



Full wwPDB X-ray Structure Validation Report ⓘ

Jun 24, 2024 – 05:56 PM EDT

PDB ID : 5OY0
Title : Structure of synechocystis photosystem I trimer at 2.5A resolution
Authors : Nelson, N.; Malavath, T.; Caspy, I.
Deposited on : 2017-09-07
Resolution : 2.50 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.37.1
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.37.1

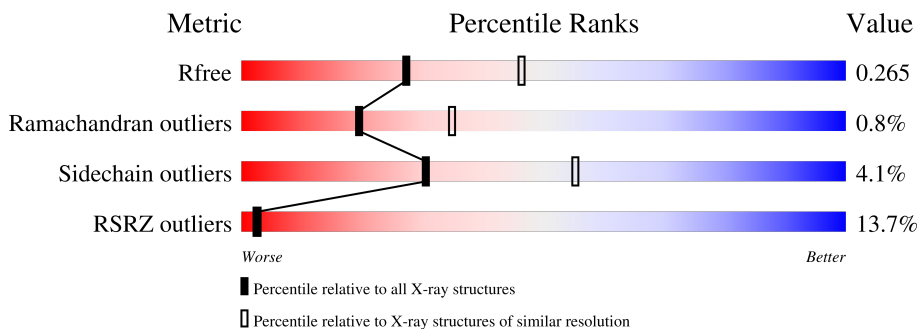
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.50 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) | Similar resolution (#Entries, resolution range(Å)) |
|-----------------------|-----------------------------|---|
| R_{free} | 130704 | 4661 (2.50-2.50) |
| Ramachandran outliers | 138981 | 5231 (2.50-2.50) |
| Sidechain outliers | 138945 | 5233 (2.50-2.50) |
| RSRZ outliers | 127900 | 4559 (2.50-2.50) |

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 1 | A | 751 | |
| 1 | a | 751 | |
| 2 | 2 | 731 | |
| 2 | B | 731 | |
| 3 | 3 | 80 | |
| 3 | C | 80 | |
| 4 | D | 141 | |

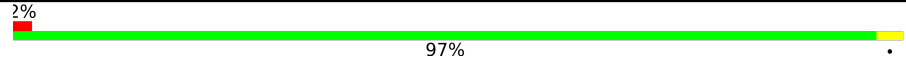
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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|-------------------------|
| 4 | d | 141 | 19% 95% .. |
| 5 | 5 | 69 | 23% 91% 9% |
| 5 | E | 69 | 14% 90% 10% |
| 6 | 6 | 143 | 43% 97% . |
| 6 | F | 143 | 5% 98% . |
| 6 | f | 143 | 19% 99% . |
| 7 | I | 40 | 92% 8% |
| 7 | i | 40 | 8% 95% 5% |
| 8 | 7 | 40 | 32% 98% . |
| 8 | J | 40 | 5% 95% 5% |
| 8 | j | 40 | 20% 98% . |
| 9 | K | 80 | 34% 78% 19% .. |
| 10 | L | 157 | 4% 95% 5% |
| 10 | l | 157 | 9% 94% 6% |
| 11 | 9 | 31 | 10% 94% .. |
| 11 | M | 31 | 3% 100% |
| 11 | m | 31 | 100% |
| 12 | b | 729 | 2% 96% . |
| 13 | c | 81 | 5% 96% . |
| 14 | e | 68 | 49% 91% 9% |
| 15 | k | 78 | 78% 77% 21% . |
| 16 | 1 | 744 | 20% 97% . |
| 17 | 4 | 140 | 19% 98% . |
| 18 | h | 38 | 18% 89% 11% |
| 19 | 8 | 79 | 54% 86% 14% |

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|--|
| 20 | 0 | 154 |  2% 97% |

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|------|-----------|----------|---------|------------------|
| 21 | CLA | 0 | 1501 | X | - | - | - |
| 21 | CLA | 0 | 1502 | X | - | - | - |
| 21 | CLA | 0 | 1503 | X | - | - | - |
| 21 | CLA | 1 | 1011 | X | - | - | - |
| 21 | CLA | 1 | 1012 | X | - | - | - |
| 21 | CLA | 1 | 1013 | X | - | - | - |
| 21 | CLA | 1 | 1102 | X | - | - | - |
| 21 | CLA | 1 | 1103 | X | - | - | - |
| 21 | CLA | 1 | 1104 | X | - | - | - |
| 21 | CLA | 1 | 1105 | X | - | - | - |
| 21 | CLA | 1 | 1106 | X | - | - | - |
| 21 | CLA | 1 | 1107 | X | - | - | - |
| 21 | CLA | 1 | 1108 | X | - | - | - |
| 21 | CLA | 1 | 1109 | X | - | - | - |
| 21 | CLA | 1 | 1110 | X | - | - | - |
| 21 | CLA | 1 | 1111 | X | - | - | - |
| 21 | CLA | 1 | 1112 | X | - | - | - |
| 21 | CLA | 1 | 1113 | X | - | - | - |
| 21 | CLA | 1 | 1114 | X | - | - | - |
| 21 | CLA | 1 | 1115 | X | - | - | - |
| 21 | CLA | 1 | 1116 | X | - | - | - |
| 21 | CLA | 1 | 1117 | X | - | - | - |
| 21 | CLA | 1 | 1118 | X | - | - | - |
| 21 | CLA | 1 | 1119 | X | - | - | - |
| 21 | CLA | 1 | 1120 | X | - | - | - |
| 21 | CLA | 1 | 1121 | X | - | - | - |
| 21 | CLA | 1 | 1122 | X | - | - | - |
| 21 | CLA | 1 | 1124 | X | - | - | - |
| 21 | CLA | 1 | 1125 | X | - | - | - |
| 21 | CLA | 1 | 1126 | X | - | - | - |
| 21 | CLA | 1 | 1127 | X | - | - | - |
| 21 | CLA | 1 | 1128 | X | - | - | - |
| 21 | CLA | 1 | 1129 | X | - | - | - |
| 21 | CLA | 1 | 1130 | X | - | - | - |
| 21 | CLA | 1 | 1131 | X | - | - | - |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|------|-----------|----------|---------|------------------|
| 21 | CLA | 1 | 1132 | X | - | - | - |
| 21 | CLA | 1 | 1133 | X | - | - | - |
| 21 | CLA | 1 | 1134 | X | - | - | - |
| 21 | CLA | 1 | 1136 | X | - | - | - |
| 21 | CLA | 1 | 1137 | X | - | - | - |
| 21 | CLA | 1 | 1138 | X | - | - | - |
| 21 | CLA | 1 | 1139 | X | - | - | - |
| 21 | CLA | 1 | 1140 | X | - | - | - |
| 21 | CLA | 1 | 1801 | X | - | - | - |
| 21 | CLA | 2 | 1021 | X | - | - | - |
| 21 | CLA | 2 | 1022 | X | - | - | - |
| 21 | CLA | 2 | 1023 | X | - | - | - |
| 21 | CLA | 2 | 1201 | X | - | - | - |
| 21 | CLA | 2 | 1202 | X | - | - | - |
| 21 | CLA | 2 | 1203 | X | - | - | - |
| 21 | CLA | 2 | 1204 | X | - | - | - |
| 21 | CLA | 2 | 1205 | X | - | - | - |
| 21 | CLA | 2 | 1206 | X | - | - | - |
| 21 | CLA | 2 | 1208 | X | - | - | - |
| 21 | CLA | 2 | 1211 | X | - | - | - |
| 21 | CLA | 2 | 1212 | X | - | - | - |
| 21 | CLA | 2 | 1213 | X | - | - | - |
| 21 | CLA | 2 | 1214 | X | - | - | - |
| 21 | CLA | 2 | 1215 | X | - | - | - |
| 21 | CLA | 2 | 1216 | X | - | - | - |
| 21 | CLA | 2 | 1217 | X | - | - | - |
| 21 | CLA | 2 | 1218 | X | - | - | - |
| 21 | CLA | 2 | 1220 | X | - | - | - |
| 21 | CLA | 2 | 1221 | X | - | - | - |
| 21 | CLA | 2 | 1222 | X | - | - | - |
| 21 | CLA | 2 | 1224 | X | - | - | - |
| 21 | CLA | 2 | 1225 | X | - | - | - |
| 21 | CLA | 2 | 1226 | X | - | - | - |
| 21 | CLA | 2 | 1227 | X | - | - | - |
| 21 | CLA | 2 | 1228 | X | - | - | - |
| 21 | CLA | 2 | 1229 | X | - | - | - |
| 21 | CLA | 2 | 1230 | X | - | - | - |
| 21 | CLA | 2 | 1231 | X | - | - | - |
| 21 | CLA | 2 | 1232 | X | - | - | - |
| 21 | CLA | 2 | 1234 | X | - | - | - |
| 21 | CLA | 2 | 1235 | X | - | - | - |
| 21 | CLA | 2 | 1236 | X | - | - | - |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|------|-----------|----------|---------|------------------|
| 21 | CLA | 2 | 1237 | X | - | - | - |
| 21 | CLA | 2 | 1238 | X | - | - | - |
| 21 | CLA | 2 | 1239 | X | - | - | - |
| 21 | CLA | 2 | 1240 | - | - | - | X |
| 21 | CLA | 6 | 1301 | X | - | - | - |
| 21 | CLA | 6 | 1302 | X | - | - | X |
| 21 | CLA | 7 | 1302 | X | - | - | - |
| 21 | CLA | 7 | 1303 | X | - | - | - |
| 21 | CLA | 8 | 1401 | X | - | - | - |
| 21 | CLA | 8 | 1402 | X | - | - | - |
| 21 | CLA | A | 1011 | X | - | - | - |
| 21 | CLA | A | 1012 | X | - | - | - |
| 21 | CLA | A | 1013 | X | - | - | - |
| 21 | CLA | A | 1102 | X | - | - | - |
| 21 | CLA | A | 1103 | X | - | - | - |
| 21 | CLA | A | 1104 | X | - | - | - |
| 21 | CLA | A | 1105 | X | - | - | - |
| 21 | CLA | A | 1106 | X | - | - | - |
| 21 | CLA | A | 1107 | X | - | - | - |
| 21 | CLA | A | 1108 | X | - | - | - |
| 21 | CLA | A | 1109 | X | - | - | - |
| 21 | CLA | A | 1110 | X | - | - | - |
| 21 | CLA | A | 1111 | X | - | - | - |
| 21 | CLA | A | 1112 | X | - | - | - |
| 21 | CLA | A | 1113 | X | - | - | - |
| 21 | CLA | A | 1114 | X | - | - | - |
| 21 | CLA | A | 1115 | X | - | - | - |
| 21 | CLA | A | 1116 | X | - | - | - |
| 21 | CLA | A | 1117 | X | - | - | - |
| 21 | CLA | A | 1118 | X | - | - | - |
| 21 | CLA | A | 1119 | X | - | - | - |
| 21 | CLA | A | 1120 | X | - | - | - |
| 21 | CLA | A | 1121 | X | - | - | - |
| 21 | CLA | A | 1122 | X | - | - | - |
| 21 | CLA | A | 1123 | X | - | - | - |
| 21 | CLA | A | 1124 | X | - | - | - |
| 21 | CLA | A | 1126 | X | - | - | - |
| 21 | CLA | A | 1127 | X | - | - | - |
| 21 | CLA | A | 1128 | X | - | - | - |
| 21 | CLA | A | 1130 | X | - | - | - |
| 21 | CLA | A | 1131 | X | - | - | - |
| 21 | CLA | A | 1132 | X | - | - | - |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|------|-----------|----------|---------|------------------|
| 21 | CLA | A | 1133 | X | - | - | - |
| 21 | CLA | A | 1134 | X | - | - | - |
| 21 | CLA | A | 1136 | X | - | - | - |
| 21 | CLA | A | 1137 | X | - | - | - |
| 21 | CLA | A | 1138 | X | - | - | - |
| 21 | CLA | A | 1139 | X | - | - | - |
| 21 | CLA | A | 1140 | X | - | - | - |
| 21 | CLA | A | 1801 | X | - | - | - |
| 21 | CLA | B | 1021 | X | - | - | - |
| 21 | CLA | B | 1022 | X | - | - | - |
| 21 | CLA | B | 1023 | X | - | - | - |
| 21 | CLA | B | 1201 | X | - | - | - |
| 21 | CLA | B | 1202 | X | - | - | - |
| 21 | CLA | B | 1203 | X | - | - | - |
| 21 | CLA | B | 1204 | X | - | - | - |
| 21 | CLA | B | 1205 | X | - | - | - |
| 21 | CLA | B | 1206 | X | - | - | - |
| 21 | CLA | B | 1208 | X | - | - | - |
| 21 | CLA | B | 1211 | X | - | - | - |
| 21 | CLA | B | 1212 | X | - | - | - |
| 21 | CLA | B | 1213 | X | - | - | - |
| 21 | CLA | B | 1214 | X | - | - | - |
| 21 | CLA | B | 1215 | X | - | - | - |
| 21 | CLA | B | 1216 | X | - | - | - |
| 21 | CLA | B | 1217 | X | - | - | - |
| 21 | CLA | B | 1218 | X | - | - | - |
| 21 | CLA | B | 1220 | X | - | - | - |
| 21 | CLA | B | 1221 | X | - | - | - |
| 21 | CLA | B | 1222 | X | - | - | - |
| 21 | CLA | B | 1223 | X | - | - | - |
| 21 | CLA | B | 1224 | X | - | - | - |
| 21 | CLA | B | 1225 | X | - | - | - |
| 21 | CLA | B | 1226 | X | - | - | - |
| 21 | CLA | B | 1228 | X | - | - | - |
| 21 | CLA | B | 1229 | X | - | - | - |
| 21 | CLA | B | 1230 | X | - | - | - |
| 21 | CLA | B | 1232 | X | - | - | - |
| 21 | CLA | B | 1235 | X | - | - | - |
| 21 | CLA | B | 1236 | X | - | - | - |
| 21 | CLA | B | 1237 | X | - | - | - |
| 21 | CLA | B | 1238 | X | - | - | - |
| 21 | CLA | B | 1239 | X | - | - | - |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|------|-----------|----------|---------|------------------|
| 21 | CLA | B | 1240 | X | - | - | - |
| 21 | CLA | F | 1301 | X | - | - | - |
| 21 | CLA | F | 1302 | X | - | - | - |
| 21 | CLA | J | 1302 | X | - | - | - |
| 21 | CLA | J | 1303 | X | - | - | - |
| 21 | CLA | K | 1401 | X | - | - | - |
| 21 | CLA | L | 1501 | X | - | - | - |
| 21 | CLA | L | 1502 | X | - | - | - |
| 21 | CLA | a | 1011 | X | - | - | - |
| 21 | CLA | a | 1012 | X | - | - | - |
| 21 | CLA | a | 1013 | X | - | - | - |
| 21 | CLA | a | 1102 | X | - | - | - |
| 21 | CLA | a | 1103 | X | - | - | - |
| 21 | CLA | a | 1104 | X | - | - | - |
| 21 | CLA | a | 1105 | X | - | - | - |
| 21 | CLA | a | 1106 | X | - | - | - |
| 21 | CLA | a | 1107 | X | - | - | - |
| 21 | CLA | a | 1108 | X | - | - | - |
| 21 | CLA | a | 1109 | X | - | - | - |
| 21 | CLA | a | 1110 | X | - | - | - |
| 21 | CLA | a | 1111 | X | - | - | - |
| 21 | CLA | a | 1112 | X | - | - | - |
| 21 | CLA | a | 1113 | X | - | - | X |
| 21 | CLA | a | 1114 | X | - | - | - |
| 21 | CLA | a | 1116 | X | - | - | - |
| 21 | CLA | a | 1117 | X | - | - | - |
| 21 | CLA | a | 1118 | X | - | - | - |
| 21 | CLA | a | 1119 | X | - | - | - |
| 21 | CLA | a | 1121 | X | - | - | - |
| 21 | CLA | a | 1122 | X | - | - | - |
| 21 | CLA | a | 1123 | X | - | - | - |
| 21 | CLA | a | 1124 | X | - | - | - |
| 21 | CLA | a | 1125 | X | - | - | - |
| 21 | CLA | a | 1126 | X | - | - | - |
| 21 | CLA | a | 1127 | X | - | - | - |
| 21 | CLA | a | 1128 | X | - | - | - |
| 21 | CLA | a | 1129 | X | - | - | - |
| 21 | CLA | a | 1130 | X | - | - | - |
| 21 | CLA | a | 1131 | X | - | - | - |
| 21 | CLA | a | 1132 | X | - | - | - |
| 21 | CLA | a | 1134 | X | - | - | - |
| 21 | CLA | a | 1135 | X | - | - | - |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|------|-----------|----------|---------|------------------|
| 21 | CLA | a | 1136 | X | - | - | - |
| 21 | CLA | a | 1137 | X | - | - | - |
| 21 | CLA | a | 1138 | X | - | - | - |
| 21 | CLA | a | 1139 | X | - | - | - |
| 21 | CLA | a | 1140 | X | - | - | - |
| 21 | CLA | a | 1801 | X | - | - | - |
| 21 | CLA | b | 1021 | X | - | - | - |
| 21 | CLA | b | 1022 | X | - | - | - |
| 21 | CLA | b | 1023 | X | - | - | - |
| 21 | CLA | b | 1201 | X | - | - | - |
| 21 | CLA | b | 1202 | X | - | - | - |
| 21 | CLA | b | 1203 | X | - | - | - |
| 21 | CLA | b | 1204 | X | - | - | - |
| 21 | CLA | b | 1205 | X | - | - | - |
| 21 | CLA | b | 1206 | X | - | - | - |
| 21 | CLA | b | 1208 | X | - | - | - |
| 21 | CLA | b | 1211 | X | - | - | - |
| 21 | CLA | b | 1213 | X | - | - | - |
| 21 | CLA | b | 1214 | X | - | - | - |
| 21 | CLA | b | 1215 | X | - | - | - |
| 21 | CLA | b | 1216 | X | - | - | - |
| 21 | CLA | b | 1217 | X | - | - | - |
| 21 | CLA | b | 1218 | X | - | - | - |
| 21 | CLA | b | 1219 | X | - | - | - |
| 21 | CLA | b | 1220 | X | - | - | - |
| 21 | CLA | b | 1221 | X | - | - | - |
| 21 | CLA | b | 1222 | X | - | - | - |
| 21 | CLA | b | 1223 | X | - | - | - |
| 21 | CLA | b | 1224 | X | - | - | - |
| 21 | CLA | b | 1225 | X | - | - | - |
| 21 | CLA | b | 1226 | X | - | - | - |
| 21 | CLA | b | 1227 | X | - | - | - |
| 21 | CLA | b | 1228 | X | - | - | - |
| 21 | CLA | b | 1229 | X | - | - | - |
| 21 | CLA | b | 1230 | X | - | - | - |
| 21 | CLA | b | 1231 | X | - | - | - |
| 21 | CLA | b | 1232 | X | - | - | - |
| 21 | CLA | b | 1234 | X | - | - | - |
| 21 | CLA | b | 1235 | X | - | - | - |
| 21 | CLA | b | 1236 | X | - | - | - |
| 21 | CLA | b | 1237 | X | - | - | - |
| 21 | CLA | b | 1238 | X | - | - | - |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|------|-----------|----------|---------|------------------|
| 21 | CLA | b | 1239 | X | - | - | - |
| 21 | CLA | b | 1240 | X | - | - | - |
| 21 | CLA | f | 1301 | X | - | - | - |
| 21 | CLA | f | 1302 | X | - | - | - |
| 21 | CLA | j | 1302 | X | - | - | - |
| 21 | CLA | j | 1303 | X | - | - | - |
| 21 | CLA | k | 1401 | X | - | - | - |
| 21 | CLA | k | 1402 | X | - | - | - |
| 21 | CLA | l | 1501 | X | - | - | - |
| 21 | CLA | l | 1502 | X | - | - | - |
| 21 | CLA | l | 1503 | X | - | - | - |
| 24 | BCR | 1 | 4001 | - | - | - | X |
| 24 | BCR | 1 | 4019 | - | - | - | X |
| 24 | BCR | 2 | 4004 | - | - | - | X |
| 24 | BCR | 2 | 4018 | - | - | - | X |
| 24 | BCR | 6 | 4016 | - | - | - | X |
| 24 | BCR | 8 | 4001 | - | - | - | X |
| 24 | BCR | A | 4019 | - | - | - | X |
| 24 | BCR | B | 4018 | - | - | - | X |
| 24 | BCR | a | 4019 | - | - | - | X |
| 24 | BCR | b | 4018 | - | - | - | X |
| 24 | BCR | k | 4001 | - | - | - | X |
| 25 | LHG | 1 | 5007 | - | - | - | X |
| 25 | LHG | 2 | 5004 | - | - | - | X |
| 25 | LHG | B | 5006 | - | - | - | X |
| 25 | LHG | F | 5002 | - | - | - | X |
| 25 | LHG | a | 5007 | - | - | - | X |
| 26 | LMG | 2 | 5005 | - | - | - | X |
| 26 | LMG | A | 5008 | - | - | - | X |
| 26 | LMG | b | 5007 | - | - | - | X |
| 31 | SQD | F | 5001 | - | - | - | X |
| 34 | ZEX | 7 | 4015 | - | - | - | X |
| 34 | ZEX | F | 4016 | X | - | - | - |
| 35 | LMT | 1 | 6001 | - | - | - | X |

2 Entry composition [i](#)

There are 38 unique types of molecules in this entry. The entry contains 77117 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 protein called Photosystem I P700 chlorophyll a apoprotein A1.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|------|------|----|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 1 | A | 751 | 5878 | 3847 | 1000 | 1003 | 28 | 0 | 0 | 0 |
| 1 | a | 751 | 5878 | 3847 | 1000 | 1003 | 28 | 0 | 0 | 0 |

- Molecule 2 is a protein called Photosystem I P700 chlorophyll a apoprotein A2.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|----|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 2 | B | 731 | 5783 | 3806 | 969 | 992 | 16 | 0 | 0 | 0 |
| 2 | 2 | 731 | 5783 | 3806 | 969 | 992 | 16 | 0 | 0 | 0 |

- Molecule 3 is a protein called Photosystem I iron-sulfur center.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|----|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 3 | C | 80 | 600 | 369 | 103 | 117 | 11 | 0 | 0 | 0 |
| 3 | 3 | 80 | 600 | 369 | 103 | 117 | 11 | 0 | 0 | 0 |

- Molecule 4 is a protein called Photosystem I reaction center subunit II.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 4 | D | 141 | 1102 | 697 | 190 | 211 | 4 | 0 | 0 | 0 |
| 4 | d | 141 | 1102 | 697 | 190 | 211 | 4 | 0 | 0 | 0 |

- Molecule 5 is a protein called Photosystem I reaction center subunit IV.

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|-----|---------|---------|-------|
| 5 | E | 69 | Total | C | N | O | 0 | 0 | 0 |
| | | | 543 | 340 | 96 | 107 | | | |
| 5 | 5 | 69 | Total | C | N | O | 0 | 0 | 0 |
| | | | 543 | 340 | 96 | 107 | | | |

- Molecule 6 is a protein called Photosystem I reaction center subunit III.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 6 | F | 143 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1113 | 718 | 185 | 205 | 5 | | | |
| 6 | f | 143 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1113 | 718 | 185 | 205 | 5 | | | |
| 6 | 6 | 143 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1113 | 718 | 185 | 205 | 5 | | | |

- Molecule 7 is a protein called Photosystem I reaction center subunit VIII.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 7 | I | 40 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 311 | 209 | 44 | 55 | 3 | | | |
| 7 | i | 40 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 311 | 209 | 44 | 55 | 3 | | | |

- Molecule 8 is a protein called Photosystem I reaction center subunit IX.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 8 | J | 40 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 319 | 215 | 47 | 54 | 3 | | | |
| 8 | j | 40 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 319 | 215 | 47 | 54 | 3 | | | |
| 8 | 7 | 40 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 319 | 215 | 47 | 54 | 3 | | | |

- Molecule 9 is a protein called Photosystem I reaction center subunit PsaK 2.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|-----|---|---------|---------|-------|
| 9 | K | 80 | Total | C | N | O | S | 0 | 1 | 0 |
| | | | 579 | 378 | 93 | 102 | 6 | | | |

- Molecule 10 is a protein called Photosystem I reaction center subunit XI.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 10 | L | 157 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1178 | 766 | 191 | 218 | 3 | | | |
| 10 | l | 157 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1178 | 766 | 191 | 218 | 3 | | | |

- Molecule 11 is a protein called Photosystem I reaction center subunit XII.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 11 | M | 31 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 238 | 159 | 36 | 42 | 1 | | | |
| 11 | m | 31 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 238 | 159 | 36 | 42 | 1 | | | |
| 11 | 9 | 31 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 238 | 159 | 36 | 42 | 1 | | | |

- Molecule 12 is a protein called Photosystem I P700 chlorophyll a apoprotein A2.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|----|---------|---------|-------|
| 12 | b | 729 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 5770 | 3798 | 967 | 990 | 15 | | | |

- Molecule 13 is a protein called Photosystem I iron-sulfur center.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|----|---------|---------|-------|
| 13 | c | 81 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 608 | 374 | 104 | 118 | 12 | | | |

- Molecule 14 is a protein called Photosystem I reaction center subunit IV.

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|-----|---------|---------|-------|
| 14 | e | 68 | Total | C | N | O | 0 | 0 | 0 |
| | | | 533 | 335 | 94 | 104 | | | |

- Molecule 15 is a protein called Photosystem I reaction center subunit PsaK 2.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 15 | k | 78 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 559 | 366 | 90 | 98 | 5 | | | |

- Molecule 16 is a protein called Photosystem I P700 chlorophyll a apoprotein A1.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|----|---------|---------|-------|
| 16 | 1 | 744 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 5826 | 3814 | 993 | 992 | 27 | | | |

- Molecule 17 is a protein called Photosystem I reaction center subunit II.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 17 | 4 | 140 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1094 | 692 | 189 | 210 | 3 | | | |

- Molecule 18 is a protein called Photosystem I reaction center subunit VIII.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 18 | h | 38 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 298 | 202 | 42 | 51 | 3 | | | |

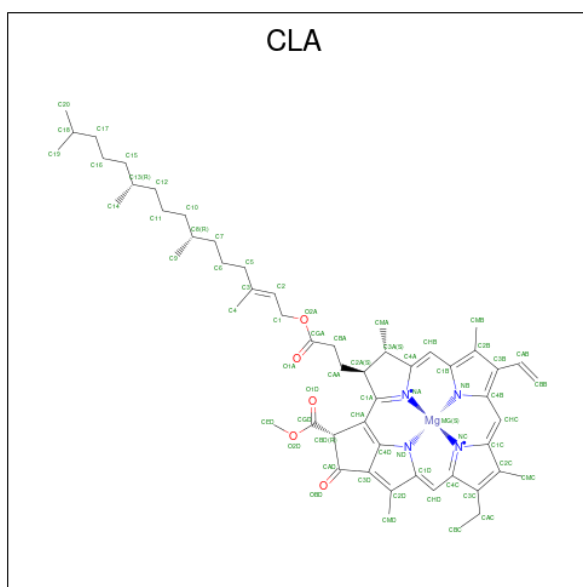
- Molecule 19 is a protein called Photosystem I reaction center subunit PsaK 2.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|-----|---|---------|---------|-------|
| 19 | 8 | 79 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 565 | 369 | 91 | 100 | 5 | | | |

- Molecule 20 is a protein called Photosystem I reaction center subunit XI.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 20 | 0 | 154 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1156 | 753 | 188 | 213 | 2 | | | |

- Molecule 21 is CHLOROPHYLL A (three-letter code: CLA) (formula: C₅₅H₇₂MgN₄O₅).



| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | |
|-----|-------|----------|-------|----|----|---|---------|---------|---|
| 21 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 53 | 43 | 1 | 4 | 5 | | |
| 21 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |

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| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|---------|
| | | | Total | C | Mg | N | O | | |
| 21 | A | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | A | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | A | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | A | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | A | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | A | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | A | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | A | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | A | 1 | 60 | 50 | 1 | 4 | 5 | 0 | 0 |
| 21 | A | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | A | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | A | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | A | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | A | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | A | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | A | 1 | 58 | 48 | 1 | 4 | 5 | 0 | 0 |
| 21 | A | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | A | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | A | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | A | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | A | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | A | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |

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| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|---------|
| | | | Total | C | Mg | N | O | | |
| 21 | A | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | A | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | A | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | A | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | A | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | A | 1 | 60 | 50 | 1 | 4 | 5 | 0 | 0 |
| 21 | A | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | A | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | A | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | B | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | B | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | B | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | B | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | B | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | B | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | B | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | B | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | B | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | B | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | B | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | B | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |

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| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|---------|
| | | | Total | C | Mg | N | O | | |
| 21 | B | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | B | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | B | 1 | 55 | 45 | 1 | 4 | 5 | 0 | 0 |
| 21 | B | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | B | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | B | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | B | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | B | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | B | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | B | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | B | 1 | 57 | 47 | 1 | 4 | 5 | 0 | 0 |
| 21 | B | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | B | 1 | 55 | 45 | 1 | 4 | 5 | 0 | 0 |
| 21 | B | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | B | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | B | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | B | 1 | 55 | 45 | 1 | 4 | 5 | 0 | 0 |
| 21 | B | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | B | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | B | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |

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| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|---------|
| 21 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | | |
| 21 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | | |
| 21 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | F | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | F | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | J | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | J | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | K | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | K | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | L | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | L | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | L | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |

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| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|---------|
| | | | Total | C | Mg | N | O | | |
| 21 | a | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | a | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | a | 1 | 58 | 48 | 1 | 4 | 5 | 0 | 0 |
| 21 | a | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | a | 1 | 50 | 40 | 1 | 4 | 5 | 0 | 0 |
| 21 | a | 1 | 57 | 47 | 1 | 4 | 5 | 0 | 0 |
| 21 | a | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | a | 1 | 59 | 49 | 1 | 4 | 5 | 0 | 0 |
| 21 | a | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | a | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | a | 1 | 50 | 40 | 1 | 4 | 5 | 0 | 0 |
| 21 | a | 1 | 52 | 42 | 1 | 4 | 5 | 0 | 0 |
| 21 | a | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | a | 1 | 60 | 50 | 1 | 4 | 5 | 0 | 0 |
| 21 | a | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | a | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | a | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | a | 1 | 55 | 45 | 1 | 4 | 5 | 0 | 0 |
| 21 | a | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | a | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | a | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |

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| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|---------|
| 21 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | | |
| 21 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 52 | 42 | 1 | 4 | 5 | | |
| 21 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 49 | 39 | 1 | 4 | 5 | | |
| 21 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | | |
| 21 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | | |
| 21 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | b | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |

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| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|---------|
| | | | Total | C | Mg | N | O | | |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 60 | 50 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 51 | 41 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 60 | 50 | 1 | 4 | 5 | 0 | 0 |

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| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|---------|
| | | | Total | C | Mg | N | O | | |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 53 | 43 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | f | 1 | 50 | 40 | 1 | 4 | 5 | 0 | 0 |

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| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|---------|
| | | | Total | C | Mg | N | O | | |
| 21 | f | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | j | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | j | 1 | 55 | 45 | 1 | 4 | 5 | 0 | 0 |
| 21 | k | 1 | 50 | 40 | 1 | 4 | 5 | 0 | 0 |
| 21 | k | 1 | 49 | 39 | 1 | 4 | 5 | 0 | 0 |
| 21 | l | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | l | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | l | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | l | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | l | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | l | 1 | 55 | 45 | 1 | 4 | 5 | 0 | 0 |
| 21 | l | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | l | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | l | 1 | 50 | 40 | 1 | 4 | 5 | 0 | 0 |
| 21 | l | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | l | 1 | 51 | 41 | 1 | 4 | 5 | 0 | 0 |
| 21 | l | 1 | 47 | 37 | 1 | 4 | 5 | 0 | 0 |
| 21 | l | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | l | 1 | 50 | 40 | 1 | 4 | 5 | 0 | 0 |
| 21 | l | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | l | 1 | 50 | 40 | 1 | 4 | 5 | 0 | 0 |

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| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | |
|-----|-------|----------|-------|----|----|---|---------|---------|---|
| 21 | 1 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 44 | 35 | 1 | 4 | 4 | | |
| 21 | 1 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | | |
| 21 | 1 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | 1 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | 1 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | 1 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | 1 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | 1 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | | |
| 21 | 1 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 60 | 50 | 1 | 4 | 5 | | |
| 21 | 1 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | 1 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 56 | 46 | 1 | 4 | 5 | | |
| 21 | 1 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | 1 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | 1 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | | |
| 21 | 1 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | 1 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | 1 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | 1 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |

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| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|---------|
| | | | Total | C | Mg | N | O | | |
| 21 | 1 | 1 | 52 | 42 | 1 | 4 | 5 | 0 | 0 |
| 21 | 1 | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | 1 | 1 | 51 | 41 | 1 | 4 | 5 | 0 | 0 |
| 21 | 1 | 1 | 60 | 50 | 1 | 4 | 5 | 0 | 0 |
| 21 | 1 | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | 1 | 1 | 56 | 46 | 1 | 4 | 5 | 0 | 0 |
| 21 | 1 | 1 | 55 | 45 | 1 | 4 | 5 | 0 | 0 |
| 21 | 1 | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | 1 | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | 1 | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | 2 | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | 2 | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | 2 | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | 2 | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | 2 | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | 2 | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | 2 | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | 2 | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | 2 | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | 2 | 1 | 56 | 46 | 1 | 4 | 5 | 0 | 0 |

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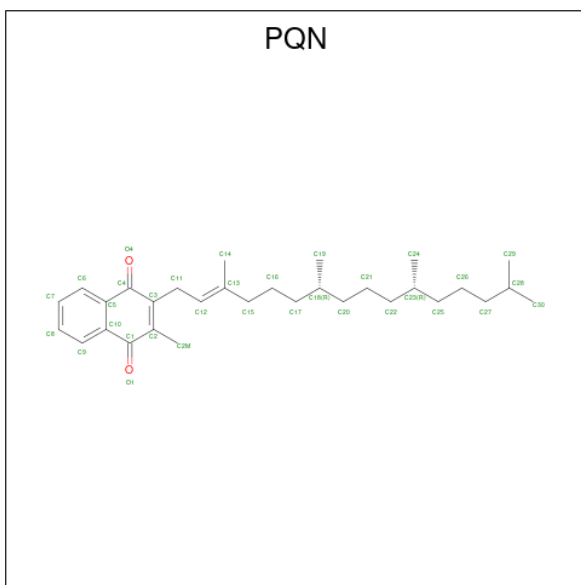
| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|---------|
| 21 | 2 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 60 | 50 | 1 | 4 | 5 | | |
| 21 | 2 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | | |
| 21 | 2 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | 2 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | | |
| 21 | 2 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 41 | 33 | 1 | 4 | 3 | | |
| 21 | 2 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | | |
| 21 | 2 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 59 | 49 | 1 | 4 | 5 | | |
| 21 | 2 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 60 | 50 | 1 | 4 | 5 | | |
| 21 | 2 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | | |
| 21 | 2 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 52 | 42 | 1 | 4 | 5 | | |
| 21 | 2 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | 2 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 53 | 43 | 1 | 4 | 5 | | |
| 21 | 2 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | | |
| 21 | 2 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | 2 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | | |
| 21 | 2 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | | |
| 21 | 2 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | | |
| 21 | 2 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 21 | 2 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | | |
| 21 | 2 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | | |
| 21 | 2 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | | |

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| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|---------|
| | | | Total | C | Mg | N | O | | |
| 21 | 2 | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | 2 | 1 | 46 | 36 | 1 | 4 | 5 | 0 | 0 |
| 21 | 2 | 1 | 45 | 35 | 1 | 4 | 5 | 0 | 0 |
| 21 | 2 | 1 | 50 | 40 | 1 | 4 | 5 | 0 | 0 |
| 21 | 2 | 1 | 53 | 43 | 1 | 4 | 5 | 0 | 0 |
| 21 | 2 | 1 | 50 | 40 | 1 | 4 | 5 | 0 | 0 |
| 21 | 2 | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | 2 | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | 2 | 1 | 41 | 33 | 1 | 4 | 3 | 0 | 0 |
| 21 | 2 | 1 | 47 | 37 | 1 | 4 | 5 | 0 | 0 |
| 21 | 6 | 1 | 47 | 37 | 1 | 4 | 5 | 0 | 0 |
| 21 | 6 | 1 | 43 | 35 | 1 | 4 | 3 | 0 | 0 |
| 21 | 7 | 1 | 41 | 33 | 1 | 4 | 3 | 0 | 0 |
| 21 | 7 | 1 | 41 | 33 | 1 | 4 | 3 | 0 | 0 |
| 21 | 8 | 1 | 45 | 35 | 1 | 4 | 5 | 0 | 0 |
| 21 | 8 | 1 | 46 | 36 | 1 | 4 | 5 | 0 | 0 |
| 21 | 0 | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | 0 | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |
| 21 | 0 | 1 | 65 | 55 | 1 | 4 | 5 | 0 | 0 |

- Molecule 22 is PHYLLOQUINONE (three-letter code: PQN) (formula: $C_{31}H_{46}O_2$).



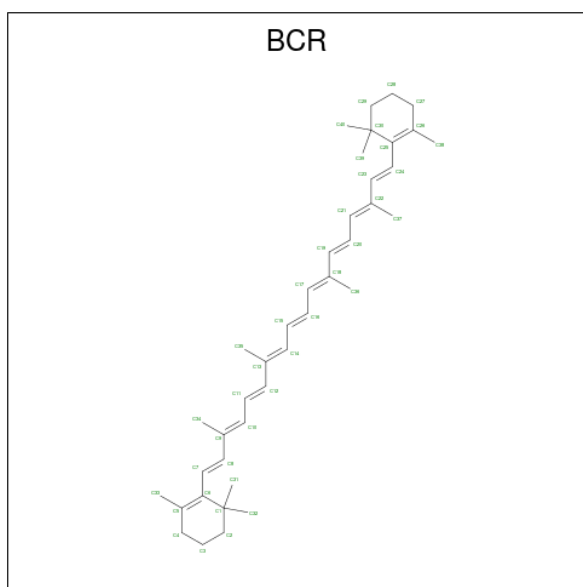
| Mol | Chain | Residues | Atoms | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|---|---------|---------|
| 22 | A | 1 | Total | C | O | 0 | 0 |
| | | | 33 | 31 | 2 | | |
| 22 | B | 1 | Total | C | O | 0 | 0 |
| | | | 33 | 31 | 2 | | |
| 22 | a | 1 | Total | C | O | 0 | 0 |
| | | | 33 | 31 | 2 | | |
| 22 | b | 1 | Total | C | O | 0 | 0 |
| | | | 33 | 31 | 2 | | |
| 22 | 1 | 1 | Total | C | O | 0 | 0 |
| | | | 33 | 31 | 2 | | |
| 22 | 2 | 1 | Total | C | O | 0 | 0 |
| | | | 33 | 31 | 2 | | |

- Molecule 23 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe₄S₄).



| Mol | Chain | Residues | Atoms | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|---|---------|---------|
| 23 | A | 1 | Total | Fe | S | 0 | 0 |
| | | | 8 | 4 | 4 | | |
| 23 | C | 1 | Total | Fe | S | 0 | 0 |
| | | | 8 | 4 | 4 | | |
| 23 | C | 1 | Total | Fe | S | 0 | 0 |
| | | | 8 | 4 | 4 | | |
| 23 | a | 1 | Total | Fe | S | 0 | 0 |
| | | | 8 | 4 | 4 | | |
| 23 | c | 1 | Total | Fe | S | 0 | 0 |
| | | | 8 | 4 | 4 | | |
| 23 | c | 1 | Total | Fe | S | 0 | 0 |
| | | | 8 | 4 | 4 | | |
| 23 | 1 | 1 | Total | Fe | S | 0 | 0 |
| | | | 8 | 4 | 4 | | |
| 23 | 3 | 1 | Total | Fe | S | 0 | 0 |
| | | | 8 | 4 | 4 | | |
| 23 | 3 | 1 | Total | Fe | S | 0 | 0 |
| | | | 8 | 4 | 4 | | |

- Molecule 24 is BETA-CAROTENE (three-letter code: BCR) (formula: C₄₀H₅₆).



| Mol | Chain | Residues | Atoms | ZeroOcc | AltConf |
|-----|-------|----------|------------------|---------|---------|
| 24 | A | 1 | Total C 40 40 | 0 | 0 |
| 24 | A | 1 | Total C 40 40 | 0 | 0 |
| 24 | A | 1 | Total C 40 40 | 0 | 0 |
| 24 | A | 1 | Total C 40 40 | 0 | 0 |
| 24 | A | 1 | Total C 40 40 | 0 | 0 |
| 24 | A | 1 | Total C 40 40 | 0 | 0 |
| 24 | A | 1 | Total C 40 40 | 0 | 0 |
| 24 | A | 1 | Total C 40 40 | 0 | 0 |
| 24 | B | 1 | Total C 40 40 | 0 | 0 |
| 24 | B | 1 | Total C 40 40 | 0 | 0 |
| 24 | B | 1 | Total C 40 40 | 0 | 0 |
| 24 | B | 1 | Total C 40 40 | 0 | 0 |
| 24 | B | 1 | Total C 40 40 | 0 | 0 |
| 24 | B | 1 | Total C 40 40 | 0 | 0 |
| 24 | I | 1 | Total C 40 40 | 0 | 0 |

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| Mol | Chain | Residues | Atoms | ZeroOcc | AltConf |
|-----|-------|----------|------------------|---------|---------|
| 24 | J | 1 | Total C 40 40 | 0 | 0 |
| 24 | K | 1 | Total C 40 40 | 0 | 0 |
| 24 | L | 1 | Total C 40 40 | 0 | 0 |
| 24 | L | 1 | Total C 40 40 | 0 | 0 |
| 24 | a | 1 | Total C 40 40 | 0 | 0 |
| 24 | a | 1 | Total C 40 40 | 0 | 0 |
| 24 | a | 1 | Total C 40 40 | 0 | 0 |
| 24 | a | 1 | Total C 40 40 | 0 | 0 |
| 24 | a | 1 | Total C 40 40 | 0 | 0 |
| 24 | a | 1 | Total C 40 40 | 0 | 0 |
| 24 | a | 1 | Total C 40 40 | 0 | 0 |
| 24 | a | 1 | Total C 40 40 | 0 | 0 |
| 24 | b | 1 | Total C 40 40 | 0 | 0 |
| 24 | b | 1 | Total C 40 40 | 0 | 0 |
| 24 | b | 1 | Total C 40 40 | 0 | 0 |
| 24 | b | 1 | Total C 40 40 | 0 | 0 |
| 24 | b | 1 | Total C 40 40 | 0 | 0 |
| 24 | b | 1 | Total C 40 40 | 0 | 0 |
| 24 | f | 1 | Total C 40 40 | 0 | 0 |
| 24 | i | 1 | Total C 40 40 | 0 | 0 |
| 24 | j | 1 | Total C 40 40 | 0 | 0 |
| 24 | k | 1 | Total C 40 40 | 0 | 0 |

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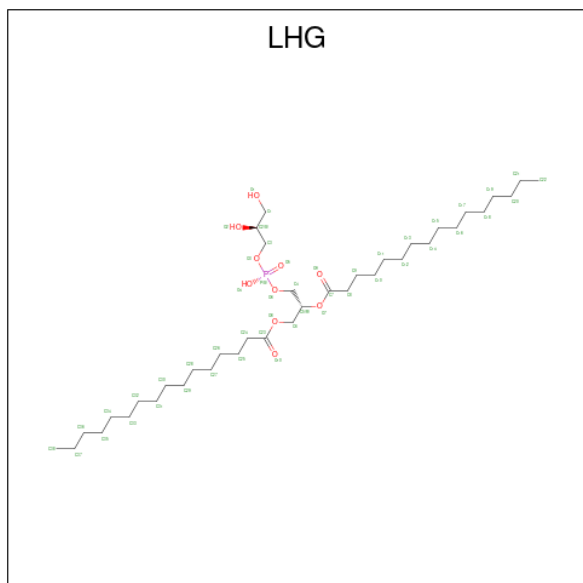
| Mol | Chain | Residues | Atoms | ZeroOcc | AltConf |
|-----|-------|----------|------------------|---------|---------|
| 24 | 1 | 1 | Total C 40 40 | 0 | 0 |
| 24 | 1 | 1 | Total C 40 40 | 0 | 0 |
| 24 | 1 | 1 | Total C 40 40 | 0 | 0 |
| 24 | 1 | 1 | Total C 40 40 | 0 | 0 |
| 24 | 1 | 1 | Total C 40 40 | 0 | 0 |
| 24 | 1 | 1 | Total C 40 40 | 0 | 0 |
| 24 | 1 | 1 | Total C 40 40 | 0 | 0 |
| 24 | 1 | 1 | Total C 40 40 | 0 | 0 |
| 24 | 1 | 1 | Total C 40 40 | 0 | 0 |
| 24 | 2 | 1 | Total C 40 40 | 0 | 0 |
| 24 | 2 | 1 | Total C 40 40 | 0 | 0 |
| 24 | 2 | 1 | Total C 40 40 | 0 | 0 |
| 24 | 2 | 1 | Total C 40 40 | 0 | 0 |
| 24 | 2 | 1 | Total C 40 40 | 0 | 0 |
| 24 | 2 | 1 | Total C 40 40 | 0 | 0 |
| 24 | 2 | 1 | Total C 40 40 | 0 | 0 |
| 24 | 6 | 1 | Total C 40 40 | 0 | 0 |
| 24 | h | 1 | Total C 40 40 | 0 | 0 |
| 24 | 7 | 1 | Total C 40 40 | 0 | 0 |
| 24 | 8 | 1 | Total C 40 40 | 0 | 0 |
| 24 | 0 | 1 | Total C 40 40 | 0 | 0 |

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| Mol | Chain | Residues | Atoms | ZeroOcc | AltConf |
|-----|-------|----------|------------------|---------|---------|
| 24 | 0 | 1 | Total C 40 40 | 0 | 0 |
| 24 | 9 | 1 | Total C 40 40 | 0 | 0 |

- Molecule 25 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (three-letter code: LHG) (formula: $C_{38}H_{75}O_{10}P$).



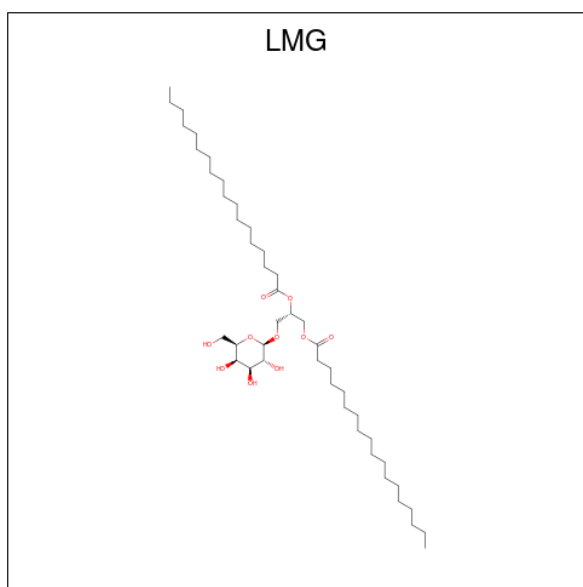
| Mol | Chain | Residues | Atoms | ZeroOcc | AltConf |
|-----|-------|----------|---------------------------|---------|---------|
| 25 | A | 1 | Total C O P 49 38 10 1 | 0 | 0 |
| 25 | A | 1 | Total C O P 49 38 10 1 | 0 | 0 |
| 25 | A | 1 | Total C O P 49 38 10 1 | 0 | 0 |
| 25 | A | 1 | Total C O P 49 38 10 1 | 0 | 0 |
| 25 | A | 1 | Total C O P 49 38 10 1 | 0 | 0 |
| 25 | B | 1 | Total C O P 49 38 10 1 | 0 | 0 |
| 25 | B | 1 | Total C O P 49 38 10 1 | 0 | 0 |
| 25 | F | 1 | Total C O P 49 38 10 1 | 0 | 0 |
| 25 | L | 1 | Total C O P 49 38 10 1 | 0 | 0 |

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| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---|---------|---------|
| | | | Total | C | O | P | | |
| 25 | M | 1 | 49 | 38 | 10 | 1 | 0 | 0 |
| 25 | a | 1 | 49 | 38 | 10 | 1 | 0 | 0 |
| 25 | a | 1 | 49 | 38 | 10 | 1 | 0 | 0 |
| 25 | a | 1 | 49 | 38 | 10 | 1 | 0 | 0 |
| 25 | a | 1 | 49 | 38 | 10 | 1 | 0 | 0 |
| 25 | b | 1 | 49 | 38 | 10 | 1 | 0 | 0 |
| 25 | l | 1 | 49 | 38 | 10 | 1 | 0 | 0 |
| 25 | l | 1 | 49 | 38 | 10 | 1 | 0 | 0 |
| 25 | l | 1 | 49 | 38 | 10 | 1 | 0 | 0 |
| 25 | l | 1 | 49 | 38 | 10 | 1 | 0 | 0 |
| 25 | l | 1 | 49 | 38 | 10 | 1 | 0 | 0 |
| 25 | l | 1 | 49 | 38 | 10 | 1 | 0 | 0 |
| 25 | l | 1 | 49 | 38 | 10 | 1 | 0 | 0 |
| 25 | l | 1 | 49 | 38 | 10 | 1 | 0 | 0 |
| 25 | l | 1 | 49 | 38 | 10 | 1 | 0 | 0 |
| 25 | l | 1 | 49 | 38 | 10 | 1 | 0 | 0 |
| 25 | l | 1 | 49 | 38 | 10 | 1 | 0 | 0 |
| 25 | 2 | 1 | 49 | 38 | 10 | 1 | 0 | 0 |
| 25 | 6 | 1 | 12 | 5 | 6 | 1 | 0 | 0 |
| 25 | 0 | 1 | 49 | 38 | 10 | 1 | 0 | 0 |
| 25 | 0 | 1 | 49 | 38 | 10 | 1 | 0 | 0 |

- Molecule 26 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (three-letter code: LMG) (formula: $C_{45}H_{86}O_{10}$).



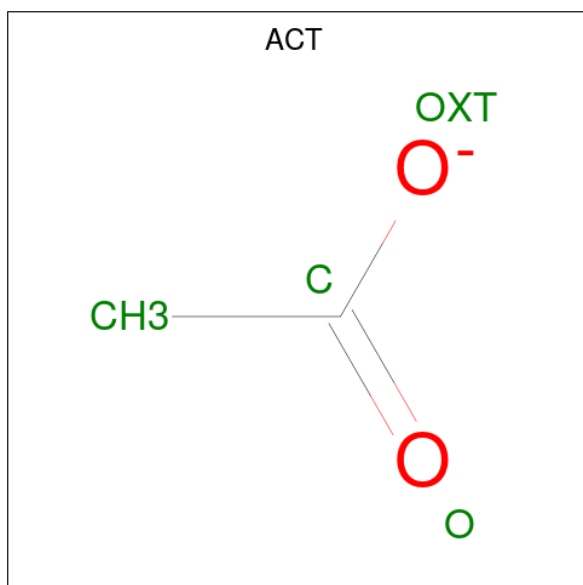
| Mol | Chain | Residues | Atoms | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---------|---------|
| 26 | A | 1 | Total | C | O | 0 | 0 |
| | | | 50 | 40 | 10 | | |
| 26 | A | 1 | Total | C | O | 0 | 0 |
| | | | 48 | 38 | 10 | | |
| 26 | A | 1 | Total | C | O | 0 | 0 |
| | | | 55 | 45 | 10 | | |
| 26 | B | 1 | Total | C | O | 0 | 0 |
| | | | 55 | 45 | 10 | | |
| 26 | B | 1 | Total | C | O | 0 | 0 |
| | | | 55 | 45 | 10 | | |
| 26 | K | 1 | Total | C | O | 0 | 0 |
| | | | 55 | 45 | 10 | | |
| 26 | a | 1 | Total | C | O | 0 | 0 |
| | | | 50 | 40 | 10 | | |
| 26 | a | 1 | Total | C | O | 0 | 0 |
| | | | 55 | 45 | 10 | | |
| 26 | b | 1 | Total | C | O | 0 | 0 |
| | | | 55 | 45 | 10 | | |
| 26 | b | 1 | Total | C | O | 0 | 0 |
| | | | 55 | 45 | 10 | | |
| 26 | b | 1 | Total | C | O | 0 | 0 |
| | | | 55 | 45 | 10 | | |
| 26 | 1 | 1 | Total | C | O | 0 | 0 |
| | | | 50 | 40 | 10 | | |
| 26 | 1 | 1 | Total | C | O | 0 | 0 |
| | | | 55 | 45 | 10 | | |
| 26 | 2 | 1 | Total | C | O | 0 | 0 |
| | | | 55 | 45 | 10 | | |

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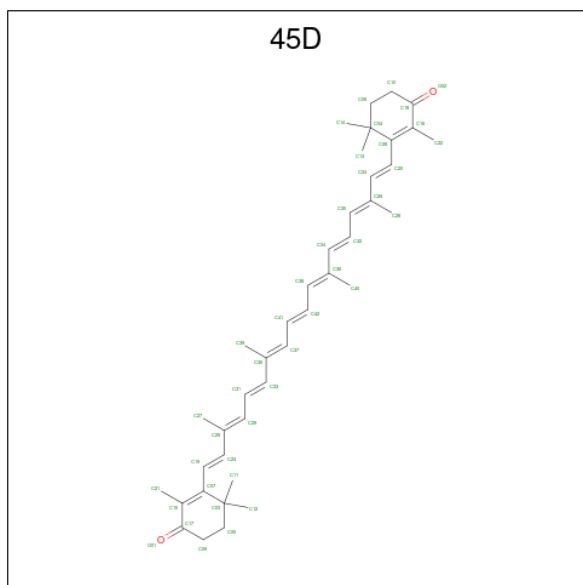
| Mol | Chain | Residues | Atoms | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---------|---------|
| 26 | 2 | 1 | Total | C | O | 0 | 0 |
| | | | 55 | 45 | 10 | | |
| 26 | 0 | 1 | Total | C | O | 0 | 0 |
| | | | 55 | 45 | 10 | | |

- Molecule 27 is ACETATE ION (three-letter code: ACT) (formula: C₂H₃O₂).



| Mol | Chain | Residues | Atoms | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|---|---------|---------|
| 27 | A | 1 | Total | C | O | 0 | 0 |
| | | | 4 | 2 | 2 | | |
| 27 | B | 1 | Total | C | O | 0 | 0 |
| | | | 4 | 2 | 2 | | |
| 27 | B | 1 | Total | C | O | 0 | 0 |
| | | | 4 | 2 | 2 | | |
| 27 | a | 1 | Total | C | O | 0 | 0 |
| | | | 4 | 2 | 2 | | |

- Molecule 28 is beta,beta-carotene-4,4'-dione (three-letter code: 45D) (formula: C₄₀H₅₂O₂).

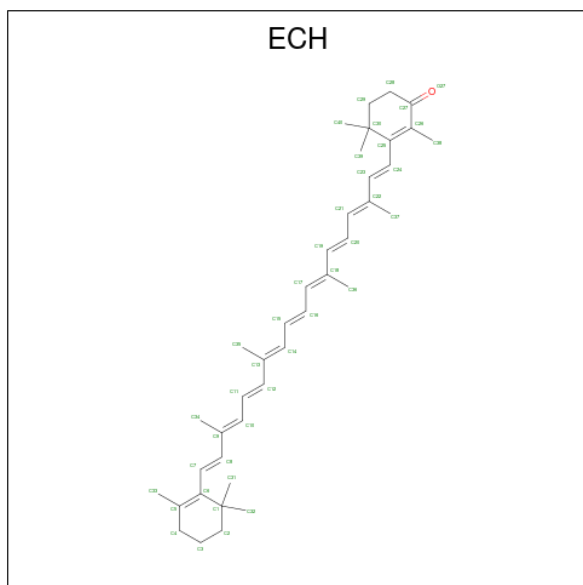


| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|-------|------|---------|---------|
| 28 | B | 1 | Total | C O | 0 | 0 |
| | | | 42 | 40 2 | | |
| 28 | h | 1 | Total | C O | 0 | 0 |
| | | | 42 | 40 2 | | |

- Molecule 29 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

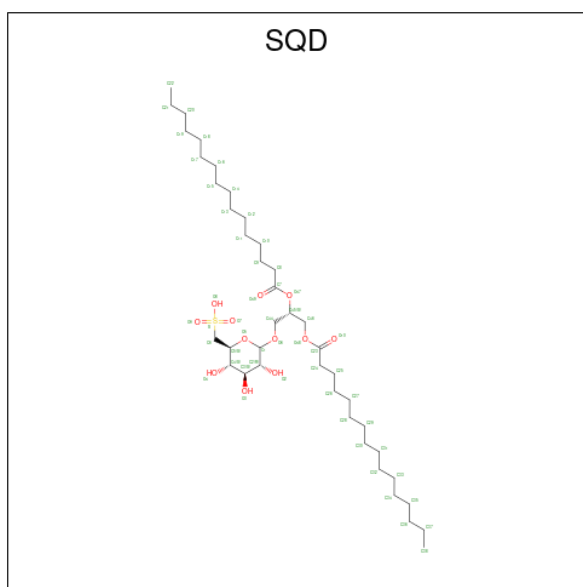
| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|---------|---------|
| 29 | B | 1 | Total | Cl | 0 | 0 |
| | | | 1 | 1 | | |
| 29 | b | 1 | Total | Cl | 0 | 0 |
| | | | 1 | 1 | | |
| 29 | 2 | 1 | Total | Cl | 0 | 0 |
| | | | 1 | 1 | | |

- Molecule 30 is beta,beta-caroten-4-one (three-letter code: ECH) (formula: C₄₀H₅₄O).



| Mol | Chain | Residues | Atoms | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|---|---------|---------|
| 30 | B | 1 | Total | C | O | 0 | 0 |
| | | | 41 | 40 | 1 | | |
| 30 | M | 1 | Total | C | O | 0 | 0 |
| | | | 41 | 40 | 1 | | |
| 30 | b | 1 | Total | C | O | 0 | 0 |
| | | | 41 | 40 | 1 | | |
| 30 | b | 1 | Total | C | O | 0 | 0 |
| | | | 41 | 40 | 1 | | |
| 30 | i | 1 | Total | C | O | 0 | 0 |
| | | | 41 | 40 | 1 | | |
| 30 | m | 1 | Total | C | O | 0 | 0 |
| | | | 41 | 40 | 1 | | |
| 30 | 2 | 1 | Total | C | O | 0 | 0 |
| | | | 41 | 40 | 1 | | |

- Molecule 31 is 1,2-DI-O-ACYL-3-O-[6-DEOXY-6-SULFO-ALPHA-D-GLUCOPYRANOSYL]-SN-GLYCEROL (three-letter code: SQD) (formula: C₄₁H₇₈O₁₂S).



| Mol | Chain | Residues | Atoms | | | ZeroOcc | AltConf | |
|-----|-------|----------|-------|----|----|---------|---------|---|
| | | | Total | C | O | | | S |
| 31 | B | 1 | 54 | 41 | 12 | 1 | 0 | 0 |
| 31 | F | 1 | 54 | 41 | 12 | 1 | 0 | 0 |
| 31 | L | 1 | 51 | 38 | 12 | 1 | 0 | 0 |
| 31 | L | 1 | 54 | 41 | 12 | 1 | 0 | 0 |
| 31 | b | 1 | 54 | 41 | 12 | 1 | 0 | 0 |
| 31 | f | 1 | 54 | 41 | 12 | 1 | 0 | 0 |
| 31 | 0 | 1 | 54 | 41 | 12 | 1 | 0 | 0 |

- Molecule 32 is CALCIUM ION (three-letter code: CA) (formula: Ca).

| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|---------|---------|
| | | | Total | Ca | | |
| 32 | B | 1 | 1 | 1 | 0 | 0 |
| 32 | L | 1 | 1 | 1 | 0 | 0 |
| 32 | b | 1 | 1 | 1 | 0 | 0 |
| 32 | 1 | 1 | 1 | 1 | 0 | 0 |
| 32 | 2 | 1 | 1 | 1 | 0 | 0 |

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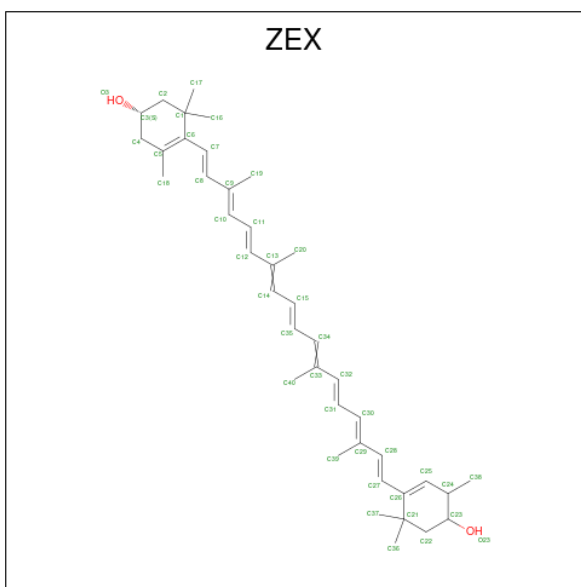
Continued from previous page...

| Mol | Chain | Residues | Atoms | ZeroOcc | AltConf |
|-----|-------|----------|-----------------|---------|---------|
| 32 | 0 | 1 | Total Ca 1 1 | 0 | 0 |

- Molecule 33 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

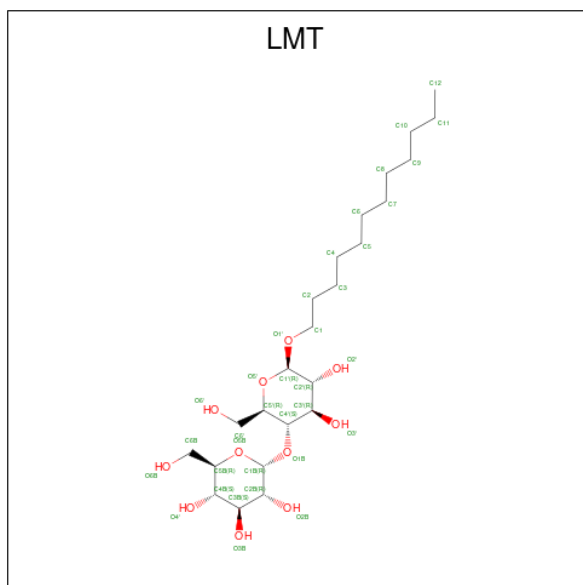
| Mol | Chain | Residues | Atoms | ZeroOcc | AltConf |
|-----|-------|----------|-----------------|---------|---------|
| 33 | B | 1 | Total Mg 1 1 | 0 | 0 |
| 33 | b | 1 | Total Mg 1 1 | 0 | 0 |

- Molecule 34 is (1R,2S)-4-{(1E,3E,5E,7E,9E,11E,13E,15E,17E)-18-[(4S)-4-hydroxy-2,6,6-trimethylcyclohex-1-en-1-yl]-3,7,12,16-tetramethyloctadeca-1,3,5,7,9,11,13,15,17-nonaen-1-yl}-2,5,5-trimethylcyclohex-3-en-1-ol (three-letter code: ZEX) (formula: C₄₀H₅₆O₂).



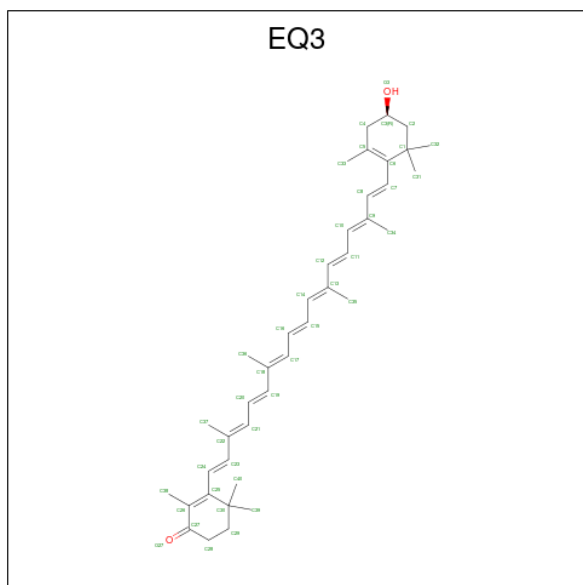
| Mol | Chain | Residues | Atoms | ZeroOcc | AltConf |
|-----|-------|----------|----------------------|---------|---------|
| 34 | F | 1 | Total C O 42 40 2 | 0 | 0 |
| 34 | J | 1 | Total C O 42 40 2 | 0 | 0 |
| 34 | j | 1 | Total C O 42 40 2 | 0 | 0 |
| 34 | 7 | 1 | Total C O 42 40 2 | 0 | 0 |

- Molecule 35 is DODECYL-BETA-D-MALTOSE (three-letter code: LMT) (formula: C₂₄H₄₆O₁₁).



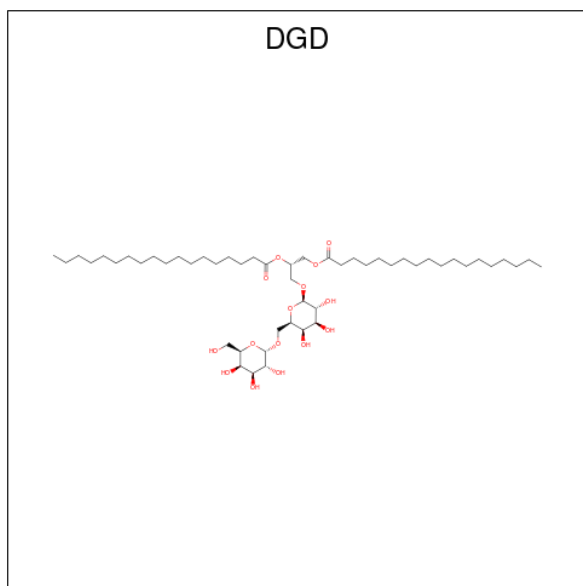
| Mol | Chain | Residues | Atoms | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---------|---------|
| 35 | F | 1 | Total | C | O | 0 | 0 |
| | | | 35 | 24 | 11 | | |
| 35 | L | 1 | Total | C | O | 0 | 0 |
| | | | 35 | 24 | 11 | | |
| 35 | 1 | 1 | Total | C | O | 0 | 0 |
| | | | 35 | 24 | 11 | | |
| 35 | 1 | 1 | Total | C | O | 0 | 0 |
| | | | 35 | 24 | 11 | | |
| 35 | 0 | 1 | Total | C | O | 0 | 0 |
| | | | 35 | 24 | 11 | | |

- Molecule 36 is (3'R)-3'-hydroxy-beta,beta-caroten-4-one (three-letter code: EQ3) (formula: $C_{40}H_{54}O_2$).



| Mol | Chain | Residues | Atoms | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|---|---------|---------|
| 36 | I | 1 | Total | C | O | 0 | 0 |
| | | | 42 | 40 | 2 | | |

- Molecule 37 is DIGALACTOSYL DIACYL GLYCEROL (DGDG) (three-letter code: DGD) (formula: $C_{51}H_{96}O_{15}$).



| Mol | Chain | Residues | Atoms | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---------|---------|
| 37 | L | 1 | Total | C | O | 0 | 0 |
| | | | 66 | 51 | 15 | | |

- Molecule 38 is water.

| Mol | Chain | Residues | Atoms | ZeroOcc | AltConf |
|-----|-------|----------|--------------------|---------|---------|
| 38 | A | 186 | Total O 186 186 | 0 | 0 |
| 38 | B | 114 | Total O 114 114 | 0 | 0 |
| 38 | C | 48 | Total O 48 48 | 0 | 0 |
| 38 | D | 57 | Total O 57 57 | 0 | 0 |
| 38 | E | 16 | Total O 16 16 | 0 | 0 |
| 38 | F | 8 | Total O 8 8 | 0 | 0 |
| 38 | I | 6 | Total O 6 6 | 0 | 0 |
| 38 | J | 4 | Total O 4 4 | 0 | 0 |
| 38 | K | 9 | Total O 9 9 | 0 | 0 |
| 38 | L | 46 | Total O 46 46 | 0 | 0 |
| 38 | M | 3 | Total O 3 3 | 0 | 0 |
| 38 | a | 39 | Total O 39 39 | 0 | 0 |
| 38 | b | 141 | Total O 141 141 | 0 | 0 |
| 38 | c | 13 | Total O 13 13 | 0 | 0 |
| 38 | d | 15 | Total O 15 15 | 0 | 0 |
| 38 | e | 4 | Total O 4 4 | 0 | 0 |
| 38 | f | 10 | Total O 10 10 | 0 | 0 |
| 38 | i | 7 | Total O 7 7 | 0 | 0 |
| 38 | j | 5 | Total O 5 5 | 0 | 0 |
| 38 | l | 20 | Total O 20 20 | 0 | 0 |
| 38 | m | 8 | Total O 8 8 | 0 | 0 |
| 38 | 1 | 37 | Total O 37 37 | 0 | 0 |

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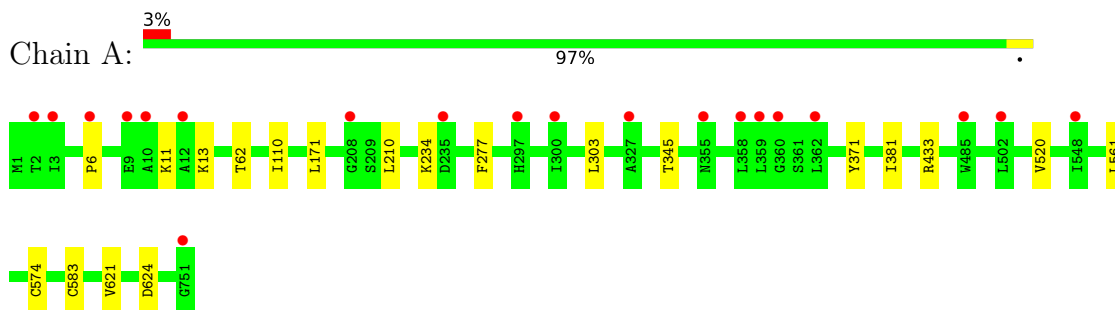
Continued from previous page...

| Mol | Chain | Residues | Atoms | ZeroOcc | AltConf |
|------------|--------------|-----------------|------------------|----------------|----------------|
| 38 | 2 | 24 | Total O 24 24 | 0 | 0 |
| 38 | 3 | 11 | Total O 11 11 | 0 | 0 |
| 38 | 4 | 13 | Total O 13 13 | 0 | 0 |
| 38 | 5 | 4 | Total O 4 4 | 0 | 0 |
| 38 | 6 | 1 | Total O 1 1 | 0 | 0 |
| 38 | h | 3 | Total O 3 3 | 0 | 0 |
| 38 | 7 | 1 | Total O 1 1 | 0 | 0 |
| 38 | 8 | 2 | Total O 2 2 | 0 | 0 |
| 38 | 0 | 33 | Total O 33 33 | 0 | 0 |
| 38 | 9 | 1 | Total O 1 1 | 0 | 0 |

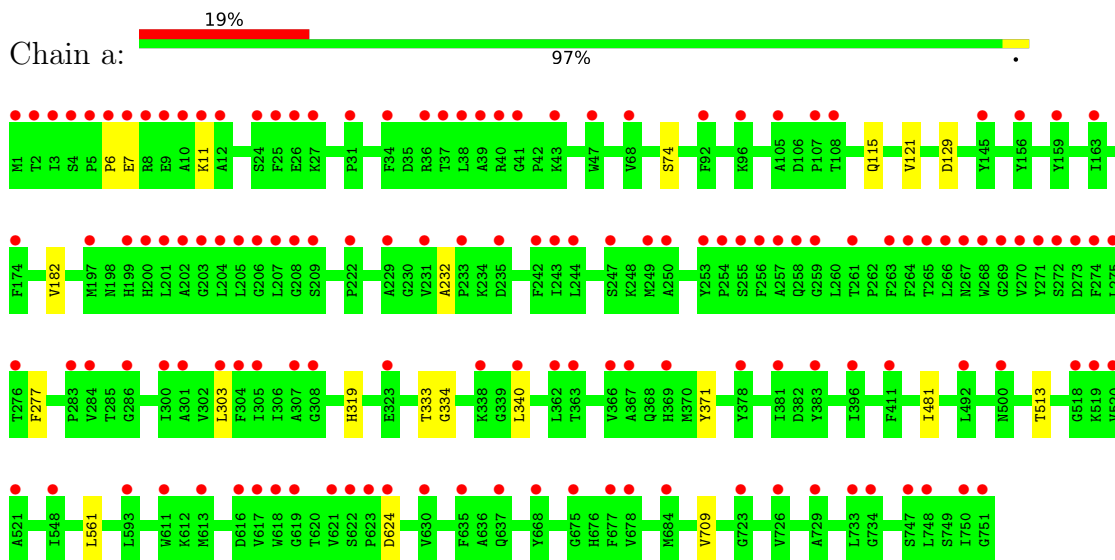
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). 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.

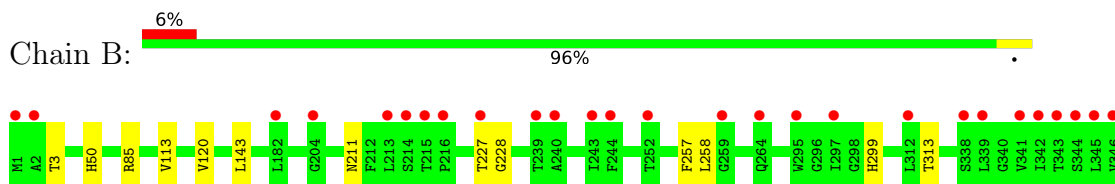
- Molecule 1: Photosystem I P700 chlorophyll a apoprotein A1

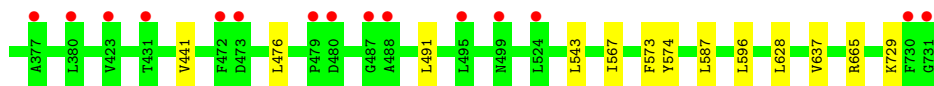


- Molecule 1: Photosystem I P700 chlorophyll a apoprotein A1

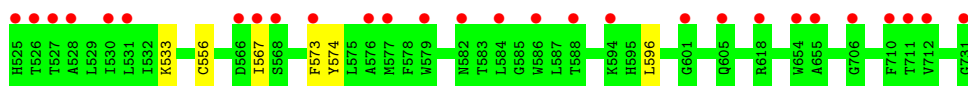
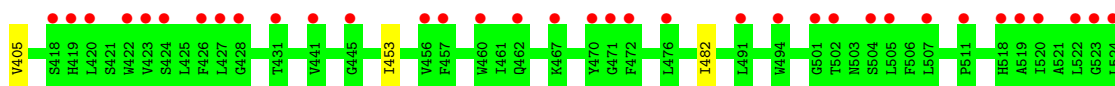
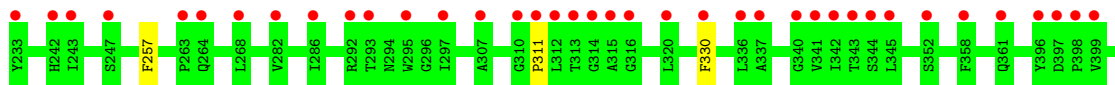


- Molecule 2: Photosystem I P700 chlorophyll a apoprotein A2

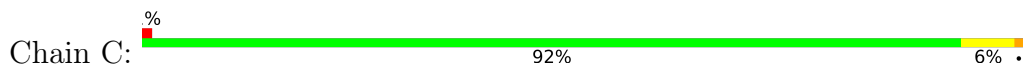




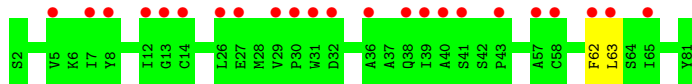
- Molecule 2: Photosystem I P700 chlorophyll a apoprotein A2



- Molecule 3: Photosystem I iron-sulfur center



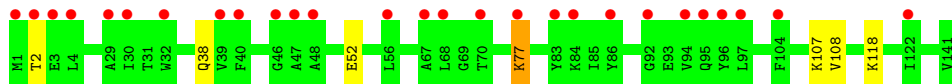
- Molecule 3: Photosystem I iron-sulfur center



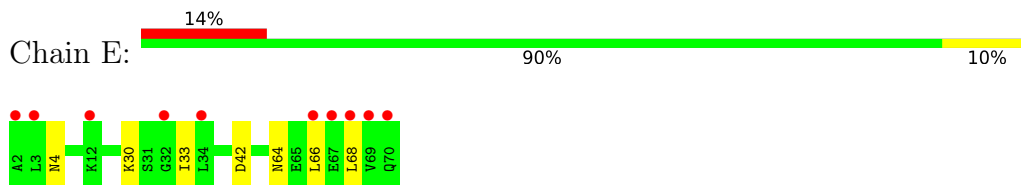
- Molecule 4: Photosystem I reaction center subunit II



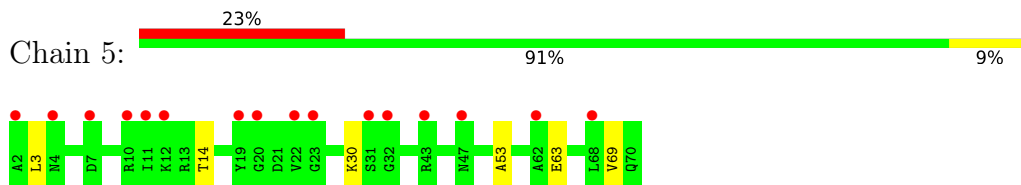
- Molecule 4: Photosystem I reaction center subunit II



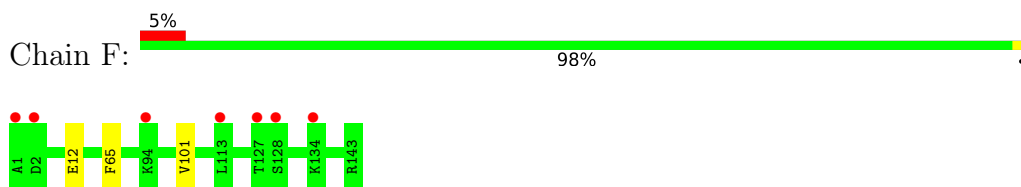
- Molecule 5: Photosystem I reaction center subunit IV



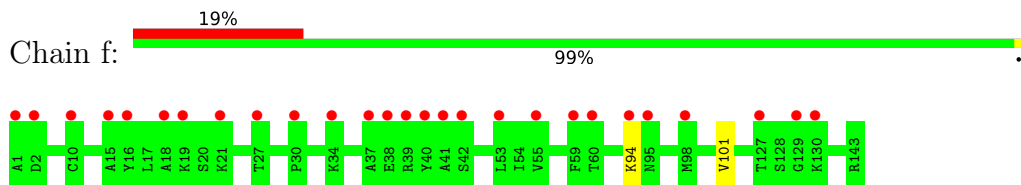
- Molecule 5: Photosystem I reaction center subunit IV



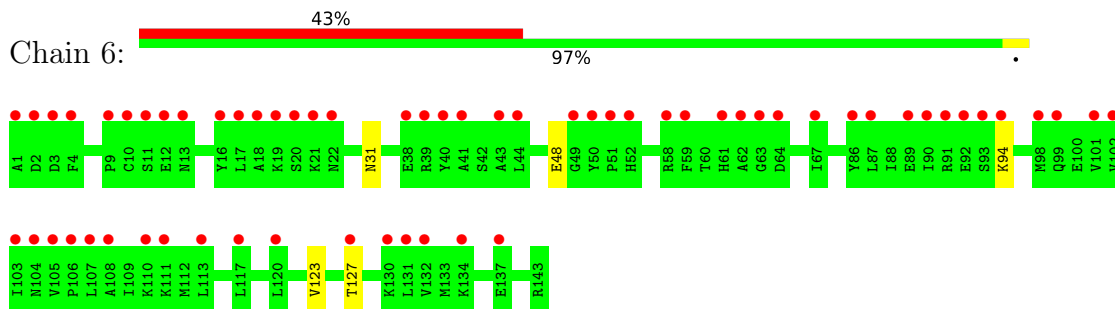
- Molecule 6: Photosystem I reaction center subunit III



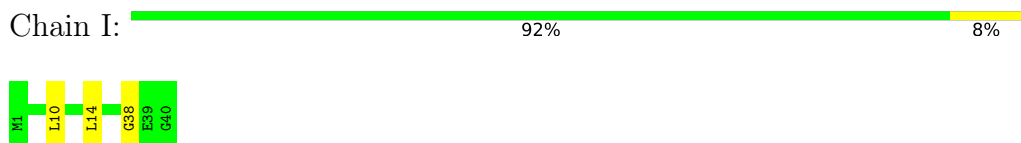
- Molecule 6: Photosystem I reaction center subunit III



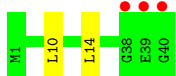
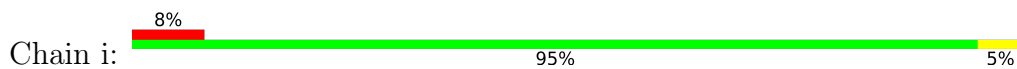
- Molecule 6: Photosystem I reaction center subunit III



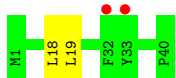
- Molecule 7: Photosystem I reaction center subunit VIII



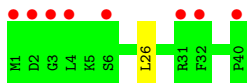
- Molecule 7: Photosystem I reaction center subunit VIII



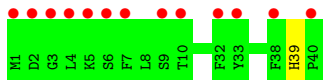
- Molecule 8: Photosystem I reaction center subunit IX



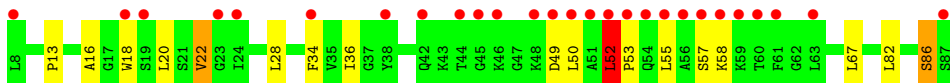
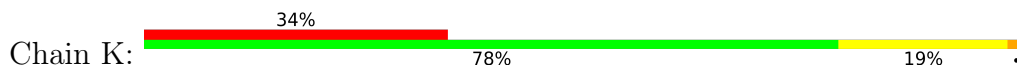
- Molecule 8: Photosystem I reaction center subunit IX



- Molecule 8: Photosystem I reaction center subunit IX



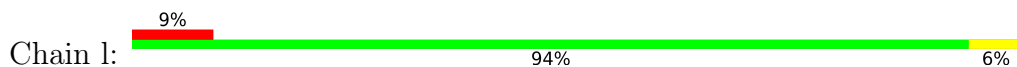
- Molecule 9: Photosystem I reaction center subunit PsaK 2



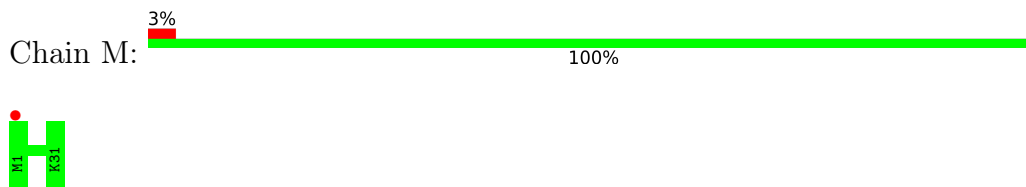
- Molecule 10: Photosystem I reaction center subunit XI



- Molecule 10: Photosystem I reaction center subunit XI



- Molecule 11: Photosystem I reaction center subunit XII

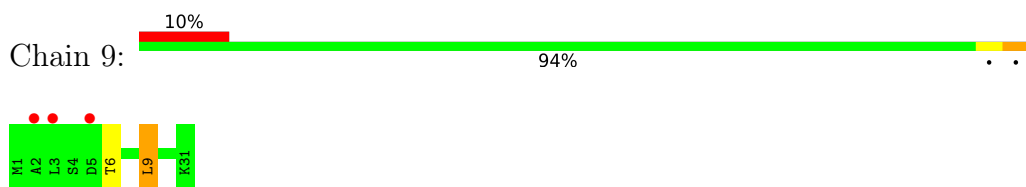


- Molecule 11: Photosystem I reaction center subunit XII

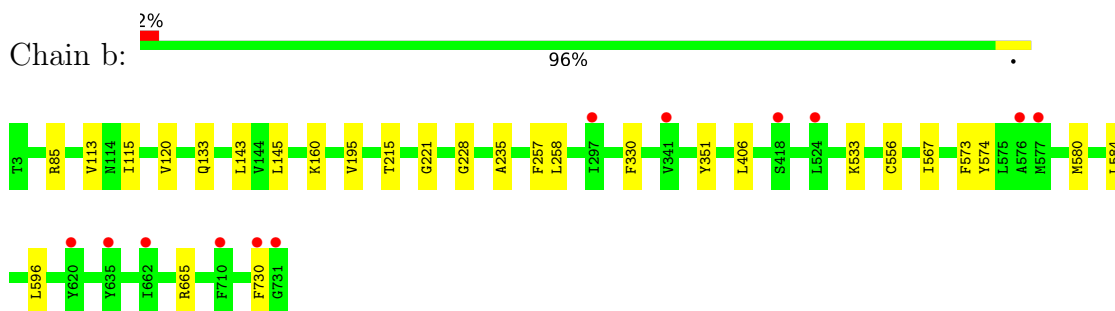


There are no outlier residues recorded for this chain.

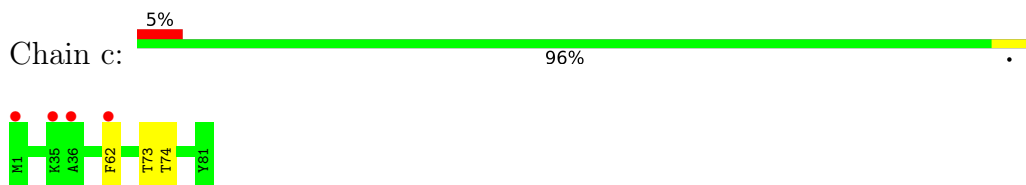
- Molecule 11: Photosystem I reaction center subunit XII



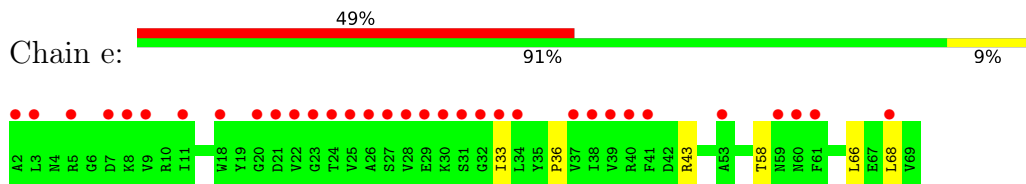
- Molecule 12: Photosystem I P700 chlorophyll a apoprotein A2



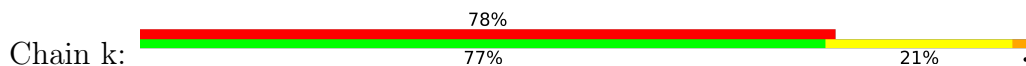
- Molecule 13: Photosystem I iron-sulfur center

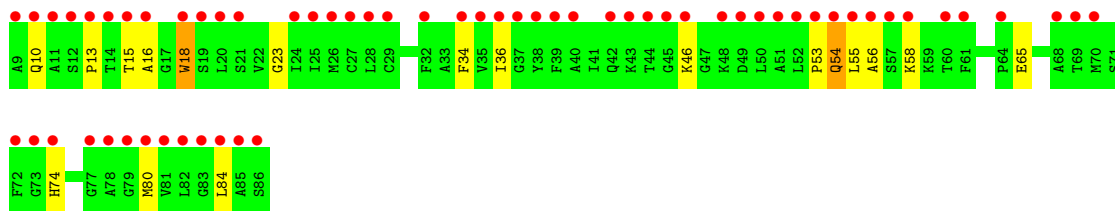


- Molecule 14: Photosystem I reaction center subunit IV

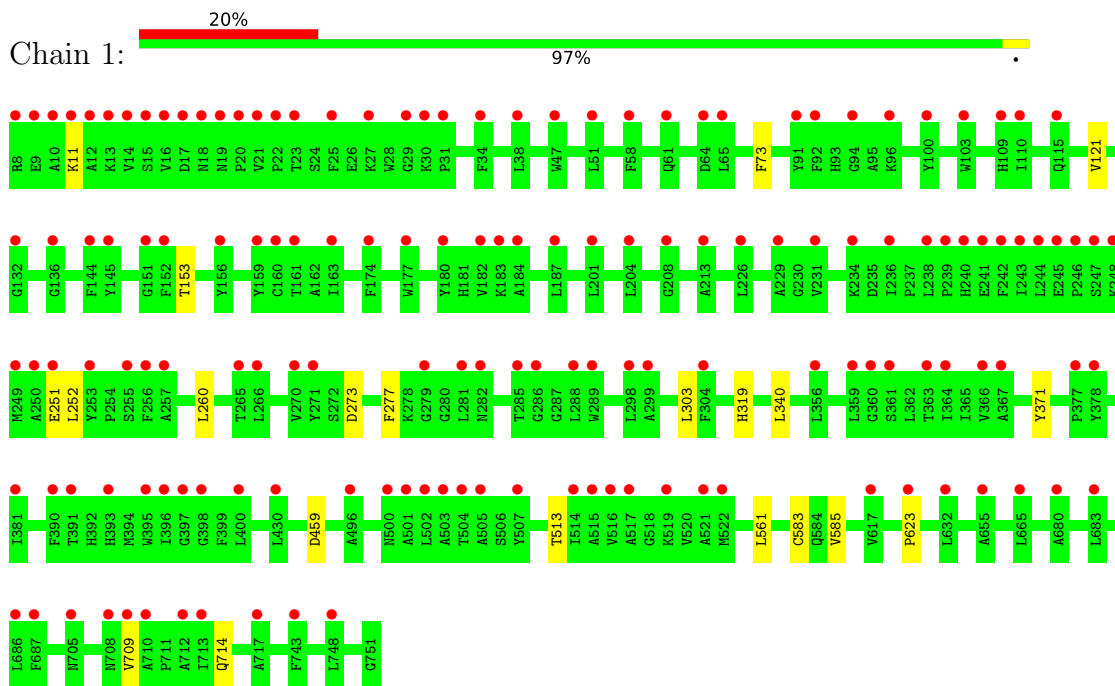


- Molecule 15: Photosystem I reaction center subunit PsaK 2

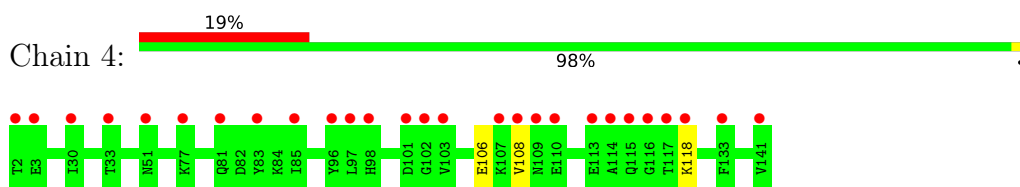




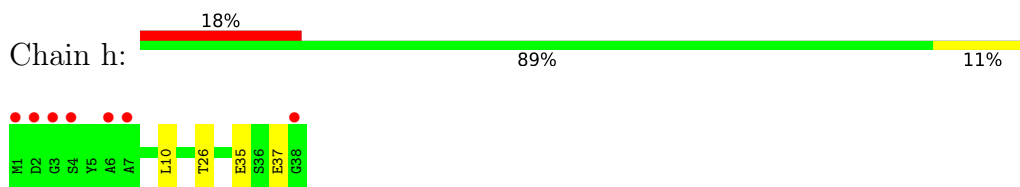
- Molecule 16: Photosystem I P700 chlorophyll a apoprotein A1



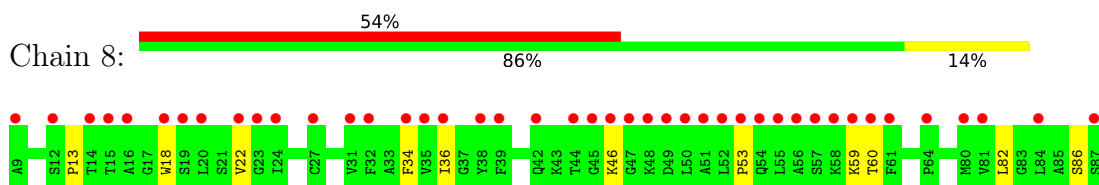
- Molecule 17: Photosystem I reaction center subunit II



- Molecule 18: Photosystem I reaction center subunit VIII

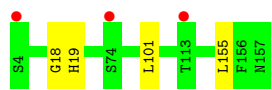


- Molecule 19: Photosystem I reaction center subunit PsaK 2



- Molecule 20: Photosystem I reaction center subunit XI

Chain 0:  2%
97%



4 Data and refinement statistics

| Property | Value | Source |
|---|---|------------------|
| Space group | P 1 21 1 | Depositor |
| Cell constants a, b, c, α , β , γ | 212.17Å 137.62Å 225.09Å 90.00° 116.74° 90.00° | Depositor |
| Resolution (Å) | 49.48 – 2.50 49.48 – 2.50 | Depositor EDS |
| % Data completeness (in resolution range) | 99.4 (49.48-2.50) 99.4 (49.48-2.50) | Depositor EDS |
| R_{merge} | 0.08 | Depositor |
| R_{sym} | (Not available) | Depositor |
| $\langle I/\sigma(I) \rangle$ ¹ | 1.10 (at 2.51Å) | Xtrriage |
| Refinement program | PHENIX (dev_2947: ???) | Depositor |
| R, R_{free} | 0.228 , 0.264 0.228 , 0.265 | Depositor DCC |
| R_{free} test set | 7881 reflections (1.99%) | wwPDB-VP |
| Wilson B-factor (Å ²) | 58.1 | Xtrriage |
| Anisotropy | 0.086 | Xtrriage |
| Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²) | 0.28 , 66.2 | EDS |
| L-test for twinning ² | $\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$ | Xtrriage |
| Estimated twinning fraction | 0.008 for h,-k,-h-l | Xtrriage |
| F_o, F_c correlation | 0.93 | EDS |
| Total number of atoms | 77117 | wwPDB-VP |
| Average B, all atoms (Å ²) | 77.0 | wwPDB-VP |

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.13% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality i

5.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: CL, ACT, LMG, 45D, CLA, CA, EQ3, ZEX, ECH, SF4, DGD, LMT, LHG, BCR, PQN, MG, SQD

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

| Mol | Chain | Bond lengths | | Bond angles | |
|-----|-------|--------------|--------------|-------------|---------------|
| | | RMSZ | # Z >5 | RMSZ | # Z >5 |
| 1 | A | 0.31 | 0/6078 | 0.46 | 0/8284 |
| 1 | a | 0.27 | 0/6078 | 0.42 | 0/8284 |
| 2 | 2 | 0.26 | 0/5994 | 0.41 | 0/8195 |
| 2 | B | 0.33 | 0/5994 | 0.45 | 2/8195 (0.0%) |
| 3 | 3 | 0.24 | 0/610 | 0.45 | 0/826 |
| 3 | C | 0.37 | 1/610 (0.2%) | 0.56 | 1/826 (0.1%) |
| 4 | D | 0.29 | 0/1126 | 0.49 | 0/1517 |
| 4 | d | 0.26 | 0/1126 | 0.48 | 0/1517 |
| 5 | 5 | 0.25 | 0/552 | 0.39 | 0/745 |
| 5 | E | 0.26 | 0/552 | 0.44 | 0/745 |
| 6 | 6 | 0.25 | 0/1143 | 0.40 | 0/1553 |
| 6 | F | 0.26 | 0/1143 | 0.43 | 0/1553 |
| 6 | f | 0.25 | 0/1143 | 0.40 | 0/1553 |
| 7 | I | 0.26 | 0/322 | 0.43 | 0/438 |
| 7 | i | 0.26 | 0/322 | 0.44 | 0/438 |
| 8 | 7 | 0.27 | 0/328 | 0.42 | 0/443 |
| 8 | J | 0.28 | 0/328 | 0.46 | 0/443 |
| 8 | j | 0.26 | 0/328 | 0.42 | 0/443 |
| 9 | K | 0.29 | 0/590 | 0.53 | 0/797 |
| 10 | L | 0.28 | 0/1208 | 0.47 | 0/1640 |
| 10 | l | 0.27 | 0/1208 | 0.43 | 0/1640 |
| 11 | 9 | 0.25 | 0/241 | 0.55 | 1/326 (0.3%) |
| 11 | M | 0.27 | 0/241 | 0.41 | 0/326 |
| 11 | m | 0.27 | 0/241 | 0.39 | 0/326 |
| 12 | b | 0.31 | 0/5981 | 0.46 | 1/8178 (0.0%) |
| 13 | c | 0.26 | 0/618 | 0.49 | 0/836 |
| 14 | e | 0.26 | 0/542 | 0.42 | 0/733 |
| 15 | k | 0.28 | 0/570 | 0.45 | 0/770 |
| 16 | 1 | 0.26 | 0/6024 | 0.41 | 0/8209 |
| 17 | 4 | 0.26 | 0/1118 | 0.45 | 0/1507 |
| 18 | h | 0.26 | 0/309 | 0.43 | 0/421 |

| Mol | Chain | Bond lengths | | Bond angles | |
|-----|-------|--------------|----------------|-------------|----------------|
| | | RMSZ | # Z >5 | RMSZ | # Z >5 |
| 19 | 8 | 0.27 | 0/576 | 0.46 | 0/778 |
| 20 | 0 | 0.28 | 0/1186 | 0.43 | 0/1611 |
| All | All | 0.29 | 1/54430 (0.0%) | 0.44 | 5/74096 (0.0%) |

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 |
|-----|-------|---------------------|---------------------|
| 9 | K | 0 | 1 |

All (1) bond length outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|-------|------|-------------|----------|
| 3 | C | 17 | CYS | CB-SG | 5.38 | 1.91 | 1.82 |

All (5) bond angle outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|----------|------|-------------|----------|
| 12 | b | 665 | ARG | N-CA-C | 7.42 | 131.03 | 111.00 |
| 2 | B | 587 | LEU | CA-CB-CG | 6.99 | 131.38 | 115.30 |
| 2 | B | 665 | ARG | N-CA-C | 6.41 | 128.31 | 111.00 |
| 11 | 9 | 9 | LEU | CA-CB-CG | 6.23 | 129.62 | 115.30 |
| 3 | C | 17 | CYS | CA-CB-SG | 5.76 | 124.37 | 114.00 |

There are no chirality outliers.

All (1) planarity outliers are listed below:

| Mol | Chain | Res | Type | Group |
|-----|-------|-----|------|---------|
| 9 | K | 52 | LEU | Peptide |

5.2 Too-close contacts [i](#)

Due to software issues we are unable to calculate clashes - this section is therefore empty.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

| Mol | Chain | Analysed | Favoured | Allowed | Outliers | Percentiles | |
|-----|-------|----------------|-----------|---------|----------|-------------|-----|
| 1 | A | 749/751 (100%) | 719 (96%) | 28 (4%) | 2 (0%) | 41 | 61 |
| 1 | a | 749/751 (100%) | 712 (95%) | 31 (4%) | 6 (1%) | 19 | 35 |
| 2 | 2 | 729/731 (100%) | 694 (95%) | 33 (4%) | 2 (0%) | 41 | 61 |
| 2 | B | 729/731 (100%) | 697 (96%) | 28 (4%) | 4 (0%) | 29 | 48 |
| 3 | 3 | 78/80 (98%) | 72 (92%) | 5 (6%) | 1 (1%) | 12 | 21 |
| 3 | C | 78/80 (98%) | 72 (92%) | 4 (5%) | 2 (3%) | 5 | 8 |
| 4 | D | 139/141 (99%) | 135 (97%) | 4 (3%) | 0 | 100 | 100 |
| 4 | d | 139/141 (99%) | 134 (96%) | 4 (3%) | 1 (1%) | 22 | 39 |
| 5 | 5 | 67/69 (97%) | 59 (88%) | 6 (9%) | 2 (3%) | 4 | 6 |
| 5 | E | 67/69 (97%) | 61 (91%) | 6 (9%) | 0 | 100 | 100 |
| 6 | 6 | 141/143 (99%) | 134 (95%) | 6 (4%) | 1 (1%) | 22 | 39 |
| 6 | F | 141/143 (99%) | 135 (96%) | 5 (4%) | 1 (1%) | 22 | 39 |
| 6 | f | 141/143 (99%) | 134 (95%) | 7 (5%) | 0 | 100 | 100 |
| 7 | I | 38/40 (95%) | 36 (95%) | 1 (3%) | 1 (3%) | 5 | 8 |
| 7 | i | 38/40 (95%) | 37 (97%) | 1 (3%) | 0 | 100 | 100 |
| 8 | 7 | 38/40 (95%) | 38 (100%) | 0 | 0 | 100 | 100 |
| 8 | J | 38/40 (95%) | 37 (97%) | 1 (3%) | 0 | 100 | 100 |
| 8 | j | 38/40 (95%) | 38 (100%) | 0 | 0 | 100 | 100 |
| 9 | K | 79/80 (99%) | 66 (84%) | 6 (8%) | 7 (9%) | 1 | 0 |
| 10 | L | 155/157 (99%) | 148 (96%) | 7 (4%) | 0 | 100 | 100 |
| 10 | l | 155/157 (99%) | 150 (97%) | 3 (2%) | 2 (1%) | 12 | 21 |
| 11 | 9 | 29/31 (94%) | 27 (93%) | 2 (7%) | 0 | 100 | 100 |
| 11 | M | 29/31 (94%) | 29 (100%) | 0 | 0 | 100 | 100 |
| 11 | m | 29/31 (94%) | 29 (100%) | 0 | 0 | 100 | 100 |
| 12 | b | 727/729 (100%) | 701 (96%) | 22 (3%) | 4 (1%) | 25 | 43 |

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| Mol | Chain | Analysed | Favoured | Allowed | Outliers | Percentiles | |
|-----|-------|-----------------|------------|----------|----------|-------------|-----|
| 13 | c | 79/81 (98%) | 75 (95%) | 3 (4%) | 1 (1%) | 12 | 21 |
| 14 | e | 66/68 (97%) | 62 (94%) | 3 (4%) | 1 (2%) | 10 | 18 |
| 15 | k | 76/78 (97%) | 60 (79%) | 7 (9%) | 9 (12%) | 0 | 0 |
| 16 | 1 | 742/744 (100%) | 706 (95%) | 34 (5%) | 2 (0%) | 41 | 61 |
| 17 | 4 | 138/140 (99%) | 133 (96%) | 5 (4%) | 0 | 100 | 100 |
| 18 | h | 36/38 (95%) | 32 (89%) | 3 (8%) | 1 (3%) | 5 | 7 |
| 19 | 8 | 77/79 (98%) | 64 (83%) | 9 (12%) | 4 (5%) | 2 | 2 |
| 20 | 0 | 152/154 (99%) | 148 (97%) | 3 (2%) | 1 (1%) | 22 | 39 |
| All | All | 6706/6771 (99%) | 6374 (95%) | 277 (4%) | 55 (1%) | 19 | 35 |

All (55) Ramachandran outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 3 | C | 62 | PHE |
| 9 | K | 16 | ALA |
| 9 | K | 52 | LEU |
| 13 | c | 62 | PHE |
| 15 | k | 13 | PRO |
| 15 | k | 18 | TRP |
| 19 | 8 | 53 | PRO |
| 1 | A | 6 | PRO |
| 2 | B | 228 | GLY |
| 9 | K | 22 | VAL |
| 1 | a | 6 | PRO |
| 1 | a | 182 | VAL |
| 12 | b | 235 | ALA |
| 15 | k | 23 | GLY |
| 10 | 1 | 18 | GLY |
| 2 | 2 | 556 | CYS |
| 3 | 3 | 62 | PHE |
| 5 | 5 | 14 | THR |
| 5 | 5 | 53 | ALA |
| 19 | 8 | 18 | TRP |
| 1 | A | 574 | CYS |
| 7 | I | 38 | GLY |
| 9 | K | 86 | SER |
| 15 | k | 15 | THR |
| 15 | k | 56 | ALA |
| 2 | 2 | 311 | PRO |

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| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 20 | 0 | 18 | GLY |
| 2 | B | 3 | THR |
| 1 | a | 115 | GLN |
| 12 | b | 221 | GLY |
| 12 | b | 556 | CYS |
| 15 | k | 54 | GLN |
| 18 | h | 37 | GLU |
| 19 | 8 | 86 | SER |
| 2 | B | 211 | ASN |
| 2 | B | 227 | THR |
| 4 | d | 77 | LYS |
| 15 | k | 55 | LEU |
| 6 | F | 65 | PHE |
| 9 | K | 13 | PRO |
| 9 | K | 57 | SER |
| 1 | a | 232 | ALA |
| 15 | k | 16 | ALA |
| 10 | l | 111 | GLY |
| 6 | 6 | 94 | LYS |
| 9 | K | 53 | PRO |
| 1 | a | 121 | VAL |
| 15 | k | 53 | PRO |
| 16 | 1 | 121 | VAL |
| 16 | 1 | 623 | PRO |
| 19 | 8 | 13 | PRO |
| 12 | b | 228 | GLY |
| 3 | C | 59 | PRO |
| 14 | e | 36 | PRO |
| 1 | a | 334 | GLY |

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles |
|-----|-------|----------------|-----------|----------|-------------|
| 1 | A | 603/603 (100%) | 585 (97%) | 18 (3%) | 41 68 |
| 1 | a | 603/603 (100%) | 588 (98%) | 15 (2%) | 47 73 |

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| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles | |
|-----|-------|----------------|-----------|----------|-------------|-----|
| 2 | 2 | 583/583 (100%) | 564 (97%) | 19 (3%) | 38 | 64 |
| 2 | B | 583/583 (100%) | 563 (97%) | 20 (3%) | 37 | 63 |
| 3 | 3 | 68/68 (100%) | 67 (98%) | 1 (2%) | 65 | 85 |
| 3 | C | 68/68 (100%) | 64 (94%) | 4 (6%) | 19 | 37 |
| 4 | D | 116/116 (100%) | 111 (96%) | 5 (4%) | 29 | 53 |
| 4 | d | 116/116 (100%) | 109 (94%) | 7 (6%) | 19 | 37 |
| 5 | 5 | 58/58 (100%) | 54 (93%) | 4 (7%) | 15 | 30 |
| 5 | E | 58/58 (100%) | 51 (88%) | 7 (12%) | 5 | 9 |
| 6 | 6 | 119/119 (100%) | 115 (97%) | 4 (3%) | 37 | 63 |
| 6 | F | 119/119 (100%) | 117 (98%) | 2 (2%) | 60 | 82 |
| 6 | f | 119/119 (100%) | 117 (98%) | 2 (2%) | 60 | 82 |
| 7 | I | 32/32 (100%) | 30 (94%) | 2 (6%) | 18 | 34 |
| 7 | i | 32/32 (100%) | 30 (94%) | 2 (6%) | 18 | 34 |
| 8 | 7 | 35/35 (100%) | 34 (97%) | 1 (3%) | 42 | 69 |
| 8 | J | 35/35 (100%) | 33 (94%) | 2 (6%) | 20 | 39 |
| 8 | j | 35/35 (100%) | 34 (97%) | 1 (3%) | 42 | 69 |
| 9 | K | 60/60 (100%) | 46 (77%) | 14 (23%) | 1 | 1 |
| 10 | L | 118/118 (100%) | 110 (93%) | 8 (7%) | 16 | 30 |
| 10 | l | 118/118 (100%) | 111 (94%) | 7 (6%) | 19 | 37 |
| 11 | 9 | 25/25 (100%) | 23 (92%) | 2 (8%) | 12 | 23 |
| 11 | M | 25/25 (100%) | 25 (100%) | 0 | 100 | 100 |
| 11 | m | 25/25 (100%) | 25 (100%) | 0 | 100 | 100 |
| 12 | b | 582/582 (100%) | 559 (96%) | 23 (4%) | 31 | 56 |
| 13 | c | 69/69 (100%) | 67 (97%) | 2 (3%) | 42 | 69 |
| 14 | e | 57/57 (100%) | 52 (91%) | 5 (9%) | 10 | 19 |
| 15 | k | 57/58 (98%) | 46 (81%) | 11 (19%) | 1 | 2 |
| 16 | 1 | 596/596 (100%) | 577 (97%) | 19 (3%) | 39 | 65 |
| 17 | 4 | 115/115 (100%) | 112 (97%) | 3 (3%) | 46 | 72 |
| 18 | h | 31/31 (100%) | 28 (90%) | 3 (10%) | 8 | 16 |
| 19 | 8 | 58/59 (98%) | 51 (88%) | 7 (12%) | 5 | 9 |
| 20 | 0 | 116/116 (100%) | 113 (97%) | 3 (3%) | 46 | 72 |

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| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles |
|-----|-------|------------------|------------|----------|-------------|
| All | All | 5434/5436 (100%) | 5211 (96%) | 223 (4%) | 30 55 |

All (223) residues with a non-rotameric sidechain are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 1 | A | 11 | LYS |
| 1 | A | 13 | LYS |
| 1 | A | 62 | THR |
| 1 | A | 110 | ILE |
| 1 | A | 171 | LEU |
| 1 | A | 210 | LEU |
| 1 | A | 234 | LYS |
| 1 | A | 277 | PHE |
| 1 | A | 303 | LEU |
| 1 | A | 345 | THR |
| 1 | A | 371 | TYR |
| 1 | A | 381 | ILE |
| 1 | A | 433 | ARG |
| 1 | A | 520 | VAL |
| 1 | A | 561 | LEU |
| 1 | A | 583 | CYS |
| 1 | A | 621 | VAL |
| 1 | A | 624 | ASP |
| 2 | B | 50 | HIS |
| 2 | B | 85 | ARG |
| 2 | B | 113 | VAL |
| 2 | B | 120 | VAL |
| 2 | B | 143 | LEU |
| 2 | B | 257 | PHE |
| 2 | B | 258 | LEU |
| 2 | B | 299 | HIS |
| 2 | B | 313 | THR |
| 2 | B | 441 | VAL |
| 2 | B | 476 | LEU |
| 2 | B | 491 | LEU |
| 2 | B | 543 | LEU |
| 2 | B | 567 | ILE |
| 2 | B | 573 | PHE |
| 2 | B | 574 | TYR |
| 2 | B | 596 | LEU |
| 2 | B | 628 | LEU |
| 2 | B | 637 | VAL |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 2 | B | 729 | LYS |
| 3 | C | 17 | CYS |
| 3 | C | 23 | LEU |
| 3 | C | 63 | LEU |
| 3 | C | 66 | ARG |
| 4 | D | 18 | LEU |
| 4 | D | 97 | LEU |
| 4 | D | 107 | LYS |
| 4 | D | 108 | VAL |
| 4 | D | 118 | LYS |
| 5 | E | 4 | ASN |
| 5 | E | 30 | LYS |
| 5 | E | 33 | ILE |
| 5 | E | 42 | ASP |
| 5 | E | 64 | ASN |
| 5 | E | 66 | LEU |
| 5 | E | 68 | LEU |
| 6 | F | 12 | GLU |
| 6 | F | 101 | VAL |
| 7 | I | 10 | LEU |
| 7 | I | 14 | LEU |
| 8 | J | 18 | LEU |
| 8 | J | 19 | LEU |
| 9 | K | 18 | TRP |
| 9 | K | 20 | LEU |
| 9 | K | 22 | VAL |
| 9 | K | 28 | LEU |
| 9 | K | 34 | PHE |
| 9 | K | 36 | ILE |
| 9 | K | 49 | ASP |
| 9 | K | 50 | LEU |
| 9 | K | 52 | LEU |
| 9 | K | 55 | LEU |
| 9 | K | 58 | LYS |
| 9 | K | 67 | LEU |
| 9 | K | 82 | LEU |
| 9 | K | 86 | SER |
| 10 | L | 1 | MET |
| 10 | L | 42 | LYS |
| 10 | L | 47 | ILE |
| 10 | L | 49 | ARG |
| 10 | L | 60 | PHE |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 10 | L | 62 | ILE |
| 10 | L | 101 | LEU |
| 10 | L | 155 | LEU |
| 1 | a | 7 | GLU |
| 1 | a | 11 | LYS |
| 1 | a | 74 | SER |
| 1 | a | 129 | ASP |
| 1 | a | 277 | PHE |
| 1 | a | 303 | LEU |
| 1 | a | 319 | HIS |
| 1 | a | 333 | THR |
| 1 | a | 340 | LEU |
| 1 | a | 371 | TYR |
| 1 | a | 481 | ILE |
| 1 | a | 513 | THR |
| 1 | a | 561 | LEU |
| 1 | a | 624 | ASP |
| 1 | a | 709 | VAL |
| 12 | b | 85 | ARG |
| 12 | b | 113 | VAL |
| 12 | b | 115 | ILE |
| 12 | b | 120 | VAL |
| 12 | b | 133 | GLN |
| 12 | b | 143 | LEU |
| 12 | b | 145 | LEU |
| 12 | b | 160 | LYS |
| 12 | b | 195 | VAL |
| 12 | b | 215 | THR |
| 12 | b | 257 | PHE |
| 12 | b | 258 | LEU |
| 12 | b | 330 | PHE |
| 12 | b | 351 | TYR |
| 12 | b | 406 | LEU |
| 12 | b | 533 | LYS |
| 12 | b | 567 | ILE |
| 12 | b | 573 | PHE |
| 12 | b | 574 | TYR |
| 12 | b | 580 | MET |
| 12 | b | 584 | LEU |
| 12 | b | 596 | LEU |
| 12 | b | 730 | PHE |
| 13 | c | 73 | THR |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 13 | c | 74 | THR |
| 4 | d | 2 | THR |
| 4 | d | 38 | GLN |
| 4 | d | 52 | GLU |
| 4 | d | 77 | LYS |
| 4 | d | 107 | LYS |
| 4 | d | 108 | VAL |
| 4 | d | 118 | LYS |
| 14 | e | 33 | ILE |
| 14 | e | 43 | ARG |
| 14 | e | 58 | THR |
| 14 | e | 66 | LEU |
| 14 | e | 68 | LEU |
| 6 | f | 94 | LYS |
| 6 | f | 101 | VAL |
| 7 | i | 10 | LEU |
| 7 | i | 14 | LEU |
| 8 | j | 26 | LEU |
| 15 | k | 10 | GLN |
| 15 | k | 18 | TRP |
| 15 | k | 34 | PHE |
| 15 | k | 36 | ILE |
| 15 | k | 46 | LYS |
| 15 | k | 54 | GLN |
| 15 | k | 58 | LYS |
| 15 | k | 65 | GLU |
| 15 | k | 74 | HIS |
| 15 | k | 80 | MET |
| 15 | k | 84 | LEU |
| 10 | l | 19 | HIS |
| 10 | l | 42 | LYS |
| 10 | l | 44 | LEU |
| 10 | l | 101 | LEU |
| 10 | l | 136 | PHE |
| 10 | l | 143 | GLU |
| 10 | l | 155 | LEU |
| 16 | 1 | 11 | LYS |
| 16 | 1 | 73 | PHE |
| 16 | 1 | 153 | THR |
| 16 | 1 | 251 | GLU |
| 16 | 1 | 252 | LEU |
| 16 | 1 | 260 | LEU |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 16 | 1 | 273 | ASP |
| 16 | 1 | 277 | PHE |
| 16 | 1 | 303 | LEU |
| 16 | 1 | 319 | HIS |
| 16 | 1 | 340 | LEU |
| 16 | 1 | 371 | TYR |
| 16 | 1 | 459 | ASP |
| 16 | 1 | 513 | THR |
| 16 | 1 | 561 | LEU |
| 16 | 1 | 583 | CYS |
| 16 | 1 | 585 | VAL |
| 16 | 1 | 709 | VAL |
| 16 | 1 | 714 | GLN |
| 2 | 2 | 34 | HIS |
| 2 | 2 | 47 | PHE |
| 2 | 2 | 65 | LEU |
| 2 | 2 | 115 | ILE |
| 2 | 2 | 137 | SER |
| 2 | 2 | 143 | LEU |
| 2 | 2 | 145 | LEU |
| 2 | 2 | 215 | THR |
| 2 | 2 | 226 | PHE |
| 2 | 2 | 257 | PHE |
| 2 | 2 | 330 | PHE |
| 2 | 2 | 405 | VAL |
| 2 | 2 | 453 | ILE |
| 2 | 2 | 482 | ILE |
| 2 | 2 | 533 | LYS |
| 2 | 2 | 567 | ILE |
| 2 | 2 | 573 | PHE |
| 2 | 2 | 574 | TYR |
| 2 | 2 | 596 | LEU |
| 3 | 3 | 63 | LEU |
| 17 | 4 | 106 | GLU |
| 17 | 4 | 108 | VAL |
| 17 | 4 | 118 | LYS |
| 5 | 5 | 3 | LEU |
| 5 | 5 | 30 | LYS |
| 5 | 5 | 63 | GLU |
| 5 | 5 | 69 | VAL |
| 6 | 6 | 31 | ASN |
| 6 | 6 | 48 | GLU |

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| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 6 | 6 | 123 | VAL |
| 6 | 6 | 127 | THR |
| 18 | h | 10 | LEU |
| 18 | h | 26 | THR |
| 18 | h | 35 | GLU |
| 8 | 7 | 39 | HIS |
| 19 | 8 | 22 | VAL |
| 19 | 8 | 34 | PHE |
| 19 | 8 | 36 | ILE |
| 19 | 8 | 46 | LYS |
| 19 | 8 | 59 | LYS |
| 19 | 8 | 60 | THR |
| 19 | 8 | 82 | LEU |
| 20 | 0 | 19 | HIS |
| 20 | 0 | 101 | LEU |
| 20 | 0 | 155 | LEU |
| 11 | 9 | 6 | THR |
| 11 | 9 | 9 | LEU |

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 2 | B | 276 | HIS |
| 2 | 2 | 277 | HIS |
| 2 | 2 | 518 | HIS |

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 443 ligands modelled in this entry, 11 are monoatomic - leaving 432 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 21 | CLA | a | 1105 | - | 58,66,73 | 1.39 | 8 (13%) | 67,104,113 | 2.01 | 14 (20%) |
| 24 | BCR | 1 | 4002 | - | 41,41,41 | 0.64 | 0 | 56,56,56 | 3.26 | 11 (19%) |
| 21 | CLA | A | 1138 | - | 65,73,73 | 1.30 | 9 (13%) | 76,113,113 | 1.96 | 14 (18%) |
| 21 | CLA | b | 1207 | - | 65,73,73 | 1.31 | 9 (13%) | 76,113,113 | 1.85 | 12 (15%) |
| 24 | BCR | 2 | 4005 | - | 41,41,41 | 0.73 | 0 | 56,56,56 | 3.34 | 10 (17%) |
| 25 | LHG | 1 | 5005 | - | 48,48,48 | 0.40 | 0 | 51,54,54 | 1.03 | 3 (5%) |
| 35 | LMT | 0 | 6001 | - | 36,36,36 | 1.13 | 4 (11%) | 47,47,47 | 1.17 | 3 (6%) |
| 24 | BCR | I | 4018 | - | 41,41,41 | 0.60 | 0 | 56,56,56 | 3.10 | 14 (25%) |
| 24 | BCR | 1 | 4007 | - | 41,41,41 | 0.64 | 0 | 56,56,56 | 3.27 | 10 (17%) |
| 34 | ZEX | j | 4015 | - | 42,43,43 | 5.77 | 3 (7%) | 55,60,60 | 7.02 | 13 (23%) |
| 21 | CLA | B | 1226 | - | 65,73,73 | 1.31 | 8 (12%) | 76,113,113 | 1.91 | 15 (19%) |
| 21 | CLA | a | 1122 | - | 65,73,73 | 1.30 | 9 (13%) | 76,113,113 | 1.98 | 14 (18%) |
| 24 | BCR | 1 | 4001 | - | 41,41,41 | 0.70 | 0 | 56,56,56 | 3.27 | 10 (17%) |
| 21 | CLA | K | 1402 | - | 65,73,73 | 1.30 | 9 (13%) | 76,113,113 | 1.91 | 13 (17%) |
| 24 | BCR | A | 4001 | - | 41,41,41 | 0.68 | 0 | 56,56,56 | 3.06 | 12 (21%) |
| 21 | CLA | b | 1234 | - | 53,61,73 | 1.45 | 7 (13%) | 61,98,113 | 2.12 | 15 (24%) |
| 21 | CLA | A | 1105 | - | 65,73,73 | 1.34 | 8 (12%) | 76,113,113 | 1.83 | 12 (15%) |
| 21 | CLA | a | 1120 | - | 55,63,73 | 1.43 | 9 (16%) | 64,101,113 | 2.09 | 14 (21%) |
| 21 | CLA | 2 | 1211 | - | 50,58,73 | 1.50 | 9 (18%) | 58,95,113 | 2.17 | 14 (24%) |
| 24 | BCR | a | 4008 | - | 41,41,41 | 0.65 | 0 | 56,56,56 | 3.28 | 12 (21%) |
| 21 | CLA | B | 1236 | - | 50,58,73 | 1.51 | 9 (18%) | 58,95,113 | 2.06 | 12 (20%) |
| 21 | CLA | 1 | 1110 | - | 50,58,73 | 1.51 | 9 (18%) | 58,95,113 | 2.14 | 12 (20%) |
| 21 | CLA | 1 | 1116 | - | 65,73,73 | 1.31 | 9 (13%) | 76,113,113 | 1.94 | 14 (18%) |
| 21 | CLA | 1 | 1115 | - | 65,73,73 | 1.30 | 8 (12%) | 76,113,113 | 1.90 | 13 (17%) |
| 21 | CLA | B | 1209 | - | 65,73,73 | 1.33 | 9 (13%) | 76,113,113 | 1.98 | 13 (17%) |
| 23 | SF4 | C | 3002 | 3 | 0,12,12 | - | - | - | - | - |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 21 | CLA | A | 1107 | 1 | 65,73,73 | 1.30 | 8 (12%) | 76,113,113 | 1.95 | 13 (17%) |
| 21 | CLA | b | 1228 | - | 65,73,73 | 1.32 | 9 (13%) | 76,113,113 | 1.88 | 13 (17%) |
| 28 | 45D | h | 4020 | 21 | 43,43,43 | 3.51 | 17 (39%) | 54,60,60 | 3.40 | 23 (42%) |
| 21 | CLA | 7 | 1302 | 8 | 41,49,73 | 1.65 | 9 (21%) | 47,84,113 | 2.33 | 12 (25%) |
| 25 | LHG | l | 5003 | - | 48,48,48 | 0.40 | 0 | 51,54,54 | 1.00 | 3 (5%) |
| 21 | CLA | b | 1202 | - | 65,73,73 | 1.28 | 7 (10%) | 76,113,113 | 2.03 | 14 (18%) |
| 21 | CLA | 1 | 1129 | - | 50,58,73 | 1.50 | 8 (16%) | 58,95,113 | 2.18 | 14 (24%) |
| 24 | BCR | a | 4012 | - | 41,41,41 | 0.69 | 0 | 56,56,56 | 3.12 | 14 (25%) |
| 21 | CLA | 1 | 1125 | - | 65,73,73 | 1.32 | 9 (13%) | 76,113,113 | 1.98 | 13 (17%) |
| 21 | CLA | A | 1129 | - | 58,66,73 | 1.37 | 8 (13%) | 67,104,113 | 2.05 | 16 (23%) |
| 25 | LHG | l | 5002 | - | 48,48,48 | 0.39 | 0 | 51,54,54 | 1.09 | 3 (5%) |
| 21 | CLA | b | 1208 | - | 60,68,73 | 1.35 | 8 (13%) | 70,107,113 | 1.88 | 12 (17%) |
| 21 | CLA | 1 | 1012 | 38 | 65,73,73 | 1.30 | 8 (12%) | 76,113,113 | 2.05 | 15 (19%) |
| 24 | BCR | a | 4019 | - | 41,41,41 | 0.71 | 0 | 56,56,56 | 3.49 | 12 (21%) |
| 25 | LHG | a | 5001 | - | 48,48,48 | 0.41 | 0 | 51,54,54 | 1.11 | 3 (5%) |
| 21 | CLA | A | 1136 | - | 65,73,73 | 1.34 | 9 (13%) | 76,113,113 | 1.83 | 12 (15%) |
| 21 | CLA | B | 1231 | 38 | 65,73,73 | 1.30 | 9 (13%) | 76,113,113 | 1.99 | 15 (19%) |
| 24 | BCR | B | 4017 | - | 41,41,41 | 0.65 | 0 | 56,56,56 | 3.27 | 12 (21%) |
| 21 | CLA | b | 1223 | - | 65,73,73 | 1.30 | 8 (12%) | 76,113,113 | 1.90 | 13 (17%) |
| 21 | CLA | b | 1240 | - | 65,73,73 | 1.32 | 9 (13%) | 76,113,113 | 1.98 | 14 (18%) |
| 21 | CLA | A | 1127 | - | 65,73,73 | 1.33 | 8 (12%) | 76,113,113 | 1.79 | 13 (17%) |
| 21 | CLA | 8 | 1401 | - | 45,53,73 | 1.57 | 8 (17%) | 52,89,113 | 2.19 | 12 (23%) |
| 21 | CLA | b | 1217 | - | 51,59,73 | 1.50 | 9 (17%) | 59,96,113 | 2.09 | 14 (23%) |
| 25 | LHG | A | 5006 | - | 48,48,48 | 0.40 | 0 | 51,54,54 | 1.03 | 3 (5%) |
| 21 | CLA | a | 1111 | - | 65,73,73 | 1.31 | 9 (13%) | 76,113,113 | 1.86 | 13 (17%) |
| 21 | CLA | f | 1301 | 38 | 50,58,73 | 1.50 | 7 (14%) | 58,95,113 | 2.08 | 14 (24%) |
| 21 | CLA | L | 1501 | 10 | 65,73,73 | 1.32 | 8 (12%) | 76,113,113 | 1.85 | 12 (15%) |
| 21 | CLA | A | 1128 | - | 65,73,73 | 1.31 | 7 (10%) | 76,113,113 | 1.98 | 13 (17%) |
| 21 | CLA | 1 | 1112 | - | 50,58,73 | 1.51 | 9 (18%) | 58,95,113 | 2.25 | 14 (24%) |
| 21 | CLA | a | 1140 | - | 65,73,73 | 1.31 | 8 (12%) | 76,113,113 | 1.93 | 14 (18%) |
| 21 | CLA | 1 | 1103 | - | 65,73,73 | 1.27 | 9 (13%) | 76,113,113 | 1.96 | 10 (13%) |
| 21 | CLA | 2 | 1223 | - | 55,63,73 | 1.43 | 9 (16%) | 64,101,113 | 2.08 | 12 (18%) |
| 21 | CLA | a | 1112 | - | 65,73,73 | 1.31 | 9 (13%) | 76,113,113 | 2.00 | 14 (18%) |
| 21 | CLA | a | 1128 | - | 65,73,73 | 1.31 | 8 (12%) | 76,113,113 | 1.96 | 13 (17%) |
| 21 | CLA | a | 1114 | - | 52,60,73 | 1.47 | 9 (17%) | 60,97,113 | 2.15 | 15 (25%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 26 | LMG | b | 5005 | - | 55,55,55 | 1.14 | 6 (10%) | 63,63,63 | 1.30 | 4 (6%) |
| 21 | CLA | 2 | 1234 | - | 50,58,73 | 1.50 | 8 (16%) | 58,95,113 | 2.21 | 15 (25%) |
| 21 | CLA | b | 1022 | - | 65,73,73 | 1.30 | 7 (10%) | 76,113,113 | 1.91 | 15 (19%) |
| 26 | LMG | 1 | 5004 | - | 55,55,55 | 1.14 | 6 (10%) | 63,63,63 | 1.04 | 2 (3%) |
| 21 | CLA | B | 1201 | - | 65,73,73 | 1.29 | 9 (13%) | 76,113,113 | 1.82 | 13 (17%) |
| 26 | LMG | 0 | 5001 | - | 55,55,55 | 1.14 | 6 (10%) | 63,63,63 | 1.28 | 6 (9%) |
| 37 | DGD | L | 5004 | - | 67,67,67 | 1.07 | 6 (8%) | 81,81,81 | 1.02 | 2 (2%) |
| 21 | CLA | A | 1131 | - | 65,73,73 | 1.31 | 8 (12%) | 76,113,113 | 1.89 | 12 (15%) |
| 21 | CLA | 6 | 1302 | 6 | 43,51,73 | 1.61 | 8 (18%) | 49,86,113 | 2.45 | 14 (28%) |
| 21 | CLA | A | 1104 | - | 65,73,73 | 1.31 | 8 (12%) | 76,113,113 | 1.91 | 15 (19%) |
| 24 | BCR | b | 4004 | - | 41,41,41 | 0.67 | 0 | 56,56,56 | 3.29 | 14 (25%) |
| 21 | CLA | a | 1102 | - | 65,73,73 | 1.30 | 8 (12%) | 76,113,113 | 2.00 | 14 (18%) |
| 21 | CLA | B | 1021 | - | 65,73,73 | 1.31 | 9 (13%) | 76,113,113 | 1.95 | 12 (15%) |
| 22 | PQN | B | 2002 | - | 34,34,34 | 0.88 | 2 (5%) | 42,45,45 | 1.27 | 3 (7%) |
| 21 | CLA | A | 1121 | - | 65,73,73 | 1.28 | 8 (12%) | 76,113,113 | 1.97 | 13 (17%) |
| 21 | CLA | A | 1123 | 38 | 65,73,73 | 1.32 | 9 (13%) | 76,113,113 | 1.92 | 12 (15%) |
| 21 | CLA | 1 | 1132 | - | 65,73,73 | 1.30 | 8 (12%) | 76,113,113 | 1.97 | 14 (18%) |
| 21 | CLA | 1 | 1111 | - | 65,73,73 | 1.31 | 8 (12%) | 76,113,113 | 1.90 | 16 (21%) |
| 21 | CLA | 1 | 1013 | - | 65,73,73 | 1.32 | 8 (12%) | 76,113,113 | 2.00 | 15 (19%) |
| 21 | CLA | a | 1801 | 25 | 55,63,73 | 1.43 | 9 (16%) | 64,101,113 | 2.08 | 12 (18%) |
| 21 | CLA | A | 1103 | - | 65,73,73 | 1.27 | 8 (12%) | 76,113,113 | 1.94 | 12 (15%) |
| 21 | CLA | 7 | 1303 | - | 41,49,73 | 1.63 | 8 (19%) | 47,84,113 | 2.28 | 13 (27%) |
| 21 | CLA | B | 1225 | - | 65,73,73 | 1.33 | 9 (13%) | 76,113,113 | 1.87 | 11 (14%) |
| 21 | CLA | b | 1212 | - | 65,73,73 | 1.33 | 9 (13%) | 76,113,113 | 1.85 | 12 (15%) |
| 21 | CLA | 2 | 1021 | - | 65,73,73 | 1.30 | 9 (13%) | 76,113,113 | 1.92 | 12 (15%) |
| 27 | ACT | B | 7002 | - | 3,3,3 | 1.36 | 0 | 3,3,3 | 1.34 | 0 |
| 21 | CLA | 2 | 1225 | - | 65,73,73 | 1.31 | 8 (12%) | 76,113,113 | 1.88 | 13 (17%) |
| 21 | CLA | 0 | 1502 | 28 | 65,73,73 | 1.31 | 8 (12%) | 76,113,113 | 1.95 | 12 (15%) |
| 27 | ACT | A | 7001 | - | 3,3,3 | 1.52 | 1 (33%) | 3,3,3 | 1.46 | 0 |
| 21 | CLA | 1 | 1122 | - | 60,68,73 | 1.36 | 9 (15%) | 70,107,113 | 2.00 | 12 (17%) |
| 24 | BCR | 0 | 4022 | - | 41,41,41 | 0.71 | 0 | 56,56,56 | 3.25 | 14 (25%) |
| 21 | CLA | A | 1112 | - | 65,73,73 | 1.31 | 9 (13%) | 76,113,113 | 1.96 | 13 (17%) |
| 21 | CLA | A | 1101 | - | 65,73,73 | 1.33 | 9 (13%) | 76,113,113 | 1.98 | 15 (19%) |
| 21 | CLA | b | 1203 | - | 65,73,73 | 1.30 | 9 (13%) | 76,113,113 | 1.88 | 11 (14%) |
| 21 | CLA | 2 | 1231 | 38 | 46,54,73 | 1.53 | 8 (17%) | 53,90,113 | 2.15 | 12 (22%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 21 | CLA | b | 1224 | - | 65,73,73 | 1.30 | 9 (13%) | 76,113,113 | 1.91 | 14 (18%) |
| 21 | CLA | 2 | 1022 | 38 | 65,73,73 | 1.31 | 7 (10%) | 76,113,113 | 1.98 | 13 (17%) |
| 21 | CLA | 2 | 1238 | 38 | 65,73,73 | 1.32 | 8 (12%) | 76,113,113 | 1.86 | 14 (18%) |
| 23 | SF4 | c | 3002 | - | 0,12,12 | - | - | - | - | - |
| 21 | CLA | 0 | 1503 | 38 | 65,73,73 | 1.30 | 8 (12%) | 76,113,113 | 1.88 | 12 (15%) |
| 21 | CLA | 2 | 1216 | - | 50,58,73 | 1.48 | 9 (18%) | 58,95,113 | 2.21 | 11 (18%) |
| 26 | LMG | a | 5004 | - | 55,55,55 | 1.14 | 7 (12%) | 63,63,63 | 1.21 | 4 (6%) |
| 31 | SQD | b | 5006 | - | 53,54,54 | 0.79 | 0 | 62,65,65 | 0.90 | 3 (4%) |
| 21 | CLA | a | 1109 | - | 65,73,73 | 1.29 | 8 (12%) | 76,113,113 | 2.03 | 14 (18%) |
| 21 | CLA | b | 1218 | - | 65,73,73 | 1.31 | 8 (12%) | 76,113,113 | 1.91 | 14 (18%) |
| 22 | PQN | A | 2001 | - | 34,34,34 | 0.41 | 0 | 42,45,45 | 1.21 | 4 (9%) |
| 21 | CLA | k | 1401 | - | 50,58,73 | 1.51 | 9 (18%) | 58,95,113 | 2.16 | 13 (22%) |
| 21 | CLA | A | 1013 | - | 65,73,73 | 1.30 | 9 (13%) | 76,113,113 | 1.97 | 15 (19%) |
| 24 | BCR | b | 4010 | - | 41,41,41 | 0.64 | 0 | 56,56,56 | 3.06 | 7 (12%) |
| 21 | CLA | a | 1110 | - | 59,67,73 | 1.39 | 9 (15%) | 68,105,113 | 2.02 | 13 (19%) |
| 31 | SQD | f | 5001 | - | 53,54,54 | 0.79 | 0 | 62,65,65 | 0.90 | 2 (3%) |
| 21 | CLA | a | 1135 | - | 65,73,73 | 1.33 | 8 (12%) | 76,113,113 | 1.87 | 13 (17%) |
| 21 | CLA | 1 | 1108 | - | 46,54,73 | 1.55 | 9 (19%) | 53,90,113 | 2.13 | 11 (20%) |
| 24 | BCR | 6 | 4016 | - | 41,41,41 | 0.70 | 0 | 56,56,56 | 3.42 | 13 (23%) |
| 25 | LHG | 0 | 5002 | - | 48,48,48 | 0.39 | 0 | 51,54,54 | 1.04 | 2 (3%) |
| 21 | CLA | B | 1204 | - | 65,73,73 | 1.31 | 8 (12%) | 76,113,113 | 1.84 | 12 (15%) |
| 21 | CLA | L | 1503 | 38 | 65,73,73 | 1.29 | 9 (13%) | 76,113,113 | 1.94 | 15 (19%) |
| 21 | CLA | B | 1022 | 38 | 65,73,73 | 1.34 | 8 (12%) | 76,113,113 | 1.84 | 13 (17%) |
| 21 | CLA | J | 1303 | - | 65,73,73 | 1.31 | 9 (13%) | 76,113,113 | 1.96 | 14 (18%) |
| 24 | BCR | 2 | 4004 | - | 41,41,41 | 0.68 | 0 | 56,56,56 | 3.26 | 9 (16%) |
| 21 | CLA | B | 1232 | - | 50,58,73 | 1.51 | 9 (18%) | 58,95,113 | 2.20 | 13 (22%) |
| 24 | BCR | h | 4018 | - | 41,41,41 | 0.69 | 0 | 56,56,56 | 3.34 | 10 (17%) |
| 21 | CLA | a | 1136 | - | 65,73,73 | 1.32 | 9 (13%) | 76,113,113 | 2.08 | 17 (22%) |
| 21 | CLA | B | 1023 | - | 65,73,73 | 1.32 | 9 (13%) | 76,113,113 | 1.99 | 14 (18%) |
| 21 | CLA | 2 | 1218 | - | 65,73,73 | 1.31 | 8 (12%) | 76,113,113 | 1.94 | 16 (21%) |
| 21 | CLA | 2 | 1215 | - | 60,68,73 | 1.36 | 9 (15%) | 70,107,113 | 2.04 | 14 (20%) |
| 21 | CLA | a | 1121 | - | 65,73,73 | 1.31 | 9 (13%) | 76,113,113 | 1.93 | 15 (19%) |
| 21 | CLA | a | 1101 | - | 65,73,73 | 1.32 | 9 (13%) | 76,113,113 | 2.03 | 16 (21%) |
| 21 | CLA | a | 1106 | - | 65,73,73 | 1.29 | 9 (13%) | 76,113,113 | 1.99 | 13 (17%) |
| 21 | CLA | 2 | 1206 | 2 | 65,73,73 | 1.31 | 8 (12%) | 76,113,113 | 2.00 | 14 (18%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 24 | BCR | 1 | 4012 | - | 41,41,41 | 0.68 | 0 | 56,56,56 | 3.22 | 9 (16%) |
| 21 | CLA | b | 1232 | - | 65,73,73 | 1.30 | 9 (13%) | 76,113,113 | 1.92 | 14 (18%) |
| 24 | BCR | A | 4008 | - | 41,41,41 | 0.64 | 0 | 56,56,56 | 2.91 | 9 (16%) |
| 23 | SF4 | c | 3003 | 13 | 0,12,12 | - | - | - | | |
| 21 | CLA | 2 | 1222 | - | 50,58,73 | 1.48 | 7 (14%) | 58,95,113 | 2.22 | 15 (25%) |
| 21 | CLA | A | 1120 | - | 65,73,73 | 1.30 | 7 (10%) | 76,113,113 | 1.98 | 16 (21%) |
| 21 | CLA | b | 1221 | 38 | 65,73,73 | 1.30 | 8 (12%) | 76,113,113 | 2.00 | 14 (18%) |
| 21 | CLA | A | 1119 | 38 | 65,73,73 | 1.28 | 7 (10%) | 76,113,113 | 1.85 | 13 (17%) |
| 21 | CLA | a | 1011 | - | 65,73,73 | 1.33 | 8 (12%) | 76,113,113 | 1.96 | 12 (15%) |
| 21 | CLA | b | 1231 | 38 | 65,73,73 | 1.30 | 9 (13%) | 76,113,113 | 2.04 | 13 (17%) |
| 21 | CLA | 1 | 1117 | - | 65,73,73 | 1.30 | 7 (10%) | 76,113,113 | 1.88 | 13 (17%) |
| 24 | BCR | b | 4018 | - | 41,41,41 | 0.70 | 0 | 56,56,56 | 3.35 | 8 (14%) |
| 26 | LMG | B | 5002 | - | 55,55,55 | 1.14 | 6 (10%) | 63,63,63 | 1.07 | 5 (7%) |
| 34 | ZEX | F | 4016 | - | 42,43,43 | 5.85 | 2 (4%) | 55,60,60 | 7.03 | 13 (23%) |
| 21 | CLA | 2 | 1023 | - | 65,73,73 | 1.32 | 8 (12%) | 76,113,113 | 2.06 | 13 (17%) |
| 21 | CLA | b | 1230 | - | 65,73,73 | 1.28 | 9 (13%) | 76,113,113 | 1.99 | 13 (17%) |
| 21 | CLA | 1 | 1139 | - | 65,73,73 | 1.31 | 9 (13%) | 76,113,113 | 1.96 | 13 (17%) |
| 21 | CLA | 1 | 1130 | - | 55,63,73 | 1.41 | 8 (14%) | 64,101,113 | 2.02 | 14 (21%) |
| 21 | CLA | 1 | 1124 | - | 56,64,73 | 1.41 | 9 (16%) | 65,102,113 | 1.99 | 13 (20%) |
| 24 | BCR | B | 4005 | - | 41,41,41 | 0.67 | 0 | 56,56,56 | 3.22 | 10 (17%) |
| 35 | LMT | l | 6001 | - | 36,36,36 | 1.11 | 4 (11%) | 47,47,47 | 1.20 | 3 (6%) |
| 21 | CLA | A | 1124 | 38 | 65,73,73 | 1.29 | 7 (10%) | 76,113,113 | 1.93 | 15 (19%) |
| 21 | CLA | 2 | 1227 | - | 45,53,73 | 1.60 | 9 (20%) | 52,89,113 | 2.10 | 11 (21%) |
| 21 | CLA | b | 1205 | - | 65,73,73 | 1.29 | 8 (12%) | 76,113,113 | 1.89 | 11 (14%) |
| 21 | CLA | 2 | 1221 | - | 65,73,73 | 1.33 | 9 (13%) | 76,113,113 | 1.96 | 14 (18%) |
| 21 | CLA | b | 1222 | 38 | 65,73,73 | 1.27 | 8 (12%) | 76,113,113 | 1.97 | 15 (19%) |
| 24 | BCR | b | 4005 | - | 41,41,41 | 0.64 | 0 | 56,56,56 | 3.15 | 12 (21%) |
| 21 | CLA | B | 1213 | - | 65,73,73 | 1.33 | 9 (13%) | 76,113,113 | 1.96 | 16 (21%) |
| 21 | CLA | B | 1217 | - | 65,73,73 | 1.33 | 9 (13%) | 76,113,113 | 2.00 | 16 (21%) |
| 23 | SF4 | 3 | 3002 | - | 0,12,12 | - | - | - | | |
| 34 | ZEX | J | 4015 | - | 42,43,43 | 5.80 | 3 (7%) | 55,60,60 | 6.94 | 10 (18%) |
| 24 | BCR | b | 4014 | - | 41,41,41 | 0.71 | 0 | 56,56,56 | 3.19 | 12 (21%) |
| 21 | CLA | B | 1205 | - | 65,73,73 | 1.28 | 7 (10%) | 76,113,113 | 1.92 | 12 (15%) |
| 25 | LHG | 1 | 5003 | 21 | 48,48,48 | 0.40 | 0 | 51,54,54 | 1.09 | 3 (5%) |
| 24 | BCR | j | 4013 | - | 41,41,41 | 0.74 | 0 | 56,56,56 | 3.24 | 13 (23%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 30 | ECH | B | 4006 | - | 42,42,42 | 0.91 | 2 (4%) | 55,58,58 | 2.52 | 15 (27%) |
| 21 | CLA | l | 1503 | - | 65,73,73 | 1.26 | 7 (10%) | 76,113,113 | 1.92 | 14 (18%) |
| 26 | LMG | a | 5002 | - | 50,50,55 | 1.04 | 4 (8%) | 58,58,63 | 1.09 | 2 (3%) |
| 21 | CLA | b | 1219 | - | 60,68,73 | 1.37 | 8 (13%) | 70,107,113 | 1.99 | 14 (20%) |
| 21 | CLA | a | 1138 | - | 65,73,73 | 1.32 | 9 (13%) | 76,113,113 | 1.94 | 11 (14%) |
| 21 | CLA | l | 1134 | 16 | 65,73,73 | 1.30 | 9 (13%) | 76,113,113 | 1.94 | 13 (17%) |
| 21 | CLA | B | 1228 | - | 65,73,73 | 1.29 | 8 (12%) | 76,113,113 | 1.90 | 13 (17%) |
| 21 | CLA | l | 1128 | - | 65,73,73 | 1.31 | 8 (12%) | 76,113,113 | 1.98 | 14 (18%) |
| 21 | CLA | 2 | 1229 | - | 65,73,73 | 1.30 | 8 (12%) | 76,113,113 | 1.97 | 13 (17%) |
| 21 | CLA | a | 1107 | 1 | 50,58,73 | 1.50 | 8 (16%) | 58,95,113 | 2.22 | 16 (27%) |
| 24 | BCR | f | 4016 | - | 41,41,41 | 0.73 | 0 | 56,56,56 | 3.28 | 12 (21%) |
| 24 | BCR | L | 4022 | - | 41,41,41 | 0.61 | 0 | 56,56,56 | 3.06 | 10 (17%) |
| 21 | CLA | A | 1130 | - | 60,68,73 | 1.36 | 8 (13%) | 70,107,113 | 2.06 | 16 (22%) |
| 21 | CLA | B | 1211 | - | 65,73,73 | 1.32 | 8 (12%) | 76,113,113 | 1.91 | 13 (17%) |
| 21 | CLA | a | 1113 | - | 50,58,73 | 1.50 | 9 (18%) | 58,95,113 | 2.19 | 15 (25%) |
| 25 | LHG | A | 5005 | - | 48,48,48 | 0.40 | 0 | 51,54,54 | 1.09 | 4 (7%) |
| 21 | CLA | A | 1140 | - | 65,73,73 | 1.30 | 9 (13%) | 76,113,113 | 1.93 | 14 (18%) |
| 24 | BCR | 9 | 4021 | - | 41,41,41 | 0.67 | 0 | 56,56,56 | 3.27 | 17 (30%) |
| 21 | CLA | A | 1111 | - | 65,73,73 | 1.30 | 9 (13%) | 76,113,113 | 1.95 | 15 (19%) |
| 21 | CLA | F | 1301 | 38 | 65,73,73 | 1.31 | 8 (12%) | 76,113,113 | 1.87 | 13 (17%) |
| 21 | CLA | l | 1123 | - | 65,73,73 | 1.32 | 9 (13%) | 76,113,113 | 1.91 | 13 (17%) |
| 21 | CLA | a | 1118 | - | 65,73,73 | 1.31 | 9 (13%) | 76,113,113 | 1.84 | 14 (18%) |
| 24 | BCR | i | 4018 | - | 41,41,41 | 0.70 | 0 | 56,56,56 | 3.39 | 12 (21%) |
| 24 | BCR | A | 4007 | - | 41,41,41 | 0.63 | 0 | 56,56,56 | 2.90 | 13 (23%) |
| 21 | CLA | l | 1502 | - | 65,73,73 | 1.29 | 8 (12%) | 76,113,113 | 1.93 | 13 (17%) |
| 21 | CLA | A | 1115 | - | 65,73,73 | 1.29 | 8 (12%) | 76,113,113 | 1.89 | 13 (17%) |
| 26 | LMG | B | 5005 | - | 55,55,55 | 1.13 | 6 (10%) | 63,63,63 | 1.09 | 3 (4%) |
| 24 | BCR | L | 4019 | - | 41,41,41 | 0.69 | 0 | 56,56,56 | 2.85 | 14 (25%) |
| 21 | CLA | B | 1239 | - | 65,73,73 | 1.33 | 9 (13%) | 76,113,113 | 1.96 | 13 (17%) |
| 21 | CLA | b | 1211 | - | 65,73,73 | 1.29 | 9 (13%) | 76,113,113 | 1.92 | 10 (13%) |
| 21 | CLA | b | 1209 | - | 65,73,73 | 1.31 | 8 (12%) | 76,113,113 | 2.03 | 16 (21%) |
| 21 | CLA | b | 1239 | - | 65,73,73 | 1.33 | 9 (13%) | 76,113,113 | 1.95 | 12 (15%) |
| 21 | CLA | 2 | 1208 | - | 60,68,73 | 1.38 | 8 (13%) | 70,107,113 | 1.94 | 13 (18%) |
| 21 | CLA | 2 | 1203 | - | 65,73,73 | 1.30 | 9 (13%) | 76,113,113 | 1.90 | 14 (18%) |
| 21 | CLA | A | 1133 | - | 65,73,73 | 1.32 | 8 (12%) | 76,113,113 | 1.82 | 10 (13%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 21 | CLA | 2 | 1219 | - | 53,61,73 | 1.46 | 9 (16%) | 61,98,113 | 2.15 | 16 (26%) |
| 21 | CLA | 1 | 1121 | - | 55,63,73 | 1.42 | 9 (16%) | 64,101,113 | 2.06 | 14 (21%) |
| 21 | CLA | A | 1801 | 25 | 65,73,73 | 1.29 | 8 (12%) | 76,113,113 | 1.99 | 14 (18%) |
| 21 | CLA | 8 | 1402 | - | 46,54,73 | 1.54 | 8 (17%) | 53,90,113 | 2.14 | 12 (22%) |
| 28 | 45D | B | 4011 | - | 43,43,43 | 3.44 | 15 (34%) | 54,60,60 | 2.24 | 18 (33%) |
| 21 | CLA | A | 1110 | - | 65,73,73 | 1.32 | 8 (12%) | 76,113,113 | 1.85 | 11 (14%) |
| 21 | CLA | 2 | 1239 | - | 65,73,73 | 1.32 | 9 (13%) | 76,113,113 | 1.95 | 15 (19%) |
| 21 | CLA | 2 | 1202 | - | 65,73,73 | 1.30 | 8 (12%) | 76,113,113 | 1.95 | 14 (18%) |
| 21 | CLA | a | 1126 | - | 65,73,73 | 1.29 | 8 (12%) | 76,113,113 | 2.07 | 13 (17%) |
| 21 | CLA | B | 1206 | 2 | 65,73,73 | 1.31 | 9 (13%) | 76,113,113 | 1.98 | 14 (18%) |
| 21 | CLA | 1 | 1135 | - | 52,60,73 | 1.47 | 8 (15%) | 60,97,113 | 2.13 | 14 (23%) |
| 21 | CLA | 2 | 1230 | - | 47,55,73 | 1.54 | 9 (19%) | 54,91,113 | 2.22 | 14 (25%) |
| 25 | LHG | B | 5004 | - | 48,48,48 | 0.37 | 0 | 51,54,54 | 1.12 | 3 (5%) |
| 21 | CLA | A | 1137 | - | 65,73,73 | 1.33 | 9 (13%) | 76,113,113 | 1.83 | 12 (15%) |
| 21 | CLA | B | 1216 | 38 | 65,73,73 | 1.34 | 9 (13%) | 76,113,113 | 1.91 | 13 (17%) |
| 25 | LHG | l | 5004 | - | 48,48,48 | 0.39 | 0 | 51,54,54 | 1.04 | 3 (5%) |
| 21 | CLA | A | 1134 | 1 | 65,73,73 | 1.32 | 9 (13%) | 76,113,113 | 1.92 | 14 (18%) |
| 21 | CLA | B | 1221 | - | 65,73,73 | 1.30 | 9 (13%) | 76,113,113 | 1.92 | 14 (18%) |
| 21 | CLA | 2 | 1228 | - | 45,53,73 | 1.56 | 9 (20%) | 52,89,113 | 2.26 | 12 (23%) |
| 21 | CLA | 2 | 1235 | - | 53,61,73 | 1.44 | 9 (16%) | 61,98,113 | 2.13 | 12 (19%) |
| 21 | CLA | a | 1117 | - | 65,73,73 | 1.31 | 8 (12%) | 76,113,113 | 1.91 | 12 (15%) |
| 21 | CLA | b | 1206 | 12 | 65,73,73 | 1.32 | 9 (13%) | 76,113,113 | 1.90 | 14 (18%) |
| 25 | LHG | b | 5004 | - | 48,48,48 | 0.39 | 0 | 51,54,54 | 1.08 | 3 (5%) |
| 31 | SQD | L | 5001 | - | 50,51,54 | 0.80 | 0 | 59,62,65 | 0.93 | 4 (6%) |
| 21 | CLA | 1 | 1107 | - | 51,59,73 | 1.48 | 8 (15%) | 59,96,113 | 2.14 | 14 (23%) |
| 21 | CLA | 1 | 1105 | - | 50,58,73 | 1.51 | 9 (18%) | 58,95,113 | 2.13 | 13 (22%) |
| 21 | CLA | b | 1201 | - | 65,73,73 | 1.31 | 9 (13%) | 76,113,113 | 1.85 | 13 (17%) |
| 26 | LMG | 2 | 5005 | - | 55,55,55 | 1.14 | 6 (10%) | 63,63,63 | 1.07 | 2 (3%) |
| 25 | LHG | a | 5007 | - | 48,48,48 | 0.40 | 0 | 51,54,54 | 1.02 | 3 (5%) |
| 21 | CLA | A | 1125 | - | 65,73,73 | 1.30 | 7 (10%) | 76,113,113 | 1.97 | 16 (21%) |
| 21 | CLA | a | 1133 | - | 65,73,73 | 1.32 | 9 (13%) | 76,113,113 | 1.89 | 13 (17%) |
| 21 | CLA | b | 1214 | - | 65,73,73 | 1.31 | 8 (12%) | 76,113,113 | 1.86 | 13 (17%) |
| 26 | LMG | A | 5002 | - | 50,50,55 | 1.06 | 5 (10%) | 58,58,63 | 1.17 | 4 (6%) |
| 21 | CLA | A | 1126 | - | 65,73,73 | 1.30 | 7 (10%) | 76,113,113 | 1.92 | 11 (14%) |
| 21 | CLA | 1 | 1106 | 16 | 65,73,73 | 1.28 | 7 (10%) | 76,113,113 | 1.92 | 12 (15%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 21 | CLA | a | 1123 | 1 | 65,73,73 | 1.33 | 9 (13%) | 76,113,113 | 1.93 | 13 (17%) |
| 25 | LHG | l | 5001 | - | 48,48,48 | 0.39 | 0 | 51,54,54 | 1.09 | 3 (5%) |
| 24 | BCR | b | 4017 | - | 41,41,41 | 0.63 | 0 | 56,56,56 | 3.28 | 10 (17%) |
| 24 | BCR | A | 4012 | - | 41,41,41 | 0.71 | 0 | 56,56,56 | 3.11 | 10 (17%) |
| 24 | BCR | 2 | 4018 | - | 41,41,41 | 0.76 | 0 | 56,56,56 | 3.24 | 19 (33%) |
| 21 | CLA | A | 1135 | - | 65,73,73 | 1.30 | 9 (13%) | 76,113,113 | 1.97 | 14 (18%) |
| 23 | SF4 | A | 3001 | 2,1 | 0,12,12 | - | - | - | - | - |
| 34 | ZEX | 7 | 4015 | - | 42,43,43 | 5.79 | 4 (9%) | 55,60,60 | 6.95 | 12 (21%) |
| 21 | CLA | B | 1234 | - | 65,73,73 | 1.31 | 8 (12%) | 76,113,113 | 1.97 | 13 (17%) |
| 21 | CLA | A | 1118 | - | 65,73,73 | 1.32 | 9 (13%) | 76,113,113 | 1.82 | 11 (14%) |
| 21 | CLA | a | 1129 | - | 52,60,73 | 1.47 | 8 (15%) | 60,97,113 | 2.10 | 15 (25%) |
| 21 | CLA | j | 1302 | - | 65,73,73 | 1.30 | 9 (13%) | 76,113,113 | 1.98 | 12 (15%) |
| 21 | CLA | l | 1101 | - | 65,73,73 | 1.33 | 9 (13%) | 76,113,113 | 1.97 | 14 (18%) |
| 36 | EQ3 | I | 4020 | - | 43,43,43 | 4.12 | 25 (58%) | 56,60,60 | 2.21 | 22 (39%) |
| 21 | CLA | b | 1225 | - | 65,73,73 | 1.28 | 7 (10%) | 76,113,113 | 1.83 | 12 (15%) |
| 22 | PQN | b | 2002 | - | 34,34,34 | 0.77 | 2 (5%) | 42,45,45 | 1.27 | 5 (11%) |
| 21 | CLA | 2 | 1237 | 38 | 65,73,73 | 1.29 | 8 (12%) | 76,113,113 | 1.90 | 14 (18%) |
| 24 | BCR | 1 | 4003 | - | 41,41,41 | 0.69 | 0 | 56,56,56 | 3.25 | 11 (19%) |
| 24 | BCR | 2 | 4010 | - | 41,41,41 | 0.74 | 0 | 56,56,56 | 3.62 | 14 (25%) |
| 21 | CLA | a | 1134 | 1 | 49,57,73 | 1.52 | 9 (18%) | 55,93,113 | 2.25 | 14 (25%) |
| 23 | SF4 | a | 3001 | 12,1 | 0,12,12 | - | - | - | - | - |
| 21 | CLA | 2 | 1212 | - | 41,49,73 | 1.63 | 8 (19%) | 47,84,113 | 2.38 | 13 (27%) |
| 21 | CLA | a | 1104 | - | 65,73,73 | 1.29 | 8 (12%) | 76,113,113 | 1.92 | 14 (18%) |
| 21 | CLA | b | 1213 | - | 65,73,73 | 1.30 | 9 (13%) | 76,113,113 | 1.99 | 15 (19%) |
| 21 | CLA | 2 | 1240 | - | 41,49,73 | 1.64 | 9 (21%) | 47,84,113 | 2.32 | 12 (25%) |
| 21 | CLA | 2 | 1220 | - | 45,53,73 | 1.58 | 9 (20%) | 52,89,113 | 2.14 | 12 (23%) |
| 24 | BCR | B | 4018 | - | 41,41,41 | 0.72 | 0 | 56,56,56 | 3.45 | 14 (25%) |
| 21 | CLA | a | 1131 | - | 65,73,73 | 1.31 | 9 (13%) | 76,113,113 | 1.84 | 12 (15%) |
| 25 | LHG | 2 | 5004 | - | 48,48,48 | 0.39 | 0 | 51,54,54 | 1.02 | 3 (5%) |
| 24 | BCR | l | 4022 | - | 41,41,41 | 0.69 | 0 | 56,56,56 | 3.22 | 12 (21%) |
| 21 | CLA | 2 | 1213 | - | 50,58,73 | 1.48 | 8 (16%) | 58,95,113 | 2.25 | 12 (20%) |
| 21 | CLA | A | 1106 | 1 | 65,73,73 | 1.28 | 7 (10%) | 76,113,113 | 1.91 | 13 (17%) |
| 21 | CLA | 1 | 1109 | 16 | 65,73,73 | 1.31 | 9 (13%) | 76,113,113 | 1.97 | 12 (15%) |
| 21 | CLA | B | 1210 | - | 65,73,73 | 1.33 | 9 (13%) | 76,113,113 | 1.90 | 15 (19%) |
| 21 | CLA | a | 1132 | - | 65,73,73 | 1.30 | 8 (12%) | 76,113,113 | 1.89 | 13 (17%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 24 | BCR | k | 4001 | - | 41,41,41 | 0.67 | 0 | 56,56,56 | 3.16 | 10 (17%) |
| 21 | CLA | B | 1208 | - | 65,73,73 | 1.30 | 7 (10%) | 76,113,113 | 1.91 | 14 (18%) |
| 30 | ECH | m | 4021 | - | 42,42,42 | 0.65 | 0 | 55,58,58 | 1.68 | 10 (18%) |
| 21 | CLA | k | 1402 | - | 49,57,73 | 1.50 | 9 (18%) | 55,93,113 | 2.32 | 14 (25%) |
| 21 | CLA | 1 | 1113 | - | 44,52,73 | 1.59 | 8 (18%) | 49,87,113 | 2.26 | 12 (24%) |
| 24 | BCR | 2 | 4014 | - | 41,41,41 | 0.72 | 0 | 56,56,56 | 3.32 | 13 (23%) |
| 21 | CLA | a | 1130 | - | 65,73,73 | 1.31 | 9 (13%) | 76,113,113 | 1.87 | 11 (14%) |
| 25 | LHG | F | 5002 | - | 48,48,48 | 0.37 | 0 | 51,54,54 | 0.96 | 2 (3%) |
| 21 | CLA | b | 1237 | 38 | 65,73,73 | 1.29 | 7 (10%) | 76,113,113 | 1.90 | 15 (19%) |
| 21 | CLA | 1 | 1131 | - | 65,73,73 | 1.31 | 8 (12%) | 76,113,113 | 1.87 | 12 (15%) |
| 24 | BCR | A | 4003 | - | 41,41,41 | 0.69 | 0 | 56,56,56 | 3.15 | 13 (23%) |
| 21 | CLA | b | 1204 | - | 65,73,73 | 1.32 | 8 (12%) | 76,113,113 | 1.80 | 13 (17%) |
| 22 | PQN | a | 2001 | - | 34,34,34 | 0.47 | 0 | 42,45,45 | 1.01 | 2 (4%) |
| 21 | CLA | b | 1229 | - | 65,73,73 | 1.31 | 8 (12%) | 76,113,113 | 1.94 | 13 (17%) |
| 24 | BCR | a | 4007 | - | 41,41,41 | 0.65 | 0 | 56,56,56 | 3.09 | 12 (21%) |
| 21 | CLA | 2 | 1201 | - | 65,73,73 | 1.30 | 8 (12%) | 76,113,113 | 2.02 | 14 (18%) |
| 25 | LHG | A | 5007 | - | 48,48,48 | 0.40 | 0 | 51,54,54 | 1.11 | 3 (5%) |
| 21 | CLA | 1 | 1119 | 38 | 65,73,73 | 1.29 | 7 (10%) | 76,113,113 | 1.99 | 14 (18%) |
| 21 | CLA | 2 | 1205 | - | 65,73,73 | 1.30 | 9 (13%) | 76,113,113 | 2.00 | 13 (17%) |
| 26 | LMG | K | 5009 | - | 55,55,55 | 1.17 | 7 (12%) | 63,63,63 | 1.26 | 5 (7%) |
| 27 | ACT | B | 7001 | - | 3,3,3 | 1.33 | 0 | 3,3,3 | 1.54 | 0 |
| 21 | CLA | a | 1119 | - | 65,73,73 | 1.29 | 8 (12%) | 76,113,113 | 1.89 | 15 (19%) |
| 21 | CLA | A | 1113 | - | 65,73,73 | 1.33 | 8 (12%) | 76,113,113 | 1.91 | 15 (19%) |
| 21 | CLA | 2 | 1214 | - | 59,67,73 | 1.38 | 9 (15%) | 68,105,113 | 1.94 | 15 (22%) |
| 23 | SF4 | C | 3003 | 3 | 0,12,12 | - | - | - | - | - |
| 21 | CLA | 1 | 1140 | - | 65,73,73 | 1.32 | 8 (12%) | 76,113,113 | 1.91 | 14 (18%) |
| 21 | CLA | B | 1223 | - | 65,73,73 | 1.33 | 9 (13%) | 76,113,113 | 1.91 | 13 (17%) |
| 31 | SQD | B | 5008 | - | 53,54,54 | 0.80 | 0 | 62,65,65 | 0.91 | 3 (4%) |
| 21 | CLA | b | 1021 | - | 65,73,73 | 1.33 | 10 (15%) | 76,113,113 | 1.83 | 11 (14%) |
| 24 | BCR | K | 4001 | - | 41,41,41 | 0.58 | 0 | 56,56,56 | 3.17 | 16 (28%) |
| 21 | CLA | j | 1303 | - | 55,63,73 | 1.44 | 9 (16%) | 64,101,113 | 2.03 | 13 (20%) |
| 21 | CLA | L | 1502 | - | 65,73,73 | 1.27 | 7 (10%) | 76,113,113 | 1.93 | 14 (18%) |
| 21 | CLA | A | 1108 | - | 53,61,73 | 1.43 | 9 (16%) | 61,98,113 | 2.13 | 11 (18%) |
| 21 | CLA | B | 1222 | 38 | 55,63,73 | 1.38 | 8 (14%) | 64,101,113 | 2.09 | 14 (21%) |
| 21 | CLA | b | 1227 | - | 65,73,73 | 1.28 | 8 (12%) | 76,113,113 | 1.88 | 14 (18%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 24 | BCR | J | 4013 | - | 41,41,41 | 0.69 | 0 | 56,56,56 | 3.22 | 12 (21%) |
| 21 | CLA | a | 1108 | - | 57,65,73 | 1.41 | 9 (15%) | 66,103,113 | 2.07 | 14 (21%) |
| 21 | CLA | 0 | 1501 | 20 | 65,73,73 | 1.29 | 9 (13%) | 76,113,113 | 1.87 | 13 (17%) |
| 24 | BCR | B | 4004 | - | 41,41,41 | 0.68 | 0 | 56,56,56 | 3.19 | 12 (21%) |
| 21 | CLA | 2 | 1236 | - | 50,58,73 | 1.49 | 9 (18%) | 58,95,113 | 2.09 | 13 (22%) |
| 21 | CLA | 1 | 1133 | - | 65,73,73 | 1.33 | 9 (13%) | 76,113,113 | 1.93 | 12 (15%) |
| 21 | CLA | 1 | 1136 | - | 65,73,73 | 1.32 | 8 (12%) | 76,113,113 | 1.92 | 13 (17%) |
| 35 | LMT | F | 6001 | - | 36,36,36 | 1.15 | 5 (13%) | 47,47,47 | 0.99 | 1 (2%) |
| 21 | CLA | 2 | 1209 | - | 45,53,73 | 1.61 | 9 (20%) | 52,89,113 | 2.18 | 11 (21%) |
| 21 | CLA | 1 | 1127 | - | 65,73,73 | 1.34 | 9 (13%) | 76,113,113 | 1.81 | 12 (15%) |
| 26 | LMG | b | 5002 | - | 55,55,55 | 1.13 | 6 (10%) | 63,63,63 | 1.18 | 6 (9%) |
| 21 | CLA | b | 1238 | 38 | 65,73,73 | 1.31 | 7 (10%) | 76,113,113 | 1.88 | 14 (18%) |
| 21 | CLA | A | 1122 | - | 60,68,73 | 1.36 | 8 (13%) | 70,107,113 | 1.93 | 15 (21%) |
| 21 | CLA | a | 1012 | 38 | 65,73,73 | 1.30 | 8 (12%) | 76,113,113 | 1.94 | 16 (21%) |
| 21 | CLA | a | 1124 | - | 55,63,73 | 1.38 | 9 (16%) | 64,101,113 | 2.11 | 14 (21%) |
| 21 | CLA | 2 | 1217 | - | 52,60,73 | 1.49 | 9 (17%) | 60,97,113 | 2.09 | 14 (23%) |
| 25 | LHG | A | 5001 | - | 48,48,48 | 0.41 | 0 | 51,54,54 | 1.11 | 3 (5%) |
| 24 | BCR | 2 | 4017 | - | 41,41,41 | 0.65 | 0 | 56,56,56 | 3.23 | 12 (21%) |
| 26 | LMG | A | 5004 | - | 48,48,55 | 0.98 | 4 (8%) | 56,56,63 | 1.09 | 3 (5%) |
| 24 | BCR | 1 | 4008 | - | 41,41,41 | 0.62 | 0 | 56,56,56 | 3.19 | 10 (17%) |
| 30 | ECH | 2 | 4006 | - | 42,42,42 | 0.80 | 1 (2%) | 55,58,58 | 2.53 | 16 (29%) |
| 21 | CLA | 2 | 1210 | - | 65,73,73 | 1.31 | 9 (13%) | 76,113,113 | 1.93 | 14 (18%) |
| 21 | CLA | B | 1212 | - | 55,63,73 | 1.43 | 9 (16%) | 64,101,113 | 2.05 | 13 (20%) |
| 30 | ECH | i | 4020 | - | 42,42,42 | 0.81 | 1 (2%) | 55,58,58 | 2.40 | 17 (30%) |
| 31 | SQD | L | 5002 | - | 53,54,54 | 0.80 | 0 | 62,65,65 | 0.89 | 3 (4%) |
| 26 | LMG | b | 5007 | - | 55,55,55 | 1.14 | 6 (10%) | 63,63,63 | 1.14 | 3 (4%) |
| 30 | ECH | M | 4021 | - | 42,42,42 | 0.65 | 0 | 55,58,58 | 1.68 | 11 (20%) |
| 21 | CLA | A | 1117 | - | 65,73,73 | 1.32 | 8 (12%) | 76,113,113 | 1.88 | 13 (17%) |
| 21 | CLA | B | 1238 | 38 | 65,73,73 | 1.32 | 8 (12%) | 76,113,113 | 1.79 | 12 (15%) |
| 25 | LHG | a | 5005 | - | 48,48,48 | 0.38 | 0 | 51,54,54 | 1.10 | 3 (5%) |
| 21 | CLA | 1 | 1104 | - | 65,73,73 | 1.29 | 9 (13%) | 76,113,113 | 1.94 | 14 (18%) |
| 21 | CLA | A | 1139 | 38 | 65,73,73 | 1.30 | 9 (13%) | 76,113,113 | 1.91 | 10 (13%) |
| 21 | CLA | B | 1224 | - | 65,73,73 | 1.29 | 8 (12%) | 76,113,113 | 1.91 | 12 (15%) |
| 21 | CLA | B | 1215 | - | 65,73,73 | 1.30 | 8 (12%) | 76,113,113 | 1.93 | 14 (18%) |
| 21 | CLA | b | 1235 | - | 65,73,73 | 1.29 | 8 (12%) | 76,113,113 | 1.92 | 13 (17%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 21 | CLA | 2 | 1204 | - | 65,73,73 | 1.30 | 8 (12%) | 76,113,113 | 1.95 | 13 (17%) |
| 23 | SF4 | 3 | 3003 | - | 0,12,12 | - | - | - | | |
| 24 | BCR | A | 4002 | - | 41,41,41 | 0.66 | 0 | 56,56,56 | 3.14 | 17 (30%) |
| 21 | CLA | a | 1139 | 38 | 65,73,73 | 1.32 | 9 (13%) | 76,113,113 | 1.93 | 13 (17%) |
| 27 | ACT | a | 7001 | - | 3,3,3 | 1.31 | 0 | 3,3,3 | 1.38 | 0 |
| 21 | CLA | B | 1237 | 38 | 65,73,73 | 1.28 | 7 (10%) | 76,113,113 | 1.88 | 13 (17%) |
| 24 | BCR | B | 4010 | - | 41,41,41 | 0.65 | 0 | 56,56,56 | 3.18 | 11 (19%) |
| 21 | CLA | B | 1214 | - | 65,73,73 | 1.32 | 9 (13%) | 76,113,113 | 1.84 | 13 (17%) |
| 26 | LMG | 1 | 5002 | - | 50,50,55 | 1.03 | 5 (10%) | 58,58,63 | 1.06 | 2 (3%) |
| 21 | CLA | 1 | 1138 | - | 60,68,73 | 1.39 | 9 (15%) | 70,107,113 | 1.97 | 13 (18%) |
| 21 | CLA | 1 | 1126 | - | 65,73,73 | 1.30 | 8 (12%) | 76,113,113 | 1.98 | 13 (17%) |
| 24 | BCR | a | 4001 | - | 41,41,41 | 0.70 | 0 | 56,56,56 | 3.44 | 14 (25%) |
| 21 | CLA | b | 1023 | - | 65,73,73 | 1.29 | 8 (12%) | 76,113,113 | 2.08 | 15 (19%) |
| 21 | CLA | 6 | 1301 | 38 | 47,55,73 | 1.54 | 9 (19%) | 54,91,113 | 2.09 | 14 (25%) |
| 35 | LMT | 1 | 6001 | - | 36,36,36 | 1.15 | 4 (11%) | 47,47,47 | 0.98 | 3 (6%) |
| 23 | SF4 | 1 | 3001 | 2,16 | 0,12,12 | - | - | - | | |
| 21 | CLA | A | 1109 | 21 | 65,73,73 | 1.29 | 8 (12%) | 76,113,113 | 1.93 | 13 (17%) |
| 21 | CLA | B | 1235 | - | 65,73,73 | 1.28 | 8 (12%) | 76,113,113 | 2.04 | 11 (14%) |
| 35 | LMT | L | 6001 | - | 36,36,36 | 1.15 | 5 (13%) | 47,47,47 | 1.16 | 4 (8%) |
| 21 | CLA | 1 | 1118 | - | 65,73,73 | 1.30 | 8 (12%) | 76,113,113 | 1.92 | 14 (18%) |
| 21 | CLA | 1 | 1011 | - | 65,73,73 | 1.33 | 8 (12%) | 76,113,113 | 1.96 | 13 (17%) |
| 21 | CLA | a | 1115 | - | 65,73,73 | 1.31 | 8 (12%) | 76,113,113 | 1.94 | 12 (15%) |
| 21 | CLA | 2 | 1207 | - | 56,64,73 | 1.42 | 9 (16%) | 65,102,113 | 2.04 | 14 (21%) |
| 24 | BCR | a | 4003 | - | 41,41,41 | 0.73 | 0 | 56,56,56 | 3.31 | 11 (19%) |
| 21 | CLA | B | 1218 | - | 65,73,73 | 1.30 | 9 (13%) | 76,113,113 | 1.93 | 14 (18%) |
| 25 | LHG | 0 | 5004 | - | 48,48,48 | 0.39 | 0 | 51,54,54 | 1.03 | 3 (5%) |
| 24 | BCR | a | 4002 | - | 41,41,41 | 0.65 | 0 | 56,56,56 | 3.53 | 12 (21%) |
| 22 | PQN | 2 | 2002 | - | 34,34,34 | 0.38 | 0 | 42,45,45 | 1.27 | 3 (7%) |
| 22 | PQN | 1 | 2001 | - | 34,34,34 | 0.44 | 0 | 42,45,45 | 1.09 | 3 (7%) |
| 21 | CLA | A | 1012 | 38 | 65,73,73 | 1.32 | 8 (12%) | 76,113,113 | 2.01 | 14 (18%) |
| 26 | LMG | A | 5008 | - | 55,55,55 | 1.14 | 6 (10%) | 63,63,63 | 1.04 | 2 (3%) |
| 21 | CLA | A | 1116 | - | 65,73,73 | 1.31 | 9 (13%) | 76,113,113 | 1.86 | 12 (15%) |
| 24 | BCR | 1 | 4019 | - | 41,41,41 | 0.67 | 0 | 56,56,56 | 3.36 | 8 (14%) |
| 21 | CLA | J | 1302 | 8 | 65,73,73 | 1.32 | 9 (13%) | 76,113,113 | 2.01 | 13 (17%) |
| 25 | LHG | a | 5003 | 21 | 48,48,48 | 0.39 | 0 | 51,54,54 | 1.05 | 3 (5%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 24 | BCR | l | 4019 | - | 41,41,41 | 0.63 | 0 | 56,56,56 | 2.88 | 12 (21%) |
| 31 | SQD | F | 5001 | - | 53,54,54 | 0.80 | 0 | 62,65,65 | 0.92 | 2 (3%) |
| 21 | CLA | F | 1302 | 6 | 65,73,73 | 1.33 | 9 (13%) | 76,113,113 | 1.91 | 13 (17%) |
| 21 | CLA | 1 | 1102 | - | 55,63,73 | 1.40 | 8 (14%) | 64,101,113 | 2.15 | 17 (26%) |
| 25 | LHG | 6 | 5001 | - | 11,11,48 | 0.48 | 0 | 12,14,54 | 0.52 | 0 |
| 21 | CLA | b | 1216 | 38 | 65,73,73 | 1.32 | 9 (13%) | 76,113,113 | 1.91 | 12 (15%) |
| 21 | CLA | a | 1116 | - | 60,68,73 | 1.37 | 9 (15%) | 70,107,113 | 2.00 | 13 (18%) |
| 21 | CLA | A | 1011 | - | 65,73,73 | 1.33 | 9 (13%) | 76,113,113 | 2.18 | 19 (25%) |
| 25 | LHG | A | 5003 | 21 | 48,48,48 | 0.40 | 0 | 51,54,54 | 1.02 | 4 (7%) |
| 21 | CLA | a | 1137 | - | 50,58,73 | 1.52 | 9 (18%) | 58,95,113 | 2.12 | 13 (22%) |
| 21 | CLA | a | 1127 | - | 65,73,73 | 1.32 | 9 (13%) | 76,113,113 | 1.91 | 13 (17%) |
| 25 | LHG | B | 5006 | - | 48,48,48 | 0.39 | 0 | 51,54,54 | 1.06 | 3 (5%) |
| 21 | CLA | B | 1227 | - | 55,63,73 | 1.43 | 9 (16%) | 64,101,113 | 2.03 | 12 (18%) |
| 21 | CLA | b | 1236 | - | 65,73,73 | 1.32 | 8 (12%) | 76,113,113 | 1.90 | 12 (15%) |
| 30 | ECH | b | 4011 | - | 42,42,42 | 0.82 | 1 (2%) | 55,58,58 | 2.42 | 15 (27%) |
| 21 | CLA | l | 1501 | 10 | 65,73,73 | 1.29 | 8 (12%) | 76,113,113 | 1.94 | 17 (22%) |
| 25 | LHG | L | 5005 | - | 48,48,48 | 0.40 | 0 | 51,54,54 | 0.95 | 2 (3%) |
| 21 | CLA | K | 1401 | 38 | 65,73,73 | 1.30 | 7 (10%) | 76,113,113 | 1.98 | 15 (19%) |
| 21 | CLA | B | 1229 | - | 65,73,73 | 1.30 | 9 (13%) | 76,113,113 | 2.00 | 11 (14%) |
| 25 | LHG | 1 | 5007 | - | 48,48,48 | 0.40 | 0 | 51,54,54 | 1.02 | 2 (3%) |
| 21 | CLA | B | 1203 | - | 65,73,73 | 1.30 | 9 (13%) | 76,113,113 | 1.87 | 11 (14%) |
| 24 | BCR | A | 4019 | - | 41,41,41 | 0.71 | 0 | 56,56,56 | 3.60 | 14 (25%) |
| 21 | CLA | B | 1202 | - | 65,73,73 | 1.30 | 8 (12%) | 76,113,113 | 1.94 | 14 (18%) |
| 21 | CLA | a | 1125 | - | 65,73,73 | 1.31 | 9 (13%) | 76,113,113 | 2.01 | 15 (19%) |
| 24 | BCR | 8 | 4001 | - | 41,41,41 | 0.66 | 0 | 56,56,56 | 3.23 | 10 (17%) |
| 21 | CLA | 2 | 1224 | - | 55,63,73 | 1.39 | 8 (14%) | 64,101,113 | 2.10 | 14 (21%) |
| 21 | CLA | A | 1102 | 21 | 65,73,73 | 1.30 | 8 (12%) | 76,113,113 | 1.96 | 15 (19%) |
| 21 | CLA | b | 1215 | - | 65,73,73 | 1.30 | 8 (12%) | 76,113,113 | 2.00 | 15 (19%) |
| 25 | LHG | M | 5001 | - | 48,48,48 | 0.41 | 0 | 51,54,54 | 1.11 | 3 (5%) |
| 24 | BCR | 7 | 4013 | - | 41,41,41 | 0.71 | 0 | 56,56,56 | 3.29 | 15 (26%) |
| 30 | ECH | b | 4006 | - | 42,42,42 | 0.72 | 1 (2%) | 55,58,58 | 2.25 | 15 (27%) |
| 21 | CLA | 1 | 1137 | - | 51,59,73 | 1.49 | 9 (17%) | 59,96,113 | 2.14 | 13 (22%) |
| 21 | CLA | b | 1226 | - | 65,73,73 | 1.33 | 8 (12%) | 76,113,113 | 1.86 | 14 (18%) |
| 21 | CLA | B | 1240 | - | 65,73,73 | 1.32 | 9 (13%) | 76,113,113 | 1.92 | 15 (19%) |
| 21 | CLA | B | 1220 | - | 57,65,73 | 1.40 | 8 (14%) | 66,103,113 | 2.05 | 14 (21%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 21 | CLA | 2 | 1232 | - | 45,53,73 | 1.57 | 9 (20%) | 52,89,113 | 2.17 | 11 (21%) |
| 21 | CLA | A | 1132 | - | 65,73,73 | 1.31 | 8 (12%) | 76,113,113 | 1.87 | 12 (15%) |
| 21 | CLA | a | 1013 | - | 65,73,73 | 1.28 | 9 (13%) | 76,113,113 | 1.96 | 12 (15%) |
| 21 | CLA | 1 | 1114 | - | 45,53,73 | 1.57 | 9 (20%) | 52,89,113 | 2.08 | 12 (23%) |
| 31 | SQD | 0 | 5005 | - | 53,54,54 | 0.80 | 0 | 62,65,65 | 0.89 | 3 (4%) |
| 21 | CLA | A | 1114 | 38 | 65,73,73 | 1.32 | 8 (12%) | 76,113,113 | 1.84 | 12 (15%) |
| 21 | CLA | b | 1210 | - | 65,73,73 | 1.30 | 9 (13%) | 76,113,113 | 1.88 | 14 (18%) |
| 21 | CLA | b | 1220 | - | 65,73,73 | 1.32 | 9 (13%) | 76,113,113 | 1.94 | 13 (17%) |
| 21 | CLA | 1 | 1120 | - | 65,73,73 | 1.31 | 9 (13%) | 76,113,113 | 1.95 | 13 (17%) |
| 21 | CLA | a | 1103 | - | 65,73,73 | 1.28 | 8 (12%) | 76,113,113 | 1.93 | 14 (18%) |
| 25 | LHG | 1 | 5001 | - | 48,48,48 | 0.39 | 0 | 51,54,54 | 1.06 | 3 (5%) |
| 21 | CLA | f | 1302 | - | 65,73,73 | 1.31 | 9 (13%) | 76,113,113 | 1.89 | 14 (18%) |
| 21 | CLA | 1 | 1801 | 25 | 56,64,73 | 1.42 | 9 (16%) | 65,102,113 | 2.16 | 15 (23%) |
| 21 | CLA | B | 1207 | - | 65,73,73 | 1.35 | 9 (13%) | 76,113,113 | 2.00 | 15 (19%) |
| 21 | CLA | B | 1230 | - | 65,73,73 | 1.30 | 9 (13%) | 76,113,113 | 1.91 | 11 (14%) |
| 24 | BCR | 0 | 4019 | - | 41,41,41 | 0.67 | 0 | 56,56,56 | 3.10 | 11 (19%) |
| 21 | CLA | B | 1219 | - | 65,73,73 | 1.31 | 8 (12%) | 76,113,113 | 1.92 | 12 (15%) |
| 21 | CLA | 2 | 1226 | - | 55,63,73 | 1.45 | 9 (16%) | 64,101,113 | 2.04 | 15 (23%) |
| 26 | LMG | 2 | 5002 | - | 55,55,55 | 1.14 | 6 (10%) | 63,63,63 | 1.08 | 2 (3%) |
| 24 | BCR | 2 | 4011 | - | 41,41,41 | 0.68 | 0 | 56,56,56 | 2.94 | 9 (16%) |
| 24 | BCR | B | 4014 | - | 41,41,41 | 0.71 | 0 | 56,56,56 | 3.12 | 12 (21%) |

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|------|------|-----------|---------------|---------|
| 21 | CLA | a | 1105 | - | 1/1/13/20 | 8/29/107/115 | - |
| 24 | BCR | 1 | 4002 | - | - | 14/29/63/63 | 0/2/2/2 |
| 21 | CLA | A | 1138 | - | 1/1/15/20 | 14/37/115/115 | - |
| 21 | CLA | b | 1207 | - | - | 13/37/115/115 | - |
| 24 | BCR | 2 | 4005 | - | - | 11/29/63/63 | 0/2/2/2 |
| 25 | LHG | 1 | 5005 | - | - | 36/53/53/53 | - |
| 35 | LMT | 0 | 6001 | - | - | 14/21/61/61 | 0/2/2/2 |
| 24 | BCR | I | 4018 | - | - | 10/29/63/63 | 0/2/2/2 |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|------|------|-----------|---------------|---------|
| 24 | BCR | 1 | 4007 | - | - | 16/29/63/63 | 0/2/2/2 |
| 34 | ZEX | j | 4015 | - | - | 7/29/67/67 | 0/2/2/2 |
| 21 | CLA | B | 1226 | - | 1/1/15/20 | 22/37/115/115 | - |
| 21 | CLA | a | 1122 | - | 1/1/15/20 | 24/37/115/115 | - |
| 24 | BCR | 1 | 4001 | - | - | 10/29/63/63 | 0/2/2/2 |
| 21 | CLA | K | 1402 | - | - | 17/37/115/115 | - |
| 24 | BCR | A | 4001 | - | - | 5/29/63/63 | 0/2/2/2 |
| 21 | CLA | b | 1234 | - | 1/1/12/20 | 4/23/101/115 | - |
| 21 | CLA | A | 1105 | - | 1/1/15/20 | 15/37/115/115 | - |
| 21 | CLA | a | 1120 | - | - | 10/25/103/115 | - |
| 21 | CLA | 2 | 1211 | - | 1/1/12/20 | 10/19/97/115 | - |
| 24 | BCR | a | 4008 | - | - | 13/29/63/63 | 0/2/2/2 |
| 21 | CLA | B | 1236 | - | 1/1/12/20 | 5/19/97/115 | - |
| 21 | CLA | 1 | 1110 | - | 1/1/12/20 | 8/19/97/115 | - |
| 21 | CLA | 1 | 1116 | - | 1/1/15/20 | 17/37/115/115 | - |
| 21 | CLA | 1 | 1115 | - | 1/1/15/20 | 9/37/115/115 | - |
| 21 | CLA | B | 1209 | - | - | 19/37/115/115 | - |
| 23 | SF4 | C | 3002 | 3 | - | - | 0/6/5/5 |
| 21 | CLA | A | 1107 | 1 | 1/1/15/20 | 19/37/115/115 | - |
| 21 | CLA | b | 1228 | - | 1/1/15/20 | 15/37/115/115 | - |
| 28 | 45D | h | 4020 | 21 | - | 15/29/69/69 | 0/2/2/2 |
| 21 | CLA | 7 | 1302 | 8 | 1/1/10/20 | 3/8/86/115 | - |
| 25 | LHG | l | 5003 | - | - | 33/53/53/53 | - |
| 21 | CLA | b | 1202 | - | 1/1/15/20 | 18/37/115/115 | - |
| 21 | CLA | 1 | 1129 | - | 1/1/12/20 | 7/19/97/115 | - |
| 24 | BCR | a | 4012 | - | - | 7/29/63/63 | 0/2/2/2 |
| 21 | CLA | 1 | 1125 | - | 1/1/15/20 | 15/37/115/115 | - |
| 21 | CLA | A | 1129 | - | - | 11/29/107/115 | - |
| 25 | LHG | l | 5002 | - | - | 32/53/53/53 | - |
| 21 | CLA | b | 1208 | - | 1/1/14/20 | 15/31/109/115 | - |
| 21 | CLA | 1 | 1012 | 38 | 1/1/15/20 | 21/37/115/115 | - |
| 24 | BCR | a | 4019 | - | - | 9/29/63/63 | 0/2/2/2 |
| 25 | LHG | a | 5001 | - | - | 27/53/53/53 | - |
| 21 | CLA | A | 1136 | - | 1/1/15/20 | 19/37/115/115 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|------|------|-----------|---------------|---------|
| 21 | CLA | B | 1231 | 38 | - | 20/37/115/115 | - |
| 24 | BCR | B | 4017 | - | - | 9/29/63/63 | 0/2/2/2 |
| 21 | CLA | b | 1223 | - | 1/1/15/20 | 13/37/115/115 | - |
| 21 | CLA | b | 1240 | - | 1/1/15/20 | 20/37/115/115 | - |
| 21 | CLA | A | 1127 | - | 1/1/15/20 | 17/37/115/115 | - |
| 21 | CLA | 8 | 1401 | - | 1/1/11/20 | 6/13/91/115 | - |
| 21 | CLA | b | 1217 | - | 1/1/12/20 | 10/21/99/115 | - |
| 25 | LHG | A | 5006 | - | - | 29/53/53/53 | - |
| 21 | CLA | a | 1111 | - | 1/1/15/20 | 19/37/115/115 | - |
| 21 | CLA | f | 1301 | 38 | 1/1/12/20 | 5/19/97/115 | - |
| 21 | CLA | L | 1501 | 10 | 1/1/15/20 | 17/37/115/115 | - |
| 21 | CLA | A | 1128 | - | 1/1/15/20 | 16/37/115/115 | - |
| 21 | CLA | 1 | 1112 | - | 1/1/12/20 | 8/19/97/115 | - |
| 21 | CLA | a | 1140 | - | 1/1/15/20 | 12/37/115/115 | - |
| 21 | CLA | 1 | 1103 | - | 1/1/15/20 | 26/37/115/115 | - |
| 21 | CLA | 2 | 1223 | - | - | 8/25/103/115 | - |
| 21 | CLA | a | 1112 | - | 1/1/15/20 | 17/37/115/115 | - |
| 21 | CLA | a | 1128 | - | 1/1/15/20 | 23/37/115/115 | - |
| 21 | CLA | a | 1114 | - | 1/1/12/20 | 8/22/100/115 | - |
| 26 | LMG | b | 5005 | - | - | 17/50/70/70 | 0/1/1/1 |
| 21 | CLA | 2 | 1234 | - | 1/1/12/20 | 9/19/97/115 | - |
| 21 | CLA | b | 1022 | - | 1/1/15/20 | 10/37/115/115 | - |
| 26 | LMG | 1 | 5004 | - | - | 20/50/70/70 | 0/1/1/1 |
| 21 | CLA | B | 1201 | - | 1/1/15/20 | 15/37/115/115 | - |
| 26 | LMG | 0 | 5001 | - | - | 24/50/70/70 | 0/1/1/1 |
| 37 | DGD | L | 5004 | - | - | 23/55/95/95 | 0/2/2/2 |
| 21 | CLA | A | 1131 | - | 1/1/15/20 | 17/37/115/115 | - |
| 21 | CLA | 6 | 1302 | 6 | 1/1/10/20 | 5/11/89/115 | - |
| 21 | CLA | A | 1104 | - | 1/1/15/20 | 16/37/115/115 | - |
| 24 | BCR | b | 4004 | - | - | 13/29/63/63 | 0/2/2/2 |
| 21 | CLA | a | 1102 | - | 1/1/15/20 | 11/37/115/115 | - |
| 21 | CLA | B | 1021 | - | 1/1/15/20 | 10/37/115/115 | - |
| 22 | PQN | B | 2002 | - | - | 10/23/43/43 | 0/2/2/2 |
| 21 | CLA | A | 1121 | - | 1/1/15/20 | 19/37/115/115 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|------|------|-----------|---------------|---------|
| 21 | CLA | A | 1123 | 38 | 1/1/15/20 | 12/37/115/115 | - |
| 21 | CLA | 1 | 1132 | - | 1/1/15/20 | 13/37/115/115 | - |
| 21 | CLA | 1 | 1111 | - | 1/1/15/20 | 15/37/115/115 | - |
| 21 | CLA | 1 | 1013 | - | 1/1/15/20 | 17/37/115/115 | - |
| 21 | CLA | a | 1801 | 25 | 1/1/13/20 | 13/25/103/115 | - |
| 21 | CLA | A | 1103 | - | 1/1/15/20 | 19/37/115/115 | - |
| 21 | CLA | 7 | 1303 | - | 1/1/10/20 | 3/8/86/115 | - |
| 21 | CLA | B | 1225 | - | 1/1/15/20 | 13/37/115/115 | - |
| 21 | CLA | b | 1212 | - | - | 16/37/115/115 | - |
| 21 | CLA | 2 | 1021 | - | 1/1/15/20 | 14/37/115/115 | - |
| 21 | CLA | 2 | 1225 | - | 1/1/15/20 | 15/37/115/115 | - |
| 21 | CLA | 0 | 1502 | 28 | 1/1/15/20 | 12/37/115/115 | - |
| 21 | CLA | 1 | 1122 | - | 1/1/14/20 | 14/31/109/115 | - |
| 24 | BCR | 0 | 4022 | - | - | 9/29/63/63 | 0/2/2/2 |
| 21 | CLA | A | 1112 | - | 1/1/15/20 | 19/37/115/115 | - |
| 21 | CLA | A | 1101 | - | - | 8/37/115/115 | - |
| 21 | CLA | b | 1203 | - | 1/1/15/20 | 18/37/115/115 | - |
| 21 | CLA | 2 | 1231 | 38 | 1/1/11/20 | 4/15/93/115 | - |
| 21 | CLA | b | 1224 | - | 1/1/15/20 | 12/37/115/115 | - |
| 21 | CLA | 2 | 1022 | 38 | 1/1/15/20 | 7/37/115/115 | - |
| 21 | CLA | 2 | 1238 | 38 | 1/1/15/20 | 11/37/115/115 | - |
| 26 | LMG | a | 5004 | - | - | 15/50/70/70 | 0/1/1/1 |
| 21 | CLA | 0 | 1503 | 38 | 1/1/15/20 | 20/37/115/115 | - |
| 21 | CLA | 2 | 1216 | - | 1/1/12/20 | 6/19/97/115 | - |
| 31 | SQD | b | 5006 | - | - | 27/49/69/69 | 0/1/1/1 |
| 23 | SF4 | c | 3002 | - | - | - | 0/6/5/5 |
| 21 | CLA | a | 1109 | - | 1/1/15/20 | 18/37/115/115 | - |
| 21 | CLA | b | 1218 | - | 1/1/15/20 | 18/37/115/115 | - |
| 22 | PQN | A | 2001 | - | - | 10/23/43/43 | 0/2/2/2 |
| 21 | CLA | k | 1401 | - | 1/1/12/20 | 5/19/97/115 | - |
| 21 | CLA | A | 1013 | - | 1/1/15/20 | 15/37/115/115 | - |
| 24 | BCR | b | 4010 | - | - | 9/29/63/63 | 0/2/2/2 |
| 21 | CLA | a | 1110 | - | 1/1/13/20 | 17/30/108/115 | - |
| 31 | SQD | f | 5001 | - | - | 19/49/69/69 | 0/1/1/1 |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|------|------|-----------|---------------|---------|
| 21 | CLA | a | 1135 | - | 1/1/15/20 | 23/37/115/115 | - |
| 21 | CLA | 1 | 1108 | - | 1/1/11/20 | 10/15/93/115 | - |
| 24 | BCR | 6 | 4016 | - | - | 13/29/63/63 | 0/2/2/2 |
| 25 | LHG | 0 | 5002 | - | - | 24/53/53/53 | - |
| 21 | CLA | B | 1204 | - | 1/1/15/20 | 17/37/115/115 | - |
| 21 | CLA | L | 1503 | 38 | - | 20/37/115/115 | - |
| 21 | CLA | B | 1022 | 38 | 1/1/15/20 | 6/37/115/115 | - |
| 21 | CLA | J | 1303 | - | 1/1/15/20 | 22/37/115/115 | - |
| 24 | BCR | 2 | 4004 | - | - | 13/29/63/63 | 0/2/2/2 |
| 21 | CLA | B | 1232 | - | 1/1/12/20 | 4/19/97/115 | - |
| 24 | BCR | h | 4018 | - | - | 13/29/63/63 | 0/2/2/2 |
| 21 | CLA | a | 1136 | - | 1/1/15/20 | 17/37/115/115 | - |
| 21 | CLA | B | 1023 | - | 1/1/15/20 | 5/37/115/115 | - |
| 21 | CLA | 2 | 1218 | - | 1/1/15/20 | 18/37/115/115 | - |
| 21 | CLA | 2 | 1215 | - | 1/1/14/20 | 16/31/109/115 | - |
| 21 | CLA | a | 1121 | - | 1/1/15/20 | 24/37/115/115 | - |
| 21 | CLA | a | 1101 | - | - | 11/37/115/115 | - |
| 21 | CLA | a | 1106 | - | 1/1/15/20 | 17/37/115/115 | - |
| 21 | CLA | 2 | 1206 | 2 | 1/1/15/20 | 14/37/115/115 | - |
| 24 | BCR | 1 | 4012 | - | - | 14/29/63/63 | 0/2/2/2 |
| 21 | CLA | b | 1232 | - | 1/1/15/20 | 18/37/115/115 | - |
| 24 | BCR | A | 4008 | - | - | 5/29/63/63 | 0/2/2/2 |
| 23 | SF4 | c | 3003 | 13 | - | - | 0/6/5/5 |
| 21 | CLA | 2 | 1222 | - | 1/1/12/20 | 6/19/97/115 | - |
| 21 | CLA | A | 1120 | - | 1/1/15/20 | 17/37/115/115 | - |
| 21 | CLA | b | 1221 | 38 | 1/1/15/20 | 13/37/115/115 | - |
| 21 | CLA | A | 1119 | 38 | 1/1/15/20 | 18/37/115/115 | - |
| 21 | CLA | a | 1011 | - | 1/1/15/20 | 20/37/115/115 | - |
| 21 | CLA | b | 1231 | 38 | 1/1/15/20 | 22/37/115/115 | - |
| 21 | CLA | 1 | 1117 | - | 1/1/15/20 | 16/37/115/115 | - |
| 24 | BCR | b | 4018 | - | - | 10/29/63/63 | 0/2/2/2 |
| 26 | LMG | B | 5002 | - | - | 10/50/70/70 | 0/1/1/1 |
| 34 | ZEX | F | 4016 | - | 1/1/12/27 | 7/29/67/67 | 0/2/2/2 |
| 21 | CLA | 2 | 1023 | - | 1/1/15/20 | 16/37/115/115 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|------|------|-----------|---------------|---------|
| 21 | CLA | b | 1230 | - | 1/1/15/20 | 21/37/115/115 | - |
| 21 | CLA | 1 | 1139 | - | 1/1/15/20 | 14/37/115/115 | - |
| 21 | CLA | 1 | 1130 | - | 1/1/13/20 | 9/25/103/115 | - |
| 21 | CLA | 1 | 1124 | - | 1/1/13/20 | 11/27/105/115 | - |
| 24 | BCR | B | 4005 | - | - | 13/29/63/63 | 0/2/2/2 |
| 35 | LMT | l | 6001 | - | - | 6/21/61/61 | 0/2/2/2 |
| 21 | CLA | A | 1124 | 38 | 1/1/15/20 | 10/37/115/115 | - |
| 21 | CLA | 2 | 1227 | - | 1/1/11/20 | 4/13/91/115 | - |
| 21 | CLA | b | 1205 | - | 1/1/15/20 | 11/37/115/115 | - |
| 21 | CLA | 2 | 1221 | - | 1/1/15/20 | 15/37/115/115 | - |
| 21 | CLA | b | 1222 | 38 | 1/1/15/20 | 15/37/115/115 | - |
| 24 | BCR | b | 4005 | - | - | 12/29/63/63 | 0/2/2/2 |
| 21 | CLA | B | 1213 | - | 1/1/15/20 | 14/37/115/115 | - |
| 21 | CLA | B | 1217 | - | 1/1/15/20 | 16/37/115/115 | - |
| 34 | ZEX | J | 4015 | - | - | 3/29/67/67 | 0/2/2/2 |
| 23 | SF4 | 3 | 3002 | - | - | - | 0/6/5/5 |
| 24 | BCR | b | 4014 | - | - | 10/29/63/63 | 0/2/2/2 |
| 21 | CLA | B | 1205 | - | 1/1/15/20 | 16/37/115/115 | - |
| 25 | LHG | 1 | 5003 | 21 | - | 32/53/53/53 | - |
| 24 | BCR | j | 4013 | - | - | 9/29/63/63 | 0/2/2/2 |
| 30 | ECH | B | 4006 | - | - | 7/29/66/66 | 0/2/2/2 |
| 21 | CLA | l | 1503 | - | 1/1/15/20 | 23/37/115/115 | - |
| 26 | LMG | a | 5002 | - | - | 18/45/65/70 | 0/1/1/1 |
| 21 | CLA | b | 1219 | - | 1/1/14/20 | 18/31/109/115 | - |
| 21 | CLA | a | 1138 | - | 1/1/15/20 | 13/37/115/115 | - |
| 21 | CLA | 1 | 1134 | 16 | 1/1/15/20 | 22/37/115/115 | - |
| 21 | CLA | B | 1228 | - | 1/1/15/20 | 17/37/115/115 | - |
| 21 | CLA | 1 | 1128 | - | 1/1/15/20 | 18/37/115/115 | - |
| 21 | CLA | 2 | 1229 | - | 1/1/15/20 | 21/37/115/115 | - |
| 21 | CLA | a | 1107 | 1 | 1/1/12/20 | 7/19/97/115 | - |
| 24 | BCR | f | 4016 | - | - | 11/29/63/63 | 0/2/2/2 |
| 24 | BCR | L | 4022 | - | - | 10/29/63/63 | 0/2/2/2 |
| 21 | CLA | A | 1130 | - | 1/1/14/20 | 6/31/109/115 | - |
| 21 | CLA | B | 1211 | - | 1/1/15/20 | 19/37/115/115 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|------|------|-----------|---------------|---------|
| 21 | CLA | a | 1113 | - | 1/1/12/20 | 9/19/97/115 | - |
| 25 | LHG | A | 5005 | - | - | 36/53/53/53 | - |
| 21 | CLA | A | 1140 | - | 1/1/15/20 | 17/37/115/115 | - |
| 24 | BCR | 9 | 4021 | - | - | 13/29/63/63 | 0/2/2/2 |
| 21 | CLA | A | 1111 | - | 1/1/15/20 | 16/37/115/115 | - |
| 21 | CLA | F | 1301 | 38 | 1/1/15/20 | 15/37/115/115 | - |
| 21 | CLA | 1 | 1123 | - | - | 15/37/115/115 | - |
| 21 | CLA | a | 1118 | - | 1/1/15/20 | 19/37/115/115 | - |
| 24 | BCR | i | 4018 | - | - | 12/29/63/63 | 0/2/2/2 |
| 24 | BCR | A | 4007 | - | - | 9/29/63/63 | 0/2/2/2 |
| 21 | CLA | l | 1502 | - | 1/1/15/20 | 15/37/115/115 | - |
| 21 | CLA | A | 1115 | - | 1/1/15/20 | 7/37/115/115 | - |
| 26 | LMG | B | 5005 | - | - | 11/50/70/70 | 0/1/1/1 |
| 24 | BCR | L | 4019 | - | - | 6/29/63/63 | 0/2/2/2 |
| 21 | CLA | B | 1239 | - | 1/1/15/20 | 17/37/115/115 | - |
| 21 | CLA | b | 1211 | - | 1/1/15/20 | 17/37/115/115 | - |
| 21 | CLA | b | 1209 | - | - | 18/37/115/115 | - |
| 21 | CLA | b | 1239 | - | 1/1/15/20 | 12/37/115/115 | - |
| 21 | CLA | 2 | 1208 | - | 1/1/14/20 | 13/31/109/115 | - |
| 21 | CLA | 2 | 1203 | - | 1/1/15/20 | 20/37/115/115 | - |
| 21 | CLA | A | 1133 | - | 1/1/15/20 | 11/37/115/115 | - |
| 21 | CLA | 2 | 1219 | - | - | 9/23/101/115 | - |
| 21 | CLA | 1 | 1121 | - | 1/1/13/20 | 12/25/103/115 | - |
| 21 | CLA | A | 1801 | 25 | 1/1/15/20 | 20/37/115/115 | - |
| 21 | CLA | 8 | 1402 | - | 1/1/11/20 | 11/15/93/115 | - |
| 28 | 45D | B | 4011 | - | - | 11/29/69/69 | 0/2/2/2 |
| 21 | CLA | A | 1110 | - | 1/1/15/20 | 19/37/115/115 | - |
| 21 | CLA | 2 | 1239 | - | 1/1/15/20 | 17/37/115/115 | - |
| 21 | CLA | 2 | 1202 | - | 1/1/15/20 | 21/37/115/115 | - |
| 21 | CLA | a | 1126 | - | 1/1/15/20 | 21/37/115/115 | - |
| 21 | CLA | B | 1206 | 2 | 1/1/15/20 | 17/37/115/115 | - |
| 21 | CLA | 1 | 1135 | - | - | 12/22/100/115 | - |
| 21 | CLA | 2 | 1230 | - | 1/1/11/20 | 11/16/94/115 | - |
| 25 | LHG | B | 5004 | - | - | 28/53/53/53 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|------|------|-----------|---------------|---------|
| 21 | CLA | A | 1137 | - | 1/1/15/20 | 16/37/115/115 | - |
| 21 | CLA | B | 1216 | 38 | 1/1/15/20 | 23/37/115/115 | - |
| 25 | LHG | l | 5004 | - | - | 28/53/53/53 | - |
| 21 | CLA | A | 1134 | 1 | 1/1/15/20 | 19/37/115/115 | - |
| 21 | CLA | B | 1221 | - | 1/1/15/20 | 12/37/115/115 | - |
| 21 | CLA | 2 | 1228 | - | 1/1/11/20 | 9/13/91/115 | - |
| 21 | CLA | 2 | 1235 | - | 1/1/12/20 | 9/23/101/115 | - |
| 21 | CLA | a | 1117 | - | 1/1/15/20 | 20/37/115/115 | - |
| 21 | CLA | b | 1206 | 12 | 1/1/15/20 | 18/37/115/115 | - |
| 25 | LHG | b | 5004 | - | - | 25/53/53/53 | - |
| 31 | SQD | L | 5001 | - | - | 21/46/66/69 | 0/1/1/1 |
| 21 | CLA | 1 | 1107 | - | 1/1/12/20 | 9/21/99/115 | - |
| 21 | CLA | 1 | 1105 | - | 1/1/12/20 | 4/19/97/115 | - |
| 21 | CLA | b | 1201 | - | 1/1/15/20 | 13/37/115/115 | - |
| 26 | LMG | 2 | 5005 | - | - | 17/50/70/70 | 0/1/1/1 |
| 25 | LHG | a | 5007 | - | - | 34/53/53/53 | - |
| 21 | CLA | A | 1125 | - | - | 21/37/115/115 | - |
| 21 | CLA | a | 1133 | - | - | 18/37/115/115 | - |
| 21 | CLA | b | 1214 | - | 1/1/15/20 | 17/37/115/115 | - |
| 26 | LMG | A | 5002 | - | - | 21/45/65/70 | 0/1/1/1 |
| 21 | CLA | A | 1126 | - | 1/1/15/20 | 18/37/115/115 | - |
| 21 | CLA | 1 | 1106 | 16 | 1/1/15/20 | 17/37/115/115 | - |
| 21 | CLA | a | 1123 | 1 | 1/1/15/20 | 16/37/115/115 | - |
| 25 | LHG | l | 5001 | - | - | 31/53/53/53 | - |
| 24 | BCR | b | 4017 | - | - | 11/29/63/63 | 0/2/2/2 |
| 24 | BCR | A | 4012 | - | - | 11/29/63/63 | 0/2/2/2 |
| 24 | BCR | 2 | 4018 | - | - | 14/29/63/63 | 0/2/2/2 |
| 21 | CLA | A | 1135 | - | - | 17/37/115/115 | - |
| 23 | SF4 | A | 3001 | 2,1 | - | - | 0/6/5/5 |
| 34 | ZEX | 7 | 4015 | - | - | 7/29/67/67 | 0/2/2/2 |
| 21 | CLA | B | 1234 | - | - | 11/37/115/115 | - |
| 21 | CLA | A | 1118 | - | 1/1/15/20 | 17/37/115/115 | - |
| 21 | CLA | a | 1129 | - | 1/1/12/20 | 10/22/100/115 | - |
| 21 | CLA | j | 1302 | - | 1/1/15/20 | 19/37/115/115 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|------|------|-----------|---------------|---------|
| 21 | CLA | 1 | 1101 | - | - | 15/37/115/115 | - |
| 36 | EQ3 | I | 4020 | - | - | 8/29/68/68 | 0/2/2/2 |
| 21 | CLA | b | 1225 | - | 1/1/15/20 | 13/37/115/115 | - |
| 22 | PQN | b | 2002 | - | - | 8/23/43/43 | 0/2/2/2 |
| 21 | CLA | 2 | 1237 | 38 | 1/1/15/20 | 14/37/115/115 | - |
| 24 | BCR | 1 | 4003 | - | - | 13/29/63/63 | 0/2/2/2 |
| 24 | BCR | 2 | 4010 | - | - | 12/29/63/63 | 0/2/2/2 |
| 21 | CLA | a | 1134 | 1 | 1/1/11/20 | 10/18/96/115 | - |
| 23 | SF4 | a | 3001 | 12,1 | - | - | 0/6/5/5 |
| 21 | CLA | 2 | 1212 | - | 1/1/10/20 | 5/8/86/115 | - |
| 21 | CLA | a | 1104 | - | 1/1/15/20 | 25/37/115/115 | - |
| 21 | CLA | b | 1213 | - | 1/1/15/20 | 17/37/115/115 | - |
| 21 | CLA | 2 | 1240 | - | - | 4/8/86/115 | - |
| 21 | CLA | 2 | 1220 | - | 1/1/11/20 | 7/13/91/115 | - |
| 24 | BCR | B | 4018 | - | - | 13/29/63/63 | 0/2/2/2 |
| 21 | CLA | a | 1131 | - | 1/1/15/20 | 14/37/115/115 | - |
| 25 | LHG | 2 | 5004 | - | - | 25/53/53/53 | - |
| 24 | BCR | l | 4022 | - | - | 14/29/63/63 | 0/2/2/2 |
| 21 | CLA | 2 | 1213 | - | 1/1/12/20 | 8/19/97/115 | - |
| 21 | CLA | A | 1106 | 1 | 1/1/15/20 | 19/37/115/115 | - |
| 21 | CLA | 1 | 1109 | 16 | 1/1/15/20 | 17/37/115/115 | - |
| 21 | CLA | B | 1210 | - | - | 17/37/115/115 | - |
| 21 | CLA | a | 1132 | - | 1/1/15/20 | 13/37/115/115 | - |
| 24 | BCR | k | 4001 | - | - | 10/29/63/63 | 0/2/2/2 |
| 21 | CLA | B | 1208 | - | 1/1/15/20 | 17/37/115/115 | - |
| 30 | ECH | m | 4021 | - | - | 7/29/66/66 | 0/2/2/2 |
| 21 | CLA | k | 1402 | - | 1/1/11/20 | 13/18/96/115 | - |
| 21 | CLA | 1 | 1113 | - | 1/1/10/20 | 7/11/90/115 | - |
| 24 | BCR | 2 | 4014 | - | - | 7/29/63/63 | 0/2/2/2 |
| 21 | CLA | a | 1130 | - | 1/1/15/20 | 15/37/115/115 | - |
| 25 | LHG | F | 5002 | - | - | 40/53/53/53 | - |
| 21 | CLA | b | 1237 | 38 | 1/1/15/20 | 14/37/115/115 | - |
| 21 | CLA | 1 | 1131 | - | 1/1/15/20 | 12/37/115/115 | - |
| 24 | BCR | A | 4003 | - | - | 15/29/63/63 | 0/2/2/2 |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|------|------|-----------|---------------|---------|
| 21 | CLA | b | 1204 | - | 1/1/15/20 | 12/37/115/115 | - |
| 22 | PQN | a | 2001 | - | - | 7/23/43/43 | 0/2/2/2 |
| 21 | CLA | b | 1229 | - | 1/1/15/20 | 14/37/115/115 | - |
| 24 | BCR | a | 4007 | - | - | 9/29/63/63 | 0/2/2/2 |
| 21 | CLA | 2 | 1201 | - | 1/1/15/20 | 12/37/115/115 | - |
| 25 | LHG | A | 5007 | - | - | 29/53/53/53 | - |
| 21 | CLA | 1 | 1119 | 38 | 1/1/15/20 | 15/37/115/115 | - |
| 21 | CLA | 2 | 1205 | - | 1/1/15/20 | 19/37/115/115 | - |
| 26 | LMG | K | 5009 | - | - | 17/50/70/70 | 0/1/1/1 |
| 21 | CLA | a | 1119 | - | 1/1/15/20 | 17/37/115/115 | - |
| 21 | CLA | A | 1113 | - | 1/1/15/20 | 22/37/115/115 | - |
| 21 | CLA | 2 | 1214 | - | 1/1/13/20 | 16/30/108/115 | - |
| 23 | SF4 | C | 3003 | 3 | - | - | 0/6/5/5 |
| 21 | CLA | 1 | 1140 | - | 1/1/15/20 | 14/37/115/115 | - |
| 21 | CLA | B | 1223 | - | 1/1/15/20 | 10/37/115/115 | - |
| 31 | SQD | B | 5008 | - | - | 23/49/69/69 | 0/1/1/1 |
| 21 | CLA | b | 1021 | - | 1/1/15/20 | 22/37/115/115 | - |
| 24 | BCR | K | 4001 | - | - | 12/29/63/63 | 0/2/2/2 |
| 21 | CLA | j | 1303 | - | 1/1/13/20 | 11/25/103/115 | - |
| 21 | CLA | L | 1502 | - | 1/1/15/20 | 13/37/115/115 | - |
| 21 | CLA | A | 1108 | - | 1/1/12/20 | 11/23/101/115 | - |
| 21 | CLA | B | 1222 | 38 | 1/1/13/20 | 8/25/103/115 | - |
| 21 | CLA | b | 1227 | - | 1/1/15/20 | 13/37/115/115 | - |
| 24 | BCR | J | 4013 | - | - | 14/29/63/63 | 0/2/2/2 |
| 21 | CLA | a | 1108 | - | 1/1/13/20 | 13/28/106/115 | - |
| 21 | CLA | 0 | 1501 | 20 | 1/1/15/20 | 16/37/115/115 | - |
| 24 | BCR | B | 4004 | - | - | 15/29/63/63 | 0/2/2/2 |
| 21 | CLA | 2 | 1236 | - | 1/1/12/20 | 9/19/97/115 | - |
| 21 | CLA | 1 | 1133 | - | 1/1/15/20 | 18/37/115/115 | - |
| 21 | CLA | 1 | 1136 | - | 1/1/15/20 | 18/37/115/115 | - |
| 35 | LMT | F | 6001 | - | - | 8/21/61/61 | 0/2/2/2 |
| 21 | CLA | 2 | 1209 | - | - | 7/13/91/115 | - |
| 21 | CLA | 1 | 1127 | - | 1/1/15/20 | 21/37/115/115 | - |
| 26 | LMG | b | 5002 | - | - | 12/50/70/70 | 0/1/1/1 |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|------|------|-----------|---------------|---------|
| 21 | CLA | b | 1238 | 38 | 1/1/15/20 | 7/37/115/115 | - |
| 21 | CLA | A | 1122 | - | 1/1/14/20 | 13/31/109/115 | - |
| 21 | CLA | a | 1012 | 38 | 1/1/15/20 | 19/37/115/115 | - |
| 21 | CLA | a | 1124 | - | 1/1/13/20 | 9/25/103/115 | - |
| 21 | CLA | 2 | 1217 | - | 1/1/12/20 | 12/22/100/115 | - |
| 25 | LHG | A | 5001 | - | - | 35/53/53/53 | - |
| 24 | BCR | 2 | 4017 | - | - | 12/29/63/63 | 0/2/2/2 |
| 26 | LMG | A | 5004 | - | - | 18/43/63/70 | 0/1/1/1 |
| 24 | BCR | 1 | 4008 | - | - | 9/29/63/63 | 0/2/2/2 |
| 30 | ECH | 2 | 4006 | - | - | 11/29/66/66 | 0/2/2/2 |
| 21 | CLA | 2 | 1210 | - | - | 22/37/115/115 | - |
| 21 | CLA | B | 1212 | - | 1/1/13/20 | 12/25/103/115 | - |
| 30 | ECH | i | 4020 | - | - | 10/29/66/66 | 0/2/2/2 |
| 31 | SQD | L | 5002 | - | - | 18/49/69/69 | 0/1/1/1 |
| 26 | LMG | b | 5007 | - | - | 18/50/70/70 | 0/1/1/1 |
| 30 | ECH | M | 4021 | - | - | 8/29/66/66 | 0/2/2/2 |
| 21 | CLA | A | 1117 | - | 1/1/15/20 | 16/37/115/115 | - |
| 21 | CLA | B | 1238 | 38 | 1/1/15/20 | 8/37/115/115 | - |
| 25 | LHG | a | 5005 | - | - | 30/53/53/53 | - |
| 21 | CLA | 1 | 1104 | - | 1/1/15/20 | 15/37/115/115 | - |
| 21 | CLA | A | 1139 | 38 | 1/1/15/20 | 15/37/115/115 | - |
| 21 | CLA | B | 1224 | - | 1/1/15/20 | 21/37/115/115 | - |
| 21 | CLA | B | 1215 | - | 1/1/15/20 | 17/37/115/115 | - |
| 21 | CLA | b | 1235 | - | 1/1/15/20 | 17/37/115/115 | - |
| 21 | CLA | 2 | 1204 | - | 1/1/15/20 | 15/37/115/115 | - |
| 23 | SF4 | 3 | 3003 | - | - | - | 0/6/5/5 |
| 24 | BCR | A | 4002 | - | - | 7/29/63/63 | 0/2/2/2 |
| 21 | CLA | a | 1139 | 38 | 1/1/15/20 | 13/37/115/115 | - |
| 21 | CLA | B | 1237 | 38 | 1/1/15/20 | 12/37/115/115 | - |
| 24 | BCR | B | 4010 | - | - | 10/29/63/63 | 0/2/2/2 |
| 21 | CLA | B | 1214 | - | 1/1/15/20 | 17/37/115/115 | - |
| 26 | LMG | 1 | 5002 | - | - | 20/45/65/70 | 0/1/1/1 |
| 21 | CLA | 1 | 1138 | - | 1/1/14/20 | 13/31/109/115 | - |
| 21 | CLA | 1 | 1126 | - | 1/1/15/20 | 20/37/115/115 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|------|------|-----------|---------------|---------|
| 24 | BCR | a | 4001 | - | - | 16/29/63/63 | 0/2/2/2 |
| 21 | CLA | b | 1023 | - | 1/1/15/20 | 11/37/115/115 | - |
| 21 | CLA | 6 | 1301 | 38 | 1/1/11/20 | 6/16/94/115 | - |
| 35 | LMT | 1 | 6001 | - | - | 8/21/61/61 | 0/2/2/2 |
| 23 | SF4 | 1 | 3001 | 2,16 | - | - | 0/6/5/5 |
| 21 | CLA | A | 1109 | 21 | 1/1/15/20 | 15/37/115/115 | - |
| 21 | CLA | B | 1235 | - | 1/1/15/20 | 14/37/115/115 | - |
| 35 | LMT | L | 6001 | - | - | 9/21/61/61 | 0/2/2/2 |
| 21 | CLA | 1 | 1118 | - | 1/1/15/20 | 16/37/115/115 | - |
| 21 | CLA | 1 | 1011 | - | 1/1/15/20 | 13/37/115/115 | - |
| 21 | CLA | a | 1115 | - | - | 8/37/115/115 | - |
| 21 | CLA | 2 | 1207 | - | - | 14/27/105/115 | - |
| 24 | BCR | a | 4003 | - | - | 12/29/63/63 | 0/2/2/2 |
| 21 | CLA | B | 1218 | - | 1/1/15/20 | 21/37/115/115 | - |
| 25 | LHG | 0 | 5004 | - | - | 32/53/53/53 | - |
| 24 | BCR | a | 4002 | - | - | 15/29/63/63 | 0/2/2/2 |
| 22 | PQN | 2 | 2002 | - | - | 8/23/43/43 | 0/2/2/2 |
| 22 | PQN | 1 | 2001 | - | - | 3/23/43/43 | 0/2/2/2 |
| 21 | CLA | A | 1012 | 38 | 1/1/15/20 | 22/37/115/115 | - |
| 26 | LMG | A | 5008 | - | - | 24/50/70/70 | 0/1/1/1 |
| 21 | CLA | A | 1116 | - | 1/1/15/20 | 21/37/115/115 | - |
| 24 | BCR | 1 | 4019 | - | - | 14/29/63/63 | 0/2/2/2 |
| 21 | CLA | J | 1302 | 8 | 1/1/15/20 | 13/37/115/115 | - |
| 25 | LHG | a | 5003 | 21 | - | 39/53/53/53 | - |
| 24 | BCR | l | 4019 | - | - | 7/29/63/63 | 0/2/2/2 |
| 31 | SQD | F | 5001 | - | - | 23/49/69/69 | 0/1/1/1 |
| 21 | CLA | F | 1302 | 6 | 1/1/15/20 | 19/37/115/115 | - |
| 21 | CLA | 1 | 1102 | - | 1/1/13/20 | 11/25/103/115 | - |
| 25 | LHG | 6 | 5001 | - | - | 6/12/12/53 | - |
| 21 | CLA | b | 1216 | 38 | 1/1/15/20 | 21/37/115/115 | - |
| 21 | CLA | a | 1116 | - | 1/1/14/20 | 10/31/109/115 | - |
| 21 | CLA | A | 1011 | - | 1/1/15/20 | 11/37/115/115 | - |
| 25 | LHG | A | 5003 | 21 | - | 27/53/53/53 | - |
| 21 | CLA | a | 1137 | - | 1/1/12/20 | 7/19/97/115 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|------|------|-----------|---------------|---------|
| 21 | CLA | a | 1127 | - | 1/1/15/20 | 23/37/115/115 | - |
| 25 | LHG | B | 5006 | - | - | 34/53/53/53 | - |
| 21 | CLA | B | 1227 | - | - | 13/25/103/115 | - |
| 21 | CLA | b | 1236 | - | 1/1/15/20 | 13/37/115/115 | - |
| 30 | ECH | b | 4011 | - | - | 11/29/66/66 | 0/2/2/2 |
| 21 | CLA | l | 1501 | 10 | 1/1/15/20 | 21/37/115/115 | - |
| 25 | LHG | L | 5005 | - | - | 24/53/53/53 | - |
| 21 | CLA | K | 1401 | 38 | 1/1/15/20 | 15/37/115/115 | - |
| 21 | CLA | B | 1229 | - | 1/1/15/20 | 16/37/115/115 | - |
| 25 | LHG | 1 | 5007 | - | - | 30/53/53/53 | - |
| 21 | CLA | B | 1203 | - | 1/1/15/20 | 15/37/115/115 | - |
| 24 | BCR | A | 4019 | - | - | 11/29/63/63 | 0/2/2/2 |
| 21 | CLA | B | 1202 | - | 1/1/15/20 | 19/37/115/115 | - |
| 21 | CLA | a | 1125 | - | 1/1/15/20 | 11/37/115/115 | - |
| 24 | BCR | 8 | 4001 | - | - | 10/29/63/63 | 0/2/2/2 |
| 21 | CLA | 2 | 1224 | - | 1/1/13/20 | 17/25/103/115 | - |
| 21 | CLA | A | 1102 | 21 | 1/1/15/20 | 18/37/115/115 | - |
| 21 | CLA | b | 1215 | - | 1/1/15/20 | 17/37/115/115 | - |
| 25 | LHG | M | 5001 | - | - | 31/53/53/53 | - |
| 24 | BCR | 7 | 4013 | - | - | 12/29/63/63 | 0/2/2/2 |
| 30 | ECH | b | 4006 | - | - | 7/29/66/66 | 0/2/2/2 |
| 21 | CLA | 1 | 1137 | - | 1/1/12/20 | 9/21/99/115 | - |
| 21 | CLA | b | 1226 | - | 1/1/15/20 | 15/37/115/115 | - |
| 21 | CLA | B | 1240 | - | 1/1/15/20 | 17/37/115/115 | - |
| 21 | CLA | B | 1220 | - | 1/1/13/20 | 15/28/106/115 | - |
| 21 | CLA | 2 | 1232 | - | 1/1/11/20 | 7/13/91/115 | - |
| 21 | CLA | A | 1132 | - | 1/1/15/20 | 13/37/115/115 | - |
| 21 | CLA | a | 1013 | - | 1/1/15/20 | 12/37/115/115 | - |
| 21 | CLA | 1 | 1114 | - | 1/1/11/20 | 5/13/91/115 | - |
| 31 | SQD | 0 | 5005 | - | - | 27/49/69/69 | 0/1/1/1 |
| 21 | CLA | A | 1114 | 38 | 1/1/15/20 | 21/37/115/115 | - |
| 21 | CLA | b | 1210 | - | - | 20/37/115/115 | - |
| 21 | CLA | b | 1220 | - | 1/1/15/20 | 12/37/115/115 | - |
| 21 | CLA | 1 | 1120 | - | 1/1/15/20 | 19/37/115/115 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|------|------|-----------|---------------|---------|
| 21 | CLA | a | 1103 | - | 1/1/15/20 | 22/37/115/115 | - |
| 25 | LHG | 1 | 5001 | - | - | 27/53/53/53 | - |
| 21 | CLA | f | 1302 | - | 1/1/15/20 | 23/37/115/115 | - |
| 21 | CLA | 1 | 1801 | 25 | 1/1/13/20 | 11/27/105/115 | - |
| 21 | CLA | B | 1207 | - | - | 11/37/115/115 | - |
| 21 | CLA | B | 1230 | - | 1/1/15/20 | 20/37/115/115 | - |
| 24 | BCR | 0 | 4019 | - | - | 10/29/63/63 | 0/2/2/2 |
| 21 | CLA | B | 1219 | - | - | 17/37/115/115 | - |
| 21 | CLA | 2 | 1226 | - | 1/1/13/20 | 15/25/103/115 | - |
| 26 | LMG | 2 | 5002 | - | - | 11/50/70/70 | 0/1/1/1 |
| 24 | BCR | 2 | 4011 | - | - | 15/29/63/63 | 0/2/2/2 |
| 24 | BCR | B | 4014 | - | - | 8/29/63/63 | 0/2/2/2 |

All (2603) bond length outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 34 | F | 4016 | ZEX | C38-C24 | 37.43 | 2.55 | 1.53 |
| 34 | J | 4015 | ZEX | C38-C24 | 37.01 | 2.54 | 1.53 |
| 34 | j | 4015 | ZEX | C38-C24 | 36.94 | 2.54 | 1.53 |
| 34 | 7 | 4015 | ZEX | C38-C24 | 36.93 | 2.54 | 1.53 |
| 28 | h | 4020 | 45D | C08-C16 | 13.47 | 1.54 | 1.35 |
| 36 | I | 4020 | EQ3 | C25-C26 | 13.39 | 1.54 | 1.35 |
| 28 | B | 4011 | 45D | C08-C16 | 12.95 | 1.53 | 1.35 |
| 28 | h | 4020 | 45D | C07-C15 | 12.67 | 1.53 | 1.35 |
| 28 | B | 4011 | 45D | C07-C15 | 11.93 | 1.52 | 1.35 |
| 36 | I | 4020 | EQ3 | C4-C3 | 11.27 | 1.71 | 1.52 |
| 36 | I | 4020 | EQ3 | C5-C6 | 10.88 | 1.53 | 1.34 |
| 21 | B | 1238 | CLA | MG-NA | 6.49 | 2.21 | 2.06 |
| 21 | B | 1210 | CLA | MG-NA | 6.47 | 2.21 | 2.06 |
| 21 | a | 1101 | CLA | MG-NA | 6.47 | 2.21 | 2.06 |
| 21 | B | 1213 | CLA | MG-NA | 6.46 | 2.21 | 2.06 |
| 21 | 1 | 1127 | CLA | MG-NA | 6.46 | 2.21 | 2.06 |
| 21 | b | 1238 | CLA | MG-NA | 6.45 | 2.21 | 2.06 |
| 21 | a | 1120 | CLA | MG-NA | 6.45 | 2.21 | 2.06 |
| 21 | B | 1240 | CLA | MG-NA | 6.44 | 2.21 | 2.06 |
| 21 | 1 | 1121 | CLA | MG-NA | 6.44 | 2.21 | 2.06 |
| 21 | A | 1123 | CLA | MG-NA | 6.43 | 2.21 | 2.06 |
| 21 | 1 | 1124 | CLA | MG-NA | 6.43 | 2.21 | 2.06 |
| 21 | 2 | 1218 | CLA | MG-NA | 6.43 | 2.21 | 2.06 |
| 21 | 1 | 1123 | CLA | MG-NA | 6.43 | 2.21 | 2.06 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|-------|-------------|----------|
| 21 | A | 1113 | CLA | MG-NA | 6.43 | 2.21 | 2.06 |
| 36 | I | 4020 | EQ3 | C2-C3 | -6.42 | 1.43 | 1.52 |
| 21 | a | 1108 | CLA | MG-NA | 6.42 | 2.21 | 2.06 |
| 21 | A | 1127 | CLA | MG-NA | 6.42 | 2.21 | 2.06 |
| 21 | a | 1123 | CLA | MG-NA | 6.42 | 2.21 | 2.06 |
| 21 | 2 | 1209 | CLA | MG-NA | 6.42 | 2.21 | 2.06 |
| 21 | A | 1105 | CLA | MG-NA | 6.41 | 2.21 | 2.06 |
| 21 | 2 | 1219 | CLA | MG-NA | 6.41 | 2.21 | 2.06 |
| 21 | a | 1121 | CLA | MG-NA | 6.41 | 2.21 | 2.06 |
| 21 | B | 1209 | CLA | MG-NA | 6.41 | 2.21 | 2.06 |
| 21 | A | 1136 | CLA | MG-NA | 6.41 | 2.21 | 2.06 |
| 21 | j | 1303 | CLA | MG-NA | 6.41 | 2.21 | 2.06 |
| 21 | B | 1239 | CLA | MG-NA | 6.41 | 2.21 | 2.06 |
| 21 | A | 1122 | CLA | MG-NA | 6.40 | 2.21 | 2.06 |
| 21 | b | 1226 | CLA | MG-NA | 6.40 | 2.21 | 2.06 |
| 21 | 1 | 1128 | CLA | MG-NA | 6.40 | 2.21 | 2.06 |
| 21 | 1 | 1101 | CLA | MG-NA | 6.39 | 2.21 | 2.06 |
| 21 | B | 1207 | CLA | MG-NA | 6.39 | 2.21 | 2.06 |
| 21 | 1 | 1114 | CLA | MG-NA | 6.39 | 2.21 | 2.06 |
| 21 | 1 | 1125 | CLA | MG-NA | 6.39 | 2.21 | 2.06 |
| 21 | b | 1240 | CLA | MG-NA | 6.39 | 2.21 | 2.06 |
| 21 | A | 1012 | CLA | MG-NA | 6.39 | 2.21 | 2.06 |
| 21 | a | 1136 | CLA | MG-NA | 6.38 | 2.21 | 2.06 |
| 21 | 1 | 1105 | CLA | MG-NA | 6.38 | 2.21 | 2.06 |
| 21 | 8 | 1401 | CLA | MG-NA | 6.38 | 2.21 | 2.06 |
| 21 | 2 | 1234 | CLA | MG-NA | 6.38 | 2.21 | 2.06 |
| 21 | A | 1114 | CLA | MG-NA | 6.38 | 2.21 | 2.06 |
| 21 | b | 1218 | CLA | MG-NA | 6.38 | 2.21 | 2.06 |
| 21 | B | 1022 | CLA | MG-NA | 6.37 | 2.21 | 2.06 |
| 21 | 1 | 1111 | CLA | MG-NA | 6.37 | 2.21 | 2.06 |
| 21 | 1 | 1120 | CLA | MG-NA | 6.37 | 2.21 | 2.06 |
| 21 | A | 1118 | CLA | MG-NA | 6.37 | 2.21 | 2.06 |
| 21 | a | 1114 | CLA | MG-NA | 6.37 | 2.21 | 2.06 |
| 21 | a | 1137 | CLA | MG-NA | 6.36 | 2.21 | 2.06 |
| 21 | a | 1133 | CLA | MG-NA | 6.36 | 2.21 | 2.06 |
| 21 | b | 1217 | CLA | MG-NA | 6.36 | 2.21 | 2.06 |
| 21 | f | 1301 | CLA | MG-NA | 6.35 | 2.21 | 2.06 |
| 21 | b | 1212 | CLA | MG-NA | 6.35 | 2.21 | 2.06 |
| 21 | 2 | 1214 | CLA | MG-NA | 6.35 | 2.21 | 2.06 |
| 21 | F | 1302 | CLA | MG-NA | 6.35 | 2.21 | 2.06 |
| 21 | 2 | 1211 | CLA | MG-NA | 6.35 | 2.21 | 2.06 |
| 21 | k | 1401 | CLA | MG-NA | 6.35 | 2.21 | 2.06 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 21 | 2 | 1240 | CLA | MG-NA | 6.35 | 2.21 | 2.06 |
| 21 | 1 | 1135 | CLA | MG-NA | 6.34 | 2.21 | 2.06 |
| 21 | B | 1234 | CLA | MG-NA | 6.34 | 2.21 | 2.06 |
| 21 | A | 1117 | CLA | MG-NA | 6.34 | 2.21 | 2.06 |
| 21 | b | 1239 | CLA | MG-NA | 6.34 | 2.21 | 2.06 |
| 21 | a | 1117 | CLA | MG-NA | 6.34 | 2.21 | 2.06 |
| 21 | 1 | 1113 | CLA | MG-NA | 6.34 | 2.21 | 2.06 |
| 21 | B | 1218 | CLA | MG-NA | 6.34 | 2.21 | 2.06 |
| 21 | 2 | 1238 | CLA | MG-NA | 6.33 | 2.21 | 2.06 |
| 21 | B | 1216 | CLA | MG-NA | 6.33 | 2.21 | 2.06 |
| 21 | a | 1105 | CLA | MG-NA | 6.33 | 2.21 | 2.06 |
| 21 | 6 | 1301 | CLA | MG-NA | 6.33 | 2.21 | 2.06 |
| 21 | F | 1301 | CLA | MG-NA | 6.33 | 2.21 | 2.06 |
| 21 | B | 1204 | CLA | MG-NA | 6.32 | 2.21 | 2.06 |
| 21 | a | 1113 | CLA | MG-NA | 6.32 | 2.21 | 2.06 |
| 21 | 8 | 1402 | CLA | MG-NA | 6.32 | 2.21 | 2.06 |
| 21 | A | 1131 | CLA | MG-NA | 6.32 | 2.21 | 2.06 |
| 21 | a | 1134 | CLA | MG-NA | 6.32 | 2.21 | 2.06 |
| 21 | 2 | 1220 | CLA | MG-NA | 6.32 | 2.21 | 2.06 |
| 21 | 1 | 1139 | CLA | MG-NA | 6.32 | 2.21 | 2.06 |
| 21 | 2 | 1239 | CLA | MG-NA | 6.31 | 2.21 | 2.06 |
| 21 | b | 1228 | CLA | MG-NA | 6.31 | 2.21 | 2.06 |
| 21 | B | 1220 | CLA | MG-NA | 6.31 | 2.21 | 2.06 |
| 21 | A | 1134 | CLA | MG-NA | 6.31 | 2.21 | 2.06 |
| 21 | f | 1302 | CLA | MG-NA | 6.31 | 2.21 | 2.06 |
| 21 | B | 1232 | CLA | MG-NA | 6.31 | 2.21 | 2.06 |
| 21 | a | 1140 | CLA | MG-NA | 6.31 | 2.21 | 2.06 |
| 21 | 1 | 1129 | CLA | MG-NA | 6.31 | 2.21 | 2.06 |
| 21 | A | 1101 | CLA | MG-NA | 6.31 | 2.21 | 2.06 |
| 21 | 6 | 1302 | CLA | MG-NA | 6.31 | 2.21 | 2.06 |
| 21 | 7 | 1303 | CLA | MG-NA | 6.31 | 2.21 | 2.06 |
| 21 | b | 1221 | CLA | MG-NA | 6.30 | 2.21 | 2.06 |
| 21 | a | 1135 | CLA | MG-NA | 6.30 | 2.21 | 2.06 |
| 21 | a | 1139 | CLA | MG-NA | 6.30 | 2.21 | 2.06 |
| 21 | 2 | 1236 | CLA | MG-NA | 6.30 | 2.21 | 2.06 |
| 21 | A | 1130 | CLA | MG-NA | 6.30 | 2.21 | 2.06 |
| 21 | B | 1223 | CLA | MG-NA | 6.30 | 2.21 | 2.06 |
| 21 | 2 | 1230 | CLA | MG-NA | 6.29 | 2.21 | 2.06 |
| 21 | L | 1501 | CLA | MG-NA | 6.29 | 2.21 | 2.06 |
| 21 | a | 1801 | CLA | MG-NA | 6.29 | 2.21 | 2.06 |
| 21 | a | 1130 | CLA | MG-NA | 6.29 | 2.21 | 2.06 |
| 21 | 2 | 1217 | CLA | MG-NA | 6.29 | 2.21 | 2.06 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 21 | A | 1125 | CLA | MG-NA | 6.29 | 2.21 | 2.06 |
| 21 | 1 | 1112 | CLA | MG-NA | 6.29 | 2.21 | 2.06 |
| 21 | b | 1209 | CLA | MG-NA | 6.29 | 2.21 | 2.06 |
| 21 | 1 | 1108 | CLA | MG-NA | 6.29 | 2.21 | 2.06 |
| 21 | B | 1214 | CLA | MG-NA | 6.29 | 2.21 | 2.06 |
| 21 | 2 | 1226 | CLA | MG-NA | 6.29 | 2.21 | 2.06 |
| 21 | a | 1110 | CLA | MG-NA | 6.29 | 2.21 | 2.06 |
| 21 | b | 1236 | CLA | MG-NA | 6.29 | 2.21 | 2.06 |
| 21 | 1 | 1137 | CLA | MG-NA | 6.29 | 2.21 | 2.06 |
| 21 | 7 | 1302 | CLA | MG-NA | 6.29 | 2.21 | 2.06 |
| 21 | K | 1402 | CLA | MG-NA | 6.29 | 2.21 | 2.06 |
| 21 | b | 1214 | CLA | MG-NA | 6.29 | 2.21 | 2.06 |
| 21 | a | 1127 | CLA | MG-NA | 6.29 | 2.21 | 2.06 |
| 21 | A | 1120 | CLA | MG-NA | 6.28 | 2.21 | 2.06 |
| 21 | a | 1118 | CLA | MG-NA | 6.28 | 2.21 | 2.06 |
| 21 | 1 | 1130 | CLA | MG-NA | 6.28 | 2.21 | 2.06 |
| 21 | 1 | 1136 | CLA | MG-NA | 6.28 | 2.21 | 2.06 |
| 21 | a | 1115 | CLA | MG-NA | 6.28 | 2.21 | 2.06 |
| 21 | 1 | 1138 | CLA | MG-NA | 6.28 | 2.21 | 2.06 |
| 21 | B | 1219 | CLA | MG-NA | 6.28 | 2.21 | 2.06 |
| 21 | 2 | 1225 | CLA | MG-NA | 6.28 | 2.21 | 2.06 |
| 21 | B | 1225 | CLA | MG-NA | 6.28 | 2.21 | 2.06 |
| 21 | 2 | 1208 | CLA | MG-NA | 6.28 | 2.21 | 2.06 |
| 21 | 2 | 1212 | CLA | MG-NA | 6.28 | 2.21 | 2.06 |
| 21 | 1 | 1102 | CLA | MG-NA | 6.27 | 2.21 | 2.06 |
| 21 | 1 | 1117 | CLA | MG-NA | 6.27 | 2.21 | 2.06 |
| 21 | A | 1112 | CLA | MG-NA | 6.27 | 2.21 | 2.06 |
| 21 | A | 1135 | CLA | MG-NA | 6.27 | 2.21 | 2.06 |
| 21 | a | 1107 | CLA | MG-NA | 6.27 | 2.21 | 2.06 |
| 21 | A | 1128 | CLA | MG-NA | 6.27 | 2.21 | 2.06 |
| 21 | 1 | 1801 | CLA | MG-NA | 6.27 | 2.21 | 2.06 |
| 21 | b | 1220 | CLA | MG-NA | 6.27 | 2.21 | 2.06 |
| 21 | b | 1219 | CLA | MG-NA | 6.27 | 2.21 | 2.06 |
| 21 | b | 1234 | CLA | MG-NA | 6.27 | 2.21 | 2.06 |
| 21 | L | 1503 | CLA | MG-NA | 6.26 | 2.21 | 2.06 |
| 21 | 2 | 1210 | CLA | MG-NA | 6.26 | 2.21 | 2.06 |
| 21 | B | 1212 | CLA | MG-NA | 6.26 | 2.21 | 2.06 |
| 21 | a | 1138 | CLA | MG-NA | 6.26 | 2.21 | 2.06 |
| 21 | b | 1232 | CLA | MG-NA | 6.26 | 2.21 | 2.06 |
| 21 | 2 | 1227 | CLA | MG-NA | 6.26 | 2.21 | 2.06 |
| 21 | 1 | 1109 | CLA | MG-NA | 6.26 | 2.21 | 2.06 |
| 21 | a | 1125 | CLA | MG-NA | 6.26 | 2.21 | 2.06 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 21 | 1 | 1122 | CLA | MG-NA | 6.26 | 2.21 | 2.06 |
| 21 | a | 1129 | CLA | MG-NA | 6.26 | 2.21 | 2.06 |
| 21 | 2 | 1203 | CLA | MG-NA | 6.26 | 2.21 | 2.06 |
| 21 | 2 | 1221 | CLA | MG-NA | 6.25 | 2.21 | 2.06 |
| 21 | 2 | 1222 | CLA | MG-NA | 6.25 | 2.21 | 2.06 |
| 21 | 0 | 1503 | CLA | MG-NA | 6.25 | 2.21 | 2.06 |
| 21 | j | 1302 | CLA | MG-NA | 6.25 | 2.21 | 2.06 |
| 21 | B | 1237 | CLA | MG-NA | 6.25 | 2.21 | 2.06 |
| 21 | B | 1208 | CLA | MG-NA | 6.25 | 2.21 | 2.06 |
| 21 | J | 1303 | CLA | MG-NA | 6.24 | 2.21 | 2.06 |
| 21 | B | 1203 | CLA | MG-NA | 6.24 | 2.21 | 2.06 |
| 21 | 2 | 1223 | CLA | MG-NA | 6.24 | 2.21 | 2.06 |
| 21 | A | 1116 | CLA | MG-NA | 6.24 | 2.21 | 2.06 |
| 21 | B | 1217 | CLA | MG-NA | 6.24 | 2.21 | 2.06 |
| 21 | 1 | 1115 | CLA | MG-NA | 6.24 | 2.21 | 2.06 |
| 21 | b | 1223 | CLA | MG-NA | 6.24 | 2.21 | 2.06 |
| 21 | a | 1012 | CLA | MG-NA | 6.24 | 2.21 | 2.06 |
| 21 | a | 1122 | CLA | MG-NA | 6.23 | 2.21 | 2.06 |
| 21 | a | 1116 | CLA | MG-NA | 6.23 | 2.21 | 2.06 |
| 21 | 1 | 1134 | CLA | MG-NA | 6.23 | 2.21 | 2.06 |
| 21 | 2 | 1232 | CLA | MG-NA | 6.23 | 2.21 | 2.06 |
| 21 | 2 | 1215 | CLA | MG-NA | 6.23 | 2.21 | 2.06 |
| 21 | A | 1140 | CLA | MG-NA | 6.23 | 2.21 | 2.06 |
| 21 | 1 | 1118 | CLA | MG-NA | 6.23 | 2.21 | 2.06 |
| 21 | 1 | 1140 | CLA | MG-NA | 6.22 | 2.21 | 2.06 |
| 21 | B | 1211 | CLA | MG-NA | 6.22 | 2.21 | 2.06 |
| 21 | A | 1137 | CLA | MG-NA | 6.22 | 2.21 | 2.06 |
| 21 | b | 1210 | CLA | MG-NA | 6.22 | 2.21 | 2.06 |
| 21 | A | 1115 | CLA | MG-NA | 6.22 | 2.21 | 2.06 |
| 21 | a | 1112 | CLA | MG-NA | 6.22 | 2.21 | 2.06 |
| 21 | 1 | 1126 | CLA | MG-NA | 6.22 | 2.21 | 2.06 |
| 21 | 1 | 1110 | CLA | MG-NA | 6.21 | 2.21 | 2.06 |
| 21 | b | 1206 | CLA | MG-NA | 6.21 | 2.21 | 2.06 |
| 21 | B | 1236 | CLA | MG-NA | 6.21 | 2.21 | 2.06 |
| 21 | 1 | 1116 | CLA | MG-NA | 6.21 | 2.21 | 2.06 |
| 21 | A | 1104 | CLA | MG-NA | 6.21 | 2.21 | 2.06 |
| 21 | B | 1227 | CLA | MG-NA | 6.21 | 2.21 | 2.06 |
| 21 | a | 1131 | CLA | MG-NA | 6.21 | 2.21 | 2.06 |
| 21 | b | 1225 | CLA | MG-NA | 6.21 | 2.21 | 2.06 |
| 21 | 1 | 1107 | CLA | MG-NA | 6.21 | 2.21 | 2.06 |
| 21 | b | 1213 | CLA | MG-NA | 6.21 | 2.21 | 2.06 |
| 21 | a | 1132 | CLA | MG-NA | 6.21 | 2.21 | 2.06 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 21 | l | 1502 | CLA | MG-NA | 6.20 | 2.21 | 2.06 |
| 21 | A | 1133 | CLA | MG-NA | 6.20 | 2.21 | 2.06 |
| 21 | b | 1229 | CLA | MG-NA | 6.20 | 2.21 | 2.06 |
| 21 | k | 1402 | CLA | MG-NA | 6.20 | 2.21 | 2.06 |
| 21 | b | 1208 | CLA | MG-NA | 6.20 | 2.21 | 2.06 |
| 21 | 1 | 1104 | CLA | MG-NA | 6.20 | 2.21 | 2.06 |
| 21 | 2 | 1207 | CLA | MG-NA | 6.20 | 2.21 | 2.06 |
| 21 | b | 1207 | CLA | MG-NA | 6.20 | 2.21 | 2.06 |
| 21 | J | 1302 | CLA | MG-NA | 6.20 | 2.21 | 2.06 |
| 21 | b | 1022 | CLA | MG-NA | 6.20 | 2.21 | 2.06 |
| 21 | 2 | 1202 | CLA | MG-NA | 6.20 | 2.21 | 2.06 |
| 21 | a | 1111 | CLA | MG-NA | 6.19 | 2.21 | 2.06 |
| 21 | a | 1119 | CLA | MG-NA | 6.19 | 2.21 | 2.06 |
| 21 | b | 1203 | CLA | MG-NA | 6.19 | 2.21 | 2.06 |
| 21 | A | 1102 | CLA | MG-NA | 6.19 | 2.21 | 2.06 |
| 21 | a | 1109 | CLA | MG-NA | 6.19 | 2.21 | 2.06 |
| 21 | 2 | 1229 | CLA | MG-NA | 6.19 | 2.21 | 2.06 |
| 21 | A | 1109 | CLA | MG-NA | 6.19 | 2.21 | 2.06 |
| 21 | K | 1401 | CLA | MG-NA | 6.19 | 2.21 | 2.06 |
| 21 | 1 | 1106 | CLA | MG-NA | 6.18 | 2.21 | 2.06 |
| 21 | A | 1132 | CLA | MG-NA | 6.18 | 2.21 | 2.06 |
| 21 | 1 | 1133 | CLA | MG-NA | 6.18 | 2.21 | 2.06 |
| 21 | A | 1129 | CLA | MG-NA | 6.18 | 2.20 | 2.06 |
| 21 | A | 1111 | CLA | MG-NA | 6.18 | 2.20 | 2.06 |
| 21 | 1 | 1011 | CLA | MG-NA | 6.18 | 2.20 | 2.06 |
| 21 | B | 1201 | CLA | MG-NA | 6.17 | 2.20 | 2.06 |
| 21 | l | 1501 | CLA | MG-NA | 6.17 | 2.20 | 2.06 |
| 21 | 0 | 1501 | CLA | MG-NA | 6.17 | 2.20 | 2.06 |
| 21 | B | 1228 | CLA | MG-NA | 6.17 | 2.20 | 2.06 |
| 21 | 2 | 1204 | CLA | MG-NA | 6.16 | 2.20 | 2.06 |
| 21 | a | 1128 | CLA | MG-NA | 6.16 | 2.20 | 2.06 |
| 21 | 2 | 1022 | CLA | MG-NA | 6.16 | 2.20 | 2.06 |
| 21 | 2 | 1206 | CLA | MG-NA | 6.16 | 2.20 | 2.06 |
| 21 | 2 | 1235 | CLA | MG-NA | 6.16 | 2.20 | 2.06 |
| 21 | A | 1801 | CLA | MG-NA | 6.16 | 2.20 | 2.06 |
| 21 | b | 1021 | CLA | MG-NA | 6.16 | 2.20 | 2.06 |
| 21 | 2 | 1231 | CLA | MG-NA | 6.16 | 2.20 | 2.06 |
| 21 | a | 1104 | CLA | MG-NA | 6.16 | 2.20 | 2.06 |
| 21 | A | 1107 | CLA | MG-NA | 6.16 | 2.20 | 2.06 |
| 21 | b | 1204 | CLA | MG-NA | 6.16 | 2.20 | 2.06 |
| 21 | B | 1202 | CLA | MG-NA | 6.15 | 2.20 | 2.06 |
| 21 | 1 | 1132 | CLA | MG-NA | 6.15 | 2.20 | 2.06 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|------|-------------|----------|
| 21 | a | 1102 | CLA | MG-NA | 6.15 | 2.20 | 2.06 |
| 21 | 2 | 1237 | CLA | MG-NA | 6.15 | 2.20 | 2.06 |
| 21 | 0 | 1502 | CLA | MG-NA | 6.15 | 2.20 | 2.06 |
| 21 | A | 1121 | CLA | MG-NA | 6.15 | 2.20 | 2.06 |
| 21 | 1 | 1131 | CLA | MG-NA | 6.15 | 2.20 | 2.06 |
| 21 | b | 1215 | CLA | MG-NA | 6.14 | 2.20 | 2.06 |
| 21 | 2 | 1213 | CLA | MG-NA | 6.14 | 2.20 | 2.06 |
| 21 | B | 1226 | CLA | MG-NA | 6.13 | 2.20 | 2.06 |
| 21 | b | 1201 | CLA | MG-NA | 6.13 | 2.20 | 2.06 |
| 21 | 1 | 1013 | CLA | MG-NA | 6.13 | 2.20 | 2.06 |
| 21 | a | 1124 | CLA | MG-NA | 6.13 | 2.20 | 2.06 |
| 21 | A | 1110 | CLA | MG-NA | 6.12 | 2.20 | 2.06 |
| 21 | B | 1206 | CLA | MG-NA | 6.12 | 2.20 | 2.06 |
| 21 | b | 1211 | CLA | MG-NA | 6.12 | 2.20 | 2.06 |
| 21 | a | 1011 | CLA | MG-NA | 6.12 | 2.20 | 2.06 |
| 21 | b | 1227 | CLA | MG-NA | 6.11 | 2.20 | 2.06 |
| 21 | A | 1108 | CLA | MG-NA | 6.11 | 2.20 | 2.06 |
| 21 | B | 1224 | CLA | MG-NA | 6.11 | 2.20 | 2.06 |
| 21 | B | 1205 | CLA | MG-NA | 6.10 | 2.20 | 2.06 |
| 21 | 1 | 1012 | CLA | MG-NA | 6.10 | 2.20 | 2.06 |
| 21 | 2 | 1205 | CLA | MG-NA | 6.10 | 2.20 | 2.06 |
| 21 | A | 1139 | CLA | MG-NA | 6.10 | 2.20 | 2.06 |
| 21 | A | 1138 | CLA | MG-NA | 6.10 | 2.20 | 2.06 |
| 21 | B | 1215 | CLA | MG-NA | 6.10 | 2.20 | 2.06 |
| 21 | B | 1221 | CLA | MG-NA | 6.10 | 2.20 | 2.06 |
| 21 | B | 1230 | CLA | MG-NA | 6.10 | 2.20 | 2.06 |
| 21 | 2 | 1201 | CLA | MG-NA | 6.10 | 2.20 | 2.06 |
| 21 | 2 | 1021 | CLA | MG-NA | 6.10 | 2.20 | 2.06 |
| 21 | B | 1229 | CLA | MG-NA | 6.09 | 2.20 | 2.06 |
| 21 | a | 1126 | CLA | MG-NA | 6.09 | 2.20 | 2.06 |
| 21 | a | 1106 | CLA | MG-NA | 6.08 | 2.20 | 2.06 |
| 21 | 2 | 1023 | CLA | MG-NA | 6.08 | 2.20 | 2.06 |
| 21 | B | 1231 | CLA | MG-NA | 6.08 | 2.20 | 2.06 |
| 21 | 2 | 1224 | CLA | MG-NA | 6.08 | 2.20 | 2.06 |
| 21 | A | 1126 | CLA | MG-NA | 6.07 | 2.20 | 2.06 |
| 21 | B | 1222 | CLA | MG-NA | 6.06 | 2.20 | 2.06 |
| 21 | 2 | 1228 | CLA | MG-NA | 6.06 | 2.20 | 2.06 |
| 21 | b | 1237 | CLA | MG-NA | 6.05 | 2.20 | 2.06 |
| 21 | b | 1230 | CLA | MG-NA | 6.05 | 2.20 | 2.06 |
| 21 | b | 1224 | CLA | MG-NA | 6.05 | 2.20 | 2.06 |
| 21 | b | 1235 | CLA | MG-NA | 6.05 | 2.20 | 2.06 |
| 21 | B | 1021 | CLA | MG-NA | 6.04 | 2.20 | 2.06 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | b | 1216 | CLA | MG-NA | 6.04 | 2.20 | 2.06 |
| 21 | 2 | 1216 | CLA | MG-NA | 6.04 | 2.20 | 2.06 |
| 21 | b | 1231 | CLA | MG-NA | 6.04 | 2.20 | 2.06 |
| 21 | 1 | 1119 | CLA | MG-NA | 6.04 | 2.20 | 2.06 |
| 21 | A | 1124 | CLA | MG-NA | 6.04 | 2.20 | 2.06 |
| 21 | A | 1119 | CLA | MG-NA | 6.02 | 2.20 | 2.06 |
| 21 | b | 1205 | CLA | MG-NA | 6.02 | 2.20 | 2.06 |
| 21 | A | 1011 | CLA | MG-NA | 6.01 | 2.20 | 2.06 |
| 21 | L | 1502 | CLA | MG-NA | 6.01 | 2.20 | 2.06 |
| 21 | b | 1023 | CLA | MG-NA | 6.00 | 2.20 | 2.06 |
| 21 | B | 1023 | CLA | MG-NA | 5.98 | 2.20 | 2.06 |
| 21 | b | 1222 | CLA | MG-NA | 5.98 | 2.20 | 2.06 |
| 21 | A | 1013 | CLA | MG-NA | 5.98 | 2.20 | 2.06 |
| 21 | a | 1103 | CLA | MG-NA | 5.96 | 2.20 | 2.06 |
| 21 | l | 1503 | CLA | MG-NA | 5.93 | 2.20 | 2.06 |
| 21 | A | 1106 | CLA | MG-NA | 5.93 | 2.20 | 2.06 |
| 21 | B | 1235 | CLA | MG-NA | 5.93 | 2.20 | 2.06 |
| 21 | 1 | 1103 | CLA | MG-NA | 5.92 | 2.20 | 2.06 |
| 21 | b | 1202 | CLA | MG-NA | 5.91 | 2.20 | 2.06 |
| 21 | A | 1103 | CLA | MG-NA | 5.83 | 2.20 | 2.06 |
| 21 | a | 1013 | CLA | MG-NA | 5.81 | 2.20 | 2.06 |
| 28 | B | 4011 | 45D | C23-C25 | 4.78 | 1.56 | 1.45 |
| 36 | I | 4020 | EQ3 | C1-C6 | -4.71 | 1.47 | 1.53 |
| 28 | h | 4020 | 45D | C23-C25 | 4.67 | 1.56 | 1.45 |
| 36 | I | 4020 | EQ3 | C4-C5 | -4.62 | 1.43 | 1.51 |
| 36 | I | 4020 | EQ3 | C11-C10 | 4.53 | 1.57 | 1.43 |
| 36 | I | 4020 | EQ3 | C15-C14 | 4.51 | 1.57 | 1.43 |
| 28 | B | 4011 | 45D | C24-C26 | 4.50 | 1.55 | 1.45 |
| 28 | B | 4011 | 45D | C33-C35 | 4.38 | 1.55 | 1.45 |
| 28 | h | 4020 | 45D | C33-C35 | 4.25 | 1.55 | 1.45 |
| 28 | B | 4011 | 45D | C34-C36 | 4.24 | 1.55 | 1.45 |
| 28 | h | 4020 | 45D | C24-C26 | 4.09 | 1.54 | 1.45 |
| 28 | h | 4020 | 45D | C34-C36 | 4.06 | 1.54 | 1.45 |
| 21 | a | 1011 | CLA | MG-ND | -3.98 | 1.97 | 2.05 |
| 21 | A | 1011 | CLA | MG-ND | -3.98 | 1.97 | 2.05 |
| 36 | I | 4020 | EQ3 | C23-C22 | 3.95 | 1.54 | 1.45 |
| 21 | 1 | 1011 | CLA | MG-ND | -3.89 | 1.98 | 2.05 |
| 21 | b | 1021 | CLA | MG-ND | -3.89 | 1.98 | 2.05 |
| 36 | I | 4020 | EQ3 | C7-C6 | 3.89 | 1.58 | 1.45 |
| 21 | 2 | 1023 | CLA | MG-ND | -3.88 | 1.98 | 2.05 |
| 21 | 1 | 1013 | CLA | MG-ND | -3.87 | 1.98 | 2.05 |
| 21 | b | 1206 | CLA | MG-ND | -3.83 | 1.98 | 2.05 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | B | 1023 | CLA | MG-ND | -3.82 | 1.98 | 2.05 |
| 21 | 2 | 1021 | CLA | MG-ND | -3.79 | 1.98 | 2.05 |
| 21 | A | 1104 | CLA | MG-ND | -3.77 | 1.98 | 2.05 |
| 36 | I | 4020 | EQ3 | C12-C13 | 3.77 | 1.54 | 1.45 |
| 21 | 2 | 1226 | CLA | MG-ND | -3.73 | 1.98 | 2.05 |
| 21 | a | 1103 | CLA | MG-ND | -3.73 | 1.98 | 2.05 |
| 21 | B | 1226 | CLA | MG-ND | -3.73 | 1.98 | 2.05 |
| 28 | B | 4011 | 45D | C42-C38 | 3.73 | 1.55 | 1.43 |
| 21 | B | 1021 | CLA | MG-ND | -3.73 | 1.98 | 2.05 |
| 21 | 2 | 1221 | CLA | MG-ND | -3.73 | 1.98 | 2.05 |
| 36 | I | 4020 | EQ3 | C19-C18 | 3.73 | 1.53 | 1.45 |
| 21 | b | 1223 | CLA | MG-ND | -3.72 | 1.98 | 2.05 |
| 21 | b | 1221 | CLA | MG-ND | -3.72 | 1.98 | 2.05 |
| 21 | B | 1207 | CLA | MG-ND | -3.71 | 1.98 | 2.05 |
| 21 | J | 1302 | CLA | MG-ND | -3.71 | 1.98 | 2.05 |
| 21 | B | 1215 | CLA | MG-ND | -3.69 | 1.98 | 2.05 |
| 21 | L | 1501 | CLA | MG-ND | -3.69 | 1.98 | 2.05 |
| 21 | B | 1213 | CLA | MG-ND | -3.69 | 1.98 | 2.05 |
| 21 | a | 1140 | CLA | MG-ND | -3.69 | 1.98 | 2.05 |
| 28 | B | 4011 | 45D | C41-C37 | 3.69 | 1.54 | 1.43 |
| 21 | 6 | 1302 | CLA | MG-ND | -3.68 | 1.98 | 2.05 |
| 21 | B | 1221 | CLA | MG-ND | -3.68 | 1.98 | 2.05 |
| 21 | a | 1013 | CLA | MG-ND | -3.67 | 1.98 | 2.05 |
| 21 | a | 1128 | CLA | MG-ND | -3.67 | 1.98 | 2.05 |
| 21 | 1 | 1118 | CLA | MG-ND | -3.66 | 1.98 | 2.05 |
| 21 | 2 | 1022 | CLA | MG-ND | -3.66 | 1.98 | 2.05 |
| 28 | h | 4020 | 45D | C42-C38 | 3.66 | 1.54 | 1.43 |
| 21 | 1 | 1112 | CLA | MG-ND | -3.65 | 1.98 | 2.05 |
| 21 | 2 | 1209 | CLA | MG-ND | -3.65 | 1.98 | 2.05 |
| 21 | 1 | 1123 | CLA | MG-ND | -3.65 | 1.98 | 2.05 |
| 21 | B | 1208 | CLA | MG-ND | -3.65 | 1.98 | 2.05 |
| 21 | A | 1128 | CLA | MG-ND | -3.64 | 1.98 | 2.05 |
| 21 | 2 | 1220 | CLA | MG-ND | -3.64 | 1.98 | 2.05 |
| 21 | B | 1022 | CLA | MG-ND | -3.64 | 1.98 | 2.05 |
| 21 | 2 | 1228 | CLA | MG-ND | -3.63 | 1.98 | 2.05 |
| 21 | a | 1118 | CLA | MG-ND | -3.63 | 1.98 | 2.05 |
| 21 | a | 1012 | CLA | MG-ND | -3.63 | 1.98 | 2.05 |
| 21 | 2 | 1227 | CLA | MG-ND | -3.63 | 1.98 | 2.05 |
| 21 | B | 1211 | CLA | MG-ND | -3.63 | 1.98 | 2.05 |
| 21 | 2 | 1208 | CLA | MG-ND | -3.63 | 1.98 | 2.05 |
| 21 | a | 1104 | CLA | MG-ND | -3.62 | 1.98 | 2.05 |
| 21 | A | 1118 | CLA | MG-ND | -3.62 | 1.98 | 2.05 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | 2 | 1202 | CLA | MG-ND | -3.62 | 1.98 | 2.05 |
| 21 | 1 | 1140 | CLA | MG-ND | -3.61 | 1.98 | 2.05 |
| 21 | A | 1013 | CLA | MG-ND | -3.61 | 1.98 | 2.05 |
| 21 | 1 | 1133 | CLA | MG-ND | -3.61 | 1.98 | 2.05 |
| 21 | b | 1215 | CLA | MG-ND | -3.61 | 1.98 | 2.05 |
| 21 | b | 1220 | CLA | MG-ND | -3.61 | 1.98 | 2.05 |
| 21 | 1 | 1107 | CLA | MG-ND | -3.61 | 1.98 | 2.05 |
| 21 | B | 1210 | CLA | MG-ND | -3.60 | 1.98 | 2.05 |
| 21 | A | 1106 | CLA | MG-ND | -3.60 | 1.98 | 2.05 |
| 21 | 1 | 1129 | CLA | MG-ND | -3.60 | 1.98 | 2.05 |
| 21 | A | 1102 | CLA | MG-ND | -3.60 | 1.98 | 2.05 |
| 21 | a | 1137 | CLA | MG-ND | -3.60 | 1.98 | 2.05 |
| 21 | a | 1112 | CLA | MG-ND | -3.59 | 1.98 | 2.05 |
| 21 | 2 | 1232 | CLA | MG-ND | -3.59 | 1.98 | 2.05 |
| 21 | 2 | 1211 | CLA | MG-ND | -3.59 | 1.98 | 2.05 |
| 21 | 2 | 1217 | CLA | MG-ND | -3.59 | 1.98 | 2.05 |
| 21 | A | 1130 | CLA | MG-ND | -3.58 | 1.98 | 2.05 |
| 21 | A | 1012 | CLA | MG-ND | -3.58 | 1.98 | 2.05 |
| 21 | B | 1203 | CLA | MG-ND | -3.58 | 1.98 | 2.05 |
| 21 | b | 1023 | CLA | MG-ND | -3.58 | 1.98 | 2.05 |
| 28 | B | 4011 | 45D | C32-C30 | 3.58 | 1.54 | 1.43 |
| 21 | A | 1119 | CLA | MG-ND | -3.58 | 1.98 | 2.05 |
| 21 | 1 | 1127 | CLA | MG-ND | -3.58 | 1.98 | 2.05 |
| 21 | 1 | 1111 | CLA | MG-ND | -3.57 | 1.98 | 2.05 |
| 21 | b | 1237 | CLA | MG-ND | -3.57 | 1.98 | 2.05 |
| 21 | A | 1101 | CLA | MG-ND | -3.57 | 1.98 | 2.05 |
| 21 | A | 1137 | CLA | MG-ND | -3.57 | 1.98 | 2.05 |
| 21 | k | 1401 | CLA | MG-ND | -3.57 | 1.98 | 2.05 |
| 21 | B | 1217 | CLA | MG-ND | -3.57 | 1.98 | 2.05 |
| 21 | a | 1123 | CLA | MG-ND | -3.57 | 1.98 | 2.05 |
| 21 | B | 1202 | CLA | MG-ND | -3.56 | 1.98 | 2.05 |
| 21 | A | 1801 | CLA | MG-ND | -3.56 | 1.98 | 2.05 |
| 21 | a | 1109 | CLA | MG-ND | -3.56 | 1.98 | 2.05 |
| 21 | 1 | 1110 | CLA | MG-ND | -3.56 | 1.98 | 2.05 |
| 21 | B | 1224 | CLA | MG-ND | -3.56 | 1.98 | 2.05 |
| 21 | 2 | 1215 | CLA | MG-ND | -3.56 | 1.98 | 2.05 |
| 21 | F | 1302 | CLA | MG-ND | -3.56 | 1.98 | 2.05 |
| 21 | b | 1234 | CLA | MG-ND | -3.56 | 1.98 | 2.05 |
| 21 | B | 1206 | CLA | MG-ND | -3.56 | 1.98 | 2.05 |
| 21 | 2 | 1207 | CLA | MG-ND | -3.56 | 1.98 | 2.05 |
| 21 | 2 | 1206 | CLA | MG-ND | -3.55 | 1.98 | 2.05 |
| 21 | 1 | 1119 | CLA | MG-ND | -3.55 | 1.98 | 2.05 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|-------|-------------|----------|
| 21 | B | 1220 | CLA | MG-ND | -3.55 | 1.98 | 2.05 |
| 21 | 2 | 1201 | CLA | MG-ND | -3.55 | 1.98 | 2.05 |
| 21 | L | 1502 | CLA | MG-ND | -3.54 | 1.98 | 2.05 |
| 21 | a | 1110 | CLA | MG-ND | -3.54 | 1.98 | 2.05 |
| 21 | b | 1202 | CLA | MG-ND | -3.54 | 1.98 | 2.05 |
| 21 | b | 1216 | CLA | MG-ND | -3.54 | 1.98 | 2.05 |
| 21 | A | 1115 | CLA | MG-ND | -3.53 | 1.98 | 2.05 |
| 21 | 2 | 1230 | CLA | MG-ND | -3.53 | 1.98 | 2.05 |
| 21 | 1 | 1113 | CLA | MG-ND | -3.53 | 1.98 | 2.05 |
| 21 | 1 | 1128 | CLA | MG-ND | -3.53 | 1.98 | 2.05 |
| 21 | 1 | 1116 | CLA | MG-ND | -3.53 | 1.98 | 2.05 |
| 21 | 2 | 1223 | CLA | MG-ND | -3.53 | 1.98 | 2.05 |
| 21 | A | 1133 | CLA | MG-ND | -3.53 | 1.98 | 2.05 |
| 21 | A | 1134 | CLA | MG-ND | -3.53 | 1.98 | 2.05 |
| 21 | a | 1119 | CLA | MG-ND | -3.53 | 1.98 | 2.05 |
| 21 | 1 | 1103 | CLA | MG-ND | -3.53 | 1.98 | 2.05 |
| 21 | 2 | 1214 | CLA | MG-ND | -3.53 | 1.98 | 2.05 |
| 21 | b | 1240 | CLA | MG-ND | -3.53 | 1.98 | 2.05 |
| 21 | 1 | 1012 | CLA | MG-ND | -3.53 | 1.98 | 2.05 |
| 21 | b | 1238 | CLA | MG-ND | -3.52 | 1.98 | 2.05 |
| 21 | A | 1110 | CLA | MG-ND | -3.52 | 1.98 | 2.05 |
| 21 | b | 1204 | CLA | MG-ND | -3.52 | 1.98 | 2.05 |
| 21 | 2 | 1205 | CLA | MG-ND | -3.52 | 1.98 | 2.05 |
| 21 | A | 1125 | CLA | MG-ND | -3.52 | 1.98 | 2.05 |
| 21 | b | 1219 | CLA | MG-ND | -3.52 | 1.98 | 2.05 |
| 21 | a | 1138 | CLA | MG-ND | -3.52 | 1.98 | 2.05 |
| 21 | b | 1224 | CLA | MG-ND | -3.52 | 1.98 | 2.05 |
| 21 | a | 1113 | CLA | MG-ND | -3.52 | 1.98 | 2.05 |
| 21 | 1 | 1126 | CLA | MG-ND | -3.51 | 1.98 | 2.05 |
| 21 | 8 | 1401 | CLA | MG-ND | -3.51 | 1.98 | 2.05 |
| 21 | A | 1113 | CLA | MG-ND | -3.51 | 1.98 | 2.05 |
| 21 | a | 1121 | CLA | MG-ND | -3.51 | 1.98 | 2.05 |
| 21 | 1 | 1117 | CLA | MG-ND | -3.51 | 1.98 | 2.05 |
| 21 | J | 1303 | CLA | MG-ND | -3.50 | 1.98 | 2.05 |
| 21 | B | 1216 | CLA | MG-ND | -3.50 | 1.98 | 2.05 |
| 21 | B | 1231 | CLA | MG-ND | -3.50 | 1.98 | 2.05 |
| 21 | b | 1208 | CLA | MG-ND | -3.50 | 1.98 | 2.05 |
| 21 | 1 | 1104 | CLA | MG-ND | -3.50 | 1.98 | 2.05 |
| 21 | a | 1106 | CLA | MG-ND | -3.50 | 1.98 | 2.05 |
| 21 | 1 | 1101 | CLA | MG-ND | -3.50 | 1.98 | 2.05 |
| 21 | 1 | 1122 | CLA | MG-ND | -3.50 | 1.98 | 2.05 |
| 21 | B | 1209 | CLA | MG-ND | -3.50 | 1.98 | 2.05 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 28 | B | 4011 | 45D | C31-C29 | 3.49 | 1.54 | 1.43 |
| 21 | b | 1231 | CLA | MG-ND | -3.49 | 1.98 | 2.05 |
| 21 | 2 | 1231 | CLA | MG-ND | -3.49 | 1.98 | 2.05 |
| 21 | 1 | 1125 | CLA | MG-ND | -3.49 | 1.98 | 2.05 |
| 21 | 1 | 1132 | CLA | MG-ND | -3.49 | 1.98 | 2.05 |
| 21 | 1 | 1121 | CLA | MG-ND | -3.49 | 1.98 | 2.05 |
| 21 | 7 | 1302 | CLA | MG-ND | -3.49 | 1.98 | 2.05 |
| 21 | b | 1201 | CLA | MG-ND | -3.48 | 1.98 | 2.05 |
| 21 | A | 1132 | CLA | MG-ND | -3.48 | 1.98 | 2.05 |
| 21 | a | 1107 | CLA | MG-ND | -3.48 | 1.98 | 2.05 |
| 21 | 1 | 1114 | CLA | MG-ND | -3.48 | 1.98 | 2.05 |
| 21 | b | 1209 | CLA | MG-ND | -3.48 | 1.98 | 2.05 |
| 21 | 7 | 1303 | CLA | MG-ND | -3.48 | 1.98 | 2.05 |
| 21 | 8 | 1402 | CLA | MG-ND | -3.48 | 1.98 | 2.05 |
| 21 | B | 1201 | CLA | MG-ND | -3.48 | 1.98 | 2.05 |
| 21 | B | 1235 | CLA | MG-ND | -3.48 | 1.98 | 2.05 |
| 21 | a | 1115 | CLA | MG-ND | -3.48 | 1.98 | 2.05 |
| 21 | A | 1135 | CLA | MG-ND | -3.48 | 1.98 | 2.05 |
| 21 | a | 1130 | CLA | MG-ND | -3.48 | 1.98 | 2.05 |
| 21 | a | 1132 | CLA | MG-ND | -3.48 | 1.98 | 2.05 |
| 21 | 1 | 1138 | CLA | MG-ND | -3.48 | 1.98 | 2.05 |
| 21 | a | 1125 | CLA | MG-ND | -3.47 | 1.98 | 2.05 |
| 21 | a | 1102 | CLA | MG-ND | -3.47 | 1.98 | 2.05 |
| 21 | b | 1218 | CLA | MG-ND | -3.47 | 1.98 | 2.05 |
| 21 | A | 1112 | CLA | MG-ND | -3.47 | 1.98 | 2.05 |
| 21 | 1 | 1130 | CLA | MG-ND | -3.47 | 1.98 | 2.05 |
| 21 | a | 1114 | CLA | MG-ND | -3.47 | 1.98 | 2.05 |
| 21 | B | 1236 | CLA | MG-ND | -3.47 | 1.98 | 2.05 |
| 21 | f | 1302 | CLA | MG-ND | -3.47 | 1.98 | 2.05 |
| 28 | h | 4020 | 45D | C41-C37 | 3.47 | 1.54 | 1.43 |
| 21 | a | 1116 | CLA | MG-ND | -3.47 | 1.98 | 2.05 |
| 21 | a | 1111 | CLA | MG-ND | -3.47 | 1.98 | 2.05 |
| 21 | b | 1205 | CLA | MG-ND | -3.46 | 1.98 | 2.05 |
| 21 | b | 1228 | CLA | MG-ND | -3.46 | 1.98 | 2.05 |
| 21 | B | 1214 | CLA | MG-ND | -3.46 | 1.98 | 2.05 |
| 21 | A | 1123 | CLA | MG-ND | -3.46 | 1.98 | 2.05 |
| 21 | b | 1203 | CLA | MG-ND | -3.46 | 1.98 | 2.05 |
| 21 | a | 1131 | CLA | MG-ND | -3.46 | 1.98 | 2.05 |
| 21 | a | 1139 | CLA | MG-ND | -3.46 | 1.98 | 2.05 |
| 21 | B | 1234 | CLA | MG-ND | -3.46 | 1.98 | 2.05 |
| 21 | 1 | 1108 | CLA | MG-ND | -3.46 | 1.98 | 2.05 |
| 21 | b | 1022 | CLA | MG-ND | -3.45 | 1.98 | 2.05 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | a | 1135 | CLA | MG-ND | -3.45 | 1.98 | 2.05 |
| 21 | A | 1105 | CLA | MG-ND | -3.45 | 1.98 | 2.05 |
| 21 | 1 | 1106 | CLA | MG-ND | -3.45 | 1.98 | 2.05 |
| 21 | a | 1117 | CLA | MG-ND | -3.45 | 1.98 | 2.05 |
| 21 | f | 1301 | CLA | MG-ND | -3.45 | 1.99 | 2.05 |
| 21 | a | 1105 | CLA | MG-ND | -3.45 | 1.99 | 2.05 |
| 21 | A | 1116 | CLA | MG-ND | -3.45 | 1.99 | 2.05 |
| 21 | 1 | 1120 | CLA | MG-ND | -3.45 | 1.99 | 2.05 |
| 21 | b | 1239 | CLA | MG-ND | -3.44 | 1.99 | 2.05 |
| 21 | K | 1401 | CLA | MG-ND | -3.44 | 1.99 | 2.05 |
| 21 | b | 1227 | CLA | MG-ND | -3.44 | 1.99 | 2.05 |
| 21 | 2 | 1213 | CLA | MG-ND | -3.44 | 1.99 | 2.05 |
| 21 | B | 1223 | CLA | MG-ND | -3.44 | 1.99 | 2.05 |
| 21 | 2 | 1212 | CLA | MG-ND | -3.44 | 1.99 | 2.05 |
| 21 | b | 1212 | CLA | MG-ND | -3.44 | 1.99 | 2.05 |
| 21 | A | 1103 | CLA | MG-ND | -3.44 | 1.99 | 2.05 |
| 21 | A | 1107 | CLA | MG-ND | -3.44 | 1.99 | 2.05 |
| 21 | 1 | 1801 | CLA | MG-ND | -3.44 | 1.99 | 2.05 |
| 21 | 1 | 1102 | CLA | MG-ND | -3.43 | 1.99 | 2.05 |
| 21 | a | 1801 | CLA | MG-ND | -3.43 | 1.99 | 2.05 |
| 21 | b | 1214 | CLA | MG-ND | -3.43 | 1.99 | 2.05 |
| 21 | b | 1217 | CLA | MG-ND | -3.43 | 1.99 | 2.05 |
| 21 | 1 | 1109 | CLA | MG-ND | -3.43 | 1.99 | 2.05 |
| 21 | 2 | 1235 | CLA | MG-ND | -3.43 | 1.99 | 2.05 |
| 21 | A | 1126 | CLA | MG-ND | -3.43 | 1.99 | 2.05 |
| 21 | a | 1122 | CLA | MG-ND | -3.43 | 1.99 | 2.05 |
| 21 | 2 | 1224 | CLA | MG-ND | -3.43 | 1.99 | 2.05 |
| 21 | a | 1108 | CLA | MG-ND | -3.43 | 1.99 | 2.05 |
| 21 | a | 1129 | CLA | MG-ND | -3.43 | 1.99 | 2.05 |
| 21 | B | 1218 | CLA | MG-ND | -3.43 | 1.99 | 2.05 |
| 21 | a | 1101 | CLA | MG-ND | -3.42 | 1.99 | 2.05 |
| 21 | B | 1228 | CLA | MG-ND | -3.42 | 1.99 | 2.05 |
| 21 | B | 1232 | CLA | MG-ND | -3.42 | 1.99 | 2.05 |
| 21 | A | 1127 | CLA | MG-ND | -3.42 | 1.99 | 2.05 |
| 21 | a | 1134 | CLA | MG-ND | -3.42 | 1.99 | 2.05 |
| 21 | 6 | 1301 | CLA | MG-ND | -3.42 | 1.99 | 2.05 |
| 21 | 2 | 1216 | CLA | MG-ND | -3.41 | 1.99 | 2.05 |
| 28 | h | 4020 | 45D | C31-C29 | 3.41 | 1.54 | 1.43 |
| 21 | b | 1235 | CLA | MG-ND | -3.41 | 1.99 | 2.05 |
| 21 | 2 | 1238 | CLA | MG-ND | -3.41 | 1.99 | 2.05 |
| 21 | l | 1502 | CLA | MG-ND | -3.41 | 1.99 | 2.05 |
| 21 | j | 1302 | CLA | MG-ND | -3.41 | 1.99 | 2.05 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | 2 | 1218 | CLA | MG-ND | -3.41 | 1.99 | 2.05 |
| 21 | k | 1402 | CLA | MG-ND | -3.41 | 1.99 | 2.05 |
| 21 | 2 | 1219 | CLA | MG-ND | -3.41 | 1.99 | 2.05 |
| 21 | A | 1122 | CLA | MG-ND | -3.41 | 1.99 | 2.05 |
| 21 | B | 1202 | CLA | CBB-CAB | 3.41 | 1.51 | 1.29 |
| 21 | A | 1117 | CLA | CBB-CAB | 3.41 | 1.51 | 1.29 |
| 21 | 1 | 1139 | CLA | MG-ND | -3.40 | 1.99 | 2.05 |
| 21 | b | 1202 | CLA | CBB-CAB | 3.40 | 1.51 | 1.29 |
| 21 | A | 1138 | CLA | MG-ND | -3.40 | 1.99 | 2.05 |
| 21 | 2 | 1234 | CLA | MG-ND | -3.40 | 1.99 | 2.05 |
| 21 | a | 1126 | CLA | MG-ND | -3.40 | 1.99 | 2.05 |
| 21 | b | 1236 | CLA | MG-ND | -3.40 | 1.99 | 2.05 |
| 21 | 1 | 1124 | CLA | MG-ND | -3.40 | 1.99 | 2.05 |
| 21 | 2 | 1204 | CLA | MG-ND | -3.40 | 1.99 | 2.05 |
| 21 | a | 1136 | CLA | MG-ND | -3.40 | 1.99 | 2.05 |
| 21 | K | 1402 | CLA | MG-ND | -3.40 | 1.99 | 2.05 |
| 21 | 2 | 1237 | CLA | MG-ND | -3.40 | 1.99 | 2.05 |
| 21 | j | 1303 | CLA | MG-ND | -3.39 | 1.99 | 2.05 |
| 21 | A | 1139 | CLA | MG-ND | -3.39 | 1.99 | 2.05 |
| 21 | b | 1210 | CLA | MG-ND | -3.39 | 1.99 | 2.05 |
| 21 | j | 1302 | CLA | CBB-CAB | 3.39 | 1.51 | 1.29 |
| 21 | 2 | 1222 | CLA | MG-ND | -3.39 | 1.99 | 2.05 |
| 21 | 2 | 1234 | CLA | CBB-CAB | 3.39 | 1.51 | 1.29 |
| 21 | A | 1127 | CLA | CBB-CAB | 3.38 | 1.51 | 1.29 |
| 21 | B | 1222 | CLA | MG-ND | -3.38 | 1.99 | 2.05 |
| 21 | 0 | 1503 | CLA | MG-ND | -3.38 | 1.99 | 2.05 |
| 21 | A | 1013 | CLA | CBB-CAB | 3.38 | 1.51 | 1.29 |
| 21 | 1 | 1132 | CLA | CBB-CAB | 3.38 | 1.51 | 1.29 |
| 21 | 6 | 1302 | CLA | CBB-CAB | 3.38 | 1.51 | 1.29 |
| 21 | a | 1113 | CLA | CBB-CAB | 3.38 | 1.51 | 1.29 |
| 21 | a | 1127 | CLA | MG-ND | -3.38 | 1.99 | 2.05 |
| 21 | a | 1117 | CLA | CBB-CAB | 3.38 | 1.51 | 1.29 |
| 21 | B | 1213 | CLA | CBB-CAB | 3.38 | 1.51 | 1.29 |
| 21 | A | 1111 | CLA | MG-ND | -3.38 | 1.99 | 2.05 |
| 21 | l | 1501 | CLA | CBB-CAB | 3.38 | 1.51 | 1.29 |
| 21 | B | 1234 | CLA | CBB-CAB | 3.38 | 1.51 | 1.29 |
| 21 | A | 1123 | CLA | CBB-CAB | 3.38 | 1.51 | 1.29 |
| 21 | b | 1234 | CLA | CBB-CAB | 3.38 | 1.51 | 1.29 |
| 21 | B | 1240 | CLA | MG-ND | -3.38 | 1.99 | 2.05 |
| 21 | B | 1228 | CLA | CBB-CAB | 3.38 | 1.51 | 1.29 |
| 21 | 6 | 1301 | CLA | CBB-CAB | 3.37 | 1.51 | 1.29 |
| 21 | L | 1501 | CLA | CBB-CAB | 3.37 | 1.51 | 1.29 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | 2 | 1210 | CLA | MG-ND | -3.37 | 1.99 | 2.05 |
| 21 | 0 | 1502 | CLA | MG-ND | -3.37 | 1.99 | 2.05 |
| 21 | 2 | 1230 | CLA | CBB-CAB | 3.37 | 1.51 | 1.29 |
| 21 | 1 | 1503 | CLA | CBB-CAB | 3.37 | 1.51 | 1.29 |
| 21 | 2 | 1023 | CLA | CBB-CAB | 3.37 | 1.51 | 1.29 |
| 21 | B | 1219 | CLA | MG-ND | -3.37 | 1.99 | 2.05 |
| 21 | A | 1109 | CLA | CBB-CAB | 3.37 | 1.51 | 1.29 |
| 21 | B | 1206 | CLA | CBB-CAB | 3.37 | 1.51 | 1.29 |
| 21 | B | 1229 | CLA | MG-ND | -3.37 | 1.99 | 2.05 |
| 21 | b | 1222 | CLA | CBB-CAB | 3.37 | 1.51 | 1.29 |
| 21 | 8 | 1402 | CLA | CBB-CAB | 3.37 | 1.51 | 1.29 |
| 21 | 2 | 1212 | CLA | CBB-CAB | 3.37 | 1.51 | 1.29 |
| 21 | A | 1131 | CLA | CBB-CAB | 3.37 | 1.51 | 1.29 |
| 21 | a | 1128 | CLA | CBB-CAB | 3.37 | 1.51 | 1.29 |
| 21 | a | 1801 | CLA | CBB-CAB | 3.37 | 1.51 | 1.29 |
| 21 | a | 1121 | CLA | CBB-CAB | 3.37 | 1.51 | 1.29 |
| 21 | k | 1401 | CLA | CBB-CAB | 3.37 | 1.51 | 1.29 |
| 21 | K | 1401 | CLA | CBB-CAB | 3.37 | 1.51 | 1.29 |
| 21 | A | 1102 | CLA | CBB-CAB | 3.37 | 1.51 | 1.29 |
| 21 | B | 1224 | CLA | CBB-CAB | 3.37 | 1.51 | 1.29 |
| 21 | 1 | 1103 | CLA | CBB-CAB | 3.37 | 1.51 | 1.29 |
| 21 | A | 1138 | CLA | CBB-CAB | 3.37 | 1.51 | 1.29 |
| 21 | F | 1301 | CLA | MG-ND | -3.37 | 1.99 | 2.05 |
| 21 | a | 1118 | CLA | CBB-CAB | 3.37 | 1.51 | 1.29 |
| 21 | a | 1104 | CLA | CBB-CAB | 3.37 | 1.51 | 1.29 |
| 21 | a | 1126 | CLA | CBB-CAB | 3.37 | 1.51 | 1.29 |
| 21 | a | 1102 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | A | 1119 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | b | 1224 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | A | 1130 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | 1 | 1134 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | 1 | 1125 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | 2 | 1209 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | 2 | 1216 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | 1 | 1113 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | 1 | 1118 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | B | 1023 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | 1 | 1114 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | 2 | 1206 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | 8 | 1401 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | b | 1231 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | A | 1104 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | b | 1215 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | A | 1120 | CLA | MG-ND | -3.36 | 1.99 | 2.05 |
| 21 | a | 1132 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | 1 | 1101 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | 2 | 1232 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | 1 | 1119 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | B | 1210 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | K | 1402 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | B | 1236 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | l | 1501 | CLA | MG-ND | -3.36 | 1.99 | 2.05 |
| 21 | 1 | 1137 | CLA | MG-ND | -3.36 | 1.99 | 2.05 |
| 21 | 2 | 1204 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | 2 | 1236 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | B | 1220 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | 2 | 1222 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | b | 1236 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | b | 1240 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | 1 | 1106 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | 1 | 1109 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | 1 | 1120 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | 1 | 1128 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | B | 1222 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | A | 1117 | CLA | MG-ND | -3.36 | 1.99 | 2.05 |
| 21 | 1 | 1801 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | j | 1303 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | 2 | 1210 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | 2 | 1224 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | a | 1012 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | a | 1114 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | 1 | 1122 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | A | 1103 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | A | 1132 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | 7 | 1303 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | 1 | 1013 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | J | 1302 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | L | 1503 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | 2 | 1202 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | 2 | 1239 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | A | 1134 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | b | 1230 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | 1 | 1104 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | a | 1013 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | b | 1201 | CLA | CBB-CAB | 3.36 | 1.51 | 1.29 |
| 21 | 1 | 1117 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | a | 1123 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | A | 1111 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | b | 1226 | CLA | MG-ND | -3.35 | 1.99 | 2.05 |
| 21 | 1 | 1102 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | A | 1106 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | 1 | 1130 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | 2 | 1235 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | b | 1206 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | 2 | 1203 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | a | 1109 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | 2 | 1213 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | F | 1301 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | B | 1218 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | B | 1211 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | a | 1130 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | a | 1124 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | a | 1125 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | B | 1226 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | k | 1402 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | B | 1230 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | a | 1120 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | b | 1022 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | b | 1221 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | l | 1502 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | B | 1217 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | B | 1231 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | b | 1021 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | A | 1129 | CLA | MG-ND | -3.35 | 1.99 | 2.05 |
| 21 | a | 1108 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | 1 | 1115 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | A | 1125 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | b | 1207 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | 1 | 1012 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | A | 1109 | CLA | MG-ND | -3.35 | 1.99 | 2.05 |
| 21 | A | 1012 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | a | 1112 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | 2 | 1217 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | 1 | 1123 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | b | 1211 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | b | 1218 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | J | 1303 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | A | 1113 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | 2 | 1201 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | B | 1238 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | A | 1128 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | B | 1209 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | b | 1223 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | 1 | 1135 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | 2 | 1221 | CLA | CBB-CAB | 3.35 | 1.51 | 1.29 |
| 21 | B | 1221 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | 2 | 1231 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | A | 1108 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | a | 1134 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | a | 1136 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | B | 1021 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | B | 1216 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | 1 | 1107 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | A | 1801 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | 1 | 1011 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | 0 | 1503 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | b | 1239 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | 1 | 1139 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | 2 | 1219 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | 2 | 1022 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | B | 1203 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | 2 | 1208 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | A | 1105 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | 2 | 1215 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | a | 1122 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | a | 1115 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | f | 1301 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | A | 1140 | CLA | MG-ND | -3.34 | 1.99 | 2.05 |
| 21 | 2 | 1211 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | 1 | 1108 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | b | 1023 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | f | 1302 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | 1 | 1140 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | A | 1118 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | 2 | 1218 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | 2 | 1236 | CLA | MG-ND | -3.34 | 1.99 | 2.05 |
| 21 | a | 1131 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | b | 1227 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | b | 1205 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | 1 | 1126 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | 2 | 1240 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | B | 1232 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | A | 1124 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | A | 1135 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | A | 1122 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | 1 | 1124 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | b | 1203 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | a | 1105 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | a | 1138 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | a | 1140 | CLA | CBB-CAB | 3.34 | 1.51 | 1.29 |
| 21 | 7 | 1302 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | A | 1120 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | A | 1137 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | a | 1107 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | B | 1215 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | B | 1201 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | B | 1235 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | b | 1219 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | B | 1208 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | 0 | 1502 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | 2 | 1238 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | a | 1103 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | a | 1139 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | b | 1228 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | 2 | 1223 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | a | 1011 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | a | 1133 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | B | 1223 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | a | 1127 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | 2 | 1229 | CLA | MG-ND | -3.33 | 1.99 | 2.05 |
| 21 | a | 1119 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | b | 1216 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | 1 | 1105 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | b | 1204 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | B | 1204 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | b | 1210 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | 2 | 1225 | CLA | MG-ND | -3.33 | 1.99 | 2.05 |
| 21 | b | 1208 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | b | 1213 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | 1 | 1133 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | A | 1139 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | B | 1239 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | B | 1204 | CLA | MG-ND | -3.33 | 1.99 | 2.05 |
| 21 | a | 1111 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | A | 1115 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | A | 1124 | CLA | MG-ND | -3.33 | 1.99 | 2.05 |
| 21 | A | 1126 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | a | 1101 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | 2 | 1021 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | A | 1114 | CLA | CBB-CAB | 3.33 | 1.51 | 1.29 |
| 21 | 2 | 1225 | CLA | CBB-CAB | 3.32 | 1.51 | 1.29 |
| 21 | B | 1207 | CLA | CBB-CAB | 3.32 | 1.51 | 1.29 |
| 21 | a | 1106 | CLA | CBB-CAB | 3.32 | 1.51 | 1.29 |
| 21 | A | 1011 | CLA | CBB-CAB | 3.32 | 1.51 | 1.29 |
| 21 | b | 1232 | CLA | CBB-CAB | 3.32 | 1.51 | 1.29 |
| 21 | L | 1502 | CLA | CBB-CAB | 3.32 | 1.51 | 1.29 |
| 21 | 1 | 1129 | CLA | CBB-CAB | 3.32 | 1.51 | 1.29 |
| 21 | A | 1121 | CLA | CBB-CAB | 3.32 | 1.51 | 1.29 |
| 21 | a | 1129 | CLA | CBB-CAB | 3.32 | 1.51 | 1.29 |
| 21 | 1 | 1110 | CLA | CBB-CAB | 3.32 | 1.51 | 1.29 |
| 21 | B | 1022 | CLA | CBB-CAB | 3.32 | 1.51 | 1.29 |
| 21 | a | 1120 | CLA | MG-ND | -3.32 | 1.99 | 2.05 |
| 21 | 1 | 1111 | CLA | CBB-CAB | 3.32 | 1.51 | 1.29 |
| 21 | a | 1116 | CLA | CBB-CAB | 3.32 | 1.51 | 1.29 |
| 21 | 1 | 1135 | CLA | MG-ND | -3.32 | 1.99 | 2.05 |
| 21 | B | 1230 | CLA | MG-ND | -3.32 | 1.99 | 2.05 |
| 21 | A | 1129 | CLA | CBB-CAB | 3.31 | 1.51 | 1.29 |
| 26 | K | 5009 | LMG | C43-C42 | -3.31 | 1.33 | 1.51 |
| 36 | I | 4020 | EQ3 | C35-C13 | 3.31 | 1.57 | 1.50 |
| 21 | 1 | 1137 | CLA | CBB-CAB | 3.31 | 1.51 | 1.29 |
| 21 | a | 1135 | CLA | CBB-CAB | 3.31 | 1.51 | 1.29 |
| 21 | A | 1110 | CLA | CBB-CAB | 3.31 | 1.51 | 1.29 |
| 21 | 2 | 1214 | CLA | CBB-CAB | 3.31 | 1.51 | 1.29 |
| 21 | 0 | 1501 | CLA | CBB-CAB | 3.31 | 1.51 | 1.29 |
| 21 | B | 1227 | CLA | MG-ND | -3.31 | 1.99 | 2.05 |
| 21 | b | 1226 | CLA | CBB-CAB | 3.31 | 1.51 | 1.29 |
| 21 | b | 1220 | CLA | CBB-CAB | 3.31 | 1.51 | 1.29 |
| 21 | b | 1237 | CLA | CBB-CAB | 3.31 | 1.51 | 1.29 |
| 21 | A | 1107 | CLA | CBB-CAB | 3.31 | 1.51 | 1.29 |
| 21 | 1 | 1127 | CLA | CBB-CAB | 3.31 | 1.51 | 1.29 |
| 21 | 1 | 1131 | CLA | CBB-CAB | 3.31 | 1.51 | 1.29 |
| 21 | B | 1219 | CLA | CBB-CAB | 3.31 | 1.51 | 1.29 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | b | 1207 | CLA | MG-ND | -3.31 | 1.99 | 2.05 |
| 21 | 2 | 1227 | CLA | CBB-CAB | 3.31 | 1.51 | 1.29 |
| 21 | B | 1229 | CLA | CBB-CAB | 3.31 | 1.51 | 1.29 |
| 21 | A | 1140 | CLA | CBB-CAB | 3.31 | 1.51 | 1.29 |
| 21 | 1 | 1121 | CLA | CBB-CAB | 3.31 | 1.51 | 1.29 |
| 21 | F | 1302 | CLA | CBB-CAB | 3.31 | 1.51 | 1.29 |
| 21 | 1 | 1112 | CLA | CBB-CAB | 3.31 | 1.51 | 1.29 |
| 21 | B | 1225 | CLA | CBB-CAB | 3.30 | 1.51 | 1.29 |
| 21 | B | 1237 | CLA | MG-ND | -3.30 | 1.99 | 2.05 |
| 21 | 1 | 1115 | CLA | MG-ND | -3.30 | 1.99 | 2.05 |
| 21 | A | 1136 | CLA | MG-ND | -3.30 | 1.99 | 2.05 |
| 21 | B | 1227 | CLA | CBB-CAB | 3.30 | 1.51 | 1.29 |
| 21 | 2 | 1228 | CLA | CBB-CAB | 3.30 | 1.51 | 1.29 |
| 21 | B | 1239 | CLA | MG-ND | -3.30 | 1.99 | 2.05 |
| 21 | 1 | 1105 | CLA | MG-ND | -3.30 | 1.99 | 2.05 |
| 21 | A | 1114 | CLA | MG-ND | -3.30 | 1.99 | 2.05 |
| 21 | A | 1136 | CLA | CBB-CAB | 3.30 | 1.51 | 1.29 |
| 21 | a | 1110 | CLA | CBB-CAB | 3.30 | 1.51 | 1.29 |
| 21 | a | 1137 | CLA | CBB-CAB | 3.30 | 1.51 | 1.29 |
| 21 | 1 | 1116 | CLA | CBB-CAB | 3.30 | 1.51 | 1.29 |
| 21 | B | 1212 | CLA | MG-ND | -3.30 | 1.99 | 2.05 |
| 21 | 2 | 1205 | CLA | CBB-CAB | 3.30 | 1.51 | 1.29 |
| 21 | b | 1209 | CLA | CBB-CAB | 3.30 | 1.51 | 1.29 |
| 21 | b | 1229 | CLA | CBB-CAB | 3.30 | 1.51 | 1.29 |
| 21 | 2 | 1207 | CLA | CBB-CAB | 3.29 | 1.51 | 1.29 |
| 21 | A | 1108 | CLA | MG-ND | -3.29 | 1.99 | 2.05 |
| 21 | b | 1213 | CLA | MG-ND | -3.29 | 1.99 | 2.05 |
| 21 | B | 1214 | CLA | CBB-CAB | 3.29 | 1.51 | 1.29 |
| 26 | b | 5002 | LMG | C40-C39 | -3.29 | 1.33 | 1.51 |
| 21 | b | 1229 | CLA | MG-ND | -3.29 | 1.99 | 2.05 |
| 21 | A | 1112 | CLA | CBB-CAB | 3.29 | 1.51 | 1.29 |
| 21 | b | 1217 | CLA | CBB-CAB | 3.29 | 1.51 | 1.29 |
| 21 | b | 1225 | CLA | CBB-CAB | 3.29 | 1.51 | 1.29 |
| 21 | 2 | 1220 | CLA | CBB-CAB | 3.29 | 1.51 | 1.29 |
| 26 | K | 5009 | LMG | C37-C36 | -3.29 | 1.33 | 1.51 |
| 21 | B | 1205 | CLA | CBB-CAB | 3.29 | 1.51 | 1.29 |
| 21 | B | 1240 | CLA | CBB-CAB | 3.29 | 1.51 | 1.29 |
| 21 | b | 1230 | CLA | MG-ND | -3.28 | 1.99 | 2.05 |
| 21 | 2 | 1229 | CLA | CBB-CAB | 3.28 | 1.51 | 1.29 |
| 21 | A | 1131 | CLA | MG-ND | -3.28 | 1.99 | 2.05 |
| 21 | B | 1205 | CLA | MG-ND | -3.28 | 1.99 | 2.05 |
| 26 | B | 5002 | LMG | C40-C39 | -3.28 | 1.33 | 1.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | B | 1212 | CLA | CBB-CAB | 3.28 | 1.51 | 1.29 |
| 21 | A | 1133 | CLA | CBB-CAB | 3.28 | 1.51 | 1.29 |
| 21 | b | 1232 | CLA | MG-ND | -3.27 | 1.99 | 2.05 |
| 21 | 1 | 1131 | CLA | MG-ND | -3.27 | 1.99 | 2.05 |
| 21 | b | 1235 | CLA | CBB-CAB | 3.27 | 1.51 | 1.29 |
| 21 | A | 1116 | CLA | CBB-CAB | 3.27 | 1.51 | 1.29 |
| 21 | 1 | 1136 | CLA | CBB-CAB | 3.27 | 1.51 | 1.29 |
| 21 | b | 1238 | CLA | CBB-CAB | 3.27 | 1.51 | 1.29 |
| 26 | B | 5002 | LMG | C25-C24 | -3.27 | 1.33 | 1.51 |
| 21 | 1 | 1138 | CLA | CBB-CAB | 3.27 | 1.51 | 1.29 |
| 26 | b | 5002 | LMG | C43-C42 | -3.27 | 1.33 | 1.51 |
| 26 | b | 5005 | LMG | C40-C39 | -3.27 | 1.33 | 1.51 |
| 36 | I | 4020 | EQ3 | C38-C26 | 3.27 | 1.57 | 1.50 |
| 26 | K | 5009 | LMG | C22-C21 | -3.26 | 1.33 | 1.51 |
| 21 | b | 1225 | CLA | MG-ND | -3.26 | 1.99 | 2.05 |
| 26 | 2 | 5005 | LMG | C37-C36 | -3.26 | 1.33 | 1.51 |
| 26 | B | 5002 | LMG | C43-C42 | -3.26 | 1.33 | 1.51 |
| 21 | 0 | 1501 | CLA | MG-ND | -3.26 | 1.99 | 2.05 |
| 26 | B | 5002 | LMG | C19-C18 | -3.26 | 1.33 | 1.51 |
| 21 | b | 1212 | CLA | CBB-CAB | 3.26 | 1.50 | 1.29 |
| 21 | b | 1214 | CLA | CBB-CAB | 3.26 | 1.50 | 1.29 |
| 26 | 2 | 5002 | LMG | C40-C39 | -3.26 | 1.33 | 1.51 |
| 26 | b | 5005 | LMG | C37-C36 | -3.26 | 1.33 | 1.51 |
| 21 | 1 | 1134 | CLA | MG-ND | -3.25 | 1.99 | 2.05 |
| 26 | K | 5009 | LMG | C40-C39 | -3.25 | 1.33 | 1.51 |
| 21 | 2 | 1226 | CLA | CBB-CAB | 3.25 | 1.50 | 1.29 |
| 26 | b | 5002 | LMG | C37-C36 | -3.25 | 1.33 | 1.51 |
| 26 | B | 5002 | LMG | C37-C36 | -3.25 | 1.33 | 1.51 |
| 26 | K | 5009 | LMG | C19-C18 | -3.25 | 1.33 | 1.51 |
| 26 | 1 | 5004 | LMG | C19-C18 | -3.25 | 1.33 | 1.51 |
| 26 | 2 | 5005 | LMG | C40-C39 | -3.25 | 1.33 | 1.51 |
| 21 | 1 | 1136 | CLA | MG-ND | -3.24 | 1.99 | 2.05 |
| 26 | 2 | 5005 | LMG | C22-C21 | -3.24 | 1.33 | 1.51 |
| 26 | 2 | 5002 | LMG | C37-C36 | -3.24 | 1.33 | 1.51 |
| 26 | 2 | 5002 | LMG | C19-C18 | -3.24 | 1.33 | 1.51 |
| 21 | b | 1211 | CLA | MG-ND | -3.24 | 1.99 | 2.05 |
| 26 | b | 5007 | LMG | C19-C18 | -3.24 | 1.33 | 1.51 |
| 36 | I | 4020 | EQ3 | O3-C3 | -3.24 | 1.33 | 1.43 |
| 26 | a | 5004 | LMG | C40-C39 | -3.24 | 1.33 | 1.51 |
| 26 | 0 | 5001 | LMG | C19-C18 | -3.24 | 1.33 | 1.51 |
| 21 | 2 | 1203 | CLA | MG-ND | -3.24 | 1.99 | 2.05 |
| 26 | 2 | 5002 | LMG | C43-C42 | -3.23 | 1.33 | 1.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 26 | 1 | 5004 | LMG | C22-C21 | -3.23 | 1.33 | 1.51 |
| 26 | b | 5002 | LMG | C19-C18 | -3.23 | 1.33 | 1.51 |
| 26 | A | 5002 | LMG | C37-C36 | -3.23 | 1.33 | 1.51 |
| 26 | B | 5005 | LMG | C37-C36 | -3.23 | 1.33 | 1.51 |
| 21 | A | 1101 | CLA | CBB-CAB | 3.22 | 1.50 | 1.29 |
| 26 | b | 5005 | LMG | C19-C18 | -3.22 | 1.33 | 1.51 |
| 21 | B | 1237 | CLA | CBB-CAB | 3.22 | 1.50 | 1.29 |
| 26 | a | 5004 | LMG | C43-C42 | -3.22 | 1.33 | 1.51 |
| 37 | L | 5004 | DGD | CAB-C9B | -3.22 | 1.33 | 1.51 |
| 26 | B | 5005 | LMG | C40-C39 | -3.22 | 1.33 | 1.51 |
| 26 | A | 5008 | LMG | C25-C24 | -3.22 | 1.33 | 1.51 |
| 26 | 0 | 5001 | LMG | C22-C21 | -3.22 | 1.33 | 1.51 |
| 21 | 2 | 1237 | CLA | CBB-CAB | 3.22 | 1.50 | 1.29 |
| 26 | 1 | 5004 | LMG | C25-C24 | -3.22 | 1.33 | 1.51 |
| 21 | a | 1124 | CLA | MG-ND | -3.22 | 1.99 | 2.05 |
| 26 | B | 5005 | LMG | C22-C21 | -3.21 | 1.33 | 1.51 |
| 26 | 0 | 5001 | LMG | C25-C24 | -3.21 | 1.33 | 1.51 |
| 26 | a | 5004 | LMG | C25-C24 | -3.21 | 1.33 | 1.51 |
| 26 | a | 5002 | LMG | C37-C36 | -3.21 | 1.33 | 1.51 |
| 21 | l | 1503 | CLA | MG-ND | -3.21 | 1.99 | 2.05 |
| 26 | A | 5004 | LMG | C25-C24 | -3.21 | 1.33 | 1.51 |
| 26 | A | 5002 | LMG | C40-C39 | -3.21 | 1.33 | 1.51 |
| 26 | a | 5004 | LMG | C37-C36 | -3.21 | 1.33 | 1.51 |
| 26 | 2 | 5005 | LMG | C19-C18 | -3.21 | 1.33 | 1.51 |
| 34 | F | 4016 | ZEX | C24-C25 | -3.21 | 1.47 | 1.50 |
| 26 | 2 | 5005 | LMG | C25-C24 | -3.21 | 1.33 | 1.51 |
| 21 | B | 1225 | CLA | MG-ND | -3.21 | 1.99 | 2.05 |
| 26 | B | 5005 | LMG | C19-C18 | -3.21 | 1.33 | 1.51 |
| 26 | A | 5008 | LMG | C40-C39 | -3.21 | 1.33 | 1.51 |
| 26 | B | 5005 | LMG | C25-C24 | -3.21 | 1.33 | 1.51 |
| 26 | b | 5007 | LMG | C40-C39 | -3.20 | 1.33 | 1.51 |
| 26 | A | 5008 | LMG | C22-C21 | -3.20 | 1.33 | 1.51 |
| 26 | 1 | 5002 | LMG | C37-C36 | -3.20 | 1.33 | 1.51 |
| 28 | h | 4020 | 45D | C20-C08 | 3.20 | 1.56 | 1.45 |
| 26 | A | 5008 | LMG | C19-C18 | -3.20 | 1.33 | 1.51 |
| 26 | 1 | 5002 | LMG | C40-C39 | -3.20 | 1.33 | 1.51 |
| 26 | b | 5005 | LMG | C22-C21 | -3.20 | 1.33 | 1.51 |
| 26 | 1 | 5002 | LMG | C19-C18 | -3.20 | 1.33 | 1.51 |
| 26 | A | 5008 | LMG | C43-C42 | -3.20 | 1.33 | 1.51 |
| 26 | b | 5002 | LMG | C25-C24 | -3.20 | 1.33 | 1.51 |
| 37 | L | 5004 | DGD | CDB-CCB | -3.20 | 1.33 | 1.51 |
| 26 | 0 | 5001 | LMG | C43-C42 | -3.19 | 1.33 | 1.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 26 | b | 5007 | LMG | C37-C36 | -3.19 | 1.33 | 1.51 |
| 37 | L | 5004 | DGD | CDA-CCA | -3.19 | 1.33 | 1.51 |
| 26 | 2 | 5002 | LMG | C22-C21 | -3.19 | 1.33 | 1.51 |
| 21 | 2 | 1239 | CLA | MG-ND | -3.19 | 1.99 | 2.05 |
| 26 | B | 5002 | LMG | C22-C21 | -3.19 | 1.33 | 1.51 |
| 26 | a | 5004 | LMG | C19-C18 | -3.19 | 1.33 | 1.51 |
| 21 | 2 | 1240 | CLA | MG-ND | -3.19 | 1.99 | 2.05 |
| 26 | 1 | 5004 | LMG | C40-C39 | -3.19 | 1.33 | 1.51 |
| 26 | 1 | 5004 | LMG | C43-C42 | -3.19 | 1.33 | 1.51 |
| 26 | K | 5009 | LMG | C25-C24 | -3.19 | 1.33 | 1.51 |
| 26 | b | 5007 | LMG | C43-C42 | -3.19 | 1.33 | 1.51 |
| 26 | a | 5002 | LMG | C40-C39 | -3.19 | 1.33 | 1.51 |
| 26 | A | 5008 | LMG | C37-C36 | -3.19 | 1.33 | 1.51 |
| 26 | b | 5002 | LMG | C22-C21 | -3.18 | 1.33 | 1.51 |
| 26 | b | 5005 | LMG | C25-C24 | -3.18 | 1.33 | 1.51 |
| 26 | 1 | 5002 | LMG | C43-C42 | -3.18 | 1.33 | 1.51 |
| 26 | A | 5004 | LMG | C22-C21 | -3.18 | 1.33 | 1.51 |
| 26 | b | 5007 | LMG | C22-C21 | -3.18 | 1.33 | 1.51 |
| 26 | a | 5002 | LMG | C19-C18 | -3.18 | 1.33 | 1.51 |
| 34 | j | 4015 | ZEX | C24-C25 | -3.18 | 1.47 | 1.50 |
| 26 | b | 5007 | LMG | C25-C24 | -3.18 | 1.33 | 1.51 |
| 26 | a | 5002 | LMG | C43-C42 | -3.17 | 1.33 | 1.51 |
| 34 | J | 4015 | ZEX | C24-C25 | -3.17 | 1.47 | 1.50 |
| 26 | 2 | 5002 | LMG | C25-C24 | -3.17 | 1.33 | 1.51 |
| 26 | a | 5004 | LMG | C22-C21 | -3.17 | 1.33 | 1.51 |
| 28 | B | 4011 | 45D | C20-C08 | 3.17 | 1.56 | 1.45 |
| 37 | L | 5004 | DGD | CGA-CFA | -3.17 | 1.33 | 1.51 |
| 37 | L | 5004 | DGD | CAA-C9A | -3.17 | 1.33 | 1.51 |
| 26 | 0 | 5001 | LMG | C37-C36 | -3.17 | 1.33 | 1.51 |
| 26 | 2 | 5005 | LMG | C43-C42 | -3.16 | 1.33 | 1.51 |
| 37 | L | 5004 | DGD | CGB-CFB | -3.16 | 1.33 | 1.51 |
| 26 | A | 5002 | LMG | C19-C18 | -3.16 | 1.33 | 1.51 |
| 26 | 1 | 5004 | LMG | C37-C36 | -3.16 | 1.33 | 1.51 |
| 26 | 0 | 5001 | LMG | C40-C39 | -3.16 | 1.33 | 1.51 |
| 21 | b | 1222 | CLA | MG-ND | -3.15 | 1.99 | 2.05 |
| 26 | A | 5002 | LMG | C43-C42 | -3.15 | 1.33 | 1.51 |
| 26 | b | 5005 | LMG | C43-C42 | -3.15 | 1.33 | 1.51 |
| 21 | L | 1503 | CLA | MG-ND | -3.15 | 1.99 | 2.05 |
| 21 | a | 1133 | CLA | MG-ND | -3.14 | 1.99 | 2.05 |
| 26 | A | 5004 | LMG | C19-C18 | -3.13 | 1.34 | 1.51 |
| 26 | B | 5005 | LMG | C43-C42 | -3.13 | 1.34 | 1.51 |
| 21 | A | 1121 | CLA | MG-ND | -3.10 | 1.99 | 2.05 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 36 | I | 4020 | EQ3 | C2-C1 | 3.09 | 1.64 | 1.54 |
| 21 | B | 1238 | CLA | MG-ND | -3.09 | 1.99 | 2.05 |
| 34 | 7 | 4015 | ZEX | C24-C25 | -3.09 | 1.47 | 1.50 |
| 34 | J | 4015 | ZEX | C27-C26 | 3.05 | 1.49 | 1.46 |
| 28 | h | 4020 | 45D | C19-C07 | 3.00 | 1.55 | 1.45 |
| 21 | B | 1022 | CLA | C1C-C2C | 3.00 | 1.50 | 1.44 |
| 30 | b | 4006 | ECH | C1-C6 | -2.99 | 1.49 | 1.53 |
| 21 | 2 | 1226 | CLA | C3B-C2B | -2.99 | 1.36 | 1.40 |
| 28 | h | 4020 | 45D | C32-C30 | 2.99 | 1.52 | 1.43 |
| 21 | A | 1101 | CLA | C1C-C2C | 2.99 | 1.50 | 1.44 |
| 21 | 1 | 1125 | CLA | C1C-C2C | 2.94 | 1.50 | 1.44 |
| 21 | B | 1023 | CLA | C1C-C2C | 2.93 | 1.50 | 1.44 |
| 28 | B | 4011 | 45D | C19-C07 | 2.93 | 1.55 | 1.45 |
| 34 | 7 | 4015 | ZEX | C27-C26 | 2.93 | 1.49 | 1.46 |
| 21 | A | 1136 | CLA | C1C-C2C | 2.92 | 1.50 | 1.44 |
| 21 | A | 1127 | CLA | C1C-C2C | 2.91 | 1.50 | 1.44 |
| 21 | a | 1135 | CLA | C3B-C2B | -2.91 | 1.36 | 1.40 |
| 21 | 1 | 1126 | CLA | C1C-C2C | 2.90 | 1.50 | 1.44 |
| 21 | B | 1225 | CLA | C1C-C2C | 2.89 | 1.50 | 1.44 |
| 21 | 1 | 1136 | CLA | C1C-C2C | 2.89 | 1.50 | 1.44 |
| 21 | B | 1216 | CLA | C1C-C2C | 2.89 | 1.50 | 1.44 |
| 21 | 1 | 1801 | CLA | C1C-C2C | 2.88 | 1.50 | 1.44 |
| 21 | B | 1229 | CLA | C1C-C2C | 2.88 | 1.50 | 1.44 |
| 36 | I | 4020 | EQ3 | C24-C25 | 2.88 | 1.55 | 1.45 |
| 21 | 2 | 1234 | CLA | C1C-C2C | 2.88 | 1.50 | 1.44 |
| 21 | f | 1301 | CLA | C1C-C2C | 2.87 | 1.50 | 1.44 |
| 21 | B | 1227 | CLA | C1C-C2C | 2.87 | 1.50 | 1.44 |
| 36 | I | 4020 | EQ3 | C16-C17 | 2.86 | 1.52 | 1.43 |
| 21 | A | 1101 | CLA | CHC-C1C | 2.86 | 1.42 | 1.35 |
| 21 | 1 | 1127 | CLA | C1C-C2C | 2.86 | 1.50 | 1.44 |
| 21 | B | 1202 | CLA | C1C-C2C | 2.86 | 1.50 | 1.44 |
| 21 | 0 | 1502 | CLA | C1C-C2C | 2.85 | 1.50 | 1.44 |
| 21 | a | 1118 | CLA | C1C-C2C | 2.85 | 1.50 | 1.44 |
| 21 | B | 1212 | CLA | C1C-C2C | 2.85 | 1.50 | 1.44 |
| 21 | b | 1212 | CLA | C3B-C2B | -2.85 | 1.36 | 1.40 |
| 21 | A | 1013 | CLA | CHC-C1C | 2.85 | 1.42 | 1.35 |
| 21 | 1 | 1011 | CLA | C1C-C2C | 2.85 | 1.50 | 1.44 |
| 21 | A | 1132 | CLA | C1C-C2C | 2.85 | 1.50 | 1.44 |
| 21 | 2 | 1022 | CLA | C1C-C2C | 2.85 | 1.50 | 1.44 |
| 21 | 2 | 1240 | CLA | C1C-C2C | 2.85 | 1.50 | 1.44 |
| 21 | b | 1234 | CLA | C1C-C2C | 2.84 | 1.50 | 1.44 |
| 36 | I | 4020 | EQ3 | C33-C5 | 2.84 | 1.55 | 1.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | b | 1214 | CLA | C1C-C2C | 2.84 | 1.50 | 1.44 |
| 21 | a | 1011 | CLA | C1C-C2C | 2.83 | 1.50 | 1.44 |
| 21 | 2 | 1236 | CLA | C1C-C2C | 2.83 | 1.50 | 1.44 |
| 21 | A | 1114 | CLA | C3B-C2B | -2.83 | 1.36 | 1.40 |
| 21 | A | 1117 | CLA | C1C-C2C | 2.83 | 1.50 | 1.44 |
| 21 | b | 1021 | CLA | C1C-C2C | 2.83 | 1.50 | 1.44 |
| 21 | B | 1225 | CLA | C3B-C2B | -2.82 | 1.36 | 1.40 |
| 21 | 1 | 1131 | CLA | C1C-C2C | 2.82 | 1.50 | 1.44 |
| 21 | 2 | 1229 | CLA | C1C-C2C | 2.82 | 1.50 | 1.44 |
| 21 | 2 | 1207 | CLA | C3B-C2B | -2.82 | 1.36 | 1.40 |
| 21 | A | 1126 | CLA | C1C-C2C | 2.82 | 1.50 | 1.44 |
| 21 | A | 1102 | CLA | C1C-C2C | 2.82 | 1.50 | 1.44 |
| 21 | a | 1126 | CLA | C1C-C2C | 2.82 | 1.50 | 1.44 |
| 21 | b | 1229 | CLA | C1C-C2C | 2.82 | 1.50 | 1.44 |
| 21 | 2 | 1216 | CLA | C1C-C2C | 2.82 | 1.50 | 1.44 |
| 21 | j | 1303 | CLA | C1C-C2C | 2.81 | 1.50 | 1.44 |
| 21 | A | 1136 | CLA | CHC-C1C | 2.81 | 1.42 | 1.35 |
| 21 | 1 | 1012 | CLA | C1C-C2C | 2.81 | 1.50 | 1.44 |
| 21 | B | 1234 | CLA | C1C-C2C | 2.81 | 1.50 | 1.44 |
| 21 | a | 1127 | CLA | C1C-C2C | 2.81 | 1.50 | 1.44 |
| 21 | A | 1120 | CLA | C1C-C2C | 2.81 | 1.50 | 1.44 |
| 21 | B | 1236 | CLA | C1C-C2C | 2.81 | 1.50 | 1.44 |
| 21 | B | 1235 | CLA | C1C-C2C | 2.81 | 1.50 | 1.44 |
| 21 | a | 1101 | CLA | C1C-C2C | 2.81 | 1.50 | 1.44 |
| 21 | 1 | 1105 | CLA | C1C-C2C | 2.81 | 1.50 | 1.44 |
| 21 | 2 | 1208 | CLA | C1C-C2C | 2.81 | 1.50 | 1.44 |
| 21 | B | 1239 | CLA | C1C-C2C | 2.80 | 1.50 | 1.44 |
| 21 | 1 | 1013 | CLA | C1C-C2C | 2.80 | 1.50 | 1.44 |
| 21 | 2 | 1215 | CLA | C1C-C2C | 2.80 | 1.50 | 1.44 |
| 21 | B | 1229 | CLA | C3B-C2B | -2.79 | 1.36 | 1.40 |
| 21 | 1 | 1132 | CLA | C1C-C2C | 2.79 | 1.50 | 1.44 |
| 21 | B | 1238 | CLA | C1C-C2C | 2.79 | 1.50 | 1.44 |
| 21 | b | 1240 | CLA | C1C-C2C | 2.79 | 1.50 | 1.44 |
| 21 | 2 | 1023 | CLA | C1C-C2C | 2.79 | 1.50 | 1.44 |
| 21 | 1 | 1138 | CLA | C1C-C2C | 2.79 | 1.50 | 1.44 |
| 21 | B | 1023 | CLA | CHC-C1C | 2.79 | 1.42 | 1.35 |
| 21 | A | 1108 | CLA | C1C-C2C | 2.78 | 1.50 | 1.44 |
| 21 | a | 1012 | CLA | C1C-C2C | 2.78 | 1.50 | 1.44 |
| 21 | a | 1116 | CLA | C1C-C2C | 2.78 | 1.49 | 1.44 |
| 21 | 2 | 1235 | CLA | C1C-C2C | 2.78 | 1.49 | 1.44 |
| 21 | b | 1022 | CLA | C1C-C2C | 2.78 | 1.49 | 1.44 |
| 21 | A | 1105 | CLA | C3B-C2B | -2.78 | 1.36 | 1.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | A | 1118 | CLA | C1C-C2C | 2.78 | 1.49 | 1.44 |
| 21 | l | 1502 | CLA | C1C-C2C | 2.78 | 1.49 | 1.44 |
| 21 | 2 | 1239 | CLA | C3B-C2B | -2.78 | 1.36 | 1.40 |
| 21 | A | 1104 | CLA | C1C-C2C | 2.78 | 1.49 | 1.44 |
| 21 | b | 1218 | CLA | C1C-C2C | 2.78 | 1.49 | 1.44 |
| 21 | 1 | 1801 | CLA | CHC-C1C | 2.78 | 1.42 | 1.35 |
| 21 | B | 1211 | CLA | C1C-C2C | 2.77 | 1.49 | 1.44 |
| 21 | a | 1110 | CLA | C3B-C2B | -2.77 | 1.36 | 1.40 |
| 21 | B | 1228 | CLA | C1C-C2C | 2.77 | 1.49 | 1.44 |
| 21 | 6 | 1302 | CLA | C1C-C2C | 2.77 | 1.49 | 1.44 |
| 21 | 2 | 1229 | CLA | C3B-C2B | -2.77 | 1.36 | 1.40 |
| 21 | A | 1113 | CLA | C1C-C2C | 2.77 | 1.49 | 1.44 |
| 21 | b | 1212 | CLA | C1C-C2C | 2.77 | 1.49 | 1.44 |
| 21 | a | 1108 | CLA | C1C-C2C | 2.77 | 1.49 | 1.44 |
| 21 | b | 1202 | CLA | C1C-C2C | 2.77 | 1.49 | 1.44 |
| 21 | a | 1129 | CLA | C1C-C2C | 2.77 | 1.49 | 1.44 |
| 21 | B | 1220 | CLA | C1C-C2C | 2.76 | 1.49 | 1.44 |
| 21 | A | 1110 | CLA | C1C-C2C | 2.76 | 1.49 | 1.44 |
| 21 | 1 | 1116 | CLA | C1C-C2C | 2.76 | 1.49 | 1.44 |
| 21 | 2 | 1203 | CLA | C1C-C2C | 2.76 | 1.49 | 1.44 |
| 21 | 1 | 1136 | CLA | CHC-C1C | 2.75 | 1.42 | 1.35 |
| 21 | B | 1232 | CLA | C3B-C2B | -2.75 | 1.36 | 1.40 |
| 21 | 1 | 1107 | CLA | C1C-C2C | 2.75 | 1.49 | 1.44 |
| 21 | 1 | 1129 | CLA | C1C-C2C | 2.75 | 1.49 | 1.44 |
| 21 | b | 1239 | CLA | C3B-C2B | -2.75 | 1.36 | 1.40 |
| 21 | b | 1226 | CLA | C3B-C2B | -2.75 | 1.36 | 1.40 |
| 21 | A | 1110 | CLA | C3B-C2B | -2.75 | 1.36 | 1.40 |
| 21 | a | 1110 | CLA | C1C-C2C | 2.75 | 1.49 | 1.44 |
| 21 | l | 1503 | CLA | C1C-C2C | 2.75 | 1.49 | 1.44 |
| 21 | A | 1101 | CLA | C3B-C2B | -2.75 | 1.36 | 1.40 |
| 21 | a | 1139 | CLA | C1C-C2C | 2.75 | 1.49 | 1.44 |
| 21 | b | 1219 | CLA | C1C-C2C | 2.75 | 1.49 | 1.44 |
| 21 | B | 1223 | CLA | C1C-C2C | 2.75 | 1.49 | 1.44 |
| 21 | a | 1134 | CLA | C1C-C2C | 2.75 | 1.49 | 1.44 |
| 21 | 2 | 1227 | CLA | C3B-C2B | -2.74 | 1.36 | 1.40 |
| 21 | a | 1013 | CLA | C1C-C2C | 2.74 | 1.49 | 1.44 |
| 21 | 1 | 1113 | CLA | C1C-C2C | 2.74 | 1.49 | 1.44 |
| 21 | b | 1229 | CLA | C3B-C2B | -2.74 | 1.36 | 1.40 |
| 21 | 1 | 1108 | CLA | C1C-C2C | 2.74 | 1.49 | 1.44 |
| 21 | b | 1023 | CLA | CHC-C1C | 2.74 | 1.42 | 1.35 |
| 21 | B | 1207 | CLA | C1C-C2C | 2.74 | 1.49 | 1.44 |
| 21 | 1 | 1101 | CLA | C1C-C2C | 2.74 | 1.49 | 1.44 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | J | 1302 | CLA | C1C-C2C | 2.74 | 1.49 | 1.44 |
| 21 | a | 1130 | CLA | C1C-C2C | 2.74 | 1.49 | 1.44 |
| 21 | J | 1303 | CLA | C1C-C2C | 2.73 | 1.49 | 1.44 |
| 21 | A | 1116 | CLA | C1C-C2C | 2.73 | 1.49 | 1.44 |
| 21 | 2 | 1202 | CLA | C1C-C2C | 2.73 | 1.49 | 1.44 |
| 21 | B | 1223 | CLA | C3B-C2B | -2.73 | 1.36 | 1.40 |
| 21 | b | 1232 | CLA | C1C-C2C | 2.73 | 1.49 | 1.44 |
| 21 | 7 | 1302 | CLA | C1C-C2C | 2.73 | 1.49 | 1.44 |
| 21 | a | 1113 | CLA | C1C-C2C | 2.73 | 1.49 | 1.44 |
| 21 | b | 1023 | CLA | C1C-C2C | 2.73 | 1.49 | 1.44 |
| 21 | 2 | 1230 | CLA | C1C-C2C | 2.73 | 1.49 | 1.44 |
| 21 | B | 1230 | CLA | C1C-C2C | 2.73 | 1.49 | 1.44 |
| 21 | B | 1207 | CLA | C1C-NC | -2.73 | 1.33 | 1.37 |
| 21 | 1 | 1138 | CLA | C3B-C2B | -2.73 | 1.36 | 1.40 |
| 21 | 1 | 1110 | CLA | C1C-C2C | 2.72 | 1.49 | 1.44 |
| 21 | B | 1212 | CLA | C3B-C2B | -2.72 | 1.36 | 1.40 |
| 21 | B | 1219 | CLA | C3B-C2B | -2.72 | 1.36 | 1.40 |
| 21 | a | 1131 | CLA | C1C-C2C | 2.72 | 1.49 | 1.44 |
| 21 | b | 1207 | CLA | C1C-C2C | 2.72 | 1.49 | 1.44 |
| 21 | k | 1402 | CLA | C1C-C2C | 2.72 | 1.49 | 1.44 |
| 21 | 2 | 1201 | CLA | C1C-C2C | 2.72 | 1.49 | 1.44 |
| 21 | 2 | 1223 | CLA | C1C-C2C | 2.72 | 1.49 | 1.44 |
| 21 | A | 1011 | CLA | CHC-C1C | 2.72 | 1.41 | 1.35 |
| 21 | 1 | 1120 | CLA | C1C-C2C | 2.72 | 1.49 | 1.44 |
| 21 | A | 1113 | CLA | CHC-C1C | 2.71 | 1.41 | 1.35 |
| 21 | B | 1213 | CLA | C1C-C2C | 2.71 | 1.49 | 1.44 |
| 21 | B | 1240 | CLA | C1C-C2C | 2.71 | 1.49 | 1.44 |
| 21 | a | 1138 | CLA | C1C-C2C | 2.71 | 1.49 | 1.44 |
| 21 | 2 | 1220 | CLA | C1C-C2C | 2.71 | 1.49 | 1.44 |
| 21 | B | 1215 | CLA | C1C-C2C | 2.71 | 1.49 | 1.44 |
| 21 | b | 1217 | CLA | C1C-C2C | 2.71 | 1.49 | 1.44 |
| 21 | a | 1121 | CLA | C1C-C2C | 2.71 | 1.49 | 1.44 |
| 21 | 2 | 1211 | CLA | C1C-C2C | 2.71 | 1.49 | 1.44 |
| 21 | A | 1133 | CLA | C3B-C2B | -2.71 | 1.36 | 1.40 |
| 21 | a | 1125 | CLA | C1C-C2C | 2.71 | 1.49 | 1.44 |
| 21 | A | 1105 | CLA | C1C-C2C | 2.71 | 1.49 | 1.44 |
| 21 | B | 1219 | CLA | C1C-C2C | 2.71 | 1.49 | 1.44 |
| 21 | b | 1215 | CLA | C1C-C2C | 2.70 | 1.49 | 1.44 |
| 21 | b | 1207 | CLA | C3B-C2B | -2.70 | 1.36 | 1.40 |
| 35 | 0 | 6001 | LMT | O3'-C3' | -2.70 | 1.36 | 1.43 |
| 21 | a | 1119 | CLA | C1C-C2C | 2.70 | 1.49 | 1.44 |
| 21 | A | 1137 | CLA | C1C-NC | -2.70 | 1.33 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | B | 1214 | CLA | C3B-C2B | -2.70 | 1.36 | 1.40 |
| 21 | A | 1011 | CLA | C1C-C2C | 2.70 | 1.49 | 1.44 |
| 21 | B | 1208 | CLA | C1C-C2C | 2.70 | 1.49 | 1.44 |
| 21 | 1 | 1109 | CLA | C1C-C2C | 2.70 | 1.49 | 1.44 |
| 21 | 0 | 1501 | CLA | C1C-C2C | 2.70 | 1.49 | 1.44 |
| 21 | a | 1136 | CLA | C1C-C2C | 2.70 | 1.49 | 1.44 |
| 21 | A | 1140 | CLA | CHC-C1C | 2.70 | 1.41 | 1.35 |
| 21 | 6 | 1302 | CLA | CHC-C1C | 2.70 | 1.41 | 1.35 |
| 21 | 2 | 1207 | CLA | C1C-C2C | 2.69 | 1.49 | 1.44 |
| 21 | a | 1140 | CLA | C1C-C2C | 2.69 | 1.49 | 1.44 |
| 21 | B | 1238 | CLA | CHC-C1C | 2.69 | 1.41 | 1.35 |
| 21 | a | 1117 | CLA | C1C-C2C | 2.69 | 1.49 | 1.44 |
| 21 | 2 | 1217 | CLA | C1C-C2C | 2.69 | 1.49 | 1.44 |
| 36 | I | 4020 | EQ3 | C20-C21 | 2.69 | 1.51 | 1.43 |
| 21 | 2 | 1213 | CLA | C1C-C2C | 2.69 | 1.49 | 1.44 |
| 21 | 1 | 1133 | CLA | C3B-C2B | -2.69 | 1.36 | 1.40 |
| 21 | b | 1239 | CLA | C1C-C2C | 2.69 | 1.49 | 1.44 |
| 21 | 1 | 1137 | CLA | C1C-C2C | 2.69 | 1.49 | 1.44 |
| 21 | 2 | 1210 | CLA | C1C-C2C | 2.69 | 1.49 | 1.44 |
| 21 | A | 1140 | CLA | C1C-C2C | 2.69 | 1.49 | 1.44 |
| 21 | 2 | 1222 | CLA | CHC-C1C | 2.68 | 1.41 | 1.35 |
| 21 | a | 1011 | CLA | CHC-C1C | 2.68 | 1.41 | 1.35 |
| 21 | 2 | 1218 | CLA | C1C-C2C | 2.68 | 1.49 | 1.44 |
| 21 | 1 | 1126 | CLA | CHC-C1C | 2.68 | 1.41 | 1.35 |
| 21 | A | 1126 | CLA | CHC-C1C | 2.68 | 1.41 | 1.35 |
| 21 | b | 1226 | CLA | CHC-C1C | 2.68 | 1.41 | 1.35 |
| 21 | 8 | 1402 | CLA | C1C-C2C | 2.68 | 1.49 | 1.44 |
| 21 | 2 | 1228 | CLA | C1C-C2C | 2.68 | 1.49 | 1.44 |
| 21 | 2 | 1204 | CLA | C1C-C2C | 2.68 | 1.49 | 1.44 |
| 21 | 2 | 1222 | CLA | C1C-C2C | 2.68 | 1.49 | 1.44 |
| 21 | k | 1401 | CLA | C1C-C2C | 2.68 | 1.49 | 1.44 |
| 35 | F | 6001 | LMT | O3'-C3' | -2.67 | 1.36 | 1.43 |
| 21 | 1 | 1106 | CLA | C1C-C2C | 2.67 | 1.49 | 1.44 |
| 21 | B | 1207 | CLA | C3B-C2B | -2.67 | 1.36 | 1.40 |
| 21 | A | 1125 | CLA | C1C-C2C | 2.67 | 1.49 | 1.44 |
| 21 | B | 1217 | CLA | C1C-C2C | 2.67 | 1.49 | 1.44 |
| 21 | a | 1115 | CLA | C1C-C2C | 2.67 | 1.49 | 1.44 |
| 35 | l | 6001 | LMT | O3'-C3' | -2.67 | 1.36 | 1.43 |
| 21 | a | 1137 | CLA | C3B-C2B | -2.67 | 1.36 | 1.40 |
| 21 | b | 1220 | CLA | C1C-C2C | 2.67 | 1.49 | 1.44 |
| 21 | 2 | 1227 | CLA | C1C-C2C | 2.67 | 1.49 | 1.44 |
| 21 | a | 1133 | CLA | C3B-C2B | -2.67 | 1.36 | 1.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | b | 1231 | CLA | C1C-C2C | 2.67 | 1.49 | 1.44 |
| 21 | B | 1224 | CLA | C1C-C2C | 2.67 | 1.49 | 1.44 |
| 21 | B | 1021 | CLA | C1C-C2C | 2.67 | 1.49 | 1.44 |
| 21 | a | 1104 | CLA | C1C-C2C | 2.67 | 1.49 | 1.44 |
| 21 | 2 | 1216 | CLA | CHC-C1C | 2.67 | 1.41 | 1.35 |
| 21 | a | 1112 | CLA | C1C-C2C | 2.67 | 1.49 | 1.44 |
| 21 | B | 1209 | CLA | C1C-C2C | 2.66 | 1.49 | 1.44 |
| 21 | 1 | 1139 | CLA | C1C-C2C | 2.66 | 1.49 | 1.44 |
| 30 | B | 4006 | ECH | C1-C6 | -2.66 | 1.50 | 1.53 |
| 21 | a | 1123 | CLA | C1C-C2C | 2.66 | 1.49 | 1.44 |
| 21 | 1 | 1140 | CLA | C1C-C2C | 2.66 | 1.49 | 1.44 |
| 21 | A | 1106 | CLA | C1C-C2C | 2.66 | 1.49 | 1.44 |
| 21 | 1 | 1114 | CLA | C1C-C2C | 2.66 | 1.49 | 1.44 |
| 21 | A | 1138 | CLA | CHC-C1C | 2.66 | 1.41 | 1.35 |
| 21 | b | 1228 | CLA | C1C-C2C | 2.66 | 1.49 | 1.44 |
| 21 | A | 1133 | CLA | C1C-C2C | 2.66 | 1.49 | 1.44 |
| 21 | L | 1503 | CLA | C1C-C2C | 2.66 | 1.49 | 1.44 |
| 21 | a | 1135 | CLA | C1C-C2C | 2.66 | 1.49 | 1.44 |
| 21 | b | 1216 | CLA | C1C-C2C | 2.66 | 1.49 | 1.44 |
| 21 | a | 1129 | CLA | CHC-C1C | 2.66 | 1.41 | 1.35 |
| 21 | a | 1126 | CLA | CHC-C1C | 2.66 | 1.41 | 1.35 |
| 21 | A | 1129 | CLA | C1C-C2C | 2.66 | 1.49 | 1.44 |
| 21 | b | 1211 | CLA | C1C-C2C | 2.66 | 1.49 | 1.44 |
| 21 | 1 | 1135 | CLA | C1C-C2C | 2.66 | 1.49 | 1.44 |
| 21 | 2 | 1209 | CLA | C1C-C2C | 2.66 | 1.49 | 1.44 |
| 21 | 8 | 1401 | CLA | C1C-C2C | 2.66 | 1.49 | 1.44 |
| 21 | A | 1108 | CLA | CHC-C1C | 2.66 | 1.41 | 1.35 |
| 21 | b | 1222 | CLA | CHC-C1C | 2.66 | 1.41 | 1.35 |
| 21 | L | 1501 | CLA | C1C-C2C | 2.65 | 1.49 | 1.44 |
| 21 | 2 | 1212 | CLA | C1C-C2C | 2.65 | 1.49 | 1.44 |
| 21 | A | 1801 | CLA | C1C-C2C | 2.65 | 1.49 | 1.44 |
| 21 | b | 1229 | CLA | CHC-C1C | 2.65 | 1.41 | 1.35 |
| 21 | b | 1217 | CLA | C3B-C2B | -2.65 | 1.36 | 1.40 |
| 21 | a | 1137 | CLA | C1C-C2C | 2.65 | 1.49 | 1.44 |
| 21 | 1 | 1118 | CLA | C1C-C2C | 2.65 | 1.49 | 1.44 |
| 21 | j | 1302 | CLA | C1C-C2C | 2.65 | 1.49 | 1.44 |
| 21 | 2 | 1232 | CLA | C1C-C2C | 2.65 | 1.49 | 1.44 |
| 21 | F | 1301 | CLA | MG-NC | 2.65 | 2.12 | 2.06 |
| 21 | 2 | 1206 | CLA | C1C-C2C | 2.65 | 1.49 | 1.44 |
| 21 | l | 1502 | CLA | CHC-C1C | 2.65 | 1.41 | 1.35 |
| 21 | b | 1235 | CLA | C1C-C2C | 2.65 | 1.49 | 1.44 |
| 21 | a | 1127 | CLA | C3B-C2B | -2.65 | 1.36 | 1.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | 1 | 1101 | CLA | C3B-C2B | -2.65 | 1.36 | 1.40 |
| 21 | b | 1212 | CLA | CHC-C1C | 2.65 | 1.41 | 1.35 |
| 21 | B | 1204 | CLA | C1C-C2C | 2.65 | 1.49 | 1.44 |
| 21 | b | 1224 | CLA | C1C-C2C | 2.65 | 1.49 | 1.44 |
| 21 | f | 1302 | CLA | C1C-C2C | 2.65 | 1.49 | 1.44 |
| 21 | A | 1801 | CLA | CHC-C1C | 2.65 | 1.41 | 1.35 |
| 21 | B | 1022 | CLA | CHC-C1C | 2.64 | 1.41 | 1.35 |
| 21 | b | 1209 | CLA | C1C-C2C | 2.64 | 1.49 | 1.44 |
| 21 | a | 1111 | CLA | C1C-C2C | 2.64 | 1.49 | 1.44 |
| 21 | b | 1228 | CLA | C3B-C2B | -2.64 | 1.36 | 1.40 |
| 21 | 2 | 1225 | CLA | C1C-C2C | 2.64 | 1.49 | 1.44 |
| 35 | L | 6001 | LMT | O3'-C3' | -2.64 | 1.36 | 1.43 |
| 21 | a | 1132 | CLA | C1C-C2C | 2.64 | 1.49 | 1.44 |
| 21 | a | 1118 | CLA | CHC-C1C | 2.64 | 1.41 | 1.35 |
| 21 | b | 1211 | CLA | CHC-C1C | 2.64 | 1.41 | 1.35 |
| 21 | 2 | 1231 | CLA | C1C-C2C | 2.64 | 1.49 | 1.44 |
| 21 | A | 1134 | CLA | C1C-C2C | 2.64 | 1.49 | 1.44 |
| 21 | a | 1133 | CLA | C1C-C2C | 2.64 | 1.49 | 1.44 |
| 21 | a | 1131 | CLA | CHC-C1C | 2.64 | 1.41 | 1.35 |
| 21 | b | 1230 | CLA | C1C-C2C | 2.64 | 1.49 | 1.44 |
| 21 | B | 1225 | CLA | CHC-C1C | 2.64 | 1.41 | 1.35 |
| 21 | 1 | 1013 | CLA | CHC-C1C | 2.64 | 1.41 | 1.35 |
| 21 | 2 | 1209 | CLA | C3B-C2B | -2.64 | 1.36 | 1.40 |
| 21 | a | 1123 | CLA | MG-NC | 2.63 | 2.12 | 2.06 |
| 21 | 2 | 1217 | CLA | MG-NC | 2.63 | 2.12 | 2.06 |
| 21 | a | 1106 | CLA | C1C-C2C | 2.63 | 1.49 | 1.44 |
| 21 | A | 1013 | CLA | C1C-C2C | 2.63 | 1.49 | 1.44 |
| 21 | A | 1107 | CLA | C1C-C2C | 2.63 | 1.49 | 1.44 |
| 21 | A | 1114 | CLA | C1C-C2C | 2.63 | 1.49 | 1.44 |
| 21 | 1 | 1125 | CLA | CHC-C1C | 2.63 | 1.41 | 1.35 |
| 21 | 0 | 1502 | CLA | CHC-C1C | 2.63 | 1.41 | 1.35 |
| 21 | 2 | 1228 | CLA | C3B-C2B | -2.63 | 1.36 | 1.40 |
| 21 | b | 1223 | CLA | C1C-C2C | 2.63 | 1.49 | 1.44 |
| 21 | a | 1013 | CLA | CHC-C1C | 2.63 | 1.41 | 1.35 |
| 21 | 1 | 1112 | CLA | C1C-C2C | 2.63 | 1.49 | 1.44 |
| 21 | B | 1210 | CLA | MG-NC | 2.63 | 2.12 | 2.06 |
| 21 | A | 1127 | CLA | CHC-C1C | 2.63 | 1.41 | 1.35 |
| 21 | B | 1232 | CLA | C1C-C2C | 2.63 | 1.49 | 1.44 |
| 21 | B | 1236 | CLA | C3B-C2B | -2.63 | 1.36 | 1.40 |
| 21 | A | 1104 | CLA | CHC-C1C | 2.63 | 1.41 | 1.35 |
| 21 | 1 | 1105 | CLA | CHC-C1C | 2.63 | 1.41 | 1.35 |
| 21 | 1 | 1012 | CLA | CHC-C1C | 2.63 | 1.41 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | 2 | 1238 | CLA | C3B-C2B | -2.62 | 1.36 | 1.40 |
| 21 | A | 1131 | CLA | C1C-C2C | 2.62 | 1.49 | 1.44 |
| 21 | B | 1221 | CLA | C1C-C2C | 2.62 | 1.49 | 1.44 |
| 21 | 2 | 1219 | CLA | C1C-C2C | 2.62 | 1.49 | 1.44 |
| 21 | A | 1137 | CLA | C3B-C2B | -2.62 | 1.36 | 1.40 |
| 21 | B | 1230 | CLA | CHC-C1C | 2.62 | 1.41 | 1.35 |
| 21 | 6 | 1301 | CLA | C1C-C2C | 2.62 | 1.49 | 1.44 |
| 21 | 2 | 1023 | CLA | CHC-C1C | 2.62 | 1.41 | 1.35 |
| 21 | 2 | 1218 | CLA | CHC-C1C | 2.62 | 1.41 | 1.35 |
| 21 | A | 1111 | CLA | C1C-C2C | 2.62 | 1.49 | 1.44 |
| 21 | A | 1119 | CLA | C1C-C2C | 2.62 | 1.49 | 1.44 |
| 21 | B | 1231 | CLA | C1C-C2C | 2.62 | 1.49 | 1.44 |
| 21 | l | 1503 | CLA | CHC-C1C | 2.62 | 1.41 | 1.35 |
| 21 | b | 1208 | CLA | C1C-C2C | 2.62 | 1.49 | 1.44 |
| 21 | 2 | 1225 | CLA | C3B-C2B | -2.62 | 1.36 | 1.40 |
| 21 | F | 1301 | CLA | C1C-C2C | 2.62 | 1.49 | 1.44 |
| 21 | A | 1126 | CLA | MG-NC | 2.61 | 2.12 | 2.06 |
| 21 | F | 1302 | CLA | C3B-C2B | -2.61 | 1.36 | 1.40 |
| 21 | b | 1235 | CLA | CHC-C1C | 2.61 | 1.41 | 1.35 |
| 21 | 2 | 1201 | CLA | CHC-C1C | 2.61 | 1.41 | 1.35 |
| 21 | K | 1401 | CLA | C1C-C2C | 2.61 | 1.49 | 1.44 |
| 21 | l | 1124 | CLA | C1C-C2C | 2.61 | 1.49 | 1.44 |
| 21 | B | 1228 | CLA | CHC-C1C | 2.61 | 1.41 | 1.35 |
| 21 | a | 1134 | CLA | CHC-C1C | 2.61 | 1.41 | 1.35 |
| 21 | b | 1203 | CLA | C1C-C2C | 2.61 | 1.49 | 1.44 |
| 21 | A | 1110 | CLA | CHC-C1C | 2.61 | 1.41 | 1.35 |
| 21 | b | 1201 | CLA | CHC-C1C | 2.61 | 1.41 | 1.35 |
| 21 | b | 1213 | CLA | C1C-C2C | 2.61 | 1.49 | 1.44 |
| 21 | 2 | 1221 | CLA | C1C-C2C | 2.61 | 1.49 | 1.44 |
| 21 | B | 1209 | CLA | C3B-C2B | -2.61 | 1.36 | 1.40 |
| 21 | b | 1232 | CLA | CHC-C1C | 2.61 | 1.41 | 1.35 |
| 36 | I | 4020 | EQ3 | C40-C30 | 2.61 | 1.58 | 1.53 |
| 21 | a | 1114 | CLA | C1C-C2C | 2.61 | 1.49 | 1.44 |
| 21 | b | 1210 | CLA | C1C-C2C | 2.61 | 1.49 | 1.44 |
| 21 | B | 1211 | CLA | CHC-C1C | 2.61 | 1.41 | 1.35 |
| 28 | B | 4011 | 45D | O02-C18 | -2.61 | 1.17 | 1.23 |
| 21 | b | 1236 | CLA | C3B-C2B | -2.61 | 1.36 | 1.40 |
| 21 | 2 | 1223 | CLA | C3B-C2B | -2.61 | 1.36 | 1.40 |
| 21 | 2 | 1229 | CLA | C1C-NC | -2.61 | 1.33 | 1.37 |
| 21 | b | 1230 | CLA | C3B-C2B | -2.60 | 1.36 | 1.40 |
| 21 | 1 | 1132 | CLA | CHC-C1C | 2.60 | 1.41 | 1.35 |
| 21 | 2 | 1212 | CLA | CHC-C1C | 2.60 | 1.41 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | b | 1225 | CLA | C1C-C2C | 2.60 | 1.49 | 1.44 |
| 21 | A | 1118 | CLA | CHC-C1C | 2.60 | 1.41 | 1.35 |
| 21 | B | 1216 | CLA | CHC-C1C | 2.60 | 1.41 | 1.35 |
| 21 | B | 1220 | CLA | CHC-C1C | 2.60 | 1.41 | 1.35 |
| 21 | b | 1231 | CLA | CHC-C1C | 2.60 | 1.41 | 1.35 |
| 21 | a | 1131 | CLA | C3B-C2B | -2.60 | 1.36 | 1.40 |
| 21 | 1 | 1115 | CLA | C1C-C2C | 2.60 | 1.49 | 1.44 |
| 21 | 2 | 1237 | CLA | C1C-C2C | 2.60 | 1.49 | 1.44 |
| 21 | 1 | 1011 | CLA | CHC-C1C | 2.60 | 1.41 | 1.35 |
| 21 | b | 1240 | CLA | MG-NC | 2.60 | 2.12 | 2.06 |
| 21 | 1 | 1135 | CLA | MG-NC | 2.60 | 2.12 | 2.06 |
| 21 | A | 1120 | CLA | CHC-C1C | 2.60 | 1.41 | 1.35 |
| 21 | 2 | 1234 | CLA | CHC-C1C | 2.60 | 1.41 | 1.35 |
| 21 | 1 | 1123 | CLA | MG-NC | 2.60 | 2.12 | 2.06 |
| 21 | 1 | 1121 | CLA | C1C-C2C | 2.60 | 1.49 | 1.44 |
| 21 | 1 | 1111 | CLA | C1C-C2C | 2.60 | 1.49 | 1.44 |
| 21 | k | 1401 | CLA | CHC-C1C | 2.60 | 1.41 | 1.35 |
| 21 | A | 1130 | CLA | C1C-C2C | 2.60 | 1.49 | 1.44 |
| 21 | a | 1801 | CLA | C1C-C2C | 2.60 | 1.49 | 1.44 |
| 21 | 2 | 1208 | CLA | CHC-C1C | 2.60 | 1.41 | 1.35 |
| 21 | 1 | 1130 | CLA | C1C-C2C | 2.59 | 1.49 | 1.44 |
| 21 | A | 1136 | CLA | C3B-C2B | -2.59 | 1.36 | 1.40 |
| 21 | b | 1021 | CLA | CHC-C1C | 2.59 | 1.41 | 1.35 |
| 21 | 0 | 1503 | CLA | C1C-C2C | 2.59 | 1.49 | 1.44 |
| 21 | 2 | 1238 | CLA | CHC-C1C | 2.59 | 1.41 | 1.35 |
| 21 | A | 1012 | CLA | C1C-C2C | 2.59 | 1.49 | 1.44 |
| 21 | 1 | 1131 | CLA | CHC-C1C | 2.59 | 1.41 | 1.35 |
| 21 | B | 1206 | CLA | C1C-C2C | 2.59 | 1.49 | 1.44 |
| 21 | a | 1105 | CLA | C1C-C2C | 2.59 | 1.49 | 1.44 |
| 21 | 1 | 1133 | CLA | C1C-C2C | 2.59 | 1.49 | 1.44 |
| 21 | A | 1133 | CLA | CHC-C1C | 2.59 | 1.41 | 1.35 |
| 21 | A | 1112 | CLA | C1C-C2C | 2.59 | 1.49 | 1.44 |
| 21 | 0 | 1501 | CLA | CHC-C1C | 2.59 | 1.41 | 1.35 |
| 21 | F | 1302 | CLA | C1C-C2C | 2.59 | 1.49 | 1.44 |
| 21 | 1 | 1127 | CLA | C3B-C2B | -2.59 | 1.36 | 1.40 |
| 21 | a | 1120 | CLA | C1C-C2C | 2.59 | 1.49 | 1.44 |
| 21 | A | 1132 | CLA | CHC-C1C | 2.59 | 1.41 | 1.35 |
| 21 | 7 | 1302 | CLA | C3B-C2B | -2.59 | 1.36 | 1.40 |
| 21 | A | 1130 | CLA | CHC-C1C | 2.59 | 1.41 | 1.35 |
| 21 | a | 1101 | CLA | CHC-C1C | 2.59 | 1.41 | 1.35 |
| 21 | b | 1214 | CLA | CHC-C1C | 2.59 | 1.41 | 1.35 |
| 21 | 1 | 1137 | CLA | C1C-NC | -2.59 | 1.33 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | a | 1110 | CLA | CHC-C1C | 2.59 | 1.41 | 1.35 |
| 21 | B | 1212 | CLA | CHC-C1C | 2.59 | 1.41 | 1.35 |
| 21 | a | 1108 | CLA | CHC-C1C | 2.59 | 1.41 | 1.35 |
| 21 | 1 | 1104 | CLA | C1C-C2C | 2.59 | 1.49 | 1.44 |
| 21 | b | 1227 | CLA | C1C-C2C | 2.59 | 1.49 | 1.44 |
| 21 | J | 1302 | CLA | CHC-C1C | 2.59 | 1.41 | 1.35 |
| 21 | B | 1227 | CLA | C3B-C2B | -2.58 | 1.36 | 1.40 |
| 21 | 1 | 1138 | CLA | CHC-C1C | 2.58 | 1.41 | 1.35 |
| 21 | b | 1202 | CLA | CHC-C1C | 2.58 | 1.41 | 1.35 |
| 21 | 1 | 1107 | CLA | CHC-C1C | 2.58 | 1.41 | 1.35 |
| 21 | 1 | 1134 | CLA | CHC-C1C | 2.58 | 1.41 | 1.35 |
| 21 | a | 1128 | CLA | C1C-C2C | 2.58 | 1.49 | 1.44 |
| 21 | 2 | 1203 | CLA | CHC-C1C | 2.58 | 1.41 | 1.35 |
| 21 | 2 | 1210 | CLA | CHC-C1C | 2.58 | 1.41 | 1.35 |
| 21 | 2 | 1213 | CLA | CHC-C1C | 2.58 | 1.41 | 1.35 |
| 28 | h | 4020 | 45D | C17-C15 | 2.58 | 1.53 | 1.47 |
| 21 | A | 1117 | CLA | CHC-C1C | 2.58 | 1.41 | 1.35 |
| 21 | b | 1216 | CLA | C3B-C2B | -2.58 | 1.36 | 1.40 |
| 21 | 1 | 1129 | CLA | CHC-C1C | 2.58 | 1.41 | 1.35 |
| 21 | 0 | 1502 | CLA | MG-NC | 2.58 | 2.12 | 2.06 |
| 21 | B | 1236 | CLA | CHC-C1C | 2.58 | 1.41 | 1.35 |
| 21 | b | 1226 | CLA | C1C-C2C | 2.58 | 1.49 | 1.44 |
| 21 | b | 1216 | CLA | CHC-C1C | 2.58 | 1.41 | 1.35 |
| 21 | A | 1131 | CLA | C3B-C2B | -2.58 | 1.36 | 1.40 |
| 21 | b | 1204 | CLA | C3B-C2B | -2.58 | 1.36 | 1.40 |
| 21 | 1 | 1134 | CLA | C1C-C2C | 2.58 | 1.49 | 1.44 |
| 21 | 2 | 1021 | CLA | C1C-C2C | 2.57 | 1.49 | 1.44 |
| 21 | A | 1139 | CLA | C1C-C2C | 2.57 | 1.49 | 1.44 |
| 21 | B | 1227 | CLA | CHC-C1C | 2.57 | 1.41 | 1.35 |
| 21 | 1 | 1116 | CLA | CHC-C1C | 2.57 | 1.41 | 1.35 |
| 21 | A | 1124 | CLA | CHC-C1C | 2.57 | 1.41 | 1.35 |
| 21 | 8 | 1402 | CLA | CHC-C1C | 2.57 | 1.41 | 1.35 |
| 21 | 2 | 1238 | CLA | C1C-C2C | 2.57 | 1.49 | 1.44 |
| 21 | b | 1219 | CLA | C3B-C2B | -2.57 | 1.36 | 1.40 |
| 21 | A | 1137 | CLA | CHC-C1C | 2.57 | 1.41 | 1.35 |
| 21 | A | 1129 | CLA | CHC-C1C | 2.57 | 1.41 | 1.35 |
| 21 | A | 1137 | CLA | C1C-C2C | 2.57 | 1.49 | 1.44 |
| 21 | a | 1107 | CLA | C1C-C2C | 2.57 | 1.49 | 1.44 |
| 21 | 2 | 1240 | CLA | CHC-C1C | 2.57 | 1.41 | 1.35 |
| 21 | 2 | 1224 | CLA | C1C-C2C | 2.57 | 1.49 | 1.44 |
| 21 | 2 | 1221 | CLA | MG-NC | 2.57 | 2.12 | 2.06 |
| 21 | b | 1219 | CLA | CHC-C1C | 2.57 | 1.41 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | b | 1022 | CLA | CHC-C1C | 2.57 | 1.41 | 1.35 |
| 21 | 2 | 1219 | CLA | C3B-C2B | -2.57 | 1.36 | 1.40 |
| 21 | B | 1240 | CLA | CHC-C1C | 2.57 | 1.41 | 1.35 |
| 21 | a | 1125 | CLA | CHC-C1C | 2.56 | 1.41 | 1.35 |
| 21 | 2 | 1217 | CLA | C3B-C2B | -2.56 | 1.36 | 1.40 |
| 21 | 1 | 1137 | CLA | CHC-C1C | 2.56 | 1.41 | 1.35 |
| 21 | a | 1122 | CLA | C1C-C2C | 2.56 | 1.49 | 1.44 |
| 21 | 2 | 1214 | CLA | C1C-C2C | 2.56 | 1.49 | 1.44 |
| 21 | B | 1207 | CLA | CHC-C1C | 2.56 | 1.41 | 1.35 |
| 21 | A | 1125 | CLA | C1C-NC | -2.56 | 1.34 | 1.37 |
| 21 | 2 | 1229 | CLA | CHC-C1C | 2.56 | 1.41 | 1.35 |
| 21 | B | 1217 | CLA | C3B-C2B | -2.56 | 1.36 | 1.40 |
| 21 | a | 1116 | CLA | C3B-C2B | -2.56 | 1.36 | 1.40 |
| 21 | 2 | 1215 | CLA | CHC-C1C | 2.56 | 1.41 | 1.35 |
| 21 | A | 1134 | CLA | C3B-C2B | -2.56 | 1.36 | 1.40 |
| 21 | B | 1218 | CLA | C1C-C2C | 2.56 | 1.49 | 1.44 |
| 21 | f | 1301 | CLA | CHC-C1C | 2.56 | 1.41 | 1.35 |
| 21 | 1 | 1119 | CLA | C1C-C2C | 2.56 | 1.49 | 1.44 |
| 21 | B | 1234 | CLA | CHC-C1C | 2.56 | 1.41 | 1.35 |
| 21 | A | 1119 | CLA | CHC-C1C | 2.56 | 1.41 | 1.35 |
| 21 | 1 | 1131 | CLA | C3B-C2B | -2.56 | 1.36 | 1.40 |
| 21 | 1 | 1134 | CLA | C3B-C2B | -2.56 | 1.36 | 1.40 |
| 21 | A | 1109 | CLA | CHC-C1C | 2.56 | 1.41 | 1.35 |
| 21 | b | 1210 | CLA | CHC-C1C | 2.56 | 1.41 | 1.35 |
| 21 | B | 1214 | CLA | C1C-C2C | 2.56 | 1.49 | 1.44 |
| 21 | a | 1116 | CLA | CHC-C1C | 2.56 | 1.41 | 1.35 |
| 21 | b | 1222 | CLA | C1C-C2C | 2.55 | 1.49 | 1.44 |
| 21 | B | 1211 | CLA | MG-NC | 2.55 | 2.12 | 2.06 |
| 21 | b | 1215 | CLA | CHC-C1C | 2.55 | 1.41 | 1.35 |
| 21 | B | 1216 | CLA | C3B-C2B | -2.55 | 1.36 | 1.40 |
| 21 | L | 1502 | CLA | C1C-C2C | 2.55 | 1.49 | 1.44 |
| 21 | a | 1117 | CLA | CHC-C1C | 2.55 | 1.41 | 1.35 |
| 21 | B | 1210 | CLA | C1C-C2C | 2.55 | 1.49 | 1.44 |
| 21 | a | 1121 | CLA | CHC-C1C | 2.55 | 1.41 | 1.35 |
| 21 | 7 | 1302 | CLA | CHC-C1C | 2.55 | 1.41 | 1.35 |
| 21 | 2 | 1225 | CLA | CHC-C1C | 2.55 | 1.41 | 1.35 |
| 21 | 7 | 1303 | CLA | MG-NC | 2.55 | 2.12 | 2.06 |
| 21 | 1 | 1127 | CLA | CHC-C1C | 2.55 | 1.41 | 1.35 |
| 21 | l | 1501 | CLA | C1C-C2C | 2.55 | 1.49 | 1.44 |
| 21 | 2 | 1210 | CLA | C1C-NC | -2.55 | 1.34 | 1.37 |
| 21 | a | 1127 | CLA | CHC-C1C | 2.55 | 1.41 | 1.35 |
| 21 | K | 1402 | CLA | C3B-C2B | -2.55 | 1.36 | 1.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | k | 1402 | CLA | CHC-C1C | 2.55 | 1.41 | 1.35 |
| 21 | K | 1402 | CLA | C1C-C2C | 2.55 | 1.49 | 1.44 |
| 21 | 2 | 1227 | CLA | CHC-C1C | 2.55 | 1.41 | 1.35 |
| 35 | 1 | 6001 | LMT | O3'-C3' | -2.55 | 1.37 | 1.43 |
| 21 | B | 1240 | CLA | MG-NC | 2.55 | 2.12 | 2.06 |
| 21 | b | 1204 | CLA | C1C-C2C | 2.55 | 1.49 | 1.44 |
| 21 | b | 1201 | CLA | C1C-C2C | 2.55 | 1.49 | 1.44 |
| 26 | A | 5004 | LMG | C37-C36 | -2.55 | 1.33 | 1.51 |
| 21 | b | 1234 | CLA | C1C-NC | -2.54 | 1.34 | 1.37 |
| 21 | a | 1124 | CLA | C1C-C2C | 2.54 | 1.49 | 1.44 |
| 21 | 1 | 1122 | CLA | C1C-C2C | 2.54 | 1.49 | 1.44 |
| 21 | a | 1139 | CLA | CHC-C1C | 2.54 | 1.41 | 1.35 |
| 21 | 1 | 1136 | CLA | C3B-C2B | -2.54 | 1.36 | 1.40 |
| 21 | B | 1206 | CLA | CHC-C1C | 2.54 | 1.41 | 1.35 |
| 21 | B | 1229 | CLA | CHC-C1C | 2.54 | 1.41 | 1.35 |
| 21 | j | 1303 | CLA | CHC-C1C | 2.54 | 1.41 | 1.35 |
| 21 | 2 | 1236 | CLA | CHC-C1C | 2.54 | 1.41 | 1.35 |
| 21 | a | 1114 | CLA | CHC-C1C | 2.54 | 1.41 | 1.35 |
| 21 | B | 1239 | CLA | C3B-C2B | -2.54 | 1.36 | 1.40 |
| 21 | 1 | 1110 | CLA | C3B-C2B | -2.54 | 1.36 | 1.40 |
| 21 | 1 | 1140 | CLA | CHC-C1C | 2.54 | 1.41 | 1.35 |
| 21 | 2 | 1235 | CLA | CHC-C1C | 2.54 | 1.41 | 1.35 |
| 21 | A | 1136 | CLA | MG-NC | 2.54 | 2.12 | 2.06 |
| 21 | a | 1102 | CLA | C1C-C2C | 2.54 | 1.49 | 1.44 |
| 21 | 2 | 1202 | CLA | CHC-C1C | 2.54 | 1.41 | 1.35 |
| 21 | b | 1234 | CLA | CHC-C1C | 2.54 | 1.41 | 1.35 |
| 21 | A | 1115 | CLA | C1C-C2C | 2.54 | 1.49 | 1.44 |
| 21 | a | 1133 | CLA | CHC-C1C | 2.54 | 1.41 | 1.35 |
| 21 | A | 1116 | CLA | CHC-C1C | 2.54 | 1.41 | 1.35 |
| 21 | A | 1109 | CLA | C1C-C2C | 2.54 | 1.49 | 1.44 |
| 21 | j | 1303 | CLA | MG-NC | 2.54 | 2.12 | 2.06 |
| 36 | I | 4020 | EQ3 | C28-C27 | 2.53 | 1.54 | 1.50 |
| 21 | B | 1203 | CLA | MG-NC | 2.53 | 2.12 | 2.06 |
| 21 | B | 1021 | CLA | CHC-C1C | 2.53 | 1.41 | 1.35 |
| 21 | b | 1218 | CLA | CHC-C1C | 2.53 | 1.41 | 1.35 |
| 21 | a | 1132 | CLA | CHC-C1C | 2.53 | 1.41 | 1.35 |
| 21 | 2 | 1214 | CLA | CHC-C1C | 2.53 | 1.41 | 1.35 |
| 21 | a | 1136 | CLA | C3B-C2B | -2.53 | 1.36 | 1.40 |
| 21 | 7 | 1303 | CLA | C1C-C2C | 2.53 | 1.49 | 1.44 |
| 21 | b | 1220 | CLA | C1C-NC | -2.53 | 1.34 | 1.37 |
| 21 | A | 1102 | CLA | CHC-C1C | 2.53 | 1.41 | 1.35 |
| 21 | 2 | 1022 | CLA | CHC-C1C | 2.53 | 1.41 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | 1 | 1117 | CLA | C1C-C2C | 2.53 | 1.49 | 1.44 |
| 21 | b | 1213 | CLA | CHC-C1C | 2.53 | 1.41 | 1.35 |
| 21 | b | 1230 | CLA | CHC-C1C | 2.53 | 1.41 | 1.35 |
| 21 | 2 | 1204 | CLA | C1C-NC | -2.53 | 1.34 | 1.37 |
| 21 | J | 1302 | CLA | C1C-NC | -2.53 | 1.34 | 1.37 |
| 21 | A | 1111 | CLA | CHC-C1C | 2.53 | 1.41 | 1.35 |
| 21 | a | 1119 | CLA | CHC-C1C | 2.53 | 1.41 | 1.35 |
| 21 | 1 | 1120 | CLA | CHC-C1C | 2.53 | 1.41 | 1.35 |
| 21 | b | 1208 | CLA | CHC-C1C | 2.53 | 1.41 | 1.35 |
| 21 | a | 1105 | CLA | C3B-C2B | -2.53 | 1.36 | 1.40 |
| 21 | 1 | 1123 | CLA | C1C-C2C | 2.53 | 1.49 | 1.44 |
| 21 | B | 1202 | CLA | CHC-C1C | 2.52 | 1.41 | 1.35 |
| 21 | a | 1113 | CLA | CHC-C1C | 2.52 | 1.41 | 1.35 |
| 21 | a | 1107 | CLA | C1C-NC | -2.52 | 1.34 | 1.37 |
| 21 | a | 1138 | CLA | CHC-C1C | 2.52 | 1.41 | 1.35 |
| 21 | 8 | 1401 | CLA | MG-NC | 2.52 | 2.12 | 2.06 |
| 21 | 2 | 1204 | CLA | CHC-C1C | 2.52 | 1.41 | 1.35 |
| 21 | a | 1125 | CLA | C1C-NC | -2.52 | 1.34 | 1.37 |
| 21 | b | 1236 | CLA | C1C-C2C | 2.52 | 1.49 | 1.44 |
| 21 | A | 1012 | CLA | CHC-C1C | 2.52 | 1.41 | 1.35 |
| 21 | A | 1138 | CLA | C1C-C2C | 2.52 | 1.49 | 1.44 |
| 21 | A | 1131 | CLA | CHC-C1C | 2.52 | 1.41 | 1.35 |
| 21 | B | 1223 | CLA | CHC-C1C | 2.52 | 1.41 | 1.35 |
| 21 | B | 1231 | CLA | CHC-C1C | 2.52 | 1.41 | 1.35 |
| 21 | 1 | 1119 | CLA | CHC-C1C | 2.52 | 1.41 | 1.35 |
| 21 | 1 | 1115 | CLA | CHC-C1C | 2.52 | 1.41 | 1.35 |
| 21 | 1 | 1105 | CLA | C3B-C2B | -2.52 | 1.36 | 1.40 |
| 21 | b | 1205 | CLA | C1C-C2C | 2.52 | 1.49 | 1.44 |
| 21 | J | 1303 | CLA | CHC-C1C | 2.52 | 1.41 | 1.35 |
| 21 | a | 1140 | CLA | CHC-C1C | 2.52 | 1.41 | 1.35 |
| 21 | a | 1801 | CLA | MG-NC | 2.52 | 2.12 | 2.06 |
| 21 | b | 1220 | CLA | CHC-C1C | 2.52 | 1.41 | 1.35 |
| 21 | A | 1124 | CLA | C1C-C2C | 2.52 | 1.49 | 1.44 |
| 34 | j | 4015 | ZEX | C27-C26 | 2.51 | 1.48 | 1.46 |
| 21 | 1 | 1113 | CLA | CHC-C1C | 2.51 | 1.41 | 1.35 |
| 21 | A | 1012 | CLA | MG-NC | 2.51 | 2.12 | 2.06 |
| 21 | 2 | 1239 | CLA | C1C-NC | -2.51 | 1.34 | 1.37 |
| 21 | A | 1115 | CLA | CHC-C1C | 2.51 | 1.41 | 1.35 |
| 21 | B | 1204 | CLA | CHC-C1C | 2.51 | 1.41 | 1.35 |
| 21 | 2 | 1214 | CLA | MG-NC | 2.51 | 2.12 | 2.06 |
| 21 | A | 1139 | CLA | CHC-C1C | 2.51 | 1.41 | 1.35 |
| 21 | 1 | 1103 | CLA | C1C-NC | -2.51 | 1.34 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | 2 | 1237 | CLA | CHC-C1C | 2.51 | 1.41 | 1.35 |
| 21 | 1 | 1127 | CLA | MG-NC | 2.51 | 2.12 | 2.06 |
| 21 | B | 1201 | CLA | CHC-C1C | 2.51 | 1.41 | 1.35 |
| 21 | a | 1128 | CLA | CHC-C1C | 2.51 | 1.41 | 1.35 |
| 21 | B | 1213 | CLA | CHC-C1C | 2.51 | 1.41 | 1.35 |
| 21 | a | 1137 | CLA | CHC-C1C | 2.51 | 1.41 | 1.35 |
| 21 | 2 | 1208 | CLA | C3B-C2B | -2.51 | 1.36 | 1.40 |
| 21 | 1 | 1114 | CLA | CHC-C1C | 2.51 | 1.41 | 1.35 |
| 21 | 2 | 1232 | CLA | CHC-C1C | 2.51 | 1.41 | 1.35 |
| 21 | A | 1103 | CLA | C1C-NC | -2.51 | 1.34 | 1.37 |
| 21 | 8 | 1401 | CLA | CHC-C1C | 2.51 | 1.41 | 1.35 |
| 21 | 1 | 1106 | CLA | CHC-C1C | 2.51 | 1.41 | 1.35 |
| 21 | a | 1114 | CLA | MG-NC | 2.51 | 2.12 | 2.06 |
| 21 | A | 1114 | CLA | CHC-C1C | 2.51 | 1.41 | 1.35 |
| 21 | B | 1235 | CLA | CHC-C1C | 2.51 | 1.41 | 1.35 |
| 21 | b | 1210 | CLA | MG-NC | 2.51 | 2.12 | 2.06 |
| 21 | b | 1207 | CLA | CHC-C1C | 2.51 | 1.41 | 1.35 |
| 21 | 2 | 1211 | CLA | CHC-C1C | 2.51 | 1.41 | 1.35 |
| 21 | a | 1012 | CLA | C1C-NC | -2.51 | 1.34 | 1.37 |
| 21 | a | 1130 | CLA | CHC-C1C | 2.51 | 1.41 | 1.35 |
| 21 | A | 1122 | CLA | C1C-C2C | 2.50 | 1.49 | 1.44 |
| 21 | a | 1136 | CLA | CHC-C1C | 2.50 | 1.41 | 1.35 |
| 21 | 1 | 1116 | CLA | C3B-C2B | -2.50 | 1.36 | 1.40 |
| 21 | 1 | 1109 | CLA | CHC-C1C | 2.50 | 1.41 | 1.35 |
| 21 | 1 | 1122 | CLA | C1C-NC | -2.50 | 1.34 | 1.37 |
| 21 | J | 1303 | CLA | MG-NC | 2.50 | 2.12 | 2.06 |
| 21 | a | 1111 | CLA | C1C-NC | -2.50 | 1.34 | 1.37 |
| 21 | B | 1203 | CLA | C1C-C2C | 2.50 | 1.49 | 1.44 |
| 21 | B | 1219 | CLA | C1C-NC | -2.50 | 1.34 | 1.37 |
| 21 | 2 | 1240 | CLA | MG-NC | 2.50 | 2.12 | 2.06 |
| 21 | 1 | 1117 | CLA | CHC-C1C | 2.50 | 1.41 | 1.35 |
| 21 | 1 | 1133 | CLA | CHC-C1C | 2.50 | 1.41 | 1.35 |
| 21 | b | 1212 | CLA | C1C-NC | -2.50 | 1.34 | 1.37 |
| 21 | 1 | 1110 | CLA | CHC-C1C | 2.50 | 1.41 | 1.35 |
| 21 | A | 1129 | CLA | MG-NC | 2.50 | 2.12 | 2.06 |
| 21 | A | 1122 | CLA | CHC-C1C | 2.50 | 1.41 | 1.35 |
| 21 | k | 1401 | CLA | MG-NC | 2.50 | 2.12 | 2.06 |
| 21 | 1 | 1130 | CLA | CHC-C1C | 2.50 | 1.41 | 1.35 |
| 21 | 1 | 1139 | CLA | CHC-C1C | 2.50 | 1.41 | 1.35 |
| 21 | B | 1220 | CLA | C1C-NC | -2.50 | 1.34 | 1.37 |
| 21 | a | 1115 | CLA | CHC-C1C | 2.50 | 1.41 | 1.35 |
| 21 | a | 1106 | CLA | CHC-C1C | 2.50 | 1.41 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | 1 | 1108 | CLA | CHC-C1C | 2.50 | 1.41 | 1.35 |
| 21 | 2 | 1231 | CLA | CHC-C1C | 2.50 | 1.41 | 1.35 |
| 21 | a | 1139 | CLA | C3B-C2B | -2.49 | 1.36 | 1.40 |
| 21 | k | 1402 | CLA | C3B-C2B | -2.49 | 1.36 | 1.40 |
| 21 | A | 1112 | CLA | MG-NC | 2.49 | 2.12 | 2.06 |
| 21 | B | 1217 | CLA | CHC-C1C | 2.49 | 1.41 | 1.35 |
| 21 | A | 1107 | CLA | CHC-C1C | 2.49 | 1.41 | 1.35 |
| 21 | 2 | 1226 | CLA | C1C-C2C | 2.49 | 1.49 | 1.44 |
| 21 | B | 1239 | CLA | CHC-C1C | 2.49 | 1.41 | 1.35 |
| 21 | 1 | 1118 | CLA | C1C-NC | -2.49 | 1.34 | 1.37 |
| 21 | A | 1105 | CLA | CHC-C1C | 2.49 | 1.41 | 1.35 |
| 21 | f | 1301 | CLA | MG-NC | 2.49 | 2.12 | 2.06 |
| 21 | 1 | 1121 | CLA | MG-NC | 2.49 | 2.12 | 2.06 |
| 21 | 2 | 1239 | CLA | C1C-C2C | 2.49 | 1.49 | 1.44 |
| 21 | 2 | 1220 | CLA | MG-NC | 2.49 | 2.12 | 2.06 |
| 21 | A | 1122 | CLA | C1C-NC | -2.49 | 1.34 | 1.37 |
| 21 | a | 1102 | CLA | CHC-C1C | 2.49 | 1.41 | 1.35 |
| 21 | b | 1217 | CLA | MG-NC | 2.49 | 2.12 | 2.06 |
| 21 | L | 1503 | CLA | CHC-C1C | 2.49 | 1.41 | 1.35 |
| 21 | b | 1238 | CLA | MG-NC | 2.49 | 2.12 | 2.06 |
| 21 | 2 | 1228 | CLA | CHC-C1C | 2.49 | 1.41 | 1.35 |
| 21 | B | 1227 | CLA | C1C-NC | -2.49 | 1.34 | 1.37 |
| 21 | 1 | 1113 | CLA | MG-NC | 2.49 | 2.12 | 2.06 |
| 21 | 1 | 1102 | CLA | C1C-C2C | 2.49 | 1.49 | 1.44 |
| 21 | a | 1109 | CLA | CHC-C1C | 2.49 | 1.41 | 1.35 |
| 21 | A | 1121 | CLA | C1C-C2C | 2.49 | 1.49 | 1.44 |
| 21 | F | 1302 | CLA | MG-NC | 2.48 | 2.12 | 2.06 |
| 22 | B | 2002 | PQN | C9-C10 | -2.48 | 1.35 | 1.39 |
| 30 | i | 4020 | ECH | C1-C6 | -2.48 | 1.50 | 1.53 |
| 21 | a | 1107 | CLA | CHC-C1C | 2.48 | 1.41 | 1.35 |
| 21 | B | 1232 | CLA | C1C-NC | -2.48 | 1.34 | 1.37 |
| 21 | a | 1104 | CLA | CHC-C1C | 2.48 | 1.41 | 1.35 |
| 21 | b | 1224 | CLA | MG-NC | 2.48 | 2.12 | 2.06 |
| 21 | b | 1238 | CLA | C1C-C2C | 2.48 | 1.49 | 1.44 |
| 21 | A | 1134 | CLA | CHC-C1C | 2.48 | 1.41 | 1.35 |
| 21 | B | 1221 | CLA | CHC-C1C | 2.48 | 1.41 | 1.35 |
| 21 | b | 1237 | CLA | C1C-C2C | 2.48 | 1.49 | 1.44 |
| 21 | a | 1111 | CLA | CHC-C1C | 2.48 | 1.41 | 1.35 |
| 21 | 2 | 1220 | CLA | CHC-C1C | 2.48 | 1.41 | 1.35 |
| 21 | 0 | 1503 | CLA | CHC-C1C | 2.48 | 1.41 | 1.35 |
| 21 | b | 1217 | CLA | CHC-C1C | 2.48 | 1.41 | 1.35 |
| 21 | A | 1116 | CLA | C1C-NC | -2.48 | 1.34 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | 2 | 1228 | CLA | C1C-NC | -2.48 | 1.34 | 1.37 |
| 21 | B | 1208 | CLA | CHC-C1C | 2.48 | 1.41 | 1.35 |
| 21 | b | 1209 | CLA | CHC-C1C | 2.48 | 1.41 | 1.35 |
| 21 | b | 1227 | CLA | CHC-C1C | 2.48 | 1.41 | 1.35 |
| 21 | A | 1111 | CLA | C1C-NC | -2.48 | 1.34 | 1.37 |
| 21 | 1 | 1112 | CLA | MG-NC | 2.48 | 2.12 | 2.06 |
| 21 | 1 | 1137 | CLA | C3B-C2B | -2.48 | 1.36 | 1.40 |
| 21 | j | 1302 | CLA | CHC-C1C | 2.48 | 1.41 | 1.35 |
| 21 | 2 | 1021 | CLA | CHC-C1C | 2.48 | 1.41 | 1.35 |
| 21 | 0 | 1502 | CLA | C1C-NC | -2.48 | 1.34 | 1.37 |
| 21 | a | 1112 | CLA | CHC-C1C | 2.47 | 1.41 | 1.35 |
| 21 | 2 | 1209 | CLA | MG-NC | 2.47 | 2.12 | 2.06 |
| 21 | 2 | 1226 | CLA | CHC-C1C | 2.47 | 1.41 | 1.35 |
| 21 | B | 1222 | CLA | C1C-NC | -2.47 | 1.34 | 1.37 |
| 21 | 1 | 1119 | CLA | C1C-NC | -2.47 | 1.34 | 1.37 |
| 21 | b | 1221 | CLA | MG-NC | 2.47 | 2.12 | 2.06 |
| 21 | a | 1135 | CLA | CHC-C1C | 2.47 | 1.41 | 1.35 |
| 21 | A | 1106 | CLA | CHC-C1C | 2.47 | 1.41 | 1.35 |
| 21 | A | 1113 | CLA | MG-NC | 2.47 | 2.12 | 2.06 |
| 21 | 1 | 1136 | CLA | MG-NC | 2.47 | 2.12 | 2.06 |
| 21 | 6 | 1301 | CLA | CHC-C1C | 2.47 | 1.41 | 1.35 |
| 21 | B | 1230 | CLA | C1C-NC | -2.47 | 1.34 | 1.37 |
| 21 | A | 1135 | CLA | C1C-C2C | 2.47 | 1.49 | 1.44 |
| 21 | 1 | 1120 | CLA | MG-NC | 2.47 | 2.12 | 2.06 |
| 21 | b | 1223 | CLA | CHC-C1C | 2.47 | 1.41 | 1.35 |
| 21 | B | 1236 | CLA | C1C-NC | -2.47 | 1.34 | 1.37 |
| 21 | 1 | 1105 | CLA | MG-NC | 2.47 | 2.12 | 2.06 |
| 21 | b | 1232 | CLA | MG-NC | 2.47 | 2.12 | 2.06 |
| 21 | 1 | 1501 | CLA | MG-NC | 2.47 | 2.12 | 2.06 |
| 21 | 2 | 1205 | CLA | C3B-C2B | -2.47 | 1.36 | 1.40 |
| 21 | 1 | 1133 | CLA | C1C-NC | -2.47 | 1.34 | 1.37 |
| 21 | b | 1240 | CLA | CHC-C1C | 2.47 | 1.41 | 1.35 |
| 21 | 1 | 1104 | CLA | CHC-C1C | 2.46 | 1.41 | 1.35 |
| 21 | A | 1140 | CLA | C3B-C2B | -2.46 | 1.36 | 1.40 |
| 21 | b | 1236 | CLA | C1C-NC | -2.46 | 1.34 | 1.37 |
| 21 | a | 1120 | CLA | MG-NC | 2.46 | 2.12 | 2.06 |
| 21 | L | 1501 | CLA | CHC-C1C | 2.46 | 1.41 | 1.35 |
| 21 | a | 1102 | CLA | MG-NC | 2.46 | 2.12 | 2.06 |
| 21 | B | 1219 | CLA | CHC-C1C | 2.46 | 1.41 | 1.35 |
| 21 | 1 | 1140 | CLA | MG-NC | 2.46 | 2.12 | 2.06 |
| 21 | 2 | 1223 | CLA | CHC-C1C | 2.46 | 1.41 | 1.35 |
| 21 | 2 | 1209 | CLA | CHC-C1C | 2.46 | 1.41 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | a | 1801 | CLA | CHC-C1C | 2.46 | 1.41 | 1.35 |
| 21 | a | 1012 | CLA | CHC-C1C | 2.46 | 1.41 | 1.35 |
| 21 | 2 | 1224 | CLA | CHC-C1C | 2.46 | 1.41 | 1.35 |
| 21 | 1 | 1112 | CLA | C3B-C2B | -2.46 | 1.37 | 1.40 |
| 21 | A | 1125 | CLA | CHC-C1C | 2.46 | 1.41 | 1.35 |
| 21 | B | 1223 | CLA | C1C-NC | -2.46 | 1.34 | 1.37 |
| 21 | B | 1205 | CLA | MG-NC | 2.46 | 2.12 | 2.06 |
| 21 | A | 1132 | CLA | MG-NC | 2.46 | 2.12 | 2.06 |
| 21 | B | 1234 | CLA | MG-NC | 2.46 | 2.12 | 2.06 |
| 21 | K | 1401 | CLA | CHC-C1C | 2.46 | 1.41 | 1.35 |
| 21 | A | 1138 | CLA | C1C-NC | -2.46 | 1.34 | 1.37 |
| 21 | 0 | 1503 | CLA | C1C-NC | -2.46 | 1.34 | 1.37 |
| 21 | 1 | 1109 | CLA | MG-NC | 2.46 | 2.12 | 2.06 |
| 21 | L | 1502 | CLA | CHC-C1C | 2.46 | 1.41 | 1.35 |
| 21 | B | 1218 | CLA | C1C-NC | -2.46 | 1.34 | 1.37 |
| 21 | b | 1238 | CLA | C1C-NC | -2.46 | 1.34 | 1.37 |
| 21 | B | 1215 | CLA | CHC-C1C | 2.46 | 1.41 | 1.35 |
| 21 | 2 | 1210 | CLA | MG-NC | 2.46 | 2.12 | 2.06 |
| 21 | a | 1109 | CLA | C1C-C2C | 2.46 | 1.49 | 1.44 |
| 21 | A | 1112 | CLA | CHC-C1C | 2.46 | 1.41 | 1.35 |
| 21 | F | 1301 | CLA | CHC-C1C | 2.45 | 1.41 | 1.35 |
| 21 | 1 | 1118 | CLA | CHC-C1C | 2.45 | 1.41 | 1.35 |
| 21 | a | 1135 | CLA | MG-NC | 2.45 | 2.12 | 2.06 |
| 21 | a | 1130 | CLA | C1C-NC | -2.45 | 1.34 | 1.37 |
| 21 | b | 1023 | CLA | C1C-NC | -2.45 | 1.34 | 1.37 |
| 21 | A | 1123 | CLA | MG-NC | 2.45 | 2.12 | 2.06 |
| 21 | a | 1134 | CLA | C3B-C2B | -2.45 | 1.37 | 1.40 |
| 21 | B | 1217 | CLA | MG-NC | 2.45 | 2.12 | 2.06 |
| 21 | 1 | 1101 | CLA | C1C-NC | -2.45 | 1.34 | 1.37 |
| 21 | 2 | 1230 | CLA | MG-NC | 2.45 | 2.12 | 2.06 |
| 21 | a | 1105 | CLA | MG-NC | 2.45 | 2.12 | 2.06 |
| 36 | I | 4020 | EQ3 | C21-C22 | -2.45 | 1.32 | 1.35 |
| 21 | b | 1228 | CLA | CHC-C1C | 2.45 | 1.41 | 1.35 |
| 21 | f | 1302 | CLA | CHC-C1C | 2.45 | 1.41 | 1.35 |
| 21 | a | 1132 | CLA | MG-NC | 2.45 | 2.12 | 2.06 |
| 21 | 2 | 1221 | CLA | CHC-C1C | 2.45 | 1.41 | 1.35 |
| 21 | 2 | 1219 | CLA | MG-NC | 2.45 | 2.12 | 2.06 |
| 21 | a | 1124 | CLA | CHC-C1C | 2.45 | 1.41 | 1.35 |
| 21 | a | 1111 | CLA | MG-NC | 2.45 | 2.12 | 2.06 |
| 21 | b | 1225 | CLA | CHC-C1C | 2.45 | 1.41 | 1.35 |
| 21 | b | 1216 | CLA | C1C-NC | -2.45 | 1.34 | 1.37 |
| 21 | 2 | 1217 | CLA | CHC-C1C | 2.45 | 1.41 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | a | 1140 | CLA | C1C-NC | -2.45 | 1.34 | 1.37 |
| 21 | 2 | 1207 | CLA | C1C-NC | -2.45 | 1.34 | 1.37 |
| 21 | 2 | 1219 | CLA | CHC-C1C | 2.45 | 1.41 | 1.35 |
| 21 | b | 1206 | CLA | C1C-C2C | 2.44 | 1.49 | 1.44 |
| 21 | L | 1501 | CLA | C1C-NC | -2.44 | 1.34 | 1.37 |
| 21 | 1 | 1124 | CLA | CHC-C1C | 2.44 | 1.41 | 1.35 |
| 21 | b | 1237 | CLA | C1C-NC | -2.44 | 1.34 | 1.37 |
| 21 | a | 1138 | CLA | MG-NC | 2.44 | 2.12 | 2.06 |
| 21 | 1 | 1116 | CLA | MG-NC | 2.44 | 2.12 | 2.06 |
| 21 | a | 1139 | CLA | MG-NC | 2.44 | 2.12 | 2.06 |
| 21 | A | 1106 | CLA | C1C-NC | -2.44 | 1.34 | 1.37 |
| 21 | a | 1115 | CLA | C1C-NC | -2.44 | 1.34 | 1.37 |
| 21 | A | 1108 | CLA | C1C-NC | -2.44 | 1.34 | 1.37 |
| 21 | 6 | 1301 | CLA | MG-NC | 2.44 | 2.12 | 2.06 |
| 21 | 2 | 1230 | CLA | CHC-C1C | 2.44 | 1.41 | 1.35 |
| 21 | A | 1124 | CLA | MG-NC | 2.44 | 2.12 | 2.06 |
| 21 | L | 1503 | CLA | MG-NC | 2.44 | 2.12 | 2.06 |
| 21 | a | 1113 | CLA | MG-NC | 2.44 | 2.12 | 2.06 |
| 21 | B | 1209 | CLA | MG-NC | 2.44 | 2.12 | 2.06 |
| 21 | b | 1207 | CLA | C1C-NC | -2.44 | 1.34 | 1.37 |
| 21 | a | 1112 | CLA | C1C-NC | -2.44 | 1.34 | 1.37 |
| 21 | a | 1137 | CLA | C1C-NC | -2.44 | 1.34 | 1.37 |
| 21 | a | 1121 | CLA | MG-NC | 2.44 | 2.12 | 2.06 |
| 21 | 1 | 1101 | CLA | CHC-C1C | 2.44 | 1.41 | 1.35 |
| 21 | 1 | 1124 | CLA | MG-NC | 2.44 | 2.12 | 2.06 |
| 21 | A | 1103 | CLA | CHC-C1C | 2.44 | 1.41 | 1.35 |
| 21 | 2 | 1220 | CLA | C1C-NC | -2.43 | 1.34 | 1.37 |
| 21 | 2 | 1230 | CLA | C1C-NC | -2.43 | 1.34 | 1.37 |
| 21 | L | 1501 | CLA | MG-NC | 2.43 | 2.12 | 2.06 |
| 21 | B | 1238 | CLA | C3B-C2B | -2.43 | 1.37 | 1.40 |
| 21 | 2 | 1223 | CLA | C1C-NC | -2.43 | 1.34 | 1.37 |
| 21 | B | 1224 | CLA | CHC-C1C | 2.43 | 1.41 | 1.35 |
| 21 | a | 1122 | CLA | CHC-C1C | 2.43 | 1.41 | 1.35 |
| 21 | B | 1213 | CLA | MG-NC | 2.43 | 2.12 | 2.06 |
| 21 | 2 | 1211 | CLA | MG-NC | 2.43 | 2.12 | 2.06 |
| 21 | 1 | 1125 | CLA | MG-NC | 2.43 | 2.12 | 2.06 |
| 21 | 1 | 1127 | CLA | C1C-NC | -2.43 | 1.34 | 1.37 |
| 21 | A | 1128 | CLA | C1C-C2C | 2.43 | 1.49 | 1.44 |
| 21 | 1 | 1112 | CLA | CHC-C1C | 2.43 | 1.41 | 1.35 |
| 21 | a | 1112 | CLA | MG-NC | 2.43 | 2.12 | 2.06 |
| 21 | A | 1123 | CLA | C1C-C2C | 2.43 | 1.49 | 1.44 |
| 21 | f | 1302 | CLA | MG-NC | 2.43 | 2.12 | 2.06 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | a | 1120 | CLA | C1C-NC | -2.43 | 1.34 | 1.37 |
| 21 | 2 | 1208 | CLA | C1C-NC | -2.43 | 1.34 | 1.37 |
| 21 | 2 | 1227 | CLA | C1C-NC | -2.43 | 1.34 | 1.37 |
| 21 | b | 1205 | CLA | MG-NC | 2.43 | 2.12 | 2.06 |
| 21 | A | 1127 | CLA | MG-NC | 2.43 | 2.12 | 2.06 |
| 21 | A | 1121 | CLA | C1C-NC | -2.43 | 1.34 | 1.37 |
| 21 | F | 1302 | CLA | CHC-C1C | 2.43 | 1.41 | 1.35 |
| 21 | b | 1204 | CLA | CHC-C1C | 2.43 | 1.41 | 1.35 |
| 21 | 2 | 1206 | CLA | CHC-C1C | 2.43 | 1.41 | 1.35 |
| 21 | 1 | 1135 | CLA | CHC-C1C | 2.42 | 1.41 | 1.35 |
| 21 | B | 1204 | CLA | C1C-NC | -2.42 | 1.34 | 1.37 |
| 21 | 1 | 1115 | CLA | C3B-C2B | -2.42 | 1.37 | 1.40 |
| 21 | a | 1126 | CLA | C1C-NC | -2.42 | 1.34 | 1.37 |
| 21 | b | 1218 | CLA | MG-NC | 2.42 | 2.12 | 2.06 |
| 28 | B | 4011 | 45D | C17-C15 | 2.42 | 1.52 | 1.47 |
| 21 | B | 1221 | CLA | MG-NC | 2.42 | 2.12 | 2.06 |
| 21 | b | 1202 | CLA | C1C-NC | -2.42 | 1.34 | 1.37 |
| 21 | B | 1230 | CLA | C3B-C2B | -2.42 | 1.37 | 1.40 |
| 21 | a | 1115 | CLA | C3B-C2B | -2.42 | 1.37 | 1.40 |
| 21 | B | 1209 | CLA | C1C-NC | -2.42 | 1.34 | 1.37 |
| 21 | b | 1214 | CLA | MG-NC | 2.42 | 2.12 | 2.06 |
| 21 | K | 1401 | CLA | C1C-NC | -2.42 | 1.34 | 1.37 |
| 21 | a | 1101 | CLA | C3B-C2B | -2.42 | 1.37 | 1.40 |
| 21 | B | 1022 | CLA | MG-NC | 2.42 | 2.12 | 2.06 |
| 21 | a | 1123 | CLA | CHC-C1C | 2.42 | 1.41 | 1.35 |
| 21 | B | 1229 | CLA | C1C-NC | -2.42 | 1.34 | 1.37 |
| 21 | B | 1218 | CLA | CHC-C1C | 2.42 | 1.41 | 1.35 |
| 21 | b | 1219 | CLA | MG-NC | 2.42 | 2.12 | 2.06 |
| 21 | 2 | 1236 | CLA | C1C-NC | -2.42 | 1.34 | 1.37 |
| 21 | A | 1131 | CLA | C1C-NC | -2.42 | 1.34 | 1.37 |
| 21 | a | 1103 | CLA | C1C-NC | -2.42 | 1.34 | 1.37 |
| 21 | A | 1116 | CLA | C3B-C2B | -2.42 | 1.37 | 1.40 |
| 21 | 2 | 1240 | CLA | C3B-C2B | -2.42 | 1.37 | 1.40 |
| 21 | 1 | 1111 | CLA | MG-NC | 2.42 | 2.12 | 2.06 |
| 22 | B | 2002 | PQN | C10-C5 | -2.42 | 1.36 | 1.40 |
| 28 | h | 4020 | 45D | C18-C16 | 2.42 | 1.52 | 1.47 |
| 21 | 1 | 1102 | CLA | CHC-C1C | 2.42 | 1.41 | 1.35 |
| 21 | A | 1107 | CLA | MG-NC | 2.42 | 2.12 | 2.06 |
| 21 | B | 1240 | CLA | C3B-C2B | -2.41 | 1.37 | 1.40 |
| 21 | A | 1139 | CLA | C1C-NC | -2.41 | 1.34 | 1.37 |
| 21 | a | 1127 | CLA | C1C-NC | -2.41 | 1.34 | 1.37 |
| 21 | 7 | 1303 | CLA | C1C-NC | -2.41 | 1.34 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | 1 | 1138 | CLA | MG-NC | 2.41 | 2.12 | 2.06 |
| 21 | B | 1203 | CLA | CHC-C1C | 2.41 | 1.41 | 1.35 |
| 21 | J | 1302 | CLA | MG-NC | 2.41 | 2.12 | 2.06 |
| 21 | 8 | 1402 | CLA | MG-NC | 2.41 | 2.12 | 2.06 |
| 21 | a | 1108 | CLA | MG-NC | 2.41 | 2.12 | 2.06 |
| 21 | 1 | 1122 | CLA | CHC-C1C | 2.41 | 1.41 | 1.35 |
| 21 | B | 1214 | CLA | MG-NC | 2.41 | 2.12 | 2.06 |
| 21 | 1 | 1117 | CLA | C1C-NC | -2.41 | 1.34 | 1.37 |
| 21 | b | 1237 | CLA | MG-NC | 2.41 | 2.12 | 2.06 |
| 21 | b | 1203 | CLA | CHC-C1C | 2.41 | 1.41 | 1.35 |
| 21 | f | 1302 | CLA | C1C-NC | -2.41 | 1.34 | 1.37 |
| 21 | B | 1210 | CLA | CHC-C1C | 2.41 | 1.41 | 1.35 |
| 21 | 2 | 1207 | CLA | CHC-C1C | 2.41 | 1.41 | 1.35 |
| 21 | A | 1011 | CLA | C1C-NC | -2.41 | 1.34 | 1.37 |
| 21 | a | 1130 | CLA | MG-NC | 2.41 | 2.12 | 2.06 |
| 21 | 1 | 1114 | CLA | MG-NC | 2.41 | 2.12 | 2.06 |
| 21 | B | 1216 | CLA | MG-NC | 2.41 | 2.12 | 2.06 |
| 21 | b | 1203 | CLA | MG-NC | 2.41 | 2.12 | 2.06 |
| 21 | b | 1223 | CLA | C1C-NC | -2.41 | 1.34 | 1.37 |
| 21 | b | 1223 | CLA | MG-NC | 2.41 | 2.12 | 2.06 |
| 21 | 2 | 1206 | CLA | MG-NC | 2.41 | 2.12 | 2.06 |
| 21 | b | 1236 | CLA | CHC-C1C | 2.41 | 1.41 | 1.35 |
| 21 | 1 | 1134 | CLA | C1C-NC | -2.41 | 1.34 | 1.37 |
| 21 | B | 1237 | CLA | C1C-C2C | 2.41 | 1.49 | 1.44 |
| 21 | b | 1239 | CLA | CHC-C1C | 2.41 | 1.41 | 1.35 |
| 21 | 2 | 1234 | CLA | MG-NC | 2.41 | 2.12 | 2.06 |
| 21 | a | 1103 | CLA | C1C-C2C | 2.41 | 1.49 | 1.44 |
| 21 | 0 | 1501 | CLA | MG-NC | 2.40 | 2.12 | 2.06 |
| 21 | 2 | 1236 | CLA | MG-NC | 2.40 | 2.12 | 2.06 |
| 21 | 7 | 1302 | CLA | MG-NC | 2.40 | 2.12 | 2.06 |
| 21 | j | 1302 | CLA | C1C-NC | -2.40 | 1.34 | 1.37 |
| 21 | b | 1225 | CLA | MG-NC | 2.40 | 2.12 | 2.06 |
| 21 | 1 | 1139 | CLA | MG-NC | 2.40 | 2.12 | 2.06 |
| 21 | b | 1224 | CLA | C1C-NC | -2.40 | 1.34 | 1.37 |
| 21 | A | 1115 | CLA | C1C-NC | -2.40 | 1.34 | 1.37 |
| 21 | 2 | 1216 | CLA | MG-NC | 2.40 | 2.12 | 2.06 |
| 21 | B | 1232 | CLA | CHC-C1C | 2.40 | 1.41 | 1.35 |
| 21 | a | 1137 | CLA | MG-NC | 2.40 | 2.12 | 2.06 |
| 21 | A | 1107 | CLA | C1C-NC | -2.40 | 1.34 | 1.37 |
| 21 | a | 1129 | CLA | C3B-C2B | -2.40 | 1.37 | 1.40 |
| 21 | 1 | 1115 | CLA | C1C-NC | -2.40 | 1.34 | 1.37 |
| 21 | 1 | 1011 | CLA | MG-NC | 2.40 | 2.12 | 2.06 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | 1 | 1128 | CLA | MG-NC | 2.40 | 2.12 | 2.06 |
| 21 | A | 1109 | CLA | C1C-NC | -2.39 | 1.34 | 1.37 |
| 21 | A | 1124 | CLA | C1C-NC | -2.39 | 1.34 | 1.37 |
| 21 | B | 1212 | CLA | C1C-NC | -2.39 | 1.34 | 1.37 |
| 21 | b | 1214 | CLA | C3B-C2B | -2.39 | 1.37 | 1.40 |
| 21 | 2 | 1236 | CLA | C3B-C2B | -2.39 | 1.37 | 1.40 |
| 21 | b | 1206 | CLA | CHC-C1C | 2.39 | 1.41 | 1.35 |
| 21 | A | 1135 | CLA | MG-NC | 2.39 | 2.12 | 2.06 |
| 21 | 2 | 1222 | CLA | MG-NC | 2.39 | 2.12 | 2.06 |
| 21 | 2 | 1206 | CLA | C1C-NC | -2.39 | 1.34 | 1.37 |
| 21 | 2 | 1205 | CLA | C1C-C2C | 2.39 | 1.49 | 1.44 |
| 21 | 1 | 1111 | CLA | CHC-C1C | 2.39 | 1.41 | 1.35 |
| 21 | b | 1206 | CLA | MG-NC | 2.39 | 2.11 | 2.06 |
| 21 | A | 1105 | CLA | C1C-NC | -2.39 | 1.34 | 1.37 |
| 21 | B | 1023 | CLA | C1C-NC | -2.39 | 1.34 | 1.37 |
| 21 | a | 1122 | CLA | MG-NC | 2.39 | 2.11 | 2.06 |
| 21 | 1 | 1108 | CLA | C1C-NC | -2.39 | 1.34 | 1.37 |
| 21 | B | 1201 | CLA | C1C-C2C | 2.39 | 1.49 | 1.44 |
| 21 | b | 1237 | CLA | CHC-C1C | 2.39 | 1.41 | 1.35 |
| 21 | B | 1222 | CLA | CHC-C1C | 2.39 | 1.41 | 1.35 |
| 21 | a | 1102 | CLA | C1C-NC | -2.39 | 1.34 | 1.37 |
| 21 | 2 | 1219 | CLA | C1C-NC | -2.39 | 1.34 | 1.37 |
| 21 | b | 1205 | CLA | CHC-C1C | 2.39 | 1.41 | 1.35 |
| 21 | 2 | 1223 | CLA | MG-NC | 2.39 | 2.11 | 2.06 |
| 21 | K | 1402 | CLA | MG-NC | 2.39 | 2.11 | 2.06 |
| 21 | B | 1226 | CLA | C1C-NC | -2.39 | 1.34 | 1.37 |
| 21 | 2 | 1022 | CLA | MG-NC | 2.39 | 2.11 | 2.06 |
| 21 | B | 1215 | CLA | MG-NC | 2.39 | 2.11 | 2.06 |
| 21 | b | 1209 | CLA | C1C-NC | -2.38 | 1.34 | 1.37 |
| 21 | 1 | 1138 | CLA | C1C-NC | -2.38 | 1.34 | 1.37 |
| 21 | B | 1209 | CLA | CHC-C1C | 2.38 | 1.41 | 1.35 |
| 21 | 1 | 1501 | CLA | CHC-C1C | 2.38 | 1.41 | 1.35 |
| 21 | 2 | 1224 | CLA | MG-NC | 2.38 | 2.11 | 2.06 |
| 21 | 2 | 1231 | CLA | C1C-NC | -2.38 | 1.34 | 1.37 |
| 21 | 1 | 1012 | CLA | MG-NC | 2.38 | 2.11 | 2.06 |
| 21 | a | 1122 | CLA | C1C-NC | -2.38 | 1.34 | 1.37 |
| 21 | K | 1401 | CLA | MG-NC | 2.38 | 2.11 | 2.06 |
| 21 | 1 | 1139 | CLA | C3B-C2B | -2.38 | 1.37 | 1.40 |
| 21 | A | 1114 | CLA | MG-NC | 2.38 | 2.11 | 2.06 |
| 21 | 2 | 1218 | CLA | MG-NC | 2.38 | 2.11 | 2.06 |
| 21 | B | 1214 | CLA | CHC-C1C | 2.38 | 1.41 | 1.35 |
| 21 | 2 | 1022 | CLA | C1C-NC | -2.38 | 1.34 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | 1 | 1108 | CLA | MG-NC | 2.38 | 2.11 | 2.06 |
| 21 | b | 1228 | CLA | MG-NC | 2.38 | 2.11 | 2.06 |
| 21 | L | 1502 | CLA | MG-NC | 2.38 | 2.11 | 2.06 |
| 21 | 1 | 1107 | CLA | MG-NC | 2.38 | 2.11 | 2.06 |
| 21 | j | 1302 | CLA | MG-NC | 2.38 | 2.11 | 2.06 |
| 21 | a | 1136 | CLA | C1C-NC | -2.38 | 1.34 | 1.37 |
| 21 | f | 1302 | CLA | C3B-C2B | -2.38 | 1.37 | 1.40 |
| 21 | 2 | 1202 | CLA | C1C-NC | -2.38 | 1.34 | 1.37 |
| 21 | b | 1221 | CLA | CHC-C1C | 2.38 | 1.41 | 1.35 |
| 21 | a | 1801 | CLA | C1C-NC | -2.38 | 1.34 | 1.37 |
| 21 | a | 1117 | CLA | C1C-NC | -2.38 | 1.34 | 1.37 |
| 21 | 2 | 1209 | CLA | C1C-NC | -2.38 | 1.34 | 1.37 |
| 21 | a | 1105 | CLA | CHC-C1C | 2.38 | 1.41 | 1.35 |
| 21 | 1 | 1123 | CLA | CHC-C1C | 2.38 | 1.41 | 1.35 |
| 21 | A | 1128 | CLA | MG-NC | 2.38 | 2.11 | 2.06 |
| 21 | 1 | 1103 | CLA | CHC-C1C | 2.38 | 1.41 | 1.35 |
| 21 | a | 1128 | CLA | C1C-NC | -2.38 | 1.34 | 1.37 |
| 21 | A | 1105 | CLA | MG-NC | 2.38 | 2.11 | 2.06 |
| 21 | b | 1224 | CLA | CHC-C1C | 2.38 | 1.41 | 1.35 |
| 21 | B | 1214 | CLA | C1C-NC | -2.38 | 1.34 | 1.37 |
| 21 | b | 1229 | CLA | C1C-NC | -2.38 | 1.34 | 1.37 |
| 21 | 1 | 1120 | CLA | C1C-NC | -2.38 | 1.34 | 1.37 |
| 21 | 2 | 1023 | CLA | C1C-NC | -2.37 | 1.34 | 1.37 |
| 21 | B | 1225 | CLA | MG-NC | 2.37 | 2.11 | 2.06 |
| 21 | 1 | 1801 | CLA | MG-NC | 2.37 | 2.11 | 2.06 |
| 21 | a | 1136 | CLA | MG-NC | 2.37 | 2.11 | 2.06 |
| 21 | B | 1204 | CLA | MG-NC | 2.37 | 2.11 | 2.06 |
| 21 | B | 1237 | CLA | CHC-C1C | 2.37 | 1.41 | 1.35 |
| 21 | 1 | 1103 | CLA | C1C-C2C | 2.37 | 1.49 | 1.44 |
| 21 | 1 | 1140 | CLA | C1C-NC | -2.37 | 1.34 | 1.37 |
| 21 | b | 1022 | CLA | C1C-NC | -2.37 | 1.34 | 1.37 |
| 21 | b | 1225 | CLA | C1C-NC | -2.37 | 1.34 | 1.37 |
| 21 | a | 1128 | CLA | MG-NC | 2.37 | 2.11 | 2.06 |
| 21 | 2 | 1205 | CLA | CHC-C1C | 2.37 | 1.41 | 1.35 |
| 21 | 1 | 1106 | CLA | MG-NC | 2.37 | 2.11 | 2.06 |
| 21 | a | 1108 | CLA | C3B-C2B | -2.37 | 1.37 | 1.40 |
| 21 | a | 1118 | CLA | MG-NC | 2.37 | 2.11 | 2.06 |
| 21 | 2 | 1232 | CLA | MG-NC | 2.37 | 2.11 | 2.06 |
| 21 | 6 | 1302 | CLA | MG-NC | 2.37 | 2.11 | 2.06 |
| 21 | 1 | 1128 | CLA | C1C-C2C | 2.37 | 1.49 | 1.44 |
| 21 | A | 1104 | CLA | MG-NC | 2.37 | 2.11 | 2.06 |
| 21 | 1 | 1102 | CLA | MG-NC | 2.37 | 2.11 | 2.06 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | l | 1503 | CLA | C1C-NC | -2.37 | 1.34 | 1.37 |
| 21 | a | 1120 | CLA | CHC-C1C | 2.37 | 1.41 | 1.35 |
| 21 | A | 1116 | CLA | MG-NC | 2.37 | 2.11 | 2.06 |
| 21 | b | 1209 | CLA | MG-NC | 2.37 | 2.11 | 2.06 |
| 21 | a | 1107 | CLA | MG-NC | 2.37 | 2.11 | 2.06 |
| 21 | 2 | 1021 | CLA | C1C-NC | -2.37 | 1.34 | 1.37 |
| 21 | B | 1205 | CLA | CHC-C1C | 2.37 | 1.41 | 1.35 |
| 21 | a | 1129 | CLA | C1C-NC | -2.37 | 1.34 | 1.37 |
| 21 | 7 | 1303 | CLA | CHC-C1C | 2.37 | 1.41 | 1.35 |
| 21 | B | 1223 | CLA | MG-NC | 2.37 | 2.11 | 2.06 |
| 21 | a | 1101 | CLA | MG-NC | 2.36 | 2.11 | 2.06 |
| 21 | B | 1205 | CLA | C1C-NC | -2.36 | 1.34 | 1.37 |
| 21 | B | 1226 | CLA | CHC-C1C | 2.36 | 1.41 | 1.35 |
| 21 | 1 | 1111 | CLA | C1C-NC | -2.36 | 1.34 | 1.37 |
| 21 | 2 | 1225 | CLA | C1C-NC | -2.36 | 1.34 | 1.37 |
| 21 | 8 | 1401 | CLA | C1C-NC | -2.36 | 1.34 | 1.37 |
| 21 | 1 | 1117 | CLA | MG-NC | 2.36 | 2.11 | 2.06 |
| 21 | a | 1012 | CLA | MG-NC | 2.36 | 2.11 | 2.06 |
| 21 | b | 1204 | CLA | C1C-NC | -2.36 | 1.34 | 1.37 |
| 21 | 2 | 1213 | CLA | C1C-NC | -2.36 | 1.34 | 1.37 |
| 21 | L | 1503 | CLA | C1C-NC | -2.36 | 1.34 | 1.37 |
| 21 | 2 | 1226 | CLA | MG-NC | 2.36 | 2.11 | 2.06 |
| 35 | 0 | 6001 | LMT | O2B-C2B | -2.36 | 1.37 | 1.43 |
| 21 | B | 1235 | CLA | C1C-NC | -2.36 | 1.34 | 1.37 |
| 21 | J | 1302 | CLA | C3B-C2B | -2.36 | 1.37 | 1.40 |
| 21 | b | 1239 | CLA | C1C-NC | -2.36 | 1.34 | 1.37 |
| 21 | a | 1103 | CLA | CHC-C1C | 2.36 | 1.41 | 1.35 |
| 21 | a | 1105 | CLA | C1C-NC | -2.36 | 1.34 | 1.37 |
| 21 | 2 | 1235 | CLA | C1C-NC | -2.36 | 1.34 | 1.37 |
| 21 | 2 | 1225 | CLA | MG-NC | 2.36 | 2.11 | 2.06 |
| 21 | b | 1231 | CLA | C1C-NC | -2.36 | 1.34 | 1.37 |
| 21 | 1 | 1128 | CLA | CHC-C1C | 2.36 | 1.41 | 1.35 |
| 21 | 2 | 1203 | CLA | MG-NC | 2.36 | 2.11 | 2.06 |
| 28 | h | 4020 | 45D | O02-C18 | -2.36 | 1.18 | 1.23 |
| 21 | a | 1124 | CLA | MG-NC | 2.36 | 2.11 | 2.06 |
| 21 | A | 1110 | CLA | C1C-NC | -2.35 | 1.34 | 1.37 |
| 21 | b | 1236 | CLA | MG-NC | 2.35 | 2.11 | 2.06 |
| 21 | A | 1111 | CLA | C3B-C2B | -2.35 | 1.37 | 1.40 |
| 21 | 2 | 1221 | CLA | C3B-C2B | -2.35 | 1.37 | 1.40 |
| 21 | 1 | 1121 | CLA | CHC-C1C | 2.35 | 1.41 | 1.35 |
| 21 | B | 1216 | CLA | C1C-NC | -2.35 | 1.34 | 1.37 |
| 21 | a | 1110 | CLA | C1C-NC | -2.35 | 1.34 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | 2 | 1205 | CLA | C1C-NC | -2.35 | 1.34 | 1.37 |
| 21 | 7 | 1302 | CLA | C1C-NC | -2.35 | 1.34 | 1.37 |
| 21 | 0 | 1503 | CLA | MG-NC | 2.35 | 2.11 | 2.06 |
| 21 | 1 | 1110 | CLA | C1C-NC | -2.35 | 1.34 | 1.37 |
| 21 | 2 | 1212 | CLA | C1C-NC | -2.35 | 1.34 | 1.37 |
| 21 | B | 1227 | CLA | MG-NC | 2.35 | 2.11 | 2.06 |
| 21 | a | 1110 | CLA | MG-NC | 2.35 | 2.11 | 2.06 |
| 21 | 2 | 1237 | CLA | MG-NC | 2.35 | 2.11 | 2.06 |
| 21 | B | 1206 | CLA | C1C-NC | -2.35 | 1.34 | 1.37 |
| 21 | A | 1118 | CLA | MG-NC | 2.35 | 2.11 | 2.06 |
| 21 | 1 | 1101 | CLA | MG-NC | 2.35 | 2.11 | 2.06 |
| 21 | a | 1113 | CLA | C1C-NC | -2.35 | 1.34 | 1.37 |
| 21 | b | 1228 | CLA | C1C-NC | -2.35 | 1.34 | 1.37 |
| 21 | B | 1208 | CLA | MG-NC | 2.35 | 2.11 | 2.06 |
| 21 | b | 1201 | CLA | MG-NC | 2.35 | 2.11 | 2.06 |
| 21 | B | 1217 | CLA | C1C-NC | -2.35 | 1.34 | 1.37 |
| 21 | K | 1402 | CLA | C1C-NC | -2.35 | 1.34 | 1.37 |
| 21 | B | 1213 | CLA | C1C-NC | -2.35 | 1.34 | 1.37 |
| 21 | 2 | 1235 | CLA | MG-NC | 2.35 | 2.11 | 2.06 |
| 21 | B | 1238 | CLA | C1C-NC | -2.34 | 1.34 | 1.37 |
| 21 | a | 1116 | CLA | MG-NC | 2.34 | 2.11 | 2.06 |
| 21 | B | 1215 | CLA | C1C-NC | -2.34 | 1.34 | 1.37 |
| 21 | B | 1234 | CLA | C1C-NC | -2.34 | 1.34 | 1.37 |
| 21 | a | 1109 | CLA | MG-NC | 2.34 | 2.11 | 2.06 |
| 21 | a | 1109 | CLA | C1C-NC | -2.34 | 1.34 | 1.37 |
| 21 | b | 1206 | CLA | C1C-NC | -2.34 | 1.34 | 1.37 |
| 21 | B | 1201 | CLA | C1C-NC | -2.34 | 1.34 | 1.37 |
| 21 | b | 1201 | CLA | C1C-NC | -2.34 | 1.34 | 1.37 |
| 21 | A | 1123 | CLA | CHC-C1C | 2.34 | 1.41 | 1.35 |
| 21 | 2 | 1211 | CLA | C1C-NC | -2.34 | 1.34 | 1.37 |
| 21 | 1 | 1118 | CLA | MG-NC | 2.34 | 2.11 | 2.06 |
| 21 | B | 1237 | CLA | MG-NC | 2.34 | 2.11 | 2.06 |
| 21 | b | 1238 | CLA | CHC-C1C | 2.34 | 1.41 | 1.35 |
| 22 | b | 2002 | PQN | C10-C5 | -2.34 | 1.36 | 1.40 |
| 21 | a | 1116 | CLA | C1C-NC | -2.34 | 1.34 | 1.37 |
| 21 | a | 1111 | CLA | C3B-C2B | -2.34 | 1.37 | 1.40 |
| 21 | 1 | 1126 | CLA | MG-NC | 2.34 | 2.11 | 2.06 |
| 21 | a | 1133 | CLA | MG-NC | 2.34 | 2.11 | 2.06 |
| 21 | B | 1203 | CLA | C3B-C2B | -2.34 | 1.37 | 1.40 |
| 21 | 1 | 1115 | CLA | MG-NC | 2.34 | 2.11 | 2.06 |
| 21 | b | 1213 | CLA | C1C-NC | -2.34 | 1.34 | 1.37 |
| 36 | I | 4020 | EQ3 | C17-C18 | 2.34 | 1.38 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | B | 1228 | CLA | MG-NC | 2.33 | 2.11 | 2.06 |
| 21 | B | 1239 | CLA | MG-NC | 2.33 | 2.11 | 2.06 |
| 21 | B | 1239 | CLA | C1C-NC | -2.33 | 1.34 | 1.37 |
| 21 | B | 1231 | CLA | MG-NC | 2.33 | 2.11 | 2.06 |
| 21 | B | 1208 | CLA | C1C-NC | -2.33 | 1.34 | 1.37 |
| 21 | B | 1224 | CLA | C1C-NC | -2.33 | 1.34 | 1.37 |
| 21 | 2 | 1234 | CLA | C1C-NC | -2.33 | 1.34 | 1.37 |
| 21 | A | 1139 | CLA | C3B-C2B | -2.33 | 1.37 | 1.40 |
| 21 | B | 1225 | CLA | C1C-NC | -2.33 | 1.34 | 1.37 |
| 21 | 1 | 1133 | CLA | MG-NC | 2.33 | 2.11 | 2.06 |
| 21 | A | 1135 | CLA | CHC-C1C | 2.33 | 1.40 | 1.35 |
| 21 | b | 1204 | CLA | MG-NC | 2.33 | 2.11 | 2.06 |
| 21 | B | 1237 | CLA | C1C-NC | -2.33 | 1.34 | 1.37 |
| 21 | 1 | 1130 | CLA | C1C-NC | -2.33 | 1.34 | 1.37 |
| 21 | B | 1206 | CLA | MG-NC | 2.33 | 2.11 | 2.06 |
| 21 | a | 1115 | CLA | MG-NC | 2.33 | 2.11 | 2.06 |
| 21 | a | 1011 | CLA | MG-NC | 2.33 | 2.11 | 2.06 |
| 21 | 2 | 1230 | CLA | C3B-C2B | -2.33 | 1.37 | 1.40 |
| 21 | B | 1220 | CLA | MG-NC | 2.33 | 2.11 | 2.06 |
| 21 | a | 1106 | CLA | MG-NC | 2.33 | 2.11 | 2.06 |
| 21 | 2 | 1231 | CLA | MG-NC | 2.33 | 2.11 | 2.06 |
| 21 | B | 1226 | CLA | MG-NC | 2.33 | 2.11 | 2.06 |
| 21 | 1 | 1122 | CLA | MG-NC | 2.33 | 2.11 | 2.06 |
| 21 | a | 1134 | CLA | C1C-NC | -2.33 | 1.34 | 1.37 |
| 21 | k | 1402 | CLA | MG-NC | 2.33 | 2.11 | 2.06 |
| 36 | I | 4020 | EQ3 | C27-C26 | 2.33 | 1.52 | 1.47 |
| 21 | b | 1221 | CLA | C1C-C2C | 2.32 | 1.49 | 1.44 |
| 21 | j | 1302 | CLA | C3B-C2B | -2.32 | 1.37 | 1.40 |
| 21 | F | 1301 | CLA | C1C-NC | -2.32 | 1.34 | 1.37 |
| 21 | A | 1103 | CLA | C1C-C2C | 2.32 | 1.49 | 1.44 |
| 21 | A | 1117 | CLA | MG-NC | 2.32 | 2.11 | 2.06 |
| 21 | 2 | 1203 | CLA | C1C-NC | -2.32 | 1.34 | 1.37 |
| 21 | 8 | 1402 | CLA | C1C-NC | -2.32 | 1.34 | 1.37 |
| 21 | b | 1227 | CLA | MG-NC | 2.32 | 2.11 | 2.06 |
| 21 | 1 | 1132 | CLA | MG-NC | 2.32 | 2.11 | 2.06 |
| 21 | 2 | 1224 | CLA | C1C-NC | -2.32 | 1.34 | 1.37 |
| 21 | F | 1302 | CLA | C1C-NC | -2.32 | 1.34 | 1.37 |
| 21 | a | 1117 | CLA | MG-NC | 2.32 | 2.11 | 2.06 |
| 21 | 1 | 1104 | CLA | C1C-NC | -2.32 | 1.34 | 1.37 |
| 21 | A | 1121 | CLA | CHC-C1C | 2.32 | 1.40 | 1.35 |
| 21 | 2 | 1239 | CLA | CHC-C1C | 2.32 | 1.40 | 1.35 |
| 21 | B | 1221 | CLA | C3B-C2B | -2.32 | 1.37 | 1.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | a | 1127 | CLA | MG-NC | 2.32 | 2.11 | 2.06 |
| 21 | b | 1207 | CLA | MG-NC | 2.32 | 2.11 | 2.06 |
| 21 | A | 1118 | CLA | C1C-NC | -2.32 | 1.34 | 1.37 |
| 21 | 2 | 1239 | CLA | MG-NC | 2.32 | 2.11 | 2.06 |
| 21 | b | 1215 | CLA | C1C-NC | -2.32 | 1.34 | 1.37 |
| 21 | b | 1221 | CLA | C1C-NC | -2.32 | 1.34 | 1.37 |
| 21 | a | 1123 | CLA | C3B-C2B | -2.32 | 1.37 | 1.40 |
| 21 | A | 1115 | CLA | MG-NC | 2.32 | 2.11 | 2.06 |
| 35 | F | 6001 | LMT | O3B-C3B | -2.32 | 1.37 | 1.43 |
| 35 | 0 | 6001 | LMT | O2'-C2' | -2.32 | 1.37 | 1.43 |
| 21 | b | 1219 | CLA | C1C-NC | -2.32 | 1.34 | 1.37 |
| 21 | l | 1501 | CLA | C1C-NC | -2.32 | 1.34 | 1.37 |
| 21 | b | 1022 | CLA | MG-NC | 2.32 | 2.11 | 2.06 |
| 21 | b | 1211 | CLA | MG-NC | 2.32 | 2.11 | 2.06 |
| 21 | b | 1239 | CLA | MG-NC | 2.32 | 2.11 | 2.06 |
| 21 | 2 | 1201 | CLA | MG-NC | 2.32 | 2.11 | 2.06 |
| 21 | b | 1208 | CLA | C1C-NC | -2.32 | 1.34 | 1.37 |
| 21 | 1 | 1012 | CLA | C1C-NC | -2.32 | 1.34 | 1.37 |
| 21 | 2 | 1202 | CLA | MG-NC | 2.32 | 2.11 | 2.06 |
| 21 | b | 1231 | CLA | MG-NC | 2.31 | 2.11 | 2.06 |
| 21 | B | 1210 | CLA | C1C-NC | -2.31 | 1.34 | 1.37 |
| 21 | a | 1131 | CLA | C1C-NC | -2.31 | 1.34 | 1.37 |
| 21 | A | 1140 | CLA | C1C-NC | -2.31 | 1.34 | 1.37 |
| 21 | b | 1205 | CLA | C3B-C2B | -2.31 | 1.37 | 1.40 |
| 21 | A | 1108 | CLA | MG-NC | 2.31 | 2.11 | 2.06 |
| 21 | a | 1138 | CLA | C1C-NC | -2.31 | 1.34 | 1.37 |
| 21 | b | 1240 | CLA | C1C-NC | -2.31 | 1.34 | 1.37 |
| 21 | B | 1218 | CLA | MG-NC | 2.31 | 2.11 | 2.06 |
| 21 | 2 | 1212 | CLA | MG-NC | 2.31 | 2.11 | 2.06 |
| 21 | B | 1228 | CLA | C1C-NC | -2.31 | 1.34 | 1.37 |
| 21 | 1 | 1112 | CLA | C1C-NC | -2.31 | 1.34 | 1.37 |
| 21 | B | 1238 | CLA | MG-NC | 2.31 | 2.11 | 2.06 |
| 21 | a | 1125 | CLA | MG-NC | 2.31 | 2.11 | 2.06 |
| 21 | 2 | 1215 | CLA | MG-NC | 2.31 | 2.11 | 2.06 |
| 21 | A | 1801 | CLA | MG-NC | 2.31 | 2.11 | 2.06 |
| 21 | 1 | 1110 | CLA | MG-NC | 2.31 | 2.11 | 2.06 |
| 35 | F | 6001 | LMT | O2B-C2B | -2.31 | 1.37 | 1.43 |
| 21 | B | 1235 | CLA | MG-NC | 2.31 | 2.11 | 2.06 |
| 21 | B | 1207 | CLA | MG-NC | 2.31 | 2.11 | 2.06 |
| 21 | 1 | 1013 | CLA | C1C-NC | -2.31 | 1.34 | 1.37 |
| 21 | a | 1121 | CLA | C1C-NC | -2.31 | 1.34 | 1.37 |
| 21 | 1 | 1126 | CLA | C1C-NC | -2.31 | 1.34 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | 1 | 1105 | CLA | C1C-NC | -2.31 | 1.34 | 1.37 |
| 21 | 2 | 1237 | CLA | C1C-NC | -2.31 | 1.34 | 1.37 |
| 21 | A | 1128 | CLA | CHC-C1C | 2.31 | 1.40 | 1.35 |
| 21 | 2 | 1232 | CLA | C3B-C2B | -2.31 | 1.37 | 1.40 |
| 21 | A | 1101 | CLA | MG-NC | 2.31 | 2.11 | 2.06 |
| 21 | a | 1126 | CLA | MG-NC | 2.30 | 2.11 | 2.06 |
| 21 | b | 1234 | CLA | MG-NC | 2.30 | 2.11 | 2.06 |
| 21 | A | 1102 | CLA | MG-NC | 2.30 | 2.11 | 2.06 |
| 21 | A | 1126 | CLA | C1C-NC | -2.30 | 1.34 | 1.37 |
| 21 | a | 1119 | CLA | C1C-NC | -2.30 | 1.34 | 1.37 |
| 21 | B | 1201 | CLA | MG-NC | 2.30 | 2.11 | 2.06 |
| 21 | A | 1132 | CLA | C3B-C2B | -2.30 | 1.37 | 1.40 |
| 21 | B | 1240 | CLA | C1C-NC | -2.30 | 1.34 | 1.37 |
| 21 | B | 1236 | CLA | MG-NC | 2.30 | 2.11 | 2.06 |
| 21 | 1 | 1129 | CLA | C1C-NC | -2.30 | 1.34 | 1.37 |
| 21 | B | 1207 | CLA | C1A-CHA | 2.30 | 1.52 | 1.43 |
| 21 | 1 | 1013 | CLA | C1A-CHA | 2.30 | 1.52 | 1.43 |
| 21 | A | 1114 | CLA | C1C-NC | -2.30 | 1.34 | 1.37 |
| 21 | B | 1211 | CLA | C1C-NC | -2.30 | 1.34 | 1.37 |
| 21 | 1 | 1108 | CLA | C3B-C2B | -2.30 | 1.37 | 1.40 |
| 21 | a | 1134 | CLA | MG-NC | 2.30 | 2.11 | 2.06 |
| 35 | F | 6001 | LMT | O2'-C2' | -2.30 | 1.37 | 1.43 |
| 21 | a | 1011 | CLA | C1C-NC | -2.30 | 1.34 | 1.37 |
| 21 | a | 1133 | CLA | C1C-NC | -2.30 | 1.34 | 1.37 |
| 21 | 6 | 1302 | CLA | C1A-CHA | 2.30 | 1.52 | 1.43 |
| 21 | a | 1131 | CLA | MG-NC | 2.30 | 2.11 | 2.06 |
| 21 | j | 1303 | CLA | C3B-C2B | -2.30 | 1.37 | 1.40 |
| 21 | 6 | 1301 | CLA | C1C-NC | -2.30 | 1.34 | 1.37 |
| 21 | A | 1119 | CLA | C1C-NC | -2.29 | 1.34 | 1.37 |
| 21 | B | 1205 | CLA | C1C-C2C | 2.29 | 1.49 | 1.44 |
| 21 | 2 | 1238 | CLA | MG-NC | 2.29 | 2.11 | 2.06 |
| 21 | B | 1202 | CLA | C1C-NC | -2.29 | 1.34 | 1.37 |
| 21 | B | 1224 | CLA | MG-NC | 2.29 | 2.11 | 2.06 |
| 21 | A | 1122 | CLA | MG-NC | 2.29 | 2.11 | 2.06 |
| 21 | A | 1112 | CLA | C1C-NC | -2.29 | 1.34 | 1.37 |
| 21 | b | 1230 | CLA | C1C-NC | -2.29 | 1.34 | 1.37 |
| 21 | 1 | 1102 | CLA | C1C-NC | -2.29 | 1.34 | 1.37 |
| 21 | 1 | 1125 | CLA | C1C-NC | -2.29 | 1.34 | 1.37 |
| 21 | A | 1121 | CLA | MG-NC | 2.29 | 2.11 | 2.06 |
| 21 | 2 | 1227 | CLA | MG-NC | 2.29 | 2.11 | 2.06 |
| 21 | a | 1114 | CLA | C3B-C2B | -2.29 | 1.37 | 1.40 |
| 21 | b | 1213 | CLA | MG-NC | 2.29 | 2.11 | 2.06 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | K | 1402 | CLA | CHC-C1C | 2.29 | 1.40 | 1.35 |
| 21 | 1 | 1104 | CLA | MG-NC | 2.29 | 2.11 | 2.06 |
| 21 | 1 | 1137 | CLA | MG-NC | 2.29 | 2.11 | 2.06 |
| 21 | B | 1231 | CLA | C1C-NC | -2.29 | 1.34 | 1.37 |
| 21 | B | 1219 | CLA | MG-NC | 2.29 | 2.11 | 2.06 |
| 21 | b | 1235 | CLA | MG-NC | 2.29 | 2.11 | 2.06 |
| 21 | 2 | 1208 | CLA | MG-NC | 2.29 | 2.11 | 2.06 |
| 21 | k | 1401 | CLA | C1C-NC | -2.29 | 1.34 | 1.37 |
| 21 | A | 1111 | CLA | MG-NC | 2.29 | 2.11 | 2.06 |
| 21 | 1 | 1129 | CLA | MG-NC | 2.29 | 2.11 | 2.06 |
| 21 | a | 1140 | CLA | MG-NC | 2.28 | 2.11 | 2.06 |
| 27 | A | 7001 | ACT | CH3-C | 2.28 | 1.58 | 1.49 |
| 21 | A | 1117 | CLA | C1C-NC | -2.28 | 1.34 | 1.37 |
| 21 | A | 1130 | CLA | C1C-NC | -2.28 | 1.34 | 1.37 |
| 21 | f | 1301 | CLA | C1C-NC | -2.28 | 1.34 | 1.37 |
| 21 | 2 | 1238 | CLA | C1C-NC | -2.28 | 1.34 | 1.37 |
| 21 | 1 | 1107 | CLA | C1C-NC | -2.28 | 1.34 | 1.37 |
| 21 | A | 1139 | CLA | MG-NC | 2.28 | 2.11 | 2.06 |
| 21 | 1 | 1134 | CLA | MG-NC | 2.28 | 2.11 | 2.06 |
| 21 | B | 1230 | CLA | MG-NC | 2.28 | 2.11 | 2.06 |
| 21 | A | 1121 | CLA | C3B-C2B | -2.28 | 1.37 | 1.40 |
| 21 | A | 1109 | CLA | MG-NC | 2.28 | 2.11 | 2.06 |
| 21 | 1 | 1130 | CLA | MG-NC | 2.28 | 2.11 | 2.06 |
| 21 | 1 | 1113 | CLA | C1C-NC | -2.28 | 1.34 | 1.37 |
| 21 | 1 | 1011 | CLA | C1C-NC | -2.28 | 1.34 | 1.37 |
| 21 | 1 | 1131 | CLA | MG-NC | 2.28 | 2.11 | 2.06 |
| 21 | 1 | 1140 | CLA | C3B-C2B | -2.28 | 1.37 | 1.40 |
| 21 | a | 1135 | CLA | C1C-NC | -2.28 | 1.34 | 1.37 |
| 21 | A | 1127 | CLA | C1C-NC | -2.28 | 1.34 | 1.37 |
| 21 | L | 1502 | CLA | C1C-NC | -2.28 | 1.34 | 1.37 |
| 21 | a | 1104 | CLA | MG-NC | 2.28 | 2.11 | 2.06 |
| 21 | 0 | 1501 | CLA | C1C-NC | -2.28 | 1.34 | 1.37 |
| 21 | B | 1021 | CLA | C1C-NC | -2.27 | 1.34 | 1.37 |
| 21 | b | 1021 | CLA | MG-NC | 2.27 | 2.11 | 2.06 |
| 21 | k | 1402 | CLA | C1C-NC | -2.27 | 1.34 | 1.37 |
| 21 | a | 1132 | CLA | C3B-C2B | -2.27 | 1.37 | 1.40 |
| 21 | b | 1205 | CLA | C1C-NC | -2.27 | 1.34 | 1.37 |
| 21 | A | 1102 | CLA | C1C-NC | -2.27 | 1.34 | 1.37 |
| 21 | 1 | 1116 | CLA | C1C-NC | -2.27 | 1.34 | 1.37 |
| 21 | 2 | 1214 | CLA | C1C-NC | -2.27 | 1.34 | 1.37 |
| 21 | b | 1216 | CLA | MG-NC | 2.27 | 2.11 | 2.06 |
| 21 | j | 1303 | CLA | C1C-NC | -2.27 | 1.34 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | A | 1134 | CLA | MG-NC | 2.27 | 2.11 | 2.06 |
| 21 | B | 1212 | CLA | MG-NC | 2.27 | 2.11 | 2.06 |
| 21 | A | 1013 | CLA | C1C-NC | -2.27 | 1.34 | 1.37 |
| 21 | A | 1112 | CLA | C3B-C2B | -2.27 | 1.37 | 1.40 |
| 21 | 2 | 1210 | CLA | C3B-C2B | -2.27 | 1.37 | 1.40 |
| 21 | A | 1123 | CLA | C1C-NC | -2.26 | 1.34 | 1.37 |
| 21 | A | 1801 | CLA | C1C-NC | -2.26 | 1.34 | 1.37 |
| 21 | 2 | 1232 | CLA | C1C-NC | -2.26 | 1.34 | 1.37 |
| 21 | a | 1124 | CLA | C1C-NC | -2.26 | 1.34 | 1.37 |
| 21 | 2 | 1201 | CLA | C1C-NC | -2.26 | 1.34 | 1.37 |
| 21 | 2 | 1240 | CLA | C1C-NC | -2.26 | 1.34 | 1.37 |
| 21 | a | 1104 | CLA | C1C-NC | -2.26 | 1.34 | 1.37 |
| 21 | A | 1125 | CLA | MG-NC | 2.26 | 2.11 | 2.06 |
| 21 | a | 1114 | CLA | C1C-NC | -2.26 | 1.34 | 1.37 |
| 21 | l | 1503 | CLA | MG-NC | 2.26 | 2.11 | 2.06 |
| 21 | a | 1138 | CLA | C3B-C2B | -2.26 | 1.37 | 1.40 |
| 21 | A | 1123 | CLA | C1A-CHA | 2.26 | 1.52 | 1.43 |
| 21 | 2 | 1215 | CLA | C1C-NC | -2.26 | 1.34 | 1.37 |
| 21 | a | 1139 | CLA | C1C-NC | -2.25 | 1.34 | 1.37 |
| 21 | A | 1138 | CLA | C3B-C2B | -2.25 | 1.37 | 1.40 |
| 21 | B | 1023 | CLA | MG-NC | 2.25 | 2.11 | 2.06 |
| 21 | a | 1013 | CLA | C1C-NC | -2.25 | 1.34 | 1.37 |
| 21 | 1 | 1114 | CLA | C1C-NC | -2.25 | 1.34 | 1.37 |
| 21 | A | 1135 | CLA | C1C-NC | -2.25 | 1.34 | 1.37 |
| 21 | 1 | 1801 | CLA | C1C-NC | -2.25 | 1.34 | 1.37 |
| 21 | b | 1208 | CLA | MG-NC | 2.25 | 2.11 | 2.06 |
| 21 | 2 | 1204 | CLA | MG-NC | 2.25 | 2.11 | 2.06 |
| 21 | J | 1303 | CLA | C1C-NC | -2.25 | 1.34 | 1.37 |
| 21 | 1 | 1109 | CLA | C3B-C2B | -2.25 | 1.37 | 1.40 |
| 21 | B | 1021 | CLA | MG-NC | 2.25 | 2.11 | 2.06 |
| 21 | a | 1119 | CLA | MG-NC | 2.25 | 2.11 | 2.06 |
| 21 | a | 1123 | CLA | C1C-NC | -2.25 | 1.34 | 1.37 |
| 21 | b | 1232 | CLA | C1C-NC | -2.25 | 1.34 | 1.37 |
| 21 | A | 1011 | CLA | MG-NC | 2.25 | 2.11 | 2.06 |
| 21 | B | 1232 | CLA | MG-NC | 2.25 | 2.11 | 2.06 |
| 21 | a | 1129 | CLA | MG-NC | 2.25 | 2.11 | 2.06 |
| 21 | a | 1108 | CLA | C1C-NC | -2.25 | 1.34 | 1.37 |
| 21 | A | 1128 | CLA | C1C-NC | -2.24 | 1.34 | 1.37 |
| 21 | 1 | 1106 | CLA | C1C-NC | -2.24 | 1.34 | 1.37 |
| 34 | 7 | 4015 | ZEX | C1-C6 | -2.24 | 1.50 | 1.53 |
| 21 | b | 1235 | CLA | C1C-NC | -2.24 | 1.34 | 1.37 |
| 21 | 1 | 1131 | CLA | C1C-NC | -2.24 | 1.34 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | 2 | 1226 | CLA | C1C-NC | -2.24 | 1.34 | 1.37 |
| 21 | B | 1229 | CLA | MG-NC | 2.24 | 2.11 | 2.06 |
| 21 | 2 | 1220 | CLA | C3B-C2B | -2.24 | 1.37 | 1.40 |
| 21 | 0 | 1503 | CLA | C3B-C2B | -2.24 | 1.37 | 1.40 |
| 21 | a | 1136 | CLA | C1A-CHA | 2.24 | 1.52 | 1.43 |
| 21 | b | 1203 | CLA | C1C-NC | -2.24 | 1.34 | 1.37 |
| 21 | 1 | 1121 | CLA | C1C-NC | -2.24 | 1.34 | 1.37 |
| 21 | 2 | 1021 | CLA | MG-NC | 2.24 | 2.11 | 2.06 |
| 21 | A | 1104 | CLA | C1C-NC | -2.24 | 1.34 | 1.37 |
| 21 | A | 1113 | CLA | C1C-NC | -2.24 | 1.34 | 1.37 |
| 21 | b | 1217 | CLA | C1C-NC | -2.24 | 1.34 | 1.37 |
| 21 | a | 1106 | CLA | C3B-C2B | -2.24 | 1.37 | 1.40 |
| 21 | 1 | 1013 | CLA | MG-NC | 2.24 | 2.11 | 2.06 |
| 21 | 2 | 1218 | CLA | C1C-NC | -2.24 | 1.34 | 1.37 |
| 21 | l | 1502 | CLA | MG-NC | 2.24 | 2.11 | 2.06 |
| 21 | a | 1132 | CLA | C1C-NC | -2.23 | 1.34 | 1.37 |
| 21 | 2 | 1203 | CLA | C3B-C2B | -2.23 | 1.37 | 1.40 |
| 21 | b | 1227 | CLA | C1C-NC | -2.23 | 1.34 | 1.37 |
| 21 | b | 1226 | CLA | C1C-NC | -2.23 | 1.34 | 1.37 |
| 21 | A | 1120 | CLA | MG-NC | 2.23 | 2.11 | 2.06 |
| 21 | B | 1022 | CLA | C1C-NC | -2.23 | 1.34 | 1.37 |
| 21 | b | 1214 | CLA | C1C-NC | -2.23 | 1.34 | 1.37 |
| 21 | l | 1502 | CLA | C1C-NC | -2.23 | 1.34 | 1.37 |
| 21 | 6 | 1302 | CLA | C1C-NC | -2.23 | 1.34 | 1.37 |
| 21 | 2 | 1213 | CLA | MG-NC | 2.23 | 2.11 | 2.06 |
| 21 | a | 1106 | CLA | C1C-NC | -2.23 | 1.34 | 1.37 |
| 21 | 2 | 1205 | CLA | MG-NC | 2.23 | 2.11 | 2.06 |
| 21 | B | 1222 | CLA | C1C-C2C | 2.23 | 1.48 | 1.44 |
| 21 | a | 1125 | CLA | C3B-C2B | -2.23 | 1.37 | 1.40 |
| 21 | b | 1220 | CLA | MG-NC | 2.23 | 2.11 | 2.06 |
| 21 | b | 1215 | CLA | MG-NC | 2.23 | 2.11 | 2.06 |
| 21 | A | 1138 | CLA | MG-NC | 2.22 | 2.11 | 2.06 |
| 21 | b | 1210 | CLA | C1C-NC | -2.22 | 1.34 | 1.37 |
| 21 | 2 | 1204 | CLA | C3B-C2B | -2.22 | 1.37 | 1.40 |
| 21 | B | 1221 | CLA | C1C-NC | -2.22 | 1.34 | 1.37 |
| 21 | 2 | 1207 | CLA | MG-NC | 2.22 | 2.11 | 2.06 |
| 21 | B | 1231 | CLA | C3B-C2B | -2.22 | 1.37 | 1.40 |
| 21 | 2 | 1217 | CLA | C1C-NC | -2.22 | 1.34 | 1.37 |
| 21 | 1 | 1119 | CLA | MG-NC | 2.22 | 2.11 | 2.06 |
| 26 | A | 5002 | LMG | O1-C1 | 2.22 | 1.44 | 1.40 |
| 21 | A | 1101 | CLA | C1C-NC | -2.22 | 1.34 | 1.37 |
| 21 | b | 1021 | CLA | C1C-NC | -2.22 | 1.34 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | B | 1226 | CLA | C1C-C2C | 2.22 | 1.48 | 1.44 |
| 21 | b | 1230 | CLA | MG-NC | 2.22 | 2.11 | 2.06 |
| 21 | 1 | 1123 | CLA | C1C-NC | -2.22 | 1.34 | 1.37 |
| 21 | 2 | 1023 | CLA | C1A-CHA | 2.22 | 1.52 | 1.43 |
| 21 | b | 1206 | CLA | C3B-C2B | -2.22 | 1.37 | 1.40 |
| 21 | B | 1222 | CLA | MG-NC | 2.22 | 2.11 | 2.06 |
| 21 | 2 | 1237 | CLA | C3B-C2B | -2.22 | 1.37 | 1.40 |
| 21 | B | 1210 | CLA | C3B-C2B | -2.21 | 1.37 | 1.40 |
| 21 | a | 1103 | CLA | MG-NC | 2.21 | 2.11 | 2.06 |
| 35 | L | 6001 | LMT | O2'-C2' | -2.21 | 1.37 | 1.43 |
| 35 | 1 | 6001 | LMT | O2'-C2' | -2.21 | 1.37 | 1.43 |
| 21 | b | 1229 | CLA | MG-NC | 2.21 | 2.11 | 2.06 |
| 21 | 1 | 1103 | CLA | MG-NC | 2.21 | 2.11 | 2.06 |
| 21 | A | 1130 | CLA | MG-NC | 2.21 | 2.11 | 2.06 |
| 35 | 1 | 6001 | LMT | O2B-C2B | -2.21 | 1.37 | 1.43 |
| 21 | 2 | 1229 | CLA | MG-NC | 2.21 | 2.11 | 2.06 |
| 21 | B | 1202 | CLA | MG-NC | 2.21 | 2.11 | 2.06 |
| 21 | 1 | 1135 | CLA | C1C-NC | -2.21 | 1.34 | 1.37 |
| 21 | a | 1118 | CLA | C1C-NC | -2.21 | 1.34 | 1.37 |
| 21 | A | 1112 | CLA | C1A-CHA | 2.20 | 1.52 | 1.43 |
| 35 | 1 | 6001 | LMT | O3B-C3B | -2.20 | 1.37 | 1.43 |
| 21 | a | 1120 | CLA | C3B-C2B | -2.20 | 1.37 | 1.40 |
| 21 | J | 1302 | CLA | C1A-CHA | 2.20 | 1.52 | 1.43 |
| 21 | 1 | 1114 | CLA | C3B-C2B | -2.20 | 1.37 | 1.40 |
| 21 | b | 1023 | CLA | C1A-CHA | 2.20 | 1.52 | 1.43 |
| 21 | b | 1235 | CLA | C3B-C2B | -2.20 | 1.37 | 1.40 |
| 21 | 1 | 1011 | CLA | C1A-CHA | 2.20 | 1.52 | 1.43 |
| 21 | 2 | 1232 | CLA | C1A-CHA | 2.20 | 1.52 | 1.43 |
| 21 | 1 | 1129 | CLA | C3B-C2B | -2.20 | 1.37 | 1.40 |
| 21 | a | 1123 | CLA | C1A-CHA | 2.20 | 1.52 | 1.43 |
| 21 | b | 1211 | CLA | C1C-NC | -2.20 | 1.34 | 1.37 |
| 21 | a | 1101 | CLA | C1C-NC | -2.20 | 1.34 | 1.37 |
| 21 | b | 1203 | CLA | C3B-C2B | -2.19 | 1.37 | 1.40 |
| 35 | 0 | 6001 | LMT | O3B-C3B | -2.19 | 1.37 | 1.43 |
| 21 | 1 | 1139 | CLA | C1C-NC | -2.19 | 1.34 | 1.37 |
| 21 | b | 1220 | CLA | C1A-CHA | 2.19 | 1.52 | 1.43 |
| 21 | 1 | 1123 | CLA | C3B-C2B | -2.19 | 1.37 | 1.40 |
| 21 | A | 1132 | CLA | C1C-NC | -2.19 | 1.34 | 1.37 |
| 21 | b | 1208 | CLA | C3B-C2B | -2.19 | 1.37 | 1.40 |
| 21 | b | 1212 | CLA | MG-NC | 2.19 | 2.11 | 2.06 |
| 21 | A | 1134 | CLA | C1C-NC | -2.19 | 1.34 | 1.37 |
| 21 | 1 | 1120 | CLA | C1A-CHA | 2.19 | 1.52 | 1.43 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | J | 1303 | CLA | C3B-C2B | -2.19 | 1.37 | 1.40 |
| 21 | a | 1138 | CLA | C1A-CHA | 2.19 | 1.52 | 1.43 |
| 21 | 1 | 1128 | CLA | C1C-NC | -2.18 | 1.34 | 1.37 |
| 35 | 1 | 6001 | LMT | O2B-C2B | -2.18 | 1.37 | 1.43 |
| 21 | B | 1206 | CLA | C3B-C2B | -2.18 | 1.37 | 1.40 |
| 21 | A | 1120 | CLA | C1C-NC | -2.18 | 1.34 | 1.37 |
| 21 | a | 1011 | CLA | C1A-CHA | 2.18 | 1.52 | 1.43 |
| 21 | B | 1213 | CLA | C1A-CHA | 2.18 | 1.52 | 1.43 |
| 21 | B | 1217 | CLA | C1A-CHA | 2.18 | 1.52 | 1.43 |
| 21 | 2 | 1209 | CLA | C1A-CHA | 2.18 | 1.52 | 1.43 |
| 21 | A | 1012 | CLA | C1C-NC | -2.18 | 1.34 | 1.37 |
| 21 | A | 1119 | CLA | MG-NC | 2.18 | 2.11 | 2.06 |
| 21 | 1 | 1502 | CLA | C3B-C2B | -2.17 | 1.37 | 1.40 |
| 21 | 2 | 1201 | CLA | C1A-CHA | 2.17 | 1.52 | 1.43 |
| 21 | A | 1110 | CLA | MG-NC | 2.17 | 2.11 | 2.06 |
| 21 | 1 | 1112 | CLA | C1A-CHA | 2.17 | 1.52 | 1.43 |
| 28 | B | 4011 | 45D | O01-C17 | -2.17 | 1.18 | 1.23 |
| 21 | k | 1401 | CLA | C1A-CHA | 2.17 | 1.52 | 1.43 |
| 21 | A | 1129 | CLA | C1C-NC | -2.17 | 1.34 | 1.37 |
| 35 | L | 6001 | LMT | O2B-C2B | -2.17 | 1.37 | 1.43 |
| 21 | 1 | 1102 | CLA | C1A-CHA | 2.17 | 1.52 | 1.43 |
| 21 | 2 | 1206 | CLA | C1A-CHA | 2.17 | 1.52 | 1.43 |
| 21 | 2 | 1214 | CLA | C3B-C2B | -2.16 | 1.37 | 1.40 |
| 21 | 1 | 1012 | CLA | C1A-CHA | 2.16 | 1.52 | 1.43 |
| 21 | 1 | 1132 | CLA | C1C-NC | -2.16 | 1.34 | 1.37 |
| 35 | 1 | 6001 | LMT | O2'-C2' | -2.16 | 1.37 | 1.43 |
| 21 | 2 | 1207 | CLA | C1A-CHA | 2.16 | 1.52 | 1.43 |
| 21 | 7 | 1303 | CLA | C1A-CHA | 2.16 | 1.52 | 1.43 |
| 21 | a | 1801 | CLA | C3B-C2B | -2.16 | 1.37 | 1.40 |
| 21 | B | 1239 | CLA | C1A-CHA | 2.16 | 1.52 | 1.43 |
| 21 | A | 1131 | CLA | MG-NC | 2.16 | 2.11 | 2.06 |
| 21 | L | 1501 | CLA | C1A-CHA | 2.16 | 1.52 | 1.43 |
| 21 | b | 1240 | CLA | C1A-CHA | 2.16 | 1.52 | 1.43 |
| 21 | a | 1112 | CLA | C1A-CHA | 2.16 | 1.52 | 1.43 |
| 21 | a | 1130 | CLA | C3B-C2B | -2.16 | 1.37 | 1.40 |
| 21 | A | 1140 | CLA | MG-NC | 2.16 | 2.11 | 2.06 |
| 21 | A | 1012 | CLA | C1A-CHA | 2.16 | 1.52 | 1.43 |
| 21 | 2 | 1235 | CLA | C3B-C2B | -2.16 | 1.37 | 1.40 |
| 21 | b | 1226 | CLA | MG-NC | 2.16 | 2.11 | 2.06 |
| 21 | 2 | 1215 | CLA | C3B-C2B | -2.16 | 1.37 | 1.40 |
| 21 | b | 1222 | CLA | C1C-NC | -2.16 | 1.34 | 1.37 |
| 21 | 2 | 1212 | CLA | C1A-CHA | 2.16 | 1.52 | 1.43 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | A | 1136 | CLA | C1C-NC | -2.15 | 1.34 | 1.37 |
| 21 | b | 1201 | CLA | C3B-C2B | -2.15 | 1.37 | 1.40 |
| 21 | 1 | 1132 | CLA | C3B-C2B | -2.15 | 1.37 | 1.40 |
| 26 | a | 5004 | LMG | O1-C1 | 2.15 | 1.43 | 1.40 |
| 21 | j | 1302 | CLA | C1A-CHA | 2.15 | 1.52 | 1.43 |
| 21 | b | 1202 | CLA | MG-NC | 2.15 | 2.11 | 2.06 |
| 21 | 2 | 1221 | CLA | C1C-NC | -2.15 | 1.34 | 1.37 |
| 21 | B | 1206 | CLA | C1A-CHA | 2.15 | 1.52 | 1.43 |
| 21 | a | 1102 | CLA | C1A-CHA | 2.15 | 1.52 | 1.43 |
| 21 | a | 1122 | CLA | C3B-C2B | -2.15 | 1.37 | 1.40 |
| 21 | b | 1232 | CLA | C3B-C2B | -2.15 | 1.37 | 1.40 |
| 21 | A | 1106 | CLA | MG-NC | 2.15 | 2.11 | 2.06 |
| 21 | 7 | 1302 | CLA | C1A-CHA | 2.14 | 1.52 | 1.43 |
| 21 | B | 1203 | CLA | C1C-NC | -2.14 | 1.34 | 1.37 |
| 21 | 1 | 1111 | CLA | C1A-CHA | 2.14 | 1.52 | 1.43 |
| 30 | B | 4006 | ECH | C25-C26 | -2.14 | 1.32 | 1.35 |
| 21 | b | 1218 | CLA | C1C-NC | -2.14 | 1.34 | 1.37 |
| 21 | a | 1109 | CLA | C1A-CHA | 2.14 | 1.52 | 1.43 |
| 21 | a | 1108 | CLA | C1A-CHA | 2.14 | 1.52 | 1.43 |
| 21 | 1 | 1110 | CLA | C1A-CHA | 2.14 | 1.52 | 1.43 |
| 21 | 2 | 1228 | CLA | C1A-CHA | 2.14 | 1.52 | 1.43 |
| 21 | A | 1108 | CLA | C3B-C2B | -2.14 | 1.37 | 1.40 |
| 21 | a | 1103 | CLA | C3B-C2B | -2.14 | 1.37 | 1.40 |
| 21 | b | 1220 | CLA | C3B-C2B | -2.14 | 1.37 | 1.40 |
| 21 | a | 1801 | CLA | C1A-CHA | 2.14 | 1.52 | 1.43 |
| 21 | a | 1012 | CLA | C1A-CHA | 2.14 | 1.52 | 1.43 |
| 21 | b | 1218 | CLA | C1A-CHA | 2.14 | 1.52 | 1.43 |
| 21 | 1 | 1138 | CLA | C1A-CHA | 2.14 | 1.52 | 1.43 |
| 21 | B | 1211 | CLA | C1A-CHA | 2.14 | 1.52 | 1.43 |
| 21 | 1 | 1113 | CLA | C1A-CHA | 2.13 | 1.52 | 1.43 |
| 21 | a | 1122 | CLA | C1A-CHA | 2.13 | 1.52 | 1.43 |
| 21 | a | 1134 | CLA | C1A-CHA | 2.13 | 1.52 | 1.43 |
| 21 | B | 1210 | CLA | C1A-CHA | 2.13 | 1.52 | 1.43 |
| 21 | b | 1217 | CLA | C1A-CHA | 2.13 | 1.52 | 1.43 |
| 21 | a | 1125 | CLA | C1A-CHA | 2.13 | 1.51 | 1.43 |
| 21 | 1 | 1136 | CLA | C1C-NC | -2.13 | 1.34 | 1.37 |
| 21 | 2 | 1239 | CLA | C1A-CHA | 2.13 | 1.51 | 1.43 |
| 35 | 1 | 6001 | LMT | O3B-C3B | -2.13 | 1.38 | 1.43 |
| 21 | 2 | 1228 | CLA | MG-NC | 2.13 | 2.11 | 2.06 |
| 21 | 2 | 1216 | CLA | C1C-NC | -2.13 | 1.34 | 1.37 |
| 21 | b | 1206 | CLA | C1A-CHA | 2.13 | 1.51 | 1.43 |
| 21 | A | 1115 | CLA | C3B-C2B | -2.13 | 1.37 | 1.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | B | 1209 | CLA | C1A-CHA | 2.13 | 1.51 | 1.43 |
| 21 | 2 | 1227 | CLA | C1A-CHA | 2.13 | 1.51 | 1.43 |
| 21 | 1 | 1109 | CLA | C1C-NC | -2.13 | 1.34 | 1.37 |
| 21 | 2 | 1220 | CLA | C1A-CHA | 2.13 | 1.51 | 1.43 |
| 21 | 1 | 1124 | CLA | C1C-NC | -2.12 | 1.34 | 1.37 |
| 22 | b | 2002 | PQN | C9-C10 | -2.12 | 1.36 | 1.39 |
| 21 | a | 1112 | CLA | C3B-C2B | -2.12 | 1.37 | 1.40 |
| 21 | B | 1214 | CLA | C1A-CHA | 2.12 | 1.51 | 1.43 |
| 21 | b | 1228 | CLA | C1A-CHA | 2.12 | 1.51 | 1.43 |
| 21 | b | 1222 | CLA | MG-NC | 2.12 | 2.11 | 2.06 |
| 21 | 1 | 1801 | CLA | C3B-C2B | -2.12 | 1.37 | 1.40 |
| 21 | a | 1116 | CLA | C1A-CHA | 2.12 | 1.51 | 1.43 |
| 21 | a | 1124 | CLA | C1A-CHA | 2.12 | 1.51 | 1.43 |
| 21 | a | 1124 | CLA | C3B-C2B | -2.12 | 1.37 | 1.40 |
| 21 | B | 1216 | CLA | C1A-CHA | 2.12 | 1.51 | 1.43 |
| 21 | 1 | 1122 | CLA | C1A-CHA | 2.12 | 1.51 | 1.43 |
| 21 | 2 | 1202 | CLA | C1A-CHA | 2.12 | 1.51 | 1.43 |
| 21 | B | 1204 | CLA | C3B-C2B | -2.12 | 1.37 | 1.40 |
| 21 | b | 1207 | CLA | C1A-CHA | 2.12 | 1.51 | 1.43 |
| 21 | A | 1138 | CLA | C1A-CHA | 2.12 | 1.51 | 1.43 |
| 21 | 2 | 1222 | CLA | C1C-NC | -2.11 | 1.34 | 1.37 |
| 21 | a | 1121 | CLA | C1A-CHA | 2.11 | 1.51 | 1.43 |
| 21 | 1 | 1125 | CLA | C1A-CHA | 2.11 | 1.51 | 1.43 |
| 21 | a | 1120 | CLA | C1A-CHA | 2.11 | 1.51 | 1.43 |
| 21 | J | 1303 | CLA | C1A-CHA | 2.11 | 1.51 | 1.43 |
| 21 | b | 1213 | CLA | C3B-C2B | -2.11 | 1.37 | 1.40 |
| 21 | 1 | 1121 | CLA | C1A-CHA | 2.11 | 1.51 | 1.43 |
| 21 | 1 | 1123 | CLA | C1A-CHA | 2.11 | 1.51 | 1.43 |
| 21 | 1 | 1120 | CLA | C3B-C2B | -2.11 | 1.37 | 1.40 |
| 35 | L | 6001 | LMT | O4'-C4B | -2.11 | 1.38 | 1.43 |
| 21 | k | 1402 | CLA | C1A-CHA | 2.11 | 1.51 | 1.43 |
| 21 | a | 1110 | CLA | C1A-CHA | 2.11 | 1.51 | 1.43 |
| 21 | B | 1023 | CLA | C1A-CHA | 2.11 | 1.51 | 1.43 |
| 21 | 0 | 1501 | CLA | C3B-C2B | -2.11 | 1.37 | 1.40 |
| 21 | b | 1230 | CLA | C1A-CHA | 2.10 | 1.51 | 1.43 |
| 21 | 1 | 1109 | CLA | C1A-CHA | 2.10 | 1.51 | 1.43 |
| 21 | 2 | 1023 | CLA | MG-NC | 2.10 | 2.11 | 2.06 |
| 21 | B | 1220 | CLA | C1A-CHA | 2.10 | 1.51 | 1.43 |
| 21 | 2 | 1213 | CLA | C1A-CHA | 2.10 | 1.51 | 1.43 |
| 21 | a | 1013 | CLA | MG-NC | 2.10 | 2.11 | 2.06 |
| 21 | 2 | 1217 | CLA | C1A-CHA | 2.10 | 1.51 | 1.43 |
| 21 | a | 1111 | CLA | C1A-CHA | 2.10 | 1.51 | 1.43 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | b | 1210 | CLA | C1A-CHA | 2.10 | 1.51 | 1.43 |
| 21 | B | 1022 | CLA | C3B-C2B | -2.10 | 1.37 | 1.40 |
| 21 | B | 1023 | CLA | C3B-C2B | -2.10 | 1.37 | 1.40 |
| 21 | 2 | 1223 | CLA | C1A-CHA | 2.10 | 1.51 | 1.43 |
| 21 | 2 | 1221 | CLA | C1A-CHA | 2.10 | 1.51 | 1.43 |
| 21 | 2 | 1215 | CLA | C1A-CHA | 2.10 | 1.51 | 1.43 |
| 21 | A | 1123 | CLA | C3B-C2B | -2.10 | 1.37 | 1.40 |
| 21 | 2 | 1216 | CLA | C3B-C2B | -2.10 | 1.37 | 1.40 |
| 21 | A | 1137 | CLA | C1A-CHA | 2.10 | 1.51 | 1.43 |
| 21 | 1 | 1139 | CLA | C1A-CHA | 2.09 | 1.51 | 1.43 |
| 21 | L | 1503 | CLA | C3B-C2B | -2.09 | 1.37 | 1.40 |
| 21 | A | 1134 | CLA | C1A-CHA | 2.09 | 1.51 | 1.43 |
| 21 | 1 | 1127 | CLA | C1A-CHA | 2.09 | 1.51 | 1.43 |
| 21 | A | 1133 | CLA | C1C-NC | -2.09 | 1.34 | 1.37 |
| 21 | A | 1117 | CLA | C3B-C2B | -2.09 | 1.37 | 1.40 |
| 21 | B | 1232 | CLA | C1A-CHA | 2.09 | 1.51 | 1.43 |
| 30 | 2 | 4006 | ECH | C1-C6 | -2.09 | 1.50 | 1.53 |
| 21 | B | 1201 | CLA | C3B-C2B | -2.09 | 1.37 | 1.40 |
| 21 | A | 1133 | CLA | MG-NC | 2.09 | 2.11 | 2.06 |
| 21 | a | 1130 | CLA | C1A-CHA | 2.09 | 1.51 | 1.43 |
| 21 | 1 | 1101 | CLA | C1A-CHA | 2.09 | 1.51 | 1.43 |
| 21 | B | 1215 | CLA | C1A-CHA | 2.09 | 1.51 | 1.43 |
| 21 | a | 1101 | CLA | C1A-CHA | 2.09 | 1.51 | 1.43 |
| 21 | 2 | 1021 | CLA | C3D-C4D | -2.09 | 1.39 | 1.44 |
| 21 | 2 | 1231 | CLA | C1A-CHA | 2.08 | 1.51 | 1.43 |
| 21 | 1 | 1133 | CLA | C1A-CHA | 2.08 | 1.51 | 1.43 |
| 21 | b | 1021 | CLA | C3B-C2B | -2.08 | 1.37 | 1.40 |
| 21 | k | 1401 | CLA | C3B-C2B | -2.08 | 1.37 | 1.40 |
| 21 | l | 1501 | CLA | C1A-CHA | 2.08 | 1.51 | 1.43 |
| 21 | B | 1021 | CLA | C1A-CHA | 2.08 | 1.51 | 1.43 |
| 21 | B | 1223 | CLA | C1A-CHA | 2.08 | 1.51 | 1.43 |
| 21 | b | 1213 | CLA | C1A-CHA | 2.08 | 1.51 | 1.43 |
| 21 | B | 1203 | CLA | C1A-CHA | 2.08 | 1.51 | 1.43 |
| 21 | a | 1139 | CLA | C1A-CHA | 2.08 | 1.51 | 1.43 |
| 21 | 1 | 1118 | CLA | C1A-CHA | 2.08 | 1.51 | 1.43 |
| 21 | 8 | 1402 | CLA | C1A-CHA | 2.08 | 1.51 | 1.43 |
| 21 | A | 1011 | CLA | C3D-C4D | -2.08 | 1.39 | 1.44 |
| 21 | F | 1302 | CLA | C1A-CHA | 2.08 | 1.51 | 1.43 |
| 21 | F | 1301 | CLA | C1A-CHA | 2.08 | 1.51 | 1.43 |
| 21 | 1 | 1801 | CLA | C1A-CHA | 2.08 | 1.51 | 1.43 |
| 21 | b | 1224 | CLA | C1A-CHA | 2.07 | 1.51 | 1.43 |
| 28 | h | 4020 | 45D | O01-C17 | -2.07 | 1.18 | 1.23 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 30 | b | 4011 | ECH | C1-C6 | -2.07 | 1.50 | 1.53 |
| 21 | B | 1218 | CLA | C1A-CHA | 2.07 | 1.51 | 1.43 |
| 21 | a | 1104 | CLA | C1A-CHA | 2.07 | 1.51 | 1.43 |
| 21 | A | 1102 | CLA | C1A-CHA | 2.07 | 1.51 | 1.43 |
| 21 | A | 1013 | CLA | C1A-CHA | 2.07 | 1.51 | 1.43 |
| 21 | b | 1201 | CLA | C1A-CHA | 2.07 | 1.51 | 1.43 |
| 21 | b | 1227 | CLA | C3B-C2B | -2.07 | 1.37 | 1.40 |
| 21 | 1 | 1104 | CLA | C1A-CHA | 2.07 | 1.51 | 1.43 |
| 21 | a | 1137 | CLA | C1A-CHA | 2.07 | 1.51 | 1.43 |
| 21 | a | 1117 | CLA | C1A-CHA | 2.07 | 1.51 | 1.43 |
| 21 | 2 | 1235 | CLA | C1A-CHA | 2.07 | 1.51 | 1.43 |
| 21 | 2 | 1203 | CLA | C1A-CHA | 2.07 | 1.51 | 1.43 |
| 21 | 2 | 1230 | CLA | C1A-CHA | 2.07 | 1.51 | 1.43 |
| 21 | 1 | 1104 | CLA | C3B-C2B | -2.07 | 1.37 | 1.40 |
| 21 | A | 1122 | CLA | C1A-CHA | 2.07 | 1.51 | 1.43 |
| 21 | B | 1228 | CLA | C1A-CHA | 2.07 | 1.51 | 1.43 |
| 21 | 2 | 1234 | CLA | C1A-CHA | 2.07 | 1.51 | 1.43 |
| 21 | B | 1240 | CLA | C1A-CHA | 2.06 | 1.51 | 1.43 |
| 35 | L | 6001 | LMT | O3B-C3B | -2.06 | 1.38 | 1.43 |
| 21 | 6 | 1301 | CLA | C3B-C2B | -2.06 | 1.37 | 1.40 |
| 21 | b | 1222 | CLA | C3B-C2B | -2.06 | 1.37 | 1.40 |
| 21 | A | 1139 | CLA | C1A-CHA | 2.06 | 1.51 | 1.43 |
| 21 | b | 1212 | CLA | C1A-CHA | 2.06 | 1.51 | 1.43 |
| 21 | a | 1114 | CLA | C1A-CHA | 2.06 | 1.51 | 1.43 |
| 21 | A | 1111 | CLA | C1A-CHA | 2.06 | 1.51 | 1.43 |
| 21 | 2 | 1021 | CLA | C1A-CHA | 2.06 | 1.51 | 1.43 |
| 21 | 1 | 1130 | CLA | C1A-CHA | 2.06 | 1.51 | 1.43 |
| 21 | b | 1221 | CLA | C1A-CHA | 2.06 | 1.51 | 1.43 |
| 21 | B | 1201 | CLA | C1A-CHA | 2.06 | 1.51 | 1.43 |
| 21 | 1 | 1126 | CLA | C1A-CHA | 2.06 | 1.51 | 1.43 |
| 21 | b | 1210 | CLA | C3B-C2B | -2.06 | 1.37 | 1.40 |
| 21 | A | 1108 | CLA | C1A-CHA | 2.06 | 1.51 | 1.43 |
| 21 | b | 1231 | CLA | C1A-CHA | 2.06 | 1.51 | 1.43 |
| 21 | A | 1136 | CLA | C1A-CHA | 2.06 | 1.51 | 1.43 |
| 21 | A | 1801 | CLA | C1A-CHA | 2.06 | 1.51 | 1.43 |
| 21 | B | 1222 | CLA | C1A-CHA | 2.06 | 1.51 | 1.43 |
| 21 | a | 1106 | CLA | C1A-CHA | 2.06 | 1.51 | 1.43 |
| 21 | a | 1127 | CLA | C1A-CHA | 2.06 | 1.51 | 1.43 |
| 21 | a | 1126 | CLA | C1A-CHA | 2.06 | 1.51 | 1.43 |
| 21 | 8 | 1401 | CLA | C1A-CHA | 2.06 | 1.51 | 1.43 |
| 21 | B | 1021 | CLA | C3B-C2B | -2.06 | 1.37 | 1.40 |
| 21 | A | 1104 | CLA | C1A-CHA | 2.06 | 1.51 | 1.43 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|----------------------|-------|-------------|----------|
| 21 | a | 1118 | CLA | C3B-C2B | -2.06 | 1.37 | 1.40 |
| 21 | f | 1302 | CLA | C1A-CHA | 2.05 | 1.51 | 1.43 |
| 21 | b | 1216 | CLA | C1A-CHA | 2.05 | 1.51 | 1.43 |
| 21 | B | 1224 | CLA | C3B-C2B | -2.05 | 1.37 | 1.40 |
| 21 | B | 1212 | CLA | C1A-CHA | 2.05 | 1.51 | 1.43 |
| 21 | b | 1232 | CLA | C1A-CHA | 2.05 | 1.51 | 1.43 |
| 21 | 2 | 1211 | CLA | C1A-CHA | 2.05 | 1.51 | 1.43 |
| 26 | K | 5009 | LMG | O1-C1 | 2.05 | 1.43 | 1.40 |
| 21 | K | 1402 | CLA | C1A-CHA | 2.05 | 1.51 | 1.43 |
| 35 | F | 6001 | LMT | O4 ² -C4B | -2.05 | 1.38 | 1.43 |
| 21 | 1 | 1134 | CLA | C1A-CHA | 2.05 | 1.51 | 1.43 |
| 21 | j | 1303 | CLA | C1A-CHA | 2.05 | 1.51 | 1.43 |
| 21 | A | 1127 | CLA | C1A-CHA | 2.05 | 1.51 | 1.43 |
| 21 | A | 1130 | CLA | C1A-CHA | 2.05 | 1.51 | 1.43 |
| 21 | a | 1113 | CLA | C1A-CHA | 2.05 | 1.51 | 1.43 |
| 21 | A | 1107 | CLA | C3B-C2B | -2.04 | 1.37 | 1.40 |
| 21 | A | 1118 | CLA | C3B-C2B | -2.04 | 1.37 | 1.40 |
| 21 | B | 1218 | CLA | C3B-C2B | -2.04 | 1.37 | 1.40 |
| 21 | 2 | 1240 | CLA | C1A-CHA | 2.04 | 1.51 | 1.43 |
| 21 | 1 | 1124 | CLA | C1A-CHA | 2.04 | 1.51 | 1.43 |
| 21 | B | 1213 | CLA | C3B-C2B | -2.04 | 1.37 | 1.40 |
| 21 | A | 1135 | CLA | C3B-C2B | -2.04 | 1.37 | 1.40 |
| 21 | B | 1231 | CLA | C1A-CHA | 2.04 | 1.51 | 1.43 |
| 21 | 1 | 1103 | CLA | C1A-CHA | 2.04 | 1.51 | 1.43 |
| 21 | a | 1131 | CLA | C1A-CHA | 2.04 | 1.51 | 1.43 |
| 21 | a | 1013 | CLA | C1A-CHA | 2.04 | 1.51 | 1.43 |
| 21 | b | 1223 | CLA | C1A-CHA | 2.04 | 1.51 | 1.43 |
| 21 | 1 | 1114 | CLA | C1A-CHA | 2.04 | 1.51 | 1.43 |
| 21 | 2 | 1218 | CLA | C1A-CHA | 2.04 | 1.51 | 1.43 |
| 21 | A | 1118 | CLA | C1A-CHA | 2.04 | 1.51 | 1.43 |
| 21 | a | 1121 | CLA | C3B-C2B | -2.04 | 1.37 | 1.40 |
| 21 | 1 | 1105 | CLA | C1A-CHA | 2.04 | 1.51 | 1.43 |
| 21 | B | 1221 | CLA | C1A-CHA | 2.04 | 1.51 | 1.43 |
| 21 | a | 1013 | CLA | C3B-C2B | -2.04 | 1.37 | 1.40 |
| 21 | b | 1211 | CLA | C3B-C2B | -2.03 | 1.37 | 1.40 |
| 21 | 1 | 1124 | CLA | C3B-C2B | -2.03 | 1.37 | 1.40 |
| 21 | B | 1226 | CLA | C3D-C4D | -2.03 | 1.39 | 1.44 |
| 21 | 0 | 1502 | CLA | C3B-C2B | -2.03 | 1.37 | 1.40 |
| 21 | 2 | 1210 | CLA | C1A-CHA | 2.03 | 1.51 | 1.43 |
| 21 | a | 1119 | CLA | C3B-C2B | -2.03 | 1.37 | 1.40 |
| 21 | 2 | 1226 | CLA | C1A-CHA | 2.03 | 1.51 | 1.43 |
| 21 | A | 1103 | CLA | MG-NC | 2.03 | 2.11 | 2.06 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | 2 | 1214 | CLA | C1A-CHA | 2.03 | 1.51 | 1.43 |
| 21 | a | 1113 | CLA | C3B-C2B | -2.03 | 1.37 | 1.40 |
| 21 | A | 1140 | CLA | C1A-CHA | 2.03 | 1.51 | 1.43 |
| 21 | b | 1203 | CLA | C1A-CHA | 2.03 | 1.51 | 1.43 |
| 21 | 1 | 1107 | CLA | C3B-C2B | -2.03 | 1.37 | 1.40 |
| 21 | A | 1011 | CLA | C3B-C2B | -2.03 | 1.37 | 1.40 |
| 21 | 2 | 1211 | CLA | C3B-C2B | -2.03 | 1.37 | 1.40 |
| 21 | b | 1231 | CLA | C3B-C2B | -2.03 | 1.37 | 1.40 |
| 21 | b | 1021 | CLA | C1A-CHA | 2.02 | 1.51 | 1.43 |
| 21 | B | 1235 | CLA | C1A-CHA | 2.02 | 1.51 | 1.43 |
| 21 | 1 | 1103 | CLA | C3B-C2B | -2.02 | 1.37 | 1.40 |
| 21 | b | 1021 | CLA | C3D-C4D | -2.02 | 1.39 | 1.44 |
| 21 | 1 | 1116 | CLA | C1A-CHA | 2.02 | 1.51 | 1.43 |
| 21 | B | 1229 | CLA | C1A-CHA | 2.02 | 1.51 | 1.43 |
| 21 | A | 1103 | CLA | C3B-C2B | -2.02 | 1.37 | 1.40 |
| 21 | 1 | 1125 | CLA | C3B-C2B | -2.02 | 1.37 | 1.40 |
| 21 | 2 | 1224 | CLA | C1A-CHA | 2.02 | 1.51 | 1.43 |
| 21 | 1 | 1108 | CLA | C1A-CHA | 2.02 | 1.51 | 1.43 |
| 21 | A | 1129 | CLA | C1A-CHA | 2.02 | 1.51 | 1.43 |
| 21 | a | 1140 | CLA | C3B-C2B | -2.02 | 1.37 | 1.40 |
| 21 | b | 1209 | CLA | C3B-C2B | -2.02 | 1.37 | 1.40 |
| 21 | A | 1137 | CLA | MG-NC | 2.02 | 2.11 | 2.06 |
| 21 | a | 1107 | CLA | C1A-CHA | 2.02 | 1.51 | 1.43 |
| 21 | b | 1224 | CLA | C3B-C2B | -2.02 | 1.37 | 1.40 |
| 21 | A | 1101 | CLA | C1A-CHA | 2.02 | 1.51 | 1.43 |
| 21 | A | 1013 | CLA | MG-NC | 2.02 | 2.11 | 2.06 |
| 21 | a | 1128 | CLA | C1A-CHA | 2.02 | 1.51 | 1.43 |
| 21 | 2 | 1205 | CLA | C1A-CHA | 2.02 | 1.51 | 1.43 |
| 21 | B | 1202 | CLA | C1A-CHA | 2.02 | 1.51 | 1.43 |
| 21 | a | 1133 | CLA | C1A-CHA | 2.02 | 1.51 | 1.43 |
| 21 | 0 | 1501 | CLA | C1A-CHA | 2.02 | 1.51 | 1.43 |
| 21 | A | 1116 | CLA | C1A-CHA | 2.01 | 1.51 | 1.43 |
| 21 | B | 1234 | CLA | C1A-CHA | 2.01 | 1.51 | 1.43 |
| 21 | A | 1013 | CLA | C3B-C2B | -2.01 | 1.37 | 1.40 |
| 21 | 1 | 1135 | CLA | C3B-C2B | -2.01 | 1.37 | 1.40 |
| 21 | 6 | 1301 | CLA | C1A-CHA | 2.01 | 1.51 | 1.43 |
| 21 | b | 1240 | CLA | C3B-C2B | -2.01 | 1.37 | 1.40 |
| 28 | h | 4020 | 45D | C23-C19 | 2.01 | 1.39 | 1.33 |
| 21 | B | 1225 | CLA | C1A-CHA | 2.01 | 1.51 | 1.43 |
| 21 | 2 | 1219 | CLA | C1A-CHA | 2.01 | 1.51 | 1.43 |
| 21 | A | 1109 | CLA | C1A-CHA | 2.01 | 1.51 | 1.43 |
| 21 | A | 1135 | CLA | C1A-CHA | 2.01 | 1.51 | 1.43 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|-------|-------------|----------|
| 21 | a | 1118 | CLA | C1A-CHA | 2.01 | 1.51 | 1.43 |
| 21 | b | 1239 | CLA | C1A-CHA | 2.01 | 1.51 | 1.43 |
| 21 | 1 | 1137 | CLA | C1A-CHA | 2.01 | 1.51 | 1.43 |
| 21 | b | 1211 | CLA | C1A-CHA | 2.01 | 1.51 | 1.43 |
| 21 | 1 | 1122 | CLA | C3B-C2B | -2.00 | 1.37 | 1.40 |
| 21 | B | 1236 | CLA | C1A-CHA | 2.00 | 1.51 | 1.43 |
| 21 | b | 1023 | CLA | MG-NC | 2.00 | 2.11 | 2.06 |
| 21 | 2 | 1236 | CLA | C1A-CHA | 2.00 | 1.51 | 1.43 |
| 21 | 2 | 1216 | CLA | C1A-CHA | 2.00 | 1.51 | 1.43 |
| 21 | b | 1215 | CLA | C1A-CHA | 2.00 | 1.51 | 1.43 |
| 21 | L | 1503 | CLA | C1A-CHA | 2.00 | 1.51 | 1.43 |
| 21 | A | 1113 | CLA | C1A-CHA | 2.00 | 1.51 | 1.43 |
| 21 | 1 | 1121 | CLA | C3B-C2B | -2.00 | 1.37 | 1.40 |
| 21 | 1 | 1128 | CLA | C1A-CHA | 2.00 | 1.51 | 1.43 |
| 26 | 1 | 5002 | LMG | C22-C21 | -2.00 | 1.33 | 1.49 |
| 21 | B | 1227 | CLA | C1A-CHA | 2.00 | 1.51 | 1.43 |
| 21 | B | 1230 | CLA | C1A-CHA | 2.00 | 1.51 | 1.43 |

All (4895) bond angle outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|--------|-------------|----------|
| 34 | F | 4016 | ZEX | C38-C24-C25 | -50.09 | 31.10 | 110.87 |
| 34 | J | 4015 | ZEX | C38-C24-C25 | -49.79 | 31.58 | 110.87 |
| 34 | j | 4015 | ZEX | C38-C24-C25 | -49.78 | 31.59 | 110.87 |
| 34 | 7 | 4015 | ZEX | C38-C24-C25 | -49.71 | 31.71 | 110.87 |
| 24 | a | 4019 | BCR | C16-C15-C14 | 16.68 | 157.64 | 123.47 |
| 24 | b | 4018 | BCR | C16-C15-C14 | 16.24 | 156.75 | 123.47 |
| 24 | a | 4002 | BCR | C16-C15-C14 | 15.53 | 155.29 | 123.47 |
| 24 | 1 | 4019 | BCR | C16-C15-C14 | 15.42 | 155.06 | 123.47 |
| 24 | i | 4018 | BCR | C16-C15-C14 | 14.93 | 154.06 | 123.47 |
| 24 | a | 4001 | BCR | C16-C15-C14 | 14.82 | 153.83 | 123.47 |
| 24 | A | 4019 | BCR | C16-C15-C14 | 14.62 | 153.42 | 123.47 |
| 24 | h | 4018 | BCR | C16-C15-C14 | 14.37 | 152.91 | 123.47 |
| 24 | 2 | 4005 | BCR | C16-C15-C14 | 14.28 | 152.73 | 123.47 |
| 24 | 9 | 4021 | BCR | C16-C15-C14 | 14.23 | 152.63 | 123.47 |
| 24 | 2 | 4018 | BCR | C11-C10-C9 | 14.19 | 147.57 | 127.31 |
| 24 | 1 | 4007 | BCR | C16-C15-C14 | 14.10 | 152.36 | 123.47 |
| 24 | B | 4018 | BCR | C16-C15-C14 | 14.08 | 152.32 | 123.47 |
| 24 | 2 | 4010 | BCR | C16-C15-C14 | 14.08 | 152.32 | 123.47 |
| 24 | a | 4008 | BCR | C16-C15-C14 | 14.06 | 152.28 | 123.47 |
| 24 | A | 4019 | BCR | C11-C10-C9 | 14.06 | 147.38 | 127.31 |
| 24 | 1 | 4001 | BCR | C16-C15-C14 | 13.84 | 151.83 | 123.47 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 24 | B | 4005 | BCR | C16-C15-C14 | 13.74 | 151.62 | 123.47 |
| 24 | 8 | 4001 | BCR | C16-C15-C14 | 13.71 | 151.55 | 123.47 |
| 24 | 1 | 4002 | BCR | C16-C15-C14 | 13.62 | 151.38 | 123.47 |
| 24 | a | 4003 | BCR | C16-C15-C14 | 13.62 | 151.38 | 123.47 |
| 24 | 1 | 4012 | BCR | C16-C15-C14 | 13.49 | 151.11 | 123.47 |
| 24 | 1 | 4008 | BCR | C16-C15-C14 | 13.39 | 150.90 | 123.47 |
| 24 | b | 4010 | BCR | C21-C20-C19 | 13.37 | 164.93 | 123.22 |
| 24 | b | 4017 | BCR | C16-C15-C14 | 13.36 | 150.83 | 123.47 |
| 24 | 2 | 4010 | BCR | C21-C20-C19 | 13.26 | 164.61 | 123.22 |
| 24 | 2 | 4014 | BCR | C21-C20-C19 | 13.22 | 164.48 | 123.22 |
| 24 | 2 | 4010 | BCR | C11-C10-C9 | 13.20 | 146.15 | 127.31 |
| 24 | 1 | 4002 | BCR | C21-C20-C19 | 13.19 | 164.37 | 123.22 |
| 24 | 1 | 4003 | BCR | C16-C15-C14 | 13.14 | 150.40 | 123.47 |
| 24 | B | 4017 | BCR | C11-C10-C9 | 13.08 | 145.98 | 127.31 |
| 24 | k | 4001 | BCR | C16-C15-C14 | 13.05 | 150.21 | 123.47 |
| 24 | B | 4004 | BCR | C16-C15-C14 | 13.05 | 150.20 | 123.47 |
| 24 | 0 | 4022 | BCR | C21-C20-C19 | 13.03 | 163.88 | 123.22 |
| 24 | 1 | 4003 | BCR | C21-C20-C19 | 13.02 | 163.86 | 123.22 |
| 24 | B | 4017 | BCR | C16-C15-C14 | 12.99 | 150.07 | 123.47 |
| 24 | 2 | 4014 | BCR | C11-C10-C9 | 12.96 | 145.81 | 127.31 |
| 24 | 6 | 4016 | BCR | C11-C10-C9 | 12.96 | 145.81 | 127.31 |
| 24 | 0 | 4022 | BCR | C11-C10-C9 | 12.96 | 145.81 | 127.31 |
| 24 | 2 | 4017 | BCR | C11-C10-C9 | 12.95 | 145.79 | 127.31 |
| 24 | B | 4018 | BCR | C21-C20-C19 | 12.92 | 163.53 | 123.22 |
| 24 | 2 | 4004 | BCR | C16-C15-C14 | 12.92 | 149.93 | 123.47 |
| 24 | j | 4013 | BCR | C21-C20-C19 | 12.84 | 163.28 | 123.22 |
| 24 | b | 4014 | BCR | C21-C20-C19 | 12.80 | 163.16 | 123.22 |
| 24 | K | 4001 | BCR | C16-C15-C14 | 12.79 | 149.68 | 123.47 |
| 24 | A | 4003 | BCR | C21-C20-C19 | 12.76 | 163.04 | 123.22 |
| 24 | b | 4017 | BCR | C11-C10-C9 | 12.74 | 145.50 | 127.31 |
| 24 | 2 | 4004 | BCR | C21-C20-C19 | 12.72 | 162.92 | 123.22 |
| 24 | 8 | 4001 | BCR | C21-C20-C19 | 12.72 | 162.90 | 123.22 |
| 24 | a | 4012 | BCR | C16-C15-C14 | 12.70 | 149.49 | 123.47 |
| 24 | b | 4004 | BCR | C11-C10-C9 | 12.65 | 145.36 | 127.31 |
| 24 | l | 4022 | BCR | C21-C20-C19 | 12.58 | 162.49 | 123.22 |
| 24 | 6 | 4016 | BCR | C16-C15-C14 | 12.57 | 149.22 | 123.47 |
| 24 | A | 4012 | BCR | C21-C20-C19 | 12.53 | 162.33 | 123.22 |
| 24 | 7 | 4013 | BCR | C21-C20-C19 | 12.50 | 162.22 | 123.22 |
| 24 | A | 4001 | BCR | C21-C20-C19 | 12.49 | 162.20 | 123.22 |
| 24 | B | 4014 | BCR | C21-C20-C19 | 12.48 | 162.17 | 123.22 |
| 24 | l | 4022 | BCR | C11-C10-C9 | 12.44 | 145.06 | 127.31 |
| 24 | J | 4013 | BCR | C16-C15-C14 | 12.43 | 148.94 | 123.47 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 24 | 6 | 4016 | BCR | C21-C20-C19 | 12.40 | 161.91 | 123.22 |
| 24 | a | 4019 | BCR | C11-C10-C9 | 12.39 | 145.00 | 127.31 |
| 24 | a | 4002 | BCR | C11-C10-C9 | 12.37 | 144.96 | 127.31 |
| 24 | B | 4010 | BCR | C21-C20-C19 | 12.33 | 161.68 | 123.22 |
| 24 | B | 4004 | BCR | C21-C20-C19 | 12.32 | 161.66 | 123.22 |
| 24 | f | 4016 | BCR | C21-C20-C19 | 12.31 | 161.62 | 123.22 |
| 24 | 0 | 4019 | BCR | C16-C15-C14 | 12.26 | 148.60 | 123.47 |
| 24 | 7 | 4013 | BCR | C16-C15-C14 | 12.24 | 148.56 | 123.47 |
| 24 | 1 | 4019 | BCR | C21-C20-C19 | 12.22 | 161.36 | 123.22 |
| 24 | a | 4007 | BCR | C21-C20-C19 | 12.19 | 161.27 | 123.22 |
| 24 | 9 | 4021 | BCR | C11-C10-C9 | 12.14 | 144.64 | 127.31 |
| 24 | 2 | 4017 | BCR | C16-C15-C14 | 12.13 | 148.32 | 123.47 |
| 24 | b | 4005 | BCR | C16-C15-C14 | 12.11 | 148.28 | 123.47 |
| 24 | 1 | 4012 | BCR | C21-C20-C19 | 12.06 | 160.85 | 123.22 |
| 24 | J | 4013 | BCR | C11-C10-C9 | 12.05 | 144.50 | 127.31 |
| 24 | b | 4010 | BCR | C16-C15-C14 | 12.04 | 148.14 | 123.47 |
| 24 | b | 4004 | BCR | C21-C20-C19 | 12.03 | 160.77 | 123.22 |
| 24 | a | 4001 | BCR | C21-C20-C19 | 12.02 | 160.72 | 123.22 |
| 24 | i | 4018 | BCR | C11-C10-C9 | 12.02 | 144.46 | 127.31 |
| 24 | 1 | 4001 | BCR | C11-C10-C9 | 12.02 | 144.46 | 127.31 |
| 24 | b | 4014 | BCR | C11-C10-C9 | 12.00 | 144.43 | 127.31 |
| 24 | 2 | 4005 | BCR | C11-C10-C9 | 11.93 | 144.33 | 127.31 |
| 24 | 1 | 4008 | BCR | C21-C20-C19 | 11.91 | 160.39 | 123.22 |
| 24 | B | 4010 | BCR | C16-C15-C14 | 11.91 | 147.86 | 123.47 |
| 24 | f | 4016 | BCR | C11-C10-C9 | 11.89 | 144.28 | 127.31 |
| 24 | 7 | 4013 | BCR | C11-C10-C9 | 11.89 | 144.28 | 127.31 |
| 21 | b | 1023 | CLA | C4A-NA-C1A | 11.84 | 112.03 | 106.71 |
| 24 | 2 | 4018 | BCR | C16-C15-C14 | 11.82 | 147.68 | 123.47 |
| 24 | B | 4014 | BCR | C11-C10-C9 | 11.81 | 144.17 | 127.31 |
| 24 | A | 4001 | BCR | C16-C15-C14 | 11.76 | 147.56 | 123.47 |
| 24 | A | 4019 | BCR | C21-C20-C19 | 11.75 | 159.90 | 123.22 |
| 24 | b | 4004 | BCR | C16-C15-C14 | 11.74 | 147.53 | 123.47 |
| 24 | I | 4018 | BCR | C16-C15-C14 | 11.74 | 147.53 | 123.47 |
| 24 | b | 4005 | BCR | C11-C10-C9 | 11.74 | 144.06 | 127.31 |
| 24 | a | 4003 | BCR | C21-C20-C19 | 11.73 | 159.81 | 123.22 |
| 24 | B | 4010 | BCR | C11-C10-C9 | 11.63 | 143.91 | 127.31 |
| 24 | k | 4001 | BCR | C21-C20-C19 | 11.62 | 159.47 | 123.22 |
| 24 | a | 4008 | BCR | C11-C10-C9 | 11.56 | 143.81 | 127.31 |
| 24 | a | 4001 | BCR | C11-C10-C9 | 11.56 | 143.80 | 127.31 |
| 24 | B | 4018 | BCR | C11-C10-C9 | 11.55 | 143.80 | 127.31 |
| 21 | A | 1011 | CLA | C4A-NA-C1A | 11.55 | 111.90 | 106.71 |
| 24 | h | 4018 | BCR | C11-C10-C9 | 11.54 | 143.78 | 127.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | a | 1011 | CLA | C4A-NA-C1A | 11.54 | 111.89 | 106.71 |
| 21 | 2 | 1023 | CLA | C4A-NA-C1A | 11.54 | 111.89 | 106.71 |
| 24 | j | 4013 | BCR | C11-C10-C9 | 11.53 | 143.76 | 127.31 |
| 24 | a | 4002 | BCR | C21-C20-C19 | 11.52 | 159.17 | 123.22 |
| 24 | l | 4022 | BCR | C16-C15-C14 | 11.50 | 147.04 | 123.47 |
| 24 | A | 4002 | BCR | C16-C15-C14 | 11.48 | 147.00 | 123.47 |
| 24 | a | 4007 | BCR | C16-C15-C14 | 11.48 | 147.00 | 123.47 |
| 24 | A | 4008 | BCR | C21-C20-C19 | 11.48 | 159.04 | 123.22 |
| 24 | j | 4013 | BCR | C16-C15-C14 | 11.47 | 146.98 | 123.47 |
| 24 | L | 4022 | BCR | C16-C15-C14 | 11.47 | 146.97 | 123.47 |
| 24 | a | 4003 | BCR | C11-C10-C9 | 11.46 | 143.67 | 127.31 |
| 24 | A | 4003 | BCR | C16-C15-C14 | 11.42 | 146.86 | 123.47 |
| 24 | 2 | 4004 | BCR | C11-C10-C9 | 11.40 | 143.58 | 127.31 |
| 24 | 1 | 4007 | BCR | C21-C20-C19 | 11.39 | 158.76 | 123.22 |
| 24 | J | 4013 | BCR | C21-C20-C19 | 11.37 | 158.71 | 123.22 |
| 24 | A | 4012 | BCR | C16-C15-C14 | 11.34 | 146.71 | 123.47 |
| 21 | 6 | 1302 | CLA | C4A-NA-C1A | 11.33 | 111.80 | 106.71 |
| 24 | f | 4016 | BCR | C16-C15-C14 | 11.33 | 146.68 | 123.47 |
| 24 | 2 | 4014 | BCR | C16-C15-C14 | 11.33 | 146.67 | 123.47 |
| 24 | 1 | 4001 | BCR | C21-C20-C19 | 11.31 | 158.52 | 123.22 |
| 21 | a | 1109 | CLA | C4A-NA-C1A | 11.29 | 111.78 | 106.71 |
| 24 | A | 4002 | BCR | C21-C20-C19 | 11.29 | 158.45 | 123.22 |
| 24 | L | 4022 | BCR | C21-C20-C19 | 11.29 | 158.44 | 123.22 |
| 24 | l | 4019 | BCR | C21-C20-C19 | 11.28 | 158.41 | 123.22 |
| 21 | a | 1126 | CLA | C4A-NA-C1A | 11.27 | 111.77 | 106.71 |
| 24 | 2 | 4005 | BCR | C21-C20-C19 | 11.25 | 158.31 | 123.22 |
| 21 | 2 | 1201 | CLA | C4A-NA-C1A | 11.24 | 111.76 | 106.71 |
| 24 | L | 4022 | BCR | C11-C10-C9 | 11.23 | 143.34 | 127.31 |
| 24 | I | 4018 | BCR | C11-C10-C9 | 11.21 | 143.31 | 127.31 |
| 21 | 1 | 1012 | CLA | C4A-NA-C1A | 11.19 | 111.74 | 106.71 |
| 21 | 1 | 1013 | CLA | C4A-NA-C1A | 11.19 | 111.74 | 106.71 |
| 24 | b | 4014 | BCR | C16-C15-C14 | 11.17 | 146.35 | 123.47 |
| 21 | J | 1302 | CLA | C4A-NA-C1A | 11.13 | 111.71 | 106.71 |
| 24 | K | 4001 | BCR | C21-C20-C19 | 11.09 | 157.84 | 123.22 |
| 21 | B | 1235 | CLA | C4A-NA-C1A | 11.09 | 111.69 | 106.71 |
| 21 | B | 1021 | CLA | C4A-NA-C1A | 11.08 | 111.69 | 106.71 |
| 21 | 1 | 1011 | CLA | C4A-NA-C1A | 11.07 | 111.68 | 106.71 |
| 24 | A | 4003 | BCR | C11-C10-C9 | 11.04 | 143.06 | 127.31 |
| 24 | a | 4012 | BCR | C21-C20-C19 | 11.02 | 157.62 | 123.22 |
| 24 | b | 4018 | BCR | C21-C20-C19 | 11.01 | 157.56 | 123.22 |
| 24 | 2 | 4011 | BCR | C21-C20-C19 | 10.97 | 157.46 | 123.22 |
| 21 | b | 1202 | CLA | C4A-NA-C1A | 10.96 | 111.63 | 106.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 24 | 0 | 4019 | BCR | C21-C20-C19 | 10.95 | 157.40 | 123.22 |
| 24 | 1 | 4003 | BCR | C11-C10-C9 | 10.93 | 142.91 | 127.31 |
| 21 | b | 1230 | CLA | C4A-NA-C1A | 10.93 | 111.62 | 106.71 |
| 24 | h | 4018 | BCR | C20-C19-C18 | 10.89 | 157.01 | 126.42 |
| 21 | a | 1102 | CLA | C4A-NA-C1A | 10.86 | 111.59 | 106.71 |
| 21 | A | 1112 | CLA | C4A-NA-C1A | 10.86 | 111.59 | 106.71 |
| 21 | B | 1023 | CLA | C4A-NA-C1A | 10.85 | 111.59 | 106.71 |
| 24 | k | 4001 | BCR | C11-C10-C9 | 10.84 | 142.79 | 127.31 |
| 24 | I | 4018 | BCR | C20-C19-C18 | 10.84 | 156.86 | 126.42 |
| 24 | A | 4007 | BCR | C16-C15-C14 | 10.83 | 145.67 | 123.47 |
| 21 | 1 | 1103 | CLA | C4A-NA-C1A | 10.81 | 111.57 | 106.71 |
| 21 | a | 1013 | CLA | C4A-NA-C1A | 10.79 | 111.56 | 106.71 |
| 24 | 1 | 4007 | BCR | C11-C10-C9 | 10.79 | 142.70 | 127.31 |
| 21 | 1 | 1112 | CLA | C4A-NA-C1A | 10.79 | 111.56 | 106.71 |
| 21 | b | 1221 | CLA | C4A-NA-C1A | 10.77 | 111.55 | 106.71 |
| 24 | 1 | 4012 | BCR | C11-C10-C9 | 10.76 | 142.66 | 127.31 |
| 21 | B | 1217 | CLA | C4A-NA-C1A | 10.73 | 111.53 | 106.71 |
| 21 | 2 | 1213 | CLA | C4A-NA-C1A | 10.73 | 111.53 | 106.71 |
| 21 | a | 1112 | CLA | C4A-NA-C1A | 10.73 | 111.53 | 106.71 |
| 24 | B | 4005 | BCR | C21-C20-C19 | 10.72 | 156.68 | 123.22 |
| 21 | B | 1207 | CLA | C4A-NA-C1A | 10.72 | 111.53 | 106.71 |
| 21 | j | 1302 | CLA | C4A-NA-C1A | 10.71 | 111.52 | 106.71 |
| 21 | b | 1231 | CLA | C4A-NA-C1A | 10.69 | 111.51 | 106.71 |
| 24 | l | 4019 | BCR | C16-C15-C14 | 10.69 | 145.38 | 123.47 |
| 24 | L | 4019 | BCR | C21-C20-C19 | 10.69 | 156.58 | 123.22 |
| 24 | A | 4008 | BCR | C16-C15-C14 | 10.69 | 145.37 | 123.47 |
| 21 | 2 | 1216 | CLA | C4A-NA-C1A | 10.68 | 111.51 | 106.71 |
| 21 | 1 | 1119 | CLA | C4A-NA-C1A | 10.66 | 111.50 | 106.71 |
| 21 | 2 | 1232 | CLA | C4A-NA-C1A | 10.66 | 111.50 | 106.71 |
| 24 | A | 4007 | BCR | C21-C20-C19 | 10.66 | 156.49 | 123.22 |
| 21 | A | 1123 | CLA | C4A-NA-C1A | 10.65 | 111.49 | 106.71 |
| 21 | a | 1106 | CLA | C4A-NA-C1A | 10.64 | 111.49 | 106.71 |
| 21 | B | 1203 | CLA | C4A-NA-C1A | 10.63 | 111.49 | 106.71 |
| 21 | 1 | 1126 | CLA | C4A-NA-C1A | 10.63 | 111.49 | 106.71 |
| 24 | A | 4002 | BCR | C11-C10-C9 | 10.63 | 142.48 | 127.31 |
| 21 | a | 1122 | CLA | C4A-NA-C1A | 10.61 | 111.48 | 106.71 |
| 21 | 2 | 1021 | CLA | C4A-NA-C1A | 10.61 | 111.48 | 106.71 |
| 21 | A | 1139 | CLA | C4A-NA-C1A | 10.60 | 111.47 | 106.71 |
| 21 | 2 | 1212 | CLA | C4A-NA-C1A | 10.58 | 111.46 | 106.71 |
| 21 | A | 1108 | CLA | C4A-NA-C1A | 10.58 | 111.46 | 106.71 |
| 21 | 2 | 1206 | CLA | C4A-NA-C1A | 10.57 | 111.46 | 106.71 |
| 21 | 2 | 1205 | CLA | C4A-NA-C1A | 10.57 | 111.46 | 106.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | b | 1207 | CLA | C4A-NA-C1A | 10.57 | 111.46 | 106.71 |
| 24 | B | 4004 | BCR | C11-C10-C9 | 10.55 | 142.37 | 127.31 |
| 21 | J | 1303 | CLA | C4A-NA-C1A | 10.55 | 111.45 | 106.71 |
| 21 | k | 1402 | CLA | C4A-NA-C1A | 10.55 | 111.45 | 106.71 |
| 24 | l | 4019 | BCR | C11-C10-C9 | 10.55 | 142.36 | 127.31 |
| 24 | a | 4008 | BCR | C21-C20-C19 | 10.55 | 156.13 | 123.22 |
| 24 | K | 4001 | BCR | C11-C10-C9 | 10.54 | 142.36 | 127.31 |
| 21 | B | 1211 | CLA | C4A-NA-C1A | 10.53 | 111.44 | 106.71 |
| 21 | a | 1801 | CLA | C4A-NA-C1A | 10.52 | 111.43 | 106.71 |
| 21 | B | 1229 | CLA | C4A-NA-C1A | 10.51 | 111.43 | 106.71 |
| 24 | i | 4018 | BCR | C20-C19-C18 | 10.51 | 155.95 | 126.42 |
| 21 | l | 1139 | CLA | C4A-NA-C1A | 10.51 | 111.43 | 106.71 |
| 24 | A | 4012 | BCR | C11-C10-C9 | 10.50 | 142.30 | 127.31 |
| 21 | a | 1138 | CLA | C4A-NA-C1A | 10.50 | 111.43 | 106.71 |
| 24 | B | 4005 | BCR | C11-C10-C9 | 10.50 | 142.29 | 127.31 |
| 21 | b | 1211 | CLA | C4A-NA-C1A | 10.49 | 111.42 | 106.71 |
| 21 | 7 | 1302 | CLA | C4A-NA-C1A | 10.49 | 111.42 | 106.71 |
| 21 | A | 1126 | CLA | C4A-NA-C1A | 10.47 | 111.42 | 106.71 |
| 21 | l | 1133 | CLA | C4A-NA-C1A | 10.47 | 111.41 | 106.71 |
| 21 | 2 | 1223 | CLA | C4A-NA-C1A | 10.43 | 111.39 | 106.71 |
| 21 | 2 | 1022 | CLA | C4A-NA-C1A | 10.41 | 111.39 | 106.71 |
| 21 | b | 1224 | CLA | C4A-NA-C1A | 10.41 | 111.39 | 106.71 |
| 21 | b | 1240 | CLA | C4A-NA-C1A | 10.39 | 111.38 | 106.71 |
| 24 | l | 4008 | BCR | C11-C10-C9 | 10.39 | 142.13 | 127.31 |
| 21 | a | 1108 | CLA | C4A-NA-C1A | 10.37 | 111.37 | 106.71 |
| 21 | A | 1111 | CLA | C4A-NA-C1A | 10.37 | 111.37 | 106.71 |
| 21 | 2 | 1228 | CLA | C4A-NA-C1A | 10.36 | 111.36 | 106.71 |
| 24 | 0 | 4019 | BCR | C11-C10-C9 | 10.36 | 142.09 | 127.31 |
| 21 | B | 1206 | CLA | C4A-NA-C1A | 10.35 | 111.36 | 106.71 |
| 21 | b | 1021 | CLA | C4A-NA-C1A | 10.35 | 111.36 | 106.71 |
| 21 | B | 1215 | CLA | C4A-NA-C1A | 10.34 | 111.35 | 106.71 |
| 21 | l | 1125 | CLA | C4A-NA-C1A | 10.34 | 111.35 | 106.71 |
| 21 | k | 1401 | CLA | C4A-NA-C1A | 10.33 | 111.35 | 106.71 |
| 21 | a | 1103 | CLA | C4A-NA-C1A | 10.33 | 111.35 | 106.71 |
| 21 | b | 1206 | CLA | C4A-NA-C1A | 10.33 | 111.35 | 106.71 |
| 21 | l | 1102 | CLA | C4A-NA-C1A | 10.32 | 111.35 | 106.71 |
| 21 | b | 1220 | CLA | C4A-NA-C1A | 10.31 | 111.34 | 106.71 |
| 21 | l | 1109 | CLA | C4A-NA-C1A | 10.31 | 111.34 | 106.71 |
| 24 | b | 4005 | BCR | C21-C20-C19 | 10.31 | 155.38 | 123.22 |
| 21 | l | 1501 | CLA | C4A-NA-C1A | 10.30 | 111.34 | 106.71 |
| 21 | A | 1103 | CLA | C4A-NA-C1A | 10.29 | 111.33 | 106.71 |
| 21 | A | 1102 | CLA | C4A-NA-C1A | 10.28 | 111.33 | 106.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|--------|-------------|----------|
| 24 | 0 | 4022 | BCR | C16-C15-C14 | 10.28 | 144.52 | 123.47 |
| 21 | A | 1012 | CLA | C4A-NA-C1A | 10.27 | 111.33 | 106.71 |
| 24 | 2 | 4011 | BCR | C16-C15-C14 | 10.27 | 144.51 | 123.47 |
| 21 | 1 | 1118 | CLA | C4A-NA-C1A | 10.26 | 111.32 | 106.71 |
| 21 | 2 | 1235 | CLA | C4A-NA-C1A | 10.26 | 111.32 | 106.71 |
| 21 | 7 | 1303 | CLA | C4A-NA-C1A | 10.25 | 111.32 | 106.71 |
| 28 | h | 4020 | 45D | C42-C38-C36 | -10.25 | 112.69 | 127.31 |
| 21 | A | 1107 | CLA | C4A-NA-C1A | 10.24 | 111.31 | 106.71 |
| 21 | A | 1138 | CLA | C4A-NA-C1A | 10.23 | 111.31 | 106.71 |
| 21 | 2 | 1224 | CLA | C4A-NA-C1A | 10.23 | 111.31 | 106.71 |
| 24 | a | 4007 | BCR | C11-C10-C9 | 10.23 | 141.91 | 127.31 |
| 21 | 1 | 1110 | CLA | C4A-NA-C1A | 10.23 | 111.30 | 106.71 |
| 21 | B | 1232 | CLA | C4A-NA-C1A | 10.22 | 111.30 | 106.71 |
| 21 | B | 1205 | CLA | C4A-NA-C1A | 10.21 | 111.30 | 106.71 |
| 21 | a | 1134 | CLA | C4A-NA-C1A | 10.20 | 111.29 | 106.71 |
| 21 | b | 1201 | CLA | C4A-NA-C1A | 10.20 | 111.29 | 106.71 |
| 21 | 2 | 1209 | CLA | C4A-NA-C1A | 10.20 | 111.29 | 106.71 |
| 21 | B | 1202 | CLA | C4A-NA-C1A | 10.19 | 111.29 | 106.71 |
| 21 | 2 | 1202 | CLA | C4A-NA-C1A | 10.19 | 111.28 | 106.71 |
| 21 | B | 1222 | CLA | C4A-NA-C1A | 10.18 | 111.28 | 106.71 |
| 21 | 1 | 1134 | CLA | C4A-NA-C1A | 10.17 | 111.28 | 106.71 |
| 21 | L | 1501 | CLA | C4A-NA-C1A | 10.16 | 111.27 | 106.71 |
| 21 | 1 | 1104 | CLA | C4A-NA-C1A | 10.15 | 111.27 | 106.71 |
| 21 | a | 1115 | CLA | C4A-NA-C1A | 10.14 | 111.27 | 106.71 |
| 21 | a | 1124 | CLA | C4A-NA-C1A | 10.14 | 111.26 | 106.71 |
| 21 | b | 1228 | CLA | C4A-NA-C1A | 10.13 | 111.26 | 106.71 |
| 21 | B | 1230 | CLA | C4A-NA-C1A | 10.12 | 111.26 | 106.71 |
| 21 | 2 | 1240 | CLA | C4A-NA-C1A | 10.12 | 111.25 | 106.71 |
| 21 | a | 1136 | CLA | C4A-NA-C1A | 10.12 | 111.25 | 106.71 |
| 21 | B | 1224 | CLA | C4A-NA-C1A | 10.11 | 111.25 | 106.71 |
| 24 | a | 4019 | BCR | C21-C20-C19 | 10.11 | 154.78 | 123.22 |
| 21 | A | 1121 | CLA | C4A-NA-C1A | 10.11 | 111.25 | 106.71 |
| 21 | 2 | 1222 | CLA | C4A-NA-C1A | 10.11 | 111.25 | 106.71 |
| 21 | b | 1213 | CLA | C4A-NA-C1A | 10.10 | 111.25 | 106.71 |
| 24 | 2 | 4011 | BCR | C11-C10-C9 | 10.09 | 141.71 | 127.31 |
| 21 | 2 | 1230 | CLA | C4A-NA-C1A | 10.09 | 111.24 | 106.71 |
| 21 | B | 1209 | CLA | C4A-NA-C1A | 10.08 | 111.24 | 106.71 |
| 21 | B | 1221 | CLA | C4A-NA-C1A | 10.08 | 111.24 | 106.71 |
| 21 | a | 1125 | CLA | C4A-NA-C1A | 10.07 | 111.23 | 106.71 |
| 21 | a | 1139 | CLA | C4A-NA-C1A | 10.07 | 111.23 | 106.71 |
| 21 | 1 | 1113 | CLA | C4A-NA-C1A | 10.07 | 111.23 | 106.71 |
| 21 | 2 | 1207 | CLA | C4A-NA-C1A | 10.07 | 111.23 | 106.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | a | 1012 | CLA | C4A-NA-C1A | 10.07 | 111.23 | 106.71 |
| 21 | B | 1231 | CLA | C4A-NA-C1A | 10.06 | 111.23 | 106.71 |
| 21 | 1 | 1116 | CLA | C4A-NA-C1A | 10.06 | 111.23 | 106.71 |
| 21 | 2 | 1239 | CLA | C4A-NA-C1A | 10.06 | 111.23 | 106.71 |
| 21 | 2 | 1234 | CLA | C4A-NA-C1A | 10.06 | 111.23 | 106.71 |
| 21 | A | 1134 | CLA | C4A-NA-C1A | 10.05 | 111.22 | 106.71 |
| 21 | B | 1218 | CLA | C4A-NA-C1A | 10.05 | 111.22 | 106.71 |
| 21 | B | 1220 | CLA | C4A-NA-C1A | 10.04 | 111.22 | 106.71 |
| 21 | 8 | 1402 | CLA | C4A-NA-C1A | 10.04 | 111.22 | 106.71 |
| 21 | 2 | 1221 | CLA | C4A-NA-C1A | 10.02 | 111.21 | 106.71 |
| 21 | b | 1216 | CLA | C4A-NA-C1A | 10.00 | 111.20 | 106.71 |
| 21 | A | 1115 | CLA | C4A-NA-C1A | 10.00 | 111.20 | 106.71 |
| 21 | 2 | 1217 | CLA | C4A-NA-C1A | 10.00 | 111.20 | 106.71 |
| 21 | A | 1013 | CLA | C4A-NA-C1A | 9.99 | 111.20 | 106.71 |
| 21 | b | 1232 | CLA | C4A-NA-C1A | 9.99 | 111.20 | 106.71 |
| 21 | a | 1128 | CLA | C4A-NA-C1A | 9.99 | 111.20 | 106.71 |
| 21 | 2 | 1211 | CLA | C4A-NA-C1A | 9.99 | 111.20 | 106.71 |
| 21 | 2 | 1231 | CLA | C4A-NA-C1A | 9.99 | 111.20 | 106.71 |
| 24 | B | 4014 | BCR | C16-C15-C14 | 9.99 | 143.93 | 123.47 |
| 21 | a | 1104 | CLA | C4A-NA-C1A | 9.98 | 111.19 | 106.71 |
| 21 | 1 | 1108 | CLA | C4A-NA-C1A | 9.98 | 111.19 | 106.71 |
| 21 | b | 1239 | CLA | C4A-NA-C1A | 9.98 | 111.19 | 106.71 |
| 21 | a | 1111 | CLA | C4A-NA-C1A | 9.97 | 111.19 | 106.71 |
| 21 | 1 | 1122 | CLA | C4A-NA-C1A | 9.97 | 111.19 | 106.71 |
| 21 | 1 | 1106 | CLA | C4A-NA-C1A | 9.97 | 111.19 | 106.71 |
| 21 | 2 | 1226 | CLA | C4A-NA-C1A | 9.97 | 111.19 | 106.71 |
| 21 | 1 | 1120 | CLA | C4A-NA-C1A | 9.96 | 111.19 | 106.71 |
| 24 | 8 | 4001 | BCR | C11-C10-C9 | 9.95 | 141.52 | 127.31 |
| 21 | A | 1104 | CLA | C4A-NA-C1A | 9.95 | 111.18 | 106.71 |
| 21 | a | 1120 | CLA | C4A-NA-C1A | 9.95 | 111.18 | 106.71 |
| 21 | b | 1236 | CLA | C4A-NA-C1A | 9.95 | 111.18 | 106.71 |
| 21 | 1 | 1121 | CLA | C4A-NA-C1A | 9.95 | 111.18 | 106.71 |
| 21 | a | 1110 | CLA | C4A-NA-C1A | 9.95 | 111.18 | 106.71 |
| 21 | b | 1218 | CLA | C4A-NA-C1A | 9.95 | 111.18 | 106.71 |
| 21 | b | 1209 | CLA | C4A-NA-C1A | 9.94 | 111.18 | 106.71 |
| 21 | A | 1109 | CLA | C4A-NA-C1A | 9.94 | 111.18 | 106.71 |
| 21 | 8 | 1401 | CLA | C4A-NA-C1A | 9.94 | 111.18 | 106.71 |
| 21 | a | 1130 | CLA | C4A-NA-C1A | 9.94 | 111.17 | 106.71 |
| 21 | B | 1239 | CLA | C4A-NA-C1A | 9.94 | 111.17 | 106.71 |
| 21 | F | 1302 | CLA | C4A-NA-C1A | 9.93 | 111.17 | 106.71 |
| 21 | 2 | 1210 | CLA | C4A-NA-C1A | 9.93 | 111.17 | 106.71 |
| 21 | 2 | 1220 | CLA | C4A-NA-C1A | 9.92 | 111.17 | 106.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 30 | 2 | 4006 | ECH | C16-C17-C18 | -9.92 | 113.15 | 127.31 |
| 21 | A | 1140 | CLA | C4A-NA-C1A | 9.91 | 111.16 | 106.71 |
| 21 | F | 1301 | CLA | C4A-NA-C1A | 9.91 | 111.16 | 106.71 |
| 21 | a | 1101 | CLA | C4A-NA-C1A | 9.90 | 111.16 | 106.71 |
| 21 | A | 1801 | CLA | C4A-NA-C1A | 9.90 | 111.16 | 106.71 |
| 21 | b | 1022 | CLA | C4A-NA-C1A | 9.90 | 111.16 | 106.71 |
| 21 | a | 1113 | CLA | C4A-NA-C1A | 9.89 | 111.15 | 106.71 |
| 21 | b | 1227 | CLA | C4A-NA-C1A | 9.89 | 111.15 | 106.71 |
| 21 | 1 | 1131 | CLA | C4A-NA-C1A | 9.89 | 111.15 | 106.71 |
| 21 | 2 | 1204 | CLA | C4A-NA-C1A | 9.89 | 111.15 | 106.71 |
| 21 | b | 1203 | CLA | C4A-NA-C1A | 9.87 | 111.14 | 106.71 |
| 21 | L | 1502 | CLA | C4A-NA-C1A | 9.87 | 111.14 | 106.71 |
| 21 | a | 1131 | CLA | C4A-NA-C1A | 9.86 | 111.14 | 106.71 |
| 21 | 0 | 1502 | CLA | C4A-NA-C1A | 9.86 | 111.14 | 106.71 |
| 21 | B | 1216 | CLA | C4A-NA-C1A | 9.85 | 111.14 | 106.71 |
| 30 | i | 4020 | ECH | C15-C14-C13 | -9.84 | 113.26 | 127.31 |
| 21 | B | 1223 | CLA | C4A-NA-C1A | 9.84 | 111.13 | 106.71 |
| 21 | b | 1222 | CLA | C4A-NA-C1A | 9.84 | 111.13 | 106.71 |
| 21 | a | 1116 | CLA | C4A-NA-C1A | 9.83 | 111.13 | 106.71 |
| 21 | b | 1208 | CLA | C4A-NA-C1A | 9.83 | 111.12 | 106.71 |
| 21 | 2 | 1227 | CLA | C4A-NA-C1A | 9.82 | 111.12 | 106.71 |
| 21 | 1 | 1137 | CLA | C4A-NA-C1A | 9.82 | 111.12 | 106.71 |
| 21 | a | 1123 | CLA | C4A-NA-C1A | 9.81 | 111.12 | 106.71 |
| 21 | B | 1022 | CLA | C4A-NA-C1A | 9.81 | 111.12 | 106.71 |
| 21 | a | 1114 | CLA | C4A-NA-C1A | 9.80 | 111.11 | 106.71 |
| 21 | 1 | 1101 | CLA | C4A-NA-C1A | 9.79 | 111.11 | 106.71 |
| 21 | 2 | 1229 | CLA | C4A-NA-C1A | 9.79 | 111.11 | 106.71 |
| 21 | b | 1210 | CLA | C4A-NA-C1A | 9.78 | 111.11 | 106.71 |
| 21 | B | 1201 | CLA | C4A-NA-C1A | 9.78 | 111.10 | 106.71 |
| 21 | 1 | 1801 | CLA | C4A-NA-C1A | 9.78 | 111.10 | 106.71 |
| 28 | h | 4020 | 45D | C24-C26-C30 | -9.77 | 103.94 | 118.94 |
| 21 | B | 1228 | CLA | C4A-NA-C1A | 9.77 | 111.10 | 106.71 |
| 21 | 1 | 1132 | CLA | C4A-NA-C1A | 9.77 | 111.10 | 106.71 |
| 21 | 2 | 1219 | CLA | C4A-NA-C1A | 9.77 | 111.10 | 106.71 |
| 21 | a | 1107 | CLA | C4A-NA-C1A | 9.75 | 111.09 | 106.71 |
| 21 | 2 | 1215 | CLA | C4A-NA-C1A | 9.75 | 111.09 | 106.71 |
| 21 | a | 1117 | CLA | C4A-NA-C1A | 9.75 | 111.09 | 106.71 |
| 21 | 1 | 1111 | CLA | C4A-NA-C1A | 9.75 | 111.09 | 106.71 |
| 21 | a | 1121 | CLA | C4A-NA-C1A | 9.74 | 111.09 | 106.71 |
| 21 | a | 1140 | CLA | C4A-NA-C1A | 9.74 | 111.09 | 106.71 |
| 21 | A | 1125 | CLA | C4A-NA-C1A | 9.74 | 111.09 | 106.71 |
| 24 | b | 4017 | BCR | C21-C20-C19 | 9.73 | 153.57 | 123.22 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|------|-------------|----------|
| 21 | b | 1223 | CLA | C4A-NA-C1A | 9.72 | 111.08 | 106.71 |
| 21 | b | 1235 | CLA | C4A-NA-C1A | 9.72 | 111.08 | 106.71 |
| 21 | A | 1116 | CLA | C4A-NA-C1A | 9.72 | 111.07 | 106.71 |
| 21 | B | 1225 | CLA | C4A-NA-C1A | 9.72 | 111.07 | 106.71 |
| 21 | 1 | 1117 | CLA | C4A-NA-C1A | 9.71 | 111.07 | 106.71 |
| 21 | L | 1503 | CLA | C4A-NA-C1A | 9.70 | 111.07 | 106.71 |
| 21 | f | 1302 | CLA | C4A-NA-C1A | 9.70 | 111.07 | 106.71 |
| 21 | A | 1110 | CLA | C4A-NA-C1A | 9.70 | 111.07 | 106.71 |
| 21 | B | 1213 | CLA | C4A-NA-C1A | 9.70 | 111.07 | 106.71 |
| 21 | A | 1137 | CLA | C4A-NA-C1A | 9.70 | 111.07 | 106.71 |
| 21 | 1 | 1115 | CLA | C4A-NA-C1A | 9.69 | 111.06 | 106.71 |
| 21 | B | 1234 | CLA | C4A-NA-C1A | 9.68 | 111.06 | 106.71 |
| 21 | B | 1210 | CLA | C4A-NA-C1A | 9.67 | 111.05 | 106.71 |
| 21 | B | 1227 | CLA | C4A-NA-C1A | 9.67 | 111.05 | 106.71 |
| 21 | B | 1237 | CLA | C4A-NA-C1A | 9.67 | 111.05 | 106.71 |
| 21 | 2 | 1203 | CLA | C4A-NA-C1A | 9.66 | 111.05 | 106.71 |
| 21 | a | 1132 | CLA | C4A-NA-C1A | 9.65 | 111.05 | 106.71 |
| 21 | 1 | 1136 | CLA | C4A-NA-C1A | 9.64 | 111.04 | 106.71 |
| 21 | a | 1137 | CLA | C4A-NA-C1A | 9.64 | 111.04 | 106.71 |
| 21 | A | 1130 | CLA | C4A-NA-C1A | 9.61 | 111.03 | 106.71 |
| 21 | 1 | 1107 | CLA | C4A-NA-C1A | 9.61 | 111.03 | 106.71 |
| 21 | A | 1106 | CLA | C4A-NA-C1A | 9.60 | 111.02 | 106.71 |
| 24 | 2 | 4017 | BCR | C21-C20-C19 | 9.60 | 153.17 | 123.22 |
| 21 | 1 | 1138 | CLA | C4A-NA-C1A | 9.60 | 111.02 | 106.71 |
| 21 | B | 1240 | CLA | C4A-NA-C1A | 9.59 | 111.02 | 106.71 |
| 21 | a | 1105 | CLA | C4A-NA-C1A | 9.59 | 111.02 | 106.71 |
| 21 | 2 | 1218 | CLA | C4A-NA-C1A | 9.59 | 111.02 | 106.71 |
| 21 | 0 | 1501 | CLA | C4A-NA-C1A | 9.59 | 111.02 | 106.71 |
| 21 | 1 | 1105 | CLA | C4A-NA-C1A | 9.58 | 111.02 | 106.71 |
| 21 | B | 1226 | CLA | C4A-NA-C1A | 9.58 | 111.01 | 106.71 |
| 21 | 1 | 1130 | CLA | C4A-NA-C1A | 9.58 | 111.01 | 106.71 |
| 21 | 2 | 1208 | CLA | C4A-NA-C1A | 9.57 | 111.01 | 106.71 |
| 24 | 1 | 4002 | BCR | C11-C10-C9 | 9.57 | 140.96 | 127.31 |
| 21 | 1 | 1127 | CLA | C4A-NA-C1A | 9.55 | 111.00 | 106.71 |
| 21 | b | 1219 | CLA | C4A-NA-C1A | 9.54 | 111.00 | 106.71 |
| 21 | 1 | 1123 | CLA | C4A-NA-C1A | 9.53 | 110.99 | 106.71 |
| 21 | a | 1127 | CLA | C4A-NA-C1A | 9.53 | 110.99 | 106.71 |
| 24 | B | 4017 | BCR | C21-C20-C19 | 9.52 | 152.91 | 123.22 |
| 21 | a | 1119 | CLA | C4A-NA-C1A | 9.51 | 110.98 | 106.71 |
| 21 | 2 | 1236 | CLA | C4A-NA-C1A | 9.50 | 110.98 | 106.71 |
| 21 | l | 1502 | CLA | C4A-NA-C1A | 9.49 | 110.97 | 106.71 |
| 21 | K | 1402 | CLA | C4A-NA-C1A | 9.48 | 110.97 | 106.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|------|-------------|----------|
| 21 | b | 1217 | CLA | C4A-NA-C1A | 9.48 | 110.97 | 106.71 |
| 21 | 1 | 1140 | CLA | C4A-NA-C1A | 9.47 | 110.97 | 106.71 |
| 21 | A | 1131 | CLA | C4A-NA-C1A | 9.45 | 110.95 | 106.71 |
| 24 | b | 4010 | BCR | C11-C10-C9 | 9.45 | 140.79 | 127.31 |
| 21 | a | 1118 | CLA | C4A-NA-C1A | 9.44 | 110.95 | 106.71 |
| 21 | B | 1208 | CLA | C4A-NA-C1A | 9.44 | 110.95 | 106.71 |
| 21 | A | 1136 | CLA | C4A-NA-C1A | 9.44 | 110.95 | 106.71 |
| 21 | b | 1229 | CLA | C4A-NA-C1A | 9.43 | 110.94 | 106.71 |
| 21 | B | 1236 | CLA | C4A-NA-C1A | 9.43 | 110.94 | 106.71 |
| 21 | 0 | 1503 | CLA | C4A-NA-C1A | 9.43 | 110.94 | 106.71 |
| 21 | B | 1212 | CLA | C4A-NA-C1A | 9.42 | 110.94 | 106.71 |
| 21 | 1 | 1128 | CLA | C4A-NA-C1A | 9.42 | 110.94 | 106.71 |
| 21 | A | 1122 | CLA | C4A-NA-C1A | 9.42 | 110.94 | 106.71 |
| 21 | b | 1237 | CLA | C4A-NA-C1A | 9.42 | 110.94 | 106.71 |
| 21 | j | 1303 | CLA | C4A-NA-C1A | 9.42 | 110.94 | 106.71 |
| 21 | B | 1214 | CLA | C4A-NA-C1A | 9.41 | 110.94 | 106.71 |
| 21 | A | 1118 | CLA | C4A-NA-C1A | 9.41 | 110.94 | 106.71 |
| 21 | 1 | 1114 | CLA | C4A-NA-C1A | 9.41 | 110.94 | 106.71 |
| 21 | b | 1215 | CLA | C4A-NA-C1A | 9.40 | 110.93 | 106.71 |
| 21 | b | 1234 | CLA | C4A-NA-C1A | 9.40 | 110.93 | 106.71 |
| 21 | b | 1238 | CLA | C4A-NA-C1A | 9.39 | 110.93 | 106.71 |
| 24 | A | 4001 | BCR | C11-C10-C9 | 9.39 | 140.71 | 127.31 |
| 21 | A | 1124 | CLA | C4A-NA-C1A | 9.38 | 110.92 | 106.71 |
| 21 | A | 1128 | CLA | C4A-NA-C1A | 9.37 | 110.92 | 106.71 |
| 21 | K | 1401 | CLA | C4A-NA-C1A | 9.37 | 110.92 | 106.71 |
| 21 | 2 | 1237 | CLA | C4A-NA-C1A | 9.36 | 110.92 | 106.71 |
| 21 | 2 | 1225 | CLA | C4A-NA-C1A | 9.35 | 110.91 | 106.71 |
| 21 | A | 1114 | CLA | C4A-NA-C1A | 9.34 | 110.91 | 106.71 |
| 24 | a | 4012 | BCR | C11-C10-C9 | 9.34 | 140.64 | 127.31 |
| 24 | b | 4018 | BCR | C11-C10-C9 | 9.33 | 140.63 | 127.31 |
| 21 | A | 1129 | CLA | C4A-NA-C1A | 9.33 | 110.90 | 106.71 |
| 21 | A | 1127 | CLA | C4A-NA-C1A | 9.33 | 110.90 | 106.71 |
| 21 | b | 1214 | CLA | C4A-NA-C1A | 9.33 | 110.90 | 106.71 |
| 21 | b | 1205 | CLA | C4A-NA-C1A | 9.32 | 110.90 | 106.71 |
| 21 | A | 1117 | CLA | C4A-NA-C1A | 9.32 | 110.89 | 106.71 |
| 24 | 2 | 4010 | BCR | C20-C19-C18 | 9.32 | 152.59 | 126.42 |
| 21 | b | 1225 | CLA | C4A-NA-C1A | 9.30 | 110.89 | 106.71 |
| 21 | B | 1219 | CLA | C4A-NA-C1A | 9.30 | 110.89 | 106.71 |
| 24 | i | 4018 | BCR | C21-C20-C19 | 9.30 | 152.22 | 123.22 |
| 21 | A | 1113 | CLA | C4A-NA-C1A | 9.29 | 110.88 | 106.71 |
| 24 | 2 | 4017 | BCR | C20-C19-C18 | 9.29 | 152.50 | 126.42 |
| 21 | a | 1129 | CLA | C4A-NA-C1A | 9.28 | 110.88 | 106.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | b | 1204 | CLA | C4A-NA-C1A | 9.26 | 110.87 | 106.71 |
| 21 | f | 1301 | CLA | C4A-NA-C1A | 9.24 | 110.86 | 106.71 |
| 21 | A | 1101 | CLA | C4A-NA-C1A | 9.23 | 110.86 | 106.71 |
| 21 | 6 | 1301 | CLA | C4A-NA-C1A | 9.23 | 110.86 | 106.71 |
| 21 | A | 1132 | CLA | C4A-NA-C1A | 9.22 | 110.85 | 106.71 |
| 21 | A | 1119 | CLA | C4A-NA-C1A | 9.21 | 110.84 | 106.71 |
| 24 | 2 | 4018 | BCR | C21-C20-C19 | 9.20 | 151.93 | 123.22 |
| 30 | B | 4006 | ECH | C16-C17-C18 | -9.19 | 114.20 | 127.31 |
| 21 | 1 | 1135 | CLA | C4A-NA-C1A | 9.18 | 110.83 | 106.71 |
| 21 | a | 1133 | CLA | C4A-NA-C1A | 9.18 | 110.83 | 106.71 |
| 21 | l | 1503 | CLA | C4A-NA-C1A | 9.18 | 110.83 | 106.71 |
| 21 | 2 | 1238 | CLA | C4A-NA-C1A | 9.16 | 110.83 | 106.71 |
| 24 | h | 4018 | BCR | C21-C20-C19 | 9.16 | 151.80 | 123.22 |
| 24 | b | 4018 | BCR | C20-C19-C18 | 9.14 | 152.09 | 126.42 |
| 21 | 1 | 1129 | CLA | C4A-NA-C1A | 9.11 | 110.80 | 106.71 |
| 24 | L | 4019 | BCR | C11-C10-C9 | 9.11 | 140.31 | 127.31 |
| 21 | A | 1120 | CLA | C4A-NA-C1A | 9.11 | 110.80 | 106.71 |
| 24 | 9 | 4021 | BCR | C21-C20-C19 | 9.06 | 151.50 | 123.22 |
| 21 | 1 | 1124 | CLA | C4A-NA-C1A | 9.04 | 110.77 | 106.71 |
| 21 | A | 1135 | CLA | C4A-NA-C1A | 9.00 | 110.75 | 106.71 |
| 24 | b | 4017 | BCR | C20-C19-C18 | 8.94 | 151.54 | 126.42 |
| 24 | a | 4008 | BCR | C20-C19-C18 | 8.92 | 151.49 | 126.42 |
| 21 | A | 1105 | CLA | C4A-NA-C1A | 8.89 | 110.70 | 106.71 |
| 24 | L | 4019 | BCR | C16-C15-C14 | 8.88 | 141.66 | 123.47 |
| 24 | 2 | 4011 | BCR | C20-C19-C18 | 8.88 | 151.35 | 126.42 |
| 24 | B | 4018 | BCR | C20-C19-C18 | 8.87 | 151.33 | 126.42 |
| 24 | 1 | 4007 | BCR | C20-C19-C18 | 8.86 | 151.31 | 126.42 |
| 24 | A | 4007 | BCR | C11-C10-C9 | 8.84 | 139.92 | 127.31 |
| 24 | a | 4012 | BCR | C20-C19-C18 | 8.82 | 151.19 | 126.42 |
| 24 | B | 4005 | BCR | C20-C19-C18 | 8.81 | 151.17 | 126.42 |
| 30 | b | 4011 | ECH | C15-C14-C13 | -8.81 | 114.74 | 127.31 |
| 21 | a | 1135 | CLA | C4A-NA-C1A | 8.79 | 110.66 | 106.71 |
| 24 | A | 4008 | BCR | C11-C10-C9 | 8.77 | 139.83 | 127.31 |
| 24 | a | 4002 | BCR | C20-C19-C18 | 8.71 | 150.88 | 126.42 |
| 21 | B | 1204 | CLA | C4A-NA-C1A | 8.70 | 110.62 | 106.71 |
| 21 | b | 1212 | CLA | C4A-NA-C1A | 8.70 | 110.62 | 106.71 |
| 21 | A | 1133 | CLA | C4A-NA-C1A | 8.68 | 110.61 | 106.71 |
| 30 | b | 4006 | ECH | C20-C21-C22 | -8.67 | 114.94 | 127.31 |
| 24 | A | 4007 | BCR | C20-C19-C18 | 8.65 | 150.71 | 126.42 |
| 24 | 0 | 4019 | BCR | C20-C19-C18 | 8.64 | 150.68 | 126.42 |
| 24 | B | 4017 | BCR | C20-C19-C18 | 8.61 | 150.60 | 126.42 |
| 21 | 2 | 1214 | CLA | C4A-NA-C1A | 8.61 | 110.58 | 106.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | B | 1238 | CLA | C4A-NA-C1A | 8.59 | 110.57 | 106.71 |
| 24 | l | 4019 | BCR | C11-C10-C9 | 8.49 | 139.43 | 127.31 |
| 24 | 2 | 4005 | BCR | C20-C19-C18 | 8.46 | 150.19 | 126.42 |
| 24 | A | 4019 | BCR | C20-C19-C18 | 8.44 | 150.13 | 126.42 |
| 24 | b | 4005 | BCR | C20-C19-C18 | 8.43 | 150.10 | 126.42 |
| 21 | b | 1226 | CLA | C4A-NA-C1A | 8.43 | 110.50 | 106.71 |
| 24 | a | 4001 | BCR | C20-C19-C18 | 8.32 | 149.78 | 126.42 |
| 28 | h | 4020 | 45D | C32-C34-C36 | -8.28 | 103.16 | 126.42 |
| 24 | L | 4019 | BCR | C20-C19-C18 | 8.22 | 149.50 | 126.42 |
| 24 | l | 4019 | BCR | C20-C19-C18 | 8.07 | 149.09 | 126.42 |
| 24 | 1 | 4019 | BCR | C20-C19-C18 | 8.03 | 148.99 | 126.42 |
| 34 | F | 4016 | ZEX | C27-C26-C25 | -8.03 | 109.86 | 122.84 |
| 24 | K | 4001 | BCR | C20-C19-C18 | 8.01 | 148.91 | 126.42 |
| 24 | a | 4003 | BCR | C20-C19-C18 | 7.99 | 148.87 | 126.42 |
| 24 | 1 | 4012 | BCR | C20-C19-C18 | 7.99 | 148.87 | 126.42 |
| 24 | J | 4013 | BCR | C20-C19-C18 | 7.96 | 148.79 | 126.42 |
| 24 | k | 4001 | BCR | C20-C19-C18 | 7.91 | 148.65 | 126.42 |
| 24 | I | 4018 | BCR | C21-C20-C19 | 7.89 | 147.84 | 123.22 |
| 24 | 6 | 4016 | BCR | C20-C19-C18 | 7.85 | 148.47 | 126.42 |
| 24 | A | 4008 | BCR | C20-C19-C18 | 7.81 | 148.37 | 126.42 |
| 24 | A | 4002 | BCR | C20-C19-C18 | 7.79 | 148.31 | 126.42 |
| 24 | L | 4022 | BCR | C20-C19-C18 | 7.73 | 148.14 | 126.42 |
| 24 | 1 | 4008 | BCR | C20-C19-C18 | 7.64 | 147.87 | 126.42 |
| 24 | A | 4001 | BCR | C20-C19-C18 | 7.62 | 147.82 | 126.42 |
| 24 | B | 4010 | BCR | C20-C19-C18 | 7.58 | 147.70 | 126.42 |
| 24 | f | 4016 | BCR | C20-C19-C18 | 7.58 | 147.70 | 126.42 |
| 24 | a | 4007 | BCR | C20-C19-C18 | 7.49 | 147.45 | 126.42 |
| 34 | j | 4015 | ZEX | C27-C26-C25 | -7.49 | 110.73 | 122.84 |
| 24 | 1 | 4001 | BCR | C20-C19-C18 | 7.45 | 147.33 | 126.42 |
| 30 | 2 | 4006 | ECH | C24-C23-C22 | -7.43 | 115.01 | 126.23 |
| 28 | h | 4020 | 45D | C32-C30-C26 | 7.39 | 137.86 | 127.31 |
| 24 | 8 | 4001 | BCR | C20-C19-C18 | 7.34 | 147.02 | 126.42 |
| 24 | b | 4004 | BCR | C20-C19-C18 | 7.19 | 146.62 | 126.42 |
| 24 | 2 | 4004 | BCR | C20-C19-C18 | 7.17 | 146.57 | 126.42 |
| 24 | A | 4012 | BCR | C20-C19-C18 | 7.15 | 146.50 | 126.42 |
| 24 | B | 4014 | BCR | C20-C19-C18 | 7.09 | 146.33 | 126.42 |
| 24 | l | 4022 | BCR | C20-C19-C18 | 7.03 | 146.17 | 126.42 |
| 21 | b | 1215 | CLA | O2A-C1-C2 | 7.03 | 127.10 | 108.64 |
| 24 | 1 | 4003 | BCR | C20-C19-C18 | 7.02 | 146.14 | 126.42 |
| 24 | b | 4014 | BCR | C20-C19-C18 | 6.89 | 145.78 | 126.42 |
| 24 | B | 4004 | BCR | C20-C19-C18 | 6.84 | 145.64 | 126.42 |
| 24 | b | 4010 | BCR | C20-C19-C18 | 6.80 | 145.53 | 126.42 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 24 | j | 4013 | BCR | C20-C19-C18 | 6.80 | 145.52 | 126.42 |
| 24 | 7 | 4013 | BCR | C20-C19-C18 | 6.78 | 145.47 | 126.42 |
| 24 | 1 | 4002 | BCR | C20-C19-C18 | 6.77 | 145.44 | 126.42 |
| 21 | A | 1128 | CLA | O2A-C1-C2 | 6.77 | 126.42 | 108.64 |
| 34 | 7 | 4015 | ZEX | C27-C26-C25 | -6.70 | 112.01 | 122.84 |
| 24 | 2 | 4014 | BCR | C20-C19-C18 | 6.69 | 145.21 | 126.42 |
| 24 | A | 4003 | BCR | C20-C19-C18 | 6.64 | 145.07 | 126.42 |
| 21 | B | 1239 | CLA | O2A-C1-C2 | 6.63 | 126.05 | 108.64 |
| 30 | B | 4006 | ECH | C24-C23-C22 | -6.60 | 116.26 | 126.23 |
| 28 | h | 4020 | 45D | C24-C20-C08 | -6.48 | 109.00 | 127.20 |
| 34 | J | 4015 | ZEX | C27-C26-C25 | -6.40 | 112.50 | 122.84 |
| 24 | a | 4019 | BCR | C20-C19-C18 | 6.36 | 144.29 | 126.42 |
| 21 | 1 | 1109 | CLA | CMD-C2D-C1D | 6.35 | 135.91 | 124.71 |
| 21 | A | 1138 | CLA | O2A-C1-C2 | 6.31 | 125.23 | 108.64 |
| 21 | b | 1239 | CLA | O2A-C1-C2 | 6.31 | 125.21 | 108.64 |
| 21 | 1 | 1128 | CLA | O2A-C1-C2 | 6.29 | 125.17 | 108.64 |
| 21 | A | 1135 | CLA | O2A-C1-C2 | 6.27 | 125.11 | 108.64 |
| 28 | B | 4011 | 45D | C20-C24-C26 | -6.25 | 116.79 | 126.23 |
| 21 | 2 | 1215 | CLA | O2A-C1-C2 | 6.23 | 125.01 | 108.64 |
| 21 | a | 1125 | CLA | O2A-C1-C2 | 6.20 | 124.94 | 108.64 |
| 21 | 2 | 1239 | CLA | O2A-C1-C2 | 6.19 | 124.91 | 108.64 |
| 21 | A | 1130 | CLA | O2A-C1-C2 | 6.18 | 124.88 | 108.64 |
| 21 | B | 1206 | CLA | O2A-C1-C2 | 6.14 | 124.78 | 108.64 |
| 21 | A | 1121 | CLA | CMD-C2D-C1D | 6.11 | 135.48 | 124.71 |
| 30 | i | 4020 | ECH | C7-C8-C9 | -6.11 | 117.01 | 126.23 |
| 21 | 1 | 1012 | CLA | O2A-C1-C2 | 6.10 | 124.66 | 108.64 |
| 21 | 2 | 1228 | CLA | CMD-C2D-C1D | 6.09 | 135.45 | 124.71 |
| 21 | 2 | 1229 | CLA | CHD-C1D-ND | -6.05 | 118.89 | 124.45 |
| 21 | b | 1213 | CLA | CMD-C2D-C1D | 6.05 | 135.38 | 124.71 |
| 30 | b | 4011 | ECH | C20-C21-C22 | -6.03 | 118.70 | 127.31 |
| 21 | b | 1226 | CLA | CMD-C2D-C1D | 6.02 | 135.32 | 124.71 |
| 21 | A | 1107 | CLA | O2A-C1-C2 | 6.01 | 124.43 | 108.64 |
| 21 | 2 | 1221 | CLA | CMD-C2D-C1D | 5.99 | 135.28 | 124.71 |
| 34 | F | 4016 | ZEX | C28-C27-C26 | -5.99 | 116.86 | 127.09 |
| 21 | 1 | 1132 | CLA | O2A-C1-C2 | 5.99 | 124.36 | 108.64 |
| 24 | 9 | 4021 | BCR | C20-C19-C18 | 5.98 | 143.22 | 126.42 |
| 21 | a | 1136 | CLA | CMD-C2D-C1D | 5.98 | 135.25 | 124.71 |
| 21 | 1 | 1801 | CLA | CMD-C2D-C1D | 5.97 | 135.24 | 124.71 |
| 24 | 0 | 4022 | BCR | C20-C19-C18 | 5.97 | 143.19 | 126.42 |
| 21 | k | 1402 | CLA | O2A-C1-C2 | 5.97 | 122.93 | 108.97 |
| 21 | a | 1107 | CLA | CMD-C2D-C1D | 5.96 | 135.22 | 124.71 |
| 21 | A | 1125 | CLA | O2A-C1-C2 | 5.96 | 124.29 | 108.64 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | b | 1231 | CLA | CMD-C2D-C1D | 5.92 | 135.14 | 124.71 |
| 28 | h | 4020 | 45D | C28-C26-C24 | 5.91 | 127.38 | 118.08 |
| 28 | B | 4011 | 45D | C41-C37-C35 | -5.87 | 118.94 | 127.31 |
| 21 | 1 | 1122 | CLA | CMD-C2D-C1D | 5.87 | 135.05 | 124.71 |
| 21 | A | 1120 | CLA | CMD-C2D-C1D | 5.85 | 135.03 | 124.71 |
| 21 | 2 | 1227 | CLA | CMD-C2D-C1D | 5.85 | 135.02 | 124.71 |
| 21 | a | 1103 | CLA | CMD-C2D-C1D | 5.84 | 135.01 | 124.71 |
| 21 | 2 | 1201 | CLA | CMD-C2D-C1D | 5.83 | 134.98 | 124.71 |
| 21 | 2 | 1211 | CLA | CMD-C2D-C1D | 5.82 | 134.98 | 124.71 |
| 21 | 7 | 1302 | CLA | CMD-C2D-C1D | 5.81 | 134.95 | 124.71 |
| 21 | A | 1131 | CLA | CMD-C2D-C1D | 5.79 | 134.92 | 124.71 |
| 21 | B | 1234 | CLA | O2A-C1-C2 | 5.79 | 123.85 | 108.64 |
| 21 | b | 1231 | CLA | O2A-C1-C2 | 5.79 | 123.84 | 108.64 |
| 21 | B | 1217 | CLA | CMD-C2D-C1D | 5.78 | 134.90 | 124.71 |
| 21 | 2 | 1224 | CLA | CMD-C2D-C1D | 5.78 | 134.90 | 124.71 |
| 21 | b | 1232 | CLA | CMD-C2D-C1D | 5.77 | 134.88 | 124.71 |
| 21 | 1 | 1111 | CLA | CMD-C2D-C1D | 5.77 | 134.87 | 124.71 |
| 21 | a | 1101 | CLA | CMD-C2D-C1D | 5.76 | 134.87 | 124.71 |
| 21 | 2 | 1205 | CLA | CMD-C2D-C1D | 5.76 | 134.86 | 124.71 |
| 21 | 1 | 1125 | CLA | O2A-C1-C2 | 5.76 | 123.77 | 108.64 |
| 21 | a | 1109 | CLA | CMD-C2D-C1D | 5.75 | 134.85 | 124.71 |
| 21 | A | 1124 | CLA | CMD-C2D-C1D | 5.75 | 134.84 | 124.71 |
| 21 | b | 1023 | CLA | CMD-C2D-C1D | 5.74 | 134.83 | 124.71 |
| 21 | B | 1208 | CLA | CMD-C2D-C1D | 5.73 | 134.82 | 124.71 |
| 21 | A | 1113 | CLA | CMD-C2D-C1D | 5.73 | 134.80 | 124.71 |
| 21 | A | 1103 | CLA | CMD-C2D-C1D | 5.72 | 134.80 | 124.71 |
| 21 | b | 1202 | CLA | CMD-C2D-C1D | 5.72 | 134.79 | 124.71 |
| 21 | b | 1211 | CLA | CMD-C2D-C1D | 5.72 | 134.79 | 124.71 |
| 21 | k | 1402 | CLA | CMD-C2D-C1D | 5.71 | 134.78 | 124.71 |
| 21 | 1 | 1135 | CLA | CMD-C2D-C1D | 5.71 | 134.78 | 124.71 |
| 21 | B | 1232 | CLA | CMD-C2D-C1D | 5.71 | 134.77 | 124.71 |
| 21 | a | 1139 | CLA | CMD-C2D-C1D | 5.71 | 134.77 | 124.71 |
| 21 | A | 1111 | CLA | O2A-C1-C2 | 5.70 | 123.62 | 108.64 |
| 21 | 1 | 1134 | CLA | CMD-C2D-C1D | 5.70 | 134.76 | 124.71 |
| 21 | B | 1231 | CLA | CMD-C2D-C1D | 5.70 | 134.75 | 124.71 |
| 21 | b | 1236 | CLA | CMD-C2D-C1D | 5.70 | 134.75 | 124.71 |
| 21 | 2 | 1212 | CLA | CMD-C2D-C1D | 5.69 | 134.75 | 124.71 |
| 21 | 8 | 1401 | CLA | CMD-C2D-C1D | 5.69 | 134.75 | 124.71 |
| 21 | B | 1235 | CLA | O2A-C1-C2 | 5.69 | 123.58 | 108.64 |
| 21 | 2 | 1240 | CLA | CMD-C2D-C1D | 5.68 | 134.72 | 124.71 |
| 21 | b | 1240 | CLA | CMD-C2D-C1D | 5.68 | 134.72 | 124.71 |
| 21 | L | 1503 | CLA | O2A-C1-C2 | 5.67 | 123.55 | 108.64 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | b | 1222 | CLA | CMD-C2D-C1D | 5.67 | 134.71 | 124.71 |
| 21 | 2 | 1230 | CLA | CMD-C2D-C1D | 5.67 | 134.71 | 124.71 |
| 21 | B | 1221 | CLA | CMD-C2D-C1D | 5.67 | 134.71 | 124.71 |
| 21 | a | 1123 | CLA | CMD-C2D-C1D | 5.67 | 134.70 | 124.71 |
| 21 | 7 | 1303 | CLA | CMD-C2D-C1D | 5.67 | 134.70 | 124.71 |
| 21 | b | 1209 | CLA | O2A-C1-C2 | 5.66 | 123.50 | 108.64 |
| 30 | B | 4006 | ECH | C16-C15-C14 | -5.65 | 111.89 | 123.47 |
| 21 | a | 1104 | CLA | CMD-C2D-C1D | 5.65 | 134.67 | 124.71 |
| 21 | 2 | 1225 | CLA | CMD-C2D-C1D | 5.65 | 134.67 | 124.71 |
| 21 | A | 1011 | CLA | O2D-CGD-CBD | 5.65 | 121.31 | 111.27 |
| 24 | 2 | 4018 | BCR | C20-C19-C18 | 5.65 | 142.28 | 126.42 |
| 21 | a | 1106 | CLA | CMD-C2D-C1D | 5.65 | 134.66 | 124.71 |
| 21 | 2 | 1203 | CLA | CMD-C2D-C1D | 5.65 | 134.66 | 124.71 |
| 21 | A | 1120 | CLA | O2A-C1-C2 | 5.65 | 123.47 | 108.64 |
| 21 | 2 | 1209 | CLA | CMD-C2D-C1D | 5.64 | 134.66 | 124.71 |
| 21 | 1 | 1112 | CLA | CMD-C2D-C1D | 5.64 | 134.65 | 124.71 |
| 21 | b | 1216 | CLA | CMD-C2D-C1D | 5.64 | 134.65 | 124.71 |
| 21 | 2 | 1234 | CLA | CMD-C2D-C1D | 5.64 | 134.65 | 124.71 |
| 21 | 2 | 1232 | CLA | CMD-C2D-C1D | 5.64 | 134.65 | 124.71 |
| 21 | a | 1126 | CLA | CMD-C2D-C1D | 5.63 | 134.64 | 124.71 |
| 21 | a | 1113 | CLA | CMD-C2D-C1D | 5.63 | 134.64 | 124.71 |
| 21 | b | 1217 | CLA | CMD-C2D-C1D | 5.63 | 134.64 | 124.71 |
| 21 | 2 | 1206 | CLA | CMD-C2D-C1D | 5.63 | 134.63 | 124.71 |
| 21 | b | 1228 | CLA | CMD-C2D-C1D | 5.62 | 134.62 | 124.71 |
| 21 | 1 | 1104 | CLA | CMD-C2D-C1D | 5.62 | 134.62 | 124.71 |
| 21 | a | 1138 | CLA | O2A-C1-C2 | 5.62 | 123.41 | 108.64 |
| 21 | B | 1223 | CLA | CMD-C2D-C1D | 5.62 | 134.61 | 124.71 |
| 21 | 1 | 1503 | CLA | O2A-C1-C2 | 5.61 | 123.38 | 108.64 |
| 21 | 2 | 1213 | CLA | CMD-C2D-C1D | 5.61 | 134.60 | 124.71 |
| 21 | 1 | 1121 | CLA | CMD-C2D-C1D | 5.61 | 134.60 | 124.71 |
| 21 | 8 | 1402 | CLA | CMD-C2D-C1D | 5.61 | 134.60 | 124.71 |
| 21 | 6 | 1302 | CLA | CMD-C2D-C1D | 5.60 | 134.59 | 124.71 |
| 21 | 1 | 1131 | CLA | CMD-C2D-C1D | 5.60 | 134.59 | 124.71 |
| 21 | 2 | 1204 | CLA | CMD-C2D-C1D | 5.60 | 134.59 | 124.71 |
| 21 | 2 | 1226 | CLA | CMD-C2D-C1D | 5.60 | 134.59 | 124.71 |
| 21 | 1 | 1101 | CLA | CMD-C2D-C1D | 5.60 | 134.58 | 124.71 |
| 21 | 2 | 1208 | CLA | CMD-C2D-C1D | 5.59 | 134.57 | 124.71 |
| 21 | a | 1135 | CLA | CMD-C2D-C1D | 5.59 | 134.57 | 124.71 |
| 21 | B | 1213 | CLA | O2A-C1-C2 | 5.59 | 123.34 | 108.64 |
| 21 | 1 | 1113 | CLA | CMD-C2D-C1D | 5.59 | 134.57 | 124.71 |
| 21 | 1 | 1140 | CLA | CMD-C2D-C1D | 5.59 | 134.57 | 124.71 |
| 21 | B | 1231 | CLA | O2A-C1-C2 | 5.59 | 123.32 | 108.64 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|------|-------------|----------|
| 21 | K | 1402 | CLA | CMD-C2D-C1D | 5.59 | 134.56 | 124.71 |
| 21 | B | 1214 | CLA | CMD-C2D-C1D | 5.59 | 134.56 | 124.71 |
| 21 | a | 1140 | CLA | O2A-C1-C2 | 5.59 | 123.31 | 108.64 |
| 21 | 1 | 1116 | CLA | CMD-C2D-C1D | 5.58 | 134.56 | 124.71 |
| 21 | j | 1302 | CLA | CMD-C2D-C1D | 5.58 | 134.55 | 124.71 |
| 21 | 2 | 1231 | CLA | CMD-C2D-C1D | 5.58 | 134.55 | 124.71 |
| 21 | a | 1114 | CLA | CMD-C2D-C1D | 5.58 | 134.55 | 124.71 |
| 21 | 2 | 1219 | CLA | CMD-C2D-C1D | 5.58 | 134.55 | 124.71 |
| 21 | B | 1216 | CLA | O2A-C1-C2 | 5.58 | 123.29 | 108.64 |
| 21 | f | 1301 | CLA | CMD-C2D-C1D | 5.58 | 134.54 | 124.71 |
| 21 | a | 1121 | CLA | CMD-C2D-C1D | 5.57 | 134.54 | 124.71 |
| 21 | 2 | 1021 | CLA | CMD-C2D-C1D | 5.57 | 134.53 | 124.71 |
| 28 | h | 4020 | 45D | C20-C24-C26 | 5.57 | 134.65 | 126.23 |
| 21 | 1 | 1139 | CLA | CMD-C2D-C1D | 5.57 | 134.53 | 124.71 |
| 21 | J | 1303 | CLA | CMD-C2D-C1D | 5.57 | 134.53 | 124.71 |
| 21 | a | 1105 | CLA | CMD-C2D-C1D | 5.57 | 134.53 | 124.71 |
| 21 | 2 | 1229 | CLA | CMD-C2D-C1D | 5.57 | 134.52 | 124.71 |
| 21 | B | 1230 | CLA | CMD-C2D-C1D | 5.57 | 134.52 | 124.71 |
| 21 | 1 | 1103 | CLA | CMD-C2D-C1D | 5.56 | 134.52 | 124.71 |
| 21 | A | 1110 | CLA | CMD-C2D-C1D | 5.56 | 134.52 | 124.71 |
| 21 | b | 1209 | CLA | CMD-C2D-C1D | 5.56 | 134.52 | 124.71 |
| 21 | a | 1102 | CLA | CMD-C2D-C1D | 5.56 | 134.51 | 124.71 |
| 21 | a | 1137 | CLA | CMD-C2D-C1D | 5.56 | 134.51 | 124.71 |
| 21 | B | 1240 | CLA | CMD-C2D-C1D | 5.56 | 134.51 | 124.71 |
| 21 | b | 1225 | CLA | O2A-C1-C2 | 5.56 | 123.24 | 108.64 |
| 21 | 2 | 1210 | CLA | CMD-C2D-C1D | 5.56 | 134.51 | 124.71 |
| 21 | 1 | 1119 | CLA | CMD-C2D-C1D | 5.56 | 134.50 | 124.71 |
| 21 | b | 1227 | CLA | CMD-C2D-C1D | 5.55 | 134.49 | 124.71 |
| 21 | 1 | 1124 | CLA | CMD-C2D-C1D | 5.55 | 134.49 | 124.71 |
| 21 | 2 | 1222 | CLA | CMD-C2D-C1D | 5.55 | 134.49 | 124.71 |
| 21 | 1 | 1013 | CLA | O2A-C1-C2 | 5.54 | 123.20 | 108.64 |
| 21 | 1 | 1114 | CLA | CMD-C2D-C1D | 5.54 | 134.48 | 124.71 |
| 25 | M | 5001 | LHG | O7-C7-C8 | 5.53 | 123.43 | 111.50 |
| 21 | B | 1213 | CLA | CMD-C2D-C1D | 5.53 | 134.46 | 124.71 |
| 21 | 0 | 1503 | CLA | O2A-C1-C2 | 5.53 | 123.17 | 108.64 |
| 21 | a | 1134 | CLA | CMD-C2D-C1D | 5.53 | 134.45 | 124.71 |
| 21 | a | 1801 | CLA | CMD-C2D-C1D | 5.52 | 134.45 | 124.71 |
| 21 | B | 1219 | CLA | CMD-C2D-C1D | 5.52 | 134.45 | 124.71 |
| 21 | a | 1108 | CLA | CMD-C2D-C1D | 5.52 | 134.44 | 124.71 |
| 21 | a | 1112 | CLA | CMD-C2D-C1D | 5.52 | 134.44 | 124.71 |
| 21 | a | 1127 | CLA | O2A-C1-C2 | 5.52 | 123.13 | 108.64 |
| 21 | 1 | 1112 | CLA | O2A-C1-C2 | 5.51 | 123.13 | 108.64 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | A | 1135 | CLA | CMD-C2D-C1D | 5.51 | 134.43 | 124.71 |
| 21 | B | 1226 | CLA | CMD-C2D-C1D | 5.51 | 134.43 | 124.71 |
| 21 | 1 | 1105 | CLA | CMD-C2D-C1D | 5.51 | 134.43 | 124.71 |
| 21 | 1 | 1110 | CLA | CMD-C2D-C1D | 5.51 | 134.43 | 124.71 |
| 21 | B | 1220 | CLA | CMD-C2D-C1D | 5.51 | 134.42 | 124.71 |
| 21 | B | 1212 | CLA | CMD-C2D-C1D | 5.51 | 134.42 | 124.71 |
| 21 | A | 1102 | CLA | CMD-C2D-C1D | 5.51 | 134.42 | 124.71 |
| 21 | a | 1119 | CLA | CMD-C2D-C1D | 5.51 | 134.42 | 124.71 |
| 21 | 2 | 1225 | CLA | O2A-C1-C2 | 5.51 | 123.11 | 108.64 |
| 21 | b | 1220 | CLA | O2A-C1-C2 | 5.51 | 123.11 | 108.64 |
| 21 | 1 | 1135 | CLA | O2A-C1-C2 | 5.50 | 123.10 | 108.64 |
| 21 | 1 | 1130 | CLA | CMD-C2D-C1D | 5.50 | 134.41 | 124.71 |
| 21 | a | 1127 | CLA | CMD-C2D-C1D | 5.50 | 134.41 | 124.71 |
| 21 | l | 1502 | CLA | CMD-C2D-C1D | 5.50 | 134.41 | 124.71 |
| 21 | 1 | 1102 | CLA | CMD-C2D-C1D | 5.50 | 134.41 | 124.71 |
| 21 | a | 1117 | CLA | CMD-C2D-C1D | 5.50 | 134.41 | 124.71 |
| 21 | 2 | 1235 | CLA | CMD-C2D-C1D | 5.50 | 134.40 | 124.71 |
| 21 | b | 1219 | CLA | CMD-C2D-C1D | 5.50 | 134.40 | 124.71 |
| 21 | 1 | 1115 | CLA | CMD-C2D-C1D | 5.50 | 134.40 | 124.71 |
| 21 | b | 1229 | CLA | CMD-C2D-C1D | 5.49 | 134.39 | 124.71 |
| 21 | B | 1210 | CLA | CMD-C2D-C1D | 5.49 | 134.39 | 124.71 |
| 21 | 1 | 1138 | CLA | O2A-C1-C2 | 5.49 | 123.05 | 108.64 |
| 21 | a | 1110 | CLA | CMD-C2D-C1D | 5.49 | 134.38 | 124.71 |
| 21 | 1 | 1117 | CLA | CMD-C2D-C1D | 5.49 | 134.38 | 124.71 |
| 36 | I | 4020 | EQ3 | C11-C10-C9 | -5.48 | 119.48 | 127.31 |
| 21 | 2 | 1220 | CLA | CMD-C2D-C1D | 5.48 | 134.38 | 124.71 |
| 21 | A | 1129 | CLA | CMD-C2D-C1D | 5.48 | 134.37 | 124.71 |
| 21 | A | 1140 | CLA | CMD-C2D-C1D | 5.48 | 134.37 | 124.71 |
| 21 | A | 1138 | CLA | CMD-C2D-C1D | 5.48 | 134.37 | 124.71 |
| 21 | 2 | 1238 | CLA | CMD-C2D-C1D | 5.48 | 134.37 | 124.71 |
| 21 | F | 1302 | CLA | CMD-C2D-C1D | 5.48 | 134.37 | 124.71 |
| 21 | 2 | 1218 | CLA | CMD-C2D-C1D | 5.48 | 134.36 | 124.71 |
| 21 | a | 1140 | CLA | CMD-C2D-C1D | 5.47 | 134.36 | 124.71 |
| 21 | a | 1122 | CLA | CMD-C2D-C1D | 5.47 | 134.36 | 124.71 |
| 30 | B | 4006 | ECH | C11-C10-C9 | -5.47 | 119.50 | 127.31 |
| 21 | B | 1023 | CLA | O2A-C1-C2 | 5.47 | 123.02 | 108.64 |
| 21 | a | 1120 | CLA | CMD-C2D-C1D | 5.47 | 134.35 | 124.71 |
| 21 | 1 | 1106 | CLA | CMD-C2D-C1D | 5.47 | 134.35 | 124.71 |
| 21 | A | 1109 | CLA | O2A-C1-C2 | 5.47 | 123.00 | 108.64 |
| 21 | a | 1115 | CLA | CMD-C2D-C1D | 5.46 | 134.34 | 124.71 |
| 21 | 1 | 1108 | CLA | CMD-C2D-C1D | 5.46 | 134.34 | 124.71 |
| 21 | 1 | 1138 | CLA | CMD-C2D-C1D | 5.46 | 134.34 | 124.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | l | 1501 | CLA | CMD-C2D-C1D | 5.46 | 134.34 | 124.71 |
| 21 | a | 1101 | CLA | O2A-C1-C2 | 5.46 | 122.98 | 108.64 |
| 21 | A | 1125 | CLA | CMD-C2D-C1D | 5.46 | 134.33 | 124.71 |
| 21 | B | 1227 | CLA | CMD-C2D-C1D | 5.45 | 134.33 | 124.71 |
| 21 | B | 1202 | CLA | CMD-C2D-C1D | 5.45 | 134.32 | 124.71 |
| 21 | A | 1122 | CLA | CMD-C2D-C1D | 5.45 | 134.32 | 124.71 |
| 21 | b | 1022 | CLA | CMD-C2D-C1D | 5.45 | 134.32 | 124.71 |
| 21 | 2 | 1214 | CLA | CMD-C2D-C1D | 5.45 | 134.32 | 124.71 |
| 21 | b | 1219 | CLA | O2A-C1-C2 | 5.45 | 122.96 | 108.64 |
| 21 | 1 | 1123 | CLA | CMD-C2D-C1D | 5.45 | 134.32 | 124.71 |
| 21 | b | 1235 | CLA | CMD-C2D-C1D | 5.45 | 134.31 | 124.71 |
| 21 | B | 1216 | CLA | CMD-C2D-C1D | 5.45 | 134.31 | 124.71 |
| 21 | b | 1234 | CLA | O2A-C1-C2 | 5.45 | 122.95 | 108.64 |
| 28 | B | 4011 | 45D | C31-C29-C25 | -5.44 | 119.54 | 127.31 |
| 21 | a | 1129 | CLA | O2A-C1-C2 | 5.44 | 122.94 | 108.64 |
| 21 | a | 1107 | CLA | O2A-C1-C2 | 5.44 | 122.94 | 108.64 |
| 21 | a | 1122 | CLA | O2A-C1-C2 | 5.44 | 122.94 | 108.64 |
| 21 | j | 1303 | CLA | CMD-C2D-C1D | 5.44 | 134.30 | 124.71 |
| 21 | A | 1011 | CLA | CMD-C2D-C1D | 5.44 | 134.30 | 124.71 |
| 21 | A | 1012 | CLA | O2A-C1-C2 | 5.44 | 122.93 | 108.64 |
| 21 | 2 | 1215 | CLA | CMD-C2D-C1D | 5.44 | 134.29 | 124.71 |
| 21 | b | 1201 | CLA | CMD-C2D-C1D | 5.43 | 134.29 | 124.71 |
| 21 | b | 1208 | CLA | CMD-C2D-C1D | 5.43 | 134.29 | 124.71 |
| 21 | 2 | 1237 | CLA | CMD-C2D-C1D | 5.43 | 134.28 | 124.71 |
| 21 | 2 | 1234 | CLA | O2A-C1-C2 | 5.43 | 122.91 | 108.64 |
| 21 | a | 1133 | CLA | CMD-C2D-C1D | 5.43 | 134.28 | 124.71 |
| 21 | f | 1302 | CLA | CMD-C2D-C1D | 5.42 | 134.27 | 124.71 |
| 21 | b | 1215 | CLA | CMD-C2D-C1D | 5.42 | 134.27 | 124.71 |
| 21 | a | 1114 | CLA | O2A-C1-C2 | 5.42 | 122.88 | 108.64 |
| 21 | K | 1401 | CLA | O2A-C1-C2 | 5.42 | 122.87 | 108.64 |
| 21 | a | 1125 | CLA | CMD-C2D-C1D | 5.41 | 134.25 | 124.71 |
| 21 | A | 1101 | CLA | CMD-C2D-C1D | 5.41 | 134.25 | 124.71 |
| 21 | 2 | 1022 | CLA | CMD-C2D-C1D | 5.41 | 134.25 | 124.71 |
| 21 | b | 1224 | CLA | CMD-C2D-C1D | 5.41 | 134.24 | 124.71 |
| 21 | a | 1135 | CLA | O2A-C1-C2 | 5.41 | 122.85 | 108.64 |
| 21 | 1 | 1115 | CLA | O2A-C1-C2 | 5.40 | 122.84 | 108.64 |
| 21 | A | 1801 | CLA | CMD-C2D-C1D | 5.40 | 134.23 | 124.71 |
| 21 | A | 1111 | CLA | CMD-C2D-C1D | 5.40 | 134.23 | 124.71 |
| 21 | A | 1106 | CLA | O2A-C1-C2 | 5.40 | 122.82 | 108.64 |
| 21 | a | 1131 | CLA | CMD-C2D-C1D | 5.39 | 134.22 | 124.71 |
| 21 | B | 1234 | CLA | CMD-C2D-C1D | 5.39 | 134.21 | 124.71 |
| 21 | a | 1111 | CLA | CMD-C2D-C1D | 5.39 | 134.21 | 124.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|------|-------------|----------|
| 21 | 1 | 1120 | CLA | CMD-C2D-C1D | 5.39 | 134.21 | 124.71 |
| 21 | 0 | 1503 | CLA | CMD-C2D-C1D | 5.39 | 134.21 | 124.71 |
| 21 | a | 1115 | CLA | O2A-C1-C2 | 5.39 | 122.79 | 108.64 |
| 21 | a | 1129 | CLA | CMD-C2D-C1D | 5.38 | 134.20 | 124.71 |
| 21 | B | 1224 | CLA | CMD-C2D-C1D | 5.38 | 134.20 | 124.71 |
| 21 | A | 1134 | CLA | CMD-C2D-C1D | 5.38 | 134.20 | 124.71 |
| 21 | 2 | 1235 | CLA | O2A-C1-C2 | 5.38 | 122.78 | 108.64 |
| 21 | a | 1110 | CLA | O2A-C1-C2 | 5.38 | 122.78 | 108.64 |
| 21 | a | 1130 | CLA | CMD-C2D-C1D | 5.38 | 134.19 | 124.71 |
| 21 | k | 1401 | CLA | O2A-C1-C2 | 5.38 | 122.77 | 108.64 |
| 21 | B | 1218 | CLA | CMD-C2D-C1D | 5.38 | 134.19 | 124.71 |
| 21 | b | 1216 | CLA | O2A-C1-C2 | 5.37 | 122.76 | 108.64 |
| 21 | a | 1126 | CLA | O2A-C1-C2 | 5.37 | 122.76 | 108.64 |
| 21 | 1 | 1140 | CLA | O2A-C1-C2 | 5.37 | 122.75 | 108.64 |
| 21 | b | 1235 | CLA | O2A-C1-C2 | 5.37 | 122.75 | 108.64 |
| 21 | a | 1116 | CLA | CMD-C2D-C1D | 5.37 | 134.18 | 124.71 |
| 21 | 6 | 1301 | CLA | CMD-C2D-C1D | 5.37 | 134.18 | 124.71 |
| 21 | A | 1105 | CLA | CMD-C2D-C1D | 5.37 | 134.18 | 124.71 |
| 21 | b | 1212 | CLA | CMD-C2D-C1D | 5.37 | 134.17 | 124.71 |
| 21 | 1 | 1011 | CLA | CMD-C2D-C1D | 5.37 | 134.17 | 124.71 |
| 21 | 2 | 1217 | CLA | CMD-C2D-C1D | 5.37 | 134.17 | 124.71 |
| 21 | A | 1115 | CLA | CMD-C2D-C1D | 5.36 | 134.17 | 124.71 |
| 21 | B | 1235 | CLA | CMD-C2D-C1D | 5.36 | 134.16 | 124.71 |
| 21 | B | 1229 | CLA | CMD-C2D-C1D | 5.36 | 134.16 | 124.71 |
| 21 | A | 1132 | CLA | O2A-C1-C2 | 5.36 | 122.71 | 108.64 |
| 21 | B | 1225 | CLA | O2A-C1-C2 | 5.36 | 122.71 | 108.64 |
| 21 | b | 1238 | CLA | CMD-C2D-C1D | 5.35 | 134.15 | 124.71 |
| 21 | 1 | 1118 | CLA | CMD-C2D-C1D | 5.35 | 134.15 | 124.71 |
| 21 | A | 1101 | CLA | O2A-C1-C2 | 5.35 | 122.70 | 108.64 |
| 21 | a | 1124 | CLA | CMD-C2D-C1D | 5.35 | 134.14 | 124.71 |
| 21 | A | 1117 | CLA | CMD-C2D-C1D | 5.35 | 134.14 | 124.71 |
| 21 | B | 1204 | CLA | CMD-C2D-C1D | 5.35 | 134.13 | 124.71 |
| 21 | 1 | 1125 | CLA | CMD-C2D-C1D | 5.34 | 134.12 | 124.71 |
| 21 | b | 1230 | CLA | CMD-C2D-C1D | 5.33 | 134.11 | 124.71 |
| 21 | a | 1134 | CLA | O2A-C1-C2 | 5.33 | 121.44 | 108.97 |
| 21 | B | 1232 | CLA | O2A-C1-C2 | 5.33 | 122.64 | 108.64 |
| 21 | 2 | 1223 | CLA | CMD-C2D-C1D | 5.33 | 134.10 | 124.71 |
| 21 | B | 1215 | CLA | CMD-C2D-C1D | 5.33 | 134.10 | 124.71 |
| 21 | 2 | 1236 | CLA | CMD-C2D-C1D | 5.32 | 134.09 | 124.71 |
| 21 | F | 1301 | CLA | CMD-C2D-C1D | 5.32 | 134.09 | 124.71 |
| 21 | B | 1209 | CLA | O2A-C1-C2 | 5.32 | 122.62 | 108.64 |
| 21 | a | 1132 | CLA | CMD-C2D-C1D | 5.32 | 134.09 | 124.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | a | 1105 | CLA | O2A-C1-C2 | 5.32 | 122.61 | 108.64 |
| 21 | a | 1120 | CLA | O2A-C1-C2 | 5.32 | 122.61 | 108.64 |
| 21 | 2 | 1022 | CLA | O2A-C1-C2 | 5.32 | 122.61 | 108.64 |
| 21 | a | 1106 | CLA | O2A-C1-C2 | 5.32 | 122.61 | 108.64 |
| 21 | A | 1108 | CLA | CMD-C2D-C1D | 5.31 | 134.07 | 124.71 |
| 21 | B | 1021 | CLA | CMD-C2D-C1D | 5.31 | 134.07 | 124.71 |
| 21 | f | 1302 | CLA | O2A-C1-C2 | 5.31 | 122.59 | 108.64 |
| 21 | A | 1114 | CLA | CMD-C2D-C1D | 5.31 | 134.07 | 124.71 |
| 21 | B | 1238 | CLA | CMD-C2D-C1D | 5.31 | 134.07 | 124.71 |
| 21 | J | 1302 | CLA | CMD-C2D-C1D | 5.30 | 134.06 | 124.71 |
| 21 | A | 1119 | CLA | CMD-C2D-C1D | 5.30 | 134.06 | 124.71 |
| 21 | B | 1209 | CLA | CMD-C2D-C1D | 5.30 | 134.06 | 124.71 |
| 21 | 2 | 1218 | CLA | O2A-C1-C2 | 5.30 | 122.57 | 108.64 |
| 21 | 1 | 1136 | CLA | CMD-C2D-C1D | 5.30 | 134.06 | 124.71 |
| 21 | A | 1130 | CLA | CMD-C2D-C1D | 5.30 | 134.05 | 124.71 |
| 21 | 1 | 1116 | CLA | O2A-C1-C2 | 5.29 | 122.55 | 108.64 |
| 21 | b | 1239 | CLA | CMD-C2D-C1D | 5.29 | 134.04 | 124.71 |
| 21 | b | 1210 | CLA | CMD-C2D-C1D | 5.29 | 134.03 | 124.71 |
| 21 | B | 1228 | CLA | CMD-C2D-C1D | 5.28 | 134.03 | 124.71 |
| 21 | 1 | 1137 | CLA | CMD-C2D-C1D | 5.28 | 134.03 | 124.71 |
| 21 | 2 | 1207 | CLA | CMD-C2D-C1D | 5.28 | 134.02 | 124.71 |
| 21 | a | 1118 | CLA | CMD-C2D-C1D | 5.28 | 134.02 | 124.71 |
| 21 | 1 | 1133 | CLA | CMD-C2D-C1D | 5.28 | 134.02 | 124.71 |
| 21 | b | 1221 | CLA | CMD-C2D-C1D | 5.28 | 134.02 | 124.71 |
| 21 | J | 1302 | CLA | O2A-C1-C2 | 5.28 | 122.50 | 108.64 |
| 36 | I | 4020 | EQ3 | C33-C5-C6 | -5.28 | 118.60 | 124.53 |
| 21 | 1 | 1503 | CLA | CMD-C2D-C1D | 5.27 | 134.00 | 124.71 |
| 21 | 2 | 1202 | CLA | CMD-C2D-C1D | 5.27 | 134.00 | 124.71 |
| 21 | 1 | 1801 | CLA | O2A-C1-C2 | 5.27 | 122.49 | 108.64 |
| 21 | 2 | 1216 | CLA | CMD-C2D-C1D | 5.27 | 134.00 | 124.71 |
| 21 | B | 1023 | CLA | CMD-C2D-C1D | 5.26 | 133.99 | 124.71 |
| 21 | L | 1502 | CLA | CMD-C2D-C1D | 5.26 | 133.98 | 124.71 |
| 21 | 1 | 1122 | CLA | O2A-C1-C2 | 5.26 | 122.45 | 108.64 |
| 21 | a | 1128 | CLA | O2A-C1-C2 | 5.25 | 122.44 | 108.64 |
| 21 | 1 | 1111 | CLA | O2A-C1-C2 | 5.25 | 122.44 | 108.64 |
| 21 | A | 1112 | CLA | O2A-C1-C2 | 5.25 | 122.42 | 108.64 |
| 21 | 0 | 1501 | CLA | CMD-C2D-C1D | 5.25 | 133.96 | 124.71 |
| 21 | b | 1234 | CLA | CMD-C2D-C1D | 5.24 | 133.96 | 124.71 |
| 21 | b | 1206 | CLA | O2A-C1-C2 | 5.24 | 122.42 | 108.64 |
| 21 | A | 1104 | CLA | O2A-C1-C2 | 5.24 | 122.41 | 108.64 |
| 21 | A | 1128 | CLA | CMB-C2B-C1B | -5.24 | 120.41 | 128.46 |
| 21 | 1 | 1128 | CLA | CMD-C2D-C1D | 5.24 | 133.94 | 124.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | B | 1236 | CLA | O2A-C1-C2 | 5.23 | 122.38 | 108.64 |
| 21 | 1 | 1102 | CLA | O2A-C1-C2 | 5.23 | 122.38 | 108.64 |
| 21 | B | 1236 | CLA | CMD-C2D-C1D | 5.23 | 133.93 | 124.71 |
| 21 | b | 1214 | CLA | CMD-C2D-C1D | 5.23 | 133.93 | 124.71 |
| 34 | j | 4015 | ZEX | C7-C8-C9 | -5.22 | 118.34 | 126.23 |
| 21 | 1 | 1126 | CLA | CMD-C2D-C1D | 5.22 | 133.92 | 124.71 |
| 21 | 0 | 1502 | CLA | O2A-C1-C2 | 5.22 | 122.36 | 108.64 |
| 21 | a | 1012 | CLA | O2A-C1-C2 | 5.22 | 122.35 | 108.64 |
| 21 | A | 1104 | CLA | CMD-C2D-C1D | 5.22 | 133.91 | 124.71 |
| 21 | A | 1115 | CLA | O2A-C1-C2 | 5.21 | 122.34 | 108.64 |
| 21 | b | 1204 | CLA | CMD-C2D-C1D | 5.21 | 133.90 | 124.71 |
| 21 | a | 1136 | CLA | O2D-CGD-CBD | 5.21 | 120.53 | 111.27 |
| 21 | B | 1211 | CLA | CMD-C2D-C1D | 5.21 | 133.89 | 124.71 |
| 21 | B | 1203 | CLA | CMD-C2D-C1D | 5.21 | 133.89 | 124.71 |
| 21 | j | 1303 | CLA | O2A-C1-C2 | 5.21 | 122.32 | 108.64 |
| 21 | 1 | 1132 | CLA | CMD-C2D-C1D | 5.20 | 133.88 | 124.71 |
| 21 | l | 1502 | CLA | O2A-C1-C2 | 5.20 | 122.31 | 108.64 |
| 21 | a | 1112 | CLA | O2A-C1-C2 | 5.20 | 122.30 | 108.64 |
| 21 | A | 1013 | CLA | CMD-C2D-C1D | 5.20 | 133.88 | 124.71 |
| 21 | A | 1013 | CLA | O2A-C1-C2 | 5.20 | 122.30 | 108.64 |
| 21 | 2 | 1206 | CLA | O2A-C1-C2 | 5.20 | 122.29 | 108.64 |
| 21 | 1 | 1129 | CLA | CMD-C2D-C1D | 5.20 | 133.87 | 124.71 |
| 21 | b | 1223 | CLA | CMD-C2D-C1D | 5.20 | 133.87 | 124.71 |
| 21 | A | 1126 | CLA | O2A-C1-C2 | 5.19 | 122.28 | 108.64 |
| 21 | 1 | 1012 | CLA | CMD-C2D-C1D | 5.18 | 133.85 | 124.71 |
| 21 | 2 | 1213 | CLA | O2A-C1-C2 | 5.18 | 122.24 | 108.64 |
| 21 | b | 1218 | CLA | CMD-C2D-C1D | 5.17 | 133.83 | 124.71 |
| 21 | 1 | 1129 | CLA | O2A-C1-C2 | 5.17 | 122.23 | 108.64 |
| 21 | A | 1139 | CLA | CMD-C2D-C1D | 5.17 | 133.82 | 124.71 |
| 21 | A | 1132 | CLA | CMD-C2D-C1D | 5.17 | 133.82 | 124.71 |
| 21 | b | 1220 | CLA | CMD-C2D-C1D | 5.17 | 133.82 | 124.71 |
| 21 | B | 1219 | CLA | O2A-C1-C2 | 5.17 | 122.21 | 108.64 |
| 21 | 2 | 1222 | CLA | O2A-C1-C2 | 5.16 | 122.21 | 108.64 |
| 21 | b | 1213 | CLA | O2A-C1-C2 | 5.16 | 122.20 | 108.64 |
| 21 | 1 | 1120 | CLA | O2A-C1-C2 | 5.16 | 122.19 | 108.64 |
| 21 | B | 1240 | CLA | O2A-C1-C2 | 5.15 | 122.17 | 108.64 |
| 21 | b | 1203 | CLA | O2A-C1-C2 | 5.15 | 122.17 | 108.64 |
| 21 | F | 1302 | CLA | O2A-C1-C2 | 5.15 | 122.16 | 108.64 |
| 21 | 2 | 1205 | CLA | O2A-C1-C2 | 5.15 | 122.16 | 108.64 |
| 21 | b | 1205 | CLA | CMD-C2D-C1D | 5.15 | 133.78 | 124.71 |
| 21 | b | 1236 | CLA | O2A-C1-C2 | 5.14 | 122.14 | 108.64 |
| 21 | 2 | 1214 | CLA | O2A-C1-C2 | 5.14 | 122.14 | 108.64 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | A | 1133 | CLA | CMD-C2D-C1D | 5.14 | 133.77 | 124.71 |
| 21 | A | 1106 | CLA | CMD-C2D-C1D | 5.14 | 133.76 | 124.71 |
| 21 | B | 1237 | CLA | CMD-C2D-C1D | 5.14 | 133.76 | 124.71 |
| 21 | a | 1137 | CLA | O2A-C1-C2 | 5.13 | 122.13 | 108.64 |
| 21 | a | 1113 | CLA | O2A-C1-C2 | 5.13 | 122.13 | 108.64 |
| 21 | A | 1134 | CLA | O2A-C1-C2 | 5.13 | 122.12 | 108.64 |
| 21 | L | 1503 | CLA | CMD-C2D-C1D | 5.13 | 133.75 | 124.71 |
| 25 | A | 5007 | LHG | O7-C7-C8 | 5.13 | 122.56 | 111.50 |
| 21 | 1 | 1107 | CLA | O2A-C1-C2 | 5.13 | 122.11 | 108.64 |
| 21 | b | 1240 | CLA | O2A-C1-C2 | 5.13 | 122.11 | 108.64 |
| 21 | A | 1012 | CLA | CMD-C2D-C1D | 5.13 | 133.75 | 124.71 |
| 21 | A | 1118 | CLA | CMD-C2D-C1D | 5.12 | 133.74 | 124.71 |
| 21 | 1 | 1105 | CLA | O2A-C1-C2 | 5.12 | 122.10 | 108.64 |
| 21 | 2 | 1023 | CLA | O2A-C1-C2 | 5.12 | 122.10 | 108.64 |
| 21 | 2 | 1239 | CLA | CMD-C2D-C1D | 5.12 | 133.74 | 124.71 |
| 21 | B | 1205 | CLA | CMD-C2D-C1D | 5.12 | 133.74 | 124.71 |
| 21 | 1 | 1119 | CLA | O2A-C1-C2 | 5.12 | 122.09 | 108.64 |
| 21 | b | 1023 | CLA | O2A-C1-C2 | 5.12 | 122.08 | 108.64 |
| 21 | 1 | 1139 | CLA | O2A-C1-C2 | 5.11 | 122.08 | 108.64 |
| 21 | 1 | 1101 | CLA | O2A-C1-C2 | 5.11 | 122.06 | 108.64 |
| 21 | B | 1222 | CLA | CMD-C2D-C1D | 5.11 | 133.72 | 124.71 |
| 21 | a | 1133 | CLA | O2A-C1-C2 | 5.10 | 122.04 | 108.64 |
| 21 | 0 | 1501 | CLA | O2A-C1-C2 | 5.10 | 122.04 | 108.64 |
| 21 | f | 1301 | CLA | O2A-C1-C2 | 5.10 | 122.04 | 108.64 |
| 21 | A | 1116 | CLA | CMD-C2D-C1D | 5.10 | 133.70 | 124.71 |
| 21 | 2 | 1023 | CLA | CMD-C2D-C1D | 5.10 | 133.70 | 124.71 |
| 21 | 2 | 1237 | CLA | O2A-C1-C2 | 5.09 | 122.02 | 108.64 |
| 21 | 1 | 1133 | CLA | O2A-C1-C2 | 5.09 | 122.02 | 108.64 |
| 21 | 1 | 1107 | CLA | CMD-C2D-C1D | 5.08 | 133.67 | 124.71 |
| 21 | A | 1107 | CLA | CMD-C2D-C1D | 5.08 | 133.67 | 124.71 |
| 21 | A | 1112 | CLA | CMD-C2D-C1D | 5.08 | 133.67 | 124.71 |
| 21 | b | 1203 | CLA | CMD-C2D-C1D | 5.08 | 133.66 | 124.71 |
| 21 | 0 | 1502 | CLA | CMD-C2D-C1D | 5.07 | 133.66 | 124.71 |
| 21 | A | 1011 | CLA | CHD-C1D-ND | -5.07 | 119.80 | 124.45 |
| 21 | B | 1209 | CLA | O2D-CGD-CBD | 5.06 | 120.27 | 111.27 |
| 21 | A | 1129 | CLA | O2A-C1-C2 | 5.06 | 121.94 | 108.64 |
| 21 | B | 1201 | CLA | CMD-C2D-C1D | 5.06 | 133.63 | 124.71 |
| 21 | K | 1401 | CLA | CMD-C2D-C1D | 5.06 | 133.62 | 124.71 |
| 21 | L | 1501 | CLA | O2A-C1-C2 | 5.05 | 121.92 | 108.64 |
| 21 | A | 1119 | CLA | O2A-C1-C2 | 5.05 | 121.90 | 108.64 |
| 21 | A | 1131 | CLA | O2A-C1-C2 | 5.05 | 121.90 | 108.64 |
| 21 | b | 1237 | CLA | O2A-C1-C2 | 5.04 | 121.88 | 108.64 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | b | 1205 | CLA | O2A-C1-C2 | 5.03 | 121.86 | 108.64 |
| 21 | 2 | 1221 | CLA | O2A-C1-C2 | 5.03 | 121.86 | 108.64 |
| 21 | k | 1401 | CLA | CMD-C2D-C1D | 5.03 | 133.58 | 124.71 |
| 21 | A | 1118 | CLA | O2A-C1-C2 | 5.02 | 121.84 | 108.64 |
| 21 | 2 | 1202 | CLA | O2A-C1-C2 | 5.02 | 121.84 | 108.64 |
| 21 | B | 1206 | CLA | CMD-C2D-C1D | 5.02 | 133.57 | 124.71 |
| 21 | A | 1114 | CLA | O2A-C1-C2 | 5.02 | 121.83 | 108.64 |
| 21 | B | 1223 | CLA | O2A-C1-C2 | 5.02 | 121.82 | 108.64 |
| 21 | b | 1218 | CLA | O2A-C1-C2 | 5.01 | 121.81 | 108.64 |
| 21 | L | 1502 | CLA | O2A-C1-C2 | 5.01 | 121.80 | 108.64 |
| 21 | b | 1232 | CLA | O2A-C1-C2 | 5.01 | 121.80 | 108.64 |
| 21 | B | 1208 | CLA | O2A-C1-C2 | 5.00 | 121.79 | 108.64 |
| 21 | F | 1301 | CLA | O2A-C1-C2 | 5.00 | 121.79 | 108.64 |
| 21 | B | 1212 | CLA | O2A-C1-C2 | 5.00 | 121.78 | 108.64 |
| 21 | 2 | 1217 | CLA | O2A-C1-C2 | 5.00 | 121.77 | 108.64 |
| 21 | B | 1239 | CLA | CMD-C2D-C1D | 4.99 | 133.51 | 124.71 |
| 21 | B | 1229 | CLA | CHD-C1D-ND | -4.99 | 119.87 | 124.45 |
| 21 | A | 1121 | CLA | O2A-C1-C2 | 4.99 | 121.75 | 108.64 |
| 21 | A | 1137 | CLA | CMD-C2D-C1D | 4.99 | 133.50 | 124.71 |
| 21 | 1 | 1137 | CLA | O2A-C1-C2 | 4.99 | 121.74 | 108.64 |
| 21 | A | 1140 | CLA | O2A-C1-C2 | 4.98 | 121.74 | 108.64 |
| 21 | a | 1102 | CLA | O2A-C1-C2 | 4.98 | 121.73 | 108.64 |
| 21 | A | 1801 | CLA | O2A-C1-C2 | 4.98 | 121.73 | 108.64 |
| 21 | a | 1116 | CLA | O2A-C1-C2 | 4.98 | 121.72 | 108.64 |
| 26 | a | 5004 | LMG | O7-C10-C11 | 4.98 | 122.23 | 111.50 |
| 21 | B | 1218 | CLA | O2A-C1-C2 | 4.98 | 121.72 | 108.64 |
| 21 | A | 1109 | CLA | CMD-C2D-C1D | 4.98 | 133.48 | 124.71 |
| 21 | A | 1123 | CLA | O2A-C1-C2 | 4.98 | 121.71 | 108.64 |
| 21 | B | 1225 | CLA | CMD-C2D-C1D | 4.97 | 133.48 | 124.71 |
| 21 | 2 | 1226 | CLA | O2A-C1-C2 | 4.97 | 121.69 | 108.64 |
| 21 | b | 1228 | CLA | O2A-C1-C2 | 4.96 | 121.68 | 108.64 |
| 21 | b | 1202 | CLA | CHD-C1D-ND | -4.96 | 119.89 | 124.45 |
| 21 | a | 1138 | CLA | CMD-C2D-C1D | 4.96 | 133.46 | 124.71 |
| 21 | a | 1124 | CLA | O2A-C1-C2 | 4.96 | 121.68 | 108.64 |
| 21 | a | 1132 | CLA | O2A-C1-C2 | 4.96 | 121.67 | 108.64 |
| 21 | A | 1123 | CLA | CMD-C2D-C1D | 4.96 | 133.45 | 124.71 |
| 21 | 1 | 1126 | CLA | O2A-C1-C2 | 4.96 | 121.66 | 108.64 |
| 21 | B | 1207 | CLA | CMD-C2D-C1D | 4.96 | 133.45 | 124.71 |
| 21 | J | 1303 | CLA | O2A-C1-C2 | 4.95 | 121.65 | 108.64 |
| 21 | a | 1121 | CLA | O2A-C1-C2 | 4.95 | 121.64 | 108.64 |
| 21 | b | 1237 | CLA | CMD-C2D-C1D | 4.94 | 133.42 | 124.71 |
| 21 | a | 1108 | CLA | O2A-C1-C2 | 4.94 | 121.62 | 108.64 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | A | 1136 | CLA | CMD-C2D-C1D | 4.93 | 133.40 | 124.71 |
| 21 | 2 | 1203 | CLA | O2A-C1-C2 | 4.93 | 121.58 | 108.64 |
| 21 | 1 | 1117 | CLA | O2A-C1-C2 | 4.92 | 121.57 | 108.64 |
| 21 | 2 | 1236 | CLA | O2A-C1-C2 | 4.92 | 121.57 | 108.64 |
| 21 | 2 | 1223 | CLA | O2A-C1-C2 | 4.92 | 121.56 | 108.64 |
| 21 | a | 1013 | CLA | CMD-C2D-C1D | 4.91 | 133.38 | 124.71 |
| 21 | 1 | 1130 | CLA | O2A-C1-C2 | 4.91 | 121.53 | 108.64 |
| 21 | 1 | 1127 | CLA | O2A-C1-C2 | 4.91 | 121.53 | 108.64 |
| 21 | 1 | 1109 | CLA | O2A-C1-C2 | 4.90 | 121.53 | 108.64 |
| 21 | 1 | 1134 | CLA | O2A-C1-C2 | 4.90 | 121.53 | 108.64 |
| 21 | B | 1220 | CLA | O2A-C1-C2 | 4.90 | 121.52 | 108.64 |
| 30 | 2 | 4006 | ECH | C16-C15-C14 | -4.90 | 113.44 | 123.47 |
| 21 | b | 1229 | CLA | CHD-C1D-ND | -4.90 | 119.95 | 124.45 |
| 21 | 1 | 1011 | CLA | O2A-C1-C2 | 4.90 | 121.51 | 108.64 |
| 25 | a | 5005 | LHG | O7-C7-C8 | 4.90 | 122.05 | 111.50 |
| 21 | b | 1225 | CLA | CMD-C2D-C1D | 4.89 | 133.33 | 124.71 |
| 21 | B | 1224 | CLA | O2A-C1-C2 | 4.89 | 121.48 | 108.64 |
| 21 | 1 | 1110 | CLA | O2A-C1-C2 | 4.88 | 121.47 | 108.64 |
| 21 | 1 | 1121 | CLA | O2A-C1-C2 | 4.88 | 121.45 | 108.64 |
| 21 | a | 1139 | CLA | O2A-C1-C2 | 4.87 | 121.43 | 108.64 |
| 21 | B | 1022 | CLA | O2A-C1-C2 | 4.86 | 121.42 | 108.64 |
| 21 | b | 1207 | CLA | CMD-C2D-C1D | 4.85 | 133.27 | 124.71 |
| 21 | 2 | 1224 | CLA | O2A-C1-C2 | 4.85 | 121.38 | 108.64 |
| 21 | 2 | 1228 | CLA | O2D-CGD-CBD | 4.84 | 119.88 | 111.27 |
| 21 | a | 1130 | CLA | O2A-C1-C2 | 4.83 | 121.34 | 108.64 |
| 21 | a | 1135 | CLA | CHD-C1D-ND | -4.83 | 120.01 | 124.45 |
| 21 | b | 1222 | CLA | O2A-C1-C2 | 4.82 | 121.29 | 108.64 |
| 21 | b | 1023 | CLA | CHD-C1D-ND | -4.82 | 120.03 | 124.45 |
| 26 | K | 5009 | LMG | O7-C10-C11 | 4.81 | 121.88 | 111.50 |
| 21 | A | 1108 | CLA | O2A-C1-C2 | 4.81 | 121.28 | 108.64 |
| 21 | 2 | 1210 | CLA | O2A-C1-C2 | 4.81 | 121.28 | 108.64 |
| 21 | A | 1128 | CLA | CMD-C2D-C1D | 4.80 | 133.18 | 124.71 |
| 21 | A | 1126 | CLA | CMD-C2D-C1D | 4.79 | 133.16 | 124.71 |
| 21 | 6 | 1302 | CLA | O2D-CGD-CBD | 4.79 | 119.78 | 111.27 |
| 21 | a | 1011 | CLA | CMD-C2D-C1D | 4.79 | 133.15 | 124.71 |
| 21 | 1 | 1136 | CLA | O2A-C1-C2 | 4.79 | 121.22 | 108.64 |
| 21 | 1 | 1127 | CLA | CMD-C2D-C1D | 4.78 | 133.14 | 124.71 |
| 21 | B | 1205 | CLA | O2A-C1-C2 | 4.78 | 121.20 | 108.64 |
| 21 | B | 1217 | CLA | O2A-C1-C2 | 4.78 | 121.19 | 108.64 |
| 21 | b | 1223 | CLA | O2A-C1-C2 | 4.78 | 121.19 | 108.64 |
| 34 | 7 | 4015 | ZEX | C7-C8-C9 | -4.78 | 119.02 | 126.23 |
| 21 | B | 1226 | CLA | O2A-C1-C2 | 4.77 | 121.18 | 108.64 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | a | 1104 | CLA | O2A-C1-C2 | 4.77 | 121.17 | 108.64 |
| 21 | A | 1113 | CLA | O2A-C1-C2 | 4.77 | 121.17 | 108.64 |
| 34 | 7 | 4015 | ZEX | C38-C24-C23 | 4.76 | 119.57 | 112.20 |
| 21 | a | 1012 | CLA | CMD-C2D-C1D | 4.76 | 133.10 | 124.71 |
| 21 | a | 1128 | CLA | CMD-C2D-C1D | 4.75 | 133.08 | 124.71 |
| 21 | a | 1111 | CLA | O2A-C1-C2 | 4.75 | 121.11 | 108.64 |
| 21 | B | 1222 | CLA | O2A-C1-C2 | 4.75 | 121.11 | 108.64 |
| 21 | 1 | 1103 | CLA | O2A-C1-C2 | 4.74 | 121.10 | 108.64 |
| 21 | A | 1103 | CLA | O2A-C1-C2 | 4.74 | 121.09 | 108.64 |
| 30 | b | 4011 | ECH | C7-C8-C9 | -4.74 | 119.08 | 126.23 |
| 21 | a | 1131 | CLA | O2A-C1-C2 | 4.73 | 121.06 | 108.64 |
| 30 | b | 4006 | ECH | C33-C5-C6 | -4.72 | 119.22 | 124.53 |
| 21 | 2 | 1221 | CLA | O2D-CGD-CBD | 4.72 | 119.66 | 111.27 |
| 21 | 1 | 1104 | CLA | O2A-C1-C2 | 4.71 | 121.02 | 108.64 |
| 21 | a | 1128 | CLA | CMB-C2B-C1B | -4.71 | 121.22 | 128.46 |
| 21 | a | 1136 | CLA | O2A-C1-C2 | 4.71 | 121.01 | 108.64 |
| 21 | 1 | 1123 | CLA | O2A-C1-C2 | 4.71 | 121.01 | 108.64 |
| 21 | A | 1127 | CLA | CMD-C2D-C1D | 4.70 | 133.00 | 124.71 |
| 21 | 2 | 1211 | CLA | O2A-C1-C2 | 4.70 | 120.98 | 108.64 |
| 21 | A | 1133 | CLA | O2A-C1-C2 | 4.69 | 120.97 | 108.64 |
| 21 | B | 1201 | CLA | O2A-C1-C2 | 4.69 | 120.97 | 108.64 |
| 21 | A | 1102 | CLA | O2A-C1-C2 | 4.69 | 120.97 | 108.64 |
| 30 | b | 4006 | ECH | C7-C8-C9 | -4.69 | 119.15 | 126.23 |
| 21 | 1 | 1501 | CLA | O2A-C1-C2 | 4.69 | 120.95 | 108.64 |
| 21 | A | 1120 | CLA | CHD-C1D-ND | -4.68 | 120.15 | 124.45 |
| 21 | 2 | 1208 | CLA | O2A-C1-C2 | 4.67 | 120.92 | 108.64 |
| 21 | 1 | 1013 | CLA | CMD-C2D-C1D | 4.67 | 132.95 | 124.71 |
| 21 | a | 1119 | CLA | O2A-C1-C2 | 4.67 | 120.90 | 108.64 |
| 21 | B | 1202 | CLA | CHD-C1D-ND | -4.67 | 120.17 | 124.45 |
| 21 | B | 1204 | CLA | O2A-C1-C2 | 4.66 | 120.88 | 108.64 |
| 21 | 2 | 1219 | CLA | O2A-C1-C2 | 4.66 | 120.87 | 108.64 |
| 21 | B | 1221 | CLA | O2A-C1-C2 | 4.65 | 120.87 | 108.64 |
| 21 | A | 1105 | CLA | O2A-C1-C2 | 4.65 | 120.86 | 108.64 |
| 21 | 2 | 1023 | CLA | CHD-C1D-ND | -4.65 | 120.18 | 124.45 |
| 21 | B | 1022 | CLA | CMD-C2D-C1D | 4.64 | 132.90 | 124.71 |
| 30 | B | 4006 | ECH | C33-C5-C6 | -4.64 | 119.31 | 124.53 |
| 22 | B | 2002 | PQN | C11-C12-C13 | -4.64 | 119.06 | 126.79 |
| 21 | K | 1402 | CLA | CHD-C1D-ND | -4.64 | 120.19 | 124.45 |
| 21 | b | 1221 | CLA | O2A-C1-C2 | 4.64 | 120.82 | 108.64 |
| 21 | 2 | 1229 | CLA | O2A-C1-C2 | 4.63 | 120.81 | 108.64 |
| 30 | b | 4006 | ECH | C24-C23-C22 | -4.63 | 119.23 | 126.23 |
| 21 | b | 1214 | CLA | O2A-C1-C2 | 4.63 | 120.79 | 108.64 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | 2 | 1238 | CLA | O2A-C1-C2 | 4.62 | 120.78 | 108.64 |
| 21 | A | 1137 | CLA | O2A-C1-C2 | 4.62 | 120.78 | 108.64 |
| 21 | a | 1117 | CLA | O2A-C1-C2 | 4.62 | 120.78 | 108.64 |
| 21 | 1 | 1118 | CLA | O2A-C1-C2 | 4.62 | 120.78 | 108.64 |
| 21 | B | 1229 | CLA | O2A-C1-C2 | 4.61 | 120.75 | 108.64 |
| 21 | a | 1103 | CLA | O2A-C1-C2 | 4.61 | 120.74 | 108.64 |
| 21 | 2 | 1207 | CLA | CHD-C1D-ND | -4.60 | 120.22 | 124.45 |
| 21 | b | 1221 | CLA | O2D-CGD-CBD | 4.60 | 119.45 | 111.27 |
| 21 | A | 1127 | CLA | O2A-C1-C2 | 4.60 | 120.72 | 108.64 |
| 21 | b | 1212 | CLA | O2A-C1-C2 | 4.60 | 120.72 | 108.64 |
| 21 | a | 1116 | CLA | CHD-C1D-ND | -4.59 | 120.24 | 124.45 |
| 34 | J | 4015 | ZEX | C7-C8-C9 | -4.59 | 119.31 | 126.23 |
| 21 | 1 | 1106 | CLA | O2A-C1-C2 | 4.57 | 120.66 | 108.64 |
| 21 | A | 1122 | CLA | O2A-C1-C2 | 4.56 | 120.63 | 108.64 |
| 21 | A | 1103 | CLA | CHD-C1D-ND | -4.56 | 120.26 | 124.45 |
| 21 | B | 1211 | CLA | O2A-C1-C2 | 4.56 | 120.62 | 108.64 |
| 24 | 6 | 4016 | BCR | C35-C13-C14 | -4.56 | 116.54 | 122.92 |
| 21 | B | 1231 | CLA | CHD-C1D-ND | -4.56 | 120.27 | 124.45 |
| 21 | b | 1229 | CLA | O2A-C1-C2 | 4.55 | 120.58 | 108.64 |
| 21 | 2 | 1201 | CLA | O2A-C1-C2 | 4.54 | 120.57 | 108.64 |
| 21 | b | 1202 | CLA | O2A-C1-C2 | 4.53 | 120.55 | 108.64 |
| 21 | b | 1021 | CLA | CMD-C2D-C1D | 4.53 | 132.70 | 124.71 |
| 21 | B | 1227 | CLA | O2A-C1-C2 | 4.52 | 120.53 | 108.64 |
| 21 | a | 1134 | CLA | CHD-C1D-ND | -4.52 | 120.30 | 124.45 |
| 21 | A | 1135 | CLA | CHD-C1D-ND | -4.52 | 120.30 | 124.45 |
| 21 | 1 | 1124 | CLA | O2A-C1-C2 | 4.52 | 120.51 | 108.64 |
| 21 | b | 1206 | CLA | CMD-C2D-C1D | 4.51 | 132.67 | 124.71 |
| 21 | B | 1210 | CLA | O2A-C1-C2 | 4.51 | 120.50 | 108.64 |
| 21 | b | 1226 | CLA | CHD-C1D-ND | -4.51 | 120.31 | 124.45 |
| 21 | B | 1229 | CLA | C2D-C1D-ND | 4.51 | 113.42 | 110.10 |
| 30 | i | 4020 | ECH | C15-C16-C17 | -4.50 | 114.25 | 123.47 |
| 21 | B | 1021 | CLA | O2A-C1-C2 | 4.50 | 120.47 | 108.64 |
| 21 | A | 1131 | CLA | CHD-C1D-ND | -4.50 | 120.32 | 124.45 |
| 21 | a | 1109 | CLA | O2A-C1-C2 | 4.50 | 120.47 | 108.64 |
| 21 | a | 1801 | CLA | O2A-C1-C2 | 4.50 | 120.46 | 108.64 |
| 21 | A | 1110 | CLA | O2A-C1-C2 | 4.49 | 120.44 | 108.64 |
| 21 | 2 | 1207 | CLA | O2A-C1-C2 | 4.48 | 120.42 | 108.64 |
| 21 | A | 1139 | CLA | O2A-C1-C2 | 4.48 | 120.42 | 108.64 |
| 21 | B | 1226 | CLA | CMB-C2B-C1B | -4.48 | 121.58 | 128.46 |
| 21 | a | 1123 | CLA | CHD-C1D-ND | -4.48 | 120.34 | 124.45 |
| 21 | a | 1011 | CLA | O2A-C1-C2 | 4.48 | 120.40 | 108.64 |
| 21 | b | 1210 | CLA | O2A-C1-C2 | 4.47 | 120.39 | 108.64 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 36 | I | 4020 | EQ3 | C16-C17-C18 | -4.47 | 120.93 | 127.31 |
| 21 | 2 | 1204 | CLA | CHD-C1D-ND | -4.46 | 120.36 | 124.45 |
| 21 | a | 1101 | CLA | CHD-C1D-ND | -4.46 | 120.36 | 124.45 |
| 21 | A | 1136 | CLA | O2A-C1-C2 | 4.45 | 120.33 | 108.64 |
| 21 | 2 | 1202 | CLA | CHD-C1D-ND | -4.45 | 120.36 | 124.45 |
| 21 | B | 1240 | CLA | O2D-CGD-CBD | 4.45 | 119.17 | 111.27 |
| 21 | A | 1117 | CLA | O2A-C1-C2 | 4.43 | 120.29 | 108.64 |
| 30 | B | 4006 | ECH | C20-C21-C22 | -4.42 | 121.00 | 127.31 |
| 21 | K | 1401 | CLA | CMB-C2B-C1B | -4.42 | 121.67 | 128.46 |
| 21 | B | 1228 | CLA | O2A-C1-C2 | 4.42 | 120.24 | 108.64 |
| 30 | b | 4011 | ECH | C12-C13-C14 | 4.41 | 125.71 | 118.94 |
| 21 | 2 | 1216 | CLA | O2A-C1-C2 | 4.41 | 120.23 | 108.64 |
| 21 | 1 | 1135 | CLA | CHD-C1D-ND | -4.41 | 120.40 | 124.45 |
| 26 | b | 5005 | LMG | O7-C10-C11 | 4.40 | 120.99 | 111.50 |
| 21 | 1 | 1108 | CLA | CHD-C1D-ND | -4.40 | 120.41 | 124.45 |
| 21 | a | 1013 | CLA | O2A-C1-C2 | 4.39 | 120.18 | 108.64 |
| 21 | b | 1231 | CLA | CHD-C1D-ND | -4.39 | 120.42 | 124.45 |
| 30 | 2 | 4006 | ECH | C33-C5-C6 | -4.39 | 119.60 | 124.53 |
| 21 | 2 | 1021 | CLA | O2A-C1-C2 | 4.39 | 120.16 | 108.64 |
| 21 | b | 1227 | CLA | O2A-C1-C2 | 4.39 | 120.16 | 108.64 |
| 21 | B | 1214 | CLA | O2A-C1-C2 | 4.38 | 120.15 | 108.64 |
| 25 | A | 5006 | LHG | O7-C7-C8 | 4.38 | 120.94 | 111.50 |
| 21 | a | 1123 | CLA | O2A-C1-C2 | 4.38 | 120.15 | 108.64 |
| 21 | b | 1230 | CLA | O2A-C1-C2 | 4.38 | 120.14 | 108.64 |
| 21 | b | 1238 | CLA | O2A-C1-C2 | 4.37 | 120.12 | 108.64 |
| 30 | 2 | 4006 | ECH | C7-C8-C9 | -4.37 | 119.63 | 126.23 |
| 21 | B | 1203 | CLA | O2A-C1-C2 | 4.37 | 120.12 | 108.64 |
| 21 | j | 1302 | CLA | O2A-C1-C2 | 4.37 | 120.11 | 108.64 |
| 21 | 2 | 1231 | CLA | CHD-C1D-ND | -4.36 | 120.44 | 124.45 |
| 21 | B | 1221 | CLA | O2D-CGD-CBD | 4.35 | 119.00 | 111.27 |
| 25 | 1 | 5007 | LHG | O7-C7-C8 | 4.35 | 120.88 | 111.50 |
| 25 | 1 | 5005 | LHG | O7-C7-C8 | 4.35 | 120.87 | 111.50 |
| 21 | A | 1101 | CLA | CHD-C1D-ND | -4.35 | 120.46 | 124.45 |
| 21 | b | 1022 | CLA | O2A-C1-C2 | 4.34 | 120.05 | 108.64 |
| 21 | 1 | 1131 | CLA | CHD-C1D-ND | -4.34 | 120.47 | 124.45 |
| 30 | b | 4006 | ECH | C15-C14-C13 | -4.33 | 121.14 | 127.31 |
| 21 | A | 1124 | CLA | CHD-C1D-ND | -4.32 | 120.48 | 124.45 |
| 25 | a | 5001 | LHG | O7-C7-C8 | 4.32 | 120.80 | 111.50 |
| 21 | L | 1501 | CLA | CMD-C2D-C1D | 4.32 | 132.32 | 124.71 |
| 21 | B | 1237 | CLA | O2A-C1-C2 | 4.31 | 119.96 | 108.64 |
| 21 | b | 1222 | CLA | CHD-C1D-ND | -4.31 | 120.50 | 124.45 |
| 30 | m | 4021 | ECH | C20-C21-C22 | -4.31 | 121.17 | 127.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 28 | h | 4020 | 45D | C41-C37-C35 | -4.30 | 121.18 | 127.31 |
| 25 | B | 5004 | LHG | O7-C7-C8 | 4.29 | 120.75 | 111.50 |
| 26 | A | 5002 | LMG | O7-C10-C11 | 4.29 | 120.75 | 111.50 |
| 21 | b | 1215 | CLA | CHD-C1D-ND | -4.28 | 120.52 | 124.45 |
| 21 | 1 | 1104 | CLA | CHD-C1D-ND | -4.28 | 120.52 | 124.45 |
| 25 | l | 5001 | LHG | O7-C7-C8 | 4.28 | 120.73 | 111.50 |
| 21 | b | 1224 | CLA | O2A-C1-C2 | 4.28 | 119.88 | 108.64 |
| 21 | 1 | 1129 | CLA | O2D-CGD-CBD | 4.28 | 118.87 | 111.27 |
| 37 | L | 5004 | DGD | O2G-C1B-C2B | 4.28 | 120.72 | 111.50 |
| 25 | A | 5005 | LHG | O7-C7-C8 | 4.28 | 120.72 | 111.50 |
| 21 | b | 1236 | CLA | CHD-C1D-ND | -4.28 | 120.52 | 124.45 |
| 21 | 2 | 1205 | CLA | O2D-CGD-CBD | 4.27 | 118.86 | 111.27 |
| 21 | 2 | 1213 | CLA | O2D-CGD-CBD | 4.27 | 118.86 | 111.27 |
| 21 | B | 1205 | CLA | O2D-CGD-CBD | 4.27 | 118.86 | 111.27 |
| 21 | 1 | 1137 | CLA | CHD-C1D-ND | -4.27 | 120.53 | 124.45 |
| 21 | 2 | 1204 | CLA | O2A-C1-C2 | 4.26 | 119.84 | 108.64 |
| 21 | B | 1207 | CLA | O2A-C1-C2 | 4.26 | 119.82 | 108.64 |
| 21 | B | 1219 | CLA | CHD-C1D-ND | -4.26 | 120.54 | 124.45 |
| 26 | A | 5008 | LMG | O7-C10-C11 | 4.25 | 120.66 | 111.50 |
| 24 | f | 4016 | BCR | C35-C13-C14 | -4.25 | 116.97 | 122.92 |
| 34 | j | 4015 | ZEX | C28-C27-C26 | -4.25 | 119.83 | 127.09 |
| 21 | B | 1234 | CLA | CHD-C1D-ND | -4.25 | 120.55 | 124.45 |
| 21 | A | 1116 | CLA | CHD-C1D-ND | -4.24 | 120.55 | 124.45 |
| 21 | 1 | 1801 | CLA | CHD-C1D-ND | -4.24 | 120.56 | 124.45 |
| 21 | 1 | 1129 | CLA | CMB-C2B-C1B | -4.23 | 121.96 | 128.46 |
| 21 | A | 1108 | CLA | CHD-C1D-ND | -4.22 | 120.57 | 124.45 |
| 26 | b | 5002 | LMG | O7-C10-C11 | 4.21 | 120.58 | 111.50 |
| 21 | 2 | 1202 | CLA | O2D-CGD-CBD | 4.21 | 118.75 | 111.27 |
| 21 | 1 | 1123 | CLA | CHD-C1D-ND | -4.21 | 120.58 | 124.45 |
| 25 | 1 | 5003 | LHG | O7-C7-C8 | 4.21 | 120.58 | 111.50 |
| 21 | 2 | 1208 | CLA | CHD-C1D-ND | -4.19 | 120.60 | 124.45 |
| 21 | b | 1229 | CLA | C2D-C1D-ND | 4.19 | 113.19 | 110.10 |
| 24 | B | 4014 | BCR | C15-C14-C13 | 4.19 | 133.29 | 127.31 |
| 21 | b | 1216 | CLA | CHD-C1D-ND | -4.19 | 120.60 | 124.45 |
| 21 | 1 | 1101 | CLA | CHD-C1D-ND | -4.19 | 120.60 | 124.45 |
| 21 | B | 1238 | CLA | CHD-C1D-ND | -4.19 | 120.61 | 124.45 |
| 21 | K | 1401 | CLA | CHD-C1D-ND | -4.19 | 120.61 | 124.45 |
| 21 | 2 | 1235 | CLA | CHD-C1D-ND | -4.19 | 120.61 | 124.45 |
| 25 | 2 | 5004 | LHG | O7-C7-C8 | 4.18 | 120.52 | 111.50 |
| 21 | b | 1239 | CLA | CHD-C1D-ND | -4.17 | 120.62 | 124.45 |
| 21 | 1 | 1129 | CLA | CHD-C1D-ND | -4.17 | 120.62 | 124.45 |
| 21 | a | 1121 | CLA | CHD-C1D-ND | -4.17 | 120.62 | 124.45 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | B | 1202 | CLA | O2A-C1-C2 | 4.16 | 119.58 | 108.64 |
| 21 | B | 1232 | CLA | CHD-C1D-ND | -4.16 | 120.63 | 124.45 |
| 21 | b | 1230 | CLA | O2D-CGD-CBD | 4.16 | 118.67 | 111.27 |
| 21 | b | 1217 | CLA | O2A-C1-C2 | 4.16 | 119.57 | 108.64 |
| 21 | K | 1402 | CLA | O2D-CGD-CBD | 4.16 | 118.65 | 111.27 |
| 21 | 2 | 1232 | CLA | CHD-C1D-ND | -4.15 | 120.64 | 124.45 |
| 21 | B | 1023 | CLA | CHD-C1D-ND | -4.15 | 120.64 | 124.45 |
| 21 | a | 1102 | CLA | O2D-CGD-CBD | 4.15 | 118.64 | 111.27 |
| 25 | l | 5004 | LHG | O7-C7-C8 | 4.14 | 120.43 | 111.50 |
| 21 | a | 1128 | CLA | O2D-CGD-CBD | 4.14 | 118.62 | 111.27 |
| 21 | 1 | 1120 | CLA | CHD-C1D-ND | -4.14 | 120.65 | 124.45 |
| 21 | A | 1013 | CLA | CHD-C1D-ND | -4.13 | 120.66 | 124.45 |
| 25 | 1 | 5001 | LHG | O7-C7-C8 | 4.13 | 120.40 | 111.50 |
| 21 | A | 1135 | CLA | CMB-C2B-C1B | -4.13 | 122.12 | 128.46 |
| 25 | B | 5006 | LHG | O7-C7-C8 | 4.13 | 120.39 | 111.50 |
| 21 | 2 | 1022 | CLA | CMB-C2B-C1B | -4.13 | 122.12 | 128.46 |
| 21 | A | 1121 | CLA | CHD-C1D-ND | -4.12 | 120.67 | 124.45 |
| 21 | B | 1238 | CLA | C2D-C1D-ND | 4.12 | 113.14 | 110.10 |
| 21 | b | 1021 | CLA | O2A-C1-C2 | 4.12 | 119.45 | 108.64 |
| 21 | 2 | 1211 | CLA | O2D-CGD-CBD | 4.11 | 118.57 | 111.27 |
| 21 | 1 | 1103 | CLA | CHD-C1D-ND | -4.11 | 120.68 | 124.45 |
| 21 | b | 1204 | CLA | CHD-C1D-ND | -4.11 | 120.68 | 124.45 |
| 21 | a | 1012 | CLA | C2D-C1D-ND | 4.10 | 113.13 | 110.10 |
| 28 | h | 4020 | 45D | C28-C26-C30 | 4.10 | 128.67 | 122.92 |
| 21 | 1 | 1131 | CLA | O2A-C1-C2 | 4.10 | 119.42 | 108.64 |
| 21 | b | 1240 | CLA | CHD-C1D-ND | -4.10 | 120.69 | 124.45 |
| 30 | b | 4011 | ECH | C24-C23-C22 | -4.10 | 120.05 | 126.23 |
| 21 | 2 | 1209 | CLA | CHD-C1D-ND | -4.09 | 120.69 | 124.45 |
| 21 | 1 | 1128 | CLA | CMB-C2B-C1B | -4.09 | 122.18 | 128.46 |
| 21 | b | 1211 | CLA | O2A-C1-C2 | 4.09 | 119.38 | 108.64 |
| 21 | K | 1402 | CLA | O2A-C1-C2 | 4.08 | 119.36 | 108.64 |
| 21 | 1 | 1123 | CLA | O2D-CGD-CBD | 4.08 | 118.51 | 111.27 |
| 21 | b | 1234 | CLA | CHD-C1D-ND | -4.07 | 120.71 | 124.45 |
| 21 | 2 | 1203 | CLA | CHD-C1D-ND | -4.07 | 120.71 | 124.45 |
| 25 | l | 5002 | LHG | O7-C7-C8 | 4.07 | 120.27 | 111.50 |
| 21 | a | 1013 | CLA | CHD-C1D-ND | -4.07 | 120.72 | 124.45 |
| 21 | 2 | 1206 | CLA | CHD-C1D-ND | -4.06 | 120.72 | 124.45 |
| 22 | 2 | 2002 | PQN | C11-C12-C13 | -4.06 | 120.03 | 126.79 |
| 21 | 6 | 1302 | CLA | CMB-C2B-C1B | -4.06 | 122.22 | 128.46 |
| 21 | b | 1234 | CLA | O2D-CGD-CBD | 4.06 | 118.48 | 111.27 |
| 21 | a | 1131 | CLA | CHD-C1D-ND | -4.06 | 120.72 | 124.45 |
| 21 | b | 1224 | CLA | CHD-C1D-ND | -4.06 | 120.72 | 124.45 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | b | 1212 | CLA | O2D-CGD-CBD | 4.06 | 118.48 | 111.27 |
| 21 | B | 1213 | CLA | O2D-CGD-CBD | 4.06 | 118.48 | 111.27 |
| 21 | a | 1125 | CLA | CHD-C1D-ND | -4.06 | 120.73 | 124.45 |
| 21 | 2 | 1206 | CLA | CMB-C2B-C1B | -4.06 | 122.23 | 128.46 |
| 25 | 0 | 5004 | LHG | O7-C7-C8 | 4.06 | 120.24 | 111.50 |
| 21 | L | 1503 | CLA | CHD-C1D-ND | -4.05 | 120.73 | 124.45 |
| 21 | 7 | 1302 | CLA | CHD-C1D-ND | -4.05 | 120.73 | 124.45 |
| 25 | b | 5004 | LHG | O7-C7-C8 | 4.05 | 120.23 | 111.50 |
| 26 | B | 5005 | LMG | O7-C10-C11 | 4.05 | 120.23 | 111.50 |
| 21 | a | 1106 | CLA | O2D-CGD-CBD | 4.05 | 118.46 | 111.27 |
| 30 | m | 4021 | ECH | C7-C8-C9 | -4.05 | 120.12 | 126.23 |
| 26 | 1 | 5002 | LMG | O7-C10-C11 | 4.04 | 120.22 | 111.50 |
| 21 | B | 1202 | CLA | CMB-C2B-C1B | -4.04 | 122.25 | 128.46 |
| 21 | f | 1302 | CLA | CHD-C1D-ND | -4.04 | 120.74 | 124.45 |
| 21 | 2 | 1230 | CLA | O2D-CGD-CBD | 4.04 | 118.44 | 111.27 |
| 21 | a | 1103 | CLA | CHD-C1D-ND | -4.04 | 120.74 | 124.45 |
| 21 | A | 1138 | CLA | CHD-C1D-ND | -4.04 | 120.75 | 124.45 |
| 21 | 1 | 1116 | CLA | CHD-C1D-ND | -4.03 | 120.75 | 124.45 |
| 21 | F | 1302 | CLA | CHD-C1D-ND | -4.03 | 120.75 | 124.45 |
| 21 | 1 | 1013 | CLA | CHD-C1D-ND | -4.03 | 120.75 | 124.45 |
| 21 | b | 1205 | CLA | O2D-CGD-CBD | 4.03 | 118.43 | 111.27 |
| 25 | a | 5003 | LHG | O7-C7-C8 | 4.03 | 120.18 | 111.50 |
| 21 | a | 1124 | CLA | C2D-C1D-ND | 4.02 | 113.07 | 110.10 |
| 21 | b | 1211 | CLA | CHD-C1D-ND | -4.02 | 120.76 | 124.45 |
| 21 | l | 1503 | CLA | CHD-C1D-ND | -4.02 | 120.76 | 124.45 |
| 26 | a | 5002 | LMG | O7-C10-C11 | 4.02 | 120.16 | 111.50 |
| 21 | 2 | 1215 | CLA | CHD-C1D-ND | -4.02 | 120.76 | 124.45 |
| 21 | 2 | 1234 | CLA | CHD-C1D-ND | -4.02 | 120.76 | 124.45 |
| 21 | 2 | 1022 | CLA | CHD-C1D-ND | -4.01 | 120.77 | 124.45 |
| 21 | B | 1221 | CLA | CHD-C1D-ND | -4.00 | 120.77 | 124.45 |
| 21 | a | 1122 | CLA | CHD-C1D-ND | -4.00 | 120.77 | 124.45 |
| 21 | 1 | 1133 | CLA | O2D-CGD-CBD | 3.99 | 118.36 | 111.27 |
| 34 | j | 4015 | ZEX | C31-C32-C33 | -3.99 | 115.21 | 126.42 |
| 21 | 1 | 1128 | CLA | O2D-CGD-CBD | 3.99 | 118.35 | 111.27 |
| 21 | 2 | 1222 | CLA | CMB-C2B-C1B | -3.99 | 122.34 | 128.46 |
| 21 | 2 | 1212 | CLA | CHD-C1D-ND | -3.98 | 120.79 | 124.45 |
| 21 | F | 1302 | CLA | O2D-CGD-CBD | 3.98 | 118.34 | 111.27 |
| 21 | B | 1238 | CLA | C1D-ND-C4D | -3.98 | 103.51 | 106.33 |
| 21 | A | 1012 | CLA | CMB-C2B-C1B | -3.98 | 122.35 | 128.46 |
| 21 | A | 1801 | CLA | O2D-CGD-CBD | 3.98 | 118.34 | 111.27 |
| 21 | b | 1235 | CLA | CHD-C1D-ND | -3.98 | 120.80 | 124.45 |
| 21 | a | 1130 | CLA | CHD-C1D-ND | -3.98 | 120.80 | 124.45 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | 1 | 1132 | CLA | O2D-CGD-CBD | 3.97 | 118.33 | 111.27 |
| 21 | 0 | 1503 | CLA | CHD-C1D-ND | -3.97 | 120.80 | 124.45 |
| 21 | j | 1302 | CLA | O2D-CGD-CBD | 3.97 | 118.33 | 111.27 |
| 21 | A | 1129 | CLA | CHD-C1D-ND | -3.97 | 120.80 | 124.45 |
| 21 | A | 1116 | CLA | O2A-C1-C2 | 3.97 | 119.07 | 108.64 |
| 21 | B | 1216 | CLA | CHD-C1D-ND | -3.97 | 120.81 | 124.45 |
| 30 | b | 4011 | ECH | C28-C27-C26 | -3.97 | 114.99 | 118.65 |
| 21 | B | 1215 | CLA | O2A-C1-C2 | 3.97 | 119.06 | 108.64 |
| 21 | b | 1219 | CLA | CHD-C1D-ND | -3.96 | 120.81 | 124.45 |
| 21 | B | 1208 | CLA | CHD-C1D-ND | -3.96 | 120.82 | 124.45 |
| 21 | B | 1215 | CLA | CHD-C1D-ND | -3.96 | 120.82 | 124.45 |
| 21 | 2 | 1225 | CLA | CHD-C1D-ND | -3.96 | 120.82 | 124.45 |
| 21 | 1 | 1113 | CLA | CHD-C1D-ND | -3.96 | 120.82 | 124.45 |
| 21 | 2 | 1201 | CLA | CHD-C1D-ND | -3.96 | 120.82 | 124.45 |
| 30 | M | 4021 | ECH | C33-C5-C6 | -3.96 | 120.09 | 124.53 |
| 30 | M | 4021 | ECH | C24-C23-C22 | -3.95 | 120.26 | 126.23 |
| 21 | b | 1225 | CLA | CHD-C1D-ND | -3.95 | 120.82 | 124.45 |
| 21 | A | 1133 | CLA | CHD-C1D-ND | -3.95 | 120.83 | 124.45 |
| 21 | B | 1230 | CLA | O2D-CGD-CBD | 3.95 | 118.28 | 111.27 |
| 21 | A | 1102 | CLA | O2D-CGD-CBD | 3.95 | 118.28 | 111.27 |
| 21 | a | 1132 | CLA | O2D-CGD-CBD | 3.95 | 118.28 | 111.27 |
| 26 | 1 | 5004 | LMG | O7-C10-C11 | 3.94 | 120.00 | 111.50 |
| 35 | l | 6001 | LMT | O5B-C5B-C4B | 3.94 | 116.85 | 109.69 |
| 28 | B | 4011 | 45D | C42-C38-C36 | -3.94 | 121.69 | 127.31 |
| 21 | a | 1013 | CLA | O2D-CGD-CBD | 3.94 | 118.27 | 111.27 |
| 21 | b | 1230 | CLA | C2D-C1D-ND | 3.94 | 113.00 | 110.10 |
| 21 | l | 1502 | CLA | C2D-C1D-ND | 3.94 | 113.00 | 110.10 |
| 21 | 2 | 1240 | CLA | C1D-ND-C4D | -3.93 | 103.54 | 106.33 |
| 21 | 1 | 1121 | CLA | CHD-C1D-ND | -3.93 | 120.84 | 124.45 |
| 21 | 2 | 1221 | CLA | CHD-C1D-ND | -3.93 | 120.84 | 124.45 |
| 21 | J | 1303 | CLA | O2D-CGD-CBD | 3.93 | 118.26 | 111.27 |
| 21 | 2 | 1205 | CLA | CHD-C1D-ND | -3.93 | 120.84 | 124.45 |
| 21 | a | 1107 | CLA | CHD-C1D-ND | -3.93 | 120.84 | 124.45 |
| 21 | a | 1129 | CLA | CHD-C1D-ND | -3.93 | 120.84 | 124.45 |
| 21 | 6 | 1302 | CLA | CHD-C1D-ND | -3.92 | 120.85 | 124.45 |
| 30 | M | 4021 | ECH | C7-C8-C9 | -3.92 | 120.31 | 126.23 |
| 21 | 1 | 1119 | CLA | CHD-C1D-ND | -3.92 | 120.85 | 124.45 |
| 21 | A | 1124 | CLA | O2D-CGD-CBD | 3.92 | 118.23 | 111.27 |
| 21 | K | 1401 | CLA | O2D-CGD-CBD | 3.92 | 118.23 | 111.27 |
| 21 | 1 | 1130 | CLA | CHD-C1D-ND | -3.92 | 120.86 | 124.45 |
| 21 | b | 1227 | CLA | O2D-CGD-CBD | 3.92 | 118.23 | 111.27 |
| 21 | 1 | 1118 | CLA | CHD-C1D-ND | -3.91 | 120.86 | 124.45 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 30 | i | 4020 | ECH | C10-C11-C12 | -3.91 | 111.01 | 123.22 |
| 25 | A | 5003 | LHG | O7-C7-C8 | 3.91 | 119.93 | 111.50 |
| 21 | b | 1226 | CLA | O2D-CGD-CBD | 3.91 | 118.22 | 111.27 |
| 21 | 1 | 1102 | CLA | O2D-CGD-CBD | 3.91 | 118.21 | 111.27 |
| 21 | A | 1110 | CLA | CHD-C1D-ND | -3.91 | 120.86 | 124.45 |
| 21 | B | 1021 | CLA | CHD-C1D-ND | -3.91 | 120.86 | 124.45 |
| 25 | a | 5007 | LHG | O7-C7-C8 | 3.91 | 119.92 | 111.50 |
| 21 | B | 1204 | CLA | CHD-C1D-ND | -3.91 | 120.86 | 124.45 |
| 21 | B | 1214 | CLA | CHD-C1D-ND | -3.90 | 120.87 | 124.45 |
| 26 | b | 5007 | LMG | O7-C10-C11 | 3.90 | 119.91 | 111.50 |
| 21 | a | 1118 | CLA | O2A-C1-C2 | 3.90 | 118.89 | 108.64 |
| 21 | 7 | 1303 | CLA | CHD-C1D-ND | -3.90 | 120.87 | 124.45 |
| 21 | 2 | 1237 | CLA | O2D-CGD-CBD | 3.90 | 118.19 | 111.27 |
| 21 | 1 | 1113 | CLA | O2D-CGD-CBD | 3.89 | 118.19 | 111.27 |
| 26 | 0 | 5001 | LMG | O7-C10-C11 | 3.89 | 119.89 | 111.50 |
| 21 | B | 1230 | CLA | CHD-C1D-ND | -3.89 | 120.88 | 124.45 |
| 21 | A | 1113 | CLA | O2D-CGD-CBD | 3.89 | 118.19 | 111.27 |
| 21 | A | 1134 | CLA | CHD-C1D-ND | -3.89 | 120.88 | 124.45 |
| 31 | F | 5001 | SQD | O7-S-C6 | -3.89 | 102.31 | 106.94 |
| 21 | A | 1102 | CLA | CHD-C1D-ND | -3.89 | 120.88 | 124.45 |
| 21 | A | 1011 | CLA | O2A-C1-C2 | 3.89 | 118.86 | 108.64 |
| 34 | j | 4015 | ZEX | C31-C30-C29 | -3.89 | 121.76 | 127.31 |
| 21 | 2 | 1210 | CLA | O2D-CGD-CBD | 3.89 | 118.18 | 111.27 |
| 21 | b | 1217 | CLA | CHD-C1D-ND | -3.89 | 120.88 | 124.45 |
| 30 | M | 4021 | ECH | C20-C21-C22 | -3.89 | 121.76 | 127.31 |
| 21 | B | 1234 | CLA | C2D-C1D-ND | 3.88 | 112.97 | 110.10 |
| 21 | A | 1123 | CLA | O2D-CGD-CBD | 3.88 | 118.17 | 111.27 |
| 21 | 0 | 1502 | CLA | C2D-C1D-ND | 3.88 | 112.97 | 110.10 |
| 21 | a | 1117 | CLA | CHD-C1D-ND | -3.88 | 120.89 | 124.45 |
| 21 | a | 1112 | CLA | CHD-C1D-ND | -3.88 | 120.89 | 124.45 |
| 21 | 2 | 1223 | CLA | CHD-C1D-ND | -3.88 | 120.89 | 124.45 |
| 21 | A | 1106 | CLA | O2D-CGD-CBD | 3.88 | 118.16 | 111.27 |
| 21 | b | 1212 | CLA | CHD-C1D-ND | -3.88 | 120.89 | 124.45 |
| 21 | A | 1128 | CLA | O2D-CGD-CBD | 3.88 | 118.16 | 111.27 |
| 25 | A | 5001 | LHG | O7-C7-C8 | 3.87 | 119.85 | 111.50 |
| 21 | B | 1227 | CLA | C1D-ND-C4D | -3.87 | 103.58 | 106.33 |
| 21 | B | 1218 | CLA | CHD-C1D-ND | -3.87 | 120.90 | 124.45 |
| 21 | B | 1236 | CLA | CHD-C1D-ND | -3.87 | 120.90 | 124.45 |
| 24 | 6 | 4016 | BCR | C40-C30-C25 | -3.87 | 104.03 | 110.30 |
| 24 | 0 | 4022 | BCR | C19-C18-C17 | 3.87 | 124.88 | 118.94 |
| 21 | A | 1124 | CLA | O2A-C1-C2 | 3.86 | 118.79 | 108.64 |
| 21 | A | 1125 | CLA | O2D-CGD-CBD | 3.86 | 118.13 | 111.27 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | b | 1204 | CLA | O2A-C1-C2 | 3.86 | 118.78 | 108.64 |
| 21 | B | 1217 | CLA | CHD-C1D-ND | -3.86 | 120.91 | 124.45 |
| 21 | A | 1129 | CLA | O2D-CGD-CBD | 3.86 | 118.12 | 111.27 |
| 21 | A | 1111 | CLA | CHD-C1D-ND | -3.86 | 120.91 | 124.45 |
| 21 | 1 | 1109 | CLA | CHD-C1D-ND | -3.86 | 120.91 | 124.45 |
| 21 | a | 1110 | CLA | CHD-C1D-ND | -3.86 | 120.91 | 124.45 |
| 21 | B | 1227 | CLA | C2D-C1D-ND | 3.86 | 112.94 | 110.10 |
| 21 | 1 | 1801 | CLA | C2D-C1D-ND | 3.85 | 112.94 | 110.10 |
| 21 | a | 1118 | CLA | CHD-C1D-ND | -3.85 | 120.92 | 124.45 |
| 21 | b | 1201 | CLA | O2A-C1-C2 | 3.85 | 118.75 | 108.64 |
| 21 | B | 1230 | CLA | O2A-C1-C2 | 3.84 | 118.73 | 108.64 |
| 21 | B | 1239 | CLA | O2D-CGD-CBD | 3.84 | 118.09 | 111.27 |
| 21 | a | 1137 | CLA | O2D-CGD-CBD | 3.84 | 118.08 | 111.27 |
| 21 | L | 1503 | CLA | O2D-CGD-CBD | 3.84 | 118.08 | 111.27 |
| 21 | A | 1119 | CLA | CHD-C1D-ND | -3.83 | 120.93 | 124.45 |
| 21 | A | 1137 | CLA | CHD-C1D-ND | -3.83 | 120.93 | 124.45 |
| 26 | 2 | 5005 | LMG | O7-C10-C11 | 3.83 | 119.76 | 111.50 |
| 21 | a | 1011 | CLA | CHD-C1D-ND | -3.82 | 120.94 | 124.45 |
| 21 | b | 1210 | CLA | CHD-C1D-ND | -3.82 | 120.94 | 124.45 |
| 21 | b | 1209 | CLA | CHD-C1D-ND | -3.82 | 120.94 | 124.45 |
| 21 | B | 1235 | CLA | CHD-C1D-ND | -3.82 | 120.95 | 124.45 |
| 21 | 1 | 1106 | CLA | O2D-CGD-CBD | 3.82 | 118.05 | 111.27 |
| 21 | B | 1226 | CLA | O2D-CGD-CBD | 3.82 | 118.05 | 111.27 |
| 21 | B | 1209 | CLA | CHD-C1D-ND | -3.82 | 120.95 | 124.45 |
| 21 | j | 1303 | CLA | O2D-CGD-CBD | 3.81 | 118.05 | 111.27 |
| 21 | 1 | 1105 | CLA | O2D-CGD-CBD | 3.81 | 118.04 | 111.27 |
| 21 | a | 1111 | CLA | CHD-C1D-ND | -3.81 | 120.95 | 124.45 |
| 21 | b | 1201 | CLA | CHD-C1D-ND | -3.81 | 120.95 | 124.45 |
| 21 | a | 1108 | CLA | CHD-C1D-ND | -3.81 | 120.95 | 124.45 |
| 21 | 1 | 1134 | CLA | O2D-CGD-CBD | 3.81 | 118.04 | 111.27 |
| 21 | B | 1235 | CLA | C2D-C1D-ND | 3.81 | 112.91 | 110.10 |
| 25 | 1 | 5003 | LHG | O7-C7-C8 | 3.80 | 119.70 | 111.50 |
| 26 | A | 5004 | LMG | O7-C10-C11 | 3.80 | 119.70 | 111.50 |
| 30 | m | 4021 | ECH | C33-C5-C6 | -3.80 | 120.26 | 124.53 |
| 21 | a | 1104 | CLA | CHD-C1D-ND | -3.80 | 120.96 | 124.45 |
| 21 | a | 1140 | CLA | CHD-C1D-ND | -3.80 | 120.96 | 124.45 |
| 21 | 1 | 1117 | CLA | CHD-C1D-ND | -3.80 | 120.96 | 124.45 |
| 21 | 2 | 1230 | CLA | CHD-C1D-ND | -3.80 | 120.96 | 124.45 |
| 21 | B | 1228 | CLA | CMB-C2B-C1B | -3.80 | 122.62 | 128.46 |
| 21 | b | 1213 | CLA | CHD-C1D-ND | -3.80 | 120.96 | 124.45 |
| 21 | A | 1126 | CLA | C2D-C1D-ND | 3.80 | 112.90 | 110.10 |
| 21 | 1 | 1132 | CLA | C2D-C1D-ND | 3.80 | 112.90 | 110.10 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | a | 1126 | CLA | CHD-C1D-ND | -3.80 | 120.97 | 124.45 |
| 21 | a | 1121 | CLA | O2D-CGD-CBD | 3.79 | 118.01 | 111.27 |
| 21 | 1 | 1135 | CLA | O2D-CGD-CBD | 3.79 | 118.01 | 111.27 |
| 25 | 0 | 5002 | LHG | O7-C7-C8 | 3.79 | 119.67 | 111.50 |
| 21 | 2 | 1238 | CLA | O2D-CGD-CBD | 3.79 | 118.00 | 111.27 |
| 21 | a | 1113 | CLA | CHD-C1D-ND | -3.79 | 120.97 | 124.45 |
| 21 | a | 1129 | CLA | O2D-CGD-CBD | 3.79 | 118.00 | 111.27 |
| 21 | B | 1225 | CLA | CHD-C1D-ND | -3.79 | 120.97 | 124.45 |
| 21 | l | 1502 | CLA | O2D-CGD-CBD | 3.79 | 118.00 | 111.27 |
| 21 | 1 | 1133 | CLA | CHD-C1D-ND | -3.78 | 120.98 | 124.45 |
| 21 | a | 1133 | CLA | CHD-C1D-ND | -3.78 | 120.98 | 124.45 |
| 21 | a | 1105 | CLA | O2D-CGD-CBD | 3.78 | 117.99 | 111.27 |
| 21 | a | 1120 | CLA | O2D-CGD-CBD | 3.78 | 117.99 | 111.27 |
| 21 | A | 1110 | CLA | O2D-CGD-CBD | 3.78 | 117.98 | 111.27 |
| 21 | A | 1132 | CLA | CHD-C1D-ND | -3.78 | 120.98 | 124.45 |
| 21 | 2 | 1236 | CLA | C2D-C1D-ND | 3.78 | 112.89 | 110.10 |
| 21 | A | 1140 | CLA | CHD-C1D-ND | -3.78 | 120.98 | 124.45 |
| 21 | b | 1214 | CLA | CHD-C1D-ND | -3.77 | 120.98 | 124.45 |
| 21 | B | 1228 | CLA | C2D-C1D-ND | 3.77 | 112.89 | 110.10 |
| 21 | b | 1203 | CLA | CHD-C1D-ND | -3.77 | 120.99 | 124.45 |
| 21 | a | 1123 | CLA | O2D-CGD-CBD | 3.77 | 117.97 | 111.27 |
| 21 | 1 | 1110 | CLA | CHD-C1D-ND | -3.77 | 120.99 | 124.45 |
| 24 | 9 | 4021 | BCR | C30-C25-C26 | -3.77 | 117.31 | 122.61 |
| 30 | 2 | 4006 | ECH | C19-C18-C17 | 3.77 | 124.72 | 118.94 |
| 21 | 2 | 1237 | CLA | CHD-C1D-ND | -3.76 | 121.00 | 124.45 |
| 21 | 2 | 1228 | CLA | CHD-C1D-ND | -3.76 | 121.00 | 124.45 |
| 24 | a | 4003 | BCR | C30-C25-C26 | -3.76 | 117.31 | 122.61 |
| 21 | 2 | 1240 | CLA | C2D-C1D-ND | 3.76 | 112.88 | 110.10 |
| 21 | a | 1115 | CLA | CHD-C1D-ND | -3.76 | 121.00 | 124.45 |
| 21 | 2 | 1210 | CLA | CHD-C1D-ND | -3.76 | 121.00 | 124.45 |
| 21 | 1 | 1130 | CLA | O2D-CGD-CBD | 3.76 | 117.95 | 111.27 |
| 21 | A | 1132 | CLA | C2D-C1D-ND | 3.76 | 112.87 | 110.10 |
| 21 | b | 1218 | CLA | C2D-C1D-ND | 3.76 | 112.87 | 110.10 |
| 21 | A | 1116 | CLA | O2D-CGD-CBD | 3.76 | 117.95 | 111.27 |
| 21 | a | 1127 | CLA | CHD-C1D-ND | -3.76 | 121.00 | 124.45 |
| 21 | 2 | 1021 | CLA | O2D-CGD-CBD | 3.76 | 117.94 | 111.27 |
| 21 | B | 1207 | CLA | CHD-C1D-ND | -3.75 | 121.00 | 124.45 |
| 21 | b | 1238 | CLA | CMB-C2B-C1B | -3.75 | 122.69 | 128.46 |
| 24 | A | 4008 | BCR | C39-C30-C25 | -3.75 | 104.22 | 110.30 |
| 21 | 1 | 1110 | CLA | O2D-CGD-CBD | 3.75 | 117.93 | 111.27 |
| 21 | l | 1501 | CLA | O2D-CGD-CBD | 3.75 | 117.93 | 111.27 |
| 21 | a | 1106 | CLA | CHD-C1D-ND | -3.75 | 121.01 | 124.45 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | a | 1012 | CLA | O2D-CGD-CBD | 3.74 | 117.92 | 111.27 |
| 28 | h | 4020 | 45D | C30-C32-C34 | 3.74 | 134.90 | 123.22 |
| 21 | a | 1110 | CLA | O2D-CGD-CBD | 3.74 | 117.92 | 111.27 |
| 21 | 1 | 1140 | CLA | CHD-C1D-ND | -3.74 | 121.02 | 124.45 |
| 21 | b | 1240 | CLA | C2D-C1D-ND | 3.74 | 112.86 | 110.10 |
| 36 | I | 4020 | EQ3 | C15-C14-C13 | -3.74 | 121.98 | 127.31 |
| 21 | 1 | 1119 | CLA | O2D-CGD-CBD | 3.73 | 117.90 | 111.27 |
| 21 | b | 1220 | CLA | CHD-C1D-ND | -3.73 | 121.02 | 124.45 |
| 30 | b | 4011 | ECH | C33-C5-C6 | -3.73 | 120.34 | 124.53 |
| 21 | 1 | 1106 | CLA | CMB-C2B-C1B | -3.73 | 122.73 | 128.46 |
| 30 | m | 4021 | ECH | C15-C14-C13 | -3.73 | 121.99 | 127.31 |
| 21 | 2 | 1216 | CLA | C1D-ND-C4D | -3.73 | 103.69 | 106.33 |
| 21 | 2 | 1204 | CLA | O2D-CGD-CBD | 3.73 | 117.89 | 111.27 |
| 21 | B | 1212 | CLA | CHD-C1D-ND | -3.73 | 121.03 | 124.45 |
| 21 | A | 1111 | CLA | O2D-CGD-CBD | 3.73 | 117.89 | 111.27 |
| 21 | a | 1119 | CLA | CHD-C1D-ND | -3.72 | 121.03 | 124.45 |
| 26 | B | 5002 | LMG | O7-C10-C11 | 3.72 | 119.52 | 111.50 |
| 21 | B | 1208 | CLA | O2D-CGD-CBD | 3.72 | 117.88 | 111.27 |
| 21 | b | 1226 | CLA | O2A-C1-C2 | 3.72 | 118.41 | 108.64 |
| 21 | 2 | 1222 | CLA | CHD-C1D-ND | -3.72 | 121.04 | 124.45 |
| 21 | 1 | 1136 | CLA | CHD-C1D-ND | -3.72 | 121.04 | 124.45 |
| 24 | b | 4004 | BCR | C39-C30-C25 | -3.72 | 104.27 | 110.30 |
| 21 | a | 1013 | CLA | C2D-C1D-ND | 3.71 | 112.84 | 110.10 |
| 21 | 1 | 1012 | CLA | O2D-CGD-CBD | 3.71 | 117.86 | 111.27 |
| 21 | 1 | 1138 | CLA | CHD-C1D-ND | -3.71 | 121.04 | 124.45 |
| 21 | 6 | 1301 | CLA | O2D-CGD-CBD | 3.71 | 117.86 | 111.27 |
| 21 | A | 1801 | CLA | C2D-C1D-ND | 3.71 | 112.84 | 110.10 |
| 21 | A | 1117 | CLA | CHD-C1D-ND | -3.71 | 121.05 | 124.45 |
| 21 | B | 1222 | CLA | O2D-CGD-CBD | 3.70 | 117.85 | 111.27 |
| 21 | A | 1109 | CLA | CHD-C1D-ND | -3.70 | 121.05 | 124.45 |
| 21 | b | 1229 | CLA | O2D-CGD-CBD | 3.70 | 117.85 | 111.27 |
| 21 | B | 1212 | CLA | C2D-C1D-ND | 3.70 | 112.83 | 110.10 |
| 21 | 1 | 1012 | CLA | C2D-C1D-ND | 3.70 | 112.83 | 110.10 |
| 21 | B | 1226 | CLA | CHD-C1D-ND | -3.70 | 121.05 | 124.45 |
| 21 | B | 1228 | CLA | O2D-CGD-CBD | 3.70 | 117.84 | 111.27 |
| 28 | B | 4011 | 45D | C21-C15-C17 | 3.70 | 120.98 | 115.48 |
| 21 | B | 1227 | CLA | O2D-CGD-CBD | 3.70 | 117.84 | 111.27 |
| 21 | a | 1101 | CLA | O2D-CGD-CBD | 3.70 | 117.83 | 111.27 |
| 34 | j | 4015 | ZEX | C38-C24-C23 | 3.70 | 117.92 | 112.20 |
| 21 | b | 1211 | CLA | O2D-CGD-CBD | 3.69 | 117.83 | 111.27 |
| 36 | I | 4020 | EQ3 | C7-C8-C9 | -3.69 | 120.65 | 126.23 |
| 25 | F | 5002 | LHG | O7-C7-C8 | 3.69 | 119.46 | 111.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | L | 1502 | CLA | C2D-C1D-ND | 3.69 | 112.83 | 110.10 |
| 21 | a | 1104 | CLA | C2D-C1D-ND | 3.69 | 112.83 | 110.10 |
| 21 | l | 1503 | CLA | C2D-C1D-ND | 3.69 | 112.83 | 110.10 |
| 21 | B | 1224 | CLA | O2D-CGD-CBD | 3.69 | 117.83 | 111.27 |
| 21 | A | 1113 | CLA | CHD-C1D-ND | -3.69 | 121.06 | 124.45 |
| 21 | 1 | 1122 | CLA | CHD-C1D-ND | -3.69 | 121.06 | 124.45 |
| 21 | 2 | 1234 | CLA | C2D-C1D-ND | 3.69 | 112.82 | 110.10 |
| 28 | h | 4020 | 45D | C40-C36-C38 | -3.69 | 117.75 | 122.92 |
| 21 | A | 1140 | CLA | O2D-CGD-CBD | 3.69 | 117.83 | 111.27 |
| 21 | 1 | 1115 | CLA | CHD-C1D-ND | -3.69 | 121.06 | 124.45 |
| 21 | 1 | 1120 | CLA | O2D-CGD-CBD | 3.69 | 117.82 | 111.27 |
| 24 | 0 | 4022 | BCR | C36-C18-C19 | -3.69 | 112.27 | 118.08 |
| 21 | 2 | 1208 | CLA | O2D-CGD-CBD | 3.68 | 117.82 | 111.27 |
| 21 | B | 1224 | CLA | C2D-C1D-ND | 3.68 | 112.82 | 110.10 |
| 24 | 7 | 4013 | BCR | C38-C26-C25 | -3.68 | 120.39 | 124.53 |
| 21 | j | 1302 | CLA | C2D-C1D-ND | 3.68 | 112.82 | 110.10 |
| 21 | 2 | 1218 | CLA | CHD-C1D-ND | -3.68 | 121.07 | 124.45 |
| 21 | 2 | 1227 | CLA | CHD-C1D-ND | -3.68 | 121.07 | 124.45 |
| 21 | k | 1402 | CLA | CHD-C1D-ND | -3.68 | 121.07 | 124.45 |
| 21 | A | 1130 | CLA | CHD-C1D-ND | -3.68 | 121.08 | 124.45 |
| 21 | A | 1133 | CLA | O2D-CGD-CBD | 3.68 | 117.80 | 111.27 |
| 21 | l | 1503 | CLA | O2D-CGD-CBD | 3.67 | 117.79 | 111.27 |
| 21 | 2 | 1213 | CLA | CHD-C1D-ND | -3.67 | 121.08 | 124.45 |
| 21 | 1 | 1125 | CLA | CHD-C1D-ND | -3.67 | 121.08 | 124.45 |
| 28 | h | 4020 | 45D | C23-C19-C07 | -3.67 | 116.90 | 127.20 |
| 30 | i | 4020 | ECH | C12-C13-C14 | 3.67 | 124.57 | 118.94 |
| 21 | B | 1224 | CLA | CHD-C1D-ND | -3.67 | 121.08 | 124.45 |
| 21 | 1 | 1112 | CLA | CHD-C1D-ND | -3.67 | 121.08 | 124.45 |
| 21 | b | 1206 | CLA | CMB-C2B-C1B | -3.67 | 122.83 | 128.46 |
| 21 | 1 | 1103 | CLA | O2D-CGD-CBD | 3.67 | 117.78 | 111.27 |
| 21 | B | 1234 | CLA | C1D-ND-C4D | -3.67 | 103.73 | 106.33 |
| 21 | B | 1225 | CLA | C2D-C1D-ND | 3.67 | 112.81 | 110.10 |
| 21 | a | 1138 | CLA | O2D-CGD-CBD | 3.66 | 117.78 | 111.27 |
| 21 | j | 1303 | CLA | CHD-C1D-ND | -3.66 | 121.09 | 124.45 |
| 21 | l | 1503 | CLA | C1D-ND-C4D | -3.66 | 103.73 | 106.33 |
| 21 | A | 1104 | CLA | CHD-C1D-ND | -3.66 | 121.09 | 124.45 |
| 21 | 2 | 1240 | CLA | CHD-C1D-ND | -3.66 | 121.09 | 124.45 |
| 21 | 1 | 1134 | CLA | CHD-C1D-ND | -3.66 | 121.09 | 124.45 |
| 21 | 8 | 1401 | CLA | O2D-CGD-CBD | 3.66 | 117.76 | 111.27 |
| 21 | a | 1136 | CLA | C2D-C1D-ND | 3.65 | 112.80 | 110.10 |
| 21 | a | 1140 | CLA | O2D-CGD-CBD | 3.65 | 117.76 | 111.27 |
| 21 | b | 1229 | CLA | C1D-ND-C4D | -3.65 | 103.74 | 106.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | 1 | 1107 | CLA | CMB-C2B-C1B | -3.65 | 122.85 | 128.46 |
| 21 | J | 1302 | CLA | O2D-CGD-CBD | 3.65 | 117.75 | 111.27 |
| 21 | B | 1220 | CLA | CHD-C1D-ND | -3.65 | 121.10 | 124.45 |
| 21 | 2 | 1212 | CLA | O2D-CGD-CBD | 3.65 | 117.75 | 111.27 |
| 26 | 2 | 5002 | LMG | O7-C10-C11 | 3.65 | 119.36 | 111.50 |
| 21 | A | 1106 | CLA | C2D-C1D-ND | 3.64 | 112.79 | 110.10 |
| 21 | 6 | 1301 | CLA | O2A-C1-C2 | 3.64 | 121.81 | 108.42 |
| 21 | b | 1205 | CLA | C1D-ND-C4D | -3.64 | 103.75 | 106.33 |
| 21 | b | 1223 | CLA | CHD-C1D-ND | -3.64 | 121.11 | 124.45 |
| 36 | I | 4020 | EQ3 | C23-C24-C25 | -3.64 | 116.97 | 127.20 |
| 21 | b | 1237 | CLA | O2D-CGD-CBD | 3.64 | 117.74 | 111.27 |
| 21 | B | 1223 | CLA | CHD-C1D-ND | -3.64 | 121.11 | 124.45 |
| 21 | B | 1239 | CLA | C2D-C1D-ND | 3.64 | 112.79 | 110.10 |
| 21 | A | 1120 | CLA | O2D-CGD-CBD | 3.64 | 117.74 | 111.27 |
| 21 | 0 | 1502 | CLA | CMB-C2B-C1B | -3.64 | 122.87 | 128.46 |
| 21 | b | 1202 | CLA | O2D-CGD-CBD | 3.64 | 117.73 | 111.27 |
| 21 | 1 | 1101 | CLA | O2D-CGD-CBD | 3.64 | 117.73 | 111.27 |
| 21 | A | 1105 | CLA | O2D-CGD-CBD | 3.63 | 117.72 | 111.27 |
| 21 | a | 1119 | CLA | O2D-CGD-CBD | 3.63 | 117.72 | 111.27 |
| 21 | l | 1502 | CLA | C1D-ND-C4D | -3.63 | 103.75 | 106.33 |
| 21 | A | 1801 | CLA | CHD-C1D-ND | -3.63 | 121.12 | 124.45 |
| 21 | B | 1204 | CLA | O2D-CGD-CBD | 3.63 | 117.72 | 111.27 |
| 21 | B | 1234 | CLA | O2D-CGD-CBD | 3.63 | 117.72 | 111.27 |
| 21 | a | 1115 | CLA | C2D-C1D-ND | 3.63 | 112.78 | 110.10 |
| 21 | 1 | 1126 | CLA | C2D-C1D-ND | 3.63 | 112.78 | 110.10 |
| 21 | 1 | 1136 | CLA | C2D-C1D-ND | 3.63 | 112.78 | 110.10 |
| 21 | 8 | 1402 | CLA | C2D-C1D-ND | 3.63 | 112.78 | 110.10 |
| 21 | B | 1021 | CLA | O2D-CGD-CBD | 3.63 | 117.71 | 111.27 |
| 31 | b | 5006 | SQD | O7-S-C6 | -3.63 | 102.63 | 106.94 |
| 21 | A | 1109 | CLA | O2D-CGD-CBD | 3.63 | 117.71 | 111.27 |
| 21 | 2 | 1214 | CLA | CHD-C1D-ND | -3.63 | 121.12 | 124.45 |
| 21 | B | 1230 | CLA | C2D-C1D-ND | 3.62 | 112.77 | 110.10 |
| 21 | B | 1206 | CLA | O2D-CGD-CBD | 3.62 | 117.70 | 111.27 |
| 21 | 2 | 1216 | CLA | O2D-CGD-CBD | 3.62 | 117.70 | 111.27 |
| 21 | a | 1124 | CLA | CHD-C1D-ND | -3.62 | 121.13 | 124.45 |
| 21 | A | 1101 | CLA | O2D-CGD-CBD | 3.62 | 117.69 | 111.27 |
| 21 | 2 | 1239 | CLA | C2D-C1D-ND | 3.61 | 112.77 | 110.10 |
| 21 | b | 1022 | CLA | CHD-C1D-ND | -3.61 | 121.13 | 124.45 |
| 21 | b | 1239 | CLA | O2D-CGD-CBD | 3.61 | 117.69 | 111.27 |
| 21 | 2 | 1218 | CLA | C2D-C1D-ND | 3.61 | 112.77 | 110.10 |
| 21 | A | 1126 | CLA | O2D-CGD-CBD | 3.61 | 117.68 | 111.27 |
| 21 | a | 1108 | CLA | O2D-CGD-CBD | 3.61 | 117.68 | 111.27 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | l | 1502 | CLA | CHD-C1D-ND | -3.61 | 121.14 | 124.45 |
| 21 | A | 1129 | CLA | C2D-C1D-ND | 3.61 | 112.76 | 110.10 |
| 21 | A | 1122 | CLA | CHD-C1D-ND | -3.61 | 121.14 | 124.45 |
| 21 | A | 1132 | CLA | O2D-CGD-CBD | 3.61 | 117.68 | 111.27 |
| 21 | A | 1112 | CLA | CHD-C1D-ND | -3.61 | 121.14 | 124.45 |
| 31 | L | 5001 | SQD | O7-S-C6 | -3.61 | 102.65 | 106.94 |
| 21 | 8 | 1401 | CLA | CHD-C1D-ND | -3.60 | 121.14 | 124.45 |
| 21 | a | 1116 | CLA | O2D-CGD-CBD | 3.60 | 117.67 | 111.27 |
| 21 | A | 1801 | CLA | CMB-C2B-C1B | -3.60 | 122.92 | 128.46 |
| 21 | a | 1139 | CLA | CHD-C1D-ND | -3.60 | 121.14 | 124.45 |
| 21 | 2 | 1238 | CLA | CHD-C1D-ND | -3.60 | 121.14 | 124.45 |
| 21 | A | 1115 | CLA | C2D-C1D-ND | 3.60 | 112.76 | 110.10 |
| 21 | b | 1226 | CLA | CMB-C2B-C1B | -3.60 | 122.93 | 128.46 |
| 21 | b | 1219 | CLA | O2D-CGD-CBD | 3.60 | 117.67 | 111.27 |
| 21 | 1 | 1105 | CLA | CHD-C1D-ND | -3.60 | 121.15 | 124.45 |
| 21 | 2 | 1212 | CLA | C2D-C1D-ND | 3.60 | 112.75 | 110.10 |
| 21 | A | 1101 | CLA | CAA-C2A-C3A | -3.60 | 102.93 | 112.78 |
| 30 | B | 4006 | ECH | C20-C19-C18 | -3.60 | 116.32 | 126.42 |
| 21 | a | 1109 | CLA | CHD-C1D-ND | -3.60 | 121.15 | 124.45 |
| 21 | A | 1136 | CLA | C2D-C1D-ND | 3.59 | 112.75 | 110.10 |
| 21 | a | 1114 | CLA | O2D-CGD-CBD | 3.59 | 117.66 | 111.27 |
| 36 | I | 4020 | EQ3 | C8-C7-C6 | -3.59 | 117.11 | 127.20 |
| 21 | a | 1126 | CLA | CMB-C2B-C1B | -3.59 | 122.94 | 128.46 |
| 21 | A | 1012 | CLA | C2D-C1D-ND | 3.59 | 112.75 | 110.10 |
| 21 | a | 1136 | CLA | CHD-C1D-ND | -3.59 | 121.16 | 124.45 |
| 21 | b | 1228 | CLA | CHD-C1D-ND | -3.59 | 121.16 | 124.45 |
| 21 | 2 | 1236 | CLA | CHD-C1D-ND | -3.59 | 121.16 | 124.45 |
| 21 | 1 | 1011 | CLA | CHD-C1D-ND | -3.59 | 121.16 | 124.45 |
| 24 | 2 | 4018 | BCR | C38-C26-C25 | -3.59 | 120.50 | 124.53 |
| 34 | F | 4016 | ZEX | C38-C24-C23 | 3.58 | 117.75 | 112.20 |
| 21 | a | 1126 | CLA | C2D-C1D-ND | 3.58 | 112.74 | 110.10 |
| 21 | 2 | 1210 | CLA | C2D-C1D-ND | 3.58 | 112.74 | 110.10 |
| 21 | 1 | 1139 | CLA | O2D-CGD-CBD | 3.58 | 117.63 | 111.27 |
| 21 | b | 1212 | CLA | C2D-C1D-ND | 3.58 | 112.74 | 110.10 |
| 21 | 1 | 1140 | CLA | O2D-CGD-CBD | 3.58 | 117.63 | 111.27 |
| 21 | 2 | 1224 | CLA | CHD-C1D-ND | -3.58 | 121.17 | 124.45 |
| 24 | B | 4005 | BCR | C38-C26-C25 | -3.58 | 120.51 | 124.53 |
| 21 | A | 1120 | CLA | C2D-C1D-ND | 3.58 | 112.74 | 110.10 |
| 21 | 7 | 1302 | CLA | C2D-C1D-ND | 3.57 | 112.74 | 110.10 |
| 21 | J | 1303 | CLA | CHD-C1D-ND | -3.57 | 121.17 | 124.45 |
| 21 | b | 1209 | CLA | O2D-CGD-CBD | 3.57 | 117.61 | 111.27 |
| 21 | 1 | 1126 | CLA | CHD-C1D-ND | -3.57 | 121.18 | 124.45 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | B | 1238 | CLA | O2A-C1-C2 | 3.57 | 118.01 | 108.64 |
| 21 | 8 | 1402 | CLA | CHD-C1D-ND | -3.56 | 121.18 | 124.45 |
| 21 | 1 | 1134 | CLA | C2D-C1D-ND | 3.56 | 112.73 | 110.10 |
| 30 | i | 4020 | ECH | C33-C5-C6 | -3.56 | 120.53 | 124.53 |
| 21 | 2 | 1229 | CLA | C2D-C1D-ND | 3.56 | 112.73 | 110.10 |
| 21 | A | 1012 | CLA | O2D-CGD-CBD | 3.56 | 117.60 | 111.27 |
| 21 | A | 1140 | CLA | C2D-C1D-ND | 3.56 | 112.73 | 110.10 |
| 21 | 2 | 1021 | CLA | CHD-C1D-ND | -3.56 | 121.18 | 124.45 |
| 21 | a | 1131 | CLA | O2D-CGD-CBD | 3.56 | 117.59 | 111.27 |
| 21 | b | 1205 | CLA | C2D-C1D-ND | 3.56 | 112.73 | 110.10 |
| 21 | b | 1231 | CLA | O2D-CGD-CBD | 3.56 | 117.59 | 111.27 |
| 24 | a | 4019 | BCR | C15-C14-C13 | -3.56 | 122.23 | 127.31 |
| 21 | b | 1227 | CLA | CHD-C1D-ND | -3.56 | 121.19 | 124.45 |
| 24 | j | 4013 | BCR | C38-C26-C25 | -3.56 | 120.53 | 124.53 |
| 21 | B | 1205 | CLA | C2D-C1D-ND | 3.56 | 112.72 | 110.10 |
| 21 | B | 1219 | CLA | O2D-CGD-CBD | 3.56 | 117.59 | 111.27 |
| 21 | a | 1113 | CLA | O2D-CGD-CBD | 3.56 | 117.59 | 111.27 |
| 21 | 1 | 1113 | CLA | CMB-C2B-C1B | -3.55 | 123.00 | 128.46 |
| 21 | 2 | 1216 | CLA | C2D-C1D-ND | 3.55 | 112.72 | 110.10 |
| 21 | B | 1211 | CLA | CHD-C1D-ND | -3.55 | 121.19 | 124.45 |
| 21 | b | 1021 | CLA | CHD-C1D-ND | -3.55 | 121.19 | 124.45 |
| 21 | 2 | 1211 | CLA | CHD-C1D-ND | -3.55 | 121.19 | 124.45 |
| 21 | B | 1211 | CLA | O2D-CGD-CBD | 3.54 | 117.56 | 111.27 |
| 21 | 1 | 1116 | CLA | O2D-CGD-CBD | 3.54 | 117.56 | 111.27 |
| 35 | 0 | 6001 | LMT | C3'-C4'-C5' | -3.54 | 102.80 | 110.93 |
| 21 | a | 1133 | CLA | O2D-CGD-CBD | 3.54 | 117.56 | 111.27 |
| 21 | B | 1217 | CLA | O2D-CGD-CBD | 3.54 | 117.56 | 111.27 |
| 30 | b | 4011 | ECH | C10-C11-C12 | -3.54 | 112.17 | 123.22 |
| 21 | B | 1239 | CLA | CHD-C1D-ND | -3.54 | 121.20 | 124.45 |
| 21 | 1 | 1107 | CLA | CHD-C1D-ND | -3.54 | 121.20 | 124.45 |
| 21 | A | 1125 | CLA | CHD-C1D-ND | -3.54 | 121.20 | 124.45 |
| 21 | b | 1214 | CLA | O2D-CGD-CBD | 3.54 | 117.56 | 111.27 |
| 21 | 1 | 1112 | CLA | O2D-CGD-CBD | 3.54 | 117.56 | 111.27 |
| 24 | A | 4002 | BCR | C15-C14-C13 | 3.54 | 132.36 | 127.31 |
| 21 | J | 1302 | CLA | C2D-C1D-ND | 3.54 | 112.71 | 110.10 |
| 21 | 0 | 1501 | CLA | CHD-C1D-ND | -3.54 | 121.20 | 124.45 |
| 21 | A | 1108 | CLA | C2D-C1D-ND | 3.54 | 112.71 | 110.10 |
| 21 | k | 1402 | CLA | C2D-C1D-ND | 3.54 | 112.71 | 110.10 |
| 21 | 2 | 1220 | CLA | CHD-C1D-ND | -3.54 | 121.20 | 124.45 |
| 31 | f | 5001 | SQD | O7-S-C6 | -3.53 | 102.74 | 106.94 |
| 21 | a | 1127 | CLA | O2D-CGD-CBD | 3.53 | 117.55 | 111.27 |
| 21 | b | 1217 | CLA | O2D-CGD-CBD | 3.53 | 117.55 | 111.27 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | A | 1130 | CLA | O2D-CGD-CBD | 3.53 | 117.54 | 111.27 |
| 21 | B | 1229 | CLA | O2D-CGD-CBD | 3.53 | 117.54 | 111.27 |
| 21 | j | 1302 | CLA | CMA-C3A-C4A | 3.53 | 121.26 | 111.77 |
| 21 | a | 1101 | CLA | CAA-C2A-C3A | -3.53 | 103.12 | 112.78 |
| 21 | B | 1225 | CLA | C1D-ND-C4D | -3.53 | 103.83 | 106.33 |
| 21 | a | 1105 | CLA | CHD-C1D-ND | -3.53 | 121.21 | 124.45 |
| 21 | b | 1207 | CLA | CHD-C1D-ND | -3.53 | 121.21 | 124.45 |
| 21 | 2 | 1226 | CLA | CHD-C1D-ND | -3.53 | 121.21 | 124.45 |
| 21 | b | 1238 | CLA | CHD-C1D-ND | -3.52 | 121.22 | 124.45 |
| 21 | a | 1134 | CLA | O2D-CGD-CBD | 3.52 | 117.53 | 111.27 |
| 21 | b | 1222 | CLA | O2D-CGD-CBD | 3.52 | 117.53 | 111.27 |
| 21 | 2 | 1214 | CLA | O2D-CGD-CBD | 3.52 | 117.52 | 111.27 |
| 21 | 1 | 1801 | CLA | O2D-CGD-CBD | 3.52 | 117.52 | 111.27 |
| 24 | A | 4008 | BCR | C15-C14-C13 | 3.52 | 132.33 | 127.31 |
| 21 | A | 1013 | CLA | O2D-CGD-CBD | 3.52 | 117.52 | 111.27 |
| 21 | a | 1117 | CLA | CMB-C2B-C1B | -3.52 | 123.06 | 128.46 |
| 21 | a | 1120 | CLA | CHD-C1D-ND | -3.51 | 121.22 | 124.45 |
| 21 | L | 1501 | CLA | C2D-C1D-ND | 3.51 | 112.69 | 110.10 |
| 21 | L | 1502 | CLA | O2D-CGD-CBD | 3.51 | 117.51 | 111.27 |
| 21 | B | 1210 | CLA | CHD-C1D-ND | -3.51 | 121.23 | 124.45 |
| 21 | 6 | 1301 | CLA | CHD-C1D-ND | -3.51 | 121.23 | 124.45 |
| 24 | 2 | 4014 | BCR | C15-C14-C13 | 3.51 | 132.32 | 127.31 |
| 24 | J | 4013 | BCR | C38-C26-C25 | -3.51 | 120.58 | 124.53 |
| 21 | B | 1022 | CLA | C2D-C1D-ND | 3.51 | 112.69 | 110.10 |
| 21 | b | 1220 | CLA | C2D-C1D-ND | 3.51 | 112.69 | 110.10 |
| 21 | 0 | 1501 | CLA | O2D-CGD-CBD | 3.51 | 117.51 | 111.27 |
| 21 | B | 1209 | CLA | C2D-C1D-ND | 3.51 | 112.69 | 110.10 |
| 21 | B | 1212 | CLA | O2D-CGD-CBD | 3.51 | 117.50 | 111.27 |
| 21 | B | 1222 | CLA | CHD-C1D-ND | -3.51 | 121.23 | 124.45 |
| 21 | 2 | 1224 | CLA | C2D-C1D-ND | 3.51 | 112.69 | 110.10 |
| 21 | b | 1208 | CLA | O2D-CGD-CBD | 3.51 | 117.50 | 111.27 |
| 25 | L | 5005 | LHG | O7-C7-C8 | 3.51 | 119.06 | 111.50 |
| 21 | A | 1104 | CLA | C2D-C1D-ND | 3.51 | 112.69 | 110.10 |
| 21 | B | 1207 | CLA | C2D-C1D-ND | 3.51 | 112.69 | 110.10 |
| 21 | 2 | 1217 | CLA | CHD-C1D-ND | -3.50 | 121.23 | 124.45 |
| 21 | b | 1204 | CLA | O2D-CGD-CBD | 3.50 | 117.50 | 111.27 |
| 21 | 2 | 1230 | CLA | O2A-C1-C2 | 3.50 | 121.30 | 108.42 |
| 21 | L | 1502 | CLA | CHD-C1D-ND | -3.50 | 121.23 | 124.45 |
| 21 | 1 | 1126 | CLA | CMB-C2B-C1B | -3.50 | 123.08 | 128.46 |
| 21 | a | 1102 | CLA | CHD-C1D-ND | -3.50 | 121.24 | 124.45 |
| 21 | 1 | 1108 | CLA | O2D-CGD-CBD | 3.50 | 117.49 | 111.27 |
| 21 | 1 | 1132 | CLA | CHD-C1D-ND | -3.50 | 121.24 | 124.45 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | B | 1203 | CLA | CHD-C1D-ND | -3.50 | 121.24 | 124.45 |
| 21 | A | 1126 | CLA | C1D-ND-C4D | -3.50 | 103.85 | 106.33 |
| 21 | B | 1231 | CLA | O2D-CGD-CBD | 3.50 | 117.48 | 111.27 |
| 21 | B | 1237 | CLA | CHD-C1D-ND | -3.50 | 121.24 | 124.45 |
| 21 | 1 | 1106 | CLA | CHD-C1D-ND | -3.50 | 121.24 | 124.45 |
| 21 | A | 1117 | CLA | O2D-CGD-CBD | 3.50 | 117.48 | 111.27 |
| 21 | 2 | 1219 | CLA | O2D-CGD-CBD | 3.50 | 117.48 | 111.27 |
| 30 | b | 4011 | ECH | C15-C16-C17 | -3.50 | 116.31 | 123.47 |
| 21 | A | 1119 | CLA | O2D-CGD-CBD | 3.50 | 117.48 | 111.27 |
| 21 | A | 1128 | CLA | CHD-C1D-ND | -3.49 | 121.24 | 124.45 |
| 21 | 2 | 1215 | CLA | O2D-CGD-CBD | 3.49 | 117.47 | 111.27 |
| 21 | A | 1105 | CLA | CHD-C1D-ND | -3.49 | 121.24 | 124.45 |
| 21 | A | 1013 | CLA | C2D-C1D-ND | 3.49 | 112.68 | 110.10 |
| 21 | A | 1113 | CLA | CMB-C2B-C1B | -3.49 | 123.10 | 128.46 |
| 21 | B | 1229 | CLA | C1D-ND-C4D | -3.49 | 103.86 | 106.33 |
| 34 | F | 4016 | ZEX | C7-C8-C9 | -3.49 | 120.96 | 126.23 |
| 21 | b | 1240 | CLA | O2D-CGD-CBD | 3.49 | 117.47 | 111.27 |
| 21 | 0 | 1502 | CLA | O2D-CGD-CBD | 3.49 | 117.47 | 111.27 |
| 21 | a | 1128 | CLA | CHD-C1D-ND | -3.49 | 121.25 | 124.45 |
| 21 | 1 | 1115 | CLA | C2D-C1D-ND | 3.49 | 112.67 | 110.10 |
| 21 | 1 | 1125 | CLA | C2D-C1D-ND | 3.49 | 112.67 | 110.10 |
| 21 | a | 1135 | CLA | O2D-CGD-CBD | 3.49 | 117.46 | 111.27 |
| 21 | B | 1219 | CLA | C1D-ND-C4D | -3.48 | 103.86 | 106.33 |
| 21 | 1 | 1138 | CLA | O2D-CGD-CBD | 3.48 | 117.46 | 111.27 |
| 24 | 2 | 4011 | BCR | C15-C14-C13 | 3.48 | 132.28 | 127.31 |
| 21 | 2 | 1226 | CLA | O2D-CGD-CBD | 3.48 | 117.46 | 111.27 |
| 21 | a | 1801 | CLA | CHD-C1D-ND | -3.48 | 121.25 | 124.45 |
| 21 | 1 | 1114 | CLA | CHD-C1D-ND | -3.48 | 121.25 | 124.45 |
| 21 | 0 | 1502 | CLA | CHD-C1D-ND | -3.48 | 121.25 | 124.45 |
| 21 | 1 | 1105 | CLA | C2D-C1D-ND | 3.48 | 112.67 | 110.10 |
| 21 | 2 | 1201 | CLA | O2D-CGD-CBD | 3.48 | 117.45 | 111.27 |
| 21 | b | 1230 | CLA | CHD-C1D-ND | -3.48 | 121.26 | 124.45 |
| 21 | 1 | 1107 | CLA | O2D-CGD-CBD | 3.48 | 117.45 | 111.27 |
| 21 | B | 1232 | CLA | C2D-C1D-ND | 3.48 | 112.67 | 110.10 |
| 21 | B | 1240 | CLA | CHD-C1D-ND | -3.48 | 121.26 | 124.45 |
| 30 | B | 4006 | ECH | C28-C27-C26 | -3.47 | 115.45 | 118.65 |
| 21 | 2 | 1203 | CLA | O2D-CGD-CBD | 3.47 | 117.44 | 111.27 |
| 21 | a | 1106 | CLA | C2D-C1D-ND | 3.47 | 112.66 | 110.10 |
| 21 | a | 1104 | CLA | O2D-CGD-CBD | 3.47 | 117.44 | 111.27 |
| 21 | a | 1125 | CLA | O2D-CGD-CBD | 3.47 | 117.44 | 111.27 |
| 26 | K | 5009 | LMG | C1-C2-C3 | 3.47 | 117.22 | 110.00 |
| 21 | B | 1206 | CLA | CHD-C1D-ND | -3.47 | 121.27 | 124.45 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | a | 1111 | CLA | O2D-CGD-CBD | 3.47 | 117.43 | 111.27 |
| 21 | A | 1012 | CLA | CHD-C1D-ND | -3.47 | 121.27 | 124.45 |
| 28 | h | 4020 | 45D | C34-C36-C38 | 3.47 | 124.26 | 118.94 |
| 21 | a | 1132 | CLA | CHD-C1D-ND | -3.47 | 121.27 | 124.45 |
| 21 | B | 1206 | CLA | CMB-C2B-C1B | -3.47 | 123.14 | 128.46 |
| 21 | l | 1501 | CLA | CHD-C1D-ND | -3.46 | 121.27 | 124.45 |
| 21 | A | 1133 | CLA | C2D-C1D-ND | 3.46 | 112.65 | 110.10 |
| 21 | a | 1133 | CLA | C2D-C1D-ND | 3.46 | 112.65 | 110.10 |
| 21 | b | 1218 | CLA | CHD-C1D-ND | -3.46 | 121.28 | 124.45 |
| 21 | a | 1118 | CLA | O2D-CGD-CBD | 3.46 | 117.41 | 111.27 |
| 21 | A | 1122 | CLA | CMB-C2B-C1B | -3.45 | 123.16 | 128.46 |
| 21 | a | 1109 | CLA | CMB-C2B-C1B | -3.45 | 123.16 | 128.46 |
| 21 | f | 1301 | CLA | O2D-CGD-CBD | 3.45 | 117.40 | 111.27 |
| 21 | 7 | 1302 | CLA | O2D-CGD-CBD | 3.45 | 117.40 | 111.27 |
| 21 | B | 1023 | CLA | C2D-C1D-ND | 3.45 | 112.65 | 110.10 |
| 21 | 2 | 1217 | CLA | O2D-CGD-CBD | 3.45 | 117.40 | 111.27 |
| 21 | a | 1115 | CLA | C1D-ND-C4D | -3.45 | 103.89 | 106.33 |
| 24 | 9 | 4021 | BCR | C35-C13-C14 | -3.45 | 118.09 | 122.92 |
| 21 | A | 1107 | CLA | O2D-CGD-CBD | 3.45 | 117.40 | 111.27 |
| 21 | b | 1208 | CLA | CHD-C1D-ND | -3.45 | 121.28 | 124.45 |
| 30 | b | 4011 | ECH | C35-C13-C12 | -3.45 | 112.64 | 118.08 |
| 21 | 1 | 1012 | CLA | CHD-C1D-ND | -3.45 | 121.29 | 124.45 |
| 21 | b | 1210 | CLA | O2D-CGD-CBD | 3.44 | 117.39 | 111.27 |
| 21 | 1 | 1124 | CLA | O2D-CGD-CBD | 3.44 | 117.39 | 111.27 |
| 21 | a | 1126 | CLA | C1D-ND-C4D | -3.44 | 103.89 | 106.33 |
| 21 | 2 | 1203 | CLA | C2D-C1D-ND | 3.44 | 112.64 | 110.10 |
| 21 | b | 1238 | CLA | C2D-C1D-ND | 3.44 | 112.64 | 110.10 |
| 21 | b | 1213 | CLA | O2D-CGD-CBD | 3.44 | 117.38 | 111.27 |
| 21 | 0 | 1502 | CLA | C1D-ND-C4D | -3.44 | 103.89 | 106.33 |
| 26 | a | 5004 | LMG | O1-C1-C2 | 3.44 | 113.67 | 108.30 |
| 21 | B | 1218 | CLA | C2D-C1D-ND | 3.44 | 112.64 | 110.10 |
| 34 | j | 4015 | ZEX | C39-C29-C30 | -3.44 | 118.11 | 122.92 |
| 24 | A | 4003 | BCR | C1-C6-C5 | -3.44 | 117.77 | 122.61 |
| 21 | A | 1125 | CLA | C2D-C1D-ND | 3.44 | 112.64 | 110.10 |
| 21 | 2 | 1022 | CLA | O2D-CGD-CBD | 3.44 | 117.38 | 111.27 |
| 24 | 2 | 4005 | BCR | C40-C30-C25 | -3.44 | 104.72 | 110.30 |
| 21 | a | 1115 | CLA | O2D-CGD-CBD | 3.44 | 117.37 | 111.27 |
| 21 | A | 1137 | CLA | O2D-CGD-CBD | 3.44 | 117.37 | 111.27 |
| 21 | b | 1206 | CLA | CHD-C1D-ND | -3.43 | 121.30 | 124.45 |
| 21 | b | 1221 | CLA | CHD-C1D-ND | -3.43 | 121.30 | 124.45 |
| 28 | B | 4011 | 45D | C23-C19-C07 | -3.43 | 117.56 | 127.20 |
| 21 | b | 1232 | CLA | C2D-C1D-ND | 3.43 | 112.63 | 110.10 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 28 | B | 4011 | 45D | C05-C03-C07 | 3.43 | 115.77 | 110.48 |
| 24 | 8 | 4001 | BCR | C40-C30-C25 | -3.43 | 104.73 | 110.30 |
| 21 | 0 | 1503 | CLA | O2D-CGD-CBD | 3.43 | 117.37 | 111.27 |
| 22 | b | 2002 | PQN | C14-C13-C15 | 3.43 | 121.04 | 115.27 |
| 21 | 1 | 1126 | CLA | O2D-CGD-CBD | 3.43 | 117.36 | 111.27 |
| 21 | 2 | 1220 | CLA | CMB-C2B-C1B | -3.43 | 123.19 | 128.46 |
| 21 | B | 1202 | CLA | O2D-CGD-CBD | 3.43 | 117.36 | 111.27 |
| 21 | b | 1203 | CLA | O2D-CGD-CBD | 3.43 | 117.36 | 111.27 |
| 21 | A | 1105 | CLA | C2D-C1D-ND | 3.43 | 112.63 | 110.10 |
| 21 | b | 1211 | CLA | C1D-ND-C4D | -3.42 | 103.90 | 106.33 |
| 21 | A | 1127 | CLA | CHD-C1D-ND | -3.42 | 121.31 | 124.45 |
| 21 | a | 1103 | CLA | O2D-CGD-CBD | 3.42 | 117.35 | 111.27 |
| 21 | B | 1235 | CLA | O2D-CGD-CBD | 3.42 | 117.35 | 111.27 |
| 21 | A | 1131 | CLA | O2D-CGD-CBD | 3.42 | 117.35 | 111.27 |
| 30 | 2 | 4006 | ECH | C28-C27-C26 | -3.42 | 115.50 | 118.65 |
| 21 | a | 1801 | CLA | C2D-C1D-ND | 3.42 | 112.62 | 110.10 |
| 21 | b | 1211 | CLA | C2D-C1D-ND | 3.42 | 112.62 | 110.10 |
| 21 | B | 1205 | CLA | C1D-ND-C4D | -3.42 | 103.91 | 106.33 |
| 21 | A | 1136 | CLA | CHD-C1D-ND | -3.42 | 121.31 | 124.45 |
| 21 | A | 1115 | CLA | O2D-CGD-CBD | 3.42 | 117.34 | 111.27 |
| 21 | a | 1138 | CLA | C2D-C1D-ND | 3.42 | 112.62 | 110.10 |
| 21 | 1 | 1119 | CLA | CMB-C2B-C1B | -3.42 | 123.21 | 128.46 |
| 21 | 2 | 1218 | CLA | O2D-CGD-CBD | 3.41 | 117.33 | 111.27 |
| 21 | b | 1223 | CLA | CMB-C2B-C1B | -3.41 | 123.22 | 128.46 |
| 21 | a | 1133 | CLA | C1D-ND-C4D | -3.41 | 103.91 | 106.33 |
| 21 | b | 1223 | CLA | C2D-C1D-ND | 3.41 | 112.62 | 110.10 |
| 21 | B | 1230 | CLA | C1D-ND-C4D | -3.41 | 103.91 | 106.33 |
| 21 | a | 1137 | CLA | CHD-C1D-ND | -3.41 | 121.32 | 124.45 |
| 21 | B | 1216 | CLA | O2D-CGD-CBD | 3.41 | 117.33 | 111.27 |
| 21 | b | 1237 | CLA | CHD-C1D-ND | -3.41 | 121.32 | 124.45 |
| 21 | a | 1126 | CLA | O2D-CGD-CBD | 3.40 | 117.32 | 111.27 |
| 21 | b | 1222 | CLA | C1D-ND-C4D | -3.40 | 103.92 | 106.33 |
| 22 | A | 2001 | PQN | C14-C13-C15 | 3.40 | 120.99 | 115.27 |
| 21 | 2 | 1235 | CLA | C2D-C1D-ND | 3.40 | 112.61 | 110.10 |
| 21 | 1 | 1013 | CLA | O2D-CGD-CBD | 3.40 | 117.31 | 111.27 |
| 21 | A | 1115 | CLA | CHD-C1D-ND | -3.40 | 121.33 | 124.45 |
| 21 | b | 1232 | CLA | CHD-C1D-ND | -3.40 | 121.33 | 124.45 |
| 21 | 1 | 1139 | CLA | CHD-C1D-ND | -3.40 | 121.33 | 124.45 |
| 21 | a | 1112 | CLA | O2D-CGD-CBD | 3.40 | 117.30 | 111.27 |
| 21 | f | 1302 | CLA | O2D-CGD-CBD | 3.40 | 117.30 | 111.27 |
| 21 | b | 1230 | CLA | C1D-ND-C4D | -3.39 | 103.92 | 106.33 |
| 21 | 2 | 1231 | CLA | O2D-CGD-CBD | 3.39 | 117.30 | 111.27 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | A | 1117 | CLA | C2D-C1D-ND | 3.39 | 112.60 | 110.10 |
| 21 | B | 1022 | CLA | CHD-C1D-ND | -3.39 | 121.34 | 124.45 |
| 21 | 1 | 1101 | CLA | CAA-C2A-C3A | -3.39 | 103.50 | 112.78 |
| 21 | b | 1209 | CLA | C1D-ND-C4D | -3.39 | 103.93 | 106.33 |
| 24 | L | 4019 | BCR | C15-C14-C13 | 3.39 | 132.14 | 127.31 |
| 21 | F | 1301 | CLA | O2D-CGD-CBD | 3.39 | 117.28 | 111.27 |
| 21 | b | 1209 | CLA | C2D-C1D-ND | 3.39 | 112.60 | 110.10 |
| 21 | B | 1218 | CLA | O2D-CGD-CBD | 3.39 | 117.28 | 111.27 |
| 21 | 2 | 1240 | CLA | O2D-CGD-CBD | 3.39 | 117.28 | 111.27 |
| 21 | A | 1106 | CLA | CMB-C2B-C1B | -3.39 | 123.26 | 128.46 |
| 21 | 1 | 1111 | CLA | CHD-C1D-ND | -3.38 | 121.34 | 124.45 |
| 21 | 1 | 1104 | CLA | C2D-C1D-ND | 3.38 | 112.60 | 110.10 |
| 21 | 1 | 1134 | CLA | C1D-ND-C4D | -3.38 | 103.93 | 106.33 |
| 21 | A | 1103 | CLA | O2D-CGD-CBD | 3.38 | 117.28 | 111.27 |
| 21 | 1 | 1115 | CLA | C1D-ND-C4D | -3.38 | 103.94 | 106.33 |
| 21 | A | 1139 | CLA | C2D-C1D-ND | 3.38 | 112.59 | 110.10 |
| 21 | 1 | 1137 | CLA | C2D-C1D-ND | 3.38 | 112.59 | 110.10 |
| 21 | 1 | 1125 | CLA | O2D-CGD-CBD | 3.38 | 117.27 | 111.27 |
| 21 | 2 | 1229 | CLA | O2D-CGD-CBD | 3.38 | 117.27 | 111.27 |
| 24 | L | 4019 | BCR | C40-C30-C25 | -3.38 | 104.82 | 110.30 |
| 21 | a | 1120 | CLA | C2D-C1D-ND | 3.37 | 112.59 | 110.10 |
| 21 | b | 1232 | CLA | O2D-CGD-CBD | 3.37 | 117.26 | 111.27 |
| 21 | 7 | 1303 | CLA | O2D-CGD-CBD | 3.37 | 117.26 | 111.27 |
| 21 | B | 1212 | CLA | C1D-ND-C4D | -3.37 | 103.94 | 106.33 |
| 21 | a | 1113 | CLA | C2D-C1D-ND | 3.37 | 112.59 | 110.10 |
| 21 | b | 1215 | CLA | C2D-C1D-ND | 3.37 | 112.59 | 110.10 |
| 21 | A | 1139 | CLA | CHD-C1D-ND | -3.37 | 121.36 | 124.45 |
| 30 | i | 4020 | ECH | C20-C21-C22 | -3.37 | 122.50 | 127.31 |
| 21 | 2 | 1209 | CLA | O2D-CGD-CBD | 3.37 | 117.25 | 111.27 |
| 21 | A | 1107 | CLA | CHD-C1D-ND | -3.37 | 121.36 | 124.45 |
| 21 | A | 1117 | CLA | CMA-C3A-C4A | 3.37 | 120.82 | 111.77 |
| 21 | 1 | 1136 | CLA | O2D-CGD-CBD | 3.36 | 117.25 | 111.27 |
| 21 | 2 | 1234 | CLA | C1D-ND-C4D | -3.36 | 103.95 | 106.33 |
| 21 | A | 1129 | CLA | C1D-ND-C4D | -3.36 | 103.95 | 106.33 |
| 21 | J | 1302 | CLA | CHD-C1D-ND | -3.36 | 121.37 | 124.45 |
| 21 | 1 | 1104 | CLA | O2D-CGD-CBD | 3.36 | 117.23 | 111.27 |
| 30 | M | 4021 | ECH | C16-C17-C18 | -3.35 | 122.52 | 127.31 |
| 21 | a | 1132 | CLA | C2D-C1D-ND | 3.35 | 112.58 | 110.10 |
| 21 | 1 | 1124 | CLA | CHD-C1D-ND | -3.35 | 121.37 | 124.45 |
| 30 | B | 4006 | ECH | C11-C12-C13 | -3.35 | 117.00 | 126.42 |
| 21 | B | 1237 | CLA | C1D-ND-C4D | -3.35 | 103.95 | 106.33 |
| 21 | B | 1235 | CLA | C1D-ND-C4D | -3.35 | 103.95 | 106.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 24 | a | 4019 | BCR | C40-C30-C25 | -3.35 | 104.86 | 110.30 |
| 21 | J | 1303 | CLA | C2D-C1D-ND | 3.35 | 112.57 | 110.10 |
| 21 | L | 1503 | CLA | C2D-C1D-ND | 3.35 | 112.57 | 110.10 |
| 21 | 2 | 1236 | CLA | C1D-ND-C4D | -3.35 | 103.95 | 106.33 |
| 24 | 2 | 4004 | BCR | C40-C30-C25 | -3.35 | 104.87 | 110.30 |
| 21 | 1 | 1128 | CLA | CHD-C1D-ND | -3.35 | 121.38 | 124.45 |
| 21 | A | 1101 | CLA | C2D-C1D-ND | 3.35 | 112.57 | 110.10 |
| 21 | a | 1124 | CLA | C1D-ND-C4D | -3.35 | 103.96 | 106.33 |
| 21 | 2 | 1219 | CLA | CHD-C1D-ND | -3.35 | 121.38 | 124.45 |
| 34 | J | 4015 | ZEX | C38-C24-C23 | 3.35 | 117.38 | 112.20 |
| 21 | 1 | 1131 | CLA | O2D-CGD-CBD | 3.35 | 117.21 | 111.27 |
| 21 | B | 1223 | CLA | O2D-CGD-CBD | 3.35 | 117.21 | 111.27 |
| 21 | B | 1215 | CLA | O2D-CGD-CBD | 3.34 | 117.21 | 111.27 |
| 21 | b | 1219 | CLA | C2D-C1D-ND | 3.34 | 112.57 | 110.10 |
| 21 | A | 1114 | CLA | CHD-C1D-ND | -3.34 | 121.38 | 124.45 |
| 21 | a | 1125 | CLA | C2D-C1D-ND | 3.34 | 112.57 | 110.10 |
| 21 | B | 1203 | CLA | O2D-CGD-CBD | 3.34 | 117.21 | 111.27 |
| 21 | a | 1117 | CLA | C2D-C1D-ND | 3.34 | 112.57 | 110.10 |
| 21 | A | 1123 | CLA | CHD-C1D-ND | -3.34 | 121.38 | 124.45 |
| 24 | a | 4002 | BCR | C40-C30-C25 | -3.34 | 104.88 | 110.30 |
| 21 | a | 1138 | CLA | CHD-C1D-ND | -3.34 | 121.39 | 124.45 |
| 21 | B | 1210 | CLA | O2D-CGD-CBD | 3.34 | 117.20 | 111.27 |
| 21 | 1 | 1115 | CLA | O2D-CGD-CBD | 3.34 | 117.20 | 111.27 |
| 30 | M | 4021 | ECH | C15-C14-C13 | -3.34 | 122.55 | 127.31 |
| 21 | B | 1240 | CLA | C2D-C1D-ND | 3.34 | 112.56 | 110.10 |
| 21 | b | 1208 | CLA | C2D-C1D-ND | 3.34 | 112.56 | 110.10 |
| 21 | 1 | 1127 | CLA | C2D-C1D-ND | 3.34 | 112.56 | 110.10 |
| 24 | a | 4007 | BCR | C40-C30-C25 | -3.34 | 104.89 | 110.30 |
| 21 | a | 1109 | CLA | O2D-CGD-CBD | 3.34 | 117.20 | 111.27 |
| 22 | A | 2001 | PQN | C11-C12-C13 | -3.34 | 121.24 | 126.79 |
| 21 | A | 1120 | CLA | C1D-ND-C4D | -3.33 | 103.97 | 106.33 |
| 21 | A | 1121 | CLA | C1D-ND-C4D | -3.33 | 103.97 | 106.33 |
| 21 | 2 | 1219 | CLA | C1D-ND-C4D | -3.33 | 103.97 | 106.33 |
| 21 | b | 1215 | CLA | O2D-CGD-CBD | 3.33 | 117.19 | 111.27 |
| 21 | B | 1237 | CLA | C2D-C1D-ND | 3.33 | 112.56 | 110.10 |
| 21 | k | 1402 | CLA | C1D-ND-C4D | -3.33 | 103.97 | 106.33 |
| 21 | A | 1109 | CLA | C2D-C1D-ND | 3.33 | 112.56 | 110.10 |
| 21 | A | 1139 | CLA | O2D-CGD-CBD | 3.33 | 117.18 | 111.27 |
| 21 | 2 | 1227 | CLA | O2D-CGD-CBD | 3.33 | 117.18 | 111.27 |
| 31 | 0 | 5005 | SQD | O7-S-C6 | -3.33 | 102.98 | 106.94 |
| 21 | 2 | 1215 | CLA | C2D-C1D-ND | 3.33 | 112.56 | 110.10 |
| 24 | f | 4016 | BCR | C12-C13-C14 | 3.33 | 124.04 | 118.94 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | 2 | 1216 | CLA | CHD-C1D-ND | -3.32 | 121.40 | 124.45 |
| 21 | b | 1227 | CLA | C2D-C1D-ND | 3.32 | 112.55 | 110.10 |
| 21 | 2 | 1220 | CLA | O2D-CGD-CBD | 3.32 | 117.17 | 111.27 |
| 21 | a | 1108 | CLA | C2D-C1D-ND | 3.32 | 112.55 | 110.10 |
| 21 | B | 1225 | CLA | O2D-CGD-CBD | 3.32 | 117.17 | 111.27 |
| 21 | 1 | 1139 | CLA | C2D-C1D-ND | 3.32 | 112.55 | 110.10 |
| 24 | b | 4004 | BCR | C30-C25-C24 | 3.32 | 125.17 | 115.78 |
| 30 | B | 4006 | ECH | C7-C8-C9 | -3.32 | 121.22 | 126.23 |
| 21 | 1 | 1114 | CLA | O2D-CGD-CBD | 3.32 | 117.16 | 111.27 |
| 21 | B | 1222 | CLA | C2D-C1D-ND | 3.32 | 112.55 | 110.10 |
| 30 | b | 4011 | ECH | C20-C19-C18 | -3.32 | 117.10 | 126.42 |
| 21 | 2 | 1229 | CLA | C1D-ND-C4D | -3.32 | 103.98 | 106.33 |
| 21 | a | 1110 | CLA | C2D-C1D-ND | 3.32 | 112.55 | 110.10 |
| 21 | b | 1235 | CLA | C2D-C1D-ND | 3.32 | 112.55 | 110.10 |
| 21 | B | 1203 | CLA | C2D-C1D-ND | 3.31 | 112.55 | 110.10 |
| 21 | 2 | 1214 | CLA | C2D-C1D-ND | 3.31 | 112.55 | 110.10 |
| 21 | B | 1206 | CLA | C2D-C1D-ND | 3.31 | 112.54 | 110.10 |
| 21 | B | 1217 | CLA | C2D-C1D-ND | 3.31 | 112.54 | 110.10 |
| 21 | 2 | 1222 | CLA | C2D-C1D-ND | 3.31 | 112.54 | 110.10 |
| 21 | 2 | 1239 | CLA | O2D-CGD-CBD | 3.31 | 117.15 | 111.27 |
| 21 | 1 | 1118 | CLA | O2D-CGD-CBD | 3.31 | 117.14 | 111.27 |
| 21 | 1 | 1127 | CLA | O2D-CGD-CBD | 3.31 | 117.14 | 111.27 |
| 21 | b | 1022 | CLA | O2D-CGD-CBD | 3.31 | 117.14 | 111.27 |
| 21 | a | 1130 | CLA | C2D-C1D-ND | 3.31 | 112.54 | 110.10 |
| 21 | 1 | 1131 | CLA | C2D-C1D-ND | 3.31 | 112.54 | 110.10 |
| 21 | 1 | 1801 | CLA | C1D-ND-C4D | -3.31 | 103.99 | 106.33 |
| 21 | A | 1126 | CLA | CHD-C1D-ND | -3.30 | 121.42 | 124.45 |
| 21 | a | 1801 | CLA | O2D-CGD-CBD | 3.30 | 117.14 | 111.27 |
| 21 | A | 1112 | CLA | O2D-CGD-CBD | 3.30 | 117.14 | 111.27 |
| 21 | 8 | 1402 | CLA | O2D-CGD-CBD | 3.30 | 117.14 | 111.27 |
| 21 | 2 | 1213 | CLA | C2D-C1D-ND | 3.30 | 112.54 | 110.10 |
| 21 | B | 1227 | CLA | CHD-C1D-ND | -3.30 | 121.42 | 124.45 |
| 21 | 2 | 1239 | CLA | C1D-ND-C4D | -3.30 | 103.99 | 106.33 |
| 21 | A | 1131 | CLA | C2D-C1D-ND | 3.30 | 112.53 | 110.10 |
| 21 | A | 1121 | CLA | C2D-C1D-ND | 3.29 | 112.53 | 110.10 |
| 21 | 1 | 1128 | CLA | C2D-C1D-ND | 3.29 | 112.53 | 110.10 |
| 22 | 1 | 2001 | PQN | C14-C13-C15 | 3.29 | 120.81 | 115.27 |
| 21 | 1 | 1131 | CLA | C1D-ND-C4D | -3.29 | 104.00 | 106.33 |
| 21 | 2 | 1023 | CLA | C2D-C1D-ND | 3.29 | 112.53 | 110.10 |
| 21 | b | 1208 | CLA | O2A-C1-C2 | 3.29 | 117.29 | 108.64 |
| 21 | a | 1114 | CLA | CHD-C1D-ND | -3.29 | 121.43 | 124.45 |
| 21 | B | 1232 | CLA | O2D-CGD-CBD | 3.29 | 117.12 | 111.27 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | b | 1228 | CLA | C2D-C1D-ND | 3.29 | 112.53 | 110.10 |
| 21 | L | 1501 | CLA | O2D-CGD-CBD | 3.29 | 117.12 | 111.27 |
| 21 | K | 1402 | CLA | C1D-ND-C4D | -3.29 | 104.00 | 106.33 |
| 21 | A | 1134 | CLA | O2D-CGD-CBD | 3.29 | 117.11 | 111.27 |
| 21 | 1 | 1121 | CLA | O2D-CGD-CBD | 3.29 | 117.11 | 111.27 |
| 21 | 2 | 1210 | CLA | C1D-ND-C4D | -3.29 | 104.00 | 106.33 |
| 21 | a | 1124 | CLA | O2D-CGD-CBD | 3.28 | 117.10 | 111.27 |
| 21 | b | 1235 | CLA | O2D-CGD-CBD | 3.28 | 117.10 | 111.27 |
| 21 | b | 1215 | CLA | C1-O2A-CGA | 3.28 | 125.05 | 116.44 |
| 21 | 2 | 1225 | CLA | O2D-CGD-CBD | 3.28 | 117.09 | 111.27 |
| 21 | B | 1211 | CLA | C2D-C1D-ND | 3.28 | 112.52 | 110.10 |
| 21 | a | 1127 | CLA | C2D-C1D-ND | 3.28 | 112.52 | 110.10 |
| 24 | b | 4017 | BCR | C39-C30-C25 | -3.27 | 104.99 | 110.30 |
| 21 | A | 1137 | CLA | C2D-C1D-ND | 3.27 | 112.52 | 110.10 |
| 21 | 1 | 1013 | CLA | C2D-C1D-ND | 3.27 | 112.52 | 110.10 |
| 21 | B | 1219 | CLA | C2D-C1D-ND | 3.27 | 112.51 | 110.10 |
| 21 | 2 | 1023 | CLA | CMB-C2B-C1B | -3.27 | 123.44 | 128.46 |
| 21 | 1 | 1137 | CLA | O2D-CGD-CBD | 3.27 | 117.08 | 111.27 |
| 21 | a | 1123 | CLA | CMA-C3A-C4A | 3.27 | 120.56 | 111.77 |
| 24 | b | 4005 | BCR | C40-C30-C25 | -3.27 | 105.00 | 110.30 |
| 21 | a | 1119 | CLA | C2D-C1D-ND | 3.27 | 112.51 | 110.10 |
| 31 | L | 5002 | SQD | O7-S-C6 | -3.26 | 103.06 | 106.94 |
| 21 | A | 1108 | CLA | C1D-ND-C4D | -3.26 | 104.02 | 106.33 |
| 21 | a | 1139 | CLA | O2D-CGD-CBD | 3.26 | 117.07 | 111.27 |
| 24 | 1 | 4002 | BCR | C38-C26-C25 | -3.26 | 120.86 | 124.53 |
| 21 | a | 1130 | CLA | O2D-CGD-CBD | 3.26 | 117.06 | 111.27 |
| 21 | f | 1302 | CLA | C2D-C1D-ND | 3.26 | 112.51 | 110.10 |
| 21 | 1 | 1109 | CLA | CMA-C3A-C4A | 3.26 | 120.54 | 111.77 |
| 21 | A | 1104 | CLA | O2D-CGD-CBD | 3.26 | 117.06 | 111.27 |
| 21 | A | 1801 | CLA | C1D-ND-C4D | -3.26 | 104.02 | 106.33 |
| 24 | a | 4012 | BCR | C39-C30-C25 | -3.26 | 105.01 | 110.30 |
| 21 | 1 | 1114 | CLA | C2D-C1D-ND | 3.26 | 112.50 | 110.10 |
| 21 | 2 | 1219 | CLA | C2D-C1D-ND | 3.26 | 112.50 | 110.10 |
| 21 | F | 1301 | CLA | CHD-C1D-ND | -3.26 | 121.46 | 124.45 |
| 21 | 1 | 1129 | CLA | C2D-C1D-ND | 3.26 | 112.50 | 110.10 |
| 21 | 1 | 1117 | CLA | CMA-C3A-C4A | 3.26 | 120.52 | 111.77 |
| 21 | j | 1302 | CLA | CHD-C1D-ND | -3.26 | 121.46 | 124.45 |
| 21 | 2 | 1228 | CLA | C2D-C1D-ND | 3.26 | 112.50 | 110.10 |
| 21 | 1 | 1105 | CLA | C1D-ND-C4D | -3.25 | 104.02 | 106.33 |
| 21 | b | 1235 | CLA | C1D-ND-C4D | -3.25 | 104.03 | 106.33 |
| 21 | a | 1120 | CLA | CMA-C3A-C4A | 3.25 | 120.51 | 111.77 |
| 21 | b | 1214 | CLA | C2D-C1D-ND | 3.25 | 112.50 | 110.10 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | b | 1234 | CLA | C2D-C1D-ND | 3.25 | 112.50 | 110.10 |
| 21 | 1 | 1136 | CLA | C1D-ND-C4D | -3.25 | 104.03 | 106.33 |
| 21 | A | 1114 | CLA | C2D-C1D-ND | 3.25 | 112.50 | 110.10 |
| 21 | b | 1239 | CLA | C2D-C1D-ND | 3.25 | 112.50 | 110.10 |
| 21 | A | 1114 | CLA | O2D-CGD-CBD | 3.25 | 117.04 | 111.27 |
| 21 | a | 1107 | CLA | O2D-CGD-CBD | 3.25 | 117.04 | 111.27 |
| 21 | 0 | 1502 | CLA | CMA-C3A-C4A | 3.25 | 120.50 | 111.77 |
| 21 | b | 1222 | CLA | C2D-C1D-ND | 3.25 | 112.50 | 110.10 |
| 21 | 2 | 1223 | CLA | O2D-CGD-CBD | 3.25 | 117.04 | 111.27 |
| 21 | a | 1120 | CLA | C1D-ND-C4D | -3.25 | 104.03 | 106.33 |
| 21 | A | 1116 | CLA | C2D-C1D-ND | 3.25 | 112.50 | 110.10 |
| 24 | f | 4016 | BCR | C40-C30-C25 | -3.25 | 105.03 | 110.30 |
| 26 | 0 | 5001 | LMG | O6-C5-C4 | 3.25 | 115.59 | 109.69 |
| 21 | f | 1301 | CLA | CHD-C1D-ND | -3.24 | 121.47 | 124.45 |
| 21 | K | 1402 | CLA | C2D-C1D-ND | 3.24 | 112.49 | 110.10 |
| 21 | L | 1503 | CLA | C1D-ND-C4D | -3.24 | 104.03 | 106.33 |
| 21 | A | 1119 | CLA | C2D-C1D-ND | 3.24 | 112.49 | 110.10 |
| 21 | 2 | 1230 | CLA | C2D-C1D-ND | 3.24 | 112.49 | 110.10 |
| 21 | B | 1236 | CLA | O2D-CGD-CBD | 3.24 | 117.03 | 111.27 |
| 21 | a | 1122 | CLA | C2D-C1D-ND | 3.24 | 112.49 | 110.10 |
| 21 | a | 1121 | CLA | C2D-C1D-ND | 3.24 | 112.49 | 110.10 |
| 21 | 1 | 1120 | CLA | C2D-C1D-ND | 3.24 | 112.49 | 110.10 |
| 21 | B | 1220 | CLA | O2D-CGD-CBD | 3.24 | 117.02 | 111.27 |
| 21 | 1 | 1122 | CLA | C2D-C1D-ND | 3.23 | 112.49 | 110.10 |
| 24 | h | 4018 | BCR | C40-C30-C25 | -3.23 | 105.05 | 110.30 |
| 21 | 2 | 1204 | CLA | C1D-ND-C4D | -3.23 | 104.04 | 106.33 |
| 30 | b | 4006 | ECH | C19-C18-C17 | -3.23 | 113.98 | 118.94 |
| 21 | 2 | 1204 | CLA | C2D-C1D-ND | 3.23 | 112.49 | 110.10 |
| 21 | F | 1301 | CLA | C2D-C1D-ND | 3.23 | 112.48 | 110.10 |
| 21 | b | 1022 | CLA | C2D-C1D-ND | 3.23 | 112.48 | 110.10 |
| 21 | a | 1109 | CLA | CMA-C3A-C4A | 3.23 | 120.45 | 111.77 |
| 21 | B | 1208 | CLA | CMB-C2B-C1B | -3.23 | 123.50 | 128.46 |
| 21 | a | 1114 | CLA | C2D-C1D-ND | 3.23 | 112.48 | 110.10 |
| 21 | k | 1401 | CLA | C2D-C1D-ND | 3.23 | 112.48 | 110.10 |
| 21 | 2 | 1222 | CLA | O2D-CGD-CBD | 3.23 | 117.00 | 111.27 |
| 21 | 2 | 1223 | CLA | C2D-C1D-ND | 3.23 | 112.48 | 110.10 |
| 21 | 2 | 1240 | CLA | CMA-C3A-C4A | 3.23 | 120.44 | 111.77 |
| 21 | a | 1117 | CLA | O2D-CGD-CBD | 3.23 | 117.00 | 111.27 |
| 21 | B | 1220 | CLA | C2D-C1D-ND | 3.23 | 112.48 | 110.10 |
| 24 | A | 4002 | BCR | C40-C30-C25 | -3.22 | 105.07 | 110.30 |
| 21 | b | 1224 | CLA | C2D-C1D-ND | 3.22 | 112.48 | 110.10 |
| 21 | L | 1501 | CLA | CHD-C1D-ND | -3.22 | 121.49 | 124.45 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | 2 | 1231 | CLA | C2D-C1D-ND | 3.22 | 112.48 | 110.10 |
| 21 | b | 1217 | CLA | C2D-C1D-ND | 3.22 | 112.48 | 110.10 |
| 21 | b | 1206 | CLA | O2D-CGD-CBD | 3.22 | 116.99 | 111.27 |
| 21 | a | 1137 | CLA | C2D-C1D-ND | 3.22 | 112.47 | 110.10 |
| 21 | a | 1108 | CLA | CMA-C3A-C4A | 3.22 | 120.42 | 111.77 |
| 21 | a | 1136 | CLA | CMA-C3A-C4A | 3.22 | 120.42 | 111.77 |
| 21 | b | 1236 | CLA | O2D-CGD-CBD | 3.22 | 116.98 | 111.27 |
| 21 | 2 | 1215 | CLA | CMB-C2B-C1B | -3.22 | 123.52 | 128.46 |
| 21 | b | 1021 | CLA | O2D-CGD-CBD | 3.22 | 116.98 | 111.27 |
| 21 | a | 1102 | CLA | C2D-C1D-ND | 3.21 | 112.47 | 110.10 |
| 21 | j | 1303 | CLA | C2D-C1D-ND | 3.21 | 112.47 | 110.10 |
| 24 | a | 4001 | BCR | C30-C25-C26 | -3.21 | 118.09 | 122.61 |
| 21 | B | 1228 | CLA | CHD-C1D-ND | -3.21 | 121.50 | 124.45 |
| 21 | A | 1011 | CLA | CHA-C1A-NA | -3.21 | 119.04 | 126.40 |
| 24 | l | 4019 | BCR | C34-C9-C10 | -3.21 | 118.42 | 122.92 |
| 25 | l | 5002 | LHG | C5-O7-C7 | -3.21 | 109.89 | 117.79 |
| 24 | B | 4005 | BCR | C40-C30-C25 | -3.21 | 105.10 | 110.30 |
| 30 | 2 | 4006 | ECH | C21-C20-C19 | -3.21 | 113.21 | 123.22 |
| 21 | 2 | 1218 | CLA | C1D-ND-C4D | -3.21 | 104.06 | 106.33 |
| 21 | 1 | 1109 | CLA | O2D-CGD-CBD | 3.21 | 116.97 | 111.27 |
| 21 | L | 1502 | CLA | C1D-ND-C4D | -3.21 | 104.06 | 106.33 |
| 21 | 1 | 1012 | CLA | C1D-ND-C4D | -3.21 | 104.06 | 106.33 |
| 31 | B | 5008 | SQD | O7-S-C6 | -3.20 | 103.13 | 106.94 |
| 21 | k | 1401 | CLA | CHD-C1D-ND | -3.20 | 121.51 | 124.45 |
| 21 | B | 1223 | CLA | C2D-C1D-ND | 3.20 | 112.46 | 110.10 |
| 21 | A | 1130 | CLA | O2A-CGA-CBA | 3.20 | 121.95 | 111.91 |
| 21 | a | 1117 | CLA | CMA-C3A-C4A | 3.20 | 120.38 | 111.77 |
| 21 | A | 1106 | CLA | CHD-C1D-ND | -3.20 | 121.51 | 124.45 |
| 21 | B | 1213 | CLA | CHD-C1D-ND | -3.20 | 121.52 | 124.45 |
| 21 | b | 1213 | CLA | C2D-C1D-ND | 3.20 | 112.46 | 110.10 |
| 21 | 1 | 1110 | CLA | C2D-C1D-ND | 3.20 | 112.46 | 110.10 |
| 21 | 1 | 1113 | CLA | C2D-C1D-ND | 3.20 | 112.46 | 110.10 |
| 34 | 7 | 4015 | ZEX | C31-C32-C33 | -3.19 | 117.44 | 126.42 |
| 30 | m | 4021 | ECH | C16-C17-C18 | -3.19 | 122.75 | 127.31 |
| 21 | a | 1112 | CLA | C2D-C1D-ND | 3.19 | 112.46 | 110.10 |
| 21 | 1 | 1124 | CLA | C2D-C1D-ND | 3.19 | 112.46 | 110.10 |
| 26 | b | 5007 | LMG | O1-C1-C2 | 3.19 | 113.29 | 108.30 |
| 21 | 1 | 1102 | CLA | CHD-C1D-ND | -3.19 | 121.52 | 124.45 |
| 21 | 2 | 1234 | CLA | CMA-C3A-C4A | 3.19 | 120.35 | 111.77 |
| 21 | A | 1136 | CLA | C1D-ND-C4D | -3.19 | 104.07 | 106.33 |
| 30 | i | 4020 | ECH | C23-C24-C25 | -3.19 | 118.24 | 127.20 |
| 21 | k | 1402 | CLA | O2D-CGD-CBD | 3.19 | 116.94 | 111.27 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | B | 1216 | CLA | C2D-C1D-ND | 3.19 | 112.45 | 110.10 |
| 21 | A | 1139 | CLA | CMA-C3A-C4A | 3.19 | 120.35 | 111.77 |
| 21 | 1 | 1118 | CLA | C2D-C1D-ND | 3.19 | 112.45 | 110.10 |
| 30 | m | 4021 | ECH | C24-C23-C22 | -3.19 | 121.42 | 126.23 |
| 21 | 2 | 1239 | CLA | CHD-C1D-ND | -3.19 | 121.53 | 124.45 |
| 21 | A | 1140 | CLA | C1D-ND-C4D | -3.18 | 104.07 | 106.33 |
| 21 | 1 | 1126 | CLA | C1D-ND-C4D | -3.18 | 104.07 | 106.33 |
| 21 | B | 1237 | CLA | O2D-CGD-CBD | 3.18 | 116.92 | 111.27 |
| 21 | a | 1118 | CLA | C2D-C1D-ND | 3.18 | 112.45 | 110.10 |
| 21 | b | 1023 | CLA | C2D-C1D-ND | 3.18 | 112.45 | 110.10 |
| 21 | b | 1207 | CLA | C2D-C1D-ND | 3.18 | 112.45 | 110.10 |
| 21 | f | 1301 | CLA | C2D-C1D-ND | 3.18 | 112.45 | 110.10 |
| 34 | J | 4015 | ZEX | C31-C32-C33 | -3.18 | 117.50 | 126.42 |
| 21 | A | 1117 | CLA | C1D-ND-C4D | -3.17 | 104.08 | 106.33 |
| 21 | b | 1210 | CLA | C2D-C1D-ND | 3.17 | 112.44 | 110.10 |
| 21 | l | 1501 | CLA | C2D-C1D-ND | 3.17 | 112.44 | 110.10 |
| 21 | A | 1118 | CLA | CHD-C1D-ND | -3.17 | 121.54 | 124.45 |
| 21 | B | 1210 | CLA | C2D-C1D-ND | 3.17 | 112.44 | 110.10 |
| 21 | B | 1215 | CLA | CMB-C2B-C1B | -3.17 | 123.59 | 128.46 |
| 24 | b | 4005 | BCR | C38-C26-C25 | -3.17 | 120.97 | 124.53 |
| 21 | 2 | 1224 | CLA | O2D-CGD-CBD | 3.17 | 116.90 | 111.27 |
| 21 | 1 | 1132 | CLA | C1D-ND-C4D | -3.17 | 104.08 | 106.33 |
| 34 | J | 4015 | ZEX | C39-C29-C30 | -3.17 | 118.48 | 122.92 |
| 21 | 1 | 1108 | CLA | CMA-C3A-C4A | 3.17 | 120.28 | 111.77 |
| 21 | A | 1129 | CLA | CMB-C2B-C1B | -3.17 | 123.60 | 128.46 |
| 21 | B | 1213 | CLA | C2D-C1D-ND | 3.16 | 112.44 | 110.10 |
| 21 | 2 | 1022 | CLA | C2D-C1D-ND | 3.16 | 112.44 | 110.10 |
| 21 | b | 1215 | CLA | CMB-C2B-C1B | -3.16 | 123.60 | 128.46 |
| 21 | B | 1234 | CLA | CMB-C2B-C1B | -3.16 | 123.61 | 128.46 |
| 24 | 1 | 4002 | BCR | C40-C30-C25 | -3.16 | 105.17 | 110.30 |
| 21 | A | 1127 | CLA | C2D-C1D-ND | 3.16 | 112.43 | 110.10 |
| 21 | 1 | 1133 | CLA | C2D-C1D-ND | 3.16 | 112.43 | 110.10 |
| 21 | A | 1130 | CLA | C2D-C1D-ND | 3.16 | 112.43 | 110.10 |
| 21 | 1 | 1139 | CLA | CMA-C3A-C4A | 3.16 | 120.25 | 111.77 |
| 21 | 2 | 1211 | CLA | CMA-C3A-C4A | 3.15 | 120.25 | 111.77 |
| 21 | 1 | 1107 | CLA | C2D-C1D-ND | 3.15 | 112.43 | 110.10 |
| 21 | A | 1135 | CLA | C1D-ND-C4D | -3.15 | 104.10 | 106.33 |
| 21 | B | 1209 | CLA | C1D-ND-C4D | -3.15 | 104.10 | 106.33 |
| 21 | 1 | 1124 | CLA | C1D-ND-C4D | -3.15 | 104.10 | 106.33 |
| 21 | 1 | 1122 | CLA | O2D-CGD-CBD | 3.15 | 116.86 | 111.27 |
| 21 | 8 | 1401 | CLA | CMA-C3A-C4A | 3.15 | 120.23 | 111.77 |
| 21 | a | 1135 | CLA | CMA-C3A-C4A | 3.15 | 120.23 | 111.77 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | b | 1232 | CLA | C1D-ND-C4D | -3.14 | 104.10 | 106.33 |
| 21 | j | 1302 | CLA | C1D-ND-C4D | -3.14 | 104.10 | 106.33 |
| 21 | B | 1240 | CLA | CMA-C3A-C4A | 3.14 | 120.22 | 111.77 |
| 21 | 2 | 1238 | CLA | C2D-C1D-ND | 3.14 | 112.42 | 110.10 |
| 21 | 2 | 1212 | CLA | CMB-C2B-C1B | -3.14 | 123.64 | 128.46 |
| 21 | 7 | 1303 | CLA | CMB-C2B-C1B | -3.14 | 123.64 | 128.46 |
| 21 | 2 | 1207 | CLA | O2D-CGD-CBD | 3.14 | 116.85 | 111.27 |
| 21 | B | 1201 | CLA | CHD-C1D-ND | -3.14 | 121.57 | 124.45 |
| 24 | f | 4016 | BCR | C15-C14-C13 | 3.14 | 131.79 | 127.31 |
| 25 | A | 5001 | LHG | O8-C23-C24 | 3.14 | 121.75 | 111.91 |
| 21 | B | 1228 | CLA | C1D-ND-C4D | -3.13 | 104.11 | 106.33 |
| 21 | A | 1117 | CLA | CMB-C2B-C1B | -3.13 | 123.65 | 128.46 |
| 21 | 2 | 1236 | CLA | CMA-C3A-C4A | 3.13 | 120.19 | 111.77 |
| 21 | A | 1102 | CLA | CMB-C2B-C1B | -3.13 | 123.65 | 128.46 |
| 21 | b | 1202 | CLA | C2D-C1D-ND | 3.13 | 112.41 | 110.10 |
| 35 | l | 6001 | LMT | C3'-C4'-C5' | -3.13 | 103.75 | 110.93 |
| 21 | j | 1303 | CLA | C1D-ND-C4D | -3.13 | 104.11 | 106.33 |
| 24 | h | 4018 | BCR | C39-C30-C25 | -3.13 | 105.23 | 110.30 |
| 21 | b | 1209 | CLA | CMA-C3A-C4A | 3.13 | 120.18 | 111.77 |
| 21 | b | 1224 | CLA | O2D-CGD-CBD | 3.13 | 116.82 | 111.27 |
| 21 | B | 1239 | CLA | C1D-ND-C4D | -3.13 | 104.11 | 106.33 |
| 21 | A | 1114 | CLA | C1D-ND-C4D | -3.13 | 104.11 | 106.33 |
| 21 | B | 1231 | CLA | CMB-C2B-C1B | -3.12 | 123.66 | 128.46 |
| 21 | 2 | 1220 | CLA | CMA-C3A-C4A | 3.12 | 120.17 | 111.77 |
| 21 | 1 | 1130 | CLA | C2D-C1D-ND | 3.12 | 112.41 | 110.10 |
| 21 | 2 | 1208 | CLA | C2D-C1D-ND | 3.12 | 112.41 | 110.10 |
| 21 | A | 1133 | CLA | C1D-ND-C4D | -3.12 | 104.12 | 106.33 |
| 21 | 2 | 1218 | CLA | CMA-C3A-C4A | 3.12 | 120.16 | 111.77 |
| 21 | 2 | 1224 | CLA | C1D-ND-C4D | -3.12 | 104.12 | 106.33 |
| 26 | 0 | 5001 | LMG | C1-O6-C5 | 3.12 | 119.81 | 113.69 |
| 21 | A | 1112 | CLA | C2D-C1D-ND | 3.12 | 112.40 | 110.10 |
| 21 | 1 | 1106 | CLA | C2D-C1D-ND | 3.12 | 112.40 | 110.10 |
| 21 | 8 | 1401 | CLA | C2D-C1D-ND | 3.12 | 112.40 | 110.10 |
| 21 | B | 1210 | CLA | CMB-C2B-C1B | -3.11 | 123.68 | 128.46 |
| 21 | 1 | 1128 | CLA | C1D-ND-C4D | -3.11 | 104.12 | 106.33 |
| 24 | 2 | 4011 | BCR | C39-C30-C25 | -3.11 | 105.25 | 110.30 |
| 21 | A | 1109 | CLA | CMB-C2B-C1B | -3.11 | 123.68 | 128.46 |
| 21 | b | 1212 | CLA | C1D-ND-C4D | -3.11 | 104.13 | 106.33 |
| 21 | B | 1220 | CLA | CMB-C2B-C1B | -3.11 | 123.69 | 128.46 |
| 21 | b | 1223 | CLA | O2D-CGD-CBD | 3.11 | 116.79 | 111.27 |
| 21 | b | 1208 | CLA | C1D-ND-C4D | -3.11 | 104.13 | 106.33 |
| 21 | 1 | 1126 | CLA | CMA-C3A-C4A | 3.11 | 120.12 | 111.77 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | 2 | 1217 | CLA | C2D-C1D-ND | 3.10 | 112.39 | 110.10 |
| 21 | b | 1219 | CLA | CMA-C3A-C4A | 3.10 | 120.11 | 111.77 |
| 21 | B | 1236 | CLA | C2D-C1D-ND | 3.10 | 112.39 | 110.10 |
| 21 | B | 1236 | CLA | C1D-ND-C4D | -3.10 | 104.13 | 106.33 |
| 21 | a | 1111 | CLA | C2D-C1D-ND | 3.10 | 112.39 | 110.10 |
| 21 | 6 | 1302 | CLA | CMA-C3A-C4A | 3.10 | 120.10 | 111.77 |
| 21 | A | 1121 | CLA | O2D-CGD-CBD | 3.10 | 116.77 | 111.27 |
| 21 | B | 1221 | CLA | C2D-C1D-ND | 3.10 | 112.39 | 110.10 |
| 21 | 1 | 1127 | CLA | CHD-C1D-ND | -3.10 | 121.61 | 124.45 |
| 21 | A | 1127 | CLA | O2D-CGD-CBD | 3.09 | 116.77 | 111.27 |
| 21 | b | 1203 | CLA | C2D-C1D-ND | 3.09 | 112.38 | 110.10 |
| 28 | h | 4020 | 45D | C31-C29-C25 | -3.09 | 122.90 | 127.31 |
| 21 | A | 1132 | CLA | C1D-ND-C4D | -3.09 | 104.14 | 106.33 |
| 21 | A | 1103 | CLA | C2D-C1D-ND | 3.09 | 112.38 | 110.10 |
| 24 | 0 | 4022 | BCR | C40-C30-C25 | -3.09 | 105.29 | 110.30 |
| 21 | A | 1122 | CLA | C2D-C1D-ND | 3.09 | 112.38 | 110.10 |
| 21 | 1 | 1801 | CLA | CMB-C2B-C1B | -3.09 | 123.72 | 128.46 |
| 21 | 1 | 1116 | CLA | C2D-C1D-ND | 3.09 | 112.38 | 110.10 |
| 21 | 0 | 1501 | CLA | C2D-C1D-ND | 3.09 | 112.38 | 110.10 |
| 21 | 2 | 1232 | CLA | O2D-CGD-CBD | 3.09 | 116.75 | 111.27 |
| 21 | b | 1213 | CLA | C1D-ND-C4D | -3.09 | 104.14 | 106.33 |
| 21 | A | 1135 | CLA | C2D-C1D-ND | 3.08 | 112.38 | 110.10 |
| 21 | a | 1101 | CLA | C2D-C1D-ND | 3.08 | 112.38 | 110.10 |
| 21 | 2 | 1209 | CLA | CMA-C3A-C4A | 3.08 | 120.06 | 111.77 |
| 21 | 7 | 1303 | CLA | CMA-C3A-C4A | 3.08 | 120.06 | 111.77 |
| 21 | B | 1224 | CLA | C1D-ND-C4D | -3.08 | 104.15 | 106.33 |
| 21 | J | 1302 | CLA | CMA-C3A-C4A | 3.08 | 120.05 | 111.77 |
| 21 | B | 1022 | CLA | O2D-CGD-CBD | 3.08 | 116.74 | 111.27 |
| 21 | B | 1237 | CLA | O2A-CGA-CBA | 3.08 | 121.57 | 111.91 |
| 21 | 1 | 1108 | CLA | C2D-C1D-ND | 3.08 | 112.37 | 110.10 |
| 21 | A | 1119 | CLA | CMB-C2B-C1B | -3.08 | 123.74 | 128.46 |
| 21 | A | 1111 | CLA | C2D-C1D-ND | 3.07 | 112.37 | 110.10 |
| 21 | 7 | 1302 | CLA | C1D-ND-C4D | -3.07 | 104.15 | 106.33 |
| 21 | b | 1238 | CLA | C1D-ND-C4D | -3.07 | 104.15 | 106.33 |
| 21 | B | 1220 | CLA | CMA-C3A-C4A | 3.07 | 120.03 | 111.77 |
| 21 | j | 1303 | CLA | CMA-C3A-C4A | 3.07 | 120.02 | 111.77 |
| 21 | a | 1105 | CLA | C2D-C1D-ND | 3.07 | 112.37 | 110.10 |
| 24 | A | 4001 | BCR | C34-C9-C10 | -3.07 | 118.62 | 122.92 |
| 21 | B | 1214 | CLA | O2D-CGD-CBD | 3.07 | 116.72 | 111.27 |
| 21 | 8 | 1402 | CLA | C1D-ND-C4D | -3.07 | 104.16 | 106.33 |
| 21 | a | 1126 | CLA | CMA-C3A-C4A | 3.07 | 120.02 | 111.77 |
| 21 | a | 1109 | CLA | C2D-C1D-ND | 3.07 | 112.36 | 110.10 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | 2 | 1207 | CLA | C2D-C1D-ND | 3.07 | 112.36 | 110.10 |
| 21 | 1 | 1113 | CLA | CMA-C3A-C4A | 3.07 | 120.01 | 111.77 |
| 21 | 2 | 1223 | CLA | CMA-C3A-C4A | 3.07 | 120.01 | 111.77 |
| 21 | B | 1202 | CLA | C2D-C1D-ND | 3.07 | 112.36 | 110.10 |
| 21 | a | 1129 | CLA | C2D-C1D-ND | 3.07 | 112.36 | 110.10 |
| 21 | 2 | 1208 | CLA | CMA-C3A-C4A | 3.06 | 120.01 | 111.77 |
| 21 | B | 1207 | CLA | O2A-CGA-CBA | 3.06 | 121.52 | 111.91 |
| 21 | 1 | 1136 | CLA | CMA-C3A-C4A | 3.06 | 120.01 | 111.77 |
| 24 | 1 | 4008 | BCR | C40-C30-C25 | -3.06 | 105.33 | 110.30 |
| 30 | b | 4006 | ECH | C21-C20-C19 | 3.06 | 132.78 | 123.22 |
| 21 | A | 1011 | CLA | CMB-C2B-C1B | -3.06 | 123.76 | 128.46 |
| 21 | A | 1134 | CLA | C2D-C1D-ND | 3.06 | 112.36 | 110.10 |
| 21 | b | 1207 | CLA | C1-O2A-CGA | 3.06 | 124.47 | 116.44 |
| 21 | 1 | 1120 | CLA | CMA-C3A-C4A | 3.06 | 120.00 | 111.77 |
| 21 | 2 | 1222 | CLA | C1D-ND-C4D | -3.06 | 104.16 | 106.33 |
| 21 | 2 | 1217 | CLA | CMA-C3A-C4A | 3.06 | 120.00 | 111.77 |
| 21 | 2 | 1206 | CLA | C2D-C1D-ND | 3.06 | 112.36 | 110.10 |
| 21 | 1 | 1122 | CLA | CMA-C3A-C4A | 3.06 | 120.00 | 111.77 |
| 21 | 2 | 1235 | CLA | O2D-CGD-CBD | 3.06 | 116.70 | 111.27 |
| 21 | F | 1302 | CLA | C2D-C1D-ND | 3.06 | 112.36 | 110.10 |
| 21 | b | 1207 | CLA | C1D-ND-C4D | -3.06 | 104.16 | 106.33 |
| 21 | A | 1107 | CLA | C2D-C1D-ND | 3.06 | 112.36 | 110.10 |
| 21 | A | 1102 | CLA | C2D-C1D-ND | 3.05 | 112.35 | 110.10 |
| 22 | B | 2002 | PQN | C14-C13-C15 | 3.05 | 120.41 | 115.27 |
| 21 | 2 | 1235 | CLA | C1D-ND-C4D | -3.05 | 104.17 | 106.33 |
| 21 | b | 1231 | CLA | C2D-C1D-ND | 3.05 | 112.35 | 110.10 |
| 21 | 1 | 1120 | CLA | CMB-C2B-C1B | -3.05 | 123.77 | 128.46 |
| 21 | a | 1131 | CLA | C2D-C1D-ND | 3.05 | 112.35 | 110.10 |
| 21 | A | 1103 | CLA | C1D-ND-C4D | -3.05 | 104.17 | 106.33 |
| 21 | a | 1122 | CLA | O2D-CGD-CBD | 3.05 | 116.69 | 111.27 |
| 21 | a | 1116 | CLA | C2D-C1D-ND | 3.05 | 112.35 | 110.10 |
| 21 | b | 1225 | CLA | C2D-C1D-ND | 3.05 | 112.35 | 110.10 |
| 30 | b | 4006 | ECH | C28-C27-C26 | -3.05 | 115.84 | 118.65 |
| 21 | b | 1209 | CLA | CMB-C2B-C1B | -3.05 | 123.78 | 128.46 |
| 36 | I | 4020 | EQ3 | C24-C23-C22 | -3.04 | 121.64 | 126.23 |
| 21 | b | 1238 | CLA | O2D-CGD-CBD | 3.04 | 116.67 | 111.27 |
| 21 | A | 1115 | CLA | C1D-ND-C4D | -3.04 | 104.17 | 106.33 |
| 26 | b | 5002 | LMG | O8-C28-C29 | 3.04 | 121.45 | 111.91 |
| 21 | 1 | 1110 | CLA | CMA-C3A-C4A | 3.04 | 119.94 | 111.77 |
| 21 | a | 1117 | CLA | C1D-ND-C4D | -3.04 | 104.18 | 106.33 |
| 21 | 1 | 1102 | CLA | C2D-C1D-ND | 3.04 | 112.34 | 110.10 |
| 24 | A | 4003 | BCR | C40-C30-C25 | -3.04 | 105.37 | 110.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 35 | L | 6001 | LMT | C1B-C2B-C3B | 3.04 | 116.32 | 110.00 |
| 21 | K | 1401 | CLA | C1D-ND-C4D | -3.03 | 104.18 | 106.33 |
| 36 | I | 4020 | EQ3 | C16-C15-C14 | -3.03 | 117.26 | 123.47 |
| 21 | a | 1107 | CLA | C2D-C1D-ND | 3.03 | 112.34 | 110.10 |
| 21 | 2 | 1203 | CLA | C1D-ND-C4D | -3.03 | 104.18 | 106.33 |
| 21 | A | 1108 | CLA | O2D-CGD-CBD | 3.03 | 116.66 | 111.27 |
| 21 | b | 1216 | CLA | O2D-CGD-CBD | 3.03 | 116.65 | 111.27 |
| 21 | A | 1012 | CLA | C1D-ND-C4D | -3.03 | 104.18 | 106.33 |
| 21 | 1 | 1114 | CLA | CMA-C3A-C4A | 3.03 | 119.92 | 111.77 |
| 21 | b | 1237 | CLA | C2D-C1D-ND | 3.03 | 112.33 | 110.10 |
| 21 | b | 1225 | CLA | C1D-ND-C4D | -3.03 | 104.19 | 106.33 |
| 21 | B | 1207 | CLA | CAC-C3C-C2C | 3.03 | 132.70 | 127.53 |
| 21 | 1 | 1105 | CLA | CMA-C3A-C4A | 3.03 | 119.90 | 111.77 |
| 21 | a | 1121 | CLA | CMA-C3A-C4A | 3.02 | 119.90 | 111.77 |
| 21 | b | 1225 | CLA | O2D-CGD-CBD | 3.02 | 116.64 | 111.27 |
| 21 | A | 1127 | CLA | C1D-ND-C4D | -3.02 | 104.19 | 106.33 |
| 21 | f | 1301 | CLA | C1D-ND-C4D | -3.02 | 104.19 | 106.33 |
| 21 | b | 1201 | CLA | C2D-C1D-ND | 3.02 | 112.33 | 110.10 |
| 24 | 7 | 4013 | BCR | C34-C9-C10 | -3.02 | 118.70 | 122.92 |
| 21 | 1 | 1135 | CLA | C1D-ND-C4D | -3.02 | 104.19 | 106.33 |
| 21 | a | 1140 | CLA | C2D-C1D-ND | 3.02 | 112.33 | 110.10 |
| 21 | A | 1122 | CLA | CMA-C3A-C4A | 3.02 | 119.88 | 111.77 |
| 21 | B | 1207 | CLA | CMA-C3A-C4A | 3.02 | 119.88 | 111.77 |
| 21 | A | 1105 | CLA | C1D-ND-C4D | -3.02 | 104.19 | 106.33 |
| 21 | a | 1127 | CLA | C1D-ND-C4D | -3.02 | 104.19 | 106.33 |
| 22 | b | 2002 | PQN | C17-C16-C15 | -3.01 | 105.17 | 113.36 |
| 21 | a | 1139 | CLA | CMA-C3A-C4A | 3.01 | 119.87 | 111.77 |
| 21 | 0 | 1503 | CLA | C2D-C1D-ND | 3.01 | 112.33 | 110.10 |
| 25 | A | 5001 | LHG | C5-O7-C7 | -3.01 | 110.37 | 117.79 |
| 21 | 2 | 1212 | CLA | C1D-ND-C4D | -3.01 | 104.19 | 106.33 |
| 34 | J | 4015 | ZEX | C37-C21-C26 | -3.01 | 105.42 | 110.30 |
| 21 | a | 1106 | CLA | C1D-ND-C4D | -3.01 | 104.20 | 106.33 |
| 21 | A | 1114 | CLA | CMA-C3A-C4A | 3.01 | 119.86 | 111.77 |
| 21 | J | 1303 | CLA | CMA-C3A-C4A | 3.01 | 119.86 | 111.77 |
| 21 | B | 1232 | CLA | CMA-C3A-C4A | 3.01 | 119.86 | 111.77 |
| 21 | A | 1139 | CLA | C1D-ND-C4D | -3.01 | 104.20 | 106.33 |
| 24 | f | 4016 | BCR | C2-C1-C6 | 3.01 | 115.11 | 110.48 |
| 21 | A | 1110 | CLA | C2D-C1D-ND | 3.01 | 112.32 | 110.10 |
| 21 | B | 1225 | CLA | CMA-C3A-C4A | 3.01 | 119.86 | 111.77 |
| 21 | A | 1107 | CLA | C1D-ND-C4D | -3.01 | 104.20 | 106.33 |
| 21 | a | 1138 | CLA | CMA-C3A-C4A | 3.01 | 119.85 | 111.77 |
| 24 | A | 4019 | BCR | C8-C9-C10 | 3.00 | 123.55 | 118.94 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | a | 1114 | CLA | C1D-ND-C4D | -3.00 | 104.20 | 106.33 |
| 21 | b | 1228 | CLA | C1D-ND-C4D | -3.00 | 104.20 | 106.33 |
| 34 | j | 4015 | ZEX | C28-C29-C30 | 3.00 | 123.55 | 118.94 |
| 21 | 1 | 1112 | CLA | CMA-C3A-C4A | 3.00 | 119.84 | 111.77 |
| 21 | b | 1236 | CLA | C1D-ND-C4D | -3.00 | 104.20 | 106.33 |
| 21 | A | 1118 | CLA | C2D-C1D-ND | 3.00 | 112.31 | 110.10 |
| 21 | 2 | 1205 | CLA | C2D-C1D-ND | 3.00 | 112.31 | 110.10 |
| 21 | 2 | 1219 | CLA | CMA-C3A-C4A | 3.00 | 119.83 | 111.77 |
| 21 | A | 1131 | CLA | C1D-ND-C4D | -3.00 | 104.20 | 106.33 |
| 21 | 1 | 1140 | CLA | CMA-C3A-C4A | 3.00 | 119.83 | 111.77 |
| 24 | L | 4019 | BCR | C39-C30-C25 | -3.00 | 105.44 | 110.30 |
| 21 | b | 1232 | CLA | CMA-C3A-C4A | 3.00 | 119.82 | 111.77 |
| 21 | B | 1231 | CLA | C2D-C1D-ND | 2.99 | 112.31 | 110.10 |
| 21 | 2 | 1225 | CLA | C2D-C1D-ND | 2.99 | 112.31 | 110.10 |
| 21 | b | 1240 | CLA | C1D-ND-C4D | -2.99 | 104.21 | 106.33 |
| 21 | A | 1011 | CLA | C2A-C1A-CHA | 2.99 | 129.09 | 123.86 |
| 21 | 1 | 1117 | CLA | C2D-C1D-ND | 2.99 | 112.31 | 110.10 |
| 30 | 2 | 4006 | ECH | C23-C22-C21 | -2.99 | 114.35 | 118.94 |
| 21 | K | 1401 | CLA | C2D-C1D-ND | 2.99 | 112.31 | 110.10 |
| 21 | a | 1127 | CLA | CMA-C3A-C4A | 2.99 | 119.81 | 111.77 |
| 21 | 1 | 1101 | CLA | CMA-C3A-C4A | 2.99 | 119.81 | 111.77 |
| 21 | a | 1119 | CLA | C1D-ND-C4D | -2.99 | 104.21 | 106.33 |
| 21 | 2 | 1225 | CLA | C1D-ND-C4D | -2.99 | 104.21 | 106.33 |
| 21 | b | 1210 | CLA | CMA-C3A-C4A | 2.99 | 119.80 | 111.77 |
| 21 | 1 | 1104 | CLA | C1D-ND-C4D | -2.99 | 104.21 | 106.33 |
| 21 | A | 1013 | CLA | CMB-C2B-C3B | 2.99 | 130.26 | 124.68 |
| 21 | A | 1136 | CLA | O2D-CGD-CBD | 2.98 | 116.57 | 111.27 |
| 21 | B | 1224 | CLA | O2A-CGA-CBA | 2.98 | 121.27 | 111.91 |
| 21 | 1 | 1138 | CLA | C2D-C1D-ND | 2.98 | 112.30 | 110.10 |
| 21 | 2 | 1204 | CLA | O2A-CGA-CBA | 2.98 | 121.27 | 111.91 |
| 21 | F | 1302 | CLA | CMA-C3A-C4A | 2.98 | 119.79 | 111.77 |
| 36 | I | 4020 | EQ3 | C21-C20-C19 | -2.98 | 113.91 | 123.22 |
| 21 | 2 | 1225 | CLA | CMA-C3A-C4A | 2.98 | 119.79 | 111.77 |
| 21 | 2 | 1202 | CLA | C2D-C1D-ND | 2.98 | 112.30 | 110.10 |
| 21 | 6 | 1301 | CLA | C2D-C1D-ND | 2.98 | 112.30 | 110.10 |
| 22 | 2 | 2002 | PQN | C14-C13-C15 | 2.98 | 120.28 | 115.27 |
| 21 | A | 1106 | CLA | C1D-ND-C4D | -2.98 | 104.22 | 106.33 |
| 21 | a | 1136 | CLA | C1D-ND-C4D | -2.98 | 104.22 | 106.33 |
| 21 | a | 1801 | CLA | CMA-C3A-C4A | 2.98 | 119.78 | 111.77 |
| 21 | 1 | 1011 | CLA | O2D-CGD-CBD | 2.98 | 116.56 | 111.27 |
| 21 | 2 | 1220 | CLA | C2D-C1D-ND | 2.98 | 112.30 | 110.10 |
| 24 | 2 | 4018 | BCR | C19-C18-C17 | 2.98 | 123.51 | 118.94 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | a | 1112 | CLA | CMB-C2B-C1B | -2.98 | 123.89 | 128.46 |
| 21 | b | 1219 | CLA | C1D-ND-C4D | -2.98 | 104.22 | 106.33 |
| 21 | A | 1128 | CLA | C2D-C1D-ND | 2.98 | 112.30 | 110.10 |
| 21 | a | 1122 | CLA | CMA-C3A-C4A | 2.98 | 119.77 | 111.77 |
| 28 | h | 4020 | 45D | C21-C15-C17 | 2.97 | 119.90 | 115.48 |
| 21 | b | 1203 | CLA | C1D-ND-C4D | -2.97 | 104.22 | 106.33 |
| 21 | A | 1102 | CLA | O2A-CGA-CBA | 2.97 | 121.23 | 111.91 |
| 21 | 2 | 1209 | CLA | C2D-C1D-ND | 2.97 | 112.29 | 110.10 |
| 21 | B | 1232 | CLA | C1D-ND-C4D | -2.97 | 104.22 | 106.33 |
| 21 | k | 1401 | CLA | O2D-CGD-CBD | 2.97 | 116.55 | 111.27 |
| 21 | k | 1401 | CLA | CMA-C3A-C4A | 2.97 | 119.76 | 111.77 |
| 21 | 1 | 1125 | CLA | CMA-C3A-C4A | 2.97 | 119.75 | 111.77 |
| 21 | B | 1215 | CLA | C2D-C1D-ND | 2.97 | 112.29 | 110.10 |
| 21 | B | 1222 | CLA | C1D-ND-C4D | -2.97 | 104.23 | 106.33 |
| 21 | b | 1234 | CLA | CMB-C2B-C1B | -2.97 | 123.90 | 128.46 |
| 35 | L | 6001 | LMT | O5B-C1B-C2B | 2.97 | 116.63 | 110.35 |
| 24 | B | 4004 | BCR | C38-C26-C25 | -2.97 | 121.20 | 124.53 |
| 21 | B | 1214 | CLA | C2D-C1D-ND | 2.96 | 112.29 | 110.10 |
| 21 | a | 1139 | CLA | C2D-C1D-ND | 2.96 | 112.29 | 110.10 |
| 21 | b | 1218 | CLA | C1D-ND-C4D | -2.96 | 104.23 | 106.33 |
| 21 | 2 | 1206 | CLA | O2D-CGD-CBD | 2.96 | 116.52 | 111.27 |
| 21 | b | 1220 | CLA | O2D-CGD-CBD | 2.96 | 116.52 | 111.27 |
| 21 | B | 1216 | CLA | C1D-ND-C4D | -2.96 | 104.23 | 106.33 |
| 21 | B | 1218 | CLA | C1D-ND-C4D | -2.96 | 104.23 | 106.33 |
| 21 | a | 1129 | CLA | C1D-ND-C4D | -2.96 | 104.23 | 106.33 |
| 21 | A | 1124 | CLA | CMB-C2B-C1B | -2.96 | 123.92 | 128.46 |
| 21 | b | 1206 | CLA | C2D-C1D-ND | 2.96 | 112.28 | 110.10 |
| 21 | a | 1135 | CLA | C2D-C1D-ND | 2.95 | 112.28 | 110.10 |
| 21 | b | 1236 | CLA | C2D-C1D-ND | 2.95 | 112.28 | 110.10 |
| 21 | 2 | 1238 | CLA | CMA-C3A-C4A | 2.95 | 119.71 | 111.77 |
| 21 | b | 1205 | CLA | CHD-C1D-ND | -2.95 | 121.74 | 124.45 |
| 21 | b | 1217 | CLA | CMA-C3A-C4A | 2.95 | 119.70 | 111.77 |
| 21 | b | 1022 | CLA | CMB-C2B-C1B | -2.95 | 123.93 | 128.46 |
| 21 | A | 1109 | CLA | C1D-ND-C4D | -2.95 | 104.24 | 106.33 |
| 21 | b | 1214 | CLA | C1D-ND-C4D | -2.95 | 104.24 | 106.33 |
| 24 | j | 4013 | BCR | C34-C9-C10 | -2.95 | 118.80 | 122.92 |
| 21 | a | 1114 | CLA | CMA-C3A-C4A | 2.95 | 119.69 | 111.77 |
| 26 | 0 | 5001 | LMG | C3-C4-C5 | 2.95 | 115.50 | 110.24 |
| 26 | A | 5002 | LMG | O8-C28-C29 | 2.95 | 121.15 | 111.91 |
| 21 | b | 1237 | CLA | O2A-CGA-CBA | 2.95 | 121.15 | 111.91 |
| 21 | 2 | 1211 | CLA | C2D-C1D-ND | 2.94 | 112.27 | 110.10 |
| 21 | 1 | 1123 | CLA | CMB-C2B-C1B | -2.94 | 123.94 | 128.46 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | 2 | 1231 | CLA | CMB-C2B-C1B | -2.94 | 123.94 | 128.46 |
| 21 | A | 1116 | CLA | C1D-ND-C4D | -2.94 | 104.25 | 106.33 |
| 21 | a | 1122 | CLA | C1D-ND-C4D | -2.94 | 104.25 | 106.33 |
| 21 | 1 | 1101 | CLA | C2D-C1D-ND | 2.94 | 112.27 | 110.10 |
| 24 | 9 | 4021 | BCR | C40-C30-C25 | -2.94 | 105.53 | 110.30 |
| 24 | 9 | 4021 | BCR | C12-C13-C14 | 2.94 | 123.45 | 118.94 |
| 21 | A | 1101 | CLA | C1D-ND-C4D | -2.94 | 104.25 | 106.33 |
| 21 | a | 1123 | CLA | C2D-C1D-ND | 2.94 | 112.27 | 110.10 |
| 24 | a | 4008 | BCR | C38-C26-C25 | -2.94 | 121.23 | 124.53 |
| 34 | 7 | 4015 | ZEX | C17-C1-C6 | -2.94 | 105.53 | 110.30 |
| 21 | b | 1207 | CLA | CMA-C3A-C4A | 2.94 | 119.67 | 111.77 |
| 21 | 1 | 1140 | CLA | C2D-C1D-ND | 2.94 | 112.27 | 110.10 |
| 21 | 1 | 1123 | CLA | CMA-C3A-C4A | 2.94 | 119.67 | 111.77 |
| 24 | l | 4022 | BCR | C40-C30-C25 | -2.94 | 105.54 | 110.30 |
| 21 | b | 1021 | CLA | CMB-C2B-C1B | -2.94 | 123.95 | 128.46 |
| 25 | 1 | 5003 | LHG | C5-O7-C7 | -2.93 | 110.57 | 117.79 |
| 21 | a | 1113 | CLA | CMA-C3A-C4A | 2.93 | 119.66 | 111.77 |
| 21 | A | 1113 | CLA | C2D-C1D-ND | 2.93 | 112.27 | 110.10 |
| 21 | 1 | 1124 | CLA | CMA-C3A-C4A | 2.93 | 119.65 | 111.77 |
| 21 | 2 | 1227 | CLA | C2D-C1D-ND | 2.93 | 112.26 | 110.10 |
| 21 | b | 1227 | CLA | C1D-ND-C4D | -2.93 | 104.25 | 106.33 |
| 21 | a | 1121 | CLA | C1D-ND-C4D | -2.93 | 104.25 | 106.33 |
| 21 | B | 1214 | CLA | CMA-C3A-C4A | 2.93 | 119.65 | 111.77 |
| 21 | b | 1202 | CLA | CMB-C2B-C1B | -2.93 | 123.96 | 128.46 |
| 21 | A | 1108 | CLA | CMA-C3A-C4A | 2.93 | 119.64 | 111.77 |
| 21 | 1 | 1139 | CLA | C1D-ND-C4D | -2.93 | 104.25 | 106.33 |
| 21 | b | 1238 | CLA | CMA-C3A-C4A | 2.93 | 119.64 | 111.77 |
| 21 | 1 | 1117 | CLA | O2D-CGD-CBD | 2.93 | 116.47 | 111.27 |
| 26 | a | 5004 | LMG | O8-C28-C29 | 2.93 | 121.09 | 111.91 |
| 21 | 1 | 1129 | CLA | C1D-ND-C4D | -2.93 | 104.26 | 106.33 |
| 21 | 2 | 1213 | CLA | C1D-ND-C4D | -2.93 | 104.26 | 106.33 |
| 21 | 1 | 1109 | CLA | CMD-C2D-C3D | -2.92 | 120.89 | 127.61 |
| 21 | B | 1223 | CLA | CMA-C3A-C4A | 2.92 | 119.63 | 111.77 |
| 21 | a | 1128 | CLA | C2D-C1D-ND | 2.92 | 112.26 | 110.10 |
| 21 | B | 1204 | CLA | C1D-ND-C4D | -2.92 | 104.26 | 106.33 |
| 30 | b | 4011 | ECH | C23-C24-C25 | -2.92 | 119.00 | 127.20 |
| 22 | 2 | 2002 | PQN | C2M-C2-C3 | -2.92 | 119.64 | 124.40 |
| 21 | a | 1132 | CLA | C1D-ND-C4D | -2.92 | 104.26 | 106.33 |
| 21 | 1 | 1122 | CLA | C1D-ND-C4D | -2.92 | 104.26 | 106.33 |
| 21 | a | 1124 | CLA | CMA-C3A-C4A | 2.92 | 119.61 | 111.77 |
| 24 | I | 4018 | BCR | C35-C13-C12 | 2.92 | 122.67 | 118.08 |
| 21 | a | 1116 | CLA | CMA-C3A-C4A | 2.92 | 119.61 | 111.77 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | 2 | 1021 | CLA | CMB-C2B-C1B | -2.91 | 123.98 | 128.46 |
| 21 | b | 1223 | CLA | CMA-C3A-C4A | 2.91 | 119.60 | 111.77 |
| 21 | 6 | 1302 | CLA | C2D-C1D-ND | 2.91 | 112.25 | 110.10 |
| 21 | 1 | 1108 | CLA | C1D-ND-C4D | -2.91 | 104.27 | 106.33 |
| 21 | a | 1103 | CLA | C2D-C1D-ND | 2.91 | 112.25 | 110.10 |
| 21 | a | 1011 | CLA | CMB-C2B-C1B | -2.91 | 123.99 | 128.46 |
| 21 | b | 1234 | CLA | C1D-ND-C4D | -2.91 | 104.27 | 106.33 |
| 21 | b | 1214 | CLA | CMA-C3A-C4A | 2.91 | 119.59 | 111.77 |
| 21 | 2 | 1212 | CLA | CMA-C3A-C4A | 2.91 | 119.58 | 111.77 |
| 21 | A | 1119 | CLA | CMB-C2B-C3B | 2.90 | 130.11 | 124.68 |
| 21 | 1 | 1102 | CLA | O2A-CGA-CBA | 2.90 | 121.02 | 111.91 |
| 21 | 2 | 1023 | CLA | O2D-CGD-CBD | 2.90 | 116.43 | 111.27 |
| 24 | K | 4001 | BCR | C40-C30-C25 | -2.90 | 105.59 | 110.30 |
| 21 | a | 1136 | CLA | O2A-CGA-CBA | 2.90 | 121.02 | 111.91 |
| 21 | b | 1210 | CLA | C1D-ND-C4D | -2.90 | 104.27 | 106.33 |
| 24 | 2 | 4010 | BCR | C15-C14-C13 | 2.90 | 131.45 | 127.31 |
| 28 | h | 4020 | 45D | C19-C23-C25 | -2.90 | 121.85 | 126.23 |
| 21 | 1 | 1103 | CLA | C2D-C1D-ND | 2.90 | 112.24 | 110.10 |
| 21 | 1 | 1114 | CLA | C1D-ND-C4D | -2.90 | 104.28 | 106.33 |
| 21 | B | 1219 | CLA | CMA-C3A-C4A | 2.90 | 119.56 | 111.77 |
| 21 | A | 1105 | CLA | CMA-C3A-C4A | 2.90 | 119.56 | 111.77 |
| 21 | a | 1012 | CLA | C1D-ND-C4D | -2.90 | 104.28 | 106.33 |
| 21 | A | 1122 | CLA | C1D-ND-C4D | -2.90 | 104.28 | 106.33 |
| 21 | B | 1211 | CLA | CMA-C3A-C4A | 2.90 | 119.56 | 111.77 |
| 24 | I | 4018 | BCR | C15-C14-C13 | 2.90 | 131.44 | 127.31 |
| 28 | B | 4011 | 45D | O02-C18-C16 | -2.89 | 118.40 | 120.96 |
| 36 | I | 4020 | EQ3 | C20-C21-C22 | -2.89 | 123.18 | 127.31 |
| 25 | B | 5006 | LHG | O8-C23-C24 | 2.89 | 120.99 | 111.91 |
| 21 | a | 1125 | CLA | CMA-C3A-C4A | 2.89 | 119.55 | 111.77 |
| 21 | 0 | 1503 | CLA | C1D-ND-C4D | -2.89 | 104.28 | 106.33 |
| 24 | A | 4003 | BCR | C19-C18-C17 | 2.89 | 123.38 | 118.94 |
| 21 | B | 1204 | CLA | C2D-C1D-ND | 2.89 | 112.23 | 110.10 |
| 21 | a | 1107 | CLA | CMA-C3A-C4A | 2.89 | 119.54 | 111.77 |
| 28 | B | 4011 | 45D | C31-C33-C35 | -2.89 | 118.30 | 126.42 |
| 24 | B | 4014 | BCR | C39-C30-C25 | -2.89 | 105.61 | 110.30 |
| 21 | 2 | 1207 | CLA | O2A-CGA-CBA | 2.89 | 120.97 | 111.91 |
| 21 | A | 1118 | CLA | O2D-CGD-CBD | 2.89 | 116.40 | 111.27 |
| 24 | 7 | 4013 | BCR | C40-C30-C25 | -2.89 | 105.62 | 110.30 |
| 21 | A | 1110 | CLA | C1D-ND-C4D | -2.89 | 104.28 | 106.33 |
| 25 | a | 5003 | LHG | O8-C23-C24 | 2.89 | 120.97 | 111.91 |
| 21 | b | 1221 | CLA | CMB-C2B-C1B | -2.89 | 124.03 | 128.46 |
| 21 | b | 1021 | CLA | C2D-C1D-ND | 2.89 | 112.23 | 110.10 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | B | 1202 | CLA | O2A-CGA-CBA | 2.89 | 120.96 | 111.91 |
| 35 | F | 6001 | LMT | C3'-C4'-C5' | -2.88 | 104.31 | 110.93 |
| 21 | a | 1113 | CLA | C1D-ND-C4D | -2.88 | 104.29 | 106.33 |
| 21 | 1 | 1112 | CLA | C2D-C1D-ND | 2.88 | 112.23 | 110.10 |
| 24 | B | 4014 | BCR | C19-C18-C17 | 2.88 | 123.36 | 118.94 |
| 21 | B | 1203 | CLA | C1D-ND-C4D | -2.88 | 104.29 | 106.33 |
| 21 | 7 | 1302 | CLA | CMA-C3A-C4A | 2.88 | 119.52 | 111.77 |
| 21 | 2 | 1203 | CLA | CMB-C2B-C1B | -2.88 | 124.03 | 128.46 |
| 21 | a | 1011 | CLA | C2D-C1D-ND | 2.88 | 112.23 | 110.10 |
| 21 | A | 1123 | CLA | CMA-C3A-C4A | 2.88 | 119.51 | 111.77 |
| 21 | A | 1138 | CLA | C2D-C1D-ND | 2.88 | 112.22 | 110.10 |
| 21 | b | 1221 | CLA | C2D-C1D-ND | 2.88 | 112.22 | 110.10 |
| 21 | a | 1012 | CLA | CMB-C2B-C3B | 2.88 | 130.06 | 124.68 |
| 21 | 1 | 1111 | CLA | C2D-C1D-ND | 2.88 | 112.22 | 110.10 |
| 21 | 1 | 1137 | CLA | C1D-ND-C4D | -2.88 | 104.29 | 106.33 |
| 24 | 0 | 4019 | BCR | C40-C30-C25 | -2.87 | 105.64 | 110.30 |
| 21 | 1 | 1138 | CLA | CMA-C3A-C4A | 2.87 | 119.50 | 111.77 |
| 21 | B | 1212 | CLA | CMA-C3A-C4A | 2.87 | 119.50 | 111.77 |
| 24 | 1 | 4003 | BCR | C1-C6-C5 | -2.87 | 118.57 | 122.61 |
| 21 | B | 1201 | CLA | O2D-CGD-CBD | 2.87 | 116.37 | 111.27 |
| 21 | 2 | 1229 | CLA | CMA-C3A-C4A | 2.87 | 119.49 | 111.77 |
| 36 | I | 4020 | EQ3 | C35-C13-C12 | 2.87 | 122.60 | 118.08 |
| 21 | 1 | 1127 | CLA | CMA-C3A-C4A | 2.87 | 119.49 | 111.77 |
| 24 | B | 4018 | BCR | C15-C14-C13 | -2.87 | 123.22 | 127.31 |
| 21 | A | 1125 | CLA | C1D-ND-C4D | -2.87 | 104.30 | 106.33 |
| 21 | B | 1217 | CLA | C1D-ND-C4D | -2.87 | 104.30 | 106.33 |
| 21 | a | 1801 | CLA | C1D-ND-C4D | -2.87 | 104.30 | 106.33 |
| 21 | A | 1011 | CLA | C2D-C1D-ND | 2.86 | 112.22 | 110.10 |
| 21 | 2 | 1201 | CLA | C2D-C1D-ND | 2.86 | 112.22 | 110.10 |
| 21 | 2 | 1232 | CLA | C2D-C1D-ND | 2.86 | 112.21 | 110.10 |
| 25 | 1 | 5003 | LHG | O8-C23-C24 | 2.86 | 120.88 | 111.91 |
| 21 | 1 | 1117 | CLA | CMB-C2B-C1B | -2.86 | 124.07 | 128.46 |
| 21 | B | 1231 | CLA | C1D-ND-C4D | -2.86 | 104.31 | 106.33 |
| 21 | 8 | 1401 | CLA | CMB-C2B-C1B | -2.86 | 124.07 | 128.46 |
| 21 | 2 | 1239 | CLA | CMA-C3A-C4A | 2.86 | 119.45 | 111.77 |
| 21 | 1 | 1115 | CLA | CMA-C3A-C4A | 2.86 | 119.45 | 111.77 |
| 21 | 0 | 1501 | CLA | C1D-ND-C4D | -2.85 | 104.31 | 106.33 |
| 21 | 1 | 1121 | CLA | CMA-C3A-C4A | 2.85 | 119.44 | 111.77 |
| 24 | A | 4012 | BCR | C38-C26-C25 | -2.85 | 121.33 | 124.53 |
| 21 | 2 | 1237 | CLA | C2D-C1D-ND | 2.85 | 112.20 | 110.10 |
| 24 | 0 | 4019 | BCR | C34-C9-C10 | -2.85 | 118.93 | 122.92 |
| 24 | I | 4018 | BCR | C40-C30-C25 | -2.85 | 105.68 | 110.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 24 | b | 4014 | BCR | C19-C18-C17 | 2.85 | 123.31 | 118.94 |
| 21 | 1 | 1011 | CLA | C2D-C1D-ND | 2.85 | 112.20 | 110.10 |
| 24 | b | 4014 | BCR | C39-C30-C25 | -2.85 | 105.68 | 110.30 |
| 21 | A | 1140 | CLA | CMA-C3A-C4A | 2.85 | 119.42 | 111.77 |
| 26 | B | 5002 | LMG | O8-C28-C29 | 2.85 | 120.84 | 111.91 |
| 21 | B | 1223 | CLA | C1D-ND-C4D | -2.84 | 104.31 | 106.33 |
| 24 | j | 4013 | BCR | C39-C30-C25 | -2.84 | 105.69 | 110.30 |
| 24 | j | 4013 | BCR | C8-C9-C10 | 2.84 | 123.30 | 118.94 |
| 21 | B | 1201 | CLA | C2D-C1D-ND | 2.84 | 112.20 | 110.10 |
| 21 | b | 1022 | CLA | C1D-ND-C4D | -2.84 | 104.32 | 106.33 |
| 21 | B | 1209 | CLA | CMA-C3A-C4A | 2.84 | 119.41 | 111.77 |
| 21 | a | 1011 | CLA | CHA-C1A-NA | -2.84 | 119.89 | 126.40 |
| 24 | 9 | 4021 | BCR | C30-C25-C24 | 2.84 | 123.81 | 115.78 |
| 21 | B | 1021 | CLA | CMB-C2B-C1B | -2.84 | 124.10 | 128.46 |
| 21 | b | 1231 | CLA | CMB-C2B-C1B | -2.84 | 124.10 | 128.46 |
| 21 | b | 1209 | CLA | C1-O2A-CGA | 2.84 | 123.89 | 116.44 |
| 21 | A | 1109 | CLA | O2A-CGA-CBA | 2.84 | 120.81 | 111.91 |
| 21 | A | 1113 | CLA | CMA-C3A-C4A | 2.84 | 119.39 | 111.77 |
| 21 | 2 | 1215 | CLA | C1-O2A-CGA | 2.83 | 123.88 | 116.44 |
| 21 | b | 1220 | CLA | CMB-C2B-C1B | -2.83 | 124.11 | 128.46 |
| 21 | 1 | 1501 | CLA | C1D-ND-C4D | -2.83 | 104.32 | 106.33 |
| 21 | 2 | 1238 | CLA | C1D-ND-C4D | -2.83 | 104.32 | 106.33 |
| 24 | a | 4003 | BCR | C27-C26-C25 | -2.83 | 118.62 | 122.73 |
| 21 | A | 1130 | CLA | C1-O2A-CGA | 2.83 | 123.88 | 116.44 |
| 21 | b | 1239 | CLA | C1D-ND-C4D | -2.83 | 104.32 | 106.33 |
| 21 | 2 | 1215 | CLA | CMA-C3A-C4A | 2.83 | 119.38 | 111.77 |
| 24 | i | 4018 | BCR | C40-C30-C25 | -2.83 | 105.71 | 110.30 |
| 21 | 1 | 1137 | CLA | O2A-CGA-CBA | 2.83 | 120.78 | 111.91 |
| 21 | 1 | 1137 | CLA | CMA-C3A-C4A | 2.83 | 119.37 | 111.77 |
| 21 | b | 1224 | CLA | O2A-CGA-CBA | 2.82 | 120.77 | 111.91 |
| 21 | b | 1217 | CLA | C1D-ND-C4D | -2.82 | 104.33 | 106.33 |
| 24 | 0 | 4019 | BCR | C38-C26-C25 | -2.82 | 121.36 | 124.53 |
| 24 | a | 4002 | BCR | C34-C9-C10 | -2.82 | 118.97 | 122.92 |
| 21 | b | 1202 | CLA | C1D-ND-C4D | -2.82 | 104.33 | 106.33 |
| 21 | A | 1136 | CLA | CMA-C3A-C4A | 2.82 | 119.36 | 111.77 |
| 21 | b | 1216 | CLA | C2D-C1D-ND | 2.82 | 112.18 | 110.10 |
| 30 | 2 | 4006 | ECH | C37-C22-C21 | 2.82 | 126.87 | 122.92 |
| 21 | a | 1125 | CLA | C1-O2A-CGA | 2.82 | 123.84 | 116.44 |
| 21 | b | 1240 | CLA | CMA-C3A-C4A | 2.82 | 119.34 | 111.77 |
| 21 | B | 1022 | CLA | C1D-ND-C4D | -2.82 | 104.33 | 106.33 |
| 21 | b | 1237 | CLA | C1D-ND-C4D | -2.82 | 104.33 | 106.33 |
| 25 | a | 5001 | LHG | C5-O7-C7 | -2.81 | 110.86 | 117.79 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | A | 1124 | CLA | C1D-ND-C4D | -2.81 | 104.34 | 106.33 |
| 21 | A | 1013 | CLA | C1D-ND-C4D | -2.81 | 104.34 | 106.33 |
| 21 | 2 | 1223 | CLA | C1D-ND-C4D | -2.81 | 104.34 | 106.33 |
| 21 | b | 1226 | CLA | C1D-ND-C4D | -2.81 | 104.34 | 106.33 |
| 21 | 2 | 1205 | CLA | CMA-C3A-C4A | 2.81 | 119.33 | 111.77 |
| 21 | 1 | 1106 | CLA | C1D-ND-C4D | -2.81 | 104.34 | 106.33 |
| 21 | 1 | 1107 | CLA | CMA-C3A-C4A | 2.81 | 119.32 | 111.77 |
| 24 | 2 | 4010 | BCR | C34-C9-C10 | -2.81 | 118.99 | 122.92 |
| 21 | a | 1135 | CLA | C1D-ND-C4D | -2.81 | 104.34 | 106.33 |
| 21 | B | 1215 | CLA | CMA-C3A-C4A | 2.81 | 119.32 | 111.77 |
| 21 | 2 | 1204 | CLA | C1-O2A-CGA | 2.81 | 123.81 | 116.44 |
| 22 | a | 2001 | PQN | C14-C13-C15 | 2.81 | 119.99 | 115.27 |
| 25 | 0 | 5002 | LHG | O8-C23-C24 | 2.81 | 120.72 | 111.91 |
| 21 | a | 1105 | CLA | CMA-C3A-C4A | 2.81 | 119.31 | 111.77 |
| 36 | I | 4020 | EQ3 | C10-C11-C12 | -2.81 | 114.46 | 123.22 |
| 26 | b | 5002 | LMG | C7-O1-C1 | -2.81 | 108.26 | 113.74 |
| 21 | a | 1105 | CLA | C1D-ND-C4D | -2.80 | 104.34 | 106.33 |
| 21 | A | 1124 | CLA | C2D-C1D-ND | 2.80 | 112.17 | 110.10 |
| 21 | 1 | 1128 | CLA | CMA-C3A-C4A | 2.80 | 119.31 | 111.77 |
| 21 | A | 1128 | CLA | C1D-ND-C4D | -2.80 | 104.34 | 106.33 |
| 21 | 1 | 1117 | CLA | C1D-ND-C4D | -2.80 | 104.34 | 106.33 |
| 34 | 7 | 4015 | ZEX | C39-C29-C30 | -2.80 | 119.00 | 122.92 |
| 21 | B | 1213 | CLA | CMA-C3A-C4A | 2.80 | 119.30 | 111.77 |
| 21 | f | 1302 | CLA | C1D-ND-C4D | -2.80 | 104.35 | 106.33 |
| 21 | b | 1205 | CLA | O2A-CGA-CBA | 2.80 | 120.69 | 111.91 |
| 21 | B | 1212 | CLA | CMB-C2B-C1B | -2.80 | 124.16 | 128.46 |
| 21 | A | 1134 | CLA | C1D-ND-C4D | -2.80 | 104.35 | 106.33 |
| 21 | 1 | 1135 | CLA | CMA-C3A-C4A | 2.80 | 119.29 | 111.77 |
| 21 | f | 1301 | CLA | CMB-C2B-C1B | -2.80 | 124.17 | 128.46 |
| 21 | a | 1140 | CLA | CMA-C3A-C4A | 2.80 | 119.29 | 111.77 |
| 21 | B | 1210 | CLA | CMA-C3A-C4A | 2.79 | 119.28 | 111.77 |
| 21 | 1 | 1111 | CLA | O2D-CGD-CBD | 2.79 | 116.23 | 111.27 |
| 21 | b | 1221 | CLA | CMA-C3A-C4A | 2.79 | 119.28 | 111.77 |
| 21 | 1 | 1124 | CLA | O2A-CGA-CBA | 2.79 | 120.67 | 111.91 |
| 21 | a | 1110 | CLA | CMA-C3A-C4A | 2.79 | 119.28 | 111.77 |
| 35 | 1 | 6001 | LMT | C1'-O5'-C5' | -2.79 | 108.21 | 113.69 |
| 21 | B | 1208 | CLA | CMA-C3A-C4A | 2.79 | 119.27 | 111.77 |
| 24 | 2 | 4018 | BCR | C36-C18-C19 | -2.79 | 113.68 | 118.08 |
| 21 | a | 1108 | CLA | C1D-ND-C4D | -2.79 | 104.35 | 106.33 |
| 21 | a | 1101 | CLA | C1D-ND-C4D | -2.79 | 104.35 | 106.33 |
| 21 | 1 | 1109 | CLA | C1D-ND-C4D | -2.79 | 104.35 | 106.33 |
| 21 | 2 | 1237 | CLA | CMA-C3A-C4A | 2.79 | 119.27 | 111.77 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | a | 1101 | CLA | CMA-C3A-C4A | 2.79 | 119.27 | 111.77 |
| 21 | B | 1238 | CLA | CMA-C3A-C4A | 2.79 | 119.26 | 111.77 |
| 21 | b | 1231 | CLA | C1D-ND-C4D | -2.78 | 104.36 | 106.33 |
| 24 | A | 4002 | BCR | C34-C9-C10 | -2.78 | 119.02 | 122.92 |
| 28 | h | 4020 | 45D | C31-C33-C35 | -2.78 | 118.60 | 126.42 |
| 21 | b | 1215 | CLA | C1D-ND-C4D | -2.78 | 104.36 | 106.33 |
| 21 | A | 1110 | CLA | CMA-C3A-C4A | 2.78 | 119.24 | 111.77 |
| 24 | J | 4013 | BCR | C39-C30-C25 | -2.78 | 105.79 | 110.30 |
| 21 | b | 1228 | CLA | O2D-CGD-CBD | 2.78 | 116.21 | 111.27 |
| 21 | A | 1119 | CLA | C1D-ND-C4D | -2.78 | 104.36 | 106.33 |
| 21 | a | 1107 | CLA | C1D-ND-C4D | -2.78 | 104.36 | 106.33 |
| 21 | f | 1302 | CLA | CMA-C3A-C4A | 2.78 | 119.24 | 111.77 |
| 21 | A | 1111 | CLA | C1D-ND-C4D | -2.78 | 104.36 | 106.33 |
| 26 | 0 | 5001 | LMG | O8-C28-C29 | 2.78 | 120.62 | 111.91 |
| 21 | b | 1234 | CLA | CMA-C3A-C4A | 2.78 | 119.23 | 111.77 |
| 21 | 7 | 1303 | CLA | C2D-C1D-ND | 2.77 | 112.15 | 110.10 |
| 21 | A | 1125 | CLA | CMB-C2B-C1B | -2.77 | 124.20 | 128.46 |
| 21 | A | 1112 | CLA | CMB-C2B-C1B | -2.77 | 124.20 | 128.46 |
| 21 | b | 1207 | CLA | O2A-C1-C2 | 2.77 | 115.92 | 108.64 |
| 21 | A | 1113 | CLA | C1D-ND-C4D | -2.77 | 104.37 | 106.33 |
| 21 | 6 | 1301 | CLA | C1D-ND-C4D | -2.77 | 104.37 | 106.33 |
| 21 | 1 | 1135 | CLA | C2D-C1D-ND | 2.77 | 112.15 | 110.10 |
| 25 | A | 5006 | LHG | O8-C23-C24 | 2.77 | 120.60 | 111.91 |
| 21 | K | 1402 | CLA | CMA-C3A-C4A | 2.77 | 119.22 | 111.77 |
| 21 | K | 1402 | CLA | O2A-CGA-CBA | 2.77 | 120.60 | 111.91 |
| 21 | 1 | 1120 | CLA | C1D-ND-C4D | -2.77 | 104.37 | 106.33 |
| 21 | 2 | 1239 | CLA | O2A-CGA-CBA | 2.77 | 120.59 | 111.91 |
| 21 | B | 1208 | CLA | C2D-C1D-ND | 2.77 | 112.14 | 110.10 |
| 21 | b | 1207 | CLA | O2D-CGD-CBD | 2.77 | 116.19 | 111.27 |
| 21 | A | 1118 | CLA | CMB-C2B-C1B | -2.77 | 124.21 | 128.46 |
| 21 | 2 | 1230 | CLA | C1D-ND-C4D | -2.77 | 104.37 | 106.33 |
| 21 | a | 1140 | CLA | CMB-C2B-C1B | -2.77 | 124.21 | 128.46 |
| 21 | A | 1106 | CLA | O2A-CGA-CBA | 2.77 | 120.59 | 111.91 |
| 21 | A | 1122 | CLA | O2D-CGD-CBD | 2.77 | 116.18 | 111.27 |
| 21 | J | 1303 | CLA | C1D-ND-C4D | -2.76 | 104.37 | 106.33 |
| 21 | a | 1114 | CLA | CMB-C2B-C1B | -2.76 | 124.22 | 128.46 |
| 21 | b | 1202 | CLA | O2A-CGA-CBA | 2.76 | 120.58 | 111.91 |
| 21 | A | 1121 | CLA | CMA-C3A-C4A | 2.76 | 119.20 | 111.77 |
| 34 | 7 | 4015 | ZEX | C37-C21-C26 | -2.76 | 105.82 | 110.30 |
| 24 | B | 4004 | BCR | C40-C30-C25 | -2.76 | 105.82 | 110.30 |
| 35 | L | 6001 | LMT | C3B-C4B-C5B | -2.76 | 105.31 | 110.24 |
| 21 | A | 1011 | CLA | CED-O2D-CGD | -2.76 | 109.69 | 115.94 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | 2 | 1231 | CLA | C1D-ND-C4D | -2.76 | 104.38 | 106.33 |
| 24 | 1 | 4007 | BCR | C40-C30-C25 | -2.76 | 105.83 | 110.30 |
| 21 | B | 1234 | CLA | CMA-C3A-C4A | 2.76 | 119.18 | 111.77 |
| 24 | 2 | 4005 | BCR | C38-C26-C25 | -2.75 | 121.44 | 124.53 |
| 21 | 1 | 1134 | CLA | CMA-C3A-C4A | 2.75 | 119.17 | 111.77 |
| 21 | 2 | 1226 | CLA | CMA-C3A-C4A | 2.75 | 119.17 | 111.77 |
| 21 | 1 | 1011 | CLA | CHA-C1A-NA | -2.75 | 120.09 | 126.40 |
| 26 | K | 5009 | LMG | O8-C28-C29 | 2.75 | 120.55 | 111.91 |
| 22 | a | 2001 | PQN | C12-C11-C3 | -2.75 | 104.63 | 112.05 |
| 21 | 1 | 1102 | CLA | CMB-C2B-C3B | 2.75 | 129.83 | 124.68 |
| 24 | 1 | 4002 | BCR | C34-C9-C10 | -2.75 | 119.07 | 122.92 |
| 21 | A | 1124 | CLA | CMB-C2B-C3B | 2.75 | 129.82 | 124.68 |
| 28 | B | 4011 | 45D | C28-C26-C30 | -2.75 | 119.07 | 122.92 |
| 24 | A | 4019 | BCR | C8-C7-C6 | 2.75 | 134.92 | 127.20 |
| 24 | b | 4005 | BCR | C37-C22-C23 | 2.75 | 122.41 | 118.08 |
| 21 | 2 | 1226 | CLA | CHA-C4D-ND | 2.75 | 138.24 | 132.50 |
| 21 | A | 1120 | CLA | CMA-C3A-C4A | 2.74 | 119.15 | 111.77 |
| 24 | 6 | 4016 | BCR | C12-C13-C14 | 2.74 | 123.15 | 118.94 |
| 21 | 1 | 1137 | CLA | CAA-CBA-CGA | -2.74 | 105.24 | 113.25 |
| 21 | 2 | 1232 | CLA | CMA-C3A-C4A | 2.74 | 119.14 | 111.77 |
| 34 | F | 4016 | ZEX | C1-C6-C5 | -2.74 | 118.75 | 122.61 |
| 21 | b | 1201 | CLA | O2D-CGD-CBD | 2.74 | 116.14 | 111.27 |
| 21 | a | 1130 | CLA | C1D-ND-C4D | -2.74 | 104.39 | 106.33 |
| 24 | I | 4018 | BCR | C39-C30-C25 | -2.74 | 105.86 | 110.30 |
| 21 | b | 1226 | CLA | CMD-C2D-C3D | -2.74 | 121.31 | 127.61 |
| 21 | A | 1123 | CLA | C2D-C1D-ND | 2.74 | 112.12 | 110.10 |
| 24 | a | 4008 | BCR | C39-C30-C25 | -2.74 | 105.86 | 110.30 |
| 21 | A | 1120 | CLA | CMB-C2B-C1B | -2.74 | 124.26 | 128.46 |
| 21 | A | 1112 | CLA | O2A-CGA-CBA | 2.74 | 120.49 | 111.91 |
| 21 | 2 | 1214 | CLA | C1D-ND-C4D | -2.74 | 104.39 | 106.33 |
| 21 | 2 | 1205 | CLA | O2A-CGA-CBA | 2.74 | 120.49 | 111.91 |
| 21 | 1 | 1140 | CLA | CMB-C2B-C1B | -2.73 | 124.26 | 128.46 |
| 24 | A | 4012 | BCR | C39-C30-C25 | -2.73 | 105.86 | 110.30 |
| 25 | a | 5007 | LHG | O8-C23-C24 | 2.73 | 120.49 | 111.91 |
| 21 | A | 1101 | CLA | CHA-C1A-NA | -2.73 | 120.14 | 126.40 |
| 21 | A | 1129 | CLA | O2D-CGD-O1D | -2.73 | 118.49 | 123.84 |
| 21 | b | 1218 | CLA | CMB-C2B-C3B | 2.73 | 129.79 | 124.68 |
| 21 | A | 1137 | CLA | C1D-ND-C4D | -2.73 | 104.39 | 106.33 |
| 21 | 1 | 1118 | CLA | CMB-C2B-C1B | -2.73 | 124.27 | 128.46 |
| 21 | b | 1218 | CLA | CMA-C3A-C4A | 2.73 | 119.11 | 111.77 |
| 24 | 2 | 4018 | BCR | C29-C28-C27 | 2.73 | 117.48 | 111.38 |
| 21 | a | 1118 | CLA | C1D-ND-C4D | -2.73 | 104.39 | 106.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | 2 | 1205 | CLA | C1D-ND-C4D | -2.73 | 104.39 | 106.33 |
| 21 | B | 1229 | CLA | C3D-C2D-C1D | -2.73 | 102.11 | 105.83 |
| 24 | a | 4012 | BCR | C8-C9-C10 | 2.73 | 123.13 | 118.94 |
| 21 | 2 | 1219 | CLA | O2A-CGA-CBA | 2.73 | 120.47 | 111.91 |
| 24 | B | 4018 | BCR | C38-C26-C25 | -2.73 | 121.46 | 124.53 |
| 21 | a | 1111 | CLA | C1D-ND-C4D | -2.73 | 104.40 | 106.33 |
| 21 | 1 | 1127 | CLA | C1D-ND-C4D | -2.73 | 104.40 | 106.33 |
| 21 | B | 1240 | CLA | CMB-C2B-C1B | -2.73 | 124.27 | 128.46 |
| 21 | A | 1011 | CLA | C1D-ND-C4D | -2.73 | 104.40 | 106.33 |
| 24 | 2 | 4014 | BCR | C40-C30-C25 | -2.73 | 105.88 | 110.30 |
| 24 | A | 4003 | BCR | C36-C18-C19 | -2.72 | 113.78 | 118.08 |
| 25 | b | 5004 | LHG | O8-C23-C24 | 2.72 | 120.46 | 111.91 |
| 21 | A | 1107 | CLA | CMA-C3A-C4A | 2.72 | 119.09 | 111.77 |
| 21 | a | 1011 | CLA | C2A-C1A-CHA | 2.72 | 128.62 | 123.86 |
| 21 | B | 1240 | CLA | C1D-ND-C4D | -2.72 | 104.40 | 106.33 |
| 21 | a | 1104 | CLA | C1D-ND-C4D | -2.72 | 104.40 | 106.33 |
| 21 | B | 1216 | CLA | CMA-C3A-C4A | 2.72 | 119.09 | 111.77 |
| 21 | B | 1238 | CLA | O2D-CGD-CBD | 2.72 | 116.10 | 111.27 |
| 21 | 1 | 1119 | CLA | C2D-C1D-ND | 2.72 | 112.11 | 110.10 |
| 21 | 1 | 1121 | CLA | C2D-C1D-ND | 2.72 | 112.11 | 110.10 |
| 21 | 1 | 1502 | CLA | CMA-C3A-C4A | 2.72 | 119.08 | 111.77 |
| 21 | F | 1301 | CLA | C1D-ND-C4D | -2.72 | 104.40 | 106.33 |
| 21 | 1 | 1116 | CLA | CMA-C3A-C4A | 2.72 | 119.08 | 111.77 |
| 26 | b | 5005 | LMG | O8-C28-C29 | 2.72 | 120.43 | 111.91 |
| 21 | a | 1013 | CLA | C1D-ND-C4D | -2.72 | 104.41 | 106.33 |
| 21 | 1 | 1133 | CLA | C1D-ND-C4D | -2.71 | 104.41 | 106.33 |
| 21 | b | 1230 | CLA | CMA-C3A-C4A | 2.71 | 119.07 | 111.77 |
| 26 | A | 5008 | LMG | O8-C28-C29 | 2.71 | 120.42 | 111.91 |
| 21 | B | 1207 | CLA | C1D-ND-C4D | -2.71 | 104.41 | 106.33 |
| 21 | a | 1110 | CLA | C1D-ND-C4D | -2.71 | 104.41 | 106.33 |
| 24 | B | 4014 | BCR | C36-C18-C19 | -2.71 | 113.81 | 118.08 |
| 26 | b | 5007 | LMG | O8-C28-C29 | 2.71 | 120.40 | 111.91 |
| 21 | a | 1125 | CLA | C1D-ND-C4D | -2.71 | 104.41 | 106.33 |
| 24 | 1 | 4007 | BCR | C38-C26-C25 | -2.70 | 121.49 | 124.53 |
| 21 | a | 1131 | CLA | C1D-ND-C4D | -2.70 | 104.41 | 106.33 |
| 21 | b | 1218 | CLA | O2D-CGD-CBD | 2.70 | 116.07 | 111.27 |
| 21 | 2 | 1234 | CLA | CMB-C2B-C1B | -2.70 | 124.31 | 128.46 |
| 25 | a | 5001 | LHG | O8-C23-C24 | 2.70 | 120.39 | 111.91 |
| 21 | 2 | 1221 | CLA | CHA-C4D-ND | 2.70 | 138.15 | 132.50 |
| 21 | a | 1114 | CLA | O2A-CGA-CBA | 2.70 | 120.38 | 111.91 |
| 21 | a | 1137 | CLA | C1D-ND-C4D | -2.70 | 104.42 | 106.33 |
| 21 | 1 | 1107 | CLA | C1D-ND-C4D | -2.70 | 104.42 | 106.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | 1 | 1116 | CLA | CMB-C2B-C1B | -2.70 | 124.32 | 128.46 |
| 21 | 2 | 1202 | CLA | CMA-C3A-C4A | 2.70 | 119.03 | 111.77 |
| 30 | m | 4021 | ECH | C37-C22-C23 | -2.70 | 113.83 | 118.08 |
| 25 | A | 5005 | LHG | C5-O7-C7 | -2.70 | 111.15 | 117.79 |
| 21 | B | 1021 | CLA | C2D-C1D-ND | 2.70 | 112.09 | 110.10 |
| 21 | B | 1022 | CLA | CMB-C2B-C1B | -2.70 | 124.32 | 128.46 |
| 21 | 2 | 1201 | CLA | CMB-C2B-C1B | -2.70 | 124.32 | 128.46 |
| 24 | f | 4016 | BCR | C32-C1-C6 | -2.70 | 105.93 | 110.30 |
| 24 | B | 4017 | BCR | C19-C18-C17 | 2.69 | 123.08 | 118.94 |
| 21 | A | 1130 | CLA | C1D-ND-C4D | -2.69 | 104.42 | 106.33 |
| 24 | b | 4004 | BCR | C38-C26-C25 | -2.69 | 121.50 | 124.53 |
| 24 | b | 4005 | BCR | C39-C30-C25 | -2.69 | 105.93 | 110.30 |
| 21 | 2 | 1206 | CLA | CMA-C3A-C4A | 2.69 | 119.01 | 111.77 |
| 21 | B | 1217 | CLA | CMA-C3A-C4A | 2.69 | 119.01 | 111.77 |
| 21 | a | 1115 | CLA | CMA-C3A-C4A | 2.69 | 119.01 | 111.77 |
| 21 | a | 1102 | CLA | C1D-ND-C4D | -2.69 | 104.42 | 106.33 |
| 24 | 8 | 4001 | BCR | C34-C9-C10 | -2.69 | 119.15 | 122.92 |
| 24 | a | 4007 | BCR | C38-C26-C25 | -2.69 | 121.51 | 124.53 |
| 21 | a | 1119 | CLA | CMB-C2B-C1B | -2.69 | 124.33 | 128.46 |
| 21 | L | 1501 | CLA | CMA-C3A-C4A | 2.69 | 119.00 | 111.77 |
| 24 | A | 4019 | BCR | C34-C9-C10 | -2.69 | 119.16 | 122.92 |
| 21 | 1 | 1801 | CLA | O2A-CGA-CBA | 2.69 | 120.34 | 111.91 |
| 36 | I | 4020 | EQ3 | C15-C16-C17 | -2.69 | 117.97 | 123.47 |
| 24 | K | 4001 | BCR | C23-C24-C25 | -2.69 | 119.66 | 127.20 |
| 26 | A | 5004 | LMG | O1-C1-C2 | 2.69 | 112.50 | 108.30 |
| 21 | a | 1119 | CLA | CMA-C3A-C4A | 2.68 | 118.99 | 111.77 |
| 21 | a | 1101 | CLA | CHA-C1A-NA | -2.68 | 120.25 | 126.40 |
| 21 | a | 1134 | CLA | CMA-C3A-C4A | 2.68 | 118.98 | 111.77 |
| 21 | 2 | 1211 | CLA | CMB-C2B-C1B | -2.68 | 124.34 | 128.46 |
| 21 | J | 1302 | CLA | C1D-ND-C4D | -2.68 | 104.43 | 106.33 |
| 21 | 1 | 1101 | CLA | C1D-ND-C4D | -2.68 | 104.43 | 106.33 |
| 28 | B | 4011 | 45D | C19-C23-C25 | -2.68 | 122.18 | 126.23 |
| 21 | 2 | 1210 | CLA | CMB-C2B-C1B | -2.68 | 124.34 | 128.46 |
| 24 | l | 4019 | BCR | C40-C30-C25 | -2.68 | 105.95 | 110.30 |
| 21 | b | 1202 | CLA | C1-O2A-CGA | 2.68 | 123.47 | 116.44 |
| 24 | b | 4017 | BCR | C38-C26-C25 | -2.68 | 121.52 | 124.53 |
| 21 | K | 1401 | CLA | CMA-C3A-C4A | 2.68 | 118.97 | 111.77 |
| 24 | I | 4018 | BCR | C12-C13-C14 | -2.68 | 114.83 | 118.94 |
| 24 | I | 4018 | BCR | C2-C1-C6 | 2.68 | 114.60 | 110.48 |
| 24 | b | 4014 | BCR | C36-C18-C19 | -2.68 | 113.86 | 118.08 |
| 21 | 2 | 1213 | CLA | CMA-C3A-C4A | 2.68 | 118.96 | 111.77 |
| 21 | 1 | 1011 | CLA | CHA-C4D-ND | 2.68 | 138.09 | 132.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 26 | 2 | 5005 | LMG | O8-C28-C29 | 2.67 | 120.30 | 111.91 |
| 24 | b | 4018 | BCR | C38-C26-C25 | -2.67 | 121.53 | 124.53 |
| 21 | B | 1231 | CLA | C1-O2A-CGA | 2.67 | 123.45 | 116.44 |
| 21 | k | 1401 | CLA | C1D-ND-C4D | -2.67 | 104.44 | 106.33 |
| 21 | l | 1106 | CLA | CMA-C3A-C4A | 2.67 | 118.95 | 111.77 |
| 21 | a | 1134 | CLA | C2D-C1D-ND | 2.67 | 112.07 | 110.10 |
| 21 | l | 1109 | CLA | CHA-C4D-ND | 2.67 | 138.08 | 132.50 |
| 21 | A | 1135 | CLA | CMA-C3A-C4A | 2.67 | 118.94 | 111.77 |
| 21 | A | 1124 | CLA | CMA-C3A-C4A | 2.67 | 118.94 | 111.77 |
| 21 | a | 1116 | CLA | C1D-ND-C4D | -2.67 | 104.44 | 106.33 |
| 21 | l | 1130 | CLA | C1D-ND-C4D | -2.66 | 104.44 | 106.33 |
| 21 | b | 1226 | CLA | C2D-C1D-ND | 2.66 | 112.07 | 110.10 |
| 21 | B | 1230 | CLA | CMB-C2B-C1B | -2.66 | 124.37 | 128.46 |
| 21 | L | 1501 | CLA | C1D-ND-C4D | -2.66 | 104.44 | 106.33 |
| 21 | 8 | 1402 | CLA | CMA-C3A-C4A | 2.66 | 118.93 | 111.77 |
| 21 | A | 1128 | CLA | O2A-CGA-CBA | 2.66 | 120.26 | 111.91 |
| 21 | a | 1124 | CLA | O2A-CGA-CBA | 2.66 | 120.26 | 111.91 |
| 24 | b | 4017 | BCR | C34-C9-C10 | -2.66 | 119.19 | 122.92 |
| 34 | J | 4015 | ZEX | C31-C30-C29 | -2.66 | 123.51 | 127.31 |
| 21 | l | 1130 | CLA | CMB-C2B-C3B | 2.66 | 129.66 | 124.68 |
| 21 | l | 1109 | CLA | C2D-C1D-ND | 2.66 | 112.06 | 110.10 |
| 21 | B | 1235 | CLA | CMA-C3A-C4A | 2.66 | 118.92 | 111.77 |
| 26 | l | 5004 | LMG | O8-C28-C29 | 2.66 | 120.25 | 111.91 |
| 21 | a | 1112 | CLA | CMA-C3A-C4A | 2.66 | 118.92 | 111.77 |
| 21 | B | 1239 | CLA | O2A-CGA-CBA | 2.66 | 120.25 | 111.91 |
| 24 | i | 4018 | BCR | C39-C30-C25 | -2.66 | 105.99 | 110.30 |
| 21 | 2 | 1021 | CLA | CHA-C4D-ND | 2.66 | 138.06 | 132.50 |
| 21 | 0 | 1501 | CLA | CMA-C3A-C4A | 2.66 | 118.91 | 111.77 |
| 24 | l | 4012 | BCR | C39-C30-C25 | -2.66 | 105.99 | 110.30 |
| 25 | F | 5002 | LHG | O8-C23-C24 | 2.65 | 120.24 | 111.91 |
| 24 | b | 4014 | BCR | C15-C14-C13 | 2.65 | 131.10 | 127.31 |
| 21 | a | 1109 | CLA | C1D-ND-C4D | -2.65 | 104.45 | 106.33 |
| 21 | A | 1130 | CLA | CMB-C2B-C3B | 2.65 | 129.64 | 124.68 |
| 21 | 2 | 1208 | CLA | C1D-ND-C4D | -2.65 | 104.45 | 106.33 |
| 21 | 2 | 1217 | CLA | C1D-ND-C4D | -2.65 | 104.45 | 106.33 |
| 21 | B | 1205 | CLA | CHD-C1D-ND | -2.65 | 122.02 | 124.45 |
| 21 | 2 | 1234 | CLA | O2D-CGD-CBD | 2.65 | 115.98 | 111.27 |
| 21 | b | 1204 | CLA | C1D-ND-C4D | -2.65 | 104.45 | 106.33 |
| 21 | 2 | 1209 | CLA | CHA-C4D-ND | 2.65 | 138.04 | 132.50 |
| 24 | A | 4007 | BCR | C40-C30-C25 | -2.65 | 106.00 | 110.30 |
| 24 | B | 4018 | BCR | C39-C30-C25 | -2.65 | 106.00 | 110.30 |
| 30 | b | 4006 | ECH | C36-C18-C19 | 2.65 | 122.25 | 118.08 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 26 | A | 5004 | LMG | O8-C28-C29 | 2.65 | 120.22 | 111.91 |
| 21 | 1 | 1116 | CLA | C1D-ND-C4D | -2.65 | 104.45 | 106.33 |
| 24 | k | 4001 | BCR | C40-C30-C25 | -2.65 | 106.01 | 110.30 |
| 21 | a | 1130 | CLA | CMA-C3A-C4A | 2.65 | 118.89 | 111.77 |
| 21 | F | 1301 | CLA | CMB-C2B-C1B | -2.65 | 124.40 | 128.46 |
| 21 | B | 1218 | CLA | CMA-C3A-C4A | 2.65 | 118.88 | 111.77 |
| 21 | 2 | 1201 | CLA | CMA-C3A-C4A | 2.65 | 118.88 | 111.77 |
| 21 | 1 | 1125 | CLA | C1D-ND-C4D | -2.65 | 104.46 | 106.33 |
| 24 | 1 | 4003 | BCR | C39-C30-C25 | -2.64 | 106.01 | 110.30 |
| 24 | 2 | 4018 | BCR | C34-C9-C10 | -2.64 | 119.22 | 122.92 |
| 21 | 1 | 1123 | CLA | C2D-C1D-ND | 2.64 | 112.05 | 110.10 |
| 21 | b | 1021 | CLA | CHA-C4D-ND | 2.64 | 138.03 | 132.50 |
| 24 | A | 4019 | BCR | C35-C13-C14 | -2.64 | 119.22 | 122.92 |
| 24 | A | 4001 | BCR | C35-C13-C12 | 2.64 | 122.24 | 118.08 |
| 28 | B | 4011 | 45D | C09-C05-C03 | 2.64 | 117.42 | 113.18 |
| 21 | b | 1239 | CLA | O2A-CGA-CBA | 2.64 | 120.19 | 111.91 |
| 21 | b | 1224 | CLA | C1D-ND-C4D | -2.64 | 104.46 | 106.33 |
| 21 | 8 | 1401 | CLA | C1D-ND-C4D | -2.64 | 104.46 | 106.33 |
| 21 | B | 1201 | CLA | O2A-CGA-CBA | 2.64 | 120.19 | 111.91 |
| 24 | b | 4010 | BCR | C40-C30-C25 | -2.64 | 106.02 | 110.30 |
| 21 | b | 1204 | CLA | C1-O2A-CGA | 2.64 | 123.37 | 116.44 |
| 21 | b | 1220 | CLA | O2A-CGA-CBA | 2.64 | 120.19 | 111.91 |
| 24 | 2 | 4014 | BCR | C39-C30-C25 | -2.64 | 106.02 | 110.30 |
| 24 | L | 4019 | BCR | C37-C22-C23 | 2.64 | 122.23 | 118.08 |
| 26 | B | 5005 | LMG | O8-C28-C29 | 2.64 | 120.18 | 111.91 |
| 25 | 0 | 5004 | LHG | O8-C23-C24 | 2.64 | 120.18 | 111.91 |
| 24 | A | 4002 | BCR | C8-C9-C10 | 2.64 | 122.98 | 118.94 |
| 21 | 2 | 1221 | CLA | CMD-C2D-C3D | -2.63 | 121.56 | 127.61 |
| 21 | a | 1137 | CLA | CHA-C4D-ND | 2.63 | 138.01 | 132.50 |
| 24 | 0 | 4022 | BCR | C34-C9-C10 | -2.63 | 119.24 | 122.92 |
| 25 | 1 | 5001 | LHG | O8-C23-C24 | 2.63 | 120.17 | 111.91 |
| 24 | B | 4017 | BCR | C38-C26-C25 | -2.63 | 121.57 | 124.53 |
| 21 | a | 1129 | CLA | CMB-C2B-C1B | -2.63 | 124.42 | 128.46 |
| 21 | a | 1128 | CLA | CMA-C3A-C4A | 2.63 | 118.84 | 111.77 |
| 21 | 2 | 1226 | CLA | C2D-C1D-ND | 2.63 | 112.04 | 110.10 |
| 21 | a | 1012 | CLA | CHD-C1D-ND | -2.63 | 122.04 | 124.45 |
| 21 | a | 1011 | CLA | CHA-C4D-ND | 2.63 | 138.00 | 132.50 |
| 21 | b | 1231 | CLA | C1-O2A-CGA | 2.63 | 123.34 | 116.44 |
| 25 | l | 5001 | LHG | C5-O7-C7 | -2.63 | 111.32 | 117.79 |
| 21 | J | 1302 | CLA | C1-O2A-CGA | 2.63 | 123.34 | 116.44 |
| 21 | 2 | 1201 | CLA | O2A-CGA-CBA | 2.63 | 120.15 | 111.91 |
| 21 | B | 1023 | CLA | CMA-C3A-C4A | 2.63 | 118.83 | 111.77 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 25 | a | 5005 | LHG | O8-C23-C24 | 2.63 | 120.15 | 111.91 |
| 21 | 1 | 1138 | CLA | C1D-ND-C4D | -2.62 | 104.47 | 106.33 |
| 26 | b | 5005 | LMG | O1-C7-C8 | -2.62 | 104.57 | 110.90 |
| 24 | i | 4018 | BCR | C38-C26-C25 | -2.62 | 121.58 | 124.53 |
| 21 | 1 | 1011 | CLA | C2A-C1A-CHA | 2.62 | 128.44 | 123.86 |
| 21 | 2 | 1235 | CLA | CMA-C3A-C4A | 2.62 | 118.82 | 111.77 |
| 21 | 1 | 1801 | CLA | CMA-C3A-C4A | 2.62 | 118.81 | 111.77 |
| 21 | b | 1212 | CLA | CHA-C4D-ND | 2.62 | 137.98 | 132.50 |
| 21 | 2 | 1021 | CLA | C2D-C1D-ND | 2.62 | 112.03 | 110.10 |
| 24 | 9 | 4021 | BCR | C34-C9-C10 | -2.62 | 119.26 | 122.92 |
| 30 | B | 4006 | ECH | C8-C7-C6 | -2.62 | 119.86 | 127.20 |
| 21 | 1 | 1101 | CLA | CHA-C1A-NA | -2.62 | 120.41 | 126.40 |
| 21 | b | 1220 | CLA | C1D-ND-C4D | -2.62 | 104.48 | 106.33 |
| 24 | 0 | 4022 | BCR | C29-C28-C27 | 2.62 | 117.22 | 111.38 |
| 21 | k | 1402 | CLA | O2A-CGA-CBA | 2.61 | 120.11 | 111.91 |
| 21 | A | 1138 | CLA | C1D-ND-C4D | -2.61 | 104.48 | 106.33 |
| 24 | 7 | 4013 | BCR | C8-C9-C10 | 2.61 | 122.95 | 118.94 |
| 21 | A | 1125 | CLA | CHA-C4D-ND | 2.61 | 137.97 | 132.50 |
| 21 | 1 | 1107 | CLA | CAA-C2A-C3A | -2.61 | 105.62 | 112.78 |
| 24 | A | 4001 | BCR | C40-C30-C25 | -2.61 | 106.06 | 110.30 |
| 21 | A | 1127 | CLA | CMB-C2B-C3B | 2.61 | 129.56 | 124.68 |
| 21 | k | 1402 | CLA | CMA-C3A-C4A | 2.61 | 118.79 | 111.77 |
| 21 | A | 1013 | CLA | CMB-C2B-C1B | -2.61 | 124.45 | 128.46 |
| 21 | 2 | 1237 | CLA | C1D-ND-C4D | -2.61 | 104.48 | 106.33 |
| 21 | 2 | 1211 | CLA | C1D-ND-C4D | -2.61 | 104.48 | 106.33 |
| 21 | 2 | 1022 | CLA | CMA-C3A-C4A | 2.61 | 118.78 | 111.77 |
| 22 | b | 2002 | PQN | C2M-C2-C3 | -2.61 | 120.15 | 124.40 |
| 21 | a | 1109 | CLA | CHA-C4D-ND | 2.61 | 137.95 | 132.50 |
| 21 | B | 1204 | CLA | O2A-CGA-CBA | 2.61 | 120.08 | 111.91 |
| 25 | l | 5001 | LHG | O8-C23-C24 | 2.61 | 120.08 | 111.91 |
| 21 | B | 1023 | CLA | O2D-CGD-CBD | 2.60 | 115.90 | 111.27 |
| 21 | a | 1102 | CLA | CMA-C3A-C4A | 2.60 | 118.77 | 111.77 |
| 21 | b | 1237 | CLA | C1-O2A-CGA | 2.60 | 123.28 | 116.44 |
| 21 | A | 1801 | CLA | O2A-CGA-CBA | 2.60 | 120.08 | 111.91 |
| 21 | B | 1217 | CLA | C1-O2A-CGA | 2.60 | 123.28 | 116.44 |
| 21 | b | 1023 | CLA | O2D-CGD-CBD | 2.60 | 115.89 | 111.27 |
| 21 | b | 1219 | CLA | O2A-CGA-CBA | 2.60 | 120.07 | 111.91 |
| 21 | A | 1138 | CLA | CMA-C3A-C4A | 2.60 | 118.77 | 111.77 |
| 21 | 1 | 1102 | CLA | CMB-C2B-C1B | -2.60 | 124.47 | 128.46 |
| 21 | b | 1220 | CLA | CHA-C4D-ND | 2.60 | 137.94 | 132.50 |
| 21 | 2 | 1219 | CLA | CHA-C1A-NA | -2.60 | 120.44 | 126.40 |
| 21 | B | 1021 | CLA | CHA-C4D-ND | 2.60 | 137.94 | 132.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | b | 1223 | CLA | C1D-ND-C4D | -2.60 | 104.49 | 106.33 |
| 24 | J | 4013 | BCR | C40-C30-C25 | -2.60 | 106.09 | 110.30 |
| 24 | b | 4004 | BCR | C30-C25-C26 | -2.60 | 118.96 | 122.61 |
| 21 | a | 1118 | CLA | CMA-C3A-C4A | 2.60 | 118.75 | 111.77 |
| 21 | 2 | 1224 | CLA | O2A-CGA-CBA | 2.60 | 120.06 | 111.91 |
| 24 | a | 4008 | BCR | C40-C30-C25 | -2.60 | 106.09 | 110.30 |
| 21 | B | 1202 | CLA | C1-O2A-CGA | 2.60 | 123.25 | 116.44 |
| 21 | a | 1114 | CLA | C1-O2A-CGA | 2.59 | 123.25 | 116.44 |
| 21 | B | 1210 | CLA | CHA-C4D-ND | 2.59 | 137.93 | 132.50 |
| 30 | b | 4006 | ECH | C20-C19-C18 | 2.59 | 133.71 | 126.42 |
| 24 | B | 4017 | BCR | C36-C18-C19 | -2.59 | 113.99 | 118.08 |
| 21 | B | 1206 | CLA | C1-O2A-CGA | 2.59 | 123.25 | 116.44 |
| 21 | a | 1122 | CLA | CMB-C2B-C1B | -2.59 | 124.48 | 128.46 |
| 21 | 1 | 1125 | CLA | C1-O2A-CGA | 2.59 | 123.25 | 116.44 |
| 21 | 2 | 1227 | CLA | CHA-C4D-ND | 2.59 | 137.92 | 132.50 |
| 21 | 2 | 1228 | CLA | CHA-C4D-ND | 2.59 | 137.92 | 132.50 |
| 24 | 2 | 4010 | BCR | C8-C9-C10 | 2.59 | 122.91 | 118.94 |
| 21 | L | 1502 | CLA | CMA-C3A-C4A | 2.59 | 118.73 | 111.77 |
| 21 | b | 1229 | CLA | CMA-C3A-C4A | 2.59 | 118.73 | 111.77 |
| 25 | l | 5004 | LHG | O8-C23-C24 | 2.59 | 120.03 | 111.91 |
| 21 | B | 1227 | CLA | CMA-C3A-C4A | 2.59 | 118.73 | 111.77 |
| 24 | 2 | 4018 | BCR | C23-C24-C25 | 2.59 | 134.47 | 127.20 |
| 21 | 2 | 1230 | CLA | CMA-C3A-C4A | 2.59 | 118.72 | 111.77 |
| 24 | a | 4002 | BCR | C8-C9-C10 | 2.59 | 122.91 | 118.94 |
| 21 | 1 | 1113 | CLA | C1D-ND-C4D | -2.59 | 104.50 | 106.33 |
| 21 | 1 | 1129 | CLA | O2D-CGD-O1D | -2.59 | 118.78 | 123.84 |
| 21 | B | 1204 | CLA | C1-O2A-CGA | 2.59 | 123.23 | 116.44 |
| 24 | 1 | 4007 | BCR | C39-C30-C25 | -2.59 | 106.11 | 110.30 |
| 21 | 2 | 1222 | CLA | CMA-C3A-C4A | 2.58 | 118.72 | 111.77 |
| 30 | m | 4021 | ECH | C28-C27-C26 | -2.58 | 116.27 | 118.65 |
| 21 | a | 1104 | CLA | CHA-C4D-ND | 2.58 | 137.90 | 132.50 |
| 21 | A | 1115 | CLA | CMA-C3A-C4A | 2.58 | 118.72 | 111.77 |
| 21 | b | 1203 | CLA | O2D-CGD-O1D | -2.58 | 118.79 | 123.84 |
| 21 | f | 1301 | CLA | CMA-C3A-C4A | 2.58 | 118.71 | 111.77 |
| 21 | 1 | 1140 | CLA | C1D-ND-C4D | -2.58 | 104.50 | 106.33 |
| 21 | b | 1213 | CLA | CMD-C2D-C3D | -2.58 | 121.68 | 127.61 |
| 21 | 0 | 1501 | CLA | CMB-C2B-C1B | -2.58 | 124.50 | 128.46 |
| 25 | L | 5005 | LHG | O8-C23-C24 | 2.58 | 120.00 | 111.91 |
| 24 | b | 4004 | BCR | C34-C9-C10 | -2.58 | 119.31 | 122.92 |
| 21 | 2 | 1223 | CLA | O2A-CGA-CBA | 2.58 | 120.00 | 111.91 |
| 34 | 7 | 4015 | ZEX | C31-C30-C29 | -2.58 | 123.63 | 127.31 |
| 21 | 2 | 1202 | CLA | O2A-CGA-CBA | 2.58 | 120.00 | 111.91 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 24 | A | 4007 | BCR | C34-C9-C10 | -2.58 | 119.31 | 122.92 |
| 24 | 1 | 4019 | BCR | C40-C30-C25 | -2.58 | 106.12 | 110.30 |
| 24 | A | 4002 | BCR | C35-C13-C12 | 2.58 | 122.14 | 118.08 |
| 36 | I | 4020 | EQ3 | C38-C26-C27 | 2.58 | 119.31 | 115.48 |
| 36 | I | 4020 | EQ3 | C29-C30-C25 | 2.57 | 114.44 | 110.48 |
| 21 | l | 1503 | CLA | CMB-C2B-C3B | 2.57 | 129.49 | 124.68 |
| 21 | b | 1023 | CLA | CHA-C4D-ND | 2.57 | 137.88 | 132.50 |
| 21 | a | 1112 | CLA | O2A-CGA-CBA | 2.57 | 119.98 | 111.91 |
| 25 | l | 5003 | LHG | O8-C23-C24 | 2.57 | 119.98 | 111.91 |
| 21 | A | 1012 | CLA | CHA-C1A-NA | -2.57 | 120.51 | 126.40 |
| 21 | 6 | 1301 | CLA | CMA-C3A-C4A | 2.57 | 118.69 | 111.77 |
| 21 | B | 1226 | CLA | CHA-C4D-ND | 2.57 | 137.88 | 132.50 |
| 21 | 1 | 1011 | CLA | O2A-CGA-CBA | 2.57 | 119.98 | 111.91 |
| 21 | B | 1213 | CLA | CMB-C2B-C3B | 2.57 | 129.49 | 124.68 |
| 21 | B | 1213 | CLA | CHA-C4D-ND | 2.57 | 137.88 | 132.50 |
| 21 | a | 1012 | CLA | CHA-C4D-ND | 2.57 | 137.87 | 132.50 |
| 21 | 1 | 1102 | CLA | CHA-C4D-ND | 2.57 | 137.87 | 132.50 |
| 24 | A | 4019 | BCR | C15-C14-C13 | -2.57 | 123.65 | 127.31 |
| 21 | K | 1401 | CLA | CAA-CBA-CGA | -2.57 | 105.75 | 113.25 |
| 21 | A | 1121 | CLA | CMD-C2D-C3D | -2.57 | 121.71 | 127.61 |
| 21 | 2 | 1230 | CLA | CMB-C2B-C1B | -2.57 | 124.52 | 128.46 |
| 21 | b | 1205 | CLA | CHA-C4D-ND | 2.56 | 137.86 | 132.50 |
| 21 | B | 1221 | CLA | CMA-C3A-C4A | 2.56 | 118.67 | 111.77 |
| 21 | b | 1236 | CLA | O2A-CGA-CBA | 2.56 | 119.94 | 111.91 |
| 21 | 1 | 1121 | CLA | CHA-C4D-ND | 2.56 | 137.85 | 132.50 |
| 21 | B | 1214 | CLA | O2A-CGA-CBA | 2.56 | 119.94 | 111.91 |
| 24 | a | 4012 | BCR | C34-C9-C10 | -2.56 | 119.34 | 122.92 |
| 21 | B | 1240 | CLA | CHA-C4D-ND | 2.56 | 137.85 | 132.50 |
| 34 | J | 4015 | ZEX | C40-C33-C34 | -2.56 | 119.34 | 122.92 |
| 21 | A | 1013 | CLA | CHA-C4D-ND | 2.56 | 137.85 | 132.50 |
| 21 | 2 | 1212 | CLA | CHA-C4D-ND | 2.56 | 137.85 | 132.50 |
| 21 | 1 | 1111 | CLA | CHA-C4D-ND | 2.56 | 137.85 | 132.50 |
| 21 | b | 1225 | CLA | CMA-C3A-C4A | 2.56 | 118.65 | 111.77 |
| 25 | A | 5007 | LHG | O7-C7-O9 | -2.56 | 117.53 | 123.70 |
| 24 | B | 4017 | BCR | C40-C30-C25 | -2.56 | 106.15 | 110.30 |
| 21 | B | 1221 | CLA | CHA-C4D-ND | 2.56 | 137.84 | 132.50 |
| 24 | a | 4003 | BCR | C39-C30-C25 | -2.55 | 106.16 | 110.30 |
| 21 | B | 1216 | CLA | CHA-C4D-ND | 2.55 | 137.84 | 132.50 |
| 21 | B | 1201 | CLA | CMB-C2B-C1B | -2.55 | 124.54 | 128.46 |
| 21 | 2 | 1215 | CLA | C1D-ND-C4D | -2.55 | 104.52 | 106.33 |
| 21 | B | 1223 | CLA | CHA-C4D-ND | 2.55 | 137.84 | 132.50 |
| 24 | 6 | 4016 | BCR | C30-C25-C26 | -2.55 | 119.02 | 122.61 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 25 | 1 | 5005 | LHG | O8-C23-C24 | 2.55 | 119.92 | 111.91 |
| 21 | b | 1204 | CLA | C2D-C1D-ND | 2.55 | 111.98 | 110.10 |
| 30 | i | 4020 | ECH | C28-C27-C26 | -2.55 | 116.30 | 118.65 |
| 21 | b | 1226 | CLA | CMA-C3A-C4A | 2.55 | 118.63 | 111.77 |
| 21 | 2 | 1222 | CLA | O2A-CGA-CBA | 2.55 | 119.91 | 111.91 |
| 21 | B | 1238 | CLA | C1-O2A-CGA | 2.55 | 123.13 | 116.44 |
| 21 | B | 1210 | CLA | CAC-C3C-C4C | 2.55 | 128.12 | 124.81 |
| 21 | 2 | 1221 | CLA | CMB-C2B-C1B | -2.55 | 124.55 | 128.46 |
| 21 | b | 1223 | CLA | CHA-C4D-ND | 2.55 | 137.83 | 132.50 |
| 30 | 2 | 4006 | ECH | C8-C7-C6 | -2.55 | 120.05 | 127.20 |
| 21 | 1 | 1101 | CLA | O2A-CGA-CBA | 2.55 | 119.90 | 111.91 |
| 21 | A | 1104 | CLA | CHA-C4D-ND | 2.55 | 137.82 | 132.50 |
| 24 | 9 | 4021 | BCR | C8-C9-C10 | 2.55 | 122.85 | 118.94 |
| 21 | b | 1203 | CLA | CHA-C4D-ND | 2.55 | 137.82 | 132.50 |
| 21 | a | 1137 | CLA | O2A-CGA-CBA | 2.54 | 119.89 | 111.91 |
| 21 | B | 1205 | CLA | CHA-C4D-ND | 2.54 | 137.82 | 132.50 |
| 21 | 2 | 1230 | CLA | CHA-C4D-ND | 2.54 | 137.82 | 132.50 |
| 21 | 2 | 1214 | CLA | CMA-C3A-C4A | 2.54 | 118.61 | 111.77 |
| 21 | A | 1134 | CLA | CMA-C3A-C4A | 2.54 | 118.60 | 111.77 |
| 21 | a | 1136 | CLA | CHA-C4D-ND | 2.54 | 137.81 | 132.50 |
| 21 | B | 1239 | CLA | CMA-C3A-C4A | 2.54 | 118.60 | 111.77 |
| 24 | 2 | 4018 | BCR | C30-C25-C24 | 2.54 | 122.96 | 115.78 |
| 25 | A | 5007 | LHG | O8-C23-C24 | 2.54 | 119.88 | 111.91 |
| 24 | L | 4022 | BCR | C39-C30-C25 | -2.54 | 106.18 | 110.30 |
| 21 | B | 1220 | CLA | C1D-ND-C4D | -2.54 | 104.53 | 106.33 |
| 21 | B | 1203 | CLA | CHA-C4D-ND | 2.54 | 137.81 | 132.50 |
| 21 | b | 1236 | CLA | CMA-C3A-C4A | 2.54 | 118.59 | 111.77 |
| 25 | 1 | 5002 | LHG | O8-C23-C24 | 2.54 | 119.87 | 111.91 |
| 24 | A | 4019 | BCR | C30-C25-C26 | -2.53 | 119.04 | 122.61 |
| 21 | A | 1131 | CLA | CHA-C4D-ND | 2.53 | 137.80 | 132.50 |
| 21 | 1 | 1128 | CLA | O2A-CGA-CBA | 2.53 | 119.86 | 111.91 |
| 21 | B | 1208 | CLA | C1D-ND-C4D | -2.53 | 104.53 | 106.33 |
| 21 | 2 | 1207 | CLA | C1D-ND-C4D | -2.53 | 104.53 | 106.33 |
| 24 | 1 | 4012 | BCR | C40-C30-C25 | -2.53 | 106.19 | 110.30 |
| 21 | 2 | 1207 | CLA | CMA-C3A-C4A | 2.53 | 118.58 | 111.77 |
| 21 | a | 1125 | CLA | CHA-C4D-ND | 2.53 | 137.80 | 132.50 |
| 21 | 2 | 1220 | CLA | CHA-C4D-ND | 2.53 | 137.80 | 132.50 |
| 21 | A | 1138 | CLA | C1-O2A-CGA | 2.53 | 123.09 | 116.44 |
| 24 | A | 4003 | BCR | C39-C30-C25 | -2.53 | 106.19 | 110.30 |
| 24 | 1 | 4001 | BCR | C40-C30-C25 | -2.53 | 106.19 | 110.30 |
| 21 | 6 | 1302 | CLA | CHA-C1A-NA | -2.53 | 120.60 | 126.40 |
| 21 | b | 1238 | CLA | C1-O2A-CGA | 2.53 | 123.08 | 116.44 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | 1 | 1128 | CLA | C1-O2A-CGA | 2.53 | 123.08 | 116.44 |
| 21 | a | 1105 | CLA | O2A-CGA-CBA | 2.53 | 119.85 | 111.91 |
| 36 | I | 4020 | EQ3 | C7-C6-C5 | -2.53 | 115.33 | 121.46 |
| 21 | a | 1138 | CLA | C1D-ND-C4D | -2.53 | 104.54 | 106.33 |
| 21 | b | 1214 | CLA | O2A-CGA-CBA | 2.53 | 119.84 | 111.91 |
| 24 | B | 4014 | BCR | C40-C30-C25 | -2.53 | 106.20 | 110.30 |
| 21 | 1 | 1801 | CLA | C3D-C2D-C1D | -2.53 | 102.38 | 105.83 |
| 21 | A | 1118 | CLA | CHA-C4D-ND | 2.53 | 137.79 | 132.50 |
| 24 | b | 4014 | BCR | C40-C30-C25 | -2.53 | 106.20 | 110.30 |
| 21 | a | 1136 | CLA | C1-O2A-CGA | 2.53 | 123.07 | 116.44 |
| 21 | b | 1201 | CLA | C1D-ND-C4D | -2.53 | 104.54 | 106.33 |
| 21 | A | 1127 | CLA | CMA-C3A-C4A | 2.52 | 118.56 | 111.77 |
| 21 | B | 1209 | CLA | CHA-C4D-ND | 2.52 | 137.78 | 132.50 |
| 21 | 1 | 1110 | CLA | CHA-C4D-ND | 2.52 | 137.78 | 132.50 |
| 21 | b | 1216 | CLA | C1D-ND-C4D | -2.52 | 104.54 | 106.33 |
| 30 | 2 | 4006 | ECH | C11-C10-C9 | -2.52 | 123.71 | 127.31 |
| 21 | A | 1138 | CLA | CMB-C2B-C1B | -2.52 | 124.58 | 128.46 |
| 21 | B | 1208 | CLA | CHA-C4D-ND | 2.52 | 137.78 | 132.50 |
| 21 | B | 1231 | CLA | CHA-C4D-ND | 2.52 | 137.78 | 132.50 |
| 21 | 2 | 1211 | CLA | CHA-C4D-ND | 2.52 | 137.78 | 132.50 |
| 24 | 2 | 4010 | BCR | C39-C30-C25 | -2.52 | 106.21 | 110.30 |
| 21 | b | 1206 | CLA | C1-O2A-CGA | 2.52 | 123.06 | 116.44 |
| 21 | 1 | 1139 | CLA | CHA-C4D-ND | 2.52 | 137.77 | 132.50 |
| 21 | A | 1118 | CLA | C1D-ND-C4D | -2.52 | 104.54 | 106.33 |
| 21 | 1 | 1111 | CLA | CMA-C3A-C4A | 2.52 | 118.55 | 111.77 |
| 21 | a | 1104 | CLA | CMA-C3A-C4A | 2.52 | 118.55 | 111.77 |
| 30 | i | 4020 | ECH | C28-C29-C30 | -2.52 | 109.14 | 113.18 |
| 21 | 2 | 1022 | CLA | C1D-ND-C4D | -2.52 | 104.55 | 106.33 |
| 21 | a | 1139 | CLA | CHA-C4D-ND | 2.52 | 137.77 | 132.50 |
| 21 | b | 1216 | CLA | CHA-C4D-ND | 2.52 | 137.77 | 132.50 |
| 30 | i | 4020 | ECH | C29-C30-C25 | -2.52 | 106.60 | 110.48 |
| 21 | 1 | 1801 | CLA | CHA-C4D-ND | 2.52 | 137.77 | 132.50 |
| 21 | B | 1023 | CLA | C3D-C2D-C1D | -2.52 | 102.39 | 105.83 |
| 21 | A | 1112 | CLA | CMA-C3A-C4A | 2.52 | 118.54 | 111.77 |
| 21 | l | 1503 | CLA | CMA-C3A-C4A | 2.52 | 118.54 | 111.77 |
| 21 | B | 1220 | CLA | CHA-C4D-ND | 2.52 | 137.76 | 132.50 |
| 21 | B | 1211 | CLA | CMB-C2B-C1B | -2.52 | 124.59 | 128.46 |
| 21 | a | 1116 | CLA | O2A-CGA-CBA | 2.52 | 119.81 | 111.91 |
| 21 | b | 1226 | CLA | CHA-C4D-ND | 2.52 | 137.76 | 132.50 |
| 21 | A | 1102 | CLA | CHA-C4D-ND | 2.52 | 137.76 | 132.50 |
| 21 | b | 1232 | CLA | CHA-C4D-ND | 2.52 | 137.76 | 132.50 |
| 21 | 6 | 1302 | CLA | CHA-C4D-ND | 2.52 | 137.76 | 132.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | A | 1125 | CLA | C3D-C2D-C1D | -2.52 | 102.40 | 105.83 |
| 24 | a | 4001 | BCR | C40-C30-C25 | -2.52 | 106.22 | 110.30 |
| 37 | L | 5004 | DGD | O1G-C1A-C2A | 2.52 | 119.80 | 111.91 |
| 21 | a | 1129 | CLA | C1-O2A-CGA | 2.52 | 123.04 | 116.44 |
| 21 | 2 | 1236 | CLA | O2D-CGD-CBD | 2.51 | 115.74 | 111.27 |
| 21 | A | 1104 | CLA | C1D-ND-C4D | -2.51 | 104.55 | 106.33 |
| 21 | 1 | 1133 | CLA | CHA-C4D-ND | 2.51 | 137.76 | 132.50 |
| 21 | 2 | 1217 | CLA | CHA-C4D-ND | 2.51 | 137.76 | 132.50 |
| 21 | A | 1134 | CLA | O2A-CGA-CBA | 2.51 | 119.79 | 111.91 |
| 21 | 2 | 1210 | CLA | CMA-C3A-C4A | 2.51 | 118.53 | 111.77 |
| 25 | A | 5003 | LHG | C5-O7-C7 | -2.51 | 111.61 | 117.79 |
| 21 | A | 1120 | CLA | CMB-C2B-C3B | 2.51 | 129.38 | 124.68 |
| 24 | A | 4002 | BCR | C38-C26-C25 | -2.51 | 121.71 | 124.53 |
| 21 | 1 | 1125 | CLA | CHA-C4D-ND | 2.51 | 137.75 | 132.50 |
| 21 | B | 1210 | CLA | C1D-ND-C4D | -2.51 | 104.55 | 106.33 |
| 21 | 2 | 1209 | CLA | C1D-ND-C4D | -2.51 | 104.55 | 106.33 |
| 21 | a | 1110 | CLA | CHA-C4D-ND | 2.51 | 137.75 | 132.50 |
| 21 | 6 | 1302 | CLA | C2A-C1A-CHA | 2.51 | 128.25 | 123.86 |
| 21 | 1 | 1103 | CLA | C1D-ND-C4D | -2.51 | 104.55 | 106.33 |
| 21 | 1 | 1127 | CLA | CHA-C4D-ND | 2.51 | 137.75 | 132.50 |
| 21 | A | 1116 | CLA | CMA-C3A-C4A | 2.51 | 118.51 | 111.77 |
| 24 | a | 4008 | BCR | C40-C30-C29 | 2.51 | 118.94 | 108.91 |
| 21 | A | 1013 | CLA | C1-O2A-CGA | 2.51 | 123.02 | 116.44 |
| 21 | a | 1139 | CLA | C1-O2A-CGA | 2.51 | 123.02 | 116.44 |
| 21 | a | 1104 | CLA | C3D-C2D-C1D | -2.51 | 102.41 | 105.83 |
| 21 | b | 1218 | CLA | O2A-CGA-CBA | 2.51 | 119.77 | 111.91 |
| 24 | B | 4010 | BCR | C39-C30-C25 | -2.51 | 106.23 | 110.30 |
| 21 | a | 1108 | CLA | CHA-C4D-ND | 2.50 | 137.74 | 132.50 |
| 21 | B | 1225 | CLA | O2A-CGA-CBA | 2.50 | 119.76 | 111.91 |
| 21 | a | 1124 | CLA | C3D-C2D-C1D | -2.50 | 102.42 | 105.83 |
| 21 | a | 1118 | CLA | CMB-C2B-C1B | -2.50 | 124.62 | 128.46 |
| 21 | 1 | 1140 | CLA | CHA-C4D-ND | 2.50 | 137.73 | 132.50 |
| 21 | b | 1221 | CLA | CHA-C4D-ND | 2.50 | 137.73 | 132.50 |
| 21 | 1 | 1104 | CLA | CMB-C2B-C1B | -2.50 | 124.62 | 128.46 |
| 21 | a | 1103 | CLA | CHA-C4D-ND | 2.50 | 137.73 | 132.50 |
| 21 | a | 1101 | CLA | CHA-C4D-ND | 2.50 | 137.73 | 132.50 |
| 21 | 2 | 1223 | CLA | CHA-C4D-ND | 2.50 | 137.73 | 132.50 |
| 21 | b | 1206 | CLA | CMA-C3A-C4A | 2.50 | 118.49 | 111.77 |
| 21 | a | 1127 | CLA | CHA-C4D-ND | 2.50 | 137.73 | 132.50 |
| 24 | A | 4001 | BCR | C8-C9-C10 | 2.50 | 122.77 | 118.94 |
| 28 | B | 4011 | 45D | C30-C32-C34 | -2.50 | 115.42 | 123.22 |
| 21 | a | 1801 | CLA | CHA-C4D-ND | 2.50 | 137.72 | 132.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | a | 1123 | CLA | C1D-ND-C4D | -2.50 | 104.56 | 106.33 |
| 24 | 1 | 4012 | BCR | C40-C30-C29 | 2.50 | 118.89 | 108.91 |
| 30 | i | 4020 | ECH | C24-C23-C22 | -2.50 | 122.46 | 126.23 |
| 21 | B | 1223 | CLA | O2A-CGA-CBA | 2.50 | 119.74 | 111.91 |
| 21 | b | 1225 | CLA | CMB-C2B-C1B | -2.50 | 124.63 | 128.46 |
| 21 | 2 | 1227 | CLA | CMA-C3A-C4A | 2.49 | 118.48 | 111.77 |
| 21 | 2 | 1227 | CLA | C1D-ND-C4D | -2.49 | 104.56 | 106.33 |
| 21 | 1 | 1501 | CLA | CMA-C3A-C4A | 2.49 | 118.48 | 111.77 |
| 21 | b | 1207 | CLA | O2A-CGA-CBA | 2.49 | 119.73 | 111.91 |
| 25 | M | 5001 | LHG | O8-C23-C24 | 2.49 | 119.73 | 111.91 |
| 24 | 2 | 4010 | BCR | C38-C26-C25 | -2.49 | 121.73 | 124.53 |
| 21 | B | 1211 | CLA | CHA-C4D-ND | 2.49 | 137.71 | 132.50 |
| 21 | a | 1123 | CLA | CHA-C4D-ND | 2.49 | 137.71 | 132.50 |
| 21 | 2 | 1023 | CLA | CHA-C4D-ND | 2.49 | 137.71 | 132.50 |
| 21 | A | 1128 | CLA | C1-O2A-CGA | 2.49 | 122.98 | 116.44 |
| 21 | A | 1119 | CLA | CHA-C4D-ND | 2.49 | 137.71 | 132.50 |
| 21 | B | 1202 | CLA | C1D-ND-C4D | -2.49 | 104.57 | 106.33 |
| 21 | b | 1223 | CLA | C3D-C2D-C1D | -2.49 | 102.43 | 105.83 |
| 21 | 1 | 1111 | CLA | CAC-C3C-C4C | 2.49 | 128.04 | 124.81 |
| 21 | B | 1237 | CLA | CMA-C3A-C4A | 2.49 | 118.46 | 111.77 |
| 21 | b | 1213 | CLA | CHA-C4D-ND | 2.49 | 137.71 | 132.50 |
| 21 | 2 | 1232 | CLA | CHA-C4D-ND | 2.49 | 137.71 | 132.50 |
| 25 | A | 5005 | LHG | O8-C23-C24 | 2.49 | 119.72 | 111.91 |
| 21 | 7 | 1303 | CLA | CHA-C4D-ND | 2.49 | 137.70 | 132.50 |
| 25 | M | 5001 | LHG | O7-C7-O9 | -2.49 | 117.69 | 123.70 |
| 21 | a | 1134 | CLA | CMB-C2B-C1B | -2.49 | 124.64 | 128.46 |
| 28 | h | 4020 | 45D | C21-C15-C07 | -2.49 | 120.11 | 124.11 |
| 21 | 1 | 1012 | CLA | CHA-C1A-NA | -2.49 | 120.70 | 126.40 |
| 21 | a | 1106 | CLA | CMA-C3A-C4A | 2.49 | 118.46 | 111.77 |
| 21 | 1 | 1112 | CLA | CHA-C4D-ND | 2.49 | 137.70 | 132.50 |
| 25 | B | 5004 | LHG | C5-O7-C7 | -2.49 | 111.67 | 117.79 |
| 21 | b | 1208 | CLA | C1-O2A-CGA | 2.49 | 122.97 | 116.44 |
| 21 | b | 1228 | CLA | CHA-C4D-ND | 2.49 | 137.70 | 132.50 |
| 21 | A | 1101 | CLA | O2A-CGA-CBA | 2.48 | 119.71 | 111.91 |
| 21 | 1 | 1126 | CLA | O2A-CGA-CBA | 2.48 | 119.71 | 111.91 |
| 21 | A | 1113 | CLA | CHA-C4D-ND | 2.48 | 137.70 | 132.50 |
| 21 | F | 1301 | CLA | CMA-C3A-C4A | 2.48 | 118.45 | 111.77 |
| 21 | 1 | 1128 | CLA | CHA-C4D-ND | 2.48 | 137.69 | 132.50 |
| 24 | A | 4012 | BCR | C40-C30-C29 | 2.48 | 118.84 | 108.91 |
| 21 | 2 | 1213 | CLA | O2A-CGA-CBA | 2.48 | 119.70 | 111.91 |
| 21 | A | 1130 | CLA | CHA-C4D-ND | 2.48 | 137.69 | 132.50 |
| 21 | A | 1121 | CLA | CHA-C4D-ND | 2.48 | 137.69 | 132.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | B | 1204 | CLA | CMA-C3A-C4A | 2.48 | 118.44 | 111.77 |
| 21 | L | 1503 | CLA | CMA-C3A-C4A | 2.48 | 118.44 | 111.77 |
| 21 | K | 1402 | CLA | CHA-C4D-ND | 2.48 | 137.69 | 132.50 |
| 21 | A | 1127 | CLA | CMB-C2B-C1B | -2.48 | 124.65 | 128.46 |
| 21 | b | 1217 | CLA | CHA-C4D-ND | 2.48 | 137.69 | 132.50 |
| 21 | B | 1213 | CLA | C1D-ND-C4D | -2.48 | 104.57 | 106.33 |
| 21 | 2 | 1214 | CLA | CHA-C4D-ND | 2.48 | 137.69 | 132.50 |
| 21 | A | 1801 | CLA | CHA-C4D-ND | 2.48 | 137.69 | 132.50 |
| 21 | J | 1302 | CLA | CHA-C4D-ND | 2.48 | 137.69 | 132.50 |
| 21 | B | 1214 | CLA | C1D-ND-C4D | -2.48 | 104.57 | 106.33 |
| 21 | 1 | 1130 | CLA | CHA-C4D-ND | 2.48 | 137.68 | 132.50 |
| 24 | h | 4018 | BCR | C40-C30-C29 | 2.48 | 118.82 | 108.91 |
| 21 | a | 1136 | CLA | C3D-C2D-C1D | -2.48 | 102.45 | 105.83 |
| 21 | a | 1140 | CLA | CHA-C4D-ND | 2.48 | 137.68 | 132.50 |
| 25 | a | 5003 | LHG | C5-O7-C7 | -2.48 | 111.69 | 117.79 |
| 21 | 2 | 1225 | CLA | CHA-C4D-ND | 2.48 | 137.68 | 132.50 |
| 34 | j | 4015 | ZEX | C19-C9-C10 | -2.48 | 119.45 | 122.92 |
| 21 | A | 1011 | CLA | O2D-CGD-O1D | -2.48 | 119.00 | 123.84 |
| 24 | 0 | 4022 | BCR | C38-C26-C25 | -2.48 | 121.75 | 124.53 |
| 21 | A | 1109 | CLA | CHA-C4D-ND | 2.48 | 137.68 | 132.50 |
| 21 | A | 1120 | CLA | CHA-C4D-ND | 2.48 | 137.68 | 132.50 |
| 21 | 1 | 1119 | CLA | CHA-C4D-ND | 2.48 | 137.68 | 132.50 |
| 21 | a | 1133 | CLA | CMA-C3A-C4A | 2.48 | 118.43 | 111.77 |
| 21 | a | 1013 | CLA | CHA-C4D-ND | 2.48 | 137.68 | 132.50 |
| 21 | 1 | 1104 | CLA | CHA-C4D-ND | 2.48 | 137.68 | 132.50 |
| 21 | a | 1140 | CLA | C1D-ND-C4D | -2.47 | 104.58 | 106.33 |
| 21 | F | 1302 | CLA | CHA-C4D-ND | 2.47 | 137.67 | 132.50 |
| 24 | b | 4018 | BCR | C40-C30-C29 | 2.47 | 118.80 | 108.91 |
| 21 | A | 1123 | CLA | CHA-C4D-ND | 2.47 | 137.67 | 132.50 |
| 21 | A | 1127 | CLA | CHA-C4D-ND | 2.47 | 137.67 | 132.50 |
| 21 | 2 | 1228 | CLA | C1D-ND-C4D | -2.47 | 104.58 | 106.33 |
| 21 | 2 | 1208 | CLA | CHA-C4D-ND | 2.47 | 137.67 | 132.50 |
| 24 | a | 4002 | BCR | C38-C26-C25 | -2.47 | 121.75 | 124.53 |
| 24 | L | 4019 | BCR | C34-C9-C10 | -2.47 | 119.46 | 122.92 |
| 21 | 1 | 1110 | CLA | C1D-ND-C4D | -2.47 | 104.58 | 106.33 |
| 21 | b | 1240 | CLA | CHA-C4D-ND | 2.47 | 137.67 | 132.50 |
| 26 | a | 5002 | LMG | O8-C28-C29 | 2.47 | 119.66 | 111.91 |
| 21 | A | 1133 | CLA | CHA-C4D-ND | 2.47 | 137.66 | 132.50 |
| 21 | a | 1139 | CLA | C1D-ND-C4D | -2.47 | 104.58 | 106.33 |
| 21 | B | 1202 | CLA | CHA-C4D-ND | 2.47 | 137.66 | 132.50 |
| 24 | i | 4018 | BCR | C37-C22-C23 | 2.47 | 121.97 | 118.08 |
| 21 | b | 1240 | CLA | O2A-CGA-CBA | 2.47 | 119.65 | 111.91 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | 2 | 1237 | CLA | O2A-CGA-CBA | 2.47 | 119.65 | 111.91 |
| 26 | 2 | 5002 | LMG | O8-C28-C29 | 2.47 | 119.65 | 111.91 |
| 21 | 0 | 1503 | CLA | O2A-CGA-CBA | 2.47 | 119.65 | 111.91 |
| 24 | a | 4001 | BCR | C40-C30-C29 | 2.47 | 118.78 | 108.91 |
| 21 | b | 1208 | CLA | CMA-C3A-C4A | 2.47 | 118.41 | 111.77 |
| 21 | a | 1012 | CLA | CMA-C3A-C4A | 2.47 | 118.41 | 111.77 |
| 24 | 1 | 4007 | BCR | C40-C30-C29 | 2.47 | 118.77 | 108.91 |
| 21 | 1 | 1127 | CLA | O2A-CGA-CBA | 2.47 | 119.65 | 111.91 |
| 21 | b | 1231 | CLA | CHA-C4D-ND | 2.47 | 137.66 | 132.50 |
| 21 | B | 1023 | CLA | CHA-C4D-ND | 2.47 | 137.66 | 132.50 |
| 21 | 2 | 1216 | CLA | CHA-C4D-ND | 2.47 | 137.66 | 132.50 |
| 21 | J | 1303 | CLA | CHA-C4D-ND | 2.47 | 137.66 | 132.50 |
| 21 | 1 | 1123 | CLA | CHA-C4D-ND | 2.47 | 137.66 | 132.50 |
| 21 | 1 | 1124 | CLA | CHA-C4D-ND | 2.46 | 137.66 | 132.50 |
| 21 | 8 | 1402 | CLA | CHA-C4D-ND | 2.46 | 137.65 | 132.50 |
| 24 | j | 4013 | BCR | C40-C30-C29 | 2.46 | 118.76 | 108.91 |
| 21 | A | 1101 | CLA | C1-O2A-CGA | 2.46 | 122.91 | 116.44 |
| 21 | a | 1132 | CLA | CHA-C4D-ND | 2.46 | 137.65 | 132.50 |
| 24 | L | 4022 | BCR | C35-C13-C12 | 2.46 | 121.96 | 118.08 |
| 21 | 1 | 1131 | CLA | CHA-C4D-ND | 2.46 | 137.65 | 132.50 |
| 24 | A | 4003 | BCR | C40-C30-C29 | 2.46 | 118.75 | 108.91 |
| 24 | i | 4018 | BCR | C40-C30-C29 | 2.46 | 118.75 | 108.91 |
| 21 | b | 1212 | CLA | CHA-C1A-NA | -2.46 | 120.76 | 126.40 |
| 24 | b | 4004 | BCR | C40-C30-C29 | 2.46 | 118.75 | 108.91 |
| 21 | a | 1118 | CLA | CHA-C4D-ND | 2.46 | 137.65 | 132.50 |
| 24 | I | 4018 | BCR | C40-C30-C29 | 2.46 | 118.75 | 108.91 |
| 24 | 2 | 4014 | BCR | C40-C30-C29 | 2.46 | 118.75 | 108.91 |
| 24 | 2 | 4017 | BCR | C40-C30-C29 | 2.46 | 118.75 | 108.91 |
| 21 | 2 | 1228 | CLA | C3D-C2D-C1D | -2.46 | 102.47 | 105.83 |
| 24 | B | 4014 | BCR | C34-C9-C10 | -2.46 | 119.48 | 122.92 |
| 21 | 1 | 1114 | CLA | CHA-C4D-ND | 2.46 | 137.64 | 132.50 |
| 21 | 1 | 1118 | CLA | C1D-ND-C4D | -2.46 | 104.59 | 106.33 |
| 24 | a | 4019 | BCR | C40-C30-C29 | 2.46 | 118.74 | 108.91 |
| 21 | 1 | 1501 | CLA | CHA-C4D-ND | 2.46 | 137.64 | 132.50 |
| 21 | 2 | 1201 | CLA | CHA-C4D-ND | 2.46 | 137.64 | 132.50 |
| 24 | 2 | 4005 | BCR | C40-C30-C29 | 2.46 | 118.74 | 108.91 |
| 21 | B | 1236 | CLA | CHA-C4D-ND | 2.46 | 137.64 | 132.50 |
| 21 | A | 1101 | CLA | CHA-C4D-ND | 2.46 | 137.64 | 132.50 |
| 21 | B | 1214 | CLA | CHA-C4D-ND | 2.46 | 137.64 | 132.50 |
| 21 | 2 | 1205 | CLA | CHA-C4D-ND | 2.46 | 137.64 | 132.50 |
| 24 | 9 | 4021 | BCR | C40-C30-C29 | 2.46 | 118.73 | 108.91 |
| 21 | 7 | 1302 | CLA | CHA-C4D-ND | 2.46 | 137.64 | 132.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 24 | b | 4014 | BCR | C40-C30-C29 | 2.46 | 118.73 | 108.91 |
| 21 | 1 | 1111 | CLA | C1D-ND-C4D | -2.46 | 104.59 | 106.33 |
| 24 | b | 4017 | BCR | C40-C30-C29 | 2.46 | 118.73 | 108.91 |
| 21 | 2 | 1237 | CLA | CHA-C4D-ND | 2.46 | 137.64 | 132.50 |
| 25 | A | 5003 | LHG | O8-C23-C24 | 2.46 | 119.61 | 111.91 |
| 34 | F | 4016 | ZEX | C11-C12-C13 | -2.46 | 119.52 | 126.42 |
| 24 | a | 4002 | BCR | C40-C30-C29 | 2.46 | 118.73 | 108.91 |
| 21 | B | 1221 | CLA | C1D-ND-C4D | -2.45 | 104.59 | 106.33 |
| 24 | B | 4005 | BCR | C40-C30-C29 | 2.45 | 118.72 | 108.91 |
| 21 | 1 | 1013 | CLA | CHA-C4D-ND | 2.45 | 137.63 | 132.50 |
| 24 | 6 | 4016 | BCR | C40-C30-C29 | 2.45 | 118.72 | 108.91 |
| 24 | J | 4013 | BCR | C40-C30-C29 | 2.45 | 118.72 | 108.91 |
| 21 | b | 1208 | CLA | CHA-C4D-ND | 2.45 | 137.63 | 132.50 |
| 21 | 2 | 1210 | CLA | O2A-CGA-CBA | 2.45 | 119.61 | 111.91 |
| 24 | 1 | 4019 | BCR | C40-C30-C29 | 2.45 | 118.72 | 108.91 |
| 24 | A | 4001 | BCR | C40-C30-C29 | 2.45 | 118.72 | 108.91 |
| 21 | b | 1022 | CLA | O2A-CGA-CBA | 2.45 | 119.60 | 111.91 |
| 24 | 0 | 4022 | BCR | C40-C30-C29 | 2.45 | 118.71 | 108.91 |
| 21 | 1 | 1118 | CLA | CMA-C3A-C4A | 2.45 | 118.36 | 111.77 |
| 24 | A | 4007 | BCR | C40-C30-C29 | 2.45 | 118.71 | 108.91 |
| 21 | 1 | 1101 | CLA | CHA-C4D-ND | 2.45 | 137.63 | 132.50 |
| 21 | 1 | 1135 | CLA | CHA-C4D-ND | 2.45 | 137.62 | 132.50 |
| 24 | b | 4005 | BCR | C40-C30-C29 | 2.45 | 118.71 | 108.91 |
| 24 | a | 4007 | BCR | C40-C30-C29 | 2.45 | 118.70 | 108.91 |
| 24 | 1 | 4003 | BCR | C40-C30-C29 | 2.45 | 118.70 | 108.91 |
| 21 | A | 1110 | CLA | CHA-C4D-ND | 2.45 | 137.62 | 132.50 |
| 21 | a | 1138 | CLA | O2A-CGA-CBA | 2.45 | 119.59 | 111.91 |
| 21 | a | 1133 | CLA | O2A-CGA-CBA | 2.45 | 119.59 | 111.91 |
| 21 | 2 | 1224 | CLA | CHA-C4D-ND | 2.45 | 137.62 | 132.50 |
| 21 | 1 | 1011 | CLA | CMB-C2B-C1B | -2.45 | 124.70 | 128.46 |
| 21 | b | 1220 | CLA | CMA-C3A-C4A | 2.45 | 118.35 | 111.77 |
| 21 | A | 1128 | CLA | CHA-C4D-ND | 2.45 | 137.62 | 132.50 |
| 21 | B | 1234 | CLA | CHA-C4D-ND | 2.45 | 137.62 | 132.50 |
| 21 | a | 1102 | CLA | CHA-C4D-ND | 2.45 | 137.62 | 132.50 |
| 21 | 1 | 1013 | CLA | CMB-C2B-C3B | 2.45 | 129.26 | 124.68 |
| 21 | a | 1134 | CLA | CHA-C4D-ND | 2.45 | 137.62 | 132.50 |
| 21 | 2 | 1213 | CLA | CHA-C4D-ND | 2.45 | 137.62 | 132.50 |
| 24 | L | 4022 | BCR | C40-C30-C29 | 2.45 | 118.69 | 108.91 |
| 24 | 8 | 4001 | BCR | C40-C30-C29 | 2.45 | 118.69 | 108.91 |
| 21 | A | 1102 | CLA | C1D-ND-C4D | -2.45 | 104.60 | 106.33 |
| 21 | a | 1012 | CLA | O2D-CGD-O1D | -2.45 | 119.06 | 123.84 |
| 21 | A | 1137 | CLA | CHA-C4D-ND | 2.45 | 137.62 | 132.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 24 | 2 | 4018 | BCR | C40-C30-C29 | 2.45 | 118.69 | 108.91 |
| 24 | B | 4017 | BCR | C40-C30-C29 | 2.45 | 118.69 | 108.91 |
| 24 | B | 4018 | BCR | C40-C30-C29 | 2.45 | 118.69 | 108.91 |
| 24 | 1 | 4003 | BCR | C40-C30-C25 | -2.45 | 106.33 | 110.30 |
| 24 | K | 4001 | BCR | C40-C30-C29 | 2.45 | 118.69 | 108.91 |
| 24 | a | 4003 | BCR | C40-C30-C29 | 2.45 | 118.69 | 108.91 |
| 21 | B | 1212 | CLA | CHA-C4D-ND | 2.45 | 137.61 | 132.50 |
| 21 | 2 | 1206 | CLA | CHA-C4D-ND | 2.45 | 137.61 | 132.50 |
| 21 | b | 1022 | CLA | CHA-C4D-ND | 2.44 | 137.61 | 132.50 |
| 24 | A | 4002 | BCR | C40-C30-C29 | 2.44 | 118.68 | 108.91 |
| 24 | B | 4004 | BCR | C40-C30-C29 | 2.44 | 118.68 | 108.91 |
| 21 | 2 | 1236 | CLA | O2A-CGA-CBA | 2.44 | 119.58 | 111.91 |
| 24 | 8 | 4001 | BCR | C29-C28-C27 | 2.44 | 116.84 | 111.38 |
| 21 | k | 1401 | CLA | CHA-C4D-ND | 2.44 | 137.61 | 132.50 |
| 21 | a | 1107 | CLA | CMD-C2D-C3D | -2.44 | 121.99 | 127.61 |
| 24 | 2 | 4011 | BCR | C40-C30-C29 | 2.44 | 118.68 | 108.91 |
| 21 | b | 1228 | CLA | CMA-C3A-C4A | 2.44 | 118.34 | 111.77 |
| 21 | j | 1303 | CLA | CHA-C4D-ND | 2.44 | 137.61 | 132.50 |
| 21 | 1 | 1129 | CLA | CHA-C4D-ND | 2.44 | 137.61 | 132.50 |
| 24 | 7 | 4013 | BCR | C40-C30-C29 | 2.44 | 118.68 | 108.91 |
| 21 | B | 1227 | CLA | CHA-C4D-ND | 2.44 | 137.61 | 132.50 |
| 24 | f | 4016 | BCR | C40-C30-C29 | 2.44 | 118.67 | 108.91 |
| 24 | 2 | 4010 | BCR | C40-C30-C29 | 2.44 | 118.67 | 108.91 |
| 21 | a | 1121 | CLA | CHA-C4D-ND | 2.44 | 137.61 | 132.50 |
| 21 | A | 1124 | CLA | CMD-C2D-C3D | -2.44 | 122.00 | 127.61 |
| 24 | k | 4001 | BCR | C38-C26-C25 | -2.44 | 121.79 | 124.53 |
| 24 | l | 4019 | BCR | C38-C26-C25 | -2.44 | 121.79 | 124.53 |
| 21 | 2 | 1206 | CLA | C1D-ND-C4D | -2.44 | 104.60 | 106.33 |
| 24 | 1 | 4002 | BCR | C40-C30-C29 | 2.44 | 118.67 | 108.91 |
| 21 | B | 1222 | CLA | CMB-C2B-C1B | -2.44 | 124.71 | 128.46 |
| 24 | l | 4022 | BCR | C40-C30-C29 | 2.44 | 118.66 | 108.91 |
| 21 | f | 1301 | CLA | CHA-C4D-ND | 2.44 | 137.60 | 132.50 |
| 21 | 2 | 1022 | CLA | CHA-C4D-ND | 2.44 | 137.60 | 132.50 |
| 36 | I | 4020 | EQ3 | C38-C26-C25 | -2.44 | 120.19 | 124.11 |
| 30 | i | 4020 | ECH | C8-C9-C10 | -2.44 | 115.20 | 118.94 |
| 21 | a | 1116 | CLA | CHA-C4D-ND | 2.44 | 137.60 | 132.50 |
| 21 | j | 1302 | CLA | CHA-C4D-ND | 2.44 | 137.60 | 132.50 |
| 21 | 8 | 1401 | CLA | CHA-C4D-ND | 2.44 | 137.60 | 132.50 |
| 21 | B | 1232 | CLA | O2A-CGA-CBA | 2.44 | 119.56 | 111.91 |
| 21 | B | 1211 | CLA | C1D-ND-C4D | -2.44 | 104.60 | 106.33 |
| 21 | A | 1138 | CLA | O2D-CGD-CBD | 2.44 | 115.60 | 111.27 |
| 21 | A | 1012 | CLA | CHA-C4D-ND | 2.44 | 137.60 | 132.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | a | 1113 | CLA | CHA-C4D-ND | 2.44 | 137.60 | 132.50 |
| 21 | B | 1239 | CLA | CHA-C4D-ND | 2.44 | 137.60 | 132.50 |
| 24 | 1 | 4019 | BCR | C40-C30-C29 | 2.44 | 118.65 | 108.91 |
| 21 | b | 1235 | CLA | CMA-C3A-C4A | 2.44 | 118.32 | 111.77 |
| 21 | 2 | 1204 | CLA | CMA-C3A-C4A | 2.44 | 118.32 | 111.77 |
| 30 | 2 | 4006 | ECH | C36-C18-C19 | -2.44 | 114.24 | 118.08 |
| 24 | 1 | 4008 | BCR | C37-C22-C23 | 2.44 | 121.91 | 118.08 |
| 21 | A | 1115 | CLA | C3D-C2D-C1D | -2.43 | 102.51 | 105.83 |
| 21 | 1 | 1125 | CLA | C3D-C2D-C1D | -2.43 | 102.51 | 105.83 |
| 21 | A | 1111 | CLA | CHA-C4D-ND | 2.43 | 137.59 | 132.50 |
| 21 | B | 1215 | CLA | CHA-C4D-ND | 2.43 | 137.59 | 132.50 |
| 21 | b | 1230 | CLA | CHA-C4D-ND | 2.43 | 137.59 | 132.50 |
| 21 | 1 | 1116 | CLA | CHA-C4D-ND | 2.43 | 137.59 | 132.50 |
| 21 | a | 1112 | CLA | C1D-ND-C4D | -2.43 | 104.61 | 106.33 |
| 21 | 1 | 1118 | CLA | CHA-C4D-ND | 2.43 | 137.59 | 132.50 |
| 24 | 1 | 4008 | BCR | C40-C30-C29 | 2.43 | 118.64 | 108.91 |
| 21 | B | 1226 | CLA | C2D-C1D-ND | 2.43 | 111.90 | 110.10 |
| 21 | K | 1401 | CLA | CAA-C2A-C1A | -2.43 | 104.00 | 111.97 |
| 21 | B | 1201 | CLA | CHA-C4D-ND | 2.43 | 137.59 | 132.50 |
| 21 | a | 1012 | CLA | C3D-C2D-C1D | -2.43 | 102.51 | 105.83 |
| 21 | B | 1232 | CLA | CHA-C4D-ND | 2.43 | 137.59 | 132.50 |
| 21 | 1 | 1112 | CLA | O2A-CGA-CBA | 2.43 | 119.54 | 111.91 |
| 21 | 1 | 1106 | CLA | CHA-C4D-ND | 2.43 | 137.59 | 132.50 |
| 21 | 1 | 1119 | CLA | CMA-C3A-C4A | 2.43 | 118.31 | 111.77 |
| 21 | a | 1103 | CLA | C1D-ND-C4D | -2.43 | 104.61 | 106.33 |
| 21 | b | 1231 | CLA | CMD-C2D-C3D | -2.43 | 122.02 | 127.61 |
| 21 | a | 1138 | CLA | CHA-C4D-ND | 2.43 | 137.58 | 132.50 |
| 21 | 1 | 1115 | CLA | C1-O2A-CGA | 2.43 | 122.82 | 116.44 |
| 21 | 2 | 1219 | CLA | CHA-C4D-ND | 2.43 | 137.58 | 132.50 |
| 21 | 1 | 1132 | CLA | CMB-C2B-C3B | 2.43 | 129.22 | 124.68 |
| 24 | L | 4019 | BCR | C40-C30-C29 | 2.43 | 118.62 | 108.91 |
| 24 | 0 | 4019 | BCR | C40-C30-C29 | 2.43 | 118.62 | 108.91 |
| 21 | A | 1105 | CLA | O2A-CGA-CBA | 2.43 | 119.53 | 111.91 |
| 25 | 1 | 5007 | LHG | O8-C23-C24 | 2.43 | 119.53 | 111.91 |
| 24 | 2 | 4004 | BCR | C38-C26-C25 | -2.43 | 121.80 | 124.53 |
| 24 | 2 | 4014 | BCR | C19-C18-C17 | 2.43 | 122.67 | 118.94 |
| 21 | a | 1115 | CLA | CHA-C4D-ND | 2.43 | 137.58 | 132.50 |
| 21 | 2 | 1207 | CLA | CHA-C4D-ND | 2.43 | 137.58 | 132.50 |
| 24 | J | 4013 | BCR | C34-C9-C10 | -2.43 | 119.52 | 122.92 |
| 24 | L | 4022 | BCR | C15-C14-C13 | 2.43 | 130.78 | 127.31 |
| 24 | A | 4001 | BCR | C30-C25-C26 | -2.43 | 119.19 | 122.61 |
| 21 | a | 1114 | CLA | CHA-C4D-ND | 2.43 | 137.58 | 132.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | A | 1104 | CLA | CMB-C2B-C3B | 2.43 | 129.22 | 124.68 |
| 24 | A | 4019 | BCR | C40-C30-C29 | 2.43 | 118.61 | 108.91 |
| 24 | A | 4002 | BCR | C37-C22-C23 | 2.43 | 121.90 | 118.08 |
| 21 | a | 1118 | CLA | O2A-CGA-CBA | 2.43 | 119.52 | 111.91 |
| 24 | 1 | 4001 | BCR | C40-C30-C29 | 2.43 | 118.61 | 108.91 |
| 21 | b | 1232 | CLA | O2A-CGA-CBA | 2.43 | 119.52 | 111.91 |
| 24 | a | 4012 | BCR | C40-C30-C29 | 2.43 | 118.61 | 108.91 |
| 21 | 2 | 1202 | CLA | CHA-C4D-ND | 2.43 | 137.57 | 132.50 |
| 21 | b | 1240 | CLA | C3D-C2D-C1D | -2.43 | 102.52 | 105.83 |
| 21 | A | 1115 | CLA | CHA-C4D-ND | 2.43 | 137.57 | 132.50 |
| 21 | 2 | 1215 | CLA | CHA-C4D-ND | 2.43 | 137.57 | 132.50 |
| 21 | 2 | 1238 | CLA | CHA-C4D-ND | 2.42 | 137.57 | 132.50 |
| 24 | a | 4019 | BCR | C35-C13-C14 | -2.42 | 119.53 | 122.92 |
| 21 | b | 1215 | CLA | CHA-C4D-ND | 2.42 | 137.57 | 132.50 |
| 21 | a | 1128 | CLA | CHA-C4D-ND | 2.42 | 137.57 | 132.50 |
| 21 | a | 1103 | CLA | CMA-C3A-C4A | 2.42 | 118.28 | 111.77 |
| 21 | 2 | 1218 | CLA | O2A-CGA-CBA | 2.42 | 119.51 | 111.91 |
| 21 | a | 1112 | CLA | CHA-C4D-ND | 2.42 | 137.56 | 132.50 |
| 21 | A | 1117 | CLA | O2A-CGA-CBA | 2.42 | 119.50 | 111.91 |
| 21 | 1 | 1138 | CLA | CHA-C4D-ND | 2.42 | 137.56 | 132.50 |
| 21 | a | 1134 | CLA | C1D-ND-C4D | -2.42 | 104.62 | 106.33 |
| 21 | A | 1120 | CLA | C3D-C2D-C1D | -2.42 | 102.53 | 105.83 |
| 24 | B | 4010 | BCR | C40-C30-C29 | 2.42 | 118.58 | 108.91 |
| 25 | a | 5007 | LHG | C5-O7-C7 | -2.42 | 111.84 | 117.79 |
| 24 | b | 4010 | BCR | C40-C30-C29 | 2.42 | 118.58 | 108.91 |
| 21 | b | 1206 | CLA | CHA-C4D-ND | 2.42 | 137.56 | 132.50 |
| 24 | B | 4014 | BCR | C40-C30-C29 | 2.42 | 118.58 | 108.91 |
| 21 | f | 1302 | CLA | CHA-C4D-ND | 2.42 | 137.56 | 132.50 |
| 30 | B | 4006 | ECH | C12-C13-C14 | 2.42 | 122.65 | 118.94 |
| 24 | 1 | 4008 | BCR | C38-C26-C25 | -2.42 | 121.81 | 124.53 |
| 21 | a | 1105 | CLA | CHA-C4D-ND | 2.42 | 137.55 | 132.50 |
| 30 | i | 4020 | ECH | C7-C6-C5 | -2.42 | 115.61 | 121.46 |
| 21 | a | 1126 | CLA | CHA-C4D-ND | 2.42 | 137.55 | 132.50 |
| 24 | B | 4010 | BCR | C34-C9-C10 | -2.42 | 119.54 | 122.92 |
| 24 | a | 4003 | BCR | C40-C30-C25 | -2.42 | 106.38 | 110.30 |
| 28 | h | 4020 | 45D | C10-C18-C16 | 2.42 | 120.88 | 118.65 |
| 24 | 2 | 4010 | BCR | C19-C18-C17 | 2.42 | 122.65 | 118.94 |
| 21 | a | 1106 | CLA | CHA-C4D-ND | 2.41 | 137.55 | 132.50 |
| 21 | B | 1217 | CLA | CHA-C4D-ND | 2.41 | 137.55 | 132.50 |
| 21 | b | 1227 | CLA | CHA-C4D-ND | 2.41 | 137.55 | 132.50 |
| 24 | 2 | 4004 | BCR | C40-C30-C29 | 2.41 | 118.56 | 108.91 |
| 21 | a | 1107 | CLA | CHA-C4D-ND | 2.41 | 137.55 | 132.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | b | 1229 | CLA | C3D-C2D-C1D | -2.41 | 102.54 | 105.83 |
| 21 | l | 1136 | CLA | O2A-CGA-CBA | 2.41 | 119.48 | 111.91 |
| 21 | a | 1136 | CLA | O2D-CGD-O1D | -2.41 | 119.12 | 123.84 |
| 21 | B | 1224 | CLA | CHA-C4D-ND | 2.41 | 137.54 | 132.50 |
| 21 | k | 1402 | CLA | CHA-C4D-ND | 2.41 | 137.54 | 132.50 |
| 21 | 2 | 1203 | CLA | CHA-C4D-ND | 2.41 | 137.54 | 132.50 |
| 21 | a | 1135 | CLA | CHA-C4D-ND | 2.41 | 137.54 | 132.50 |
| 21 | b | 1212 | CLA | C3D-C2D-C1D | -2.41 | 102.54 | 105.83 |
| 21 | A | 1011 | CLA | CHA-C4D-ND | 2.41 | 137.54 | 132.50 |
| 21 | l | 1113 | CLA | CHA-C4D-ND | 2.41 | 137.54 | 132.50 |
| 21 | A | 1134 | CLA | CHA-C4D-ND | 2.41 | 137.54 | 132.50 |
| 21 | b | 1217 | CLA | O2A-CGA-CBA | 2.41 | 119.47 | 111.91 |
| 21 | F | 1301 | CLA | CHA-C4D-ND | 2.41 | 137.54 | 132.50 |
| 21 | b | 1210 | CLA | CHA-C4D-ND | 2.41 | 137.54 | 132.50 |
| 21 | a | 1119 | CLA | CHA-C4D-ND | 2.41 | 137.53 | 132.50 |
| 21 | a | 1133 | CLA | CHA-C4D-ND | 2.41 | 137.53 | 132.50 |
| 30 | M | 4021 | ECH | C23-C24-C25 | -2.41 | 120.44 | 127.20 |
| 21 | b | 1218 | CLA | CHA-C4D-ND | 2.41 | 137.53 | 132.50 |
| 21 | B | 1228 | CLA | CHA-C4D-ND | 2.41 | 137.53 | 132.50 |
| 21 | b | 1219 | CLA | CHA-C4D-ND | 2.41 | 137.53 | 132.50 |
| 21 | 2 | 1227 | CLA | CMD-C2D-C3D | -2.41 | 122.08 | 127.61 |
| 21 | 2 | 1228 | CLA | CMD-C2D-C3D | -2.41 | 122.08 | 127.61 |
| 21 | l | 1135 | CLA | CMB-C2B-C1B | -2.41 | 124.77 | 128.46 |
| 21 | b | 1023 | CLA | C1D-ND-C4D | -2.41 | 104.63 | 106.33 |
| 21 | l | 1121 | CLA | C1D-ND-C4D | -2.41 | 104.63 | 106.33 |
| 21 | 0 | 1501 | CLA | CHA-C4D-ND | 2.41 | 137.53 | 132.50 |
| 25 | B | 5006 | LHG | C5-O7-C7 | -2.41 | 111.87 | 117.79 |
| 21 | A | 1103 | CLA | CMB-C2B-C3B | 2.41 | 129.18 | 124.68 |
| 21 | l | 1122 | CLA | CHA-C4D-ND | 2.41 | 137.53 | 132.50 |
| 21 | b | 1230 | CLA | CMB-C2B-C1B | -2.40 | 124.77 | 128.46 |
| 21 | B | 1239 | CLA | C1-O2A-CGA | 2.40 | 122.75 | 116.44 |
| 21 | l | 1503 | CLA | O2A-CGA-CBA | 2.40 | 119.45 | 111.91 |
| 25 | B | 5004 | LHG | O8-C23-C24 | 2.40 | 119.45 | 111.91 |
| 21 | a | 1129 | CLA | CHA-C4D-ND | 2.40 | 137.53 | 132.50 |
| 21 | 8 | 1402 | CLA | C3D-C2D-C1D | -2.40 | 102.55 | 105.83 |
| 21 | A | 1127 | CLA | O2A-CGA-CBA | 2.40 | 119.45 | 111.91 |
| 21 | 2 | 1206 | CLA | O2A-CGA-CBA | 2.40 | 119.45 | 111.91 |
| 21 | a | 1113 | CLA | CMB-C2B-C3B | 2.40 | 129.17 | 124.68 |
| 21 | b | 1201 | CLA | CMA-C3A-C4A | 2.40 | 118.23 | 111.77 |
| 21 | J | 1303 | CLA | O2A-CGA-CBA | 2.40 | 119.44 | 111.91 |
| 21 | 7 | 1302 | CLA | C3D-C2D-C1D | -2.40 | 102.55 | 105.83 |
| 21 | l | 1135 | CLA | CMD-C2D-C3D | -2.40 | 122.09 | 127.61 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | b | 1234 | CLA | CHA-C4D-ND | 2.40 | 137.52 | 132.50 |
| 21 | B | 1206 | CLA | CMA-C3A-C4A | 2.40 | 118.22 | 111.77 |
| 21 | b | 1236 | CLA | CHA-C4D-ND | 2.40 | 137.52 | 132.50 |
| 24 | 2 | 4017 | BCR | C40-C30-C25 | -2.40 | 106.41 | 110.30 |
| 28 | B | 4011 | 45D | C24-C26-C30 | 2.40 | 122.62 | 118.94 |
| 21 | 1 | 1116 | CLA | O2A-CGA-CBA | 2.40 | 119.43 | 111.91 |
| 21 | 2 | 1212 | CLA | C3D-C2D-C1D | -2.40 | 102.56 | 105.83 |
| 21 | 1 | 1103 | CLA | CHA-C4D-ND | 2.40 | 137.51 | 132.50 |
| 21 | 1 | 1134 | CLA | CHA-C4D-ND | 2.40 | 137.51 | 132.50 |
| 21 | A | 1114 | CLA | CHA-C4D-ND | 2.39 | 137.51 | 132.50 |
| 21 | B | 1023 | CLA | O2A-CGA-CBA | 2.39 | 119.42 | 111.91 |
| 21 | 2 | 1211 | CLA | CMD-C2D-C3D | -2.39 | 122.11 | 127.61 |
| 21 | B | 1206 | CLA | CHA-C4D-ND | 2.39 | 137.51 | 132.50 |
| 21 | a | 1012 | CLA | O2A-CGA-CBA | 2.39 | 119.42 | 111.91 |
| 21 | A | 1104 | CLA | C3D-C2D-C1D | -2.39 | 102.56 | 105.83 |
| 24 | A | 4008 | BCR | C40-C30-C29 | 2.39 | 118.48 | 108.91 |
| 24 | a | 4019 | BCR | C30-C25-C26 | -2.39 | 119.24 | 122.61 |
| 24 | 7 | 4013 | BCR | C29-C28-C27 | 2.39 | 116.73 | 111.38 |
| 21 | b | 1227 | CLA | CMB-C2B-C1B | -2.39 | 124.78 | 128.46 |
| 21 | f | 1302 | CLA | CMB-C2B-C1B | -2.39 | 124.78 | 128.46 |
| 21 | b | 1218 | CLA | C3D-C2D-C1D | -2.39 | 102.56 | 105.83 |
| 21 | 2 | 1023 | CLA | C3D-C2D-C1D | -2.39 | 102.56 | 105.83 |
| 21 | A | 1129 | CLA | CHA-C4D-ND | 2.39 | 137.50 | 132.50 |
| 21 | b | 1212 | CLA | C1-O2A-CGA | 2.39 | 122.72 | 116.44 |
| 24 | k | 4001 | BCR | C40-C30-C29 | 2.39 | 118.47 | 108.91 |
| 21 | a | 1111 | CLA | CHA-C4D-ND | 2.39 | 137.50 | 132.50 |
| 21 | b | 1213 | CLA | C1-O2A-CGA | 2.39 | 122.72 | 116.44 |
| 21 | 2 | 1221 | CLA | C2D-C1D-ND | 2.39 | 111.87 | 110.10 |
| 31 | f | 5001 | SQD | O3-C3-C2 | -2.39 | 104.82 | 110.35 |
| 21 | 1 | 1801 | CLA | C1-O2A-CGA | 2.39 | 122.72 | 116.44 |
| 24 | a | 4012 | BCR | C30-C25-C26 | -2.39 | 119.25 | 122.61 |
| 21 | a | 1131 | CLA | CHA-C4D-ND | 2.39 | 137.50 | 132.50 |
| 21 | 1 | 1102 | CLA | C1-O2A-CGA | 2.39 | 122.71 | 116.44 |
| 26 | b | 5005 | LMG | O6-C1-O1 | -2.39 | 104.32 | 109.97 |
| 21 | 1 | 1105 | CLA | CHA-C4D-ND | 2.39 | 137.49 | 132.50 |
| 21 | A | 1103 | CLA | CMD-C2D-C3D | -2.39 | 122.12 | 127.61 |
| 28 | B | 4011 | 45D | C21-C15-C07 | -2.39 | 120.27 | 124.11 |
| 21 | 1 | 1120 | CLA | CHA-C4D-ND | 2.39 | 137.49 | 132.50 |
| 21 | 1 | 1012 | CLA | CHA-C4D-ND | 2.39 | 137.49 | 132.50 |
| 21 | a | 1120 | CLA | CHA-C4D-ND | 2.39 | 137.49 | 132.50 |
| 21 | 2 | 1210 | CLA | CHA-C4D-ND | 2.39 | 137.49 | 132.50 |
| 21 | a | 1013 | CLA | C3D-C2D-C1D | -2.38 | 102.58 | 105.83 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | B | 1022 | CLA | CHA-C4D-ND | 2.38 | 137.49 | 132.50 |
| 21 | B | 1208 | CLA | CMD-C2D-C3D | -2.38 | 122.13 | 127.61 |
| 24 | a | 4007 | BCR | C34-C9-C10 | -2.38 | 119.58 | 122.92 |
| 21 | b | 1210 | CLA | O2A-CGA-CBA | 2.38 | 119.39 | 111.91 |
| 21 | 2 | 1234 | CLA | CHA-C4D-ND | 2.38 | 137.48 | 132.50 |
| 21 | 0 | 1503 | CLA | CHA-C4D-ND | 2.38 | 137.48 | 132.50 |
| 21 | 2 | 1216 | CLA | CHA-C1A-NA | -2.38 | 120.94 | 126.40 |
| 21 | b | 1225 | CLA | CMB-C2B-C3B | 2.38 | 129.13 | 124.68 |
| 21 | 1 | 1132 | CLA | CHA-C4D-ND | 2.38 | 137.48 | 132.50 |
| 21 | a | 1128 | CLA | O2A-CGA-CBA | 2.38 | 119.38 | 111.91 |
| 21 | a | 1121 | CLA | CMB-C2B-C3B | 2.38 | 129.13 | 124.68 |
| 21 | A | 1129 | CLA | CMB-C2B-C3B | 2.38 | 129.13 | 124.68 |
| 21 | l | 1503 | CLA | C1-O2A-CGA | 2.38 | 122.69 | 116.44 |
| 21 | A | 1112 | CLA | CHA-C4D-ND | 2.38 | 137.48 | 132.50 |
| 21 | b | 1227 | CLA | CMA-C3A-C4A | 2.38 | 118.17 | 111.77 |
| 21 | 2 | 1239 | CLA | CAA-CBA-CGA | -2.38 | 106.30 | 113.25 |
| 21 | b | 1236 | CLA | CMD-C2D-C3D | -2.38 | 122.14 | 127.61 |
| 25 | b | 5004 | LHG | C5-O7-C7 | -2.38 | 111.94 | 117.79 |
| 21 | A | 1105 | CLA | CHA-C4D-ND | 2.38 | 137.47 | 132.50 |
| 21 | A | 1140 | CLA | CHA-C4D-ND | 2.38 | 137.47 | 132.50 |
| 21 | 2 | 1218 | CLA | CHA-C4D-ND | 2.38 | 137.47 | 132.50 |
| 21 | 2 | 1231 | CLA | CHA-C4D-ND | 2.38 | 137.47 | 132.50 |
| 21 | B | 1205 | CLA | O2A-CGA-CBA | 2.38 | 119.36 | 111.91 |
| 21 | B | 1209 | CLA | O2D-CGD-O1D | -2.38 | 119.19 | 123.84 |
| 21 | b | 1023 | CLA | C3D-C2D-C1D | -2.38 | 102.59 | 105.83 |
| 21 | B | 1206 | CLA | O2A-CGA-CBA | 2.37 | 119.36 | 111.91 |
| 21 | 2 | 1023 | CLA | O2A-CGA-CBA | 2.37 | 119.36 | 111.91 |
| 21 | a | 1130 | CLA | CHA-C4D-ND | 2.37 | 137.47 | 132.50 |
| 24 | A | 4003 | BCR | C1-C6-C7 | 2.37 | 122.50 | 115.78 |
| 21 | L | 1501 | CLA | CMB-C2B-C3B | 2.37 | 129.12 | 124.68 |
| 21 | b | 1222 | CLA | CMD-C2D-C3D | -2.37 | 122.15 | 127.61 |
| 36 | I | 4020 | EQ3 | C37-C22-C23 | 2.37 | 121.82 | 118.08 |
| 24 | b | 4018 | BCR | C29-C28-C27 | 2.37 | 116.68 | 111.38 |
| 21 | 1 | 1136 | CLA | C3D-C2D-C1D | -2.37 | 102.59 | 105.83 |
| 21 | A | 1012 | CLA | C2A-C1A-CHA | 2.37 | 128.01 | 123.86 |
| 21 | 1 | 1013 | CLA | CMB-C2B-C1B | -2.37 | 124.82 | 128.46 |
| 21 | b | 1219 | CLA | C1-O2A-CGA | 2.37 | 122.66 | 116.44 |
| 21 | a | 1102 | CLA | O2A-CGA-CBA | 2.37 | 119.35 | 111.91 |
| 21 | 1 | 1121 | CLA | CHA-C1A-NA | -2.37 | 120.97 | 126.40 |
| 21 | 6 | 1301 | CLA | CHA-C4D-ND | 2.37 | 137.46 | 132.50 |
| 21 | A | 1113 | CLA | O2A-CGA-CBA | 2.37 | 119.34 | 111.91 |
| 24 | B | 4014 | BCR | C8-C9-C10 | 2.37 | 122.58 | 118.94 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 25 | 2 | 5004 | LHG | C5-O7-C7 | -2.37 | 111.96 | 117.79 |
| 21 | A | 1136 | CLA | CHA-C4D-ND | 2.37 | 137.46 | 132.50 |
| 21 | a | 1128 | CLA | C1D-ND-C4D | -2.37 | 104.65 | 106.33 |
| 21 | 2 | 1240 | CLA | CHA-C4D-ND | 2.37 | 137.45 | 132.50 |
| 34 | 7 | 4015 | ZEX | C40-C33-C34 | -2.37 | 119.61 | 122.92 |
| 21 | A | 1012 | CLA | O2A-CGA-CBA | 2.37 | 119.34 | 111.91 |
| 21 | j | 1302 | CLA | C3D-C2D-C1D | -2.37 | 102.60 | 105.83 |
| 21 | 2 | 1203 | CLA | C3D-C2D-C1D | -2.37 | 102.60 | 105.83 |
| 21 | B | 1023 | CLA | C1D-ND-C4D | -2.37 | 104.65 | 106.33 |
| 21 | B | 1206 | CLA | C1D-ND-C4D | -2.37 | 104.65 | 106.33 |
| 21 | A | 1113 | CLA | CMD-C2D-C3D | -2.37 | 122.17 | 127.61 |
| 21 | b | 1209 | CLA | CHA-C4D-ND | 2.37 | 137.45 | 132.50 |
| 21 | a | 1106 | CLA | CMB-C2B-C1B | -2.37 | 124.83 | 128.46 |
| 36 | I | 4020 | EQ3 | C12-C13-C14 | -2.37 | 115.31 | 118.94 |
| 21 | 1 | 1132 | CLA | C3D-C2D-C1D | -2.37 | 102.60 | 105.83 |
| 24 | A | 4012 | BCR | C34-C9-C10 | -2.37 | 119.61 | 122.92 |
| 21 | B | 1207 | CLA | CHA-C4D-ND | 2.36 | 137.45 | 132.50 |
| 24 | a | 4001 | BCR | C27-C26-C25 | -2.36 | 119.30 | 122.73 |
| 21 | 2 | 1203 | CLA | CMA-C3A-C4A | 2.36 | 118.13 | 111.77 |
| 22 | B | 2002 | PQN | O4-C4-C5 | -2.36 | 117.73 | 121.56 |
| 21 | J | 1303 | CLA | C3D-C2D-C1D | -2.36 | 102.61 | 105.83 |
| 24 | 1 | 4008 | BCR | C29-C28-C27 | 2.36 | 116.66 | 111.38 |
| 25 | 2 | 5004 | LHG | O8-C23-C24 | 2.36 | 119.33 | 111.91 |
| 21 | b | 1216 | CLA | O2A-CGA-CBA | 2.36 | 119.32 | 111.91 |
| 21 | A | 1122 | CLA | CHA-C4D-ND | 2.36 | 137.44 | 132.50 |
| 21 | B | 1220 | CLA | O2A-CGA-CBA | 2.36 | 119.32 | 111.91 |
| 21 | a | 1125 | CLA | C3D-C2D-C1D | -2.36 | 102.61 | 105.83 |
| 21 | b | 1223 | CLA | O2A-CGA-CBA | 2.36 | 119.32 | 111.91 |
| 21 | 2 | 1219 | CLA | CAA-C2A-C3A | -2.36 | 106.31 | 112.78 |
| 21 | A | 1129 | CLA | O2A-CGA-CBA | 2.36 | 119.32 | 111.91 |
| 21 | A | 1120 | CLA | C1-O2A-CGA | 2.36 | 122.64 | 116.44 |
| 21 | 1 | 1139 | CLA | C1-O2A-CGA | 2.36 | 122.64 | 116.44 |
| 21 | 1 | 1117 | CLA | CHA-C4D-ND | 2.36 | 137.44 | 132.50 |
| 21 | A | 1135 | CLA | CHA-C4D-ND | 2.36 | 137.44 | 132.50 |
| 21 | 2 | 1222 | CLA | CHA-C4D-ND | 2.36 | 137.44 | 132.50 |
| 24 | 0 | 4022 | BCR | C8-C9-C10 | 2.36 | 122.56 | 118.94 |
| 28 | h | 4020 | 45D | C03-C07-C19 | 2.36 | 122.45 | 115.78 |
| 21 | a | 1111 | CLA | CMA-C3A-C4A | 2.36 | 118.11 | 111.77 |
| 21 | B | 1230 | CLA | CHA-C4D-ND | 2.36 | 137.43 | 132.50 |
| 21 | A | 1134 | CLA | CHA-C1A-NA | -2.36 | 121.00 | 126.40 |
| 21 | B | 1210 | CLA | CHA-C1A-NA | -2.36 | 121.00 | 126.40 |
| 21 | 2 | 1214 | CLA | CHA-C1A-NA | -2.36 | 121.00 | 126.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 22 | b | 2002 | PQN | O1-C1-C10 | -2.36 | 117.74 | 121.56 |
| 21 | 1 | 1111 | CLA | CHA-C1A-NA | -2.36 | 121.00 | 126.40 |
| 24 | I | 4018 | BCR | C32-C1-C6 | -2.36 | 106.47 | 110.30 |
| 21 | k | 1402 | CLA | C1-O2A-CGA | 2.36 | 122.63 | 116.44 |
| 21 | A | 1125 | CLA | CMA-C3A-C4A | 2.36 | 118.11 | 111.77 |
| 21 | b | 1209 | CLA | O2A-CGA-CBA | 2.36 | 119.31 | 111.91 |
| 21 | B | 1205 | CLA | CMA-C3A-C4A | 2.36 | 118.11 | 111.77 |
| 21 | B | 1204 | CLA | CHA-C4D-ND | 2.36 | 137.43 | 132.50 |
| 21 | b | 1022 | CLA | CMA-C3A-C4A | 2.36 | 118.11 | 111.77 |
| 24 | B | 4005 | BCR | C34-C9-C10 | -2.36 | 119.62 | 122.92 |
| 21 | b | 1214 | CLA | CHA-C4D-ND | 2.36 | 137.43 | 132.50 |
| 24 | a | 4002 | BCR | C29-C28-C27 | 2.36 | 116.64 | 111.38 |
| 21 | 2 | 1215 | CLA | C3D-C2D-C1D | -2.36 | 102.61 | 105.83 |
| 21 | F | 1302 | CLA | C1D-ND-C4D | -2.36 | 104.66 | 106.33 |
| 24 | 0 | 4019 | BCR | C32-C1-C6 | -2.36 | 106.48 | 110.30 |
| 24 | 2 | 4014 | BCR | C36-C18-C19 | -2.36 | 114.36 | 118.08 |
| 21 | A | 1139 | CLA | CHA-C4D-ND | 2.36 | 137.43 | 132.50 |
| 21 | a | 1103 | CLA | CMB-C2B-C3B | 2.36 | 129.09 | 124.68 |
| 21 | A | 1106 | CLA | CHA-C4D-ND | 2.36 | 137.43 | 132.50 |
| 21 | 2 | 1234 | CLA | C3D-C2D-C1D | -2.36 | 102.62 | 105.83 |
| 21 | B | 1213 | CLA | CHA-C1A-NA | -2.35 | 121.01 | 126.40 |
| 21 | a | 1121 | CLA | CMB-C2B-C1B | -2.35 | 124.85 | 128.46 |
| 21 | b | 1225 | CLA | O2A-CGA-CBA | 2.35 | 119.29 | 111.91 |
| 21 | 2 | 1212 | CLA | CAA-C2A-C3A | -2.35 | 110.61 | 116.10 |
| 21 | 2 | 1205 | CLA | CMD-C2D-C3D | -2.35 | 122.20 | 127.61 |
| 21 | b | 1239 | CLA | CMA-C3A-C4A | 2.35 | 118.09 | 111.77 |
| 24 | b | 4017 | BCR | C40-C30-C25 | -2.35 | 106.48 | 110.30 |
| 30 | M | 4021 | ECH | C28-C27-C26 | -2.35 | 116.48 | 118.65 |
| 21 | 2 | 1218 | CLA | CMB-C2B-C3B | 2.35 | 129.08 | 124.68 |
| 24 | 2 | 4018 | BCR | C40-C30-C25 | -2.35 | 106.49 | 110.30 |
| 21 | 0 | 1503 | CLA | CMA-C3A-C4A | 2.35 | 118.09 | 111.77 |
| 21 | a | 1011 | CLA | O2A-CGA-CBA | 2.35 | 119.28 | 111.91 |
| 21 | a | 1103 | CLA | CMD-C2D-C3D | -2.35 | 122.21 | 127.61 |
| 21 | b | 1212 | CLA | O2D-CGD-O1D | -2.35 | 119.25 | 123.84 |
| 21 | 1 | 1115 | CLA | CHA-C4D-ND | 2.35 | 137.41 | 132.50 |
| 21 | 1 | 1130 | CLA | CMA-C3A-C4A | 2.35 | 118.08 | 111.77 |
| 21 | 2 | 1234 | CLA | O2A-CGA-CBA | 2.35 | 119.28 | 111.91 |
| 21 | 1 | 1126 | CLA | CHA-C4D-ND | 2.35 | 137.41 | 132.50 |
| 21 | 1 | 1102 | CLA | C1D-ND-C4D | -2.35 | 104.67 | 106.33 |
| 24 | 2 | 4018 | BCR | C8-C9-C10 | 2.35 | 122.54 | 118.94 |
| 21 | b | 1220 | CLA | C3D-C2D-C1D | -2.35 | 102.63 | 105.83 |
| 21 | B | 1210 | CLA | O2A-CGA-CBA | 2.35 | 119.28 | 111.91 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | L | 1503 | CLA | O2A-CGA-CBA | 2.35 | 119.27 | 111.91 |
| 22 | A | 2001 | PQN | C2M-C2-C3 | -2.35 | 120.57 | 124.40 |
| 21 | 2 | 1235 | CLA | CHA-C4D-ND | 2.35 | 137.41 | 132.50 |
| 21 | b | 1204 | CLA | CMA-C3A-C4A | 2.35 | 118.08 | 111.77 |
| 21 | B | 1234 | CLA | C3D-C2D-C1D | -2.35 | 102.63 | 105.83 |
| 21 | B | 1229 | CLA | O2A-CGA-CBA | 2.35 | 119.27 | 111.91 |
| 21 | 1 | 1107 | CLA | CHA-C4D-ND | 2.34 | 137.40 | 132.50 |
| 21 | 1 | 1133 | CLA | CMA-C3A-C4A | 2.34 | 118.07 | 111.77 |
| 21 | 1 | 1130 | CLA | CMB-C2B-C1B | -2.34 | 124.86 | 128.46 |
| 21 | 2 | 1239 | CLA | CHA-C4D-ND | 2.34 | 137.40 | 132.50 |
| 21 | A | 1117 | CLA | CHA-C4D-ND | 2.34 | 137.40 | 132.50 |
| 21 | 1 | 1111 | CLA | CMB-C2B-C1B | -2.34 | 124.86 | 128.46 |
| 24 | a | 4008 | BCR | C32-C1-C6 | -2.34 | 106.50 | 110.30 |
| 21 | B | 1232 | CLA | C3D-C2D-C1D | -2.34 | 102.64 | 105.83 |
| 21 | A | 1106 | CLA | C3D-C2D-C1D | -2.34 | 102.64 | 105.83 |
| 21 | A | 1135 | CLA | O2D-CGD-CBD | 2.34 | 115.43 | 111.27 |
| 21 | 1 | 1124 | CLA | C1-O2A-CGA | 2.34 | 122.58 | 116.44 |
| 21 | b | 1022 | CLA | CMB-C2B-C3B | 2.34 | 129.06 | 124.68 |
| 21 | A | 1011 | CLA | O1D-CGD-CBD | -2.34 | 119.70 | 124.48 |
| 21 | B | 1235 | CLA | C3D-C2D-C1D | -2.34 | 102.64 | 105.83 |
| 21 | 1 | 1502 | CLA | C3D-C2D-C1D | -2.34 | 102.64 | 105.83 |
| 21 | 2 | 1226 | CLA | O2A-CGA-CBA | 2.34 | 119.24 | 111.91 |
| 21 | 1 | 1105 | CLA | O2A-CGA-CBA | 2.34 | 119.24 | 111.91 |
| 21 | b | 1230 | CLA | C3D-C2D-C1D | -2.34 | 102.64 | 105.83 |
| 21 | B | 1208 | CLA | O2A-CGA-CBA | 2.34 | 119.24 | 111.91 |
| 30 | M | 4021 | ECH | C8-C7-C6 | -2.34 | 120.64 | 127.20 |
| 21 | 2 | 1225 | CLA | CMD-C2D-C3D | -2.34 | 122.24 | 127.61 |
| 21 | A | 1109 | CLA | CMA-C3A-C4A | 2.34 | 118.05 | 111.77 |
| 21 | B | 1207 | CLA | C1-O2A-CGA | 2.34 | 122.57 | 116.44 |
| 21 | a | 1117 | CLA | CHA-C4D-ND | 2.34 | 137.38 | 132.50 |
| 21 | b | 1224 | CLA | CHA-C4D-ND | 2.33 | 137.38 | 132.50 |
| 24 | A | 4008 | BCR | C32-C1-C6 | -2.33 | 106.51 | 110.30 |
| 21 | 1 | 1108 | CLA | CHA-C4D-ND | 2.33 | 137.38 | 132.50 |
| 21 | b | 1211 | CLA | CMD-C2D-C3D | -2.33 | 122.25 | 127.61 |
| 30 | m | 4021 | ECH | C23-C24-C25 | -2.33 | 120.65 | 127.20 |
| 21 | 1 | 1013 | CLA | CMA-C3A-C4A | 2.33 | 118.04 | 111.77 |
| 21 | 1 | 1502 | CLA | CHA-C4D-ND | 2.33 | 137.38 | 132.50 |
| 31 | B | 5008 | SQD | O3-C3-C2 | -2.33 | 104.96 | 110.35 |
| 30 | b | 4006 | ECH | C15-C16-C17 | -2.33 | 118.70 | 123.47 |
| 21 | A | 1106 | CLA | CMA-C3A-C4A | 2.33 | 118.04 | 111.77 |
| 24 | a | 4007 | BCR | C35-C13-C12 | 2.33 | 121.75 | 118.08 |
| 21 | 2 | 1229 | CLA | C3D-C2D-C1D | -2.33 | 102.65 | 105.83 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 24 | 2 | 4010 | BCR | C36-C18-C19 | -2.33 | 114.40 | 118.08 |
| 21 | b | 1218 | CLA | CMB-C2B-C1B | -2.33 | 124.88 | 128.46 |
| 21 | 1 | 1104 | CLA | CMA-C3A-C4A | 2.33 | 118.04 | 111.77 |
| 21 | B | 1222 | CLA | CHA-C4D-ND | 2.33 | 137.38 | 132.50 |
| 30 | i | 4020 | ECH | C35-C13-C12 | -2.33 | 114.41 | 118.08 |
| 24 | K | 4001 | BCR | C34-C9-C10 | -2.33 | 119.66 | 122.92 |
| 24 | B | 4005 | BCR | C39-C30-C25 | -2.33 | 106.52 | 110.30 |
| 21 | A | 1108 | CLA | CHA-C4D-ND | 2.33 | 137.37 | 132.50 |
| 21 | 2 | 1216 | CLA | CMA-C3A-C4A | 2.33 | 118.03 | 111.77 |
| 21 | B | 1224 | CLA | C3D-C2D-C1D | -2.33 | 102.66 | 105.83 |
| 21 | 2 | 1236 | CLA | CMB-C2B-C1B | -2.33 | 124.89 | 128.46 |
| 21 | 2 | 1224 | CLA | CMA-C3A-C4A | 2.33 | 118.03 | 111.77 |
| 21 | b | 1237 | CLA | CHA-C4D-ND | 2.33 | 137.37 | 132.50 |
| 24 | b | 4004 | BCR | C24-C25-C26 | -2.33 | 115.83 | 121.46 |
| 21 | a | 1113 | CLA | O2A-CGA-CBA | 2.33 | 119.21 | 111.91 |
| 24 | B | 4018 | BCR | C34-C9-C10 | -2.33 | 119.66 | 122.92 |
| 21 | a | 1012 | CLA | CHA-C1A-NA | -2.33 | 121.07 | 126.40 |
| 24 | 2 | 4014 | BCR | C8-C9-C10 | 2.33 | 122.51 | 118.94 |
| 21 | A | 1132 | CLA | CHA-C4D-ND | 2.33 | 137.36 | 132.50 |
| 21 | b | 1238 | CLA | CHA-C4D-ND | 2.33 | 137.36 | 132.50 |
| 24 | a | 4001 | BCR | C39-C30-C25 | -2.33 | 106.53 | 110.30 |
| 21 | a | 1109 | CLA | CMD-C2D-C3D | -2.33 | 122.27 | 127.61 |
| 21 | a | 1121 | CLA | CHA-C1A-NA | -2.32 | 121.07 | 126.40 |
| 21 | l | 1501 | CLA | CMB-C2B-C1B | -2.32 | 124.89 | 128.46 |
| 21 | J | 1302 | CLA | C3D-C2D-C1D | -2.32 | 102.66 | 105.83 |
| 21 | 1 | 1102 | CLA | CAA-CBA-CGA | -2.32 | 106.46 | 113.25 |
| 21 | A | 1126 | CLA | CHA-C4D-ND | 2.32 | 137.36 | 132.50 |
| 21 | b | 1215 | CLA | O2A-CGA-CBA | 2.32 | 119.19 | 111.91 |
| 21 | 1 | 1122 | CLA | C3D-C2D-C1D | -2.32 | 102.66 | 105.83 |
| 21 | b | 1235 | CLA | CHA-C4D-ND | 2.32 | 137.36 | 132.50 |
| 21 | b | 1239 | CLA | CHA-C4D-ND | 2.32 | 137.36 | 132.50 |
| 21 | b | 1225 | CLA | CHA-C4D-ND | 2.32 | 137.35 | 132.50 |
| 21 | 1 | 1107 | CLA | O2A-CGA-CBA | 2.32 | 119.19 | 111.91 |
| 21 | 1 | 1133 | CLA | O2A-CGA-CBA | 2.32 | 119.19 | 111.91 |
| 21 | 2 | 1204 | CLA | CHA-C4D-ND | 2.32 | 137.35 | 132.50 |
| 24 | 2 | 4018 | BCR | C37-C22-C23 | 2.32 | 121.73 | 118.08 |
| 21 | b | 1221 | CLA | C6-C7-C8 | -2.32 | 108.42 | 115.92 |
| 21 | l | 1501 | CLA | O2A-CGA-CBA | 2.32 | 119.19 | 111.91 |
| 34 | j | 4015 | ZEX | C11-C12-C13 | -2.32 | 119.90 | 126.42 |
| 21 | A | 1013 | CLA | C3D-C2D-C1D | -2.32 | 102.67 | 105.83 |
| 21 | B | 1201 | CLA | C1D-ND-C4D | -2.32 | 104.69 | 106.33 |
| 26 | 1 | 5002 | LMG | O8-C28-C29 | 2.32 | 119.18 | 111.91 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | a | 1122 | CLA | C1-O2A-CGA | 2.32 | 122.53 | 116.44 |
| 25 | a | 5005 | LHG | O7-C7-O9 | -2.32 | 118.10 | 123.70 |
| 21 | b | 1021 | CLA | O2A-CGA-CBA | 2.32 | 119.18 | 111.91 |
| 21 | b | 1201 | CLA | O2A-CGA-CBA | 2.32 | 119.18 | 111.91 |
| 21 | 2 | 1221 | CLA | CMA-C3A-C4A | 2.32 | 118.00 | 111.77 |
| 21 | b | 1234 | CLA | CMB-C2B-C3B | 2.32 | 129.01 | 124.68 |
| 21 | A | 1116 | CLA | CHA-C4D-ND | 2.32 | 137.34 | 132.50 |
| 21 | L | 1501 | CLA | CHA-C4D-ND | 2.32 | 137.34 | 132.50 |
| 21 | A | 1111 | CLA | CMA-C3A-C4A | 2.32 | 118.00 | 111.77 |
| 21 | 1 | 1122 | CLA | CMD-C2D-C3D | -2.32 | 122.29 | 127.61 |
| 25 | 0 | 5004 | LHG | C5-O7-C7 | -2.31 | 112.09 | 117.79 |
| 21 | 2 | 1218 | CLA | C3D-C2D-C1D | -2.31 | 102.67 | 105.83 |
| 21 | a | 1122 | CLA | CHA-C4D-ND | 2.31 | 137.34 | 132.50 |
| 24 | b | 4004 | BCR | C19-C18-C17 | 2.31 | 122.49 | 118.94 |
| 21 | A | 1104 | CLA | CHA-C1A-NA | -2.31 | 121.10 | 126.40 |
| 21 | A | 1137 | CLA | O2A-CGA-CBA | 2.31 | 119.17 | 111.91 |
| 21 | a | 1125 | CLA | O2A-CGA-CBA | 2.31 | 119.17 | 111.91 |
| 24 | L | 4022 | BCR | C12-C13-C14 | -2.31 | 115.39 | 118.94 |
| 21 | 6 | 1302 | CLA | C3D-C2D-C1D | -2.31 | 102.67 | 105.83 |
| 24 | 2 | 4017 | BCR | C39-C30-C25 | -2.31 | 106.55 | 110.30 |
| 24 | a | 4019 | BCR | C34-C9-C10 | -2.31 | 119.68 | 122.92 |
| 26 | B | 5002 | LMG | C7-O1-C1 | -2.31 | 109.22 | 113.74 |
| 21 | 1 | 1111 | CLA | C1-O2A-CGA | 2.31 | 122.51 | 116.44 |
| 21 | a | 1106 | CLA | C3D-C2D-C1D | -2.31 | 102.68 | 105.83 |
| 24 | 1 | 4012 | BCR | C37-C22-C23 | 2.31 | 121.72 | 118.08 |
| 21 | b | 1023 | CLA | CMB-C2B-C3B | 2.31 | 129.00 | 124.68 |
| 21 | a | 1119 | CLA | CMB-C2B-C3B | 2.31 | 129.00 | 124.68 |
| 21 | B | 1231 | CLA | CMD-C2D-C3D | -2.31 | 122.30 | 127.61 |
| 21 | 2 | 1021 | CLA | O2A-CGA-CBA | 2.31 | 119.16 | 111.91 |
| 21 | B | 1213 | CLA | C3D-C2D-C1D | -2.31 | 102.68 | 105.83 |
| 21 | 2 | 1224 | CLA | C3D-C2D-C1D | -2.31 | 102.68 | 105.83 |
| 21 | 0 | 1502 | CLA | C3D-C2D-C1D | -2.31 | 102.68 | 105.83 |
| 21 | a | 1124 | CLA | CHA-C4D-ND | 2.31 | 137.33 | 132.50 |
| 21 | a | 1136 | CLA | CMD-C2D-C3D | -2.31 | 122.30 | 127.61 |
| 21 | B | 1222 | CLA | CBC-CAC-C3C | -2.31 | 106.07 | 112.43 |
| 21 | B | 1219 | CLA | O2A-CGA-CBA | 2.31 | 119.15 | 111.91 |
| 21 | 2 | 1224 | CLA | CHA-C1A-NA | -2.31 | 121.11 | 126.40 |
| 21 | B | 1228 | CLA | CMA-C3A-C4A | 2.31 | 117.97 | 111.77 |
| 21 | B | 1218 | CLA | CHA-C4D-ND | 2.31 | 137.32 | 132.50 |
| 21 | a | 1107 | CLA | CMB-C2B-C1B | -2.31 | 124.92 | 128.46 |
| 21 | 1 | 1119 | CLA | C1D-ND-C4D | -2.31 | 104.70 | 106.33 |
| 21 | B | 1228 | CLA | C3D-C2D-C1D | -2.31 | 102.69 | 105.83 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | A | 1125 | CLA | O2D-CGD-O1D | -2.31 | 119.33 | 123.84 |
| 21 | B | 1235 | CLA | CHA-C4D-ND | 2.31 | 137.32 | 132.50 |
| 21 | b | 1222 | CLA | CHA-C4D-ND | 2.31 | 137.32 | 132.50 |
| 21 | A | 1140 | CLA | C3D-C2D-C1D | -2.30 | 102.69 | 105.83 |
| 24 | 6 | 4016 | BCR | C37-C22-C23 | 2.30 | 121.71 | 118.08 |
| 21 | B | 1210 | CLA | C3D-C2D-C1D | -2.30 | 102.69 | 105.83 |
| 21 | B | 1223 | CLA | C3D-C2D-C1D | -2.30 | 102.69 | 105.83 |
| 30 | m | 4021 | ECH | C8-C7-C6 | -2.30 | 120.73 | 127.20 |
| 21 | L | 1502 | CLA | C3D-C2D-C1D | -2.30 | 102.69 | 105.83 |
| 21 | B | 1237 | CLA | CHA-C4D-ND | 2.30 | 137.32 | 132.50 |
| 35 | L | 6001 | LMT | C3'-C4'-C5' | -2.30 | 105.65 | 110.93 |
| 21 | 1 | 1136 | CLA | CHA-C4D-ND | 2.30 | 137.31 | 132.50 |
| 21 | B | 1206 | CLA | C3D-C2D-C1D | -2.30 | 102.69 | 105.83 |
| 21 | 2 | 1210 | CLA | C3D-C2D-C1D | -2.30 | 102.69 | 105.83 |
| 24 | B | 4017 | BCR | C34-C9-C10 | -2.30 | 119.70 | 122.92 |
| 24 | B | 4017 | BCR | C39-C30-C25 | -2.30 | 106.57 | 110.30 |
| 24 | j | 4013 | BCR | C37-C22-C23 | 2.30 | 121.70 | 118.08 |
| 21 | 1 | 1121 | CLA | CMB-C2B-C3B | 2.30 | 128.98 | 124.68 |
| 21 | 2 | 1201 | CLA | C3D-C2D-C1D | -2.30 | 102.69 | 105.83 |
| 21 | b | 1237 | CLA | CMB-C2B-C1B | -2.30 | 124.93 | 128.46 |
| 24 | B | 4004 | BCR | C19-C18-C17 | 2.30 | 122.47 | 118.94 |
| 21 | 1 | 1123 | CLA | C1D-ND-C4D | -2.30 | 104.70 | 106.33 |
| 21 | 2 | 1021 | CLA | C1D-ND-C4D | -2.30 | 104.70 | 106.33 |
| 21 | 2 | 1202 | CLA | C1D-ND-C4D | -2.30 | 104.70 | 106.33 |
| 24 | A | 4019 | BCR | C40-C30-C25 | -2.30 | 106.57 | 110.30 |
| 21 | A | 1132 | CLA | C3D-C2D-C1D | -2.30 | 102.69 | 105.83 |
| 21 | a | 1134 | CLA | O2A-CGA-CBA | 2.30 | 119.12 | 111.91 |
| 21 | 1 | 1134 | CLA | O2A-CGA-CBA | 2.30 | 119.12 | 111.91 |
| 21 | 1 | 1121 | CLA | CMD-C2D-C3D | -2.30 | 122.33 | 127.61 |
| 21 | B | 1207 | CLA | C3D-C2D-C1D | -2.30 | 102.69 | 105.83 |
| 21 | 2 | 1223 | CLA | C3D-C2D-C1D | -2.30 | 102.69 | 105.83 |
| 21 | 8 | 1401 | CLA | C3D-C2D-C1D | -2.30 | 102.69 | 105.83 |
| 21 | 2 | 1207 | CLA | CHA-C1A-NA | -2.30 | 121.13 | 126.40 |
| 21 | 7 | 1302 | CLA | CAA-C2A-C3A | -2.30 | 110.74 | 116.10 |
| 21 | 1 | 1137 | CLA | C3D-C2D-C1D | -2.30 | 102.70 | 105.83 |
| 21 | B | 1228 | CLA | O2A-CGA-CBA | 2.30 | 119.12 | 111.91 |
| 21 | 2 | 1201 | CLA | CMD-C2D-C3D | -2.30 | 122.33 | 127.61 |
| 21 | B | 1212 | CLA | C3D-C2D-C1D | -2.30 | 102.70 | 105.83 |
| 21 | K | 1401 | CLA | C1-O2A-CGA | 2.30 | 122.47 | 116.44 |
| 21 | b | 1213 | CLA | CBA-CAA-C2A | 2.30 | 120.64 | 113.86 |
| 21 | A | 1107 | CLA | O2A-CGA-CBA | 2.30 | 119.11 | 111.91 |
| 21 | b | 1023 | CLA | O2A-CGA-CBA | 2.29 | 119.11 | 111.91 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | B | 1226 | CLA | CMD-C2D-C3D | -2.29 | 122.34 | 127.61 |
| 21 | b | 1021 | CLA | CHA-C1A-NA | -2.29 | 121.14 | 126.40 |
| 21 | b | 1202 | CLA | CHA-C4D-ND | 2.29 | 137.30 | 132.50 |
| 36 | I | 4020 | EQ3 | C3-C4-C5 | 2.29 | 116.42 | 111.85 |
| 21 | 2 | 1236 | CLA | C3D-C2D-C1D | -2.29 | 102.70 | 105.83 |
| 21 | 1 | 1111 | CLA | CMD-C2D-C3D | -2.29 | 122.34 | 127.61 |
| 21 | 1 | 1012 | CLA | O2A-CGA-CBA | 2.29 | 119.10 | 111.91 |
| 24 | a | 4008 | BCR | C35-C13-C12 | 2.29 | 121.69 | 118.08 |
| 21 | k | 1401 | CLA | O2A-CGA-CBA | 2.29 | 119.10 | 111.91 |
| 21 | a | 1101 | CLA | CMD-C2D-C3D | -2.29 | 122.34 | 127.61 |
| 21 | 2 | 1023 | CLA | CHA-C1A-NA | -2.29 | 121.15 | 126.40 |
| 34 | F | 4016 | ZEX | C40-C33-C34 | -2.29 | 119.72 | 122.92 |
| 21 | A | 1131 | CLA | CMD-C2D-C3D | -2.29 | 122.35 | 127.61 |
| 25 | l | 5004 | LHG | C5-O7-C7 | -2.29 | 112.15 | 117.79 |
| 24 | 9 | 4021 | BCR | C27-C26-C25 | -2.29 | 119.41 | 122.73 |
| 21 | 2 | 1209 | CLA | C3D-C2D-C1D | -2.29 | 102.71 | 105.83 |
| 21 | 1 | 1135 | CLA | CMB-C2B-C3B | 2.29 | 128.96 | 124.68 |
| 21 | a | 1124 | CLA | CAA-CBA-CGA | -2.29 | 106.56 | 113.25 |
| 21 | 1 | 1111 | CLA | CMB-C2B-C3B | 2.29 | 128.96 | 124.68 |
| 21 | a | 1110 | CLA | C3D-C2D-C1D | -2.29 | 102.71 | 105.83 |
| 21 | b | 1232 | CLA | C3D-C2D-C1D | -2.29 | 102.71 | 105.83 |
| 21 | b | 1214 | CLA | CMB-C2B-C1B | -2.29 | 124.95 | 128.46 |
| 21 | k | 1402 | CLA | C3D-C2D-C1D | -2.29 | 102.71 | 105.83 |
| 21 | 1 | 1123 | CLA | CHA-C1A-NA | -2.29 | 121.16 | 126.40 |
| 26 | b | 5002 | LMG | O7-C10-O9 | -2.29 | 118.17 | 123.70 |
| 21 | B | 1225 | CLA | CHA-C4D-ND | 2.29 | 137.28 | 132.50 |
| 21 | b | 1201 | CLA | CHA-C4D-ND | 2.29 | 137.28 | 132.50 |
| 21 | B | 1222 | CLA | O2D-CGD-O1D | -2.29 | 119.37 | 123.84 |
| 21 | 2 | 1021 | CLA | CMD-C2D-C3D | -2.29 | 122.36 | 127.61 |
| 21 | a | 1112 | CLA | C3D-C2D-C1D | -2.29 | 102.71 | 105.83 |
| 24 | f | 4016 | BCR | C29-C28-C27 | 2.29 | 116.48 | 111.38 |
| 21 | A | 1107 | CLA | CHA-C4D-ND | 2.29 | 137.28 | 132.50 |
| 21 | B | 1217 | CLA | C3D-C2D-C1D | -2.28 | 102.71 | 105.83 |
| 21 | B | 1207 | CLA | O2D-CGD-CBD | 2.28 | 115.33 | 111.27 |
| 28 | h | 4020 | 45D | C27-C25-C23 | 2.28 | 121.68 | 118.08 |
| 21 | 1 | 1131 | CLA | CMD-C2D-C3D | -2.28 | 122.36 | 127.61 |
| 21 | b | 1229 | CLA | CHA-C4D-ND | 2.28 | 137.28 | 132.50 |
| 21 | k | 1401 | CLA | CHA-C1A-NA | -2.28 | 121.17 | 126.40 |
| 21 | A | 1124 | CLA | CHA-C4D-ND | 2.28 | 137.28 | 132.50 |
| 22 | 1 | 2001 | PQN | C2M-C2-C3 | -2.28 | 120.67 | 124.40 |
| 21 | a | 1131 | CLA | CMA-C3A-C4A | 2.28 | 117.91 | 111.77 |
| 21 | B | 1219 | CLA | CHA-C4D-ND | 2.28 | 137.27 | 132.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | b | 1217 | CLA | C3D-C2D-C1D | -2.28 | 102.72 | 105.83 |
| 21 | b | 1023 | CLA | CHA-C1A-NA | -2.28 | 121.17 | 126.40 |
| 21 | 2 | 1023 | CLA | C2A-C1A-CHA | 2.28 | 127.85 | 123.86 |
| 21 | B | 1240 | CLA | C3D-C2D-C1D | -2.28 | 102.72 | 105.83 |
| 21 | a | 1801 | CLA | C3D-C2D-C1D | -2.28 | 102.72 | 105.83 |
| 24 | a | 4012 | BCR | C27-C26-C25 | -2.28 | 119.42 | 122.73 |
| 21 | b | 1204 | CLA | CHA-C4D-ND | 2.28 | 137.27 | 132.50 |
| 21 | L | 1502 | CLA | CHA-C4D-ND | 2.28 | 137.27 | 132.50 |
| 21 | a | 1115 | CLA | C1-O2A-CGA | 2.28 | 122.42 | 116.44 |
| 21 | 7 | 1303 | CLA | C1D-ND-C4D | -2.28 | 104.72 | 106.33 |
| 24 | J | 4013 | BCR | C37-C22-C23 | 2.28 | 121.67 | 118.08 |
| 24 | A | 4007 | BCR | C37-C22-C23 | 2.28 | 121.67 | 118.08 |
| 24 | l | 4019 | BCR | C39-C30-C25 | -2.28 | 106.61 | 110.30 |
| 21 | a | 1123 | CLA | CMD-C2D-C3D | -2.28 | 122.38 | 127.61 |
| 21 | 1 | 1801 | CLA | CMD-C2D-C3D | -2.28 | 122.38 | 127.61 |
| 21 | b | 1229 | CLA | C1-O2A-CGA | 2.28 | 122.42 | 116.44 |
| 21 | B | 1218 | CLA | C3D-C2D-C1D | -2.28 | 102.72 | 105.83 |
| 21 | B | 1213 | CLA | CBA-CAA-C2A | 2.28 | 120.58 | 113.86 |
| 24 | 2 | 4005 | BCR | C39-C30-C25 | -2.28 | 106.61 | 110.30 |
| 21 | 2 | 1240 | CLA | C3D-C2D-C1D | -2.28 | 102.72 | 105.83 |
| 24 | 2 | 4014 | BCR | C34-C9-C10 | -2.28 | 119.73 | 122.92 |
| 21 | K | 1401 | CLA | CHA-C4D-ND | 2.28 | 137.26 | 132.50 |
| 21 | a | 1012 | CLA | CMB-C2B-C1B | -2.28 | 124.97 | 128.46 |
| 21 | B | 1219 | CLA | CHA-C1A-NA | -2.27 | 121.19 | 126.40 |
| 21 | b | 1202 | CLA | CMD-C2D-C3D | -2.27 | 122.38 | 127.61 |
| 21 | A | 1112 | CLA | C1D-ND-C4D | -2.27 | 104.72 | 106.33 |
| 21 | L | 1503 | CLA | CHA-C4D-ND | 2.27 | 137.25 | 132.50 |
| 21 | A | 1118 | CLA | O2A-CGA-CBA | 2.27 | 119.04 | 111.91 |
| 21 | b | 1215 | CLA | C3D-C2D-C1D | -2.27 | 102.73 | 105.83 |
| 21 | B | 1217 | CLA | CMD-C2D-C3D | -2.27 | 122.39 | 127.61 |
| 21 | a | 1121 | CLA | C3D-C2D-C1D | -2.27 | 102.73 | 105.83 |
| 21 | 2 | 1022 | CLA | C3D-C2D-C1D | -2.27 | 102.73 | 105.83 |
| 21 | 1 | 1129 | CLA | CHA-C1A-NA | -2.27 | 121.20 | 126.40 |
| 21 | 1 | 1012 | CLA | CMB-C2B-C1B | -2.27 | 124.97 | 128.46 |
| 21 | B | 1236 | CLA | O2A-CGA-CBA | 2.27 | 119.03 | 111.91 |
| 21 | A | 1128 | CLA | O2D-CGD-O1D | -2.27 | 119.40 | 123.84 |
| 21 | 2 | 1238 | CLA | CHA-C1A-NA | -2.27 | 121.20 | 126.40 |
| 21 | a | 1107 | CLA | C1-O2A-CGA | 2.27 | 122.40 | 116.44 |
| 24 | K | 4001 | BCR | C37-C22-C23 | 2.27 | 121.65 | 118.08 |
| 21 | A | 1101 | CLA | C3D-C2D-C1D | -2.27 | 102.73 | 105.83 |
| 21 | b | 1221 | CLA | C1D-ND-C4D | -2.27 | 104.72 | 106.33 |
| 21 | 2 | 1236 | CLA | CHA-C4D-ND | 2.27 | 137.24 | 132.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | 2 | 1230 | CLA | O2A-CGA-CBA | 2.27 | 119.03 | 111.91 |
| 21 | a | 1108 | CLA | CHA-C1A-NA | -2.27 | 121.20 | 126.40 |
| 21 | a | 1130 | CLA | C3D-C2D-C1D | -2.27 | 102.74 | 105.83 |
| 31 | 0 | 5005 | SQD | O3-C3-C2 | -2.27 | 105.11 | 110.35 |
| 21 | A | 1124 | CLA | C1-O2A-CGA | 2.27 | 122.39 | 116.44 |
| 21 | b | 1216 | CLA | CMD-C2D-C3D | -2.27 | 122.40 | 127.61 |
| 24 | K | 4001 | BCR | C38-C26-C27 | 2.27 | 117.97 | 113.62 |
| 21 | A | 1131 | CLA | C3D-C2D-C1D | -2.27 | 102.74 | 105.83 |
| 21 | 2 | 1214 | CLA | C3D-C2D-C1D | -2.27 | 102.74 | 105.83 |
| 21 | 2 | 1226 | CLA | CMD-C2D-C3D | -2.27 | 122.40 | 127.61 |
| 21 | a | 1103 | CLA | CMB-C2B-C1B | -2.27 | 124.98 | 128.46 |
| 21 | A | 1138 | CLA | CHA-C4D-ND | 2.27 | 137.24 | 132.50 |
| 21 | b | 1211 | CLA | CHA-C4D-ND | 2.26 | 137.24 | 132.50 |
| 21 | A | 1121 | CLA | O2A-CGA-CBA | 2.26 | 119.01 | 111.91 |
| 21 | 1 | 1124 | CLA | CMD-C2D-C3D | -2.26 | 122.41 | 127.61 |
| 21 | B | 1211 | CLA | C3D-C2D-C1D | -2.26 | 102.74 | 105.83 |
| 21 | a | 1139 | CLA | CMD-C2D-C3D | -2.26 | 122.41 | 127.61 |
| 21 | b | 1227 | CLA | C3D-C2D-C1D | -2.26 | 102.74 | 105.83 |
| 21 | a | 1120 | CLA | C3D-C2D-C1D | -2.26 | 102.74 | 105.83 |
| 21 | a | 1137 | CLA | C3D-C2D-C1D | -2.26 | 102.74 | 105.83 |
| 24 | a | 4012 | BCR | C40-C30-C25 | -2.26 | 106.63 | 110.30 |
| 21 | 1 | 1119 | CLA | O2A-CGA-CBA | 2.26 | 119.01 | 111.91 |
| 21 | b | 1232 | CLA | CMD-C2D-C3D | -2.26 | 122.41 | 127.61 |
| 24 | B | 4004 | BCR | C29-C28-C27 | 2.26 | 116.43 | 111.38 |
| 21 | A | 1104 | CLA | CAA-C2A-C3A | -2.26 | 106.58 | 112.78 |
| 21 | B | 1230 | CLA | C3D-C2D-C1D | -2.26 | 102.75 | 105.83 |
| 21 | 1 | 1134 | CLA | C3D-C2D-C1D | -2.26 | 102.75 | 105.83 |
| 21 | 1 | 1129 | CLA | CMA-C3A-C4A | 2.26 | 117.85 | 111.77 |
| 21 | 1 | 1102 | CLA | CMA-C3A-C4A | 2.26 | 117.85 | 111.77 |
| 21 | 1 | 1113 | CLA | C3D-C2D-C1D | -2.26 | 102.75 | 105.83 |
| 21 | a | 1140 | CLA | C1-O2A-CGA | 2.26 | 122.38 | 116.44 |
| 21 | a | 1101 | CLA | C1-O2A-CGA | 2.26 | 122.38 | 116.44 |
| 21 | B | 1229 | CLA | CHA-C4D-ND | 2.26 | 137.23 | 132.50 |
| 21 | 1 | 1110 | CLA | C3D-C2D-C1D | -2.26 | 102.75 | 105.83 |
| 21 | B | 1240 | CLA | O2A-CGA-CBA | 2.26 | 119.00 | 111.91 |
| 21 | 2 | 1226 | CLA | CHA-C1A-NA | -2.26 | 121.23 | 126.40 |
| 24 | b | 4018 | BCR | C37-C22-C23 | 2.26 | 121.64 | 118.08 |
| 21 | B | 1215 | CLA | C1D-ND-C4D | -2.26 | 104.73 | 106.33 |
| 21 | B | 1227 | CLA | C3D-C2D-C1D | -2.26 | 102.75 | 105.83 |
| 21 | a | 1120 | CLA | CHA-C1A-NA | -2.26 | 121.23 | 126.40 |
| 21 | 2 | 1224 | CLA | CMD-C2D-C3D | -2.26 | 122.42 | 127.61 |
| 21 | L | 1502 | CLA | O2A-CGA-CBA | 2.26 | 118.99 | 111.91 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | 2 | 1220 | CLA | C3D-C2D-C1D | -2.26 | 102.75 | 105.83 |
| 21 | b | 1207 | CLA | CHA-C4D-ND | 2.26 | 137.22 | 132.50 |
| 21 | 2 | 1237 | CLA | CMB-C2B-C1B | -2.26 | 125.00 | 128.46 |
| 21 | 1 | 1012 | CLA | C2A-C1A-CHA | 2.26 | 127.80 | 123.86 |
| 21 | l | 1503 | CLA | CHA-C4D-ND | 2.26 | 137.22 | 132.50 |
| 21 | a | 1114 | CLA | CHA-C1A-NA | -2.25 | 121.23 | 126.40 |
| 21 | A | 1112 | CLA | C3D-C2D-C1D | -2.25 | 102.75 | 105.83 |
| 21 | 1 | 1104 | CLA | C3D-C2D-C1D | -2.25 | 102.75 | 105.83 |
| 21 | a | 1104 | CLA | O2A-CGA-CBA | 2.25 | 118.98 | 111.91 |
| 21 | a | 1118 | CLA | CHA-C1A-NA | -2.25 | 121.23 | 126.40 |
| 21 | a | 1132 | CLA | C3D-C2D-C1D | -2.25 | 102.75 | 105.83 |
| 21 | B | 1226 | CLA | C1D-ND-C4D | -2.25 | 104.73 | 106.33 |
| 21 | a | 1113 | CLA | C3D-C2D-C1D | -2.25 | 102.76 | 105.83 |
| 21 | A | 1122 | CLA | CMB-C2B-C3B | 2.25 | 128.89 | 124.68 |
| 21 | 7 | 1303 | CLA | CMD-C2D-C3D | -2.25 | 122.43 | 127.61 |
| 30 | B | 4006 | ECH | C23-C24-C25 | -2.25 | 120.88 | 127.20 |
| 21 | 1 | 1102 | CLA | C3D-C2D-C1D | -2.25 | 102.76 | 105.83 |
| 24 | B | 4004 | BCR | C34-C9-C10 | -2.25 | 119.77 | 122.92 |
| 21 | B | 1237 | CLA | C1-O2A-CGA | 2.25 | 122.35 | 116.44 |
| 21 | 1 | 1013 | CLA | CHA-C1A-NA | -2.25 | 121.24 | 126.40 |
| 21 | a | 1101 | CLA | O2A-CGA-CBA | 2.25 | 118.97 | 111.91 |
| 21 | A | 1109 | CLA | O2D-CGD-O1D | -2.25 | 119.44 | 123.84 |
| 21 | 1 | 1126 | CLA | C3D-C2D-C1D | -2.25 | 102.76 | 105.83 |
| 21 | J | 1302 | CLA | O2A-CGA-CBA | 2.25 | 118.97 | 111.91 |
| 21 | a | 1101 | CLA | CBA-CAA-C2A | 2.25 | 120.50 | 113.86 |
| 24 | 1 | 4002 | BCR | C31-C1-C6 | -2.25 | 106.65 | 110.30 |
| 21 | k | 1401 | CLA | C1-O2A-CGA | 2.25 | 122.34 | 116.44 |
| 21 | A | 1120 | CLA | CMD-C2D-C3D | -2.25 | 122.44 | 127.61 |
| 21 | 1 | 1013 | CLA | C3D-C2D-C1D | -2.25 | 102.76 | 105.83 |
| 21 | b | 1226 | CLA | C1-O2A-CGA | 2.25 | 122.34 | 116.44 |
| 21 | B | 1219 | CLA | CMD-C2D-C3D | -2.25 | 122.44 | 127.61 |
| 21 | 1 | 1112 | CLA | C1D-ND-C4D | -2.25 | 104.74 | 106.33 |
| 21 | 2 | 1220 | CLA | C1D-ND-C4D | -2.25 | 104.74 | 106.33 |
| 21 | a | 1011 | CLA | O2D-CGD-CBD | 2.25 | 115.26 | 111.27 |
| 21 | B | 1217 | CLA | C1-C2-C3 | 2.25 | 129.93 | 126.04 |
| 24 | A | 4012 | BCR | C37-C22-C23 | 2.25 | 121.62 | 118.08 |
| 30 | b | 4006 | ECH | C37-C22-C23 | -2.25 | 114.54 | 118.08 |
| 21 | 1 | 1137 | CLA | CHA-C4D-ND | 2.24 | 137.19 | 132.50 |
| 21 | 2 | 1227 | CLA | CHA-C1A-NA | -2.24 | 121.26 | 126.40 |
| 21 | b | 1229 | CLA | C6-C7-C8 | -2.24 | 108.66 | 115.92 |
| 21 | a | 1121 | CLA | O2A-CGA-CBA | 2.24 | 118.95 | 111.91 |
| 21 | 2 | 1022 | CLA | CHA-C1A-NA | -2.24 | 121.26 | 126.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | b | 1237 | CLA | CMA-C3A-C4A | 2.24 | 117.80 | 111.77 |
| 24 | b | 4014 | BCR | C34-C9-C10 | -2.24 | 119.78 | 122.92 |
| 21 | B | 1207 | CLA | CHA-C1A-NA | -2.24 | 121.26 | 126.40 |
| 24 | a | 4001 | BCR | C37-C22-C23 | 2.24 | 121.61 | 118.08 |
| 21 | a | 1119 | CLA | O2A-CGA-CBA | 2.24 | 118.94 | 111.91 |
| 24 | 2 | 4018 | BCR | C35-C13-C12 | 2.24 | 121.61 | 118.08 |
| 21 | A | 1105 | CLA | C3D-C2D-C1D | -2.24 | 102.77 | 105.83 |
| 21 | A | 1115 | CLA | C1-O2A-CGA | 2.24 | 122.33 | 116.44 |
| 28 | B | 4011 | 45D | C06-C04-C08 | 2.24 | 113.93 | 110.48 |
| 21 | B | 1229 | CLA | CMA-C3A-C4A | 2.24 | 117.80 | 111.77 |
| 30 | 2 | 4006 | ECH | C12-C13-C14 | -2.24 | 115.50 | 118.94 |
| 24 | A | 4012 | BCR | C40-C30-C25 | -2.24 | 106.67 | 110.30 |
| 24 | k | 4001 | BCR | C37-C22-C23 | 2.24 | 121.61 | 118.08 |
| 21 | b | 1235 | CLA | O2A-CGA-CBA | 2.24 | 118.94 | 111.91 |
| 21 | 2 | 1232 | CLA | C1D-ND-C4D | -2.24 | 104.74 | 106.33 |
| 21 | 2 | 1210 | CLA | CHA-C1A-NA | -2.24 | 121.27 | 126.40 |
| 21 | 2 | 1231 | CLA | C3D-C2D-C1D | -2.24 | 102.78 | 105.83 |
| 21 | 1 | 1101 | CLA | CMD-C2D-C3D | -2.24 | 122.46 | 127.61 |
| 21 | A | 1112 | CLA | CHA-C1A-NA | -2.24 | 121.27 | 126.40 |
| 30 | b | 4006 | ECH | C23-C24-C25 | -2.24 | 120.92 | 127.20 |
| 24 | A | 4003 | BCR | C34-C9-C10 | -2.24 | 119.79 | 122.92 |
| 24 | a | 4003 | BCR | C35-C13-C14 | -2.24 | 119.79 | 122.92 |
| 21 | F | 1302 | CLA | C3D-C2D-C1D | -2.24 | 102.78 | 105.83 |
| 24 | 1 | 4007 | BCR | C37-C22-C23 | 2.24 | 121.60 | 118.08 |
| 24 | 1 | 4001 | BCR | C15-C14-C13 | -2.24 | 124.12 | 127.31 |
| 21 | 2 | 1214 | CLA | CMB-C2B-C1B | -2.24 | 125.03 | 128.46 |
| 21 | A | 1110 | CLA | CMD-C2D-C3D | -2.24 | 122.47 | 127.61 |
| 21 | 2 | 1208 | CLA | C3D-C2D-C1D | -2.24 | 102.78 | 105.83 |
| 21 | B | 1221 | CLA | C3D-C2D-C1D | -2.24 | 102.78 | 105.83 |
| 21 | 2 | 1219 | CLA | CMD-C2D-C3D | -2.24 | 122.47 | 127.61 |
| 21 | B | 1222 | CLA | CMA-C3A-C4A | 2.24 | 117.78 | 111.77 |
| 24 | B | 4018 | BCR | C12-C13-C14 | 2.24 | 122.37 | 118.94 |
| 21 | A | 1102 | CLA | CMB-C2B-C3B | 2.24 | 128.86 | 124.68 |
| 24 | B | 4017 | BCR | C32-C1-C6 | -2.23 | 106.67 | 110.30 |
| 21 | a | 1107 | CLA | C3D-C2D-C1D | -2.23 | 102.78 | 105.83 |
| 24 | B | 4010 | BCR | C37-C22-C23 | 2.23 | 121.60 | 118.08 |
| 21 | B | 1235 | CLA | O2A-CGA-CBA | 2.23 | 118.92 | 111.91 |
| 21 | 1 | 1103 | CLA | CMD-C2D-C3D | -2.23 | 122.48 | 127.61 |
| 21 | 1 | 1129 | CLA | O2A-CGA-CBA | 2.23 | 118.92 | 111.91 |
| 21 | a | 1103 | CLA | C3D-C2D-C1D | -2.23 | 102.78 | 105.83 |
| 21 | a | 1104 | CLA | CMB-C2B-C3B | 2.23 | 128.85 | 124.68 |
| 24 | 0 | 4019 | BCR | C39-C30-C25 | -2.23 | 106.68 | 110.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | a | 1101 | CLA | C3D-C2D-C1D | -2.23 | 102.78 | 105.83 |
| 21 | 1 | 1012 | CLA | C3D-C2D-C1D | -2.23 | 102.78 | 105.83 |
| 21 | A | 1103 | CLA | CHA-C4D-ND | 2.23 | 137.17 | 132.50 |
| 21 | 2 | 1230 | CLA | CMD-C2D-C3D | -2.23 | 122.48 | 127.61 |
| 21 | B | 1214 | CLA | CHA-C1A-NA | -2.23 | 121.29 | 126.40 |
| 21 | 1 | 1111 | CLA | C3D-C2D-C1D | -2.23 | 102.79 | 105.83 |
| 21 | a | 1134 | CLA | CMD-C2D-C3D | -2.23 | 122.48 | 127.61 |
| 24 | A | 4002 | BCR | C12-C13-C14 | -2.23 | 115.52 | 118.94 |
| 21 | A | 1130 | CLA | CAA-C2A-C3A | -2.23 | 106.67 | 112.78 |
| 24 | l | 4022 | BCR | C19-C18-C17 | 2.23 | 122.36 | 118.94 |
| 21 | a | 1013 | CLA | O2A-CGA-CBA | 2.23 | 118.90 | 111.91 |
| 21 | a | 1138 | CLA | C3D-C2D-C1D | -2.23 | 102.79 | 105.83 |
| 21 | B | 1022 | CLA | O2A-CGA-CBA | 2.23 | 118.90 | 111.91 |
| 21 | 2 | 1206 | CLA | CMD-C2D-C3D | -2.23 | 122.49 | 127.61 |
| 21 | A | 1104 | CLA | CMB-C2B-C1B | -2.23 | 125.04 | 128.46 |
| 21 | b | 1021 | CLA | C1D-ND-C4D | -2.23 | 104.75 | 106.33 |
| 21 | 1 | 1139 | CLA | C3D-C2D-C1D | -2.23 | 102.79 | 105.83 |
| 24 | b | 4017 | BCR | C15-C14-C13 | 2.23 | 130.49 | 127.31 |
| 21 | 1 | 1140 | CLA | CMD-C2D-C3D | -2.23 | 122.49 | 127.61 |
| 21 | 1 | 1112 | CLA | CHA-C1A-NA | -2.23 | 121.30 | 126.40 |
| 21 | b | 1205 | CLA | O2D-CGD-O1D | -2.23 | 119.48 | 123.84 |
| 21 | b | 1213 | CLA | CAA-C2A-C3A | -2.23 | 106.68 | 112.78 |
| 26 | K | 5009 | LMG | O7-C10-O9 | -2.23 | 118.32 | 123.70 |
| 21 | b | 1234 | CLA | O2D-CGD-O1D | -2.22 | 119.49 | 123.84 |
| 21 | 2 | 1236 | CLA | CHA-C1A-NA | -2.22 | 121.30 | 126.40 |
| 21 | 1 | 1134 | CLA | CMD-C2D-C3D | -2.22 | 122.50 | 127.61 |
| 21 | b | 1203 | CLA | CMA-C3A-C4A | 2.22 | 117.75 | 111.77 |
| 21 | a | 1125 | CLA | OBD-CAD-C3D | -2.22 | 123.17 | 128.52 |
| 21 | b | 1221 | CLA | O2A-CGA-CBA | 2.22 | 118.89 | 111.91 |
| 21 | B | 1209 | CLA | C3D-C2D-C1D | -2.22 | 102.80 | 105.83 |
| 21 | 1 | 1120 | CLA | C3D-C2D-C1D | -2.22 | 102.80 | 105.83 |
| 26 | K | 5009 | LMG | O6-C1-C2 | 2.22 | 115.06 | 110.35 |
| 21 | 7 | 1302 | CLA | CMD-C2D-C3D | -2.22 | 122.50 | 127.61 |
| 21 | 2 | 1209 | CLA | CHA-C1A-NA | -2.22 | 121.31 | 126.40 |
| 26 | A | 5002 | LMG | O1-C1-C2 | 2.22 | 111.77 | 108.30 |
| 21 | A | 1104 | CLA | O2A-CGA-CBA | 2.22 | 118.88 | 111.91 |
| 21 | A | 1103 | CLA | CAA-CBA-CGA | -2.22 | 106.76 | 113.25 |
| 28 | h | 4020 | 45D | C42-C41-C37 | -2.22 | 118.92 | 123.47 |
| 24 | a | 4008 | BCR | C37-C22-C23 | 2.22 | 121.58 | 118.08 |
| 21 | l | 1503 | CLA | CMB-C2B-C1B | -2.22 | 125.05 | 128.46 |
| 21 | B | 1220 | CLA | C3D-C2D-C1D | -2.22 | 102.80 | 105.83 |
| 21 | B | 1238 | CLA | C3D-C2D-C1D | -2.22 | 102.80 | 105.83 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | a | 1126 | CLA | C3D-C2D-C1D | -2.22 | 102.80 | 105.83 |
| 21 | 2 | 1240 | CLA | CHA-C1A-NA | -2.22 | 121.31 | 126.40 |
| 21 | A | 1126 | CLA | CMA-C3A-C4A | 2.22 | 117.74 | 111.77 |
| 21 | a | 1139 | CLA | CHA-C1A-NA | -2.22 | 121.31 | 126.40 |
| 21 | 1 | 1114 | CLA | CHA-C1A-NA | -2.22 | 121.31 | 126.40 |
| 21 | k | 1402 | CLA | CMD-C2D-C3D | -2.22 | 122.51 | 127.61 |
| 21 | 0 | 1502 | CLA | CHA-C4D-ND | 2.22 | 137.14 | 132.50 |
| 24 | b | 4005 | BCR | C35-C13-C12 | 2.22 | 121.57 | 118.08 |
| 21 | f | 1302 | CLA | O2A-CGA-CBA | 2.22 | 118.87 | 111.91 |
| 21 | 1 | 1120 | CLA | CHA-C1A-NA | -2.22 | 121.32 | 126.40 |
| 21 | 2 | 1228 | CLA | CHA-C1A-NA | -2.22 | 121.32 | 126.40 |
| 21 | B | 1221 | CLA | CMD-C2D-C3D | -2.22 | 122.51 | 127.61 |
| 21 | 2 | 1219 | CLA | CBA-CAA-C2A | 2.22 | 120.41 | 113.86 |
| 21 | A | 1121 | CLA | C3D-C2D-C1D | -2.22 | 102.81 | 105.83 |
| 24 | 1 | 4001 | BCR | C30-C25-C26 | -2.22 | 119.49 | 122.61 |
| 21 | 2 | 1234 | CLA | CMB-C2B-C3B | 2.22 | 128.82 | 124.68 |
| 24 | a | 4008 | BCR | C34-C9-C10 | -2.22 | 119.82 | 122.92 |
| 21 | B | 1207 | CLA | CAC-C3C-C4C | -2.22 | 121.94 | 124.81 |
| 21 | 1 | 1501 | CLA | CMB-C2B-C3B | 2.22 | 128.82 | 124.68 |
| 21 | 1 | 1119 | CLA | CMD-C2D-C3D | -2.22 | 122.52 | 127.61 |
| 21 | B | 1023 | CLA | CHA-C1A-NA | -2.21 | 121.33 | 126.40 |
| 21 | b | 1226 | CLA | CHA-C1A-NA | -2.21 | 121.33 | 126.40 |
| 21 | A | 1012 | CLA | C3D-C2D-C1D | -2.21 | 102.81 | 105.83 |
| 21 | A | 1123 | CLA | C1D-ND-C4D | -2.21 | 104.76 | 106.33 |
| 21 | B | 1226 | CLA | O2A-CGA-CBA | 2.21 | 118.86 | 111.91 |
| 21 | a | 1135 | CLA | CMD-C2D-C3D | -2.21 | 122.52 | 127.61 |
| 21 | b | 1228 | CLA | CMD-C2D-C3D | -2.21 | 122.52 | 127.61 |
| 24 | B | 4004 | BCR | C36-C18-C19 | -2.21 | 114.59 | 118.08 |
| 21 | K | 1402 | CLA | C3D-C2D-C1D | -2.21 | 102.81 | 105.83 |
| 21 | 1 | 1112 | CLA | CMD-C2D-C3D | -2.21 | 122.52 | 127.61 |
| 21 | 1 | 1118 | CLA | O2A-CGA-CBA | 2.21 | 118.85 | 111.91 |
| 21 | 2 | 1230 | CLA | C3D-C2D-C1D | -2.21 | 102.81 | 105.83 |
| 30 | b | 4006 | ECH | C8-C7-C6 | -2.21 | 120.99 | 127.20 |
| 21 | 1 | 1118 | CLA | CMB-C2B-C3B | 2.21 | 128.82 | 124.68 |
| 28 | B | 4011 | 45D | C10-C18-C16 | 2.21 | 120.70 | 118.65 |
| 21 | A | 1107 | CLA | CAA-C2A-C3A | -2.21 | 106.72 | 112.78 |
| 24 | a | 4019 | BCR | C37-C22-C23 | 2.21 | 121.56 | 118.08 |
| 24 | 7 | 4013 | BCR | C19-C18-C17 | 2.21 | 122.34 | 118.94 |
| 21 | a | 1126 | CLA | O2A-CGA-CBA | 2.21 | 118.85 | 111.91 |
| 21 | 2 | 1232 | CLA | CMD-C2D-C3D | -2.21 | 122.53 | 127.61 |
| 21 | B | 1214 | CLA | C3D-C2D-C1D | -2.21 | 102.81 | 105.83 |
| 21 | 2 | 1220 | CLA | CHA-C1A-NA | -2.21 | 121.33 | 126.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | a | 1127 | CLA | C3D-C2D-C1D | -2.21 | 102.81 | 105.83 |
| 24 | a | 4001 | BCR | C2-C1-C6 | 2.21 | 113.88 | 110.48 |
| 21 | a | 1013 | CLA | CMB-C2B-C3B | 2.21 | 128.81 | 124.68 |
| 24 | B | 4010 | BCR | C35-C13-C12 | 2.21 | 121.56 | 118.08 |
| 21 | f | 1302 | CLA | C3D-C2D-C1D | -2.21 | 102.82 | 105.83 |
| 21 | 1 | 1135 | CLA | O2A-CGA-CBA | 2.21 | 118.84 | 111.91 |
| 21 | 1 | 1138 | CLA | O2A-CGA-CBA | 2.21 | 118.84 | 111.91 |
| 21 | 1 | 1012 | CLA | CMA-C3A-C4A | 2.21 | 117.71 | 111.77 |
| 21 | f | 1301 | CLA | C3D-C2D-C1D | -2.21 | 102.82 | 105.83 |
| 21 | 1 | 1114 | CLA | C3D-C2D-C1D | -2.21 | 102.82 | 105.83 |
| 21 | 2 | 1211 | CLA | O2A-CGA-CBA | 2.21 | 118.84 | 111.91 |
| 34 | 7 | 4015 | ZEX | C11-C12-C13 | -2.21 | 120.21 | 126.42 |
| 21 | a | 1108 | CLA | C3D-C2D-C1D | -2.21 | 102.82 | 105.83 |
| 21 | 1 | 1118 | CLA | C3D-C2D-C1D | -2.21 | 102.82 | 105.83 |
| 21 | 2 | 1208 | CLA | O2A-CGA-CBA | 2.21 | 118.84 | 111.91 |
| 31 | F | 5001 | SQD | O3-C3-C2 | -2.21 | 105.25 | 110.35 |
| 21 | 1 | 1112 | CLA | C1-O2A-CGA | 2.21 | 122.23 | 116.44 |
| 24 | 2 | 4017 | BCR | C30-C25-C26 | -2.21 | 119.50 | 122.61 |
| 21 | B | 1221 | CLA | CMB-C2B-C1B | -2.21 | 125.07 | 128.46 |
| 21 | b | 1231 | CLA | O2A-CGA-CBA | 2.21 | 118.83 | 111.91 |
| 21 | a | 1139 | CLA | C3D-C2D-C1D | -2.21 | 102.82 | 105.83 |
| 21 | B | 1237 | CLA | CMB-C2B-C3B | 2.21 | 128.80 | 124.68 |
| 21 | A | 1114 | CLA | CHA-C1A-NA | -2.21 | 121.35 | 126.40 |
| 21 | a | 1102 | CLA | C3D-C2D-C1D | -2.20 | 102.82 | 105.83 |
| 21 | a | 1115 | CLA | C3D-C2D-C1D | -2.20 | 102.82 | 105.83 |
| 21 | b | 1202 | CLA | C3D-C2D-C1D | -2.20 | 102.82 | 105.83 |
| 24 | b | 4010 | BCR | C39-C30-C25 | -2.20 | 106.72 | 110.30 |
| 21 | 2 | 1021 | CLA | CHA-C1A-NA | -2.20 | 121.35 | 126.40 |
| 21 | b | 1213 | CLA | CMA-C3A-C4A | 2.20 | 117.70 | 111.77 |
| 21 | 2 | 1204 | CLA | CMD-C2D-C3D | -2.20 | 122.54 | 127.61 |
| 21 | 2 | 1213 | CLA | CMD-C2D-C3D | -2.20 | 122.54 | 127.61 |
| 31 | L | 5001 | SQD | O3-C3-C2 | -2.20 | 105.25 | 110.35 |
| 21 | 8 | 1402 | CLA | CHA-C1A-NA | -2.20 | 121.35 | 126.40 |
| 21 | a | 1801 | CLA | CHA-C1A-NA | -2.20 | 121.35 | 126.40 |
| 24 | 2 | 4018 | BCR | C15-C14-C13 | 2.20 | 130.46 | 127.31 |
| 21 | 1 | 1112 | CLA | C3D-C2D-C1D | -2.20 | 102.82 | 105.83 |
| 21 | 1 | 1104 | CLA | O2A-CGA-CBA | 2.20 | 118.82 | 111.91 |
| 21 | 2 | 1240 | CLA | CMD-C2D-C3D | -2.20 | 122.55 | 127.61 |
| 21 | A | 1129 | CLA | C3D-C2D-C1D | -2.20 | 102.83 | 105.83 |
| 21 | a | 1132 | CLA | CMA-C3A-C4A | 2.20 | 117.69 | 111.77 |
| 24 | 9 | 4021 | BCR | C38-C26-C27 | 2.20 | 117.84 | 113.62 |
| 21 | 8 | 1401 | CLA | CHA-C1A-NA | -2.20 | 121.36 | 126.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | b | 1201 | CLA | C3D-C2D-C1D | -2.20 | 102.83 | 105.83 |
| 21 | 2 | 1235 | CLA | C3D-C2D-C1D | -2.20 | 102.83 | 105.83 |
| 24 | 1 | 4012 | BCR | C8-C9-C10 | 2.20 | 122.32 | 118.94 |
| 21 | 2 | 1232 | CLA | C3D-C2D-C1D | -2.20 | 102.83 | 105.83 |
| 21 | 2 | 1238 | CLA | C3D-C2D-C1D | -2.20 | 102.83 | 105.83 |
| 24 | 2 | 4010 | BCR | C40-C30-C25 | -2.20 | 106.73 | 110.30 |
| 21 | L | 1503 | CLA | C6-C7-C8 | -2.20 | 108.81 | 115.92 |
| 24 | 1 | 4002 | BCR | C29-C28-C27 | 2.20 | 116.29 | 111.38 |
| 21 | B | 1218 | CLA | CHA-C1A-NA | -2.20 | 121.36 | 126.40 |
| 21 | A | 1116 | CLA | O2A-CGA-CBA | 2.20 | 118.81 | 111.91 |
| 24 | i | 4018 | BCR | C2-C1-C6 | 2.20 | 113.87 | 110.48 |
| 28 | B | 4011 | 45D | C41-C42-C38 | -2.20 | 118.97 | 123.47 |
| 21 | 2 | 1222 | CLA | CMD-C2D-C3D | -2.20 | 122.56 | 127.61 |
| 21 | a | 1126 | CLA | CMD-C2D-C3D | -2.20 | 122.56 | 127.61 |
| 21 | 1 | 1116 | CLA | CMD-C2D-C3D | -2.20 | 122.56 | 127.61 |
| 24 | 6 | 4016 | BCR | C15-C14-C13 | 2.20 | 130.45 | 127.31 |
| 21 | 8 | 1401 | CLA | CMD-C2D-C3D | -2.20 | 122.56 | 127.61 |
| 21 | B | 1021 | CLA | CHA-C1A-NA | -2.20 | 121.37 | 126.40 |
| 21 | a | 1104 | CLA | CHA-C1A-NA | -2.20 | 121.37 | 126.40 |
| 21 | a | 1133 | CLA | CHA-C1A-NA | -2.20 | 121.37 | 126.40 |
| 21 | a | 1111 | CLA | CAC-C3C-C4C | 2.20 | 127.66 | 124.81 |
| 21 | J | 1303 | CLA | CHA-C1A-NA | -2.19 | 121.37 | 126.40 |
| 21 | a | 1134 | CLA | CHA-C1A-NA | -2.19 | 121.37 | 126.40 |
| 21 | f | 1301 | CLA | CHA-C1A-NA | -2.19 | 121.37 | 126.40 |
| 21 | A | 1108 | CLA | C3D-C2D-C1D | -2.19 | 102.84 | 105.83 |
| 21 | 2 | 1239 | CLA | C3D-C2D-C1D | -2.19 | 102.84 | 105.83 |
| 21 | b | 1222 | CLA | CMB-C2B-C1B | -2.19 | 125.09 | 128.46 |
| 25 | l | 5003 | LHG | C5-O7-C7 | -2.19 | 112.39 | 117.79 |
| 24 | 1 | 4001 | BCR | C29-C28-C27 | 2.19 | 116.28 | 111.38 |
| 21 | A | 1102 | CLA | C3D-C2D-C1D | -2.19 | 102.84 | 105.83 |
| 21 | a | 1137 | CLA | CHA-C1A-NA | -2.19 | 121.38 | 126.40 |
| 21 | A | 1134 | CLA | CMB-C2B-C1B | -2.19 | 125.09 | 128.46 |
| 21 | b | 1231 | CLA | C3D-C2D-C1D | -2.19 | 102.84 | 105.83 |
| 21 | F | 1302 | CLA | CHA-C1A-NA | -2.19 | 121.38 | 126.40 |
| 21 | A | 1135 | CLA | CHA-C1A-NA | -2.19 | 121.38 | 126.40 |
| 21 | a | 1102 | CLA | CHA-C1A-NA | -2.19 | 121.38 | 126.40 |
| 21 | 1 | 1132 | CLA | O2A-CGA-CBA | 2.19 | 118.78 | 111.91 |
| 21 | B | 1216 | CLA | O2A-CGA-CBA | 2.19 | 118.78 | 111.91 |
| 21 | 1 | 1118 | CLA | CHA-C1A-NA | -2.19 | 121.38 | 126.40 |
| 24 | 2 | 4018 | BCR | C10-C11-C12 | -2.19 | 116.39 | 123.22 |
| 21 | 1 | 1123 | CLA | CMD-C2D-C3D | -2.19 | 122.58 | 127.61 |
| 21 | a | 1105 | CLA | CMD-C2D-C3D | -2.19 | 122.58 | 127.61 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | B | 1023 | CLA | CAC-C3C-C4C | 2.19 | 127.65 | 124.81 |
| 21 | 1 | 1128 | CLA | CHA-C1A-NA | -2.19 | 121.39 | 126.40 |
| 21 | A | 1137 | CLA | C3D-C2D-C1D | -2.19 | 102.84 | 105.83 |
| 21 | a | 1114 | CLA | C3D-C2D-C1D | -2.19 | 102.84 | 105.83 |
| 21 | b | 1224 | CLA | C3D-C2D-C1D | -2.19 | 102.84 | 105.83 |
| 24 | a | 4002 | BCR | C31-C1-C6 | -2.19 | 106.75 | 110.30 |
| 21 | 1 | 1131 | CLA | O2A-CGA-CBA | 2.19 | 118.77 | 111.91 |
| 21 | A | 1118 | CLA | CHA-C1A-NA | -2.19 | 121.39 | 126.40 |
| 21 | 1 | 1140 | CLA | CHA-C1A-NA | -2.19 | 121.39 | 126.40 |
| 21 | A | 1130 | CLA | CMA-C3A-C4A | 2.19 | 117.65 | 111.77 |
| 21 | A | 1801 | CLA | C3D-C2D-C1D | -2.19 | 102.85 | 105.83 |
| 21 | B | 1215 | CLA | C3D-C2D-C1D | -2.19 | 102.85 | 105.83 |
| 21 | b | 1023 | CLA | CMD-C2D-C3D | -2.19 | 122.59 | 127.61 |
| 21 | B | 1213 | CLA | C1-O2A-CGA | 2.19 | 122.18 | 116.44 |
| 21 | 1 | 1106 | CLA | C3D-C2D-C1D | -2.19 | 102.85 | 105.83 |
| 21 | 2 | 1224 | CLA | CMB-C2B-C3B | 2.18 | 128.77 | 124.68 |
| 21 | b | 1239 | CLA | C3D-C2D-C1D | -2.18 | 102.85 | 105.83 |
| 21 | 1 | 1011 | CLA | C3D-C2D-C1D | -2.18 | 102.85 | 105.83 |
| 24 | A | 4002 | BCR | C38-C26-C27 | 2.18 | 117.81 | 113.62 |
| 24 | b | 4014 | BCR | C8-C9-C10 | 2.18 | 122.29 | 118.94 |
| 24 | B | 4018 | BCR | C40-C30-C25 | -2.18 | 106.76 | 110.30 |
| 21 | J | 1302 | CLA | CHA-C1A-NA | -2.18 | 121.40 | 126.40 |
| 21 | 2 | 1238 | CLA | C1-O2A-CGA | 2.18 | 122.17 | 116.44 |
| 24 | 1 | 4002 | BCR | C37-C22-C23 | 2.18 | 121.52 | 118.08 |
| 21 | B | 1232 | CLA | CMD-C2D-C3D | -2.18 | 122.59 | 127.61 |
| 21 | b | 1209 | CLA | C3D-C2D-C1D | -2.18 | 102.85 | 105.83 |
| 21 | A | 1011 | CLA | C2A-C3A-C4A | 2.18 | 105.39 | 101.87 |
| 21 | a | 1120 | CLA | C1-O2A-CGA | 2.18 | 122.17 | 116.44 |
| 21 | b | 1237 | CLA | CAC-C3C-C4C | 2.18 | 127.64 | 124.81 |
| 21 | k | 1402 | CLA | CHA-C1A-NA | -2.18 | 121.40 | 126.40 |
| 24 | B | 4010 | BCR | C40-C30-C25 | -2.18 | 106.76 | 110.30 |
| 21 | L | 1501 | CLA | CMB-C2B-C1B | -2.18 | 125.11 | 128.46 |
| 21 | b | 1228 | CLA | C3D-C2D-C1D | -2.18 | 102.85 | 105.83 |
| 21 | a | 1129 | CLA | CHA-C1A-NA | -2.18 | 121.40 | 126.40 |
| 24 | A | 4001 | BCR | C29-C28-C27 | 2.18 | 116.25 | 111.38 |
| 21 | 1 | 1130 | CLA | C3D-C2D-C1D | -2.18 | 102.86 | 105.83 |
| 21 | 2 | 1213 | CLA | C3D-C2D-C1D | -2.18 | 102.86 | 105.83 |
| 21 | A | 1113 | CLA | O2D-CGD-O1D | -2.18 | 119.58 | 123.84 |
| 21 | A | 1130 | CLA | CMB-C2B-C1B | -2.18 | 125.11 | 128.46 |
| 21 | a | 1123 | CLA | O2A-CGA-CBA | 2.18 | 118.75 | 111.91 |
| 21 | B | 1240 | CLA | CHA-C1A-NA | -2.18 | 121.41 | 126.40 |
| 21 | A | 1116 | CLA | C3D-C2D-C1D | -2.18 | 102.86 | 105.83 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | A | 1122 | CLA | CHA-C1A-NA | -2.18 | 121.41 | 126.40 |
| 21 | B | 1218 | CLA | O2A-CGA-CBA | 2.18 | 118.74 | 111.91 |
| 21 | B | 1231 | CLA | CMA-C3A-C4A | 2.18 | 117.63 | 111.77 |
| 21 | A | 1133 | CLA | C1-C2-C3 | -2.18 | 122.28 | 126.04 |
| 21 | a | 1114 | CLA | CMD-C2D-C3D | -2.18 | 122.61 | 127.61 |
| 21 | a | 1113 | CLA | CMD-C2D-C3D | -2.18 | 122.61 | 127.61 |
| 24 | a | 4001 | BCR | C23-C24-C25 | 2.18 | 133.32 | 127.20 |
| 21 | B | 1021 | CLA | O2A-CGA-CBA | 2.18 | 118.74 | 111.91 |
| 24 | i | 4018 | BCR | C34-C9-C10 | -2.18 | 119.87 | 122.92 |
| 21 | l | 1105 | CLA | C3D-C2D-C1D | -2.18 | 102.86 | 105.83 |
| 21 | a | 1125 | CLA | CHA-C1A-NA | -2.18 | 121.41 | 126.40 |
| 21 | b | 1215 | CLA | CMA-C3A-C4A | 2.18 | 117.62 | 111.77 |
| 21 | a | 1108 | CLA | C1-O2A-CGA | 2.18 | 122.15 | 116.44 |
| 21 | B | 1223 | CLA | CHA-C1A-NA | -2.17 | 121.42 | 126.40 |
| 21 | B | 1021 | CLA | C1D-ND-C4D | -2.17 | 104.79 | 106.33 |
| 21 | b | 1238 | CLA | C3D-C2D-C1D | -2.17 | 102.86 | 105.83 |
| 21 | l | 1502 | CLA | O2A-CGA-CBA | 2.17 | 118.73 | 111.91 |
| 21 | b | 1238 | CLA | CHA-C1A-NA | -2.17 | 121.42 | 126.40 |
| 21 | B | 1226 | CLA | CAC-C3C-C4C | 2.17 | 127.63 | 124.81 |
| 21 | 7 | 1303 | CLA | C3D-C2D-C1D | -2.17 | 102.86 | 105.83 |
| 21 | a | 1122 | CLA | C3D-C2D-C1D | -2.17 | 102.87 | 105.83 |
| 21 | l | 1503 | CLA | C3D-C2D-C1D | -2.17 | 102.87 | 105.83 |
| 21 | a | 1137 | CLA | CMA-C3A-C4A | 2.17 | 117.61 | 111.77 |
| 21 | b | 1228 | CLA | O2A-CGA-CBA | 2.17 | 118.72 | 111.91 |
| 21 | A | 1125 | CLA | C1-O2A-CGA | 2.17 | 122.14 | 116.44 |
| 21 | 2 | 1217 | CLA | CHA-C1A-NA | -2.17 | 121.42 | 126.40 |
| 22 | 1 | 2001 | PQN | C12-C11-C3 | -2.17 | 106.19 | 112.05 |
| 25 | 1 | 5001 | LHG | C6-C5-C4 | -2.17 | 106.65 | 111.79 |
| 21 | a | 1011 | CLA | C1D-ND-C4D | -2.17 | 104.79 | 106.33 |
| 21 | 2 | 1204 | CLA | C3D-C2D-C1D | -2.17 | 102.87 | 105.83 |
| 21 | b | 1229 | CLA | O2A-CGA-CBA | 2.17 | 118.72 | 111.91 |
| 21 | 1 | 1104 | CLA | CMD-C2D-C3D | -2.17 | 122.62 | 127.61 |
| 21 | 2 | 1237 | CLA | CMD-C2D-C3D | -2.17 | 122.62 | 127.61 |
| 21 | J | 1303 | CLA | CMB-C2B-C1B | -2.17 | 125.13 | 128.46 |
| 21 | A | 1011 | CLA | CMD-C2D-C3D | -2.17 | 122.62 | 127.61 |
| 24 | A | 4019 | BCR | C37-C22-C23 | 2.17 | 121.50 | 118.08 |
| 21 | 1 | 1117 | CLA | CMD-C2D-C3D | -2.17 | 122.62 | 127.61 |
| 21 | b | 1234 | CLA | C3D-C2D-C1D | -2.17 | 102.87 | 105.83 |
| 30 | b | 4011 | ECH | C7-C6-C5 | -2.17 | 116.21 | 121.46 |
| 21 | A | 1111 | CLA | O2D-CGD-O1D | -2.17 | 119.60 | 123.84 |
| 21 | 1 | 1115 | CLA | C3D-C2D-C1D | -2.17 | 102.87 | 105.83 |
| 21 | B | 1214 | CLA | CMD-C2D-C3D | -2.17 | 122.63 | 127.61 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | 2 | 1214 | CLA | O2A-CGA-CBA | 2.17 | 118.71 | 111.91 |
| 21 | B | 1202 | CLA | C3D-C2D-C1D | -2.17 | 102.87 | 105.83 |
| 21 | a | 1119 | CLA | C3D-C2D-C1D | -2.17 | 102.87 | 105.83 |
| 21 | 6 | 1301 | CLA | CMB-C2B-C3B | 2.17 | 128.73 | 124.68 |
| 21 | 2 | 1223 | CLA | CHA-C1A-NA | -2.17 | 121.44 | 126.40 |
| 21 | 2 | 1202 | CLA | O2D-CGD-O1D | -2.17 | 119.60 | 123.84 |
| 21 | K | 1402 | CLA | CMD-C2D-C3D | -2.17 | 122.63 | 127.61 |
| 21 | a | 1112 | CLA | CHA-C1A-NA | -2.17 | 121.44 | 126.40 |
| 21 | b | 1209 | CLA | CMD-C2D-C3D | -2.17 | 122.63 | 127.61 |
| 24 | a | 4012 | BCR | C37-C22-C23 | 2.17 | 121.49 | 118.08 |
| 21 | A | 1136 | CLA | O2A-CGA-CBA | 2.17 | 118.70 | 111.91 |
| 21 | 2 | 1231 | CLA | CHA-C1A-NA | -2.17 | 121.44 | 126.40 |
| 21 | a | 1133 | CLA | C3D-C2D-C1D | -2.17 | 102.88 | 105.83 |
| 21 | A | 1122 | CLA | CMD-C2D-C3D | -2.17 | 122.63 | 127.61 |
| 21 | 1 | 1138 | CLA | CMD-C2D-C3D | -2.17 | 122.63 | 127.61 |
| 21 | 2 | 1209 | CLA | CMD-C2D-C3D | -2.17 | 122.63 | 127.61 |
| 21 | 2 | 1201 | CLA | C1D-ND-C4D | -2.17 | 104.80 | 106.33 |
| 21 | A | 1132 | CLA | CHA-C1A-NA | -2.16 | 121.44 | 126.40 |
| 21 | b | 1022 | CLA | CHA-C1A-NA | -2.16 | 121.44 | 126.40 |
| 21 | 1 | 1102 | CLA | CHA-C1A-NA | -2.16 | 121.44 | 126.40 |
| 21 | 2 | 1201 | CLA | CHA-C1A-NA | -2.16 | 121.44 | 126.40 |
| 21 | B | 1206 | CLA | CHA-C1A-NA | -2.16 | 121.44 | 126.40 |
| 21 | a | 1111 | CLA | C3D-C2D-C1D | -2.16 | 102.88 | 105.83 |
| 24 | h | 4018 | BCR | C30-C25-C26 | -2.16 | 119.57 | 122.61 |
| 21 | 2 | 1206 | CLA | CHA-C1A-NA | -2.16 | 121.44 | 126.40 |
| 21 | a | 1128 | CLA | O2D-CGD-O1D | -2.16 | 119.61 | 123.84 |
| 21 | b | 1209 | CLA | CHA-C1A-NA | -2.16 | 121.44 | 126.40 |
| 21 | b | 1022 | CLA | C3D-C2D-C1D | -2.16 | 102.88 | 105.83 |
| 21 | 2 | 1206 | CLA | C3D-C2D-C1D | -2.16 | 102.88 | 105.83 |
| 21 | a | 1013 | CLA | O2D-CGD-O1D | -2.16 | 119.61 | 123.84 |
| 21 | b | 1023 | CLA | CMA-C3A-C4A | 2.16 | 117.59 | 111.77 |
| 21 | A | 1113 | CLA | CHA-C1A-NA | -2.16 | 121.45 | 126.40 |
| 21 | a | 1132 | CLA | CHA-C1A-NA | -2.16 | 121.45 | 126.40 |
| 21 | j | 1303 | CLA | CHA-C1A-NA | -2.16 | 121.45 | 126.40 |
| 21 | f | 1301 | CLA | CMD-C2D-C3D | -2.16 | 122.64 | 127.61 |
| 21 | b | 1232 | CLA | CMB-C2B-C3B | 2.16 | 128.72 | 124.68 |
| 24 | h | 4018 | BCR | C32-C1-C6 | -2.16 | 106.80 | 110.30 |
| 21 | A | 1105 | CLA | CHA-C1A-NA | -2.16 | 121.45 | 126.40 |
| 24 | A | 4007 | BCR | C35-C13-C12 | 2.16 | 121.48 | 118.08 |
| 21 | a | 1109 | CLA | C3D-C2D-C1D | -2.16 | 102.88 | 105.83 |
| 21 | 2 | 1208 | CLA | CMD-C2D-C3D | -2.16 | 122.65 | 127.61 |
| 21 | b | 1217 | CLA | CMD-C2D-C3D | -2.16 | 122.65 | 127.61 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 24 | l | 4022 | BCR | C34-C9-C10 | -2.16 | 119.90 | 122.92 |
| 21 | A | 1114 | CLA | C3D-C2D-C1D | -2.16 | 102.89 | 105.83 |
| 21 | 1 | 1116 | CLA | C3D-C2D-C1D | -2.16 | 102.89 | 105.83 |
| 21 | 1 | 1124 | CLA | CHA-C1A-NA | -2.16 | 121.46 | 126.40 |
| 21 | 2 | 1229 | CLA | C1-O2A-CGA | 2.16 | 122.11 | 116.44 |
| 21 | A | 1136 | CLA | C3D-C2D-C1D | -2.16 | 102.89 | 105.83 |
| 24 | 7 | 4013 | BCR | C30-C25-C24 | 2.16 | 121.88 | 115.78 |
| 34 | F | 4016 | ZEX | C31-C32-C33 | -2.16 | 120.36 | 126.42 |
| 21 | 2 | 1217 | CLA | O2A-CGA-CBA | 2.16 | 118.68 | 111.91 |
| 21 | A | 1138 | CLA | CMD-C2D-C3D | -2.16 | 122.65 | 127.61 |
| 21 | B | 1238 | CLA | CHA-C4D-ND | 2.16 | 137.01 | 132.50 |
| 25 | 1 | 5005 | LHG | O7-C7-O9 | -2.16 | 118.49 | 123.70 |
| 21 | a | 1111 | CLA | CHA-C1A-NA | -2.16 | 121.46 | 126.40 |
| 30 | B | 4006 | ECH | C19-C18-C17 | 2.16 | 122.25 | 118.94 |
| 21 | 2 | 1225 | CLA | O2A-CGA-CBA | 2.16 | 118.67 | 111.91 |
| 24 | j | 4013 | BCR | C24-C25-C26 | -2.16 | 116.24 | 121.46 |
| 21 | a | 1113 | CLA | CHA-C1A-NA | -2.16 | 121.46 | 126.40 |
| 24 | 8 | 4001 | BCR | C38-C26-C25 | -2.16 | 122.11 | 124.53 |
| 24 | A | 4007 | BCR | C15-C14-C13 | 2.15 | 130.38 | 127.31 |
| 24 | K | 4001 | BCR | C39-C30-C25 | -2.15 | 106.81 | 110.30 |
| 24 | l | 4019 | BCR | C35-C13-C12 | 2.15 | 121.47 | 118.08 |
| 21 | 1 | 1138 | CLA | CHA-C1A-NA | -2.15 | 121.47 | 126.40 |
| 21 | a | 1106 | CLA | CMD-C2D-C3D | -2.15 | 122.66 | 127.61 |
| 21 | B | 1224 | CLA | CMA-C3A-C4A | 2.15 | 117.56 | 111.77 |
| 21 | b | 1226 | CLA | O2A-CGA-CBA | 2.15 | 118.67 | 111.91 |
| 24 | b | 4005 | BCR | C24-C25-C26 | -2.15 | 116.25 | 121.46 |
| 21 | F | 1301 | CLA | C3D-C2D-C1D | -2.15 | 102.89 | 105.83 |
| 21 | K | 1401 | CLA | CHA-C1A-NA | -2.15 | 121.47 | 126.40 |
| 24 | 2 | 4014 | BCR | C37-C22-C23 | 2.15 | 121.47 | 118.08 |
| 21 | a | 1102 | CLA | CMD-C2D-C3D | -2.15 | 122.66 | 127.61 |
| 21 | A | 1130 | CLA | O2D-CGD-O1D | -2.15 | 119.63 | 123.84 |
| 21 | a | 1135 | CLA | O2A-CGA-CBA | 2.15 | 118.66 | 111.91 |
| 24 | k | 4001 | BCR | C34-C9-C10 | -2.15 | 119.91 | 122.92 |
| 21 | 2 | 1202 | CLA | CMB-C2B-C1B | -2.15 | 125.16 | 128.46 |
| 31 | b | 5006 | SQD | O3-C3-C2 | -2.15 | 105.38 | 110.35 |
| 21 | a | 1105 | CLA | C3D-C2D-C1D | -2.15 | 102.89 | 105.83 |
| 21 | A | 1013 | CLA | CHA-C1A-NA | -2.15 | 121.47 | 126.40 |
| 21 | b | 1223 | CLA | CHA-C1A-NA | -2.15 | 121.47 | 126.40 |
| 24 | 1 | 4008 | BCR | C39-C30-C25 | -2.15 | 106.81 | 110.30 |
| 24 | 2 | 4017 | BCR | C35-C13-C12 | 2.15 | 121.47 | 118.08 |
| 21 | A | 1011 | CLA | O2A-CGA-CBA | 2.15 | 118.66 | 111.91 |
| 21 | A | 1135 | CLA | C3D-C2D-C1D | -2.15 | 102.90 | 105.83 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | B | 1212 | CLA | CHA-C1A-NA | -2.15 | 121.48 | 126.40 |
| 21 | 2 | 1221 | CLA | CHA-C1A-NA | -2.15 | 121.48 | 126.40 |
| 21 | 2 | 1227 | CLA | C3D-C2D-C1D | -2.15 | 102.90 | 105.83 |
| 21 | A | 1135 | CLA | CMD-C2D-C3D | -2.15 | 122.67 | 127.61 |
| 21 | 1 | 1501 | CLA | CMD-C2D-C3D | -2.15 | 122.67 | 127.61 |
| 21 | 2 | 1231 | CLA | CMD-C2D-C3D | -2.15 | 122.67 | 127.61 |
| 21 | 2 | 1217 | CLA | CAC-C3C-C4C | 2.15 | 127.60 | 124.81 |
| 21 | b | 1218 | CLA | CHA-C1A-NA | -2.15 | 121.48 | 126.40 |
| 21 | a | 1117 | CLA | CMD-C2D-C3D | -2.15 | 122.67 | 127.61 |
| 22 | A | 2001 | PQN | C17-C16-C15 | -2.15 | 107.53 | 113.36 |
| 21 | F | 1301 | CLA | O2A-CGA-CBA | 2.15 | 118.64 | 111.91 |
| 24 | i | 4018 | BCR | C15-C14-C13 | 2.15 | 130.37 | 127.31 |
| 21 | 2 | 1218 | CLA | CHA-C1A-NA | -2.15 | 121.48 | 126.40 |
| 21 | b | 1219 | CLA | C3D-C2D-C1D | -2.15 | 102.90 | 105.83 |
| 21 | 2 | 1215 | CLA | CHA-C1A-NA | -2.15 | 121.48 | 126.40 |
| 21 | 1 | 1139 | CLA | CMD-C2D-C3D | -2.14 | 122.68 | 127.61 |
| 21 | 6 | 1301 | CLA | O2A-CGA-CBA | 2.14 | 118.64 | 111.91 |
| 21 | B | 1204 | CLA | CMD-C2D-C3D | -2.14 | 122.68 | 127.61 |
| 21 | 1 | 1109 | CLA | CHA-C1A-NA | -2.14 | 121.49 | 126.40 |
| 22 | b | 2002 | PQN | C11-C12-C13 | -2.14 | 123.22 | 126.79 |
| 21 | 1 | 1113 | CLA | CMD-C2D-C3D | -2.14 | 122.68 | 127.61 |
| 21 | a | 1107 | CLA | CAA-C2A-C3A | -2.14 | 106.91 | 112.78 |
| 21 | a | 1102 | CLA | CMB-C2B-C3B | 2.14 | 128.69 | 124.68 |
| 21 | a | 1135 | CLA | C3D-C2D-C1D | -2.14 | 102.91 | 105.83 |
| 24 | a | 4003 | BCR | C34-C9-C10 | -2.14 | 119.92 | 122.92 |
| 21 | b | 1228 | CLA | CHA-C1A-NA | -2.14 | 121.49 | 126.40 |
| 21 | B | 1239 | CLA | C3D-C2D-C1D | -2.14 | 102.91 | 105.83 |
| 24 | K | 4001 | BCR | C10-C11-C12 | -2.14 | 116.53 | 123.22 |
| 21 | B | 1216 | CLA | C3D-C2D-C1D | -2.14 | 102.91 | 105.83 |
| 21 | b | 1208 | CLA | C3D-C2D-C1D | -2.14 | 102.91 | 105.83 |
| 21 | 2 | 1232 | CLA | CHA-C1A-NA | -2.14 | 121.50 | 126.40 |
| 24 | L | 4019 | BCR | C38-C26-C25 | -2.14 | 122.12 | 124.53 |
| 24 | b | 4004 | BCR | C36-C18-C19 | -2.14 | 114.70 | 118.08 |
| 24 | 2 | 4004 | BCR | C39-C30-C25 | -2.14 | 106.83 | 110.30 |
| 21 | b | 1222 | CLA | CMA-C3A-C4A | 2.14 | 117.53 | 111.77 |
| 21 | a | 1140 | CLA | C3D-C2D-C1D | -2.14 | 102.91 | 105.83 |
| 21 | 2 | 1207 | CLA | C3D-C2D-C1D | -2.14 | 102.91 | 105.83 |
| 24 | L | 4019 | BCR | C32-C1-C6 | -2.14 | 106.83 | 110.30 |
| 21 | 1 | 1108 | CLA | C3D-C2D-C1D | -2.14 | 102.91 | 105.83 |
| 21 | b | 1235 | CLA | CMD-C2D-C3D | -2.14 | 122.69 | 127.61 |
| 21 | B | 1215 | CLA | O2A-CGA-CBA | 2.14 | 118.62 | 111.91 |
| 21 | b | 1219 | CLA | CMD-C2D-C3D | -2.14 | 122.69 | 127.61 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | 2 | 1212 | CLA | CMD-C2D-C3D | -2.14 | 122.69 | 127.61 |
| 24 | A | 4003 | BCR | C35-C13-C12 | 2.14 | 121.45 | 118.08 |
| 21 | A | 1115 | CLA | O2A-CGA-CBA | 2.14 | 118.62 | 111.91 |
| 34 | F | 4016 | ZEX | C27-C28-C29 | 2.14 | 129.47 | 126.23 |
| 21 | 1 | 1012 | CLA | O2D-CGD-O1D | -2.14 | 119.66 | 123.84 |
| 21 | 2 | 1221 | CLA | O2A-CGA-CBA | 2.14 | 118.62 | 111.91 |
| 21 | a | 1131 | CLA | O2A-CGA-CBA | 2.14 | 118.61 | 111.91 |
| 21 | b | 1230 | CLA | O2A-CGA-CBA | 2.14 | 118.61 | 111.91 |
| 21 | A | 1133 | CLA | C3D-C2D-C1D | -2.14 | 102.92 | 105.83 |
| 21 | 2 | 1202 | CLA | C3D-C2D-C1D | -2.14 | 102.92 | 105.83 |
| 21 | 0 | 1502 | CLA | O2A-CGA-CBA | 2.14 | 118.61 | 111.91 |
| 21 | A | 1137 | CLA | CAA-CBA-CGA | -2.14 | 107.01 | 113.25 |
| 21 | B | 1022 | CLA | C3D-C2D-C1D | -2.14 | 102.92 | 105.83 |
| 21 | B | 1223 | CLA | CMD-C2D-C3D | -2.14 | 122.70 | 127.61 |
| 21 | b | 1203 | CLA | CMB-C2B-C1B | -2.14 | 125.18 | 128.46 |
| 21 | a | 1135 | CLA | CHA-C1A-NA | -2.14 | 121.51 | 126.40 |
| 24 | A | 4002 | BCR | C39-C30-C25 | -2.14 | 106.84 | 110.30 |
| 21 | 1 | 1114 | CLA | CMD-C2D-C3D | -2.13 | 122.70 | 127.61 |
| 21 | A | 1139 | CLA | C3D-C2D-C1D | -2.13 | 102.92 | 105.83 |
| 21 | 1 | 1133 | CLA | C3D-C2D-C1D | -2.13 | 102.92 | 105.83 |
| 21 | a | 1119 | CLA | CMD-C2D-C3D | -2.13 | 122.70 | 127.61 |
| 21 | a | 1105 | CLA | CHA-C1A-NA | -2.13 | 121.51 | 126.40 |
| 21 | a | 1123 | CLA | C3D-C2D-C1D | -2.13 | 102.92 | 105.83 |
| 21 | 2 | 1211 | CLA | C3D-C2D-C1D | -2.13 | 102.92 | 105.83 |
| 21 | a | 1117 | CLA | C3D-C2D-C1D | -2.13 | 102.92 | 105.83 |
| 21 | b | 1237 | CLA | CHA-C1A-NA | -2.13 | 121.51 | 126.40 |
| 21 | b | 1206 | CLA | CHA-C1A-NA | -2.13 | 121.51 | 126.40 |
| 34 | F | 4016 | ZEX | C39-C29-C28 | 2.13 | 121.44 | 118.08 |
| 24 | b | 4005 | BCR | C30-C25-C24 | 2.13 | 121.81 | 115.78 |
| 21 | 1 | 1105 | CLA | CMD-C2D-C3D | -2.13 | 122.71 | 127.61 |
| 36 | I | 4020 | EQ3 | C36-C18-C19 | 2.13 | 121.44 | 118.08 |
| 30 | b | 4006 | ECH | C11-C10-C9 | -2.13 | 124.27 | 127.31 |
| 24 | 1 | 4003 | BCR | C34-C9-C10 | -2.13 | 119.94 | 122.92 |
| 21 | 1 | 1121 | CLA | O2A-CGA-CBA | 2.13 | 118.59 | 111.91 |
| 21 | A | 1013 | CLA | O2D-CGD-O1D | -2.13 | 119.67 | 123.84 |
| 21 | b | 1221 | CLA | C3D-C2D-C1D | -2.13 | 102.92 | 105.83 |
| 21 | 7 | 1302 | CLA | CHA-C1A-NA | -2.13 | 121.52 | 126.40 |
| 21 | B | 1218 | CLA | CMB-C2B-C3B | 2.13 | 128.66 | 124.68 |
| 26 | a | 5004 | LMG | O7-C10-O9 | -2.13 | 118.56 | 123.70 |
| 21 | 2 | 1208 | CLA | CHA-C1A-NA | -2.13 | 121.52 | 126.40 |
| 21 | a | 1132 | CLA | CMB-C2B-C1B | -2.13 | 125.19 | 128.46 |
| 24 | L | 4022 | BCR | C37-C22-C23 | 2.13 | 121.43 | 118.08 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 35 | 0 | 6001 | LMT | O1B-C4'-C3' | 2.13 | 112.94 | 107.28 |
| 21 | B | 1234 | CLA | CHA-C1A-NA | -2.13 | 121.52 | 126.40 |
| 24 | a | 4001 | BCR | C32-C1-C6 | -2.13 | 106.85 | 110.30 |
| 21 | A | 1114 | CLA | O2A-CGA-CBA | 2.13 | 118.58 | 111.91 |
| 21 | 2 | 1218 | CLA | CMB-C2B-C1B | -2.13 | 125.19 | 128.46 |
| 24 | L | 4019 | BCR | C23-C24-C25 | 2.13 | 133.18 | 127.20 |
| 21 | A | 1130 | CLA | C3D-C2D-C1D | -2.13 | 102.93 | 105.83 |
| 21 | l | 1501 | CLA | CAC-C3C-C4C | 2.13 | 127.57 | 124.81 |
| 24 | 6 | 4016 | BCR | C27-C26-C25 | -2.13 | 119.64 | 122.73 |
| 24 | a | 4007 | BCR | C30-C25-C26 | -2.13 | 119.62 | 122.61 |
| 21 | a | 1140 | CLA | CHA-C1A-NA | -2.13 | 121.53 | 126.40 |
| 21 | 1 | 1127 | CLA | CHA-C1A-NA | -2.13 | 121.53 | 126.40 |
| 21 | a | 1105 | CLA | CAC-C3C-C4C | 2.13 | 127.57 | 124.81 |
| 21 | 1 | 1135 | CLA | CHA-C1A-NA | -2.13 | 121.53 | 126.40 |
| 21 | 2 | 1229 | CLA | CHA-C4D-ND | 2.13 | 136.94 | 132.50 |
| 24 | 1 | 4019 | BCR | C39-C30-C25 | -2.13 | 106.85 | 110.30 |
| 30 | b | 4011 | ECH | C19-C18-C17 | 2.12 | 122.20 | 118.94 |
| 21 | a | 1140 | CLA | CMD-C2D-C3D | -2.12 | 122.73 | 127.61 |
| 21 | A | 1106 | CLA | CAA-C2A-C1A | -2.12 | 105.01 | 111.97 |
| 21 | b | 1023 | CLA | C2A-C1A-CHA | 2.12 | 127.57 | 123.86 |
| 21 | b | 1234 | CLA | O2A-CGA-CBA | 2.12 | 118.57 | 111.91 |
| 21 | a | 1136 | CLA | CHA-C1A-NA | -2.12 | 121.53 | 126.40 |
| 21 | 1 | 1104 | CLA | CHA-C1A-NA | -2.12 | 121.53 | 126.40 |
| 21 | 1 | 1115 | CLA | CMD-C2D-C3D | -2.12 | 122.73 | 127.61 |
| 21 | b | 1222 | CLA | O2A-CGA-CBA | 2.12 | 118.57 | 111.91 |
| 21 | a | 1116 | CLA | C3D-C2D-C1D | -2.12 | 102.93 | 105.83 |
| 21 | a | 1131 | CLA | C3D-C2D-C1D | -2.12 | 102.93 | 105.83 |
| 21 | 2 | 1205 | CLA | C3D-C2D-C1D | -2.12 | 102.93 | 105.83 |
| 21 | 1 | 1013 | CLA | O2A-CGA-CBA | 2.12 | 118.57 | 111.91 |
| 21 | a | 1121 | CLA | CMD-C2D-C3D | -2.12 | 122.73 | 127.61 |
| 21 | 2 | 1234 | CLA | CMD-C2D-C3D | -2.12 | 122.73 | 127.61 |
| 21 | 1 | 1140 | CLA | C1-O2A-CGA | 2.12 | 122.01 | 116.44 |
| 21 | B | 1220 | CLA | CHA-C1A-NA | -2.12 | 121.54 | 126.40 |
| 21 | B | 1230 | CLA | CMD-C2D-C3D | -2.12 | 122.73 | 127.61 |
| 24 | a | 4012 | BCR | C38-C26-C27 | 2.12 | 117.69 | 113.62 |
| 21 | B | 1239 | CLA | O2D-CGD-O1D | -2.12 | 119.69 | 123.84 |
| 21 | 6 | 1302 | CLA | CMD-C2D-C3D | -2.12 | 122.73 | 127.61 |
| 24 | a | 4007 | BCR | C38-C26-C27 | 2.12 | 117.69 | 113.62 |
| 21 | 1 | 1140 | CLA | C3D-C2D-C1D | -2.12 | 102.94 | 105.83 |
| 21 | 1 | 1130 | CLA | CMD-C2D-C3D | -2.12 | 122.74 | 127.61 |
| 21 | 2 | 1203 | CLA | CMD-C2D-C3D | -2.12 | 122.74 | 127.61 |
| 21 | A | 1124 | CLA | O2A-CGA-CBA | 2.12 | 118.56 | 111.91 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | A | 1126 | CLA | O2A-CGA-CBA | 2.12 | 118.56 | 111.91 |
| 21 | F | 1301 | CLA | CHA-C1A-NA | -2.12 | 121.54 | 126.40 |
| 21 | a | 1119 | CLA | CHA-C1A-NA | -2.12 | 121.55 | 126.40 |
| 21 | a | 1108 | CLA | CMD-C2D-C3D | -2.12 | 122.74 | 127.61 |
| 21 | A | 1119 | CLA | C3D-C2D-C1D | -2.12 | 102.94 | 105.83 |
| 21 | A | 1102 | CLA | CMD-C2D-C3D | -2.12 | 122.74 | 127.61 |
| 21 | 1 | 1125 | CLA | CMB-C2B-C3B | 2.12 | 128.64 | 124.68 |
| 21 | B | 1218 | CLA | C1-O2A-CGA | 2.12 | 122.00 | 116.44 |
| 21 | 0 | 1503 | CLA | CMD-C2D-C3D | -2.12 | 122.74 | 127.61 |
| 24 | l | 4019 | BCR | C32-C1-C6 | -2.12 | 106.86 | 110.30 |
| 21 | a | 1127 | CLA | CHA-C1A-NA | -2.12 | 121.55 | 126.40 |
| 21 | b | 1240 | CLA | CHA-C1A-NA | -2.12 | 121.55 | 126.40 |
| 24 | j | 4013 | BCR | C19-C18-C17 | 2.12 | 122.19 | 118.94 |
| 21 | b | 1237 | CLA | CMB-C2B-C3B | 2.12 | 128.64 | 124.68 |
| 21 | a | 1137 | CLA | CMD-C2D-C3D | -2.12 | 122.74 | 127.61 |
| 21 | B | 1231 | CLA | O2A-CGA-CBA | 2.12 | 118.55 | 111.91 |
| 21 | A | 1131 | CLA | O2A-CGA-CBA | 2.12 | 118.55 | 111.91 |
| 21 | A | 1117 | CLA | C3D-C2D-C1D | -2.12 | 102.94 | 105.83 |
| 21 | 2 | 1237 | CLA | CHA-C1A-NA | -2.12 | 121.55 | 126.40 |
| 30 | i | 4020 | ECH | C34-C9-C10 | 2.12 | 125.89 | 122.92 |
| 21 | j | 1303 | CLA | CMD-C2D-C3D | -2.12 | 122.75 | 127.61 |
| 21 | 1 | 1108 | CLA | CMD-C2D-C3D | -2.12 | 122.75 | 127.61 |
| 24 | a | 4002 | BCR | C37-C22-C23 | 2.11 | 121.41 | 118.08 |
| 21 | 2 | 1212 | CLA | CHA-C1A-NA | -2.11 | 121.56 | 126.40 |
| 24 | 7 | 4013 | BCR | C37-C22-C23 | 2.11 | 121.41 | 118.08 |
| 21 | A | 1135 | CLA | O2A-CGA-CBA | 2.11 | 118.54 | 111.91 |
| 21 | A | 1126 | CLA | C3D-C2D-C1D | -2.11 | 102.95 | 105.83 |
| 21 | A | 1111 | CLA | CMD-C2D-C3D | -2.11 | 122.75 | 127.61 |
| 21 | A | 1120 | CLA | O2A-CGA-CBA | 2.11 | 118.54 | 111.91 |
| 21 | a | 1129 | CLA | CMD-C2D-C3D | -2.11 | 122.75 | 127.61 |
| 21 | A | 1136 | CLA | C1-O2A-CGA | 2.11 | 121.99 | 116.44 |
| 21 | B | 1238 | CLA | CHA-C1A-NA | -2.11 | 121.56 | 126.40 |
| 21 | 2 | 1222 | CLA | CHA-C1A-NA | -2.11 | 121.56 | 126.40 |
| 24 | B | 4018 | BCR | C11-C12-C13 | -2.11 | 120.48 | 126.42 |
| 21 | B | 1231 | CLA | C3D-C2D-C1D | -2.11 | 102.95 | 105.83 |
| 21 | b | 1213 | CLA | C3D-C2D-C1D | -2.11 | 102.95 | 105.83 |
| 21 | 6 | 1301 | CLA | CHA-C1A-NA | -2.11 | 121.56 | 126.40 |
| 21 | B | 1217 | CLA | CHA-C1A-NA | -2.11 | 121.56 | 126.40 |
| 21 | A | 1102 | CLA | CAA-CBA-CGA | -2.11 | 107.08 | 113.25 |
| 21 | A | 1121 | CLA | CHA-C1A-NA | -2.11 | 121.56 | 126.40 |
| 21 | b | 1216 | CLA | CHA-C1A-NA | -2.11 | 121.56 | 126.40 |
| 21 | b | 1216 | CLA | C3D-C2D-C1D | -2.11 | 102.95 | 105.83 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | j | 1303 | CLA | C3D-C2D-C1D | -2.11 | 102.95 | 105.83 |
| 24 | I | 4018 | BCR | C38-C26-C25 | -2.11 | 122.16 | 124.53 |
| 30 | 2 | 4006 | ECH | C15-C16-C17 | 2.11 | 127.80 | 123.47 |
| 21 | b | 1240 | CLA | CMD-C2D-C3D | -2.11 | 122.76 | 127.61 |
| 21 | L | 1501 | CLA | C3D-C2D-C1D | -2.11 | 102.95 | 105.83 |
| 21 | b | 1227 | CLA | CMD-C2D-C3D | -2.11 | 122.77 | 127.61 |
| 35 | 0 | 6001 | LMT | C1'-C2'-C3' | 2.11 | 114.39 | 110.00 |
| 21 | B | 1022 | CLA | CMA-C3A-C4A | 2.11 | 117.44 | 111.77 |
| 21 | 1 | 1129 | CLA | C3D-C2D-C1D | -2.11 | 102.96 | 105.83 |
| 21 | 2 | 1222 | CLA | C3D-C2D-C1D | -2.11 | 102.96 | 105.83 |
| 21 | 2 | 1235 | CLA | CMD-C2D-C3D | -2.11 | 122.77 | 127.61 |
| 21 | B | 1240 | CLA | CMD-C2D-C3D | -2.11 | 122.77 | 127.61 |
| 24 | 8 | 4001 | BCR | C37-C22-C23 | 2.10 | 121.39 | 118.08 |
| 21 | 1 | 1101 | CLA | C3D-C2D-C1D | -2.10 | 102.96 | 105.83 |
| 21 | A | 1111 | CLA | C1-O2A-CGA | 2.10 | 121.97 | 116.44 |
| 24 | A | 4007 | BCR | C38-C26-C25 | -2.10 | 122.17 | 124.53 |
| 21 | b | 1219 | CLA | CHA-C1A-NA | -2.10 | 121.58 | 126.40 |
| 24 | A | 4001 | BCR | C37-C22-C23 | 2.10 | 121.39 | 118.08 |
| 24 | 1 | 4019 | BCR | C37-C22-C23 | 2.10 | 121.39 | 118.08 |
| 21 | 2 | 1235 | CLA | O2A-CGA-CBA | 2.10 | 118.51 | 111.91 |
| 21 | a | 1128 | CLA | CHA-C1A-NA | -2.10 | 121.58 | 126.40 |
| 21 | 2 | 1239 | CLA | O2D-CGD-O1D | -2.10 | 119.72 | 123.84 |
| 21 | a | 1122 | CLA | CMD-C2D-C3D | -2.10 | 122.78 | 127.61 |
| 24 | 1 | 4022 | BCR | C37-C22-C23 | 2.10 | 121.39 | 118.08 |
| 21 | 1 | 1123 | CLA | O2A-CGA-CBA | 2.10 | 118.51 | 111.91 |
| 21 | B | 1220 | CLA | CMD-C2D-C3D | -2.10 | 122.78 | 127.61 |
| 24 | 1 | 4022 | BCR | C35-C13-C12 | 2.10 | 121.39 | 118.08 |
| 21 | 2 | 1214 | CLA | CMB-C2B-C3B | 2.10 | 128.61 | 124.68 |
| 21 | B | 1216 | CLA | CMD-C2D-C3D | -2.10 | 122.78 | 127.61 |
| 21 | b | 1215 | CLA | CHA-C1A-NA | -2.10 | 121.58 | 126.40 |
| 21 | 1 | 1139 | CLA | CHA-C1A-NA | -2.10 | 121.58 | 126.40 |
| 21 | a | 1127 | CLA | CMD-C2D-C3D | -2.10 | 122.78 | 127.61 |
| 21 | A | 1134 | CLA | CMD-C2D-C3D | -2.10 | 122.78 | 127.61 |
| 21 | b | 1206 | CLA | C3D-C2D-C1D | -2.10 | 102.96 | 105.83 |
| 21 | A | 1125 | CLA | CHA-C1A-NA | -2.10 | 121.59 | 126.40 |
| 21 | a | 1122 | CLA | CHA-C1A-NA | -2.10 | 121.59 | 126.40 |
| 24 | L | 4019 | BCR | C35-C13-C12 | 2.10 | 121.39 | 118.08 |
| 30 | 2 | 4006 | ECH | C29-C30-C25 | -2.10 | 107.25 | 110.48 |
| 24 | 1 | 4022 | BCR | C32-C1-C6 | -2.10 | 106.89 | 110.30 |
| 21 | b | 1211 | CLA | C3D-C2D-C1D | -2.10 | 102.97 | 105.83 |
| 21 | 1 | 1801 | CLA | CHA-C1A-NA | -2.10 | 121.59 | 126.40 |
| 26 | B | 5005 | LMG | O7-C10-O9 | -2.10 | 118.63 | 123.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | a | 1012 | CLA | C2A-C1A-CHA | 2.10 | 127.53 | 123.86 |
| 21 | b | 1207 | CLA | CHA-C1A-NA | -2.10 | 121.59 | 126.40 |
| 24 | 1 | 4003 | BCR | C37-C22-C23 | 2.10 | 121.38 | 118.08 |
| 21 | 6 | 1301 | CLA | CMD-C2D-C3D | -2.10 | 122.79 | 127.61 |
| 21 | 1 | 1013 | CLA | C2A-C1A-CHA | 2.10 | 127.53 | 123.86 |
| 21 | B | 1217 | CLA | CAC-C3C-C4C | 2.10 | 127.53 | 124.81 |
| 21 | 1 | 1132 | CLA | CMA-C3A-C4A | 2.10 | 117.41 | 111.77 |
| 21 | B | 1211 | CLA | CHA-C1A-NA | -2.10 | 121.60 | 126.40 |
| 21 | B | 1203 | CLA | C3D-C2D-C1D | -2.10 | 102.97 | 105.83 |
| 30 | B | 4006 | ECH | C37-C22-C21 | 2.10 | 125.86 | 122.92 |
| 21 | B | 1227 | CLA | O2A-CGA-CBA | 2.09 | 118.48 | 111.91 |
| 24 | K | 4001 | BCR | C12-C13-C14 | -2.09 | 115.73 | 118.94 |
| 21 | b | 1224 | CLA | CMB-C2B-C1B | -2.09 | 125.25 | 128.46 |
| 21 | b | 1222 | CLA | CBC-CAC-C3C | -2.09 | 106.66 | 112.43 |
| 21 | 2 | 1228 | CLA | O1D-CGD-CBD | -2.09 | 120.20 | 124.48 |
| 26 | A | 5002 | LMG | O7-C10-O9 | -2.09 | 118.64 | 123.70 |
| 21 | f | 1301 | CLA | O2A-CGA-CBA | 2.09 | 118.47 | 111.91 |
| 21 | A | 1129 | CLA | CMD-C2D-C3D | -2.09 | 122.80 | 127.61 |
| 21 | 1 | 1106 | CLA | CMD-C2D-C3D | -2.09 | 122.80 | 127.61 |
| 24 | 9 | 4021 | BCR | C8-C7-C6 | 2.09 | 133.08 | 127.20 |
| 21 | B | 1202 | CLA | CMD-C2D-C3D | -2.09 | 122.80 | 127.61 |
| 21 | b | 1022 | CLA | CMD-C2D-C3D | -2.09 | 122.80 | 127.61 |
| 21 | 2 | 1210 | CLA | CMD-C2D-C3D | -2.09 | 122.80 | 127.61 |
| 21 | b | 1208 | CLA | CMD-C2D-C3D | -2.09 | 122.80 | 127.61 |
| 21 | 2 | 1238 | CLA | CMD-C2D-C3D | -2.09 | 122.80 | 127.61 |
| 21 | 1 | 1119 | CLA | C3D-C2D-C1D | -2.09 | 102.98 | 105.83 |
| 21 | B | 1236 | CLA | CMD-C2D-C3D | -2.09 | 122.80 | 127.61 |
| 24 | 0 | 4022 | BCR | C15-C14-C13 | 2.09 | 130.29 | 127.31 |
| 21 | A | 1120 | CLA | CHA-C1A-NA | -2.09 | 121.61 | 126.40 |
| 21 | A | 1138 | CLA | C3D-C2D-C1D | -2.09 | 102.98 | 105.83 |
| 31 | L | 5002 | SQD | O3-C3-C2 | -2.09 | 105.52 | 110.35 |
| 21 | 2 | 1215 | CLA | O2A-CGA-CBA | 2.09 | 118.47 | 111.91 |
| 21 | B | 1021 | CLA | CMD-C2D-C3D | -2.09 | 122.81 | 127.61 |
| 21 | A | 1129 | CLA | CMA-C3A-C4A | 2.09 | 117.39 | 111.77 |
| 21 | 2 | 1219 | CLA | C3D-C2D-C1D | -2.09 | 102.98 | 105.83 |
| 21 | 6 | 1302 | CLA | O2D-CGD-O1D | -2.09 | 119.75 | 123.84 |
| 21 | a | 1123 | CLA | CHA-C1A-NA | -2.09 | 121.61 | 126.40 |
| 21 | 8 | 1402 | CLA | CMB-C2B-C1B | -2.09 | 125.25 | 128.46 |
| 21 | a | 1103 | CLA | O2A-CGA-CBA | 2.09 | 118.47 | 111.91 |
| 21 | j | 1303 | CLA | O2A-CGA-CBA | 2.09 | 118.47 | 111.91 |
| 21 | a | 1107 | CLA | CHA-C1A-NA | -2.09 | 121.61 | 126.40 |
| 26 | b | 5002 | LMG | C30-C29-C28 | -2.09 | 106.03 | 113.62 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 34 | J | 4015 | ZEX | C23-C24-C25 | -2.09 | 106.36 | 109.33 |
| 21 | b | 1222 | CLA | CMB-C2B-C3B | 2.09 | 128.59 | 124.68 |
| 21 | a | 1109 | CLA | CHA-C1A-NA | -2.09 | 121.62 | 126.40 |
| 24 | k | 4001 | BCR | C29-C28-C27 | 2.09 | 116.04 | 111.38 |
| 21 | a | 1130 | CLA | CAA-C2A-C3A | -2.09 | 107.06 | 112.78 |
| 21 | 2 | 1240 | CLA | CAA-C2A-C3A | -2.09 | 111.23 | 116.10 |
| 24 | A | 4002 | BCR | C31-C1-C6 | -2.09 | 106.91 | 110.30 |
| 21 | b | 1217 | CLA | CHA-C1A-NA | -2.09 | 121.62 | 126.40 |
| 21 | a | 1127 | CLA | C1-O2A-CGA | 2.09 | 121.92 | 116.44 |
| 21 | 1 | 1109 | CLA | CAC-C3C-C4C | 2.09 | 127.52 | 124.81 |
| 21 | A | 1137 | CLA | CMA-C3A-C4A | 2.09 | 117.38 | 111.77 |
| 21 | A | 1107 | CLA | C1-O2A-CGA | 2.09 | 121.92 | 116.44 |
| 21 | K | 1401 | CLA | O2A-CGA-CBA | 2.09 | 118.45 | 111.91 |
| 25 | A | 5005 | LHG | O7-C7-O9 | -2.09 | 118.66 | 123.70 |
| 21 | a | 1113 | CLA | CMB-C2B-C1B | -2.09 | 125.26 | 128.46 |
| 21 | A | 1140 | CLA | C1-O2A-CGA | 2.09 | 121.92 | 116.44 |
| 21 | j | 1302 | CLA | CHA-C1A-NA | -2.08 | 121.62 | 126.40 |
| 26 | B | 5002 | LMG | C30-C29-C28 | -2.08 | 106.04 | 113.62 |
| 31 | L | 5001 | SQD | O8-S-C6 | -2.08 | 102.42 | 105.74 |
| 24 | B | 4018 | BCR | C35-C13-C14 | -2.08 | 120.00 | 122.92 |
| 21 | B | 1023 | CLA | CMB-C2B-C3B | 2.08 | 128.58 | 124.68 |
| 21 | 2 | 1217 | CLA | C3D-C2D-C1D | -2.08 | 102.99 | 105.83 |
| 21 | b | 1222 | CLA | O2D-CGD-O1D | -2.08 | 119.77 | 123.84 |
| 21 | 1 | 1110 | CLA | CMD-C2D-C3D | -2.08 | 122.82 | 127.61 |
| 24 | A | 4007 | BCR | C39-C30-C25 | -2.08 | 106.92 | 110.30 |
| 21 | 1 | 1013 | CLA | C1D-ND-C4D | -2.08 | 104.86 | 106.33 |
| 21 | 2 | 1230 | CLA | CHA-C1A-NA | -2.08 | 121.63 | 126.40 |
| 21 | 2 | 1229 | CLA | CMD-C2D-C3D | -2.08 | 122.83 | 127.61 |
| 21 | a | 1110 | CLA | CHA-C1A-NA | -2.08 | 121.63 | 126.40 |
| 24 | 7 | 4013 | BCR | C36-C18-C19 | -2.08 | 114.80 | 118.08 |
| 21 | l | 1501 | CLA | C3D-C2D-C1D | -2.08 | 102.99 | 105.83 |
| 21 | B | 1222 | CLA | O2A-CGA-CBA | 2.08 | 118.44 | 111.91 |
| 21 | 1 | 1117 | CLA | C3D-C2D-C1D | -2.08 | 102.99 | 105.83 |
| 21 | 1 | 1113 | CLA | CHA-C1A-NA | -2.08 | 121.64 | 126.40 |
| 24 | l | 4022 | BCR | C36-C18-C19 | -2.08 | 114.80 | 118.08 |
| 21 | 2 | 1238 | CLA | O2A-CGA-CBA | 2.08 | 118.43 | 111.91 |
| 21 | L | 1503 | CLA | C3D-C2D-C1D | -2.08 | 102.99 | 105.83 |
| 21 | b | 1235 | CLA | C3D-C2D-C1D | -2.08 | 102.99 | 105.83 |
| 21 | a | 1124 | CLA | CHA-C1A-NA | -2.08 | 121.64 | 126.40 |
| 21 | b | 1213 | CLA | CHA-C1A-NA | -2.08 | 121.64 | 126.40 |
| 21 | b | 1202 | CLA | CMA-C3A-C4A | 2.08 | 117.36 | 111.77 |
| 21 | a | 1107 | CLA | O2A-CGA-CBA | 2.08 | 118.43 | 111.91 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | 1 | 1127 | CLA | C3D-C2D-C1D | -2.08 | 103.00 | 105.83 |
| 21 | 7 | 1303 | CLA | CHA-C1A-NA | -2.08 | 121.64 | 126.40 |
| 21 | a | 1801 | CLA | CMD-C2D-C3D | -2.08 | 122.83 | 127.61 |
| 21 | 7 | 1303 | CLA | CAA-C2A-C3A | -2.08 | 111.25 | 116.10 |
| 21 | a | 1115 | CLA | CMD-C2D-C3D | -2.08 | 122.84 | 127.61 |
| 21 | 2 | 1226 | CLA | CMB-C2B-C1B | -2.08 | 125.27 | 128.46 |
| 21 | b | 1227 | CLA | CHA-C1A-NA | -2.08 | 121.64 | 126.40 |
| 21 | 1 | 1125 | CLA | CHA-C1A-NA | -2.08 | 121.64 | 126.40 |
| 21 | a | 1118 | CLA | C3D-C2D-C1D | -2.08 | 103.00 | 105.83 |
| 21 | 1 | 1102 | CLA | CMD-C2D-C3D | -2.08 | 122.84 | 127.61 |
| 21 | 1 | 1122 | CLA | CHA-C1A-NA | -2.08 | 121.64 | 126.40 |
| 21 | B | 1201 | CLA | C3D-C2D-C1D | -2.08 | 103.00 | 105.83 |
| 21 | b | 1214 | CLA | C3D-C2D-C1D | -2.08 | 103.00 | 105.83 |
| 21 | b | 1224 | CLA | CHA-C1A-NA | -2.08 | 121.64 | 126.40 |
| 24 | 6 | 4016 | BCR | C38-C26-C27 | 2.08 | 117.60 | 113.62 |
| 21 | B | 1022 | CLA | CHA-C1A-NA | -2.08 | 121.64 | 126.40 |
| 21 | B | 1228 | CLA | CHA-C1A-NA | -2.08 | 121.64 | 126.40 |
| 21 | 2 | 1217 | CLA | CMD-C2D-C3D | -2.08 | 122.84 | 127.61 |
| 24 | B | 4010 | BCR | C38-C26-C25 | -2.07 | 122.20 | 124.53 |
| 21 | a | 1133 | CLA | CMD-C2D-C3D | -2.07 | 122.84 | 127.61 |
| 21 | B | 1222 | CLA | C3D-C2D-C1D | -2.07 | 103.00 | 105.83 |
| 21 | b | 1206 | CLA | CAC-C3C-C4C | 2.07 | 127.50 | 124.81 |
| 21 | 2 | 1234 | CLA | CHA-C1A-NA | -2.07 | 121.65 | 126.40 |
| 21 | b | 1204 | CLA | CMD-C2D-C3D | -2.07 | 122.84 | 127.61 |
| 21 | l | 1502 | CLA | CHA-C1A-NA | -2.07 | 121.65 | 126.40 |
| 26 | B | 5002 | LMG | O7-C10-O9 | -2.07 | 118.69 | 123.70 |
| 34 | j | 4015 | ZEX | C40-C33-C34 | -2.07 | 120.02 | 122.92 |
| 21 | 1 | 1103 | CLA | C3D-C2D-C1D | -2.07 | 103.00 | 105.83 |
| 21 | j | 1302 | CLA | CMD-C2D-C3D | -2.07 | 122.85 | 127.61 |
| 24 | 2 | 4005 | BCR | C37-C22-C23 | 2.07 | 121.34 | 118.08 |
| 21 | a | 1131 | CLA | CMD-C2D-C3D | -2.07 | 122.85 | 127.61 |
| 24 | 0 | 4019 | BCR | C8-C9-C10 | 2.07 | 122.12 | 118.94 |
| 21 | a | 1112 | CLA | CMD-C2D-C3D | -2.07 | 122.85 | 127.61 |
| 24 | b | 4004 | BCR | C35-C13-C12 | 2.07 | 121.34 | 118.08 |
| 21 | B | 1215 | CLA | CAC-C3C-C4C | 2.07 | 127.50 | 124.81 |
| 21 | 8 | 1402 | CLA | CMD-C2D-C3D | -2.07 | 122.85 | 127.61 |
| 21 | A | 1127 | CLA | CHA-C1A-NA | -2.07 | 121.66 | 126.40 |
| 21 | 2 | 1211 | CLA | CHA-C1A-NA | -2.07 | 121.66 | 126.40 |
| 21 | F | 1302 | CLA | CMD-C2D-C3D | -2.07 | 122.86 | 127.61 |
| 21 | 1 | 1137 | CLA | CHA-C1A-NA | -2.07 | 121.66 | 126.40 |
| 21 | B | 1213 | CLA | CMD-C2D-C3D | -2.07 | 122.86 | 127.61 |
| 21 | b | 1220 | CLA | CHA-C1A-NA | -2.07 | 121.66 | 126.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | A | 1138 | CLA | CHA-C1A-NA | -2.07 | 121.67 | 126.40 |
| 24 | 1 | 4019 | BCR | C37-C22-C23 | 2.07 | 121.33 | 118.08 |
| 21 | 2 | 1205 | CLA | CBC-CAC-C3C | -2.07 | 106.74 | 112.43 |
| 31 | 0 | 5005 | SQD | O8-S-C6 | -2.07 | 102.45 | 105.74 |
| 21 | A | 1110 | CLA | C3D-C2D-C1D | -2.06 | 103.01 | 105.83 |
| 21 | 2 | 1226 | CLA | C3D-C2D-C1D | -2.06 | 103.01 | 105.83 |
| 24 | 2 | 4011 | BCR | C37-C22-C23 | 2.06 | 121.33 | 118.08 |
| 21 | A | 1012 | CLA | CMA-C3A-C4A | 2.06 | 117.32 | 111.77 |
| 34 | F | 4016 | ZEX | C20-C13-C14 | -2.06 | 120.03 | 122.92 |
| 21 | A | 1111 | CLA | CAC-C3C-C4C | 2.06 | 127.49 | 124.81 |
| 21 | 1 | 1107 | CLA | CHA-C1A-NA | -2.06 | 121.67 | 126.40 |
| 21 | B | 1236 | CLA | CHA-C1A-NA | -2.06 | 121.67 | 126.40 |
| 21 | J | 1303 | CLA | CMD-C2D-C3D | -2.06 | 122.87 | 127.61 |
| 21 | A | 1140 | CLA | O2A-CGA-CBA | 2.06 | 118.38 | 111.91 |
| 30 | b | 4011 | ECH | O27-C27-C26 | 2.06 | 122.79 | 120.96 |
| 21 | A | 1111 | CLA | C3D-C2D-C1D | -2.06 | 103.02 | 105.83 |
| 21 | k | 1401 | CLA | C3D-C2D-C1D | -2.06 | 103.02 | 105.83 |
| 21 | B | 1236 | CLA | CMA-C3A-C4A | 2.06 | 117.31 | 111.77 |
| 21 | 2 | 1220 | CLA | CMD-C2D-C3D | -2.06 | 122.87 | 127.61 |
| 21 | A | 1011 | CLA | C4D-C3D-CAD | -2.06 | 105.67 | 108.10 |
| 21 | 2 | 1218 | CLA | C1-O2A-CGA | 2.06 | 121.85 | 116.44 |
| 21 | K | 1402 | CLA | CHA-C1A-NA | -2.06 | 121.68 | 126.40 |
| 21 | 1 | 1130 | CLA | CHA-C1A-NA | -2.06 | 121.68 | 126.40 |
| 21 | B | 1203 | CLA | CMA-C3A-C4A | 2.06 | 117.31 | 111.77 |
| 24 | j | 4013 | BCR | C40-C30-C25 | -2.06 | 106.96 | 110.30 |
| 21 | 2 | 1207 | CLA | CMA-C3A-C2A | 2.06 | 122.14 | 113.83 |
| 21 | B | 1202 | CLA | O2D-CGD-O1D | -2.06 | 119.81 | 123.84 |
| 21 | A | 1134 | CLA | C3D-C2D-C1D | -2.06 | 103.02 | 105.83 |
| 21 | b | 1240 | CLA | CMB-C2B-C3B | 2.06 | 128.53 | 124.68 |
| 21 | 1 | 1136 | CLA | CHA-C1A-NA | -2.06 | 121.68 | 126.40 |
| 21 | b | 1204 | CLA | O2A-CGA-CBA | 2.06 | 118.37 | 111.91 |
| 35 | l | 6001 | LMT | C1B-O5B-C5B | 2.06 | 117.73 | 113.69 |
| 21 | B | 1212 | CLA | CMD-C2D-C3D | -2.06 | 122.88 | 127.61 |
| 21 | b | 1201 | CLA | CMD-C2D-C3D | -2.06 | 122.88 | 127.61 |
| 30 | M | 4021 | ECH | C11-C10-C9 | -2.06 | 124.37 | 127.31 |
| 21 | A | 1123 | CLA | O2D-CGD-O1D | -2.06 | 119.82 | 123.84 |
| 21 | B | 1221 | CLA | O2A-CGA-CBA | 2.06 | 118.36 | 111.91 |
| 21 | b | 1221 | CLA | CHA-C1A-NA | -2.06 | 121.69 | 126.40 |
| 21 | 2 | 1219 | CLA | CMB-C2B-C1B | -2.06 | 125.30 | 128.46 |
| 21 | a | 1110 | CLA | O2A-CGA-CBA | 2.06 | 118.36 | 111.91 |
| 35 | 1 | 6001 | LMT | O5B-C5B-C6B | 2.06 | 111.55 | 106.44 |
| 21 | B | 1215 | CLA | CHA-C1A-NA | -2.06 | 121.69 | 126.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | L | 1503 | CLA | CHA-C1A-NA | -2.06 | 121.69 | 126.40 |
| 21 | A | 1128 | CLA | CMA-C3A-C4A | 2.06 | 117.30 | 111.77 |
| 25 | A | 5003 | LHG | O8-C23-O10 | -2.06 | 118.40 | 123.59 |
| 24 | h | 4018 | BCR | C38-C26-C25 | -2.06 | 122.22 | 124.53 |
| 21 | A | 1111 | CLA | CHA-C1A-NA | -2.06 | 121.69 | 126.40 |
| 21 | B | 1216 | CLA | CHA-C1A-NA | -2.06 | 121.69 | 126.40 |
| 24 | 9 | 4021 | BCR | C39-C30-C25 | -2.05 | 106.97 | 110.30 |
| 21 | 2 | 1216 | CLA | CMD-C2D-C3D | -2.05 | 122.89 | 127.61 |
| 21 | 1 | 1138 | CLA | C3D-C2D-C1D | -2.05 | 103.03 | 105.83 |
| 21 | a | 1116 | CLA | CMD-C2D-C3D | -2.05 | 122.89 | 127.61 |
| 21 | 2 | 1221 | CLA | O1D-CGD-CBD | -2.05 | 120.28 | 124.48 |
| 21 | A | 1113 | CLA | C3D-C2D-C1D | -2.05 | 103.03 | 105.83 |
| 21 | 1 | 1128 | CLA | C3D-C2D-C1D | -2.05 | 103.03 | 105.83 |
| 21 | A | 1101 | CLA | C2A-C1A-CHA | 2.05 | 127.45 | 123.86 |
| 25 | A | 5006 | LHG | O7-C7-O9 | -2.05 | 118.74 | 123.70 |
| 24 | 2 | 4004 | BCR | C37-C22-C23 | 2.05 | 121.31 | 118.08 |
| 21 | b | 1239 | CLA | CHA-C1A-NA | -2.05 | 121.70 | 126.40 |
| 21 | l | 1501 | CLA | CHA-C1A-NA | -2.05 | 121.70 | 126.40 |
| 21 | B | 1205 | CLA | O2D-CGD-O1D | -2.05 | 119.83 | 123.84 |
| 24 | K | 4001 | BCR | C35-C13-C12 | 2.05 | 121.31 | 118.08 |
| 21 | A | 1124 | CLA | CHA-C1A-NA | -2.05 | 121.70 | 126.40 |
| 21 | b | 1227 | CLA | O2A-CGA-CBA | 2.05 | 118.34 | 111.91 |
| 21 | L | 1502 | CLA | CHA-C1A-NA | -2.05 | 121.70 | 126.40 |
| 21 | 6 | 1301 | CLA | C3D-C2D-C1D | -2.05 | 103.03 | 105.83 |
| 21 | a | 1116 | CLA | CHA-C1A-NA | -2.05 | 121.70 | 126.40 |
| 21 | b | 1217 | CLA | C1-O2A-CGA | 2.05 | 121.82 | 116.44 |
| 21 | B | 1203 | CLA | O2A-CGA-CBA | 2.05 | 118.34 | 111.91 |
| 21 | 6 | 1302 | CLA | C1D-ND-C4D | -2.05 | 104.88 | 106.33 |
| 31 | L | 5001 | SQD | O5-C1-O6 | -2.05 | 105.12 | 109.97 |
| 21 | b | 1210 | CLA | CMB-C2B-C1B | -2.05 | 125.31 | 128.46 |
| 21 | B | 1211 | CLA | O2A-CGA-CBA | 2.05 | 118.34 | 111.91 |
| 21 | 2 | 1202 | CLA | CMB-C2B-C3B | 2.05 | 128.51 | 124.68 |
| 21 | A | 1101 | CLA | CMB-C2B-C1B | -2.05 | 125.32 | 128.46 |
| 34 | j | 4015 | ZEX | C17-C1-C6 | -2.05 | 106.98 | 110.30 |
| 21 | a | 1106 | CLA | O2A-CGA-CBA | 2.05 | 118.33 | 111.91 |
| 21 | 1 | 1108 | CLA | CHA-C1A-NA | -2.05 | 121.71 | 126.40 |
| 31 | L | 5002 | SQD | O8-S-C6 | -2.05 | 102.48 | 105.74 |
| 24 | A | 4007 | BCR | C2-C1-C6 | 2.05 | 113.63 | 110.48 |
| 21 | L | 1502 | CLA | CMB-C2B-C3B | 2.05 | 128.51 | 124.68 |
| 21 | a | 1120 | CLA | CMD-C2D-C3D | -2.05 | 122.91 | 127.61 |
| 21 | A | 1131 | CLA | CHA-C1A-NA | -2.05 | 121.71 | 126.40 |
| 24 | 2 | 4017 | BCR | C34-C9-C10 | -2.05 | 120.06 | 122.92 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | A | 1122 | CLA | C1-O2A-CGA | 2.05 | 121.81 | 116.44 |
| 21 | a | 1110 | CLA | CMD-C2D-C3D | -2.04 | 122.91 | 127.61 |
| 21 | b | 1204 | CLA | CAC-C3C-C4C | 2.04 | 127.46 | 124.81 |
| 21 | B | 1226 | CLA | CMA-C3A-C4A | 2.04 | 117.27 | 111.77 |
| 21 | a | 1111 | CLA | CMD-C2D-C3D | -2.04 | 122.91 | 127.61 |
| 21 | B | 1208 | CLA | CHA-C1A-NA | -2.04 | 121.72 | 126.40 |
| 21 | b | 1210 | CLA | CHA-C1A-NA | -2.04 | 121.72 | 126.40 |
| 21 | B | 1201 | CLA | O2D-CGD-O1D | -2.04 | 119.84 | 123.84 |
| 21 | 2 | 1226 | CLA | O2D-CGD-O1D | -2.04 | 119.84 | 123.84 |
| 21 | A | 1125 | CLA | O2A-CGA-CBA | 2.04 | 118.32 | 111.91 |
| 24 | B | 4004 | BCR | C37-C22-C23 | 2.04 | 121.30 | 118.08 |
| 21 | B | 1217 | CLA | O2A-CGA-CBA | 2.04 | 118.32 | 111.91 |
| 21 | b | 1224 | CLA | CMD-C2D-C3D | -2.04 | 122.91 | 127.61 |
| 21 | f | 1302 | CLA | CMD-C2D-C3D | -2.04 | 122.91 | 127.61 |
| 21 | b | 1235 | CLA | CMB-C2B-C3B | 2.04 | 128.50 | 124.68 |
| 21 | B | 1205 | CLA | C3D-C2D-C1D | -2.04 | 103.04 | 105.83 |
| 21 | 1 | 1132 | CLA | O2D-CGD-O1D | -2.04 | 119.84 | 123.84 |
| 21 | b | 1210 | CLA | CMD-C2D-C3D | -2.04 | 122.91 | 127.61 |
| 21 | 2 | 1221 | CLA | C1D-ND-C4D | -2.04 | 104.88 | 106.33 |
| 30 | i | 4020 | ECH | C16-C15-C14 | 2.04 | 127.66 | 123.47 |
| 21 | a | 1129 | CLA | C3D-C2D-C1D | -2.04 | 103.05 | 105.83 |
| 21 | 2 | 1231 | CLA | CMA-C3A-C4A | 2.04 | 117.26 | 111.77 |
| 24 | 2 | 4005 | BCR | C34-C9-C10 | -2.04 | 120.06 | 122.92 |
| 21 | A | 1117 | CLA | CMD-C2D-C3D | -2.04 | 122.92 | 127.61 |
| 21 | A | 1801 | CLA | CMD-C2D-C3D | -2.04 | 122.92 | 127.61 |
| 21 | a | 1104 | CLA | CMD-C2D-C3D | -2.04 | 122.92 | 127.61 |
| 21 | 1 | 1107 | CLA | C3D-C2D-C1D | -2.04 | 103.05 | 105.83 |
| 21 | a | 1132 | CLA | O2A-CGA-CBA | 2.04 | 118.31 | 111.91 |
| 21 | 1 | 1132 | CLA | CHA-C1A-NA | -2.04 | 121.72 | 126.40 |
| 21 | 2 | 1222 | CLA | CAA-CBA-CGA | -2.04 | 107.29 | 113.25 |
| 21 | A | 1122 | CLA | C3D-C2D-C1D | -2.04 | 103.05 | 105.83 |
| 21 | B | 1227 | CLA | CMD-C2D-C3D | -2.04 | 122.92 | 127.61 |
| 21 | b | 1206 | CLA | O2A-CGA-CBA | 2.04 | 118.31 | 111.91 |
| 21 | A | 1801 | CLA | CHA-C1A-NA | -2.04 | 121.73 | 126.40 |
| 24 | 2 | 4018 | BCR | C30-C25-C26 | -2.04 | 119.74 | 122.61 |
| 21 | 0 | 1503 | CLA | C3D-C2D-C1D | -2.04 | 103.05 | 105.83 |
| 21 | 1 | 1131 | CLA | CMA-C3A-C4A | 2.04 | 117.25 | 111.77 |
| 21 | B | 1210 | CLA | CMD-C2D-C3D | -2.04 | 122.93 | 127.61 |
| 24 | B | 4018 | BCR | C37-C22-C23 | 2.04 | 121.29 | 118.08 |
| 21 | 1 | 1131 | CLA | C3D-C2D-C1D | -2.04 | 103.05 | 105.83 |
| 24 | a | 4012 | BCR | C32-C1-C6 | -2.04 | 107.00 | 110.30 |
| 21 | 2 | 1207 | CLA | C1-O2A-CGA | 2.04 | 121.79 | 116.44 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | F | 1302 | CLA | O2A-CGA-CBA | 2.04 | 118.30 | 111.91 |
| 35 | 1 | 6001 | LMT | C3'-C4'-C5' | -2.04 | 106.26 | 110.93 |
| 24 | 9 | 4021 | BCR | C23-C24-C25 | 2.04 | 132.92 | 127.20 |
| 21 | A | 1116 | CLA | CHA-C1A-NA | -2.04 | 121.73 | 126.40 |
| 30 | M | 4021 | ECH | C7-C6-C5 | -2.04 | 116.53 | 121.46 |
| 21 | B | 1208 | CLA | C3D-C2D-C1D | -2.04 | 103.05 | 105.83 |
| 21 | 2 | 1022 | CLA | C1-O2A-CGA | 2.03 | 121.78 | 116.44 |
| 21 | 1 | 1115 | CLA | CMB-C2B-C1B | -2.03 | 125.34 | 128.46 |
| 21 | A | 1109 | CLA | C3D-C2D-C1D | -2.03 | 103.06 | 105.83 |
| 24 | K | 4001 | BCR | C27-C26-C25 | -2.03 | 119.78 | 122.73 |
| 21 | A | 1013 | CLA | O2A-CGA-CBA | 2.03 | 118.29 | 111.91 |
| 24 | 2 | 4010 | BCR | C1-C6-C5 | -2.03 | 119.75 | 122.61 |
| 21 | B | 1213 | CLA | C2A-C1A-CHA | 2.03 | 127.42 | 123.86 |
| 21 | a | 1136 | CLA | O1D-CGD-CBD | -2.03 | 120.32 | 124.48 |
| 24 | 1 | 4003 | BCR | C1-C6-C7 | 2.03 | 121.53 | 115.78 |
| 21 | b | 1210 | CLA | C3D-C2D-C1D | -2.03 | 103.06 | 105.83 |
| 21 | A | 1104 | CLA | CMA-C3A-C4A | 2.03 | 117.23 | 111.77 |
| 24 | K | 4001 | BCR | C38-C26-C25 | -2.03 | 122.25 | 124.53 |
| 21 | 0 | 1501 | CLA | C3D-C2D-C1D | -2.03 | 103.06 | 105.83 |
| 21 | 1 | 1133 | CLA | CHA-C1A-NA | -2.03 | 121.75 | 126.40 |
| 24 | A | 4002 | BCR | C30-C25-C26 | -2.03 | 119.75 | 122.61 |
| 24 | 7 | 4013 | BCR | C39-C30-C25 | -2.03 | 107.00 | 110.30 |
| 21 | f | 1302 | CLA | CHA-C1A-NA | -2.03 | 121.75 | 126.40 |
| 21 | 2 | 1214 | CLA | CMD-C2D-C3D | -2.03 | 122.94 | 127.61 |
| 21 | b | 1232 | CLA | CHA-C1A-NA | -2.03 | 121.75 | 126.40 |
| 21 | a | 1108 | CLA | O2A-CGA-CBA | 2.03 | 118.28 | 111.91 |
| 21 | A | 1140 | CLA | CMD-C2D-C3D | -2.03 | 122.94 | 127.61 |
| 21 | B | 1221 | CLA | CHA-C1A-NA | -2.03 | 121.75 | 126.40 |
| 21 | 1 | 1116 | CLA | CHA-C1A-NA | -2.03 | 121.75 | 126.40 |
| 24 | 1 | 4001 | BCR | C37-C22-C23 | 2.03 | 121.28 | 118.08 |
| 21 | a | 1136 | CLA | CAA-CBA-CGA | -2.03 | 107.32 | 113.25 |
| 21 | 1 | 1117 | CLA | CHA-C1A-NA | -2.03 | 121.75 | 126.40 |
| 21 | 2 | 1203 | CLA | O2A-CGA-CBA | 2.03 | 118.28 | 111.91 |
| 21 | 1 | 1119 | CLA | CHA-C1A-NA | -2.03 | 121.75 | 126.40 |
| 21 | 0 | 1501 | CLA | O2D-CGD-O1D | -2.03 | 119.87 | 123.84 |
| 21 | 1 | 1126 | CLA | CHA-C1A-NA | -2.03 | 121.75 | 126.40 |
| 34 | 7 | 4015 | ZEX | C23-C24-C25 | -2.03 | 106.44 | 109.33 |
| 21 | a | 1129 | CLA | CMA-C3A-C4A | 2.03 | 117.22 | 111.77 |
| 34 | F | 4016 | ZEX | C31-C30-C29 | 2.03 | 130.20 | 127.31 |
| 21 | B | 1209 | CLA | O2A-CGA-CBA | 2.03 | 118.27 | 111.91 |
| 21 | 2 | 1239 | CLA | C1-O2A-CGA | 2.03 | 121.76 | 116.44 |
| 21 | 1 | 1502 | CLA | CMD-C2D-C3D | -2.03 | 122.95 | 127.61 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 24 | A | 4008 | BCR | C37-C22-C23 | 2.03 | 121.27 | 118.08 |
| 21 | a | 1134 | CLA | C3D-C2D-C1D | -2.03 | 103.07 | 105.83 |
| 24 | a | 4007 | BCR | C37-C22-C23 | 2.03 | 121.27 | 118.08 |
| 21 | L | 1503 | CLA | CMB-C2B-C1B | -2.02 | 125.35 | 128.46 |
| 21 | b | 1236 | CLA | CHA-C1A-NA | -2.02 | 121.76 | 126.40 |
| 21 | B | 1234 | CLA | O2A-CGA-CBA | 2.02 | 118.26 | 111.91 |
| 21 | 1 | 1105 | CLA | CHA-C1A-NA | -2.02 | 121.76 | 126.40 |
| 21 | B | 1240 | CLA | O2D-CGD-O1D | -2.02 | 119.88 | 123.84 |
| 31 | b | 5006 | SQD | O8-S-C6 | -2.02 | 102.52 | 105.74 |
| 21 | A | 1801 | CLA | C1-O2A-CGA | 2.02 | 121.75 | 116.44 |
| 21 | a | 1125 | CLA | CAA-CBA-CGA | -2.02 | 107.34 | 113.25 |
| 21 | a | 1124 | CLA | CMB-C2B-C3B | 2.02 | 128.46 | 124.68 |
| 21 | 1 | 1110 | CLA | CHA-C1A-NA | -2.02 | 121.77 | 126.40 |
| 21 | A | 1123 | CLA | C1-O2A-CGA | 2.02 | 121.75 | 116.44 |
| 21 | 2 | 1218 | CLA | CMD-C2D-C3D | -2.02 | 122.97 | 127.61 |
| 21 | 1 | 1134 | CLA | CHA-C1A-NA | -2.02 | 121.77 | 126.40 |
| 21 | A | 1102 | CLA | CMA-C3A-C4A | 2.02 | 117.20 | 111.77 |
| 24 | A | 4019 | BCR | C1-C6-C5 | -2.02 | 119.77 | 122.61 |
| 24 | a | 4019 | BCR | C19-C18-C17 | 2.02 | 122.04 | 118.94 |
| 21 | A | 1103 | CLA | C3D-C2D-C1D | -2.02 | 103.08 | 105.83 |
| 21 | B | 1225 | CLA | C3D-C2D-C1D | -2.02 | 103.08 | 105.83 |
| 21 | B | 1209 | CLA | C1-O2A-CGA | 2.02 | 121.74 | 116.44 |
| 21 | A | 1107 | CLA | CMB-C2B-C1B | -2.02 | 125.36 | 128.46 |
| 21 | 1 | 1121 | CLA | C3D-C2D-C1D | -2.02 | 103.08 | 105.83 |
| 21 | a | 1129 | CLA | O2A-CGA-CBA | 2.02 | 118.24 | 111.91 |
| 24 | 1 | 4007 | BCR | C31-C1-C6 | -2.02 | 107.03 | 110.30 |
| 21 | B | 1231 | CLA | CHA-C1A-NA | -2.02 | 121.78 | 126.40 |
| 21 | A | 1011 | CLA | C3D-C2D-C1D | -2.02 | 103.08 | 105.83 |
| 21 | A | 1132 | CLA | O2A-CGA-CBA | 2.02 | 118.24 | 111.91 |
| 21 | B | 1237 | CLA | CHA-C1A-NA | -2.02 | 121.78 | 126.40 |
| 21 | 2 | 1023 | CLA | C1D-ND-C4D | -2.02 | 104.90 | 106.33 |
| 21 | B | 1226 | CLA | CHA-C1A-NA | -2.02 | 121.78 | 126.40 |
| 21 | 1 | 1011 | CLA | CMD-C2D-C3D | -2.02 | 122.97 | 127.61 |
| 24 | J | 4013 | BCR | C8-C9-C10 | 2.02 | 122.03 | 118.94 |
| 21 | b | 1205 | CLA | CMD-C2D-C3D | -2.02 | 122.98 | 127.61 |
| 24 | J | 4013 | BCR | C35-C13-C14 | -2.02 | 120.10 | 122.92 |
| 21 | 2 | 1226 | CLA | C1D-ND-C4D | -2.02 | 104.90 | 106.33 |
| 21 | b | 1201 | CLA | CHA-C1A-NA | -2.02 | 121.78 | 126.40 |
| 21 | B | 1224 | CLA | CHA-C1A-NA | -2.02 | 121.78 | 126.40 |
| 21 | a | 1118 | CLA | CMD-C2D-C3D | -2.01 | 122.98 | 127.61 |
| 21 | A | 1125 | CLA | OBD-CAD-C3D | -2.01 | 123.67 | 128.52 |
| 21 | A | 1119 | CLA | CHA-C1A-NA | -2.01 | 121.79 | 126.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | A | 1132 | CLA | CMA-C3A-C4A | 2.01 | 117.18 | 111.77 |
| 21 | 0 | 1501 | CLA | CMD-C2D-C3D | -2.01 | 122.98 | 127.61 |
| 21 | 2 | 1225 | CLA | CHA-C1A-NA | -2.01 | 121.79 | 126.40 |
| 24 | I | 4018 | BCR | C10-C11-C12 | -2.01 | 116.94 | 123.22 |
| 21 | b | 1238 | CLA | CMD-C2D-C3D | -2.01 | 122.99 | 127.61 |
| 21 | 1 | 1501 | CLA | O2D-CGD-O1D | -2.01 | 119.91 | 123.84 |
| 21 | 2 | 1203 | CLA | CHA-C1A-NA | -2.01 | 121.79 | 126.40 |
| 21 | L | 1503 | CLA | C1-O2A-CGA | 2.01 | 121.72 | 116.44 |
| 31 | B | 5008 | SQD | O8-S-C6 | -2.01 | 102.54 | 105.74 |
| 21 | B | 1201 | CLA | CHA-C1A-NA | -2.01 | 121.79 | 126.40 |
| 21 | 1 | 1114 | CLA | CMB-C2B-C3B | 2.01 | 128.44 | 124.68 |
| 21 | b | 1224 | CLA | CMA-C3A-C4A | 2.01 | 117.17 | 111.77 |
| 24 | B | 4005 | BCR | C37-C22-C23 | 2.01 | 121.24 | 118.08 |
| 21 | 2 | 1225 | CLA | C3D-C2D-C1D | -2.01 | 103.09 | 105.83 |
| 21 | 1 | 1120 | CLA | CMD-C2D-C3D | -2.01 | 122.99 | 127.61 |
| 21 | L | 1502 | CLA | C11-C12-C13 | -2.01 | 109.43 | 115.92 |
| 21 | b | 1234 | CLA | CHA-C1A-NA | -2.01 | 121.80 | 126.40 |
| 21 | a | 1109 | CLA | O2A-CGA-CBA | 2.01 | 118.21 | 111.91 |
| 21 | A | 1115 | CLA | CHA-C1A-NA | -2.01 | 121.80 | 126.40 |
| 24 | 2 | 4011 | BCR | C38-C26-C25 | -2.01 | 122.27 | 124.53 |
| 24 | 2 | 4017 | BCR | C8-C9-C10 | 2.01 | 122.02 | 118.94 |
| 21 | B | 1226 | CLA | O2D-CGD-O1D | -2.01 | 119.91 | 123.84 |
| 21 | 1 | 1136 | CLA | C1-O2A-CGA | 2.01 | 121.71 | 116.44 |
| 21 | 2 | 1237 | CLA | C3D-C2D-C1D | -2.01 | 103.09 | 105.83 |
| 21 | A | 1123 | CLA | CMA-C3A-C2A | 2.01 | 121.92 | 113.83 |
| 21 | A | 1119 | CLA | CMD-C2D-C3D | -2.01 | 123.00 | 127.61 |
| 21 | A | 1140 | CLA | CHA-C1A-NA | -2.01 | 121.80 | 126.40 |
| 21 | 2 | 1228 | CLA | O2D-CGD-O1D | -2.01 | 119.92 | 123.84 |
| 24 | 2 | 4017 | BCR | C38-C26-C25 | -2.01 | 122.28 | 124.53 |
| 21 | a | 1120 | CLA | CAC-C3C-C4C | 2.01 | 127.41 | 124.81 |
| 24 | a | 4001 | BCR | C34-C9-C10 | -2.01 | 120.11 | 122.92 |
| 21 | A | 1108 | CLA | O2A-CGA-CBA | 2.00 | 118.20 | 111.91 |
| 21 | 2 | 1229 | CLA | O2A-CGA-CBA | 2.00 | 118.20 | 111.91 |
| 21 | b | 1215 | CLA | CMD-C2D-C3D | -2.00 | 123.00 | 127.61 |
| 21 | A | 1129 | CLA | CHA-C1A-NA | -2.00 | 121.81 | 126.40 |
| 21 | B | 1232 | CLA | CHA-C1A-NA | -2.00 | 121.81 | 126.40 |
| 21 | 2 | 1239 | CLA | CHA-C1A-NA | -2.00 | 121.81 | 126.40 |
| 26 | b | 5002 | LMG | O1-C1-C2 | 2.00 | 111.43 | 108.30 |
| 24 | 0 | 4022 | BCR | C1-C6-C5 | -2.00 | 119.79 | 122.61 |
| 28 | h | 4020 | 45D | C23-C25-C29 | -2.00 | 115.87 | 118.94 |
| 21 | b | 1230 | CLA | O2D-CGD-O1D | -2.00 | 119.92 | 123.84 |
| 26 | 0 | 5001 | LMG | O6-C5-C6 | 2.00 | 111.41 | 106.44 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 21 | b | 1214 | CLA | CHA-C1A-NA | -2.00 | 121.82 | 126.40 |
| 21 | b | 1209 | CLA | CAC-C3C-C4C | 2.00 | 127.41 | 124.81 |

All (256) chirality outliers are listed below:

| Mol | Chain | Res | Type | Atom |
|-----|-------|------|------|------|
| 21 | A | 1011 | CLA | ND |
| 21 | A | 1013 | CLA | ND |
| 21 | A | 1102 | CLA | ND |
| 21 | A | 1103 | CLA | ND |
| 21 | A | 1104 | CLA | ND |
| 21 | A | 1105 | CLA | ND |
| 21 | A | 1106 | CLA | ND |
| 21 | A | 1107 | CLA | ND |
| 21 | A | 1108 | CLA | ND |
| 21 | A | 1109 | CLA | ND |
| 21 | A | 1110 | CLA | ND |
| 21 | A | 1111 | CLA | ND |
| 21 | A | 1112 | CLA | ND |
| 21 | A | 1113 | CLA | ND |
| 21 | A | 1114 | CLA | ND |
| 21 | A | 1115 | CLA | ND |
| 21 | A | 1116 | CLA | ND |
| 21 | A | 1117 | CLA | ND |
| 21 | A | 1118 | CLA | ND |
| 21 | A | 1119 | CLA | ND |
| 21 | A | 1120 | CLA | ND |
| 21 | A | 1121 | CLA | ND |
| 21 | A | 1122 | CLA | ND |
| 21 | A | 1123 | CLA | ND |
| 21 | A | 1124 | CLA | ND |
| 21 | A | 1126 | CLA | ND |
| 21 | A | 1127 | CLA | ND |
| 21 | A | 1128 | CLA | ND |
| 21 | A | 1131 | CLA | ND |
| 21 | A | 1132 | CLA | ND |
| 21 | A | 1133 | CLA | ND |
| 21 | A | 1134 | CLA | ND |
| 21 | A | 1136 | CLA | ND |
| 21 | A | 1137 | CLA | ND |
| 21 | A | 1138 | CLA | ND |
| 21 | A | 1139 | CLA | ND |

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| Mol | Chain | Res | Type | Atom |
|------------|--------------|------------|-------------|-------------|
| 21 | A | 1140 | CLA | ND |
| 21 | A | 1130 | CLA | ND |
| 21 | A | 1801 | CLA | ND |
| 21 | A | 1012 | CLA | ND |
| 21 | B | 1022 | CLA | ND |
| 21 | B | 1237 | CLA | ND |
| 21 | B | 1021 | CLA | ND |
| 21 | B | 1023 | CLA | ND |
| 21 | B | 1201 | CLA | ND |
| 21 | B | 1202 | CLA | ND |
| 21 | B | 1203 | CLA | ND |
| 21 | B | 1204 | CLA | ND |
| 21 | B | 1205 | CLA | ND |
| 21 | B | 1206 | CLA | ND |
| 21 | B | 1208 | CLA | ND |
| 21 | B | 1211 | CLA | ND |
| 21 | B | 1212 | CLA | ND |
| 21 | B | 1213 | CLA | ND |
| 21 | B | 1214 | CLA | ND |
| 21 | B | 1215 | CLA | ND |
| 21 | B | 1216 | CLA | ND |
| 21 | B | 1217 | CLA | ND |
| 21 | B | 1218 | CLA | ND |
| 21 | B | 1220 | CLA | ND |
| 21 | B | 1221 | CLA | ND |
| 21 | B | 1222 | CLA | ND |
| 21 | B | 1223 | CLA | ND |
| 21 | B | 1224 | CLA | ND |
| 21 | B | 1225 | CLA | ND |
| 21 | B | 1226 | CLA | ND |
| 21 | B | 1228 | CLA | ND |
| 21 | B | 1229 | CLA | ND |
| 21 | B | 1232 | CLA | ND |
| 21 | B | 1235 | CLA | ND |
| 21 | B | 1236 | CLA | ND |
| 21 | B | 1238 | CLA | ND |
| 21 | B | 1239 | CLA | ND |
| 21 | B | 1240 | CLA | ND |
| 21 | B | 1230 | CLA | ND |
| 21 | F | 1301 | CLA | ND |
| 21 | F | 1302 | CLA | ND |
| 21 | J | 1302 | CLA | ND |

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| Mol | Chain | Res | Type | Atom |
|------------|--------------|------------|-------------|-------------|
| 21 | J | 1303 | CLA | ND |
| 21 | K | 1401 | CLA | ND |
| 21 | L | 1501 | CLA | ND |
| 21 | L | 1502 | CLA | ND |
| 21 | a | 1011 | CLA | ND |
| 21 | a | 1013 | CLA | ND |
| 21 | a | 1102 | CLA | ND |
| 21 | a | 1103 | CLA | ND |
| 21 | a | 1104 | CLA | ND |
| 21 | a | 1105 | CLA | ND |
| 21 | a | 1106 | CLA | ND |
| 21 | a | 1107 | CLA | ND |
| 21 | a | 1108 | CLA | ND |
| 21 | a | 1109 | CLA | ND |
| 21 | a | 1110 | CLA | ND |
| 21 | a | 1111 | CLA | ND |
| 21 | a | 1112 | CLA | ND |
| 21 | a | 1113 | CLA | ND |
| 21 | a | 1114 | CLA | ND |
| 21 | a | 1116 | CLA | ND |
| 21 | a | 1117 | CLA | ND |
| 21 | a | 1118 | CLA | ND |
| 21 | a | 1119 | CLA | ND |
| 21 | a | 1121 | CLA | ND |
| 21 | a | 1122 | CLA | ND |
| 21 | a | 1123 | CLA | ND |
| 21 | a | 1124 | CLA | ND |
| 21 | a | 1125 | CLA | ND |
| 21 | a | 1126 | CLA | ND |
| 21 | a | 1127 | CLA | ND |
| 21 | a | 1128 | CLA | ND |
| 21 | a | 1129 | CLA | ND |
| 21 | a | 1131 | CLA | ND |
| 21 | a | 1134 | CLA | ND |
| 21 | a | 1135 | CLA | ND |
| 21 | a | 1136 | CLA | ND |
| 21 | a | 1137 | CLA | ND |
| 21 | a | 1139 | CLA | ND |
| 21 | a | 1140 | CLA | ND |
| 21 | a | 1801 | CLA | ND |
| 21 | a | 1130 | CLA | ND |
| 21 | a | 1138 | CLA | ND |

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| Mol | Chain | Res | Type | Atom |
|------------|--------------|------------|-------------|-------------|
| 21 | a | 1132 | CLA | ND |
| 21 | a | 1012 | CLA | ND |
| 21 | b | 1022 | CLA | ND |
| 21 | b | 1237 | CLA | ND |
| 21 | b | 1021 | CLA | ND |
| 21 | b | 1023 | CLA | ND |
| 21 | b | 1202 | CLA | ND |
| 21 | b | 1203 | CLA | ND |
| 21 | b | 1204 | CLA | ND |
| 21 | b | 1205 | CLA | ND |
| 21 | b | 1206 | CLA | ND |
| 21 | b | 1208 | CLA | ND |
| 21 | b | 1211 | CLA | ND |
| 21 | b | 1213 | CLA | ND |
| 21 | b | 1214 | CLA | ND |
| 21 | b | 1215 | CLA | ND |
| 21 | b | 1216 | CLA | ND |
| 21 | b | 1217 | CLA | ND |
| 21 | b | 1218 | CLA | ND |
| 21 | b | 1219 | CLA | ND |
| 21 | b | 1220 | CLA | ND |
| 21 | b | 1221 | CLA | ND |
| 21 | b | 1222 | CLA | ND |
| 21 | b | 1223 | CLA | ND |
| 21 | b | 1224 | CLA | ND |
| 21 | b | 1225 | CLA | ND |
| 21 | b | 1226 | CLA | ND |
| 21 | b | 1227 | CLA | ND |
| 21 | b | 1228 | CLA | ND |
| 21 | b | 1229 | CLA | ND |
| 21 | b | 1231 | CLA | ND |
| 21 | b | 1232 | CLA | ND |
| 21 | b | 1234 | CLA | ND |
| 21 | b | 1235 | CLA | ND |
| 21 | b | 1236 | CLA | ND |
| 21 | b | 1238 | CLA | ND |
| 21 | b | 1239 | CLA | ND |
| 21 | b | 1240 | CLA | ND |
| 21 | b | 1230 | CLA | ND |
| 21 | b | 1201 | CLA | ND |
| 21 | f | 1301 | CLA | ND |
| 21 | f | 1302 | CLA | ND |

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| Mol | Chain | Res | Type | Atom |
|------------|--------------|------------|-------------|-------------|
| 21 | j | 1302 | CLA | ND |
| 21 | j | 1303 | CLA | ND |
| 21 | k | 1401 | CLA | ND |
| 21 | k | 1402 | CLA | ND |
| 21 | l | 1501 | CLA | ND |
| 21 | l | 1502 | CLA | ND |
| 21 | l | 1503 | CLA | ND |
| 21 | 1 | 1011 | CLA | ND |
| 21 | 1 | 1013 | CLA | ND |
| 21 | 1 | 1102 | CLA | ND |
| 21 | 1 | 1103 | CLA | ND |
| 21 | 1 | 1104 | CLA | ND |
| 21 | 1 | 1105 | CLA | ND |
| 21 | 1 | 1106 | CLA | ND |
| 21 | 1 | 1107 | CLA | ND |
| 21 | 1 | 1108 | CLA | ND |
| 21 | 1 | 1109 | CLA | ND |
| 21 | 1 | 1110 | CLA | ND |
| 21 | 1 | 1111 | CLA | ND |
| 21 | 1 | 1112 | CLA | ND |
| 21 | 1 | 1113 | CLA | ND |
| 21 | 1 | 1114 | CLA | ND |
| 21 | 1 | 1115 | CLA | ND |
| 21 | 1 | 1116 | CLA | ND |
| 21 | 1 | 1117 | CLA | ND |
| 21 | 1 | 1118 | CLA | ND |
| 21 | 1 | 1119 | CLA | ND |
| 21 | 1 | 1120 | CLA | ND |
| 21 | 1 | 1121 | CLA | ND |
| 21 | 1 | 1122 | CLA | ND |
| 21 | 1 | 1124 | CLA | ND |
| 21 | 1 | 1125 | CLA | ND |
| 21 | 1 | 1126 | CLA | ND |
| 21 | 1 | 1127 | CLA | ND |
| 21 | 1 | 1128 | CLA | ND |
| 21 | 1 | 1129 | CLA | ND |
| 21 | 1 | 1131 | CLA | ND |
| 21 | 1 | 1132 | CLA | ND |
| 21 | 1 | 1133 | CLA | ND |
| 21 | 1 | 1134 | CLA | ND |
| 21 | 1 | 1136 | CLA | ND |
| 21 | 1 | 1137 | CLA | ND |

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| Mol | Chain | Res | Type | Atom |
|------------|--------------|------------|-------------|-------------|
| 21 | 1 | 1138 | CLA | ND |
| 21 | 1 | 1140 | CLA | ND |
| 21 | 1 | 1801 | CLA | ND |
| 21 | 1 | 1130 | CLA | ND |
| 21 | 1 | 1139 | CLA | ND |
| 21 | 1 | 1012 | CLA | ND |
| 21 | 2 | 1022 | CLA | ND |
| 21 | 2 | 1237 | CLA | ND |
| 21 | 2 | 1021 | CLA | ND |
| 21 | 2 | 1023 | CLA | ND |
| 21 | 2 | 1201 | CLA | ND |
| 21 | 2 | 1202 | CLA | ND |
| 21 | 2 | 1203 | CLA | ND |
| 21 | 2 | 1204 | CLA | ND |
| 21 | 2 | 1205 | CLA | ND |
| 21 | 2 | 1206 | CLA | ND |
| 21 | 2 | 1208 | CLA | ND |
| 21 | 2 | 1211 | CLA | ND |
| 21 | 2 | 1212 | CLA | ND |
| 21 | 2 | 1213 | CLA | ND |
| 21 | 2 | 1214 | CLA | ND |
| 21 | 2 | 1215 | CLA | ND |
| 21 | 2 | 1216 | CLA | ND |
| 21 | 2 | 1217 | CLA | ND |
| 21 | 2 | 1218 | CLA | ND |
| 21 | 2 | 1220 | CLA | ND |
| 21 | 2 | 1221 | CLA | ND |
| 21 | 2 | 1222 | CLA | ND |
| 21 | 2 | 1224 | CLA | ND |
| 21 | 2 | 1225 | CLA | ND |
| 21 | 2 | 1226 | CLA | ND |
| 21 | 2 | 1227 | CLA | ND |
| 21 | 2 | 1228 | CLA | ND |
| 21 | 2 | 1229 | CLA | ND |
| 21 | 2 | 1231 | CLA | ND |
| 21 | 2 | 1232 | CLA | ND |
| 21 | 2 | 1234 | CLA | ND |
| 21 | 2 | 1235 | CLA | ND |
| 21 | 2 | 1236 | CLA | ND |
| 21 | 2 | 1238 | CLA | ND |
| 21 | 2 | 1239 | CLA | ND |
| 21 | 2 | 1230 | CLA | ND |

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| Mol | Chain | Res | Type | Atom |
|-----|-------|------|------|------|
| 21 | 6 | 1301 | CLA | ND |
| 21 | 6 | 1302 | CLA | ND |
| 21 | 7 | 1302 | CLA | ND |
| 21 | 7 | 1303 | CLA | ND |
| 21 | 8 | 1401 | CLA | ND |
| 21 | 8 | 1402 | CLA | ND |
| 21 | 0 | 1501 | CLA | ND |
| 21 | 0 | 1502 | CLA | ND |
| 21 | 0 | 1503 | CLA | ND |
| 34 | F | 4016 | ZEX | C24 |

All (6212) torsion outliers are listed below:

| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | A | 1102 | CLA | C11-C10-C8-C9 |
| 21 | A | 1103 | CLA | C1A-C2A-CAA-CBA |
| 21 | A | 1103 | CLA | C3A-C2A-CAA-CBA |
| 21 | A | 1103 | CLA | CHA-CBD-CGD-O1D |
| 21 | A | 1103 | CLA | CHA-CBD-CGD-O2D |
| 21 | A | 1103 | CLA | CAD-CBD-CGD-O1D |
| 21 | A | 1106 | CLA | C1A-C2A-CAA-CBA |
| 21 | A | 1106 | CLA | CHA-CBD-CGD-O2D |
| 21 | A | 1107 | CLA | C1A-C2A-CAA-CBA |
| 21 | A | 1107 | CLA | C2-C1-O2A-CGA |
| 21 | A | 1107 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1108 | CLA | C1A-C2A-CAA-CBA |
| 21 | A | 1110 | CLA | C1A-C2A-CAA-CBA |
| 21 | A | 1110 | CLA | C3A-C2A-CAA-CBA |
| 21 | A | 1111 | CLA | C3A-C2A-CAA-CBA |
| 21 | A | 1112 | CLA | C1A-C2A-CAA-CBA |
| 21 | A | 1112 | CLA | C3A-C2A-CAA-CBA |
| 21 | A | 1113 | CLA | CHA-CBD-CGD-O1D |
| 21 | A | 1113 | CLA | C2-C3-C5-C6 |
| 21 | A | 1113 | CLA | C4-C3-C5-C6 |
| 21 | A | 1114 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1116 | CLA | C3A-C2A-CAA-CBA |
| 21 | A | 1116 | CLA | C2-C3-C5-C6 |
| 21 | A | 1116 | CLA | C4-C3-C5-C6 |
| 21 | A | 1117 | CLA | CHA-CBD-CGD-O1D |
| 21 | A | 1117 | CLA | CHA-CBD-CGD-O2D |
| 21 | A | 1118 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1119 | CLA | C1A-C2A-CAA-CBA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | A | 1119 | CLA | C3A-C2A-CAA-CBA |
| 21 | A | 1119 | CLA | C11-C10-C8-C9 |
| 21 | A | 1121 | CLA | C1A-C2A-CAA-CBA |
| 21 | A | 1121 | CLA | C6-C7-C8-C9 |
| 21 | A | 1122 | CLA | C1A-C2A-CAA-CBA |
| 21 | A | 1122 | CLA | C2A-CAA-CBA-CGA |
| 21 | A | 1122 | CLA | CHA-CBD-CGD-O1D |
| 21 | A | 1122 | CLA | CHA-CBD-CGD-O2D |
| 21 | A | 1124 | CLA | C11-C12-C13-C14 |
| 21 | A | 1126 | CLA | C2-C1-O2A-CGA |
| 21 | A | 1126 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1127 | CLA | C2A-CAA-CBA-CGA |
| 21 | A | 1128 | CLA | C2-C1-O2A-CGA |
| 21 | A | 1128 | CLA | CHA-CBD-CGD-O1D |
| 21 | A | 1128 | CLA | CHA-CBD-CGD-O2D |
| 21 | A | 1128 | CLA | C2-C3-C5-C6 |
| 21 | A | 1128 | CLA | C4-C3-C5-C6 |
| 21 | A | 1129 | CLA | C6-C7-C8-C9 |
| 21 | A | 1131 | CLA | C6-C7-C8-C9 |
| 21 | A | 1132 | CLA | CHA-CBD-CGD-O1D |
| 21 | A | 1132 | CLA | CHA-CBD-CGD-O2D |
| 21 | A | 1134 | CLA | C1A-C2A-CAA-CBA |
| 21 | A | 1134 | CLA | CHA-CBD-CGD-O1D |
| 21 | A | 1134 | CLA | CHA-CBD-CGD-O2D |
| 21 | A | 1135 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1137 | CLA | CHA-CBD-CGD-O1D |
| 21 | A | 1137 | CLA | CHA-CBD-CGD-O2D |
| 21 | A | 1138 | CLA | CHA-CBD-CGD-O1D |
| 21 | A | 1138 | CLA | CHA-CBD-CGD-O2D |
| 21 | A | 1139 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1140 | CLA | C2-C1-O2A-CGA |
| 21 | A | 1140 | CLA | C11-C12-C13-C14 |
| 21 | A | 1801 | CLA | CHA-CBD-CGD-O1D |
| 21 | A | 1801 | CLA | CHA-CBD-CGD-O2D |
| 21 | A | 1801 | CLA | CAD-CBD-CGD-O1D |
| 21 | A | 1012 | CLA | CHA-CBD-CGD-O1D |
| 21 | A | 1012 | CLA | CHA-CBD-CGD-O2D |
| 21 | A | 1012 | CLA | CAD-CBD-CGD-O1D |
| 21 | A | 1012 | CLA | CAD-CBD-CGD-O2D |
| 21 | A | 1012 | CLA | C2-C3-C5-C6 |
| 21 | A | 1012 | CLA | C4-C3-C5-C6 |
| 21 | B | 1237 | CLA | CBA-CGA-O2A-C1 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | B | 1237 | CLA | O1A-CGA-O2A-C1 |
| 21 | B | 1237 | CLA | C2-C3-C5-C6 |
| 21 | B | 1237 | CLA | C4-C3-C5-C6 |
| 21 | B | 1021 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1021 | CLA | C2-C3-C5-C6 |
| 21 | B | 1021 | CLA | C4-C3-C5-C6 |
| 21 | B | 1201 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1202 | CLA | C3A-C2A-CAA-CBA |
| 21 | B | 1202 | CLA | CHA-CBD-CGD-O1D |
| 21 | B | 1202 | CLA | CHA-CBD-CGD-O2D |
| 21 | B | 1202 | CLA | CAD-CBD-CGD-O1D |
| 21 | B | 1203 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1204 | CLA | CHA-CBD-CGD-O1D |
| 21 | B | 1206 | CLA | C2-C1-O2A-CGA |
| 21 | B | 1208 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1209 | CLA | C1A-C2A-CAA-CBA |
| 21 | B | 1209 | CLA | C3A-C2A-CAA-CBA |
| 21 | B | 1209 | CLA | CHA-CBD-CGD-O2D |
| 21 | B | 1209 | CLA | C11-C10-C8-C9 |
| 21 | B | 1210 | CLA | C1A-C2A-CAA-CBA |
| 21 | B | 1212 | CLA | CHA-CBD-CGD-O1D |
| 21 | B | 1212 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1213 | CLA | C1A-C2A-CAA-CBA |
| 21 | B | 1214 | CLA | C6-C7-C8-C9 |
| 21 | B | 1215 | CLA | C1A-C2A-CAA-CBA |
| 21 | B | 1215 | CLA | C3A-C2A-CAA-CBA |
| 21 | B | 1215 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1215 | CLA | C2-C3-C5-C6 |
| 21 | B | 1215 | CLA | C4-C3-C5-C6 |
| 21 | B | 1216 | CLA | C1A-C2A-CAA-CBA |
| 21 | B | 1216 | CLA | C3A-C2A-CAA-CBA |
| 21 | B | 1217 | CLA | C1A-C2A-CAA-CBA |
| 21 | B | 1217 | CLA | C3A-C2A-CAA-CBA |
| 21 | B | 1217 | CLA | C14-C13-C15-C16 |
| 21 | B | 1218 | CLA | C1A-C2A-CAA-CBA |
| 21 | B | 1219 | CLA | C1A-C2A-CAA-CBA |
| 21 | B | 1219 | CLA | CBA-CGA-O2A-C1 |
| 21 | B | 1219 | CLA | O1A-CGA-O2A-C1 |
| 21 | B | 1220 | CLA | C6-C7-C8-C9 |
| 21 | B | 1221 | CLA | CHA-CBD-CGD-O2D |
| 21 | B | 1224 | CLA | C1A-C2A-CAA-CBA |
| 21 | B | 1224 | CLA | C3A-C2A-CAA-CBA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | B | 1224 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1225 | CLA | C1A-C2A-CAA-CBA |
| 21 | B | 1225 | CLA | C3A-C2A-CAA-CBA |
| 21 | B | 1226 | CLA | C4-C3-C5-C6 |
| 21 | B | 1226 | CLA | C14-C13-C15-C16 |
| 21 | B | 1227 | CLA | C1A-C2A-CAA-CBA |
| 21 | B | 1227 | CLA | C3A-C2A-CAA-CBA |
| 21 | B | 1227 | CLA | C2-C1-O2A-CGA |
| 21 | B | 1229 | CLA | C1A-C2A-CAA-CBA |
| 21 | B | 1229 | CLA | C3A-C2A-CAA-CBA |
| 21 | B | 1231 | CLA | C2-C1-O2A-CGA |
| 21 | B | 1234 | CLA | C1A-C2A-CAA-CBA |
| 21 | B | 1236 | CLA | C2-C1-O2A-CGA |
| 21 | B | 1239 | CLA | C1A-C2A-CAA-CBA |
| 21 | B | 1239 | CLA | C3A-C2A-CAA-CBA |
| 21 | B | 1239 | CLA | C2-C1-O2A-CGA |
| 21 | B | 1240 | CLA | C1A-C2A-CAA-CBA |
| 21 | B | 1240 | CLA | C3A-C2A-CAA-CBA |
| 21 | B | 1207 | CLA | C11-C12-C13-C14 |
| 21 | B | 1230 | CLA | C1A-C2A-CAA-CBA |
| 21 | B | 1230 | CLA | C3A-C2A-CAA-CBA |
| 21 | F | 1301 | CLA | C11-C10-C8-C7 |
| 21 | F | 1302 | CLA | C1A-C2A-CAA-CBA |
| 21 | F | 1302 | CLA | C3A-C2A-CAA-CBA |
| 21 | F | 1302 | CLA | CHA-CBD-CGD-O1D |
| 21 | F | 1302 | CLA | CHA-CBD-CGD-O2D |
| 21 | J | 1303 | CLA | C2A-CAA-CBA-CGA |
| 21 | J | 1303 | CLA | CHA-CBD-CGD-O1D |
| 21 | J | 1303 | CLA | CHA-CBD-CGD-O2D |
| 21 | J | 1303 | CLA | C12-C13-C15-C16 |
| 21 | L | 1501 | CLA | C1A-C2A-CAA-CBA |
| 21 | L | 1501 | CLA | C3A-C2A-CAA-CBA |
| 21 | L | 1502 | CLA | C1A-C2A-CAA-CBA |
| 21 | L | 1502 | CLA | C3A-C2A-CAA-CBA |
| 21 | L | 1503 | CLA | C1A-C2A-CAA-CBA |
| 21 | L | 1503 | CLA | C2-C3-C5-C6 |
| 21 | L | 1503 | CLA | C4-C3-C5-C6 |
| 21 | a | 1013 | CLA | C2-C1-O2A-CGA |
| 21 | a | 1013 | CLA | CHA-CBD-CGD-O1D |
| 21 | a | 1013 | CLA | CHA-CBD-CGD-O2D |
| 21 | a | 1103 | CLA | C1A-C2A-CAA-CBA |
| 21 | a | 1103 | CLA | C3A-C2A-CAA-CBA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | a | 1103 | CLA | CHA-CBD-CGD-O1D |
| 21 | a | 1103 | CLA | CAD-CBD-CGD-O1D |
| 21 | a | 1103 | CLA | CAD-CBD-CGD-O2D |
| 21 | a | 1103 | CLA | C2-C3-C5-C6 |
| 21 | a | 1103 | CLA | C4-C3-C5-C6 |
| 21 | a | 1106 | CLA | C3A-C2A-CAA-CBA |
| 21 | a | 1106 | CLA | CHA-CBD-CGD-O1D |
| 21 | a | 1106 | CLA | CHA-CBD-CGD-O2D |
| 21 | a | 1107 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1108 | CLA | C1A-C2A-CAA-CBA |
| 21 | a | 1108 | CLA | CHA-CBD-CGD-O1D |
| 21 | a | 1108 | CLA | CHA-CBD-CGD-O2D |
| 21 | a | 1109 | CLA | C1A-C2A-CAA-CBA |
| 21 | a | 1109 | CLA | C3A-C2A-CAA-CBA |
| 21 | a | 1109 | CLA | CHA-CBD-CGD-O1D |
| 21 | a | 1109 | CLA | CHA-CBD-CGD-O2D |
| 21 | a | 1109 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1110 | CLA | C1A-C2A-CAA-CBA |
| 21 | a | 1110 | CLA | C3A-C2A-CAA-CBA |
| 21 | a | 1111 | CLA | C3A-C2A-CAA-CBA |
| 21 | a | 1111 | CLA | CHA-CBD-CGD-O1D |
| 21 | a | 1111 | CLA | CHA-CBD-CGD-O2D |
| 21 | a | 1111 | CLA | C2-C3-C5-C6 |
| 21 | a | 1111 | CLA | C4-C3-C5-C6 |
| 21 | a | 1112 | CLA | C1A-C2A-CAA-CBA |
| 21 | a | 1112 | CLA | C3A-C2A-CAA-CBA |
| 21 | a | 1112 | CLA | C2-C1-O2A-CGA |
| 21 | a | 1112 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1113 | CLA | CHA-CBD-CGD-O1D |
| 21 | a | 1113 | CLA | CHA-CBD-CGD-O2D |
| 21 | a | 1114 | CLA | C1A-C2A-CAA-CBA |
| 21 | a | 1114 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1114 | CLA | O1A-CGA-O2A-C1 |
| 21 | a | 1114 | CLA | C3-C5-C6-C7 |
| 21 | a | 1116 | CLA | C3A-C2A-CAA-CBA |
| 21 | a | 1116 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1116 | CLA | C2-C3-C5-C6 |
| 21 | a | 1116 | CLA | C4-C3-C5-C6 |
| 21 | a | 1117 | CLA | C1A-C2A-CAA-CBA |
| 21 | a | 1117 | CLA | C3A-C2A-CAA-CBA |
| 21 | a | 1117 | CLA | CHA-CBD-CGD-O1D |
| 21 | a | 1117 | CLA | CHA-CBD-CGD-O2D |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | a | 1118 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1119 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1120 | CLA | C1A-C2A-CAA-CBA |
| 21 | a | 1121 | CLA | C1A-C2A-CAA-CBA |
| 21 | a | 1121 | CLA | C2-C3-C5-C6 |
| 21 | a | 1121 | CLA | C4-C3-C5-C6 |
| 21 | a | 1122 | CLA | C1A-C2A-CAA-CBA |
| 21 | a | 1122 | CLA | CHA-CBD-CGD-O1D |
| 21 | a | 1122 | CLA | CHA-CBD-CGD-O2D |
| 21 | a | 1123 | CLA | C2-C1-O2A-CGA |
| 21 | a | 1125 | CLA | C2-C1-O2A-CGA |
| 21 | a | 1126 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1128 | CLA | C2-C1-O2A-CGA |
| 21 | a | 1129 | CLA | C3A-C2A-CAA-CBA |
| 21 | a | 1133 | CLA | C2-C1-O2A-CGA |
| 21 | a | 1133 | CLA | C4-C3-C5-C6 |
| 21 | a | 1134 | CLA | C1A-C2A-CAA-CBA |
| 21 | a | 1134 | CLA | CHA-CBD-CGD-O1D |
| 21 | a | 1134 | CLA | CHA-CBD-CGD-O2D |
| 21 | a | 1135 | CLA | CHA-CBD-CGD-O1D |
| 21 | a | 1135 | CLA | CHA-CBD-CGD-O2D |
| 21 | a | 1140 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1801 | CLA | C1A-C2A-CAA-CBA |
| 21 | a | 1801 | CLA | C3A-C2A-CAA-CBA |
| 21 | a | 1801 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1130 | CLA | C4-C3-C5-C6 |
| 21 | a | 1138 | CLA | C2-C1-O2A-CGA |
| 21 | a | 1132 | CLA | CHA-CBD-CGD-O1D |
| 21 | a | 1132 | CLA | CHA-CBD-CGD-O2D |
| 21 | a | 1012 | CLA | CAD-CBD-CGD-O1D |
| 21 | a | 1012 | CLA | CAD-CBD-CGD-O2D |
| 21 | a | 1012 | CLA | C2-C3-C5-C6 |
| 21 | a | 1012 | CLA | C4-C3-C5-C6 |
| 21 | b | 1237 | CLA | CBA-CGA-O2A-C1 |
| 21 | b | 1237 | CLA | O1A-CGA-O2A-C1 |
| 21 | b | 1237 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1021 | CLA | C4-C3-C5-C6 |
| 21 | b | 1202 | CLA | C3A-C2A-CAA-CBA |
| 21 | b | 1205 | CLA | CHA-CBD-CGD-O1D |
| 21 | b | 1205 | CLA | CHA-CBD-CGD-O2D |
| 21 | b | 1206 | CLA | C2-C1-O2A-CGA |
| 21 | b | 1208 | CLA | C1A-C2A-CAA-CBA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | b | 1208 | CLA | C3A-C2A-CAA-CBA |
| 21 | b | 1208 | CLA | C2-C3-C5-C6 |
| 21 | b | 1208 | CLA | C4-C3-C5-C6 |
| 21 | b | 1209 | CLA | C1A-C2A-CAA-CBA |
| 21 | b | 1209 | CLA | C3A-C2A-CAA-CBA |
| 21 | b | 1209 | CLA | C4-C3-C5-C6 |
| 21 | b | 1209 | CLA | C6-C7-C8-C9 |
| 21 | b | 1210 | CLA | C1A-C2A-CAA-CBA |
| 21 | b | 1213 | CLA | C1A-C2A-CAA-CBA |
| 21 | b | 1213 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1214 | CLA | C6-C7-C8-C9 |
| 21 | b | 1215 | CLA | C1A-C2A-CAA-CBA |
| 21 | b | 1215 | CLA | C3A-C2A-CAA-CBA |
| 21 | b | 1215 | CLA | C2-C1-O2A-CGA |
| 21 | b | 1216 | CLA | C1A-C2A-CAA-CBA |
| 21 | b | 1216 | CLA | C3A-C2A-CAA-CBA |
| 21 | b | 1216 | CLA | C2-C1-O2A-CGA |
| 21 | b | 1216 | CLA | C4-C3-C5-C6 |
| 21 | b | 1217 | CLA | C3A-C2A-CAA-CBA |
| 21 | b | 1217 | CLA | C2-C3-C5-C6 |
| 21 | b | 1217 | CLA | C4-C3-C5-C6 |
| 21 | b | 1219 | CLA | C3A-C2A-CAA-CBA |
| 21 | b | 1219 | CLA | C2-C3-C5-C6 |
| 21 | b | 1219 | CLA | C4-C3-C5-C6 |
| 21 | b | 1220 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1222 | CLA | C2-C3-C5-C6 |
| 21 | b | 1222 | CLA | C4-C3-C5-C6 |
| 21 | b | 1223 | CLA | CHA-CBD-CGD-O1D |
| 21 | b | 1223 | CLA | CHA-CBD-CGD-O2D |
| 21 | b | 1224 | CLA | C3A-C2A-CAA-CBA |
| 21 | b | 1224 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1225 | CLA | C1A-C2A-CAA-CBA |
| 21 | b | 1225 | CLA | C3A-C2A-CAA-CBA |
| 21 | b | 1228 | CLA | C1A-C2A-CAA-CBA |
| 21 | b | 1229 | CLA | C1A-C2A-CAA-CBA |
| 21 | b | 1229 | CLA | C3A-C2A-CAA-CBA |
| 21 | b | 1229 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1231 | CLA | C2-C1-O2A-CGA |
| 21 | b | 1231 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1232 | CLA | C1A-C2A-CAA-CBA |
| 21 | b | 1232 | CLA | C3A-C2A-CAA-CBA |
| 21 | b | 1239 | CLA | C1A-C2A-CAA-CBA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | b | 1239 | CLA | C3A-C2A-CAA-CBA |
| 21 | b | 1239 | CLA | C2-C1-O2A-CGA |
| 21 | b | 1240 | CLA | C3A-C2A-CAA-CBA |
| 21 | b | 1240 | CLA | CAD-CBD-CGD-O1D |
| 21 | b | 1240 | CLA | CAD-CBD-CGD-O2D |
| 21 | b | 1230 | CLA | C3A-C2A-CAA-CBA |
| 21 | b | 1230 | CLA | C2-C1-O2A-CGA |
| 21 | b | 1230 | CLA | C2-C3-C5-C6 |
| 21 | b | 1230 | CLA | C4-C3-C5-C6 |
| 21 | f | 1301 | CLA | CBD-CGD-O2D-CED |
| 21 | f | 1302 | CLA | CHA-CBD-CGD-O1D |
| 21 | f | 1302 | CLA | CHA-CBD-CGD-O2D |
| 21 | f | 1302 | CLA | CAD-CBD-CGD-O1D |
| 21 | f | 1302 | CLA | CAD-CBD-CGD-O2D |
| 21 | f | 1302 | CLA | C6-C7-C8-C9 |
| 21 | j | 1302 | CLA | C2-C1-O2A-CGA |
| 21 | j | 1303 | CLA | C2-C1-O2A-CGA |
| 21 | k | 1401 | CLA | CHA-CBD-CGD-O1D |
| 21 | k | 1401 | CLA | CHA-CBD-CGD-O2D |
| 21 | k | 1402 | CLA | C2-C1-O2A-CGA |
| 21 | k | 1402 | CLA | CHA-CBD-CGD-O1D |
| 21 | k | 1402 | CLA | CHA-CBD-CGD-O2D |
| 21 | l | 1501 | CLA | C3A-C2A-CAA-CBA |
| 21 | l | 1501 | CLA | C2-C1-O2A-CGA |
| 21 | l | 1502 | CLA | CHA-CBD-CGD-O1D |
| 21 | l | 1502 | CLA | CHA-CBD-CGD-O2D |
| 21 | l | 1503 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1011 | CLA | C1A-C2A-CAA-CBA |
| 21 | 1 | 1102 | CLA | C3A-C2A-CAA-CBA |
| 21 | 1 | 1102 | CLA | CBA-CGA-O2A-C1 |
| 21 | 1 | 1102 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1102 | CLA | CHA-CBD-CGD-O1D |
| 21 | 1 | 1102 | CLA | CHA-CBD-CGD-O2D |
| 21 | 1 | 1102 | CLA | CAD-CBD-CGD-O1D |
| 21 | 1 | 1103 | CLA | C1A-C2A-CAA-CBA |
| 21 | 1 | 1103 | CLA | C3A-C2A-CAA-CBA |
| 21 | 1 | 1103 | CLA | CHA-CBD-CGD-O1D |
| 21 | 1 | 1104 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1106 | CLA | C1A-C2A-CAA-CBA |
| 21 | 1 | 1106 | CLA | C3A-C2A-CAA-CBA |
| 21 | 1 | 1106 | CLA | CHA-CBD-CGD-O1D |
| 21 | 1 | 1106 | CLA | CHA-CBD-CGD-O2D |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | 1 | 1106 | CLA | C14-C13-C15-C16 |
| 21 | 1 | 1107 | CLA | C1A-C2A-CAA-CBA |
| 21 | 1 | 1108 | CLA | C1A-C2A-CAA-CBA |
| 21 | 1 | 1108 | CLA | CHA-CBD-CGD-O1D |
| 21 | 1 | 1108 | CLA | CHA-CBD-CGD-O2D |
| 21 | 1 | 1108 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1109 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1109 | CLA | C4-C3-C5-C6 |
| 21 | 1 | 1110 | CLA | C1A-C2A-CAA-CBA |
| 21 | 1 | 1110 | CLA | C3A-C2A-CAA-CBA |
| 21 | 1 | 1111 | CLA | C3A-C2A-CAA-CBA |
| 21 | 1 | 1111 | CLA | CHA-CBD-CGD-O1D |
| 21 | 1 | 1111 | CLA | CHA-CBD-CGD-O2D |
| 21 | 1 | 1112 | CLA | C1A-C2A-CAA-CBA |
| 21 | 1 | 1112 | CLA | C3A-C2A-CAA-CBA |
| 21 | 1 | 1112 | CLA | C2-C1-O2A-CGA |
| 21 | 1 | 1112 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1113 | CLA | C2A-CAA-CBA-CGA |
| 21 | 1 | 1116 | CLA | C1A-C2A-CAA-CBA |
| 21 | 1 | 1116 | CLA | C3A-C2A-CAA-CBA |
| 21 | 1 | 1116 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1116 | CLA | C6-C7-C8-C9 |
| 21 | 1 | 1117 | CLA | C1A-C2A-CAA-CBA |
| 21 | 1 | 1117 | CLA | C3A-C2A-CAA-CBA |
| 21 | 1 | 1117 | CLA | CHA-CBD-CGD-O1D |
| 21 | 1 | 1117 | CLA | CHA-CBD-CGD-O2D |
| 21 | 1 | 1121 | CLA | C1A-C2A-CAA-CBA |
| 21 | 1 | 1121 | CLA | C3A-C2A-CAA-CBA |
| 21 | 1 | 1121 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1122 | CLA | CHA-CBD-CGD-O1D |
| 21 | 1 | 1122 | CLA | CHA-CBD-CGD-O2D |
| 21 | 1 | 1123 | CLA | C2-C1-O2A-CGA |
| 21 | 1 | 1124 | CLA | C6-C7-C8-C9 |
| 21 | 1 | 1125 | CLA | C1A-C2A-CAA-CBA |
| 21 | 1 | 1125 | CLA | C3A-C2A-CAA-CBA |
| 21 | 1 | 1126 | CLA | C1A-C2A-CAA-CBA |
| 21 | 1 | 1126 | CLA | C3A-C2A-CAA-CBA |
| 21 | 1 | 1126 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1126 | CLA | C2-C3-C5-C6 |
| 21 | 1 | 1126 | CLA | C4-C3-C5-C6 |
| 21 | 1 | 1127 | CLA | C2-C3-C5-C6 |
| 21 | 1 | 1127 | CLA | C4-C3-C5-C6 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | 1 | 1128 | CLA | C2-C1-O2A-CGA |
| 21 | 1 | 1128 | CLA | CHA-CBD-CGD-O1D |
| 21 | 1 | 1128 | CLA | CHA-CBD-CGD-O2D |
| 21 | 1 | 1129 | CLA | C1A-C2A-CAA-CBA |
| 21 | 1 | 1129 | CLA | C3A-C2A-CAA-CBA |
| 21 | 1 | 1132 | CLA | CHA-CBD-CGD-O1D |
| 21 | 1 | 1132 | CLA | CHA-CBD-CGD-O2D |
| 21 | 1 | 1133 | CLA | C2-C1-O2A-CGA |
| 21 | 1 | 1134 | CLA | C2-C1-O2A-CGA |
| 21 | 1 | 1134 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1134 | CLA | C4-C3-C5-C6 |
| 21 | 1 | 1135 | CLA | C4-C3-C5-C6 |
| 21 | 1 | 1135 | CLA | C3-C5-C6-C7 |
| 21 | 1 | 1136 | CLA | CHA-CBD-CGD-O1D |
| 21 | 1 | 1136 | CLA | CHA-CBD-CGD-O2D |
| 21 | 1 | 1137 | CLA | CHA-CBD-CGD-O1D |
| 21 | 1 | 1138 | CLA | C2-C1-O2A-CGA |
| 21 | 1 | 1138 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1140 | CLA | C2-C1-O2A-CGA |
| 21 | 1 | 1140 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1801 | CLA | CBA-CGA-O2A-C1 |
| 21 | 1 | 1801 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1801 | CLA | CAD-CBD-CGD-O1D |
| 21 | 1 | 1801 | CLA | CAD-CBD-CGD-O2D |
| 21 | 1 | 1130 | CLA | C2-C3-C5-C6 |
| 21 | 1 | 1130 | CLA | C4-C3-C5-C6 |
| 21 | 1 | 1139 | CLA | CHA-CBD-CGD-O1D |
| 21 | 1 | 1139 | CLA | CHA-CBD-CGD-O2D |
| 21 | 1 | 1139 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1012 | CLA | CHA-CBD-CGD-O1D |
| 21 | 1 | 1012 | CLA | CHA-CBD-CGD-O2D |
| 21 | 1 | 1012 | CLA | CAD-CBD-CGD-O1D |
| 21 | 1 | 1012 | CLA | CAD-CBD-CGD-O2D |
| 21 | 1 | 1012 | CLA | C4-C3-C5-C6 |
| 21 | 2 | 1021 | CLA | CHA-CBD-CGD-O1D |
| 21 | 2 | 1021 | CLA | CHA-CBD-CGD-O2D |
| 21 | 2 | 1023 | CLA | CHA-CBD-CGD-O1D |
| 21 | 2 | 1023 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1202 | CLA | C3A-C2A-CAA-CBA |
| 21 | 2 | 1203 | CLA | C2-C3-C5-C6 |
| 21 | 2 | 1203 | CLA | C4-C3-C5-C6 |
| 21 | 2 | 1204 | CLA | CHA-CBD-CGD-O1D |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | 2 | 1204 | CLA | CHA-CBD-CGD-O2D |
| 21 | 2 | 1206 | CLA | C2-C1-O2A-CGA |
| 21 | 2 | 1206 | CLA | C14-C13-C15-C16 |
| 21 | 2 | 1207 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1208 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1209 | CLA | C1A-C2A-CAA-CBA |
| 21 | 2 | 1209 | CLA | C3A-C2A-CAA-CBA |
| 21 | 2 | 1210 | CLA | C1A-C2A-CAA-CBA |
| 21 | 2 | 1210 | CLA | C3A-C2A-CAA-CBA |
| 21 | 2 | 1211 | CLA | C1A-C2A-CAA-CBA |
| 21 | 2 | 1211 | CLA | C3A-C2A-CAA-CBA |
| 21 | 2 | 1211 | CLA | CHA-CBD-CGD-O1D |
| 21 | 2 | 1211 | CLA | CHA-CBD-CGD-O2D |
| 21 | 2 | 1212 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1213 | CLA | CHA-CBD-CGD-O1D |
| 21 | 2 | 1213 | CLA | CHA-CBD-CGD-O2D |
| 21 | 2 | 1215 | CLA | C1A-C2A-CAA-CBA |
| 21 | 2 | 1215 | CLA | C3A-C2A-CAA-CBA |
| 21 | 2 | 1215 | CLA | C2-C1-O2A-CGA |
| 21 | 2 | 1217 | CLA | C1A-C2A-CAA-CBA |
| 21 | 2 | 1217 | CLA | C3A-C2A-CAA-CBA |
| 21 | 2 | 1217 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1218 | CLA | C3A-C2A-CAA-CBA |
| 21 | 2 | 1218 | CLA | CBA-CGA-O2A-C1 |
| 21 | 2 | 1218 | CLA | O1A-CGA-O2A-C1 |
| 21 | 2 | 1218 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1218 | CLA | C14-C13-C15-C16 |
| 21 | 2 | 1219 | CLA | C1A-C2A-CAA-CBA |
| 21 | 2 | 1219 | CLA | C2-C1-O2A-CGA |
| 21 | 2 | 1221 | CLA | CHA-CBD-CGD-O2D |
| 21 | 2 | 1222 | CLA | C3A-C2A-CAA-CBA |
| 21 | 2 | 1223 | CLA | CHA-CBD-CGD-O1D |
| 21 | 2 | 1223 | CLA | CHA-CBD-CGD-O2D |
| 21 | 2 | 1224 | CLA | C1A-C2A-CAA-CBA |
| 21 | 2 | 1224 | CLA | C3A-C2A-CAA-CBA |
| 21 | 2 | 1225 | CLA | C1A-C2A-CAA-CBA |
| 21 | 2 | 1225 | CLA | C3A-C2A-CAA-CBA |
| 21 | 2 | 1226 | CLA | CHA-CBD-CGD-O1D |
| 21 | 2 | 1226 | CLA | CHA-CBD-CGD-O2D |
| 21 | 2 | 1226 | CLA | CAD-CBD-CGD-O1D |
| 21 | 2 | 1227 | CLA | CHA-CBD-CGD-O1D |
| 21 | 2 | 1227 | CLA | CHA-CBD-CGD-O2D |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | 2 | 1228 | CLA | C1A-C2A-CAA-CBA |
| 21 | 2 | 1228 | CLA | C3A-C2A-CAA-CBA |
| 21 | 2 | 1228 | CLA | CHA-CBD-CGD-O1D |
| 21 | 2 | 1228 | CLA | CHA-CBD-CGD-O2D |
| 21 | 2 | 1229 | CLA | C1A-C2A-CAA-CBA |
| 21 | 2 | 1229 | CLA | C3A-C2A-CAA-CBA |
| 21 | 2 | 1229 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1229 | CLA | C11-C12-C13-C15 |
| 21 | 2 | 1231 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1232 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1234 | CLA | C1A-C2A-CAA-CBA |
| 21 | 2 | 1234 | CLA | C3A-C2A-CAA-CBA |
| 21 | 2 | 1234 | CLA | CHA-CBD-CGD-O1D |
| 21 | 2 | 1234 | CLA | CHA-CBD-CGD-O2D |
| 21 | 2 | 1235 | CLA | CHA-CBD-CGD-O1D |
| 21 | 2 | 1235 | CLA | CHA-CBD-CGD-O2D |
| 21 | 2 | 1236 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1239 | CLA | C1A-C2A-CAA-CBA |
| 21 | 2 | 1239 | CLA | C3A-C2A-CAA-CBA |
| 21 | 2 | 1239 | CLA | C2-C1-O2A-CGA |
| 21 | 2 | 1239 | CLA | CHA-CBD-CGD-O1D |
| 21 | 2 | 1230 | CLA | C3A-C2A-CAA-CBA |
| 21 | 7 | 1302 | CLA | CBD-CGD-O2D-CED |
| 21 | 7 | 1303 | CLA | CBD-CGD-O2D-CED |
| 21 | 8 | 1401 | CLA | C1A-C2A-CAA-CBA |
| 21 | 8 | 1401 | CLA | C3A-C2A-CAA-CBA |
| 21 | 8 | 1402 | CLA | CBA-CGA-O2A-C1 |
| 21 | 0 | 1501 | CLA | C1A-C2A-CAA-CBA |
| 21 | 0 | 1501 | CLA | C3A-C2A-CAA-CBA |
| 24 | A | 4001 | BCR | C11-C10-C9-C8 |
| 24 | A | 4001 | BCR | C11-C10-C9-C34 |
| 24 | A | 4001 | BCR | C11-C12-C13-C14 |
| 24 | A | 4001 | BCR | C11-C12-C13-C35 |
| 24 | A | 4002 | BCR | C1-C6-C7-C8 |
| 24 | A | 4002 | BCR | C11-C10-C9-C8 |
| 24 | A | 4002 | BCR | C11-C10-C9-C34 |
| 24 | A | 4002 | BCR | C11-C12-C13-C14 |
| 24 | A | 4002 | BCR | C11-C12-C13-C35 |
| 24 | A | 4003 | BCR | C1-C6-C7-C8 |
| 24 | A | 4003 | BCR | C11-C10-C9-C8 |
| 24 | A | 4003 | BCR | C11-C10-C9-C34 |
| 24 | A | 4003 | BCR | C13-C14-C15-C16 |

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| Mol | Chain | Res | Type | Atoms |
|------------|--------------|------------|-------------|-----------------|
| 24 | A | 4003 | BCR | C36-C18-C19-C20 |
| 24 | A | 4003 | BCR | C21-C22-C23-C24 |
| 24 | A | 4003 | BCR | C37-C22-C23-C24 |
| 24 | A | 4007 | BCR | C11-C12-C13-C14 |
| 24 | A | 4007 | BCR | C11-C12-C13-C35 |
| 24 | A | 4008 | BCR | C23-C24-C25-C26 |
| 24 | A | 4019 | BCR | C7-C8-C9-C10 |
| 24 | A | 4019 | BCR | C7-C8-C9-C34 |
| 24 | A | 4012 | BCR | C5-C6-C7-C8 |
| 24 | A | 4012 | BCR | C11-C10-C9-C8 |
| 24 | A | 4012 | BCR | C11-C10-C9-C34 |
| 24 | A | 4012 | BCR | C11-C12-C13-C14 |
| 24 | A | 4012 | BCR | C11-C12-C13-C35 |
| 24 | B | 4004 | BCR | C1-C6-C7-C8 |
| 24 | B | 4004 | BCR | C5-C6-C7-C8 |
| 24 | B | 4004 | BCR | C7-C8-C9-C34 |
| 24 | B | 4004 | BCR | C11-C10-C9-C8 |
| 24 | B | 4004 | BCR | C11-C10-C9-C34 |
| 24 | B | 4004 | BCR | C11-C12-C13-C14 |
| 24 | B | 4004 | BCR | C11-C12-C13-C35 |
| 24 | B | 4004 | BCR | C21-C22-C23-C24 |
| 24 | B | 4004 | BCR | C37-C22-C23-C24 |
| 24 | B | 4004 | BCR | C23-C24-C25-C26 |
| 24 | B | 4004 | BCR | C23-C24-C25-C30 |
| 24 | B | 4005 | BCR | C11-C10-C9-C8 |
| 24 | B | 4005 | BCR | C11-C10-C9-C34 |
| 24 | B | 4005 | BCR | C13-C14-C15-C16 |
| 24 | B | 4005 | BCR | C17-C18-C19-C20 |
| 24 | B | 4005 | BCR | C36-C18-C19-C20 |
| 24 | B | 4005 | BCR | C37-C22-C23-C24 |
| 24 | B | 4010 | BCR | C11-C10-C9-C8 |
| 24 | B | 4010 | BCR | C11-C10-C9-C34 |
| 24 | B | 4010 | BCR | C10-C11-C12-C13 |
| 24 | B | 4010 | BCR | C17-C18-C19-C20 |
| 24 | B | 4010 | BCR | C36-C18-C19-C20 |
| 24 | B | 4017 | BCR | C11-C10-C9-C8 |
| 24 | B | 4017 | BCR | C11-C10-C9-C34 |
| 24 | B | 4017 | BCR | C10-C11-C12-C13 |
| 24 | B | 4017 | BCR | C11-C12-C13-C14 |
| 24 | B | 4017 | BCR | C11-C12-C13-C35 |
| 24 | B | 4017 | BCR | C17-C18-C19-C20 |
| 24 | B | 4017 | BCR | C36-C18-C19-C20 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 24 | B | 4018 | BCR | C17-C18-C19-C20 |
| 24 | B | 4018 | BCR | C36-C18-C19-C20 |
| 24 | B | 4018 | BCR | C18-C19-C20-C21 |
| 24 | B | 4014 | BCR | C11-C10-C9-C8 |
| 24 | B | 4014 | BCR | C11-C10-C9-C34 |
| 24 | B | 4014 | BCR | C21-C22-C23-C24 |
| 24 | B | 4014 | BCR | C37-C22-C23-C24 |
| 24 | I | 4018 | BCR | C11-C10-C9-C34 |
| 24 | I | 4018 | BCR | C19-C20-C21-C22 |
| 24 | J | 4013 | BCR | C1-C6-C7-C8 |
| 24 | J | 4013 | BCR | C7-C8-C9-C34 |
| 24 | J | 4013 | BCR | C11-C10-C9-C8 |
| 24 | J | 4013 | BCR | C11-C10-C9-C34 |
| 24 | J | 4013 | BCR | C10-C11-C12-C13 |
| 24 | J | 4013 | BCR | C15-C16-C17-C18 |
| 24 | J | 4013 | BCR | C17-C18-C19-C20 |
| 24 | J | 4013 | BCR | C36-C18-C19-C20 |
| 24 | K | 4001 | BCR | C1-C6-C7-C8 |
| 24 | K | 4001 | BCR | C11-C10-C9-C8 |
| 24 | K | 4001 | BCR | C11-C10-C9-C34 |
| 24 | K | 4001 | BCR | C15-C16-C17-C18 |
| 24 | K | 4001 | BCR | C17-C18-C19-C20 |
| 24 | K | 4001 | BCR | C36-C18-C19-C20 |
| 24 | L | 4019 | BCR | C7-C8-C9-C34 |
| 24 | L | 4022 | BCR | C1-C6-C7-C8 |
| 24 | L | 4022 | BCR | C11-C10-C9-C8 |
| 24 | L | 4022 | BCR | C11-C10-C9-C34 |
| 24 | L | 4022 | BCR | C10-C11-C12-C13 |
| 24 | L | 4022 | BCR | C17-C18-C19-C20 |
| 24 | L | 4022 | BCR | C36-C18-C19-C20 |
| 24 | a | 4001 | BCR | C11-C10-C9-C8 |
| 24 | a | 4001 | BCR | C11-C10-C9-C34 |
| 24 | a | 4001 | BCR | C10-C11-C12-C13 |
| 24 | a | 4001 | BCR | C11-C12-C13-C14 |
| 24 | a | 4001 | BCR | C11-C12-C13-C35 |
| 24 | a | 4001 | BCR | C17-C18-C19-C20 |
| 24 | a | 4001 | BCR | C36-C18-C19-C20 |
| 24 | a | 4002 | BCR | C11-C10-C9-C8 |
| 24 | a | 4002 | BCR | C11-C10-C9-C34 |
| 24 | a | 4002 | BCR | C11-C12-C13-C14 |
| 24 | a | 4002 | BCR | C11-C12-C13-C35 |
| 24 | a | 4002 | BCR | C21-C22-C23-C24 |

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| Mol | Chain | Res | Type | Atoms |
|------------|--------------|------------|-------------|-----------------|
| 24 | a | 4002 | BCR | C37-C22-C23-C24 |
| 24 | a | 4003 | BCR | C11-C10-C9-C8 |
| 24 | a | 4003 | BCR | C11-C10-C9-C34 |
| 24 | a | 4007 | BCR | C11-C10-C9-C8 |
| 24 | a | 4007 | BCR | C11-C10-C9-C34 |
| 24 | a | 4007 | BCR | C17-C18-C19-C20 |
| 24 | a | 4007 | BCR | C36-C18-C19-C20 |
| 24 | a | 4008 | BCR | C11-C10-C9-C8 |
| 24 | a | 4008 | BCR | C11-C10-C9-C34 |
| 24 | a | 4008 | BCR | C13-C14-C15-C16 |
| 24 | a | 4008 | BCR | C17-C18-C19-C20 |
| 24 | a | 4008 | BCR | C36-C18-C19-C20 |
| 24 | a | 4008 | BCR | C23-C24-C25-C30 |
| 24 | a | 4019 | BCR | C11-C10-C9-C8 |
| 24 | a | 4019 | BCR | C11-C10-C9-C34 |
| 24 | a | 4019 | BCR | C10-C11-C12-C13 |
| 24 | a | 4019 | BCR | C17-C18-C19-C20 |
| 24 | a | 4019 | BCR | C36-C18-C19-C20 |
| 24 | a | 4019 | BCR | C21-C22-C23-C24 |
| 24 | a | 4019 | BCR | C37-C22-C23-C24 |
| 24 | a | 4012 | BCR | C1-C6-C7-C8 |
| 24 | a | 4012 | BCR | C11-C10-C9-C8 |
| 24 | a | 4012 | BCR | C11-C10-C9-C34 |
| 24 | b | 4004 | BCR | C1-C6-C7-C8 |
| 24 | b | 4004 | BCR | C5-C6-C7-C8 |
| 24 | b | 4004 | BCR | C11-C10-C9-C8 |
| 24 | b | 4004 | BCR | C11-C10-C9-C34 |
| 24 | b | 4004 | BCR | C10-C11-C12-C13 |
| 24 | b | 4004 | BCR | C23-C24-C25-C26 |
| 24 | b | 4004 | BCR | C23-C24-C25-C30 |
| 24 | b | 4005 | BCR | C1-C6-C7-C8 |
| 24 | b | 4005 | BCR | C11-C10-C9-C8 |
| 24 | b | 4005 | BCR | C11-C10-C9-C34 |
| 24 | b | 4005 | BCR | C10-C11-C12-C13 |
| 24 | b | 4005 | BCR | C36-C18-C19-C20 |
| 24 | b | 4010 | BCR | C17-C18-C19-C20 |
| 24 | b | 4010 | BCR | C36-C18-C19-C20 |
| 24 | b | 4017 | BCR | C11-C10-C9-C8 |
| 24 | b | 4017 | BCR | C11-C10-C9-C34 |
| 24 | b | 4017 | BCR | C11-C12-C13-C14 |
| 24 | b | 4017 | BCR | C17-C18-C19-C20 |
| 24 | b | 4017 | BCR | C36-C18-C19-C20 |

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| Mol | Chain | Res | Type | Atoms |
|------------|--------------|------------|-------------|-----------------|
| 24 | b | 4018 | BCR | C23-C24-C25-C26 |
| 24 | b | 4018 | BCR | C23-C24-C25-C30 |
| 24 | b | 4014 | BCR | C11-C10-C9-C8 |
| 24 | b | 4014 | BCR | C11-C10-C9-C34 |
| 24 | b | 4014 | BCR | C21-C22-C23-C24 |
| 24 | b | 4014 | BCR | C37-C22-C23-C24 |
| 24 | f | 4016 | BCR | C10-C11-C12-C13 |
| 24 | f | 4016 | BCR | C11-C12-C13-C14 |
| 24 | f | 4016 | BCR | C11-C12-C13-C35 |
| 24 | f | 4016 | BCR | C21-C22-C23-C24 |
| 24 | f | 4016 | BCR | C37-C22-C23-C24 |
| 24 | i | 4018 | BCR | C11-C10-C9-C8 |
| 24 | i | 4018 | BCR | C11-C10-C9-C34 |
| 24 | i | 4018 | BCR | C10-C11-C12-C13 |
| 24 | i | 4018 | BCR | C11-C12-C13-C35 |
| 24 | i | 4018 | BCR | C17-C18-C19-C20 |
| 24 | i | 4018 | BCR | C36-C18-C19-C20 |
| 24 | j | 4013 | BCR | C11-C10-C9-C8 |
| 24 | j | 4013 | BCR | C11-C10-C9-C34 |
| 24 | j | 4013 | BCR | C23-C24-C25-C26 |
| 24 | j | 4013 | BCR | C23-C24-C25-C30 |
| 24 | k | 4001 | BCR | C11-C10-C9-C8 |
| 24 | k | 4001 | BCR | C11-C10-C9-C34 |
| 24 | k | 4001 | BCR | C10-C11-C12-C13 |
| 24 | k | 4001 | BCR | C17-C18-C19-C20 |
| 24 | k | 4001 | BCR | C36-C18-C19-C20 |
| 24 | l | 4019 | BCR | C7-C8-C9-C10 |
| 24 | l | 4019 | BCR | C7-C8-C9-C34 |
| 24 | l | 4019 | BCR | C23-C24-C25-C26 |
| 24 | l | 4022 | BCR | C7-C8-C9-C10 |
| 24 | l | 4022 | BCR | C7-C8-C9-C34 |
| 24 | l | 4022 | BCR | C10-C11-C12-C13 |
| 24 | l | 4022 | BCR | C11-C12-C13-C14 |
| 24 | l | 4022 | BCR | C11-C12-C13-C35 |
| 24 | l | 4022 | BCR | C21-C22-C23-C24 |
| 24 | l | 4022 | BCR | C37-C22-C23-C24 |
| 24 | 1 | 4001 | BCR | C11-C10-C9-C8 |
| 24 | 1 | 4001 | BCR | C11-C10-C9-C34 |
| 24 | 1 | 4001 | BCR | C10-C11-C12-C13 |
| 24 | 1 | 4002 | BCR | C11-C10-C9-C8 |
| 24 | 1 | 4002 | BCR | C11-C10-C9-C34 |
| 24 | 1 | 4002 | BCR | C13-C14-C15-C16 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 24 | 1 | 4002 | BCR | C17-C18-C19-C20 |
| 24 | 1 | 4002 | BCR | C36-C18-C19-C20 |
| 24 | 1 | 4002 | BCR | C21-C22-C23-C24 |
| 24 | 1 | 4002 | BCR | C37-C22-C23-C24 |
| 24 | 1 | 4003 | BCR | C1-C6-C7-C8 |
| 24 | 1 | 4003 | BCR | C11-C10-C9-C8 |
| 24 | 1 | 4003 | BCR | C11-C10-C9-C34 |
| 24 | 1 | 4007 | BCR | C11-C10-C9-C8 |
| 24 | 1 | 4007 | BCR | C11-C10-C9-C34 |
| 24 | 1 | 4007 | BCR | C21-C22-C23-C24 |
| 24 | 1 | 4007 | BCR | C37-C22-C23-C24 |
| 24 | 1 | 4007 | BCR | C23-C24-C25-C30 |
| 24 | 1 | 4019 | BCR | C7-C8-C9-C10 |
| 24 | 1 | 4019 | BCR | C7-C8-C9-C34 |
| 24 | 1 | 4019 | BCR | C10-C11-C12-C13 |
| 24 | 1 | 4019 | BCR | C17-C18-C19-C20 |
| 24 | 1 | 4019 | BCR | C36-C18-C19-C20 |
| 24 | 1 | 4012 | BCR | C11-C10-C9-C8 |
| 24 | 1 | 4012 | BCR | C11-C10-C9-C34 |
| 24 | 1 | 4012 | BCR | C11-C12-C13-C14 |
| 24 | 1 | 4012 | BCR | C11-C12-C13-C35 |
| 24 | 1 | 4012 | BCR | C21-C22-C23-C24 |
| 24 | 2 | 4011 | BCR | C7-C8-C9-C10 |
| 24 | 2 | 4011 | BCR | C7-C8-C9-C34 |
| 24 | 2 | 4011 | BCR | C17-C18-C19-C20 |
| 24 | 2 | 4011 | BCR | C36-C18-C19-C20 |
| 24 | 2 | 4011 | BCR | C21-C22-C23-C24 |
| 24 | 2 | 4011 | BCR | C37-C22-C23-C24 |
| 24 | 2 | 4004 | BCR | C1-C6-C7-C8 |
| 24 | 2 | 4004 | BCR | C5-C6-C7-C8 |
| 24 | 2 | 4004 | BCR | C7-C8-C9-C10 |
| 24 | 2 | 4004 | BCR | C7-C8-C9-C34 |
| 24 | 2 | 4004 | BCR | C11-C10-C9-C8 |
| 24 | 2 | 4004 | BCR | C11-C10-C9-C34 |
| 24 | 2 | 4004 | BCR | C11-C12-C13-C14 |
| 24 | 2 | 4004 | BCR | C11-C12-C13-C35 |
| 24 | 2 | 4004 | BCR | C17-C18-C19-C20 |
| 24 | 2 | 4004 | BCR | C36-C18-C19-C20 |
| 24 | 2 | 4005 | BCR | C11-C10-C9-C8 |
| 24 | 2 | 4005 | BCR | C11-C10-C9-C34 |
| 24 | 2 | 4005 | BCR | C10-C11-C12-C13 |
| 24 | 2 | 4005 | BCR | C17-C18-C19-C20 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 24 | 2 | 4005 | BCR | C36-C18-C19-C20 |
| 24 | 2 | 4005 | BCR | C21-C22-C23-C24 |
| 24 | 2 | 4005 | BCR | C37-C22-C23-C24 |
| 24 | 2 | 4010 | BCR | C11-C10-C9-C8 |
| 24 | 2 | 4010 | BCR | C11-C10-C9-C34 |
| 24 | 2 | 4010 | BCR | C11-C12-C13-C14 |
| 24 | 2 | 4010 | BCR | C11-C12-C13-C35 |
| 24 | 2 | 4010 | BCR | C17-C18-C19-C20 |
| 24 | 2 | 4010 | BCR | C36-C18-C19-C20 |
| 24 | 2 | 4010 | BCR | C18-C19-C20-C21 |
| 24 | 2 | 4017 | BCR | C11-C10-C9-C8 |
| 24 | 2 | 4017 | BCR | C11-C10-C9-C34 |
| 24 | 2 | 4017 | BCR | C17-C18-C19-C20 |
| 24 | 2 | 4017 | BCR | C36-C18-C19-C20 |
| 24 | 2 | 4018 | BCR | C1-C6-C7-C8 |
| 24 | 2 | 4018 | BCR | C11-C10-C9-C8 |
| 24 | 2 | 4018 | BCR | C17-C18-C19-C20 |
| 24 | 2 | 4018 | BCR | C36-C18-C19-C20 |
| 24 | 2 | 4018 | BCR | C23-C24-C25-C26 |
| 24 | 2 | 4018 | BCR | C23-C24-C25-C30 |
| 24 | 2 | 4014 | BCR | C11-C10-C9-C8 |
| 24 | 2 | 4014 | BCR | C11-C10-C9-C34 |
| 24 | 2 | 4014 | BCR | C21-C22-C23-C24 |
| 24 | 2 | 4014 | BCR | C37-C22-C23-C24 |
| 24 | 6 | 4016 | BCR | C10-C11-C12-C13 |
| 24 | 6 | 4016 | BCR | C11-C12-C13-C14 |
| 24 | 6 | 4016 | BCR | C11-C12-C13-C35 |
| 24 | 6 | 4016 | BCR | C36-C18-C19-C20 |
| 24 | 6 | 4016 | BCR | C21-C22-C23-C24 |
| 24 | 6 | 4016 | BCR | C37-C22-C23-C24 |
| 24 | h | 4018 | BCR | C1-C6-C7-C8 |
| 24 | h | 4018 | BCR | C11-C10-C9-C8 |
| 24 | h | 4018 | BCR | C11-C10-C9-C34 |
| 24 | h | 4018 | BCR | C10-C11-C12-C13 |
| 24 | h | 4018 | BCR | C11-C12-C13-C14 |
| 24 | h | 4018 | BCR | C11-C12-C13-C35 |
| 24 | h | 4018 | BCR | C17-C18-C19-C20 |
| 24 | h | 4018 | BCR | C36-C18-C19-C20 |
| 24 | 7 | 4013 | BCR | C11-C10-C9-C8 |
| 24 | 7 | 4013 | BCR | C11-C10-C9-C34 |
| 24 | 7 | 4013 | BCR | C11-C12-C13-C35 |
| 24 | 7 | 4013 | BCR | C23-C24-C25-C26 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 24 | 7 | 4013 | BCR | C23-C24-C25-C30 |
| 24 | 8 | 4001 | BCR | C11-C10-C9-C8 |
| 24 | 8 | 4001 | BCR | C11-C10-C9-C34 |
| 24 | 8 | 4001 | BCR | C11-C12-C13-C14 |
| 24 | 8 | 4001 | BCR | C11-C12-C13-C35 |
| 24 | 8 | 4001 | BCR | C21-C22-C23-C24 |
| 24 | 8 | 4001 | BCR | C37-C22-C23-C24 |
| 24 | 0 | 4019 | BCR | C11-C10-C9-C8 |
| 24 | 0 | 4019 | BCR | C11-C10-C9-C34 |
| 24 | 0 | 4019 | BCR | C23-C24-C25-C26 |
| 24 | 0 | 4022 | BCR | C11-C10-C9-C8 |
| 24 | 0 | 4022 | BCR | C11-C10-C9-C34 |
| 24 | 0 | 4022 | BCR | C10-C11-C12-C13 |
| 24 | 9 | 4021 | BCR | C1-C6-C7-C8 |
| 24 | 9 | 4021 | BCR | C5-C6-C7-C8 |
| 24 | 9 | 4021 | BCR | C11-C10-C9-C8 |
| 24 | 9 | 4021 | BCR | C11-C10-C9-C34 |
| 24 | 9 | 4021 | BCR | C10-C11-C12-C13 |
| 24 | 9 | 4021 | BCR | C11-C12-C13-C14 |
| 24 | 9 | 4021 | BCR | C11-C12-C13-C35 |
| 24 | 9 | 4021 | BCR | C21-C22-C23-C24 |
| 25 | A | 5001 | LHG | O1-C1-C2-C3 |
| 25 | A | 5001 | LHG | C3-O3-P-O5 |
| 25 | A | 5001 | LHG | C4-O6-P-O4 |
| 25 | A | 5003 | LHG | C4-O6-P-O4 |
| 25 | A | 5005 | LHG | C1-C2-C3-O3 |
| 25 | A | 5005 | LHG | C4-O6-P-O3 |
| 25 | A | 5005 | LHG | C4-O6-P-O4 |
| 25 | A | 5005 | LHG | C4-O6-P-O5 |
| 25 | A | 5005 | LHG | O9-C7-O7-C5 |
| 25 | A | 5005 | LHG | C8-C7-O7-C5 |
| 25 | A | 5007 | LHG | O1-C1-C2-C3 |
| 25 | A | 5007 | LHG | O2-C2-C3-O3 |
| 25 | A | 5007 | LHG | C3-O3-P-O5 |
| 25 | A | 5007 | LHG | O9-C7-O7-C5 |
| 25 | A | 5007 | LHG | C8-C7-O7-C5 |
| 25 | A | 5006 | LHG | O1-C1-C2-C3 |
| 25 | A | 5006 | LHG | C3-O3-P-O5 |
| 25 | A | 5006 | LHG | C3-O3-P-O6 |
| 25 | A | 5006 | LHG | O9-C7-O7-C5 |
| 25 | A | 5006 | LHG | C8-C7-O7-C5 |
| 25 | B | 5004 | LHG | C3-O3-P-O6 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-------------|
| 25 | B | 5004 | LHG | C4-O6-P-O3 |
| 25 | B | 5004 | LHG | C4-O6-P-O4 |
| 25 | B | 5004 | LHG | C4-O6-P-O5 |
| 25 | B | 5006 | LHG | O1-C1-C2-C3 |
| 25 | B | 5006 | LHG | C3-O3-P-O4 |
| 25 | B | 5006 | LHG | C3-O3-P-O5 |
| 25 | B | 5006 | LHG | O9-C7-O7-C5 |
| 25 | F | 5002 | LHG | O1-C1-C2-C3 |
| 25 | F | 5002 | LHG | O2-C2-C3-O3 |
| 25 | F | 5002 | LHG | C4-O6-P-O3 |
| 25 | F | 5002 | LHG | C4-O6-P-O4 |
| 25 | F | 5002 | LHG | C4-O6-P-O5 |
| 25 | M | 5001 | LHG | C4-O6-P-O3 |
| 25 | M | 5001 | LHG | C4-O6-P-O4 |
| 25 | M | 5001 | LHG | C4-O6-P-O5 |
| 25 | M | 5001 | LHG | O9-C7-O7-C5 |
| 25 | M | 5001 | LHG | C8-C7-O7-C5 |
| 25 | a | 5001 | LHG | O1-C1-C2-C3 |
| 25 | a | 5001 | LHG | C1-C2-C3-O3 |
| 25 | a | 5001 | LHG | C4-O6-P-O3 |
| 25 | a | 5003 | LHG | O1-C1-C2-C3 |
| 25 | a | 5003 | LHG | C4-O6-P-O3 |
| 25 | a | 5003 | LHG | C4-O6-P-O4 |
| 25 | a | 5003 | LHG | C4-O6-P-O5 |
| 25 | a | 5003 | LHG | O7-C5-C6-O8 |
| 25 | a | 5005 | LHG | C1-C2-C3-O3 |
| 25 | a | 5005 | LHG | C2-C3-O3-P |
| 25 | a | 5005 | LHG | C4-O6-P-O3 |
| 25 | a | 5005 | LHG | C4-O6-P-O5 |
| 25 | a | 5005 | LHG | O9-C7-O7-C5 |
| 25 | a | 5005 | LHG | C8-C7-O7-C5 |
| 25 | a | 5007 | LHG | O1-C1-C2-C3 |
| 25 | a | 5007 | LHG | C4-O6-P-O3 |
| 25 | a | 5007 | LHG | C4-O6-P-O4 |
| 25 | a | 5007 | LHG | C4-O6-P-O5 |
| 25 | l | 5001 | LHG | O1-C1-C2-C3 |
| 25 | l | 5001 | LHG | O2-C2-C3-O3 |
| 25 | l | 5001 | LHG | C4-O6-P-O3 |
| 25 | l | 5001 | LHG | C4-O6-P-O4 |
| 25 | l | 5001 | LHG | C4-O6-P-O5 |
| 25 | l | 5003 | LHG | O1-C1-C2-C3 |
| 25 | l | 5003 | LHG | C3-O3-P-O5 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|---------------|
| 25 | 1 | 5003 | LHG | C4-O6-P-O4 |
| 25 | 1 | 5004 | LHG | C3-O3-P-O6 |
| 25 | 1 | 5002 | LHG | C1-C2-C3-O3 |
| 25 | 1 | 5002 | LHG | C4-O6-P-O4 |
| 25 | 1 | 5002 | LHG | C4-O6-P-O5 |
| 25 | 1 | 5002 | LHG | O6-C4-C5-O7 |
| 25 | 1 | 5005 | LHG | O1-C1-C2-C3 |
| 25 | 1 | 5005 | LHG | C3-O3-P-O6 |
| 25 | 1 | 5005 | LHG | O9-C7-O7-C5 |
| 25 | 1 | 5005 | LHG | C8-C7-O7-C5 |
| 25 | 1 | 5007 | LHG | C3-O3-P-O4 |
| 25 | 1 | 5007 | LHG | C3-O3-P-O5 |
| 25 | 1 | 5007 | LHG | C3-O3-P-O6 |
| 25 | 1 | 5007 | LHG | C4-O6-P-O3 |
| 25 | 1 | 5007 | LHG | C8-C7-O7-C5 |
| 25 | 1 | 5001 | LHG | O1-C1-C2-C3 |
| 25 | 1 | 5001 | LHG | C1-C2-C3-O3 |
| 25 | 1 | 5001 | LHG | O7-C5-C6-O8 |
| 25 | 1 | 5003 | LHG | O1-C1-C2-C3 |
| 25 | 1 | 5003 | LHG | C1-C2-C3-O3 |
| 25 | 1 | 5003 | LHG | C4-O6-P-O4 |
| 25 | 1 | 5003 | LHG | C4-O6-P-O5 |
| 25 | 2 | 5004 | LHG | C4-O6-P-O3 |
| 25 | 0 | 5002 | LHG | O1-C1-C2-C3 |
| 26 | A | 5002 | LMG | O6-C1-O1-C7 |
| 26 | A | 5002 | LMG | O1-C7-C8-O7 |
| 26 | A | 5002 | LMG | O9-C10-O7-C8 |
| 26 | A | 5002 | LMG | C11-C10-O7-C8 |
| 26 | A | 5008 | LMG | C2-C1-O1-C7 |
| 26 | A | 5008 | LMG | O6-C1-O1-C7 |
| 26 | A | 5008 | LMG | O9-C10-O7-C8 |
| 26 | A | 5008 | LMG | C11-C10-O7-C8 |
| 26 | K | 5009 | LMG | O6-C1-O1-C7 |
| 26 | K | 5009 | LMG | O9-C10-O7-C8 |
| 26 | K | 5009 | LMG | C11-C10-O7-C8 |
| 26 | a | 5002 | LMG | C2-C1-O1-C7 |
| 26 | a | 5002 | LMG | O6-C1-O1-C7 |
| 26 | a | 5002 | LMG | O9-C10-O7-C8 |
| 26 | a | 5002 | LMG | C11-C10-O7-C8 |
| 26 | a | 5004 | LMG | C2-C1-O1-C7 |
| 26 | a | 5004 | LMG | O6-C1-O1-C7 |
| 26 | a | 5004 | LMG | C11-C10-O7-C8 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 26 | b | 5005 | LMG | O6-C1-O1-C7 |
| 26 | b | 5005 | LMG | C11-C10-O7-C8 |
| 26 | b | 5007 | LMG | O6-C1-O1-C7 |
| 26 | b | 5007 | LMG | C11-C10-O7-C8 |
| 26 | 1 | 5002 | LMG | C2-C1-O1-C7 |
| 26 | 1 | 5002 | LMG | O6-C1-O1-C7 |
| 26 | 1 | 5002 | LMG | C11-C10-O7-C8 |
| 26 | 2 | 5005 | LMG | C2-C1-O1-C7 |
| 26 | 2 | 5005 | LMG | O6-C1-O1-C7 |
| 26 | 0 | 5001 | LMG | C2-C1-O1-C7 |
| 26 | 0 | 5001 | LMG | O6-C1-O1-C7 |
| 28 | B | 4011 | 45D | C19-C23-C25-C27 |
| 28 | B | 4011 | 45D | C19-C23-C25-C29 |
| 28 | B | 4011 | 45D | C31-C33-C35-C37 |
| 28 | B | 4011 | 45D | C31-C33-C35-C39 |
| 28 | h | 4020 | 45D | C19-C23-C25-C27 |
| 28 | h | 4020 | 45D | C19-C23-C25-C29 |
| 28 | h | 4020 | 45D | C31-C33-C35-C37 |
| 28 | h | 4020 | 45D | C31-C33-C35-C39 |
| 28 | h | 4020 | 45D | C35-C37-C41-C42 |
| 30 | M | 4021 | ECH | C21-C22-C23-C24 |
| 30 | M | 4021 | ECH | C37-C22-C23-C24 |
| 30 | M | 4021 | ECH | C23-C24-C25-C26 |
| 30 | b | 4011 | ECH | C21-C22-C23-C24 |
| 30 | b | 4011 | ECH | C23-C24-C25-C30 |
| 30 | i | 4020 | ECH | C1-C6-C7-C8 |
| 30 | i | 4020 | ECH | C5-C6-C7-C8 |
| 30 | i | 4020 | ECH | C7-C8-C9-C10 |
| 30 | i | 4020 | ECH | C37-C22-C23-C24 |
| 30 | m | 4021 | ECH | C21-C22-C23-C24 |
| 30 | m | 4021 | ECH | C37-C22-C23-C24 |
| 30 | m | 4021 | ECH | C23-C24-C25-C26 |
| 30 | 2 | 4006 | ECH | C23-C24-C25-C26 |
| 31 | B | 5008 | SQD | C2-C1-O6-C44 |
| 31 | B | 5008 | SQD | O5-C1-O6-C44 |
| 31 | F | 5001 | SQD | O5-C5-C6-S |
| 31 | L | 5001 | SQD | C2-C1-O6-C44 |
| 31 | L | 5001 | SQD | O5-C1-O6-C44 |
| 31 | L | 5001 | SQD | O5-C5-C6-S |
| 31 | L | 5001 | SQD | C5-C6-S-O7 |
| 31 | L | 5001 | SQD | C5-C6-S-O8 |
| 31 | L | 5001 | SQD | C5-C6-S-O9 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 31 | L | 5002 | SQD | O5-C5-C6-S |
| 31 | b | 5006 | SQD | C8-C7-O47-C45 |
| 31 | b | 5006 | SQD | O5-C5-C6-S |
| 31 | 0 | 5005 | SQD | O5-C5-C6-S |
| 34 | F | 4016 | ZEX | C1-C6-C7-C8 |
| 34 | F | 4016 | ZEX | C5-C6-C7-C8 |
| 34 | F | 4016 | ZEX | C25-C26-C27-C28 |
| 34 | F | 4016 | ZEX | C7-C8-C9-C19 |
| 34 | F | 4016 | ZEX | C7-C8-C9-C10 |
| 34 | J | 4015 | ZEX | C21-C26-C27-C28 |
| 34 | j | 4015 | ZEX | C25-C26-C27-C28 |
| 34 | j | 4015 | ZEX | C31-C32-C33-C34 |
| 34 | j | 4015 | ZEX | C31-C32-C33-C40 |
| 34 | 7 | 4015 | ZEX | C21-C26-C27-C28 |
| 34 | 7 | 4015 | ZEX | C7-C8-C9-C19 |
| 34 | 7 | 4015 | ZEX | C7-C8-C9-C10 |
| 35 | F | 6001 | LMT | C2-C1-O1'-C1' |
| 35 | L | 6001 | LMT | C2'-C1'-O1'-C1 |
| 35 | L | 6001 | LMT | O5'-C1'-O1'-C1 |
| 35 | 0 | 6001 | LMT | C2-C1-O1'-C1' |
| 36 | I | 4020 | EQ3 | C21-C22-C23-C24 |
| 36 | I | 4020 | EQ3 | C37-C22-C23-C24 |
| 37 | L | 5004 | DGD | C2B-C1B-O2G-C2G |
| 37 | L | 5004 | DGD | C2D-C1D-O3G-C3G |
| 37 | L | 5004 | DGD | O6D-C1D-O3G-C3G |
| 37 | L | 5004 | DGD | C4D-C5D-C6D-O5D |
| 37 | L | 5004 | DGD | O6E-C1E-O5D-C6D |
| 21 | B | 1227 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1138 | CLA | O1D-CGD-O2D-CED |
| 21 | K | 1402 | CLA | C15-C16-C17-C18 |
| 21 | A | 1104 | CLA | O1D-CGD-O2D-CED |
| 21 | B | 1220 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1104 | CLA | O1D-CGD-O2D-CED |
| 21 | b | 1218 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1138 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1021 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1220 | CLA | O1D-CGD-O2D-CED |
| 21 | 8 | 1402 | CLA | O1D-CGD-O2D-CED |
| 21 | A | 1104 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1105 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1109 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1115 | CLA | CBD-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | A | 1116 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1119 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1120 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1121 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1138 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1140 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1022 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1204 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1206 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1214 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1217 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1218 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1219 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1220 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1227 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1229 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1231 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1232 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1235 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1238 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1240 | CLA | CBD-CGD-O2D-CED |
| 21 | F | 1301 | CLA | CBD-CGD-O2D-CED |
| 21 | F | 1302 | CLA | CBD-CGD-O2D-CED |
| 21 | J | 1302 | CLA | CBD-CGD-O2D-CED |
| 21 | L | 1503 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1103 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1104 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1106 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1113 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1114 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1117 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1120 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1121 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1122 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1133 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1136 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1137 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1139 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1138 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1132 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1022 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1203 | CLA | CBD-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|------------|--------------|------------|-------------|-----------------|
| 21 | b | 1206 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1215 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1217 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1218 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1219 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1223 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1227 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1232 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1235 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1239 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1230 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1201 | CLA | CBD-CGD-O2D-CED |
| 21 | f | 1302 | CLA | CBD-CGD-O2D-CED |
| 21 | j | 1302 | CLA | CBD-CGD-O2D-CED |
| 21 | j | 1303 | CLA | CBD-CGD-O2D-CED |
| 21 | l | 1501 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1011 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1103 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1106 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1107 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1110 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1113 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1114 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1118 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1125 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1131 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1137 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1130 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1021 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1201 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1203 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1210 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1211 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1213 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1214 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1215 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1219 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1220 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1224 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1228 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1239 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1240 | CLA | CBD-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | 6 | 1301 | CLA | CBD-CGD-O2D-CED |
| 21 | 8 | 1401 | CLA | CBD-CGD-O2D-CED |
| 21 | 8 | 1402 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1114 | CLA | O1A-CGA-O2A-C1 |
| 21 | A | 1801 | CLA | O1A-CGA-O2A-C1 |
| 21 | a | 1110 | CLA | O1A-CGA-O2A-C1 |
| 21 | b | 1219 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1109 | CLA | O1A-CGA-O2A-C1 |
| 21 | 2 | 1204 | CLA | O1A-CGA-O2A-C1 |
| 21 | 2 | 1219 | CLA | O1A-CGA-O2A-C1 |
| 25 | 1 | 5005 | LHG | O10-C23-O8-C6 |
| 26 | A | 5002 | LMG | O10-C28-O8-C9 |
| 26 | B | 5005 | LMG | O10-C28-O8-C9 |
| 26 | a | 5002 | LMG | O10-C28-O8-C9 |
| 26 | 2 | 5005 | LMG | O10-C28-O8-C9 |
| 31 | f | 5001 | SQD | O10-C23-O48-C46 |
| 21 | 8 | 1402 | CLA | O1A-CGA-O2A-C1 |
| 21 | B | 1207 | CLA | C4C-C3C-CAC-CBC |
| 21 | B | 1203 | CLA | O1D-CGD-O2D-CED |
| 21 | B | 1218 | CLA | O1D-CGD-O2D-CED |
| 21 | B | 1219 | CLA | O1D-CGD-O2D-CED |
| 21 | F | 1301 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1139 | CLA | O1D-CGD-O2D-CED |
| 21 | b | 1219 | CLA | O1D-CGD-O2D-CED |
| 21 | f | 1302 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1114 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1214 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1219 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1231 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1231 | CLA | CBA-CGA-O2A-C1 |
| 21 | A | 1107 | CLA | O1D-CGD-O2D-CED |
| 21 | A | 1114 | CLA | O1D-CGD-O2D-CED |
| 21 | A | 1118 | CLA | O1D-CGD-O2D-CED |
| 21 | A | 1139 | CLA | O1D-CGD-O2D-CED |
| 21 | B | 1021 | CLA | O1D-CGD-O2D-CED |
| 21 | B | 1201 | CLA | O1D-CGD-O2D-CED |
| 21 | B | 1212 | CLA | O1D-CGD-O2D-CED |
| 21 | B | 1232 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1107 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1118 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1801 | CLA | O1D-CGD-O2D-CED |
| 21 | b | 1220 | CLA | O1D-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | b | 1229 | CLA | O1D-CGD-O2D-CED |
| 21 | b | 1231 | CLA | O1D-CGD-O2D-CED |
| 21 | f | 1301 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1108 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1109 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1126 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1139 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1207 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1208 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1212 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1217 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1218 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1224 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1240 | CLA | O1D-CGD-O2D-CED |
| 21 | 7 | 1302 | CLA | O1D-CGD-O2D-CED |
| 21 | 7 | 1303 | CLA | O1D-CGD-O2D-CED |
| 21 | A | 1801 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1110 | CLA | CBA-CGA-O2A-C1 |
| 21 | b | 1219 | CLA | CBA-CGA-O2A-C1 |
| 21 | 1 | 1109 | CLA | CBA-CGA-O2A-C1 |
| 21 | 2 | 1219 | CLA | CBA-CGA-O2A-C1 |
| 25 | 1 | 5005 | LHG | C24-C23-O8-C6 |
| 26 | A | 5002 | LMG | C29-C28-O8-C9 |
| 26 | B | 5005 | LMG | C29-C28-O8-C9 |
| 26 | a | 5002 | LMG | C29-C28-O8-C9 |
| 26 | 2 | 5005 | LMG | C29-C28-O8-C9 |
| 31 | f | 5001 | SQD | C24-C23-O48-C46 |
| 21 | A | 1102 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1103 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1112 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1113 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1132 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1012 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1210 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1213 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1234 | CLA | CBD-CGD-O2D-CED |
| 21 | J | 1303 | CLA | CBD-CGD-O2D-CED |
| 21 | K | 1402 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1013 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1105 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1110 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1115 | CLA | CBD-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | a | 1124 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1127 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1128 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1135 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1204 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1208 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1214 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1226 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1228 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1240 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1102 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1119 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1120 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1123 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1128 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1132 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1135 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1801 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1012 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1022 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1204 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1205 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1222 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1235 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1230 | CLA | CBD-CGD-O2D-CED |
| 21 | 0 | 1503 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1207 | CLA | C2C-C3C-CAC-CBC |
| 35 | 0 | 6001 | LMT | C3'-C4'-O1B-C1B |
| 21 | A | 1109 | CLA | O1A-CGA-O2A-C1 |
| 21 | A | 1110 | CLA | O1A-CGA-O2A-C1 |
| 21 | A | 1129 | CLA | O1A-CGA-O2A-C1 |
| 21 | A | 1130 | CLA | O1A-CGA-O2A-C1 |
| 21 | B | 1204 | CLA | O1A-CGA-O2A-C1 |
| 21 | B | 1206 | CLA | O1A-CGA-O2A-C1 |
| 21 | B | 1227 | CLA | O1A-CGA-O2A-C1 |
| 21 | B | 1235 | CLA | O1A-CGA-O2A-C1 |
| 21 | a | 1104 | CLA | O1A-CGA-O2A-C1 |
| 21 | a | 1136 | CLA | O1A-CGA-O2A-C1 |
| 21 | b | 1214 | CLA | O1A-CGA-O2A-C1 |
| 21 | b | 1218 | CLA | O1A-CGA-O2A-C1 |
| 21 | b | 1227 | CLA | O1A-CGA-O2A-C1 |
| 21 | b | 1235 | CLA | O1A-CGA-O2A-C1 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | f | 1302 | CLA | O1A-CGA-O2A-C1 |
| 21 | k | 1402 | CLA | O1A-CGA-O2A-C1 |
| 21 | l | 1501 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1013 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1104 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1110 | CLA | O1A-CGA-O2A-C1 |
| 21 | 2 | 1237 | CLA | O1A-CGA-O2A-C1 |
| 21 | 2 | 1221 | CLA | O1A-CGA-O2A-C1 |
| 21 | 2 | 1235 | CLA | O1A-CGA-O2A-C1 |
| 26 | A | 5004 | LMG | O10-C28-O8-C9 |
| 26 | 1 | 5002 | LMG | O10-C28-O8-C9 |
| 26 | 1 | 5004 | LMG | O10-C28-O8-C9 |
| 31 | 0 | 5005 | SQD | O10-C23-O48-C46 |
| 21 | A | 1135 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1112 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1126 | CLA | O1D-CGD-O2D-CED |
| 21 | b | 1237 | CLA | O1D-CGD-O2D-CED |
| 21 | b | 1224 | CLA | O1D-CGD-O2D-CED |
| 21 | l | 1503 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1104 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1116 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1121 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1140 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1229 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1236 | CLA | O1D-CGD-O2D-CED |
| 26 | 0 | 5001 | LMG | O6-C5-C6-O5 |
| 21 | B | 1206 | CLA | O1D-CGD-O2D-CED |
| 21 | B | 1208 | CLA | O1D-CGD-O2D-CED |
| 21 | B | 1215 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1109 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1116 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1119 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1140 | CLA | O1D-CGD-O2D-CED |
| 21 | b | 1213 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1112 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1134 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1023 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1232 | CLA | O1D-CGD-O2D-CED |
| 21 | A | 1131 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1226 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1239 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1101 | CLA | CBD-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | 1 | 1105 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1101 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1216 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1120 | CLA | O1D-CGD-O2D-CED |
| 21 | A | 1126 | CLA | O1D-CGD-O2D-CED |
| 21 | A | 1138 | CLA | O1D-CGD-O2D-CED |
| 21 | B | 1224 | CLA | O1D-CGD-O2D-CED |
| 21 | J | 1302 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1103 | CLA | O1D-CGD-O2D-CED |
| 21 | b | 1215 | CLA | O1D-CGD-O2D-CED |
| 21 | b | 1223 | CLA | O1D-CGD-O2D-CED |
| 21 | b | 1201 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1107 | CLA | O1D-CGD-O2D-CED |
| 21 | 8 | 1401 | CLA | O1D-CGD-O2D-CED |
| 25 | 1 | 5007 | LHG | O9-C7-O7-C5 |
| 26 | a | 5004 | LMG | O9-C10-O7-C8 |
| 26 | 1 | 5002 | LMG | O9-C10-O7-C8 |
| 31 | b | 5006 | SQD | O49-C7-O47-C45 |
| 21 | B | 1212 | CLA | O1A-CGA-O2A-C1 |
| 21 | L | 1501 | CLA | O1A-CGA-O2A-C1 |
| 21 | b | 1203 | CLA | O1D-CGD-O2D-CED |
| 21 | A | 1108 | CLA | C3-C5-C6-C7 |
| 21 | A | 1109 | CLA | C3-C5-C6-C7 |
| 21 | A | 1114 | CLA | C3-C5-C6-C7 |
| 21 | A | 1115 | CLA | C3-C5-C6-C7 |
| 21 | A | 1116 | CLA | C3-C5-C6-C7 |
| 21 | A | 1120 | CLA | C3-C5-C6-C7 |
| 21 | A | 1137 | CLA | C3-C5-C6-C7 |
| 21 | B | 1209 | CLA | C3-C5-C6-C7 |
| 21 | B | 1218 | CLA | C3-C5-C6-C7 |
| 21 | B | 1228 | CLA | C3-C5-C6-C7 |
| 21 | a | 1011 | CLA | C3-C5-C6-C7 |
| 21 | a | 1108 | CLA | C3-C5-C6-C7 |
| 21 | a | 1115 | CLA | C3-C5-C6-C7 |
| 21 | a | 1120 | CLA | C3-C5-C6-C7 |
| 21 | a | 1124 | CLA | C3-C5-C6-C7 |
| 21 | a | 1127 | CLA | C3-C5-C6-C7 |
| 21 | a | 1801 | CLA | C3-C5-C6-C7 |
| 21 | b | 1206 | CLA | C3-C5-C6-C7 |
| 21 | b | 1207 | CLA | C3-C5-C6-C7 |
| 21 | b | 1221 | CLA | C3-C5-C6-C7 |
| 21 | b | 1224 | CLA | C3-C5-C6-C7 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|----------------|
| 21 | b | 1231 | CLA | C3-C5-C6-C7 |
| 21 | b | 1240 | CLA | C3-C5-C6-C7 |
| 21 | l | 1503 | CLA | C3-C5-C6-C7 |
| 21 | 1 | 1103 | CLA | C3-C5-C6-C7 |
| 21 | 1 | 1104 | CLA | C3-C5-C6-C7 |
| 21 | 1 | 1111 | CLA | C3-C5-C6-C7 |
| 21 | 1 | 1116 | CLA | C3-C5-C6-C7 |
| 21 | 1 | 1120 | CLA | C3-C5-C6-C7 |
| 21 | 1 | 1122 | CLA | C3-C5-C6-C7 |
| 21 | 1 | 1124 | CLA | C3-C5-C6-C7 |
| 21 | 1 | 1133 | CLA | C3-C5-C6-C7 |
| 21 | 2 | 1237 | CLA | C3-C5-C6-C7 |
| 21 | 2 | 1021 | CLA | C3-C5-C6-C7 |
| 21 | 2 | 1203 | CLA | C3-C5-C6-C7 |
| 21 | 2 | 1205 | CLA | C3-C5-C6-C7 |
| 21 | 2 | 1206 | CLA | C3-C5-C6-C7 |
| 21 | 2 | 1218 | CLA | C3-C5-C6-C7 |
| 21 | 2 | 1238 | CLA | C3-C5-C6-C7 |
| 21 | A | 1109 | CLA | CBA-CGA-O2A-C1 |
| 21 | A | 1110 | CLA | CBA-CGA-O2A-C1 |
| 21 | A | 1114 | CLA | CBA-CGA-O2A-C1 |
| 21 | A | 1129 | CLA | CBA-CGA-O2A-C1 |
| 21 | A | 1130 | CLA | CBA-CGA-O2A-C1 |
| 21 | B | 1227 | CLA | CBA-CGA-O2A-C1 |
| 21 | B | 1228 | CLA | CBA-CGA-O2A-C1 |
| 21 | B | 1230 | CLA | CBA-CGA-O2A-C1 |
| 21 | J | 1303 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1124 | CLA | CBA-CGA-O2A-C1 |
| 21 | b | 1214 | CLA | CBA-CGA-O2A-C1 |
| 21 | b | 1235 | CLA | CBA-CGA-O2A-C1 |
| 21 | f | 1302 | CLA | CBA-CGA-O2A-C1 |
| 21 | l | 1501 | CLA | CBA-CGA-O2A-C1 |
| 21 | 1 | 1110 | CLA | CBA-CGA-O2A-C1 |
| 21 | 1 | 1126 | CLA | CBA-CGA-O2A-C1 |
| 21 | 1 | 1134 | CLA | CBA-CGA-O2A-C1 |
| 21 | 1 | 1130 | CLA | CBA-CGA-O2A-C1 |
| 21 | 2 | 1237 | CLA | CBA-CGA-O2A-C1 |
| 21 | 2 | 1204 | CLA | CBA-CGA-O2A-C1 |
| 21 | 2 | 1207 | CLA | CBA-CGA-O2A-C1 |
| 21 | 2 | 1221 | CLA | CBA-CGA-O2A-C1 |
| 21 | 2 | 1235 | CLA | CBA-CGA-O2A-C1 |
| 21 | 0 | 1501 | CLA | CBA-CGA-O2A-C1 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 26 | A | 5004 | LMG | C29-C28-O8-C9 |
| 26 | 1 | 5002 | LMG | C29-C28-O8-C9 |
| 26 | 1 | 5004 | LMG | C29-C28-O8-C9 |
| 21 | 6 | 1301 | CLA | C2-C1-O2A-CGA |
| 35 | l | 6001 | LMT | O5B-C5B-C6B-O6B |
| 25 | B | 5006 | LHG | C8-C7-O7-C5 |
| 21 | A | 1140 | CLA | O1D-CGD-O2D-CED |
| 21 | b | 1239 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1011 | CLA | O1D-CGD-O2D-CED |
| 21 | A | 1124 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1127 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1128 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1209 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1211 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1207 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1230 | CLA | C2-C1-O2A-CGA |
| 21 | b | 1202 | CLA | O1A-CGA-O2A-C1 |
| 21 | j | 1303 | CLA | O1A-CGA-O2A-C1 |
| 21 | 2 | 1231 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1108 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1129 | CLA | C3-C5-C6-C7 |
| 21 | 2 | 1217 | CLA | C3-C5-C6-C7 |
| 21 | B | 1225 | CLA | C4-C3-C5-C6 |
| 21 | B | 1235 | CLA | C4-C3-C5-C6 |
| 21 | a | 1104 | CLA | C4-C3-C5-C6 |
| 21 | a | 1127 | CLA | C4-C3-C5-C6 |
| 21 | a | 1128 | CLA | C4-C3-C5-C6 |
| 21 | b | 1235 | CLA | C4-C3-C5-C6 |
| 21 | 2 | 1226 | CLA | C4-C3-C5-C6 |
| 21 | B | 1226 | CLA | C2-C3-C5-C6 |
| 21 | a | 1104 | CLA | C2-C3-C5-C6 |
| 21 | a | 1128 | CLA | C2-C3-C5-C6 |
| 21 | a | 1133 | CLA | C2-C3-C5-C6 |
| 21 | a | 1130 | CLA | C2-C3-C5-C6 |
| 21 | b | 1021 | CLA | C2-C3-C5-C6 |
| 21 | b | 1216 | CLA | C2-C3-C5-C6 |
| 21 | 1 | 1134 | CLA | C2-C3-C5-C6 |
| 21 | 1 | 1135 | CLA | C2-C3-C5-C6 |
| 21 | 1 | 1012 | CLA | C2-C3-C5-C6 |
| 21 | a | 1011 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1129 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1012 | CLA | CBD-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | k | 1402 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1115 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1122 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1136 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1206 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1113 | CLA | C2A-CAA-CBA-CGA |
| 21 | A | 1135 | CLA | C2A-CAA-CBA-CGA |
| 21 | A | 1801 | CLA | C2A-CAA-CBA-CGA |
| 21 | B | 1225 | CLA | C2A-CAA-CBA-CGA |
| 21 | B | 1238 | CLA | C2A-CAA-CBA-CGA |
| 21 | B | 1240 | CLA | C2A-CAA-CBA-CGA |
| 21 | F | 1302 | CLA | C2A-CAA-CBA-CGA |
| 21 | a | 1109 | CLA | C2A-CAA-CBA-CGA |
| 21 | a | 1114 | CLA | C2A-CAA-CBA-CGA |
| 21 | b | 1214 | CLA | C2A-CAA-CBA-CGA |
| 21 | b | 1216 | CLA | C2A-CAA-CBA-CGA |
| 21 | b | 1238 | CLA | C2A-CAA-CBA-CGA |
| 21 | k | 1402 | CLA | C2A-CAA-CBA-CGA |
| 21 | 1 | 1135 | CLA | C2A-CAA-CBA-CGA |
| 21 | 2 | 1237 | CLA | C2A-CAA-CBA-CGA |
| 21 | 2 | 1214 | CLA | C2A-CAA-CBA-CGA |
| 21 | 2 | 1238 | CLA | C2A-CAA-CBA-CGA |
| 21 | 8 | 1402 | CLA | C2A-CAA-CBA-CGA |
| 21 | 0 | 1503 | CLA | C2A-CAA-CBA-CGA |
| 21 | j | 1303 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1215 | CLA | O1D-CGD-O2D-CED |
| 26 | A | 5002 | LMG | C17-C18-C19-C20 |
| 26 | A | 5002 | LMG | C38-C39-C40-C41 |
| 26 | A | 5002 | LMG | C41-C42-C43-C44 |
| 26 | A | 5004 | LMG | C17-C18-C19-C20 |
| 26 | A | 5004 | LMG | C23-C24-C25-C26 |
| 26 | A | 5008 | LMG | C20-C21-C22-C23 |
| 26 | A | 5008 | LMG | C35-C36-C37-C38 |
| 26 | B | 5002 | LMG | C20-C21-C22-C23 |
| 26 | B | 5002 | LMG | C23-C24-C25-C26 |
| 26 | B | 5002 | LMG | C35-C36-C37-C38 |
| 26 | B | 5005 | LMG | C38-C39-C40-C41 |
| 26 | B | 5005 | LMG | C41-C42-C43-C44 |
| 26 | a | 5002 | LMG | C17-C18-C19-C20 |
| 26 | a | 5002 | LMG | C38-C39-C40-C41 |
| 26 | a | 5002 | LMG | C41-C42-C43-C44 |
| 26 | a | 5004 | LMG | C17-C18-C19-C20 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 26 | a | 5004 | LMG | C20-C21-C22-C23 |
| 26 | b | 5002 | LMG | C20-C21-C22-C23 |
| 26 | b | 5002 | LMG | C23-C24-C25-C26 |
| 26 | b | 5002 | LMG | C35-C36-C37-C38 |
| 26 | b | 5005 | LMG | C38-C39-C40-C41 |
| 26 | b | 5005 | LMG | C41-C42-C43-C44 |
| 26 | b | 5007 | LMG | C20-C21-C22-C23 |
| 26 | b | 5007 | LMG | C23-C24-C25-C26 |
| 26 | b | 5007 | LMG | C35-C36-C37-C38 |
| 26 | b | 5007 | LMG | C41-C42-C43-C44 |
| 26 | 1 | 5002 | LMG | C17-C18-C19-C20 |
| 26 | 1 | 5002 | LMG | C38-C39-C40-C41 |
| 26 | 1 | 5002 | LMG | C41-C42-C43-C44 |
| 26 | 1 | 5004 | LMG | C23-C24-C25-C26 |
| 26 | 1 | 5004 | LMG | C35-C36-C37-C38 |
| 26 | 2 | 5002 | LMG | C20-C21-C22-C23 |
| 26 | 2 | 5002 | LMG | C23-C24-C25-C26 |
| 26 | 2 | 5002 | LMG | C35-C36-C37-C38 |
| 26 | 2 | 5005 | LMG | C38-C39-C40-C41 |
| 26 | 2 | 5005 | LMG | C41-C42-C43-C44 |
| 26 | 0 | 5001 | LMG | C20-C21-C22-C23 |
| 26 | 0 | 5001 | LMG | C23-C24-C25-C26 |
| 26 | 0 | 5001 | LMG | C38-C39-C40-C41 |
| 37 | L | 5004 | DGD | C8A-C9A-CAA-CBA |
| 37 | L | 5004 | DGD | CEA-CFA-CGA-CHA |
| 37 | L | 5004 | DGD | CEB-CFB-CGB-CHB |
| 21 | A | 1113 | CLA | C3-C5-C6-C7 |
| 21 | A | 1128 | CLA | C3-C5-C6-C7 |
| 21 | L | 1503 | CLA | C3-C5-C6-C7 |
| 21 | a | 1126 | CLA | C3-C5-C6-C7 |
| 21 | a | 1128 | CLA | C3-C5-C6-C7 |
| 21 | b | 1237 | CLA | C3-C5-C6-C7 |
| 21 | b | 1232 | CLA | C3-C5-C6-C7 |
| 21 | f | 1302 | CLA | C3-C5-C6-C7 |
| 21 | j | 1303 | CLA | C3-C5-C6-C7 |
| 21 | 1 | 1125 | CLA | C3-C5-C6-C7 |
| 21 | 1 | 1139 | CLA | C3-C5-C6-C7 |
| 21 | 2 | 1207 | CLA | C3-C5-C6-C7 |
| 21 | 2 | 1215 | CLA | C3-C5-C6-C7 |
| 21 | A | 1104 | CLA | CBA-CGA-O2A-C1 |
| 21 | B | 1202 | CLA | CBA-CGA-O2A-C1 |
| 21 | B | 1204 | CLA | CBA-CGA-O2A-C1 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | B | 1206 | CLA | CBA-CGA-O2A-C1 |
| 21 | B | 1212 | CLA | CBA-CGA-O2A-C1 |
| 21 | B | 1218 | CLA | CBA-CGA-O2A-C1 |
| 21 | B | 1235 | CLA | CBA-CGA-O2A-C1 |
| 21 | L | 1501 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1013 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1104 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1136 | CLA | CBA-CGA-O2A-C1 |
| 21 | b | 1218 | CLA | CBA-CGA-O2A-C1 |
| 21 | b | 1227 | CLA | CBA-CGA-O2A-C1 |
| 21 | k | 1402 | CLA | CBA-CGA-O2A-C1 |
| 21 | 1 | 1013 | CLA | CBA-CGA-O2A-C1 |
| 21 | 1 | 1104 | CLA | CBA-CGA-O2A-C1 |
| 21 | 1 | 1121 | CLA | CBA-CGA-O2A-C1 |
| 21 | 1 | 1124 | CLA | CBA-CGA-O2A-C1 |
| 25 | a | 5007 | LHG | C24-C23-O8-C6 |
| 31 | b | 5006 | SQD | C24-C23-O48-C46 |
| 31 | 0 | 5005 | SQD | C24-C23-O48-C46 |
| 25 | l | 5001 | LHG | C31-C32-C33-C34 |
| 21 | A | 1116 | CLA | O1D-CGD-O2D-CED |
| 21 | B | 1022 | CLA | O1D-CGD-O2D-CED |
| 21 | B | 1204 | CLA | O1D-CGD-O2D-CED |
| 21 | B | 1240 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1114 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1136 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1137 | CLA | O1D-CGD-O2D-CED |
| 21 | b | 1217 | CLA | O1D-CGD-O2D-CED |
| 21 | b | 1232 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1113 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1137 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1210 | CLA | O1D-CGD-O2D-CED |
| 21 | B | 1202 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1125 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1237 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1202 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1119 | CLA | O1D-CGD-O2D-CED |
| 21 | A | 1121 | CLA | O1D-CGD-O2D-CED |
| 21 | B | 1217 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1113 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1117 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1122 | CLA | O1D-CGD-O2D-CED |
| 21 | l | 1501 | CLA | O1D-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | 2 | 1201 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1203 | CLA | O1D-CGD-O2D-CED |
| 26 | b | 5005 | LMG | O9-C10-O7-C8 |
| 26 | b | 5007 | LMG | O9-C10-O7-C8 |
| 37 | L | 5004 | DGD | O1B-C1B-O2G-C2G |
| 21 | A | 1102 | CLA | O1A-CGA-O2A-C1 |
| 21 | B | 1202 | CLA | O1A-CGA-O2A-C1 |
| 21 | B | 1209 | CLA | O1A-CGA-O2A-C1 |
| 21 | B | 1214 | CLA | O1A-CGA-O2A-C1 |
| 21 | B | 1218 | CLA | O1A-CGA-O2A-C1 |
| 21 | B | 1228 | CLA | O1A-CGA-O2A-C1 |
| 21 | J | 1303 | CLA | O1A-CGA-O2A-C1 |
| 21 | a | 1013 | CLA | O1A-CGA-O2A-C1 |
| 21 | a | 1121 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1121 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1126 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1138 | CLA | O1A-CGA-O2A-C1 |
| 21 | 2 | 1207 | CLA | O1A-CGA-O2A-C1 |
| 25 | 0 | 5002 | LHG | O10-C23-O8-C6 |
| 21 | 1 | 1108 | CLA | O1A-CGA-O2A-C1 |
| 21 | A | 1105 | CLA | O1D-CGD-O2D-CED |
| 21 | j | 1302 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1118 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1125 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1130 | CLA | O1D-CGD-O2D-CED |
| 24 | A | 4002 | BCR | C13-C14-C15-C16 |
| 24 | B | 4017 | BCR | C13-C14-C15-C16 |
| 24 | B | 4018 | BCR | C19-C20-C21-C22 |
| 24 | I | 4018 | BCR | C13-C14-C15-C16 |
| 24 | b | 4017 | BCR | C13-C14-C15-C16 |
| 24 | b | 4018 | BCR | C13-C14-C15-C16 |
| 24 | i | 4018 | BCR | C13-C14-C15-C16 |
| 24 | i | 4018 | BCR | C15-C16-C17-C18 |
| 24 | 2 | 4017 | BCR | C13-C14-C15-C16 |
| 24 | h | 4018 | BCR | C13-C14-C15-C16 |
| 24 | 0 | 4019 | BCR | C13-C14-C15-C16 |
| 28 | h | 4020 | 45D | C26-C30-C32-C34 |
| 21 | A | 1110 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1111 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1117 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1133 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1136 | CLA | CBD-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | B | 1237 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1207 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1230 | CLA | CBD-CGD-O2D-CED |
| 21 | L | 1501 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1130 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1209 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1212 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1234 | CLA | CBD-CGD-O2D-CED |
| 21 | l | 1502 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1129 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1209 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1238 | CLA | CBD-CGD-O2D-CED |
| 21 | 6 | 1302 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1229 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1131 | CLA | O1D-CGD-O2D-CED |
| 25 | A | 5005 | LHG | O2-C2-C3-O3 |
| 25 | A | 5006 | LHG | O2-C2-C3-O3 |
| 25 | L | 5005 | LHG | O2-C2-C3-O3 |
| 25 | l | 5004 | LHG | O2-C2-C3-O3 |
| 25 | 1 | 5005 | LHG | O2-C2-C3-O3 |
| 25 | 1 | 5001 | LHG | O2-C2-C3-O3 |
| 25 | 6 | 5001 | LHG | O2-C2-C3-O3 |
| 25 | 0 | 5004 | LHG | O2-C2-C3-O3 |
| 21 | A | 1111 | CLA | C3-C5-C6-C7 |
| 21 | B | 1205 | CLA | C3-C5-C6-C7 |
| 21 | F | 1301 | CLA | C3-C5-C6-C7 |
| 21 | K | 1401 | CLA | C3-C5-C6-C7 |
| 21 | a | 1105 | CLA | C3-C5-C6-C7 |
| 21 | b | 1205 | CLA | C3-C5-C6-C7 |
| 21 | b | 1218 | CLA | C3-C5-C6-C7 |
| 21 | b | 1227 | CLA | C3-C5-C6-C7 |
| 21 | b | 1236 | CLA | C3-C5-C6-C7 |
| 21 | 2 | 1221 | CLA | C3-C5-C6-C7 |
| 21 | 2 | 1226 | CLA | C3-C5-C6-C7 |
| 21 | 0 | 1503 | CLA | C3-C5-C6-C7 |
| 21 | A | 1102 | CLA | CBA-CGA-O2A-C1 |
| 21 | B | 1207 | CLA | CBA-CGA-O2A-C1 |
| 21 | L | 1503 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1117 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1121 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1134 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1138 | CLA | CBA-CGA-O2A-C1 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | j | 1303 | CLA | CBA-CGA-O2A-C1 |
| 21 | 1 | 1117 | CLA | CBA-CGA-O2A-C1 |
| 21 | 1 | 1135 | CLA | CBA-CGA-O2A-C1 |
| 21 | A | 1104 | CLA | O1A-CGA-O2A-C1 |
| 21 | B | 1207 | CLA | O1A-CGA-O2A-C1 |
| 21 | B | 1230 | CLA | O1A-CGA-O2A-C1 |
| 21 | a | 1124 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1124 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1134 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1130 | CLA | O1A-CGA-O2A-C1 |
| 21 | 0 | 1501 | CLA | O1A-CGA-O2A-C1 |
| 31 | b | 5006 | SQD | O10-C23-O48-C46 |
| 35 | 0 | 6001 | LMT | O5B-C5B-C6B-O6B |
| 26 | 0 | 5001 | LMG | C4-C5-C6-O5 |
| 21 | B | 1231 | CLA | O1D-CGD-O2D-CED |
| 21 | F | 1302 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1133 | CLA | O1D-CGD-O2D-CED |
| 21 | b | 1022 | CLA | O1D-CGD-O2D-CED |
| 21 | b | 1206 | CLA | O1D-CGD-O2D-CED |
| 21 | b | 1227 | CLA | O1D-CGD-O2D-CED |
| 21 | b | 1235 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1106 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1213 | CLA | O1D-CGD-O2D-CED |
| 21 | 6 | 1301 | CLA | O1D-CGD-O2D-CED |
| 21 | A | 1129 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1102 | CLA | CBD-CGD-O2D-CED |
| 21 | a | 1108 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1210 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1236 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1117 | CLA | CBD-CGD-O2D-CED |
| 25 | a | 5007 | LHG | C30-C31-C32-C33 |
| 21 | B | 1214 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1138 | CLA | O1A-CGA-O2A-C1 |
| 25 | a | 5007 | LHG | C13-C14-C15-C16 |
| 25 | b | 5004 | LHG | C13-C14-C15-C16 |
| 25 | 1 | 5004 | LHG | C28-C29-C30-C31 |
| 26 | a | 5004 | LMG | C36-C37-C38-C39 |
| 26 | 2 | 5005 | LMG | C32-C33-C34-C35 |
| 21 | A | 1109 | CLA | O1D-CGD-O2D-CED |
| 21 | B | 1238 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1106 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1120 | CLA | O1D-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | 1 | 1110 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1228 | CLA | O1D-CGD-O2D-CED |
| 25 | 2 | 5004 | LHG | C7-C8-C9-C10 |
| 25 | 1 | 5003 | LHG | C33-C34-C35-C36 |
| 21 | B | 1205 | CLA | CBD-CGD-O2D-CED |
| 21 | b | 1021 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1127 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1140 | CLA | C3-C5-C6-C7 |
| 21 | B | 1203 | CLA | C3-C5-C6-C7 |
| 21 | B | 1215 | CLA | C3-C5-C6-C7 |
| 21 | B | 1216 | CLA | C3-C5-C6-C7 |
| 21 | F | 1302 | CLA | C3-C5-C6-C7 |
| 21 | b | 1230 | CLA | C3-C5-C6-C7 |
| 21 | 1 | 1012 | CLA | C3-C5-C6-C7 |
| 21 | A | 1126 | CLA | CBA-CGA-O2A-C1 |
| 21 | B | 1209 | CLA | CBA-CGA-O2A-C1 |
| 21 | B | 1214 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1126 | CLA | CBA-CGA-O2A-C1 |
| 21 | b | 1202 | CLA | CBA-CGA-O2A-C1 |
| 21 | 1 | 1138 | CLA | CBA-CGA-O2A-C1 |
| 25 | 0 | 5002 | LHG | C24-C23-O8-C6 |
| 21 | B | 1235 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1121 | CLA | O1D-CGD-O2D-CED |
| 35 | 1 | 6001 | LMT | O5B-C5B-C6B-O6B |
| 35 | 1 | 6001 | LMT | C4B-C5B-C6B-O6B |
| 25 | 1 | 5004 | LHG | C2-C3-O3-P |
| 21 | L | 1503 | CLA | O1A-CGA-O2A-C1 |
| 21 | a | 1134 | CLA | O1A-CGA-O2A-C1 |
| 25 | a | 5007 | LHG | O10-C23-O8-C6 |
| 21 | a | 1106 | CLA | C5-C6-C7-C8 |
| 21 | A | 1107 | CLA | C4-C3-C5-C6 |
| 21 | A | 1121 | CLA | C4-C3-C5-C6 |
| 21 | A | 1126 | CLA | C4-C3-C5-C6 |
| 21 | A | 1133 | CLA | C4-C3-C5-C6 |
| 21 | A | 1134 | CLA | C4-C3-C5-C6 |
| 21 | B | 1203 | CLA | C4-C3-C5-C6 |
| 21 | B | 1212 | CLA | C4-C3-C5-C6 |
| 21 | a | 1122 | CLA | C4-C3-C5-C6 |
| 21 | a | 1135 | CLA | C4-C3-C5-C6 |
| 21 | a | 1140 | CLA | C4-C3-C5-C6 |
| 21 | b | 1237 | CLA | C4-C3-C5-C6 |
| 21 | b | 1215 | CLA | C4-C3-C5-C6 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | b | 1225 | CLA | C4-C3-C5-C6 |
| 21 | 1 | 1116 | CLA | C4-C3-C5-C6 |
| 21 | 1 | 1121 | CLA | C4-C3-C5-C6 |
| 21 | 1 | 1140 | CLA | C4-C3-C5-C6 |
| 21 | 2 | 1237 | CLA | C4-C3-C5-C6 |
| 21 | 2 | 1217 | CLA | C4-C3-C5-C6 |
| 21 | 2 | 1218 | CLA | C4-C3-C5-C6 |
| 21 | 0 | 1503 | CLA | C4-C3-C5-C6 |
| 21 | A | 1107 | CLA | C2-C3-C5-C6 |
| 21 | A | 1121 | CLA | C2-C3-C5-C6 |
| 21 | A | 1126 | CLA | C2-C3-C5-C6 |
| 21 | A | 1133 | CLA | C2-C3-C5-C6 |
| 21 | A | 1134 | CLA | C2-C3-C5-C6 |
| 21 | B | 1203 | CLA | C2-C3-C5-C6 |
| 21 | B | 1235 | CLA | C2-C3-C5-C6 |
| 21 | a | 1122 | CLA | C2-C3-C5-C6 |
| 21 | a | 1135 | CLA | C2-C3-C5-C6 |
| 21 | a | 1140 | CLA | C2-C3-C5-C6 |
| 21 | b | 1237 | CLA | C2-C3-C5-C6 |
| 21 | b | 1209 | CLA | C2-C3-C5-C6 |
| 21 | b | 1215 | CLA | C2-C3-C5-C6 |
| 21 | b | 1225 | CLA | C2-C3-C5-C6 |
| 21 | 1 | 1109 | CLA | C2-C3-C5-C6 |
| 21 | 1 | 1116 | CLA | C2-C3-C5-C6 |
| 21 | 1 | 1121 | CLA | C2-C3-C5-C6 |
| 21 | 1 | 1140 | CLA | C2-C3-C5-C6 |
| 21 | 2 | 1237 | CLA | C2-C3-C5-C6 |
| 21 | 2 | 1217 | CLA | C2-C3-C5-C6 |
| 21 | 2 | 1218 | CLA | C2-C3-C5-C6 |
| 21 | 0 | 1503 | CLA | C2-C3-C5-C6 |
| 21 | A | 1108 | CLA | C2A-CAA-CBA-CGA |
| 21 | B | 1214 | CLA | C2A-CAA-CBA-CGA |
| 21 | B | 1216 | CLA | C2A-CAA-CBA-CGA |
| 21 | B | 1218 | CLA | C2A-CAA-CBA-CGA |
| 21 | B | 1239 | CLA | C2A-CAA-CBA-CGA |
| 21 | b | 1237 | CLA | C2A-CAA-CBA-CGA |
| 21 | 1 | 1106 | CLA | C2A-CAA-CBA-CGA |
| 21 | 2 | 1213 | CLA | C2A-CAA-CBA-CGA |
| 21 | 2 | 1225 | CLA | C2A-CAA-CBA-CGA |
| 21 | A | 1115 | CLA | O1D-CGD-O2D-CED |
| 21 | L | 1503 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1132 | CLA | O1D-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | b | 1230 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1211 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1239 | CLA | O1D-CGD-O2D-CED |
| 21 | A | 1126 | CLA | O1A-CGA-O2A-C1 |
| 21 | a | 1126 | CLA | O1A-CGA-O2A-C1 |
| 21 | b | 1206 | CLA | O1A-CGA-O2A-C1 |
| 31 | b | 5006 | SQD | O5-C1-O6-C44 |
| 21 | a | 1103 | CLA | C3-C5-C6-C7 |
| 21 | 2 | 1206 | CLA | CBA-CGA-O2A-C1 |
| 37 | L | 5004 | DGD | O6D-C5D-C6D-O5D |
| 21 | A | 1102 | CLA | O1D-CGD-O2D-CED |
| 21 | J | 1303 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1013 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1105 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1124 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1103 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1120 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1128 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1117 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1117 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1135 | CLA | O1A-CGA-O2A-C1 |
| 25 | A | 5001 | LHG | C11-C12-C13-C14 |
| 21 | A | 1012 | CLA | O1D-CGD-O2D-CED |
| 21 | b | 1204 | CLA | O1D-CGD-O2D-CED |
| 21 | b | 1214 | CLA | O1D-CGD-O2D-CED |
| 21 | b | 1240 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1123 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1135 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1235 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1230 | CLA | O1D-CGD-O2D-CED |
| 21 | 0 | 1503 | CLA | O1D-CGD-O2D-CED |
| 21 | B | 1222 | CLA | CBD-CGD-O2D-CED |
| 25 | A | 5006 | LHG | C1-C2-C3-O3 |
| 25 | B | 5004 | LHG | C1-C2-C3-O3 |
| 25 | F | 5002 | LHG | C1-C2-C3-O3 |
| 25 | a | 5003 | LHG | C1-C2-C3-O3 |
| 25 | a | 5007 | LHG | C1-C2-C3-O3 |
| 25 | 1 | 5003 | LHG | C1-C2-C3-O3 |
| 25 | 1 | 5005 | LHG | C1-C2-C3-O3 |
| 25 | 1 | 5007 | LHG | C1-C2-C3-O3 |
| 25 | 2 | 5004 | LHG | C1-C2-C3-O3 |
| 21 | b | 1239 | CLA | O1A-CGA-O2A-C1 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | 2 | 1210 | CLA | O1A-CGA-O2A-C1 |
| 21 | A | 1801 | CLA | C3-C5-C6-C7 |
| 21 | B | 1226 | CLA | C3-C5-C6-C7 |
| 21 | B | 1231 | CLA | C3-C5-C6-C7 |
| 21 | b | 1208 | CLA | C3-C5-C6-C7 |
| 21 | b | 1238 | CLA | C3-C5-C6-C7 |
| 21 | K | 1402 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1127 | CLA | O1D-CGD-O2D-CED |
| 21 | b | 1208 | CLA | O1D-CGD-O2D-CED |
| 21 | b | 1228 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1102 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1012 | CLA | O1D-CGD-O2D-CED |
| 21 | A | 1121 | CLA | CBA-CGA-O2A-C1 |
| 21 | A | 1135 | CLA | CBA-CGA-O2A-C1 |
| 21 | B | 1208 | CLA | CBA-CGA-O2A-C1 |
| 21 | B | 1239 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1112 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1123 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1128 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1137 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1130 | CLA | CBA-CGA-O2A-C1 |
| 21 | b | 1023 | CLA | CBA-CGA-O2A-C1 |
| 21 | b | 1206 | CLA | CBA-CGA-O2A-C1 |
| 21 | b | 1212 | CLA | CBA-CGA-O2A-C1 |
| 21 | b | 1216 | CLA | CBA-CGA-O2A-C1 |
| 21 | b | 1221 | CLA | CBA-CGA-O2A-C1 |
| 21 | b | 1239 | CLA | CBA-CGA-O2A-C1 |
| 21 | b | 1240 | CLA | CBA-CGA-O2A-C1 |
| 21 | l | 1502 | CLA | CBA-CGA-O2A-C1 |
| 21 | l | 1503 | CLA | CBA-CGA-O2A-C1 |
| 21 | 1 | 1123 | CLA | CBA-CGA-O2A-C1 |
| 21 | 1 | 1128 | CLA | CBA-CGA-O2A-C1 |
| 21 | 2 | 1023 | CLA | CBA-CGA-O2A-C1 |
| 21 | 2 | 1201 | CLA | CBA-CGA-O2A-C1 |
| 21 | 2 | 1202 | CLA | CBA-CGA-O2A-C1 |
| 21 | 2 | 1210 | CLA | CBA-CGA-O2A-C1 |
| 21 | 2 | 1236 | CLA | CBA-CGA-O2A-C1 |
| 21 | 2 | 1239 | CLA | CBA-CGA-O2A-C1 |
| 26 | K | 5009 | LMG | C29-C28-O8-C9 |
| 26 | 0 | 5001 | LMG | C29-C28-O8-C9 |
| 21 | a | 1133 | CLA | C8-C10-C11-C12 |
| 21 | A | 1013 | CLA | CBD-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | K | 1401 | CLA | CBD-CGD-O2D-CED |
| 24 | h | 4018 | BCR | C15-C16-C17-C18 |
| 25 | b | 5004 | LHG | C23-C24-C25-C26 |
| 21 | A | 1133 | CLA | C15-C16-C17-C18 |
| 21 | A | 1136 | CLA | C15-C16-C17-C18 |
| 21 | B | 1203 | CLA | C13-C15-C16-C17 |
| 21 | B | 1223 | CLA | C8-C10-C11-C12 |
| 21 | F | 1302 | CLA | C8-C10-C11-C12 |
| 21 | K | 1401 | CLA | C13-C15-C16-C17 |
| 21 | a | 1136 | CLA | C13-C15-C16-C17 |
| 21 | b | 1237 | CLA | C5-C6-C7-C8 |
| 21 | b | 1213 | CLA | C5-C6-C7-C8 |
| 21 | b | 1214 | CLA | C13-C15-C16-C17 |
| 21 | 1 | 1118 | CLA | C15-C16-C17-C18 |
| 21 | 1 | 1123 | CLA | O1A-CGA-O2A-C1 |
| 35 | 0 | 6001 | LMT | C4B-C5B-C6B-O6B |
| 21 | A | 1132 | CLA | C13-C15-C16-C17 |
| 21 | A | 1133 | CLA | C8-C10-C11-C12 |
| 21 | B | 1205 | CLA | C8-C10-C11-C12 |
| 21 | B | 1208 | CLA | C5-C6-C7-C8 |
| 21 | B | 1213 | CLA | C15-C16-C17-C18 |
| 21 | B | 1240 | CLA | C15-C16-C17-C18 |
| 21 | F | 1302 | CLA | C15-C16-C17-C18 |
| 21 | J | 1303 | CLA | C8-C10-C11-C12 |
| 21 | a | 1111 | CLA | C10-C11-C12-C13 |
| 21 | a | 1135 | CLA | C13-C15-C16-C17 |
| 21 | b | 1021 | CLA | C5-C6-C7-C8 |
| 21 | b | 1207 | CLA | C10-C11-C12-C13 |
| 21 | b | 1213 | CLA | C15-C16-C17-C18 |
| 21 | b | 1225 | CLA | C5-C6-C7-C8 |
| 21 | b | 1231 | CLA | C5-C6-C7-C8 |
| 21 | b | 1232 | CLA | C15-C16-C17-C18 |
| 21 | 1 | 1125 | CLA | C10-C11-C12-C13 |
| 21 | 1 | 1126 | CLA | C13-C15-C16-C17 |
| 21 | 1 | 1134 | CLA | C8-C10-C11-C12 |
| 21 | 1 | 1801 | CLA | C5-C6-C7-C8 |
| 21 | 2 | 1210 | CLA | C13-C15-C16-C17 |
| 21 | 0 | 1503 | CLA | C10-C11-C12-C13 |
| 25 | B | 5004 | LHG | O2-C2-C3-O3 |
| 25 | a | 5001 | LHG | O2-C2-C3-O3 |
| 25 | a | 5003 | LHG | O2-C2-C3-O3 |
| 25 | a | 5005 | LHG | O2-C2-C3-O3 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 25 | l | 5003 | LHG | O2-C2-C3-O3 |
| 25 | 1 | 5007 | LHG | O2-C2-C3-O3 |
| 25 | 2 | 5004 | LHG | O2-C2-C3-O3 |
| 25 | a | 5007 | LHG | C7-C8-C9-C10 |
| 26 | A | 5002 | LMG | C2-C1-O1-C7 |
| 26 | b | 5005 | LMG | C2-C1-O1-C7 |
| 26 | b | 5007 | LMG | C2-C1-O1-C7 |
| 21 | a | 1123 | CLA | O1A-CGA-O2A-C1 |
| 21 | b | 1023 | CLA | O1A-CGA-O2A-C1 |
| 21 | b | 1216 | CLA | O1A-CGA-O2A-C1 |
| 21 | b | 1221 | CLA | O1A-CGA-O2A-C1 |
| 21 | b | 1240 | CLA | O1A-CGA-O2A-C1 |
| 21 | 2 | 1236 | CLA | O1A-CGA-O2A-C1 |
| 21 | f | 1302 | CLA | C4-C3-C5-C6 |
| 21 | a | 1127 | CLA | C2-C3-C5-C6 |
| 21 | b | 1235 | CLA | C2-C3-C5-C6 |
| 21 | 2 | 1226 | CLA | C2-C3-C5-C6 |
| 21 | A | 1106 | CLA | C14-C13-C15-C16 |
| 21 | A | 1107 | CLA | C6-C7-C8-C9 |
| 21 | A | 1107 | CLA | C14-C13-C15-C16 |
| 21 | A | 1110 | CLA | C6-C7-C8-C9 |
| 21 | A | 1116 | CLA | C6-C7-C8-C9 |
| 21 | A | 1116 | CLA | C11-C10-C8-C9 |
| 21 | A | 1118 | CLA | C11-C10-C8-C9 |
| 21 | A | 1125 | CLA | C14-C13-C15-C16 |
| 21 | A | 1126 | CLA | C14-C13-C15-C16 |
| 21 | A | 1129 | CLA | C11-C10-C8-C9 |
| 21 | A | 1131 | CLA | C11-C10-C8-C9 |
| 21 | A | 1134 | CLA | C14-C13-C15-C16 |
| 21 | A | 1137 | CLA | C11-C12-C13-C14 |
| 21 | A | 1012 | CLA | C11-C10-C8-C9 |
| 21 | A | 1012 | CLA | C11-C12-C13-C14 |
| 21 | B | 1023 | CLA | C11-C12-C13-C14 |
| 21 | B | 1201 | CLA | C11-C10-C8-C9 |
| 21 | B | 1206 | CLA | C14-C13-C15-C16 |
| 21 | B | 1215 | CLA | C6-C7-C8-C9 |
| 21 | B | 1221 | CLA | C11-C12-C13-C14 |
| 21 | B | 1228 | CLA | C6-C7-C8-C9 |
| 21 | F | 1301 | CLA | C14-C13-C15-C16 |
| 21 | F | 1302 | CLA | C11-C12-C13-C14 |
| 21 | L | 1502 | CLA | C6-C7-C8-C9 |
| 21 | a | 1013 | CLA | C14-C13-C15-C16 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | a | 1106 | CLA | C14-C13-C15-C16 |
| 21 | a | 1110 | CLA | C6-C7-C8-C9 |
| 21 | a | 1111 | CLA | C11-C12-C13-C14 |
| 21 | a | 1115 | CLA | C11-C12-C13-C14 |
| 21 | a | 1117 | CLA | C14-C13-C15-C16 |
| 21 | a | 1118 | CLA | C11-C12-C13-C14 |
| 21 | a | 1119 | CLA | C11-C10-C8-C9 |
| 21 | a | 1122 | CLA | C14-C13-C15-C16 |
| 21 | a | 1123 | CLA | C6-C7-C8-C9 |
| 21 | a | 1126 | CLA | C11-C12-C13-C14 |
| 21 | a | 1126 | CLA | C14-C13-C15-C16 |
| 21 | a | 1128 | CLA | C11-C12-C13-C14 |
| 21 | a | 1131 | CLA | C6-C7-C8-C9 |
| 21 | a | 1140 | CLA | C11-C12-C13-C14 |
| 21 | a | 1130 | CLA | C6-C7-C8-C9 |
| 21 | a | 1130 | CLA | C11-C12-C13-C14 |
| 21 | a | 1012 | CLA | C11-C10-C8-C9 |
| 21 | a | 1012 | CLA | C11-C12-C13-C14 |
| 21 | b | 1202 | CLA | C14-C13-C15-C16 |
| 21 | b | 1206 | CLA | C14-C13-C15-C16 |
| 21 | b | 1208 | CLA | C6-C7-C8-C9 |
| 21 | b | 1211 | CLA | C11-C12-C13-C14 |
| 21 | b | 1219 | CLA | C11-C10-C8-C9 |
| 21 | b | 1222 | CLA | C11-C12-C13-C14 |
| 21 | b | 1231 | CLA | C14-C13-C15-C16 |
| 21 | b | 1232 | CLA | C6-C7-C8-C9 |
| 21 | l | 1503 | CLA | C14-C13-C15-C16 |
| 21 | 1 | 1115 | CLA | C6-C7-C8-C9 |
| 21 | 1 | 1120 | CLA | C11-C12-C13-C14 |
| 21 | 1 | 1122 | CLA | C6-C7-C8-C9 |
| 21 | 1 | 1126 | CLA | C6-C7-C8-C9 |
| 21 | 1 | 1128 | CLA | C11-C10-C8-C9 |
| 21 | 1 | 1133 | CLA | C11-C10-C8-C9 |
| 21 | 1 | 1133 | CLA | C14-C13-C15-C16 |
| 21 | 2 | 1022 | CLA | C11-C12-C13-C14 |
| 21 | 2 | 1210 | CLA | C6-C7-C8-C9 |
| 21 | 0 | 1502 | CLA | C6-C7-C8-C9 |
| 22 | b | 2002 | PQN | C21-C22-C23-C24 |
| 21 | A | 1132 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1110 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1115 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1022 | CLA | O1D-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | 2 | 1204 | CLA | O1D-CGD-O2D-CED |
| 21 | A | 1106 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1131 | CLA | C5-C6-C7-C8 |
| 21 | B | 1203 | CLA | C10-C11-C12-C13 |
| 21 | L | 1503 | CLA | C8-C10-C11-C12 |
| 21 | a | 1106 | CLA | C10-C11-C12-C13 |
| 21 | 1 | 1128 | CLA | C8-C10-C11-C12 |
| 21 | 1 | 1101 | CLA | C10-C11-C12-C13 |
| 21 | b | 1225 | CLA | C2A-CAA-CBA-CGA |
| 21 | l | 1501 | CLA | C2A-CAA-CBA-CGA |
| 24 | A | 4003 | BCR | C7-C8-C9-C34 |
| 24 | A | 4007 | BCR | C37-C22-C23-C24 |
| 24 | B | 4004 | BCR | C36-C18-C19-C20 |
| 24 | B | 4014 | BCR | C7-C8-C9-C34 |
| 24 | B | 4014 | BCR | C11-C12-C13-C35 |
| 24 | I | 4018 | BCR | C36-C18-C19-C20 |
| 24 | J | 4013 | BCR | C11-C12-C13-C35 |
| 24 | a | 4001 | BCR | C37-C22-C23-C24 |
| 24 | a | 4008 | BCR | C37-C22-C23-C24 |
| 24 | b | 4004 | BCR | C11-C12-C13-C35 |
| 24 | b | 4004 | BCR | C37-C22-C23-C24 |
| 24 | b | 4010 | BCR | C37-C22-C23-C24 |
| 24 | b | 4017 | BCR | C11-C12-C13-C35 |
| 24 | b | 4018 | BCR | C37-C22-C23-C24 |
| 24 | b | 4014 | BCR | C11-C12-C13-C35 |
| 24 | j | 4013 | BCR | C11-C12-C13-C35 |
| 24 | 1 | 4001 | BCR | C11-C12-C13-C35 |
| 24 | 1 | 4003 | BCR | C11-C12-C13-C35 |
| 24 | 1 | 4003 | BCR | C37-C22-C23-C24 |
| 24 | 1 | 4007 | BCR | C7-C8-C9-C34 |
| 24 | 1 | 4008 | BCR | C36-C18-C19-C20 |
| 24 | 1 | 4012 | BCR | C37-C22-C23-C24 |
| 24 | 2 | 4004 | BCR | C37-C22-C23-C24 |
| 24 | 2 | 4017 | BCR | C11-C12-C13-C35 |
| 24 | 2 | 4014 | BCR | C11-C12-C13-C35 |
| 24 | 7 | 4013 | BCR | C37-C22-C23-C24 |
| 24 | 0 | 4019 | BCR | C11-C12-C13-C35 |
| 24 | 0 | 4019 | BCR | C37-C22-C23-C24 |
| 24 | 0 | 4022 | BCR | C37-C22-C23-C24 |
| 24 | 9 | 4021 | BCR | C37-C22-C23-C24 |
| 30 | b | 4011 | ECH | C7-C8-C9-C34 |
| 30 | b | 4011 | ECH | C37-C22-C23-C24 |

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| Mol | Chain | Res | Type | Atoms |
|------------|--------------|------------|-------------|-----------------|
| 30 | b | 4006 | ECH | C37-C22-C23-C24 |
| 30 | i | 4020 | ECH | C11-C12-C13-C35 |
| 30 | 2 | 4006 | ECH | C7-C8-C9-C34 |
| 30 | 2 | 4006 | ECH | C36-C18-C19-C20 |
| 30 | 2 | 4006 | ECH | C37-C22-C23-C24 |
| 36 | I | 4020 | EQ3 | C7-C8-C9-C34 |
| 24 | B | 4005 | BCR | C21-C22-C23-C24 |
| 24 | B | 4014 | BCR | C11-C12-C13-C14 |
| 24 | I | 4018 | BCR | C17-C18-C19-C20 |
| 24 | J | 4013 | BCR | C11-C12-C13-C14 |
| 24 | b | 4004 | BCR | C11-C12-C13-C14 |
| 24 | b | 4004 | BCR | C21-C22-C23-C24 |
| 24 | b | 4010 | BCR | C21-C22-C23-C24 |
| 24 | b | 4018 | BCR | C21-C22-C23-C24 |
| 24 | b | 4014 | BCR | C11-C12-C13-C14 |
| 24 | i | 4018 | BCR | C11-C12-C13-C14 |
| 24 | j | 4013 | BCR | C11-C12-C13-C14 |
| 24 | 1 | 4001 | BCR | C11-C12-C13-C14 |
| 24 | 2 | 4017 | BCR | C11-C12-C13-C14 |
| 24 | 2 | 4014 | BCR | C11-C12-C13-C14 |
| 24 | 7 | 4013 | BCR | C11-C12-C13-C14 |
| 24 | 7 | 4013 | BCR | C21-C22-C23-C24 |
| 24 | 0 | 4019 | BCR | C11-C12-C13-C14 |
| 24 | 0 | 4019 | BCR | C21-C22-C23-C24 |
| 30 | b | 4011 | ECH | C7-C8-C9-C10 |
| 30 | i | 4020 | ECH | C11-C12-C13-C14 |
| 30 | 2 | 4006 | ECH | C17-C18-C19-C20 |
| 30 | 2 | 4006 | ECH | C21-C22-C23-C24 |
| 25 | F | 5002 | LHG | C8-C7-O7-C5 |
| 25 | a | 5003 | LHG | C23-C24-C25-C26 |
| 25 | l | 5001 | LHG | C23-C24-C25-C26 |
| 25 | 1 | 5007 | LHG | C7-C8-C9-C10 |
| 21 | A | 1121 | CLA | O1A-CGA-O2A-C1 |
| 21 | a | 1112 | CLA | O1A-CGA-O2A-C1 |
| 21 | a | 1130 | CLA | O1A-CGA-O2A-C1 |
| 21 | b | 1212 | CLA | O1A-CGA-O2A-C1 |
| 21 | l | 1503 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1128 | CLA | O1A-CGA-O2A-C1 |
| 21 | 2 | 1023 | CLA | O1A-CGA-O2A-C1 |
| 21 | 2 | 1201 | CLA | O1A-CGA-O2A-C1 |
| 21 | A | 1111 | CLA | C15-C16-C17-C18 |
| 21 | A | 1116 | CLA | C5-C6-C7-C8 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | A | 1130 | CLA | C5-C6-C7-C8 |
| 21 | B | 1209 | CLA | C15-C16-C17-C18 |
| 21 | B | 1218 | CLA | C5-C6-C7-C8 |
| 21 | B | 1218 | CLA | C10-C11-C12-C13 |
| 21 | B | 1225 | CLA | C5-C6-C7-C8 |
| 21 | B | 1225 | CLA | C13-C15-C16-C17 |
| 21 | B | 1240 | CLA | C13-C15-C16-C17 |
| 21 | L | 1501 | CLA | C13-C15-C16-C17 |
| 21 | a | 1118 | CLA | C5-C6-C7-C8 |
| 21 | b | 1239 | CLA | C8-C10-C11-C12 |
| 21 | l | 1503 | CLA | C10-C11-C12-C13 |
| 21 | 1 | 1012 | CLA | C5-C6-C7-C8 |
| 22 | 2 | 2002 | PQN | C23-C25-C26-C27 |
| 21 | B | 1213 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1205 | CLA | O1D-CGD-O2D-CED |
| 21 | B | 1210 | CLA | C3-C5-C6-C7 |
| 21 | L | 1502 | CLA | C3-C5-C6-C7 |
| 21 | b | 1203 | CLA | C3-C5-C6-C7 |
| 21 | b | 1210 | CLA | C3-C5-C6-C7 |
| 21 | b | 1215 | CLA | C3-C5-C6-C7 |
| 21 | b | 1232 | CLA | CBA-CGA-O2A-C1 |
| 21 | A | 1102 | CLA | C10-C11-C12-C13 |
| 21 | A | 1103 | CLA | C13-C15-C16-C17 |
| 21 | A | 1104 | CLA | C15-C16-C17-C18 |
| 21 | A | 1106 | CLA | C8-C10-C11-C12 |
| 21 | A | 1106 | CLA | C15-C16-C17-C18 |
| 21 | A | 1110 | CLA | C8-C10-C11-C12 |
| 21 | A | 1110 | CLA | C10-C11-C12-C13 |
| 21 | A | 1113 | CLA | C13-C15-C16-C17 |
| 21 | A | 1125 | CLA | C5-C6-C7-C8 |
| 21 | A | 1137 | CLA | C8-C10-C11-C12 |
| 21 | A | 1140 | CLA | C8-C10-C11-C12 |
| 21 | A | 1101 | CLA | C10-C11-C12-C13 |
| 21 | A | 1012 | CLA | C5-C6-C7-C8 |
| 21 | B | 1206 | CLA | C10-C11-C12-C13 |
| 21 | B | 1214 | CLA | C13-C15-C16-C17 |
| 21 | B | 1214 | CLA | C15-C16-C17-C18 |
| 21 | B | 1215 | CLA | C13-C15-C16-C17 |
| 21 | B | 1217 | CLA | C10-C11-C12-C13 |
| 21 | B | 1228 | CLA | C15-C16-C17-C18 |
| 21 | B | 1207 | CLA | C13-C15-C16-C17 |
| 21 | a | 1013 | CLA | C10-C11-C12-C13 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | a | 1013 | CLA | C13-C15-C16-C17 |
| 21 | a | 1117 | CLA | C13-C15-C16-C17 |
| 21 | a | 1125 | CLA | C13-C15-C16-C17 |
| 21 | a | 1127 | CLA | C15-C16-C17-C18 |
| 21 | a | 1131 | CLA | C10-C11-C12-C13 |
| 21 | a | 1135 | CLA | C10-C11-C12-C13 |
| 21 | a | 1130 | CLA | C15-C16-C17-C18 |
| 21 | b | 1214 | CLA | C8-C10-C11-C12 |
| 21 | b | 1223 | CLA | C15-C16-C17-C18 |
| 21 | b | 1228 | CLA | C5-C6-C7-C8 |
| 21 | b | 1228 | CLA | C13-C15-C16-C17 |
| 21 | j | 1302 | CLA | C5-C6-C7-C8 |
| 21 | 1 | 1103 | CLA | C5-C6-C7-C8 |
| 21 | 1 | 1109 | CLA | C10-C11-C12-C13 |
| 21 | 1 | 1118 | CLA | C10-C11-C12-C13 |
| 21 | 1 | 1134 | CLA | C5-C6-C7-C8 |
| 21 | 1 | 1136 | CLA | C8-C10-C11-C12 |
| 21 | 2 | 1202 | CLA | C13-C15-C16-C17 |
| 21 | 2 | 1205 | CLA | C8-C10-C11-C12 |
| 21 | 2 | 1210 | CLA | C8-C10-C11-C12 |
| 21 | 2 | 1215 | CLA | C8-C10-C11-C12 |
| 21 | 2 | 1225 | CLA | C5-C6-C7-C8 |
| 25 | 1 | 5003 | LHG | C9-C10-C11-C12 |
| 25 | A | 5006 | LHG | C7-C8-C9-C10 |
| 25 | 1 | 5005 | LHG | C7-C8-C9-C10 |
| 31 | L | 5002 | SQD | C7-C8-C9-C10 |
| 21 | A | 1103 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1222 | CLA | O1D-CGD-O2D-CED |
| 21 | B | 1228 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1133 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1013 | CLA | C10-C11-C12-C13 |
| 21 | A | 1103 | CLA | C15-C16-C17-C18 |
| 21 | A | 1105 | CLA | C15-C16-C17-C18 |
| 21 | A | 1106 | CLA | C13-C15-C16-C17 |
| 21 | A | 1107 | CLA | C5-C6-C7-C8 |
| 21 | A | 1110 | CLA | C5-C6-C7-C8 |
| 21 | A | 1110 | CLA | C13-C15-C16-C17 |
| 21 | A | 1118 | CLA | C5-C6-C7-C8 |
| 21 | A | 1120 | CLA | C13-C15-C16-C17 |
| 21 | A | 1134 | CLA | C5-C6-C7-C8 |
| 21 | A | 1134 | CLA | C8-C10-C11-C12 |
| 21 | A | 1134 | CLA | C15-C16-C17-C18 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | B | 1201 | CLA | C10-C11-C12-C13 |
| 21 | B | 1208 | CLA | C15-C16-C17-C18 |
| 21 | B | 1211 | CLA | C8-C10-C11-C12 |
| 21 | B | 1215 | CLA | C5-C6-C7-C8 |
| 21 | B | 1215 | CLA | C10-C11-C12-C13 |
| 21 | B | 1216 | CLA | C15-C16-C17-C18 |
| 21 | B | 1218 | CLA | C13-C15-C16-C17 |
| 21 | B | 1221 | CLA | C15-C16-C17-C18 |
| 21 | B | 1229 | CLA | C8-C10-C11-C12 |
| 21 | B | 1234 | CLA | C10-C11-C12-C13 |
| 21 | J | 1302 | CLA | C8-C10-C11-C12 |
| 21 | K | 1401 | CLA | C5-C6-C7-C8 |
| 21 | K | 1402 | CLA | C13-C15-C16-C17 |
| 21 | L | 1503 | CLA | C15-C16-C17-C18 |
| 21 | a | 1111 | CLA | C5-C6-C7-C8 |
| 21 | a | 1112 | CLA | C5-C6-C7-C8 |
| 21 | a | 1121 | CLA | C10-C11-C12-C13 |
| 21 | a | 1122 | CLA | C13-C15-C16-C17 |
| 21 | a | 1123 | CLA | C15-C16-C17-C18 |
| 21 | a | 1124 | CLA | C5-C6-C7-C8 |
| 21 | a | 1133 | CLA | C15-C16-C17-C18 |
| 21 | a | 1139 | CLA | C13-C15-C16-C17 |
| 21 | b | 1208 | CLA | C8-C10-C11-C12 |
| 21 | b | 1209 | CLA | C15-C16-C17-C18 |
| 21 | b | 1215 | CLA | C5-C6-C7-C8 |
| 21 | b | 1216 | CLA | C5-C6-C7-C8 |
| 21 | b | 1218 | CLA | C10-C11-C12-C13 |
| 21 | b | 1218 | CLA | C13-C15-C16-C17 |
| 21 | b | 1220 | CLA | C15-C16-C17-C18 |
| 21 | b | 1222 | CLA | C10-C11-C12-C13 |
| 21 | b | 1231 | CLA | C15-C16-C17-C18 |
| 21 | b | 1240 | CLA | C8-C10-C11-C12 |
| 21 | j | 1303 | CLA | C5-C6-C7-C8 |
| 21 | 1 | 1106 | CLA | C13-C15-C16-C17 |
| 21 | 1 | 1117 | CLA | C15-C16-C17-C18 |
| 21 | 1 | 1122 | CLA | C10-C11-C12-C13 |
| 21 | 1 | 1126 | CLA | C10-C11-C12-C13 |
| 21 | 1 | 1131 | CLA | C5-C6-C7-C8 |
| 21 | 2 | 1208 | CLA | C8-C10-C11-C12 |
| 21 | a | 1135 | CLA | O1D-CGD-O2D-CED |
| 25 | 0 | 5002 | LHG | O1-C1-C2-O2 |
| 21 | A | 1135 | CLA | O1A-CGA-O2A-C1 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | 2 | 1239 | CLA | O1A-CGA-O2A-C1 |
| 25 | A | 5001 | LHG | C23-C24-C25-C26 |
| 25 | A | 5007 | LHG | C23-C24-C25-C26 |
| 25 | F | 5002 | LHG | C23-C24-C25-C26 |
| 25 | a | 5001 | LHG | C7-C8-C9-C10 |
| 25 | a | 5005 | LHG | C7-C8-C9-C10 |
| 25 | l | 5001 | LHG | C7-C8-C9-C10 |
| 25 | l | 5003 | LHG | C23-C24-C25-C26 |
| 25 | 1 | 5005 | LHG | C23-C24-C25-C26 |
| 25 | 1 | 5007 | LHG | C23-C24-C25-C26 |
| 25 | 0 | 5004 | LHG | C23-C24-C25-C26 |
| 26 | b | 5007 | LMG | C28-C29-C30-C31 |
| 26 | 1 | 5002 | LMG | C28-C29-C30-C31 |
| 21 | b | 1202 | CLA | CBD-CGD-O2D-CED |
| 21 | 1 | 1132 | CLA | O1D-CGD-O2D-CED |
| 21 | A | 1114 | CLA | C10-C11-C12-C13 |
| 21 | A | 1136 | CLA | C5-C6-C7-C8 |
| 21 | B | 1023 | CLA | C8-C10-C11-C12 |
| 21 | B | 1216 | CLA | C8-C10-C11-C12 |
| 21 | B | 1223 | CLA | C5-C6-C7-C8 |
| 21 | B | 1229 | CLA | C5-C6-C7-C8 |
| 21 | B | 1234 | CLA | C5-C6-C7-C8 |
| 21 | B | 1238 | CLA | C5-C6-C7-C8 |
| 21 | K | 1401 | CLA | C15-C16-C17-C18 |
| 21 | b | 1218 | CLA | C5-C6-C7-C8 |
| 21 | b | 1219 | CLA | C8-C10-C11-C12 |
| 21 | b | 1224 | CLA | C5-C6-C7-C8 |
| 21 | b | 1201 | CLA | C13-C15-C16-C17 |
| 21 | j | 1302 | CLA | C10-C11-C12-C13 |
| 21 | 1 | 1125 | CLA | C15-C16-C17-C18 |
| 21 | 1 | 1128 | CLA | C10-C11-C12-C13 |
| 21 | 1 | 1131 | CLA | C13-C15-C16-C17 |
| 21 | 1 | 1133 | CLA | C15-C16-C17-C18 |
| 21 | 1 | 1101 | CLA | C15-C16-C17-C18 |
| 22 | 1 | 2001 | PQN | C18-C20-C21-C22 |
| 21 | A | 1130 | CLA | C3-C5-C6-C7 |
| 21 | A | 1113 | CLA | CBA-CGA-O2A-C1 |
| 21 | A | 1134 | CLA | CBA-CGA-O2A-C1 |
| 21 | A | 1139 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1113 | CLA | CBA-CGA-O2A-C1 |
| 21 | b | 1209 | CLA | CBA-CGA-O2A-C1 |
| 21 | b | 1217 | CLA | CBA-CGA-O2A-C1 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | b | 1201 | CLA | CBA-CGA-O2A-C1 |
| 21 | j | 1302 | CLA | CBA-CGA-O2A-C1 |
| 21 | 2 | 1234 | CLA | CBA-CGA-O2A-C1 |
| 25 | F | 5002 | LHG | C24-C23-O8-C6 |
| 25 | a | 5005 | LHG | C24-C23-O8-C6 |
| 21 | 1 | 1801 | CLA | O1D-CGD-O2D-CED |
| 21 | A | 1104 | CLA | C2-C1-O2A-CGA |
| 21 | A | 1108 | CLA | C2-C1-O2A-CGA |
| 21 | A | 1111 | CLA | C2-C1-O2A-CGA |
| 21 | A | 1112 | CLA | C2-C1-O2A-CGA |
| 21 | A | 1119 | CLA | C2-C1-O2A-CGA |
| 21 | A | 1123 | CLA | C2-C1-O2A-CGA |
| 21 | A | 1137 | CLA | C2-C1-O2A-CGA |
| 21 | A | 1138 | CLA | C2-C1-O2A-CGA |
| 21 | A | 1139 | CLA | C2-C1-O2A-CGA |
| 21 | A | 1101 | CLA | C2-C1-O2A-CGA |
| 21 | B | 1203 | CLA | C2-C1-O2A-CGA |
| 21 | B | 1228 | CLA | C2-C1-O2A-CGA |
| 21 | B | 1229 | CLA | C2-C1-O2A-CGA |
| 21 | J | 1302 | CLA | C2-C1-O2A-CGA |
| 21 | a | 1104 | CLA | C2-C1-O2A-CGA |
| 21 | a | 1107 | CLA | C2-C1-O2A-CGA |
| 21 | a | 1108 | CLA | C2-C1-O2A-CGA |
| 21 | a | 1111 | CLA | C2-C1-O2A-CGA |
| 21 | a | 1118 | CLA | C2-C1-O2A-CGA |
| 21 | a | 1119 | CLA | C2-C1-O2A-CGA |
| 21 | a | 1126 | CLA | C2-C1-O2A-CGA |
| 21 | a | 1129 | CLA | C2-C1-O2A-CGA |
| 21 | a | 1139 | CLA | C2-C1-O2A-CGA |
| 21 | a | 1140 | CLA | C2-C1-O2A-CGA |
| 21 | b | 1023 | CLA | C2-C1-O2A-CGA |
| 21 | b | 1209 | CLA | C2-C1-O2A-CGA |
| 21 | b | 1227 | CLA | C2-C1-O2A-CGA |
| 21 | b | 1229 | CLA | C2-C1-O2A-CGA |
| 21 | f | 1301 | CLA | C2-C1-O2A-CGA |
| 21 | 1 | 1013 | CLA | C2-C1-O2A-CGA |
| 21 | 1 | 1104 | CLA | C2-C1-O2A-CGA |
| 21 | 1 | 1111 | CLA | C2-C1-O2A-CGA |
| 21 | 1 | 1118 | CLA | C2-C1-O2A-CGA |
| 21 | 1 | 1122 | CLA | C2-C1-O2A-CGA |
| 21 | 1 | 1125 | CLA | C2-C1-O2A-CGA |
| 21 | 1 | 1126 | CLA | C2-C1-O2A-CGA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | 1 | 1137 | CLA | C2-C1-O2A-CGA |
| 21 | 1 | 1139 | CLA | C2-C1-O2A-CGA |
| 21 | 1 | 1101 | CLA | C2-C1-O2A-CGA |
| 21 | 2 | 1022 | CLA | C2-C1-O2A-CGA |
| 21 | 2 | 1023 | CLA | C2-C1-O2A-CGA |
| 21 | 2 | 1203 | CLA | C2-C1-O2A-CGA |
| 21 | 2 | 1214 | CLA | C2-C1-O2A-CGA |
| 21 | 2 | 1217 | CLA | C2-C1-O2A-CGA |
| 21 | 2 | 1229 | CLA | C2-C1-O2A-CGA |
| 35 | F | 6001 | LMT | O1'-C1-C2-C3 |
| 21 | B | 1202 | CLA | C15-C16-C17-C18 |
| 21 | B | 1205 | CLA | C5-C6-C7-C8 |
| 21 | B | 1213 | CLA | C13-C15-C16-C17 |
| 21 | B | 1214 | CLA | C8-C10-C11-C12 |
| 21 | a | 1102 | CLA | C5-C6-C7-C8 |
| 21 | a | 1121 | CLA | C8-C10-C11-C12 |
| 21 | b | 1206 | CLA | C15-C16-C17-C18 |
| 21 | b | 1231 | CLA | C13-C15-C16-C17 |
| 21 | b | 1236 | CLA | C13-C15-C16-C17 |
| 21 | b | 1201 | CLA | C8-C10-C11-C12 |
| 21 | l | 1502 | CLA | C5-C6-C7-C8 |
| 21 | l | 1502 | CLA | C10-C11-C12-C13 |
| 21 | 1 | 1103 | CLA | C15-C16-C17-C18 |
| 21 | 2 | 1210 | CLA | C5-C6-C7-C8 |
| 21 | A | 1112 | CLA | O1D-CGD-O2D-CED |
| 25 | A | 5003 | LHG | C7-C8-C9-C10 |
| 25 | A | 5003 | LHG | C23-C24-C25-C26 |
| 25 | B | 5006 | LHG | C7-C8-C9-C10 |
| 25 | a | 5007 | LHG | C23-C24-C25-C26 |
| 25 | l | 5004 | LHG | C23-C24-C25-C26 |
| 31 | 0 | 5005 | SQD | C23-C24-C25-C26 |
| 21 | A | 1108 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1223 | CLA | CBD-CGD-O2D-CED |
| 21 | 2 | 1234 | CLA | CBD-CGD-O2D-CED |
| 35 | L | 6001 | LMT | C5'-C4'-O1B-C1B |
| 21 | A | 1131 | CLA | C13-C15-C16-C17 |
| 21 | A | 1137 | CLA | C13-C15-C16-C17 |
| 21 | A | 1138 | CLA | C8-C10-C11-C12 |
| 21 | A | 1140 | CLA | C10-C11-C12-C13 |
| 21 | B | 1229 | CLA | C10-C11-C12-C13 |
| 21 | B | 1234 | CLA | C8-C10-C11-C12 |
| 21 | a | 1106 | CLA | C13-C15-C16-C17 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | 2 | 1201 | CLA | C13-C15-C16-C17 |
| 21 | 2 | 1205 | CLA | C13-C15-C16-C17 |
| 21 | b | 1214 | CLA | C4-C3-C5-C6 |
| 21 | A | 1113 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1101 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1216 | CLA | O1D-CGD-O2D-CED |
| 21 | A | 1110 | CLA | C6-C7-C8-C10 |
| 21 | A | 1113 | CLA | C6-C7-C8-C10 |
| 21 | A | 1117 | CLA | C11-C10-C8-C7 |
| 21 | A | 1120 | CLA | C6-C7-C8-C10 |
| 21 | A | 1125 | CLA | C6-C7-C8-C10 |
| 21 | A | 1136 | CLA | C12-C13-C15-C16 |
| 21 | A | 1012 | CLA | C6-C7-C8-C10 |
| 21 | B | 1211 | CLA | C11-C10-C8-C7 |
| 21 | B | 1216 | CLA | C11-C12-C13-C15 |
| 21 | B | 1224 | CLA | C6-C7-C8-C10 |
| 21 | a | 1104 | CLA | C6-C7-C8-C10 |
| 21 | a | 1117 | CLA | C11-C10-C8-C7 |
| 21 | a | 1121 | CLA | C11-C12-C13-C15 |
| 21 | a | 1125 | CLA | C11-C12-C13-C15 |
| 21 | a | 1136 | CLA | C11-C10-C8-C7 |
| 21 | b | 1021 | CLA | C11-C12-C13-C15 |
| 21 | b | 1208 | CLA | C11-C10-C8-C7 |
| 21 | b | 1210 | CLA | C11-C10-C8-C7 |
| 21 | b | 1211 | CLA | C11-C10-C8-C7 |
| 21 | l | 1501 | CLA | C11-C12-C13-C15 |
| 21 | l | 1503 | CLA | C11-C12-C13-C15 |
| 21 | 1 | 1104 | CLA | C11-C12-C13-C15 |
| 21 | 1 | 1120 | CLA | C11-C12-C13-C15 |
| 21 | 1 | 1131 | CLA | C6-C7-C8-C10 |
| 21 | 1 | 1133 | CLA | C6-C7-C8-C10 |
| 21 | 1 | 1101 | CLA | C11-C12-C13-C15 |
| 21 | 2 | 1210 | CLA | C11-C12-C13-C15 |
| 21 | B | 1237 | CLA | C3-C5-C6-C7 |
| 21 | B | 1204 | CLA | C3-C5-C6-C7 |
| 21 | B | 1227 | CLA | C3-C5-C6-C7 |
| 21 | a | 1122 | CLA | C3-C5-C6-C7 |
| 21 | 2 | 1204 | CLA | C3-C5-C6-C7 |
| 21 | a | 1137 | CLA | O1A-CGA-O2A-C1 |
| 21 | 2 | 1206 | CLA | O1A-CGA-O2A-C1 |
| 24 | A | 4001 | BCR | C19-C20-C21-C22 |
| 24 | B | 4018 | BCR | C13-C14-C15-C16 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 24 | I | 4018 | BCR | C15-C16-C17-C18 |
| 24 | a | 4003 | BCR | C13-C14-C15-C16 |
| 24 | 1 | 4007 | BCR | C13-C14-C15-C16 |
| 24 | 1 | 4008 | BCR | C13-C14-C15-C16 |
| 24 | 1 | 4019 | BCR | C9-C10-C11-C12 |
| 24 | 2 | 4011 | BCR | C19-C20-C21-C22 |
| 24 | 2 | 4010 | BCR | C19-C20-C21-C22 |
| 21 | 1 | 1013 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1216 | CLA | CBA-CGA-O2A-C1 |
| 21 | A | 1012 | CLA | C2A-CAA-CBA-CGA |
| 21 | B | 1204 | CLA | C2A-CAA-CBA-CGA |
| 21 | B | 1229 | CLA | C2A-CAA-CBA-CGA |
| 21 | b | 1240 | CLA | C2A-CAA-CBA-CGA |
| 21 | 1 | 1127 | CLA | C2A-CAA-CBA-CGA |
| 21 | 2 | 1211 | CLA | C2A-CAA-CBA-CGA |
| 21 | A | 1131 | CLA | O1D-CGD-O2D-CED |
| 21 | B | 1210 | CLA | O1D-CGD-O2D-CED |
| 21 | B | 1226 | CLA | O1D-CGD-O2D-CED |
| 21 | B | 1234 | CLA | O1D-CGD-O2D-CED |
| 21 | B | 1239 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1128 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1101 | CLA | O1D-CGD-O2D-CED |
| 21 | b | 1226 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1119 | CLA | O1D-CGD-O2D-CED |
| 21 | A | 1126 | CLA | C10-C11-C12-C13 |
| 21 | B | 1214 | CLA | C5-C6-C7-C8 |
| 21 | B | 1224 | CLA | C10-C11-C12-C13 |
| 21 | B | 1231 | CLA | C5-C6-C7-C8 |
| 21 | F | 1301 | CLA | C15-C16-C17-C18 |
| 21 | a | 1103 | CLA | C13-C15-C16-C17 |
| 21 | a | 1120 | CLA | C5-C6-C7-C8 |
| 21 | a | 1131 | CLA | C8-C10-C11-C12 |
| 21 | a | 1130 | CLA | C13-C15-C16-C17 |
| 21 | a | 1138 | CLA | C15-C16-C17-C18 |
| 21 | b | 1205 | CLA | C10-C11-C12-C13 |
| 21 | b | 1207 | CLA | C8-C10-C11-C12 |
| 21 | b | 1214 | CLA | C5-C6-C7-C8 |
| 21 | b | 1225 | CLA | C13-C15-C16-C17 |
| 21 | b | 1228 | CLA | C10-C11-C12-C13 |
| 21 | f | 1302 | CLA | C5-C6-C7-C8 |
| 21 | 1 | 1106 | CLA | C15-C16-C17-C18 |
| 21 | 1 | 1127 | CLA | C15-C16-C17-C18 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | 0 | 1501 | CLA | C13-C15-C16-C17 |
| 22 | a | 2001 | PQN | C18-C20-C21-C22 |
| 25 | 1 | 5003 | LHG | C17-C18-C19-C20 |
| 21 | B | 1208 | CLA | O1A-CGA-O2A-C1 |
| 26 | K | 5009 | LMG | O10-C28-O8-C9 |
| 21 | b | 1216 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1139 | CLA | C8-C10-C11-C12 |
| 21 | F | 1301 | CLA | C13-C15-C16-C17 |
| 21 | b | 1021 | CLA | C13-C15-C16-C17 |
| 21 | b | 1201 | CLA | C10-C11-C12-C13 |
| 21 | B | 1211 | CLA | O1D-CGD-O2D-CED |
| 21 | b | 1207 | CLA | O1D-CGD-O2D-CED |
| 25 | B | 5004 | LHG | C23-C24-C25-C26 |
| 26 | A | 5008 | LMG | C28-C29-C30-C31 |
| 24 | A | 4003 | BCR | C10-C11-C12-C13 |
| 24 | B | 4005 | BCR | C10-C11-C12-C13 |
| 24 | B | 4018 | BCR | C10-C11-C12-C13 |
| 24 | K | 4001 | BCR | C10-C11-C12-C13 |
| 24 | a | 4003 | BCR | C10-C11-C12-C13 |
| 24 | b | 4017 | BCR | C10-C11-C12-C13 |
| 24 | b | 4018 | BCR | C10-C11-C12-C13 |
| 24 | 1 | 4002 | BCR | C10-C11-C12-C13 |
| 24 | 1 | 4003 | BCR | C10-C11-C12-C13 |
| 24 | 1 | 4008 | BCR | C10-C11-C12-C13 |
| 24 | 2 | 4010 | BCR | C10-C11-C12-C13 |
| 24 | 2 | 4017 | BCR | C10-C11-C12-C13 |
| 24 | 7 | 4013 | BCR | C10-C11-C12-C13 |
| 24 | 0 | 4019 | BCR | C10-C11-C12-C13 |
| 35 | L | 6001 | LMT | O5B-C5B-C6B-O6B |
| 25 | A | 5003 | LHG | O2-C2-C3-O3 |
| 25 | B | 5006 | LHG | O2-C2-C3-O3 |
| 25 | a | 5007 | LHG | O2-C2-C3-O3 |
| 25 | l | 5002 | LHG | O2-C2-C3-O3 |
| 25 | 1 | 5003 | LHG | O2-C2-C3-O3 |
| 25 | F | 5002 | LHG | O9-C7-O7-C5 |
| 21 | a | 1106 | CLA | C3-C5-C6-C7 |
| 21 | B | 1220 | CLA | C8-C10-C11-C12 |
| 21 | 6 | 1302 | CLA | C2A-CAA-CBA-CGA |
| 21 | A | 1111 | CLA | C10-C11-C12-C13 |
| 21 | A | 1113 | CLA | C5-C6-C7-C8 |
| 21 | B | 1210 | CLA | C10-C11-C12-C13 |
| 21 | a | 1105 | CLA | C5-C6-C7-C8 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | a | 1108 | CLA | C5-C6-C7-C8 |
| 21 | a | 1133 | CLA | C5-C6-C7-C8 |
| 21 | b | 1220 | CLA | C5-C6-C7-C8 |
| 21 | b | 1221 | CLA | C15-C16-C17-C18 |
| 21 | b | 1232 | CLA | C10-C11-C12-C13 |
| 21 | 1 | 1106 | CLA | C10-C11-C12-C13 |
| 21 | 1 | 1118 | CLA | C8-C10-C11-C12 |
| 21 | 1 | 1125 | CLA | C8-C10-C11-C12 |
| 21 | 1 | 1134 | CLA | C15-C16-C17-C18 |
| 21 | 1 | 1136 | CLA | C13-C15-C16-C17 |
| 21 | 2 | 1221 | CLA | C13-C15-C16-C17 |
| 21 | 0 | 1502 | CLA | C13-C15-C16-C17 |
| 21 | a | 1109 | CLA | CBA-CGA-O2A-C1 |
| 21 | 2 | 1208 | CLA | CBA-CGA-O2A-C1 |
| 26 | A | 5002 | LMG | C32-C33-C34-C35 |
| 21 | A | 1125 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1239 | CLA | O1A-CGA-O2A-C1 |
| 21 | a | 1113 | CLA | O1A-CGA-O2A-C1 |
| 21 | a | 1128 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1502 | CLA | O1A-CGA-O2A-C1 |
| 21 | 2 | 1202 | CLA | O1A-CGA-O2A-C1 |
| 21 | 2 | 1234 | CLA | O1A-CGA-O2A-C1 |
| 26 | 0 | 5001 | LMG | O10-C28-O8-C9 |
| 25 | 1 | 5003 | LHG | C23-C24-C25-C26 |
| 31 | f | 5001 | SQD | C28-C29-C30-C31 |
| 21 | A | 1013 | CLA | C13-C15-C16-C17 |
| 21 | A | 1116 | CLA | C8-C10-C11-C12 |
| 21 | A | 1121 | CLA | C8-C10-C11-C12 |
| 21 | A | 1121 | CLA | C15-C16-C17-C18 |
| 21 | A | 1125 | CLA | C15-C16-C17-C18 |
| 21 | A | 1135 | CLA | C15-C16-C17-C18 |
| 21 | B | 1206 | CLA | C15-C16-C17-C18 |
| 21 | B | 1215 | CLA | C8-C10-C11-C12 |
| 21 | B | 1216 | CLA | C10-C11-C12-C13 |
| 21 | B | 1228 | CLA | C5-C6-C7-C8 |
| 21 | L | 1501 | CLA | C10-C11-C12-C13 |
| 21 | a | 1102 | CLA | C10-C11-C12-C13 |
| 21 | a | 1104 | CLA | C5-C6-C7-C8 |
| 21 | a | 1117 | CLA | C5-C6-C7-C8 |
| 21 | a | 1126 | CLA | C8-C10-C11-C12 |
| 21 | b | 1204 | CLA | C13-C15-C16-C17 |
| 21 | b | 1213 | CLA | C13-C15-C16-C17 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | b | 1235 | CLA | C15-C16-C17-C18 |
| 21 | b | 1236 | CLA | C10-C11-C12-C13 |
| 21 | f | 1302 | CLA | C15-C16-C17-C18 |
| 21 | 1 | 1106 | CLA | C5-C6-C7-C8 |
| 21 | 1 | 1120 | CLA | C5-C6-C7-C8 |
| 21 | 2 | 1201 | CLA | C10-C11-C12-C13 |
| 21 | 2 | 1202 | CLA | C10-C11-C12-C13 |
| 21 | 2 | 1203 | CLA | C13-C15-C16-C17 |
| 21 | 0 | 1503 | CLA | C5-C6-C7-C8 |
| 21 | 0 | 1503 | CLA | C13-C15-C16-C17 |
| 25 | 2 | 5004 | LHG | C34-C35-C36-C37 |
| 21 | A | 1127 | CLA | O1D-CGD-O2D-CED |
| 21 | B | 1209 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1011 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1012 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1105 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1122 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1124 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1139 | CLA | O1A-CGA-O2A-C1 |
| 21 | b | 1217 | CLA | O1A-CGA-O2A-C1 |
| 26 | 2 | 5005 | LMG | C11-C10-O7-C8 |
| 25 | 0 | 5002 | LHG | C5-C6-O8-C23 |
| 21 | A | 1109 | CLA | C13-C15-C16-C17 |
| 21 | A | 1110 | CLA | C15-C16-C17-C18 |
| 21 | A | 1119 | CLA | C5-C6-C7-C8 |
| 21 | A | 1122 | CLA | C10-C11-C12-C13 |
| 21 | A | 1124 | CLA | C8-C10-C11-C12 |
| 21 | A | 1101 | CLA | C8-C10-C11-C12 |
| 21 | B | 1205 | CLA | C10-C11-C12-C13 |
| 21 | B | 1219 | CLA | C13-C15-C16-C17 |
| 21 | F | 1302 | CLA | C10-C11-C12-C13 |
| 21 | J | 1303 | CLA | C13-C15-C16-C17 |
| 21 | a | 1110 | CLA | C5-C6-C7-C8 |
| 21 | a | 1111 | CLA | C13-C15-C16-C17 |
| 21 | a | 1138 | CLA | C13-C15-C16-C17 |
| 21 | b | 1203 | CLA | C13-C15-C16-C17 |
| 21 | b | 1240 | CLA | C10-C11-C12-C13 |
| 21 | b | 1230 | CLA | C8-C10-C11-C12 |
| 21 | 1 | 1122 | CLA | C5-C6-C7-C8 |
| 21 | 1 | 1139 | CLA | C13-C15-C16-C17 |
| 21 | 2 | 1206 | CLA | C13-C15-C16-C17 |
| 21 | 2 | 1208 | CLA | C10-C11-C12-C13 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | 2 | 1215 | CLA | C10-C11-C12-C13 |
| 21 | 2 | 1221 | CLA | C10-C11-C12-C13 |
| 21 | 2 | 1229 | CLA | C15-C16-C17-C18 |
| 21 | 0 | 1501 | CLA | C15-C16-C17-C18 |
| 22 | A | 2001 | PQN | C18-C20-C21-C22 |
| 22 | b | 2002 | PQN | C18-C20-C21-C22 |
| 25 | A | 5001 | LHG | C4-O6-P-O3 |
| 25 | A | 5003 | LHG | C3-O3-P-O6 |
| 25 | A | 5007 | LHG | C3-O3-P-O6 |
| 25 | A | 5007 | LHG | C4-O6-P-O3 |
| 25 | B | 5006 | LHG | C3-O3-P-O6 |
| 25 | B | 5006 | LHG | C4-O6-P-O3 |
| 25 | F | 5002 | LHG | C3-O3-P-O6 |
| 25 | L | 5005 | LHG | C3-O3-P-O6 |
| 25 | a | 5003 | LHG | C3-O3-P-O6 |
| 25 | a | 5005 | LHG | C3-O3-P-O6 |
| 25 | l | 5001 | LHG | C3-O3-P-O6 |
| 25 | l | 5003 | LHG | C3-O3-P-O6 |
| 25 | l | 5003 | LHG | C4-O6-P-O3 |
| 25 | l | 5002 | LHG | C3-O3-P-O6 |
| 25 | l | 5002 | LHG | C4-O6-P-O3 |
| 25 | 1 | 5003 | LHG | C3-O3-P-O6 |
| 25 | 1 | 5003 | LHG | C4-O6-P-O3 |
| 25 | 2 | 5004 | LHG | C3-O3-P-O6 |
| 25 | 0 | 5002 | LHG | C3-O3-P-O6 |
| 25 | 0 | 5004 | LHG | C3-O3-P-O6 |
| 25 | l | 5003 | LHG | C7-C8-C9-C10 |
| 21 | b | 1209 | CLA | C3-C5-C6-C7 |
| 21 | 1 | 1127 | CLA | C3-C5-C6-C7 |
| 21 | A | 1123 | CLA | CBA-CGA-O2A-C1 |
| 21 | B | 1201 | CLA | CBA-CGA-O2A-C1 |
| 21 | B | 1210 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1118 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1135 | CLA | CBA-CGA-O2A-C1 |
| 21 | b | 1226 | CLA | CBA-CGA-O2A-C1 |
| 21 | 1 | 1133 | CLA | CBA-CGA-O2A-C1 |
| 21 | 1 | 1136 | CLA | CBA-CGA-O2A-C1 |
| 21 | 2 | 1216 | CLA | CBA-CGA-O2A-C1 |
| 21 | 2 | 1222 | CLA | CBA-CGA-O2A-C1 |
| 21 | A | 1124 | CLA | O1D-CGD-O2D-CED |
| 21 | k | 1402 | CLA | O1D-CGD-O2D-CED |
| 21 | A | 1120 | CLA | C15-C16-C17-C18 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | b | 1210 | CLA | C8-C10-C11-C12 |
| 21 | b | 1211 | CLA | C5-C6-C7-C8 |
| 21 | 1 | 1104 | CLA | C10-C11-C12-C13 |
| 21 | 2 | 1202 | CLA | C15-C16-C17-C18 |
| 21 | A | 1128 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1115 | CLA | O1D-CGD-O2D-CED |
| 34 | J | 4015 | ZEX | C25-C26-C27-C28 |
| 34 | 7 | 4015 | ZEX | C25-C26-C27-C28 |
| 25 | A | 5003 | LHG | C1-C2-C3-O3 |
| 25 | A | 5007 | LHG | C1-C2-C3-O3 |
| 25 | B | 5006 | LHG | C1-C2-C3-O3 |
| 25 | L | 5005 | LHG | C1-C2-C3-O3 |
| 25 | l | 5001 | LHG | C1-C2-C3-O3 |
| 26 | K | 5009 | LMG | O6-C5-C6-O5 |
| 26 | a | 5004 | LMG | O6-C5-C6-O5 |
| 26 | 2 | 5005 | LMG | O9-C10-O7-C8 |
| 21 | B | 1216 | CLA | C4-C3-C5-C6 |
| 21 | a | 1101 | CLA | C4-C3-C5-C6 |
| 21 | 1 | 1503 | CLA | C4-C3-C5-C6 |
| 21 | 1 | 1139 | CLA | C4-C3-C5-C6 |
| 21 | 2 | 1208 | CLA | C4-C3-C5-C6 |
| 21 | A | 1109 | CLA | C15-C16-C17-C18 |
| 21 | J | 1302 | CLA | C5-C6-C7-C8 |
| 21 | b | 1211 | CLA | C15-C16-C17-C18 |
| 21 | 1 | 1124 | CLA | C5-C6-C7-C8 |
| 21 | a | 1129 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1136 | CLA | O1D-CGD-O2D-CED |
| 21 | B | 1237 | CLA | C2A-CAA-CBA-CGA |
| 21 | a | 1108 | CLA | C2A-CAA-CBA-CGA |
| 21 | a | 1127 | CLA | C2A-CAA-CBA-CGA |
| 21 | a | 1135 | CLA | C2A-CAA-CBA-CGA |
| 21 | a | 1138 | CLA | C2A-CAA-CBA-CGA |
| 21 | b | 1235 | CLA | C2A-CAA-CBA-CGA |
| 21 | 1 | 1013 | CLA | C2A-CAA-CBA-CGA |
| 21 | 1 | 1136 | CLA | C2A-CAA-CBA-CGA |
| 21 | 1 | 1138 | CLA | C2A-CAA-CBA-CGA |
| 21 | 2 | 1224 | CLA | C2A-CAA-CBA-CGA |
| 21 | A | 1107 | CLA | C16-C17-C18-C19 |
| 21 | A | 1117 | CLA | C16-C17-C18-C20 |
| 21 | A | 1125 | CLA | C16-C17-C18-C20 |
| 21 | A | 1801 | CLA | C16-C17-C18-C19 |
| 21 | 2 | 1224 | CLA | C6-C7-C8-C9 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | A | 1136 | CLA | CBA-CGA-O2A-C1 |
| 21 | A | 1137 | CLA | CBA-CGA-O2A-C1 |
| 21 | B | 1221 | CLA | CBA-CGA-O2A-C1 |
| 21 | B | 1232 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1102 | CLA | CBA-CGA-O2A-C1 |
| 21 | b | 1231 | CLA | CBA-CGA-O2A-C1 |
| 21 | 1 | 1120 | CLA | CBA-CGA-O2A-C1 |
| 21 | B | 1238 | CLA | C8-C10-C11-C12 |
| 21 | b | 1232 | CLA | O1A-CGA-O2A-C1 |
| 21 | L | 1502 | CLA | C13-C15-C16-C17 |
| 21 | b | 1222 | CLA | C8-C10-C11-C12 |
| 25 | a | 5003 | LHG | C29-C30-C31-C32 |
| 24 | a | 4019 | BCR | C19-C20-C21-C22 |
| 24 | 2 | 4010 | BCR | C13-C14-C15-C16 |
| 24 | 8 | 4001 | BCR | C19-C20-C21-C22 |
| 25 | M | 5001 | LHG | C23-C24-C25-C26 |
| 25 | 1 | 5001 | LHG | C7-C8-C9-C10 |
| 25 | B | 5006 | LHG | C26-C27-C28-C29 |
| 25 | 1 | 5003 | LHG | C32-C33-C34-C35 |
| 25 | 0 | 5004 | LHG | C24-C25-C26-C27 |
| 31 | B | 5008 | SQD | C13-C14-C15-C16 |
| 31 | F | 5001 | SQD | C12-C13-C14-C15 |
| 31 | 0 | 5005 | SQD | C31-C32-C33-C34 |
| 21 | 2 | 1226 | CLA | CBD-CGD-O2D-CED |
| 25 | 1 | 5001 | LHG | C8-C7-O7-C5 |
| 31 | f | 5001 | SQD | C8-C7-O47-C45 |
| 21 | A | 1114 | CLA | C5-C6-C7-C8 |
| 24 | A | 4007 | BCR | C11-C10-C9-C34 |
| 24 | A | 4019 | BCR | C11-C10-C9-C34 |
| 24 | b | 4010 | BCR | C11-C10-C9-C34 |
| 24 | f | 4016 | BCR | C11-C10-C9-C34 |
| 24 | 1 | 4019 | BCR | C11-C10-C9-C34 |
| 24 | 2 | 4011 | BCR | C11-C10-C9-C34 |
| 24 | 2 | 4018 | BCR | C11-C10-C9-C34 |
| 24 | 6 | 4016 | BCR | C11-C10-C9-C34 |
| 26 | A | 5008 | LMG | O6-C5-C6-O5 |
| 21 | A | 1012 | CLA | C3-C5-C6-C7 |
| 21 | B | 1229 | CLA | C3-C5-C6-C7 |
| 21 | 1 | 1121 | CLA | C3-C5-C6-C7 |
| 21 | a | 1110 | CLA | C10-C11-C12-C13 |
| 25 | A | 5006 | LHG | C13-C14-C15-C16 |
| 25 | A | 5006 | LHG | C25-C26-C27-C28 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 25 | A | 5006 | LHG | C28-C29-C30-C31 |
| 25 | B | 5004 | LHG | C11-C12-C13-C14 |
| 25 | F | 5002 | LHG | C17-C18-C19-C20 |
| 25 | F | 5002 | LHG | C29-C30-C31-C32 |
| 25 | a | 5001 | LHG | C11-C12-C13-C14 |
| 25 | l | 5003 | LHG | C29-C30-C31-C32 |
| 25 | l | 5004 | LHG | C25-C26-C27-C28 |
| 26 | A | 5008 | LMG | C21-C22-C23-C24 |
| 26 | A | 5008 | LMG | C36-C37-C38-C39 |
| 26 | B | 5002 | LMG | C22-C23-C24-C25 |
| 26 | 0 | 5001 | LMG | C39-C40-C41-C42 |
| 21 | A | 1113 | CLA | O1A-CGA-O2A-C1 |
| 21 | b | 1209 | CLA | O1A-CGA-O2A-C1 |
| 21 | b | 1201 | CLA | O1A-CGA-O2A-C1 |
| 25 | a | 5005 | LHG | O10-C23-O8-C6 |
| 21 | 2 | 1206 | CLA | O1D-CGD-O2D-CED |
| 21 | A | 1102 | CLA | C16-C17-C18-C19 |
| 21 | A | 1110 | CLA | C16-C17-C18-C20 |
| 21 | A | 1116 | CLA | C16-C17-C18-C19 |
| 21 | A | 1135 | CLA | C16-C17-C18-C20 |
| 21 | A | 1139 | CLA | C16-C17-C18-C19 |
| 21 | A | 1140 | CLA | C16-C17-C18-C20 |
| 21 | B | 1203 | CLA | C16-C17-C18-C20 |
| 21 | B | 1228 | CLA | C16-C17-C18-C20 |
| 21 | J | 1302 | CLA | C16-C17-C18-C19 |
| 21 | J | 1303 | CLA | C16-C17-C18-C19 |
| 21 | a | 1801 | CLA | C6-C7-C8-C10 |
| 21 | a | 1012 | CLA | C16-C17-C18-C20 |
| 21 | b | 1216 | CLA | C16-C17-C18-C20 |
| 21 | b | 1218 | CLA | C16-C17-C18-C20 |
| 21 | b | 1231 | CLA | C16-C17-C18-C20 |
| 21 | 1 | 1013 | CLA | C16-C17-C18-C20 |
| 21 | 1 | 1122 | CLA | C11-C12-C13-C14 |
| 21 | 1 | 1127 | CLA | C16-C17-C18-C20 |
| 21 | 1 | 1133 | CLA | C16-C17-C18-C19 |
| 21 | 1 | 1140 | CLA | C16-C17-C18-C19 |
| 21 | 2 | 1203 | CLA | C16-C17-C18-C20 |
| 21 | 2 | 1223 | CLA | C6-C7-C8-C10 |
| 21 | 2 | 1226 | CLA | C6-C7-C8-C10 |
| 21 | 1 | 1112 | CLA | CBA-CGA-O2A-C1 |
| 21 | 1 | 1137 | CLA | CBA-CGA-O2A-C1 |
| 25 | A | 5006 | LHG | C11-C10-C9-C8 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 25 | F | 5002 | LHG | C31-C32-C33-C34 |
| 25 | a | 5005 | LHG | C11-C10-C9-C8 |
| 25 | a | 5007 | LHG | C31-C32-C33-C34 |
| 25 | l | 5002 | LHG | C13-C14-C15-C16 |
| 25 | 1 | 5005 | LHG | C28-C29-C30-C31 |
| 25 | 1 | 5003 | LHG | C9-C10-C11-C12 |
| 25 | 1 | 5003 | LHG | C13-C14-C15-C16 |
| 25 | 2 | 5004 | LHG | C13-C14-C15-C16 |
| 31 | B | 5008 | SQD | C31-C32-C33-C34 |
| 31 | f | 5001 | SQD | C24-C25-C26-C27 |
| 35 | L | 6001 | LMT | C3'-C4'-O1B-C1B |
| 21 | A | 1136 | CLA | O1D-CGD-O2D-CED |
| 21 | B | 1237 | CLA | O1D-CGD-O2D-CED |
| 21 | B | 1202 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1209 | CLA | O1D-CGD-O2D-CED |
| 25 | 1 | 5001 | LHG | O9-C7-O7-C5 |
| 31 | f | 5001 | SQD | O49-C7-O47-C45 |
| 21 | A | 1112 | CLA | C15-C16-C17-C18 |
| 21 | b | 1212 | CLA | C8-C10-C11-C12 |
| 21 | 1 | 1109 | CLA | C5-C6-C7-C8 |
| 31 | b | 5006 | SQD | C7-C8-C9-C10 |
| 25 | A | 5007 | LHG | C13-C14-C15-C16 |
| 25 | B | 5006 | LHG | C11-C12-C13-C14 |
| 25 | B | 5006 | LHG | C31-C32-C33-C34 |
| 25 | a | 5005 | LHG | C17-C18-C19-C20 |
| 25 | a | 5005 | LHG | C24-C25-C26-C27 |
| 25 | l | 5004 | LHG | C11-C12-C13-C14 |
| 26 | A | 5002 | LMG | C15-C16-C17-C18 |
| 26 | B | 5005 | LMG | C21-C22-C23-C24 |
| 31 | F | 5001 | SQD | C11-C12-C13-C14 |
| 21 | a | 1125 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1237 | CLA | O1D-CGD-O2D-CED |
| 25 | A | 5007 | LHG | C30-C31-C32-C33 |
| 25 | B | 5004 | LHG | C34-C35-C36-C37 |
| 25 | L | 5005 | LHG | C11-C12-C13-C14 |
| 25 | L | 5005 | LHG | C13-C14-C15-C16 |
| 25 | L | 5005 | LHG | C32-C33-C34-C35 |
| 25 | l | 5001 | LHG | C13-C14-C15-C16 |
| 25 | 1 | 5001 | LHG | C28-C29-C30-C31 |
| 26 | 1 | 5004 | LMG | C29-C30-C31-C32 |
| 21 | 2 | 1238 | CLA | O1D-CGD-O2D-CED |
| 25 | A | 5007 | LHG | C12-C13-C14-C15 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 25 | M | 5001 | LHG | C24-C25-C26-C27 |
| 25 | a | 5007 | LHG | C25-C26-C27-C28 |
| 25 | l | 5002 | LHG | C11-C12-C13-C14 |
| 21 | B | 1201 | CLA | C3-C5-C6-C7 |
| 21 | 1 | 1115 | CLA | C3-C5-C6-C7 |
| 25 | 2 | 5004 | LHG | C23-C24-C25-C26 |
| 25 | 0 | 5002 | LHG | C23-C24-C25-C26 |
| 21 | A | 1117 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1202 | CLA | O1D-CGD-O2D-CED |
| 21 | 6 | 1302 | CLA | O1D-CGD-O2D-CED |
| 24 | A | 4007 | BCR | C11-C10-C9-C8 |
| 24 | A | 4019 | BCR | C11-C10-C9-C8 |
| 24 | I | 4018 | BCR | C11-C10-C9-C8 |
| 24 | b | 4010 | BCR | C11-C10-C9-C8 |
| 24 | f | 4016 | BCR | C11-C10-C9-C8 |
| 24 | 1 | 4019 | BCR | C11-C10-C9-C8 |
| 24 | 2 | 4011 | BCR | C11-C10-C9-C8 |
| 24 | 6 | 4016 | BCR | C11-C10-C9-C8 |
| 26 | B | 5005 | LMG | C2-C1-O1-C7 |
| 21 | A | 1120 | CLA | CBA-CGA-O2A-C1 |
| 25 | A | 5005 | LHG | C16-C17-C18-C19 |
| 25 | A | 5007 | LHG | C34-C35-C36-C37 |
| 25 | F | 5002 | LHG | C34-C35-C36-C37 |
| 25 | a | 5003 | LHG | C17-C18-C19-C20 |
| 25 | 1 | 5005 | LHG | C13-C14-C15-C16 |
| 25 | 1 | 5003 | LHG | C30-C31-C32-C33 |
| 26 | A | 5002 | LMG | C30-C31-C32-C33 |
| 26 | A | 5008 | LMG | C14-C15-C16-C17 |
| 26 | b | 5007 | LMG | C22-C23-C24-C25 |
| 26 | 1 | 5002 | LMG | C14-C15-C16-C17 |
| 37 | L | 5004 | DGD | C3A-C4A-C5A-C6A |
| 37 | L | 5004 | DGD | C6A-C7A-C8A-C9A |
| 21 | B | 1202 | CLA | C13-C15-C16-C17 |
| 21 | a | 1132 | CLA | C5-C6-C7-C8 |
| 21 | b | 1235 | CLA | C13-C15-C16-C17 |
| 21 | A | 1134 | CLA | O1A-CGA-O2A-C1 |
| 21 | B | 1232 | CLA | O1A-CGA-O2A-C1 |
| 21 | j | 1302 | CLA | O1A-CGA-O2A-C1 |
| 25 | F | 5002 | LHG | O10-C23-O8-C6 |
| 21 | A | 1114 | CLA | C16-C17-C18-C20 |
| 21 | A | 1127 | CLA | C16-C17-C18-C19 |
| 21 | A | 1139 | CLA | C16-C17-C18-C20 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | B | 1208 | CLA | C16-C17-C18-C19 |
| 21 | B | 1215 | CLA | C16-C17-C18-C19 |
| 21 | b | 1211 | CLA | C16-C17-C18-C20 |
| 21 | b | 1212 | CLA | C16-C17-C18-C19 |
| 21 | L | 1501 | CLA | O1D-CGD-O2D-CED |
| 21 | B | 1229 | CLA | C4-C3-C5-C6 |
| 25 | a | 5001 | LHG | C13-C14-C15-C16 |
| 25 | a | 5005 | LHG | C11-C12-C13-C14 |
| 25 | a | 5005 | LHG | C13-C14-C15-C16 |
| 25 | 1 | 5007 | LHG | C32-C33-C34-C35 |
| 25 | 1 | 5003 | LHG | C27-C28-C29-C30 |
| 26 | 0 | 5001 | LMG | C29-C30-C31-C32 |
| 31 | L | 5001 | SQD | C16-C17-C18-C19 |
| 31 | L | 5002 | SQD | C10-C11-C12-C13 |
| 31 | b | 5006 | SQD | C28-C29-C30-C31 |
| 35 | 1 | 6001 | LMT | C4-C5-C6-C7 |
| 21 | B | 1225 | CLA | C2-C3-C5-C6 |
| 21 | A | 1110 | CLA | C14-C13-C15-C16 |
| 21 | A | 1125 | CLA | C6-C7-C8-C9 |
| 21 | A | 1126 | CLA | C6-C7-C8-C9 |
| 21 | B | 1230 | CLA | C11-C10-C8-C9 |
| 21 | K | 1402 | CLA | C11-C10-C8-C9 |
| 21 | L | 1503 | CLA | C11-C10-C8-C9 |
| 21 | a | 1125 | CLA | C11-C12-C13-C14 |
| 21 | a | 1012 | CLA | C6-C7-C8-C9 |
| 21 | b | 1212 | CLA | C14-C13-C15-C16 |
| 21 | b | 1215 | CLA | C11-C10-C8-C9 |
| 21 | b | 1218 | CLA | C11-C10-C8-C9 |
| 21 | j | 1302 | CLA | C11-C10-C8-C9 |
| 21 | 1 | 1118 | CLA | C11-C10-C8-C9 |
| 21 | 1 | 1134 | CLA | C14-C13-C15-C16 |
| 21 | 1 | 1012 | CLA | C6-C7-C8-C9 |
| 21 | 2 | 1203 | CLA | C6-C7-C8-C9 |
| 22 | b | 2002 | PQN | C19-C18-C20-C21 |
| 22 | 2 | 2002 | PQN | C21-C22-C23-C24 |
| 21 | a | 1130 | CLA | O1D-CGD-O2D-CED |
| 21 | l | 1502 | CLA | O1D-CGD-O2D-CED |
| 25 | a | 5001 | LHG | C23-C24-C25-C26 |
| 25 | l | 5002 | LHG | C23-C24-C25-C26 |
| 25 | A | 5003 | LHG | C11-C12-C13-C14 |
| 25 | a | 5007 | LHG | C10-C11-C12-C13 |
| 25 | b | 5004 | LHG | C29-C30-C31-C32 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 25 | l | 5001 | LHG | C26-C27-C28-C29 |
| 25 | 1 | 5005 | LHG | C11-C12-C13-C14 |
| 25 | 0 | 5004 | LHG | C25-C26-C27-C28 |
| 26 | b | 5002 | LMG | C21-C22-C23-C24 |
| 26 | 2 | 5005 | LMG | C31-C32-C33-C34 |
| 31 | F | 5001 | SQD | C10-C11-C12-C13 |
| 21 | B | 1204 | CLA | C5-C6-C7-C8 |
| 21 | a | 1104 | CLA | C15-C16-C17-C18 |
| 21 | a | 1801 | CLA | C5-C6-C7-C8 |
| 21 | b | 1206 | CLA | C10-C11-C12-C13 |
| 21 | b | 1211 | CLA | C8-C10-C11-C12 |
| 21 | b | 1215 | CLA | C8-C10-C11-C12 |
| 21 | A | 1119 | CLA | C2A-CAA-CBA-CGA |
| 21 | A | 1125 | CLA | C2A-CAA-CBA-CGA |
| 21 | L | 1503 | CLA | C2A-CAA-CBA-CGA |
| 21 | a | 1106 | CLA | C2A-CAA-CBA-CGA |
| 21 | a | 1128 | CLA | C2A-CAA-CBA-CGA |
| 21 | a | 1136 | CLA | C2A-CAA-CBA-CGA |
| 21 | b | 1239 | CLA | C2A-CAA-CBA-CGA |
| 21 | 2 | 1236 | CLA | C2A-CAA-CBA-CGA |
| 21 | A | 1136 | CLA | O1A-CGA-O2A-C1 |
| 21 | B | 1201 | CLA | O1A-CGA-O2A-C1 |
| 21 | B | 1216 | CLA | O1A-CGA-O2A-C1 |
| 21 | a | 1109 | CLA | O1A-CGA-O2A-C1 |
| 21 | b | 1231 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1120 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1136 | CLA | O1A-CGA-O2A-C1 |
| 21 | 2 | 1208 | CLA | O1A-CGA-O2A-C1 |
| 21 | 2 | 1222 | CLA | O1A-CGA-O2A-C1 |
| 24 | A | 4003 | BCR | C11-C12-C13-C35 |
| 24 | A | 4008 | BCR | C37-C22-C23-C24 |
| 24 | A | 4019 | BCR | C36-C18-C19-C20 |
| 24 | A | 4012 | BCR | C37-C22-C23-C24 |
| 24 | B | 4010 | BCR | C37-C22-C23-C24 |
| 24 | K | 4001 | BCR | C11-C12-C13-C35 |
| 24 | L | 4019 | BCR | C37-C22-C23-C24 |
| 24 | a | 4002 | BCR | C36-C18-C19-C20 |
| 24 | a | 4003 | BCR | C11-C12-C13-C35 |
| 24 | a | 4003 | BCR | C37-C22-C23-C24 |
| 24 | a | 4012 | BCR | C11-C12-C13-C35 |
| 24 | b | 4005 | BCR | C37-C22-C23-C24 |
| 24 | j | 4013 | BCR | C37-C22-C23-C24 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 24 | l | 4019 | BCR | C37-C22-C23-C24 |
| 24 | l | 4007 | BCR | C36-C18-C19-C20 |
| 24 | l | 4019 | BCR | C37-C22-C23-C24 |
| 24 | 0 | 4022 | BCR | C11-C12-C13-C35 |
| 30 | b | 4011 | ECH | C11-C12-C13-C35 |
| 30 | i | 4020 | ECH | C7-C8-C9-C34 |
| 25 | A | 5001 | LHG | C26-C27-C28-C29 |
| 25 | a | 5001 | LHG | C12-C13-C14-C15 |
| 25 | l | 5001 | LHG | C34-C35-C36-C37 |
| 25 | l | 5003 | LHG | C13-C14-C15-C16 |
| 25 | 1 | 5003 | LHG | C16-C17-C18-C19 |
| 26 | A | 5008 | LMG | C13-C14-C15-C16 |
| 26 | B | 5005 | LMG | C15-C16-C17-C18 |
| 26 | a | 5004 | LMG | C21-C22-C23-C24 |
| 25 | A | 5005 | LHG | O1-C1-C2-C3 |
| 25 | B | 5004 | LHG | O1-C1-C2-C3 |
| 25 | M | 5001 | LHG | O1-C1-C2-C3 |
| 25 | b | 5004 | LHG | O1-C1-C2-C3 |
| 25 | l | 5004 | LHG | O1-C1-C2-C3 |
| 25 | 2 | 5004 | LHG | O1-C1-C2-C3 |
| 25 | 0 | 5004 | LHG | O1-C1-C2-C3 |
| 24 | A | 4003 | BCR | C11-C12-C13-C14 |
| 24 | A | 4008 | BCR | C21-C22-C23-C24 |
| 24 | A | 4019 | BCR | C17-C18-C19-C20 |
| 24 | B | 4010 | BCR | C21-C22-C23-C24 |
| 24 | J | 4013 | BCR | C7-C8-C9-C10 |
| 24 | K | 4001 | BCR | C11-C12-C13-C14 |
| 24 | L | 4019 | BCR | C21-C22-C23-C24 |
| 24 | a | 4001 | BCR | C21-C22-C23-C24 |
| 24 | a | 4003 | BCR | C11-C12-C13-C14 |
| 24 | a | 4003 | BCR | C21-C22-C23-C24 |
| 24 | a | 4012 | BCR | C11-C12-C13-C14 |
| 24 | b | 4005 | BCR | C21-C22-C23-C24 |
| 24 | j | 4013 | BCR | C21-C22-C23-C24 |
| 24 | l | 4019 | BCR | C21-C22-C23-C24 |
| 24 | 1 | 4003 | BCR | C11-C12-C13-C14 |
| 24 | 1 | 4003 | BCR | C21-C22-C23-C24 |
| 24 | 1 | 4019 | BCR | C21-C22-C23-C24 |
| 24 | 2 | 4004 | BCR | C21-C22-C23-C24 |
| 24 | 0 | 4022 | BCR | C11-C12-C13-C14 |
| 24 | 0 | 4022 | BCR | C21-C22-C23-C24 |
| 30 | b | 4011 | ECH | C11-C12-C13-C14 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 30 | b | 4006 | ECH | C21-C22-C23-C24 |
| 30 | i | 4020 | ECH | C21-C22-C23-C24 |
| 21 | A | 1133 | CLA | C3-C5-C6-C7 |
| 21 | 2 | 1229 | CLA | C3-C5-C6-C7 |
| 21 | A | 1114 | CLA | C15-C16-C17-C18 |
| 21 | B | 1217 | CLA | C5-C6-C7-C8 |
| 21 | 1 | 1115 | CLA | C8-C10-C11-C12 |
| 21 | 1 | 1140 | CLA | C13-C15-C16-C17 |
| 21 | 2 | 1205 | CLA | C10-C11-C12-C13 |
| 25 | a | 5003 | LHG | C13-C14-C15-C16 |
| 25 | l | 5004 | LHG | C13-C14-C15-C16 |
| 25 | 0 | 5004 | LHG | C11-C12-C13-C14 |
| 26 | 2 | 5005 | LMG | C13-C14-C15-C16 |
| 35 | F | 6001 | LMT | C2-C3-C4-C5 |
| 25 | A | 5006 | LHG | C23-C24-C25-C26 |
| 25 | 1 | 5003 | LHG | C7-C8-C9-C10 |
| 26 | K | 5009 | LMG | C28-C29-C30-C31 |
| 21 | B | 1230 | CLA | O1D-CGD-O2D-CED |
| 21 | b | 1209 | CLA | O1D-CGD-O2D-CED |
| 25 | A | 5003 | LHG | C13-C14-C15-C16 |
| 25 | L | 5005 | LHG | C34-C35-C36-C37 |
| 25 | a | 5001 | LHG | C28-C29-C30-C31 |
| 25 | a | 5005 | LHG | C18-C19-C20-C21 |
| 25 | l | 5001 | LHG | C11-C12-C13-C14 |
| 25 | 0 | 5002 | LHG | C13-C14-C15-C16 |
| 25 | 0 | 5002 | LHG | C28-C29-C30-C31 |
| 25 | 0 | 5004 | LHG | C26-C27-C28-C29 |
| 31 | L | 5002 | SQD | C34-C35-C36-C37 |
| 21 | A | 1123 | CLA | O1A-CGA-O2A-C1 |
| 21 | A | 1110 | CLA | C16-C17-C18-C19 |
| 21 | A | 1120 | CLA | C16-C17-C18-C19 |
| 21 | A | 1125 | CLA | C16-C17-C18-C19 |
| 21 | B | 1203 | CLA | C16-C17-C18-C19 |
| 21 | B | 1209 | CLA | C16-C17-C18-C19 |
| 21 | a | 1117 | CLA | C16-C17-C18-C19 |
| 21 | a | 1117 | CLA | C16-C17-C18-C20 |
| 21 | a | 1140 | CLA | C16-C17-C18-C19 |
| 21 | a | 1140 | CLA | C16-C17-C18-C20 |
| 21 | a | 1012 | CLA | C16-C17-C18-C19 |
| 21 | b | 1212 | CLA | C16-C17-C18-C20 |
| 21 | 1 | 1011 | CLA | C16-C17-C18-C19 |
| 21 | 1 | 1011 | CLA | C16-C17-C18-C20 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | 1 | 1121 | CLA | C6-C7-C8-C10 |
| 21 | 1 | 1122 | CLA | C11-C12-C13-C15 |
| 21 | 1 | 1134 | CLA | C16-C17-C18-C20 |
| 21 | 2 | 1237 | CLA | C16-C17-C18-C20 |
| 21 | 2 | 1021 | CLA | C16-C17-C18-C19 |
| 21 | 2 | 1202 | CLA | C16-C17-C18-C19 |
| 21 | 2 | 1223 | CLA | C6-C7-C8-C9 |
| 31 | 0 | 5005 | SQD | O5-C1-O6-C44 |
| 21 | B | 1217 | CLA | C8-C10-C11-C12 |
| 21 | a | 1106 | CLA | C8-C10-C11-C12 |
| 21 | b | 1224 | CLA | C10-C11-C12-C13 |
| 21 | 2 | 1214 | CLA | C5-C6-C7-C8 |
| 21 | 0 | 1503 | CLA | C8-C10-C11-C12 |
| 21 | B | 1207 | CLA | O1D-CGD-O2D-CED |
| 25 | M | 5001 | LHG | C29-C30-C31-C32 |
| 25 | M | 5001 | LHG | C31-C32-C33-C34 |
| 25 | b | 5004 | LHG | C30-C31-C32-C33 |
| 25 | l | 5001 | LHG | C11-C10-C9-C8 |
| 26 | B | 5005 | LMG | C39-C40-C41-C42 |
| 31 | F | 5001 | SQD | C14-C15-C16-C17 |
| 35 | L | 6001 | LMT | C6-C7-C8-C9 |
| 35 | L | 6001 | LMT | C1-C2-C3-C4 |
| 35 | F | 6001 | LMT | O5'-C5'-C6'-O6' |
| 21 | A | 1133 | CLA | O1D-CGD-O2D-CED |
| 21 | b | 1212 | CLA | O1D-CGD-O2D-CED |
| 25 | A | 5003 | LHG | C9-C10-C11-C12 |
| 25 | F | 5002 | LHG | C11-C12-C13-C14 |
| 25 | l | 5003 | LHG | C11-C12-C13-C14 |
| 25 | 0 | 5004 | LHG | C11-C10-C9-C8 |
| 26 | A | 5002 | LMG | C37-C38-C39-C40 |
| 25 | 0 | 5004 | LHG | C7-C8-C9-C10 |
| 21 | 1 | 1116 | CLA | C13-C15-C16-C17 |
| 21 | 1 | 1012 | CLA | C8-C10-C11-C12 |
| 21 | 2 | 1237 | CLA | C13-C15-C16-C17 |
| 21 | B | 1210 | CLA | O1A-CGA-O2A-C1 |
| 25 | A | 5001 | LHG | C13-C14-C15-C16 |
| 25 | F | 5002 | LHG | C13-C14-C15-C16 |
| 25 | L | 5005 | LHG | C27-C28-C29-C30 |
| 25 | l | 5001 | LHG | C30-C31-C32-C33 |
| 25 | 1 | 5001 | LHG | C11-C12-C13-C14 |
| 25 | 0 | 5002 | LHG | C34-C35-C36-C37 |
| 31 | L | 5001 | SQD | C13-C14-C15-C16 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 31 | b | 5006 | SQD | C26-C27-C28-C29 |
| 21 | A | 1122 | CLA | C3-C5-C6-C7 |
| 21 | b | 1228 | CLA | C3-C5-C6-C7 |
| 21 | b | 1210 | CLA | CBA-CGA-O2A-C1 |
| 25 | A | 5003 | LHG | C34-C35-C36-C37 |
| 25 | A | 5006 | LHG | C16-C17-C18-C19 |
| 21 | A | 1111 | CLA | O1D-CGD-O2D-CED |
| 21 | b | 1210 | CLA | O1D-CGD-O2D-CED |
| 21 | A | 1104 | CLA | C3A-C2A-CAA-CBA |
| 21 | A | 1107 | CLA | C3A-C2A-CAA-CBA |
| 21 | A | 1121 | CLA | C3A-C2A-CAA-CBA |
| 21 | A | 1125 | CLA | C3A-C2A-CAA-CBA |
| 21 | A | 1134 | CLA | C3A-C2A-CAA-CBA |
| 21 | A | 1135 | CLA | C3A-C2A-CAA-CBA |
| 21 | B | 1210 | CLA | C3A-C2A-CAA-CBA |
| 21 | B | 1213 | CLA | C3A-C2A-CAA-CBA |
| 21 | B | 1234 | CLA | C3A-C2A-CAA-CBA |
| 21 | L | 1503 | CLA | C3A-C2A-CAA-CBA |
| 21 | a | 1104 | CLA | C3A-C2A-CAA-CBA |
| 21 | a | 1107 | CLA | C3A-C2A-CAA-CBA |
| 21 | a | 1108 | CLA | C3A-C2A-CAA-CBA |
| 21 | a | 1113 | CLA | C3A-C2A-CAA-CBA |
| 21 | a | 1121 | CLA | C3A-C2A-CAA-CBA |
| 21 | a | 1122 | CLA | C3A-C2A-CAA-CBA |
| 21 | a | 1134 | CLA | C3A-C2A-CAA-CBA |
| 21 | a | 1135 | CLA | C3A-C2A-CAA-CBA |
| 21 | b | 1022 | CLA | C3A-C2A-CAA-CBA |
| 21 | b | 1210 | CLA | C3A-C2A-CAA-CBA |
| 21 | b | 1213 | CLA | C3A-C2A-CAA-CBA |
| 21 | b | 1228 | CLA | C3A-C2A-CAA-CBA |
| 21 | b | 1234 | CLA | C3A-C2A-CAA-CBA |
| 21 | 1 | 1011 | CLA | C3A-C2A-CAA-CBA |
| 21 | 1 | 1104 | CLA | C3A-C2A-CAA-CBA |
| 21 | 1 | 1107 | CLA | C3A-C2A-CAA-CBA |
| 21 | 1 | 1108 | CLA | C3A-C2A-CAA-CBA |
| 21 | 1 | 1135 | CLA | C3A-C2A-CAA-CBA |
| 21 | 2 | 1219 | CLA | C3A-C2A-CAA-CBA |
| 21 | B | 1021 | CLA | C5-C6-C7-C8 |
| 21 | B | 1206 | CLA | C13-C15-C16-C17 |
| 21 | a | 1136 | CLA | C5-C6-C7-C8 |
| 21 | b | 1222 | CLA | C13-C15-C16-C17 |
| 21 | 1 | 1120 | CLA | C15-C16-C17-C18 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 24 | a | 4002 | BCR | C13-C14-C15-C16 |
| 24 | 1 | 4001 | BCR | C13-C14-C15-C16 |
| 24 | 1 | 4003 | BCR | C13-C14-C15-C16 |
| 35 | L | 6001 | LMT | C2-C1-O1'-C1' |
| 25 | A | 5005 | LHG | C31-C32-C33-C34 |
| 25 | M | 5001 | LHG | C30-C31-C32-C33 |
| 25 | a | 5007 | LHG | C11-C12-C13-C14 |
| 25 | l | 5003 | LHG | C28-C29-C30-C31 |
| 25 | 1 | 5003 | LHG | C10-C11-C12-C13 |
| 26 | 0 | 5001 | LMG | C21-C22-C23-C24 |
| 21 | b | 1234 | CLA | O1D-CGD-O2D-CED |
| 21 | B | 1221 | CLA | O1A-CGA-O2A-C1 |
| 21 | b | 1226 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1133 | CLA | O1A-CGA-O2A-C1 |
| 21 | A | 1102 | CLA | C16-C17-C18-C20 |
| 21 | A | 1103 | CLA | C16-C17-C18-C19 |
| 21 | A | 1107 | CLA | C16-C17-C18-C20 |
| 21 | A | 1114 | CLA | C16-C17-C18-C19 |
| 21 | A | 1116 | CLA | C16-C17-C18-C20 |
| 21 | A | 1135 | CLA | C16-C17-C18-C19 |
| 21 | A | 1140 | CLA | C16-C17-C18-C19 |
| 21 | B | 1209 | CLA | C16-C17-C18-C20 |
| 21 | B | 1228 | CLA | C16-C17-C18-C19 |
| 21 | J | 1303 | CLA | C16-C17-C18-C20 |
| 21 | a | 1801 | CLA | C6-C7-C8-C9 |
| 21 | a | 1132 | CLA | C16-C17-C18-C19 |
| 21 | a | 1132 | CLA | C16-C17-C18-C20 |
| 21 | b | 1216 | CLA | C16-C17-C18-C19 |
| 21 | b | 1218 | CLA | C16-C17-C18-C19 |
| 21 | 1 | 1013 | CLA | C16-C17-C18-C19 |
| 21 | 1 | 1127 | CLA | C16-C17-C18-C19 |
| 21 | 1 | 1140 | CLA | C16-C17-C18-C20 |
| 21 | 2 | 1226 | CLA | C6-C7-C8-C9 |
| 25 | A | 5003 | LHG | C28-C29-C30-C31 |
| 25 | L | 5005 | LHG | C33-C34-C35-C36 |
| 25 | l | 5002 | LHG | C26-C27-C28-C29 |
| 25 | 0 | 5004 | LHG | C29-C30-C31-C32 |
| 31 | L | 5002 | SQD | C30-C31-C32-C33 |
| 21 | A | 1110 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1108 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1129 | CLA | O1D-CGD-O2D-CED |
| 25 | A | 5003 | LHG | C33-C34-C35-C36 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 25 | A | 5006 | LHG | C9-C10-C11-C12 |
| 25 | 1 | 5005 | LHG | C12-C13-C14-C15 |
| 26 | 0 | 5001 | LMG | C22-C23-C24-C25 |
| 21 | 1 | 1117 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1013 | CLA | C3-C5-C6-C7 |
| 21 | a | 1135 | CLA | C3-C5-C6-C7 |
| 21 | a | 1101 | CLA | C3-C5-C6-C7 |
| 21 | b | 1204 | CLA | C3-C5-C6-C7 |
| 21 | l | 1501 | CLA | C3-C5-C6-C7 |
| 25 | A | 5001 | LHG | C28-C29-C30-C31 |
| 25 | 1 | 5007 | LHG | C16-C17-C18-C19 |
| 21 | a | 1118 | CLA | O1A-CGA-O2A-C1 |
| 21 | a | 1135 | CLA | O1A-CGA-O2A-C1 |
| 21 | b | 1236 | CLA | C5-C6-C7-C8 |
| 21 | A | 1117 | CLA | C4-C3-C5-C6 |
| 21 | B | 1240 | CLA | C4-C3-C5-C6 |
| 21 | a | 1132 | CLA | C4-C3-C5-C6 |
| 21 | 1 | 1123 | CLA | C4-C3-C5-C6 |
| 21 | 1 | 1119 | CLA | CBA-CGA-O2A-C1 |
| 21 | 1 | 1122 | CLA | CBA-CGA-O2A-C1 |
| 21 | 2 | 1230 | CLA | CBA-CGA-O2A-C1 |
| 21 | A | 1117 | CLA | C2-C3-C5-C6 |
| 21 | B | 1212 | CLA | C2-C3-C5-C6 |
| 21 | B | 1240 | CLA | C2-C3-C5-C6 |
| 21 | a | 1132 | CLA | C2-C3-C5-C6 |
| 21 | l | 1502 | CLA | C2-C3-C5-C6 |
| 21 | 1 | 1123 | CLA | C2-C3-C5-C6 |
| 25 | A | 5001 | LHG | C8-C7-O7-C5 |
| 26 | 1 | 5004 | LMG | C11-C10-O7-C8 |
| 31 | 0 | 5005 | SQD | C8-C7-O47-C45 |
| 26 | 1 | 5004 | LMG | C21-C22-C23-C24 |
| 25 | A | 5005 | LHG | O1-C1-C2-O2 |
| 25 | A | 5007 | LHG | O1-C1-C2-O2 |
| 25 | A | 5006 | LHG | O1-C1-C2-O2 |
| 25 | B | 5004 | LHG | O1-C1-C2-O2 |
| 25 | F | 5002 | LHG | O1-C1-C2-O2 |
| 25 | M | 5001 | LHG | O1-C1-C2-O2 |
| 25 | a | 5001 | LHG | O1-C1-C2-O2 |
| 25 | b | 5004 | LHG | O1-C1-C2-O2 |
| 25 | l | 5003 | LHG | O1-C1-C2-O2 |
| 25 | 1 | 5005 | LHG | O1-C1-C2-O2 |
| 25 | 1 | 5001 | LHG | O1-C1-C2-O2 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 25 | 1 | 5003 | LHG | O1-C1-C2-O2 |
| 25 | 2 | 5004 | LHG | O1-C1-C2-O2 |
| 25 | 0 | 5004 | LHG | O1-C1-C2-O2 |
| 25 | M | 5001 | LHG | C11-C10-C9-C8 |
| 25 | M | 5001 | LHG | C25-C26-C27-C28 |
| 25 | a | 5003 | LHG | C11-C12-C13-C14 |
| 25 | l | 5003 | LHG | C11-C10-C9-C8 |
| 25 | l | 5002 | LHG | C25-C26-C27-C28 |
| 25 | 0 | 5002 | LHG | C11-C12-C13-C14 |
| 26 | a | 5002 | LMG | C39-C40-C41-C42 |
| 21 | a | 1102 | CLA | O1A-CGA-O2A-C1 |
| 21 | A | 1127 | CLA | C16-C17-C18-C20 |
| 21 | 2 | 1237 | CLA | C16-C17-C18-C19 |
| 31 | L | 5001 | SQD | C10-C11-C12-C13 |
| 31 | b | 5006 | SQD | C12-C13-C14-C15 |
| 25 | M | 5001 | LHG | O2-C2-C3-O3 |
| 21 | a | 1122 | CLA | C5-C6-C7-C8 |
| 25 | M | 5001 | LHG | C11-C12-C13-C14 |
| 25 | a | 5003 | LHG | C10-C11-C12-C13 |
| 25 | b | 5004 | LHG | C11-C12-C13-C14 |
| 37 | L | 5004 | DGD | CCA-CDA-CEA-CFA |
| 21 | A | 1120 | CLA | O1A-CGA-O2A-C1 |
| 21 | A | 1137 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1112 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1137 | CLA | O1A-CGA-O2A-C1 |
| 21 | 2 | 1216 | CLA | O1A-CGA-O2A-C1 |
| 21 | B | 1237 | CLA | C5-C6-C7-C8 |
| 21 | a | 1103 | CLA | C10-C11-C12-C13 |
| 25 | M | 5001 | LHG | C1-C2-C3-O3 |
| 25 | A | 5007 | LHG | C11-C12-C13-C14 |
| 25 | M | 5001 | LHG | C13-C14-C15-C16 |
| 25 | a | 5003 | LHG | C34-C35-C36-C37 |
| 25 | b | 5004 | LHG | C10-C11-C12-C13 |
| 26 | B | 5005 | LMG | C11-C12-C13-C14 |
| 26 | K | 5009 | LMG | C40-C41-C42-C43 |
| 26 | 1 | 5002 | LMG | C36-C37-C38-C39 |
| 31 | b | 5006 | SQD | C16-C17-C18-C19 |
| 26 | 1 | 5004 | LMG | O9-C10-O7-C8 |
| 31 | 0 | 5005 | SQD | O49-C7-O47-C45 |
| 21 | A | 1013 | CLA | C2-C1-O2A-CGA |
| 21 | A | 1118 | CLA | C2-C1-O2A-CGA |
| 21 | A | 1125 | CLA | C2-C1-O2A-CGA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | B | 1023 | CLA | C2-C1-O2A-CGA |
| 21 | B | 1216 | CLA | C2-C1-O2A-CGA |
| 21 | B | 1218 | CLA | C2-C1-O2A-CGA |
| 21 | B | 1220 | CLA | C2-C1-O2A-CGA |
| 21 | B | 1230 | CLA | C2-C1-O2A-CGA |
| 21 | a | 1109 | CLA | C2-C1-O2A-CGA |
| 21 | a | 1122 | CLA | C2-C1-O2A-CGA |
| 21 | a | 1127 | CLA | C2-C1-O2A-CGA |
| 21 | a | 1137 | CLA | C2-C1-O2A-CGA |
| 21 | a | 1101 | CLA | C2-C1-O2A-CGA |
| 21 | b | 1235 | CLA | C2-C1-O2A-CGA |
| 21 | b | 1236 | CLA | C2-C1-O2A-CGA |
| 21 | k | 1401 | CLA | C2-C1-O2A-CGA |
| 21 | 1 | 1105 | CLA | C2-C1-O2A-CGA |
| 21 | 1 | 1107 | CLA | C2-C1-O2A-CGA |
| 21 | 2 | 1236 | CLA | C2-C1-O2A-CGA |
| 21 | 0 | 1503 | CLA | C2-C1-O2A-CGA |
| 25 | A | 5001 | LHG | C24-C25-C26-C27 |
| 25 | a | 5001 | LHG | C9-C10-C11-C12 |
| 25 | a | 5007 | LHG | C28-C29-C30-C31 |
| 25 | l | 5003 | LHG | C10-C11-C12-C13 |
| 26 | A | 5004 | LMG | O6-C5-C6-O5 |
| 21 | A | 1119 | CLA | C13-C15-C16-C17 |
| 21 | A | 1122 | CLA | C8-C10-C11-C12 |
| 21 | A | 1136 | CLA | C8-C10-C11-C12 |
| 21 | B | 1231 | CLA | C10-C11-C12-C13 |
| 21 | a | 1103 | CLA | C15-C16-C17-C18 |
| 21 | a | 1118 | CLA | C8-C10-C11-C12 |
| 21 | a | 1135 | CLA | C5-C6-C7-C8 |
| 21 | b | 1209 | CLA | C13-C15-C16-C17 |
| 21 | 1 | 1134 | CLA | C10-C11-C12-C13 |
| 21 | 2 | 1204 | CLA | C5-C6-C7-C8 |
| 34 | j | 4015 | ZEX | C21-C26-C27-C28 |
| 21 | b | 1210 | CLA | O1A-CGA-O2A-C1 |
| 25 | A | 5005 | LHG | C11-C12-C13-C14 |
| 25 | l | 5003 | LHG | C34-C35-C36-C37 |
| 25 | 1 | 5003 | LHG | C11-C12-C13-C14 |
| 25 | 2 | 5004 | LHG | C11-C10-C9-C8 |
| 26 | B | 5002 | LMG | C32-C33-C34-C35 |
| 31 | B | 5008 | SQD | C30-C31-C32-C33 |
| 31 | L | 5002 | SQD | C11-C12-C13-C14 |
| 21 | B | 1204 | CLA | C16-C17-C18-C20 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | J | 1302 | CLA | C16-C17-C18-C20 |
| 21 | 1 | 1121 | CLA | C6-C7-C8-C9 |
| 25 | 1 | 5001 | LHG | C23-C24-C25-C26 |
| 21 | A | 1135 | CLA | C3-C5-C6-C7 |
| 24 | A | 4002 | BCR | C5-C6-C7-C8 |
| 24 | A | 4003 | BCR | C5-C6-C7-C8 |
| 24 | A | 4008 | BCR | C23-C24-C25-C30 |
| 24 | A | 4012 | BCR | C1-C6-C7-C8 |
| 24 | A | 4012 | BCR | C23-C24-C25-C26 |
| 24 | A | 4012 | BCR | C23-C24-C25-C30 |
| 24 | B | 4005 | BCR | C1-C6-C7-C8 |
| 24 | B | 4005 | BCR | C5-C6-C7-C8 |
| 24 | B | 4010 | BCR | C23-C24-C25-C26 |
| 24 | B | 4010 | BCR | C23-C24-C25-C30 |
| 24 | J | 4013 | BCR | C5-C6-C7-C8 |
| 24 | K | 4001 | BCR | C5-C6-C7-C8 |
| 24 | L | 4019 | BCR | C23-C24-C25-C26 |
| 24 | L | 4019 | BCR | C23-C24-C25-C30 |
| 24 | L | 4022 | BCR | C5-C6-C7-C8 |
| 24 | a | 4001 | BCR | C23-C24-C25-C26 |
| 24 | a | 4007 | BCR | C23-C24-C25-C26 |
| 24 | a | 4007 | BCR | C23-C24-C25-C30 |
| 24 | a | 4012 | BCR | C5-C6-C7-C8 |
| 24 | b | 4005 | BCR | C5-C6-C7-C8 |
| 24 | k | 4001 | BCR | C23-C24-C25-C26 |
| 24 | k | 4001 | BCR | C23-C24-C25-C30 |
| 24 | l | 4019 | BCR | C23-C24-C25-C30 |
| 24 | l | 4022 | BCR | C1-C6-C7-C8 |
| 24 | 1 | 4002 | BCR | C1-C6-C7-C8 |
| 24 | 1 | 4002 | BCR | C5-C6-C7-C8 |
| 24 | 1 | 4002 | BCR | C23-C24-C25-C26 |
| 24 | 1 | 4002 | BCR | C23-C24-C25-C30 |
| 24 | 1 | 4003 | BCR | C5-C6-C7-C8 |
| 24 | 1 | 4007 | BCR | C23-C24-C25-C26 |
| 24 | 1 | 4019 | BCR | C1-C6-C7-C8 |
| 24 | 1 | 4012 | BCR | C1-C6-C7-C8 |
| 24 | 1 | 4012 | BCR | C5-C6-C7-C8 |
| 24 | 2 | 4011 | BCR | C23-C24-C25-C26 |
| 24 | 2 | 4011 | BCR | C23-C24-C25-C30 |
| 24 | 2 | 4005 | BCR | C1-C6-C7-C8 |
| 24 | 2 | 4005 | BCR | C5-C6-C7-C8 |
| 24 | 2 | 4018 | BCR | C5-C6-C7-C8 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 24 | 0 | 4019 | BCR | C23-C24-C25-C30 |
| 24 | 0 | 4022 | BCR | C1-C6-C7-C8 |
| 24 | 0 | 4022 | BCR | C5-C6-C7-C8 |
| 28 | B | 4011 | 45D | C03-C07-C19-C23 |
| 28 | B | 4011 | 45D | C15-C07-C19-C23 |
| 30 | B | 4006 | ECH | C23-C24-C25-C26 |
| 30 | M | 4021 | ECH | C5-C6-C7-C8 |
| 30 | b | 4011 | ECH | C5-C6-C7-C8 |
| 30 | b | 4011 | ECH | C23-C24-C25-C26 |
| 30 | b | 4006 | ECH | C5-C6-C7-C8 |
| 30 | m | 4021 | ECH | C5-C6-C7-C8 |
| 30 | m | 4021 | ECH | C23-C24-C25-C30 |
| 36 | I | 4020 | EQ3 | C1-C6-C7-C8 |
| 25 | A | 5005 | LHG | C34-C35-C36-C37 |
| 25 | 1 | 5003 | LHG | C25-C26-C27-C28 |
| 25 | 0 | 5004 | LHG | C33-C34-C35-C36 |
| 21 | K | 1401 | CLA | CBA-CGA-O2A-C1 |
| 21 | K | 1402 | CLA | CBA-CGA-O2A-C1 |
| 21 | b | 1222 | CLA | CBA-CGA-O2A-C1 |
| 21 | A | 1127 | CLA | C15-C16-C17-C18 |
| 21 | B | 1205 | CLA | C13-C15-C16-C17 |
| 21 | B | 1209 | CLA | C5-C6-C7-C8 |
| 21 | a | 1104 | CLA | C8-C10-C11-C12 |
| 21 | a | 1106 | CLA | C15-C16-C17-C18 |
| 21 | b | 1212 | CLA | C15-C16-C17-C18 |
| 21 | b | 1236 | CLA | C15-C16-C17-C18 |
| 21 | 1 | 1128 | CLA | C5-C6-C7-C8 |
| 21 | 2 | 1201 | CLA | C8-C10-C11-C12 |
| 21 | 2 | 1205 | CLA | C5-C6-C7-C8 |
| 21 | 2 | 1225 | CLA | C15-C16-C17-C18 |
| 21 | 2 | 1238 | CLA | C13-C15-C16-C17 |
| 21 | 0 | 1501 | CLA | C10-C11-C12-C13 |
| 25 | a | 5001 | LHG | C8-C7-O7-C5 |
| 25 | 0 | 5002 | LHG | C8-C7-O7-C5 |
| 26 | K | 5009 | LMG | C33-C34-C35-C36 |
| 21 | a | 1110 | CLA | C11-C12-C13-C14 |
| 25 | A | 5006 | LHG | C35-C36-C37-C38 |
| 25 | B | 5004 | LHG | C28-C29-C30-C31 |
| 21 | B | 1239 | CLA | C8-C10-C11-C12 |
| 21 | a | 1109 | CLA | C15-C16-C17-C18 |
| 21 | a | 1118 | CLA | C10-C11-C12-C13 |
| 21 | 1 | 1119 | CLA | C10-C11-C12-C13 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | b | 1021 | CLA | O1D-CGD-O2D-CED |
| 31 | B | 5008 | SQD | C12-C13-C14-C15 |
| 21 | A | 1139 | CLA | C4-C3-C5-C6 |
| 21 | l | 1502 | CLA | C4-C3-C5-C6 |
| 21 | 1 | 1127 | CLA | O1D-CGD-O2D-CED |
| 21 | A | 1102 | CLA | C6-C7-C8-C10 |
| 21 | A | 1110 | CLA | C12-C13-C15-C16 |
| 21 | A | 1112 | CLA | C6-C7-C8-C10 |
| 21 | A | 1119 | CLA | C12-C13-C15-C16 |
| 21 | A | 1120 | CLA | C12-C13-C15-C16 |
| 21 | A | 1121 | CLA | C12-C13-C15-C16 |
| 21 | A | 1127 | CLA | C11-C12-C13-C15 |
| 21 | A | 1134 | CLA | C11-C10-C8-C7 |
| 21 | A | 1137 | CLA | C11-C12-C13-C15 |
| 21 | B | 1201 | CLA | C6-C7-C8-C10 |
| 21 | B | 1206 | CLA | C6-C7-C8-C10 |
| 21 | B | 1206 | CLA | C12-C13-C15-C16 |
| 21 | B | 1210 | CLA | C2-C3-C5-C6 |
| 21 | B | 1210 | CLA | C12-C13-C15-C16 |
| 21 | B | 1211 | CLA | C6-C7-C8-C10 |
| 21 | B | 1211 | CLA | C12-C13-C15-C16 |
| 21 | B | 1218 | CLA | C6-C7-C8-C10 |
| 21 | B | 1227 | CLA | C2-C3-C5-C6 |
| 21 | B | 1229 | CLA | C2-C3-C5-C6 |
| 21 | F | 1301 | CLA | C11-C12-C13-C15 |
| 21 | a | 1118 | CLA | C12-C13-C15-C16 |
| 21 | a | 1123 | CLA | C6-C7-C8-C10 |
| 21 | a | 1123 | CLA | C11-C10-C8-C7 |
| 21 | a | 1131 | CLA | C6-C7-C8-C10 |
| 21 | a | 1133 | CLA | C11-C12-C13-C15 |
| 21 | a | 1132 | CLA | C12-C13-C15-C16 |
| 21 | b | 1023 | CLA | C11-C10-C8-C7 |
| 21 | b | 1204 | CLA | C11-C10-C8-C7 |
| 21 | b | 1209 | CLA | C11-C12-C13-C15 |
| 21 | b | 1212 | CLA | C12-C13-C15-C16 |
| 21 | b | 1218 | CLA | C11-C10-C8-C7 |
| 21 | b | 1219 | CLA | C11-C10-C8-C7 |
| 21 | b | 1222 | CLA | C11-C12-C13-C15 |
| 21 | b | 1231 | CLA | C2-C3-C5-C6 |
| 21 | b | 1231 | CLA | C11-C10-C8-C7 |
| 21 | b | 1231 | CLA | C11-C12-C13-C15 |
| 21 | b | 1232 | CLA | C6-C7-C8-C10 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | 1 | 1122 | CLA | C6-C7-C8-C10 |
| 21 | 1 | 1124 | CLA | C6-C7-C8-C10 |
| 21 | 1 | 1136 | CLA | C2-C3-C5-C6 |
| 21 | 2 | 1203 | CLA | C6-C7-C8-C10 |
| 21 | 2 | 1203 | CLA | C11-C10-C8-C7 |
| 21 | 2 | 1205 | CLA | C6-C7-C8-C10 |
| 21 | 2 | 1206 | CLA | C11-C10-C8-C7 |
| 22 | A | 2001 | PQN | C17-C18-C20-C21 |
| 22 | b | 2002 | PQN | C17-C18-C20-C21 |
| 22 | b | 2002 | PQN | C21-C22-C23-C25 |
| 22 | 2 | 2002 | PQN | C21-C22-C23-C25 |
| 21 | B | 1231 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1119 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1122 | CLA | O1A-CGA-O2A-C1 |
| 21 | 2 | 1230 | CLA | O1A-CGA-O2A-C1 |
| 21 | B | 1203 | CLA | C5-C6-C7-C8 |
| 21 | B | 1213 | CLA | C5-C6-C7-C8 |
| 21 | a | 1012 | CLA | C5-C6-C7-C8 |
| 21 | 1 | 1103 | CLA | C8-C10-C11-C12 |
| 21 | 1 | 1104 | CLA | C5-C6-C7-C8 |
| 21 | 1 | 1119 | CLA | C13-C15-C16-C17 |
| 24 | B | 4017 | BCR | C15-C16-C17-C18 |
| 24 | a | 4012 | BCR | C19-C20-C21-C22 |
| 24 | 1 | 4002 | BCR | C19-C20-C21-C22 |
| 24 | 1 | 4019 | BCR | C13-C14-C15-C16 |
| 28 | h | 4020 | 45D | C25-C29-C31-C33 |
| 21 | B | 1215 | CLA | C16-C17-C18-C20 |
| 21 | 2 | 1202 | CLA | C16-C17-C18-C20 |
| 21 | A | 1129 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1102 | CLA | O1D-CGD-O2D-CED |
| 25 | 0 | 5004 | LHG | O9-C7-O7-C5 |
| 25 | L | 5005 | LHG | C7-C8-C9-C10 |
| 26 | b | 5005 | LMG | C28-C29-C30-C31 |
| 21 | A | 1011 | CLA | CBA-CGA-O2A-C1 |
| 21 | A | 1106 | CLA | CBA-CGA-O2A-C1 |
| 21 | A | 1116 | CLA | CBA-CGA-O2A-C1 |
| 21 | B | 1231 | CLA | CBA-CGA-O2A-C1 |
| 21 | B | 1236 | CLA | CBA-CGA-O2A-C1 |
| 21 | F | 1301 | CLA | CBA-CGA-O2A-C1 |
| 21 | F | 1302 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1119 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1133 | CLA | CBA-CGA-O2A-C1 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | b | 1228 | CLA | CBA-CGA-O2A-C1 |
| 21 | b | 1236 | CLA | CBA-CGA-O2A-C1 |
| 21 | b | 1230 | CLA | CBA-CGA-O2A-C1 |
| 21 | 2 | 1021 | CLA | CBA-CGA-O2A-C1 |
| 21 | 2 | 1226 | CLA | CBA-CGA-O2A-C1 |
| 25 | B | 5006 | LHG | C35-C36-C37-C38 |
| 26 | a | 5002 | LMG | C11-C12-C13-C14 |
| 21 | A | 1106 | CLA | C2A-CAA-CBA-CGA |
| 21 | b | 1217 | CLA | C2A-CAA-CBA-CGA |
| 21 | 1 | 1110 | CLA | C2A-CAA-CBA-CGA |
| 21 | 1 | 1012 | CLA | C2A-CAA-CBA-CGA |
| 21 | 2 | 1204 | CLA | C2A-CAA-CBA-CGA |
| 21 | A | 1137 | CLA | C10-C11-C12-C13 |
| 21 | a | 1103 | CLA | C8-C10-C11-C12 |
| 21 | a | 1101 | CLA | C15-C16-C17-C18 |
| 35 | F | 6001 | LMT | C6-C7-C8-C9 |
| 25 | A | 5001 | LHG | C25-C26-C27-C28 |
| 25 | A | 5003 | LHG | C10-C11-C12-C13 |
| 25 | 1 | 5005 | LHG | C35-C36-C37-C38 |
| 25 | 0 | 5002 | LHG | C26-C27-C28-C29 |
| 31 | F | 5001 | SQD | C29-C30-C31-C32 |
| 21 | A | 1105 | CLA | C13-C15-C16-C17 |
| 21 | B | 1231 | CLA | C13-C15-C16-C17 |
| 21 | J | 1303 | CLA | C10-C11-C12-C13 |
| 21 | a | 1126 | CLA | C5-C6-C7-C8 |
| 21 | b | 1224 | CLA | C13-C15-C16-C17 |
| 21 | 1 | 1502 | CLA | C13-C15-C16-C17 |
| 21 | 1 | 1119 | CLA | C15-C16-C17-C18 |
| 21 | 2 | 1225 | CLA | C8-C10-C11-C12 |
| 25 | 1 | 5003 | LHG | C26-C27-C28-C29 |
| 25 | 2 | 5004 | LHG | C11-C12-C13-C14 |
| 25 | 0 | 5004 | LHG | C13-C14-C15-C16 |
| 25 | 0 | 5004 | LHG | C28-C29-C30-C31 |
| 35 | 0 | 6001 | LMT | C4-C5-C6-C7 |
| 21 | A | 1011 | CLA | C3-C5-C6-C7 |
| 21 | A | 1102 | CLA | C3-C5-C6-C7 |
| 25 | b | 5004 | LHG | C9-C10-C11-C12 |
| 26 | b | 5007 | LMG | C40-C41-C42-C43 |
| 31 | L | 5001 | SQD | C14-C15-C16-C17 |
| 21 | b | 1221 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1203 | CLA | CBA-CGA-O2A-C1 |
| 21 | B | 1221 | CLA | C16-C17-C18-C19 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | 1 | 1132 | CLA | C16-C17-C18-C20 |
| 21 | 0 | 1502 | CLA | C16-C17-C18-C19 |
| 21 | A | 1139 | CLA | C13-C15-C16-C17 |
| 21 | B | 1239 | CLA | C10-C11-C12-C13 |
| 21 | 1 | 1133 | CLA | C13-C15-C16-C17 |
| 25 | F | 5002 | LHG | C26-C27-C28-C29 |
| 25 | l | 5003 | LHG | C30-C31-C32-C33 |
| 25 | A | 5005 | LHG | C23-C24-C25-C26 |
| 26 | b | 5002 | LMG | C10-C11-C12-C13 |
| 25 | L | 5005 | LHG | C8-C7-O7-C5 |
| 25 | a | 5003 | LHG | C8-C7-O7-C5 |
| 25 | 0 | 5004 | LHG | C8-C7-O7-C5 |
| 26 | A | 5004 | LMG | C11-C10-O7-C8 |
| 31 | B | 5008 | SQD | C8-C7-O47-C45 |
| 31 | F | 5001 | SQD | C8-C7-O47-C45 |
| 25 | F | 5002 | LHG | O6-C4-C5-O7 |
| 25 | 1 | 5005 | LHG | O6-C4-C5-O7 |
| 24 | a | 4007 | BCR | C10-C11-C12-C13 |
| 21 | b | 1236 | CLA | O1D-CGD-O2D-CED |
| 25 | A | 5006 | LHG | C29-C30-C31-C32 |
| 25 | B | 5004 | LHG | C29-C30-C31-C32 |
| 25 | 1 | 5007 | LHG | C12-C13-C14-C15 |
| 26 | 2 | 5002 | LMG | C13-C14-C15-C16 |
| 35 | l | 6001 | LMT | O1'-C1-C2-C3 |
| 21 | B | 1225 | CLA | C15-C16-C17-C18 |
| 21 | b | 1211 | CLA | C13-C15-C16-C17 |
| 21 | b | 1214 | CLA | C15-C16-C17-C18 |
| 21 | a | 1123 | CLA | CBD-CGD-O2D-CED |
| 25 | F | 5002 | LHG | C30-C31-C32-C33 |
| 25 | 1 | 5007 | LHG | C34-C35-C36-C37 |
| 31 | L | 5001 | SQD | C15-C16-C17-C18 |
| 25 | A | 5001 | LHG | O9-C7-O7-C5 |
| 25 | L | 5005 | LHG | O9-C7-O7-C5 |
| 25 | 0 | 5002 | LHG | O9-C7-O7-C5 |
| 26 | A | 5004 | LMG | O9-C10-O7-C8 |
| 31 | F | 5001 | SQD | O49-C7-O47-C45 |
| 21 | a | 1139 | CLA | C3-C5-C6-C7 |
| 21 | b | 1216 | CLA | C3-C5-C6-C7 |
| 25 | A | 5001 | LHG | C35-C36-C37-C38 |
| 26 | 2 | 5002 | LMG | C36-C37-C38-C39 |
| 31 | L | 5001 | SQD | C29-C30-C31-C32 |
| 21 | a | 1135 | CLA | C15-C16-C17-C18 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 25 | l | 5001 | LHG | O7-C5-C6-O8 |
| 31 | L | 5001 | SQD | O6-C44-C45-O47 |
| 21 | B | 1214 | CLA | C16-C17-C18-C20 |
| 21 | B | 1229 | CLA | C16-C17-C18-C19 |
| 21 | 2 | 1224 | CLA | C6-C7-C8-C10 |
| 25 | A | 5003 | LHG | C25-C26-C27-C28 |
| 25 | L | 5005 | LHG | C28-C29-C30-C31 |
| 25 | b | 5004 | LHG | C28-C29-C30-C31 |
| 25 | l | 5002 | LHG | C34-C35-C36-C37 |
| 26 | b | 5002 | LMG | C32-C33-C34-C35 |
| 31 | 0 | 5005 | SQD | C24-C25-C26-C27 |
| 21 | A | 1140 | CLA | C13-C15-C16-C17 |
| 21 | B | 1201 | CLA | C15-C16-C17-C18 |
| 21 | a | 1110 | CLA | C8-C10-C11-C12 |
| 21 | b | 1204 | CLA | C5-C6-C7-C8 |
| 21 | B | 1210 | CLA | C4-C3-C5-C6 |
| 21 | A | 1139 | CLA | C2-C3-C5-C6 |
| 21 | a | 1101 | CLA | C2-C3-C5-C6 |
| 21 | f | 1302 | CLA | C2-C3-C5-C6 |
| 21 | l | 1503 | CLA | C2-C3-C5-C6 |
| 21 | 1 | 1139 | CLA | C2-C3-C5-C6 |
| 21 | 2 | 1208 | CLA | C2-C3-C5-C6 |
| 25 | 1 | 5005 | LHG | C31-C32-C33-C34 |
| 21 | A | 1104 | CLA | C11-C12-C13-C14 |
| 21 | A | 1112 | CLA | C6-C7-C8-C9 |
| 21 | A | 1113 | CLA | C6-C7-C8-C9 |
| 21 | A | 1119 | CLA | C11-C12-C13-C14 |
| 21 | A | 1119 | CLA | C14-C13-C15-C16 |
| 21 | A | 1120 | CLA | C6-C7-C8-C9 |
| 21 | A | 1122 | CLA | C6-C7-C8-C9 |
| 21 | A | 1124 | CLA | C14-C13-C15-C16 |
| 21 | A | 1127 | CLA | C11-C12-C13-C14 |
| 21 | A | 1128 | CLA | C6-C7-C8-C9 |
| 21 | A | 1131 | CLA | C14-C13-C15-C16 |
| 21 | A | 1134 | CLA | C11-C10-C8-C9 |
| 21 | A | 1136 | CLA | C14-C13-C15-C16 |
| 21 | A | 1139 | CLA | C6-C7-C8-C9 |
| 21 | A | 1012 | CLA | C6-C7-C8-C9 |
| 21 | B | 1201 | CLA | C6-C7-C8-C9 |
| 21 | B | 1206 | CLA | C6-C7-C8-C9 |
| 21 | B | 1210 | CLA | C14-C13-C15-C16 |
| 21 | B | 1211 | CLA | C6-C7-C8-C9 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | B | 1211 | CLA | C11-C10-C8-C9 |
| 21 | B | 1211 | CLA | C14-C13-C15-C16 |
| 21 | B | 1216 | CLA | C11-C12-C13-C14 |
| 21 | B | 1224 | CLA | C6-C7-C8-C9 |
| 21 | B | 1234 | CLA | C11-C12-C13-C14 |
| 21 | a | 1104 | CLA | C6-C7-C8-C9 |
| 21 | a | 1117 | CLA | C11-C10-C8-C9 |
| 21 | a | 1119 | CLA | C14-C13-C15-C16 |
| 21 | a | 1121 | CLA | C14-C13-C15-C16 |
| 21 | a | 1123 | CLA | C11-C10-C8-C9 |
| 21 | a | 1127 | CLA | C14-C13-C15-C16 |
| 21 | a | 1131 | CLA | C11-C12-C13-C14 |
| 21 | a | 1133 | CLA | C11-C12-C13-C14 |
| 21 | a | 1132 | CLA | C14-C13-C15-C16 |
| 21 | b | 1237 | CLA | C6-C7-C8-C9 |
| 21 | b | 1023 | CLA | C11-C10-C8-C9 |
| 21 | b | 1204 | CLA | C11-C10-C8-C9 |
| 21 | b | 1209 | CLA | C11-C12-C13-C14 |
| 21 | b | 1211 | CLA | C11-C10-C8-C9 |
| 21 | b | 1224 | CLA | C11-C12-C13-C14 |
| 21 | b | 1226 | CLA | C11-C10-C8-C9 |
| 21 | b | 1231 | CLA | C11-C10-C8-C9 |
| 21 | b | 1231 | CLA | C11-C12-C13-C14 |
| 21 | j | 1302 | CLA | C6-C7-C8-C9 |
| 21 | l | 1501 | CLA | C11-C12-C13-C14 |
| 21 | 1 | 1104 | CLA | C11-C12-C13-C14 |
| 21 | 1 | 1111 | CLA | C6-C7-C8-C9 |
| 21 | 1 | 1133 | CLA | C6-C7-C8-C9 |
| 21 | 1 | 1136 | CLA | C11-C12-C13-C14 |
| 21 | 1 | 1012 | CLA | C11-C10-C8-C9 |
| 21 | 2 | 1204 | CLA | C6-C7-C8-C9 |
| 21 | 2 | 1206 | CLA | C11-C10-C8-C9 |
| 21 | 2 | 1218 | CLA | C11-C12-C13-C14 |
| 21 | 2 | 1229 | CLA | C14-C13-C15-C16 |
| 21 | 0 | 1502 | CLA | C14-C13-C15-C16 |
| 22 | A | 2001 | PQN | C19-C18-C20-C21 |
| 22 | B | 2002 | PQN | C21-C22-C23-C24 |
| 21 | A | 1013 | CLA | O1D-CGD-O2D-CED |
| 31 | B | 5008 | SQD | C14-C15-C16-C17 |
| 21 | A | 1108 | CLA | O1D-CGD-O2D-CED |
| 21 | A | 1110 | CLA | C2A-CAA-CBA-CGA |
| 21 | A | 1116 | CLA | C2A-CAA-CBA-CGA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | A | 1138 | CLA | C2A-CAA-CBA-CGA |
| 21 | B | 1022 | CLA | C2A-CAA-CBA-CGA |
| 21 | B | 1236 | CLA | C2A-CAA-CBA-CGA |
| 25 | L | 5005 | LHG | C17-C18-C19-C20 |
| 31 | L | 5002 | SQD | C29-C30-C31-C32 |
| 26 | b | 5007 | LMG | O6-C5-C6-O5 |
| 34 | j | 4015 | ZEX | C27-C28-C29-C39 |
| 21 | B | 1211 | CLA | C15-C16-C17-C18 |
| 21 | l | 1501 | CLA | C13-C15-C16-C17 |
| 25 | a | 5003 | LHG | C31-C32-C33-C34 |
| 25 | 0 | 5002 | LHG | C33-C34-C35-C36 |
| 31 | f | 5001 | SQD | C32-C33-C34-C35 |
| 24 | A | 4003 | BCR | C17-C18-C19-C20 |
| 24 | A | 4012 | BCR | C21-C22-C23-C24 |
| 24 | b | 4005 | BCR | C17-C18-C19-C20 |
| 34 | j | 4015 | ZEX | C27-C28-C29-C30 |
| 35 | F | 6001 | LMT | C1-C2-C3-C4 |
| 21 | B | 1236 | CLA | O1A-CGA-O2A-C1 |
| 21 | F | 1301 | CLA | O1A-CGA-O2A-C1 |
| 21 | K | 1401 | CLA | O1A-CGA-O2A-C1 |
| 21 | K | 1402 | CLA | O1A-CGA-O2A-C1 |
| 21 | b | 1222 | CLA | O1A-CGA-O2A-C1 |
| 21 | 2 | 1226 | CLA | O1A-CGA-O2A-C1 |
| 21 | A | 1104 | CLA | C1A-C2A-CAA-CBA |
| 21 | A | 1105 | CLA | C1A-C2A-CAA-CBA |
| 21 | A | 1111 | CLA | C1A-C2A-CAA-CBA |
| 21 | A | 1116 | CLA | C1A-C2A-CAA-CBA |
| 21 | A | 1120 | CLA | C1A-C2A-CAA-CBA |
| 21 | A | 1125 | CLA | C1A-C2A-CAA-CBA |
| 21 | A | 1135 | CLA | C1A-C2A-CAA-CBA |
| 21 | A | 1137 | CLA | C1A-C2A-CAA-CBA |
| 21 | A | 1801 | CLA | C1A-C2A-CAA-CBA |
| 21 | B | 1202 | CLA | C1A-C2A-CAA-CBA |
| 21 | B | 1220 | CLA | C1A-C2A-CAA-CBA |
| 21 | B | 1236 | CLA | C1A-C2A-CAA-CBA |
| 21 | a | 1104 | CLA | C1A-C2A-CAA-CBA |
| 21 | a | 1106 | CLA | C1A-C2A-CAA-CBA |
| 21 | a | 1107 | CLA | C1A-C2A-CAA-CBA |
| 21 | a | 1111 | CLA | C1A-C2A-CAA-CBA |
| 21 | a | 1113 | CLA | C1A-C2A-CAA-CBA |
| 21 | a | 1116 | CLA | C1A-C2A-CAA-CBA |
| 21 | a | 1129 | CLA | C1A-C2A-CAA-CBA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | a | 1135 | CLA | C1A-C2A-CAA-CBA |
| 21 | a | 1130 | CLA | C1A-C2A-CAA-CBA |
| 21 | b | 1202 | CLA | C1A-C2A-CAA-CBA |
| 21 | b | 1212 | CLA | C1A-C2A-CAA-CBA |
| 21 | b | 1217 | CLA | C1A-C2A-CAA-CBA |
| 21 | b | 1219 | CLA | C1A-C2A-CAA-CBA |
| 21 | b | 1220 | CLA | C1A-C2A-CAA-CBA |
| 21 | b | 1224 | CLA | C1A-C2A-CAA-CBA |
| 21 | b | 1234 | CLA | C1A-C2A-CAA-CBA |
| 21 | b | 1236 | CLA | C1A-C2A-CAA-CBA |
| 21 | b | 1240 | CLA | C1A-C2A-CAA-CBA |
| 21 | b | 1230 | CLA | C1A-C2A-CAA-CBA |
| 21 | k | 1401 | CLA | C1A-C2A-CAA-CBA |
| 21 | l | 1501 | CLA | C1A-C2A-CAA-CBA |
| 21 | 1 | 1102 | CLA | C1A-C2A-CAA-CBA |
| 21 | 1 | 1104 | CLA | C1A-C2A-CAA-CBA |
| 21 | 1 | 1109 | CLA | C1A-C2A-CAA-CBA |
| 21 | 1 | 1111 | CLA | C1A-C2A-CAA-CBA |
| 21 | 1 | 1113 | CLA | C1A-C2A-CAA-CBA |
| 21 | 1 | 1114 | CLA | C1A-C2A-CAA-CBA |
| 21 | 1 | 1120 | CLA | C1A-C2A-CAA-CBA |
| 21 | 1 | 1127 | CLA | C1A-C2A-CAA-CBA |
| 21 | 1 | 1134 | CLA | C1A-C2A-CAA-CBA |
| 21 | 1 | 1135 | CLA | C1A-C2A-CAA-CBA |
| 21 | 1 | 1130 | CLA | C1A-C2A-CAA-CBA |
| 21 | 2 | 1202 | CLA | C1A-C2A-CAA-CBA |
| 21 | 2 | 1208 | CLA | C1A-C2A-CAA-CBA |
| 21 | 2 | 1216 | CLA | C1A-C2A-CAA-CBA |
| 21 | 2 | 1218 | CLA | C1A-C2A-CAA-CBA |
| 21 | 2 | 1222 | CLA | C1A-C2A-CAA-CBA |
| 21 | 2 | 1236 | CLA | C1A-C2A-CAA-CBA |
| 21 | 2 | 1230 | CLA | C1A-C2A-CAA-CBA |
| 21 | 6 | 1302 | CLA | C1A-C2A-CAA-CBA |
| 21 | B | 1204 | CLA | C16-C17-C18-C19 |
| 21 | B | 1208 | CLA | C16-C17-C18-C20 |
| 21 | b | 1021 | CLA | C16-C17-C18-C19 |
| 21 | b | 1211 | CLA | C16-C17-C18-C19 |
| 21 | b | 1231 | CLA | C16-C17-C18-C19 |
| 21 | 1 | 1132 | CLA | C16-C17-C18-C19 |
| 21 | 1 | 1133 | CLA | C16-C17-C18-C20 |
| 25 | a | 5001 | LHG | O9-C7-O7-C5 |
| 31 | B | 5008 | SQD | O49-C7-O47-C45 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 25 | A | 5005 | LHG | C28-C29-C30-C31 |
| 25 | B | 5006 | LHG | C13-C14-C15-C16 |
| 25 | B | 5006 | LHG | C17-C18-C19-C20 |
| 25 | M | 5001 | LHG | C27-C28-C29-C30 |
| 25 | l | 5002 | LHG | C28-C29-C30-C31 |
| 25 | 1 | 5003 | LHG | C24-C25-C26-C27 |
| 25 | 1 | 5003 | LHG | C28-C29-C30-C31 |
| 26 | a | 5004 | LMG | C15-C16-C17-C18 |
| 24 | B | 4005 | BCR | C15-C16-C17-C18 |
| 24 | K | 4001 | BCR | C13-C14-C15-C16 |
| 24 | b | 4017 | BCR | C15-C16-C17-C18 |
| 24 | b | 4018 | BCR | C19-C20-C21-C22 |
| 24 | 7 | 4013 | BCR | C19-C20-C21-C22 |
| 21 | a | 1104 | CLA | C13-C15-C16-C17 |
| 21 | a | 1126 | CLA | C10-C11-C12-C13 |
| 21 | j | 1302 | CLA | C13-C15-C16-C17 |
| 21 | 1 | 1117 | CLA | C5-C6-C7-C8 |
| 21 | 1 | 1134 | CLA | C13-C15-C16-C17 |
| 21 | 2 | 1239 | CLA | C10-C11-C12-C13 |
| 25 | a | 5003 | LHG | C33-C34-C35-C36 |
| 25 | 2 | 5004 | LHG | C30-C31-C32-C33 |
| 26 | B | 5002 | LMG | O6-C5-C6-O5 |
| 26 | b | 5002 | LMG | O6-C5-C6-O5 |
| 21 | a | 1140 | CLA | C3-C5-C6-C7 |
| 21 | B | 1205 | CLA | O1D-CGD-O2D-CED |
| 21 | K | 1401 | CLA | O1D-CGD-O2D-CED |
| 25 | M | 5001 | LHG | C34-C35-C36-C37 |
| 21 | A | 1011 | CLA | O1A-CGA-O2A-C1 |
| 21 | a | 1133 | CLA | O1A-CGA-O2A-C1 |
| 21 | A | 1135 | CLA | C13-C15-C16-C17 |
| 21 | a | 1125 | CLA | C15-C16-C17-C18 |
| 21 | 1 | 1126 | CLA | C15-C16-C17-C18 |
| 21 | 1 | 1101 | CLA | C8-C10-C11-C12 |
| 21 | 2 | 1206 | CLA | C10-C11-C12-C13 |
| 21 | a | 1111 | CLA | CBA-CGA-O2A-C1 |
| 25 | A | 5007 | LHG | O6-C4-C5-C6 |
| 25 | F | 5002 | LHG | O6-C4-C5-C6 |
| 25 | b | 5004 | LHG | O6-C4-C5-C6 |
| 25 | l | 5002 | LHG | O6-C4-C5-C6 |
| 25 | 1 | 5001 | LHG | O6-C4-C5-C6 |
| 25 | a | 5001 | LHG | C25-C26-C27-C28 |
| 25 | 0 | 5002 | LHG | C31-C32-C33-C34 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 26 | K | 5009 | LMG | C10-C11-C12-C13 |
| 21 | B | 1222 | CLA | O1D-CGD-O2D-CED |
| 25 | A | 5005 | LHG | C17-C18-C19-C20 |
| 26 | B | 5005 | LMG | C14-C15-C16-C17 |
| 31 | f | 5001 | SQD | C10-C11-C12-C13 |
| 21 | a | 1128 | CLA | C15-C16-C17-C18 |
| 21 | b | 1210 | CLA | C15-C16-C17-C18 |
| 21 | A | 1013 | CLA | C16-C17-C18-C20 |
| 21 | A | 1132 | CLA | C16-C17-C18-C20 |
| 21 | 1 | 1134 | CLA | C16-C17-C18-C19 |
| 25 | 1 | 5001 | LHG | C28-C29-C30-C31 |
| 31 | b | 5006 | SQD | C13-C14-C15-C16 |
| 21 | b | 1216 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1224 | CLA | C3-C5-C6-C7 |
| 21 | A | 1128 | CLA | CBA-CGA-O2A-C1 |
| 21 | B | 1227 | CLA | C4-C3-C5-C6 |
| 21 | b | 1231 | CLA | C4-C3-C5-C6 |
| 21 | 1 | 1136 | CLA | C4-C3-C5-C6 |
| 25 | B | 5006 | LHG | C9-C10-C11-C12 |
| 25 | M | 5001 | LHG | C12-C13-C14-C15 |
| 31 | L | 5002 | SQD | C31-C32-C33-C34 |
| 21 | B | 1208 | CLA | C8-C10-C11-C12 |
| 21 | a | 1115 | CLA | C15-C16-C17-C18 |
| 21 | b | 1232 | CLA | C13-C15-C16-C17 |
| 25 | B | 5006 | LHG | C27-C28-C29-C30 |
| 25 | L | 5005 | LHG | C12-C13-C14-C15 |
| 25 | a | 5003 | LHG | C26-C27-C28-C29 |
| 25 | b | 5004 | LHG | C25-C26-C27-C28 |
| 31 | B | 5008 | SQD | C33-C34-C35-C36 |
| 35 | 0 | 6001 | LMT | C7-C8-C9-C10 |
| 37 | L | 5004 | DGD | C7B-C8B-C9B-CAB |
| 21 | b | 1228 | CLA | O1A-CGA-O2A-C1 |
| 21 | b | 1230 | CLA | O1A-CGA-O2A-C1 |
| 25 | a | 5003 | LHG | C11-C10-C9-C8 |
| 21 | 2 | 1228 | CLA | C2A-CAA-CBA-CGA |
| 21 | A | 1117 | CLA | C16-C17-C18-C19 |
| 21 | 2 | 1203 | CLA | C16-C17-C18-C19 |
| 25 | A | 5007 | LHG | C4-C5-C6-O8 |
| 25 | L | 5005 | LHG | C4-C5-C6-O8 |
| 25 | b | 5004 | LHG | C4-C5-C6-O8 |
| 25 | 1 | 5005 | LHG | C4-C5-C6-O8 |
| 25 | 1 | 5007 | LHG | C33-C34-C35-C36 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 25 | 1 | 5001 | LHG | C4-C5-C6-O8 |
| 26 | 1 | 5002 | LMG | C7-C8-C9-O8 |
| 31 | L | 5001 | SQD | C44-C45-C46-O48 |
| 31 | b | 5006 | SQD | O6-C44-C45-C46 |
| 31 | 0 | 5005 | SQD | O6-C44-C45-C46 |
| 21 | a | 1109 | CLA | C8-C10-C11-C12 |
| 21 | b | 1216 | CLA | C8-C10-C11-C12 |
| 21 | 2 | 1214 | CLA | C11-C12-C13-C14 |
| 21 | A | 1116 | CLA | O1A-CGA-O2A-C1 |
| 21 | 2 | 1021 | CLA | O1A-CGA-O2A-C1 |
| 26 | A | 5008 | LMG | C8-C7-O1-C1 |
| 26 | b | 5007 | LMG | C8-C7-O1-C1 |
| 31 | 0 | 5005 | SQD | C45-C44-O6-C1 |
| 25 | a | 5007 | LHG | C29-C30-C31-C32 |
| 25 | 2 | 5004 | LHG | C26-C27-C28-C29 |
| 35 | 1 | 6001 | LMT | C5-C6-C7-C8 |
| 21 | A | 1118 | CLA | C13-C15-C16-C17 |
| 21 | j | 1302 | CLA | C15-C16-C17-C18 |
| 25 | A | 5001 | LHG | C33-C34-C35-C36 |
| 26 | A | 5004 | LMG | C16-C17-C18-C19 |
| 31 | L | 5002 | SQD | C25-C26-C27-C28 |
| 26 | a | 5002 | LMG | C10-C11-C12-C13 |
| 21 | A | 1128 | CLA | O1A-CGA-O2A-C1 |
| 21 | B | 1203 | CLA | O1A-CGA-O2A-C1 |
| 21 | F | 1302 | CLA | O1A-CGA-O2A-C1 |
| 25 | 1 | 5005 | LHG | C32-C33-C34-C35 |
| 35 | 1 | 6001 | LMT | C4B-C5B-C6B-O6B |
| 25 | B | 5006 | LHG | O1-C1-C2-O2 |
| 25 | a | 5003 | LHG | O1-C1-C2-O2 |
| 25 | a | 5007 | LHG | O1-C1-C2-O2 |
| 25 | l | 5004 | LHG | O1-C1-C2-O2 |
| 31 | 0 | 5005 | SQD | C32-C33-C34-C35 |
| 21 | a | 1133 | CLA | C10-C11-C12-C13 |
| 21 | a | 1111 | CLA | O1A-CGA-O2A-C1 |
| 21 | a | 1119 | CLA | O1A-CGA-O2A-C1 |
| 21 | b | 1236 | CLA | O1A-CGA-O2A-C1 |
| 26 | 1 | 5002 | LMG | C10-C11-C12-C13 |
| 25 | a | 5003 | LHG | C9-C10-C11-C12 |
| 25 | l | 5004 | LHG | C8-C7-O7-C5 |
| 25 | a | 5003 | LHG | C19-C20-C21-C22 |
| 21 | A | 1106 | CLA | O1D-CGD-O2D-CED |
| 21 | 1 | 1133 | CLA | O1D-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | 2 | 1223 | CLA | O1D-CGD-O2D-CED |
| 21 | a | 1121 | CLA | C13-C15-C16-C17 |
| 21 | a | 1121 | CLA | C15-C16-C17-C18 |
| 21 | a | 1012 | CLA | C13-C15-C16-C17 |
| 21 | 1 | 1103 | CLA | C10-C11-C12-C13 |
| 22 | b | 2002 | PQN | C20-C21-C22-C23 |
| 26 | a | 5002 | LMG | O6-C5-C6-O5 |
| 21 | B | 1202 | CLA | C4-C3-C5-C6 |
| 21 | b | 1202 | CLA | C4-C3-C5-C6 |
| 21 | 1 | 1119 | CLA | C4-C3-C5-C6 |
| 21 | 1 | 1131 | CLA | C4-C3-C5-C6 |
| 25 | F | 5002 | LHG | C19-C20-C21-C22 |
| 25 | 1 | 5001 | LHG | C9-C10-C11-C12 |
| 25 | 2 | 5004 | LHG | C28-C29-C30-C31 |
| 21 | A | 1120 | CLA | C16-C17-C18-C20 |
| 21 | B | 1224 | CLA | C16-C17-C18-C20 |
| 21 | B | 1211 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1125 | CLA | CBA-CGA-O2A-C1 |
| 21 | 0 | 1503 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1131 | CLA | CBD-CGD-O2D-CED |
| 21 | A | 1127 | CLA | C5-C6-C7-C8 |
| 21 | a | 1111 | CLA | C8-C10-C11-C12 |
| 21 | a | 1130 | CLA | C8-C10-C11-C12 |
| 21 | 1 | 1116 | CLA | C5-C6-C7-C8 |
| 21 | 2 | 1203 | CLA | C15-C16-C17-C18 |
| 21 | 2 | 1221 | CLA | C5-C6-C7-C8 |
| 25 | A | 5007 | LHG | C28-C29-C30-C31 |
| 26 | A | 5008 | LMG | C12-C13-C14-C15 |
| 31 | L | 5002 | SQD | C16-C17-C18-C19 |
| 25 | F | 5002 | LHG | C6-C5-O7-C7 |
| 26 | a | 5004 | LMG | C7-C8-O7-C10 |
| 21 | B | 1228 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1023 | CLA | C2A-CAA-CBA-CGA |
| 21 | B | 1215 | CLA | C15-C16-C17-C18 |
| 21 | 2 | 1203 | CLA | C8-C10-C11-C12 |
| 21 | A | 1129 | CLA | C2-C1-O2A-CGA |
| 21 | B | 1207 | CLA | C2-C1-O2A-CGA |
| 21 | a | 1102 | CLA | C2-C1-O2A-CGA |
| 21 | a | 1121 | CLA | C2-C1-O2A-CGA |
| 21 | b | 1022 | CLA | C2-C1-O2A-CGA |
| 21 | b | 1203 | CLA | C2-C1-O2A-CGA |
| 21 | b | 1225 | CLA | C2-C1-O2A-CGA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | 1 | 1110 | CLA | C2-C1-O2A-CGA |
| 21 | 1 | 1119 | CLA | C2-C1-O2A-CGA |
| 21 | 2 | 1225 | CLA | C2-C1-O2A-CGA |
| 25 | 1 | 5005 | LHG | C33-C34-C35-C36 |
| 31 | L | 5002 | SQD | C32-C33-C34-C35 |
| 21 | 1 | 1013 | CLA | O1D-CGD-O2D-CED |
| 25 | 1 | 5007 | LHG | C11-C12-C13-C14 |
| 21 | A | 1113 | CLA | C10-C11-C12-C13 |
| 21 | A | 1125 | CLA | C10-C11-C12-C13 |
| 21 | B | 1230 | CLA | C8-C10-C11-C12 |
| 21 | a | 1121 | CLA | C5-C6-C7-C8 |
| 25 | l | 5004 | LHG | C31-C32-C33-C34 |
| 25 | 1 | 5001 | LHG | C35-C36-C37-C38 |
| 31 | L | 5002 | SQD | C24-C25-C26-C27 |
| 31 | b | 5006 | SQD | C31-C32-C33-C34 |
| 21 | B | 1222 | CLA | CBA-CGA-O2A-C1 |
| 21 | 1 | 1116 | CLA | CBA-CGA-O2A-C1 |
| 21 | 1 | 1129 | CLA | CBA-CGA-O2A-C1 |
| 21 | 2 | 1203 | CLA | CBA-CGA-O2A-C1 |
| 21 | 0 | 1502 | CLA | CBA-CGA-O2A-C1 |
| 25 | a | 5001 | LHG | O6-C4-C5-O7 |
| 21 | A | 1011 | CLA | CAA-CBA-CGA-O2A |
| 25 | a | 5003 | LHG | O8-C23-C24-C25 |
| 21 | B | 1221 | CLA | C16-C17-C18-C20 |
| 21 | b | 1221 | CLA | C16-C17-C18-C19 |
| 25 | A | 5001 | LHG | C34-C35-C36-C37 |
| 25 | a | 5007 | LHG | C19-C20-C21-C22 |
| 25 | 2 | 5004 | LHG | C29-C30-C31-C32 |
| 21 | A | 1109 | CLA | C8-C10-C11-C12 |
| 21 | l | 1501 | CLA | C10-C11-C12-C13 |
| 25 | A | 5003 | LHG | C19-C20-C21-C22 |
| 25 | A | 5005 | LHG | C35-C36-C37-C38 |
| 25 | 0 | 5004 | LHG | C30-C31-C32-C33 |
| 25 | 1 | 5003 | LHG | C29-C30-C31-C32 |
| 26 | A | 5002 | LMG | C28-C29-C30-C31 |
| 21 | A | 1129 | CLA | C5-C6-C7-C8 |
| 21 | B | 1201 | CLA | C13-C15-C16-C17 |
| 21 | b | 1023 | CLA | C10-C11-C12-C13 |
| 21 | b | 1209 | CLA | C8-C10-C11-C12 |
| 21 | 1 | 1101 | CLA | C13-C15-C16-C17 |
| 26 | K | 5009 | LMG | C2-C1-O1-C7 |
| 31 | f | 5001 | SQD | C2-C1-O6-C44 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 31 | 0 | 5005 | SQD | C2-C1-O6-C44 |
| 37 | L | 5004 | DGD | C2E-C1E-O5D-C6D |
| 25 | a | 5001 | LHG | O7-C5-C6-O8 |
| 25 | A | 5001 | LHG | C19-C20-C21-C22 |
| 25 | 0 | 5004 | LHG | C9-C10-C11-C12 |
| 31 | b | 5006 | SQD | C10-C11-C12-C13 |
| 25 | a | 5003 | LHG | O9-C7-O7-C5 |
| 21 | B | 1209 | CLA | C10-C11-C12-C13 |
| 21 | B | 1226 | CLA | C5-C6-C7-C8 |
| 21 | b | 1218 | CLA | C8-C10-C11-C12 |
| 21 | 2 | 1239 | CLA | C13-C15-C16-C17 |
| 21 | a | 1125 | CLA | O1A-CGA-O2A-C1 |
| 21 | B | 1214 | CLA | C16-C17-C18-C19 |
| 21 | b | 1203 | CLA | C16-C17-C18-C20 |
| 25 | a | 5003 | LHG | C28-C29-C30-C31 |
| 25 | l | 5003 | LHG | C35-C36-C37-C38 |
| 26 | A | 5008 | LMG | C34-C35-C36-C37 |
| 21 | A | 1108 | CLA | C4-C3-C5-C6 |
| 21 | K | 1402 | CLA | C4-C3-C5-C6 |
| 21 | b | 1204 | CLA | C4-C3-C5-C6 |
| 21 | A | 1104 | CLA | C11-C12-C13-C15 |
| 21 | A | 1107 | CLA | C11-C12-C13-C15 |
| 21 | A | 1112 | CLA | C11-C10-C8-C7 |
| 21 | A | 1119 | CLA | C11-C12-C13-C15 |
| 21 | A | 1121 | CLA | C6-C7-C8-C10 |
| 21 | A | 1122 | CLA | C6-C7-C8-C10 |
| 21 | A | 1124 | CLA | C11-C10-C8-C7 |
| 21 | A | 1126 | CLA | C12-C13-C15-C16 |
| 21 | A | 1128 | CLA | C6-C7-C8-C10 |
| 21 | A | 1129 | CLA | C11-C10-C8-C7 |
| 21 | A | 1131 | CLA | C6-C7-C8-C10 |
| 21 | A | 1131 | CLA | C11-C10-C8-C7 |
| 21 | A | 1131 | CLA | C12-C13-C15-C16 |
| 21 | A | 1135 | CLA | C11-C10-C8-C7 |
| 21 | A | 1139 | CLA | C6-C7-C8-C10 |
| 21 | A | 1139 | CLA | C12-C13-C15-C16 |
| 21 | A | 1012 | CLA | C11-C10-C8-C7 |
| 21 | A | 1012 | CLA | C11-C12-C13-C15 |
| 21 | B | 1023 | CLA | C11-C12-C13-C15 |
| 21 | B | 1202 | CLA | C2-C3-C5-C6 |
| 21 | B | 1203 | CLA | C11-C10-C8-C7 |
| 21 | B | 1213 | CLA | C11-C12-C13-C15 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | B | 1215 | CLA | C6-C7-C8-C10 |
| 21 | B | 1216 | CLA | C2-C3-C5-C6 |
| 21 | B | 1217 | CLA | C12-C13-C15-C16 |
| 21 | B | 1226 | CLA | C6-C7-C8-C10 |
| 21 | B | 1235 | CLA | C12-C13-C15-C16 |
| 21 | B | 1239 | CLA | C11-C12-C13-C15 |
| 21 | F | 1302 | CLA | C11-C12-C13-C15 |
| 21 | J | 1303 | CLA | C6-C7-C8-C10 |
| 21 | J | 1303 | CLA | C11-C12-C13-C15 |
| 21 | K | 1402 | CLA | C2-C3-C5-C6 |
| 21 | L | 1501 | CLA | C11-C12-C13-C15 |
| 21 | a | 1011 | CLA | C12-C13-C15-C16 |
| 21 | a | 1103 | CLA | C6-C7-C8-C10 |
| 21 | a | 1103 | CLA | C11-C10-C8-C7 |
| 21 | a | 1104 | CLA | C11-C12-C13-C15 |
| 21 | a | 1110 | CLA | C6-C7-C8-C10 |
| 21 | a | 1112 | CLA | C11-C10-C8-C7 |
| 21 | a | 1112 | CLA | C12-C13-C15-C16 |
| 21 | a | 1117 | CLA | C12-C13-C15-C16 |
| 21 | a | 1119 | CLA | C12-C13-C15-C16 |
| 21 | a | 1121 | CLA | C12-C13-C15-C16 |
| 21 | a | 1122 | CLA | C12-C13-C15-C16 |
| 21 | a | 1127 | CLA | C6-C7-C8-C10 |
| 21 | a | 1127 | CLA | C12-C13-C15-C16 |
| 21 | a | 1131 | CLA | C11-C12-C13-C15 |
| 21 | a | 1130 | CLA | C11-C12-C13-C15 |
| 21 | a | 1012 | CLA | C6-C7-C8-C10 |
| 21 | a | 1012 | CLA | C11-C10-C8-C7 |
| 21 | b | 1237 | CLA | C6-C7-C8-C10 |
| 21 | b | 1021 | CLA | C11-C10-C8-C7 |
| 21 | b | 1023 | CLA | C6-C7-C8-C10 |
| 21 | b | 1202 | CLA | C2-C3-C5-C6 |
| 21 | b | 1206 | CLA | C12-C13-C15-C16 |
| 21 | b | 1207 | CLA | C6-C7-C8-C10 |
| 21 | b | 1211 | CLA | C6-C7-C8-C10 |
| 21 | b | 1211 | CLA | C11-C12-C13-C15 |
| 21 | b | 1212 | CLA | C11-C10-C8-C7 |
| 21 | b | 1215 | CLA | C11-C10-C8-C7 |
| 21 | b | 1218 | CLA | C12-C13-C15-C16 |
| 21 | b | 1219 | CLA | C6-C7-C8-C10 |
| 21 | b | 1224 | CLA | C11-C12-C13-C15 |
| 21 | b | 1226 | CLA | C11-C10-C8-C7 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | b | 1235 | CLA | C6-C7-C8-C10 |
| 21 | b | 1240 | CLA | C12-C13-C15-C16 |
| 21 | b | 1201 | CLA | C11-C10-C8-C7 |
| 21 | f | 1302 | CLA | C6-C7-C8-C10 |
| 21 | j | 1302 | CLA | C6-C7-C8-C10 |
| 21 | j | 1302 | CLA | C11-C10-C8-C7 |
| 21 | l | 1501 | CLA | C12-C13-C15-C16 |
| 21 | l | 1502 | CLA | C12-C13-C15-C16 |
| 21 | l | 1503 | CLA | C6-C7-C8-C10 |
| 21 | 1 | 1013 | CLA | C6-C7-C8-C10 |
| 21 | 1 | 1103 | CLA | C12-C13-C15-C16 |
| 21 | 1 | 1104 | CLA | C12-C13-C15-C16 |
| 21 | 1 | 1109 | CLA | C11-C10-C8-C7 |
| 21 | 1 | 1109 | CLA | C11-C12-C13-C15 |
| 21 | 1 | 1111 | CLA | C6-C7-C8-C10 |
| 21 | 1 | 1111 | CLA | C11-C10-C8-C7 |
| 21 | 1 | 1117 | CLA | C12-C13-C15-C16 |
| 21 | 1 | 1118 | CLA | C11-C12-C13-C15 |
| 21 | 1 | 1120 | CLA | C12-C13-C15-C16 |
| 21 | 1 | 1123 | CLA | C11-C10-C8-C7 |
| 21 | 1 | 1126 | CLA | C6-C7-C8-C10 |
| 21 | 1 | 1127 | CLA | C12-C13-C15-C16 |
| 21 | 1 | 1131 | CLA | C2-C3-C5-C6 |
| 21 | 1 | 1133 | CLA | C11-C12-C13-C15 |
| 21 | 1 | 1136 | CLA | C11-C12-C13-C15 |
| 21 | 2 | 1023 | CLA | C11-C10-C8-C7 |
| 21 | 2 | 1205 | CLA | C11-C10-C8-C7 |
| 21 | 2 | 1210 | CLA | C6-C7-C8-C10 |
| 21 | 2 | 1218 | CLA | C11-C10-C8-C7 |
| 21 | 2 | 1218 | CLA | C11-C12-C13-C15 |
| 21 | 2 | 1229 | CLA | C12-C13-C15-C16 |
| 21 | 2 | 1239 | CLA | C6-C7-C8-C10 |
| 21 | 0 | 1501 | CLA | C12-C13-C15-C16 |
| 21 | 0 | 1502 | CLA | C12-C13-C15-C16 |
| 21 | 0 | 1503 | CLA | C11-C12-C13-C15 |
| 22 | A | 2001 | PQN | C21-C22-C23-C25 |
| 22 | B | 2002 | PQN | C21-C22-C23-C25 |
| 22 | a | 2001 | PQN | C21-C22-C23-C25 |
| 22 | 2 | 2002 | PQN | C17-C18-C20-C21 |
| 21 | b | 1220 | CLA | C3-C5-C6-C7 |
| 25 | 1 | 5007 | LHG | C29-C30-C31-C32 |
| 21 | A | 1013 | CLA | C14-C13-C15-C16 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | A | 1121 | CLA | C14-C13-C15-C16 |
| 21 | A | 1123 | CLA | C11-C10-C8-C9 |
| 21 | A | 1127 | CLA | C14-C13-C15-C16 |
| 21 | A | 1128 | CLA | C11-C12-C13-C14 |
| 21 | A | 1132 | CLA | C14-C13-C15-C16 |
| 21 | A | 1135 | CLA | C11-C10-C8-C9 |
| 21 | A | 1138 | CLA | C11-C10-C8-C9 |
| 21 | A | 1139 | CLA | C14-C13-C15-C16 |
| 21 | B | 1204 | CLA | C11-C10-C8-C9 |
| 21 | B | 1209 | CLA | C11-C12-C13-C14 |
| 21 | B | 1216 | CLA | C14-C13-C15-C16 |
| 21 | B | 1218 | CLA | C11-C10-C8-C9 |
| 21 | B | 1229 | CLA | C6-C7-C8-C9 |
| 21 | B | 1231 | CLA | C6-C7-C8-C9 |
| 21 | B | 1235 | CLA | C14-C13-C15-C16 |
| 21 | B | 1238 | CLA | C11-C10-C8-C9 |
| 21 | B | 1239 | CLA | C11-C10-C8-C9 |
| 21 | B | 1239 | CLA | C11-C12-C13-C14 |
| 21 | B | 1240 | CLA | C11-C10-C8-C9 |
| 21 | J | 1303 | CLA | C11-C12-C13-C14 |
| 21 | K | 1401 | CLA | C6-C7-C8-C9 |
| 21 | L | 1501 | CLA | C11-C12-C13-C14 |
| 21 | L | 1502 | CLA | C14-C13-C15-C16 |
| 21 | a | 1011 | CLA | C11-C10-C8-C9 |
| 21 | a | 1103 | CLA | C6-C7-C8-C9 |
| 21 | a | 1103 | CLA | C11-C10-C8-C9 |
| 21 | a | 1103 | CLA | C11-C12-C13-C14 |
| 21 | a | 1108 | CLA | C6-C7-C8-C9 |
| 21 | a | 1112 | CLA | C14-C13-C15-C16 |
| 21 | a | 1121 | CLA | C11-C12-C13-C14 |
| 21 | a | 1128 | CLA | C6-C7-C8-C9 |
| 21 | a | 1135 | CLA | C11-C10-C8-C9 |
| 21 | b | 1021 | CLA | C11-C10-C8-C9 |
| 21 | b | 1021 | CLA | C11-C12-C13-C14 |
| 21 | b | 1202 | CLA | C11-C12-C13-C14 |
| 21 | b | 1207 | CLA | C11-C12-C13-C14 |
| 21 | b | 1210 | CLA | C11-C10-C8-C9 |
| 21 | b | 1211 | CLA | C6-C7-C8-C9 |
| 21 | b | 1218 | CLA | C14-C13-C15-C16 |
| 21 | b | 1221 | CLA | C6-C7-C8-C9 |
| 21 | b | 1223 | CLA | C14-C13-C15-C16 |
| 21 | b | 1227 | CLA | C11-C12-C13-C14 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | b | 1235 | CLA | C6-C7-C8-C9 |
| 21 | b | 1240 | CLA | C14-C13-C15-C16 |
| 21 | b | 1230 | CLA | C11-C10-C8-C9 |
| 21 | b | 1201 | CLA | C11-C10-C8-C9 |
| 21 | f | 1302 | CLA | C11-C10-C8-C9 |
| 21 | l | 1502 | CLA | C14-C13-C15-C16 |
| 21 | l | 1503 | CLA | C6-C7-C8-C9 |
| 21 | 1 | 1013 | CLA | C6-C7-C8-C9 |
| 21 | 1 | 1104 | CLA | C14-C13-C15-C16 |
| 21 | 1 | 1111 | CLA | C11-C10-C8-C9 |
| 21 | 1 | 1117 | CLA | C14-C13-C15-C16 |
| 21 | 1 | 1118 | CLA | C11-C12-C13-C14 |
| 21 | 1 | 1123 | CLA | C11-C10-C8-C9 |
| 21 | 1 | 1126 | CLA | C14-C13-C15-C16 |
| 21 | 1 | 1127 | CLA | C14-C13-C15-C16 |
| 21 | 1 | 1131 | CLA | C6-C7-C8-C9 |
| 21 | 1 | 1131 | CLA | C14-C13-C15-C16 |
| 21 | 2 | 1023 | CLA | C11-C10-C8-C9 |
| 21 | 2 | 1203 | CLA | C14-C13-C15-C16 |
| 21 | 2 | 1205 | CLA | C11-C10-C8-C9 |
| 21 | 2 | 1218 | CLA | C11-C10-C8-C9 |
| 21 | 2 | 1225 | CLA | C6-C7-C8-C9 |
| 21 | 2 | 1225 | CLA | C14-C13-C15-C16 |
| 21 | 0 | 1501 | CLA | C14-C13-C15-C16 |
| 21 | 0 | 1503 | CLA | C14-C13-C15-C16 |
| 22 | A | 2001 | PQN | C21-C22-C23-C24 |
| 22 | a | 2001 | PQN | C21-C22-C23-C24 |
| 22 | 1 | 2001 | PQN | C21-C22-C23-C24 |
| 24 | a | 4001 | BCR | C13-C14-C15-C16 |
| 25 | B | 5006 | LHG | C29-C30-C31-C32 |
| 25 | M | 5001 | LHG | C14-C15-C16-C17 |
| 31 | L | 5002 | SQD | C15-C16-C17-C18 |
| 21 | B | 1240 | CLA | CBA-CGA-O2A-C1 |
| 21 | 1 | 1118 | CLA | CBA-CGA-O2A-C1 |
| 21 | B | 1214 | CLA | C10-C11-C12-C13 |
| 21 | B | 1219 | CLA | C10-C11-C12-C13 |
| 21 | a | 1122 | CLA | C8-C10-C11-C12 |
| 21 | 2 | 1238 | CLA | C8-C10-C11-C12 |
| 25 | a | 5001 | LHG | C35-C36-C37-C38 |
| 25 | a | 5007 | LHG | C26-C27-C28-C29 |
| 26 | a | 5002 | LMG | C37-C38-C39-C40 |
| 31 | f | 5001 | SQD | C34-C35-C36-C37 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | 1 | 1131 | CLA | C8-C10-C11-C12 |
| 21 | A | 1013 | CLA | C16-C17-C18-C19 |
| 21 | a | 1115 | CLA | C16-C17-C18-C19 |
| 21 | a | 1127 | CLA | C16-C17-C18-C20 |
| 21 | 1 | 1111 | CLA | C16-C17-C18-C20 |
| 31 | F | 5001 | SQD | C35-C36-C37-C38 |
| 21 | 1 | 1124 | CLA | O1D-CGD-O2D-CED |
| 24 | B | 4004 | BCR | C7-C8-C9-C10 |
| 24 | B | 4018 | BCR | C21-C22-C23-C24 |
| 24 | L | 4019 | BCR | C7-C8-C9-C10 |
| 30 | B | 4006 | ECH | C21-C22-C23-C24 |
| 25 | B | 5004 | LHG | C9-C10-C11-C12 |
| 25 | B | 5006 | LHG | C14-C15-C16-C17 |
| 31 | b | 5006 | SQD | C14-C15-C16-C17 |
| 21 | a | 1111 | CLA | C3-C5-C6-C7 |
| 21 | 2 | 1208 | CLA | C3-C5-C6-C7 |
| 21 | 2 | 1226 | CLA | O1D-CGD-O2D-CED |
| 21 | 2 | 1234 | CLA | O1D-CGD-O2D-CED |
| 21 | A | 1013 | CLA | C8-C10-C11-C12 |
| 21 | 1 | 1130 | CLA | C5-C6-C7-C8 |
| 21 | 2 | 1237 | CLA | C5-C6-C7-C8 |
| 25 | 1 | 5007 | LHG | C25-C26-C27-C28 |
| 25 | 0 | 5004 | LHG | C35-C36-C37-C38 |
| 31 | f | 5001 | SQD | C26-C27-C28-C29 |
| 21 | a | 1127 | CLA | CBA-CGA-O2A-C1 |
| 25 | 1 | 5003 | LHG | C35-C36-C37-C38 |
| 21 | B | 1231 | CLA | C15-C16-C17-C18 |
| 21 | B | 1230 | CLA | C5-C6-C7-C8 |
| 21 | F | 1301 | CLA | C10-C11-C12-C13 |
| 26 | 2 | 5005 | LMG | C42-C43-C44-C45 |
| 31 | b | 5006 | SQD | C9-C10-C11-C12 |
| 31 | F | 5001 | SQD | C17-C18-C19-C20 |
| 21 | B | 1224 | CLA | C16-C17-C18-C19 |
| 21 | A | 1140 | CLA | C15-C16-C17-C18 |
| 21 | B | 1216 | CLA | C13-C15-C16-C17 |
| 25 | a | 5001 | LHG | O6-C4-C5-C6 |
| 25 | 1 | 5005 | LHG | O6-C4-C5-C6 |
| 25 | 2 | 5004 | LHG | O6-C4-C5-C6 |
| 25 | 0 | 5004 | LHG | O6-C4-C5-C6 |
| 21 | 1 | 1140 | CLA | C3-C5-C6-C7 |
| 25 | F | 5002 | LHG | C25-C26-C27-C28 |
| 25 | 1 | 5001 | LHG | C33-C34-C35-C36 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 26 | K | 5009 | LMG | C32-C33-C34-C35 |
| 21 | A | 1013 | CLA | CBA-CGA-O2A-C1 |
| 21 | 1 | 1140 | CLA | CBA-CGA-O2A-C1 |
| 24 | 2 | 4018 | BCR | C10-C11-C12-C13 |
| 21 | B | 1230 | CLA | C13-C15-C16-C17 |
| 21 | F | 1301 | CLA | C8-C10-C11-C12 |
| 21 | A | 1125 | CLA | O1D-CGD-O2D-CED |
| 21 | b | 1202 | CLA | O1D-CGD-O2D-CED |
| 25 | F | 5002 | LHG | C35-C36-C37-C38 |
| 26 | 1 | 5002 | LMG | C15-C16-C17-C18 |
| 21 | B | 1231 | CLA | C4-C3-C5-C6 |
| 21 | b | 1223 | CLA | C4-C3-C5-C6 |
| 21 | A | 1108 | CLA | C2-C3-C5-C6 |
| 21 | b | 1204 | CLA | C2-C3-C5-C6 |
| 21 | b | 1214 | CLA | C2-C3-C5-C6 |
| 21 | 1 | 1119 | CLA | C2-C3-C5-C6 |
| 25 | B | 5006 | LHG | C23-C24-C25-C26 |
| 26 | 0 | 5001 | LMG | C28-C29-C30-C31 |
| 21 | 1 | 1111 | CLA | C10-C11-C12-C13 |
| 21 | A | 1106 | CLA | O1A-CGA-O2A-C1 |
| 21 | 0 | 1503 | CLA | O1A-CGA-O2A-C1 |
| 26 | b | 5007 | LMG | C21-C22-C23-C24 |
| 21 | A | 1112 | CLA | C16-C17-C18-C20 |
| 21 | j | 1303 | CLA | C6-C7-C8-C10 |
| 21 | 1 | 1103 | CLA | C16-C17-C18-C19 |
| 21 | 0 | 1503 | CLA | C16-C17-C18-C20 |
| 25 | B | 5004 | LHG | C30-C31-C32-C33 |
| 21 | b | 1237 | CLA | C13-C15-C16-C17 |
| 21 | 2 | 1204 | CLA | C15-C16-C17-C18 |
| 21 | 2 | 1225 | CLA | C13-C15-C16-C17 |
| 21 | 2 | 1229 | CLA | C8-C10-C11-C12 |
| 21 | A | 1117 | CLA | CBA-CGA-O2A-C1 |
| 21 | B | 1226 | CLA | CBA-CGA-O2A-C1 |
| 21 | 2 | 1217 | CLA | CBA-CGA-O2A-C1 |
| 25 | 1 | 5007 | LHG | C24-C23-O8-C6 |
| 21 | 2 | 1210 | CLA | C2C-C3C-CAC-CBC |
| 26 | a | 5002 | LMG | C34-C35-C36-C37 |
| 26 | 1 | 5004 | LMG | C16-C17-C18-C19 |
| 26 | 0 | 5001 | LMG | C18-C19-C20-C21 |
| 21 | A | 1105 | CLA | C3A-C2A-CAA-CBA |
| 21 | A | 1106 | CLA | C3A-C2A-CAA-CBA |
| 21 | A | 1140 | CLA | C3A-C2A-CAA-CBA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | A | 1801 | CLA | C3A-C2A-CAA-CBA |
| 21 | B | 1218 | CLA | C3A-C2A-CAA-CBA |
| 21 | 1 | 1119 | CLA | C3A-C2A-CAA-CBA |
| 21 | 1 | 1127 | CLA | C3A-C2A-CAA-CBA |
| 21 | 1 | 1128 | CLA | C3A-C2A-CAA-CBA |
| 25 | a | 5003 | LHG | C30-C31-C32-C33 |
| 25 | 1 | 5003 | LHG | C33-C34-C35-C36 |
| 26 | b | 5002 | LMG | C11-C12-C13-C14 |
| 26 | 0 | 5001 | LMG | C24-C25-C26-C27 |
| 31 | L | 5002 | SQD | C35-C36-C37-C38 |
| 31 | 0 | 5005 | SQD | C29-C30-C31-C32 |
| 24 | A | 4003 | BCR | C15-C16-C17-C18 |
| 24 | b | 4005 | BCR | C13-C14-C15-C16 |
| 24 | j | 4013 | BCR | C19-C20-C21-C22 |
| 24 | 1 | 4002 | BCR | C15-C16-C17-C18 |
| 24 | 1 | 4012 | BCR | C13-C14-C15-C16 |
| 24 | h | 4018 | BCR | C19-C20-C21-C22 |
| 28 | B | 4011 | 45D | C25-C29-C31-C33 |
| 34 | j | 4015 | ZEX | C29-C30-C31-C32 |
| 25 | 2 | 5004 | LHG | C35-C36-C37-C38 |
| 26 | 1 | 5002 | LMG | C30-C31-C32-C33 |
| 31 | F | 5001 | SQD | C13-C14-C15-C16 |
| 21 | B | 1222 | CLA | O1A-CGA-O2A-C1 |
| 25 | 1 | 5007 | LHG | C13-C14-C15-C16 |
| 26 | A | 5004 | LMG | C14-C15-C16-C17 |
| 26 | B | 5002 | LMG | C15-C16-C17-C18 |
| 31 | F | 5001 | SQD | C9-C10-C11-C12 |
| 21 | B | 1229 | CLA | C16-C17-C18-C20 |
| 21 | b | 1240 | CLA | C16-C17-C18-C19 |
| 21 | A | 1140 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1801 | CLA | CBA-CGA-O2A-C1 |
| 21 | 1 | 1011 | CLA | CBA-CGA-O2A-C1 |
| 25 | 1 | 5001 | LHG | C25-C26-C27-C28 |
| 21 | B | 1220 | CLA | C5-C6-C7-C8 |
| 21 | B | 1223 | CLA | C13-C15-C16-C17 |
| 21 | a | 1116 | CLA | C5-C6-C7-C8 |
| 25 | A | 5005 | LHG | C4-C5-C6-O8 |
| 25 | A | 5006 | LHG | C4-C5-C6-O8 |
| 25 | a | 5001 | LHG | C4-C5-C6-O8 |
| 25 | a | 5007 | LHG | C4-C5-C6-O8 |
| 25 | l | 5001 | LHG | C4-C5-C6-O8 |
| 26 | 0 | 5001 | LMG | C7-C8-C9-O8 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 31 | b | 5006 | SQD | C44-C45-C46-O48 |
| 25 | l | 5003 | LHG | C27-C28-C29-C30 |
| 25 | l | 5002 | LHG | C31-C32-C33-C34 |
| 25 | b | 5004 | LHG | C7-C8-C9-C10 |
| 25 | A | 5005 | LHG | C33-C34-C35-C36 |
| 31 | L | 5002 | SQD | C11-C10-C9-C8 |
| 35 | 1 | 6001 | LMT | C2-C3-C4-C5 |
| 21 | 1 | 1127 | CLA | C13-C15-C16-C17 |
| 22 | a | 2001 | PQN | C25-C26-C27-C28 |
| 31 | f | 5001 | SQD | C25-C26-C27-C28 |
| 21 | j | 1302 | CLA | C3-C5-C6-C7 |
| 21 | 0 | 1502 | CLA | C3-C5-C6-C7 |
| 25 | F | 5002 | LHG | C10-C11-C12-C13 |
| 25 | a | 5005 | LHG | C35-C36-C37-C38 |
| 35 | 0 | 6001 | LMT | C5-C6-C7-C8 |
| 21 | 0 | 1502 | CLA | O1A-CGA-O2A-C1 |
| 21 | A | 1122 | CLA | C4-C3-C5-C6 |
| 21 | B | 1214 | CLA | C4-C3-C5-C6 |
| 21 | J | 1303 | CLA | C4-C3-C5-C6 |
| 21 | b | 1210 | CLA | C4-C3-C5-C6 |
| 21 | 1 | 1132 | CLA | C4-C3-C5-C6 |
| 21 | 2 | 1023 | CLA | C4-C3-C5-C6 |
| 21 | A | 1118 | CLA | CBA-CGA-O2A-C1 |
| 21 | A | 1112 | CLA | C16-C17-C18-C19 |
| 21 | A | 1801 | CLA | C16-C17-C18-C20 |
| 21 | b | 1228 | CLA | C16-C17-C18-C19 |
| 21 | j | 1303 | CLA | C6-C7-C8-C9 |
| 26 | a | 5002 | LMG | C42-C43-C44-C45 |
| 26 | 2 | 5002 | LMG | C32-C33-C34-C35 |
| 25 | a | 5007 | LHG | C11-C10-C9-C8 |
| 21 | B | 1227 | CLA | C5-C6-C7-C8 |
| 25 | A | 5003 | LHG | C4-O6-P-O3 |
| 25 | 1 | 5007 | LHG | C10-C11-C12-C13 |
| 21 | b | 1221 | CLA | O1D-CGD-O2D-CED |
| 21 | A | 1104 | CLA | C3-C5-C6-C7 |
| 21 | b | 1211 | CLA | C3-C5-C6-C7 |
| 21 | B | 1228 | CLA | C2A-CAA-CBA-CGA |
| 21 | a | 1113 | CLA | C2A-CAA-CBA-CGA |
| 21 | 1 | 1119 | CLA | C2A-CAA-CBA-CGA |
| 25 | l | 5001 | LHG | O1-C1-C2-O2 |
| 25 | l | 5002 | LHG | O1-C1-C2-O2 |
| 21 | A | 1103 | CLA | C10-C11-C12-C13 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 31 | L | 5002 | SQD | C27-C28-C29-C30 |
| 37 | L | 5004 | DGD | CFB-CGB-CHB-CIB |
| 25 | A | 5007 | LHG | O6-C4-C5-O7 |
| 25 | B | 5004 | LHG | O6-C4-C5-O7 |
| 25 | b | 5004 | LHG | O6-C4-C5-O7 |
| 25 | l | 5001 | LHG | O6-C4-C5-O7 |
| 21 | B | 1211 | CLA | O1A-CGA-O2A-C1 |
| 21 | B | 1240 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1116 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1129 | CLA | O1A-CGA-O2A-C1 |
| 21 | 2 | 1203 | CLA | O1A-CGA-O2A-C1 |
| 21 | A | 1104 | CLA | C16-C17-C18-C19 |
| 21 | a | 1115 | CLA | C16-C17-C18-C20 |
| 21 | b | 1203 | CLA | C16-C17-C18-C19 |
| 21 | A | 1135 | CLA | C10-C11-C12-C13 |
| 21 | B | 1221 | CLA | C8-C10-C11-C12 |
| 21 | a | 1126 | CLA | C15-C16-C17-C18 |
| 31 | F | 5001 | SQD | C11-C10-C9-C8 |
| 25 | 0 | 5004 | LHG | O8-C23-C24-C25 |
| 31 | B | 5008 | SQD | O47-C7-C8-C9 |
| 31 | F | 5001 | SQD | C16-C17-C18-C19 |
| 21 | a | 1123 | CLA | O1D-CGD-O2D-CED |
| 21 | A | 1137 | CLA | C15-C16-C17-C18 |
| 21 | B | 1239 | CLA | C15-C16-C17-C18 |
| 21 | 1 | 1118 | CLA | O1A-CGA-O2A-C1 |
| 25 | 1 | 5001 | LHG | C26-C27-C28-C29 |
| 26 | b | 5007 | LMG | C24-C25-C26-C27 |
| 25 | A | 5001 | LHG | O7-C5-C6-O8 |
| 25 | A | 5005 | LHG | O7-C5-C6-O8 |
| 25 | A | 5007 | LHG | O7-C5-C6-O8 |
| 25 | l | 5003 | LHG | O7-C5-C6-O8 |
| 26 | b | 5005 | LMG | O7-C8-C9-O8 |
| 26 | 0 | 5001 | LMG | O7-C8-C9-O8 |
| 31 | b | 5006 | SQD | O6-C44-C45-O47 |
| 21 | A | 1131 | CLA | CBA-CGA-O2A-C1 |
| 21 | 1 | 1127 | CLA | CBA-CGA-O2A-C1 |
| 21 | 6 | 1301 | CLA | CBA-CGA-O2A-C1 |
| 21 | B | 1218 | CLA | C15-C16-C17-C18 |
| 21 | a | 1119 | CLA | C5-C6-C7-C8 |
| 21 | b | 1210 | CLA | C13-C15-C16-C17 |
| 21 | b | 1229 | CLA | C5-C6-C7-C8 |
| 25 | A | 5006 | LHG | C32-C33-C34-C35 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 25 | 2 | 5004 | LHG | C15-C16-C17-C18 |
| 21 | A | 1103 | CLA | C16-C17-C18-C20 |
| 21 | b | 1021 | CLA | C16-C17-C18-C20 |
| 31 | 0 | 5005 | SQD | C30-C31-C32-C33 |
| 35 | 0 | 6001 | LMT | C3-C4-C5-C6 |
| 31 | F | 5001 | SQD | O5-C1-O6-C44 |
| 21 | A | 1107 | CLA | C8-C10-C11-C12 |
| 25 | 1 | 5004 | LHG | C1-C2-C3-O3 |
| 25 | 6 | 5001 | LHG | C1-C2-C3-O3 |
| 25 | 0 | 5004 | LHG | C1-C2-C3-O3 |
| 25 | a | 5005 | LHG | C19-C20-C21-C22 |
| 21 | L | 1501 | CLA | C4-C3-C5-C6 |
| 21 | a | 1126 | CLA | C4-C3-C5-C6 |
| 21 | 2 | 1214 | CLA | C4-C3-C5-C6 |
| 21 | A | 1131 | CLA | C2-C1-O2A-CGA |
| 21 | L | 1502 | CLA | C2-C1-O2A-CGA |
| 21 | a | 1801 | CLA | C2-C1-O2A-CGA |
| 21 | 2 | 1207 | CLA | C2-C1-O2A-CGA |
| 21 | 2 | 1208 | CLA | C2-C1-O2A-CGA |
| 21 | 2 | 1210 | CLA | C2-C1-O2A-CGA |
| 21 | A | 1109 | CLA | C11-C12-C13-C14 |
| 21 | A | 1115 | CLA | C11-C12-C13-C14 |
| 21 | A | 1117 | CLA | C11-C10-C8-C9 |
| 21 | A | 1123 | CLA | C11-C12-C13-C14 |
| 21 | A | 1124 | CLA | C11-C10-C8-C9 |
| 21 | A | 1801 | CLA | C6-C7-C8-C9 |
| 21 | B | 1205 | CLA | C11-C12-C13-C14 |
| 21 | B | 1208 | CLA | C11-C10-C8-C9 |
| 21 | B | 1219 | CLA | C11-C12-C13-C14 |
| 21 | B | 1224 | CLA | C11-C12-C13-C14 |
| 21 | B | 1226 | CLA | C11-C10-C8-C9 |
| 21 | B | 1228 | CLA | C11-C10-C8-C9 |
| 21 | B | 1231 | CLA | C11-C10-C8-C9 |
| 21 | B | 1235 | CLA | C11-C10-C8-C9 |
| 21 | B | 1230 | CLA | C11-C12-C13-C14 |
| 21 | F | 1302 | CLA | C14-C13-C15-C16 |
| 21 | J | 1302 | CLA | C11-C12-C13-C14 |
| 21 | J | 1303 | CLA | C6-C7-C8-C9 |
| 21 | a | 1104 | CLA | C11-C12-C13-C14 |
| 21 | a | 1126 | CLA | C11-C10-C8-C9 |
| 21 | a | 1138 | CLA | C14-C13-C15-C16 |
| 21 | b | 1021 | CLA | C14-C13-C15-C16 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | b | 1203 | CLA | C6-C7-C8-C9 |
| 21 | b | 1218 | CLA | C6-C7-C8-C9 |
| 21 | b | 1219 | CLA | C6-C7-C8-C9 |
| 21 | b | 1222 | CLA | C6-C7-C8-C9 |
| 21 | b | 1226 | CLA | C11-C12-C13-C14 |
| 21 | b | 1235 | CLA | C11-C10-C8-C9 |
| 21 | b | 1235 | CLA | C11-C12-C13-C14 |
| 21 | f | 1302 | CLA | C11-C12-C13-C14 |
| 21 | 1 | 1109 | CLA | C11-C12-C13-C14 |
| 21 | 1 | 1128 | CLA | C11-C12-C13-C14 |
| 21 | 1 | 1133 | CLA | C11-C12-C13-C14 |
| 21 | 2 | 1201 | CLA | C14-C13-C15-C16 |
| 21 | 2 | 1225 | CLA | C11-C12-C13-C14 |
| 21 | 2 | 1229 | CLA | C6-C7-C8-C9 |
| 21 | 0 | 1502 | CLA | C11-C10-C8-C9 |
| 25 | b | 5004 | LHG | C11-C10-C9-C8 |
| 21 | a | 1140 | CLA | C5-C6-C7-C8 |
| 21 | a | 1132 | CLA | C13-C15-C16-C17 |
| 21 | b | 1022 | CLA | C15-C16-C17-C18 |
| 25 | F | 5002 | LHG | C2-C3-O3-P |
| 25 | 1 | 5005 | LHG | C2-C3-O3-P |
| 25 | 0 | 5004 | LHG | C2-C3-O3-P |
| 21 | A | 1013 | CLA | O1A-CGA-O2A-C1 |
| 25 | b | 5004 | LHG | C31-C32-C33-C34 |
| 31 | b | 5006 | SQD | C25-C26-C27-C28 |
| 21 | A | 1131 | CLA | C2A-CAA-CBA-CGA |
| 21 | a | 1110 | CLA | C2A-CAA-CBA-CGA |
| 21 | A | 1132 | CLA | C16-C17-C18-C19 |
| 21 | K | 1402 | CLA | C16-C17-C18-C19 |
| 21 | a | 1121 | CLA | C16-C17-C18-C20 |
| 21 | a | 1128 | CLA | C16-C17-C18-C20 |
| 21 | 1 | 1111 | CLA | C16-C17-C18-C19 |
| 21 | 2 | 1021 | CLA | C16-C17-C18-C20 |
| 21 | 0 | 1502 | CLA | C16-C17-C18-C20 |
| 21 | a | 1012 | CLA | C3-C5-C6-C7 |
| 21 | 1 | 1011 | CLA | C3-C5-C6-C7 |
| 21 | 1 | 1130 | CLA | C3-C5-C6-C7 |
| 24 | B | 4005 | BCR | C23-C24-C25-C26 |
| 24 | B | 4005 | BCR | C23-C24-C25-C30 |
| 24 | a | 4001 | BCR | C23-C24-C25-C30 |
| 24 | a | 4003 | BCR | C23-C24-C25-C26 |
| 24 | a | 4008 | BCR | C1-C6-C7-C8 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 24 | a | 4008 | BCR | C5-C6-C7-C8 |
| 24 | b | 4010 | BCR | C23-C24-C25-C26 |
| 24 | b | 4010 | BCR | C23-C24-C25-C30 |
| 24 | b | 4014 | BCR | C23-C24-C25-C30 |
| 24 | f | 4016 | BCR | C1-C6-C7-C8 |
| 24 | f | 4016 | BCR | C5-C6-C7-C8 |
| 24 | k | 4001 | BCR | C1-C6-C7-C8 |
| 24 | k | 4001 | BCR | C5-C6-C7-C8 |
| 24 | l | 4022 | BCR | C5-C6-C7-C8 |
| 24 | 1 | 4003 | BCR | C23-C24-C25-C30 |
| 24 | 1 | 4012 | BCR | C23-C24-C25-C26 |
| 24 | 1 | 4012 | BCR | C23-C24-C25-C30 |
| 24 | 2 | 4011 | BCR | C1-C6-C7-C8 |
| 24 | 2 | 4011 | BCR | C5-C6-C7-C8 |
| 24 | 2 | 4010 | BCR | C23-C24-C25-C26 |
| 24 | 2 | 4010 | BCR | C23-C24-C25-C30 |
| 24 | 2 | 4017 | BCR | C5-C6-C7-C8 |
| 24 | 6 | 4016 | BCR | C1-C6-C7-C8 |
| 24 | 6 | 4016 | BCR | C5-C6-C7-C8 |
| 24 | h | 4018 | BCR | C5-C6-C7-C8 |
| 28 | h | 4020 | 45D | C03-C07-C19-C23 |
| 28 | h | 4020 | 45D | C15-C07-C19-C23 |
| 28 | h | 4020 | 45D | C04-C08-C20-C24 |
| 30 | M | 4021 | ECH | C23-C24-C25-C30 |
| 30 | b | 4006 | ECH | C23-C24-C25-C26 |
| 30 | 2 | 4006 | ECH | C5-C6-C7-C8 |
| 30 | 2 | 4006 | ECH | C23-C24-C25-C30 |
| 21 | A | 1105 | CLA | C5-C6-C7-C8 |
| 21 | B | 1216 | CLA | C5-C6-C7-C8 |
| 21 | B | 1226 | CLA | C15-C16-C17-C18 |
| 21 | b | 1210 | CLA | C5-C6-C7-C8 |
| 21 | 1 | 1103 | CLA | C13-C15-C16-C17 |
| 21 | 2 | 1201 | CLA | C15-C16-C17-C18 |
| 25 | a | 5005 | LHG | C16-C17-C18-C19 |
| 25 | a | 5001 | LHG | O8-C23-C24-C25 |
| 28 | h | 4020 | 45D | C20-C24-C26-C28 |
| 21 | A | 1107 | CLA | CBA-CGA-O2A-C1 |
| 21 | 2 | 1224 | CLA | CBA-CGA-O2A-C1 |
| 24 | A | 4003 | BCR | C7-C8-C9-C10 |
| 24 | B | 4004 | BCR | C17-C18-C19-C20 |
| 24 | B | 4014 | BCR | C7-C8-C9-C10 |
| 24 | 1 | 4008 | BCR | C17-C18-C19-C20 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 24 | 6 | 4016 | BCR | C17-C18-C19-C20 |
| 28 | h | 4020 | 45D | C32-C34-C36-C38 |
| 30 | 2 | 4006 | ECH | C7-C8-C9-C10 |
| 21 | A | 1012 | CLA | C10-C11-C12-C13 |
| 21 | b | 1230 | CLA | C10-C11-C12-C13 |
| 21 | 1 | 1109 | CLA | C15-C16-C17-C18 |
| 21 | 1 | 1115 | CLA | C15-C16-C17-C18 |
| 21 | 1 | 1120 | CLA | C13-C15-C16-C17 |
| 21 | 1 | 1121 | CLA | C5-C6-C7-C8 |
| 21 | 2 | 1023 | CLA | C10-C11-C12-C13 |
| 22 | b | 2002 | PQN | C23-C25-C26-C27 |
| 25 | M | 5001 | LHG | C19-C20-C21-C22 |
| 31 | 0 | 5005 | SQD | C27-C28-C29-C30 |
| 26 | 0 | 5001 | LMG | O9-C10-O7-C8 |
| 21 | A | 1129 | CLA | C10-C11-C12-C13 |
| 21 | 1 | 1011 | CLA | O1A-CGA-O2A-C1 |
| 21 | b | 1229 | CLA | C2C-C3C-CAC-CBC |
| 21 | a | 1121 | CLA | C16-C17-C18-C19 |
| 21 | b | 1221 | CLA | C16-C17-C18-C20 |
| 21 | 2 | 1221 | CLA | C16-C17-C18-C20 |
| 21 | b | 1212 | CLA | C3-C5-C6-C7 |
| 25 | A | 5005 | LHG | C10-C11-C12-C13 |
| 21 | A | 1111 | CLA | C13-C15-C16-C17 |
| 21 | l | 1501 | CLA | C8-C10-C11-C12 |
| 21 | 1 | 1013 | CLA | C5-C6-C7-C8 |
| 25 | A | 5007 | LHG | C9-C10-C11-C12 |
| 25 | a | 5005 | LHG | C26-C27-C28-C29 |
| 21 | B | 1224 | CLA | C15-C16-C17-C18 |
| 21 | B | 1230 | CLA | C10-C11-C12-C13 |
| 25 | A | 5001 | LHG | O6-C4-C5-C6 |
| 25 | B | 5006 | LHG | O6-C4-C5-C6 |
| 25 | l | 5003 | LHG | O6-C4-C5-C6 |
| 25 | a | 5005 | LHG | C10-C11-C12-C13 |
| 21 | A | 1102 | CLA | C11-C10-C8-C7 |
| 21 | A | 1103 | CLA | C11-C12-C13-C15 |
| 21 | A | 1103 | CLA | C12-C13-C15-C16 |
| 21 | A | 1106 | CLA | C12-C13-C15-C16 |
| 21 | A | 1107 | CLA | C12-C13-C15-C16 |
| 21 | A | 1109 | CLA | C11-C12-C13-C15 |
| 21 | A | 1113 | CLA | C12-C13-C15-C16 |
| 21 | A | 1114 | CLA | C12-C13-C15-C16 |
| 21 | A | 1123 | CLA | C11-C10-C8-C7 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | A | 1124 | CLA | C11-C12-C13-C15 |
| 21 | A | 1126 | CLA | C11-C12-C13-C15 |
| 21 | A | 1127 | CLA | C12-C13-C15-C16 |
| 21 | A | 1132 | CLA | C12-C13-C15-C16 |
| 21 | A | 1136 | CLA | C11-C12-C13-C15 |
| 21 | A | 1138 | CLA | C11-C10-C8-C7 |
| 21 | A | 1138 | CLA | C11-C12-C13-C15 |
| 21 | A | 1140 | CLA | C11-C12-C13-C15 |
| 21 | A | 1101 | CLA | C11-C12-C13-C15 |
| 21 | B | 1208 | CLA | C11-C10-C8-C7 |
| 21 | B | 1209 | CLA | C11-C10-C8-C7 |
| 21 | B | 1209 | CLA | C11-C12-C13-C15 |
| 21 | B | 1214 | CLA | C6-C7-C8-C10 |
| 21 | B | 1216 | CLA | C6-C7-C8-C10 |
| 21 | B | 1216 | CLA | C12-C13-C15-C16 |
| 21 | B | 1218 | CLA | C11-C10-C8-C7 |
| 21 | B | 1224 | CLA | C11-C12-C13-C15 |
| 21 | B | 1226 | CLA | C11-C10-C8-C7 |
| 21 | B | 1226 | CLA | C12-C13-C15-C16 |
| 21 | B | 1229 | CLA | C6-C7-C8-C10 |
| 21 | B | 1231 | CLA | C2-C3-C5-C6 |
| 21 | B | 1231 | CLA | C6-C7-C8-C10 |
| 21 | B | 1231 | CLA | C11-C10-C8-C7 |
| 21 | B | 1235 | CLA | C11-C10-C8-C7 |
| 21 | B | 1238 | CLA | C11-C10-C8-C7 |
| 21 | B | 1239 | CLA | C6-C7-C8-C10 |
| 21 | B | 1240 | CLA | C11-C10-C8-C7 |
| 21 | B | 1207 | CLA | C11-C12-C13-C15 |
| 21 | B | 1230 | CLA | C6-C7-C8-C10 |
| 21 | F | 1302 | CLA | C12-C13-C15-C16 |
| 21 | J | 1302 | CLA | C11-C12-C13-C15 |
| 21 | K | 1401 | CLA | C6-C7-C8-C10 |
| 21 | L | 1501 | CLA | C2-C3-C5-C6 |
| 21 | L | 1501 | CLA | C12-C13-C15-C16 |
| 21 | L | 1502 | CLA | C12-C13-C15-C16 |
| 21 | a | 1011 | CLA | C11-C10-C8-C7 |
| 21 | a | 1103 | CLA | C11-C12-C13-C15 |
| 21 | a | 1104 | CLA | C11-C10-C8-C7 |
| 21 | a | 1109 | CLA | C12-C13-C15-C16 |
| 21 | a | 1110 | CLA | C11-C10-C8-C7 |
| 21 | a | 1111 | CLA | C11-C12-C13-C15 |
| 21 | a | 1118 | CLA | C11-C10-C8-C7 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | a | 1119 | CLA | C11-C10-C8-C7 |
| 21 | a | 1122 | CLA | C11-C10-C8-C7 |
| 21 | a | 1126 | CLA | C11-C10-C8-C7 |
| 21 | a | 1128 | CLA | C6-C7-C8-C10 |
| 21 | a | 1128 | CLA | C11-C12-C13-C15 |
| 21 | a | 1135 | CLA | C11-C10-C8-C7 |
| 21 | b | 1021 | CLA | C12-C13-C15-C16 |
| 21 | b | 1202 | CLA | C11-C12-C13-C15 |
| 21 | b | 1206 | CLA | C6-C7-C8-C10 |
| 21 | b | 1206 | CLA | C11-C10-C8-C7 |
| 21 | b | 1207 | CLA | C11-C12-C13-C15 |
| 21 | b | 1209 | CLA | C6-C7-C8-C10 |
| 21 | b | 1210 | CLA | C2-C3-C5-C6 |
| 21 | b | 1214 | CLA | C6-C7-C8-C10 |
| 21 | b | 1221 | CLA | C6-C7-C8-C10 |
| 21 | b | 1235 | CLA | C11-C10-C8-C7 |
| 21 | b | 1235 | CLA | C11-C12-C13-C15 |
| 21 | b | 1230 | CLA | C11-C10-C8-C7 |
| 21 | f | 1302 | CLA | C11-C10-C8-C7 |
| 21 | l | 1503 | CLA | C12-C13-C15-C16 |
| 21 | 1 | 1116 | CLA | C6-C7-C8-C10 |
| 21 | 1 | 1126 | CLA | C12-C13-C15-C16 |
| 21 | 1 | 1131 | CLA | C12-C13-C15-C16 |
| 21 | 1 | 1132 | CLA | C2-C3-C5-C6 |
| 21 | 1 | 1133 | CLA | C11-C10-C8-C7 |
| 21 | 1 | 1012 | CLA | C11-C12-C13-C15 |
| 21 | 2 | 1021 | CLA | C6-C7-C8-C10 |
| 21 | 2 | 1206 | CLA | C12-C13-C15-C16 |
| 21 | 2 | 1225 | CLA | C6-C7-C8-C10 |
| 21 | 2 | 1225 | CLA | C12-C13-C15-C16 |
| 21 | 2 | 1229 | CLA | C6-C7-C8-C10 |
| 21 | 0 | 1502 | CLA | C11-C10-C8-C7 |
| 22 | 1 | 2001 | PQN | C21-C22-C23-C25 |
| 26 | 2 | 5002 | LMG | C24-C25-C26-C27 |
| 21 | A | 1102 | CLA | C5-C6-C7-C8 |
| 21 | A | 1123 | CLA | C13-C15-C16-C17 |
| 21 | A | 1125 | CLA | C13-C15-C16-C17 |
| 24 | B | 4010 | BCR | C19-C20-C21-C22 |
| 24 | 2 | 4005 | BCR | C13-C14-C15-C16 |
| 24 | 2 | 4017 | BCR | C19-C20-C21-C22 |
| 24 | h | 4018 | BCR | C9-C10-C11-C12 |
| 21 | A | 1133 | CLA | C16-C17-C18-C19 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | a | 1127 | CLA | C16-C17-C18-C19 |
| 21 | b | 1232 | CLA | C16-C17-C18-C20 |
| 21 | 1 | 1103 | CLA | C16-C17-C18-C20 |
| 26 | B | 5002 | LMG | C16-C17-C18-C19 |
| 25 | l | 5004 | LHG | O9-C7-O7-C5 |
| 25 | A | 5005 | LHG | C24-C23-O8-C6 |
| 25 | A | 5003 | LHG | C35-C36-C37-C38 |
| 21 | L | 1503 | CLA | C13-C15-C16-C17 |
| 21 | a | 1127 | CLA | O1A-CGA-O2A-C1 |
| 21 | a | 1129 | CLA | C2A-CAA-CBA-CGA |
| 21 | b | 1201 | CLA | C2A-CAA-CBA-CGA |
| 21 | 1 | 1801 | CLA | C2A-CAA-CBA-CGA |
| 26 | 0 | 5001 | LMG | C11-C10-O7-C8 |
| 21 | A | 1128 | CLA | C10-C11-C12-C13 |
| 21 | b | 1240 | CLA | C5-C6-C7-C8 |
| 21 | 1 | 1140 | CLA | C15-C16-C17-C18 |
| 25 | A | 5006 | LHG | C11-C12-C13-C14 |
| 21 | B | 1231 | CLA | C16-C17-C18-C19 |
| 21 | b | 1207 | CLA | CBA-CGA-O2A-C1 |
| 21 | A | 1116 | CLA | CAA-CBA-CGA-O2A |
| 21 | 2 | 1224 | CLA | CAA-CBA-CGA-O2A |
| 26 | a | 5004 | LMG | O7-C10-C11-C12 |
| 25 | A | 5003 | LHG | C31-C32-C33-C34 |
| 25 | a | 5007 | LHG | C24-C25-C26-C27 |
| 25 | l | 5004 | LHG | C35-C36-C37-C38 |
| 25 | 1 | 5001 | LHG | C17-C18-C19-C20 |
| 25 | A | 5006 | LHG | C24-C25-C26-C27 |
| 25 | 0 | 5004 | LHG | C16-C17-C18-C19 |
| 21 | A | 1113 | CLA | C8-C10-C11-C12 |
| 21 | A | 1115 | CLA | C10-C11-C12-C13 |
| 21 | a | 1136 | CLA | C8-C10-C11-C12 |
| 21 | A | 1102 | CLA | CAD-CBD-CGD-O2D |
| 21 | A | 1103 | CLA | CAD-CBD-CGD-O2D |
| 21 | A | 1801 | CLA | CAD-CBD-CGD-O2D |
| 21 | B | 1202 | CLA | CAD-CBD-CGD-O2D |
| 21 | K | 1402 | CLA | CAD-CBD-CGD-O2D |
| 21 | a | 1124 | CLA | CAD-CBD-CGD-O2D |
| 21 | a | 1137 | CLA | CAD-CBD-CGD-O2D |
| 21 | 1 | 1124 | CLA | CAD-CBD-CGD-O2D |
| 21 | 2 | 1216 | CLA | CAD-CBD-CGD-O2D |
| 21 | 2 | 1217 | CLA | CAD-CBD-CGD-O2D |
| 21 | 2 | 1226 | CLA | CAD-CBD-CGD-O2D |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 31 | b | 5006 | SQD | C27-C28-C29-C30 |
| 21 | A | 1116 | CLA | C13-C15-C16-C17 |
| 21 | B | 1208 | CLA | C10-C11-C12-C13 |
| 21 | 1 | 1109 | CLA | C8-C10-C11-C12 |
| 35 | L | 6001 | LMT | C4B-C5B-C6B-O6B |
| 26 | K | 5009 | LMG | C30-C31-C32-C33 |
| 21 | 2 | 1205 | CLA | C4-C3-C5-C6 |
| 21 | A | 1012 | CLA | C16-C17-C18-C20 |
| 25 | A | 5001 | LHG | C17-C18-C19-C20 |
| 37 | L | 5004 | DGD | C2A-C3A-C4A-C5A |
| 21 | b | 1203 | CLA | C15-C16-C17-C18 |
| 21 | b | 1219 | CLA | C5-C6-C7-C8 |
| 21 | A | 1136 | CLA | C2-C3-C5-C6 |
| 21 | 2 | 1205 | CLA | C2-C3-C5-C6 |
| 31 | b | 5006 | SQD | C19-C20-C21-C22 |
| 25 | l | 5002 | LHG | C4-C5-C6-O8 |
| 26 | A | 5002 | LMG | O1-C7-C8-C9 |
| 26 | A | 5008 | LMG | C7-C8-C9-O8 |
| 31 | B | 5008 | SQD | O6-C44-C45-C46 |
| 21 | A | 1107 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1127 | CLA | O1A-CGA-O2A-C1 |
| 25 | 1 | 5007 | LHG | O10-C23-O8-C6 |
| 31 | b | 5006 | SQD | C18-C19-C20-C21 |
| 31 | 0 | 5005 | SQD | C12-C13-C14-C15 |
| 25 | A | 5006 | LHG | O6-C4-C5-O7 |
| 25 | a | 5003 | LHG | O6-C4-C5-O7 |
| 25 | 1 | 5001 | LHG | O6-C4-C5-O7 |
| 21 | b | 1225 | CLA | C15-C16-C17-C18 |
| 22 | B | 2002 | PQN | C15-C16-C17-C18 |
| 21 | a | 1101 | CLA | CAA-CBA-CGA-O2A |
| 21 | b | 1215 | CLA | CAA-CBA-CGA-O2A |
| 21 | a | 1131 | CLA | O1D-CGD-O2D-CED |
| 21 | b | 1225 | CLA | O1D-CGD-O2D-CED |
| 31 | 0 | 5005 | SQD | C18-C19-C20-C21 |
| 21 | b | 1229 | CLA | C2A-CAA-CBA-CGA |
| 21 | 1 | 1116 | CLA | C2A-CAA-CBA-CGA |
| 21 | 1 | 1125 | CLA | C2A-CAA-CBA-CGA |
| 25 | B | 5006 | LHG | C28-C29-C30-C31 |
| 21 | B | 1021 | CLA | C16-C17-C18-C20 |
| 21 | a | 1011 | CLA | C16-C17-C18-C19 |
| 21 | a | 1135 | CLA | C16-C17-C18-C19 |
| 21 | a | 1135 | CLA | C16-C17-C18-C20 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | b | 1232 | CLA | C16-C17-C18-C19 |
| 21 | 1 | 1125 | CLA | C16-C17-C18-C19 |
| 21 | 0 | 1503 | CLA | C16-C17-C18-C19 |
| 21 | A | 1106 | CLA | CHA-CBD-CGD-O1D |
| 21 | A | 1111 | CLA | CHA-CBD-CGD-O1D |
| 21 | A | 1111 | CLA | CHA-CBD-CGD-O2D |
| 21 | A | 1113 | CLA | CHA-CBD-CGD-O2D |
| 21 | A | 1123 | CLA | CHA-CBD-CGD-O1D |
| 21 | A | 1123 | CLA | CHA-CBD-CGD-O2D |
| 21 | B | 1021 | CLA | CHA-CBD-CGD-O1D |
| 21 | B | 1204 | CLA | CHA-CBD-CGD-O2D |
| 21 | B | 1205 | CLA | CHA-CBD-CGD-O1D |
| 21 | B | 1205 | CLA | CHA-CBD-CGD-O2D |
| 21 | B | 1209 | CLA | CHA-CBD-CGD-O1D |
| 21 | B | 1211 | CLA | CHA-CBD-CGD-O1D |
| 21 | B | 1212 | CLA | CHA-CBD-CGD-O2D |
| 21 | B | 1213 | CLA | CHA-CBD-CGD-O1D |
| 21 | B | 1213 | CLA | CHA-CBD-CGD-O2D |
| 21 | B | 1218 | CLA | CHA-CBD-CGD-O1D |
| 21 | B | 1218 | CLA | CHA-CBD-CGD-O2D |
| 21 | B | 1220 | CLA | CHA-CBD-CGD-O1D |
| 21 | B | 1220 | CLA | CHA-CBD-CGD-O2D |
| 21 | B | 1221 | CLA | CHA-CBD-CGD-O1D |
| 21 | B | 1226 | CLA | CHA-CBD-CGD-O1D |
| 21 | B | 1226 | CLA | CHA-CBD-CGD-O2D |
| 21 | B | 1227 | CLA | CHA-CBD-CGD-O1D |
| 21 | B | 1227 | CLA | CHA-CBD-CGD-O2D |
| 21 | B | 1240 | CLA | CHA-CBD-CGD-O1D |
| 21 | B | 1240 | CLA | CHA-CBD-CGD-O2D |
| 21 | a | 1102 | CLA | CHA-CBD-CGD-O1D |
| 21 | a | 1102 | CLA | CHA-CBD-CGD-O2D |
| 21 | a | 1103 | CLA | CHA-CBD-CGD-O2D |
| 21 | a | 1126 | CLA | CHA-CBD-CGD-O1D |
| 21 | a | 1128 | CLA | CHA-CBD-CGD-O1D |
| 21 | a | 1128 | CLA | CHA-CBD-CGD-O2D |
| 21 | a | 1138 | CLA | CHA-CBD-CGD-O1D |
| 21 | a | 1138 | CLA | CHA-CBD-CGD-O2D |
| 21 | b | 1237 | CLA | CHA-CBD-CGD-O2D |
| 21 | b | 1202 | CLA | CHA-CBD-CGD-O1D |
| 21 | b | 1202 | CLA | CHA-CBD-CGD-O2D |
| 21 | b | 1213 | CLA | CHA-CBD-CGD-O1D |
| 21 | b | 1220 | CLA | CHA-CBD-CGD-O1D |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | b | 1220 | CLA | CHA-CBD-CGD-O2D |
| 21 | b | 1221 | CLA | CHA-CBD-CGD-O1D |
| 21 | b | 1221 | CLA | CHA-CBD-CGD-O2D |
| 21 | b | 1226 | CLA | CHA-CBD-CGD-O1D |
| 21 | b | 1226 | CLA | CHA-CBD-CGD-O2D |
| 21 | b | 1230 | CLA | CHA-CBD-CGD-O1D |
| 21 | b | 1230 | CLA | CHA-CBD-CGD-O2D |
| 21 | 1 | 1501 | CLA | CHA-CBD-CGD-O1D |
| 21 | 1 | 1501 | CLA | CHA-CBD-CGD-O2D |
| 21 | 1 | 1103 | CLA | CHA-CBD-CGD-O2D |
| 21 | 1 | 1113 | CLA | CHA-CBD-CGD-O1D |
| 21 | 1 | 1113 | CLA | CHA-CBD-CGD-O2D |
| 21 | 1 | 1127 | CLA | CHA-CBD-CGD-O1D |
| 21 | 1 | 1127 | CLA | CHA-CBD-CGD-O2D |
| 21 | 1 | 1134 | CLA | CHA-CBD-CGD-O1D |
| 21 | 1 | 1134 | CLA | CHA-CBD-CGD-O2D |
| 21 | 1 | 1137 | CLA | CHA-CBD-CGD-O2D |
| 21 | 1 | 1138 | CLA | CHA-CBD-CGD-O1D |
| 21 | 1 | 1138 | CLA | CHA-CBD-CGD-O2D |
| 21 | 2 | 1023 | CLA | CHA-CBD-CGD-O2D |
| 21 | 2 | 1202 | CLA | CHA-CBD-CGD-O1D |
| 21 | 2 | 1202 | CLA | CHA-CBD-CGD-O2D |
| 21 | 2 | 1205 | CLA | CHA-CBD-CGD-O1D |
| 21 | 2 | 1205 | CLA | CHA-CBD-CGD-O2D |
| 21 | 2 | 1210 | CLA | CHA-CBD-CGD-O1D |
| 21 | 2 | 1212 | CLA | CHA-CBD-CGD-O1D |
| 21 | 2 | 1212 | CLA | CHA-CBD-CGD-O2D |
| 21 | 2 | 1220 | CLA | CHA-CBD-CGD-O1D |
| 21 | 2 | 1220 | CLA | CHA-CBD-CGD-O2D |
| 21 | 2 | 1221 | CLA | CHA-CBD-CGD-O1D |
| 21 | 2 | 1239 | CLA | CHA-CBD-CGD-O2D |
| 21 | 2 | 1230 | CLA | CHA-CBD-CGD-O1D |
| 21 | 2 | 1230 | CLA | CHA-CBD-CGD-O2D |
| 21 | 8 | 1402 | CLA | CHA-CBD-CGD-O1D |
| 25 | A | 5006 | LHG | C17-C18-C19-C20 |
| 25 | 1 | 5007 | LHG | C35-C36-C37-C38 |
| 21 | a | 1130 | CLA | C3-C5-C6-C7 |
| 21 | A | 1118 | CLA | O1A-CGA-O2A-C1 |
| 21 | A | 1140 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1140 | CLA | O1A-CGA-O2A-C1 |
| 21 | 2 | 1217 | CLA | O1A-CGA-O2A-C1 |
| 25 | L | 5005 | LHG | C35-C36-C37-C38 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | 1 | 1123 | CLA | C13-C15-C16-C17 |
| 35 | F | 6001 | LMT | C11-C10-C9-C8 |
| 25 | L | 5005 | LHG | O7-C5-C6-O8 |
| 25 | 1 | 5005 | LHG | O7-C5-C6-O8 |
| 26 | A | 5008 | LMG | O7-C8-C9-O8 |
| 31 | B | 5008 | SQD | O6-C44-C45-O47 |
| 31 | b | 5006 | SQD | O47-C45-C46-O48 |
| 31 | f | 5001 | SQD | O47-C45-C46-O48 |
| 21 | F | 1302 | CLA | C13-C15-C16-C17 |
| 21 | A | 1117 | CLA | O1A-CGA-O2A-C1 |
| 21 | A | 1131 | CLA | O1A-CGA-O2A-C1 |
| 21 | a | 1801 | CLA | O1A-CGA-O2A-C1 |
| 21 | 2 | 1224 | CLA | O1A-CGA-O2A-C1 |
| 21 | 6 | 1301 | CLA | O1A-CGA-O2A-C1 |
| 25 | B | 5006 | LHG | C34-C35-C36-C37 |
| 21 | B | 1230 | CLA | C16-C17-C18-C19 |
| 21 | b | 1227 | CLA | C16-C17-C18-C20 |
| 25 | A | 5001 | LHG | O1-C1-C2-O2 |
| 25 | L | 5005 | LHG | O1-C1-C2-O2 |
| 21 | A | 1132 | CLA | C3-C5-C6-C7 |
| 21 | a | 1140 | CLA | C10-C11-C12-C13 |
| 21 | 1 | 1127 | CLA | C5-C6-C7-C8 |
| 21 | A | 1123 | CLA | C4-C3-C5-C6 |
| 21 | A | 1136 | CLA | C4-C3-C5-C6 |
| 21 | a | 1123 | CLA | C4-C3-C5-C6 |
| 37 | L | 5004 | DGD | C6B-C7B-C8B-C9B |
| 21 | B | 1226 | CLA | O1A-CGA-O2A-C1 |
| 25 | B | 5006 | LHG | C19-C20-C21-C22 |
| 21 | b | 1226 | CLA | C8-C10-C11-C12 |
| 21 | B | 1202 | CLA | CAA-CBA-CGA-O2A |
| 21 | A | 1113 | CLA | C14-C13-C15-C16 |
| 21 | A | 1114 | CLA | C14-C13-C15-C16 |
| 21 | B | 1206 | CLA | C11-C10-C8-C9 |
| 21 | B | 1216 | CLA | C6-C7-C8-C9 |
| 21 | F | 1301 | CLA | C11-C10-C8-C9 |
| 21 | J | 1303 | CLA | C14-C13-C15-C16 |
| 21 | a | 1127 | CLA | C11-C12-C13-C14 |
| 21 | b | 1206 | CLA | C6-C7-C8-C9 |
| 21 | b | 1236 | CLA | C6-C7-C8-C9 |
| 21 | l | 1503 | CLA | C11-C10-C8-C9 |
| 21 | 1 | 1111 | CLA | C11-C12-C13-C14 |
| 21 | 1 | 1118 | CLA | C14-C13-C15-C16 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | 1 | 1012 | CLA | C11-C12-C13-C14 |
| 21 | 2 | 1229 | CLA | C11-C10-C8-C9 |
| 21 | 2 | 1229 | CLA | C11-C12-C13-C14 |
| 22 | a | 2001 | PQN | C19-C18-C20-C21 |
| 31 | 0 | 5005 | SQD | C13-C14-C15-C16 |
| 21 | b | 1222 | CLA | CBD-CGD-O2D-CED |
| 21 | B | 1023 | CLA | C2C-C3C-CAC-CBC |
| 26 | a | 5004 | LMG | C32-C33-C34-C35 |
| 31 | b | 5006 | SQD | C4-C5-C6-S |
| 21 | b | 1240 | CLA | C16-C17-C18-C20 |
| 31 | F | 5001 | SQD | O47-C7-C8-C9 |
| 21 | B | 1210 | CLA | C5-C6-C7-C8 |
| 25 | 1 | 5007 | LHG | C26-C27-C28-C29 |
| 24 | B | 4018 | BCR | C37-C22-C23-C24 |
| 24 | b | 4004 | BCR | C7-C8-C9-C34 |
| 24 | 1 | 4007 | BCR | C11-C12-C13-C35 |
| 30 | B | 4006 | ECH | C37-C22-C23-C24 |
| 30 | i | 4020 | ECH | C36-C18-C19-C20 |
| 21 | A | 1118 | CLA | C8-C10-C11-C12 |
| 21 | B | 1224 | CLA | C13-C15-C16-C17 |
| 21 | 2 | 1221 | CLA | C15-C16-C17-C18 |
| 24 | A | 4007 | BCR | C21-C22-C23-C24 |
| 24 | a | 4008 | BCR | C21-C22-C23-C24 |
| 24 | 1 | 4007 | BCR | C7-C8-C9-C10 |
| 21 | a | 1104 | CLA | C3-C5-C6-C7 |
| 31 | F | 5001 | SQD | C33-C34-C35-C36 |
| 21 | A | 1011 | CLA | C1A-C2A-CAA-CBA |
| 21 | B | 1204 | CLA | C1A-C2A-CAA-CBA |
| 21 | B | 1212 | CLA | C1A-C2A-CAA-CBA |
| 21 | 1 | 1119 | CLA | C1A-C2A-CAA-CBA |
| 21 | 2 | 1204 | CLA | C1A-C2A-CAA-CBA |
| 21 | A | 1106 | CLA | C16-C17-C18-C19 |
| 21 | 1 | 1120 | CLA | C16-C17-C18-C20 |
| 22 | 2 | 2002 | PQN | C26-C27-C28-C30 |
| 21 | 2 | 1226 | CLA | C5-C6-C7-C8 |
| 21 | A | 1109 | CLA | C2-C1-O2A-CGA |
| 21 | B | 1219 | CLA | C2-C1-O2A-CGA |
| 21 | B | 1225 | CLA | C2-C1-O2A-CGA |
| 21 | 1 | 1135 | CLA | C2-C1-O2A-CGA |
| 21 | 2 | 1021 | CLA | C2-C1-O2A-CGA |
| 35 | 1 | 6001 | LMT | C3-C4-C5-C6 |
| 24 | b | 4010 | BCR | C19-C20-C21-C22 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 24 | l | 4022 | BCR | C9-C10-C11-C12 |
| 21 | a | 1012 | CLA | C10-C11-C12-C13 |
| 25 | A | 5005 | LHG | C3-O3-P-O6 |
| 25 | a | 5001 | LHG | C3-O3-P-O6 |
| 25 | b | 5004 | LHG | C4-O6-P-O3 |
| 25 | l | 5005 | LHG | C4-O6-P-O3 |
| 25 | 6 | 5001 | LHG | C4-O6-P-O3 |
| 26 | K | 5009 | LMG | C4-C5-C6-O5 |
| 31 | F | 5001 | SQD | C26-C27-C28-C29 |
| 21 | A | 1801 | CLA | C4-C3-C5-C6 |
| 21 | a | 1136 | CLA | C4-C3-C5-C6 |
| 21 | b | 1203 | CLA | C4-C3-C5-C6 |
| 25 | B | 5004 | LHG | C5-C4-O6-P |
| 25 | l | 5001 | LHG | C5-C4-O6-P |
| 25 | 1 | 5007 | LHG | C2-C3-O3-P |
| 21 | b | 1223 | CLA | C2-C3-C5-C6 |
| 31 | 0 | 5005 | SQD | C19-C20-C21-C22 |
| 35 | 0 | 6001 | LMT | C5'-C4'-O1B-C1B |
| 25 | A | 5001 | LHG | C4-O6-P-O5 |
| 25 | A | 5003 | LHG | C3-O3-P-O5 |
| 25 | A | 5003 | LHG | C4-O6-P-O5 |
| 25 | A | 5007 | LHG | C3-O3-P-O4 |
| 25 | A | 5007 | LHG | C4-O6-P-O4 |
| 25 | B | 5004 | LHG | C3-O3-P-O4 |
| 25 | B | 5006 | LHG | C4-O6-P-O5 |
| 25 | F | 5002 | LHG | C3-O3-P-O4 |
| 25 | L | 5005 | LHG | C3-O3-P-O5 |
| 25 | a | 5001 | LHG | C4-O6-P-O4 |
| 25 | a | 5003 | LHG | C3-O3-P-O5 |
| 25 | a | 5005 | LHG | C3-O3-P-O5 |
| 25 | l | 5001 | LHG | C3-O3-P-O5 |
| 25 | l | 5003 | LHG | C3-O3-P-O4 |
| 25 | l | 5004 | LHG | C3-O3-P-O4 |
| 25 | l | 5002 | LHG | C3-O3-P-O5 |
| 25 | 1 | 5005 | LHG | C3-O3-P-O4 |
| 25 | 1 | 5007 | LHG | C4-O6-P-O4 |
| 25 | 1 | 5003 | LHG | C3-O3-P-O5 |
| 25 | 2 | 5004 | LHG | C3-O3-P-O5 |
| 25 | 2 | 5004 | LHG | C4-O6-P-O4 |
| 25 | 0 | 5002 | LHG | C3-O3-P-O4 |
| 25 | 0 | 5004 | LHG | C3-O3-P-O5 |
| 21 | A | 1104 | CLA | C16-C17-C18-C20 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | A | 1122 | CLA | C11-C12-C13-C14 |
| 21 | A | 1137 | CLA | C16-C17-C18-C19 |
| 21 | a | 1138 | CLA | C16-C17-C18-C19 |
| 21 | b | 1205 | CLA | C16-C17-C18-C20 |
| 21 | b | 1214 | CLA | C16-C17-C18-C20 |
| 21 | f | 1302 | CLA | C16-C17-C18-C20 |
| 22 | A | 2001 | PQN | C26-C27-C28-C30 |
| 26 | A | 5002 | LMG | C10-C11-C12-C13 |
| 25 | 1 | 5005 | LHG | C9-C10-C11-C12 |
| 21 | a | 1134 | CLA | O2A-C1-C2-C3 |
| 21 | b | 1206 | CLA | C13-C15-C16-C17 |
| 21 | l | 1503 | CLA | C13-C15-C16-C17 |
| 21 | 2 | 1213 | CLA | CBA-CGA-O2A-C1 |
| 25 | A | 5006 | LHG | O6-C4-C5-C6 |
| 25 | a | 5003 | LHG | O6-C4-C5-C6 |
| 25 | l | 5001 | LHG | O6-C4-C5-C6 |
| 25 | A | 5005 | LHG | C15-C16-C17-C18 |
| 25 | a | 5001 | LHG | C31-C32-C33-C34 |
| 26 | 1 | 5002 | LMG | C32-C33-C34-C35 |
| 26 | 1 | 5004 | LMG | C22-C23-C24-C25 |
| 21 | 2 | 1207 | CLA | C5-C6-C7-C8 |
| 21 | A | 1120 | CLA | C2A-CAA-CBA-CGA |
| 21 | A | 1134 | CLA | C2A-CAA-CBA-CGA |
| 21 | 2 | 1235 | CLA | C2A-CAA-CBA-CGA |
| 21 | 1 | 1134 | CLA | C3-C5-C6-C7 |
| 26 | B | 5005 | LMG | C30-C31-C32-C33 |
| 31 | B | 5008 | SQD | C18-C19-C20-C21 |
| 21 | B | 1212 | CLA | C6-C7-C8-C10 |
| 21 | a | 1122 | CLA | C16-C17-C18-C20 |
| 21 | 2 | 1205 | CLA | C16-C17-C18-C20 |
| 21 | 2 | 1210 | CLA | C16-C17-C18-C19 |
| 21 | 2 | 1210 | CLA | C4C-C3C-CAC-CBC |
| 21 | A | 1111 | CLA | CAD-CBD-CGD-O1D |
| 21 | A | 1113 | CLA | CAD-CBD-CGD-O1D |
| 21 | A | 1125 | CLA | CAD-CBD-CGD-O1D |
| 21 | B | 1210 | CLA | CAD-CBD-CGD-O1D |
| 21 | B | 1211 | CLA | CAD-CBD-CGD-O1D |
| 21 | B | 1220 | CLA | CAD-CBD-CGD-O1D |
| 21 | B | 1226 | CLA | CAD-CBD-CGD-O1D |
| 21 | B | 1234 | CLA | CAD-CBD-CGD-O1D |
| 21 | a | 1801 | CLA | CAD-CBD-CGD-O1D |
| 21 | b | 1202 | CLA | CAD-CBD-CGD-O1D |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | b | 1210 | CLA | CAD-CBD-CGD-O1D |
| 21 | b | 1211 | CLA | CAD-CBD-CGD-O1D |
| 21 | b | 1217 | CLA | CAD-CBD-CGD-O1D |
| 21 | b | 1220 | CLA | CAD-CBD-CGD-O1D |
| 21 | b | 1226 | CLA | CAD-CBD-CGD-O1D |
| 21 | l | 1501 | CLA | CAD-CBD-CGD-O1D |
| 21 | 1 | 1103 | CLA | CAD-CBD-CGD-O1D |
| 21 | 1 | 1113 | CLA | CAD-CBD-CGD-O1D |
| 21 | 1 | 1123 | CLA | CAD-CBD-CGD-O1D |
| 21 | 1 | 1125 | CLA | CAD-CBD-CGD-O1D |
| 21 | 1 | 1137 | CLA | C2-C3-C5-C6 |
| 21 | 2 | 1202 | CLA | CAD-CBD-CGD-O1D |
| 21 | 2 | 1210 | CLA | CAD-CBD-CGD-O1D |
| 21 | 2 | 1212 | CLA | CAD-CBD-CGD-O1D |
| 21 | 2 | 1220 | CLA | CAD-CBD-CGD-O1D |
| 21 | 7 | 1302 | CLA | CAD-CBD-CGD-O1D |
| 21 | 7 | 1303 | CLA | CAD-CBD-CGD-O1D |
| 21 | A | 1101 | CLA | CAA-CBA-CGA-O2A |
| 21 | A | 1140 | CLA | C5-C6-C7-C8 |
| 21 | B | 1221 | CLA | C10-C11-C12-C13 |
| 21 | B | 1238 | CLA | C10-C11-C12-C13 |
| 21 | a | 1112 | CLA | C15-C16-C17-C18 |
| 21 | a | 1127 | CLA | C5-C6-C7-C8 |
| 21 | b | 1202 | CLA | C8-C10-C11-C12 |
| 26 | b | 5005 | LMG | C14-C15-C16-C17 |
| 31 | B | 5008 | SQD | C34-C35-C36-C37 |
| 25 | A | 5005 | LHG | C7-C8-C9-C10 |
| 26 | A | 5008 | LMG | C33-C34-C35-C36 |
| 21 | A | 1112 | CLA | CBA-CGA-O2A-C1 |
| 21 | A | 1119 | CLA | CBA-CGA-O2A-C1 |
| 21 | 1 | 1139 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1127 | CLA | C13-C15-C16-C17 |
| 21 | a | 1140 | CLA | C15-C16-C17-C18 |
| 25 | 1 | 5001 | LHG | C9-C10-C11-C12 |
| 21 | a | 1119 | CLA | C16-C17-C18-C19 |
| 21 | A | 1104 | CLA | C12-C13-C15-C16 |
| 21 | A | 1106 | CLA | C6-C7-C8-C10 |
| 21 | A | 1107 | CLA | C6-C7-C8-C10 |
| 21 | A | 1112 | CLA | C11-C12-C13-C15 |
| 21 | A | 1114 | CLA | C6-C7-C8-C10 |
| 21 | A | 1116 | CLA | C11-C10-C8-C7 |
| 21 | A | 1118 | CLA | C11-C12-C13-C15 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | A | 1120 | CLA | C11-C10-C8-C7 |
| 21 | A | 1125 | CLA | C12-C13-C15-C16 |
| 21 | A | 1129 | CLA | C6-C7-C8-C10 |
| 21 | A | 1134 | CLA | C12-C13-C15-C16 |
| 21 | A | 1130 | CLA | C11-C10-C8-C7 |
| 21 | B | 1201 | CLA | C11-C10-C8-C7 |
| 21 | B | 1206 | CLA | C11-C10-C8-C7 |
| 21 | B | 1208 | CLA | C12-C13-C15-C16 |
| 21 | B | 1219 | CLA | C3A-C2A-CAA-CBA |
| 21 | B | 1221 | CLA | C11-C12-C13-C15 |
| 21 | B | 1230 | CLA | C11-C12-C13-C15 |
| 21 | F | 1301 | CLA | C12-C13-C15-C16 |
| 21 | K | 1401 | CLA | C12-C13-C15-C16 |
| 21 | K | 1402 | CLA | C12-C13-C15-C16 |
| 21 | L | 1502 | CLA | C6-C7-C8-C10 |
| 21 | a | 1106 | CLA | C12-C13-C15-C16 |
| 21 | a | 1112 | CLA | C11-C12-C13-C15 |
| 21 | a | 1117 | CLA | C6-C7-C8-C10 |
| 21 | a | 1123 | CLA | C2-C3-C5-C6 |
| 21 | a | 1135 | CLA | C12-C13-C15-C16 |
| 21 | a | 1139 | CLA | C12-C13-C15-C16 |
| 21 | a | 1012 | CLA | C11-C12-C13-C15 |
| 21 | b | 1213 | CLA | C11-C12-C13-C15 |
| 21 | b | 1216 | CLA | C6-C7-C8-C10 |
| 21 | b | 1220 | CLA | C11-C12-C13-C15 |
| 21 | b | 1227 | CLA | C11-C12-C13-C15 |
| 21 | b | 1231 | CLA | C6-C7-C8-C10 |
| 21 | b | 1232 | CLA | C11-C12-C13-C15 |
| 21 | b | 1236 | CLA | C6-C7-C8-C10 |
| 21 | b | 1230 | CLA | C6-C7-C8-C10 |
| 21 | l | 1501 | CLA | C11-C10-C8-C7 |
| 21 | 1 | 1103 | CLA | C6-C7-C8-C10 |
| 21 | 1 | 1117 | CLA | C6-C7-C8-C10 |
| 21 | 1 | 1120 | CLA | C6-C7-C8-C10 |
| 21 | 1 | 1128 | CLA | C11-C10-C8-C7 |
| 21 | 1 | 1136 | CLA | C6-C7-C8-C10 |
| 21 | 1 | 1138 | CLA | C11-C10-C8-C7 |
| 21 | 1 | 1139 | CLA | C12-C13-C15-C16 |
| 21 | 2 | 1023 | CLA | C6-C7-C8-C10 |
| 21 | 2 | 1214 | CLA | C6-C7-C8-C10 |
| 21 | 2 | 1229 | CLA | C11-C10-C8-C7 |
| 21 | 0 | 1501 | CLA | C11-C12-C13-C15 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 25 | B | 5006 | LHG | O6-C4-C5-O7 |
| 25 | 2 | 5004 | LHG | O6-C4-C5-O7 |
| 25 | 0 | 5004 | LHG | O6-C4-C5-O7 |
| 25 | F | 5002 | LHG | C11-C10-C9-C8 |
| 26 | a | 5002 | LMG | C33-C34-C35-C36 |
| 21 | A | 1013 | CLA | C3-C5-C6-C7 |
| 21 | b | 1219 | CLA | C3-C5-C6-C7 |
| 21 | b | 1207 | CLA | O1A-CGA-O2A-C1 |
| 25 | 1 | 5003 | LHG | C31-C32-C33-C34 |
| 21 | a | 1011 | CLA | CAA-CBA-CGA-O2A |
| 21 | b | 1202 | CLA | CAA-CBA-CGA-O2A |
| 25 | B | 5006 | LHG | O8-C23-C24-C25 |
| 25 | 1 | 5005 | LHG | C27-C28-C29-C30 |
| 21 | B | 1202 | CLA | C8-C10-C11-C12 |
| 21 | a | 1139 | CLA | C10-C11-C12-C13 |
| 21 | A | 1112 | CLA | O1A-CGA-O2A-C1 |
| 25 | A | 5005 | LHG | O10-C23-O8-C6 |
| 21 | j | 1302 | CLA | C8-C10-C11-C12 |
| 22 | A | 2001 | PQN | C23-C25-C26-C27 |
| 21 | a | 1119 | CLA | C2A-CAA-CBA-CGA |
| 21 | a | 1126 | CLA | C2A-CAA-CBA-CGA |
| 21 | b | 1023 | CLA | C2A-CAA-CBA-CGA |
| 21 | 2 | 1239 | CLA | C2A-CAA-CBA-CGA |
| 21 | 0 | 1501 | CLA | C16-C17-C18-C20 |
| 25 | b | 5004 | LHG | C35-C36-C37-C38 |
| 25 | 1 | 5001 | LHG | C19-C20-C21-C22 |
| 25 | 2 | 5004 | LHG | C25-C26-C27-C28 |
| 26 | A | 5008 | LMG | C15-C16-C17-C18 |
| 21 | A | 1127 | CLA | CAA-CBA-CGA-O2A |
| 25 | a | 5003 | LHG | C4-C5-C6-O8 |
| 26 | 1 | 5002 | LMG | C34-C35-C36-C37 |
| 26 | 1 | 5004 | LMG | C14-C15-C16-C17 |
| 31 | L | 5001 | SQD | O6-C44-C45-C46 |
| 31 | L | 5001 | SQD | O49-C7-O47-C45 |
| 25 | A | 5006 | LHG | O7-C5-C6-O8 |
| 25 | a | 5007 | LHG | O7-C5-C6-O8 |
| 25 | b | 5004 | LHG | O7-C5-C6-O8 |
| 25 | 1 | 5007 | LHG | O7-C5-C6-O8 |
| 31 | L | 5001 | SQD | O47-C45-C46-O48 |
| 31 | 0 | 5005 | SQD | O6-C44-C45-O47 |
| 26 | 0 | 5001 | LMG | C34-C35-C36-C37 |
| 21 | 2 | 1215 | CLA | CAA-CBA-CGA-O2A |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | K | 1402 | CLA | C16-C17-C18-C20 |
| 21 | b | 1228 | CLA | C16-C17-C18-C20 |
| 21 | 1 | 1126 | CLA | C16-C17-C18-C20 |
| 21 | b | 1208 | CLA | C5-C6-C7-C8 |
| 21 | 1 | 1013 | CLA | C8-C10-C11-C12 |
| 25 | l | 5004 | LHG | C11-C10-C9-C8 |
| 25 | l | 5002 | LHG | C24-C25-C26-C27 |
| 25 | L | 5005 | LHG | C2-C3-O3-P |
| 25 | M | 5001 | LHG | C5-C4-O6-P |
| 25 | l | 5002 | LHG | C35-C36-C37-C38 |
| 21 | A | 1138 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1139 | CLA | O1A-CGA-O2A-C1 |
| 21 | B | 1205 | CLA | C4-C3-C5-C6 |
| 21 | B | 1219 | CLA | C4-C3-C5-C6 |
| 25 | A | 5001 | LHG | C31-C32-C33-C34 |
| 21 | L | 1503 | CLA | C5-C6-C7-C8 |
| 21 | b | 1222 | CLA | C5-C6-C7-C8 |
| 21 | A | 1103 | CLA | C11-C12-C13-C14 |
| 21 | A | 1105 | CLA | C11-C10-C8-C9 |
| 21 | A | 1109 | CLA | C6-C7-C8-C9 |
| 21 | A | 1123 | CLA | C14-C13-C15-C16 |
| 21 | A | 1126 | CLA | C11-C12-C13-C14 |
| 21 | A | 1136 | CLA | C11-C12-C13-C14 |
| 21 | A | 1138 | CLA | C11-C12-C13-C14 |
| 21 | B | 1205 | CLA | C14-C13-C15-C16 |
| 21 | B | 1213 | CLA | C11-C12-C13-C14 |
| 21 | B | 1239 | CLA | C6-C7-C8-C9 |
| 21 | B | 1230 | CLA | C6-C7-C8-C9 |
| 21 | L | 1501 | CLA | C14-C13-C15-C16 |
| 21 | a | 1104 | CLA | C11-C10-C8-C9 |
| 21 | a | 1109 | CLA | C14-C13-C15-C16 |
| 21 | a | 1118 | CLA | C11-C10-C8-C9 |
| 21 | a | 1122 | CLA | C11-C10-C8-C9 |
| 21 | a | 1126 | CLA | C6-C7-C8-C9 |
| 21 | a | 1101 | CLA | C6-C7-C8-C9 |
| 21 | b | 1023 | CLA | C6-C7-C8-C9 |
| 21 | b | 1206 | CLA | C11-C10-C8-C9 |
| 21 | b | 1208 | CLA | C11-C10-C8-C9 |
| 21 | l | 1503 | CLA | C11-C12-C13-C14 |
| 21 | 1 | 1120 | CLA | C6-C7-C8-C9 |
| 21 | 1 | 1120 | CLA | C14-C13-C15-C16 |
| 21 | 1 | 1123 | CLA | C11-C12-C13-C14 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | 1 | 1101 | CLA | C11-C12-C13-C14 |
| 21 | 2 | 1021 | CLA | C6-C7-C8-C9 |
| 21 | 2 | 1208 | CLA | C6-C7-C8-C9 |
| 21 | 2 | 1239 | CLA | C6-C7-C8-C9 |
| 25 | A | 5001 | LHG | C12-C13-C14-C15 |
| 21 | 1 | 1132 | CLA | C3-C5-C6-C7 |
| 21 | 1 | 1127 | CLA | CAA-CBA-CGA-O2A |
| 21 | A | 1112 | CLA | C5-C6-C7-C8 |
| 25 | l | 5003 | LHG | C24-C25-C26-C27 |
| 24 | A | 4019 | BCR | C18-C19-C20-C21 |
| 24 | a | 4001 | BCR | C18-C19-C20-C21 |
| 24 | a | 4019 | BCR | C18-C19-C20-C21 |
| 24 | k | 4001 | BCR | C18-C19-C20-C21 |
| 24 | 1 | 4001 | BCR | C18-C19-C20-C21 |
| 24 | 2 | 4018 | BCR | C18-C19-C20-C21 |
| 24 | 9 | 4021 | BCR | C18-C19-C20-C21 |
| 30 | b | 4006 | ECH | C18-C19-C20-C21 |
| 24 | a | 4007 | BCR | C19-C20-C21-C22 |
| 25 | l | 5004 | LHG | C26-C27-C28-C29 |
| 21 | B | 1217 | CLA | C3-C5-C6-C7 |
| 21 | 2 | 1206 | CLA | C15-C16-C17-C18 |
| 21 | f | 1302 | CLA | C16-C17-C18-C19 |
| 25 | A | 5007 | LHG | C33-C34-C35-C36 |
| 25 | a | 5007 | LHG | C34-C35-C36-C37 |
| 25 | 1 | 5003 | LHG | C11-C10-C9-C8 |
| 24 | a | 4002 | BCR | C17-C18-C19-C20 |
| 36 | I | 4020 | EQ3 | C7-C8-C9-C10 |
| 21 | j | 1302 | CLA | CAA-CBA-CGA-O2A |
| 21 | a | 1011 | CLA | C5-C6-C7-C8 |
| 21 | b | 1230 | CLA | C13-C15-C16-C17 |
| 35 | l | 6001 | LMT | C2B-C1B-O1B-C4' |
| 25 | a | 5005 | LHG | C25-C26-C27-C28 |
| 21 | B | 1207 | CLA | C3-C5-C6-C7 |
| 21 | b | 1235 | CLA | C3-C5-C6-C7 |
| 21 | 1 | 1102 | CLA | C3-C5-C6-C7 |
| 21 | a | 1118 | CLA | C4-C3-C5-C6 |
| 21 | A | 1124 | CLA | O1A-CGA-O2A-C1 |
| 21 | a | 1011 | CLA | O1A-CGA-O2A-C1 |
| 21 | 2 | 1213 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1123 | CLA | C5-C6-C7-C8 |
| 21 | a | 1118 | CLA | C16-C17-C18-C19 |
| 25 | A | 5005 | LHG | C26-C27-C28-C29 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 25 | 1 | 5001 | LHG | C13-C14-C15-C16 |
| 35 | 1 | 6001 | LMT | C11-C10-C9-C8 |
| 31 | f | 5001 | SQD | C11-C10-C9-C8 |
| 21 | a | 1134 | CLA | C1-C2-C3-C4 |
| 21 | k | 1402 | CLA | C1-C2-C3-C4 |
| 21 | A | 1119 | CLA | O1A-CGA-O2A-C1 |
| 21 | B | 1206 | CLA | C3-C5-C6-C7 |
| 25 | B | 5004 | LHG | C26-C27-C28-C29 |
| 25 | 1 | 5007 | LHG | C15-C16-C17-C18 |
| 21 | A | 1127 | CLA | C13-C15-C16-C17 |
| 21 | B | 1217 | CLA | C15-C16-C17-C18 |
| 21 | 2 | 1021 | CLA | C13-C15-C16-C17 |
| 26 | 1 | 5002 | LMG | C9-C8-O7-C10 |
| 25 | B | 5004 | LHG | O6-C4-C5-C6 |
| 21 | b | 1225 | CLA | CBD-CGD-O2D-CED |
| 21 | L | 1502 | CLA | C2A-CAA-CBA-CGA |
| 21 | 2 | 1217 | CLA | C2A-CAA-CBA-CGA |
| 21 | A | 1105 | CLA | C2-C1-O2A-CGA |
| 21 | A | 1121 | CLA | C2-C1-O2A-CGA |
| 21 | A | 1012 | CLA | C2-C1-O2A-CGA |
| 21 | F | 1301 | CLA | C2-C1-O2A-CGA |
| 21 | K | 1401 | CLA | C2-C1-O2A-CGA |
| 21 | a | 1011 | CLA | C2-C1-O2A-CGA |
| 21 | b | 1202 | CLA | C2-C1-O2A-CGA |
| 21 | b | 1232 | CLA | C2-C1-O2A-CGA |
| 21 | f | 1302 | CLA | C2-C1-O2A-CGA |
| 21 | 1 | 1131 | CLA | C2-C1-O2A-CGA |
| 21 | 2 | 1218 | CLA | C2-C1-O2A-CGA |
| 21 | 2 | 1224 | CLA | C2-C1-O2A-CGA |
| 21 | A | 1137 | CLA | C16-C17-C18-C20 |
| 21 | B | 1231 | CLA | C16-C17-C18-C20 |
| 21 | a | 1128 | CLA | C16-C17-C18-C19 |
| 31 | f | 5001 | SQD | C7-C8-C9-C10 |
| 25 | 0 | 5004 | LHG | C12-C13-C14-C15 |
| 31 | L | 5001 | SQD | C8-C7-O47-C45 |
| 25 | 1 | 5001 | LHG | C35-C36-C37-C38 |
| 25 | a | 5003 | LHG | C7-C8-C9-C10 |
| 25 | a | 5003 | LHG | C2-C3-O3-P |
| 25 | a | 5007 | LHG | C5-C4-O6-P |
| 25 | 1 | 5003 | LHG | C2-C3-O3-P |
| 25 | 6 | 5001 | LHG | C2-C3-O3-P |
| 24 | a | 4001 | BCR | C15-C16-C17-C18 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 24 | b | 4005 | BCR | C15-C16-C17-C18 |
| 25 | A | 5001 | LHG | O6-C4-C5-O7 |
| 25 | l | 5003 | LHG | O6-C4-C5-O7 |
| 21 | 2 | 1021 | CLA | C15-C16-C17-C18 |
| 21 | a | 1109 | CLA | C4-C3-C5-C6 |
| 21 | 2 | 1207 | CLA | C4-C3-C5-C6 |
| 31 | L | 5001 | SQD | C9-C10-C11-C12 |
| 24 | a | 4002 | BCR | C1-C6-C7-C8 |
| 24 | a | 4002 | BCR | C5-C6-C7-C8 |
| 24 | a | 4002 | BCR | C23-C24-C25-C26 |
| 24 | a | 4002 | BCR | C23-C24-C25-C30 |
| 24 | a | 4008 | BCR | C23-C24-C25-C26 |
| 24 | b | 4017 | BCR | C5-C6-C7-C8 |
| 24 | i | 4018 | BCR | C1-C6-C7-C8 |
| 24 | 1 | 4003 | BCR | C23-C24-C25-C26 |
| 24 | 1 | 4019 | BCR | C5-C6-C7-C8 |
| 24 | 2 | 4017 | BCR | C1-C6-C7-C8 |
| 21 | 1 | 1011 | CLA | C5-C6-C7-C8 |
| 31 | F | 5001 | SQD | C7-C8-C9-C10 |
| 21 | A | 1118 | CLA | CAA-CBA-CGA-O2A |
| 21 | 1 | 1118 | CLA | CAA-CBA-CGA-O2A |
| 25 | 0 | 5004 | LHG | C34-C35-C36-C37 |
| 21 | A | 1012 | CLA | C16-C17-C18-C19 |
| 21 | b | 1215 | CLA | C16-C17-C18-C20 |
| 21 | b | 1227 | CLA | C16-C17-C18-C19 |
| 21 | 1 | 1117 | CLA | C16-C17-C18-C20 |
| 21 | B | 1212 | CLA | C3-C5-C6-C7 |
| 21 | b | 1229 | CLA | C3-C5-C6-C7 |
| 26 | 1 | 5004 | LMG | O6-C1-O1-C7 |
| 21 | b | 1022 | CLA | C2A-CAA-CBA-CGA |
| 21 | b | 1228 | CLA | C2A-CAA-CBA-CGA |
| 25 | l | 5002 | LHG | O7-C5-C6-O8 |
| 26 | A | 5004 | LMG | O1-C7-C8-O7 |
| 26 | 1 | 5002 | LMG | O7-C8-C9-O8 |
| 21 | b | 1021 | CLA | C15-C16-C17-C18 |
| 25 | A | 5003 | LHG | C15-C16-C17-C18 |
| 25 | A | 5001 | LHG | C3-O3-P-O6 |
| 25 | A | 5006 | LHG | C4-O6-P-O3 |
| 25 | M | 5001 | LHG | C3-O3-P-O6 |
| 25 | a | 5007 | LHG | C3-O3-P-O6 |
| 25 | b | 5004 | LHG | C3-O3-P-O6 |
| 25 | l | 5004 | LHG | C4-O6-P-O3 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 25 | 1 | 5001 | LHG | C3-O3-P-O6 |
| 25 | 6 | 5001 | LHG | C3-O3-P-O6 |
| 25 | 0 | 5004 | LHG | C4-O6-P-O3 |
| 25 | B | 5004 | LHG | C35-C36-C37-C38 |
| 25 | F | 5002 | LHG | C28-C29-C30-C31 |
| 26 | 2 | 5005 | LMG | C29-C30-C31-C32 |
| 21 | 1 | 1102 | CLA | C6-C7-C8-C9 |
| 25 | B | 5006 | LHG | C11-C10-C9-C8 |
| 26 | b | 5007 | LMG | C12-C13-C14-C15 |
| 31 | B | 5008 | SQD | C11-C10-C9-C8 |
| 25 | A | 5007 | LHG | C16-C17-C18-C19 |
| 25 | 0 | 5002 | LHG | C4-C5-C6-O8 |
| 21 | 1 | 1123 | CLA | C15-C16-C17-C18 |
| 21 | A | 1123 | CLA | C2-C3-C5-C6 |
| 21 | B | 1204 | CLA | C11-C10-C8-C7 |
| 21 | B | 1206 | CLA | C11-C12-C13-C15 |
| 21 | B | 1228 | CLA | C11-C10-C8-C7 |
| 21 | L | 1503 | CLA | C11-C10-C8-C7 |
| 21 | a | 1112 | CLA | C6-C7-C8-C10 |
| 21 | b | 1203 | CLA | C11-C10-C8-C7 |
| 21 | 1 | 1106 | CLA | C11-C10-C8-C7 |
| 21 | 1 | 1118 | CLA | C12-C13-C15-C16 |
| 21 | 1 | 1127 | CLA | C6-C7-C8-C10 |
| 21 | 1 | 1012 | CLA | C6-C7-C8-C10 |
| 21 | 1 | 1012 | CLA | C11-C10-C8-C7 |
| 21 | 2 | 1023 | CLA | C2-C3-C5-C6 |
| 21 | 2 | 1204 | CLA | C6-C7-C8-C10 |
| 21 | 2 | 1206 | CLA | C11-C12-C13-C15 |
| 26 | 1 | 5004 | LMG | C30-C31-C32-C33 |
| 21 | a | 1127 | CLA | CAA-CBA-CGA-O2A |
| 21 | B | 1230 | CLA | C3-C5-C6-C7 |
| 21 | A | 1104 | CLA | C14-C13-C15-C16 |
| 21 | A | 1112 | CLA | C11-C10-C8-C9 |
| 21 | A | 1114 | CLA | C6-C7-C8-C9 |
| 21 | A | 1120 | CLA | C11-C10-C8-C9 |
| 21 | B | 1226 | CLA | C6-C7-C8-C9 |
| 21 | K | 1402 | CLA | C14-C13-C15-C16 |
| 21 | a | 1112 | CLA | C11-C10-C8-C9 |
| 21 | a | 1133 | CLA | C11-C10-C8-C9 |
| 21 | a | 1136 | CLA | C11-C10-C8-C9 |
| 21 | b | 1216 | CLA | C6-C7-C8-C9 |
| 21 | b | 1232 | CLA | C11-C12-C13-C14 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | b | 1238 | CLA | C11-C10-C8-C9 |
| 21 | l | 1501 | CLA | C14-C13-C15-C16 |
| 21 | 1 | 1103 | CLA | C6-C7-C8-C9 |
| 21 | 1 | 1103 | CLA | C14-C13-C15-C16 |
| 21 | 1 | 1109 | CLA | C11-C10-C8-C9 |
| 21 | 1 | 1117 | CLA | C6-C7-C8-C9 |
| 21 | 2 | 1210 | CLA | C11-C12-C13-C14 |
| 21 | 2 | 1215 | CLA | C11-C10-C8-C9 |
| 24 | i | 4018 | BCR | C19-C20-C21-C22 |
| 24 | 1 | 4012 | BCR | C19-C20-C21-C22 |
| 21 | A | 1136 | CLA | C16-C17-C18-C19 |
| 21 | B | 1212 | CLA | C6-C7-C8-C9 |
| 21 | B | 1230 | CLA | C16-C17-C18-C20 |
| 21 | a | 1138 | CLA | C16-C17-C18-C20 |
| 21 | 2 | 1210 | CLA | C16-C17-C18-C20 |
| 25 | M | 5001 | LHG | C33-C34-C35-C36 |
| 26 | a | 5002 | LMG | C14-C15-C16-C17 |
| 26 | b | 5005 | LMG | C30-C31-C32-C33 |
| 21 | A | 1138 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1119 | CLA | C8-C10-C11-C12 |
| 21 | b | 1022 | CLA | C13-C15-C16-C17 |
| 21 | b | 1222 | CLA | O1D-CGD-O2D-CED |
| 25 | 1 | 5005 | LHG | C30-C31-C32-C33 |
| 26 | A | 5008 | LMG | C4-C5-C6-O5 |
| 21 | a | 1013 | CLA | C2A-CAA-CBA-CGA |
| 21 | j | 1302 | CLA | C2A-CAA-CBA-CGA |
| 21 | 2 | 1201 | CLA | C2A-CAA-CBA-CGA |
| 25 | A | 5005 | LHG | C9-C10-C11-C12 |
| 21 | A | 1122 | CLA | C11-C12-C13-C15 |
| 21 | a | 1011 | CLA | C16-C17-C18-C20 |
| 21 | a | 1120 | CLA | C6-C7-C8-C9 |
| 21 | 2 | 1215 | CLA | C11-C12-C13-C15 |
| 21 | 2 | 1238 | CLA | C16-C17-C18-C19 |
| 25 | l | 5002 | LHG | C15-C16-C17-C18 |
| 21 | A | 1124 | CLA | CBA-CGA-O2A-C1 |
| 25 | a | 5005 | LHG | O1-C1-C2-C3 |
| 21 | f | 1301 | CLA | O1A-CGA-O2A-C1 |
| 28 | h | 4020 | 45D | C20-C24-C26-C30 |
| 21 | a | 1117 | CLA | C10-C11-C12-C13 |
| 21 | A | 1109 | CLA | C4-C3-C5-C6 |
| 21 | a | 1122 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1101 | CLA | CAA-CBA-CGA-O2A |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | A | 1801 | CLA | C2-C3-C5-C6 |
| 21 | b | 1229 | CLA | C2-C3-C5-C6 |
| 21 | b | 1214 | CLA | C16-C17-C18-C19 |
| 21 | b | 1222 | CLA | C16-C17-C18-C19 |
| 21 | 1 | 1138 | CLA | C11-C12-C13-C15 |
| 21 | 2 | 1205 | CLA | C16-C17-C18-C19 |
| 21 | a | 1011 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1120 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1122 | CLA | CBA-CGA-O2A-C1 |
| 21 | f | 1301 | CLA | CBA-CGA-O2A-C1 |
| 21 | 2 | 1223 | CLA | CBA-CGA-O2A-C1 |
| 26 | b | 5005 | LMG | C29-C28-O8-C9 |
| 31 | F | 5001 | SQD | C24-C23-O48-C46 |
| 21 | a | 1120 | CLA | O1A-CGA-O2A-C1 |
| 31 | f | 5001 | SQD | C33-C34-C35-C36 |
| 26 | b | 5002 | LMG | C40-C41-C42-C43 |
| 21 | A | 1117 | CLA | C15-C16-C17-C18 |
| 21 | 1 | 1132 | CLA | C13-C15-C16-C17 |
| 21 | 2 | 1223 | CLA | O1A-CGA-O2A-C1 |
| 26 | b | 5005 | LMG | O10-C28-O8-C9 |
| 26 | b | 5005 | LMG | C39-C40-C41-C42 |
| 21 | A | 1136 | CLA | C2A-CAA-CBA-CGA |
| 21 | 2 | 1022 | CLA | C2A-CAA-CBA-CGA |
| 21 | b | 1205 | CLA | C16-C17-C18-C19 |
| 21 | A | 1011 | CLA | CAA-CBA-CGA-O1A |
| 24 | A | 4007 | BCR | C9-C10-C11-C12 |
| 24 | A | 4008 | BCR | C19-C20-C21-C22 |
| 24 | B | 4004 | BCR | C19-C20-C21-C22 |
| 24 | J | 4013 | BCR | C13-C14-C15-C16 |
| 24 | a | 4007 | BCR | C15-C16-C17-C18 |
| 24 | 2 | 4005 | BCR | C15-C16-C17-C18 |
| 28 | h | 4020 | 45D | C36-C38-C42-C41 |
| 25 | a | 5007 | LHG | C35-C36-C37-C38 |
| 21 | 2 | 1225 | CLA | C3-C5-C6-C7 |
| 26 | a | 5004 | LMG | C33-C34-C35-C36 |
| 25 | F | 5002 | LHG | C9-C10-C11-C12 |
| 25 | 0 | 5002 | LHG | O6-C4-C5-O7 |
| 25 | A | 5003 | LHG | C27-C28-C29-C30 |
| 25 | l | 5002 | LHG | C14-C15-C16-C17 |
| 24 | I | 4018 | BCR | C10-C11-C12-C13 |
| 24 | a | 4008 | BCR | C10-C11-C12-C13 |
| 24 | 1 | 4012 | BCR | C10-C11-C12-C13 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 26 | 2 | 5005 | LMG | C10-C11-C12-C13 |
| 21 | 2 | 1221 | CLA | C16-C17-C18-C19 |
| 25 | 1 | 5001 | LHG | O8-C23-C24-C25 |
| 26 | 1 | 5004 | LMG | C33-C34-C35-C36 |
| 21 | B | 1224 | CLA | C4-C3-C5-C6 |
| 21 | a | 1105 | CLA | C4-C3-C5-C6 |
| 21 | b | 1229 | CLA | C4-C3-C5-C6 |
| 21 | 1 | 1103 | CLA | C4-C3-C5-C6 |
| 21 | A | 1132 | CLA | C2-C3-C5-C6 |
| 21 | a | 1126 | CLA | C2-C3-C5-C6 |
| 31 | F | 5001 | SQD | O10-C23-O48-C46 |
| 25 | 0 | 5002 | LHG | C15-C16-C17-C18 |
| 21 | B | 1218 | CLA | C8-C10-C11-C12 |
| 21 | B | 1224 | CLA | C5-C6-C7-C8 |
| 21 | a | 1011 | CLA | C10-C11-C12-C13 |
| 21 | f | 1302 | CLA | C10-C11-C12-C13 |
| 25 | A | 5005 | LHG | C19-C20-C21-C22 |
| 25 | 1 | 5005 | LHG | C26-C27-C28-C29 |
| 21 | A | 1011 | CLA | C2-C1-O2A-CGA |
| 21 | 1 | 1103 | CLA | C2-C1-O2A-CGA |
| 26 | b | 5002 | LMG | C22-C23-C24-C25 |
| 21 | a | 1122 | CLA | C16-C17-C18-C19 |
| 25 | A | 5006 | LHG | C27-C28-C29-C30 |
| 26 | 1 | 5004 | LMG | C2-C1-O1-C7 |
| 21 | B | 1224 | CLA | C8-C10-C11-C12 |
| 21 | L | 1501 | CLA | C2A-CAA-CBA-CGA |
| 21 | a | 1111 | CLA | C2A-CAA-CBA-CGA |
| 21 | l | 1503 | CLA | C2A-CAA-CBA-CGA |
| 37 | L | 5004 | DGD | O1G-C1G-C2G-O2G |
| 35 | l | 6001 | LMT | C5-C6-C7-C8 |
| 25 | a | 5005 | LHG | C31-C32-C33-C34 |
| 25 | M | 5001 | LHG | C2-C3-O3-P |
| 25 | l | 5004 | LHG | C5-C4-O6-P |
| 25 | 0 | 5002 | LHG | C11-C10-C9-C8 |
| 21 | A | 1102 | CLA | C3A-C2A-CAA-CBA |
| 21 | A | 1108 | CLA | C3A-C2A-CAA-CBA |
| 21 | B | 1228 | CLA | C3A-C2A-CAA-CBA |
| 21 | b | 1211 | CLA | C3A-C2A-CAA-CBA |
| 21 | b | 1214 | CLA | C3A-C2A-CAA-CBA |
| 21 | k | 1402 | CLA | C3A-C2A-CAA-CBA |
| 21 | 1 | 1013 | CLA | C3A-C2A-CAA-CBA |
| 21 | 8 | 1402 | CLA | C3A-C2A-CAA-CBA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | A | 1101 | CLA | C16-C17-C18-C20 |
| 21 | 1 | 1126 | CLA | CAA-CBA-CGA-O2A |
| 25 | 1 | 5001 | LHG | C31-C32-C33-C34 |
| 24 | A | 4012 | BCR | C19-C20-C21-C22 |
| 24 | 1 | 4007 | BCR | C15-C16-C17-C18 |
| 24 | 9 | 4021 | BCR | C19-C20-C21-C22 |
| 34 | 7 | 4015 | ZEX | C33-C34-C35-C15 |
| 21 | B | 1223 | CLA | O1A-CGA-O2A-C1 |
| 35 | 0 | 6001 | LMT | O1'-C1-C2-C3 |
| 37 | L | 5004 | DGD | C5B-C6B-C7B-C8B |
| 21 | B | 1211 | CLA | C4-C3-C5-C6 |
| 21 | a | 1131 | CLA | C4-C3-C5-C6 |
| 21 | 2 | 1022 | CLA | C4-C3-C5-C6 |
| 21 | 2 | 1229 | CLA | C2-C3-C5-C6 |
| 25 | F | 5002 | LHG | C15-C16-C17-C18 |
| 21 | A | 1103 | CLA | C11-C10-C8-C9 |
| 21 | A | 1105 | CLA | C14-C13-C15-C16 |
| 21 | A | 1111 | CLA | C11-C12-C13-C14 |
| 21 | A | 1121 | CLA | C11-C10-C8-C9 |
| 21 | A | 1125 | CLA | C11-C12-C13-C14 |
| 21 | A | 1126 | CLA | C11-C10-C8-C9 |
| 21 | A | 1133 | CLA | C6-C7-C8-C9 |
| 21 | A | 1137 | CLA | C14-C13-C15-C16 |
| 21 | B | 1201 | CLA | C14-C13-C15-C16 |
| 21 | B | 1204 | CLA | C6-C7-C8-C9 |
| 21 | B | 1218 | CLA | C6-C7-C8-C9 |
| 21 | B | 1219 | CLA | C11-C10-C8-C9 |
| 21 | B | 1234 | CLA | C11-C10-C8-C9 |
| 21 | K | 1402 | CLA | C11-C12-C13-C14 |
| 21 | a | 1121 | CLA | C11-C10-C8-C9 |
| 21 | a | 1131 | CLA | C11-C10-C8-C9 |
| 21 | a | 1133 | CLA | C14-C13-C15-C16 |
| 21 | a | 1135 | CLA | C11-C12-C13-C14 |
| 21 | a | 1139 | CLA | C6-C7-C8-C9 |
| 21 | b | 1229 | CLA | C6-C7-C8-C9 |
| 21 | b | 1238 | CLA | C14-C13-C15-C16 |
| 21 | 1 | 1132 | CLA | C14-C13-C15-C16 |
| 21 | 1 | 1140 | CLA | C11-C12-C13-C14 |
| 21 | 2 | 1221 | CLA | C14-C13-C15-C16 |
| 22 | b | 2002 | PQN | C24-C23-C25-C26 |
| 21 | B | 1225 | CLA | C16-C17-C18-C20 |
| 22 | A | 2001 | PQN | C26-C27-C28-C29 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 25 | a | 5007 | LHG | C14-C15-C16-C17 |
| 25 | A | 5007 | LHG | C27-C28-C29-C30 |
| 25 | 2 | 5004 | LHG | C16-C17-C18-C19 |
| 25 | A | 5005 | LHG | C30-C31-C32-C33 |
| 21 | b | 1229 | CLA | C10-C11-C12-C13 |
| 24 | f | 4016 | BCR | C35-C13-C14-C15 |
| 24 | l | 4022 | BCR | C11-C10-C9-C34 |
| 24 | 2 | 4011 | BCR | C16-C17-C18-C36 |
| 24 | 2 | 4018 | BCR | C20-C21-C22-C37 |
| 24 | 6 | 4016 | BCR | C35-C13-C14-C15 |
| 24 | 9 | 4021 | BCR | C35-C13-C14-C15 |
| 25 | A | 5001 | LHG | C4-C5-C6-O8 |
| 26 | b | 5005 | LMG | C7-C8-C9-O8 |
| 28 | B | 4011 | 45D | C28-C26-C30-C32 |
| 28 | B | 4011 | 45D | C39-C35-C37-C41 |
| 30 | B | 4006 | ECH | C11-C10-C9-C34 |
| 30 | B | 4006 | ECH | C35-C13-C14-C15 |
| 30 | M | 4021 | ECH | C11-C10-C9-C34 |
| 30 | b | 4011 | ECH | C16-C17-C18-C36 |
| 30 | b | 4006 | ECH | C11-C10-C9-C34 |
| 30 | m | 4021 | ECH | C11-C10-C9-C34 |
| 30 | 2 | 4006 | ECH | C11-C10-C9-C34 |
| 34 | F | 4016 | ZEX | C20-C13-C14-C15 |
| 36 | I | 4020 | EQ3 | C11-C10-C9-C34 |
| 25 | L | 5005 | LHG | C16-C17-C18-C19 |
| 25 | 0 | 5004 | LHG | C10-C11-C12-C13 |
| 26 | 2 | 5005 | LMG | C40-C41-C42-C43 |
| 21 | 2 | 1232 | CLA | C2A-CAA-CBA-CGA |
| 21 | A | 1132 | CLA | C5-C6-C7-C8 |
| 21 | 2 | 1239 | CLA | C15-C16-C17-C18 |
| 26 | 2 | 5005 | LMG | C30-C31-C32-C33 |
| 25 | a | 5003 | LHG | O10-C23-C24-C25 |
| 22 | B | 2002 | PQN | C26-C27-C28-C30 |
| 21 | A | 1012 | CLA | O2A-C1-C2-C3 |
| 21 | 1 | 1012 | CLA | O2A-C1-C2-C3 |
| 21 | B | 1223 | CLA | CBA-CGA-O2A-C1 |
| 25 | A | 5005 | LHG | C13-C14-C15-C16 |
| 24 | b | 4014 | BCR | C7-C8-C9-C34 |
| 24 | 1 | 4008 | BCR | C37-C22-C23-C24 |
| 24 | 2 | 4018 | BCR | C37-C22-C23-C24 |
| 28 | h | 4020 | 45D | C32-C34-C36-C40 |
| 25 | 2 | 5004 | LHG | C33-C34-C35-C36 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | A | 1104 | CLA | C10-C11-C12-C13 |
| 21 | b | 1205 | CLA | CBD-CGD-O2D-CED |
| 31 | f | 5001 | SQD | C15-C16-C17-C18 |
| 21 | A | 1132 | CLA | C4-C3-C5-C6 |
| 21 | B | 1220 | CLA | C4-C3-C5-C6 |
| 21 | A | 1140 | CLA | C1A-C2A-CAA-CBA |
| 21 | B | 1237 | CLA | C1A-C2A-CAA-CBA |
| 21 | B | 1021 | CLA | C1A-C2A-CAA-CBA |
| 21 | B | 1222 | CLA | C1A-C2A-CAA-CBA |
| 21 | B | 1223 | CLA | C1A-C2A-CAA-CBA |
| 21 | a | 1011 | CLA | C1A-C2A-CAA-CBA |
| 21 | b | 1022 | CLA | C1A-C2A-CAA-CBA |
| 21 | b | 1021 | CLA | C1A-C2A-CAA-CBA |
| 21 | k | 1402 | CLA | C1A-C2A-CAA-CBA |
| 21 | l | 1013 | CLA | C1A-C2A-CAA-CBA |
| 21 | 8 | 1402 | CLA | C1A-C2A-CAA-CBA |
| 21 | a | 1124 | CLA | C6-C7-C8-C9 |
| 21 | b | 1215 | CLA | C16-C17-C18-C19 |
| 21 | 2 | 1215 | CLA | C11-C12-C13-C14 |
| 21 | A | 1103 | CLA | C11-C10-C8-C7 |
| 21 | A | 1106 | CLA | C11-C10-C8-C7 |
| 21 | A | 1116 | CLA | C6-C7-C8-C10 |
| 21 | B | 1205 | CLA | C6-C7-C8-C10 |
| 21 | B | 1217 | CLA | C11-C10-C8-C7 |
| 21 | B | 1240 | CLA | C6-C7-C8-C10 |
| 21 | a | 1104 | CLA | C12-C13-C15-C16 |
| 21 | a | 1106 | CLA | C6-C7-C8-C10 |
| 21 | a | 1109 | CLA | C11-C10-C8-C7 |
| 21 | a | 1111 | CLA | C12-C13-C15-C16 |
| 21 | a | 1119 | CLA | C6-C7-C8-C10 |
| 21 | a | 1127 | CLA | C11-C12-C13-C15 |
| 21 | b | 1203 | CLA | C6-C7-C8-C10 |
| 21 | b | 1208 | CLA | C6-C7-C8-C10 |
| 21 | b | 1216 | CLA | C12-C13-C15-C16 |
| 21 | 1 | 1103 | CLA | C11-C12-C13-C15 |
| 21 | 1 | 1116 | CLA | C11-C12-C13-C15 |
| 21 | 1 | 1133 | CLA | C12-C13-C15-C16 |
| 21 | 2 | 1203 | CLA | C12-C13-C15-C16 |
| 21 | 2 | 1221 | CLA | C6-C7-C8-C10 |
| 22 | A | 2001 | PQN | C22-C23-C25-C26 |
| 22 | B | 2002 | PQN | C17-C18-C20-C21 |
| 22 | a | 2001 | PQN | C17-C18-C20-C21 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 22 | 2 | 2002 | PQN | C16-C17-C18-C20 |
| 21 | a | 1136 | CLA | C10-C11-C12-C13 |
| 21 | 1 | 1106 | CLA | C8-C10-C11-C12 |
| 24 | 7 | 4013 | BCR | C15-C16-C17-C18 |
| 25 | a | 5005 | LHG | C12-C13-C14-C15 |
| 25 | 1 | 5004 | LHG | C9-C10-C11-C12 |
| 21 | b | 1223 | CLA | O1A-CGA-O2A-C1 |
| 21 | 2 | 1238 | CLA | O1A-CGA-O2A-C1 |
| 22 | B | 2002 | PQN | C26-C27-C28-C29 |
| 21 | a | 1105 | CLA | C10-C11-C12-C13 |
| 21 | a | 1012 | CLA | C2A-CAA-CBA-CGA |
| 21 | b | 1204 | CLA | C2A-CAA-CBA-CGA |
| 21 | b | 1224 | CLA | C2A-CAA-CBA-CGA |
| 21 | 1 | 1128 | CLA | C2A-CAA-CBA-CGA |
| 21 | 2 | 1215 | CLA | C2A-CAA-CBA-CGA |
| 21 | 2 | 1218 | CLA | C2A-CAA-CBA-CGA |
| 21 | 0 | 1501 | CLA | C2A-CAA-CBA-CGA |
| 21 | A | 1801 | CLA | C5-C6-C7-C8 |
| 21 | a | 1123 | CLA | C10-C11-C12-C13 |
| 21 | 1 | 1128 | CLA | C13-C15-C16-C17 |
| 21 | 2 | 1237 | CLA | C8-C10-C11-C12 |
| 22 | a | 2001 | PQN | C23-C25-C26-C27 |
| 21 | a | 1116 | CLA | CAA-CBA-CGA-O2A |
| 26 | A | 5002 | LMG | C13-C14-C15-C16 |
| 21 | a | 1131 | CLA | C15-C16-C17-C18 |
| 21 | b | 1205 | CLA | C5-C6-C7-C8 |
| 21 | b | 1223 | CLA | CBA-CGA-O2A-C1 |
| 25 | A | 5005 | LHG | C14-C15-C16-C17 |
| 21 | b | 1022 | CLA | C16-C17-C18-C20 |
| 21 | 1 | 1503 | CLA | C16-C17-C18-C20 |
| 21 | a | 1127 | CLA | C10-C11-C12-C13 |
| 21 | b | 1231 | CLA | C10-C11-C12-C13 |
| 21 | 1 | 1116 | CLA | C15-C16-C17-C18 |
| 21 | 2 | 1235 | CLA | C5-C6-C7-C8 |
| 21 | b | 1205 | CLA | C4-C3-C5-C6 |
| 21 | 1 | 1013 | CLA | C4-C3-C5-C6 |
| 21 | B | 1219 | CLA | C5-C6-C7-C8 |
| 21 | b | 1227 | CLA | C10-C11-C12-C13 |
| 21 | b | 1240 | CLA | C13-C15-C16-C17 |
| 21 | 2 | 1202 | CLA | C2-C3-C5-C6 |
| 25 | a | 5001 | LHG | C15-C16-C17-C18 |
| 25 | A | 5007 | LHG | C31-C32-C33-C34 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | a | 1118 | CLA | C15-C16-C17-C18 |
| 21 | b | 1202 | CLA | C15-C16-C17-C18 |
| 21 | A | 1105 | CLA | C3-C5-C6-C7 |
| 21 | a | 1133 | CLA | C3-C5-C6-C7 |
| 21 | b | 1021 | CLA | C3-C5-C6-C7 |
| 25 | l | 5003 | LHG | O9-C7-O7-C5 |
| 21 | A | 1011 | CLA | C16-C17-C18-C19 |
| 24 | f | 4016 | BCR | C12-C13-C14-C15 |
| 24 | l | 4022 | BCR | C11-C10-C9-C8 |
| 24 | 2 | 4011 | BCR | C16-C17-C18-C19 |
| 24 | 2 | 4018 | BCR | C20-C21-C22-C23 |
| 24 | 6 | 4016 | BCR | C12-C13-C14-C15 |
| 24 | 9 | 4021 | BCR | C12-C13-C14-C15 |
| 28 | B | 4011 | 45D | C24-C26-C30-C32 |
| 28 | B | 4011 | 45D | C33-C35-C37-C41 |
| 30 | B | 4006 | ECH | C11-C10-C9-C8 |
| 30 | B | 4006 | ECH | C12-C13-C14-C15 |
| 30 | M | 4021 | ECH | C11-C10-C9-C8 |
| 30 | b | 4011 | ECH | C16-C17-C18-C19 |
| 30 | b | 4006 | ECH | C11-C10-C9-C8 |
| 30 | m | 4021 | ECH | C11-C10-C9-C8 |
| 30 | 2 | 4006 | ECH | C11-C10-C9-C8 |
| 34 | F | 4016 | ZEX | C12-C13-C14-C15 |
| 36 | I | 4020 | EQ3 | C11-C10-C9-C8 |
| 26 | 1 | 5004 | LMG | O7-C8-C9-O8 |
| 24 | B | 4018 | BCR | C15-C16-C17-C18 |
| 24 | a | 4008 | BCR | C19-C20-C21-C22 |
| 24 | 1 | 4008 | BCR | C15-C16-C17-C18 |
| 24 | 2 | 4017 | BCR | C15-C16-C17-C18 |
| 24 | 8 | 4001 | BCR | C15-C16-C17-C18 |
| 34 | 7 | 4015 | ZEX | C29-C30-C31-C32 |
| 25 | F | 5002 | LHG | C16-C17-C18-C19 |
| 25 | B | 5006 | LHG | C10-C11-C12-C13 |
| 21 | b | 1023 | CLA | C15-C16-C17-C18 |
| 31 | B | 5008 | SQD | C17-C18-C19-C20 |
| 21 | b | 1021 | CLA | O1A-CGA-O2A-C1 |
| 25 | b | 5004 | LHG | C1-C2-C3-O3 |
| 25 | 1 | 5005 | LHG | C19-C20-C21-C22 |
| 21 | J | 1303 | CLA | C3-C5-C6-C7 |
| 21 | A | 1118 | CLA | C4-C3-C5-C6 |
| 21 | 2 | 1202 | CLA | C4-C3-C5-C6 |
| 21 | 2 | 1229 | CLA | C4-C3-C5-C6 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 25 | B | 5006 | LHG | C33-C34-C35-C36 |
| 35 | 0 | 6001 | LMT | C1-C2-C3-C4 |
| 21 | B | 1208 | CLA | C2-C1-O2A-CGA |
| 21 | B | 1226 | CLA | C2-C1-O2A-CGA |
| 21 | K | 1402 | CLA | C2-C1-O2A-CGA |
| 21 | 2 | 1238 | CLA | C2-C1-O2A-CGA |
| 21 | B | 1205 | CLA | C2-C3-C5-C6 |
| 21 | B | 1211 | CLA | C2-C3-C5-C6 |
| 21 | B | 1224 | CLA | C2-C3-C5-C6 |
| 21 | 2 | 1022 | CLA | C2-C3-C5-C6 |
| 21 | b | 1238 | CLA | CBD-CGD-O2D-CED |
| 26 | A | 5008 | LMG | C18-C19-C20-C21 |
| 21 | 1 | 1103 | CLA | CAA-CBA-CGA-O2A |
| 21 | A | 1112 | CLA | C11-C12-C13-C14 |
| 21 | A | 1114 | CLA | C11-C10-C8-C9 |
| 21 | B | 1215 | CLA | C11-C10-C8-C9 |
| 21 | K | 1402 | CLA | C6-C7-C8-C9 |
| 21 | b | 1228 | CLA | C11-C12-C13-C14 |
| 21 | 1 | 1107 | CLA | O1A-CGA-O2A-C1 |
| 21 | 2 | 1211 | CLA | O1A-CGA-O2A-C1 |
| 35 | F | 6001 | LMT | O5B-C1B-O1B-C4' |
| 21 | 1 | 1137 | CLA | C4-C3-C5-C6 |
| 25 | l | 5004 | LHG | C27-C28-C29-C30 |
| 31 | b | 5006 | SQD | C15-C16-C17-C18 |
| 21 | b | 1210 | CLA | C10-C11-C12-C13 |
| 21 | A | 1112 | CLA | C2A-CAA-CBA-CGA |
| 21 | B | 1224 | CLA | C2A-CAA-CBA-CGA |
| 21 | J | 1302 | CLA | C2A-CAA-CBA-CGA |
| 21 | a | 1102 | CLA | C2A-CAA-CBA-CGA |
| 21 | 2 | 1229 | CLA | C2A-CAA-CBA-CGA |
| 24 | A | 4007 | BCR | C23-C24-C25-C30 |
| 24 | A | 4019 | BCR | C23-C24-C25-C30 |
| 24 | B | 4018 | BCR | C23-C24-C25-C30 |
| 24 | I | 4018 | BCR | C1-C6-C7-C8 |
| 24 | J | 4013 | BCR | C23-C24-C25-C30 |
| 24 | L | 4022 | BCR | C23-C24-C25-C30 |
| 24 | a | 4001 | BCR | C1-C6-C7-C8 |
| 24 | a | 4003 | BCR | C1-C6-C7-C8 |
| 24 | a | 4003 | BCR | C23-C24-C25-C30 |
| 24 | b | 4005 | BCR | C23-C24-C25-C30 |
| 24 | b | 4017 | BCR | C1-C6-C7-C8 |
| 24 | b | 4014 | BCR | C23-C24-C25-C26 |

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| Mol | Chain | Res | Type | Atoms |
|------------|--------------|------------|-------------|-----------------|
| 24 | 1 | 4001 | BCR | C1-C6-C7-C8 |
| 24 | 1 | 4007 | BCR | C1-C6-C7-C8 |
| 24 | 1 | 4008 | BCR | C1-C6-C7-C8 |
| 24 | 1 | 4019 | BCR | C23-C24-C25-C30 |
| 24 | 8 | 4001 | BCR | C1-C6-C7-C8 |
| 36 | I | 4020 | EQ3 | C23-C24-C25-C30 |
| 21 | B | 1219 | CLA | C15-C16-C17-C18 |
| 21 | a | 1801 | CLA | CAA-CBA-CGA-O2A |
| 21 | 2 | 1202 | CLA | CAA-CBA-CGA-O2A |
| 25 | l | 5004 | LHG | O8-C23-C24-C25 |
| 24 | I | 4018 | BCR | C7-C8-C9-C34 |
| 26 | A | 5004 | LMG | O1-C7-C8-C9 |
| 26 | A | 5004 | LMG | C11-C12-C13-C14 |
| 21 | 2 | 1232 | CLA | CAA-CBA-CGA-O2A |
| 21 | b | 1222 | CLA | C15-C16-C17-C18 |
| 24 | K | 4001 | BCR | C19-C20-C21-C22 |
| 24 | a | 4002 | BCR | C9-C10-C11-C12 |
| 24 | a | 4002 | BCR | C19-C20-C21-C22 |
| 24 | 1 | 4001 | BCR | C9-C10-C11-C12 |
| 25 | l | 5002 | LHG | C33-C34-C35-C36 |
| 25 | 1 | 5001 | LHG | C33-C34-C35-C36 |
| 21 | a | 1110 | CLA | C4-C3-C5-C6 |
| 21 | 2 | 1235 | CLA | C4-C3-C5-C6 |
| 21 | 0 | 1501 | CLA | C4-C3-C5-C6 |
| 21 | B | 1219 | CLA | C2-C3-C5-C6 |
| 21 | a | 1105 | CLA | C2-C3-C5-C6 |
| 21 | a | 1118 | CLA | C2-C3-C5-C6 |
| 21 | a | 1131 | CLA | C2-C3-C5-C6 |
| 21 | 2 | 1207 | CLA | C2-C3-C5-C6 |
| 21 | 1 | 1011 | CLA | CAA-CBA-CGA-O2A |
| 25 | a | 5005 | LHG | O8-C23-C24-C25 |
| 25 | A | 5005 | LHG | C32-C33-C34-C35 |
| 21 | a | 1104 | CLA | C10-C11-C12-C13 |
| 25 | A | 5001 | LHG | C9-C10-C11-C12 |
| 25 | a | 5003 | LHG | C25-C26-C27-C28 |
| 21 | A | 1113 | CLA | C16-C17-C18-C19 |
| 21 | B | 1213 | CLA | C16-C17-C18-C20 |
| 21 | B | 1223 | CLA | C16-C17-C18-C20 |
| 21 | B | 1235 | CLA | C16-C17-C18-C20 |
| 21 | a | 1116 | CLA | C11-C12-C13-C14 |
| 21 | b | 1209 | CLA | C16-C17-C18-C19 |
| 21 | 1 | 1136 | CLA | C16-C17-C18-C19 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | 2 | 1204 | CLA | C16-C17-C18-C20 |
| 21 | A | 1133 | CLA | C10-C11-C12-C13 |
| 25 | A | 5003 | LHG | O6-C4-C5-O7 |
| 21 | 2 | 1232 | CLA | CAA-CBA-CGA-O1A |
| 21 | B | 1201 | CLA | C2A-CAA-CBA-CGA |
| 25 | 1 | 5003 | LHG | C24-C23-O8-C6 |
| 25 | 1 | 5005 | LHG | C34-C35-C36-C37 |
| 21 | B | 1211 | CLA | C3-C5-C6-C7 |
| 25 | B | 5004 | LHG | C24-C25-C26-C27 |
| 26 | A | 5008 | LMG | C19-C20-C21-C22 |
| 21 | B | 1203 | CLA | C15-C16-C17-C18 |
| 21 | L | 1501 | CLA | C5-C6-C7-C8 |
| 21 | F | 1302 | CLA | C4-C3-C5-C6 |
| 21 | a | 1108 | CLA | C4-C3-C5-C6 |
| 21 | b | 1206 | CLA | C4-C3-C5-C6 |
| 21 | 1 | 1120 | CLA | C4-C3-C5-C6 |
| 22 | B | 2002 | PQN | C14-C13-C15-C16 |
| 26 | K | 5009 | LMG | C24-C25-C26-C27 |
| 21 | A | 1105 | CLA | C11-C12-C13-C15 |
| 21 | A | 1122 | CLA | C2-C3-C5-C6 |
| 21 | A | 1131 | CLA | C2-C3-C5-C6 |
| 21 | B | 1219 | CLA | C11-C12-C13-C15 |
| 21 | B | 1228 | CLA | C6-C7-C8-C10 |
| 21 | J | 1303 | CLA | C2-C3-C5-C6 |
| 21 | a | 1121 | CLA | C11-C10-C8-C7 |
| 21 | a | 1139 | CLA | C6-C7-C8-C10 |
| 21 | a | 1101 | CLA | C6-C7-C8-C10 |
| 21 | b | 1205 | CLA | C2-C3-C5-C6 |
| 21 | b | 1210 | CLA | C11-C12-C13-C15 |
| 21 | b | 1218 | CLA | C11-C12-C13-C15 |
| 21 | b | 1238 | CLA | C11-C10-C8-C7 |
| 21 | f | 1302 | CLA | C11-C12-C13-C15 |
| 21 | 1 | 1103 | CLA | C11-C10-C8-C7 |
| 21 | 1 | 1128 | CLA | C12-C13-C15-C16 |
| 21 | 1 | 1132 | CLA | C12-C13-C15-C16 |
| 21 | 2 | 1225 | CLA | C11-C12-C13-C15 |
| 21 | 0 | 1501 | CLA | C2-C3-C5-C6 |
| 25 | B | 5004 | LHG | C33-C34-C35-C36 |
| 24 | A | 4007 | BCR | C19-C20-C21-C22 |
| 24 | L | 4022 | BCR | C13-C14-C15-C16 |
| 24 | 2 | 4004 | BCR | C13-C14-C15-C16 |
| 21 | a | 1103 | CLA | CAA-CBA-CGA-O2A |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 26 | 0 | 5001 | LMG | O7-C10-C11-C12 |
| 21 | B | 1217 | CLA | C16-C17-C18-C20 |
| 21 | a | 1109 | CLA | C13-C15-C16-C17 |
| 25 | F | 5002 | LHG | O7-C5-C6-O8 |
| 25 | M | 5001 | LHG | O7-C5-C6-O8 |
| 26 | A | 5008 | LMG | O10-C28-O8-C9 |
| 21 | 1 | 1107 | CLA | CBA-CGA-O2A-C1 |
| 25 | B | 5004 | LHG | C32-C33-C34-C35 |
| 21 | 2 | 1228 | CLA | CAA-CBA-CGA-O2A |
| 21 | a | 1129 | CLA | CAA-CBA-CGA-O2A |
| 25 | F | 5002 | LHG | O8-C23-C24-C25 |
| 25 | a | 5003 | LHG | O7-C7-C8-C9 |
| 21 | K | 1401 | CLA | C8-C10-C11-C12 |
| 21 | b | 1224 | CLA | C8-C10-C11-C12 |
| 25 | a | 5003 | LHG | C14-C15-C16-C17 |
| 21 | 1 | 1117 | CLA | C16-C17-C18-C19 |
| 21 | 1 | 1138 | CLA | C11-C12-C13-C14 |
| 21 | b | 1238 | CLA | O1D-CGD-O2D-CED |
| 25 | l | 5004 | LHG | C19-C20-C21-C22 |
| 31 | L | 5002 | SQD | C28-C29-C30-C31 |
| 24 | B | 4018 | BCR | C11-C10-C9-C34 |
| 24 | b | 4018 | BCR | C11-C10-C9-C34 |
| 25 | B | 5006 | LHG | C25-C26-C27-C28 |
| 31 | B | 5008 | SQD | C7-C8-C9-C10 |
| 21 | l | 1503 | CLA | CAA-CBA-CGA-O2A |
| 26 | B | 5002 | LMG | O7-C10-C11-C12 |
| 21 | A | 1013 | CLA | C4-C3-C5-C6 |
| 21 | K | 1401 | CLA | C4-C3-C5-C6 |
| 21 | b | 1207 | CLA | C4-C3-C5-C6 |
| 21 | b | 1226 | CLA | C4-C3-C5-C6 |
| 21 | 2 | 1224 | CLA | C4-C3-C5-C6 |
| 21 | B | 1022 | CLA | C8-C10-C11-C12 |
| 21 | a | 1105 | CLA | C8-C10-C11-C12 |
| 21 | 1 | 1013 | CLA | C13-C15-C16-C17 |
| 21 | b | 1213 | CLA | O1A-CGA-O2A-C1 |
| 21 | A | 1109 | CLA | C2-C3-C5-C6 |
| 21 | a | 1109 | CLA | C2-C3-C5-C6 |
| 21 | a | 1136 | CLA | C2-C3-C5-C6 |
| 21 | j | 1302 | CLA | C2-C3-C5-C6 |
| 21 | 1 | 1013 | CLA | C2-C3-C5-C6 |
| 25 | 1 | 5001 | LHG | C12-C13-C14-C15 |
| 21 | b | 1213 | CLA | C10-C11-C12-C13 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | b | 1219 | CLA | CAA-CBA-CGA-O2A |
| 21 | 1 | 1125 | CLA | CAA-CBA-CGA-O2A |
| 25 | A | 5001 | LHG | O7-C7-C8-C9 |
| 31 | B | 5008 | SQD | C15-C16-C17-C18 |
| 21 | A | 1103 | CLA | C14-C13-C15-C16 |
| 21 | A | 1106 | CLA | C11-C10-C8-C9 |
| 21 | A | 1118 | CLA | C11-C12-C13-C14 |
| 21 | A | 1130 | CLA | C11-C10-C8-C9 |
| 21 | B | 1237 | CLA | C11-C10-C8-C9 |
| 21 | B | 1208 | CLA | C14-C13-C15-C16 |
| 21 | B | 1217 | CLA | C11-C10-C8-C9 |
| 21 | K | 1401 | CLA | C14-C13-C15-C16 |
| 21 | a | 1011 | CLA | C14-C13-C15-C16 |
| 21 | a | 1102 | CLA | C11-C12-C13-C14 |
| 21 | a | 1104 | CLA | C14-C13-C15-C16 |
| 21 | a | 1106 | CLA | C6-C7-C8-C9 |
| 21 | a | 1112 | CLA | C11-C12-C13-C14 |
| 21 | a | 1117 | CLA | C6-C7-C8-C9 |
| 21 | a | 1118 | CLA | C14-C13-C15-C16 |
| 21 | a | 1135 | CLA | C14-C13-C15-C16 |
| 21 | a | 1139 | CLA | C14-C13-C15-C16 |
| 21 | b | 1203 | CLA | C14-C13-C15-C16 |
| 21 | b | 1213 | CLA | C11-C12-C13-C14 |
| 21 | b | 1216 | CLA | C14-C13-C15-C16 |
| 21 | b | 1220 | CLA | C11-C12-C13-C14 |
| 21 | b | 1231 | CLA | C6-C7-C8-C9 |
| 21 | b | 1230 | CLA | C6-C7-C8-C9 |
| 21 | l | 1501 | CLA | C11-C10-C8-C9 |
| 21 | l | 1502 | CLA | C6-C7-C8-C9 |
| 21 | 1 | 1103 | CLA | C11-C12-C13-C14 |
| 21 | 1 | 1106 | CLA | C11-C10-C8-C9 |
| 21 | 1 | 1136 | CLA | C6-C7-C8-C9 |
| 21 | 1 | 1138 | CLA | C11-C10-C8-C9 |
| 21 | 1 | 1139 | CLA | C14-C13-C15-C16 |
| 21 | 2 | 1023 | CLA | C6-C7-C8-C9 |
| 21 | 2 | 1205 | CLA | C6-C7-C8-C9 |
| 21 | 2 | 1214 | CLA | C6-C7-C8-C9 |
| 21 | 0 | 1501 | CLA | C11-C12-C13-C14 |
| 22 | B | 2002 | PQN | C16-C17-C18-C19 |
| 26 | a | 5004 | LMG | C29-C30-C31-C32 |
| 26 | 2 | 5002 | LMG | C22-C23-C24-C25 |
| 21 | A | 1011 | CLA | C3A-C2A-CAA-CBA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | A | 1126 | CLA | C3A-C2A-CAA-CBA |
| 21 | A | 1138 | CLA | C3A-C2A-CAA-CBA |
| 21 | B | 1022 | CLA | C3A-C2A-CAA-CBA |
| 21 | B | 1223 | CLA | C3A-C2A-CAA-CBA |
| 21 | a | 1011 | CLA | C3A-C2A-CAA-CBA |
| 21 | a | 1120 | CLA | C3A-C2A-CAA-CBA |
| 21 | a | 1128 | CLA | C3A-C2A-CAA-CBA |
| 21 | b | 1021 | CLA | C3A-C2A-CAA-CBA |
| 21 | 2 | 1232 | CLA | C3A-C2A-CAA-CBA |
| 25 | a | 5003 | LHG | C27-C28-C29-C30 |
| 25 | b | 5004 | LHG | O2-C2-C3-O3 |
| 21 | 2 | 1214 | CLA | O1A-CGA-O2A-C1 |
| 21 | 1 | 1108 | CLA | CAA-CBA-CGA-O2A |
| 21 | 2 | 1230 | CLA | CAA-CBA-CGA-O2A |
| 25 | 1 | 5001 | LHG | O7-C7-C8-C9 |
| 25 | A | 5001 | LHG | C30-C31-C32-C33 |
| 21 | A | 1011 | CLA | CAD-CBD-CGD-O2D |
| 21 | B | 1218 | CLA | CAD-CBD-CGD-O2D |
| 21 | B | 1222 | CLA | CAD-CBD-CGD-O2D |
| 21 | L | 1501 | CLA | CAD-CBD-CGD-O2D |
| 21 | a | 1125 | CLA | CAD-CBD-CGD-O2D |
| 21 | b | 1227 | CLA | CAD-CBD-CGD-O2D |
| 21 | 1 | 1112 | CLA | CAD-CBD-CGD-O2D |
| 21 | 1 | 1120 | CLA | CAD-CBD-CGD-O2D |
| 21 | 1 | 1138 | CLA | CAD-CBD-CGD-O2D |
| 21 | 2 | 1209 | CLA | CAD-CBD-CGD-O2D |
| 21 | 6 | 1301 | CLA | CAD-CBD-CGD-O2D |
| 21 | 6 | 1302 | CLA | CAD-CBD-CGD-O2D |
| 21 | 8 | 1402 | CLA | CAD-CBD-CGD-O2D |
| 21 | B | 1225 | CLA | C16-C17-C18-C19 |
| 31 | 0 | 5005 | SQD | C14-C15-C16-C17 |
| 21 | b | 1212 | CLA | C10-C11-C12-C13 |
| 21 | a | 1132 | CLA | C2A-CAA-CBA-CGA |
| 21 | b | 1215 | CLA | C2A-CAA-CBA-CGA |
| 25 | A | 5005 | LHG | C29-C30-C31-C32 |
| 21 | a | 1123 | CLA | C13-C15-C16-C17 |
| 21 | 1 | 1502 | CLA | C15-C16-C17-C18 |
| 21 | B | 1204 | CLA | C2-C1-O2A-CGA |
| 21 | b | 1216 | CLA | CAA-CBA-CGA-O2A |
| 21 | k | 1402 | CLA | CAA-CBA-CGA-O2A |
| 25 | A | 5001 | LHG | O8-C23-C24-C25 |
| 25 | M | 5001 | LHG | O7-C7-C8-C9 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 26 | 2 | 5002 | LMG | O7-C10-C11-C12 |
| 21 | a | 1117 | CLA | C15-C16-C17-C18 |
| 21 | 1 | 1124 | CLA | C4-C3-C5-C6 |
| 21 | A | 1118 | CLA | C2-C3-C5-C6 |
| 21 | B | 1220 | CLA | C2-C3-C5-C6 |
| 21 | 2 | 1224 | CLA | C2-C3-C5-C6 |
| 21 | a | 1128 | CLA | CAA-CBA-CGA-O2A |
| 21 | 2 | 1214 | CLA | CAA-CBA-CGA-O2A |
| 25 | 1 | 5002 | LHG | O7-C7-C8-C9 |
| 25 | B | 5006 | LHG | C30-C31-C32-C33 |
| 25 | 1 | 5004 | LHG | C24-C25-C26-C27 |
| 26 | 0 | 5001 | LMG | C19-C20-C21-C22 |
| 31 | 0 | 5005 | SQD | C28-C29-C30-C31 |
| 24 | b | 4004 | BCR | C7-C8-C9-C10 |
| 24 | b | 4014 | BCR | C7-C8-C9-C10 |
| 24 | 1 | 4007 | BCR | C11-C12-C13-C14 |
| 24 | 1 | 4007 | BCR | C17-C18-C19-C20 |
| 24 | 1 | 4008 | BCR | C21-C22-C23-C24 |
| 30 | i | 4020 | ECH | C17-C18-C19-C20 |
| 21 | 1 | 1801 | CLA | C11-C10-C8-C9 |
| 25 | 1 | 5007 | LHG | C4-C5-C6-O8 |
| 26 | 1 | 5004 | LMG | C7-C8-C9-O8 |
| 37 | L | 5004 | DGD | O1G-C1G-C2G-C3G |
| 21 | 2 | 1209 | CLA | CAA-CBA-CGA-O2A |
| 25 | 1 | 5003 | LHG | O10-C23-O8-C6 |
| 21 | A | 1121 | CLA | C3-C5-C6-C7 |
| 21 | 1 | 1136 | CLA | CAA-CBA-CGA-O2A |
| 26 | A | 5002 | LMG | O8-C28-C29-C30 |
| 26 | A | 5004 | LMG | O8-C28-C29-C30 |
| 21 | a | 1122 | CLA | O2A-C1-C2-C3 |
| 25 | B | 5004 | LHG | C10-C11-C12-C13 |
| 37 | L | 5004 | DGD | CAB-CBB-CCB-CDB |
| 21 | 2 | 1211 | CLA | CBA-CGA-O2A-C1 |
| 21 | 2 | 1238 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1116 | CLA | C2A-CAA-CBA-CGA |
| 21 | 2 | 1202 | CLA | C2A-CAA-CBA-CGA |
| 21 | 1 | 1106 | CLA | C3-C5-C6-C7 |
| 21 | 2 | 1227 | CLA | CAA-CBA-CGA-O2A |
| 21 | A | 1011 | CLA | C16-C17-C18-C20 |
| 21 | A | 1133 | CLA | C16-C17-C18-C20 |
| 21 | b | 1201 | CLA | C16-C17-C18-C19 |
| 31 | 0 | 5005 | SQD | C11-C10-C9-C8 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 25 | B | 5004 | LHG | C16-C17-C18-C19 |
| 21 | A | 1013 | CLA | CHA-CBD-CGD-O1D |
| 21 | A | 1013 | CLA | CHA-CBD-CGD-O2D |
| 21 | A | 1108 | CLA | CHA-CBD-CGD-O2D |
| 21 | A | 1114 | CLA | CHA-CBD-CGD-O2D |
| 21 | A | 1118 | CLA | CHA-CBD-CGD-O1D |
| 21 | A | 1118 | CLA | CHA-CBD-CGD-O2D |
| 21 | A | 1119 | CLA | CHA-CBD-CGD-O2D |
| 21 | A | 1125 | CLA | CHA-CBD-CGD-O1D |
| 21 | A | 1126 | CLA | CHA-CBD-CGD-O1D |
| 21 | A | 1126 | CLA | CHA-CBD-CGD-O2D |
| 21 | A | 1127 | CLA | CHA-CBD-CGD-O1D |
| 21 | A | 1127 | CLA | CHA-CBD-CGD-O2D |
| 21 | A | 1136 | CLA | CHA-CBD-CGD-O1D |
| 21 | A | 1136 | CLA | CHA-CBD-CGD-O2D |
| 21 | B | 1021 | CLA | CHA-CBD-CGD-O2D |
| 21 | B | 1201 | CLA | CHA-CBD-CGD-O2D |
| 21 | B | 1211 | CLA | CHA-CBD-CGD-O2D |
| 21 | B | 1216 | CLA | CHA-CBD-CGD-O1D |
| 21 | B | 1216 | CLA | CHA-CBD-CGD-O2D |
| 21 | B | 1217 | CLA | CHA-CBD-CGD-O2D |
| 21 | B | 1223 | CLA | CHA-CBD-CGD-O1D |
| 21 | B | 1223 | CLA | CHA-CBD-CGD-O2D |
| 21 | B | 1224 | CLA | CHA-CBD-CGD-O1D |
| 21 | B | 1224 | CLA | CHA-CBD-CGD-O2D |
| 21 | B | 1225 | CLA | CHA-CBD-CGD-O1D |
| 21 | B | 1225 | CLA | CHA-CBD-CGD-O2D |
| 21 | B | 1235 | CLA | CHA-CBD-CGD-O1D |
| 21 | B | 1235 | CLA | CHA-CBD-CGD-O2D |
| 21 | B | 1230 | CLA | CHA-CBD-CGD-O1D |
| 21 | a | 1011 | CLA | CHA-CBD-CGD-O1D |
| 21 | a | 1011 | CLA | CHA-CBD-CGD-O2D |
| 21 | a | 1104 | CLA | CHA-CBD-CGD-O1D |
| 21 | a | 1104 | CLA | CHA-CBD-CGD-O2D |
| 21 | a | 1119 | CLA | CHA-CBD-CGD-O2D |
| 21 | a | 1120 | CLA | CHA-CBD-CGD-O2D |
| 21 | a | 1121 | CLA | CHA-CBD-CGD-O1D |
| 21 | a | 1121 | CLA | CHA-CBD-CGD-O2D |
| 21 | a | 1123 | CLA | CHA-CBD-CGD-O1D |
| 21 | a | 1123 | CLA | CHA-CBD-CGD-O2D |
| 21 | a | 1126 | CLA | CHA-CBD-CGD-O2D |
| 21 | a | 1127 | CLA | CHA-CBD-CGD-O1D |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | a | 1127 | CLA | CHA-CBD-CGD-O2D |
| 21 | a | 1129 | CLA | CHA-CBD-CGD-O2D |
| 21 | a | 1133 | CLA | CHA-CBD-CGD-O2D |
| 21 | a | 1136 | CLA | CHA-CBD-CGD-O1D |
| 21 | a | 1136 | CLA | CHA-CBD-CGD-O2D |
| 21 | a | 1137 | CLA | CHA-CBD-CGD-O1D |
| 21 | a | 1139 | CLA | CHA-CBD-CGD-O2D |
| 21 | b | 1237 | CLA | CHA-CBD-CGD-O1D |
| 21 | b | 1023 | CLA | CHA-CBD-CGD-O2D |
| 21 | b | 1204 | CLA | CHA-CBD-CGD-O1D |
| 21 | b | 1204 | CLA | CHA-CBD-CGD-O2D |
| 21 | b | 1206 | CLA | CHA-CBD-CGD-O1D |
| 21 | b | 1206 | CLA | CHA-CBD-CGD-O2D |
| 21 | b | 1207 | CLA | CHA-CBD-CGD-O2D |
| 21 | b | 1211 | CLA | CHA-CBD-CGD-O1D |
| 21 | b | 1212 | CLA | CHA-CBD-CGD-O2D |
| 21 | b | 1213 | CLA | CHA-CBD-CGD-O2D |
| 21 | b | 1225 | CLA | CHA-CBD-CGD-O1D |
| 21 | b | 1225 | CLA | CHA-CBD-CGD-O2D |
| 21 | 1 | 1011 | CLA | CHA-CBD-CGD-O2D |
| 21 | 1 | 1114 | CLA | CHA-CBD-CGD-O1D |
| 21 | 1 | 1114 | CLA | CHA-CBD-CGD-O2D |
| 21 | 1 | 1118 | CLA | CHA-CBD-CGD-O1D |
| 21 | 1 | 1118 | CLA | CHA-CBD-CGD-O2D |
| 21 | 1 | 1119 | CLA | CHA-CBD-CGD-O1D |
| 21 | 1 | 1119 | CLA | CHA-CBD-CGD-O2D |
| 21 | 1 | 1123 | CLA | CHA-CBD-CGD-O1D |
| 21 | 1 | 1125 | CLA | CHA-CBD-CGD-O1D |
| 21 | 1 | 1126 | CLA | CHA-CBD-CGD-O1D |
| 21 | 1 | 1126 | CLA | CHA-CBD-CGD-O2D |
| 21 | 1 | 1801 | CLA | CHA-CBD-CGD-O1D |
| 21 | 1 | 1801 | CLA | CHA-CBD-CGD-O2D |
| 21 | 2 | 1201 | CLA | CHA-CBD-CGD-O2D |
| 21 | 2 | 1207 | CLA | CHA-CBD-CGD-O1D |
| 21 | 2 | 1207 | CLA | CHA-CBD-CGD-O2D |
| 21 | 2 | 1214 | CLA | CHA-CBD-CGD-O1D |
| 21 | 2 | 1214 | CLA | CHA-CBD-CGD-O2D |
| 21 | 2 | 1215 | CLA | CHA-CBD-CGD-O2D |
| 21 | 2 | 1224 | CLA | CHA-CBD-CGD-O1D |
| 21 | 2 | 1224 | CLA | CHA-CBD-CGD-O2D |
| 21 | 2 | 1236 | CLA | CHA-CBD-CGD-O1D |
| 21 | 2 | 1236 | CLA | CHA-CBD-CGD-O2D |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | 2 | 1240 | CLA | CHA-CBD-CGD-O1D |
| 21 | 2 | 1240 | CLA | CHA-CBD-CGD-O2D |
| 21 | 8 | 1402 | CLA | CHA-CBD-CGD-O2D |
| 21 | 0 | 1501 | CLA | CHA-CBD-CGD-O2D |
| 24 | A | 4019 | BCR | C19-C20-C21-C22 |
| 21 | A | 1115 | CLA | C15-C16-C17-C18 |
| 21 | 2 | 1209 | CLA | CAA-CBA-CGA-O1A |
| 21 | a | 1112 | CLA | C4-C3-C5-C6 |
| 21 | 2 | 1219 | CLA | CAA-CBA-CGA-O2A |
| 25 | a | 5005 | LHG | O7-C7-C8-C9 |
| 26 | A | 5004 | LMG | O7-C10-C11-C12 |
| 26 | A | 5008 | LMG | C29-C28-O8-C9 |
| 21 | 1 | 1124 | CLA | C2-C3-C5-C6 |
| 21 | 1 | 1139 | CLA | C10-C11-C12-C13 |
| 25 | 0 | 5002 | LHG | O6-C4-C5-C6 |
| 24 | B | 4018 | BCR | C11-C10-C9-C8 |
| 24 | b | 4018 | BCR | C11-C10-C9-C8 |
| 21 | 2 | 1228 | CLA | CAA-CBA-CGA-O1A |
| 21 | B | 1237 | CLA | C16-C17-C18-C19 |
| 25 | B | 5004 | LHG | O8-C23-C24-C25 |
| 25 | a | 5007 | LHG | O7-C7-C8-C9 |
| 25 | l | 5004 | LHG | O7-C7-C8-C9 |
| 31 | b | 5006 | SQD | C24-C25-C26-C27 |
| 31 | B | 5008 | SQD | O49-C7-C8-C9 |
| 35 | 1 | 6001 | LMT | C9-C10-C11-C12 |
| 25 | l | 5002 | LHG | O9-C7-O7-C5 |
| 21 | b | 1239 | CLA | C15-C16-C17-C18 |
| 21 | L | 1502 | CLA | CAA-CBA-CGA-O2A |
| 21 | a | 1122 | CLA | CAA-CBA-CGA-O2A |
| 21 | b | 1210 | CLA | CAA-CBA-CGA-O2A |
| 21 | 1 | 1107 | CLA | CAA-CBA-CGA-O2A |
| 31 | F | 5001 | SQD | O48-C23-C24-C25 |
| 21 | A | 1134 | CLA | O1D-CGD-O2D-CED |
| 21 | 8 | 1401 | CLA | CAA-CBA-CGA-O2A |
| 21 | B | 1226 | CLA | C8-C10-C11-C12 |
| 25 | A | 5001 | LHG | C24-C23-O8-C6 |
| 25 | l | 5003 | LHG | C8-C7-O7-C5 |
| 21 | A | 1801 | CLA | CAA-CBA-CGA-O2A |
| 21 | B | 1210 | CLA | CAA-CBA-CGA-O2A |
| 21 | B | 1222 | CLA | C4-C3-C5-C6 |
| 21 | J | 1302 | CLA | C4-C3-C5-C6 |
| 21 | a | 1139 | CLA | O1A-CGA-O2A-C1 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | b | 1227 | CLA | C5-C6-C7-C8 |
| 21 | A | 1111 | CLA | C11-C12-C13-C15 |
| 21 | A | 1117 | CLA | C6-C7-C8-C10 |
| 21 | A | 1117 | CLA | C12-C13-C15-C16 |
| 21 | A | 1801 | CLA | C11-C12-C13-C15 |
| 21 | B | 1214 | CLA | C2-C3-C5-C6 |
| 21 | J | 1302 | CLA | C6-C7-C8-C10 |
| 21 | L | 1503 | CLA | C11-C12-C13-C15 |
| 21 | a | 1108 | CLA | C2-C3-C5-C6 |
| 21 | a | 1115 | CLA | C11-C12-C13-C15 |
| 21 | a | 1118 | CLA | C11-C12-C13-C15 |
| 21 | a | 1126 | CLA | C11-C12-C13-C15 |
| 21 | a | 1130 | CLA | C6-C7-C8-C10 |
| 21 | b | 1218 | CLA | C6-C7-C8-C10 |
| 21 | b | 1226 | CLA | C2-C3-C5-C6 |
| 21 | l | 1503 | CLA | C11-C10-C8-C7 |
| 21 | 2 | 1202 | CLA | C12-C13-C15-C16 |
| 21 | 2 | 1205 | CLA | C11-C12-C13-C15 |
| 21 | 2 | 1214 | CLA | C2-C3-C5-C6 |
| 21 | 2 | 1215 | CLA | C11-C10-C8-C7 |
| 21 | B | 1210 | CLA | C16-C17-C18-C19 |
| 21 | B | 1213 | CLA | C16-C17-C18-C19 |
| 21 | 2 | 1238 | CLA | C16-C17-C18-C20 |
| 21 | a | 1128 | CLA | C5-C6-C7-C8 |
| 21 | A | 1136 | CLA | CAA-CBA-CGA-O2A |
| 21 | b | 1230 | CLA | CAA-CBA-CGA-O2A |
| 21 | 2 | 1210 | CLA | CAA-CBA-CGA-O2A |
| 26 | K | 5009 | LMG | O7-C10-C11-C12 |
| 26 | b | 5002 | LMG | O7-C10-C11-C12 |
| 31 | L | 5001 | SQD | O47-C7-C8-C9 |
| 21 | A | 1102 | CLA | C14-C13-C15-C16 |
| 21 | A | 1107 | CLA | C11-C12-C13-C14 |
| 21 | A | 1111 | CLA | C6-C7-C8-C9 |
| 21 | A | 1117 | CLA | C14-C13-C15-C16 |
| 21 | A | 1120 | CLA | C14-C13-C15-C16 |
| 21 | A | 1134 | CLA | C11-C12-C13-C14 |
| 21 | A | 1801 | CLA | C11-C12-C13-C14 |
| 21 | J | 1302 | CLA | C6-C7-C8-C9 |
| 21 | L | 1503 | CLA | C11-C12-C13-C14 |
| 21 | a | 1110 | CLA | C11-C10-C8-C9 |
| 21 | b | 1212 | CLA | C11-C10-C8-C9 |
| 21 | b | 1223 | CLA | C6-C7-C8-C9 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | b | 1239 | CLA | C14-C13-C15-C16 |
| 21 | b | 1240 | CLA | C11-C12-C13-C14 |
| 21 | 1 | 1116 | CLA | C11-C12-C13-C14 |
| 21 | 1 | 1134 | CLA | C11-C10-C8-C9 |
| 21 | 1 | 1101 | CLA | C11-C10-C8-C9 |
| 21 | 2 | 1203 | CLA | C11-C10-C8-C9 |
| 21 | 2 | 1221 | CLA | C6-C7-C8-C9 |
| 21 | 2 | 1239 | CLA | C11-C12-C13-C14 |
| 22 | A | 2001 | PQN | C24-C23-C25-C26 |
| 22 | 2 | 2002 | PQN | C16-C17-C18-C19 |
| 25 | 1 | 5007 | LHG | C5-C6-O8-C23 |
| 24 | b | 4018 | BCR | C15-C16-C17-C18 |
| 24 | l | 4022 | BCR | C19-C20-C21-C22 |
| 21 | a | 1139 | CLA | CBA-CGA-O2A-C1 |
| 21 | b | 1021 | CLA | CBA-CGA-O2A-C1 |
| 21 | b | 1203 | CLA | CBA-CGA-O2A-C1 |
| 21 | b | 1213 | CLA | CBA-CGA-O2A-C1 |
| 21 | a | 1128 | CLA | C13-C15-C16-C17 |
| 21 | a | 1107 | CLA | CAA-CBA-CGA-O2A |
| 26 | b | 5005 | LMG | O8-C28-C29-C30 |
| 25 | A | 5001 | LHG | O10-C23-C24-C25 |
| 25 | 0 | 5004 | LHG | O10-C23-C24-C25 |
| 31 | f | 5001 | SQD | C4-C5-C6-S |
| 31 | 0 | 5005 | SQD | C4-C5-C6-S |
| 21 | L | 1503 | CLA | C16-C17-C18-C20 |
| 21 | 2 | 1202 | CLA | C3-C5-C6-C7 |
| 25 | l | 5002 | LHG | C8-C7-O7-C5 |
| 21 | b | 1220 | CLA | C2A-CAA-CBA-CGA |
| 25 | a | 5003 | LHG | O9-C7-C8-C9 |
| 21 | A | 1113 | CLA | CAA-CBA-CGA-O2A |
| 25 | A | 5006 | LHG | C15-C16-C17-C18 |
| 31 | 0 | 5005 | SQD | C35-C36-C37-C38 |
| 21 | 2 | 1220 | CLA | CAA-CBA-CGA-O2A |
| 21 | b | 1022 | CLA | C16-C17-C18-C19 |
| 25 | L | 5005 | LHG | O1-C1-C2-C3 |
| 25 | l | 5002 | LHG | O1-C1-C2-C3 |
| 21 | B | 1021 | CLA | O1A-CGA-O2A-C1 |
| 26 | 1 | 5004 | LMG | O7-C10-C11-C12 |
| 25 | 0 | 5002 | LHG | C19-C20-C21-C22 |
| 21 | 2 | 1227 | CLA | CAA-CBA-CGA-O1A |
| 21 | 2 | 1214 | CLA | CAA-CBA-CGA-O1A |
| 25 | A | 5001 | LHG | O9-C7-C8-C9 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 25 | F | 5002 | LHG | O10-C23-C24-C25 |
| 25 | M | 5001 | LHG | O9-C7-C8-C9 |
| 25 | l | 5002 | LHG | O9-C7-C8-C9 |
| 26 | 0 | 5001 | LMG | O9-C10-C11-C12 |
| 24 | 2 | 4018 | BCR | C21-C22-C23-C24 |
| 34 | 7 | 4015 | ZEX | C31-C32-C33-C34 |
| 25 | 1 | 5003 | LHG | C19-C20-C21-C22 |
| 31 | B | 5008 | SQD | C9-C10-C11-C12 |
| 21 | A | 1131 | CLA | C10-C11-C12-C13 |
| 21 | 1 | 1115 | CLA | C10-C11-C12-C13 |
| 25 | A | 5001 | LHG | O10-C23-O8-C6 |
| 21 | 2 | 1229 | CLA | C2C-C3C-CAC-CBC |
| 26 | b | 5005 | LMG | C11-C12-C13-C14 |
| 21 | A | 1102 | CLA | C1A-C2A-CAA-CBA |
| 21 | A | 1114 | CLA | C1A-C2A-CAA-CBA |
| 21 | A | 1101 | CLA | C1A-C2A-CAA-CBA |
| 21 | B | 1022 | CLA | C1A-C2A-CAA-CBA |
| 21 | B | 1228 | CLA | C1A-C2A-CAA-CBA |
| 21 | a | 1124 | CLA | C1A-C2A-CAA-CBA |
| 21 | b | 1214 | CLA | C1A-C2A-CAA-CBA |
| 21 | l | 1503 | CLA | C1A-C2A-CAA-CBA |
| 21 | 1 | 1105 | CLA | C1A-C2A-CAA-CBA |
| 21 | 1 | 1128 | CLA | C1A-C2A-CAA-CBA |
| 21 | 1 | 1101 | CLA | C1A-C2A-CAA-CBA |
| 21 | 1 | 1012 | CLA | C1A-C2A-CAA-CBA |
| 21 | 2 | 1203 | CLA | C1A-C2A-CAA-CBA |
| 21 | 2 | 1232 | CLA | C1A-C2A-CAA-CBA |
| 21 | 0 | 1503 | CLA | C1A-C2A-CAA-CBA |
| 25 | 1 | 5005 | LHG | C10-C11-C12-C13 |
| 31 | 0 | 5005 | SQD | C16-C17-C18-C19 |
| 21 | B | 1222 | CLA | C6-C7-C8-C9 |
| 21 | k | 1402 | CLA | CAA-CBA-CGA-O1A |
| 21 | 1 | 1125 | CLA | CAA-CBA-CGA-O1A |
| 26 | 2 | 5002 | LMG | C40-C41-C42-C43 |
| 21 | b | 1203 | CLA | O1A-CGA-O2A-C1 |
| 21 | B | 1202 | CLA | C2-C1-O2A-CGA |
| 21 | B | 1235 | CLA | C2-C1-O2A-CGA |
| 25 | 1 | 5001 | LHG | C18-C19-C20-C21 |
| 26 | 1 | 5004 | LMG | C34-C35-C36-C37 |
| 21 | 2 | 1214 | CLA | CBA-CGA-O2A-C1 |
| 21 | b | 1219 | CLA | CAA-CBA-CGA-O1A |
| 21 | l | 1503 | CLA | CAA-CBA-CGA-O1A |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | 2 | 1219 | CLA | CAA-CBA-CGA-O1A |
| 25 | a | 5005 | LHG | O9-C7-C8-C9 |
| 26 | A | 5004 | LMG | O10-C28-C29-C30 |
| 31 | B | 5008 | SQD | C28-C29-C30-C31 |
| 25 | F | 5002 | LHG | C4-C5-C6-O8 |
| 31 | L | 5002 | SQD | O6-C44-C45-C46 |
| 21 | A | 1114 | CLA | CAA-CBA-CGA-O2A |
| 21 | 2 | 1211 | CLA | CAA-CBA-CGA-O2A |
| 25 | A | 5007 | LHG | O7-C7-C8-C9 |
| 25 | A | 5003 | LHG | C24-C25-C26-C27 |
| 25 | l | 5004 | LHG | C29-C30-C31-C32 |
| 21 | A | 1114 | CLA | C13-C15-C16-C17 |
| 25 | L | 5005 | LHG | C29-C30-C31-C32 |
| 21 | a | 1129 | CLA | CAA-CBA-CGA-O1A |
| 21 | 1 | 1136 | CLA | CAA-CBA-CGA-O1A |
| 21 | A | 1112 | CLA | C10-C11-C12-C13 |
| 25 | 1 | 5005 | LHG | C5-C6-O8-C23 |
| 25 | A | 5005 | LHG | C25-C26-C27-C28 |
| 21 | 1 | 1129 | CLA | CAA-CBA-CGA-O2A |
| 21 | 1 | 1132 | CLA | C5-C6-C7-C8 |
| 25 | l | 5001 | LHG | O9-C7-O7-C5 |
| 21 | A | 1113 | CLA | CAA-CBA-CGA-O1A |
| 21 | b | 1216 | CLA | CAA-CBA-CGA-O1A |
| 21 | 2 | 1230 | CLA | CAA-CBA-CGA-O1A |
| 25 | B | 5004 | LHG | O10-C23-C24-C25 |
| 25 | l | 5001 | LHG | O9-C7-C8-C9 |
| 26 | A | 5002 | LMG | O10-C28-C29-C30 |
| 26 | B | 5002 | LMG | O9-C10-C11-C12 |
| 35 | 0 | 6001 | LMT | C2'-C1'-O1'-C1 |
| 21 | 1 | 1101 | CLA | C5-C6-C7-C8 |
| 25 | M | 5001 | LHG | C3-O3-P-O5 |
| 25 | a | 5007 | LHG | C3-O3-P-O5 |
| 25 | 6 | 5001 | LHG | C3-O3-P-O5 |
| 25 | A | 5003 | LHG | C14-C15-C16-C17 |
| 25 | a | 5001 | LHG | C26-C27-C28-C29 |
| 21 | b | 1215 | CLA | CAA-CBA-CGA-O1A |
| 21 | b | 1230 | CLA | CAA-CBA-CGA-O1A |
| 21 | 1 | 1107 | CLA | CAA-CBA-CGA-O1A |
| 21 | 2 | 1210 | CLA | CAA-CBA-CGA-O1A |
| 26 | A | 5004 | LMG | O9-C10-C11-C12 |
| 26 | b | 5002 | LMG | O9-C10-C11-C12 |
| 21 | j | 1303 | CLA | CAA-CBA-CGA-O2A |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | A | 1127 | CLA | C3-C5-C6-C7 |
| 24 | A | 4019 | BCR | C23-C24-C25-C26 |
| 24 | B | 4018 | BCR | C23-C24-C25-C26 |
| 24 | L | 4022 | BCR | C23-C24-C25-C26 |
| 24 | a | 4001 | BCR | C5-C6-C7-C8 |
| 24 | a | 4003 | BCR | C5-C6-C7-C8 |
| 24 | i | 4018 | BCR | C5-C6-C7-C8 |
| 24 | 1 | 4001 | BCR | C5-C6-C7-C8 |
| 24 | 1 | 4007 | BCR | C5-C6-C7-C8 |
| 24 | 1 | 4008 | BCR | C5-C6-C7-C8 |
| 24 | 8 | 4001 | BCR | C5-C6-C7-C8 |
| 30 | M | 4021 | ECH | C1-C6-C7-C8 |
| 21 | 1 | 1111 | CLA | C15-C16-C17-C18 |
| 21 | L | 1502 | CLA | CAA-CBA-CGA-O1A |
| 21 | 1 | 1108 | CLA | CAA-CBA-CGA-O1A |
| 26 | 2 | 5002 | LMG | O9-C10-C11-C12 |
| 26 | A | 5004 | LMG | C13-C14-C15-C16 |
| 21 | B | 1204 | CLA | CAA-CBA-CGA-O2A |
| 21 | a | 1136 | CLA | CAA-CBA-CGA-O2A |
| 21 | b | 1211 | CLA | CAA-CBA-CGA-O2A |
| 21 | 2 | 1234 | CLA | CAA-CBA-CGA-O2A |
| 21 | 1 | 1109 | CLA | C16-C17-C18-C20 |
| 26 | b | 5007 | LMG | C18-C19-C20-C21 |
| 24 | l | 4019 | BCR | C10-C11-C12-C13 |
| 21 | A | 1128 | CLA | C2A-CAA-CBA-CGA |
| 21 | B | 1209 | CLA | C2A-CAA-CBA-CGA |
| 21 | A | 1116 | CLA | CAA-CBA-CGA-O1A |
| 21 | A | 1136 | CLA | CAA-CBA-CGA-O1A |
| 21 | a | 1128 | CLA | CAA-CBA-CGA-O1A |
| 25 | l | 5004 | LHG | O9-C7-C8-C9 |
| 21 | b | 1221 | CLA | C10-C11-C12-C13 |
| 21 | 8 | 1401 | CLA | CAA-CBA-CGA-O1A |
| 21 | B | 1214 | CLA | CAA-CBA-CGA-O2A |
| 21 | 1 | 1115 | CLA | CAA-CBA-CGA-O2A |
| 21 | b | 1021 | CLA | C8-C10-C11-C12 |
| 25 | a | 5001 | LHG | O10-C23-C24-C25 |
| 21 | A | 1131 | CLA | C4-C3-C5-C6 |
| 21 | B | 1206 | CLA | C4-C3-C5-C6 |
| 21 | j | 1302 | CLA | C4-C3-C5-C6 |
| 24 | A | 4019 | BCR | C13-C14-C15-C16 |
| 25 | A | 5005 | LHG | C24-C25-C26-C27 |
| 21 | A | 1108 | CLA | CAD-CBD-CGD-O1D |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | A | 1114 | CLA | CAD-CBD-CGD-O1D |
| 21 | A | 1119 | CLA | CAD-CBD-CGD-O1D |
| 21 | A | 1121 | CLA | CAD-CBD-CGD-O1D |
| 21 | B | 1224 | CLA | CAD-CBD-CGD-O1D |
| 21 | B | 1240 | CLA | CAD-CBD-CGD-O1D |
| 21 | a | 1119 | CLA | CAD-CBD-CGD-O1D |
| 21 | a | 1133 | CLA | CAD-CBD-CGD-O1D |
| 21 | b | 1231 | CLA | CAD-CBD-CGD-O1D |
| 21 | 1 | 1011 | CLA | CAD-CBD-CGD-O1D |
| 21 | 1 | 1109 | CLA | CAD-CBD-CGD-O1D |
| 21 | 1 | 1134 | CLA | CAD-CBD-CGD-O1D |
| 21 | 2 | 1201 | CLA | CAD-CBD-CGD-O1D |
| 21 | 2 | 1213 | CLA | CAD-CBD-CGD-O1D |
| 21 | 2 | 1215 | CLA | CAD-CBD-CGD-O1D |
| 31 | f | 5001 | SQD | O5-C5-C6-S |
| 25 | A | 5007 | LHG | O9-C7-C8-C9 |
| 21 | A | 1106 | CLA | CAA-CBA-CGA-O2A |
| 21 | b | 1021 | CLA | CAA-CBA-CGA-O2A |
| 25 | F | 5002 | LHG | O7-C7-C8-C9 |
| 25 | 1 | 5005 | LHG | O8-C23-C24-C25 |
| 21 | B | 1219 | CLA | C8-C10-C11-C12 |
| 21 | a | 1131 | CLA | C13-C15-C16-C17 |
| 21 | 1 | 1104 | CLA | C15-C16-C17-C18 |
| 21 | A | 1105 | CLA | C6-C7-C8-C9 |
| 21 | A | 1134 | CLA | C6-C7-C8-C9 |
| 21 | B | 1202 | CLA | C11-C12-C13-C14 |
| 21 | B | 1231 | CLA | C11-C12-C13-C14 |
| 21 | a | 1011 | CLA | C11-C12-C13-C14 |
| 21 | a | 1119 | CLA | C6-C7-C8-C9 |
| 21 | b | 1207 | CLA | C6-C7-C8-C9 |
| 21 | b | 1213 | CLA | C6-C7-C8-C9 |
| 21 | b | 1201 | CLA | C11-C12-C13-C14 |
| 21 | 1 | 1103 | CLA | C11-C10-C8-C9 |
| 21 | 2 | 1237 | CLA | C6-C7-C8-C9 |
| 21 | 2 | 1202 | CLA | C14-C13-C15-C16 |
| 21 | 2 | 1204 | CLA | C11-C12-C13-C14 |
| 21 | 2 | 1205 | CLA | C11-C12-C13-C14 |
| 22 | B | 2002 | PQN | C24-C23-C25-C26 |
| 22 | 2 | 2002 | PQN | C19-C18-C20-C21 |
| 21 | 2 | 1224 | CLA | CAA-CBA-CGA-O1A |
| 31 | F | 5001 | SQD | O10-C23-C24-C25 |
| 25 | 1 | 5002 | LHG | C29-C30-C31-C32 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 26 | 2 | 5005 | LMG | C16-C17-C18-C19 |
| 21 | B | 1213 | CLA | C3-C5-C6-C7 |
| 21 | B | 1216 | CLA | CAA-CBA-CGA-O2A |
| 21 | B | 1220 | CLA | CAA-CBA-CGA-O2A |
| 21 | L | 1503 | CLA | CAA-CBA-CGA-O2A |
| 21 | a | 1134 | CLA | CAA-CBA-CGA-O2A |
| 21 | b | 1226 | CLA | CAA-CBA-CGA-O2A |
| 25 | b | 5004 | LHG | O8-C23-C24-C25 |
| 21 | 2 | 1023 | CLA | C8-C10-C11-C12 |
| 21 | 2 | 1220 | CLA | CAA-CBA-CGA-O1A |
| 25 | 1 | 5005 | LHG | O10-C23-C24-C25 |
| 25 | l | 5001 | LHG | C24-C25-C26-C27 |
| 35 | 0 | 6001 | LMT | C6-C7-C8-C9 |
| 37 | L | 5004 | DGD | CDA-CEA-CFA-CGA |
| 21 | A | 1128 | CLA | CAA-CBA-CGA-O2A |
| 21 | A | 1135 | CLA | CAA-CBA-CGA-O2A |
| 21 | B | 1217 | CLA | CAA-CBA-CGA-O2A |
| 21 | B | 1226 | CLA | CAA-CBA-CGA-O2A |
| 21 | 8 | 1402 | CLA | CAA-CBA-CGA-O2A |
| 25 | l | 5003 | LHG | O8-C23-C24-C25 |
| 25 | 1 | 5003 | LHG | O7-C7-C8-C9 |
| 21 | a | 1111 | CLA | C15-C16-C17-C18 |
| 26 | K | 5009 | LMG | O9-C10-C11-C12 |
| 31 | L | 5001 | SQD | O49-C7-C8-C9 |
| 26 | A | 5004 | LMG | C4-C5-C6-O5 |
| 21 | B | 1221 | CLA | C4-C3-C5-C6 |
| 21 | 1 | 1140 | CLA | C5-C6-C7-C8 |
| 21 | A | 1102 | CLA | C12-C13-C15-C16 |
| 21 | A | 1105 | CLA | C6-C7-C8-C10 |
| 21 | A | 1110 | CLA | C11-C12-C13-C15 |
| 21 | A | 1111 | CLA | C6-C7-C8-C10 |
| 21 | A | 1115 | CLA | C12-C13-C15-C16 |
| 21 | A | 1118 | CLA | C11-C10-C8-C7 |
| 21 | A | 1119 | CLA | C11-C10-C8-C7 |
| 21 | A | 1121 | CLA | C11-C10-C8-C7 |
| 21 | A | 1125 | CLA | C11-C12-C13-C15 |
| 21 | A | 1127 | CLA | C6-C7-C8-C10 |
| 21 | A | 1101 | CLA | C3A-C2A-CAA-CBA |
| 21 | B | 1202 | CLA | C11-C12-C13-C15 |
| 21 | B | 1205 | CLA | C12-C13-C15-C16 |
| 21 | B | 1220 | CLA | C6-C7-C8-C10 |
| 21 | B | 1220 | CLA | C11-C10-C8-C7 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | B | 1231 | CLA | C11-C12-C13-C15 |
| 21 | L | 1502 | CLA | C11-C12-C13-C15 |
| 21 | a | 1110 | CLA | C2-C3-C5-C6 |
| 21 | a | 1114 | CLA | C3A-C2A-CAA-CBA |
| 21 | a | 1125 | CLA | C12-C13-C15-C16 |
| 21 | a | 1131 | CLA | C11-C10-C8-C7 |
| 21 | a | 1136 | CLA | C11-C12-C13-C15 |
| 21 | b | 1203 | CLA | C2-C3-C5-C6 |
| 21 | b | 1203 | CLA | C11-C12-C13-C15 |
| 21 | b | 1213 | CLA | C6-C7-C8-C10 |
| 21 | b | 1213 | CLA | C12-C13-C15-C16 |
| 21 | b | 1223 | CLA | C6-C7-C8-C10 |
| 21 | b | 1228 | CLA | C6-C7-C8-C10 |
| 21 | b | 1229 | CLA | C6-C7-C8-C10 |
| 21 | b | 1239 | CLA | C12-C13-C15-C16 |
| 21 | b | 1240 | CLA | C11-C12-C13-C15 |
| 21 | b | 1201 | CLA | C11-C12-C13-C15 |
| 21 | 1 | 1106 | CLA | C12-C13-C15-C16 |
| 21 | 1 | 1115 | CLA | C6-C7-C8-C10 |
| 21 | 1 | 1134 | CLA | C11-C10-C8-C7 |
| 21 | 1 | 1101 | CLA | C3A-C2A-CAA-CBA |
| 21 | 1 | 1101 | CLA | C11-C10-C8-C7 |
| 21 | 1 | 1012 | CLA | C3A-C2A-CAA-CBA |
| 21 | 2 | 1207 | CLA | C6-C7-C8-C10 |
| 21 | 2 | 1208 | CLA | C6-C7-C8-C10 |
| 21 | 2 | 1218 | CLA | C12-C13-C15-C16 |
| 21 | 2 | 1221 | CLA | C11-C10-C8-C7 |
| 21 | 2 | 1239 | CLA | C11-C12-C13-C15 |
| 21 | 0 | 1502 | CLA | C6-C7-C8-C10 |
| 22 | B | 2002 | PQN | C16-C17-C18-C20 |
| 21 | A | 1801 | CLA | CAA-CBA-CGA-O1A |
| 21 | a | 1122 | CLA | CAA-CBA-CGA-O1A |
| 21 | a | 1134 | CLA | CAA-CBA-CGA-O1A |
| 21 | a | 1101 | CLA | CAA-CBA-CGA-O1A |
| 21 | b | 1210 | CLA | CAA-CBA-CGA-O1A |
| 21 | b | 1226 | CLA | CAA-CBA-CGA-O1A |
| 21 | 0 | 1503 | CLA | CAA-CBA-CGA-O1A |
| 21 | B | 1208 | CLA | CAA-CBA-CGA-O2A |
| 21 | b | 1208 | CLA | CAA-CBA-CGA-O2A |
| 21 | b | 1232 | CLA | CAA-CBA-CGA-O2A |
| 21 | 1 | 1135 | CLA | CAA-CBA-CGA-O2A |
| 21 | 2 | 1207 | CLA | CAA-CBA-CGA-O2A |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | 2 | 1229 | CLA | CAA-CBA-CGA-O2A |
| 25 | A | 5003 | LHG | O7-C7-C8-C9 |
| 25 | a | 5007 | LHG | O8-C23-C24-C25 |
| 31 | B | 5008 | SQD | C27-C28-C29-C30 |
| 21 | A | 1109 | CLA | C5-C6-C7-C8 |
| 24 | 1 | 4003 | BCR | C17-C18-C19-C20 |
| 24 | 1 | 4012 | BCR | C17-C18-C19-C20 |
| 24 | 2 | 4014 | BCR | C17-C18-C19-C20 |
| 24 | 7 | 4013 | BCR | C17-C18-C19-C20 |
| 21 | A | 1135 | CLA | CAA-CBA-CGA-O1A |
| 21 | B | 1210 | CLA | CAA-CBA-CGA-O1A |
| 21 | b | 1208 | CLA | CAA-CBA-CGA-O1A |
| 21 | j | 1303 | CLA | CAA-CBA-CGA-O1A |
| 21 | 2 | 1207 | CLA | CAA-CBA-CGA-O1A |
| 24 | l | 4022 | BCR | C13-C14-C15-C16 |
| 34 | J | 4015 | ZEX | C33-C34-C35-C15 |
| 21 | l | 1503 | CLA | C16-C17-C18-C19 |
| 35 | l | 6001 | LMT | C2-C1-O1'-C1' |
| 21 | J | 1303 | CLA | CAA-CBA-CGA-O2A |
| 21 | 0 | 1503 | CLA | CAA-CBA-CGA-O2A |
| 26 | A | 5002 | LMG | C14-C15-C16-C17 |
| 35 | 0 | 6001 | LMT | O5'-C1'-O1'-C1 |
| 21 | B | 1211 | CLA | C5-C6-C7-C8 |
| 21 | b | 1219 | CLA | C10-C11-C12-C13 |
| 21 | b | 1223 | CLA | C10-C11-C12-C13 |
| 21 | 2 | 1218 | CLA | C8-C10-C11-C12 |
| 21 | A | 1114 | CLA | CAA-CBA-CGA-O1A |
| 21 | B | 1226 | CLA | CAA-CBA-CGA-O1A |
| 25 | A | 5003 | LHG | O9-C7-C8-C9 |
| 25 | a | 5007 | LHG | O9-C7-C8-C9 |
| 25 | 1 | 5003 | LHG | O9-C7-C8-C9 |
| 26 | b | 5005 | LMG | O10-C28-C29-C30 |
| 25 | l | 5002 | LHG | C9-C10-C11-C12 |
| 21 | A | 1125 | CLA | CAA-CBA-CGA-O2A |
| 21 | B | 1205 | CLA | CAA-CBA-CGA-O2A |
| 21 | B | 1234 | CLA | CAA-CBA-CGA-O2A |
| 21 | B | 1239 | CLA | CAA-CBA-CGA-O2A |
| 21 | a | 1118 | CLA | CAA-CBA-CGA-O2A |
| 21 | b | 1203 | CLA | CAA-CBA-CGA-O2A |
| 21 | k | 1401 | CLA | CAA-CBA-CGA-O2A |
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| 25 | 0 | 5002 | LHG | O7-C7-C8-C9 |

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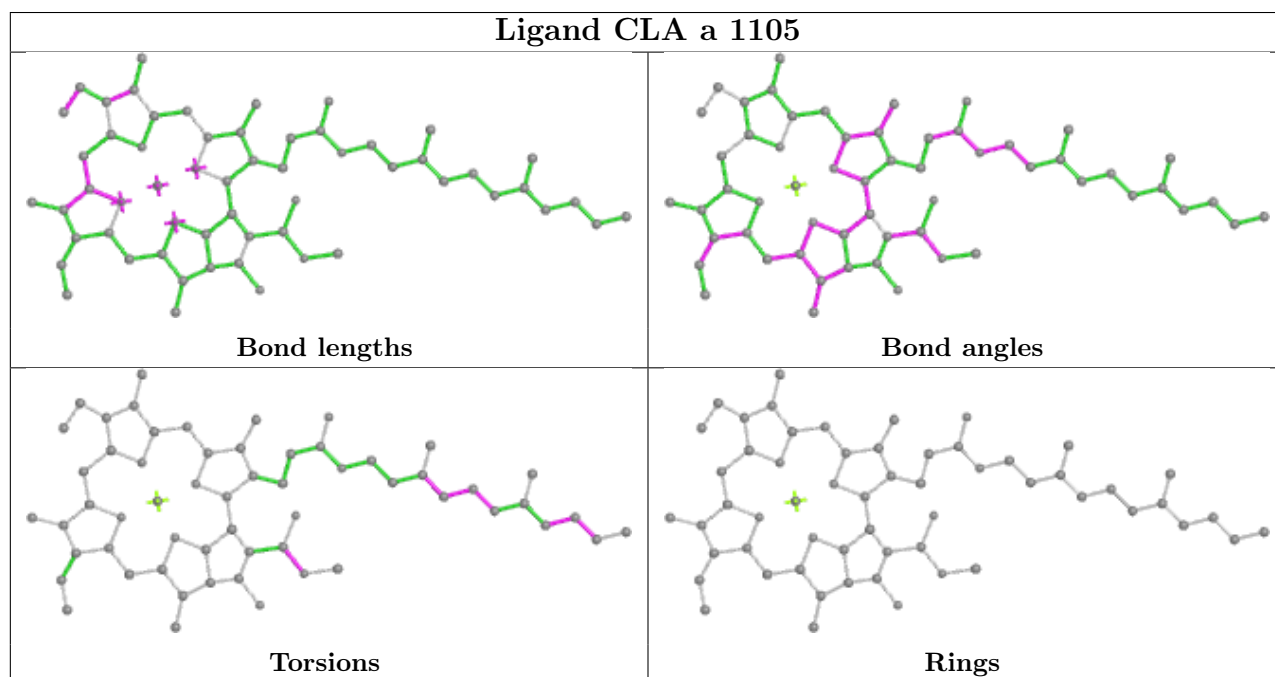
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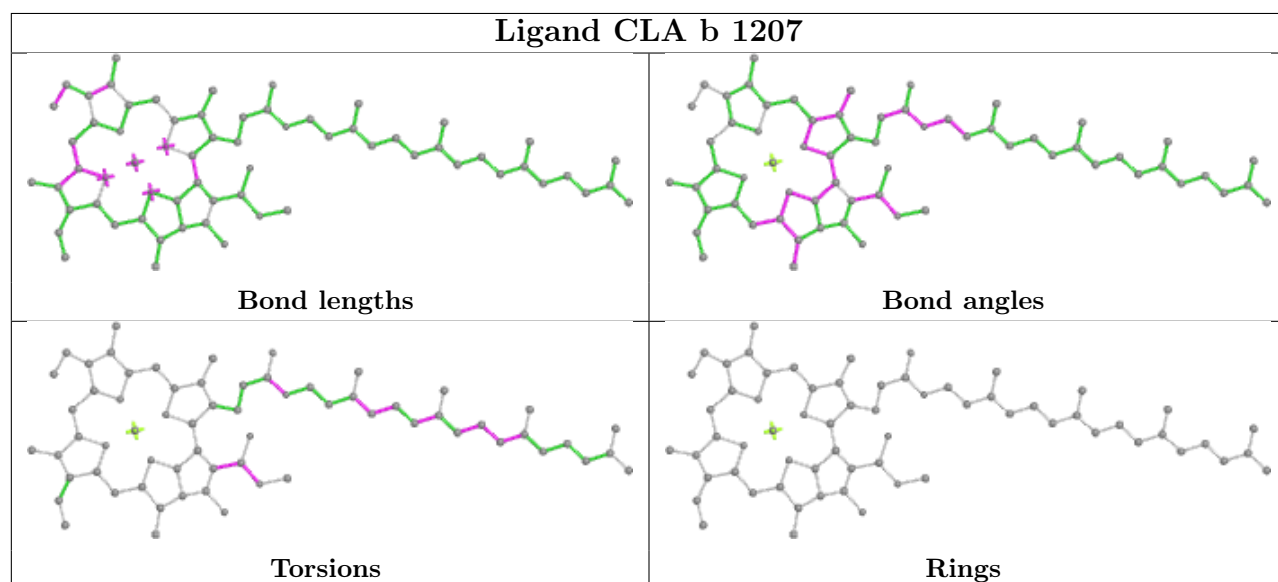
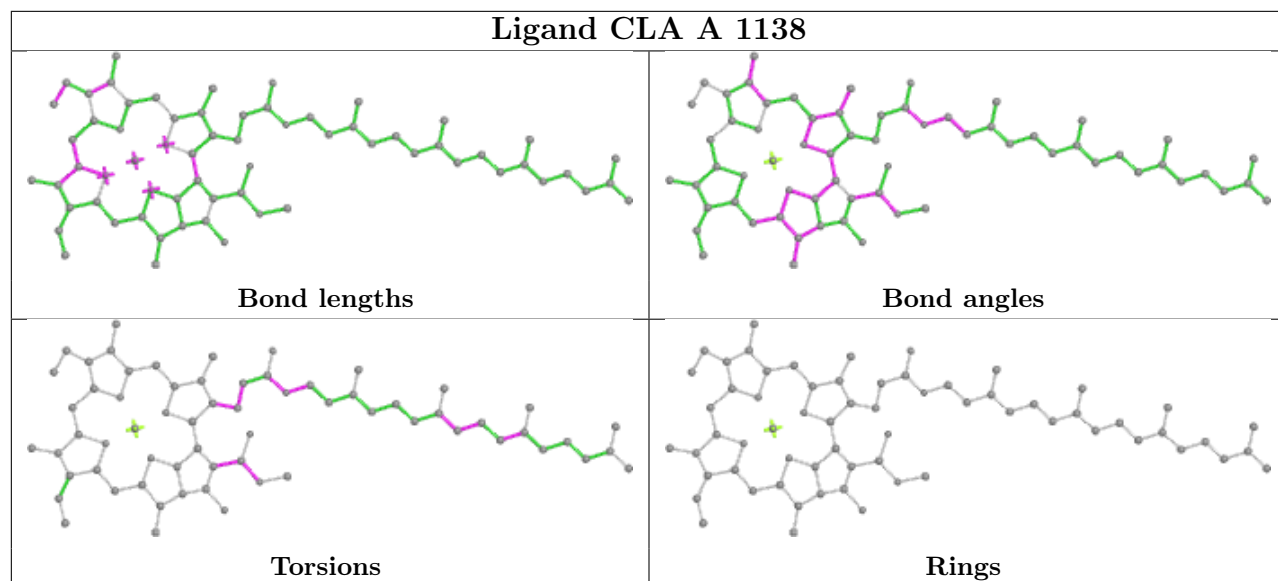
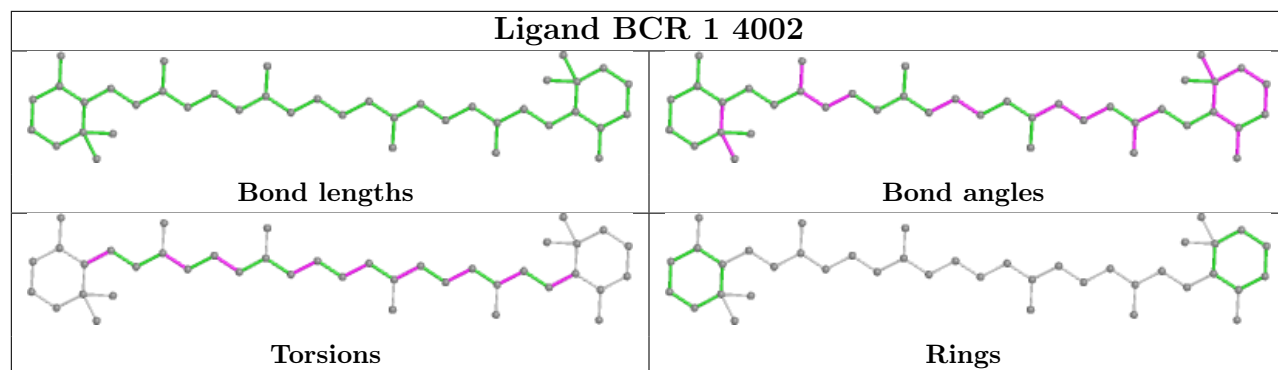
| Mol | Chain | Res | Type | Atoms |
|-----|-------|------|------|-----------------|
| 21 | A | 1105 | CLA | C10-C11-C12-C13 |
| 21 | 1 | 1120 | CLA | C8-C10-C11-C12 |
| 21 | B | 1208 | CLA | CAA-CBA-CGA-O1A |
| 21 | a | 1107 | CLA | CAA-CBA-CGA-O1A |
| 25 | b | 5004 | LHG | O10-C23-C24-C25 |
| 26 | 1 | 5004 | LMG | O9-C10-C11-C12 |
| 21 | A | 1102 | CLA | C13-C15-C16-C17 |
| 26 | b | 5007 | LMG | C30-C31-C32-C33 |
| 21 | A | 1126 | CLA | CAA-CBA-CGA-O2A |
| 21 | b | 1205 | CLA | CAA-CBA-CGA-O2A |

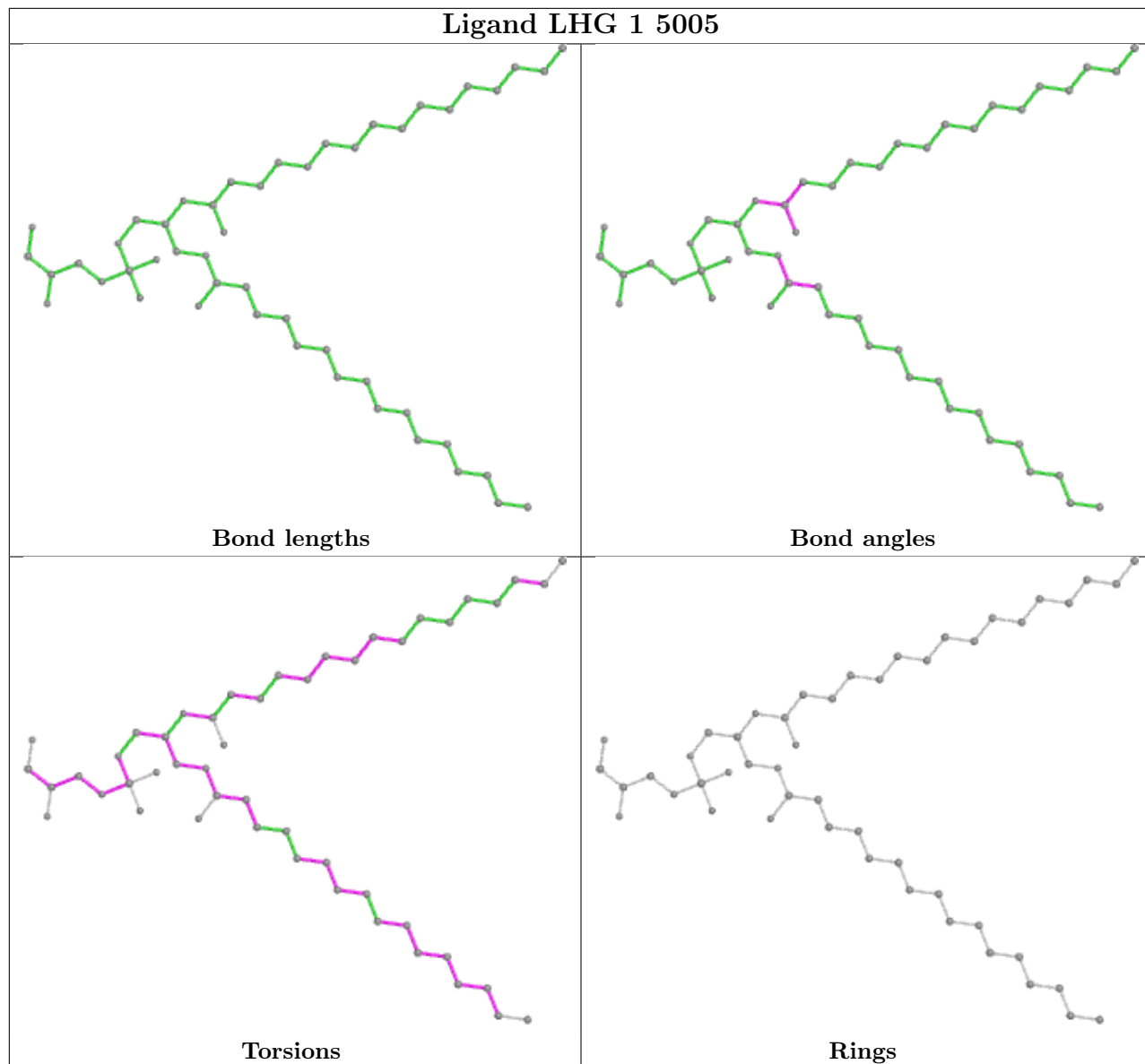
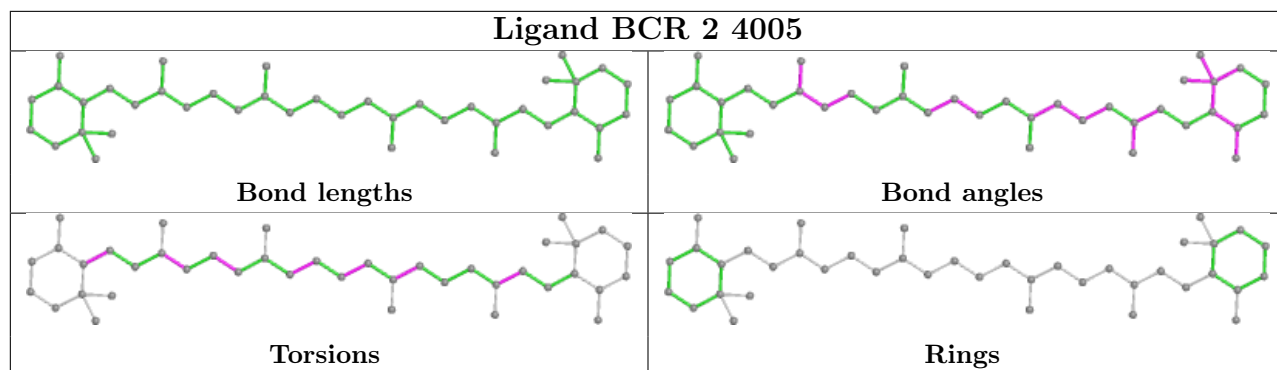
There are no ring outliers.

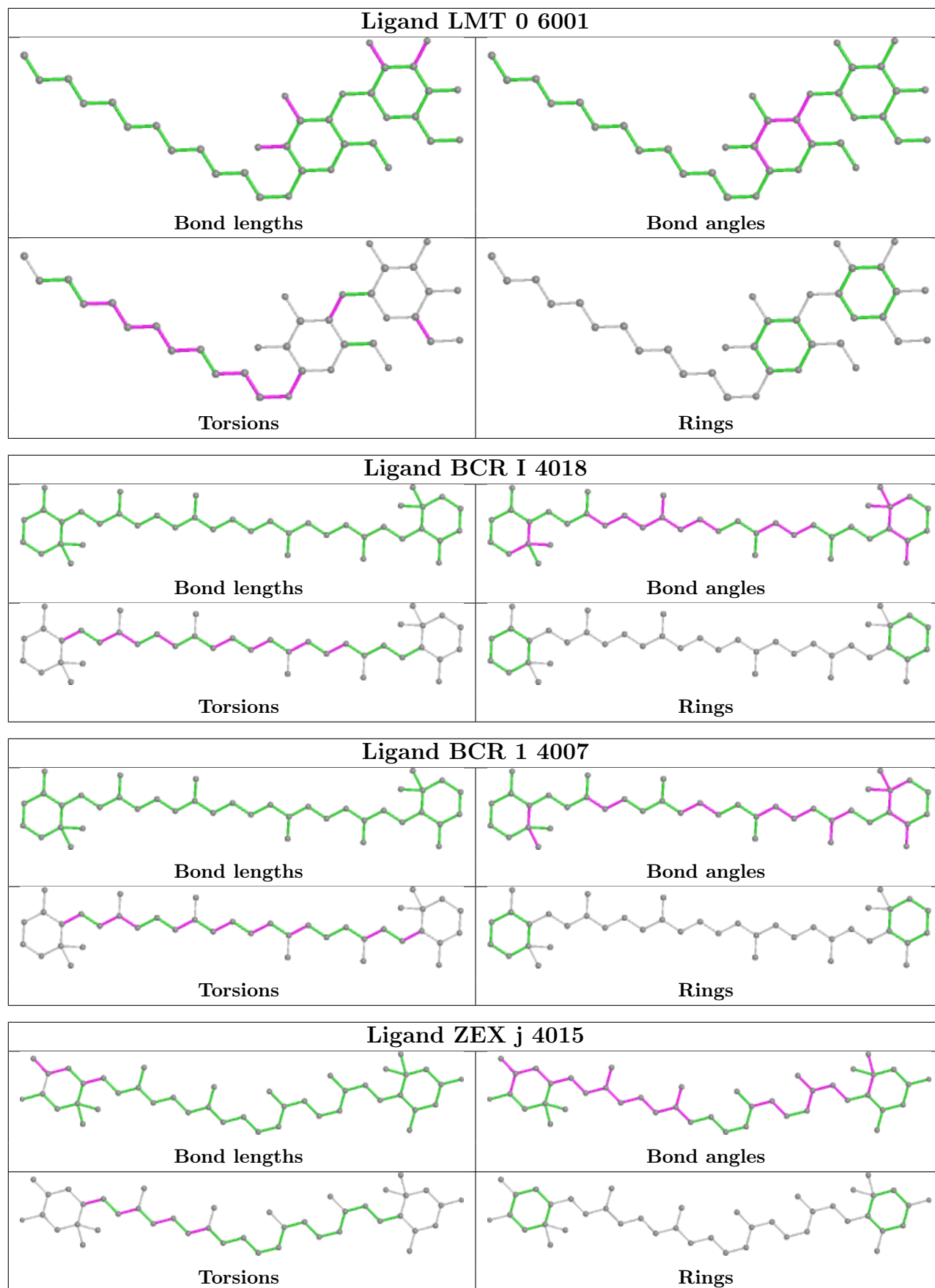
No monomer is involved in short contacts.

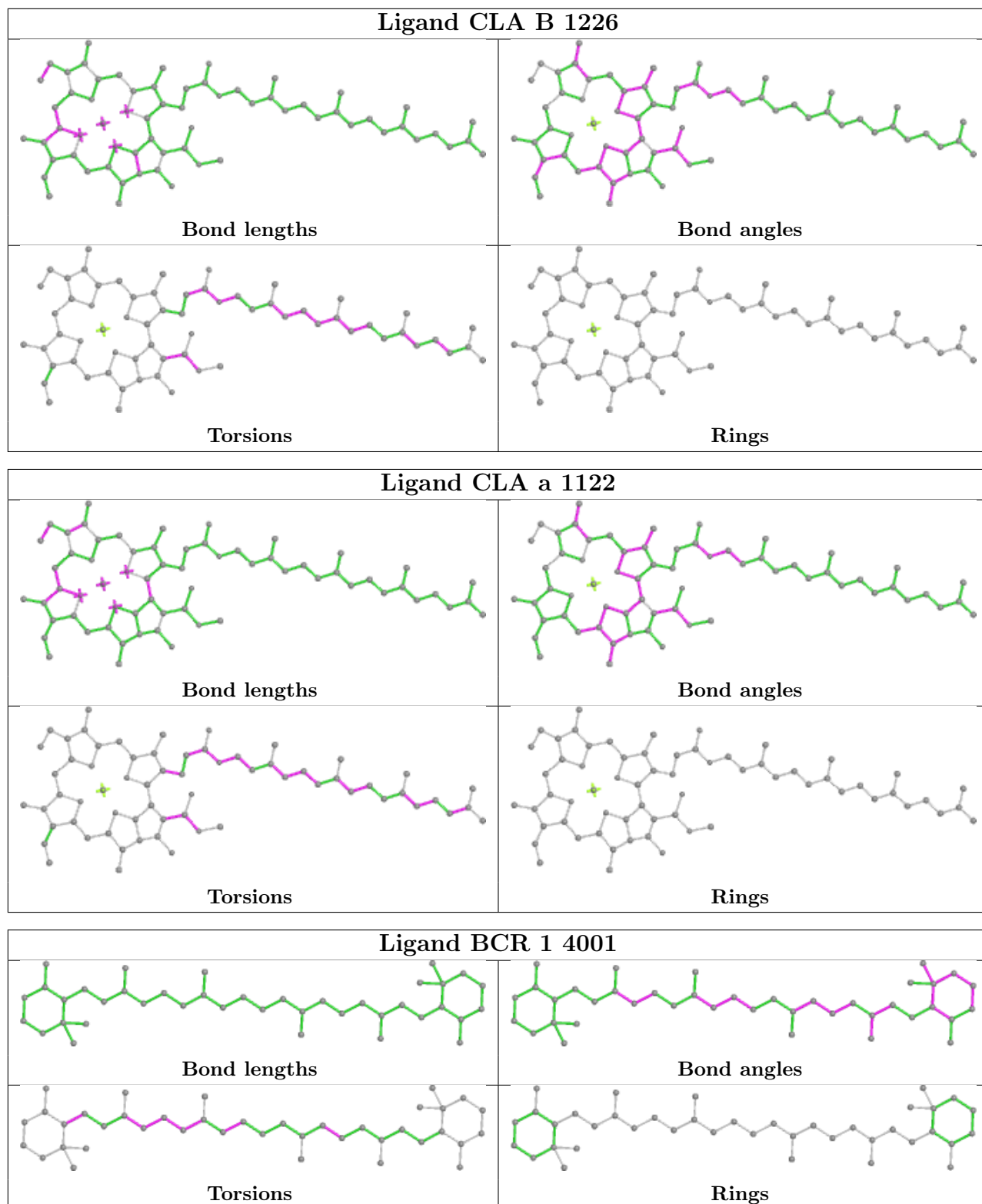
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

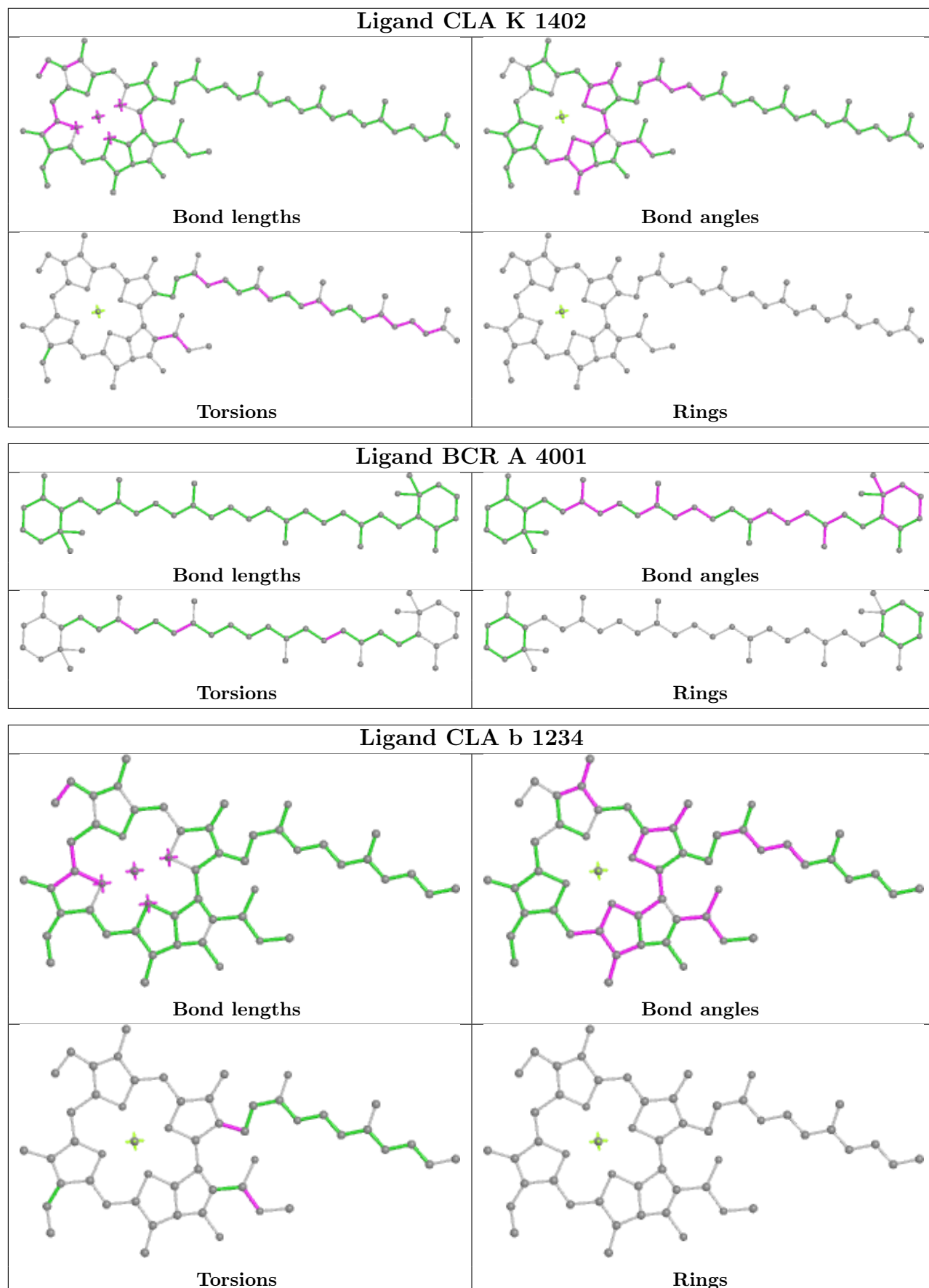


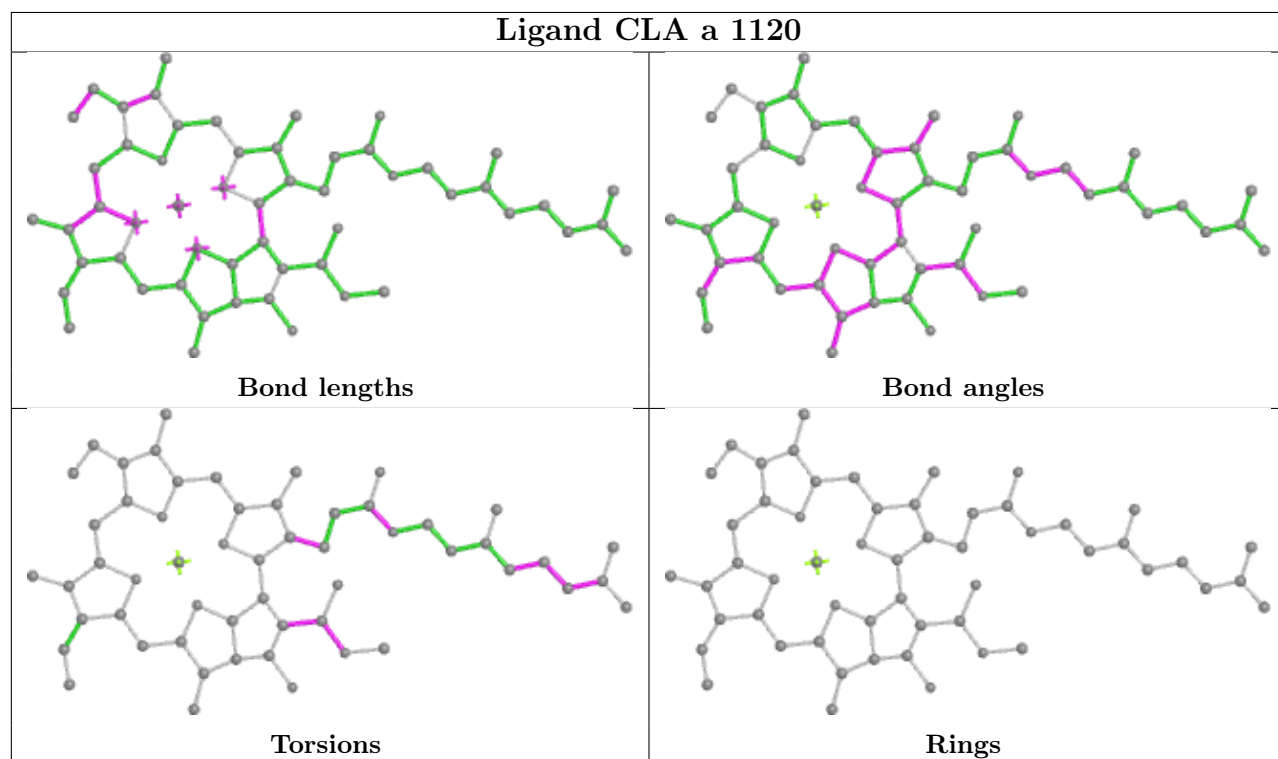
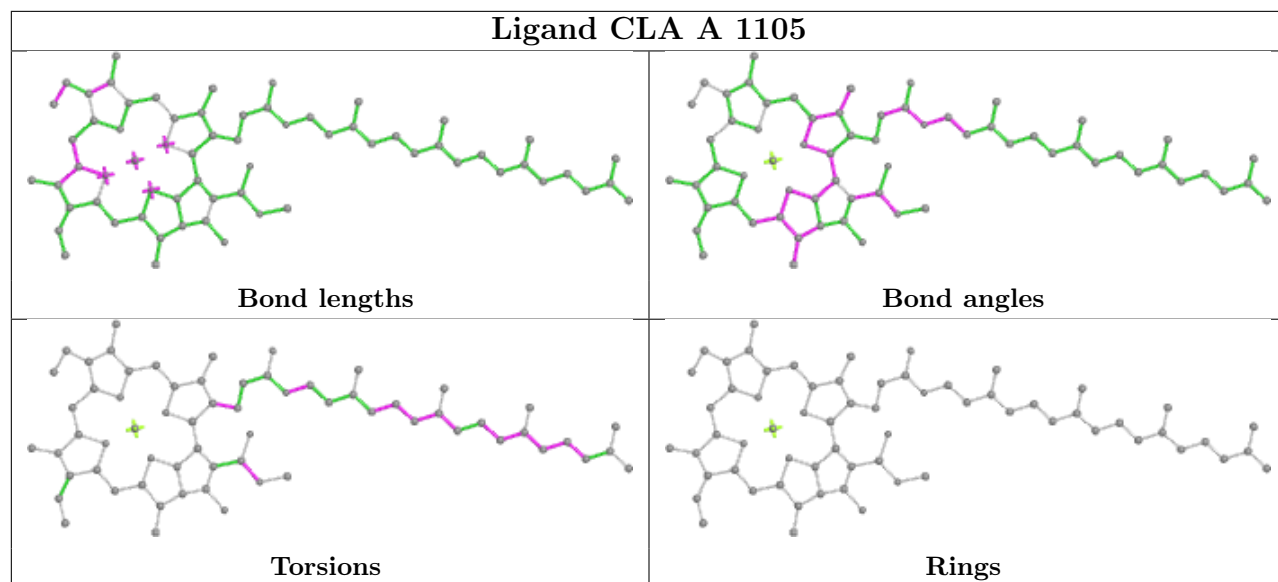


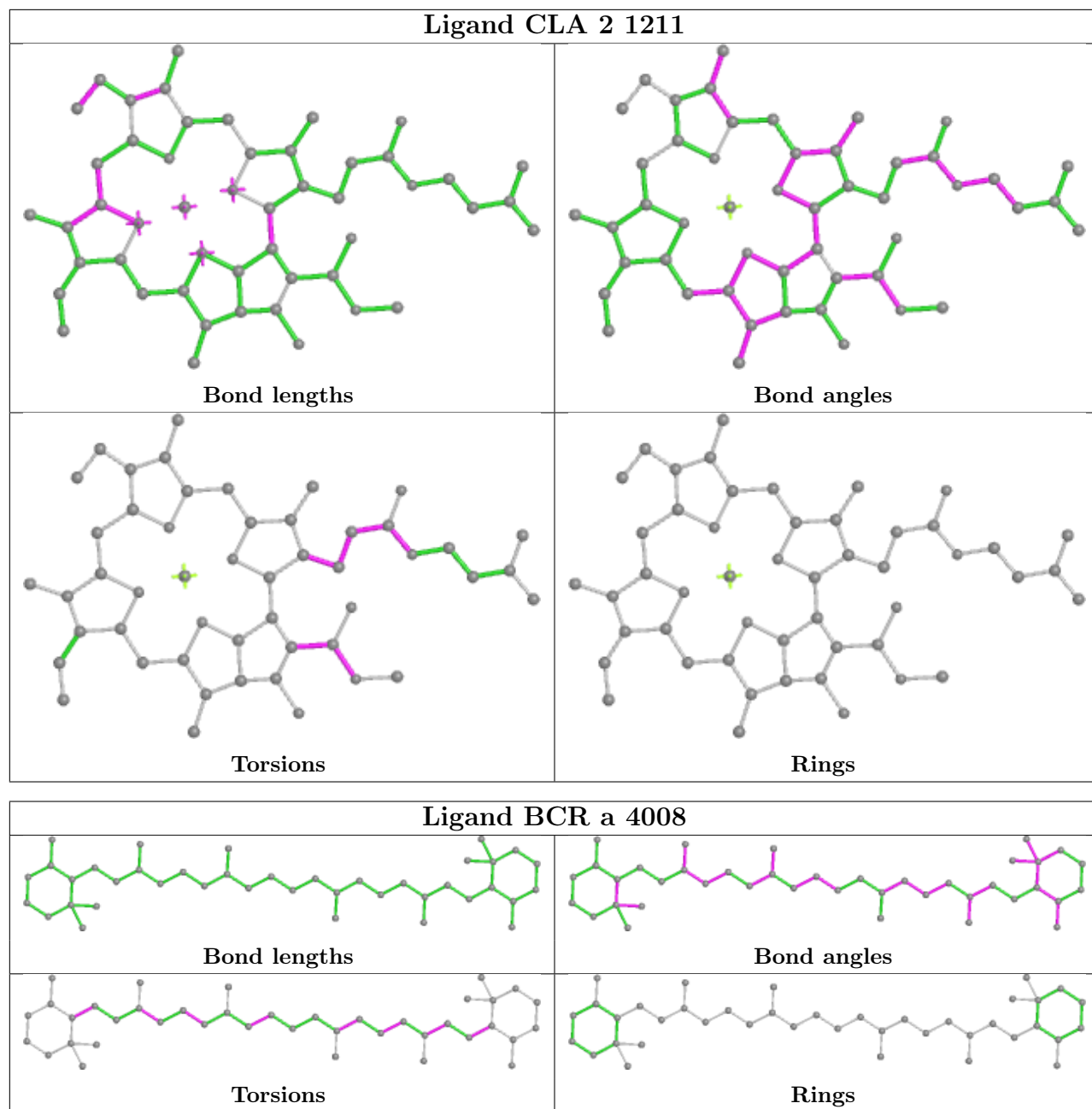


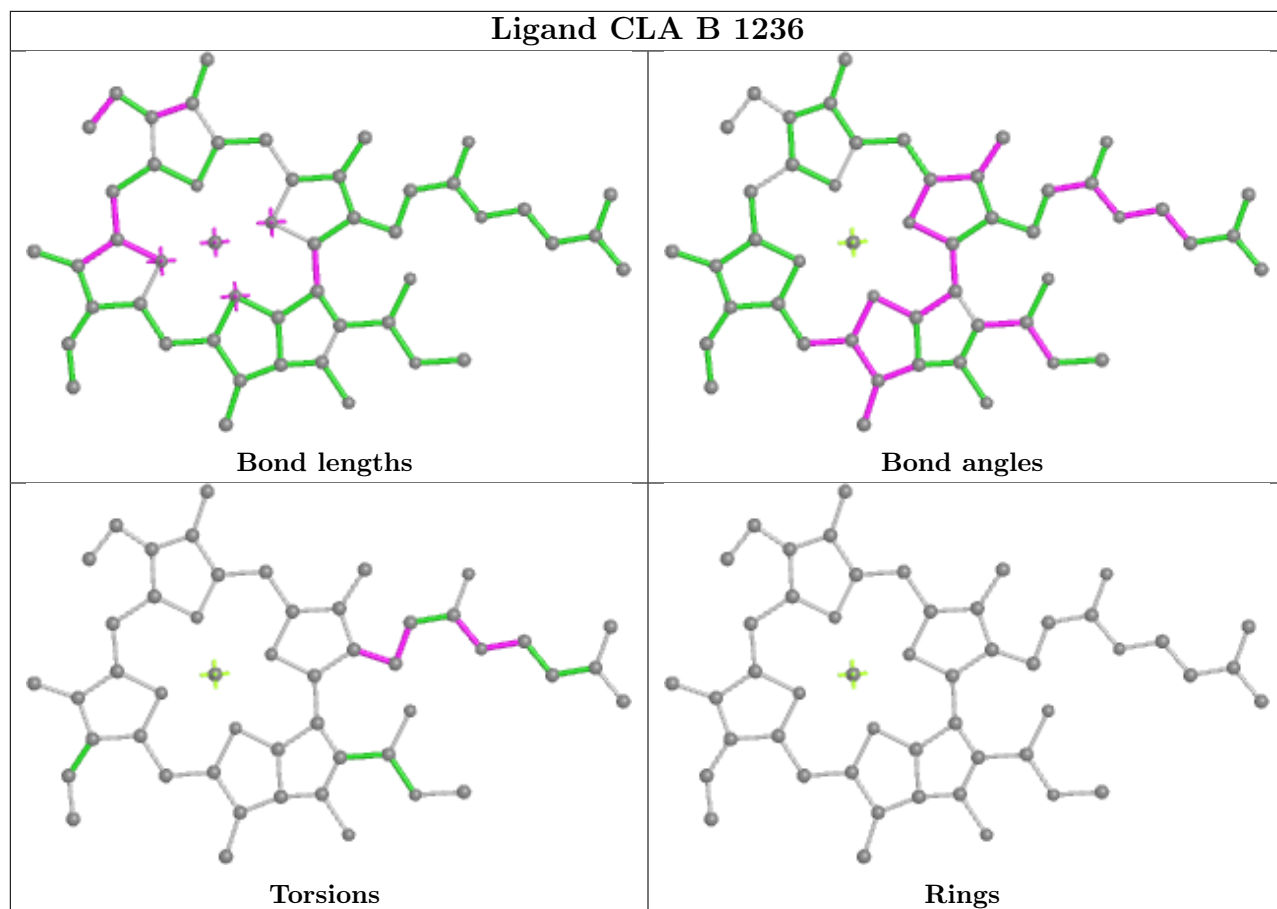


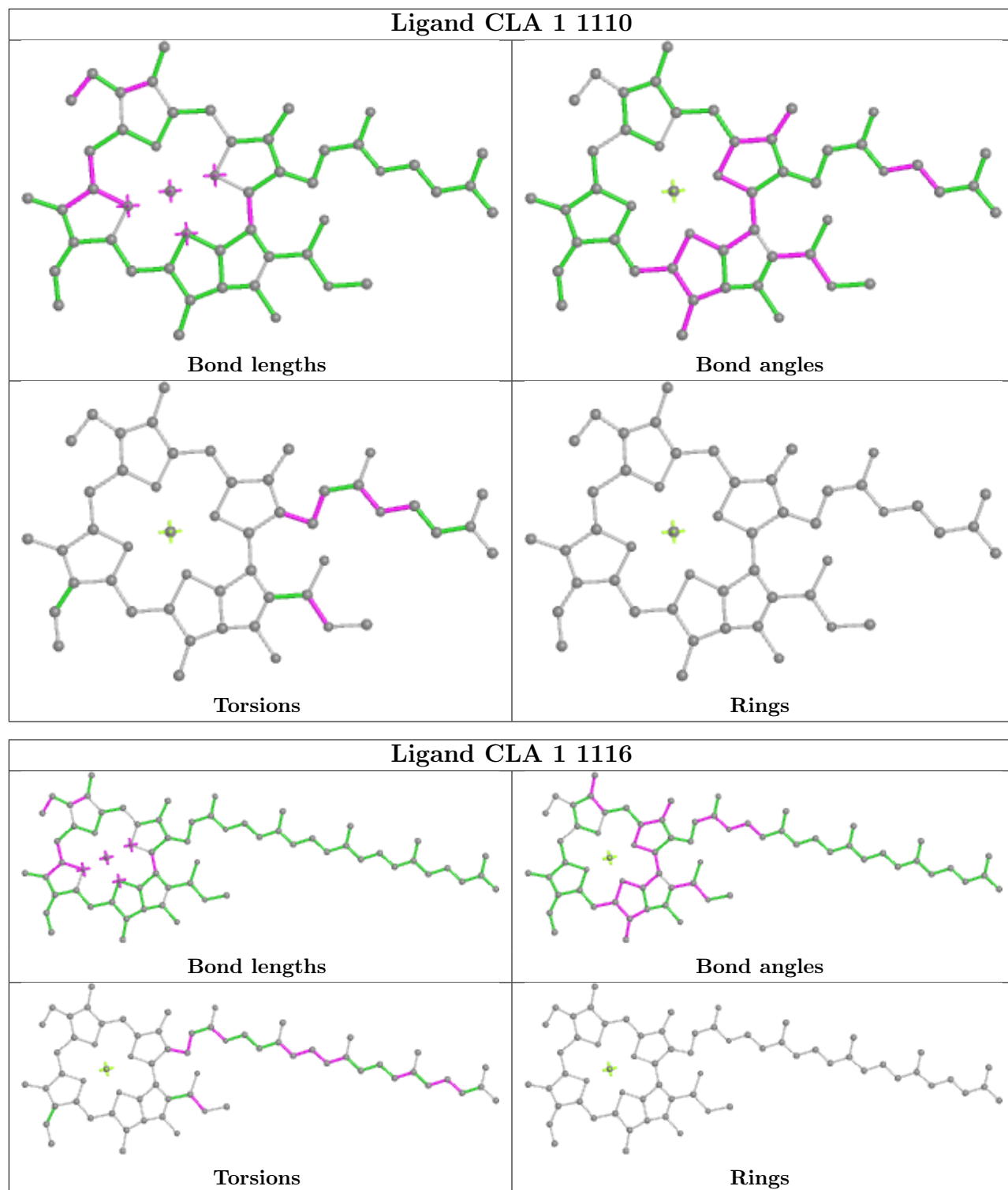


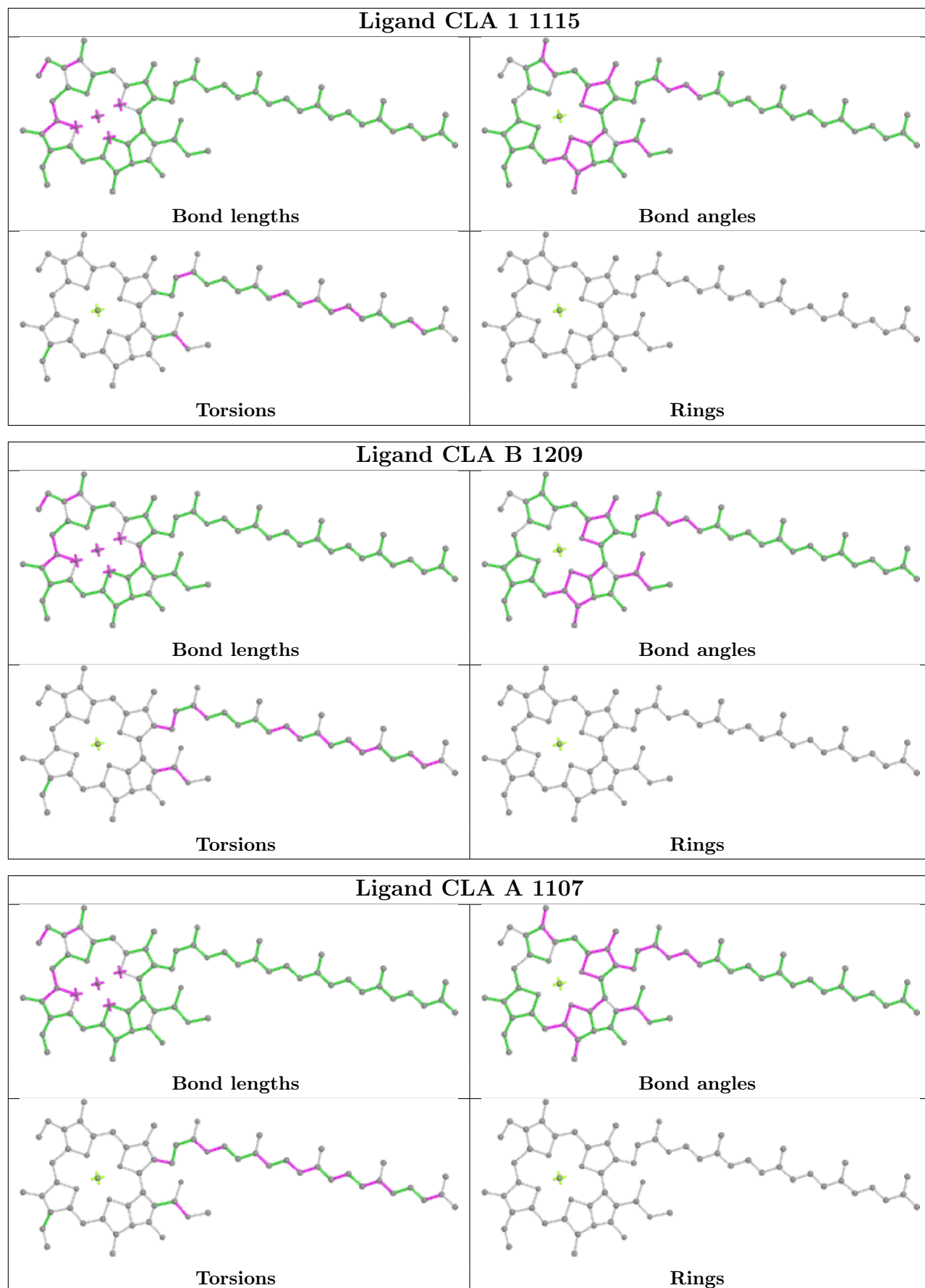


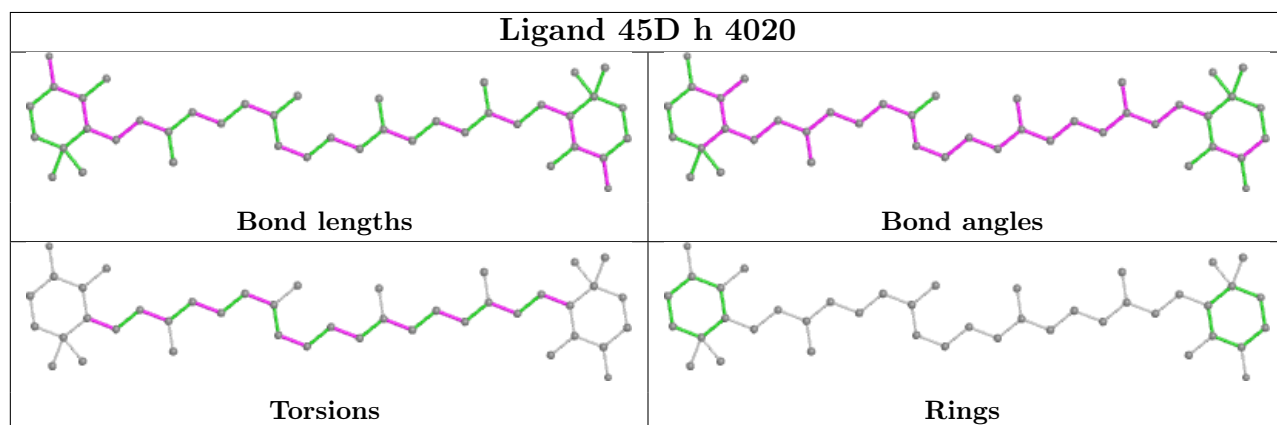
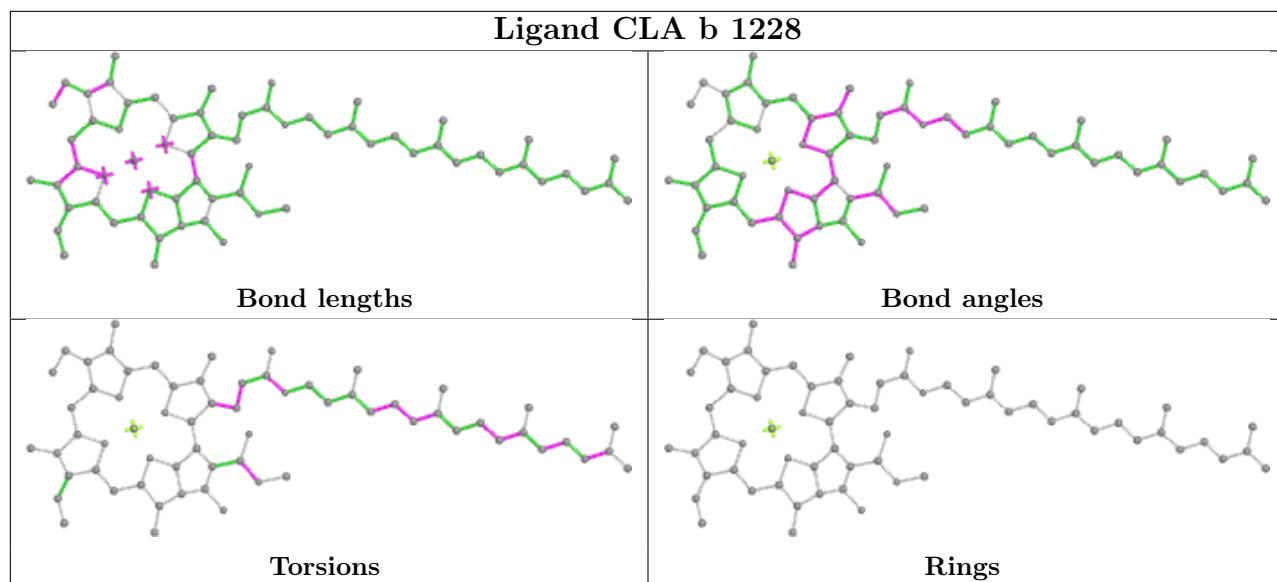


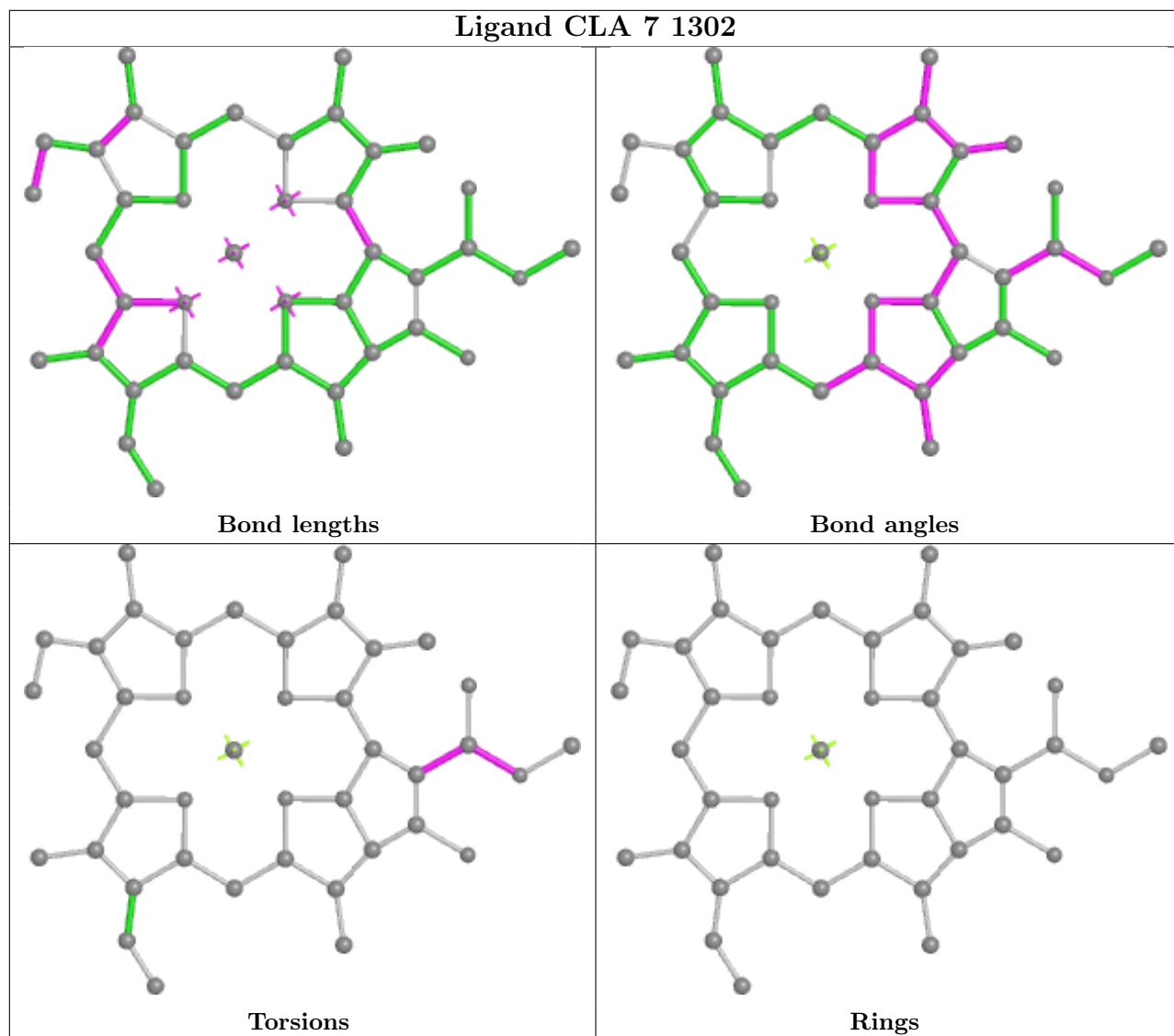


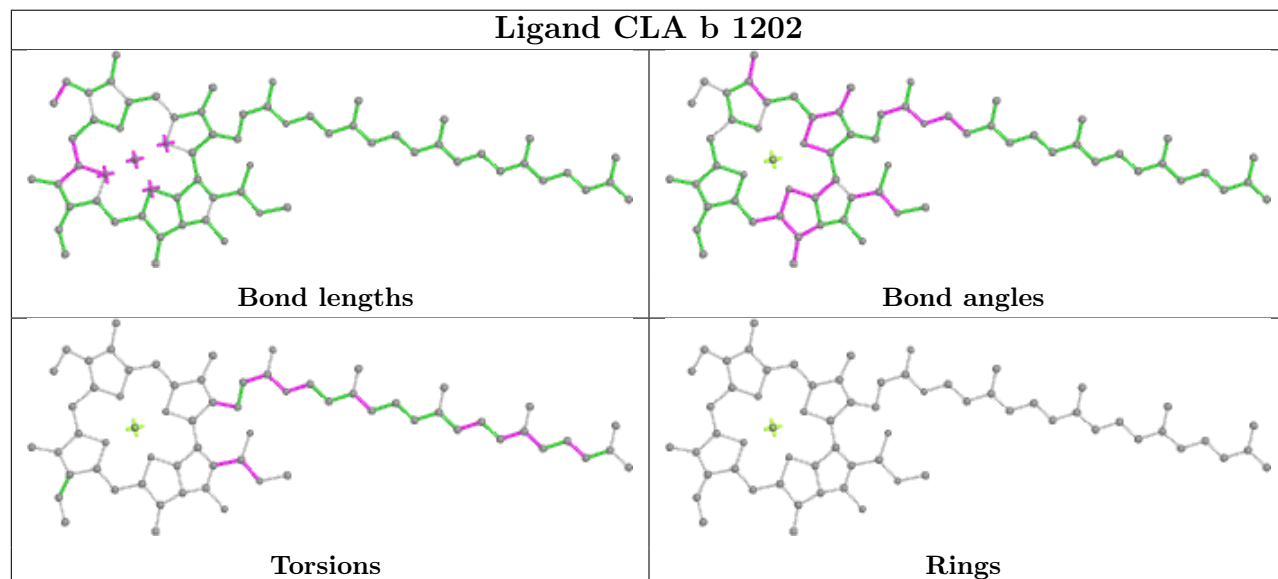
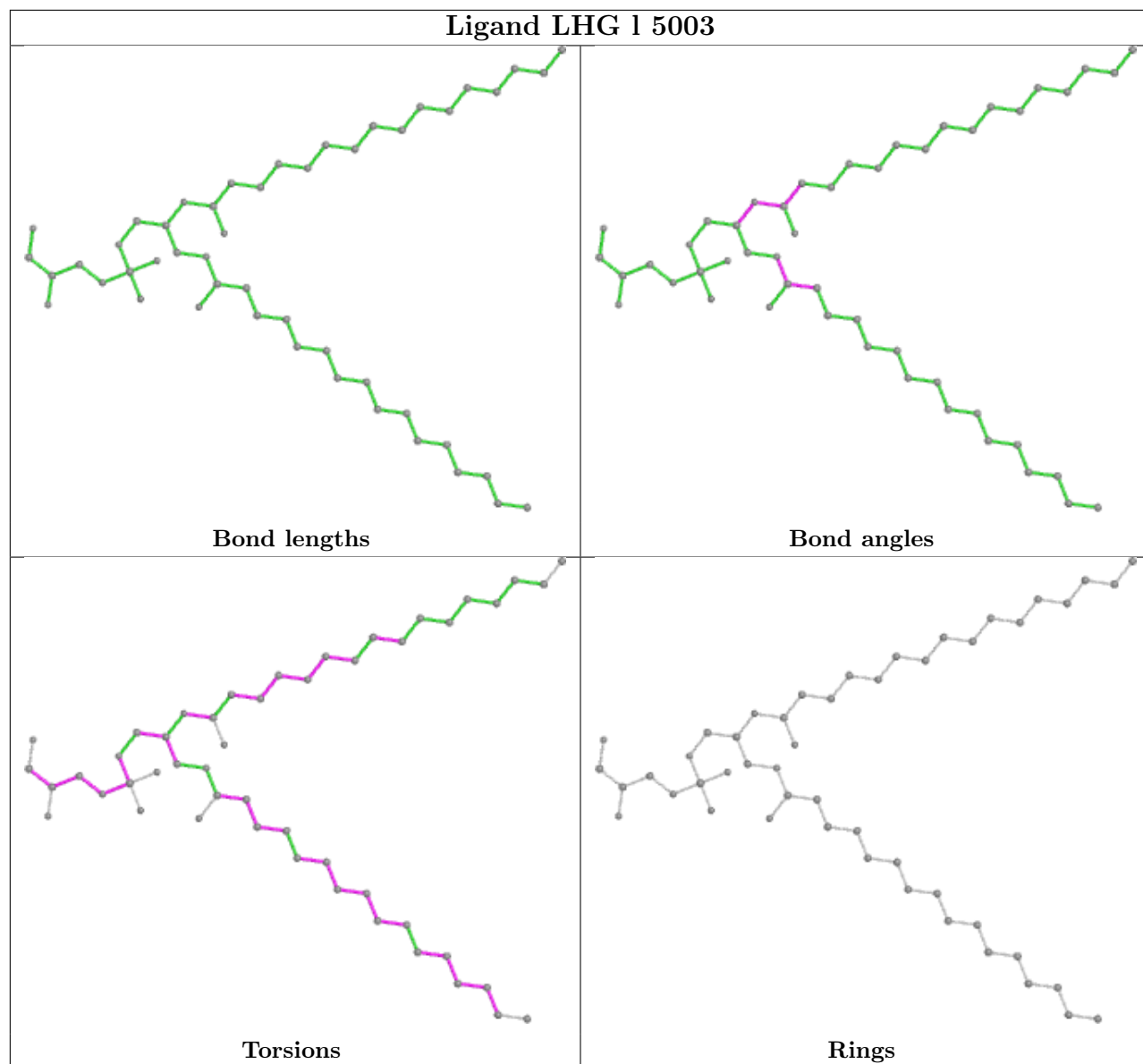


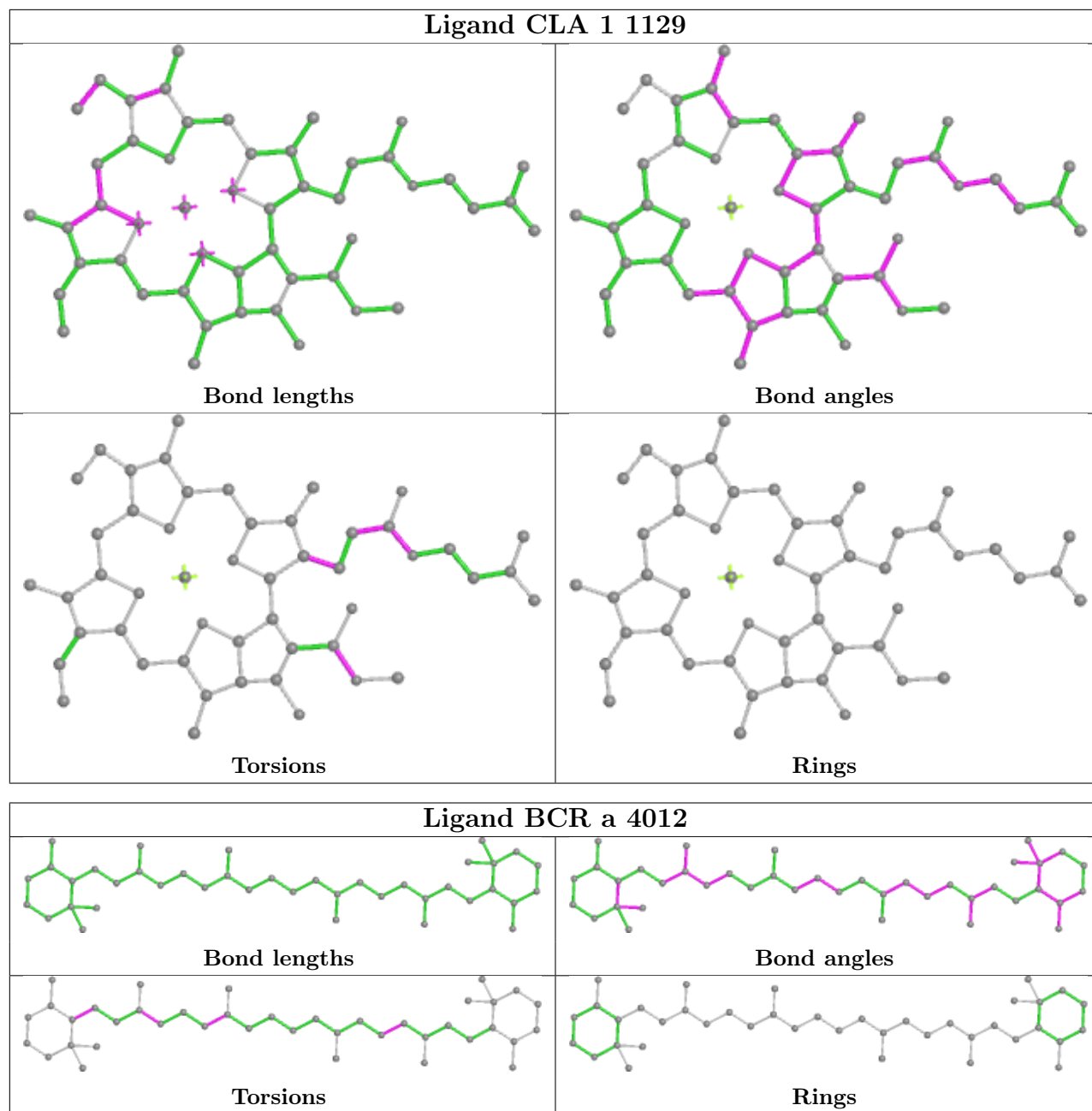


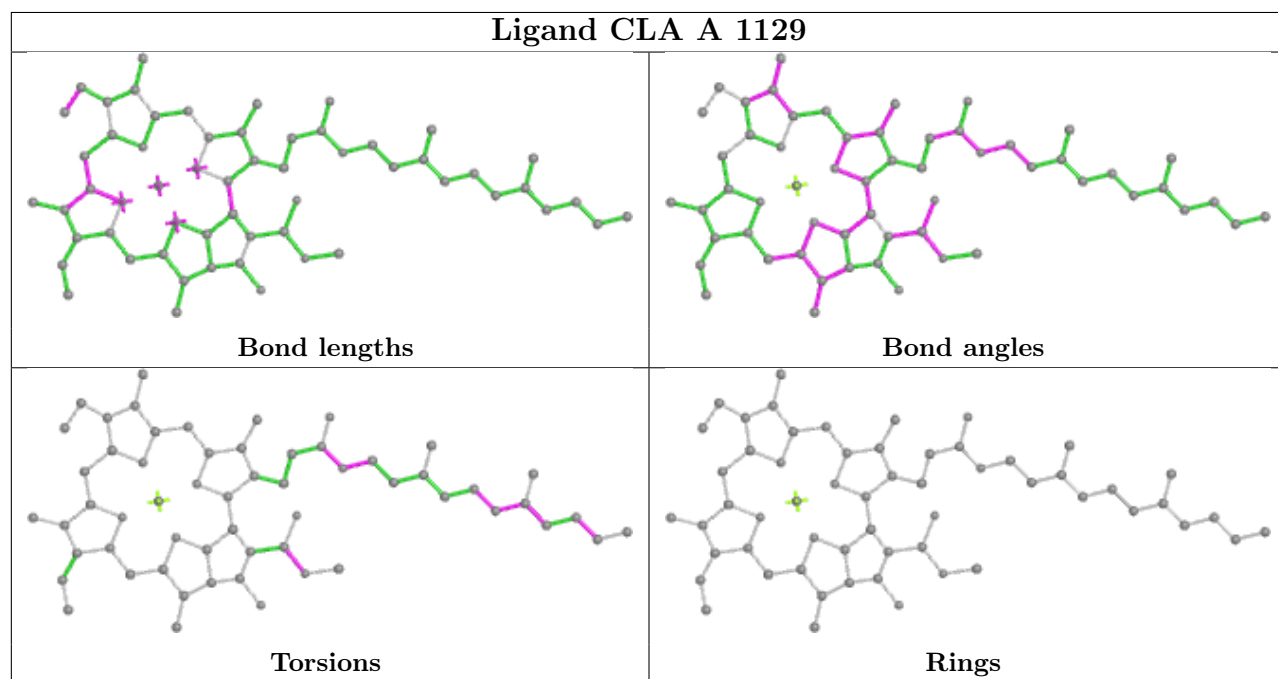
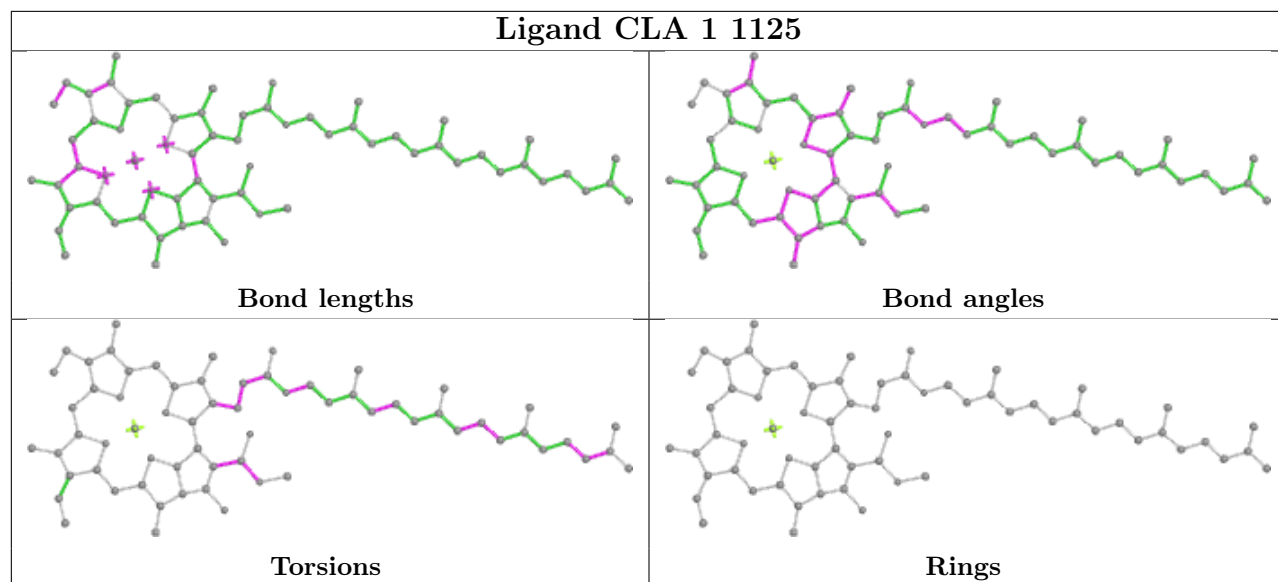


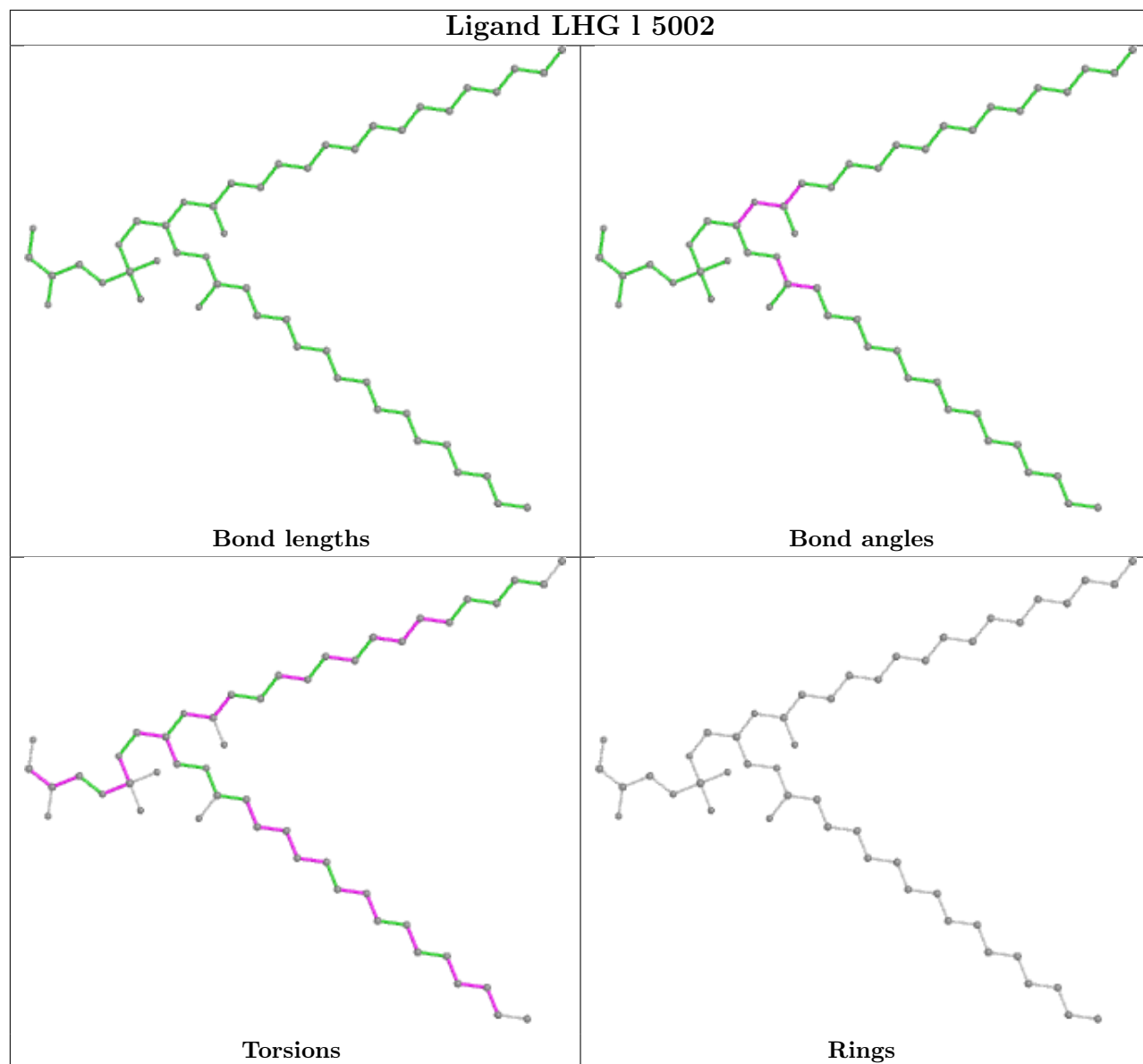


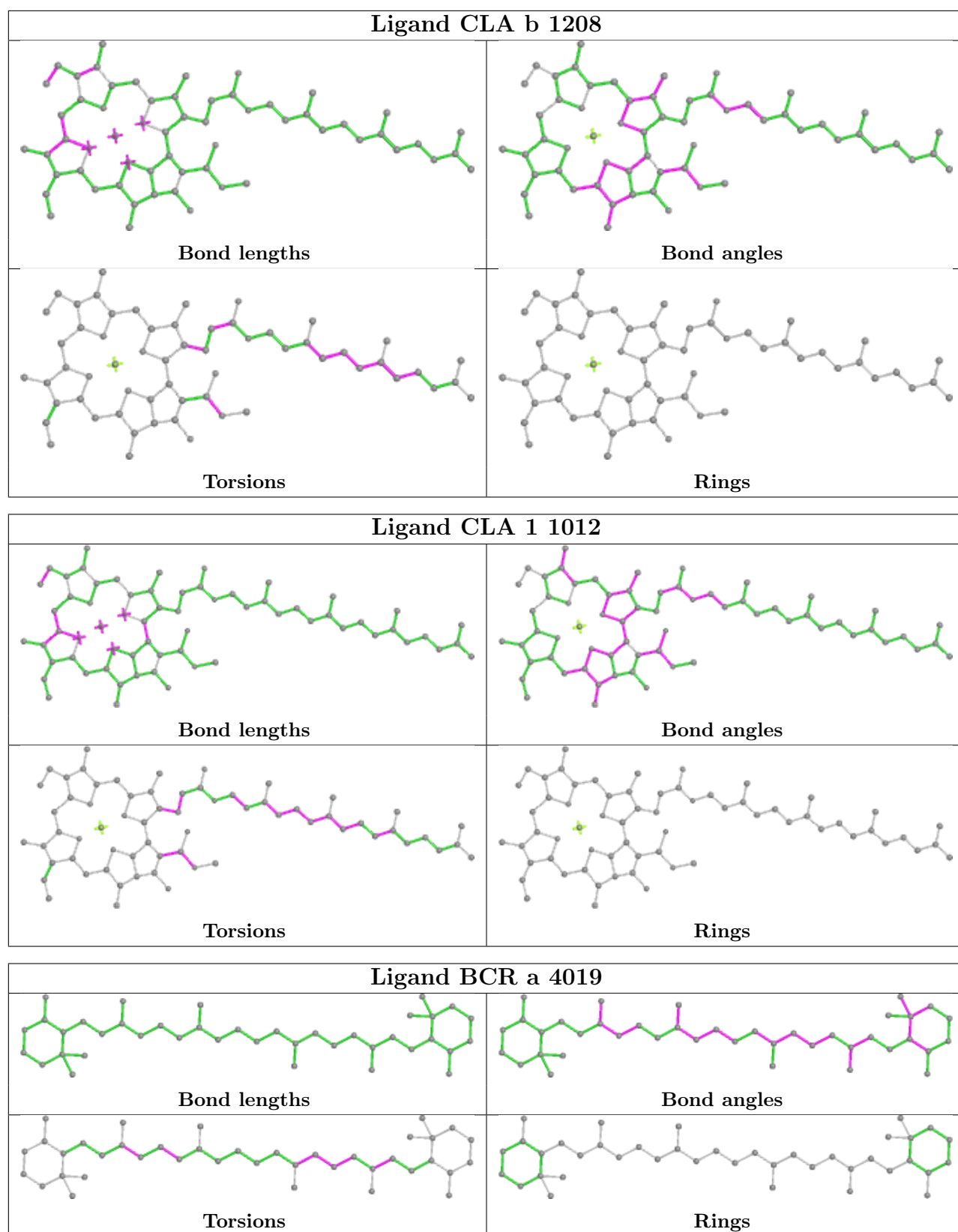


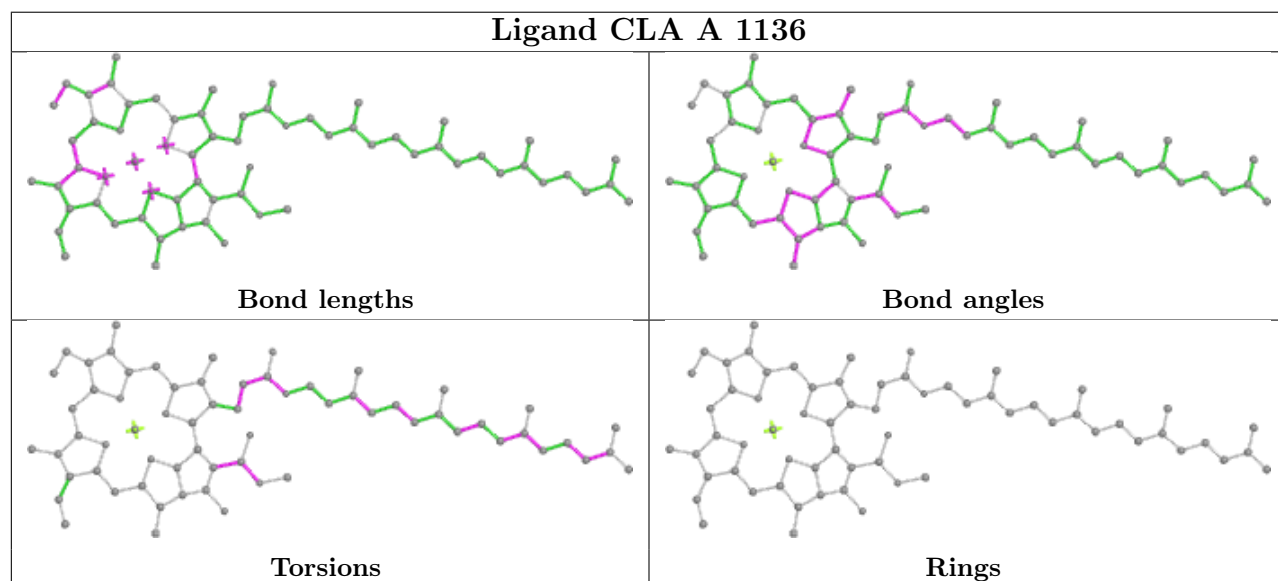
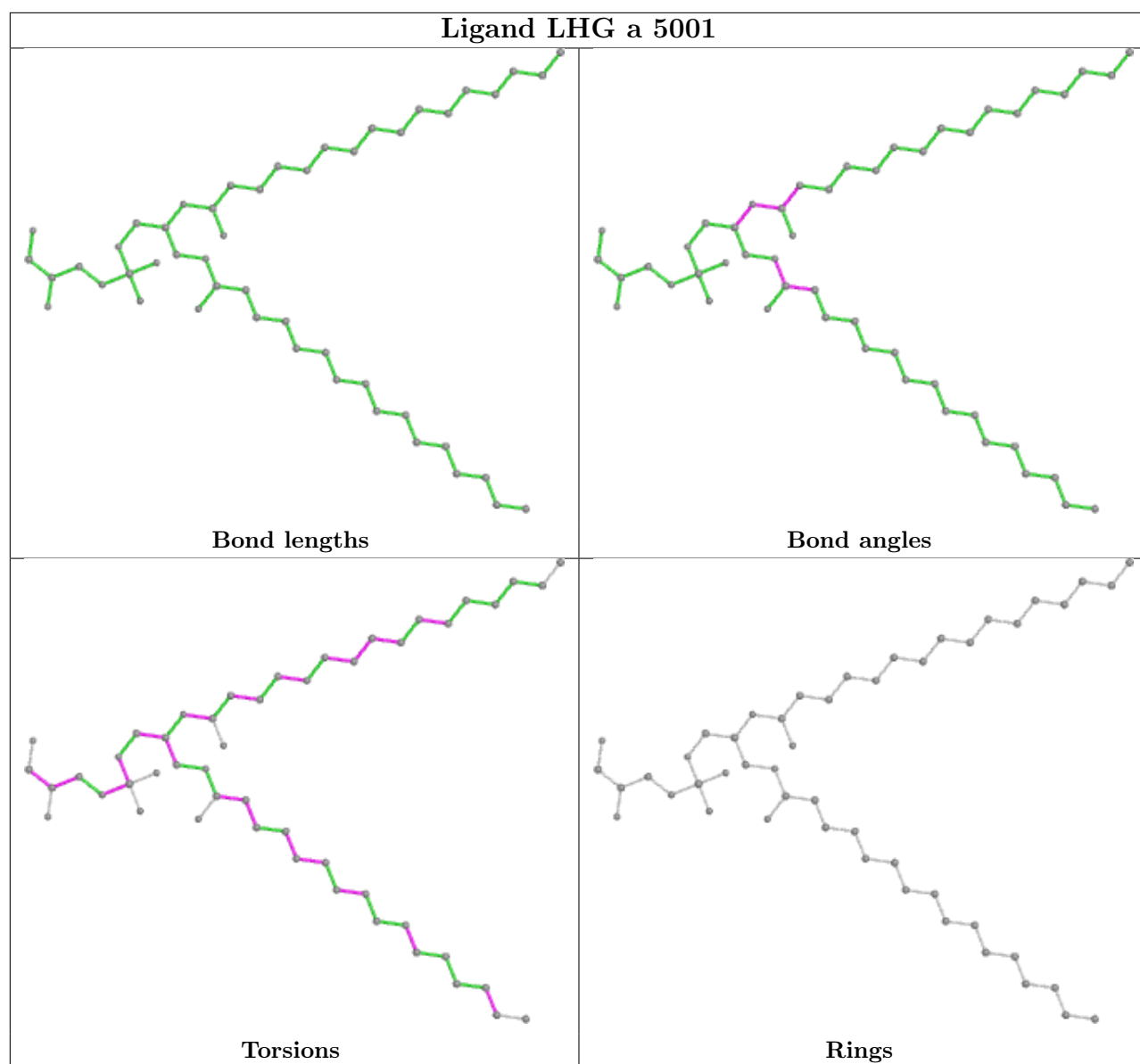


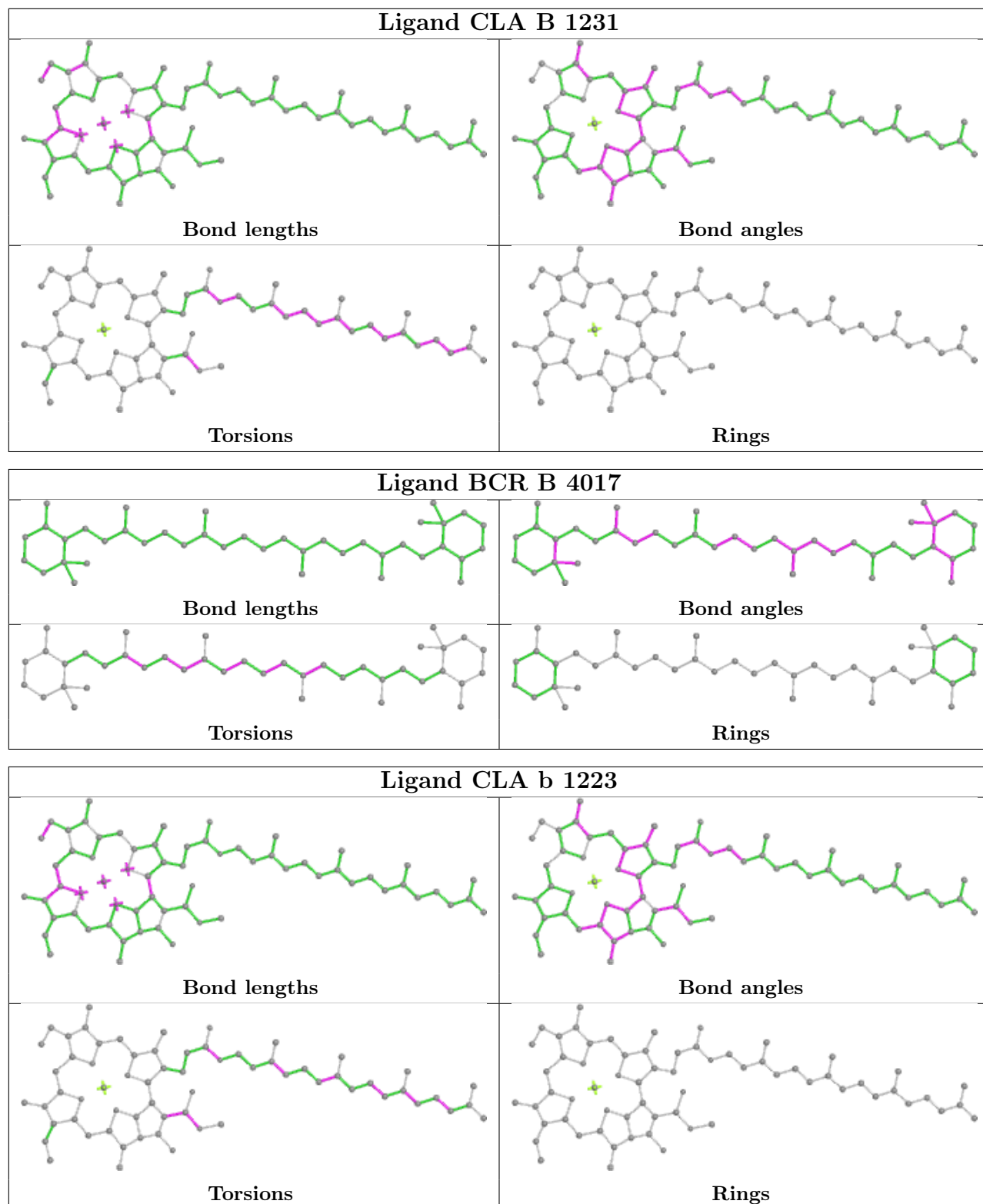


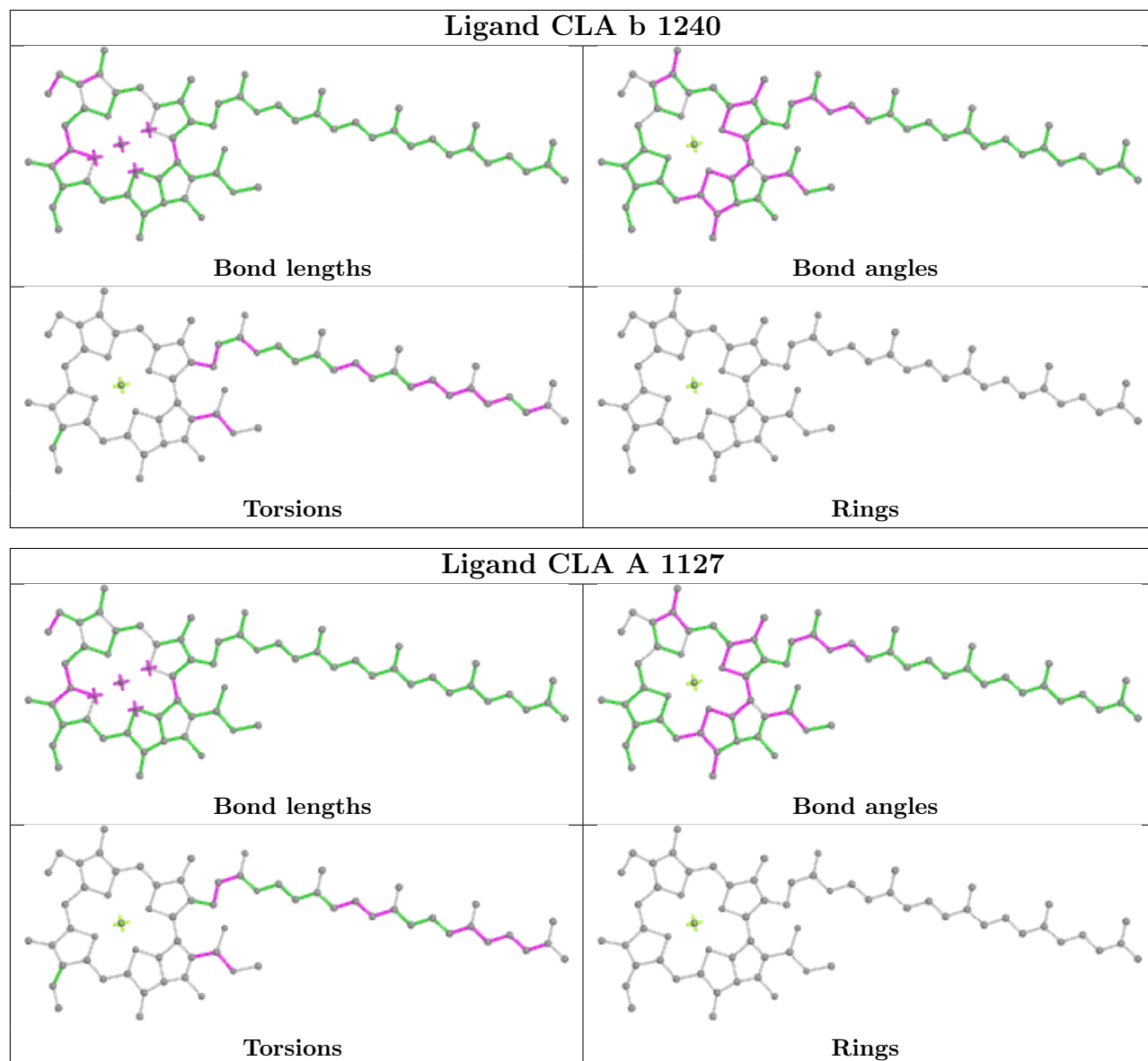


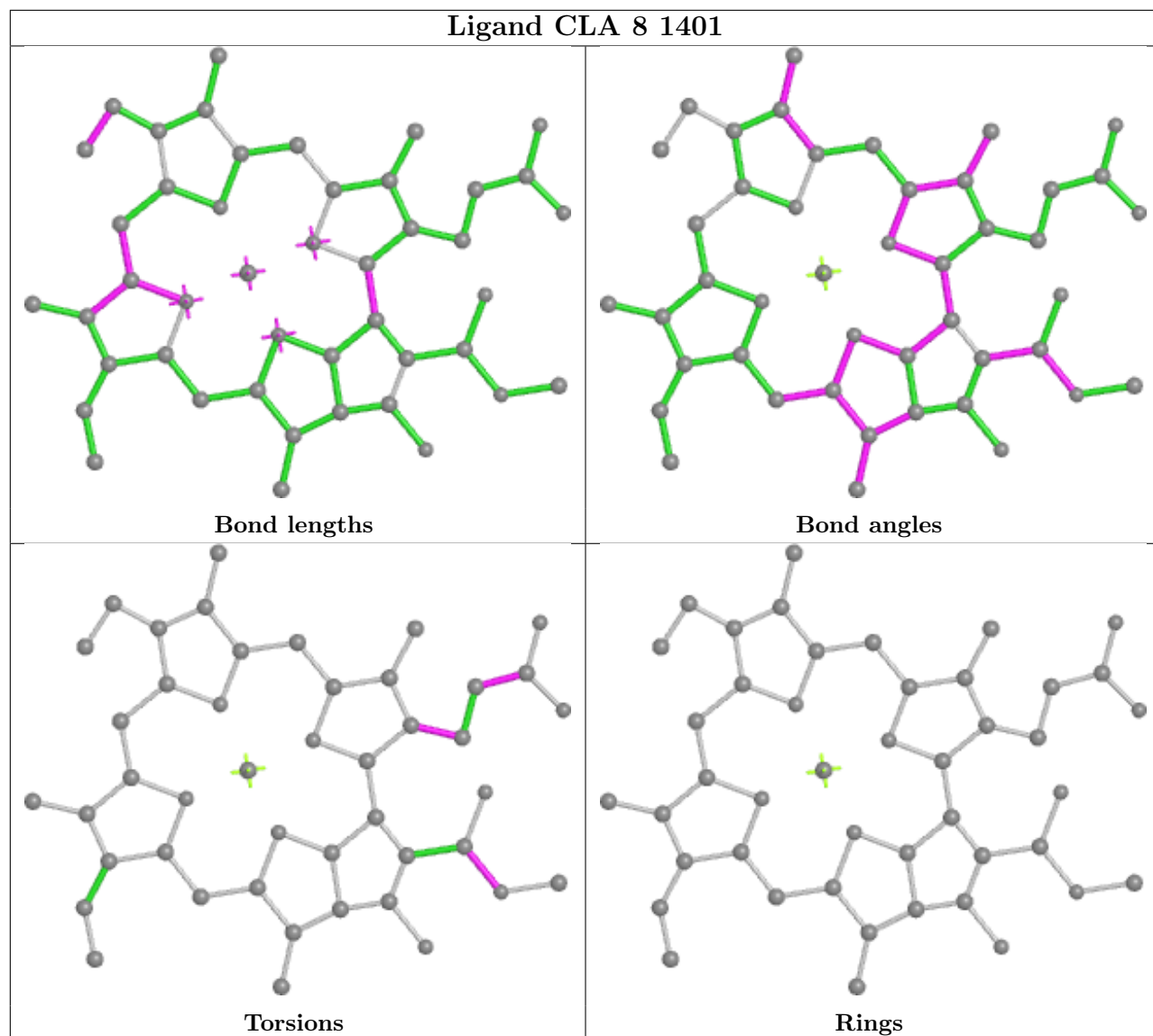


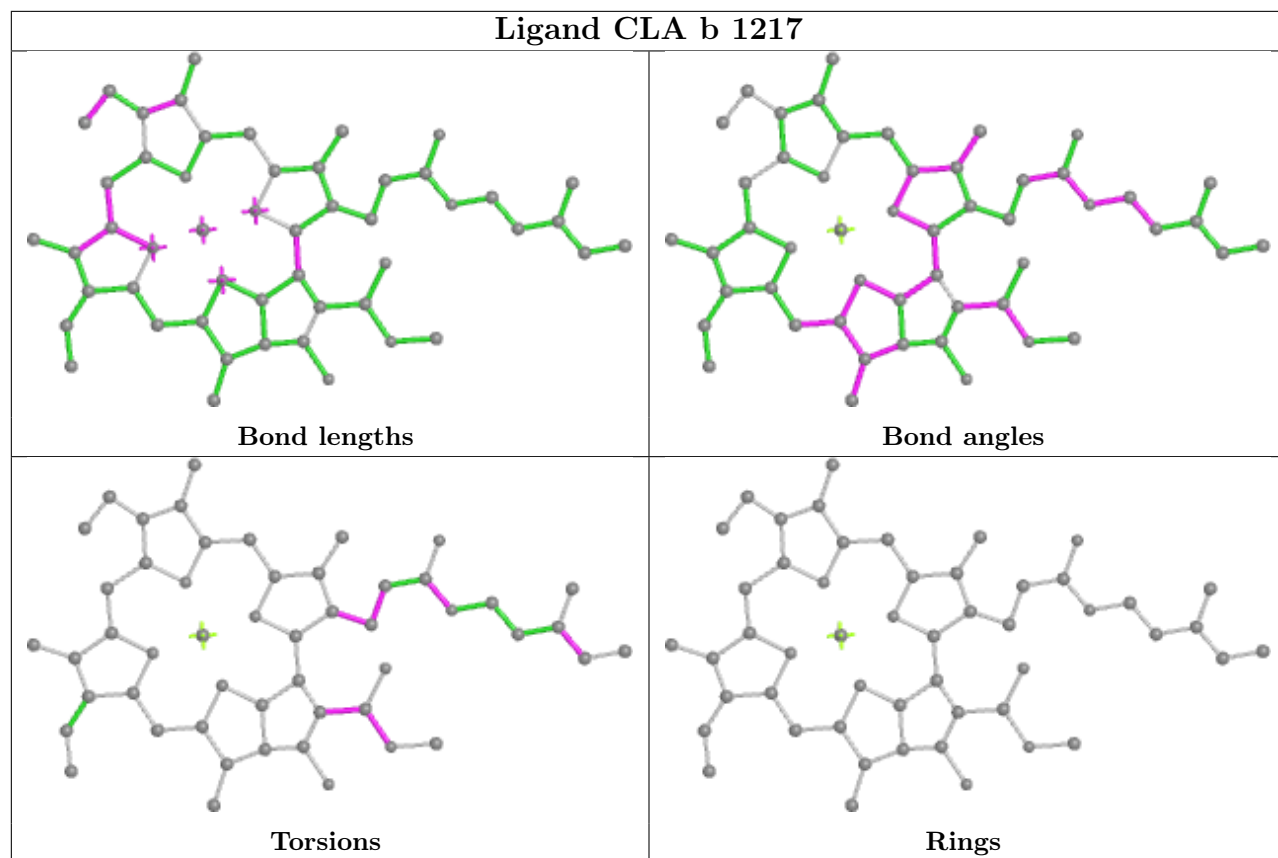


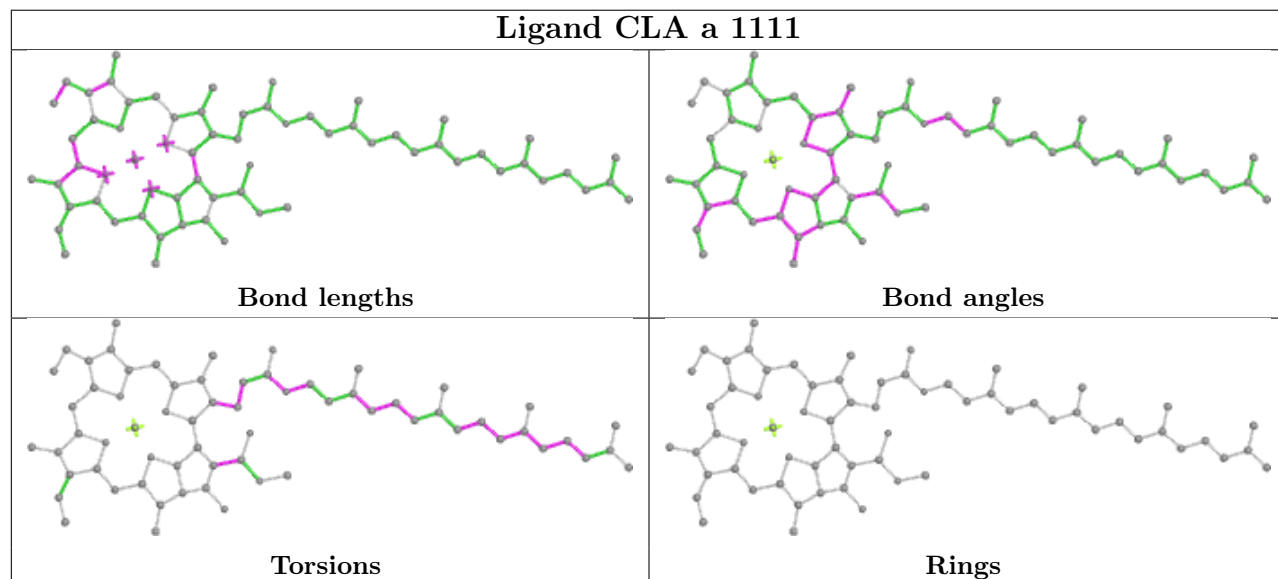
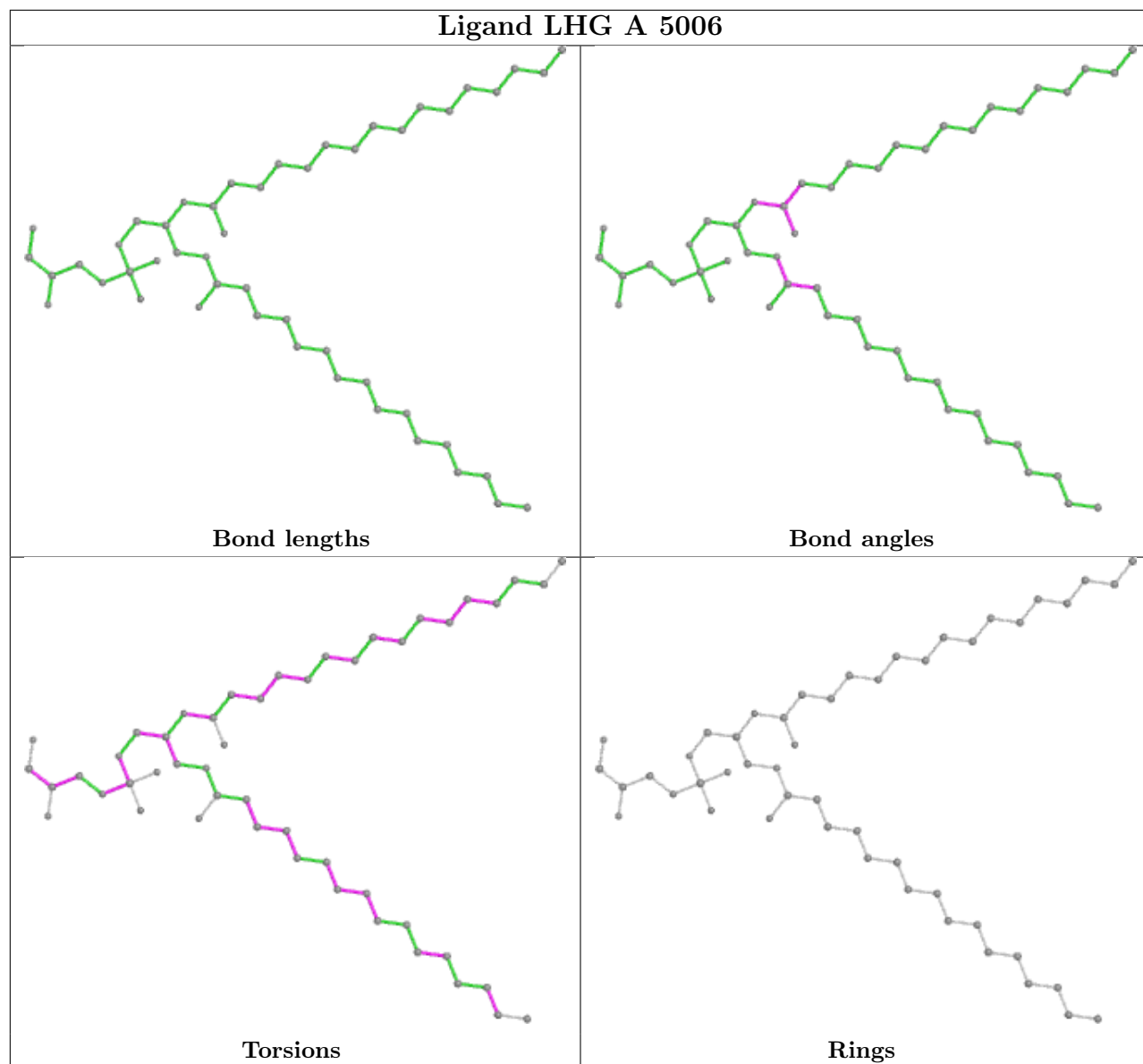


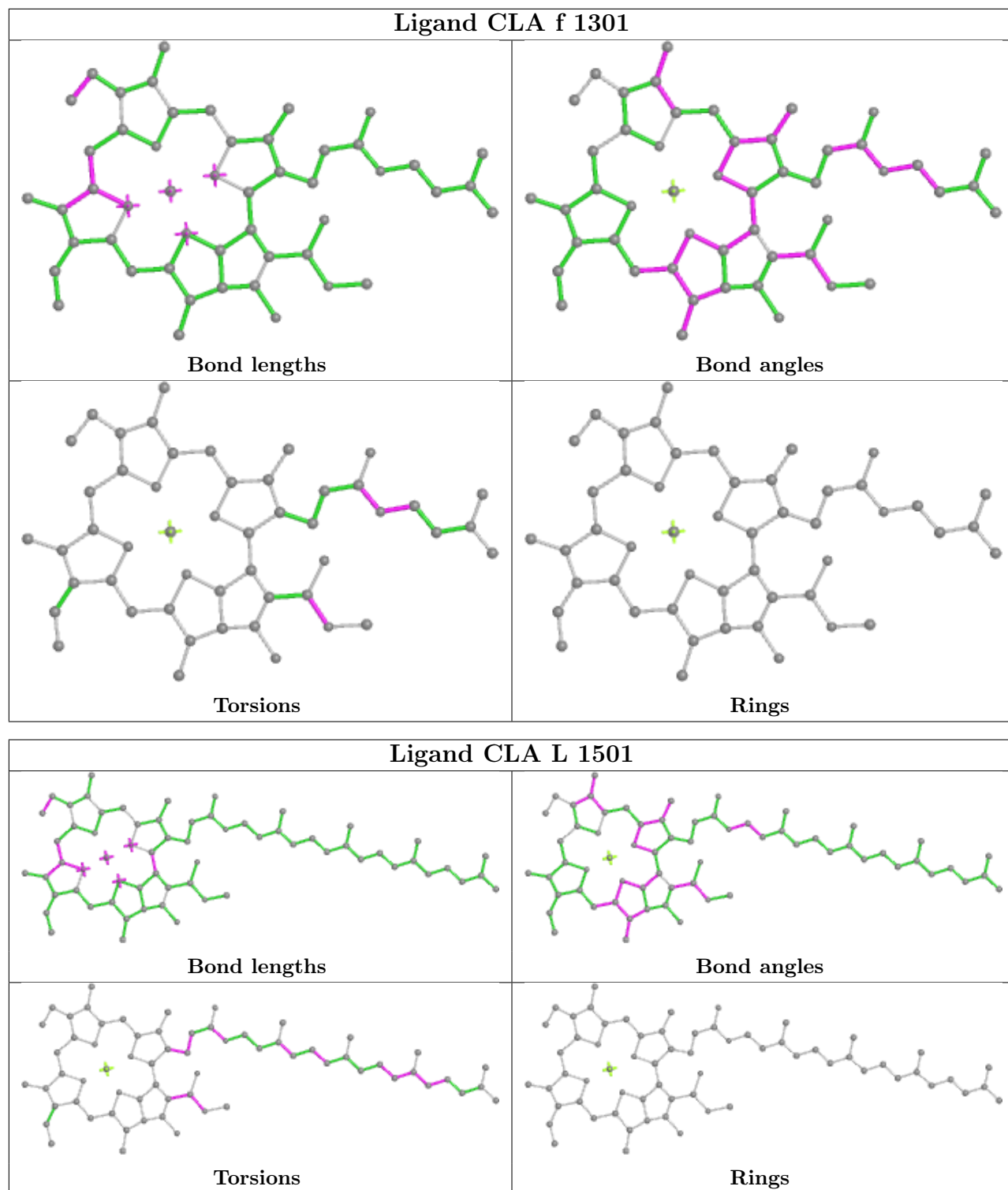


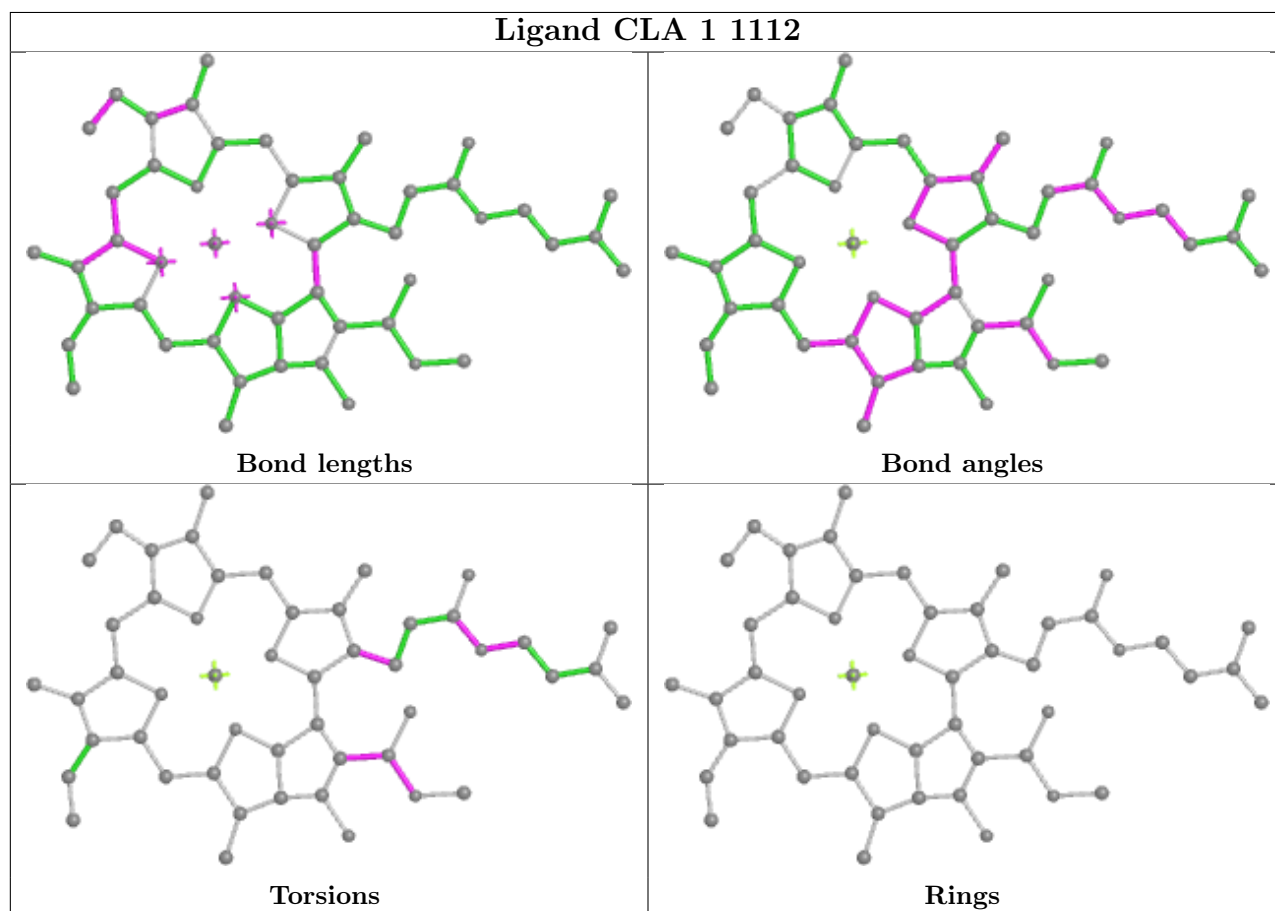
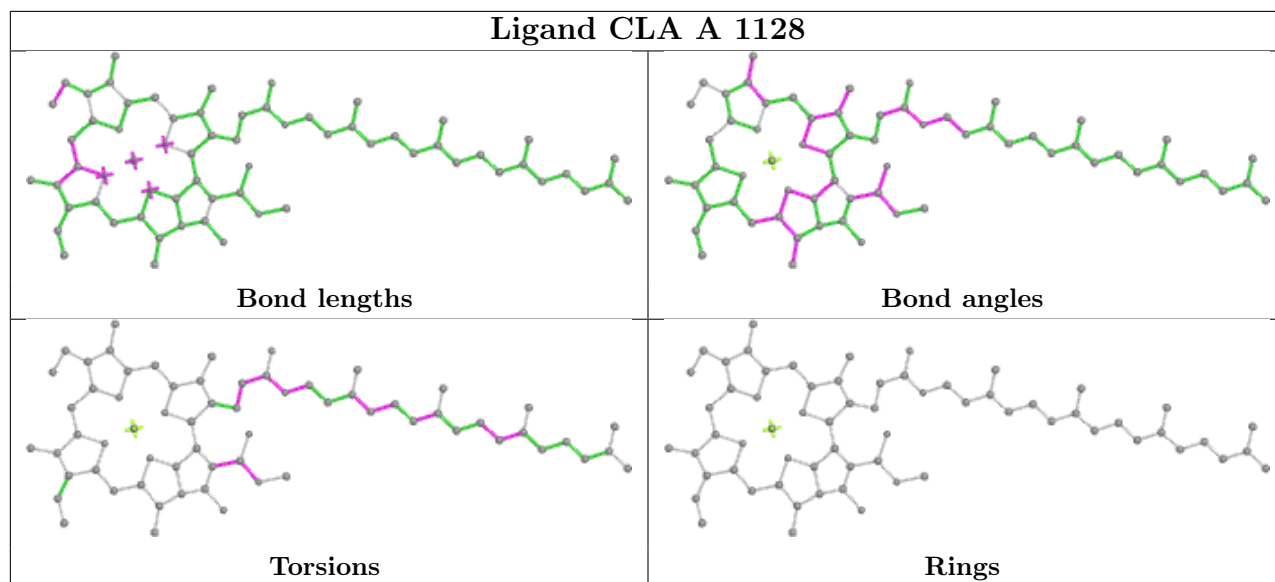


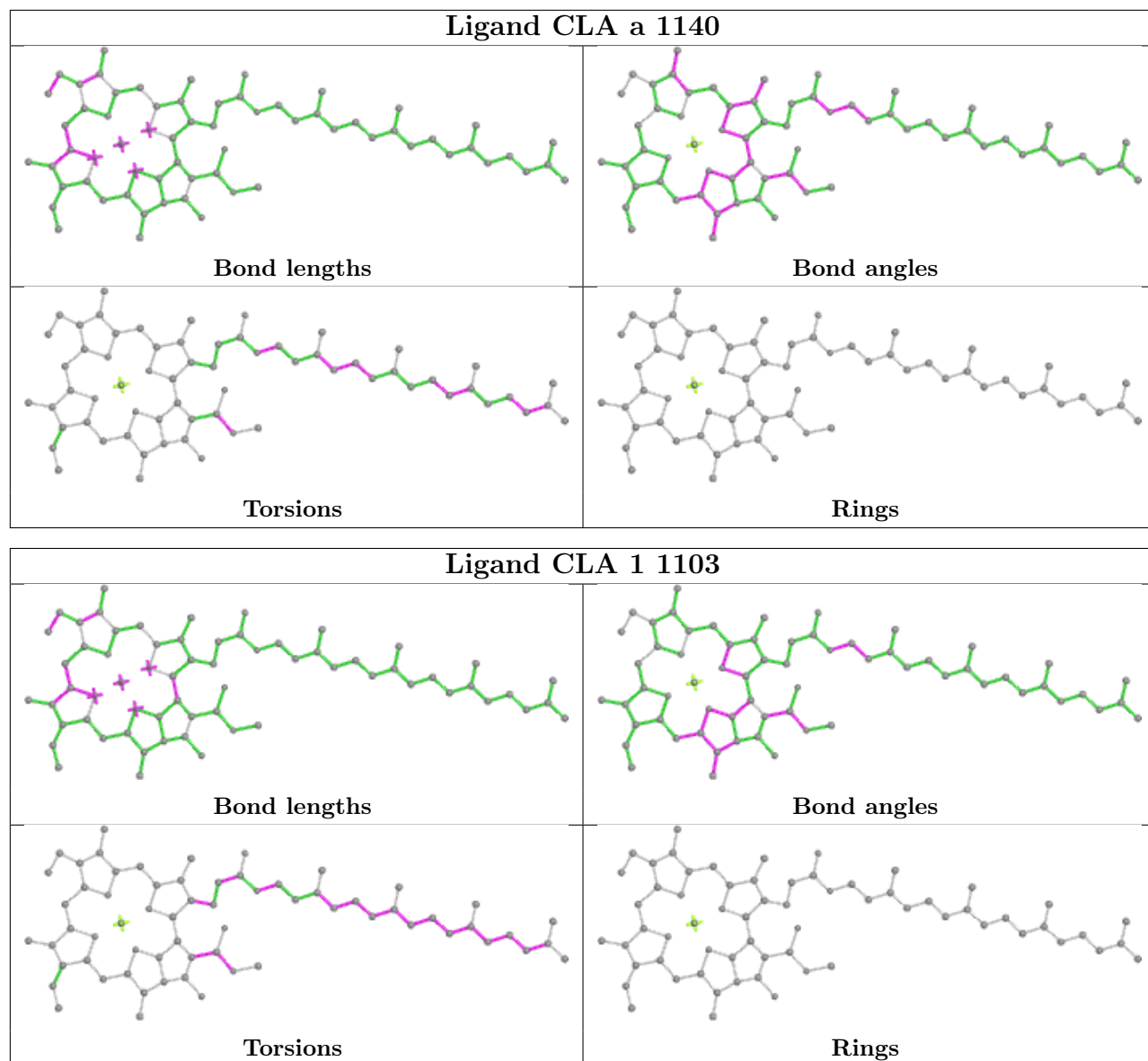


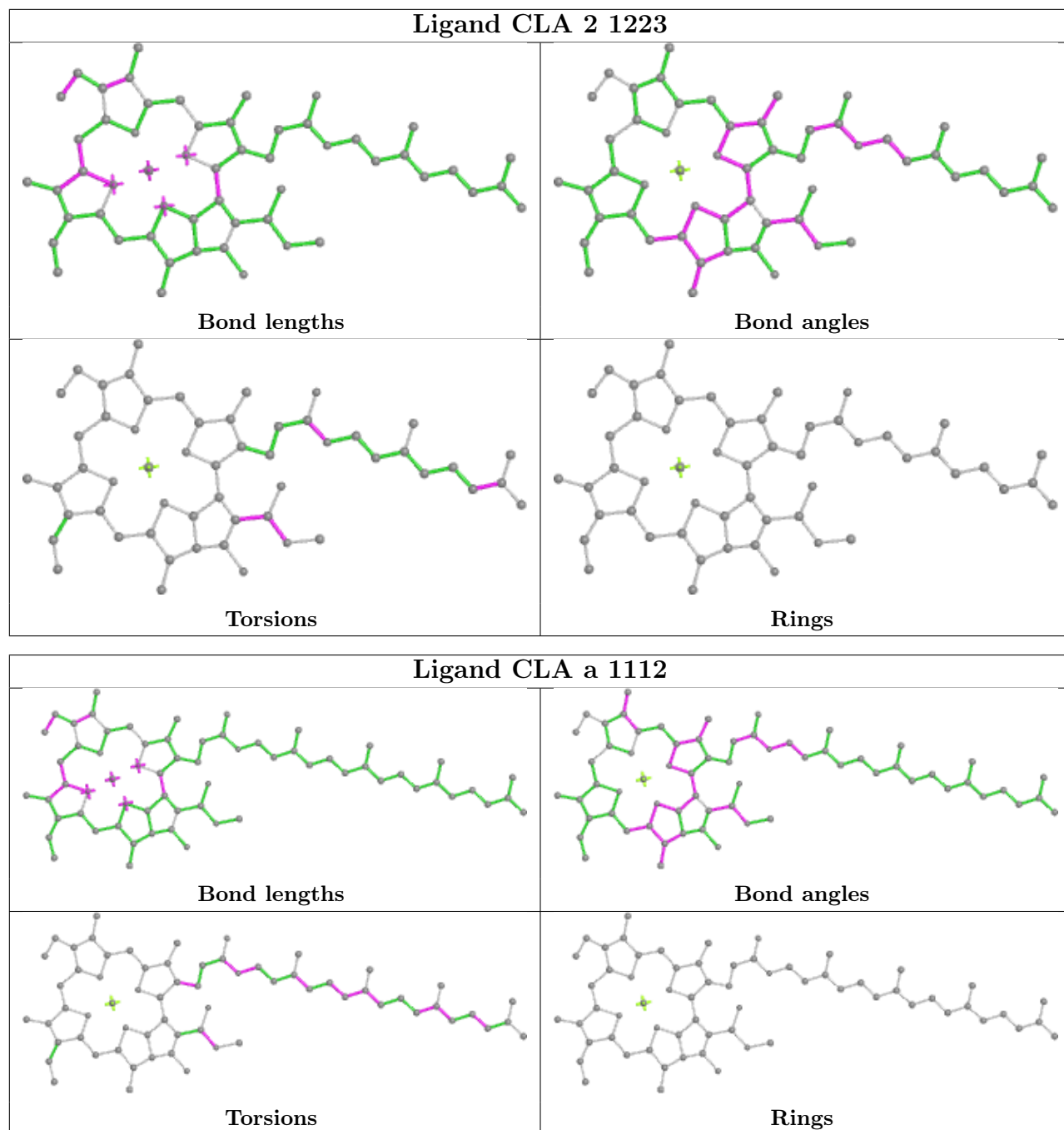


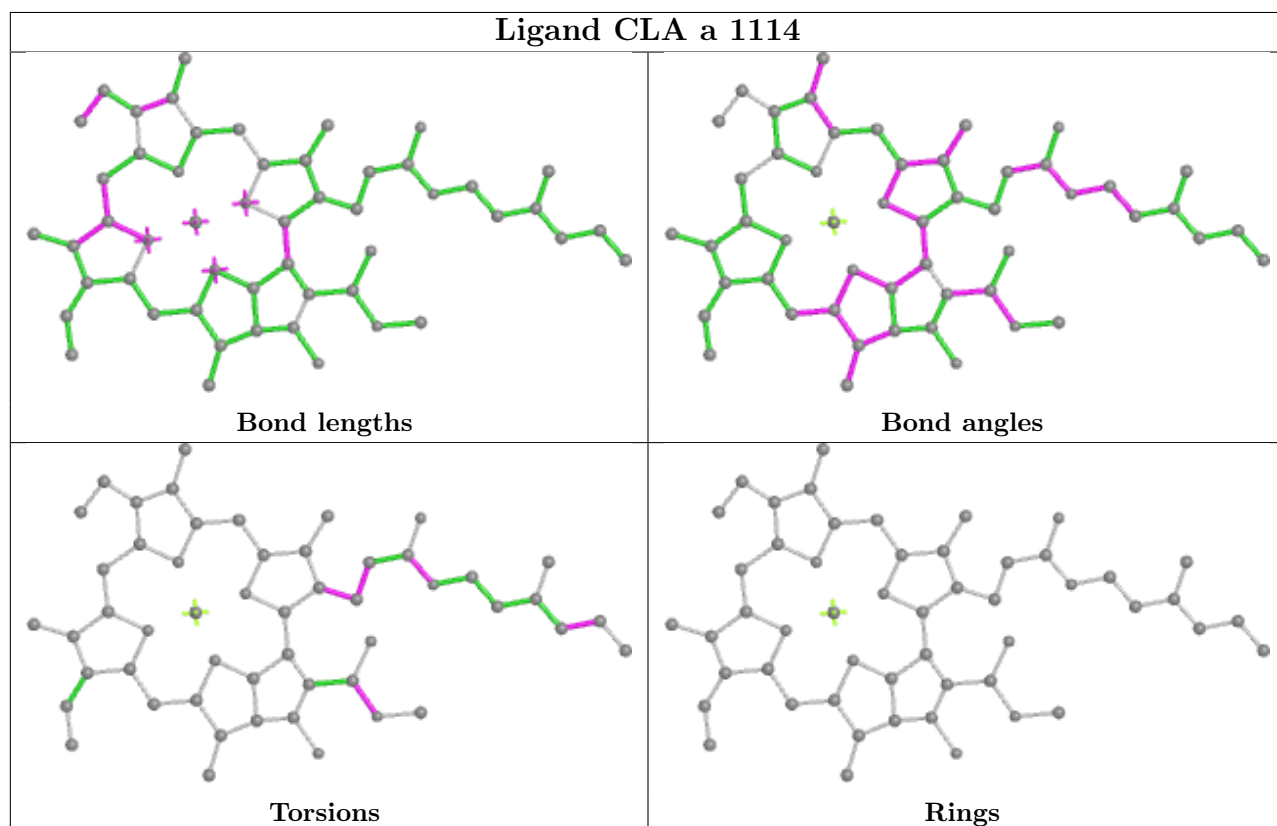
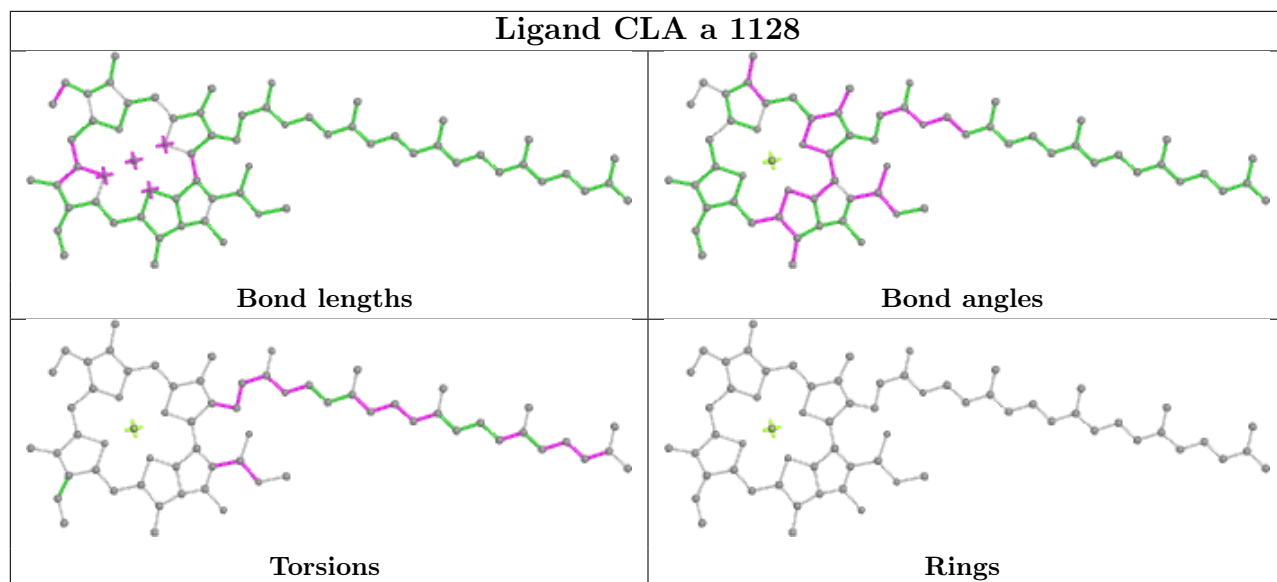


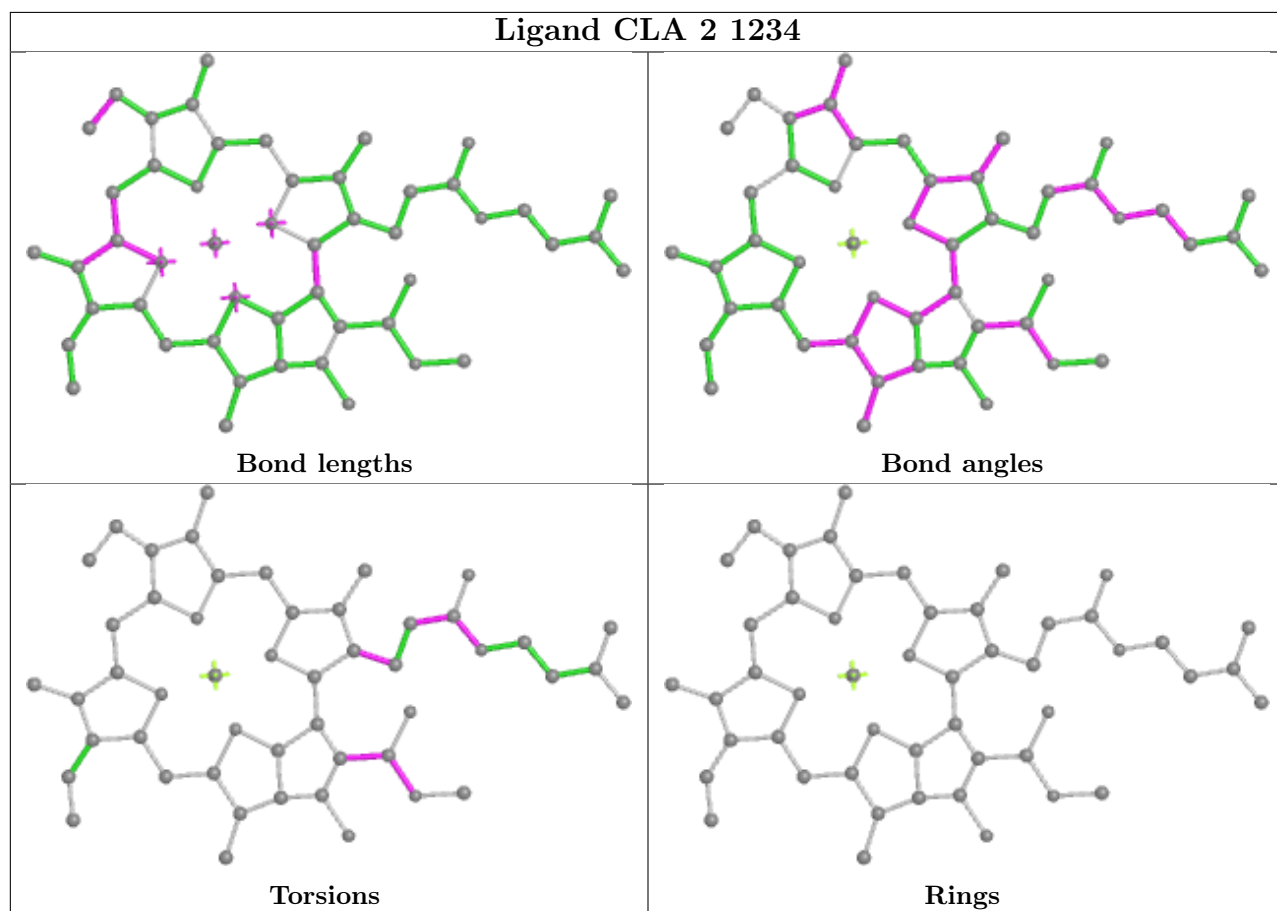
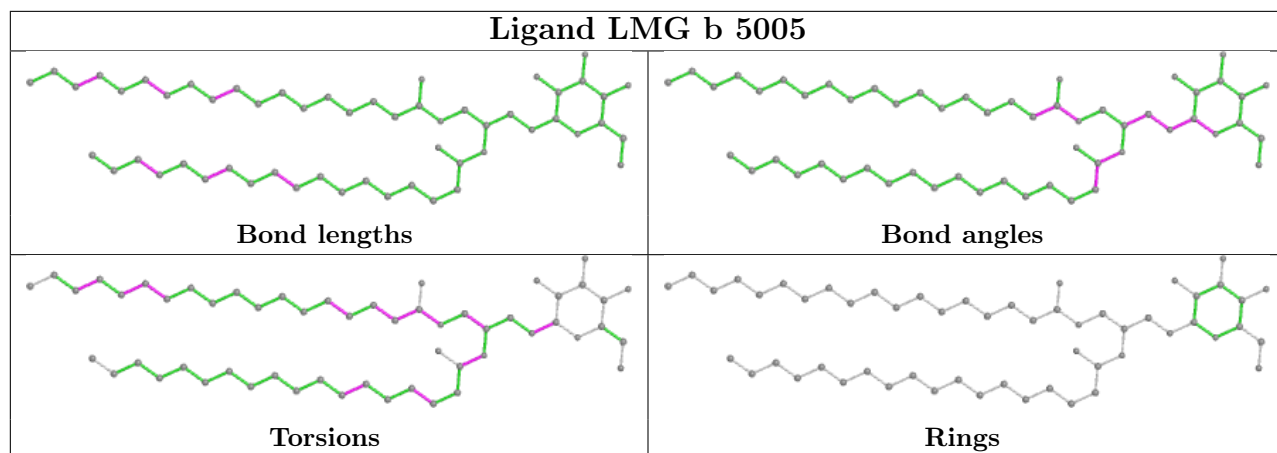


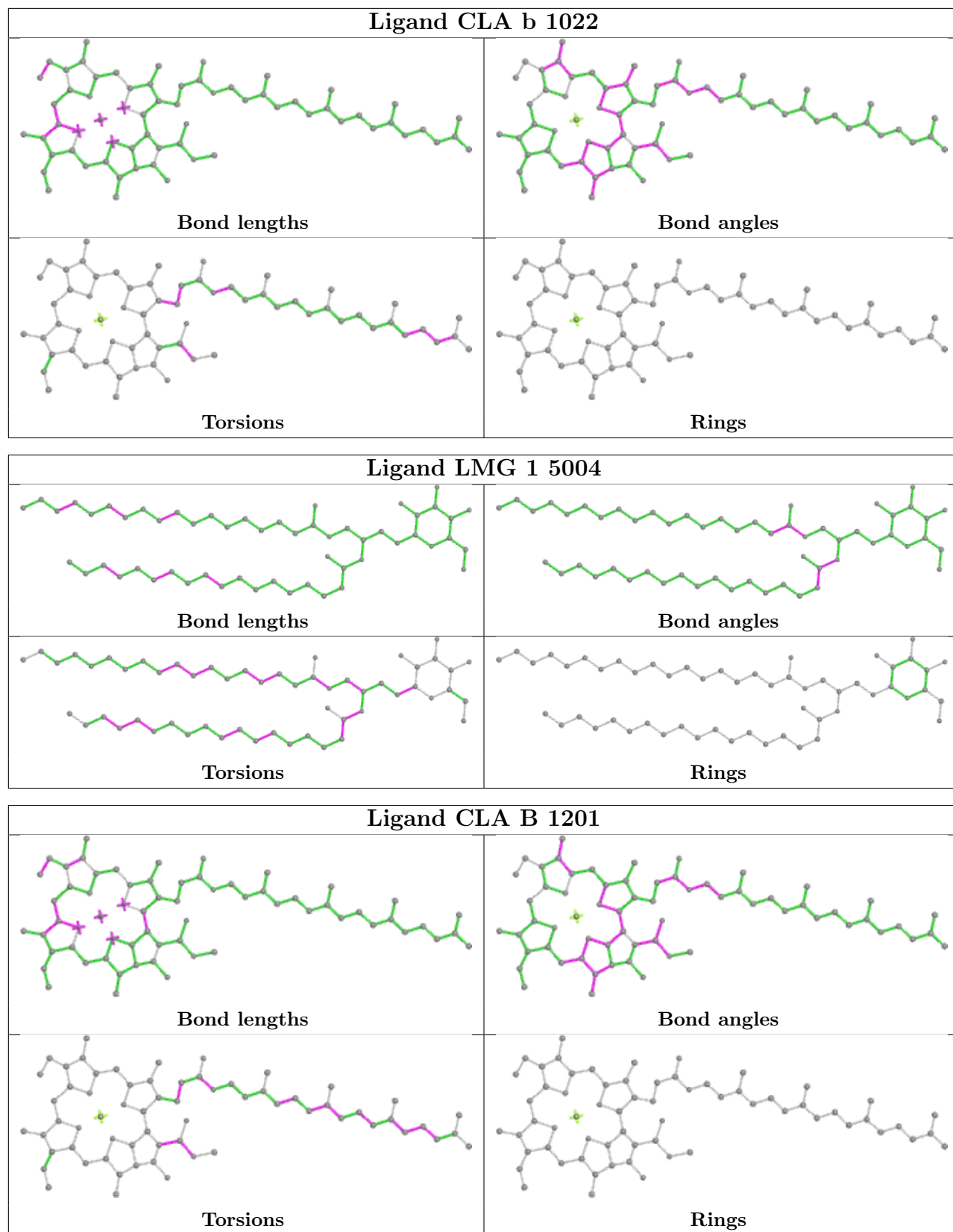


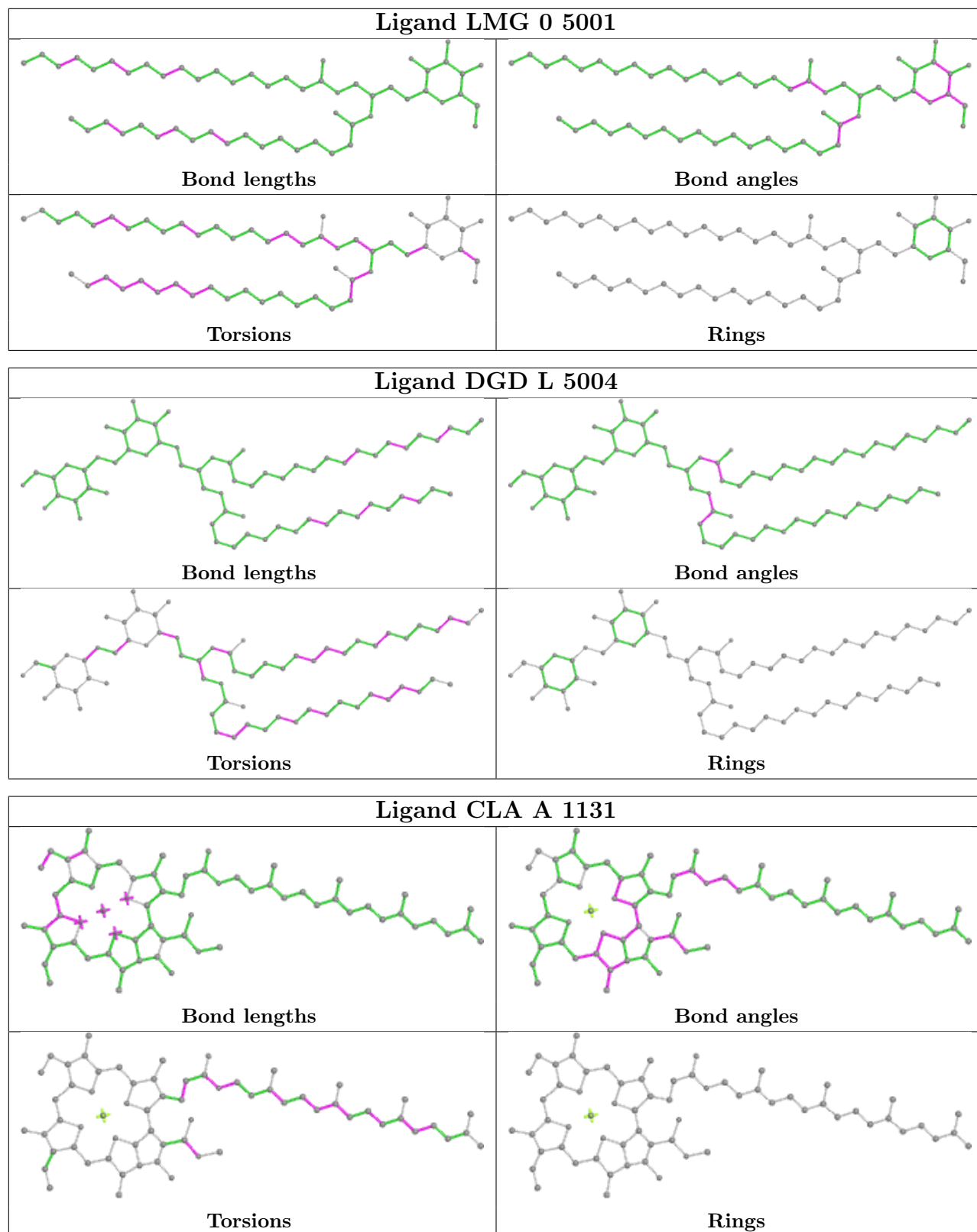


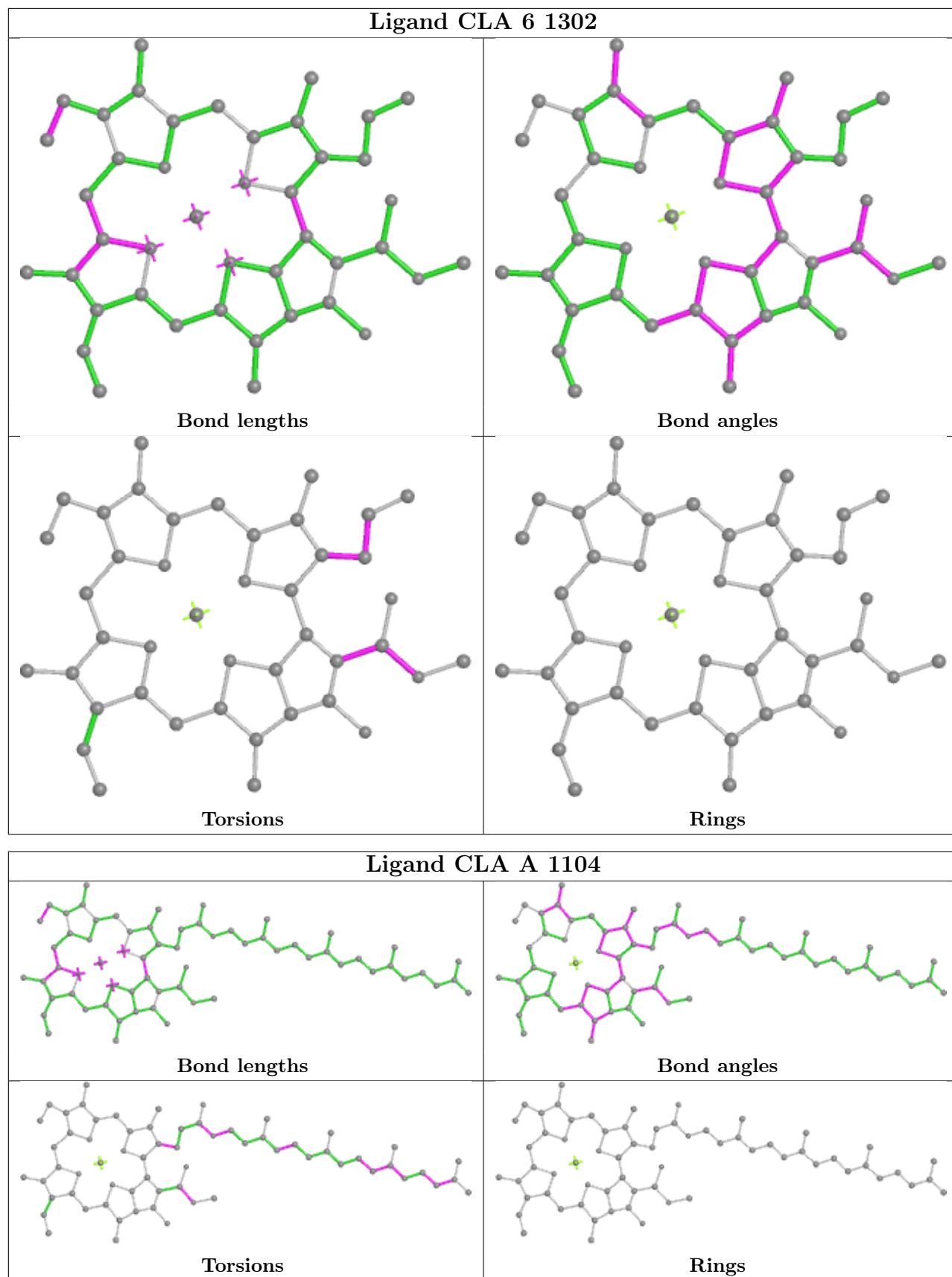


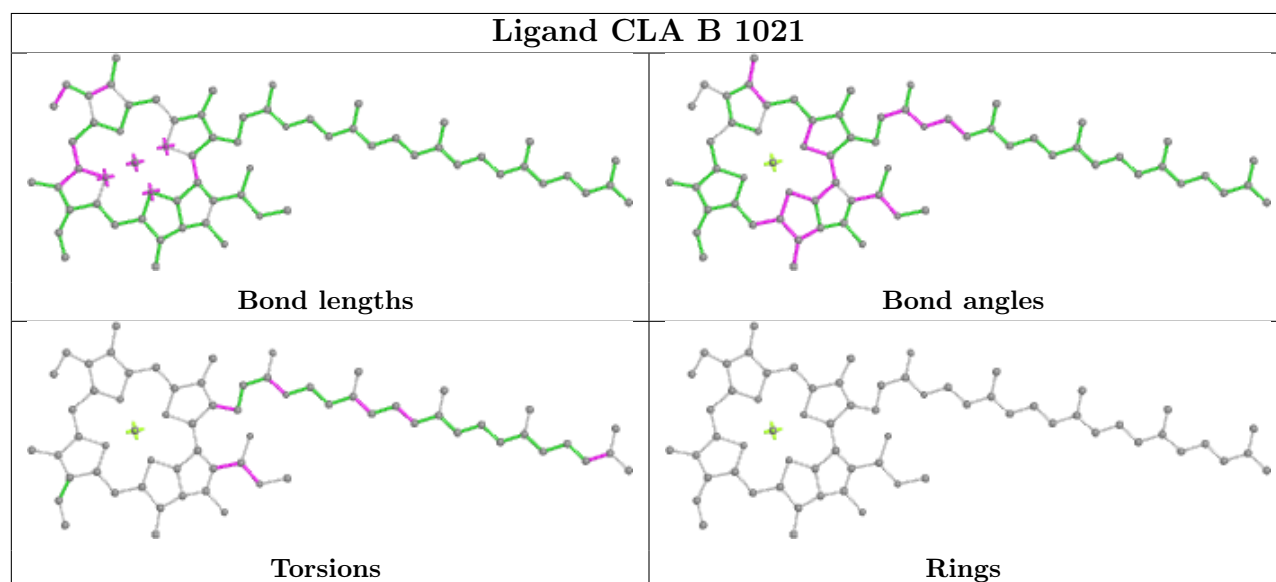
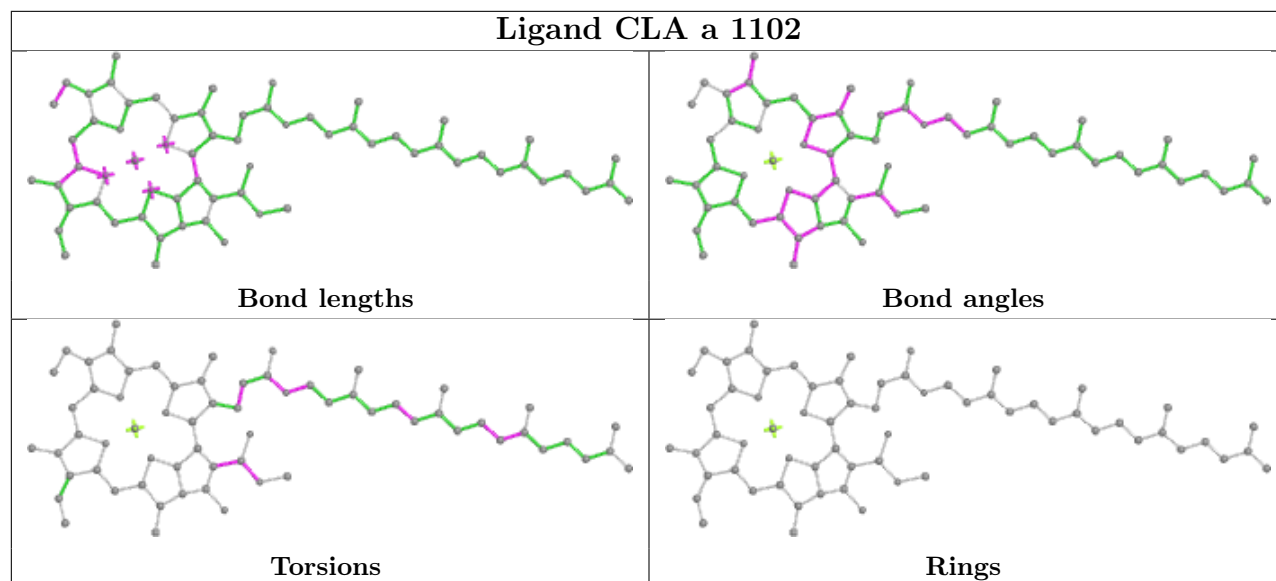
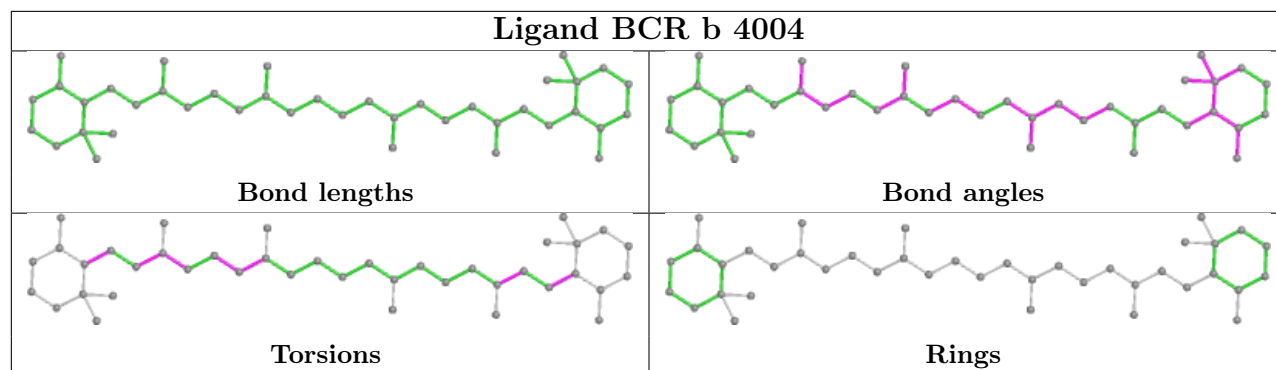


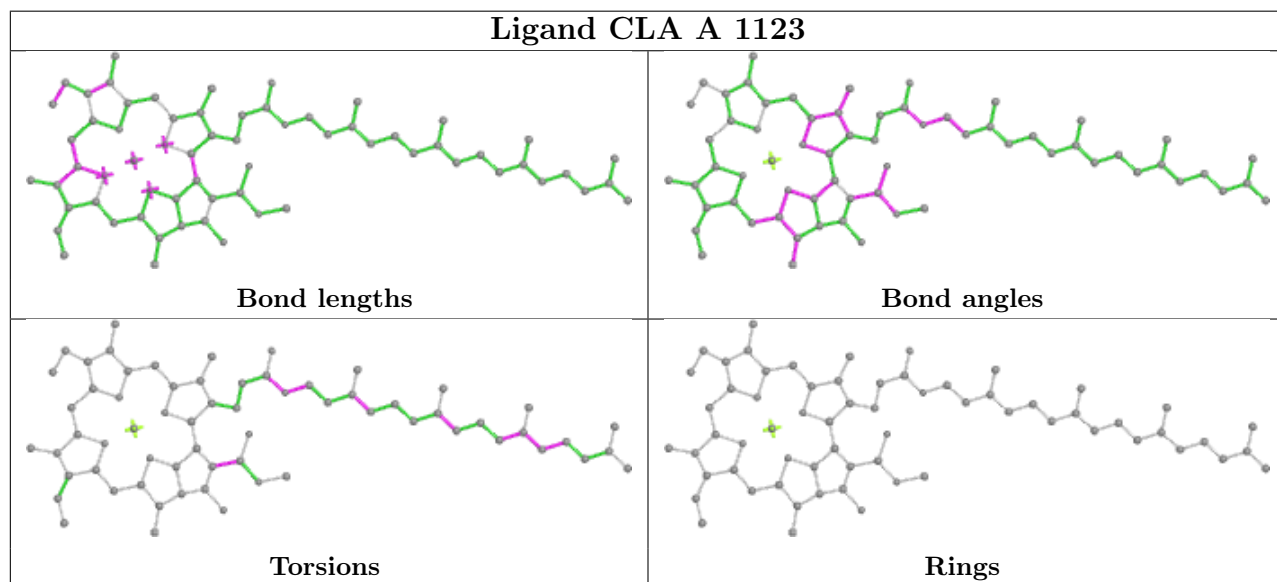
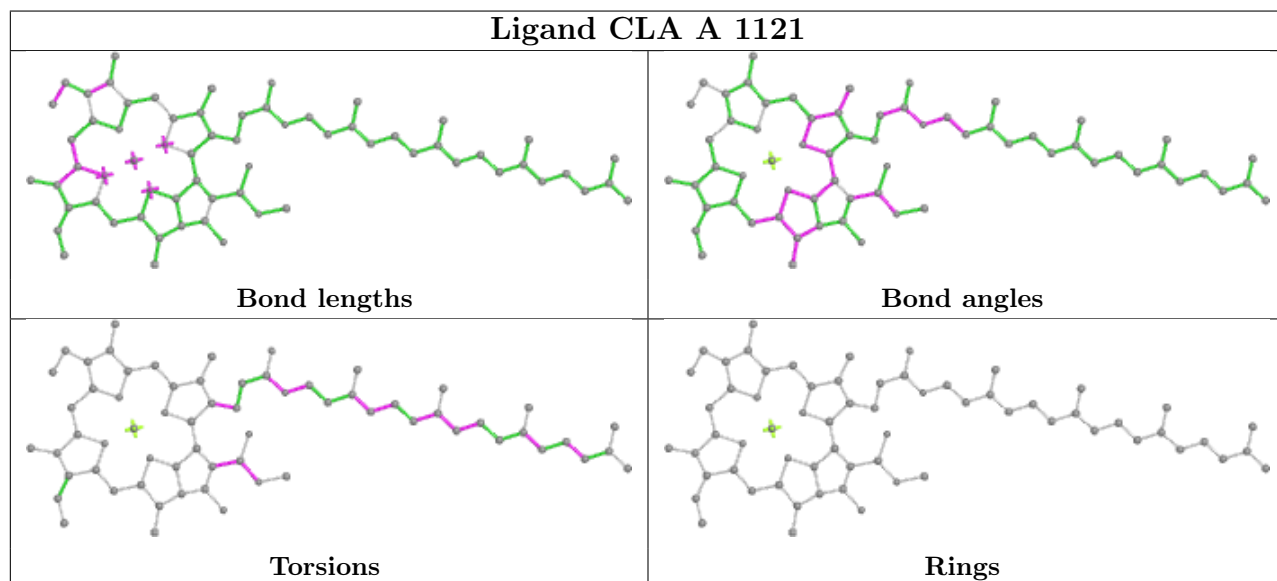
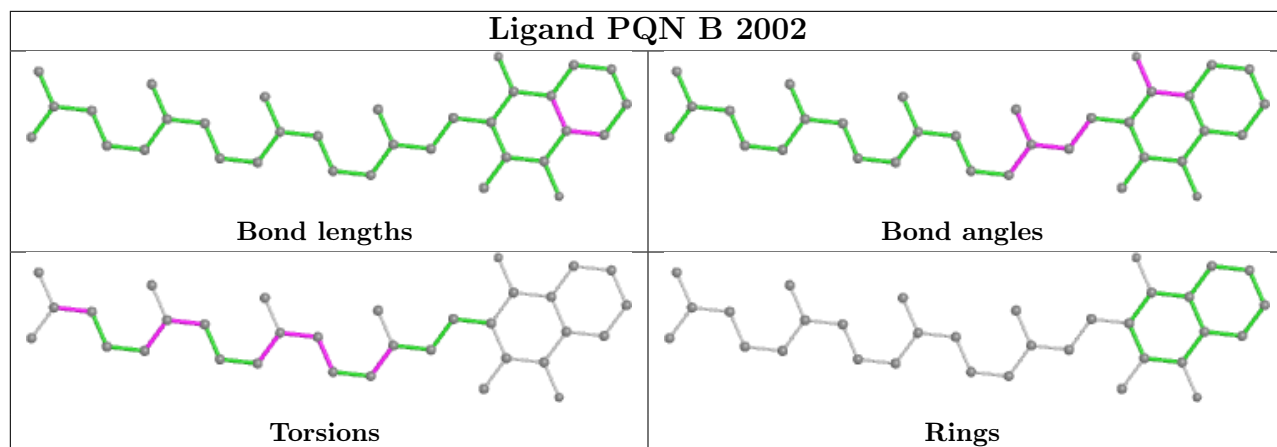


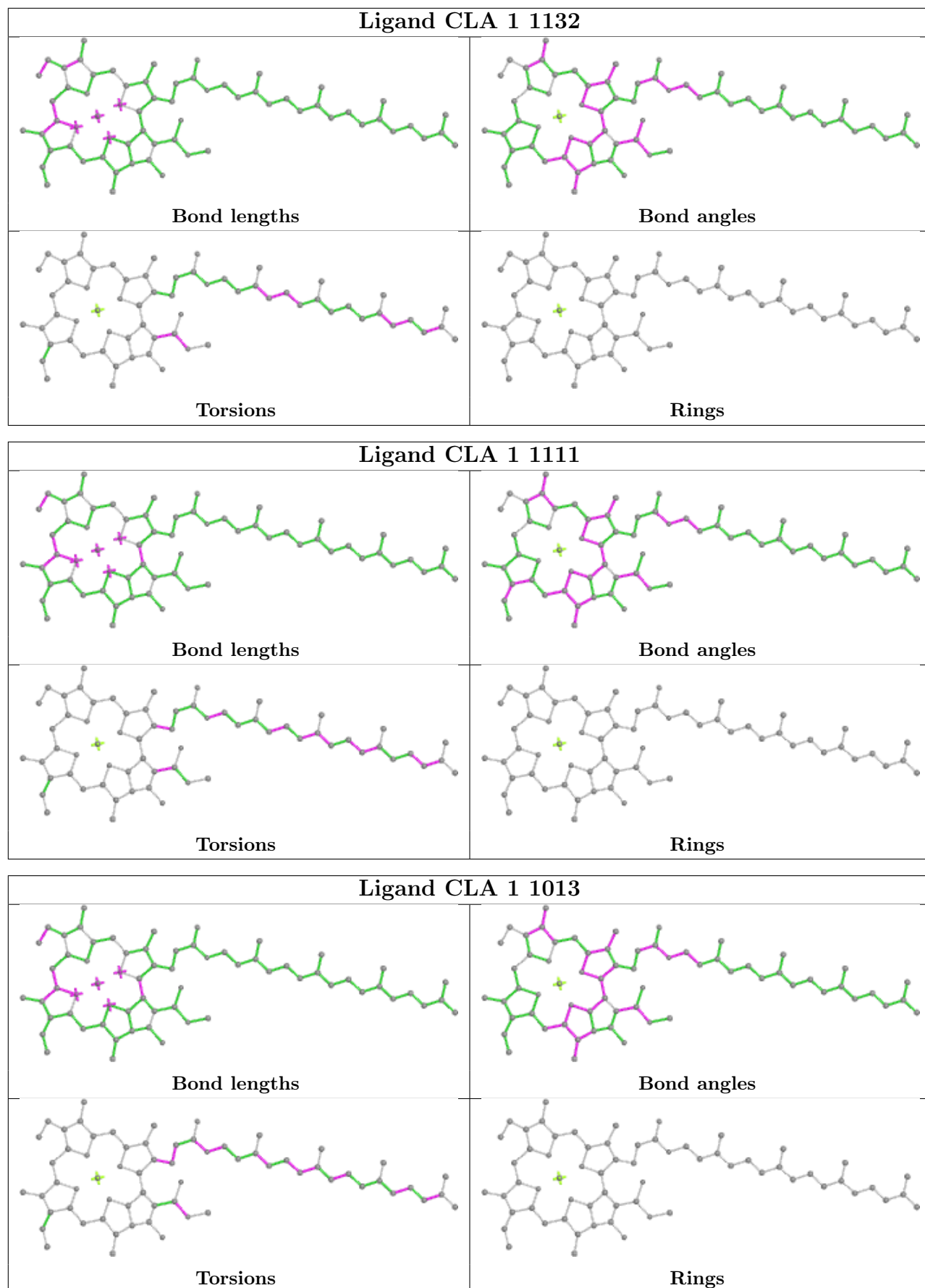


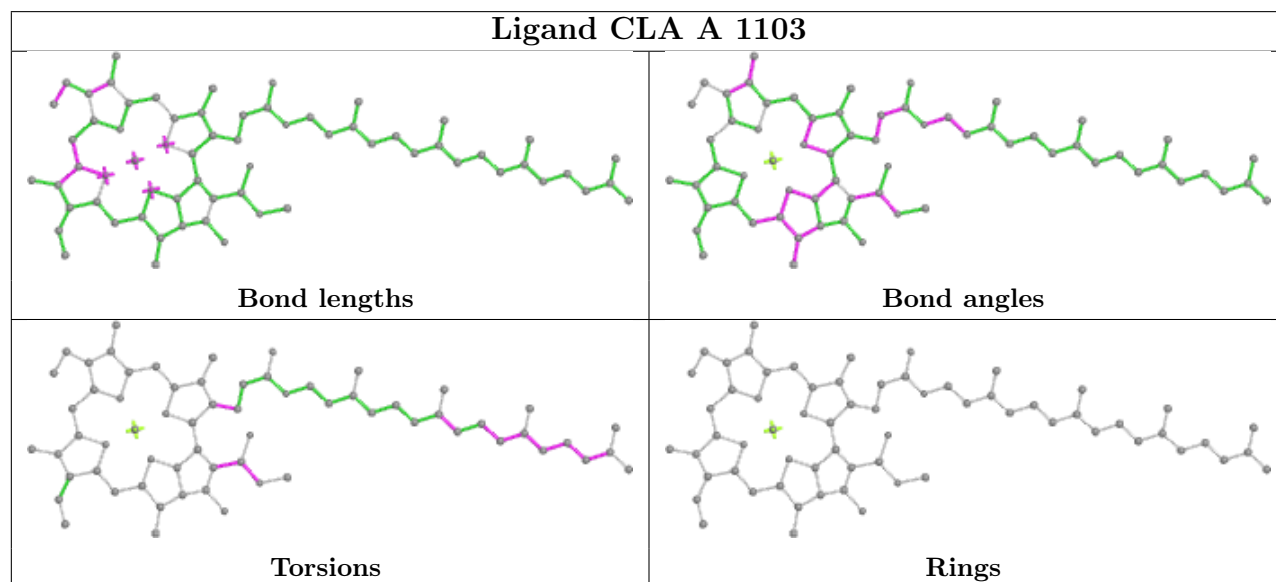
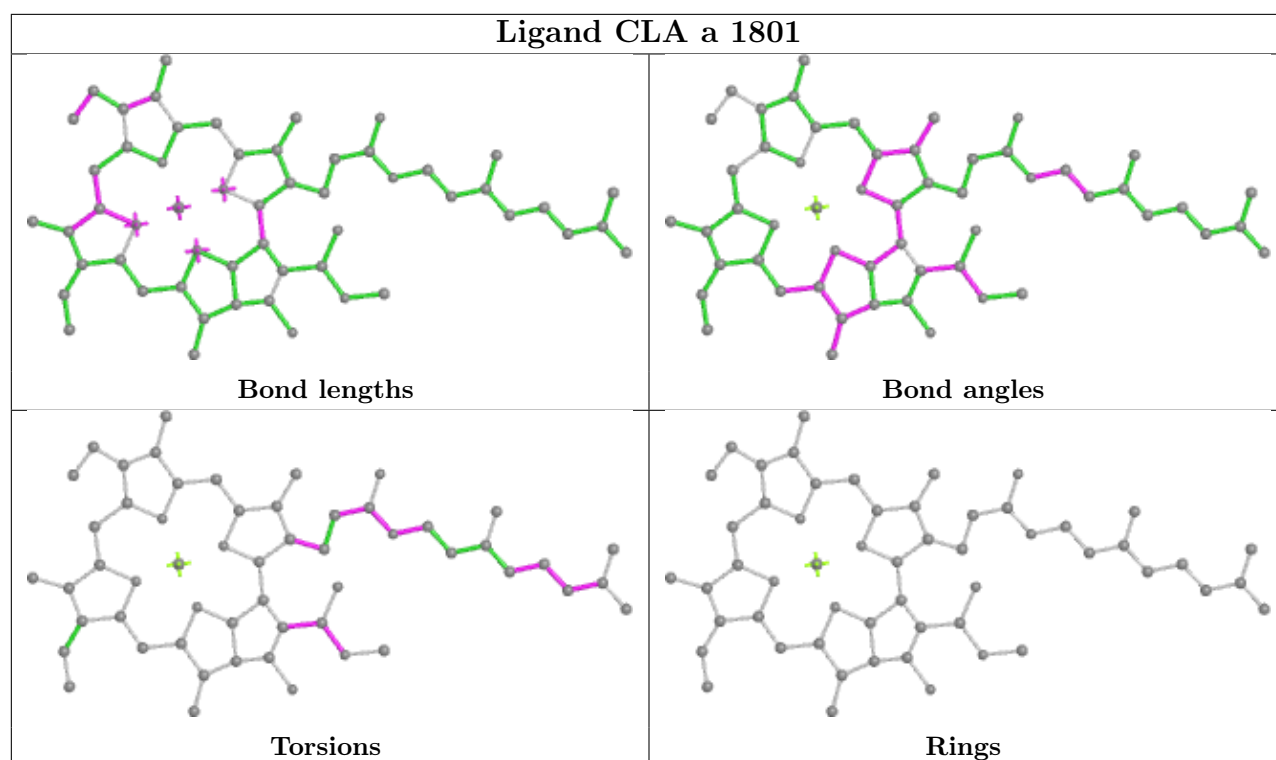


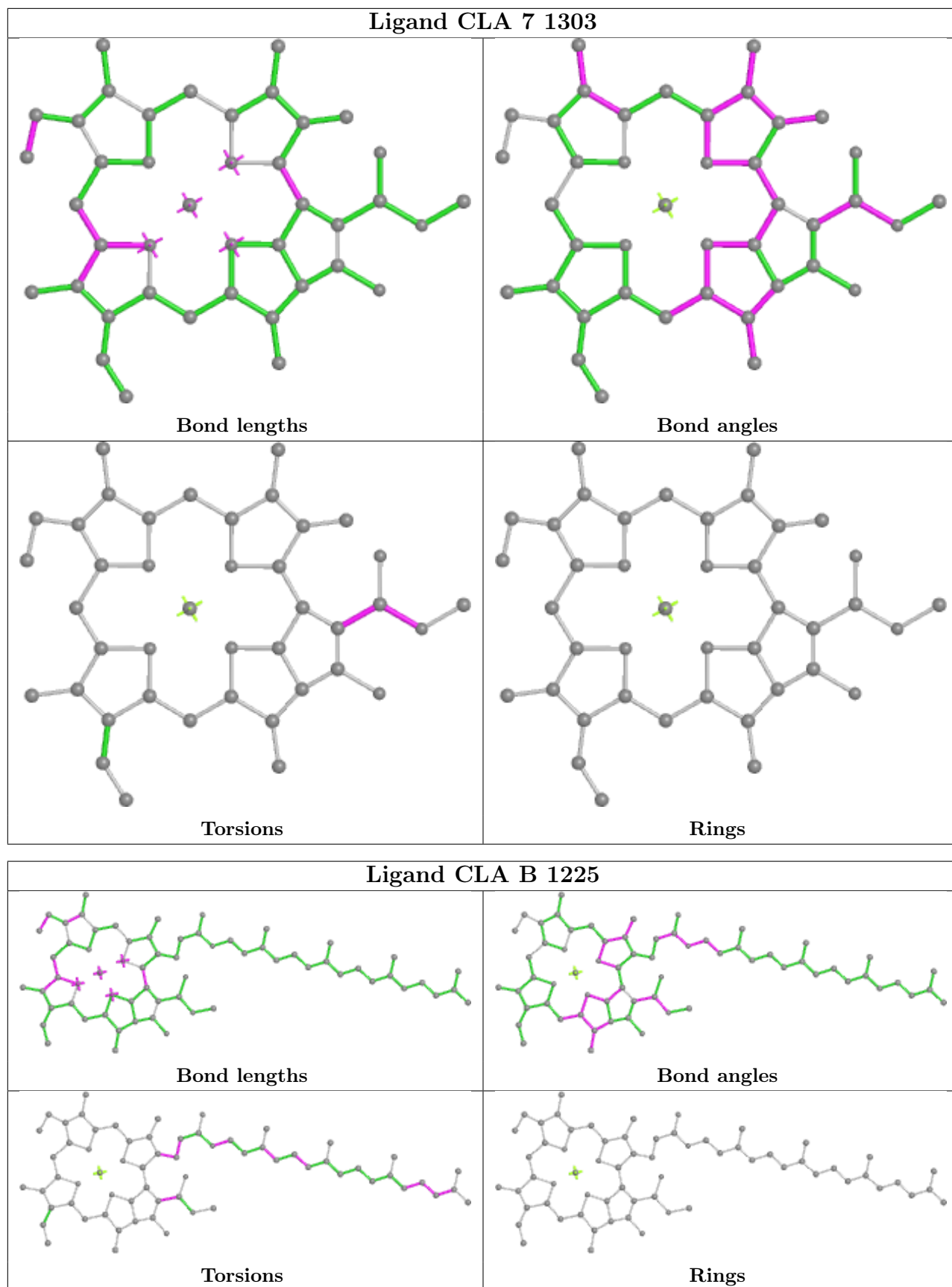


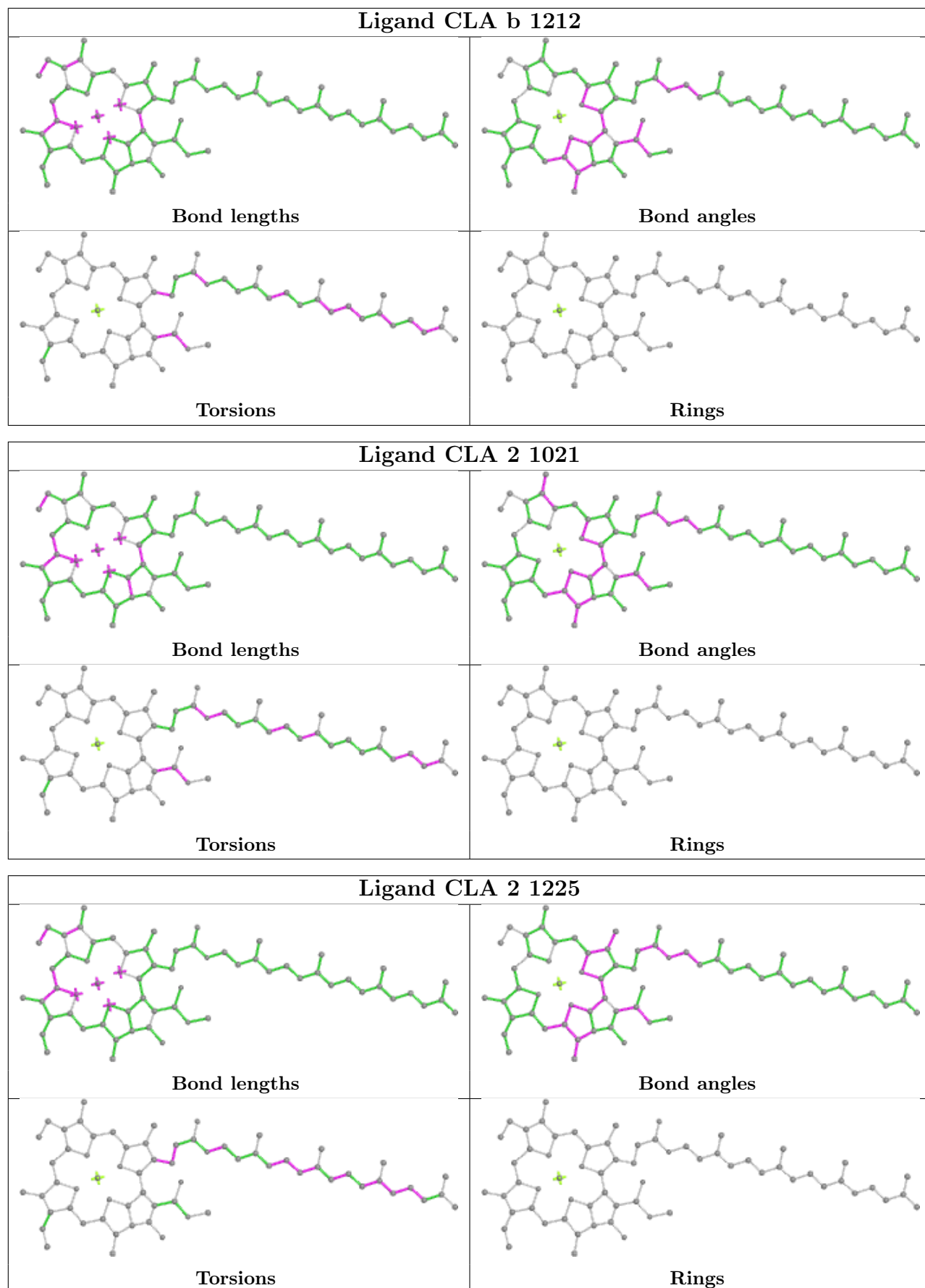


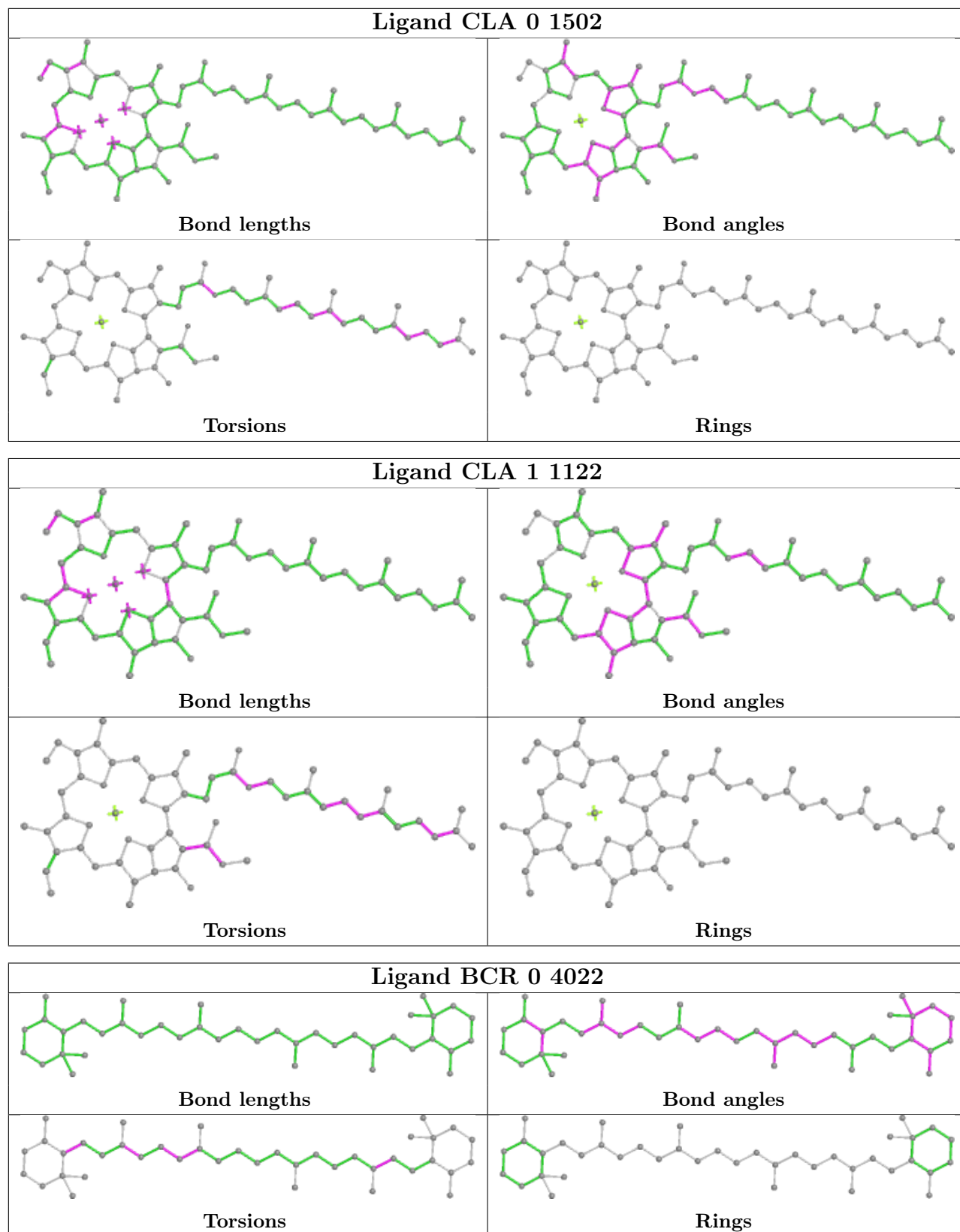


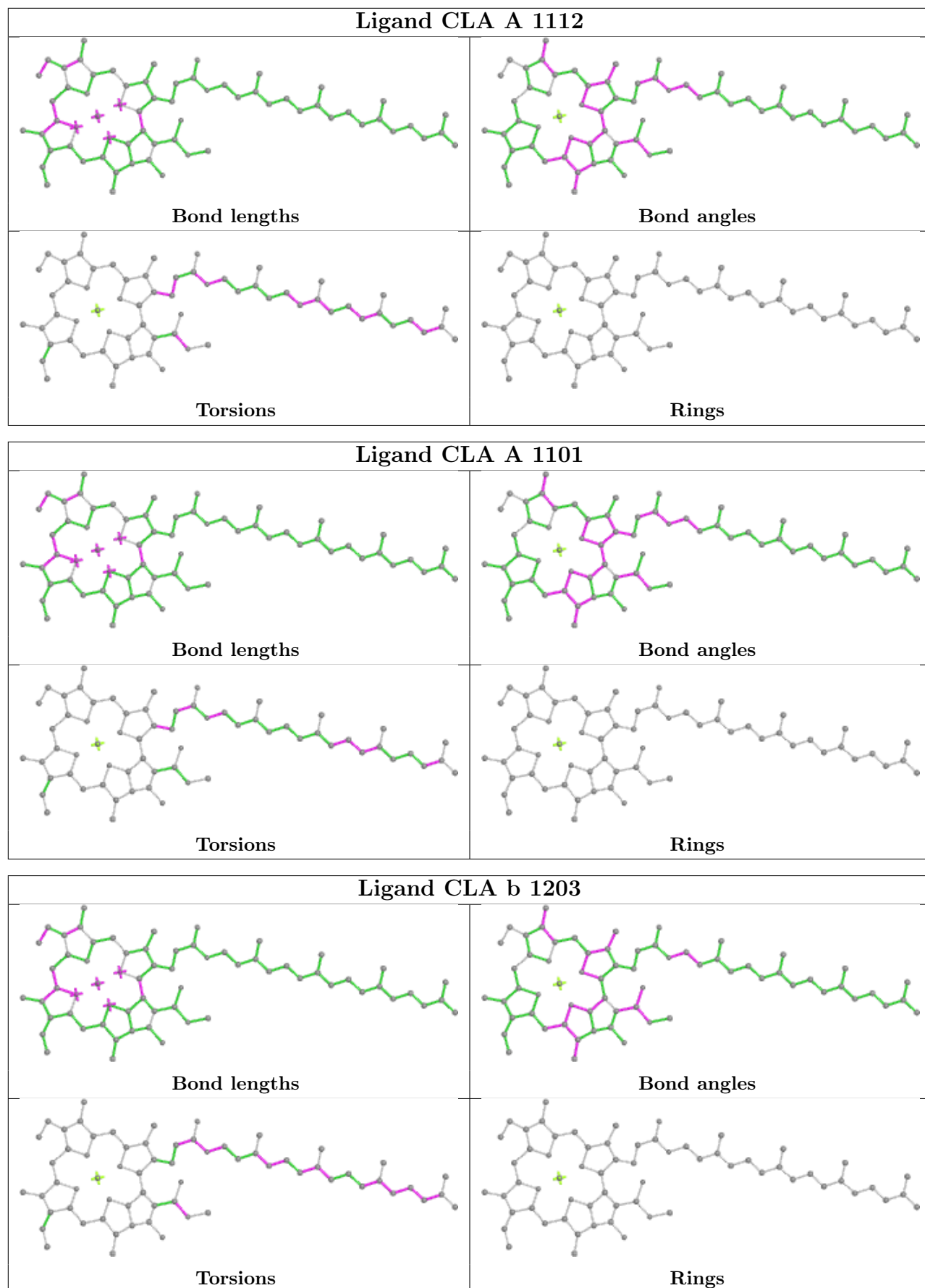


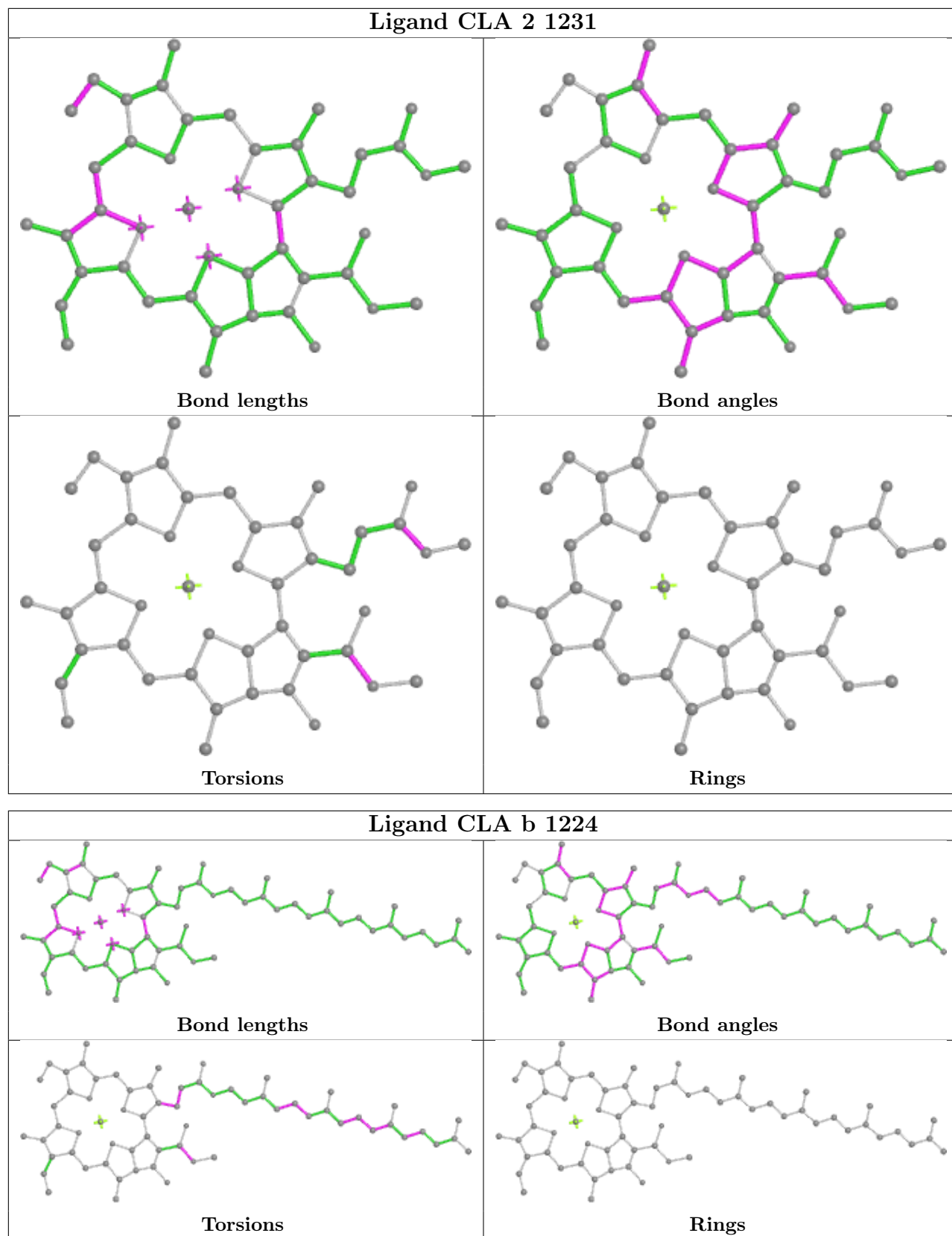


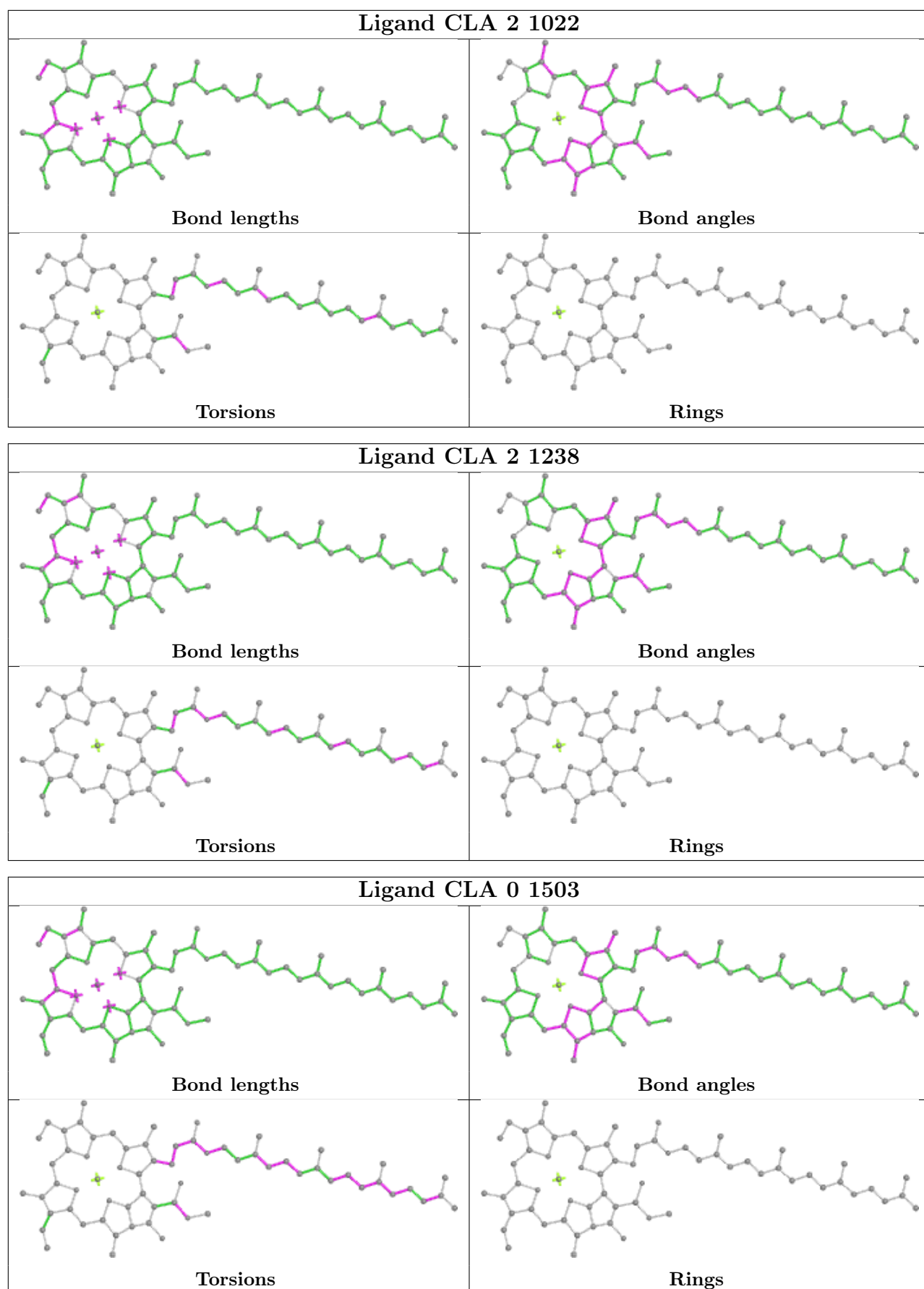


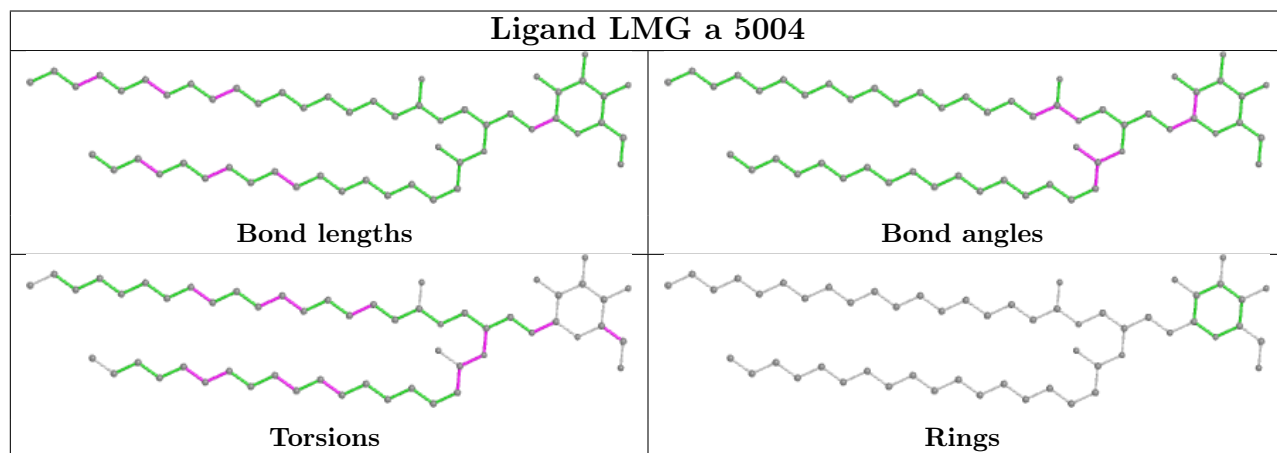
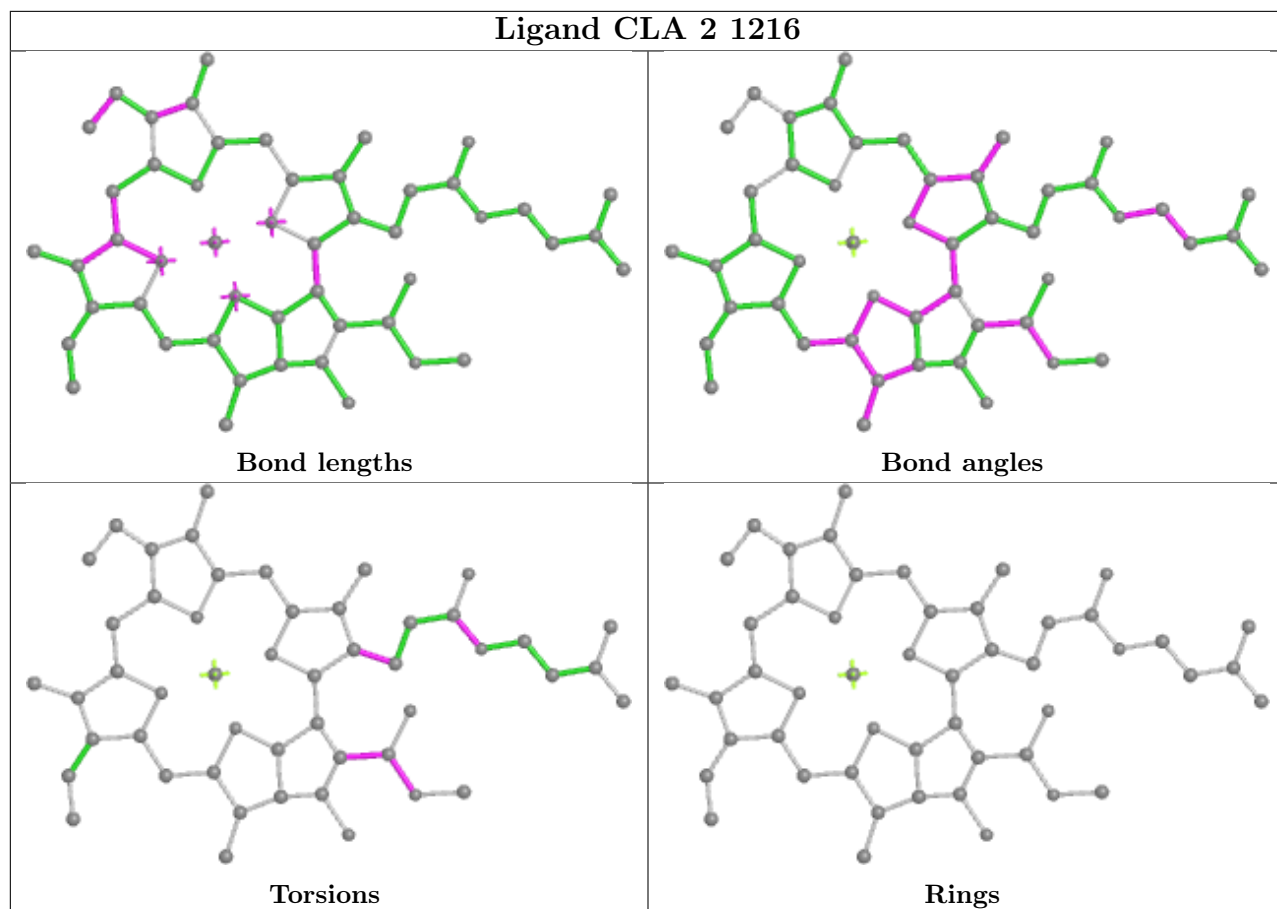


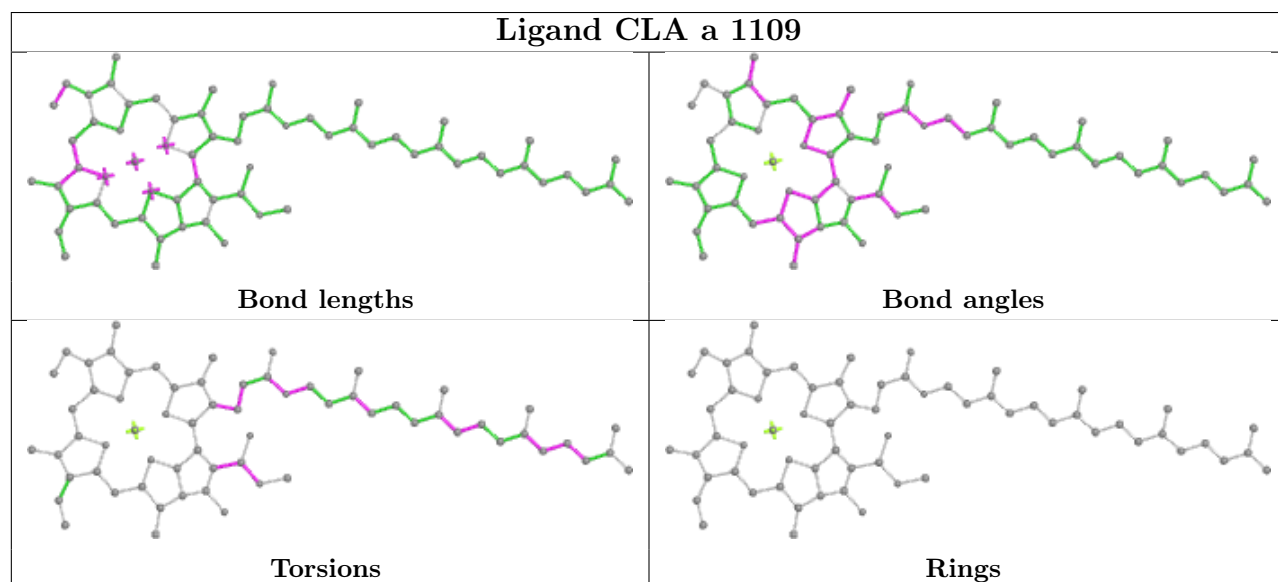
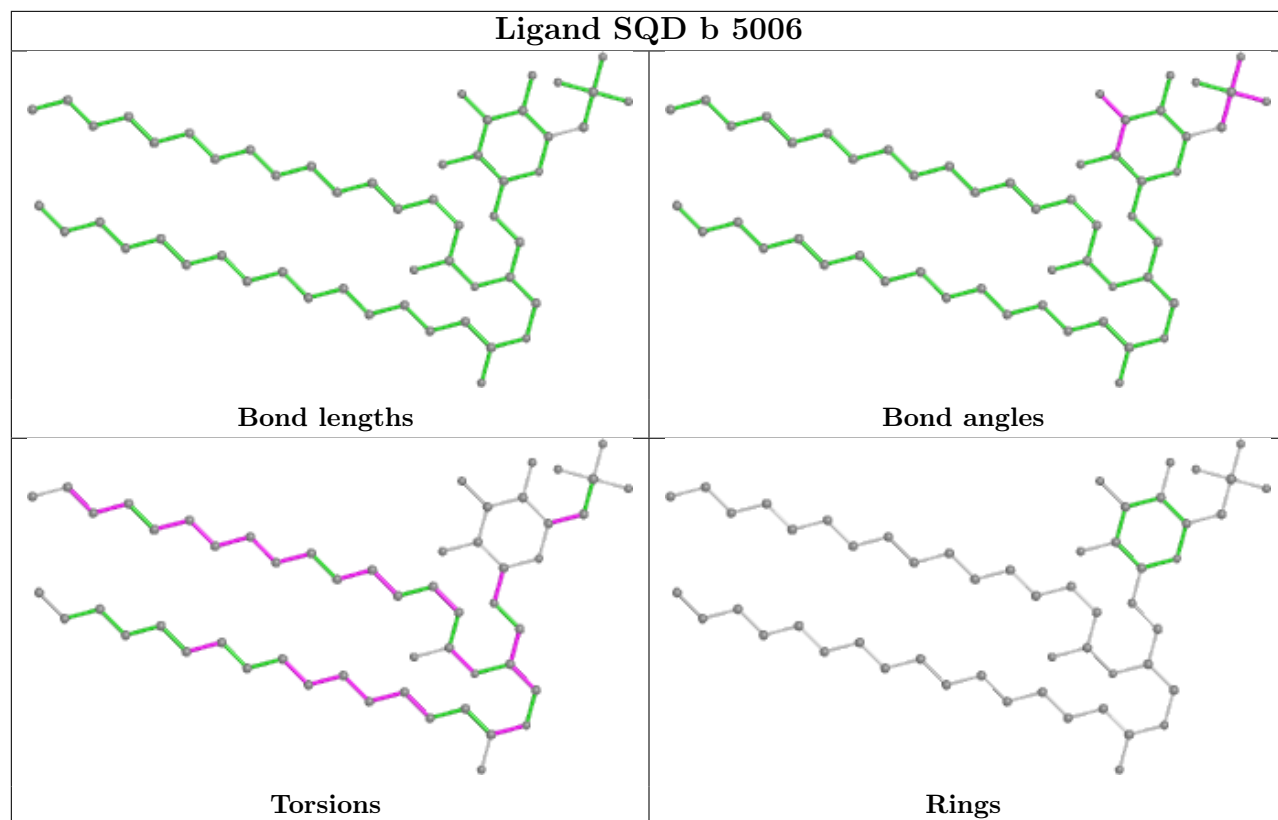


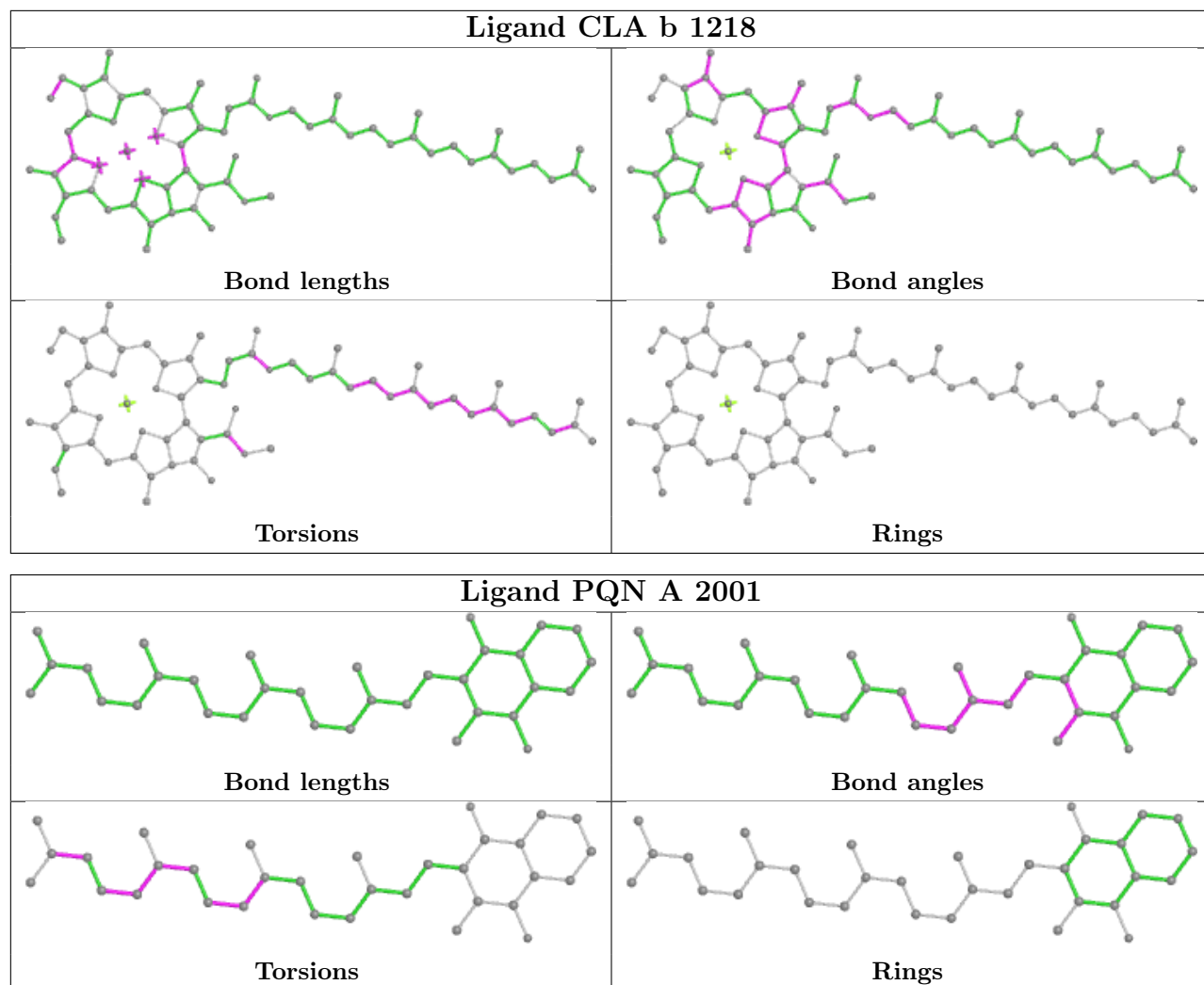


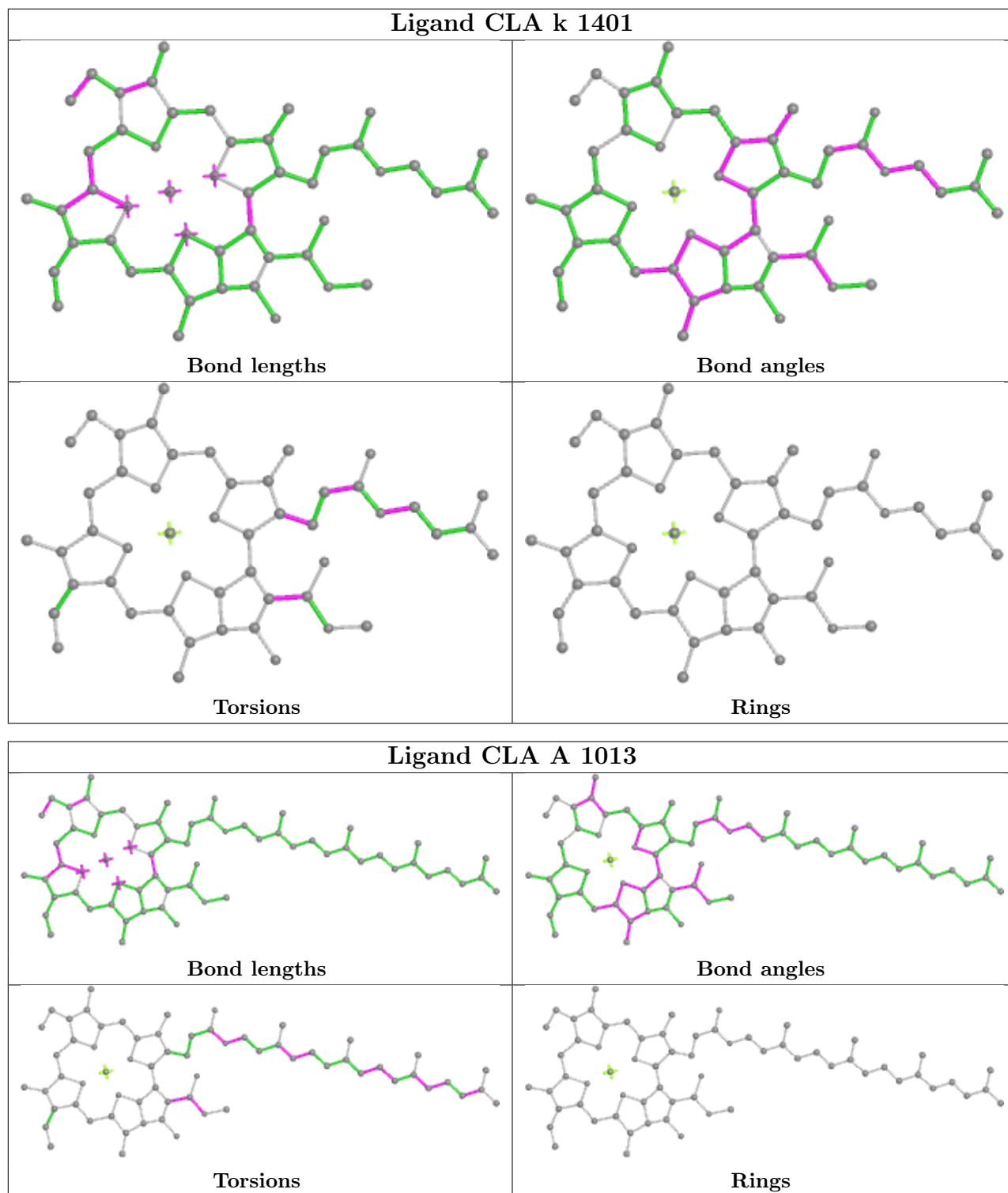


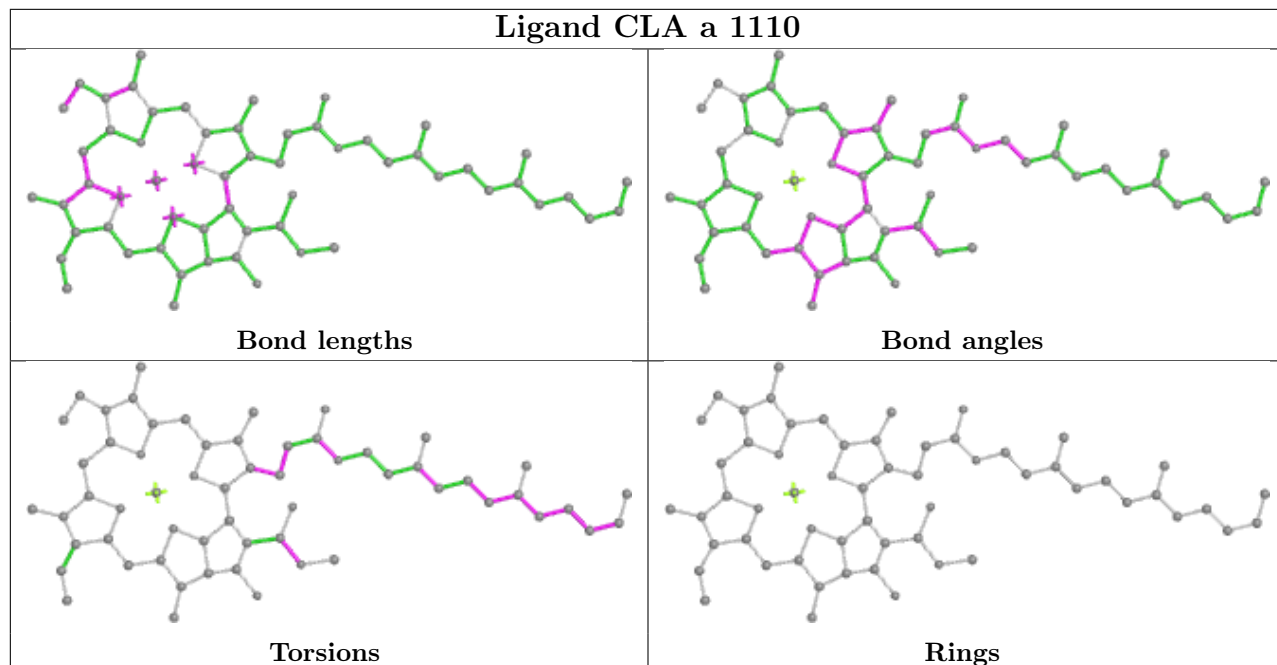
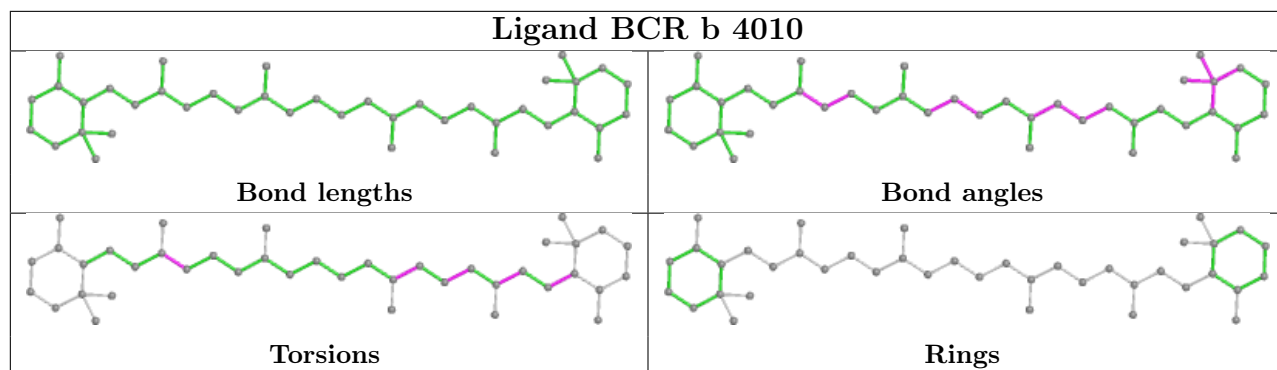


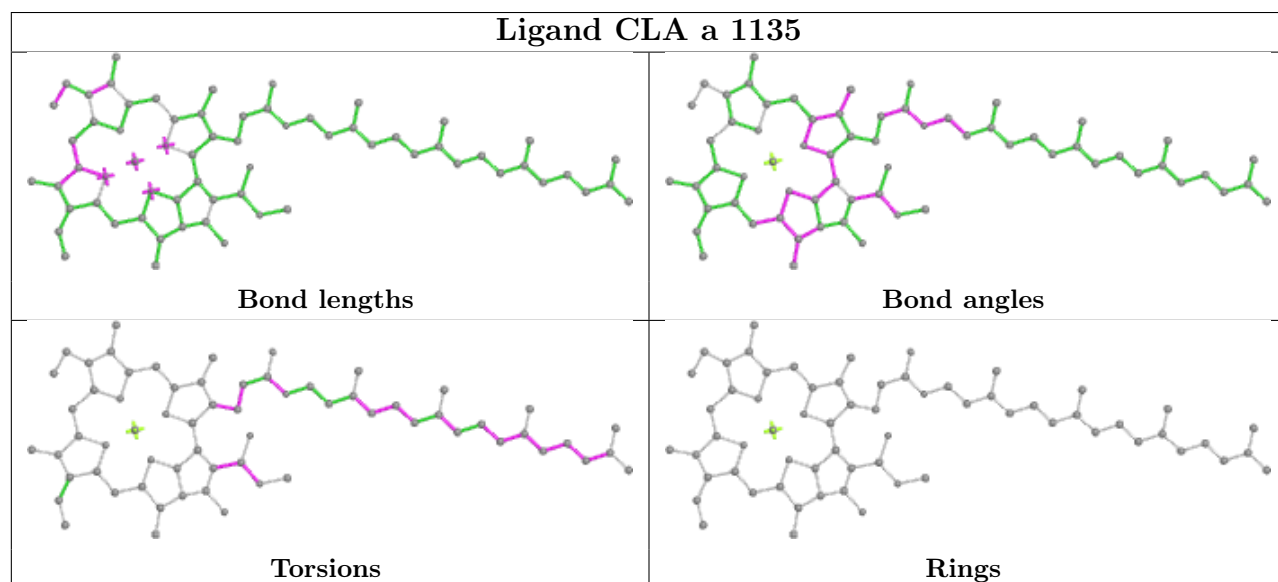
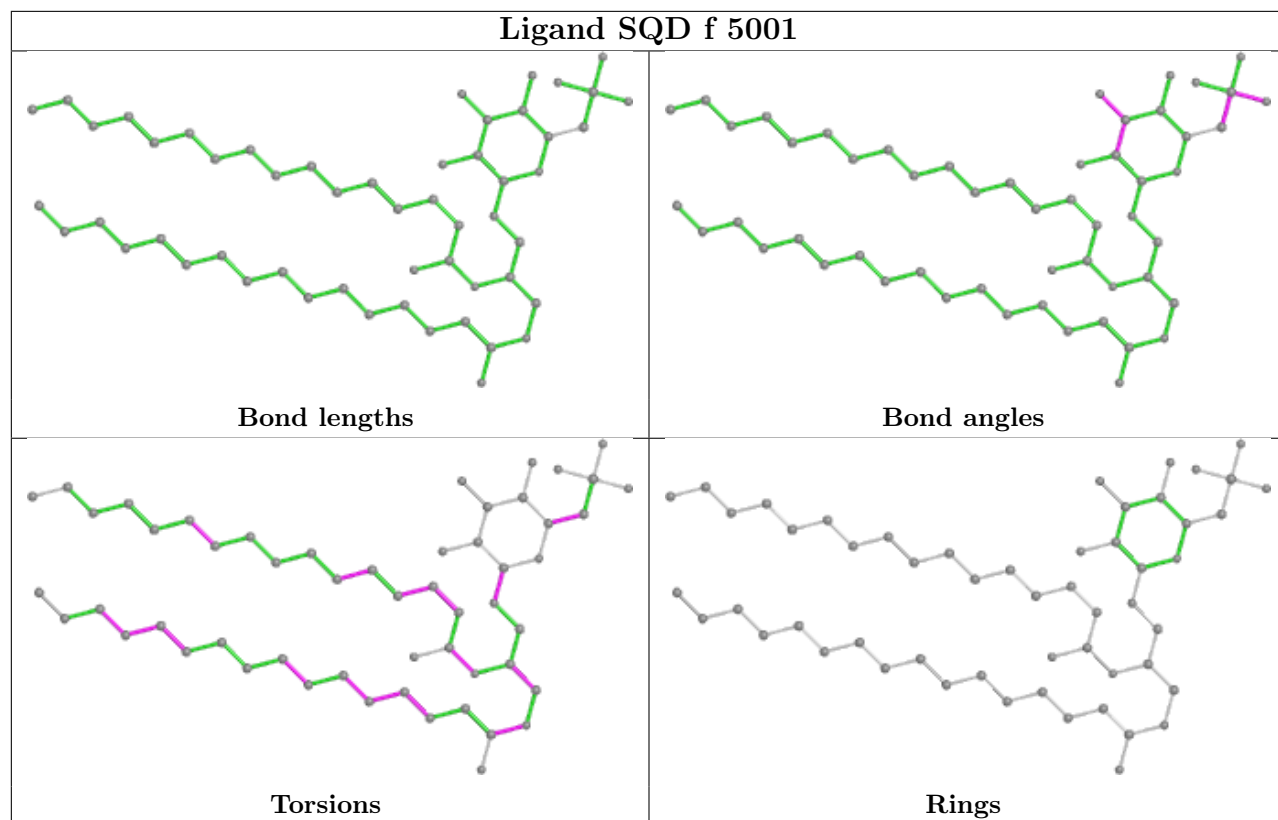


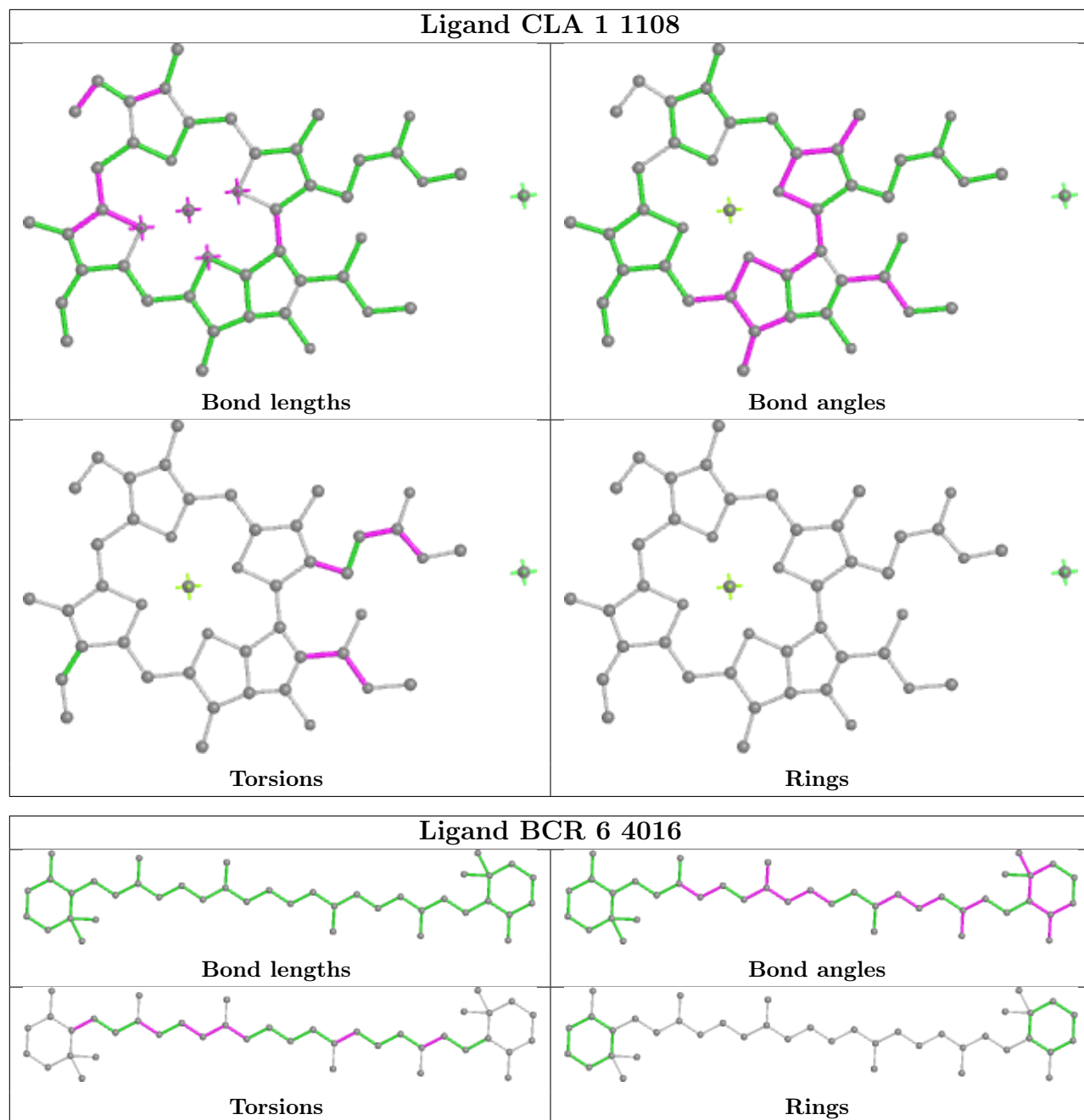


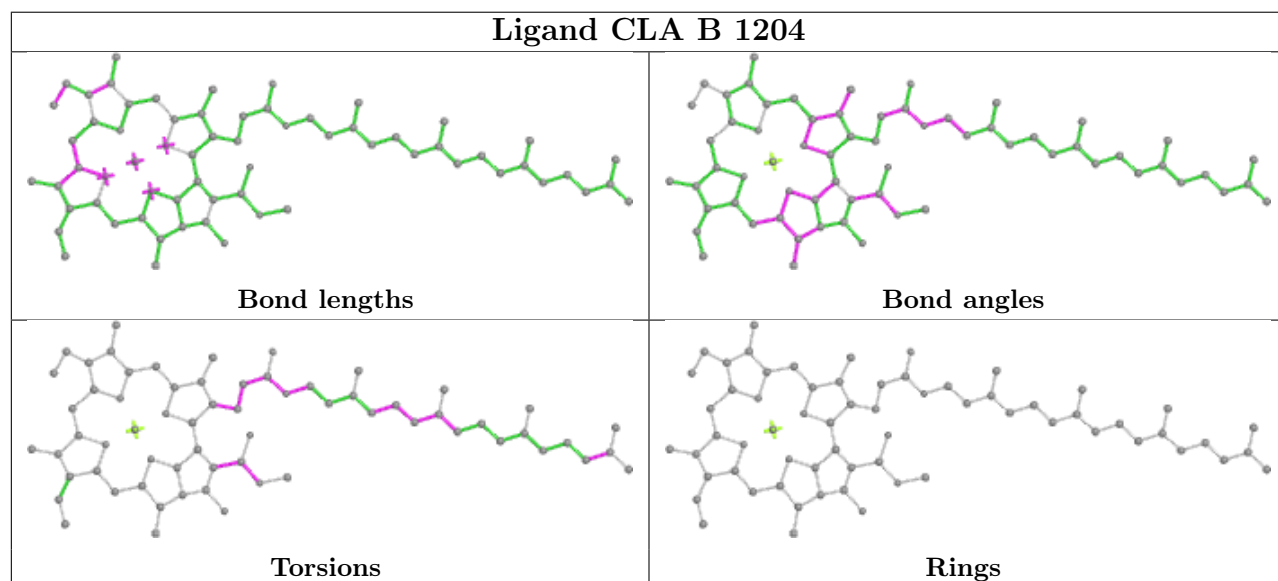
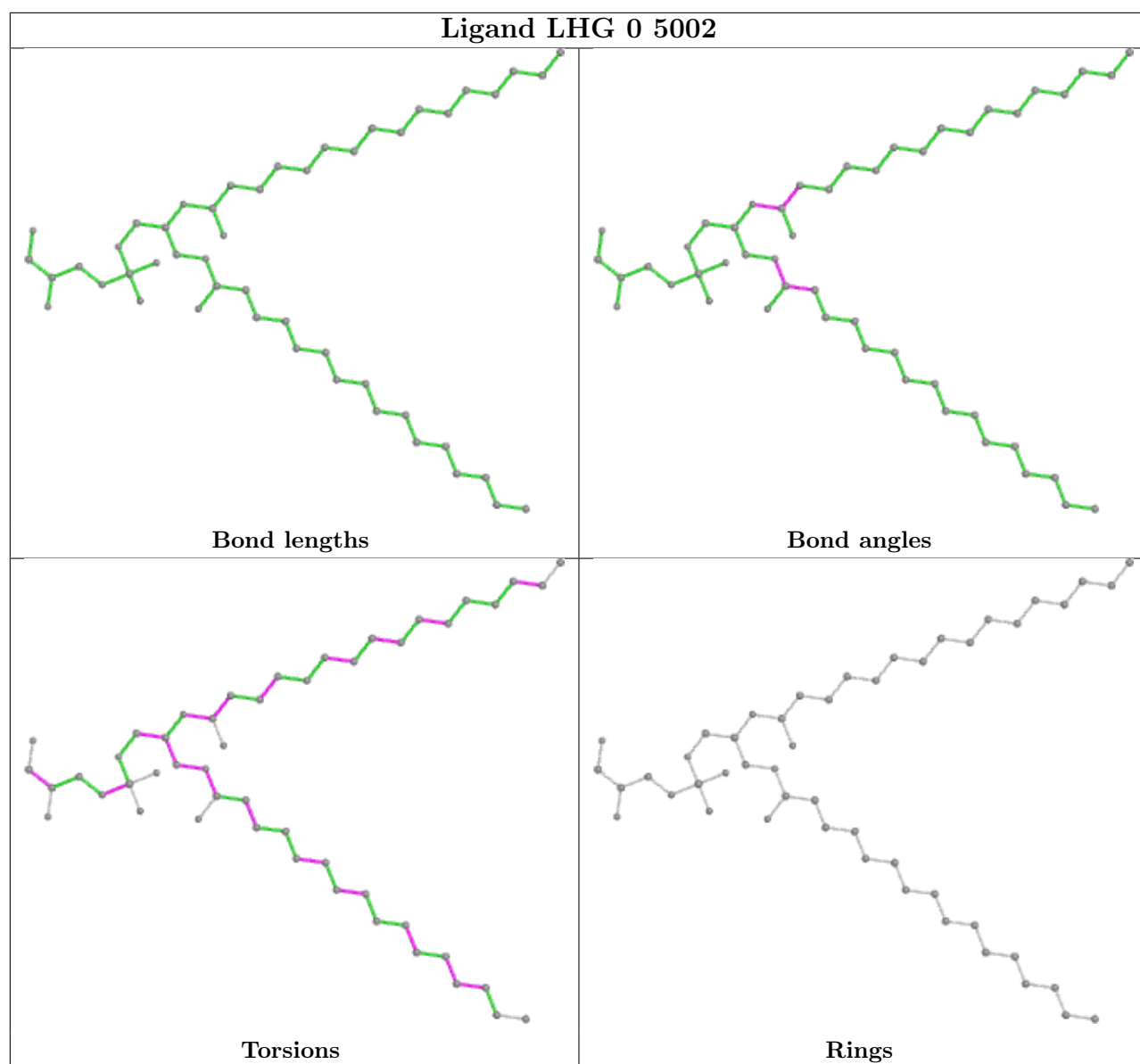


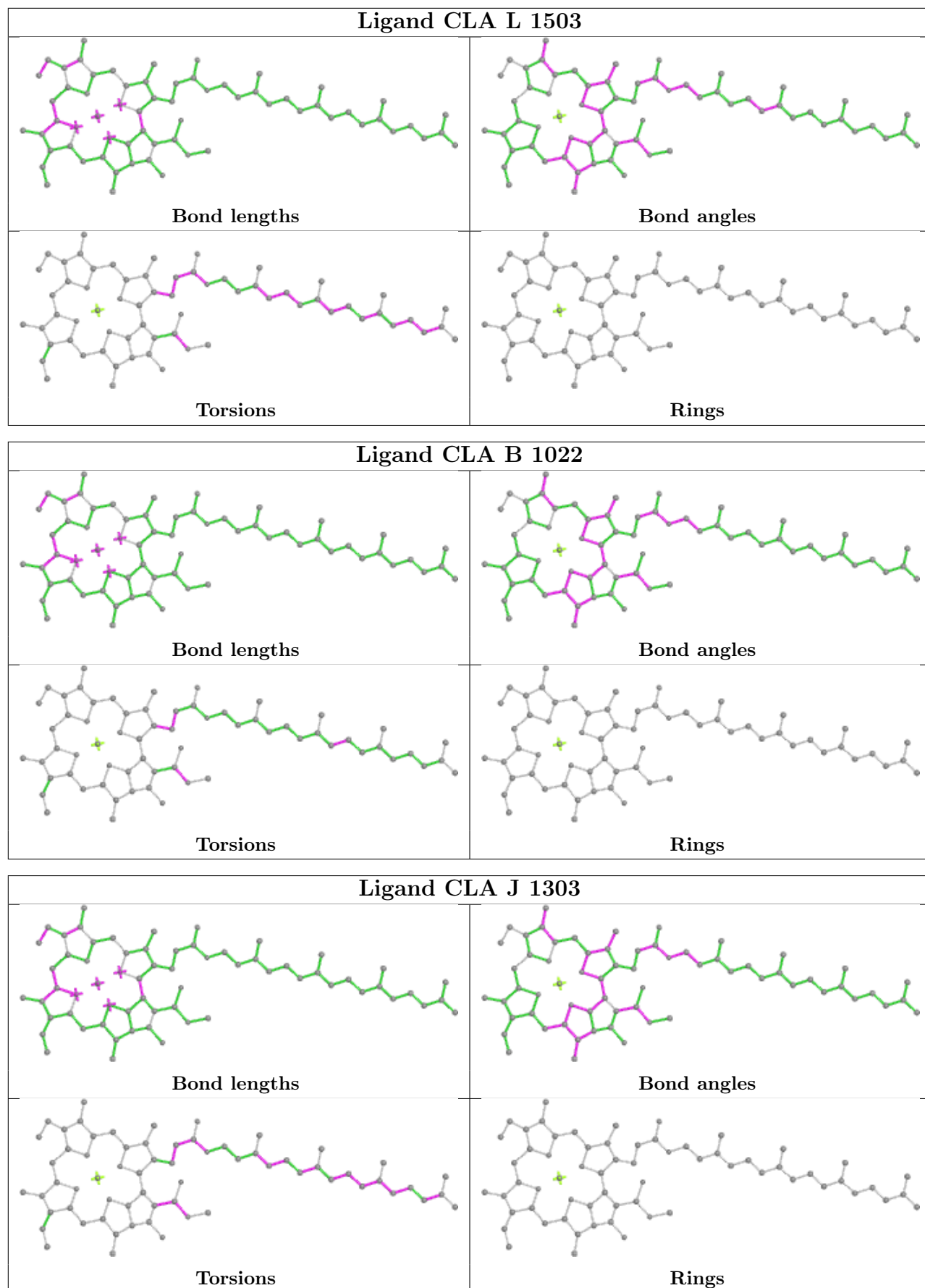


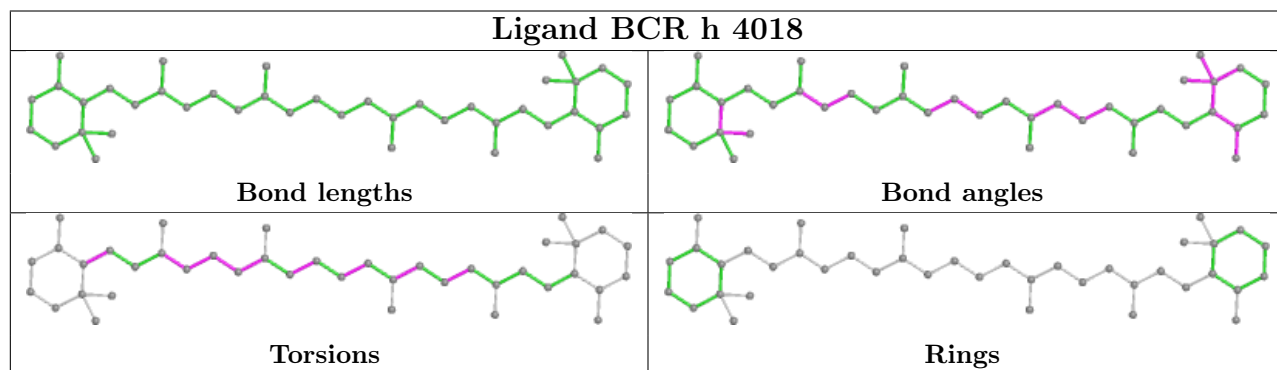
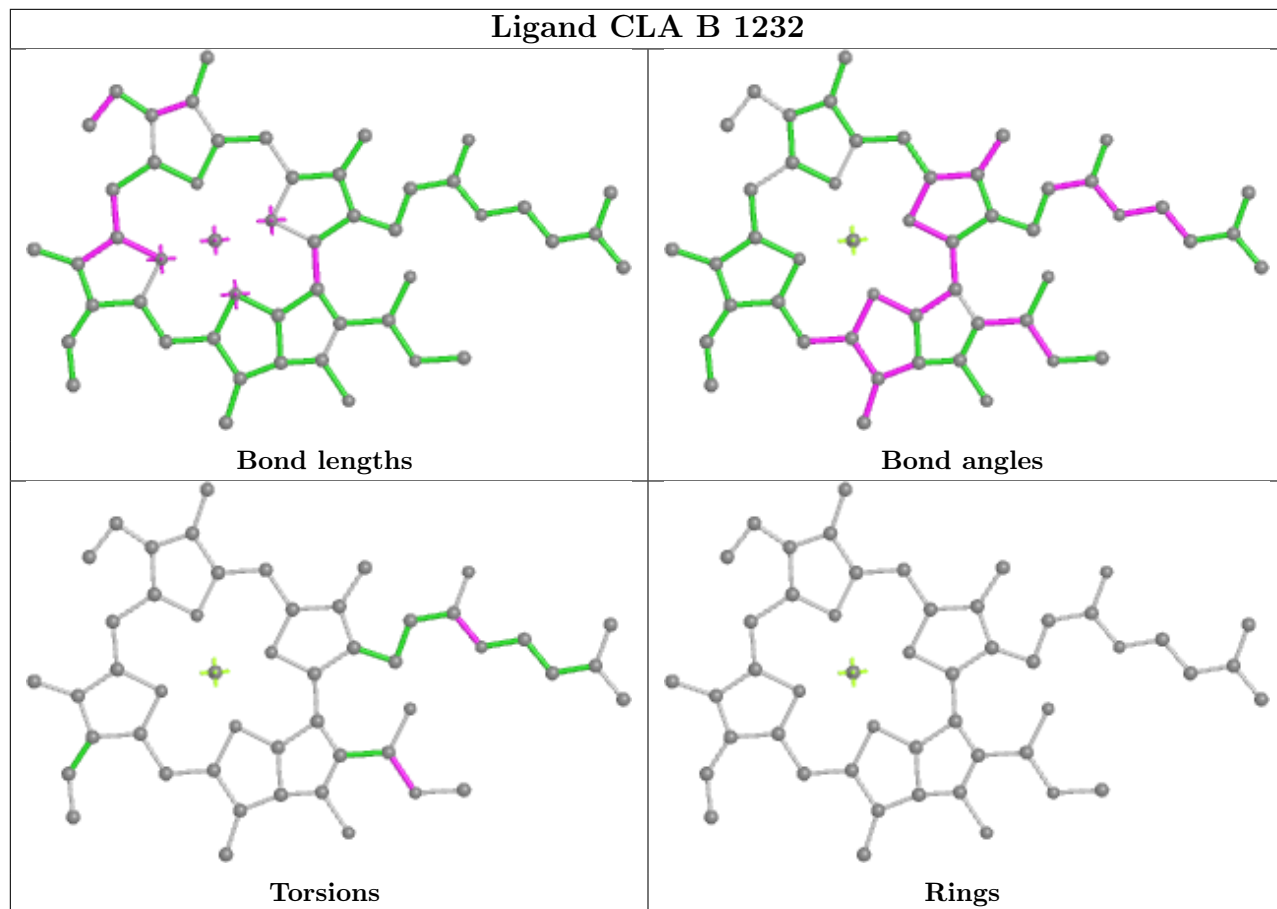
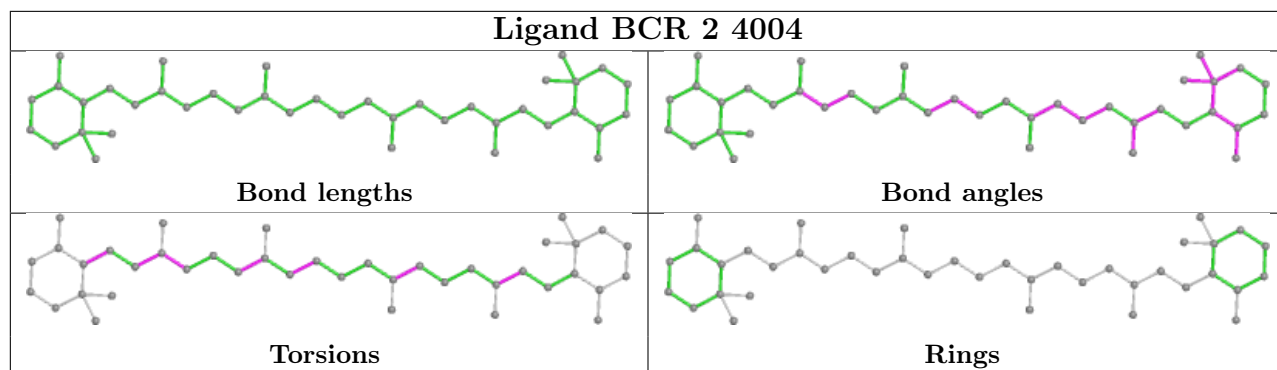


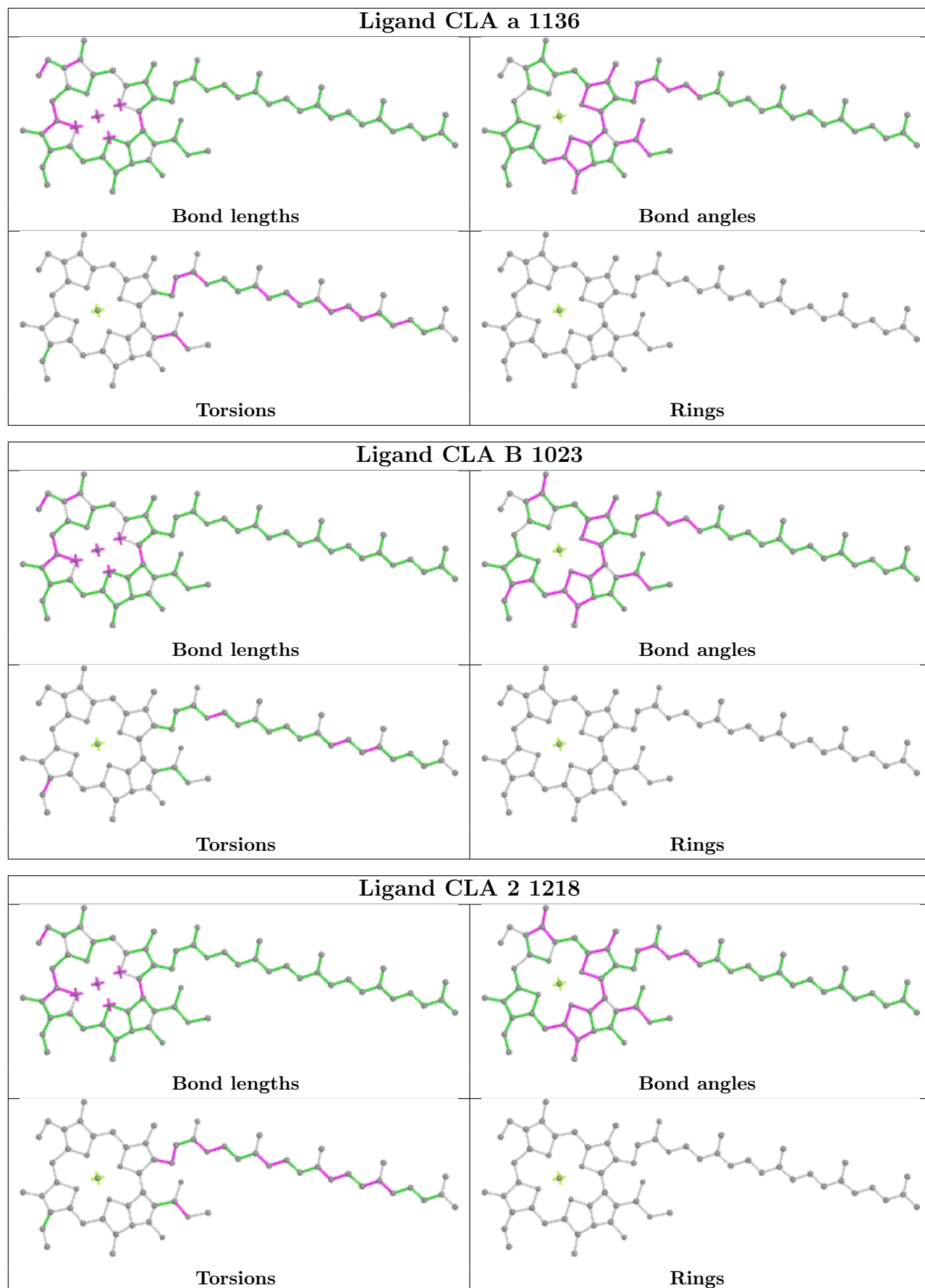


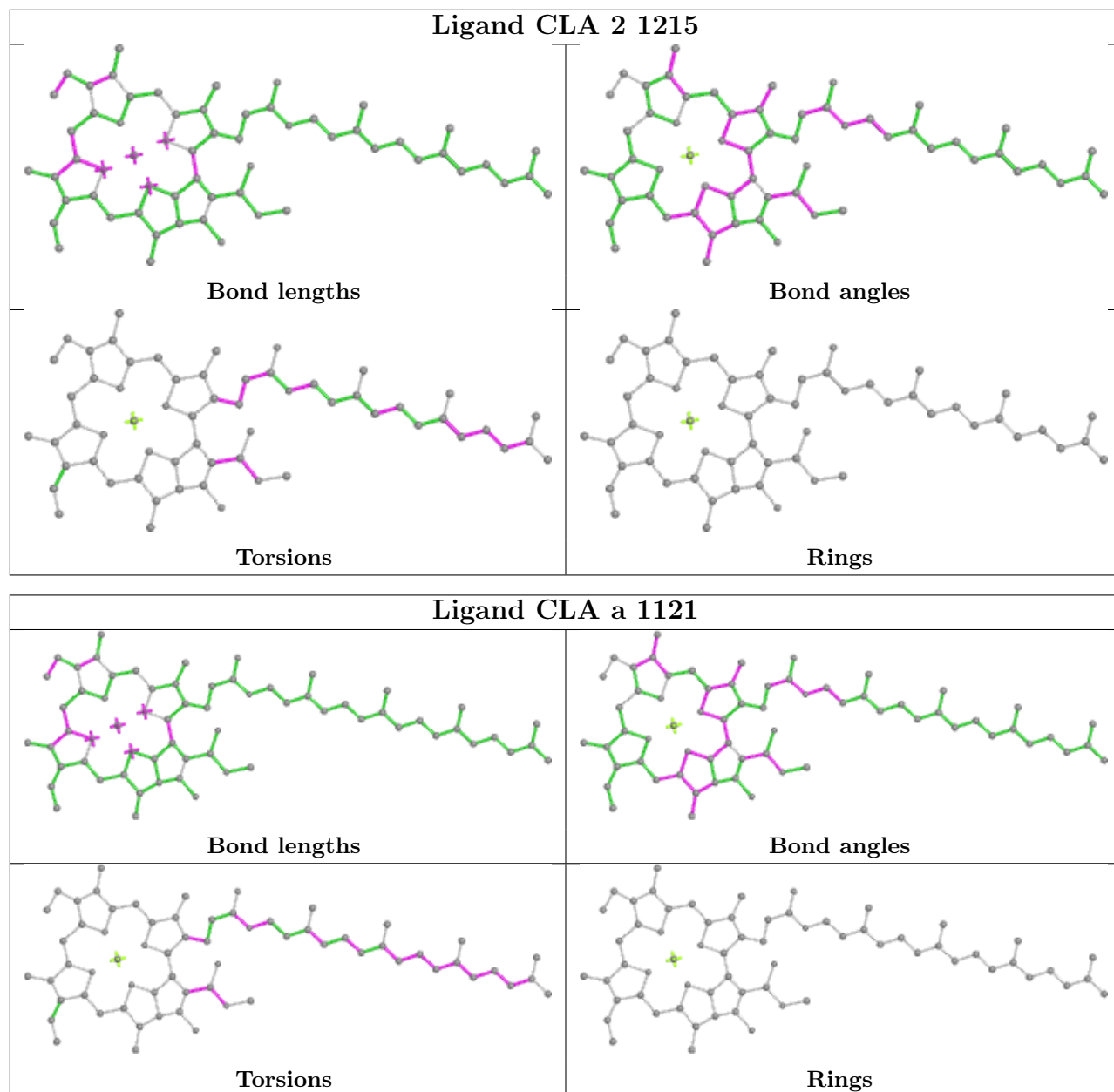


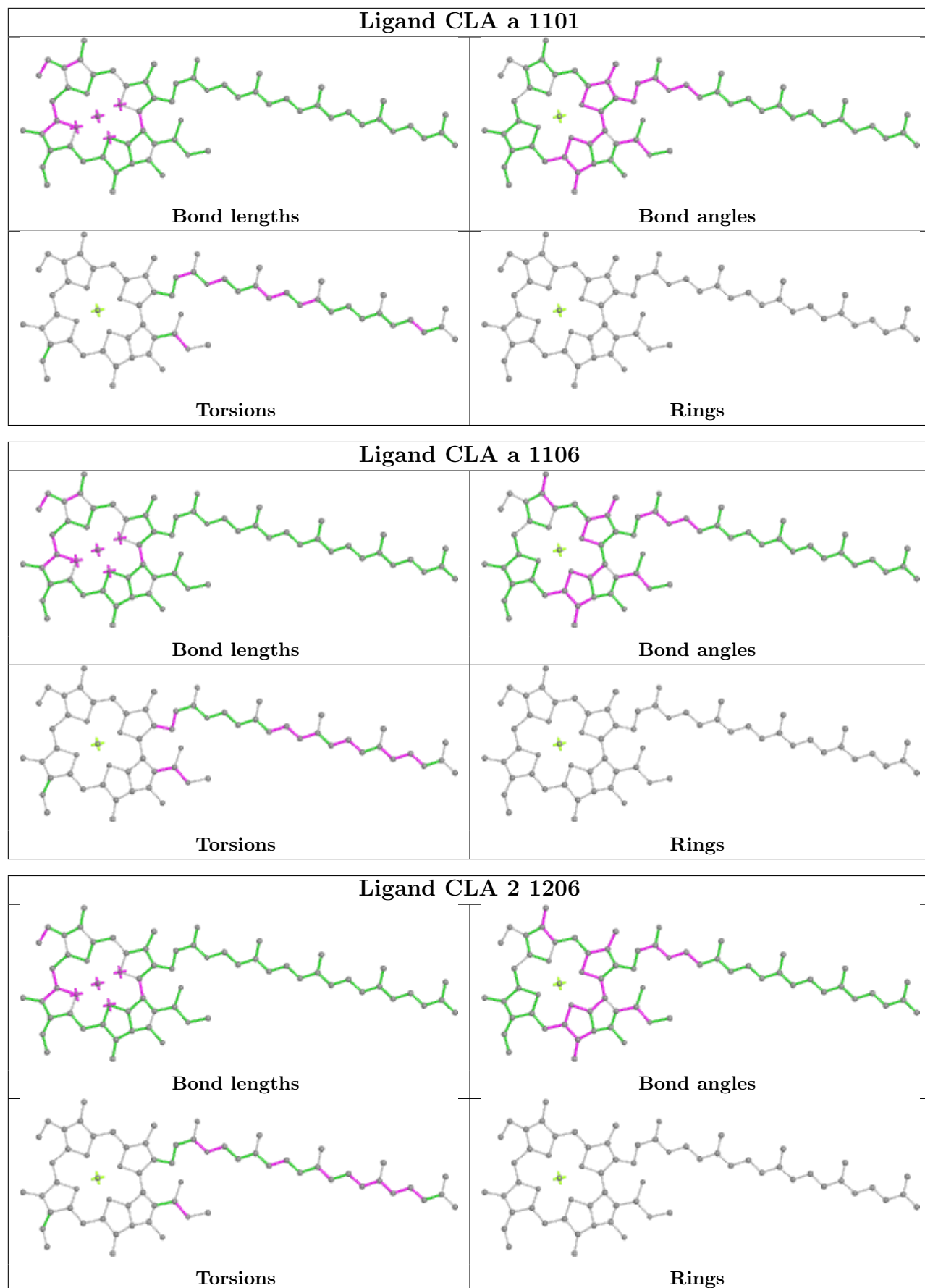


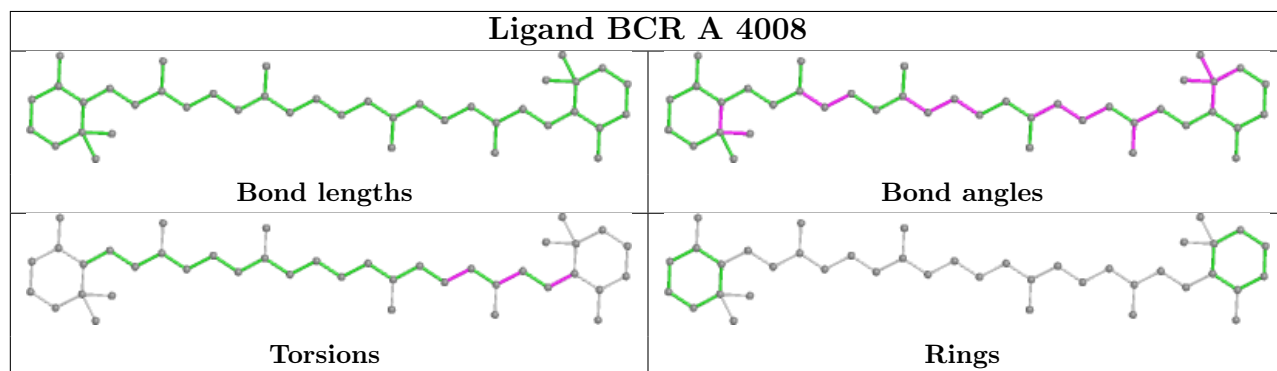
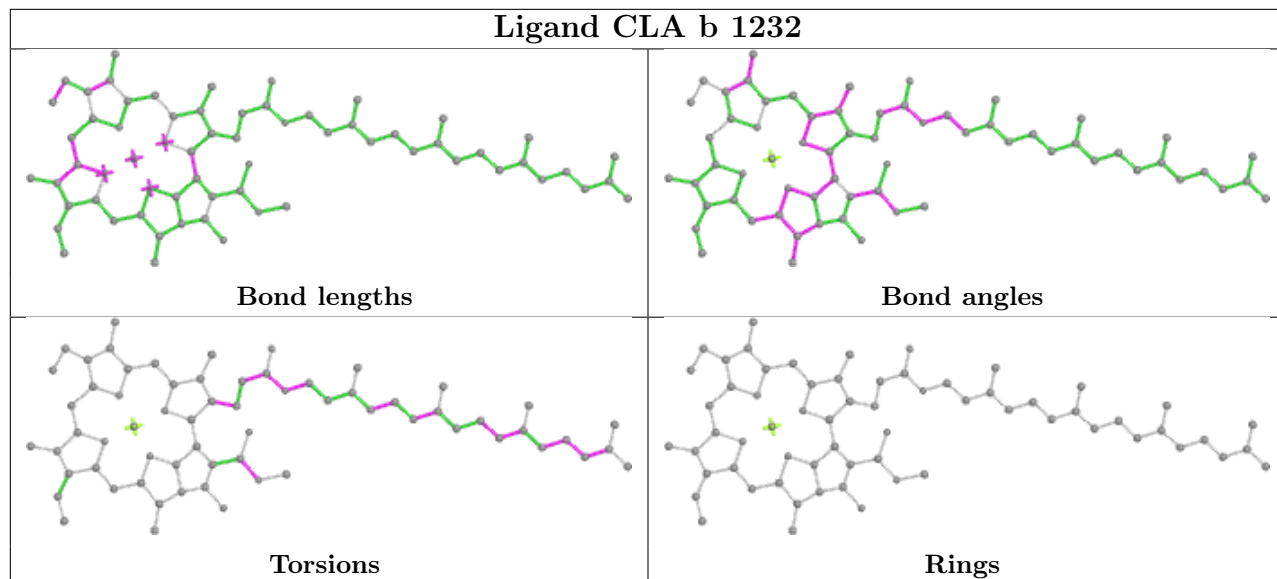
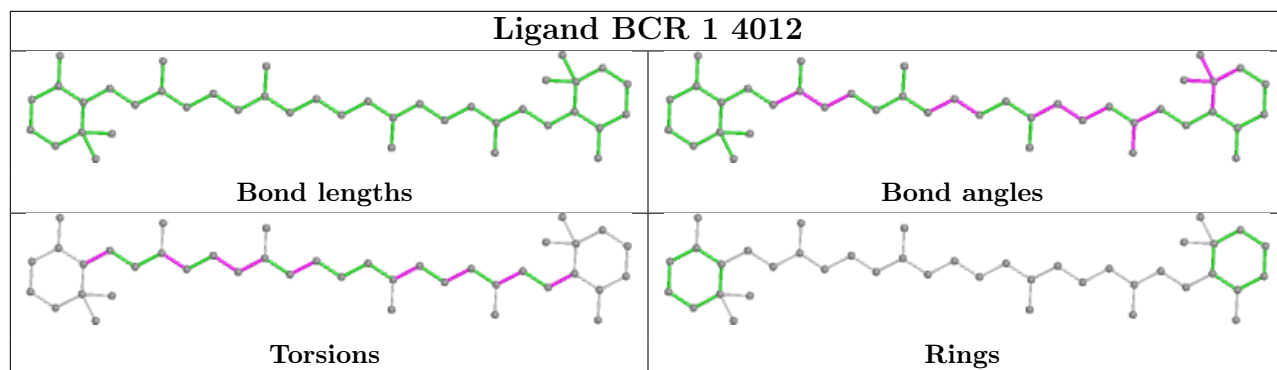


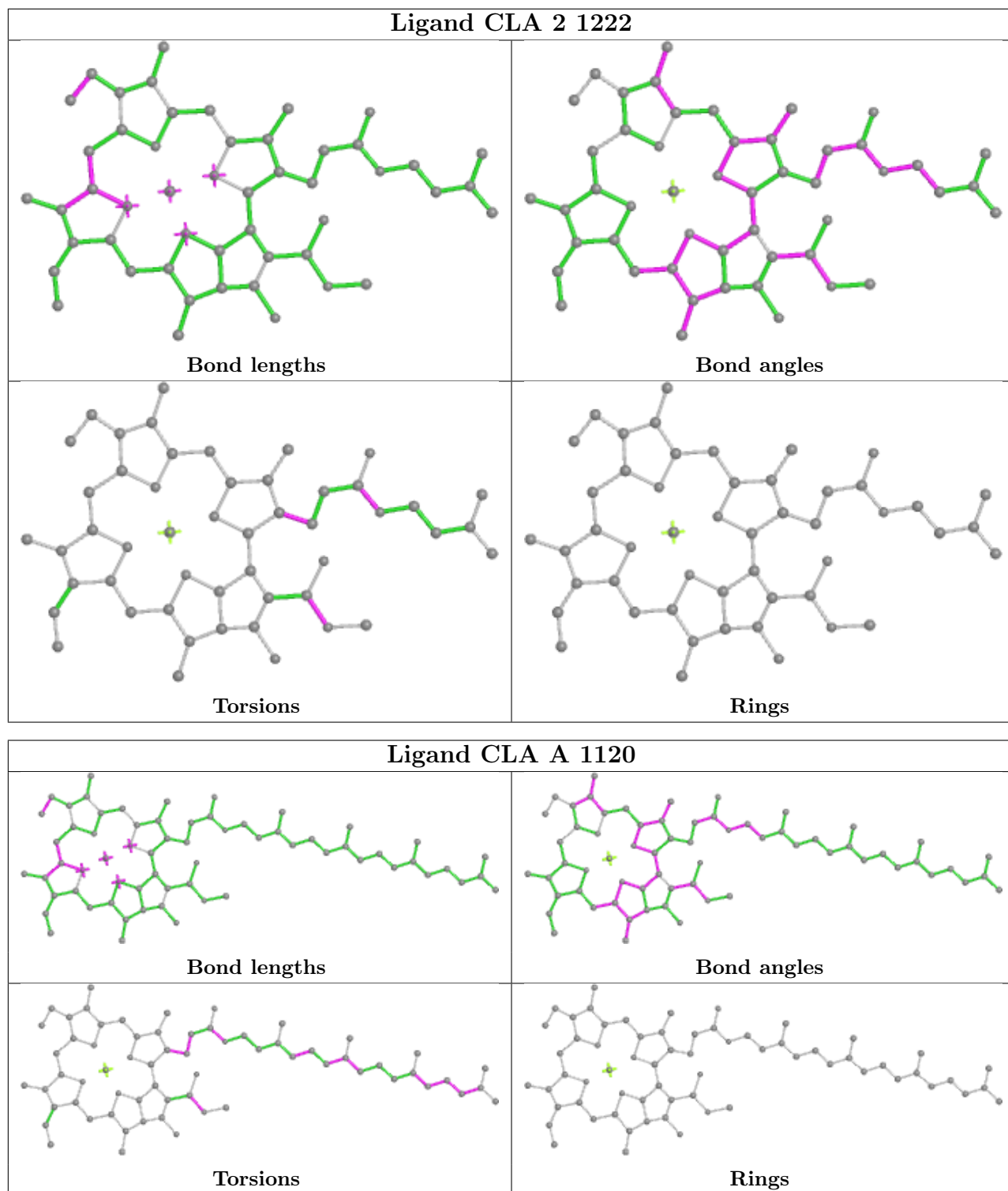


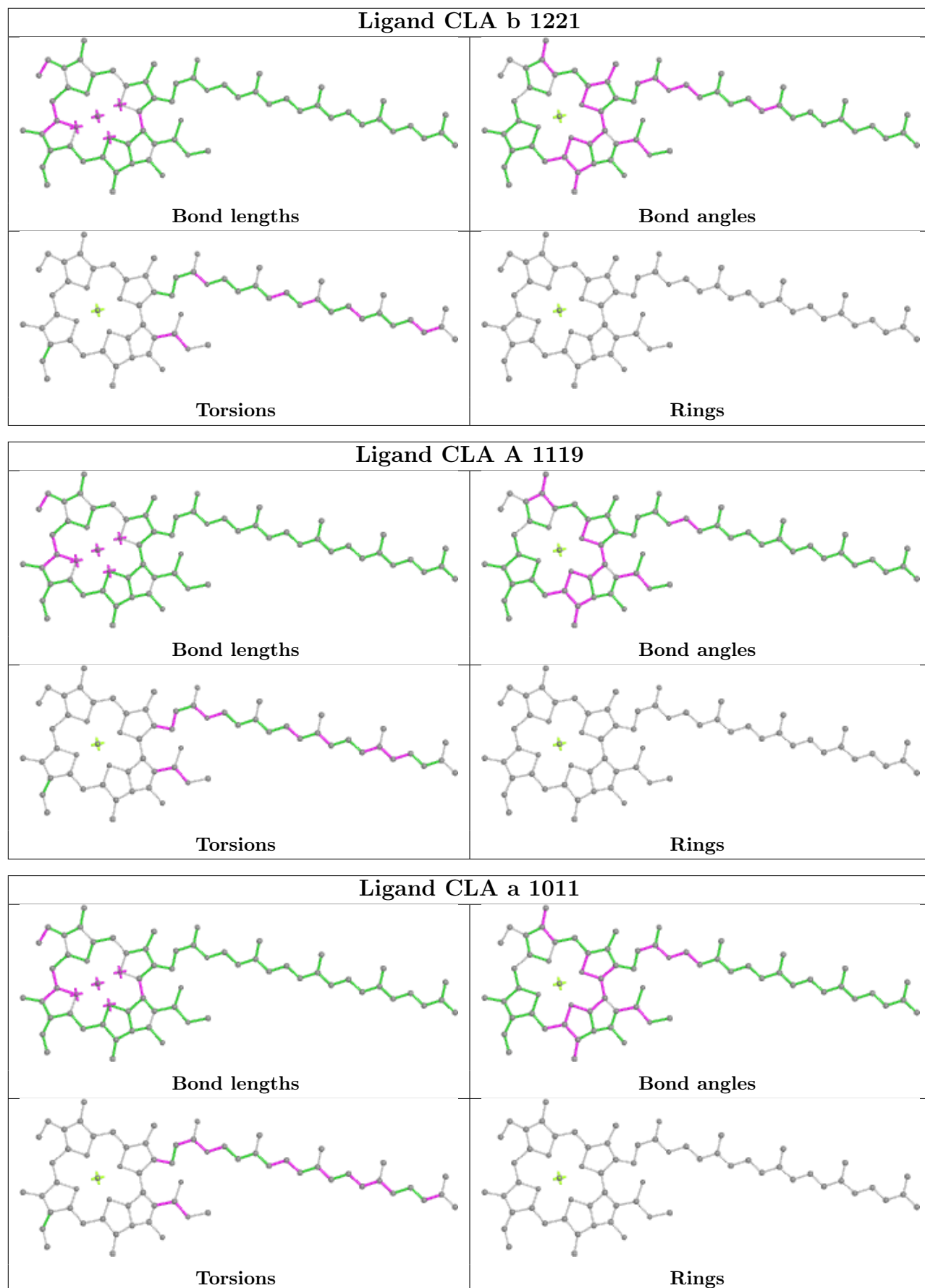


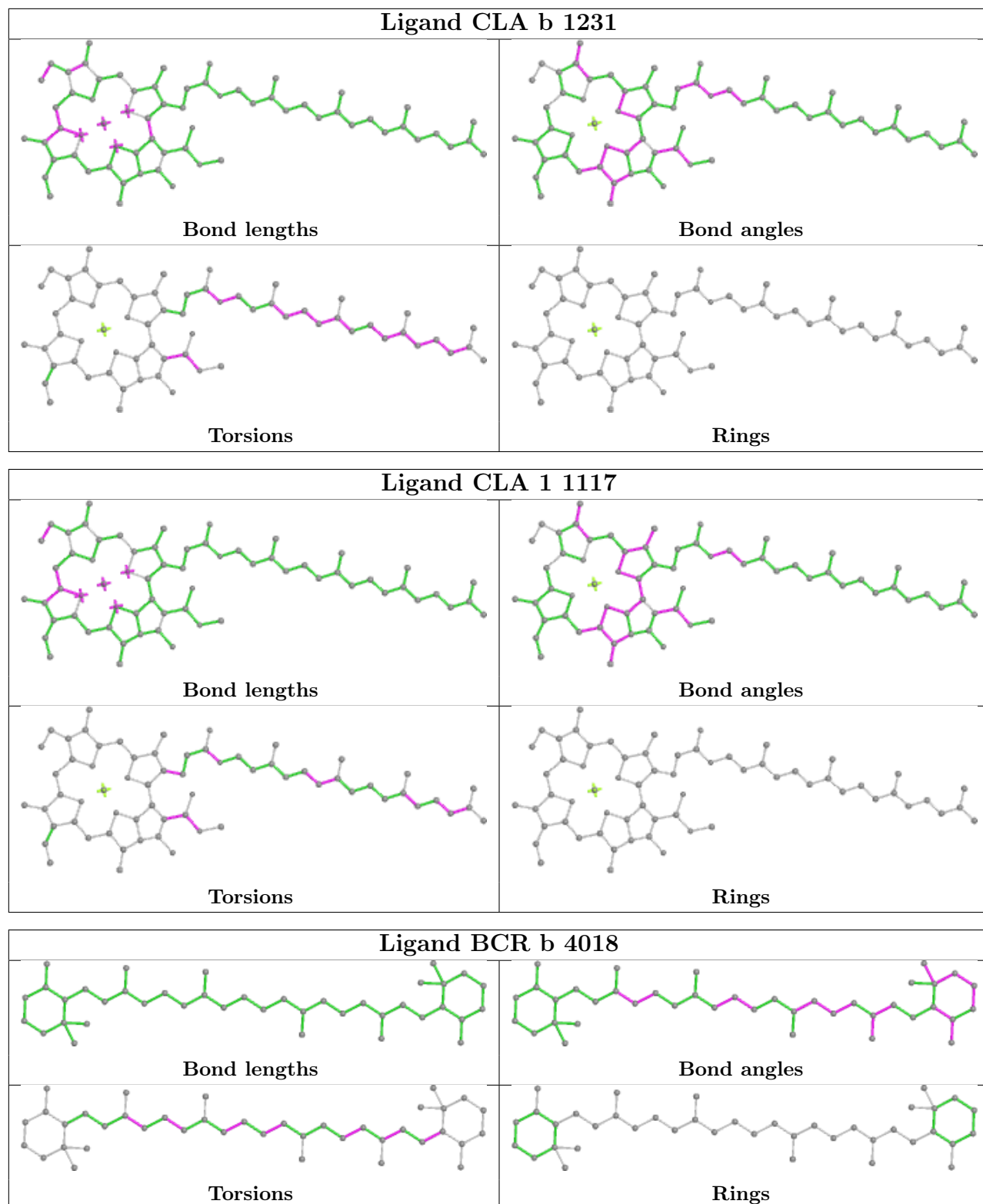


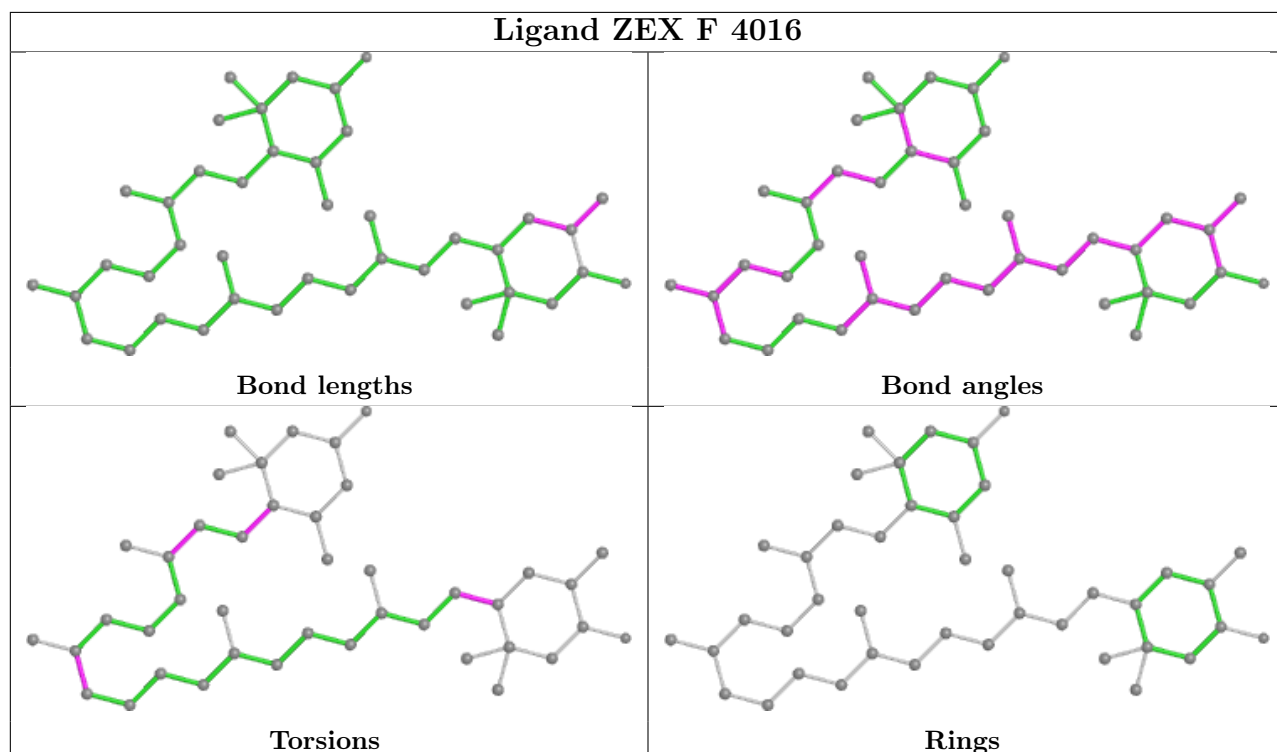
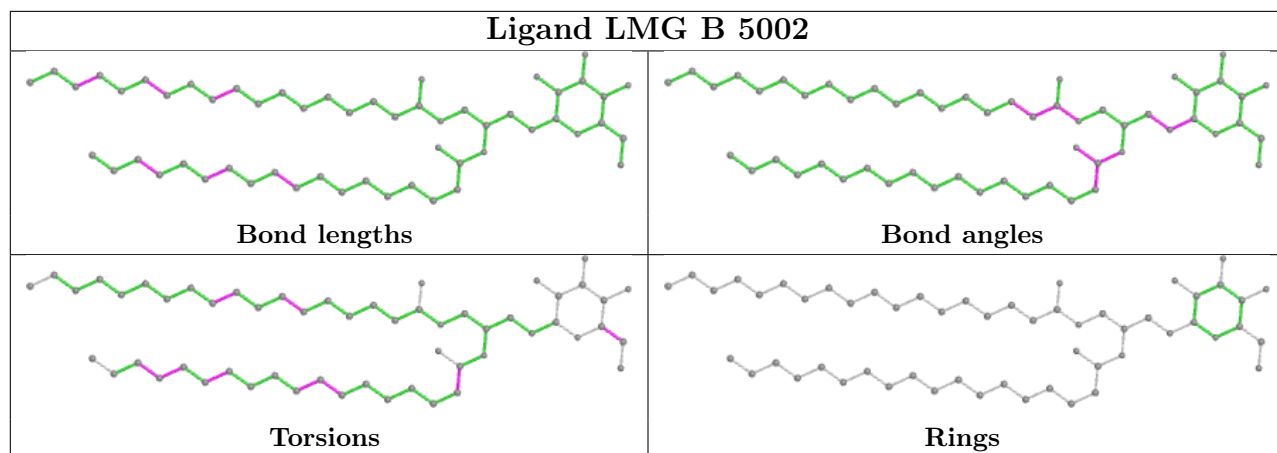


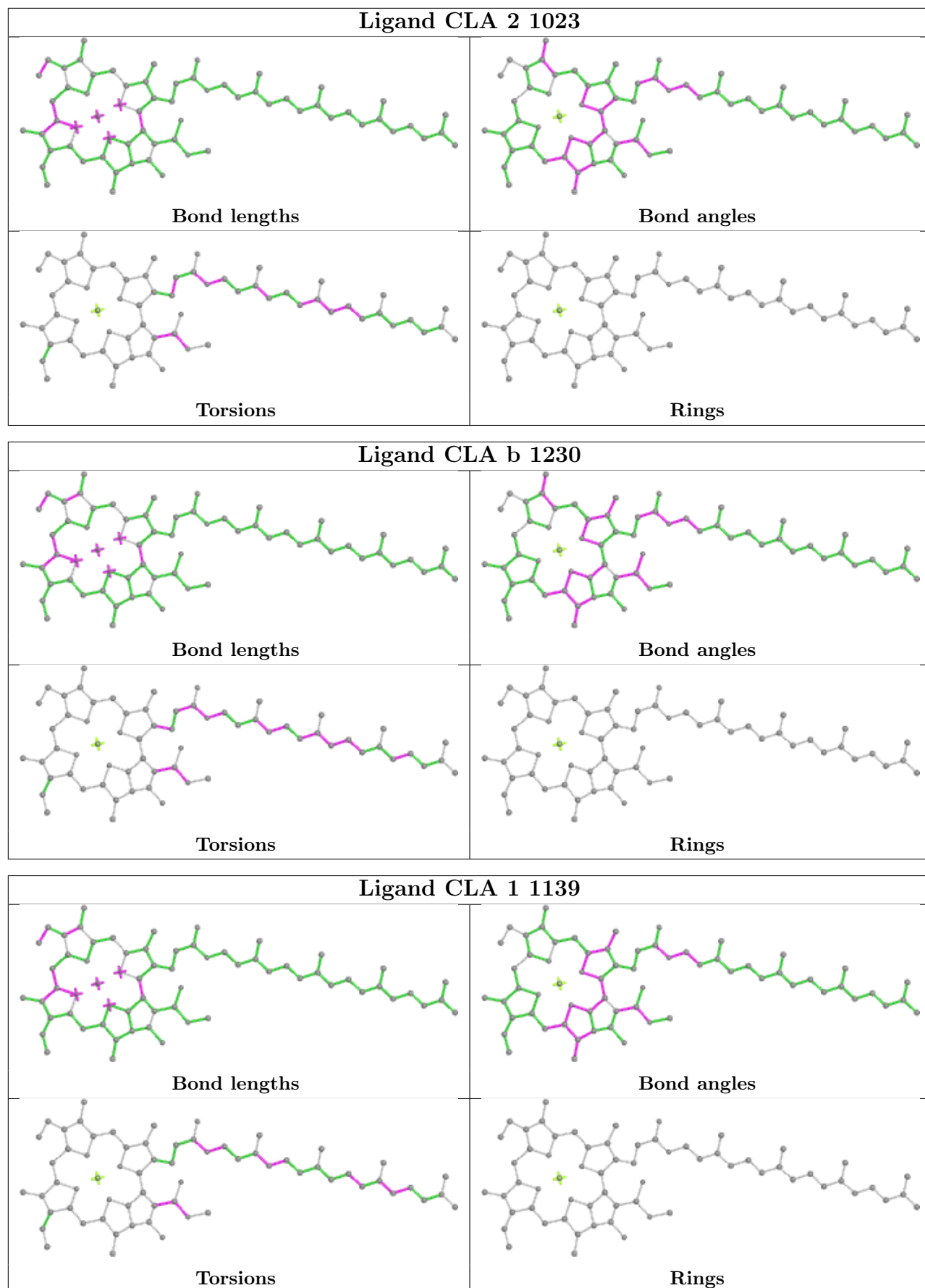


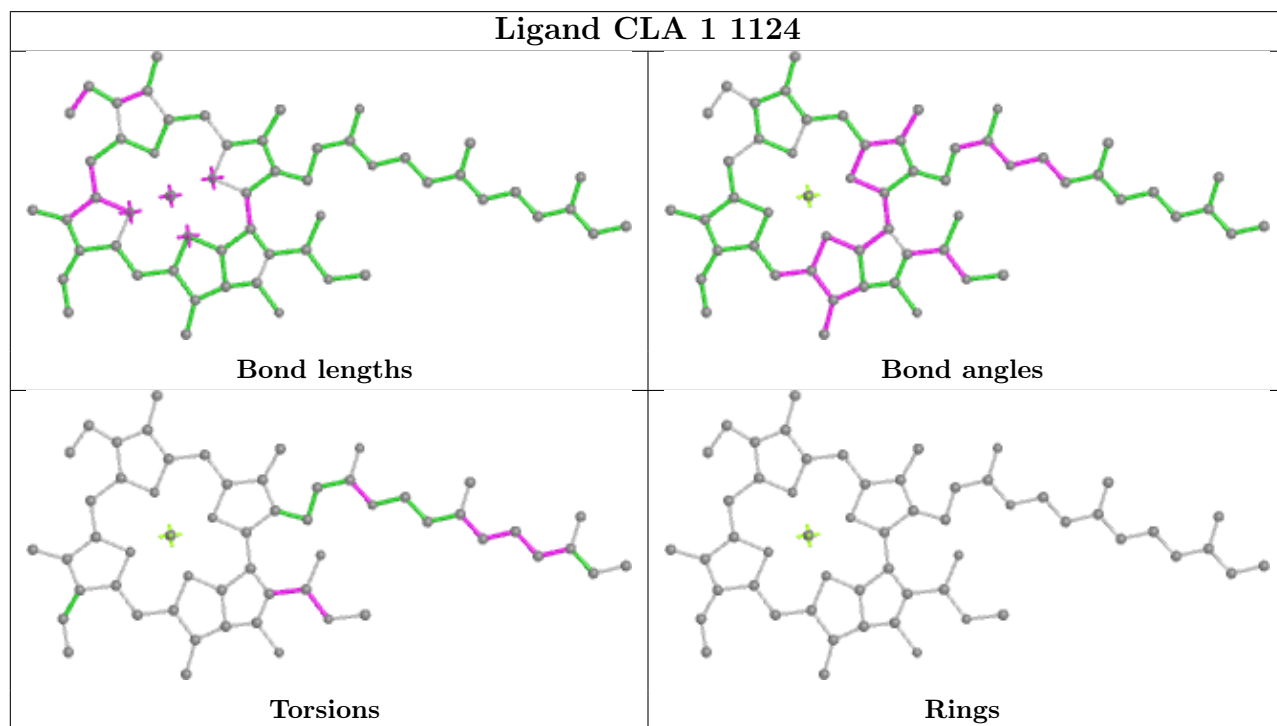
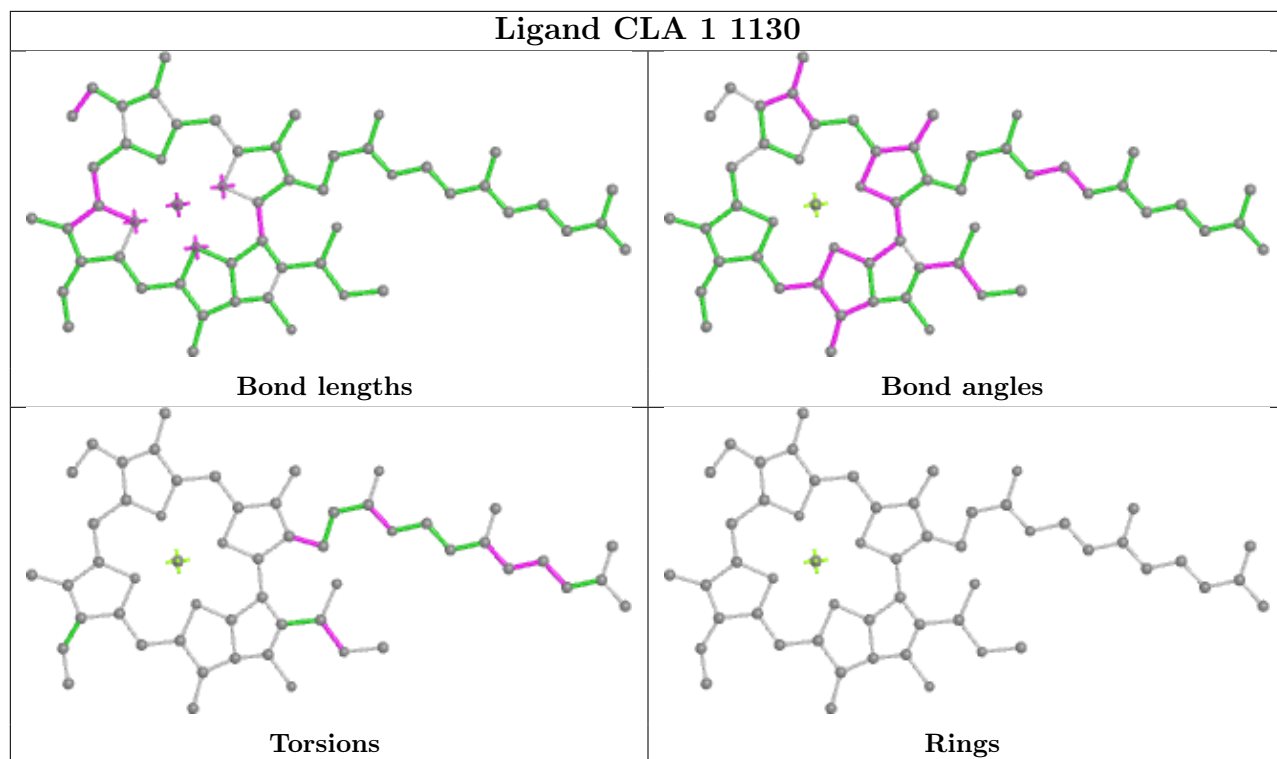


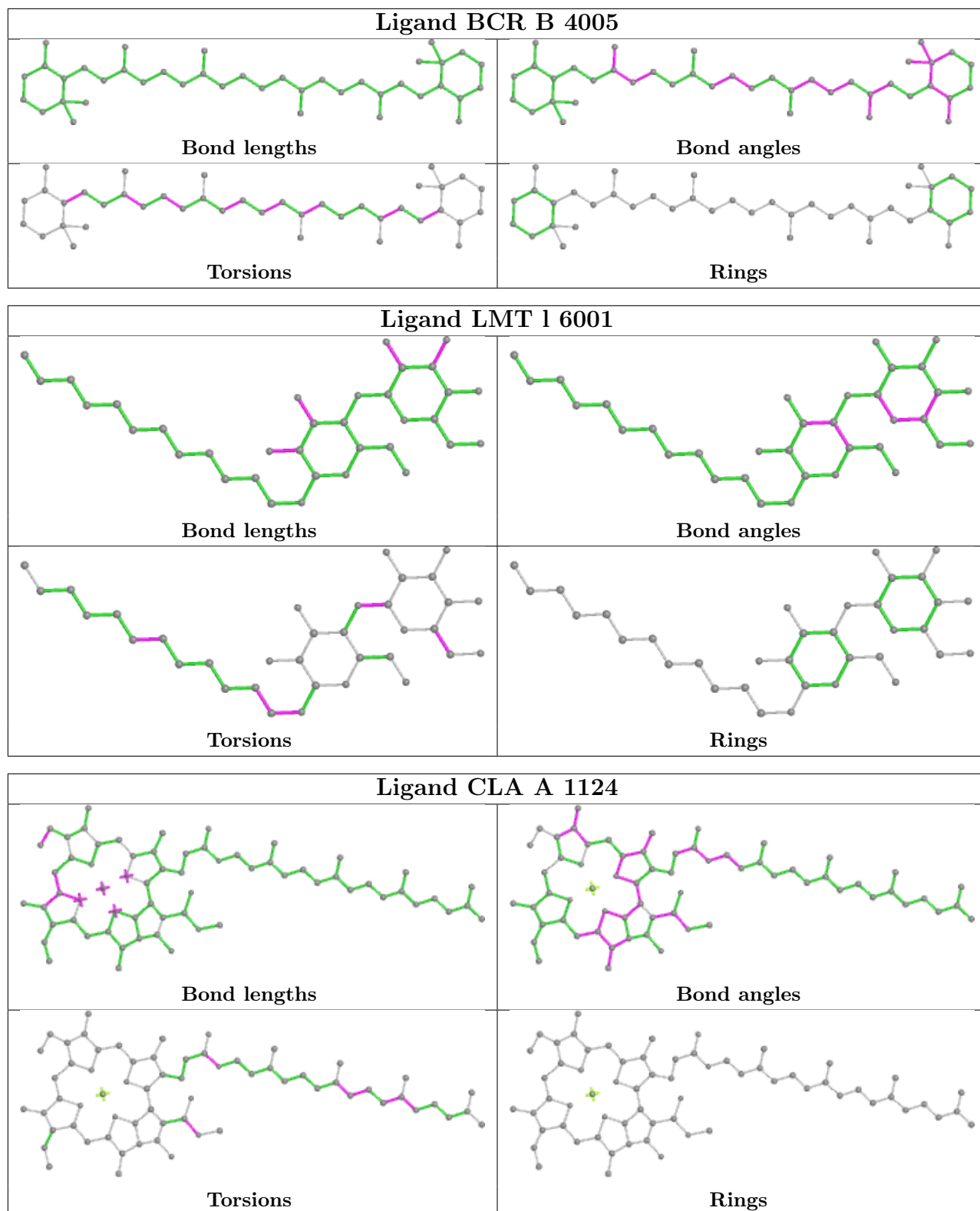


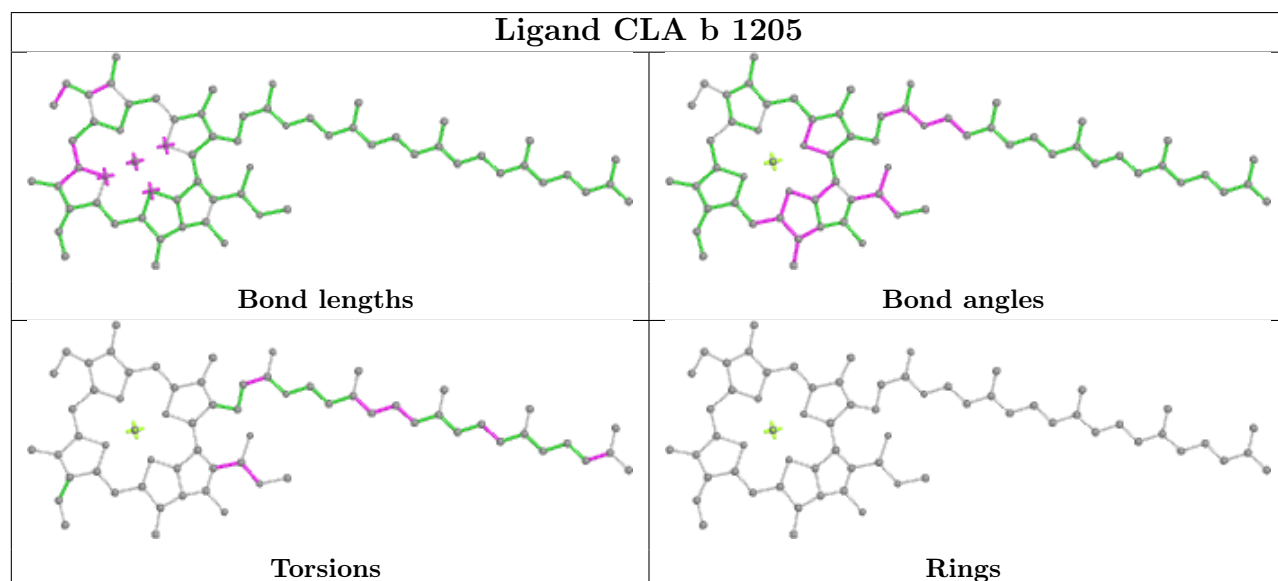
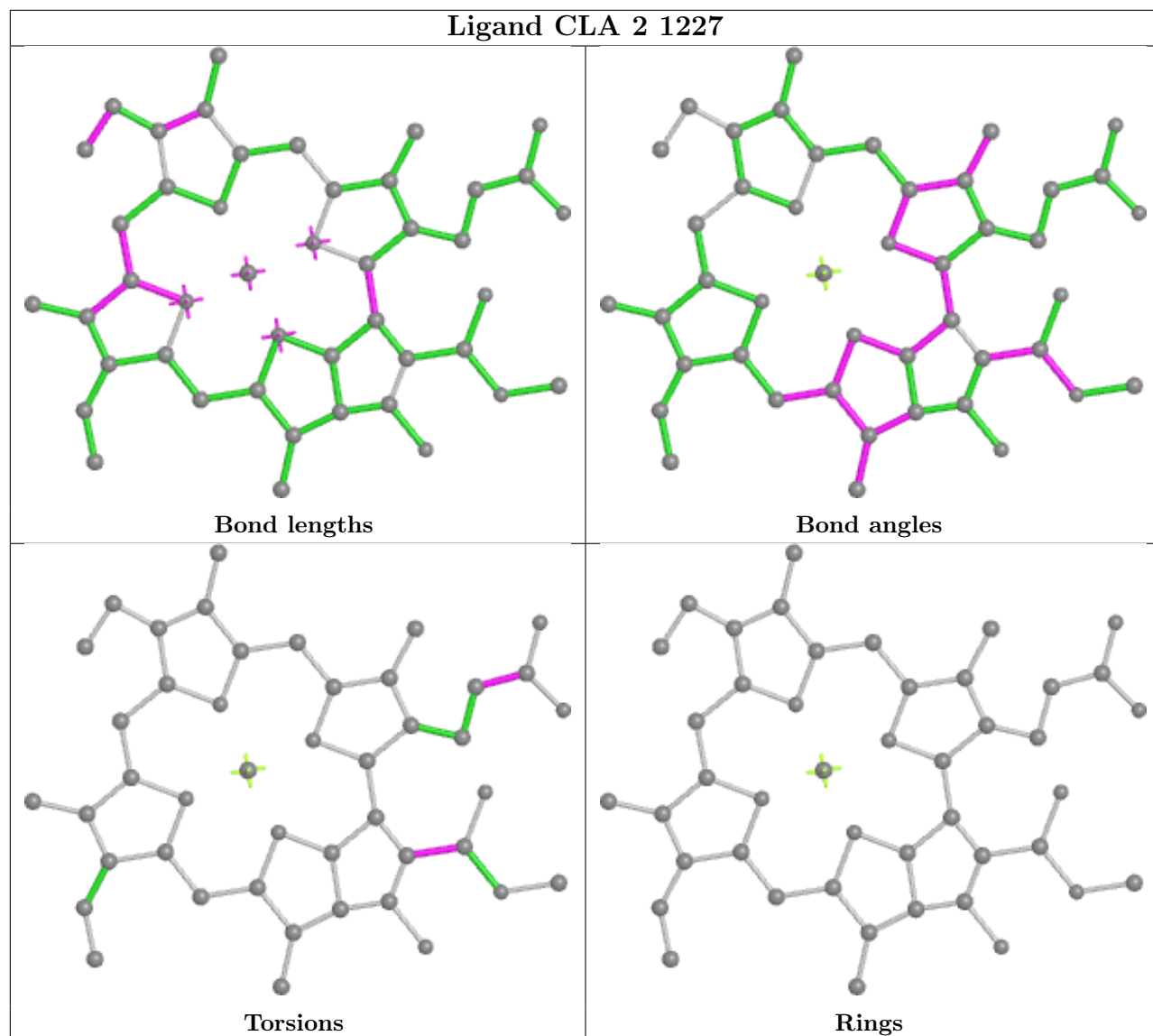


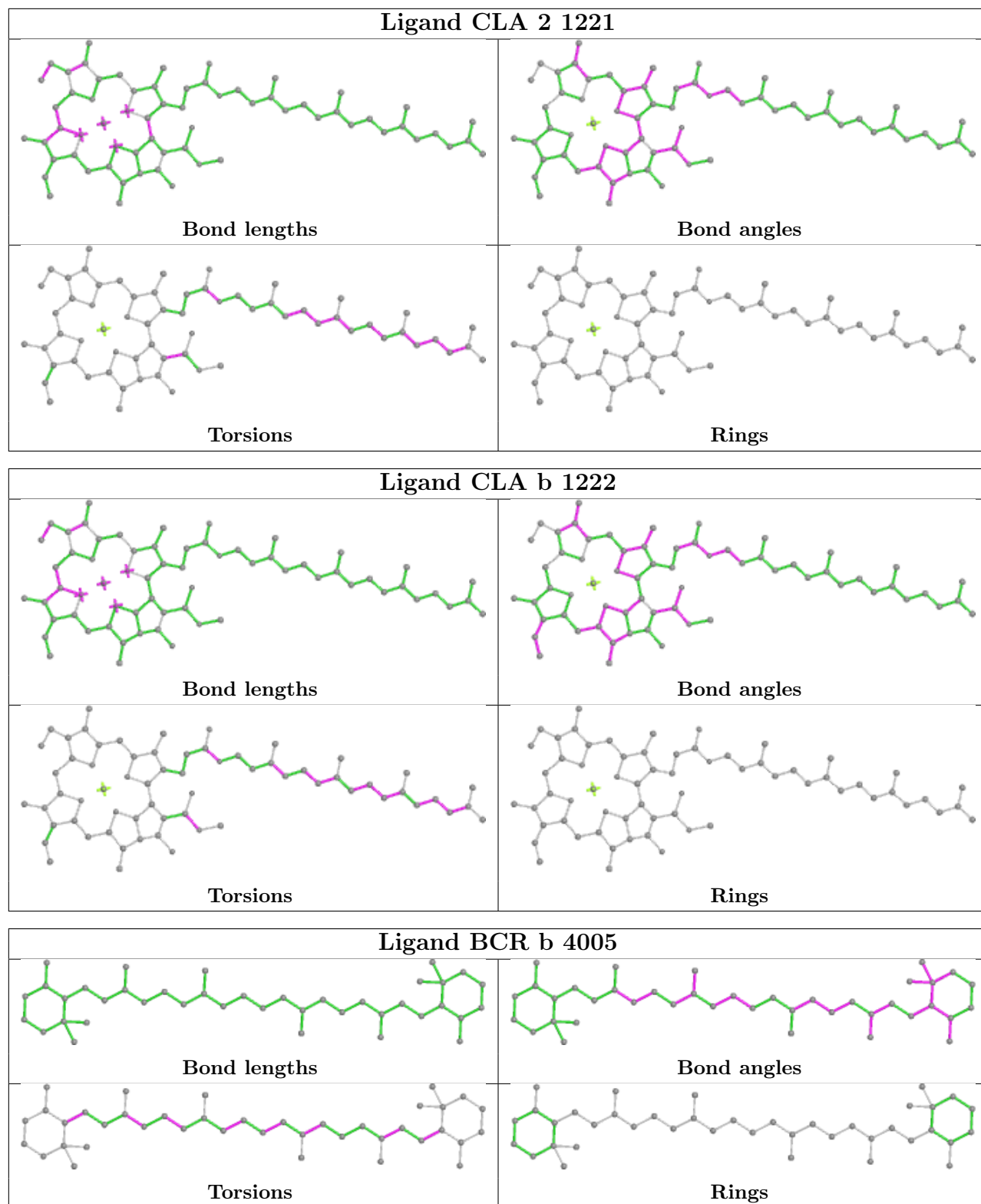


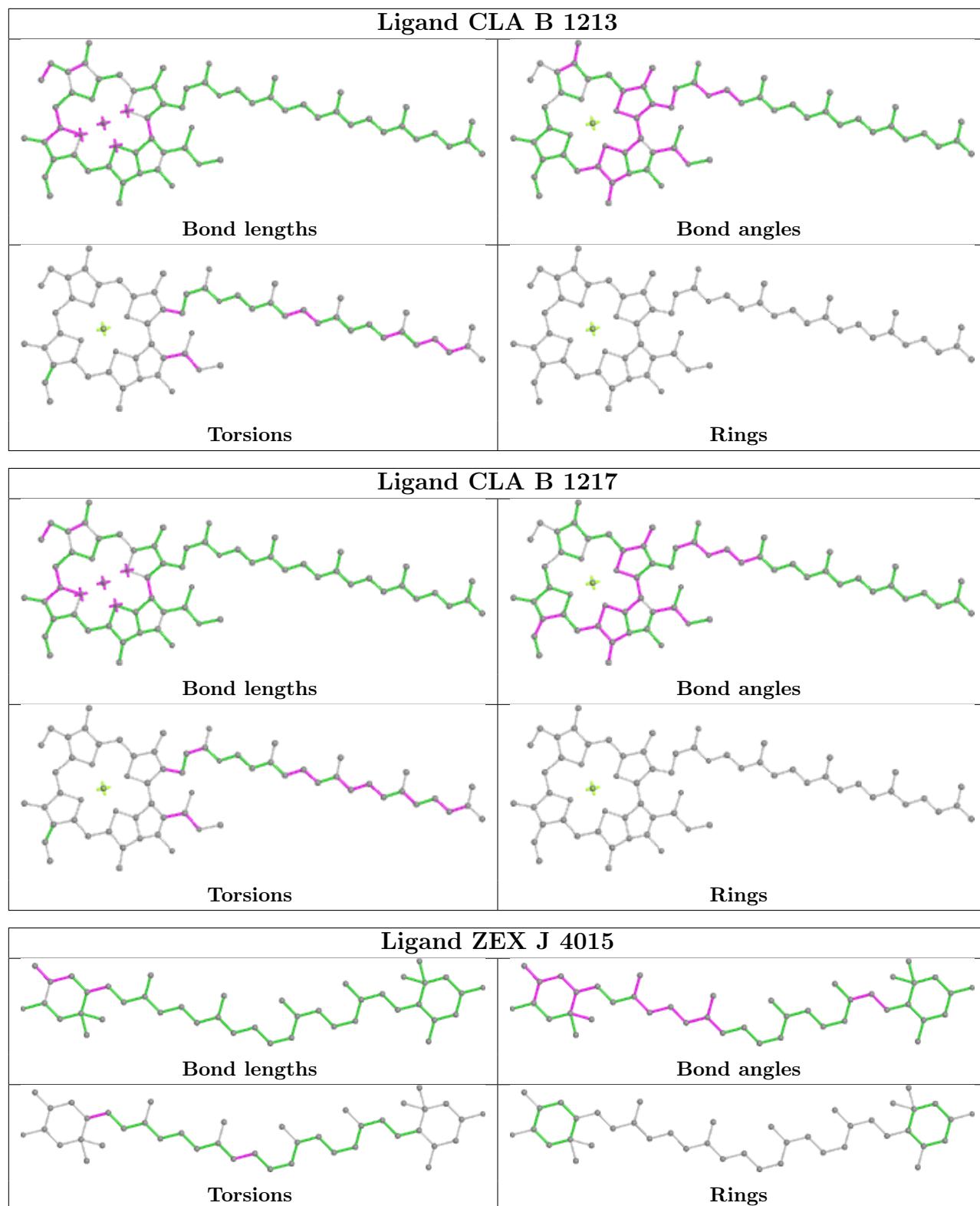


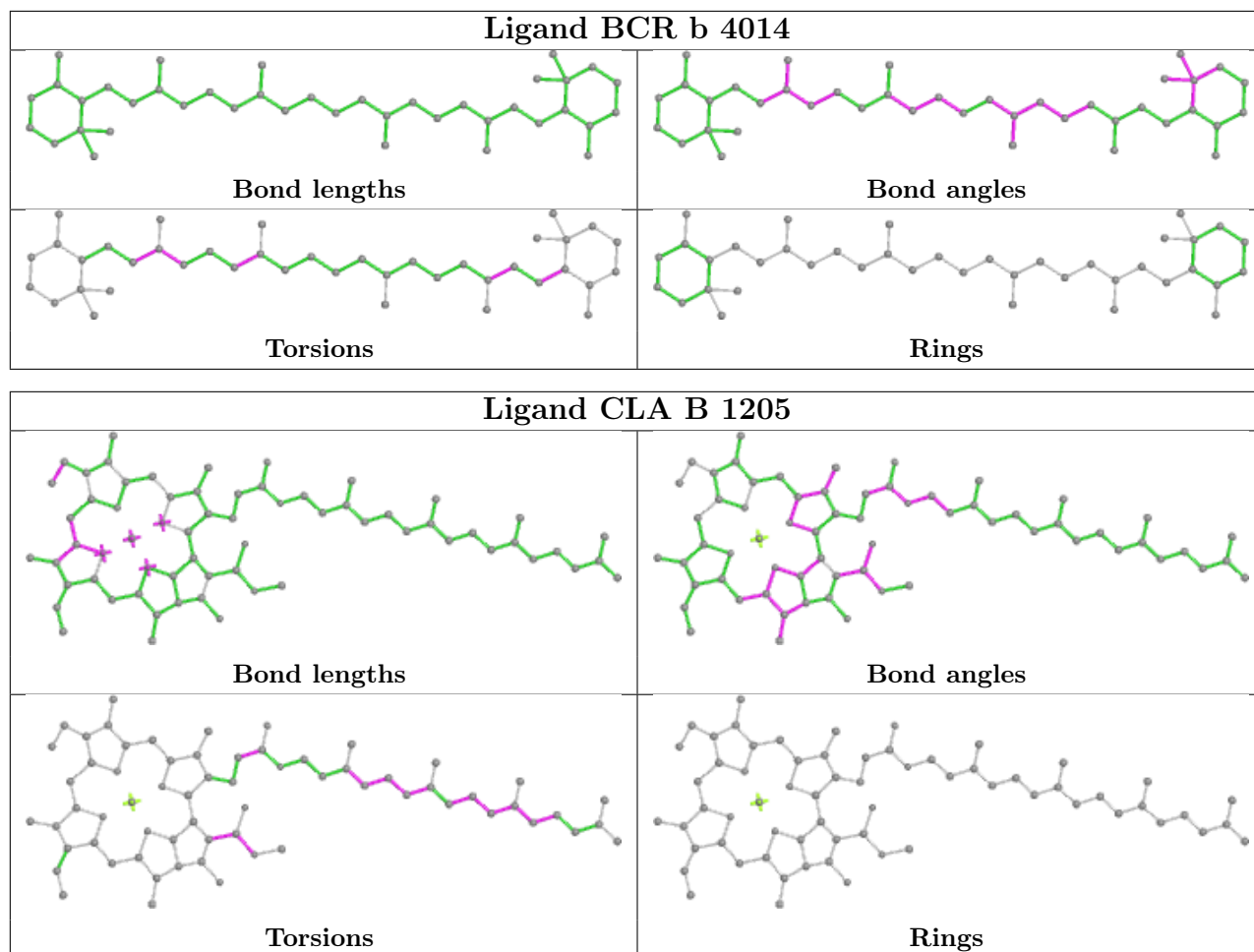


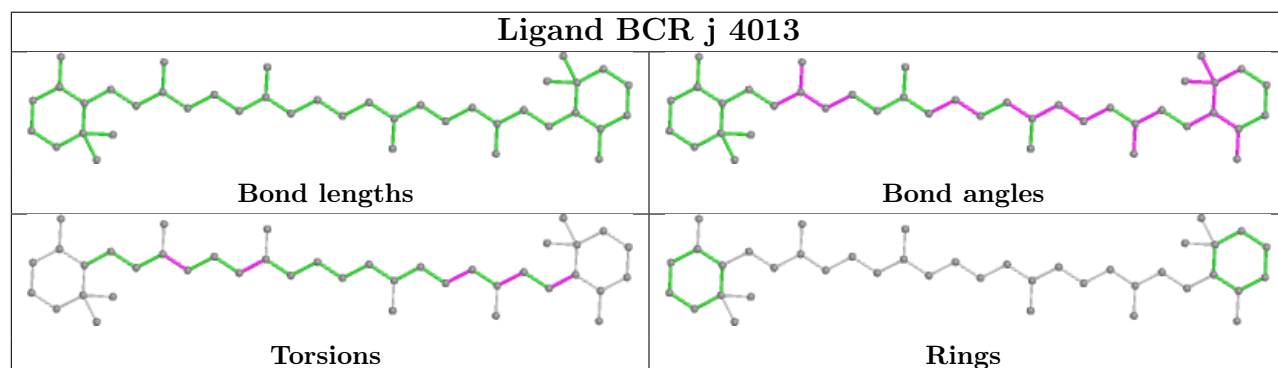
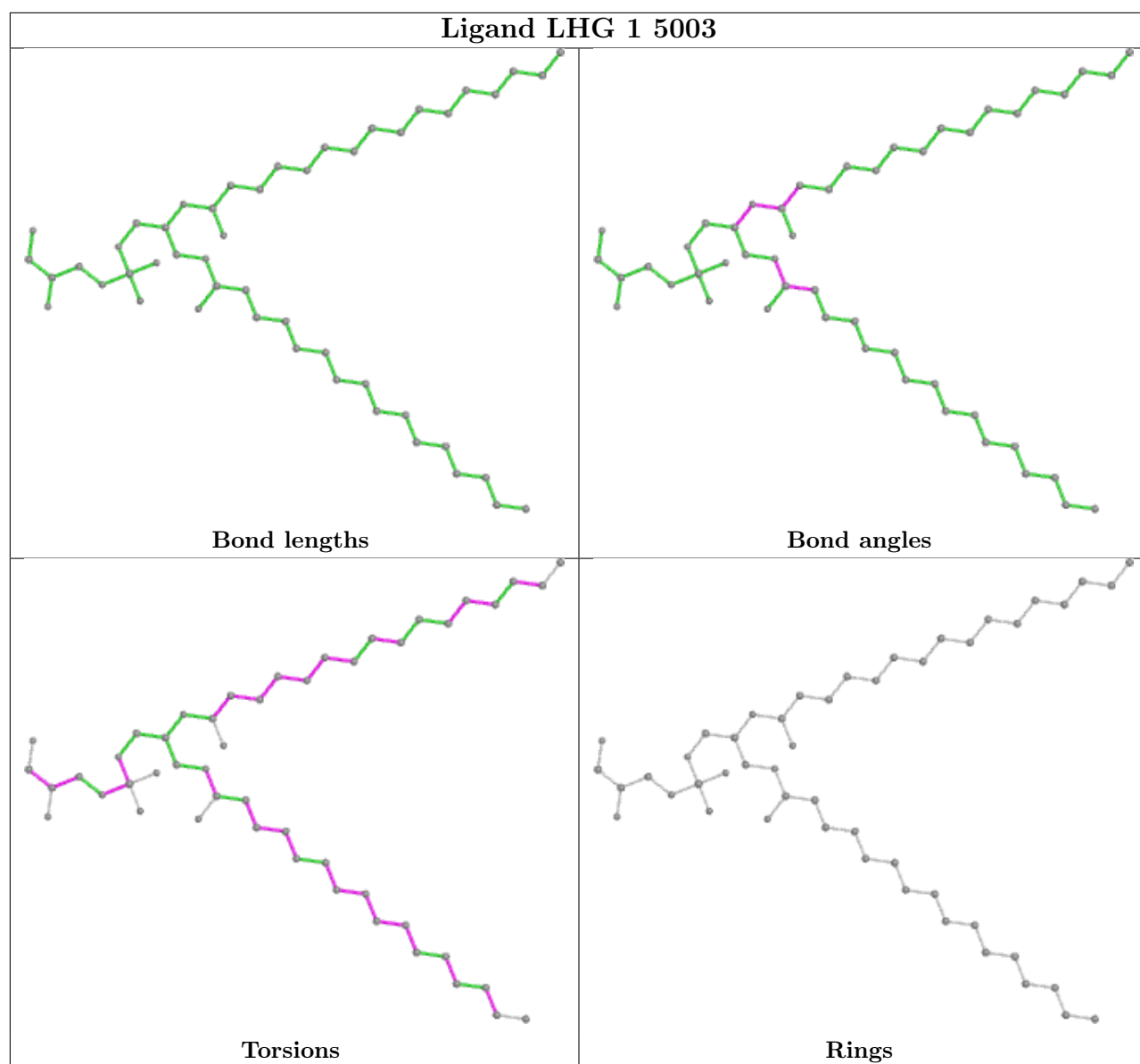


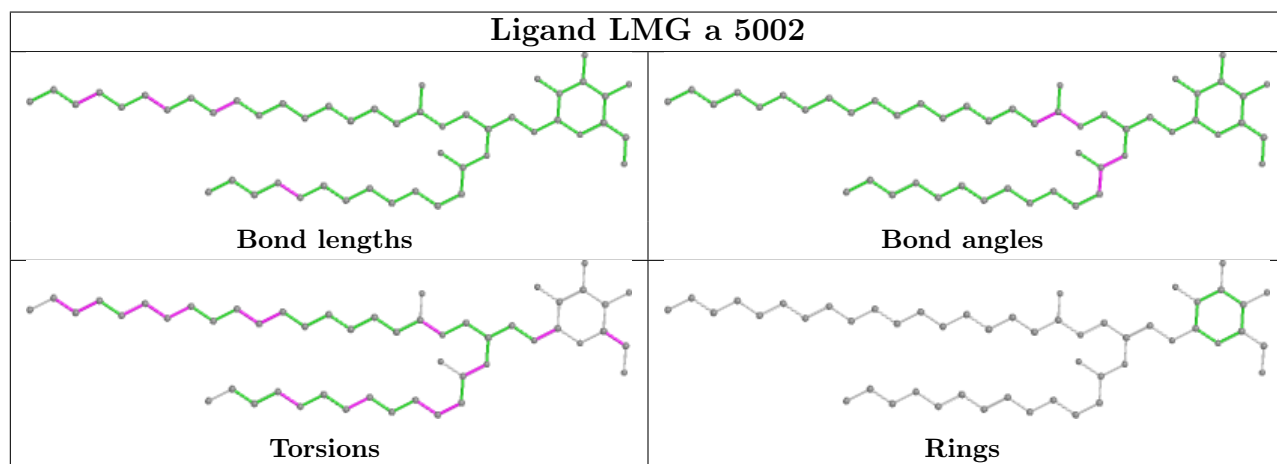
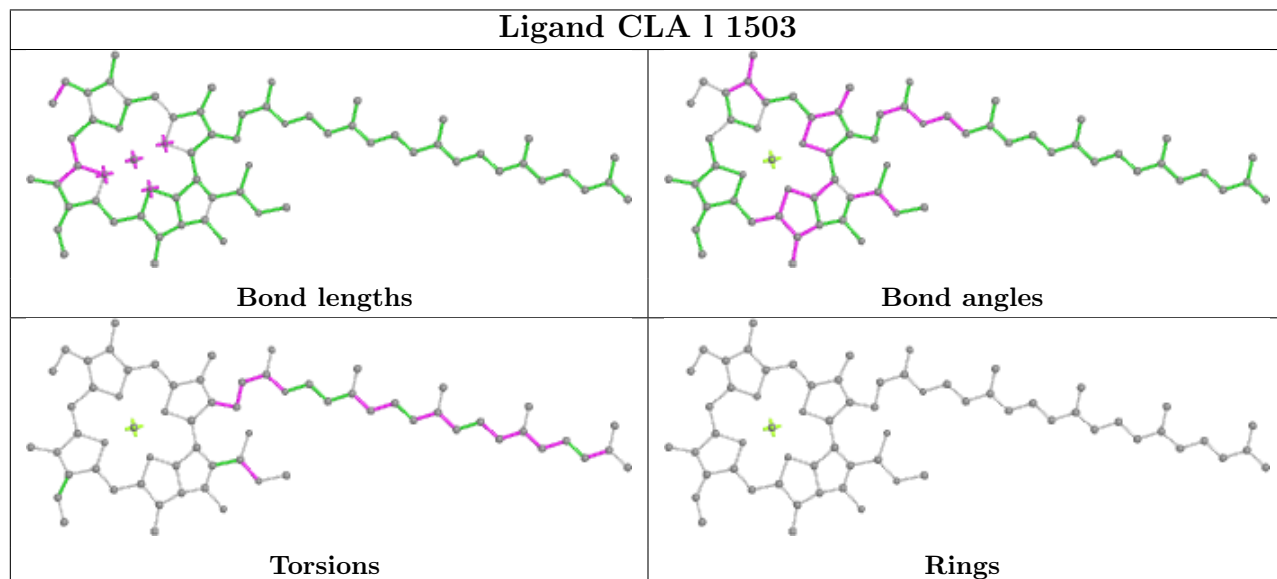
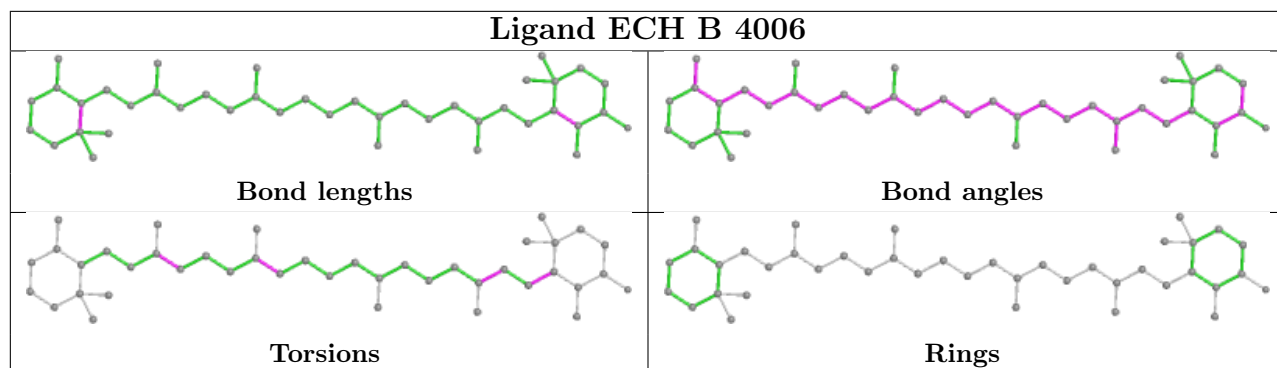


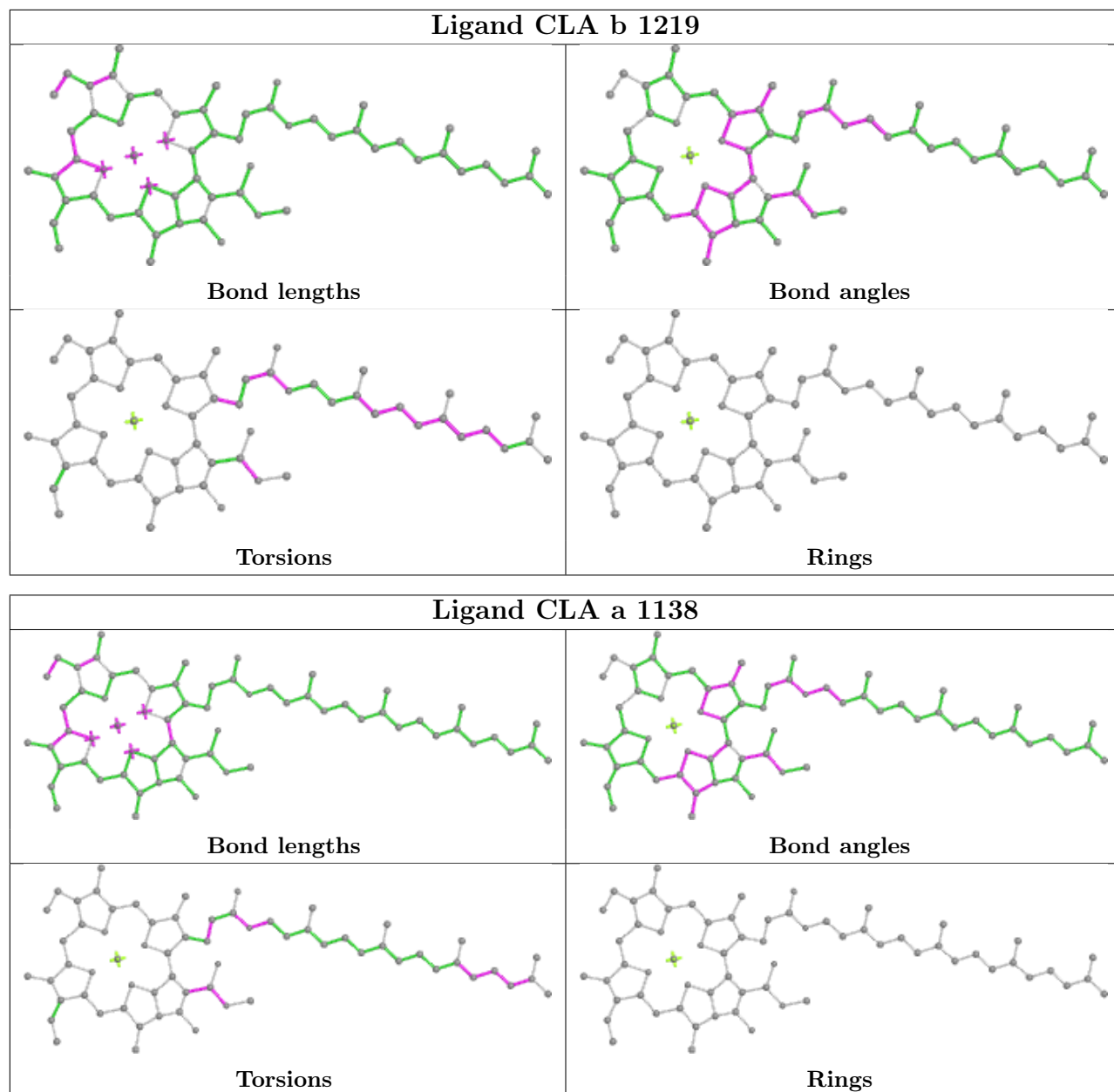


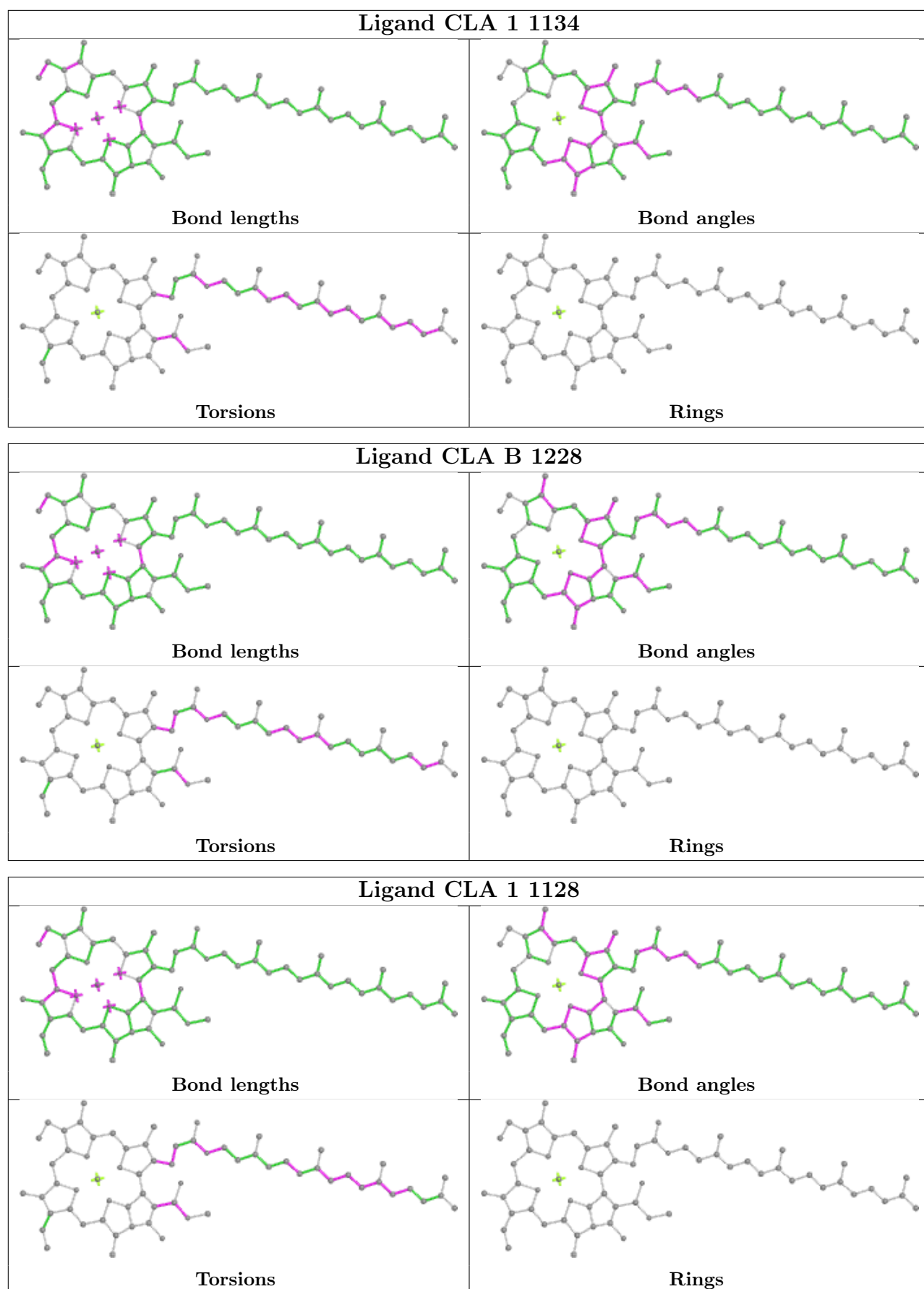


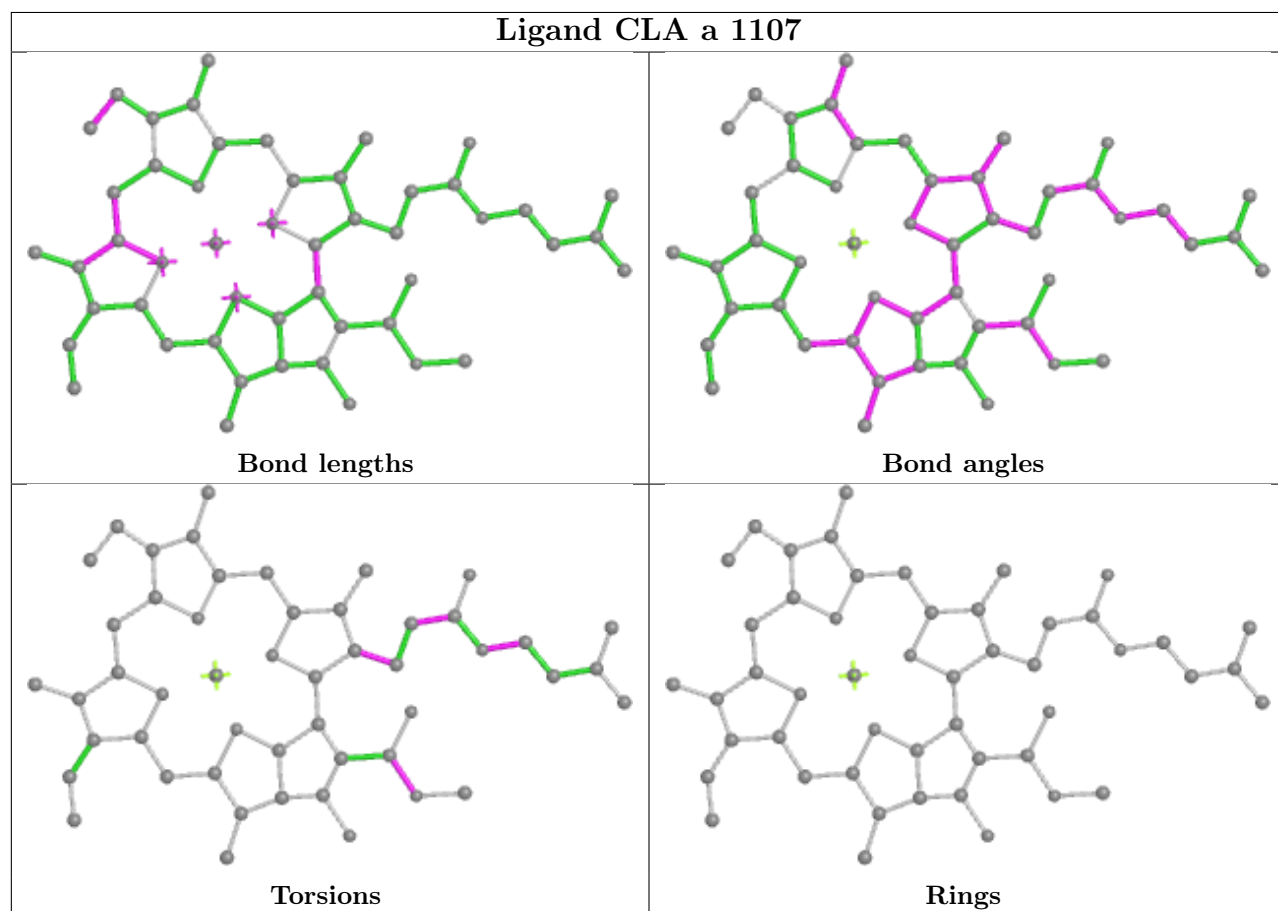
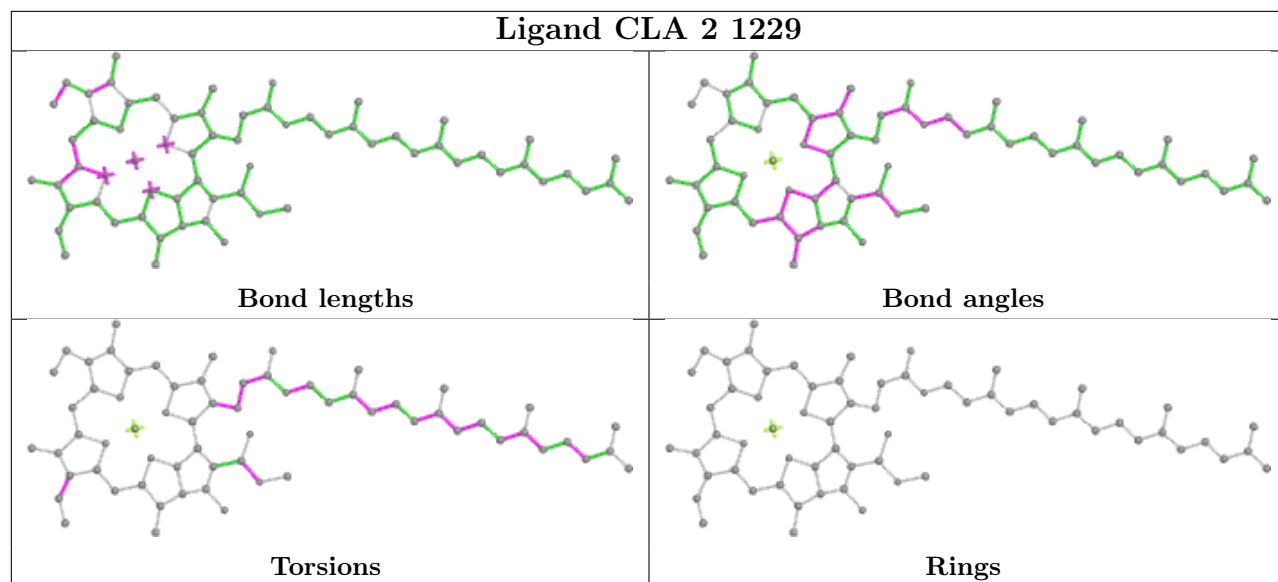


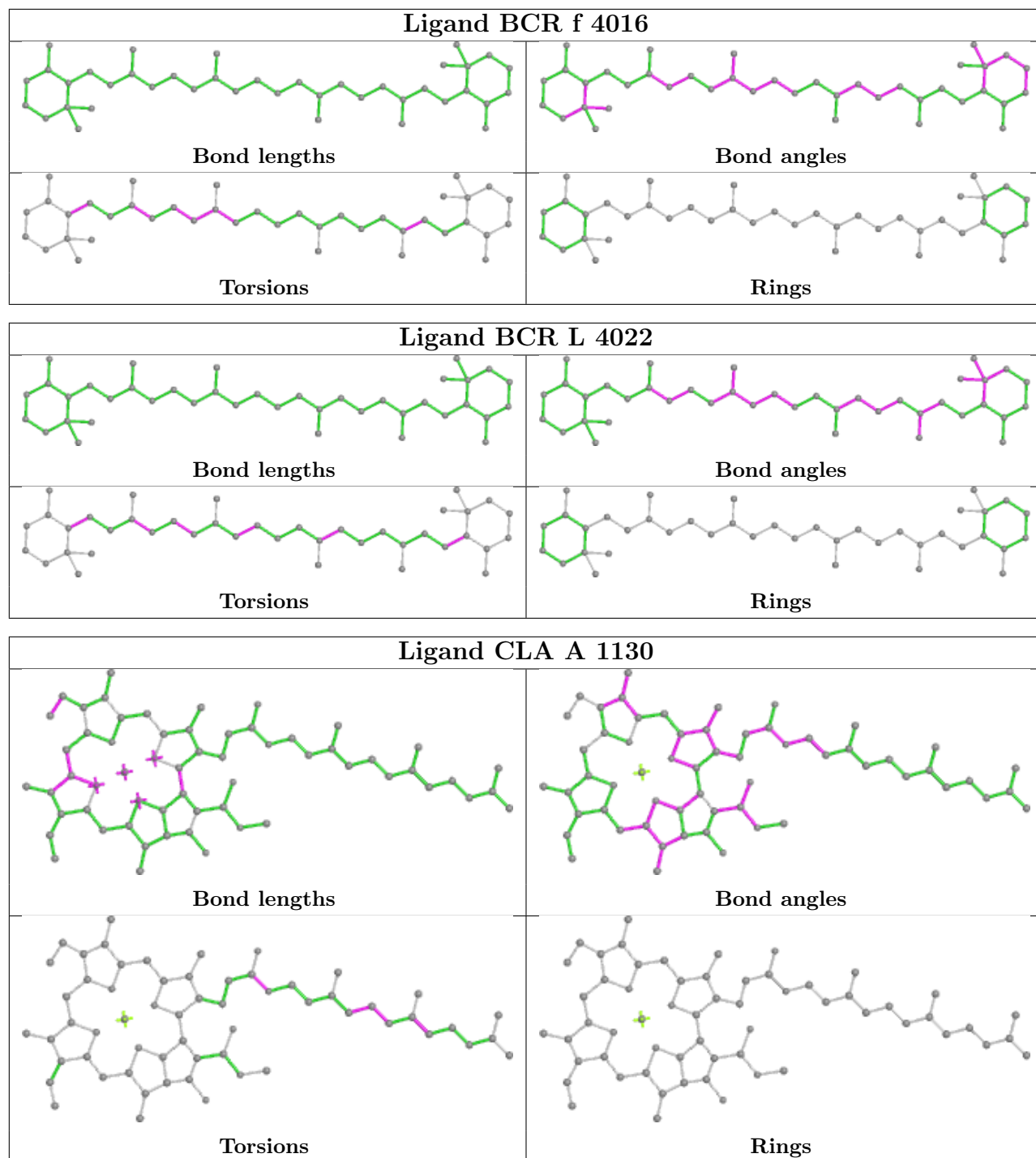


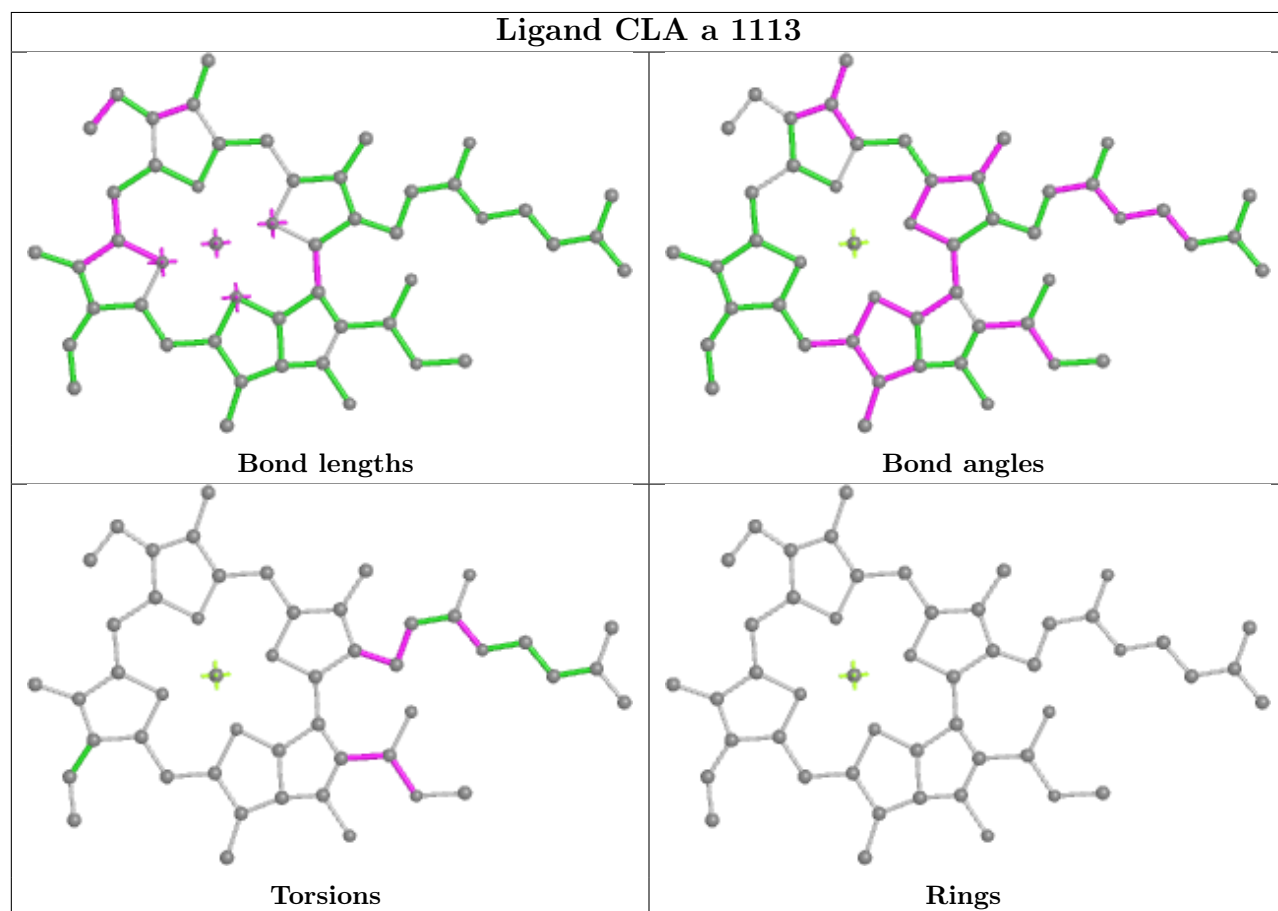
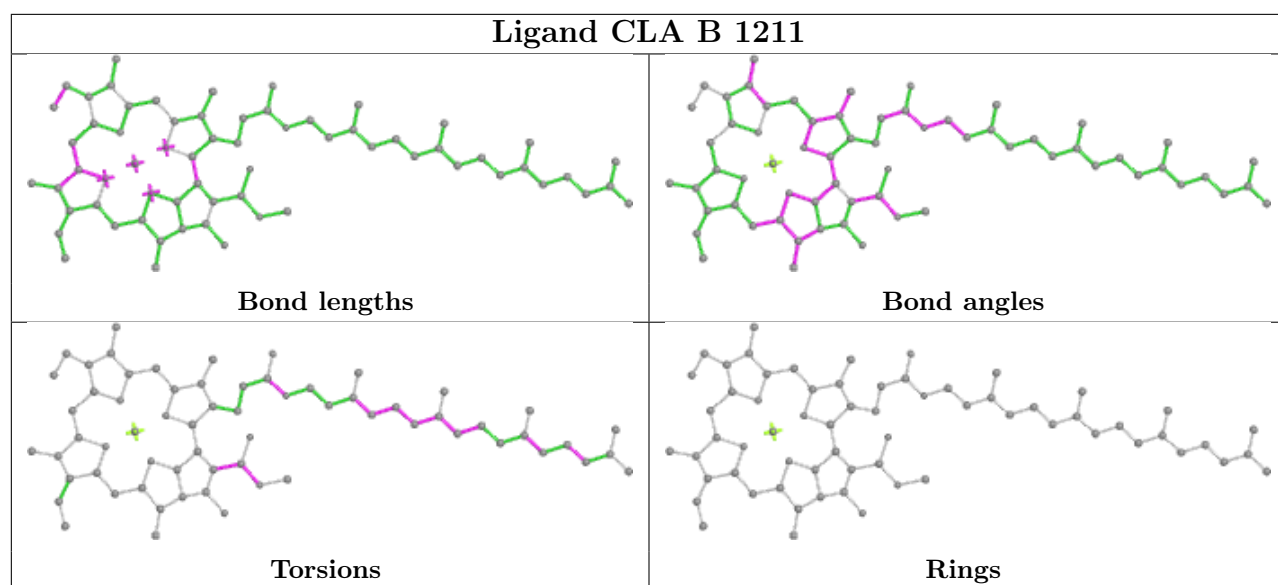


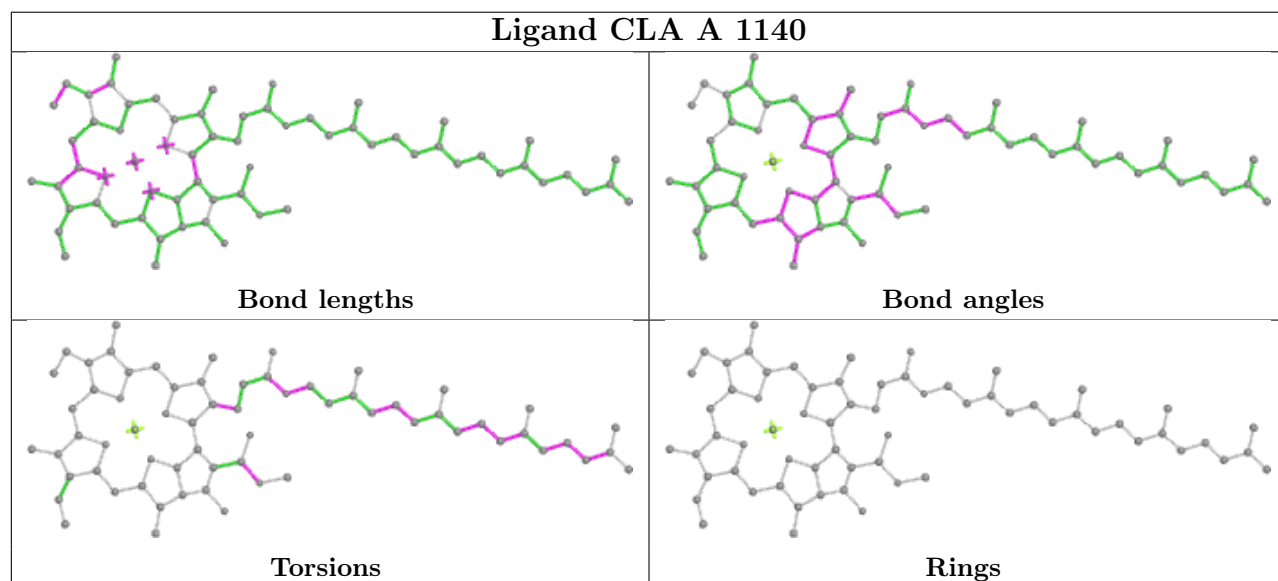
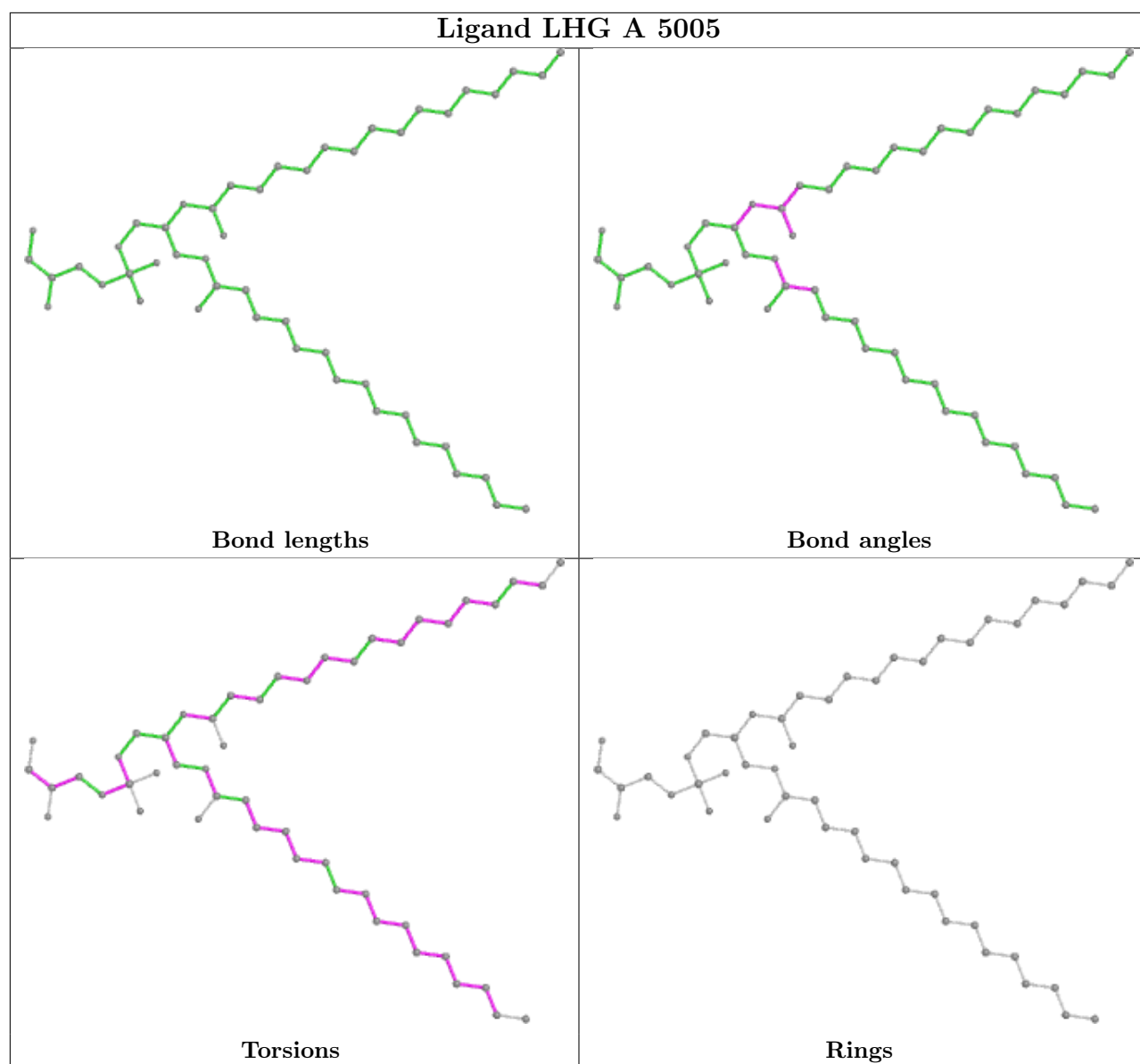


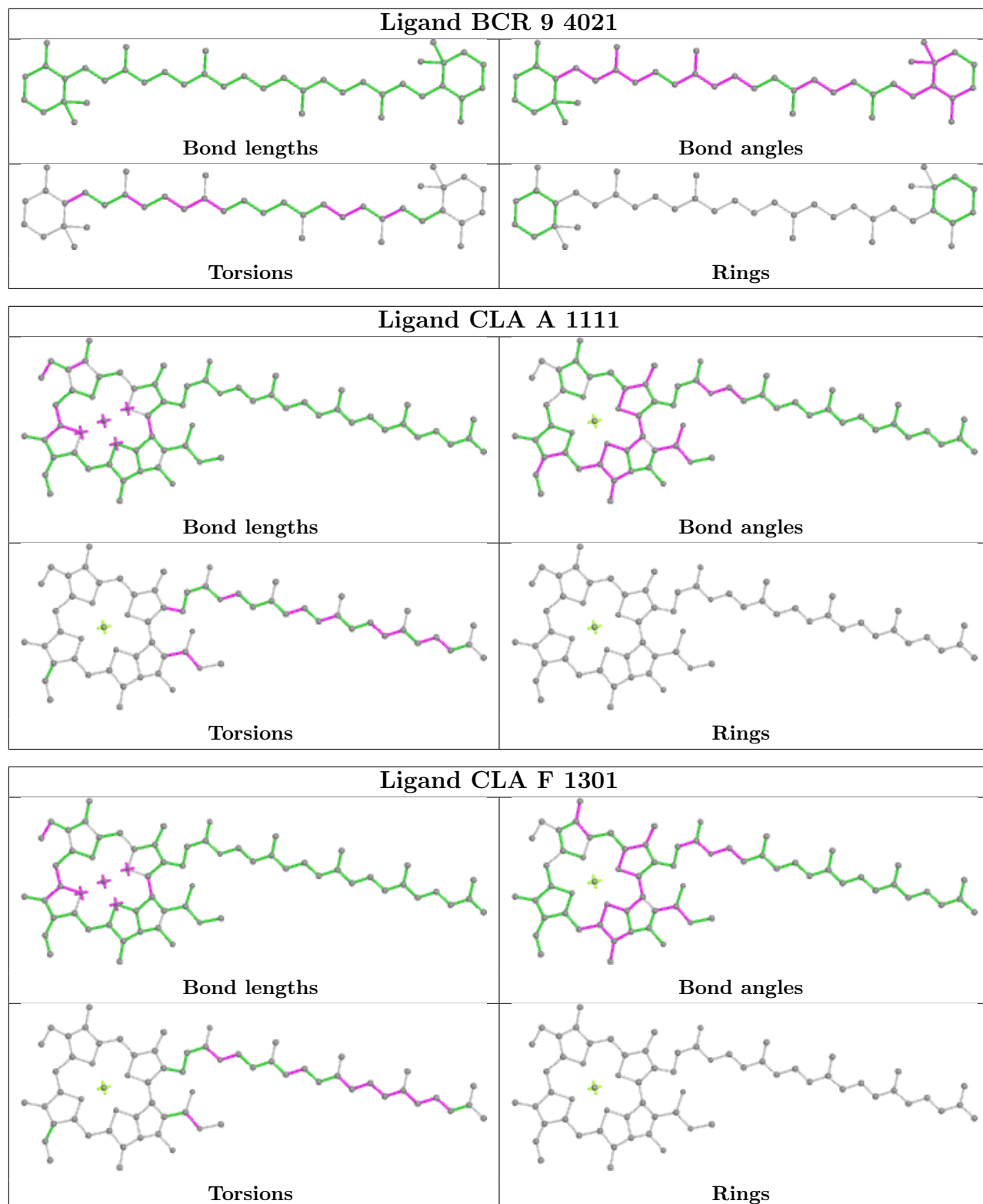


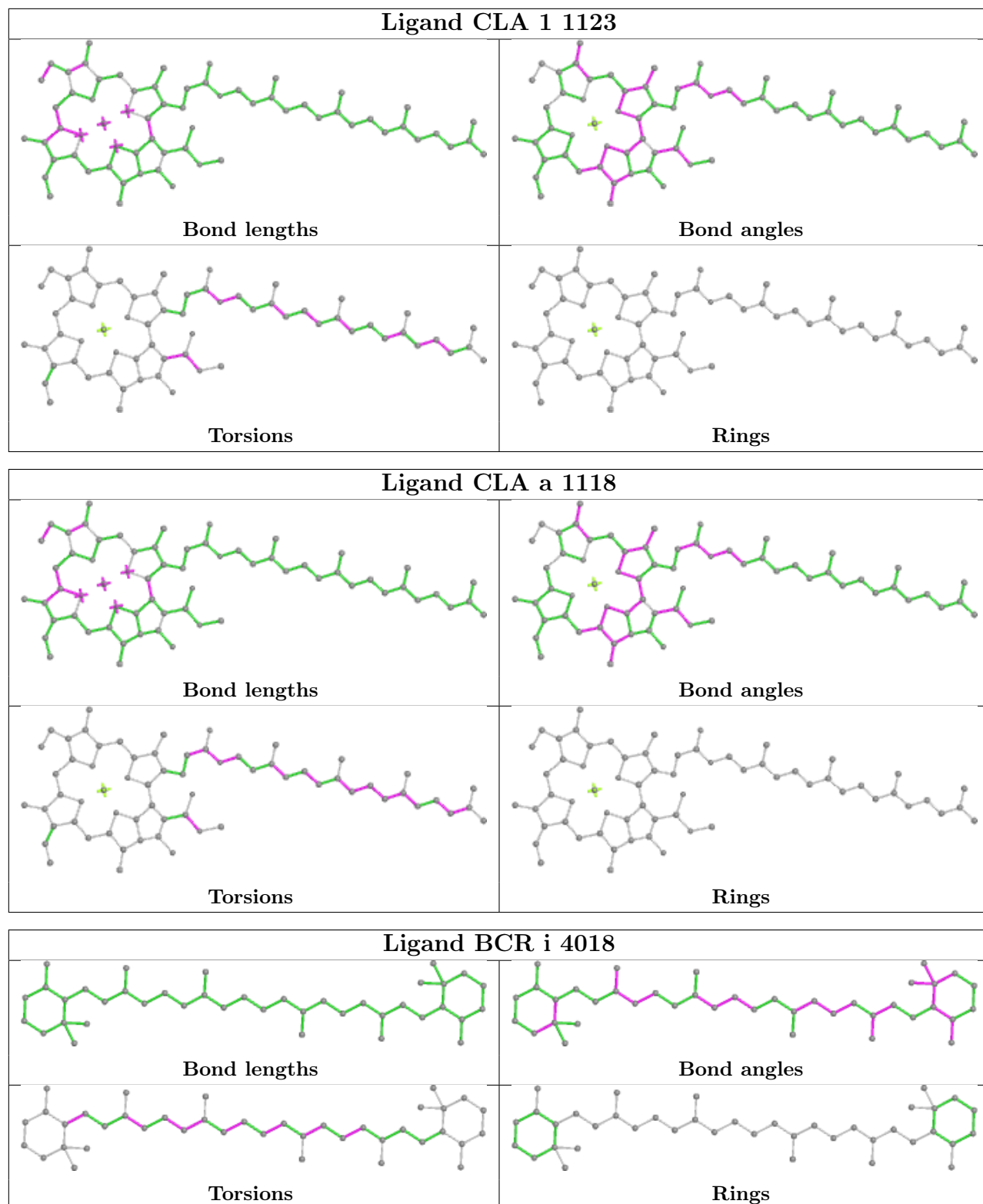


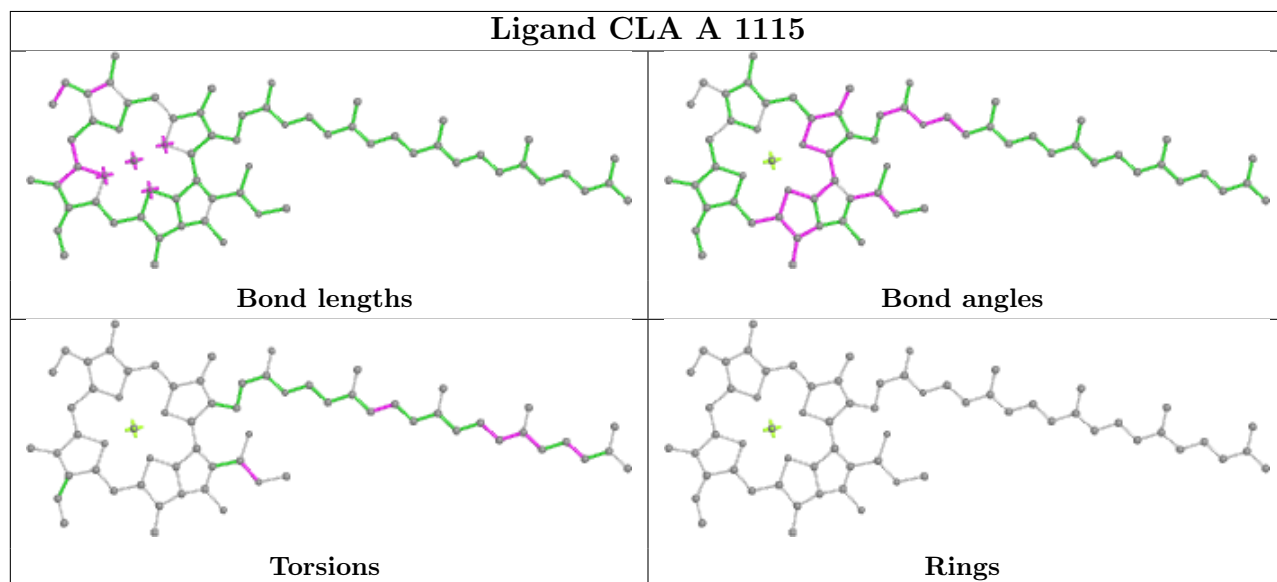
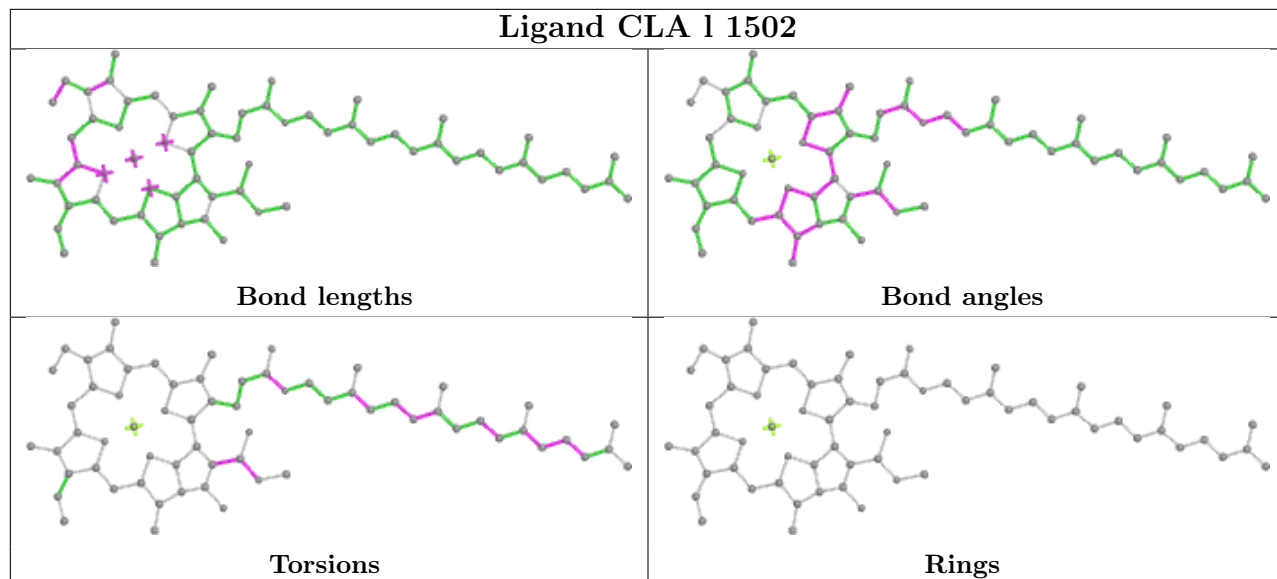
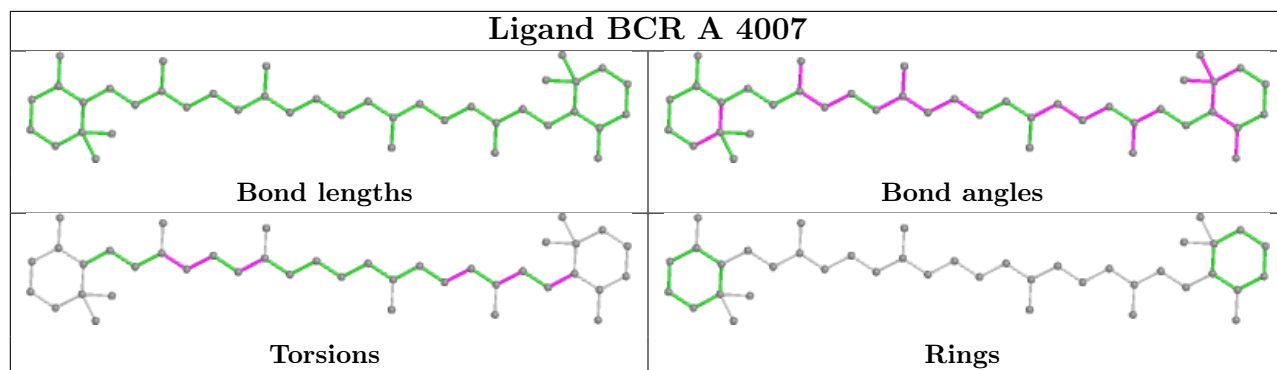


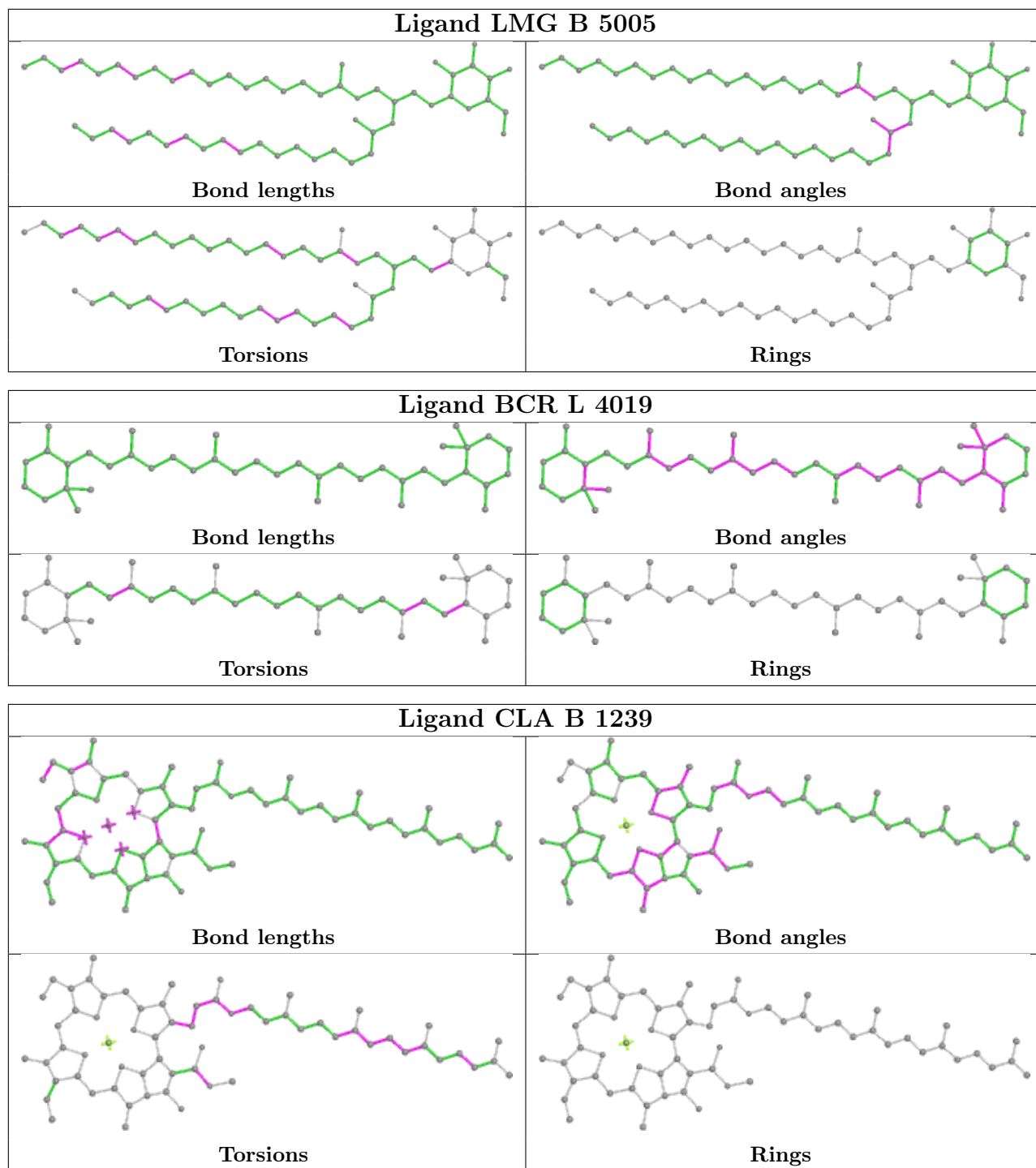


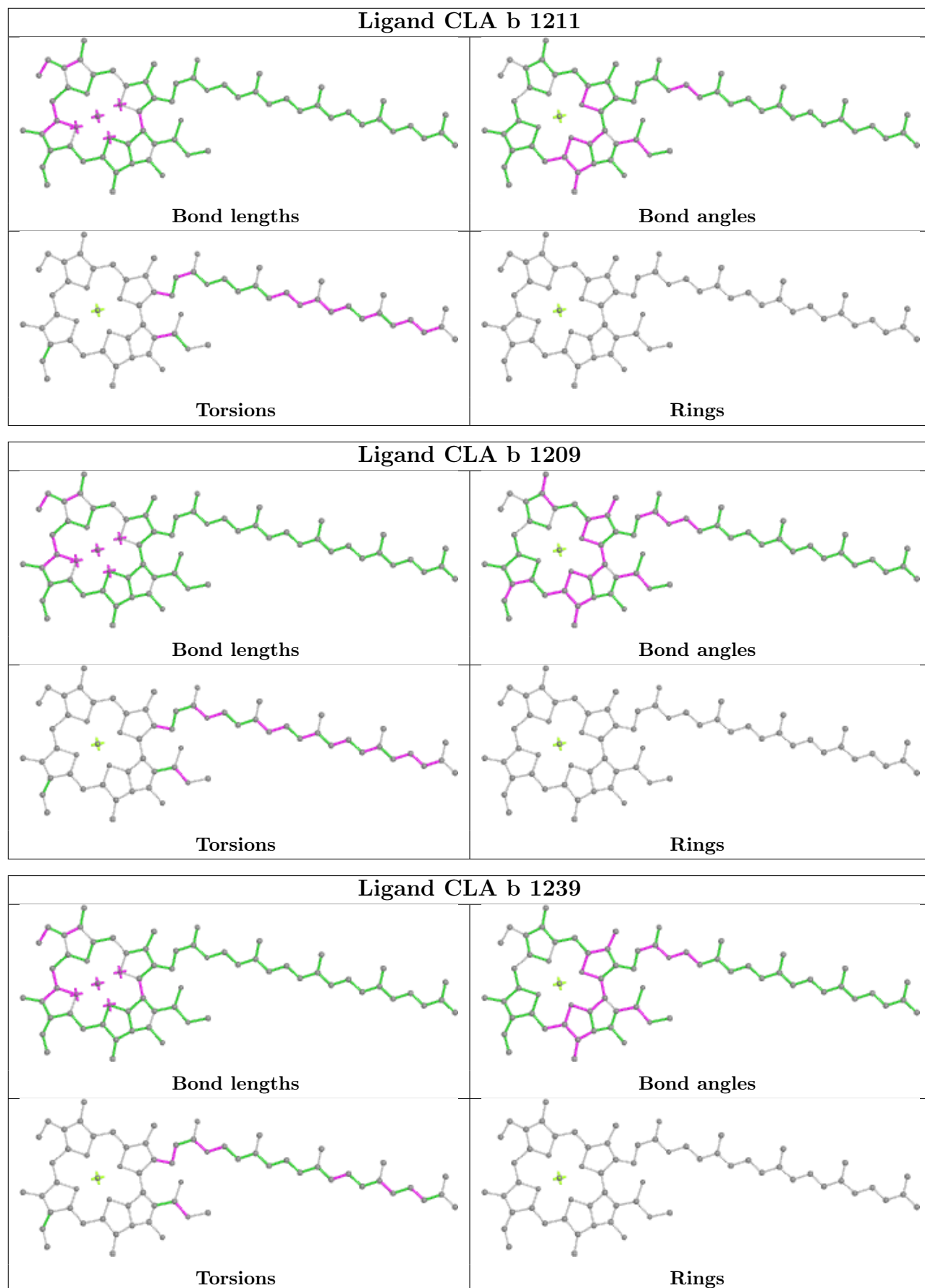


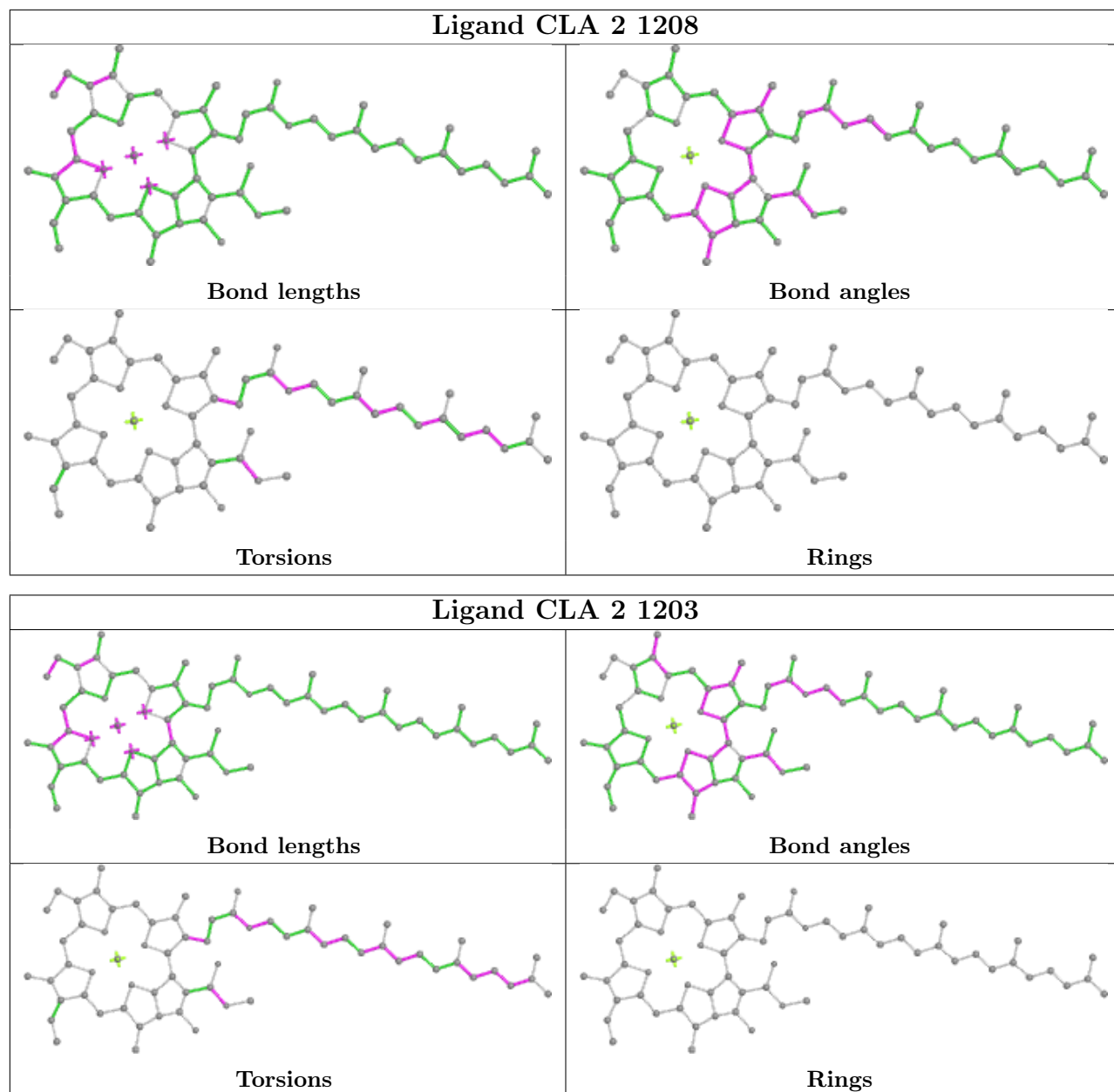


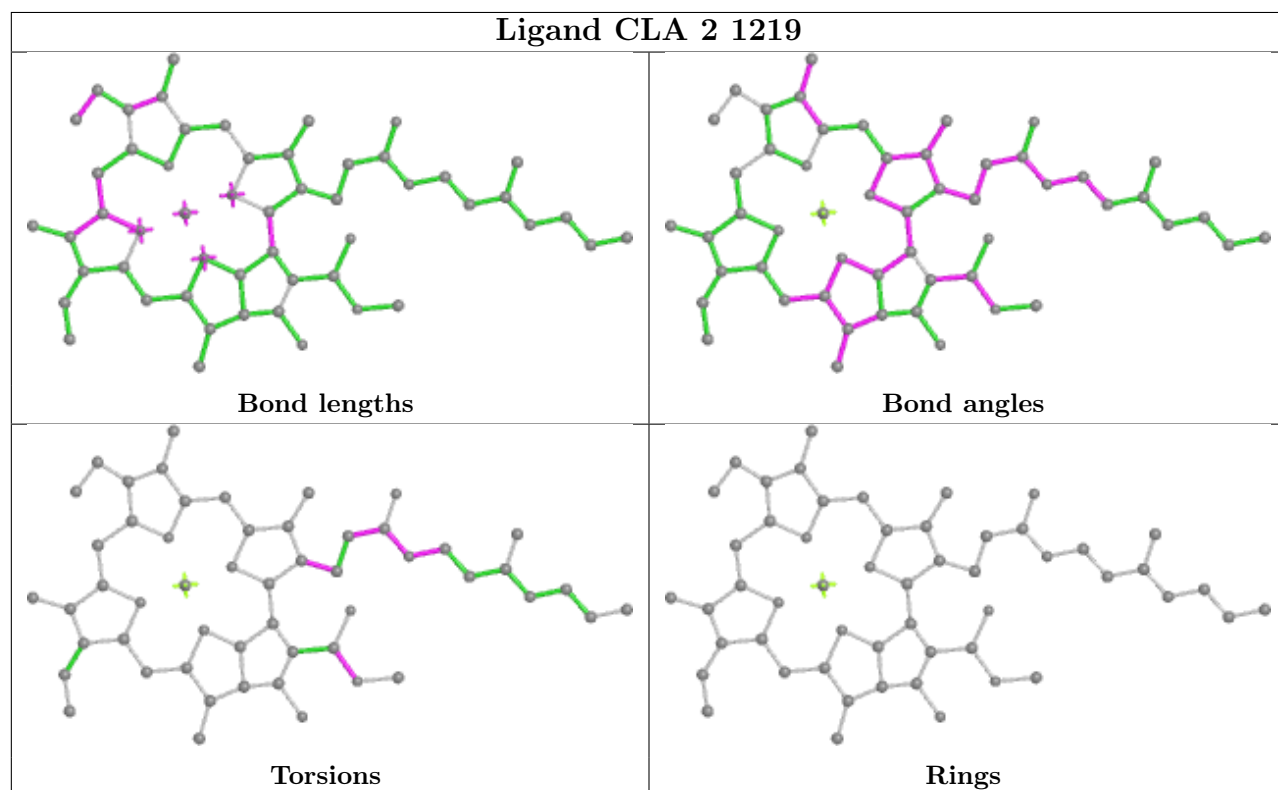
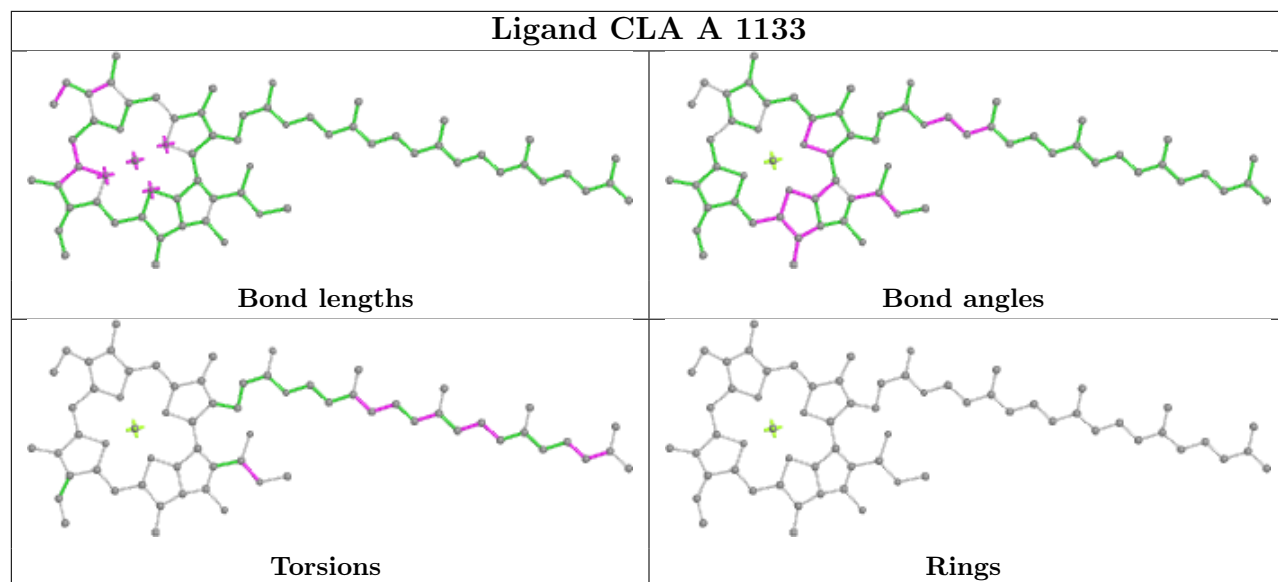


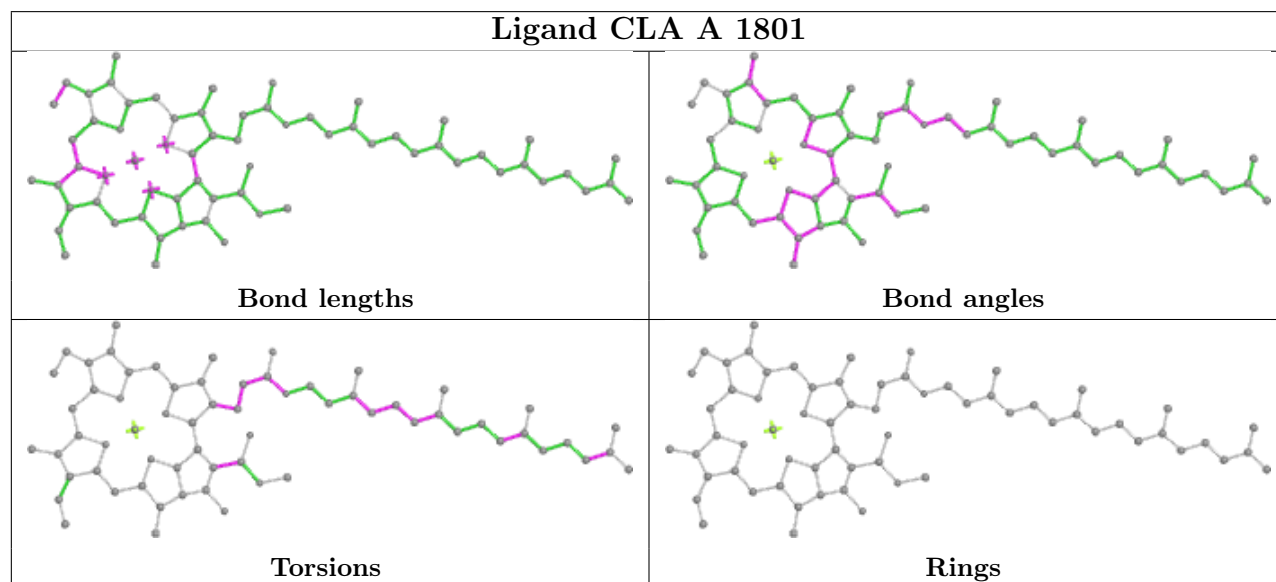
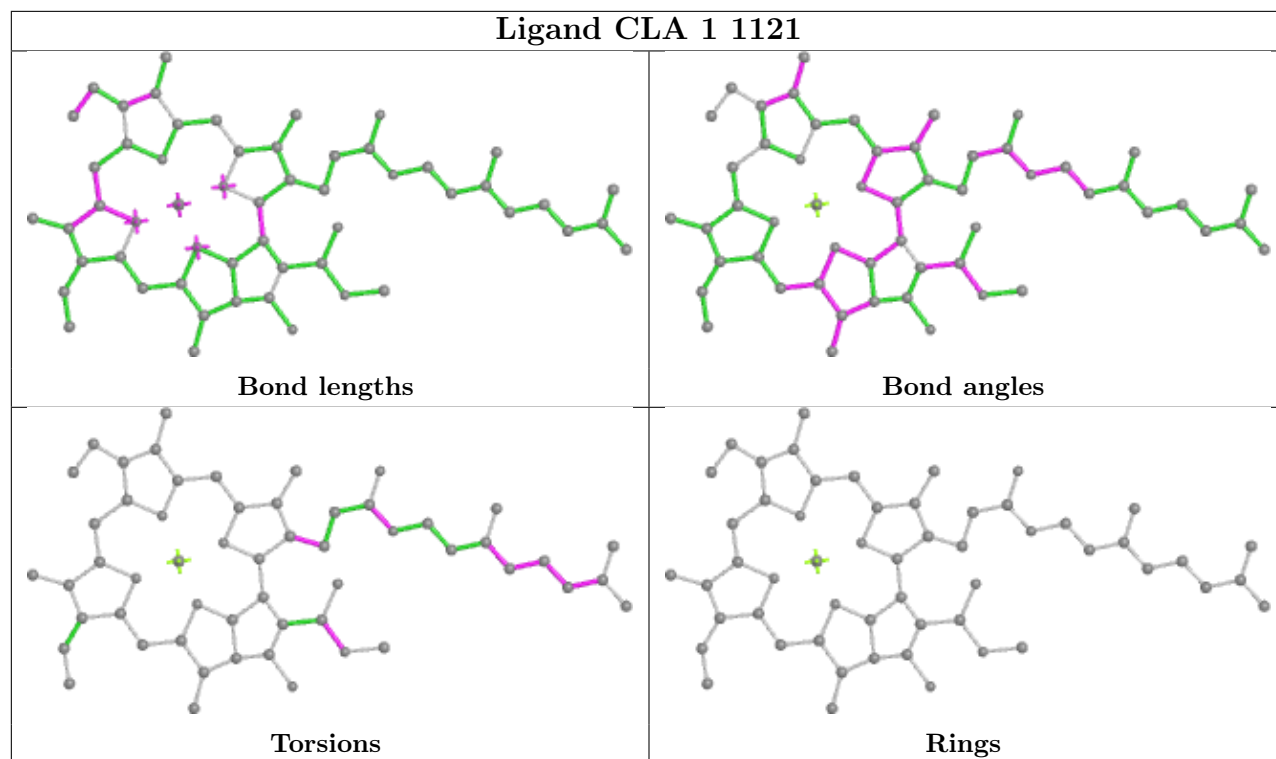


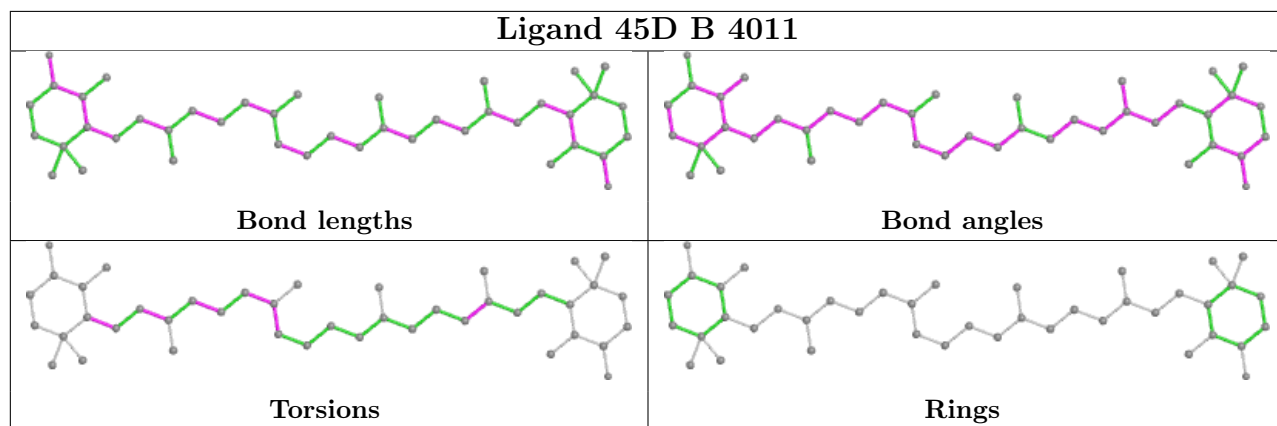
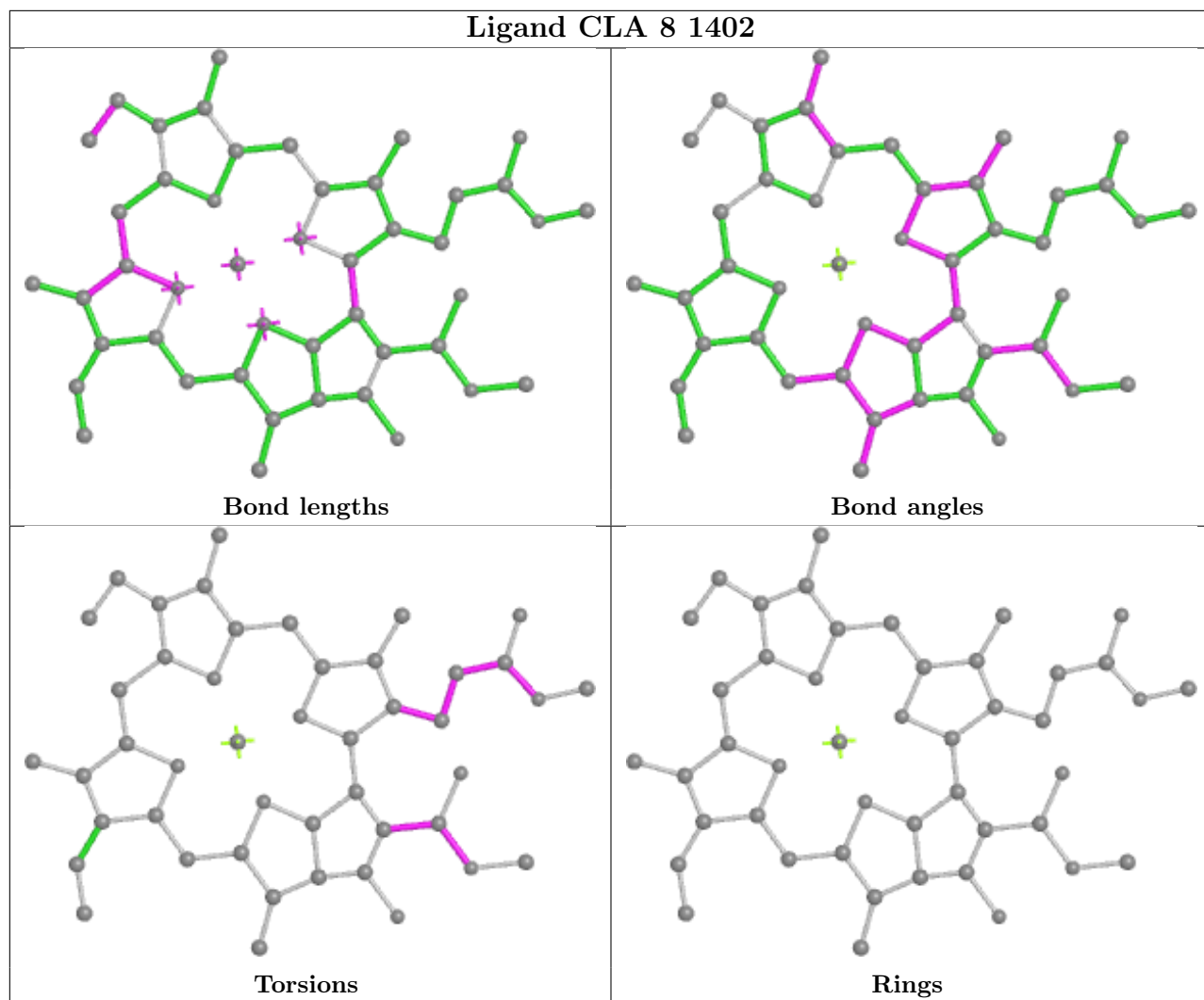


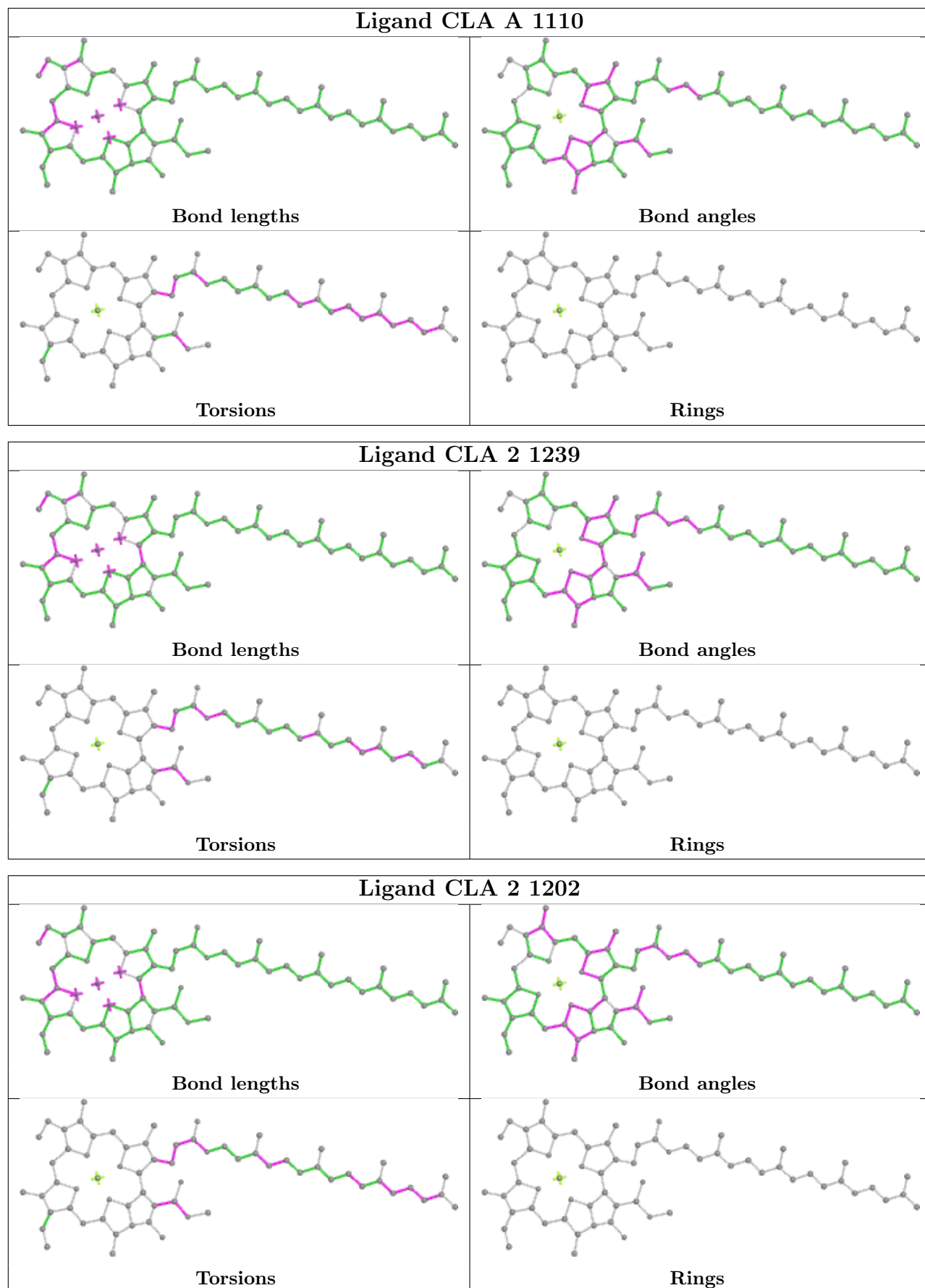


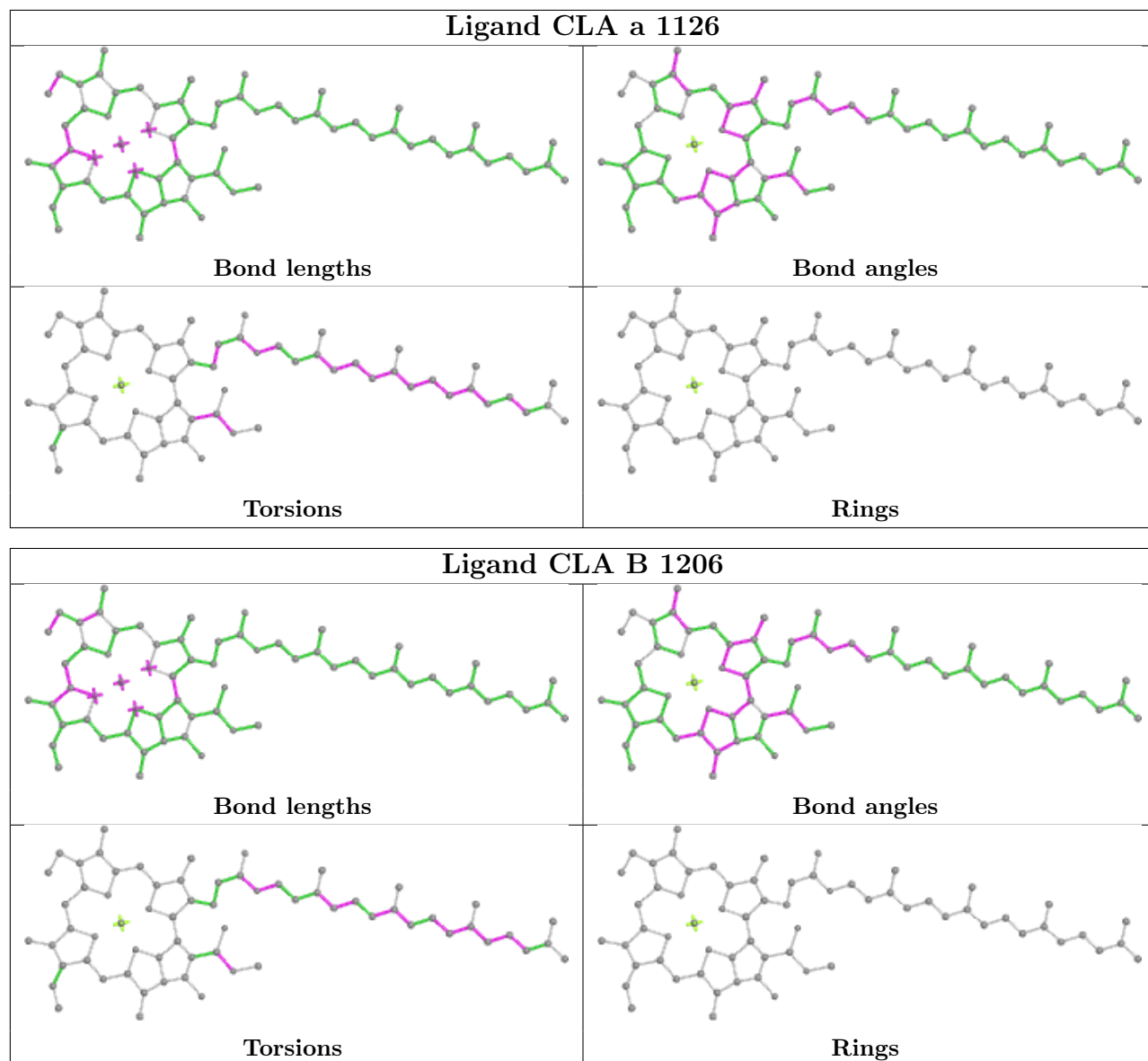


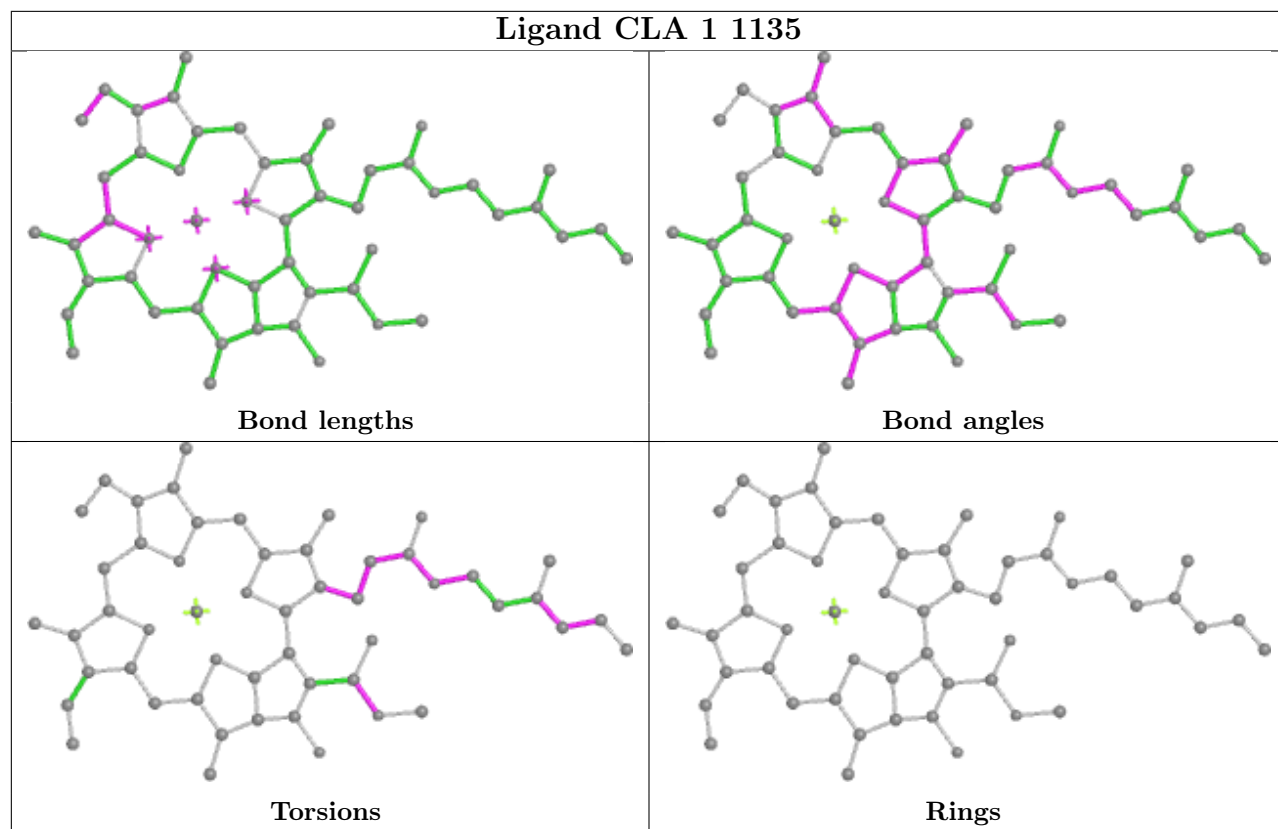


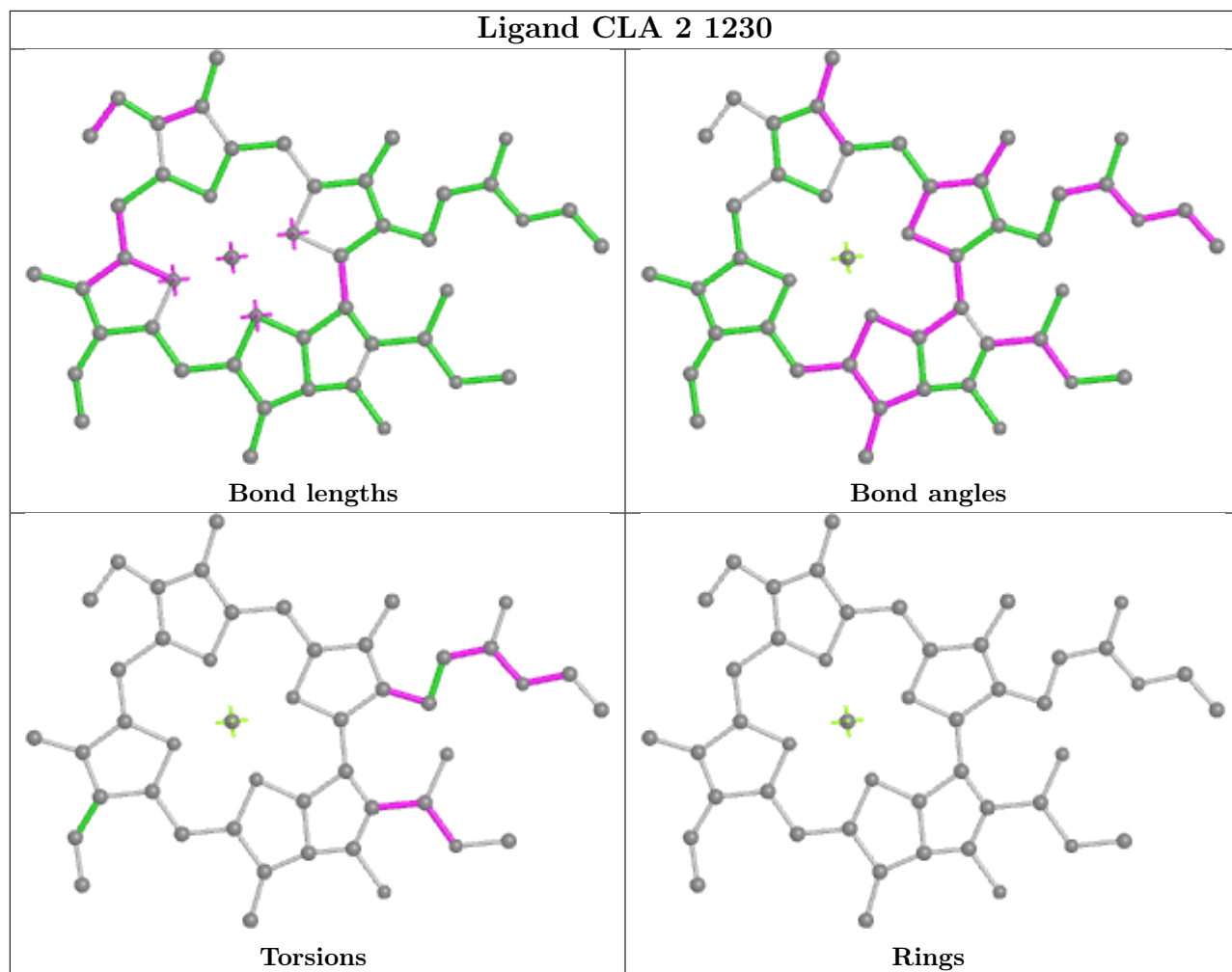


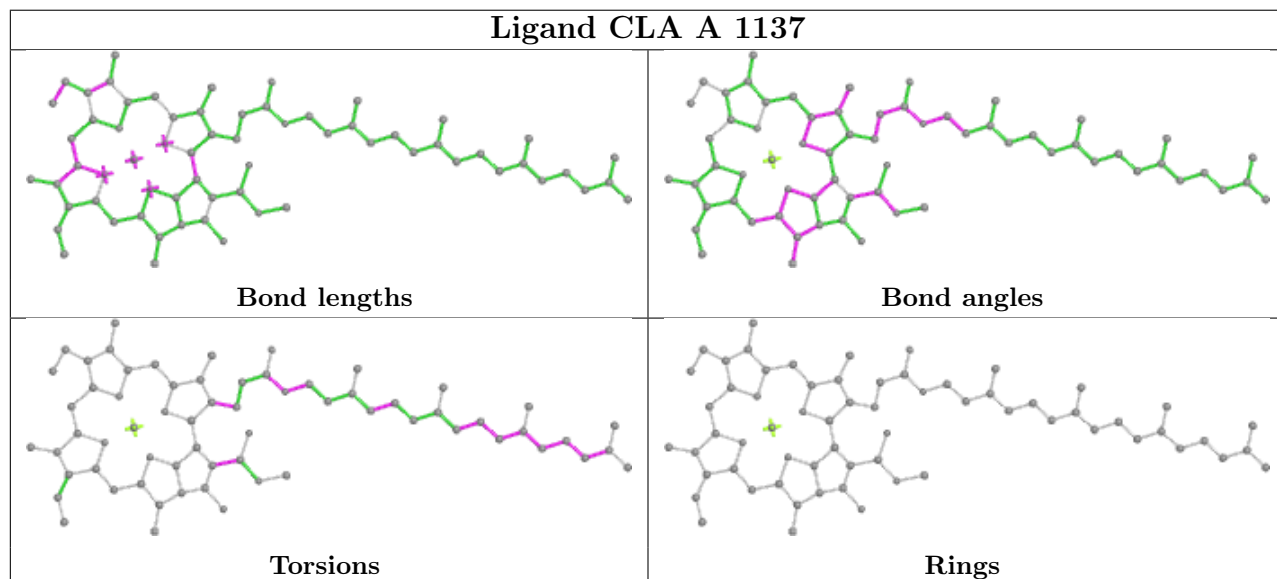
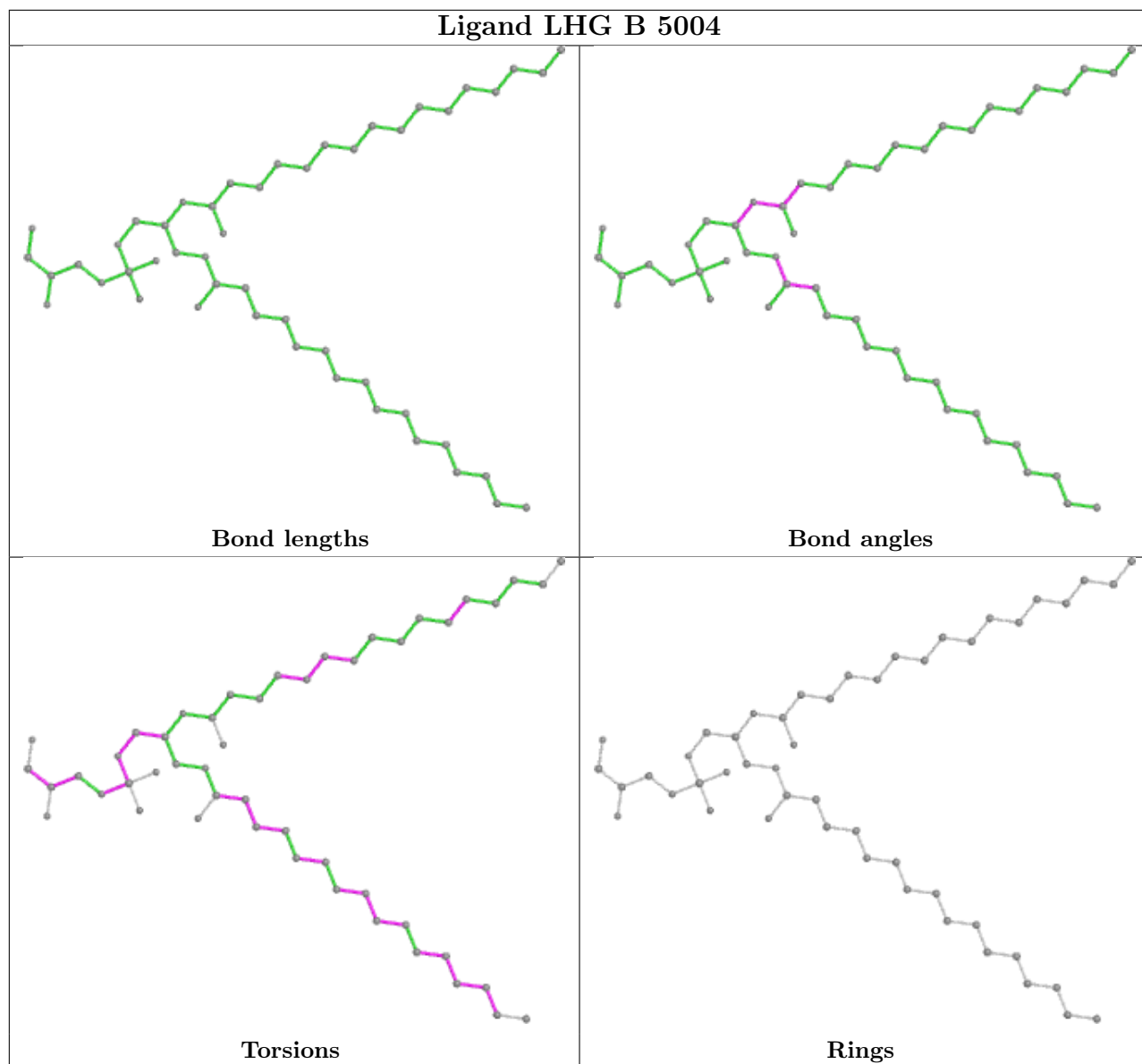


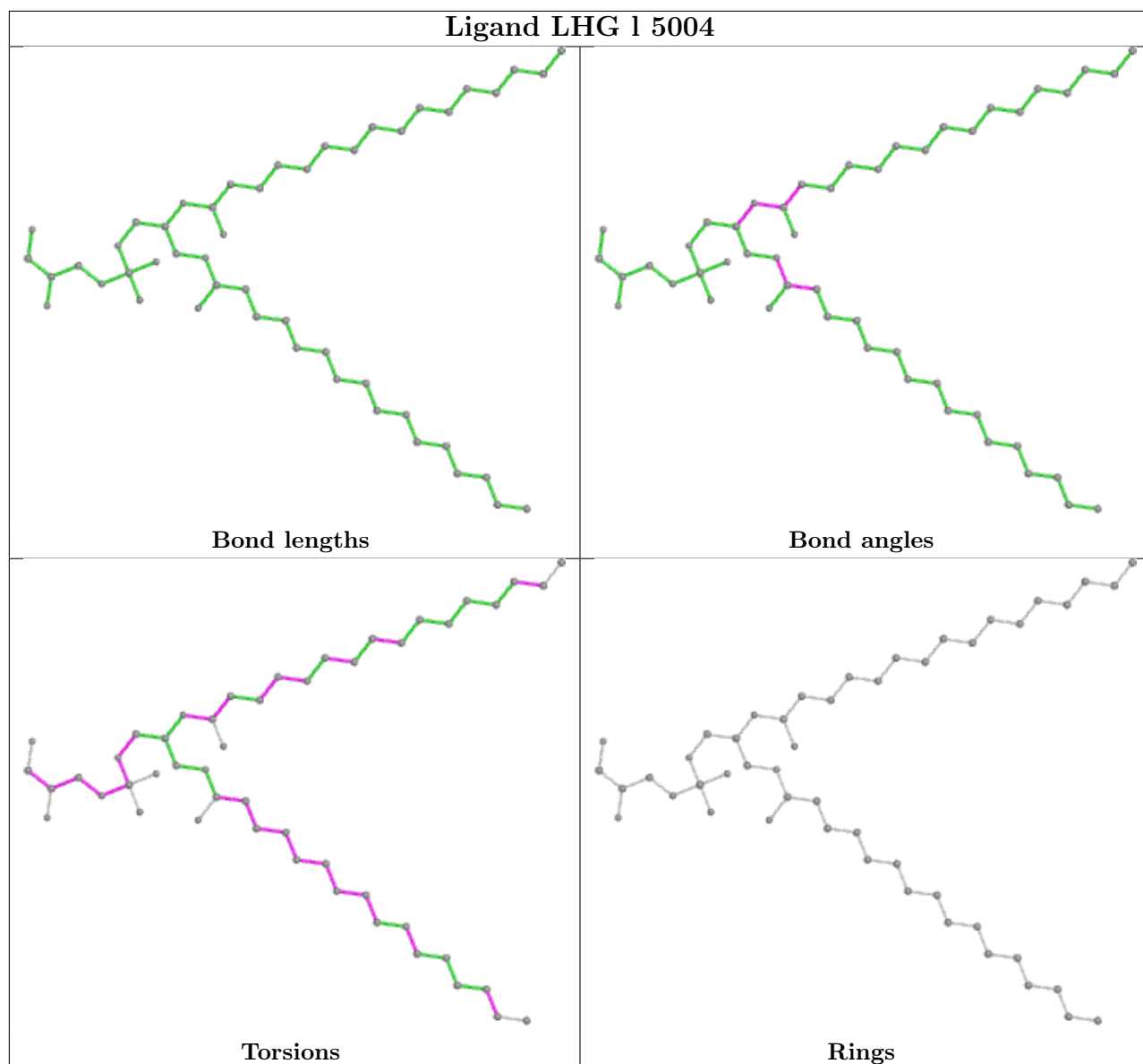
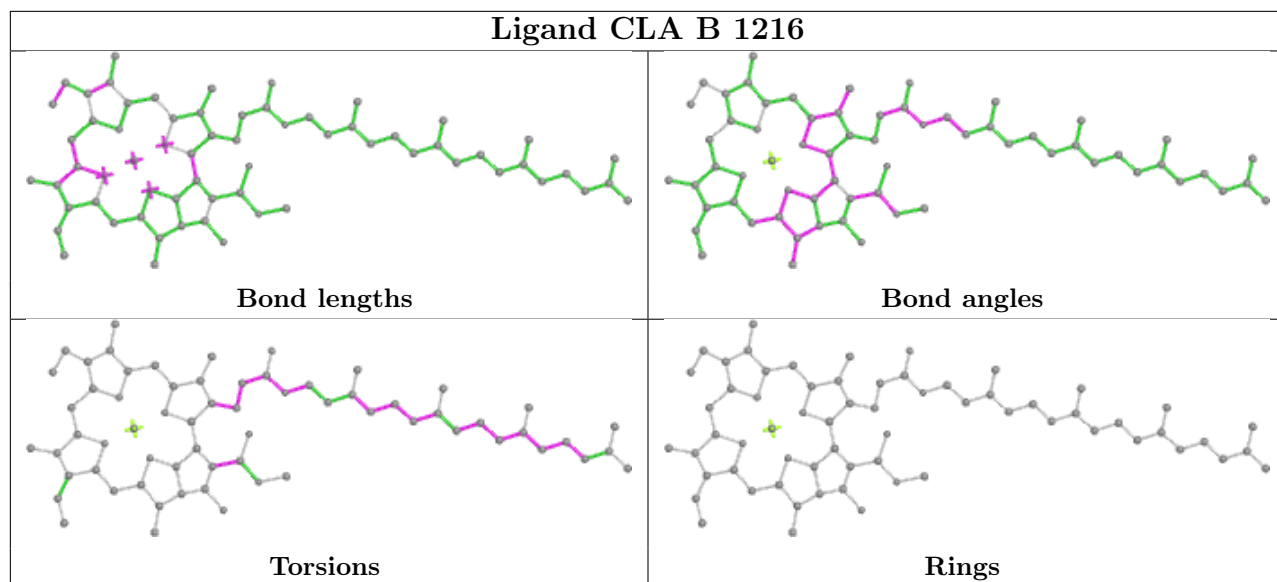


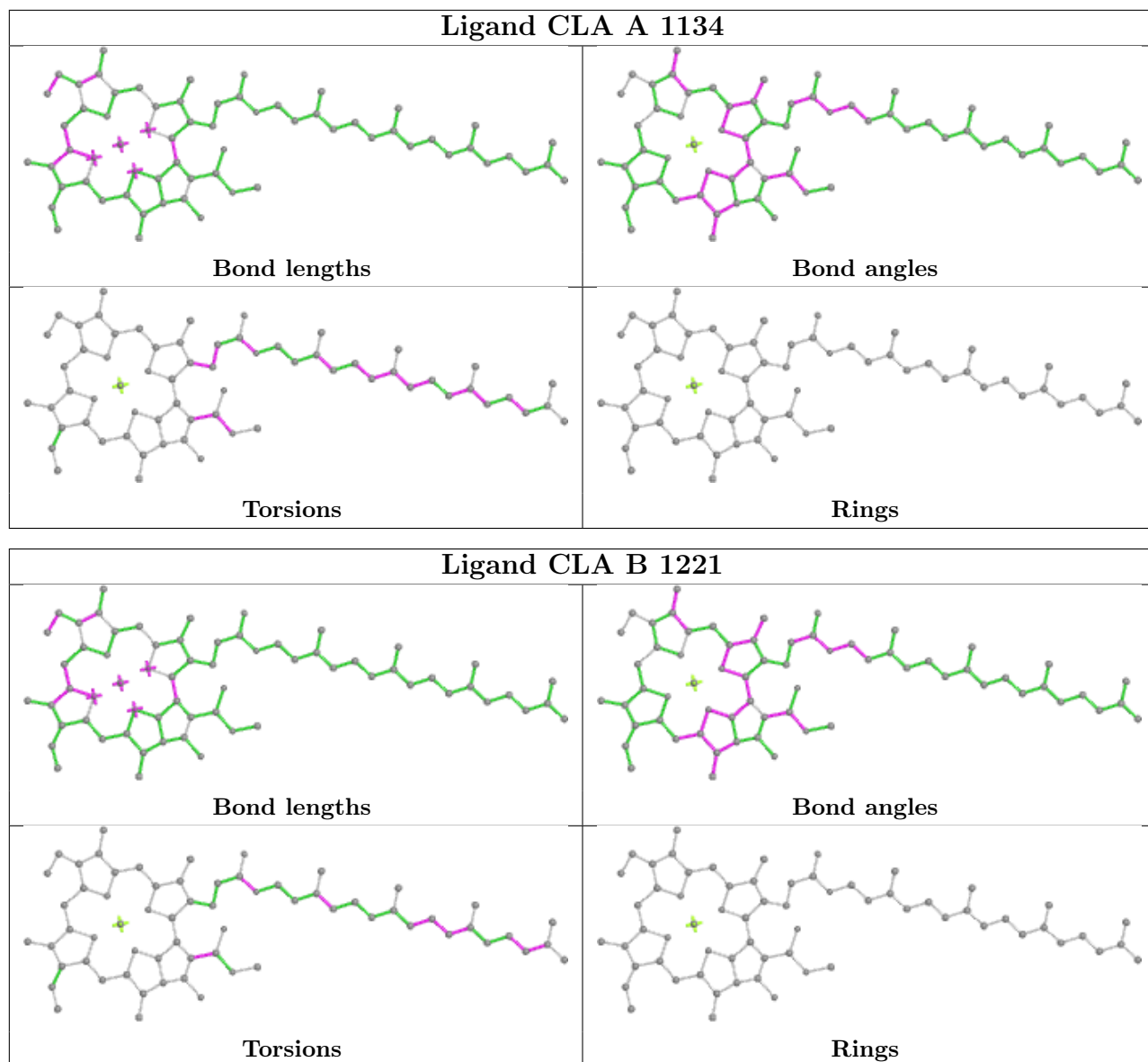


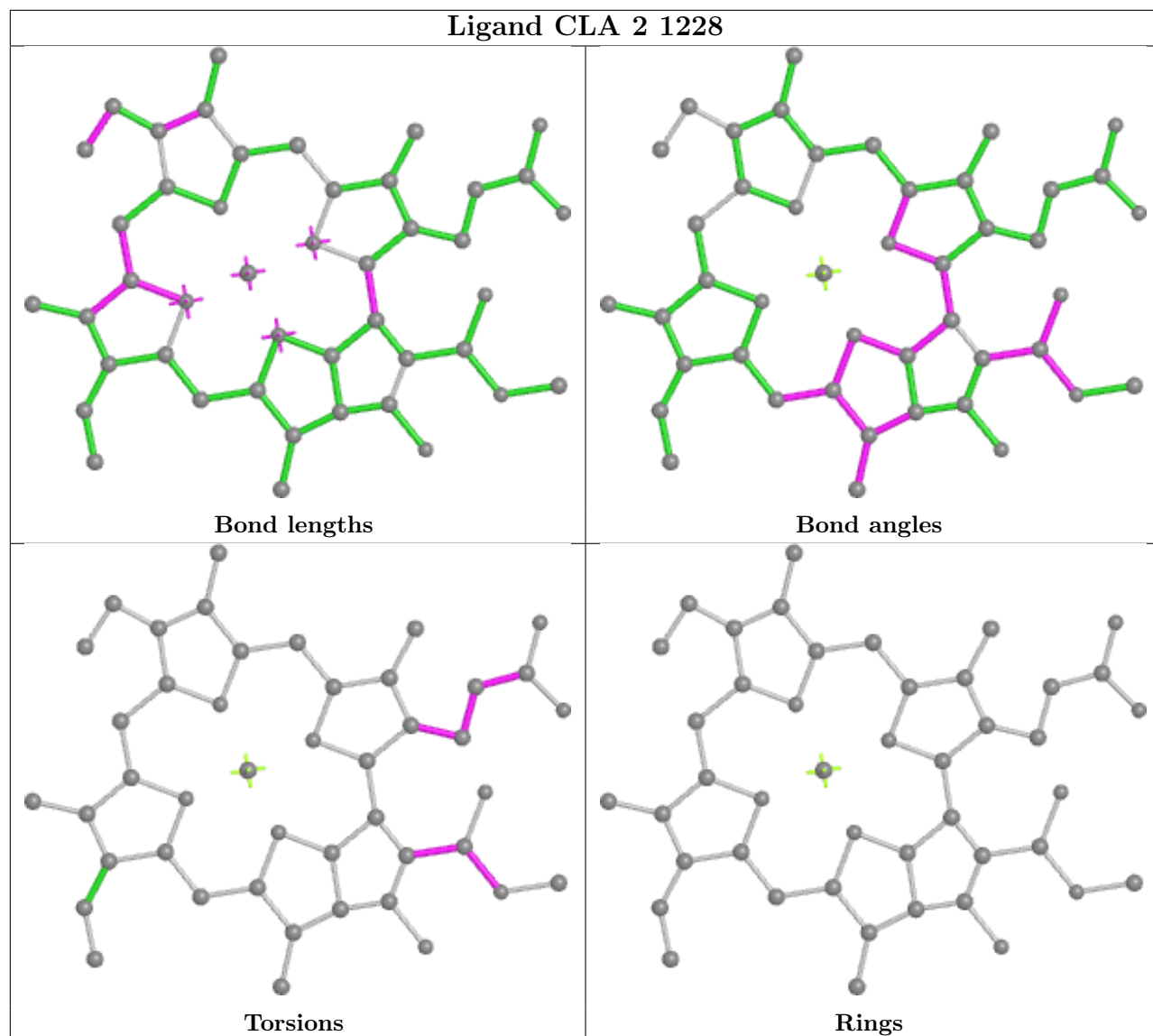


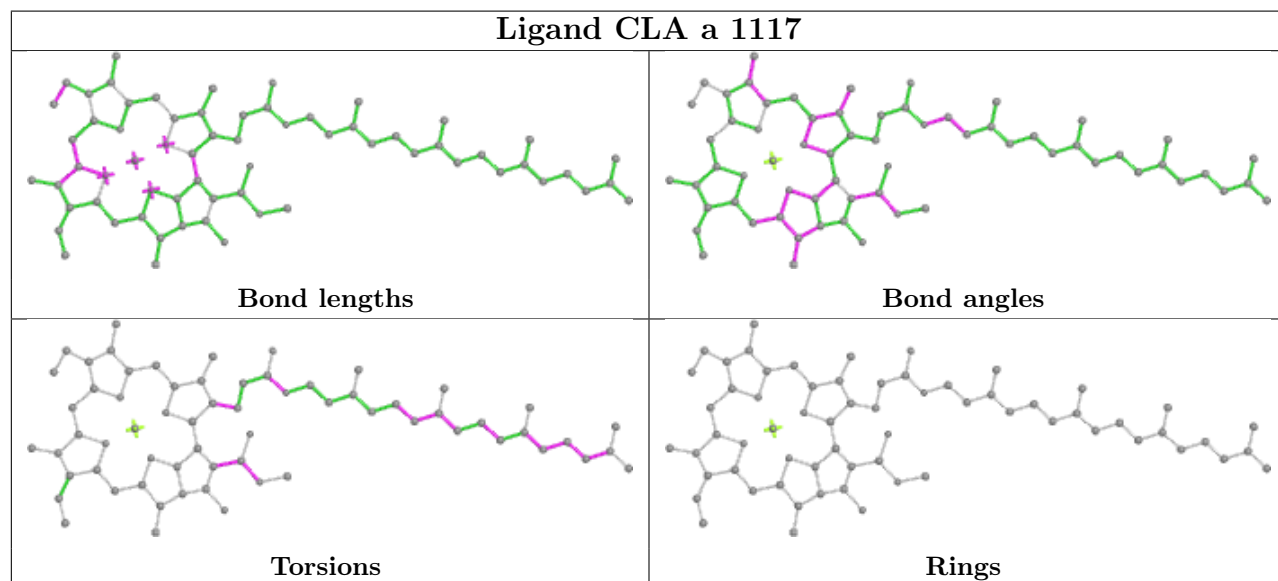
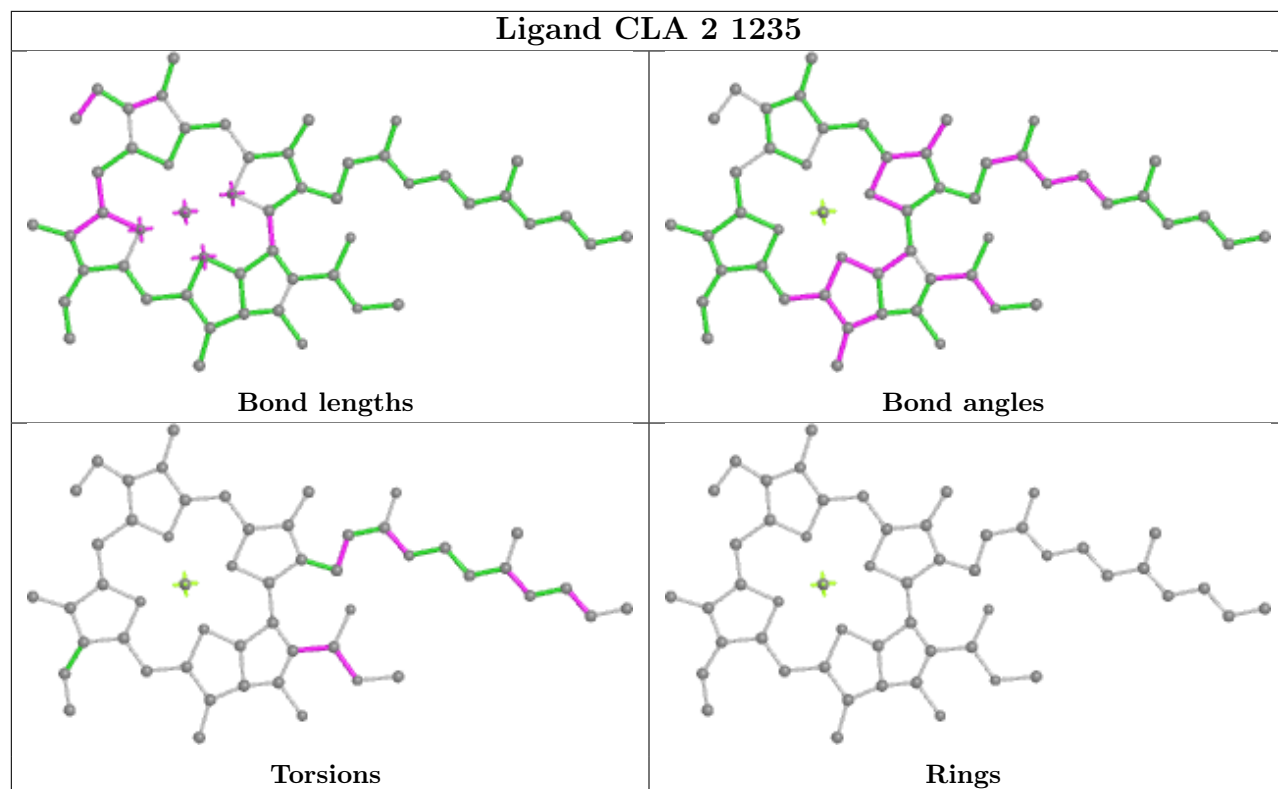


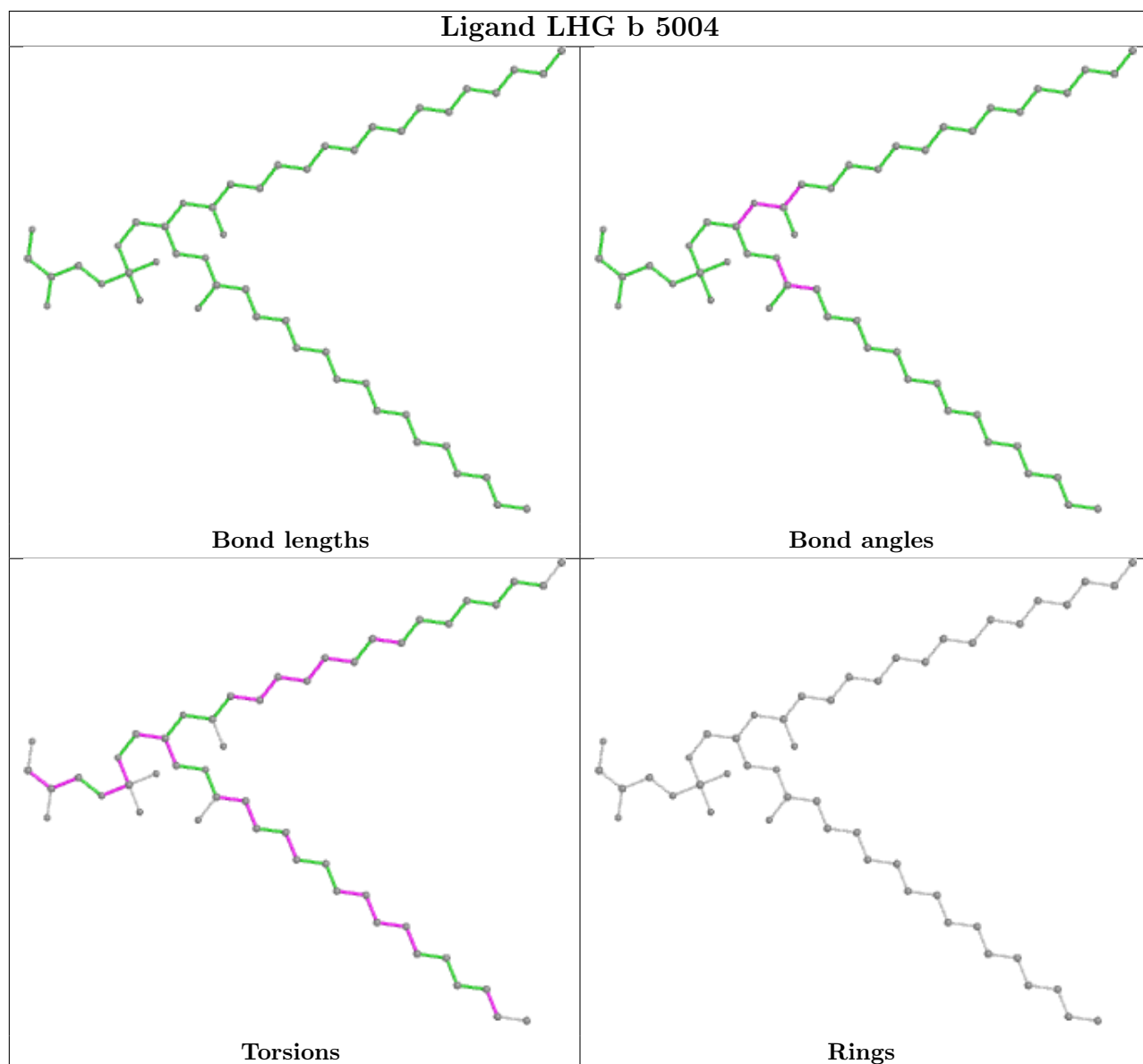
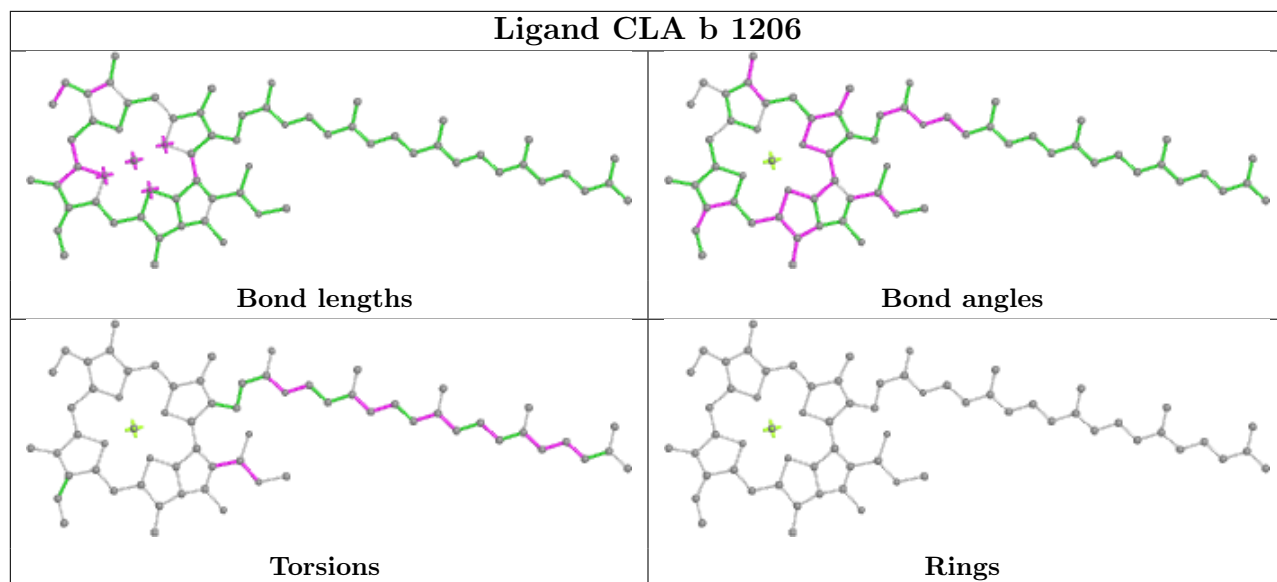


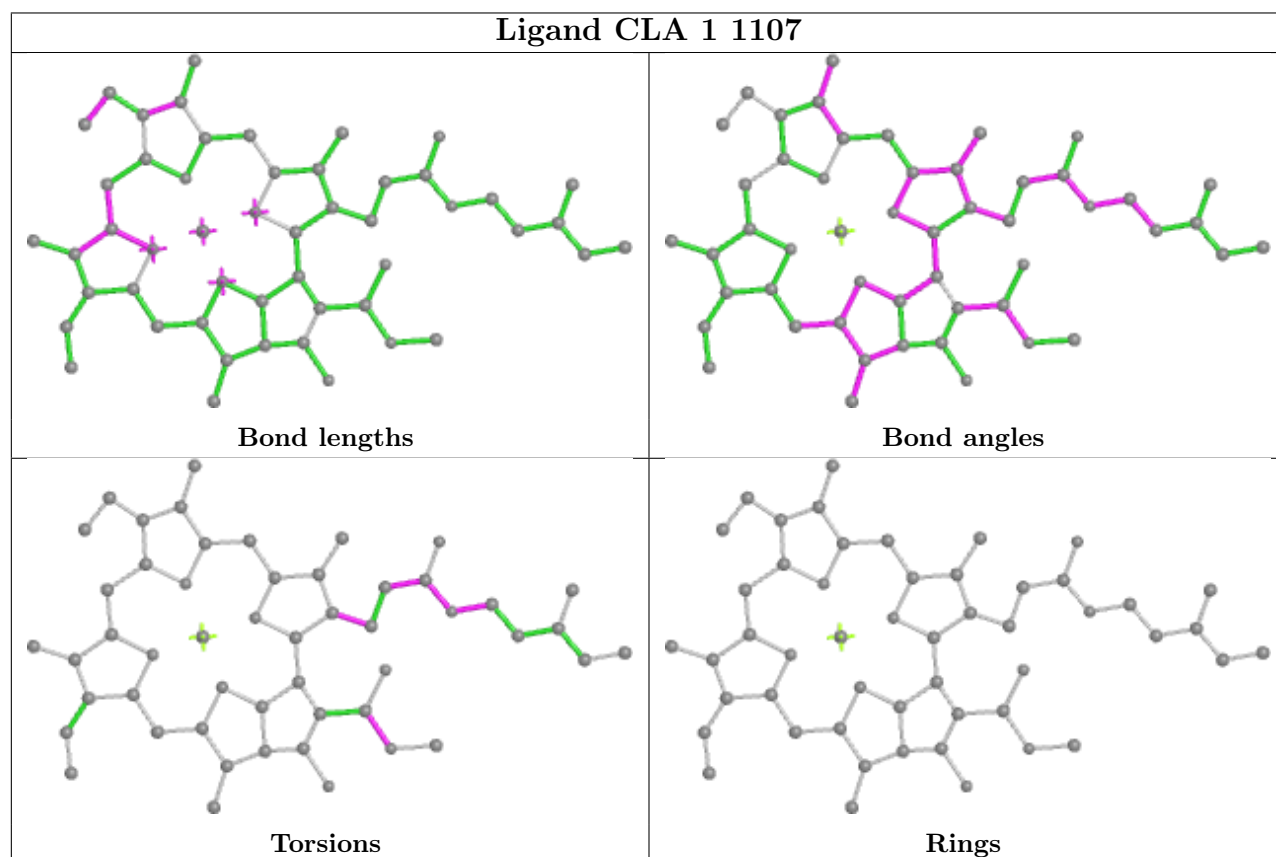
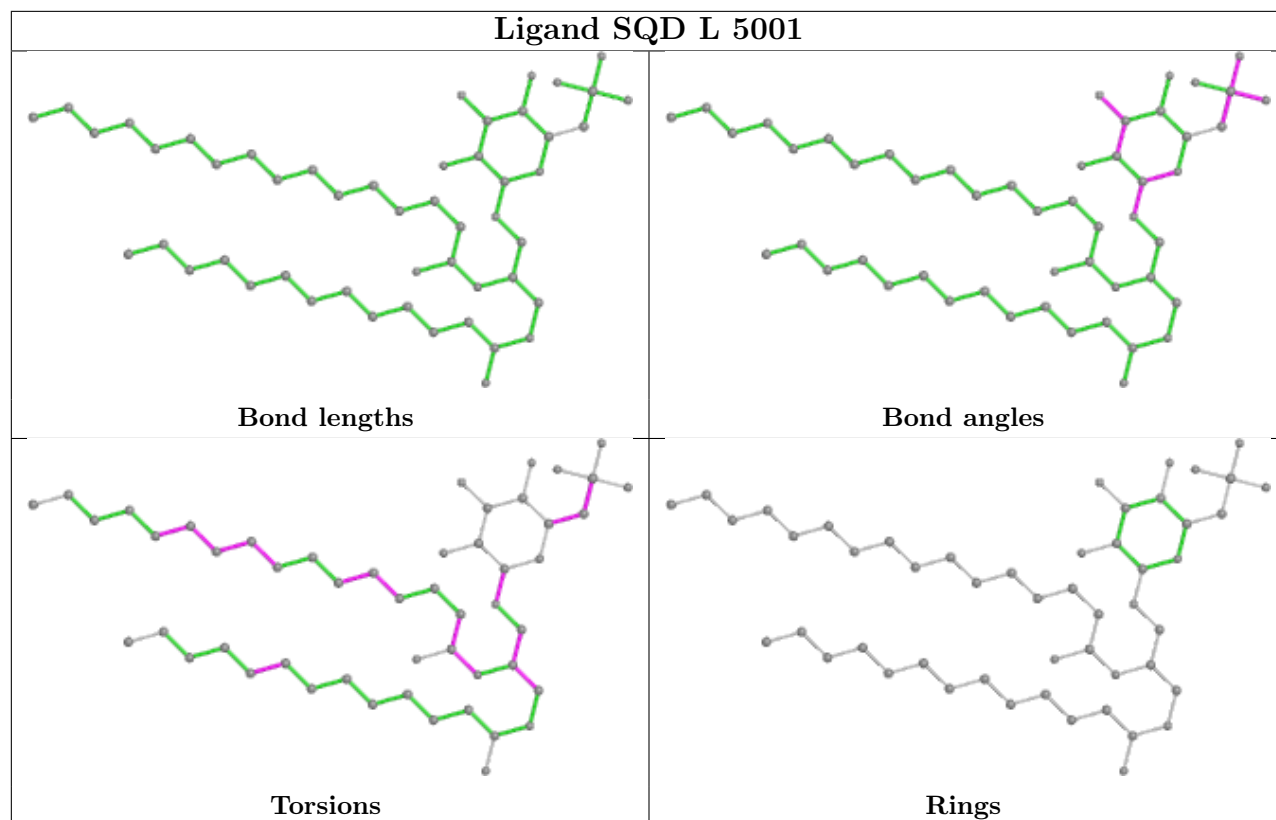


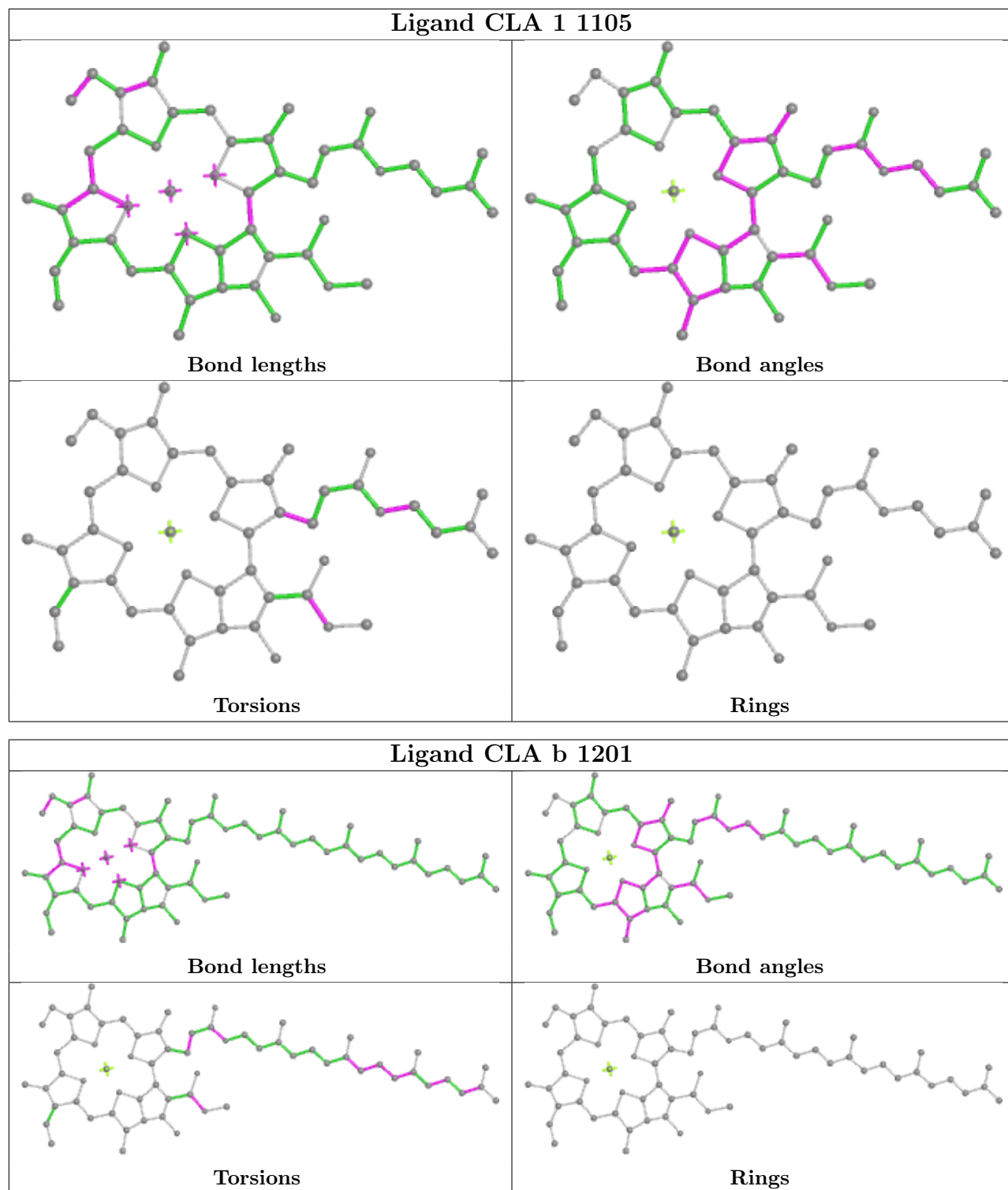


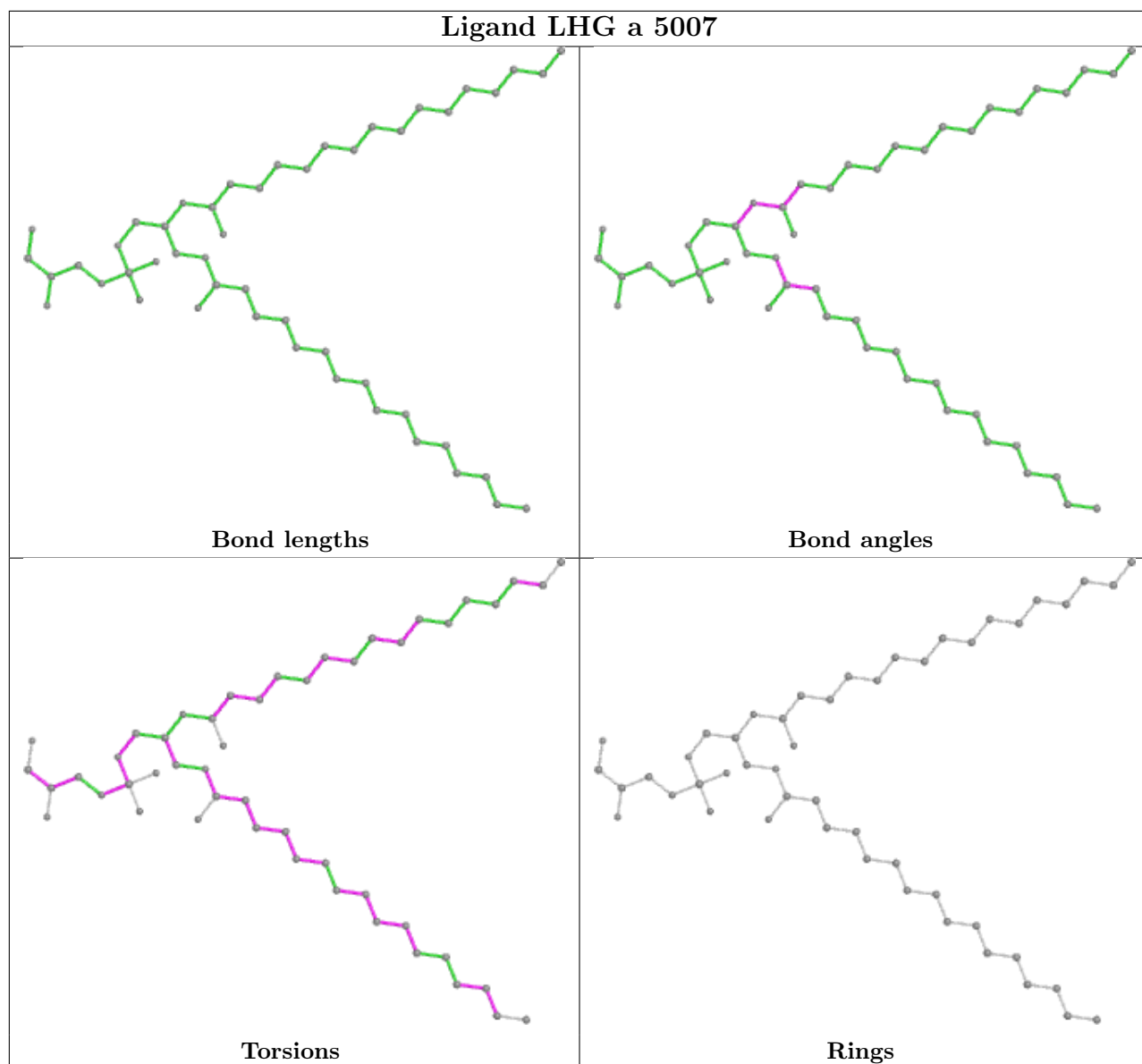
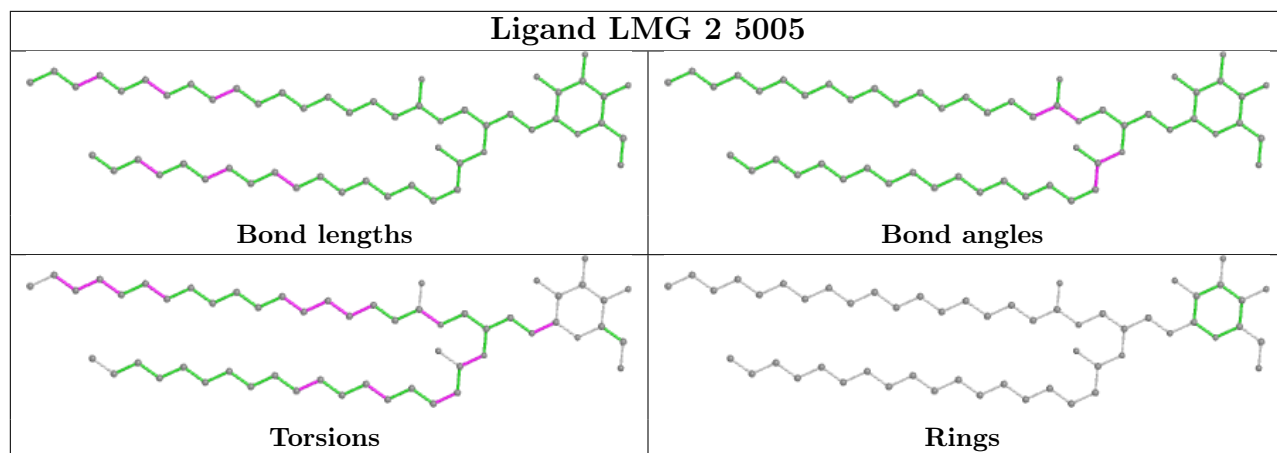


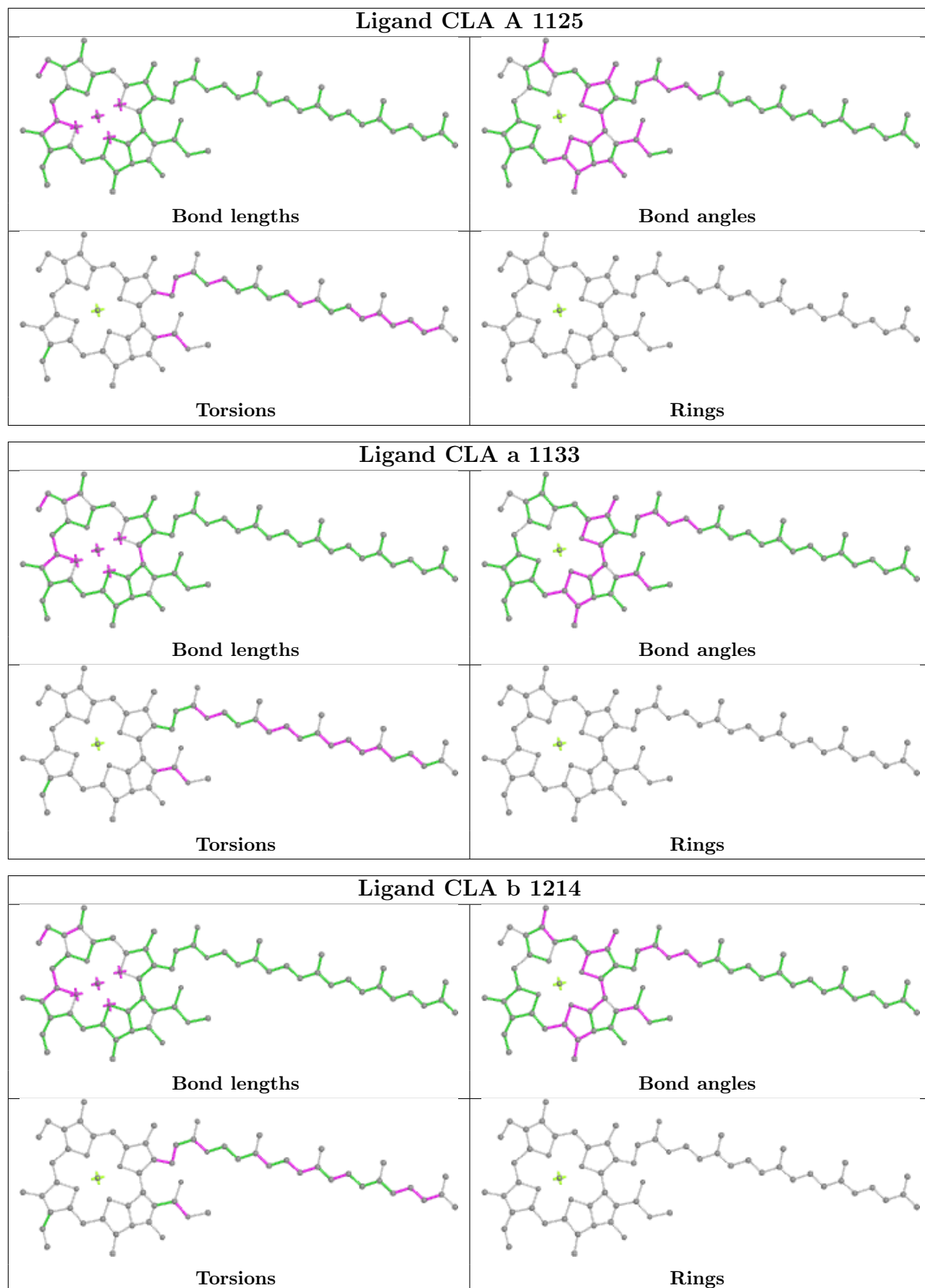


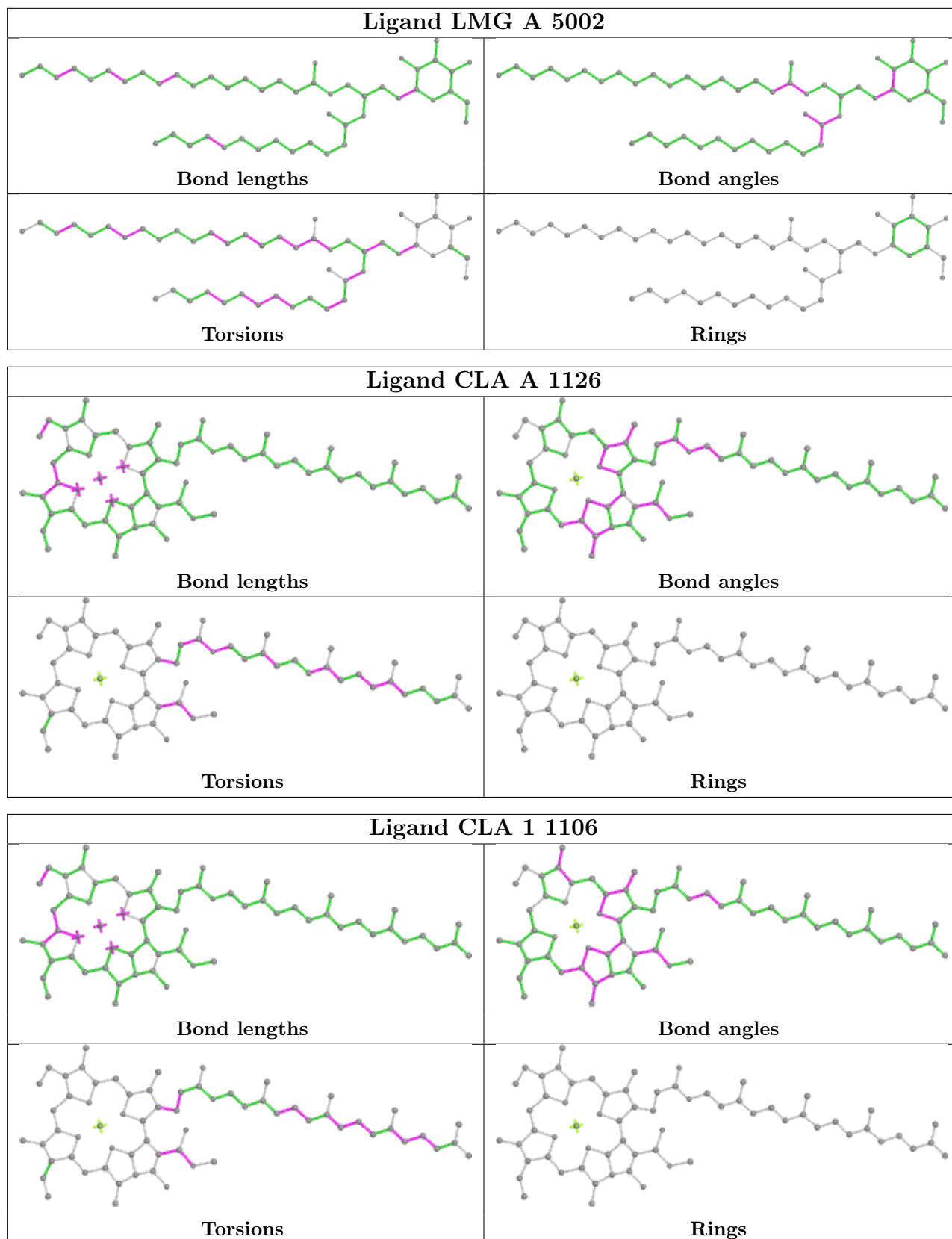


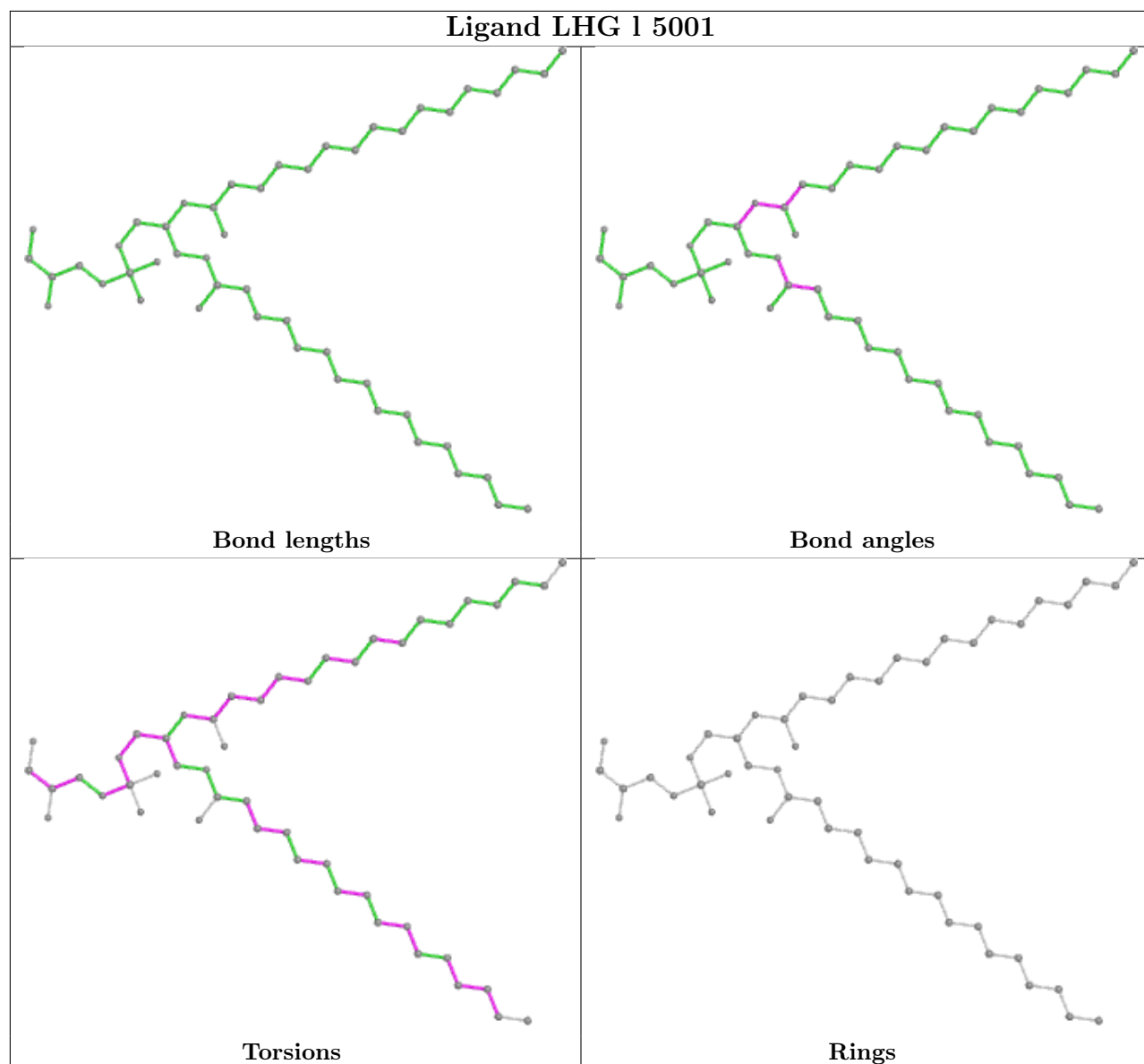
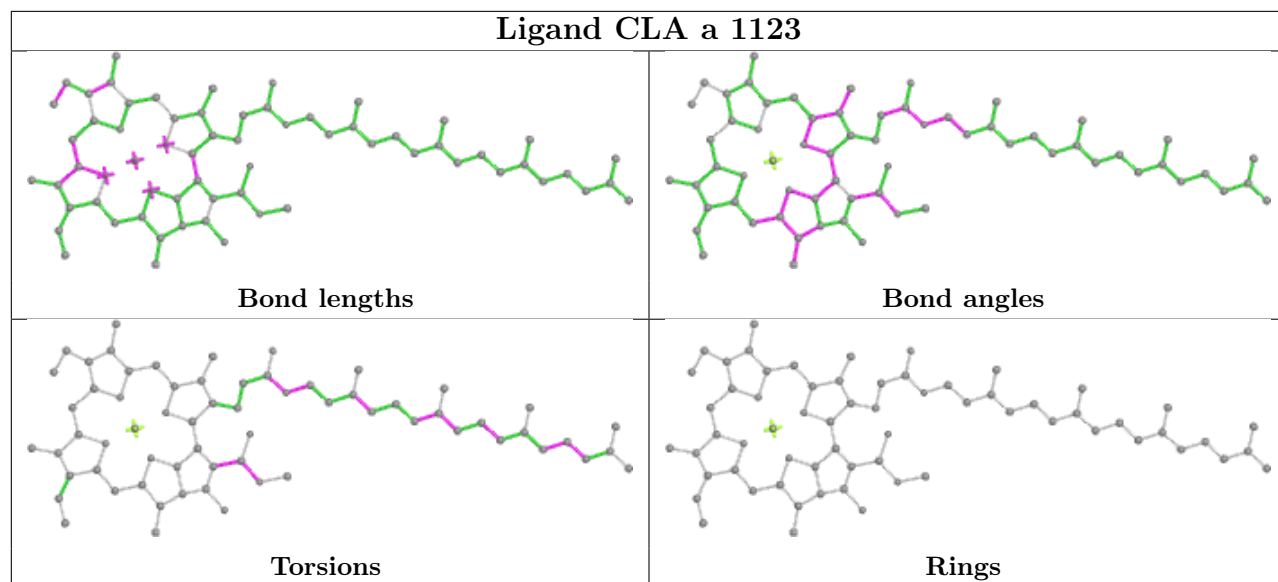


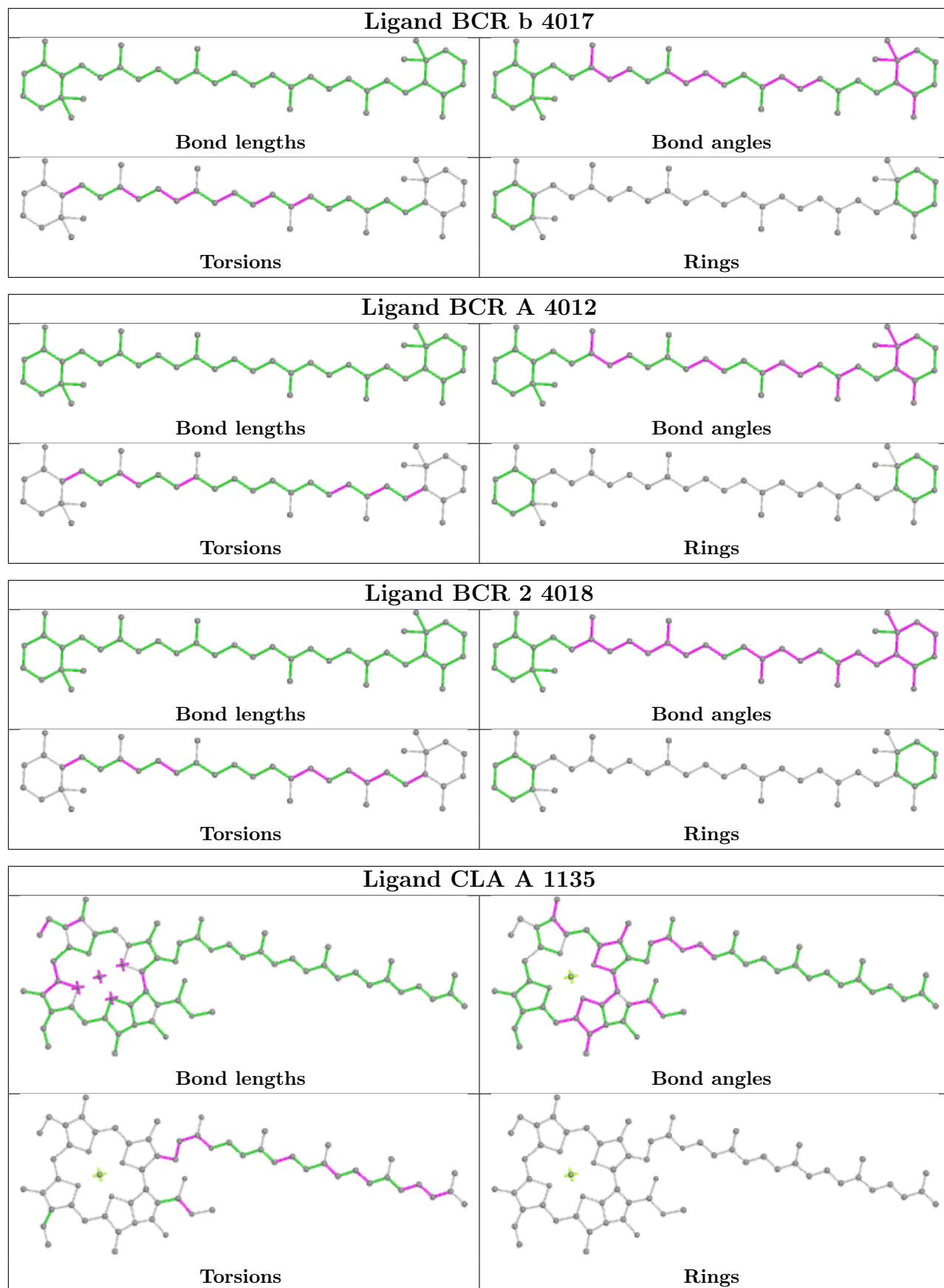


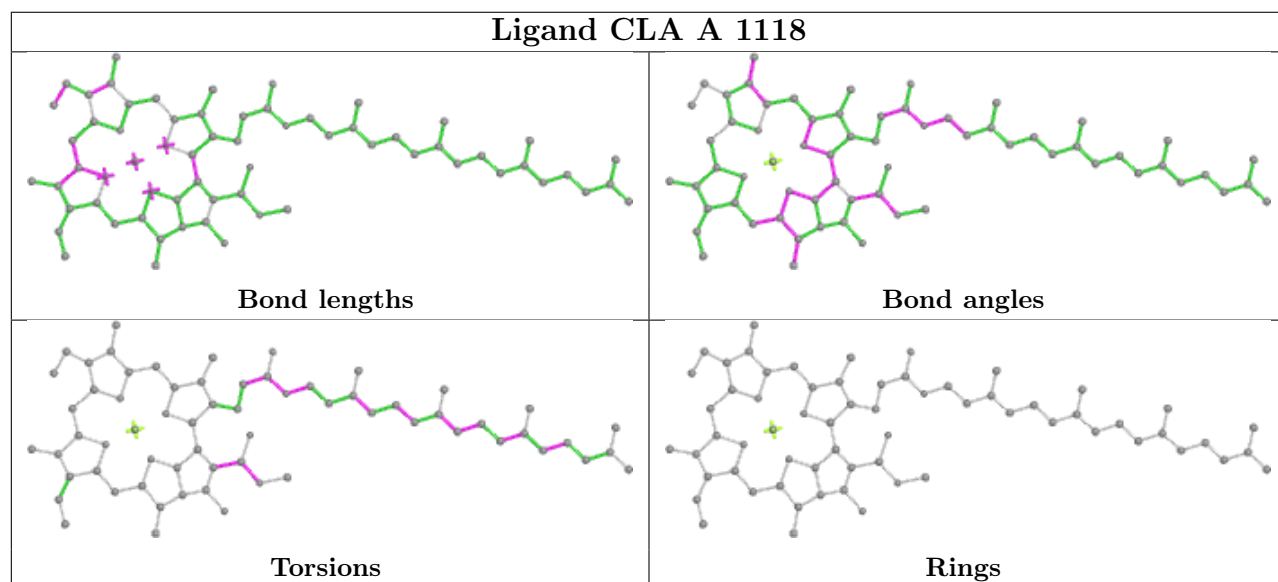
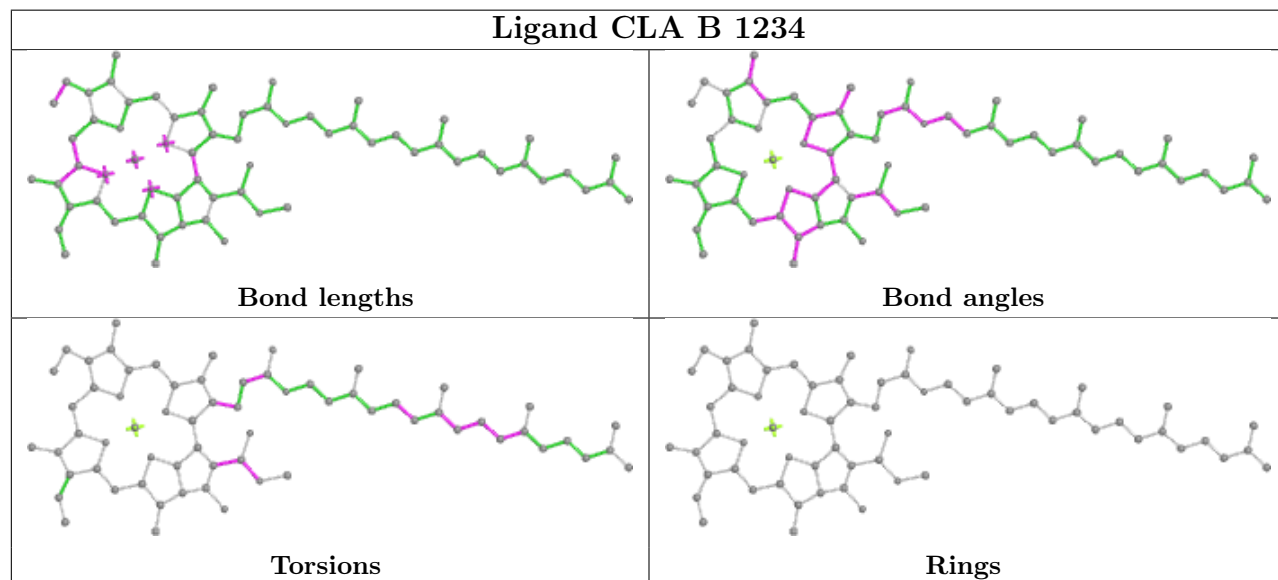
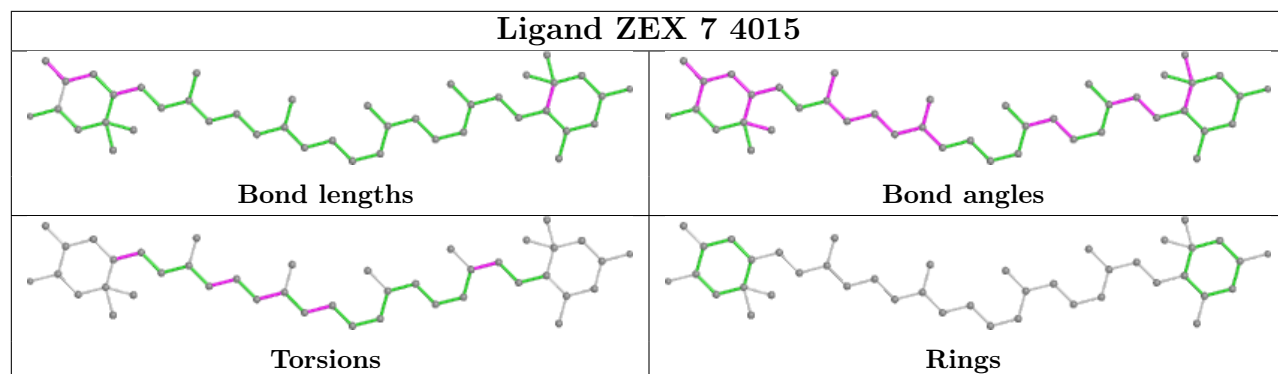


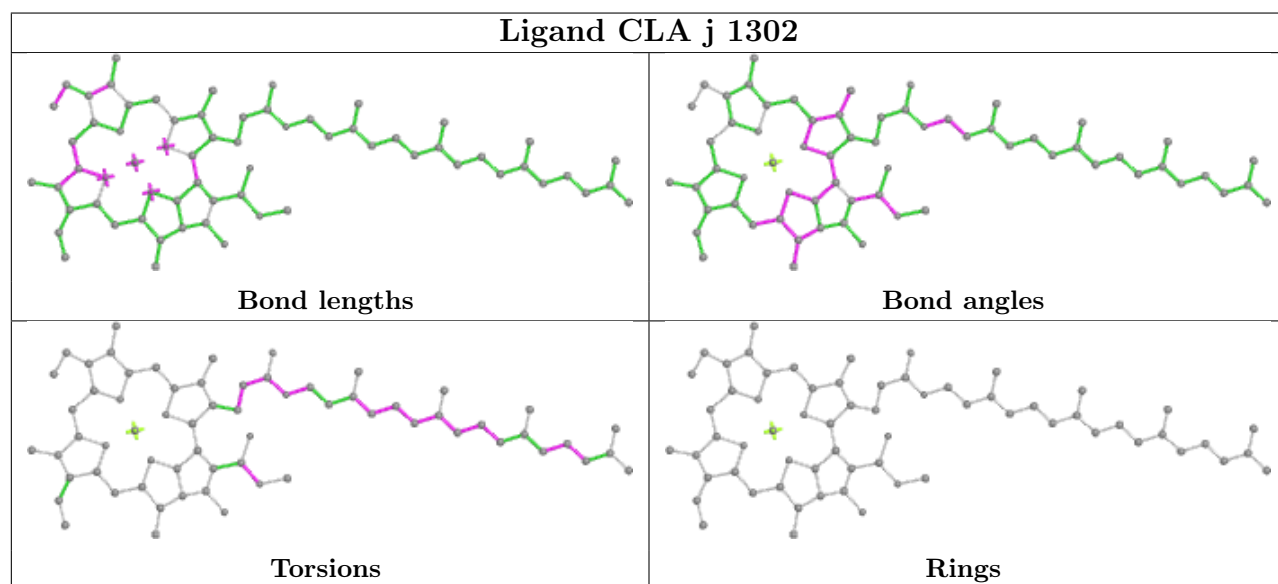
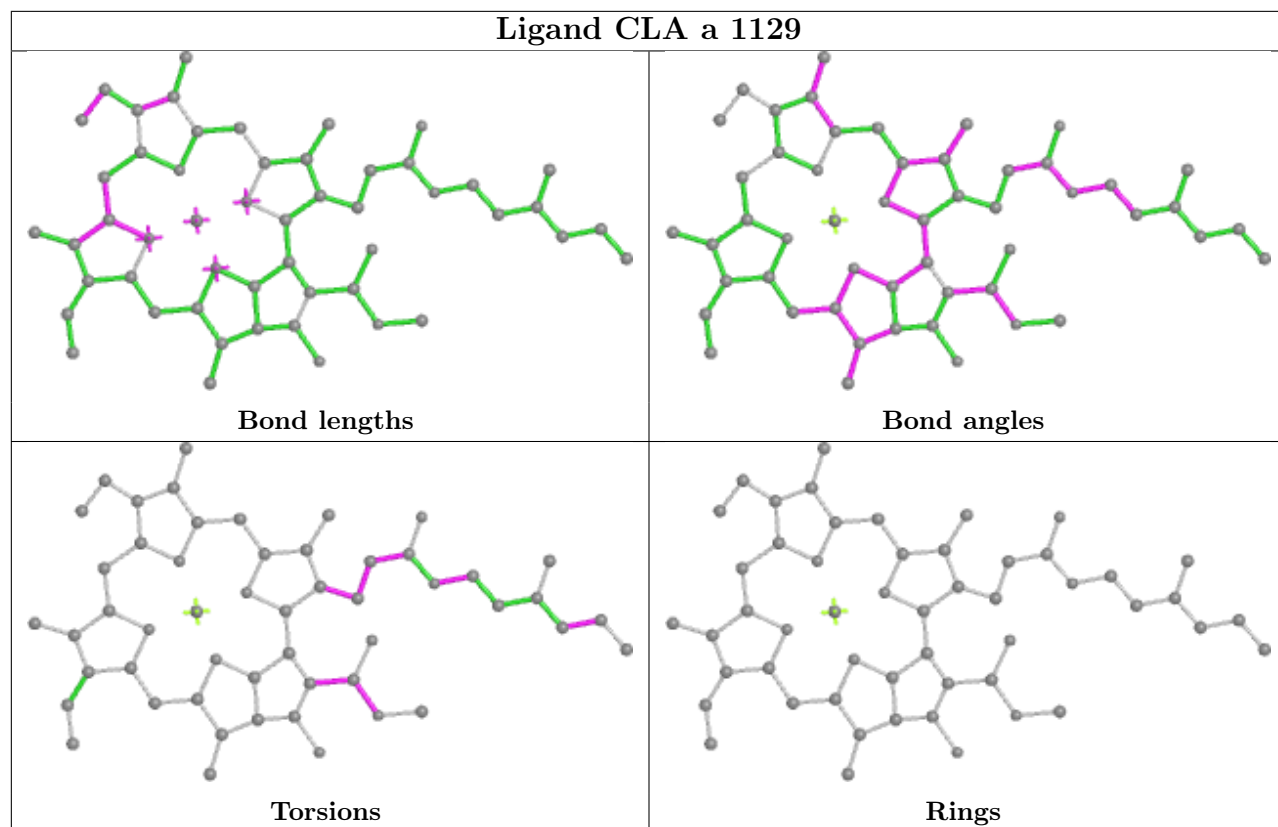


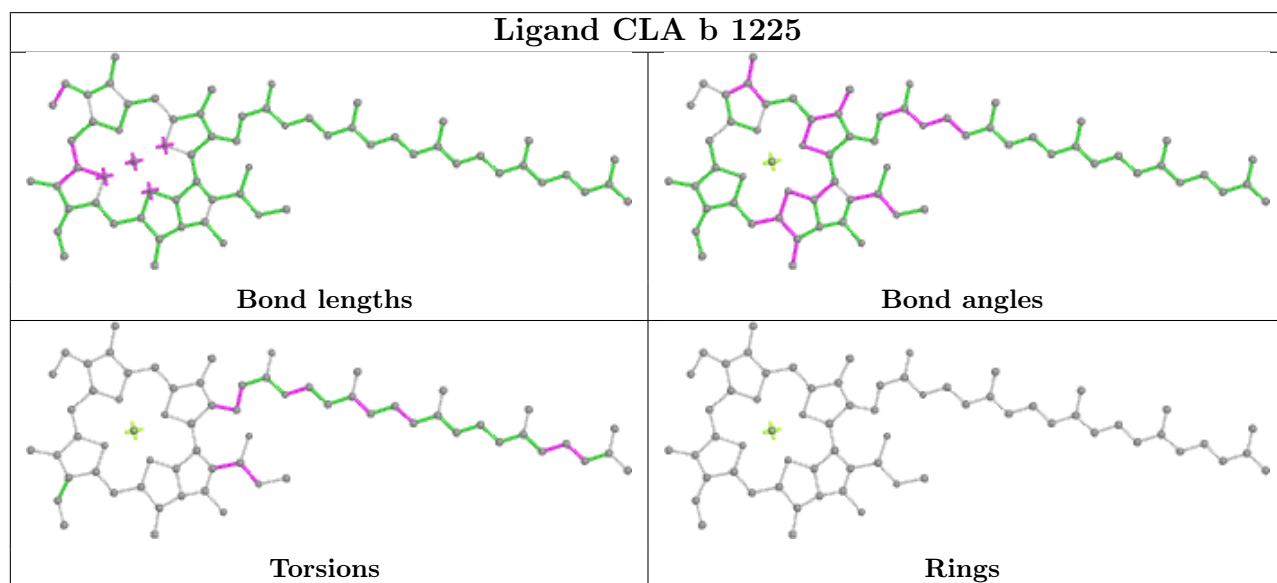
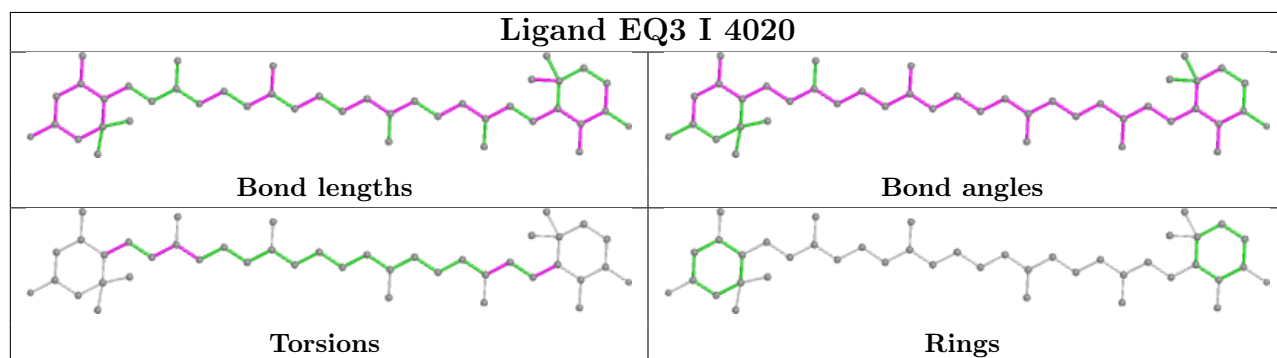
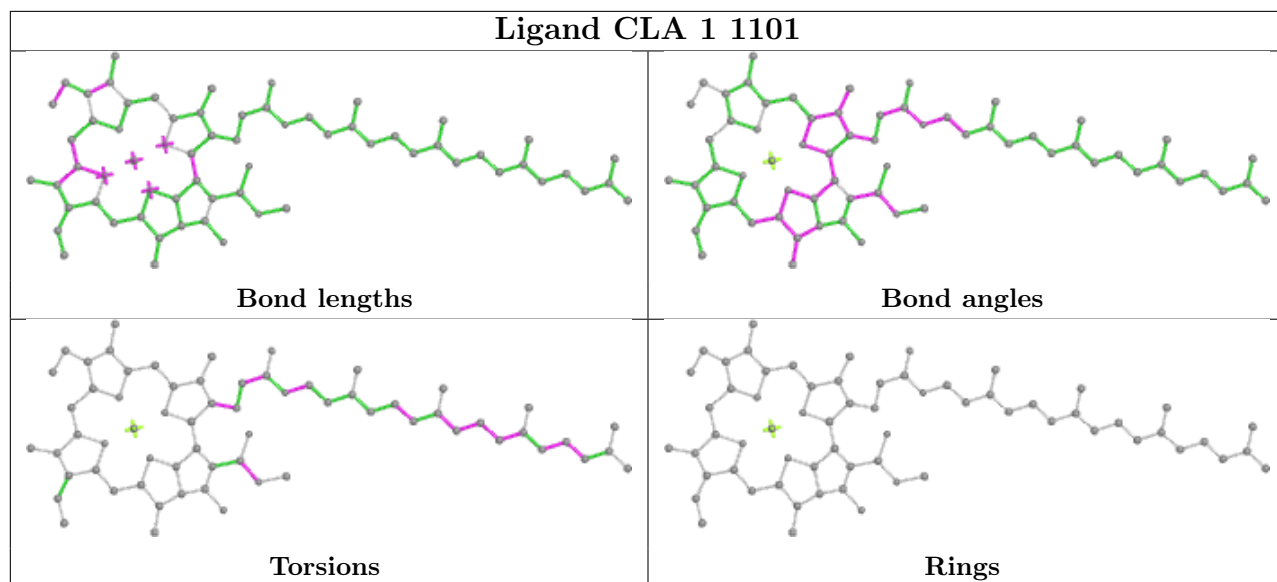


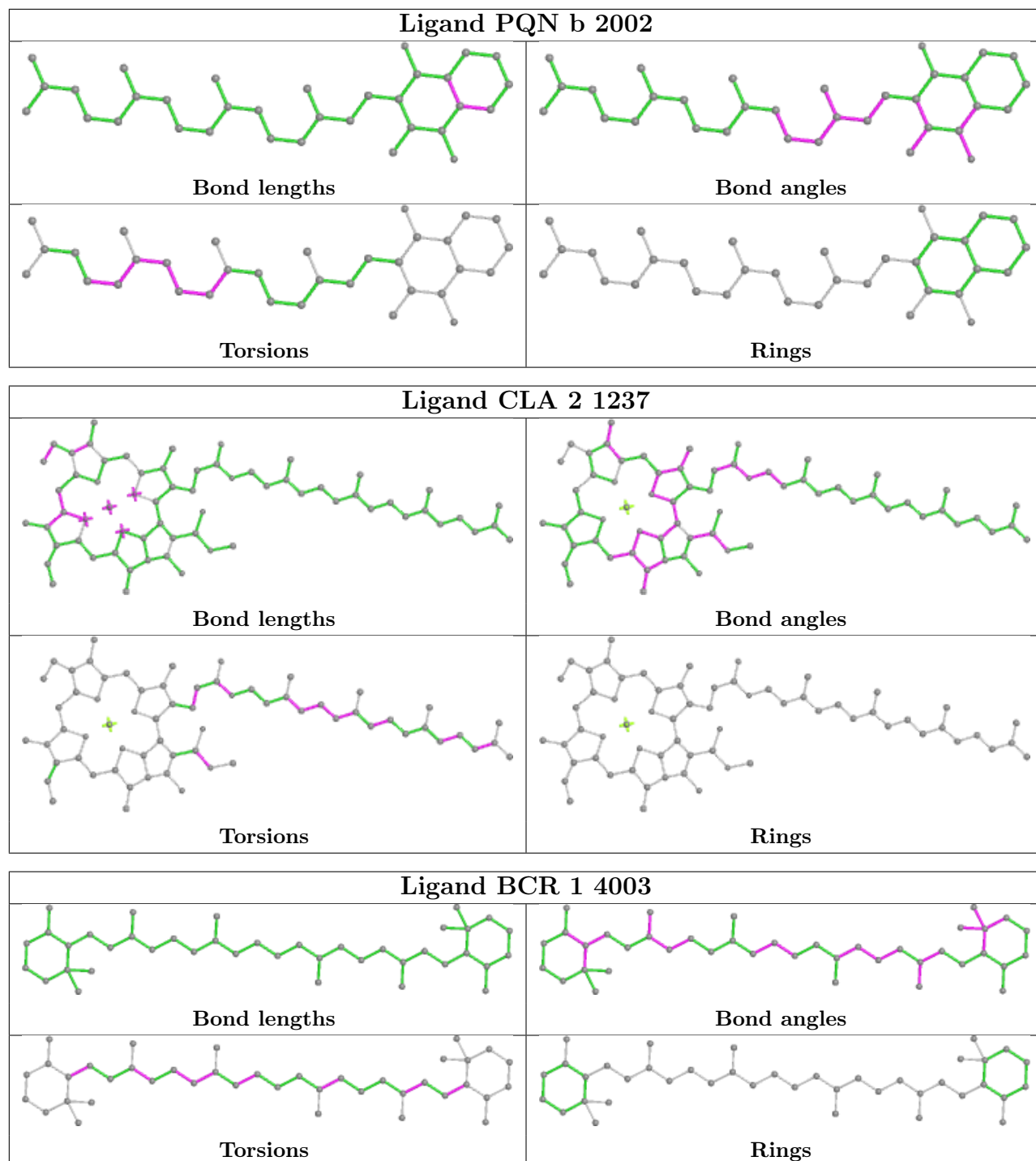


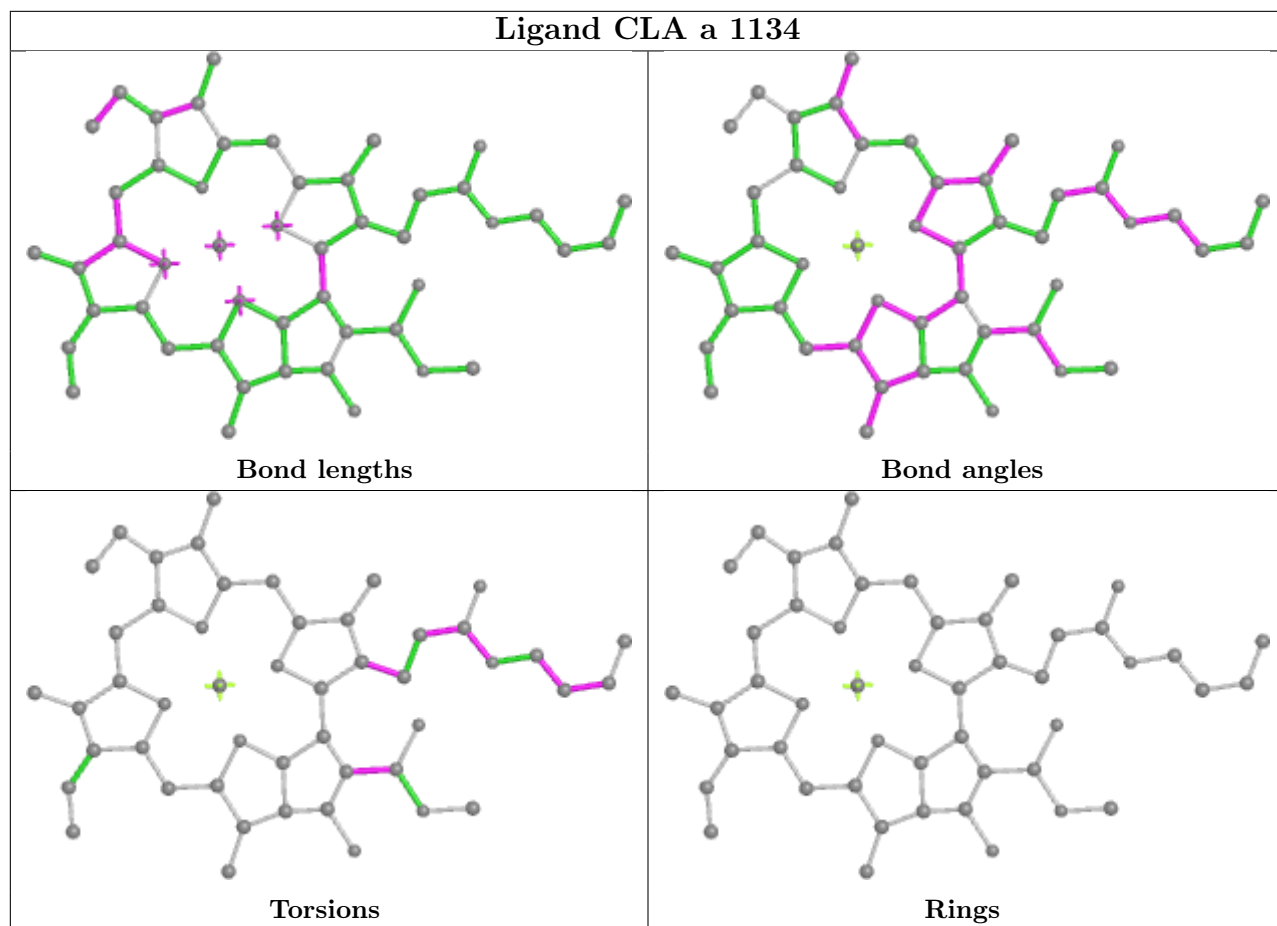
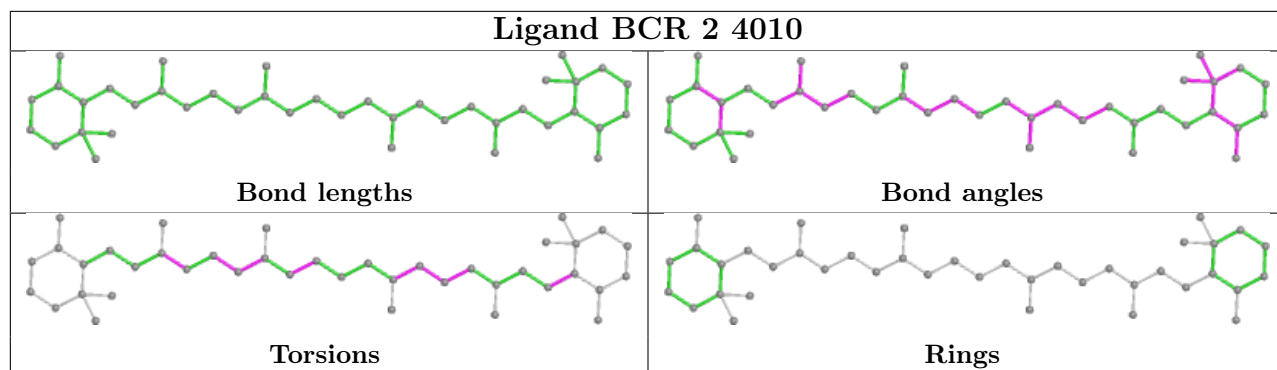


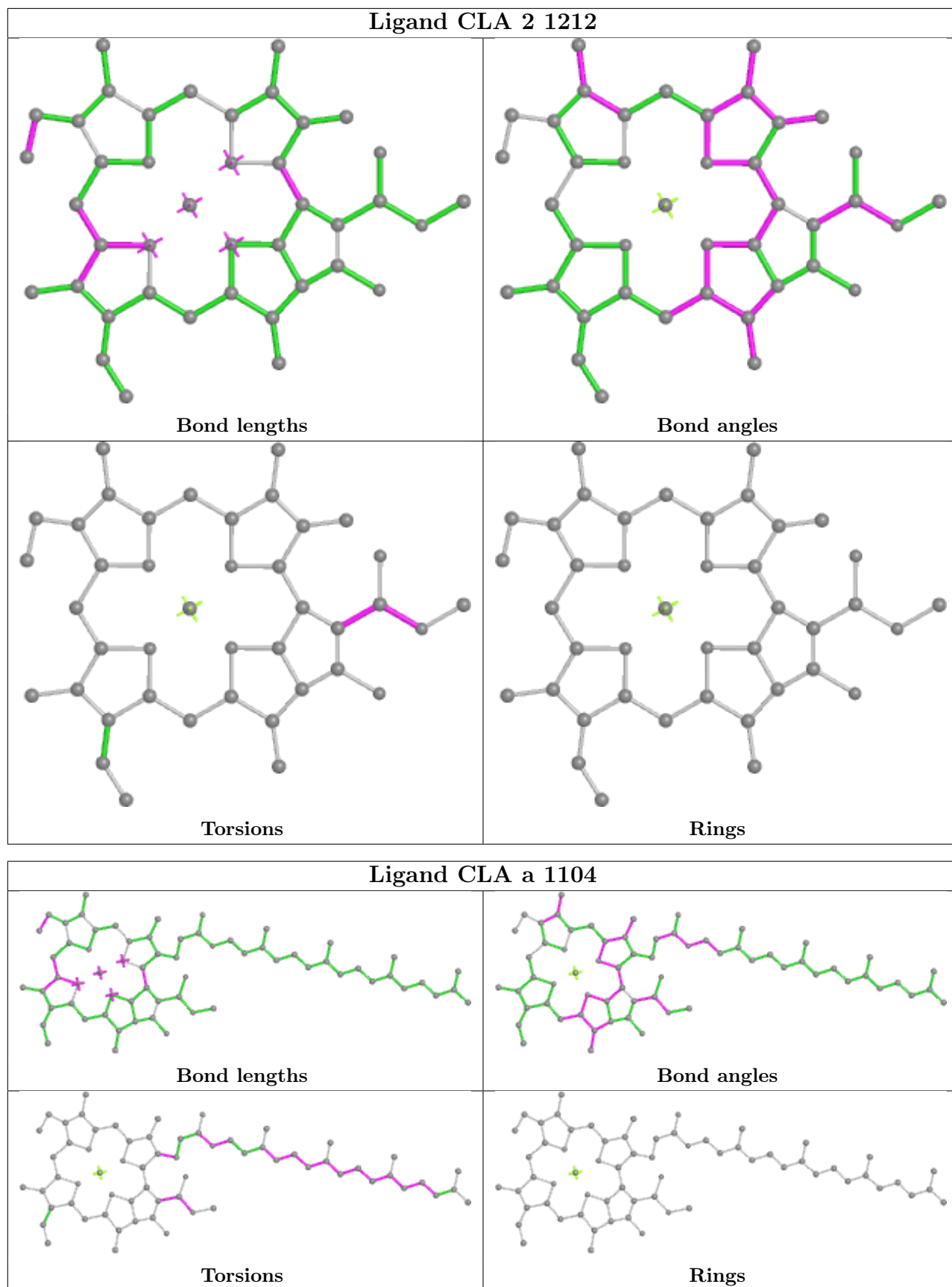


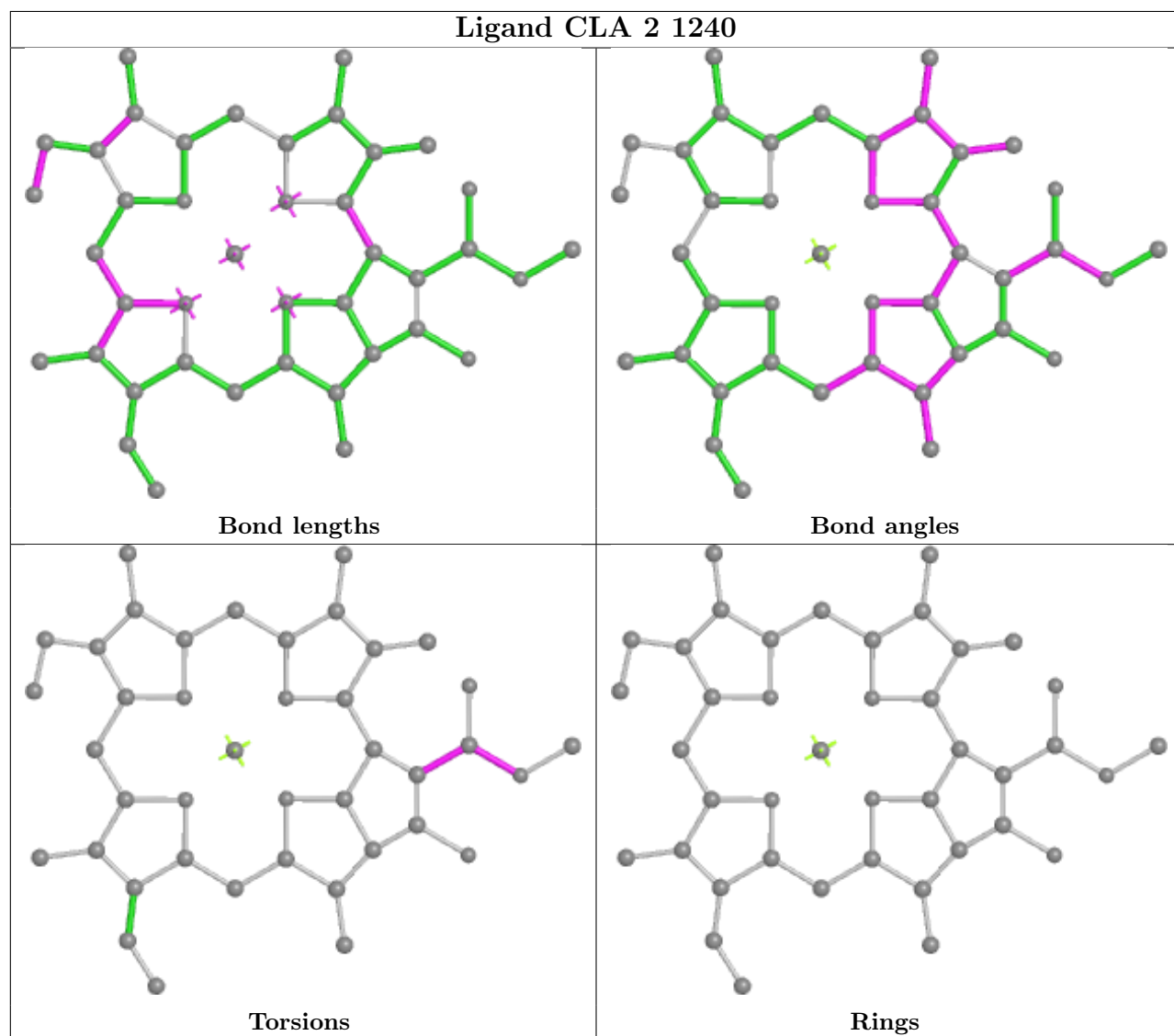
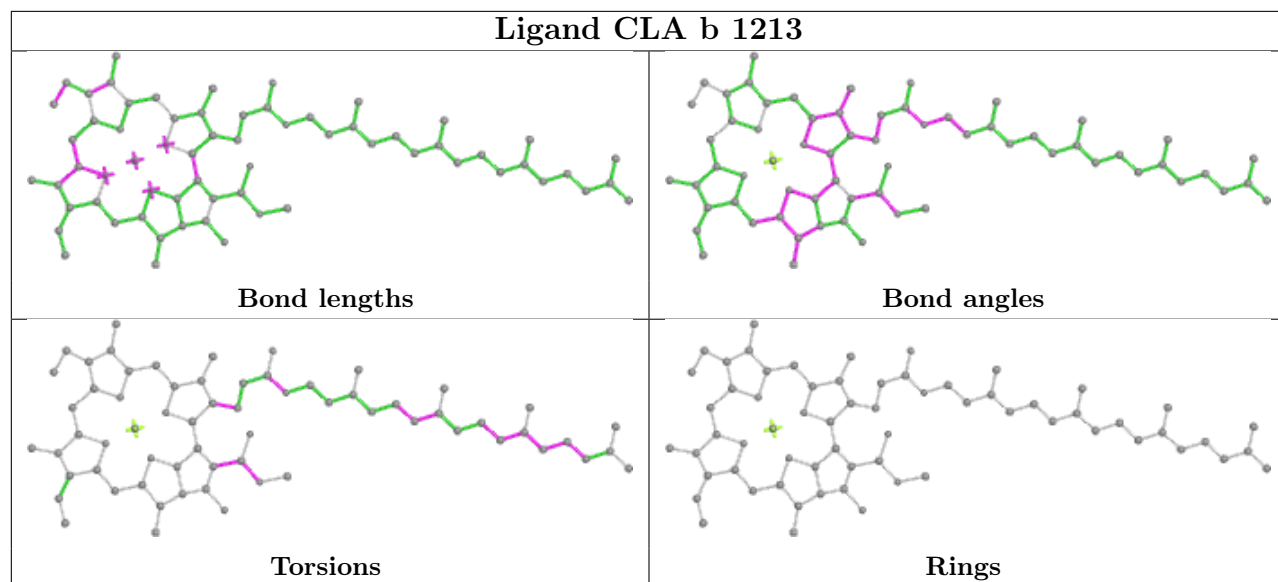


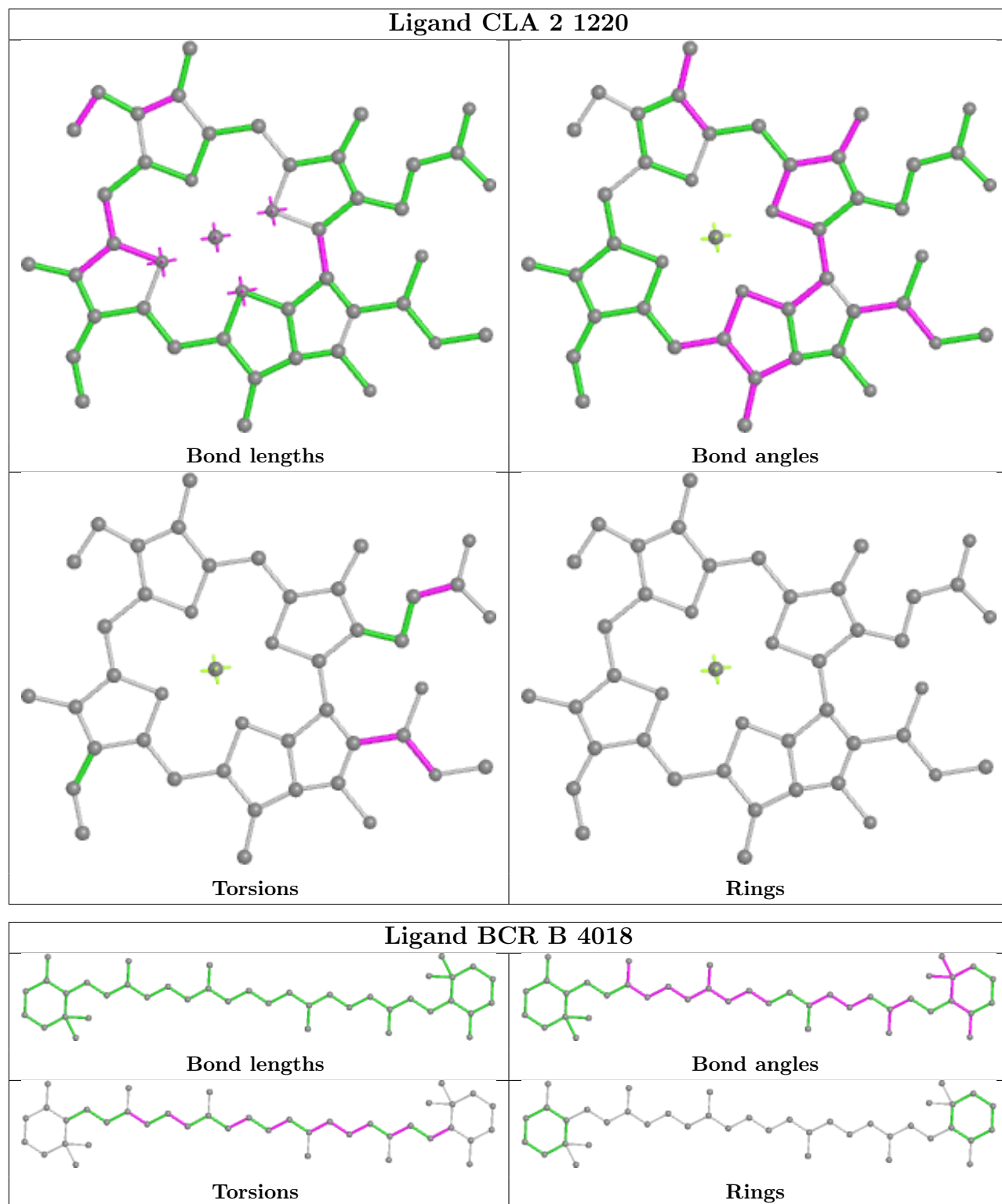


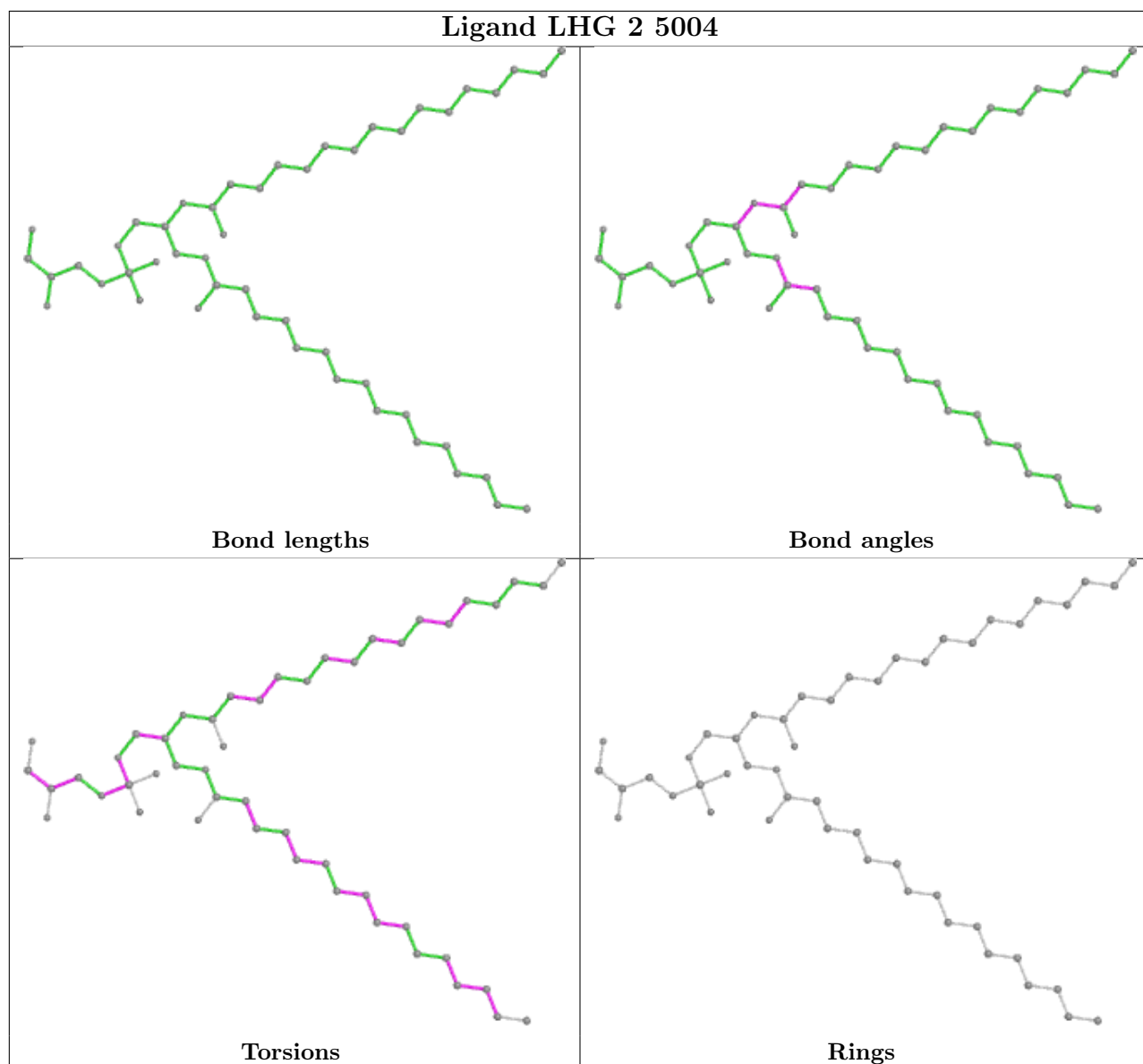
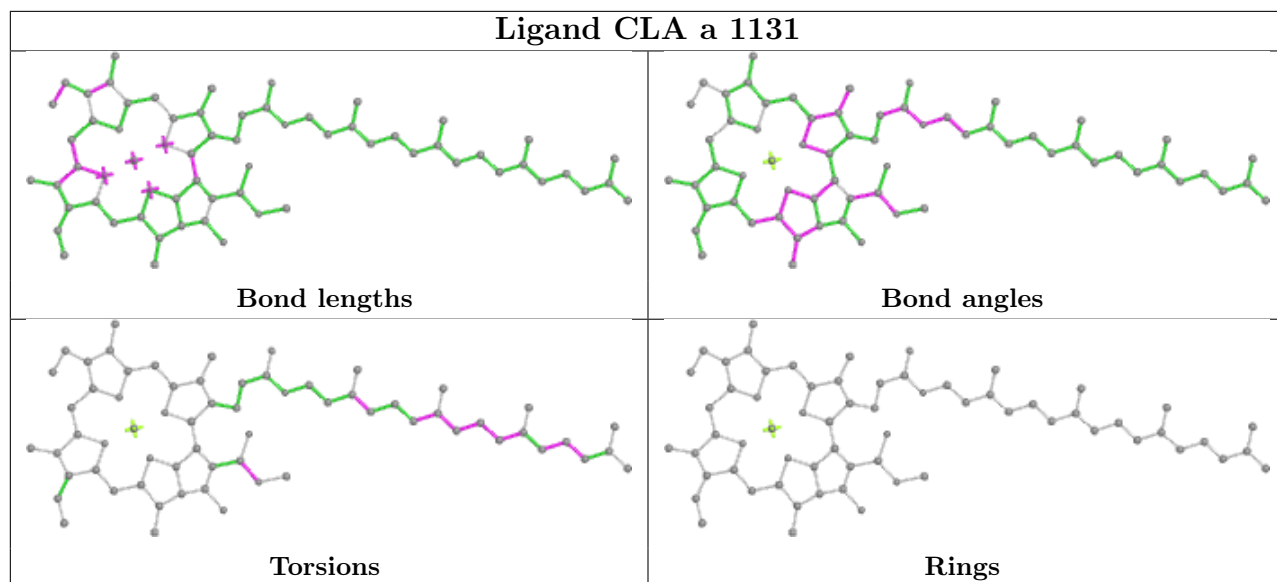


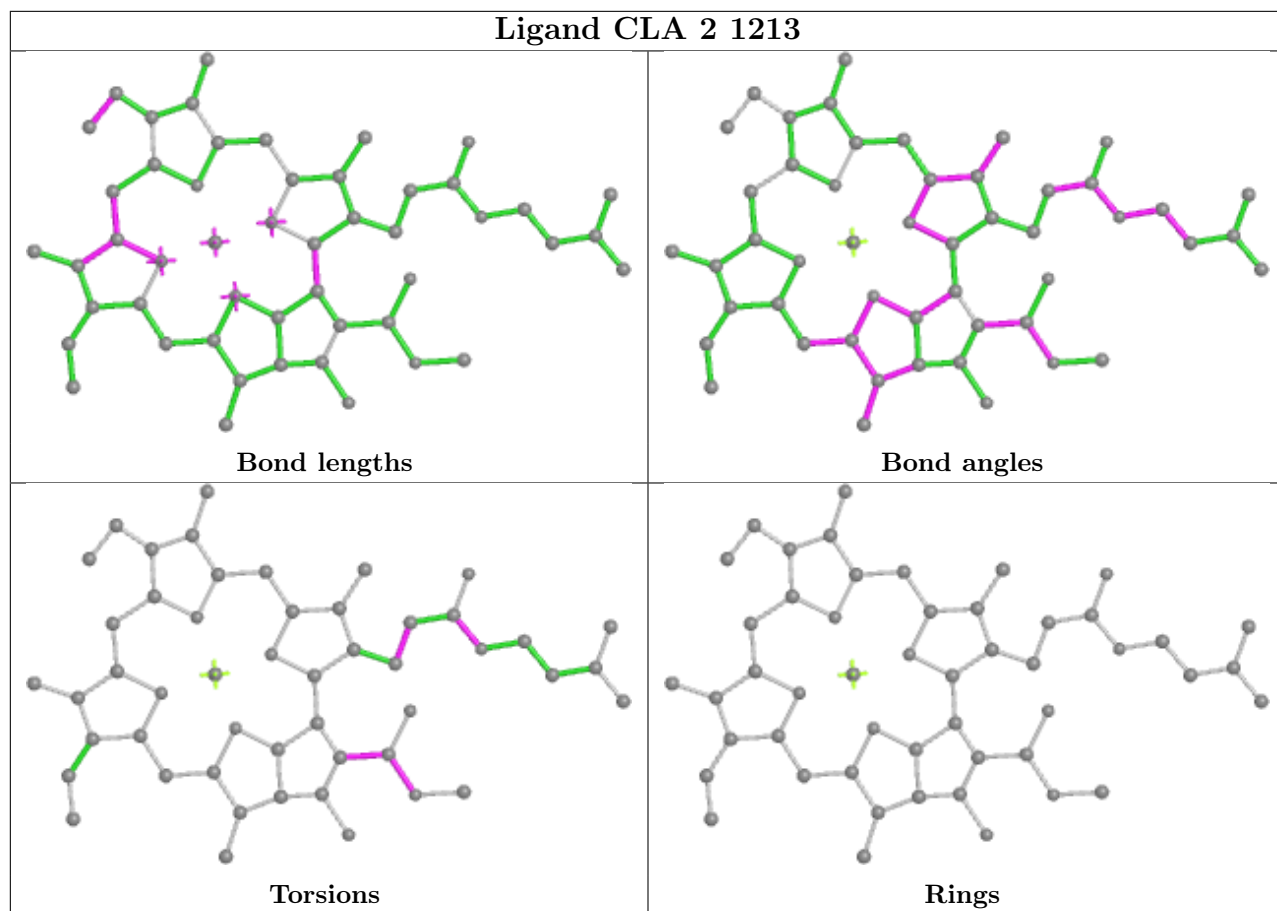
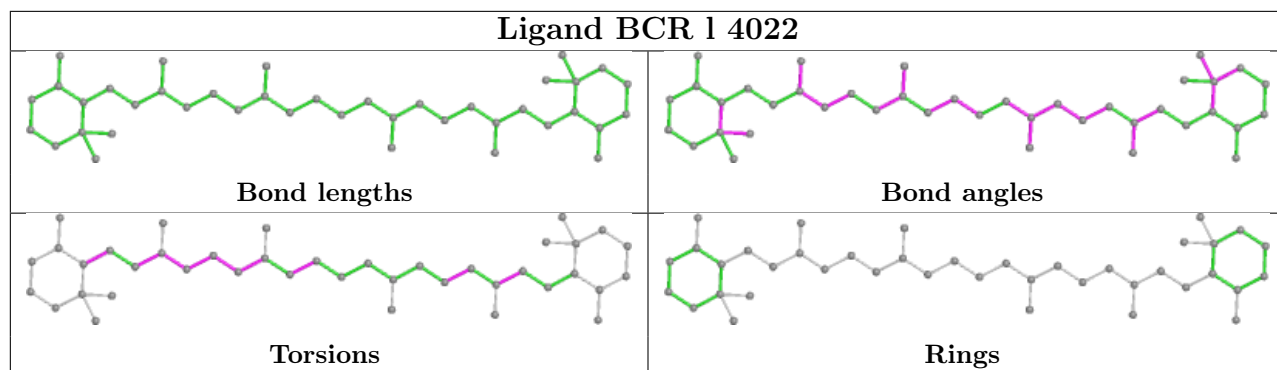


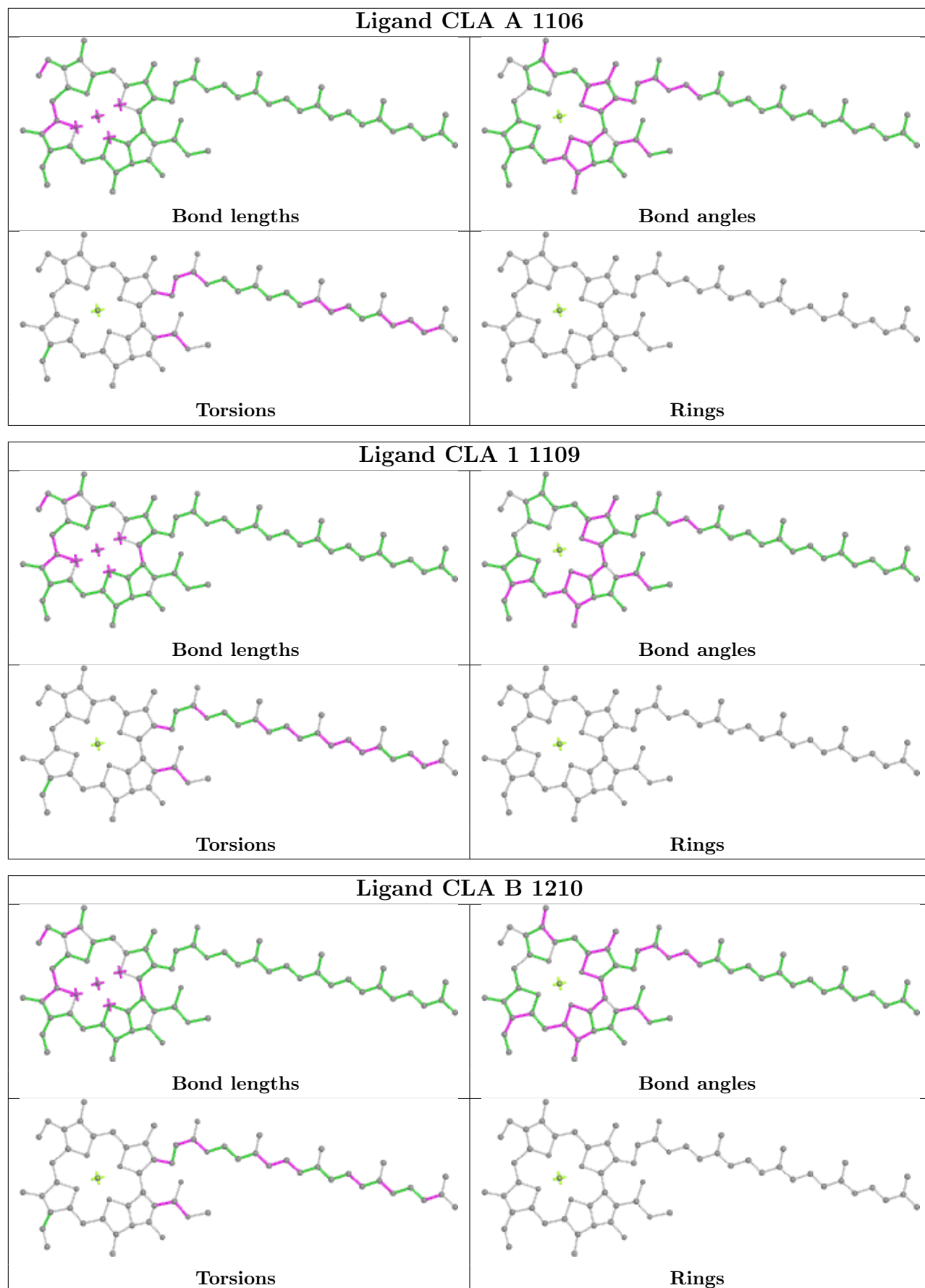


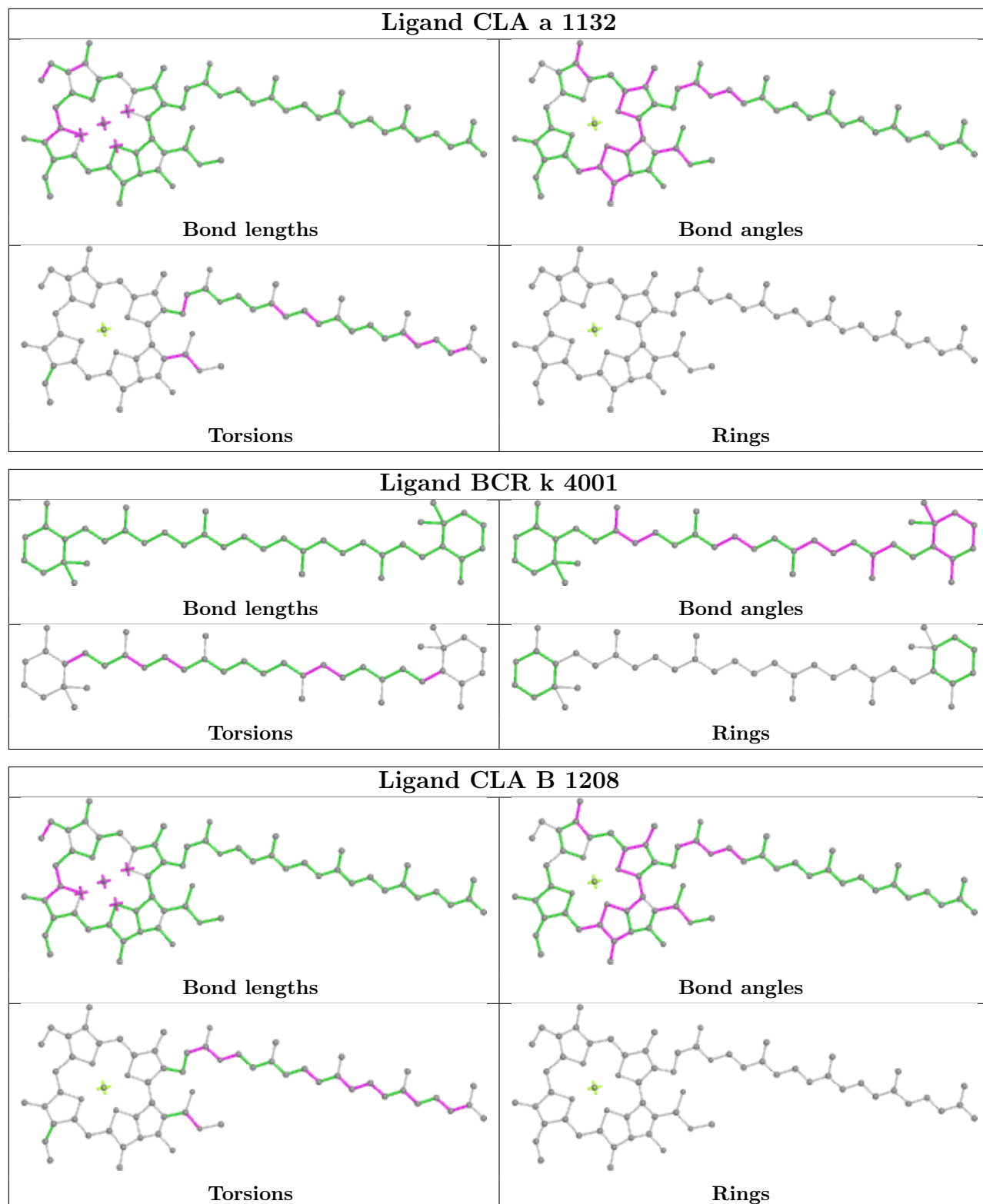


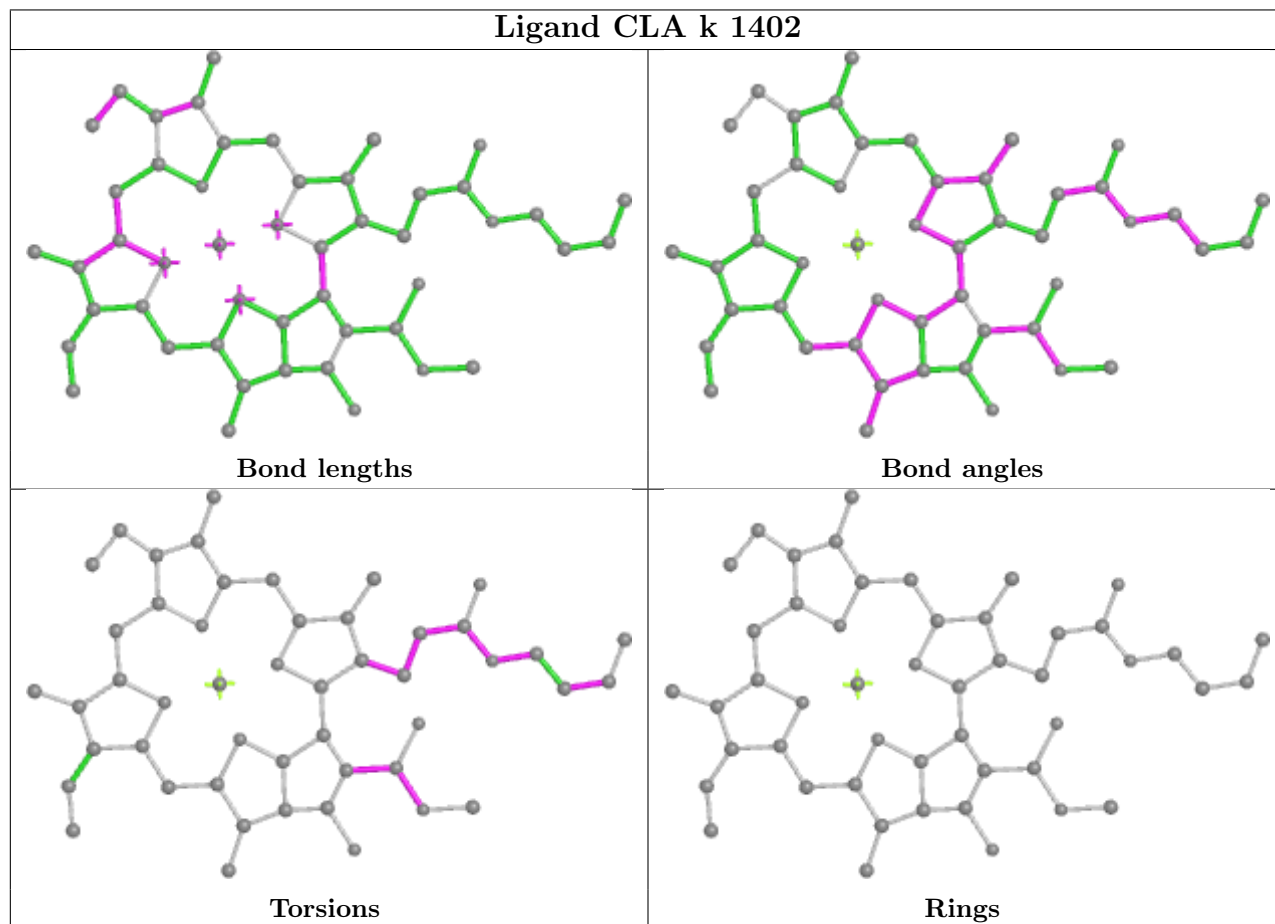
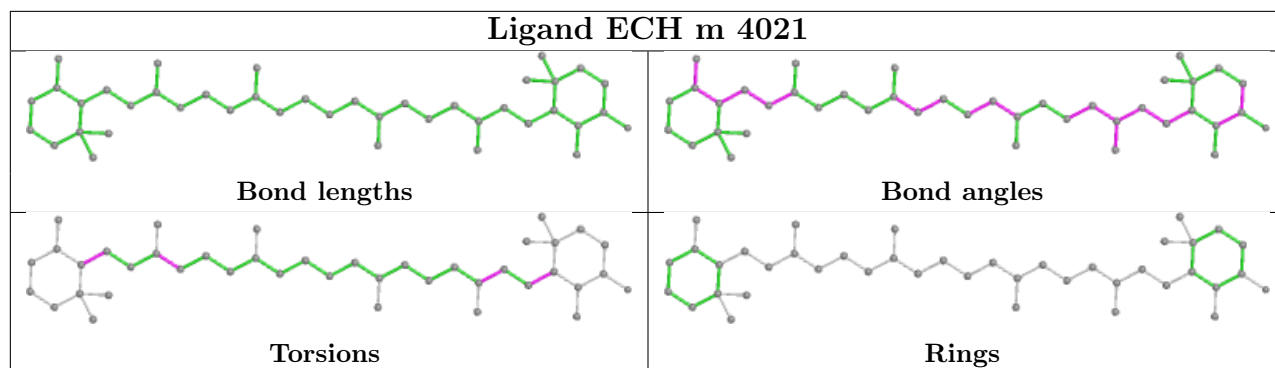


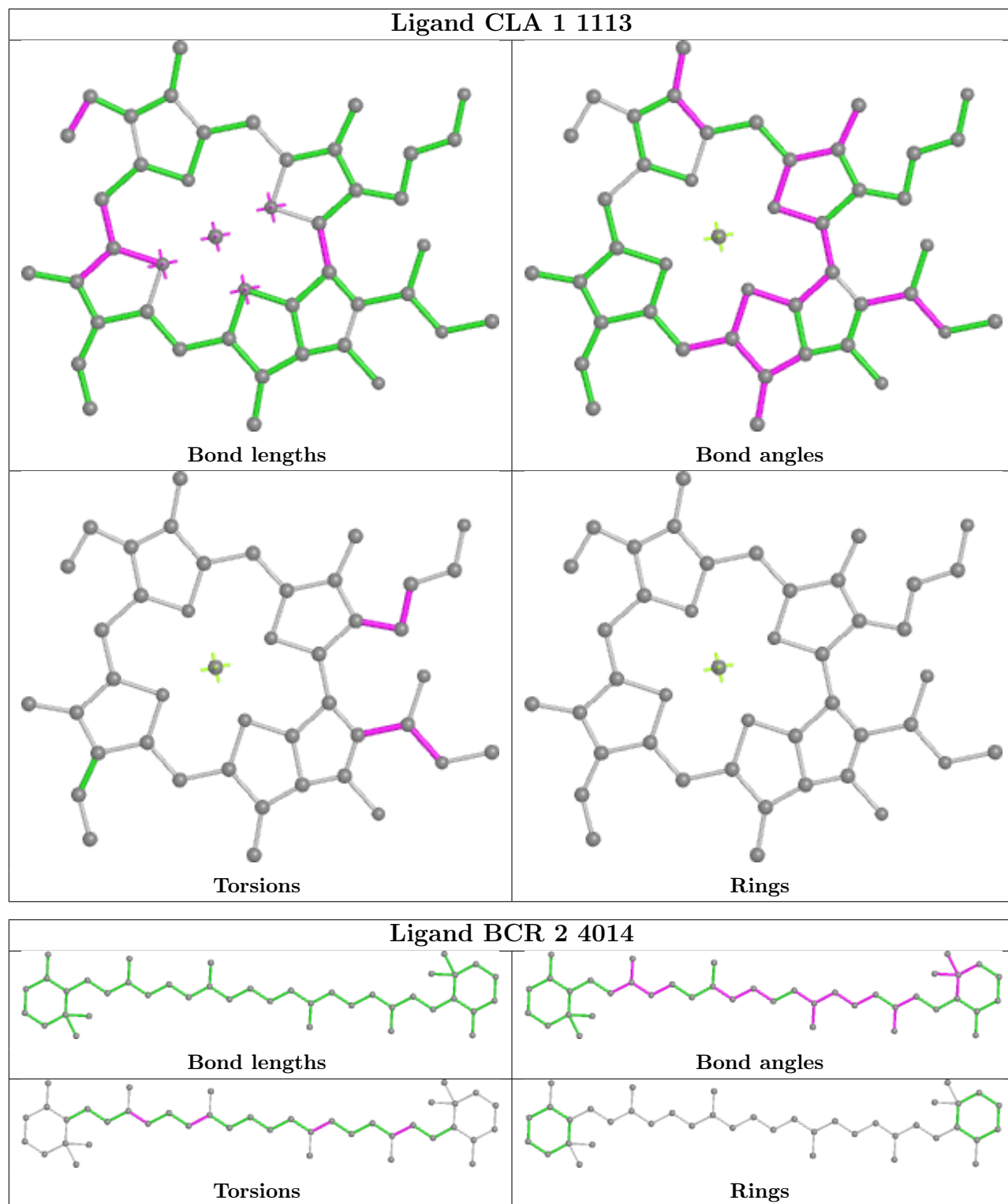


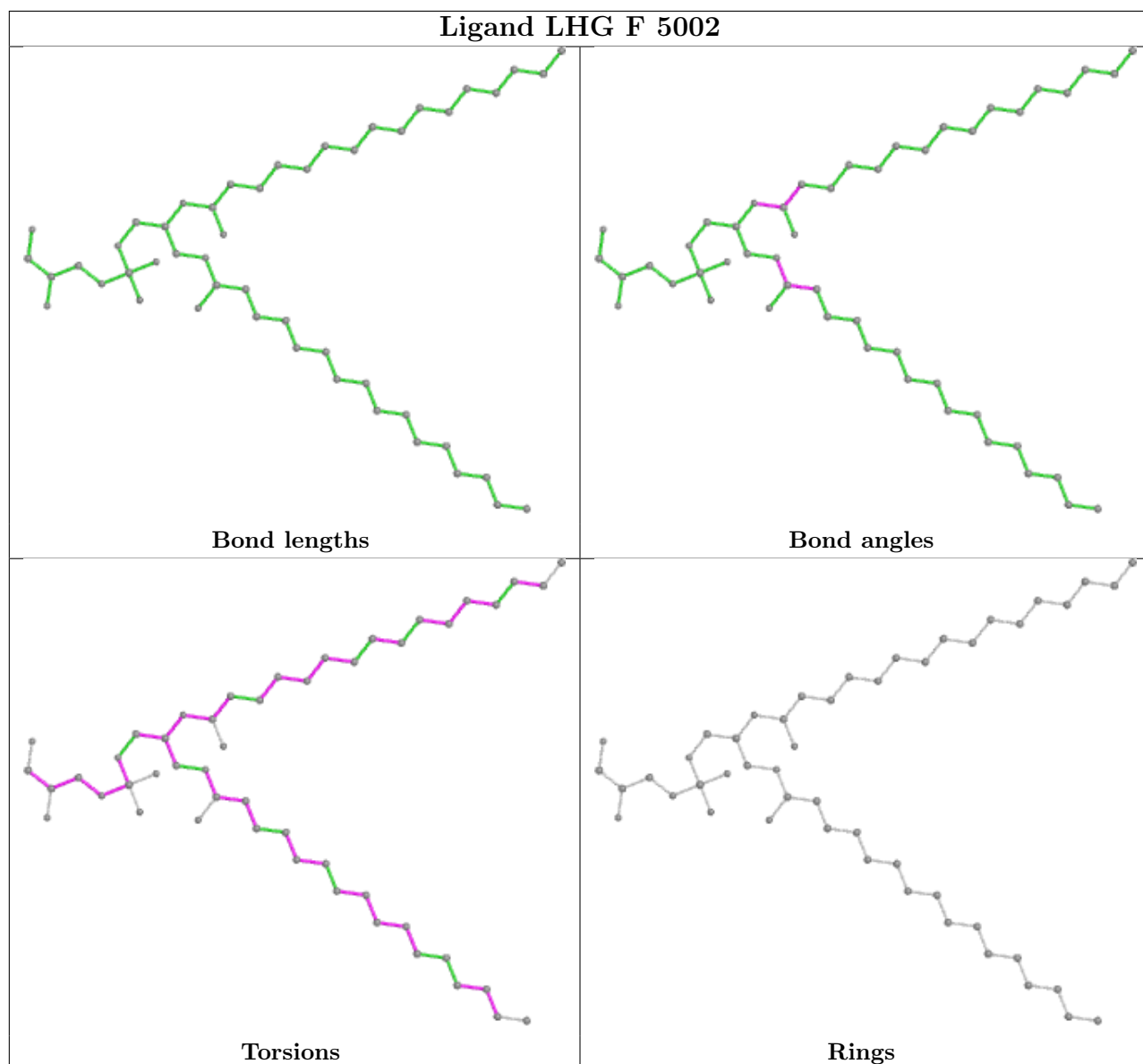
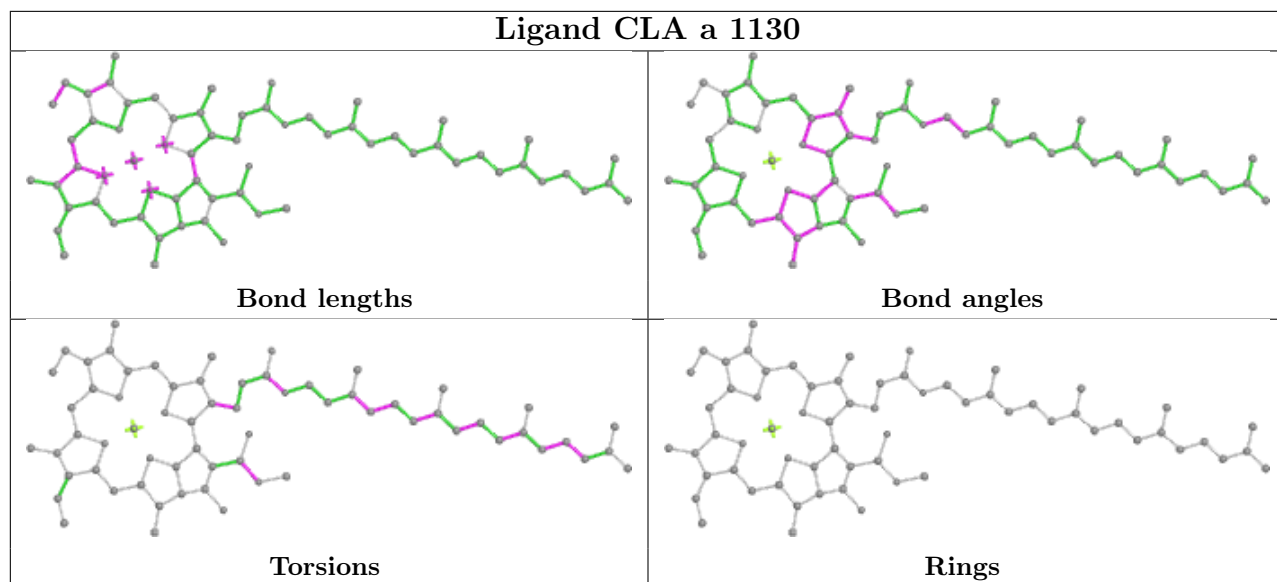


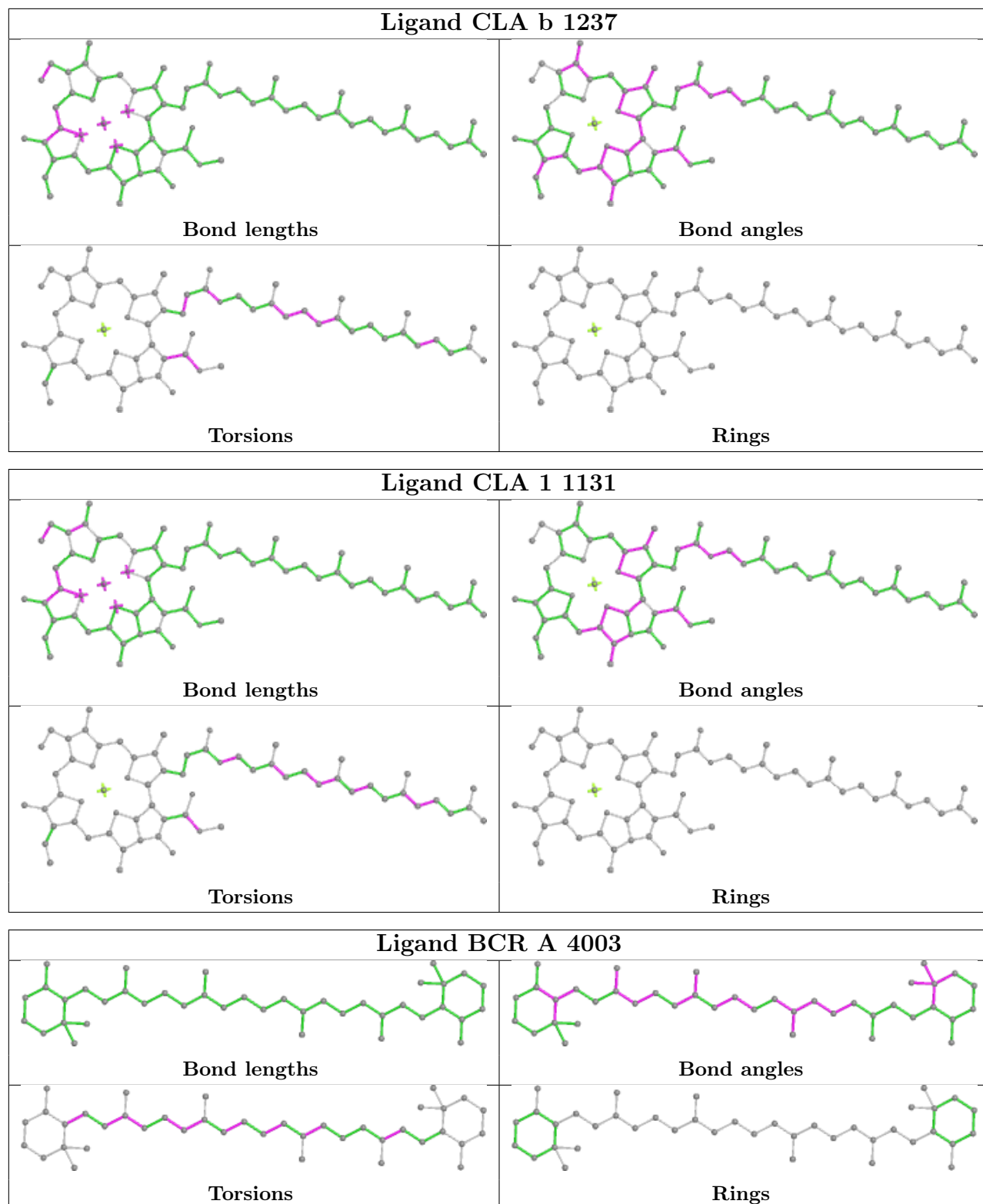


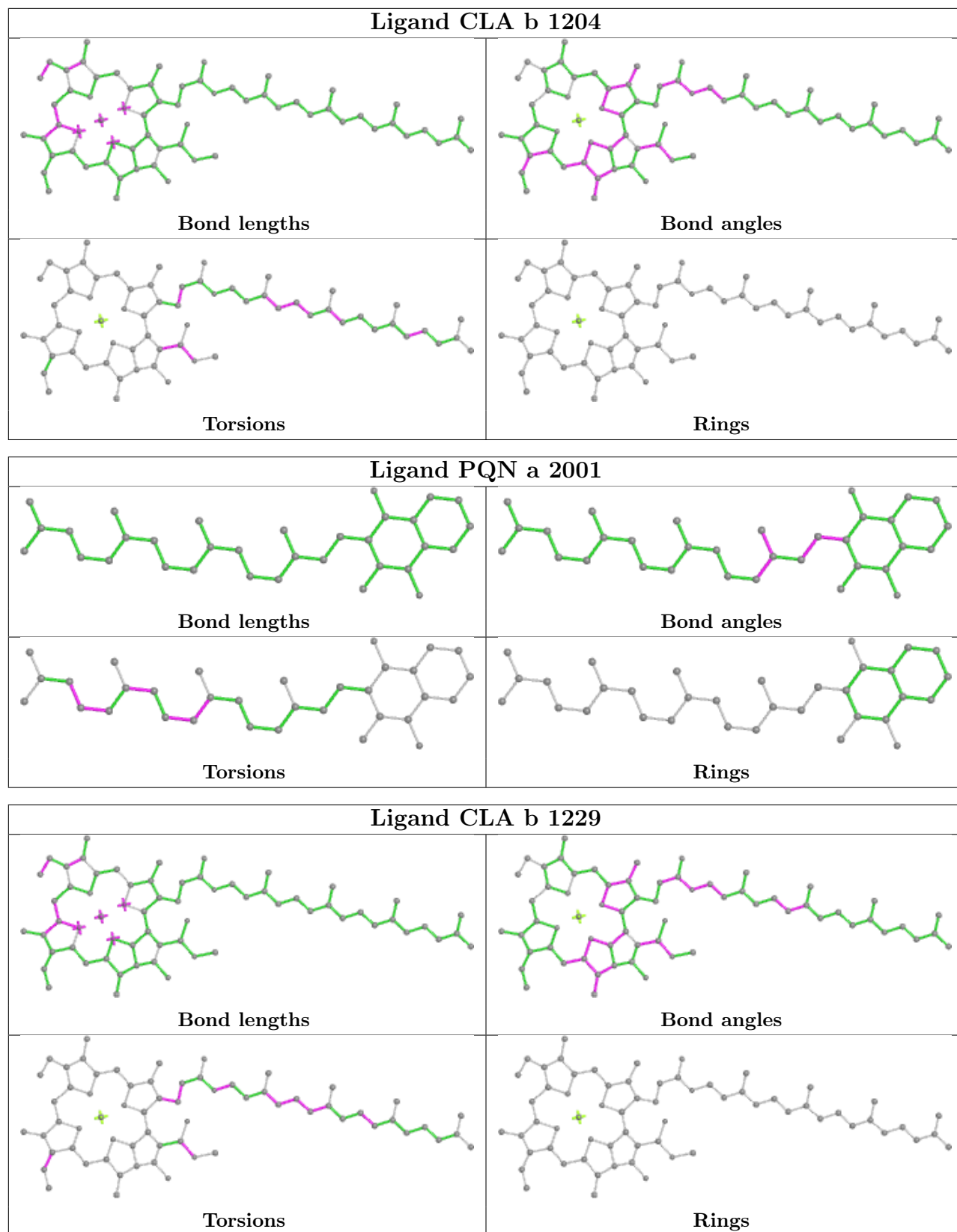


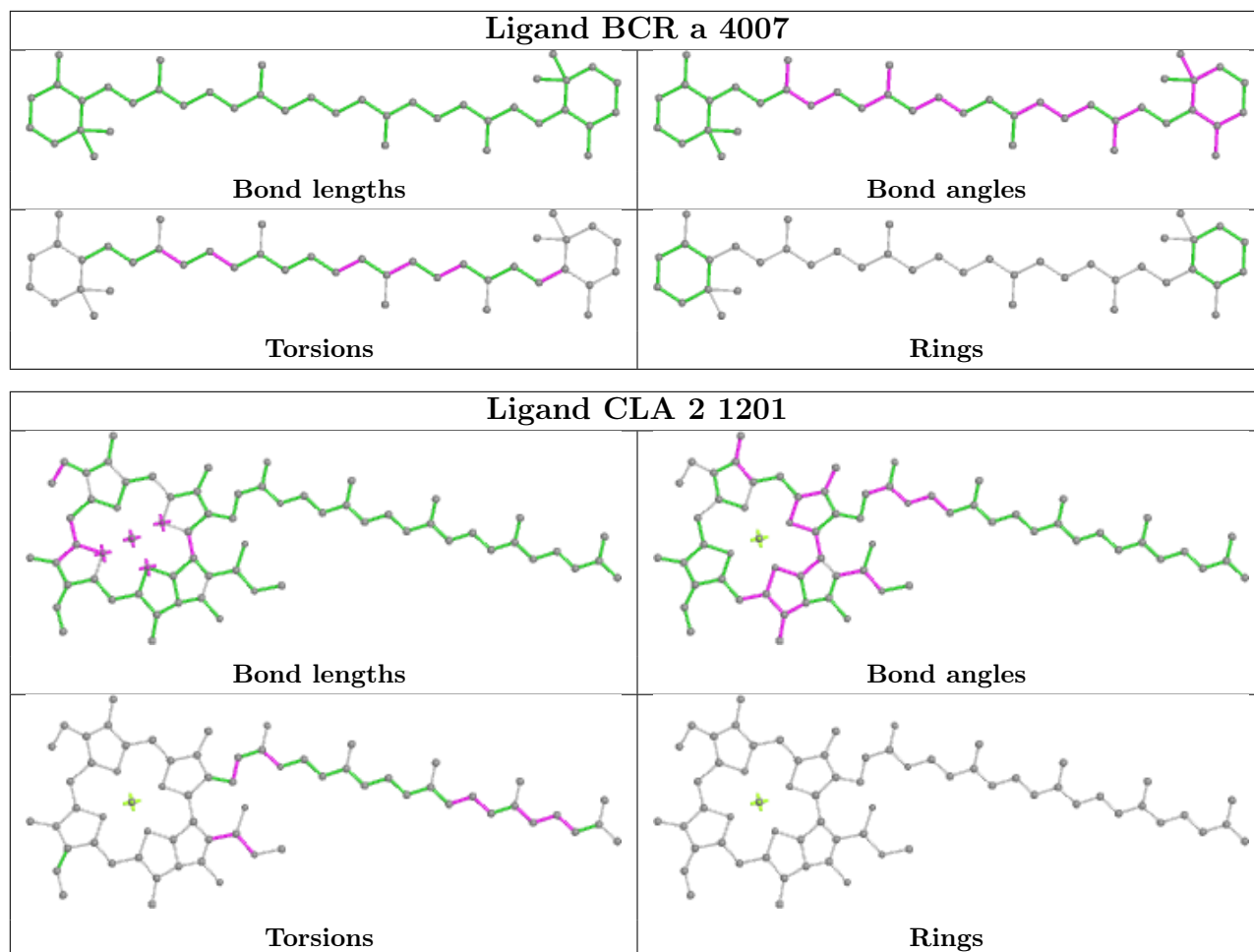


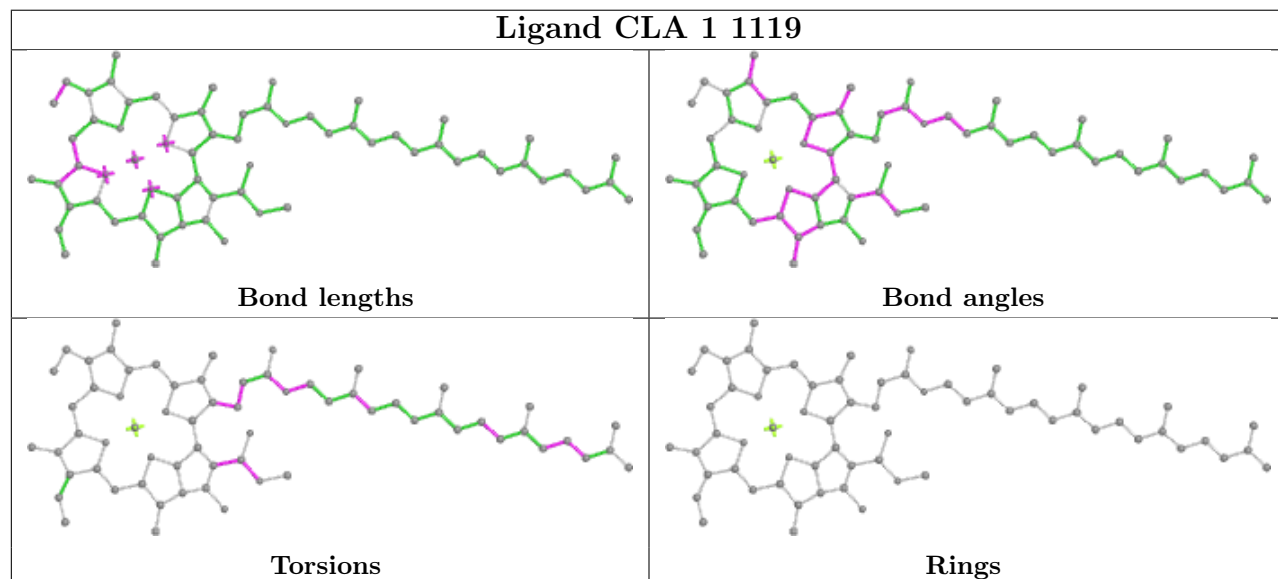
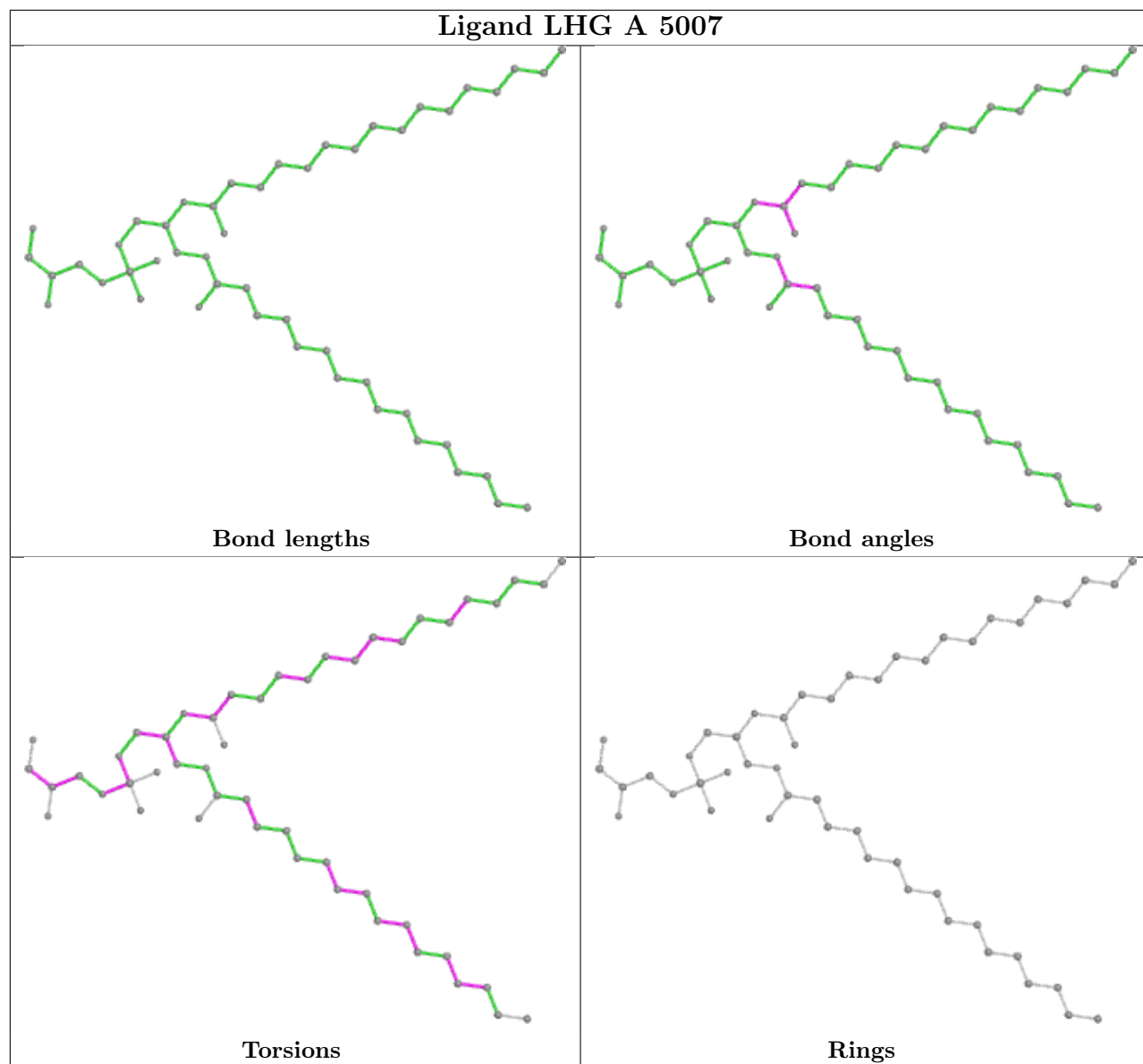


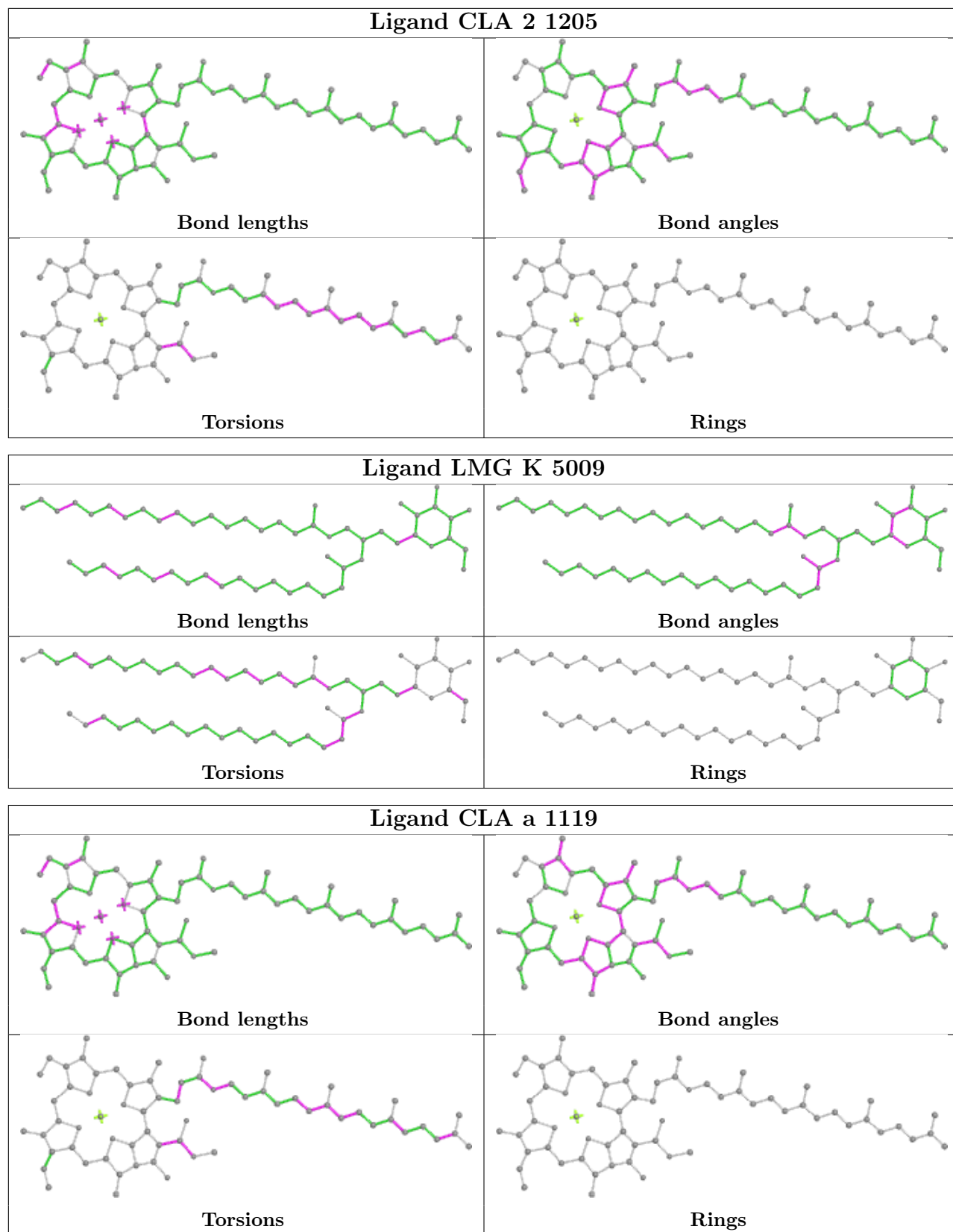


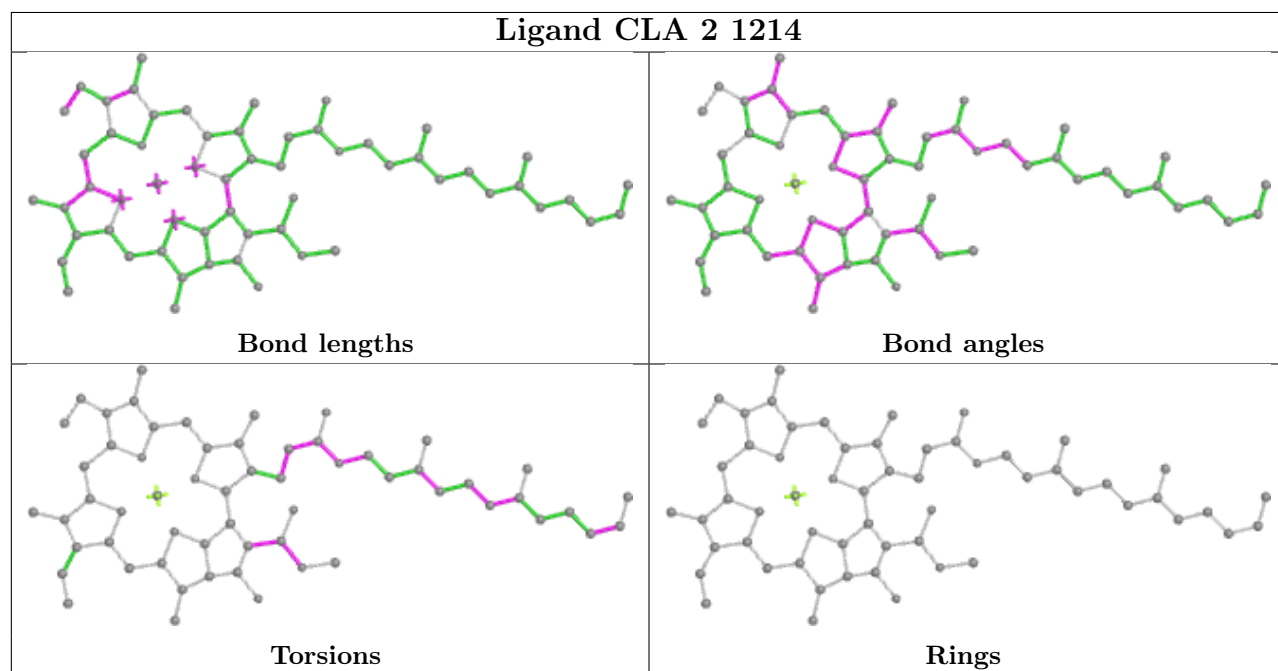
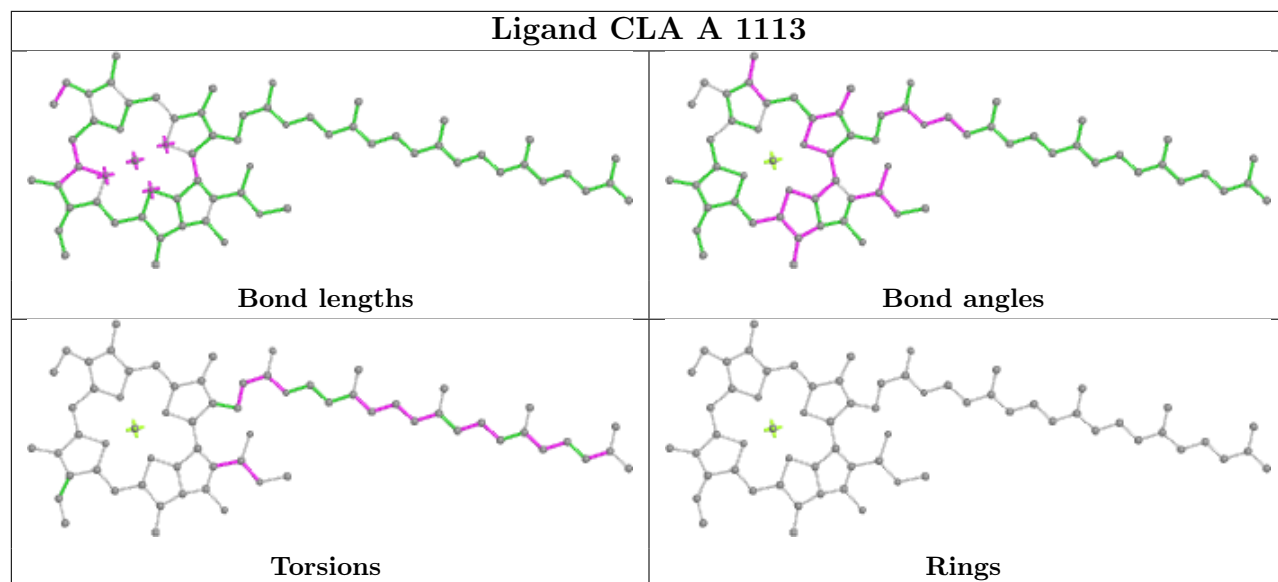


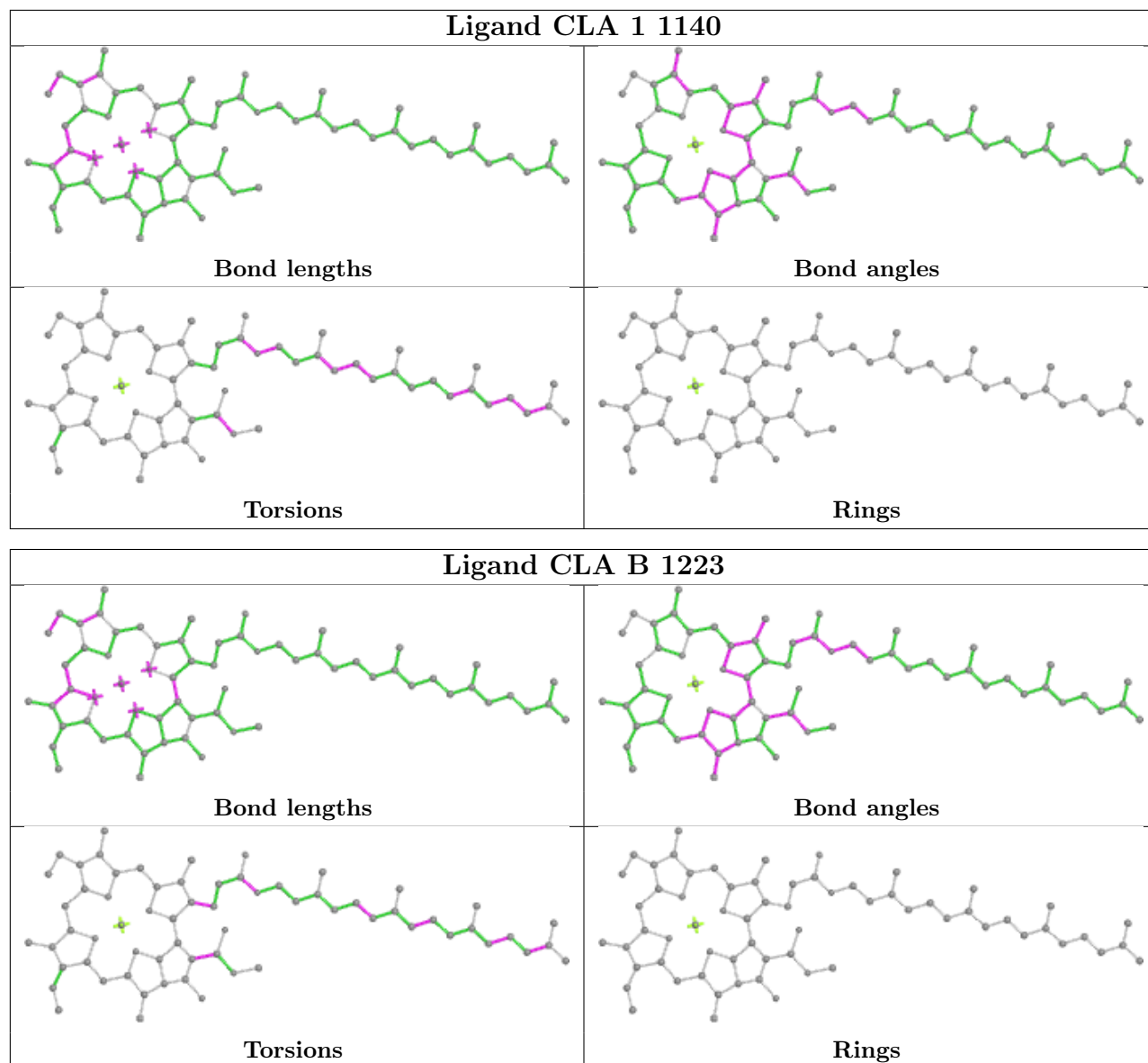


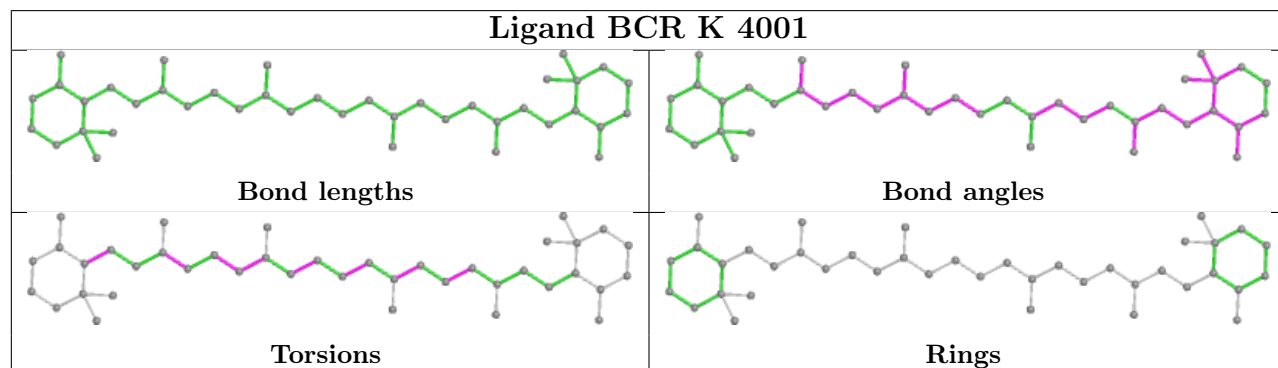
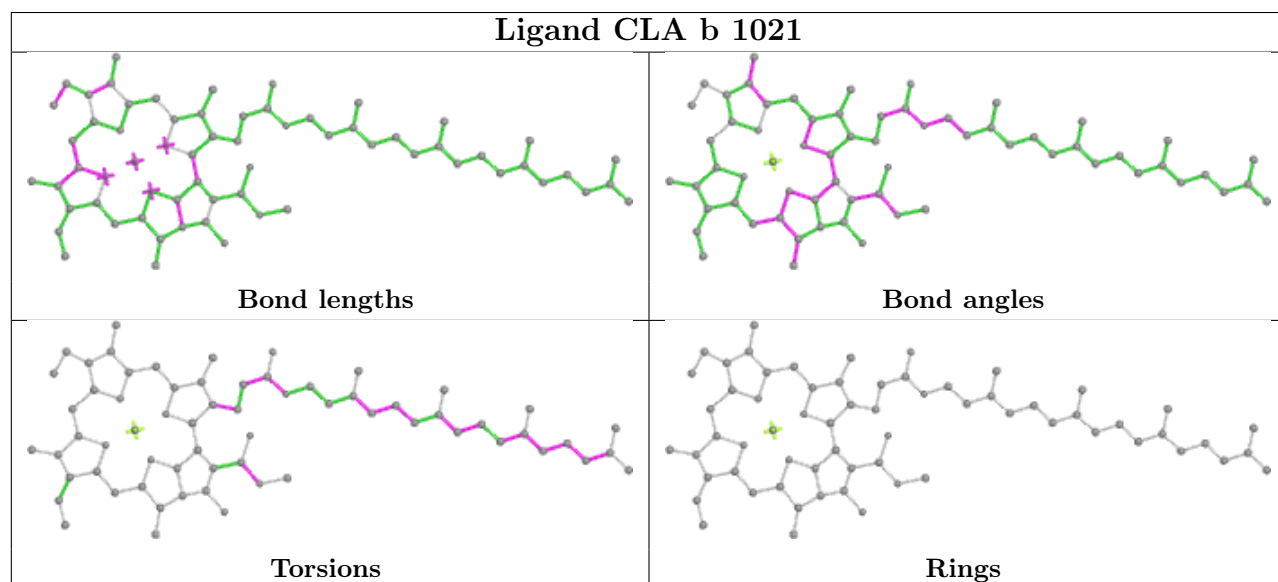
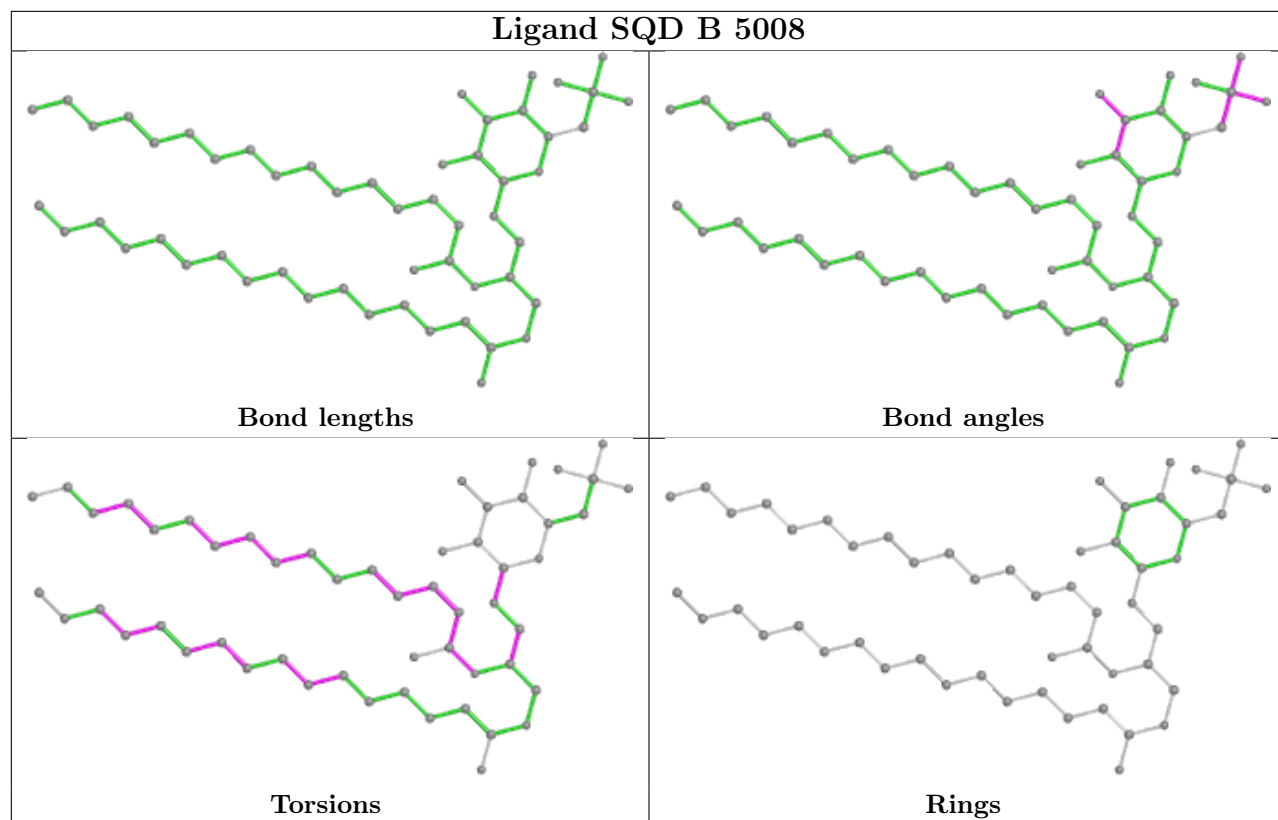


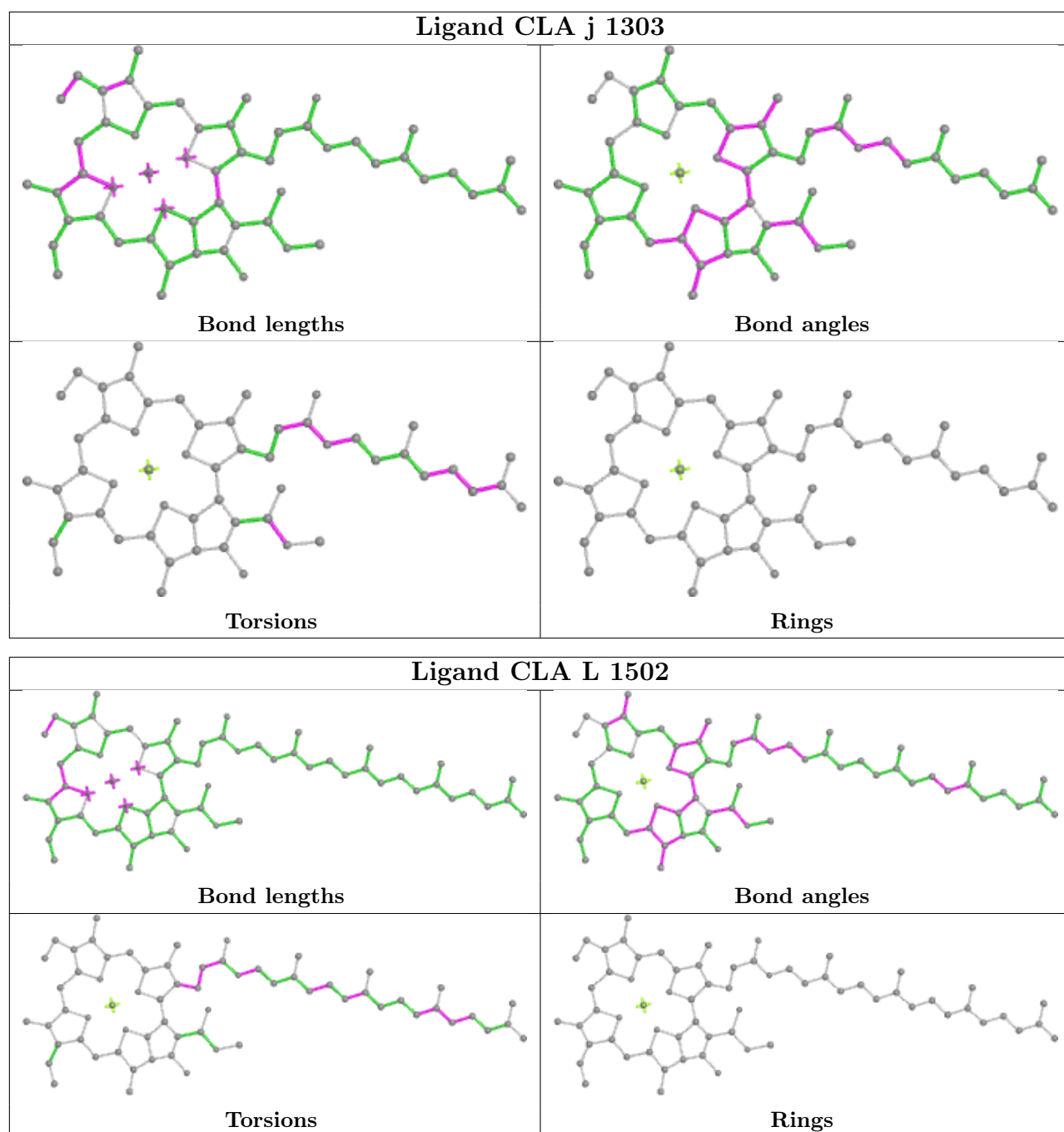


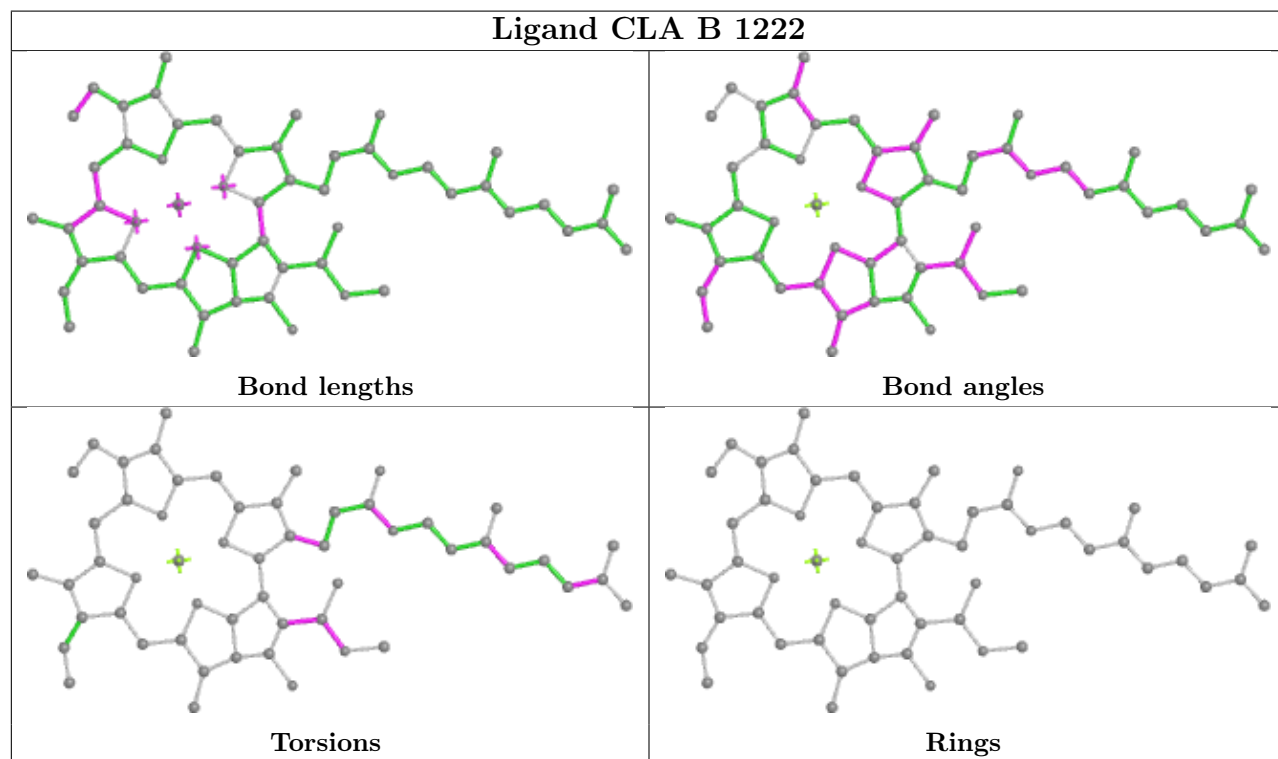
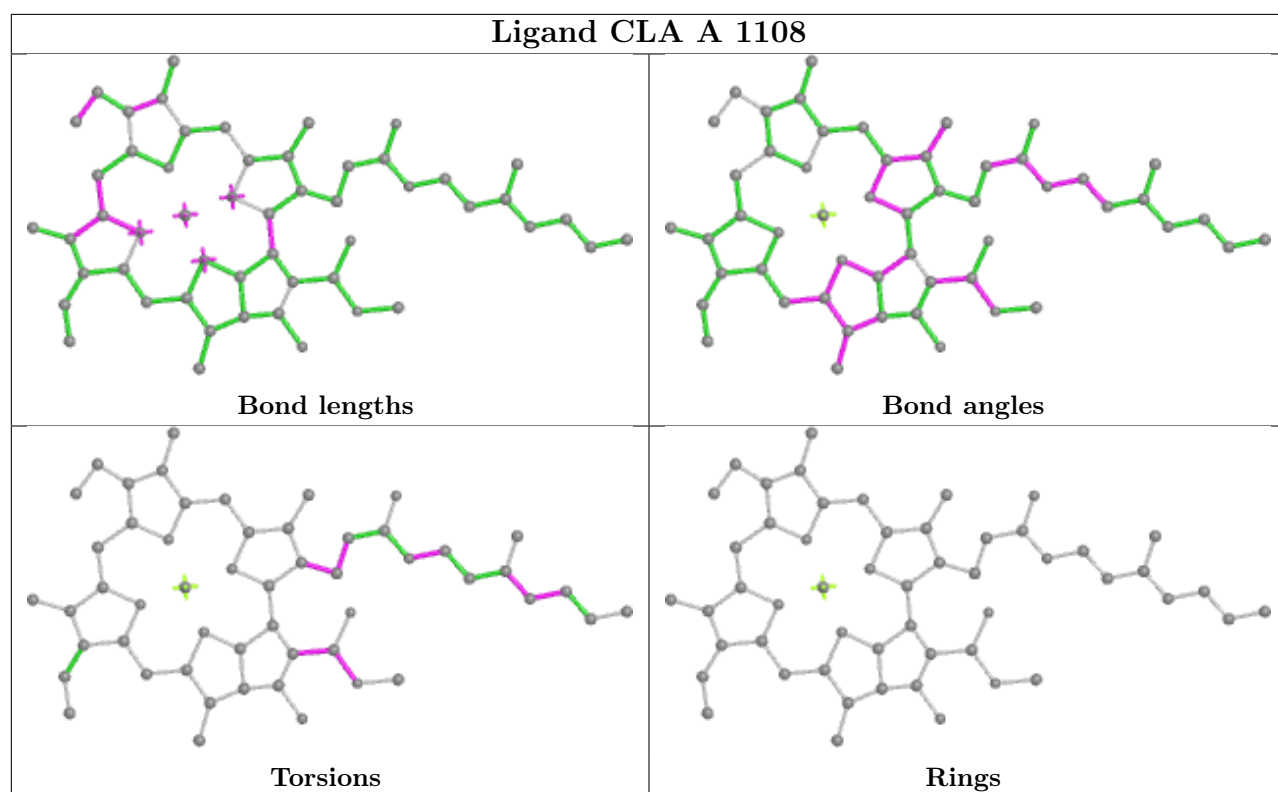


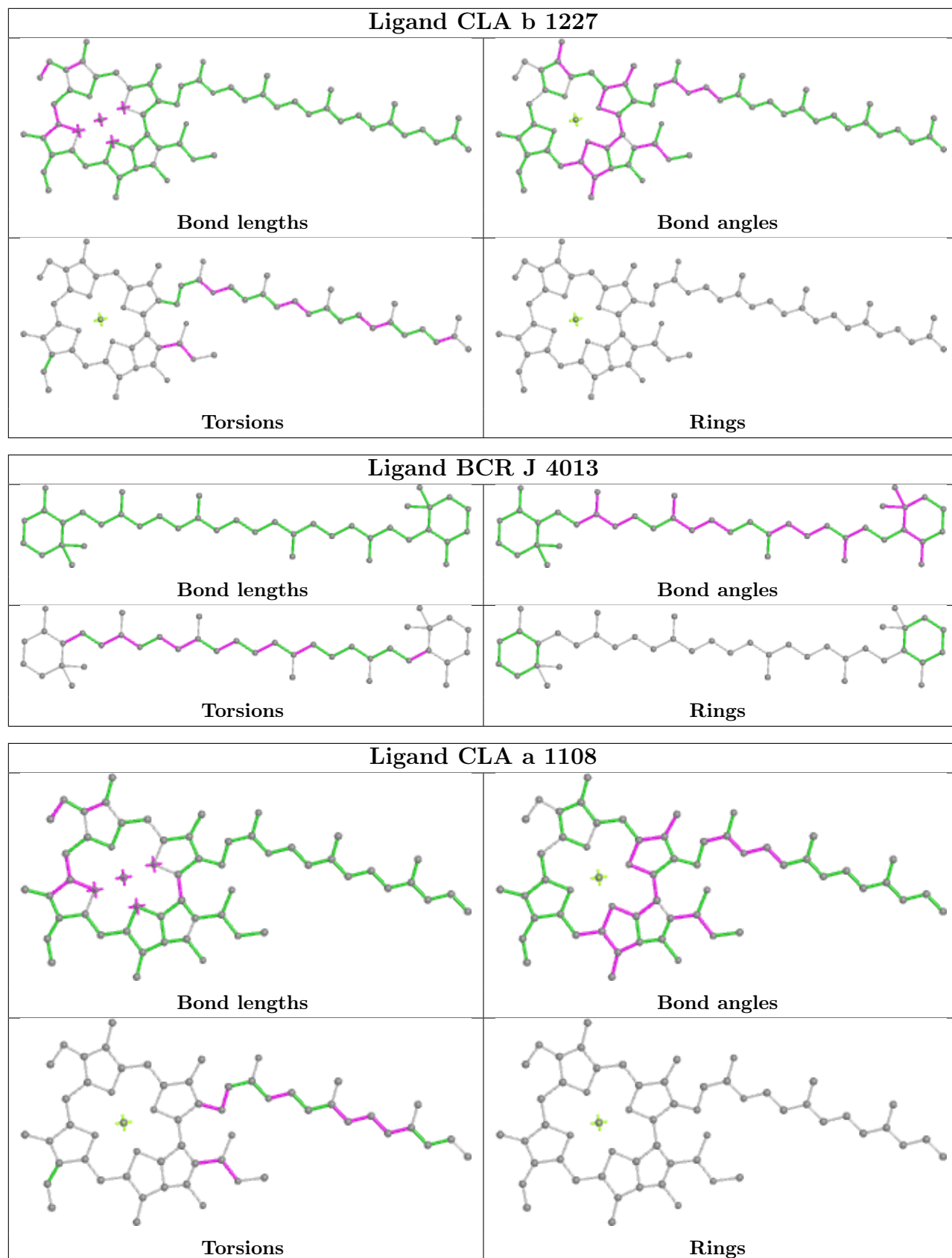


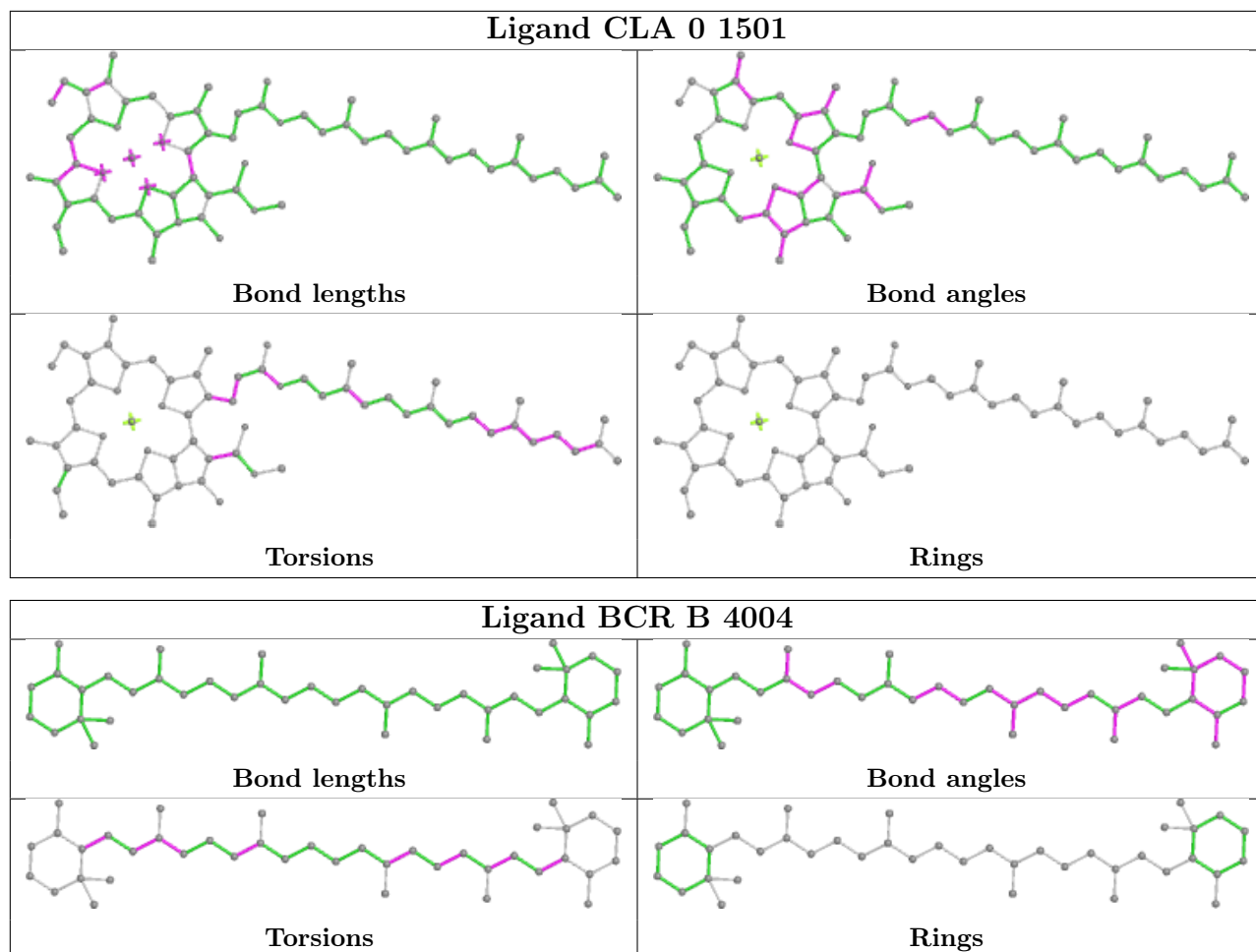


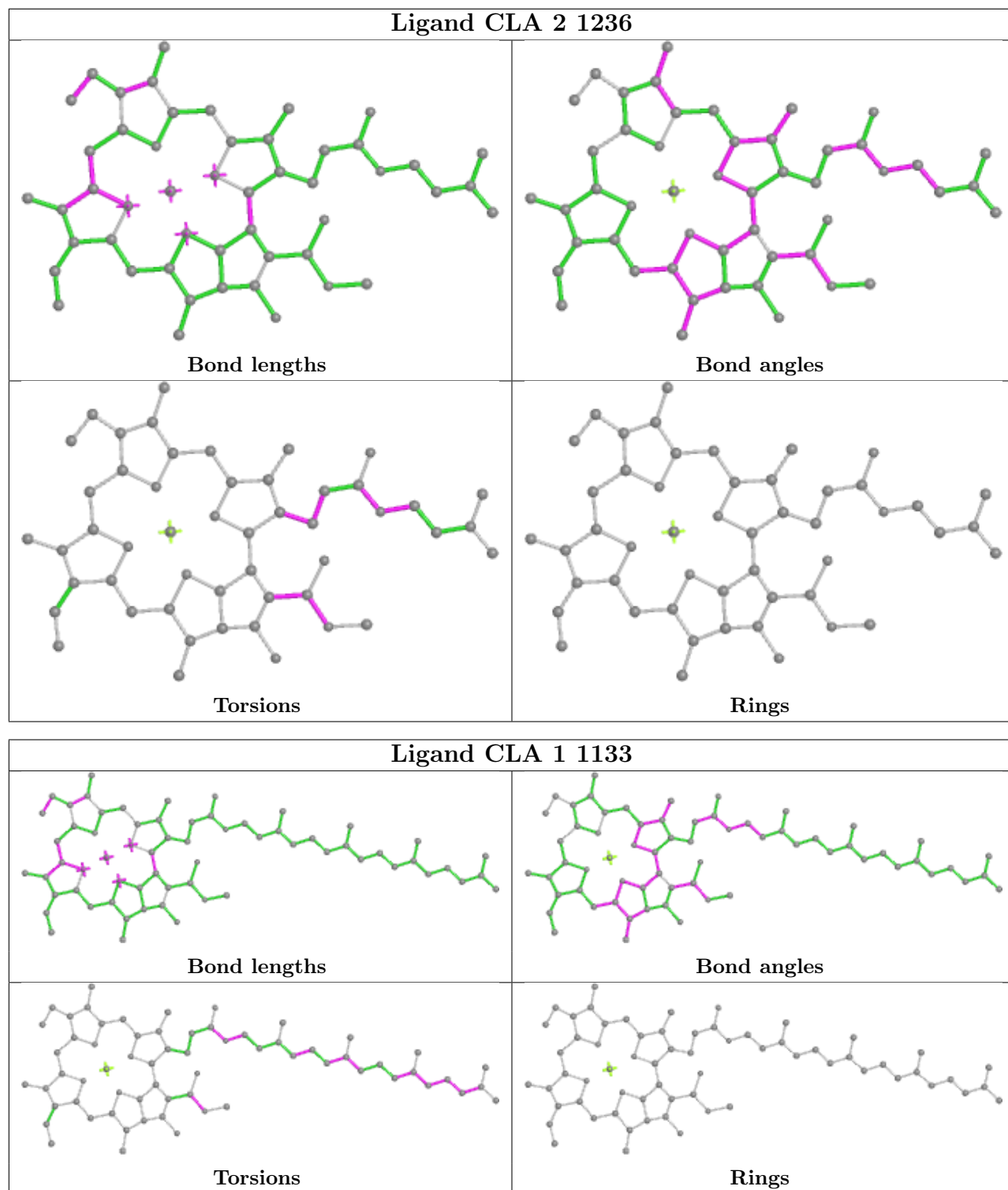


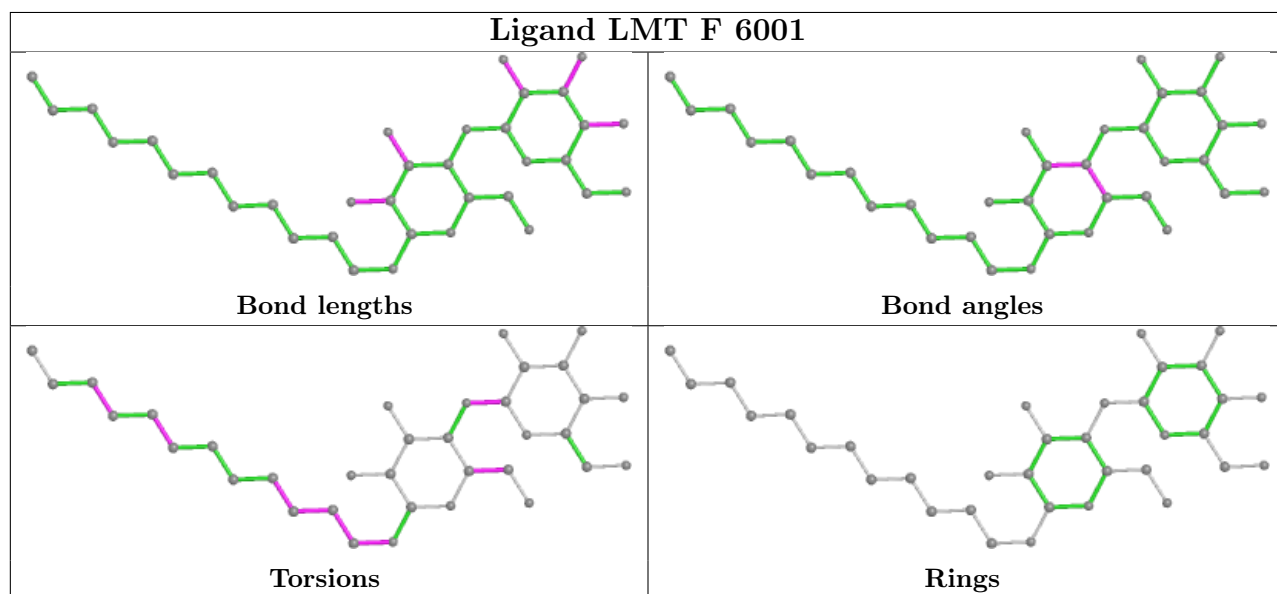
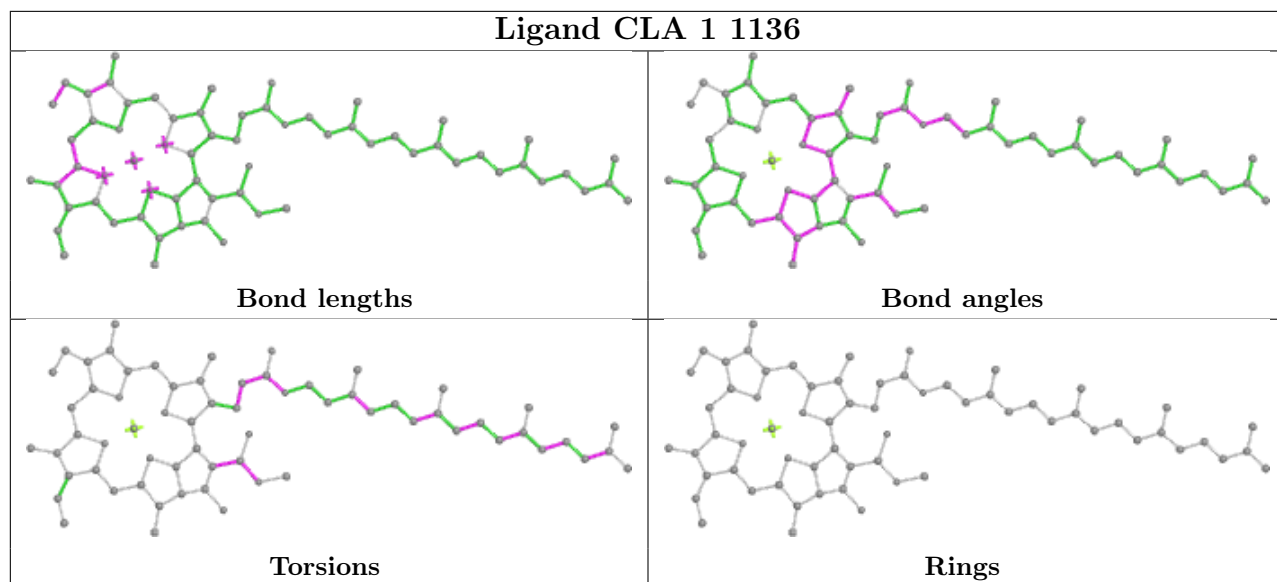


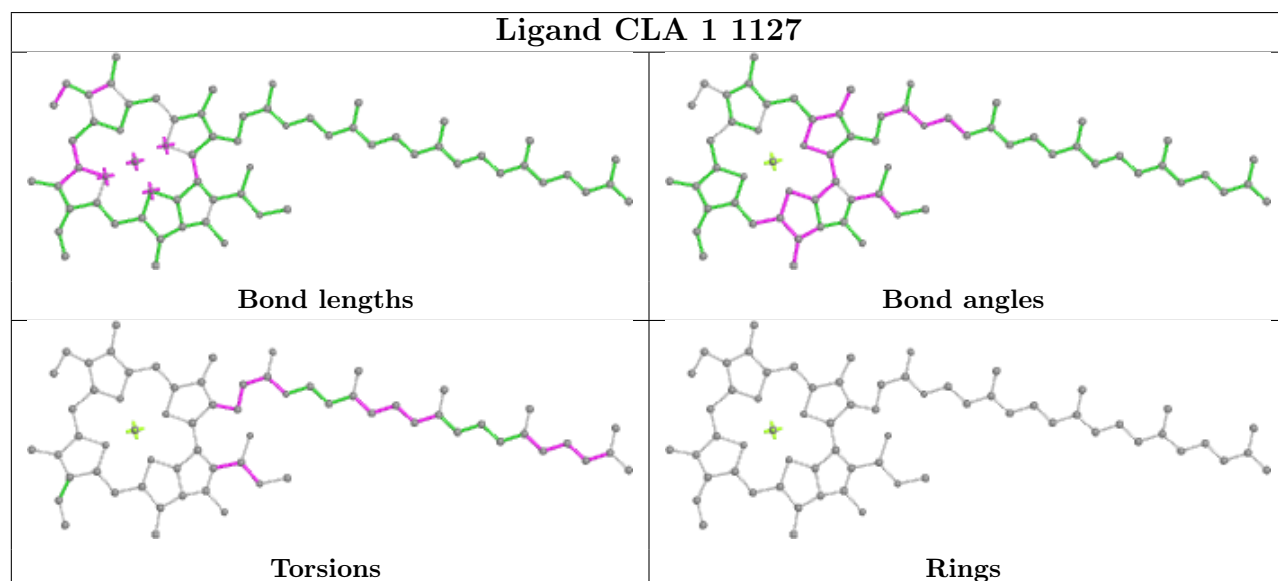
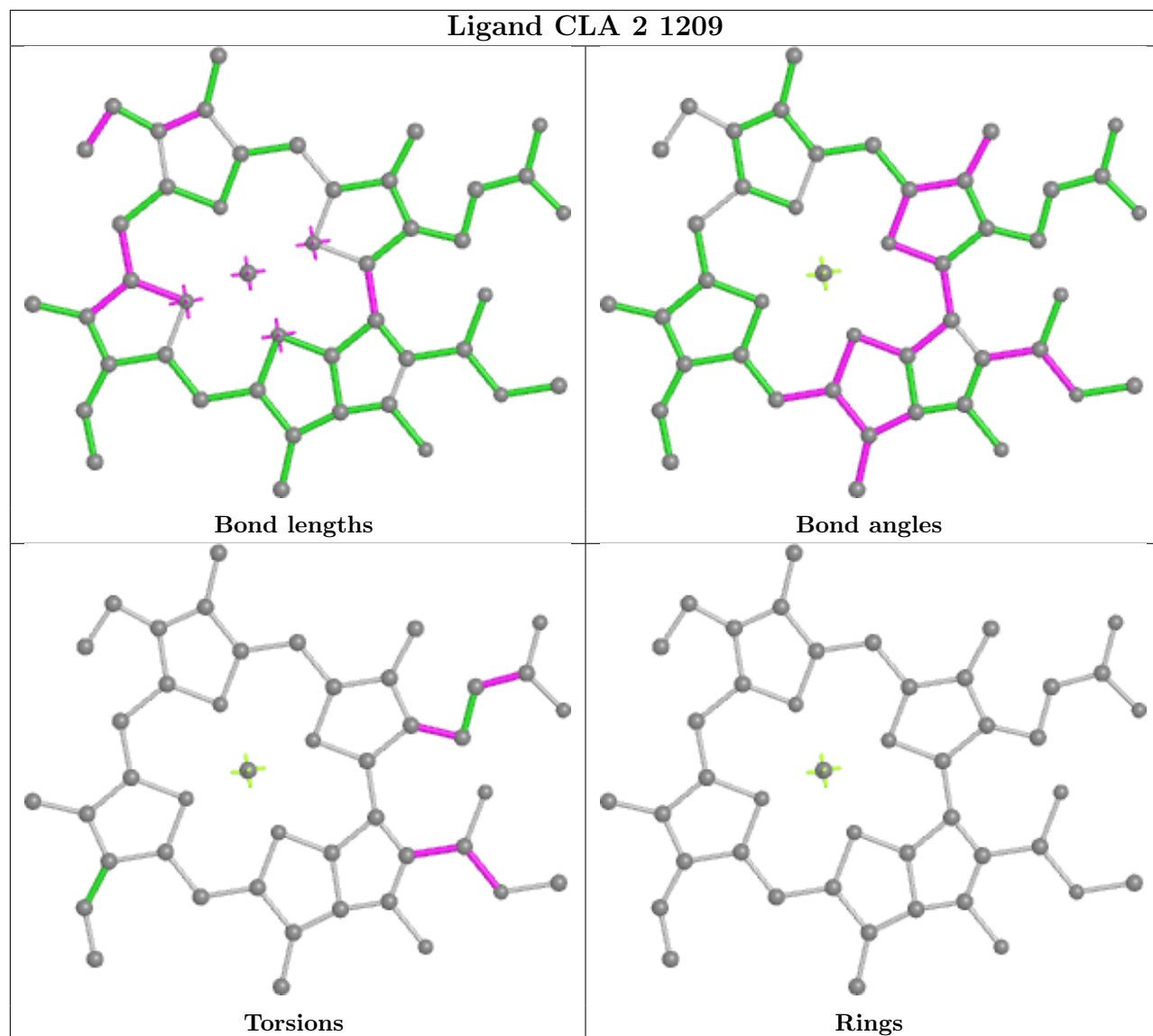


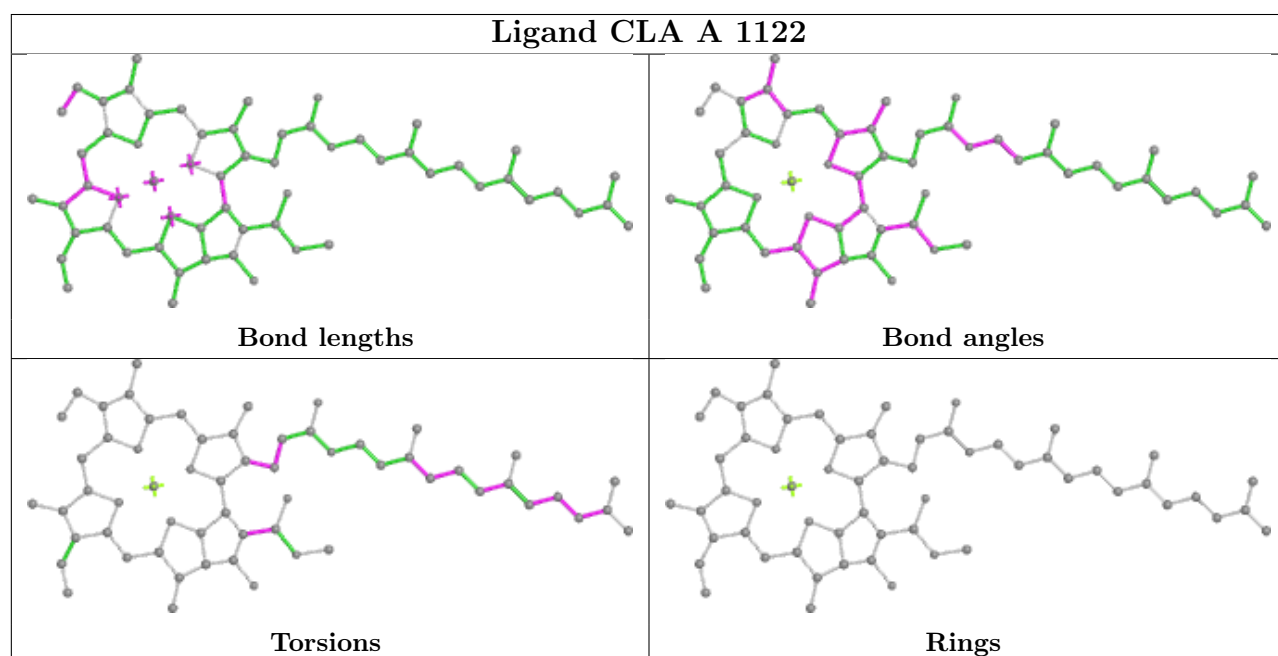
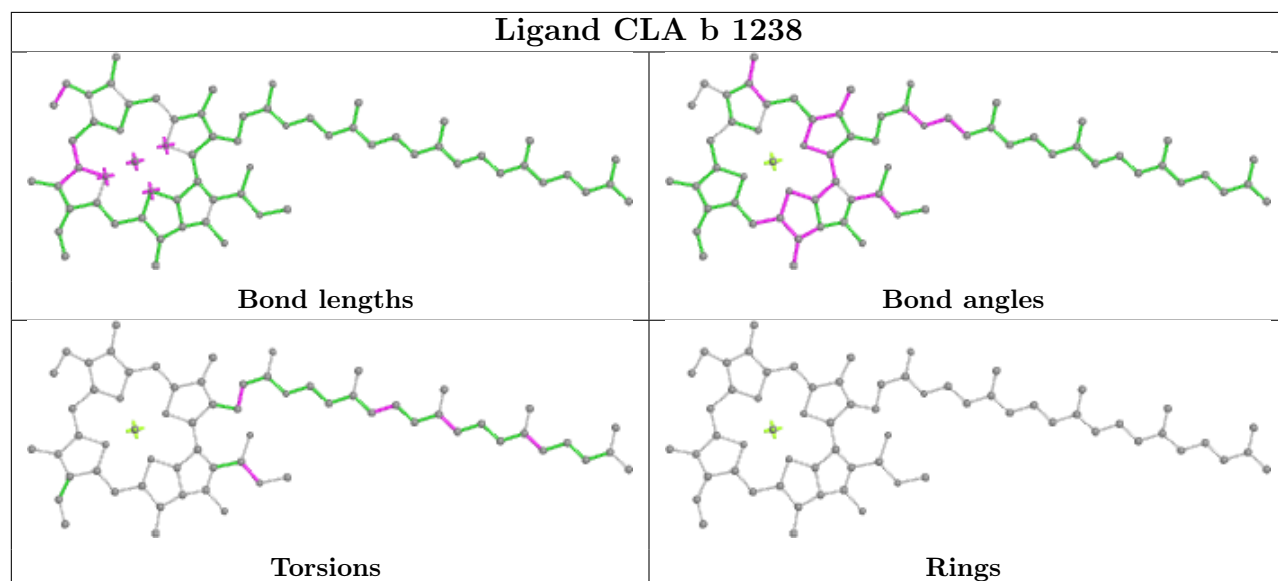
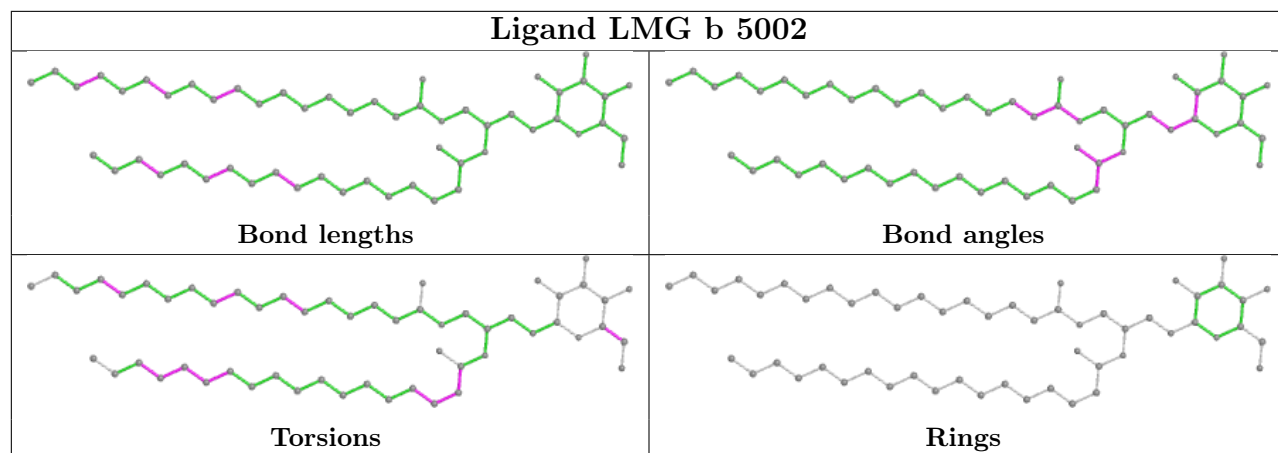


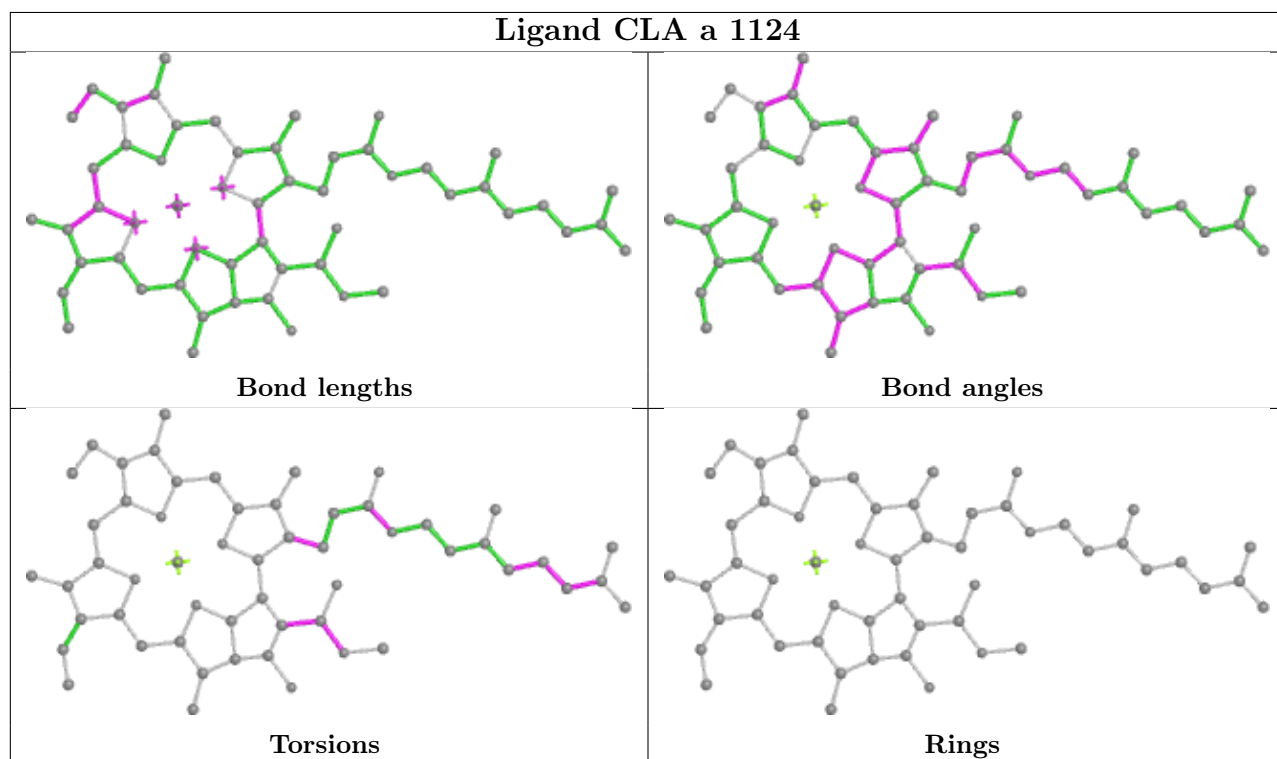
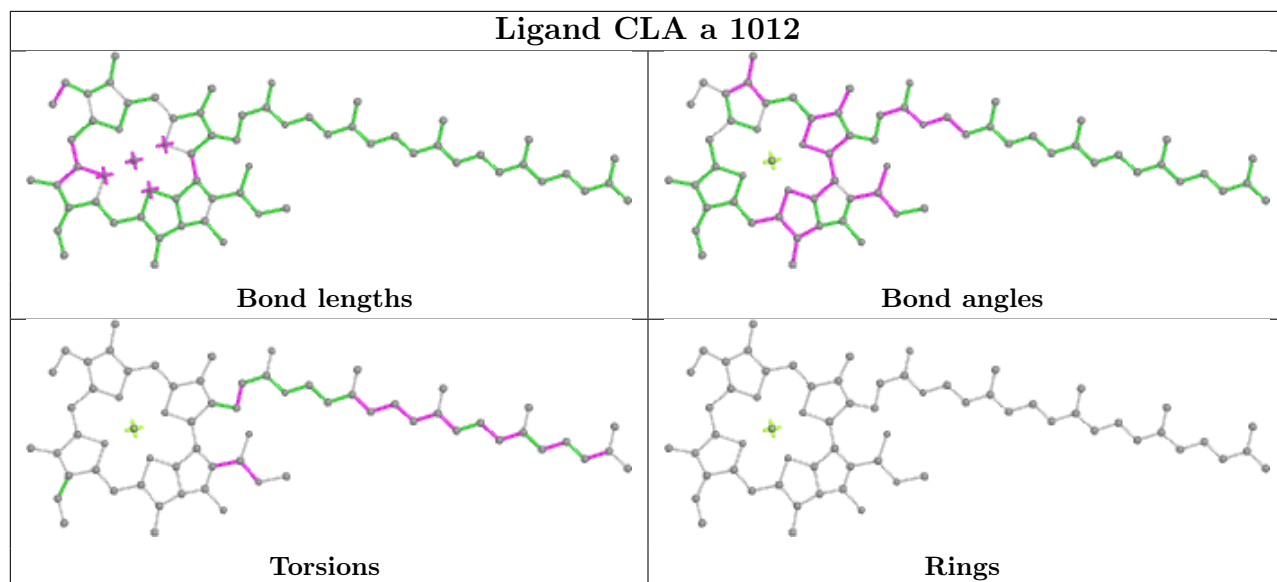


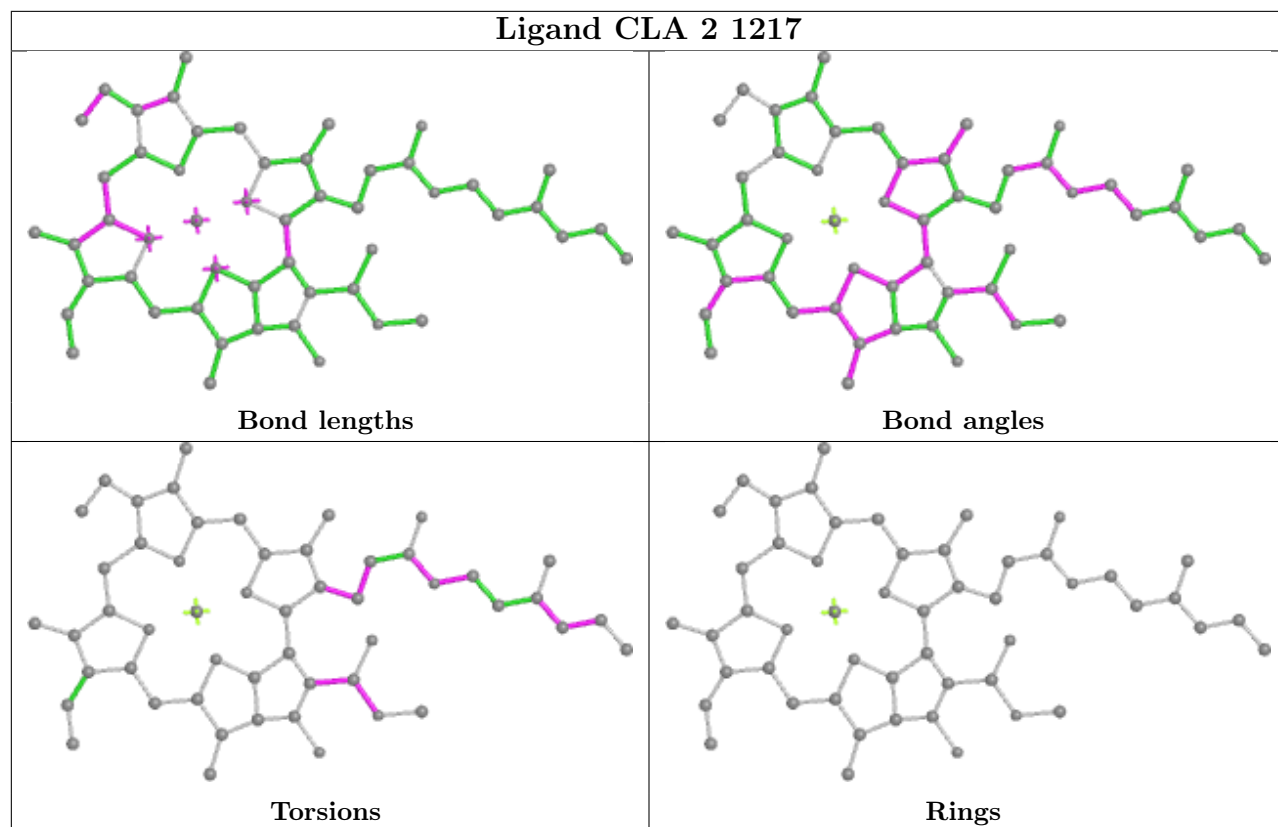


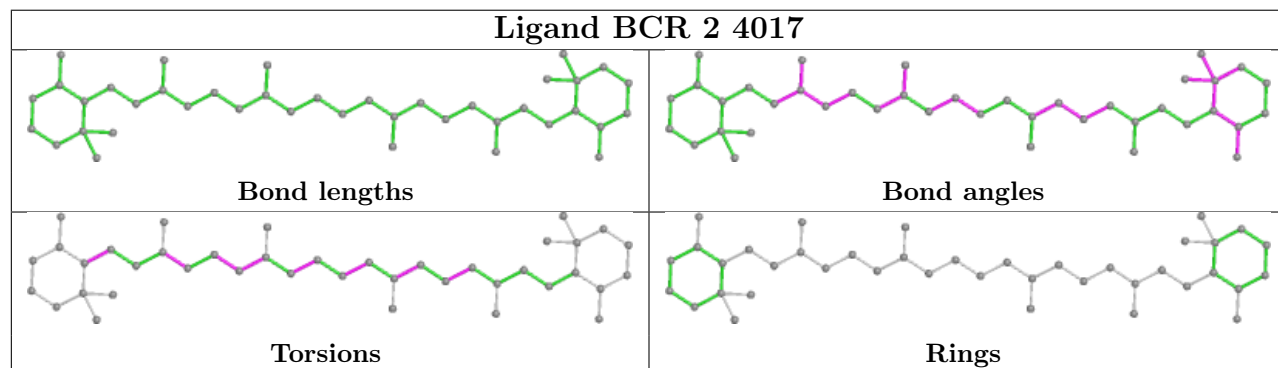
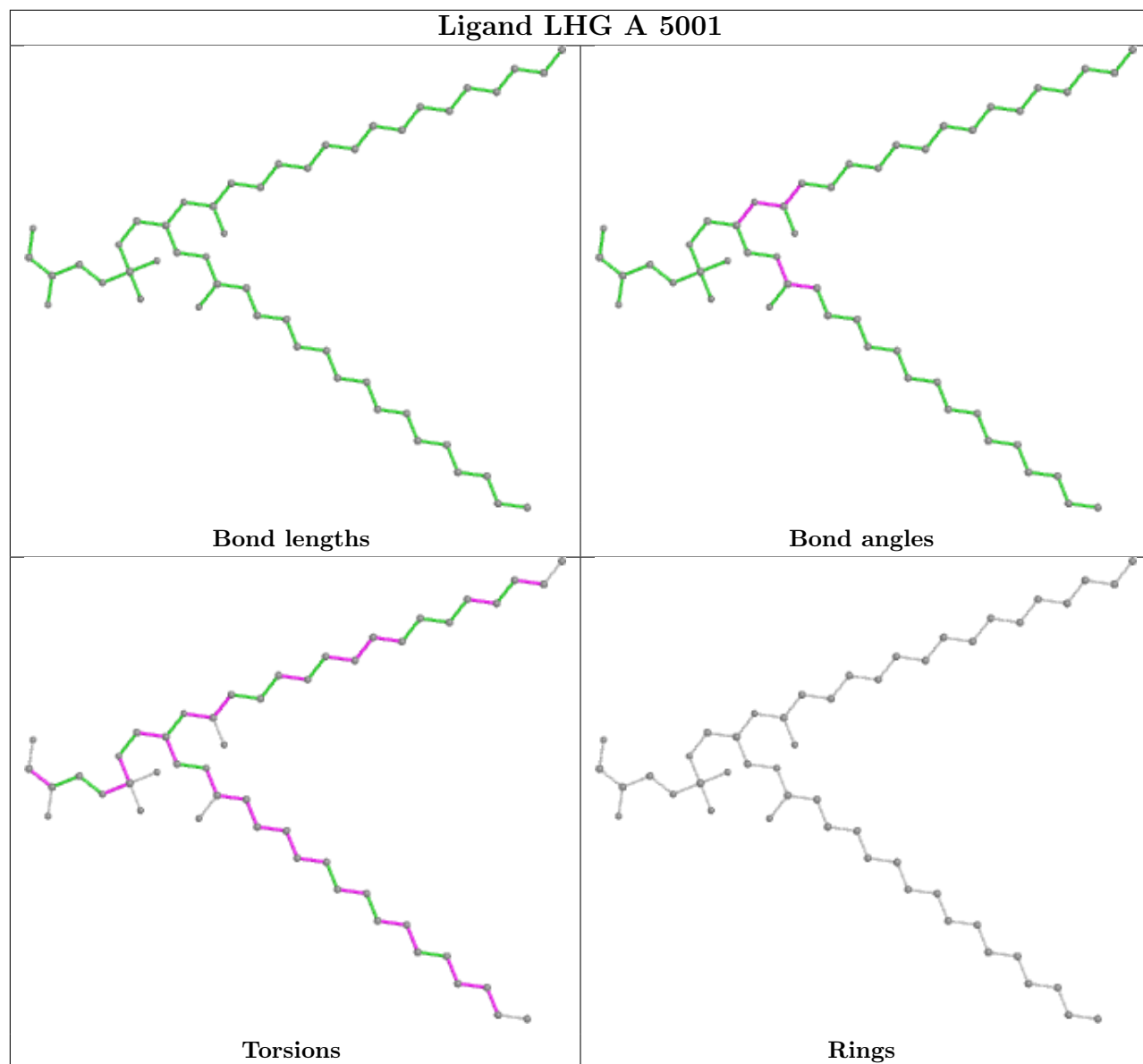


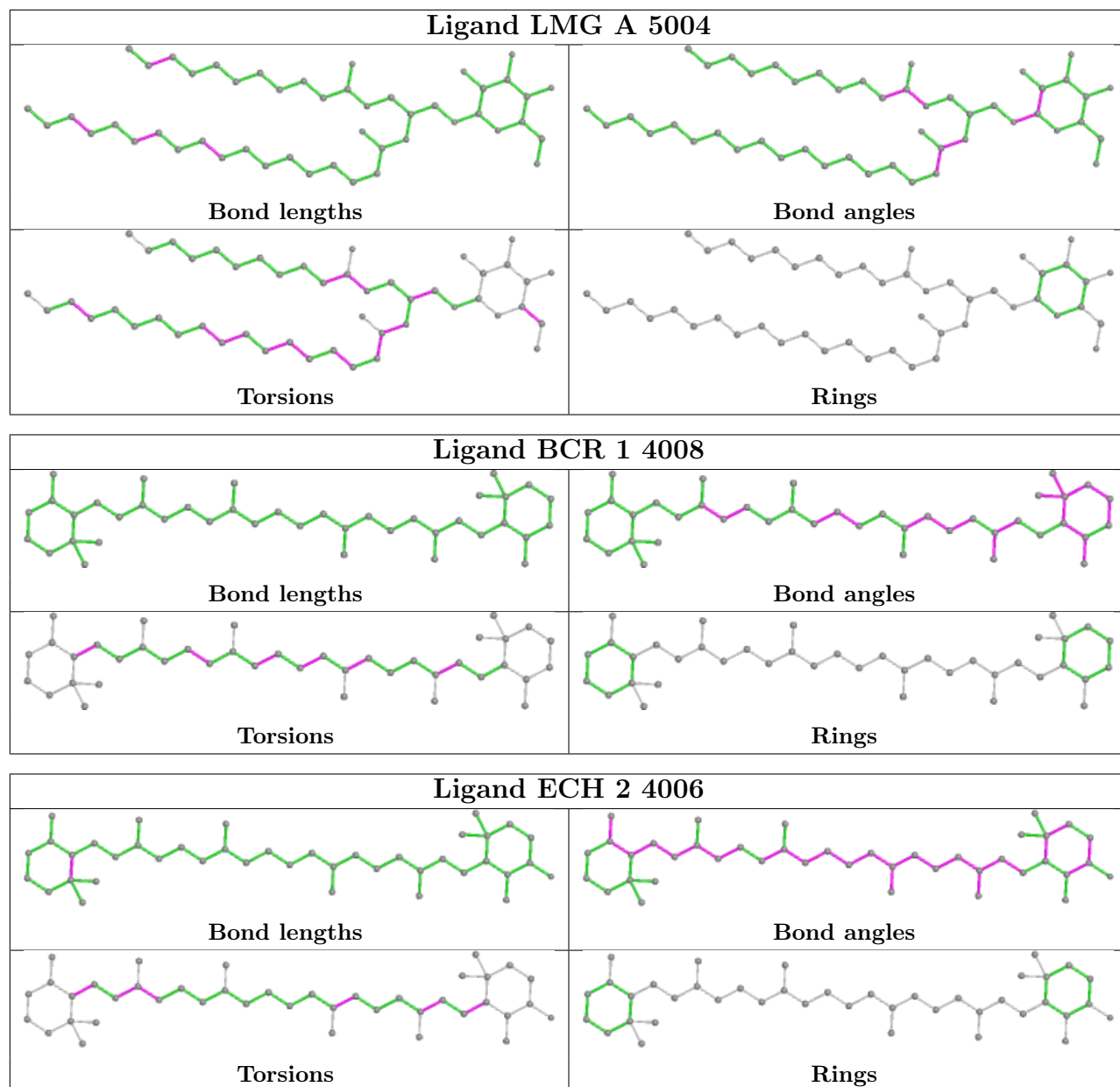


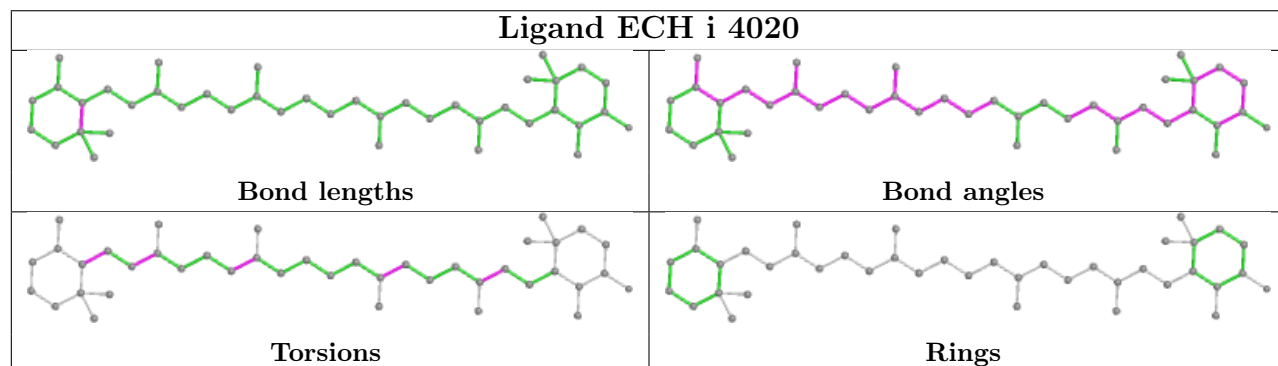
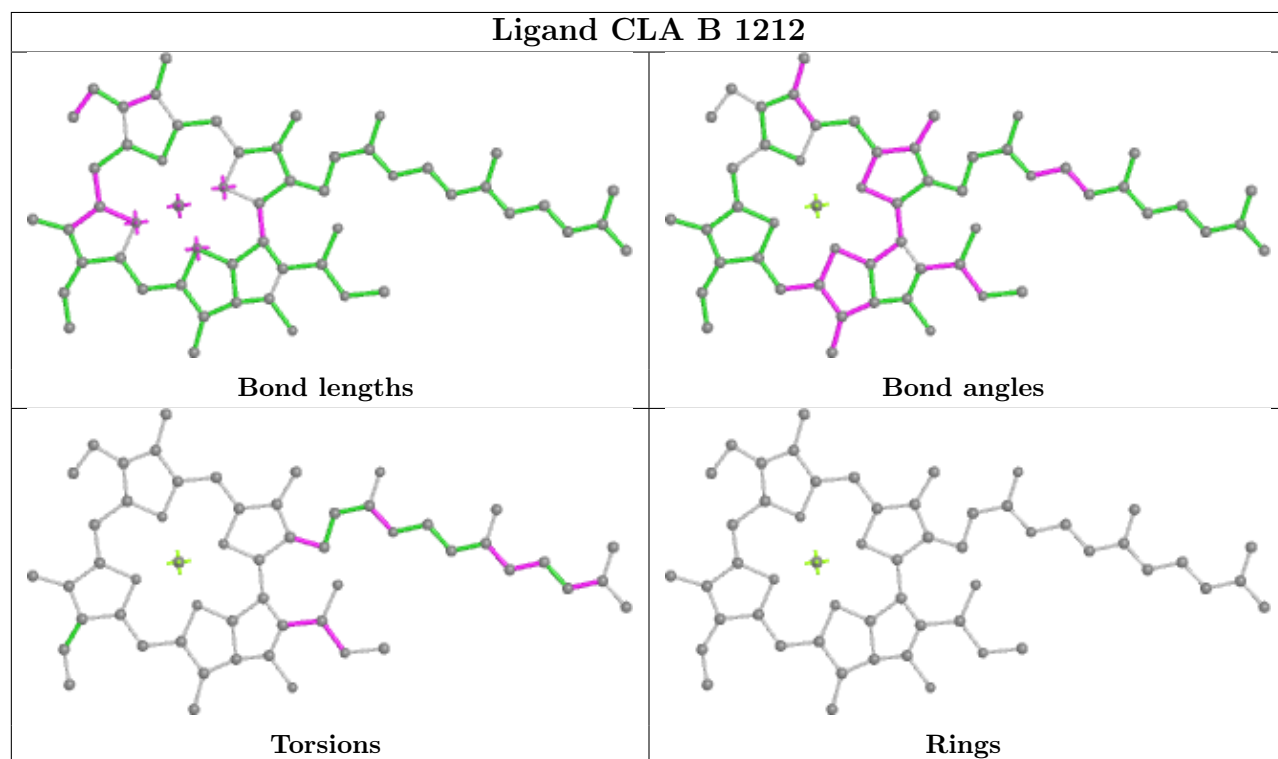
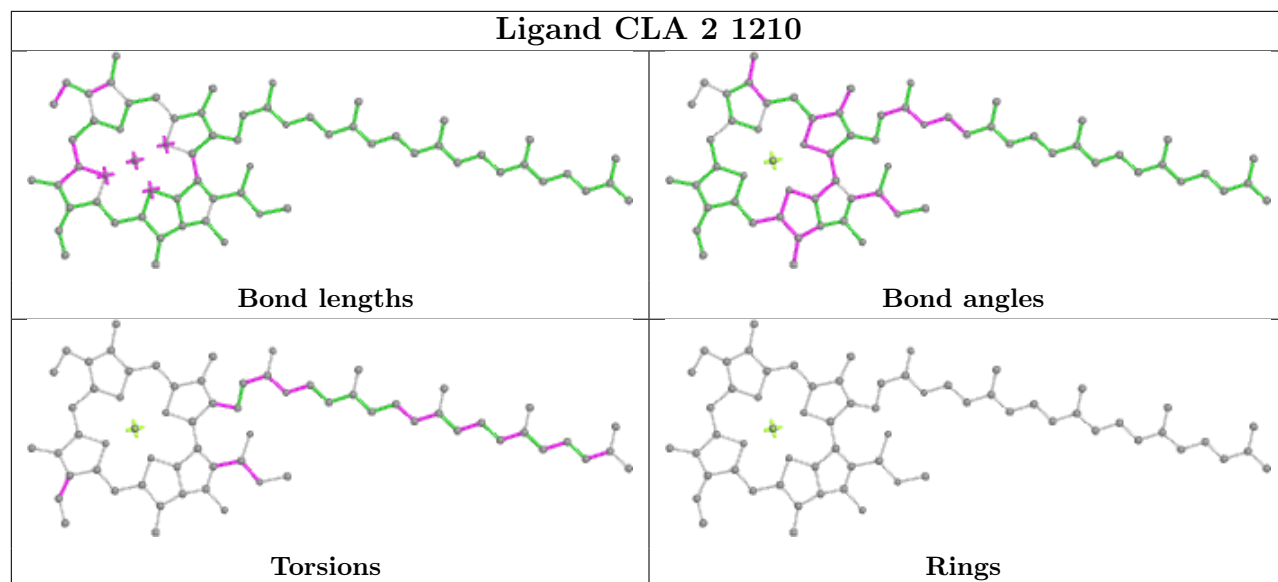


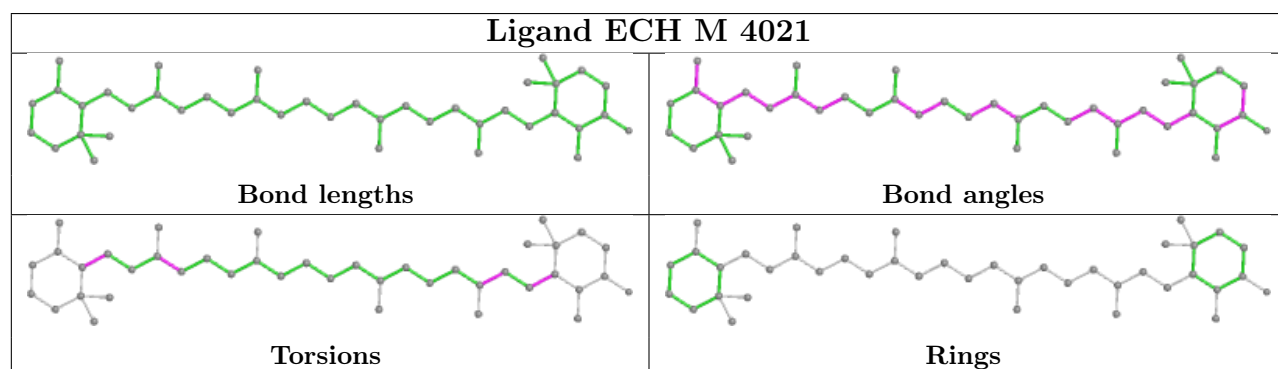
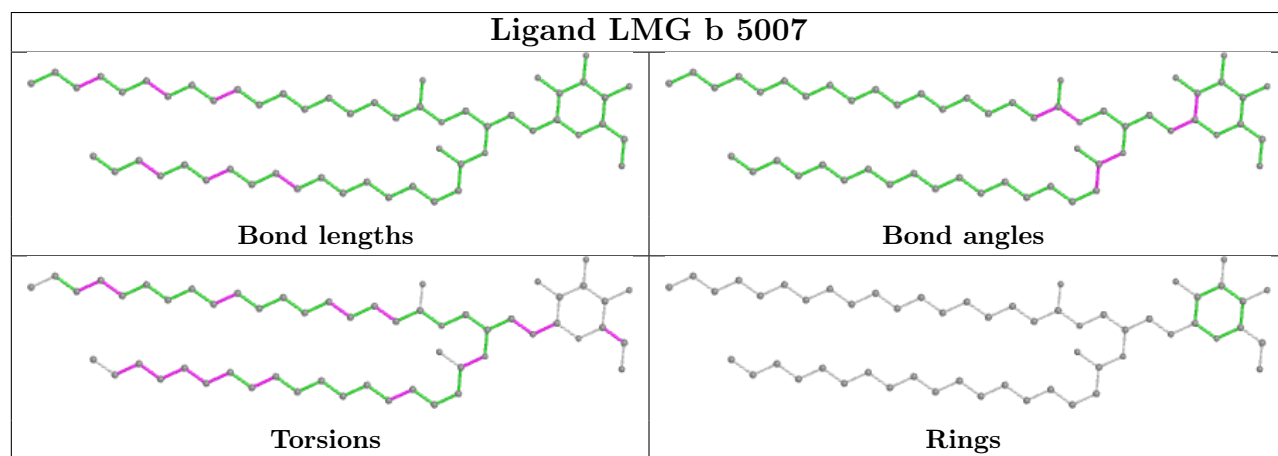
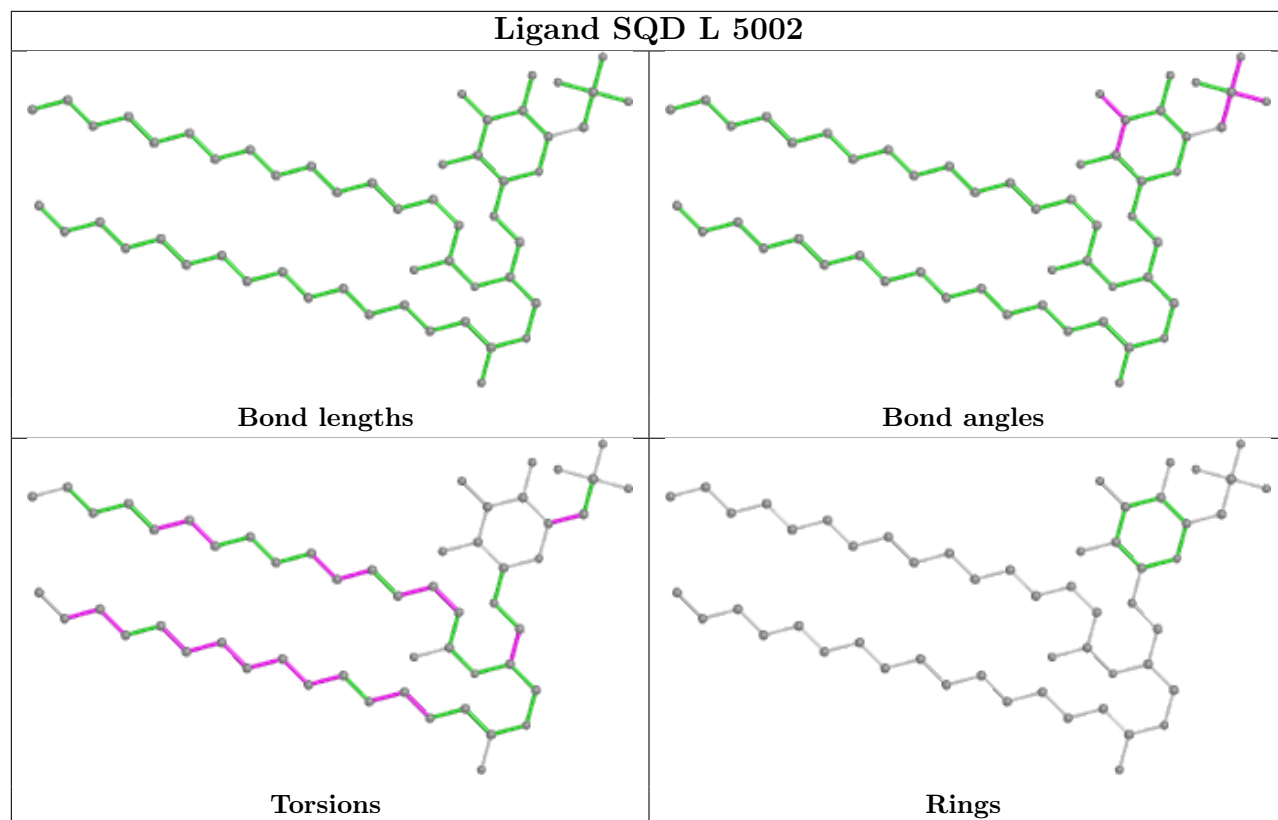


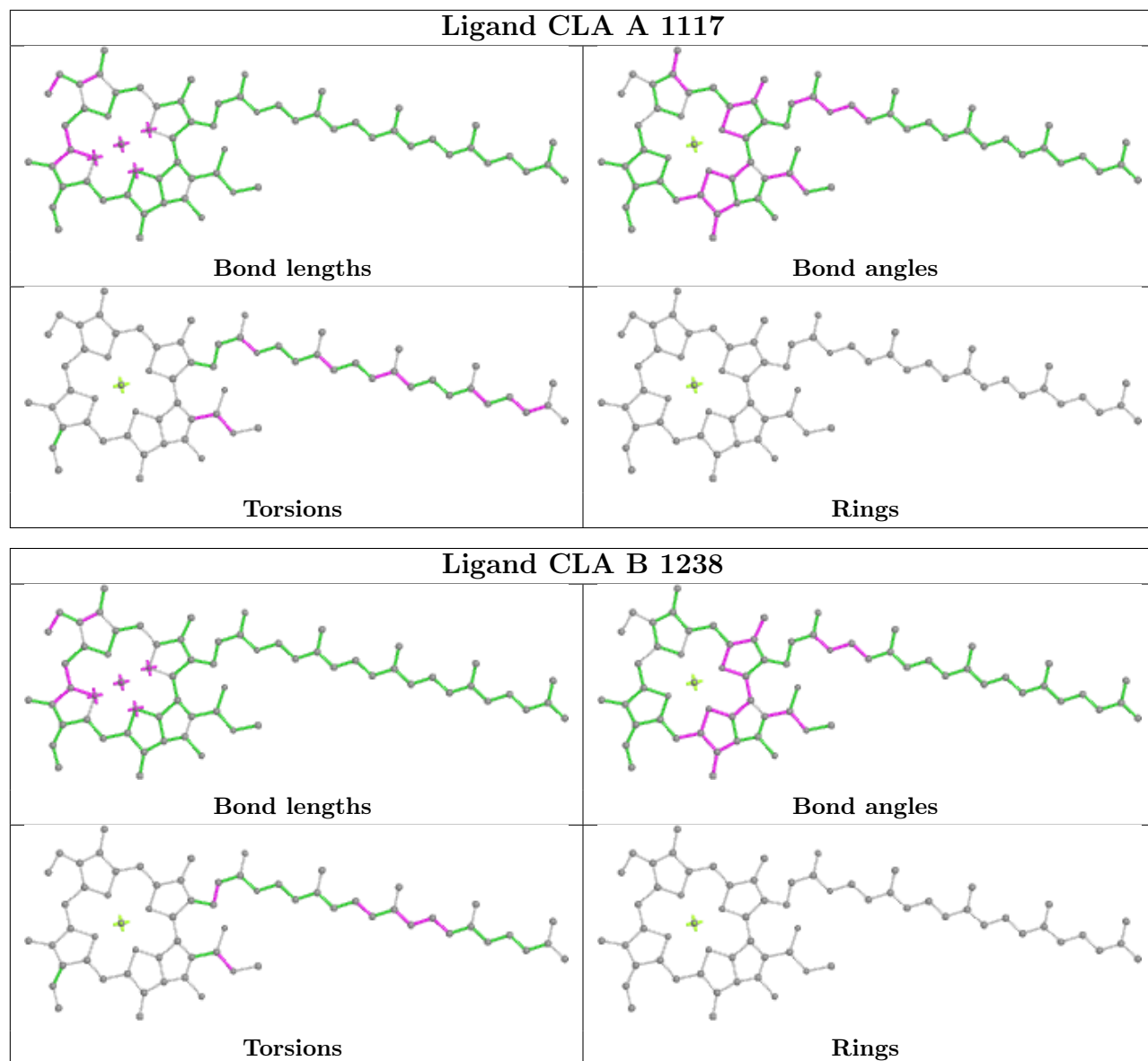


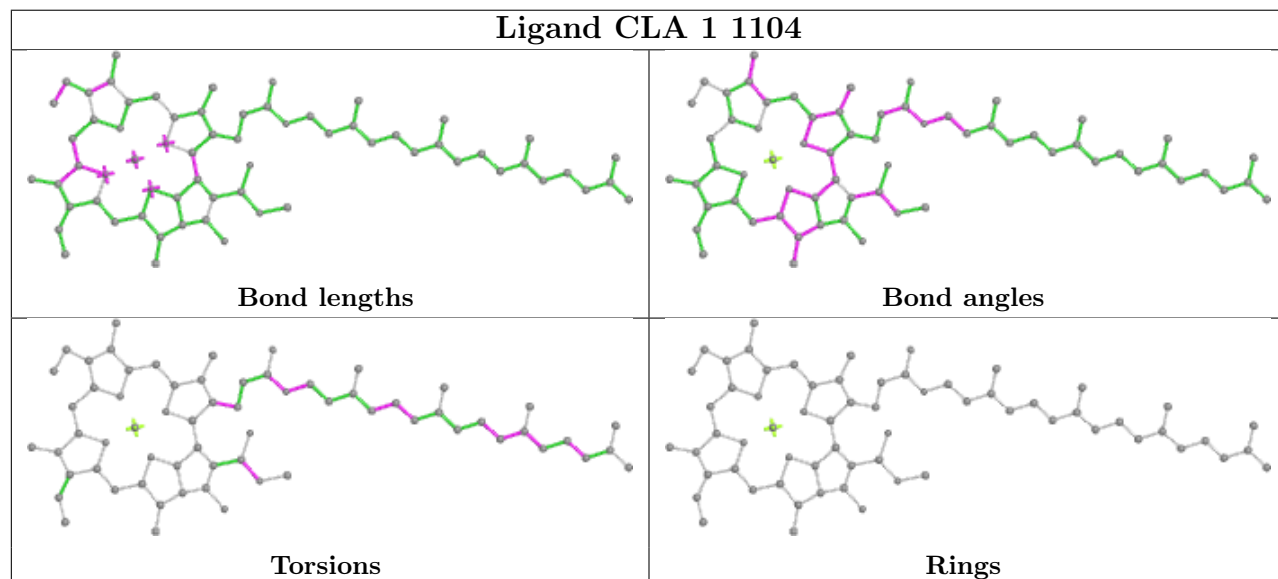
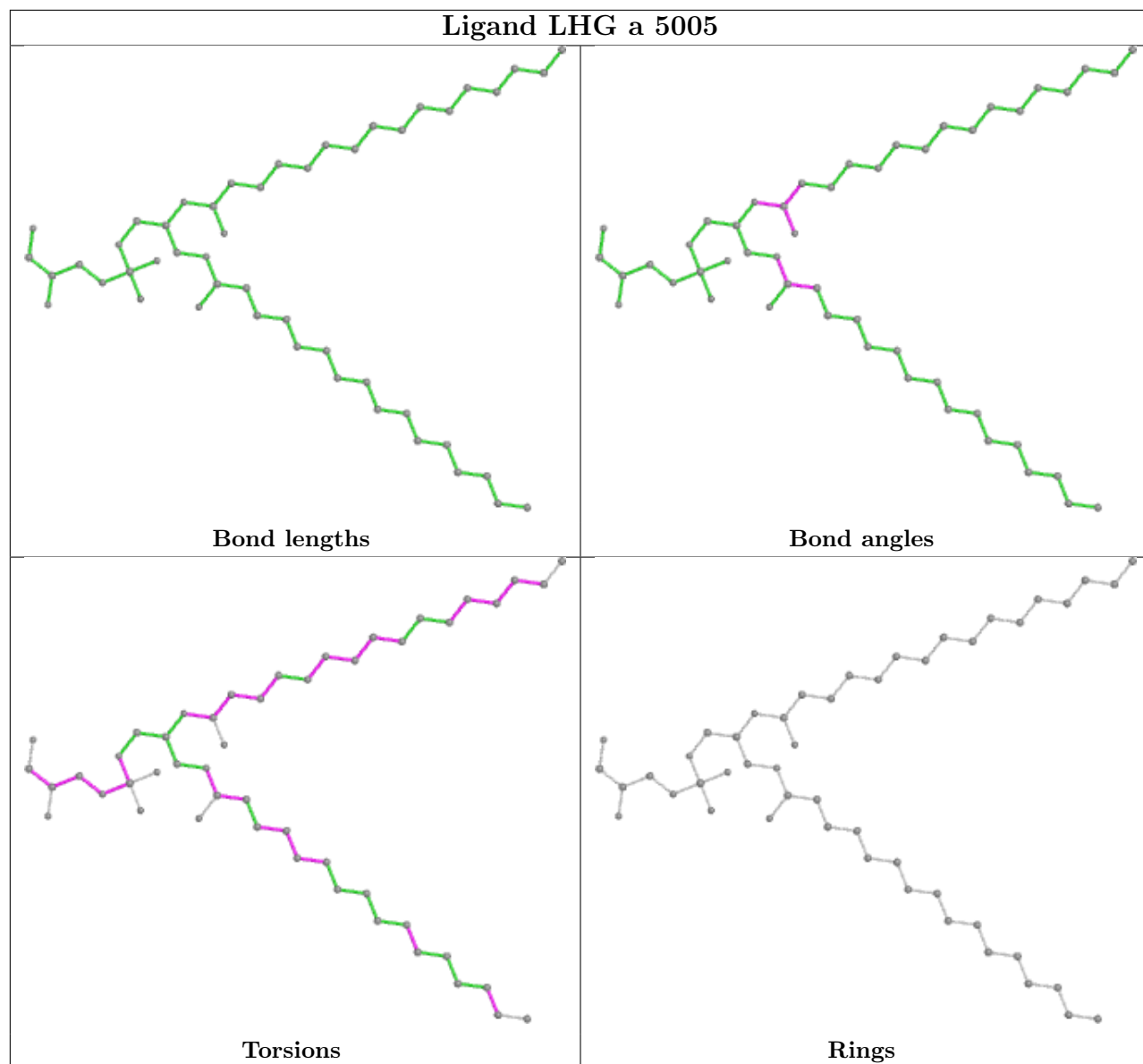


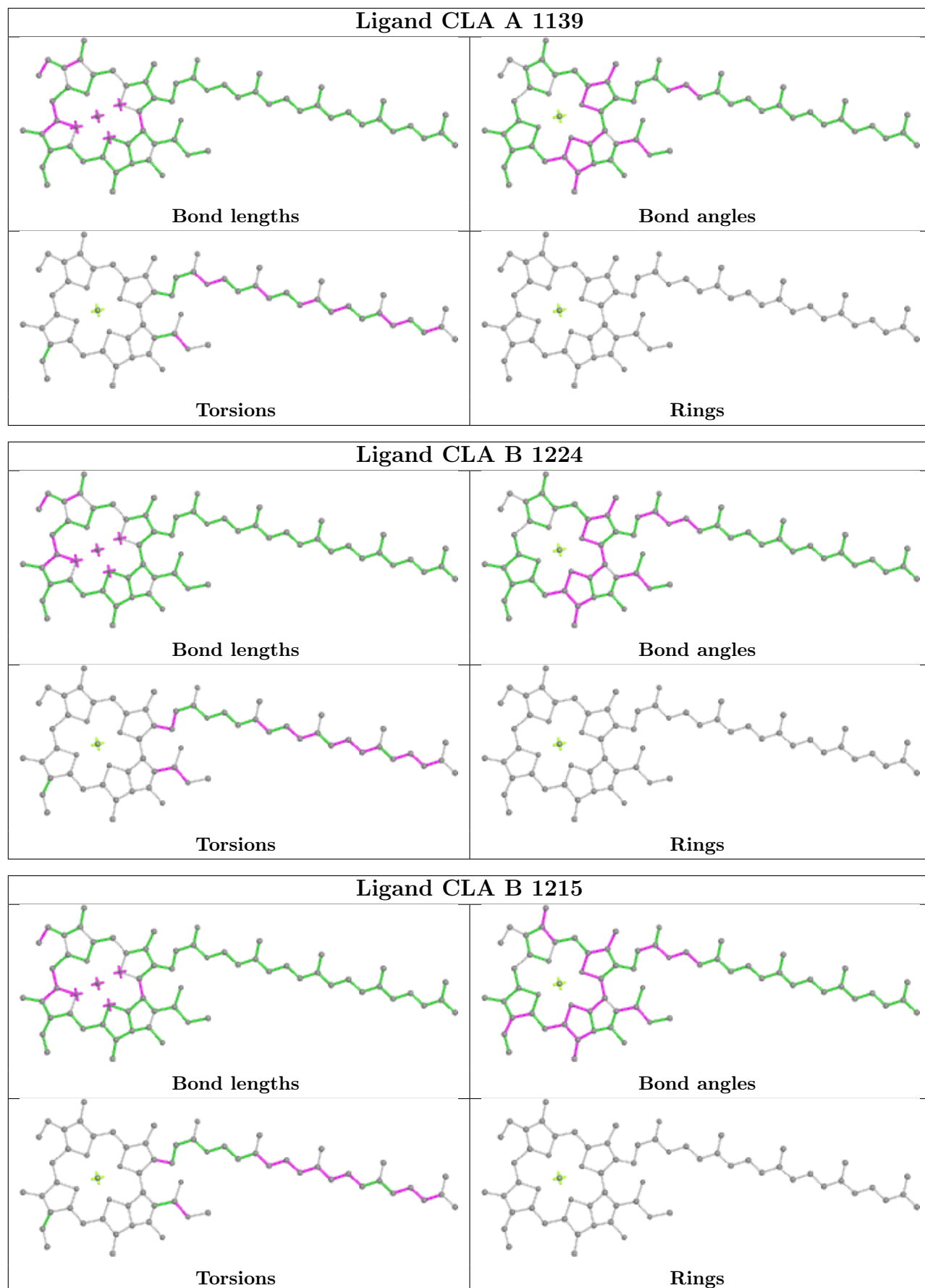


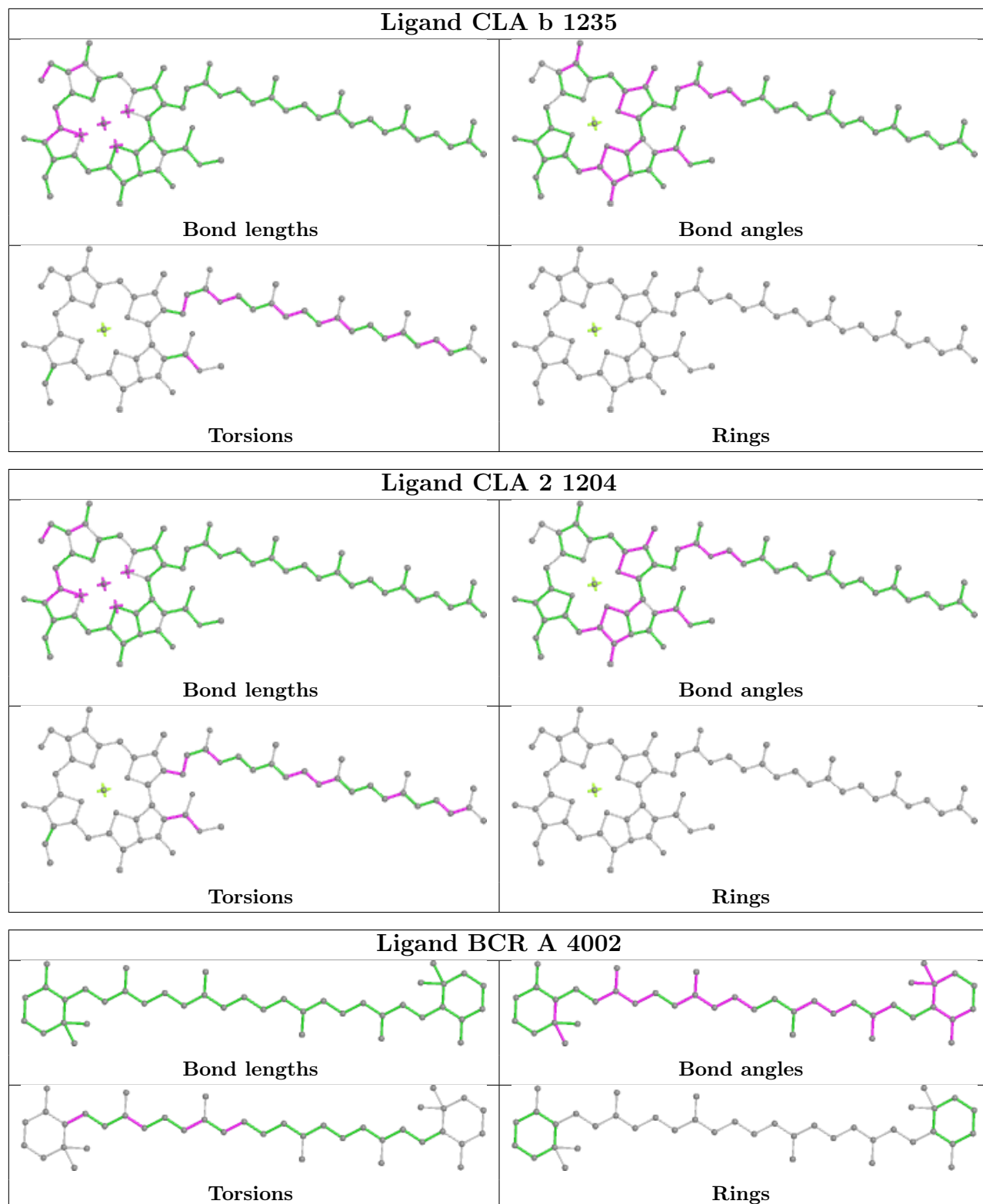


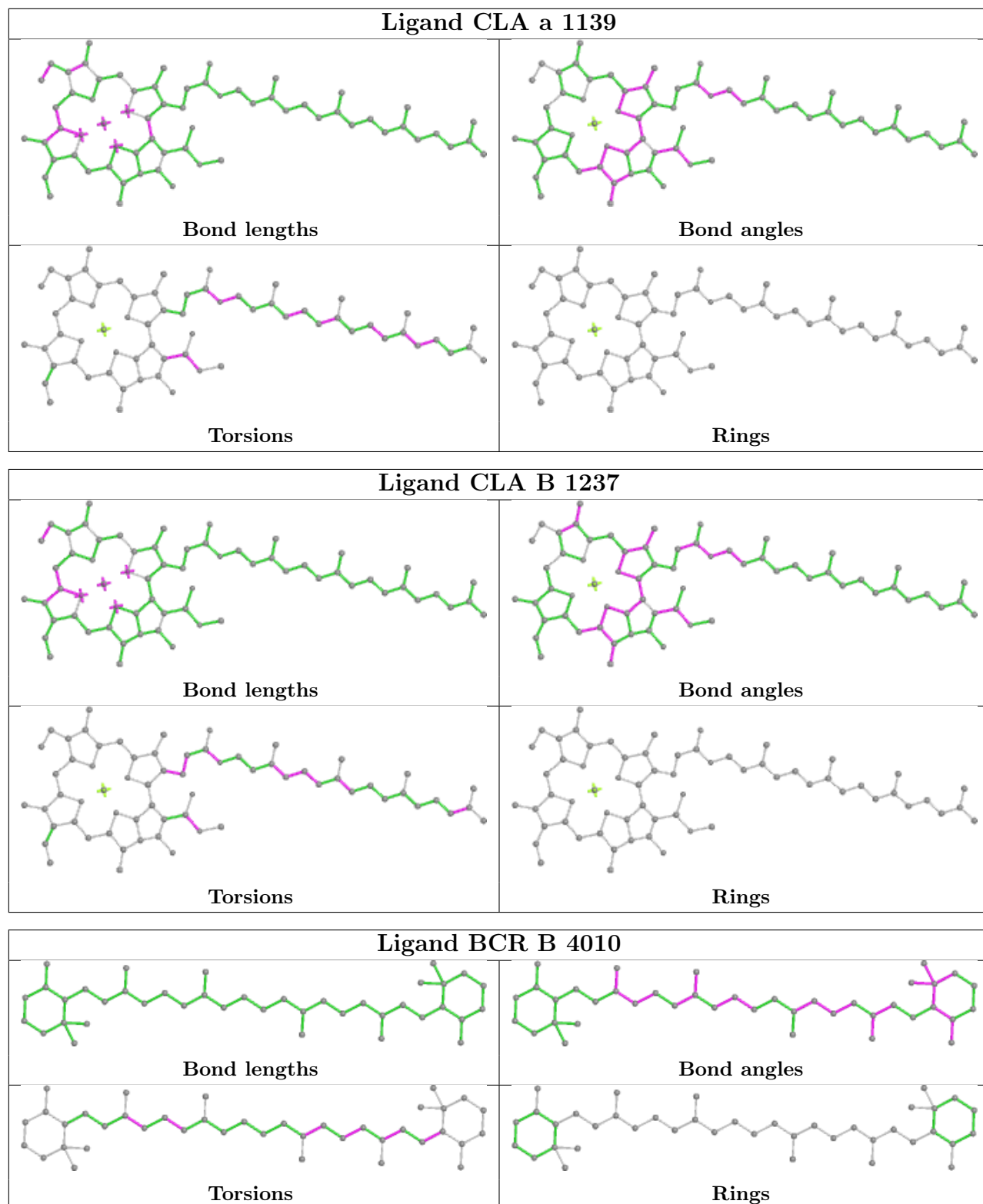


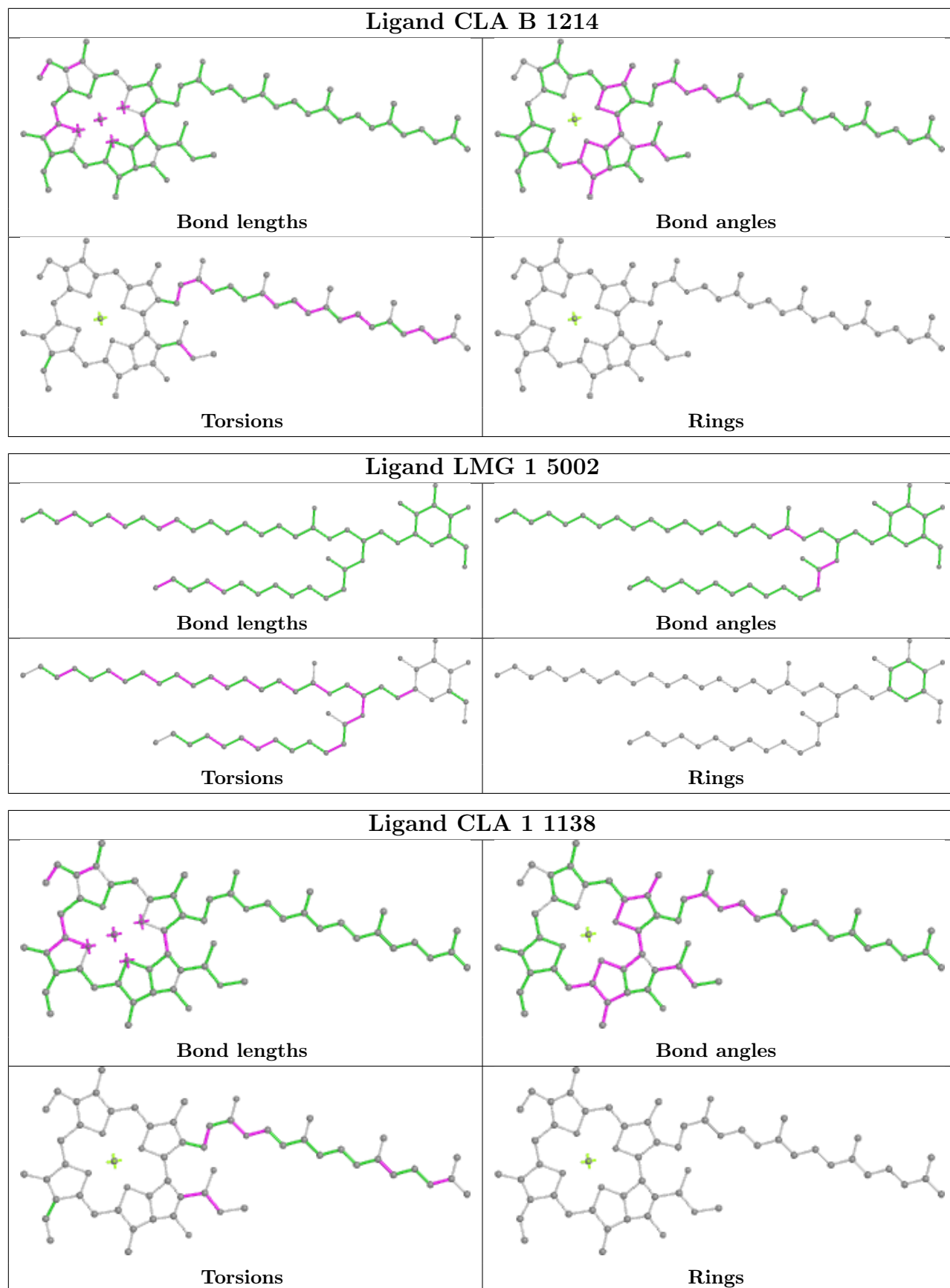


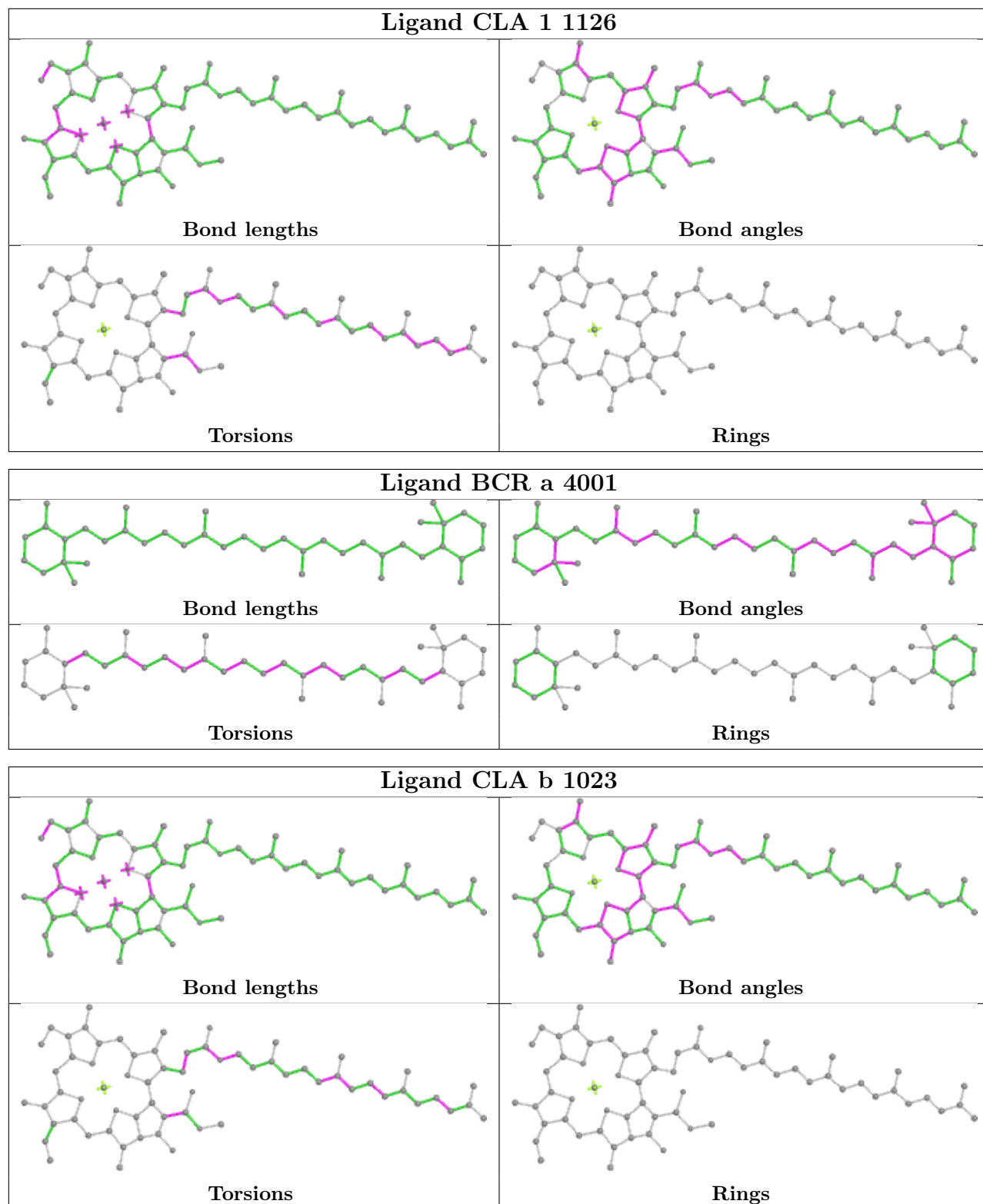


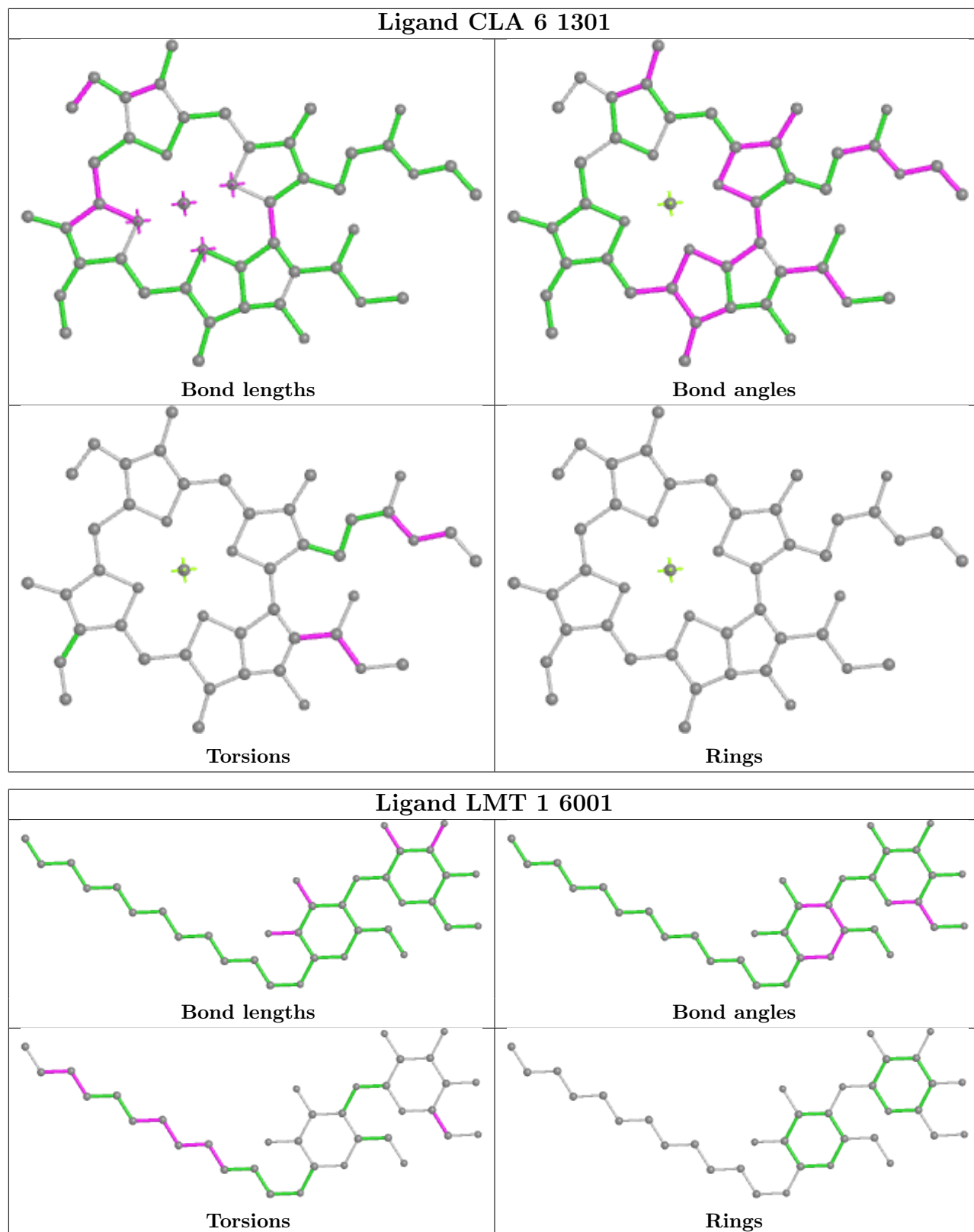


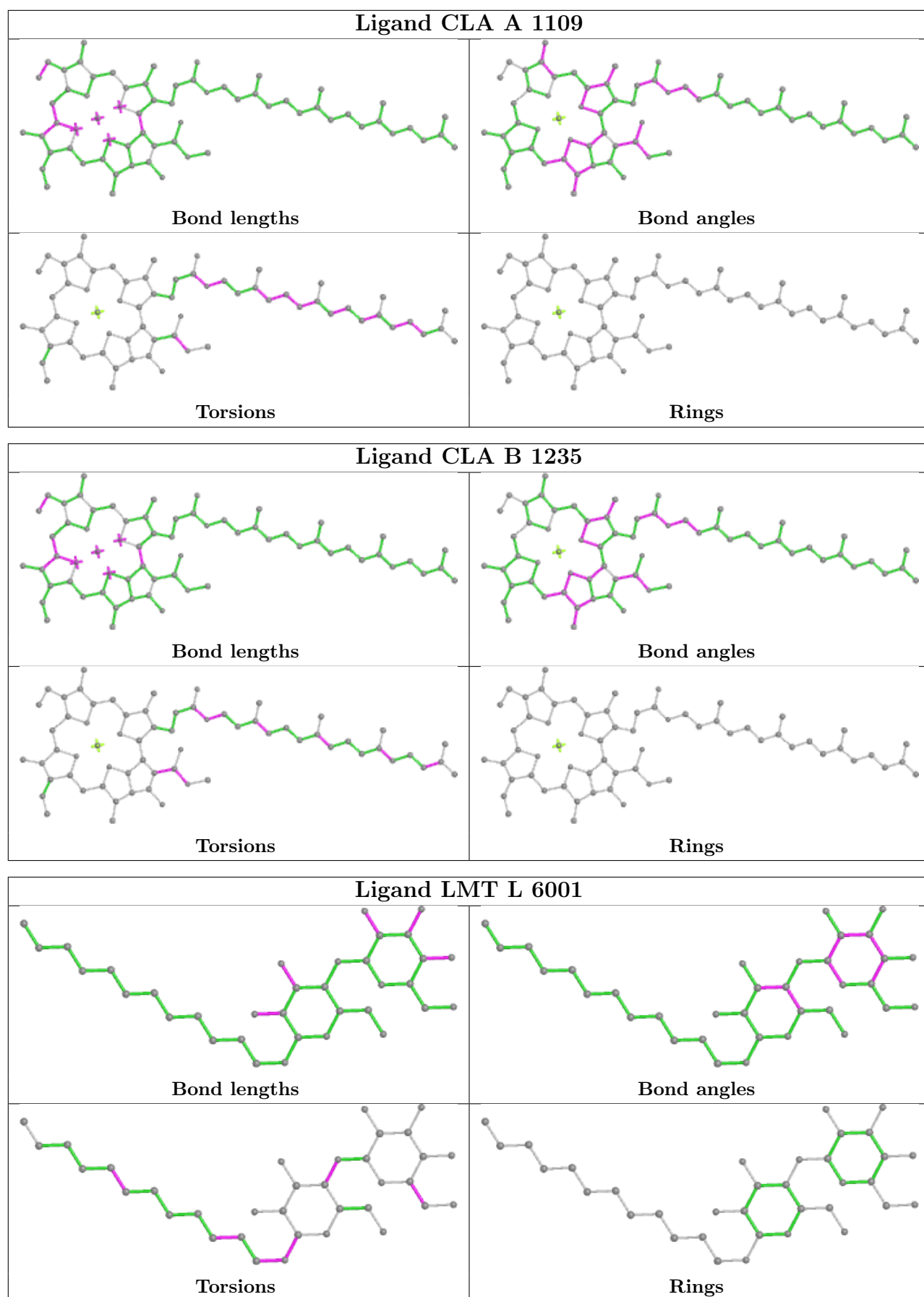


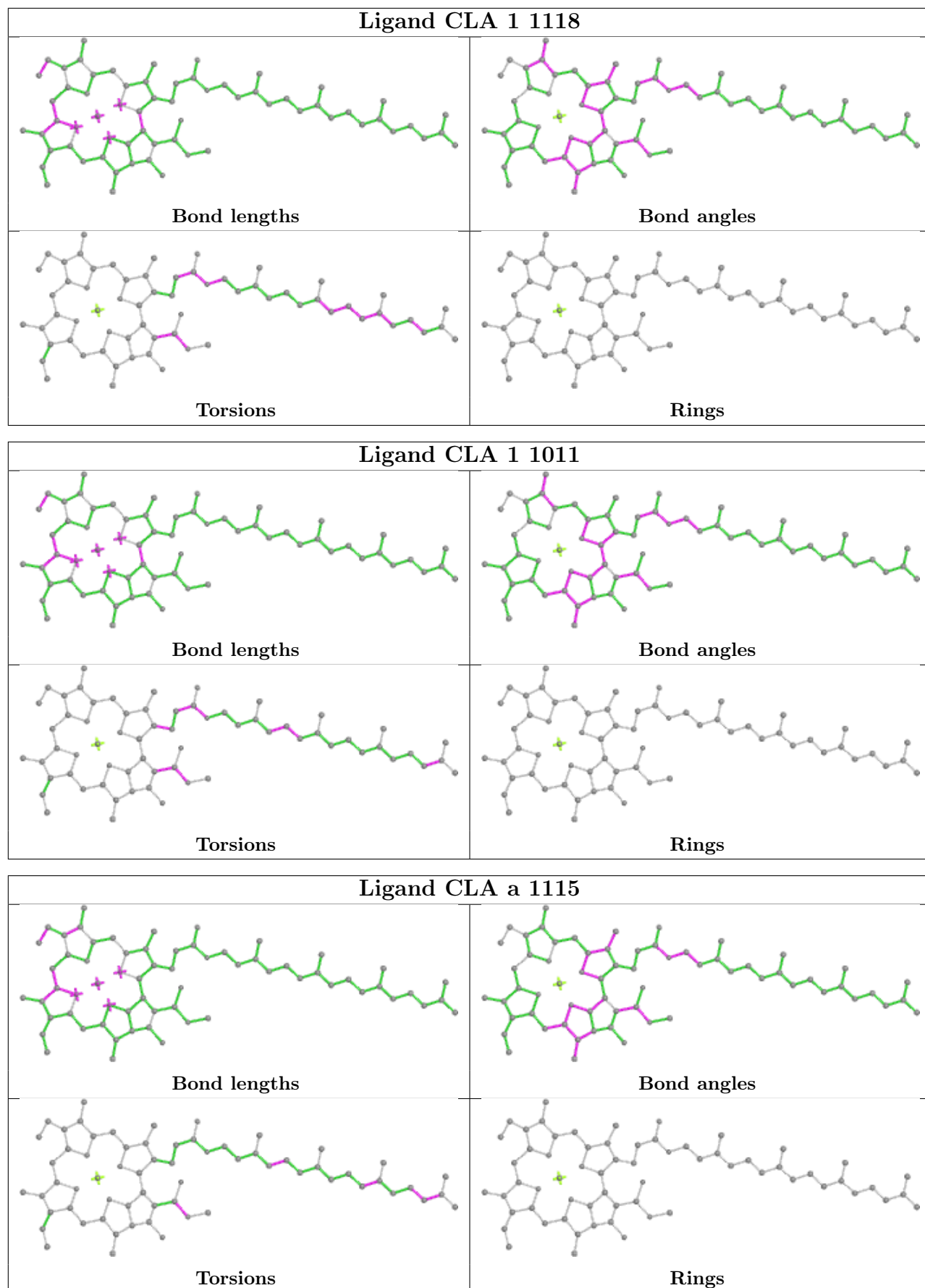


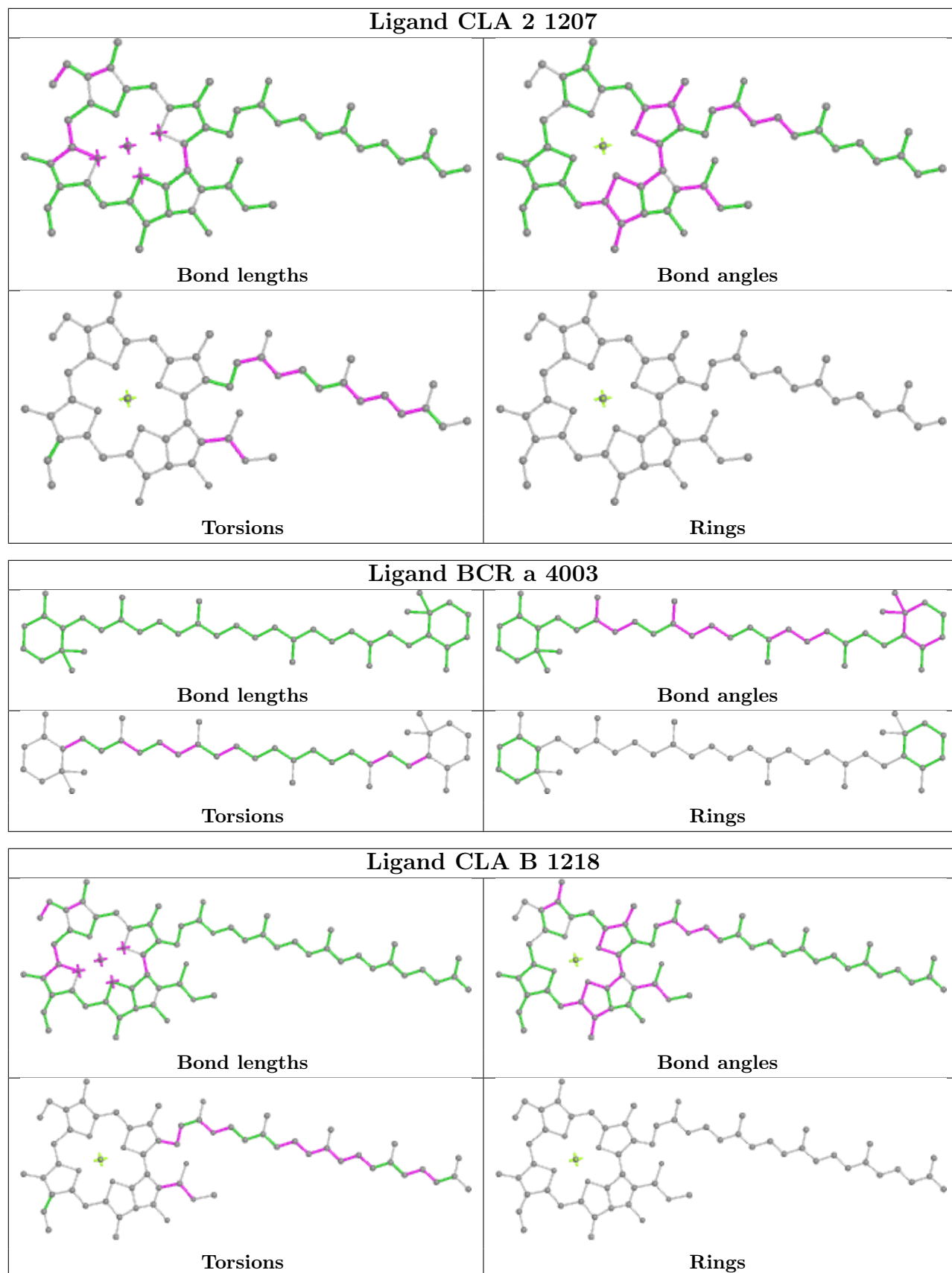


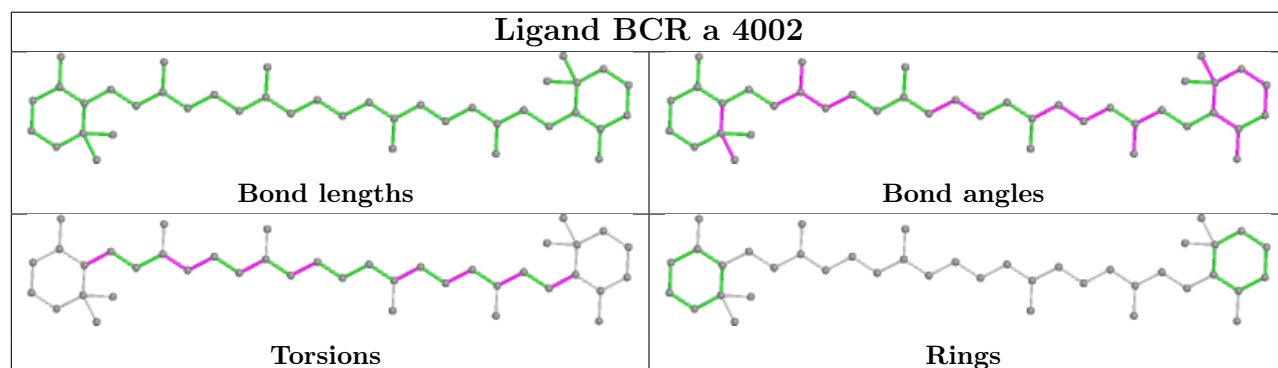
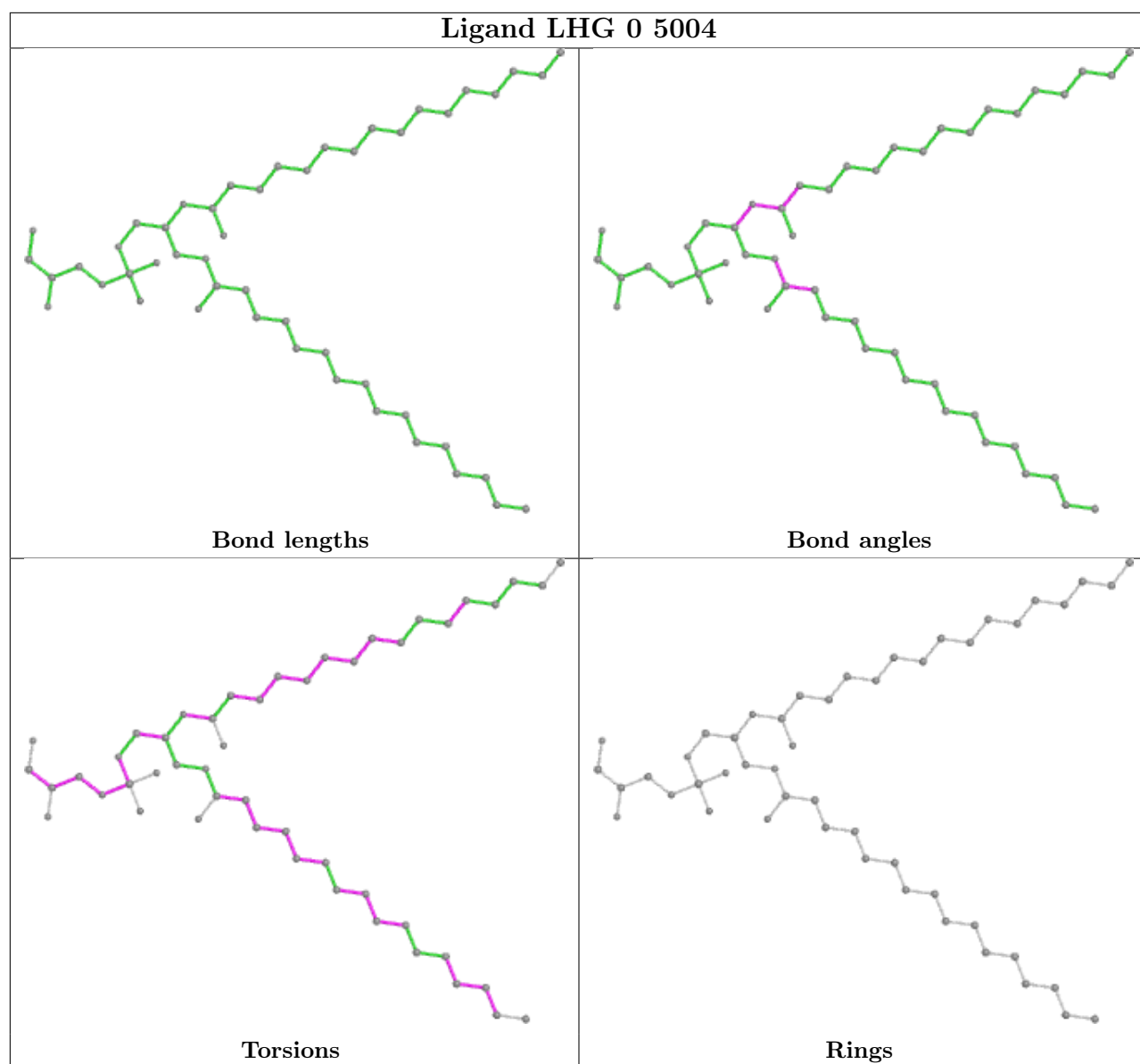


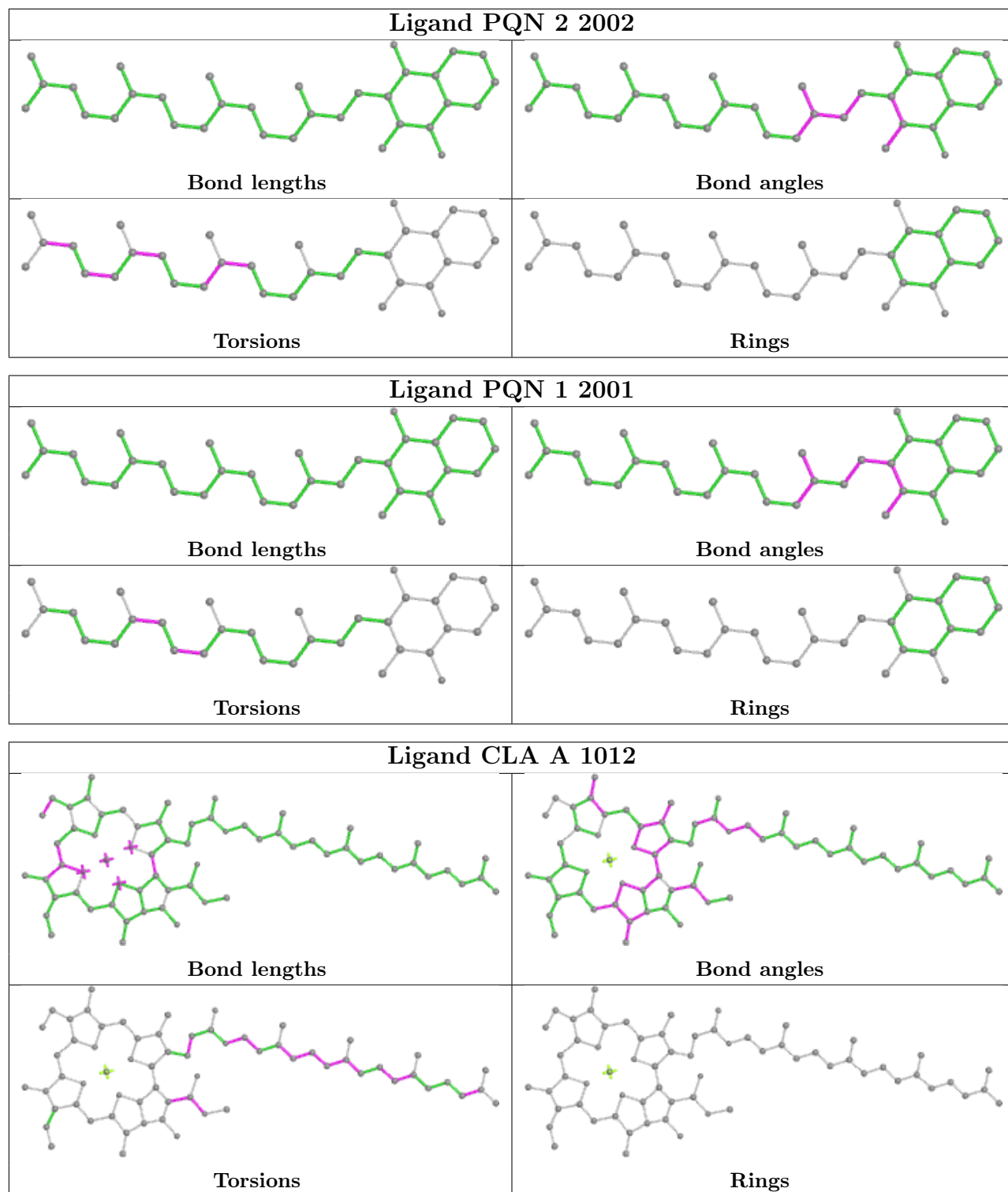


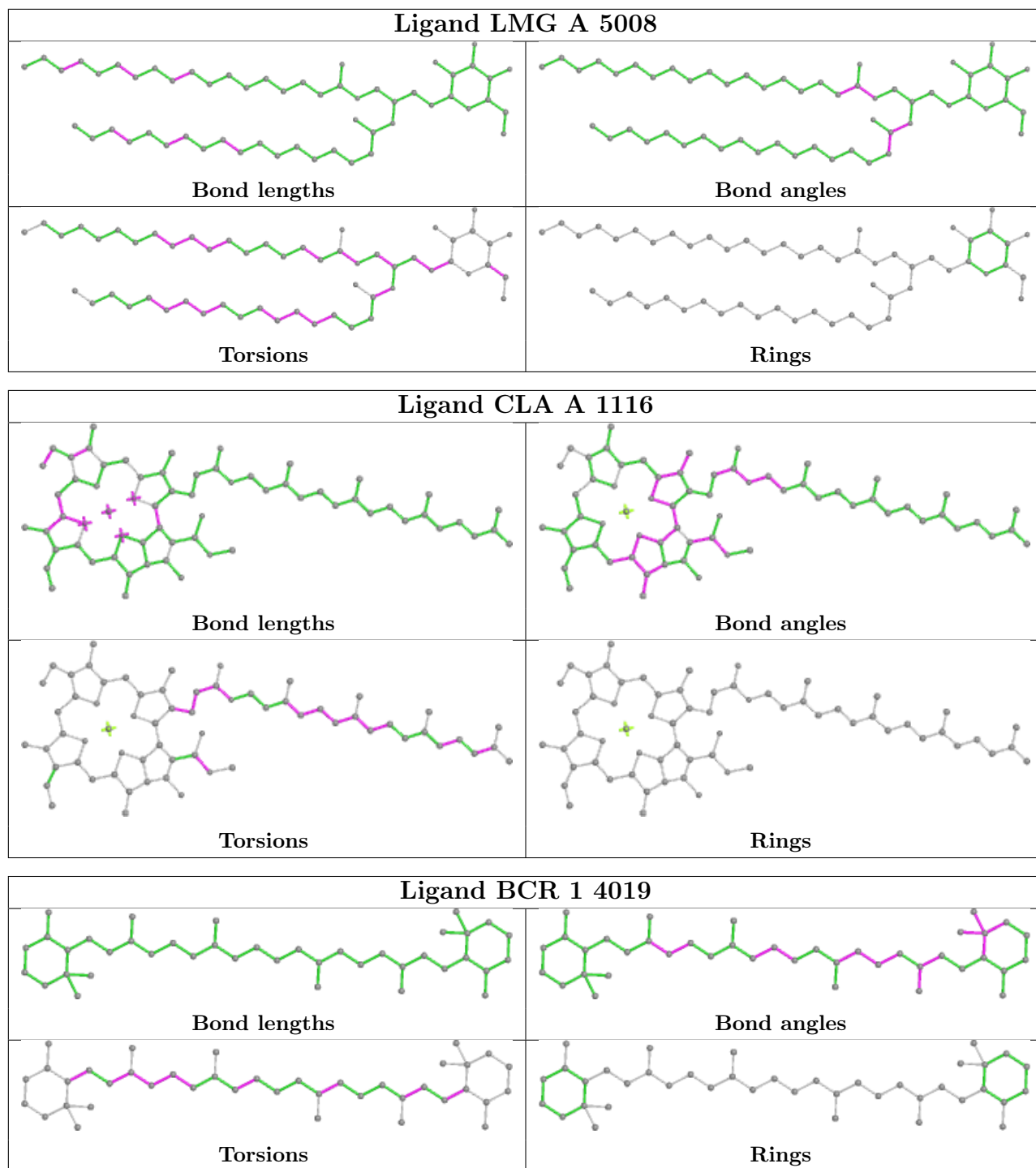


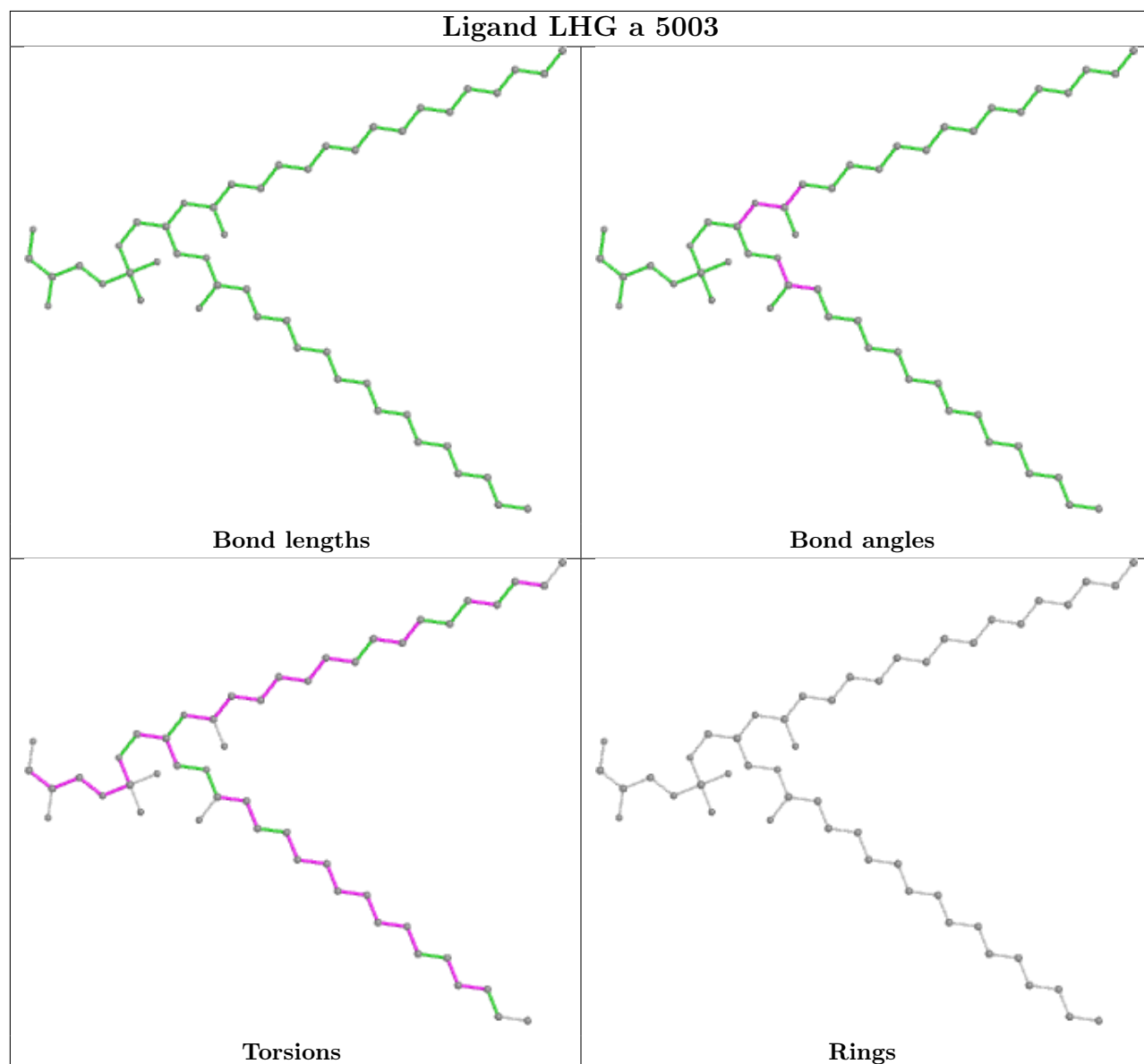
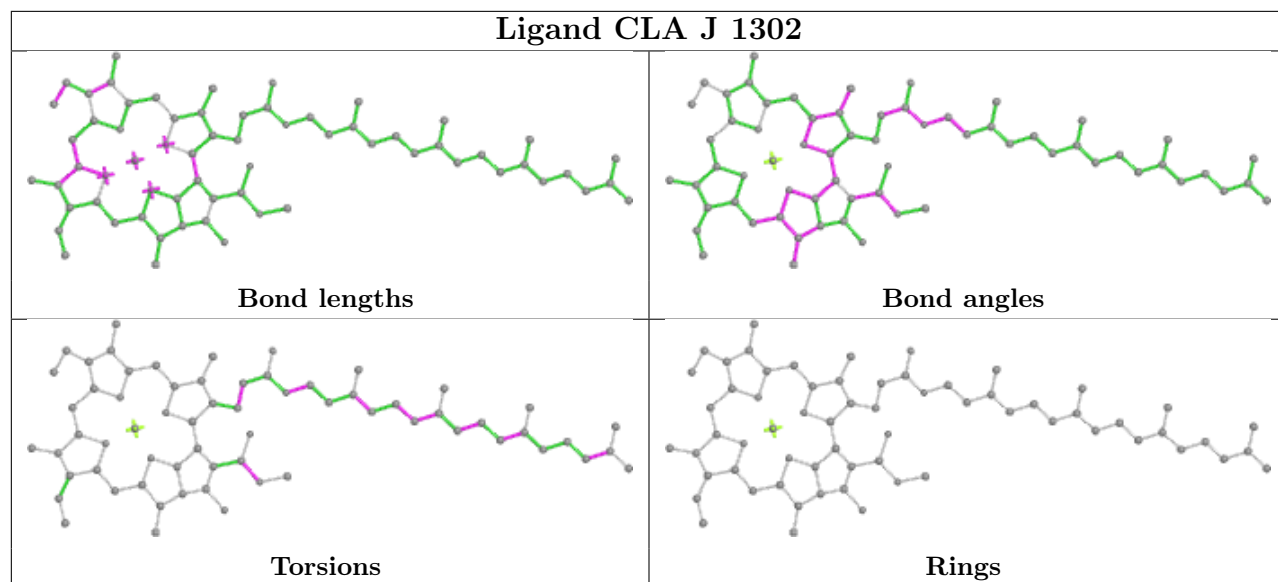


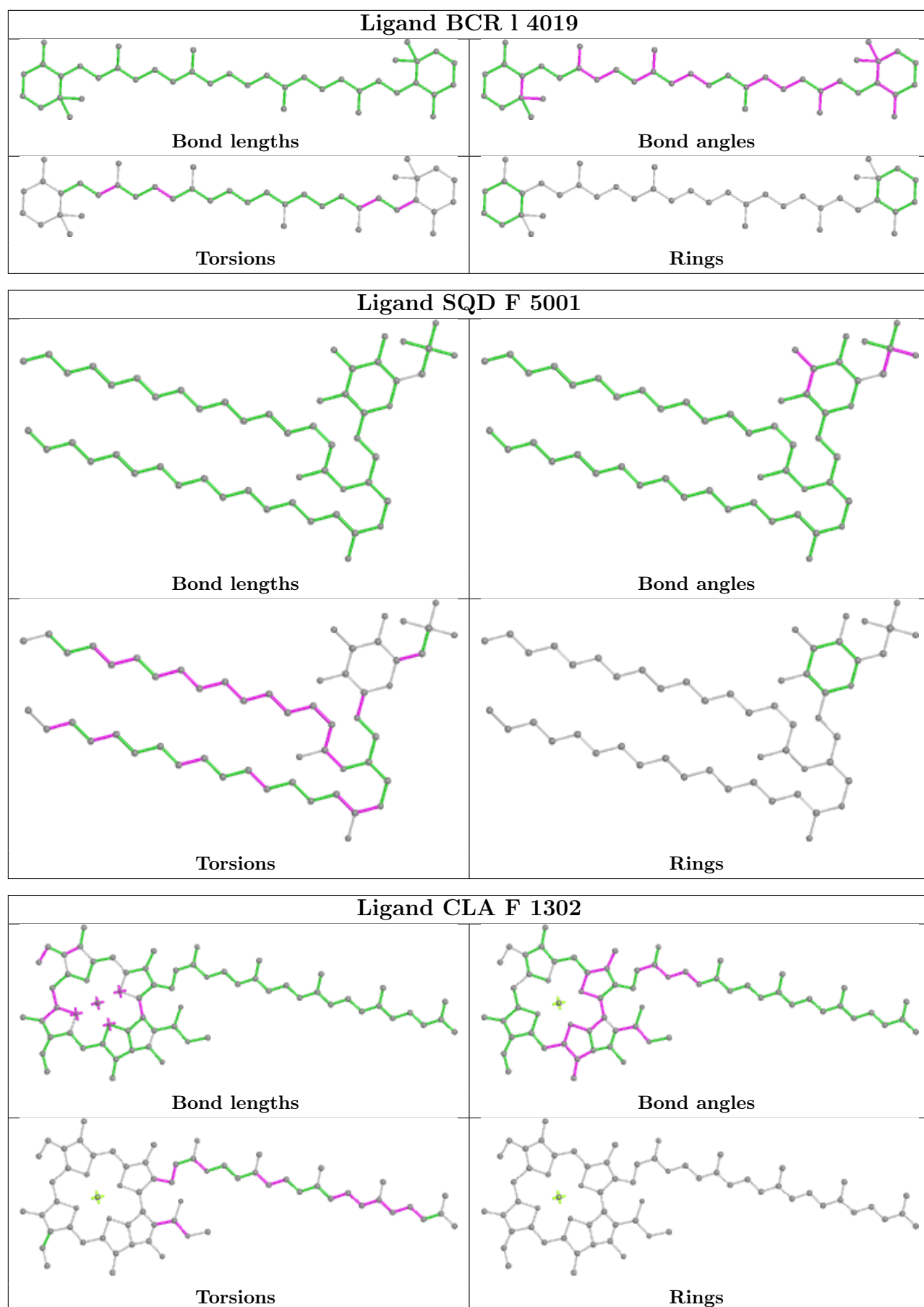


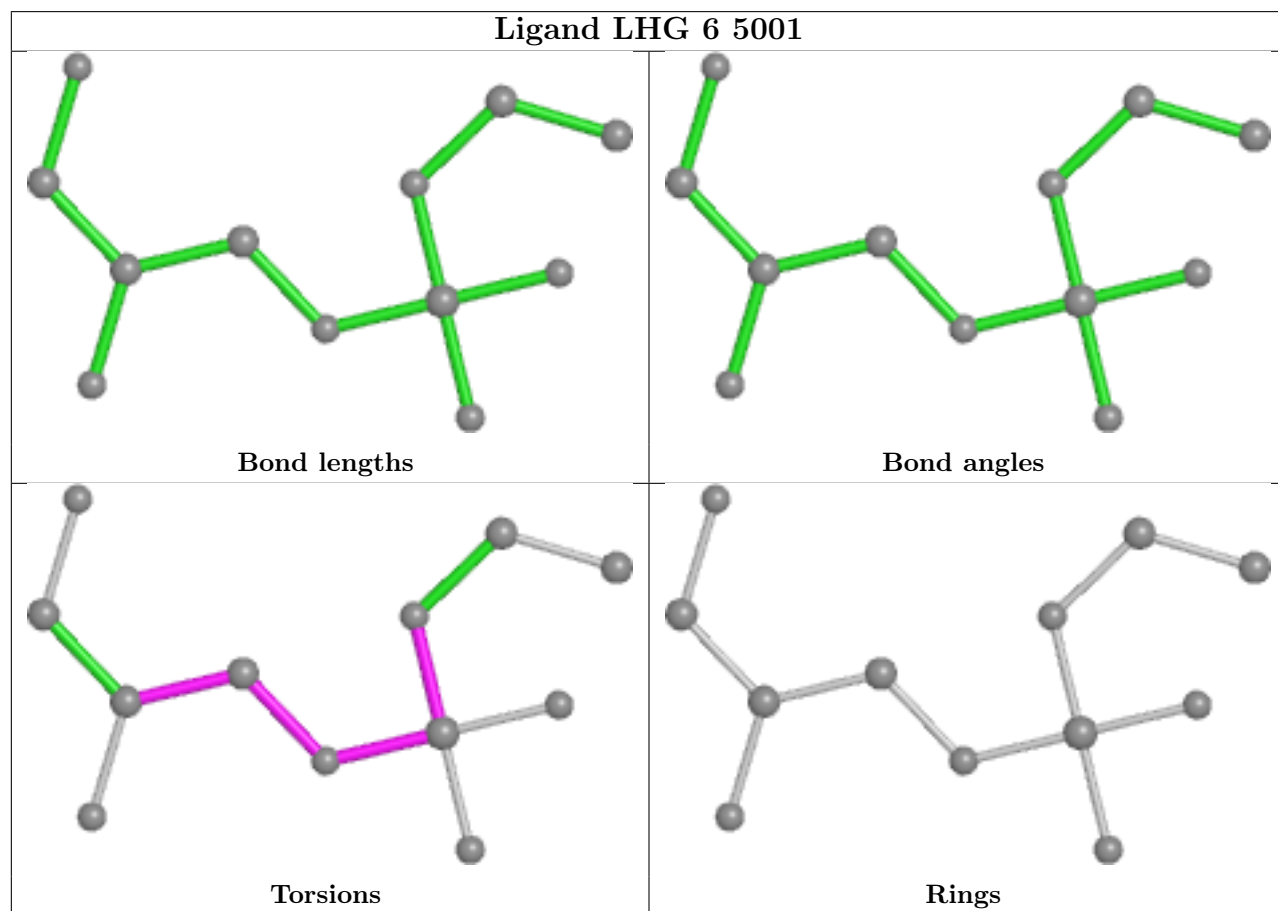
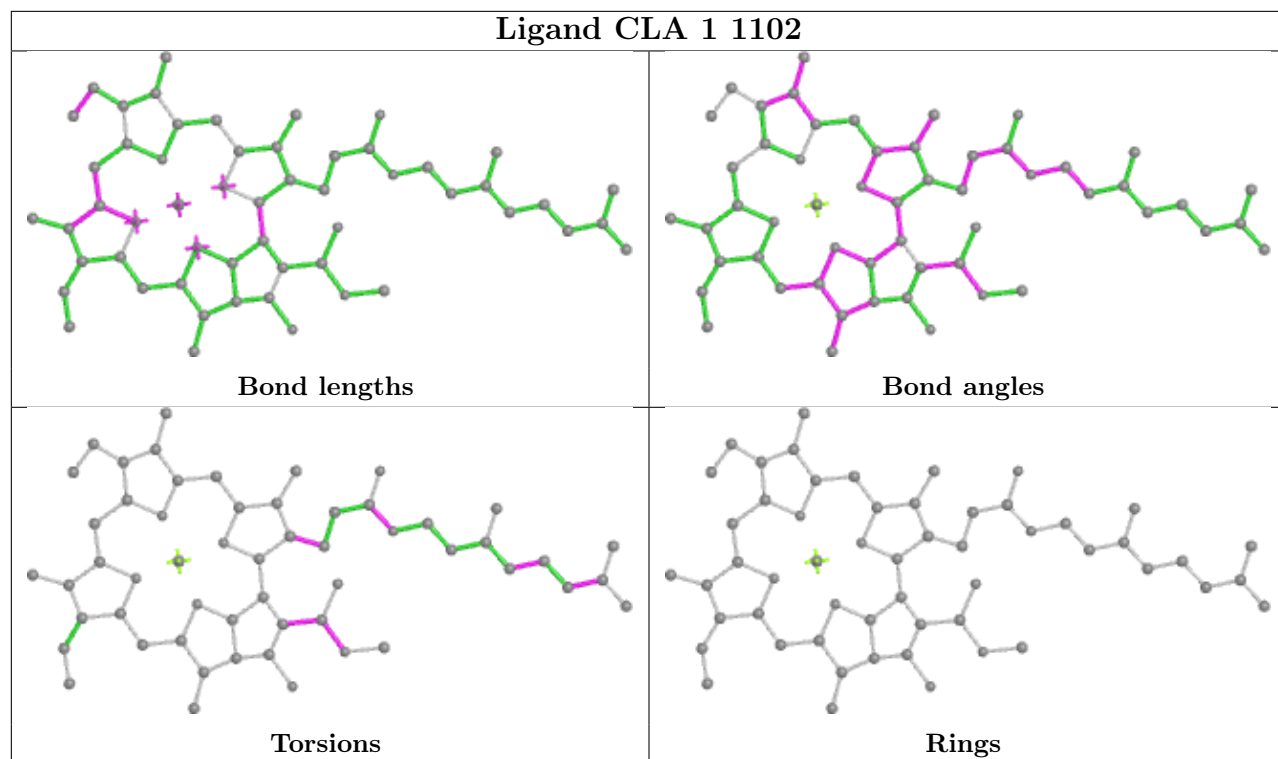


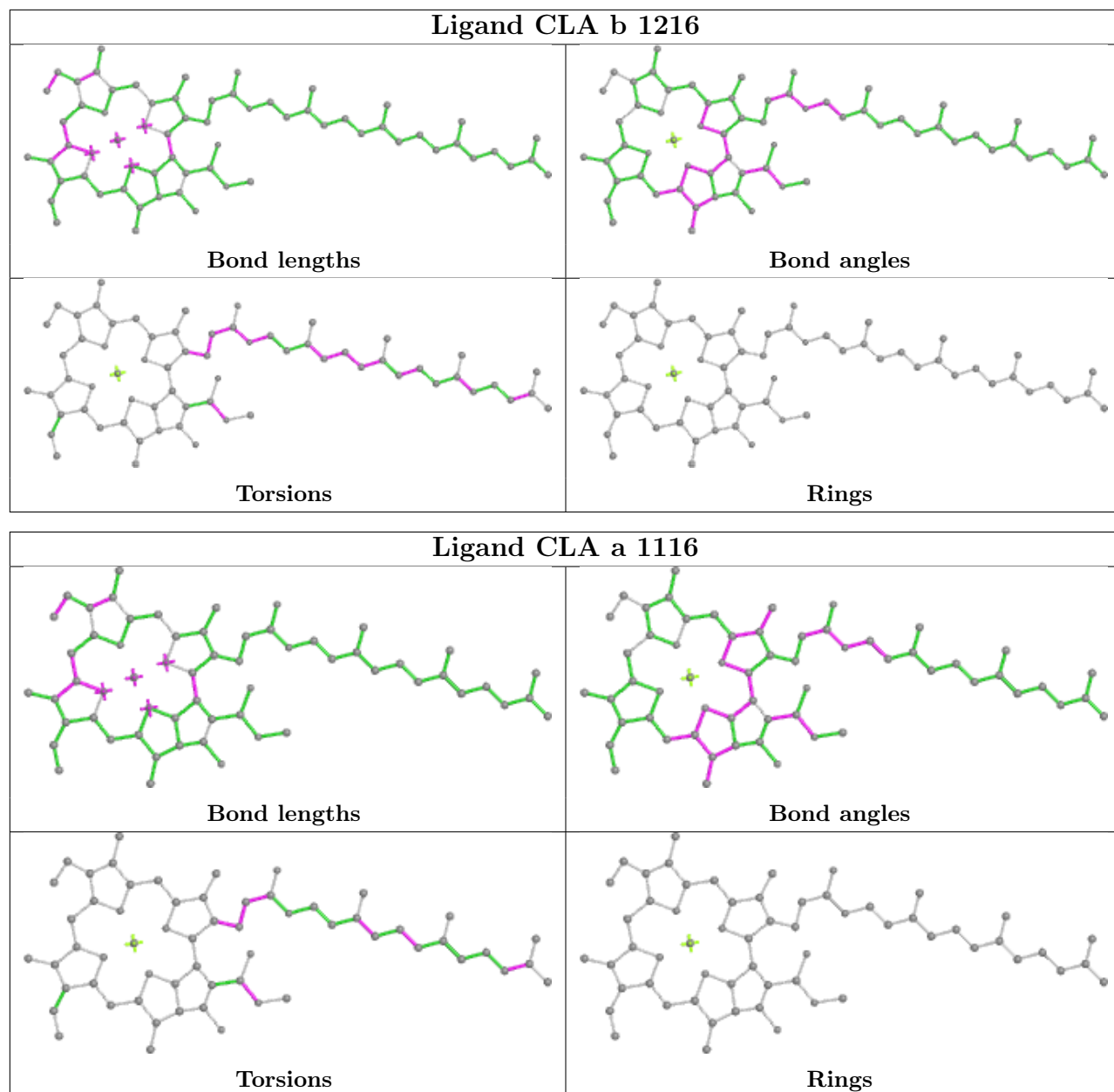


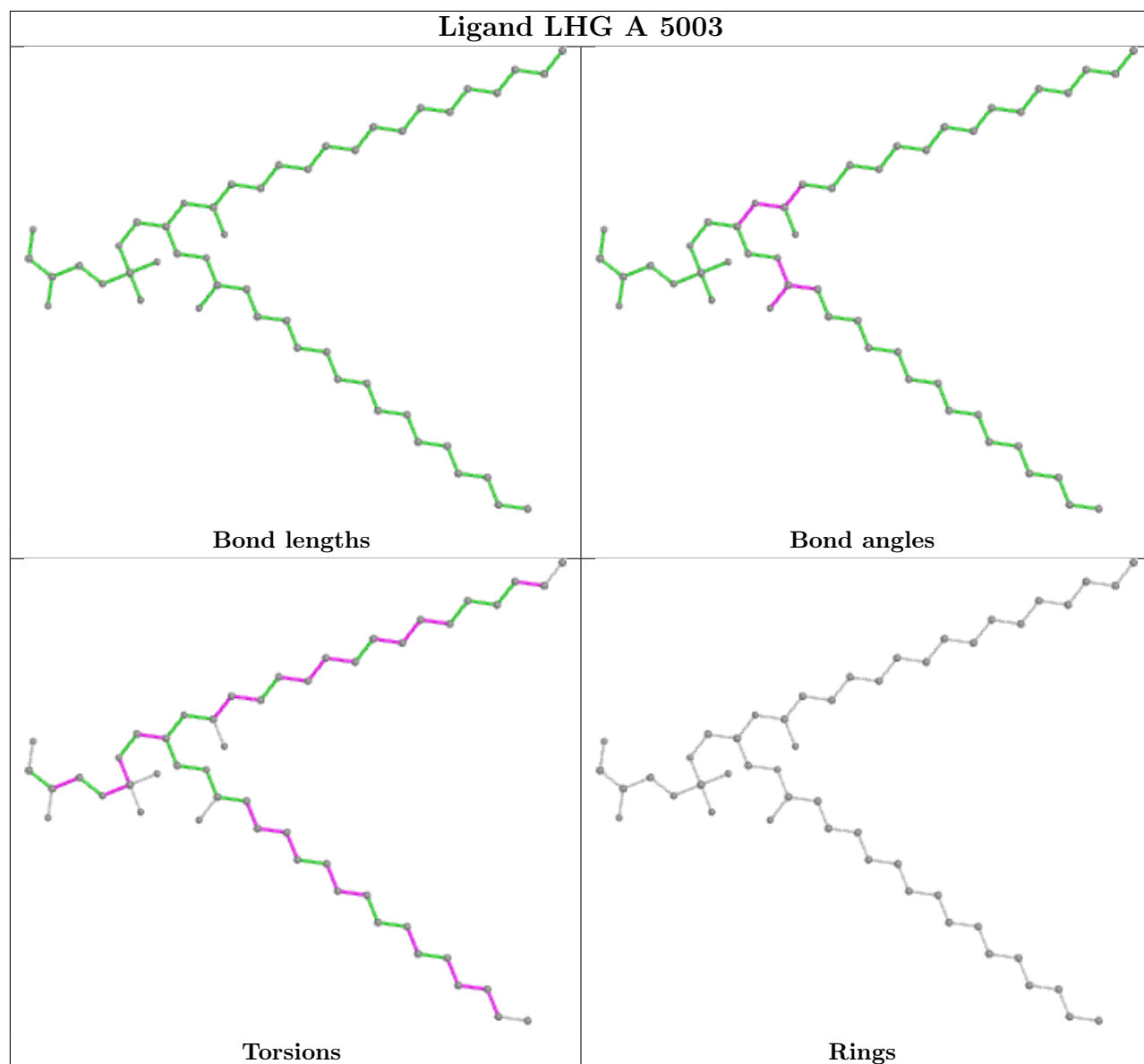
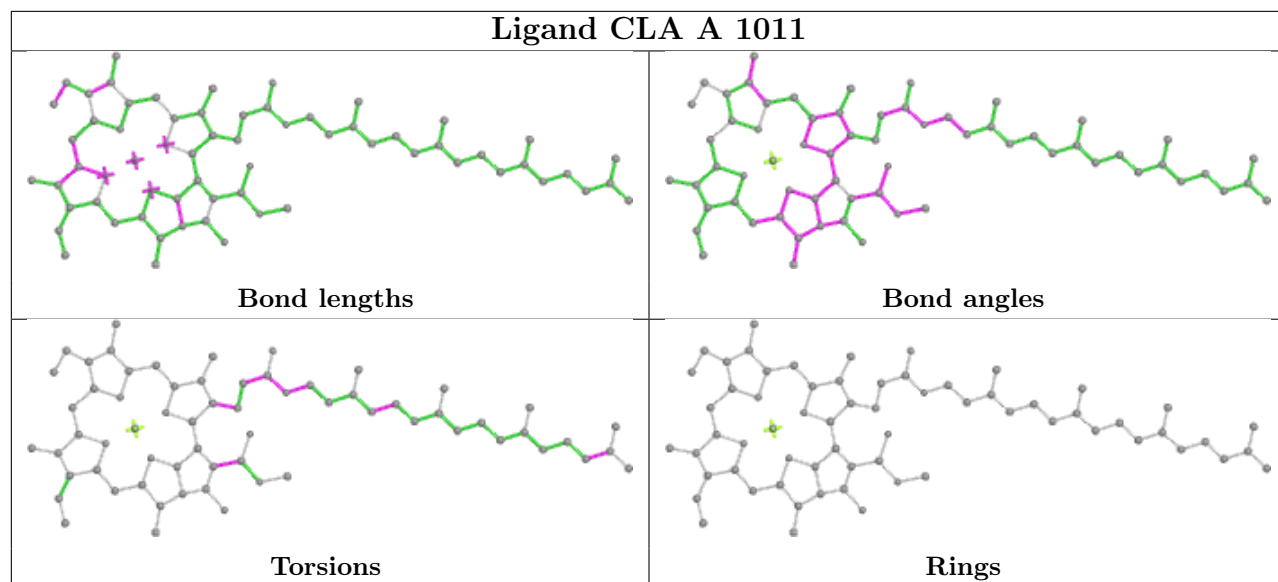


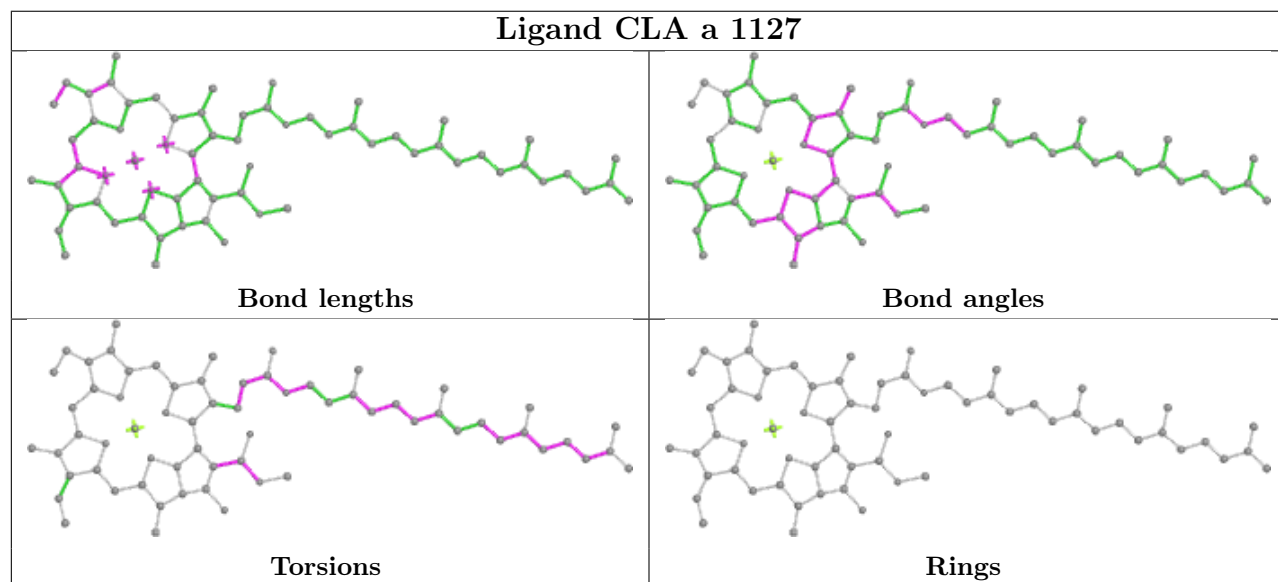
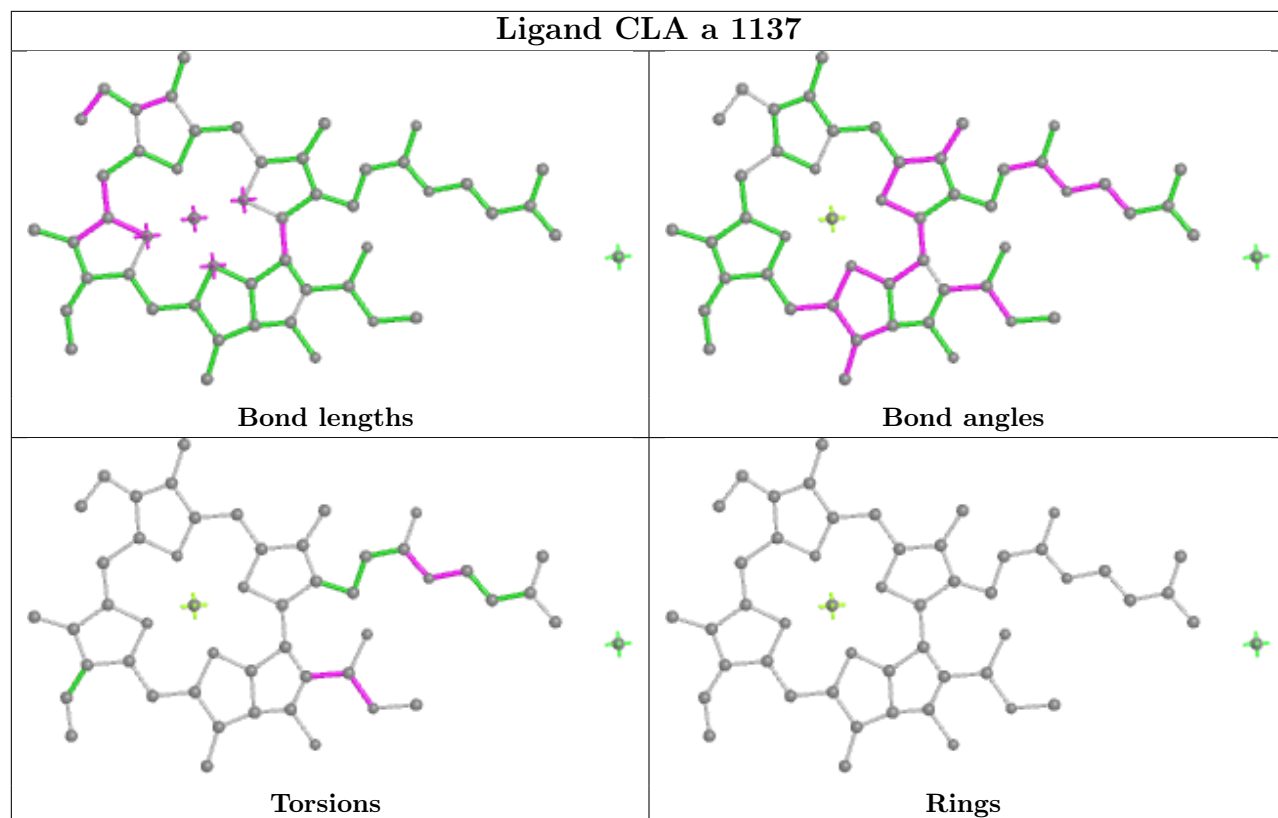


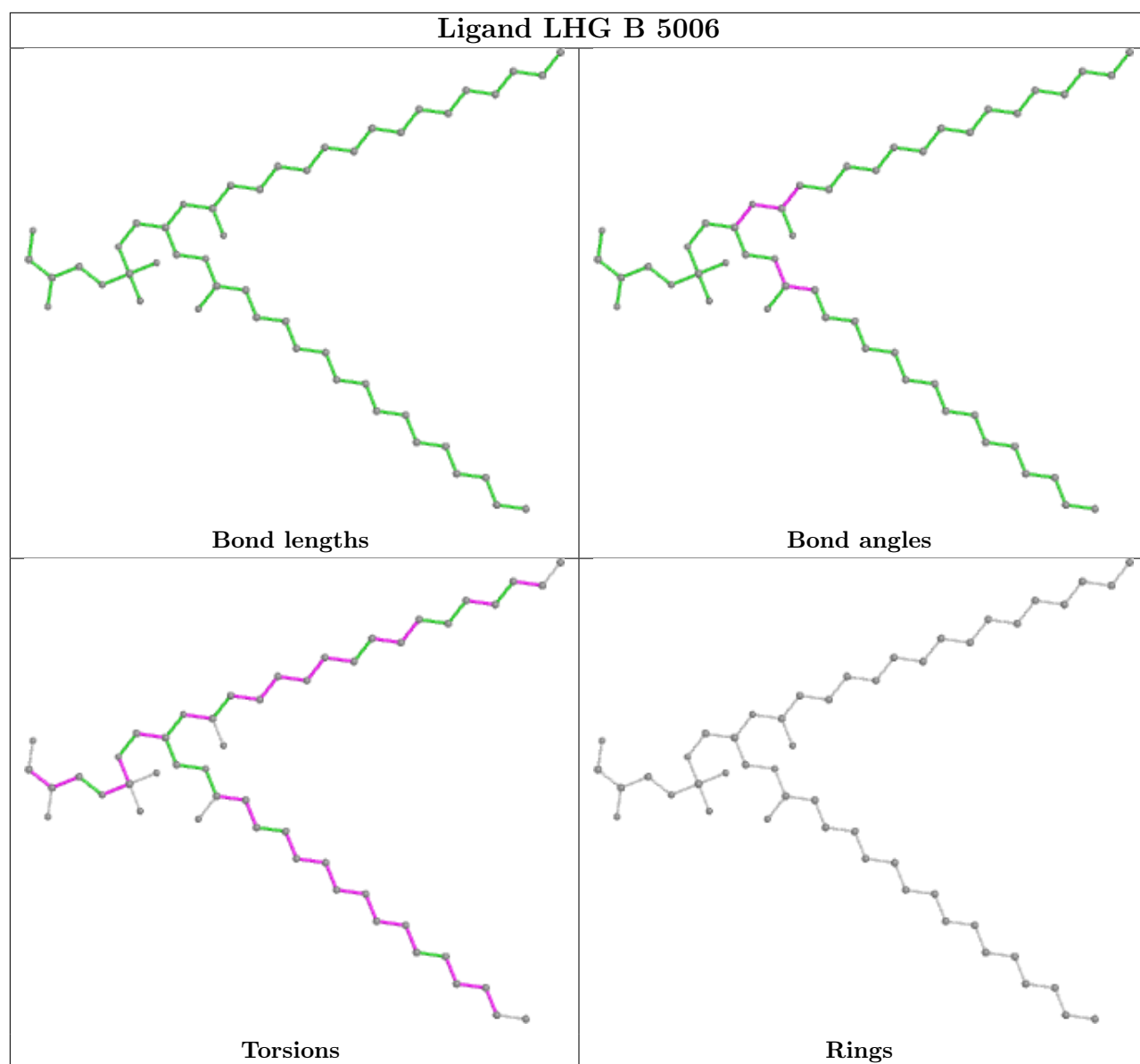


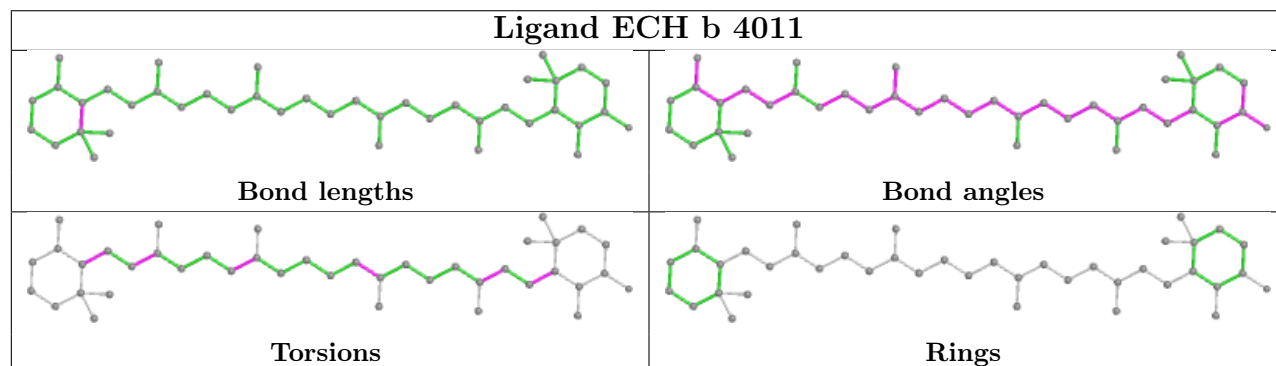
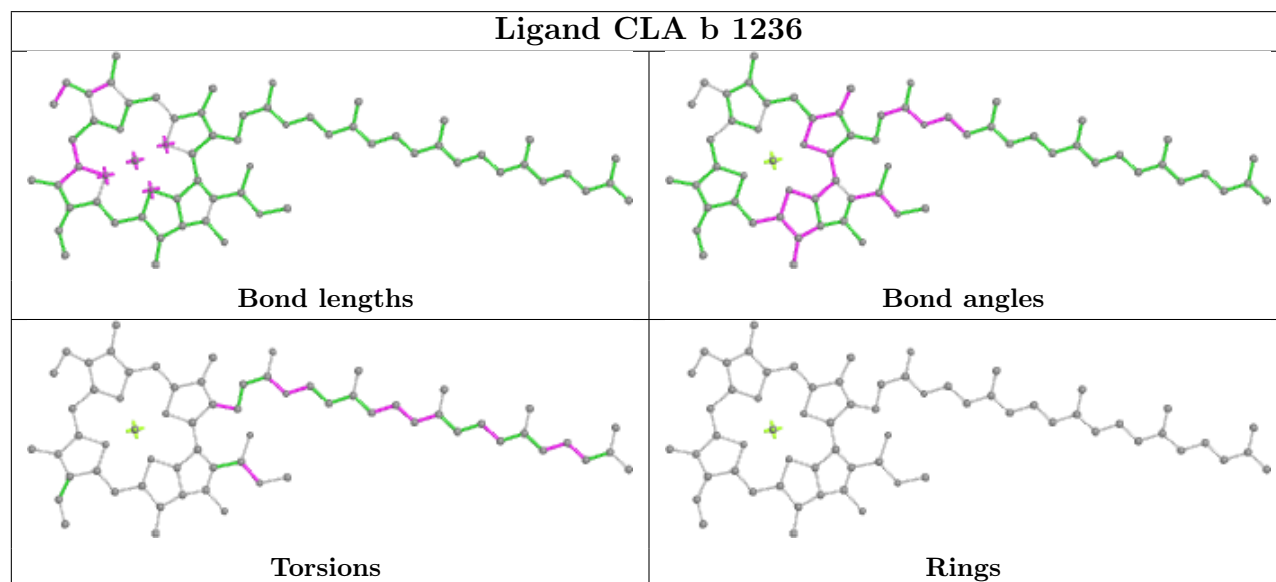
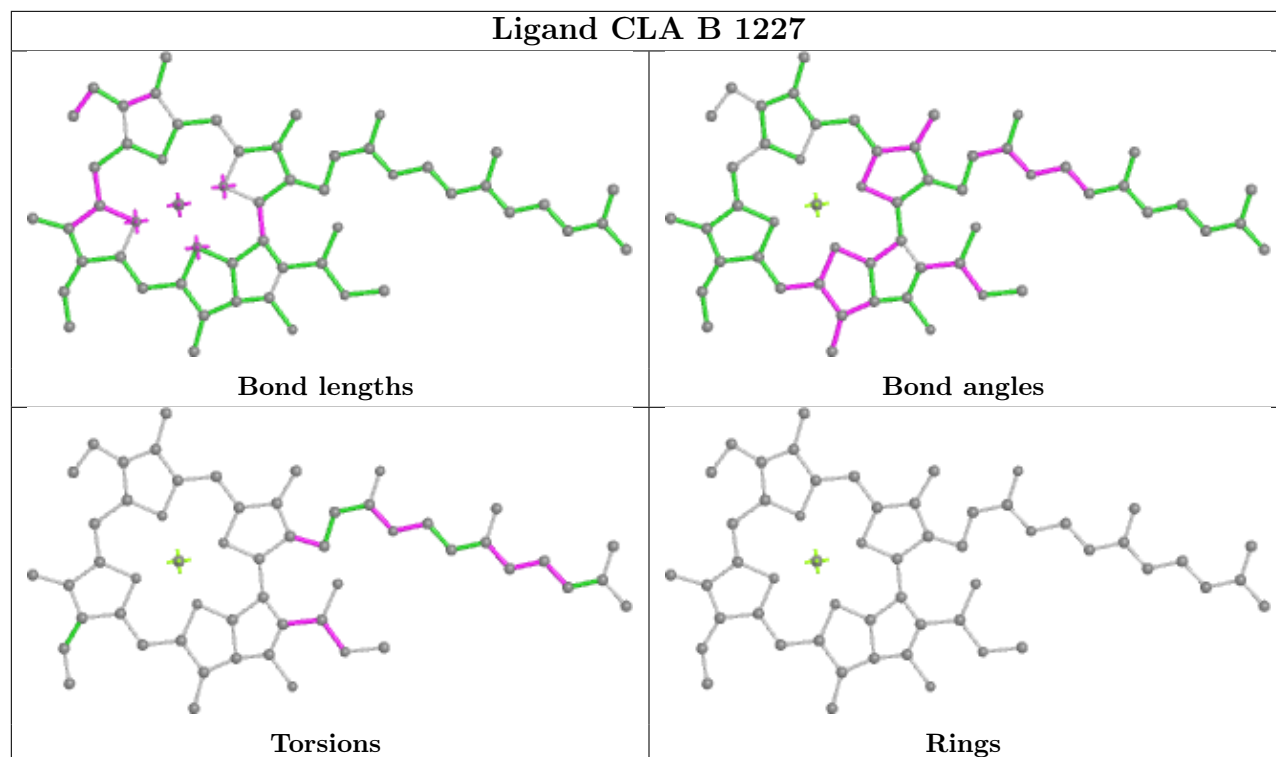


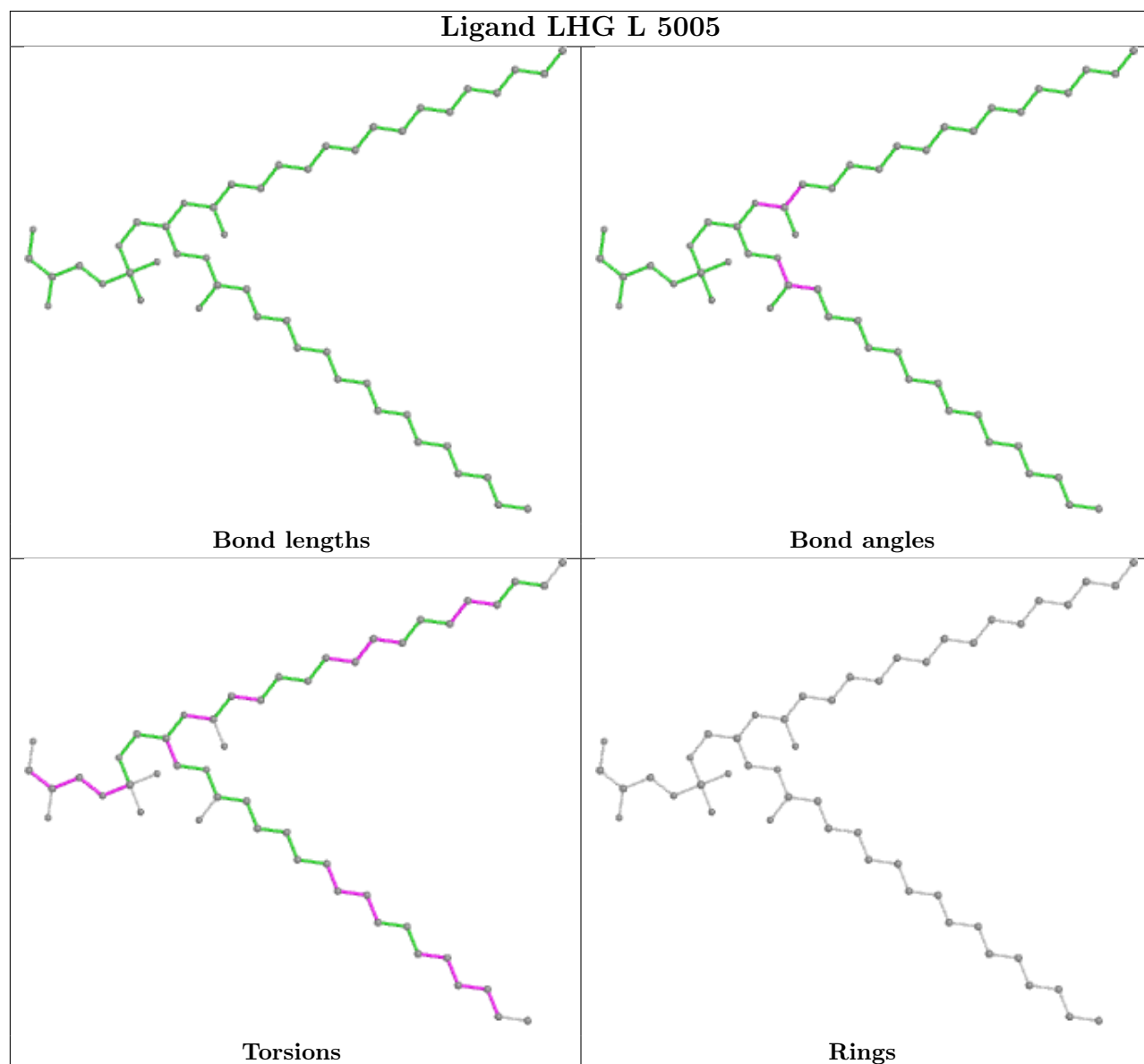
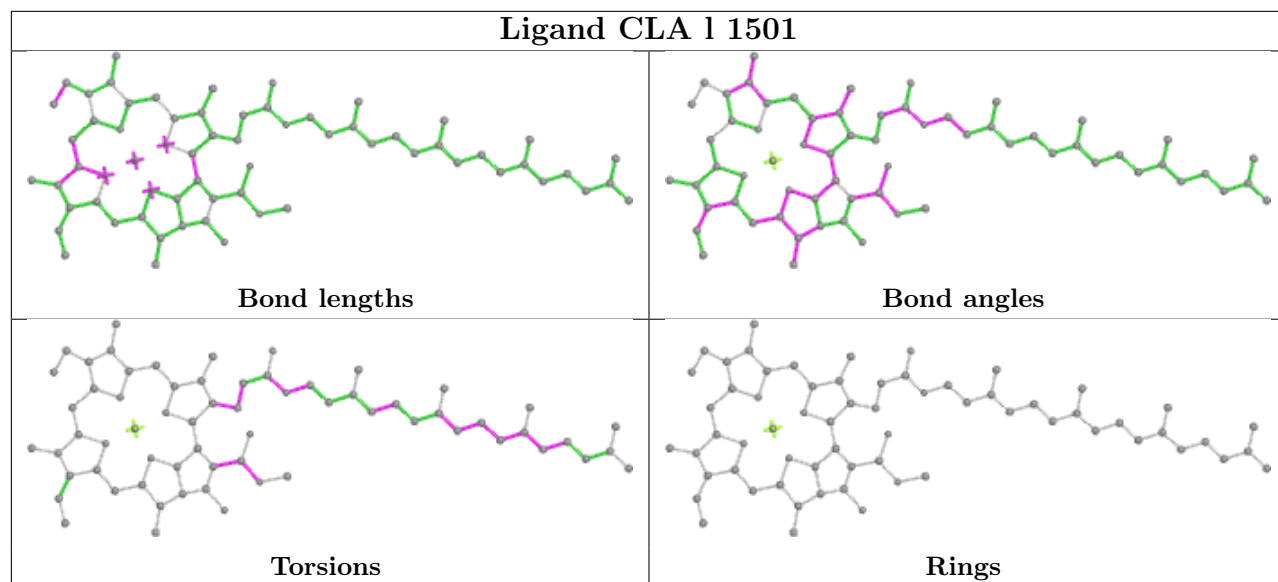


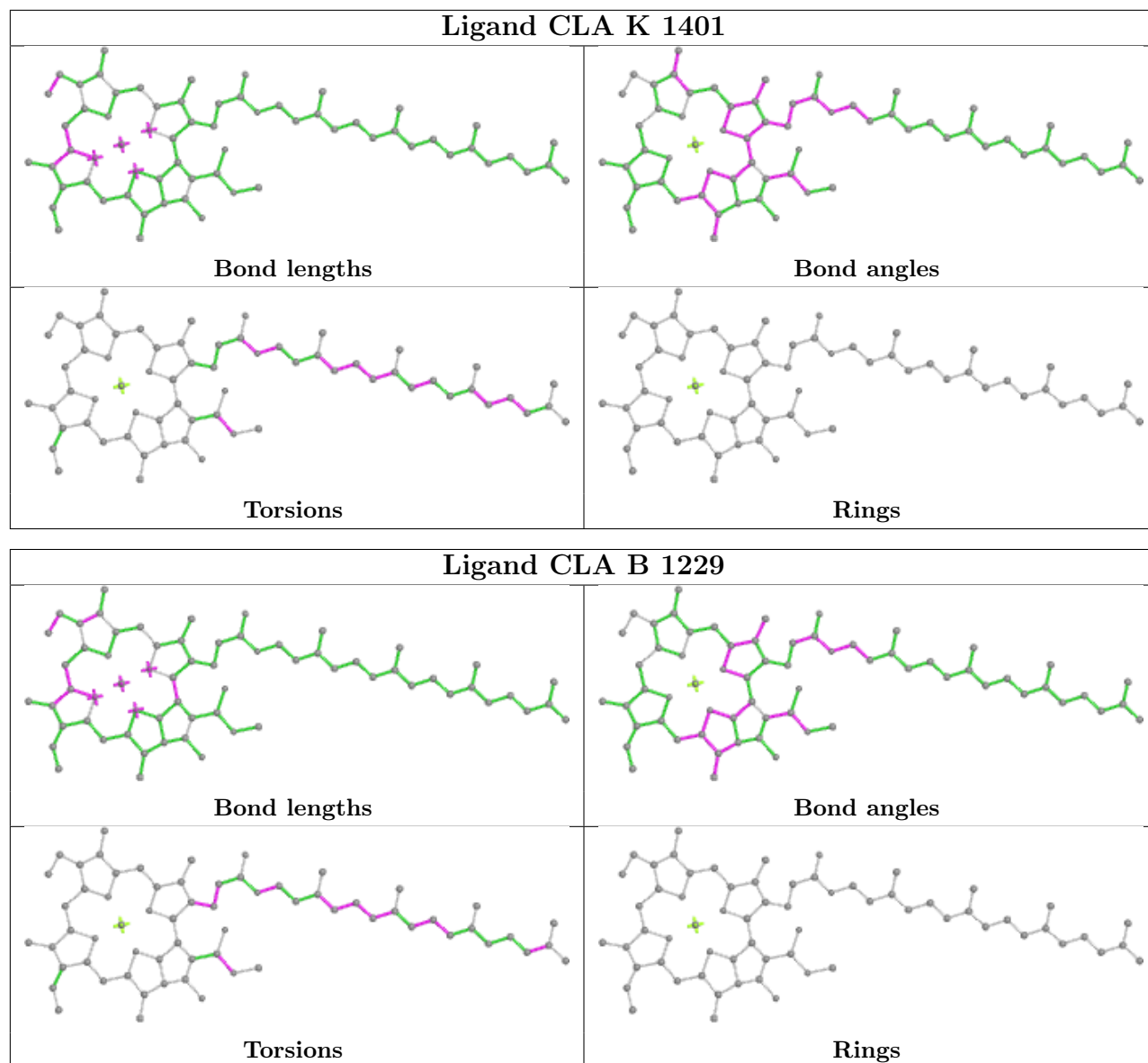


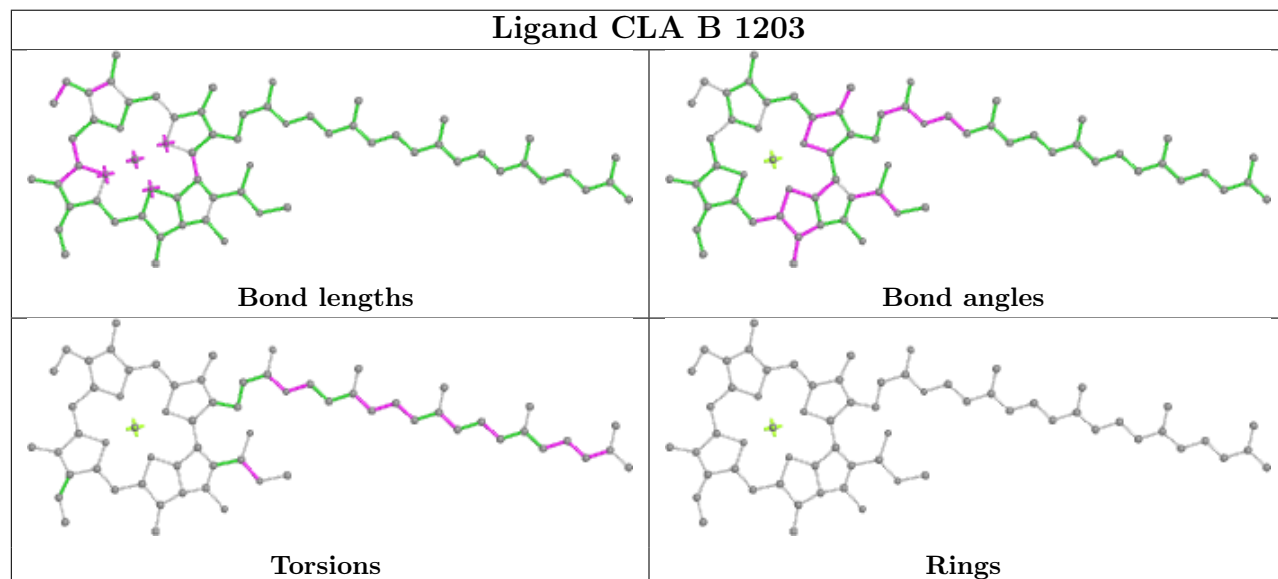
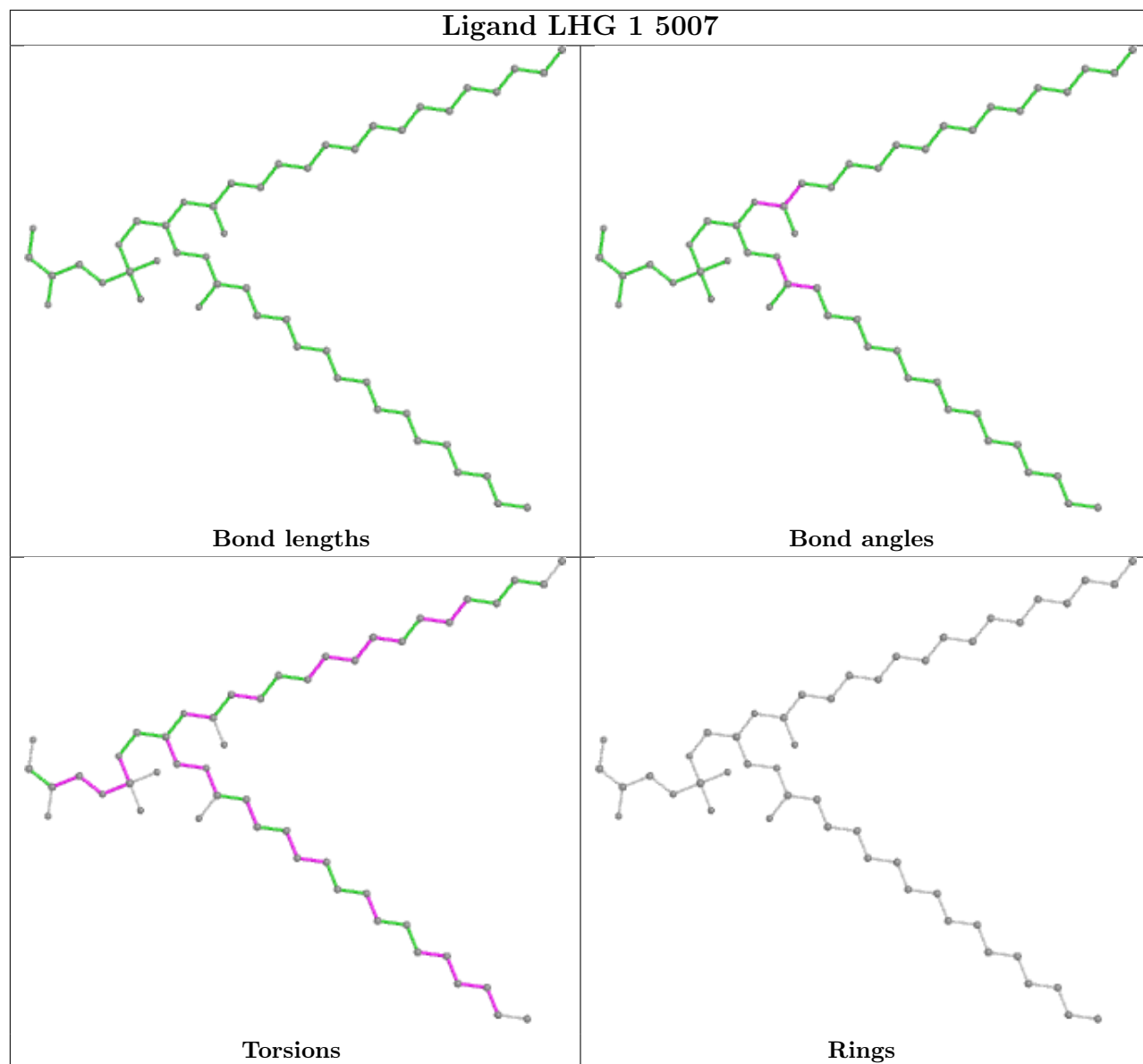


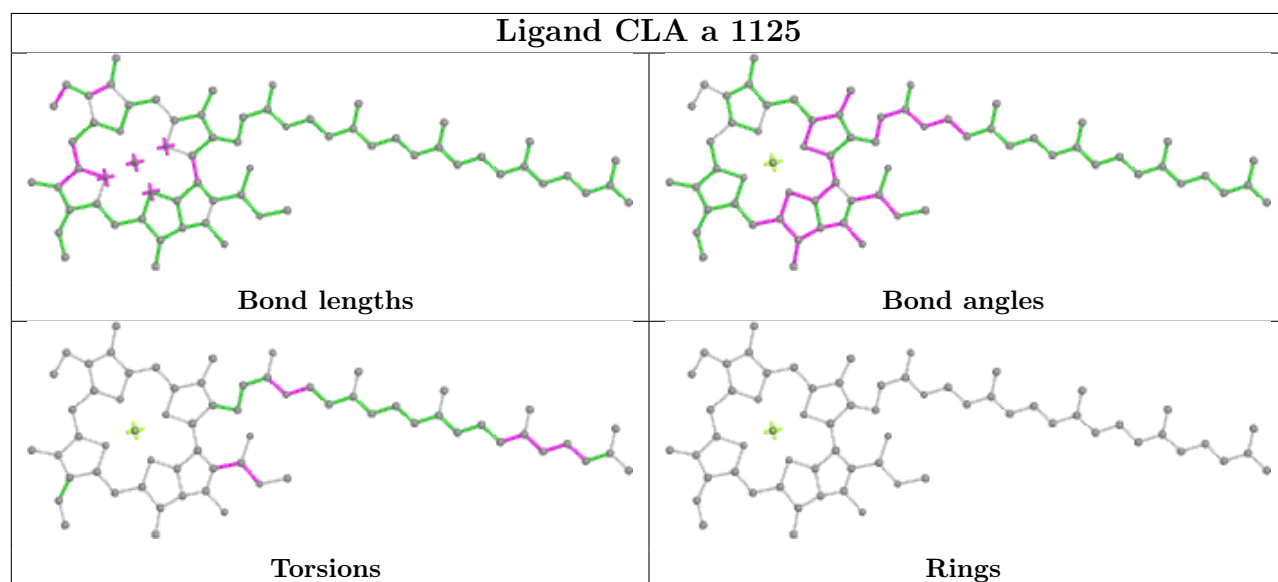
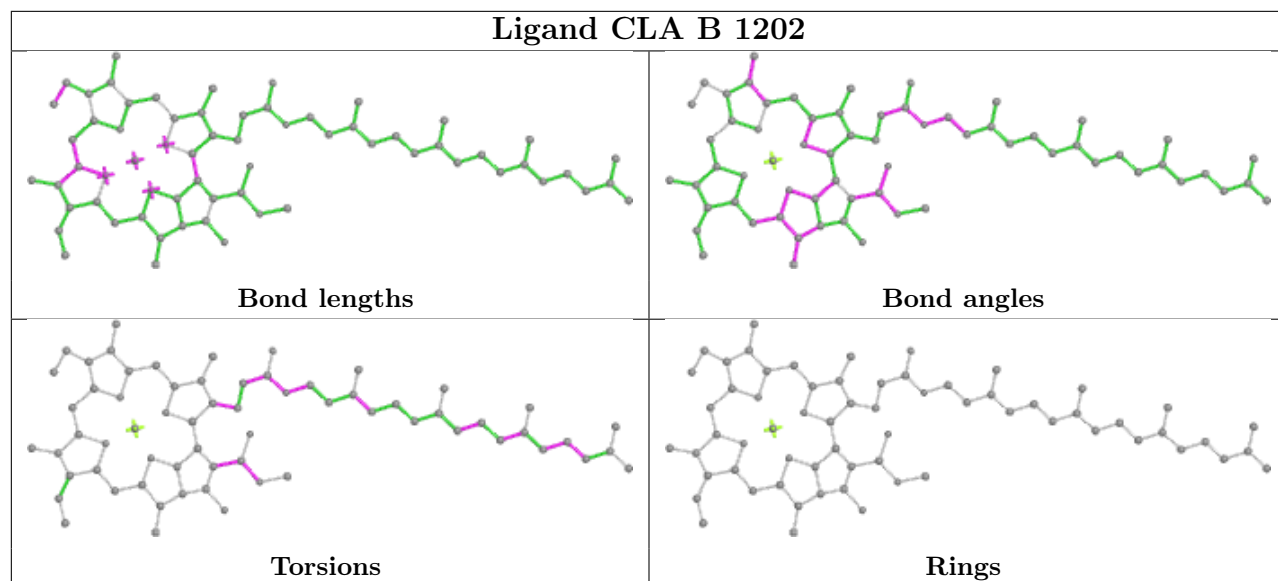
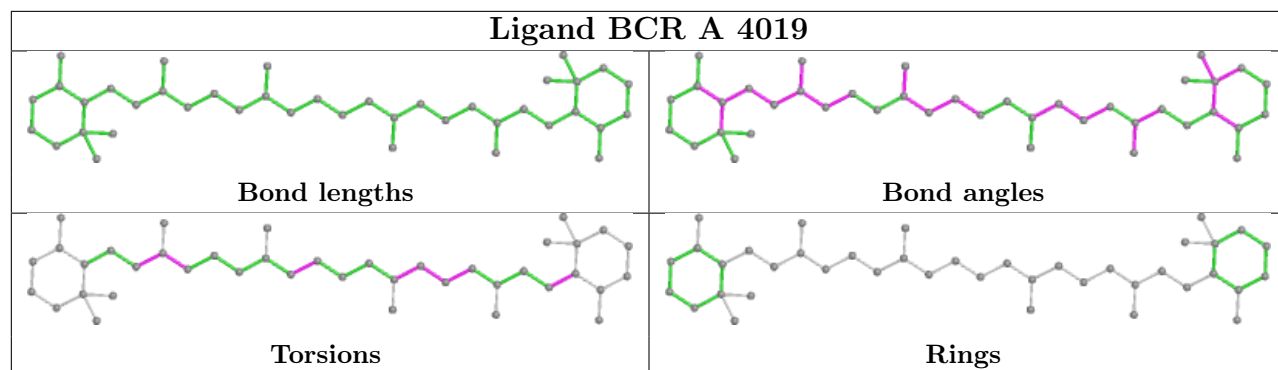


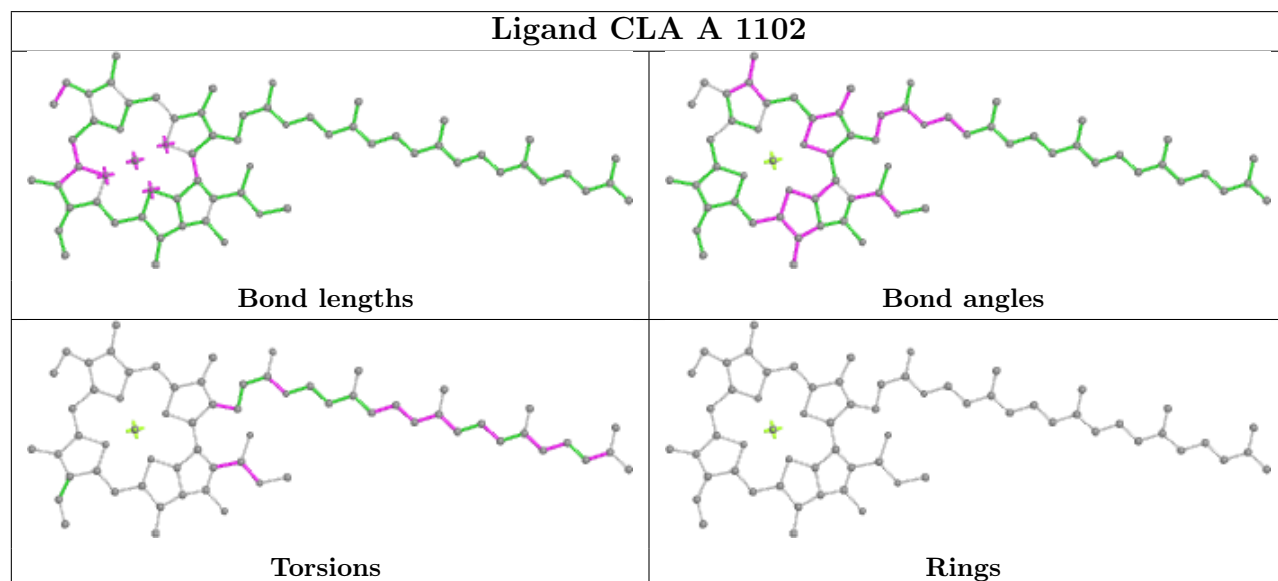
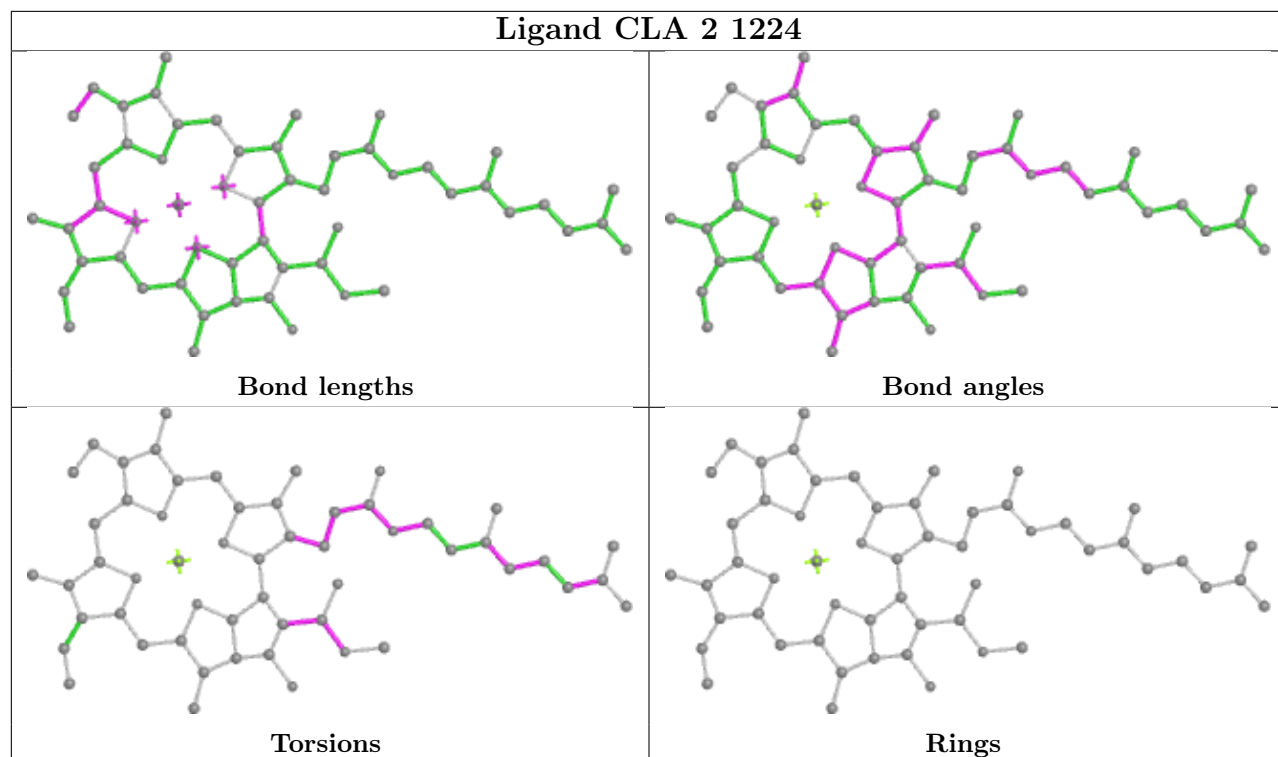
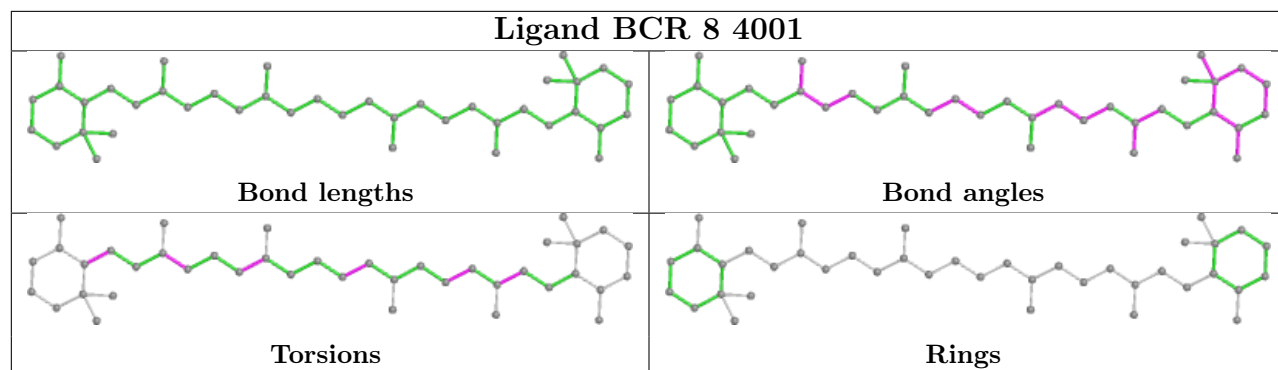


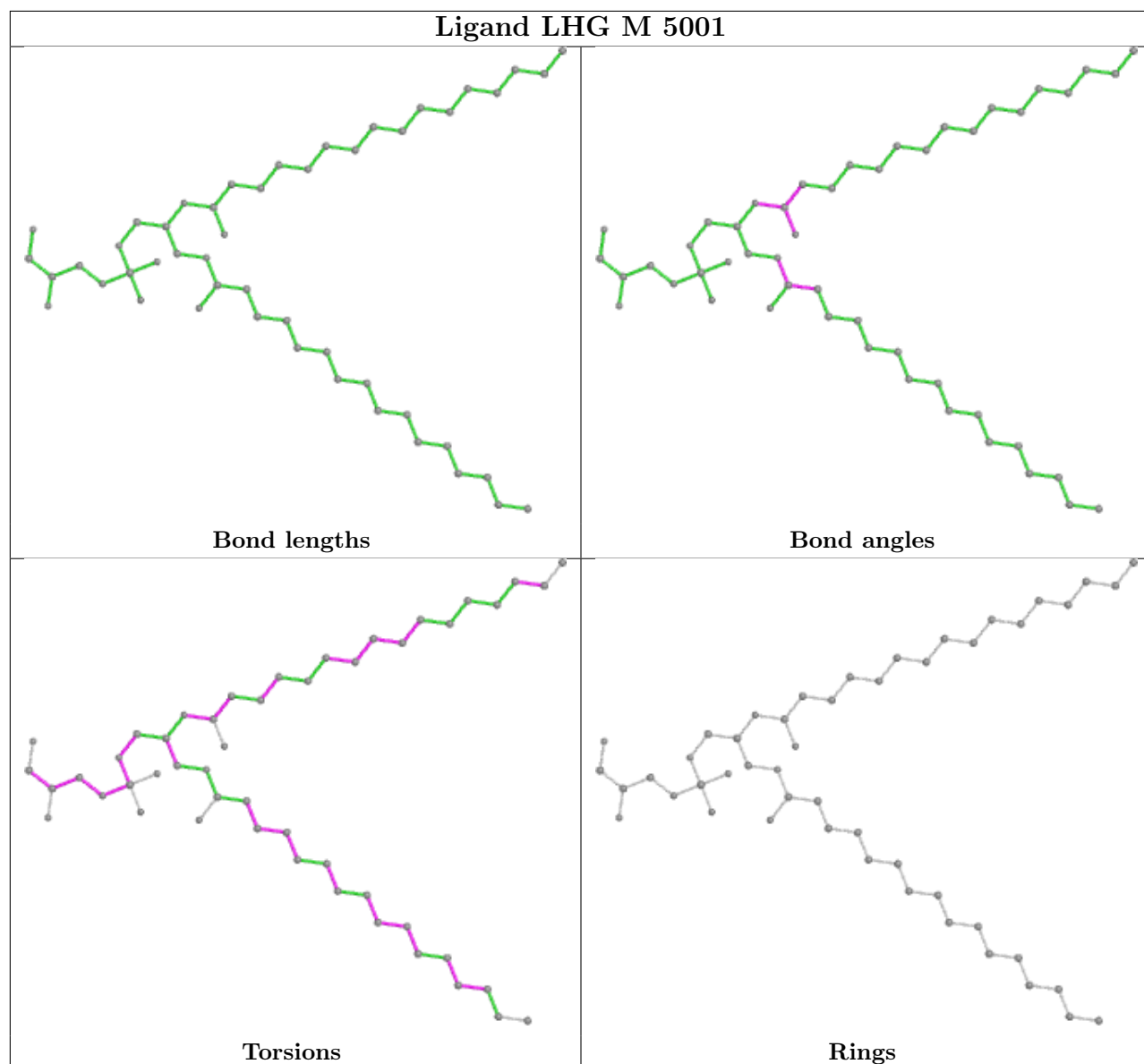
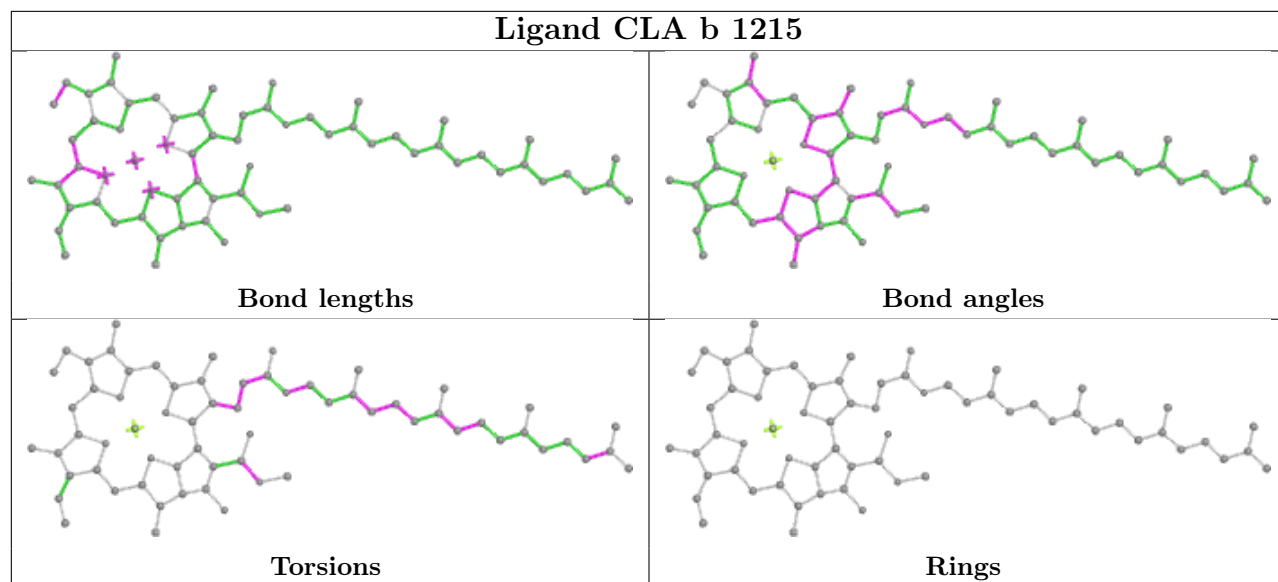


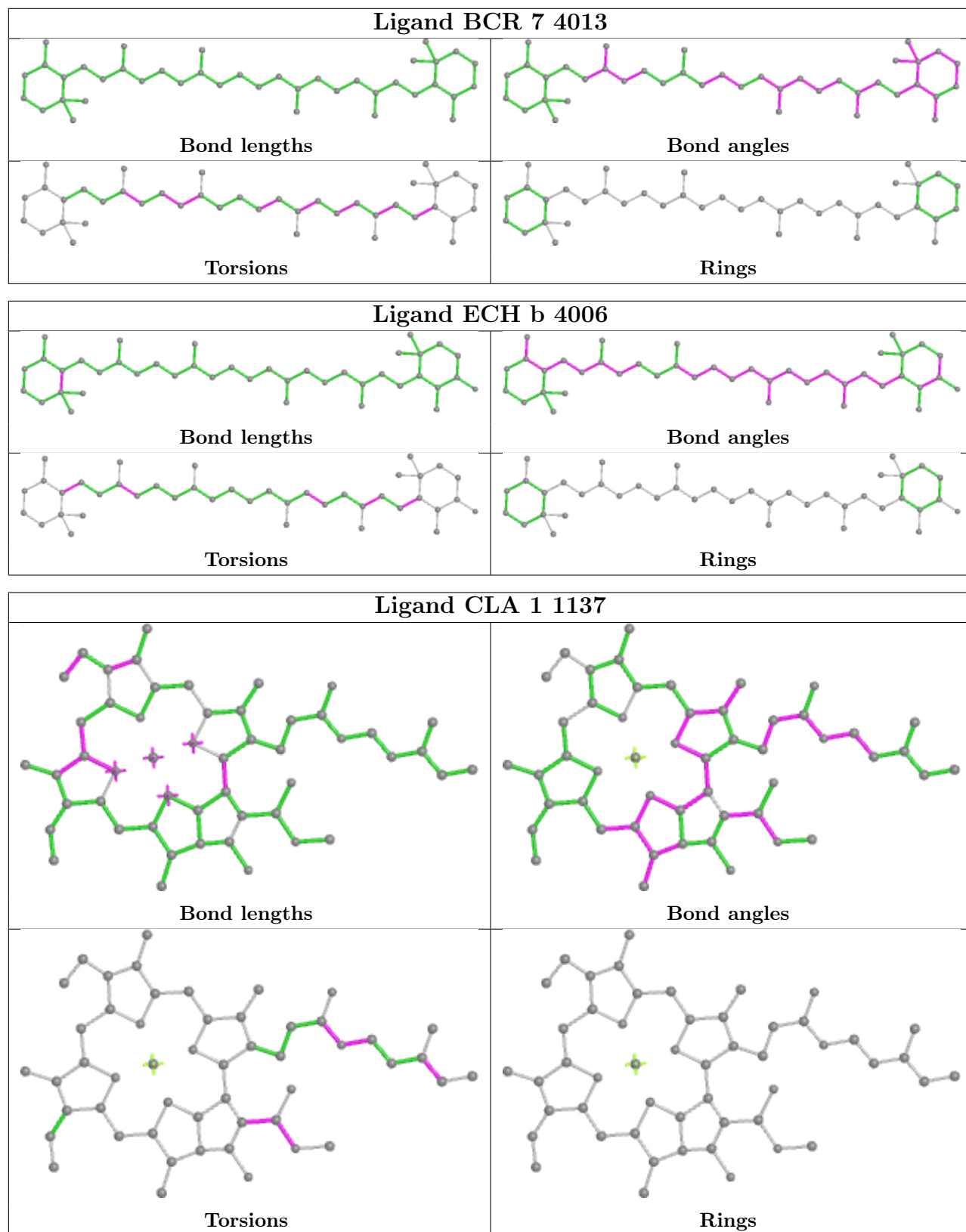


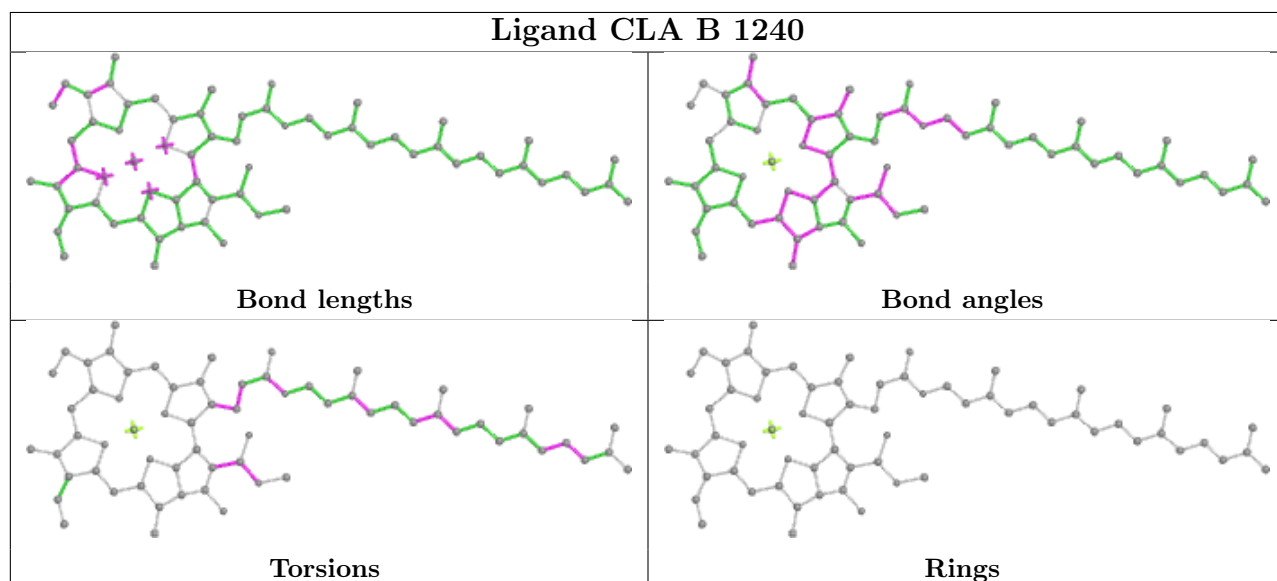
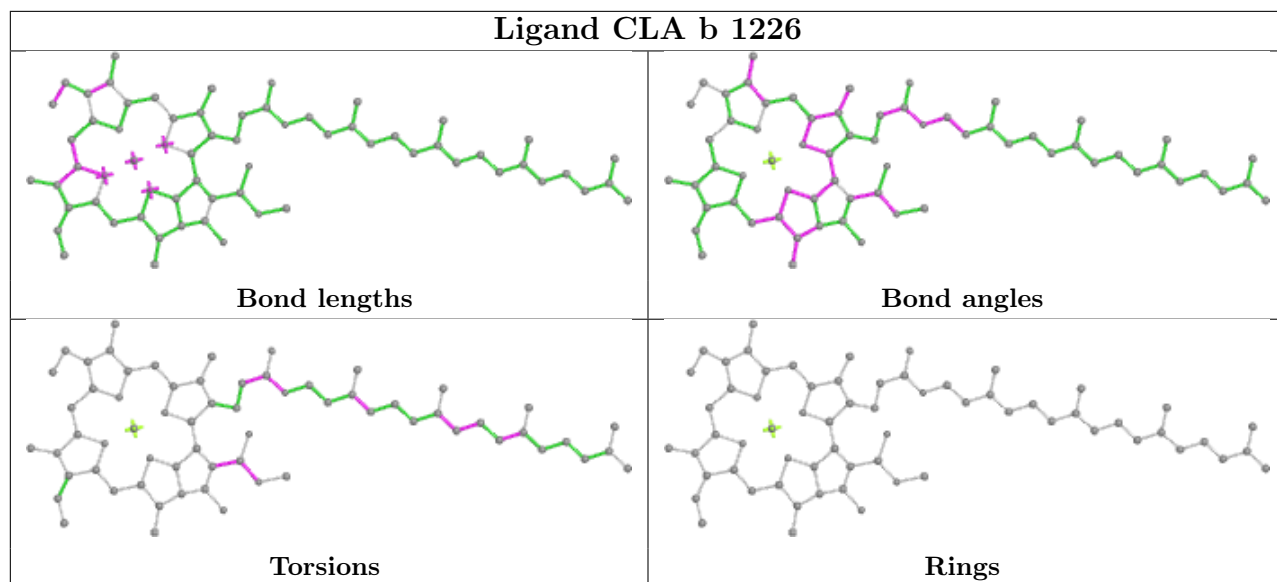


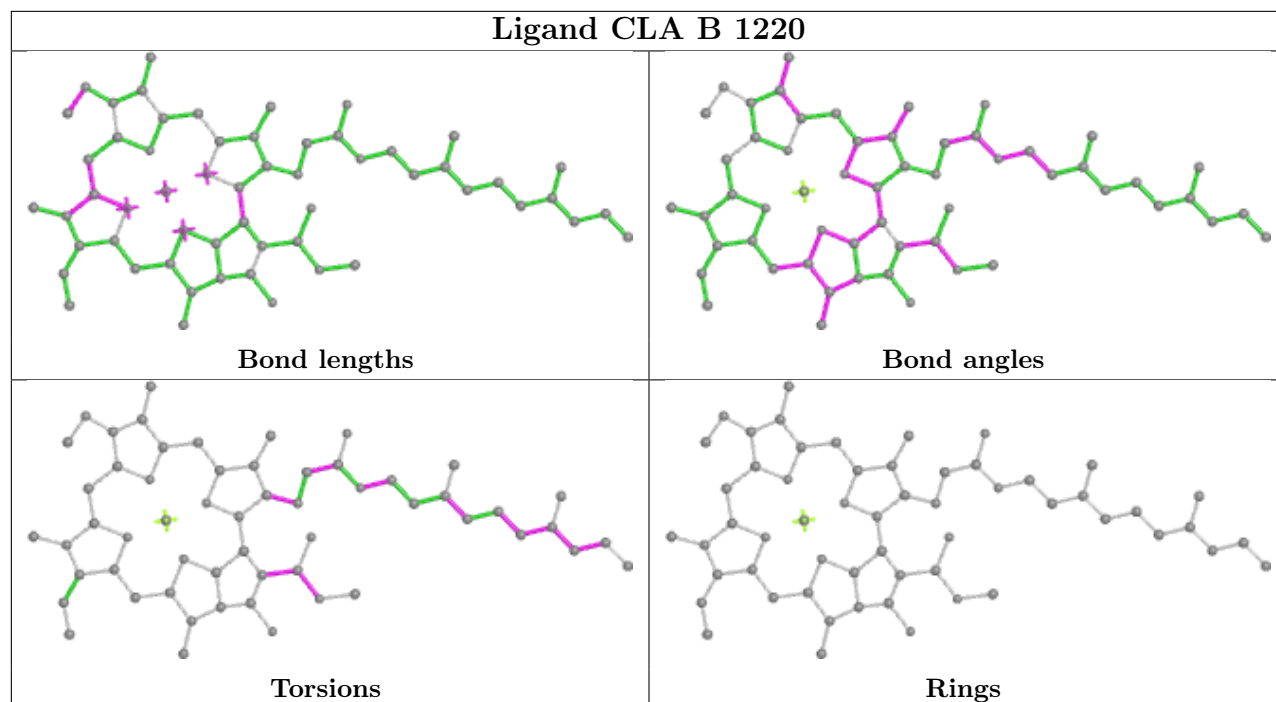


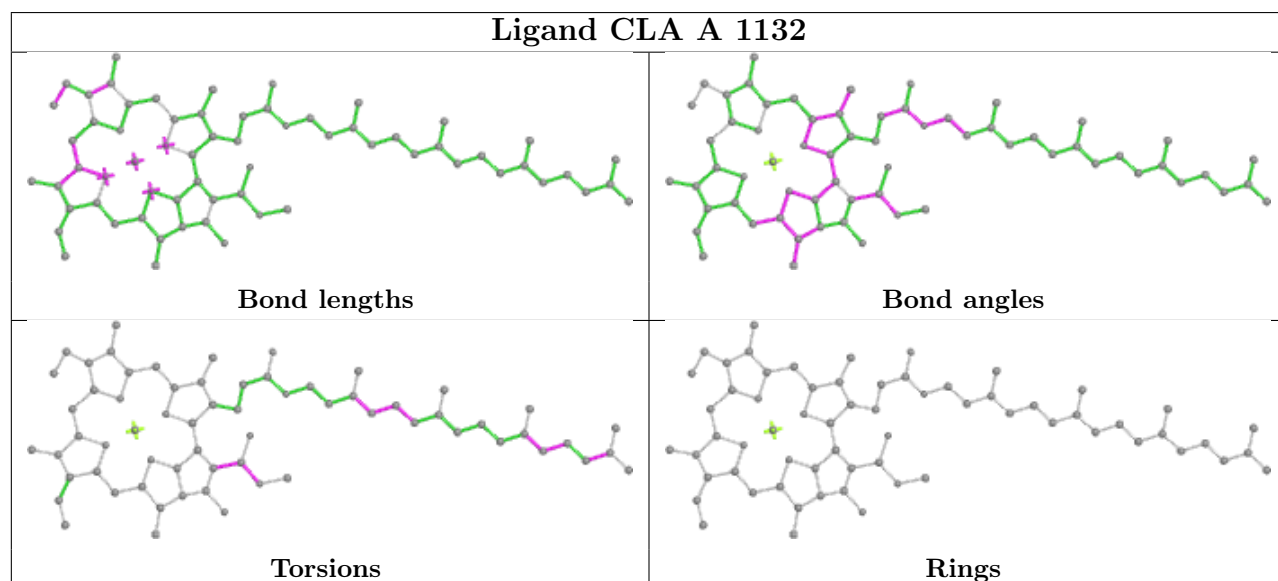
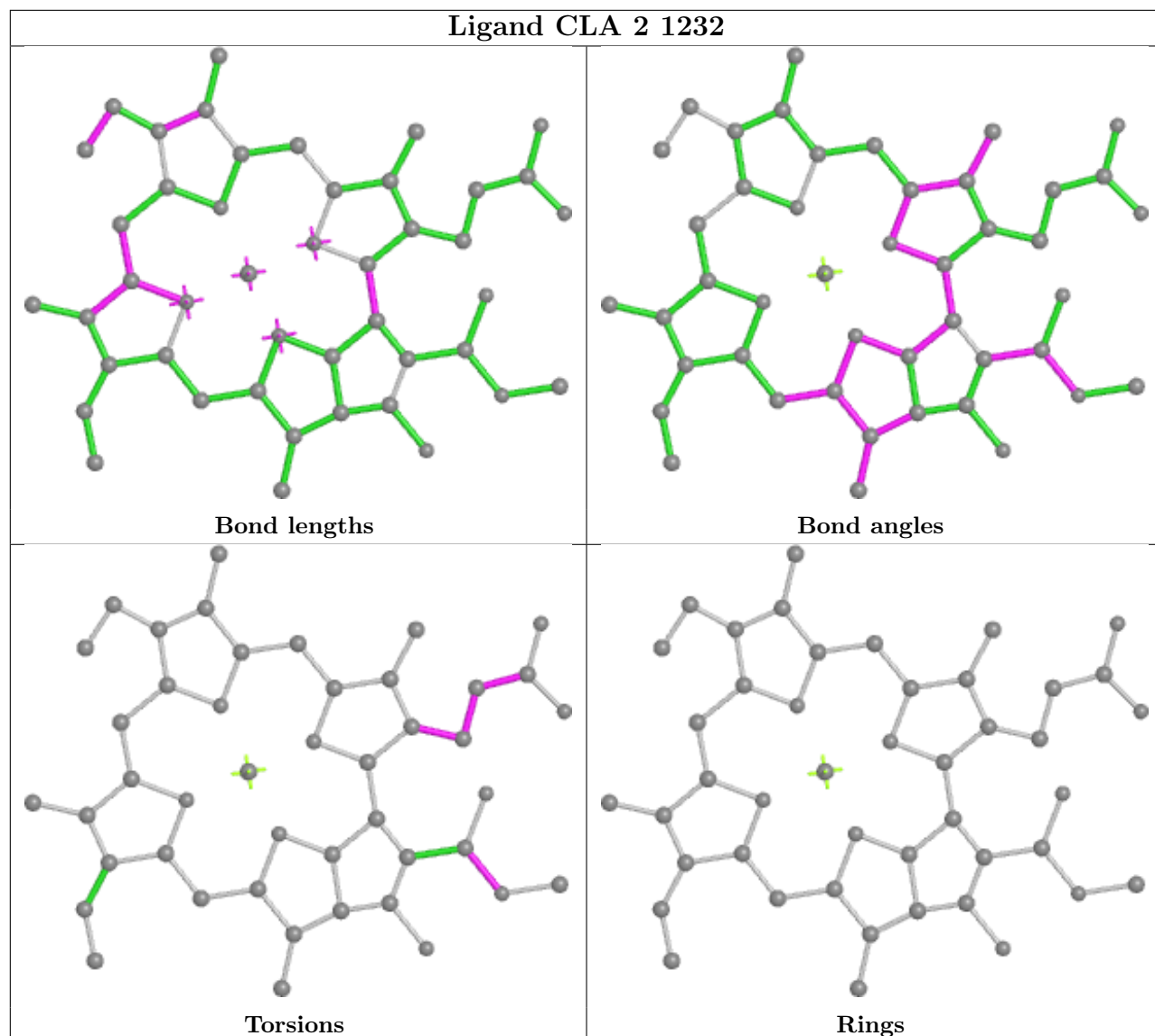


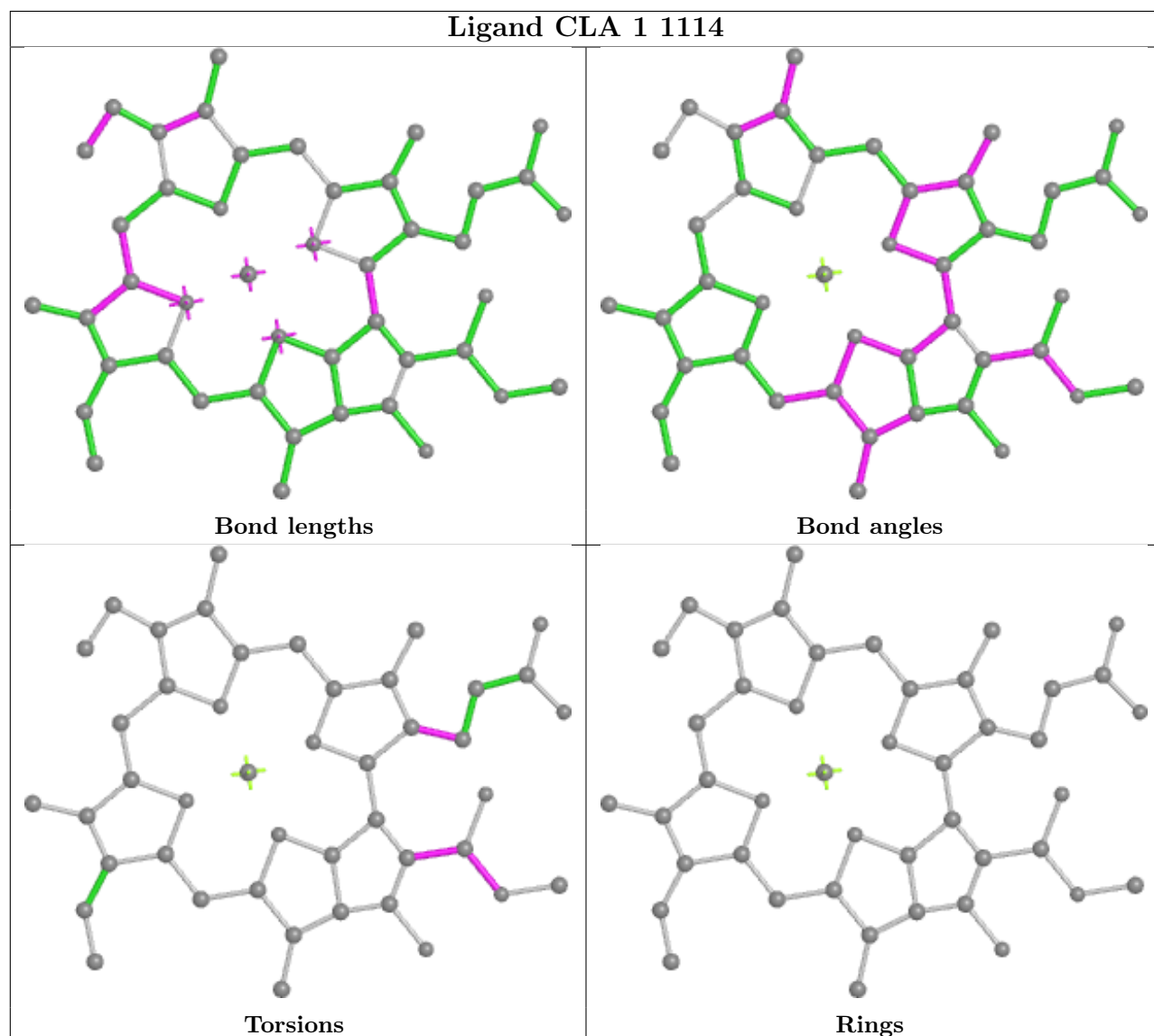
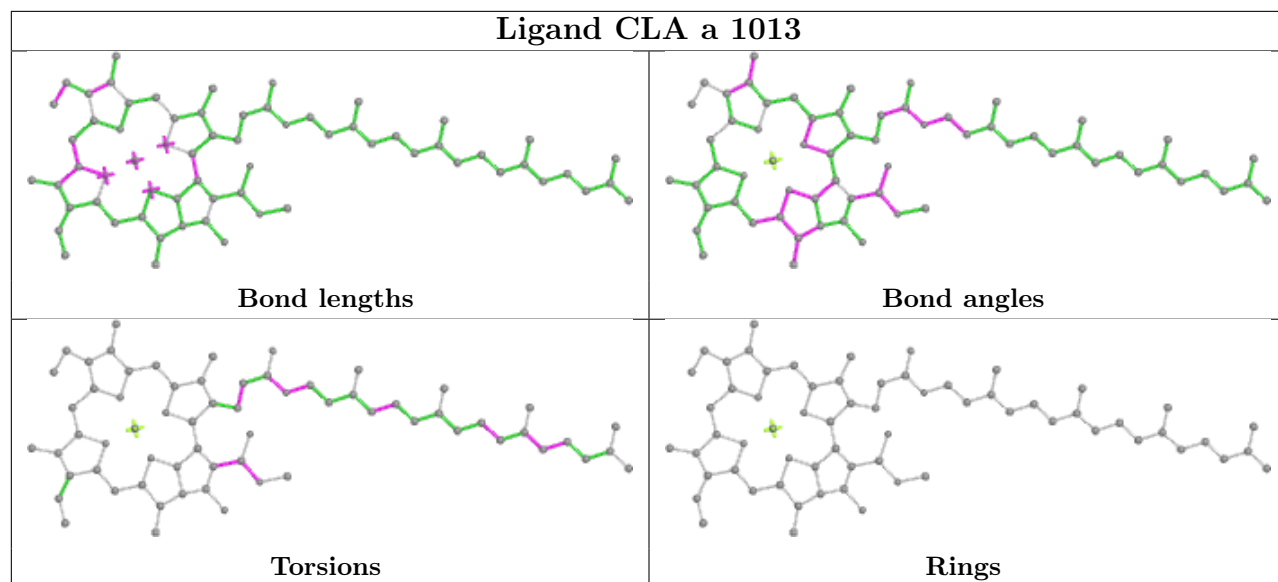


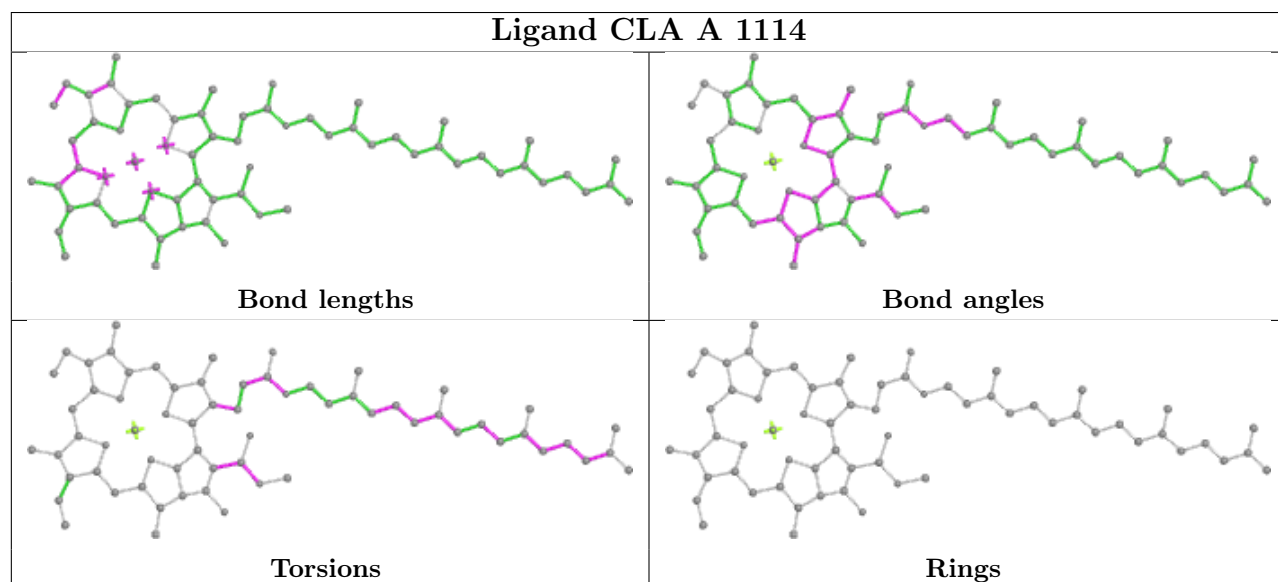
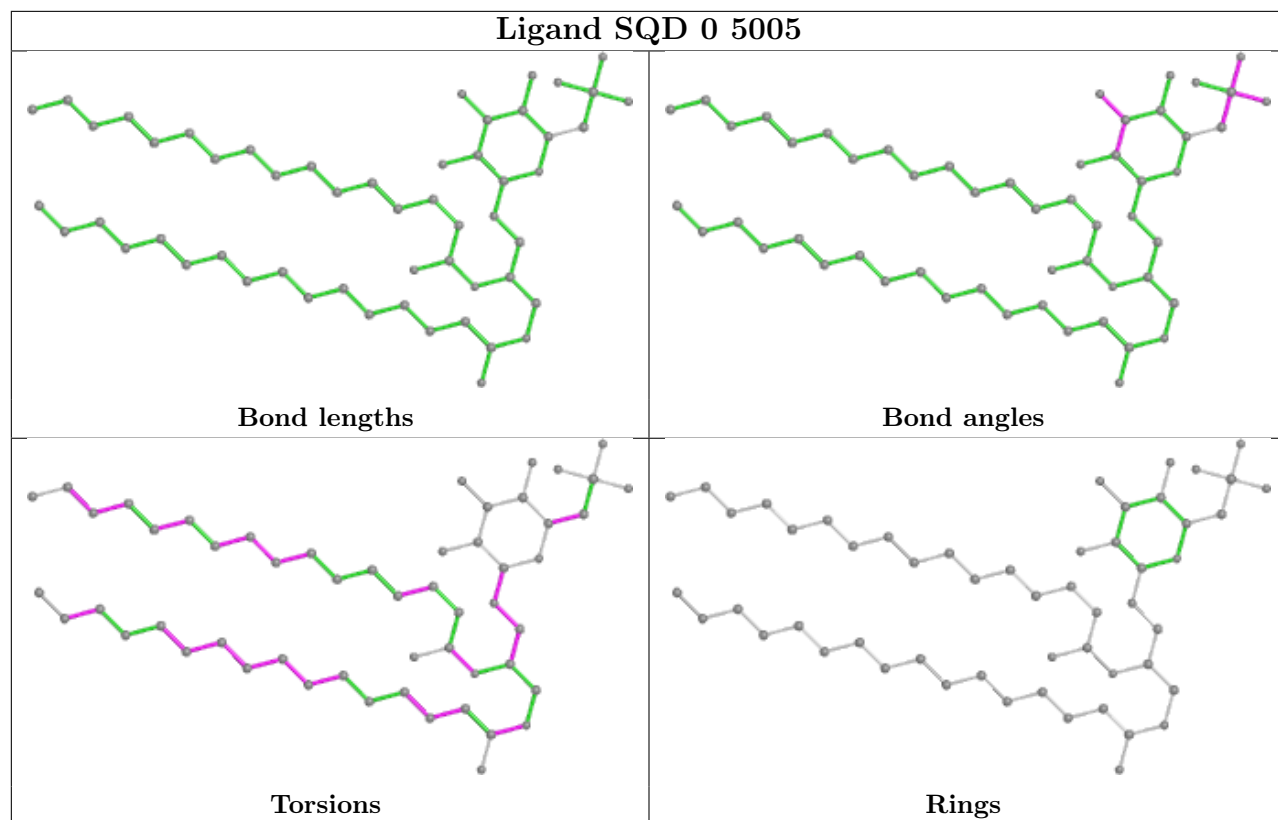


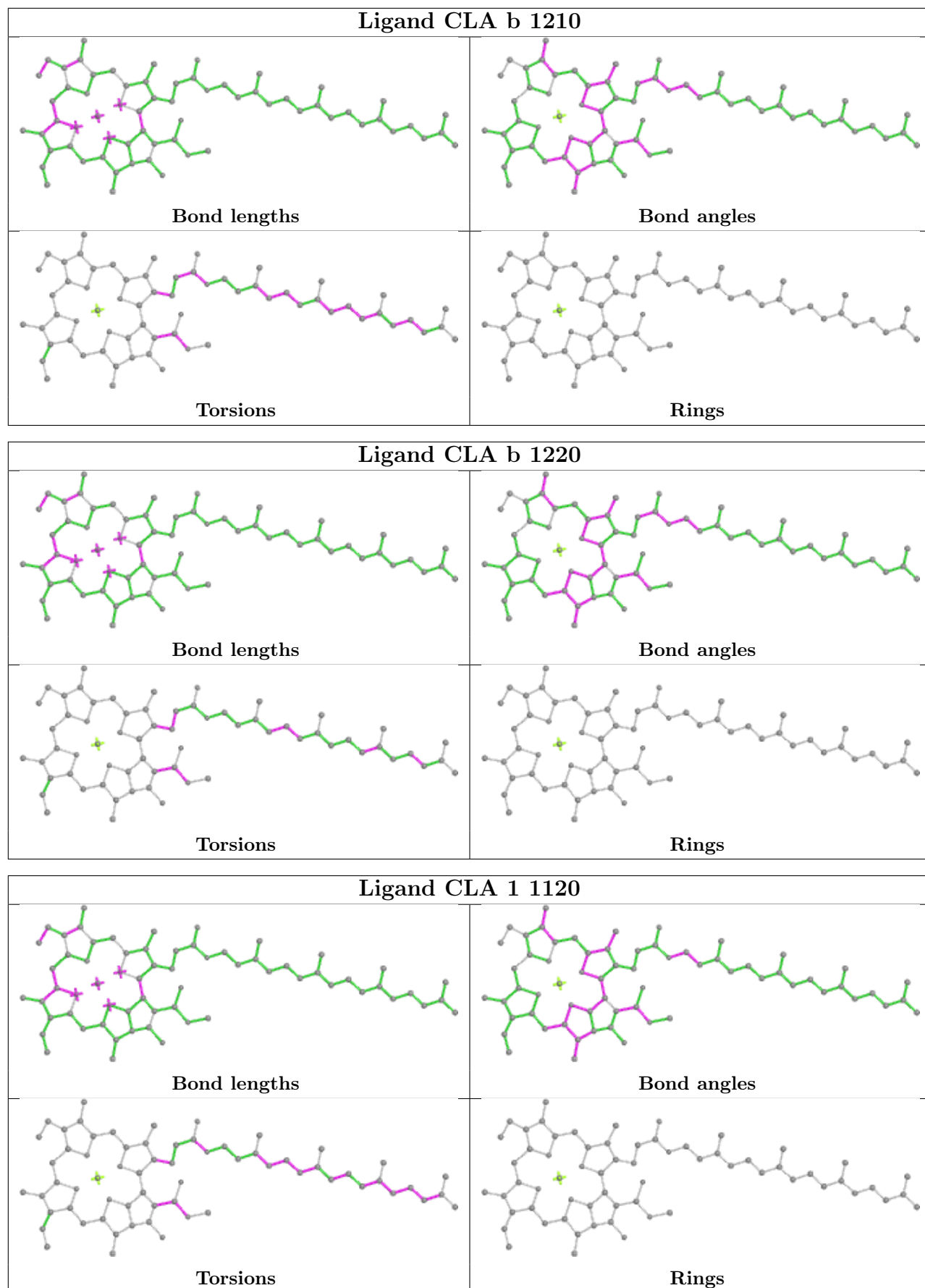


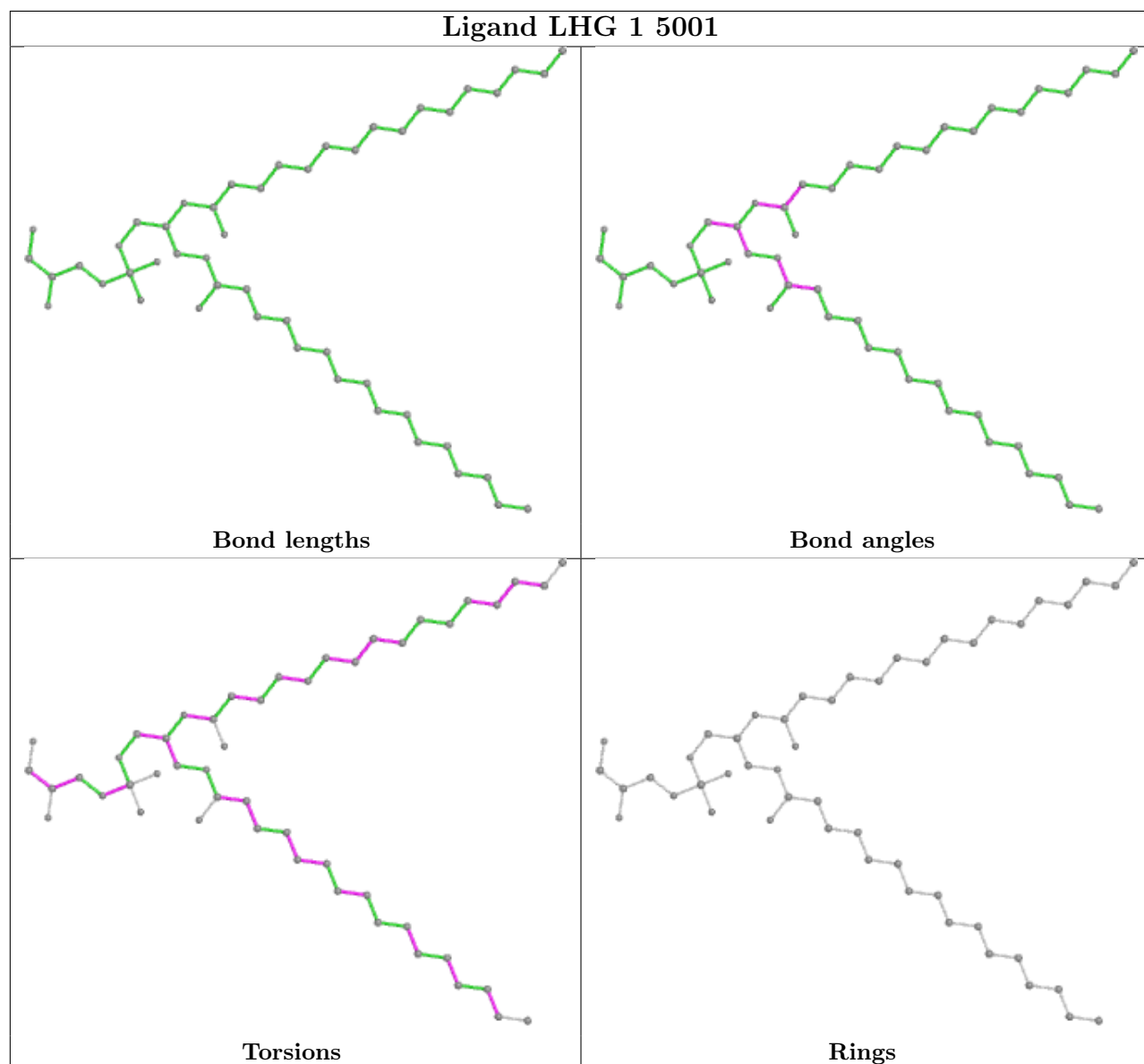
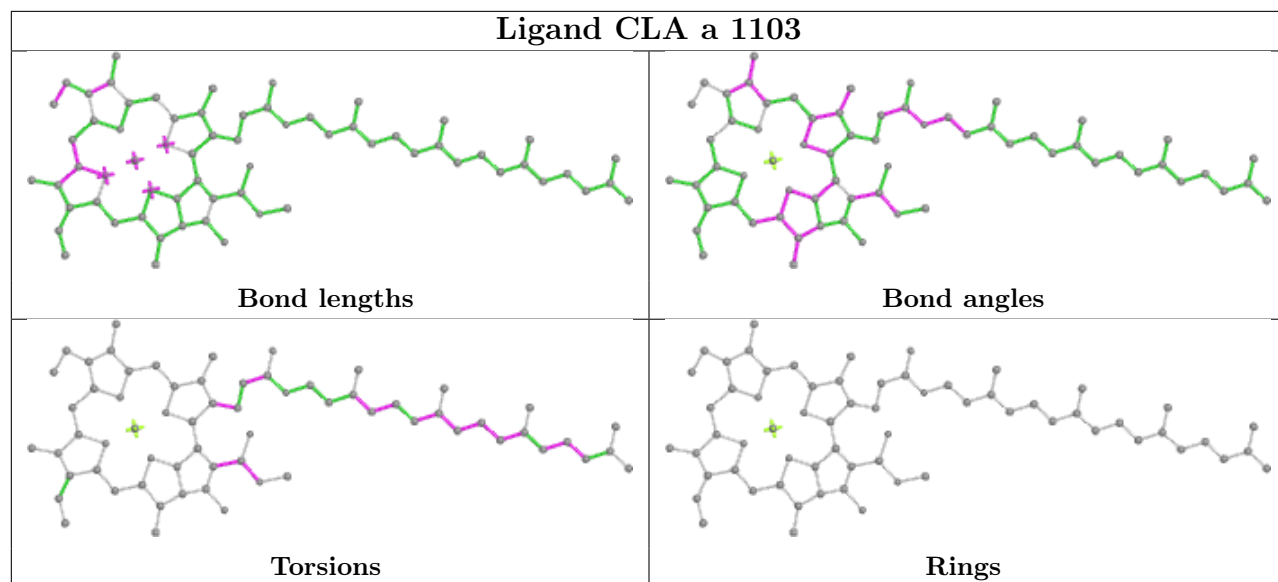


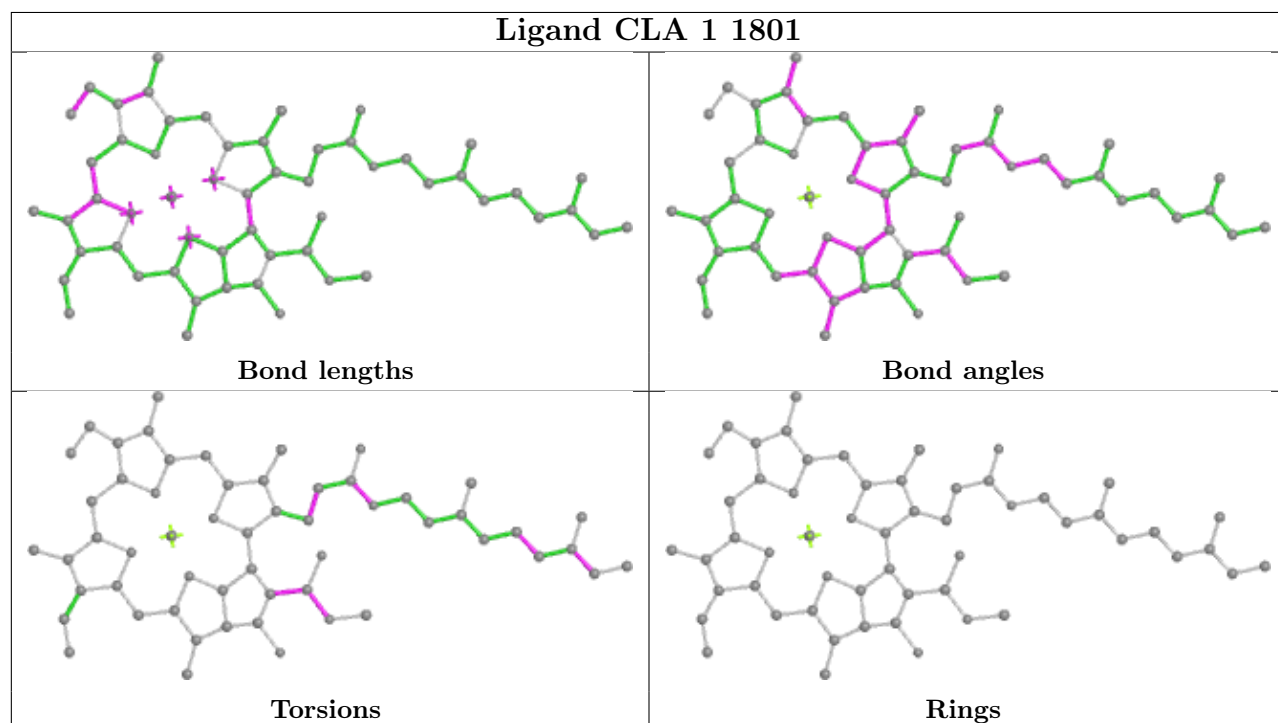
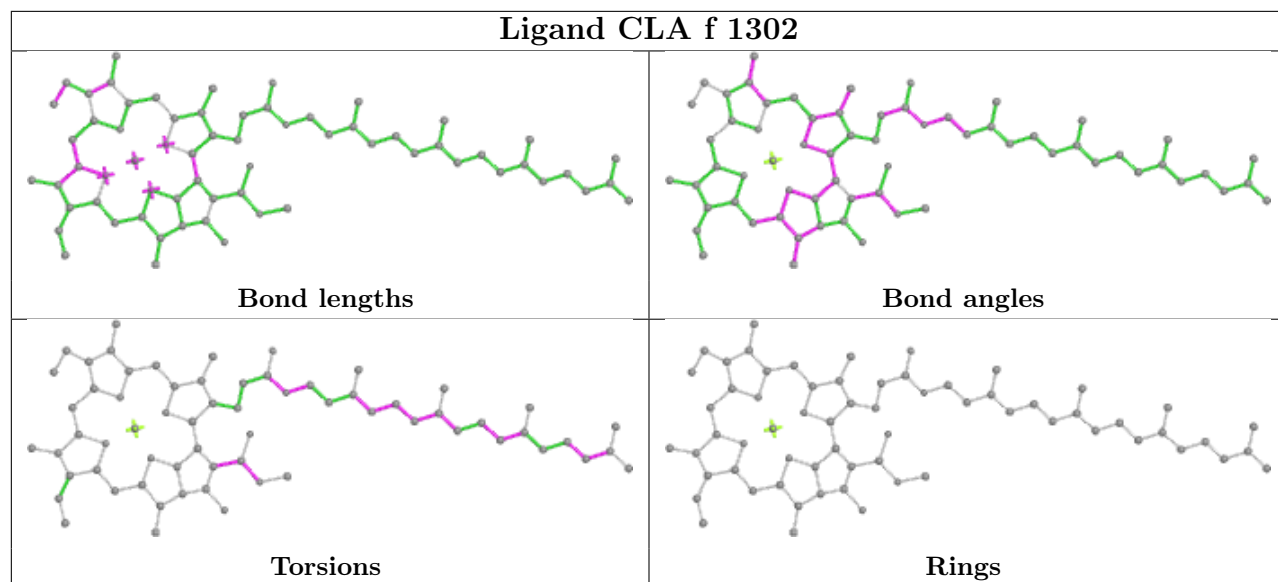


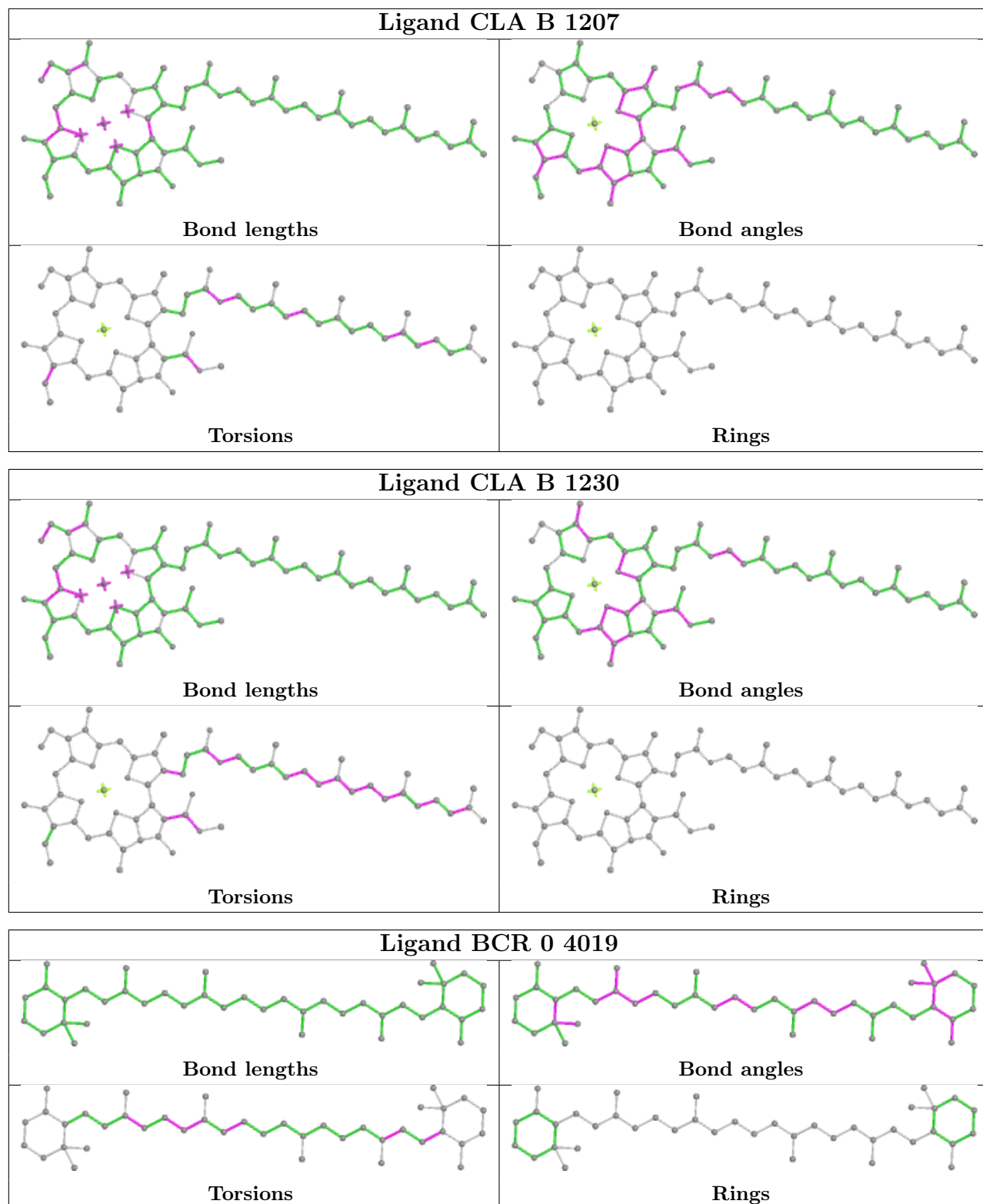


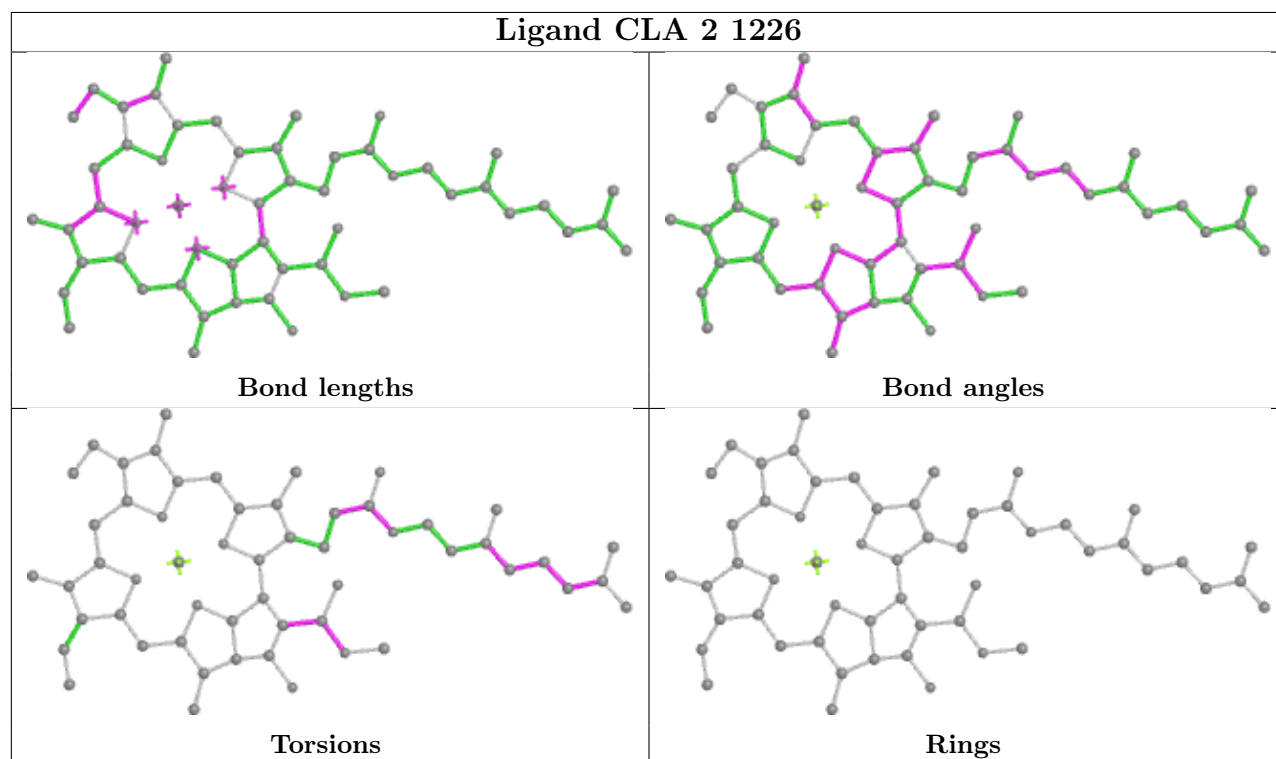
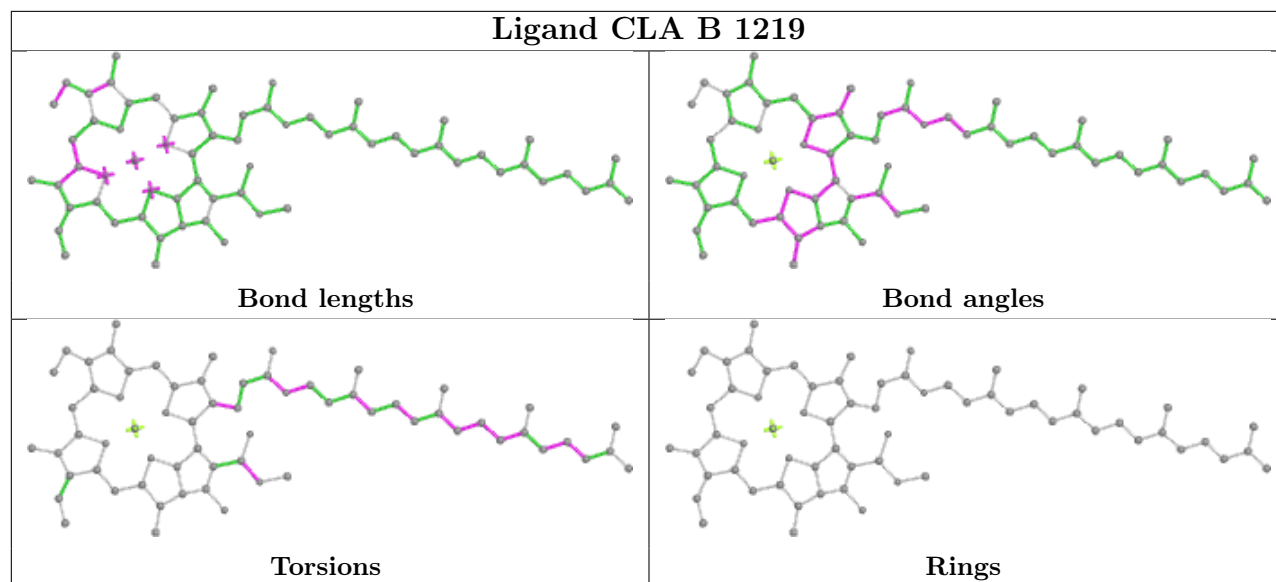


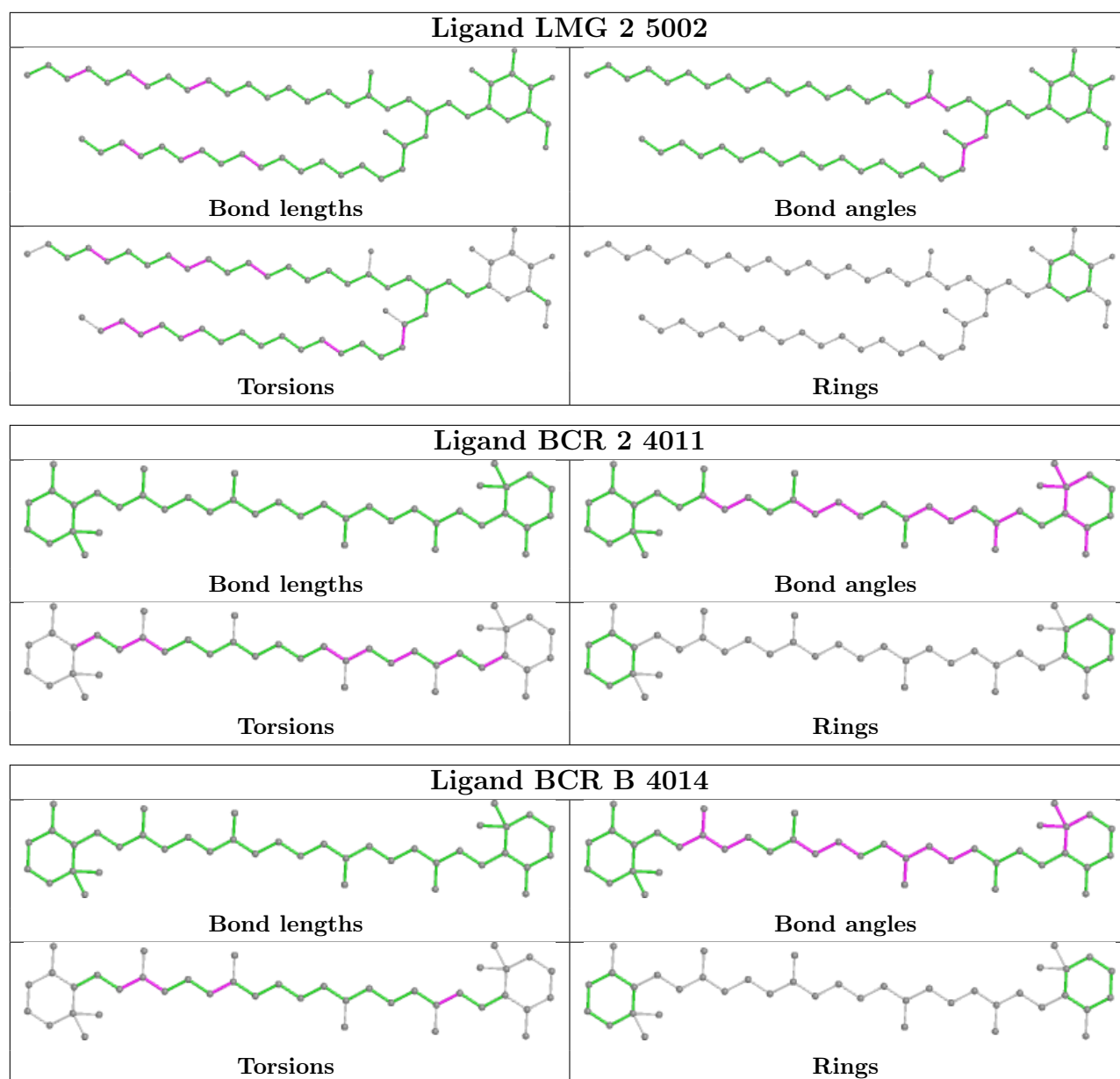












5.7 Other polymers [\(i\)](#)

There are no such residues in this entry.

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

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

| Mol | Chain | Analysed | <RSRZ> | #RSRZ>2 | OWAB(Å ²) | Q<0.9 |
|-----|-------|----------------|--------|---------------|-----------------------|----------|
| 1 | A | 751/751 (100%) | -0.19 | 20 (2%) 54 58 | 29, 47, 72, 134 | 0 |
| 1 | a | 751/751 (100%) | 0.97 | 140 (18%) 1 1 | 48, 95, 149, 209 | 0 |
| 2 | 2 | 731/731 (100%) | 0.85 | 131 (17%) 1 1 | 43, 101, 146, 169 | 0 |
| 2 | B | 731/731 (100%) | 0.06 | 42 (5%) 23 25 | 29, 56, 90, 152 | 0 |
| 3 | 3 | 80/80 (100%) | 1.51 | 23 (28%) 0 0 | 54, 84, 110, 119 | 0 |
| 3 | C | 80/80 (100%) | -0.47 | 1 (1%) 77 79 | 33, 45, 59, 81 | 0 |
| 4 | D | 141/141 (100%) | -0.24 | 7 (4%) 28 30 | 30, 44, 70, 120 | 0 |
| 4 | d | 141/141 (100%) | 0.81 | 27 (19%) 1 1 | 56, 82, 106, 136 | 0 |
| 5 | 5 | 69/69 (100%) | 1.53 | 16 (23%) 0 0 | 75, 109, 122, 128 | 0 |
| 5 | E | 69/69 (100%) | 0.59 | 10 (14%) 2 2 | 45, 62, 91, 97 | 0 |
| 6 | 6 | 143/143 (100%) | 2.13 | 62 (43%) 0 0 | 114, 141, 158, 189 | 0 |
| 6 | F | 143/143 (100%) | -0.03 | 7 (4%) 29 31 | 56, 78, 94, 130 | 0 |
| 6 | f | 143/143 (100%) | 0.86 | 27 (18%) 1 1 | 60, 97, 112, 132 | 0 |
| 7 | I | 40/40 (100%) | -0.02 | 0 100 100 | 36, 49, 87, 107 | 0 |
| 7 | i | 40/40 (100%) | 0.48 | 3 (7%) 14 14 | 41, 49, 103, 132 | 0 |
| 8 | 7 | 40/40 (100%) | 1.29 | 13 (32%) 0 0 | 109, 128, 152, 165 | 0 |
| 8 | J | 40/40 (100%) | -0.13 | 2 (5%) 28 30 | 54, 69, 95, 101 | 0 |
| 8 | j | 40/40 (100%) | 0.81 | 8 (20%) 1 0 | 87, 98, 117, 132 | 0 |
| 9 | K | 80/80 (100%) | 1.71 | 27 (33%) 0 0 | 53, 72, 127, 146 | 38 (47%) |
| 10 | L | 157/157 (100%) | -0.03 | 6 (3%) 40 43 | 36, 43, 64, 131 | 0 |
| 10 | l | 157/157 (100%) | 0.36 | 14 (8%) 9 9 | 45, 60, 107, 184 | 0 |
| 11 | 9 | 31/31 (100%) | 0.30 | 3 (9%) 7 7 | 78, 86, 98, 111 | 0 |
| 11 | M | 31/31 (100%) | -0.30 | 1 (3%) 47 51 | 49, 58, 66, 96 | 0 |
| 11 | m | 31/31 (100%) | -0.58 | 0 100 100 | 38, 43, 55, 67 | 0 |

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| Mol | Chain | Analysed | <RSRZ> | #RSRZ>2 | OWAB(Å ²) | Q<0.9 |
|-----|-------|------------------|--------|---------------|-----------------------|----------|
| 12 | b | 729/729 (100%) | -0.11 | 12 (1%) 72 74 | 39, 54, 75, 93 | 0 |
| 13 | c | 81/81 (100%) | 0.25 | 4 (4%) 29 31 | 54, 69, 83, 96 | 0 |
| 14 | e | 68/68 (100%) | 2.09 | 33 (48%) 0 0 | 63, 79, 100, 108 | 0 |
| 15 | k | 78/78 (100%) | 4.54 | 61 (78%) 0 0 | 140, 160, 200, 208 | 38 (48%) |
| 16 | 1 | 744/744 (100%) | 1.09 | 150 (20%) 1 0 | 42, 90, 121, 151 | 0 |
| 17 | 4 | 140/140 (100%) | 0.68 | 27 (19%) 1 1 | 51, 76, 105, 120 | 0 |
| 18 | h | 38/38 (100%) | 0.60 | 7 (18%) 1 1 | 54, 68, 95, 96 | 0 |
| 19 | 8 | 79/79 (100%) | 3.23 | 43 (54%) 0 0 | 103, 127, 168, 172 | 39 (49%) |
| 20 | 0 | 154/154 (100%) | -0.26 | 3 (1%) 66 69 | 38, 51, 73, 108 | 0 |
| All | All | 6771/6771 (100%) | 0.57 | 930 (13%) 3 2 | 29, 70, 138, 209 | 115 (1%) |

All (930) RSRZ outliers are listed below:

| Mol | Chain | Res | Type | RSRZ |
|-----|-------|-----|------|------|
| 1 | a | 4 | SER | 15.3 |
| 15 | k | 81 | VAL | 14.4 |
| 15 | k | 15 | THR | 13.7 |
| 1 | a | 6 | PRO | 12.8 |
| 1 | a | 5 | PRO | 12.1 |
| 9 | K | 52 | LEU | 11.8 |
| 15 | k | 14 | THR | 11.7 |
| 16 | 1 | 239 | PRO | 11.5 |
| 19 | 8 | 55 | LEU | 11.4 |
| 1 | a | 256 | PHE | 11.2 |
| 15 | k | 38 | TYR | 11.2 |
| 1 | a | 3 | ILE | 11.1 |
| 1 | a | 268 | TRP | 10.9 |
| 2 | 2 | 1 | MET | 10.8 |
| 16 | 1 | 12 | ALA | 10.7 |
| 19 | 8 | 56 | ALA | 10.6 |
| 15 | k | 50 | LEU | 10.5 |
| 15 | k | 12 | SER | 10.5 |
| 1 | a | 271 | TYR | 10.4 |
| 15 | k | 18 | TRP | 10.2 |
| 15 | k | 39 | PHE | 10.1 |
| 19 | 8 | 58 | LYS | 10.0 |
| 7 | i | 39 | GLU | 10.0 |
| 19 | 8 | 48 | LYS | 9.7 |
| 16 | 1 | 243 | ILE | 9.7 |

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| Mol | Chain | Res | Type | RSRZ |
|------------|--------------|------------|-------------|-------------|
| 1 | a | 257 | ALA | 9.5 |
| 15 | k | 11 | ALA | 9.4 |
| 19 | 8 | 39 | PHE | 9.4 |
| 1 | a | 244 | LEU | 9.3 |
| 19 | 8 | 15 | THR | 9.3 |
| 19 | 8 | 38 | TYR | 9.2 |
| 6 | 6 | 1 | ALA | 9.2 |
| 19 | 8 | 57 | SER | 9.2 |
| 2 | B | 1 | MET | 8.9 |
| 6 | 6 | 90 | ILE | 8.8 |
| 1 | a | 265 | THR | 8.7 |
| 1 | a | 751 | GLY | 8.6 |
| 19 | 8 | 50 | LEU | 8.5 |
| 15 | k | 56 | ALA | 8.4 |
| 15 | k | 53 | PRO | 8.4 |
| 15 | k | 55 | LEU | 8.2 |
| 6 | 6 | 92 | GLU | 8.1 |
| 6 | 6 | 103 | ILE | 8.0 |
| 2 | 2 | 314 | GLY | 8.0 |
| 3 | 3 | 65 | ILE | 8.0 |
| 19 | 8 | 18 | TRP | 8.0 |
| 2 | 2 | 312 | LEU | 7.9 |
| 9 | K | 56 | ALA | 7.8 |
| 19 | 8 | 87 | SER | 7.8 |
| 15 | k | 13 | PRO | 7.5 |
| 16 | 1 | 246 | PRO | 7.5 |
| 15 | k | 16 | ALA | 7.5 |
| 15 | k | 19 | SER | 7.5 |
| 4 | d | 1 | MET | 7.5 |
| 6 | 6 | 102 | VAL | 7.4 |
| 1 | a | 2 | THR | 7.4 |
| 16 | 1 | 286 | GLY | 7.4 |
| 4 | d | 2 | THR | 7.4 |
| 16 | 1 | 11 | LYS | 7.4 |
| 6 | 6 | 106 | PRO | 7.2 |
| 10 | 1 | 2 | ALA | 7.2 |
| 2 | 2 | 225 | PHE | 7.1 |
| 5 | 5 | 31 | SER | 7.1 |
| 7 | i | 40 | GLY | 7.1 |
| 5 | E | 32 | GLY | 7.0 |
| 15 | k | 36 | ILE | 6.9 |
| 19 | 8 | 14 | THR | 6.9 |

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| Mol | Chain | Res | Type | RSRZ |
|------------|--------------|------------|-------------|-------------|
| 16 | 1 | 244 | LEU | 6.9 |
| 1 | a | 7 | GLU | 6.9 |
| 6 | 6 | 99 | GLN | 6.9 |
| 1 | a | 243 | ILE | 6.9 |
| 1 | a | 270 | VAL | 6.9 |
| 15 | k | 60 | THR | 6.9 |
| 3 | 3 | 30 | PRO | 6.8 |
| 6 | 6 | 107 | LEU | 6.8 |
| 6 | 6 | 89 | GLU | 6.8 |
| 1 | a | 519 | LYS | 6.8 |
| 16 | 1 | 279 | GLY | 6.8 |
| 13 | c | 1 | MET | 6.8 |
| 16 | 1 | 183 | LYS | 6.7 |
| 16 | 1 | 30 | LYS | 6.7 |
| 16 | 1 | 623 | PRO | 6.7 |
| 15 | k | 44 | THR | 6.7 |
| 15 | k | 21 | SER | 6.7 |
| 16 | 1 | 249 | MET | 6.7 |
| 6 | 6 | 101 | VAL | 6.6 |
| 15 | k | 46 | LYS | 6.6 |
| 1 | a | 274 | PHE | 6.6 |
| 2 | 2 | 310 | GLY | 6.6 |
| 2 | 2 | 311 | PRO | 6.6 |
| 1 | a | 231 | VAL | 6.6 |
| 16 | 1 | 14 | VAL | 6.6 |
| 2 | 2 | 2 | ALA | 6.5 |
| 19 | 8 | 60 | THR | 6.5 |
| 19 | 8 | 59 | LYS | 6.4 |
| 1 | a | 621 | VAL | 6.4 |
| 6 | 6 | 93 | SER | 6.3 |
| 19 | 8 | 46 | LYS | 6.3 |
| 15 | k | 70 | MET | 6.3 |
| 3 | 3 | 14 | CYS | 6.3 |
| 9 | K | 51 | ALA | 6.3 |
| 16 | 1 | 10 | ALA | 6.2 |
| 14 | e | 26 | ALA | 6.2 |
| 19 | 8 | 35 | VAL | 6.1 |
| 14 | e | 38 | ILE | 6.1 |
| 15 | k | 24 | ILE | 6.1 |
| 6 | F | 2 | ASP | 6.1 |
| 9 | K | 53 | PRO | 6.1 |
| 6 | 6 | 120 | LEU | 6.1 |

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| Mol | Chain | Res | Type | RSRZ |
|------------|--------------|------------|-------------|-------------|
| 16 | 1 | 100 | TYR | 6.1 |
| 2 | 2 | 226 | PHE | 6.0 |
| 5 | 5 | 43 | ARG | 6.0 |
| 14 | e | 9 | VAL | 6.0 |
| 16 | 1 | 15 | SER | 6.0 |
| 12 | b | 730 | PHE | 5.9 |
| 16 | 1 | 18 | ASN | 5.9 |
| 5 | 5 | 19 | TYR | 5.9 |
| 2 | 2 | 295 | TRP | 5.9 |
| 2 | 2 | 731 | GLY | 5.8 |
| 6 | 6 | 11 | SER | 5.8 |
| 16 | 1 | 21 | VAL | 5.8 |
| 1 | a | 266 | LEU | 5.8 |
| 16 | 1 | 31 | PRO | 5.8 |
| 16 | 1 | 16 | VAL | 5.8 |
| 1 | a | 10 | ALA | 5.7 |
| 1 | a | 518 | GLY | 5.7 |
| 1 | a | 1 | MET | 5.7 |
| 19 | 8 | 9 | ALA | 5.7 |
| 2 | 2 | 215 | THR | 5.7 |
| 14 | e | 30 | LYS | 5.7 |
| 1 | a | 12 | ALA | 5.7 |
| 9 | K | 57 | SER | 5.7 |
| 1 | a | 205 | LEU | 5.6 |
| 16 | 1 | 51 | LEU | 5.6 |
| 2 | 2 | 470 | TYR | 5.6 |
| 1 | a | 255 | SER | 5.6 |
| 16 | 1 | 238 | LEU | 5.6 |
| 15 | k | 51 | ALA | 5.5 |
| 1 | a | 108 | THR | 5.5 |
| 16 | 1 | 92 | PHE | 5.4 |
| 14 | e | 31 | SER | 5.4 |
| 9 | K | 59 | LYS | 5.4 |
| 14 | e | 3 | LEU | 5.4 |
| 16 | 1 | 515 | ALA | 5.4 |
| 10 | l | 7 | VAL | 5.4 |
| 16 | 1 | 103 | TRP | 5.4 |
| 15 | k | 83 | GLY | 5.4 |
| 19 | 8 | 19 | SER | 5.3 |
| 6 | 6 | 61 | HIS | 5.3 |
| 17 | 4 | 2 | THR | 5.3 |
| 19 | 8 | 52 | LEU | 5.3 |

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| Mol | Chain | Res | Type | RSRZ |
|------------|--------------|------------|-------------|-------------|
| 2 | 2 | 504 | SER | 5.2 |
| 14 | e | 23 | GLY | 5.2 |
| 15 | k | 79 | GLY | 5.2 |
| 8 | 7 | 1 | MET | 5.2 |
| 9 | K | 50 | LEU | 5.2 |
| 15 | k | 85 | ALA | 5.2 |
| 16 | 1 | 505 | ALA | 5.2 |
| 9 | K | 45 | GLY | 5.2 |
| 10 | L | 1 | MET | 5.2 |
| 5 | 5 | 22 | VAL | 5.2 |
| 19 | 8 | 84 | LEU | 5.2 |
| 16 | 1 | 160 | CYS | 5.1 |
| 16 | 1 | 256 | PHE | 5.1 |
| 6 | 6 | 59 | PHE | 5.1 |
| 16 | 1 | 182 | VAL | 5.1 |
| 1 | A | 2 | THR | 5.1 |
| 8 | 7 | 2 | ASP | 5.0 |
| 11 | 9 | 2 | ALA | 5.0 |
| 2 | 2 | 524 | LEU | 5.0 |
| 6 | 6 | 4 | PHE | 5.0 |
| 3 | 3 | 26 | LEU | 5.0 |
| 12 | b | 731 | GLY | 5.0 |
| 9 | K | 46 | LYS | 5.0 |
| 1 | a | 272 | SER | 5.0 |
| 15 | k | 57 | SER | 5.0 |
| 15 | k | 20 | LEU | 5.0 |
| 10 | l | 1 | MET | 5.0 |
| 9 | K | 44 | THR | 5.0 |
| 16 | 1 | 184 | ALA | 5.0 |
| 1 | a | 520 | VAL | 5.0 |
| 15 | k | 68 | ALA | 4.9 |
| 16 | 1 | 29 | GLY | 4.9 |
| 16 | 1 | 242 | PHE | 4.9 |
| 9 | K | 60 | THR | 4.9 |
| 16 | 1 | 9 | GLU | 4.9 |
| 16 | 1 | 363 | THR | 4.9 |
| 19 | 8 | 44 | THR | 4.9 |
| 4 | d | 68 | LEU | 4.9 |
| 5 | E | 66 | LEU | 4.9 |
| 6 | 6 | 104 | ASN | 4.9 |
| 16 | 1 | 22 | PRO | 4.9 |
| 6 | F | 1 | ALA | 4.9 |

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| Mol | Chain | Res | Type | RSRZ |
|------------|--------------|------------|-------------|-------------|
| 2 | 2 | 216 | PRO | 4.9 |
| 14 | e | 39 | VAL | 4.9 |
| 19 | 8 | 34 | PHE | 4.9 |
| 15 | k | 86 | SER | 4.9 |
| 2 | 2 | 205 | GLN | 4.8 |
| 6 | f | 16 | TYR | 4.8 |
| 8 | j | 40 | PRO | 4.8 |
| 16 | 1 | 34 | PHE | 4.8 |
| 6 | 6 | 2 | ASP | 4.8 |
| 5 | 5 | 62 | ALA | 4.8 |
| 1 | a | 40 | ARG | 4.8 |
| 9 | K | 48 | LYS | 4.8 |
| 2 | B | 480 | ASP | 4.8 |
| 14 | e | 29 | GLU | 4.7 |
| 3 | 3 | 40 | ALA | 4.7 |
| 6 | f | 1 | ALA | 4.7 |
| 1 | a | 378 | TYR | 4.7 |
| 19 | 8 | 45 | GLY | 4.7 |
| 6 | 6 | 105 | VAL | 4.7 |
| 16 | 1 | 248 | LYS | 4.7 |
| 6 | 6 | 87 | LEU | 4.7 |
| 1 | a | 323 | GLU | 4.7 |
| 6 | 6 | 63 | GLY | 4.7 |
| 6 | 6 | 19 | LYS | 4.7 |
| 1 | a | 41 | GLY | 4.7 |
| 14 | e | 37 | VAL | 4.7 |
| 7 | i | 38 | GLY | 4.6 |
| 16 | 1 | 19 | ASN | 4.6 |
| 6 | 6 | 98 | MET | 4.6 |
| 19 | 8 | 47 | GLY | 4.6 |
| 2 | 2 | 520 | ILE | 4.6 |
| 4 | D | 2 | THR | 4.6 |
| 15 | k | 43 | LYS | 4.6 |
| 16 | 1 | 496 | ALA | 4.6 |
| 1 | a | 500 | ASN | 4.6 |
| 16 | 1 | 8 | ARG | 4.6 |
| 1 | a | 47 | TRP | 4.5 |
| 10 | 1 | 4 | SER | 4.5 |
| 2 | 2 | 456 | VAL | 4.5 |
| 2 | 2 | 579 | TRP | 4.5 |
| 14 | e | 60 | ASN | 4.5 |
| 1 | a | 253 | TYR | 4.5 |

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| Mol | Chain | Res | Type | RSRZ |
|------------|--------------|------------|-------------|-------------|
| 17 | 4 | 114 | ALA | 4.5 |
| 16 | 1 | 231 | VAL | 4.5 |
| 17 | 4 | 103 | VAL | 4.5 |
| 16 | 1 | 288 | LEU | 4.5 |
| 1 | a | 383 | TYR | 4.5 |
| 2 | 2 | 222 | LEU | 4.5 |
| 15 | k | 25 | ILE | 4.5 |
| 16 | 1 | 709 | VAL | 4.5 |
| 1 | a | 249 | MET | 4.5 |
| 1 | a | 267 | ASN | 4.4 |
| 1 | a | 207 | LEU | 4.4 |
| 19 | 8 | 20 | LEU | 4.4 |
| 2 | 2 | 263 | PRO | 4.4 |
| 6 | f | 59 | PHE | 4.4 |
| 19 | 8 | 36 | ILE | 4.4 |
| 1 | a | 748 | LEU | 4.4 |
| 1 | a | 613 | MET | 4.4 |
| 2 | 2 | 166 | ALA | 4.4 |
| 3 | 3 | 57 | ALA | 4.4 |
| 15 | k | 10 | GLN | 4.4 |
| 2 | 2 | 286 | ILE | 4.4 |
| 1 | a | 38 | LEU | 4.4 |
| 8 | 7 | 38 | PHE | 4.4 |
| 1 | a | 269 | GLY | 4.3 |
| 6 | 6 | 38 | GLU | 4.3 |
| 1 | A | 12 | ALA | 4.3 |
| 1 | a | 8 | ARG | 4.3 |
| 8 | 7 | 9 | SER | 4.3 |
| 1 | a | 247 | SER | 4.3 |
| 15 | k | 28 | LEU | 4.3 |
| 5 | 5 | 32 | GLY | 4.3 |
| 2 | 2 | 471 | GLY | 4.3 |
| 16 | 1 | 266 | LEU | 4.3 |
| 16 | 1 | 180 | TYR | 4.3 |
| 15 | k | 35 | VAL | 4.3 |
| 15 | k | 32 | PHE | 4.3 |
| 15 | k | 72 | PHE | 4.3 |
| 2 | B | 342 | ILE | 4.3 |
| 14 | e | 40 | ARG | 4.3 |
| 15 | k | 29 | CYS | 4.3 |
| 3 | 3 | 13 | GLY | 4.2 |
| 10 | l | 43 | GLY | 4.2 |

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| Mol | Chain | Res | Type | RSRZ |
|------------|--------------|------------|-------------|-------------|
| 6 | 6 | 134 | LYS | 4.2 |
| 4 | d | 56 | LEU | 4.2 |
| 19 | 8 | 51 | ALA | 4.2 |
| 3 | 3 | 12 | ILE | 4.2 |
| 1 | A | 359 | LEU | 4.2 |
| 2 | 2 | 441 | VAL | 4.2 |
| 9 | K | 55 | LEU | 4.2 |
| 3 | 3 | 29 | VAL | 4.2 |
| 10 | l | 3 | GLU | 4.2 |
| 1 | a | 273 | ASP | 4.2 |
| 2 | 2 | 218 | HIS | 4.2 |
| 2 | B | 244 | PHE | 4.2 |
| 8 | j | 32 | PHE | 4.2 |
| 3 | 3 | 63 | LEU | 4.2 |
| 2 | 2 | 217 | PRO | 4.2 |
| 14 | e | 33 | ILE | 4.1 |
| 16 | 1 | 396 | ILE | 4.1 |
| 5 | 5 | 20 | GLY | 4.1 |
| 1 | a | 9 | GLU | 4.1 |
| 17 | 4 | 141 | VAL | 4.1 |
| 1 | a | 275 | LEU | 4.1 |
| 16 | 1 | 270 | VAL | 4.1 |
| 3 | 3 | 41 | SER | 4.1 |
| 9 | K | 42 | GLN | 4.1 |
| 1 | a | 36 | ARG | 4.1 |
| 16 | 1 | 38 | LEU | 4.1 |
| 15 | k | 40 | ALA | 4.1 |
| 14 | e | 32 | GLY | 4.1 |
| 8 | 7 | 33 | TYR | 4.0 |
| 2 | 2 | 527 | THR | 4.0 |
| 5 | 5 | 23 | GLY | 4.0 |
| 10 | L | 2 | ALA | 4.0 |
| 1 | a | 92 | PHE | 4.0 |
| 6 | 6 | 17 | LEU | 4.0 |
| 1 | a | 156 | TYR | 4.0 |
| 16 | 1 | 240 | HIS | 4.0 |
| 16 | 1 | 504 | THR | 4.0 |
| 10 | l | 5 | ASN | 4.0 |
| 4 | d | 104 | PHE | 4.0 |
| 9 | K | 8 | LEU | 4.0 |
| 16 | 1 | 705 | ASN | 4.0 |
| 19 | 8 | 64 | PRO | 4.0 |

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| Mol | Chain | Res | Type | RSRZ |
|------------|--------------|------------|-------------|-------------|
| 3 | 3 | 62 | PHE | 4.0 |
| 2 | B | 213 | LEU | 4.0 |
| 2 | 2 | 460 | TRP | 4.0 |
| 1 | a | 206 | GLY | 4.0 |
| 14 | e | 24 | THR | 4.0 |
| 6 | 6 | 131 | LEU | 3.9 |
| 5 | 5 | 10 | ARG | 3.9 |
| 6 | f | 94 | LYS | 3.9 |
| 16 | 1 | 156 | TYR | 3.9 |
| 2 | 2 | 232 | VAL | 3.9 |
| 19 | 8 | 53 | PRO | 3.9 |
| 2 | 2 | 427 | LEU | 3.9 |
| 2 | B | 243 | ILE | 3.9 |
| 2 | 2 | 501 | GLY | 3.9 |
| 15 | k | 45 | GLY | 3.9 |
| 16 | 1 | 234 | LYS | 3.9 |
| 4 | d | 40 | PHE | 3.9 |
| 1 | a | 254 | PRO | 3.9 |
| 2 | 2 | 396 | TYR | 3.9 |
| 9 | K | 34 | PHE | 3.9 |
| 8 | J | 32 | PHE | 3.9 |
| 1 | a | 37 | THR | 3.9 |
| 16 | 1 | 680 | ALA | 3.9 |
| 14 | e | 8 | LYS | 3.9 |
| 11 | 9 | 3 | LEU | 3.9 |
| 13 | c | 62 | PHE | 3.9 |
| 17 | 4 | 107 | LYS | 3.9 |
| 1 | a | 623 | PRO | 3.8 |
| 2 | 2 | 398 | PRO | 3.8 |
| 16 | 1 | 163 | ILE | 3.8 |
| 15 | k | 34 | PHE | 3.8 |
| 4 | D | 1 | MET | 3.8 |
| 15 | k | 54 | GLN | 3.8 |
| 1 | a | 624 | ASP | 3.8 |
| 4 | d | 83 | TYR | 3.8 |
| 1 | a | 105 | ALA | 3.8 |
| 1 | a | 107 | PRO | 3.8 |
| 1 | a | 750 | ILE | 3.8 |
| 6 | 6 | 3 | ASP | 3.8 |
| 4 | d | 86 | TYR | 3.8 |
| 9 | K | 54 | GLN | 3.8 |
| 2 | 2 | 214 | SER | 3.8 |

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| Mol | Chain | Res | Type | RSRZ |
|------------|--------------|------------|-------------|-------------|
| 16 | 1 | 255 | SER | 3.8 |
| 16 | 1 | 257 | ALA | 3.8 |
| 15 | k | 37 | GLY | 3.8 |
| 6 | 6 | 110 | LYS | 3.8 |
| 5 | E | 3 | LEU | 3.8 |
| 1 | A | 6 | PRO | 3.8 |
| 8 | j | 1 | MET | 3.8 |
| 2 | 2 | 423 | VAL | 3.8 |
| 2 | B | 343 | THR | 3.8 |
| 1 | a | 263 | PHE | 3.7 |
| 9 | K | 23 | GLY | 3.7 |
| 19 | 8 | 49 | ASP | 3.7 |
| 2 | 2 | 472 | PHE | 3.7 |
| 16 | 1 | 360 | GLY | 3.7 |
| 17 | 4 | 110 | GLU | 3.7 |
| 15 | k | 58 | LYS | 3.7 |
| 2 | 2 | 528 | ALA | 3.7 |
| 1 | a | 204 | LEU | 3.7 |
| 2 | 2 | 316 | GLY | 3.7 |
| 6 | 6 | 21 | LYS | 3.7 |
| 3 | 3 | 39 | ILE | 3.7 |
| 9 | K | 24 | ILE | 3.7 |
| 3 | 3 | 5 | VAL | 3.7 |
| 2 | 2 | 424 | SER | 3.7 |
| 2 | 2 | 525 | HIS | 3.7 |
| 1 | a | 208 | GLY | 3.7 |
| 15 | k | 82 | LEU | 3.7 |
| 17 | 4 | 113 | GLU | 3.7 |
| 1 | a | 34 | PHE | 3.6 |
| 14 | e | 18 | TRP | 3.6 |
| 14 | e | 27 | SER | 3.6 |
| 1 | a | 261 | THR | 3.6 |
| 19 | 8 | 24 | ILE | 3.6 |
| 16 | 1 | 665 | LEU | 3.6 |
| 1 | a | 39 | ALA | 3.6 |
| 6 | 6 | 62 | ALA | 3.6 |
| 16 | 1 | 710 | ALA | 3.6 |
| 1 | a | 233 | PRO | 3.6 |
| 5 | 5 | 7 | ASP | 3.6 |
| 1 | a | 301 | ALA | 3.6 |
| 16 | 1 | 500 | ASN | 3.6 |
| 18 | h | 38 | GLY | 3.6 |

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| Mol | Chain | Res | Type | RSRZ |
|------------|--------------|------------|-------------|-------------|
| 1 | a | 617 | VAL | 3.6 |
| 10 | L | 3 | GLU | 3.6 |
| 16 | 1 | 522 | MET | 3.6 |
| 8 | 7 | 3 | GLY | 3.6 |
| 16 | 1 | 250 | ALA | 3.6 |
| 6 | 6 | 113 | LEU | 3.5 |
| 1 | a | 250 | ALA | 3.5 |
| 1 | a | 367 | ALA | 3.5 |
| 16 | 1 | 516 | VAL | 3.5 |
| 17 | 4 | 77 | LYS | 3.5 |
| 6 | 6 | 91 | ARG | 3.5 |
| 15 | k | 78 | ALA | 3.5 |
| 16 | 1 | 285 | THR | 3.5 |
| 16 | 1 | 378 | TYR | 3.5 |
| 9 | K | 19 | SER | 3.5 |
| 8 | 7 | 32 | PHE | 3.5 |
| 1 | a | 259 | GLY | 3.5 |
| 1 | a | 303 | LEU | 3.5 |
| 4 | d | 77 | LYS | 3.5 |
| 6 | 6 | 50 | TYR | 3.5 |
| 1 | A | 3 | ILE | 3.5 |
| 16 | 1 | 514 | ILE | 3.5 |
| 6 | 6 | 18 | ALA | 3.4 |
| 2 | 2 | 341 | VAL | 3.4 |
| 1 | a | 264 | PHE | 3.4 |
| 15 | k | 61 | PHE | 3.4 |
| 16 | 1 | 201 | LEU | 3.4 |
| 15 | k | 27 | CYS | 3.4 |
| 16 | 1 | 251 | GLU | 3.4 |
| 2 | 2 | 399 | VAL | 3.4 |
| 1 | a | 258 | GLN | 3.4 |
| 10 | l | 6 | GLN | 3.4 |
| 16 | 1 | 177 | TRP | 3.4 |
| 6 | F | 113 | LEU | 3.4 |
| 2 | B | 2 | ALA | 3.4 |
| 6 | 6 | 94 | LYS | 3.4 |
| 19 | 8 | 54 | GLN | 3.4 |
| 2 | 2 | 82 | LEU | 3.4 |
| 19 | 8 | 23 | GLY | 3.4 |
| 3 | 3 | 8 | TYR | 3.4 |
| 2 | 2 | 523 | GLY | 3.3 |
| 2 | 2 | 530 | ILE | 3.3 |

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| Mol | Chain | Res | Type | RSRZ |
|------------|--------------|------------|-------------|-------------|
| 3 | 3 | 27 | GLU | 3.3 |
| 6 | 6 | 51 | PRO | 3.3 |
| 6 | 6 | 86 | TYR | 3.3 |
| 15 | k | 9 | ALA | 3.3 |
| 8 | j | 2 | ASP | 3.3 |
| 10 | l | 91 | VAL | 3.3 |
| 19 | 8 | 81 | VAL | 3.3 |
| 4 | d | 92 | GLY | 3.3 |
| 2 | 2 | 522 | LEU | 3.3 |
| 9 | K | 61 | PHE | 3.3 |
| 16 | 1 | 204 | LEU | 3.3 |
| 1 | a | 618 | TRP | 3.3 |
| 6 | f | 15 | ALA | 3.3 |
| 18 | h | 2 | ASP | 3.3 |
| 16 | 1 | 25 | PHE | 3.3 |
| 16 | 1 | 152 | PHE | 3.3 |
| 6 | F | 94 | LYS | 3.3 |
| 2 | 2 | 618 | ARG | 3.3 |
| 10 | L | 110 | SER | 3.3 |
| 2 | 2 | 313 | THR | 3.3 |
| 16 | 1 | 161 | THR | 3.3 |
| 19 | 8 | 32 | PHE | 3.3 |
| 16 | 1 | 96 | LYS | 3.3 |
| 6 | 6 | 117 | LEU | 3.3 |
| 6 | 6 | 130 | LYS | 3.3 |
| 6 | 6 | 43 | ALA | 3.3 |
| 6 | 6 | 10 | CYS | 3.3 |
| 14 | e | 5 | ARG | 3.3 |
| 2 | 2 | 422 | TRP | 3.3 |
| 6 | 6 | 132 | VAL | 3.3 |
| 2 | 2 | 519 | ALA | 3.2 |
| 4 | d | 30 | ILE | 3.2 |
| 1 | a | 209 | SER | 3.2 |
| 2 | B | 295 | TRP | 3.2 |
| 6 | f | 37 | ALA | 3.2 |
| 16 | 1 | 17 | ASP | 3.2 |
| 15 | k | 80 | MET | 3.2 |
| 6 | f | 95 | ASN | 3.2 |
| 14 | e | 59 | ASN | 3.2 |
| 1 | a | 619 | GLY | 3.2 |
| 8 | j | 4 | LEU | 3.2 |
| 1 | a | 202 | ALA | 3.2 |

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| Mol | Chain | Res | Type | RSRZ |
|------------|--------------|------------|-------------|-------------|
| 3 | 3 | 7 | ILE | 3.2 |
| 16 | 1 | 393 | HIS | 3.2 |
| 16 | 1 | 364 | ILE | 3.2 |
| 2 | B | 312 | LEU | 3.2 |
| 16 | 1 | 359 | LEU | 3.2 |
| 17 | 4 | 83 | TYR | 3.1 |
| 1 | a | 203 | GLY | 3.1 |
| 1 | a | 286 | GLY | 3.1 |
| 4 | d | 4 | LEU | 3.1 |
| 16 | 1 | 281 | LEU | 3.1 |
| 16 | 1 | 503 | ALA | 3.1 |
| 17 | 4 | 96 | TYR | 3.1 |
| 1 | a | 242 | PHE | 3.1 |
| 16 | 1 | 47 | TRP | 3.1 |
| 2 | B | 239 | THR | 3.1 |
| 5 | 5 | 2 | ALA | 3.1 |
| 2 | 2 | 243 | ILE | 3.1 |
| 16 | 1 | 289 | TRP | 3.1 |
| 4 | d | 46 | GLY | 3.1 |
| 6 | f | 2 | ASP | 3.1 |
| 2 | 2 | 227 | THR | 3.1 |
| 2 | 2 | 337 | ALA | 3.1 |
| 6 | 6 | 22 | ASN | 3.1 |
| 6 | 6 | 41 | ALA | 3.1 |
| 16 | 1 | 501 | ALA | 3.1 |
| 2 | 2 | 297 | ILE | 3.1 |
| 14 | e | 11 | ILE | 3.1 |
| 16 | 1 | 390 | PHE | 3.1 |
| 17 | 4 | 85 | ILE | 3.1 |
| 2 | 2 | 343 | THR | 3.1 |
| 2 | 2 | 526 | THR | 3.1 |
| 6 | f | 129 | GLY | 3.1 |
| 5 | E | 70 | GLN | 3.1 |
| 3 | 3 | 38 | GLN | 3.0 |
| 16 | 1 | 159 | TYR | 3.0 |
| 6 | F | 134 | LYS | 3.0 |
| 4 | d | 47 | ALA | 3.0 |
| 3 | 3 | 32 | ASP | 3.0 |
| 4 | D | 136 | LYS | 3.0 |
| 4 | d | 29 | ALA | 3.0 |
| 15 | k | 69 | THR | 3.0 |
| 3 | 3 | 43 | PRO | 3.0 |

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| Mol | Chain | Res | Type | RSRZ |
|------------|--------------|------------|-------------|-------------|
| 17 | 4 | 98 | HIS | 3.0 |
| 8 | 7 | 6 | SER | 3.0 |
| 5 | E | 69 | VAL | 3.0 |
| 1 | a | 304 | PHE | 3.0 |
| 17 | 4 | 102 | GLY | 3.0 |
| 16 | 1 | 367 | ALA | 3.0 |
| 1 | a | 31 | PRO | 3.0 |
| 4 | d | 84 | LYS | 3.0 |
| 1 | a | 300 | ILE | 3.0 |
| 6 | 6 | 16 | TYR | 3.0 |
| 12 | b | 635 | TYR | 3.0 |
| 16 | 1 | 247 | SER | 3.0 |
| 16 | 1 | 507 | TYR | 3.0 |
| 2 | 2 | 476 | LEU | 3.0 |
| 11 | M | 1 | MET | 3.0 |
| 2 | B | 345 | LEU | 3.0 |
| 5 | E | 68 | LEU | 3.0 |
| 16 | 1 | 391 | THR | 3.0 |
| 16 | 1 | 655 | ALA | 3.0 |
| 1 | a | 637 | GLN | 3.0 |
| 2 | 2 | 494 | TRP | 3.0 |
| 1 | A | 300 | ILE | 2.9 |
| 1 | a | 11 | LYS | 2.9 |
| 15 | k | 48 | LYS | 2.9 |
| 6 | f | 41 | ALA | 2.9 |
| 16 | 1 | 717 | ALA | 2.9 |
| 17 | 4 | 117 | THR | 2.9 |
| 19 | 8 | 31 | VAL | 2.9 |
| 16 | 1 | 174 | PHE | 2.9 |
| 19 | 8 | 61 | PHE | 2.9 |
| 16 | 1 | 245 | GLU | 2.9 |
| 2 | B | 495 | LEU | 2.9 |
| 16 | 1 | 712 | ALA | 2.9 |
| 17 | 4 | 97 | LEU | 2.9 |
| 1 | a | 338 | LYS | 2.9 |
| 2 | 2 | 230 | TRP | 2.9 |
| 1 | a | 163 | ILE | 2.9 |
| 2 | B | 339 | LEU | 2.9 |
| 14 | e | 34 | LEU | 2.9 |
| 19 | 8 | 22 | VAL | 2.9 |
| 1 | a | 381 | ILE | 2.9 |
| 2 | 2 | 573 | PHE | 2.9 |

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| Mol | Chain | Res | Type | RSRZ |
|------------|--------------|------------|-------------|-------------|
| 6 | f | 19 | LYS | 2.9 |
| 2 | 2 | 428 | GLY | 2.9 |
| 2 | 2 | 582 | ASN | 2.9 |
| 6 | f | 39 | ARG | 2.9 |
| 6 | f | 53 | LEU | 2.9 |
| 1 | a | 145 | TYR | 2.9 |
| 1 | a | 678 | VAL | 2.9 |
| 2 | B | 338 | SER | 2.9 |
| 14 | e | 20 | GLY | 2.9 |
| 6 | 6 | 44 | LEU | 2.9 |
| 13 | c | 36 | ALA | 2.9 |
| 8 | 7 | 40 | PRO | 2.8 |
| 17 | 4 | 101 | ASP | 2.8 |
| 19 | 8 | 12 | SER | 2.8 |
| 2 | B | 730 | PHE | 2.8 |
| 6 | f | 30 | PRO | 2.8 |
| 2 | 2 | 710 | PHE | 2.8 |
| 4 | D | 110 | GLU | 2.8 |
| 6 | 6 | 111 | LYS | 2.8 |
| 8 | J | 33 | TYR | 2.8 |
| 1 | A | 548 | ILE | 2.8 |
| 16 | 1 | 743 | PHE | 2.8 |
| 1 | a | 235 | ASP | 2.8 |
| 6 | 6 | 127 | THR | 2.8 |
| 14 | e | 68 | LEU | 2.8 |
| 16 | 1 | 356 | LEU | 2.8 |
| 16 | 1 | 397 | GLY | 2.8 |
| 16 | 1 | 398 | GLY | 2.8 |
| 2 | 2 | 330 | PHE | 2.8 |
| 6 | 6 | 49 | GLY | 2.8 |
| 16 | 1 | 298 | LEU | 2.8 |
| 16 | 1 | 400 | LEU | 2.8 |
| 17 | 4 | 108 | VAL | 2.8 |
| 2 | 2 | 586 | TRP | 2.8 |
| 2 | 2 | 654 | TRP | 2.8 |
| 4 | d | 95 | GLN | 2.8 |
| 1 | a | 305 | ILE | 2.8 |
| 6 | f | 42 | SER | 2.8 |
| 2 | 2 | 282 | VAL | 2.7 |
| 4 | d | 39 | VAL | 2.7 |
| 16 | 1 | 94 | GLY | 2.7 |
| 2 | B | 488 | ALA | 2.7 |

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| Mol | Chain | Res | Type | RSRZ |
|------------|--------------|------------|-------------|-------------|
| 2 | 2 | 426 | PHE | 2.7 |
| 1 | a | 201 | LEU | 2.7 |
| 2 | 2 | 361 | GLN | 2.7 |
| 6 | f | 34 | LYS | 2.7 |
| 16 | 1 | 151 | GLY | 2.7 |
| 2 | B | 377 | ALA | 2.7 |
| 16 | 1 | 395 | TRP | 2.7 |
| 1 | a | 366 | VAL | 2.7 |
| 14 | e | 22 | VAL | 2.7 |
| 1 | a | 396 | ILE | 2.7 |
| 2 | 2 | 567 | ILE | 2.7 |
| 6 | f | 60 | THR | 2.7 |
| 2 | 2 | 268 | LEU | 2.7 |
| 2 | 2 | 505 | LEU | 2.7 |
| 6 | f | 10 | CYS | 2.7 |
| 17 | 4 | 33 | THR | 2.7 |
| 4 | D | 133 | PHE | 2.7 |
| 14 | e | 41 | PHE | 2.7 |
| 2 | B | 204 | GLY | 2.7 |
| 2 | B | 297 | ILE | 2.7 |
| 3 | C | 62 | PHE | 2.7 |
| 2 | 2 | 420 | LEU | 2.7 |
| 6 | 6 | 67 | ILE | 2.7 |
| 8 | 7 | 7 | PHE | 2.7 |
| 5 | E | 12 | LYS | 2.7 |
| 1 | a | 96 | LYS | 2.6 |
| 2 | 2 | 431 | THR | 2.6 |
| 8 | 7 | 10 | THR | 2.6 |
| 2 | B | 380 | LEU | 2.6 |
| 15 | k | 77 | GLY | 2.6 |
| 2 | 2 | 605 | GLN | 2.6 |
| 4 | d | 70 | THR | 2.6 |
| 1 | a | 733 | LEU | 2.6 |
| 2 | 2 | 320 | LEU | 2.6 |
| 16 | 1 | 381 | ILE | 2.6 |
| 17 | 4 | 30 | ILE | 2.6 |
| 2 | B | 215 | THR | 2.6 |
| 5 | 5 | 4 | ASN | 2.6 |
| 16 | 1 | 517 | ALA | 2.6 |
| 9 | K | 63 | LEU | 2.6 |
| 16 | 1 | 377 | PRO | 2.6 |
| 6 | f | 40 | TYR | 2.6 |

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| Mol | Chain | Res | Type | RSRZ |
|------------|--------------|------------|-------------|-------------|
| 2 | 2 | 247 | SER | 2.6 |
| 16 | 1 | 521 | ALA | 2.6 |
| 19 | 8 | 16 | ALA | 2.6 |
| 16 | 1 | 187 | LEU | 2.6 |
| 16 | 1 | 683 | LEU | 2.6 |
| 1 | a | 283 | PRO | 2.6 |
| 2 | B | 472 | PHE | 2.6 |
| 2 | B | 344 | SER | 2.6 |
| 2 | 2 | 518 | HIS | 2.6 |
| 2 | B | 341 | VAL | 2.6 |
| 2 | 2 | 307 | ALA | 2.6 |
| 1 | a | 411 | PHE | 2.6 |
| 13 | c | 35 | LYS | 2.6 |
| 15 | k | 42 | GLN | 2.6 |
| 2 | 2 | 43 | TYR | 2.6 |
| 1 | a | 630 | VAL | 2.6 |
| 1 | a | 26 | GLU | 2.6 |
| 16 | 1 | 304 | PHE | 2.6 |
| 1 | a | 616 | ASP | 2.6 |
| 17 | 4 | 116 | GLY | 2.6 |
| 6 | f | 27 | THR | 2.5 |
| 14 | e | 2 | ALA | 2.5 |
| 16 | 1 | 27 | LYS | 2.5 |
| 5 | 5 | 11 | ILE | 2.5 |
| 16 | 1 | 61 | GLN | 2.5 |
| 10 | L | 106 | GLY | 2.5 |
| 16 | 1 | 91 | TYR | 2.5 |
| 1 | A | 327 | ALA | 2.5 |
| 1 | A | 358 | LEU | 2.5 |
| 2 | B | 264 | GLN | 2.5 |
| 15 | k | 64 | PRO | 2.5 |
| 2 | 2 | 336 | LEU | 2.5 |
| 2 | 2 | 223 | MET | 2.5 |
| 2 | 2 | 467 | LYS | 2.5 |
| 16 | 1 | 13 | LYS | 2.5 |
| 1 | a | 229 | ALA | 2.5 |
| 2 | B | 346 | VAL | 2.5 |
| 16 | 1 | 430 | LEU | 2.5 |
| 8 | j | 3 | GLY | 2.5 |
| 2 | B | 214 | SER | 2.5 |
| 18 | h | 1 | MET | 2.5 |
| 6 | f | 55 | VAL | 2.5 |

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| Mol | Chain | Res | Type | RSRZ |
|------------|--------------|------------|-------------|-------------|
| 8 | 7 | 4 | LEU | 2.5 |
| 1 | A | 360 | GLY | 2.5 |
| 6 | F | 128 | SER | 2.5 |
| 20 | 0 | 4 | SER | 2.5 |
| 6 | 6 | 39 | ARG | 2.5 |
| 2 | 2 | 164 | SER | 2.5 |
| 2 | 2 | 344 | SER | 2.5 |
| 10 | 1 | 9 | GLN | 2.5 |
| 16 | 1 | 110 | ILE | 2.5 |
| 3 | 3 | 58 | CYS | 2.5 |
| 2 | 2 | 502 | THR | 2.5 |
| 2 | 2 | 204 | GLY | 2.5 |
| 3 | 3 | 31 | TRP | 2.5 |
| 5 | 5 | 68 | LEU | 2.5 |
| 16 | 1 | 226 | LEU | 2.5 |
| 6 | 6 | 137 | GLU | 2.5 |
| 18 | h | 4 | SER | 2.5 |
| 17 | 4 | 133 | PHE | 2.5 |
| 16 | 1 | 64 | ASP | 2.5 |
| 2 | B | 499 | ASN | 2.5 |
| 2 | 2 | 601 | GLY | 2.5 |
| 15 | k | 84 | LEU | 2.4 |
| 1 | a | 159 | TYR | 2.4 |
| 2 | 2 | 68 | VAL | 2.4 |
| 12 | b | 662 | ILE | 2.4 |
| 2 | 2 | 712 | VAL | 2.4 |
| 1 | A | 9 | GLU | 2.4 |
| 6 | f | 98 | MET | 2.4 |
| 15 | k | 26 | MET | 2.4 |
| 3 | 3 | 36 | ALA | 2.4 |
| 14 | e | 7 | ASP | 2.4 |
| 2 | 2 | 92 | TRP | 2.4 |
| 2 | B | 216 | PRO | 2.4 |
| 2 | 2 | 163 | PRO | 2.4 |
| 6 | 6 | 9 | PRO | 2.4 |
| 20 | 0 | 74 | SER | 2.4 |
| 14 | e | 28 | VAL | 2.4 |
| 1 | a | 734 | GLY | 2.4 |
| 16 | 1 | 20 | PRO | 2.4 |
| 1 | a | 200 | HIS | 2.4 |
| 6 | 6 | 52 | HIS | 2.4 |
| 6 | f | 130 | LYS | 2.4 |

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| Mol | Chain | Res | Type | RSRZ |
|------------|--------------|------------|-------------|-------------|
| 2 | 2 | 203 | ARG | 2.4 |
| 16 | 1 | 713 | ILE | 2.4 |
| 1 | a | 174 | PHE | 2.4 |
| 1 | a | 611 | TRP | 2.4 |
| 20 | 0 | 113 | THR | 2.4 |
| 2 | 2 | 584 | LEU | 2.4 |
| 16 | 1 | 502 | LEU | 2.4 |
| 1 | a | 27 | LYS | 2.4 |
| 2 | 2 | 233 | TYR | 2.4 |
| 6 | 6 | 58 | ARG | 2.4 |
| 8 | j | 31 | ARG | 2.4 |
| 2 | 2 | 711 | THR | 2.4 |
| 6 | F | 127 | THR | 2.4 |
| 6 | f | 38 | GLU | 2.4 |
| 17 | 4 | 109 | ASN | 2.3 |
| 4 | d | 94 | VAL | 2.3 |
| 16 | 1 | 115 | GLN | 2.3 |
| 9 | K | 58 | LYS | 2.3 |
| 2 | B | 524 | LEU | 2.3 |
| 2 | 2 | 419 | HIS | 2.3 |
| 19 | 8 | 42 | GLN | 2.3 |
| 4 | d | 67 | ALA | 2.3 |
| 6 | f | 18 | ALA | 2.3 |
| 6 | 6 | 20 | SER | 2.3 |
| 2 | B | 259 | GLY | 2.3 |
| 1 | a | 362 | LEU | 2.3 |
| 2 | 2 | 53 | HIS | 2.3 |
| 16 | 1 | 58 | PHE | 2.3 |
| 2 | B | 240 | ALA | 2.3 |
| 2 | 2 | 352 | SER | 2.3 |
| 4 | d | 96 | TYR | 2.3 |
| 2 | 2 | 445 | GLY | 2.3 |
| 11 | 9 | 5 | ASP | 2.3 |
| 1 | a | 43 | LYS | 2.3 |
| 1 | a | 284 | VAL | 2.3 |
| 9 | K | 18 | TRP | 2.3 |
| 14 | e | 61 | PHE | 2.3 |
| 2 | 2 | 418 | SER | 2.3 |
| 6 | 6 | 108 | ALA | 2.3 |
| 16 | 1 | 282 | ASN | 2.3 |
| 1 | a | 276 | THR | 2.3 |
| 2 | B | 487 | GLY | 2.3 |

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| Mol | Chain | Res | Type | RSRZ |
|------------|--------------|------------|-------------|-------------|
| 16 | 1 | 271 | TYR | 2.3 |
| 2 | B | 182 | LEU | 2.3 |
| 2 | 2 | 397 | ASP | 2.3 |
| 2 | 2 | 531 | LEU | 2.3 |
| 15 | k | 52 | LEU | 2.3 |
| 16 | 1 | 65 | LEU | 2.3 |
| 12 | b | 341 | VAL | 2.3 |
| 1 | a | 197 | MET | 2.3 |
| 2 | 2 | 577 | MET | 2.3 |
| 1 | a | 521 | ALA | 2.3 |
| 5 | E | 2 | ALA | 2.3 |
| 1 | a | 668 | TYR | 2.3 |
| 1 | a | 199 | HIS | 2.3 |
| 2 | 2 | 491 | LEU | 2.3 |
| 16 | 1 | 208 | GLY | 2.3 |
| 2 | 2 | 358 | PHE | 2.3 |
| 1 | A | 502 | LEU | 2.3 |
| 1 | a | 726 | VAL | 2.2 |
| 2 | 2 | 706 | GLY | 2.2 |
| 5 | E | 67 | GLU | 2.2 |
| 17 | 4 | 3 | GLU | 2.2 |
| 1 | a | 593 | LEU | 2.2 |
| 1 | a | 723 | GLY | 2.2 |
| 16 | 1 | 132 | GLY | 2.2 |
| 6 | f | 127 | THR | 2.2 |
| 12 | b | 710 | PHE | 2.2 |
| 16 | 1 | 519 | LYS | 2.2 |
| 16 | 1 | 687 | PHE | 2.2 |
| 1 | a | 492 | LEU | 2.2 |
| 2 | 2 | 507 | LEU | 2.2 |
| 6 | 6 | 13 | ASN | 2.2 |
| 16 | 1 | 253 | TYR | 2.2 |
| 2 | 2 | 566 | ASP | 2.2 |
| 2 | 2 | 594 | LYS | 2.2 |
| 19 | 8 | 27 | CYS | 2.2 |
| 2 | 2 | 156 | HIS | 2.2 |
| 10 | l | 16 | PHE | 2.2 |
| 12 | b | 524 | LEU | 2.2 |
| 6 | 6 | 12 | GLU | 2.2 |
| 1 | A | 208 | GLY | 2.2 |
| 15 | k | 49 | ASP | 2.2 |
| 2 | 2 | 292 | ARG | 2.2 |

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| Mol | Chain | Res | Type | RSRZ |
|------------|--------------|------------|-------------|-------------|
| 1 | a | 677 | PHE | 2.2 |
| 2 | 2 | 462 | GLN | 2.2 |
| 14 | e | 21 | ASP | 2.2 |
| 9 | K | 38 | TYR | 2.2 |
| 2 | 2 | 242 | HIS | 2.2 |
| 1 | a | 307 | ALA | 2.2 |
| 4 | d | 48 | ALA | 2.2 |
| 6 | f | 21 | LYS | 2.2 |
| 9 | K | 49 | ASP | 2.2 |
| 16 | 1 | 144 | PHE | 2.2 |
| 1 | a | 222 | PRO | 2.2 |
| 2 | B | 479 | PRO | 2.2 |
| 2 | B | 731 | GLY | 2.2 |
| 1 | A | 297 | HIS | 2.2 |
| 1 | a | 684 | MET | 2.2 |
| 2 | B | 473 | ASP | 2.2 |
| 2 | 2 | 57 | ILE | 2.2 |
| 12 | b | 297 | ILE | 2.2 |
| 10 | L | 107 | GLU | 2.2 |
| 1 | a | 68 | VAL | 2.1 |
| 4 | d | 32 | TRP | 2.1 |
| 1 | A | 751 | GLY | 2.1 |
| 2 | B | 227 | THR | 2.1 |
| 2 | B | 252 | THR | 2.1 |
| 2 | 2 | 130 | THR | 2.1 |
| 4 | D | 92 | GLY | 2.1 |
| 1 | a | 635 | PHE | 2.1 |
| 16 | 1 | 748 | LEU | 2.1 |
| 17 | 4 | 81 | GLN | 2.1 |
| 2 | B | 423 | VAL | 2.1 |
| 14 | e | 25 | VAL | 2.1 |
| 15 | k | 73 | GLY | 2.1 |
| 16 | 1 | 229 | ALA | 2.1 |
| 16 | 1 | 241 | GLU | 2.1 |
| 2 | 2 | 588 | THR | 2.1 |
| 1 | a | 25 | PHE | 2.1 |
| 2 | 2 | 457 | PHE | 2.1 |
| 2 | 2 | 345 | LEU | 2.1 |
| 1 | A | 355 | ASN | 2.1 |
| 8 | 7 | 5 | LYS | 2.1 |
| 16 | 1 | 136 | GLY | 2.1 |
| 1 | a | 729 | ALA | 2.1 |

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| Mol | Chain | Res | Type | RSRZ |
|------------|--------------|------------|-------------|-------------|
| 2 | 2 | 576 | ALA | 2.1 |
| 18 | h | 7 | ALA | 2.1 |
| 16 | 1 | 23 | THR | 2.1 |
| 1 | a | 548 | ILE | 2.1 |
| 4 | d | 97 | LEU | 2.1 |
| 16 | 1 | 361 | SER | 2.1 |
| 17 | 4 | 118 | LYS | 2.1 |
| 10 | l | 92 | ALA | 2.1 |
| 14 | e | 53 | ALA | 2.1 |
| 16 | 1 | 265 | THR | 2.1 |
| 4 | d | 3 | GLU | 2.1 |
| 5 | 5 | 12 | LYS | 2.1 |
| 15 | k | 74 | HIS | 2.1 |
| 5 | 5 | 47 | ASN | 2.1 |
| 1 | a | 308 | GLY | 2.1 |
| 2 | 2 | 315 | ALA | 2.1 |
| 16 | 1 | 213 | ALA | 2.1 |
| 18 | h | 6 | ALA | 2.1 |
| 1 | a | 363 | THR | 2.1 |
| 2 | B | 431 | THR | 2.1 |
| 12 | b | 620 | TYR | 2.1 |
| 16 | 1 | 236 | ILE | 2.1 |
| 1 | a | 369 | HIS | 2.1 |
| 1 | a | 747 | SER | 2.1 |
| 10 | l | 20 | LEU | 2.1 |
| 1 | A | 485 | TRP | 2.1 |
| 16 | 1 | 708 | ASN | 2.1 |
| 1 | a | 675 | GLY | 2.1 |
| 19 | 8 | 80 | MET | 2.1 |
| 2 | 2 | 219 | PRO | 2.1 |
| 12 | b | 576 | ALA | 2.1 |
| 17 | 4 | 51 | ASN | 2.1 |
| 1 | A | 10 | ALA | 2.0 |
| 2 | 2 | 511 | PRO | 2.0 |
| 16 | 1 | 299 | ALA | 2.0 |
| 1 | a | 622 | SER | 2.0 |
| 4 | D | 89 | TYR | 2.0 |
| 10 | l | 89 | ILE | 2.0 |
| 16 | 1 | 632 | LEU | 2.0 |
| 16 | 1 | 686 | LEU | 2.0 |
| 17 | 4 | 115 | GLN | 2.0 |
| 18 | h | 3 | GLY | 2.0 |

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| Mol | Chain | Res | Type | RSRZ |
|-----|-------|-----|------|------|
| 1 | A | 235 | ASP | 2.0 |
| 6 | 6 | 64 | ASP | 2.0 |
| 2 | 2 | 655 | ALA | 2.0 |
| 2 | 2 | 293 | THR | 2.0 |
| 16 | 1 | 109 | HIS | 2.0 |
| 16 | 1 | 617 | VAL | 2.0 |
| 1 | a | 24 | SER | 2.0 |
| 8 | j | 6 | SER | 2.0 |
| 1 | A | 362 | LEU | 2.0 |
| 2 | 2 | 157 | LEU | 2.0 |
| 4 | d | 122 | ILE | 2.0 |
| 16 | 1 | 145 | TYR | 2.0 |
| 12 | b | 577 | MET | 2.0 |
| 2 | 2 | 264 | GLN | 2.0 |
| 2 | 2 | 340 | GLY | 2.0 |
| 2 | 2 | 568 | SER | 2.0 |
| 9 | K | 87 | SER | 2.0 |
| 12 | b | 418 | SER | 2.0 |
| 16 | 1 | 366 | VAL | 2.0 |
| 1 | a | 340 | LEU | 2.0 |
| 2 | 2 | 342 | ILE | 2.0 |
| 5 | E | 34 | LEU | 2.0 |
| 6 | 6 | 40 | TYR | 2.0 |

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

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

6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 24 | BCR | k | 4001 | 40/40 | 0.22 | 0.61 | 119,152,167,168 | 0 |
| 24 | BCR | 8 | 4001 | 40/40 | 0.53 | 0.54 | 105,124,139,140 | 0 |
| 34 | ZEX | 7 | 4015 | 42/42 | 0.54 | 0.43 | 100,131,150,152 | 0 |
| 27 | ACT | a | 7001 | 4/4 | 0.55 | 0.18 | 128,130,130,131 | 0 |
| 24 | BCR | 2 | 4004 | 40/40 | 0.56 | 0.86 | 105,125,145,147 | 0 |
| 25 | LHG | B | 5006 | 49/49 | 0.60 | 0.90 | 84,117,143,146 | 0 |
| 26 | LMG | A | 5008 | 55/55 | 0.60 | 0.65 | 72,119,146,146 | 0 |
| 24 | BCR | B | 4018 | 40/40 | 0.62 | 0.61 | 64,85,115,121 | 0 |
| 26 | LMG | b | 5007 | 55/55 | 0.62 | 0.61 | 76,97,115,116 | 0 |
| 24 | BCR | K | 4001 | 40/40 | 0.62 | 0.38 | 40,73,103,106 | 0 |
| 21 | CLA | a | 1113 | 50/65 | 0.62 | 0.47 | 116,145,155,159 | 0 |
| 25 | LHG | 1 | 5005 | 49/49 | 0.63 | 0.38 | 90,126,165,169 | 0 |
| 25 | LHG | F | 5002 | 49/49 | 0.64 | 0.41 | 73,110,175,181 | 0 |
| 24 | BCR | 1 | 4001 | 40/40 | 0.65 | 0.50 | 90,109,136,137 | 0 |
| 24 | BCR | 1 | 4019 | 40/40 | 0.66 | 0.63 | 106,122,142,143 | 0 |
| 24 | BCR | b | 4018 | 40/40 | 0.67 | 0.45 | 53,76,95,100 | 0 |
| 24 | BCR | 2 | 4018 | 40/40 | 0.67 | 0.81 | 83,136,143,144 | 0 |
| 21 | CLA | 6 | 1302 | 43/65 | 0.68 | 0.56 | 116,141,171,178 | 0 |
| 24 | BCR | 2 | 4005 | 40/40 | 0.68 | 0.34 | 81,113,134,136 | 0 |
| 26 | LMG | B | 5005 | 55/55 | 0.68 | 0.40 | 71,110,133,137 | 0 |
| 24 | BCR | 7 | 4013 | 40/40 | 0.69 | 0.39 | 78,113,122,124 | 0 |
| 34 | ZEX | j | 4015 | 42/42 | 0.69 | 0.37 | 51,97,113,117 | 0 |
| 25 | LHG | l | 5004 | 49/49 | 0.69 | 0.26 | 48,75,159,163 | 0 |
| 25 | LHG | l | 5002 | 49/49 | 0.70 | 0.29 | 65,87,148,157 | 0 |
| 25 | LHG | a | 5007 | 49/49 | 0.70 | 0.70 | 100,139,169,175 | 0 |
| 21 | CLA | 2 | 1217 | 52/65 | 0.71 | 0.34 | 99,130,138,139 | 0 |
| 25 | LHG | a | 5005 | 49/49 | 0.71 | 0.25 | 51,107,175,183 | 0 |
| 24 | BCR | a | 4001 | 40/40 | 0.72 | 0.34 | 89,142,156,156 | 0 |
| 26 | LMG | 2 | 5005 | 55/55 | 0.72 | 0.54 | 105,127,150,153 | 0 |
| 27 | ACT | B | 7001 | 4/4 | 0.72 | 0.38 | 57,71,71,74 | 0 |
| 25 | LHG | 1 | 5007 | 49/49 | 0.72 | 0.46 | 80,102,149,154 | 0 |
| 31 | SQD | b | 5006 | 54/54 | 0.72 | 0.32 | 46,81,138,143 | 0 |
| 25 | LHG | M | 5001 | 49/49 | 0.72 | 0.24 | 51,97,144,149 | 0 |
| 24 | BCR | a | 4003 | 40/40 | 0.72 | 0.39 | 81,121,142,146 | 0 |
| 35 | LMT | 1 | 6001 | 35/35 | 0.72 | 0.40 | 76,127,136,141 | 0 |
| 37 | DGD | L | 5004 | 66/66 | 0.72 | 0.33 | 42,87,116,121 | 0 |
| 25 | LHG | A | 5006 | 49/49 | 0.73 | 0.36 | 44,81,137,147 | 0 |
| 25 | LHG | 0 | 5004 | 49/49 | 0.73 | 0.30 | 55,96,124,136 | 0 |
| 26 | LMG | a | 5002 | 50/55 | 0.73 | 0.23 | 54,78,109,110 | 0 |
| 24 | BCR | a | 4019 | 40/40 | 0.74 | 0.53 | 98,114,155,155 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 24 | BCR | a | 4002 | 40/40 | 0.74 | 0.27 | 108,123,141,142 | 0 |
| 25 | LHG | 2 | 5004 | 49/49 | 0.74 | 0.41 | 92,108,152,153 | 0 |
| 24 | BCR | A | 4019 | 40/40 | 0.74 | 0.55 | 72,84,114,114 | 0 |
| 23 | SF4 | C | 3002 | 8/8 | 0.75 | 0.23 | 43,65,114,208 | 0 |
| 21 | CLA | 2 | 1209 | 45/65 | 0.75 | 0.36 | 104,130,139,142 | 0 |
| 25 | LHG | 6 | 5001 | 12/49 | 0.75 | 0.23 | 80,131,152,159 | 0 |
| 31 | SQD | f | 5001 | 54/54 | 0.75 | 0.36 | 42,100,123,132 | 0 |
| 21 | CLA | 1 | 1108 | 47/65 | 0.76 | 0.33 | 50,112,123,128 | 0 |
| 31 | SQD | 0 | 5005 | 54/54 | 0.76 | 0.23 | 59,91,141,148 | 0 |
| 34 | ZEX | J | 4015 | 42/42 | 0.76 | 0.30 | 55,68,112,116 | 0 |
| 26 | LMG | A | 5002 | 50/55 | 0.76 | 0.23 | 40,72,99,106 | 0 |
| 21 | CLA | 2 | 1240 | 41/65 | 0.76 | 0.48 | 131,137,146,150 | 0 |
| 35 | LMT | l | 6001 | 35/35 | 0.76 | 0.36 | 55,95,118,120 | 0 |
| 24 | BCR | 1 | 4003 | 40/40 | 0.76 | 0.32 | 71,105,134,138 | 0 |
| 25 | LHG | A | 5005 | 49/49 | 0.76 | 0.27 | 48,72,132,139 | 0 |
| 25 | LHG | l | 5003 | 49/49 | 0.77 | 0.36 | 81,111,137,138 | 0 |
| 21 | CLA | 2 | 1212 | 41/65 | 0.77 | 0.34 | 100,132,137,144 | 0 |
| 24 | BCR | 6 | 4016 | 40/40 | 0.77 | 0.42 | 59,91,128,129 | 0 |
| 21 | CLA | 2 | 1216 | 50/65 | 0.77 | 0.32 | 91,127,138,139 | 0 |
| 21 | CLA | B | 1240 | 65/65 | 0.77 | 0.40 | 76,105,133,136 | 0 |
| 21 | CLA | k | 1402 | 49/65 | 0.77 | 0.26 | 134,158,161,161 | 8 |
| 25 | LHG | A | 5007 | 49/49 | 0.77 | 0.32 | 46,85,113,121 | 0 |
| 25 | LHG | l | 5001 | 49/49 | 0.77 | 0.37 | 64,92,141,144 | 0 |
| 30 | ECH | 2 | 4006 | 41/41 | 0.77 | 0.34 | 65,122,132,133 | 0 |
| 24 | BCR | B | 4004 | 40/40 | 0.78 | 0.31 | 63,93,109,110 | 0 |
| 26 | LMG | K | 5009 | 55/55 | 0.78 | 0.24 | 41,80,106,107 | 0 |
| 21 | CLA | a | 1114 | 52/65 | 0.78 | 0.34 | 119,138,150,152 | 0 |
| 24 | BCR | j | 4013 | 40/40 | 0.78 | 0.32 | 72,90,121,123 | 0 |
| 26 | LMG | 1 | 5002 | 50/55 | 0.78 | 0.31 | 44,94,119,120 | 0 |
| 21 | CLA | 2 | 1231 | 46/65 | 0.78 | 0.27 | 84,122,128,129 | 0 |
| 21 | CLA | J | 1302 | 65/65 | 0.79 | 0.32 | 75,95,121,137 | 0 |
| 24 | BCR | 1 | 4012 | 40/40 | 0.79 | 0.33 | 100,112,124,125 | 0 |
| 31 | SQD | F | 5001 | 54/54 | 0.79 | 0.42 | 66,93,129,134 | 0 |
| 26 | LMG | a | 5004 | 55/55 | 0.80 | 0.26 | 85,112,130,136 | 0 |
| 26 | LMG | b | 5005 | 55/55 | 0.80 | 0.36 | 54,79,114,116 | 0 |
| 21 | CLA | k | 1401 | 50/65 | 0.80 | 0.24 | 84,137,147,152 | 5 |
| 21 | CLA | a | 1112 | 65/65 | 0.80 | 0.26 | 74,129,135,137 | 0 |
| 21 | CLA | 1 | 1105 | 50/65 | 0.80 | 0.28 | 96,116,123,126 | 0 |
| 21 | CLA | a | 1115 | 65/65 | 0.80 | 0.28 | 89,133,152,154 | 0 |
| 21 | CLA | 1 | 1139 | 65/65 | 0.80 | 0.28 | 75,115,124,125 | 0 |
| 21 | CLA | a | 1118 | 65/65 | 0.80 | 0.24 | 102,119,142,150 | 0 |
| 21 | CLA | a | 1120 | 55/65 | 0.80 | 0.27 | 98,124,129,138 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 24 | BCR | 2 | 4010 | 40/40 | 0.81 | 0.32 | 66,101,136,136 | 0 |
| 21 | CLA | a | 1108 | 57/65 | 0.81 | 0.22 | 91,124,129,130 | 0 |
| 21 | CLA | J | 1303 | 65/65 | 0.81 | 0.34 | 93,112,125,127 | 0 |
| 21 | CLA | 2 | 1213 | 50/65 | 0.81 | 0.35 | 99,122,130,139 | 0 |
| 21 | CLA | 1 | 1134 | 65/65 | 0.81 | 0.24 | 89,105,120,125 | 0 |
| 21 | CLA | 1 | 1138 | 60/65 | 0.81 | 0.28 | 84,118,134,136 | 0 |
| 21 | CLA | 2 | 1218 | 65/65 | 0.81 | 0.31 | 91,133,158,162 | 0 |
| 21 | CLA | 2 | 1219 | 53/65 | 0.81 | 0.24 | 108,125,148,156 | 0 |
| 21 | CLA | a | 1102 | 65/65 | 0.81 | 0.33 | 68,92,118,128 | 0 |
| 26 | LMG | 1 | 5004 | 55/55 | 0.81 | 0.36 | 83,97,112,118 | 0 |
| 21 | CLA | 2 | 1232 | 45/65 | 0.81 | 0.25 | 101,128,147,151 | 0 |
| 21 | CLA | 2 | 1234 | 50/65 | 0.81 | 0.25 | 90,107,111,113 | 0 |
| 27 | ACT | A | 7001 | 4/4 | 0.82 | 0.33 | 28,55,63,71 | 0 |
| 24 | BCR | b | 4014 | 40/40 | 0.82 | 0.29 | 59,79,88,92 | 0 |
| 21 | CLA | 1 | 1109 | 65/65 | 0.82 | 0.45 | 72,109,120,122 | 0 |
| 21 | CLA | 1 | 1113 | 44/65 | 0.82 | 0.31 | 83,124,133,135 | 0 |
| 24 | BCR | B | 4005 | 40/40 | 0.82 | 0.27 | 45,78,102,103 | 0 |
| 21 | CLA | 7 | 1303 | 41/65 | 0.82 | 0.39 | 133,150,155,157 | 0 |
| 21 | CLA | j | 1302 | 65/65 | 0.82 | 0.35 | 77,110,125,133 | 0 |
| 23 | SF4 | A | 3001 | 8/8 | 0.83 | 0.27 | 40,87,137,173 | 0 |
| 21 | CLA | j | 1303 | 55/65 | 0.83 | 0.42 | 97,117,130,137 | 0 |
| 26 | LMG | 0 | 5001 | 55/55 | 0.83 | 0.28 | 34,74,99,107 | 0 |
| 21 | CLA | 2 | 1235 | 53/65 | 0.83 | 0.24 | 82,112,122,123 | 0 |
| 21 | CLA | 1 | 1120 | 65/65 | 0.83 | 0.20 | 85,102,126,128 | 0 |
| 21 | CLA | 2 | 1202 | 65/65 | 0.83 | 0.26 | 56,94,106,108 | 0 |
| 24 | BCR | 2 | 4014 | 40/40 | 0.83 | 0.35 | 78,113,132,136 | 0 |
| 21 | CLA | a | 1123 | 65/65 | 0.83 | 0.30 | 55,105,117,121 | 0 |
| 31 | SQD | L | 5002 | 54/54 | 0.83 | 0.23 | 33,61,95,99 | 0 |
| 21 | CLA | 1 | 1123 | 65/65 | 0.84 | 0.28 | 49,86,107,115 | 0 |
| 21 | CLA | 1 | 1103 | 65/65 | 0.84 | 0.25 | 63,87,101,103 | 0 |
| 21 | CLA | 1 | 1114 | 45/65 | 0.84 | 0.36 | 107,117,125,129 | 0 |
| 21 | CLA | a | 1801 | 55/65 | 0.84 | 0.24 | 83,118,128,133 | 0 |
| 21 | CLA | 6 | 1301 | 47/65 | 0.84 | 0.22 | 99,128,135,136 | 0 |
| 24 | BCR | a | 4007 | 40/40 | 0.84 | 0.37 | 69,87,144,147 | 0 |
| 31 | SQD | B | 5008 | 54/54 | 0.84 | 0.32 | 61,86,107,113 | 0 |
| 26 | LMG | A | 5004 | 48/55 | 0.84 | 0.31 | 37,84,102,107 | 0 |
| 21 | CLA | 2 | 1214 | 59/65 | 0.84 | 0.25 | 70,109,135,159 | 0 |
| 24 | BCR | 1 | 4022 | 40/40 | 0.85 | 0.25 | 57,74,97,100 | 0 |
| 24 | BCR | 9 | 4021 | 40/40 | 0.85 | 0.29 | 58,80,116,118 | 0 |
| 21 | CLA | 1 | 1013 | 65/65 | 0.85 | 0.28 | 73,91,97,104 | 0 |
| 24 | BCR | 1 | 4002 | 40/40 | 0.85 | 0.24 | 89,100,119,123 | 0 |
| 24 | BCR | A | 4003 | 40/40 | 0.85 | 0.26 | 32,53,89,91 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 24 | BCR | 1 | 4007 | 40/40 | 0.85 | 0.32 | 55,73,127,132 | 0 |
| 24 | BCR | a | 4008 | 40/40 | 0.85 | 0.28 | 51,82,109,118 | 0 |
| 21 | CLA | 7 | 1302 | 41/65 | 0.85 | 0.42 | 120,130,140,143 | 0 |
| 21 | CLA | 2 | 1230 | 47/65 | 0.86 | 0.18 | 89,114,127,129 | 0 |
| 21 | CLA | b | 1231 | 65/65 | 0.86 | 0.20 | 50,69,93,98 | 0 |
| 25 | LHG | 0 | 5002 | 49/49 | 0.86 | 0.17 | 44,63,131,140 | 0 |
| 21 | CLA | a | 1011 | 65/65 | 0.86 | 0.20 | 40,58,71,96 | 0 |
| 25 | LHG | B | 5004 | 49/49 | 0.86 | 0.25 | 73,87,96,101 | 0 |
| 21 | CLA | 1 | 1115 | 65/65 | 0.86 | 0.23 | 78,119,130,131 | 0 |
| 21 | CLA | 2 | 1220 | 45/65 | 0.86 | 0.27 | 114,124,128,132 | 0 |
| 31 | SQD | L | 5001 | 51/54 | 0.86 | 0.21 | 42,80,104,107 | 0 |
| 22 | PQN | 1 | 2001 | 33/33 | 0.86 | 0.29 | 67,88,108,108 | 0 |
| 21 | CLA | 2 | 1222 | 50/65 | 0.86 | 0.32 | 69,105,119,122 | 0 |
| 24 | BCR | b | 4004 | 40/40 | 0.86 | 0.21 | 36,60,76,87 | 0 |
| 21 | CLA | 2 | 1229 | 65/65 | 0.86 | 0.26 | 83,109,124,136 | 0 |
| 33 | MG | B | 6002 | 1/1 | 0.86 | 0.23 | 69,69,69,69 | 0 |
| 21 | CLA | 1 | 1116 | 65/65 | 0.86 | 0.22 | 75,95,118,121 | 0 |
| 21 | CLA | 1 | 1117 | 65/65 | 0.86 | 0.31 | 57,99,112,123 | 0 |
| 21 | CLA | a | 1111 | 65/65 | 0.86 | 0.28 | 76,106,131,133 | 0 |
| 21 | CLA | B | 1232 | 50/65 | 0.86 | 0.23 | 81,92,105,108 | 0 |
| 26 | LMG | 2 | 5002 | 55/55 | 0.86 | 0.26 | 55,72,93,107 | 0 |
| 21 | CLA | a | 1116 | 60/65 | 0.86 | 0.27 | 79,99,109,110 | 0 |
| 25 | LHG | a | 5003 | 49/49 | 0.87 | 0.36 | 76,96,106,109 | 0 |
| 21 | CLA | 1 | 1118 | 65/65 | 0.87 | 0.22 | 79,103,130,134 | 0 |
| 21 | CLA | 2 | 1215 | 60/65 | 0.87 | 0.23 | 73,100,112,118 | 0 |
| 21 | CLA | 2 | 1236 | 50/65 | 0.87 | 0.27 | 75,110,117,124 | 0 |
| 21 | CLA | 1 | 1104 | 65/65 | 0.87 | 0.27 | 65,91,99,106 | 0 |
| 21 | CLA | b | 1236 | 65/65 | 0.87 | 0.25 | 48,74,118,122 | 0 |
| 21 | CLA | f | 1302 | 65/65 | 0.87 | 0.35 | 67,99,109,115 | 0 |
| 21 | CLA | B | 1231 | 65/65 | 0.87 | 0.22 | 66,84,101,104 | 0 |
| 21 | CLA | A | 1113 | 65/65 | 0.87 | 0.31 | 41,64,105,111 | 0 |
| 21 | CLA | 2 | 1221 | 65/65 | 0.87 | 0.25 | 84,95,132,137 | 0 |
| 21 | CLA | a | 1139 | 65/65 | 0.87 | 0.20 | 64,86,103,105 | 0 |
| 21 | CLA | B | 1209 | 65/65 | 0.87 | 0.23 | 67,88,123,127 | 0 |
| 35 | LMT | L | 6001 | 35/35 | 0.87 | 0.27 | 55,79,90,97 | 0 |
| 21 | CLA | a | 1101 | 65/65 | 0.87 | 0.21 | 50,83,91,100 | 0 |
| 25 | LHG | L | 5005 | 49/49 | 0.87 | 0.22 | 46,75,102,104 | 0 |
| 21 | CLA | F | 1302 | 65/65 | 0.87 | 0.22 | 70,93,105,114 | 0 |
| 21 | CLA | B | 1219 | 65/65 | 0.88 | 0.19 | 73,94,125,126 | 0 |
| 30 | ECH | b | 4011 | 41/41 | 0.88 | 0.28 | 60,81,90,94 | 0 |
| 21 | CLA | 1 | 1133 | 65/65 | 0.88 | 0.20 | 73,87,99,107 | 0 |
| 24 | BCR | 2 | 4011 | 40/40 | 0.88 | 0.26 | 60,93,104,109 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 21 | CLA | a | 1121 | 65/65 | 0.88 | 0.28 | 94,117,142,146 | 0 |
| 24 | BCR | a | 4012 | 40/40 | 0.88 | 0.26 | 66,95,106,110 | 0 |
| 21 | CLA | a | 1110 | 59/65 | 0.88 | 0.23 | 77,109,156,159 | 0 |
| 21 | CLA | a | 1125 | 65/65 | 0.88 | 0.24 | 64,91,106,111 | 0 |
| 21 | CLA | a | 1134 | 49/65 | 0.88 | 0.17 | 73,118,128,132 | 0 |
| 24 | BCR | f | 4016 | 40/40 | 0.88 | 0.22 | 66,81,104,107 | 0 |
| 21 | CLA | 2 | 1208 | 60/65 | 0.88 | 0.18 | 63,88,138,142 | 0 |
| 24 | BCR | B | 4010 | 40/40 | 0.88 | 0.32 | 51,66,81,84 | 0 |
| 21 | CLA | a | 1105 | 58/65 | 0.88 | 0.25 | 78,110,122,129 | 0 |
| 21 | CLA | 2 | 1210 | 65/65 | 0.88 | 0.23 | 75,107,116,119 | 0 |
| 25 | LHG | 1 | 5003 | 49/49 | 0.88 | 0.33 | 62,83,96,99 | 0 |
| 21 | CLA | a | 1119 | 65/65 | 0.88 | 0.27 | 54,82,128,133 | 0 |
| 21 | CLA | 2 | 1225 | 65/65 | 0.88 | 0.22 | 52,92,111,114 | 0 |
| 21 | CLA | 2 | 1227 | 45/65 | 0.88 | 0.18 | 81,94,127,131 | 0 |
| 21 | CLA | b | 1240 | 65/65 | 0.89 | 0.23 | 60,88,134,154 | 0 |
| 21 | CLA | F | 1301 | 65/65 | 0.89 | 0.22 | 53,77,121,124 | 0 |
| 21 | CLA | 1 | 1107 | 51/65 | 0.89 | 0.17 | 83,102,117,121 | 0 |
| 21 | CLA | a | 1107 | 50/65 | 0.89 | 0.18 | 68,88,108,112 | 0 |
| 24 | BCR | L | 4022 | 40/40 | 0.89 | 0.21 | 41,57,81,86 | 0 |
| 21 | CLA | 1 | 1127 | 65/65 | 0.89 | 0.28 | 64,86,112,118 | 0 |
| 21 | CLA | B | 1216 | 65/65 | 0.89 | 0.24 | 65,85,101,106 | 0 |
| 24 | BCR | 0 | 4022 | 40/40 | 0.89 | 0.24 | 41,60,87,92 | 0 |
| 21 | CLA | 1 | 1112 | 50/65 | 0.89 | 0.23 | 83,109,122,126 | 0 |
| 32 | CA | 2 | 6001 | 1/1 | 0.89 | 0.06 | 112,112,112,112 | 0 |
| 21 | CLA | a | 1122 | 65/65 | 0.89 | 0.23 | 61,95,108,113 | 0 |
| 24 | BCR | A | 4002 | 40/40 | 0.89 | 0.24 | 33,60,75,82 | 0 |
| 24 | BCR | 1 | 4008 | 40/40 | 0.89 | 0.24 | 49,69,93,95 | 0 |
| 21 | CLA | b | 1227 | 65/65 | 0.89 | 0.25 | 58,73,120,124 | 0 |
| 21 | CLA | a | 1117 | 65/65 | 0.89 | 0.38 | 64,89,103,112 | 0 |
| 21 | CLA | a | 1109 | 65/65 | 0.89 | 0.20 | 65,102,118,124 | 0 |
| 24 | BCR | b | 4010 | 40/40 | 0.89 | 0.21 | 41,58,68,71 | 0 |
| 30 | ECH | B | 4006 | 41/41 | 0.89 | 0.19 | 45,86,105,108 | 0 |
| 21 | CLA | 1 | 1012 | 65/65 | 0.90 | 0.26 | 72,88,98,101 | 0 |
| 21 | CLA | a | 1133 | 65/65 | 0.90 | 0.19 | 70,95,114,117 | 0 |
| 25 | LHG | 1 | 5001 | 49/49 | 0.90 | 0.24 | 64,84,101,104 | 0 |
| 28 | 45D | h | 4020 | 42/42 | 0.90 | 0.19 | 33,55,68,75 | 0 |
| 21 | CLA | 2 | 1203 | 65/65 | 0.90 | 0.26 | 57,88,101,105 | 0 |
| 21 | CLA | 2 | 1205 | 65/65 | 0.90 | 0.20 | 54,77,89,91 | 0 |
| 21 | CLA | 1 | 1102 | 55/65 | 0.90 | 0.21 | 50,81,117,120 | 0 |
| 24 | BCR | l | 4019 | 40/40 | 0.90 | 0.23 | 29,44,54,56 | 0 |
| 21 | CLA | b | 1232 | 65/65 | 0.90 | 0.22 | 64,79,121,123 | 0 |
| 21 | CLA | B | 1218 | 65/65 | 0.90 | 0.25 | 62,91,123,125 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 21 | CLA | 2 | 1211 | 50/65 | 0.90 | 0.16 | 80,110,117,123 | 0 |
| 21 | CLA | B | 1217 | 65/65 | 0.90 | 0.23 | 64,93,113,116 | 0 |
| 21 | CLA | 1 | 1121 | 55/65 | 0.90 | 0.20 | 58,96,124,128 | 0 |
| 21 | CLA | b | 1230 | 65/65 | 0.90 | 0.22 | 53,86,120,125 | 0 |
| 21 | CLA | 1 | 1126 | 65/65 | 0.90 | 0.23 | 58,94,108,115 | 0 |
| 21 | CLA | a | 1106 | 65/65 | 0.90 | 0.24 | 58,95,106,112 | 0 |
| 21 | CLA | 1 | 1128 | 65/65 | 0.90 | 0.21 | 62,79,99,113 | 0 |
| 21 | CLA | a | 1128 | 65/65 | 0.90 | 0.20 | 59,86,97,102 | 0 |
| 25 | LHG | b | 5004 | 49/49 | 0.90 | 0.23 | 63,80,101,105 | 0 |
| 35 | LMT | F | 6001 | 35/35 | 0.90 | 0.28 | 57,88,112,115 | 0 |
| 21 | CLA | b | 1021 | 65/65 | 0.90 | 0.18 | 36,52,66,72 | 0 |
| 21 | CLA | b | 1222 | 65/65 | 0.90 | 0.25 | 38,54,114,118 | 0 |
| 24 | BCR | b | 4005 | 40/40 | 0.90 | 0.19 | 30,47,90,91 | 0 |
| 21 | CLA | a | 1129 | 52/65 | 0.90 | 0.17 | 64,85,95,98 | 0 |
| 21 | CLA | B | 1234 | 65/65 | 0.91 | 0.22 | 39,73,95,100 | 0 |
| 21 | CLA | 2 | 1228 | 45/65 | 0.91 | 0.16 | 53,67,126,132 | 0 |
| 24 | BCR | B | 4017 | 40/40 | 0.91 | 0.25 | 22,44,56,57 | 0 |
| 21 | CLA | b | 1208 | 60/65 | 0.91 | 0.15 | 36,53,91,103 | 0 |
| 24 | BCR | J | 4013 | 40/40 | 0.91 | 0.19 | 48,69,89,91 | 0 |
| 27 | ACT | B | 7002 | 4/4 | 0.91 | 0.11 | 78,82,83,84 | 0 |
| 21 | CLA | 2 | 1206 | 65/65 | 0.91 | 0.17 | 44,66,80,88 | 0 |
| 21 | CLA | b | 1220 | 65/65 | 0.91 | 0.20 | 48,64,100,103 | 0 |
| 21 | CLA | l | 1501 | 65/65 | 0.91 | 0.21 | 48,69,110,117 | 0 |
| 29 | CL | 2 | 6000 | 1/1 | 0.91 | 0.31 | 74,74,74,74 | 0 |
| 21 | CLA | B | 1210 | 65/65 | 0.91 | 0.16 | 38,67,90,92 | 0 |
| 21 | CLA | a | 1126 | 65/65 | 0.91 | 0.24 | 71,91,104,105 | 0 |
| 30 | ECH | b | 4006 | 41/41 | 0.91 | 0.16 | 32,47,97,99 | 0 |
| 30 | ECH | i | 4020 | 41/41 | 0.91 | 0.22 | 38,53,83,90 | 0 |
| 30 | ECH | m | 4021 | 41/41 | 0.91 | 0.19 | 23,49,80,80 | 0 |
| 21 | CLA | b | 1228 | 65/65 | 0.91 | 0.18 | 58,73,117,121 | 0 |
| 21 | CLA | 1 | 1125 | 65/65 | 0.91 | 0.28 | 56,78,91,94 | 0 |
| 21 | CLA | B | 1211 | 65/65 | 0.91 | 0.17 | 45,76,102,107 | 0 |
| 21 | CLA | B | 1213 | 65/65 | 0.91 | 0.18 | 58,80,112,120 | 0 |
| 21 | CLA | B | 1227 | 55/65 | 0.91 | 0.26 | 67,76,102,107 | 0 |
| 21 | CLA | B | 1228 | 65/65 | 0.91 | 0.20 | 44,66,113,122 | 0 |
| 21 | CLA | 8 | 1401 | 45/65 | 0.91 | 0.12 | 83,101,137,143 | 3 |
| 22 | PQN | a | 2001 | 33/33 | 0.91 | 0.24 | 39,65,84,87 | 0 |
| 21 | CLA | K | 1402 | 65/65 | 0.91 | 0.20 | 50,71,111,115 | 10 |
| 26 | LMG | B | 5002 | 55/55 | 0.91 | 0.19 | 36,52,81,89 | 0 |
| 21 | CLA | 1 | 1111 | 65/65 | 0.91 | 0.19 | 63,85,113,118 | 0 |
| 21 | CLA | f | 1301 | 50/65 | 0.91 | 0.15 | 74,93,114,116 | 0 |
| 21 | CLA | 1 | 1101 | 65/65 | 0.91 | 0.22 | 58,88,120,123 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 21 | CLA | B | 1214 | 65/65 | 0.91 | 0.22 | 48,81,89,92 | 0 |
| 26 | LMG | b | 5002 | 55/55 | 0.91 | 0.20 | 36,55,84,89 | 0 |
| 21 | CLA | 2 | 1223 | 55/65 | 0.91 | 0.26 | 64,99,141,145 | 0 |
| 21 | CLA | A | 1112 | 65/65 | 0.91 | 0.17 | 39,62,94,98 | 0 |
| 25 | LHG | a | 5001 | 49/49 | 0.91 | 0.25 | 57,72,117,128 | 0 |
| 21 | CLA | B | 1235 | 65/65 | 0.92 | 0.26 | 45,66,92,94 | 0 |
| 24 | BCR | i | 4018 | 40/40 | 0.92 | 0.22 | 29,52,63,69 | 0 |
| 21 | CLA | b | 1229 | 65/65 | 0.92 | 0.22 | 54,68,97,108 | 0 |
| 23 | SF4 | C | 3003 | 8/8 | 0.92 | 0.14 | 53,74,78,84 | 0 |
| 21 | CLA | 1 | 1106 | 65/65 | 0.92 | 0.21 | 49,91,119,122 | 0 |
| 21 | CLA | A | 1123 | 65/65 | 0.92 | 0.18 | 25,38,52,60 | 0 |
| 21 | CLA | B | 1230 | 65/65 | 0.92 | 0.21 | 29,68,110,114 | 0 |
| 24 | BCR | A | 4012 | 40/40 | 0.92 | 0.19 | 43,60,73,73 | 0 |
| 21 | CLA | b | 1235 | 65/65 | 0.92 | 0.19 | 45,80,93,97 | 0 |
| 21 | CLA | 1 | 1110 | 50/65 | 0.92 | 0.15 | 70,91,137,157 | 0 |
| 30 | ECH | M | 4021 | 41/41 | 0.92 | 0.15 | 45,61,74,81 | 0 |
| 21 | CLA | 2 | 1226 | 55/65 | 0.92 | 0.20 | 55,70,91,97 | 0 |
| 21 | CLA | a | 1135 | 65/65 | 0.92 | 0.22 | 42,69,151,157 | 0 |
| 21 | CLA | 2 | 1021 | 65/65 | 0.92 | 0.24 | 45,67,114,117 | 0 |
| 24 | BCR | B | 4014 | 40/40 | 0.92 | 0.21 | 35,57,80,84 | 0 |
| 21 | CLA | 2 | 1023 | 65/65 | 0.92 | 0.20 | 46,60,68,82 | 0 |
| 21 | CLA | a | 1136 | 65/65 | 0.92 | 0.19 | 44,73,87,100 | 0 |
| 21 | CLA | A | 1125 | 65/65 | 0.92 | 0.21 | 22,46,61,65 | 0 |
| 21 | CLA | B | 1222 | 55/65 | 0.92 | 0.32 | 50,68,84,89 | 0 |
| 21 | CLA | a | 1138 | 65/65 | 0.92 | 0.16 | 50,77,85,90 | 0 |
| 21 | CLA | B | 1212 | 55/65 | 0.92 | 0.17 | 70,82,128,132 | 0 |
| 24 | BCR | h | 4018 | 40/40 | 0.92 | 0.21 | 36,60,75,79 | 0 |
| 21 | CLA | A | 1133 | 65/65 | 0.92 | 0.19 | 28,48,78,81 | 0 |
| 21 | CLA | b | 1206 | 65/65 | 0.92 | 0.17 | 28,48,62,80 | 0 |
| 24 | BCR | 0 | 4019 | 40/40 | 0.92 | 0.17 | 35,57,67,69 | 0 |
| 34 | ZEX | F | 4016 | 42/42 | 0.92 | 0.16 | 46,72,98,103 | 0 |
| 21 | CLA | 1 | 1119 | 65/65 | 0.92 | 0.27 | 53,75,92,112 | 0 |
| 21 | CLA | A | 1134 | 65/65 | 0.92 | 0.19 | 25,57,107,111 | 0 |
| 21 | CLA | b | 1213 | 65/65 | 0.92 | 0.28 | 39,64,89,93 | 0 |
| 21 | CLA | L | 1503 | 65/65 | 0.92 | 0.18 | 35,54,82,87 | 0 |
| 21 | CLA | 1 | 1124 | 56/65 | 0.92 | 0.22 | 44,66,87,93 | 0 |
| 24 | BCR | b | 4017 | 40/40 | 0.92 | 0.22 | 35,52,61,64 | 0 |
| 21 | CLA | B | 1202 | 65/65 | 0.92 | 0.17 | 32,54,66,69 | 0 |
| 35 | LMT | 0 | 6001 | 35/35 | 0.92 | 0.21 | 51,72,84,90 | 0 |
| 21 | CLA | A | 1122 | 60/65 | 0.92 | 0.16 | 25,42,70,83 | 0 |
| 21 | CLA | A | 1121 | 65/65 | 0.93 | 0.17 | 28,48,130,132 | 0 |
| 21 | CLA | 2 | 1201 | 65/65 | 0.93 | 0.16 | 61,77,86,90 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 21 | CLA | A | 1107 | 65/65 | 0.93 | 0.17 | 42,56,121,124 | 0 |
| 21 | CLA | A | 1108 | 53/65 | 0.93 | 0.20 | 30,57,91,92 | 0 |
| 21 | CLA | 2 | 1204 | 65/65 | 0.93 | 0.17 | 35,67,89,91 | 0 |
| 24 | BCR | A | 4001 | 40/40 | 0.93 | 0.15 | 35,52,68,68 | 0 |
| 24 | BCR | 2 | 4017 | 40/40 | 0.93 | 0.19 | 31,56,72,76 | 0 |
| 21 | CLA | b | 1209 | 65/65 | 0.93 | 0.14 | 40,57,100,107 | 0 |
| 21 | CLA | b | 1212 | 65/65 | 0.93 | 0.17 | 41,53,87,97 | 0 |
| 21 | CLA | A | 1109 | 65/65 | 0.93 | 0.17 | 36,54,65,74 | 0 |
| 21 | CLA | b | 1214 | 65/65 | 0.93 | 0.20 | 33,49,89,98 | 0 |
| 21 | CLA | b | 1216 | 65/65 | 0.93 | 0.16 | 41,57,91,102 | 0 |
| 21 | CLA | b | 1218 | 65/65 | 0.93 | 0.19 | 46,66,101,102 | 0 |
| 21 | CLA | b | 1219 | 60/65 | 0.93 | 0.22 | 33,66,132,132 | 0 |
| 21 | CLA | A | 1126 | 65/65 | 0.93 | 0.15 | 28,48,62,75 | 0 |
| 21 | CLA | A | 1127 | 65/65 | 0.93 | 0.24 | 22,42,59,64 | 0 |
| 25 | LHG | A | 5003 | 49/49 | 0.93 | 0.21 | 29,62,101,107 | 0 |
| 21 | CLA | b | 1224 | 65/65 | 0.93 | 0.19 | 33,48,83,87 | 0 |
| 21 | CLA | b | 1226 | 65/65 | 0.93 | 0.17 | 26,50,71,76 | 0 |
| 21 | CLA | K | 1401 | 65/65 | 0.93 | 0.22 | 33,63,97,102 | 15 |
| 21 | CLA | A | 1104 | 65/65 | 0.93 | 0.21 | 19,41,62,64 | 0 |
| 21 | CLA | B | 1220 | 57/65 | 0.93 | 0.17 | 53,78,101,108 | 0 |
| 21 | CLA | a | 1124 | 55/65 | 0.93 | 0.20 | 45,59,117,127 | 0 |
| 21 | CLA | B | 1221 | 65/65 | 0.93 | 0.18 | 50,62,95,98 | 0 |
| 21 | CLA | b | 1234 | 53/65 | 0.93 | 0.19 | 40,57,75,91 | 0 |
| 21 | CLA | 1 | 1122 | 60/65 | 0.93 | 0.18 | 47,75,101,106 | 0 |
| 21 | CLA | 2 | 1224 | 55/65 | 0.93 | 0.21 | 53,70,95,110 | 0 |
| 21 | CLA | A | 1105 | 65/65 | 0.93 | 0.16 | 44,68,92,95 | 0 |
| 21 | CLA | B | 1224 | 65/65 | 0.93 | 0.20 | 28,52,78,87 | 0 |
| 21 | CLA | B | 1225 | 65/65 | 0.93 | 0.25 | 41,61,70,76 | 0 |
| 21 | CLA | B | 1226 | 65/65 | 0.93 | 0.18 | 31,51,70,79 | 0 |
| 21 | CLA | A | 1139 | 65/65 | 0.93 | 0.17 | 43,59,83,91 | 0 |
| 21 | CLA | A | 1114 | 65/65 | 0.93 | 0.18 | 56,75,111,116 | 0 |
| 21 | CLA | B | 1208 | 65/65 | 0.93 | 0.16 | 53,76,108,111 | 0 |
| 21 | CLA | A | 1115 | 65/65 | 0.93 | 0.21 | 41,57,69,72 | 0 |
| 21 | CLA | 1 | 1135 | 52/65 | 0.93 | 0.17 | 53,69,89,108 | 0 |
| 21 | CLA | 1 | 1137 | 51/65 | 0.93 | 0.18 | 48,65,76,87 | 0 |
| 21 | CLA | A | 1119 | 65/65 | 0.93 | 0.18 | 27,39,52,56 | 0 |
| 21 | CLA | 1 | 1140 | 65/65 | 0.93 | 0.20 | 60,77,119,120 | 0 |
| 21 | CLA | A | 1120 | 65/65 | 0.93 | 0.13 | 30,53,102,104 | 0 |
| 21 | CLA | B | 1236 | 50/65 | 0.93 | 0.27 | 44,63,96,101 | 0 |
| 21 | CLA | 1 | 1011 | 65/65 | 0.93 | 0.18 | 38,62,88,103 | 0 |
| 21 | CLA | 2 | 1237 | 65/65 | 0.93 | 0.18 | 30,51,61,76 | 0 |
| 21 | CLA | b | 1237 | 65/65 | 0.93 | 0.16 | 36,55,71,76 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 21 | CLA | 8 | 1402 | 46/65 | 0.93 | 0.18 | 103,119,135,139 | 5 |
| 21 | CLA | b | 1210 | 65/65 | 0.94 | 0.14 | 31,43,63,68 | 0 |
| 22 | PQN | b | 2002 | 33/33 | 0.94 | 0.24 | 36,51,69,69 | 0 |
| 21 | CLA | 1 | 1801 | 56/65 | 0.94 | 0.15 | 62,76,106,112 | 0 |
| 22 | PQN | 2 | 2002 | 33/33 | 0.94 | 0.18 | 42,57,70,78 | 0 |
| 21 | CLA | b | 1211 | 65/65 | 0.94 | 0.14 | 29,46,98,103 | 0 |
| 21 | CLA | a | 1127 | 65/65 | 0.94 | 0.31 | 50,80,108,110 | 0 |
| 21 | CLA | A | 1128 | 65/65 | 0.94 | 0.17 | 29,43,62,86 | 0 |
| 28 | 45D | B | 4011 | 42/42 | 0.94 | 0.18 | 31,49,61,69 | 0 |
| 23 | SF4 | 1 | 3001 | 8/8 | 0.94 | 0.17 | 57,66,94,130 | 0 |
| 23 | SF4 | 3 | 3002 | 8/8 | 0.94 | 0.13 | 65,73,110,240 | 0 |
| 21 | CLA | 2 | 1022 | 65/65 | 0.94 | 0.18 | 34,62,74,74 | 0 |
| 21 | CLA | A | 1129 | 58/65 | 0.94 | 0.17 | 20,42,92,96 | 0 |
| 21 | CLA | A | 1103 | 65/65 | 0.94 | 0.20 | 25,41,61,66 | 0 |
| 24 | BCR | A | 4007 | 40/40 | 0.94 | 0.19 | 31,46,106,108 | 0 |
| 24 | BCR | A | 4008 | 40/40 | 0.94 | 0.25 | 17,46,78,82 | 0 |
| 21 | CLA | A | 1011 | 65/65 | 0.94 | 0.15 | 20,37,61,79 | 0 |
| 21 | CLA | a | 1013 | 65/65 | 0.94 | 0.25 | 34,53,90,92 | 0 |
| 21 | CLA | A | 1135 | 65/65 | 0.94 | 0.17 | 25,42,100,107 | 0 |
| 21 | CLA | l | 1503 | 65/65 | 0.94 | 0.20 | 31,54,99,101 | 0 |
| 21 | CLA | a | 1103 | 65/65 | 0.94 | 0.26 | 49,67,130,133 | 0 |
| 21 | CLA | a | 1104 | 65/65 | 0.94 | 0.23 | 40,68,105,111 | 0 |
| 21 | CLA | a | 1130 | 65/65 | 0.94 | 0.15 | 52,68,111,119 | 0 |
| 21 | CLA | B | 1223 | 65/65 | 0.94 | 0.27 | 54,67,78,95 | 0 |
| 24 | BCR | I | 4018 | 40/40 | 0.94 | 0.21 | 24,45,59,67 | 0 |
| 21 | CLA | B | 1207 | 65/65 | 0.94 | 0.17 | 28,39,61,68 | 0 |
| 21 | CLA | 2 | 1239 | 65/65 | 0.94 | 0.18 | 39,57,93,104 | 0 |
| 21 | CLA | A | 1138 | 65/65 | 0.94 | 0.16 | 46,61,68,73 | 0 |
| 21 | CLA | A | 1116 | 65/65 | 0.94 | 0.26 | 36,53,86,90 | 0 |
| 21 | CLA | 1 | 1132 | 65/65 | 0.94 | 0.14 | 23,48,63,71 | 0 |
| 21 | CLA | b | 1202 | 65/65 | 0.94 | 0.16 | 26,43,52,57 | 0 |
| 21 | CLA | B | 1215 | 65/65 | 0.94 | 0.26 | 33,57,92,99 | 0 |
| 21 | CLA | A | 1801 | 65/65 | 0.94 | 0.14 | 22,47,108,110 | 0 |
| 21 | CLA | A | 1118 | 65/65 | 0.94 | 0.19 | 38,52,84,89 | 0 |
| 21 | CLA | b | 1238 | 65/65 | 0.94 | 0.17 | 30,52,63,69 | 0 |
| 21 | CLA | 0 | 1502 | 65/65 | 0.94 | 0.16 | 32,49,77,84 | 0 |
| 36 | EQ3 | I | 4020 | 42/42 | 0.94 | 0.22 | 24,37,48,66 | 0 |
| 21 | CLA | 0 | 1503 | 65/65 | 0.94 | 0.15 | 43,56,82,99 | 0 |
| 24 | BCR | L | 4019 | 40/40 | 0.95 | 0.17 | 24,38,45,52 | 0 |
| 21 | CLA | A | 1124 | 65/65 | 0.95 | 0.19 | 23,35,118,122 | 0 |
| 21 | CLA | b | 1225 | 65/65 | 0.95 | 0.21 | 23,41,59,63 | 0 |
| 25 | LHG | A | 5001 | 49/49 | 0.95 | 0.18 | 31,47,61,64 | 0 |

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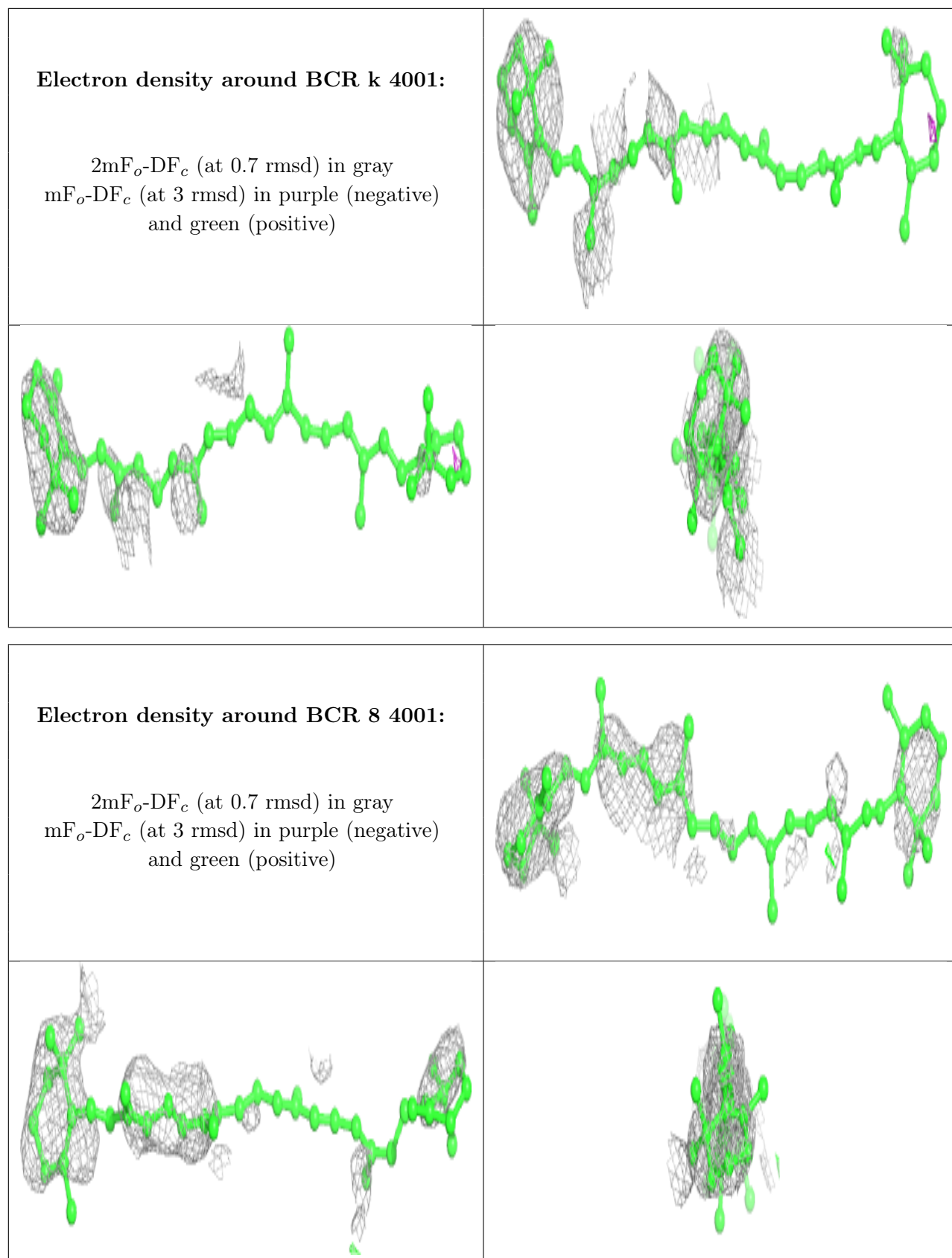
| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 21 | CLA | a | 1140 | 65/65 | 0.95 | 0.21 | 48,70,93,95 | 0 |
| 21 | CLA | A | 1106 | 65/65 | 0.95 | 0.14 | 26,45,71,87 | 0 |
| 21 | CLA | A | 1111 | 65/65 | 0.95 | 0.17 | 31,48,81,86 | 0 |
| 21 | CLA | L | 1501 | 65/65 | 0.95 | 0.18 | 33,51,91,94 | 0 |
| 21 | CLA | L | 1502 | 65/65 | 0.95 | 0.20 | 21,36,98,103 | 0 |
| 21 | CLA | b | 1022 | 65/65 | 0.95 | 0.21 | 37,49,59,65 | 0 |
| 21 | CLA | A | 1102 | 65/65 | 0.95 | 0.14 | 32,49,106,120 | 0 |
| 21 | CLA | 0 | 1501 | 65/65 | 0.95 | 0.18 | 37,47,74,82 | 0 |
| 21 | CLA | A | 1117 | 65/65 | 0.95 | 0.29 | 31,46,56,59 | 0 |
| 21 | CLA | b | 1023 | 65/65 | 0.95 | 0.23 | 34,51,66,80 | 0 |
| 22 | PQN | A | 2001 | 33/33 | 0.95 | 0.18 | 30,46,57,64 | 0 |
| 21 | CLA | B | 1229 | 65/65 | 0.95 | 0.19 | 40,60,80,85 | 0 |
| 21 | CLA | b | 1239 | 65/65 | 0.95 | 0.23 | 36,51,62,84 | 0 |
| 21 | CLA | b | 1204 | 65/65 | 0.95 | 0.15 | 26,40,78,108 | 0 |
| 21 | CLA | A | 1140 | 65/65 | 0.95 | 0.18 | 25,43,66,76 | 0 |
| 21 | CLA | b | 1201 | 65/65 | 0.95 | 0.15 | 30,44,81,84 | 0 |
| 21 | CLA | b | 1207 | 65/65 | 0.95 | 0.16 | 32,50,71,81 | 0 |
| 21 | CLA | A | 1130 | 60/65 | 0.95 | 0.17 | 21,39,93,95 | 0 |
| 21 | CLA | A | 1013 | 65/65 | 0.95 | 0.21 | 23,47,57,65 | 0 |
| 21 | CLA | A | 1012 | 65/65 | 0.95 | 0.17 | 31,44,63,73 | 0 |
| 21 | CLA | B | 1237 | 65/65 | 0.95 | 0.21 | 21,34,54,61 | 0 |
| 21 | CLA | 1 | 1131 | 65/65 | 0.95 | 0.17 | 35,47,69,74 | 0 |
| 21 | CLA | B | 1238 | 65/65 | 0.95 | 0.19 | 17,35,46,56 | 0 |
| 21 | CLA | B | 1021 | 65/65 | 0.95 | 0.14 | 30,42,53,61 | 0 |
| 21 | CLA | l | 1502 | 65/65 | 0.95 | 0.19 | 30,55,103,110 | 0 |
| 33 | MG | b | 6002 | 1/1 | 0.95 | 0.12 | 54,54,54,54 | 0 |
| 21 | CLA | B | 1201 | 65/65 | 0.95 | 0.14 | 37,48,80,91 | 0 |
| 21 | CLA | 1 | 1136 | 65/65 | 0.95 | 0.13 | 46,66,77,83 | 0 |
| 21 | CLA | b | 1215 | 65/65 | 0.95 | 0.17 | 28,48,68,83 | 0 |
| 21 | CLA | A | 1131 | 65/65 | 0.95 | 0.21 | 27,38,59,76 | 0 |
| 21 | CLA | b | 1217 | 51/65 | 0.95 | 0.11 | 32,56,86,95 | 0 |
| 21 | CLA | B | 1203 | 65/65 | 0.95 | 0.21 | 33,50,69,75 | 0 |
| 21 | CLA | 1 | 1130 | 55/65 | 0.95 | 0.14 | 29,53,83,95 | 0 |
| 21 | CLA | B | 1204 | 65/65 | 0.95 | 0.16 | 32,50,67,83 | 0 |
| 21 | CLA | B | 1205 | 65/65 | 0.95 | 0.15 | 34,43,69,74 | 0 |
| 21 | CLA | b | 1221 | 65/65 | 0.95 | 0.15 | 31,50,85,99 | 0 |
| 21 | CLA | a | 1137 | 51/65 | 0.95 | 0.17 | 43,63,109,113 | 0 |
| 21 | CLA | 1 | 1129 | 50/65 | 0.96 | 0.15 | 49,63,76,78 | 0 |
| 21 | CLA | B | 1206 | 65/65 | 0.96 | 0.15 | 31,43,60,72 | 0 |
| 21 | CLA | b | 1205 | 65/65 | 0.96 | 0.13 | 28,43,59,65 | 0 |
| 21 | CLA | 2 | 1238 | 65/65 | 0.96 | 0.15 | 36,52,61,75 | 0 |
| 32 | CA | b | 6001 | 1/1 | 0.96 | 0.06 | 61,61,61,61 | 0 |

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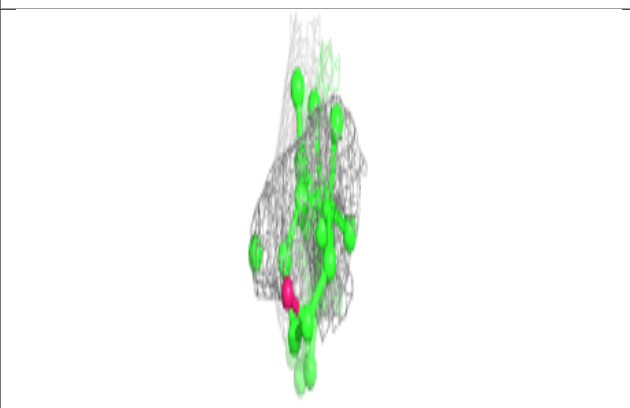
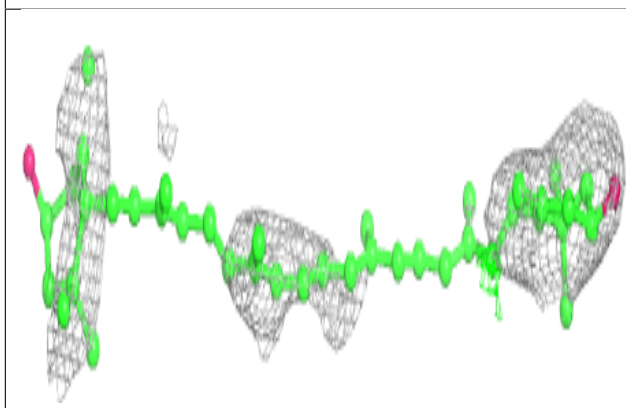
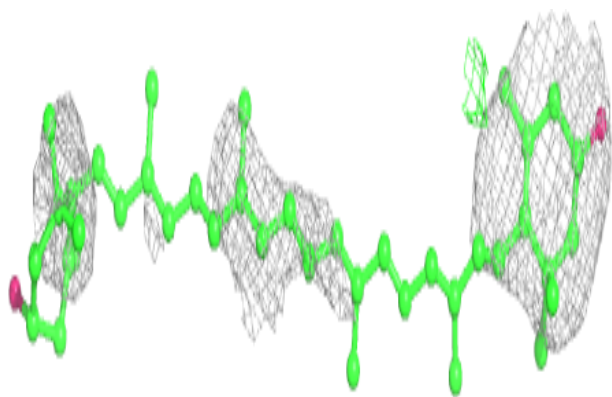
| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 32 | CA | l | 1001 | 1/1 | 0.96 | 0.04 | 55,55,55,55 | 0 |
| 21 | CLA | A | 1137 | 65/65 | 0.96 | 0.20 | 24,38,111,116 | 0 |
| 21 | CLA | B | 1023 | 65/65 | 0.96 | 0.22 | 21,33,45,55 | 0 |
| 21 | CLA | a | 1131 | 65/65 | 0.96 | 0.17 | 36,58,68,71 | 0 |
| 21 | CLA | b | 1223 | 65/65 | 0.96 | 0.18 | 33,55,83,86 | 0 |
| 21 | CLA | A | 1101 | 65/65 | 0.96 | 0.15 | 32,50,68,74 | 0 |
| 21 | CLA | a | 1132 | 65/65 | 0.96 | 0.14 | 37,57,66,71 | 0 |
| 21 | CLA | 2 | 1207 | 56/65 | 0.96 | 0.14 | 29,46,78,86 | 0 |
| 21 | CLA | a | 1012 | 65/65 | 0.96 | 0.22 | 25,57,101,103 | 0 |
| 21 | CLA | A | 1132 | 65/65 | 0.96 | 0.15 | 21,35,44,51 | 0 |
| 21 | CLA | B | 1239 | 65/65 | 0.96 | 0.24 | 11,39,59,85 | 0 |
| 21 | CLA | A | 1110 | 65/65 | 0.96 | 0.22 | 30,47,124,127 | 0 |
| 21 | CLA | B | 1022 | 65/65 | 0.96 | 0.19 | 19,36,44,51 | 0 |
| 21 | CLA | A | 1136 | 65/65 | 0.96 | 0.13 | 21,42,68,77 | 0 |
| 21 | CLA | b | 1203 | 65/65 | 0.96 | 0.19 | 25,45,60,64 | 0 |
| 29 | CL | b | 6000 | 1/1 | 0.97 | 0.11 | 53,53,53,53 | 0 |
| 22 | PQN | B | 2002 | 33/33 | 0.97 | 0.17 | 24,35,39,48 | 0 |
| 32 | CA | L | 1001 | 1/1 | 0.98 | 0.08 | 44,44,44,44 | 0 |
| 23 | SF4 | c | 3002 | 8/8 | 0.98 | 0.11 | 53,57,64,76 | 0 |
| 23 | SF4 | c | 3003 | 8/8 | 0.98 | 0.09 | 57,78,82,85 | 0 |
| 23 | SF4 | 3 | 3003 | 8/8 | 0.98 | 0.07 | 75,88,175,321 | 0 |
| 32 | CA | 0 | 1001 | 1/1 | 0.98 | 0.04 | 56,56,56,56 | 0 |
| 32 | CA | B | 6001 | 1/1 | 0.98 | 0.10 | 80,80,80,80 | 0 |
| 29 | CL | B | 6000 | 1/1 | 0.99 | 0.04 | 36,36,36,36 | 0 |
| 23 | SF4 | a | 3001 | 8/8 | 0.99 | 0.16 | 61,65,75,77 | 0 |

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

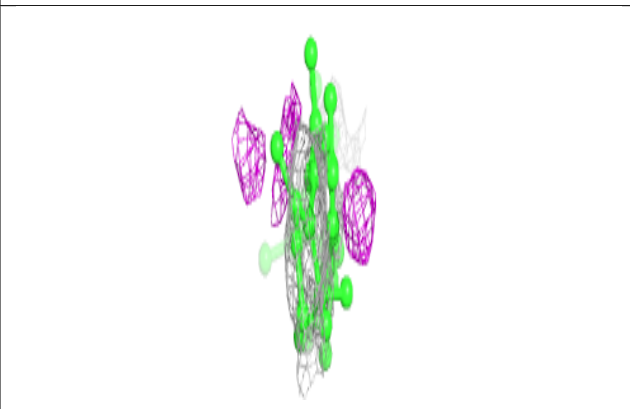
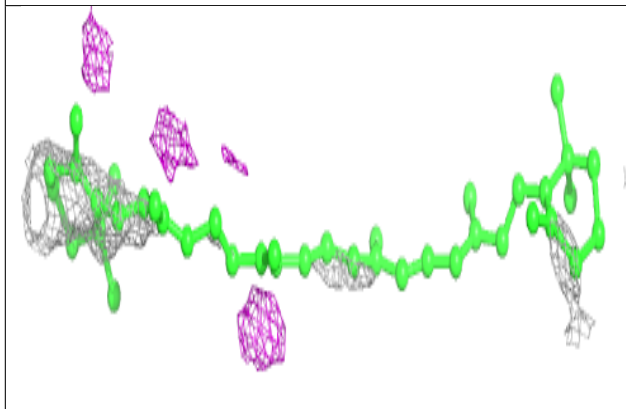
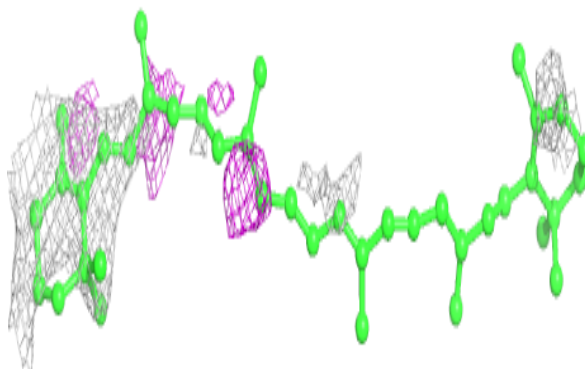


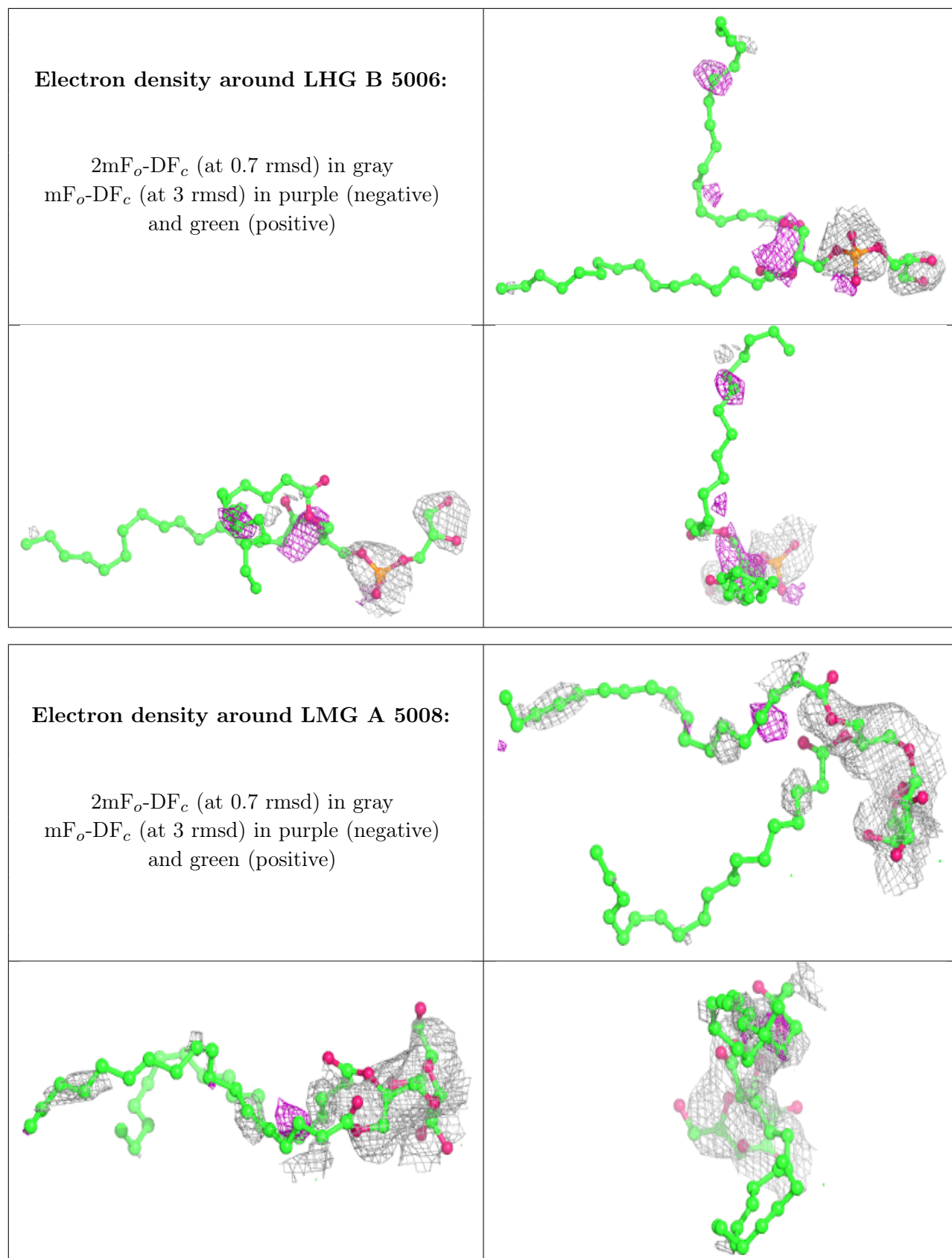
Electron density around ZEX 7 4015:

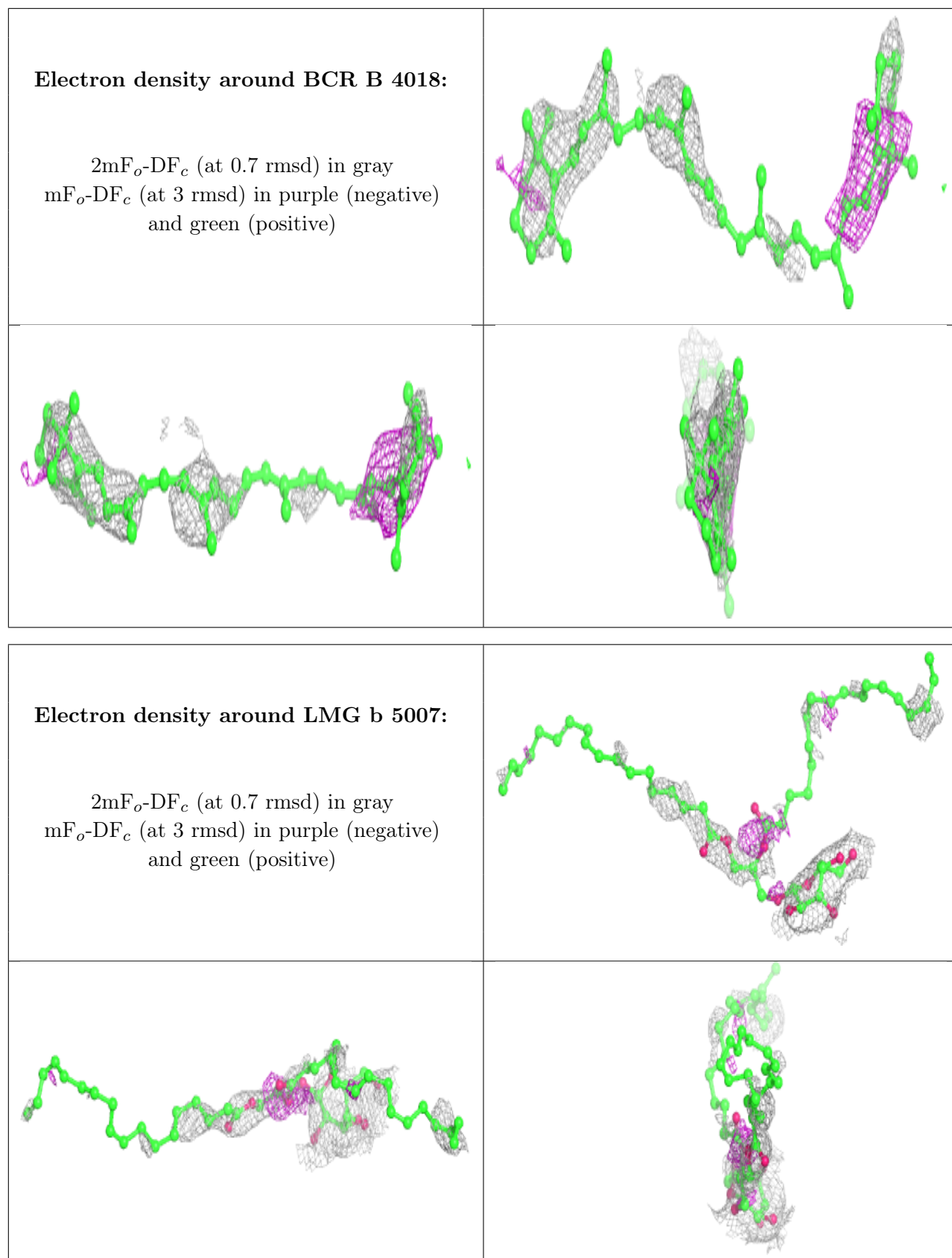
$2mF_o-DF_c$ (at 0.7 rnsd) in gray
 mF_o-DF_c (at 3 rnsd) in purple (negative)
and green (positive)

**Electron density around BCR 2 4004:**

$2mF_o-DF_c$ (at 0.7 rnsd) in gray
 mF_o-DF_c (at 3 rnsd) in purple (negative)
and green (positive)

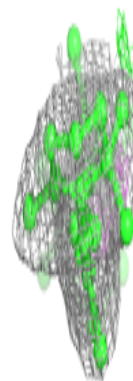
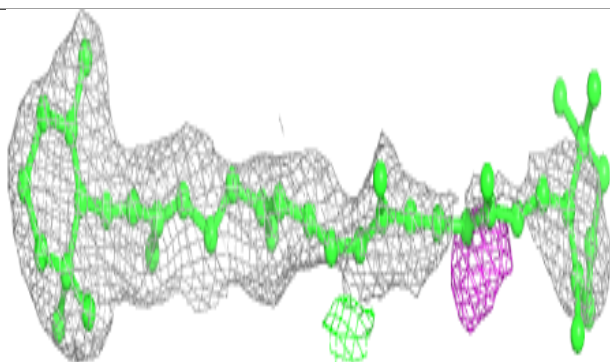
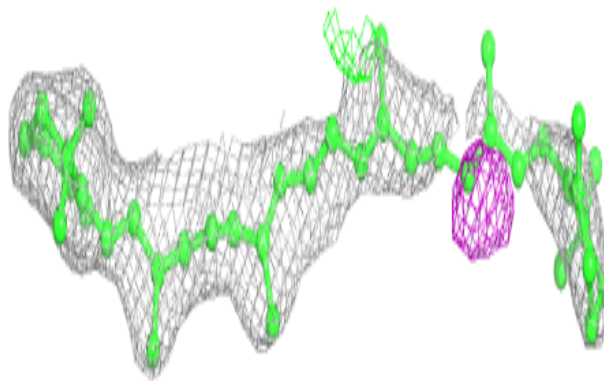




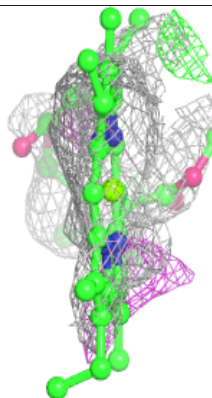
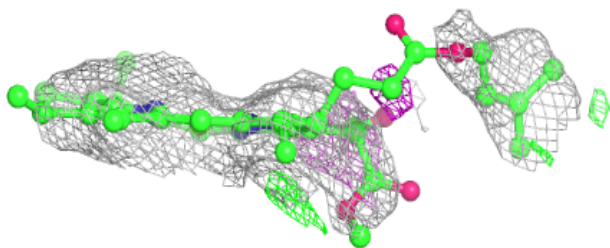
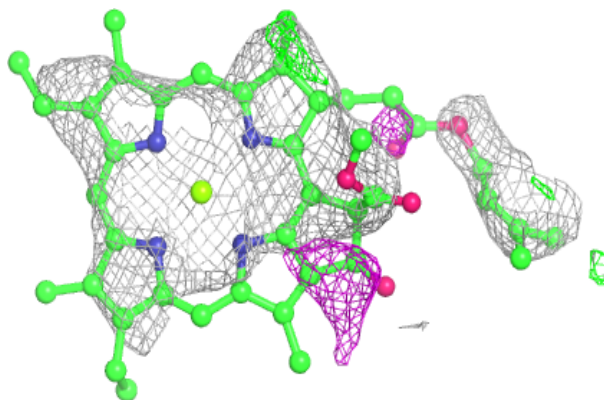


Electron density around BCR K 4001:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

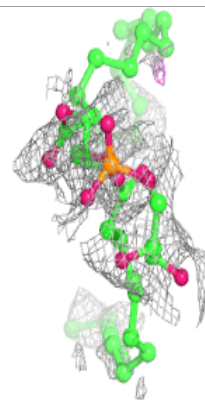
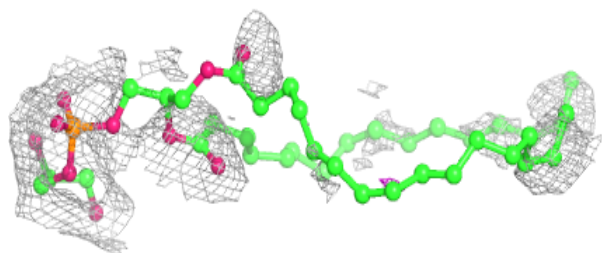
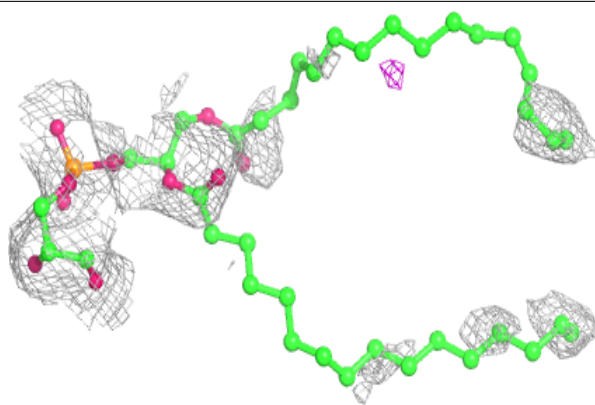
**Electron density around CLA a 1113:**

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

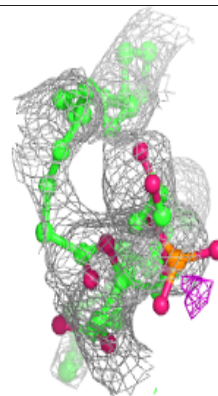
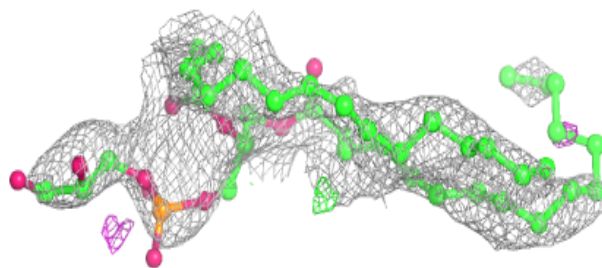
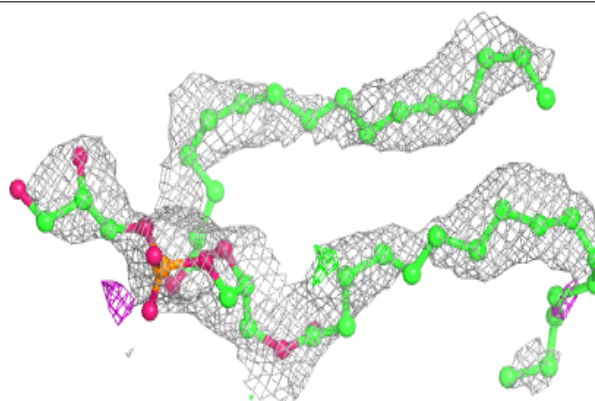


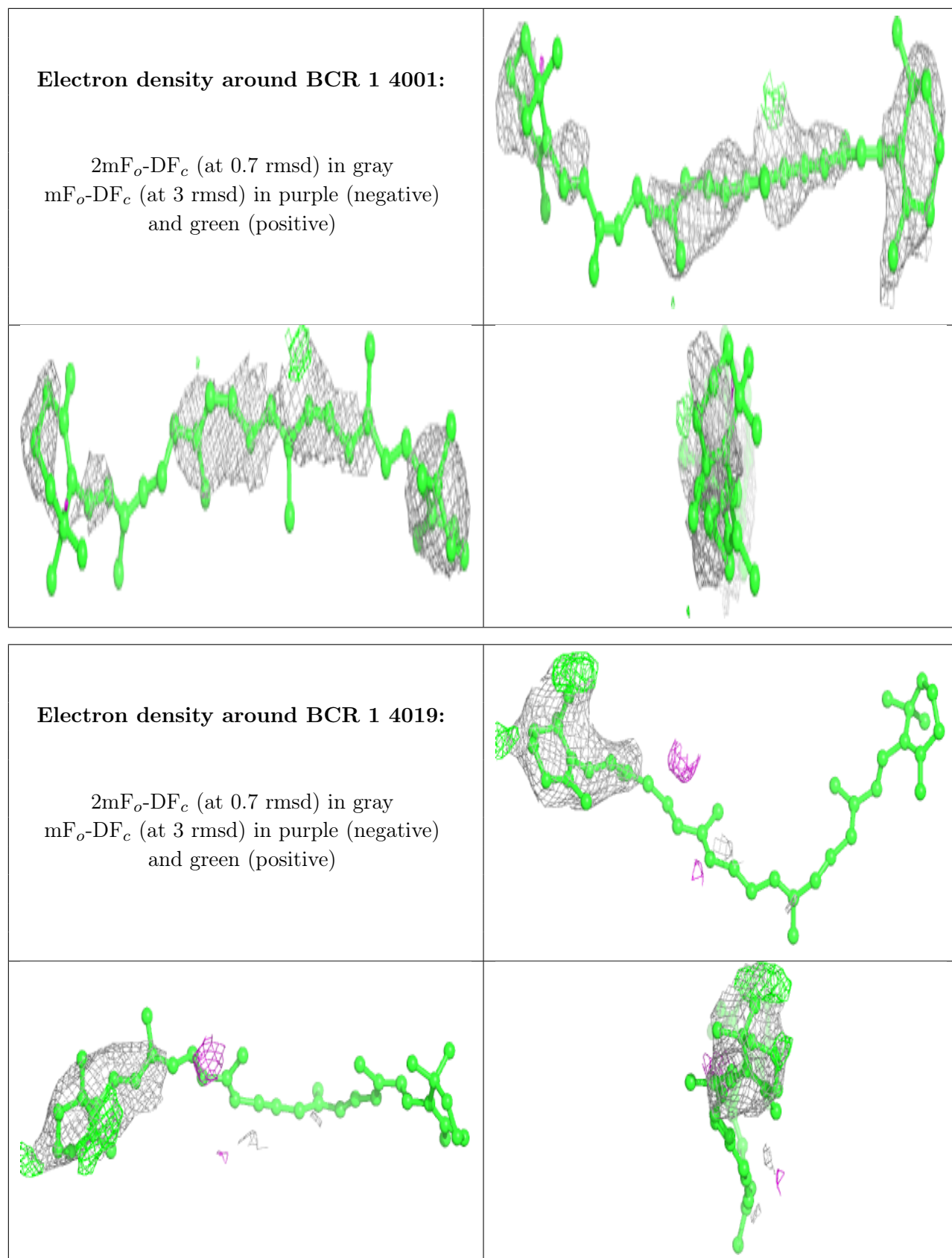
Electron density around LHG 1 5005:

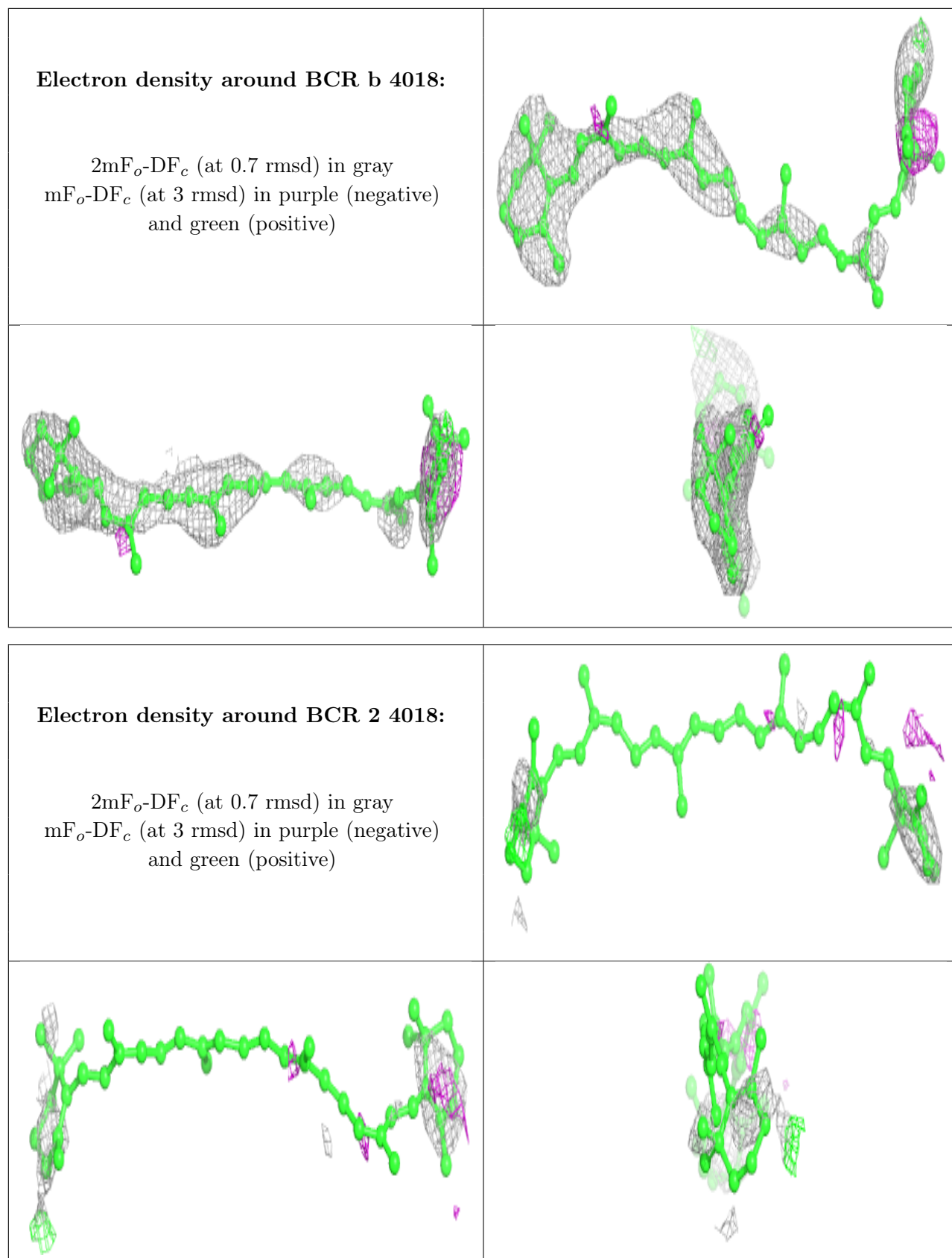
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around LHG F 5002:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

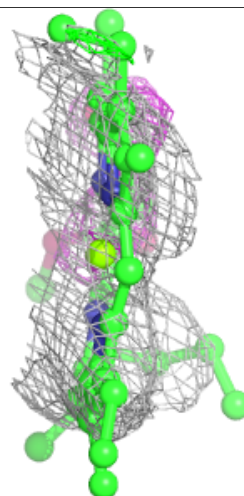
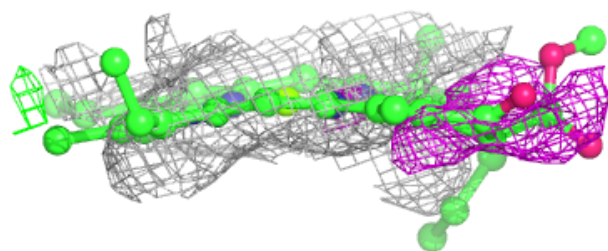
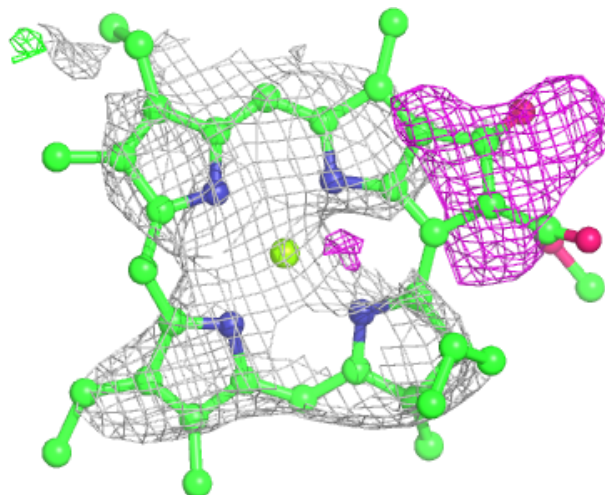






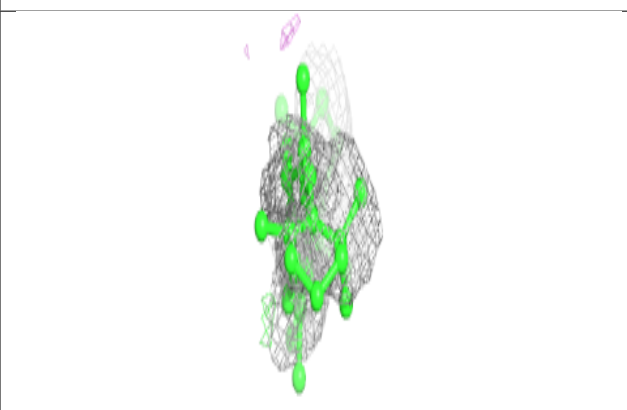
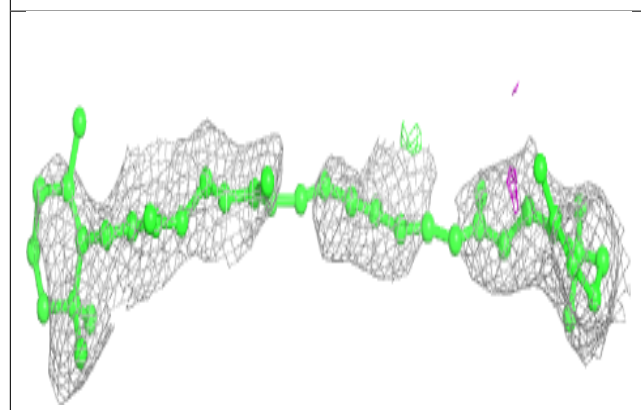
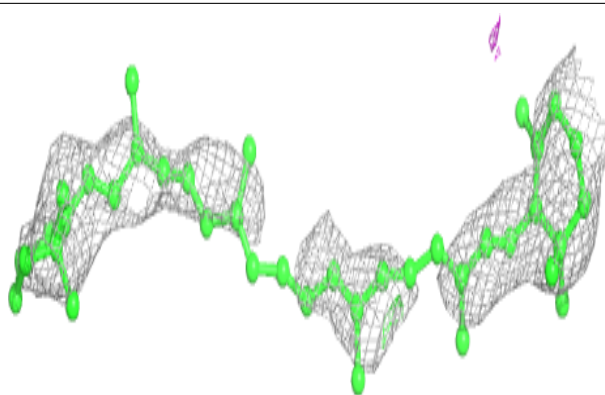
Electron density around CLA 6 1302:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

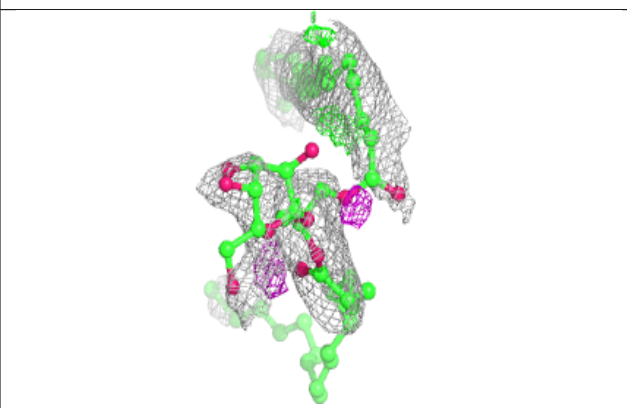
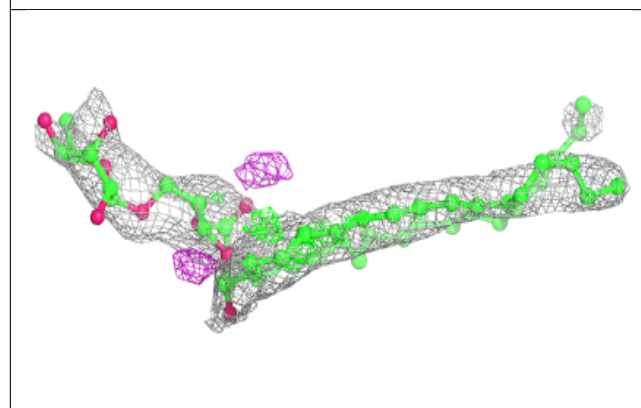
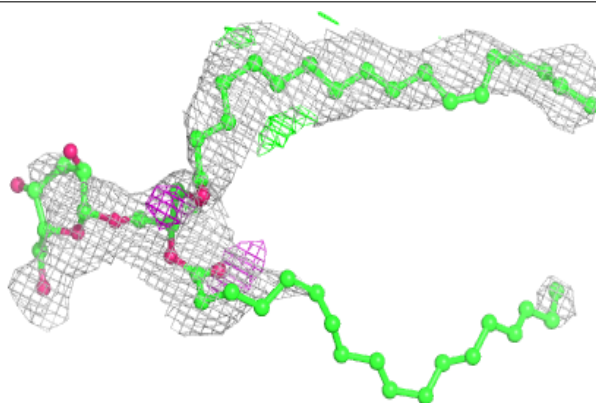


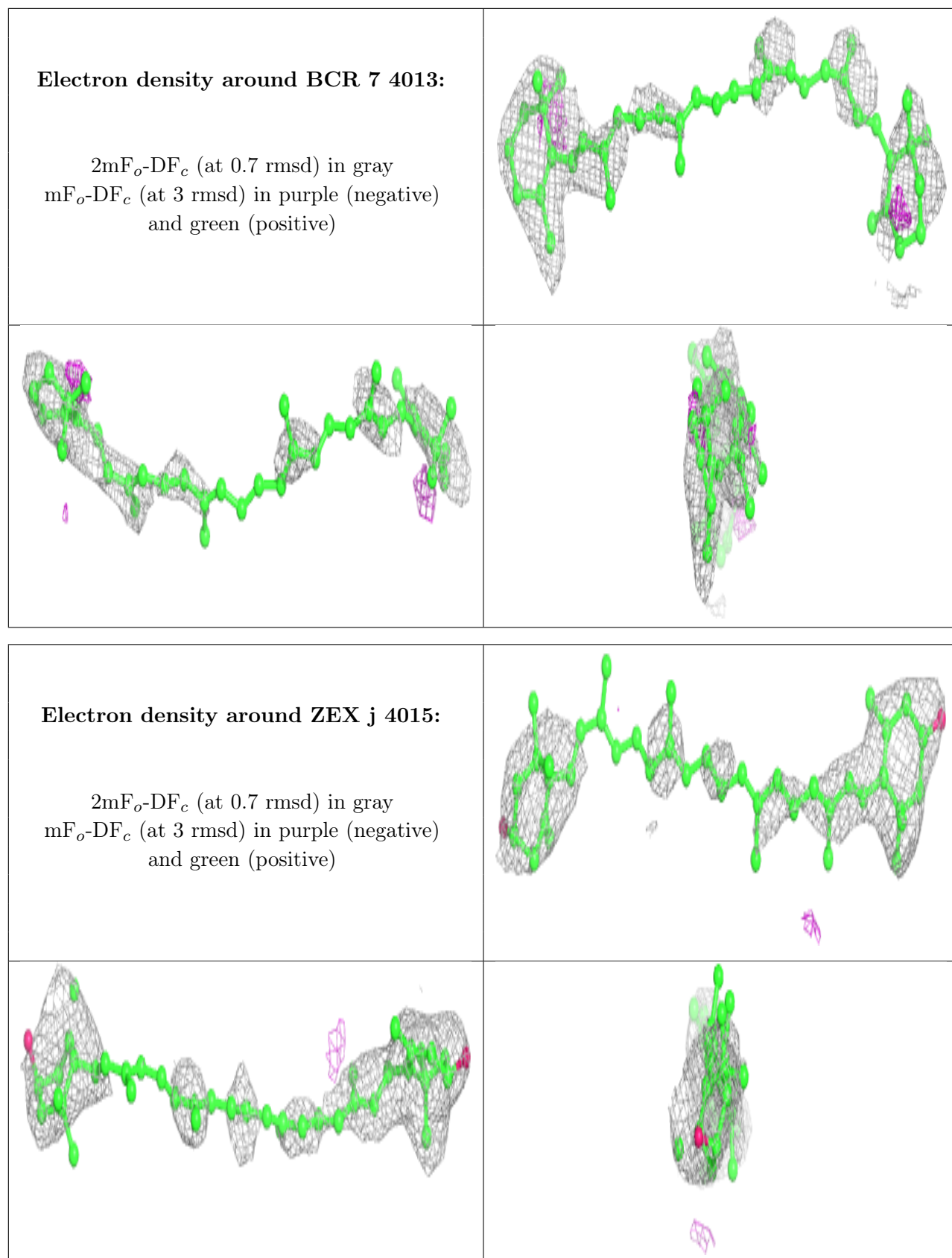
Electron density around BCR 2 4005:

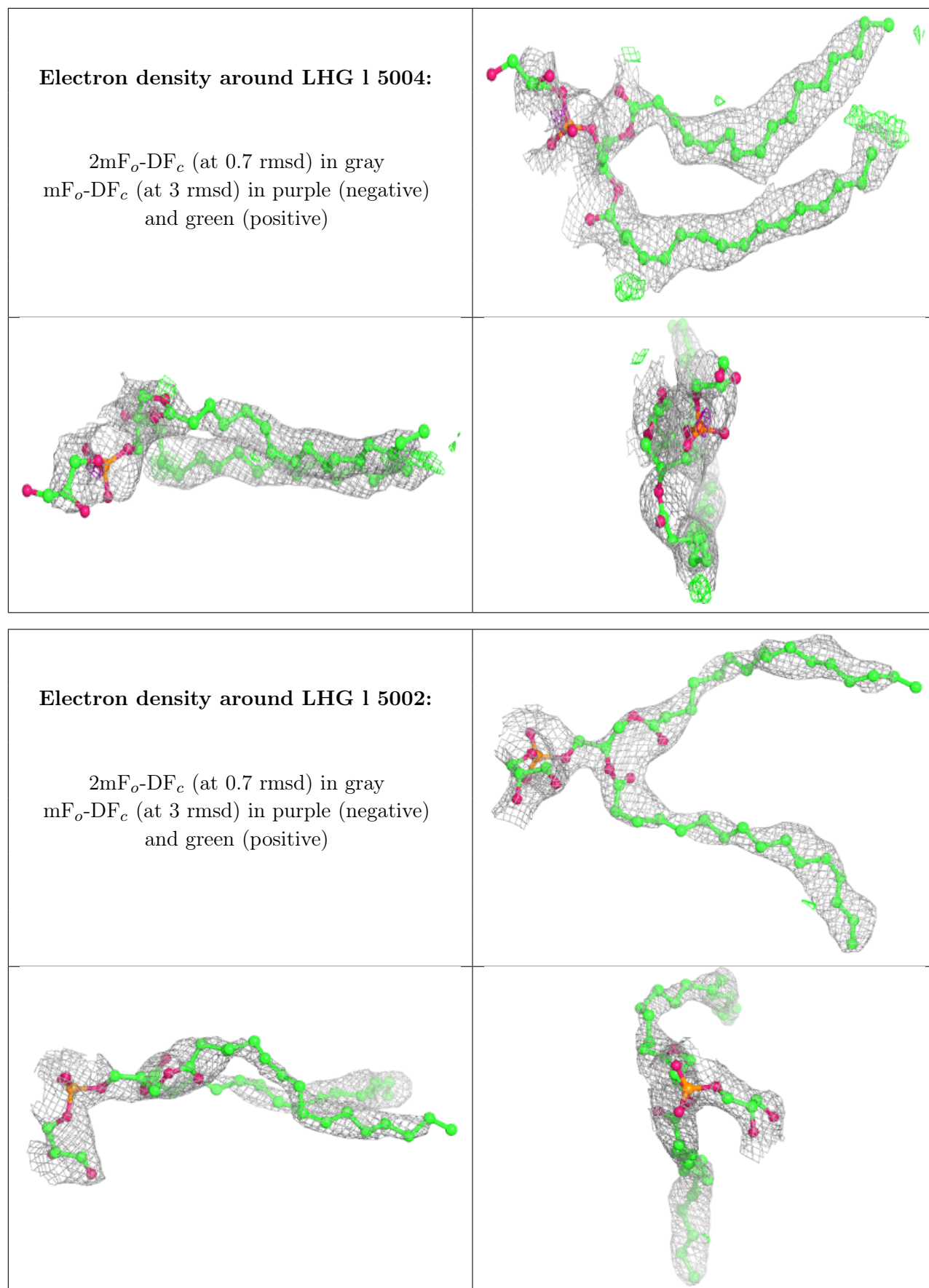
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

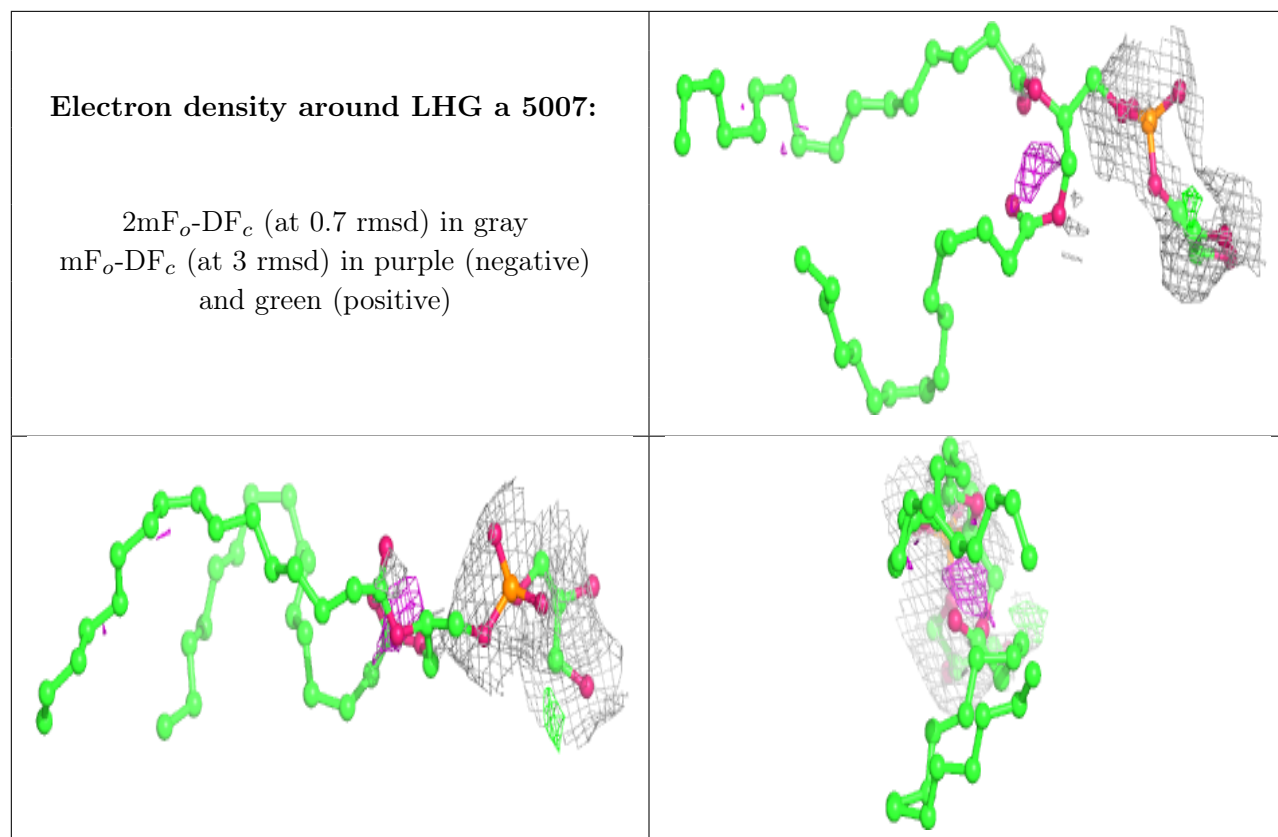
**Electron density around LMG B 5005:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



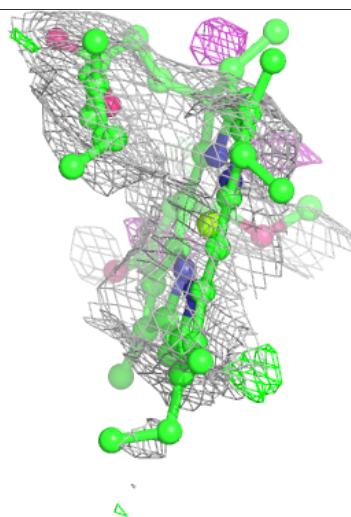
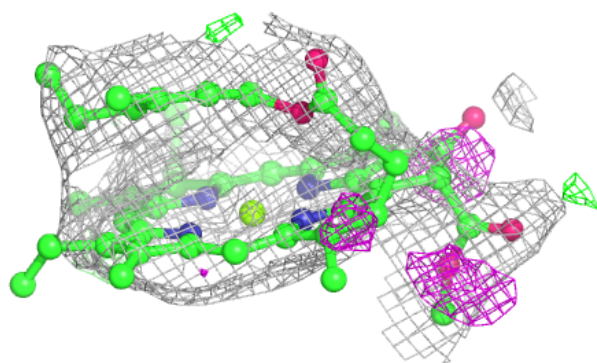
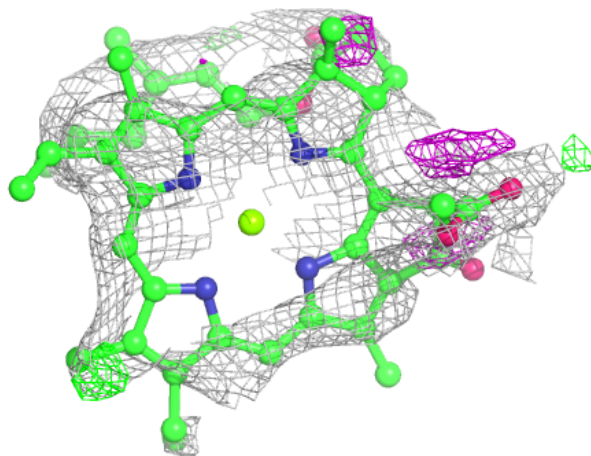






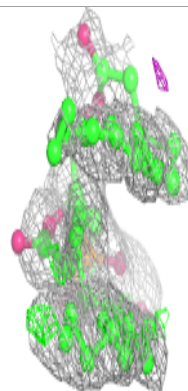
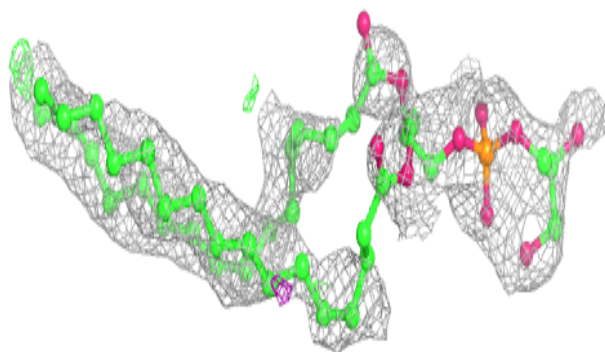
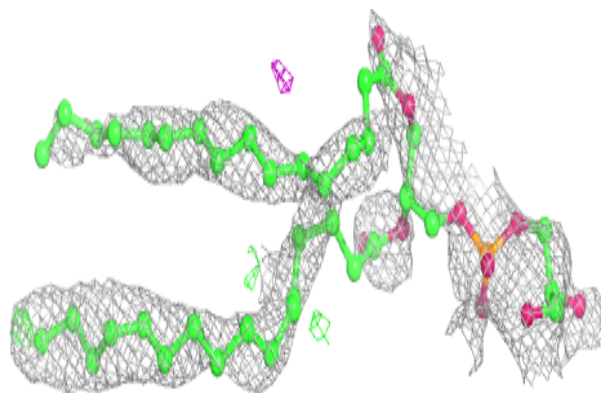
Electron density around CLA 2 1217:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

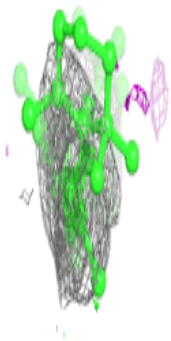
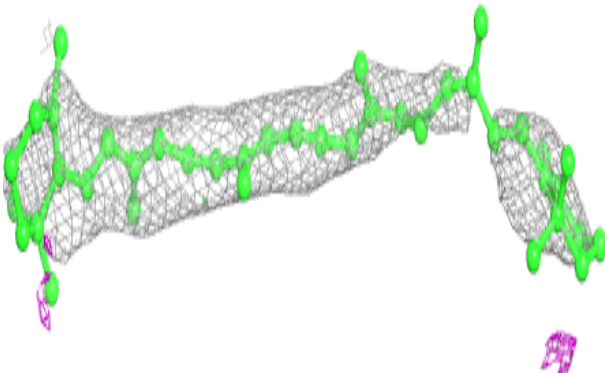
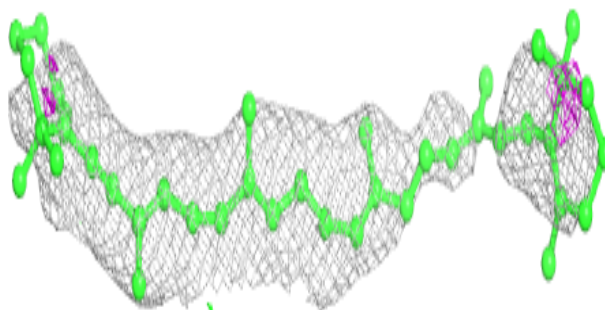


Electron density around LHG a 5005:

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

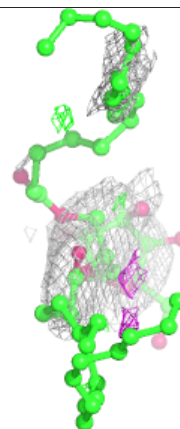
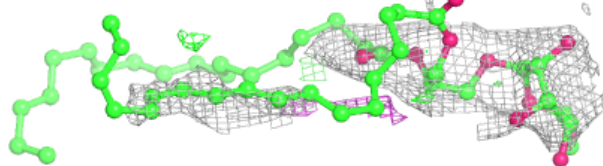
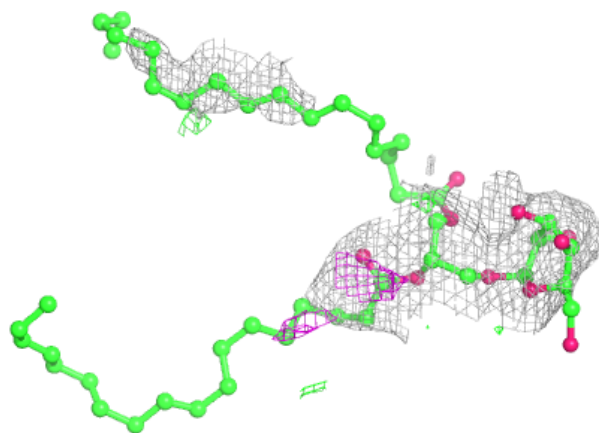
**Electron density around BCR a 4001:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

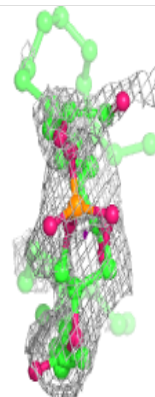
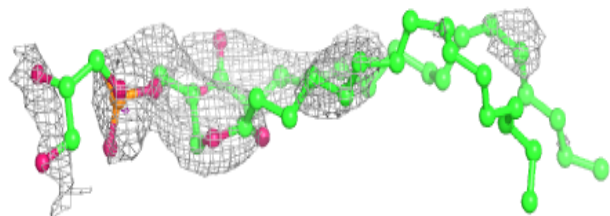
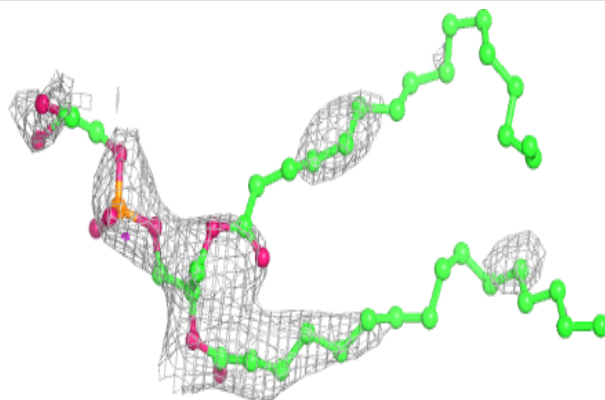


Electron density around LMG 2 5005:

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

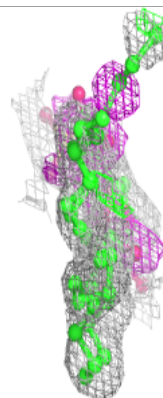
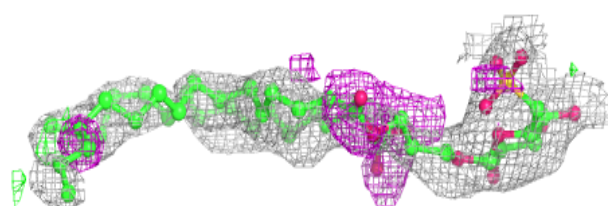
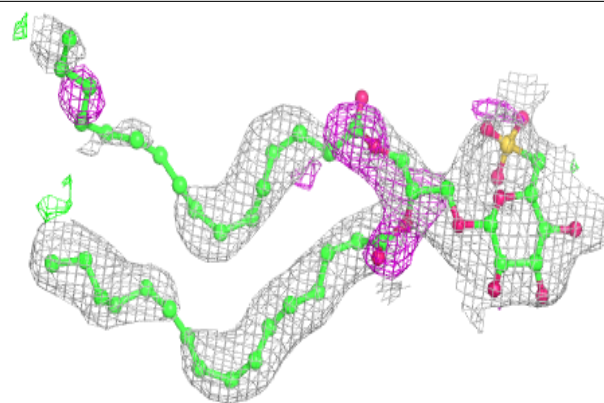
**Electron density around LHG 1 5007:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

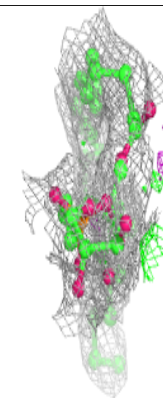
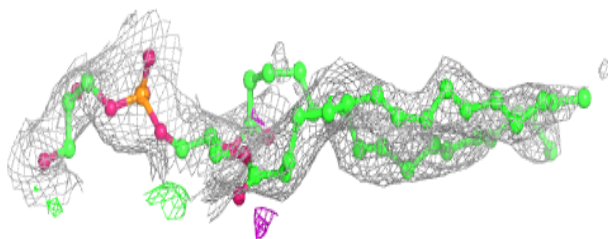
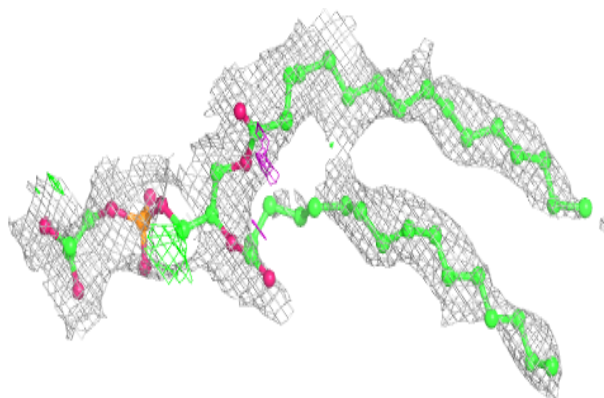


Electron density around SQD b 5006:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

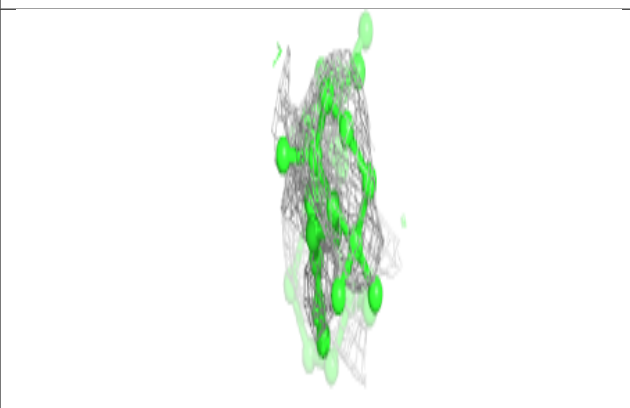
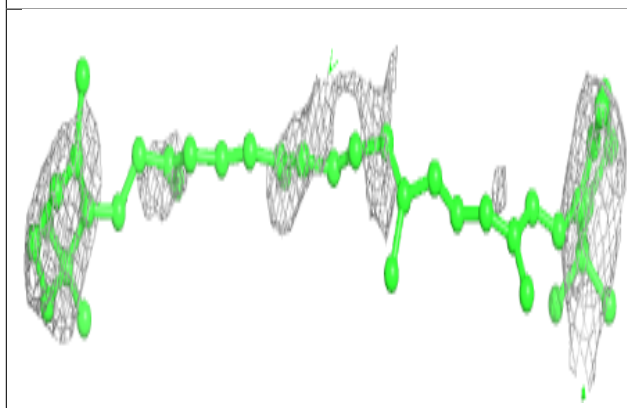
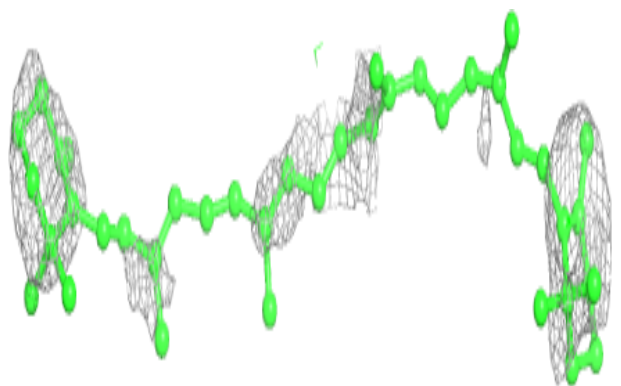
**Electron density around LHG M 5001:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

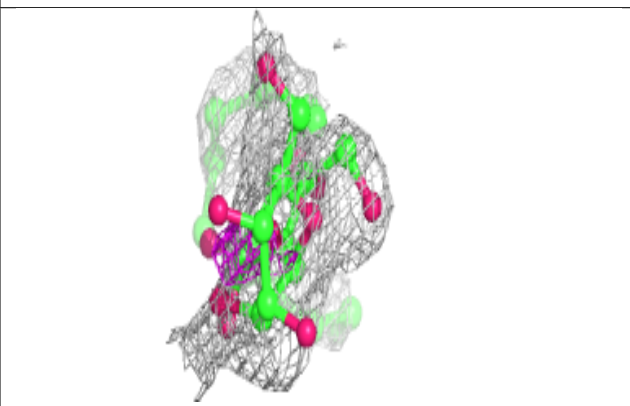
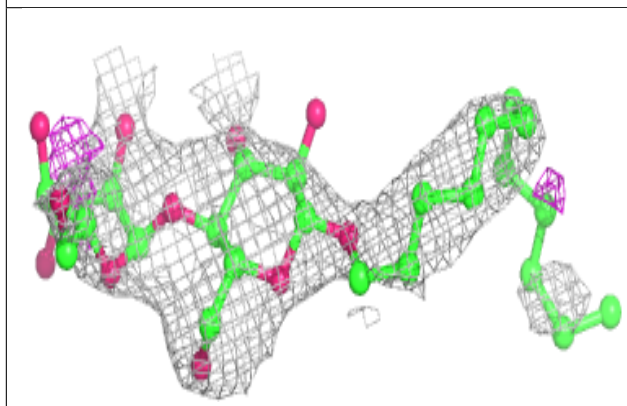
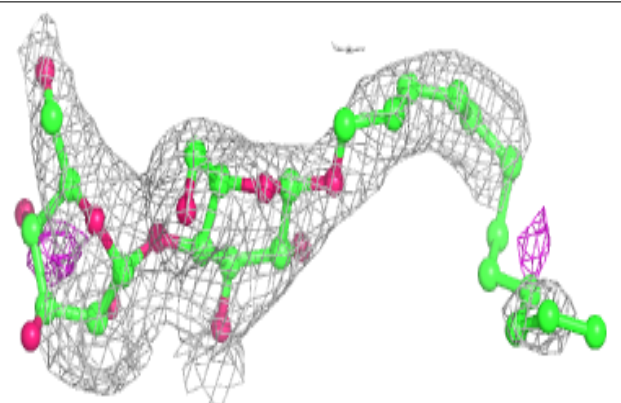


Electron density around BCR a 4003:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

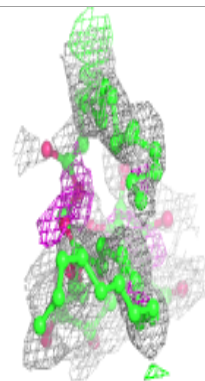
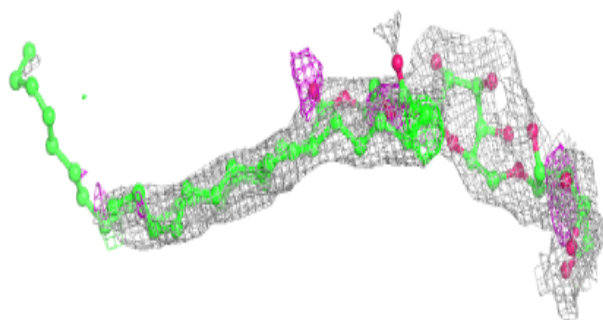
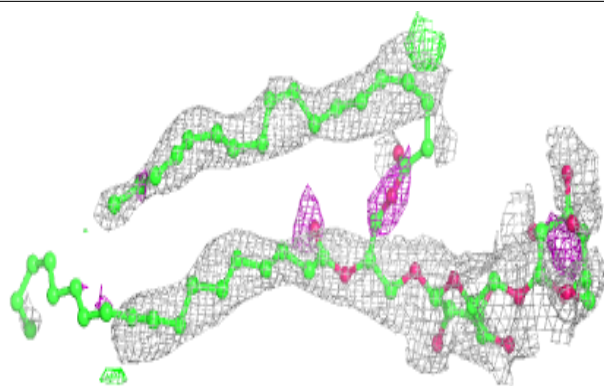
**Electron density around LMT 1 6001:**

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and green (positive)

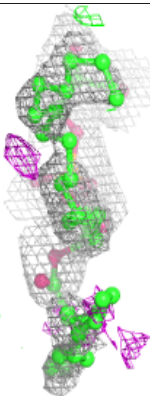
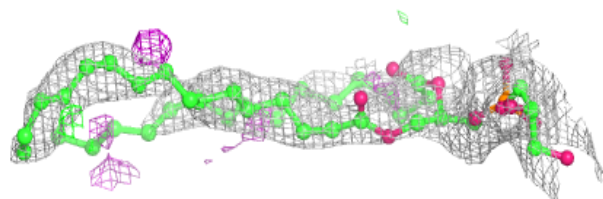
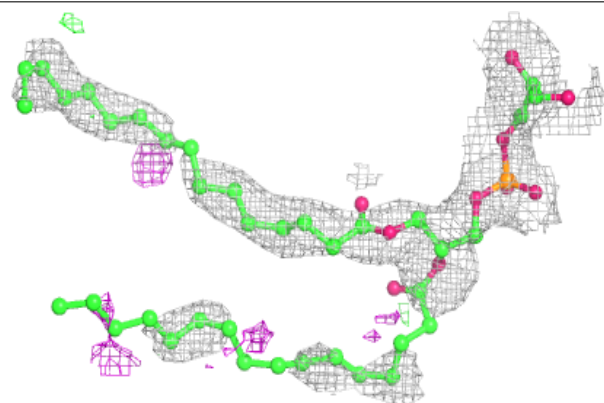


Electron density around DGD L 5004:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

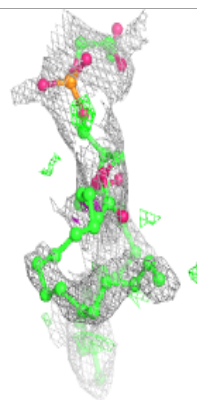
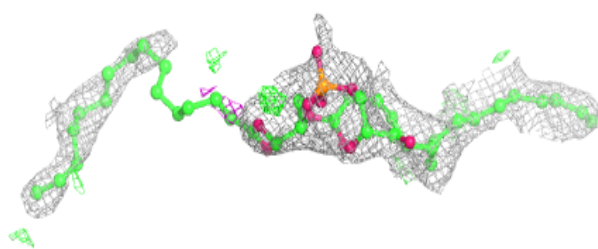
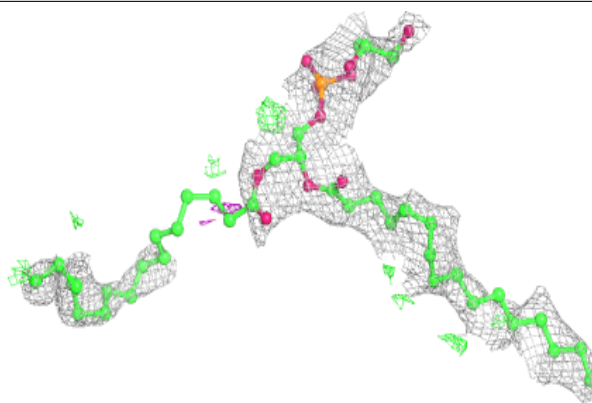
**Electron density around LHG A 5006:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

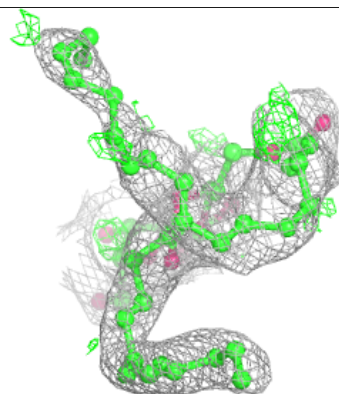
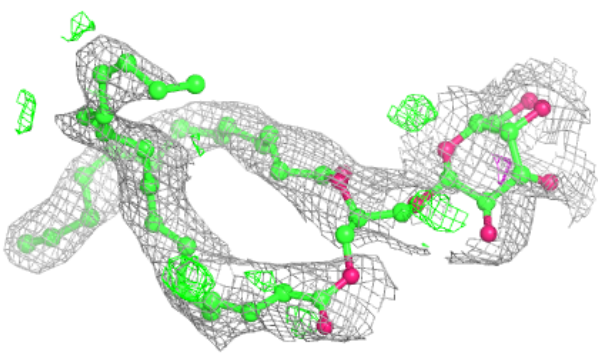
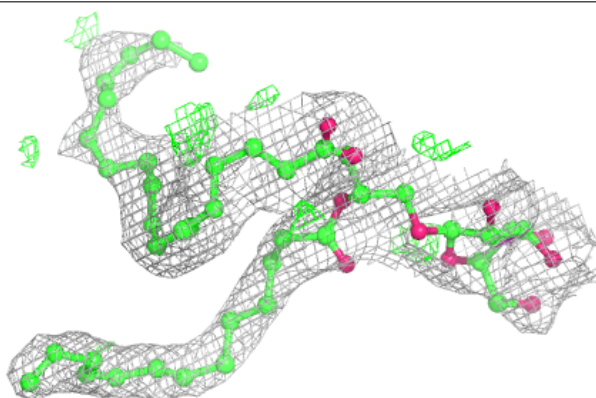


Electron density around LHG 0 5004:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

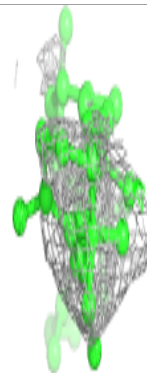
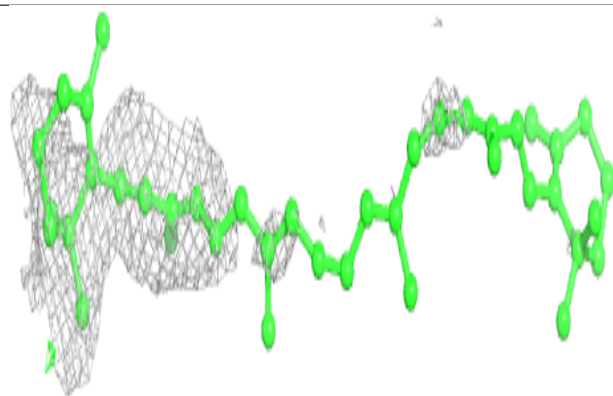
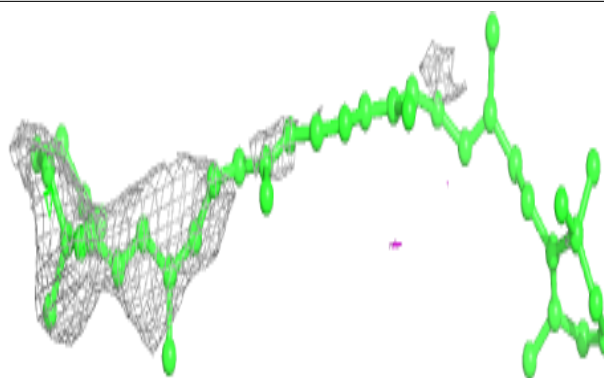
**Electron density around LMG a 5002:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

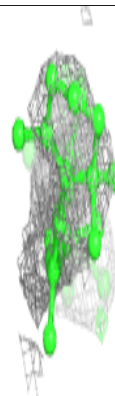
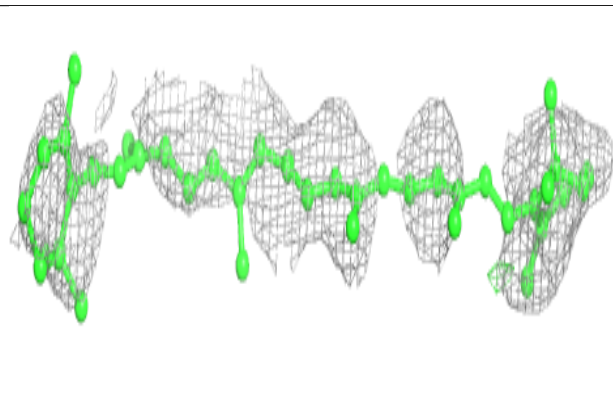
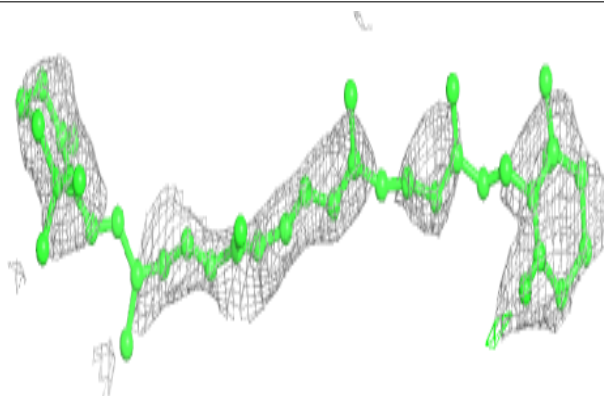


Electron density around BCR a 4019:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

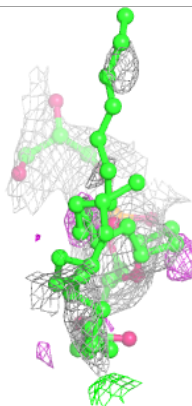
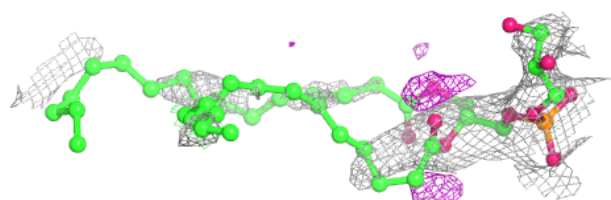
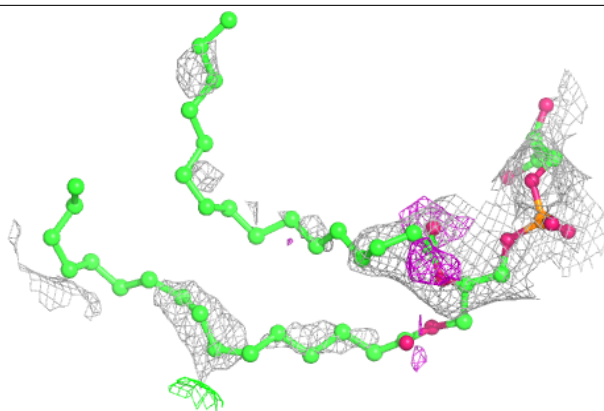
**Electron density around BCR a 4002:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

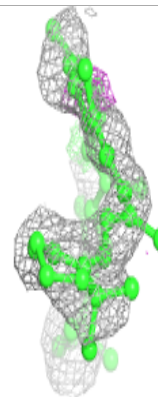
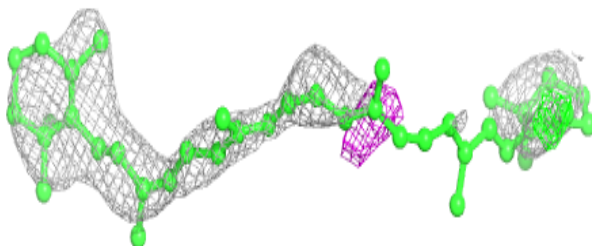
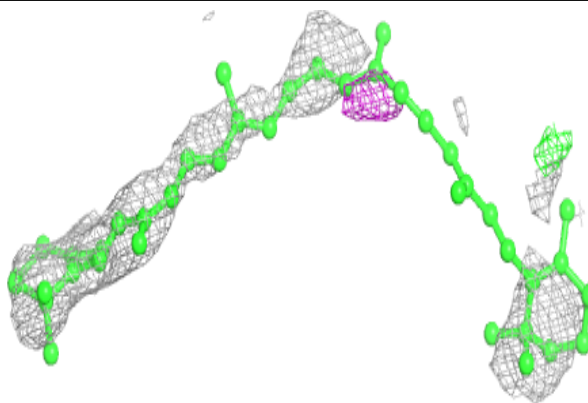


Electron density around LHG 2 5004:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

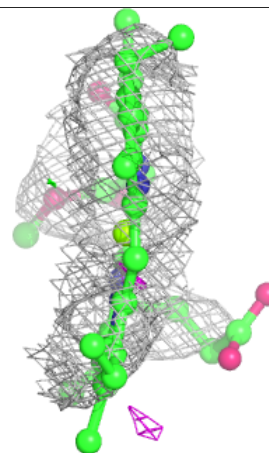
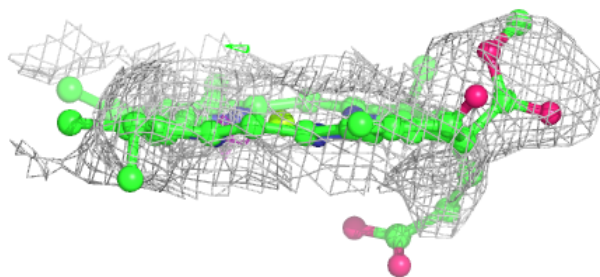
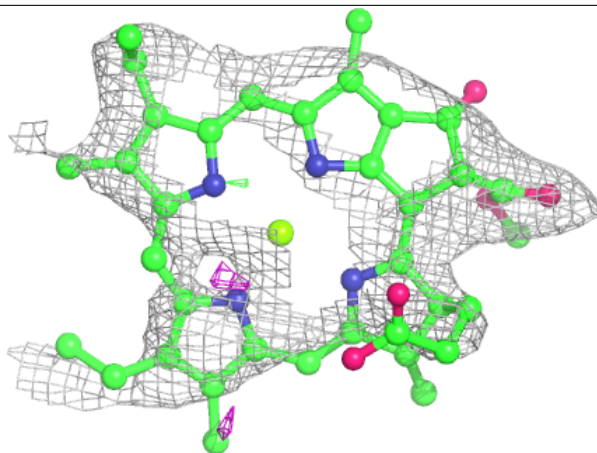
**Electron density around BCR A 4019:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

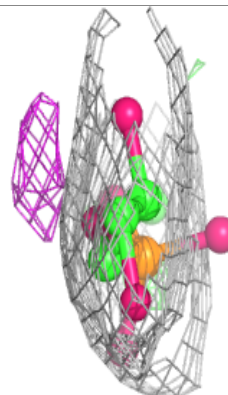
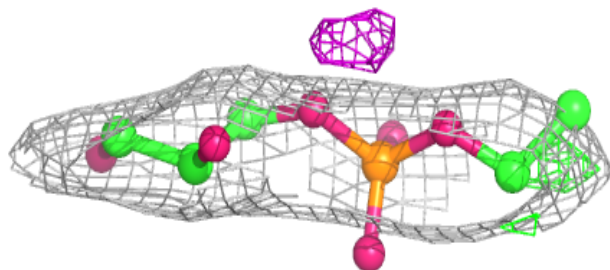
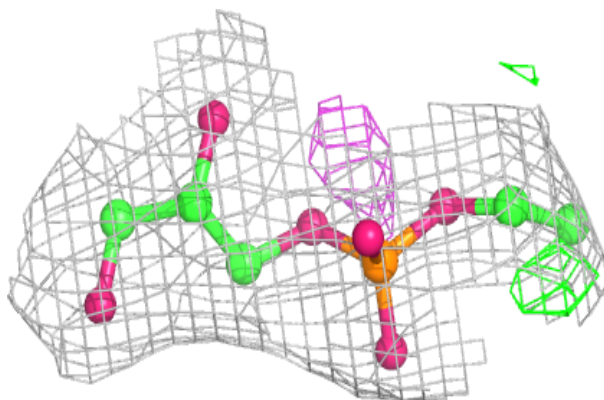


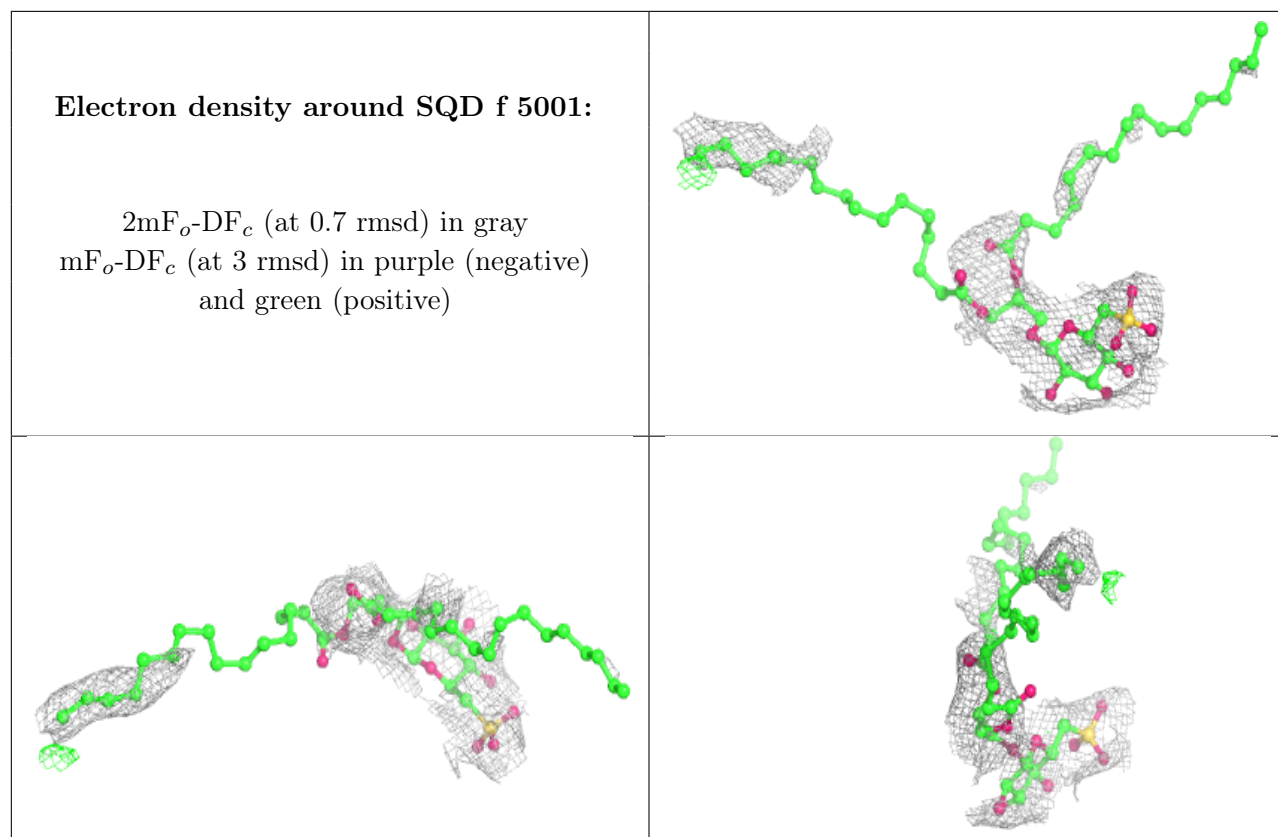
Electron density around CLA 2 1209:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around LHG 6 5001:**

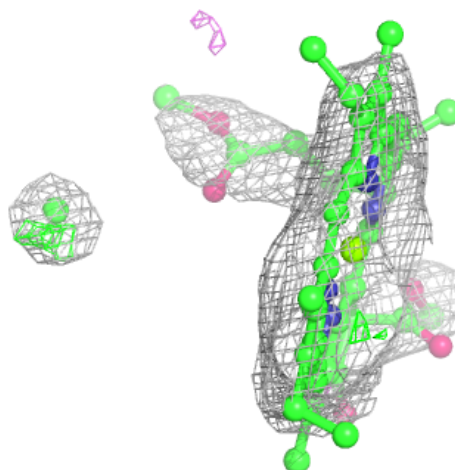
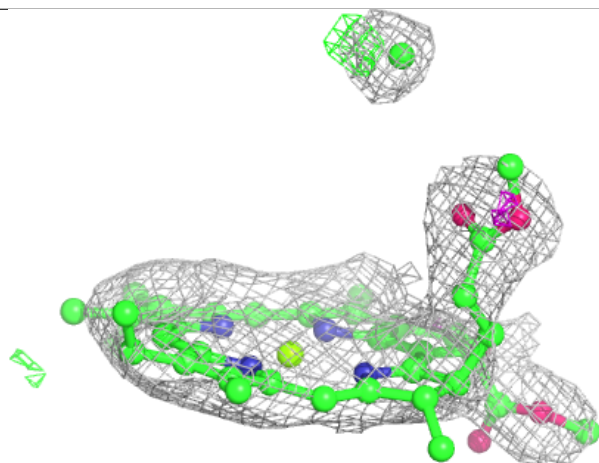
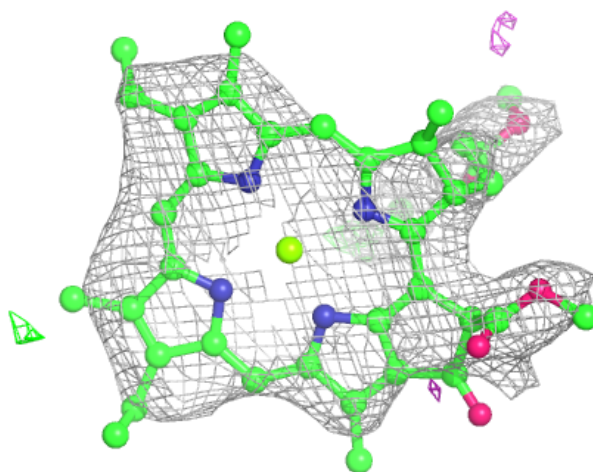
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





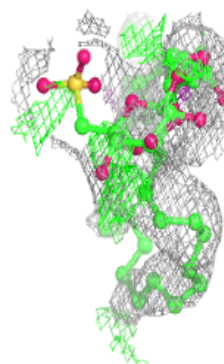
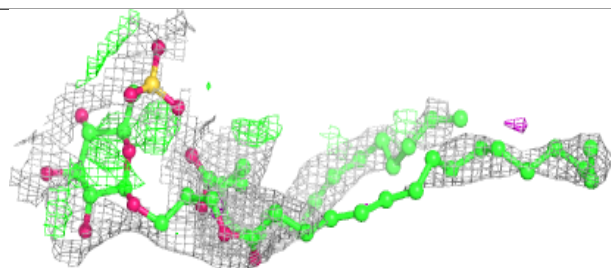
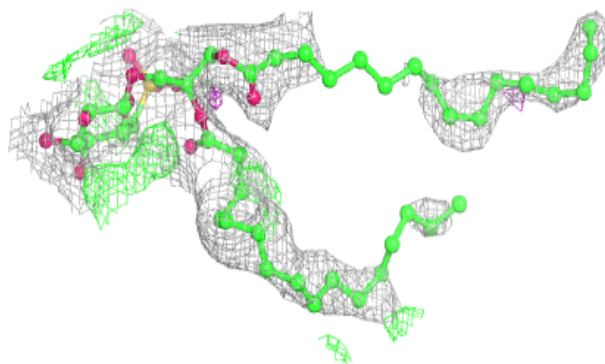
Electron density around CLA 1 1108:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

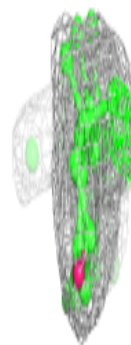
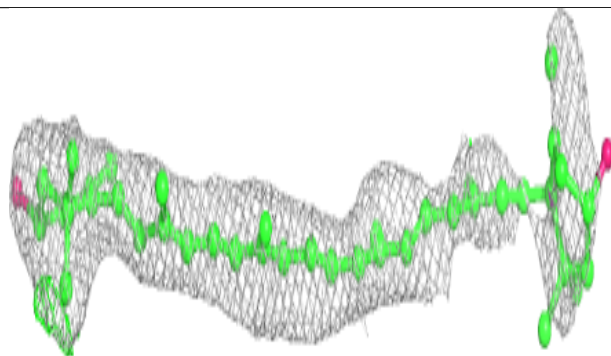
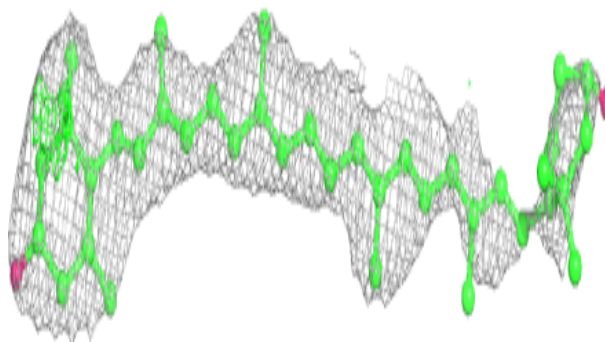


Electron density around SQD 0 5005:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

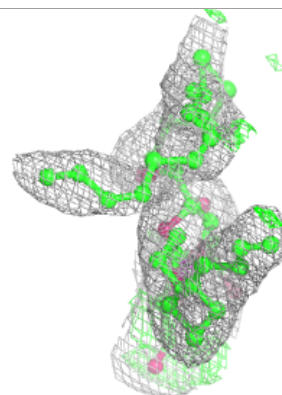
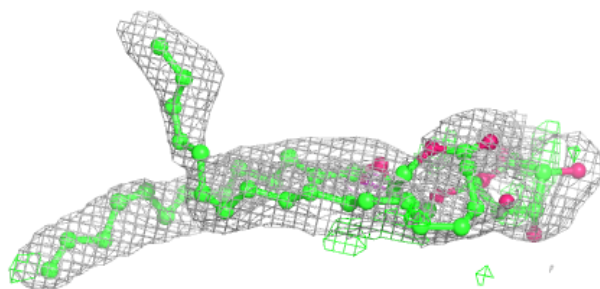
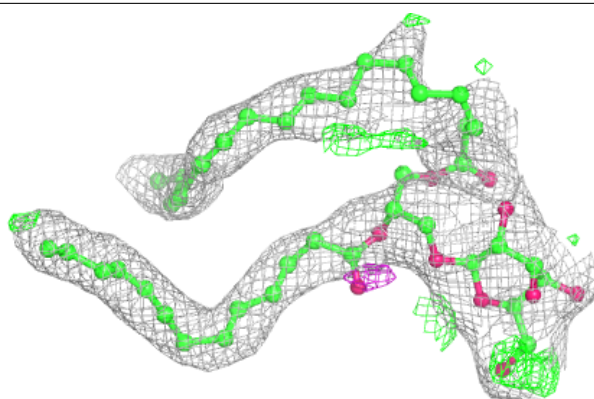
**Electron density around ZEX J 4015:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



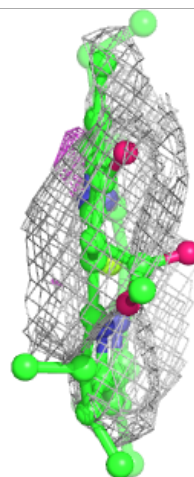
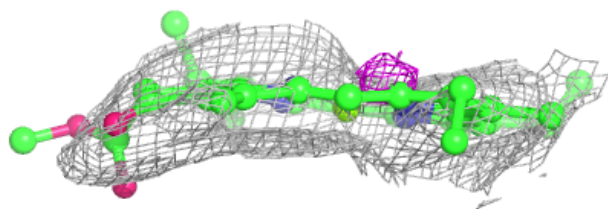
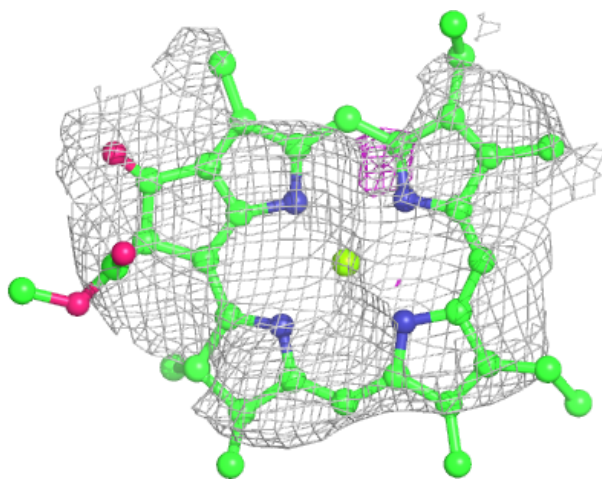
Electron density around LMG A 5002:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



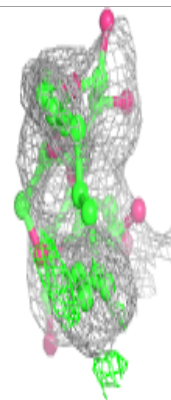
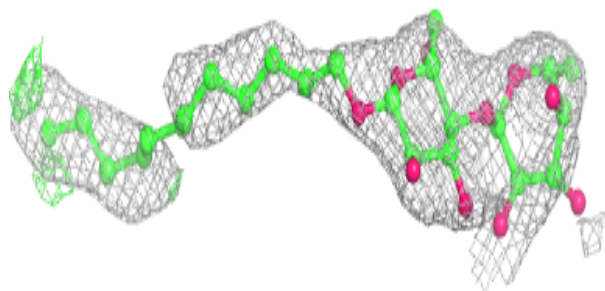
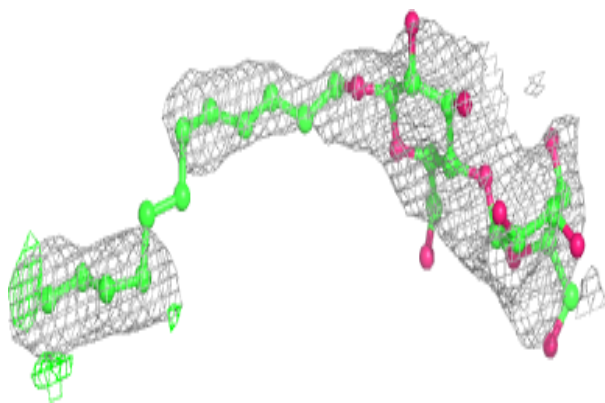
Electron density around CLA 2 1240:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

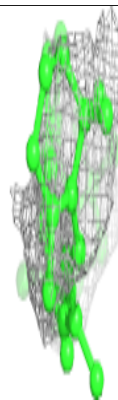
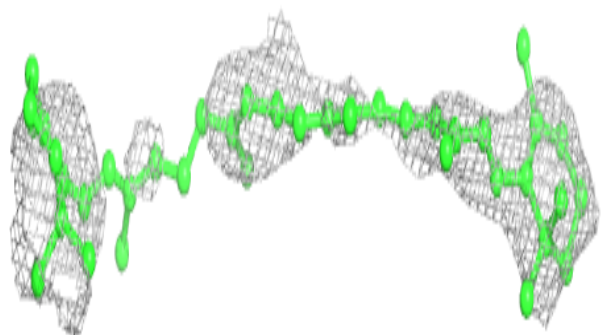
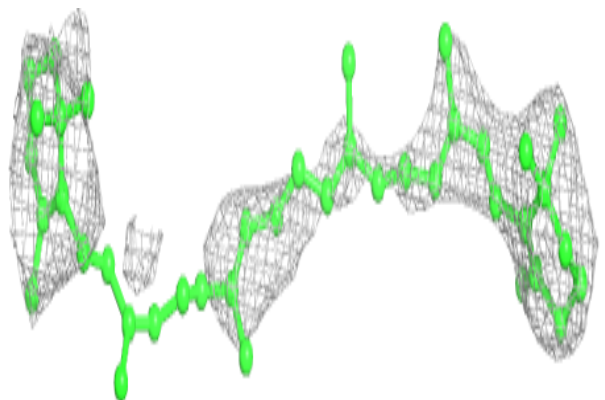


Electron density around LMT 1 6001:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

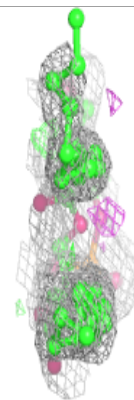
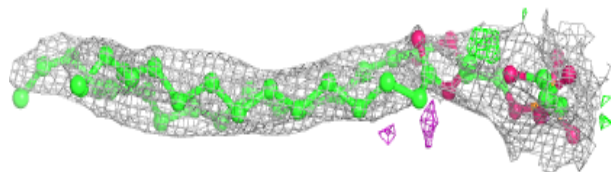
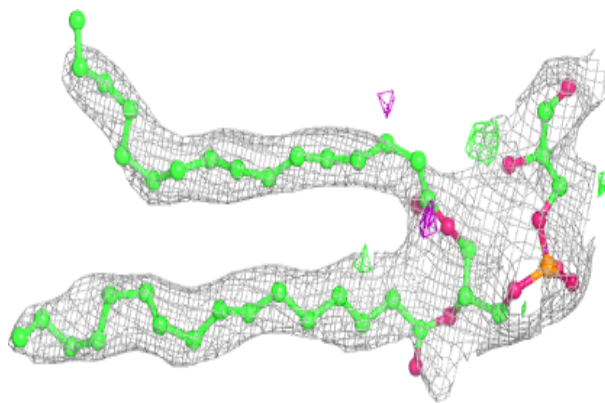
**Electron density around BCR 1 4003:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

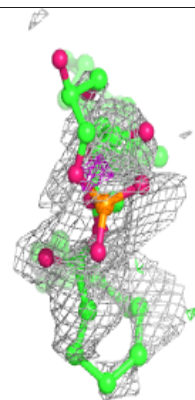
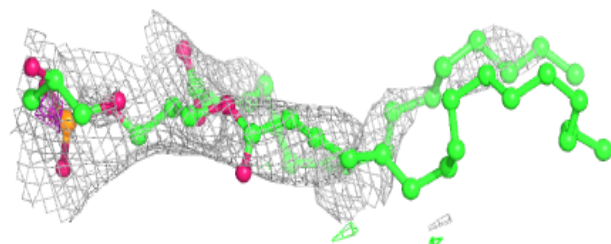
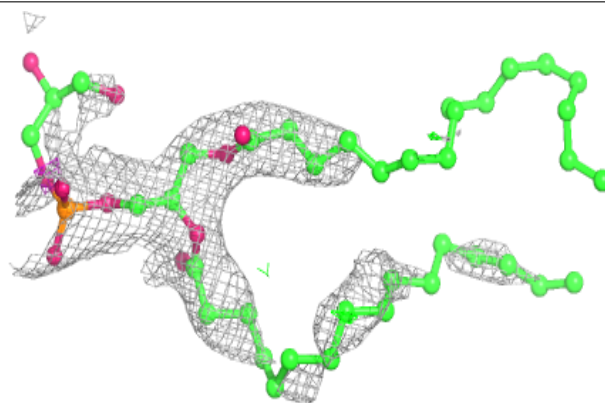


Electron density around LHG A 5005:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

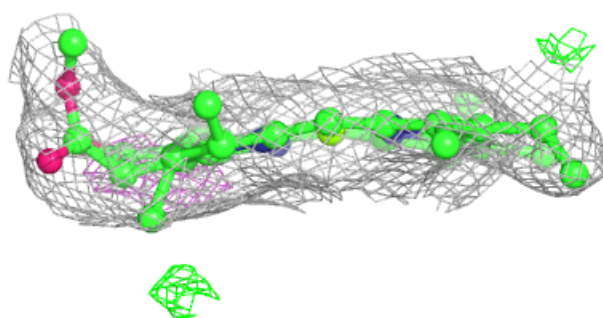
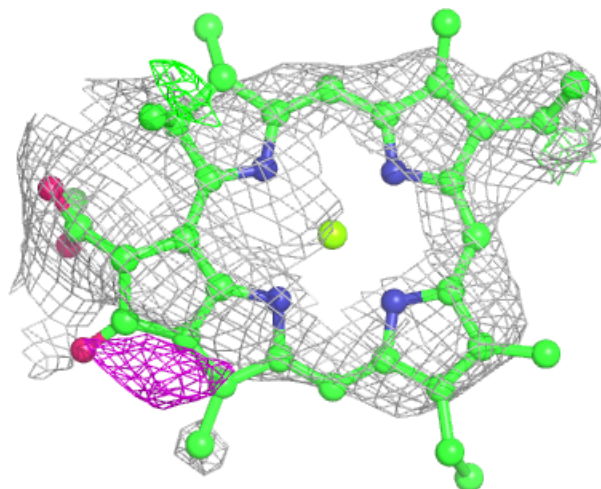
**Electron density around LHG 1 5003:**

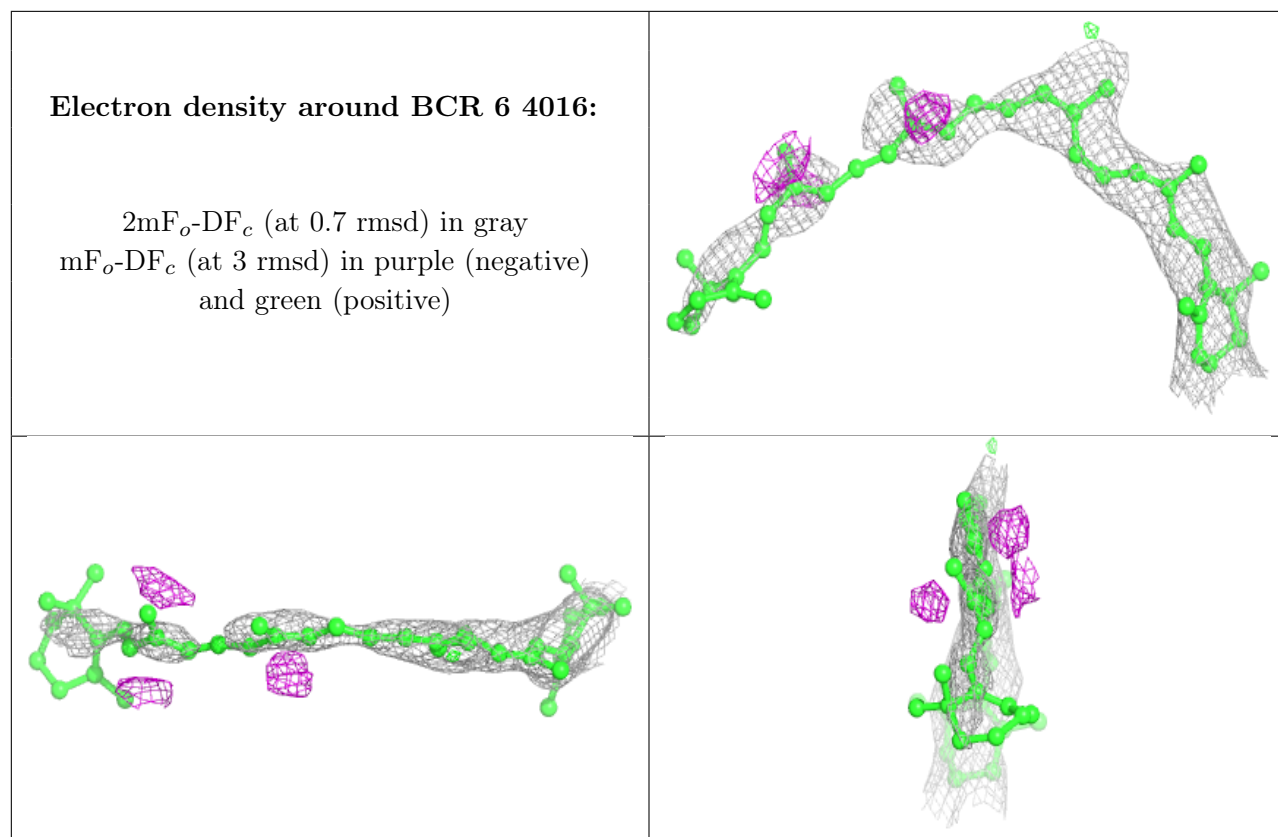
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA 2 1212:

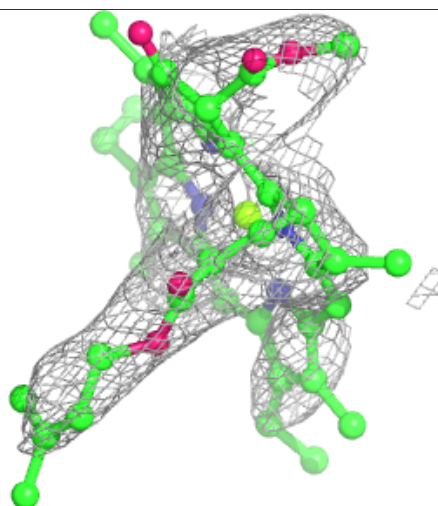
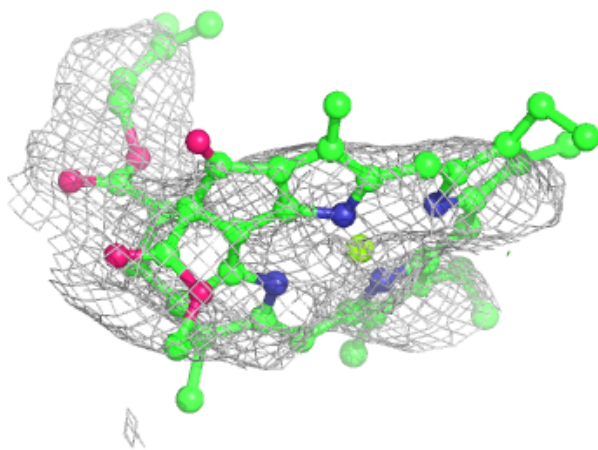
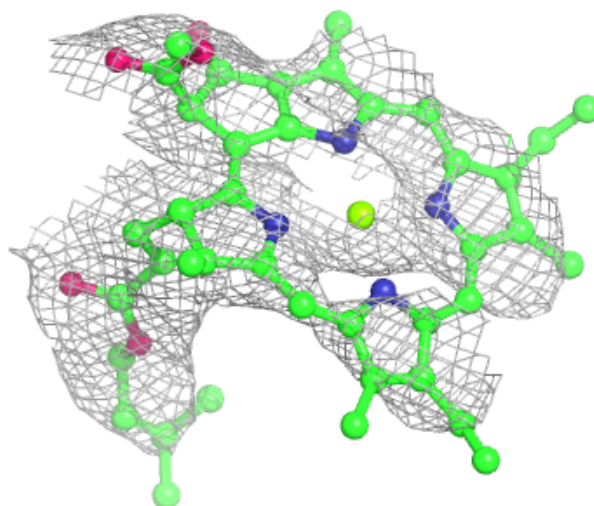
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





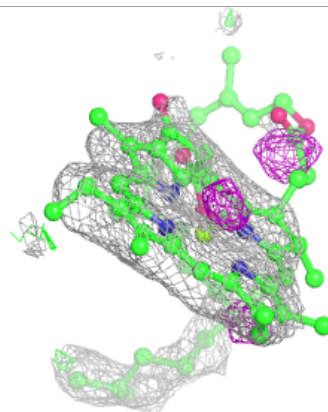
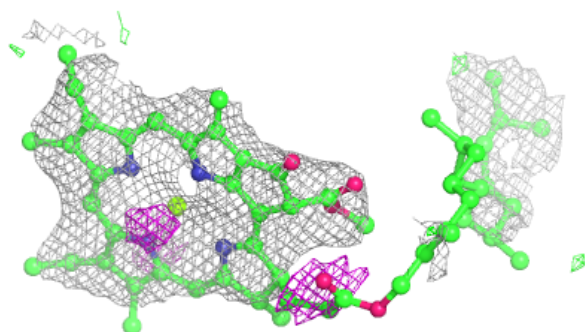
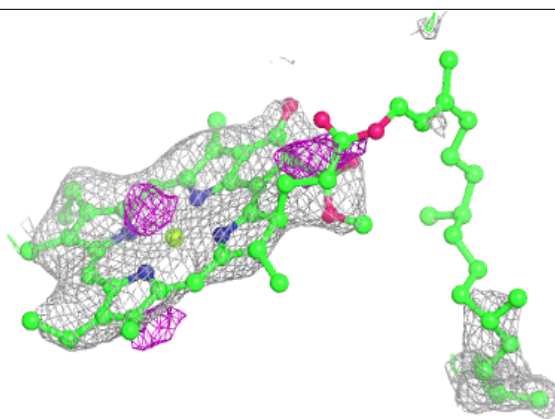
Electron density around CLA 2 1216:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

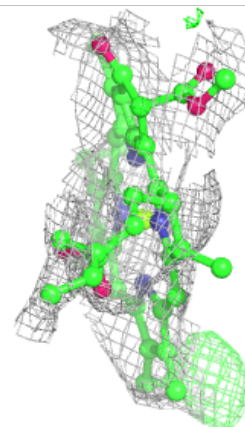
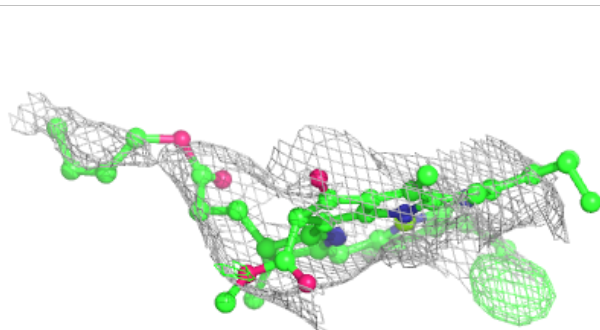
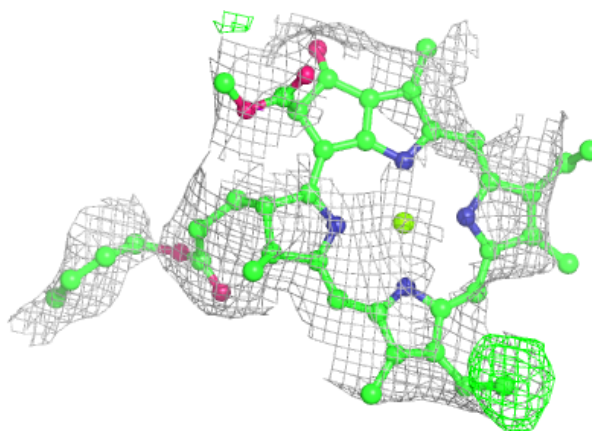


Electron density around CLA B 1240:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

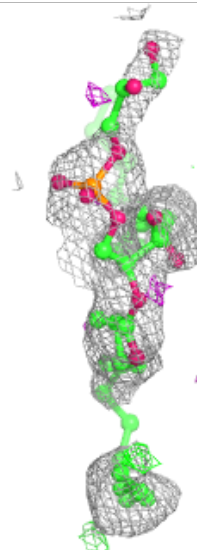
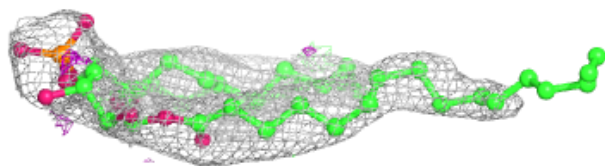
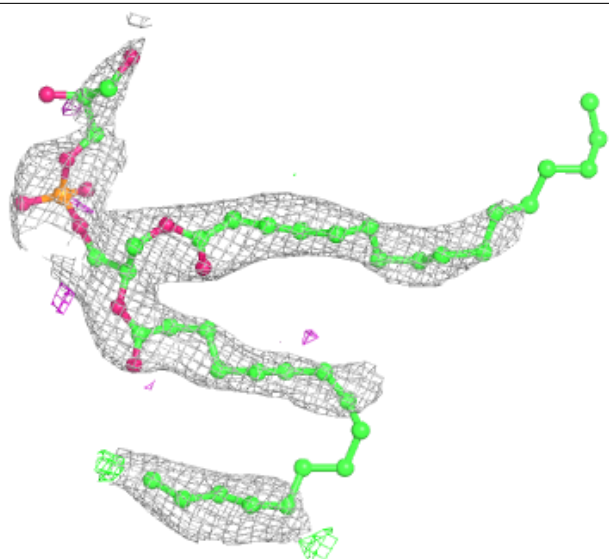
**Electron density around CLA k 1402:**

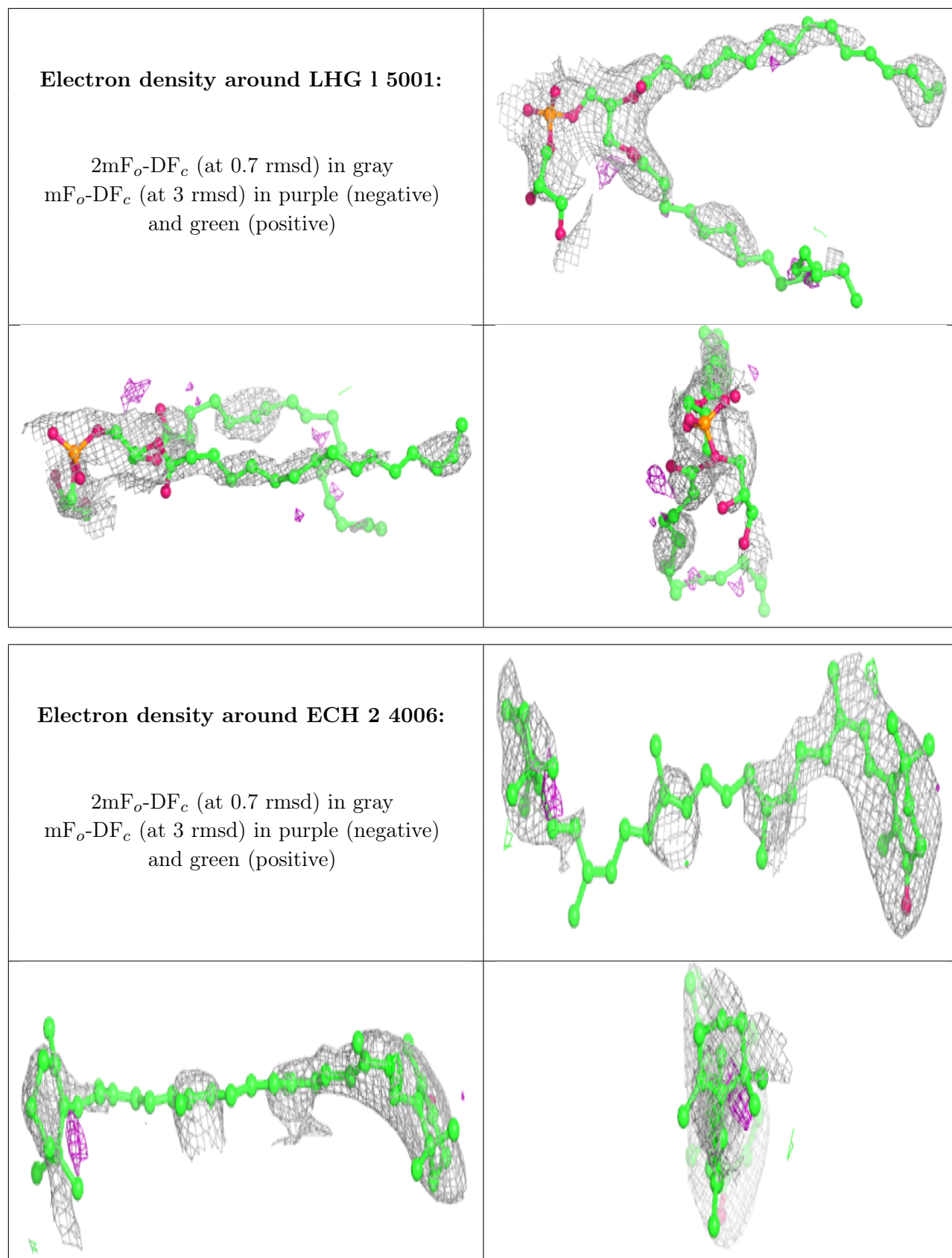
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around LHG A 5007:

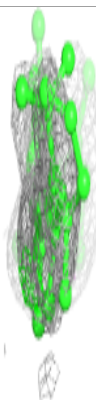
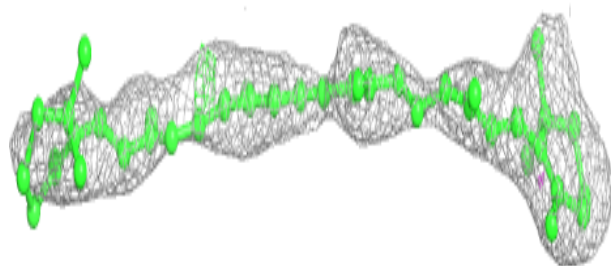
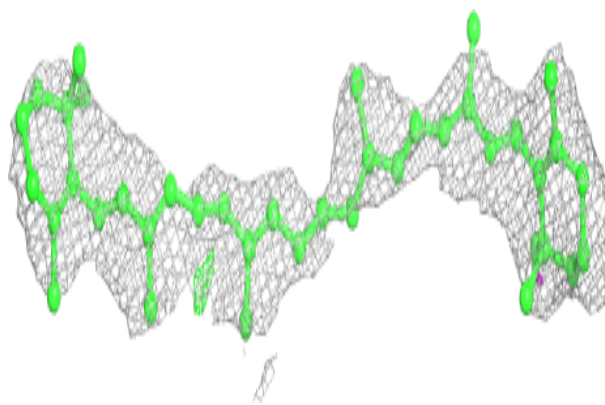
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



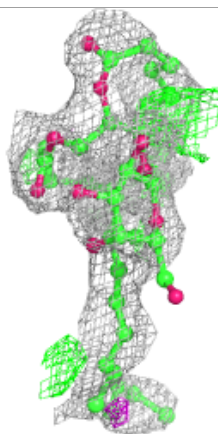
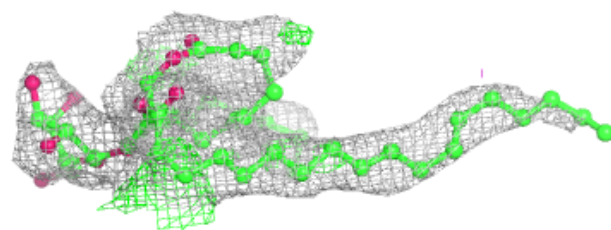
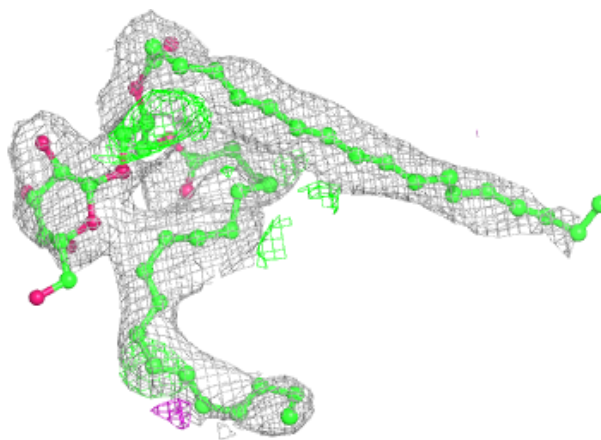


Electron density around BCR B 4004:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

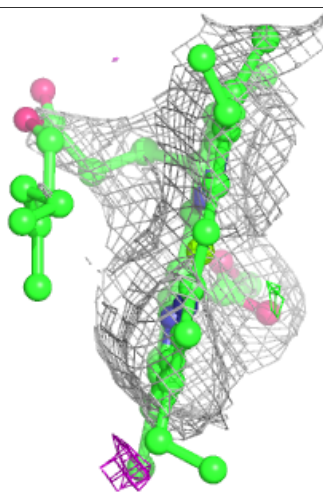
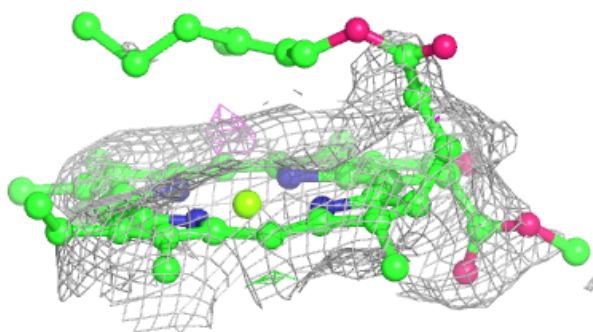
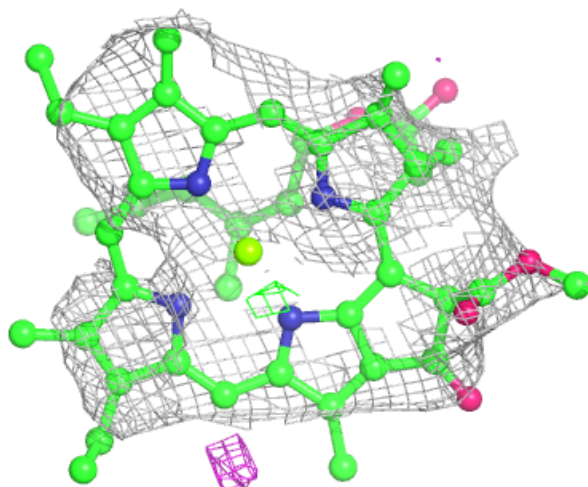
**Electron density around LMG K 5009:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



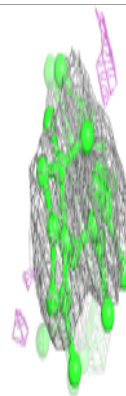
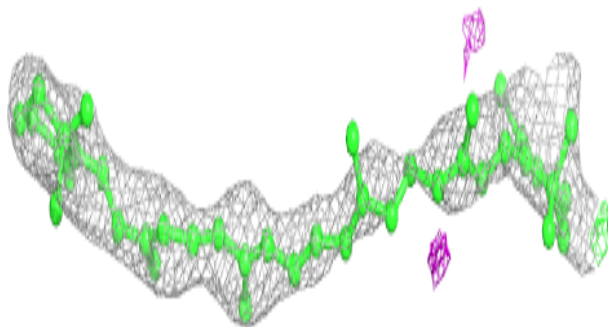
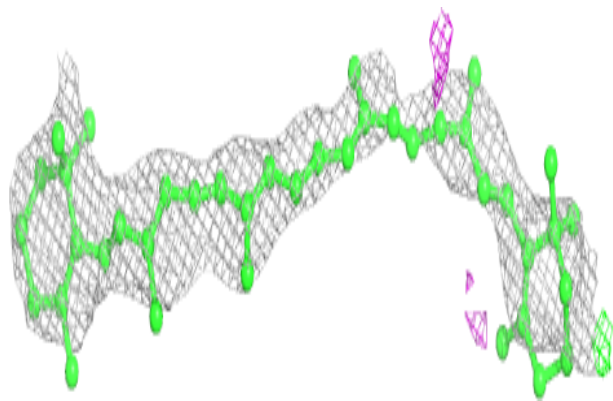
Electron density around CLA a 1114:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

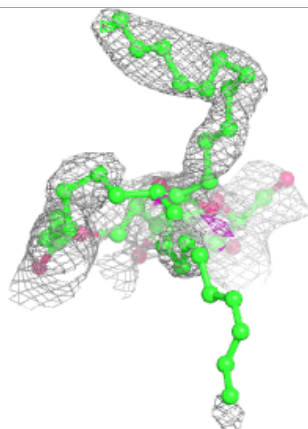
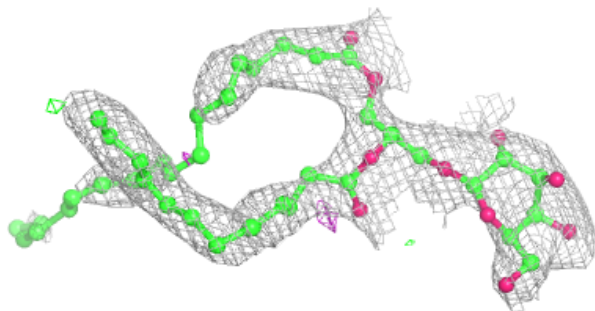
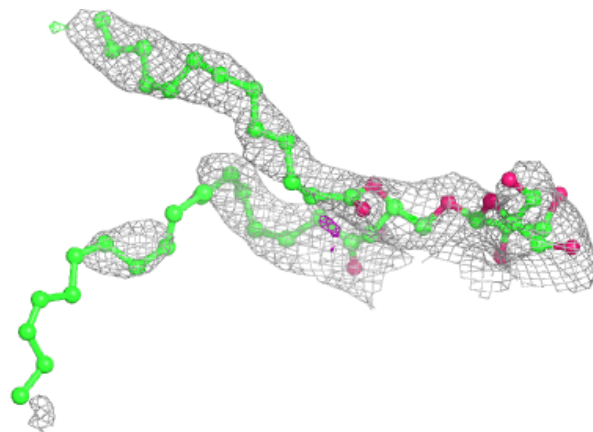


Electron density around BCR j 4013:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

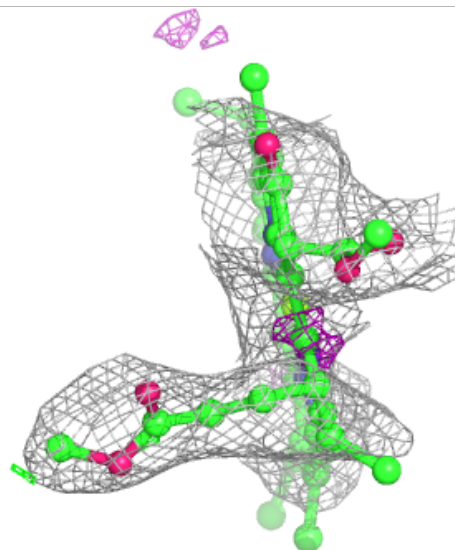
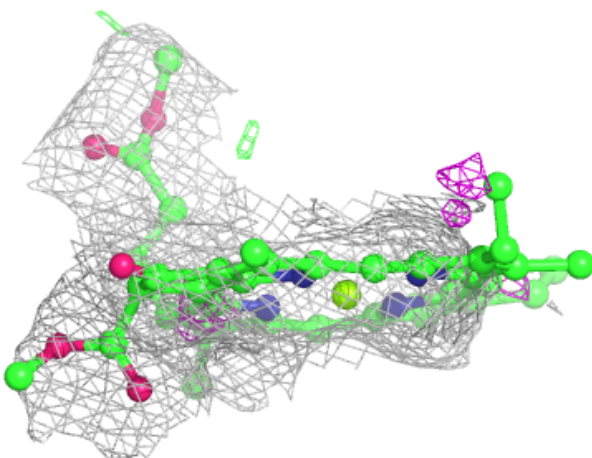
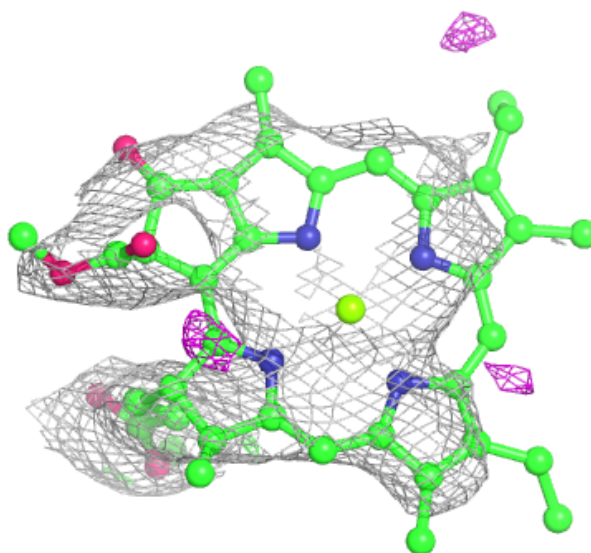
**Electron density around LMG 1 5002:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



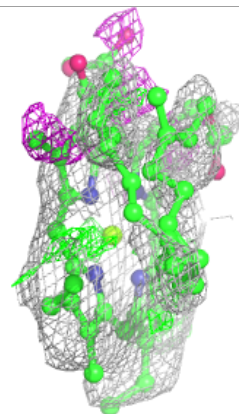
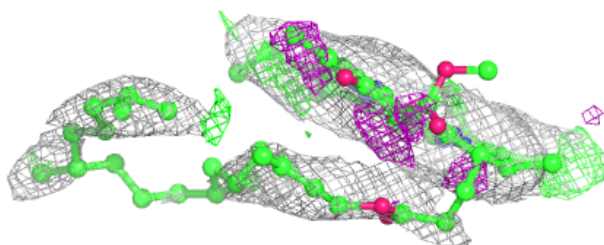
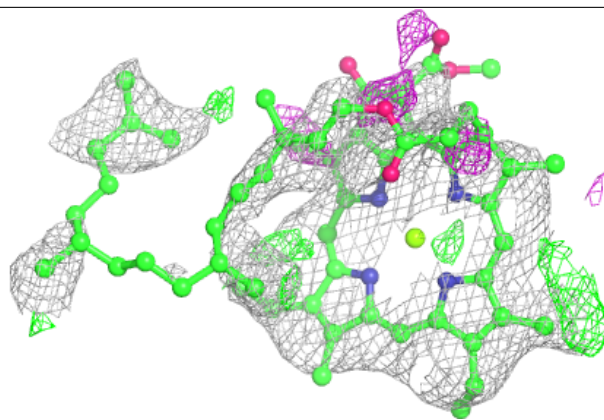
Electron density around CLA 2 1231:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

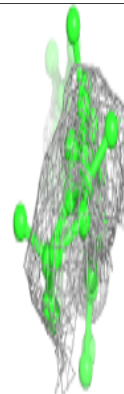
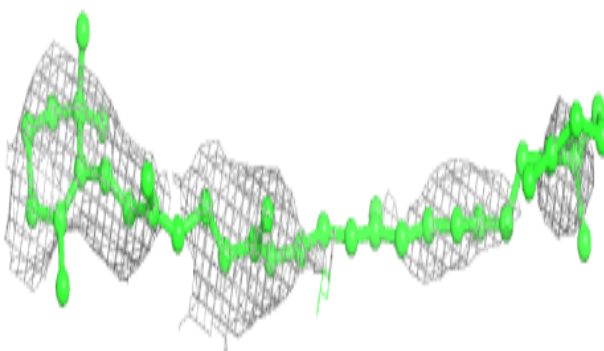
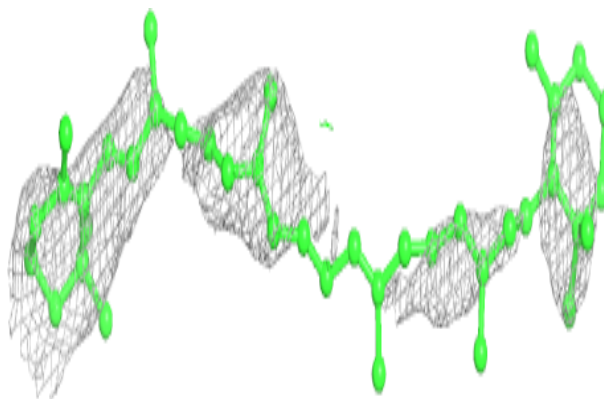


Electron density around CLA J 1302:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

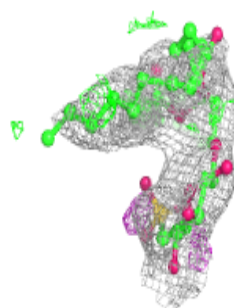
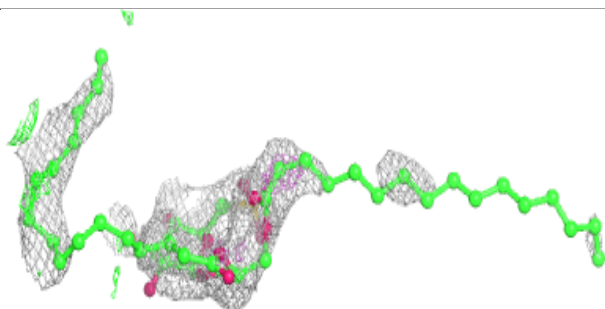
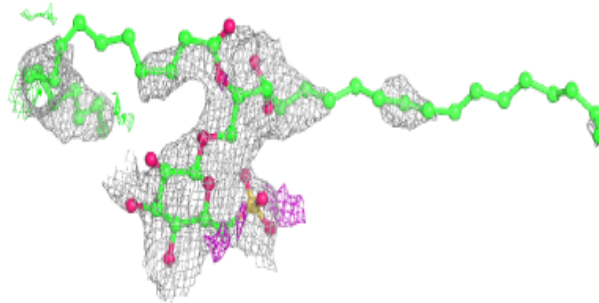
**Electron density around BCR 1 4012:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

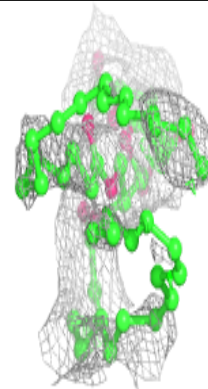
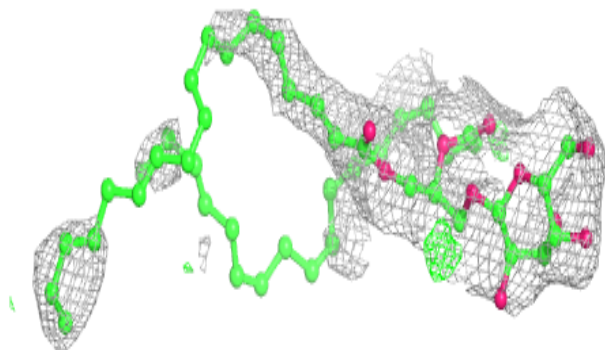
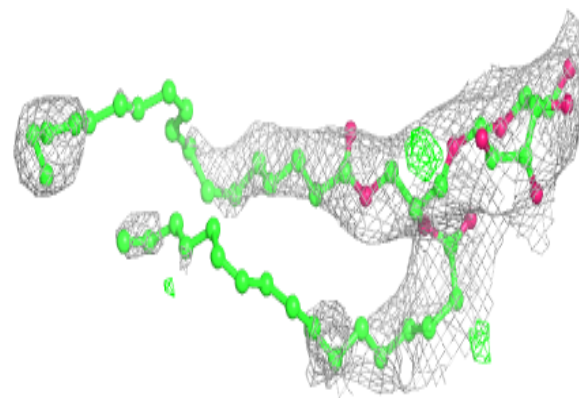


Electron density around SQD F 5001:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

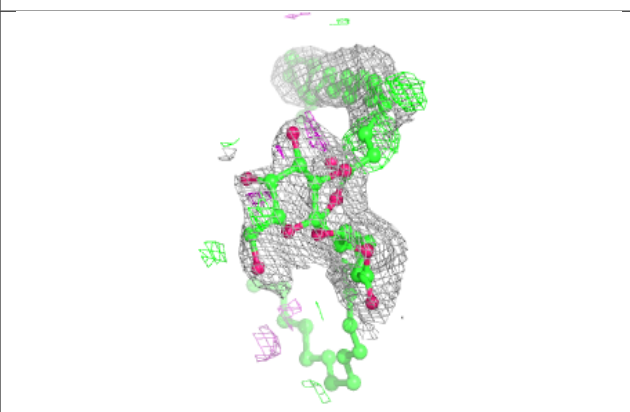
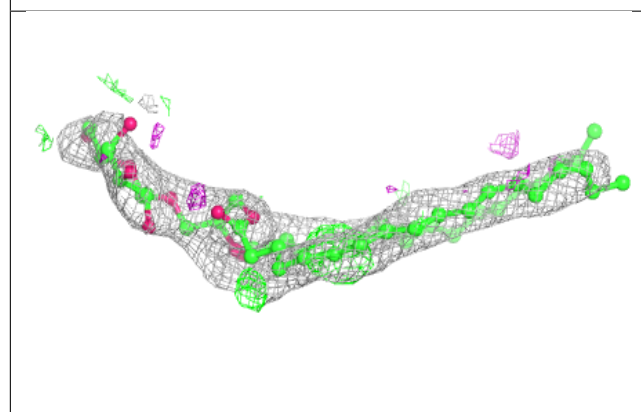
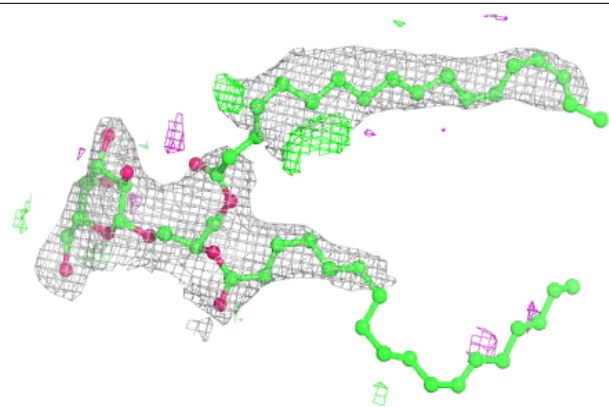
**Electron density around LMG a 5004:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

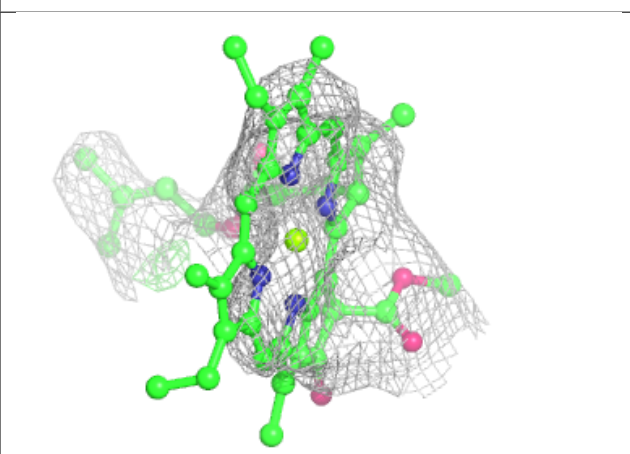
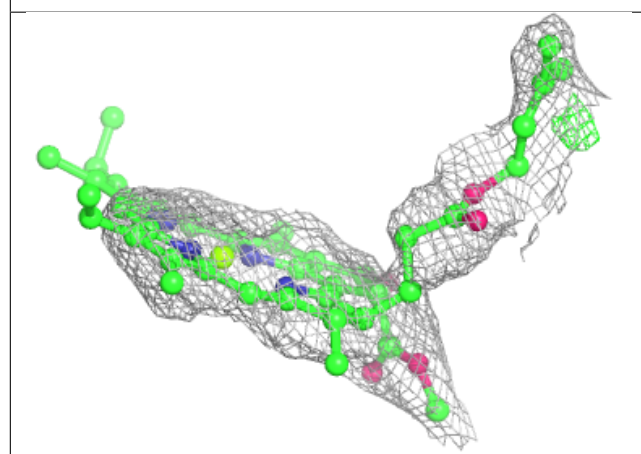
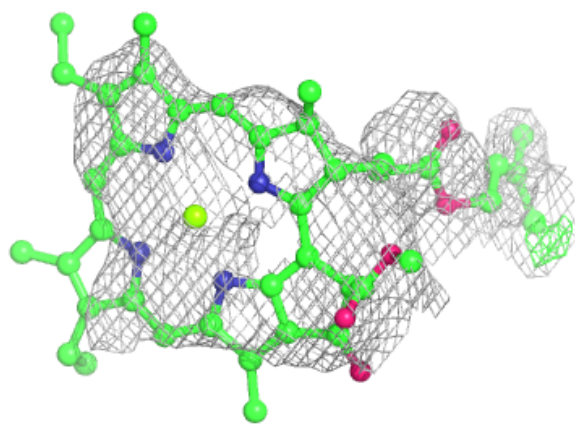


Electron density around LMG b 5005:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

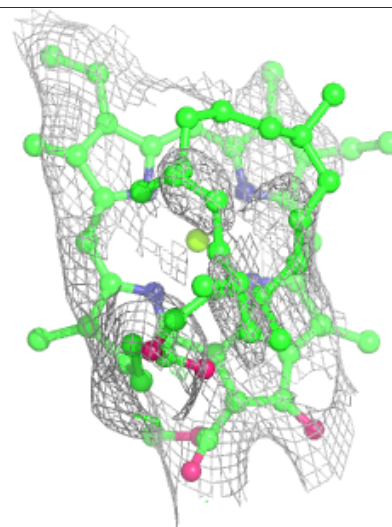
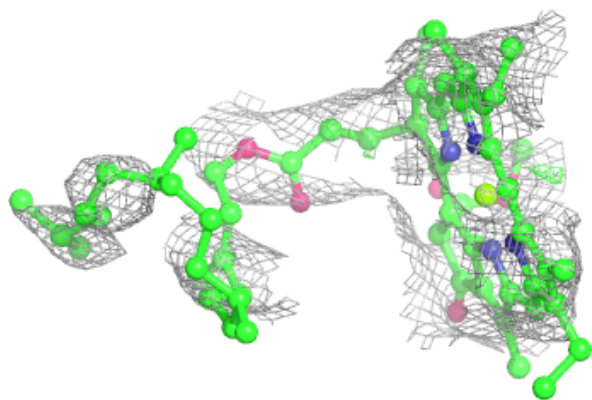
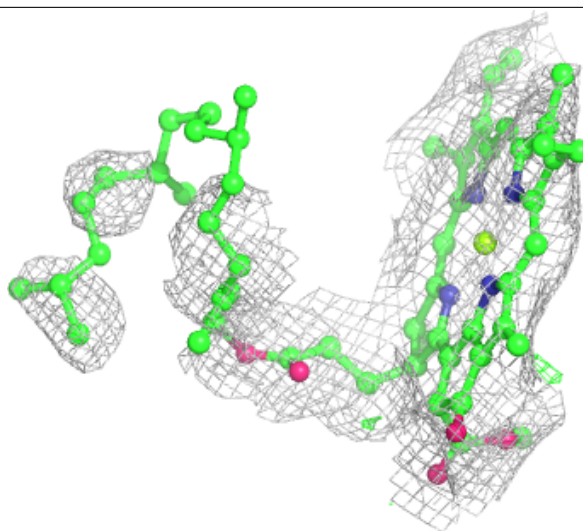
**Electron density around CLA k 1401:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



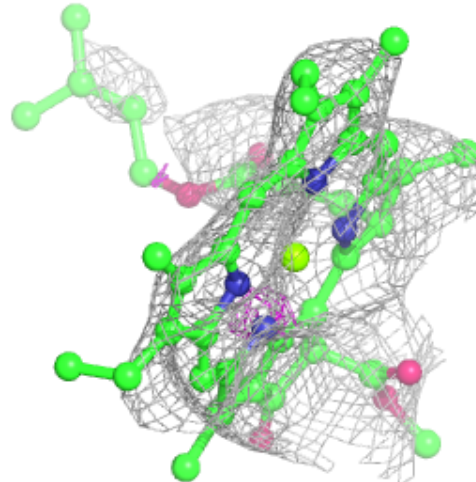
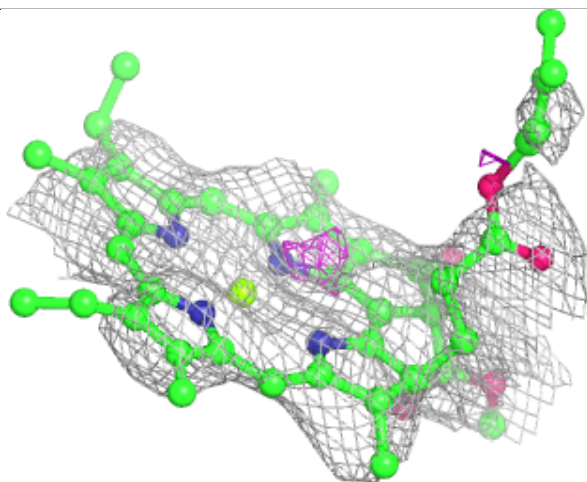
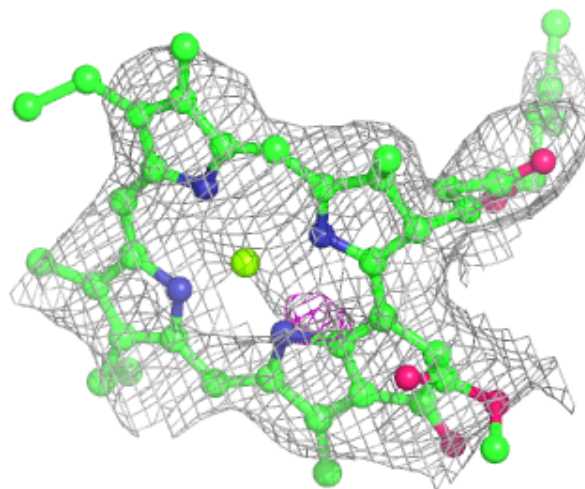
Electron density around CLA a 1112:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



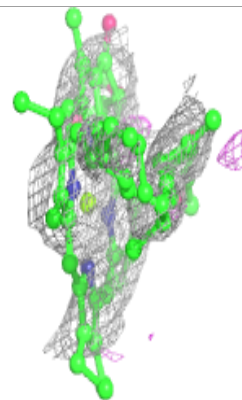
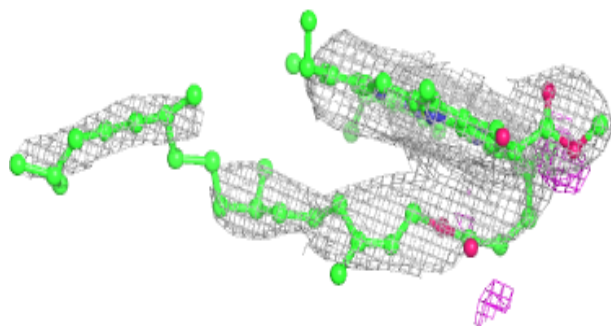
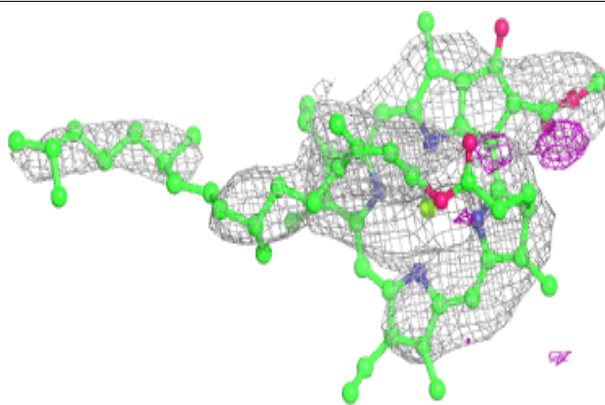
Electron density around CLA 1 1105:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

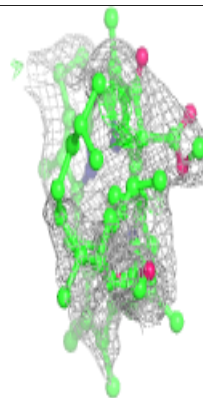
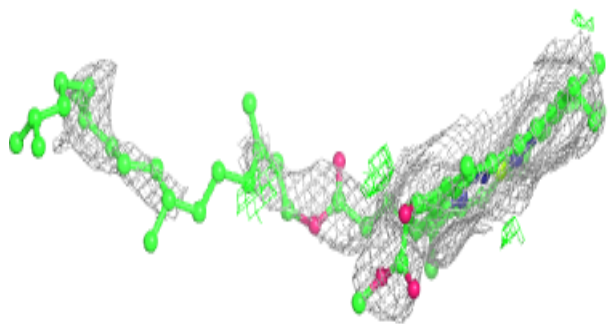
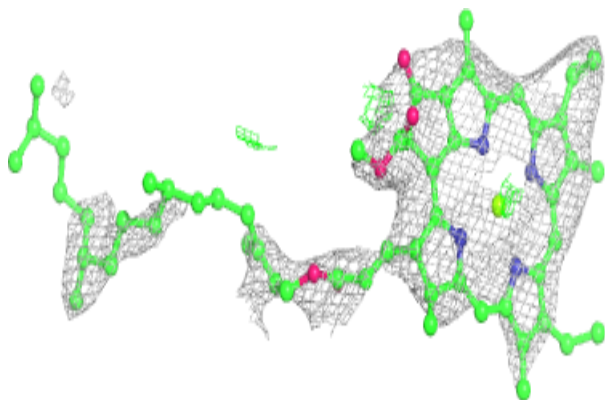


Electron density around CLA a 1115:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

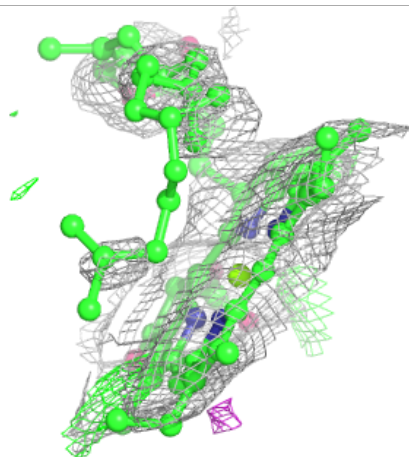
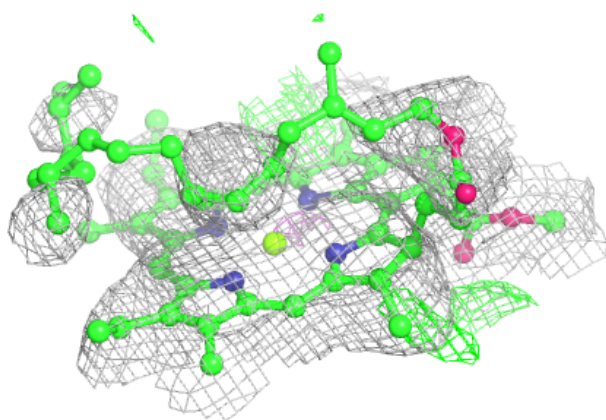
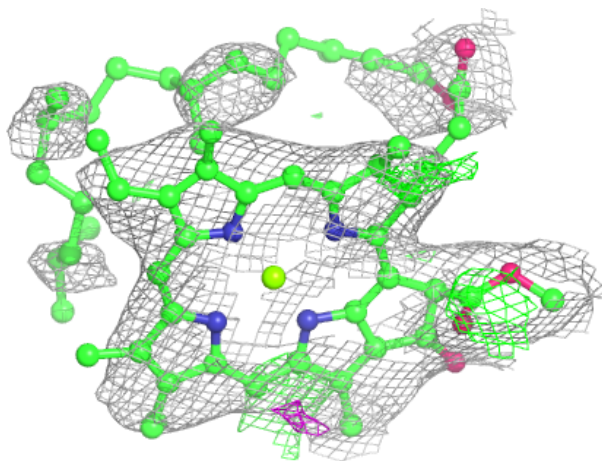
**Electron density around CLA 1 1139:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



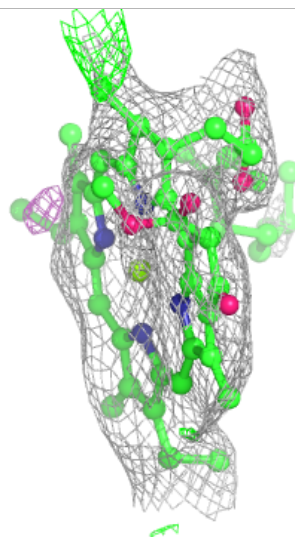
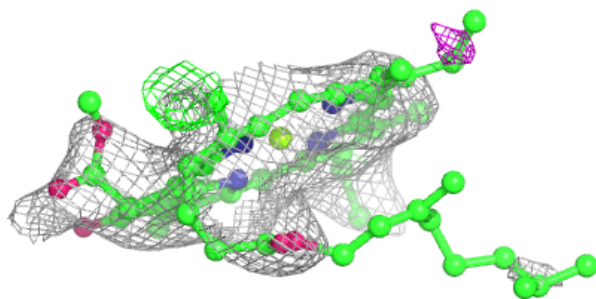
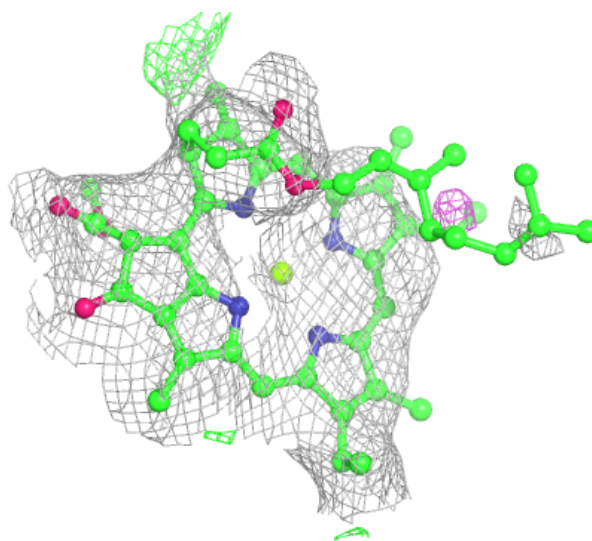
Electron density around CLA a 1118:

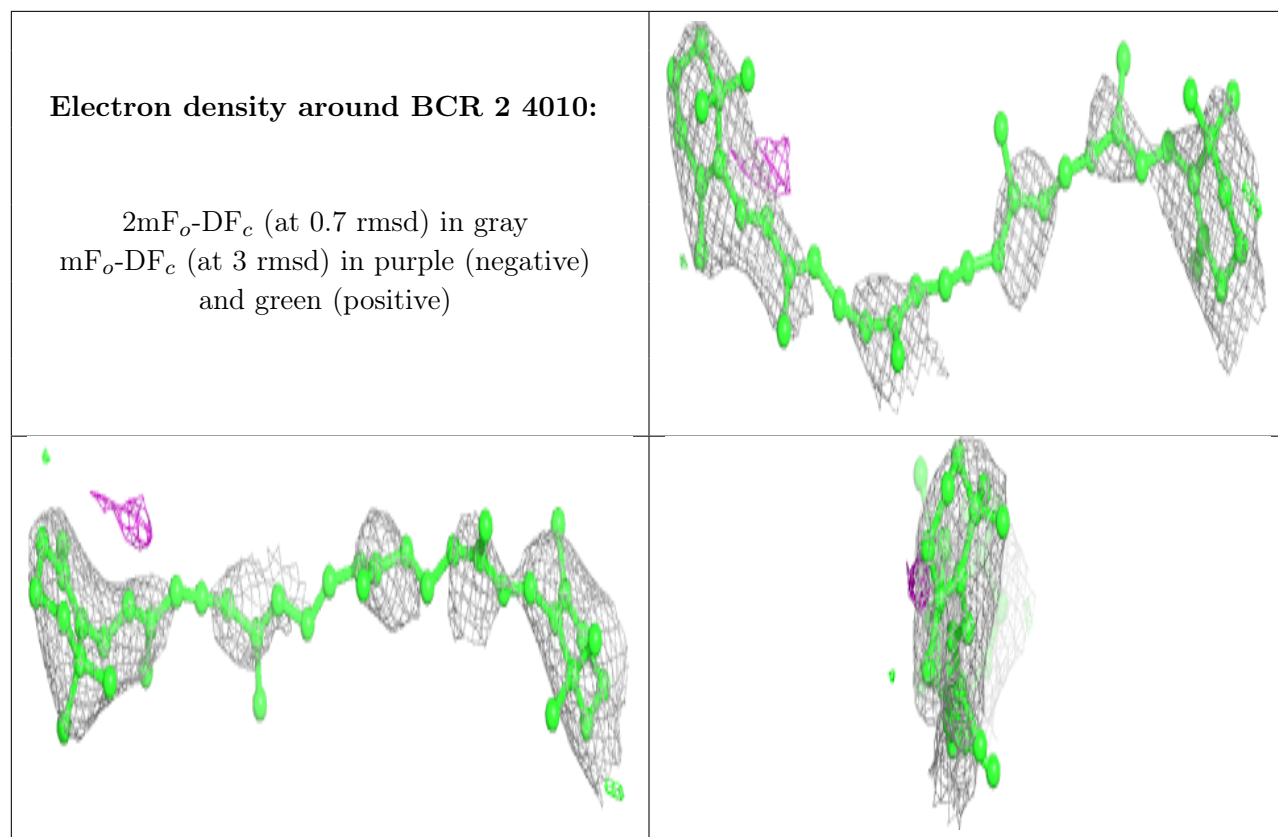
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA a 1120:

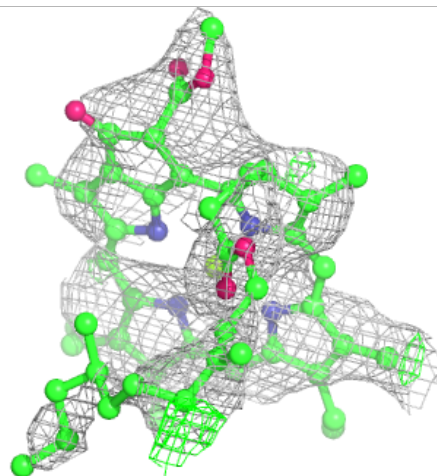
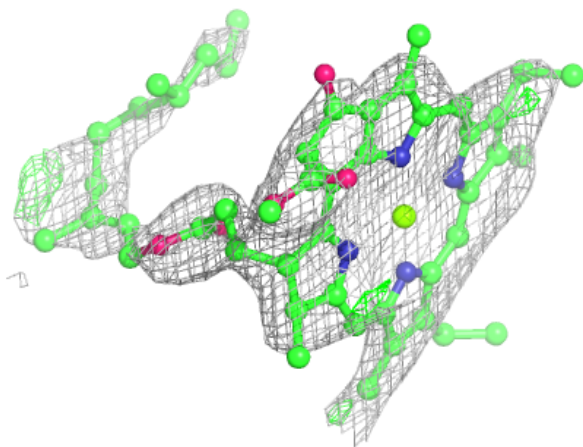
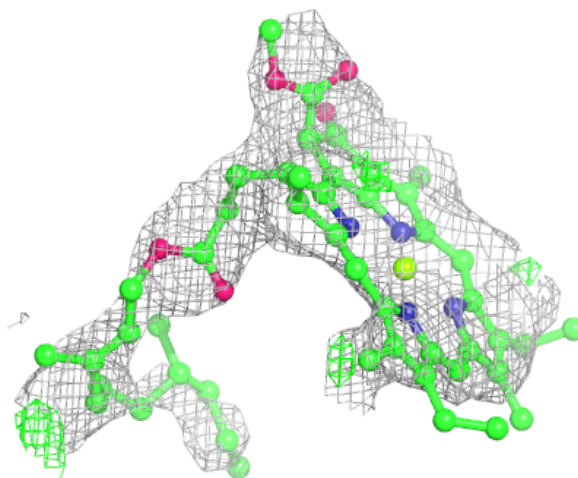
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





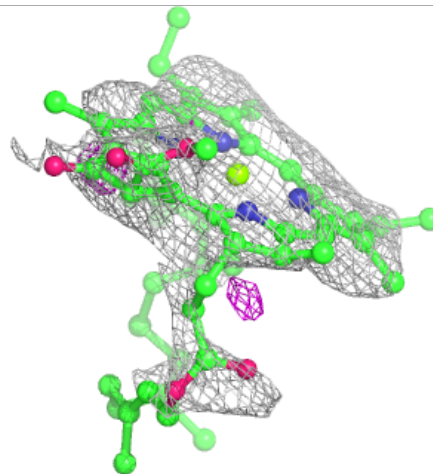
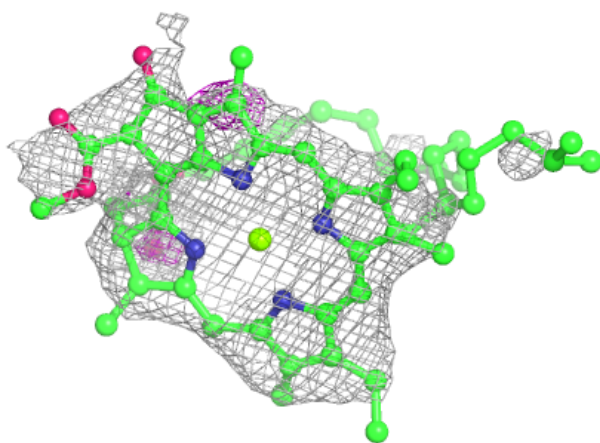
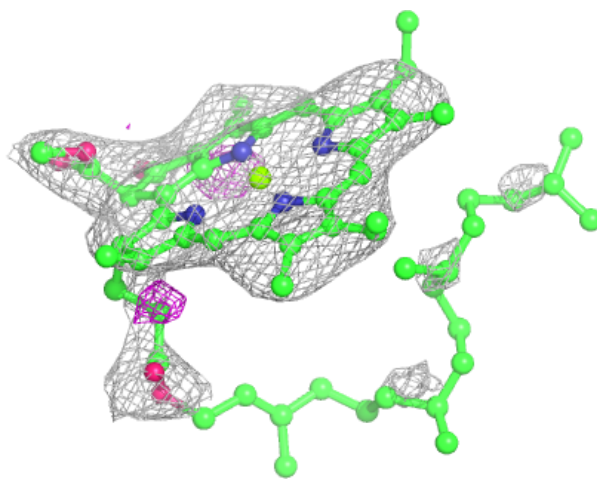
Electron density around CLA a 1108:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



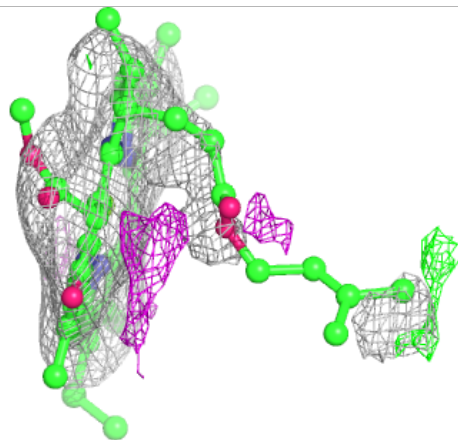
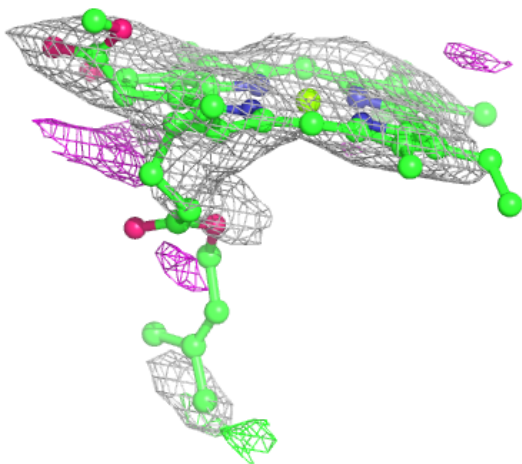
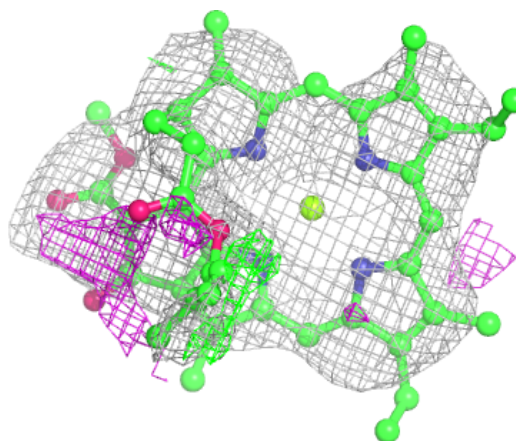
Electron density around CLA J 1303:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



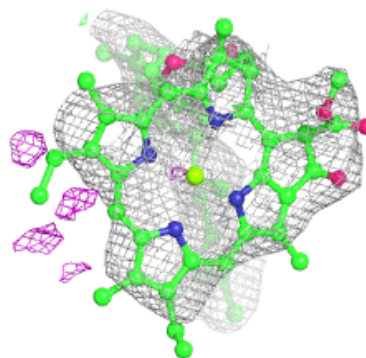
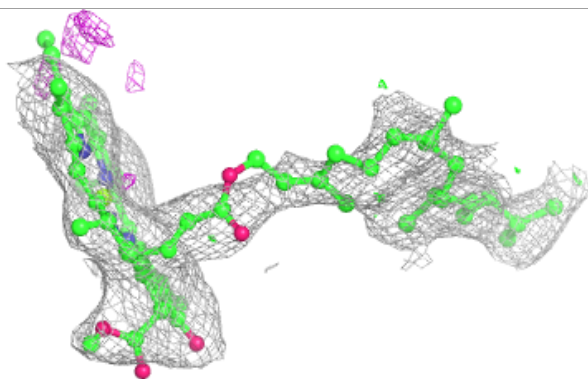
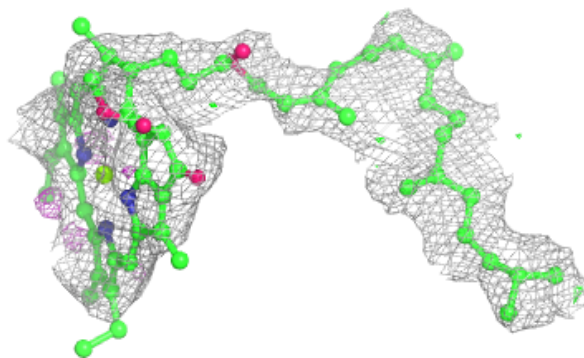
Electron density around CLA 2 1213:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

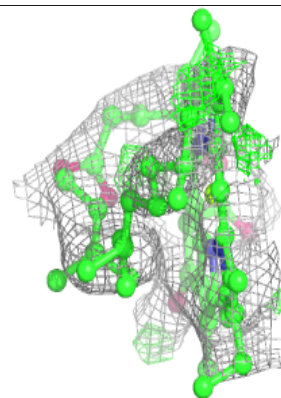
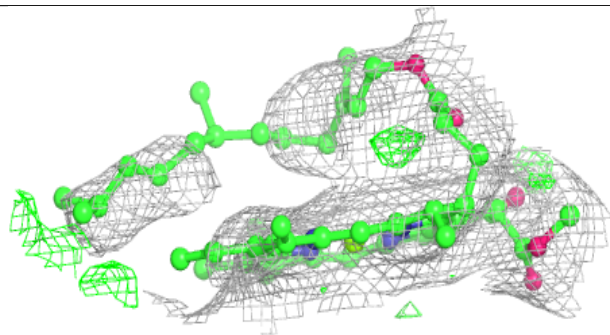
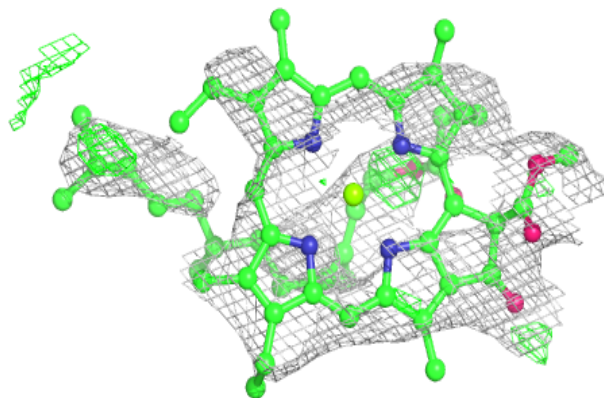


Electron density around CLA 1 1134:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

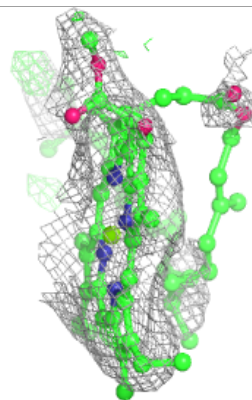
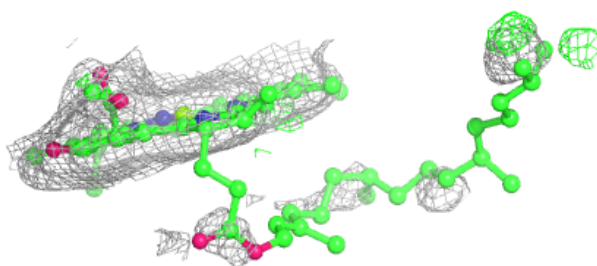
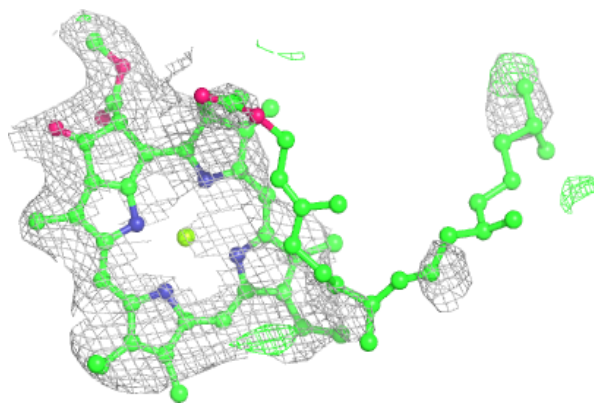
**Electron density around CLA 1 1138:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

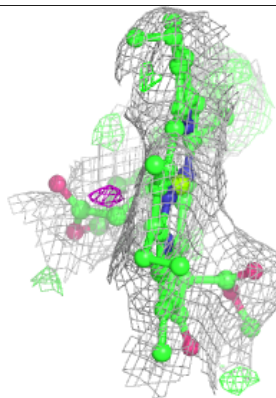
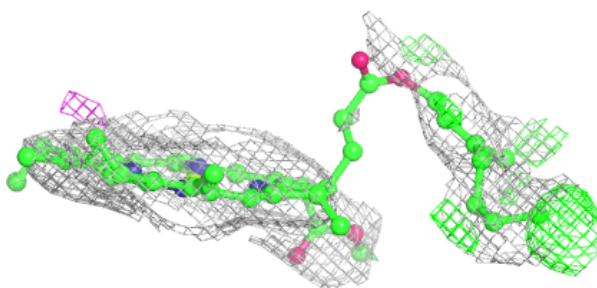
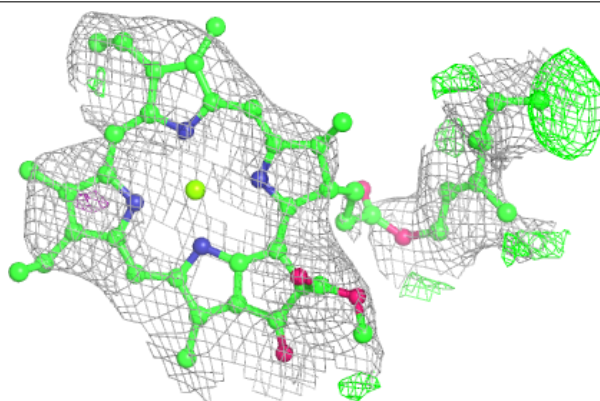


Electron density around CLA 2 1218:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

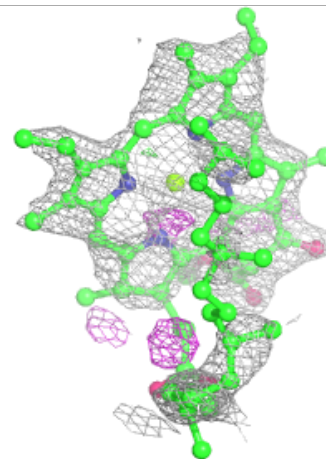
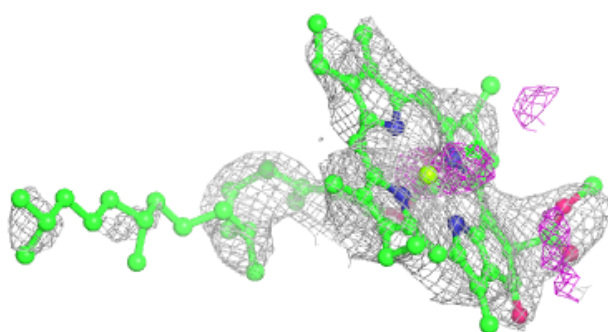
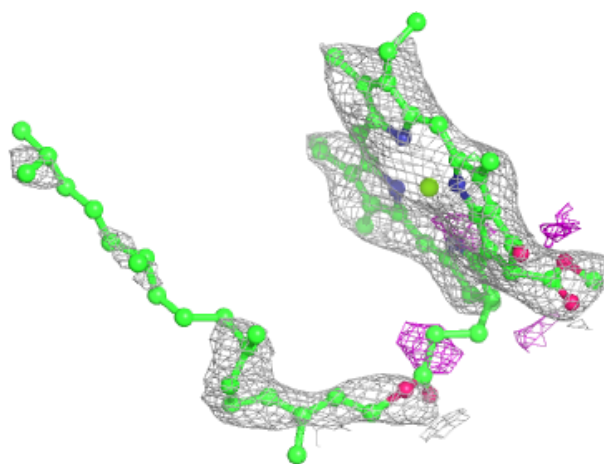
**Electron density around CLA 2 1219:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



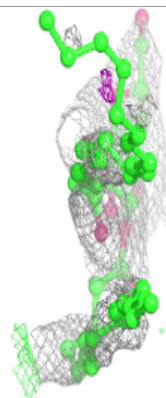
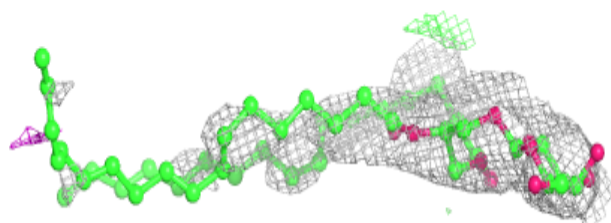
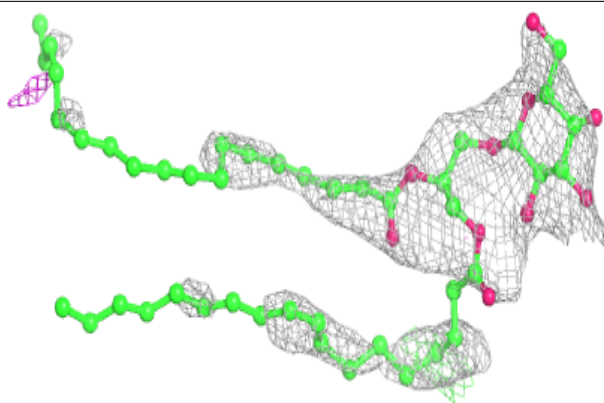
Electron density around CLA a 1102:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

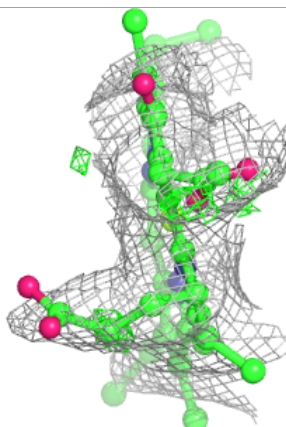
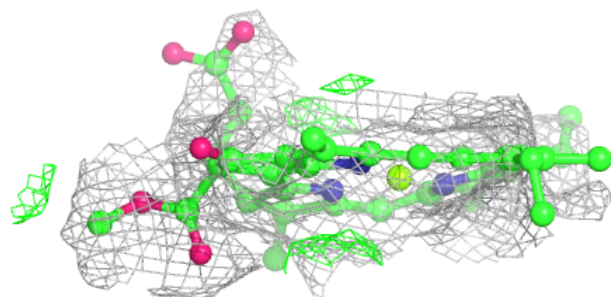
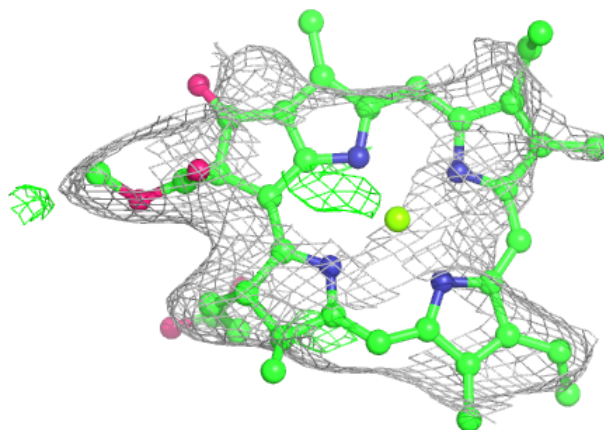


Electron density around LMG 1 5004:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

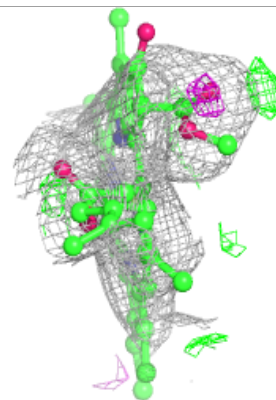
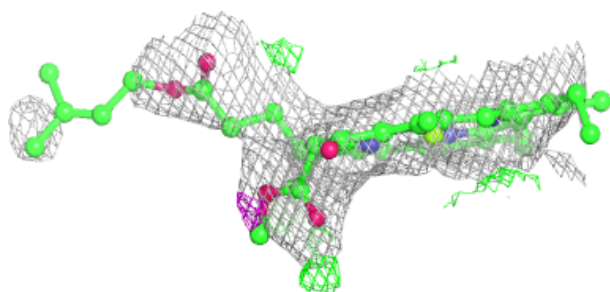
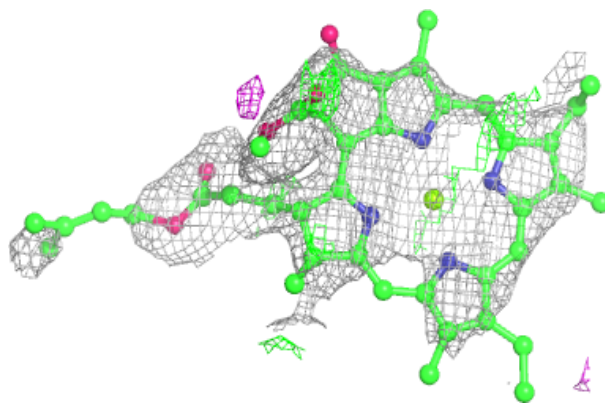
**Electron density around CLA 2 1232:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

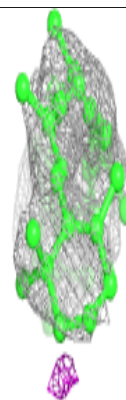
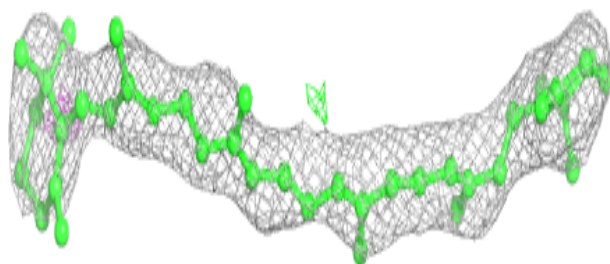
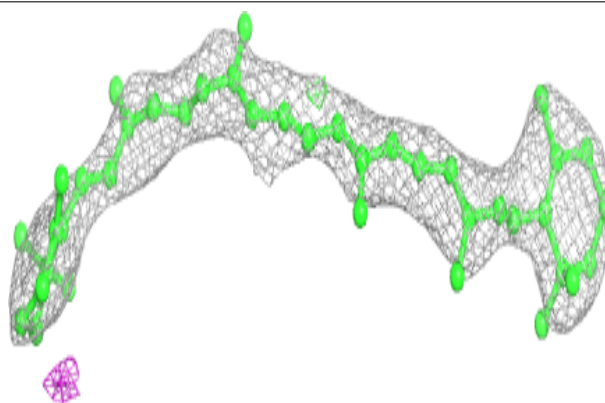


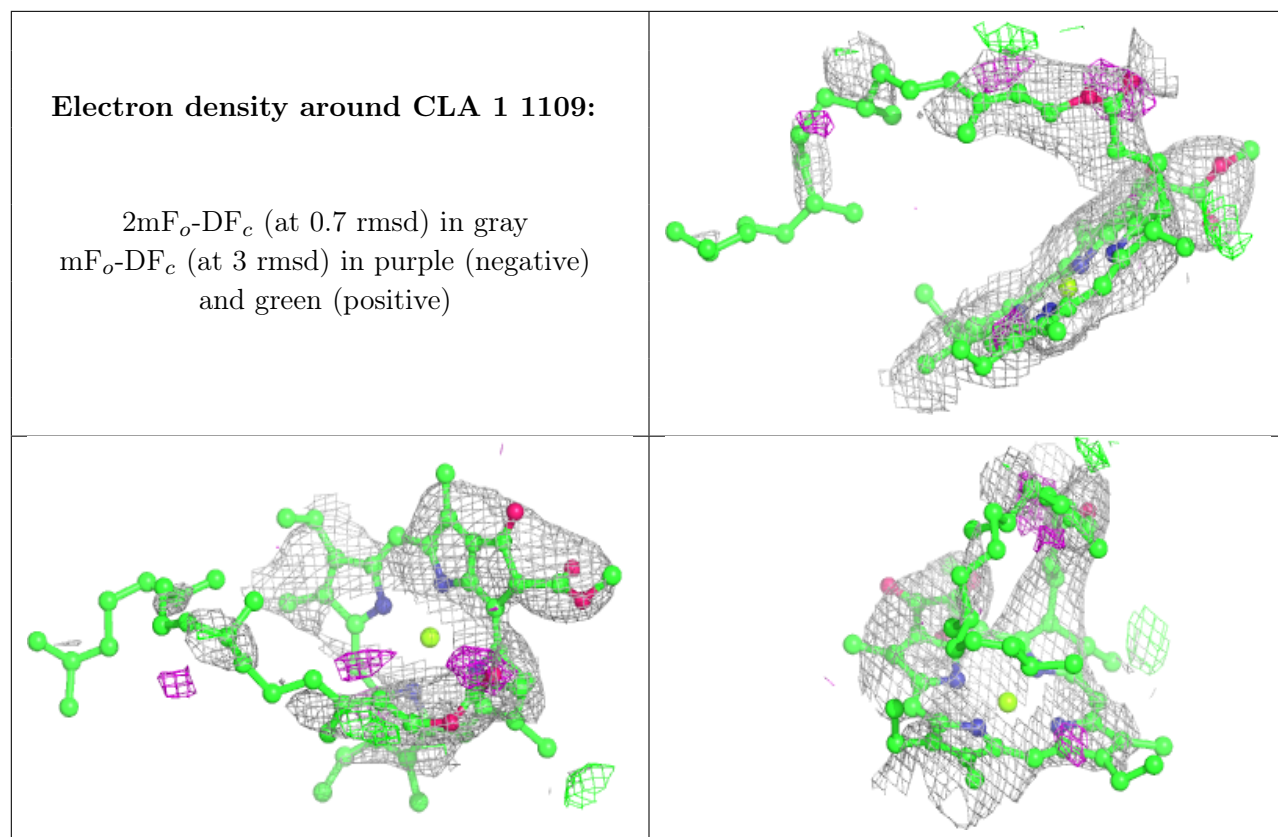
Electron density around CLA 2 1234:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around BCR b 4014:**

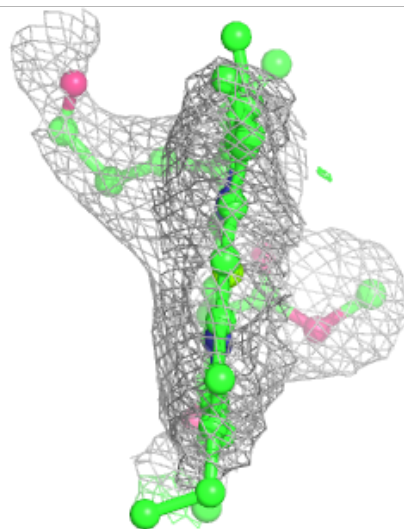
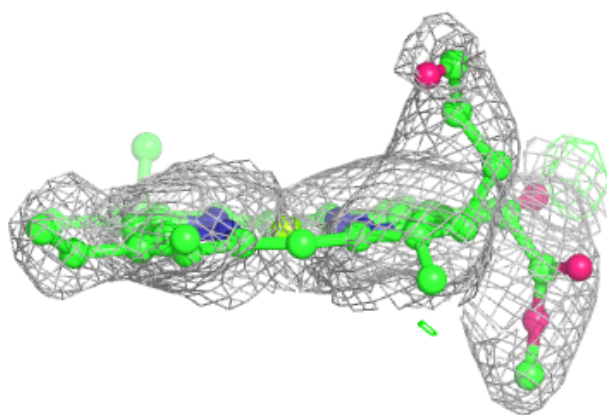
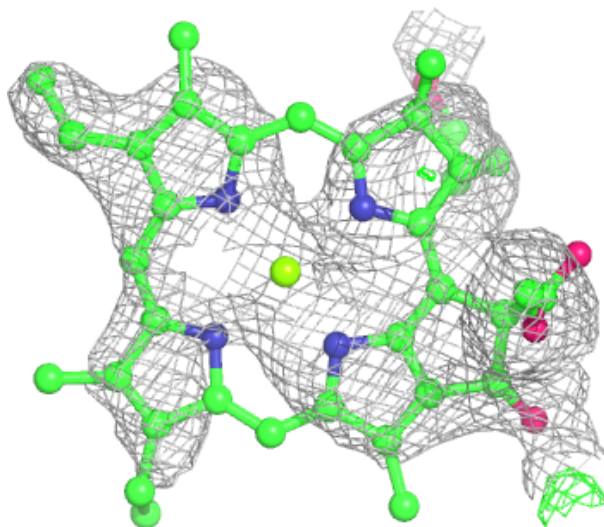
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

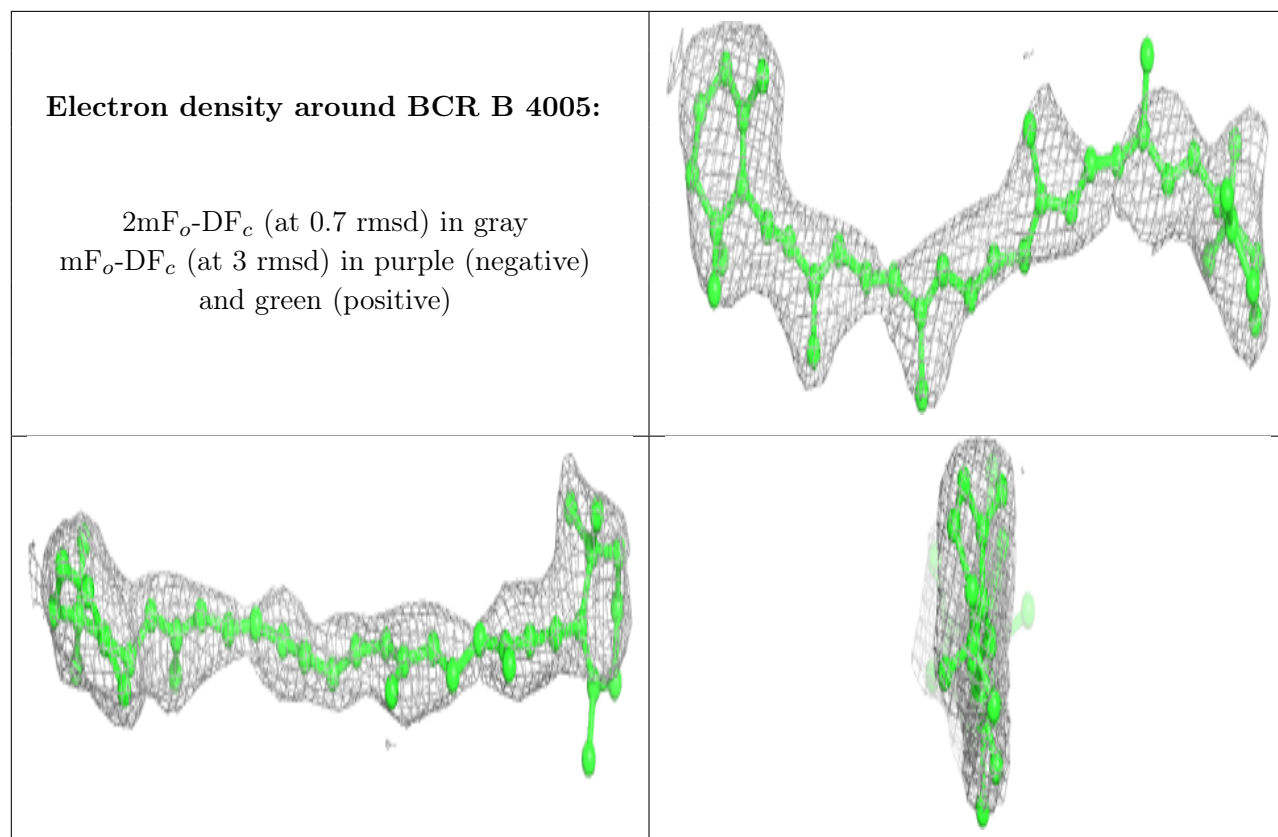




Electron density around CLA 1 1113:

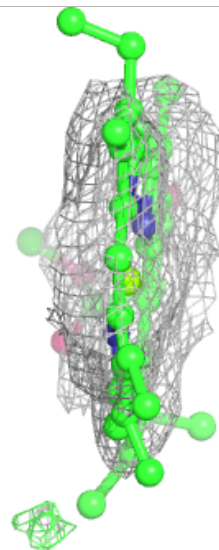
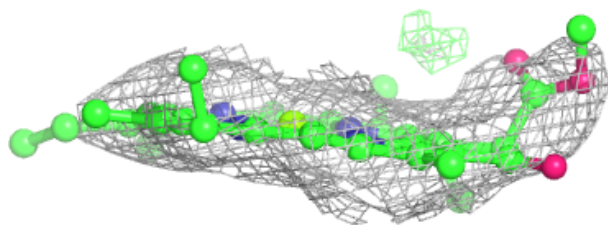
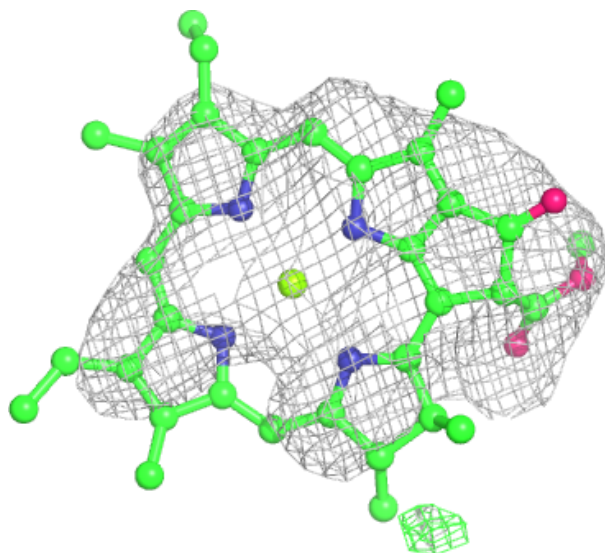
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

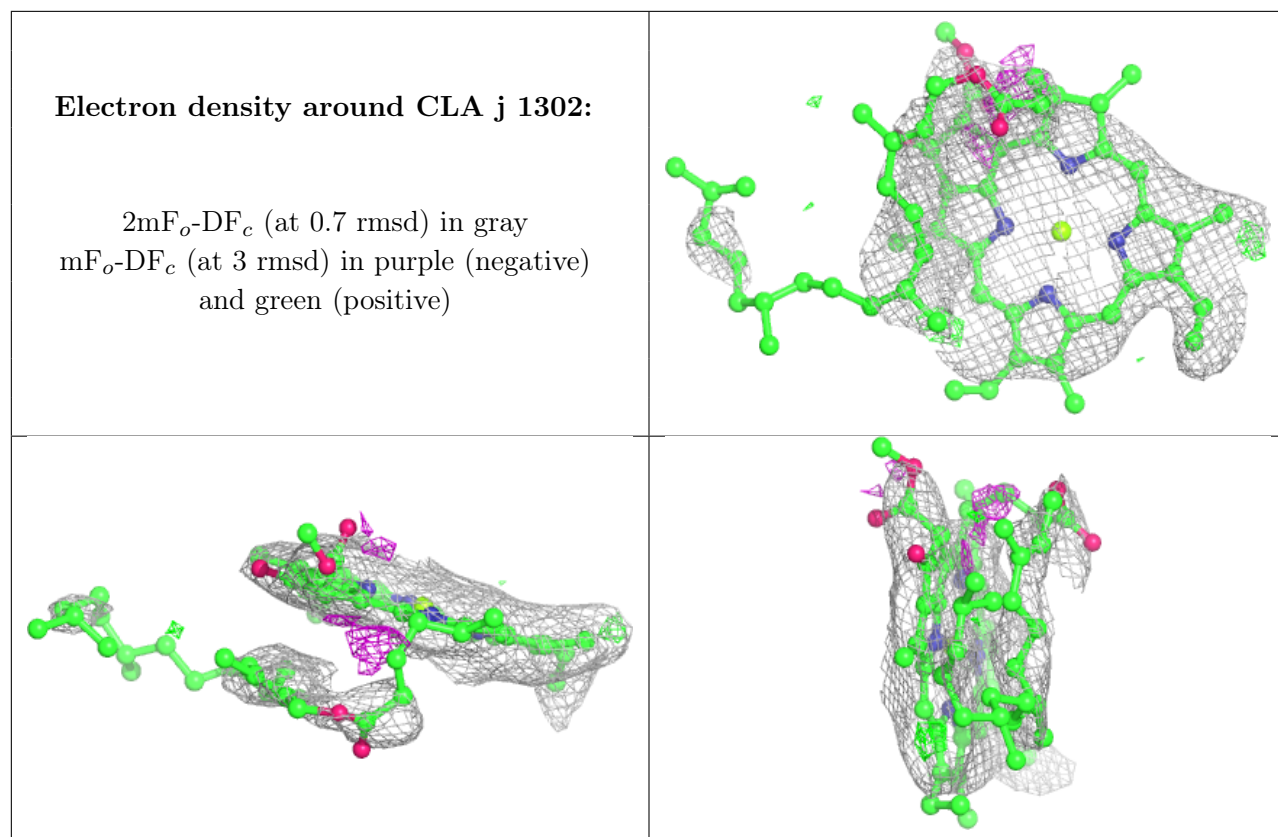




Electron density around CLA 7 1303:

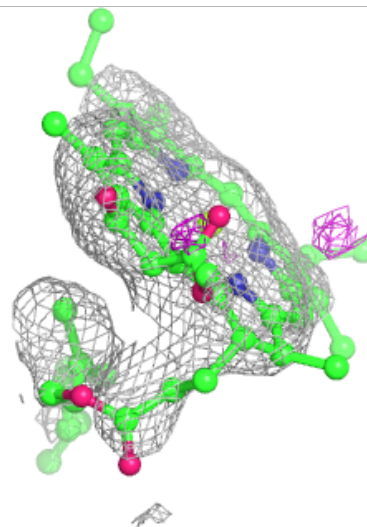
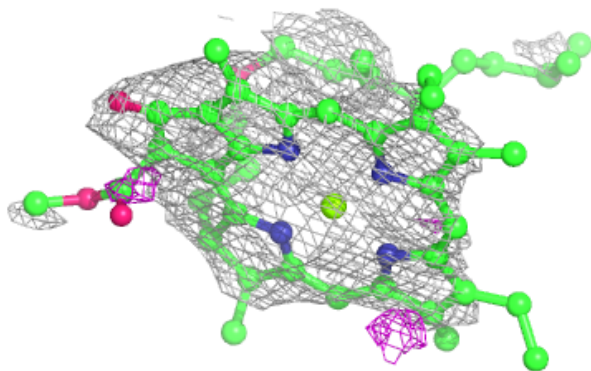
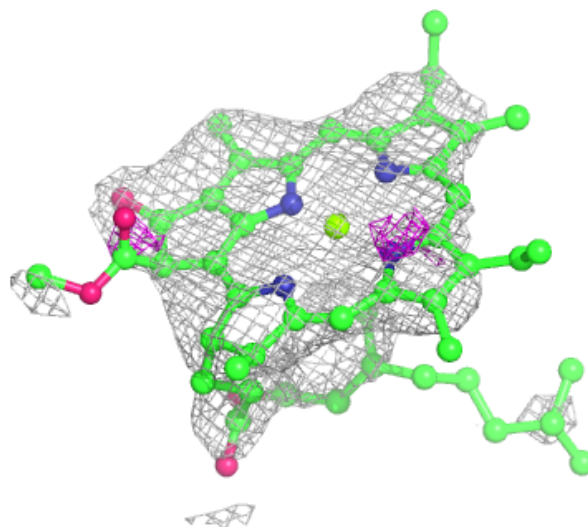
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





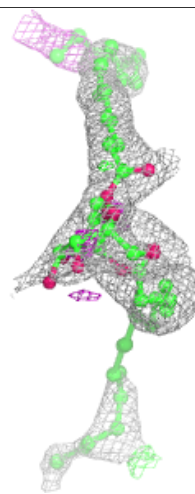
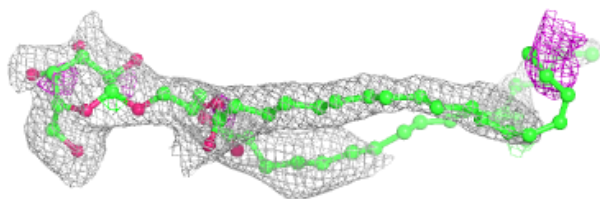
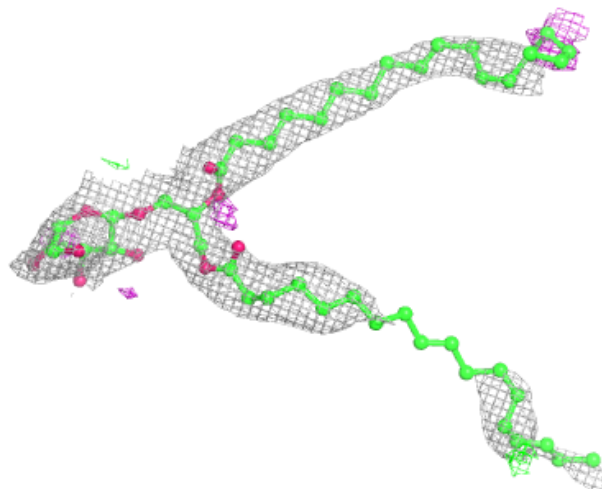
Electron density around CLA j 1303:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



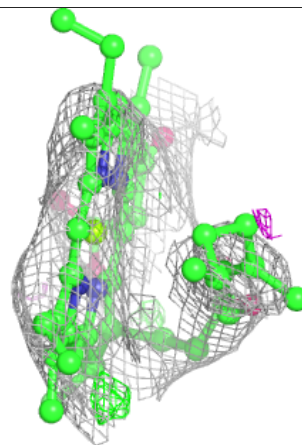
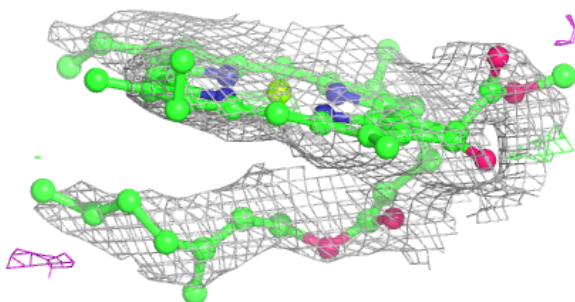
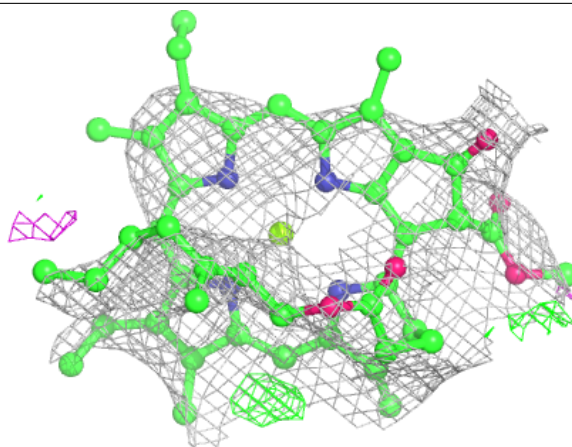
Electron density around LMG 0 5001:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

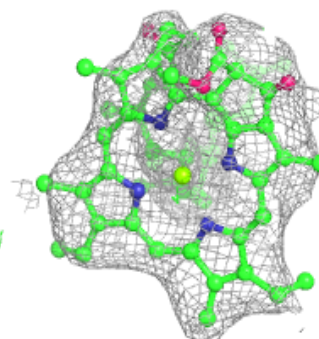
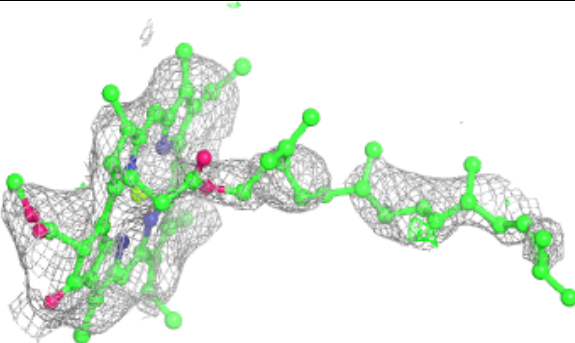
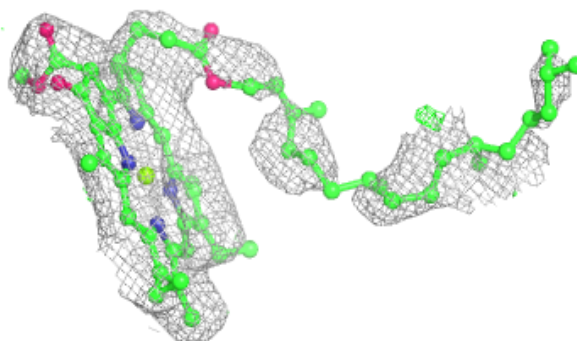


Electron density around CLA 2 1235:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

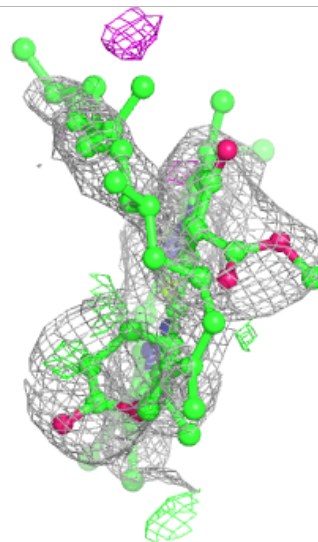
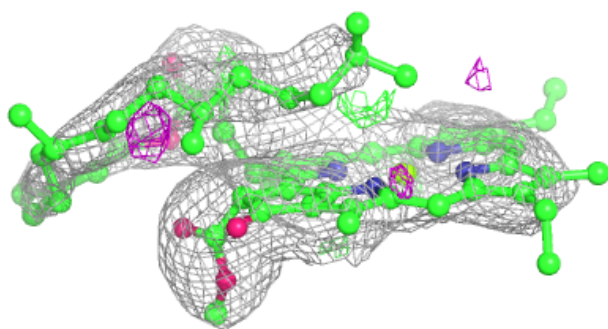
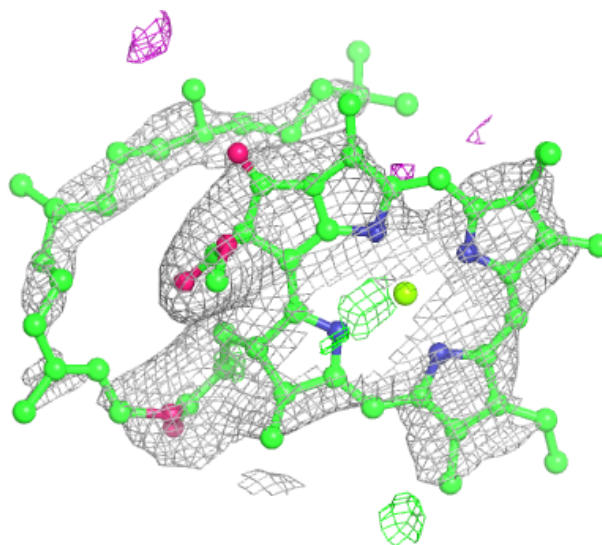
**Electron density around CLA 1 1120:**

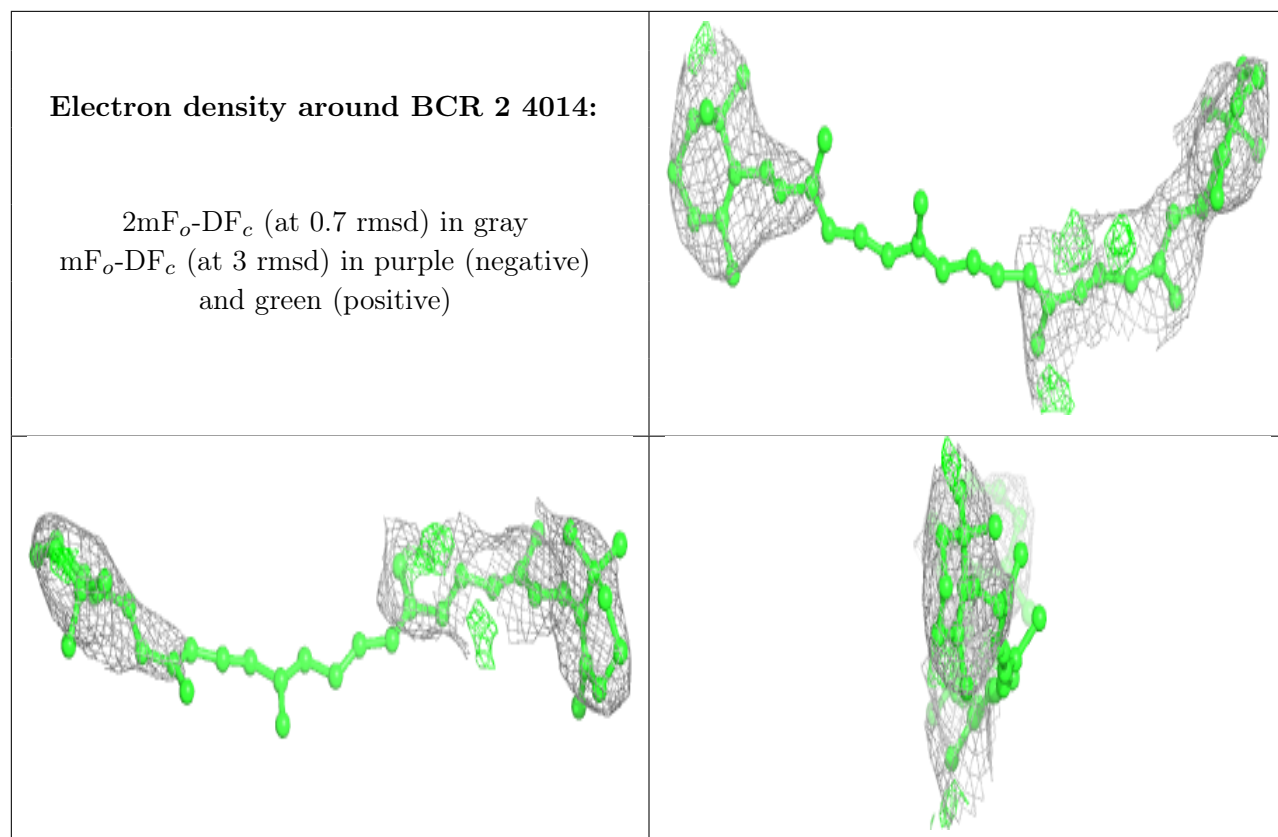
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA 2 1202:

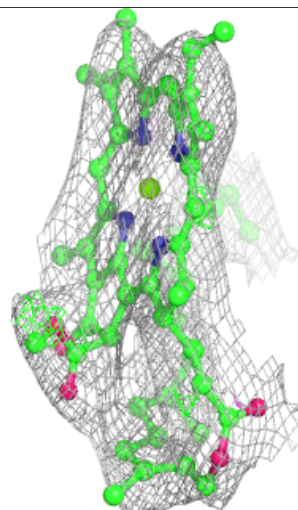
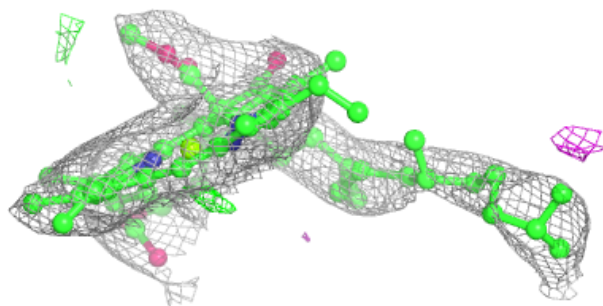
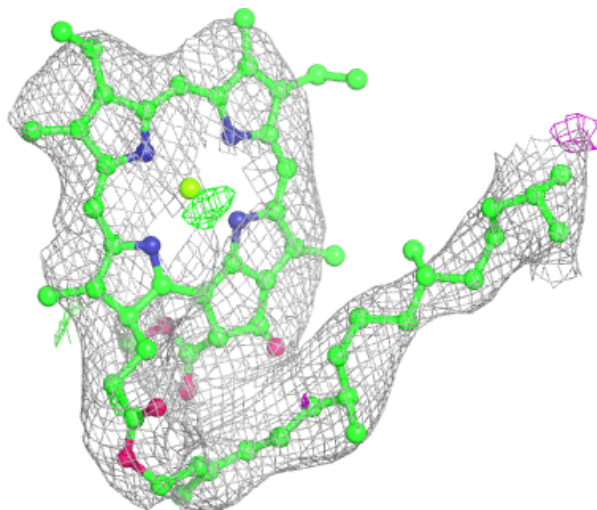
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

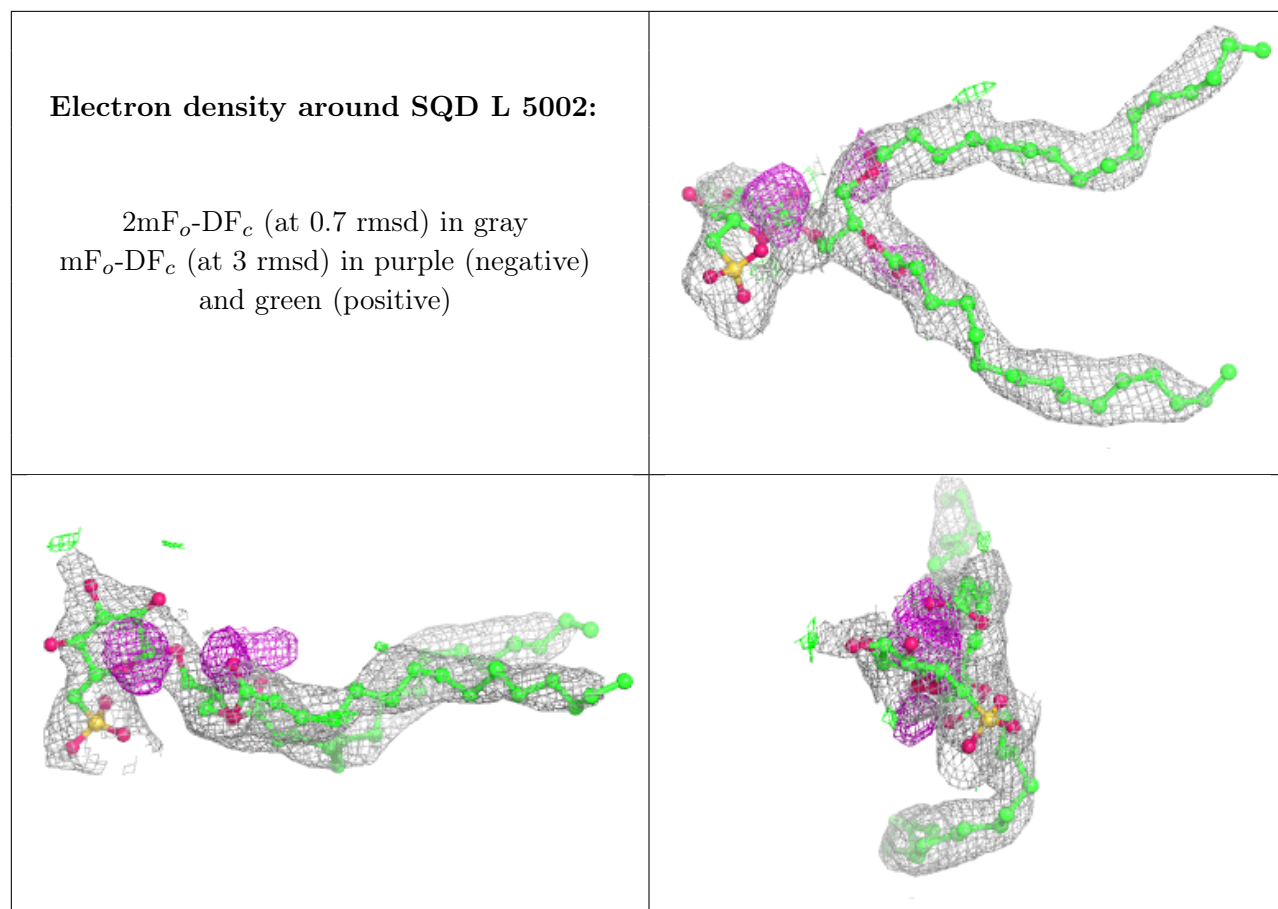




Electron density around CLA a 1123:

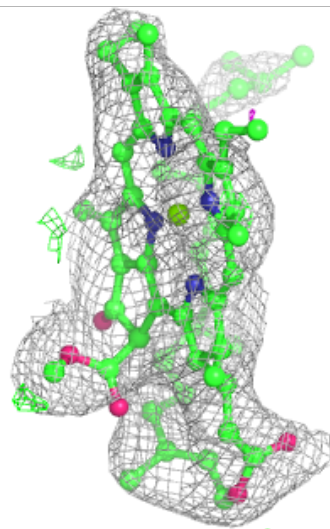
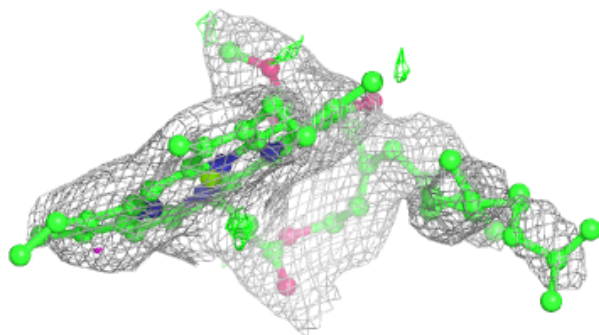
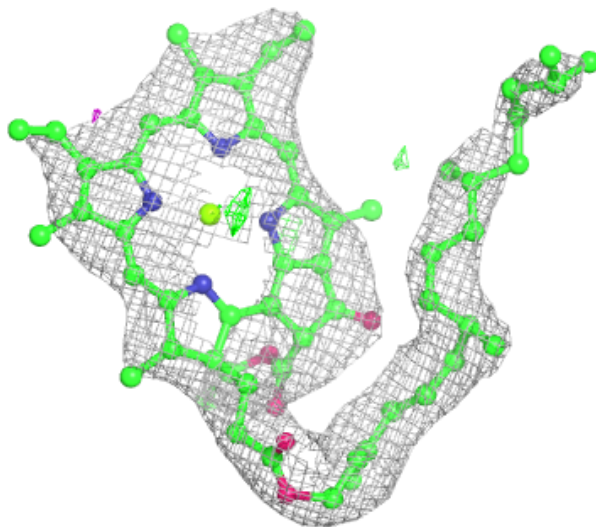
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





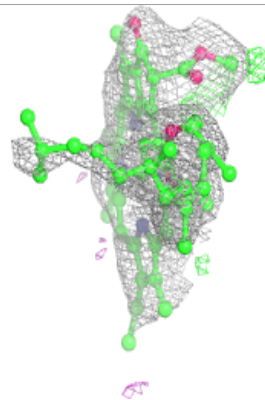
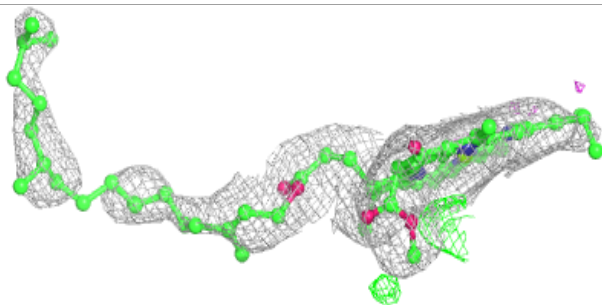
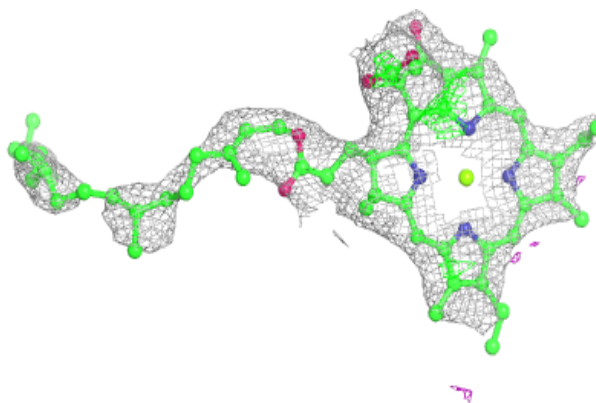
Electron density around CLA 1 1123:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



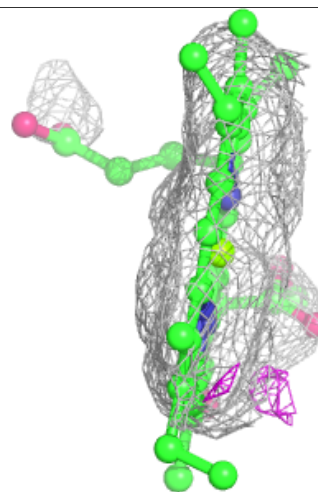
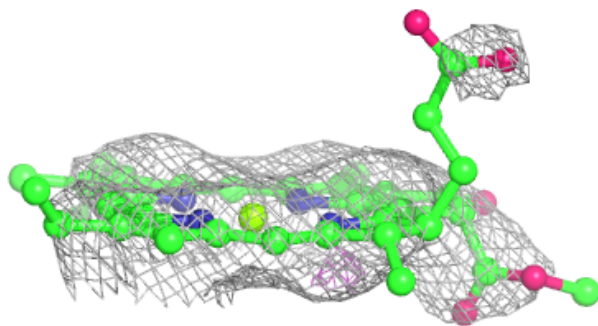
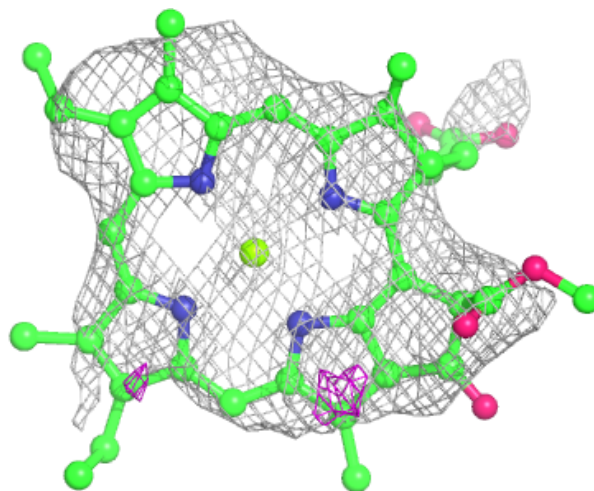
Electron density around CLA 1 1103:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



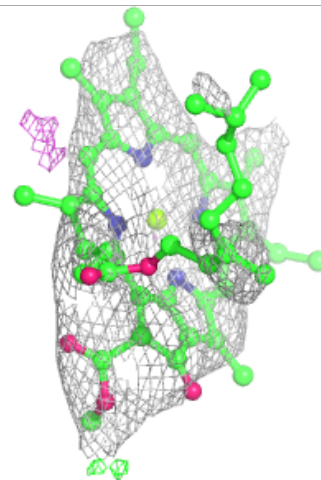
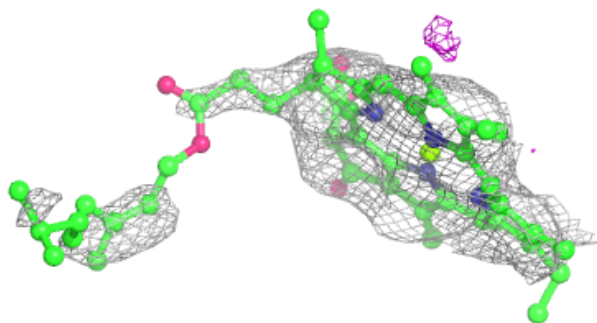
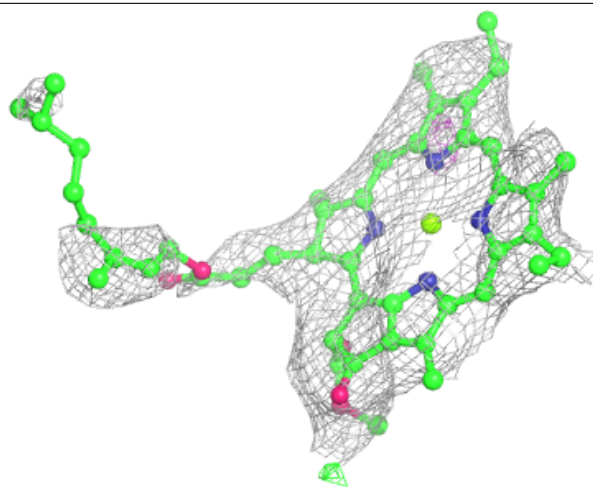
Electron density around CLA 1 1114:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



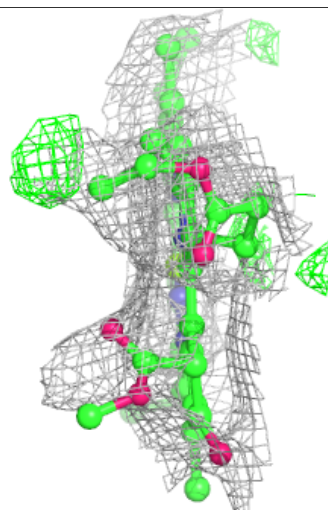
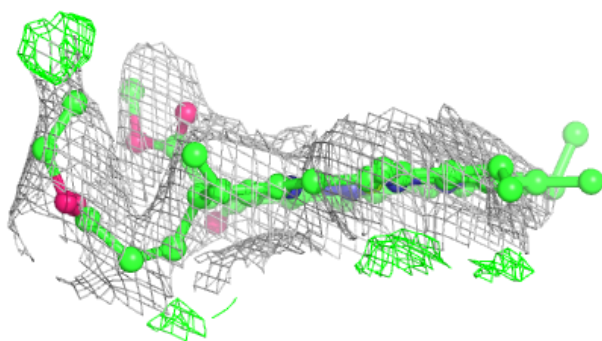
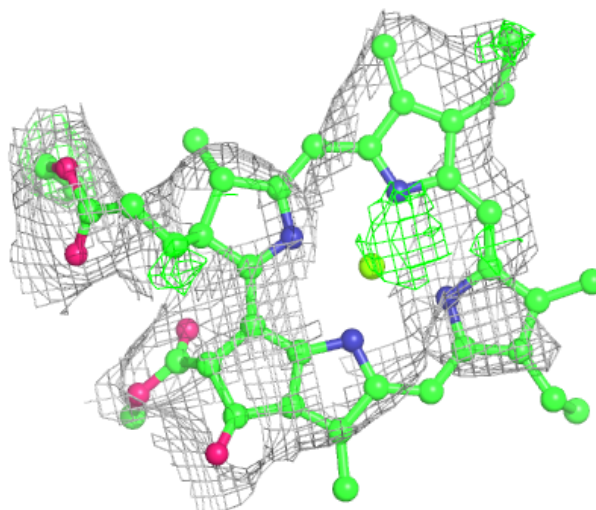
Electron density around CLA a 1801:

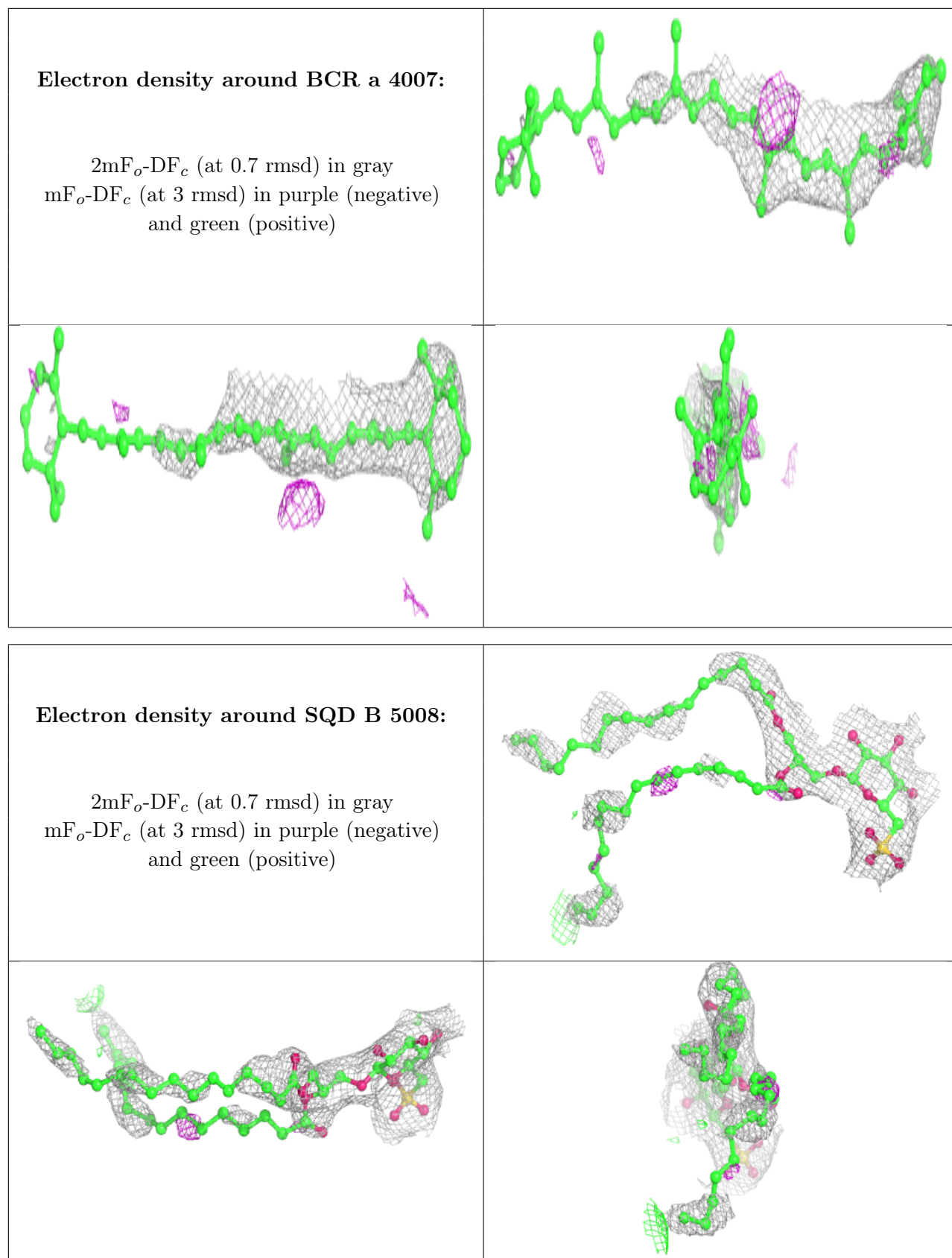
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA 6 1301:

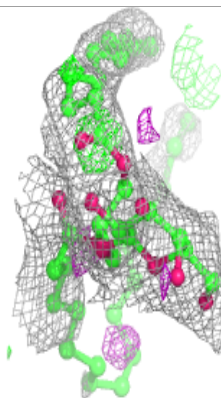
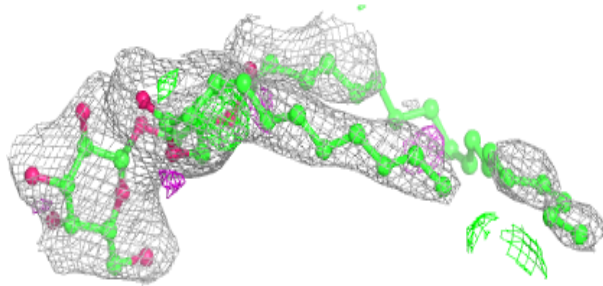
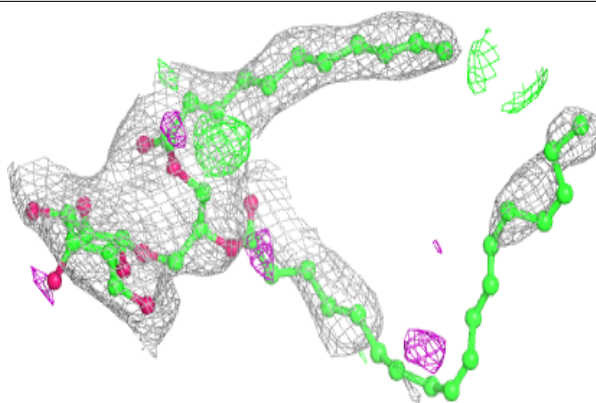
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



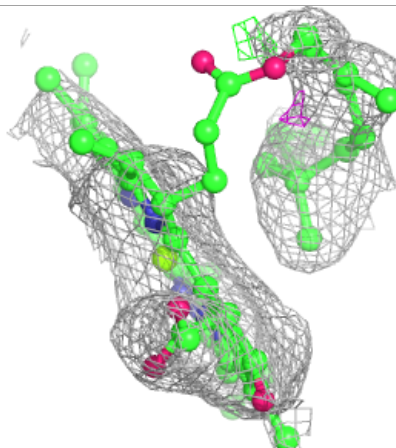
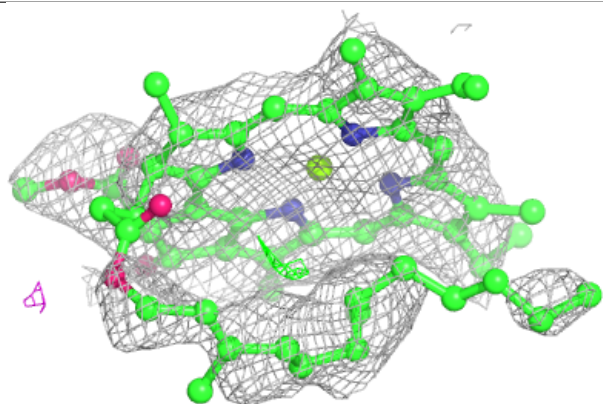
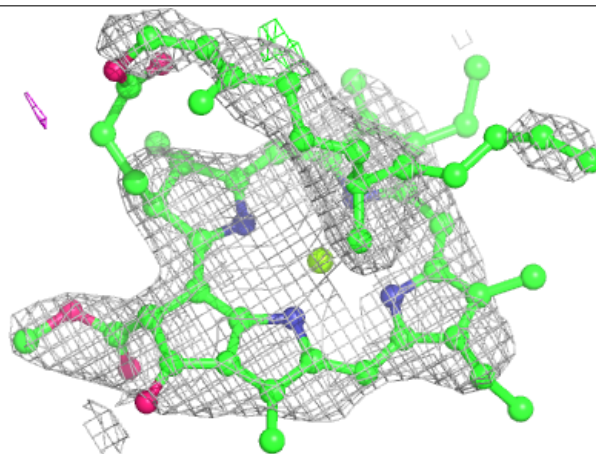


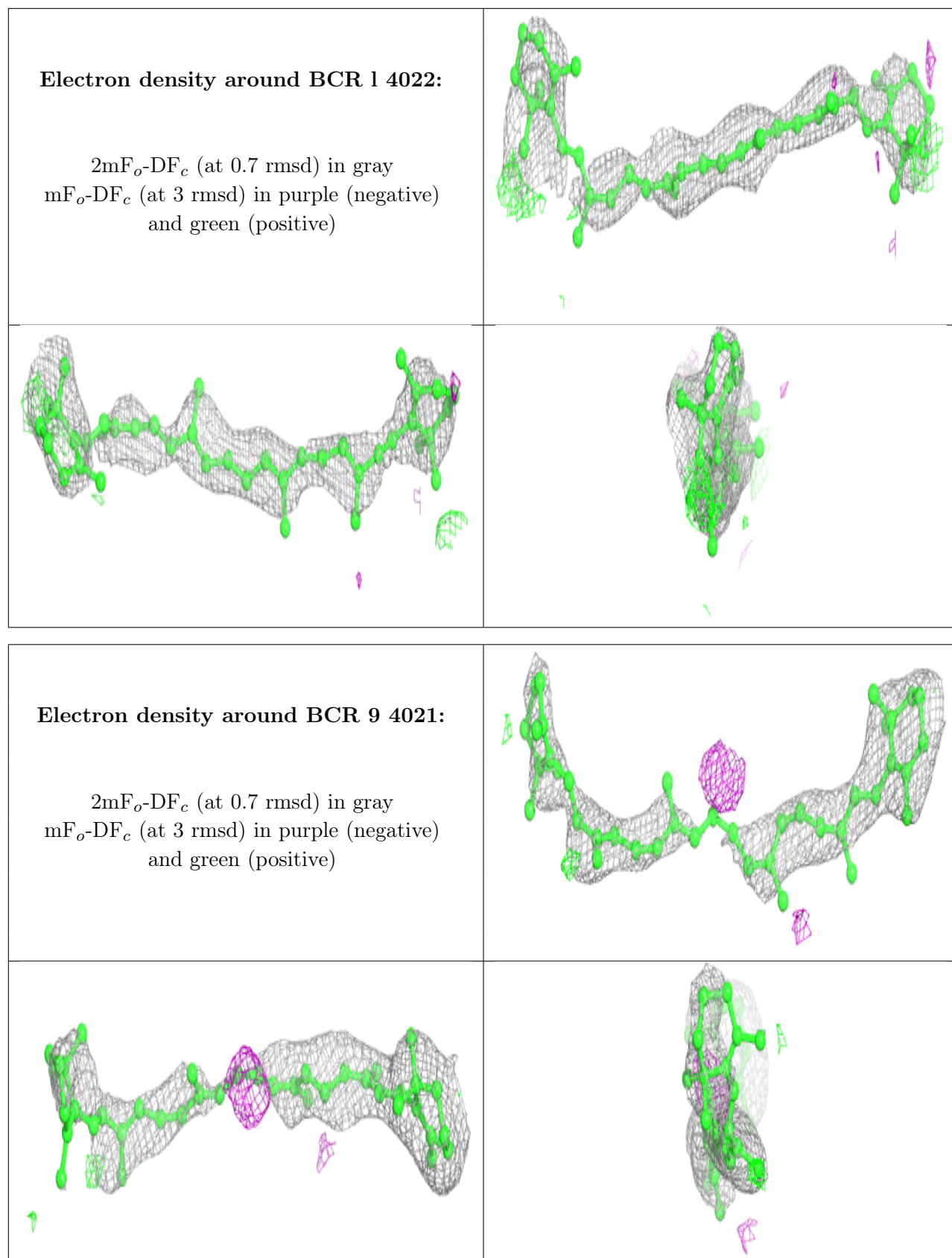
Electron density around LMG A 5004:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around CLA 2 1214:**

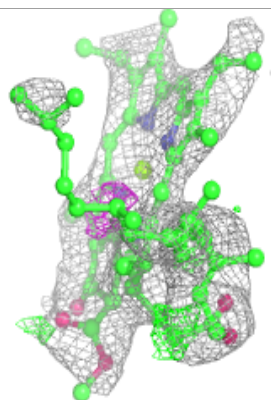
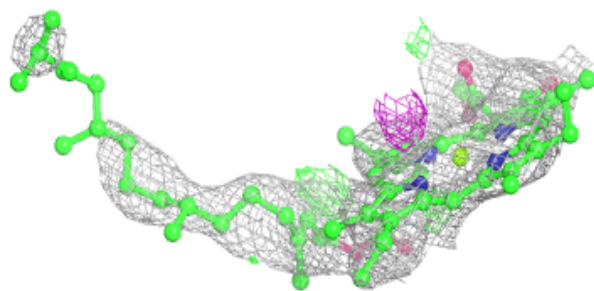
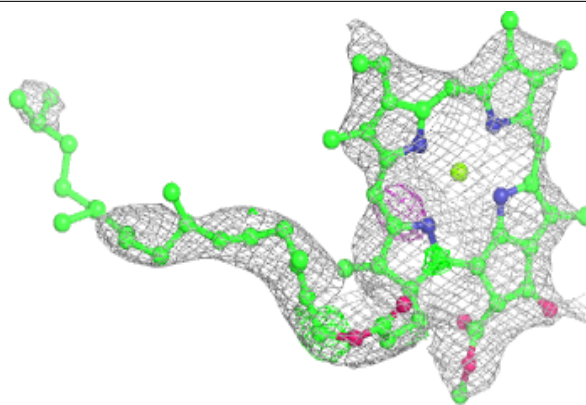
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



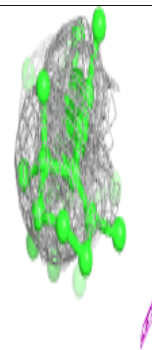
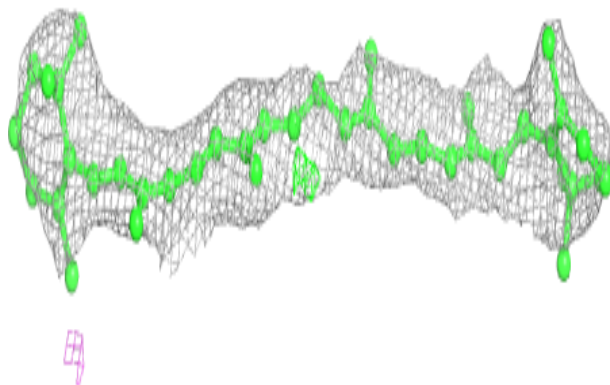
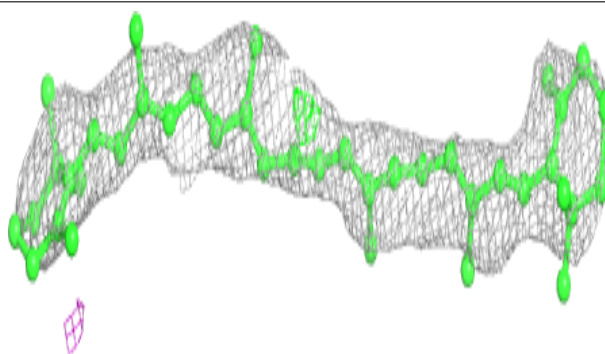


Electron density around CLA 1 1013:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

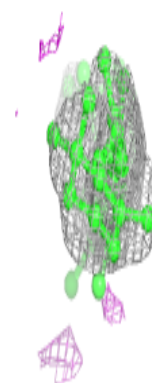
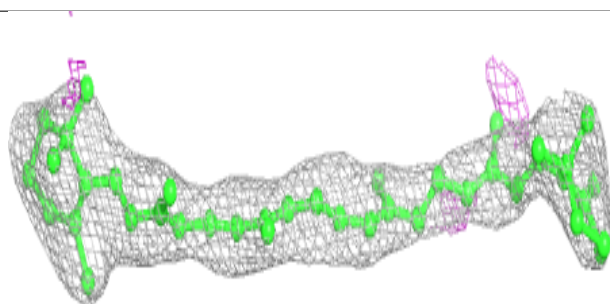
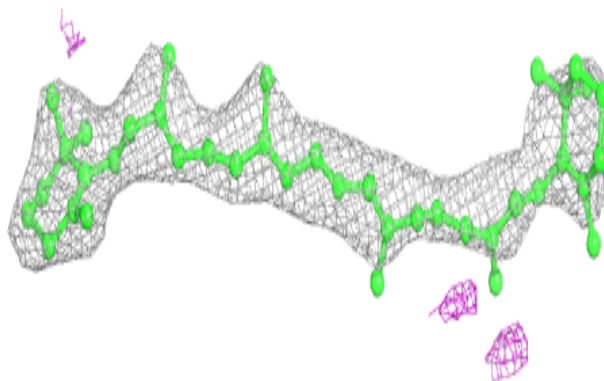
**Electron density around BCR 1 4002:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

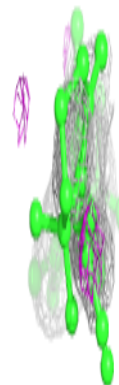
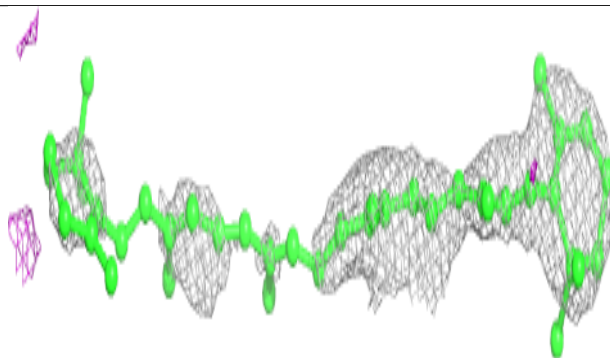
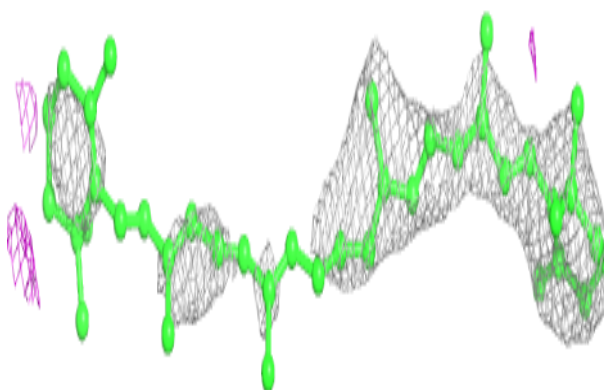


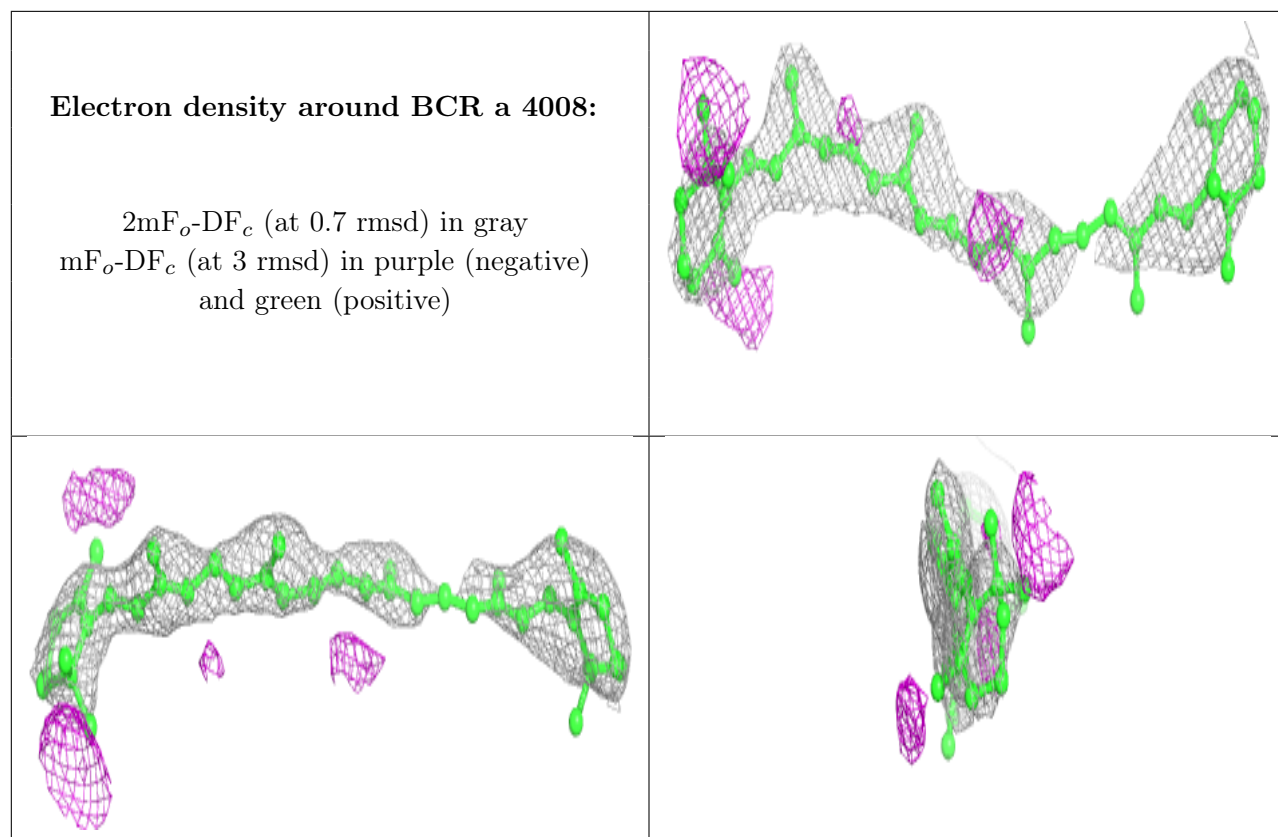
Electron density around BCR A 4003:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around BCR 1 4007:**

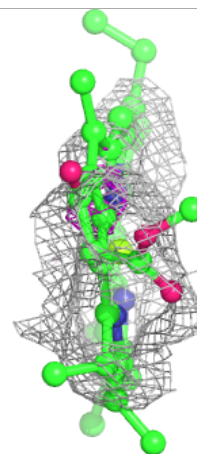
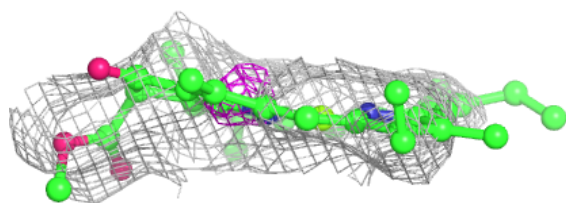
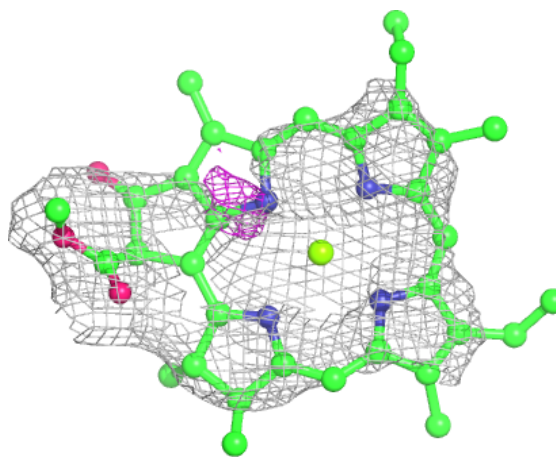
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





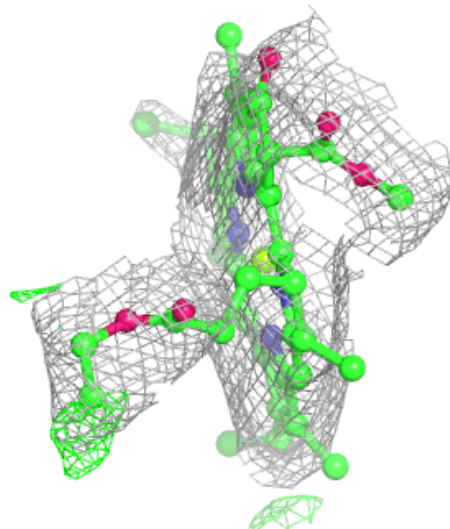
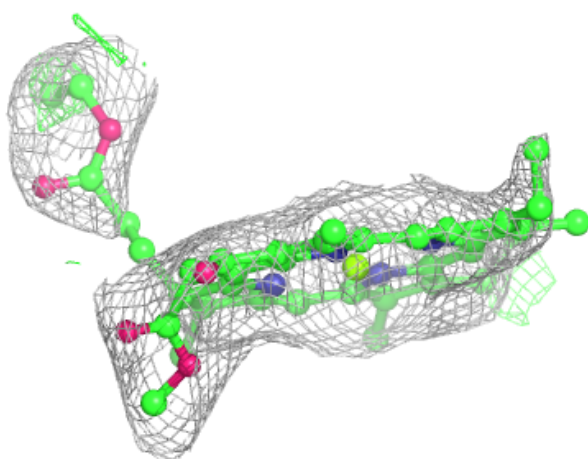
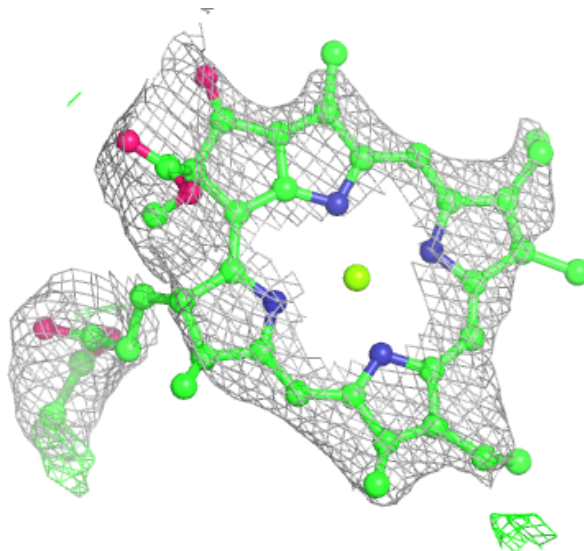
Electron density around CLA 7 1302:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



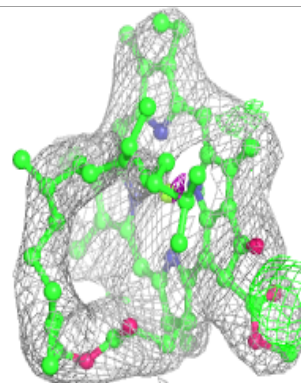
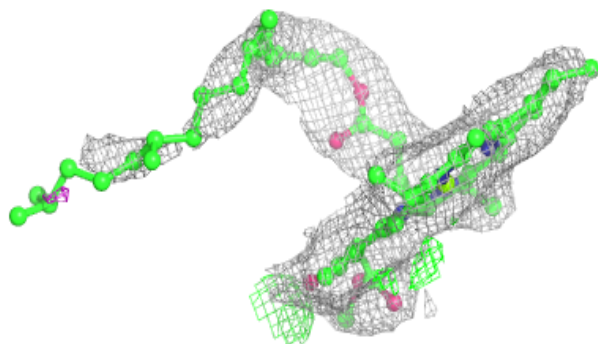
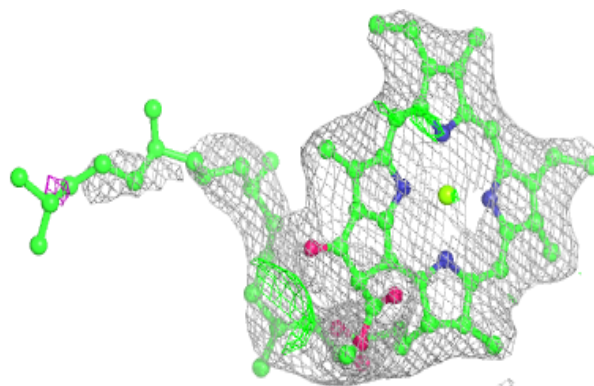
Electron density around CLA 2 1230:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

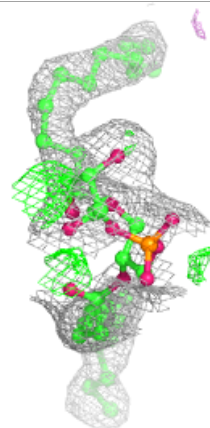
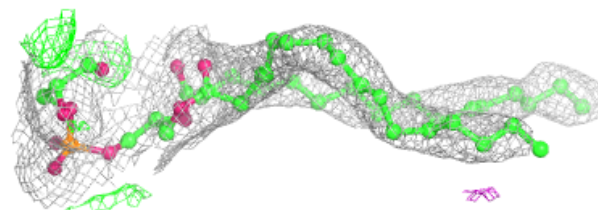
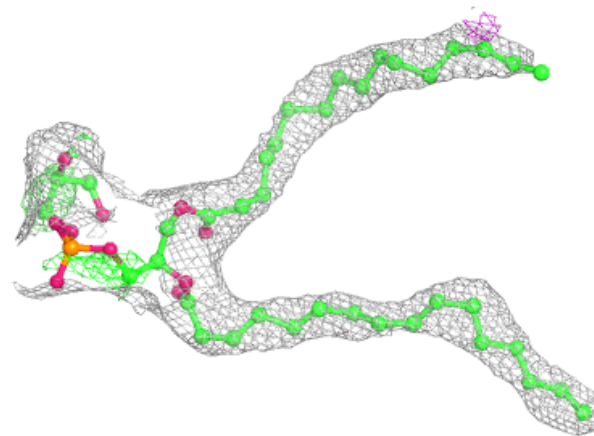


Electron density around CLA b 1231:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

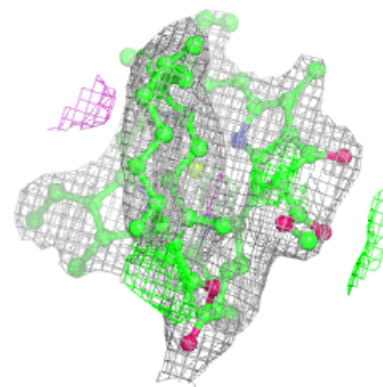
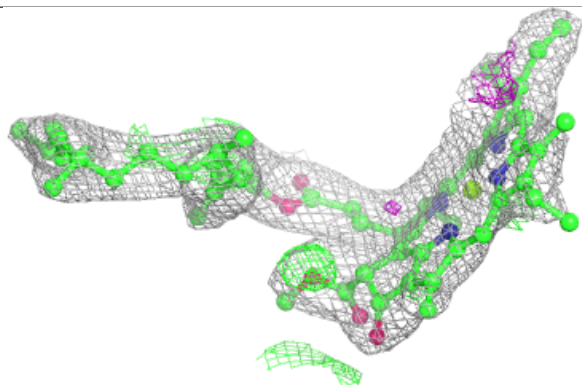
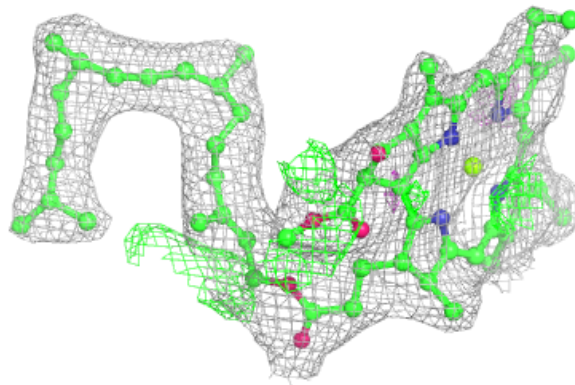
**Electron density around LHG 0 5002:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

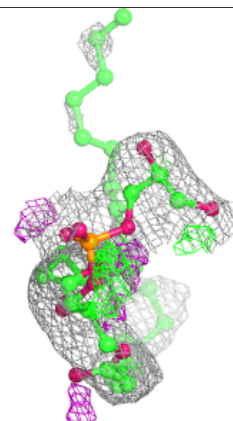
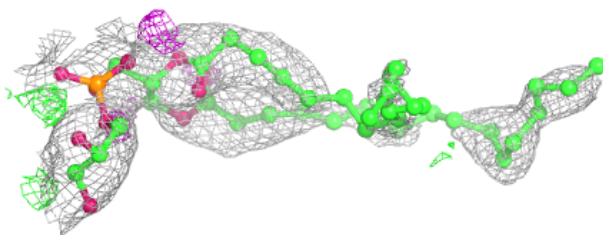
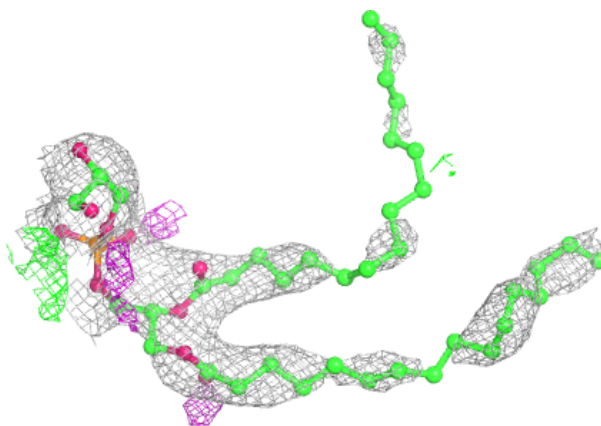


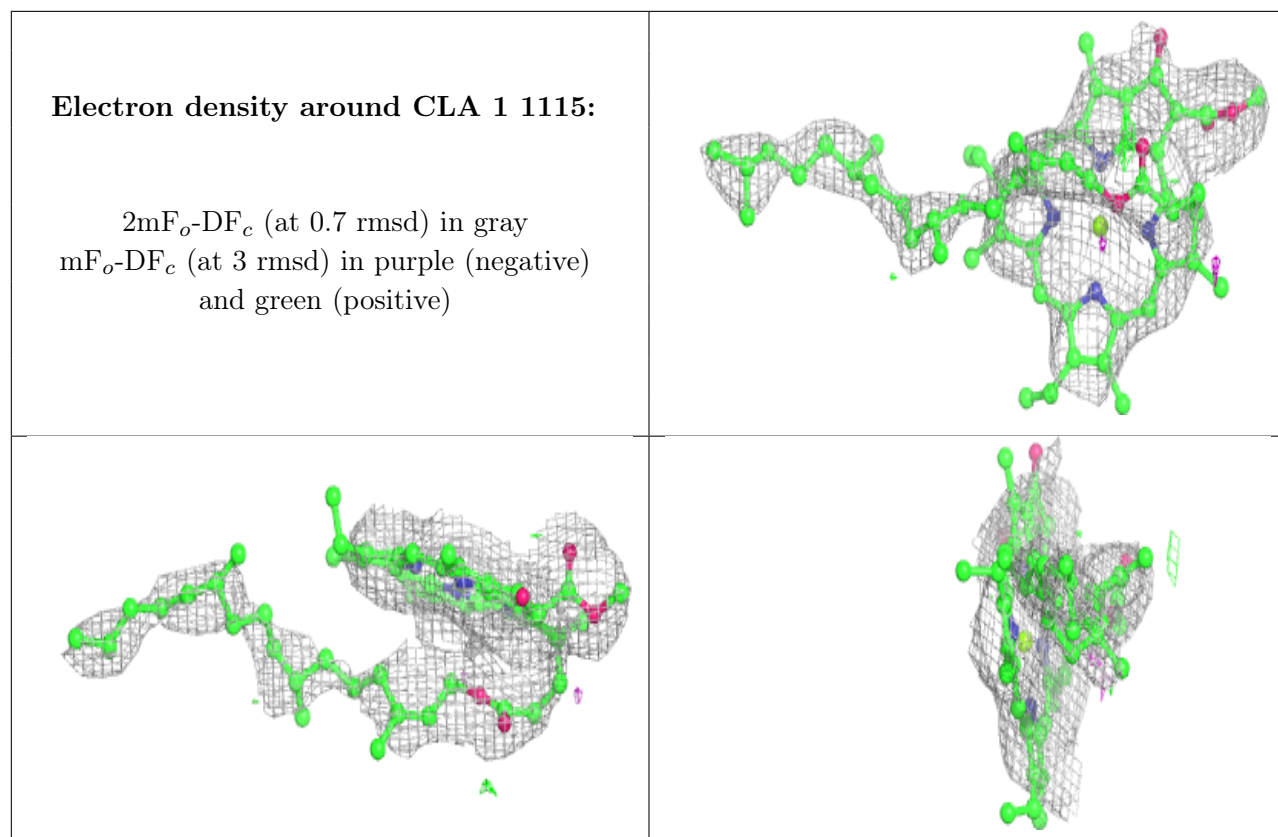
Electron density around CLA a 1011:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around LHG B 5004:**

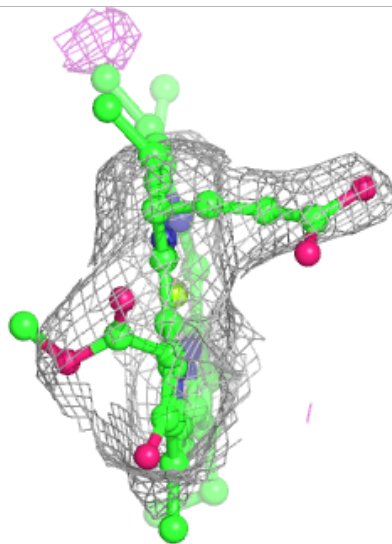
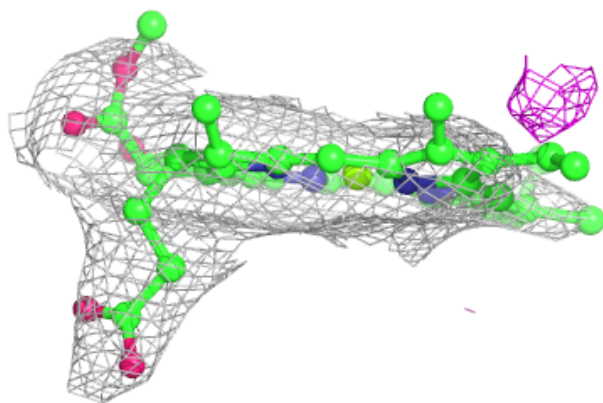
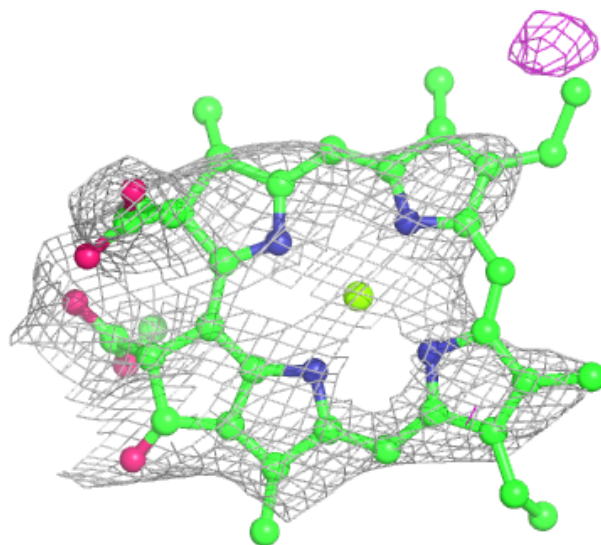
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

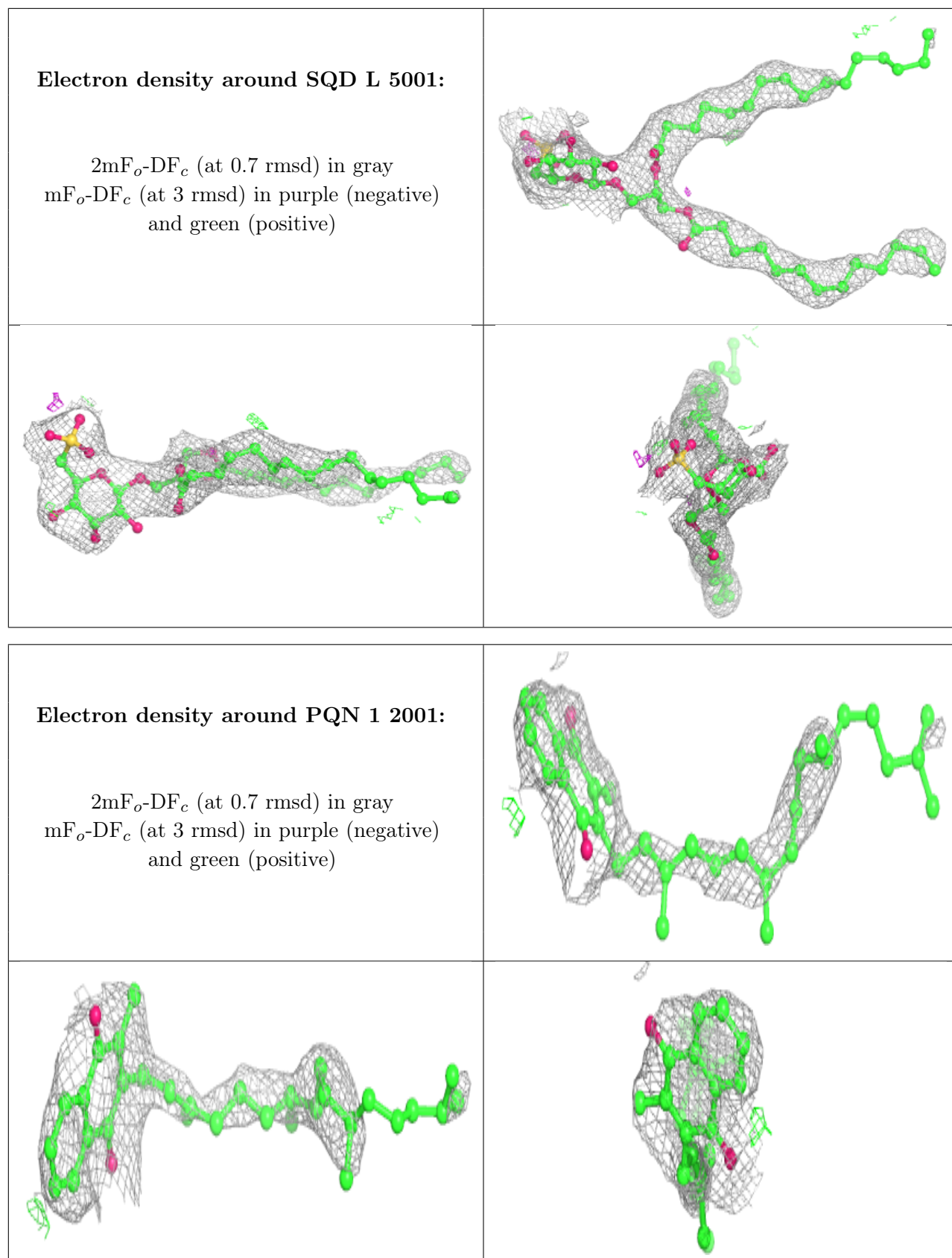




Electron density around CLA 2 1220:

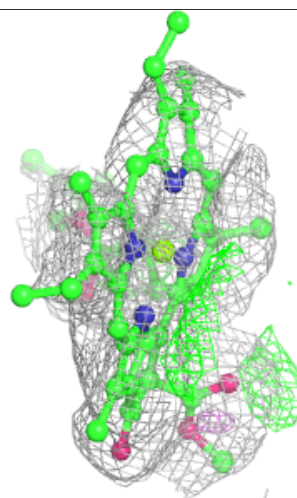
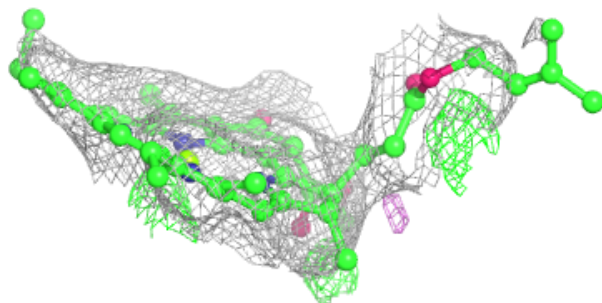
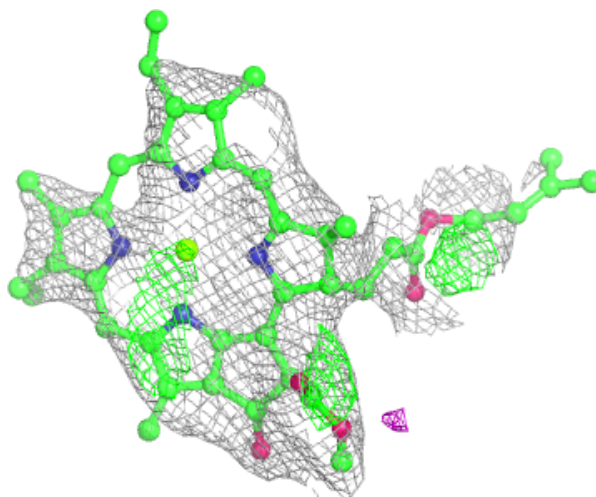
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

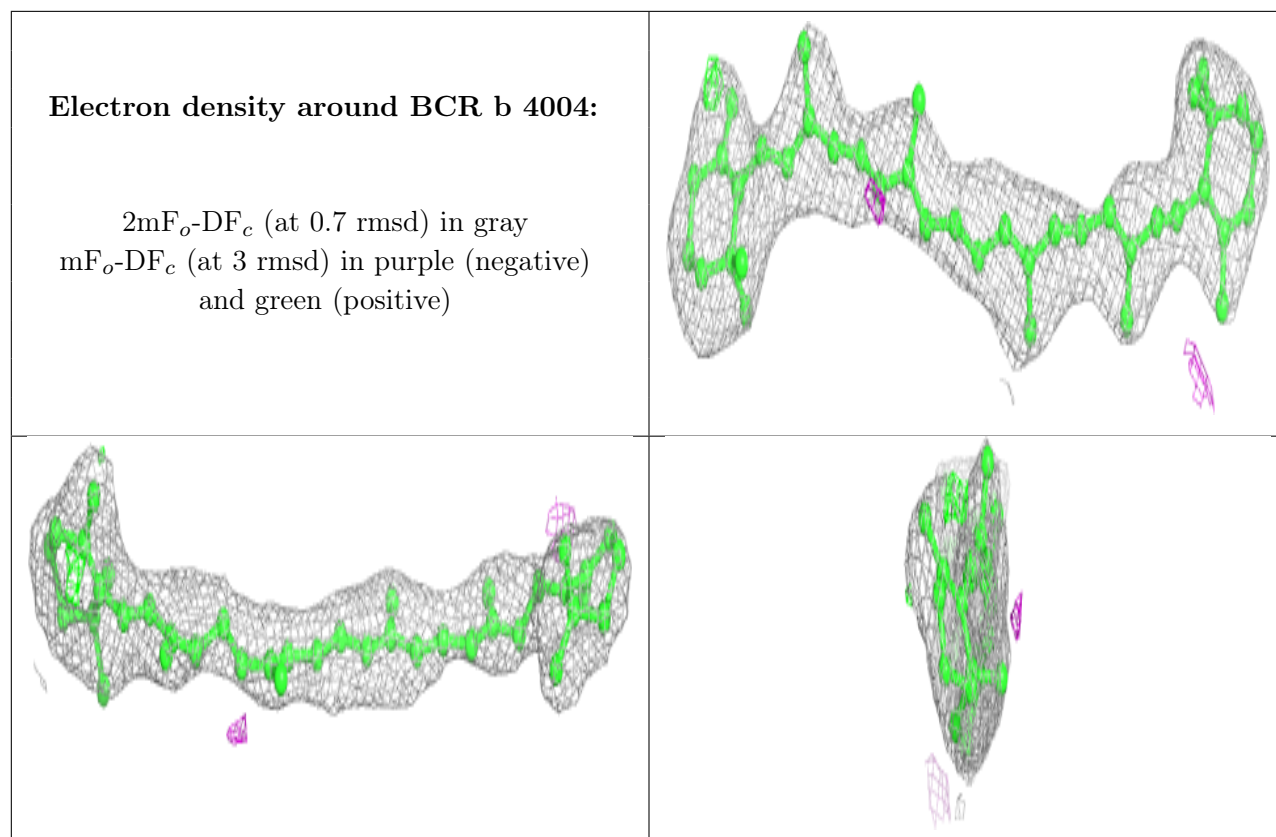




Electron density around CLA 2 1222:

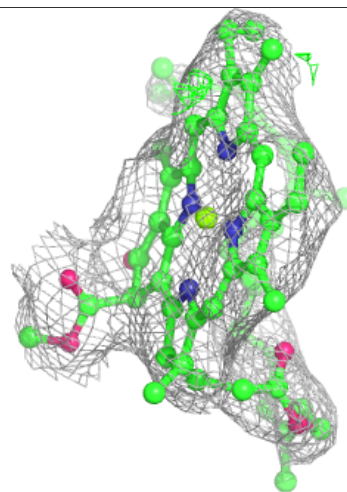
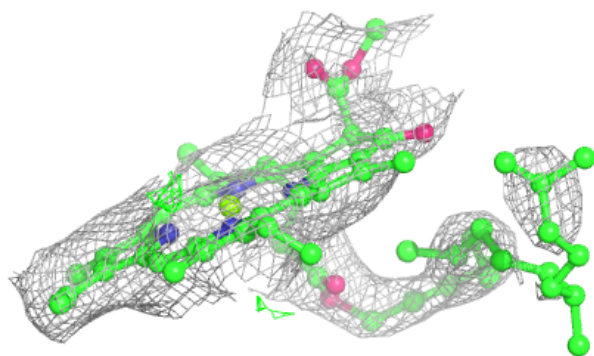
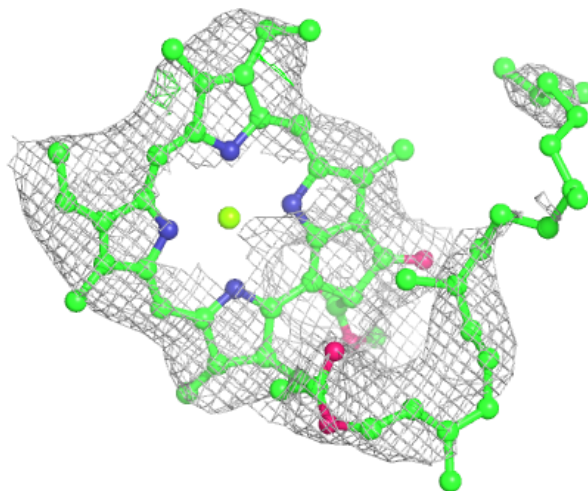
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





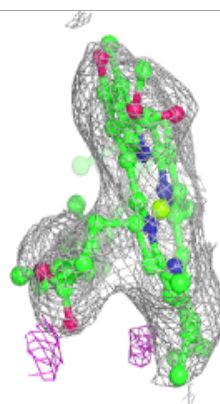
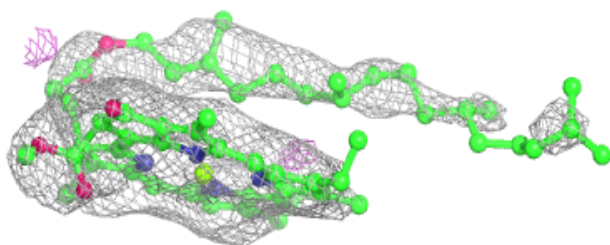
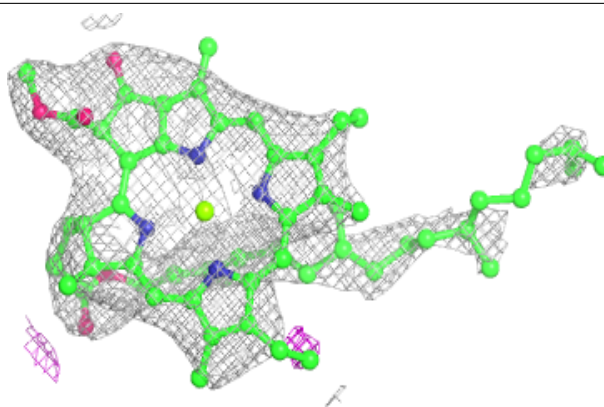
Electron density around CLA 2 1229:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

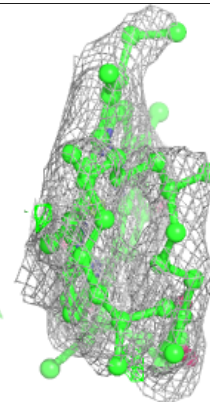
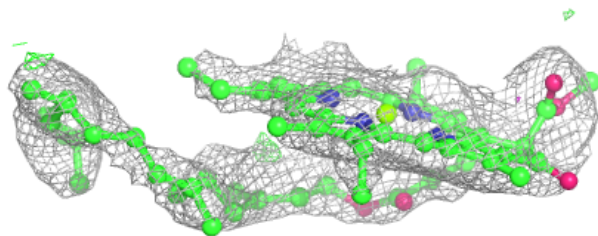
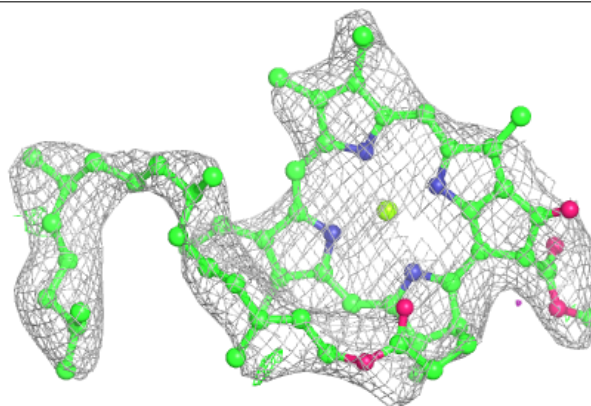


Electron density around CLA 1 1116:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

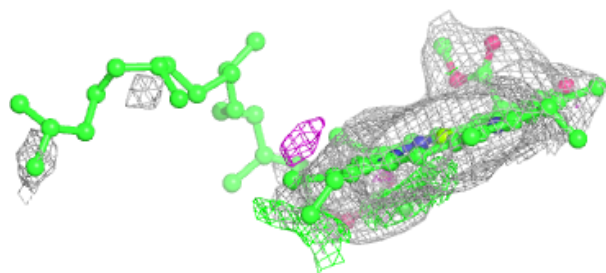
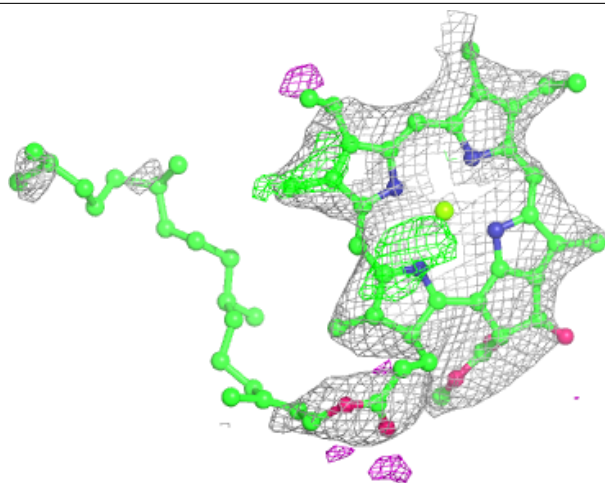
**Electron density around CLA 1 1117:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



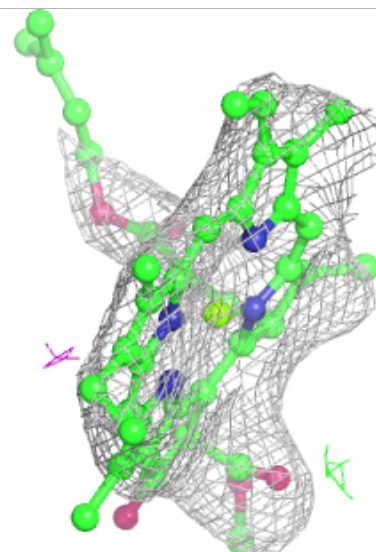
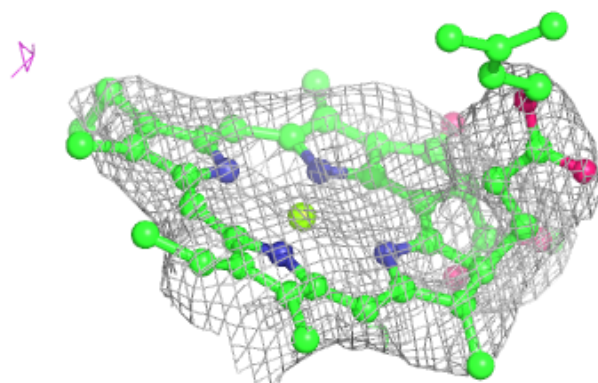
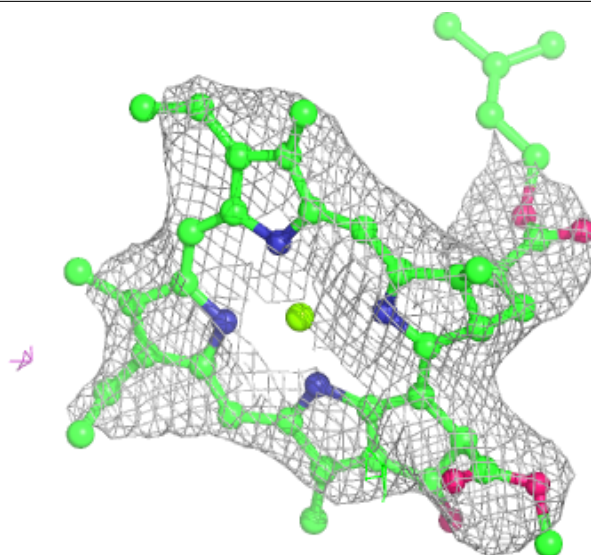
Electron density around CLA a 1111:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



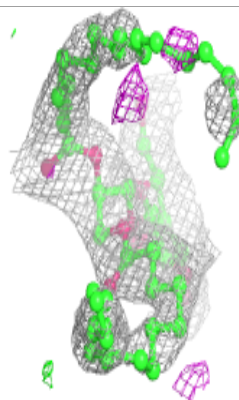
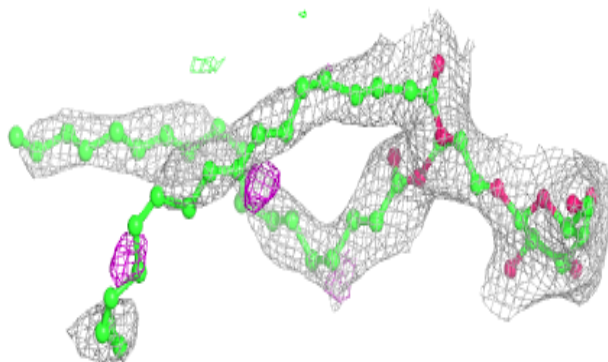
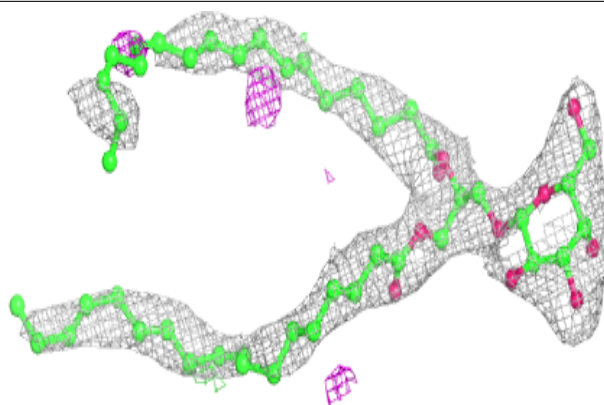
Electron density around CLA B 1232:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

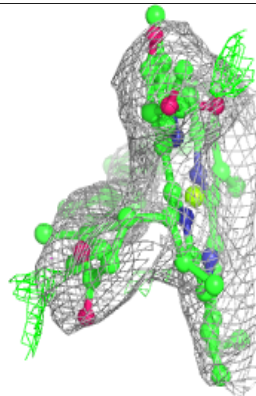
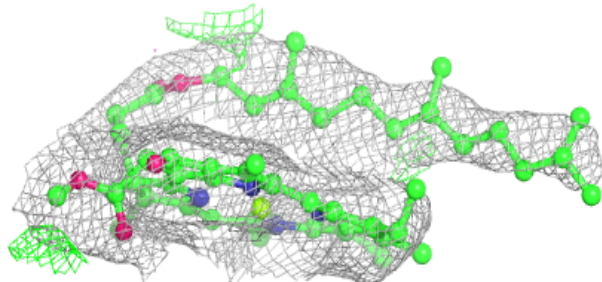
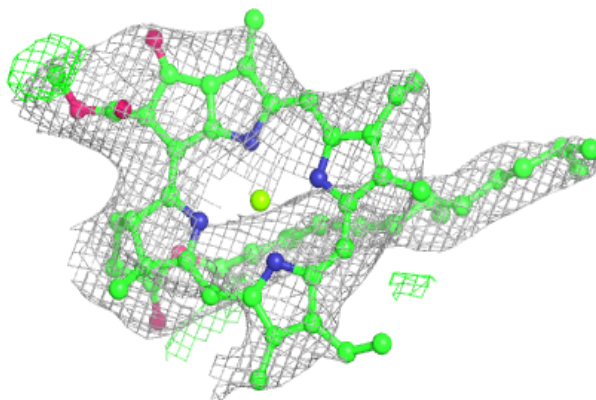


Electron density around LMG 2 5002:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

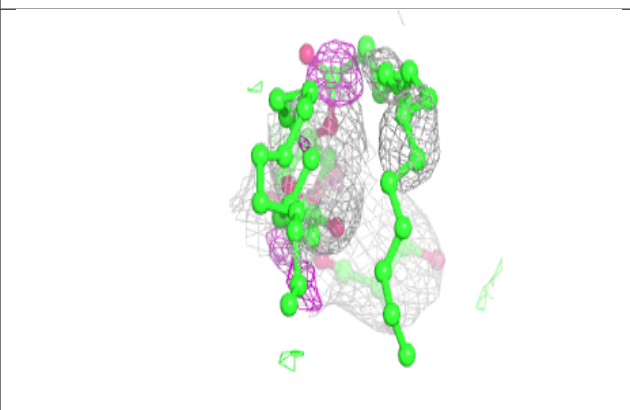
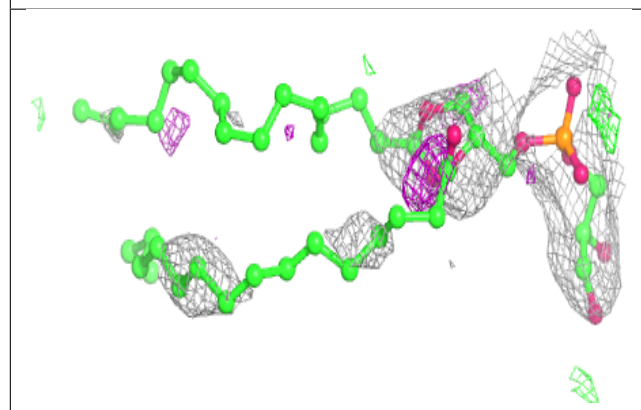
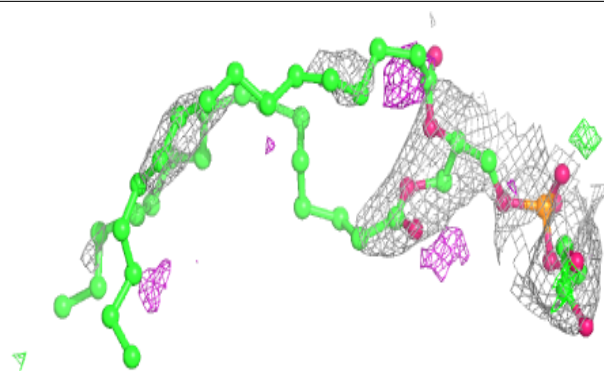
**Electron density around CLA a 1116:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

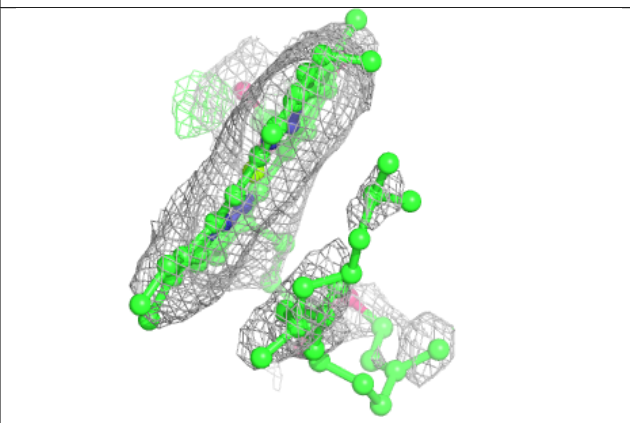
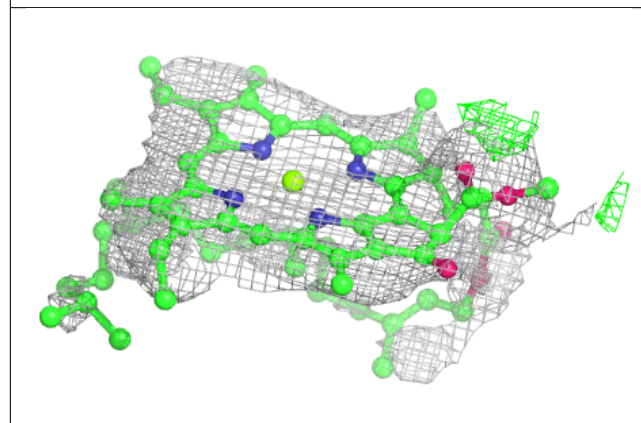
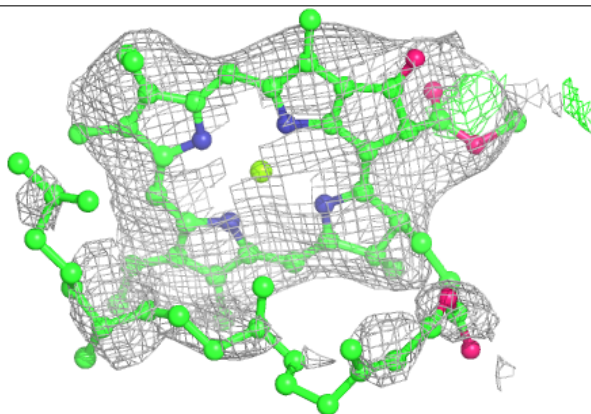


Electron density around LHG a 5003:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

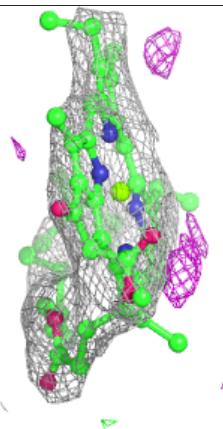
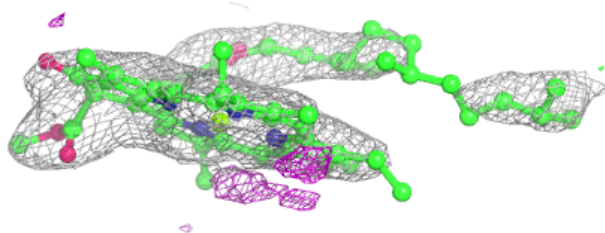
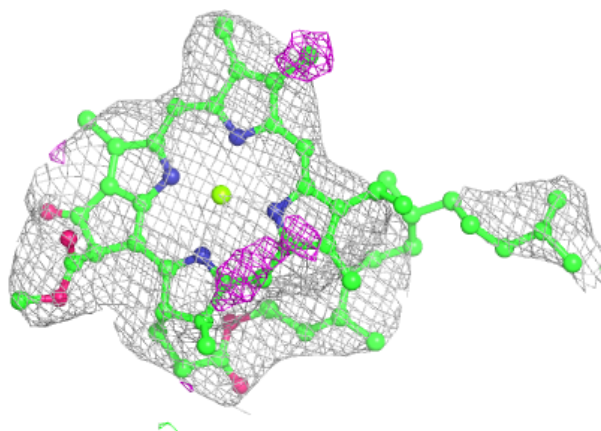
**Electron density around CLA 1 1118:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



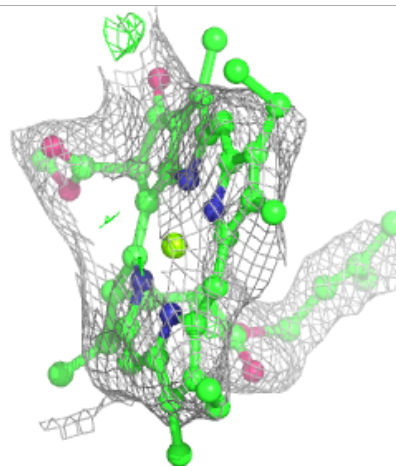
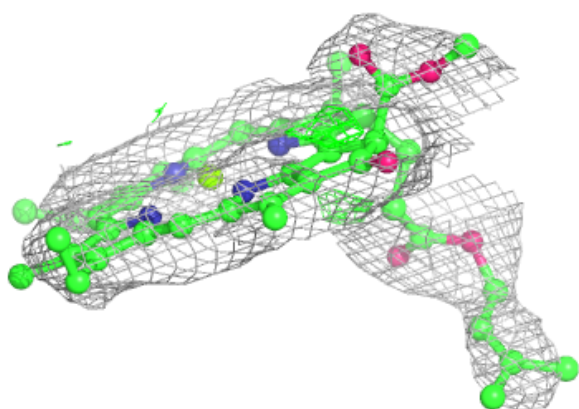
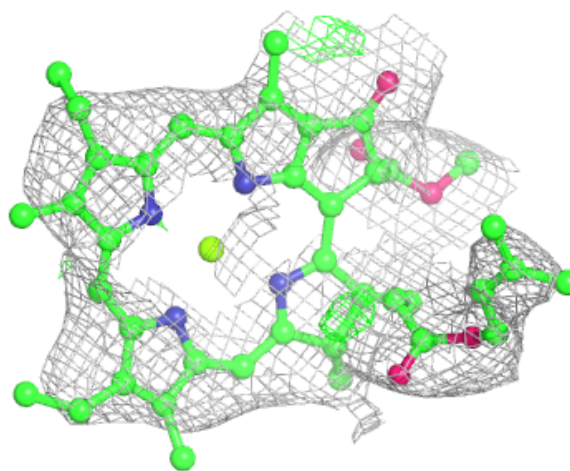
Electron density around CLA 2 1215:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



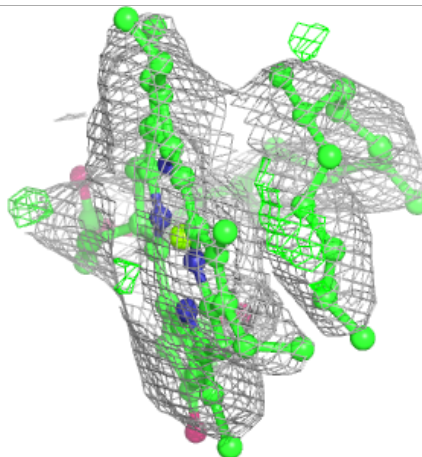
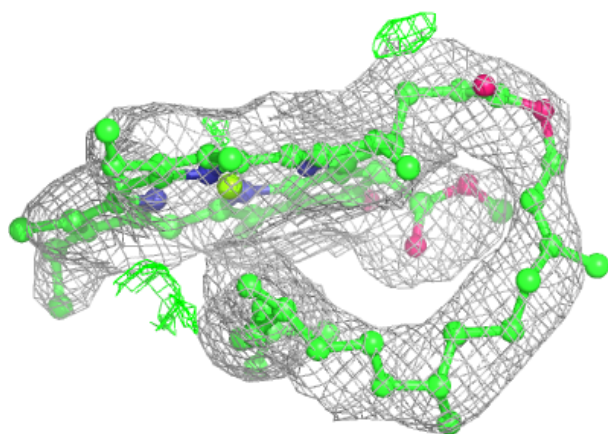
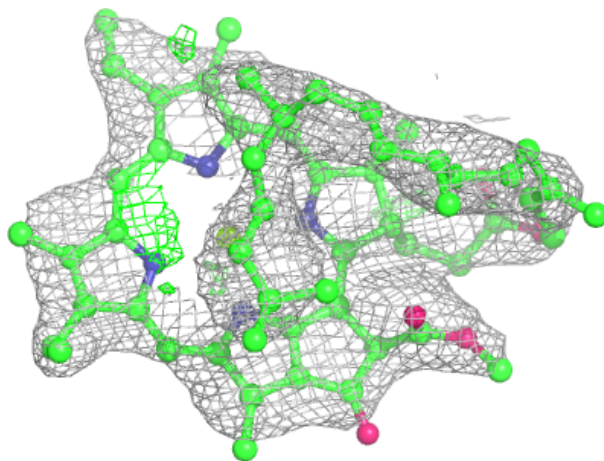
Electron density around CLA 2 1236:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



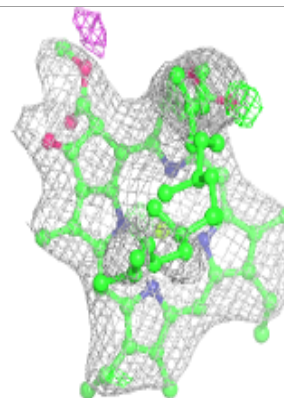
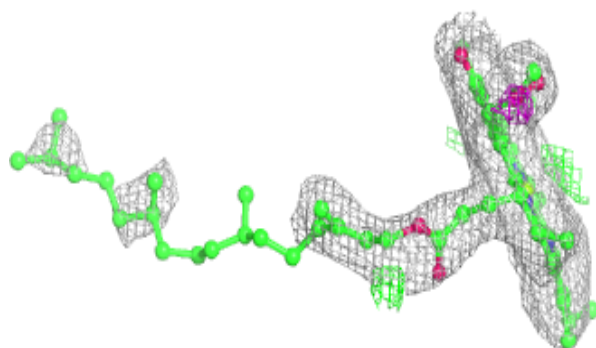
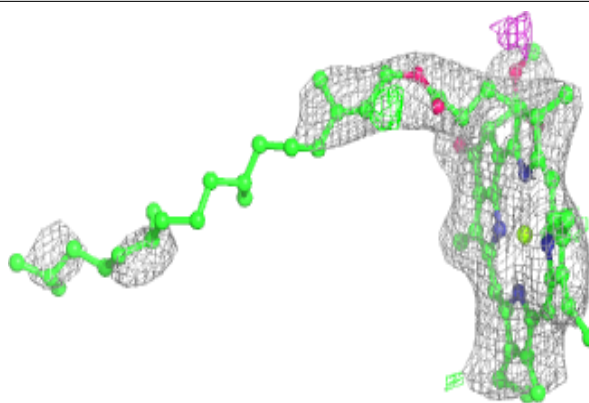
Electron density around CLA 1 1104:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

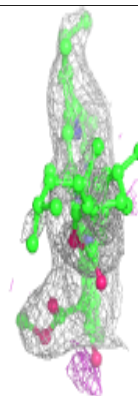
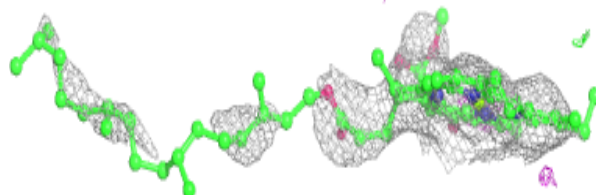
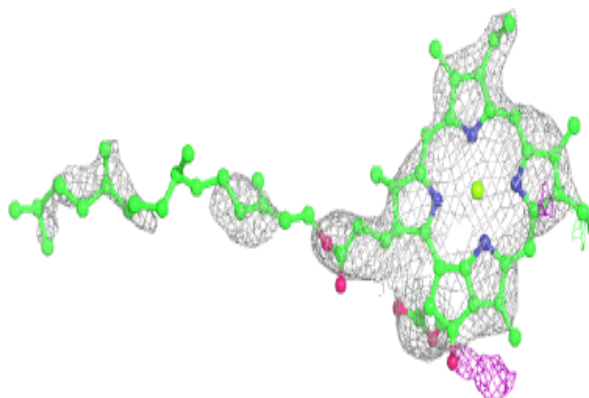


Electron density around CLA b 1236:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

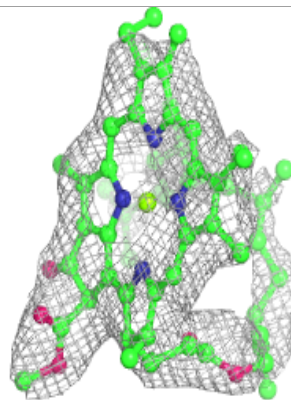
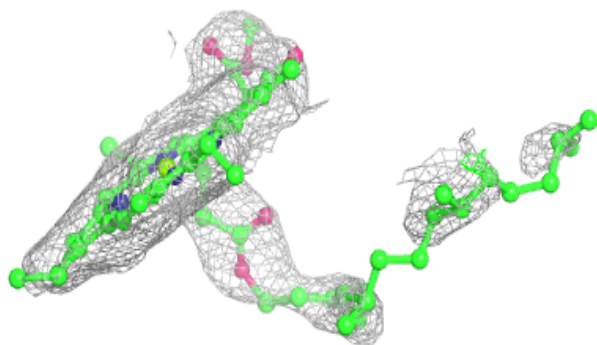
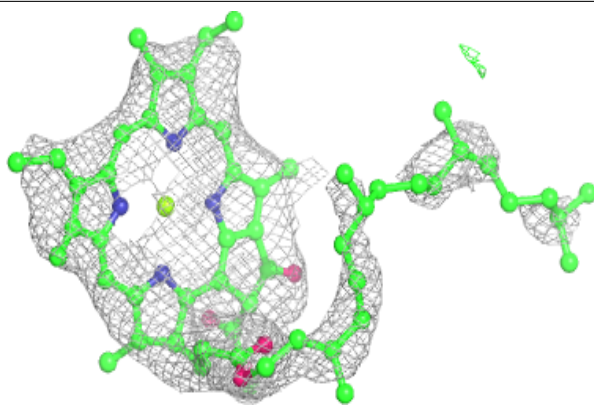
**Electron density around CLA f 1302:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

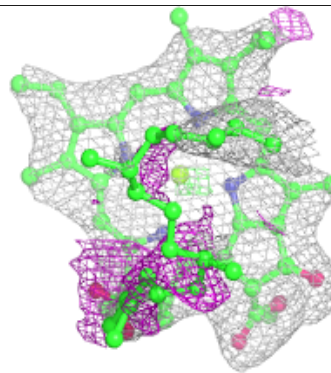
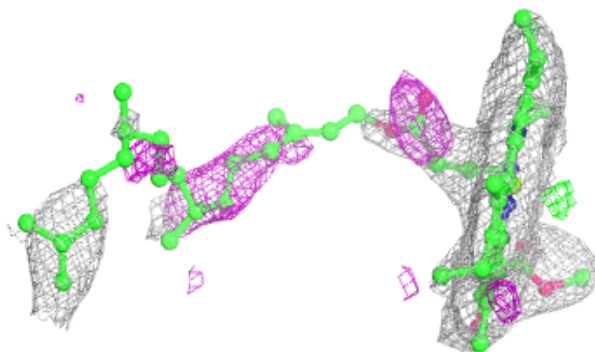
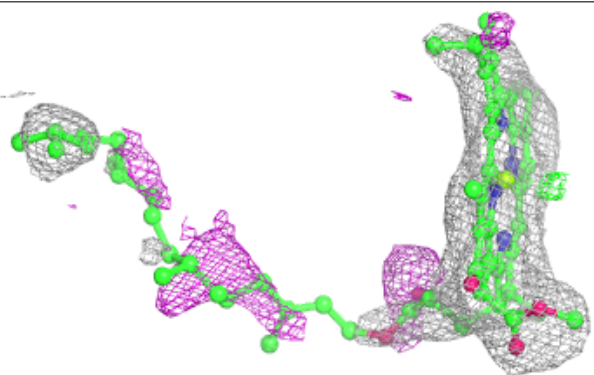


Electron density around CLA B 1231:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

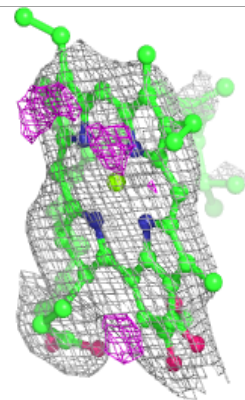
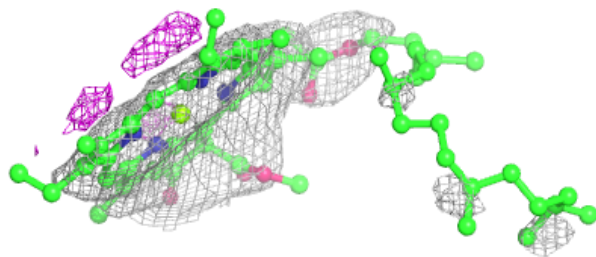
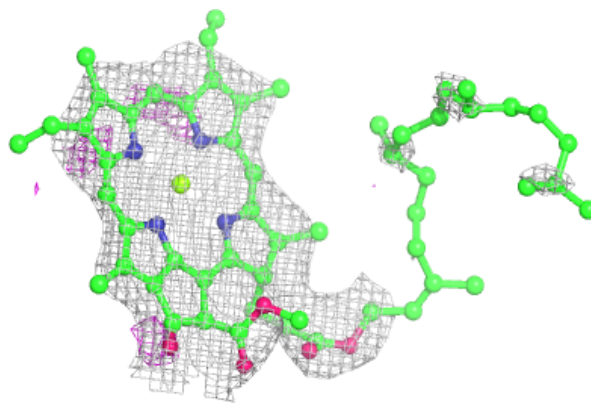
**Electron density around CLA A 1113:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

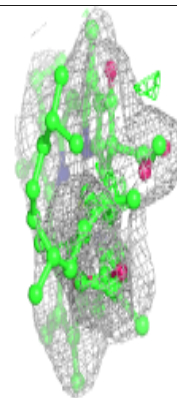
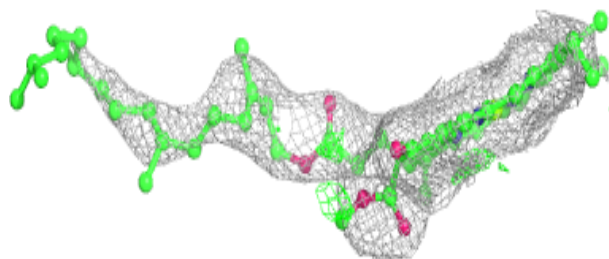
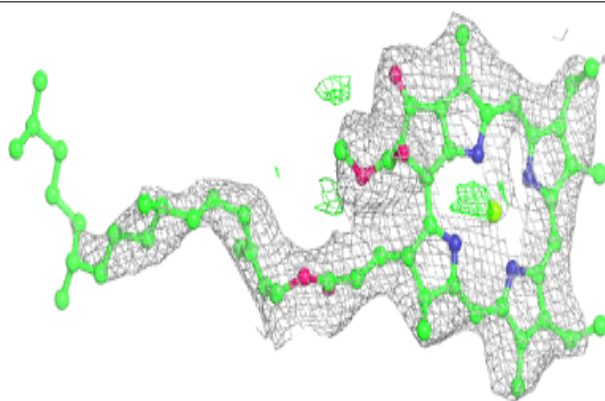


Electron density around CLA 2 1221:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

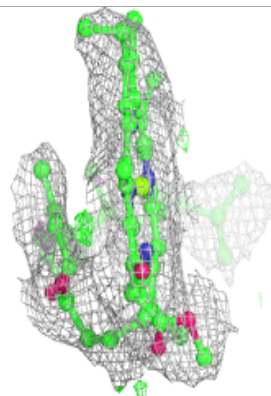
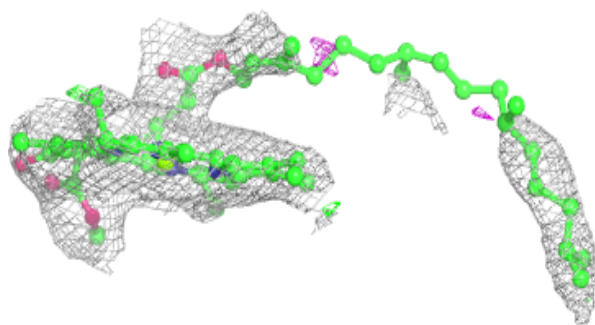
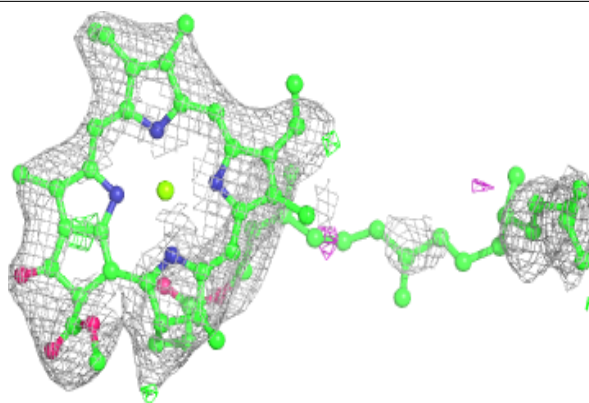
**Electron density around CLA a 1139:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

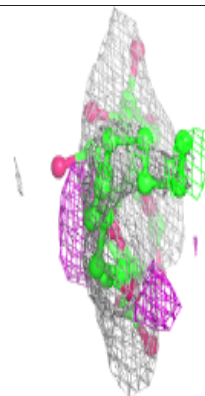
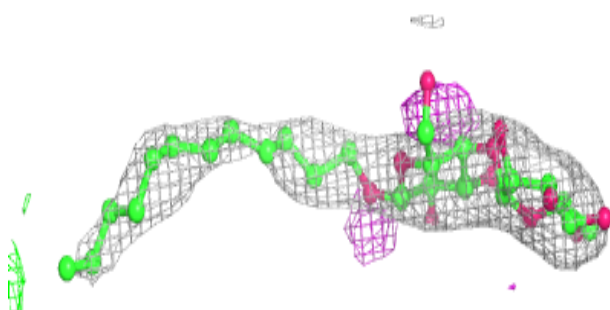
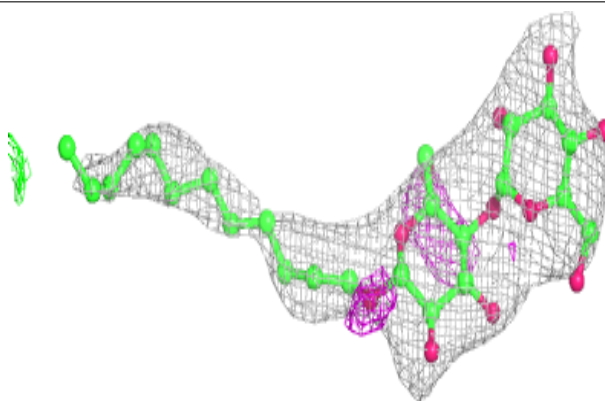


Electron density around CLA B 1209:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

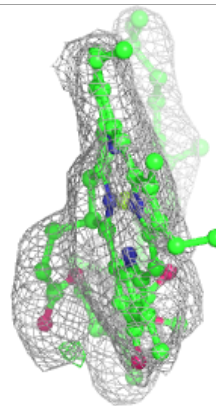
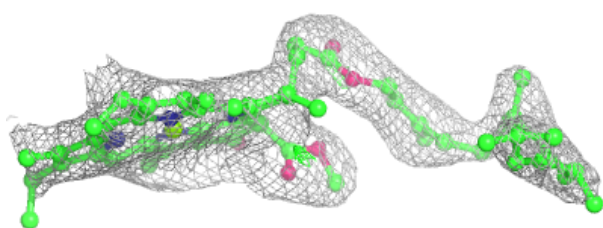
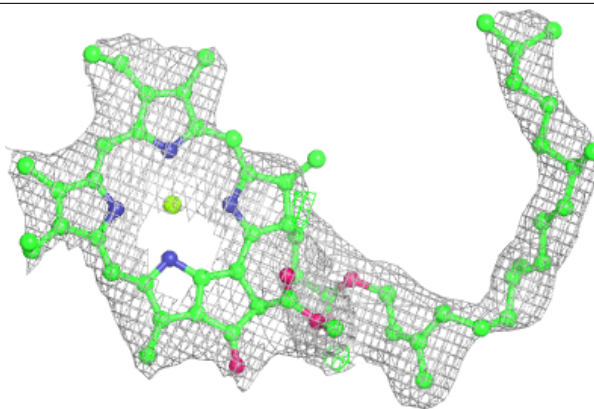
**Electron density around LMT L 6001:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

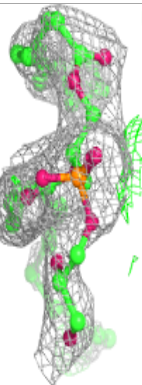
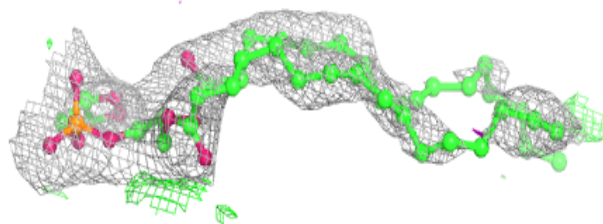
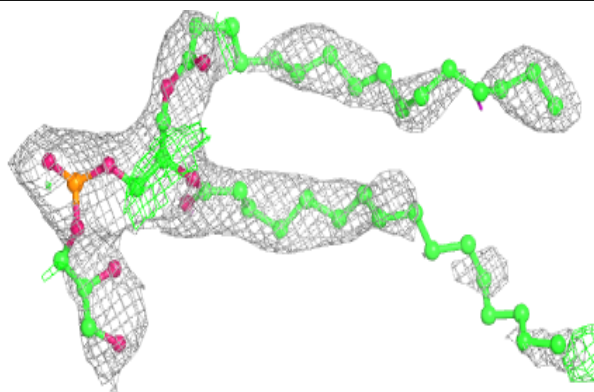


Electron density around CLA a 1101:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

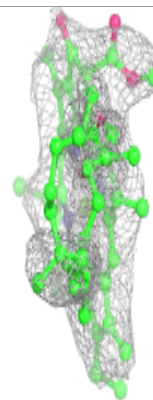
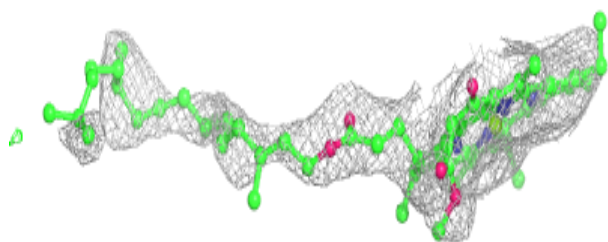
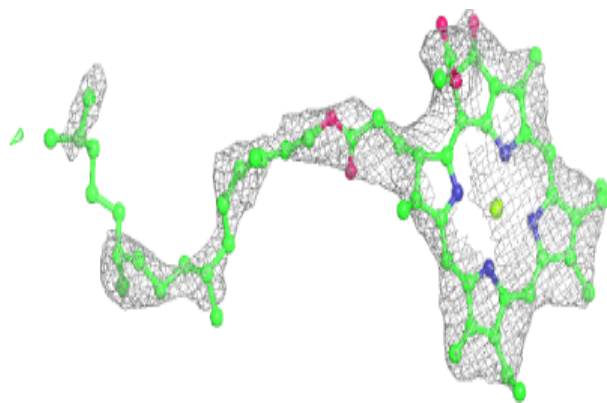
**Electron density around LHG L 5005:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

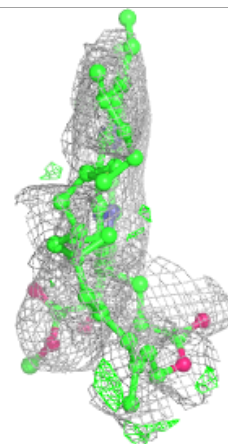
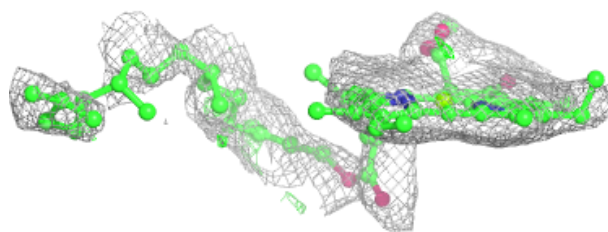
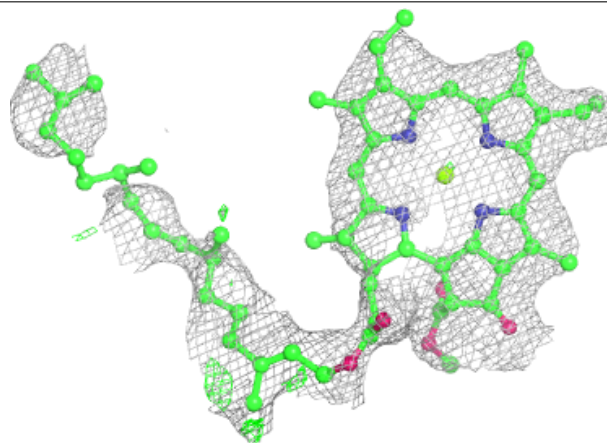


Electron density around CLA F 1302:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

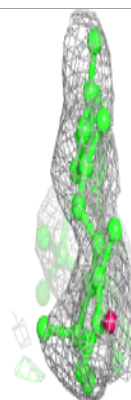
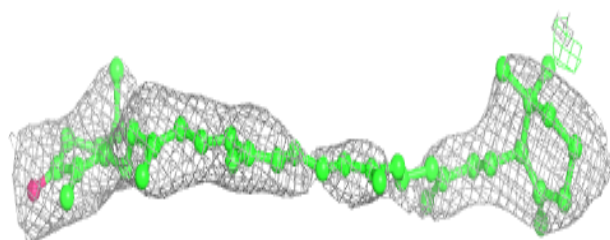
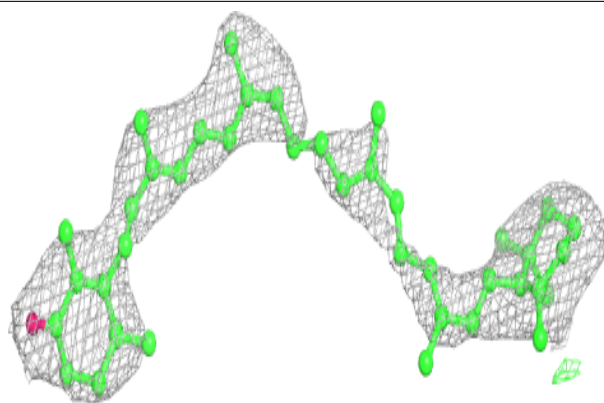
**Electron density around CLA B 1219:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

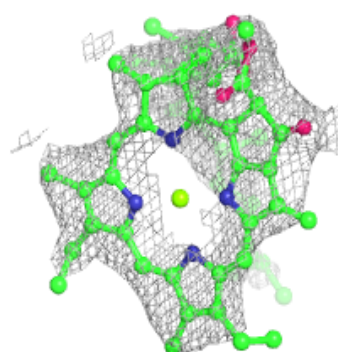
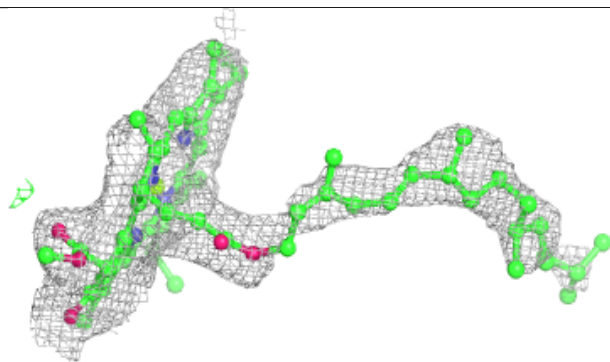
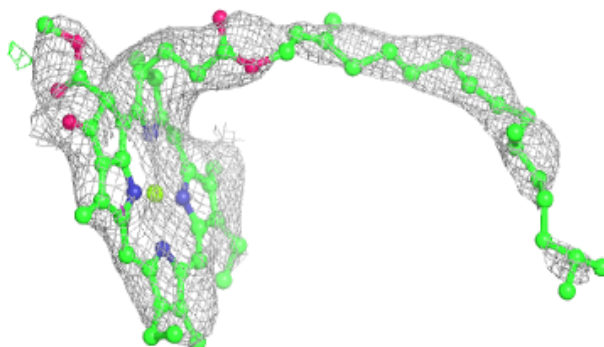


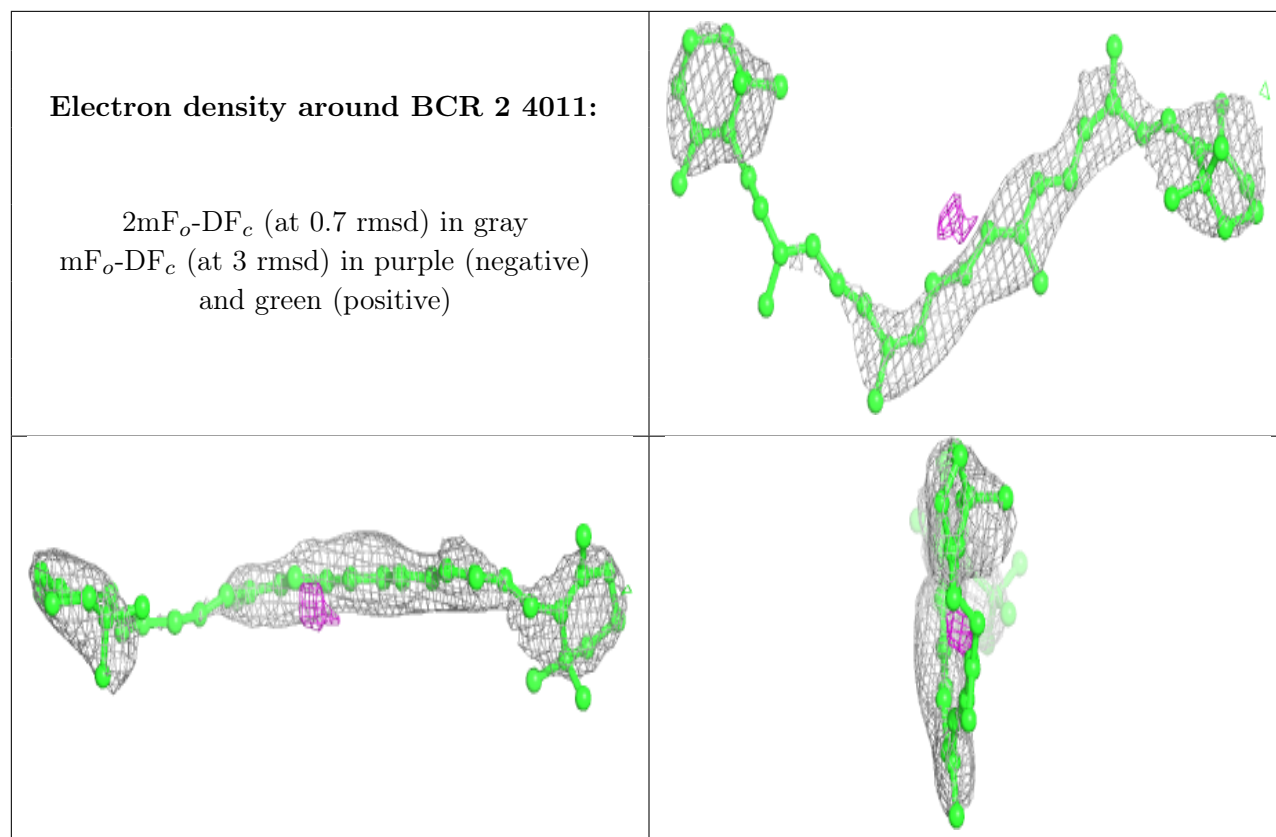
Electron density around ECH b 4011:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around CLA 1 1133:**

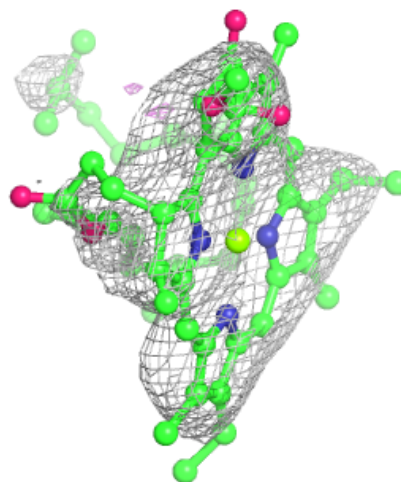
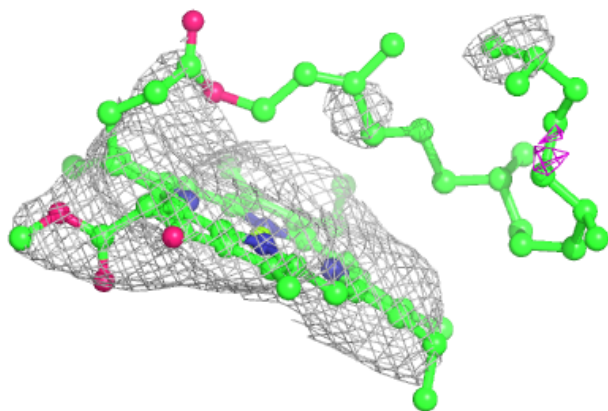
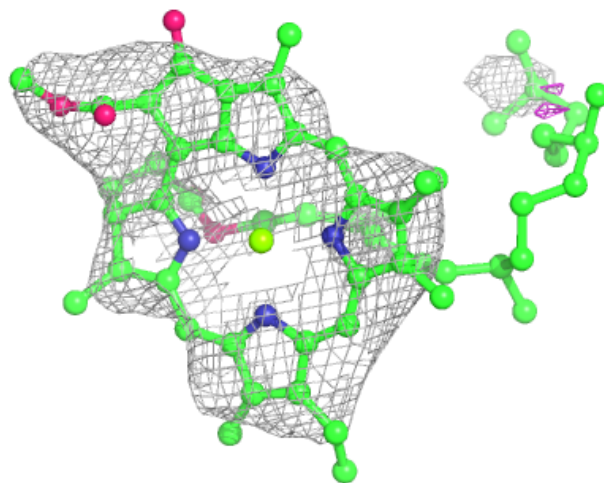
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





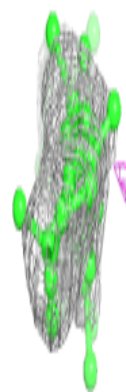
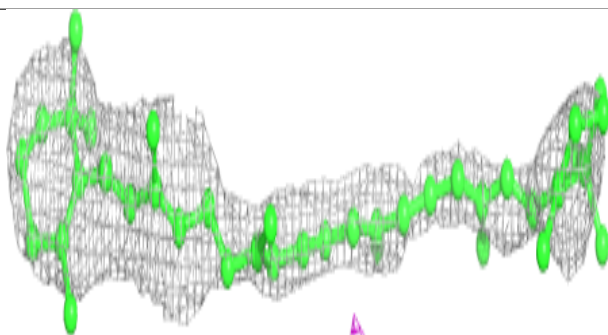
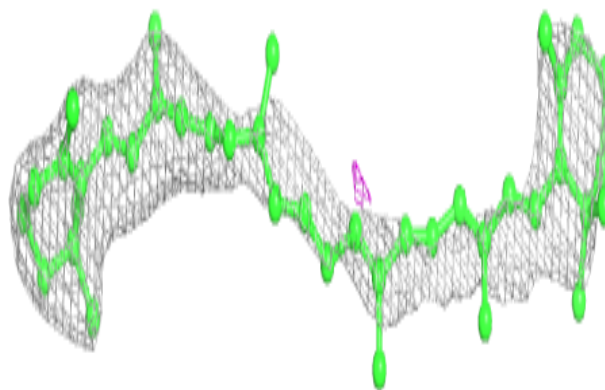
Electron density around CLA a 1121:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

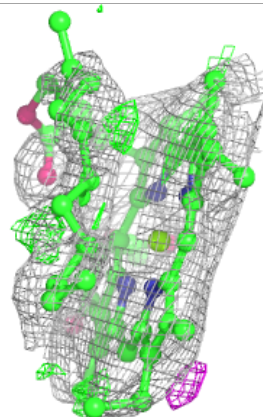
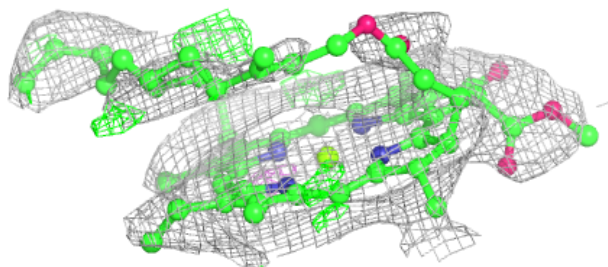
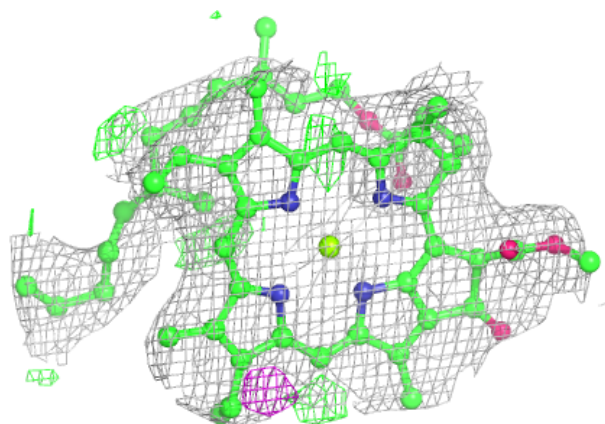


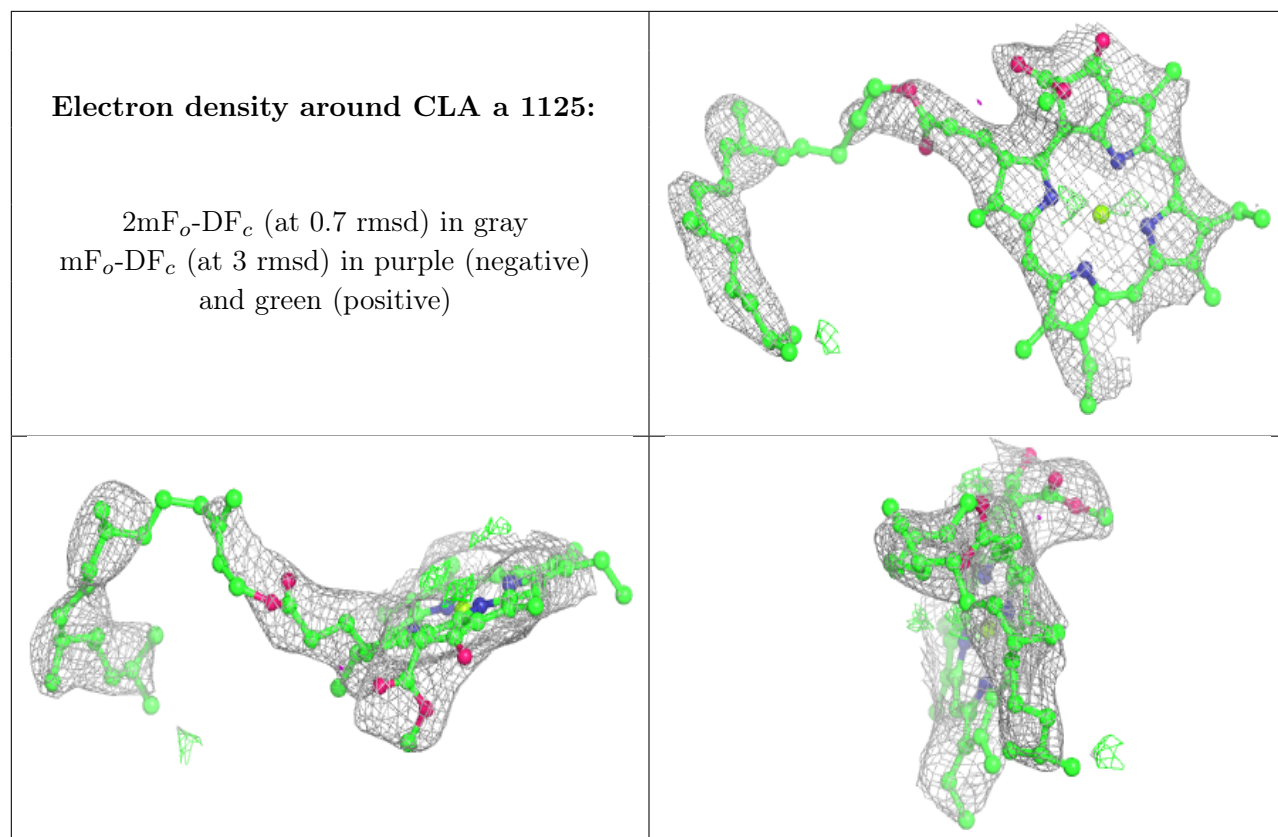
Electron density around BCR a 4012:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around CLA a 1110:**

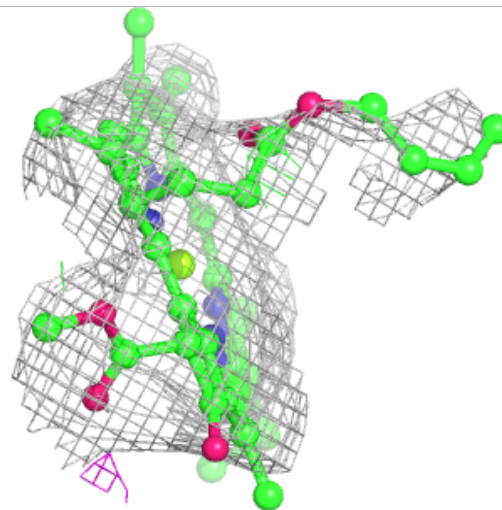
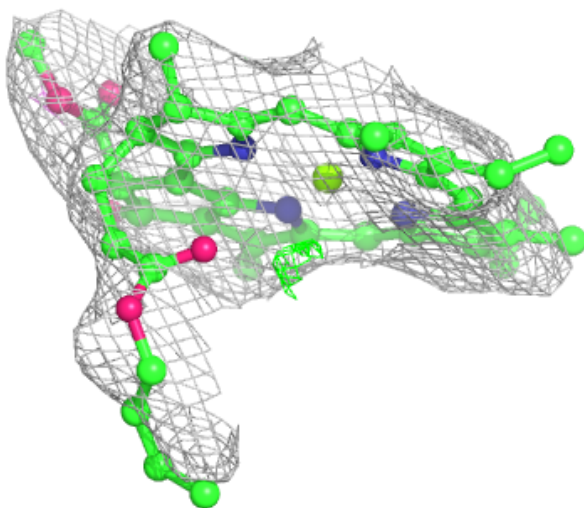
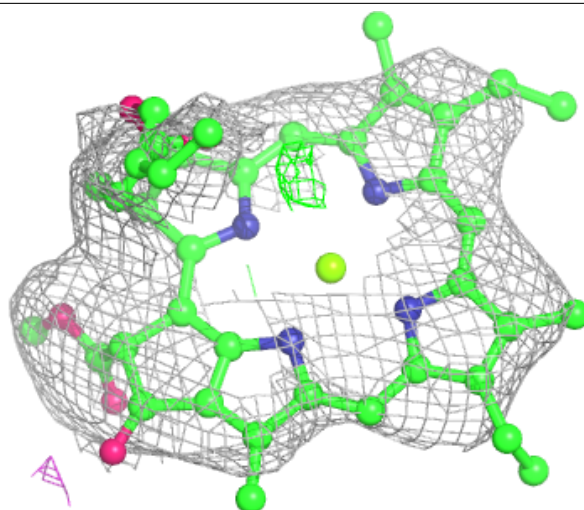
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





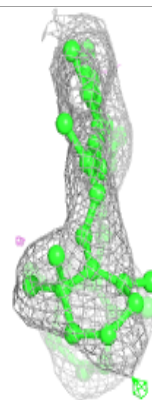
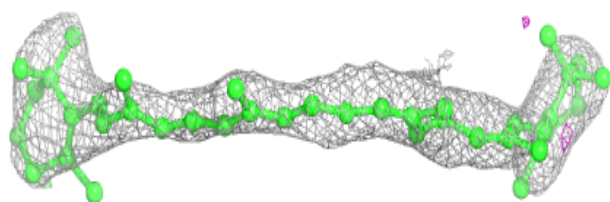
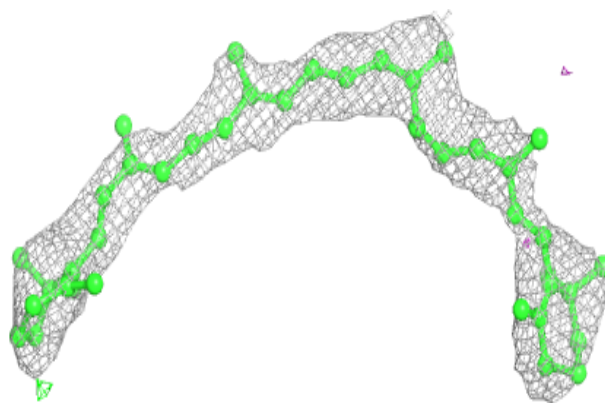
Electron density around CLA a 1134:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

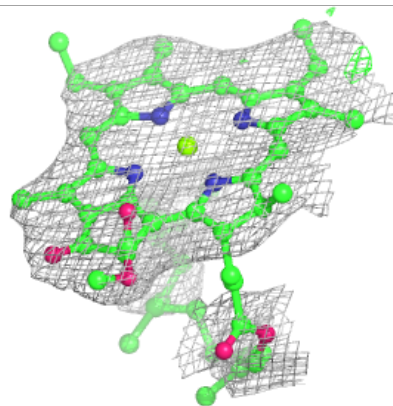
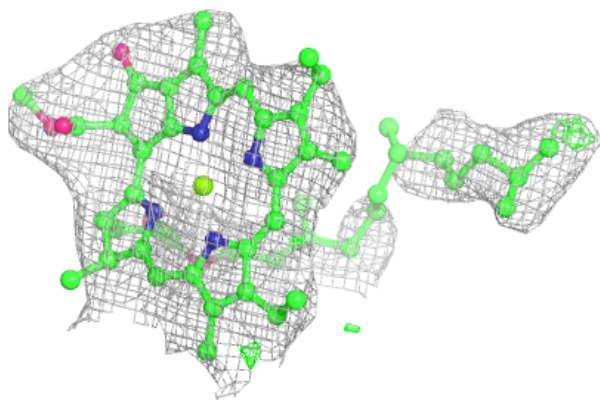
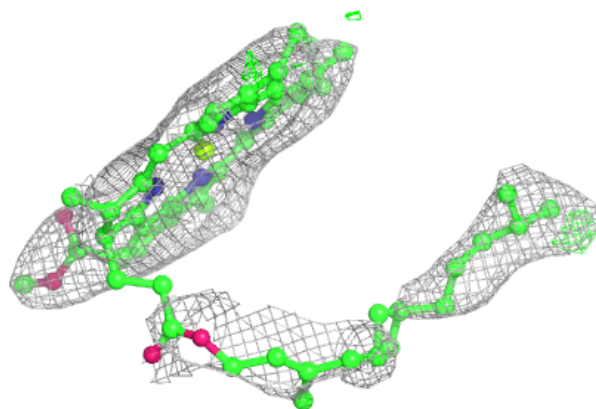


Electron density around BCR f 4016:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

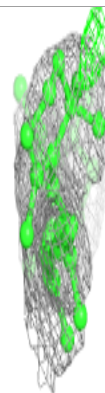
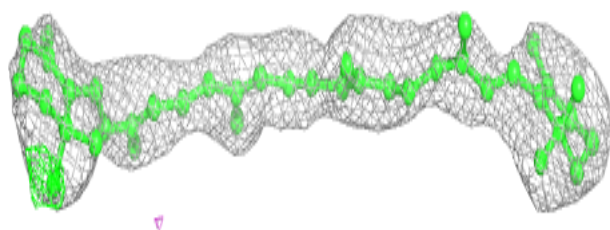
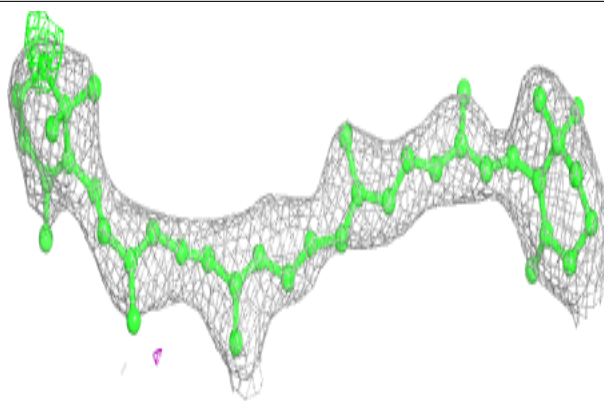
**Electron density around CLA 2 1208:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

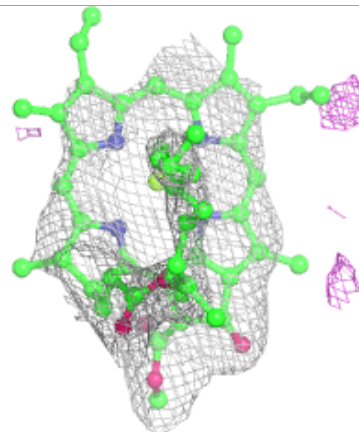
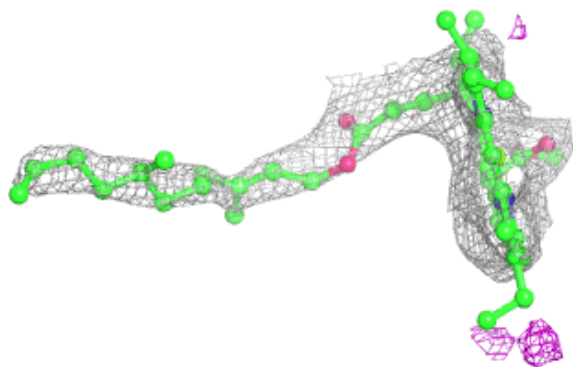
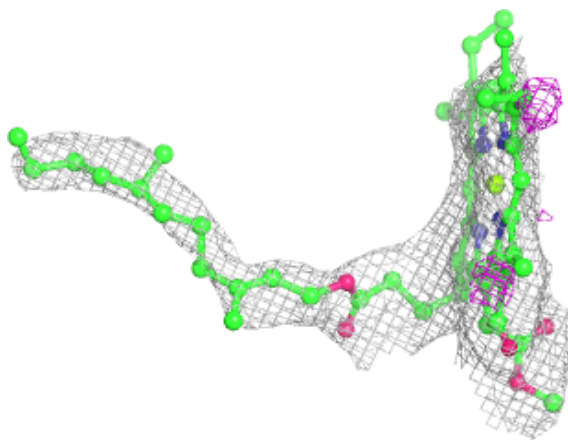


Electron density around BCR B 4010:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

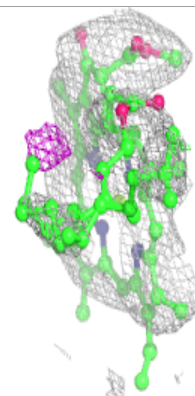
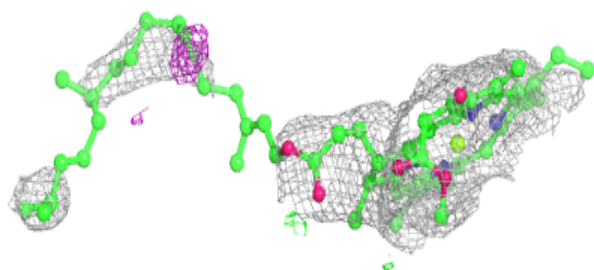
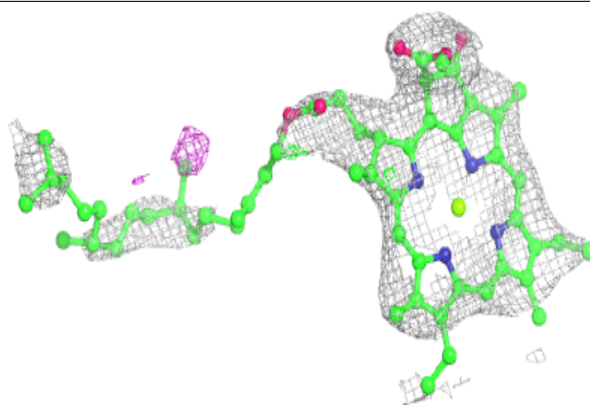
**Electron density around CLA a 1105:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

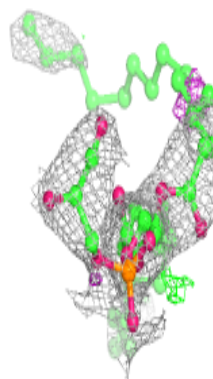
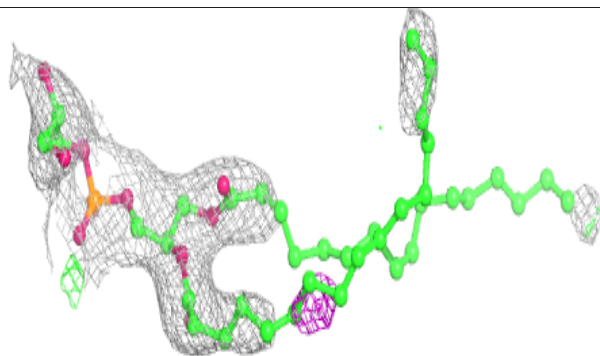
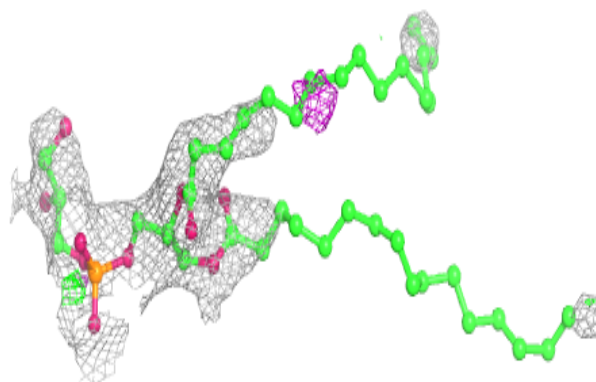


Electron density around CLA 2 1210:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

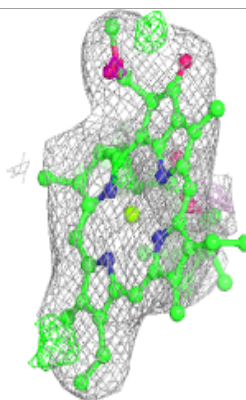
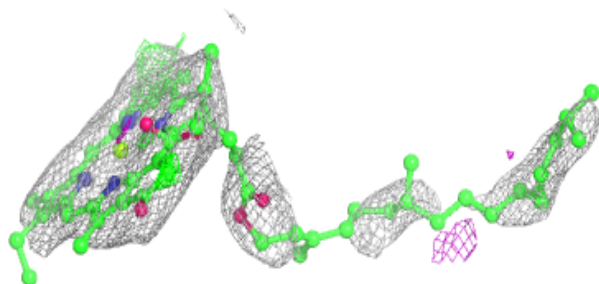
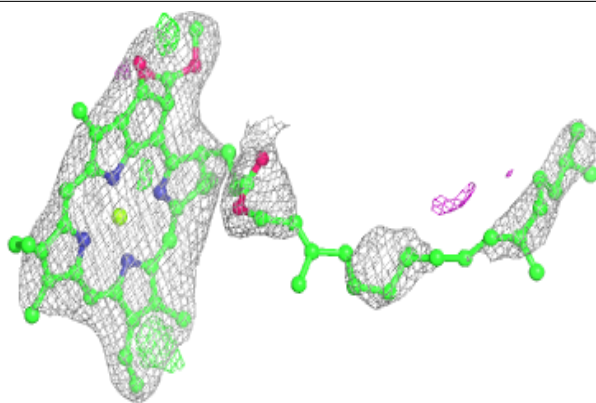
**Electron density around LHG 1 5003:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

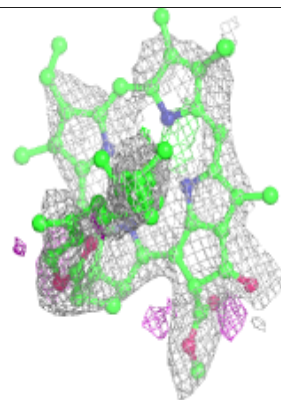
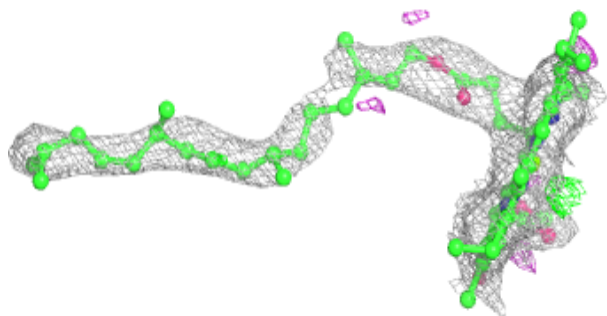
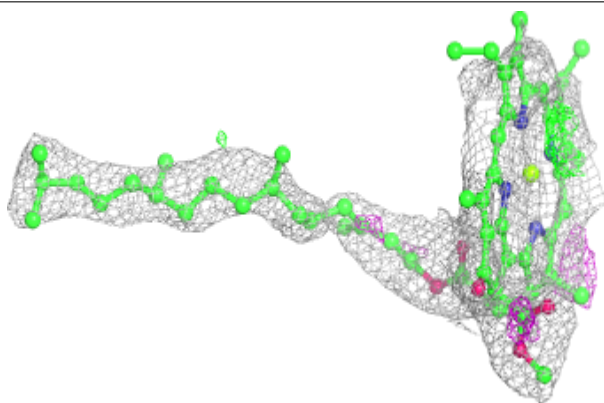


Electron density around CLA a 1119:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

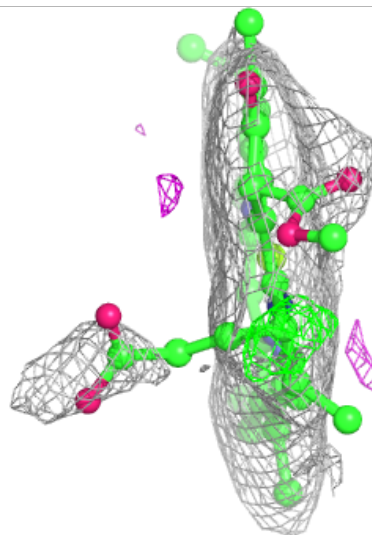
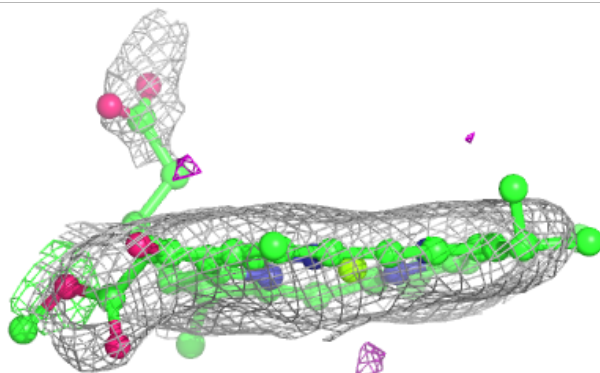
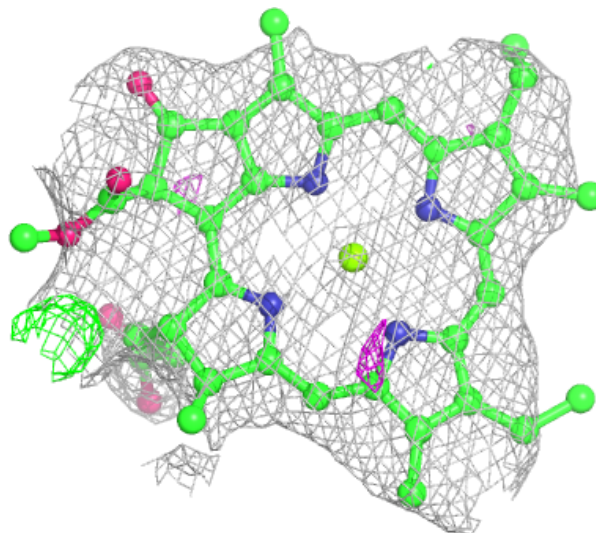
**Electron density around CLA 2 1225:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



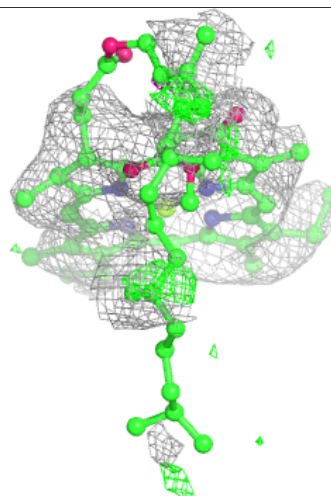
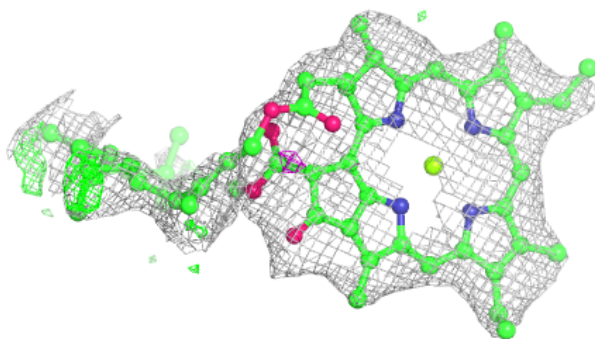
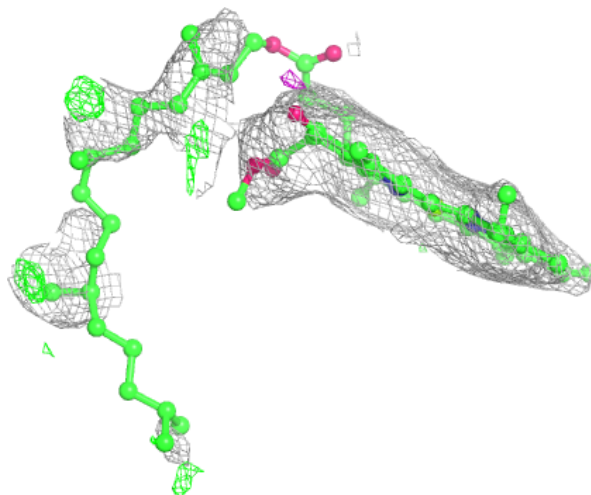
Electron density around CLA 2 1227:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



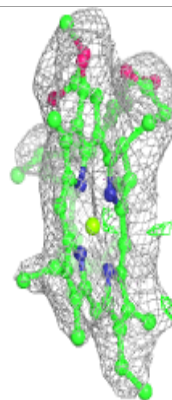
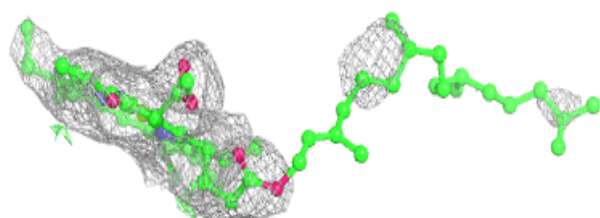
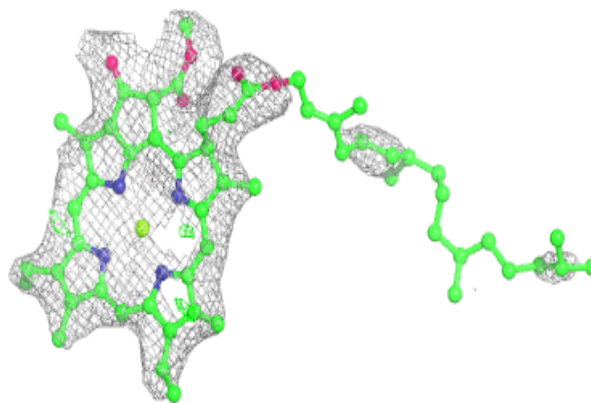
Electron density around CLA b 1240:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

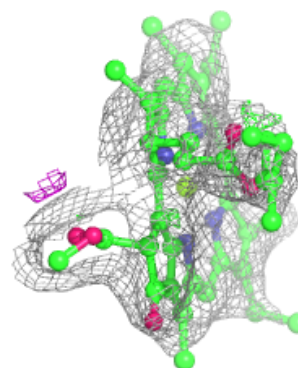
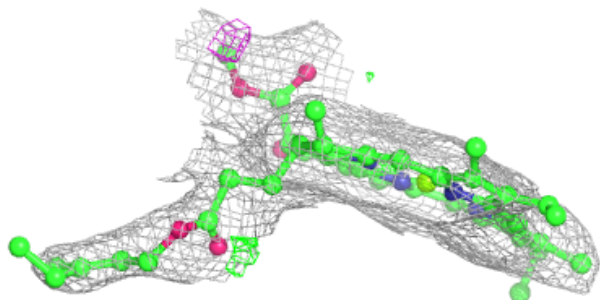
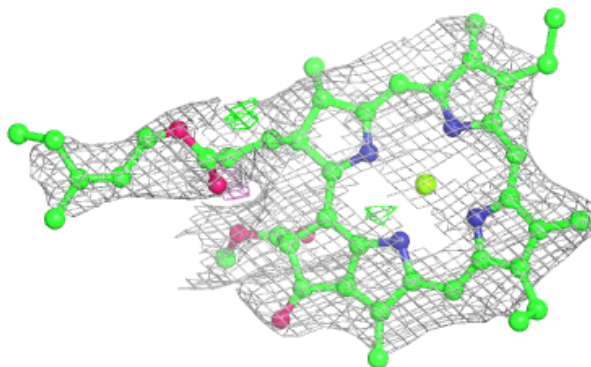


Electron density around CLA F 1301:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

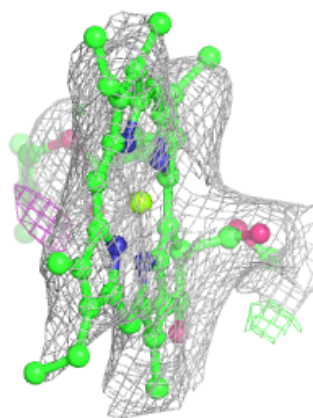
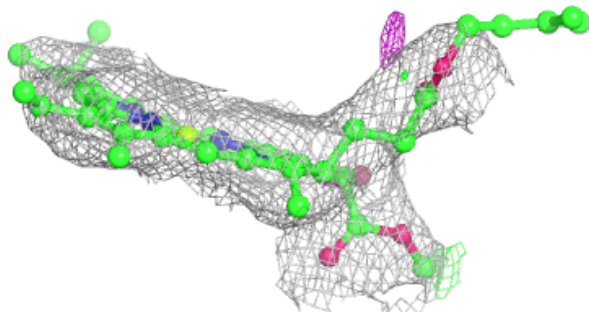
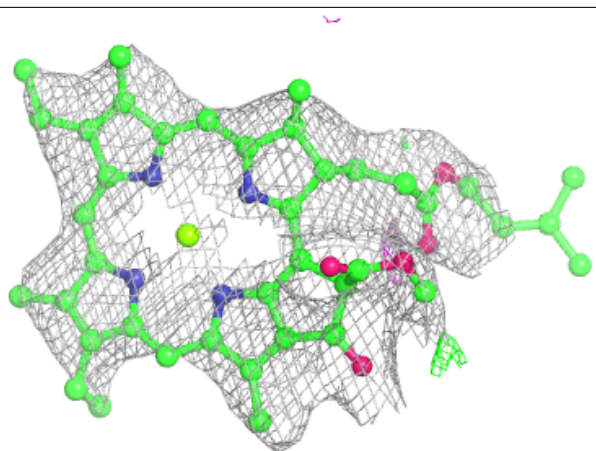
**Electron density around CLA 1 1107:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

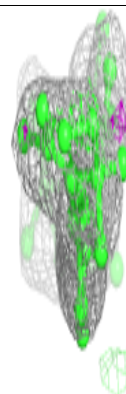
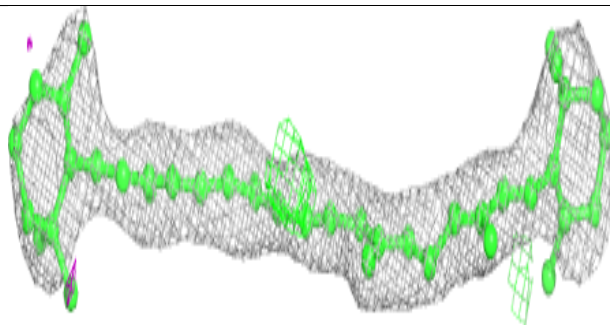
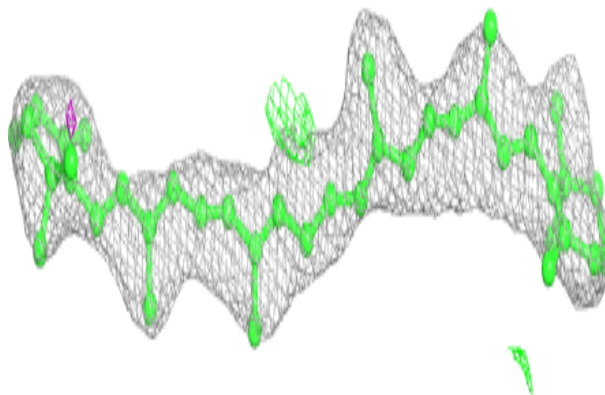


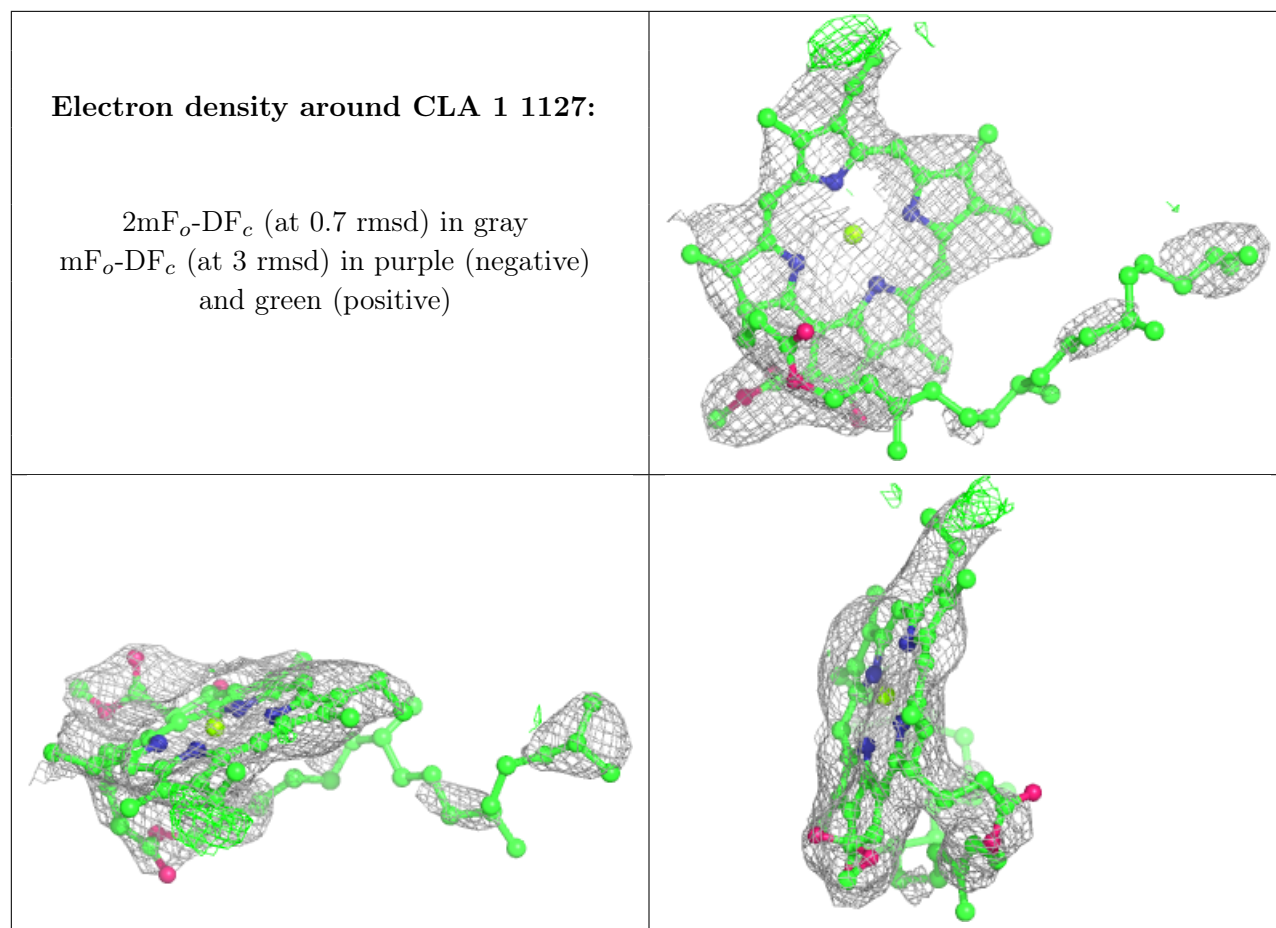
Electron density around CLA a 1107:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around BCR L 4022:**

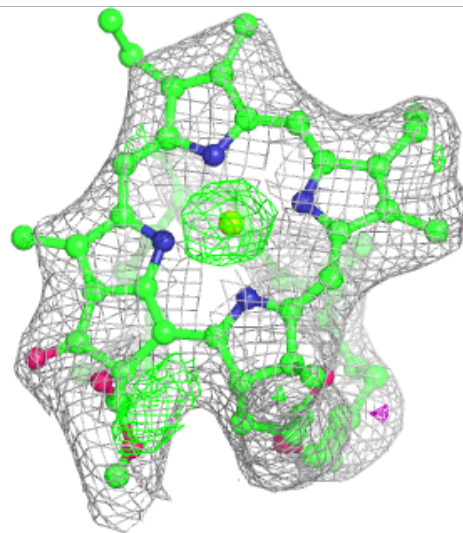
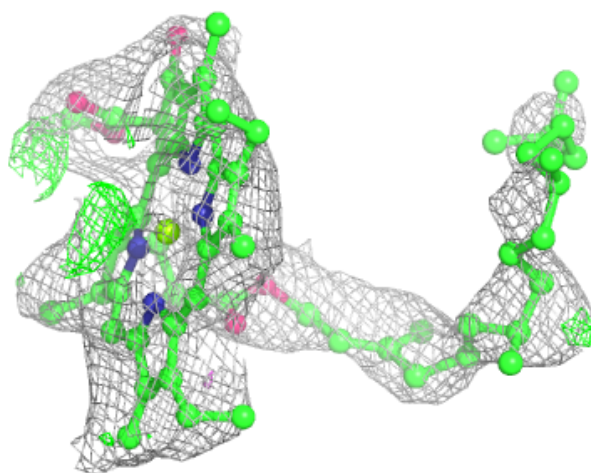
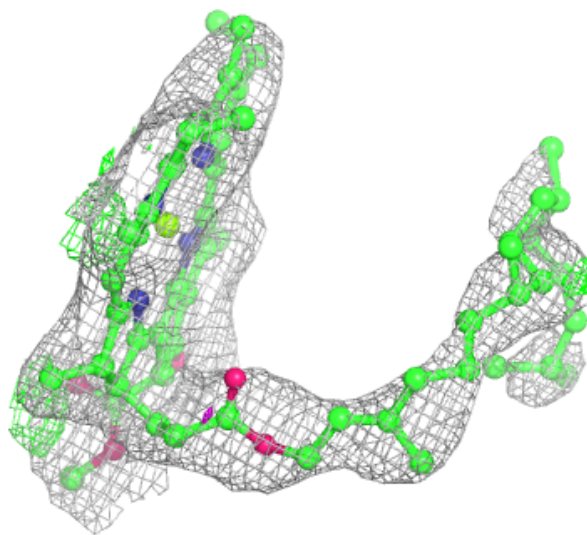
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

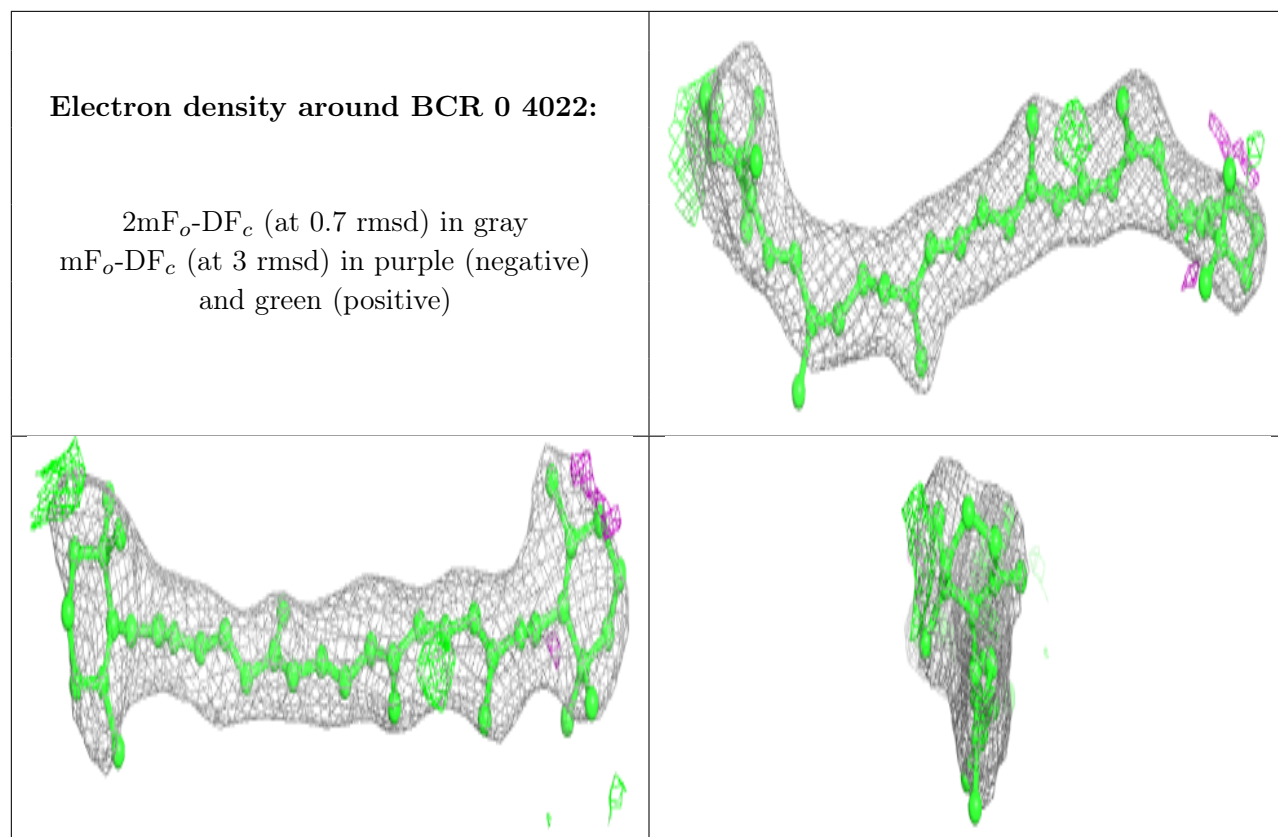




Electron density around CLA B 1216:

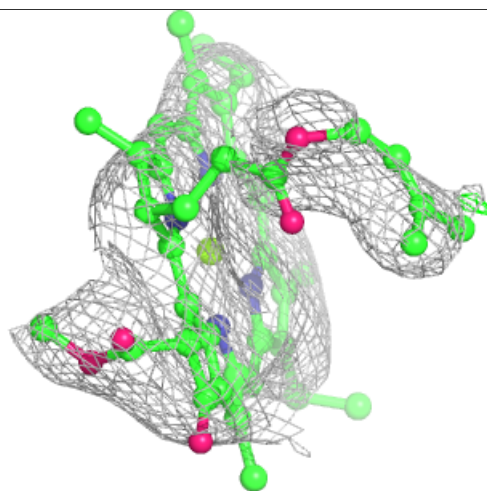
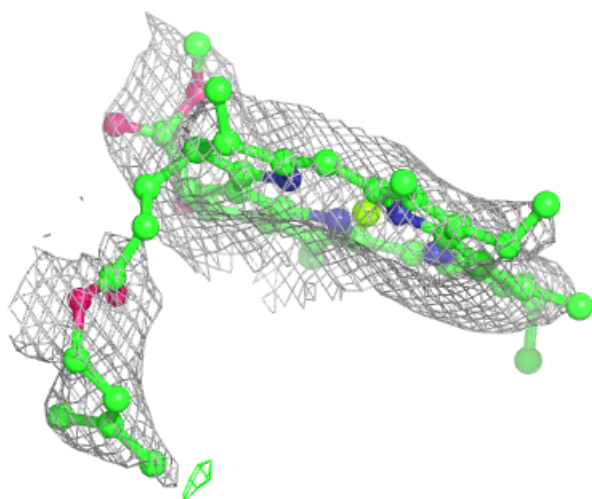
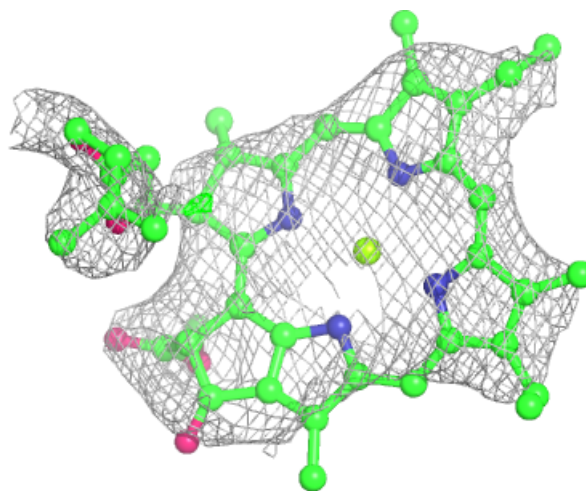
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





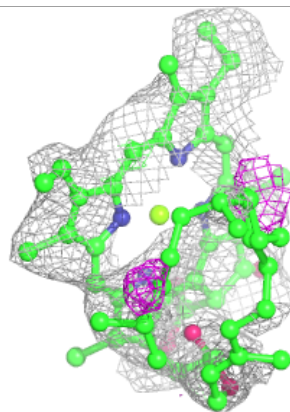
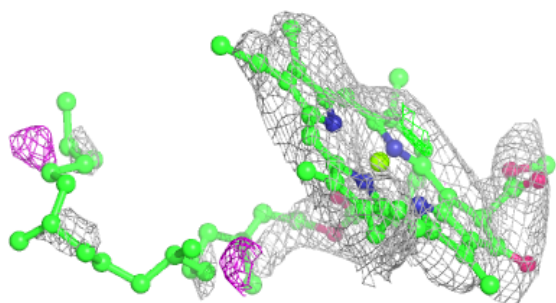
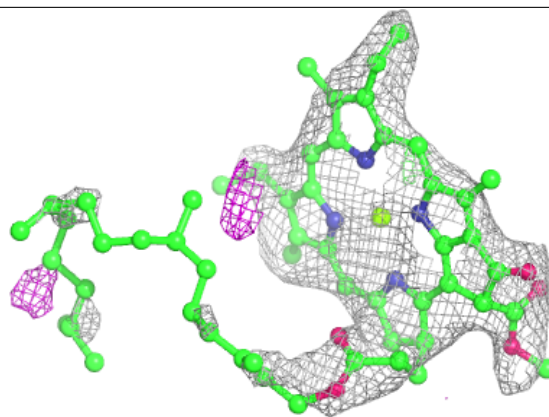
Electron density around CLA 1 1112:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

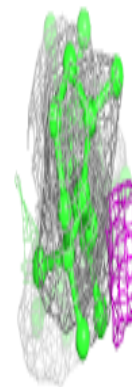
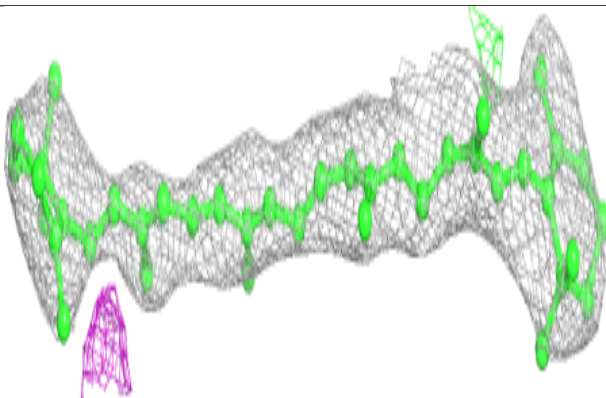
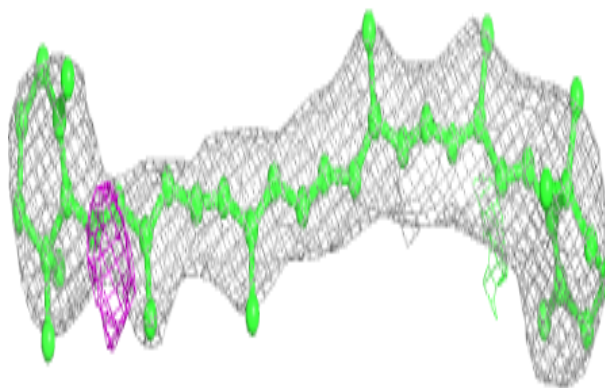


Electron density around CLA a 1122:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

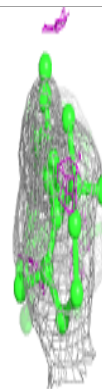
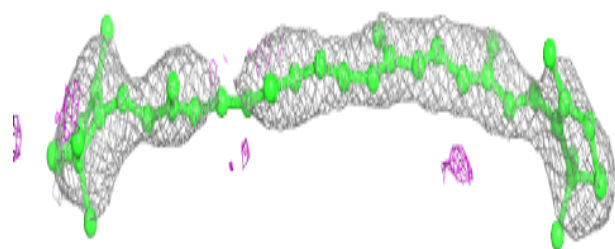
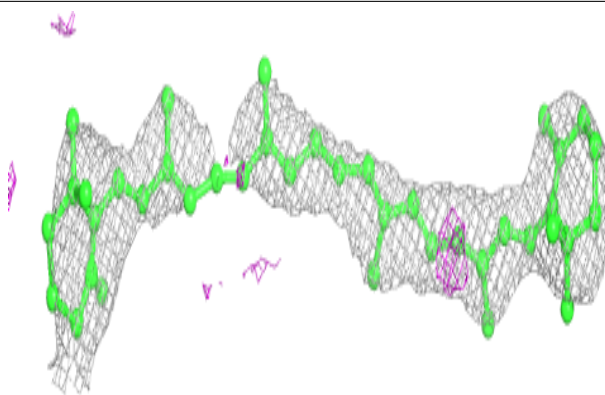
**Electron density around BCR A 4002:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

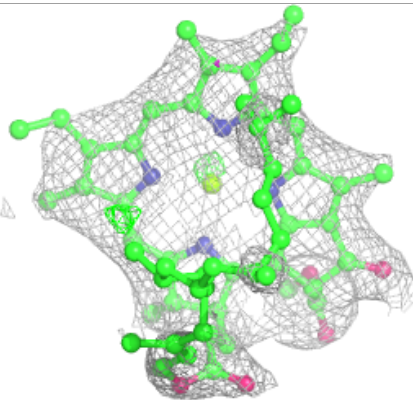
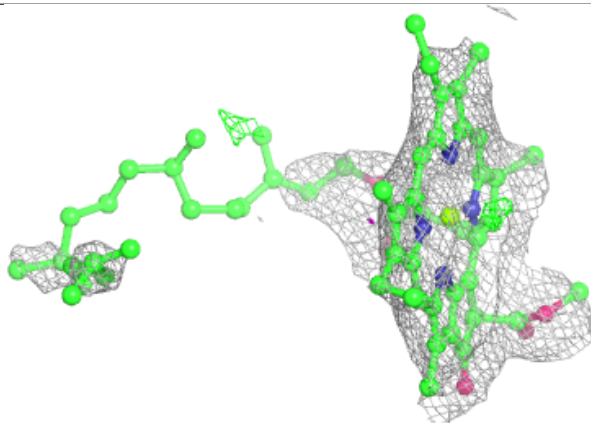
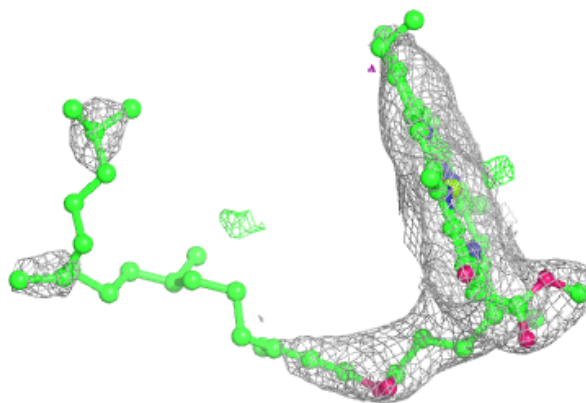


Electron density around BCR 1 4008:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

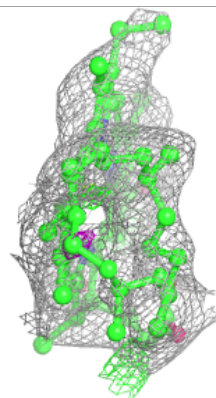
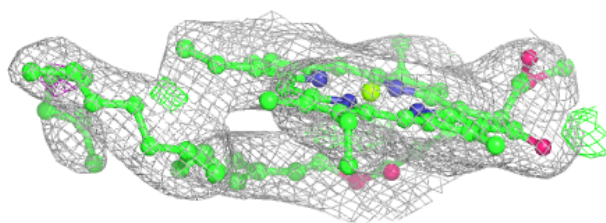
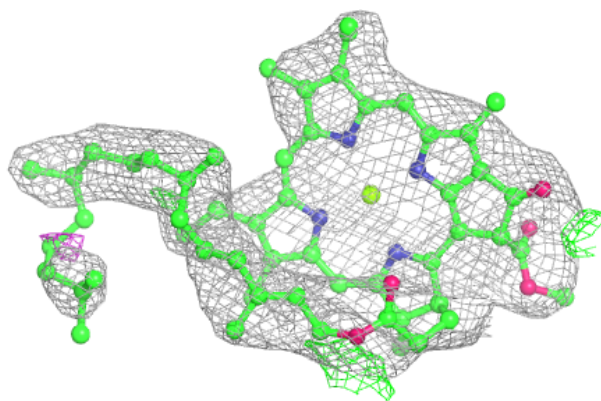
**Electron density around CLA b 1227:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

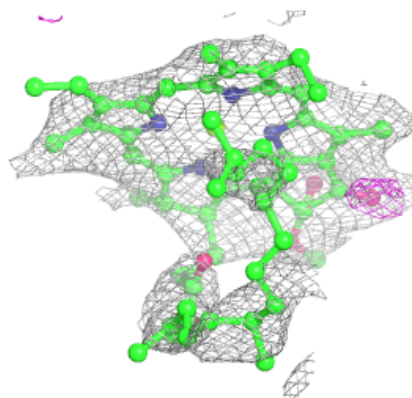
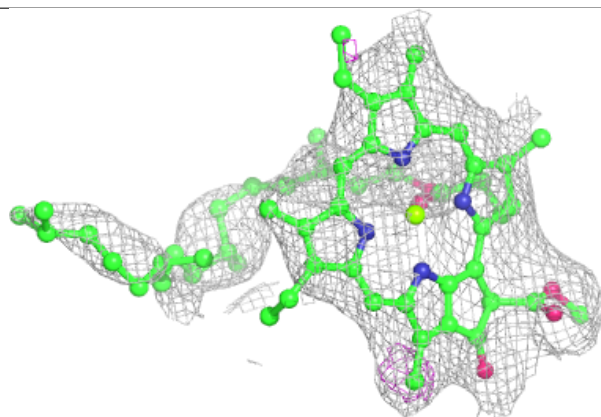
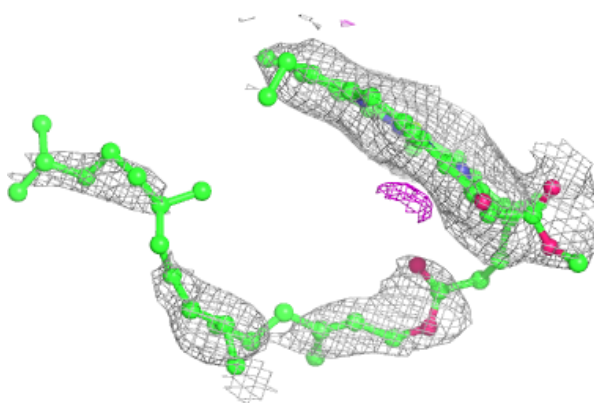


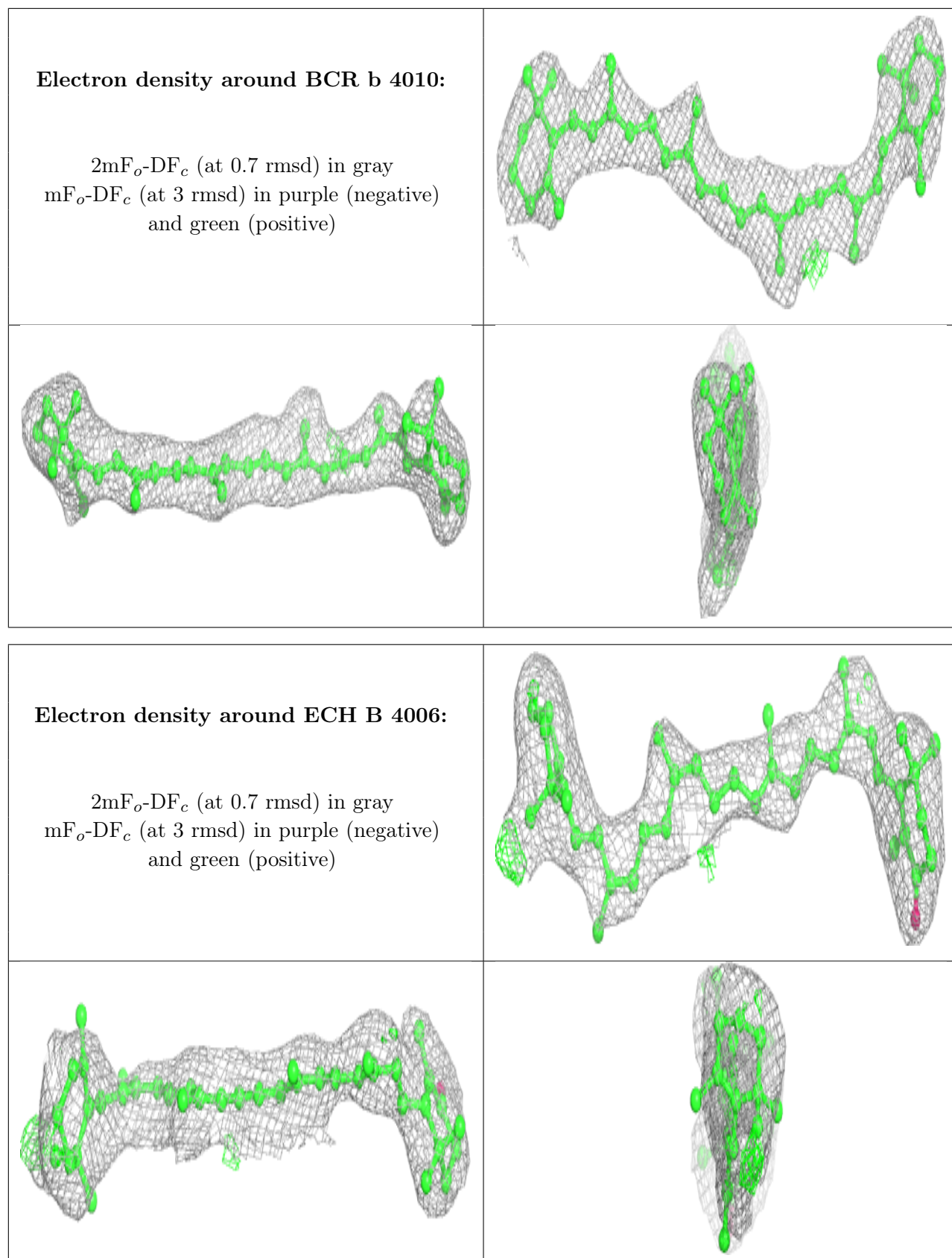
Electron density around CLA a 1117:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around CLA a 1109:**

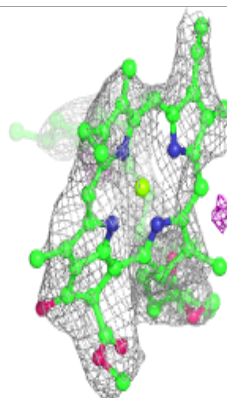
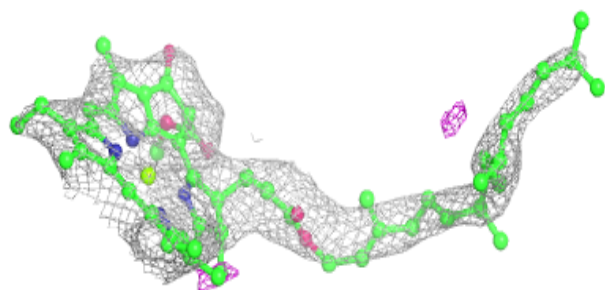
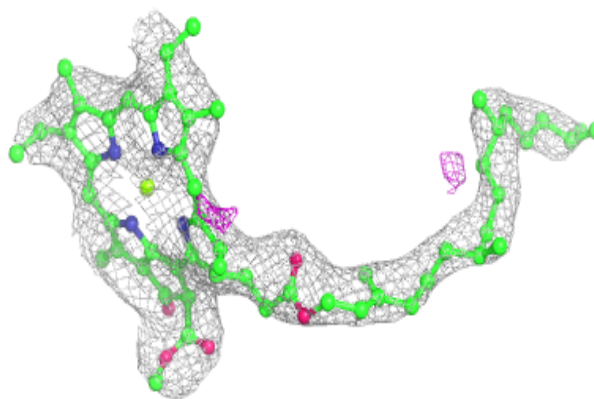
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



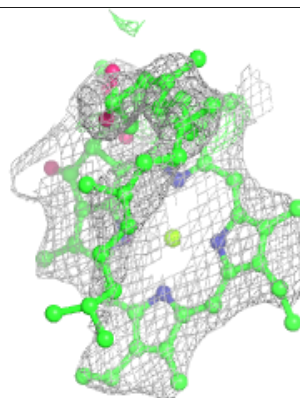
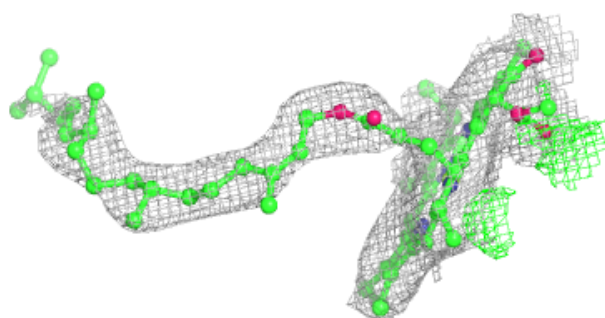
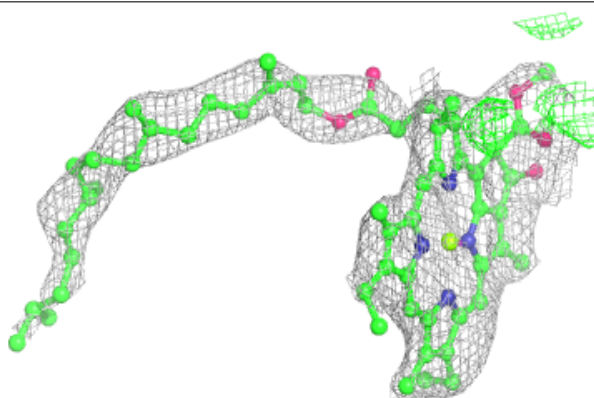


Electron density around CLA 1 1012:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

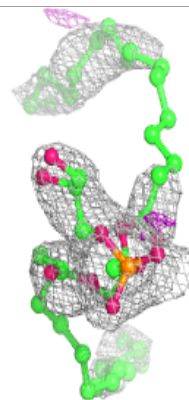
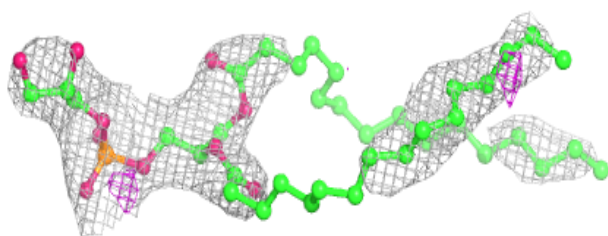
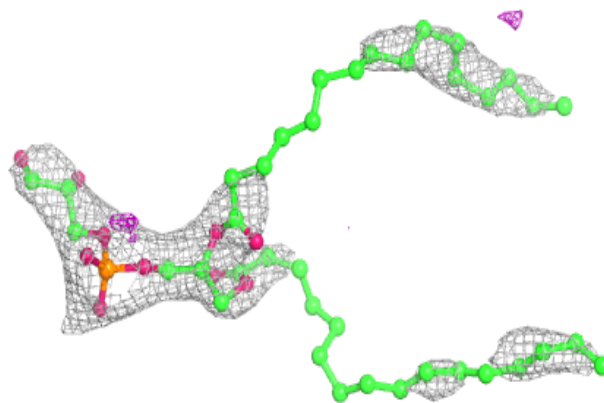
**Electron density around CLA a 1133:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

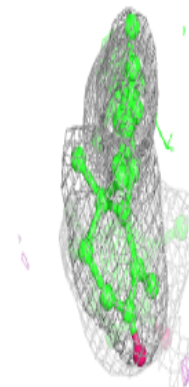
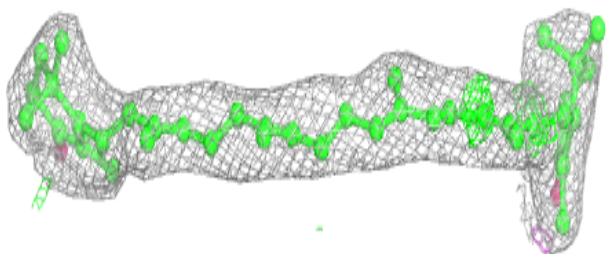
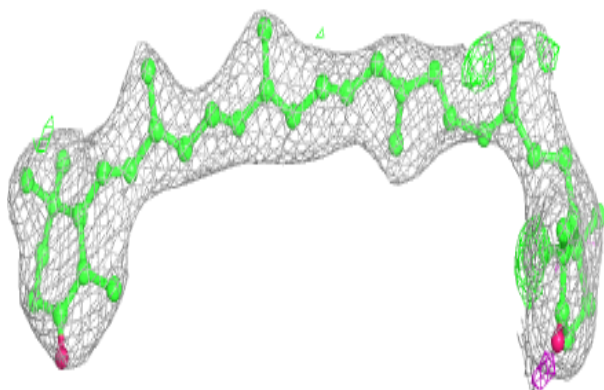


Electron density around LHG 1 5001:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

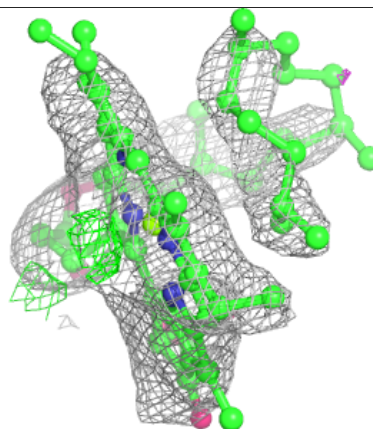
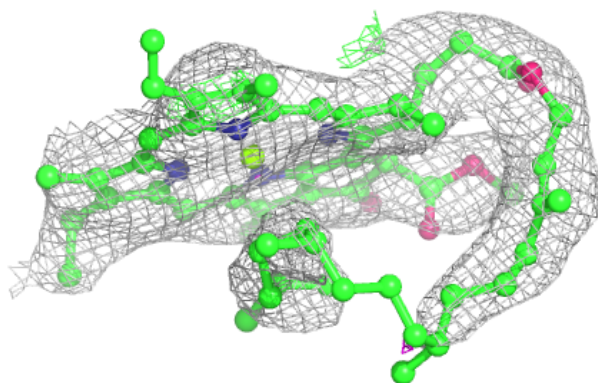
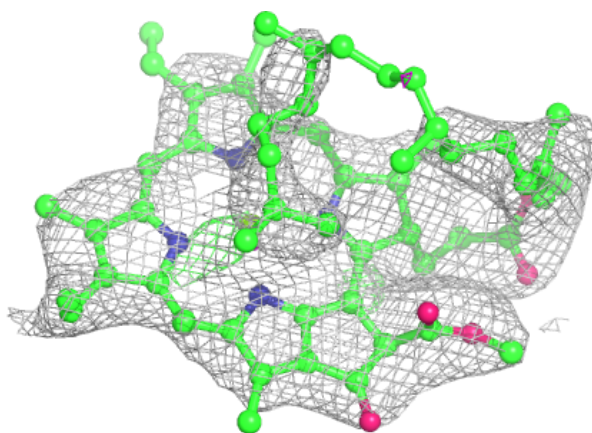
**Electron density around 45D h 4020:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



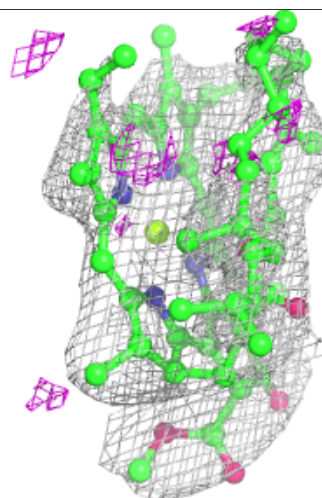
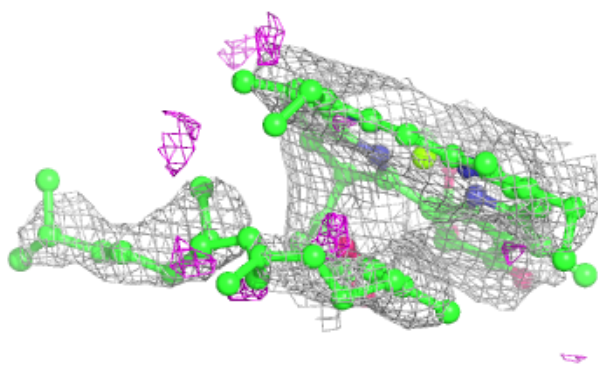
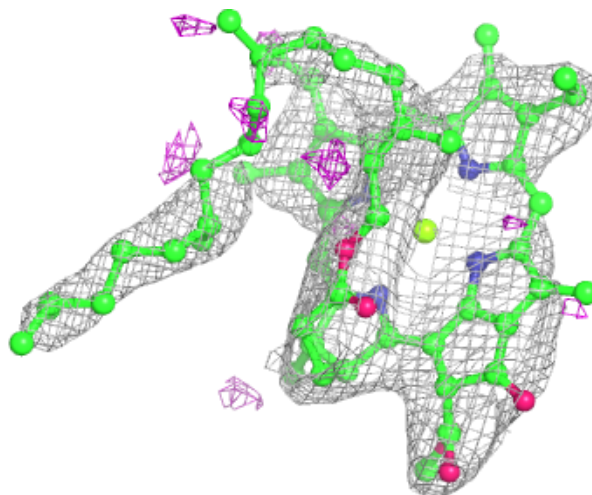
Electron density around CLA 2 1203:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



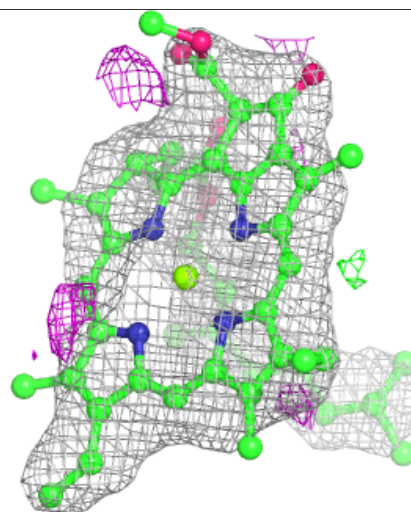
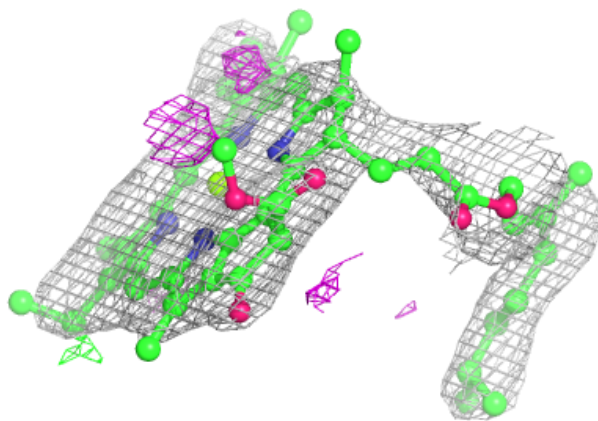
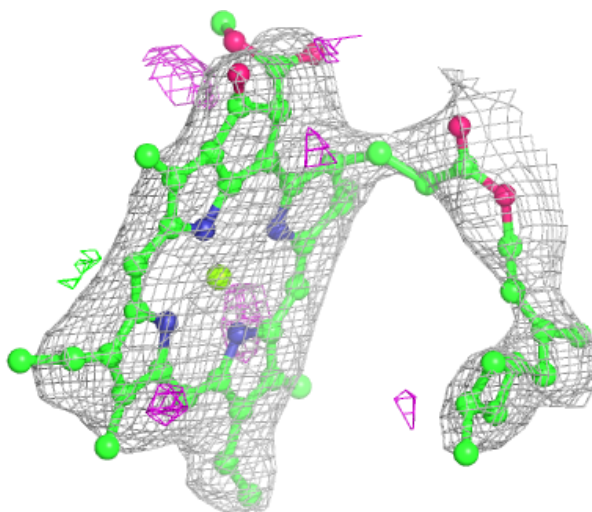
Electron density around CLA 2 1205:

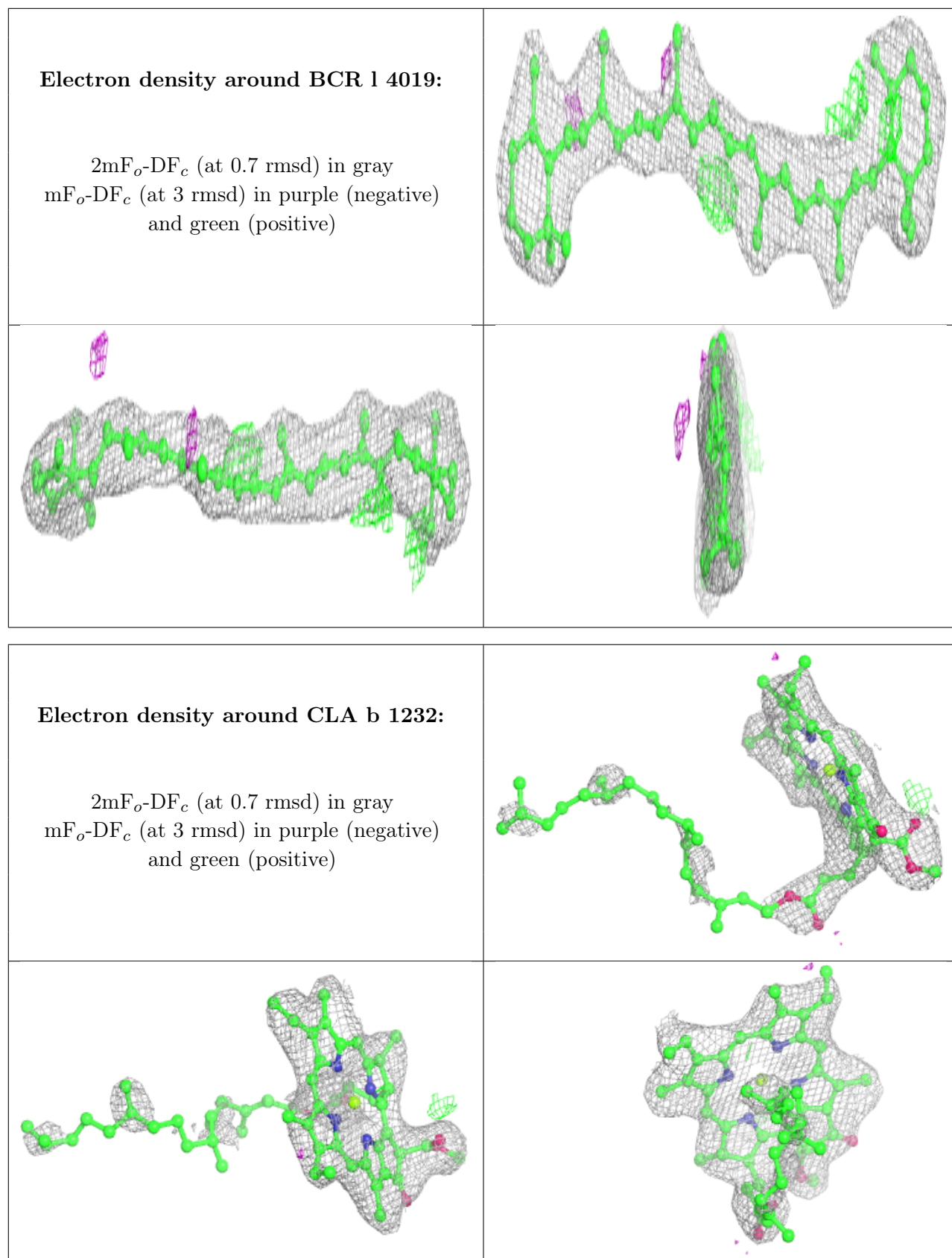
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

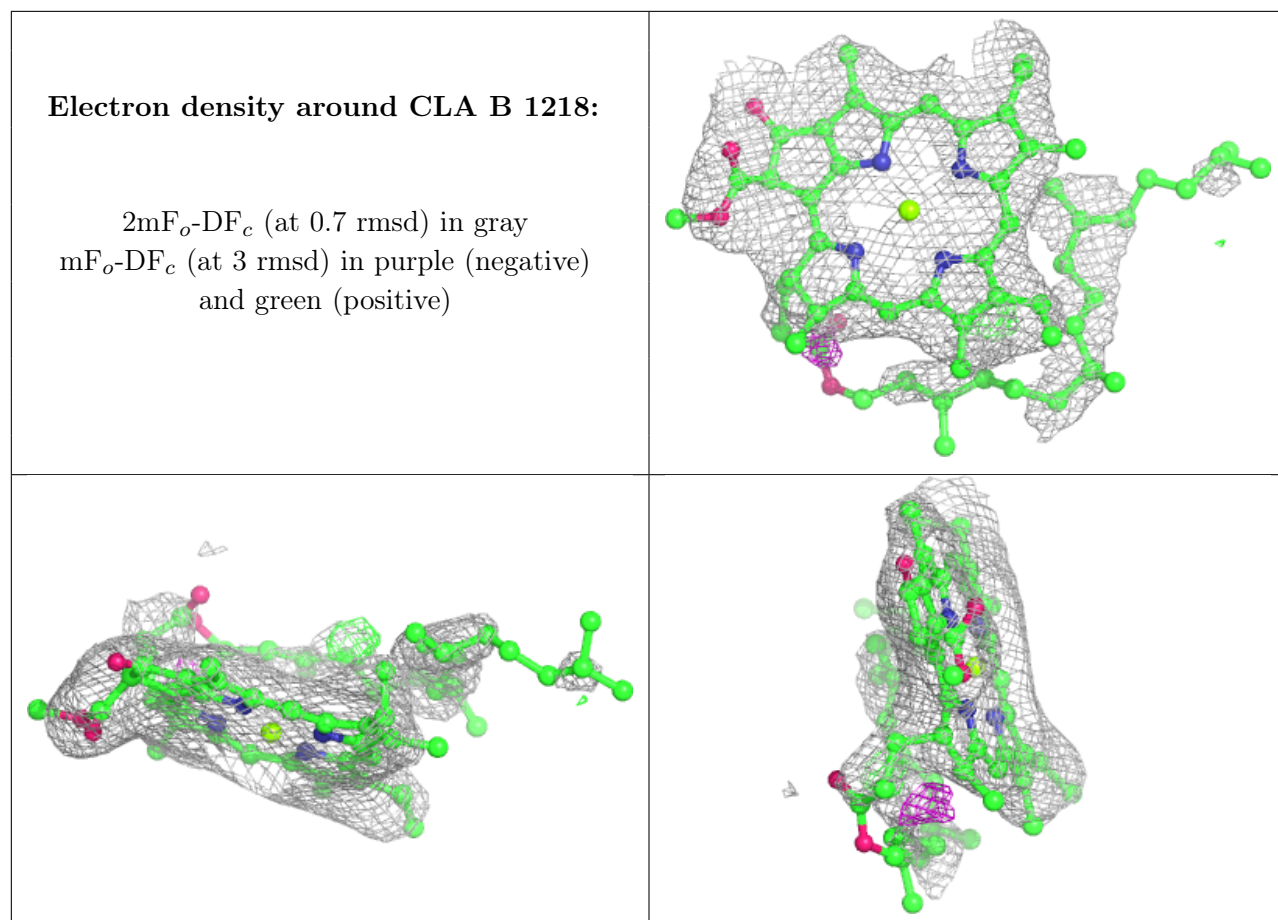


Electron density around CLA 1 1102:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

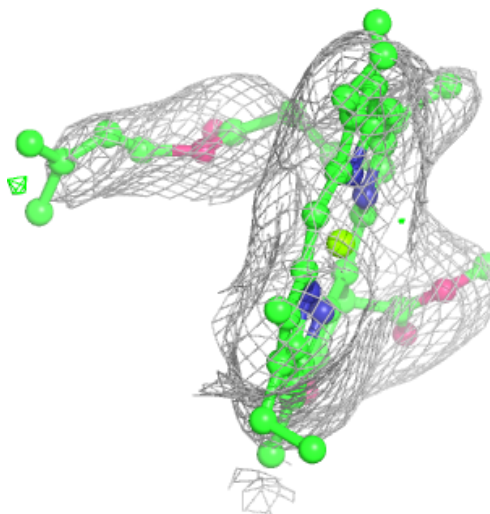
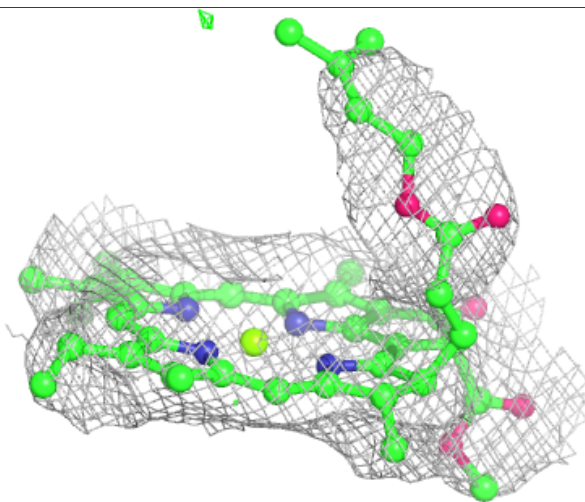
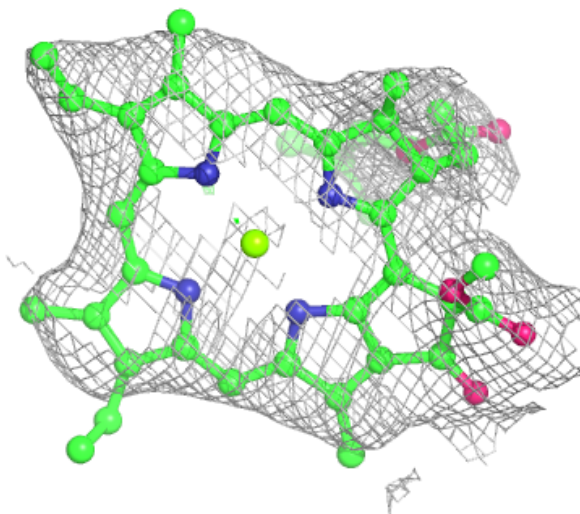






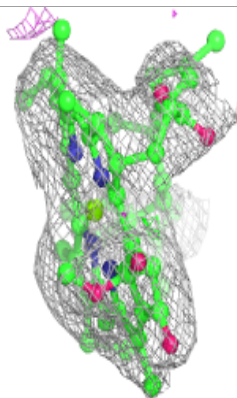
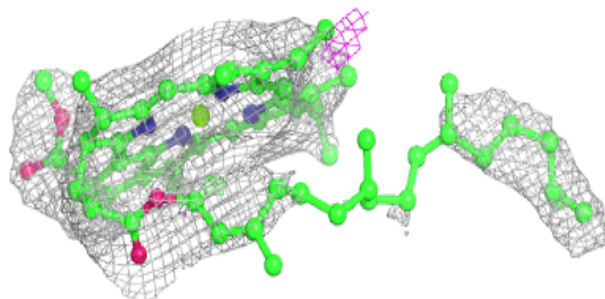
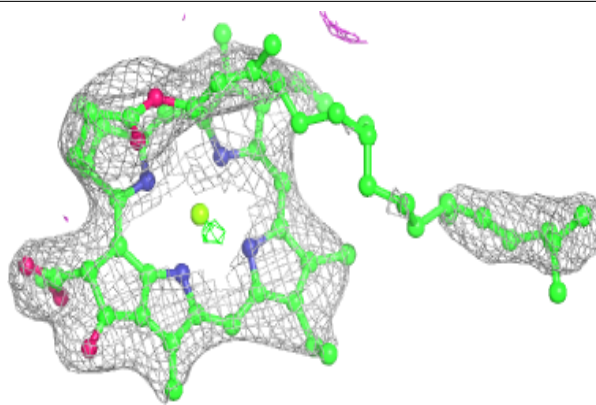
Electron density around CLA 2 1211:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

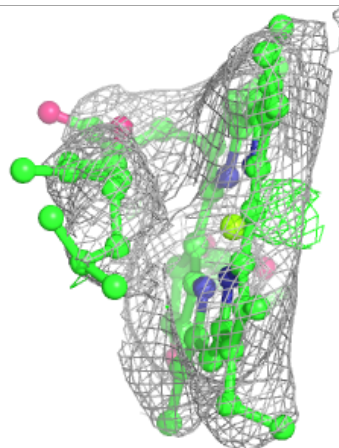
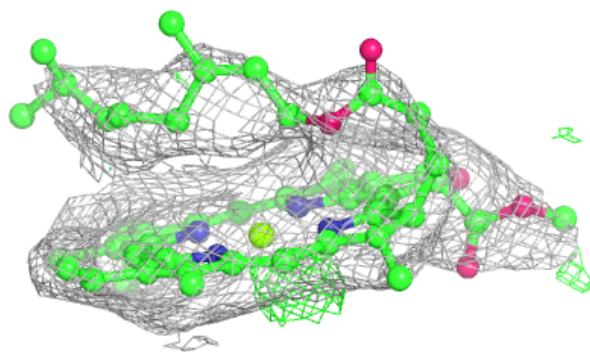
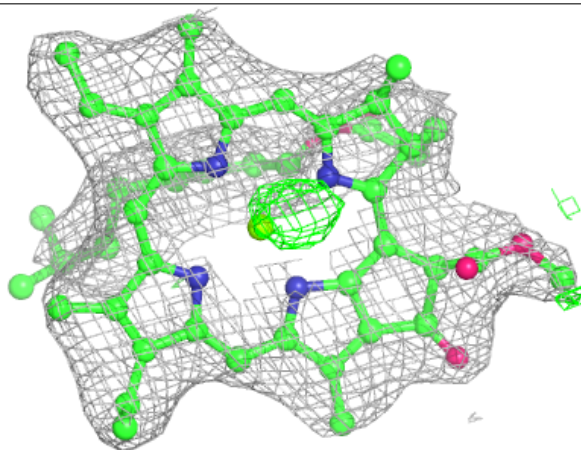


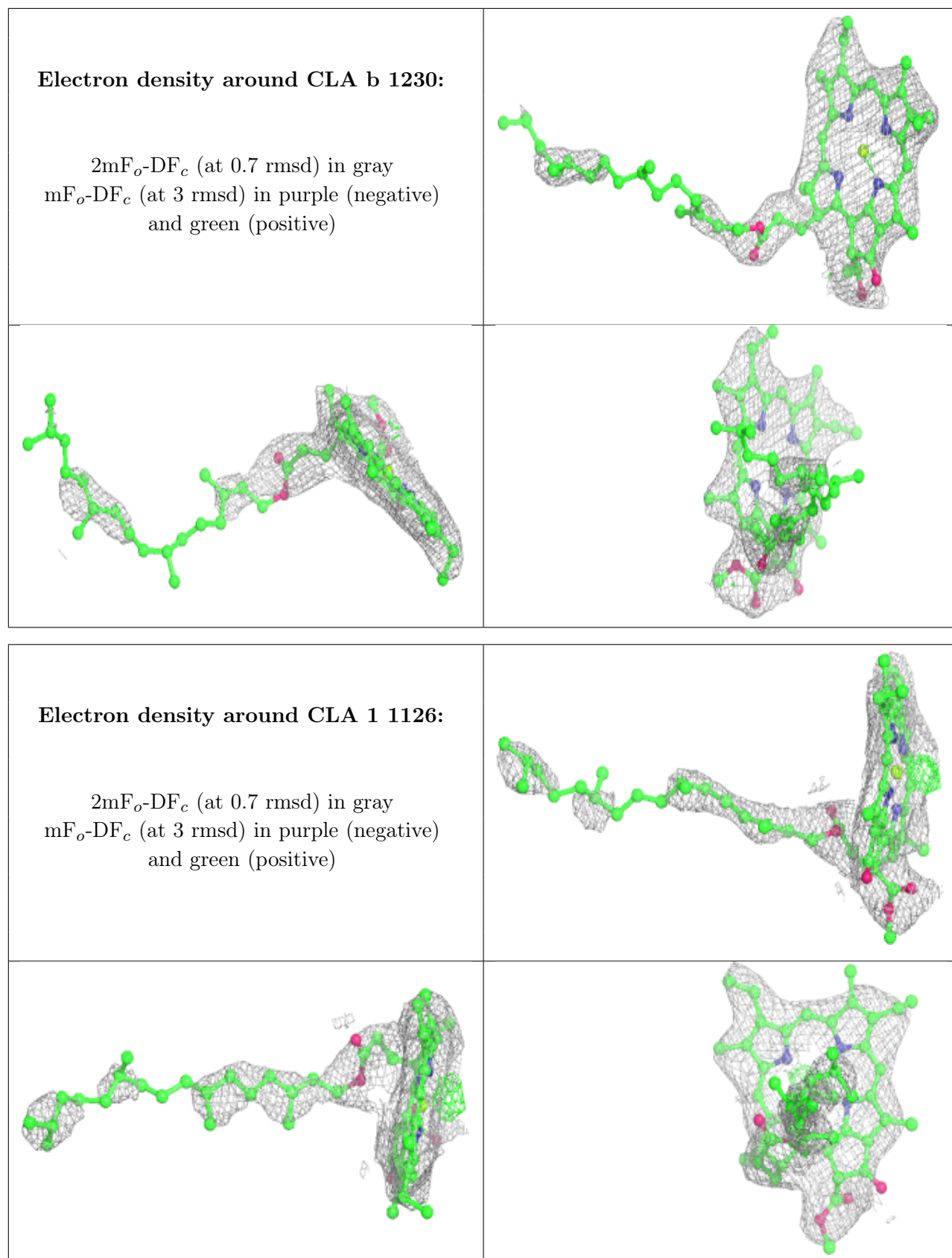
Electron density around CLA B 1217:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around CLA 1 1121:**

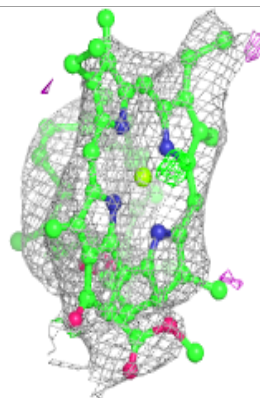
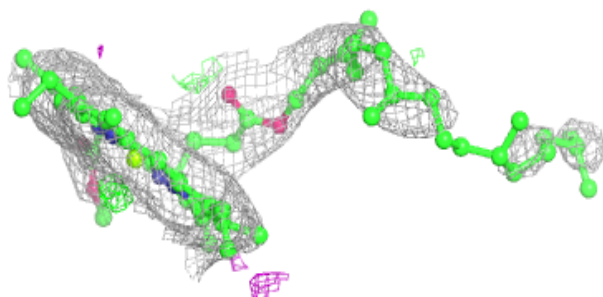
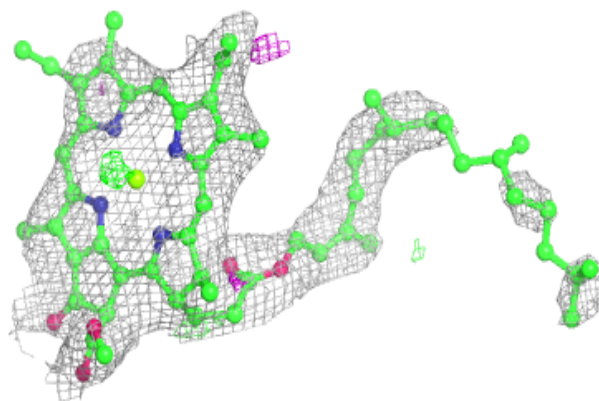
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



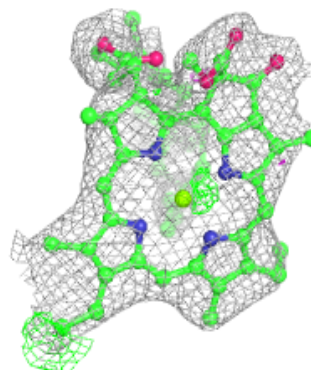
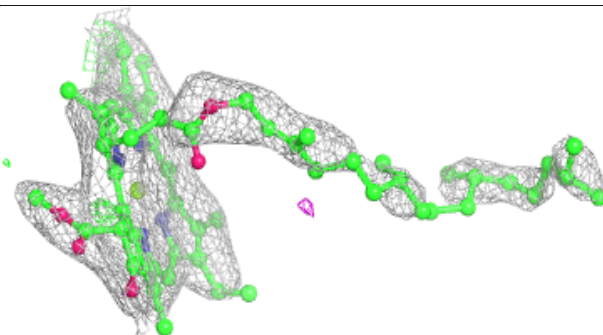
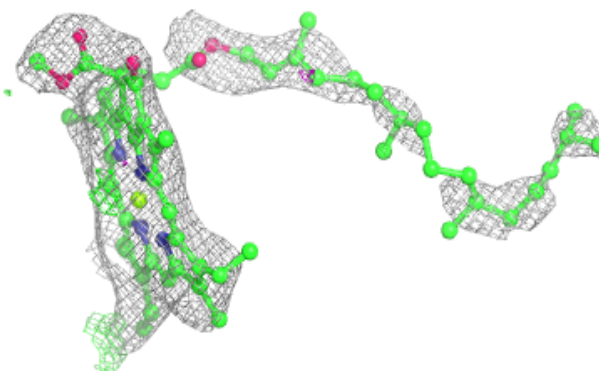


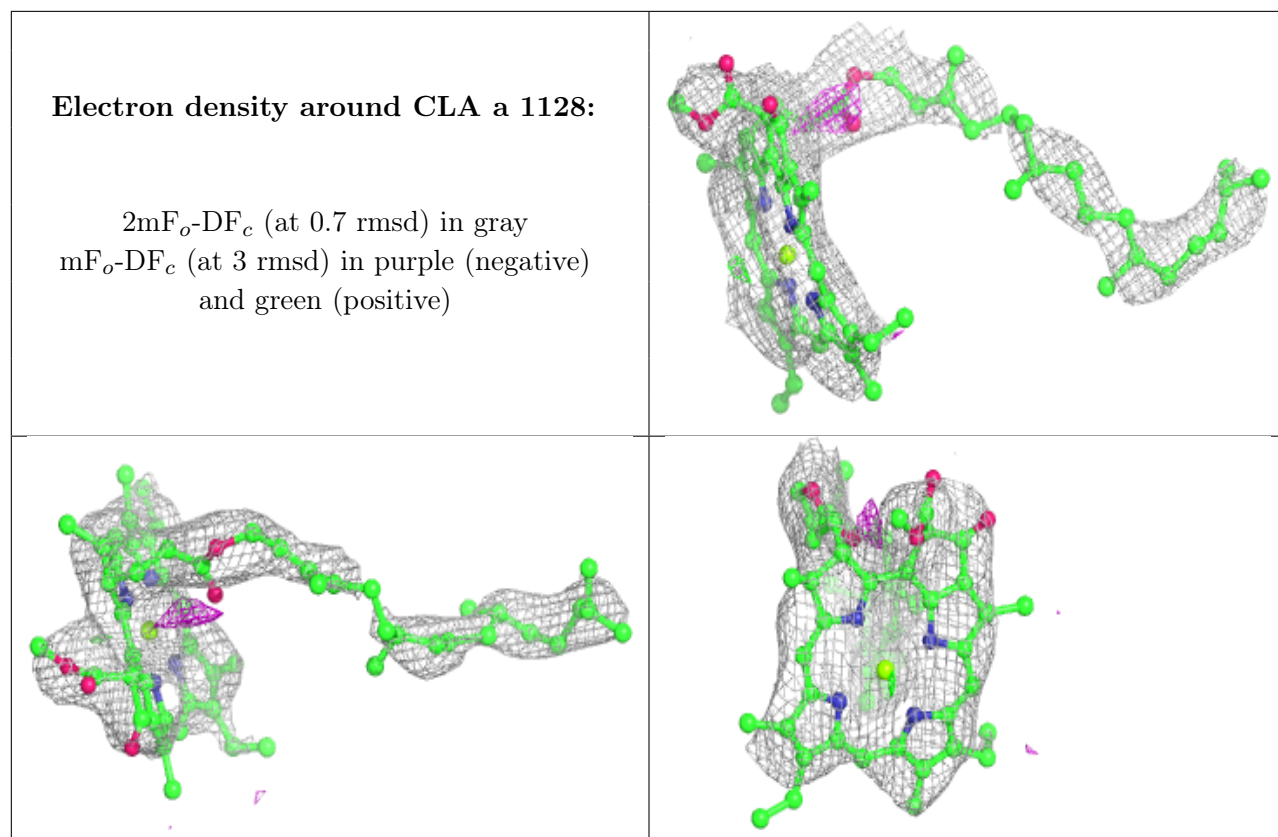
Electron density around CLA a 1106:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around CLA 1 1128:**

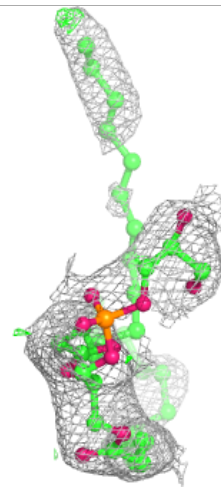
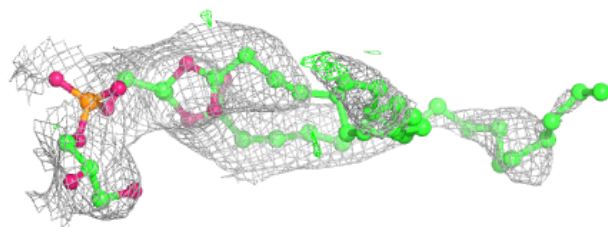
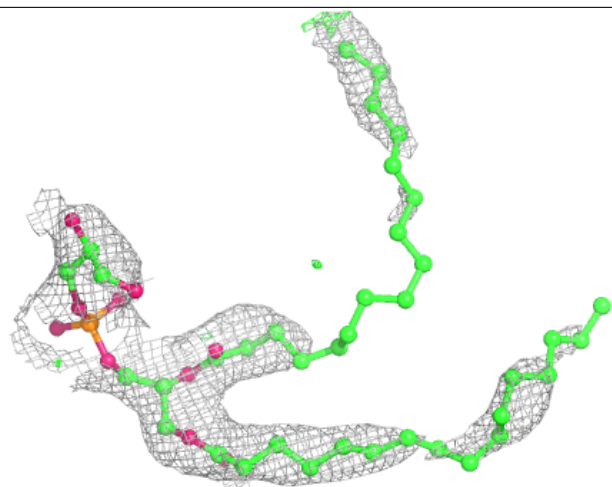
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





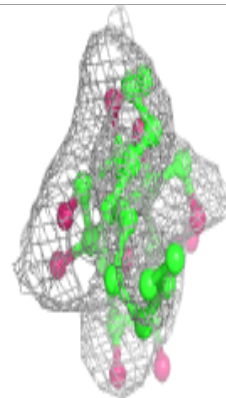
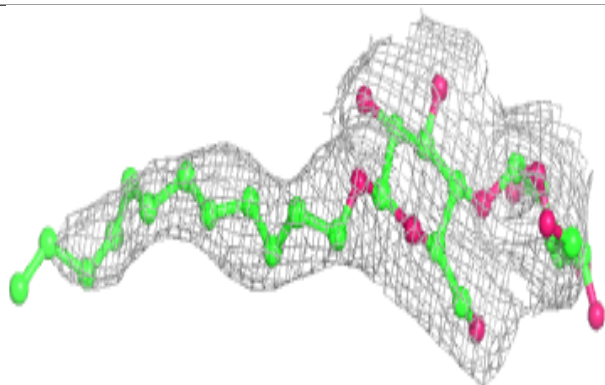
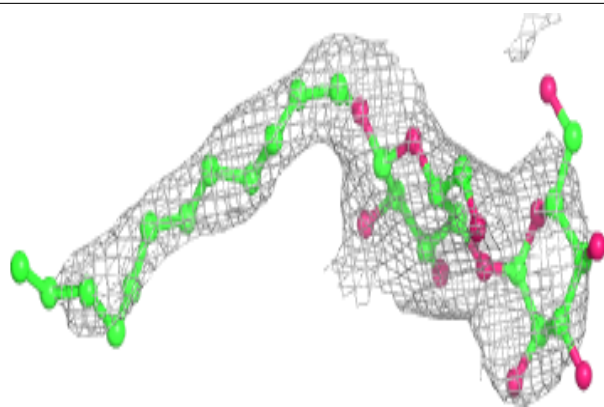
Electron density around LHG b 5004:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

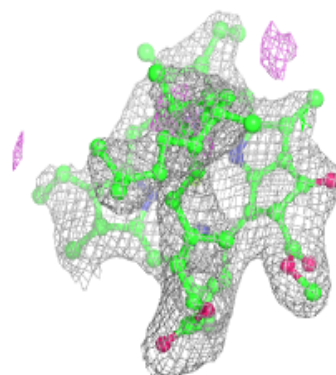
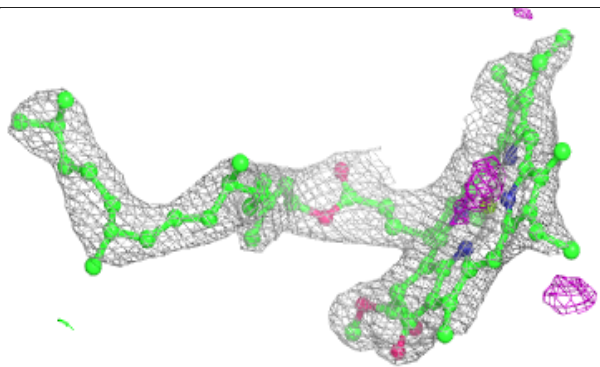
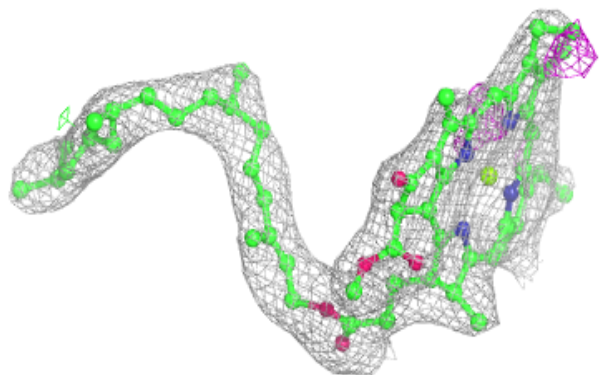


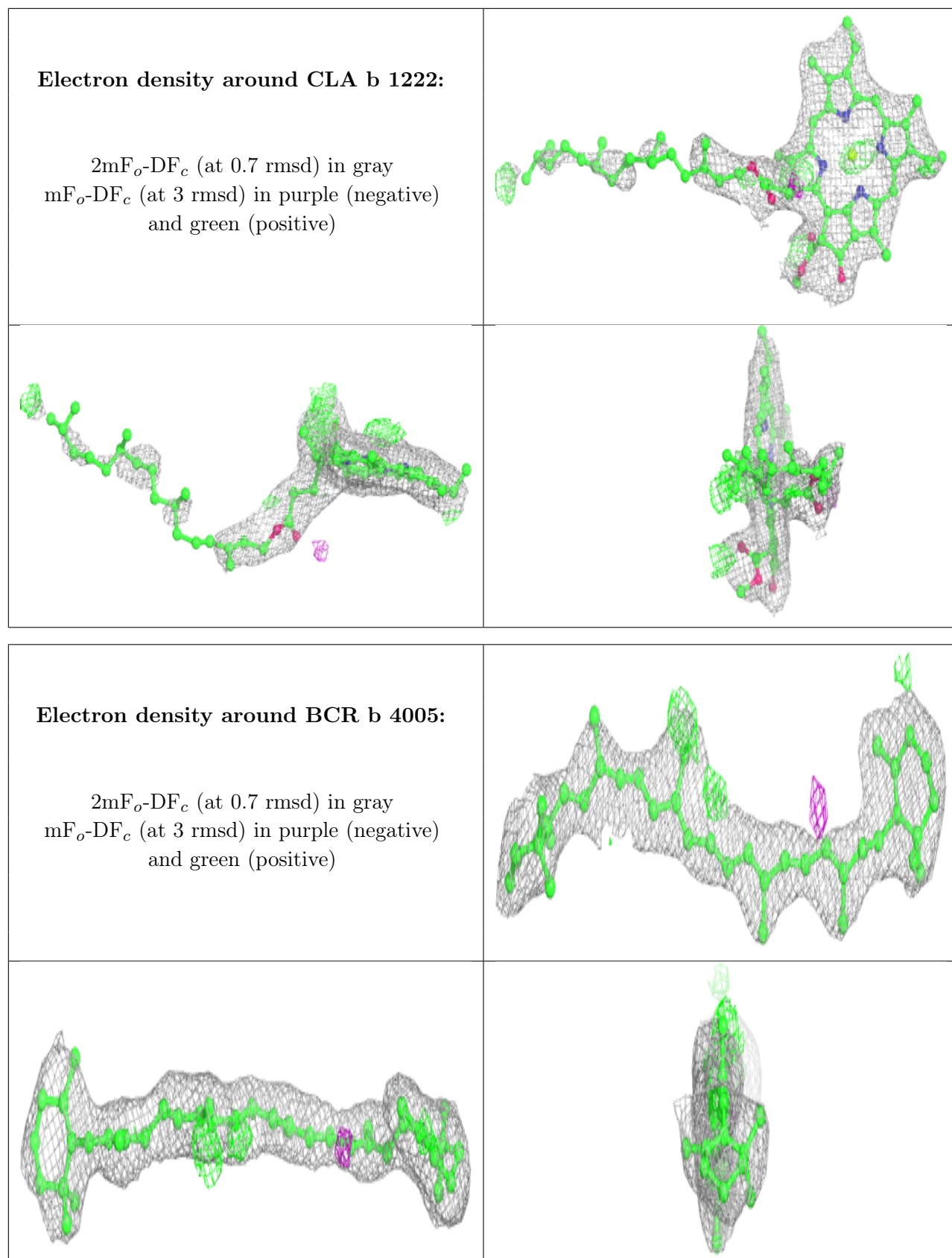
Electron density around LMT F 6001:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around CLA b 1021:**

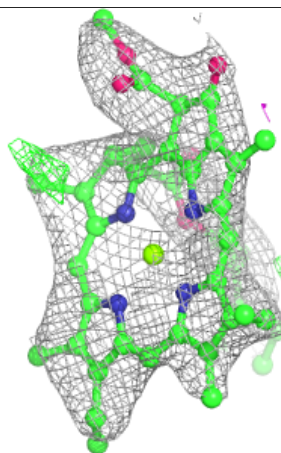
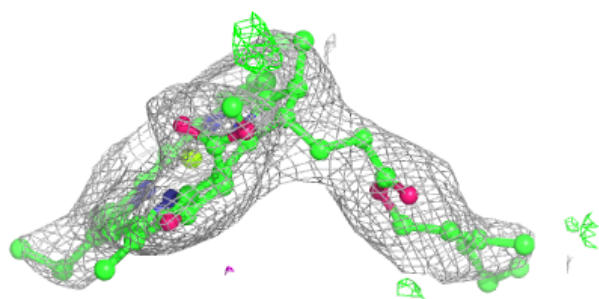
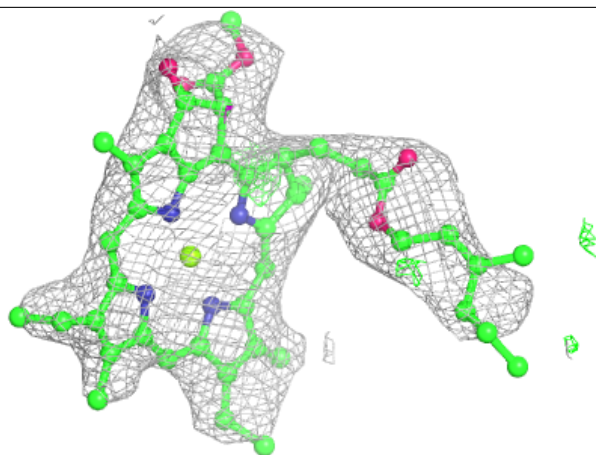
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



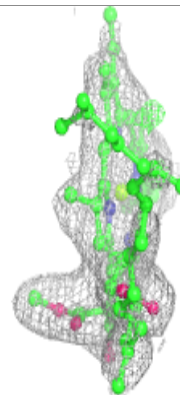
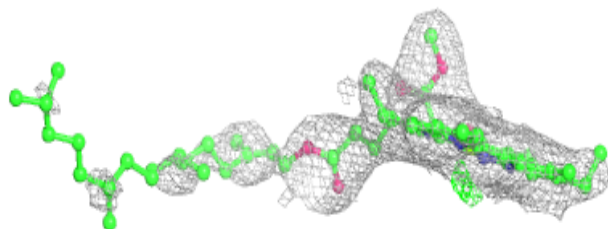
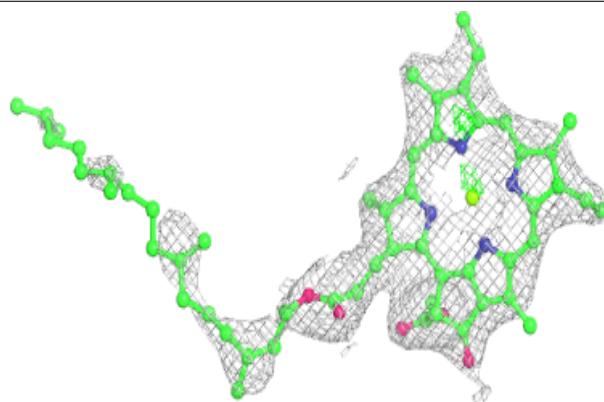


Electron density around CLA a 1129:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

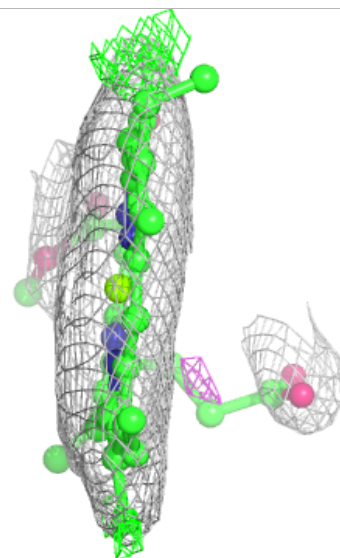
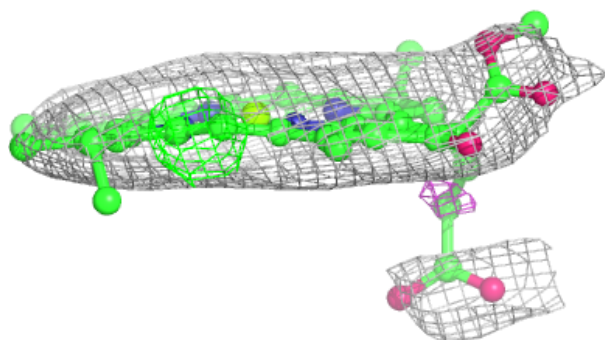
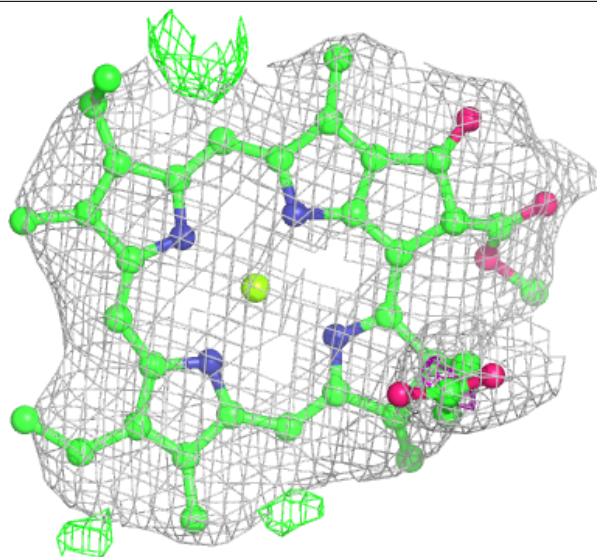
**Electron density around CLA B 1234:**

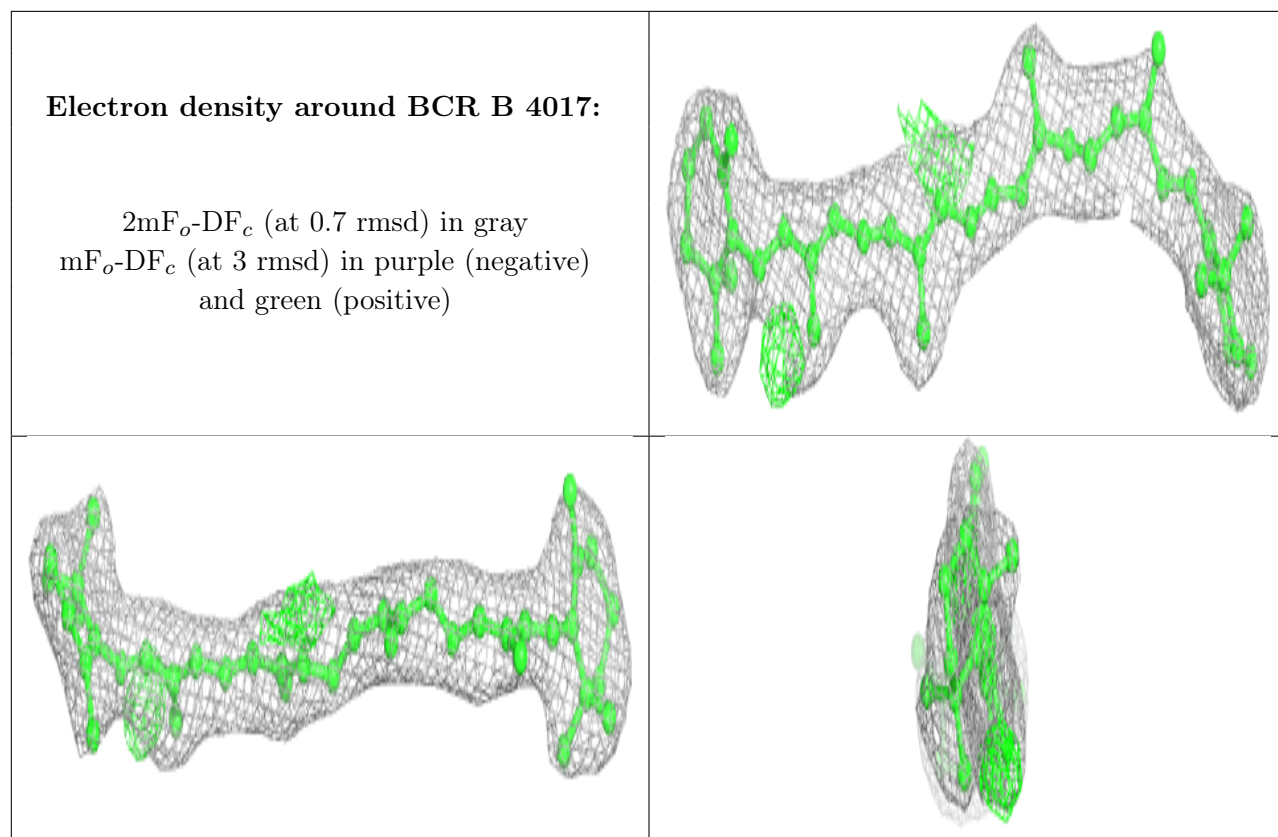
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA 2 1228:

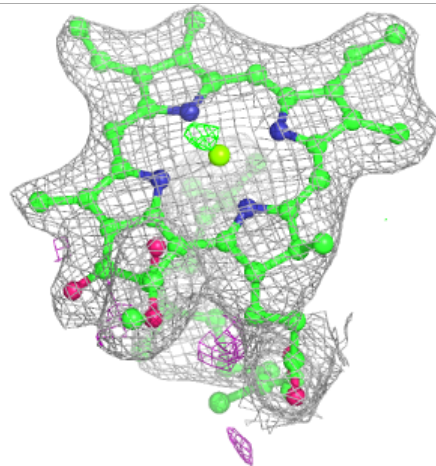
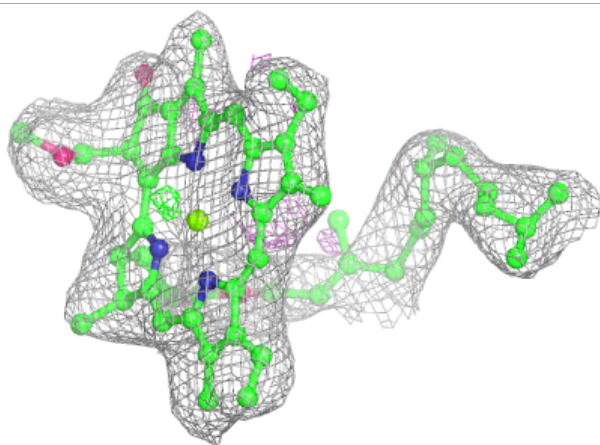
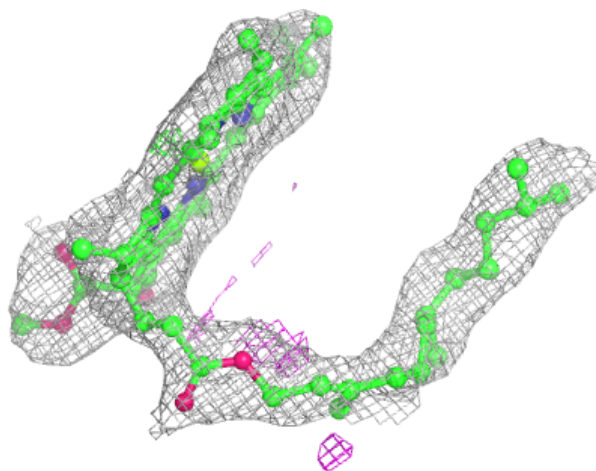
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





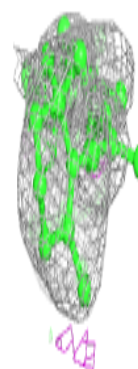
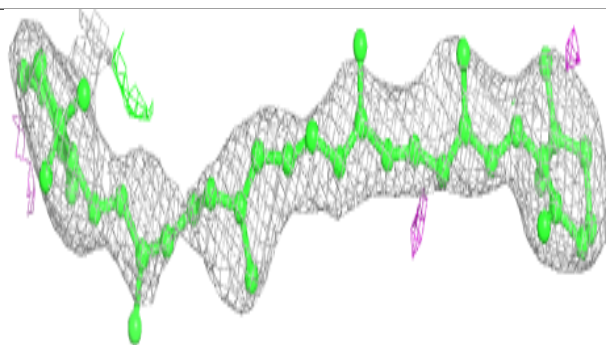
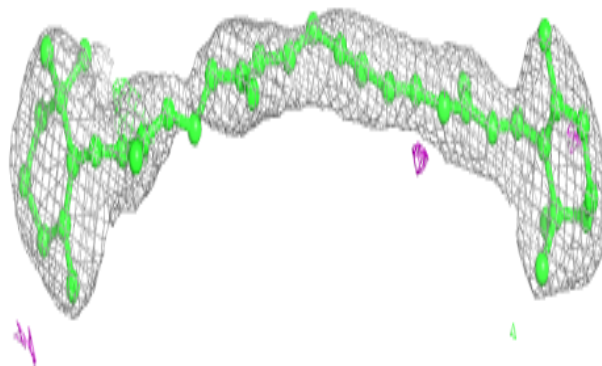
Electron density around CLA b 1208:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

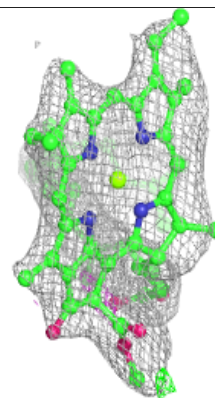
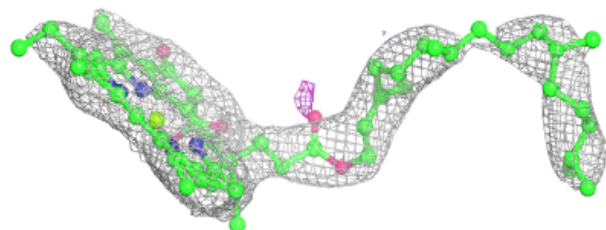
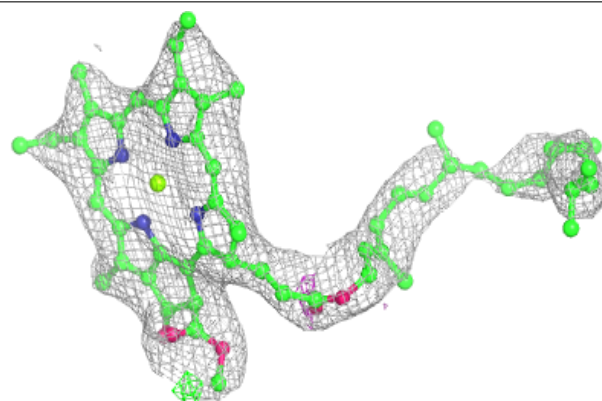


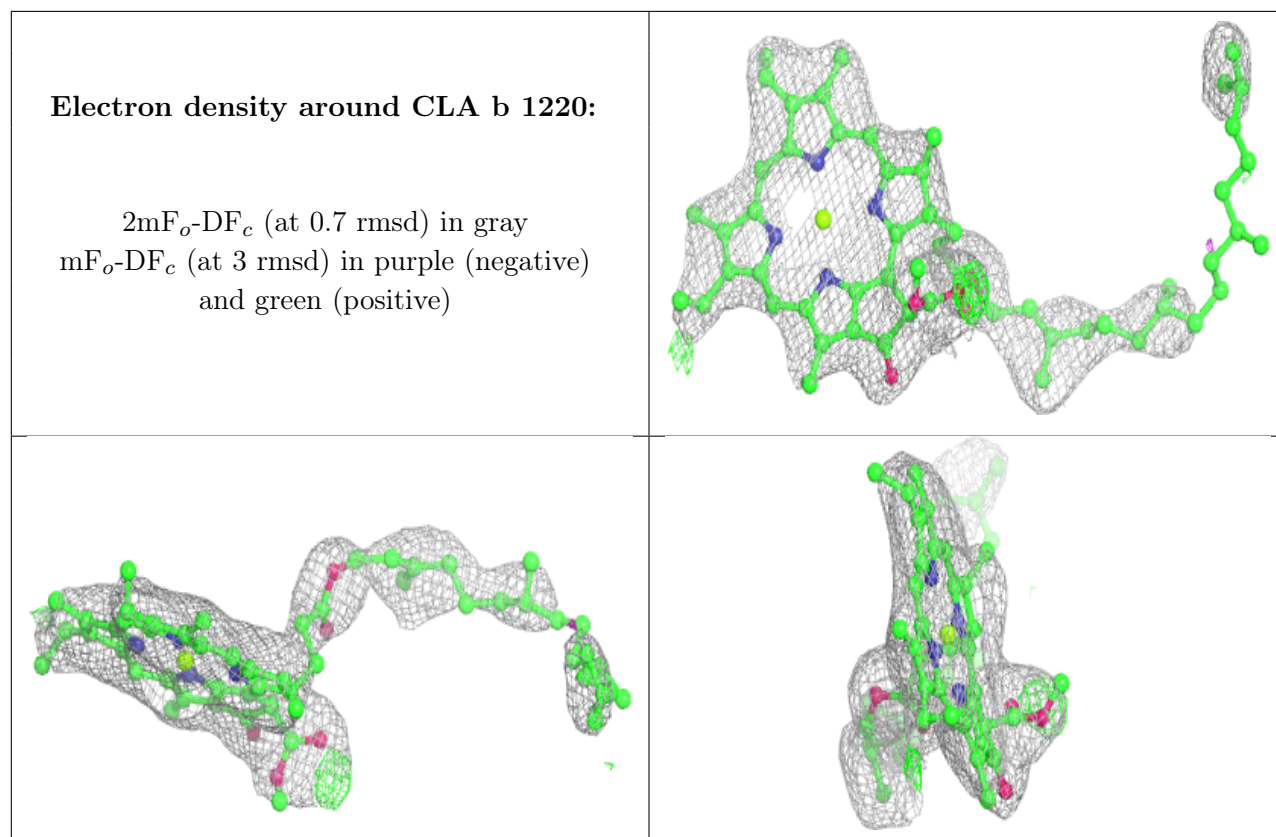
Electron density around BCR J 4013:

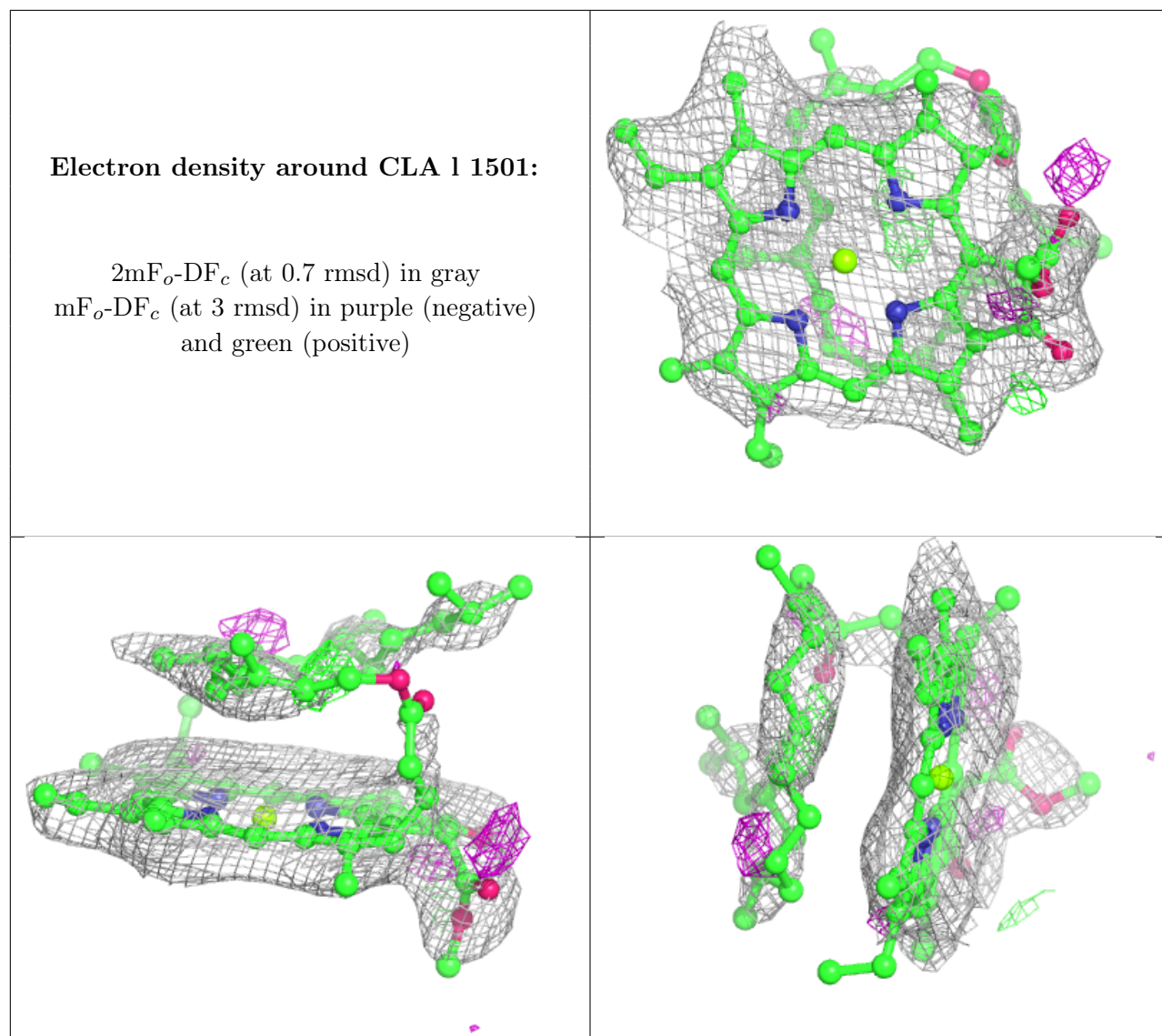
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around CLA 2 1206:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

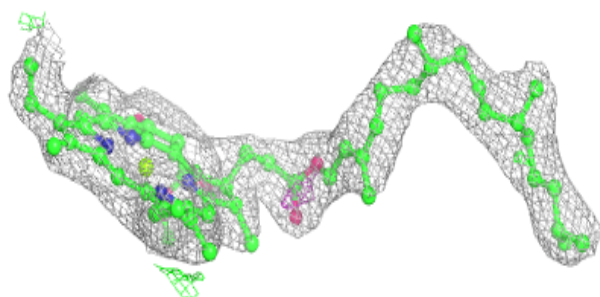
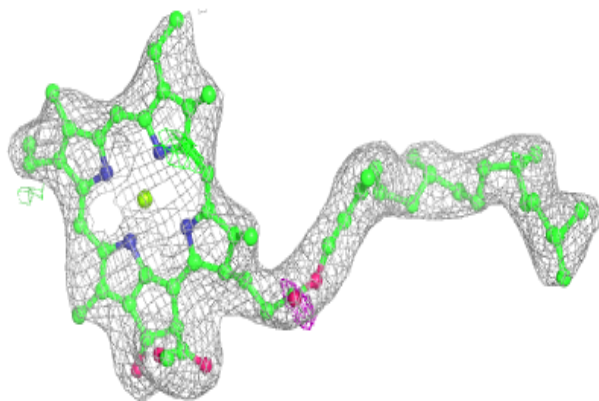




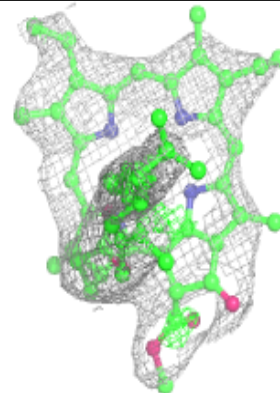
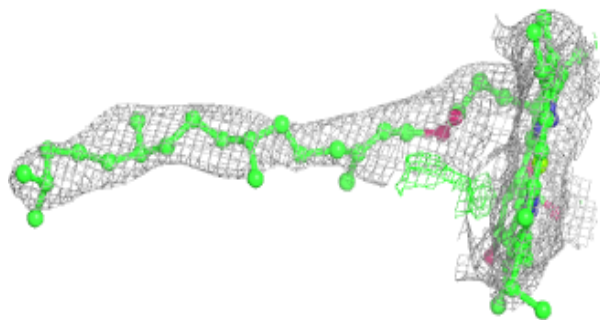
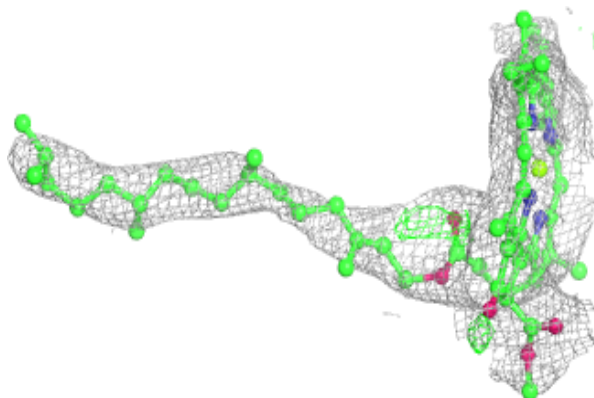


Electron density around CLA B 1210:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

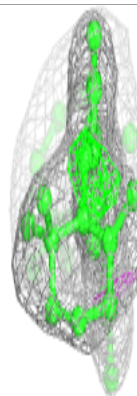
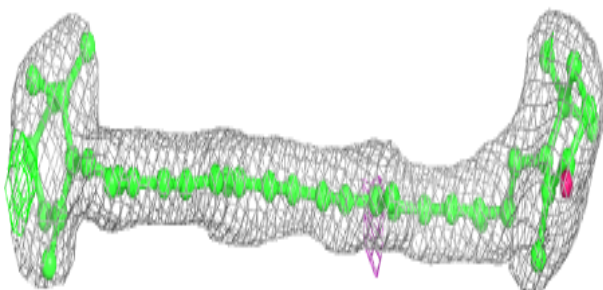
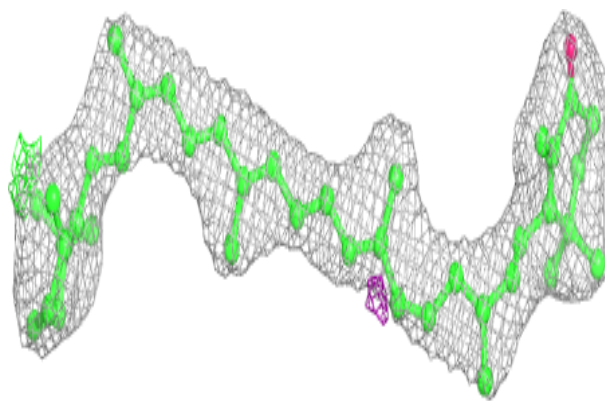
**Electron density around CLA a 1126:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

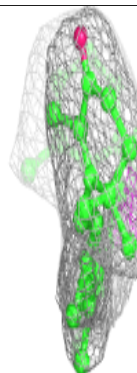
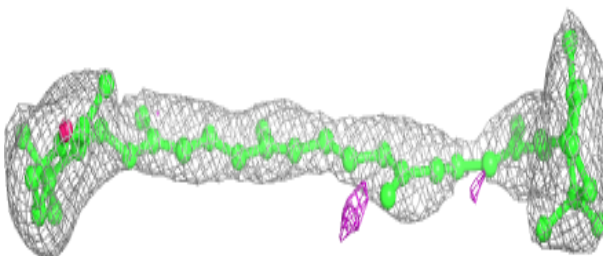
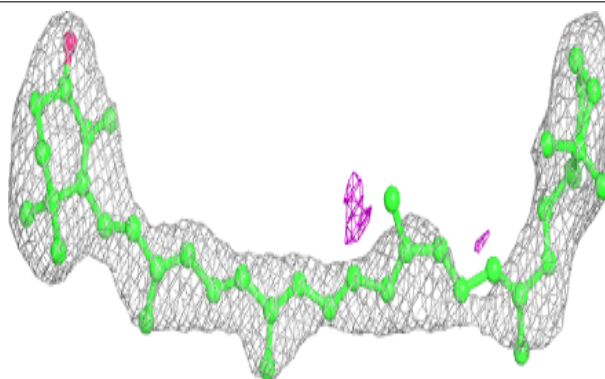


Electron density around ECH b 4006:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

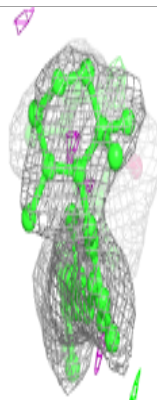
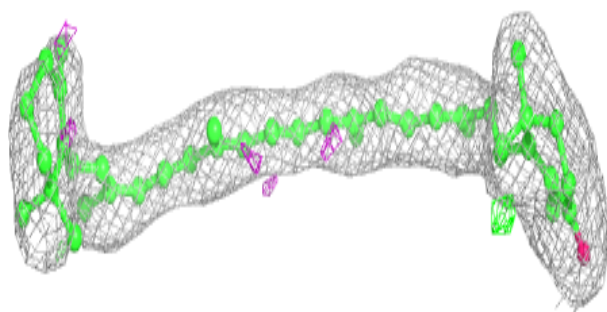
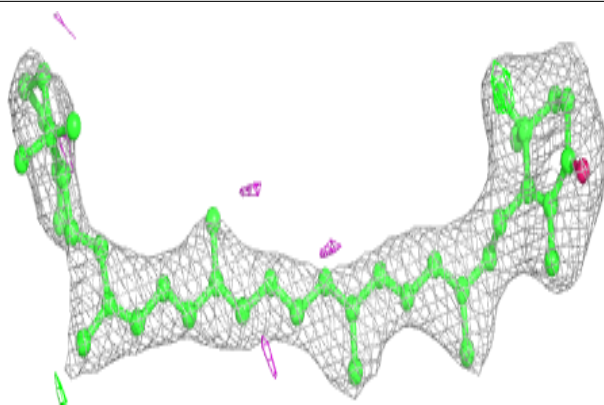
**Electron density around ECH i 4020:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

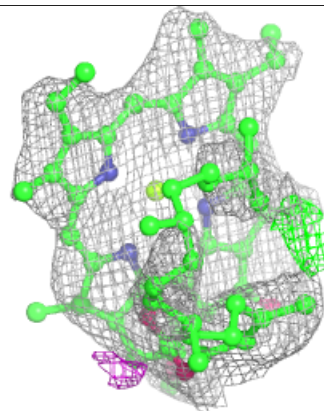
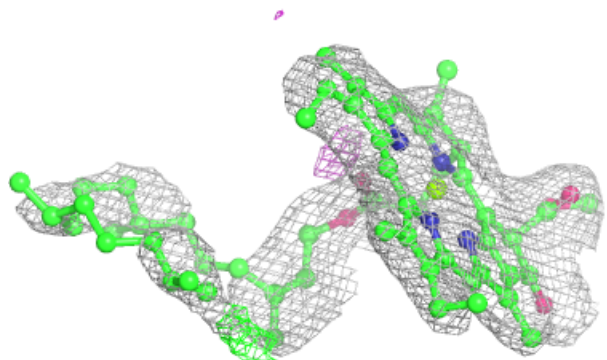
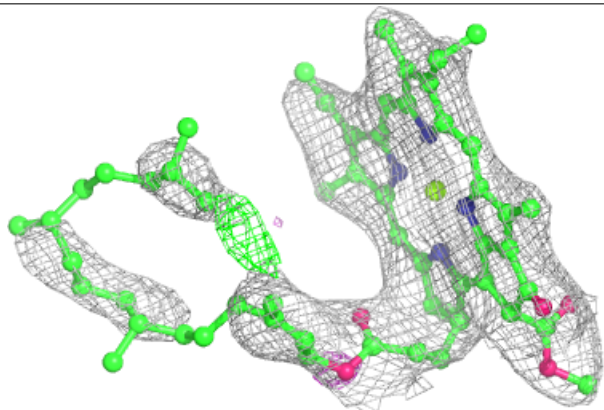


Electron density around ECH m 4021:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

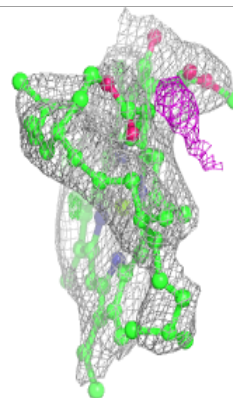
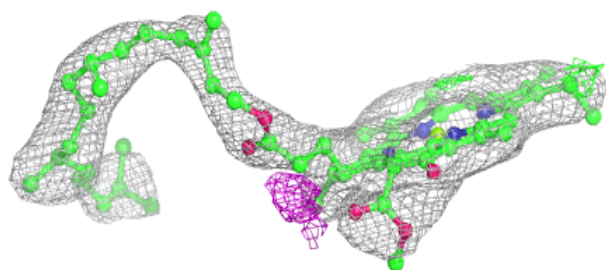
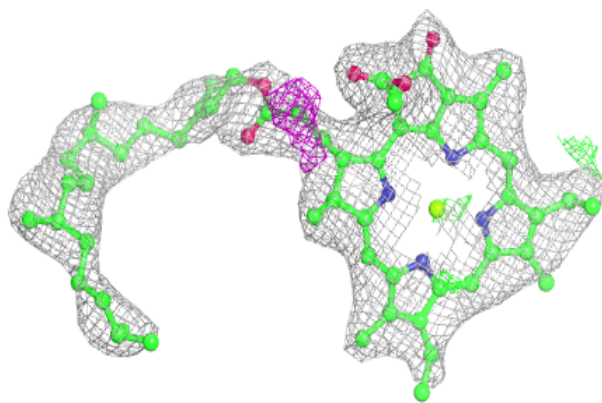
**Electron density around CLA b 1228:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

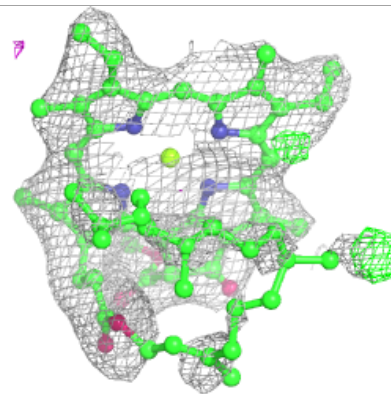
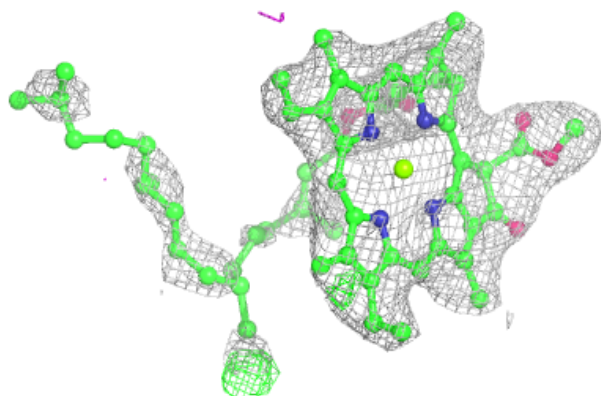
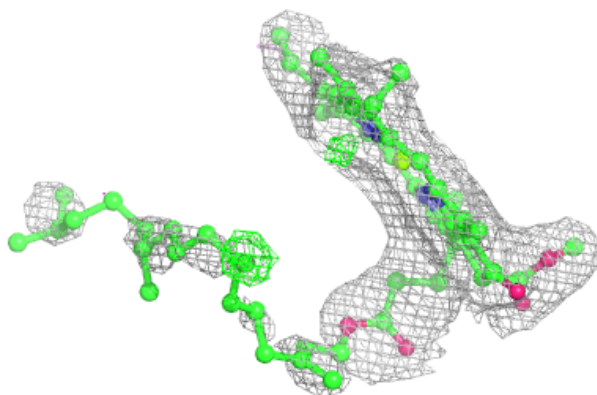


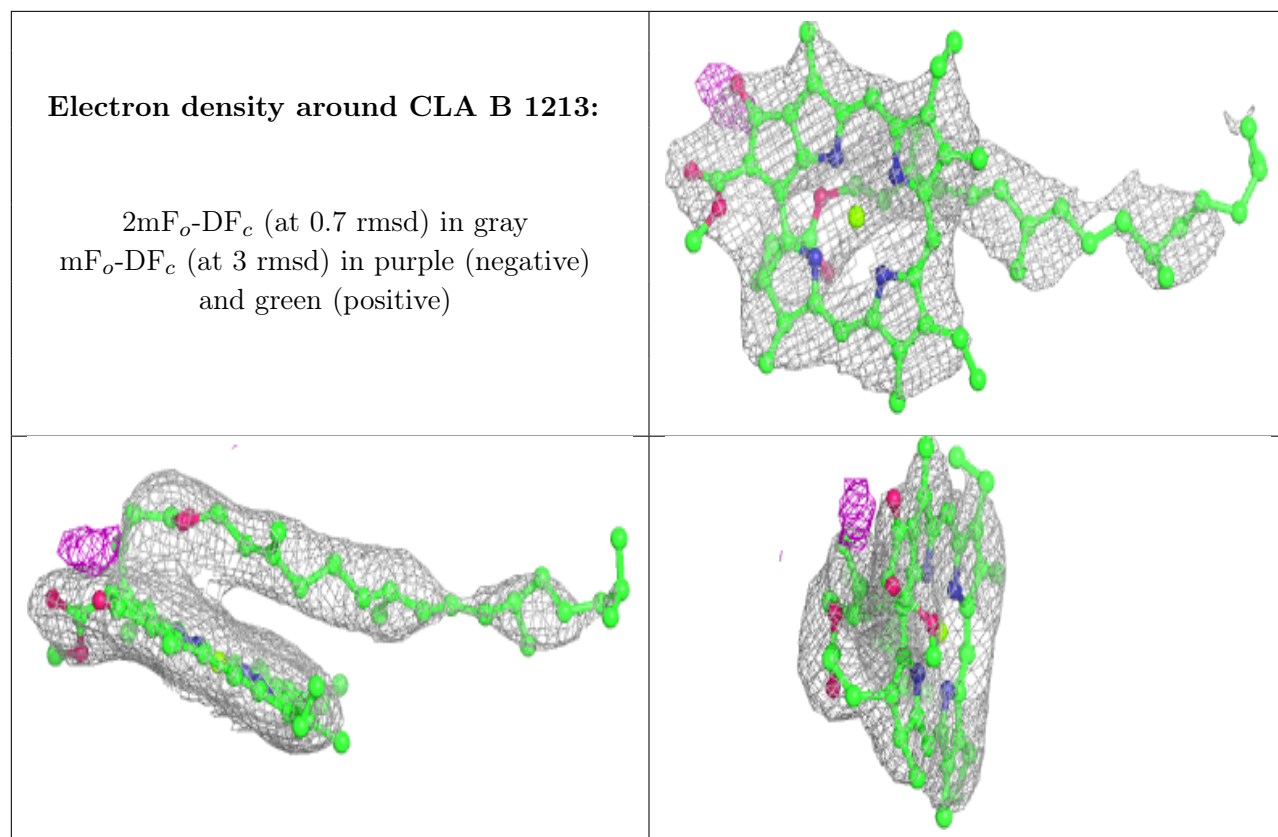
Electron density around CLA 1 1125:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around CLA B 1211:**

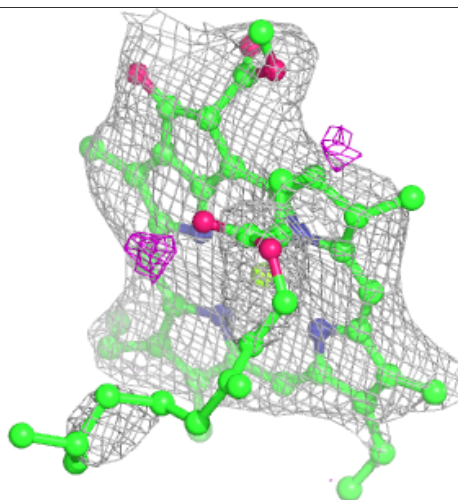
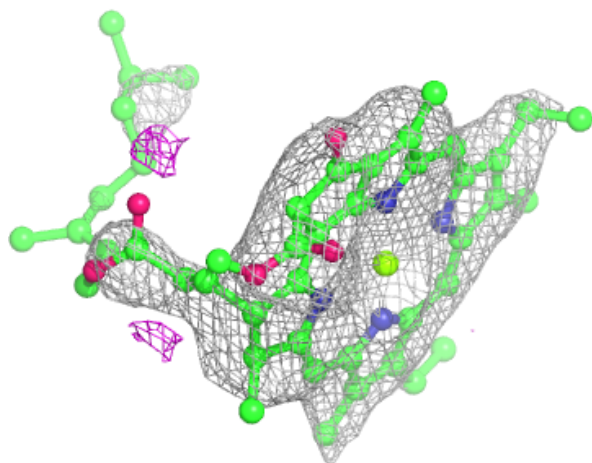
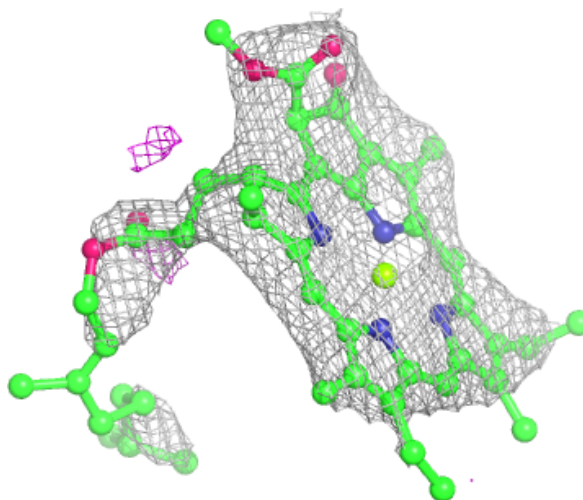
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

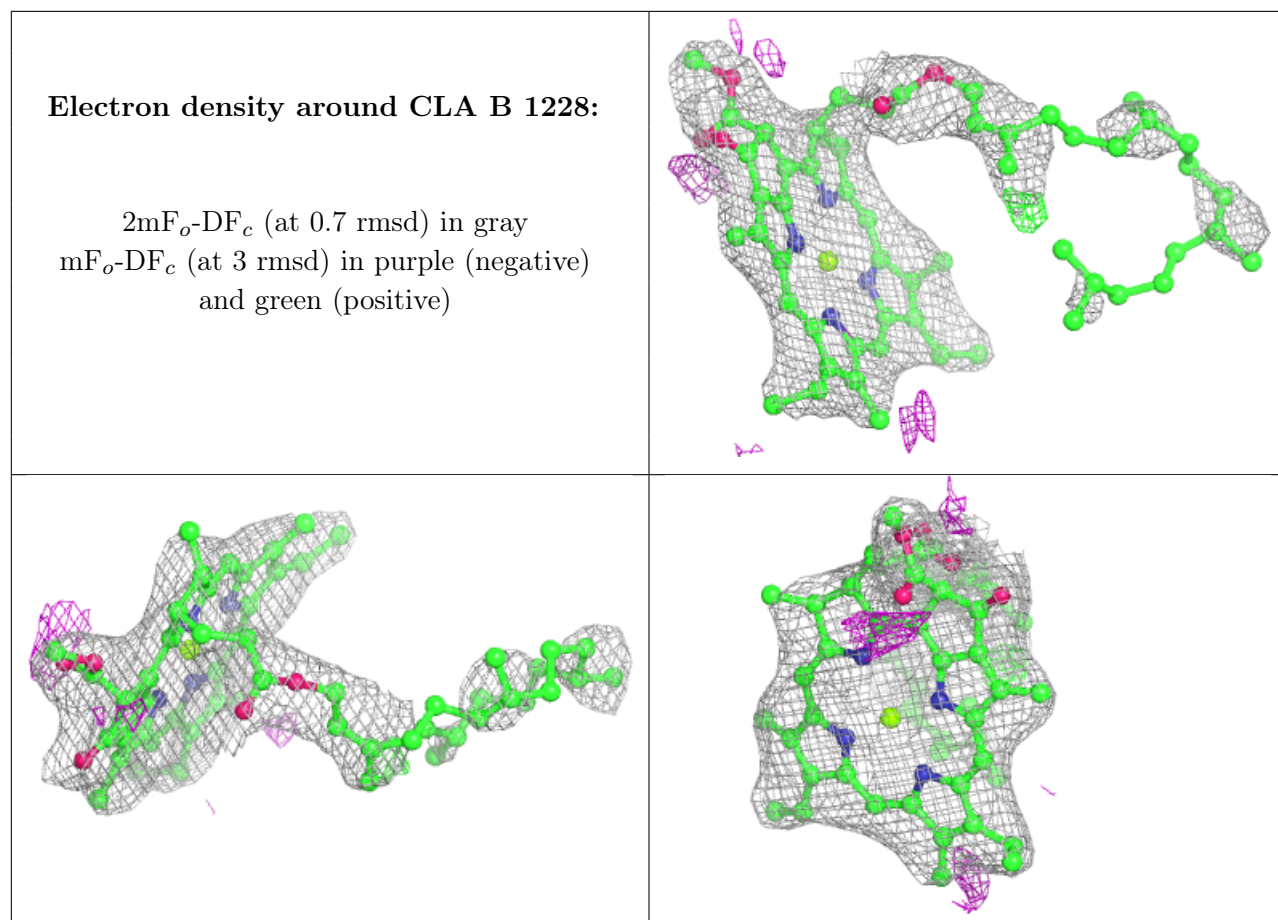




Electron density around CLA B 1227:

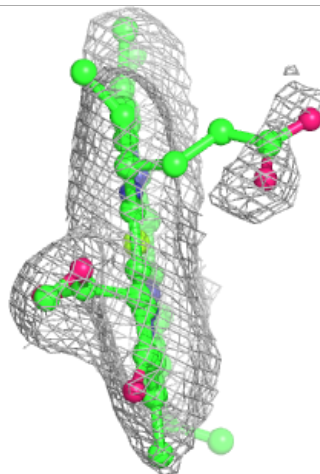
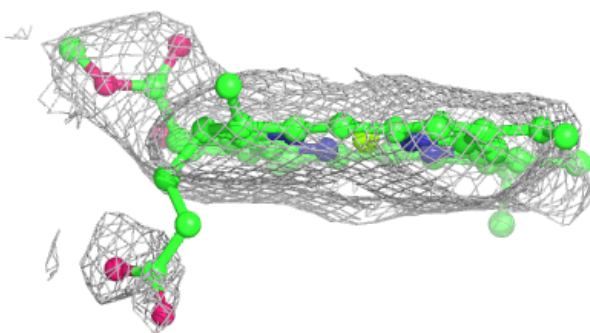
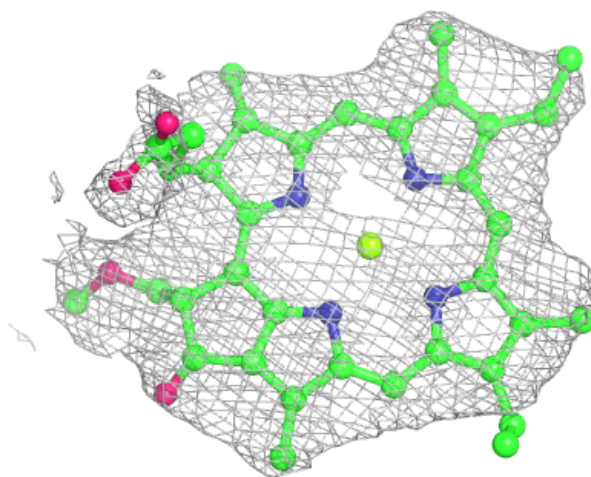
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





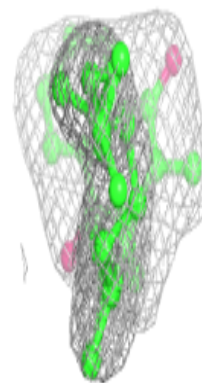
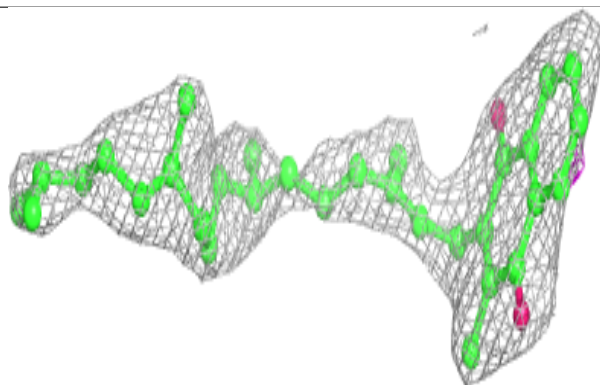
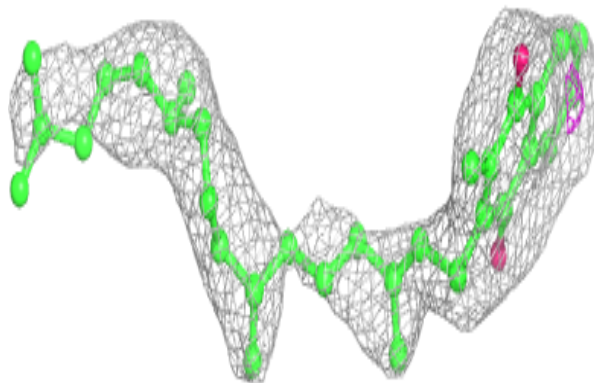
Electron density around CLA 8 1401:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

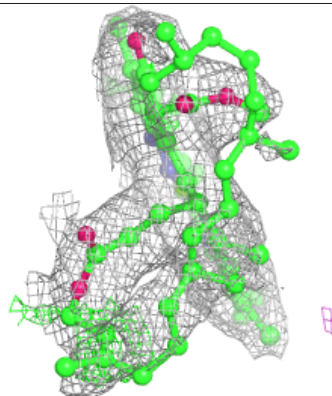
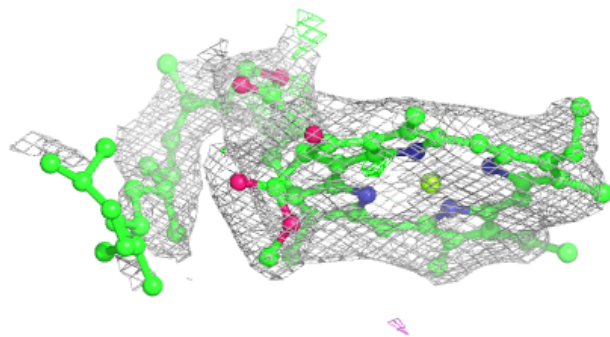
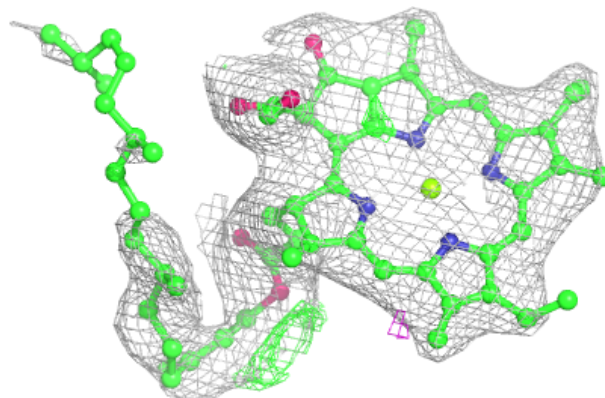


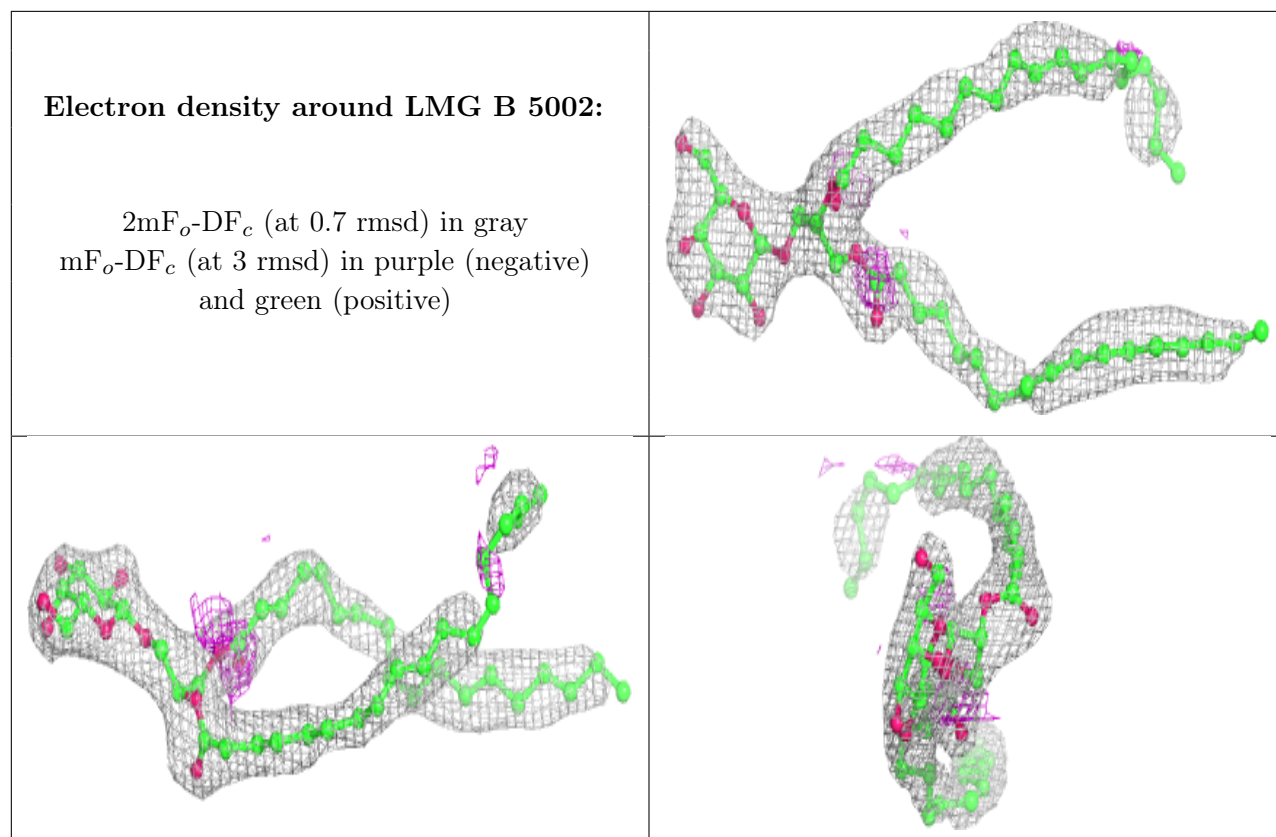
Electron density around PQN a 2001:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around CLA K 1402:**

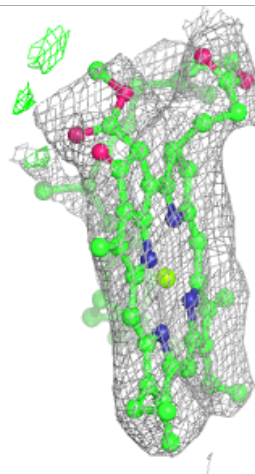
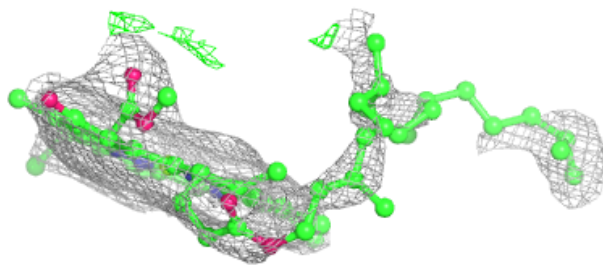
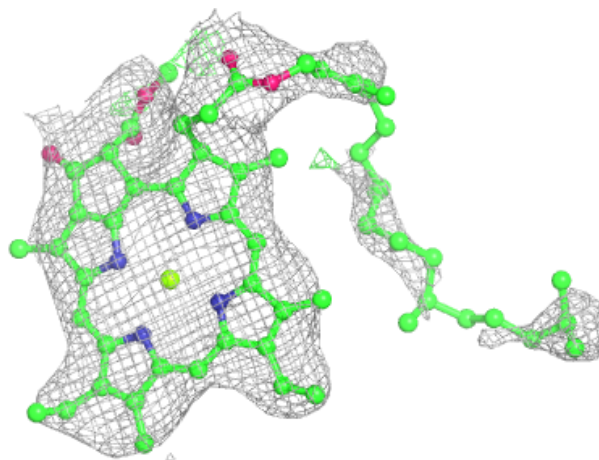
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

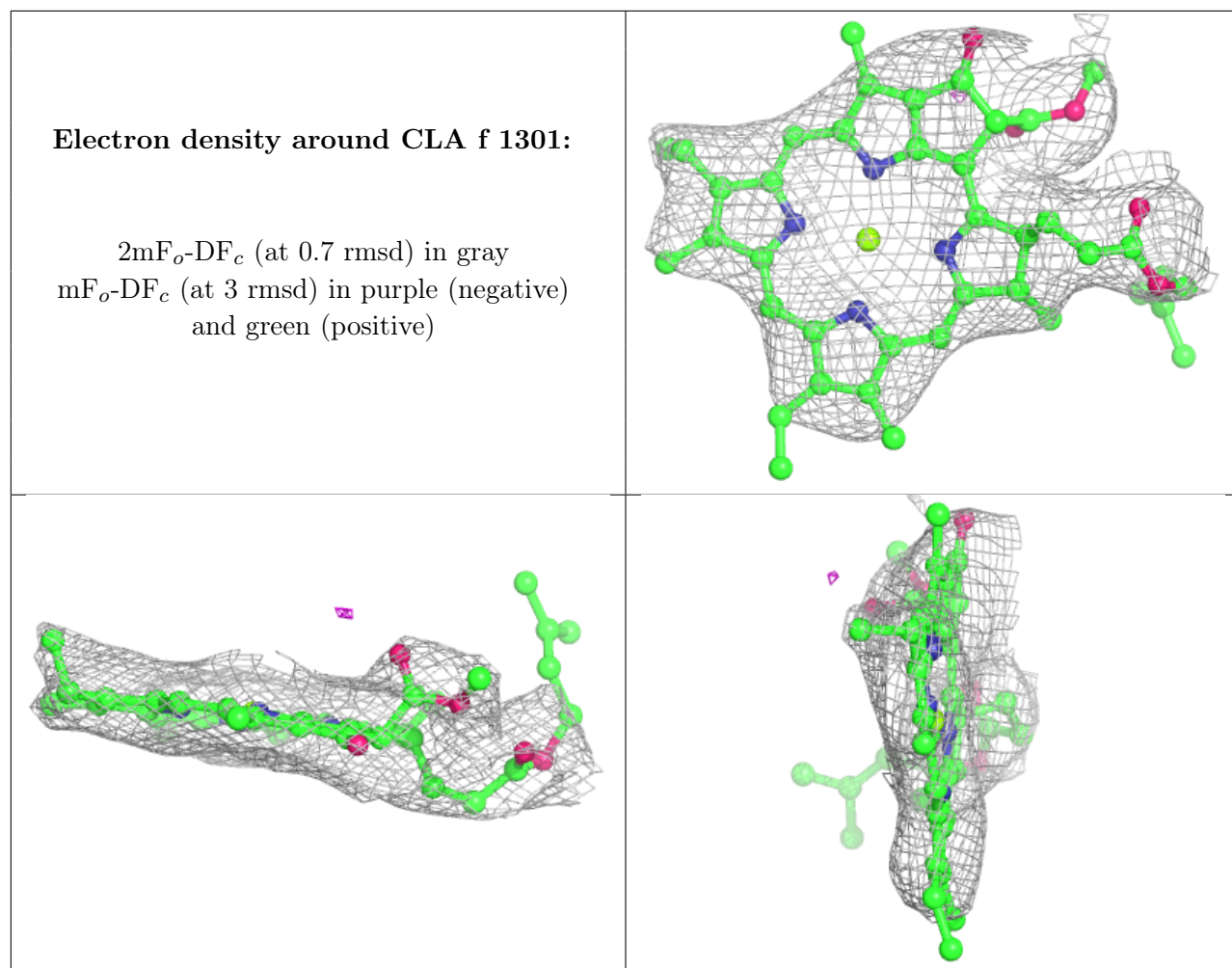




Electron density around CLA 1 1111:

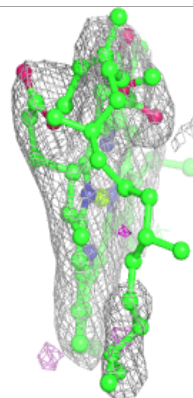
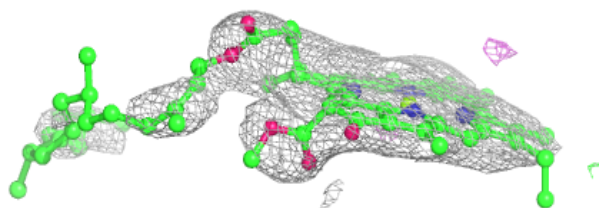
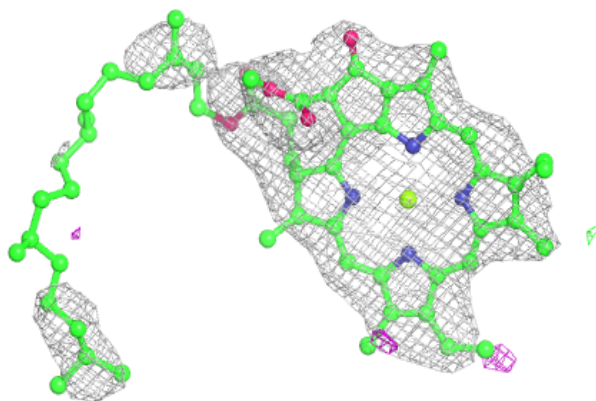
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



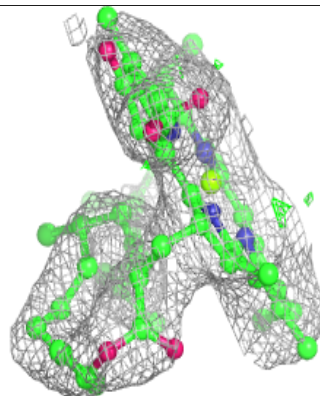
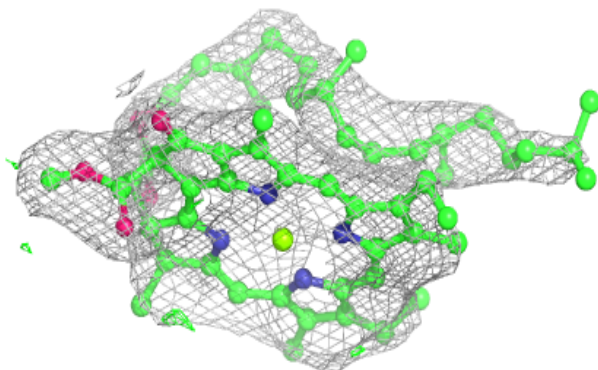
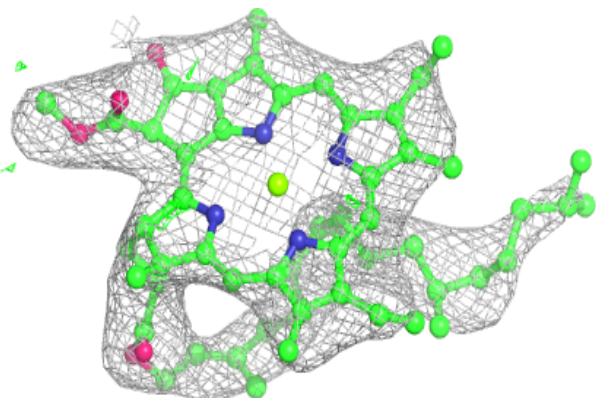


Electron density around CLA 1 1101:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

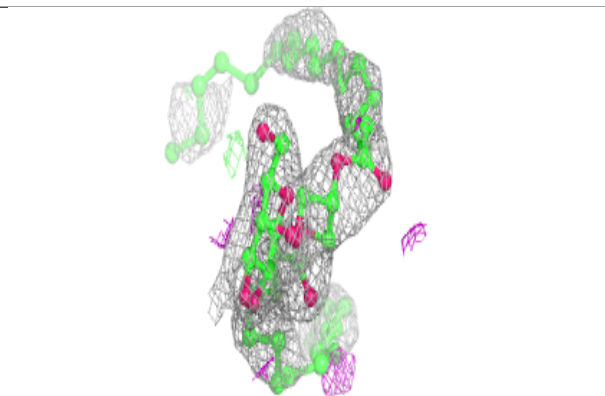
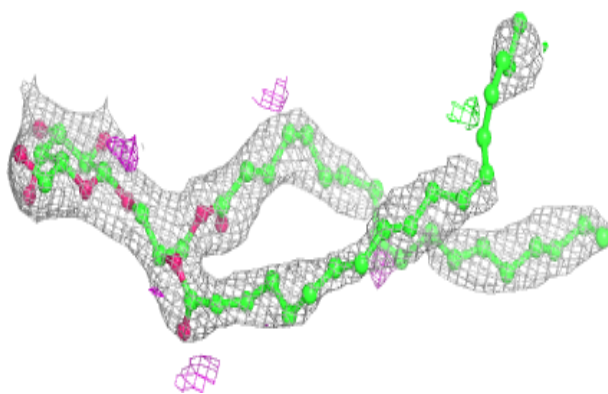
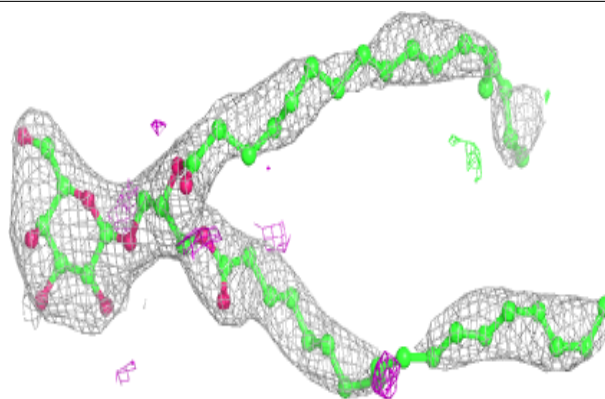
**Electron density around CLA B 1214:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

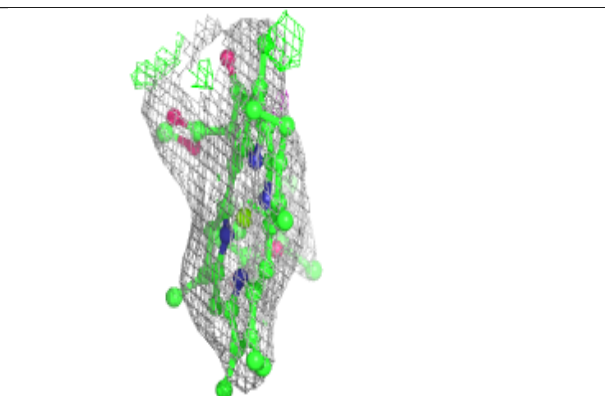
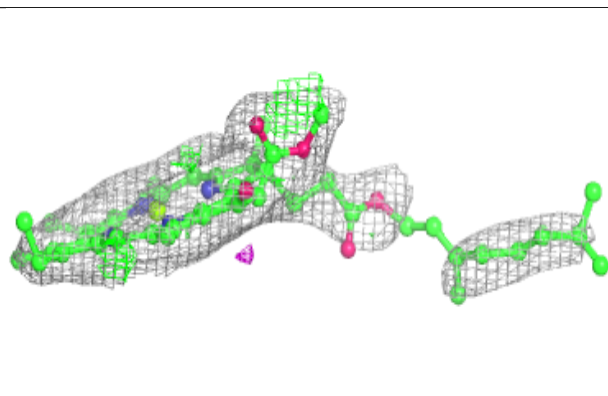
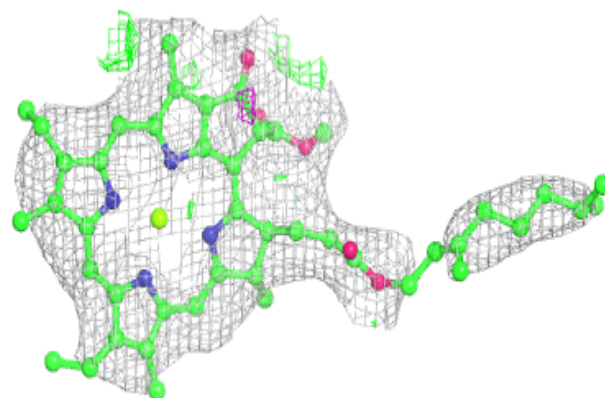


Electron density around LMG b 5002:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

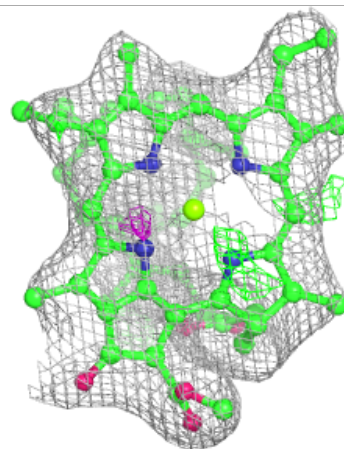
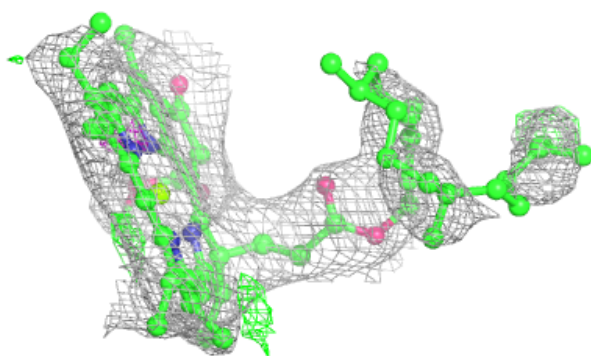
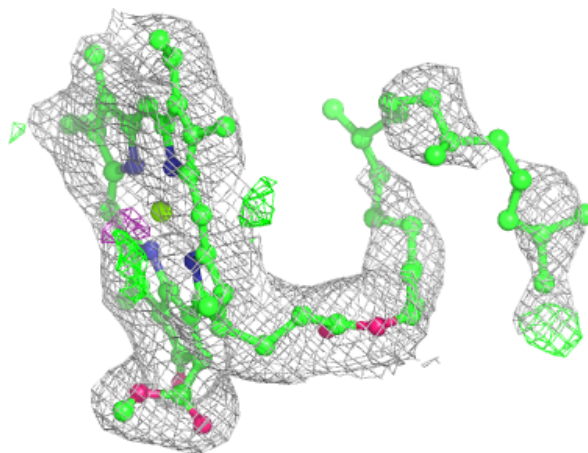
**Electron density around CLA 2 1223:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



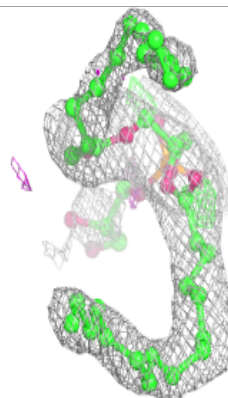
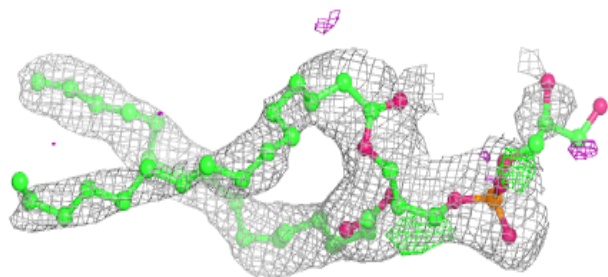
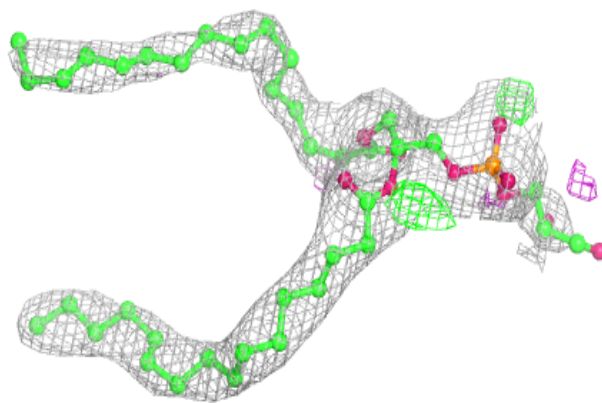
Electron density around CLA A 1112:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

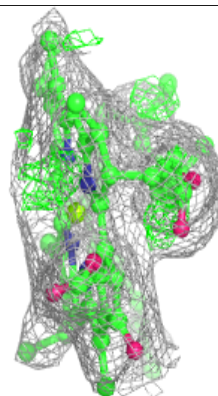
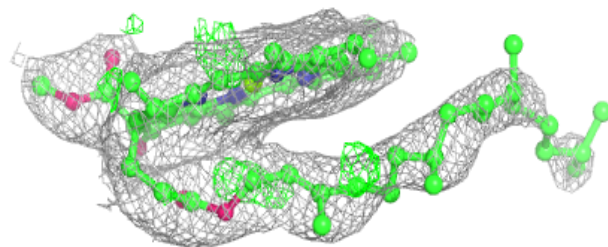
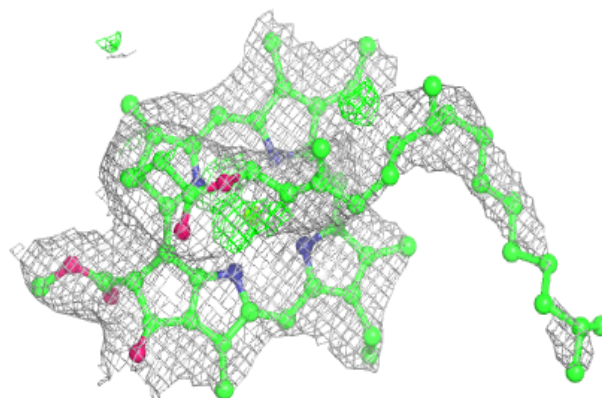


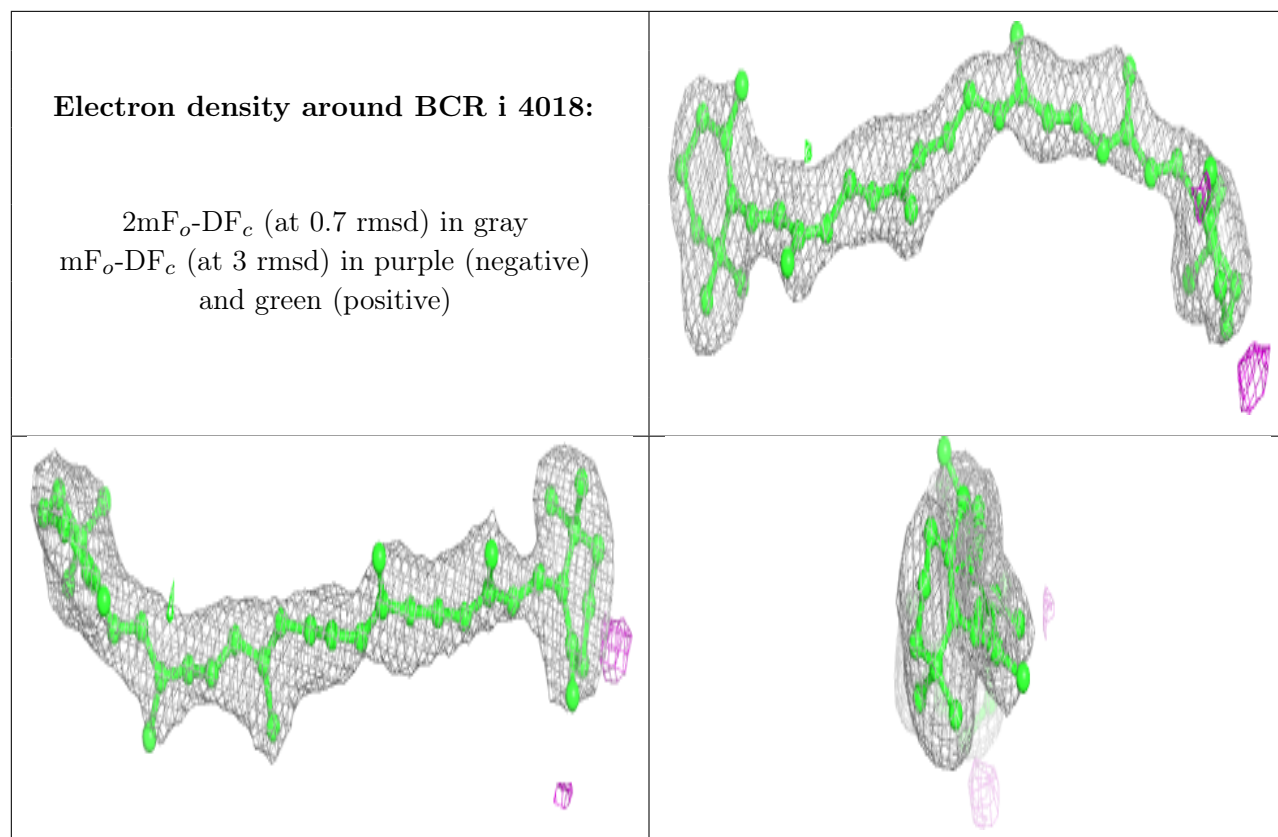
Electron density around LHG a 5001:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around CLA B 1235:**

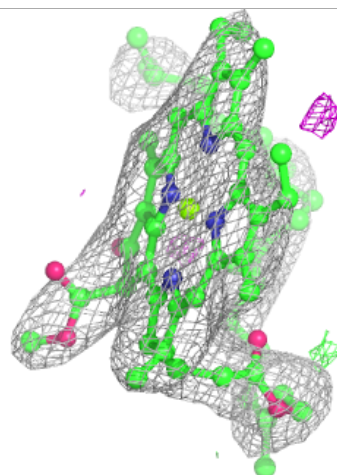
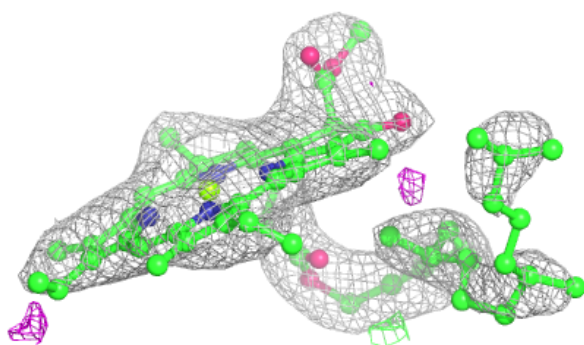
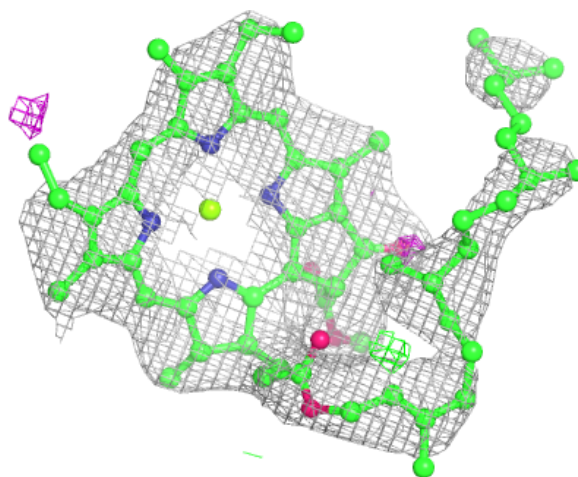
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

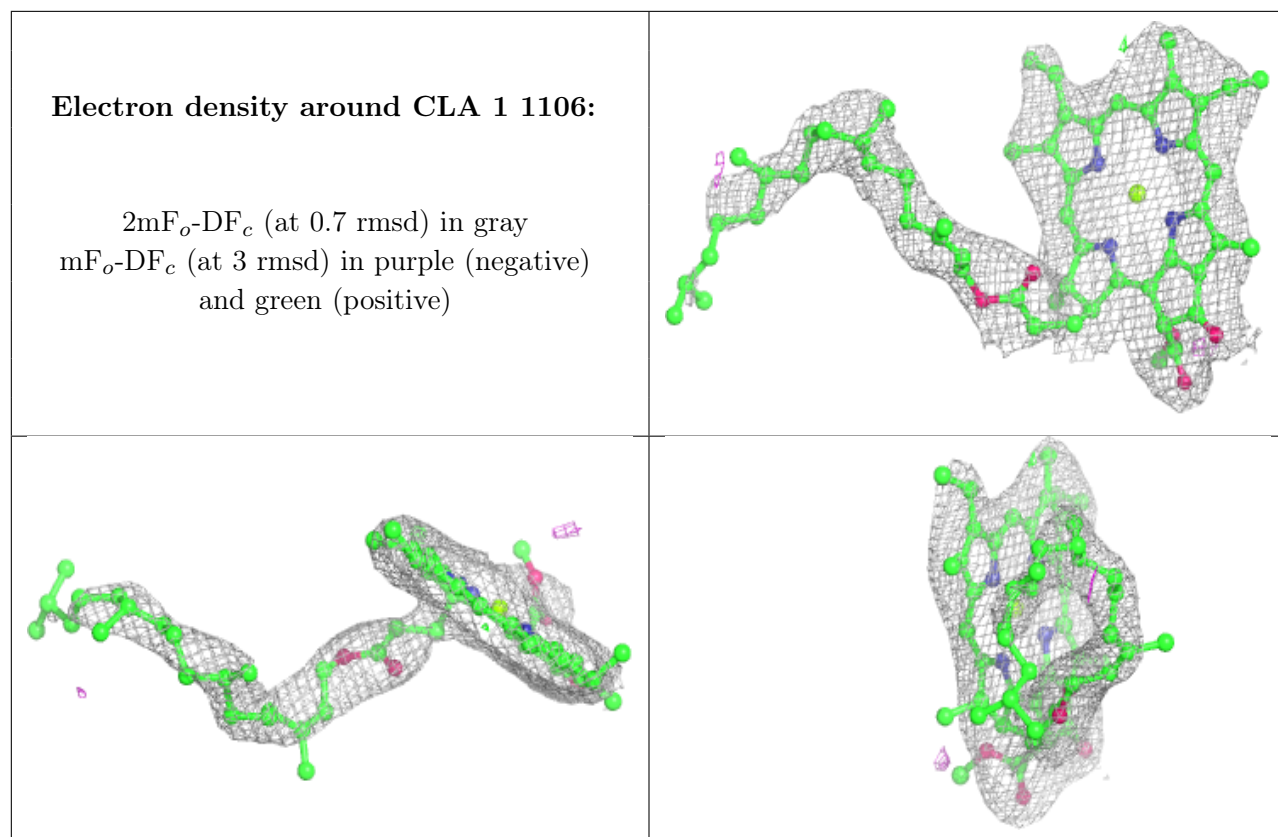




Electron density around CLA b 1229:

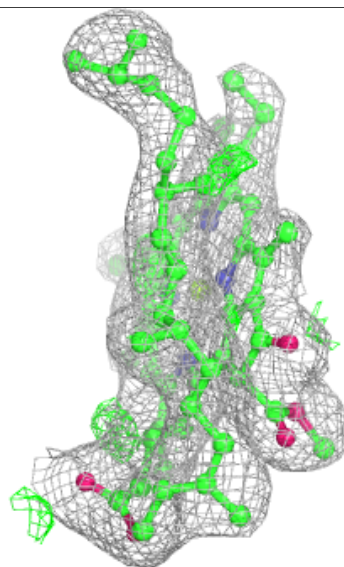
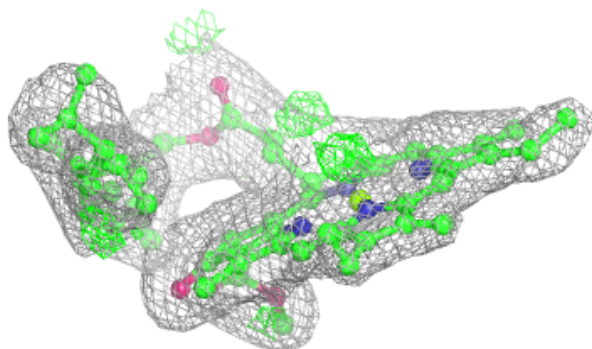
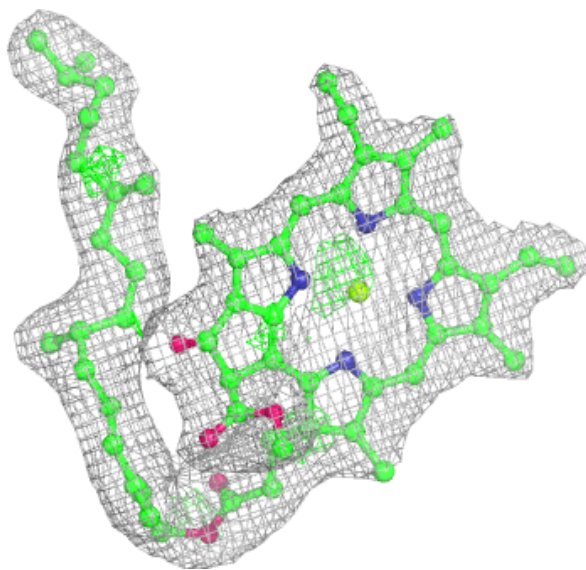
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





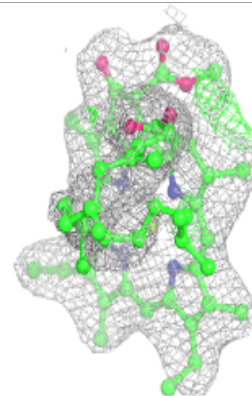
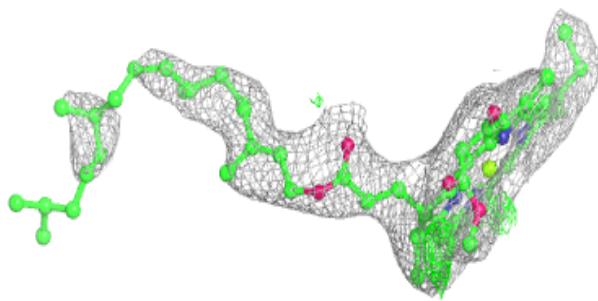
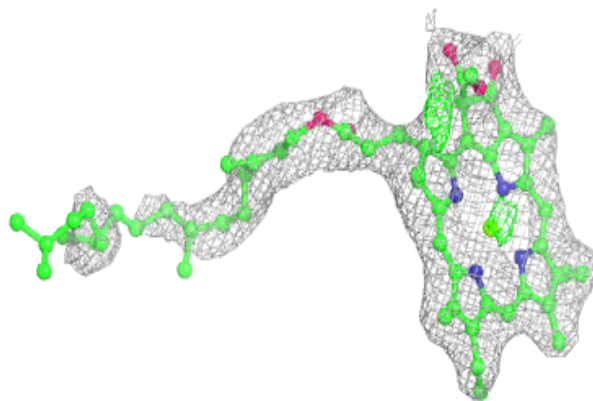
Electron density around CLA A 1123:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

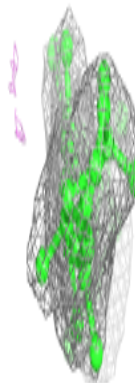
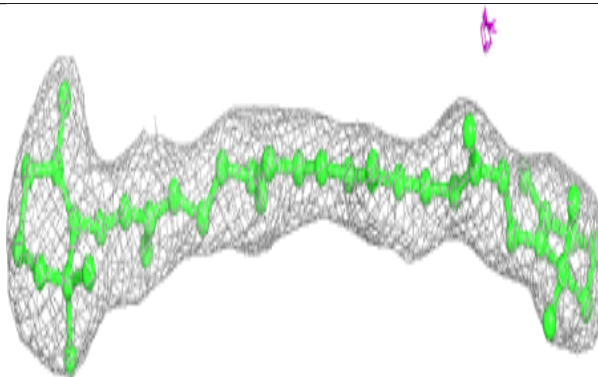
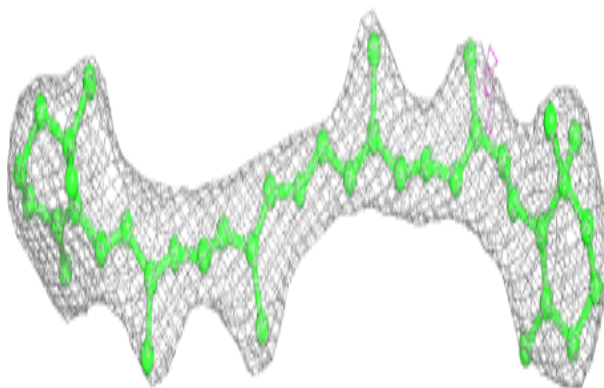


Electron density around CLA B 1230:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

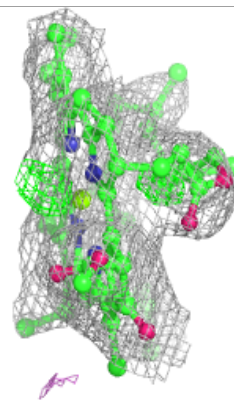
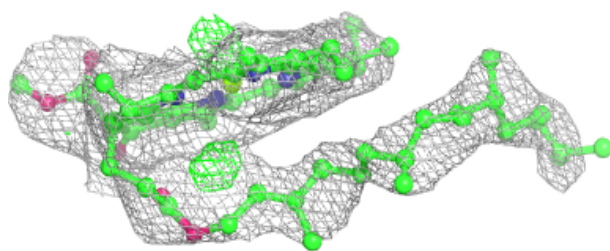
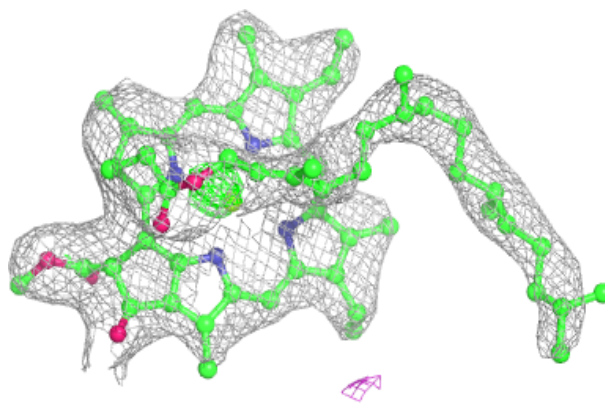
**Electron density around BCR A 4012:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

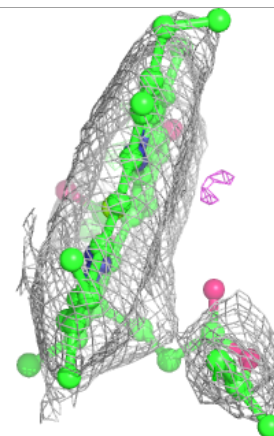
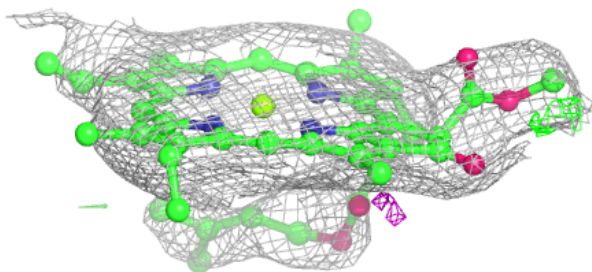
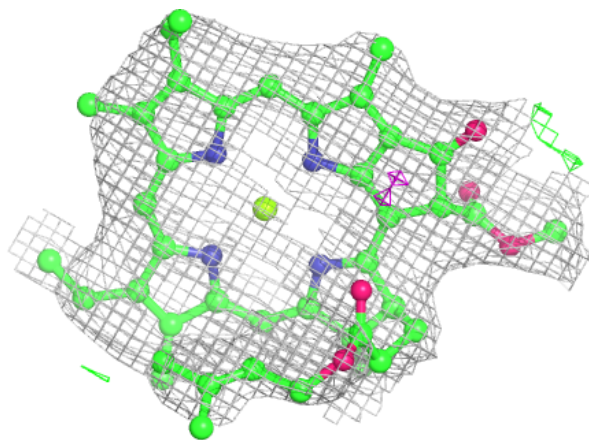


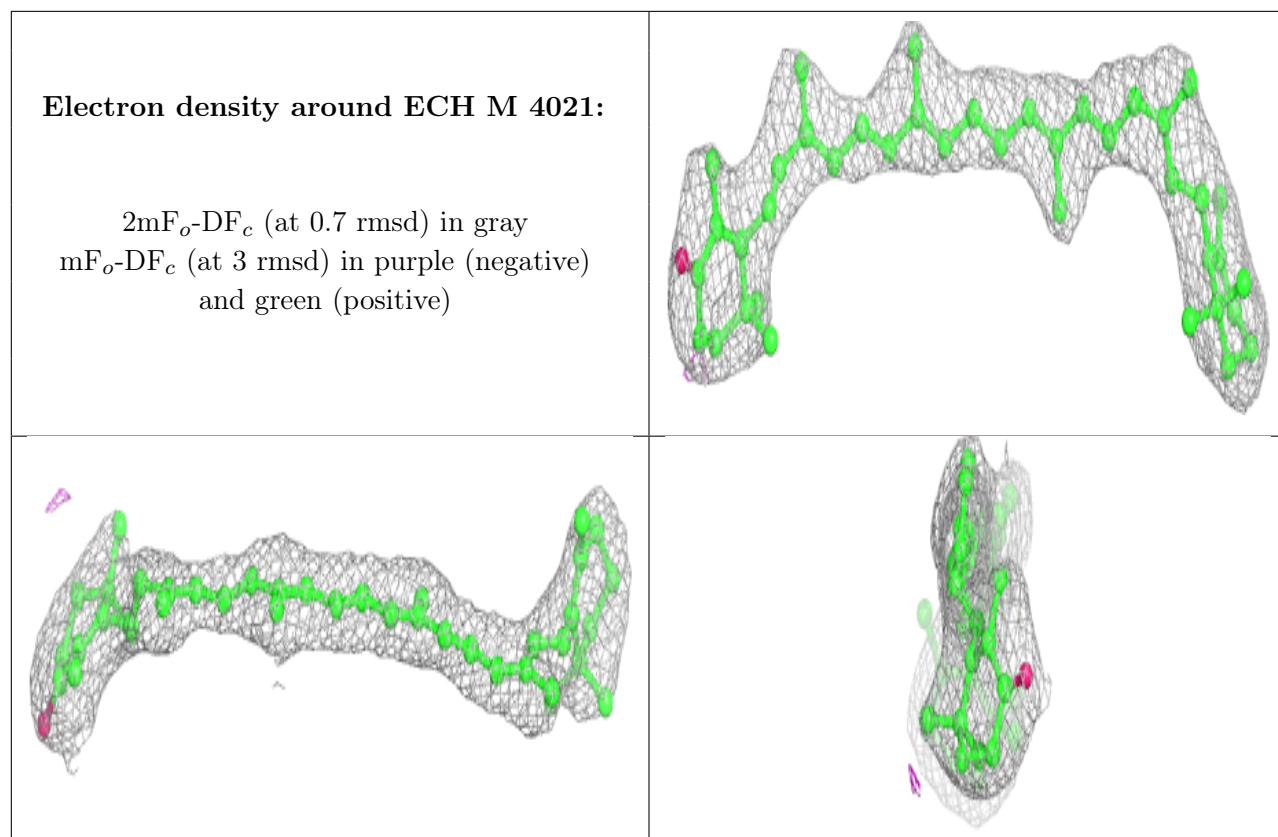
Electron density around CLA b 1235:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around CLA 1 1110:**

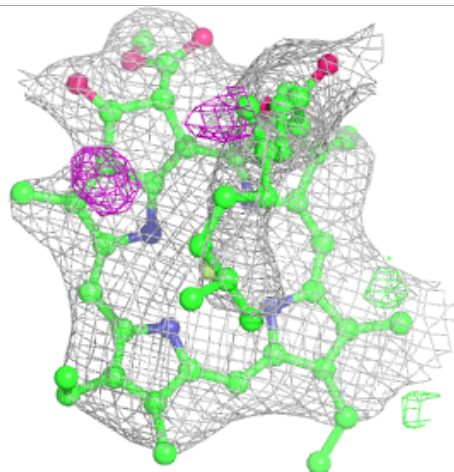
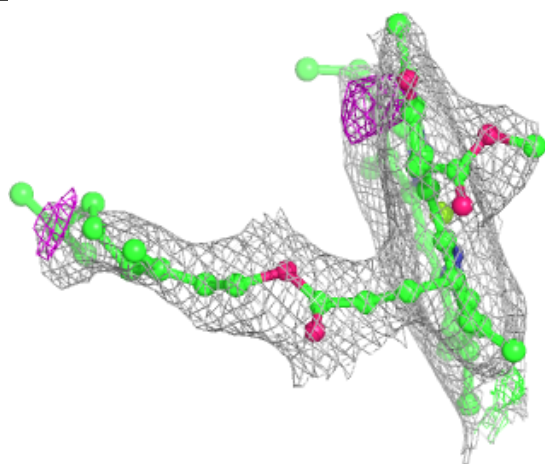
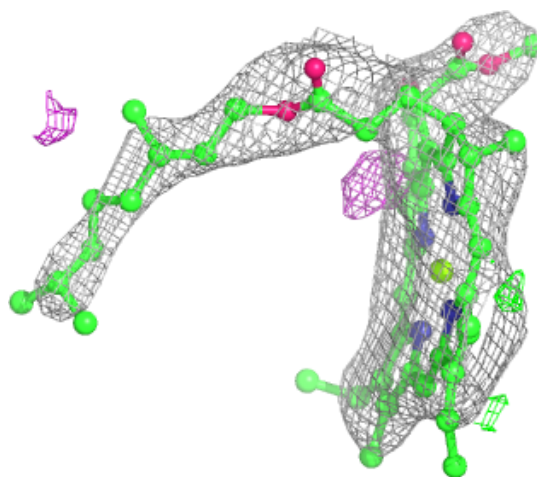
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





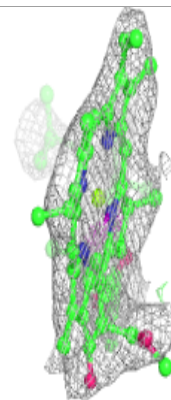
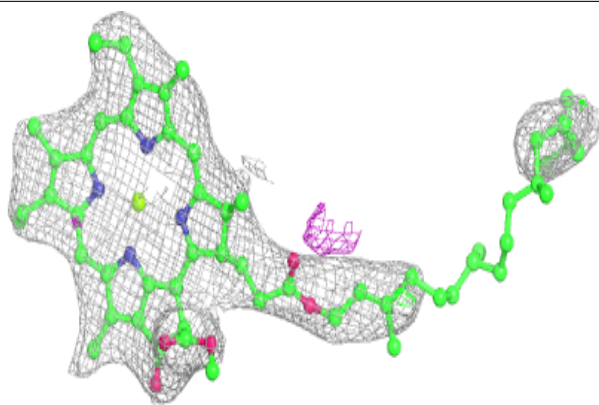
Electron density around CLA 2 1226:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

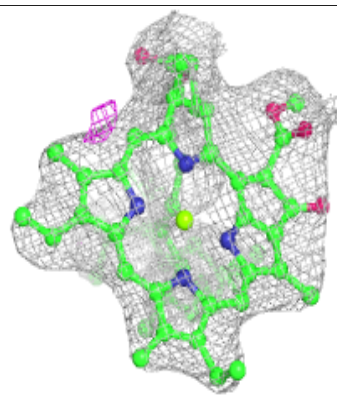
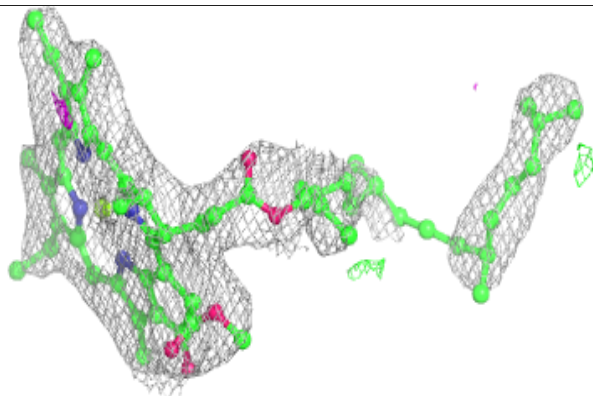
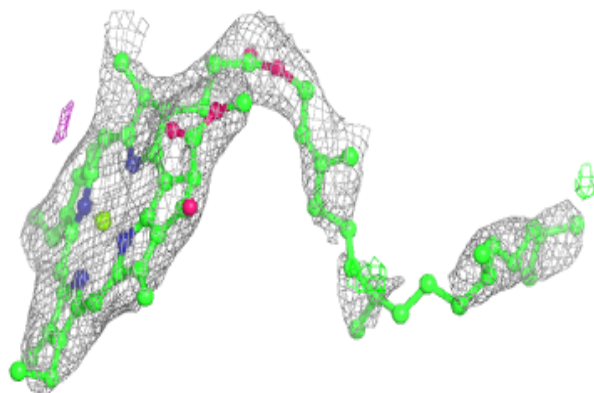


Electron density around CLA a 1135:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

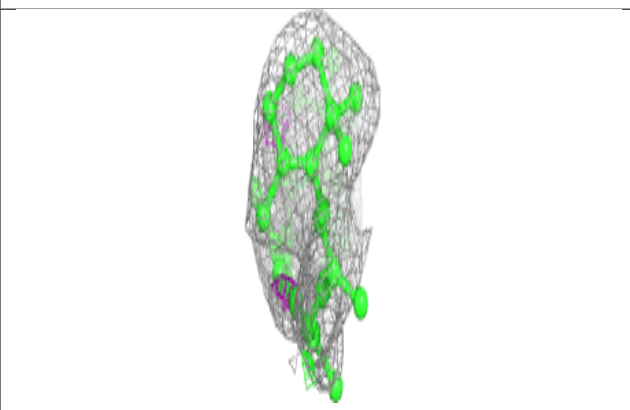
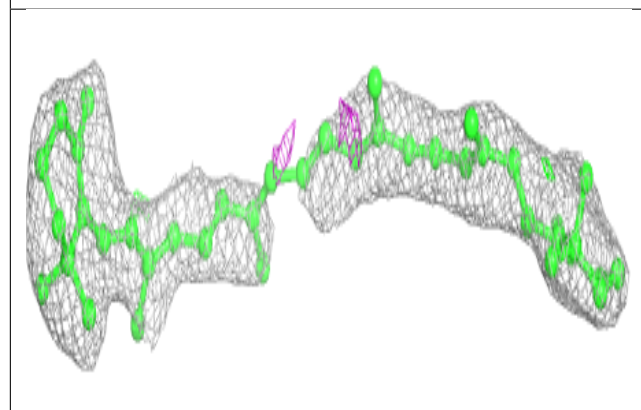
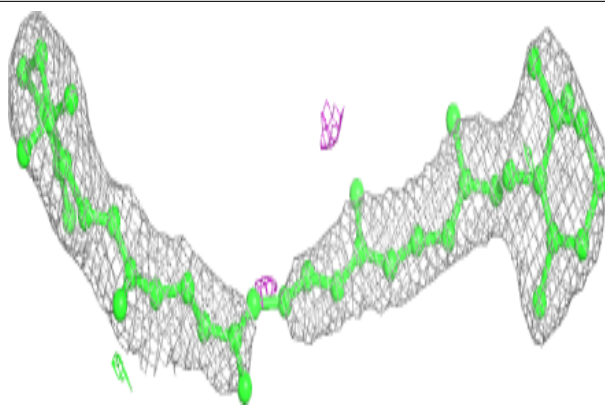
**Electron density around CLA 2 1021:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

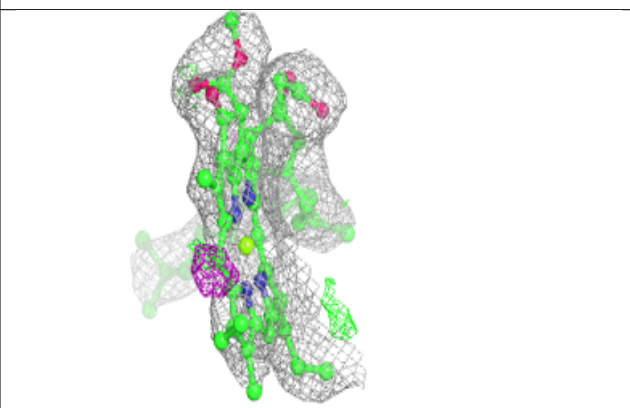
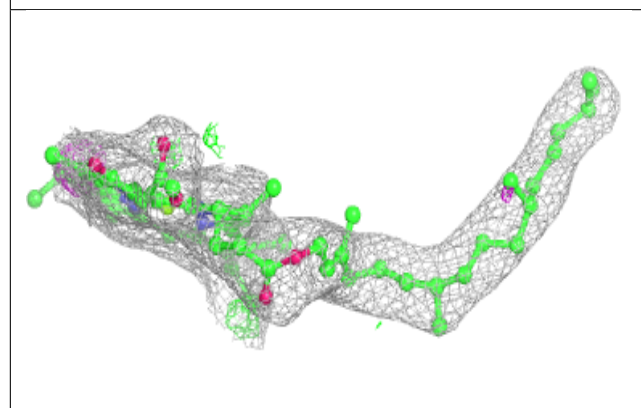
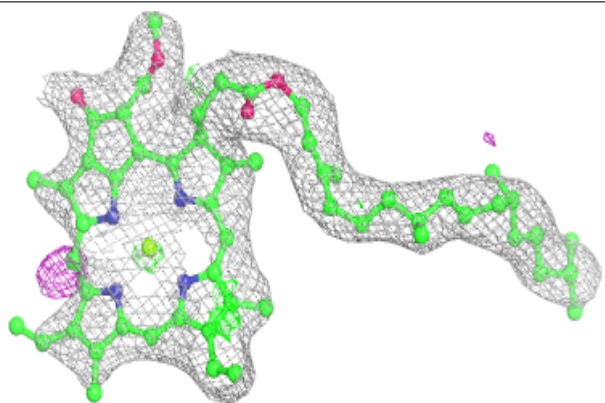


Electron density around BCR B 4014:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

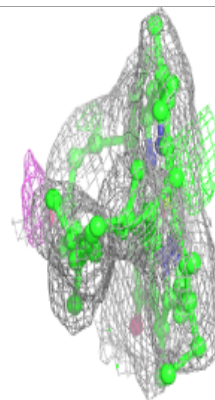
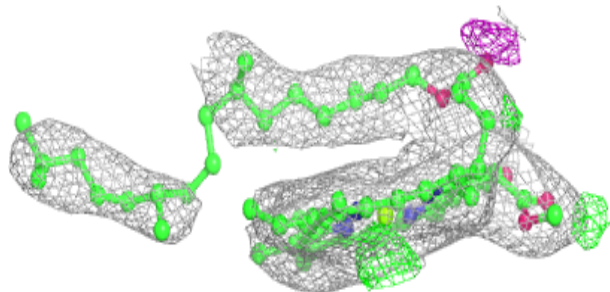
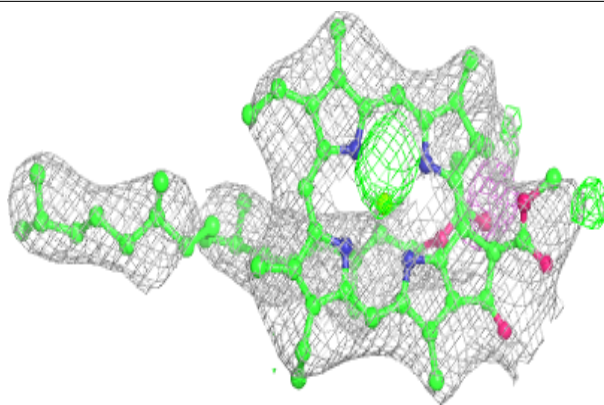
**Electron density around CLA 2 1023:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

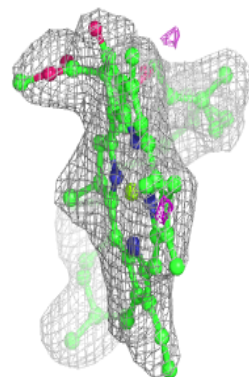
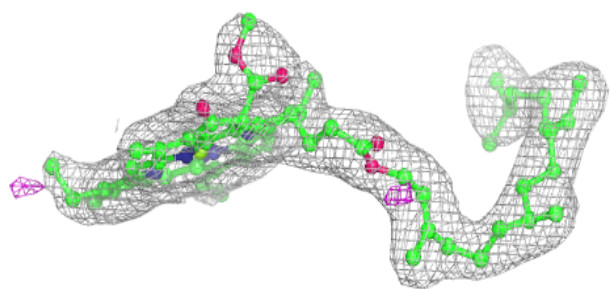
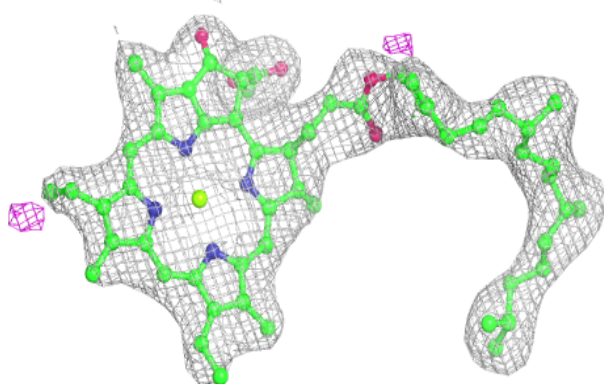


Electron density around CLA a 1136:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

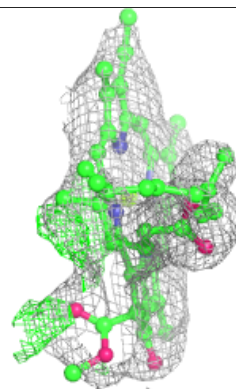
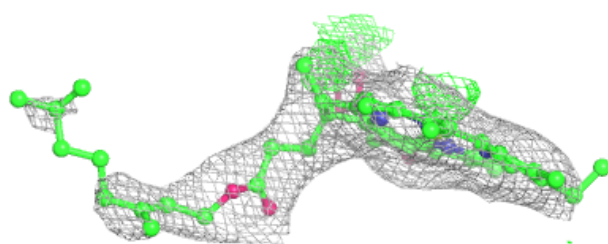
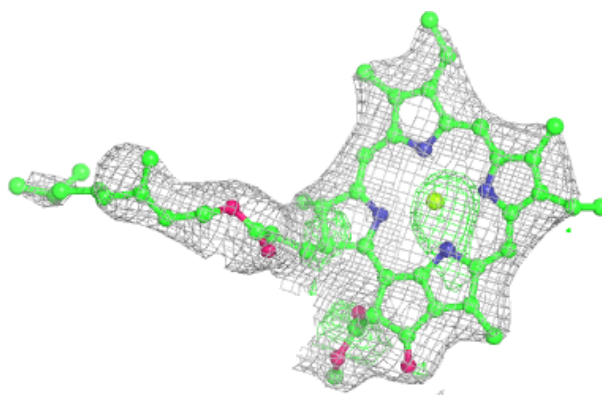
**Electron density around CLA A 1125:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

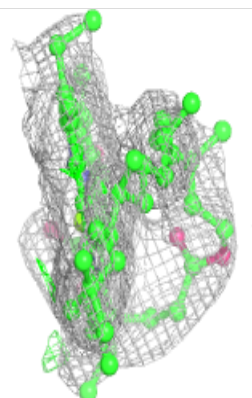
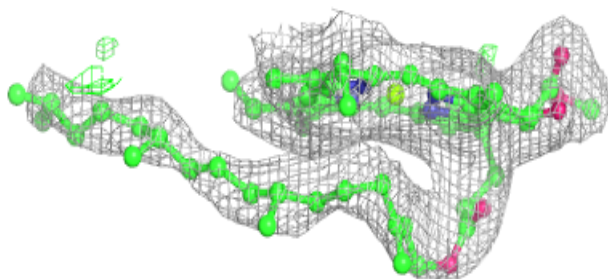
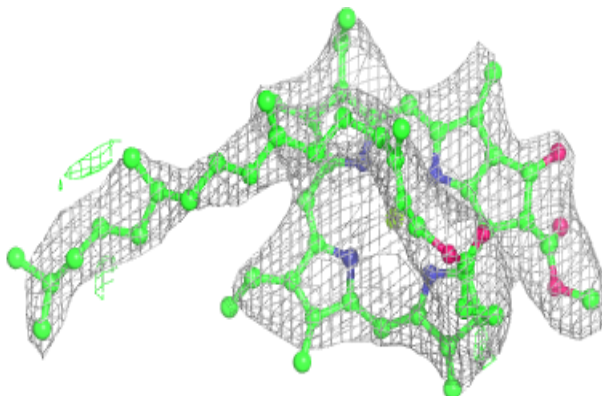


Electron density around CLA B 1222:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

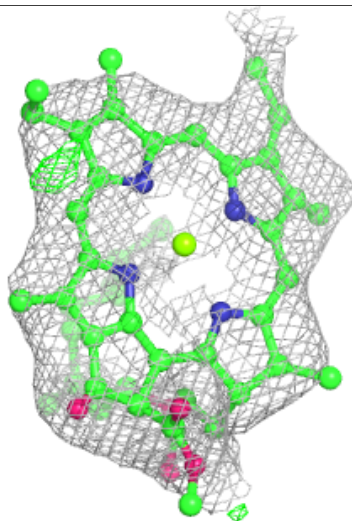
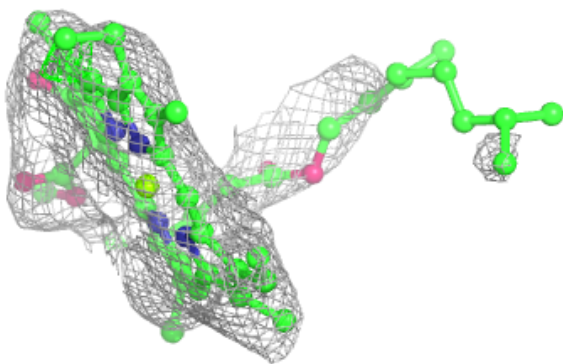
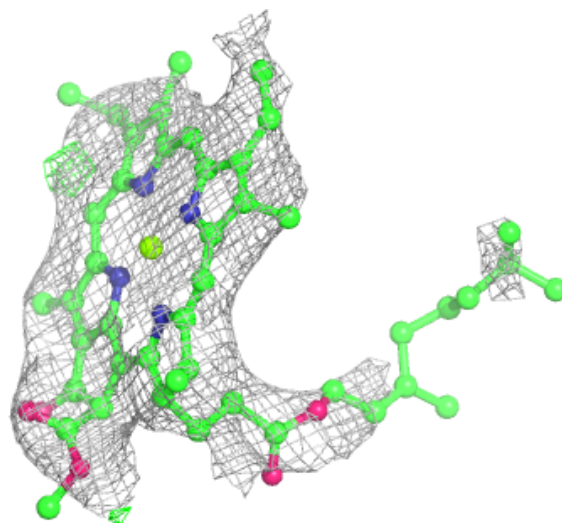
**Electron density around CLA a 1138:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



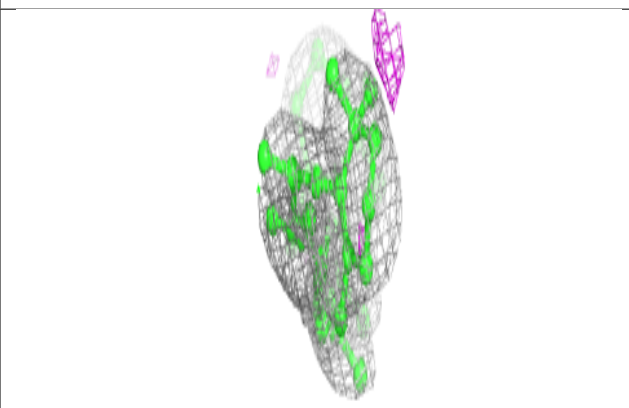
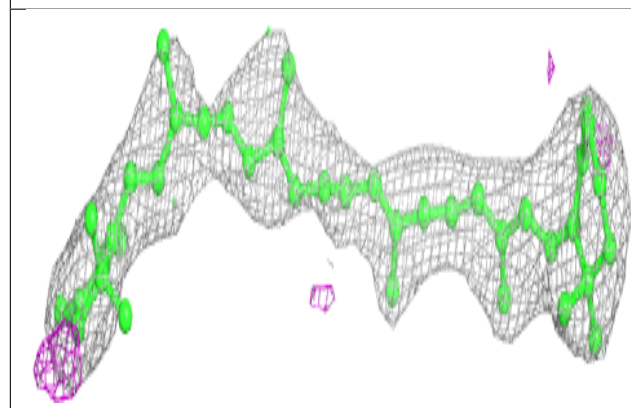
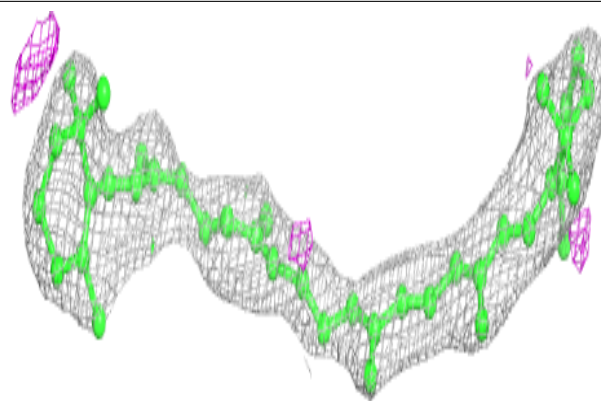
Electron density around CLA B 1212:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

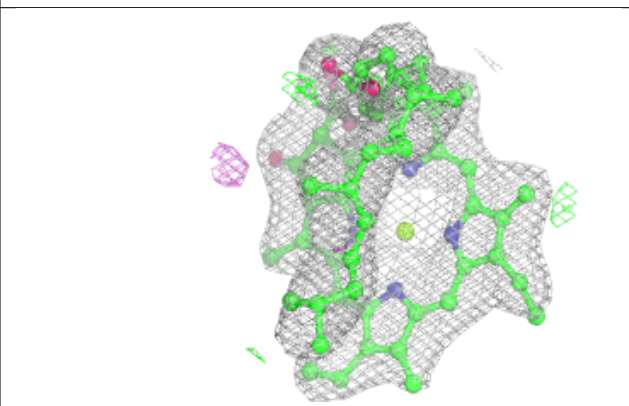
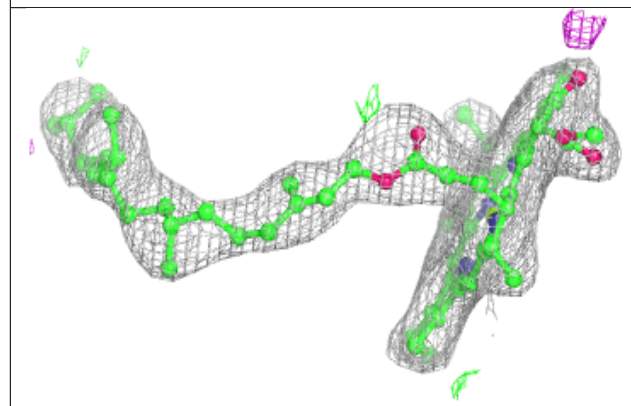
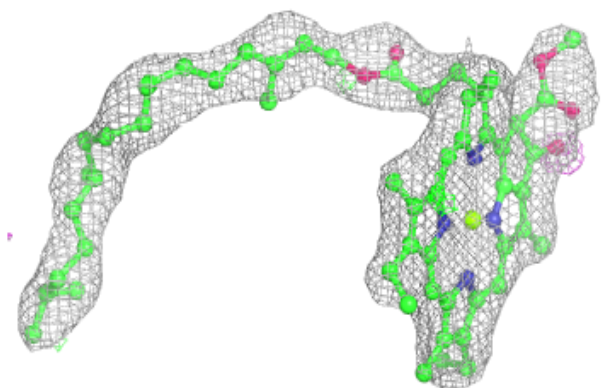


Electron density around BCR h 4018:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

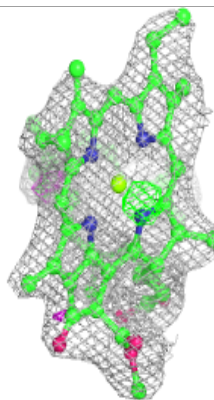
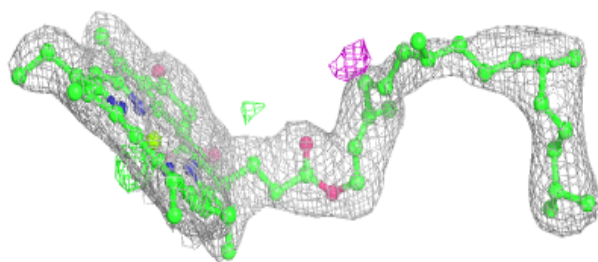
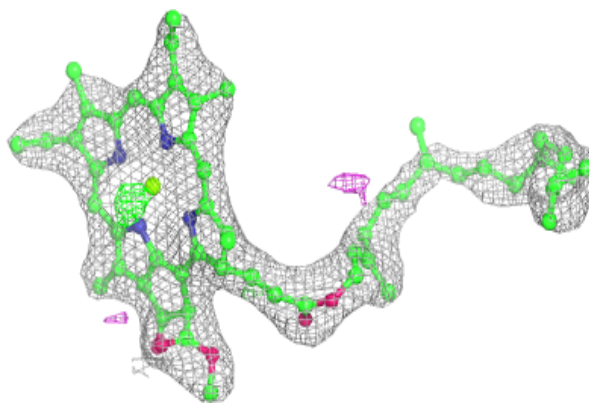
**Electron density around CLA A 1133:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

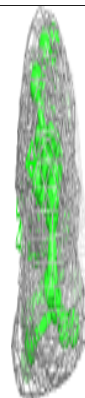
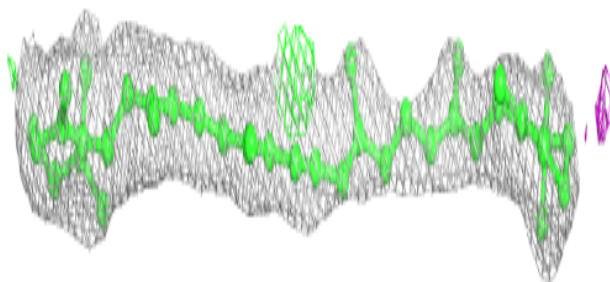
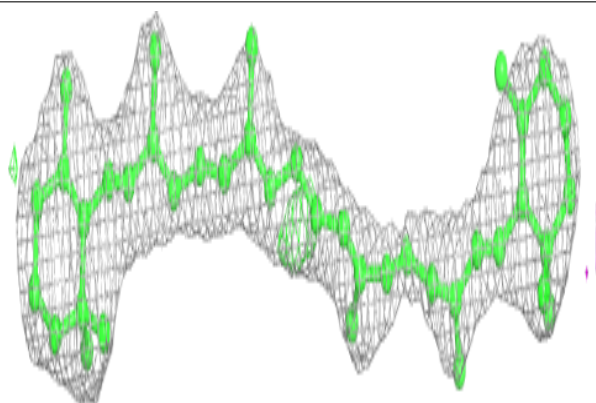


Electron density around CLA b 1206:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

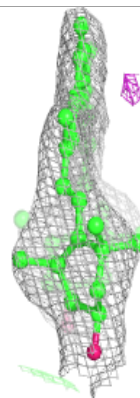
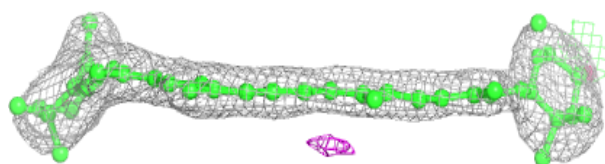
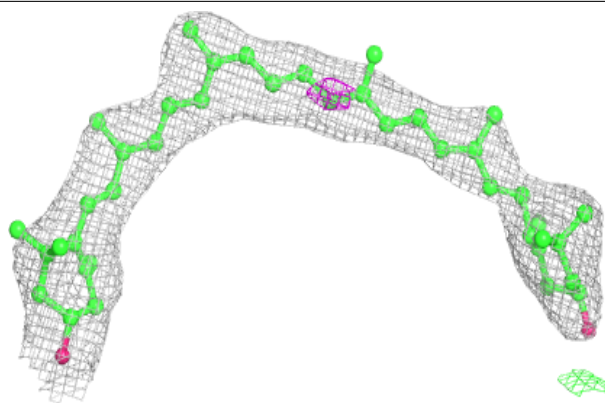
**Electron density around BCR 0 4019:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

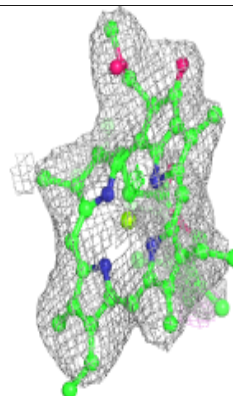
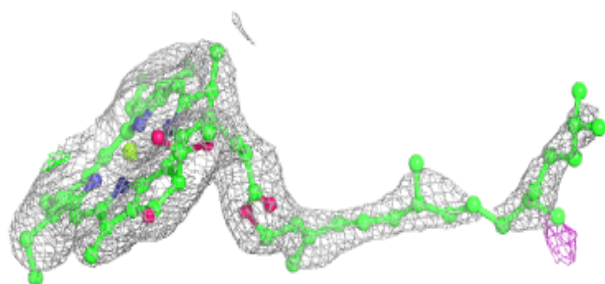
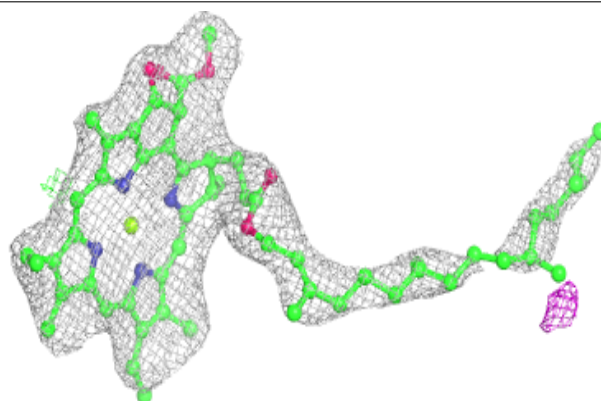


Electron density around ZEX F 4016:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

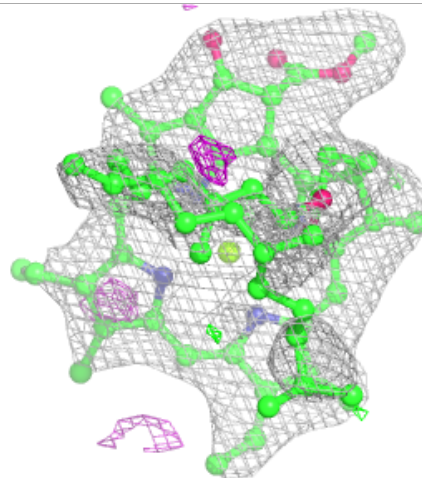
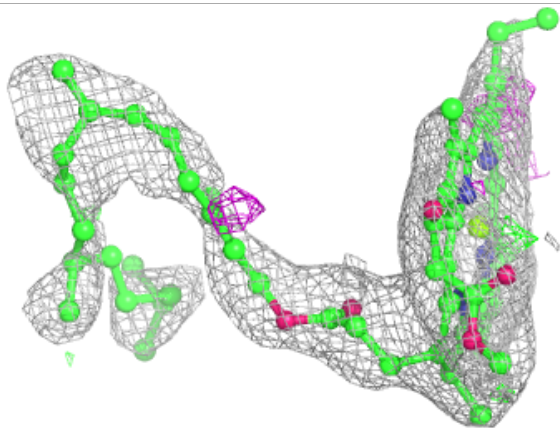
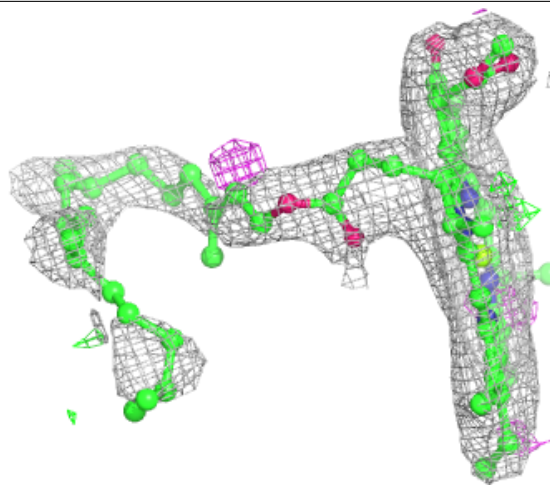
**Electron density around CLA 1 1119:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



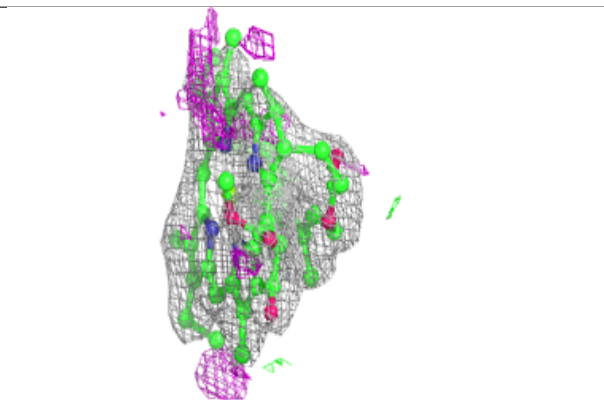
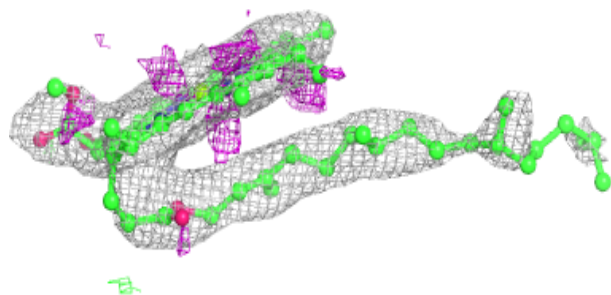
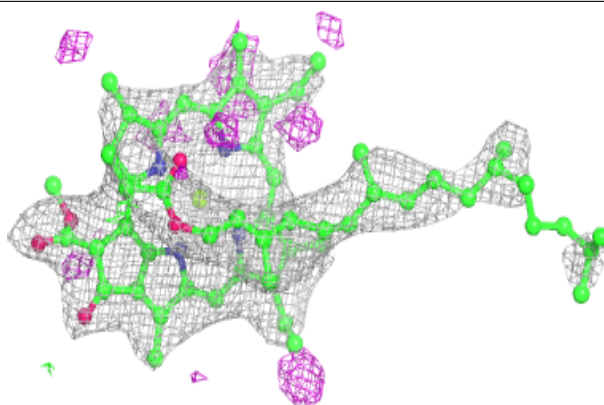
Electron density around CLA A 1134:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

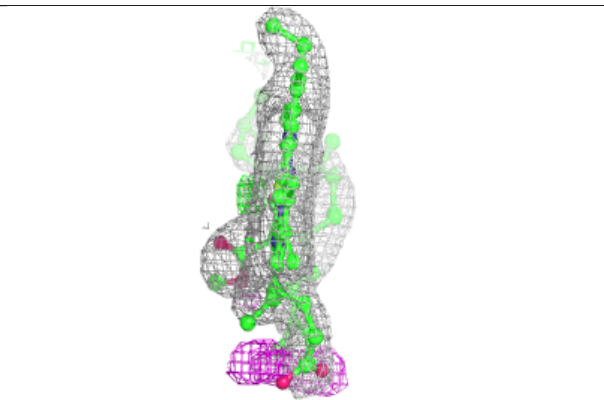
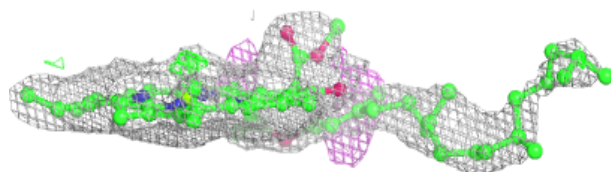
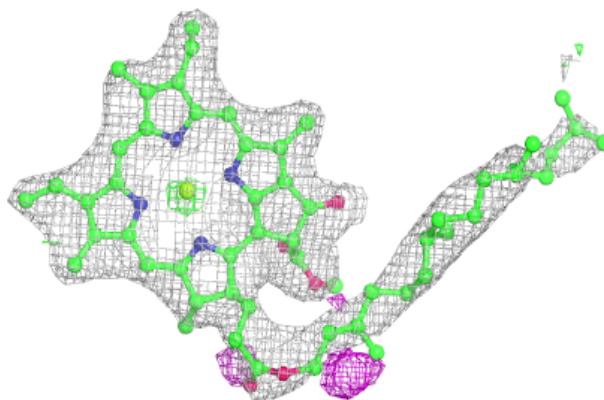


Electron density around CLA b 1213:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

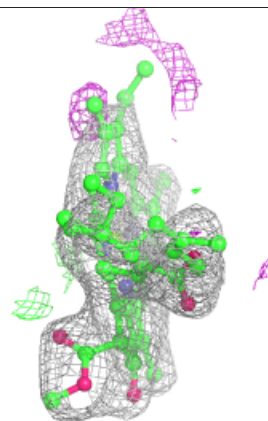
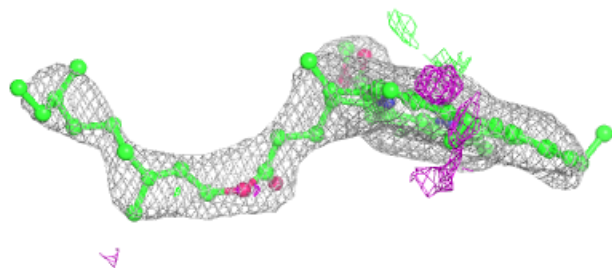
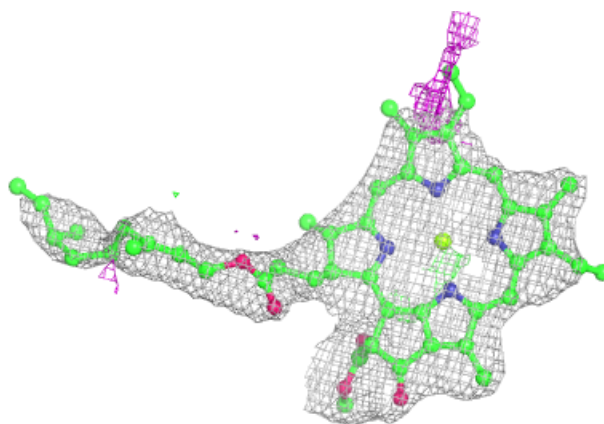
**Electron density around CLA L 1503:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

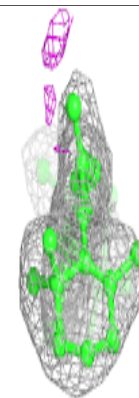
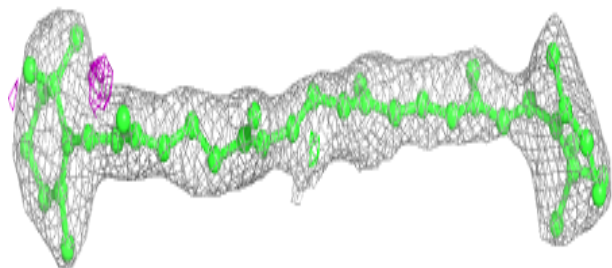
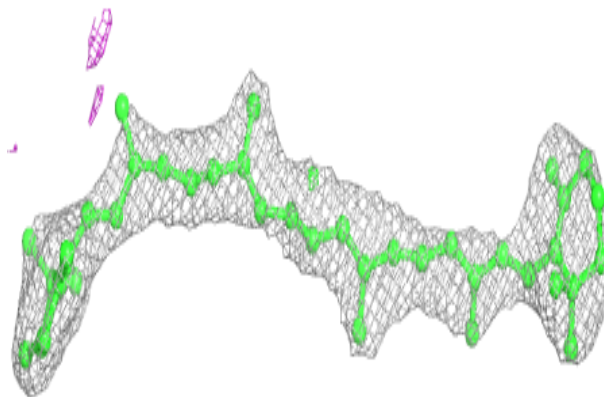


Electron density around CLA 1 1124:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

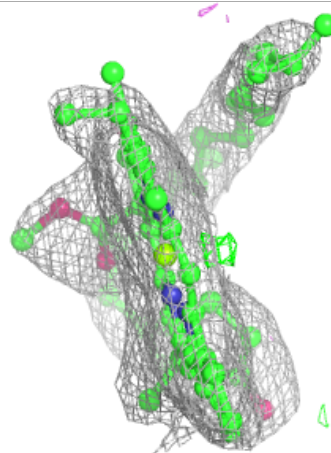
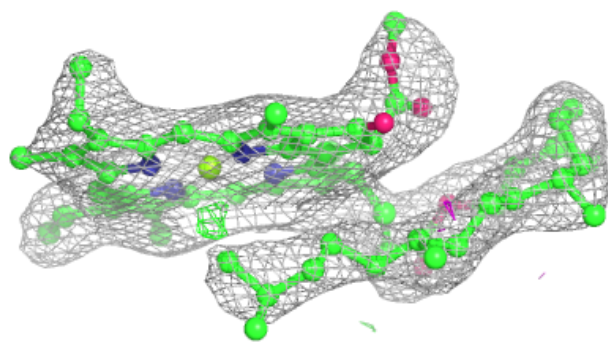
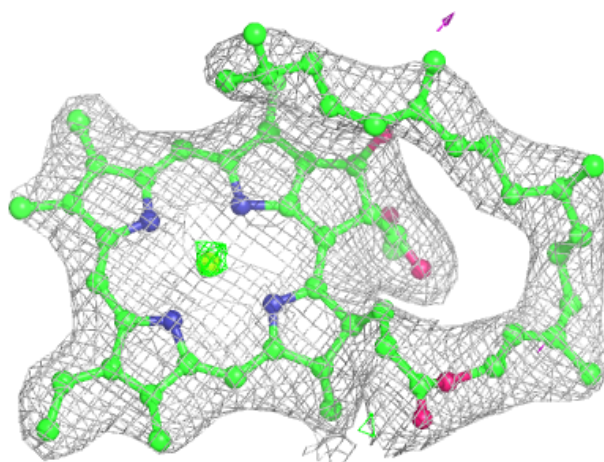
**Electron density around BCR b 4017:**

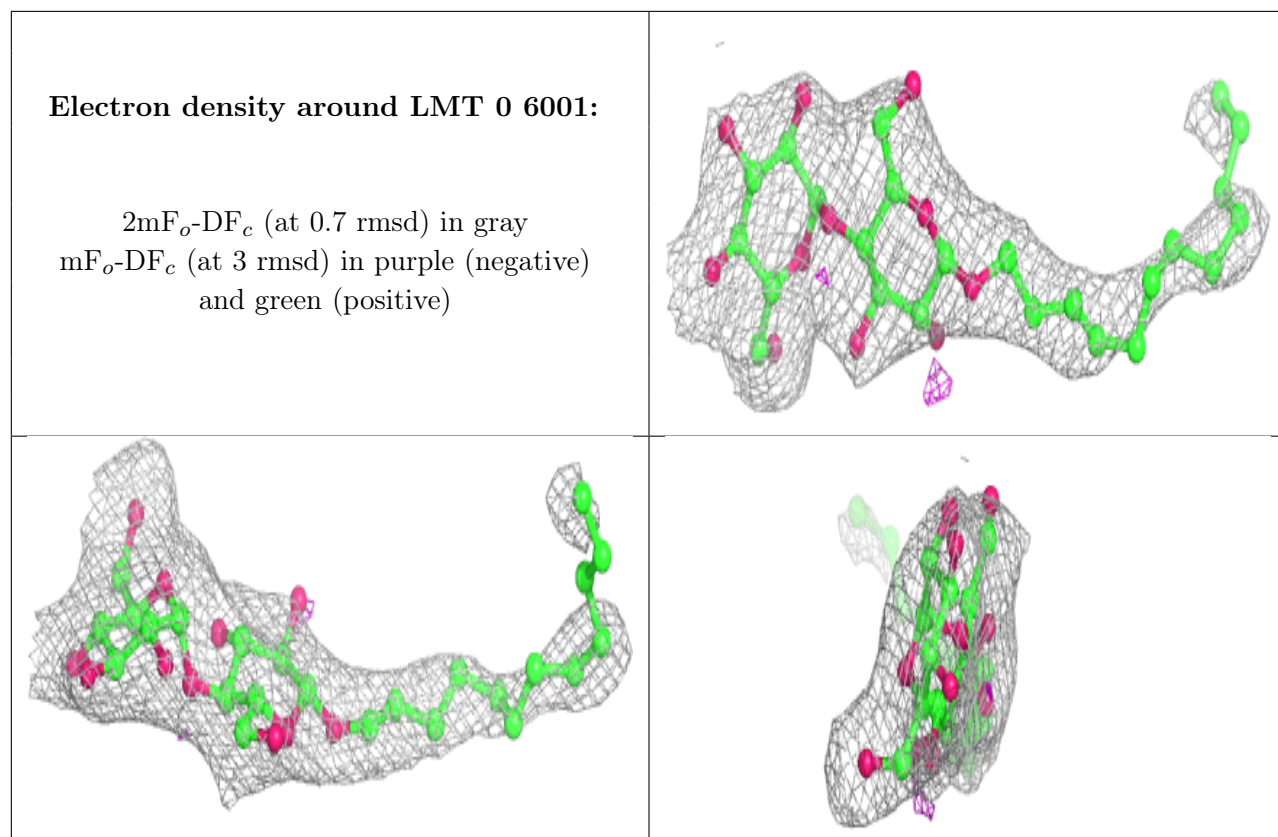
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA B 1202:

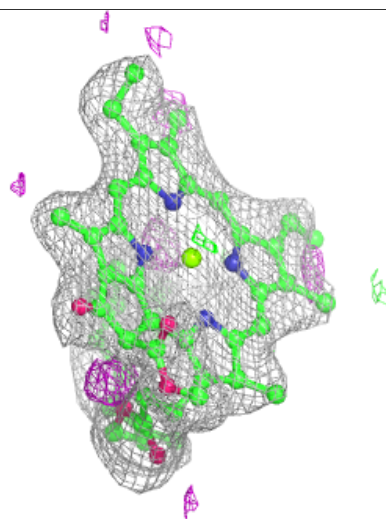
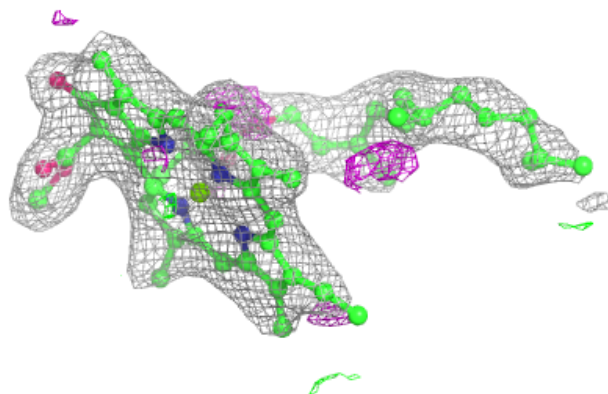
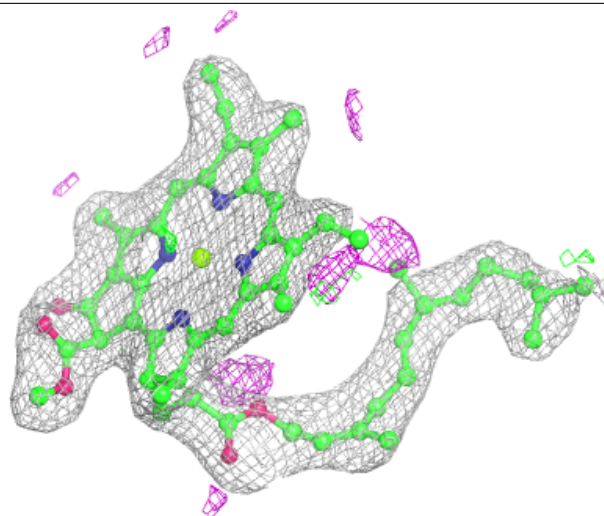
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





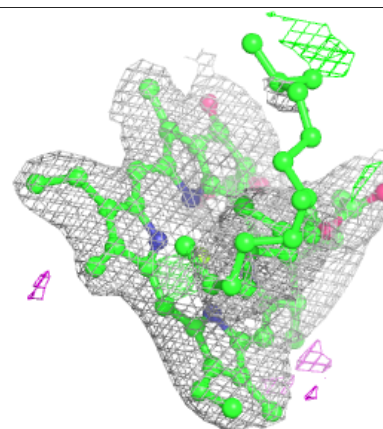
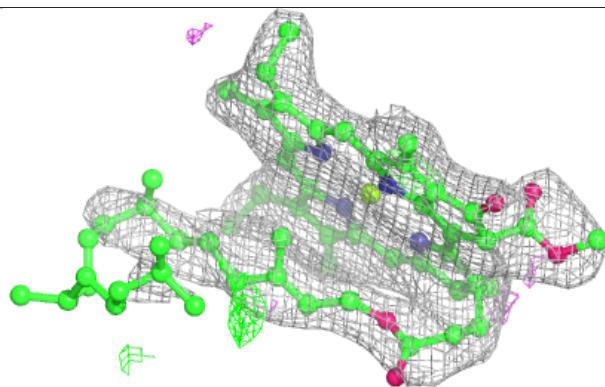
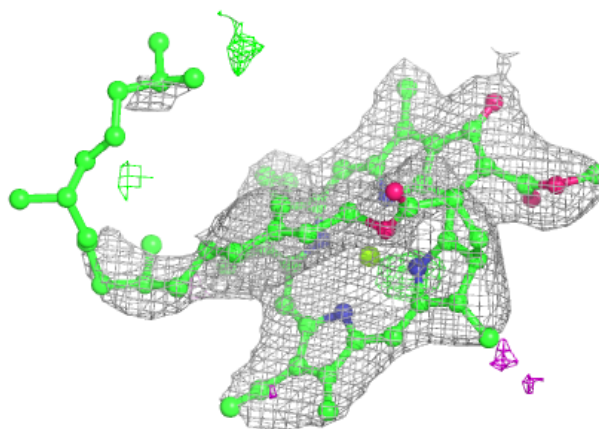
Electron density around CLA A 1122:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

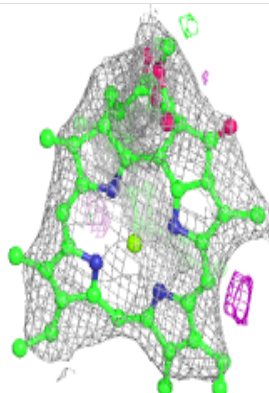
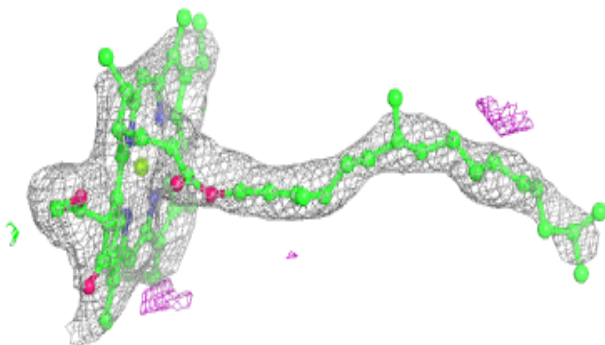
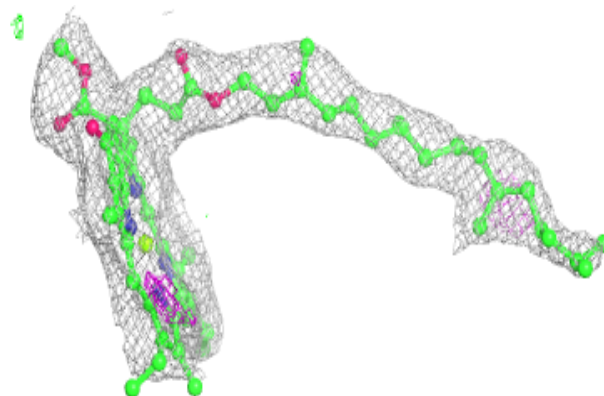


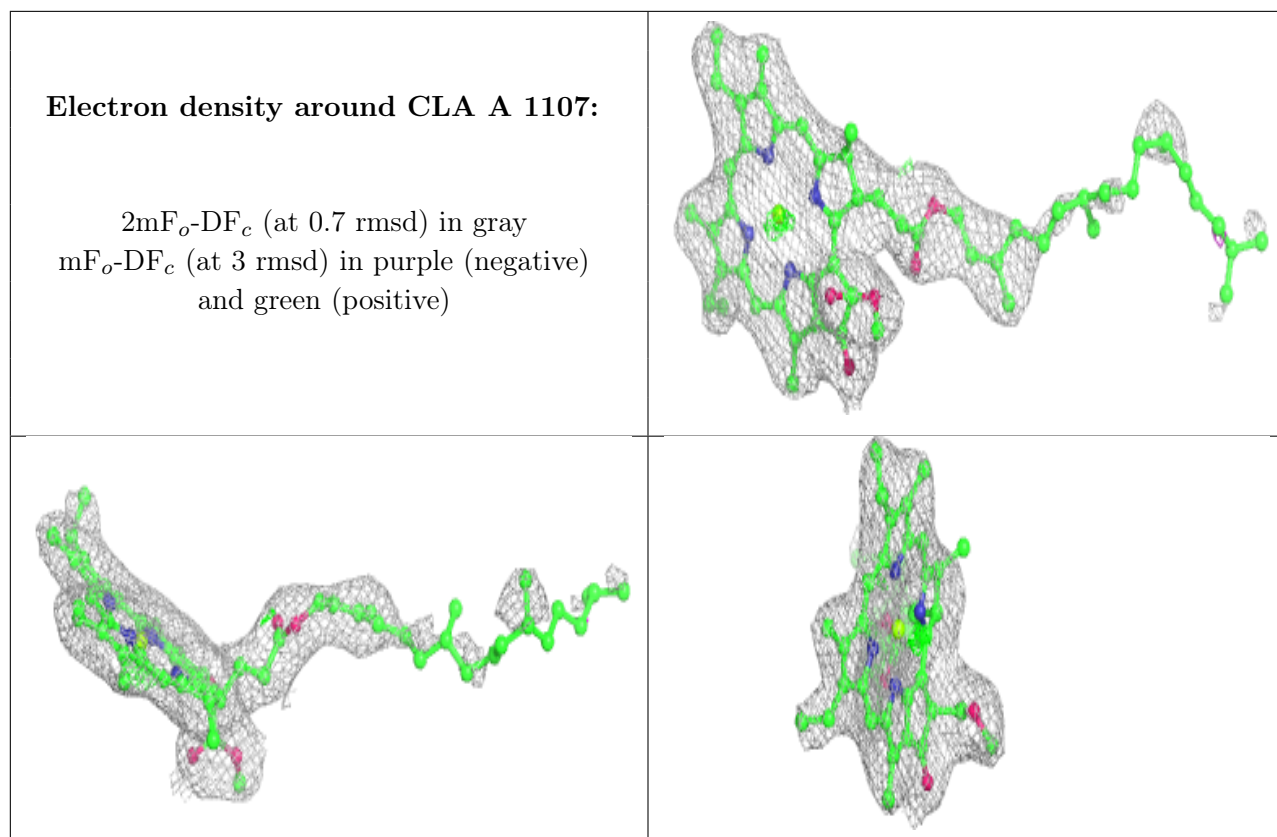
Electron density around CLA A 1121:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around CLA 2 1201:**

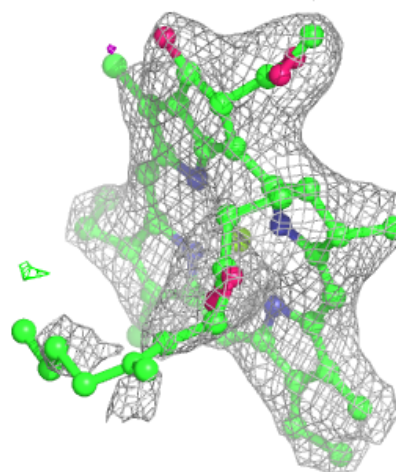
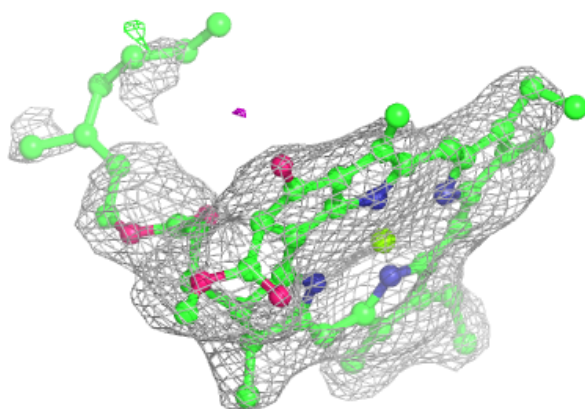
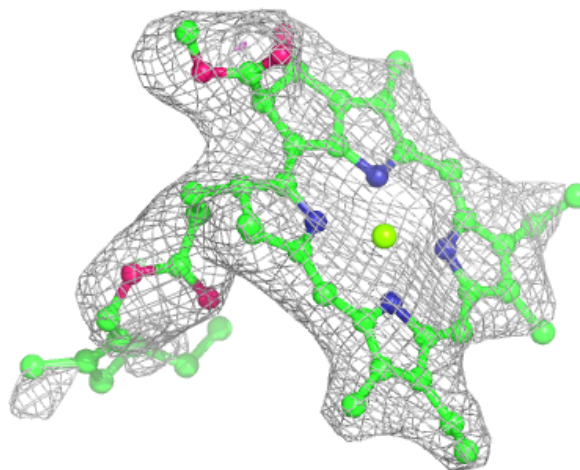
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





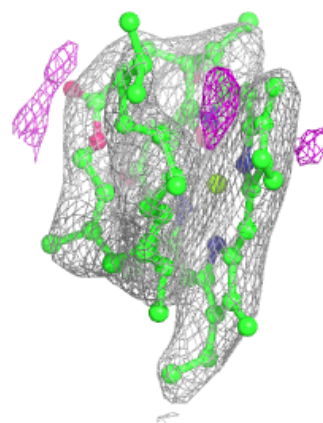
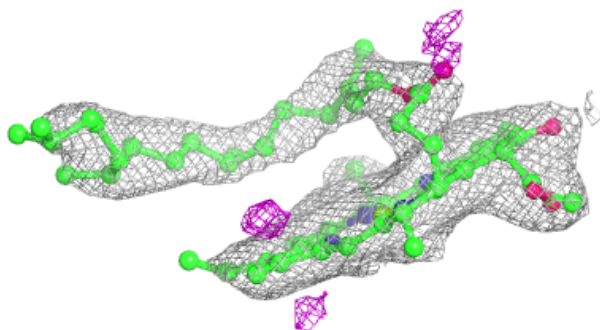
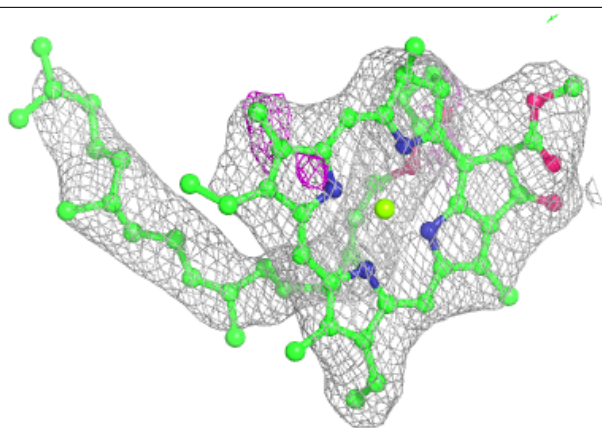
Electron density around CLA A 1108:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

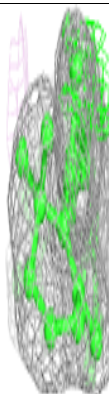
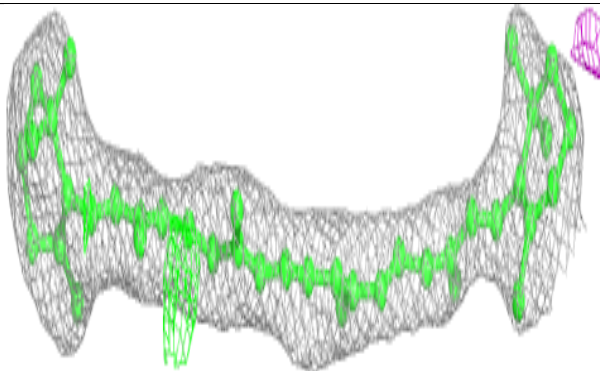
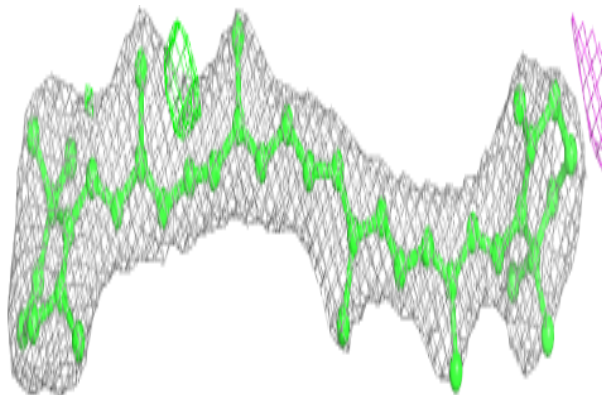


Electron density around CLA 2 1204:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

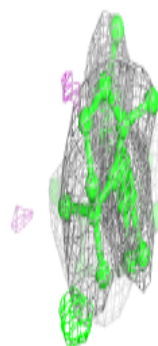
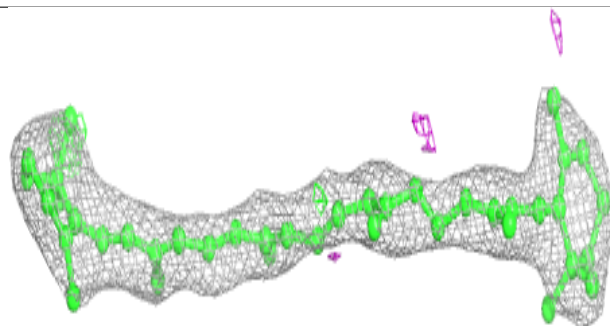
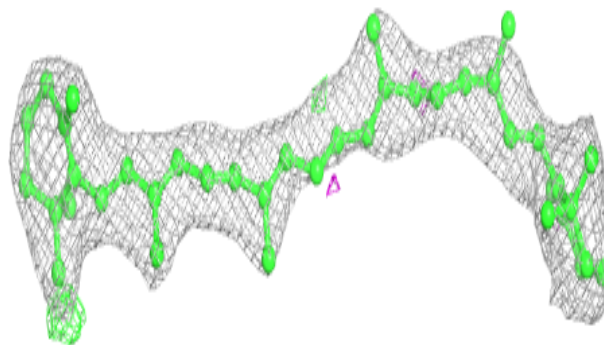
**Electron density around BCR A 4001:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

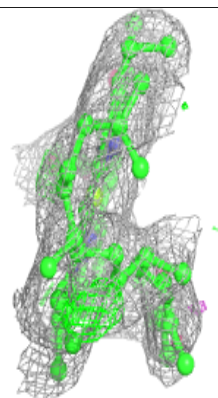
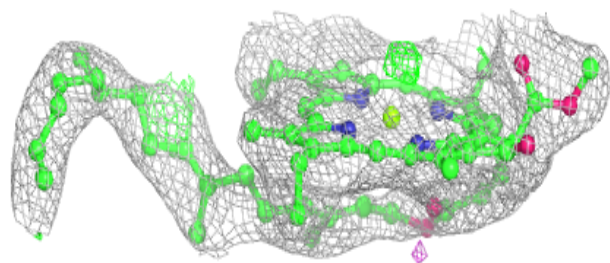
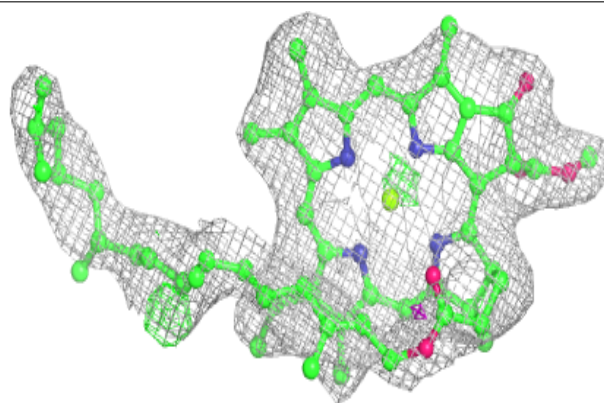


Electron density around BCR 2 4017:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

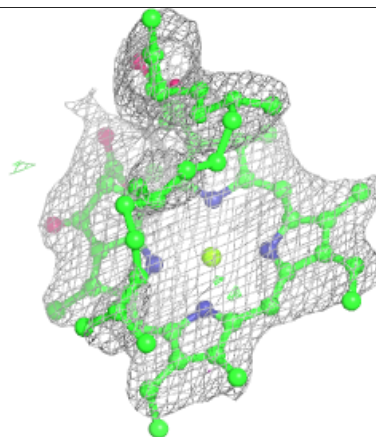
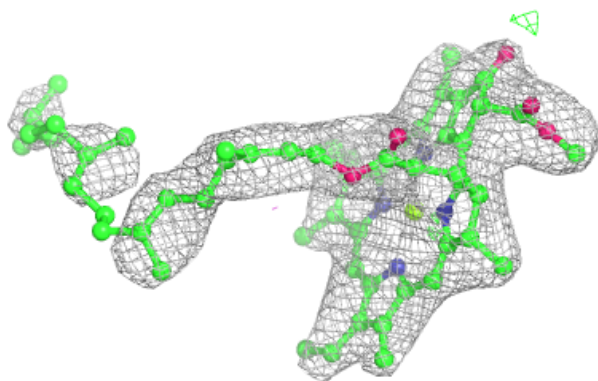
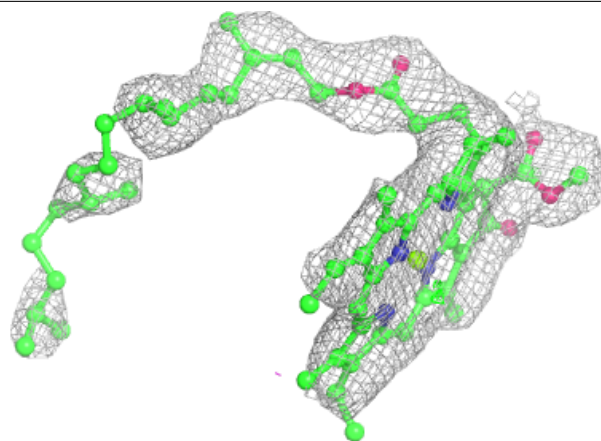
**Electron density around CLA b 1209:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

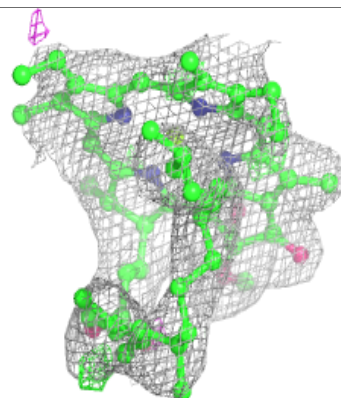
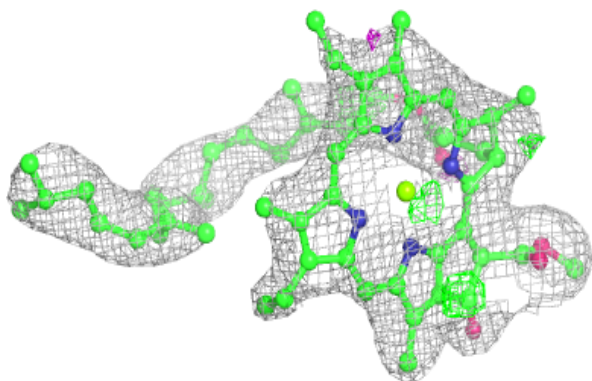
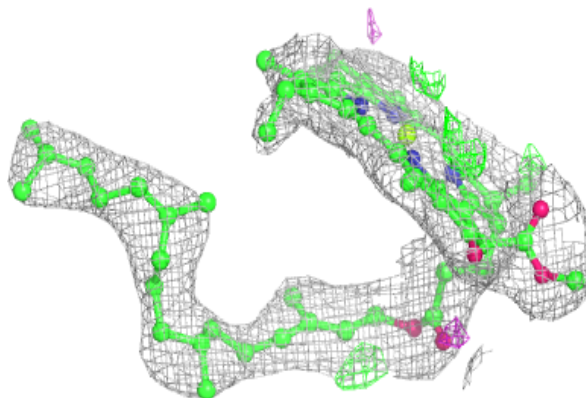


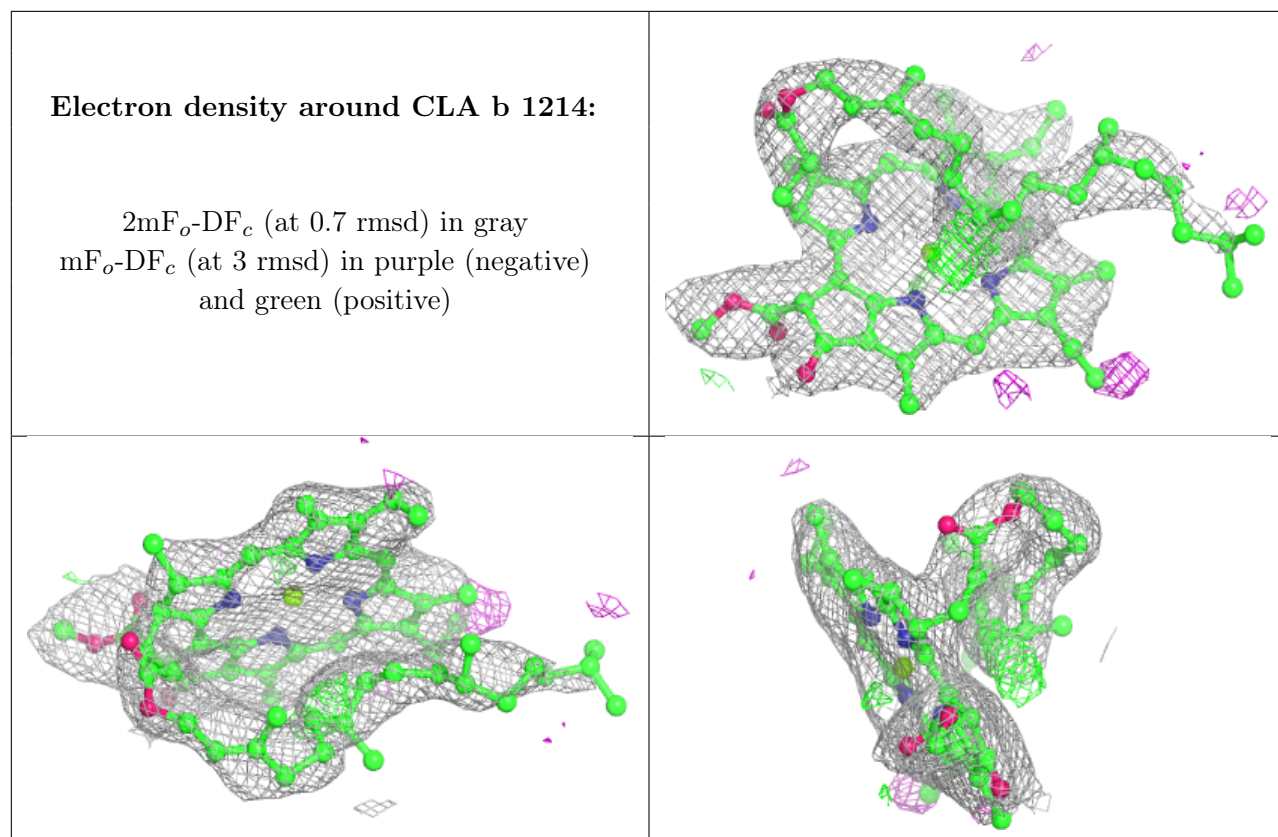
Electron density around CLA b 1212:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around CLA A 1109:**

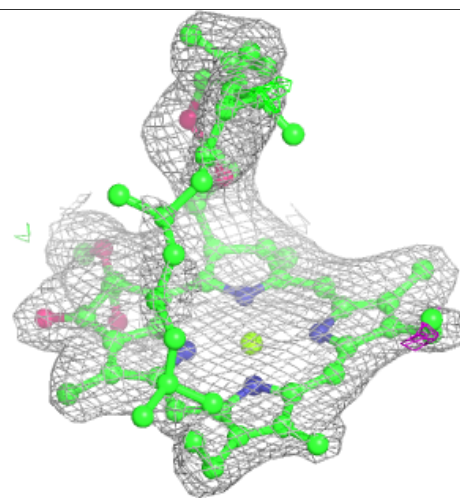
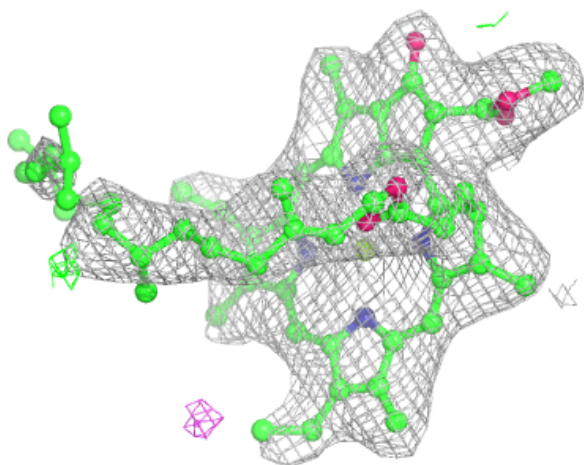
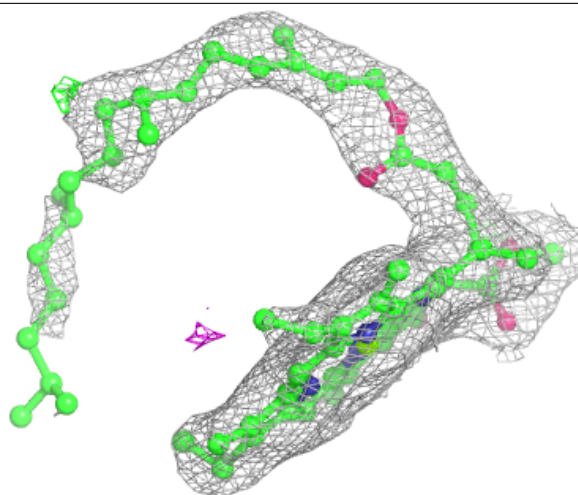
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





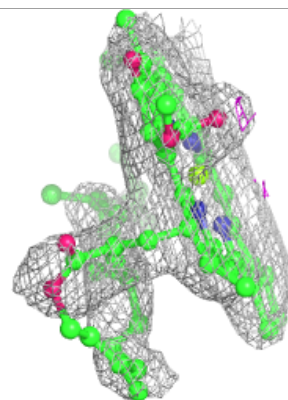
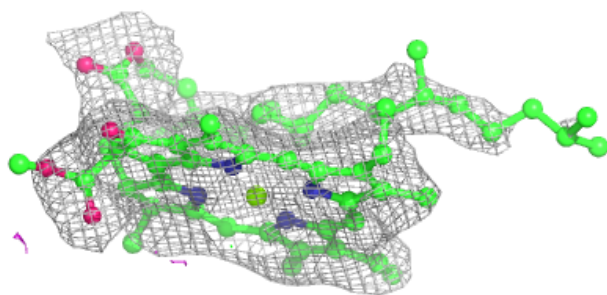
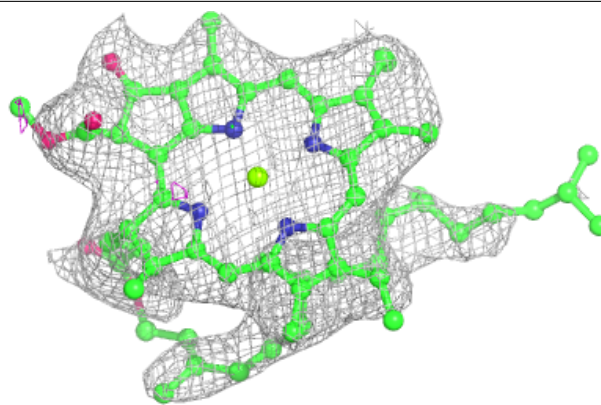
Electron density around CLA b 1216:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

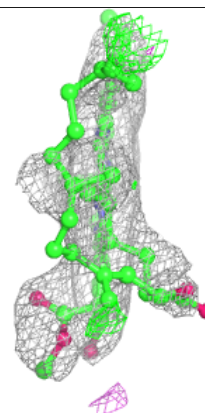
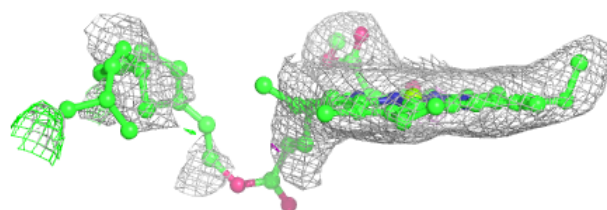
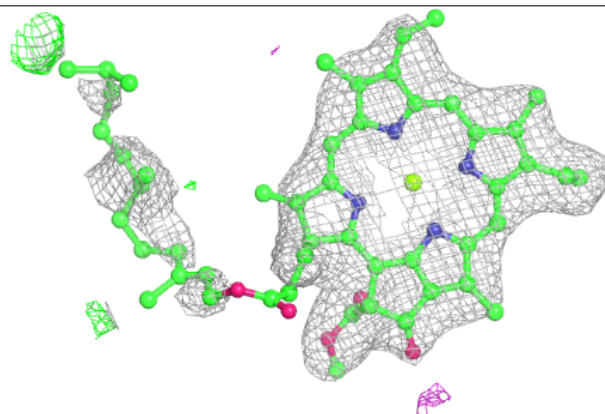


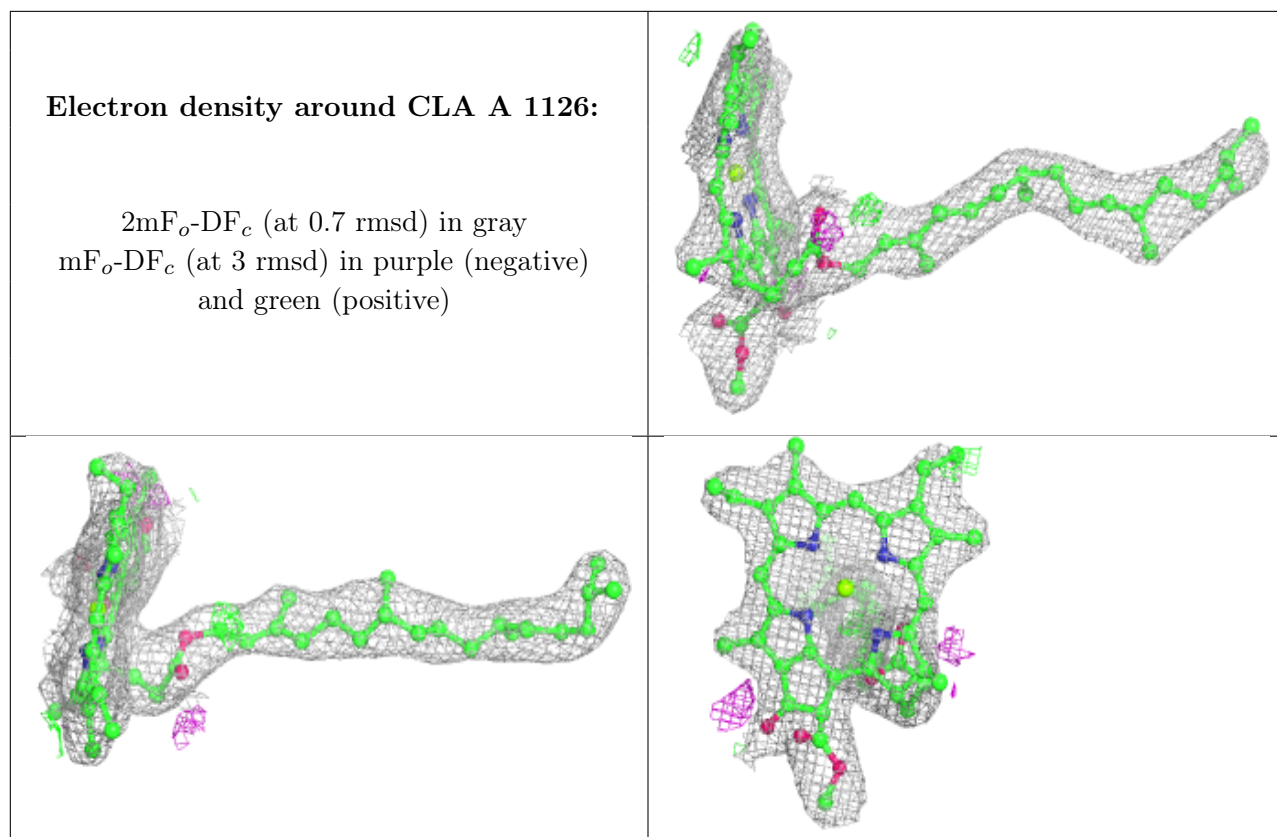
Electron density around CLA b 1218:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around CLA b 1219:**

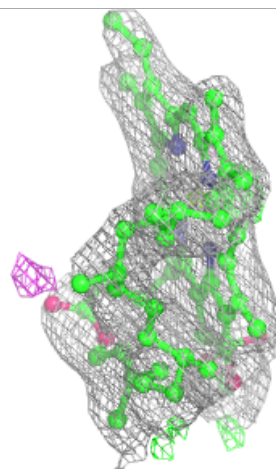
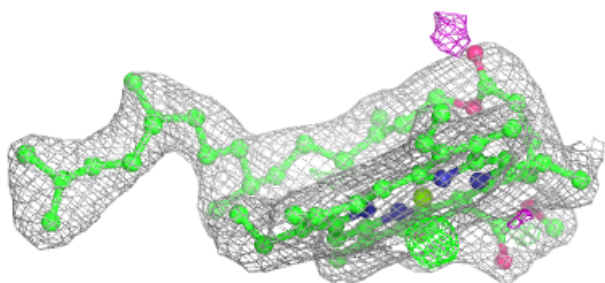
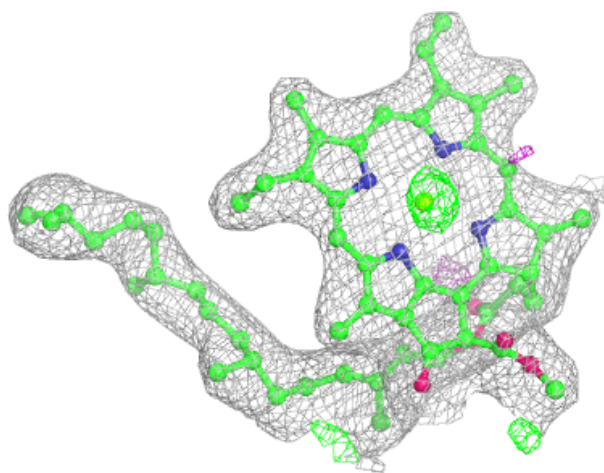
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





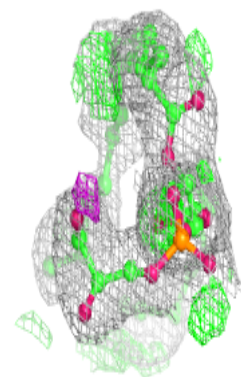
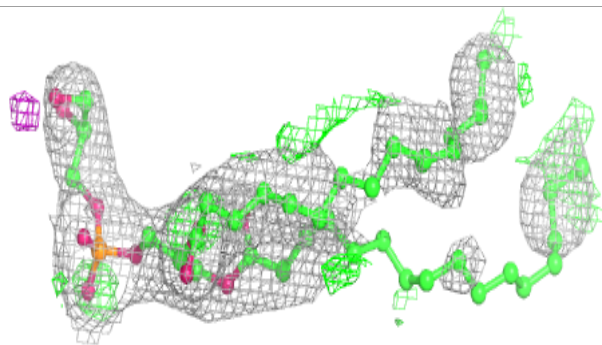
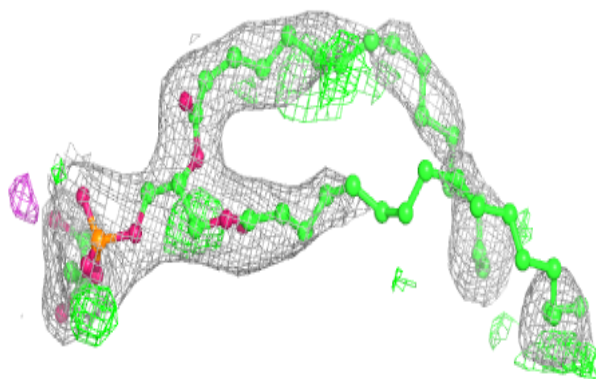
Electron density around CLA A 1127:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



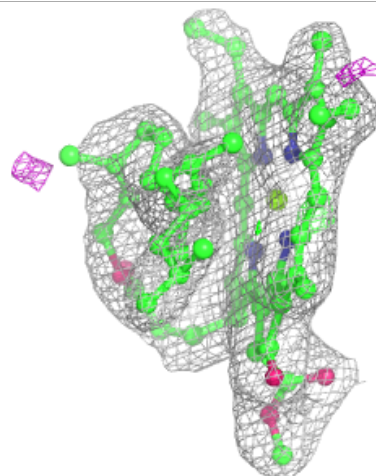
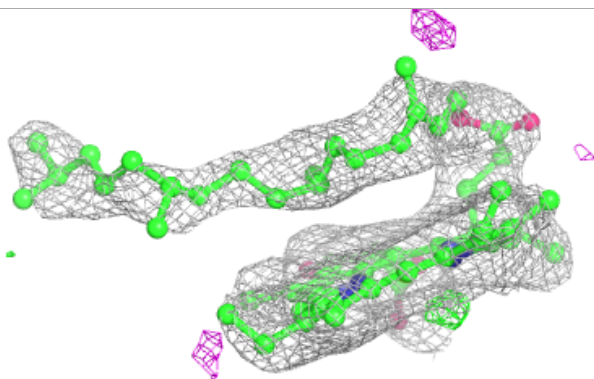
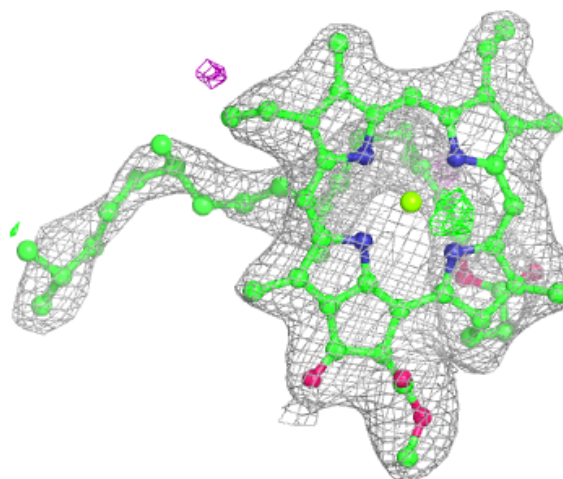
Electron density around LHG A 5003:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



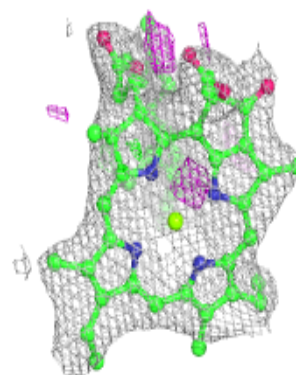
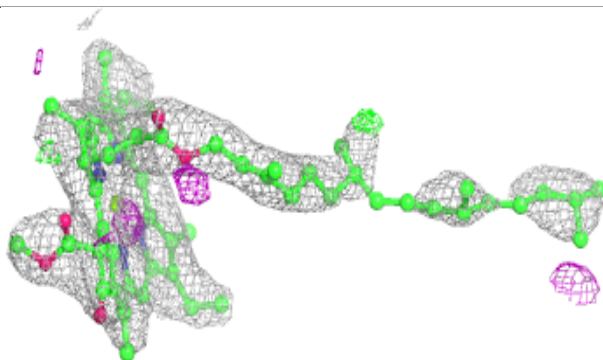
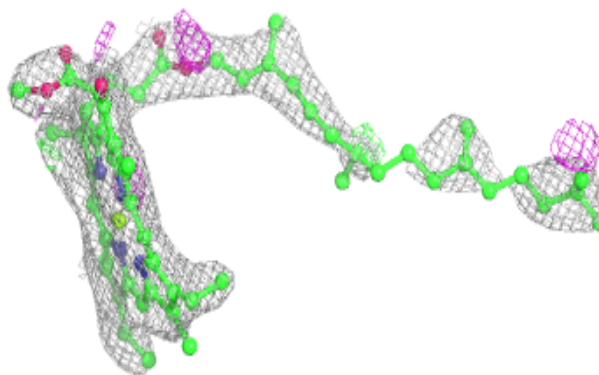
Electron density around CLA b 1224:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

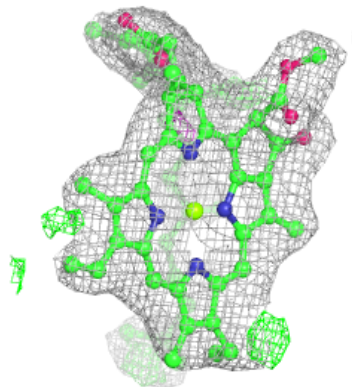
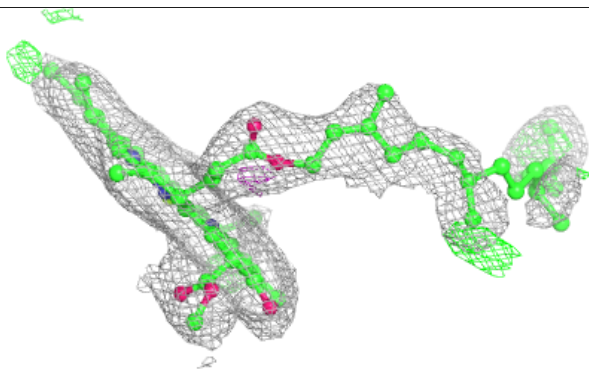
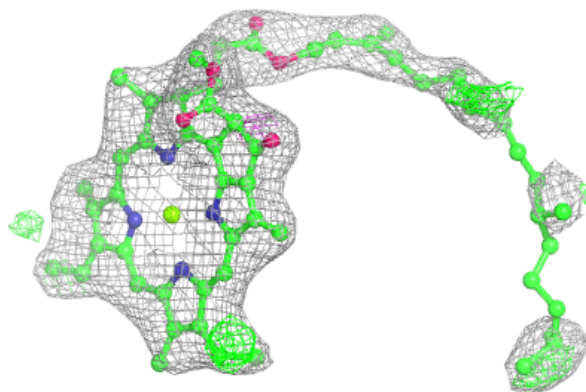


Electron density around CLA b 1226:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

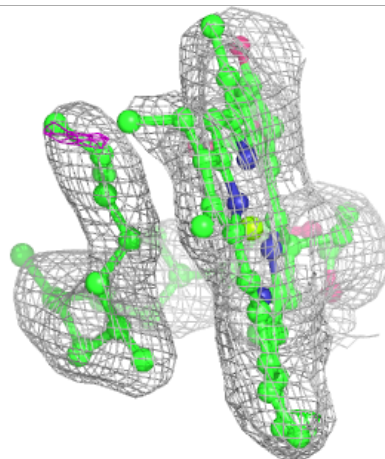
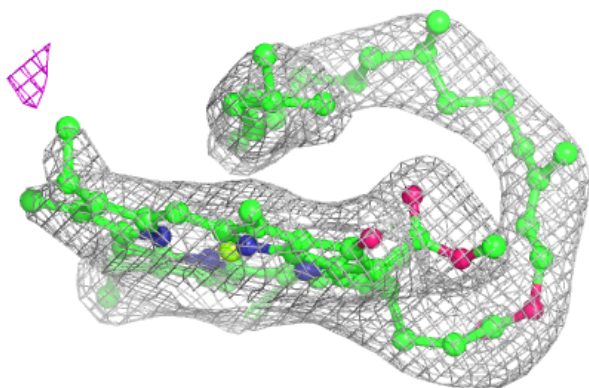
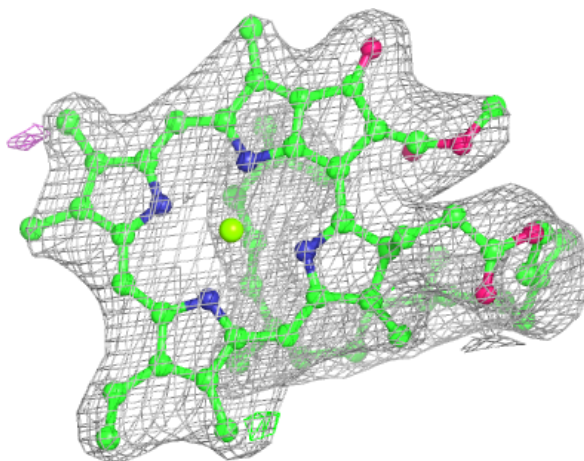
**Electron density around CLA K 1401:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



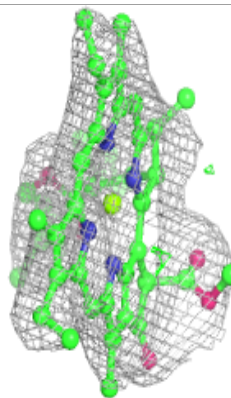
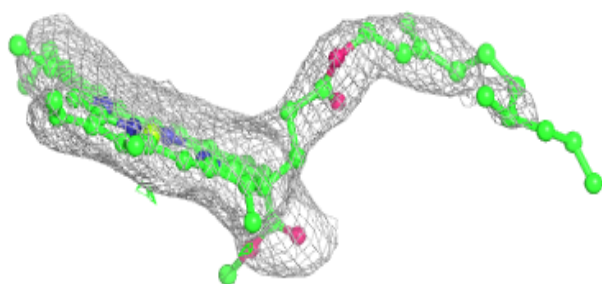
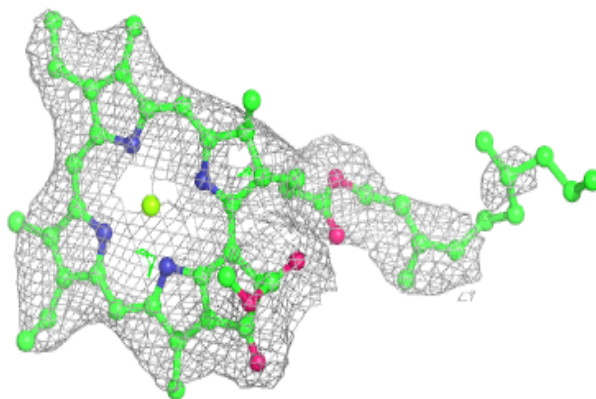
Electron density around CLA A 1104:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

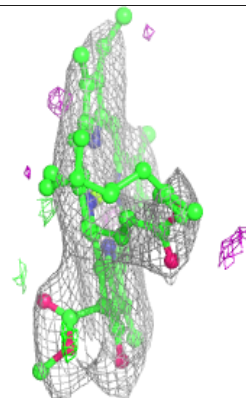
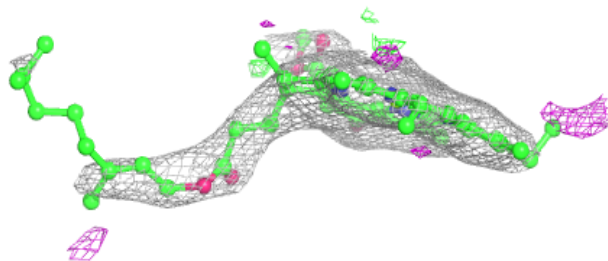
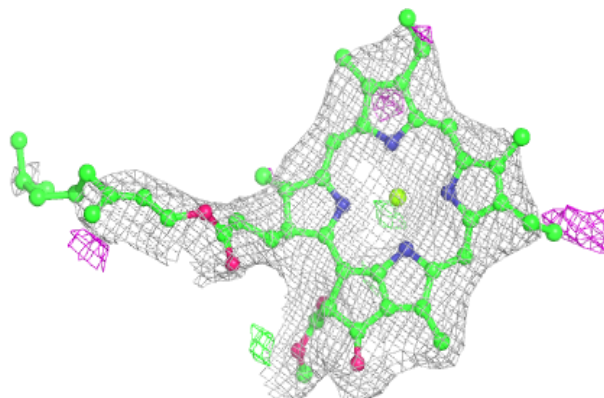


Electron density around CLA B 1220:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

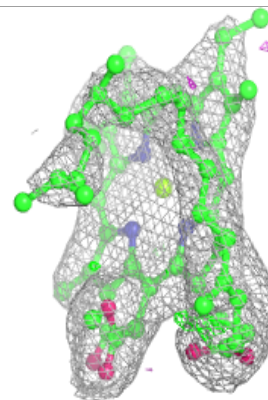
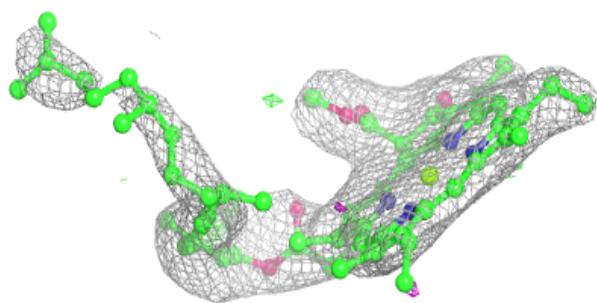
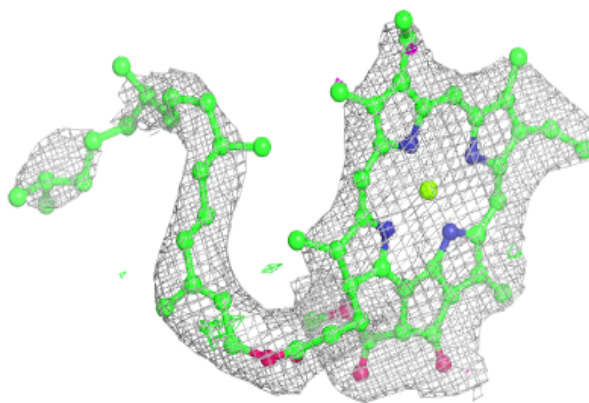
**Electron density around CLA a 1124:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

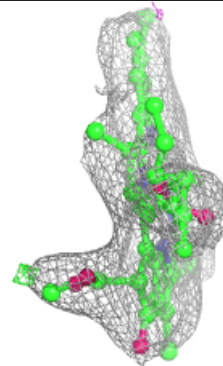
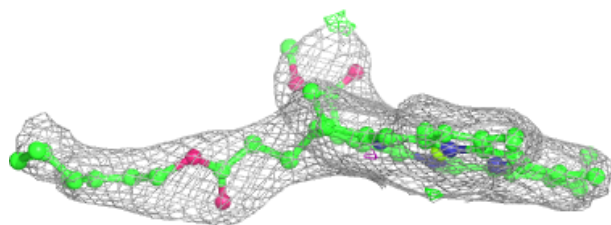
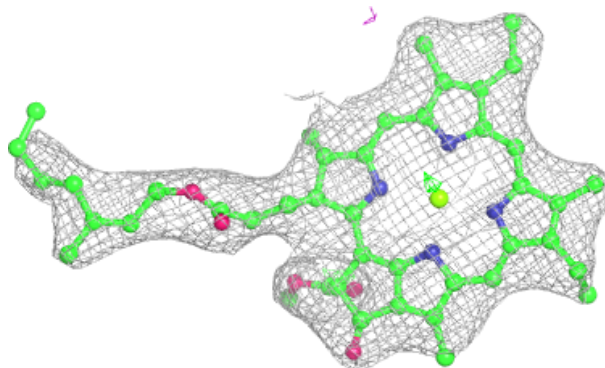


Electron density around CLA B 1221:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

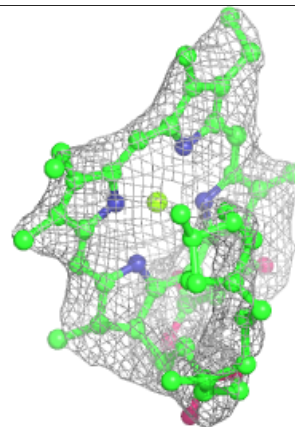
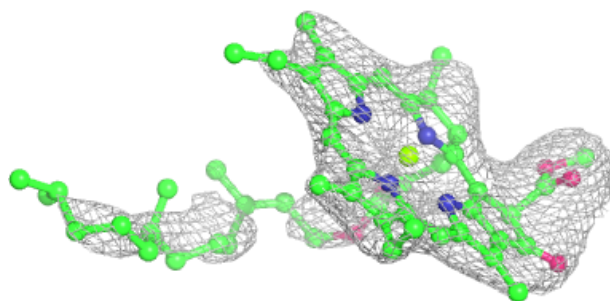
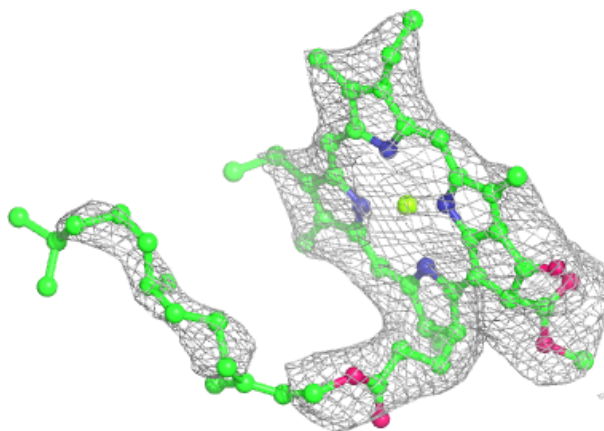
**Electron density around CLA b 1234:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



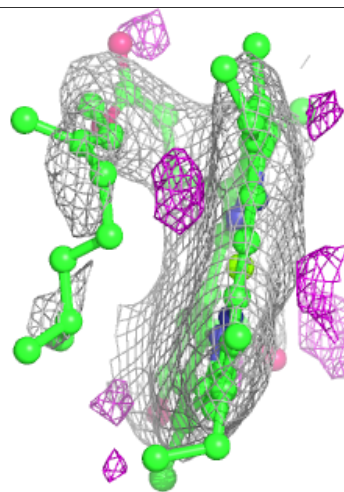
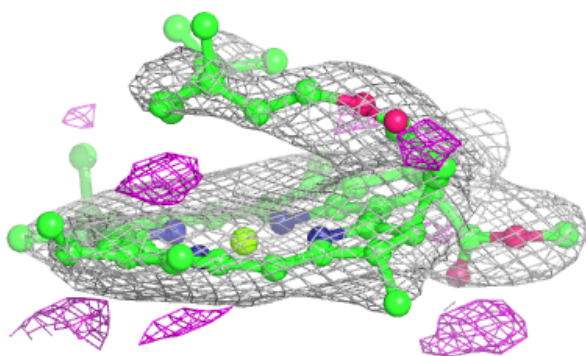
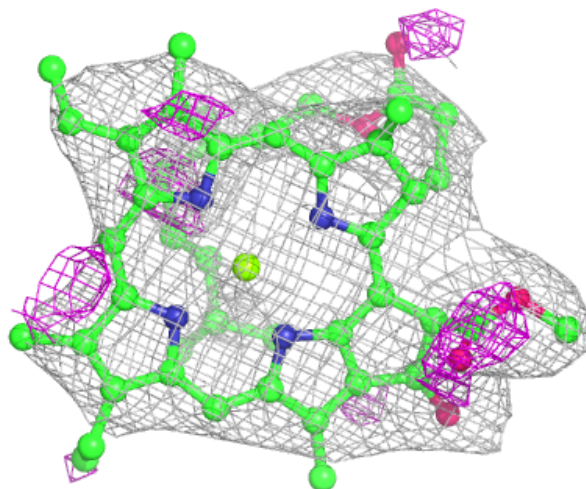
Electron density around CLA 1 1122:

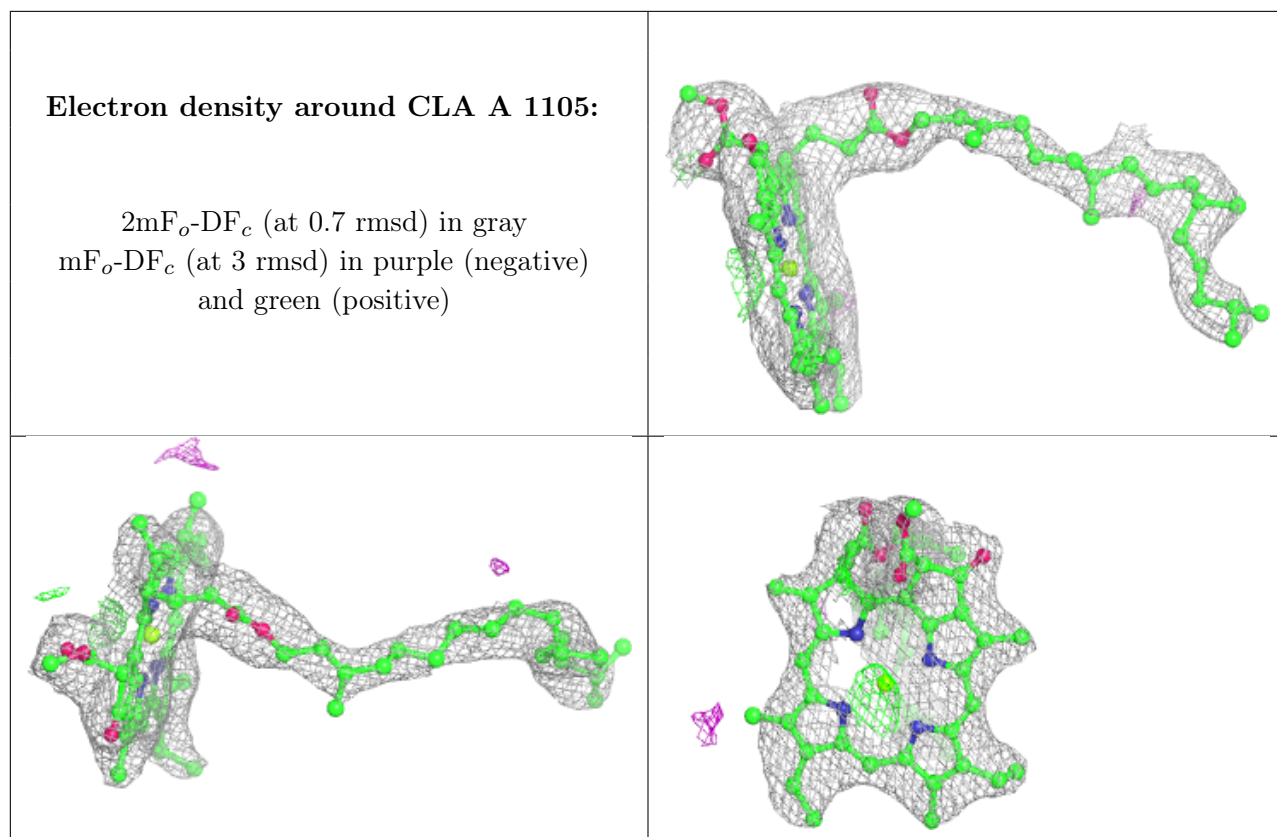
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA 2 1224:

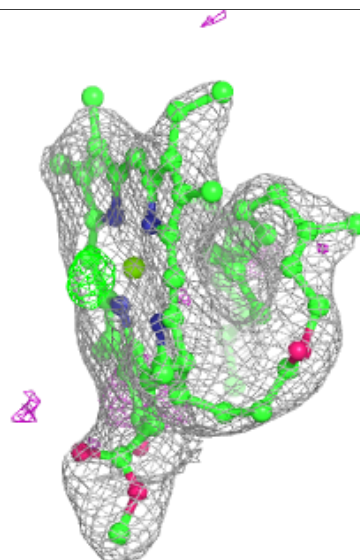
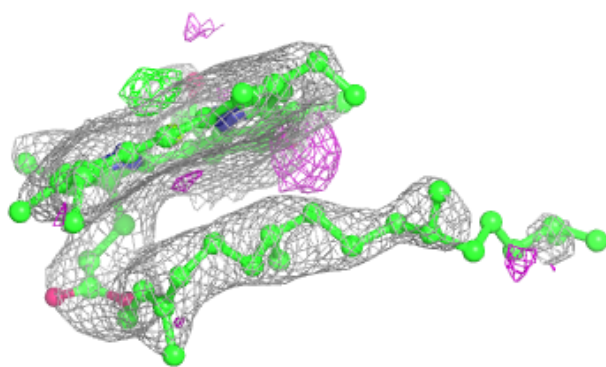
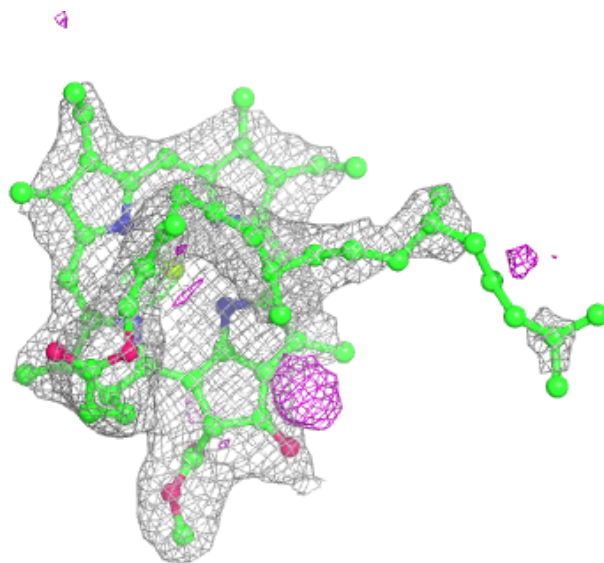
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

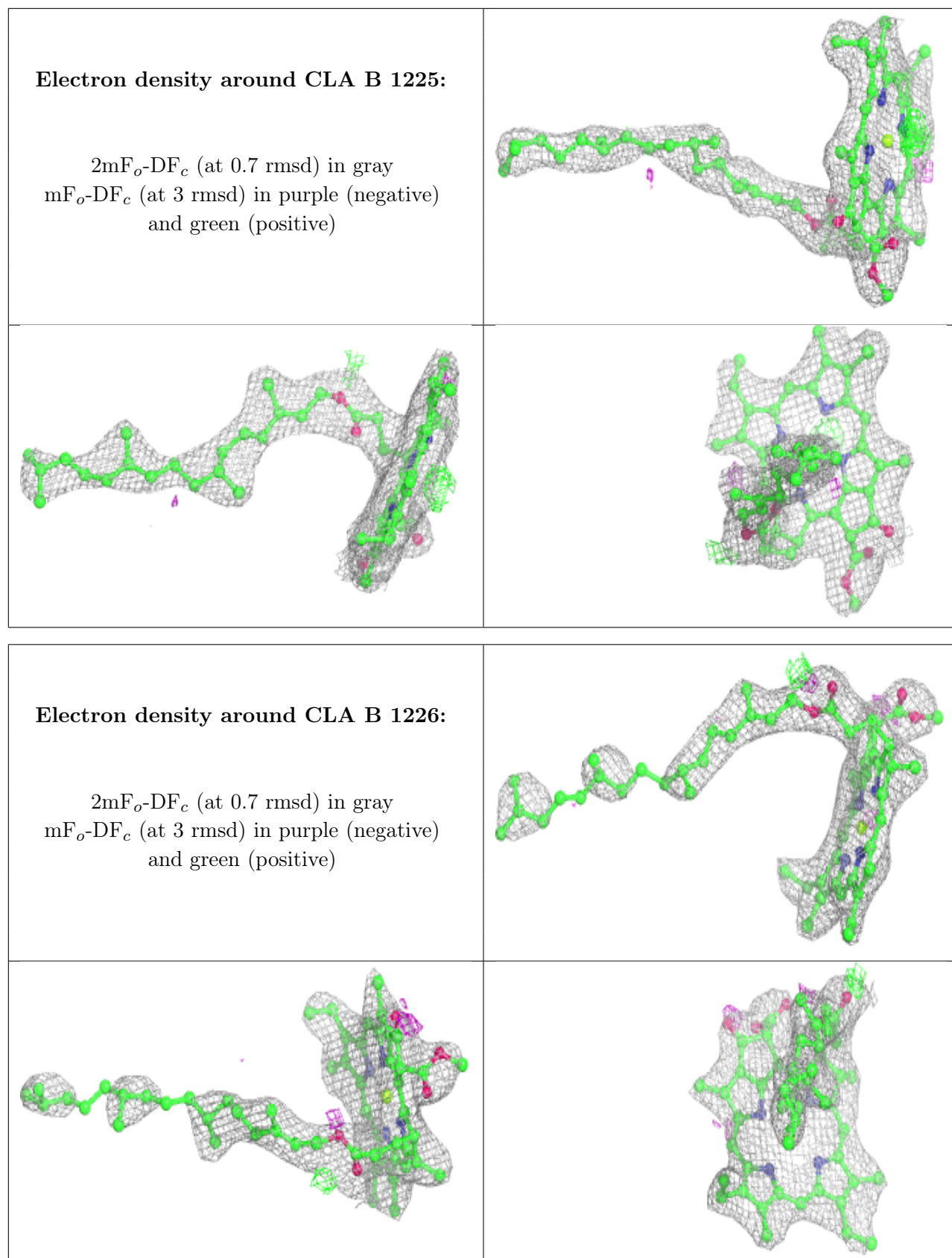




Electron density around CLA B 1224:

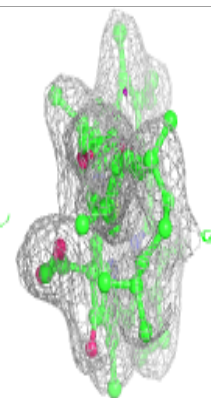
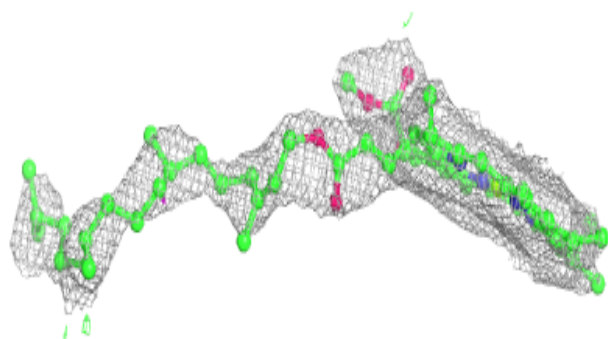
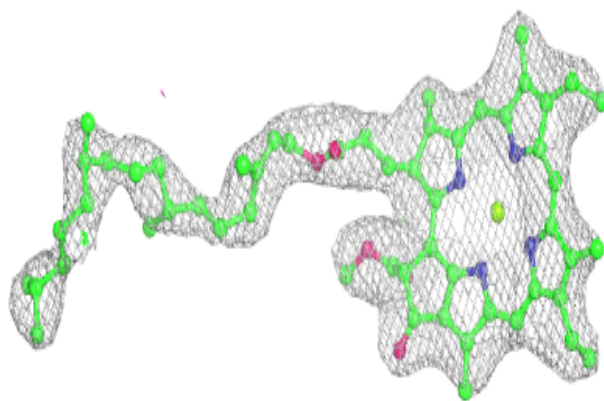
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



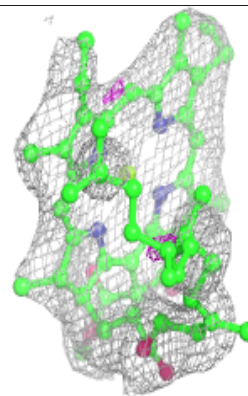
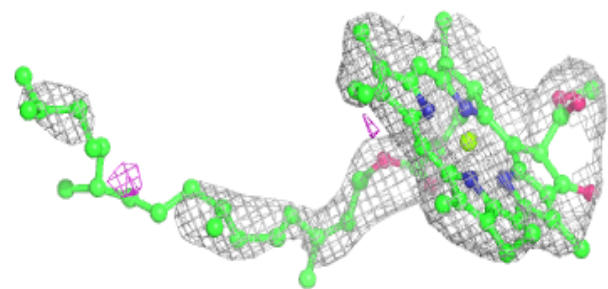
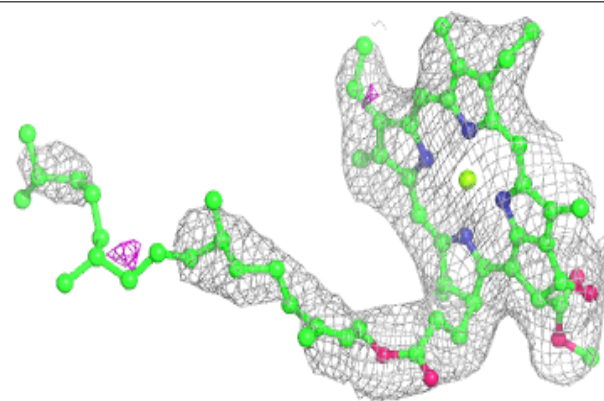


Electron density around CLA A 1139:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

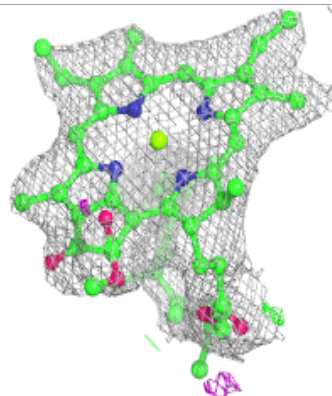
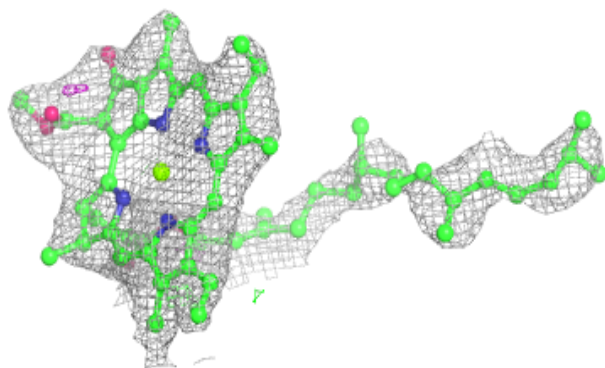
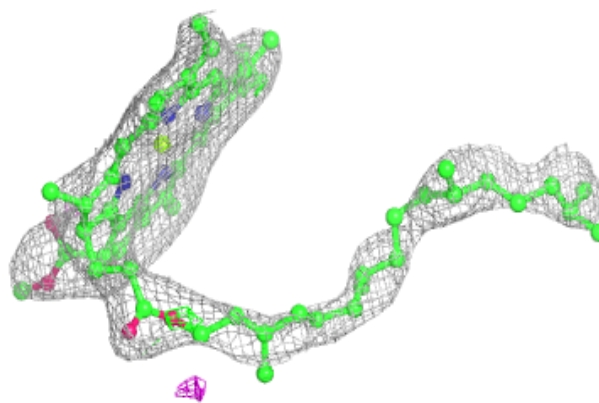
**Electron density around CLA A 1114:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

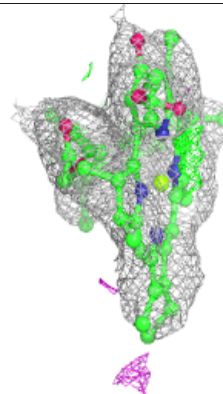
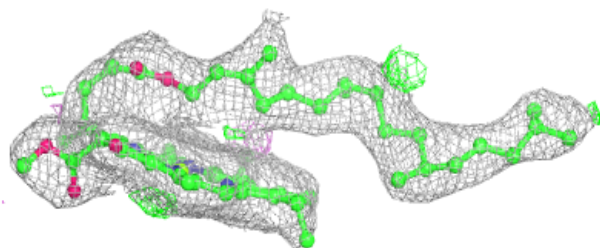
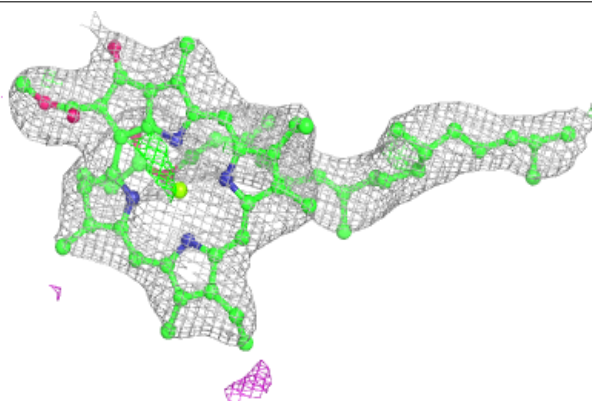


Electron density around CLA B 1208:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

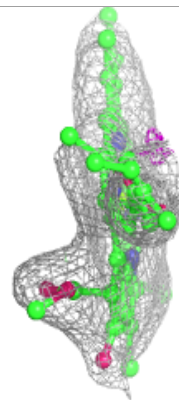
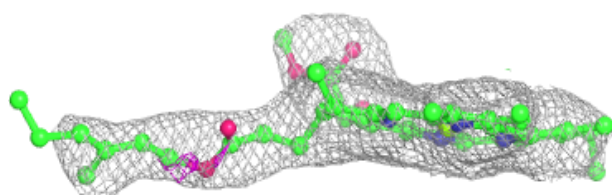
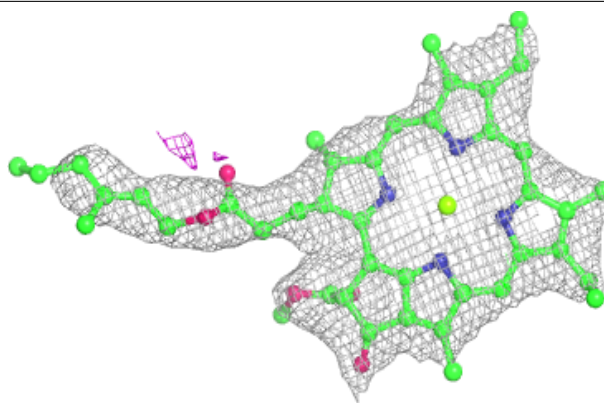
**Electron density around CLA A 1115:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

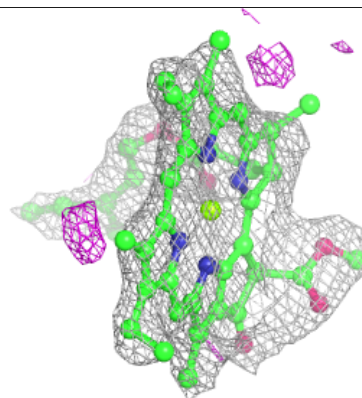
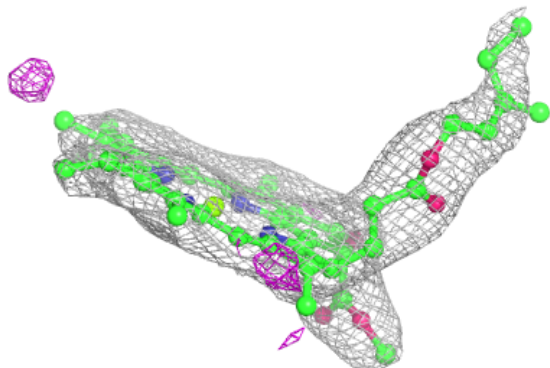
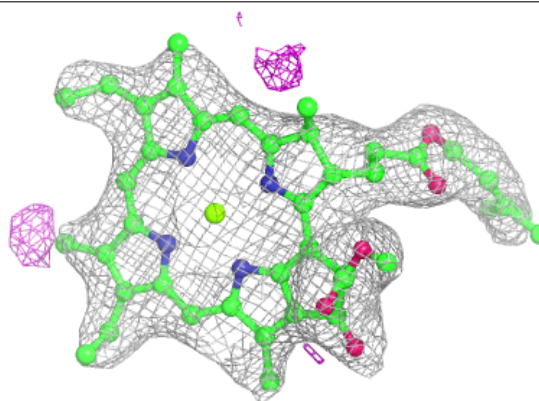


Electron density around CLA 1 1135:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

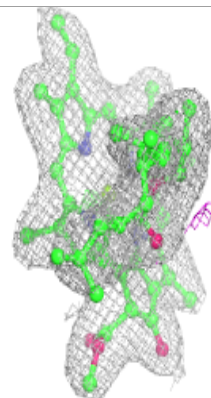
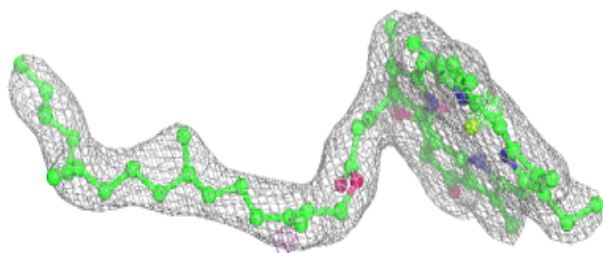
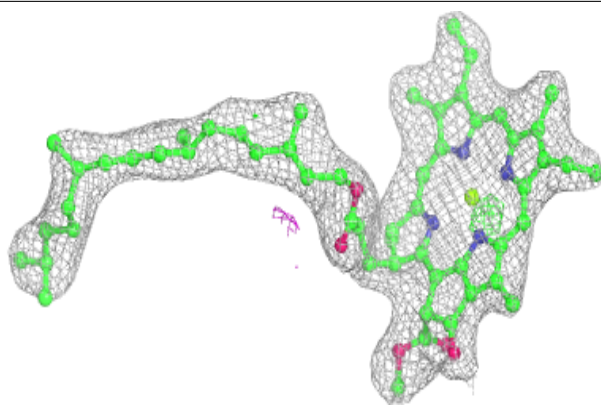
**Electron density around CLA 1 1137:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

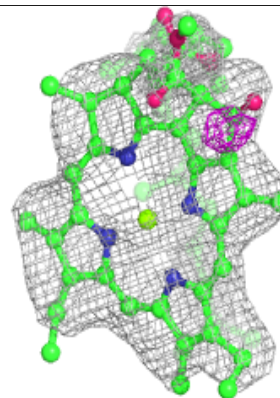
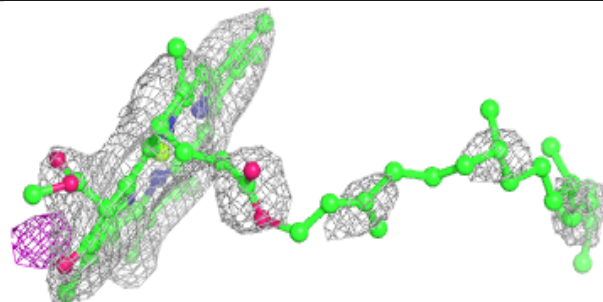
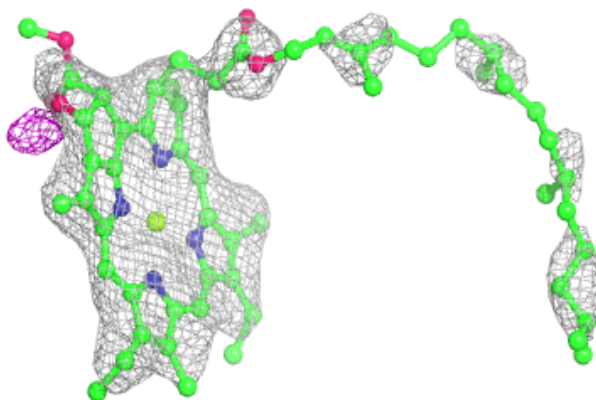


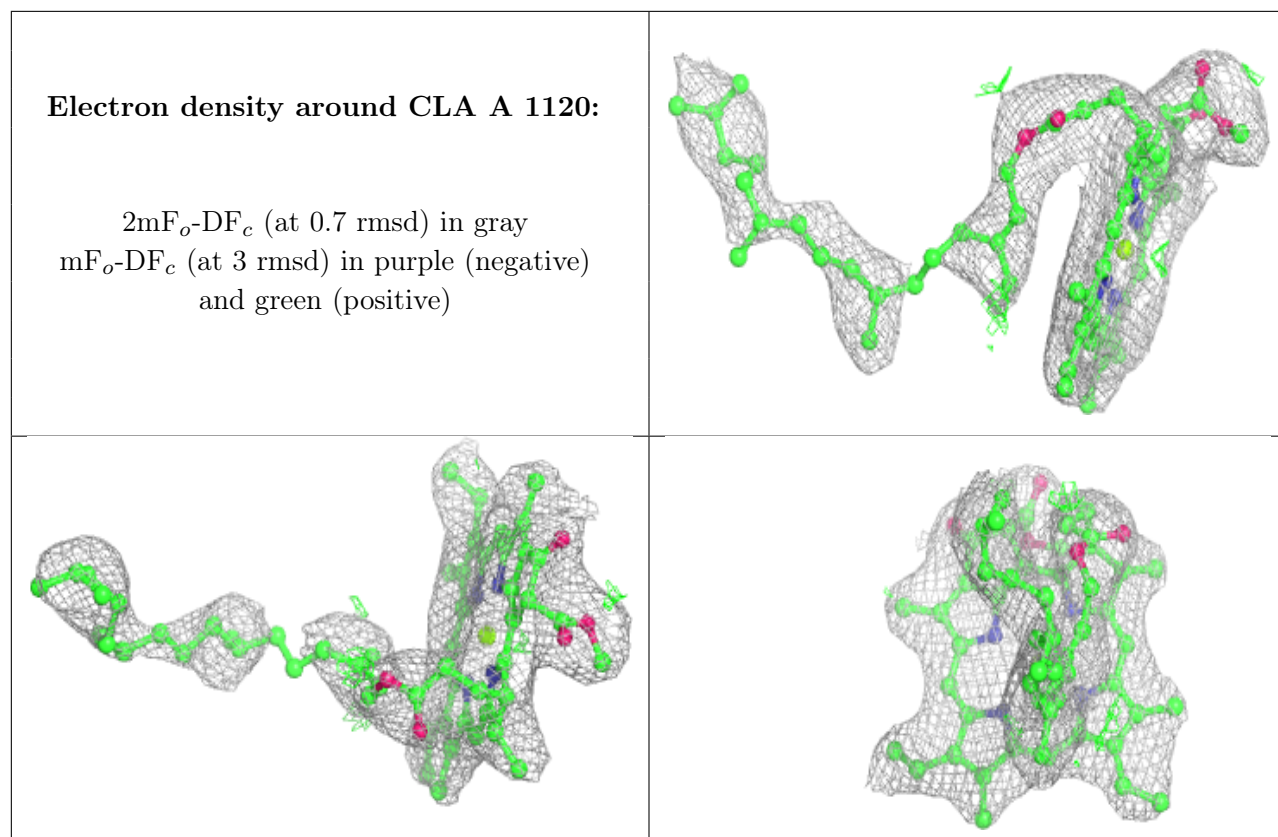
Electron density around CLA A 1119:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around CLA 1 1140:**

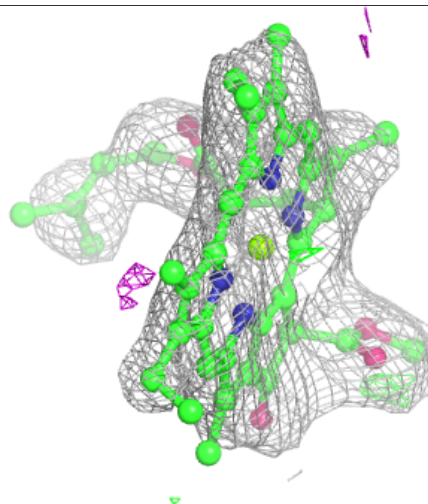
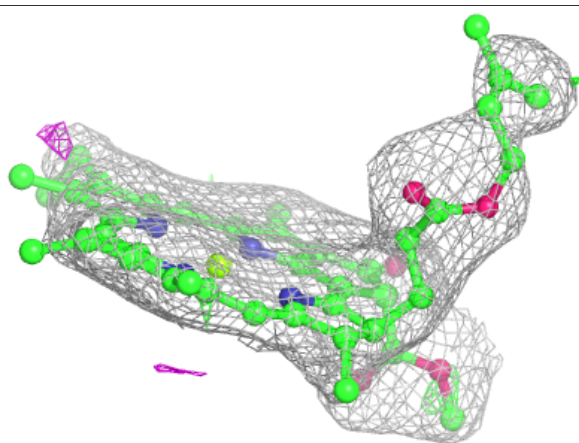
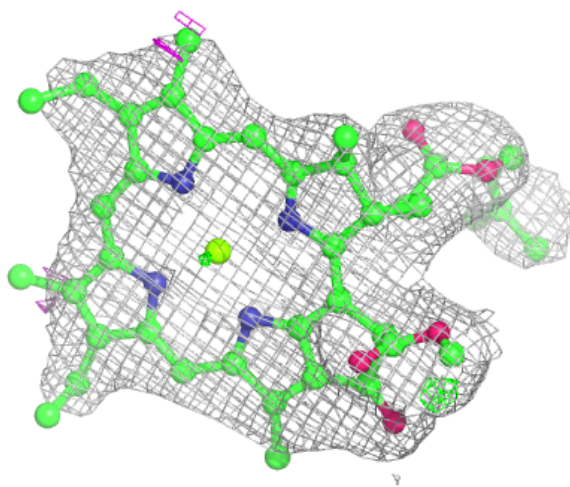
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





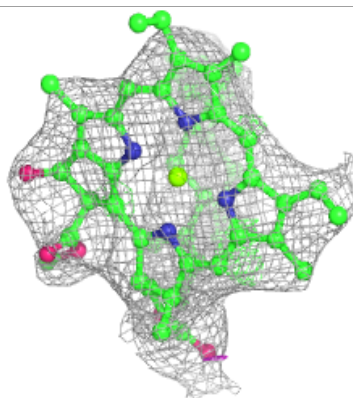
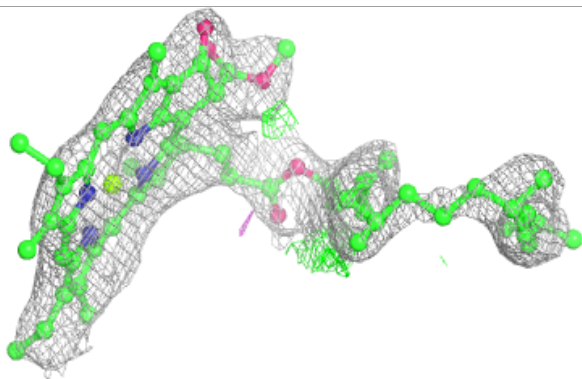
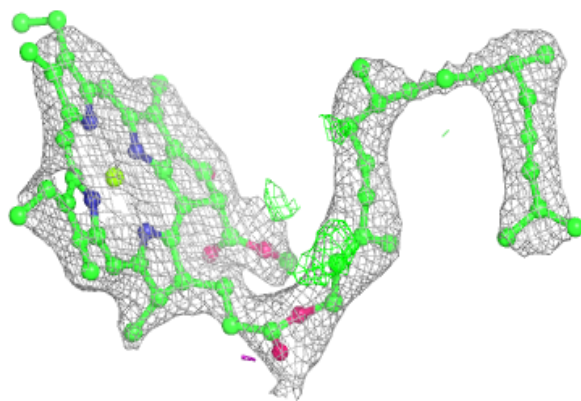
Electron density around CLA B 1236:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

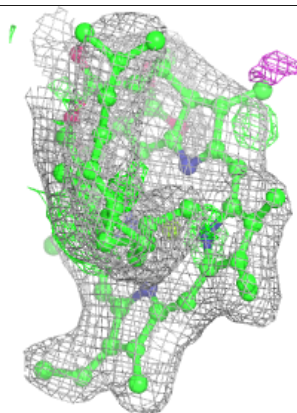
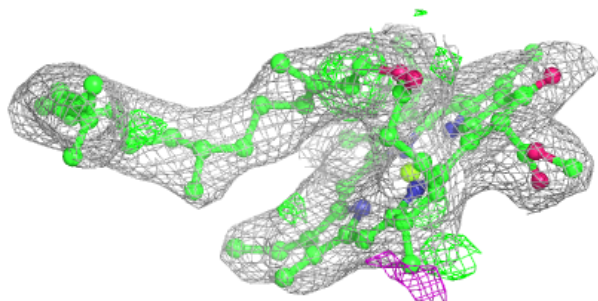
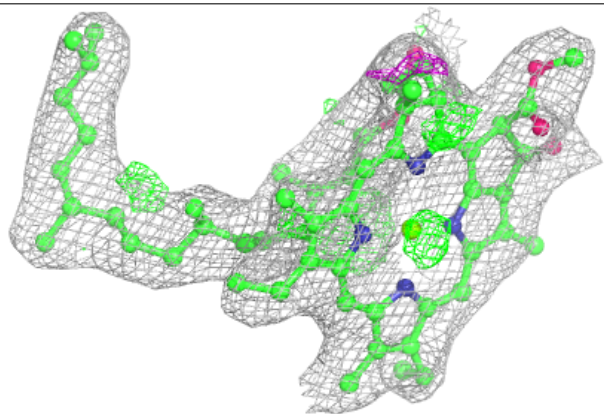


Electron density around CLA 1 1011:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

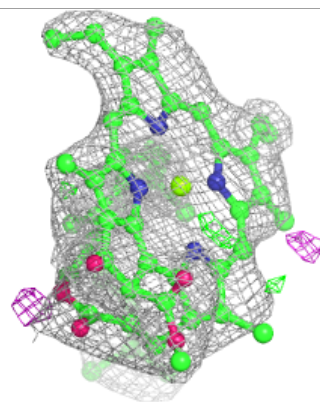
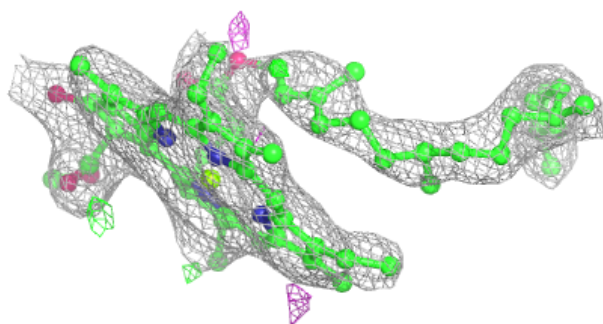
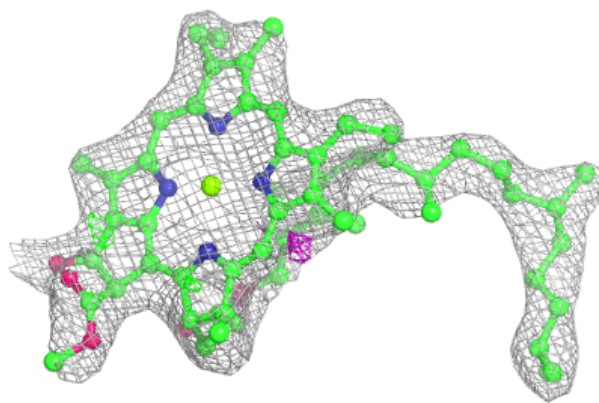
**Electron density around CLA 2 1237:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



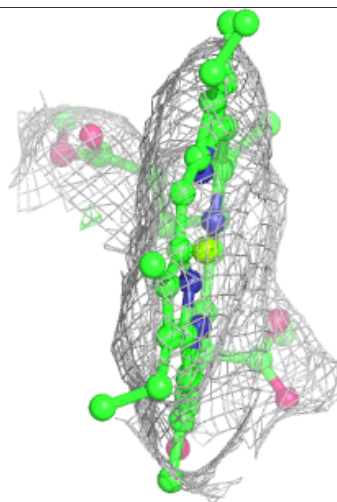
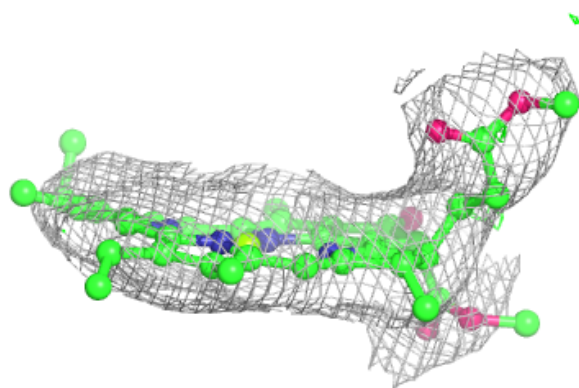
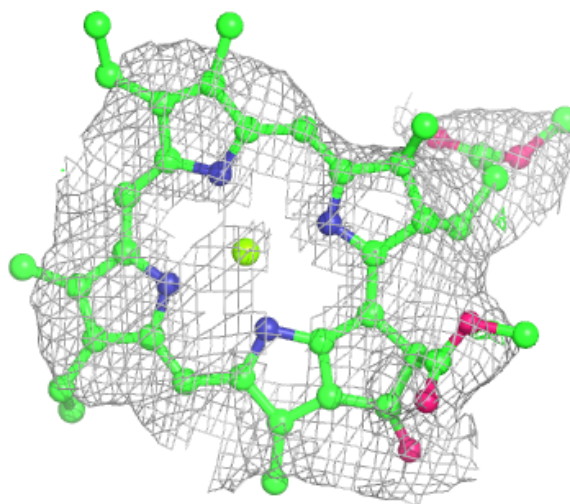
Electron density around CLA b 1237:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



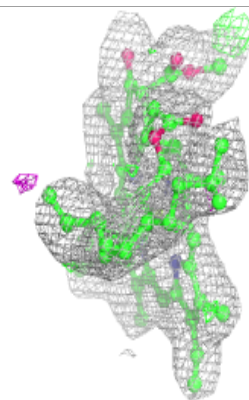
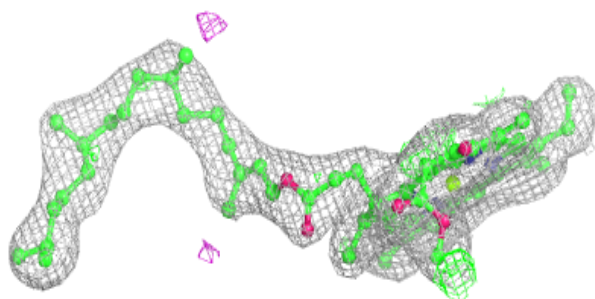
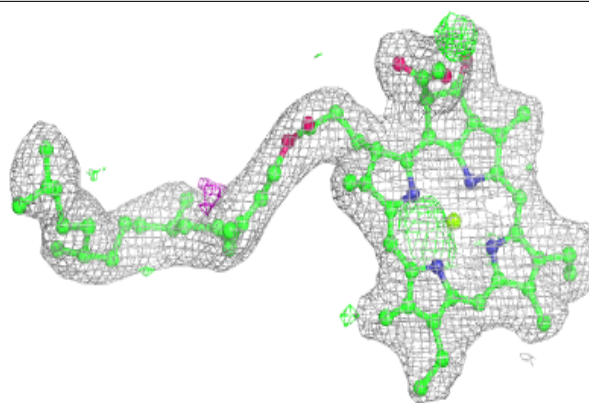
Electron density around CLA 8 1402:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

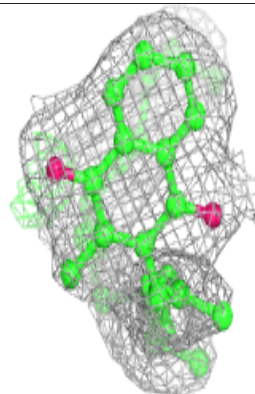
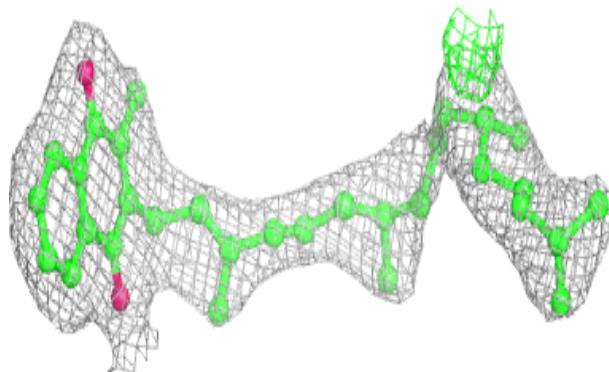
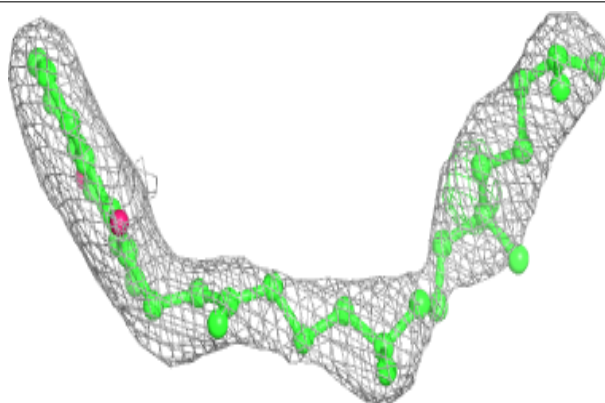


Electron density around CLA b 1210:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

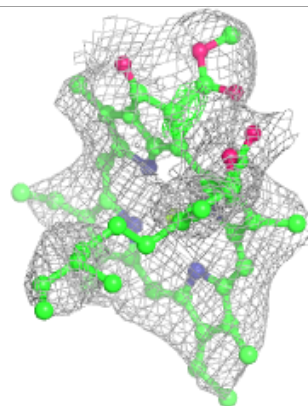
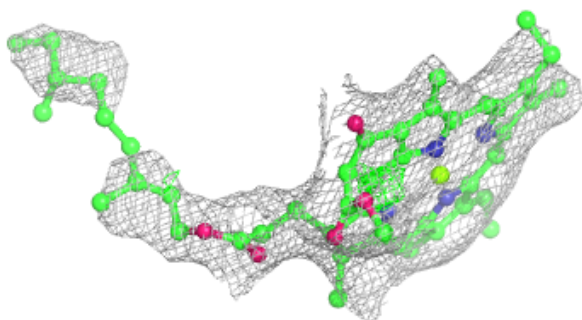
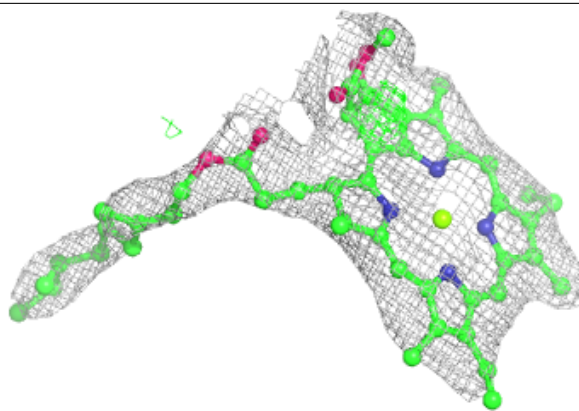
**Electron density around PQN b 2002:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

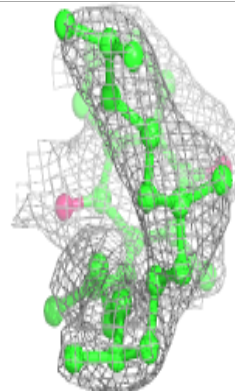
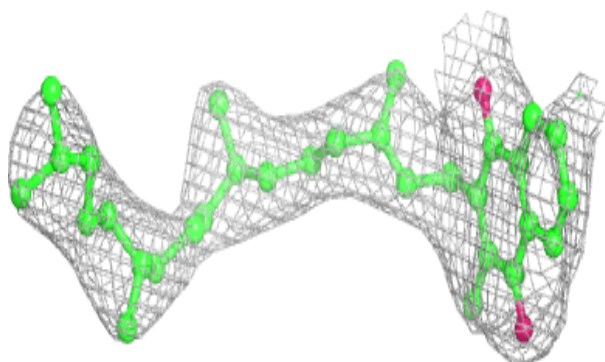
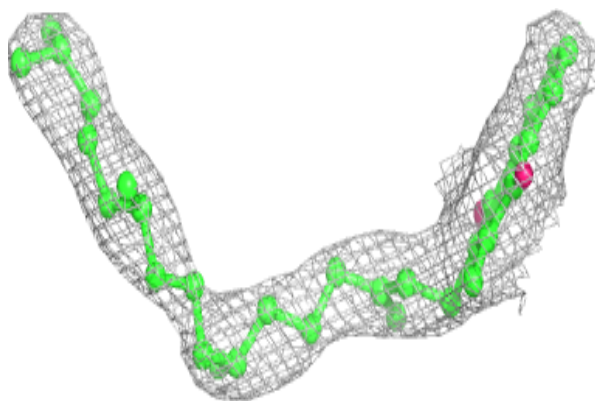


Electron density around CLA 1 1801:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

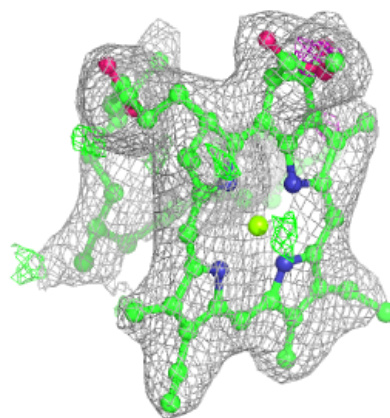
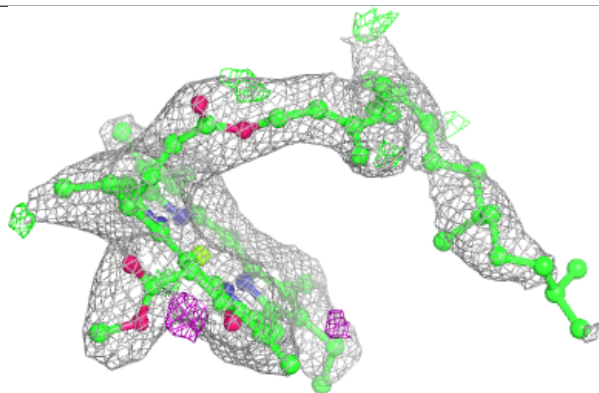
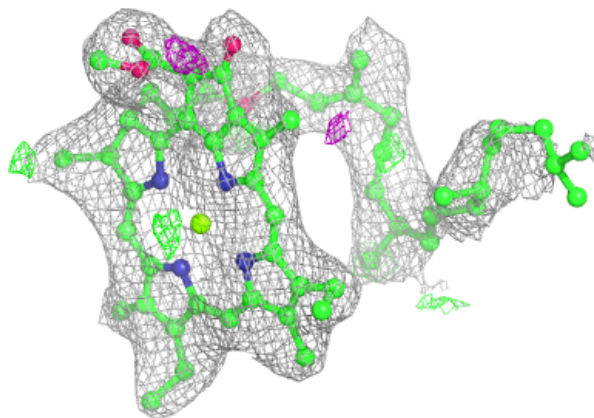
**Electron density around PQN 2 2002:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



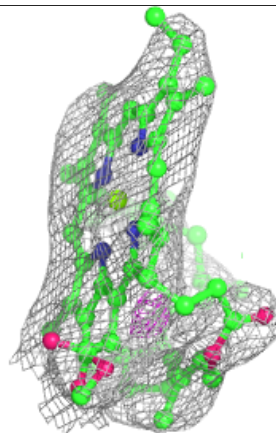
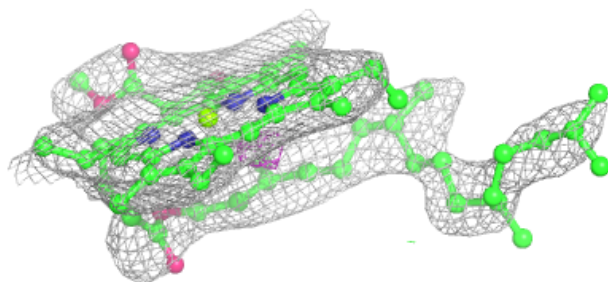
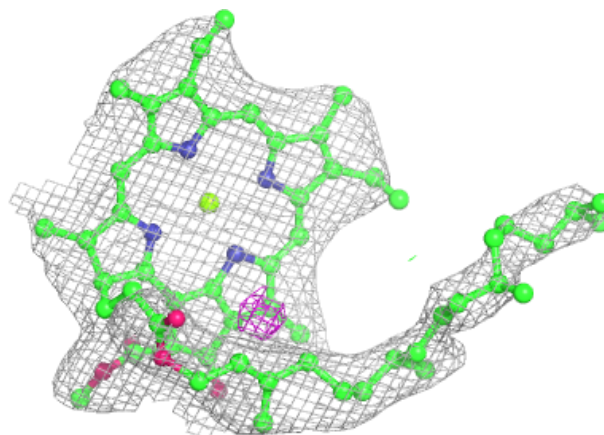
Electron density around CLA b 1211:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

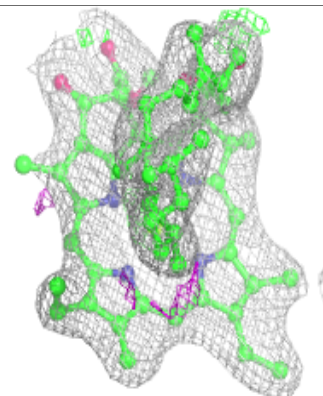
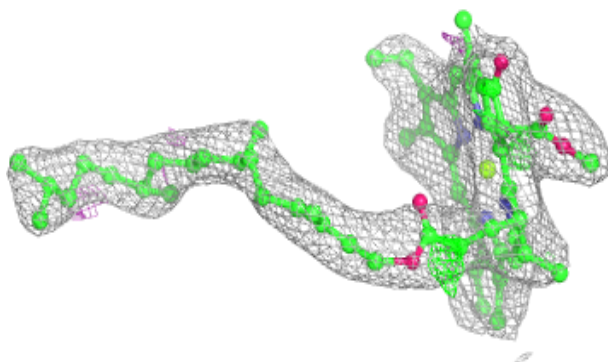
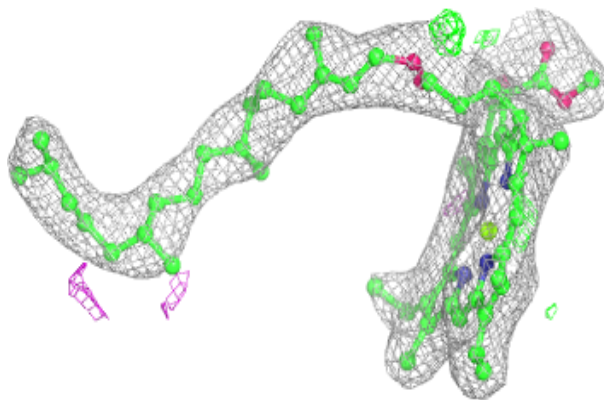


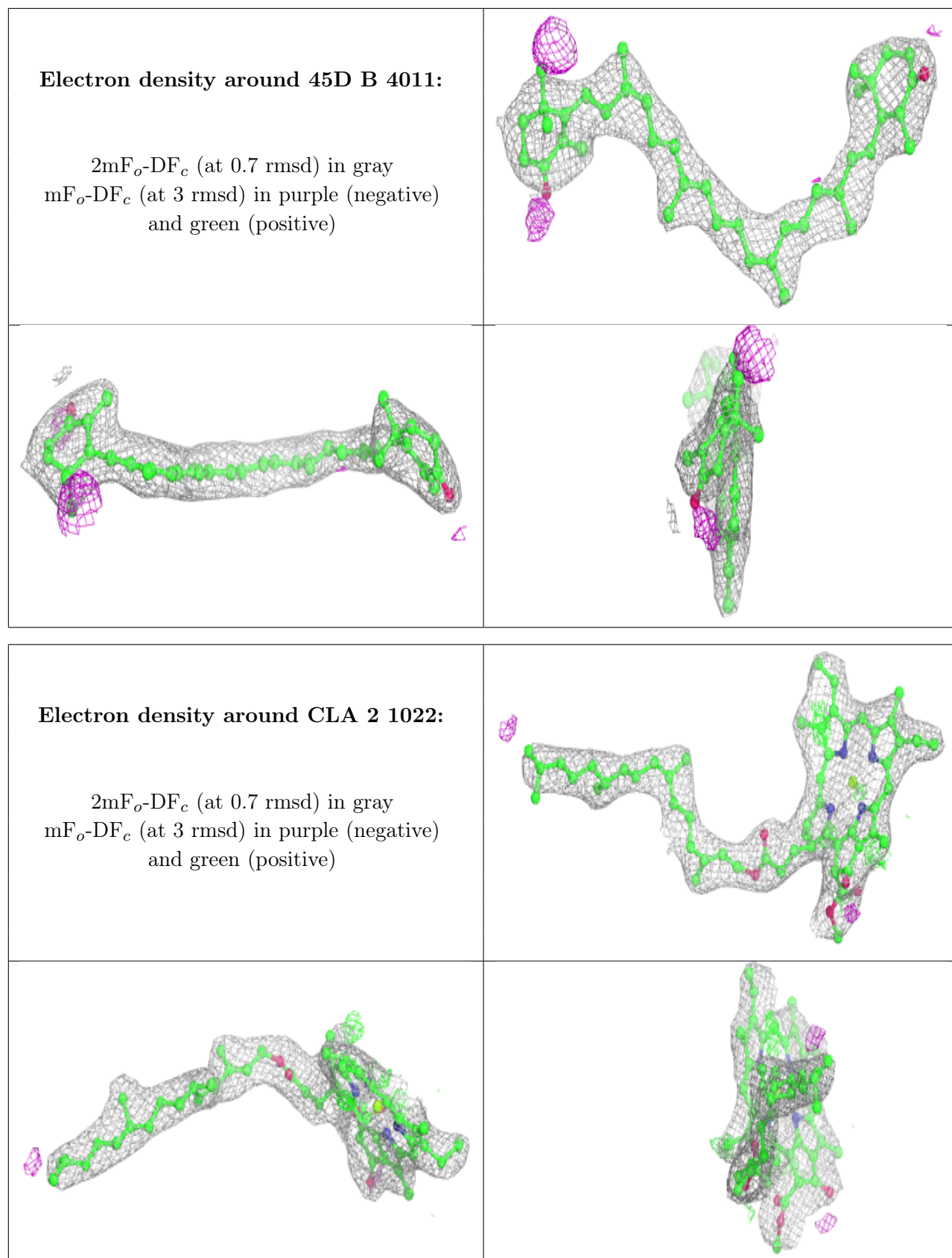
Electron density around CLA a 1127:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around CLA A 1128:**

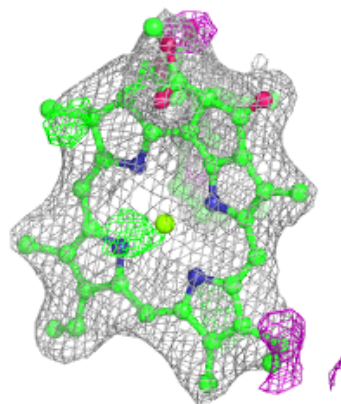
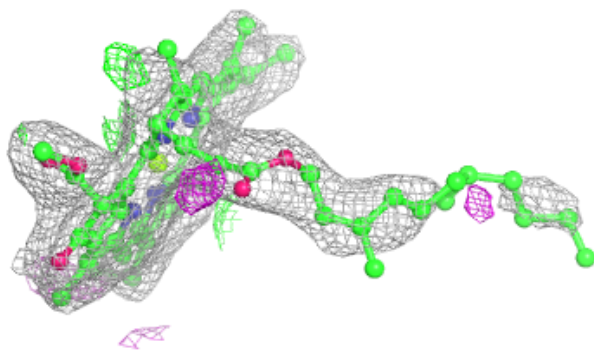
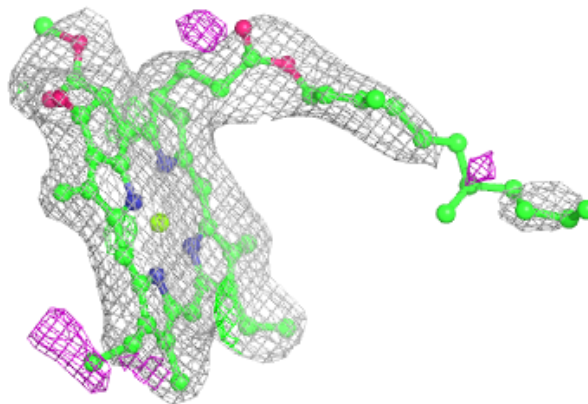
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



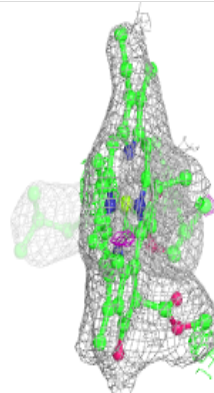
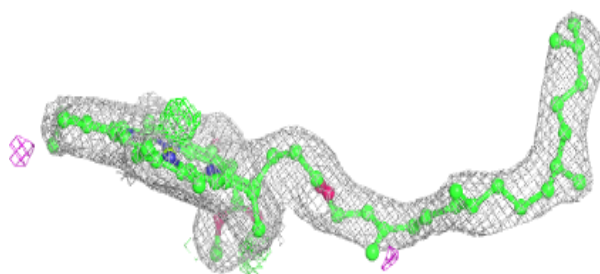
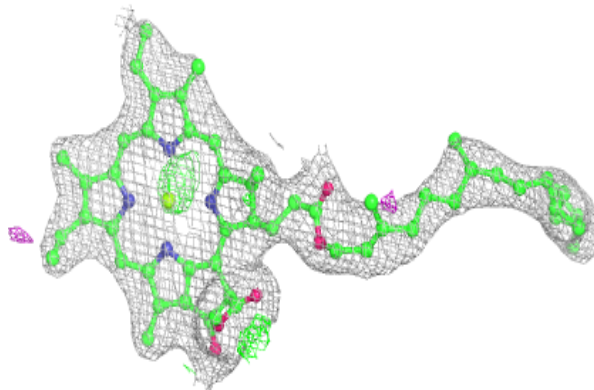


Electron density around CLA A 1129:

$2mF_o-DF_c$ (at 0.7 rnsd) in gray
 mF_o-DF_c (at 3 rnsd) in purple (negative)
and green (positive)

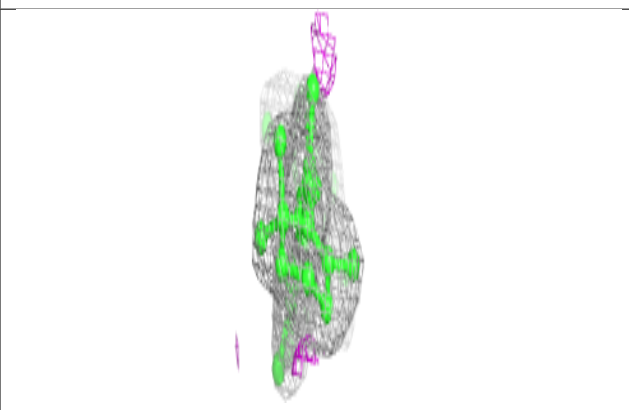
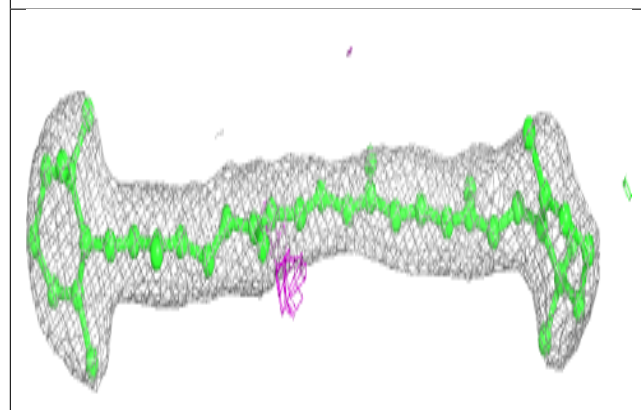
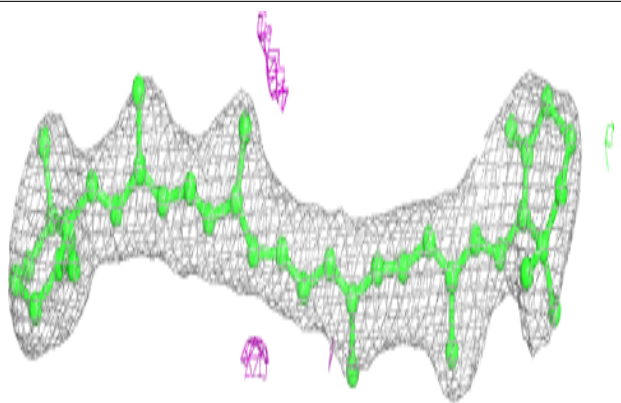
**Electron density around CLA A 1103:**

$2mF_o-DF_c$ (at 0.7 rnsd) in gray
 mF_o-DF_c (at 3 rnsd) in purple (negative)
and green (positive)

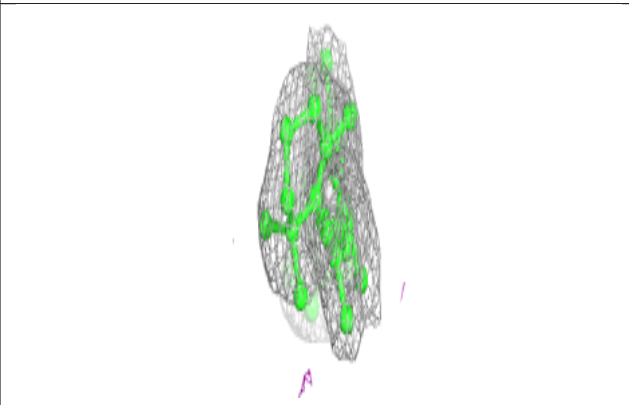
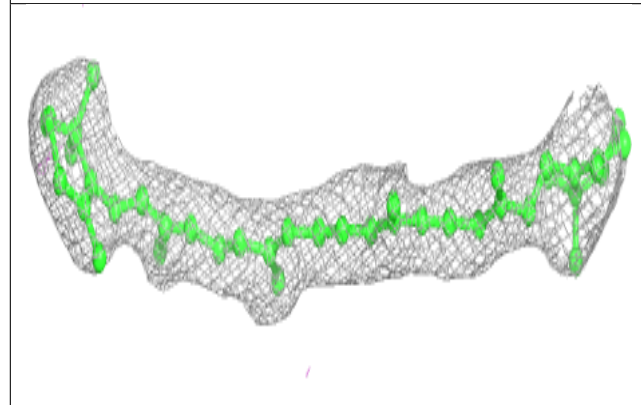
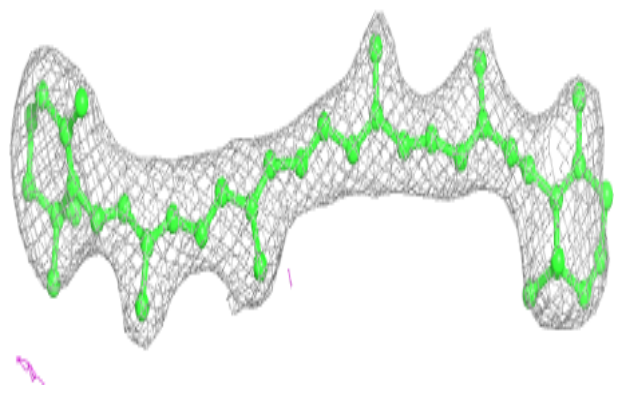


Electron density around BCR A 4007:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

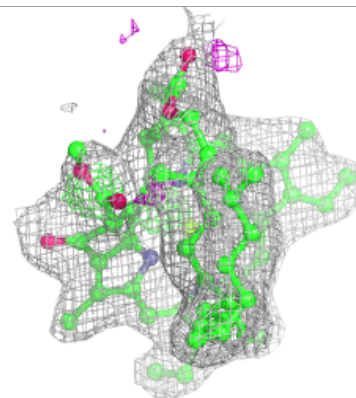
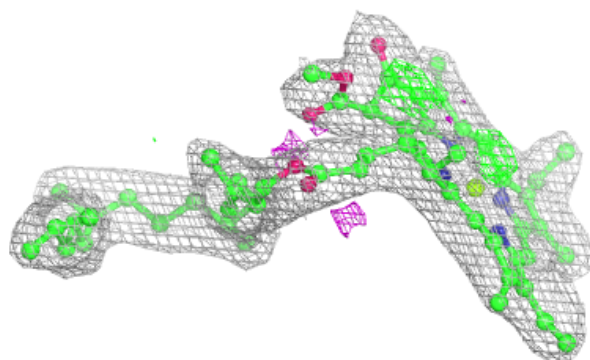
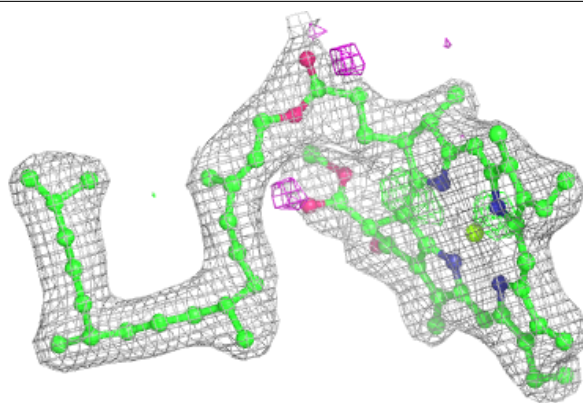
**Electron density around BCR A 4008:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

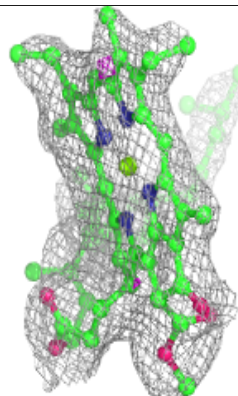
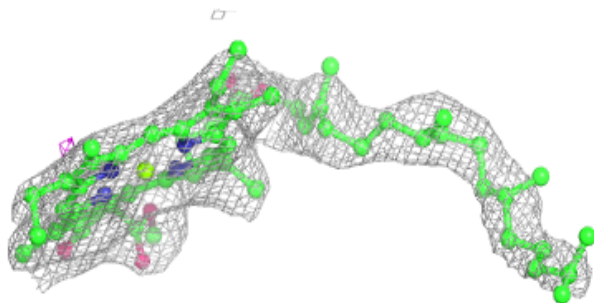
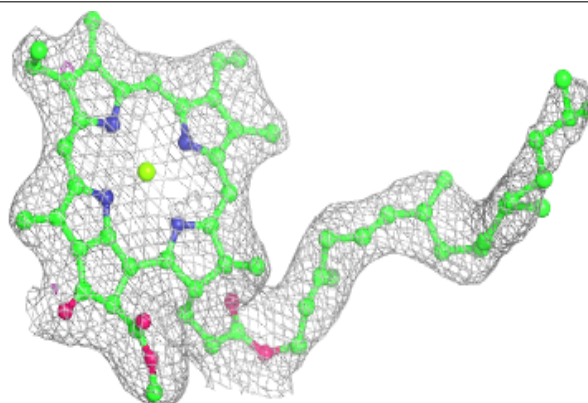


Electron density around CLA A 1011:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

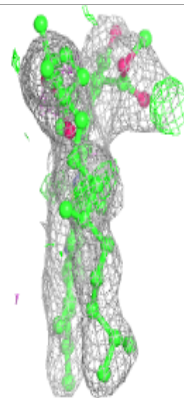
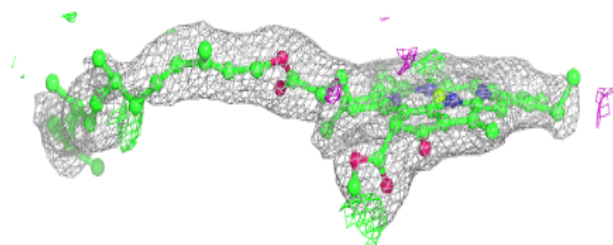
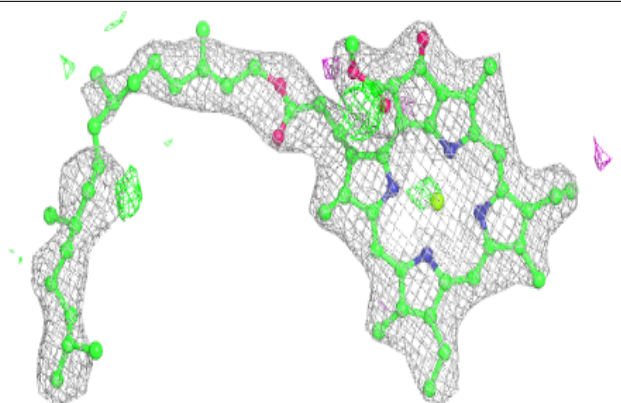
**Electron density around CLA a 1013:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

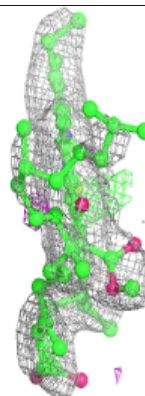
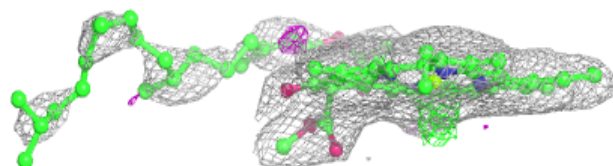
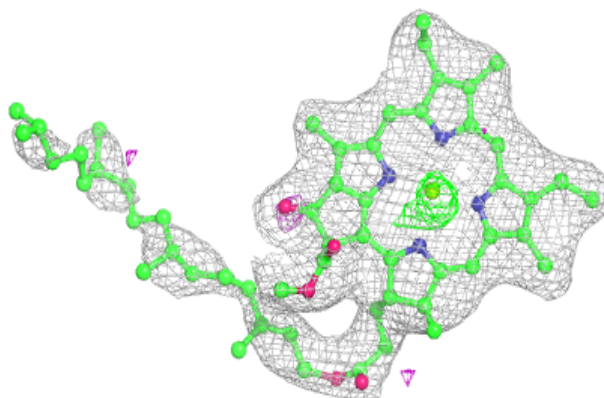


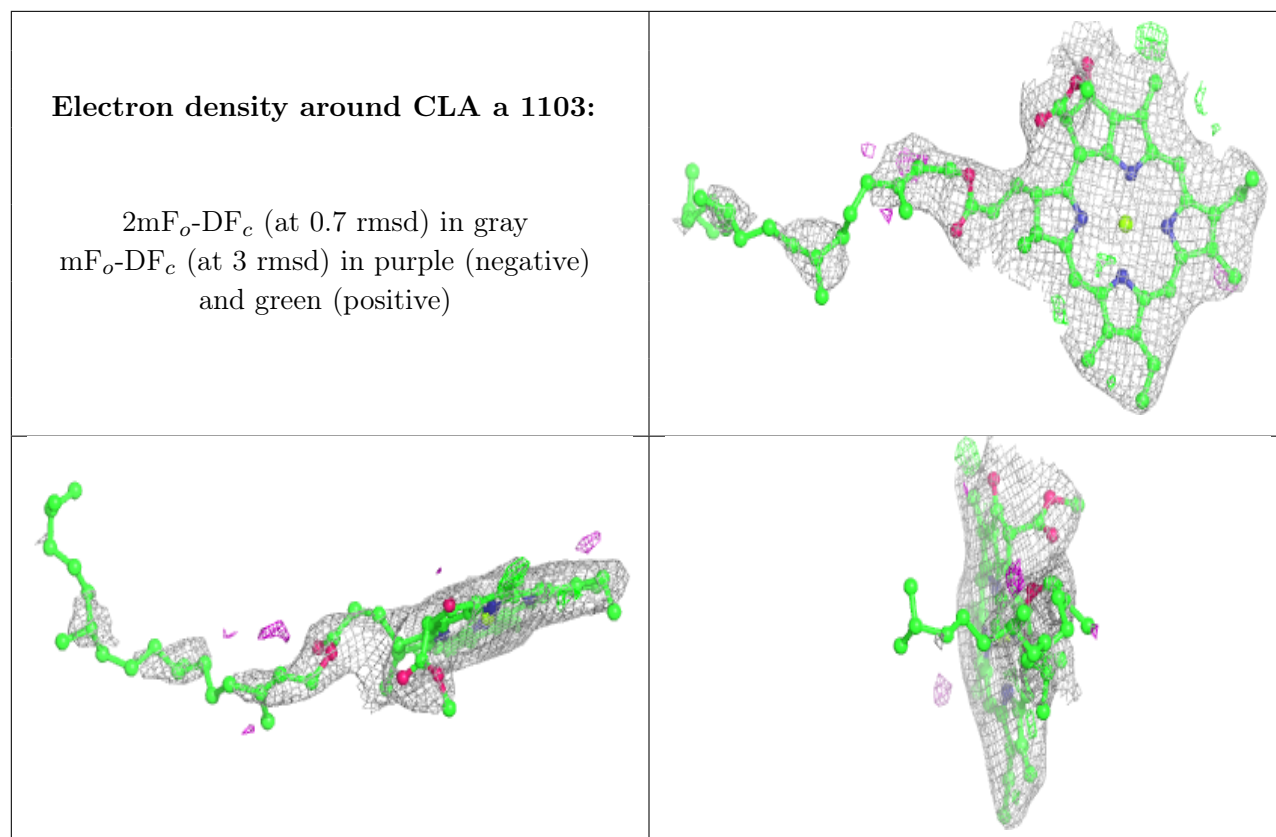
Electron density around CLA A 1135:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around CLA 1 1503:**

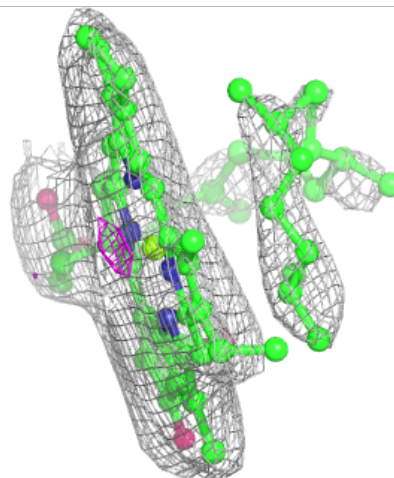
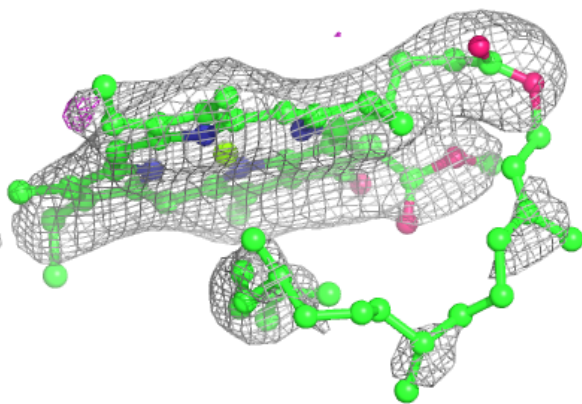
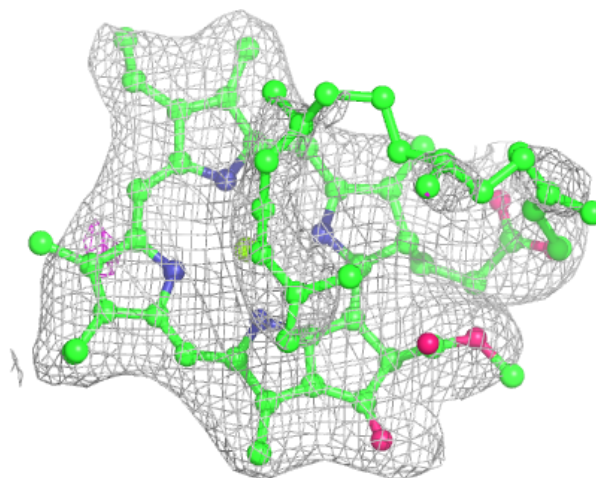
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





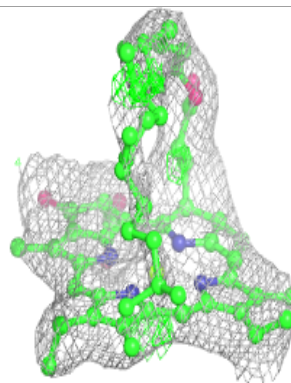
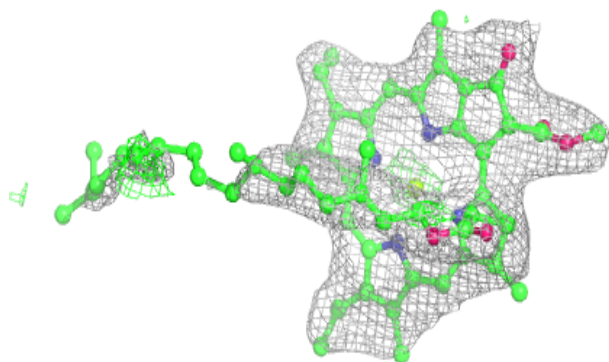
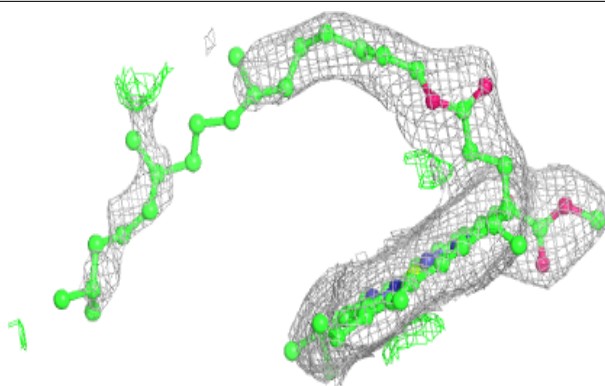
Electron density around CLA a 1104:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

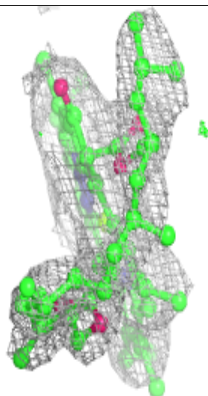
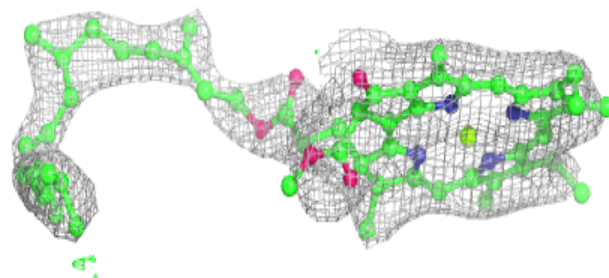
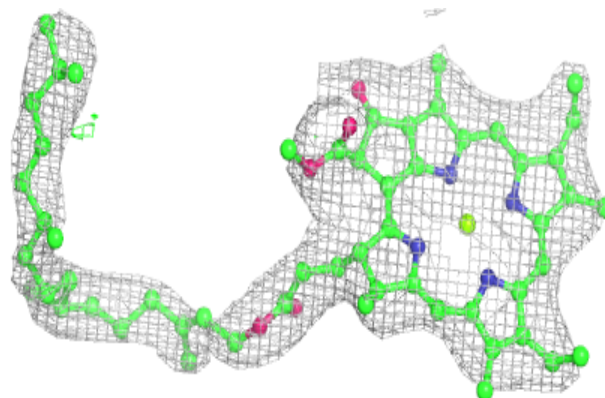


Electron density around CLA a 1130:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

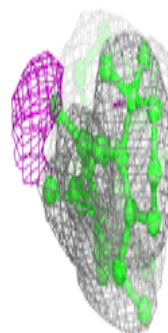
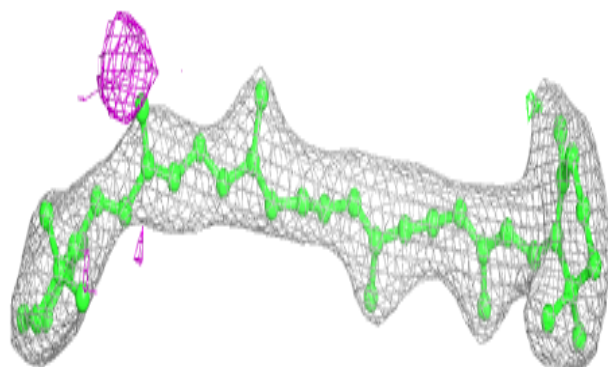
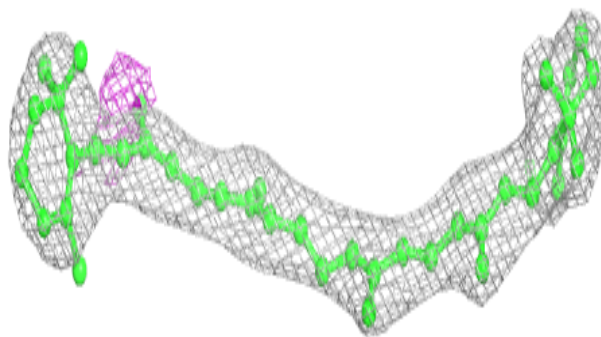
**Electron density around CLA B 1223:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

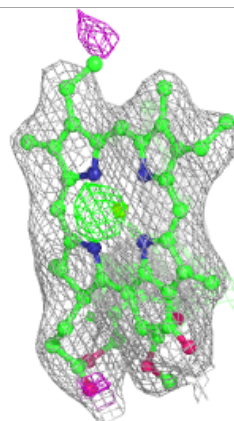
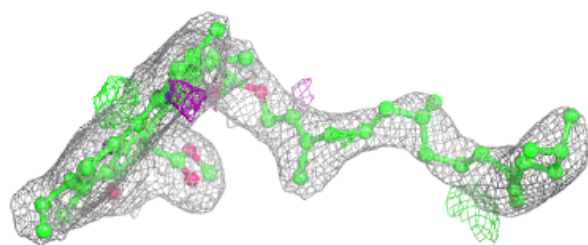
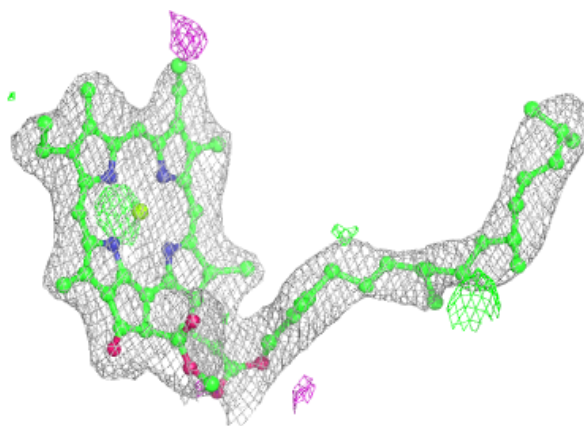


Electron density around BCR I 4018:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

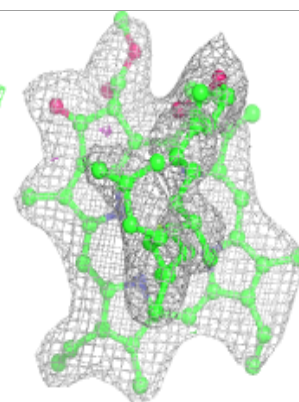
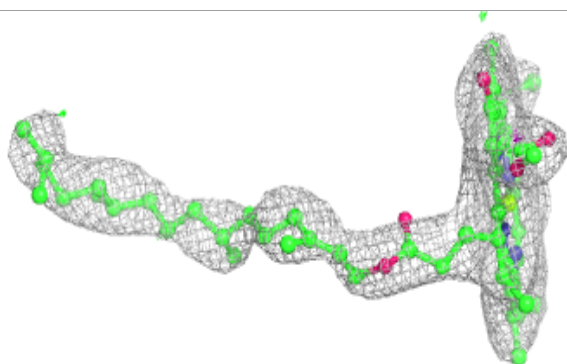
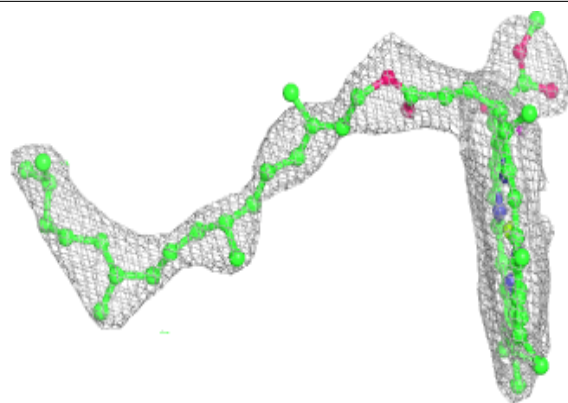
**Electron density around CLA B 1207:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

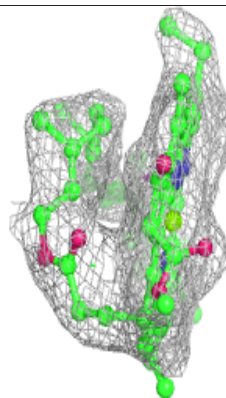
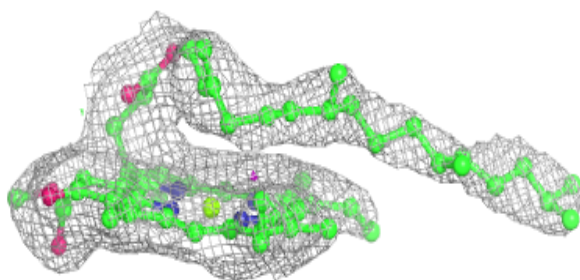
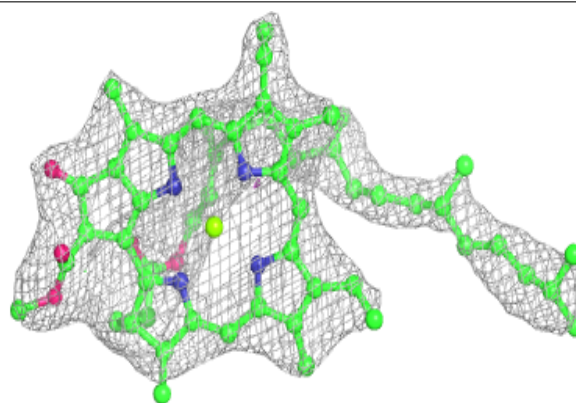


Electron density around CLA 2 1239:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

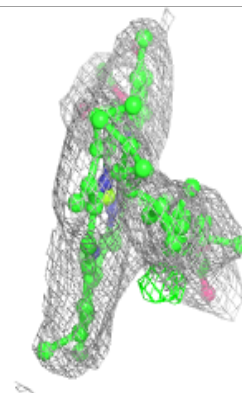
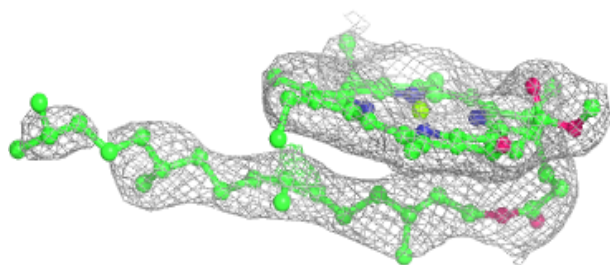
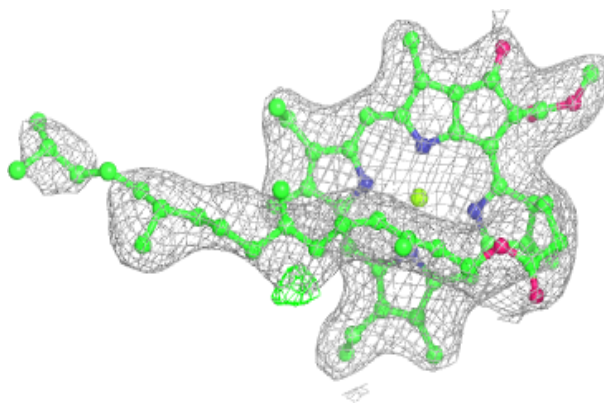
**Electron density around CLA A 1138:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

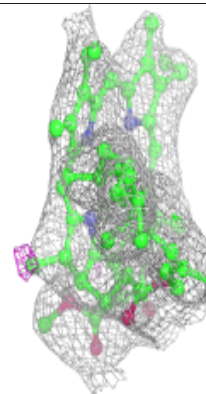
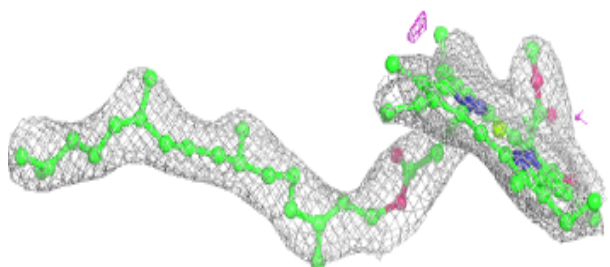
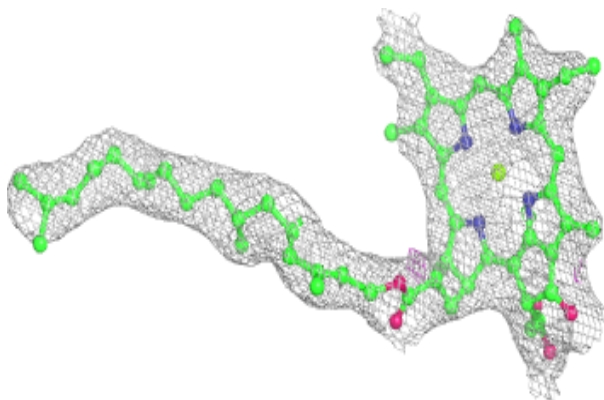


Electron density around CLA A 1116:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

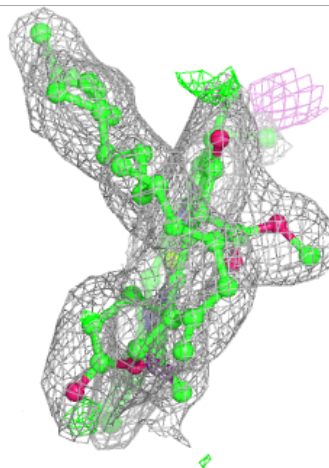
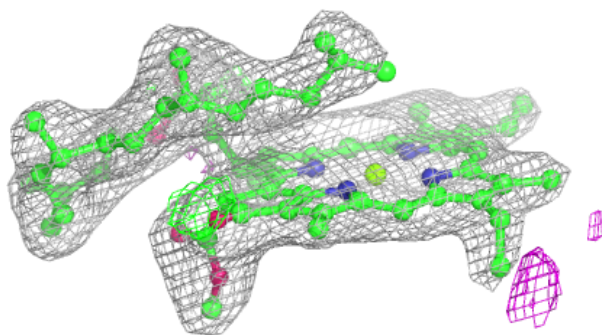
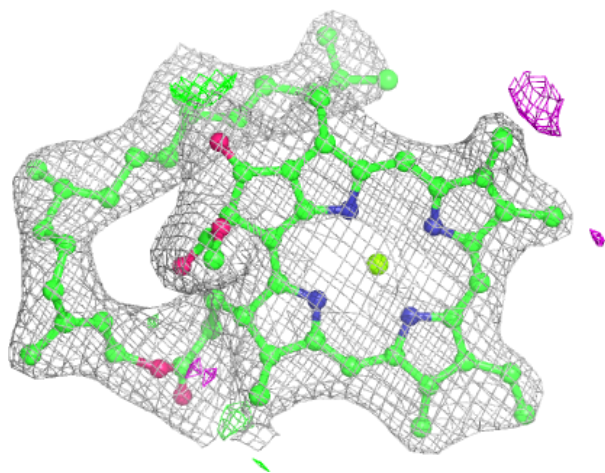
**Electron density around CLA 1 1132:**

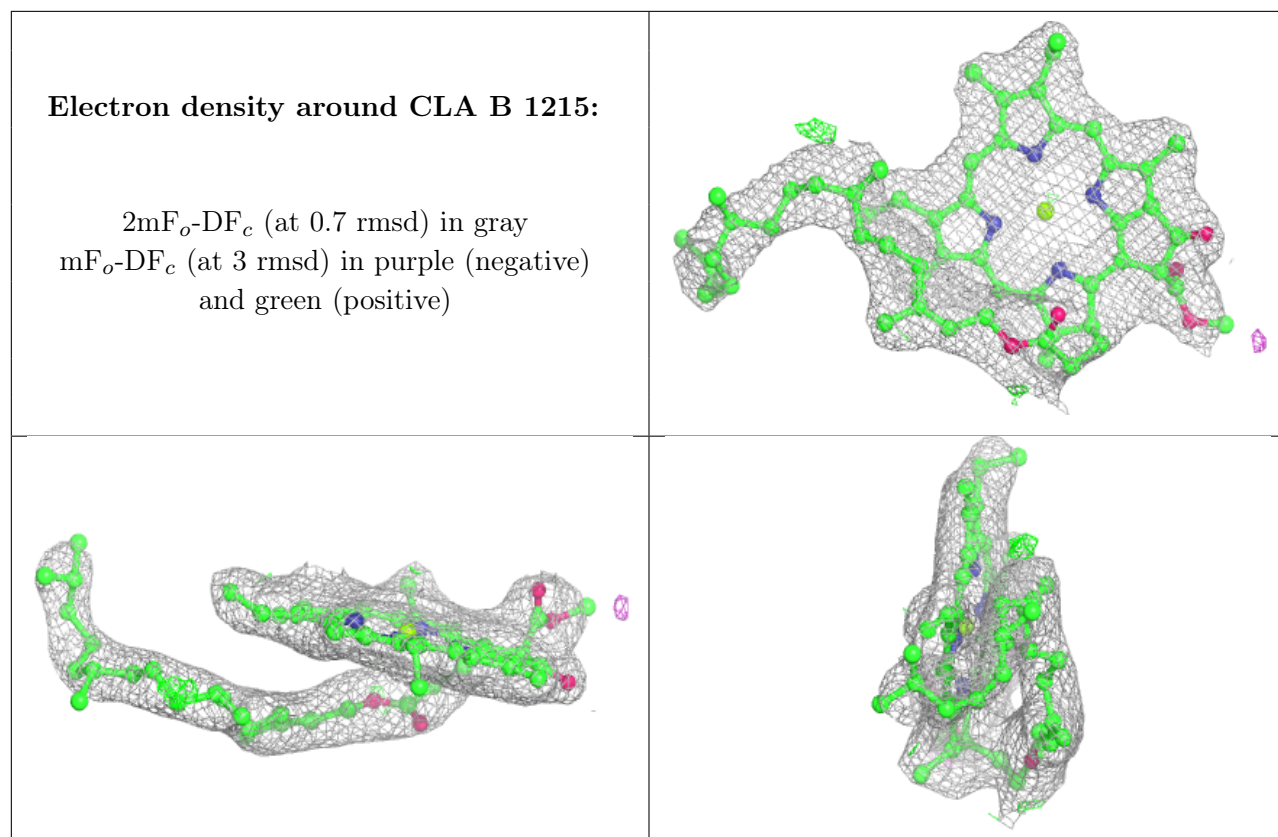
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA b 1202:

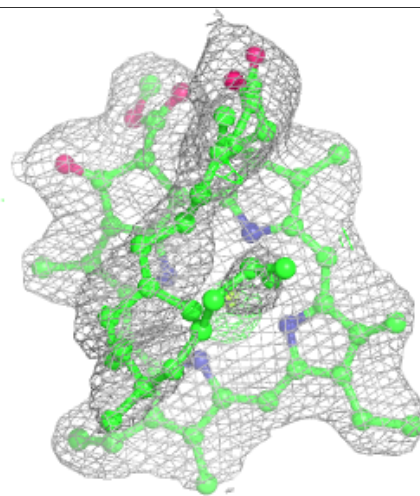
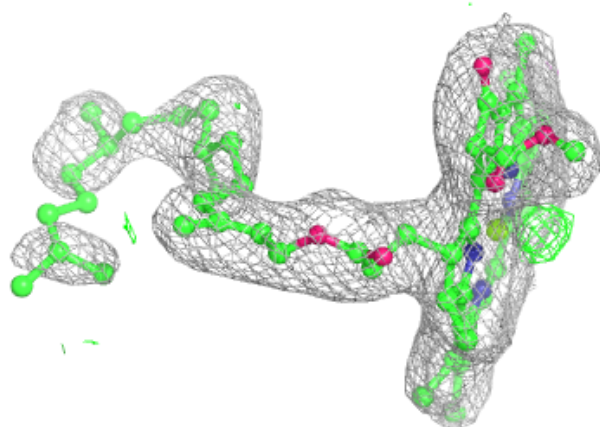
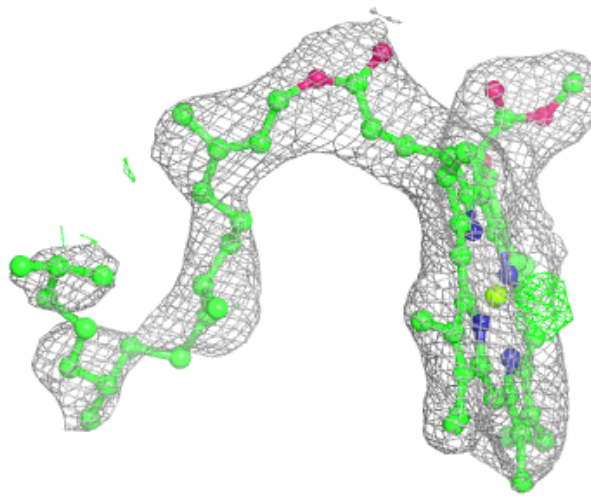
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





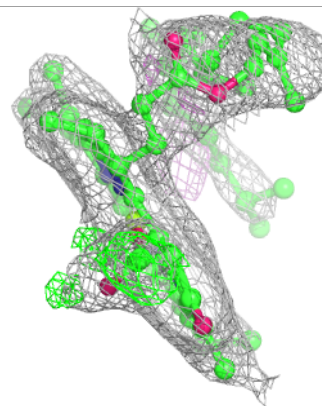
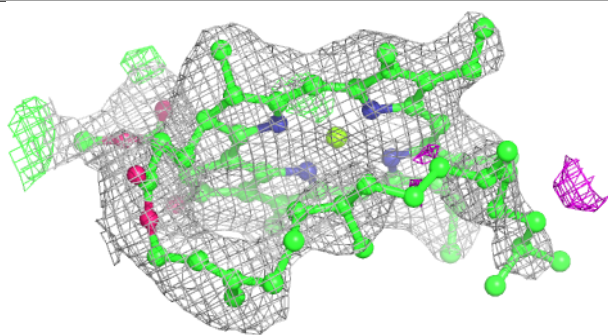
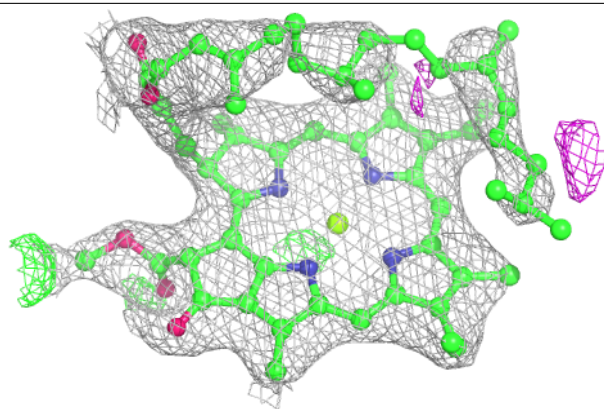
Electron density around CLA A 1801:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

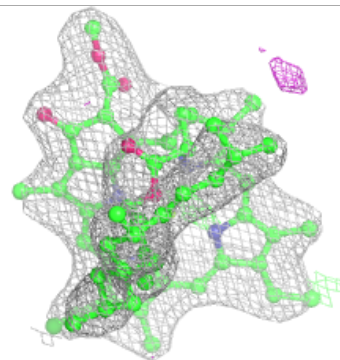
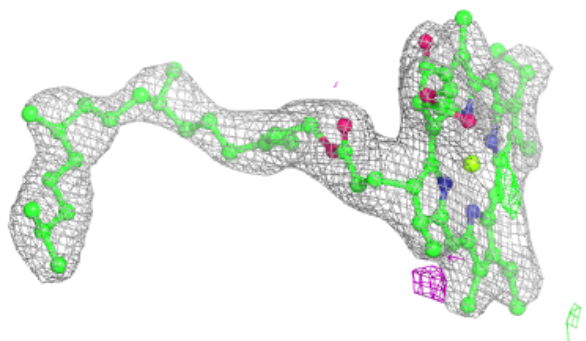
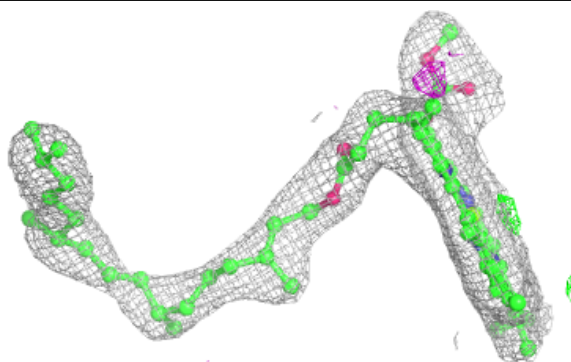


Electron density around CLA A 1118:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

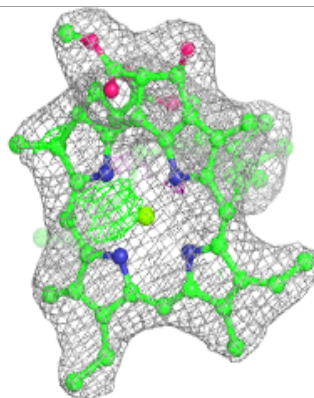
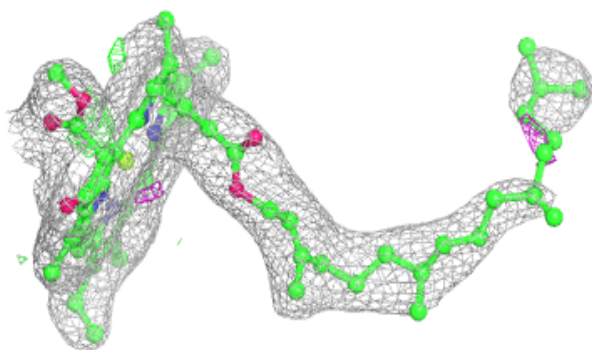
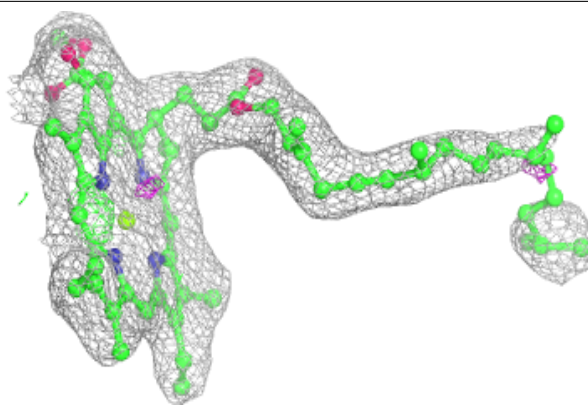
**Electron density around CLA b 1238:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

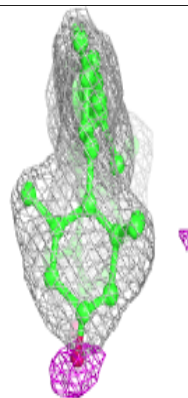
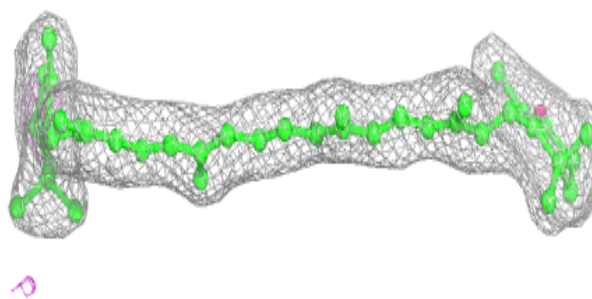
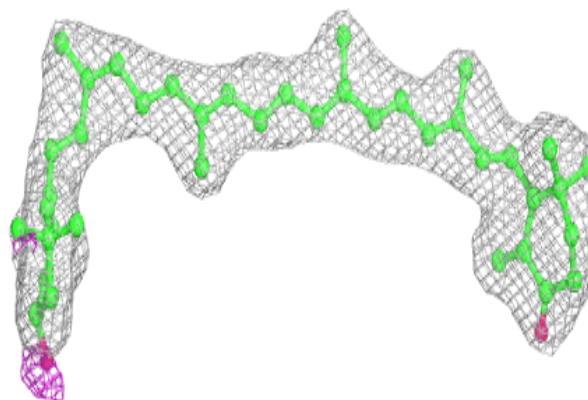


Electron density around CLA 0 1502:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

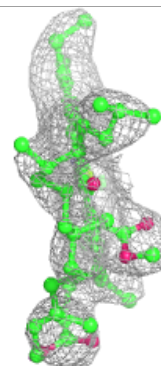
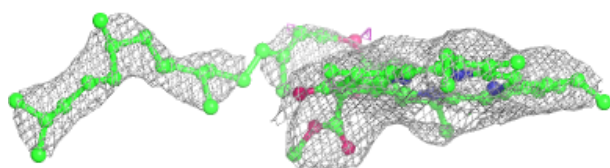
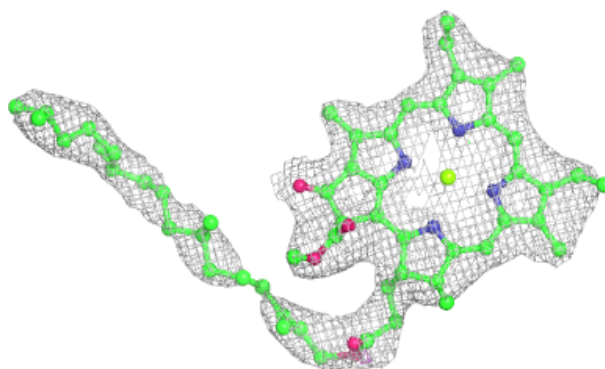
**Electron density around EQ3 I 4020:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

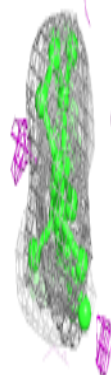
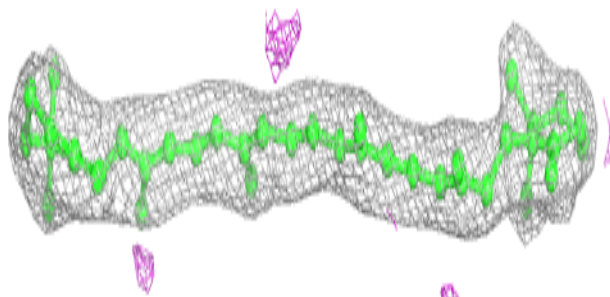
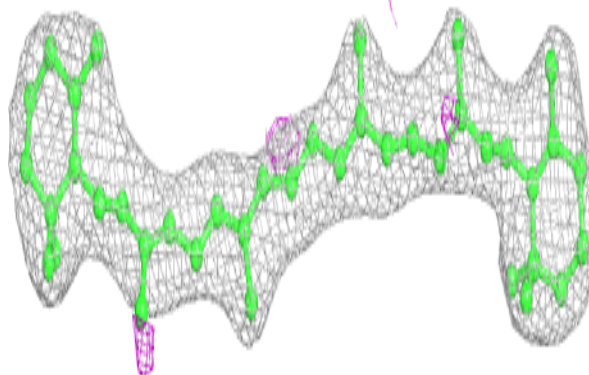


Electron density around CLA 0 1503:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

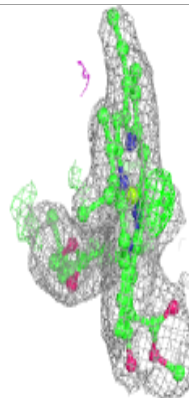
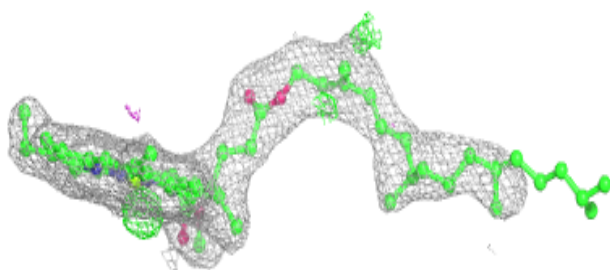
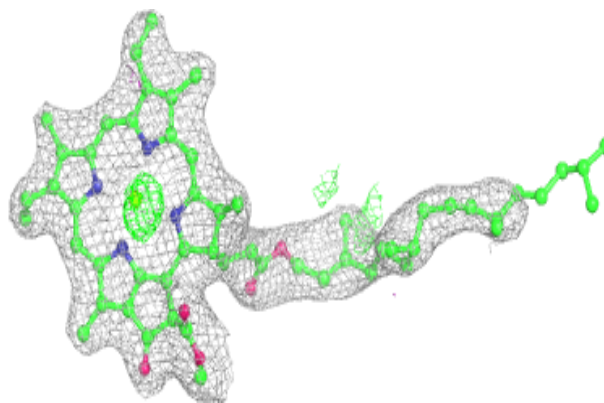
**Electron density around BCR L 4019:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

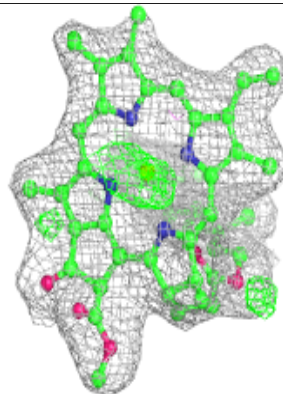
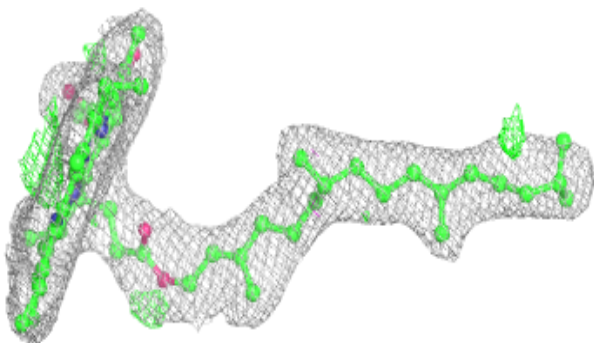
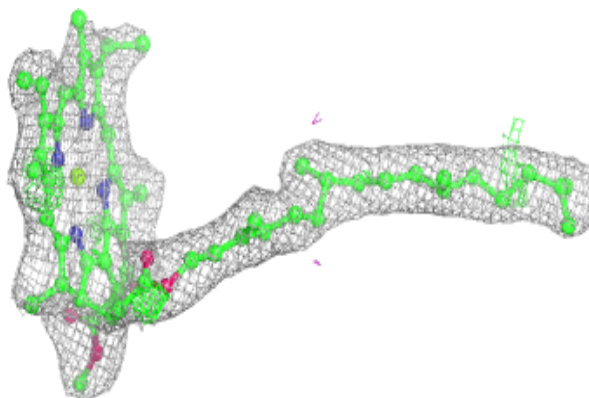


Electron density around CLA A 1124:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

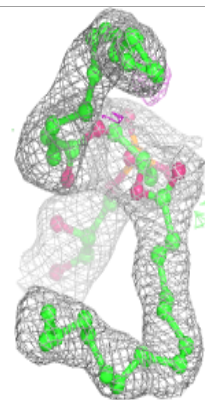
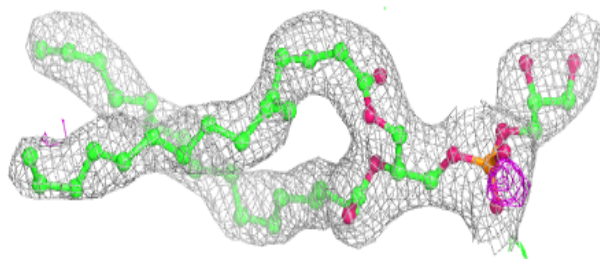
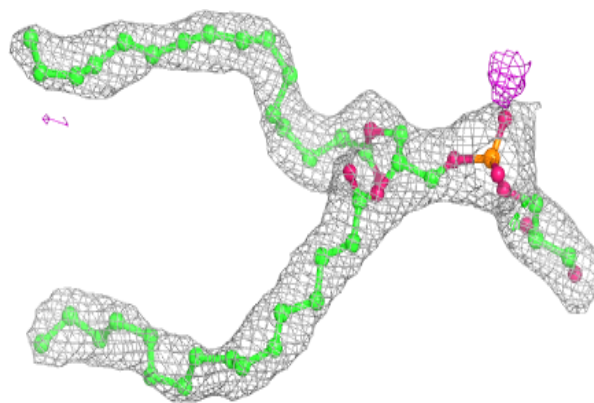
**Electron density around CLA b 1225:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

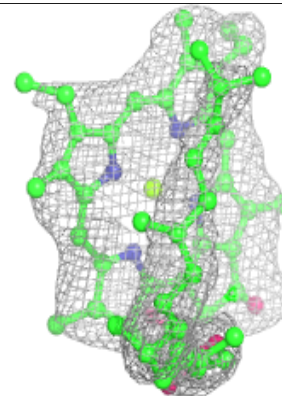
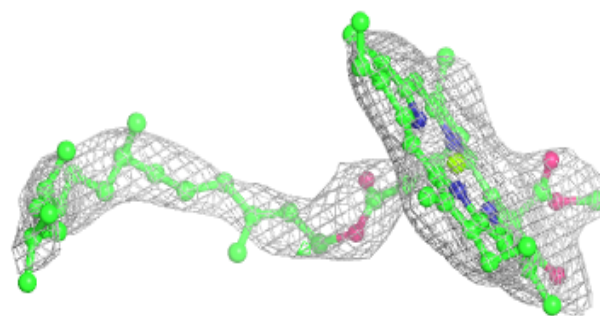
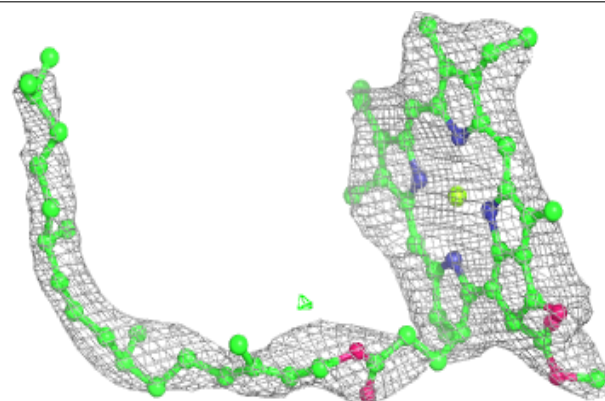


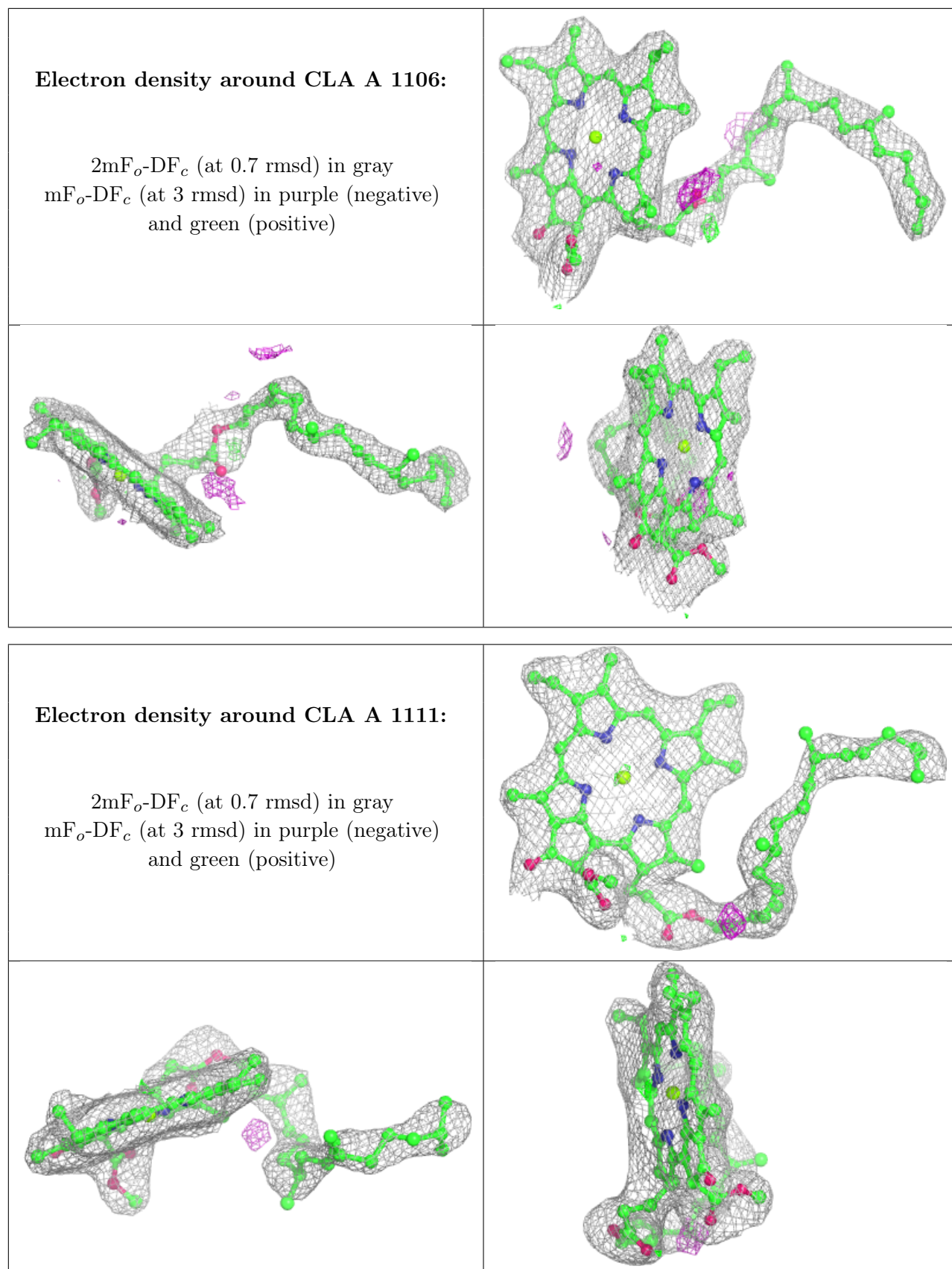
Electron density around LHG A 5001:

$2mF_o-DF_c$ (at 0.7 rnsd) in gray
 mF_o-DF_c (at 3 rnsd) in purple (negative)
and green (positive)

**Electron density around CLA a 1140:**

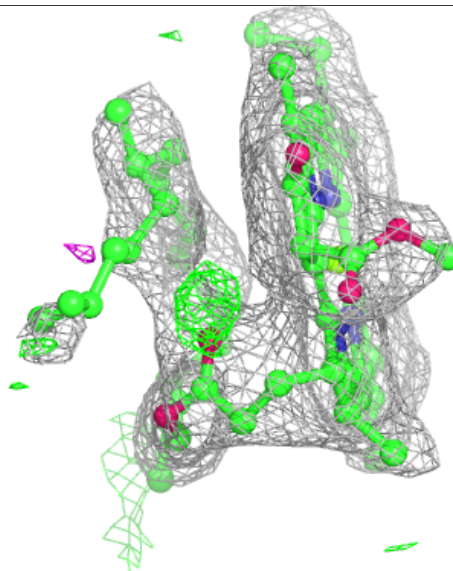
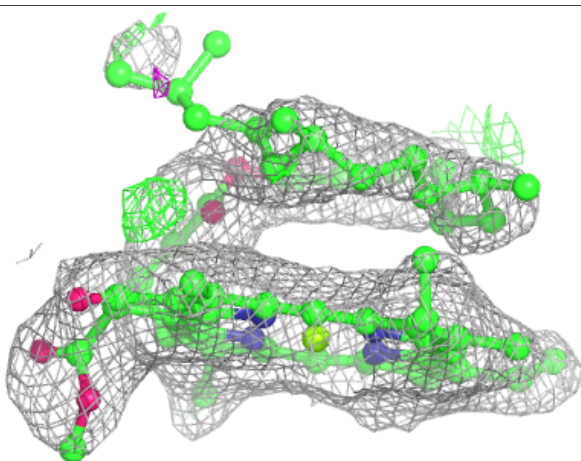
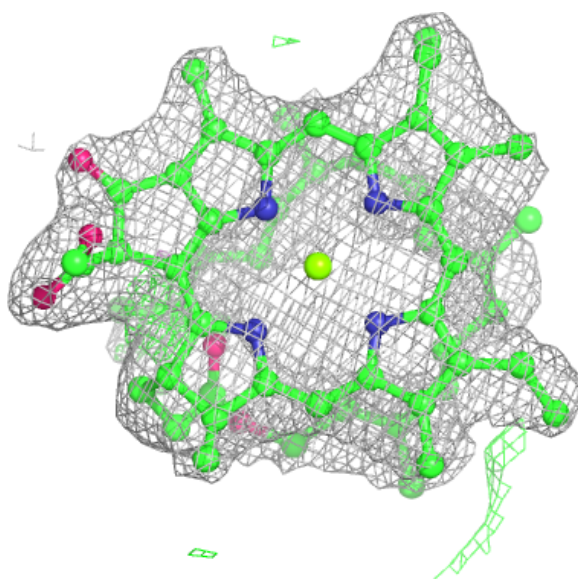
$2mF_o-DF_c$ (at 0.7 rnsd) in gray
 mF_o-DF_c (at 3 rnsd) in purple (negative)
and green (positive)





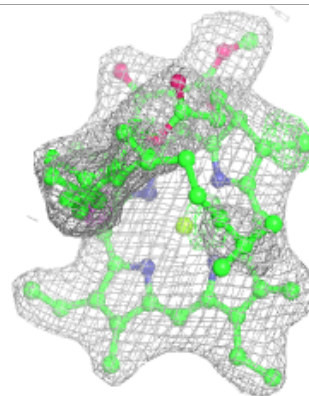
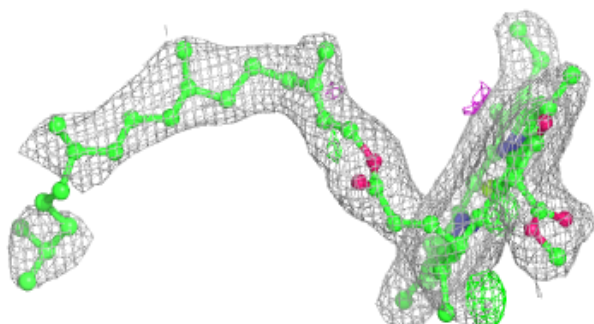
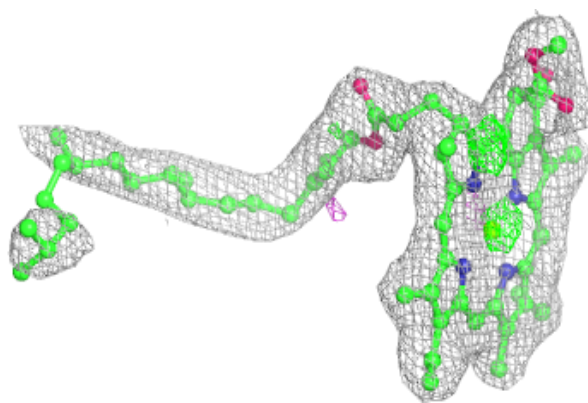
Electron density around CLA L 1501:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

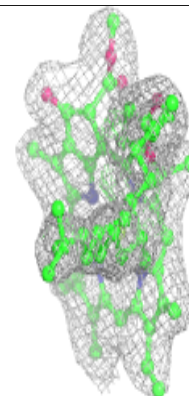
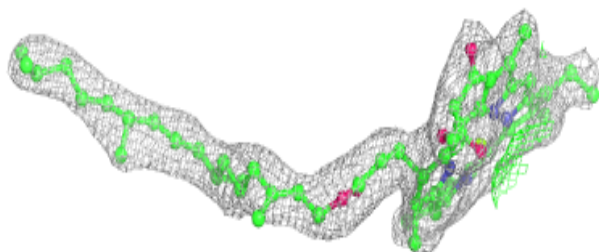
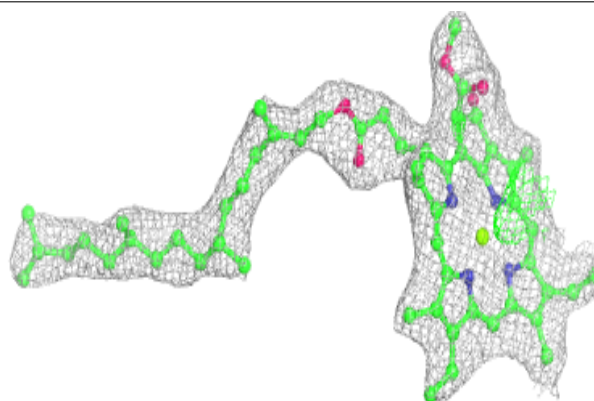


Electron density around CLA L 1502:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

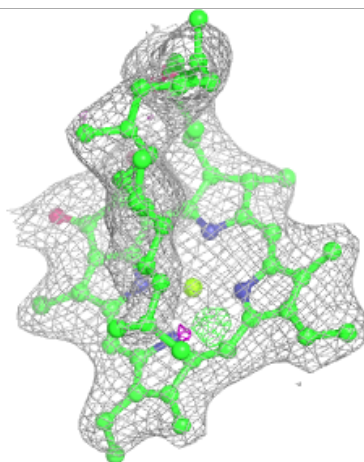
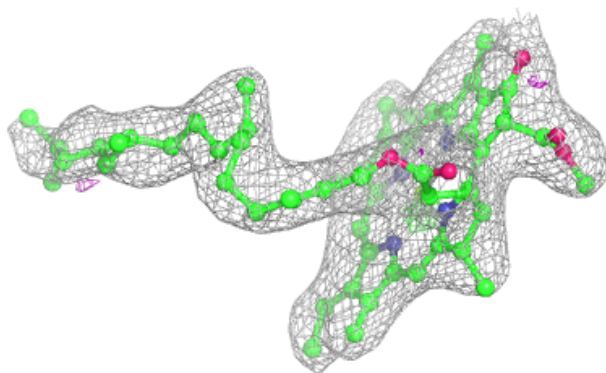
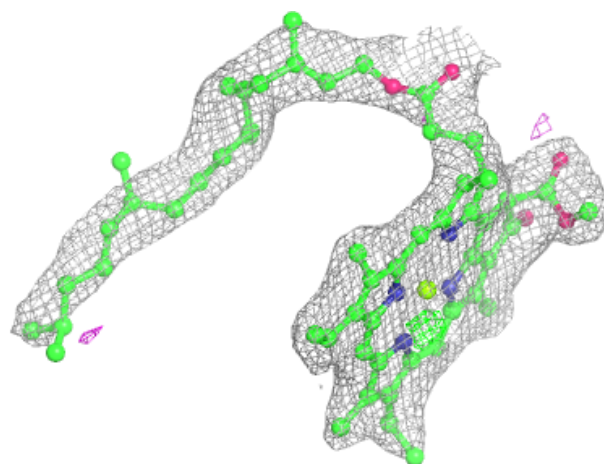
**Electron density around CLA b 1022:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



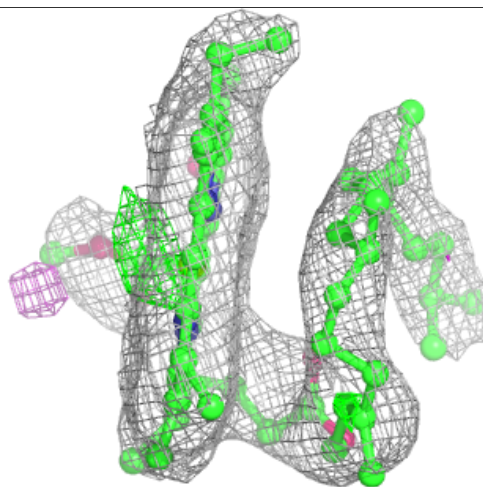
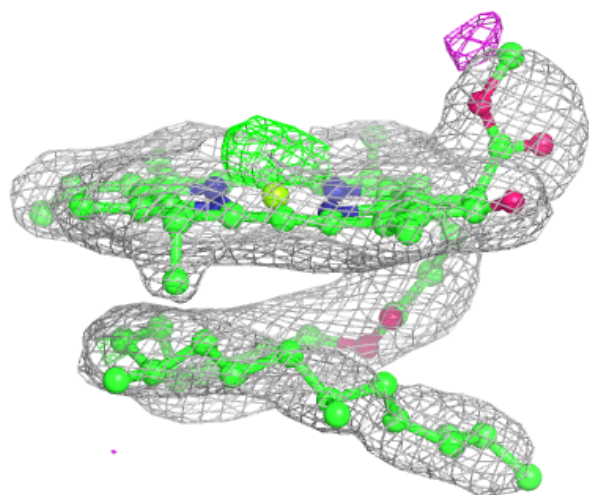
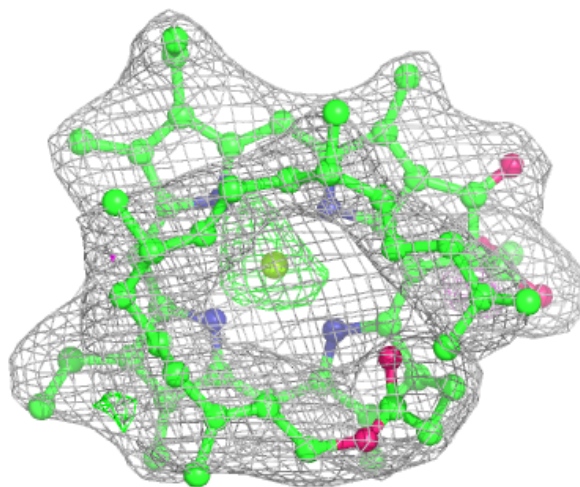
Electron density around CLA A 1102:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



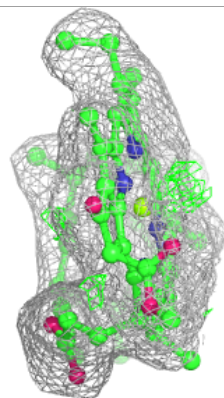
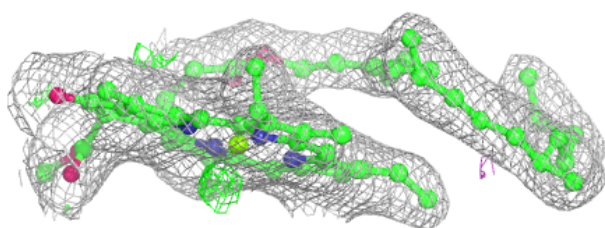
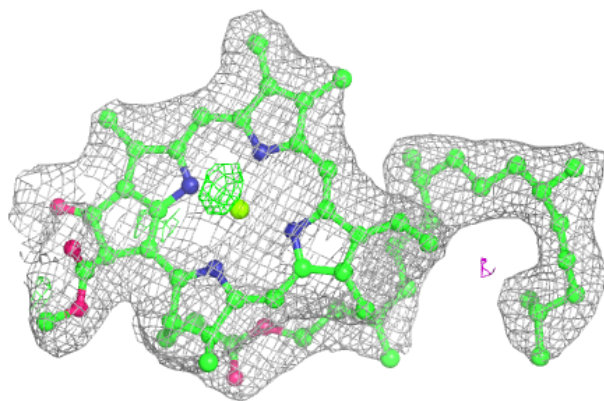
Electron density around CLA 0 1501:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

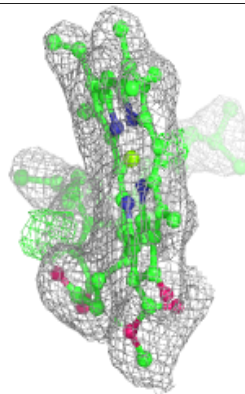
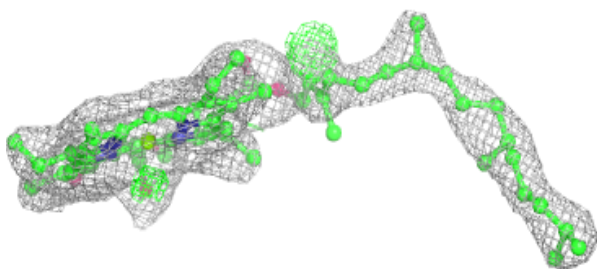
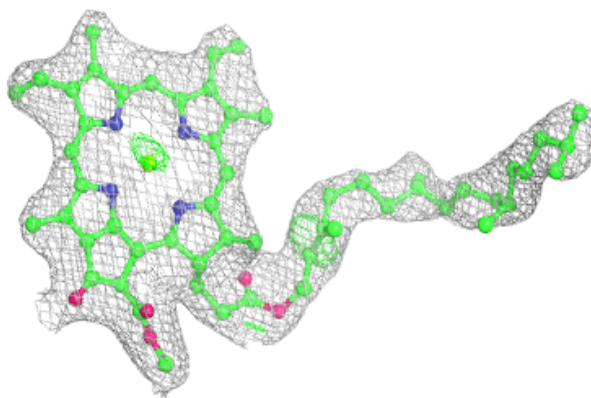


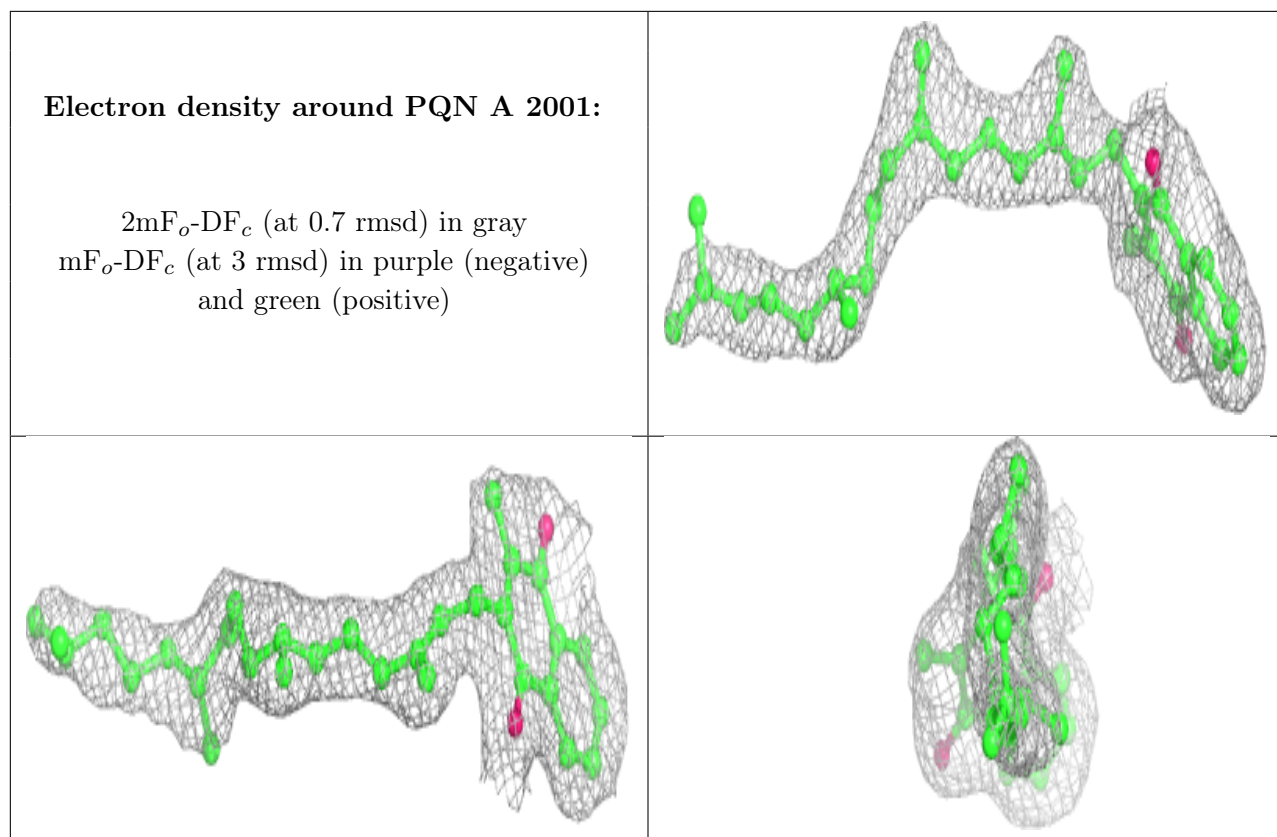
Electron density around CLA A 1117:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around CLA b 1023:**

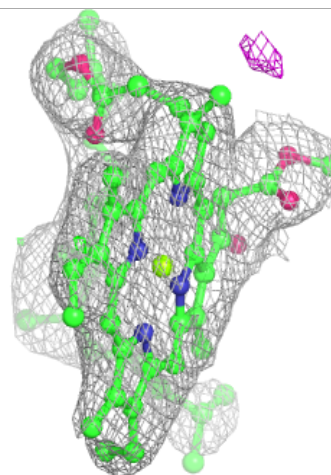
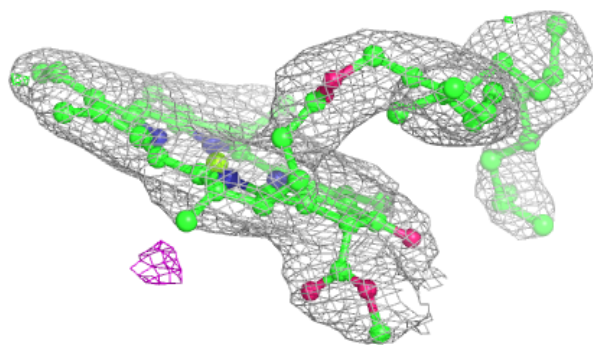
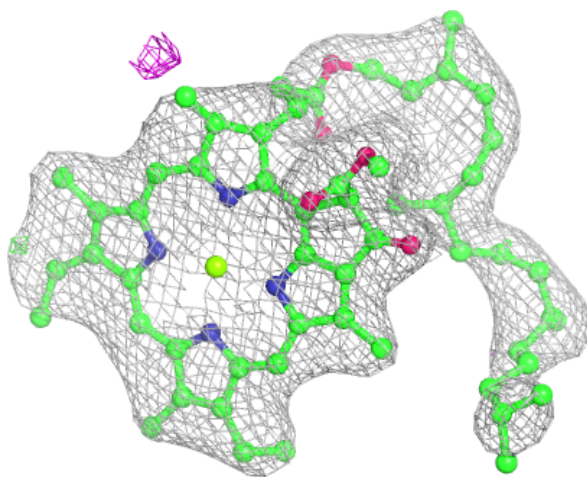
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





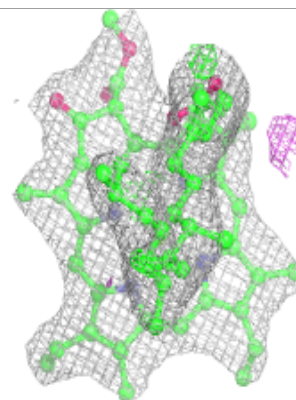
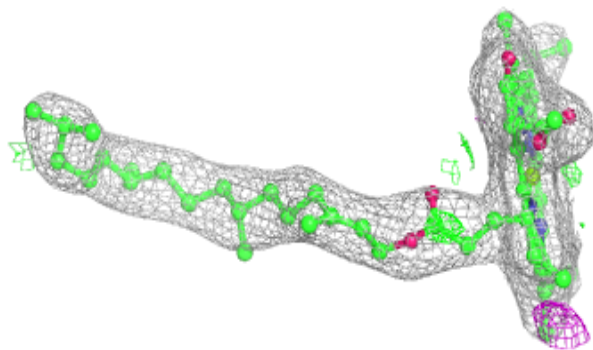
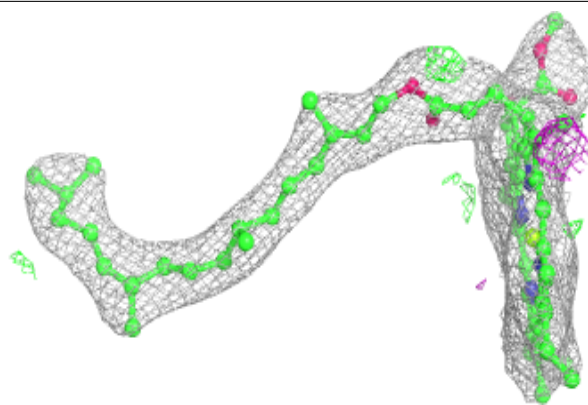
Electron density around CLA B 1229:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

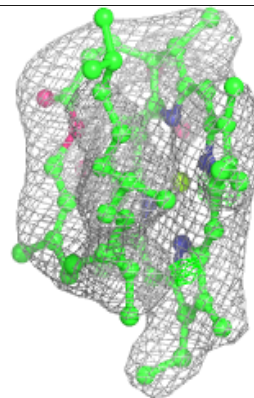
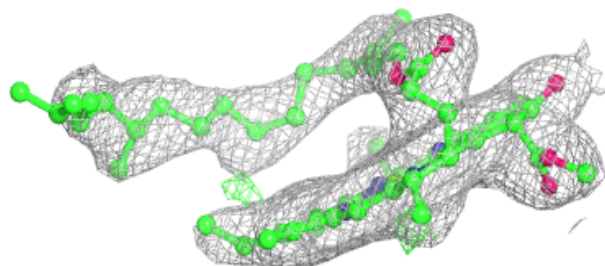
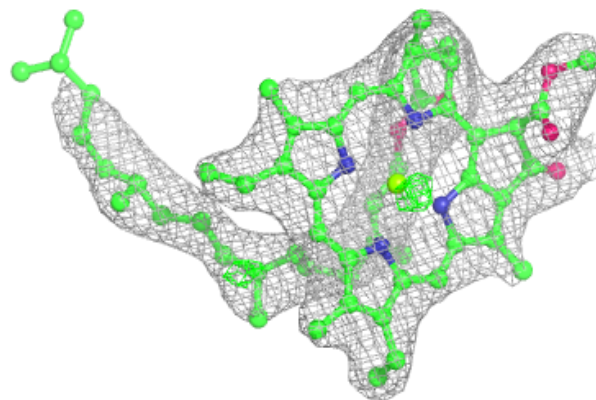


Electron density around CLA b 1239:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

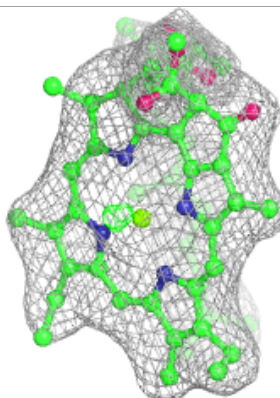
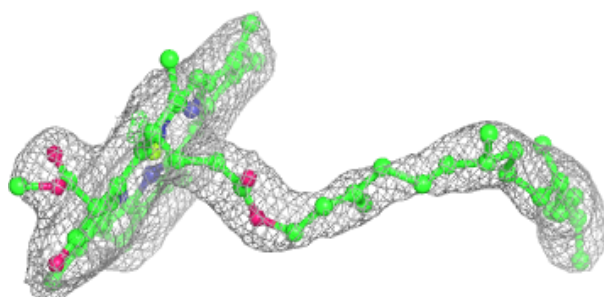
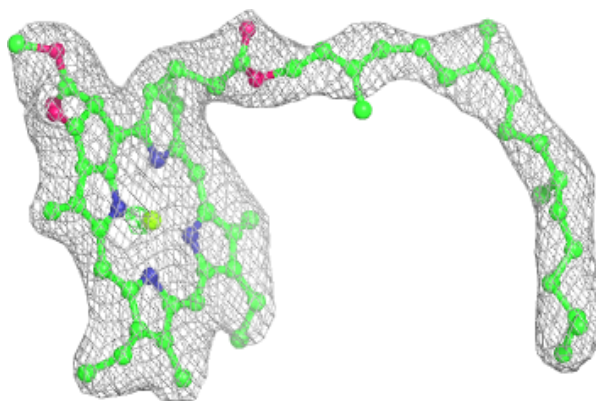
**Electron density around CLA b 1204:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

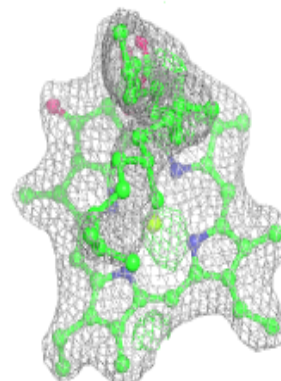
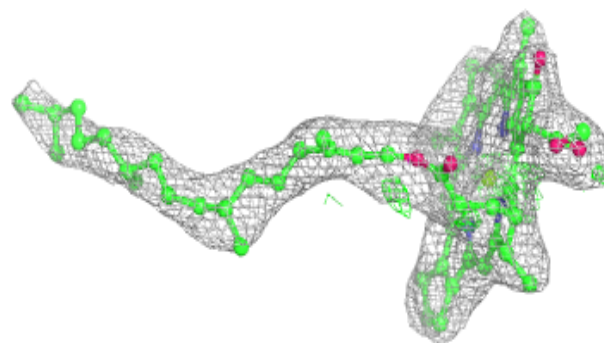
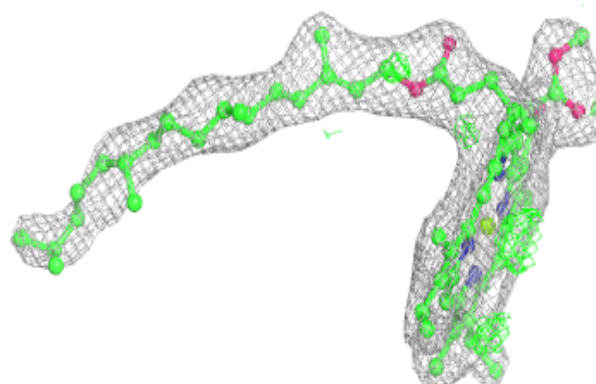


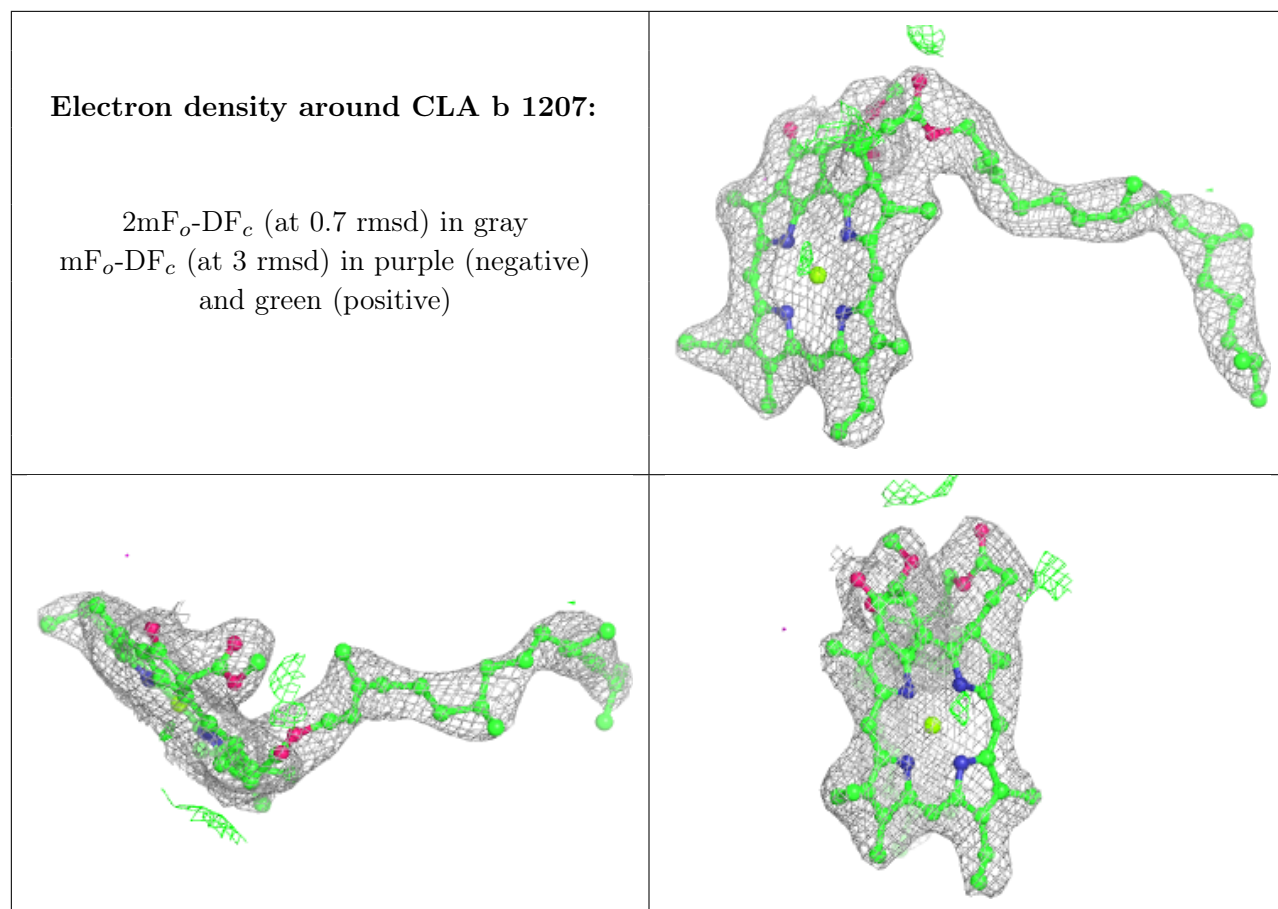
Electron density around CLA A 1140:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around CLA b 1201:**

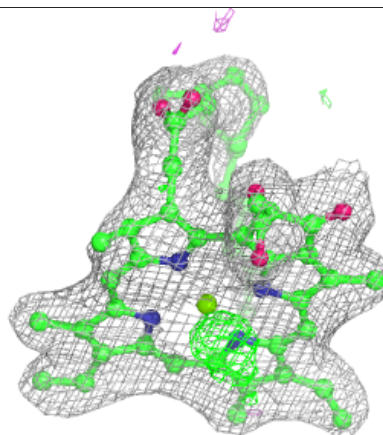
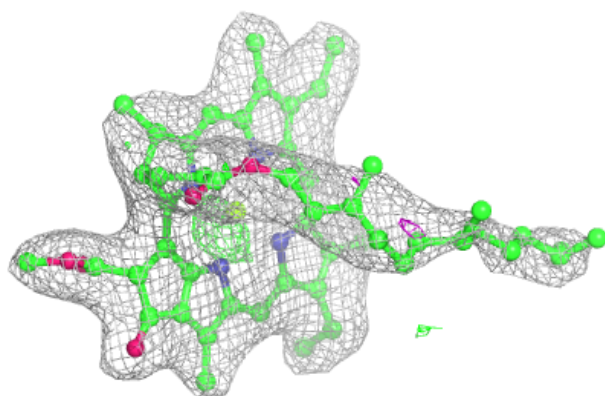
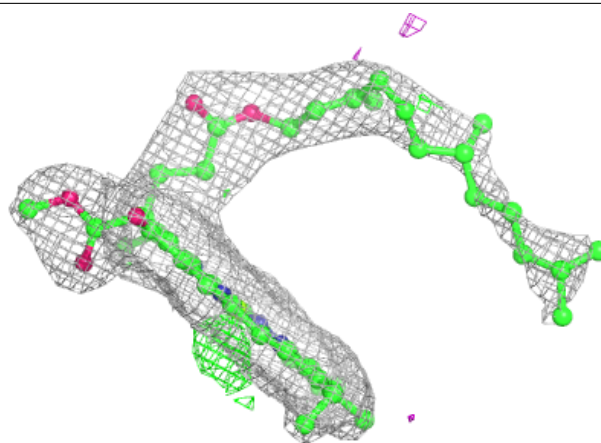
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



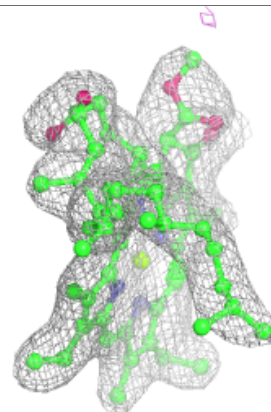
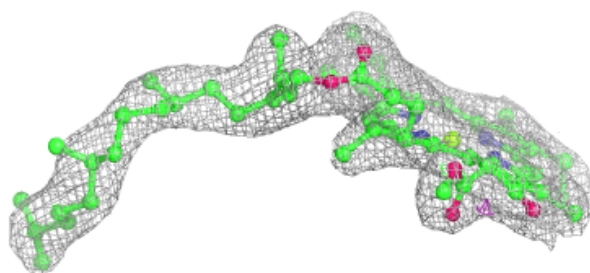
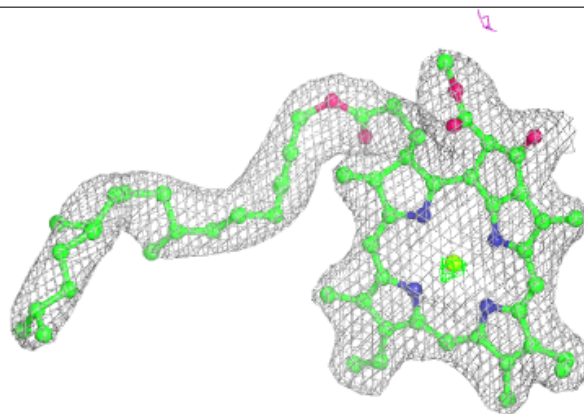


Electron density around CLA A 1130:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

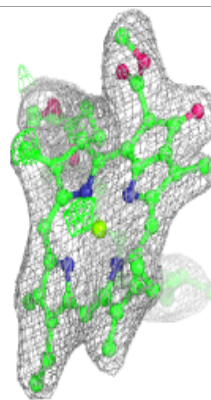
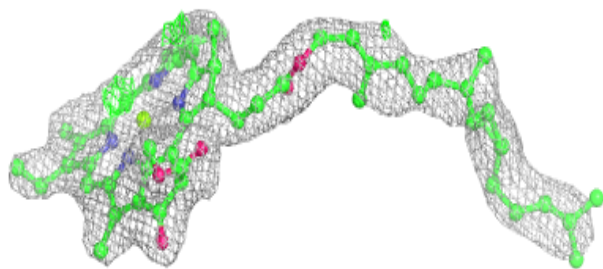
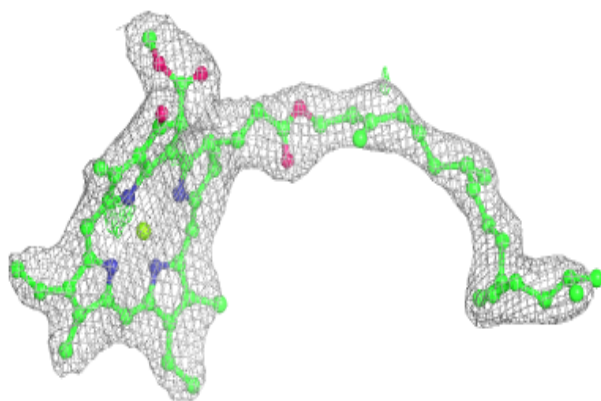
**Electron density around CLA A 1013:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

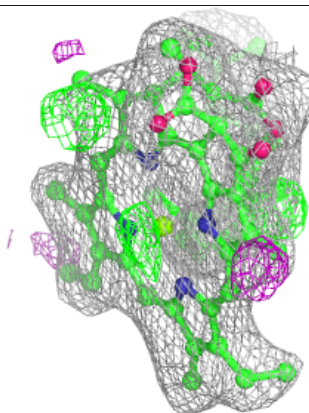
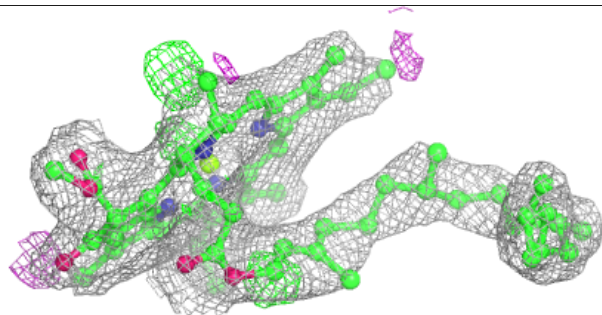
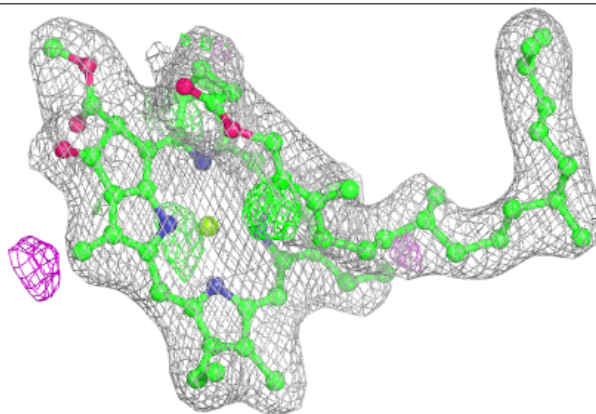


Electron density around CLA A 1012:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

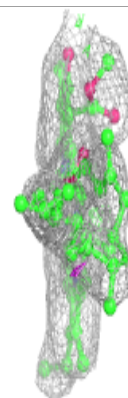
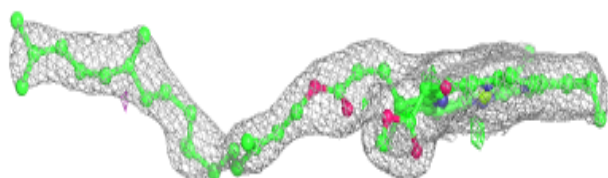
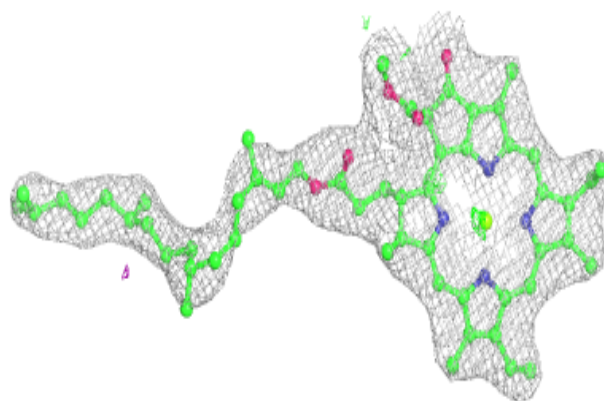
**Electron density around CLA B 1237:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

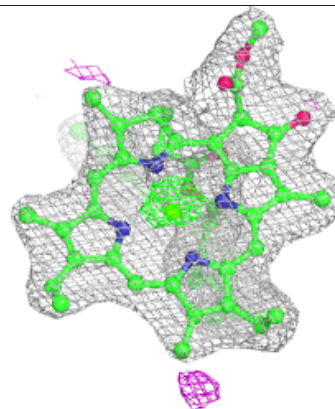
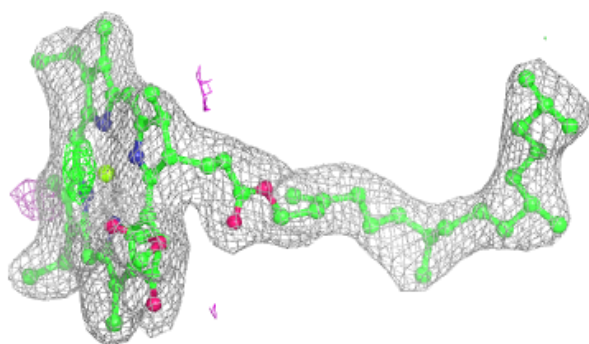
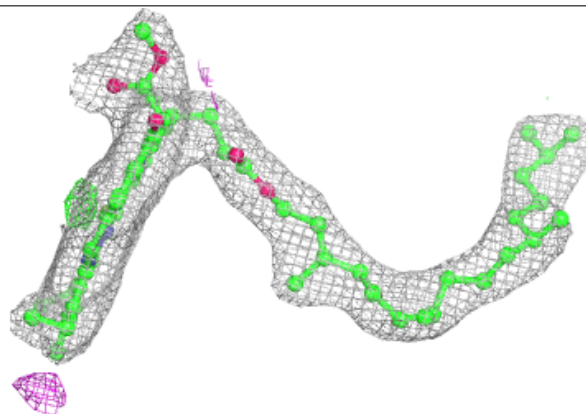


Electron density around CLA 1 1131:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

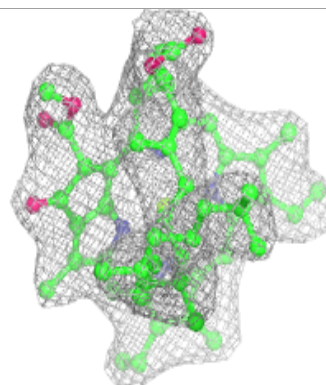
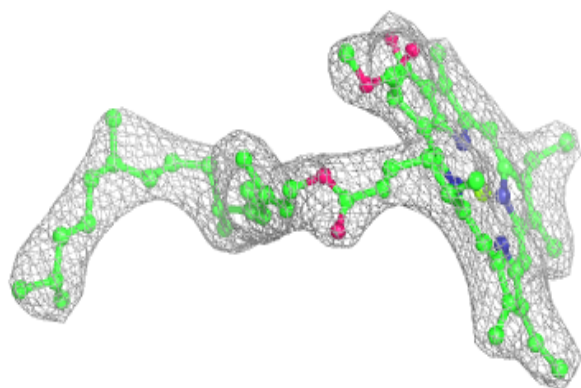
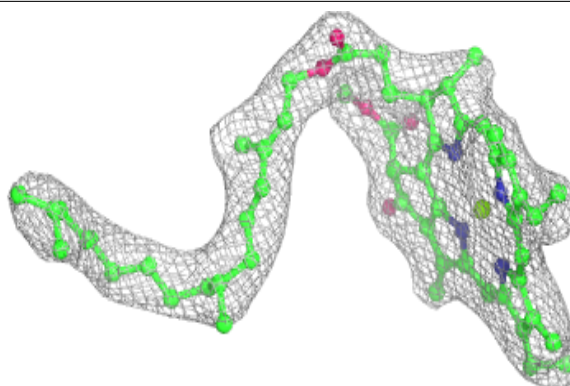
**Electron density around CLA B 1238:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

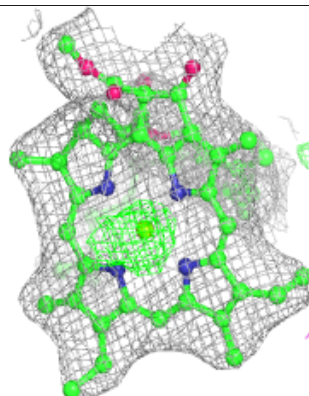
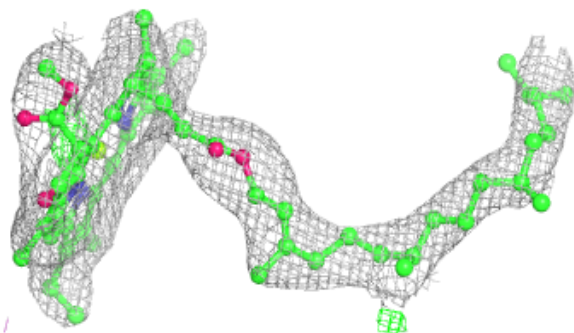
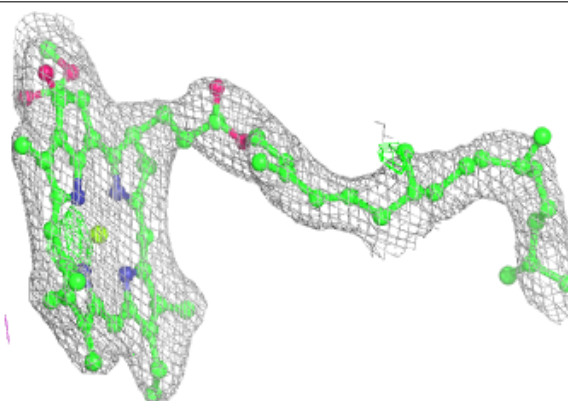


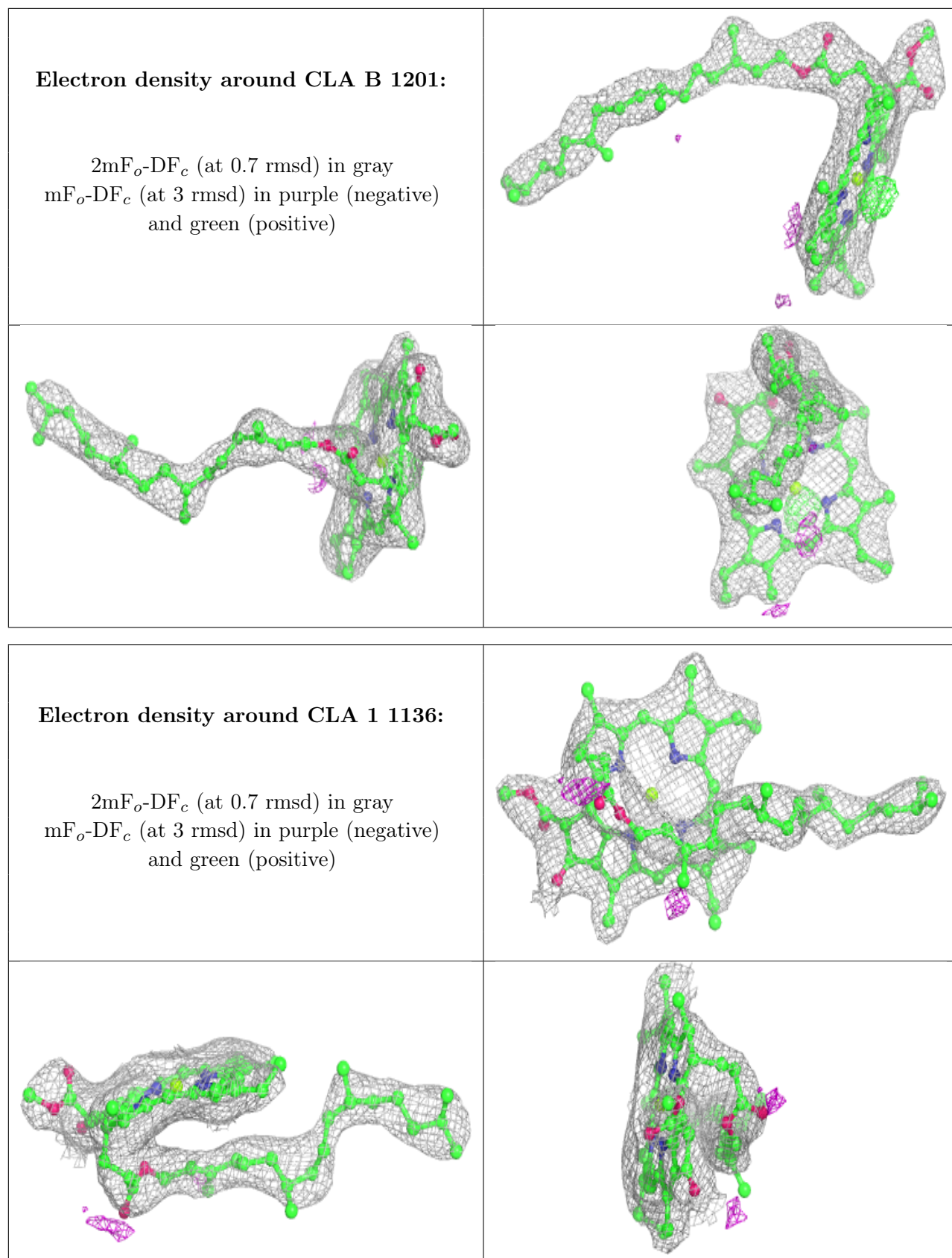
Electron density around CLA B 1021:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around CLA I 1502:**

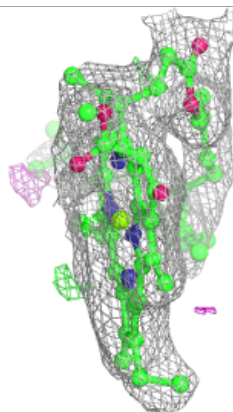
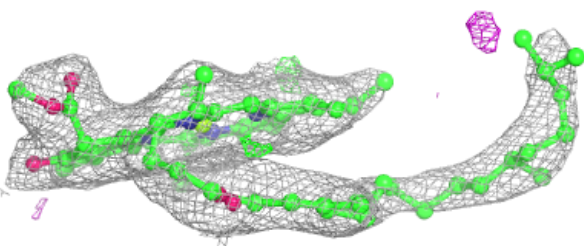
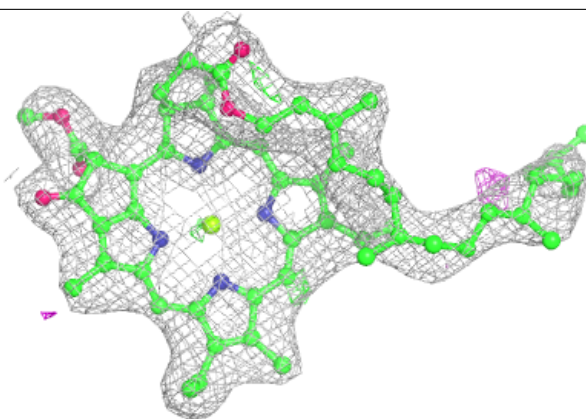
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



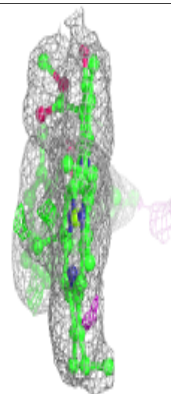
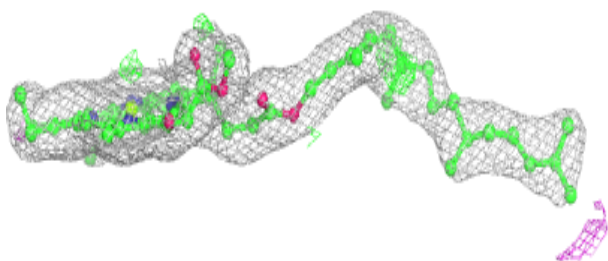
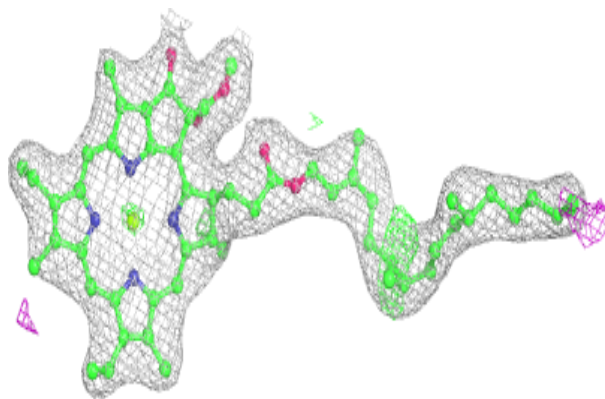


Electron density around CLA b 1215:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

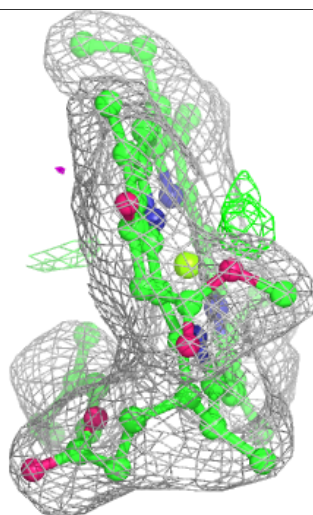
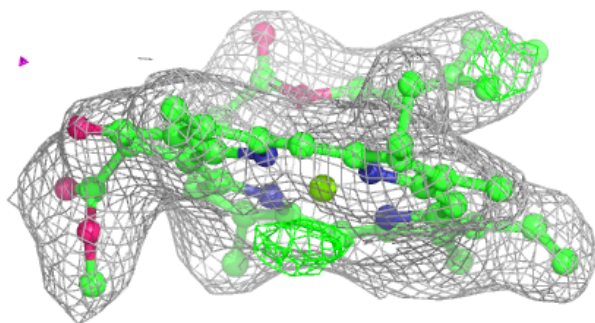
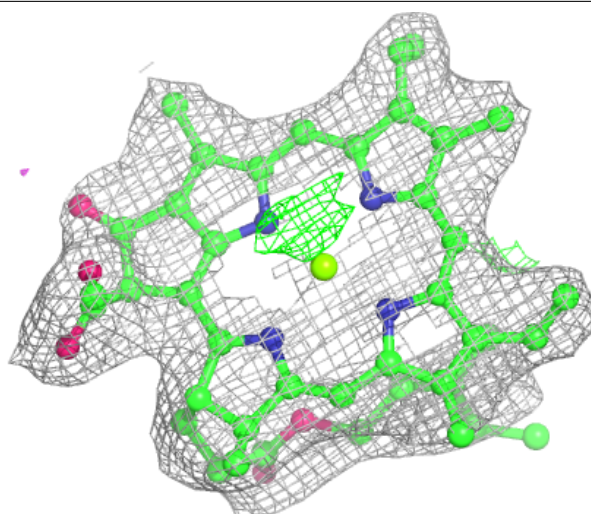
**Electron density around CLA A 1131:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



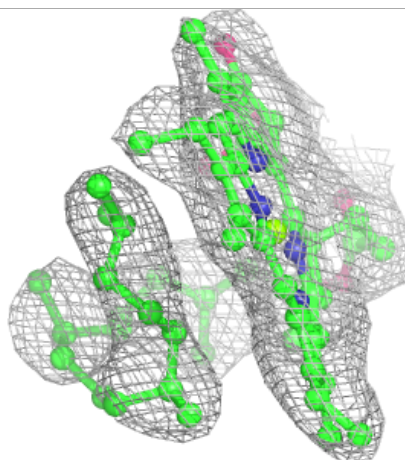
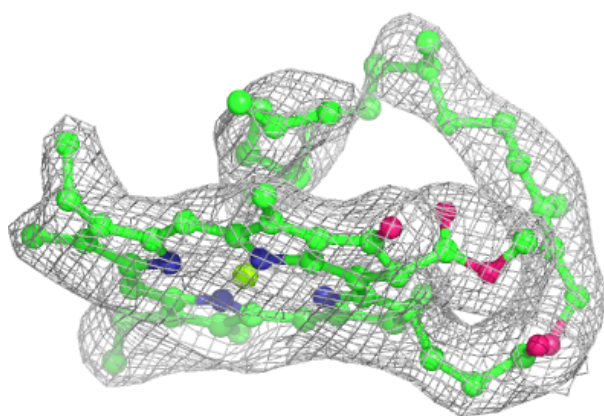
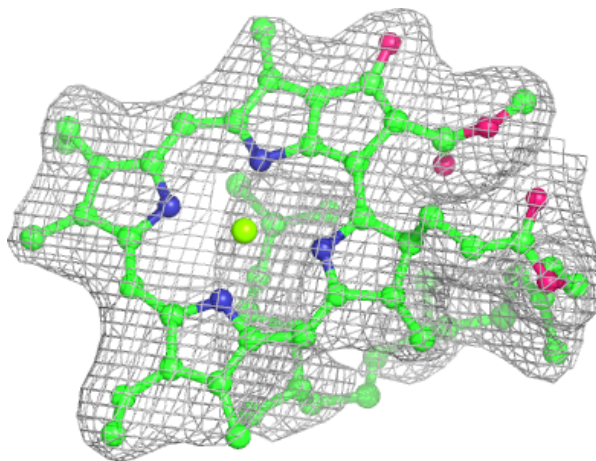
Electron density around CLA b 1217:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



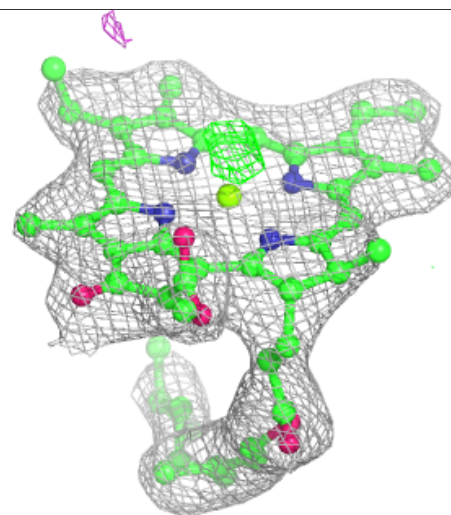
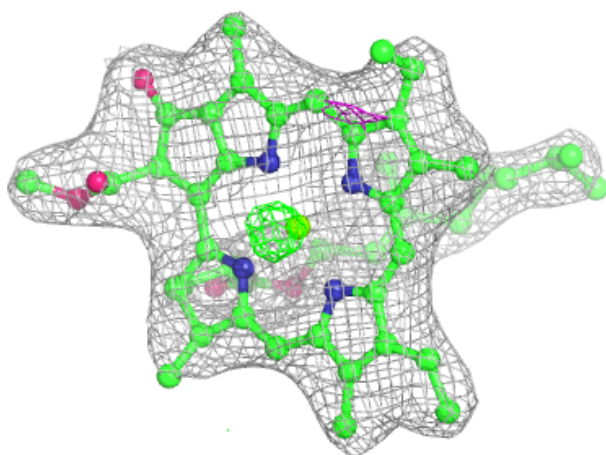
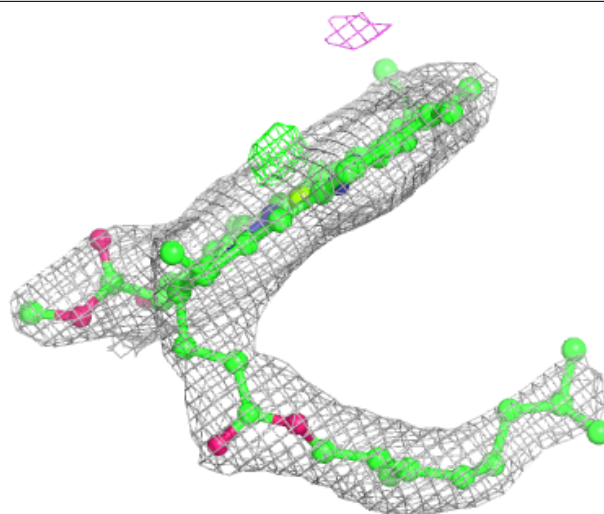
Electron density around CLA B 1203:

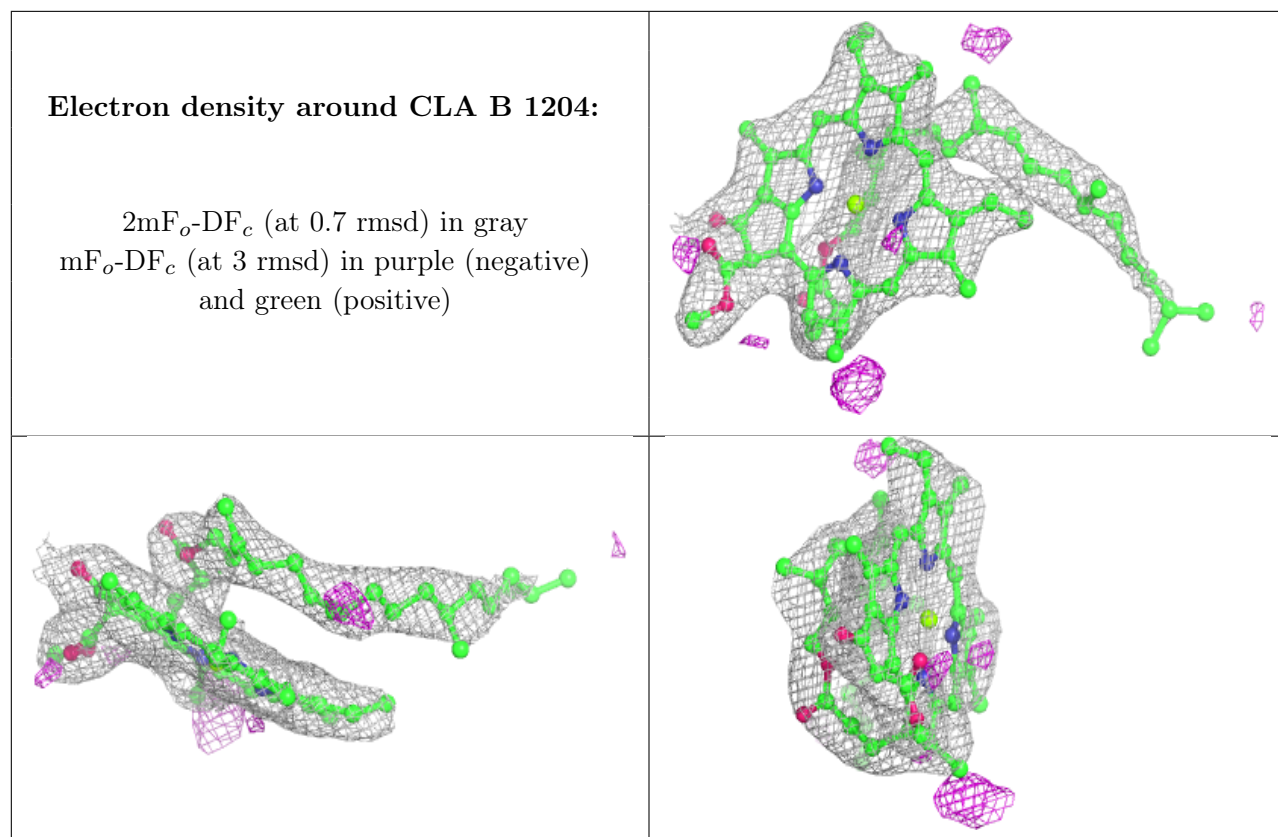
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA 1 1130:

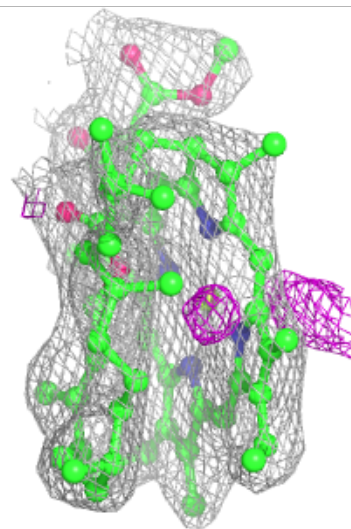
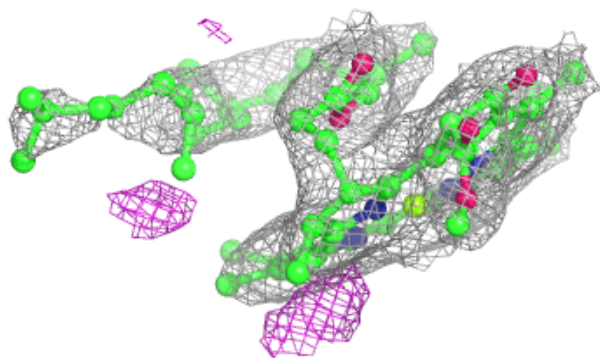
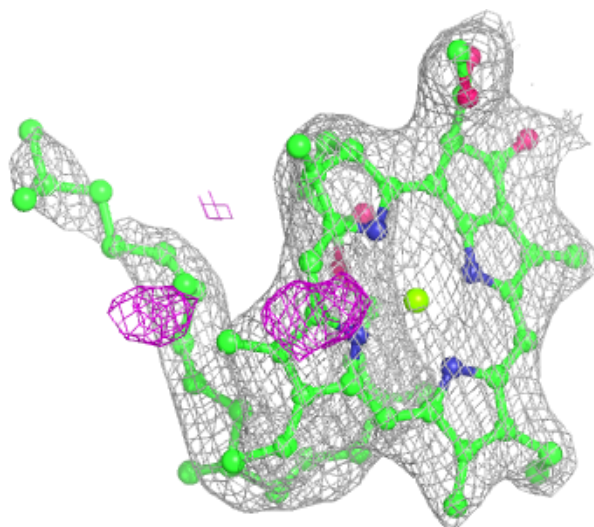
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





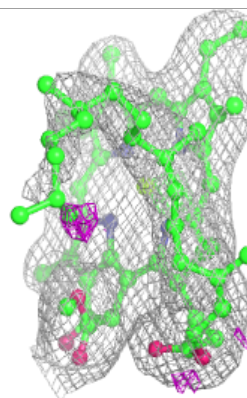
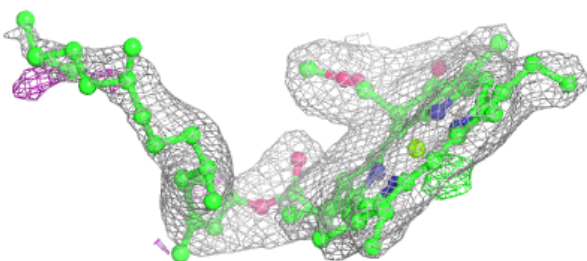
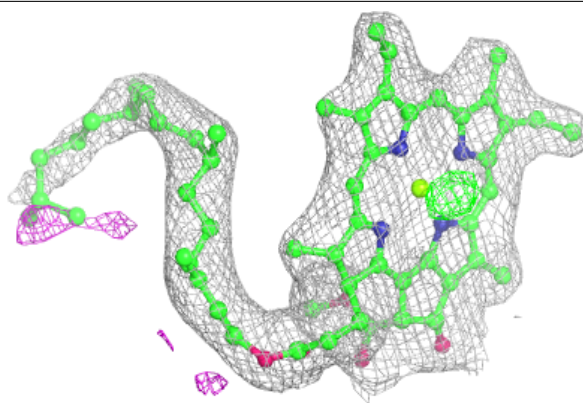
Electron density around CLA B 1205:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

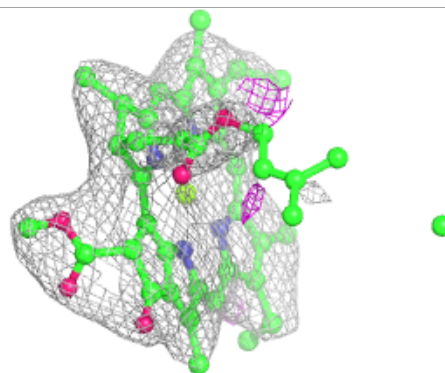
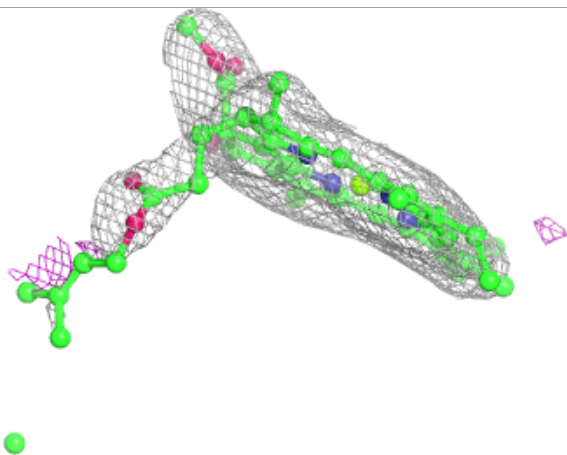
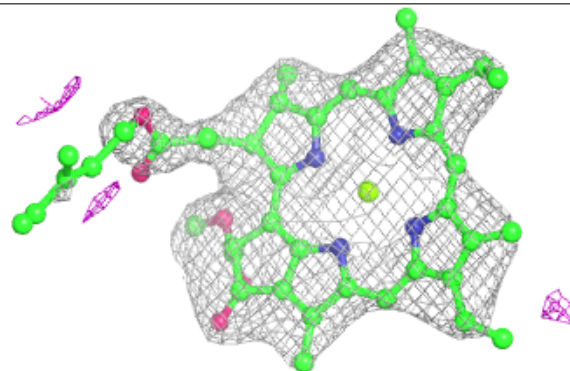


Electron density around CLA b 1221:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

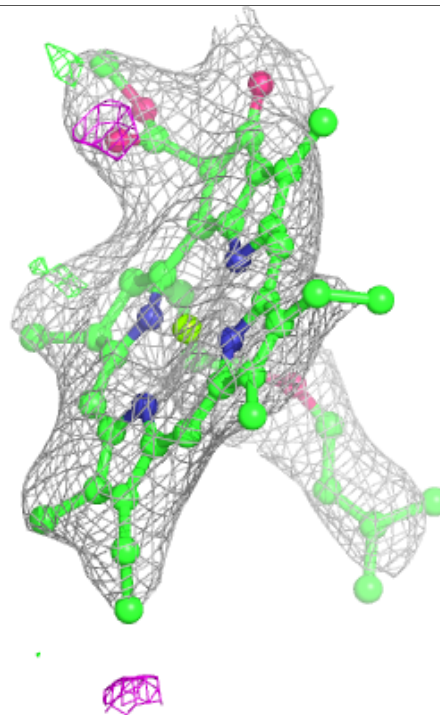
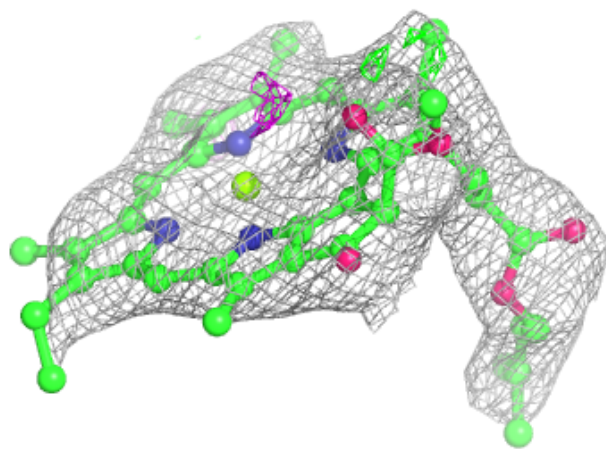
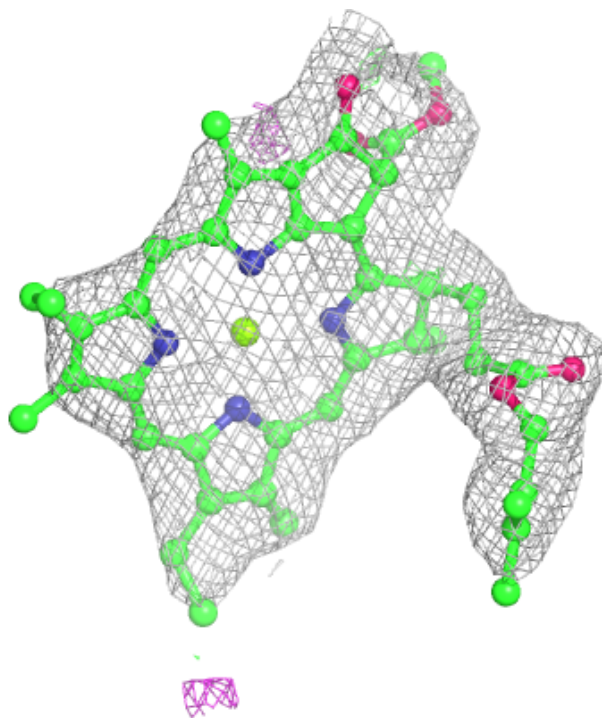
**Electron density around CLA a 1137:**

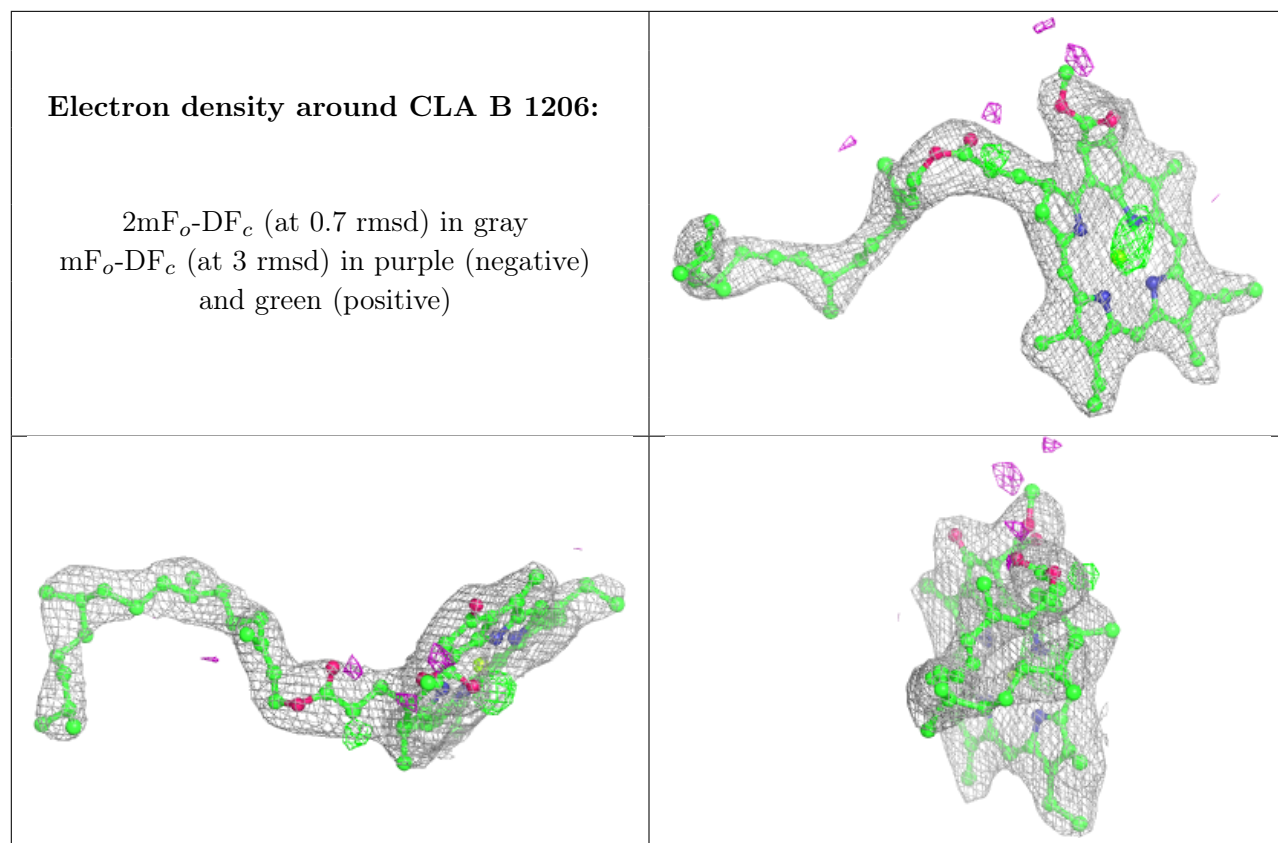
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA 1 1129:

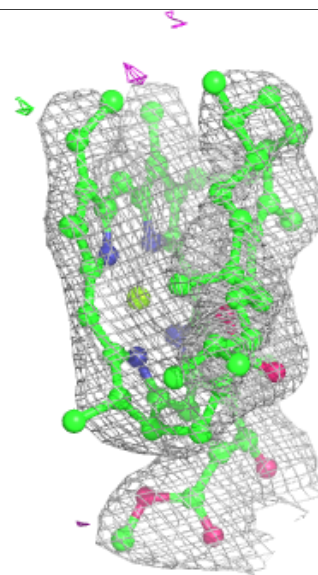
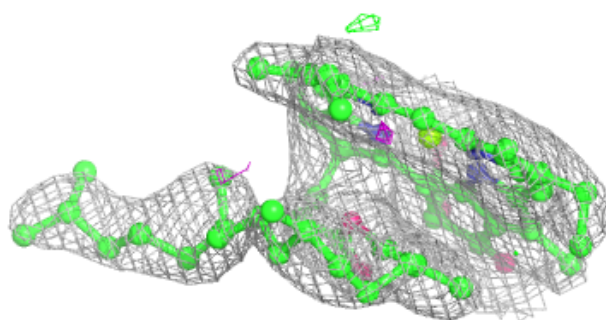
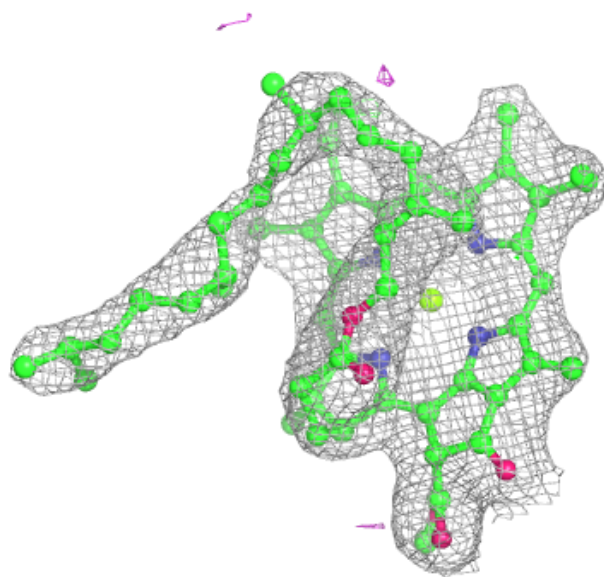
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





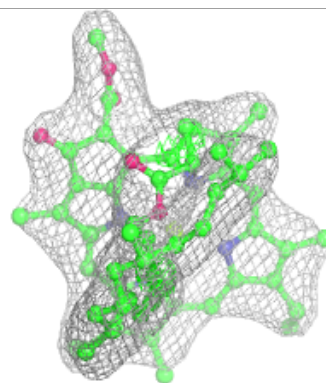
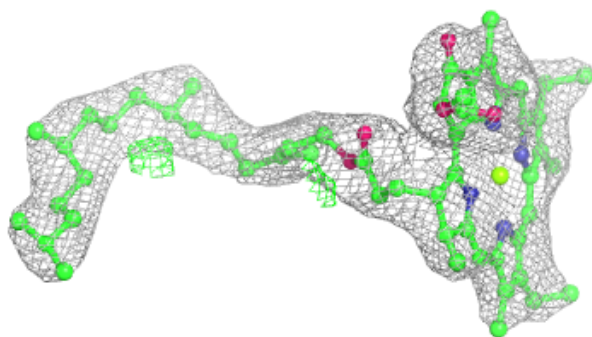
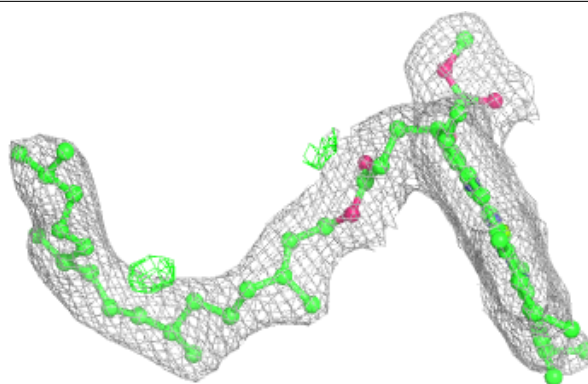
Electron density around CLA b 1205:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

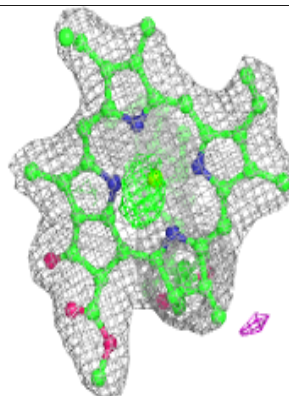
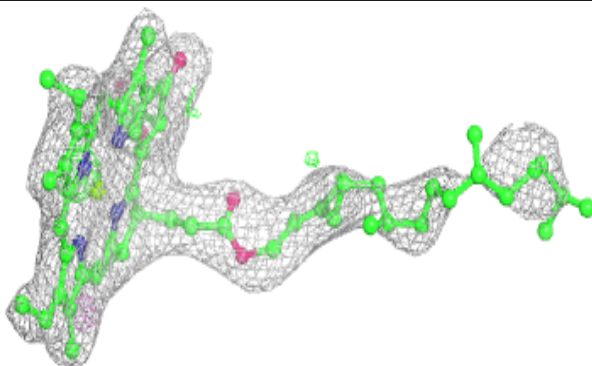
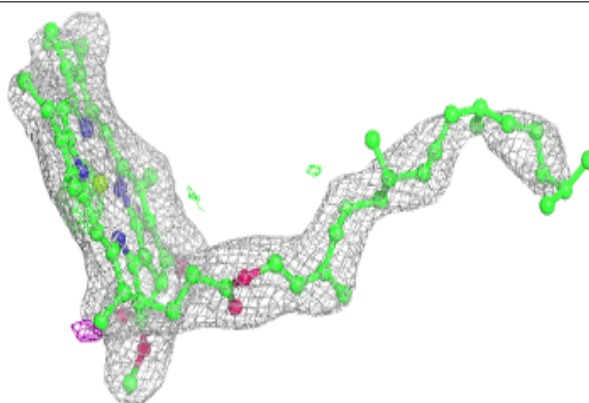


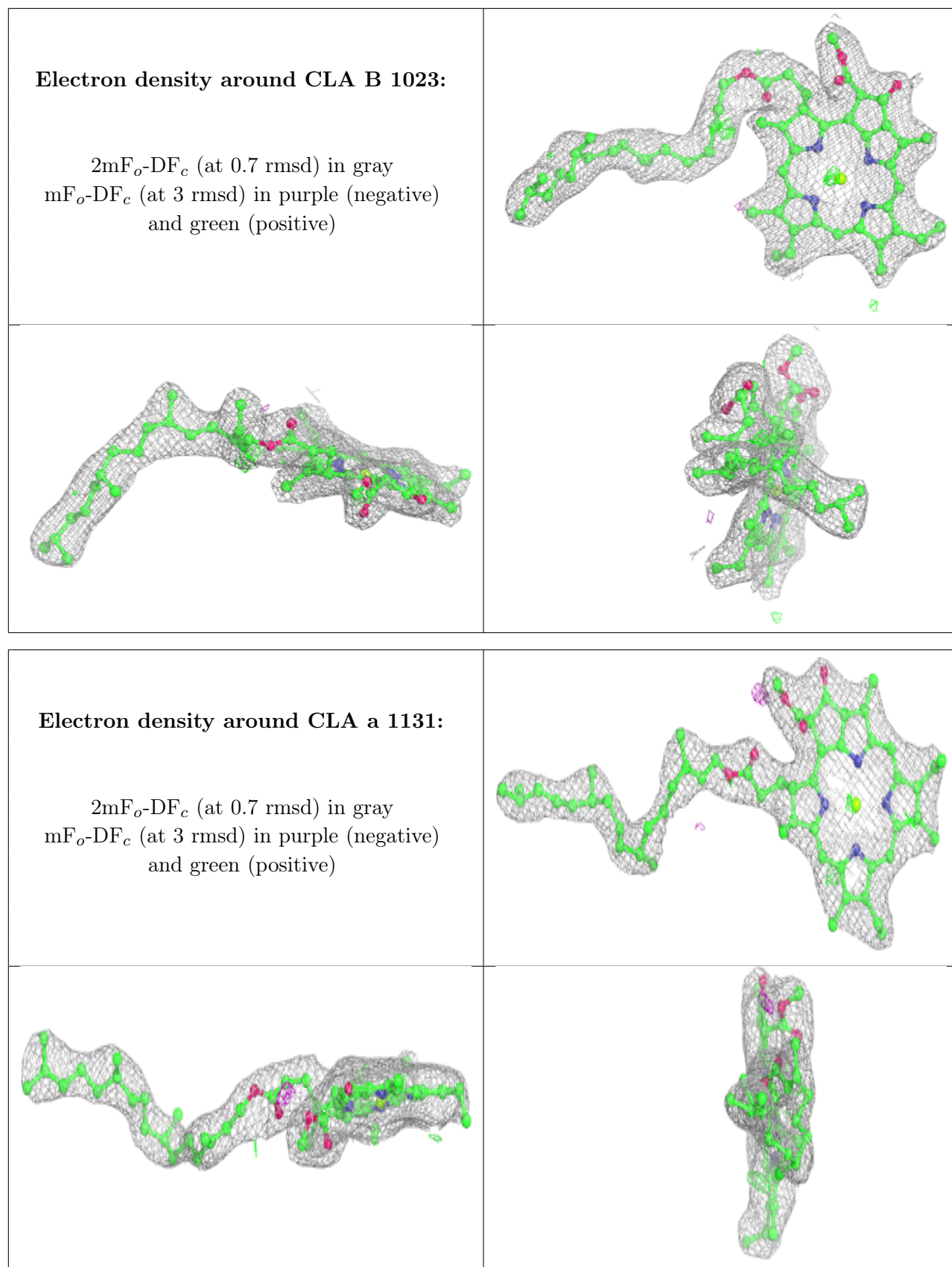
Electron density around CLA 2 1238:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around CLA A 1137:**

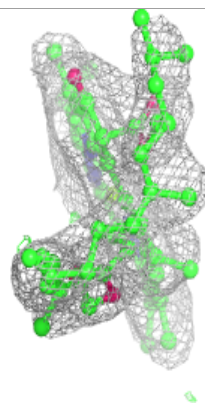
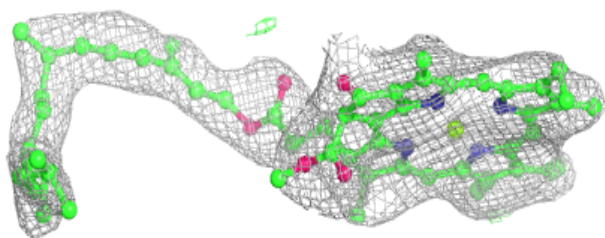
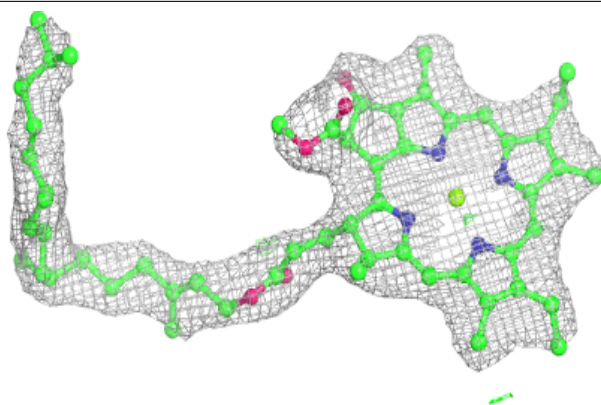
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



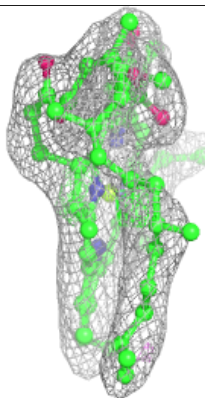
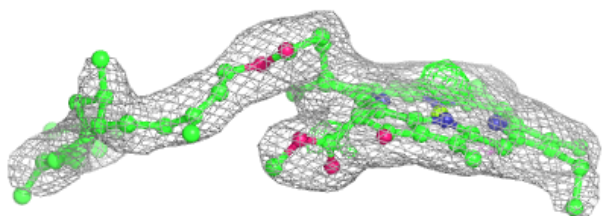
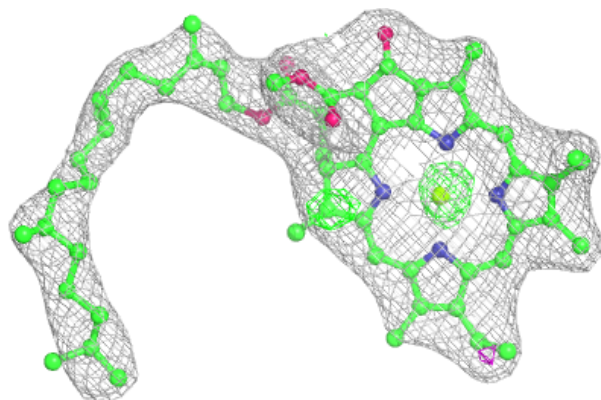


Electron density around CLA b 1223:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

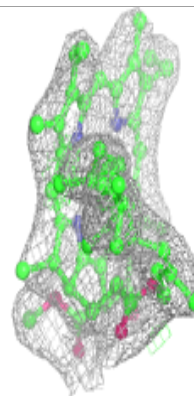
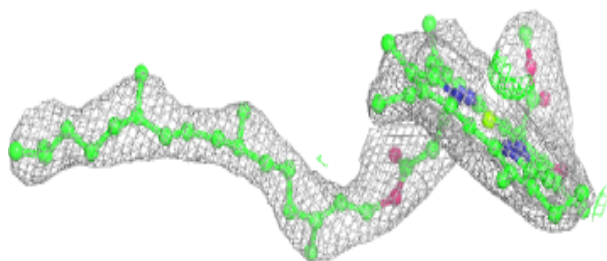
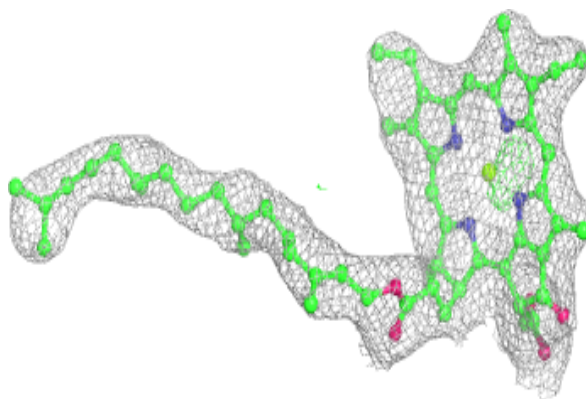
**Electron density around CLA A 1101:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

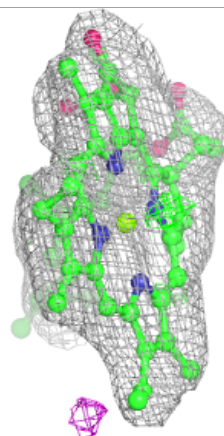
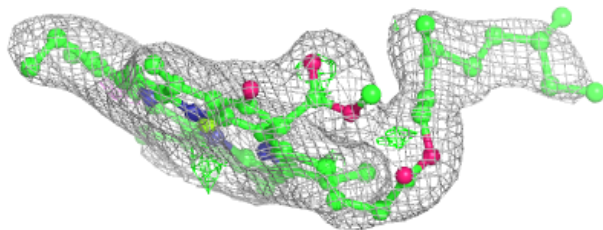
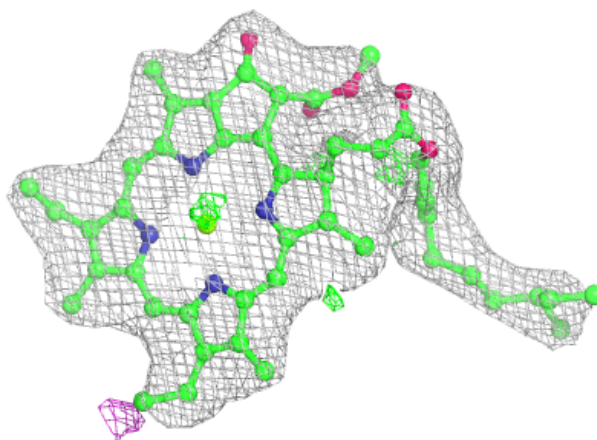


Electron density around CLA a 1132:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

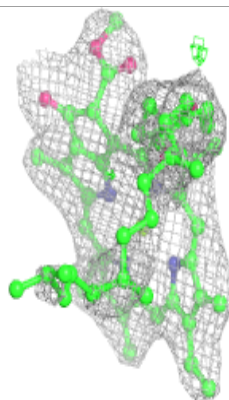
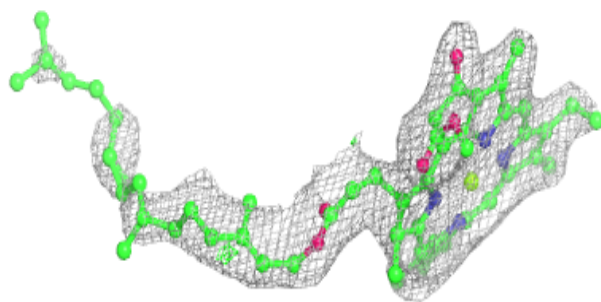
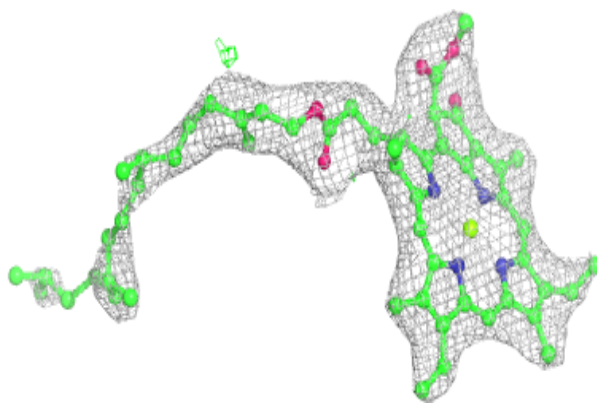
**Electron density around CLA 2 1207:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

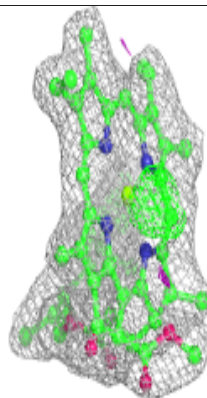
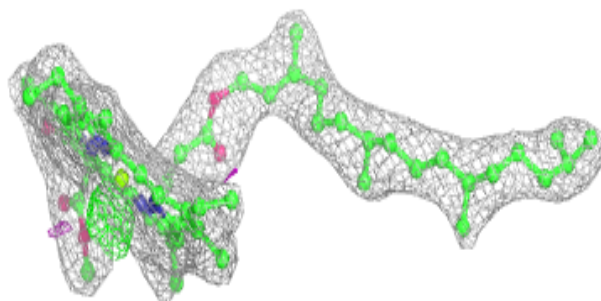
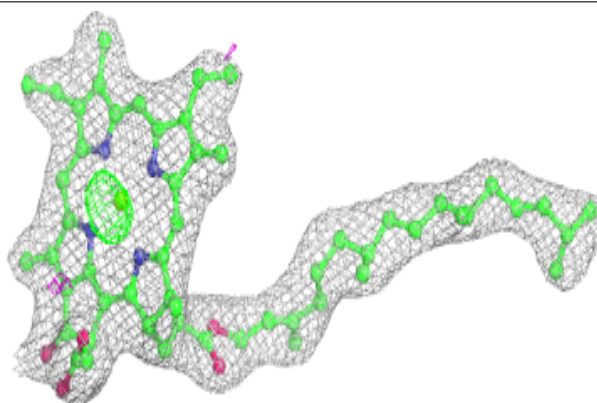


Electron density around CLA a 1012:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

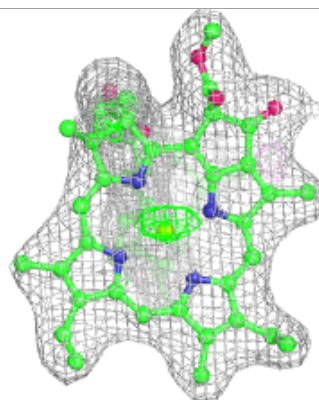
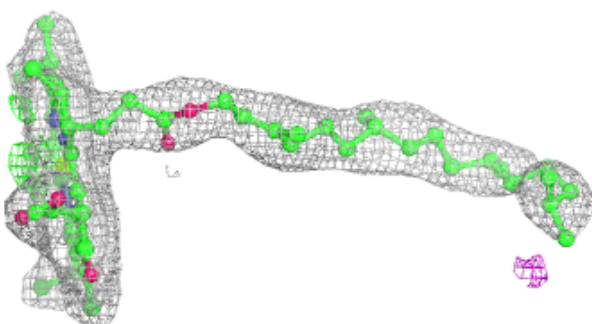
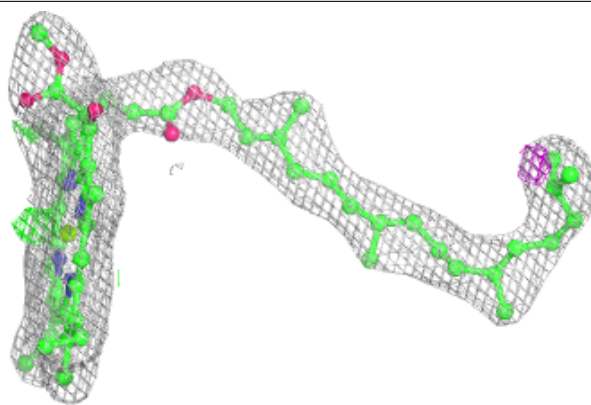
**Electron density around CLA A 1132:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

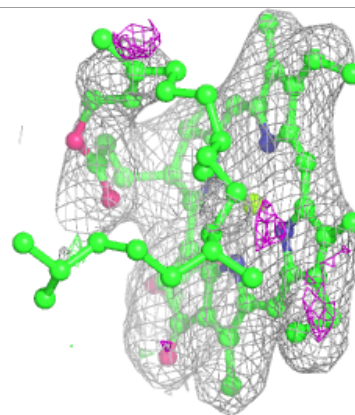
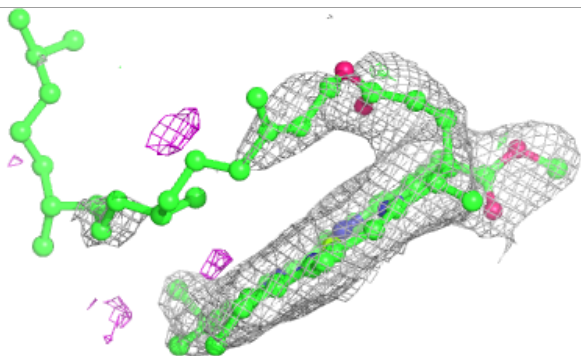
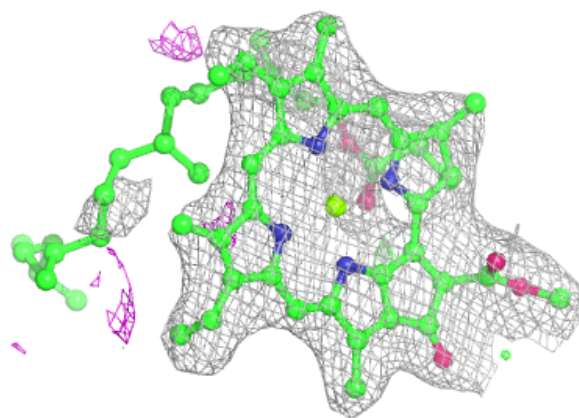


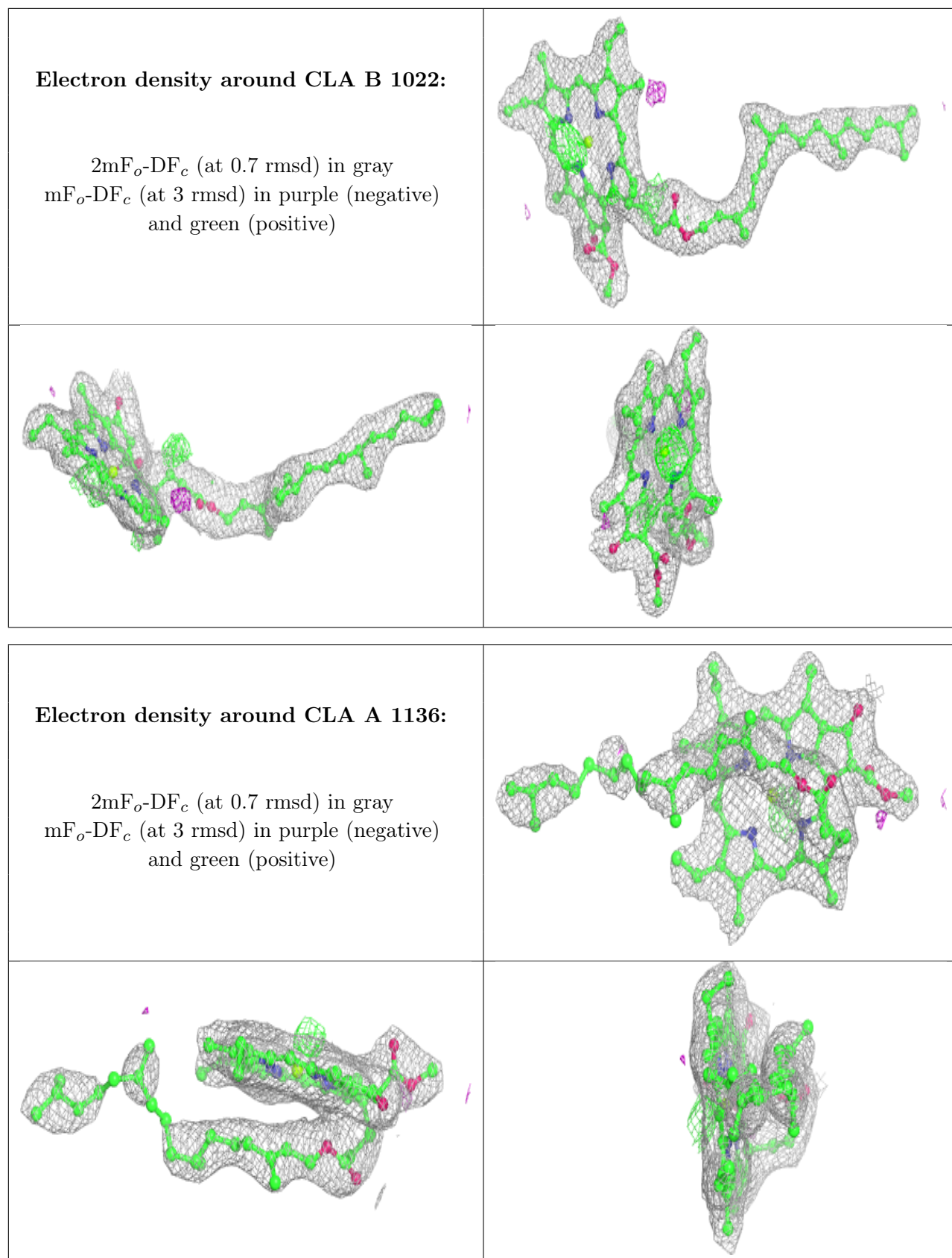
Electron density around CLA B 1239:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around CLA A 1110:**

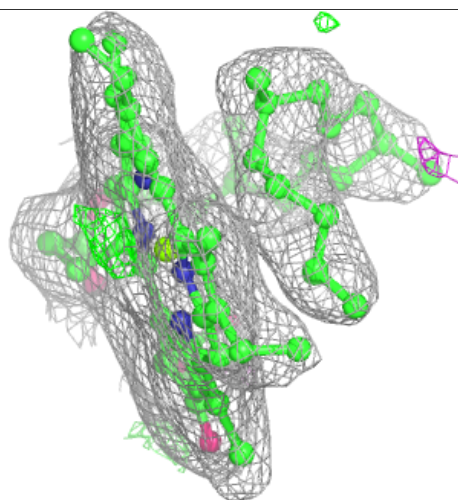
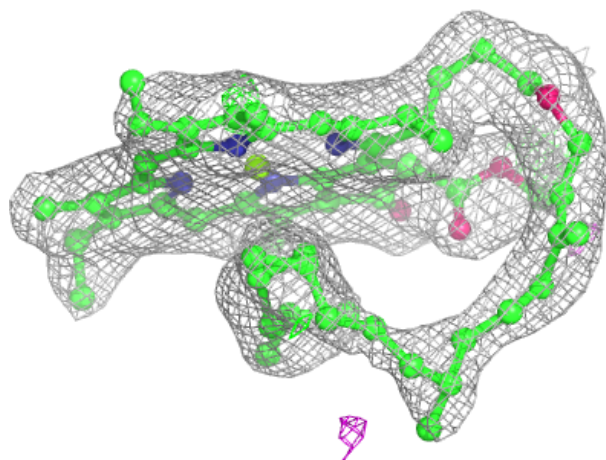
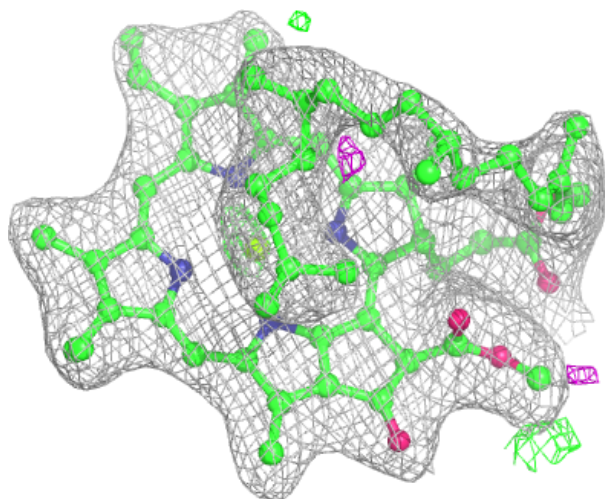
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

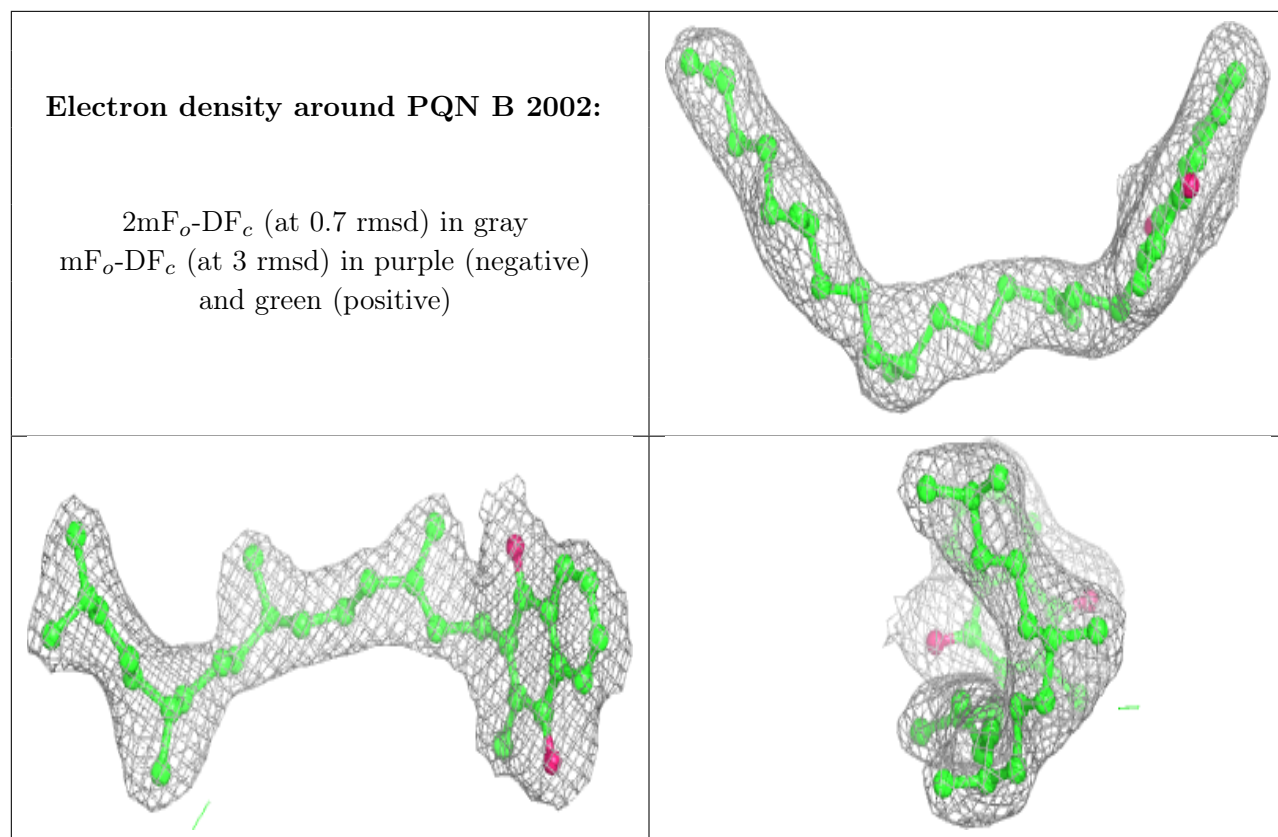




Electron density around CLA b 1203:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





6.5 Other polymers [i](#)

There are no such residues in this entry.