



## Full wwPDB EM Validation Report ⓘ

Oct 27, 2024 – 12:21 PM JST

PDB ID : 5ZGB  
EMDB ID : EMD-6929  
Title : Cryo-EM structure of the red algal PSI-LHCR  
Authors : Pi, X.  
Deposited on : 2018-03-08  
Resolution : 3.63 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

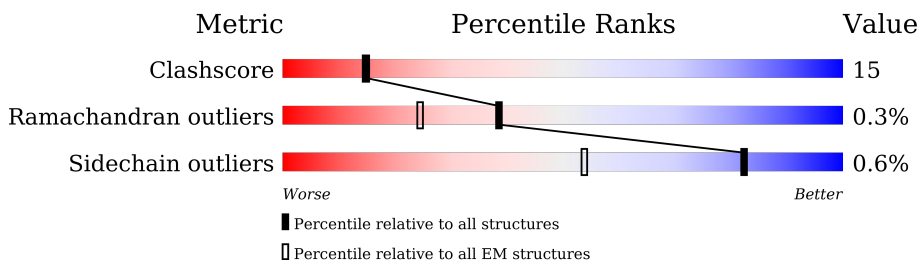
EMDB validation analysis : 0.0.1.dev113  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
MolProbity : 4.02b-467  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)  
MapQ : 1.9.13  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.39

# 1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:  
*ELECTRON MICROSCOPY*

The reported resolution of this entry is 3.63 Å.

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



| Metric                | Whole archive (#Entries) | EM structures (#Entries) |
|-----------------------|--------------------------|--------------------------|
| Clashscore            | 210492                   | 15764                    |
| Ramachandran outliers | 207382                   | 16835                    |
| Sidechain outliers    | 206894                   | 16415                    |

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions  $\leq 5\%$ . The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion  $< 40\%$ ). The numeric value is given above the bar.

| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 1   | A     | 748    |                  |
| 2   | B     | 732    |                  |
| 3   | C     | 81     |                  |
| 4   | D     | 139    |                  |
| 5   | E     | 94     |                  |
| 6   | F     | 185    |                  |
| 7   | I     | 32     |                  |
| 8   | J     | 38     |                  |

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 9   | K     | 60     |                  |
| 10  | L     | 140    |                  |
| 11  | M     | 29     |                  |
| 12  | O     | 155    |                  |
| 13  | 1     | 175    |                  |
| 13  | 4     | 175    |                  |
| 14  | 2     | 199    |                  |
| 14  | 5     | 199    |                  |
| 15  | 3     | 188    |                  |

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 |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 16  | CL0  | A     | 801 | X         | -        | X       | -                |
| 17  | CLA  | 1     | 601 | X         | -        | -       | -                |
| 17  | CLA  | 1     | 602 | X         | -        | -       | -                |
| 17  | CLA  | 1     | 603 | X         | -        | -       | -                |
| 17  | CLA  | 1     | 604 | X         | -        | -       | -                |
| 17  | CLA  | 1     | 605 | X         | -        | -       | -                |
| 17  | CLA  | 1     | 606 | X         | -        | -       | -                |
| 17  | CLA  | 1     | 607 | X         | -        | -       | -                |
| 17  | CLA  | 1     | 608 | X         | -        | -       | -                |
| 17  | CLA  | 1     | 609 | X         | -        | -       | -                |
| 17  | CLA  | 1     | 610 | X         | -        | -       | -                |
| 17  | CLA  | 1     | 611 | X         | -        | -       | -                |
| 17  | CLA  | 1     | 612 | X         | -        | -       | -                |
| 17  | CLA  | 2     | 601 | X         | -        | -       | -                |
| 17  | CLA  | 2     | 602 | X         | -        | -       | -                |
| 17  | CLA  | 2     | 603 | X         | -        | -       | -                |
| 17  | CLA  | 2     | 604 | X         | -        | -       | -                |
| 17  | CLA  | 2     | 605 | X         | -        | -       | -                |
| 17  | CLA  | 2     | 606 | X         | -        | -       | -                |
| 17  | CLA  | 2     | 607 | X         | -        | -       | -                |
| 17  | CLA  | 2     | 608 | X         | -        | -       | -                |
| 17  | CLA  | 2     | 609 | X         | -        | -       | -                |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 17  | CLA  | 2     | 610 | X         | -        | -       | -                |
| 17  | CLA  | 2     | 611 | X         | -        | -       | -                |
| 17  | CLA  | 2     | 612 | X         | -        | -       | -                |
| 17  | CLA  | 2     | 613 | X         | -        | -       | -                |
| 17  | CLA  | 3     | 202 | X         | -        | -       | -                |
| 17  | CLA  | 3     | 203 | X         | -        | -       | -                |
| 17  | CLA  | 3     | 204 | X         | -        | -       | -                |
| 17  | CLA  | 3     | 205 | X         | -        | -       | -                |
| 17  | CLA  | 3     | 206 | X         | -        | -       | -                |
| 17  | CLA  | 3     | 207 | X         | -        | -       | -                |
| 17  | CLA  | 3     | 208 | X         | -        | -       | -                |
| 17  | CLA  | 3     | 209 | X         | -        | -       | -                |
| 17  | CLA  | 3     | 210 | X         | -        | -       | -                |
| 17  | CLA  | 3     | 211 | X         | -        | -       | -                |
| 17  | CLA  | 3     | 212 | X         | -        | -       | -                |
| 17  | CLA  | 3     | 213 | X         | -        | -       | -                |
| 17  | CLA  | 4     | 601 | X         | -        | -       | -                |
| 17  | CLA  | 4     | 602 | X         | -        | -       | -                |
| 17  | CLA  | 4     | 603 | X         | -        | -       | -                |
| 17  | CLA  | 4     | 604 | X         | -        | -       | -                |
| 17  | CLA  | 4     | 605 | X         | -        | -       | -                |
| 17  | CLA  | 4     | 606 | X         | -        | -       | -                |
| 17  | CLA  | 4     | 607 | X         | -        | -       | -                |
| 17  | CLA  | 4     | 608 | X         | -        | -       | -                |
| 17  | CLA  | 4     | 609 | X         | -        | -       | -                |
| 17  | CLA  | 4     | 610 | X         | -        | -       | -                |
| 17  | CLA  | 4     | 611 | X         | -        | -       | -                |
| 17  | CLA  | 5     | 601 | X         | -        | -       | -                |
| 17  | CLA  | 5     | 602 | X         | -        | -       | -                |
| 17  | CLA  | 5     | 603 | X         | -        | -       | -                |
| 17  | CLA  | 5     | 604 | X         | -        | -       | -                |
| 17  | CLA  | 5     | 605 | X         | -        | -       | -                |
| 17  | CLA  | 5     | 606 | X         | -        | -       | -                |
| 17  | CLA  | 5     | 607 | X         | -        | -       | -                |
| 17  | CLA  | 5     | 608 | X         | -        | -       | -                |
| 17  | CLA  | 5     | 609 | X         | -        | -       | -                |
| 17  | CLA  | 5     | 610 | X         | -        | -       | -                |
| 17  | CLA  | 5     | 611 | X         | -        | -       | -                |
| 17  | CLA  | 5     | 612 | X         | -        | -       | -                |
| 17  | CLA  | 5     | 613 | X         | -        | -       | -                |
| 17  | CLA  | A     | 802 | X         | -        | -       | -                |
| 17  | CLA  | A     | 803 | X         | -        | -       | -                |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 17  | CLA  | A     | 804 | X         | -        | -       | -                |
| 17  | CLA  | A     | 805 | X         | -        | -       | -                |
| 17  | CLA  | A     | 806 | X         | -        | -       | -                |
| 17  | CLA  | A     | 807 | X         | -        | -       | -                |
| 17  | CLA  | A     | 808 | X         | -        | -       | -                |
| 17  | CLA  | A     | 809 | X         | -        | -       | -                |
| 17  | CLA  | A     | 810 | X         | -        | -       | -                |
| 17  | CLA  | A     | 811 | X         | -        | -       | -                |
| 17  | CLA  | A     | 812 | X         | -        | -       | -                |
| 17  | CLA  | A     | 813 | X         | -        | -       | -                |
| 17  | CLA  | A     | 814 | X         | -        | -       | -                |
| 17  | CLA  | A     | 815 | X         | -        | -       | -                |
| 17  | CLA  | A     | 816 | X         | -        | -       | -                |
| 17  | CLA  | A     | 817 | X         | -        | -       | -                |
| 17  | CLA  | A     | 818 | X         | -        | -       | -                |
| 17  | CLA  | A     | 819 | X         | -        | -       | -                |
| 17  | CLA  | A     | 820 | X         | -        | -       | -                |
| 17  | CLA  | A     | 821 | X         | -        | -       | -                |
| 17  | CLA  | A     | 822 | X         | -        | -       | -                |
| 17  | CLA  | A     | 823 | X         | -        | -       | -                |
| 17  | CLA  | A     | 824 | X         | -        | -       | -                |
| 17  | CLA  | A     | 825 | X         | -        | -       | -                |
| 17  | CLA  | A     | 826 | X         | -        | -       | -                |
| 17  | CLA  | A     | 827 | X         | -        | -       | -                |
| 17  | CLA  | A     | 828 | X         | -        | -       | -                |
| 17  | CLA  | A     | 829 | X         | -        | -       | -                |
| 17  | CLA  | A     | 830 | X         | -        | -       | -                |
| 17  | CLA  | A     | 831 | X         | -        | -       | -                |
| 17  | CLA  | A     | 832 | X         | -        | -       | -                |
| 17  | CLA  | A     | 833 | X         | -        | -       | -                |
| 17  | CLA  | A     | 834 | X         | -        | -       | -                |
| 17  | CLA  | A     | 835 | X         | -        | -       | -                |
| 17  | CLA  | A     | 836 | X         | -        | -       | -                |
| 17  | CLA  | A     | 837 | X         | -        | -       | -                |
| 17  | CLA  | A     | 838 | X         | -        | -       | -                |
| 17  | CLA  | A     | 839 | X         | -        | -       | -                |
| 17  | CLA  | A     | 848 | X         | -        | -       | -                |
| 17  | CLA  | B     | 801 | X         | -        | -       | -                |
| 17  | CLA  | B     | 802 | X         | -        | -       | -                |
| 17  | CLA  | B     | 803 | X         | -        | -       | -                |
| 17  | CLA  | B     | 804 | X         | -        | -       | -                |
| 17  | CLA  | B     | 806 | X         | -        | -       | -                |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 17  | CLA  | B     | 807 | X         | -        | -       | -                |
| 17  | CLA  | B     | 808 | X         | -        | -       | -                |
| 17  | CLA  | B     | 809 | X         | -        | -       | -                |
| 17  | CLA  | B     | 810 | X         | -        | -       | -                |
| 17  | CLA  | B     | 811 | X         | -        | -       | -                |
| 17  | CLA  | B     | 812 | X         | -        | -       | -                |
| 17  | CLA  | B     | 813 | X         | -        | -       | -                |
| 17  | CLA  | B     | 814 | X         | -        | -       | -                |
| 17  | CLA  | B     | 815 | X         | -        | -       | -                |
| 17  | CLA  | B     | 816 | X         | -        | -       | -                |
| 17  | CLA  | B     | 817 | X         | -        | -       | -                |
| 17  | CLA  | B     | 818 | X         | -        | -       | -                |
| 17  | CLA  | B     | 819 | X         | -        | -       | -                |
| 17  | CLA  | B     | 820 | X         | -        | -       | -                |
| 17  | CLA  | B     | 821 | X         | -        | -       | -                |
| 17  | CLA  | B     | 822 | X         | -        | -       | -                |
| 17  | CLA  | B     | 823 | X         | -        | -       | -                |
| 17  | CLA  | B     | 824 | X         | -        | -       | -                |
| 17  | CLA  | B     | 825 | X         | -        | -       | -                |
| 17  | CLA  | B     | 826 | X         | -        | -       | -                |
| 17  | CLA  | B     | 827 | X         | -        | -       | -                |
| 17  | CLA  | B     | 828 | X         | -        | -       | -                |
| 17  | CLA  | B     | 829 | X         | -        | -       | -                |
| 17  | CLA  | B     | 830 | X         | -        | -       | -                |
| 17  | CLA  | B     | 831 | X         | -        | -       | -                |
| 17  | CLA  | B     | 832 | X         | -        | -       | -                |
| 17  | CLA  | B     | 833 | X         | -        | -       | -                |
| 17  | CLA  | B     | 834 | X         | -        | -       | -                |
| 17  | CLA  | B     | 835 | X         | -        | -       | -                |
| 17  | CLA  | B     | 836 | X         | -        | -       | -                |
| 17  | CLA  | B     | 837 | X         | -        | -       | -                |
| 17  | CLA  | B     | 838 | X         | -        | -       | -                |
| 17  | CLA  | B     | 839 | X         | -        | -       | -                |
| 17  | CLA  | B     | 840 | X         | -        | -       | -                |
| 17  | CLA  | B     | 841 | X         | -        | -       | -                |
| 17  | CLA  | B     | 842 | X         | -        | -       | -                |
| 17  | CLA  | B     | 843 | X         | -        | -       | -                |
| 17  | CLA  | F     | 301 | X         | -        | -       | -                |
| 17  | CLA  | F     | 302 | X         | -        | -       | -                |
| 17  | CLA  | F     | 303 | X         | -        | -       | -                |
| 17  | CLA  | J     | 101 | X         | -        | -       | -                |
| 17  | CLA  | J     | 102 | X         | -        | -       | -                |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 17  | CLA  | J     | 103 | X         | -        | -       | -                |
| 17  | CLA  | K     | 102 | X         | -        | -       | -                |
| 17  | CLA  | K     | 103 | X         | -        | -       | -                |
| 17  | CLA  | L     | 202 | X         | -        | -       | -                |
| 17  | CLA  | L     | 203 | X         | -        | -       | -                |
| 17  | CLA  | L     | 204 | X         | -        | -       | -                |
| 17  | CLA  | O     | 201 | X         | -        | -       | -                |
| 17  | CLA  | O     | 203 | X         | -        | -       | -                |
| 17  | CLA  | O     | 204 | X         | -        | -       | -                |
| 17  | CLA  | O     | 205 | X         | -        | -       | -                |
| 25  | ZEX  | 1     | 615 | -         | X        | -       | -                |
| 25  | ZEX  | 1     | 616 | -         | X        | -       | -                |
| 25  | ZEX  | 2     | 614 | -         | X        | -       | -                |
| 25  | ZEX  | 3     | 216 | -         | X        | -       | -                |
| 25  | ZEX  | 3     | 218 | -         | X        | -       | -                |
| 25  | ZEX  | 4     | 612 | -         | X        | -       | -                |
| 25  | ZEX  | 5     | 614 | -         | X        | -       | -                |
| 25  | ZEX  | 5     | 615 | -         | X        | -       | -                |

## 2 Entry composition i

There are 26 unique types of molecules in this entry. The entry contains 35011 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called PsaA.

| Mol | Chain | Residues | Atoms |      |     |     |    | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|----|---------|-------|
|     |       |          | Total | C    | N   | O   | S  |         |       |
| 1   | A     | 741      | 5798  | 3792 | 996 | 983 | 27 | 0       | 0     |

- Molecule 2 is a protein called PsaB.

| Mol | Chain | Residues | Atoms |      |     |     |    | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|----|---------|-------|
|     |       |          | Total | C    | N   | O   | S  |         |       |
| 2   | B     | 731      | 5819  | 3827 | 982 | 991 | 19 | 0       | 0     |

- Molecule 3 is a protein called PsaC.

| Mol | Chain | Residues | Atoms |     |     |     |    | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|----|---------|-------|
|     |       |          | Total | C   | N   | O   | S  |         |       |
| 3   | C     | 80       | 597   | 367 | 104 | 114 | 12 | 0       | 0     |

- Molecule 4 is a protein called PsaD.

| Mol | Chain | Residues | Atoms |     |     |     |   | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
|     |       |          | Total | C   | N   | O   | S |         |       |
| 4   | D     | 119      | 950   | 600 | 167 | 179 | 4 | 0       | 0     |

- Molecule 5 is a protein called PsaE.

| Mol | Chain | Residues | Atoms |     |    |    | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---------|-------|
|     |       |          | Total | C   | N  | O  |         |       |
| 5   | E     | 61       | 493   | 322 | 79 | 92 | 0       | 0     |

- Molecule 6 is a protein called PsaF.

| Mol | Chain | Residues | Atoms |     |     |     |   | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
|     |       |          | Total | C   | N   | O   | S |         |       |
| 6   | F     | 154      | 1263  | 811 | 214 | 234 | 4 | 0       | 0     |

- Molecule 7 is a protein called PsaI.

| Mol | Chain | Residues | Atoms |     |    |    |   | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|-------|
|     |       |          | Total | C   | N  | O  | S |         |       |
| 7   | I     | 31       | 230   | 158 | 32 | 39 | 1 | 0       | 0     |

- Molecule 8 is a protein called PsaJ.

| Mol | Chain | Residues | Atoms |     |    |    |   | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|-------|
|     |       |          | Total | C   | N  | O  | S |         |       |
| 8   | J     | 38       | 312   | 214 | 46 | 51 | 1 | 0       | 0     |

- Molecule 9 is a protein called PsaK.

| Mol | Chain | Residues | Atoms |     |    |    |   | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|-------|
|     |       |          | Total | C   | N  | O  | S |         |       |
| 9   | K     | 59       | 428   | 279 | 70 | 74 | 5 | 0       | 0     |

- Molecule 10 is a protein called PsaL.

| Mol | Chain | Residues | Atoms |     |     |     |   | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
|     |       |          | Total | C   | N   | O   | S |         |       |
| 10  | L     | 119      | 900   | 591 | 148 | 159 | 2 | 0       | 0     |

- Molecule 11 is a protein called PsaM.

| Mol | Chain | Residues | Atoms |     |    |    |   | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|-------|
|     |       |          | Total | C   | N  | O  | S |         |       |
| 11  | M     | 27       | 204   | 136 | 32 | 34 | 2 | 0       | 0     |

- Molecule 12 is a protein called PsaO.

| Mol | Chain | Residues | Atoms |     |    |     | AltConf | Trace |
|-----|-------|----------|-------|-----|----|-----|---------|-------|
|     |       |          | Total | C   | N  | O   |         |       |
| 12  | O     | 83       | 641   | 439 | 97 | 105 | 0       | 0     |

- Molecule 13 is a protein called Lhcr1.

| Mol | Chain | Residues | Atoms |     |     |     |   | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
|     |       |          | Total | C   | N   | O   | S |         |       |
| 13  | 1     | 169      | 1351  | 887 | 227 | 229 | 8 | 0       | 0     |
| 13  | 4     | 170      | 1358  | 892 | 228 | 230 | 8 | 0       | 0     |

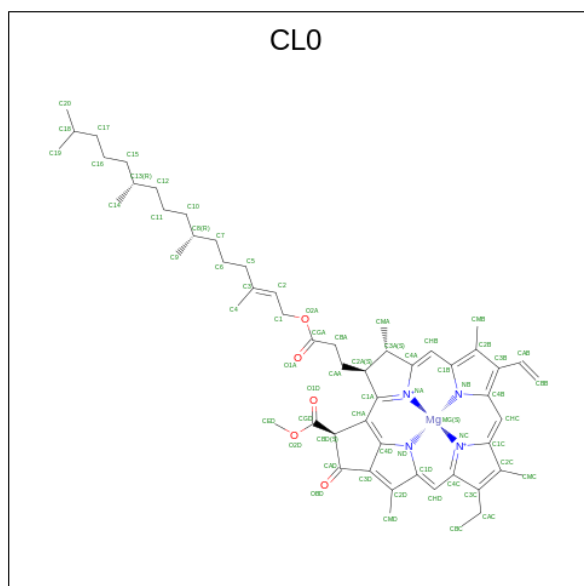
- Molecule 14 is a protein called Lhcr2.

| Mol | Chain | Residues | Atoms |     |     |     |   | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
|     |       |          | Total | C   | N   | O   | S |         |       |
| 14  | 2     | 175      | Total | C   | N   | O   | S | 0       | 0     |
|     |       |          | 1371  | 892 | 233 | 239 | 7 |         |       |
| 14  | 5     | 175      | Total | C   | N   | O   | S | 0       | 0     |
|     |       |          | 1371  | 892 | 233 | 239 | 7 |         |       |

- Molecule 15 is a protein called Lhcr3.

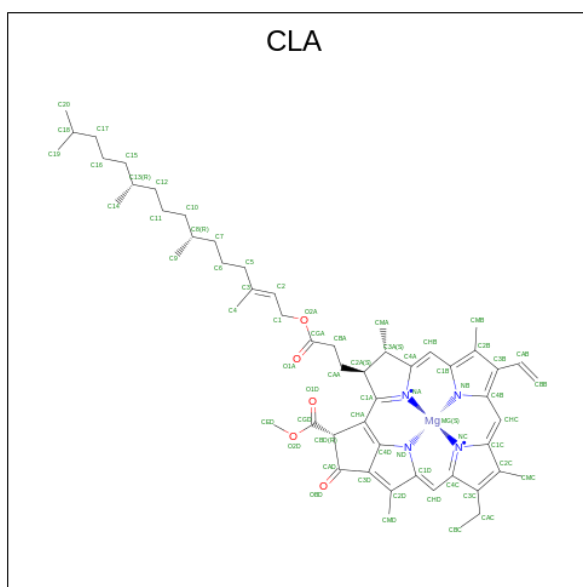
| Mol | Chain | Residues | Atoms |     |     |     |   | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
|     |       |          | Total | C   | N   | O   | S |         |       |
| 15  | 3     | 170      | Total | C   | N   | O   | S | 0       | 0     |
|     |       |          | 1303  | 845 | 219 | 232 | 7 |         |       |

- Molecule 16 is CHLOROPHYLL A ISOMER (three-letter code: CL0) (formula:  $C_{55}H_{72}MgN_4O_5$ ).



| Mol | Chain | Residues | Atoms |    |    |   |   | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|
|     |       |          | Total | C  | Mg | N | O |         |
| 16  | A     | 1        | Total | C  | Mg | N | O | 0       |
|     |       |          | 65    | 55 | 1  | 4 | 5 |         |

- Molecule 17 is CHLOROPHYLL A (three-letter code: CLA) (formula:  $C_{55}H_{72}MgN_4O_5$ ).



| Mol | Chain | Residues | Atoms |    |    |   | AltConf |   |
|-----|-------|----------|-------|----|----|---|---------|---|
|     |       |          | Total | C  | Mg | N |         | O |
| 17  | A     | 1        | 55    | 45 | 1  | 4 | 5       | 0 |
| 17  | A     | 1        | 65    | 55 | 1  | 4 | 5       | 0 |
| 17  | A     | 1        | 65    | 55 | 1  | 4 | 5       | 0 |
| 17  | A     | 1        | 65    | 55 | 1  | 4 | 5       | 0 |
| 17  | A     | 1        | 65    | 55 | 1  | 4 | 5       | 0 |
| 17  | A     | 1        | 65    | 55 | 1  | 4 | 5       | 0 |
| 17  | A     | 1        | 65    | 55 | 1  | 4 | 5       | 0 |
| 17  | A     | 1        | 65    | 55 | 1  | 4 | 5       | 0 |
| 17  | A     | 1        | 54    | 44 | 1  | 4 | 5       | 0 |
| 17  | A     | 1        | 65    | 55 | 1  | 4 | 5       | 0 |
| 17  | A     | 1        | 45    | 35 | 1  | 4 | 5       | 0 |
| 17  | A     | 1        | 42    | 34 | 1  | 4 | 3       | 0 |
| 17  | A     | 1        | 45    | 35 | 1  | 4 | 5       | 0 |
| 17  | A     | 1        | 62    | 52 | 1  | 4 | 5       | 0 |

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| Mol | Chain | Residues | Atoms |    |    |   |   | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|
|     |       |          | Total | C  | Mg | N | O |         |
| 17  | A     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | A     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | A     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | A     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | A     | 1        | 49    | 39 | 1  | 4 | 5 | 0       |
| 17  | A     | 1        | 51    | 41 | 1  | 4 | 5 | 0       |
| 17  | A     | 1        | 55    | 45 | 1  | 4 | 5 | 0       |
| 17  | A     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | A     | 1        | 55    | 45 | 1  | 4 | 5 | 0       |
| 17  | A     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | A     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | A     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | A     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | A     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | A     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | A     | 1        | 50    | 40 | 1  | 4 | 5 | 0       |
| 17  | A     | 1        | 56    | 46 | 1  | 4 | 5 | 0       |
| 17  | A     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | A     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | A     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | A     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | A     | 1        | 51    | 41 | 1  | 4 | 5 | 0       |
| 17  | A     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |

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| Mol | Chain | Residues | Atoms |    |    |   |   | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|
|     |       |          | Total | C  | Mg | N | O |         |
| 17  | A     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | A     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | A     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | A     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 54    | 44 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 55    | 45 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 42    | 34 | 1  | 4 | 3 | 0       |

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| Mol | Chain | Residues | Atoms |    |    |   |   | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|
|     |       |          | Total | C  | Mg | N | O |         |
| 17  | B     | 1        | 55    | 45 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 59    | 49 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 60    | 50 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 46    | 36 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 43    | 35 | 1  | 4 | 3 | 0       |
| 17  | B     | 1        | 55    | 45 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 43    | 35 | 1  | 4 | 3 | 0       |
| 17  | B     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 60    | 50 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |

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| Mol | Chain | Residues | Atoms |    |    |   |   | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|
|     |       |          | Total | C  | Mg | N | O |         |
| 17  | B     | 1        | 47    | 37 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | B     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | F     | 1        | 61    | 51 | 1  | 4 | 5 | 0       |
| 17  | F     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | F     | 1        | 41    | 33 | 1  | 4 | 3 | 0       |
| 17  | J     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | J     | 1        | 58    | 48 | 1  | 4 | 5 | 0       |
| 17  | J     | 1        | 42    | 34 | 1  | 4 | 3 | 0       |
| 17  | K     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | K     | 1        | 42    | 34 | 1  | 4 | 3 | 0       |
| 17  | L     | 1        | 57    | 47 | 1  | 4 | 5 | 0       |
| 17  | L     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | L     | 1        | 50    | 40 | 1  | 4 | 5 | 0       |
| 17  | O     | 1        | 52    | 42 | 1  | 4 | 5 | 0       |
| 17  | O     | 1        | 41    | 33 | 1  | 4 | 3 | 0       |
| 17  | O     | 1        | 50    | 40 | 1  | 4 | 5 | 0       |
| 17  | O     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 1     | 1        | 48    | 38 | 1  | 4 | 5 | 0       |
| 17  | 1     | 1        | 59    | 49 | 1  | 4 | 5 | 0       |

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| Mol | Chain | Residues | Atoms |    |    |   |   | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|
|     |       |          | Total | C  | Mg | N | O |         |
| 17  | 1     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 1     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 1     | 1        | 42    | 34 | 1  | 4 | 3 | 0       |
| 17  | 1     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 1     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 1     | 1        | 60    | 50 | 1  | 4 | 5 | 0       |
| 17  | 1     | 1        | 41    | 33 | 1  | 4 | 3 | 0       |
| 17  | 1     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 1     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 1     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 2     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 2     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | 2     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 2     | 1        | 42    | 34 | 1  | 4 | 3 | 0       |
| 17  | 2     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 2     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 2     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 2     | 1        | 50    | 40 | 1  | 4 | 5 | 0       |
| 17  | 2     | 1        | 41    | 33 | 1  | 4 | 3 | 0       |
| 17  | 2     | 1        | 42    | 34 | 1  | 4 | 3 | 0       |
| 17  | 2     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |

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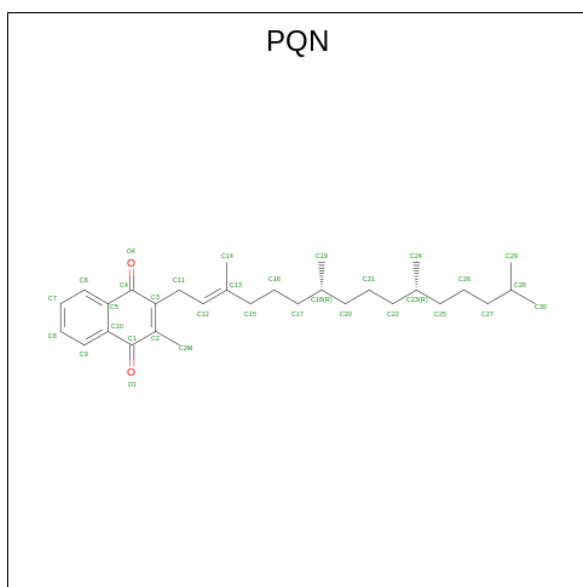
| Mol | Chain | Residues | Atoms |    |    |   |   | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|
|     |       |          | Total | C  | Mg | N | O |         |
| 17  | 2     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 2     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 3     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 3     | 1        | 63    | 53 | 1  | 4 | 5 | 0       |
| 17  | 3     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 3     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 3     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 3     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 3     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 3     | 1        | 52    | 42 | 1  | 4 | 5 | 0       |
| 17  | 3     | 1        | 41    | 33 | 1  | 4 | 3 | 0       |
| 17  | 3     | 1        | 42    | 34 | 1  | 4 | 3 | 0       |
| 17  | 3     | 1        | 46    | 36 | 1  | 4 | 5 | 0       |
| 17  | 3     | 1        | 51    | 41 | 1  | 4 | 5 | 0       |
| 17  | 4     | 1        | 48    | 38 | 1  | 4 | 5 | 0       |
| 17  | 4     | 1        | 59    | 49 | 1  | 4 | 5 | 0       |
| 17  | 4     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 4     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 4     | 1        | 42    | 34 | 1  | 4 | 3 | 0       |
| 17  | 4     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 4     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |

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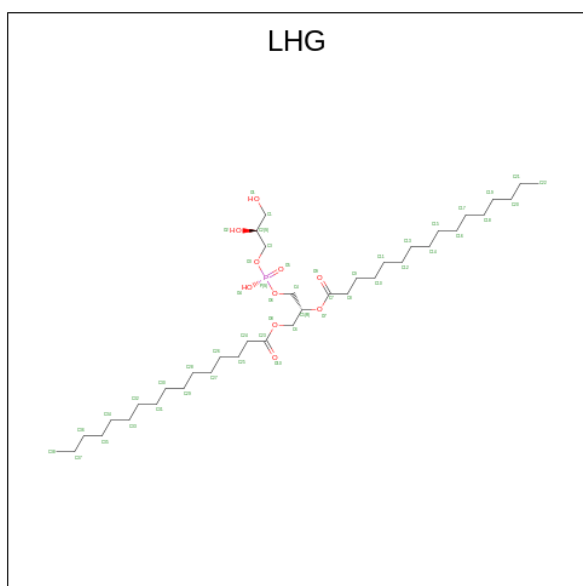
| Mol | Chain | Residues | Atoms |    |    |   |   | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|
|     |       |          | Total | C  | Mg | N | O |         |
| 17  | 4     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 4     | 1        | 41    | 33 | 1  | 4 | 3 | 0       |
| 17  | 4     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 4     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 5     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 5     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 5     | 1        | 65    | 55 | 1  | 4 | 5 | 0       |
| 17  | 5     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 5     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 5     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 5     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 5     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 5     | 1        | 41    | 33 | 1  | 4 | 3 | 0       |
| 17  | 5     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 5     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 5     | 1        | 45    | 35 | 1  | 4 | 5 | 0       |
| 17  | 5     | 1        | 44    | 36 | 1  | 4 | 3 | 0       |

- Molecule 18 is PHYLLOQUINONE (three-letter code: PQN) (formula: C<sub>31</sub>H<sub>46</sub>O<sub>2</sub>).



| Mol | Chain | Residues | Atoms |    |   | AltConf |
|-----|-------|----------|-------|----|---|---------|
| 18  | A     | 1        | Total | C  | O | 0       |
|     |       |          | 33    | 31 | 2 |         |
| 18  | B     | 1        | Total | C  | O | 0       |
|     |       |          | 33    | 31 | 2 |         |

- Molecule 19 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (three-letter code: LHG) (formula:  $C_{38}H_{75}O_{10}P$ ).



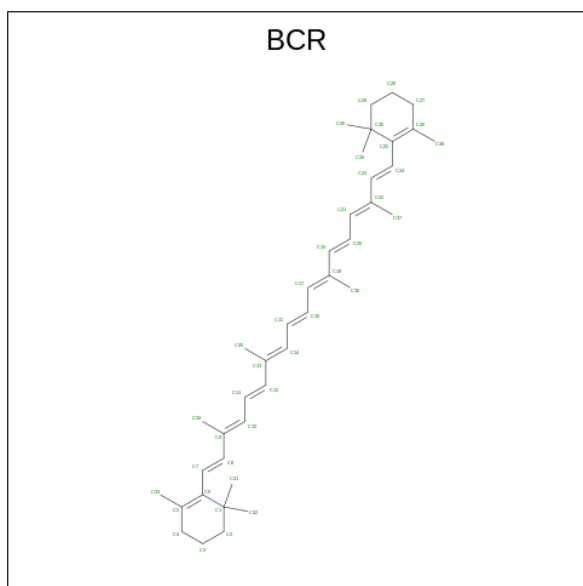
| Mol | Chain | Residues | Atoms |    |    |   | AltConf |
|-----|-------|----------|-------|----|----|---|---------|
| 19  | A     | 1        | Total | C  | O  | P | 0       |
|     |       |          | 49    | 38 | 10 | 1 |         |

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| Mol | Chain | Residues | Atoms |    |    |   | AltConf |
|-----|-------|----------|-------|----|----|---|---------|
|     |       |          | Total | C  | O  | P |         |
| 19  | A     | 1        | 40    | 29 | 10 | 1 | 0       |

- Molecule 20 is BETA-CAROTENE (three-letter code: BCR) (formula:  $C_{40}H_{56}$ ).



| Mol | Chain | Residues | Atoms |    | AltConf |
|-----|-------|----------|-------|----|---------|
| 20  | A     | 1        | Total | C  | 0       |
|     |       |          | 40    | 40 |         |
| 20  | A     | 1        | Total | C  | 0       |
|     |       |          | 40    | 40 |         |
| 20  | A     | 1        | Total | C  | 0       |
|     |       |          | 40    | 40 |         |
| 20  | A     | 1        | Total | C  | 0       |
|     |       |          | 40    | 40 |         |
| 20  | B     | 1        | Total | C  | 0       |
|     |       |          | 40    | 40 |         |
| 20  | B     | 1        | Total | C  | 0       |
|     |       |          | 40    | 40 |         |
| 20  | B     | 1        | Total | C  | 0       |
|     |       |          | 40    | 40 |         |
| 20  | B     | 1        | Total | C  | 0       |
|     |       |          | 40    | 40 |         |
| 20  | B     | 1        | Total | C  | 0       |
|     |       |          | 40    | 40 |         |

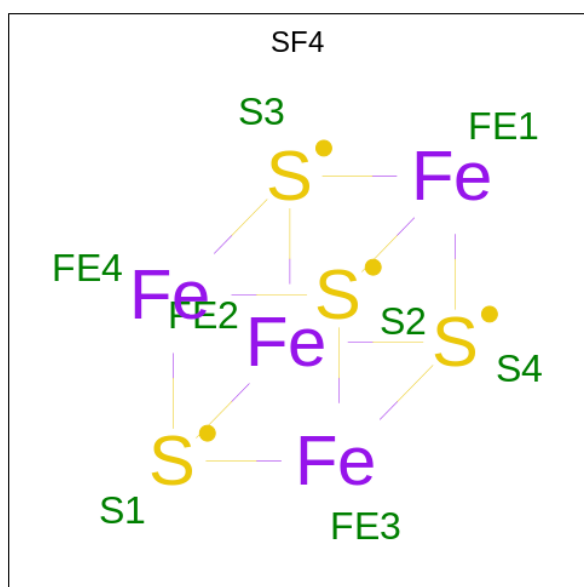
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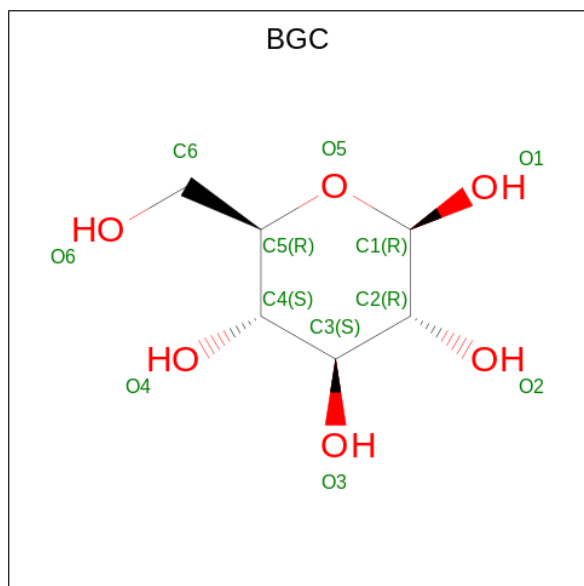
| Mol | Chain | Residues | Atoms            | AltConf |
|-----|-------|----------|------------------|---------|
| 20  | B     | 1        | Total C<br>40 40 | 0       |
| 20  | F     | 1        | Total C<br>40 40 | 0       |
| 20  | I     | 1        | Total C<br>40 40 | 0       |
| 20  | J     | 1        | Total C<br>40 40 | 0       |
| 20  | J     | 1        | Total C<br>40 40 | 0       |
| 20  | K     | 1        | Total C<br>40 40 | 0       |
| 20  | K     | 1        | Total C<br>40 40 | 0       |
| 20  | L     | 1        | Total C<br>40 40 | 0       |
| 20  | L     | 1        | Total C<br>40 40 | 0       |
| 20  | L     | 1        | Total C<br>40 40 | 0       |
| 20  | O     | 1        | Total C<br>40 40 | 0       |

- Molecule 21 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe<sub>4</sub>S<sub>4</sub>).



| Mol | Chain | Residues | Atoms |    |   | AltConf |
|-----|-------|----------|-------|----|---|---------|
| 21  | A     | 1        | Total | Fe | S | 0       |
|     |       |          | 8     | 4  | 4 |         |
| 21  | C     | 1        | Total | Fe | S | 0       |
|     |       |          | 8     | 4  | 4 |         |
| 21  | C     | 1        | Total | Fe | S | 0       |
|     |       |          | 8     | 4  | 4 |         |

- Molecule 22 is beta-D-glucopyranose (three-letter code: BGC) (formula: C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>).

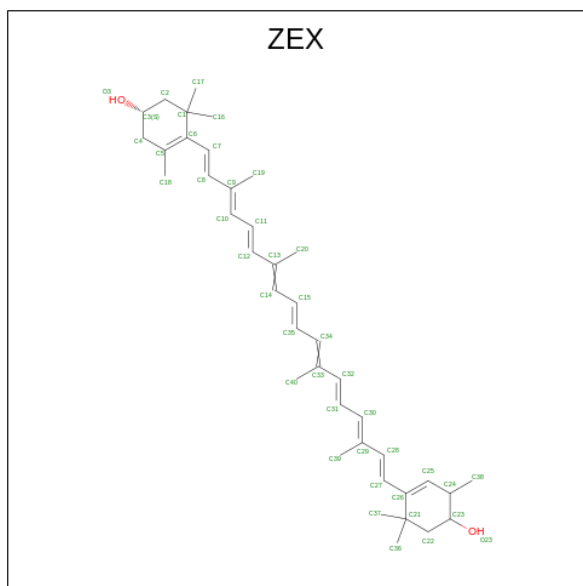


| Mol | Chain | Residues | Atoms |   |   | AltConf |
|-----|-------|----------|-------|---|---|---------|
| 22  | A     | 1        | Total | C | O | 0       |
|     |       |          | 11    | 6 | 5 |         |

- Molecule 23 is DIGALACTOSYL DIACYL GLYCEROL (DGDG) (three-letter code: DGD) (formula: C<sub>51</sub>H<sub>96</sub>O<sub>15</sub>).



2,5,5-trimethylcyclohex-3-en-1-ol (three-letter code: ZEX) (formula: C<sub>40</sub>H<sub>56</sub>O<sub>2</sub>).



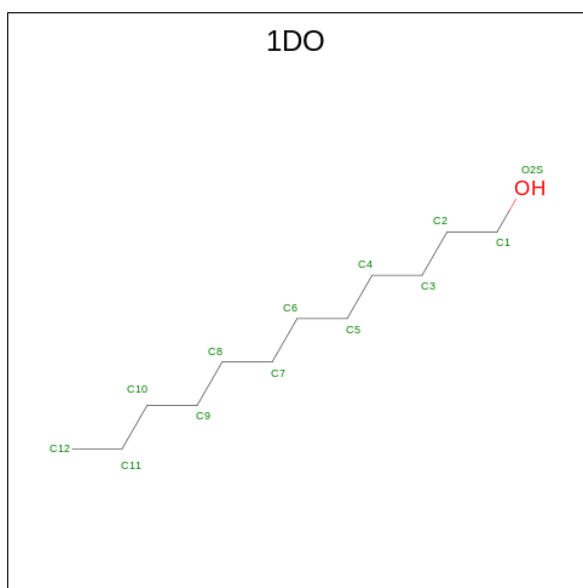
| Mol | Chain | Residues | Atoms |    |   | AltConf |
|-----|-------|----------|-------|----|---|---------|
| 25  | 1     | 1        | Total | C  | O | 0       |
|     |       |          | 42    | 40 | 2 |         |
| 25  | 1     | 1        | Total | C  | O | 0       |
|     |       |          | 42    | 40 | 2 |         |
| 25  | 1     | 1        | Total | C  | O | 0       |
|     |       |          | 42    | 40 | 2 |         |
| 25  | 1     | 1        | Total | C  | O | 0       |
|     |       |          | 42    | 40 | 2 |         |
| 25  | 1     | 1        | Total | C  | O | 0       |
|     |       |          | 42    | 40 | 2 |         |
| 25  | 2     | 1        | Total | C  | O | 0       |
|     |       |          | 42    | 40 | 2 |         |
| 25  | 2     | 1        | Total | C  | O | 0       |
|     |       |          | 42    | 40 | 2 |         |
| 25  | 2     | 1        | Total | C  | O | 0       |
|     |       |          | 42    | 40 | 2 |         |
| 25  | 3     | 1        | Total | C  | O | 0       |
|     |       |          | 42    | 40 | 2 |         |
| 25  | 3     | 1        | Total | C  | O | 0       |
|     |       |          | 42    | 40 | 2 |         |
| 25  | 3     | 1        | Total | C  | O | 0       |
|     |       |          | 42    | 40 | 2 |         |

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| Mol | Chain | Residues | Atoms |    |   | AltConf |
|-----|-------|----------|-------|----|---|---------|
| 25  | 3     | 1        | Total | C  | O | 0       |
|     |       |          | 42    | 40 | 2 |         |
| 25  | 3     | 1        | Total | C  | O | 0       |
|     |       |          | 42    | 40 | 2 |         |
| 25  | 4     | 1        | Total | C  | O | 0       |
|     |       |          | 42    | 40 | 2 |         |
| 25  | 4     | 1        | Total | C  | O | 0       |
|     |       |          | 42    | 40 | 2 |         |
| 25  | 4     | 1        | Total | C  | O | 0       |
|     |       |          | 42    | 40 | 2 |         |
| 25  | 4     | 1        | Total | C  | O | 0       |
|     |       |          | 42    | 40 | 2 |         |
| 25  | 4     | 1        | Total | C  | O | 0       |
|     |       |          | 42    | 40 | 2 |         |
| 25  | 4     | 1        | Total | C  | O | 0       |
|     |       |          | 42    | 40 | 2 |         |
| 25  | 5     | 1        | Total | C  | O | 0       |
|     |       |          | 42    | 40 | 2 |         |
| 25  | 5     | 1        | Total | C  | O | 0       |
|     |       |          | 42    | 40 | 2 |         |
| 25  | 5     | 1        | Total | C  | O | 0       |
|     |       |          | 42    | 40 | 2 |         |
| 25  | 5     | 1        | Total | C  | O | 0       |
|     |       |          | 42    | 40 | 2 |         |

- Molecule 26 is 1-DODECANOL (three-letter code: 1DO) (formula: C<sub>12</sub>H<sub>26</sub>O).

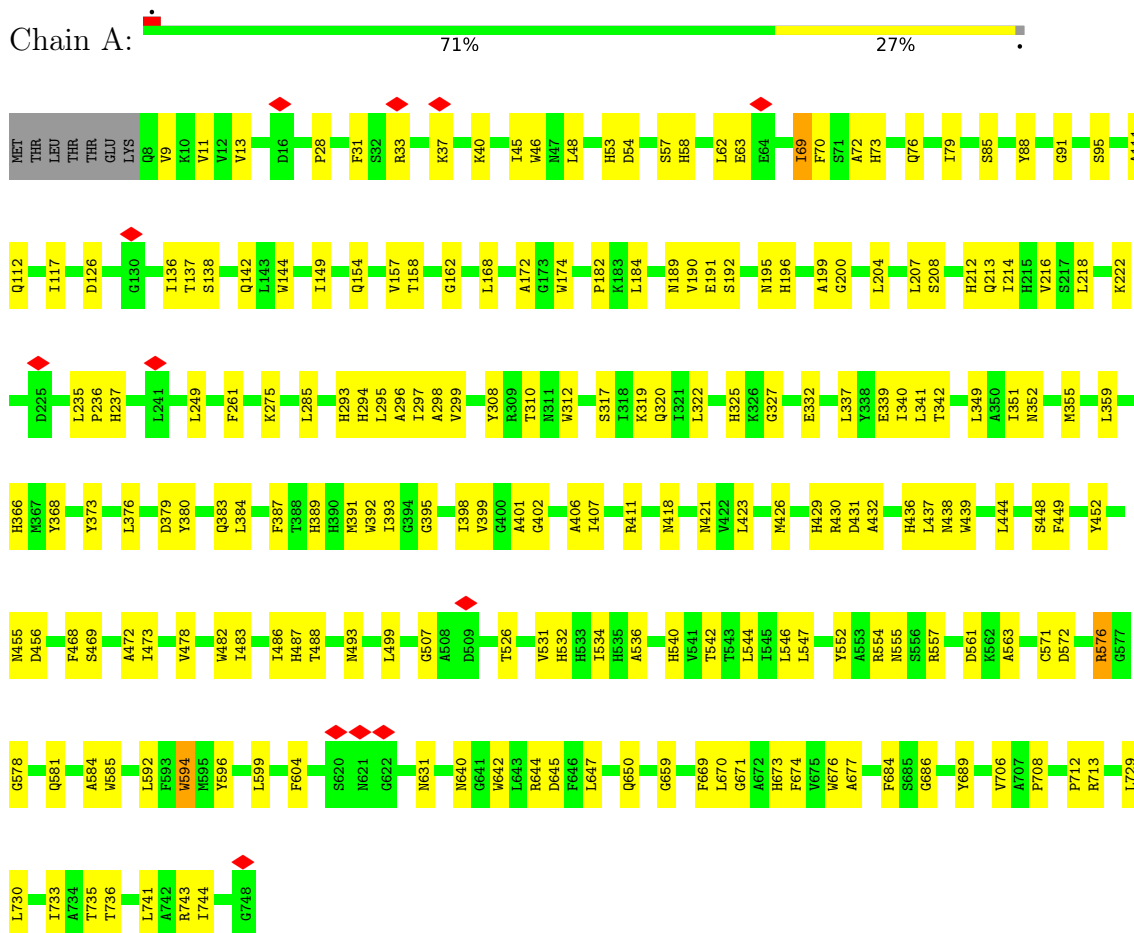


| Mol | Chain | Residues | Atoms |    |   | AltConf |
|-----|-------|----------|-------|----|---|---------|
|     |       |          | Total | C  | O |         |
| 26  | 3     | 1        | 13    | 12 | 1 | 0       |

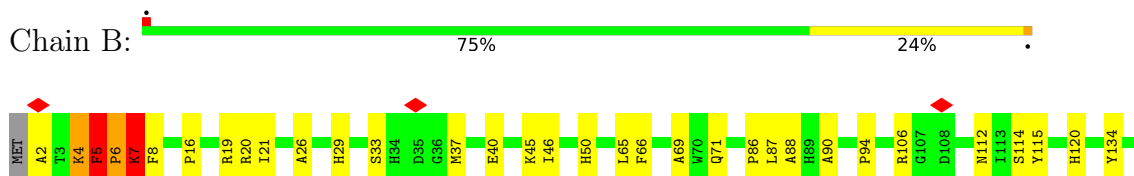
### 3 Residue-property plots [i](#)

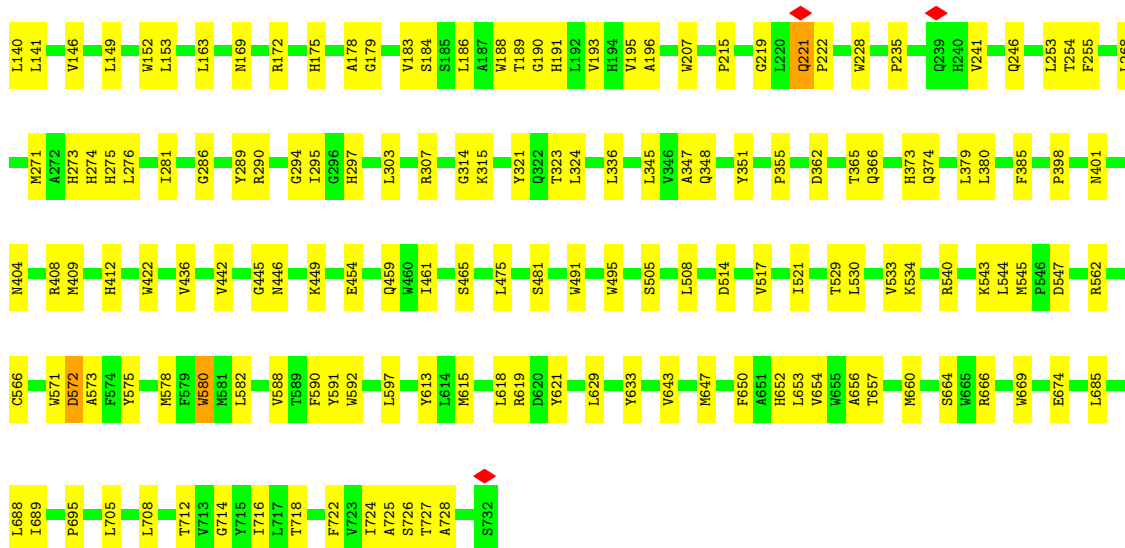
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: PsaA

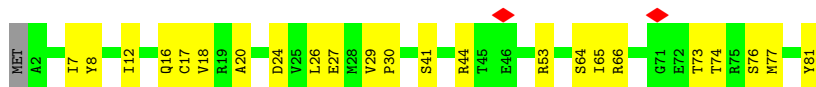


- Molecule 2: PsaB





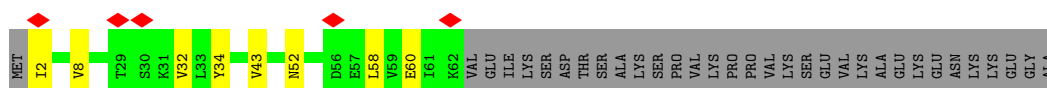
• Molecule 3: PsaC



• Molecule 4: PsaD



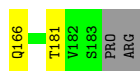
• Molecule 5: PsaE



• Molecule 6: PsaF



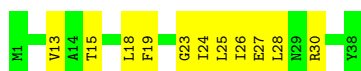




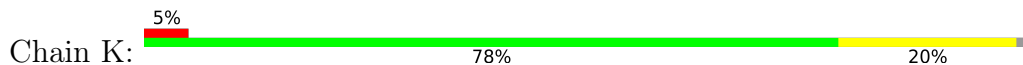
• Molecule 7: PsaI



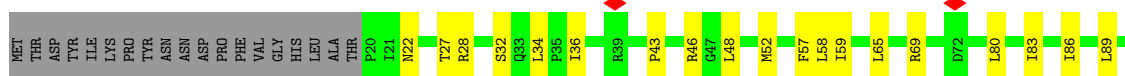
• Molecule 8: PsaJ



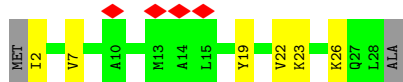
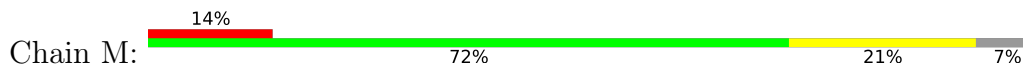
• Molecule 9: PsaK



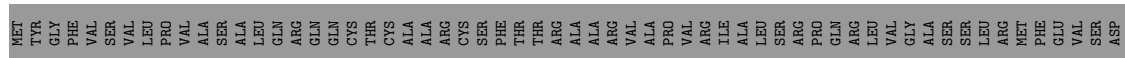
• Molecule 10: PsaL

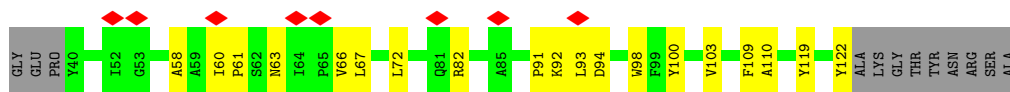


• Molecule 11: PsaM

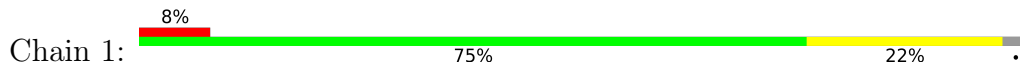


• Molecule 12: PsaO

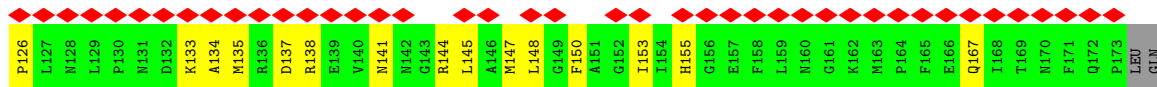
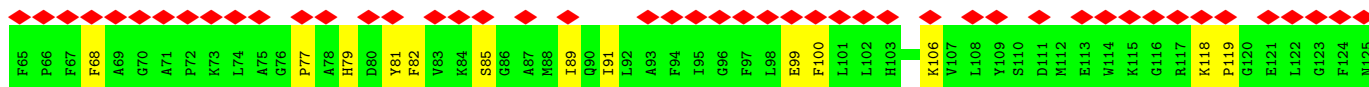
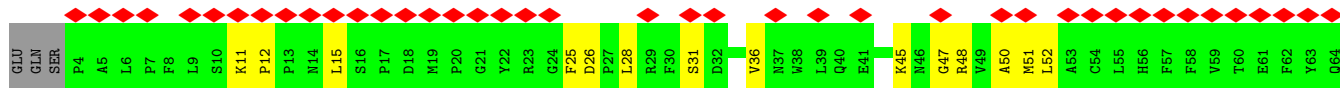
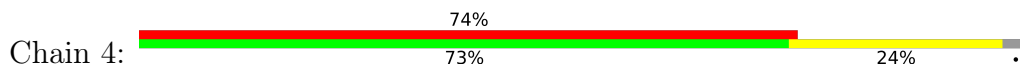




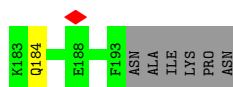
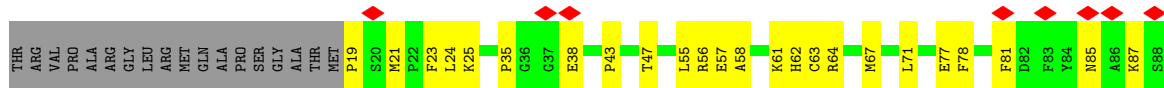
• Molecule 13: Lhcr1



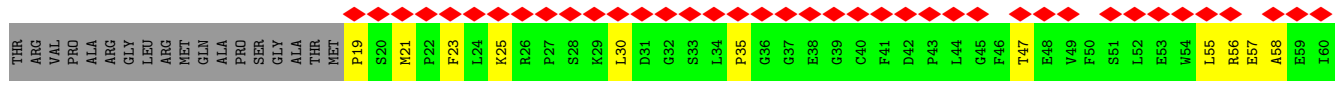
• Molecule 13: Lhcr1



• Molecule 14: Lhcr2

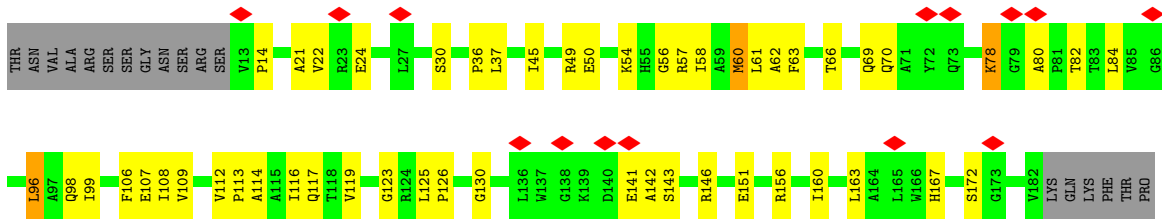


• Molecule 14: Lhcr2





• Molecule 15: Lhcr3



## 4 Experimental information

| Property                             | Value                   | Source    |
|--------------------------------------|-------------------------|-----------|
| EM reconstruction method             | SINGLE PARTICLE         | Depositor |
| Imposed symmetry                     | POINT, C1               | Depositor |
| Number of particles used             | 124279                  | Depositor |
| Resolution determination method      | FSC 0.143 CUT-OFF       | Depositor |
| CTF correction method                | NONE                    | Depositor |
| Microscope                           | FEI TITAN KRIOS         | Depositor |
| Voltage (kV)                         | 300                     | Depositor |
| Electron dose ( $e^-/\text{\AA}^2$ ) | 2.17                    | Depositor |
| Minimum defocus (nm)                 | Not provided            |           |
| Maximum defocus (nm)                 | Not provided            |           |
| Magnification                        | Not provided            |           |
| Image detector                       | FEI FALCON II (4k x 4k) | Depositor |
| Maximum map value                    | 0.653                   | Depositor |
| Minimum map value                    | -0.170                  | Depositor |
| Average map value                    | 0.000                   | Depositor |
| Map value standard deviation         | 0.014                   | Depositor |
| Recommended contour level            | 0.0562                  | Depositor |
| Map size ( $\text{\AA}$ )            | 294.0, 294.0, 294.0     | wwPDB     |
| Map dimensions                       | 280, 280, 280           | wwPDB     |
| Map angles ( $^\circ$ )              | 90.0, 90.0, 90.0        | wwPDB     |
| Pixel spacing ( $\text{\AA}$ )       | 1.05, 1.05, 1.05        | Depositor |

## 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: LHG, 3XQ, BGC, BCR, ZEX, PQN, DGD, CLA, 1DO, CL0, SF4

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     | 0.58         | 1/5985 (0.0%)  | 0.64        | 1/8158 (0.0%)  |
| 2   | B     | 0.56         | 1/6028 (0.0%)  | 0.66        | 3/8236 (0.0%)  |
| 3   | C     | 0.54         | 0/607          | 0.60        | 0/822          |
| 4   | D     | 0.40         | 0/969          | 0.59        | 0/1307         |
| 5   | E     | 0.49         | 0/502          | 0.56        | 0/680          |
| 6   | F     | 0.44         | 0/1296         | 0.63        | 0/1760         |
| 7   | I     | 0.40         | 0/235          | 0.73        | 1/321 (0.3%)   |
| 8   | J     | 0.48         | 0/321          | 0.62        | 0/437          |
| 9   | K     | 0.35         | 0/433          | 0.63        | 0/588          |
| 10  | L     | 0.36         | 0/919          | 0.57        | 0/1247         |
| 11  | M     | 0.29         | 0/205          | 0.60        | 0/277          |
| 12  | O     | 0.36         | 0/664          | 0.66        | 0/913          |
| 13  | 1     | 0.36         | 0/1395         | 0.65        | 0/1884         |
| 13  | 4     | 0.36         | 0/1403         | 0.65        | 0/1895         |
| 14  | 2     | 0.38         | 0/1407         | 0.67        | 0/1898         |
| 14  | 5     | 0.38         | 0/1407         | 0.67        | 0/1898         |
| 15  | 3     | 0.41         | 1/1337 (0.1%)  | 0.69        | 2/1817 (0.1%)  |
| All | All   | 0.49         | 3/25113 (0.0%) | 0.64        | 7/34138 (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 |
|-----|-------|---------------------|---------------------|
| 14  | 2     | 0                   | 2                   |
| 14  | 5     | 0                   | 2                   |
| All | All   | 0                   | 4                   |

All (3) bond length outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|-------|-------|-------------|----------|
| 1   | A     | 594 | TRP  | CB-CG | -6.51 | 1.38        | 1.50     |
| 2   | B     | 580 | TRP  | CB-CG | -5.68 | 1.40        | 1.50     |
| 15  | 3     | 80  | ALA  | C-N   | 5.42  | 1.44        | 1.34     |

All (7) bond angle outliers are listed below:

| Mol | Chain | Res | Type | Atoms     | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-----------|-------|-------------|----------|
| 2   | B     | 572 | ASP  | CB-CG-OD1 | 8.16  | 125.64      | 118.30   |
| 2   | B     | 514 | ASP  | CB-CG-OD1 | 7.40  | 124.96      | 118.30   |
| 1   | A     | 571 | CYS  | CA-CB-SG  | -6.53 | 102.25      | 114.00   |
| 7   | I     | 16  | LEU  | CA-CB-CG  | 5.66  | 128.31      | 115.30   |
| 15  | 3     | 96  | LEU  | CA-CB-CG  | 5.59  | 128.16      | 115.30   |
| 2   | B     | 221 | GLN  | CA-CB-CG  | 5.08  | 124.58      | 113.40   |
| 15  | 3     | 60  | MET  | CA-CB-CG  | 5.03  | 121.85      | 113.30   |

There are no chirality outliers.

All (4) planarity outliers are listed below:

| Mol | Chain | Res | Type | Group   |
|-----|-------|-----|------|---------|
| 14  | 2     | 136 | GLY  | Peptide |
| 14  | 2     | 98  | ASN  | Peptide |
| 14  | 5     | 136 | GLY  | Peptide |
| 14  | 5     | 98  | ASN  | Peptide |

## 5.2 Too-close contacts [i](#)

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

| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 1   | A     | 5798  | 0        | 5727     | 206     | 0            |
| 2   | B     | 5819  | 0        | 5648     | 166     | 0            |
| 3   | C     | 597   | 0        | 584      | 21      | 0            |
| 4   | D     | 950   | 0        | 943      | 91      | 0            |
| 5   | E     | 493   | 0        | 509      | 5       | 0            |
| 6   | F     | 1263  | 0        | 1236     | 13      | 0            |
| 7   | I     | 230   | 0        | 253      | 8       | 0            |
| 8   | J     | 312   | 0        | 327      | 15      | 0            |
| 9   | K     | 428   | 0        | 464      | 11      | 0            |
| 10  | L     | 900   | 0        | 931      | 21      | 0            |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 11  | M     | 204   | 0        | 226      | 5       | 0            |
| 12  | O     | 641   | 0        | 650      | 12      | 0            |
| 13  | 1     | 1351  | 0        | 1322     | 28      | 0            |
| 13  | 4     | 1358  | 0        | 1330     | 33      | 0            |
| 14  | 2     | 1371  | 0        | 1362     | 43      | 0            |
| 14  | 5     | 1371  | 0        | 1362     | 41      | 0            |
| 15  | 3     | 1303  | 0        | 1305     | 46      | 0            |
| 16  | A     | 65    | 0        | 71       | 59      | 0            |
| 17  | 1     | 565   | 0        | 443      | 19      | 0            |
| 17  | 2     | 600   | 0        | 466      | 26      | 0            |
| 17  | 3     | 565   | 0        | 440      | 27      | 0            |
| 17  | 4     | 505   | 0        | 384      | 23      | 0            |
| 17  | 5     | 600   | 0        | 463      | 26      | 0            |
| 17  | A     | 2310  | 0        | 2337     | 152     | 0            |
| 17  | B     | 2469  | 0        | 2499     | 158     | 0            |
| 17  | F     | 147   | 0        | 123      | 4       | 0            |
| 17  | J     | 165   | 0        | 158      | 11      | 0            |
| 17  | K     | 87    | 0        | 64       | 2       | 0            |
| 17  | L     | 172   | 0        | 164      | 6       | 0            |
| 17  | O     | 188   | 0        | 144      | 4       | 0            |
| 18  | A     | 33    | 0        | 46       | 4       | 0            |
| 18  | B     | 33    | 0        | 46       | 3       | 0            |
| 19  | A     | 89    | 0        | 127      | 6       | 0            |
| 20  | A     | 160   | 0        | 224      | 15      | 0            |
| 20  | B     | 280   | 0        | 392      | 24      | 0            |
| 20  | F     | 40    | 0        | 56       | 2       | 0            |
| 20  | I     | 40    | 0        | 56       | 4       | 0            |
| 20  | J     | 80    | 0        | 112      | 6       | 0            |
| 20  | K     | 80    | 0        | 112      | 10      | 0            |
| 20  | L     | 120   | 0        | 168      | 11      | 0            |
| 20  | O     | 40    | 0        | 56       | 5       | 0            |
| 21  | A     | 8     | 0        | 0        | 0       | 0            |
| 21  | C     | 16    | 0        | 0        | 2       | 0            |
| 22  | A     | 11    | 0        | 9        | 0       | 0            |
| 23  | B     | 66    | 0        | 96       | 5       | 0            |
| 24  | J     | 25    | 0        | 0        | 0       | 0            |
| 25  | 1     | 210   | 0        | 280      | 19      | 0            |
| 25  | 2     | 168   | 0        | 224      | 11      | 0            |
| 25  | 3     | 252   | 0        | 336      | 20      | 0            |
| 25  | 4     | 252   | 0        | 336      | 18      | 0            |
| 25  | 5     | 168   | 0        | 224      | 16      | 0            |
| 26  | 3     | 13    | 0        | 25       | 1       | 0            |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| All | All   | 35011 | 0        | 34860    | 1041    | 0            |

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 15.

All (1041) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

| Atom-1           | Atom-2           | Interatomic distance (Å) | Clash overlap (Å) |
|------------------|------------------|--------------------------|-------------------|
| 1:A:642:TRP:CD2  | 16:A:801:CL0:H56 | 1.25                     | 1.63              |
| 4:D:82:LYS:HE3   | 4:D:95:LEU:CA    | 1.36                     | 1.50              |
| 1:A:642:TRP:CE2  | 16:A:801:CL0:H56 | 1.50                     | 1.45              |
| 4:D:82:LYS:NZ    | 4:D:95:LEU:HB2   | 1.26                     | 1.44              |
| 4:D:82:LYS:CE    | 4:D:95:LEU:C     | 1.87                     | 1.43              |
| 4:D:96:HIS:HB3   | 4:D:97:PRO:CD    | 1.44                     | 1.37              |
| 1:A:647:LEU:CD1  | 16:A:801:CL0:H47 | 1.52                     | 1.35              |
| 4:D:82:LYS:CE    | 4:D:95:LEU:CB    | 2.06                     | 1.32              |
| 4:D:82:LYS:HE3   | 4:D:95:LEU:C     | 0.94                     | 1.31              |
| 1:A:642:TRP:CD2  | 16:A:801:CL0:C14 | 2.13                     | 1.30              |
| 4:D:82:LYS:CE    | 4:D:95:LEU:CA    | 2.07                     | 1.29              |
| 4:D:82:LYS:CE    | 4:D:95:LEU:HB2   | 1.62                     | 1.26              |
| 4:D:82:LYS:NZ    | 4:D:95:LEU:CB    | 1.99                     | 1.25              |
| 4:D:82:LYS:HZ1   | 4:D:95:LEU:N     | 1.34                     | 1.23              |
| 2:B:6:PRO:O      | 2:B:8:PHE:N      | 1.70                     | 1.21              |
| 2:B:5:PHE:HB3    | 2:B:6:PRO:CD     | 1.67                     | 1.21              |
| 4:D:96:HIS:CB    | 4:D:97:PRO:HD2   | 1.63                     | 1.19              |
| 4:D:82:LYS:NZ    | 4:D:95:LEU:H     | 1.42                     | 1.18              |
| 4:D:62:LYS:HE3   | 4:D:95:LEU:HD12  | 1.27                     | 1.12              |
| 1:A:642:TRP:NE1  | 16:A:801:CL0:H52 | 1.65                     | 1.12              |
| 4:D:62:LYS:HE3   | 4:D:95:LEU:CD1   | 1.79                     | 1.12              |
| 2:B:5:PHE:HB3    | 2:B:6:PRO:HD3    | 1.31                     | 1.09              |
| 4:D:96:HIS:CB    | 4:D:97:PRO:CD    | 2.19                     | 1.09              |
| 1:A:642:TRP:CE3  | 16:A:801:CL0:H56 | 1.88                     | 1.08              |
| 1:A:647:LEU:HD12 | 16:A:801:CL0:C9  | 1.83                     | 1.07              |
| 4:D:82:LYS:HB2   | 4:D:97:PRO:HG2   | 1.37                     | 1.05              |
| 2:B:5:PHE:CB     | 2:B:6:PRO:HD3    | 1.89                     | 1.03              |
| 2:B:6:PRO:C      | 2:B:8:PHE:H      | 1.58                     | 1.02              |
| 1:A:642:TRP:CE2  | 16:A:801:CL0:C14 | 2.39                     | 1.01              |
| 2:B:5:PHE:CB     | 2:B:6:PRO:CD     | 2.38                     | 1.00              |
| 1:A:647:LEU:HD12 | 16:A:801:CL0:H47 | 1.00                     | 1.00              |
| 1:A:642:TRP:CE2  | 16:A:801:CL0:H52 | 1.97                     | 0.99              |
| 4:D:82:LYS:HE3   | 4:D:95:LEU:O     | 1.60                     | 0.99              |

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| Atom-1           | Atom-2           | Interatomic distance (Å) | Clash overlap (Å) |
|------------------|------------------|--------------------------|-------------------|
| 1:A:736:THR:HG22 | 16:A:801:CL0:OBD | 1.64                     | 0.98              |
| 2:B:5:PHE:HB3    | 2:B:6:PRO:HD2    | 1.47                     | 0.96              |
| 1:A:596:TYR:OH   | 16:A:801:CL0:O2D | 1.84                     | 0.95              |
| 2:B:134:TYR:HH   | 11:M:2:ILE:N     | 1.64                     | 0.95              |
| 4:D:99:ASP:O     | 4:D:101:VAL:HG22 | 1.66                     | 0.94              |
| 4:D:82:LYS:HE2   | 4:D:95:LEU:CB    | 1.95                     | 0.94              |
| 1:A:647:LEU:CD1  | 16:A:801:CL0:C9  | 2.43                     | 0.94              |
| 4:D:82:LYS:HZ1   | 4:D:95:LEU:CA    | 1.80                     | 0.93              |
| 1:A:642:TRP:CE3  | 16:A:801:CL0:C14 | 2.48                     | 0.92              |
| 4:D:81:TYR:CE2   | 4:D:96:HIS:CD2   | 2.58                     | 0.92              |
| 2:B:5:PHE:CG     | 2:B:6:PRO:HD3    | 2.04                     | 0.92              |
| 2:B:5:PHE:O      | 2:B:7:LYS:N      | 2.03                     | 0.91              |
| 4:D:82:LYS:NZ    | 4:D:95:LEU:CA    | 2.28                     | 0.91              |
| 4:D:62:LYS:CE    | 4:D:95:LEU:CD1   | 2.49                     | 0.90              |
| 1:A:647:LEU:HD11 | 16:A:801:CL0:H47 | 1.53                     | 0.89              |
| 1:A:596:TYR:CZ   | 16:A:801:CL0:H29 | 2.07                     | 0.89              |
| 4:D:82:LYS:NZ    | 4:D:95:LEU:N     | 2.04                     | 0.89              |
| 4:D:82:LYS:HE3   | 4:D:96:HIS:N     | 1.88                     | 0.88              |
| 4:D:82:LYS:HE2   | 4:D:95:LEU:HB2   | 1.54                     | 0.88              |
| 4:D:96:HIS:CG    | 4:D:97:PRO:HD3   | 2.10                     | 0.87              |
| 4:D:81:TYR:CE2   | 4:D:96:HIS:HD2   | 1.94                     | 0.86              |
| 4:D:98:LYS:O     | 4:D:98:LYS:NZ    | 2.10                     | 0.85              |
| 4:D:62:LYS:CE    | 4:D:95:LEU:HD12  | 2.07                     | 0.84              |
| 4:D:82:LYS:HZ3   | 4:D:95:LEU:HB2   | 1.05                     | 0.84              |
| 1:A:642:TRP:NE1  | 16:A:801:CL0:C12 | 2.39                     | 0.84              |
| 4:D:82:LYS:CD    | 4:D:95:LEU:O     | 2.25                     | 0.83              |
| 4:D:82:LYS:HG2   | 4:D:95:LEU:O     | 1.79                     | 0.81              |
| 1:A:596:TYR:OH   | 16:A:801:CL0:CED | 2.28                     | 0.81              |
| 4:D:82:LYS:HD3   | 4:D:96:HIS:HB3   | 1.62                     | 0.81              |
| 4:D:82:LYS:HZ1   | 4:D:95:LEU:H     | 0.87                     | 0.81              |
| 4:D:82:LYS:HD3   | 4:D:96:HIS:CB    | 2.11                     | 0.81              |
| 2:B:5:PHE:O      | 2:B:7:LYS:HG2    | 1.80                     | 0.80              |
| 1:A:735:THR:OG1  | 16:A:801:CL0:H28 | 1.80                     | 0.80              |
| 14:2:95:ASP:O    | 14:2:99:GLN:HB2  | 1.81                     | 0.80              |
| 8:J:24:ILE:O     | 8:J:28:LEU:HB2   | 1.82                     | 0.79              |
| 4:D:96:HIS:CG    | 4:D:97:PRO:CD    | 2.66                     | 0.79              |
| 1:A:642:TRP:CG   | 16:A:801:CL0:H56 | 2.14                     | 0.79              |
| 1:A:642:TRP:CD1  | 16:A:801:CL0:H51 | 2.17                     | 0.79              |
| 1:A:647:LEU:HD22 | 16:A:801:CL0:H26 | 1.64                     | 0.79              |
| 14:5:95:ASP:O    | 14:5:99:GLN:HB2  | 1.81                     | 0.79              |
| 13:4:47:GLY:O    | 13:4:51:MET:HB2  | 1.84                     | 0.78              |

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| Atom-1            | Atom-2            | Interatomic distance (Å) | Clash overlap (Å) |
|-------------------|-------------------|--------------------------|-------------------|
| 9:K:42:PHE:HB2    | 20:K:101:BCR:H24C | 1.64                     | 0.78              |
| 4:D:62:LYS:HE3    | 4:D:95:LEU:HD13   | 1.65                     | 0.77              |
| 13:1:47:GLY:O     | 13:1:51:MET:HB2   | 1.84                     | 0.77              |
| 1:A:191:GLU:O     | 1:A:195:ASN:HB2   | 1.83                     | 0.77              |
| 2:B:6:PRO:C       | 2:B:8:PHE:N       | 2.20                     | 0.77              |
| 16:A:801:CL0:H42  | 17:B:806:CLA:HBB2 | 1.64                     | 0.77              |
| 2:B:149:LEU:O     | 2:B:153:LEU:HB2   | 1.85                     | 0.76              |
| 4:D:82:LYS:CE     | 4:D:95:LEU:N      | 2.48                     | 0.75              |
| 4:D:81:TYR:HE2    | 4:D:96:HIS:CD2    | 2.05                     | 0.74              |
| 4:D:97:PRO:O      | 4:D:99:ASP:N      | 2.21                     | 0.74              |
| 4:D:62:LYS:NZ     | 4:D:95:LEU:HD13   | 2.03                     | 0.73              |
| 1:A:393:ILE:HD13  | 17:A:827:CLA:HHC  | 1.70                     | 0.73              |
| 4:D:82:LYS:HZ1    | 4:D:95:LEU:CB     | 1.80                     | 0.73              |
| 4:D:96:HIS:CD2    | 4:D:97:PRO:HD3    | 2.22                     | 0.72              |
| 4:D:62:LYS:CE     | 4:D:95:LEU:HD13   | 2.17                     | 0.72              |
| 4:D:82:LYS:CG     | 4:D:95:LEU:O      | 2.38                     | 0.72              |
| 4:D:82:LYS:HD3    | 4:D:97:PRO:HD2    | 1.71                     | 0.71              |
| 16:A:801:CL0:H13  | 17:B:804:CLA:OBD  | 1.90                     | 0.71              |
| 4:D:82:LYS:CD     | 4:D:95:LEU:C      | 2.58                     | 0.71              |
| 13:1:147:MET:O    | 13:1:150:PHE:HB3  | 1.91                     | 0.71              |
| 13:4:147:MET:O    | 13:4:150:PHE:HB3  | 1.91                     | 0.71              |
| 16:A:801:CL0:H46  | 17:B:806:CLA:CBB  | 2.21                     | 0.70              |
| 17:B:842:CLA:HBB1 | 20:B:850:BCR:H363 | 1.72                     | 0.70              |
| 25:1:615:ZEX:H34  | 17:2:605:CLA:HBC3 | 1.73                     | 0.70              |
| 17:B:831:CLA:H52  | 20:B:846:BCR:H23C | 1.74                     | 0.70              |
| 4:D:82:LYS:CE     | 4:D:95:LEU:O      | 2.25                     | 0.69              |
| 4:D:82:LYS:CE     | 4:D:96:HIS:N      | 2.53                     | 0.69              |
| 17:A:802:CLA:HMA2 | 17:A:809:CLA:HMD2 | 1.73                     | 0.69              |
| 2:B:521:ILE:HG21  | 17:B:838:CLA:HAB  | 1.76                     | 0.68              |
| 1:A:642:TRP:CD1   | 16:A:801:CL0:C11  | 2.77                     | 0.68              |
| 17:O:204:CLA:HED2 | 17:O:204:CLA:H2A  | 1.74                     | 0.68              |
| 17:3:204:CLA:HAC1 | 17:3:207:CLA:HAB  | 1.75                     | 0.68              |
| 17:F:302:CLA:HAB  | 8:J:25:LEU:HD11   | 1.74                     | 0.68              |
| 2:B:545:MET:SD    | 3:C:66:ARG:NH2    | 2.67                     | 0.68              |
| 2:B:654:VAL:HG22  | 17:B:842:CLA:HMB3 | 1.76                     | 0.68              |
| 2:B:530:LEU:O     | 2:B:534:LYS:HB2   | 1.94                     | 0.67              |
| 1:A:642:TRP:CZ2   | 16:A:801:CL0:H56  | 2.25                     | 0.67              |
| 4:D:27:LYS:O      | 4:D:86:ILE:HB     | 1.94                     | 0.67              |
| 1:A:729:LEU:O     | 1:A:733:ILE:HB    | 1.95                     | 0.67              |
| 17:A:831:CLA:HMC2 | 17:L:204:CLA:HBB2 | 1.76                     | 0.67              |
| 14:2:177:HIS:HE1  | 25:2:617:ZEX:H14  | 1.57                     | 0.67              |

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| Atom-1            | Atom-2            | Interatomic distance (Å) | Clash overlap (Å) |
|-------------------|-------------------|--------------------------|-------------------|
| 1:A:642:TRP:CD1   | 16:A:801:CL0:C12  | 2.78                     | 0.67              |
| 1:A:642:TRP:CG    | 16:A:801:CL0:C14  | 2.76                     | 0.67              |
| 17:B:843:CLA:H2A  | 17:B:843:CLA:HED2 | 1.77                     | 0.67              |
| 2:B:615:MET:O     | 2:B:619:ARG:HB3   | 1.95                     | 0.66              |
| 14:2:93:SER:O     | 14:2:97:HIS:HB3   | 1.96                     | 0.66              |
| 2:B:491:TRP:HE1   | 17:B:836:CLA:HED1 | 1.61                     | 0.66              |
| 1:A:384:LEU:HD22  | 1:A:744:ILE:HD12  | 1.78                     | 0.65              |
| 2:B:374:GLN:HE21  | 2:B:588:VAL:HG11  | 1.61                     | 0.65              |
| 4:D:82:LYS:HE3    | 4:D:95:LEU:N      | 2.08                     | 0.65              |
| 8:J:23:GLY:HA3    | 17:J:103:CLA:HAB  | 1.77                     | 0.65              |
| 17:F:301:CLA:H2   | 8:J:13:VAL:HG12   | 1.78                     | 0.65              |
| 15:3:113:PRO:O    | 15:3:117:GLN:HB2  | 1.97                     | 0.65              |
| 14:5:93:SER:O     | 14:5:97:HIS:HB3   | 1.96                     | 0.65              |
| 1:A:45:ILE:O      | 1:A:48:LEU:HB3    | 1.97                     | 0.65              |
| 16:A:801:CL0:H42  | 17:B:806:CLA:CBB  | 2.27                     | 0.65              |
| 1:A:398:ILE:O     | 1:A:401:ALA:HB3   | 1.98                     | 0.64              |
| 1:A:54:ASP:HB3    | 1:A:57:SER:HB3    | 1.80                     | 0.64              |
| 1:A:349:LEU:HD11  | 17:A:828:CLA:HBB1 | 1.80                     | 0.64              |
| 4:D:99:ASP:O      | 4:D:101:VAL:CG2   | 2.41                     | 0.64              |
| 13:4:155:HIS:HB3  | 17:4:611:CLA:HMD3 | 1.80                     | 0.64              |
| 1:A:483:ILE:O     | 1:A:487:HIS:ND1   | 2.30                     | 0.64              |
| 2:B:46:ILE:O      | 2:B:50:HIS:ND1    | 2.29                     | 0.64              |
| 17:B:809:CLA:H162 | 17:B:831:CLA:HBB2 | 1.80                     | 0.64              |
| 4:D:43:PRO:HD3    | 4:D:68:LEU:HD12   | 1.80                     | 0.64              |
| 13:1:133:LYS:HG3  | 13:1:135:MET:H    | 1.62                     | 0.64              |
| 1:A:112:GLN:NE2   | 17:A:807:CLA:OBD  | 2.31                     | 0.64              |
| 17:A:806:CLA:HMC2 | 17:A:826:CLA:H121 | 1.80                     | 0.63              |
| 17:3:203:CLA:HAB  | 25:3:215:ZEX:H12  | 1.80                     | 0.63              |
| 13:4:133:LYS:HG3  | 13:4:135:MET:H    | 1.63                     | 0.63              |
| 17:J:102:CLA:H2A  | 17:J:102:CLA:HED2 | 1.80                     | 0.63              |
| 16:A:801:CL0:C7   | 17:B:806:CLA:HBB2 | 2.27                     | 0.63              |
| 2:B:582:LEU:HD11  | 2:B:712:THR:HG22  | 1.80                     | 0.63              |
| 20:A:846:BCR:H21C | 17:B:801:CLA:H93  | 1.80                     | 0.63              |
| 17:5:603:CLA:HMC2 | 25:5:615:ZEX:H403 | 1.80                     | 0.63              |
| 17:A:831:CLA:H143 | 17:B:842:CLA:H2   | 1.80                     | 0.62              |
| 2:B:235:PRO:HB3   | 2:B:254:THR:HG21  | 1.81                     | 0.62              |
| 1:A:327:GLY:HA3   | 19:A:842:LHG:HC32 | 1.81                     | 0.62              |
| 14:2:95:ASP:O     | 14:2:99:GLN:CB    | 2.46                     | 0.62              |
| 2:B:179:GLY:HA3   | 17:B:816:CLA:HBB1 | 1.81                     | 0.62              |
| 3:C:64:SER:OG     | 21:C:102:SF4:S3   | 2.57                     | 0.62              |
| 1:A:488:THR:HG22  | 1:A:507:GLY:HA2   | 1.81                     | 0.62              |

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| Atom-1            | Atom-2            | Interatomic distance (Å) | Clash overlap (Å) |
|-------------------|-------------------|--------------------------|-------------------|
| 10:L:89:LEU:HB3   | 20:L:205:BCR:H401 | 1.81                     | 0.62              |
| 14:5:95:ASP:O     | 14:5:99:GLN:CB    | 2.46                     | 0.62              |
| 1:A:452:TYR:HE2   | 1:A:534:ILE:HD11  | 1.64                     | 0.62              |
| 1:A:576:ARG:NH1   | 4:D:63:GLU:OE1    | 2.33                     | 0.62              |
| 1:A:168:LEU:O     | 1:A:172:ALA:HB2   | 2.00                     | 0.61              |
| 15:3:113:PRO:O    | 15:3:117:GLN:CB   | 2.48                     | 0.61              |
| 17:A:839:CLA:H151 | 20:L:201:BCR:H15C | 1.81                     | 0.61              |
| 20:B:805:BCR:H12C | 17:F:302:CLA:HBB1 | 1.81                     | 0.61              |
| 15:3:54:LYS:NZ    | 15:3:107:GLU:OE2  | 2.33                     | 0.61              |
| 17:5:606:CLA:HBB2 | 25:5:617:ZEX:H193 | 1.82                     | 0.61              |
| 1:A:449:PHE:CD1   | 16:A:801:CL0:H69  | 2.36                     | 0.61              |
| 14:2:63:CYS:HB2   | 14:2:165:GLY:HA3  | 1.82                     | 0.61              |
| 1:A:174:TRP:HB2   | 17:A:809:CLA:HMC3 | 1.82                     | 0.61              |
| 4:D:96:HIS:HB3    | 4:D:97:PRO:HD2    | 0.68                     | 0.61              |
| 17:4:601:CLA:HED3 | 17:4:609:CLA:HAB  | 1.81                     | 0.61              |
| 1:A:395:GLY:HA3   | 1:A:599:LEU:HD11  | 1.82                     | 0.61              |
| 1:A:642:TRP:CE3   | 16:A:801:CL0:H55  | 2.34                     | 0.61              |
| 1:A:642:TRP:HE1   | 16:A:801:CL0:H48  | 1.65                     | 0.61              |
| 17:A:848:CLA:H152 | 20:B:850:BCR:H16C | 1.81                     | 0.61              |
| 2:B:545:MET:HG2   | 2:B:547:ASP:H     | 1.65                     | 0.61              |
| 2:B:221:GLN:HG2   | 2:B:222:PRO:HD3   | 1.83                     | 0.60              |
| 14:5:63:CYS:HB2   | 14:5:165:GLY:HA3  | 1.82                     | 0.60              |
| 3:C:24:ASP:O      | 3:C:44:ARG:NH2    | 2.34                     | 0.60              |
| 17:A:807:CLA:H111 | 20:J:104:BCR:H332 | 1.82                     | 0.60              |
| 2:B:140:LEU:HD21  | 20:B:847:BCR:H24C | 1.82                     | 0.60              |
| 17:B:802:CLA:H193 | 17:B:812:CLA:H2   | 1.83                     | 0.60              |
| 1:A:392:TRP:CD1   | 17:A:826:CLA:HAB  | 2.37                     | 0.60              |
| 1:A:596:TYR:CZ    | 16:A:801:CL0:CED  | 2.81                     | 0.60              |
| 2:B:544:LEU:O     | 2:B:562:ARG:NH1   | 2.35                     | 0.60              |
| 2:B:652:HIS:HB3   | 17:B:802:CLA:HBD  | 1.83                     | 0.60              |
| 17:2:610:CLA:HMC3 | 25:2:614:ZEX:H402 | 1.83                     | 0.60              |
| 17:5:603:CLA:HBC1 | 17:5:606:CLA:HMC2 | 1.83                     | 0.60              |
| 1:A:11:VAL:HG11   | 17:A:808:CLA:HAA2 | 1.83                     | 0.60              |
| 4:D:82:LYS:HE2    | 4:D:95:LEU:HB3    | 1.83                     | 0.60              |
| 2:B:289:TYR:HA    | 2:B:297:HIS:H     | 1.66                     | 0.60              |
| 1:A:578:GLY:O     | 2:B:666:ARG:NH2   | 2.32                     | 0.60              |
| 15:3:167:HIS:HB3  | 17:3:212:CLA:HMD3 | 1.83                     | 0.60              |
| 25:4:617:ZEX:H8   | 17:5:605:CLA:HAA2 | 1.84                     | 0.59              |
| 14:5:19:PRO:HG3   | 14:5:25:LYS:HA    | 1.83                     | 0.59              |
| 17:B:825:CLA:HAB  | 17:B:843:CLA:HED1 | 1.84                     | 0.59              |
| 14:5:21:MET:HB3   | 14:5:23:PHE:HD2   | 1.67                     | 0.59              |

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| Atom-1            | Atom-2            | Interatomic distance (Å) | Clash overlap (Å) |
|-------------------|-------------------|--------------------------|-------------------|
| 14:2:64:ARG:NH1   | 14:2:161:GLU:OE2  | 2.36                     | 0.59              |
| 14:2:19:PRO:HG3   | 14:2:25:LYS:HA    | 1.83                     | 0.59              |
| 17:A:805:CLA:HMC3 | 17:A:806:CLA:HHB  | 1.84                     | 0.59              |
| 17:A:836:CLA:H191 | 17:L:203:CLA:H92  | 1.84                     | 0.59              |
| 8:J:27:GLU:OE1    | 8:J:30:ARG:NH2    | 2.35                     | 0.59              |
| 1:A:642:TRP:CE2   | 16:A:801:CL0:C12  | 2.80                     | 0.59              |
| 4:D:123:ASN:OD1   | 4:D:139:ARG:NH1   | 2.36                     | 0.59              |
| 1:A:200:GLY:HA3   | 17:A:811:CLA:HBB1 | 1.85                     | 0.58              |
| 14:5:89:LYS:HD2   | 14:5:92:LEU:HB2   | 1.85                     | 0.58              |
| 17:A:805:CLA:H142 | 17:A:805:CLA:H61  | 1.84                     | 0.58              |
| 2:B:529:THR:O     | 2:B:533:VAL:HB    | 2.03                     | 0.58              |
| 2:B:689:ILE:HD11  | 20:L:205:BCR:H382 | 1.84                     | 0.58              |
| 4:D:98:LYS:HZ1    | 4:D:98:LYS:C      | 2.04                     | 0.58              |
| 1:A:213:GLN:NE2   | 17:A:817:CLA:O1D  | 2.36                     | 0.58              |
| 16:A:801:CL0:CMB  | 17:B:804:CLA:HMD1 | 2.34                     | 0.58              |
| 15:3:141:GLU:HG3  | 15:3:143:SER:H    | 1.68                     | 0.58              |
| 1:A:79:ILE:HG21   | 17:A:804:CLA:HMD2 | 1.83                     | 0.58              |
| 1:A:142:GLN:NE2   | 1:A:379:ASP:OD2   | 2.37                     | 0.58              |
| 17:B:835:CLA:H201 | 17:B:839:CLA:H111 | 1.85                     | 0.58              |
| 14:2:21:MET:HB3   | 14:2:23:PHE:HD2   | 1.67                     | 0.58              |
| 1:A:319:LYS:NZ    | 1:A:339:GLU:OE2   | 2.37                     | 0.58              |
| 1:A:452:TYR:O     | 1:A:456:ASP:HB2   | 2.03                     | 0.58              |
| 5:E:2:ILE:N       | 5:E:60:GLU:OE2    | 2.36                     | 0.58              |
| 14:5:106:LEU:HB2  | 17:5:606:CLA:HMD3 | 1.86                     | 0.58              |
| 1:A:669:PHE:O     | 1:A:673:HIS:ND1   | 2.29                     | 0.57              |
| 13:4:141:ASN:ND2  | 17:4:609:CLA:O1D  | 2.37                     | 0.57              |
| 1:A:456:ASP:OD1   | 2:B:633:TYR:OH    | 2.16                     | 0.57              |
| 17:B:810:CLA:HAA1 | 7:I:11:VAL:HG22   | 1.86                     | 0.57              |
| 14:2:89:LYS:HD2   | 14:2:92:LEU:HB2   | 1.85                     | 0.57              |
| 1:A:671:GLY:O     | 1:A:674:PHE:HB3   | 2.04                     | 0.57              |
| 17:A:819:CLA:HMB2 | 17:A:823:CLA:HMA3 | 1.87                     | 0.57              |
| 17:A:824:CLA:HAB  | 20:A:845:BCR:HC7  | 1.84                     | 0.57              |
| 19:A:841:LHG:H161 | 17:J:101:CLA:HMB2 | 1.86                     | 0.57              |
| 17:1:606:CLA:HBB1 | 25:1:617:ZEX:H162 | 1.86                     | 0.57              |
| 13:1:29:ARG:HH12  | 14:2:126:ILE:HG21 | 1.69                     | 0.57              |
| 17:B:824:CLA:HMD2 | 20:B:845:BCR:HC7  | 1.87                     | 0.57              |
| 14:5:64:ARG:NH1   | 14:5:161:GLU:OE2  | 2.36                     | 0.57              |
| 17:A:831:CLA:H201 | 23:B:851:DGD:HA91 | 1.87                     | 0.57              |
| 17:B:839:CLA:H152 | 20:F:304:BCR:H24C | 1.85                     | 0.57              |
| 17:2:601:CLA:HMC1 | 15:3:130:GLY:HA2  | 1.87                     | 0.57              |
| 1:A:63:GLU:HG2    | 1:A:184:LEU:HB2   | 1.85                     | 0.57              |

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| Atom-1            | Atom-2            | Interatomic distance (Å) | Clash overlap (Å) |
|-------------------|-------------------|--------------------------|-------------------|
| 1:A:76:GLN:HB2    | 17:A:803:CLA:HMB2 | 1.87                     | 0.57              |
| 1:A:261:PHE:HA    | 17:K:103:CLA:HBC3 | 1.87                     | 0.57              |
| 1:A:713:ARG:NH2   | 5:E:43:VAL:O      | 2.38                     | 0.57              |
| 14:5:113:VAL:HG11 | 17:5:607:CLA:HBC2 | 1.86                     | 0.57              |
| 17:B:822:CLA:H71  | 17:B:827:CLA:H122 | 1.87                     | 0.56              |
| 4:D:21:CYS:SG     | 4:D:22:ALA:N      | 2.77                     | 0.56              |
| 17:2:601:CLA:HMA1 | 25:2:617:ZEX:H221 | 1.86                     | 0.56              |
| 15:3:70:GLN:NE2   | 15:3:82:THR:O     | 2.38                     | 0.56              |
| 20:A:843:BCR:H383 | 20:K:101:BCR:H10C | 1.86                     | 0.56              |
| 2:B:314:GLY:HA2   | 2:B:408:ARG:HH21  | 1.70                     | 0.56              |
| 7:I:31:GLU:HG3    | 10:L:99:VAL:HG13  | 1.86                     | 0.56              |
| 9:K:8:THR:HG23    | 9:K:10:PRO:HD2    | 1.87                     | 0.56              |
| 13:4:45:LYS:HE3   | 25:4:615:ZEX:H21  | 1.87                     | 0.56              |
| 1:A:366:HIS:ND1   | 17:A:816:CLA:OBD  | 2.38                     | 0.56              |
| 17:A:829:CLA:HBB2 | 17:A:837:CLA:HHC  | 1.87                     | 0.56              |
| 2:B:653:LEU:HG    | 17:B:842:CLA:HAB  | 1.87                     | 0.56              |
| 13:4:153:ILE:HD11 | 25:4:612:ZEX:H7   | 1.88                     | 0.56              |
| 14:5:55:LEU:HB3   | 17:5:602:CLA:HHB  | 1.87                     | 0.56              |
| 1:A:355:MET:HG3   | 17:A:823:CLA:HHB  | 1.87                     | 0.56              |
| 1:A:439:TRP:NE1   | 17:A:831:CLA:OBD  | 2.32                     | 0.56              |
| 1:A:592:LEU:HD21  | 17:A:828:CLA:HBC1 | 1.86                     | 0.56              |
| 17:4:611:CLA:HBC2 | 25:4:614:ZEX:H31  | 1.86                     | 0.56              |
| 12:O:109:PHE:HE1  | 17:O:204:CLA:HAC2 | 1.70                     | 0.56              |
| 17:B:826:CLA:HBA1 | 20:B:848:BCR:H16C | 1.86                     | 0.56              |
| 3:C:27:GLU:OE2    | 3:C:44:ARG:NH2    | 2.37                     | 0.56              |
| 17:A:817:CLA:HAB  | 17:A:817:CLA:H8   | 1.88                     | 0.56              |
| 17:A:834:CLA:HAC2 | 12:O:66:VAL:HG11  | 1.87                     | 0.56              |
| 2:B:461:ILE:HD13  | 17:B:836:CLA:HAB  | 1.88                     | 0.56              |
| 14:2:25:LYS:NZ    | 15:3:123:GLY:O    | 2.38                     | 0.56              |
| 15:3:78:LYS:HG3   | 17:3:205:CLA:HED2 | 1.87                     | 0.56              |
| 1:A:536:ALA:HB1   | 17:A:836:CLA:HMB3 | 1.87                     | 0.56              |
| 17:B:802:CLA:H201 | 17:B:812:CLA:H3A  | 1.88                     | 0.56              |
| 14:5:68:LEU:HB3   | 17:5:604:CLA:HBB2 | 1.87                     | 0.56              |
| 1:A:642:TRP:CD1   | 16:A:801:CL0:C13  | 2.89                     | 0.56              |
| 2:B:5:PHE:HB2     | 2:B:20:ARG:NH2    | 2.21                     | 0.55              |
| 15:3:142:ALA:O    | 15:3:146:ARG:N    | 2.39                     | 0.55              |
| 1:A:391:MET:O     | 1:A:395:GLY:N     | 2.39                     | 0.55              |
| 1:A:431:ASP:OD2   | 1:A:557:ARG:NH2   | 2.38                     | 0.55              |
| 17:A:806:CLA:H2   | 17:A:826:CLA:H52  | 1.89                     | 0.55              |
| 1:A:351:ILE:HG12  | 20:O:202:BCR:H371 | 1.89                     | 0.55              |
| 1:A:642:TRP:CG    | 16:A:801:CL0:C13  | 2.89                     | 0.55              |

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| Atom-1            | Atom-2            | Interatomic distance (Å) | Clash overlap (Å) |
|-------------------|-------------------|--------------------------|-------------------|
| 4:D:85:ARG:HB2    | 4:D:93:GLN:HB2    | 1.89                     | 0.55              |
| 14:2:170:ILE:HG21 | 25:3:201:ZEX:H32  | 1.88                     | 0.55              |
| 1:A:670:LEU:HD11  | 2:B:615:MET:HB2   | 1.88                     | 0.55              |
| 2:B:196:ALA:HB1   | 2:B:268:LEU:HD13  | 1.89                     | 0.55              |
| 17:B:829:CLA:H191 | 17:B:843:CLA:H152 | 1.89                     | 0.55              |
| 14:2:78:PHE:CD1   | 17:2:613:CLA:H3A  | 2.42                     | 0.55              |
| 1:A:733:ILE:HG21  | 17:A:826:CLA:HMC2 | 1.89                     | 0.54              |
| 2:B:351:TYR:O     | 2:B:505:SER:OG    | 2.26                     | 0.54              |
| 4:D:98:LYS:CE     | 4:D:98:LYS:CA     | 2.85                     | 0.54              |
| 9:K:35:GLN:O      | 9:K:39:SER:HB3    | 2.07                     | 0.54              |
| 13:4:148:LEU:HD13 | 25:4:614:ZEX:H12  | 1.89                     | 0.54              |
| 14:5:35:PRO:HD2   | 14:5:56:ARG:HH12  | 1.73                     | 0.54              |
| 8:J:25:LEU:HD12   | 20:J:104:BCR:H371 | 1.89                     | 0.54              |
| 14:5:163:ARG:NH1  | 17:5:609:CLA:O1D  | 2.41                     | 0.54              |
| 17:A:838:CLA:H203 | 17:J:101:CLA:H152 | 1.90                     | 0.54              |
| 2:B:120:HIS:NE2   | 2:B:362:ASP:OD2   | 2.39                     | 0.54              |
| 4:D:30:MET:HA     | 4:D:83:ILE:HA     | 1.90                     | 0.54              |
| 15:3:58:ILE:O     | 15:3:62:ALA:HB3   | 2.07                     | 0.54              |
| 2:B:543:LYS:HG3   | 6:F:181:THR:HG22  | 1.89                     | 0.54              |
| 17:A:815:CLA:C1D  | 17:A:816:CLA:HBB2 | 2.37                     | 0.54              |
| 17:A:828:CLA:H172 | 20:A:846:BCR:H342 | 1.89                     | 0.54              |
| 9:K:20:GLY:O      | 9:K:39:SER:OG     | 2.26                     | 0.54              |
| 14:5:97:HIS:HB2   | 25:5:617:ZEX:H171 | 1.89                     | 0.54              |
| 1:A:572:ASP:OD2   | 1:A:576:ARG:NH2   | 2.41                     | 0.54              |
| 12:O:100:TYR:HA   | 12:O:103:VAL:HG12 | 1.89                     | 0.54              |
| 17:1:606:CLA:HMB3 | 25:1:617:ZEX:H41  | 1.90                     | 0.54              |
| 14:2:35:PRO:HD2   | 14:2:56:ARG:HH12  | 1.73                     | 0.54              |
| 17:A:848:CLA:CGA  | 17:A:848:CLA:H3A  | 2.38                     | 0.54              |
| 2:B:590:PHE:HD1   | 2:B:621:TYR:HE2   | 1.56                     | 0.54              |
| 17:B:841:CLA:HAB  | 18:B:844:PQN:H151 | 1.89                     | 0.54              |
| 13:1:45:LYS:NZ    | 13:1:99:GLU:OE2   | 2.41                     | 0.54              |
| 15:3:112:VAL:HG13 | 15:3:116:ILE:HD12 | 1.89                     | 0.54              |
| 17:5:603:CLA:HMA3 | 17:5:603:CLA:H71  | 1.90                     | 0.54              |
| 1:A:596:TYR:CE2   | 16:A:801:CL0:H29  | 2.42                     | 0.54              |
| 2:B:724:ILE:O     | 2:B:728:ALA:HB3   | 2.08                     | 0.54              |
| 17:B:842:CLA:H171 | 20:L:205:BCR:H351 | 1.90                     | 0.54              |
| 2:B:436:VAL:HG22  | 17:B:804:CLA:H12  | 1.90                     | 0.54              |
| 2:B:615:MET:O     | 2:B:619:ARG:CB    | 2.56                     | 0.54              |
| 2:B:716:ILE:HD13  | 17:B:830:CLA:HMC2 | 1.89                     | 0.54              |
| 13:1:127:LEU:HD12 | 25:1:613:ZEX:H382 | 1.90                     | 0.54              |
| 14:2:169:MET:HB3  | 25:2:615:ZEX:H403 | 1.89                     | 0.54              |

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| Atom-1            | Atom-2            | Interatomic distance (Å) | Clash overlap (Å) |
|-------------------|-------------------|--------------------------|-------------------|
| 12:O:110:ALA:HB2  | 20:O:202:BCR:HC22 | 1.89                     | 0.53              |
| 14:2:57:GLU:OE2   | 14:2:61:LYS:NZ    | 2.40                     | 0.53              |
| 4:D:94:TYR:CE2    | 4:D:97:PRO:HB2    | 2.43                     | 0.53              |
| 17:3:204:CLA:HMC1 | 17:3:207:CLA:HAB  | 1.91                     | 0.53              |
| 17:B:816:CLA:H151 | 17:B:831:CLA:HMD2 | 1.90                     | 0.53              |
| 7:I:19:PRO:HG3    | 20:I:101:BCR:H14C | 1.91                     | 0.53              |
| 14:5:57:GLU:OE2   | 14:5:61:LYS:NZ    | 2.40                     | 0.53              |
| 1:A:432:ALA:O     | 1:A:436:HIS:ND1   | 2.36                     | 0.53              |
| 1:A:642:TRP:CG    | 16:A:801:CL0:H54  | 2.44                     | 0.53              |
| 18:A:840:PQN:H301 | 17:J:101:CLA:H52  | 1.90                     | 0.53              |
| 2:B:66:PHE:HZ     | 11:M:7:VAL:HG13   | 1.73                     | 0.53              |
| 15:3:45:ILE:O     | 15:3:49:ARG:HB2   | 2.09                     | 0.53              |
| 1:A:275:LYS:HG2   | 1:A:499:LEU:HD12  | 1.90                     | 0.53              |
| 1:A:295:LEU:HD11  | 17:A:813:CLA:HMC1 | 1.91                     | 0.53              |
| 1:A:557:ARG:HD2   | 2:B:674:GLU:HB3   | 1.90                     | 0.53              |
| 2:B:385:PHE:HZ    | 17:B:828:CLA:HAB  | 1.71                     | 0.53              |
| 17:4:606:CLA:HBC2 | 25:4:613:ZEX:H172 | 1.90                     | 0.53              |
| 1:A:88:TYR:HE2    | 20:A:843:BCR:HC42 | 1.74                     | 0.53              |
| 2:B:290:ARG:HE    | 2:B:294:GLY:HA2   | 1.74                     | 0.53              |
| 2:B:517:VAL:HG11  | 2:B:591:TYR:CG    | 2.44                     | 0.53              |
| 10:L:28:ARG:O     | 10:L:32:SER:HB3   | 2.09                     | 0.53              |
| 1:A:449:PHE:HD1   | 16:A:801:CL0:H69  | 1.73                     | 0.52              |
| 2:B:172:ARG:HG3   | 17:B:816:CLA:HBC2 | 1.91                     | 0.52              |
| 6:F:158:PHE:CZ    | 17:1:607:CLA:H3A  | 2.44                     | 0.52              |
| 17:A:809:CLA:H102 | 17:J:101:CLA:HBB2 | 1.92                     | 0.52              |
| 17:B:817:CLA:HMA1 | 20:B:847:BCR:H402 | 1.90                     | 0.52              |
| 1:A:437:LEU:HD11  | 1:A:547:LEU:HD12  | 1.91                     | 0.52              |
| 17:B:821:CLA:HMD2 | 17:B:831:CLA:H71  | 1.91                     | 0.52              |
| 17:2:608:CLA:HHC  | 25:2:614:ZEX:H12  | 1.92                     | 0.52              |
| 15:3:61:LEU:HD23  | 17:3:205:CLA:HHC  | 1.91                     | 0.52              |
| 13:4:45:LYS:NZ    | 13:4:99:GLU:OE2   | 2.41                     | 0.52              |
| 3:C:8:TYR:HE2     | 4:D:120:ILE:HG13  | 1.74                     | 0.52              |
| 13:1:45:LYS:HE3   | 25:1:616:ZEX:H21  | 1.92                     | 0.52              |
| 1:A:437:LEU:HD13  | 1:A:544:LEU:HA    | 1.92                     | 0.52              |
| 10:L:121:PHE:O    | 10:L:125:ALA:CB   | 2.57                     | 0.52              |
| 1:A:659:GLY:HA2   | 2:B:445:GLY:HA2   | 1.91                     | 0.52              |
| 17:B:831:CLA:H201 | 17:5:603:CLA:H143 | 1.90                     | 0.52              |
| 1:A:13:VAL:HA     | 1:A:182:PRO:HA    | 1.92                     | 0.52              |
| 7:I:25:ILE:O      | 7:I:29:ALA:HB2    | 2.10                     | 0.52              |
| 8:J:15:THR:O      | 8:J:19:PHE:CB     | 2.57                     | 0.52              |
| 10:L:127:GLY:HA3  | 20:L:206:BCR:H312 | 1.92                     | 0.52              |

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| Atom-1            | Atom-2            | Interatomic distance (Å) | Clash overlap (Å) |
|-------------------|-------------------|--------------------------|-------------------|
| 14:2:43:PRO:HD2   | 25:2:615:ZEX:H23  | 1.92                     | 0.52              |
| 1:A:28:PRO:HG3    | 6:F:143:ILE:HG21  | 1.92                     | 0.52              |
| 17:A:803:CLA:H41  | 17:A:827:CLA:H152 | 1.91                     | 0.52              |
| 20:A:846:BCR:H403 | 20:A:846:BCR:H371 | 1.92                     | 0.52              |
| 2:B:190:GLY:HA3   | 17:B:818:CLA:HAB  | 1.92                     | 0.52              |
| 13:4:167:GLN:HG2  | 17:4:611:CLA:H2A  | 1.92                     | 0.52              |
| 1:A:216:VAL:HG13  | 1:A:236:PRO:HB3   | 1.92                     | 0.52              |
| 2:B:475:LEU:O     | 2:B:481:SER:OG    | 2.26                     | 0.52              |
| 12:O:58:ALA:HB1   | 12:O:72:LEU:HB2   | 1.92                     | 0.52              |
| 13:4:145:LEU:HD13 | 17:4:609:CLA:HBC1 | 1.91                     | 0.52              |
| 1:A:406:ALA:HB1   | 1:A:584:ALA:HB1   | 1.92                     | 0.52              |
| 17:A:831:CLA:H151 | 18:B:844:PQN:H193 | 1.91                     | 0.52              |
| 17:A:839:CLA:H171 | 17:L:203:CLA:HMC3 | 1.92                     | 0.52              |
| 2:B:5:PHE:HE2     | 2:B:21:ILE:HA     | 1.75                     | 0.52              |
| 14:5:148:THR:HB   | 14:5:153:GLN:HB3  | 1.91                     | 0.52              |
| 16:A:801:CL0:H18  | 17:B:806:CLA:C4C  | 2.40                     | 0.51              |
| 17:A:804:CLA:HMA2 | 17:A:804:CLA:H2   | 1.91                     | 0.51              |
| 17:B:803:CLA:H43  | 17:B:835:CLA:HED1 | 1.92                     | 0.51              |
| 17:B:808:CLA:H43  | 17:B:809:CLA:HBB1 | 1.92                     | 0.51              |
| 7:I:10:LEU:HA     | 7:I:13:THR:HG22   | 1.92                     | 0.51              |
| 14:2:81:PHE:HZ    | 14:2:87:LYS:HB3   | 1.75                     | 0.51              |
| 14:2:109:ILE:HD12 | 17:2:605:CLA:H3A  | 1.92                     | 0.51              |
| 4:D:82:LYS:NZ     | 4:D:83:ILE:O      | 2.35                     | 0.51              |
| 1:A:455:ASN:OD1   | 1:A:468:PHE:N     | 2.43                     | 0.51              |
| 14:2:148:THR:HB   | 14:2:153:GLN:HB3  | 1.91                     | 0.51              |
| 15:3:45:ILE:O     | 15:3:49:ARG:CB    | 2.58                     | 0.51              |
| 1:A:337:LEU:HD23  | 1:A:340:ILE:HD12  | 1.91                     | 0.51              |
| 17:3:206:CLA:H2A  | 17:3:206:CLA:HED2 | 1.91                     | 0.51              |
| 2:B:4:LYS:NZ      | 2:B:4:LYS:CB      | 2.73                     | 0.51              |
| 2:B:705:LEU:HD11  | 23:B:851:DGD:HB82 | 1.93                     | 0.51              |
| 2:B:4:LYS:NZ      | 2:B:4:LYS:HB2     | 2.26                     | 0.51              |
| 15:3:172:SER:OG   | 17:3:212:CLA:O1D  | 2.28                     | 0.51              |
| 17:2:607:CLA:HBC3 | 25:2:616:ZEX:H381 | 1.92                     | 0.51              |
| 1:A:192:SER:O     | 1:A:196:HIS:ND1   | 2.27                     | 0.51              |
| 1:A:478:VAL:H     | 17:A:836:CLA:HMD1 | 1.76                     | 0.51              |
| 17:A:822:CLA:HAC1 | 20:O:202:BCR:H23C | 1.92                     | 0.51              |
| 2:B:398:PRO:HG3   | 2:B:540:ARG:HH12  | 1.76                     | 0.51              |
| 1:A:469:SER:H     | 1:A:472:ALA:HB3   | 1.75                     | 0.51              |
| 17:A:838:CLA:H202 | 8:J:18:LEU:HD22   | 1.93                     | 0.51              |
| 8:J:25:LEU:HD13   | 20:J:104:BCR:H402 | 1.92                     | 0.51              |
| 14:5:153:GLN:HA   | 14:5:156:ARG:HG2  | 1.93                     | 0.51              |

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| Atom-1            | Atom-2            | Interatomic distance (Å) | Clash overlap (Å) |
|-------------------|-------------------|--------------------------|-------------------|
| 1:A:677:ALA:HB3   | 17:B:801:CLA:HBB2 | 1.92                     | 0.50              |
| 17:A:835:CLA:H3A  | 17:A:836:CLA:HAA2 | 1.93                     | 0.50              |
| 17:B:841:CLA:HED3 | 7:I:27:PHE:HZ     | 1.76                     | 0.50              |
| 14:5:177:HIS:HE1  | 25:5:617:ZEX:H35  | 1.75                     | 0.50              |
| 1:A:325:HIS:O     | 19:A:842:LHG:O1   | 2.28                     | 0.50              |
| 4:D:82:LYS:HD3    | 4:D:96:HIS:HB2    | 1.92                     | 0.50              |
| 2:B:303:LEU:HD12  | 2:B:321:TYR:HB2   | 1.94                     | 0.50              |
| 2:B:436:VAL:HG12  | 17:J:102:CLA:HAC1 | 1.92                     | 0.50              |
| 3:C:17:CYS:SG     | 3:C:18:VAL:N      | 2.85                     | 0.50              |
| 1:A:296:ALA:HA    | 17:A:815:CLA:HMC3 | 1.94                     | 0.50              |
| 20:K:104:BCR:H371 | 20:K:104:BCR:H403 | 1.94                     | 0.50              |
| 17:1:602:CLA:H72  | 25:1:614:ZEX:H28  | 1.92                     | 0.50              |
| 17:5:608:CLA:HBB2 | 25:5:614:ZEX:H14  | 1.92                     | 0.50              |
| 17:B:839:CLA:H92  | 20:F:304:BCR:H19C | 1.94                     | 0.50              |
| 4:D:85:ARG:HD2    | 4:D:95:LEU:HD11   | 1.93                     | 0.50              |
| 1:A:293:HIS:CE1   | 1:A:297:ILE:HD11  | 2.47                     | 0.50              |
| 1:A:473:ILE:HG12  | 10:L:69:ARG:HH12  | 1.76                     | 0.50              |
| 17:A:804:CLA:HBD  | 17:A:804:CLA:HBA2 | 1.94                     | 0.50              |
| 4:D:73:ARG:NH1    | 4:D:81:TYR:OH     | 2.41                     | 0.50              |
| 10:L:36:ILE:O     | 10:L:46:ARG:NH1   | 2.45                     | 0.50              |
| 15:3:50:GLU:O     | 15:3:54:LYS:HB2   | 2.11                     | 0.50              |
| 17:3:209:CLA:HAB  | 25:3:214:ZEX:H12  | 1.93                     | 0.50              |
| 13:4:28:LEU:HD21  | 14:5:119:ILE:HG12 | 1.93                     | 0.50              |
| 13:4:48:ARG:HD2   | 17:4:608:CLA:C4C  | 2.42                     | 0.50              |
| 14:5:81:PHE:HZ    | 14:5:87:LYS:HB3   | 1.75                     | 0.50              |
| 2:B:186:LEU:O     | 2:B:189:THR:OG1   | 2.24                     | 0.50              |
| 17:B:811:CLA:H171 | 17:B:830:CLA:H161 | 1.93                     | 0.50              |
| 17:2:602:CLA:H2A  | 17:2:602:CLA:HED2 | 1.93                     | 0.50              |
| 17:3:209:CLA:H61  | 25:3:214:ZEX:H10  | 1.94                     | 0.50              |
| 9:K:34:THR:O      | 9:K:38:ALA:HB3    | 2.12                     | 0.50              |
| 17:A:831:CLA:H13  | 20:B:850:BCR:H17C | 1.94                     | 0.49              |
| 17:B:801:CLA:H152 | 17:B:804:CLA:H161 | 1.93                     | 0.49              |
| 17:B:802:CLA:H143 | 17:B:813:CLA:HBC3 | 1.94                     | 0.49              |
| 10:L:43:PRO:HA    | 10:L:46:ARG:HB3   | 1.94                     | 0.49              |
| 13:1:51:MET:HG2   | 25:1:613:ZEX:H403 | 1.94                     | 0.49              |
| 13:1:55:LEU:HD23  | 17:1:604:CLA:HMC1 | 1.93                     | 0.49              |
| 16:A:801:CL0:H13  | 17:B:804:CLA:CAD  | 2.42                     | 0.49              |
| 2:B:618:LEU:HD12  | 17:B:804:CLA:HED2 | 1.94                     | 0.49              |
| 17:A:816:CLA:H93  | 17:A:816:CLA:HMC2 | 1.95                     | 0.49              |
| 2:B:5:PHE:CE2     | 2:B:21:ILE:HA     | 2.47                     | 0.49              |
| 20:B:805:BCR:HC41 | 17:J:102:CLA:HBA1 | 1.93                     | 0.49              |

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| Atom-1            | Atom-2            | Interatomic distance (Å) | Clash overlap (Å) |
|-------------------|-------------------|--------------------------|-------------------|
| 13:1:50:ALA:HB2   | 25:1:614:ZEX:H202 | 1.94                     | 0.49              |
| 14:2:24:LEU:HD11  | 15:3:114:ALA:HB2  | 1.94                     | 0.49              |
| 17:A:810:CLA:HAB  | 17:A:818:CLA:C4C  | 2.43                     | 0.49              |
| 17:A:838:CLA:H162 | 8:J:18:LEU:HD22   | 1.95                     | 0.49              |
| 2:B:454:GLU:OE1   | 2:B:459:GLN:NE2   | 2.40                     | 0.49              |
| 20:B:848:BCR:H24C | 20:B:849:BCR:H402 | 1.93                     | 0.49              |
| 14:2:153:GLN:HA   | 14:2:156:ARG:HG2  | 1.93                     | 0.49              |
| 1:A:531:VAL:HA    | 1:A:534:ILE:HD12  | 1.95                     | 0.49              |
| 1:A:642:TRP:NE1   | 16:A:801:CL0:C11  | 2.75                     | 0.49              |
| 17:A:832:CLA:HAC2 | 17:B:812:CLA:HBB2 | 1.94                     | 0.49              |
| 17:A:848:CLA:HBB2 | 2:B:656:ALA:HB3   | 1.95                     | 0.49              |
| 3:C:7:ILE:HG12    | 3:C:65:ILE:HG12   | 1.94                     | 0.49              |
| 20:L:206:BCR:H403 | 20:L:206:BCR:H371 | 1.94                     | 0.49              |
| 14:2:55:LEU:HD22  | 17:2:602:CLA:H43  | 1.95                     | 0.49              |
| 4:D:62:LYS:NZ     | 4:D:95:LEU:CD1    | 2.72                     | 0.49              |
| 4:D:72:LEU:HB3    | 4:D:78:ILE:HG21   | 1.93                     | 0.49              |
| 17:2:610:CLA:HBB2 | 25:2:614:ZEX:H393 | 1.94                     | 0.49              |
| 1:A:359:LEU:HG    | 17:A:825:CLA:H41  | 1.94                     | 0.49              |
| 2:B:2:ALA:N       | 2:B:7:LYS:HA      | 2.28                     | 0.49              |
| 2:B:355:PRO:HG3   | 17:B:821:CLA:HBA1 | 1.95                     | 0.49              |
| 2:B:695:PRO:O     | 3:C:81:TYR:OH     | 2.31                     | 0.49              |
| 13:4:126:PRO:HD2  | 25:4:612:ZEX:H221 | 1.94                     | 0.49              |
| 17:5:611:CLA:HMC1 | 25:5:617:ZEX:H30  | 1.94                     | 0.49              |
| 1:A:650:GLN:OE1   | 1:A:743:ARG:NE    | 2.46                     | 0.49              |
| 17:B:841:CLA:H112 | 17:B:842:CLA:H121 | 1.95                     | 0.49              |
| 17:B:841:CLA:H201 | 17:B:842:CLA:H172 | 1.95                     | 0.49              |
| 14:2:77:GLU:HA    | 14:2:87:LYS:HE3   | 1.95                     | 0.49              |
| 10:L:57:PHE:CE2   | 17:L:203:CLA:HBB1 | 2.47                     | 0.49              |
| 25:3:216:ZEX:H30  | 25:3:218:ZEX:H362 | 1.95                     | 0.49              |
| 1:A:207:LEU:HD12  | 1:A:298:ALA:HB1   | 1.94                     | 0.48              |
| 14:2:55:LEU:HD13  | 17:2:602:CLA:H12  | 1.94                     | 0.48              |
| 15:3:108:ILE:HG13 | 15:3:109:VAL:HG13 | 1.95                     | 0.48              |
| 1:A:373:TYR:OH    | 17:A:827:CLA:OBD  | 2.24                     | 0.48              |
| 2:B:71:GLN:NE2    | 17:B:810:CLA:O1D  | 2.43                     | 0.48              |
| 2:B:86:PRO:O      | 2:B:114:SER:N     | 2.43                     | 0.48              |
| 2:B:219:GLY:HA3   | 17:B:818:CLA:HMD1 | 1.95                     | 0.48              |
| 2:B:454:GLU:HG2   | 6:F:94:HIS:HB3    | 1.96                     | 0.48              |
| 17:B:812:CLA:H151 | 17:B:842:CLA:H11  | 1.95                     | 0.48              |
| 14:5:77:GLU:HA    | 14:5:87:LYS:HE3   | 1.95                     | 0.48              |
| 1:A:554:ARG:HG3   | 1:A:563:ALA:HB2   | 1.94                     | 0.48              |
| 2:B:374:GLN:HE22  | 17:B:828:CLA:HMD1 | 1.78                     | 0.48              |

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| Atom-1            | Atom-2            | Interatomic distance (Å) | Clash overlap (Å) |
|-------------------|-------------------|--------------------------|-------------------|
| 17:B:826:CLA:HAB  | 17:B:833:CLA:HMD2 | 1.95                     | 0.48              |
| 15:3:60:MET:HB3   | 25:3:214:ZEX:H202 | 1.95                     | 0.48              |
| 15:3:125:LEU:HD12 | 15:3:126:PRO:HD2  | 1.96                     | 0.48              |
| 15:3:99:ILE:HD11  | 17:3:206:CLA:HMD3 | 1.95                     | 0.48              |
| 1:A:730:LEU:HD13  | 17:A:838:CLA:HMA1 | 1.95                     | 0.48              |
| 16:A:801:CL0:CMB  | 17:B:804:CLA:OBD  | 2.60                     | 0.48              |
| 17:A:807:CLA:HMA1 | 8:J:26:ILE:HD13   | 1.95                     | 0.48              |
| 17:A:839:CLA:H121 | 17:B:841:CLA:H102 | 1.94                     | 0.48              |
| 17:B:811:CLA:H122 | 17:B:830:CLA:H93  | 1.96                     | 0.48              |
| 13:1:154:ILE:HG21 | 25:1:617:ZEX:H8   | 1.95                     | 0.48              |
| 2:B:19:ARG:NH1    | 3:C:77:MET:SD     | 2.69                     | 0.48              |
| 9:K:44:HIS:HD2    | 20:K:104:BCR:HC8  | 1.79                     | 0.48              |
| 13:4:15:LEU:HA    | 13:4:36:VAL:HG11  | 1.96                     | 0.48              |
| 17:4:608:CLA:HBB2 | 25:4:612:ZEX:H34  | 1.96                     | 0.48              |
| 14:5:91:GLN:HG3   | 25:5:617:ZEX:H8   | 1.93                     | 0.48              |
| 1:A:686:GLY:HA3   | 2:B:566:CYS:HB2   | 1.95                     | 0.48              |
| 2:B:685:LEU:HD21  | 10:L:34:LEU:HD13  | 1.95                     | 0.48              |
| 2:B:175:HIS:CG    | 17:B:816:CLA:HMC2 | 2.48                     | 0.48              |
| 14:2:148:THR:HG22 | 14:2:150:GLY:H    | 1.78                     | 0.48              |
| 25:4:614:ZEX:H201 | 17:5:605:CLA:HMB1 | 1.96                     | 0.48              |
| 14:5:148:THR:HG22 | 14:5:150:GLY:H    | 1.78                     | 0.48              |
| 14:5:167:LEU:O    | 14:5:171:ALA:HB3  | 2.14                     | 0.48              |
| 16:A:801:CL0:H53  | 16:A:801:CL0:H61  | 1.56                     | 0.48              |
| 17:A:822:CLA:HMA1 | 17:O:201:CLA:HAB  | 1.95                     | 0.48              |
| 2:B:271:MET:O     | 2:B:275:HIS:ND1   | 2.37                     | 0.48              |
| 10:L:48:LEU:O     | 10:L:52:MET:HB2   | 2.14                     | 0.48              |
| 12:O:119:TYR:HA   | 12:O:122:TYR:HD2  | 1.78                     | 0.48              |
| 17:3:206:CLA:HAA2 | 25:3:217:ZEX:H25  | 1.95                     | 0.48              |
| 20:B:805:BCR:H323 | 17:B:835:CLA:HBB1 | 1.96                     | 0.47              |
| 17:B:820:CLA:HBA1 | 17:B:820:CLA:H3A  | 1.74                     | 0.47              |
| 4:D:33:SER:OG     | 4:D:54:ASP:OD1    | 2.31                     | 0.47              |
| 7:I:25:ILE:O      | 7:I:29:ALA:CB     | 2.62                     | 0.47              |
| 20:I:101:BCR:H372 | 20:L:201:BCR:H403 | 1.96                     | 0.47              |
| 14:2:58:ALA:O     | 14:2:62:HIS:ND1   | 2.36                     | 0.47              |
| 17:5:603:CLA:HMA2 | 17:5:603:CLA:H11  | 1.96                     | 0.47              |
| 17:B:816:CLA:H203 | 17:B:831:CLA:H2   | 1.95                     | 0.47              |
| 17:L:202:CLA:H3A  | 17:L:202:CLA:HBA2 | 1.53                     | 0.47              |
| 13:4:100:PHE:HD1  | 13:4:106:LYS:HE2  | 1.79                     | 0.47              |
| 1:A:359:LEU:HD22  | 17:A:817:CLA:H72  | 1.96                     | 0.47              |
| 1:A:642:TRP:CZ2   | 16:A:801:CL0:C14  | 2.94                     | 0.47              |
| 17:A:828:CLA:H121 | 19:A:841:LHG:H372 | 1.95                     | 0.47              |

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| Atom-1            | Atom-2            | Interatomic distance (Å) | Clash overlap (Å) |
|-------------------|-------------------|--------------------------|-------------------|
| 17:A:836:CLA:H11  | 17:A:837:CLA:HMD1 | 1.96                     | 0.47              |
| 2:B:255:PHE:HZ    | 17:B:820:CLA:H2   | 1.79                     | 0.47              |
| 14:2:67:MET:HB3   | 25:2:614:ZEX:H202 | 1.95                     | 0.47              |
| 17:3:212:CLA:H3A  | 17:3:212:CLA:HBA2 | 1.54                     | 0.47              |
| 17:5:612:CLA:HBC3 | 25:5:617:ZEX:H183 | 1.97                     | 0.47              |
| 1:A:640:ASN:O     | 1:A:644:ARG:HB3   | 2.14                     | 0.47              |
| 17:A:826:CLA:H3A  | 17:A:826:CLA:HBA2 | 1.58                     | 0.47              |
| 17:A:831:CLA:HAB  | 17:A:832:CLA:HBB  | 1.95                     | 0.47              |
| 17:B:837:CLA:H3A  | 17:B:837:CLA:HBA2 | 1.47                     | 0.47              |
| 17:1:606:CLA:HBB2 | 25:1:614:ZEX:H192 | 1.95                     | 0.47              |
| 1:A:40:LYS:HD2    | 6:F:139:THR:HG21  | 1.96                     | 0.47              |
| 1:A:536:ALA:HB2   | 17:A:836:CLA:HMA1 | 1.95                     | 0.47              |
| 13:1:15:LEU:HA    | 13:1:36:VAL:HG11  | 1.96                     | 0.47              |
| 15:3:14:PRO:HD3   | 15:3:21:ALA:HA    | 1.96                     | 0.47              |
| 17:4:607:CLA:H3A  | 17:4:607:CLA:HBA2 | 1.30                     | 0.47              |
| 1:A:9:VAL:HG21    | 1:A:310:THR:HB    | 1.97                     | 0.47              |
| 1:A:312:TRP:HB3   | 9:K:34:THR:HG21   | 1.96                     | 0.47              |
| 1:A:576:ARG:O     | 2:B:666:ARG:NH2   | 2.44                     | 0.47              |
| 17:A:831:CLA:H51  | 17:B:841:CLA:H71  | 1.97                     | 0.47              |
| 2:B:184:SER:O     | 2:B:188:TRP:N     | 2.47                     | 0.47              |
| 14:2:167:LEU:O    | 14:2:171:ALA:HB3  | 2.14                     | 0.47              |
| 1:A:31:PHE:HB2    | 1:A:58:HIS:CD2    | 2.50                     | 0.47              |
| 1:A:676:TRP:CG    | 16:A:801:CL0:H5   | 2.50                     | 0.47              |
| 17:A:804:CLA:H101 | 17:A:804:CLA:H13  | 1.68                     | 0.47              |
| 17:A:825:CLA:H143 | 17:A:833:CLA:H121 | 1.96                     | 0.47              |
| 2:B:26:ALA:HA     | 17:B:832:CLA:H43  | 1.96                     | 0.47              |
| 2:B:134:TYR:OH    | 11:M:2:ILE:N      | 2.40                     | 0.47              |
| 2:B:191:HIS:O     | 2:B:195:VAL:N     | 2.45                     | 0.47              |
| 17:B:841:CLA:H152 | 17:B:842:CLA:H91  | 1.97                     | 0.47              |
| 4:D:85:ARG:HG3    | 4:D:95:LEU:HG     | 1.96                     | 0.47              |
| 20:K:104:BCR:H342 | 20:K:104:BCR:H331 | 1.96                     | 0.47              |
| 20:L:201:BCR:H331 | 20:L:201:BCR:H343 | 1.96                     | 0.47              |
| 13:1:82:PHE:HA    | 13:1:85:SER:HB3   | 1.97                     | 0.47              |
| 17:1:611:CLA:H3A  | 17:1:611:CLA:HBA2 | 1.46                     | 0.47              |
| 26:3:219:1DO:H5C2 | 26:3:219:1DO:H2C1 | 1.73                     | 0.47              |
| 1:A:294:HIS:HA    | 1:A:297:ILE:HD12  | 1.97                     | 0.47              |
| 1:A:332:GLU:HB3   | 1:A:421:ASN:HA    | 1.97                     | 0.47              |
| 2:B:660:MET:O     | 2:B:664:SER:OG    | 2.32                     | 0.47              |
| 17:B:809:CLA:H191 | 23:B:851:DGD:HAG3 | 1.96                     | 0.47              |
| 17:3:203:CLA:HBB2 | 25:3:215:ZEX:H14  | 1.96                     | 0.47              |
| 1:A:392:TRP:HB3   | 17:A:826:CLA:HMC3 | 1.96                     | 0.47              |

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| Atom-1            | Atom-2            | Interatomic distance (Å) | Clash overlap (Å) |
|-------------------|-------------------|--------------------------|-------------------|
| 17:A:834:CLA:HHC  | 17:A:834:CLA:HBB1 | 1.97                     | 0.47              |
| 3:C:29:VAL:HG11   | 4:D:112:GLN:HB2   | 1.95                     | 0.47              |
| 4:D:24:THR:HG23   | 4:D:25:GLU:HG2    | 1.96                     | 0.47              |
| 25:5:614:ZEX:H25  | 25:5:614:ZEX:H28  | 1.69                     | 0.47              |
| 2:B:307:ARG:HE    | 2:B:315:LYS:HA    | 1.80                     | 0.47              |
| 17:B:816:CLA:H111 | 17:B:816:CLA:H152 | 1.45                     | 0.47              |
| 10:L:121:PHE:O    | 10:L:125:ALA:HB2  | 2.15                     | 0.47              |
| 11:M:22:VAL:HG22  | 11:M:26:LYS:HE2   | 1.97                     | 0.47              |
| 1:A:455:ASN:HD21  | 1:A:468:PHE:HB2   | 1.80                     | 0.46              |
| 17:A:848:CLA:H192 | 17:B:802:CLA:H152 | 1.97                     | 0.46              |
| 2:B:178:ALA:HB2   | 2:B:286:GLY:HA3   | 1.97                     | 0.46              |
| 10:L:59:ILE:HG13  | 10:L:132:ALA:HB3  | 1.97                     | 0.46              |
| 17:4:611:CLA:HBC1 | 25:4:616:ZEX:H403 | 1.96                     | 0.46              |
| 1:A:561:ASP:OD1   | 1:A:561:ASP:N     | 2.48                     | 0.46              |
| 17:A:819:CLA:H193 | 20:O:202:BCR:H272 | 1.95                     | 0.46              |
| 25:1:614:ZEX:H191 | 25:1:614:ZEX:H11  | 1.69                     | 0.46              |
| 17:2:609:CLA:H2A  | 17:2:609:CLA:HED2 | 1.96                     | 0.46              |
| 13:4:25:PHE:N     | 17:4:602:CLA:OBD  | 2.48                     | 0.46              |
| 2:B:578:MET:HG2   | 2:B:708:LEU:HD21  | 1.96                     | 0.46              |
| 17:B:822:CLA:HMD3 | 17:B:824:CLA:HMC3 | 1.97                     | 0.46              |
| 17:B:832:CLA:H112 | 17:B:832:CLA:H142 | 1.82                     | 0.46              |
| 4:D:82:LYS:HD3    | 4:D:95:LEU:O      | 2.13                     | 0.46              |
| 17:5:601:CLA:HMC2 | 25:5:616:ZEX:H361 | 1.97                     | 0.46              |
| 1:A:214:ILE:HA    | 1:A:218:LEU:HD12  | 1.96                     | 0.46              |
| 17:A:810:CLA:HMC1 | 20:A:844:BCR:H371 | 1.97                     | 0.46              |
| 17:A:836:CLA:H41  | 17:A:836:CLA:H62  | 1.66                     | 0.46              |
| 2:B:115:TYR:HA    | 2:B:365:THR:HG22  | 1.98                     | 0.46              |
| 17:B:814:CLA:H2A  | 17:B:814:CLA:HED3 | 1.97                     | 0.46              |
| 17:B:841:CLA:H18  | 17:B:842:CLA:H112 | 1.98                     | 0.46              |
| 17:4:601:CLA:HBA2 | 17:4:601:CLA:H3A  | 1.68                     | 0.46              |
| 17:5:601:CLA:HBB2 | 17:5:602:CLA:HBC1 | 1.96                     | 0.46              |
| 17:A:817:CLA:H43  | 17:A:817:CLA:HMB2 | 1.96                     | 0.46              |
| 17:A:833:CLA:HBC2 | 17:A:834:CLA:HBB2 | 1.98                     | 0.46              |
| 17:B:801:CLA:H3A  | 17:B:801:CLA:CGA  | 2.45                     | 0.46              |
| 13:1:95:ILE:HD11  | 25:1:616:ZEX:H193 | 1.98                     | 0.46              |
| 13:1:158:PHE:CG   | 17:1:612:CLA:HAA1 | 2.50                     | 0.46              |
| 13:4:77:PRO:O     | 13:4:81:TYR:N     | 2.49                     | 0.46              |
| 17:A:826:CLA:H18  | 20:J:104:BCR:H17C | 1.97                     | 0.46              |
| 2:B:592:TRP:HB2   | 17:B:838:CLA:HMC1 | 1.97                     | 0.46              |
| 17:B:808:CLA:HBA1 | 17:B:808:CLA:H3A  | 1.59                     | 0.46              |
| 13:1:53:ALA:HB1   | 25:1:614:ZEX:H182 | 1.98                     | 0.46              |

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| Atom-1            | Atom-2            | Interatomic distance (Å) | Clash overlap (Å) |
|-------------------|-------------------|--------------------------|-------------------|
| 13:1:135:MET:HA   | 13:1:138:ARG:HG2  | 1.98                     | 0.46              |
| 25:3:201:ZEX:H403 | 17:3:206:CLA:HBB2 | 1.96                     | 0.46              |
| 13:4:82:PHE:HA    | 13:4:85:SER:HB3   | 1.97                     | 0.46              |
| 14:5:58:ALA:O     | 14:5:62:HIS:ND1   | 2.36                     | 0.46              |
| 17:A:804:CLA:H151 | 17:A:827:CLA:HBB2 | 1.98                     | 0.46              |
| 17:A:838:CLA:H11  | 17:B:801:CLA:H202 | 1.97                     | 0.46              |
| 4:D:98:LYS:C      | 4:D:98:LYS:HE3    | 2.36                     | 0.46              |
| 1:A:431:ASP:OD1   | 1:A:552:TYR:OH    | 2.33                     | 0.46              |
| 1:A:708:PRO:HG2   | 1:A:712:PRO:HD3   | 1.97                     | 0.46              |
| 2:B:183:VAL:O     | 2:B:186:LEU:HB3   | 2.16                     | 0.46              |
| 2:B:643:VAL:HG22  | 17:B:812:CLA:HAC1 | 1.98                     | 0.46              |
| 17:B:839:CLA:H3A  | 17:B:840:CLA:OBD  | 2.14                     | 0.46              |
| 1:A:111:ALA:HB2   | 1:A:136:ILE:HD11  | 1.98                     | 0.46              |
| 2:B:6:PRO:O       | 2:B:7:LYS:C       | 2.42                     | 0.46              |
| 2:B:207:TRP:HZ2   | 17:B:817:CLA:HBA2 | 1.81                     | 0.46              |
| 14:2:119:ILE:HG22 | 14:2:120:VAL:HG13 | 1.98                     | 0.46              |
| 14:2:134:GLU:OE2  | 14:2:158:GLN:NE2  | 2.39                     | 0.46              |
| 13:4:52:LEU:HB3   | 17:4:604:CLA:HMC3 | 1.96                     | 0.46              |
| 1:A:642:TRP:CZ3   | 16:A:801:CL0:C14  | 2.97                     | 0.46              |
| 15:3:116:ILE:HA   | 15:3:119:VAL:HG12 | 1.98                     | 0.46              |
| 13:4:135:MET:HA   | 13:4:138:ARG:HG2  | 1.98                     | 0.46              |
| 1:A:493:ASN:HB3   | 12:O:67:LEU:HD12  | 1.97                     | 0.45              |
| 1:A:542:THR:HG22  | 1:A:594:TRP:HB3   | 1.98                     | 0.45              |
| 1:A:642:TRP:CD1   | 16:A:801:CL0:H54  | 2.51                     | 0.45              |
| 13:1:100:PHE:HD1  | 13:1:106:LYS:HE2  | 1.79                     | 0.45              |
| 15:3:112:VAL:O    | 15:3:116:ILE:HB   | 2.16                     | 0.45              |
| 17:B:812:CLA:H203 | 20:L:205:BCR:HC7  | 1.98                     | 0.45              |
| 9:K:35:GLN:O      | 9:K:39:SER:CB     | 2.65                     | 0.45              |
| 14:5:134:GLU:OE2  | 14:5:158:GLN:NE2  | 2.39                     | 0.45              |
| 14:5:180:LEU:HB2  | 17:5:612:CLA:HED1 | 1.98                     | 0.45              |
| 17:5:603:CLA:H41  | 17:5:603:CLA:H62  | 1.63                     | 0.45              |
| 1:A:9:VAL:HG22    | 1:A:189:ASN:HD21  | 1.81                     | 0.45              |
| 2:B:16:PRO:HG3    | 3:C:74:THR:HG22   | 1.97                     | 0.45              |
| 2:B:40:GLU:HG2    | 2:B:163:LEU:HB2   | 1.97                     | 0.45              |
| 2:B:193:VAL:HG12  | 2:B:215:PRO:HG2   | 1.98                     | 0.45              |
| 13:1:77:PRO:O     | 13:1:81:TYR:N     | 2.49                     | 0.45              |
| 15:3:22:VAL:HG12  | 15:3:24:GLU:H     | 1.81                     | 0.45              |
| 1:A:581:GLN:HE22  | 2:B:664:SER:HA    | 1.82                     | 0.45              |
| 17:A:821:CLA:HBA2 | 17:A:821:CLA:H3A  | 1.57                     | 0.45              |
| 17:A:824:CLA:H3A  | 17:A:824:CLA:HBA2 | 1.68                     | 0.45              |
| 3:C:73:THR:N      | 3:C:76:SER:OG     | 2.46                     | 0.45              |

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| Atom-1            | Atom-2            | Interatomic distance (Å) | Clash overlap (Å) |
|-------------------|-------------------|--------------------------|-------------------|
| 13:4:50:ALA:HB2   | 25:4:613:ZEX:H202 | 1.98                     | 0.45              |
| 1:A:126:ASP:OD1   | 1:A:126:ASP:N     | 2.50                     | 0.45              |
| 1:A:407:ILE:HG23  | 1:A:411:ARG:HH11  | 1.82                     | 0.45              |
| 1:A:532:HIS:CG    | 17:A:836:CLA:HED2 | 2.51                     | 0.45              |
| 17:A:826:CLA:H151 | 17:A:826:CLA:H111 | 1.86                     | 0.45              |
| 17:A:832:CLA:H203 | 17:A:832:CLA:H162 | 1.84                     | 0.45              |
| 2:B:141:LEU:HD21  | 17:B:810:CLA:HMC1 | 1.99                     | 0.45              |
| 2:B:253:LEU:HB3   | 2:B:273:HIS:HD2   | 1.81                     | 0.45              |
| 17:B:827:CLA:H71  | 17:B:829:CLA:H42  | 1.99                     | 0.45              |
| 3:C:8:TYR:CE2     | 4:D:120:ILE:HG13  | 2.51                     | 0.45              |
| 12:O:91:PRO:HG2   | 12:O:93:LEU:HG    | 1.99                     | 0.45              |
| 17:2:603:CLA:HAC1 | 17:2:606:CLA:HAB  | 1.98                     | 0.45              |
| 15:3:163:LEU:HB2  | 25:3:218:ZEX:C15  | 2.46                     | 0.45              |
| 1:A:585:TRP:NE1   | 17:A:828:CLA:HMD1 | 2.32                     | 0.45              |
| 17:A:803:CLA:HBA1 | 17:A:803:CLA:H3A  | 1.74                     | 0.45              |
| 17:A:839:CLA:H193 | 10:L:58:LEU:HD11  | 1.99                     | 0.45              |
| 2:B:87:LEU:HD21   | 2:B:106:ARG:HD2   | 1.98                     | 0.45              |
| 17:B:830:CLA:H141 | 23:B:851:DGD:HAS1 | 1.98                     | 0.45              |
| 17:B:835:CLA:H202 | 17:B:835:CLA:H161 | 1.85                     | 0.45              |
| 12:O:60:ILE:HG13  | 12:O:61:PRO:HD3   | 1.98                     | 0.45              |
| 1:A:72:ALA:HB1    | 17:A:803:CLA:HBB1 | 1.98                     | 0.45              |
| 1:A:154:GLN:O     | 1:A:158:THR:OG1   | 2.28                     | 0.45              |
| 1:A:673:HIS:O     | 1:A:676:TRP:HB3   | 2.17                     | 0.45              |
| 17:B:806:CLA:H152 | 17:B:806:CLA:H112 | 1.69                     | 0.45              |
| 17:B:833:CLA:H3A  | 17:B:834:CLA:OBD  | 2.16                     | 0.45              |
| 17:1:601:CLA:HMA2 | 25:1:615:ZEX:H161 | 1.99                     | 0.45              |
| 17:4:611:CLA:H3A  | 17:4:611:CLA:HBA2 | 1.39                     | 0.45              |
| 14:5:117:GLU:HG2  | 17:5:607:CLA:NA   | 2.32                     | 0.45              |
| 17:A:806:CLA:H172 | 17:J:101:CLA:H91  | 1.99                     | 0.45              |
| 17:A:825:CLA:H2   | 17:A:825:CLA:H61  | 1.61                     | 0.45              |
| 17:B:809:CLA:H42  | 17:B:809:CLA:HMA2 | 1.99                     | 0.45              |
| 20:B:847:BCR:H371 | 20:B:847:BCR:H392 | 1.99                     | 0.45              |
| 17:1:601:CLA:HMB1 | 14:2:120:VAL:HG11 | 1.99                     | 0.45              |
| 17:1:603:CLA:HAB  | 25:1:614:ZEX:H35  | 1.99                     | 0.45              |
| 1:A:594:TRP:HE1   | 17:A:848:CLA:CHD  | 2.30                     | 0.44              |
| 2:B:401:ASN:OD1   | 2:B:404:ASN:ND2   | 2.41                     | 0.44              |
| 2:B:505:SER:HA    | 2:B:508:LEU:HD21  | 1.98                     | 0.44              |
| 2:B:613:TYR:OH    | 2:B:619:ARG:NH2   | 2.36                     | 0.44              |
| 17:B:818:CLA:HMB3 | 20:B:847:BCR:H11C | 1.97                     | 0.44              |
| 17:B:819:CLA:CHD  | 17:B:820:CLA:HBB2 | 2.47                     | 0.44              |
| 17:2:603:CLA:HMC1 | 17:2:606:CLA:HAB  | 1.98                     | 0.44              |

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| Atom-1            | Atom-2            | Interatomic distance (Å) | Clash overlap (Å) |
|-------------------|-------------------|--------------------------|-------------------|
| 17:B:813:CLA:H71  | 10:L:80:LEU:HB3   | 1.99                     | 0.44              |
| 1:A:483:ILE:HA    | 1:A:486:ILE:HD12  | 2.00                     | 0.44              |
| 1:A:684:PHE:HB2   | 17:B:801:CLA:HBC1 | 1.99                     | 0.44              |
| 4:D:79:GLN:HA     | 4:D:81:TYR:HD1    | 1.82                     | 0.44              |
| 8:J:30:ARG:HD3    | 20:J:105:BCR:HC22 | 1.99                     | 0.44              |
| 17:2:601:CLA:H2A  | 25:3:201:ZEX:H361 | 2.00                     | 0.44              |
| 1:A:70:PHE:HA     | 1:A:73:HIS:HD2    | 1.82                     | 0.44              |
| 1:A:399:VAL:HG22  | 1:A:546:LEU:HD11  | 1.99                     | 0.44              |
| 17:A:819:CLA:H142 | 17:A:824:CLA:HBB2 | 2.00                     | 0.44              |
| 18:A:840:PQN:H111 | 20:B:805:BCR:H281 | 2.00                     | 0.44              |
| 2:B:544:LEU:HD23  | 2:B:562:ARG:HH12  | 1.82                     | 0.44              |
| 17:B:803:CLA:C1B  | 17:B:835:CLA:H41  | 2.48                     | 0.44              |
| 17:B:827:CLA:H141 | 17:B:827:CLA:H161 | 1.83                     | 0.44              |
| 4:D:32:TRP:HH2    | 4:D:50:MET:HG3    | 1.83                     | 0.44              |
| 1:A:138:SER:HA    | 17:A:826:CLA:HMA2 | 2.00                     | 0.44              |
| 1:A:222:LYS:HD3   | 1:A:249:LEU:HB3   | 1.99                     | 0.44              |
| 16:A:801:CL0:H46  | 17:B:806:CLA:HBB2 | 1.96                     | 0.44              |
| 17:A:817:CLA:H3A  | 17:A:817:CLA:HBA2 | 1.53                     | 0.44              |
| 17:A:838:CLA:H192 | 20:A:846:BCR:H272 | 1.99                     | 0.44              |
| 2:B:398:PRO:HG3   | 2:B:540:ARG:HH22  | 1.82                     | 0.44              |
| 14:5:119:ILE:HG22 | 14:5:120:VAL:HG13 | 1.98                     | 0.44              |
| 1:A:137:THR:HG21  | 1:A:741:LEU:HD22  | 2.00                     | 0.44              |
| 18:B:844:PQN:H111 | 18:B:844:PQN:H2M1 | 1.75                     | 0.44              |
| 14:2:159:ALA:HB1  | 17:2:609:CLA:HED3 | 2.00                     | 0.44              |
| 14:5:170:ILE:HG21 | 25:5:616:ZEX:H392 | 1.98                     | 0.44              |
| 1:A:430:ARG:NH2   | 1:A:555:ASN:O     | 2.34                     | 0.44              |
| 2:B:348:GLN:HE21  | 17:B:829:CLA:HMD2 | 1.82                     | 0.44              |
| 17:B:829:CLA:H143 | 17:B:829:CLA:H161 | 1.92                     | 0.44              |
| 3:C:66:ARG:HA     | 3:C:66:ARG:HD2    | 1.78                     | 0.44              |
| 13:4:144:ARG:NH1  | 25:4:614:ZEX:O3   | 2.42                     | 0.44              |
| 1:A:112:GLN:HE21  | 17:A:805:CLA:HBB2 | 1.82                     | 0.44              |
| 1:A:444:LEU:O     | 1:A:448:SER:CB    | 2.65                     | 0.44              |
| 17:A:834:CLA:HBA2 | 17:A:834:CLA:H3A  | 1.56                     | 0.44              |
| 2:B:65:LEU:HD21   | 20:B:847:BCR:H271 | 2.00                     | 0.44              |
| 2:B:666:ARG:O     | 2:B:669:TRP:N     | 2.51                     | 0.44              |
| 15:3:37:LEU:HD12  | 25:3:215:ZEX:H21  | 2.00                     | 0.44              |
| 17:3:207:CLA:HMB3 | 25:3:218:ZEX:H173 | 2.00                     | 0.44              |
| 1:A:190:VAL:HG21  | 1:A:342:THR:HG22  | 2.00                     | 0.44              |
| 2:B:722:PHE:O     | 2:B:726:SER:CB    | 2.66                     | 0.44              |
| 20:B:805:BCR:H20C | 20:B:805:BCR:H361 | 1.79                     | 0.44              |
| 5:E:32:VAL:HG12   | 5:E:34:TYR:H      | 1.83                     | 0.44              |

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| Atom-1            | Atom-2            | Interatomic distance (Å) | Clash overlap (Å) |
|-------------------|-------------------|--------------------------|-------------------|
| 13:1:145:LEU:HD13 | 17:1:609:CLA:HBC1 | 1.99                     | 0.44              |
| 17:3:210:CLA:H2A  | 17:3:210:CLA:HED3 | 2.00                     | 0.44              |
| 17:A:806:CLA:HMC3 | 17:A:807:CLA:HMD2 | 1.99                     | 0.43              |
| 17:A:831:CLA:HMA1 | 20:I:101:BCR:H272 | 2.00                     | 0.43              |
| 2:B:5:PHE:CG      | 2:B:6:PRO:CD      | 2.88                     | 0.43              |
| 2:B:65:LEU:O      | 2:B:69:ALA:HB2    | 2.18                     | 0.43              |
| 2:B:572:ASP:OD1   | 2:B:573:ALA:N     | 2.50                     | 0.43              |
| 17:B:812:CLA:H162 | 17:B:842:CLA:H42  | 1.99                     | 0.43              |
| 8:J:15:THR:O      | 8:J:19:PHE:HB3    | 2.17                     | 0.43              |
| 1:A:62:LEU:HD21   | 17:A:823:CLA:H201 | 2.00                     | 0.43              |
| 1:A:322:LEU:HD13  | 1:A:337:LEU:HB2   | 2.00                     | 0.43              |
| 3:C:16:GLN:O      | 3:C:20:ALA:CB     | 2.66                     | 0.43              |
| 13:1:29:ARG:HH22  | 14:2:126:ILE:HD13 | 1.83                     | 0.43              |
| 14:2:110:LEU:HD13 | 17:2:606:CLA:HMD2 | 2.00                     | 0.43              |
| 17:3:208:CLA:H3A  | 17:3:208:CLA:HBA2 | 1.46                     | 0.43              |
| 1:A:204:LEU:HD22  | 20:A:843:BCR:H361 | 2.00                     | 0.43              |
| 1:A:402:GLY:HA3   | 1:A:546:LEU:HD22  | 2.01                     | 0.43              |
| 17:A:808:CLA:HBA2 | 17:A:811:CLA:H192 | 2.00                     | 0.43              |
| 14:5:80:THR:HG21  | 17:5:604:CLA:HMD1 | 2.01                     | 0.43              |
| 19:A:842:LHG:H251 | 19:A:842:LHG:H111 | 2.00                     | 0.43              |
| 3:C:7:ILE:HG23    | 3:C:65:ILE:HG12   | 2.00                     | 0.43              |
| 17:1:603:CLA:H2A  | 17:1:603:CLA:HED2 | 2.00                     | 0.43              |
| 15:3:66:THR:HA    | 15:3:69:GLN:HB2   | 1.99                     | 0.43              |
| 15:3:156:ARG:HD3  | 17:3:203:CLA:HAC2 | 2.01                     | 0.43              |
| 15:3:160:ILE:HA   | 25:3:218:ZEX:H403 | 2.00                     | 0.43              |
| 13:4:134:ALA:O    | 13:4:137:ASP:HB2  | 2.18                     | 0.43              |
| 14:5:182:THR:HG22 | 14:5:184:GLN:H    | 1.83                     | 0.43              |
| 1:A:208:SER:HB3   | 20:A:843:BCR:H363 | 2.01                     | 0.43              |
| 1:A:212:HIS:O     | 1:A:216:VAL:HB    | 2.18                     | 0.43              |
| 17:A:819:CLA:H202 | 20:O:202:BCR:H381 | 2.00                     | 0.43              |
| 17:A:838:CLA:H91  | 17:A:838:CLA:H112 | 1.84                     | 0.43              |
| 2:B:647:MET:O     | 2:B:650:PHE:HB3   | 2.18                     | 0.43              |
| 17:B:831:CLA:H3A  | 17:B:831:CLA:HBA2 | 1.65                     | 0.43              |
| 17:B:833:CLA:HMC3 | 17:B:840:CLA:HBB1 | 2.01                     | 0.43              |
| 6:F:47:GLU:OE1    | 6:F:78:ARG:NH2    | 2.50                     | 0.43              |
| 8:J:15:THR:O      | 8:J:19:PHE:HB2    | 2.18                     | 0.43              |
| 1:A:9:VAL:HG13    | 1:A:189:ASN:HD21  | 1.84                     | 0.43              |
| 1:A:368:TYR:HA    | 1:A:383:GLN:NE2   | 2.33                     | 0.43              |
| 1:A:426:MET:HA    | 1:A:429:HIS:CE1   | 2.54                     | 0.43              |
| 1:A:631:ASN:ND2   | 1:A:645:ASP:OD1   | 2.51                     | 0.43              |
| 2:B:65:LEU:HD11   | 20:B:847:BCR:H271 | 2.01                     | 0.43              |

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| Atom-1            | Atom-2            | Interatomic distance (Å) | Clash overlap (Å) |
|-------------------|-------------------|--------------------------|-------------------|
| 2:B:336:LEU:HD22  | 2:B:380:LEU:HD22  | 2.00                     | 0.43              |
| 17:B:801:CLA:HMC2 | 17:B:804:CLA:HAC2 | 2.00                     | 0.43              |
| 7:I:9:ILE:HD11    | 17:4:606:CLA:HBB  | 2.01                     | 0.43              |
| 13:1:134:ALA:O    | 13:1:137:ASP:HB2  | 2.18                     | 0.43              |
| 15:3:160:ILE:HA   | 25:3:218:ZEX:H35  | 2.01                     | 0.43              |
| 20:A:843:BCR:H361 | 20:A:843:BCR:H20C | 1.83                     | 0.43              |
| 2:B:409:MET:HA    | 2:B:412:HIS:CE1   | 2.53                     | 0.43              |
| 15:3:57:ARG:NH1   | 15:3:151:GLU:OE2  | 2.51                     | 0.43              |
| 1:A:317:SER:H     | 1:A:320:GLN:HE21  | 1.67                     | 0.43              |
| 1:A:389:HIS:HE1   | 17:A:827:CLA:HBB1 | 1.83                     | 0.43              |
| 1:A:642:TRP:CZ3   | 16:A:801:CL0:H56  | 2.46                     | 0.43              |
| 2:B:271:MET:HA    | 2:B:274:HIS:HB3   | 2.01                     | 0.43              |
| 17:B:822:CLA:H152 | 17:B:822:CLA:H112 | 1.82                     | 0.43              |
| 4:D:85:ARG:HD2    | 4:D:95:LEU:CG     | 2.49                     | 0.43              |
| 25:2:615:ZEX:H10  | 25:2:615:ZEX:H7   | 1.75                     | 0.43              |
| 1:A:676:TRP:CB    | 16:A:801:CL0:H5   | 2.49                     | 0.43              |
| 17:A:817:CLA:H41  | 17:A:817:CLA:H191 | 2.01                     | 0.43              |
| 17:A:838:CLA:H102 | 17:A:838:CLA:H61  | 1.76                     | 0.43              |
| 4:D:98:LYS:HE3    | 4:D:98:LYS:HB3    | 1.60                     | 0.43              |
| 4:D:120:ILE:HG23  | 4:D:123:ASN:HD22  | 1.84                     | 0.43              |
| 11:M:19:TYR:O     | 11:M:23:LYS:HB2   | 2.19                     | 0.43              |
| 17:3:203:CLA:H72  | 17:3:204:CLA:HBB  | 2.00                     | 0.43              |
| 13:4:89:ILE:HG13  | 17:4:606:CLA:HMD1 | 1.99                     | 0.43              |
| 17:4:601:CLA:HMA2 | 25:4:614:ZEX:H161 | 2.01                     | 0.43              |
| 1:A:199:ALA:HB1   | 17:A:818:CLA:HBC3 | 2.00                     | 0.43              |
| 1:A:536:ALA:O     | 1:A:540:HIS:ND1   | 2.29                     | 0.43              |
| 2:B:152:TRP:HH2   | 14:5:126:ILE:HD11 | 1.84                     | 0.43              |
| 2:B:345:LEU:HD22  | 17:B:821:CLA:H62  | 2.00                     | 0.43              |
| 2:B:571:TRP:HZ2   | 2:B:705:LEU:HD13  | 1.83                     | 0.43              |
| 2:B:643:VAL:HG11  | 17:B:811:CLA:HAC1 | 2.00                     | 0.43              |
| 2:B:724:ILE:O     | 2:B:728:ALA:CB    | 2.66                     | 0.43              |
| 17:B:801:CLA:H62  | 17:B:801:CLA:H41  | 1.82                     | 0.43              |
| 17:B:821:CLA:H93  | 17:B:821:CLA:H61  | 1.85                     | 0.43              |
| 14:2:71:LEU:HD23  | 17:2:604:CLA:HMC1 | 2.00                     | 0.43              |
| 14:2:167:LEU:O    | 14:2:171:ALA:CB   | 2.67                     | 0.43              |
| 1:A:398:ILE:HD12  | 20:A:845:BCR:H343 | 2.00                     | 0.42              |
| 1:A:482:TRP:HB2   | 12:O:92:LYS:HD3   | 2.01                     | 0.42              |
| 17:A:831:CLA:HBB2 | 10:L:65:LEU:HD22  | 2.00                     | 0.42              |
| 2:B:323:THR:HG21  | 2:B:401:ASN:HD21  | 1.84                     | 0.42              |
| 17:B:841:CLA:H151 | 17:B:842:CLA:H121 | 2.01                     | 0.42              |
| 4:D:62:LYS:HZ1    | 4:D:95:LEU:HD13   | 1.80                     | 0.42              |

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| Atom-1            | Atom-2            | Interatomic distance (Å) | Clash overlap (Å) |
|-------------------|-------------------|--------------------------|-------------------|
| 9:K:33:LEU:HD13   | 15:3:37:LEU:HB3   | 2.00                     | 0.42              |
| 15:3:96:LEU:HA    | 15:3:99:ILE:HG12  | 2.00                     | 0.42              |
| 13:4:79:HIS:CG    | 25:4:616:ZEX:H21  | 2.54                     | 0.42              |
| 1:A:91:GLY:O      | 1:A:95:SER:OG     | 2.30                     | 0.42              |
| 2:B:295:ILE:HG22  | 17:B:824:CLA:HMD1 | 2.00                     | 0.42              |
| 2:B:597:LEU:HD21  | 2:B:727:THR:HG22  | 2.01                     | 0.42              |
| 3:C:12:ILE:HG21   | 5:E:52:ASN:HD21   | 1.84                     | 0.42              |
| 14:5:166:ARG:HB3  | 25:5:616:ZEX:H383 | 2.00                     | 0.42              |
| 1:A:200:GLY:HA2   | 17:A:818:CLA:HBC1 | 2.00                     | 0.42              |
| 2:B:33:SER:O      | 23:B:851:DGD:O5E  | 2.37                     | 0.42              |
| 2:B:629:LEU:HD12  | 2:B:725:ALA:HB3   | 2.00                     | 0.42              |
| 20:J:105:BCR:H20C | 20:J:105:BCR:H361 | 1.84                     | 0.42              |
| 13:1:89:ILE:HG13  | 17:1:606:CLA:HMD1 | 2.02                     | 0.42              |
| 14:5:167:LEU:O    | 14:5:171:ALA:CB   | 2.67                     | 0.42              |
| 1:A:418:ASN:HD21  | 1:A:423:LEU:HD22  | 1.85                     | 0.42              |
| 17:A:806:CLA:H171 | 17:A:806:CLA:H13  | 1.86                     | 0.42              |
| 17:A:834:CLA:HMD2 | 12:O:63:ASN:HD21  | 1.84                     | 0.42              |
| 2:B:572:ASP:HA    | 2:B:575:TYR:HB3   | 2.02                     | 0.42              |
| 2:B:714:GLY:O     | 2:B:718:THR:OG1   | 2.23                     | 0.42              |
| 17:B:806:CLA:H111 | 17:B:806:CLA:H72  | 1.73                     | 0.42              |
| 17:B:828:CLA:HBA2 | 17:B:828:CLA:H3A  | 1.70                     | 0.42              |
| 17:B:843:CLA:H41  | 17:B:843:CLA:H61  | 1.82                     | 0.42              |
| 3:C:26:LEU:HA     | 3:C:41:SER:O      | 2.19                     | 0.42              |
| 20:I:101:BCR:H20C | 20:I:101:BCR:H361 | 1.85                     | 0.42              |
| 17:2:612:CLA:H3A  | 17:2:612:CLA:HBA2 | 1.65                     | 0.42              |
| 1:A:392:TRP:NE1   | 17:A:826:CLA:HAB  | 2.34                     | 0.42              |
| 2:B:207:TRP:HB3   | 17:5:606:CLA:HED2 | 2.01                     | 0.42              |
| 2:B:654:VAL:O     | 2:B:657:THR:OG1   | 2.27                     | 0.42              |
| 20:B:805:BCR:H12C | 17:F:302:CLA:CBB  | 2.47                     | 0.42              |
| 17:B:836:CLA:H2   | 17:B:837:CLA:HMB2 | 2.01                     | 0.42              |
| 4:D:95:LEU:N      | 4:D:95:LEU:HD23   | 2.34                     | 0.42              |
| 20:K:101:BCR:H20C | 20:K:101:BCR:H361 | 1.82                     | 0.42              |
| 10:L:83:ILE:HA    | 10:L:86:ILE:HB    | 2.00                     | 0.42              |
| 15:3:113:PRO:O    | 15:3:117:GLN:HB3  | 2.20                     | 0.42              |
| 1:A:53:HIS:CD2    | 17:A:803:CLA:HBB2 | 2.53                     | 0.42              |
| 17:A:808:CLA:HBB2 | 17:A:811:CLA:HMA3 | 2.01                     | 0.42              |
| 2:B:37:MET:SD     | 2:B:45:LYS:NZ     | 2.88                     | 0.42              |
| 20:B:848:BCR:H342 | 20:B:848:BCR:H331 | 2.01                     | 0.42              |
| 17:1:601:CLA:H3A  | 17:1:601:CLA:HBA2 | 1.75                     | 0.42              |
| 14:5:67:MET:HB3   | 25:5:614:ZEX:H202 | 2.02                     | 0.42              |
| 1:A:384:LEU:O     | 1:A:387:PHE:HB3   | 2.20                     | 0.42              |

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| Atom-1            | Atom-2            | Interatomic distance (Å) | Clash overlap (Å) |
|-------------------|-------------------|--------------------------|-------------------|
| 17:A:818:CLA:HHD  | 17:A:818:CLA:HAC1 | 1.88                     | 0.42              |
| 17:A:830:CLA:H43  | 10:L:27:THR:HG23  | 2.02                     | 0.42              |
| 17:A:848:CLA:HAC1 | 17:A:848:CLA:HMC1 | 1.90                     | 0.42              |
| 2:B:146:VAL:HG13  | 17:B:814:CLA:HAC2 | 2.01                     | 0.42              |
| 17:B:802:CLA:H18  | 17:B:813:CLA:HMC2 | 2.00                     | 0.42              |
| 14:2:71:LEU:HG    | 17:2:604:CLA:HAC1 | 2.02                     | 0.42              |
| 14:2:123:PRO:HA   | 14:2:126:ILE:HD12 | 2.01                     | 0.42              |
| 17:2:602:CLA:H2   | 25:2:615:ZEX:H382 | 2.02                     | 0.42              |
| 25:3:218:ZEX:H15  | 25:3:218:ZEX:H201 | 1.73                     | 0.42              |
| 13:4:147:MET:HB3  | 25:4:613:ZEX:H403 | 2.01                     | 0.42              |
| 17:A:806:CLA:H3A  | 17:A:806:CLA:HBA2 | 1.44                     | 0.42              |
| 17:A:823:CLA:H193 | 17:A:823:CLA:H161 | 1.86                     | 0.42              |
| 2:B:94:PRO:HB2    | 17:B:813:CLA:HAA1 | 2.00                     | 0.42              |
| 2:B:442:VAL:HG11  | 2:B:613:TYR:CZ    | 2.54                     | 0.42              |
| 12:O:94:ASP:HB3   | 12:O:98:TRP:HD1   | 1.84                     | 0.42              |
| 17:1:602:CLA:HMC2 | 25:1:614:ZEX:H32  | 2.01                     | 0.42              |
| 14:2:182:THR:HG22 | 14:2:184:GLN:H    | 1.83                     | 0.42              |
| 1:A:295:LEU:HD23  | 1:A:295:LEU:HA    | 1.90                     | 0.42              |
| 17:A:811:CLA:H141 | 17:A:811:CLA:H162 | 1.89                     | 0.42              |
| 17:A:825:CLA:H162 | 17:A:825:CLA:H121 | 1.76                     | 0.42              |
| 17:A:831:CLA:C3B  | 17:A:832:CLA:HMB2 | 2.50                     | 0.42              |
| 17:B:830:CLA:H142 | 17:B:832:CLA:H192 | 2.00                     | 0.42              |
| 17:B:838:CLA:HMB2 | 17:B:840:CLA:HED1 | 2.02                     | 0.42              |
| 13:4:51:MET:SD    | 17:4:608:CLA:HAB  | 2.60                     | 0.42              |
| 17:5:603:CLA:H62  | 17:5:603:CLA:H102 | 1.61                     | 0.42              |
| 1:A:46:TRP:HB3    | 19:A:841:LHG:HC81 | 2.01                     | 0.42              |
| 1:A:157:VAL:HG21  | 17:A:814:CLA:HAA2 | 2.01                     | 0.42              |
| 17:A:823:CLA:H93  | 17:A:823:CLA:H61  | 1.87                     | 0.42              |
| 20:A:846:BCR:H24C | 17:J:102:CLA:HMC2 | 2.01                     | 0.42              |
| 2:B:71:GLN:OE1    | 2:B:90:ALA:N      | 2.40                     | 0.42              |
| 17:B:820:CLA:H43  | 17:B:836:CLA:HED2 | 2.01                     | 0.42              |
| 20:B:848:BCR:H15C | 20:B:848:BCR:H351 | 1.85                     | 0.42              |
| 13:1:147:MET:HB3  | 25:1:614:ZEX:H403 | 2.01                     | 0.42              |
| 14:2:67:MET:HB2   | 17:2:608:CLA:HMC3 | 2.02                     | 0.42              |
| 14:5:97:HIS:CD2   | 25:5:617:ZEX:H21  | 2.54                     | 0.42              |
| 17:A:812:CLA:H3A  | 17:A:812:CLA:HBA1 | 1.69                     | 0.41              |
| 17:A:817:CLA:H203 | 17:A:825:CLA:HAA1 | 2.01                     | 0.41              |
| 17:A:848:CLA:HED3 | 17:A:848:CLA:HBD  | 1.93                     | 0.41              |
| 2:B:5:PHE:CD2     | 2:B:6:PRO:HD3     | 2.49                     | 0.41              |
| 17:B:821:CLA:H3A  | 17:B:821:CLA:HBA2 | 1.43                     | 0.41              |
| 6:F:163:SER:HA    | 6:F:166:GLN:HG2   | 2.01                     | 0.41              |

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| Atom-1            | Atom-2            | Interatomic distance (Å) | Clash overlap (Å) |
|-------------------|-------------------|--------------------------|-------------------|
| 1:A:285:LEU:HD13  | 17:A:816:CLA:HMA2 | 2.02                     | 0.41              |
| 1:A:534:ILE:HG21  | 1:A:534:ILE:HD13  | 1.88                     | 0.41              |
| 1:A:676:TRP:CD1   | 16:A:801:CL0:H8   | 2.55                     | 0.41              |
| 1:A:689:TYR:CE1   | 2:B:534:LYS:HD2   | 2.55                     | 0.41              |
| 17:A:805:CLA:H8   | 17:A:805:CLA:H121 | 1.85                     | 0.41              |
| 17:A:805:CLA:HMB1 | 17:A:807:CLA:HED2 | 2.03                     | 0.41              |
| 17:A:816:CLA:HBA2 | 17:A:816:CLA:H3A  | 1.43                     | 0.41              |
| 17:A:833:CLA:H61  | 17:A:833:CLA:H41  | 1.90                     | 0.41              |
| 17:A:834:CLA:HAB  | 20:A:845:BCR:H282 | 2.03                     | 0.41              |
| 6:F:44:GLU:HA     | 6:F:79:PHE:CE2    | 2.55                     | 0.41              |
| 9:K:50:ILE:HG13   | 17:K:102:CLA:HMC3 | 2.02                     | 0.41              |
| 25:3:201:ZEX:H362 | 25:3:201:ZEX:H27  | 1.85                     | 0.41              |
| 17:4:608:CLA:HAC2 | 25:4:615:ZEX:H42  | 2.01                     | 0.41              |
| 17:5:608:CLA:CBB  | 25:5:614:ZEX:H12  | 2.50                     | 0.41              |
| 1:A:293:HIS:NE2   | 1:A:297:ILE:HD11  | 2.36                     | 0.41              |
| 1:A:373:TYR:HD2   | 1:A:376:LEU:HD22  | 1.85                     | 0.41              |
| 1:A:647:LEU:HD22  | 16:A:801:CL0:CMD  | 2.41                     | 0.41              |
| 17:A:815:CLA:HBB2 | 20:K:104:BCR:HC31 | 2.02                     | 0.41              |
| 17:A:819:CLA:H62  | 17:A:819:CLA:H2   | 1.79                     | 0.41              |
| 17:A:833:CLA:H18  | 17:A:837:CLA:H91  | 2.02                     | 0.41              |
| 2:B:688:LEU:HD21  | 10:L:36:ILE:HG21  | 2.00                     | 0.41              |
| 17:B:810:CLA:H161 | 17:B:810:CLA:H122 | 1.77                     | 0.41              |
| 3:C:41:SER:HB2    | 4:D:112:GLN:HG3   | 2.01                     | 0.41              |
| 10:L:110:SER:OG   | 10:L:111:VAL:N    | 2.53                     | 0.41              |
| 15:3:36:PRO:HD2   | 25:3:215:ZEX:H3   | 2.03                     | 0.41              |
| 25:4:613:ZEX:H25  | 25:4:613:ZEX:H28  | 1.78                     | 0.41              |
| 14:5:123:PRO:HA   | 14:5:126:ILE:HD12 | 2.01                     | 0.41              |
| 1:A:33:ARG:O      | 1:A:37:LYS:NZ     | 2.45                     | 0.41              |
| 1:A:73:HIS:ND1    | 17:A:803:CLA:HAA1 | 2.36                     | 0.41              |
| 1:A:149:ILE:HG23  | 1:A:154:GLN:HB2   | 2.02                     | 0.41              |
| 17:A:848:CLA:H92  | 17:A:848:CLA:H62  | 1.89                     | 0.41              |
| 17:B:829:CLA:H141 | 17:B:829:CLA:H203 | 2.01                     | 0.41              |
| 17:B:836:CLA:H2   | 17:B:836:CLA:H61  | 1.78                     | 0.41              |
| 6:F:44:GLU:HA     | 6:F:79:PHE:HE2    | 1.85                     | 0.41              |
| 17:O:205:CLA:H3A  | 17:O:205:CLA:HBA1 | 1.37                     | 0.41              |
| 15:3:107:GLU:HG2  | 17:3:208:CLA:NB   | 2.35                     | 0.41              |
| 17:4:602:CLA:HAC2 | 25:4:614:ZEX:H22  | 2.03                     | 0.41              |
| 16:A:801:CL0:C9   | 17:B:806:CLA:HBB2 | 2.50                     | 0.41              |
| 17:A:813:CLA:HED2 | 17:A:813:CLA:HBD  | 1.89                     | 0.41              |
| 17:A:820:CLA:HBA1 | 17:A:820:CLA:H3A  | 1.84                     | 0.41              |
| 18:A:840:PQN:H292 | 18:A:840:PQN:H261 | 1.86                     | 0.41              |

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| Atom-1            | Atom-2            | Interatomic distance (Å) | Clash overlap (Å) |
|-------------------|-------------------|--------------------------|-------------------|
| 2:B:281:ILE:HG22  | 17:B:822:CLA:HMC1 | 2.02                     | 0.41              |
| 2:B:351:TYR:HA    | 2:B:366:GLN:HE21  | 1.85                     | 0.41              |
| 2:B:580:TRP:HE1   | 17:B:801:CLA:C1D  | 2.33                     | 0.41              |
| 17:B:802:CLA:OBD  | 17:B:806:CLA:HMB3 | 2.21                     | 0.41              |
| 17:B:835:CLA:H62  | 17:B:835:CLA:H2   | 1.69                     | 0.41              |
| 17:B:842:CLA:HBC3 | 20:B:850:BCR:H21C | 2.01                     | 0.41              |
| 17:1:610:CLA:HMC2 | 25:1:613:ZEX:H11  | 2.01                     | 0.41              |
| 13:4:68:PHE:HZ    | 17:4:604:CLA:HBD  | 1.85                     | 0.41              |
| 1:A:191:GLU:HB3   | 1:A:308:TYR:HB3   | 2.01                     | 0.41              |
| 1:A:604:PHE:HE2   | 16:A:801:CL0:H43  | 1.85                     | 0.41              |
| 17:A:806:CLA:H161 | 17:B:801:CLA:H191 | 2.02                     | 0.41              |
| 17:A:830:CLA:H2   | 17:L:203:CLA:H72  | 2.03                     | 0.41              |
| 2:B:29:HIS:HD1    | 17:B:832:CLA:H12  | 1.85                     | 0.41              |
| 2:B:276:LEU:HD21  | 17:B:819:CLA:C3B  | 2.50                     | 0.41              |
| 17:B:809:CLA:H152 | 17:B:809:CLA:H111 | 1.80                     | 0.41              |
| 3:C:53:ARG:N      | 21:C:101:SF4:S4   | 2.93                     | 0.41              |
| 17:J:101:CLA:H92  | 17:J:101:CLA:H62  | 1.77                     | 0.41              |
| 17:5:607:CLA:H3A  | 17:5:607:CLA:O2A  | 2.20                     | 0.41              |
| 2:B:169:ASN:OD1   | 17:B:827:CLA:HHD  | 2.21                     | 0.41              |
| 4:D:85:ARG:CG     | 4:D:95:LEU:HG     | 2.50                     | 0.41              |
| 6:F:46:ASN:O      | 6:F:50:THR:CB     | 2.69                     | 0.41              |
| 17:2:602:CLA:H171 | 17:2:602:CLA:H13  | 1.81                     | 0.41              |
| 15:3:30:SER:OG    | 17:3:203:CLA:O1D  | 2.38                     | 0.41              |
| 17:3:203:CLA:H13  | 25:3:215:ZEX:H193 | 2.01                     | 0.41              |
| 13:4:68:PHE:CZ    | 17:4:604:CLA:HBD  | 2.56                     | 0.41              |
| 17:A:829:CLA:HMC3 | 17:A:837:CLA:HBB1 | 2.02                     | 0.41              |
| 2:B:422:TRP:NE1   | 17:B:835:CLA:OBD  | 2.48                     | 0.41              |
| 14:5:30:LEU:HB3   | 14:5:47:THR:HG22  | 2.03                     | 0.41              |
| 1:A:235:LEU:HB3   | 1:A:237:HIS:HB3   | 2.03                     | 0.41              |
| 17:A:830:CLA:HMB1 | 17:A:839:CLA:HAA2 | 2.02                     | 0.41              |
| 20:A:846:BCR:H382 | 17:B:804:CLA:H142 | 2.02                     | 0.41              |
| 2:B:4:LYS:HB2     | 2:B:4:LYS:HZ2     | 1.86                     | 0.41              |
| 2:B:88:ALA:HB3    | 2:B:112:ASN:HB2   | 2.03                     | 0.41              |
| 2:B:241:VAL:HG12  | 2:B:246:GLN:HE21  | 1.85                     | 0.41              |
| 2:B:324:LEU:HD22  | 17:B:827:CLA:HBC2 | 2.02                     | 0.41              |
| 2:B:347:ALA:HB2   | 2:B:373:HIS:HB2   | 2.02                     | 0.41              |
| 2:B:408:ARG:O     | 2:B:412:HIS:ND1   | 2.53                     | 0.41              |
| 2:B:461:ILE:HD11  | 17:B:838:CLA:H43  | 2.03                     | 0.41              |
| 2:B:465:SER:HB2   | 2:B:495:TRP:HH2   | 1.85                     | 0.41              |
| 2:B:722:PHE:O     | 2:B:726:SER:HB3   | 2.21                     | 0.41              |
| 17:B:802:CLA:H3A  | 17:B:802:CLA:O1A  | 2.20                     | 0.41              |

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| Atom-1            | Atom-2            | Interatomic distance (Å) | Clash overlap (Å) |
|-------------------|-------------------|--------------------------|-------------------|
| 17:B:811:CLA:H121 | 17:B:830:CLA:H162 | 2.02                     | 0.41              |
| 17:B:831:CLA:H2A  | 17:B:831:CLA:HED3 | 2.03                     | 0.41              |
| 17:B:839:CLA:H142 | 17:B:839:CLA:H112 | 1.90                     | 0.41              |
| 4:D:78:ILE:H      | 4:D:78:ILE:HG13   | 1.82                     | 0.41              |
| 8:J:18:LEU:HA     | 8:J:18:LEU:HD23   | 1.85                     | 0.41              |
| 9:K:40:MET:O      | 9:K:44:HIS:HB2    | 2.21                     | 0.41              |
| 20:K:101:BCR:H15C | 20:K:101:BCR:H351 | 1.80                     | 0.41              |
| 20:L:205:BCR:H24C | 20:L:205:BCR:H371 | 1.85                     | 0.41              |
| 17:2:601:CLA:HAB  | 15:3:106:PHE:CE1  | 2.56                     | 0.41              |
| 15:3:56:GLY:O     | 15:3:60:MET:HG2   | 2.20                     | 0.41              |
| 17:3:203:CLA:H2   | 25:3:215:ZEX:H183 | 2.02                     | 0.41              |
| 13:4:26:ASP:OD2   | 13:4:31:SER:N     | 2.45                     | 0.41              |
| 13:4:118:LYS:HD2  | 13:4:119:PRO:HD2  | 2.02                     | 0.41              |
| 1:A:69:ILE:HD11   | 1:A:73:HIS:HE2    | 1.86                     | 0.41              |
| 1:A:85:SER:HB3    | 1:A:162:GLY:HA3   | 2.03                     | 0.41              |
| 1:A:299:VAL:HA    | 20:K:101:BCR:H352 | 2.03                     | 0.41              |
| 1:A:380:TYR:O     | 1:A:384:LEU:N     | 2.52                     | 0.41              |
| 17:A:838:CLA:HAB  | 17:B:801:CLA:H151 | 2.03                     | 0.41              |
| 17:A:848:CLA:H111 | 17:A:848:CLA:H143 | 1.88                     | 0.41              |
| 2:B:228:TRP:HB3   | 17:B:819:CLA:H3A  | 2.01                     | 0.41              |
| 6:F:116:TYR:HA    | 6:F:160:TRP:HZ2   | 1.85                     | 0.41              |
| 20:K:101:BCR:H353 | 20:K:104:BCR:HC32 | 2.03                     | 0.41              |
| 15:3:98:GLN:HE22  | 17:3:206:CLA:C1A  | 2.34                     | 0.41              |
| 1:A:352:ASN:ND2   | 17:A:803:CLA:OBD  | 2.53                     | 0.40              |
| 1:A:706:VAL:HG22  | 6:F:126:ARG:HG3   | 2.03                     | 0.40              |
| 17:A:810:CLA:H3A  | 17:A:810:CLA:HBA2 | 1.35                     | 0.40              |
| 17:A:817:CLA:HAB  | 17:A:817:CLA:H121 | 2.03                     | 0.40              |
| 17:B:829:CLA:H93  | 20:B:849:BCR:H17C | 2.03                     | 0.40              |
| 17:B:831:CLA:H171 | 20:B:846:BCR:H352 | 2.03                     | 0.40              |
| 10:L:96:TYR:HB2   | 20:L:205:BCR:H361 | 2.03                     | 0.40              |
| 14:5:177:HIS:CE1  | 25:5:617:ZEX:H35  | 2.56                     | 0.40              |
| 17:A:815:CLA:H62  | 17:A:815:CLA:H41  | 1.52                     | 0.40              |
| 18:A:840:PQN:H292 | 18:A:840:PQN:H243 | 2.03                     | 0.40              |
| 2:B:446:ASN:ND2   | 2:B:449:LYS:HE3   | 2.36                     | 0.40              |
| 4:D:81:TYR:OH     | 4:D:96:HIS:NE2    | 2.47                     | 0.40              |
| 4:D:85:ARG:HD2    | 4:D:95:LEU:CD1    | 2.50                     | 0.40              |
| 13:1:26:ASP:OD2   | 13:1:31:SER:N     | 2.45                     | 0.40              |
| 13:1:49:VAL:HG11  | 17:1:607:CLA:HMD3 | 2.02                     | 0.40              |
| 15:3:63:PHE:O     | 15:3:66:THR:OG1   | 2.29                     | 0.40              |
| 2:B:385:PHE:CZ    | 17:B:828:CLA:HAB  | 2.54                     | 0.40              |
| 17:B:816:CLA:H162 | 17:B:816:CLA:H192 | 1.88                     | 0.40              |

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| Atom-1            | Atom-2            | Interatomic distance (Å) | Clash overlap (Å) |
|-------------------|-------------------|--------------------------|-------------------|
| 17:B:832:CLA:H171 | 17:B:842:CLA:HMA2 | 2.03                     | 0.40              |
| 17:1:612:CLA:HMC1 | 25:1:617:ZEX:H402 | 2.03                     | 0.40              |
| 14:2:38:GLU:H     | 14:2:163:ARG:HH22 | 1.70                     | 0.40              |
| 14:2:47:THR:OG1   | 17:2:602:CLA:O1A  | 2.39                     | 0.40              |
| 1:A:117:ILE:HG21  | 1:A:117:ILE:HD13  | 1.89                     | 0.40              |
| 1:A:341:LEU:HD23  | 1:A:341:LEU:HA    | 1.90                     | 0.40              |
| 1:A:676:TRP:NE1   | 16:A:801:CL0:O1A  | 2.54                     | 0.40              |
| 2:B:149:LEU:O     | 2:B:153:LEU:CB    | 2.62                     | 0.40              |
| 2:B:379:LEU:HD13  | 17:B:809:CLA:H122 | 2.03                     | 0.40              |
| 2:B:454:GLU:HG3   | 6:F:31:LEU:HD11   | 2.03                     | 0.40              |
| 17:B:808:CLA:H142 | 17:B:827:CLA:HBD  | 2.03                     | 0.40              |
| 3:C:30:PRO:HG3    | 4:D:108:LYS:HG2   | 2.03                     | 0.40              |
| 13:1:118:LYS:HD2  | 13:1:119:PRO:HD2  | 2.02                     | 0.40              |
| 13:4:91:ILE:HD12  | 13:4:91:ILE:HA    | 1.98                     | 0.40              |
| 1:A:88:TYR:HE1    | 1:A:144:TRP:HE1   | 1.69                     | 0.40              |
| 1:A:531:VAL:HG13  | 1:A:534:ILE:HD12  | 2.02                     | 0.40              |
| 17:B:806:CLA:H192 | 17:B:806:CLA:H162 | 1.89                     | 0.40              |
| 17:B:830:CLA:CGA  | 17:B:830:CLA:H3A  | 2.48                     | 0.40              |
| 5:E:8:VAL:HG11    | 5:E:58:LEU:HD12   | 2.02                     | 0.40              |
| 13:1:21:GLY:O     | 13:1:144:ARG:NH2  | 2.54                     | 0.40              |
| 15:3:58:ILE:O     | 15:3:62:ALA:CB    | 2.69                     | 0.40              |
| 15:3:84:LEU:HA    | 15:3:84:LEU:HD12  | 1.90                     | 0.40              |
| 15:3:96:LEU:HD21  | 17:3:207:CLA:HBC3 | 2.04                     | 0.40              |
| 17:3:203:CLA:H122 | 17:3:203:CLA:H8   | 1.89                     | 0.40              |

There are no symmetry-related clashes.

## 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 PDB entries followed by that with respect to all EM entries.

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     | 739/748 (99%) | 681 (92%) | 57 (8%) | 1 (0%)   | 48   78     |

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| Mol | Chain | Analysed        | Favoured   | Allowed   | Outliers | Percentiles |     |
|-----|-------|-----------------|------------|-----------|----------|-------------|-----|
| 2   | B     | 729/732 (100%)  | 654 (90%)  | 72 (10%)  | 3 (0%)   | 30          | 61  |
| 3   | C     | 78/81 (96%)     | 68 (87%)   | 10 (13%)  | 0        | 100         | 100 |
| 4   | D     | 117/139 (84%)   | 102 (87%)  | 12 (10%)  | 3 (3%)   | 4           | 25  |
| 5   | E     | 59/94 (63%)     | 52 (88%)   | 7 (12%)   | 0        | 100         | 100 |
| 6   | F     | 152/185 (82%)   | 134 (88%)  | 18 (12%)  | 0        | 100         | 100 |
| 7   | I     | 29/32 (91%)     | 26 (90%)   | 3 (10%)   | 0        | 100         | 100 |
| 8   | J     | 36/38 (95%)     | 35 (97%)   | 1 (3%)    | 0        | 100         | 100 |
| 9   | K     | 57/60 (95%)     | 51 (90%)   | 6 (10%)   | 0        | 100         | 100 |
| 10  | L     | 117/140 (84%)   | 106 (91%)  | 11 (9%)   | 0        | 100         | 100 |
| 11  | M     | 25/29 (86%)     | 23 (92%)   | 2 (8%)    | 0        | 100         | 100 |
| 12  | O     | 81/155 (52%)    | 67 (83%)   | 14 (17%)  | 0        | 100         | 100 |
| 13  | 1     | 167/175 (95%)   | 130 (78%)  | 36 (22%)  | 1 (1%)   | 22          | 53  |
| 13  | 4     | 168/175 (96%)   | 131 (78%)  | 36 (21%)  | 1 (1%)   | 22          | 53  |
| 14  | 2     | 173/199 (87%)   | 130 (75%)  | 43 (25%)  | 0        | 100         | 100 |
| 14  | 5     | 173/199 (87%)   | 130 (75%)  | 43 (25%)  | 0        | 100         | 100 |
| 15  | 3     | 168/188 (89%)   | 143 (85%)  | 25 (15%)  | 0        | 100         | 100 |
| All | All   | 3068/3369 (91%) | 2663 (87%) | 396 (13%) | 9 (0%)   | 38          | 66  |

All (9) Ramachandran outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 2   | B     | 5   | PHE  |
| 2   | B     | 7   | LYS  |
| 4   | D     | 96  | HIS  |
| 4   | D     | 100 | GLY  |
| 2   | B     | 6   | PRO  |
| 4   | D     | 98  | LYS  |
| 13  | 1     | 12  | PRO  |
| 13  | 4     | 12  | PRO  |
| 1   | A     | 526 | THR  |

### 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 PDB entries followed by that with respect to all EM entries.

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     | 598/605 (99%)   | 595 (100%) | 3 (0%)   | 86          | 92  |
| 2   | B     | 598/599 (100%)  | 595 (100%) | 3 (0%)   | 86          | 92  |
| 3   | C     | 66/67 (98%)     | 66 (100%)  | 0        | 100         | 100 |
| 4   | D     | 101/118 (86%)   | 99 (98%)   | 2 (2%)   | 50          | 69  |
| 5   | E     | 58/87 (67%)     | 58 (100%)  | 0        | 100         | 100 |
| 6   | F     | 136/162 (84%)   | 136 (100%) | 0        | 100         | 100 |
| 7   | I     | 26/27 (96%)     | 26 (100%)  | 0        | 100         | 100 |
| 8   | J     | 34/34 (100%)    | 34 (100%)  | 0        | 100         | 100 |
| 9   | K     | 48/49 (98%)     | 48 (100%)  | 0        | 100         | 100 |
| 10  | L     | 94/113 (83%)    | 93 (99%)   | 1 (1%)   | 70          | 81  |
| 11  | M     | 22/23 (96%)     | 22 (100%)  | 0        | 100         | 100 |
| 12  | O     | 64/121 (53%)    | 63 (98%)   | 1 (2%)   | 58          | 74  |
| 13  | 1     | 139/145 (96%)   | 138 (99%)  | 1 (1%)   | 81          | 89  |
| 13  | 4     | 140/145 (97%)   | 139 (99%)  | 1 (1%)   | 81          | 89  |
| 14  | 2     | 142/160 (89%)   | 141 (99%)  | 1 (1%)   | 81          | 89  |
| 14  | 5     | 142/160 (89%)   | 141 (99%)  | 1 (1%)   | 81          | 89  |
| 15  | 3     | 132/148 (89%)   | 131 (99%)  | 1 (1%)   | 79          | 87  |
| All | All   | 2540/2763 (92%) | 2525 (99%) | 15 (1%)  | 82          | 91  |

All (15) residues with a non-rotameric sidechain are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 1   | A     | 69  | ILE  |
| 1   | A     | 438 | ASN  |
| 1   | A     | 576 | ARG  |
| 2   | B     | 4   | LYS  |
| 2   | B     | 5   | PHE  |
| 2   | B     | 7   | LYS  |
| 4   | D     | 95  | LEU  |
| 4   | D     | 98  | LYS  |
| 10  | L     | 22  | ASN  |
| 12  | O     | 82  | ARG  |
| 13  | 1     | 11  | LYS  |
| 14  | 2     | 85  | ASN  |

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| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 15  | 3     | 78  | LYS  |
| 13  | 4     | 11  | LYS  |
| 14  | 5     | 85  | ASN  |

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (11) such sidechains are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 1   | A     | 112 | GLN  |
| 1   | A     | 189 | ASN  |
| 1   | A     | 320 | GLN  |
| 2   | B     | 374 | GLN  |
| 10  | L     | 22  | ASN  |
| 12  | O     | 86  | GLN  |
| 13  | 1     | 167 | GLN  |
| 14  | 2     | 85  | ASN  |
| 15  | 3     | 98  | GLN  |
| 14  | 5     | 85  | ASN  |
| 14  | 5     | 164 | ASN  |

### 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 oligosaccharides in this entry.

### 5.6 Ligand geometry [i](#)

215 ligands are modelled in this entry.

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 |
| 17  | CLA  | B     | 836 | -    | 65,73,73     | 1.48 | 10 (15%) | 76,113,113  | 1.54 | 11 (14%) |
| 17  | CLA  | A     | 808 | -    | 55,63,73     | 1.57 | 11 (20%) | 64,101,113  | 1.58 | 10 (15%) |
| 17  | CLA  | 3     | 213 | -    | 51,59,73     | 1.61 | 9 (17%)  | 59,96,113   | 1.61 | 8 (13%)  |
| 17  | CLA  | A     | 830 | -    | 56,64,73     | 1.52 | 9 (16%)  | 65,102,113  | 1.61 | 8 (12%)  |
| 20  | BCR  | B     | 846 | -    | 41,41,41     | 1.18 | 2 (4%)   | 56,56,56    | 1.32 | 6 (10%)  |
| 17  | CLA  | J     | 103 | -    | 42,50,73     | 1.73 | 10 (23%) | 48,85,113   | 1.77 | 8 (16%)  |
| 16  | CL0  | A     | 801 | -    | 65,73,73     | 2.87 | 24 (36%) | 76,113,113  | 3.22 | 39 (51%) |
| 20  | BCR  | B     | 805 | -    | 41,41,41     | 1.27 | 3 (7%)   | 56,56,56    | 1.48 | 10 (17%) |
| 25  | ZEX  | 5     | 614 | -    | 42,43,43     | 5.17 | 20 (47%) | 55,60,60    | 5.13 | 32 (58%) |
| 17  | CLA  | B     | 803 | -    | 65,73,73     | 1.44 | 10 (15%) | 76,113,113  | 1.64 | 10 (13%) |
| 17  | CLA  | L     | 202 | 10   | 57,65,73     | 1.58 | 10 (17%) | 66,103,113  | 1.47 | 6 (9%)   |
| 17  | CLA  | 2     | 608 | -    | 50,58,73     | 1.64 | 8 (16%)  | 58,95,113   | 1.90 | 11 (18%) |
| 17  | CLA  | 4     | 606 | -    | 45,53,73     | 1.74 | 8 (17%)  | 52,89,113   | 1.76 | 6 (11%)  |
| 17  | CLA  | B     | 808 | -    | 65,73,73     | 1.46 | 10 (15%) | 76,113,113  | 1.64 | 17 (22%) |
| 17  | CLA  | A     | 807 | 1    | 65,73,73     | 1.48 | 12 (18%) | 76,113,113  | 1.68 | 15 (19%) |
| 17  | CLA  | B     | 833 | -    | 45,53,73     | 1.77 | 10 (22%) | 52,89,113   | 1.71 | 11 (21%) |
| 17  | CLA  | A     | 831 | -    | 65,73,73     | 1.44 | 10 (15%) | 76,113,113  | 1.59 | 10 (13%) |
| 17  | CLA  | O     | 204 | -    | 50,58,73     | 1.65 | 7 (14%)  | 58,95,113   | 1.61 | 10 (17%) |
| 17  | CLA  | 1     | 601 | -    | 48,56,73     | 1.67 | 10 (20%) | 55,92,113   | 2.27 | 13 (23%) |
| 17  | CLA  | 5     | 603 | -    | 65,73,73     | 1.47 | 10 (15%) | 76,113,113  | 1.59 | 13 (17%) |
| 25  | ZEX  | 4     | 614 | -    | 42,43,43     | 5.17 | 19 (45%) | 55,60,60    | 4.78 | 29 (52%) |
| 17  | CLA  | 4     | 605 | -    | 41,50,73     | 1.83 | 5 (12%)  | 46,85,113   | 1.77 | 7 (15%)  |
| 17  | CLA  | A     | 809 | -    | 65,73,73     | 1.43 | 11 (16%) | 76,113,113  | 1.60 | 11 (14%) |
| 20  | BCR  | A     | 843 | -    | 41,41,41     | 1.23 | 3 (7%)   | 56,56,56    | 1.35 | 7 (12%)  |
| 17  | CLA  | A     | 815 | -    | 62,70,73     | 1.46 | 10 (16%) | 72,109,113  | 1.55 | 8 (11%)  |
| 17  | CLA  | 5     | 610 | -    | 45,53,73     | 1.71 | 7 (15%)  | 52,89,113   | 1.75 | 7 (13%)  |
| 17  | CLA  | 4     | 603 | -    | 45,53,73     | 1.69 | 8 (17%)  | 52,89,113   | 1.79 | 9 (17%)  |
| 20  | BCR  | L     | 206 | -    | 41,41,41     | 1.12 | 2 (4%)   | 56,56,56    | 1.25 | 6 (10%)  |
| 25  | ZEX  | 3     | 201 | -    | 42,43,43     | 5.19 | 19 (45%) | 55,60,60    | 5.28 | 30 (54%) |
| 25  | ZEX  | 3     | 217 | -    | 42,43,43     | 5.10 | 20 (47%) | 55,60,60    | 4.94 | 27 (49%) |
| 17  | CLA  | B     | 842 | -    | 65,73,73     | 1.47 | 11 (16%) | 76,113,113  | 1.52 | 7 (9%)   |
| 17  | CLA  | 3     | 211 | -    | 42,50,73     | 1.78 | 9 (21%)  | 48,85,113   | 1.76 | 9 (18%)  |

| Mol | Type | Chain | Res | Link | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
|     |      |       |     |      | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 17  | CLA  | 5     | 613 | -    | 43,52,73     | 1.77 | 5 (11%)  | 51,87,113   | 1.67 | 9 (17%)  |
| 17  | CLA  | A     | 838 | -    | 65,73,73     | 1.43 | 10 (15%) | 76,113,113  | 1.55 | 9 (11%)  |
| 19  | LHG  | A     | 842 | -    | 39,39,48     | 0.76 | 1 (2%)   | 42,45,54    | 1.32 | 6 (14%)  |
| 17  | CLA  | A     | 818 | -    | 45,53,73     | 1.73 | 10 (22%) | 52,89,113   | 1.98 | 12 (23%) |
| 25  | ZEX  | 3     | 216 | -    | 42,43,43     | 5.09 | 19 (45%) | 55,60,60    | 5.10 | 31 (56%) |
| 17  | CLA  | 2     | 605 | -    | 45,53,73     | 1.73 | 10 (22%) | 52,89,113   | 1.83 | 10 (19%) |
| 17  | CLA  | 4     | 609 | -    | 41,49,73     | 1.83 | 5 (12%)  | 47,84,113   | 1.79 | 8 (17%)  |
| 20  | BCR  | J     | 105 | -    | 41,41,41     | 1.32 | 3 (7%)   | 56,56,56    | 1.33 | 7 (12%)  |
| 17  | CLA  | 1     | 604 | -    | 45,53,73     | 1.66 | 8 (17%)  | 52,89,113   | 1.72 | 8 (15%)  |
| 17  | CLA  | B     | 823 | -    | 45,53,73     | 1.74 | 10 (22%) | 52,89,113   | 1.70 | 8 (15%)  |
| 17  | CLA  | 1     | 603 | -    | 45,53,73     | 1.77 | 10 (22%) | 52,89,113   | 1.65 | 8 (15%)  |
| 17  | CLA  | A     | 827 | -    | 65,73,73     | 1.57 | 10 (15%) | 76,113,113  | 1.58 | 14 (18%) |
| 17  | CLA  | B     | 801 | -    | 65,73,73     | 1.41 | 9 (13%)  | 76,113,113  | 2.03 | 14 (18%) |
| 17  | CLA  | 2     | 609 | -    | 41,49,73     | 1.78 | 9 (21%)  | 47,84,113   | 1.81 | 9 (19%)  |
| 20  | BCR  | J     | 104 | -    | 41,41,41     | 1.28 | 3 (7%)   | 56,56,56    | 1.42 | 9 (16%)  |
| 17  | CLA  | B     | 839 | -    | 65,73,73     | 1.53 | 11 (16%) | 76,113,113  | 1.51 | 9 (11%)  |
| 17  | CLA  | 1     | 610 | -    | 45,53,73     | 1.76 | 8 (17%)  | 52,89,113   | 1.74 | 10 (19%) |
| 17  | CLA  | B     | 817 | -    | 45,53,73     | 1.67 | 10 (22%) | 52,89,113   | 1.78 | 7 (13%)  |
| 17  | CLA  | 3     | 209 | -    | 52,60,73     | 1.56 | 8 (15%)  | 60,97,113   | 1.70 | 9 (15%)  |
| 17  | CLA  | 4     | 607 | -    | 45,53,73     | 1.71 | 7 (15%)  | 52,89,113   | 1.83 | 10 (19%) |
| 17  | CLA  | 5     | 608 | -    | 45,53,73     | 1.74 | 9 (20%)  | 52,89,113   | 1.88 | 10 (19%) |
| 17  | CLA  | O     | 201 | -    | 52,60,73     | 1.59 | 8 (15%)  | 60,97,113   | 1.67 | 9 (15%)  |
| 17  | CLA  | 1     | 605 | -    | 41,50,73     | 1.83 | 6 (14%)  | 46,85,113   | 1.67 | 8 (17%)  |
| 17  | CLA  | B     | 843 | -    | 65,73,73     | 1.44 | 8 (12%)  | 76,113,113  | 1.47 | 11 (14%) |
| 17  | CLA  | B     | 810 | -    | 65,73,73     | 1.41 | 10 (15%) | 76,113,113  | 1.50 | 10 (13%) |
| 17  | CLA  | L     | 204 | -    | 50,58,73     | 1.63 | 10 (20%) | 58,95,113   | 1.63 | 9 (15%)  |
| 17  | CLA  | B     | 835 | -    | 65,73,73     | 1.54 | 10 (15%) | 76,113,113  | 1.54 | 8 (10%)  |
| 17  | CLA  | A     | 848 | -    | 65,73,73     | 1.46 | 11 (16%) | 76,113,113  | 2.11 | 18 (23%) |
| 17  | CLA  | B     | 821 | -    | 60,68,73     | 1.47 | 11 (18%) | 70,107,113  | 1.71 | 10 (14%) |
| 17  | CLA  | 4     | 604 | -    | 45,53,73     | 1.77 | 7 (15%)  | 52,89,113   | 1.63 | 9 (17%)  |
| 17  | CLA  | K     | 103 | -    | 42,50,73     | 1.77 | 9 (21%)  | 48,85,113   | 1.81 | 8 (16%)  |
| 17  | CLA  | 3     | 204 | -    | 45,53,73     | 1.73 | 8 (17%)  | 52,89,113   | 1.71 | 9 (17%)  |
| 17  | CLA  | F     | 301 | -    | 61,69,73     | 1.48 | 10 (16%) | 71,108,113  | 1.53 | 8 (11%)  |
| 25  | ZEX  | 4     | 616 | -    | 42,43,43     | 5.04 | 19 (45%) | 55,60,60    | 5.19 | 32 (58%) |
| 17  | CLA  | A     | 821 | -    | 51,59,73     | 1.65 | 9 (17%)  | 59,96,113   | 1.60 | 8 (13%)  |

| Mol | Type | Chain | Res | Link | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
|     |      |       |     |      | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 17  | CLA  | 3     | 203 | -    | 63,71,73     | 1.45 | 9 (14%)  | 73,110,113  | 1.74 | 9 (12%)  |
| 17  | CLA  | 5     | 607 | -    | 45,53,73     | 1.96 | 9 (20%)  | 52,89,113   | 1.74 | 12 (23%) |
| 17  | CLA  | 5     | 612 | -    | 45,53,73     | 1.74 | 6 (13%)  | 52,89,113   | 1.84 | 9 (17%)  |
| 17  | CLA  | A     | 805 | -    | 65,73,73     | 1.44 | 9 (13%)  | 76,113,113  | 1.70 | 13 (17%) |
| 17  | CLA  | A     | 828 | -    | 65,73,73     | 1.62 | 13 (20%) | 76,113,113  | 1.86 | 19 (25%) |
| 17  | CLA  | A     | 817 | -    | 65,73,73     | 1.51 | 11 (16%) | 76,113,113  | 1.56 | 11 (14%) |
| 25  | ZEX  | 1     | 614 | -    | 42,43,43     | 5.03 | 19 (45%) | 55,60,60    | 5.77 | 30 (54%) |
| 17  | CLA  | 1     | 609 | -    | 41,49,73     | 1.75 | 8 (19%)  | 47,84,113   | 1.88 | 9 (19%)  |
| 17  | CLA  | 2     | 601 | -    | 45,53,73     | 1.72 | 8 (17%)  | 52,89,113   | 1.81 | 9 (17%)  |
| 20  | BCR  | K     | 104 | -    | 41,41,41     | 1.15 | 2 (4%)   | 56,56,56    | 1.35 | 7 (12%)  |
| 17  | CLA  | A     | 829 | -    | 50,58,73     | 1.70 | 10 (20%) | 58,95,113   | 1.53 | 10 (17%) |
| 20  | BCR  | I     | 101 | -    | 41,41,41     | 1.19 | 2 (4%)   | 56,56,56    | 1.40 | 8 (14%)  |
| 21  | SF4  | C     | 101 | 3    | 0,12,12      | -    | -        | -           | -    | -        |
| 20  | BCR  | B     | 849 | -    | 41,41,41     | 1.27 | 3 (7%)   | 56,56,56    | 1.57 | 10 (17%) |
| 25  | ZEX  | 2     | 616 | -    | 42,43,43     | 5.27 | 20 (47%) | 55,60,60    | 4.77 | 29 (52%) |
| 25  | ZEX  | 2     | 617 | -    | 42,43,43     | 4.80 | 19 (45%) | 55,60,60    | 5.29 | 29 (52%) |
| 25  | ZEX  | 3     | 218 | -    | 42,43,43     | 5.43 | 20 (47%) | 55,60,60    | 4.52 | 33 (60%) |
| 25  | ZEX  | 1     | 616 | -    | 42,43,43     | 5.05 | 19 (45%) | 55,60,60    | 5.10 | 32 (58%) |
| 25  | ZEX  | 3     | 215 | -    | 42,43,43     | 4.97 | 19 (45%) | 55,60,60    | 5.27 | 33 (60%) |
| 17  | CLA  | 2     | 604 | -    | 42,50,73     | 1.71 | 10 (23%) | 48,85,113   | 1.90 | 7 (14%)  |
| 21  | SF4  | C     | 102 | -    | 0,12,12      | -    | -        | -           | -    | -        |
| 17  | CLA  | B     | 819 | -    | 55,63,73     | 1.50 | 9 (16%)  | 64,101,113  | 1.65 | 8 (12%)  |
| 17  | CLA  | B     | 825 | -    | 43,51,73     | 1.77 | 11 (25%) | 49,86,113   | 1.67 | 9 (18%)  |
| 17  | CLA  | A     | 814 | -    | 45,53,73     | 1.75 | 8 (17%)  | 52,89,113   | 1.79 | 12 (23%) |
| 17  | CLA  | B     | 806 | -    | 65,73,73     | 1.52 | 12 (18%) | 76,113,113  | 1.87 | 14 (18%) |
| 17  | CLA  | A     | 803 | -    | 65,73,73     | 1.49 | 12 (18%) | 76,113,113  | 1.77 | 13 (17%) |
| 17  | CLA  | A     | 837 | -    | 65,73,73     | 1.41 | 8 (12%)  | 76,113,113  | 1.56 | 9 (11%)  |
| 17  | CLA  | 1     | 606 | -    | 45,53,73     | 1.72 | 10 (22%) | 52,89,113   | 1.67 | 9 (17%)  |
| 17  | CLA  | 1     | 602 | -    | 59,67,73     | 1.45 | 10 (16%) | 68,105,113  | 1.70 | 8 (11%)  |
| 20  | BCR  | F     | 304 | -    | 41,41,41     | 1.18 | 2 (4%)   | 56,56,56    | 1.39 | 10 (17%) |
| 17  | CLA  | B     | 816 | -    | 65,73,73     | 1.41 | 10 (15%) | 76,113,113  | 1.56 | 12 (15%) |
| 17  | CLA  | B     | 809 | -    | 65,73,73     | 1.50 | 11 (16%) | 76,113,113  | 1.55 | 10 (13%) |
| 17  | CLA  | B     | 829 | -    | 65,73,73     | 1.46 | 10 (15%) | 76,113,113  | 1.54 | 9 (11%)  |
| 17  | CLA  | A     | 812 | -    | 45,53,73     | 1.65 | 9 (20%)  | 52,89,113   | 1.88 | 10 (19%) |
| 20  | BCR  | A     | 845 | -    | 41,41,41     | 1.34 | 3 (7%)   | 56,56,56    | 1.43 | 9 (16%)  |



| Mol | Type | Chain | Res | Link | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
|     |      |       |     |      | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 25  | ZEX  | 5     | 617 | -    | 42,43,43     | 4.98 | 19 (45%) | 55,60,60    | 5.31 | 26 (47%) |
| 17  | CLA  | A     | 823 | -    | 65,73,73     | 1.46 | 10 (15%) | 76,113,113  | 1.51 | 14 (18%) |
| 25  | ZEX  | 2     | 615 | -    | 42,43,43     | 4.79 | 18 (42%) | 55,60,60    | 5.10 | 31 (56%) |
| 17  | CLA  | 1     | 612 | -    | 45,53,73     | 1.75 | 9 (20%)  | 52,89,113   | 1.73 | 9 (17%)  |
| 17  | CLA  | B     | 822 | -    | 65,73,73     | 1.49 | 11 (16%) | 76,113,113  | 1.49 | 7 (9%)   |
| 17  | CLA  | 4     | 601 | -    | 48,56,73     | 1.68 | 7 (14%)  | 55,92,113   | 1.84 | 11 (20%) |
| 17  | CLA  | B     | 811 | -    | 65,73,73     | 1.43 | 12 (18%) | 76,113,113  | 1.83 | 15 (19%) |
| 24  | 3XQ  | J     | 106 | -    | 24,24,24     | 0.60 | 1 (4%)   | 25,25,25    | 1.13 | 0        |
| 26  | 1DO  | 3     | 219 | 22   | 12,12,12     | 0.26 | 0        | 11,11,11    | 0.85 | 0        |
| 17  | CLA  | A     | 832 | -    | 65,73,73     | 1.40 | 10 (15%) | 76,113,113  | 1.73 | 13 (17%) |
| 17  | CLA  | A     | 839 | -    | 65,73,73     | 1.46 | 12 (18%) | 76,113,113  | 1.59 | 9 (11%)  |
| 25  | ZEX  | 1     | 613 | -    | 42,43,43     | 4.99 | 18 (42%) | 55,60,60    | 5.22 | 32 (58%) |
| 17  | CLA  | B     | 812 | -    | 65,73,73     | 1.50 | 12 (18%) | 76,113,113  | 1.55 | 12 (15%) |
| 17  | CLA  | B     | 826 | -    | 55,63,73     | 1.60 | 10 (18%) | 64,101,113  | 1.50 | 9 (14%)  |
| 18  | PQN  | B     | 844 | -    | 34,34,34     | 2.78 | 9 (26%)  | 42,45,45    | 2.32 | 7 (16%)  |
| 20  | BCR  | B     | 847 | -    | 41,41,41     | 1.17 | 3 (7%)   | 56,56,56    | 1.34 | 8 (14%)  |
| 25  | ZEX  | 1     | 615 | -    | 42,43,43     | 4.86 | 19 (45%) | 55,60,60    | 5.26 | 33 (60%) |
| 17  | CLA  | A     | 833 | -    | 65,73,73     | 1.44 | 10 (15%) | 76,113,113  | 1.58 | 10 (13%) |
| 17  | CLA  | A     | 836 | -    | 65,73,73     | 1.48 | 11 (16%) | 76,113,113  | 1.64 | 13 (17%) |
| 17  | CLA  | B     | 827 | -    | 65,73,73     | 1.47 | 11 (16%) | 76,113,113  | 1.66 | 12 (15%) |
| 17  | CLA  | B     | 824 | -    | 46,54,73     | 1.70 | 10 (21%) | 53,90,113   | 1.68 | 8 (15%)  |
| 17  | CLA  | 4     | 611 | -    | 45,53,73     | 1.81 | 7 (15%)  | 52,89,113   | 1.65 | 9 (17%)  |
| 17  | CLA  | B     | 820 | -    | 59,67,73     | 1.57 | 10 (16%) | 68,105,113  | 1.60 | 11 (16%) |
| 17  | CLA  | F     | 303 | -    | 41,49,73     | 1.74 | 9 (21%)  | 47,84,113   | 1.82 | 8 (17%)  |
| 17  | CLA  | 5     | 605 | -    | 45,53,73     | 1.75 | 6 (13%)  | 52,89,113   | 1.69 | 8 (15%)  |
| 25  | ZEX  | 1     | 617 | -    | 42,43,43     | 4.91 | 18 (42%) | 55,60,60    | 5.13 | 29 (52%) |
| 20  | BCR  | O     | 202 | -    | 41,41,41     | 1.34 | 3 (7%)   | 56,56,56    | 1.53 | 11 (19%) |
| 17  | CLA  | L     | 203 | -    | 65,73,73     | 1.43 | 10 (15%) | 76,113,113  | 1.45 | 7 (9%)   |
| 17  | CLA  | 5     | 604 | -    | 45,53,73     | 1.74 | 7 (15%)  | 52,89,113   | 1.72 | 8 (15%)  |
| 17  | CLA  | A     | 802 | -    | 55,63,73     | 1.55 | 10 (18%) | 64,101,113  | 1.86 | 10 (15%) |
| 17  | CLA  | 1     | 608 | -    | 60,68,73     | 1.51 | 10 (16%) | 70,107,113  | 1.54 | 9 (12%)  |
| 17  | CLA  | 2     | 603 | -    | 45,53,73     | 1.67 | 9 (20%)  | 52,89,113   | 1.80 | 7 (13%)  |
| 20  | BCR  | B     | 845 | -    | 41,41,41     | 1.06 | 2 (4%)   | 56,56,56    | 1.25 | 8 (14%)  |
| 21  | SF4  | A     | 847 | -    | 0,12,12      | -    | -        | -           | -    | -        |
| 17  | CLA  | A     | 825 | -    | 65,73,73     | 1.48 | 10 (15%) | 76,113,113  | 1.62 | 10 (13%) |



| Mol | Type | Chain | Res | Link | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
|     |      |       |     |      | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 20  | BCR  | K     | 101 | -    | 41,41,41     | 1.23 | 3 (7%)   | 56,56,56    | 1.36 | 9 (16%)  |
| 17  | CLA  | B     | 804 | -    | 65,73,73     | 1.55 | 10 (15%) | 76,113,113  | 1.69 | 19 (25%) |
| 17  | CLA  | K     | 102 | -    | 45,53,73     | 1.69 | 10 (22%) | 52,89,113   | 1.70 | 9 (17%)  |
| 17  | CLA  | 3     | 212 | -    | 46,54,73     | 1.68 | 7 (15%)  | 53,90,113   | 1.65 | 7 (13%)  |
| 19  | LHG  | A     | 841 | -    | 48,48,48     | 0.69 | 1 (2%)   | 51,54,54    | 1.27 | 6 (11%)  |
| 25  | ZEX  | 5     | 615 | -    | 42,43,43     | 5.32 | 20 (47%) | 55,60,60    | 4.94 | 31 (56%) |
| 17  | CLA  | A     | 804 | -    | 65,73,73     | 1.44 | 9 (13%)  | 76,113,113  | 1.68 | 9 (11%)  |
| 17  | CLA  | A     | 820 | -    | 49,57,73     | 1.64 | 11 (22%) | 55,93,113   | 1.77 | 9 (16%)  |
| 17  | CLA  | B     | 818 | -    | 42,50,73     | 1.81 | 10 (23%) | 48,85,113   | 1.83 | 9 (18%)  |
| 17  | CLA  | J     | 102 | -    | 58,66,73     | 1.52 | 11 (18%) | 67,104,113  | 1.61 | 8 (11%)  |
| 17  | CLA  | B     | 838 | -    | 60,68,73     | 1.56 | 10 (16%) | 70,107,113  | 1.62 | 11 (15%) |
| 17  | CLA  | 2     | 611 | -    | 45,53,73     | 1.72 | 10 (22%) | 52,89,113   | 1.88 | 10 (19%) |
| 17  | CLA  | 3     | 208 | -    | 45,53,73     | 1.78 | 10 (22%) | 52,89,113   | 1.67 | 8 (15%)  |
| 20  | BCR  | L     | 205 | -    | 41,41,41     | 1.12 | 2 (4%)   | 56,56,56    | 1.56 | 9 (16%)  |
| 17  | CLA  | 2     | 602 | -    | 65,73,73     | 1.50 | 10 (15%) | 76,113,113  | 1.53 | 8 (10%)  |
| 17  | CLA  | A     | 822 | -    | 55,63,73     | 1.58 | 11 (20%) | 64,101,113  | 1.65 | 9 (14%)  |
| 17  | CLA  | A     | 811 | -    | 65,73,73     | 1.46 | 11 (16%) | 76,113,113  | 1.53 | 10 (13%) |
| 17  | CLA  | 3     | 205 | -    | 45,53,73     | 1.78 | 10 (22%) | 52,89,113   | 1.79 | 9 (17%)  |
| 17  | CLA  | 4     | 610 | -    | 45,53,73     | 1.78 | 6 (13%)  | 52,89,113   | 1.72 | 8 (15%)  |
| 20  | BCR  | A     | 846 | -    | 41,41,41     | 1.33 | 2 (4%)   | 56,56,56    | 1.39 | 9 (16%)  |
| 23  | DGD  | B     | 851 | -    | 67,67,67     | 1.03 | 3 (4%)   | 81,81,81    | 1.47 | 11 (13%) |
| 25  | ZEX  | 4     | 613 | -    | 42,43,43     | 5.05 | 20 (47%) | 55,60,60    | 5.08 | 31 (56%) |
| 25  | ZEX  | 4     | 612 | -    | 42,43,43     | 5.10 | 19 (45%) | 55,60,60    | 5.09 | 31 (56%) |
| 17  | CLA  | 5     | 606 | -    | 45,53,73     | 1.81 | 10 (22%) | 52,89,113   | 2.45 | 22 (42%) |
| 17  | CLA  | 2     | 607 | -    | 45,53,73     | 1.71 | 10 (22%) | 52,89,113   | 1.77 | 9 (17%)  |
| 17  | CLA  | 5     | 601 | -    | 45,53,73     | 1.76 | 6 (13%)  | 52,89,113   | 1.71 | 8 (15%)  |
| 25  | ZEX  | 4     | 615 | -    | 42,43,43     | 5.16 | 19 (45%) | 55,60,60    | 4.81 | 28 (50%) |
| 17  | CLA  | A     | 806 | 1    | 65,73,73     | 1.41 | 11 (16%) | 76,113,113  | 1.56 | 10 (13%) |
| 17  | CLA  | F     | 302 | -    | 45,53,73     | 1.72 | 9 (20%)  | 52,89,113   | 1.75 | 8 (15%)  |
| 20  | BCR  | L     | 201 | -    | 41,41,41     | 1.30 | 3 (7%)   | 56,56,56    | 1.35 | 9 (16%)  |
| 20  | BCR  | B     | 850 | -    | 41,41,41     | 1.26 | 3 (7%)   | 56,56,56    | 1.53 | 9 (16%)  |
| 17  | CLA  | B     | 840 | -    | 47,55,73     | 1.62 | 9 (19%)  | 54,91,113   | 1.81 | 8 (14%)  |
| 17  | CLA  | 1     | 607 | -    | 45,53,73     | 1.69 | 8 (17%)  | 52,89,113   | 1.97 | 10 (19%) |
| 17  | CLA  | B     | 814 | -    | 54,62,73     | 1.66 | 9 (16%)  | 67,100,113  | 1.90 | 12 (17%) |
| 17  | CLA  | B     | 830 | -    | 65,73,73     | 1.43 | 11 (16%) | 76,113,113  | 1.49 | 11 (14%) |

| Mol | Type | Chain | Res | Link | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
|     |      |       |     |      | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 17  | CLA  | A     | 834 | -    | 45,53,73     | 1.77 | 9 (20%)  | 52,89,113   | 1.72 | 8 (15%)  |
| 17  | CLA  | A     | 835 | -    | 51,59,73     | 1.56 | 9 (17%)  | 59,96,113   | 1.81 | 9 (15%)  |
| 17  | CLA  | B     | 807 | -    | 45,53,73     | 1.70 | 10 (22%) | 52,89,113   | 1.81 | 8 (15%)  |
| 17  | CLA  | 3     | 207 | -    | 45,53,73     | 1.70 | 9 (20%)  | 52,89,113   | 1.79 | 9 (17%)  |
| 17  | CLA  | 5     | 602 | -    | 45,53,73     | 1.78 | 6 (13%)  | 52,89,113   | 1.82 | 10 (19%) |
| 17  | CLA  | 5     | 609 | -    | 41,49,73     | 1.88 | 8 (19%)  | 47,84,113   | 2.11 | 16 (34%) |
| 17  | CLA  | 2     | 610 | -    | 42,50,73     | 1.77 | 10 (23%) | 48,85,113   | 1.84 | 8 (16%)  |
| 17  | CLA  | 3     | 206 | -    | 45,53,73     | 1.84 | 9 (20%)  | 52,89,113   | 1.81 | 12 (23%) |
| 25  | ZEX  | 3     | 214 | -    | 42,43,43     | 5.06 | 19 (45%) | 55,60,60    | 5.27 | 30 (54%) |
| 17  | CLA  | 2     | 606 | -    | 45,53,73     | 1.72 | 10 (22%) | 52,89,113   | 1.68 | 9 (17%)  |
| 20  | BCR  | A     | 844 | -    | 41,41,41     | 1.18 | 2 (4%)   | 56,56,56    | 1.42 | 10 (17%) |
| 25  | ZEX  | 5     | 616 | -    | 42,43,43     | 5.23 | 20 (47%) | 55,60,60    | 5.04 | 28 (50%) |
| 17  | CLA  | 2     | 613 | -    | 45,53,73     | 1.75 | 9 (20%)  | 52,89,113   | 1.66 | 9 (17%)  |
| 17  | CLA  | 3     | 210 | -    | 41,49,73     | 1.77 | 7 (17%)  | 47,84,113   | 1.87 | 10 (21%) |
| 17  | CLA  | 1     | 611 | -    | 45,53,73     | 1.70 | 10 (22%) | 52,89,113   | 2.13 | 10 (19%) |
| 17  | CLA  | 4     | 608 | -    | 45,53,73     | 1.79 | 9 (20%)  | 52,89,113   | 1.80 | 9 (17%)  |
| 20  | BCR  | B     | 848 | -    | 41,41,41     | 1.19 | 2 (4%)   | 56,56,56    | 1.41 | 9 (16%)  |
| 17  | CLA  | 4     | 602 | -    | 59,67,73     | 1.51 | 9 (15%)  | 68,105,113  | 1.70 | 10 (14%) |
| 17  | CLA  | B     | 837 | -    | 45,53,73     | 1.78 | 10 (22%) | 52,89,113   | 1.69 | 7 (13%)  |
| 17  | CLA  | A     | 824 | -    | 55,63,73     | 1.55 | 11 (20%) | 64,101,113  | 1.76 | 12 (18%) |
| 17  | CLA  | O     | 205 | -    | 45,53,73     | 1.76 | 8 (17%)  | 52,89,113   | 1.62 | 9 (17%)  |
| 17  | CLA  | 3     | 202 | -    | 45,53,73     | 1.71 | 7 (15%)  | 52,89,113   | 1.70 | 9 (17%)  |
| 17  | CLA  | 2     | 612 | -    | 45,53,73     | 1.74 | 10 (22%) | 52,89,113   | 1.74 | 7 (13%)  |
| 17  | CLA  | B     | 832 | -    | 65,73,73     | 1.54 | 12 (18%) | 76,113,113  | 1.91 | 14 (18%) |
| 17  | CLA  | B     | 831 | -    | 65,73,73     | 1.56 | 9 (13%)  | 76,113,113  | 1.52 | 10 (13%) |
| 17  | CLA  | B     | 834 | -    | 43,51,73     | 1.77 | 10 (23%) | 49,86,113   | 1.80 | 10 (20%) |
| 17  | CLA  | J     | 101 | -    | 65,73,73     | 1.44 | 10 (15%) | 76,113,113  | 1.64 | 10 (13%) |
| 17  | CLA  | B     | 815 | -    | 55,63,73     | 1.56 | 9 (16%)  | 64,101,113  | 1.56 | 8 (12%)  |
| 18  | PQN  | A     | 840 | -    | 34,34,34     | 2.77 | 10 (29%) | 42,45,45    | 2.16 | 5 (11%)  |
| 17  | CLA  | A     | 819 | -    | 65,73,73     | 1.51 | 11 (16%) | 76,113,113  | 1.71 | 9 (11%)  |
| 25  | ZEX  | 4     | 617 | -    | 42,43,43     | 5.16 | 19 (45%) | 55,60,60    | 5.04 | 30 (54%) |
| 17  | CLA  | B     | 828 | -    | 65,73,73     | 1.45 | 10 (15%) | 76,113,113  | 1.62 | 10 (13%) |
| 25  | ZEX  | 2     | 614 | -    | 42,43,43     | 4.94 | 19 (45%) | 55,60,60    | 5.25 | 33 (60%) |
| 17  | CLA  | B     | 841 | -    | 65,73,73     | 1.44 | 10 (15%) | 76,113,113  | 1.56 | 9 (11%)  |
| 17  | CLA  | A     | 826 | -    | 65,73,73     | 1.46 | 10 (15%) | 76,113,113  | 1.70 | 10 (13%) |

| Mol | Type | Chain | Res | Link | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
|     |      |       |     |      | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 17  | CLA  | A     | 810 | -    | 54,62,73     | 1.58 | 10 (18%) | 62,99,113   | 1.53 | 7 (11%)  |
| 17  | CLA  | O     | 203 | -    | 41,49,73     | 1.80 | 6 (14%)  | 47,84,113   | 1.79 | 9 (19%)  |
| 17  | CLA  | B     | 813 | -    | 65,73,73     | 1.49 | 10 (15%) | 76,113,113  | 1.46 | 11 (14%) |
| 17  | CLA  | 5     | 611 | -    | 45,53,73     | 1.76 | 5 (11%)  | 52,89,113   | 1.68 | 8 (15%)  |
| 22  | BGC  | A     | 849 | 26   | 11,11,12     | 1.66 | 3 (27%)  | 15,15,17    | 1.04 | 0        |
| 17  | CLA  | B     | 802 | -    | 65,73,73     | 1.57 | 11 (16%) | 76,113,113  | 1.75 | 24 (31%) |
| 17  | CLA  | A     | 816 | -    | 65,73,73     | 1.48 | 11 (16%) | 76,113,113  | 1.56 | 10 (13%) |
| 17  | CLA  | A     | 813 | -    | 42,50,73     | 1.74 | 9 (21%)  | 48,85,113   | 1.93 | 7 (14%)  |

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   |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 17  | CLA  | B     | 836 | -    | 1/1/15/20 | 16/37/115/115 | -       |
| 17  | CLA  | A     | 808 | -    | 1/1/13/20 | 8/25/103/115  | -       |
| 17  | CLA  | 3     | 213 | -    | 1/1/12/20 | 8/21/99/115   | -       |
| 17  | CLA  | A     | 830 | -    | 1/1/13/20 | 6/27/105/115  | -       |
| 20  | BCR  | B     | 846 | -    | -         | 11/29/63/63   | 0/2/2/2 |
| 17  | CLA  | J     | 103 | -    | 1/1/10/20 | 6/10/88/115   | -       |
| 16  | CL0  | A     | 801 | -    | 3/3/20/25 | 10/37/135/135 | -       |
| 20  | BCR  | B     | 805 | -    | -         | 15/29/63/63   | 0/2/2/2 |
| 25  | ZEX  | 5     | 614 | -    | -         | 18/29/67/67   | 0/2/2/2 |
| 17  | CLA  | B     | 803 | -    | 1/1/15/20 | 22/37/115/115 | -       |
| 17  | CLA  | L     | 202 | 10   | 1/1/13/20 | 14/28/106/115 | -       |
| 17  | CLA  | 2     | 608 | -    | 1/1/12/20 | 8/19/97/115   | -       |
| 17  | CLA  | 4     | 606 | -    | 1/1/11/20 | 4/13/91/115   | -       |
| 17  | CLA  | B     | 808 | -    | 1/1/15/20 | 16/37/115/115 | -       |
| 17  | CLA  | A     | 807 | 1    | 1/1/15/20 | 19/37/115/115 | -       |
| 17  | CLA  | B     | 833 | -    | 1/1/11/20 | 5/13/91/115   | -       |
| 17  | CLA  | A     | 831 | -    | 1/1/15/20 | 18/37/115/115 | -       |
| 17  | CLA  | O     | 204 | -    | 1/1/12/20 | 6/19/97/115   | -       |
| 17  | CLA  | 1     | 601 | -    | 1/1/11/20 | 6/17/95/115   | -       |
| 17  | CLA  | 5     | 603 | -    | 1/1/15/20 | 20/37/115/115 | -       |
| 25  | ZEX  | 4     | 614 | -    | -         | 17/29/67/67   | 0/2/2/2 |

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| Mol | Type | Chain | Res | Link | Chirals   | Torsions      | Rings   |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 17  | CLA  | 4     | 605 | -    | 1/1/10/20 | 2/9/87/115    | -       |
| 17  | CLA  | A     | 809 | -    | 1/1/15/20 | 13/37/115/115 | -       |
| 20  | BCR  | A     | 843 | -    | -         | 16/29/63/63   | 0/2/2/2 |
| 17  | CLA  | A     | 815 | -    | 1/1/14/20 | 13/34/112/115 | -       |
| 17  | CLA  | 5     | 610 | -    | 1/1/11/20 | 8/13/91/115   | -       |
| 17  | CLA  | 4     | 603 | -    | 1/1/11/20 | 10/13/91/115  | -       |
| 20  | BCR  | L     | 206 | -    | -         | 15/29/63/63   | 0/2/2/2 |
| 25  | ZEX  | 3     | 201 | -    | -         | 16/29/67/67   | 0/2/2/2 |
| 25  | ZEX  | 3     | 217 | -    | -         | 15/29/67/67   | 0/2/2/2 |
| 17  | CLA  | B     | 842 | -    | 1/1/15/20 | 14/37/115/115 | -       |
| 17  | CLA  | 3     | 211 | -    | 1/1/10/20 | 1/10/88/115   | -       |
| 17  | CLA  | 5     | 613 | -    | 1/1/10/20 | 4/10/88/115   | -       |
| 17  | CLA  | A     | 838 | -    | 1/1/15/20 | 11/37/115/115 | -       |
| 19  | LHG  | A     | 842 | -    | -         | 19/44/44/53   | -       |
| 17  | CLA  | A     | 818 | -    | 1/1/11/20 | 7/13/91/115   | -       |
| 25  | ZEX  | 3     | 216 | -    | -         | 19/29/67/67   | 0/2/2/2 |
| 17  | CLA  | 2     | 605 | -    | 1/1/11/20 | 7/13/91/115   | -       |
| 17  | CLA  | 4     | 609 | -    | 1/1/10/20 | 5/8/86/115    | -       |
| 20  | BCR  | J     | 105 | -    | -         | 14/29/63/63   | 0/2/2/2 |
| 17  | CLA  | 1     | 604 | -    | 1/1/11/20 | 7/13/91/115   | -       |
| 17  | CLA  | B     | 823 | -    | 1/1/11/20 | 2/13/91/115   | -       |
| 17  | CLA  | 1     | 603 | -    | 1/1/11/20 | 7/13/91/115   | -       |
| 17  | CLA  | A     | 827 | -    | 1/1/15/20 | 18/37/115/115 | -       |
| 17  | CLA  | B     | 801 | -    | 1/1/15/20 | 14/37/115/115 | -       |
| 17  | CLA  | 2     | 609 | -    | 1/1/10/20 | 3/8/86/115    | -       |
| 20  | BCR  | J     | 104 | -    | -         | 16/29/63/63   | 0/2/2/2 |
| 17  | CLA  | B     | 839 | -    | 1/1/15/20 | 10/37/115/115 | -       |
| 17  | CLA  | 1     | 610 | -    | 1/1/11/20 | 4/13/91/115   | -       |
| 17  | CLA  | B     | 817 | -    | 1/1/11/20 | 3/13/91/115   | -       |
| 17  | CLA  | 3     | 209 | -    | 1/1/12/20 | 7/22/100/115  | -       |
| 17  | CLA  | 4     | 607 | -    | 1/1/11/20 | 7/13/91/115   | -       |
| 17  | CLA  | 5     | 608 | -    | 1/1/11/20 | 5/13/91/115   | -       |
| 17  | CLA  | O     | 201 | -    | 1/1/12/20 | 7/22/100/115  | -       |
| 17  | CLA  | 1     | 605 | -    | 1/1/10/20 | 3/9/87/115    | -       |

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| Mol | Type | Chain | Res | Link | Chirals   | Torsions      | Rings   |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 17  | CLA  | B     | 843 | -    | 1/1/15/20 | 16/37/115/115 | -       |
| 17  | CLA  | B     | 810 | -    | 1/1/15/20 | 17/37/115/115 | -       |
| 17  | CLA  | L     | 204 | -    | 1/1/12/20 | 6/19/97/115   | -       |
| 17  | CLA  | B     | 835 | -    | 1/1/15/20 | 17/37/115/115 | -       |
| 17  | CLA  | A     | 848 | -    | 1/1/15/20 | 9/37/115/115  | -       |
| 17  | CLA  | B     | 821 | -    | 1/1/14/20 | 16/31/109/115 | -       |
| 17  | CLA  | 4     | 604 | -    | 1/1/11/20 | 7/13/91/115   | -       |
| 17  | CLA  | K     | 103 | -    | 1/1/10/20 | 5/10/88/115   | -       |
| 17  | CLA  | 3     | 204 | -    | 1/1/11/20 | 6/13/91/115   | -       |
| 17  | CLA  | F     | 301 | -    | 1/1/14/20 | 14/33/111/115 | -       |
| 25  | ZEX  | 4     | 616 | -    | -         | 17/29/67/67   | 0/2/2/2 |
| 17  | CLA  | A     | 821 | -    | 1/1/12/20 | 12/21/99/115  | -       |
| 17  | CLA  | 3     | 203 | -    | 1/1/14/20 | 20/35/113/115 | -       |
| 17  | CLA  | 5     | 607 | -    | 1/1/11/20 | 7/13/91/115   | -       |
| 17  | CLA  | 5     | 612 | -    | 1/1/11/20 | 5/13/91/115   | -       |
| 17  | CLA  | A     | 805 | -    | 1/1/15/20 | 16/37/115/115 | -       |
| 17  | CLA  | A     | 828 | -    | 1/1/15/20 | 10/37/115/115 | -       |
| 17  | CLA  | A     | 817 | -    | 1/1/15/20 | 15/37/115/115 | -       |
| 25  | ZEX  | 1     | 614 | -    | -         | 16/29/67/67   | 0/2/2/2 |
| 17  | CLA  | 1     | 609 | -    | 1/1/10/20 | 0/8/86/115    | -       |
| 17  | CLA  | 2     | 601 | -    | 1/1/11/20 | 6/13/91/115   | -       |
| 20  | BCR  | K     | 104 | -    | -         | 19/29/63/63   | 0/2/2/2 |
| 17  | CLA  | A     | 829 | -    | 1/1/12/20 | 4/19/97/115   | -       |
| 20  | BCR  | I     | 101 | -    | -         | 18/29/63/63   | 0/2/2/2 |
| 25  | ZEX  | 3     | 218 | -    | -         | 17/29/67/67   | 0/2/2/2 |
| 20  | BCR  | B     | 849 | -    | -         | 23/29/63/63   | 0/2/2/2 |
| 25  | ZEX  | 2     | 616 | -    | -         | 19/29/67/67   | 0/2/2/2 |
| 25  | ZEX  | 2     | 617 | -    | -         | 19/29/67/67   | 0/2/2/2 |
| 21  | SF4  | C     | 101 | 3    | -         | -             | 0/6/5/5 |
| 25  | ZEX  | 1     | 616 | -    | -         | 20/29/67/67   | 0/2/2/2 |
| 25  | ZEX  | 3     | 215 | -    | -         | 16/29/67/67   | 0/2/2/2 |
| 17  | CLA  | 2     | 604 | -    | 1/1/10/20 | 3/10/88/115   | -       |
| 21  | SF4  | C     | 102 | -    | -         | -             | 0/6/5/5 |
| 17  | CLA  | B     | 819 | -    | 1/1/13/20 | 12/25/103/115 | -       |
| 17  | CLA  | B     | 825 | -    | 1/1/10/20 | 5/11/89/115   | -       |

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| Mol | Type | Chain | Res | Link | Chirals   | Torsions      | Rings   |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 17  | CLA  | A     | 814 | -    | 1/1/11/20 | 4/13/91/115   | -       |
| 17  | CLA  | B     | 806 | -    | 1/1/15/20 | 16/37/115/115 | -       |
| 17  | CLA  | A     | 803 | -    | 1/1/15/20 | 2/37/115/115  | -       |
| 17  | CLA  | A     | 837 | -    | 1/1/15/20 | 12/37/115/115 | -       |
| 17  | CLA  | 1     | 606 | -    | 1/1/11/20 | 6/13/91/115   | -       |
| 17  | CLA  | 1     | 602 | -    | 1/1/13/20 | 10/30/108/115 | -       |
| 20  | BCR  | F     | 304 | -    | -         | 18/29/63/63   | 0/2/2/2 |
| 17  | CLA  | B     | 816 | -    | 1/1/15/20 | 19/37/115/115 | -       |
| 17  | CLA  | B     | 809 | -    | 1/1/15/20 | 15/37/115/115 | -       |
| 17  | CLA  | B     | 829 | -    | 1/1/15/20 | 17/37/115/115 | -       |
| 17  | CLA  | A     | 812 | -    | 1/1/11/20 | 6/13/91/115   | -       |
| 20  | BCR  | A     | 845 | -    | -         | 18/29/63/63   | 0/2/2/2 |
| 25  | ZEX  | 5     | 617 | -    | -         | 18/29/67/67   | 0/2/2/2 |
| 17  | CLA  | A     | 823 | -    | 1/1/15/20 | 16/37/115/115 | -       |
| 25  | ZEX  | 2     | 615 | -    | -         | 16/29/67/67   | 0/2/2/2 |
| 17  | CLA  | 1     | 612 | -    | 1/1/11/20 | 7/13/91/115   | -       |
| 17  | CLA  | B     | 822 | -    | 1/1/15/20 | 17/37/115/115 | -       |
| 17  | CLA  | 4     | 601 | -    | 1/1/11/20 | 7/17/95/115   | -       |
| 17  | CLA  | B     | 811 | -    | 1/1/15/20 | 6/37/115/115  | -       |
| 24  | 3XQ  | J     | 106 | -    | -         | 17/24/24/24   | -       |
| 26  | 1DO  | 3     | 219 | 22   | -         | 3/10/10/10    | -       |
| 17  | CLA  | A     | 832 | -    | 1/1/15/20 | 18/37/115/115 | -       |
| 17  | CLA  | A     | 839 | -    | 1/1/15/20 | 17/37/115/115 | -       |
| 25  | ZEX  | 1     | 613 | -    | -         | 16/29/67/67   | 0/2/2/2 |
| 17  | CLA  | B     | 812 | -    | 1/1/15/20 | 18/37/115/115 | -       |
| 17  | CLA  | B     | 826 | -    | 1/1/13/20 | 7/25/103/115  | -       |
| 18  | PQN  | B     | 844 | -    | -         | 7/23/43/43    | 0/2/2/2 |
| 20  | BCR  | B     | 847 | -    | -         | 23/29/63/63   | 0/2/2/2 |
| 25  | ZEX  | 1     | 615 | -    | -         | 20/29/67/67   | 0/2/2/2 |
| 17  | CLA  | A     | 833 | -    | 1/1/15/20 | 16/37/115/115 | -       |
| 17  | CLA  | A     | 836 | -    | 1/1/15/20 | 13/37/115/115 | -       |
| 17  | CLA  | B     | 827 | -    | 1/1/15/20 | 11/37/115/115 | -       |
| 17  | CLA  | B     | 824 | -    | 1/1/11/20 | 6/15/93/115   | -       |
| 17  | CLA  | 4     | 611 | -    | 1/1/11/20 | 8/13/91/115   | -       |

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| Mol | Type | Chain | Res | Link | Chirals   | Torsions      | Rings   |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 17  | CLA  | B     | 820 | -    | 1/1/13/20 | 16/30/108/115 | -       |
| 17  | CLA  | F     | 303 | -    | 1/1/10/20 | 3/8/86/115    | -       |
| 17  | CLA  | 5     | 605 | -    | 1/1/11/20 | 8/13/91/115   | -       |
| 25  | ZEX  | 1     | 617 | -    | -         | 18/29/67/67   | 0/2/2/2 |
| 20  | BCR  | O     | 202 | -    | -         | 14/29/63/63   | 0/2/2/2 |
| 17  | CLA  | L     | 203 | -    | 1/1/15/20 | 14/37/115/115 | -       |
| 17  | CLA  | 5     | 604 | -    | 1/1/11/20 | 6/13/91/115   | -       |
| 17  | CLA  | A     | 802 | -    | 1/1/13/20 | 7/25/103/115  | -       |
| 17  | CLA  | 1     | 608 | -    | 1/1/14/20 | 9/31/109/115  | -       |
| 17  | CLA  | 2     | 603 | -    | 1/1/11/20 | 2/13/91/115   | -       |
| 20  | BCR  | B     | 845 | -    | -         | 16/29/63/63   | 0/2/2/2 |
| 21  | SF4  | A     | 847 | -    | -         | -             | 0/6/5/5 |
| 17  | CLA  | A     | 825 | -    | 1/1/15/20 | 9/37/115/115  | -       |
| 20  | BCR  | K     | 101 | -    | -         | 11/29/63/63   | 0/2/2/2 |
| 17  | CLA  | B     | 804 | -    | 1/1/15/20 | 17/37/115/115 | -       |
| 17  | CLA  | K     | 102 | -    | 1/1/11/20 | 5/13/91/115   | -       |
| 17  | CLA  | 3     | 212 | -    | 1/1/11/20 | 8/15/93/115   | -       |
| 19  | LHG  | A     | 841 | -    | -         | 27/53/53/53   | -       |
| 25  | ZEX  | 5     | 615 | -    | -         | 19/29/67/67   | 0/2/2/2 |
| 17  | CLA  | A     | 804 | -    | 1/1/15/20 | 14/37/115/115 | -       |
| 17  | CLA  | A     | 820 | -    | 1/1/11/20 | 5/18/96/115   | -       |
| 17  | CLA  | B     | 818 | -    | 1/1/10/20 | 4/10/88/115   | -       |
| 17  | CLA  | J     | 102 | -    | 1/1/13/20 | 8/29/107/115  | -       |
| 17  | CLA  | B     | 838 | -    | 1/1/14/20 | 18/31/109/115 | -       |
| 17  | CLA  | 2     | 611 | -    | 1/1/11/20 | 5/13/91/115   | -       |
| 17  | CLA  | 3     | 208 | -    | 1/1/11/20 | 8/13/91/115   | -       |
| 20  | BCR  | L     | 205 | -    | -         | 15/29/63/63   | 0/2/2/2 |
| 17  | CLA  | 2     | 602 | -    | 1/1/15/20 | 12/37/115/115 | -       |
| 17  | CLA  | A     | 822 | -    | 1/1/13/20 | 7/25/103/115  | -       |
| 17  | CLA  | A     | 811 | -    | 1/1/15/20 | 13/37/115/115 | -       |
| 17  | CLA  | 3     | 205 | -    | 1/1/11/20 | 7/13/91/115   | -       |
| 17  | CLA  | 4     | 610 | -    | 1/1/11/20 | 4/13/91/115   | -       |
| 20  | BCR  | A     | 846 | -    | -         | 18/29/63/63   | 0/2/2/2 |
| 23  | DGD  | B     | 851 | -    | -         | 30/55/95/95   | 0/2/2/2 |

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| Mol | Type | Chain | Res | Link | Chirals   | Torsions      | Rings   |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 25  | ZEX  | 4     | 613 | -    | -         | 16/29/67/67   | 0/2/2/2 |
| 25  | ZEX  | 4     | 612 | -    | -         | 19/29/67/67   | 0/2/2/2 |
| 17  | CLA  | 5     | 606 | -    | 1/1/11/20 | 3/13/91/115   | -       |
| 17  | CLA  | 2     | 607 | -    | 1/1/11/20 | 3/13/91/115   | -       |
| 17  | CLA  | 5     | 601 | -    | 1/1/11/20 | 6/13/91/115   | -       |
| 25  | ZEX  | 4     | 615 | -    | -         | 16/29/67/67   | 0/2/2/2 |
| 17  | CLA  | A     | 806 | 1    | 1/1/15/20 | 16/37/115/115 | -       |
| 17  | CLA  | F     | 302 | -    | 1/1/11/20 | 4/13/91/115   | -       |
| 20  | BCR  | L     | 201 | -    | -         | 18/29/63/63   | 0/2/2/2 |
| 20  | BCR  | B     | 850 | -    | -         | 15/29/63/63   | 0/2/2/2 |
| 17  | CLA  | B     | 840 | -    | 1/1/11/20 | 4/16/94/115   | -       |
| 17  | CLA  | 1     | 607 | -    | 1/1/11/20 | 7/13/91/115   | -       |
| 17  | CLA  | B     | 814 | -    | 1/1/13/20 | 10/25/101/115 | -       |
| 17  | CLA  | B     | 830 | -    | 1/1/15/20 | 21/37/115/115 | -       |
| 17  | CLA  | A     | 834 | -    | 1/1/11/20 | 8/13/91/115   | -       |
| 17  | CLA  | A     | 835 | -    | 1/1/12/20 | 10/21/99/115  | -       |
| 17  | CLA  | B     | 807 | -    | 1/1/11/20 | 7/13/91/115   | -       |
| 17  | CLA  | 3     | 207 | -    | 1/1/11/20 | 5/13/91/115   | -       |
| 17  | CLA  | 5     | 602 | -    | 1/1/11/20 | 7/13/91/115   | -       |
| 17  | CLA  | 5     | 609 | -    | 1/1/10/20 | 5/8/86/115    | -       |
| 17  | CLA  | 2     | 610 | -    | 1/1/10/20 | 5/10/88/115   | -       |
| 17  | CLA  | 3     | 206 | -    | 1/1/11/20 | 4/13/91/115   | -       |
| 25  | ZEX  | 3     | 214 | -    | -         | 14/29/67/67   | 0/2/2/2 |
| 17  | CLA  | 2     | 606 | -    | 1/1/11/20 | 7/13/91/115   | -       |
| 20  | BCR  | A     | 844 | -    | -         | 17/29/63/63   | 0/2/2/2 |
| 25  | ZEX  | 5     | 616 | -    | -         | 16/29/67/67   | 0/2/2/2 |
| 17  | CLA  | 2     | 613 | -    | 1/1/11/20 | 5/13/91/115   | -       |
| 17  | CLA  | 3     | 210 | -    | 1/1/10/20 | 5/8/86/115    | -       |
| 17  | CLA  | 1     | 611 | -    | 1/1/11/20 | 10/13/91/115  | -       |
| 17  | CLA  | 4     | 608 | -    | 1/1/11/20 | 6/13/91/115   | -       |
| 20  | BCR  | B     | 848 | -    | -         | 19/29/63/63   | 0/2/2/2 |
| 17  | CLA  | 4     | 602 | -    | 1/1/13/20 | 14/30/108/115 | -       |
| 17  | CLA  | B     | 837 | -    | 1/1/11/20 | 6/13/91/115   | -       |
| 17  | CLA  | A     | 824 | -    | 1/1/13/20 | 5/25/103/115  | -       |

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| Mol | Type | Chain | Res | Link | Chirals   | Torsions      | Rings   |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 17  | CLA  | O     | 205 | -    | 1/1/11/20 | 6/13/91/115   | -       |
| 17  | CLA  | 3     | 202 | -    | 1/1/11/20 | 5/13/91/115   | -       |
| 17  | CLA  | 2     | 612 | -    | 1/1/11/20 | 3/13/91/115   | -       |
| 17  | CLA  | B     | 832 | -    | 1/1/15/20 | 10/37/115/115 | -       |
| 17  | CLA  | B     | 831 | -    | 1/1/15/20 | 14/37/115/115 | -       |
| 17  | CLA  | B     | 834 | -    | 1/1/10/20 | 3/11/89/115   | -       |
| 17  | CLA  | J     | 101 | -    | 1/1/15/20 | 18/37/115/115 | -       |
| 17  | CLA  | B     | 815 | -    | 1/1/13/20 | 6/25/103/115  | -       |
| 18  | PQN  | A     | 840 | -    | -         | 11/23/43/43   | 0/2/2/2 |
| 17  | CLA  | A     | 819 | -    | 1/1/15/20 | 13/37/115/115 | -       |
| 25  | ZEX  | 4     | 617 | -    | -         | 18/29/67/67   | 0/2/2/2 |
| 17  | CLA  | B     | 828 | -    | 1/1/15/20 | 4/37/115/115  | -       |
| 25  | ZEX  | 2     | 614 | -    | -         | 18/29/67/67   | 0/2/2/2 |
| 17  | CLA  | B     | 841 | -    | 1/1/15/20 | 14/37/115/115 | -       |
| 17  | CLA  | A     | 826 | -    | 1/1/15/20 | 12/37/115/115 | -       |
| 17  | CLA  | A     | 810 | -    | 1/1/12/20 | 8/24/102/115  | -       |
| 17  | CLA  | O     | 203 | -    | 1/1/10/20 | 3/8/86/115    | -       |
| 17  | CLA  | B     | 813 | -    | 1/1/15/20 | 15/37/115/115 | -       |
| 17  | CLA  | 5     | 611 | -    | 1/1/11/20 | 7/13/91/115   | -       |
| 22  | BGC  | A     | 849 | 26   | -         | 2/2/19/22     | 0/1/1/1 |
| 17  | CLA  | B     | 802 | -    | 1/1/15/20 | 12/37/115/115 | -       |
| 17  | CLA  | A     | 816 | -    | 1/1/15/20 | 11/37/115/115 | -       |
| 17  | CLA  | A     | 813 | -    | 1/1/10/20 | 5/10/88/115   | -       |

All (2053) bond length outliers are listed below:

| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25  | 3     | 218 | ZEX  | C14-C13 | 15.85 | 1.56        | 1.35     |
| 25  | 2     | 616 | ZEX  | C14-C13 | 14.96 | 1.55        | 1.35     |
| 25  | 1     | 616 | ZEX  | C14-C13 | 14.67 | 1.55        | 1.35     |
| 25  | 3     | 201 | ZEX  | C14-C13 | 14.51 | 1.55        | 1.35     |
| 25  | 3     | 216 | ZEX  | C14-C13 | 14.50 | 1.55        | 1.35     |
| 25  | 4     | 614 | ZEX  | C14-C13 | 14.49 | 1.55        | 1.35     |
| 25  | 4     | 615 | ZEX  | C14-C13 | 14.46 | 1.54        | 1.35     |
| 25  | 5     | 615 | ZEX  | C14-C13 | 14.45 | 1.54        | 1.35     |
| 25  | 1     | 617 | ZEX  | C14-C13 | 14.44 | 1.54        | 1.35     |
| 25  | 1     | 614 | ZEX  | C14-C13 | 14.40 | 1.54        | 1.35     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25  | 4     | 616 | ZEX  | C14-C13 | 14.35 | 1.54        | 1.35     |
| 25  | 4     | 613 | ZEX  | C14-C13 | 14.35 | 1.54        | 1.35     |
| 25  | 4     | 617 | ZEX  | C14-C13 | 14.35 | 1.54        | 1.35     |
| 25  | 5     | 616 | ZEX  | C14-C13 | 14.34 | 1.54        | 1.35     |
| 25  | 3     | 217 | ZEX  | C14-C13 | 14.33 | 1.54        | 1.35     |
| 25  | 5     | 614 | ZEX  | C14-C13 | 14.21 | 1.54        | 1.35     |
| 25  | 3     | 218 | ZEX  | C10-C9  | 14.20 | 1.54        | 1.35     |
| 25  | 4     | 612 | ZEX  | C14-C13 | 14.20 | 1.54        | 1.35     |
| 25  | 2     | 614 | ZEX  | C14-C13 | 14.16 | 1.54        | 1.35     |
| 25  | 3     | 201 | ZEX  | C10-C9  | 14.10 | 1.54        | 1.35     |
| 25  | 1     | 613 | ZEX  | C14-C13 | 14.05 | 1.54        | 1.35     |
| 25  | 3     | 215 | ZEX  | C14-C13 | 13.98 | 1.54        | 1.35     |
| 25  | 1     | 613 | ZEX  | C10-C9  | 13.86 | 1.54        | 1.35     |
| 25  | 5     | 617 | ZEX  | C14-C13 | 13.83 | 1.54        | 1.35     |
| 25  | 5     | 615 | ZEX  | C10-C9  | 13.81 | 1.54        | 1.35     |
| 25  | 3     | 214 | ZEX  | C14-C13 | 13.81 | 1.54        | 1.35     |
| 25  | 2     | 615 | ZEX  | C14-C13 | 13.72 | 1.54        | 1.35     |
| 25  | 4     | 614 | ZEX  | C10-C9  | 13.68 | 1.53        | 1.35     |
| 25  | 1     | 615 | ZEX  | C14-C13 | 13.59 | 1.53        | 1.35     |
| 25  | 4     | 613 | ZEX  | C10-C9  | 13.50 | 1.53        | 1.35     |
| 25  | 4     | 615 | ZEX  | C10-C9  | 13.47 | 1.53        | 1.35     |
| 25  | 5     | 614 | ZEX  | C10-C9  | 13.42 | 1.53        | 1.35     |
| 25  | 4     | 612 | ZEX  | C10-C9  | 13.37 | 1.53        | 1.35     |
| 25  | 5     | 615 | ZEX  | C30-C29 | 13.36 | 1.53        | 1.35     |
| 25  | 2     | 617 | ZEX  | C14-C13 | 13.32 | 1.53        | 1.35     |
| 25  | 5     | 616 | ZEX  | C10-C9  | 13.31 | 1.53        | 1.35     |
| 25  | 3     | 217 | ZEX  | C10-C9  | 13.23 | 1.53        | 1.35     |
| 25  | 2     | 616 | ZEX  | C10-C9  | 13.18 | 1.53        | 1.35     |
| 25  | 3     | 216 | ZEX  | C10-C9  | 13.17 | 1.53        | 1.35     |
| 25  | 3     | 215 | ZEX  | C10-C9  | 13.16 | 1.53        | 1.35     |
| 25  | 3     | 218 | ZEX  | C34-C33 | 13.16 | 1.53        | 1.35     |
| 25  | 2     | 616 | ZEX  | C30-C29 | 13.13 | 1.53        | 1.35     |
| 25  | 4     | 616 | ZEX  | C10-C9  | 13.10 | 1.53        | 1.35     |
| 25  | 1     | 614 | ZEX  | C10-C9  | 13.07 | 1.53        | 1.35     |
| 25  | 4     | 617 | ZEX  | C10-C9  | 13.07 | 1.53        | 1.35     |
| 25  | 1     | 615 | ZEX  | C10-C9  | 13.04 | 1.53        | 1.35     |
| 25  | 4     | 617 | ZEX  | C30-C29 | 13.01 | 1.53        | 1.35     |
| 25  | 4     | 615 | ZEX  | C30-C29 | 12.99 | 1.53        | 1.35     |
| 25  | 1     | 616 | ZEX  | C10-C9  | 12.95 | 1.52        | 1.35     |
| 25  | 3     | 217 | ZEX  | C30-C29 | 12.94 | 1.52        | 1.35     |
| 25  | 3     | 214 | ZEX  | C10-C9  | 12.92 | 1.52        | 1.35     |
| 25  | 2     | 614 | ZEX  | C10-C9  | 12.90 | 1.52        | 1.35     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25  | 4     | 614 | ZEX  | C30-C29 | 12.89 | 1.52        | 1.35     |
| 25  | 5     | 616 | ZEX  | C30-C29 | 12.83 | 1.52        | 1.35     |
| 25  | 5     | 615 | ZEX  | C34-C33 | 12.80 | 1.52        | 1.35     |
| 25  | 2     | 617 | ZEX  | C10-C9  | 12.80 | 1.52        | 1.35     |
| 25  | 3     | 218 | ZEX  | C30-C29 | 12.79 | 1.52        | 1.35     |
| 25  | 5     | 617 | ZEX  | C10-C9  | 12.77 | 1.52        | 1.35     |
| 25  | 5     | 614 | ZEX  | C30-C29 | 12.76 | 1.52        | 1.35     |
| 25  | 5     | 617 | ZEX  | C30-C29 | 12.73 | 1.52        | 1.35     |
| 25  | 4     | 613 | ZEX  | C30-C29 | 12.66 | 1.52        | 1.35     |
| 25  | 2     | 615 | ZEX  | C10-C9  | 12.64 | 1.52        | 1.35     |
| 25  | 1     | 617 | ZEX  | C10-C9  | 12.60 | 1.52        | 1.35     |
| 25  | 4     | 612 | ZEX  | C34-C33 | 12.52 | 1.52        | 1.35     |
| 25  | 3     | 214 | ZEX  | C30-C29 | 12.51 | 1.52        | 1.35     |
| 25  | 1     | 616 | ZEX  | C30-C29 | 12.45 | 1.52        | 1.35     |
| 25  | 3     | 201 | ZEX  | C30-C29 | 12.40 | 1.52        | 1.35     |
| 25  | 5     | 616 | ZEX  | C34-C33 | 12.36 | 1.52        | 1.35     |
| 25  | 4     | 615 | ZEX  | C34-C33 | 12.33 | 1.52        | 1.35     |
| 25  | 3     | 216 | ZEX  | C30-C29 | 12.32 | 1.52        | 1.35     |
| 25  | 2     | 616 | ZEX  | C34-C33 | 12.31 | 1.52        | 1.35     |
| 25  | 1     | 615 | ZEX  | C30-C29 | 12.31 | 1.52        | 1.35     |
| 25  | 5     | 614 | ZEX  | C34-C33 | 12.27 | 1.52        | 1.35     |
| 25  | 4     | 616 | ZEX  | C30-C29 | 12.24 | 1.52        | 1.35     |
| 25  | 4     | 617 | ZEX  | C34-C33 | 12.24 | 1.52        | 1.35     |
| 25  | 3     | 217 | ZEX  | C34-C33 | 12.23 | 1.52        | 1.35     |
| 25  | 3     | 214 | ZEX  | C34-C33 | 12.22 | 1.52        | 1.35     |
| 25  | 4     | 612 | ZEX  | C30-C29 | 12.21 | 1.52        | 1.35     |
| 25  | 4     | 614 | ZEX  | C5-C6   | 12.19 | 1.55        | 1.34     |
| 25  | 5     | 617 | ZEX  | C34-C33 | 12.15 | 1.51        | 1.35     |
| 25  | 3     | 215 | ZEX  | C5-C6   | 12.15 | 1.55        | 1.34     |
| 25  | 5     | 614 | ZEX  | C5-C6   | 12.14 | 1.55        | 1.34     |
| 25  | 2     | 615 | ZEX  | C5-C6   | 12.12 | 1.55        | 1.34     |
| 25  | 3     | 201 | ZEX  | C34-C33 | 12.11 | 1.51        | 1.35     |
| 25  | 3     | 215 | ZEX  | C30-C29 | 12.09 | 1.51        | 1.35     |
| 25  | 3     | 214 | ZEX  | C5-C6   | 12.09 | 1.55        | 1.34     |
| 25  | 1     | 617 | ZEX  | C30-C29 | 12.07 | 1.51        | 1.35     |
| 25  | 1     | 614 | ZEX  | C30-C29 | 12.03 | 1.51        | 1.35     |
| 25  | 1     | 613 | ZEX  | C30-C29 | 12.03 | 1.51        | 1.35     |
| 25  | 3     | 218 | ZEX  | C5-C6   | 12.03 | 1.55        | 1.34     |
| 25  | 4     | 616 | ZEX  | C34-C33 | 12.01 | 1.51        | 1.35     |
| 25  | 2     | 614 | ZEX  | C34-C33 | 12.00 | 1.51        | 1.35     |
| 25  | 3     | 216 | ZEX  | C34-C33 | 12.00 | 1.51        | 1.35     |
| 25  | 1     | 616 | ZEX  | C34-C33 | 11.98 | 1.51        | 1.35     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25  | 4     | 614 | ZEX  | C34-C33 | 11.96 | 1.51        | 1.35     |
| 25  | 4     | 612 | ZEX  | C5-C6   | 11.95 | 1.55        | 1.34     |
| 25  | 5     | 615 | ZEX  | C5-C6   | 11.94 | 1.55        | 1.34     |
| 25  | 4     | 613 | ZEX  | C34-C33 | 11.94 | 1.51        | 1.35     |
| 25  | 2     | 614 | ZEX  | C5-C6   | 11.93 | 1.55        | 1.34     |
| 25  | 4     | 617 | ZEX  | C5-C6   | 11.92 | 1.55        | 1.34     |
| 25  | 1     | 613 | ZEX  | C34-C33 | 11.91 | 1.51        | 1.35     |
| 25  | 1     | 614 | ZEX  | C34-C33 | 11.91 | 1.51        | 1.35     |
| 25  | 2     | 614 | ZEX  | C30-C29 | 11.89 | 1.51        | 1.35     |
| 25  | 1     | 614 | ZEX  | C5-C6   | 11.88 | 1.55        | 1.34     |
| 25  | 5     | 616 | ZEX  | C5-C6   | 11.88 | 1.55        | 1.34     |
| 25  | 1     | 617 | ZEX  | C34-C33 | 11.86 | 1.51        | 1.35     |
| 25  | 4     | 615 | ZEX  | C5-C6   | 11.82 | 1.54        | 1.34     |
| 25  | 3     | 217 | ZEX  | C5-C6   | 11.82 | 1.54        | 1.34     |
| 25  | 2     | 617 | ZEX  | C30-C29 | 11.80 | 1.51        | 1.35     |
| 25  | 4     | 616 | ZEX  | C5-C6   | 11.80 | 1.54        | 1.34     |
| 25  | 3     | 216 | ZEX  | C5-C6   | 11.74 | 1.54        | 1.34     |
| 25  | 2     | 616 | ZEX  | C5-C6   | 11.65 | 1.54        | 1.34     |
| 25  | 2     | 617 | ZEX  | C5-C6   | 11.59 | 1.54        | 1.34     |
| 25  | 2     | 617 | ZEX  | C34-C33 | 11.56 | 1.51        | 1.35     |
| 25  | 1     | 616 | ZEX  | C5-C6   | 11.56 | 1.54        | 1.34     |
| 25  | 2     | 615 | ZEX  | C34-C33 | 11.53 | 1.51        | 1.35     |
| 25  | 3     | 201 | ZEX  | C5-C6   | 11.43 | 1.54        | 1.34     |
| 25  | 1     | 615 | ZEX  | C34-C33 | 11.43 | 1.50        | 1.35     |
| 25  | 3     | 215 | ZEX  | C34-C33 | 11.36 | 1.50        | 1.35     |
| 25  | 1     | 615 | ZEX  | C5-C6   | 11.35 | 1.54        | 1.34     |
| 25  | 1     | 617 | ZEX  | C5-C6   | 11.31 | 1.54        | 1.34     |
| 25  | 5     | 617 | ZEX  | C5-C6   | 11.20 | 1.53        | 1.34     |
| 25  | 4     | 613 | ZEX  | C5-C6   | 11.12 | 1.53        | 1.34     |
| 25  | 2     | 615 | ZEX  | C30-C29 | 11.09 | 1.50        | 1.35     |
| 25  | 1     | 613 | ZEX  | C5-C6   | 11.05 | 1.53        | 1.34     |
| 25  | 5     | 616 | ZEX  | C25-C26 | 10.79 | 1.53        | 1.33     |
| 25  | 5     | 615 | ZEX  | C25-C26 | 10.62 | 1.53        | 1.33     |
| 25  | 4     | 617 | ZEX  | C25-C26 | 10.55 | 1.53        | 1.33     |
| 25  | 3     | 201 | ZEX  | C25-C26 | 10.50 | 1.53        | 1.33     |
| 25  | 3     | 216 | ZEX  | C25-C26 | 10.39 | 1.53        | 1.33     |
| 25  | 4     | 612 | ZEX  | C25-C26 | 10.22 | 1.52        | 1.33     |
| 25  | 2     | 616 | ZEX  | C25-C26 | 10.21 | 1.52        | 1.33     |
| 25  | 3     | 214 | ZEX  | C25-C26 | 10.11 | 1.52        | 1.33     |
| 25  | 5     | 614 | ZEX  | C25-C26 | 10.10 | 1.52        | 1.33     |
| 25  | 4     | 614 | ZEX  | C25-C26 | 10.05 | 1.52        | 1.33     |
| 25  | 3     | 218 | ZEX  | C25-C26 | 10.02 | 1.52        | 1.33     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25  | 1     | 614 | ZEX  | C25-C26 | 10.01 | 1.52        | 1.33     |
| 25  | 4     | 616 | ZEX  | C25-C26 | 10.01 | 1.52        | 1.33     |
| 25  | 4     | 613 | ZEX  | C25-C26 | 9.95  | 1.52        | 1.33     |
| 25  | 4     | 615 | ZEX  | C25-C26 | 9.94  | 1.52        | 1.33     |
| 25  | 3     | 215 | ZEX  | C25-C26 | 9.92  | 1.52        | 1.33     |
| 25  | 5     | 617 | ZEX  | C25-C26 | 9.91  | 1.52        | 1.33     |
| 25  | 1     | 613 | ZEX  | C25-C26 | 9.86  | 1.52        | 1.33     |
| 25  | 1     | 616 | ZEX  | C25-C26 | 9.86  | 1.52        | 1.33     |
| 25  | 3     | 217 | ZEX  | C25-C26 | 9.82  | 1.52        | 1.33     |
| 25  | 1     | 617 | ZEX  | C25-C26 | 9.74  | 1.51        | 1.33     |
| 25  | 1     | 615 | ZEX  | C25-C26 | 9.67  | 1.51        | 1.33     |
| 25  | 2     | 617 | ZEX  | C25-C26 | 9.66  | 1.51        | 1.33     |
| 25  | 2     | 614 | ZEX  | C25-C26 | 9.48  | 1.51        | 1.33     |
| 25  | 2     | 615 | ZEX  | C25-C26 | 9.35  | 1.51        | 1.33     |
| 16  | A     | 801 | CL0  | C1B-NB  | -9.16 | 1.27        | 1.35     |
| 16  | A     | 801 | CL0  | C1D-ND  | -8.30 | 1.27        | 1.37     |
| 18  | A     | 840 | PQN  | C12-C13 | 8.16  | 1.52        | 1.33     |
| 18  | B     | 844 | PQN  | C12-C13 | 8.06  | 1.52        | 1.33     |
| 18  | B     | 844 | PQN  | O4-C4   | 7.98  | 1.40        | 1.23     |
| 18  | A     | 840 | PQN  | O4-C4   | 7.91  | 1.40        | 1.23     |
| 17  | 5     | 607 | CLA  | C4B-NB  | 7.78  | 1.42        | 1.35     |
| 16  | A     | 801 | CL0  | C4B-NB  | -7.58 | 1.28        | 1.35     |
| 18  | A     | 840 | PQN  | O1-C1   | 7.56  | 1.39        | 1.23     |
| 17  | 4     | 605 | CLA  | C4B-NB  | 7.52  | 1.41        | 1.35     |
| 18  | B     | 844 | PQN  | O1-C1   | 7.49  | 1.39        | 1.23     |
| 17  | 5     | 602 | CLA  | C4B-NB  | 7.42  | 1.41        | 1.35     |
| 17  | 5     | 611 | CLA  | C4B-NB  | 7.40  | 1.41        | 1.35     |
| 17  | 4     | 610 | CLA  | C4B-NB  | 7.39  | 1.41        | 1.35     |
| 17  | A     | 834 | CLA  | C4B-NB  | 7.37  | 1.41        | 1.35     |
| 17  | 1     | 605 | CLA  | C4B-NB  | 7.35  | 1.41        | 1.35     |
| 17  | 4     | 609 | CLA  | C4B-NB  | 7.34  | 1.41        | 1.35     |
| 17  | 4     | 611 | CLA  | C4B-NB  | 7.31  | 1.41        | 1.35     |
| 17  | 5     | 613 | CLA  | C4B-NB  | 7.29  | 1.41        | 1.35     |
| 17  | B     | 835 | CLA  | C4B-NB  | 7.26  | 1.41        | 1.35     |
| 17  | 5     | 609 | CLA  | C4B-NB  | 7.24  | 1.41        | 1.35     |
| 17  | 3     | 206 | CLA  | C4B-NB  | 7.22  | 1.41        | 1.35     |
| 17  | 4     | 606 | CLA  | C4B-NB  | 7.15  | 1.41        | 1.35     |
| 17  | 5     | 605 | CLA  | C4B-NB  | 7.15  | 1.41        | 1.35     |
| 17  | 5     | 612 | CLA  | C4B-NB  | 7.15  | 1.41        | 1.35     |
| 17  | 5     | 601 | CLA  | C4B-NB  | 7.11  | 1.41        | 1.35     |
| 17  | 4     | 604 | CLA  | C4B-NB  | 7.11  | 1.41        | 1.35     |
| 17  | 2     | 613 | CLA  | C4B-NB  | 7.09  | 1.41        | 1.35     |

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| Mol | Chain | Res | Type | Atoms  | Z    | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|--------|------|-------------|----------|
| 17  | O     | 205 | CLA  | C4B-NB | 7.07 | 1.41        | 1.35     |
| 17  | 4     | 608 | CLA  | C4B-NB | 7.06 | 1.41        | 1.35     |
| 17  | 2     | 602 | CLA  | C4B-NB | 7.05 | 1.41        | 1.35     |
| 17  | O     | 203 | CLA  | C4B-NB | 7.04 | 1.41        | 1.35     |
| 17  | 1     | 610 | CLA  | C4B-NB | 7.02 | 1.41        | 1.35     |
| 17  | L     | 202 | CLA  | C4B-NB | 7.01 | 1.41        | 1.35     |
| 17  | 4     | 602 | CLA  | C4B-NB | 7.00 | 1.41        | 1.35     |
| 17  | A     | 821 | CLA  | C4B-NB | 6.98 | 1.41        | 1.35     |
| 17  | 4     | 607 | CLA  | C4B-NB | 6.95 | 1.41        | 1.35     |
| 17  | 4     | 601 | CLA  | C4B-NB | 6.94 | 1.41        | 1.35     |
| 17  | O     | 204 | CLA  | C4B-NB | 6.93 | 1.41        | 1.35     |
| 17  | 3     | 210 | CLA  | C4B-NB | 6.90 | 1.41        | 1.35     |
| 17  | 3     | 211 | CLA  | C4B-NB | 6.90 | 1.41        | 1.35     |
| 17  | 3     | 212 | CLA  | C4B-NB | 6.88 | 1.41        | 1.35     |
| 17  | 3     | 205 | CLA  | C4B-NB | 6.87 | 1.41        | 1.35     |
| 17  | 5     | 604 | CLA  | C4B-NB | 6.87 | 1.41        | 1.35     |
| 17  | B     | 813 | CLA  | C4B-NB | 6.85 | 1.41        | 1.35     |
| 17  | B     | 818 | CLA  | C4B-NB | 6.84 | 1.41        | 1.35     |
| 17  | B     | 837 | CLA  | C4B-NB | 6.83 | 1.41        | 1.35     |
| 17  | 3     | 202 | CLA  | C4B-NB | 6.79 | 1.41        | 1.35     |
| 17  | 2     | 610 | CLA  | C4B-NB | 6.76 | 1.41        | 1.35     |
| 17  | 2     | 612 | CLA  | C4B-NB | 6.76 | 1.41        | 1.35     |
| 17  | 1     | 612 | CLA  | C4B-NB | 6.75 | 1.41        | 1.35     |
| 17  | 5     | 610 | CLA  | C4B-NB | 6.73 | 1.41        | 1.35     |
| 17  | 1     | 609 | CLA  | C4B-NB | 6.73 | 1.41        | 1.35     |
| 17  | 3     | 204 | CLA  | C4B-NB | 6.72 | 1.41        | 1.35     |
| 17  | B     | 824 | CLA  | C4B-NB | 6.70 | 1.41        | 1.35     |
| 17  | 5     | 603 | CLA  | C4B-NB | 6.70 | 1.41        | 1.35     |
| 17  | 5     | 608 | CLA  | C4B-NB | 6.68 | 1.41        | 1.35     |
| 17  | 2     | 609 | CLA  | C4B-NB | 6.68 | 1.41        | 1.35     |
| 17  | A     | 820 | CLA  | C4B-NB | 6.68 | 1.41        | 1.35     |
| 17  | 2     | 606 | CLA  | C4B-NB | 6.67 | 1.41        | 1.35     |
| 17  | 4     | 603 | CLA  | C4B-NB | 6.65 | 1.41        | 1.35     |
| 17  | B     | 843 | CLA  | C4B-NB | 6.63 | 1.41        | 1.35     |
| 17  | 1     | 608 | CLA  | C4B-NB | 6.63 | 1.41        | 1.35     |
| 17  | B     | 831 | CLA  | C4B-NB | 6.62 | 1.41        | 1.35     |
| 17  | B     | 823 | CLA  | C4B-NB | 6.61 | 1.41        | 1.35     |
| 17  | F     | 302 | CLA  | C4B-NB | 6.58 | 1.41        | 1.35     |
| 17  | 3     | 209 | CLA  | C4B-NB | 6.57 | 1.41        | 1.35     |
| 17  | 2     | 611 | CLA  | C4B-NB | 6.57 | 1.41        | 1.35     |
| 17  | B     | 815 | CLA  | C4B-NB | 6.56 | 1.41        | 1.35     |
| 17  | B     | 826 | CLA  | C4B-NB | 6.53 | 1.41        | 1.35     |

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| Mol | Chain | Res | Type | Atoms  | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|--------|-------|-------------|----------|
| 17  | A     | 808 | CLA  | C4B-NB | 6.52  | 1.41        | 1.35     |
| 17  | B     | 829 | CLA  | C4B-NB | 6.52  | 1.41        | 1.35     |
| 17  | 3     | 213 | CLA  | C4B-NB | 6.51  | 1.41        | 1.35     |
| 17  | B     | 825 | CLA  | C4B-NB | 6.48  | 1.41        | 1.35     |
| 17  | 3     | 208 | CLA  | C4B-NB | 6.47  | 1.41        | 1.35     |
| 17  | A     | 818 | CLA  | C4B-NB | 6.47  | 1.41        | 1.35     |
| 17  | A     | 814 | CLA  | C4B-NB | 6.47  | 1.41        | 1.35     |
| 17  | O     | 201 | CLA  | C4B-NB | 6.46  | 1.41        | 1.35     |
| 17  | A     | 829 | CLA  | C4B-NB | 6.43  | 1.40        | 1.35     |
| 17  | A     | 833 | CLA  | C4B-NB | 6.42  | 1.40        | 1.35     |
| 17  | F     | 303 | CLA  | C4B-NB | 6.39  | 1.40        | 1.35     |
| 17  | K     | 102 | CLA  | C4B-NB | 6.39  | 1.40        | 1.35     |
| 17  | 3     | 207 | CLA  | C4B-NB | 6.38  | 1.40        | 1.35     |
| 17  | J     | 103 | CLA  | C4B-NB | 6.37  | 1.40        | 1.35     |
| 17  | A     | 810 | CLA  | C4B-NB | 6.37  | 1.40        | 1.35     |
| 17  | A     | 819 | CLA  | C4B-NB | 6.37  | 1.40        | 1.35     |
| 17  | 2     | 601 | CLA  | C4B-NB | 6.37  | 1.40        | 1.35     |
| 17  | B     | 814 | CLA  | C4B-NB | 6.35  | 1.40        | 1.35     |
| 17  | K     | 103 | CLA  | C4B-NB | 6.34  | 1.40        | 1.35     |
| 17  | 3     | 203 | CLA  | C4B-NB | 6.34  | 1.40        | 1.35     |
| 17  | 1     | 603 | CLA  | C4B-NB | 6.33  | 1.40        | 1.35     |
| 17  | B     | 807 | CLA  | C4B-NB | 6.32  | 1.40        | 1.35     |
| 17  | B     | 820 | CLA  | C4B-NB | 6.30  | 1.40        | 1.35     |
| 17  | B     | 836 | CLA  | C4B-NB | 6.29  | 1.40        | 1.35     |
| 17  | A     | 827 | CLA  | C4B-NB | 6.29  | 1.40        | 1.35     |
| 17  | B     | 833 | CLA  | C4B-NB | 6.28  | 1.40        | 1.35     |
| 17  | B     | 834 | CLA  | C4B-NB | 6.27  | 1.40        | 1.35     |
| 17  | 2     | 608 | CLA  | C4B-NB | 6.27  | 1.40        | 1.35     |
| 17  | B     | 812 | CLA  | C4B-NB | 6.25  | 1.40        | 1.35     |
| 17  | A     | 830 | CLA  | C4B-NB | 6.25  | 1.40        | 1.35     |
| 17  | B     | 808 | CLA  | C4B-NB | 6.25  | 1.40        | 1.35     |
| 17  | L     | 203 | CLA  | C4B-NB | 6.25  | 1.40        | 1.35     |
| 17  | 2     | 605 | CLA  | C4B-NB | 6.24  | 1.40        | 1.35     |
| 17  | B     | 839 | CLA  | C4B-NB | 6.23  | 1.40        | 1.35     |
| 17  | B     | 842 | CLA  | C4B-NB | 6.23  | 1.40        | 1.35     |
| 16  | A     | 801 | CL0  | C1C-NC | -6.22 | 1.28        | 1.37     |
| 17  | L     | 204 | CLA  | C4B-NB | 6.22  | 1.40        | 1.35     |
| 17  | A     | 836 | CLA  | C4B-NB | 6.21  | 1.40        | 1.35     |
| 17  | A     | 813 | CLA  | C4B-NB | 6.20  | 1.40        | 1.35     |
| 17  | 1     | 606 | CLA  | C4B-NB | 6.19  | 1.40        | 1.35     |
| 17  | A     | 815 | CLA  | C4B-NB | 6.19  | 1.40        | 1.35     |
| 17  | B     | 819 | CLA  | C4B-NB | 6.18  | 1.40        | 1.35     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | A     | 809 | CLA  | C4B-NB  | 6.18  | 1.40        | 1.35     |
| 17  | A     | 828 | CLA  | C4B-NB  | 6.16  | 1.40        | 1.35     |
| 17  | A     | 839 | CLA  | C4B-NB  | 6.16  | 1.40        | 1.35     |
| 17  | A     | 831 | CLA  | C4B-NB  | 6.15  | 1.40        | 1.35     |
| 17  | 1     | 611 | CLA  | C4B-NB  | 6.15  | 1.40        | 1.35     |
| 17  | 2     | 607 | CLA  | C4B-NB  | 6.15  | 1.40        | 1.35     |
| 17  | 1     | 601 | CLA  | C4B-NB  | 6.13  | 1.40        | 1.35     |
| 17  | A     | 805 | CLA  | C4B-NB  | 6.12  | 1.40        | 1.35     |
| 17  | B     | 841 | CLA  | C4B-NB  | 6.12  | 1.40        | 1.35     |
| 17  | B     | 810 | CLA  | C4B-NB  | 6.11  | 1.40        | 1.35     |
| 17  | B     | 803 | CLA  | C4B-NB  | 6.11  | 1.40        | 1.35     |
| 17  | J     | 101 | CLA  | C4B-NB  | 6.11  | 1.40        | 1.35     |
| 17  | B     | 822 | CLA  | C4B-NB  | 6.09  | 1.40        | 1.35     |
| 17  | B     | 811 | CLA  | C4B-NB  | 6.09  | 1.40        | 1.35     |
| 17  | 2     | 603 | CLA  | C4B-NB  | 6.09  | 1.40        | 1.35     |
| 17  | A     | 802 | CLA  | C4B-NB  | 6.08  | 1.40        | 1.35     |
| 25  | 5     | 614 | ZEX  | C27-C26 | 6.07  | 1.52        | 1.46     |
| 17  | F     | 301 | CLA  | C4B-NB  | 6.04  | 1.40        | 1.35     |
| 16  | A     | 801 | CL0  | CMA-C3A | -6.04 | 1.40        | 1.53     |
| 17  | 1     | 604 | CLA  | C4B-NB  | 6.04  | 1.40        | 1.35     |
| 17  | B     | 817 | CLA  | C4B-NB  | 6.03  | 1.40        | 1.35     |
| 17  | A     | 803 | CLA  | C4B-NB  | 5.99  | 1.40        | 1.35     |
| 17  | A     | 817 | CLA  | C4B-NB  | 5.99  | 1.40        | 1.35     |
| 17  | B     | 827 | CLA  | C4B-NB  | 5.99  | 1.40        | 1.35     |
| 17  | A     | 823 | CLA  | C4B-NB  | 5.98  | 1.40        | 1.35     |
| 17  | A     | 838 | CLA  | C4B-NB  | 5.96  | 1.40        | 1.35     |
| 17  | 1     | 607 | CLA  | C4B-NB  | 5.96  | 1.40        | 1.35     |
| 17  | B     | 832 | CLA  | C4B-NB  | 5.96  | 1.40        | 1.35     |
| 17  | A     | 825 | CLA  | C4B-NB  | 5.95  | 1.40        | 1.35     |
| 17  | B     | 821 | CLA  | C4B-NB  | 5.94  | 1.40        | 1.35     |
| 17  | A     | 804 | CLA  | C4B-NB  | 5.93  | 1.40        | 1.35     |
| 17  | 5     | 606 | CLA  | C4B-NB  | 5.87  | 1.40        | 1.35     |
| 17  | 1     | 602 | CLA  | C4B-NB  | 5.80  | 1.40        | 1.35     |
| 17  | B     | 840 | CLA  | C4B-NB  | 5.79  | 1.40        | 1.35     |
| 17  | 2     | 604 | CLA  | C4B-NB  | 5.77  | 1.40        | 1.35     |
| 17  | A     | 807 | CLA  | C4B-NB  | 5.76  | 1.40        | 1.35     |
| 17  | A     | 806 | CLA  | C4B-NB  | 5.75  | 1.40        | 1.35     |
| 17  | A     | 837 | CLA  | C4B-NB  | 5.72  | 1.40        | 1.35     |
| 17  | B     | 809 | CLA  | C4B-NB  | 5.71  | 1.40        | 1.35     |
| 17  | A     | 824 | CLA  | C4B-NB  | 5.71  | 1.40        | 1.35     |
| 17  | J     | 102 | CLA  | C4B-NB  | 5.71  | 1.40        | 1.35     |
| 25  | 3     | 201 | ZEX  | C27-C26 | 5.70  | 1.52        | 1.46     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | A     | 812 | CLA  | C4B-NB  | 5.69  | 1.40        | 1.35     |
| 17  | A     | 822 | CLA  | C4B-NB  | 5.68  | 1.40        | 1.35     |
| 25  | 2     | 616 | ZEX  | C27-C26 | 5.67  | 1.52        | 1.46     |
| 25  | 3     | 218 | ZEX  | C27-C26 | 5.61  | 1.52        | 1.46     |
| 17  | B     | 806 | CLA  | C4B-NB  | 5.60  | 1.40        | 1.35     |
| 25  | 5     | 616 | ZEX  | C27-C26 | 5.60  | 1.52        | 1.46     |
| 17  | B     | 828 | CLA  | C4B-NB  | 5.59  | 1.40        | 1.35     |
| 17  | A     | 811 | CLA  | C4B-NB  | 5.58  | 1.40        | 1.35     |
| 17  | B     | 804 | CLA  | C4B-NB  | 5.57  | 1.40        | 1.35     |
| 17  | A     | 835 | CLA  | C4B-NB  | 5.54  | 1.40        | 1.35     |
| 17  | B     | 838 | CLA  | C4B-NB  | 5.40  | 1.40        | 1.35     |
| 17  | B     | 816 | CLA  | C4B-NB  | 5.40  | 1.40        | 1.35     |
| 17  | B     | 801 | CLA  | C4B-NB  | 5.39  | 1.40        | 1.35     |
| 17  | A     | 848 | CLA  | C4B-NB  | 5.37  | 1.40        | 1.35     |
| 17  | A     | 826 | CLA  | C4B-NB  | 5.36  | 1.40        | 1.35     |
| 17  | A     | 816 | CLA  | C4B-NB  | 5.31  | 1.39        | 1.35     |
| 25  | 4     | 617 | ZEX  | C27-C26 | 5.19  | 1.51        | 1.46     |
| 25  | 4     | 612 | ZEX  | C27-C26 | 5.15  | 1.51        | 1.46     |
| 17  | A     | 832 | CLA  | C4B-NB  | 5.06  | 1.39        | 1.35     |
| 25  | 5     | 615 | ZEX  | C27-C26 | 5.05  | 1.51        | 1.46     |
| 16  | A     | 801 | CL0  | C3D-C4D | -5.02 | 1.32        | 1.44     |
| 25  | 5     | 617 | ZEX  | C27-C26 | 5.00  | 1.51        | 1.46     |
| 25  | 4     | 614 | ZEX  | C27-C26 | 4.95  | 1.51        | 1.46     |
| 17  | B     | 830 | CLA  | C4B-NB  | 4.93  | 1.39        | 1.35     |
| 25  | 4     | 615 | ZEX  | C27-C26 | 4.90  | 1.51        | 1.46     |
| 25  | 1     | 616 | ZEX  | C27-C26 | 4.83  | 1.51        | 1.46     |
| 25  | 3     | 217 | ZEX  | C27-C26 | 4.83  | 1.51        | 1.46     |
| 17  | A     | 828 | CLA  | CMB-C2B | -4.82 | 1.41        | 1.51     |
| 25  | 3     | 216 | ZEX  | C27-C26 | 4.79  | 1.51        | 1.46     |
| 25  | 4     | 616 | ZEX  | C27-C26 | 4.76  | 1.51        | 1.46     |
| 25  | 1     | 614 | ZEX  | C27-C26 | 4.66  | 1.51        | 1.46     |
| 16  | A     | 801 | CL0  | C2A-C1A | -4.55 | 1.42        | 1.52     |
| 25  | 4     | 613 | ZEX  | C27-C26 | 4.54  | 1.51        | 1.46     |
| 25  | 2     | 616 | ZEX  | C28-C29 | 4.51  | 1.55        | 1.45     |
| 17  | B     | 838 | CLA  | C4D-ND  | -4.50 | 1.31        | 1.37     |
| 16  | A     | 801 | CL0  | C3A-C2A | -4.48 | 1.41        | 1.54     |
| 25  | 1     | 613 | ZEX  | C27-C26 | 4.48  | 1.51        | 1.46     |
| 16  | A     | 801 | CL0  | MG-ND   | -4.46 | 1.96        | 2.05     |
| 25  | 3     | 214 | ZEX  | C27-C26 | 4.46  | 1.51        | 1.46     |
| 25  | 1     | 615 | ZEX  | C27-C26 | 4.44  | 1.51        | 1.46     |
| 17  | B     | 832 | CLA  | CMB-C2B | -4.41 | 1.42        | 1.51     |
| 25  | 2     | 616 | ZEX  | C24-C25 | 4.33  | 1.54        | 1.50     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | 5     | 609 | CLA  | C1D-ND  | 4.33  | 1.43        | 1.37     |
| 17  | B     | 802 | CLA  | C4B-NB  | 4.33  | 1.39        | 1.35     |
| 25  | 3     | 215 | ZEX  | C27-C26 | 4.32  | 1.50        | 1.46     |
| 17  | A     | 825 | CLA  | C4D-ND  | -4.32 | 1.31        | 1.37     |
| 17  | 5     | 606 | CLA  | CMD-C2D | -4.32 | 1.41        | 1.50     |
| 25  | 3     | 218 | ZEX  | C28-C29 | 4.31  | 1.55        | 1.45     |
| 17  | B     | 802 | CLA  | C4D-ND  | -4.26 | 1.31        | 1.37     |
| 25  | 3     | 214 | ZEX  | C24-C25 | 4.23  | 1.54        | 1.50     |
| 25  | 5     | 615 | ZEX  | C24-C25 | 4.22  | 1.54        | 1.50     |
| 17  | A     | 824 | CLA  | C4D-ND  | -4.19 | 1.31        | 1.37     |
| 25  | 2     | 615 | ZEX  | C27-C26 | 4.18  | 1.50        | 1.46     |
| 17  | B     | 830 | CLA  | C4D-ND  | -4.14 | 1.32        | 1.37     |
| 25  | 1     | 617 | ZEX  | C27-C26 | 4.12  | 1.50        | 1.46     |
| 16  | A     | 801 | CL0  | CMD-C2D | -4.11 | 1.42        | 1.50     |
| 25  | 4     | 614 | ZEX  | C7-C6   | 4.11  | 1.59        | 1.45     |
| 25  | 3     | 201 | ZEX  | C7-C6   | 4.10  | 1.59        | 1.45     |
| 25  | 3     | 218 | ZEX  | C7-C6   | 4.09  | 1.59        | 1.45     |
| 25  | 5     | 615 | ZEX  | C35-C34 | 4.09  | 1.56        | 1.43     |
| 25  | 1     | 613 | ZEX  | C24-C25 | 4.08  | 1.54        | 1.50     |
| 18  | A     | 840 | PQN  | C2-C1   | -4.08 | 1.39        | 1.48     |
| 17  | 4     | 611 | CLA  | C1D-ND  | 4.06  | 1.42        | 1.37     |
| 17  | 2     | 608 | CLA  | C4D-ND  | -4.06 | 1.32        | 1.37     |
| 17  | B     | 802 | CLA  | C3B-C2B | -4.05 | 1.34        | 1.40     |
| 18  | B     | 844 | PQN  | C2-C1   | -4.05 | 1.39        | 1.48     |
| 17  | A     | 807 | CLA  | C4D-ND  | -4.05 | 1.32        | 1.37     |
| 17  | A     | 803 | CLA  | C4D-ND  | -4.04 | 1.32        | 1.37     |
| 17  | B     | 840 | CLA  | C4D-ND  | -4.04 | 1.32        | 1.37     |
| 25  | 4     | 612 | ZEX  | C7-C6   | 4.04  | 1.59        | 1.45     |
| 17  | A     | 828 | CLA  | C4D-ND  | -4.03 | 1.32        | 1.37     |
| 17  | B     | 802 | CLA  | C3B-CAB | -4.03 | 1.39        | 1.47     |
| 17  | B     | 839 | CLA  | C4D-ND  | -4.03 | 1.32        | 1.37     |
| 17  | B     | 831 | CLA  | CMB-C2B | -4.03 | 1.43        | 1.51     |
| 17  | A     | 816 | CLA  | C4D-ND  | -4.02 | 1.32        | 1.37     |
| 25  | 5     | 616 | ZEX  | C28-C29 | 4.02  | 1.54        | 1.45     |
| 25  | 4     | 615 | ZEX  | C28-C29 | 4.01  | 1.54        | 1.45     |
| 25  | 1     | 617 | ZEX  | C7-C6   | 4.00  | 1.59        | 1.45     |
| 17  | K     | 103 | CLA  | C4D-ND  | -4.00 | 1.32        | 1.37     |
| 25  | 3     | 218 | ZEX  | C35-C34 | 3.99  | 1.55        | 1.43     |
| 17  | A     | 822 | CLA  | C4D-ND  | -3.98 | 1.32        | 1.37     |
| 25  | 2     | 617 | ZEX  | C27-C26 | 3.98  | 1.50        | 1.46     |
| 17  | B     | 822 | CLA  | C4D-ND  | -3.97 | 1.32        | 1.37     |
| 25  | 5     | 617 | ZEX  | C28-C29 | 3.97  | 1.54        | 1.45     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25  | 4     | 615 | ZEX  | C7-C6   | 3.97  | 1.59        | 1.45     |
| 25  | 5     | 616 | ZEX  | C7-C6   | 3.97  | 1.59        | 1.45     |
| 20  | A     | 845 | BCR  | C30-C25 | -3.96 | 1.48        | 1.53     |
| 17  | A     | 811 | CLA  | C4D-ND  | -3.96 | 1.32        | 1.37     |
| 25  | 5     | 615 | ZEX  | C7-C6   | 3.95  | 1.59        | 1.45     |
| 17  | A     | 848 | CLA  | C4D-ND  | -3.94 | 1.32        | 1.37     |
| 17  | A     | 817 | CLA  | CMB-C2B | -3.94 | 1.43        | 1.51     |
| 17  | 4     | 605 | CLA  | C1D-ND  | 3.93  | 1.42        | 1.37     |
| 17  | B     | 816 | CLA  | C4D-ND  | -3.93 | 1.32        | 1.37     |
| 25  | 2     | 616 | ZEX  | C7-C6   | 3.92  | 1.59        | 1.45     |
| 17  | 4     | 610 | CLA  | C1D-ND  | 3.92  | 1.42        | 1.37     |
| 17  | B     | 814 | CLA  | C4D-ND  | -3.92 | 1.32        | 1.37     |
| 25  | 4     | 613 | ZEX  | C7-C6   | 3.92  | 1.59        | 1.45     |
| 17  | A     | 826 | CLA  | C4D-ND  | -3.91 | 1.32        | 1.37     |
| 17  | A     | 819 | CLA  | C4D-ND  | -3.91 | 1.32        | 1.37     |
| 25  | 5     | 614 | ZEX  | C7-C6   | 3.91  | 1.59        | 1.45     |
| 17  | A     | 831 | CLA  | C4D-ND  | -3.90 | 1.32        | 1.37     |
| 17  | B     | 809 | CLA  | C4D-ND  | -3.90 | 1.32        | 1.37     |
| 17  | B     | 834 | CLA  | C4D-ND  | -3.90 | 1.32        | 1.37     |
| 25  | 1     | 614 | ZEX  | C24-C25 | 3.90  | 1.54        | 1.50     |
| 17  | B     | 804 | CLA  | C4D-ND  | -3.90 | 1.32        | 1.37     |
| 25  | 4     | 616 | ZEX  | C7-C6   | 3.90  | 1.58        | 1.45     |
| 25  | 5     | 617 | ZEX  | C7-C6   | 3.89  | 1.58        | 1.45     |
| 17  | B     | 814 | CLA  | CAB-C3B | -3.89 | 1.43        | 1.51     |
| 17  | B     | 827 | CLA  | C4D-ND  | -3.89 | 1.32        | 1.37     |
| 17  | A     | 835 | CLA  | C4D-ND  | -3.89 | 1.32        | 1.37     |
| 25  | 1     | 614 | ZEX  | C7-C6   | 3.88  | 1.58        | 1.45     |
| 25  | 3     | 215 | ZEX  | C7-C6   | 3.88  | 1.58        | 1.45     |
| 25  | 2     | 616 | ZEX  | C35-C34 | 3.88  | 1.55        | 1.43     |
| 25  | 5     | 614 | ZEX  | C28-C29 | 3.88  | 1.54        | 1.45     |
| 17  | 5     | 601 | CLA  | C1D-ND  | 3.87  | 1.42        | 1.37     |
| 25  | 2     | 615 | ZEX  | C7-C6   | 3.86  | 1.58        | 1.45     |
| 25  | 3     | 214 | ZEX  | C7-C6   | 3.86  | 1.58        | 1.45     |
| 17  | L     | 203 | CLA  | C4D-ND  | -3.86 | 1.32        | 1.37     |
| 25  | 2     | 614 | ZEX  | C7-C6   | 3.86  | 1.58        | 1.45     |
| 25  | 1     | 616 | ZEX  | C7-C6   | 3.86  | 1.58        | 1.45     |
| 25  | 5     | 616 | ZEX  | C24-C25 | 3.84  | 1.54        | 1.50     |
| 17  | A     | 830 | CLA  | C4D-ND  | -3.84 | 1.32        | 1.37     |
| 25  | 4     | 617 | ZEX  | C7-C6   | 3.84  | 1.58        | 1.45     |
| 17  | A     | 837 | CLA  | C4D-ND  | -3.84 | 1.32        | 1.37     |
| 17  | B     | 835 | CLA  | C4D-ND  | -3.84 | 1.32        | 1.37     |
| 25  | 3     | 216 | ZEX  | C7-C6   | 3.83  | 1.58        | 1.45     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | 1     | 602 | CLA  | C4D-ND  | -3.83 | 1.32        | 1.37     |
| 20  | J     | 105 | BCR  | C30-C25 | -3.83 | 1.48        | 1.53     |
| 25  | 2     | 616 | ZEX  | C31-C30 | 3.83  | 1.55        | 1.43     |
| 25  | 2     | 614 | ZEX  | C35-C34 | 3.83  | 1.55        | 1.43     |
| 17  | 3     | 208 | CLA  | C1D-ND  | 3.83  | 1.42        | 1.37     |
| 17  | 2     | 602 | CLA  | C4D-ND  | -3.82 | 1.32        | 1.37     |
| 17  | B     | 841 | CLA  | C4D-ND  | -3.82 | 1.32        | 1.37     |
| 16  | A     | 801 | CL0  | CAA-C2A | -3.82 | 1.47        | 1.54     |
| 25  | 3     | 217 | ZEX  | C7-C6   | 3.82  | 1.58        | 1.45     |
| 17  | B     | 836 | CLA  | C4D-ND  | -3.82 | 1.32        | 1.37     |
| 17  | 4     | 601 | CLA  | C1D-ND  | 3.81  | 1.42        | 1.37     |
| 17  | 5     | 607 | CLA  | C3B-C2B | -3.81 | 1.35        | 1.40     |
| 25  | 4     | 617 | ZEX  | C24-C25 | 3.81  | 1.54        | 1.50     |
| 25  | 5     | 615 | ZEX  | C28-C29 | 3.80  | 1.54        | 1.45     |
| 17  | A     | 804 | CLA  | C4D-ND  | -3.80 | 1.32        | 1.37     |
| 17  | B     | 806 | CLA  | C4D-ND  | -3.79 | 1.32        | 1.37     |
| 17  | J     | 101 | CLA  | C4D-ND  | -3.79 | 1.32        | 1.37     |
| 25  | 5     | 616 | ZEX  | C35-C34 | 3.79  | 1.55        | 1.43     |
| 17  | B     | 804 | CLA  | C3B-C2B | -3.79 | 1.35        | 1.40     |
| 25  | 1     | 613 | ZEX  | C7-C6   | 3.78  | 1.58        | 1.45     |
| 17  | A     | 827 | CLA  | CMB-C2B | -3.78 | 1.43        | 1.51     |
| 17  | 3     | 204 | CLA  | C4D-ND  | -3.78 | 1.32        | 1.37     |
| 17  | 5     | 613 | CLA  | C1D-ND  | 3.78  | 1.42        | 1.37     |
| 25  | 1     | 616 | ZEX  | C28-C29 | 3.78  | 1.54        | 1.45     |
| 20  | J     | 105 | BCR  | C1-C6   | -3.78 | 1.48        | 1.53     |
| 17  | O     | 203 | CLA  | C1D-ND  | 3.78  | 1.42        | 1.37     |
| 25  | 3     | 216 | ZEX  | C28-C29 | 3.77  | 1.54        | 1.45     |
| 17  | 5     | 610 | CLA  | C1D-ND  | 3.77  | 1.42        | 1.37     |
| 17  | A     | 813 | CLA  | C4D-ND  | -3.77 | 1.32        | 1.37     |
| 25  | 3     | 201 | ZEX  | C35-C34 | 3.77  | 1.55        | 1.43     |
| 17  | B     | 810 | CLA  | C4D-ND  | -3.76 | 1.32        | 1.37     |
| 25  | 3     | 217 | ZEX  | C28-C29 | 3.75  | 1.54        | 1.45     |
| 17  | O     | 204 | CLA  | C1D-ND  | 3.75  | 1.42        | 1.37     |
| 17  | A     | 836 | CLA  | C4D-ND  | -3.75 | 1.32        | 1.37     |
| 17  | 4     | 604 | CLA  | C1D-ND  | 3.74  | 1.42        | 1.37     |
| 17  | 2     | 604 | CLA  | C4D-ND  | -3.74 | 1.32        | 1.37     |
| 20  | O     | 202 | BCR  | C30-C25 | -3.74 | 1.48        | 1.53     |
| 25  | 4     | 614 | ZEX  | C28-C29 | 3.74  | 1.54        | 1.45     |
| 17  | 4     | 609 | CLA  | C1D-ND  | 3.74  | 1.42        | 1.37     |
| 25  | 1     | 615 | ZEX  | C7-C6   | 3.73  | 1.58        | 1.45     |
| 17  | O     | 201 | CLA  | C4D-ND  | -3.73 | 1.32        | 1.37     |
| 17  | B     | 826 | CLA  | C4D-ND  | -3.72 | 1.32        | 1.37     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | 3     | 205 | CLA  | C4D-ND  | -3.72 | 1.32        | 1.37     |
| 20  | A     | 846 | BCR  | C30-C25 | -3.72 | 1.48        | 1.53     |
| 25  | 4     | 617 | ZEX  | C35-C34 | 3.72  | 1.55        | 1.43     |
| 25  | 2     | 614 | ZEX  | C27-C26 | 3.72  | 1.50        | 1.46     |
| 17  | B     | 831 | CLA  | C4D-ND  | -3.72 | 1.32        | 1.37     |
| 17  | 5     | 608 | CLA  | C1D-ND  | 3.72  | 1.42        | 1.37     |
| 17  | 1     | 612 | CLA  | C1D-ND  | 3.72  | 1.42        | 1.37     |
| 17  | B     | 812 | CLA  | C4D-ND  | -3.71 | 1.32        | 1.37     |
| 17  | 3     | 203 | CLA  | C4D-ND  | -3.70 | 1.32        | 1.37     |
| 17  | 1     | 603 | CLA  | C4D-ND  | -3.70 | 1.32        | 1.37     |
| 17  | 1     | 608 | CLA  | C4D-ND  | -3.70 | 1.32        | 1.37     |
| 17  | B     | 829 | CLA  | C4D-ND  | -3.69 | 1.32        | 1.37     |
| 25  | 4     | 613 | ZEX  | C8-C9   | 3.69  | 1.53        | 1.45     |
| 17  | B     | 818 | CLA  | C4D-ND  | -3.69 | 1.32        | 1.37     |
| 25  | 5     | 614 | ZEX  | C35-C34 | 3.69  | 1.54        | 1.43     |
| 17  | 1     | 605 | CLA  | C1D-ND  | 3.68  | 1.42        | 1.37     |
| 17  | 2     | 609 | CLA  | C1D-ND  | 3.68  | 1.42        | 1.37     |
| 17  | J     | 102 | CLA  | C4D-ND  | -3.68 | 1.32        | 1.37     |
| 17  | 2     | 601 | CLA  | C4D-ND  | -3.68 | 1.32        | 1.37     |
| 17  | A     | 833 | CLA  | C4D-ND  | -3.68 | 1.32        | 1.37     |
| 25  | 3     | 216 | ZEX  | C35-C34 | 3.67  | 1.54        | 1.43     |
| 17  | B     | 842 | CLA  | CMB-C2B | -3.67 | 1.44        | 1.51     |
| 17  | A     | 806 | CLA  | C4D-ND  | -3.67 | 1.32        | 1.37     |
| 17  | B     | 814 | CLA  | CMB-C2B | -3.66 | 1.44        | 1.51     |
| 17  | B     | 833 | CLA  | C4D-ND  | -3.66 | 1.32        | 1.37     |
| 25  | 4     | 614 | ZEX  | C35-C34 | 3.66  | 1.54        | 1.43     |
| 17  | A     | 838 | CLA  | C4D-ND  | -3.66 | 1.32        | 1.37     |
| 25  | 1     | 613 | ZEX  | C35-C34 | 3.65  | 1.54        | 1.43     |
| 17  | B     | 812 | CLA  | CMB-C2B | -3.65 | 1.44        | 1.51     |
| 17  | B     | 825 | CLA  | C4D-ND  | -3.65 | 1.32        | 1.37     |
| 25  | 4     | 615 | ZEX  | C35-C34 | 3.65  | 1.54        | 1.43     |
| 17  | 4     | 608 | CLA  | C1D-ND  | 3.65  | 1.42        | 1.37     |
| 17  | B     | 828 | CLA  | C4D-ND  | -3.65 | 1.32        | 1.37     |
| 17  | 3     | 208 | CLA  | C4D-ND  | -3.64 | 1.32        | 1.37     |
| 25  | 4     | 612 | ZEX  | C35-C34 | 3.64  | 1.54        | 1.43     |
| 25  | 4     | 613 | ZEX  | C28-C29 | 3.64  | 1.53        | 1.45     |
| 20  | L     | 201 | BCR  | C1-C6   | -3.64 | 1.48        | 1.53     |
| 20  | K     | 101 | BCR  | C1-C6   | -3.63 | 1.48        | 1.53     |
| 25  | 1     | 617 | ZEX  | C35-C34 | 3.63  | 1.54        | 1.43     |
| 17  | 2     | 603 | CLA  | C4D-ND  | -3.63 | 1.32        | 1.37     |
| 25  | 1     | 616 | ZEX  | C35-C34 | 3.63  | 1.54        | 1.43     |
| 17  | 5     | 611 | CLA  | C1D-ND  | 3.63  | 1.42        | 1.37     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | B     | 815 | CLA  | C4D-ND  | -3.63 | 1.32        | 1.37     |
| 17  | 5     | 612 | CLA  | C1D-ND  | 3.63  | 1.42        | 1.37     |
| 17  | L     | 204 | CLA  | C4D-ND  | -3.63 | 1.32        | 1.37     |
| 17  | A     | 808 | CLA  | C4D-ND  | -3.62 | 1.32        | 1.37     |
| 17  | A     | 815 | CLA  | C4D-ND  | -3.62 | 1.32        | 1.37     |
| 25  | 3     | 217 | ZEX  | C35-C34 | 3.62  | 1.54        | 1.43     |
| 17  | B     | 806 | CLA  | C3B-C2B | -3.61 | 1.35        | 1.40     |
| 17  | A     | 814 | CLA  | C4D-ND  | -3.61 | 1.32        | 1.37     |
| 17  | A     | 818 | CLA  | C4D-ND  | -3.61 | 1.32        | 1.37     |
| 18  | B     | 844 | PQN  | C10-C1  | -3.61 | 1.41        | 1.48     |
| 17  | 3     | 206 | CLA  | CMB-C2B | -3.61 | 1.44        | 1.51     |
| 17  | A     | 829 | CLA  | C4D-ND  | -3.61 | 1.32        | 1.37     |
| 25  | 4     | 615 | ZEX  | C8-C9   | 3.61  | 1.53        | 1.45     |
| 25  | 4     | 616 | ZEX  | C35-C34 | 3.61  | 1.54        | 1.43     |
| 17  | F     | 301 | CLA  | C4D-ND  | -3.61 | 1.32        | 1.37     |
| 17  | A     | 810 | CLA  | C4D-ND  | -3.61 | 1.32        | 1.37     |
| 17  | A     | 809 | CLA  | C4D-ND  | -3.60 | 1.32        | 1.37     |
| 20  | B     | 847 | BCR  | C30-C25 | -3.60 | 1.48        | 1.53     |
| 17  | B     | 823 | CLA  | C4D-ND  | -3.60 | 1.32        | 1.37     |
| 20  | A     | 845 | BCR  | C1-C6   | -3.59 | 1.48        | 1.53     |
| 25  | 3     | 218 | ZEX  | C24-C25 | 3.59  | 1.54        | 1.50     |
| 17  | B     | 832 | CLA  | C4D-ND  | -3.59 | 1.32        | 1.37     |
| 17  | 1     | 611 | CLA  | C4D-ND  | -3.59 | 1.32        | 1.37     |
| 17  | 4     | 607 | CLA  | C1D-ND  | 3.59  | 1.42        | 1.37     |
| 17  | B     | 808 | CLA  | C4D-ND  | -3.59 | 1.32        | 1.37     |
| 25  | 3     | 218 | ZEX  | C8-C9   | 3.59  | 1.53        | 1.45     |
| 17  | A     | 823 | CLA  | C4D-ND  | -3.59 | 1.32        | 1.37     |
| 17  | B     | 843 | CLA  | C4D-ND  | -3.58 | 1.32        | 1.37     |
| 17  | A     | 814 | CLA  | C1D-ND  | 3.58  | 1.42        | 1.37     |
| 25  | 3     | 214 | ZEX  | C28-C29 | 3.58  | 1.53        | 1.45     |
| 20  | A     | 846 | BCR  | C1-C6   | -3.58 | 1.48        | 1.53     |
| 25  | 1     | 613 | ZEX  | C28-C29 | 3.58  | 1.53        | 1.45     |
| 17  | A     | 836 | CLA  | CMB-C2B | -3.58 | 1.44        | 1.51     |
| 17  | A     | 827 | CLA  | C4D-ND  | -3.57 | 1.32        | 1.37     |
| 17  | B     | 813 | CLA  | C4D-ND  | -3.57 | 1.32        | 1.37     |
| 25  | 5     | 616 | ZEX  | C31-C30 | 3.57  | 1.54        | 1.43     |
| 25  | 3     | 214 | ZEX  | C35-C34 | 3.57  | 1.54        | 1.43     |
| 17  | 2     | 607 | CLA  | C1D-ND  | 3.56  | 1.42        | 1.37     |
| 25  | 5     | 615 | ZEX  | C31-C30 | 3.56  | 1.54        | 1.43     |
| 25  | 4     | 617 | ZEX  | C28-C29 | 3.55  | 1.53        | 1.45     |
| 17  | B     | 842 | CLA  | C4D-ND  | -3.55 | 1.32        | 1.37     |
| 17  | 2     | 606 | CLA  | C4D-ND  | -3.55 | 1.32        | 1.37     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25  | 4     | 613 | ZEX  | C35-C34 | 3.55  | 1.54        | 1.43     |
| 17  | B     | 801 | CLA  | C4D-ND  | -3.55 | 1.32        | 1.37     |
| 17  | 5     | 605 | CLA  | C1D-ND  | 3.55  | 1.42        | 1.37     |
| 16  | A     | 801 | CL0  | C3A-C4A | -3.55 | 1.40        | 1.51     |
| 25  | 2     | 617 | ZEX  | C35-C34 | 3.54  | 1.54        | 1.43     |
| 25  | 5     | 617 | ZEX  | C35-C34 | 3.54  | 1.54        | 1.43     |
| 20  | B     | 805 | BCR  | C30-C25 | -3.53 | 1.48        | 1.53     |
| 17  | F     | 302 | CLA  | C4D-ND  | -3.52 | 1.32        | 1.37     |
| 17  | A     | 817 | CLA  | C3B-C2B | -3.52 | 1.35        | 1.40     |
| 17  | 3     | 209 | CLA  | C4D-ND  | -3.52 | 1.32        | 1.37     |
| 17  | 1     | 604 | CLA  | C4D-ND  | -3.52 | 1.32        | 1.37     |
| 17  | A     | 848 | CLA  | CMC-C2C | -3.52 | 1.43        | 1.50     |
| 17  | B     | 824 | CLA  | C4D-ND  | -3.51 | 1.32        | 1.37     |
| 17  | 1     | 607 | CLA  | CMD-C2D | -3.51 | 1.43        | 1.50     |
| 25  | 3     | 216 | ZEX  | C24-C25 | 3.51  | 1.53        | 1.50     |
| 18  | B     | 844 | PQN  | C3-C4   | -3.51 | 1.38        | 1.47     |
| 17  | A     | 827 | CLA  | C3B-C2B | -3.51 | 1.35        | 1.40     |
| 25  | 3     | 201 | ZEX  | C24-C25 | 3.51  | 1.53        | 1.50     |
| 25  | 4     | 612 | ZEX  | C28-C29 | 3.50  | 1.53        | 1.45     |
| 25  | 3     | 218 | ZEX  | C15-C14 | 3.50  | 1.54        | 1.43     |
| 25  | 2     | 617 | ZEX  | C7-C6   | 3.50  | 1.57        | 1.45     |
| 17  | 4     | 603 | CLA  | C1D-ND  | 3.49  | 1.42        | 1.37     |
| 17  | 2     | 607 | CLA  | C4D-ND  | -3.49 | 1.32        | 1.37     |
| 17  | B     | 835 | CLA  | C3B-C2B | -3.49 | 1.35        | 1.40     |
| 17  | B     | 828 | CLA  | CMD-C2D | -3.49 | 1.43        | 1.50     |
| 25  | 3     | 215 | ZEX  | C24-C25 | 3.49  | 1.53        | 1.50     |
| 17  | B     | 843 | CLA  | C1D-ND  | 3.49  | 1.42        | 1.37     |
| 17  | 4     | 602 | CLA  | C4D-ND  | -3.48 | 1.32        | 1.37     |
| 25  | 4     | 616 | ZEX  | C28-C29 | 3.48  | 1.53        | 1.45     |
| 25  | 3     | 214 | ZEX  | C31-C30 | 3.48  | 1.54        | 1.43     |
| 17  | A     | 812 | CLA  | C4D-ND  | -3.48 | 1.32        | 1.37     |
| 17  | 5     | 607 | CLA  | CHC-C1C | 3.48  | 1.43        | 1.35     |
| 17  | 3     | 207 | CLA  | C4D-ND  | -3.48 | 1.32        | 1.37     |
| 25  | 3     | 218 | ZEX  | C31-C30 | 3.47  | 1.54        | 1.43     |
| 17  | B     | 807 | CLA  | C4D-ND  | -3.47 | 1.32        | 1.37     |
| 17  | B     | 803 | CLA  | C4D-ND  | -3.47 | 1.32        | 1.37     |
| 17  | 5     | 608 | CLA  | C4D-ND  | -3.47 | 1.32        | 1.37     |
| 17  | K     | 102 | CLA  | C4D-ND  | -3.47 | 1.32        | 1.37     |
| 25  | 4     | 614 | ZEX  | C8-C9   | 3.47  | 1.53        | 1.45     |
| 25  | 3     | 218 | ZEX  | C11-C10 | 3.47  | 1.54        | 1.43     |
| 17  | B     | 820 | CLA  | C4D-ND  | -3.47 | 1.32        | 1.37     |
| 17  | A     | 828 | CLA  | C3B-C2B | -3.46 | 1.35        | 1.40     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | A     | 834 | CLA  | C4D-ND  | -3.46 | 1.32        | 1.37     |
| 17  | A     | 820 | CLA  | C4D-ND  | -3.46 | 1.32        | 1.37     |
| 17  | B     | 821 | CLA  | C4D-ND  | -3.46 | 1.32        | 1.37     |
| 17  | B     | 836 | CLA  | C1D-ND  | 3.46  | 1.42        | 1.37     |
| 17  | A     | 817 | CLA  | C4D-ND  | -3.46 | 1.32        | 1.37     |
| 25  | 3     | 201 | ZEX  | C28-C29 | 3.45  | 1.53        | 1.45     |
| 17  | A     | 832 | CLA  | C4D-ND  | -3.45 | 1.32        | 1.37     |
| 25  | 1     | 614 | ZEX  | C31-C30 | 3.45  | 1.54        | 1.43     |
| 25  | 1     | 614 | ZEX  | C35-C34 | 3.45  | 1.54        | 1.43     |
| 25  | 3     | 217 | ZEX  | C31-C30 | 3.45  | 1.54        | 1.43     |
| 20  | L     | 201 | BCR  | C30-C25 | -3.45 | 1.49        | 1.53     |
| 20  | J     | 104 | BCR  | C1-C6   | -3.44 | 1.49        | 1.53     |
| 17  | 2     | 612 | CLA  | C4D-ND  | -3.44 | 1.33        | 1.37     |
| 17  | B     | 817 | CLA  | C4D-ND  | -3.44 | 1.33        | 1.37     |
| 17  | 3     | 213 | CLA  | C1D-ND  | 3.44  | 1.42        | 1.37     |
| 17  | A     | 805 | CLA  | C4D-ND  | -3.44 | 1.33        | 1.37     |
| 17  | B     | 802 | CLA  | CMB-C2B | -3.44 | 1.44        | 1.51     |
| 17  | J     | 102 | CLA  | C1D-ND  | 3.44  | 1.42        | 1.37     |
| 25  | 1     | 615 | ZEX  | C28-C29 | 3.44  | 1.53        | 1.45     |
| 17  | 5     | 607 | CLA  | C1D-ND  | 3.44  | 1.42        | 1.37     |
| 17  | A     | 839 | CLA  | C4D-ND  | -3.43 | 1.33        | 1.37     |
| 17  | 3     | 210 | CLA  | C1D-ND  | 3.43  | 1.42        | 1.37     |
| 17  | 3     | 211 | CLA  | C1D-ND  | 3.43  | 1.42        | 1.37     |
| 20  | B     | 849 | BCR  | C30-C25 | -3.42 | 1.49        | 1.53     |
| 25  | 3     | 215 | ZEX  | C35-C34 | 3.42  | 1.54        | 1.43     |
| 17  | J     | 103 | CLA  | C4D-ND  | -3.42 | 1.33        | 1.37     |
| 20  | F     | 304 | BCR  | C30-C25 | -3.42 | 1.49        | 1.53     |
| 17  | B     | 839 | CLA  | C3B-C2B | -3.42 | 1.35        | 1.40     |
| 17  | F     | 303 | CLA  | C4D-ND  | -3.42 | 1.33        | 1.37     |
| 25  | 4     | 613 | ZEX  | C31-C30 | 3.41  | 1.54        | 1.43     |
| 25  | 4     | 614 | ZEX  | C31-C30 | 3.41  | 1.54        | 1.43     |
| 17  | 5     | 603 | CLA  | C1D-ND  | 3.41  | 1.42        | 1.37     |
| 17  | 2     | 613 | CLA  | C1D-ND  | 3.41  | 1.42        | 1.37     |
| 17  | B     | 811 | CLA  | C4D-ND  | -3.41 | 1.33        | 1.37     |
| 17  | B     | 819 | CLA  | C4D-ND  | -3.41 | 1.33        | 1.37     |
| 17  | B     | 820 | CLA  | CMB-C2B | -3.40 | 1.44        | 1.51     |
| 17  | O     | 205 | CLA  | C1D-ND  | 3.40  | 1.42        | 1.37     |
| 17  | B     | 822 | CLA  | CMB-C2B | -3.40 | 1.44        | 1.51     |
| 17  | 5     | 603 | CLA  | C4D-ND  | -3.40 | 1.33        | 1.37     |
| 18  | A     | 840 | PQN  | C3-C4   | -3.39 | 1.38        | 1.47     |
| 17  | 2     | 610 | CLA  | C1D-ND  | 3.39  | 1.42        | 1.37     |
| 17  | 1     | 609 | CLA  | C4D-ND  | -3.39 | 1.33        | 1.37     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | B     | 804 | CLA  | CHC-C1C | 3.39  | 1.43        | 1.35     |
| 17  | 1     | 606 | CLA  | C4D-ND  | -3.39 | 1.33        | 1.37     |
| 16  | A     | 801 | CL0  | CMB-C2B | -3.39 | 1.44        | 1.51     |
| 25  | 4     | 615 | ZEX  | C31-C30 | 3.39  | 1.53        | 1.43     |
| 17  | 3     | 202 | CLA  | C1D-ND  | 3.38  | 1.41        | 1.37     |
| 25  | 5     | 614 | ZEX  | C31-C30 | 3.38  | 1.53        | 1.43     |
| 25  | 5     | 616 | ZEX  | C8-C9   | 3.38  | 1.53        | 1.45     |
| 20  | A     | 843 | BCR  | C1-C6   | -3.38 | 1.49        | 1.53     |
| 17  | O     | 203 | CLA  | C4D-ND  | -3.38 | 1.33        | 1.37     |
| 25  | 2     | 615 | ZEX  | C35-C34 | 3.38  | 1.53        | 1.43     |
| 25  | 4     | 617 | ZEX  | C31-C30 | 3.38  | 1.53        | 1.43     |
| 17  | A     | 834 | CLA  | C1D-ND  | 3.38  | 1.41        | 1.37     |
| 25  | 1     | 615 | ZEX  | C31-C30 | 3.37  | 1.53        | 1.43     |
| 17  | 1     | 610 | CLA  | C4D-ND  | -3.36 | 1.33        | 1.37     |
| 25  | 3     | 216 | ZEX  | C31-C30 | 3.36  | 1.53        | 1.43     |
| 25  | 3     | 201 | ZEX  | C11-C10 | 3.36  | 1.53        | 1.43     |
| 17  | B     | 839 | CLA  | CMB-C2B | -3.36 | 1.44        | 1.51     |
| 25  | 1     | 614 | ZEX  | C8-C9   | 3.36  | 1.53        | 1.45     |
| 17  | L     | 202 | CLA  | C4D-ND  | -3.35 | 1.33        | 1.37     |
| 17  | A     | 821 | CLA  | C4D-ND  | -3.35 | 1.33        | 1.37     |
| 17  | 1     | 607 | CLA  | C4D-ND  | -3.35 | 1.33        | 1.37     |
| 25  | 3     | 201 | ZEX  | C31-C30 | 3.34  | 1.53        | 1.43     |
| 17  | 2     | 611 | CLA  | C4D-ND  | -3.34 | 1.33        | 1.37     |
| 17  | A     | 821 | CLA  | C1D-ND  | 3.33  | 1.41        | 1.37     |
| 17  | 2     | 608 | CLA  | C1D-ND  | 3.33  | 1.41        | 1.37     |
| 17  | 3     | 212 | CLA  | C1D-ND  | 3.33  | 1.41        | 1.37     |
| 17  | 2     | 612 | CLA  | C1D-ND  | 3.33  | 1.41        | 1.37     |
| 25  | 1     | 616 | ZEX  | C31-C30 | 3.33  | 1.53        | 1.43     |
| 25  | 4     | 616 | ZEX  | C31-C30 | 3.32  | 1.53        | 1.43     |
| 17  | 1     | 601 | CLA  | C1D-ND  | 3.32  | 1.41        | 1.37     |
| 20  | L     | 206 | BCR  | C1-C6   | -3.32 | 1.49        | 1.53     |
| 17  | K     | 103 | CLA  | C1D-ND  | 3.32  | 1.41        | 1.37     |
| 17  | L     | 202 | CLA  | C1D-ND  | 3.31  | 1.41        | 1.37     |
| 17  | B     | 837 | CLA  | C4D-ND  | -3.31 | 1.33        | 1.37     |
| 25  | 2     | 617 | ZEX  | C28-C29 | 3.31  | 1.53        | 1.45     |
| 17  | 2     | 605 | CLA  | C4D-ND  | -3.31 | 1.33        | 1.37     |
| 25  | 3     | 201 | ZEX  | C8-C9   | 3.31  | 1.53        | 1.45     |
| 25  | 5     | 617 | ZEX  | C31-C30 | 3.31  | 1.53        | 1.43     |
| 17  | 2     | 604 | CLA  | C1D-ND  | 3.31  | 1.41        | 1.37     |
| 25  | 1     | 615 | ZEX  | C35-C34 | 3.31  | 1.53        | 1.43     |
| 17  | B     | 825 | CLA  | CMB-C2B | -3.29 | 1.44        | 1.51     |
| 18  | A     | 840 | PQN  | C10-C1  | -3.29 | 1.41        | 1.48     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | A     | 839 | CLA  | CMB-C2B | -3.29 | 1.44        | 1.51     |
| 17  | 3     | 211 | CLA  | C4D-ND  | -3.29 | 1.33        | 1.37     |
| 25  | 5     | 616 | ZEX  | C11-C10 | 3.28  | 1.53        | 1.43     |
| 25  | 4     | 613 | ZEX  | C11-C10 | 3.28  | 1.53        | 1.43     |
| 25  | 2     | 614 | ZEX  | C28-C29 | 3.28  | 1.53        | 1.45     |
| 25  | 5     | 615 | ZEX  | C8-C9   | 3.28  | 1.53        | 1.45     |
| 20  | O     | 202 | BCR  | C1-C6   | -3.28 | 1.49        | 1.53     |
| 17  | B     | 816 | CLA  | C1D-ND  | 3.28  | 1.41        | 1.37     |
| 17  | 4     | 611 | CLA  | CHC-C1C | 3.28  | 1.43        | 1.35     |
| 25  | 1     | 613 | ZEX  | C31-C30 | 3.27  | 1.53        | 1.43     |
| 17  | B     | 838 | CLA  | C3B-C2B | -3.27 | 1.35        | 1.40     |
| 17  | A     | 802 | CLA  | C4D-ND  | -3.27 | 1.33        | 1.37     |
| 25  | 5     | 615 | ZEX  | C32-C33 | 3.26  | 1.53        | 1.45     |
| 25  | 1     | 617 | ZEX  | C28-C29 | 3.26  | 1.52        | 1.45     |
| 25  | 2     | 616 | ZEX  | C32-C33 | 3.26  | 1.52        | 1.45     |
| 17  | 2     | 613 | CLA  | C4D-ND  | -3.26 | 1.33        | 1.37     |
| 17  | 3     | 213 | CLA  | C4D-ND  | -3.25 | 1.33        | 1.37     |
| 25  | 1     | 613 | ZEX  | C11-C10 | 3.25  | 1.53        | 1.43     |
| 17  | 3     | 205 | CLA  | C1D-ND  | 3.25  | 1.41        | 1.37     |
| 17  | 5     | 602 | CLA  | C4D-ND  | -3.25 | 1.33        | 1.37     |
| 25  | 3     | 201 | ZEX  | C15-C14 | 3.24  | 1.53        | 1.43     |
| 17  | A     | 810 | CLA  | C1D-ND  | 3.24  | 1.41        | 1.37     |
| 25  | 2     | 616 | ZEX  | C15-C14 | 3.24  | 1.53        | 1.43     |
| 17  | 1     | 603 | CLA  | CMB-C2B | -3.24 | 1.44        | 1.51     |
| 25  | 4     | 612 | ZEX  | C31-C30 | 3.24  | 1.53        | 1.43     |
| 17  | 5     | 604 | CLA  | C4D-ND  | -3.24 | 1.33        | 1.37     |
| 17  | 5     | 606 | CLA  | C1D-ND  | 3.24  | 1.41        | 1.37     |
| 17  | B     | 831 | CLA  | C3B-C2B | -3.24 | 1.35        | 1.40     |
| 20  | B     | 850 | BCR  | C30-C25 | -3.24 | 1.49        | 1.53     |
| 17  | A     | 805 | CLA  | C1D-ND  | 3.23  | 1.41        | 1.37     |
| 25  | 2     | 617 | ZEX  | C31-C30 | 3.23  | 1.53        | 1.43     |
| 17  | 5     | 602 | CLA  | C1D-ND  | 3.23  | 1.41        | 1.37     |
| 25  | 2     | 616 | ZEX  | C11-C10 | 3.23  | 1.53        | 1.43     |
| 25  | 4     | 612 | ZEX  | C11-C10 | 3.22  | 1.53        | 1.43     |
| 25  | 4     | 615 | ZEX  | C11-C10 | 3.22  | 1.53        | 1.43     |
| 16  | A     | 801 | CL0  | CBD-CGD | -3.22 | 1.42        | 1.52     |
| 25  | 2     | 615 | ZEX  | C28-C29 | 3.22  | 1.52        | 1.45     |
| 17  | 2     | 610 | CLA  | C4D-ND  | -3.21 | 1.33        | 1.37     |
| 17  | A     | 804 | CLA  | C1D-ND  | 3.21  | 1.41        | 1.37     |
| 17  | A     | 832 | CLA  | C1D-ND  | 3.21  | 1.41        | 1.37     |
| 25  | 5     | 615 | ZEX  | C11-C10 | 3.21  | 1.53        | 1.43     |
| 25  | 2     | 614 | ZEX  | C15-C14 | 3.21  | 1.53        | 1.43     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | B     | 832 | CLA  | CMD-C2D | -3.21 | 1.44        | 1.50     |
| 20  | I     | 101 | BCR  | C30-C25 | -3.21 | 1.49        | 1.53     |
| 17  | 3     | 202 | CLA  | C4D-ND  | -3.20 | 1.33        | 1.37     |
| 17  | 1     | 610 | CLA  | C1D-ND  | 3.20  | 1.41        | 1.37     |
| 17  | 4     | 609 | CLA  | C4D-ND  | -3.20 | 1.33        | 1.37     |
| 17  | 3     | 203 | CLA  | CHC-C1C | 3.20  | 1.43        | 1.35     |
| 17  | A     | 819 | CLA  | CMB-C2B | -3.20 | 1.45        | 1.51     |
| 17  | A     | 827 | CLA  | CMD-C2D | -3.20 | 1.44        | 1.50     |
| 17  | 4     | 605 | CLA  | CHC-C1C | 3.20  | 1.43        | 1.35     |
| 17  | 1     | 601 | CLA  | C4D-ND  | -3.19 | 1.33        | 1.37     |
| 25  | 1     | 617 | ZEX  | C8-C9   | 3.19  | 1.52        | 1.45     |
| 25  | 3     | 218 | ZEX  | C1-C6   | 3.19  | 1.58        | 1.53     |
| 17  | 4     | 602 | CLA  | CHC-C1C | 3.19  | 1.43        | 1.35     |
| 25  | 2     | 615 | ZEX  | C8-C9   | 3.19  | 1.52        | 1.45     |
| 17  | B     | 837 | CLA  | C1D-ND  | 3.19  | 1.41        | 1.37     |
| 25  | 3     | 215 | ZEX  | C31-C30 | 3.19  | 1.53        | 1.43     |
| 17  | 4     | 604 | CLA  | C4D-ND  | -3.18 | 1.33        | 1.37     |
| 17  | A     | 836 | CLA  | C3B-C2B | -3.18 | 1.36        | 1.40     |
| 17  | A     | 822 | CLA  | C1D-ND  | 3.18  | 1.41        | 1.37     |
| 16  | A     | 801 | CL0  | MG-NC   | -3.18 | 1.98        | 2.06     |
| 17  | 2     | 608 | CLA  | CHC-C1C | 3.18  | 1.43        | 1.35     |
| 25  | 3     | 218 | ZEX  | C12-C13 | 3.18  | 1.52        | 1.45     |
| 25  | 5     | 617 | ZEX  | C8-C9   | 3.18  | 1.52        | 1.45     |
| 17  | A     | 827 | CLA  | CHC-C1C | 3.18  | 1.43        | 1.35     |
| 25  | 3     | 217 | ZEX  | C8-C9   | 3.17  | 1.52        | 1.45     |
| 17  | 5     | 611 | CLA  | C4D-ND  | -3.16 | 1.33        | 1.37     |
| 17  | 3     | 207 | CLA  | C1D-ND  | 3.16  | 1.41        | 1.37     |
| 17  | 1     | 604 | CLA  | C1D-ND  | 3.16  | 1.41        | 1.37     |
| 17  | 2     | 601 | CLA  | C1D-ND  | 3.16  | 1.41        | 1.37     |
| 17  | 4     | 608 | CLA  | CHC-C1C | 3.16  | 1.43        | 1.35     |
| 25  | 3     | 217 | ZEX  | C11-C10 | 3.16  | 1.53        | 1.43     |
| 25  | 1     | 617 | ZEX  | C31-C30 | 3.16  | 1.53        | 1.43     |
| 17  | B     | 802 | CLA  | MG-ND   | -3.15 | 1.99        | 2.05     |
| 17  | 5     | 611 | CLA  | CHC-C1C | 3.15  | 1.43        | 1.35     |
| 17  | F     | 303 | CLA  | C1D-ND  | 3.15  | 1.41        | 1.37     |
| 25  | 3     | 218 | ZEX  | C32-C33 | 3.15  | 1.52        | 1.45     |
| 25  | 3     | 214 | ZEX  | C32-C33 | 3.15  | 1.52        | 1.45     |
| 17  | 4     | 603 | CLA  | C4D-ND  | -3.14 | 1.33        | 1.37     |
| 25  | 1     | 616 | ZEX  | C11-C10 | 3.14  | 1.53        | 1.43     |
| 17  | B     | 808 | CLA  | C3B-C2B | -3.14 | 1.36        | 1.40     |
| 25  | 5     | 615 | ZEX  | C15-C14 | 3.14  | 1.53        | 1.43     |
| 17  | B     | 827 | CLA  | CMB-C2B | -3.13 | 1.45        | 1.51     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | A     | 803 | CLA  | CMB-C2B | -3.13 | 1.45        | 1.51     |
| 17  | 3     | 205 | CLA  | CHC-C1C | 3.13  | 1.43        | 1.35     |
| 17  | 4     | 609 | CLA  | CHC-C1C | 3.13  | 1.43        | 1.35     |
| 25  | 4     | 612 | ZEX  | C8-C9   | 3.13  | 1.52        | 1.45     |
| 17  | A     | 832 | CLA  | C3B-C2B | -3.13 | 1.36        | 1.40     |
| 17  | 4     | 606 | CLA  | C1D-ND  | 3.13  | 1.41        | 1.37     |
| 17  | B     | 822 | CLA  | C3B-C2B | -3.12 | 1.36        | 1.40     |
| 17  | 3     | 206 | CLA  | C4D-ND  | -3.12 | 1.33        | 1.37     |
| 17  | A     | 816 | CLA  | MG-ND   | -3.12 | 1.99        | 2.05     |
| 17  | 5     | 606 | CLA  | C4D-ND  | -3.12 | 1.33        | 1.37     |
| 25  | 2     | 616 | ZEX  | C8-C9   | 3.12  | 1.52        | 1.45     |
| 17  | B     | 824 | CLA  | C1D-ND  | 3.12  | 1.41        | 1.37     |
| 17  | 1     | 609 | CLA  | C1D-ND  | 3.11  | 1.41        | 1.37     |
| 25  | 1     | 616 | ZEX  | C8-C9   | 3.11  | 1.52        | 1.45     |
| 25  | 1     | 614 | ZEX  | C11-C10 | 3.11  | 1.53        | 1.43     |
| 17  | B     | 813 | CLA  | C1D-ND  | 3.11  | 1.41        | 1.37     |
| 25  | 5     | 614 | ZEX  | C15-C14 | 3.11  | 1.53        | 1.43     |
| 17  | B     | 804 | CLA  | CMB-C2B | -3.11 | 1.45        | 1.51     |
| 25  | 4     | 614 | ZEX  | C11-C10 | 3.11  | 1.53        | 1.43     |
| 20  | B     | 846 | BCR  | C1-C6   | -3.10 | 1.49        | 1.53     |
| 25  | 2     | 614 | ZEX  | C31-C30 | 3.10  | 1.53        | 1.43     |
| 25  | 4     | 617 | ZEX  | C8-C9   | 3.10  | 1.52        | 1.45     |
| 17  | A     | 819 | CLA  | C1D-ND  | 3.10  | 1.41        | 1.37     |
| 25  | 4     | 616 | ZEX  | C8-C9   | 3.10  | 1.52        | 1.45     |
| 25  | 5     | 616 | ZEX  | C32-C33 | 3.10  | 1.52        | 1.45     |
| 25  | 4     | 612 | ZEX  | C15-C14 | 3.10  | 1.53        | 1.43     |
| 17  | A     | 807 | CLA  | C1D-ND  | 3.10  | 1.41        | 1.37     |
| 17  | A     | 828 | CLA  | MG-ND   | -3.09 | 1.99        | 2.05     |
| 20  | B     | 849 | BCR  | C1-C6   | -3.09 | 1.49        | 1.53     |
| 17  | 3     | 209 | CLA  | C1D-ND  | 3.09  | 1.41        | 1.37     |
| 17  | 3     | 210 | CLA  | C4D-ND  | -3.09 | 1.33        | 1.37     |
| 17  | A     | 823 | CLA  | C1D-ND  | 3.09  | 1.41        | 1.37     |
| 17  | 2     | 605 | CLA  | C1D-ND  | 3.09  | 1.41        | 1.37     |
| 25  | 5     | 615 | ZEX  | C1-C6   | 3.09  | 1.58        | 1.53     |
| 25  | 4     | 616 | ZEX  | C24-C25 | 3.08  | 1.53        | 1.50     |
| 16  | A     | 801 | CL0  | CBB-CAB | 3.08  | 1.49        | 1.29     |
| 17  | 4     | 606 | CLA  | C4D-ND  | -3.08 | 1.33        | 1.37     |
| 17  | 3     | 206 | CLA  | C1D-ND  | 3.08  | 1.41        | 1.37     |
| 25  | 5     | 616 | ZEX  | C15-C14 | 3.08  | 1.53        | 1.43     |
| 25  | 4     | 617 | ZEX  | C11-C10 | 3.08  | 1.53        | 1.43     |
| 17  | 4     | 601 | CLA  | C4D-ND  | -3.08 | 1.33        | 1.37     |
| 17  | 1     | 606 | CLA  | C1D-ND  | 3.07  | 1.41        | 1.37     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | B     | 809 | CLA  | C1D-ND  | 3.07  | 1.41        | 1.37     |
| 17  | A     | 802 | CLA  | C1D-ND  | 3.07  | 1.41        | 1.37     |
| 17  | B     | 823 | CLA  | C1D-ND  | 3.07  | 1.41        | 1.37     |
| 17  | B     | 834 | CLA  | CMB-C2B | -3.07 | 1.45        | 1.51     |
| 20  | A     | 844 | BCR  | C1-C6   | -3.07 | 1.49        | 1.53     |
| 25  | 3     | 216 | ZEX  | C8-C9   | 3.07  | 1.52        | 1.45     |
| 20  | B     | 848 | BCR  | C30-C25 | -3.07 | 1.49        | 1.53     |
| 17  | B     | 842 | CLA  | C3B-C2B | -3.06 | 1.36        | 1.40     |
| 17  | A     | 825 | CLA  | C1D-ND  | 3.06  | 1.41        | 1.37     |
| 20  | K     | 104 | BCR  | C1-C6   | -3.06 | 1.49        | 1.53     |
| 17  | A     | 812 | CLA  | C1D-ND  | 3.06  | 1.41        | 1.37     |
| 17  | B     | 802 | CLA  | C1D-ND  | 3.06  | 1.41        | 1.37     |
| 17  | O     | 201 | CLA  | C1D-ND  | 3.06  | 1.41        | 1.37     |
| 17  | A     | 813 | CLA  | C1D-ND  | 3.06  | 1.41        | 1.37     |
| 17  | 5     | 601 | CLA  | CHC-C1C | 3.06  | 1.42        | 1.35     |
| 25  | 3     | 215 | ZEX  | C8-C9   | 3.06  | 1.52        | 1.45     |
| 25  | 3     | 217 | ZEX  | C32-C33 | 3.06  | 1.52        | 1.45     |
| 17  | B     | 815 | CLA  | C1D-ND  | 3.06  | 1.41        | 1.37     |
| 17  | B     | 831 | CLA  | CMD-C2D | -3.06 | 1.44        | 1.50     |
| 25  | 4     | 616 | ZEX  | C15-C14 | 3.06  | 1.52        | 1.43     |
| 25  | 3     | 215 | ZEX  | C11-C10 | 3.06  | 1.52        | 1.43     |
| 25  | 3     | 216 | ZEX  | C11-C10 | 3.05  | 1.52        | 1.43     |
| 25  | 5     | 614 | ZEX  | C1-C6   | 3.05  | 1.58        | 1.53     |
| 17  | A     | 811 | CLA  | C1D-ND  | 3.05  | 1.41        | 1.37     |
| 17  | A     | 815 | CLA  | CHC-C1C | 3.05  | 1.42        | 1.35     |
| 25  | 4     | 614 | ZEX  | C15-C14 | 3.05  | 1.52        | 1.43     |
| 20  | A     | 843 | BCR  | C30-C25 | -3.05 | 1.49        | 1.53     |
| 17  | O     | 204 | CLA  | C4D-ND  | -3.05 | 1.33        | 1.37     |
| 17  | 5     | 604 | CLA  | C1D-ND  | 3.05  | 1.41        | 1.37     |
| 17  | B     | 804 | CLA  | C3B-CAB | -3.05 | 1.41        | 1.47     |
| 17  | O     | 204 | CLA  | CHC-C1C | 3.05  | 1.42        | 1.35     |
| 25  | 2     | 614 | ZEX  | C32-C33 | 3.05  | 1.52        | 1.45     |
| 25  | 4     | 615 | ZEX  | C15-C14 | 3.05  | 1.52        | 1.43     |
| 17  | B     | 820 | CLA  | C3B-C2B | -3.04 | 1.36        | 1.40     |
| 17  | A     | 829 | CLA  | CHC-C1C | 3.04  | 1.42        | 1.35     |
| 25  | 5     | 614 | ZEX  | C32-C33 | 3.04  | 1.52        | 1.45     |
| 25  | 5     | 614 | ZEX  | C11-C10 | 3.04  | 1.52        | 1.43     |
| 25  | 3     | 214 | ZEX  | C15-C14 | 3.04  | 1.52        | 1.43     |
| 17  | B     | 801 | CLA  | CMD-C2D | -3.04 | 1.44        | 1.50     |
| 17  | 3     | 209 | CLA  | CHC-C1C | 3.04  | 1.42        | 1.35     |
| 17  | B     | 812 | CLA  | C1D-ND  | 3.04  | 1.41        | 1.37     |
| 17  | B     | 837 | CLA  | CMB-C2B | -3.04 | 1.45        | 1.51     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | 3     | 212 | CLA  | C4D-ND  | -3.04 | 1.33        | 1.37     |
| 25  | 3     | 218 | ZEX  | C8-C7   | 3.04  | 1.42        | 1.33     |
| 17  | A     | 802 | CLA  | CHC-C1C | 3.03  | 1.42        | 1.35     |
| 25  | 4     | 616 | ZEX  | C11-C10 | 3.03  | 1.52        | 1.43     |
| 17  | 4     | 604 | CLA  | CHC-C1C | 3.03  | 1.42        | 1.35     |
| 17  | 5     | 612 | CLA  | C4D-ND  | -3.03 | 1.33        | 1.37     |
| 17  | B     | 822 | CLA  | C1D-ND  | 3.03  | 1.41        | 1.37     |
| 17  | 1     | 601 | CLA  | CMC-C2C | -3.03 | 1.44        | 1.50     |
| 17  | B     | 838 | CLA  | CMB-C2B | -3.03 | 1.45        | 1.51     |
| 17  | 3     | 208 | CLA  | CHC-C1C | 3.03  | 1.42        | 1.35     |
| 17  | A     | 807 | CLA  | CMB-C2B | -3.03 | 1.45        | 1.51     |
| 25  | 5     | 616 | ZEX  | C1-C6   | 3.03  | 1.57        | 1.53     |
| 25  | 5     | 614 | ZEX  | C8-C9   | 3.02  | 1.52        | 1.45     |
| 17  | 1     | 604 | CLA  | CHC-C1C | 3.02  | 1.42        | 1.35     |
| 17  | B     | 808 | CLA  | CMB-C2B | -3.02 | 1.45        | 1.51     |
| 25  | 4     | 613 | ZEX  | C15-C14 | 3.02  | 1.52        | 1.43     |
| 17  | O     | 203 | CLA  | CHC-C1C | 3.02  | 1.42        | 1.35     |
| 17  | 4     | 610 | CLA  | CHC-C1C | 3.01  | 1.42        | 1.35     |
| 17  | 2     | 609 | CLA  | C4D-ND  | -3.00 | 1.33        | 1.37     |
| 17  | B     | 830 | CLA  | C3B-CAB | -3.00 | 1.41        | 1.47     |
| 17  | B     | 833 | CLA  | CMB-C2B | -3.00 | 1.45        | 1.51     |
| 25  | 3     | 216 | ZEX  | C15-C14 | 3.00  | 1.52        | 1.43     |
| 17  | A     | 816 | CLA  | C3B-CAB | -3.00 | 1.41        | 1.47     |
| 17  | B     | 832 | CLA  | MG-ND   | -3.00 | 1.99        | 2.05     |
| 25  | 2     | 614 | ZEX  | C11-C10 | 3.00  | 1.52        | 1.43     |
| 17  | A     | 819 | CLA  | CMC-C2C | -3.00 | 1.44        | 1.50     |
| 17  | B     | 828 | CLA  | CHC-C1C | 3.00  | 1.42        | 1.35     |
| 17  | L     | 202 | CLA  | CMB-C2B | -3.00 | 1.45        | 1.51     |
| 25  | 1     | 617 | ZEX  | C15-C14 | 3.00  | 1.52        | 1.43     |
| 17  | A     | 818 | CLA  | C1D-ND  | 3.00  | 1.41        | 1.37     |
| 23  | B     | 851 | DGD  | O2G-C2G | -3.00 | 1.39        | 1.46     |
| 17  | O     | 205 | CLA  | C4D-ND  | -3.00 | 1.33        | 1.37     |
| 17  | B     | 838 | CLA  | C3B-CAB | -3.00 | 1.41        | 1.47     |
| 17  | B     | 821 | CLA  | CMB-C2B | -3.00 | 1.45        | 1.51     |
| 17  | A     | 826 | CLA  | C3B-CAB | -3.00 | 1.41        | 1.47     |
| 17  | B     | 826 | CLA  | C1D-ND  | 3.00  | 1.41        | 1.37     |
| 17  | A     | 816 | CLA  | C3B-C2B | -3.00 | 1.36        | 1.40     |
| 25  | 1     | 616 | ZEX  | C15-C14 | 2.99  | 1.52        | 1.43     |
| 25  | 3     | 217 | ZEX  | C15-C14 | 2.99  | 1.52        | 1.43     |
| 17  | 3     | 210 | CLA  | CHC-C1C | 2.99  | 1.42        | 1.35     |
| 17  | 4     | 602 | CLA  | C1D-ND  | 2.99  | 1.41        | 1.37     |
| 17  | 5     | 610 | CLA  | C4D-ND  | -2.99 | 1.33        | 1.37     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25  | 5     | 617 | ZEX  | C15-C14 | 2.99  | 1.52        | 1.43     |
| 25  | 3     | 214 | ZEX  | C8-C9   | 2.99  | 1.52        | 1.45     |
| 17  | 1     | 612 | CLA  | C4D-ND  | -2.99 | 1.33        | 1.37     |
| 17  | 2     | 602 | CLA  | C1D-ND  | 2.99  | 1.41        | 1.37     |
| 17  | A     | 829 | CLA  | CMB-C2B | -2.99 | 1.45        | 1.51     |
| 17  | 5     | 601 | CLA  | C4D-ND  | -2.98 | 1.33        | 1.37     |
| 17  | B     | 819 | CLA  | C1D-ND  | 2.98  | 1.41        | 1.37     |
| 17  | A     | 837 | CLA  | CMB-C2B | -2.98 | 1.45        | 1.51     |
| 17  | 1     | 610 | CLA  | CHC-C1C | 2.98  | 1.42        | 1.35     |
| 17  | O     | 205 | CLA  | CHC-C1C | 2.98  | 1.42        | 1.35     |
| 25  | 1     | 614 | ZEX  | C15-C14 | 2.98  | 1.52        | 1.43     |
| 17  | O     | 201 | CLA  | CHC-C1C | 2.98  | 1.42        | 1.35     |
| 17  | L     | 204 | CLA  | C1D-ND  | 2.98  | 1.41        | 1.37     |
| 17  | B     | 801 | CLA  | CHC-C1C | 2.98  | 1.42        | 1.35     |
| 20  | J     | 104 | BCR  | C30-C25 | -2.98 | 1.49        | 1.53     |
| 25  | 4     | 617 | ZEX  | C15-C14 | 2.98  | 1.52        | 1.43     |
| 17  | J     | 103 | CLA  | C1D-ND  | 2.98  | 1.41        | 1.37     |
| 17  | B     | 834 | CLA  | C1D-ND  | 2.98  | 1.41        | 1.37     |
| 25  | 2     | 615 | ZEX  | C11-C10 | 2.97  | 1.52        | 1.43     |
| 18  | B     | 844 | PQN  | C5-C4   | -2.97 | 1.42        | 1.48     |
| 17  | B     | 826 | CLA  | CHC-C1C | 2.97  | 1.42        | 1.35     |
| 17  | A     | 808 | CLA  | C1D-ND  | 2.97  | 1.41        | 1.37     |
| 25  | 2     | 617 | ZEX  | C11-C10 | 2.97  | 1.52        | 1.43     |
| 17  | A     | 816 | CLA  | CMB-C2B | -2.97 | 1.45        | 1.51     |
| 17  | A     | 832 | CLA  | CMB-C2B | -2.97 | 1.45        | 1.51     |
| 17  | B     | 839 | CLA  | CHC-C1C | 2.97  | 1.42        | 1.35     |
| 17  | 2     | 605 | CLA  | CHC-C1C | 2.97  | 1.42        | 1.35     |
| 18  | B     | 844 | PQN  | C10-C5  | -2.97 | 1.35        | 1.40     |
| 25  | 4     | 616 | ZEX  | C32-C33 | 2.97  | 1.52        | 1.45     |
| 17  | A     | 819 | CLA  | CHC-C1C | 2.96  | 1.42        | 1.35     |
| 17  | 1     | 605 | CLA  | C4D-ND  | -2.96 | 1.33        | 1.37     |
| 17  | 4     | 611 | CLA  | C4D-ND  | -2.96 | 1.33        | 1.37     |
| 17  | B     | 806 | CLA  | CMD-C2D | -2.96 | 1.44        | 1.50     |
| 25  | 1     | 613 | ZEX  | C15-C14 | 2.96  | 1.52        | 1.43     |
| 17  | 5     | 607 | CLA  | C4D-ND  | -2.96 | 1.33        | 1.37     |
| 17  | A     | 836 | CLA  | C1D-ND  | 2.96  | 1.41        | 1.37     |
| 17  | A     | 823 | CLA  | CMB-C2B | -2.96 | 1.45        | 1.51     |
| 17  | 4     | 608 | CLA  | C4D-ND  | -2.96 | 1.33        | 1.37     |
| 17  | 5     | 613 | CLA  | CHC-C1C | 2.96  | 1.42        | 1.35     |
| 17  | B     | 837 | CLA  | C3B-C2B | -2.95 | 1.36        | 1.40     |
| 20  | B     | 850 | BCR  | C1-C6   | -2.95 | 1.49        | 1.53     |
| 17  | A     | 805 | CLA  | CHC-C1C | 2.95  | 1.42        | 1.35     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | 2     | 609 | CLA  | CHC-C1C | 2.95  | 1.42        | 1.35     |
| 25  | 1     | 616 | ZEX  | C32-C33 | 2.95  | 1.52        | 1.45     |
| 17  | A     | 826 | CLA  | CHC-C1C | 2.95  | 1.42        | 1.35     |
| 17  | 1     | 607 | CLA  | C1D-ND  | 2.95  | 1.41        | 1.37     |
| 17  | 2     | 612 | CLA  | CHC-C1C | 2.95  | 1.42        | 1.35     |
| 17  | 1     | 607 | CLA  | CHC-C1C | 2.94  | 1.42        | 1.35     |
| 17  | A     | 831 | CLA  | CMB-C2B | -2.94 | 1.45        | 1.51     |
| 17  | B     | 832 | CLA  | C3B-C2B | -2.94 | 1.36        | 1.40     |
| 17  | A     | 833 | CLA  | CMB-C2B | -2.94 | 1.45        | 1.51     |
| 17  | B     | 807 | CLA  | CHC-C1C | 2.94  | 1.42        | 1.35     |
| 17  | 2     | 606 | CLA  | C1D-ND  | 2.94  | 1.41        | 1.37     |
| 17  | B     | 818 | CLA  | C1D-ND  | 2.94  | 1.41        | 1.37     |
| 25  | 3     | 215 | ZEX  | C28-C29 | 2.94  | 1.52        | 1.45     |
| 25  | 2     | 615 | ZEX  | C31-C30 | 2.94  | 1.52        | 1.43     |
| 20  | B     | 848 | BCR  | C1-C6   | -2.93 | 1.49        | 1.53     |
| 17  | 5     | 602 | CLA  | CHC-C1C | 2.93  | 1.42        | 1.35     |
| 17  | B     | 803 | CLA  | CMB-C2B | -2.93 | 1.45        | 1.51     |
| 17  | A     | 811 | CLA  | C3B-C2B | -2.93 | 1.36        | 1.40     |
| 17  | B     | 807 | CLA  | C1D-ND  | 2.93  | 1.41        | 1.37     |
| 17  | A     | 809 | CLA  | CMB-C2B | -2.93 | 1.45        | 1.51     |
| 17  | 1     | 601 | CLA  | CHC-C1C | 2.93  | 1.42        | 1.35     |
| 17  | B     | 808 | CLA  | C1D-ND  | 2.92  | 1.41        | 1.37     |
| 17  | A     | 839 | CLA  | C1D-ND  | 2.92  | 1.41        | 1.37     |
| 25  | 5     | 617 | ZEX  | C32-C33 | 2.92  | 1.52        | 1.45     |
| 25  | 5     | 617 | ZEX  | C11-C10 | 2.92  | 1.52        | 1.43     |
| 17  | L     | 204 | CLA  | CHC-C1C | 2.92  | 1.42        | 1.35     |
| 17  | B     | 809 | CLA  | CMB-C2B | -2.92 | 1.45        | 1.51     |
| 17  | A     | 806 | CLA  | CMB-C2B | -2.92 | 1.45        | 1.51     |
| 22  | A     | 849 | BGC  | O2-C2   | -2.92 | 1.37        | 1.43     |
| 25  | 1     | 614 | ZEX  | C1-C6   | 2.92  | 1.57        | 1.53     |
| 17  | 2     | 611 | CLA  | CHC-C1C | 2.91  | 1.42        | 1.35     |
| 20  | B     | 845 | BCR  | C1-C6   | -2.91 | 1.49        | 1.53     |
| 25  | 3     | 215 | ZEX  | C15-C14 | 2.91  | 1.52        | 1.43     |
| 17  | B     | 815 | CLA  | CHC-C1C | 2.91  | 1.42        | 1.35     |
| 17  | A     | 838 | CLA  | CMB-C2B | -2.91 | 1.45        | 1.51     |
| 17  | A     | 837 | CLA  | C1D-ND  | 2.91  | 1.41        | 1.37     |
| 17  | B     | 812 | CLA  | C3B-C2B | -2.91 | 1.36        | 1.40     |
| 17  | 5     | 604 | CLA  | CHC-C1C | 2.91  | 1.42        | 1.35     |
| 25  | 4     | 617 | ZEX  | C32-C33 | 2.91  | 1.52        | 1.45     |
| 17  | B     | 806 | CLA  | C3B-CAB | -2.91 | 1.42        | 1.47     |
| 17  | B     | 818 | CLA  | CHC-C1C | 2.90  | 1.42        | 1.35     |
| 17  | 3     | 203 | CLA  | C1D-ND  | 2.90  | 1.41        | 1.37     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | B     | 819 | CLA  | CHC-C1C | 2.90  | 1.42        | 1.35     |
| 17  | B     | 836 | CLA  | CHC-C1C | 2.90  | 1.42        | 1.35     |
| 17  | B     | 827 | CLA  | CMD-C2D | -2.90 | 1.44        | 1.50     |
| 17  | A     | 808 | CLA  | CMB-C2B | -2.90 | 1.45        | 1.51     |
| 18  | A     | 840 | PQN  | C10-C5  | -2.90 | 1.35        | 1.40     |
| 17  | B     | 830 | CLA  | CMB-C2B | -2.90 | 1.45        | 1.51     |
| 17  | B     | 835 | CLA  | CHC-C1C | 2.90  | 1.42        | 1.35     |
| 17  | B     | 837 | CLA  | CHC-C1C | 2.90  | 1.42        | 1.35     |
| 17  | B     | 833 | CLA  | CHC-C1C | 2.90  | 1.42        | 1.35     |
| 17  | B     | 809 | CLA  | C3B-CAB | -2.90 | 1.42        | 1.47     |
| 25  | 1     | 617 | ZEX  | C11-C10 | 2.90  | 1.52        | 1.43     |
| 17  | F     | 301 | CLA  | C1D-ND  | 2.90  | 1.41        | 1.37     |
| 17  | 5     | 609 | CLA  | CHC-C1C | 2.90  | 1.42        | 1.35     |
| 17  | B     | 833 | CLA  | C1D-ND  | 2.90  | 1.41        | 1.37     |
| 17  | B     | 813 | CLA  | CMB-C2B | -2.90 | 1.45        | 1.51     |
| 17  | 2     | 603 | CLA  | C1D-ND  | 2.89  | 1.41        | 1.37     |
| 25  | 1     | 613 | ZEX  | C8-C9   | 2.89  | 1.52        | 1.45     |
| 17  | B     | 809 | CLA  | C3B-C2B | -2.89 | 1.36        | 1.40     |
| 17  | A     | 818 | CLA  | CMB-C2B | -2.89 | 1.45        | 1.51     |
| 17  | K     | 102 | CLA  | CHC-C1C | 2.89  | 1.42        | 1.35     |
| 17  | 2     | 602 | CLA  | CHC-C1C | 2.89  | 1.42        | 1.35     |
| 17  | J     | 101 | CLA  | C1D-ND  | 2.89  | 1.41        | 1.37     |
| 17  | 3     | 212 | CLA  | CHC-C1C | 2.89  | 1.42        | 1.35     |
| 17  | 2     | 611 | CLA  | C1D-ND  | 2.89  | 1.41        | 1.37     |
| 17  | A     | 810 | CLA  | CHC-C1C | 2.89  | 1.42        | 1.35     |
| 17  | 5     | 610 | CLA  | CHC-C1C | 2.89  | 1.42        | 1.35     |
| 17  | 1     | 603 | CLA  | C3B-C2B | -2.89 | 1.36        | 1.40     |
| 17  | F     | 302 | CLA  | C1D-ND  | 2.89  | 1.41        | 1.37     |
| 17  | B     | 835 | CLA  | CMB-C2B | -2.89 | 1.45        | 1.51     |
| 17  | A     | 830 | CLA  | CHC-C1C | 2.88  | 1.42        | 1.35     |
| 17  | 4     | 610 | CLA  | C4D-ND  | -2.88 | 1.33        | 1.37     |
| 17  | B     | 811 | CLA  | CMD-C2D | -2.88 | 1.44        | 1.50     |
| 17  | B     | 838 | CLA  | MG-ND   | -2.88 | 2.00        | 2.05     |
| 17  | 1     | 608 | CLA  | CHC-C1C | 2.88  | 1.42        | 1.35     |
| 17  | A     | 838 | CLA  | CHC-C1C | 2.88  | 1.42        | 1.35     |
| 17  | A     | 822 | CLA  | CHC-C1C | 2.88  | 1.42        | 1.35     |
| 17  | A     | 827 | CLA  | MG-ND   | -2.88 | 2.00        | 2.05     |
| 17  | 1     | 609 | CLA  | CHC-C1C | 2.87  | 1.42        | 1.35     |
| 17  | 5     | 605 | CLA  | CHC-C1C | 2.87  | 1.42        | 1.35     |
| 17  | 5     | 605 | CLA  | C4D-ND  | -2.87 | 1.33        | 1.37     |
| 17  | 2     | 607 | CLA  | CHC-C1C | 2.87  | 1.42        | 1.35     |
| 17  | A     | 829 | CLA  | C3B-C2B | -2.87 | 1.36        | 1.40     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 20  | K     | 101 | BCR  | C30-C25 | -2.87 | 1.49        | 1.53     |
| 17  | 1     | 605 | CLA  | CHC-C1C | 2.87  | 1.42        | 1.35     |
| 17  | B     | 829 | CLA  | CHC-C1C | 2.87  | 1.42        | 1.35     |
| 17  | B     | 833 | CLA  | C3B-C2B | -2.87 | 1.36        | 1.40     |
| 17  | B     | 817 | CLA  | CHC-C1C | 2.86  | 1.42        | 1.35     |
| 17  | 1     | 608 | CLA  | C1D-ND  | 2.86  | 1.41        | 1.37     |
| 17  | A     | 811 | CLA  | CMB-C2B | -2.86 | 1.45        | 1.51     |
| 17  | F     | 303 | CLA  | CHC-C1C | 2.86  | 1.42        | 1.35     |
| 17  | B     | 840 | CLA  | CHC-C1C | 2.86  | 1.42        | 1.35     |
| 17  | 1     | 602 | CLA  | CMB-C2B | -2.86 | 1.45        | 1.51     |
| 17  | 3     | 202 | CLA  | CHC-C1C | 2.86  | 1.42        | 1.35     |
| 25  | 4     | 617 | ZEX  | C1-C6   | 2.86  | 1.57        | 1.53     |
| 17  | A     | 829 | CLA  | CMD-C2D | -2.86 | 1.44        | 1.50     |
| 17  | A     | 806 | CLA  | C3B-C2B | -2.86 | 1.36        | 1.40     |
| 17  | A     | 825 | CLA  | CHC-C1C | 2.86  | 1.42        | 1.35     |
| 17  | A     | 809 | CLA  | C1D-ND  | 2.85  | 1.41        | 1.37     |
| 17  | 5     | 606 | CLA  | CHC-C1C | 2.85  | 1.42        | 1.35     |
| 25  | 4     | 613 | ZEX  | C24-C25 | 2.85  | 1.53        | 1.50     |
| 17  | 5     | 602 | CLA  | CMB-C2B | -2.85 | 1.45        | 1.51     |
| 17  | 3     | 205 | CLA  | CMB-C2B | -2.85 | 1.45        | 1.51     |
| 25  | 2     | 614 | ZEX  | C8-C9   | 2.85  | 1.52        | 1.45     |
| 17  | 2     | 613 | CLA  | CHC-C1C | 2.85  | 1.42        | 1.35     |
| 25  | 3     | 201 | ZEX  | C8-C7   | 2.85  | 1.41        | 1.33     |
| 17  | 2     | 606 | CLA  | CHC-C1C | 2.85  | 1.42        | 1.35     |
| 17  | B     | 828 | CLA  | CMB-C2B | -2.85 | 1.45        | 1.51     |
| 17  | 2     | 610 | CLA  | CHC-C1C | 2.85  | 1.42        | 1.35     |
| 18  | B     | 844 | PQN  | C3-C2   | 2.84  | 1.40        | 1.35     |
| 25  | 4     | 612 | ZEX  | C8-C7   | 2.84  | 1.41        | 1.33     |
| 17  | B     | 801 | CLA  | CMB-C2B | -2.84 | 1.45        | 1.51     |
| 17  | K     | 103 | CLA  | CHC-C1C | 2.84  | 1.42        | 1.35     |
| 17  | A     | 810 | CLA  | CMB-C2B | -2.84 | 1.45        | 1.51     |
| 25  | 3     | 214 | ZEX  | C11-C10 | 2.84  | 1.52        | 1.43     |
| 17  | 5     | 607 | CLA  | CMB-C2B | -2.84 | 1.45        | 1.51     |
| 17  | B     | 825 | CLA  | C1D-ND  | 2.84  | 1.41        | 1.37     |
| 17  | 4     | 605 | CLA  | C4D-ND  | -2.84 | 1.33        | 1.37     |
| 17  | 4     | 607 | CLA  | CHC-C1C | 2.84  | 1.42        | 1.35     |
| 25  | 1     | 617 | ZEX  | C24-C25 | 2.83  | 1.53        | 1.50     |
| 17  | A     | 848 | CLA  | CHC-C1C | 2.83  | 1.42        | 1.35     |
| 17  | A     | 820 | CLA  | CMB-C2B | -2.83 | 1.45        | 1.51     |
| 17  | A     | 804 | CLA  | CHC-C1C | 2.83  | 1.42        | 1.35     |
| 17  | 5     | 613 | CLA  | C4D-ND  | -2.83 | 1.33        | 1.37     |
| 17  | B     | 834 | CLA  | CHC-C1C | 2.83  | 1.42        | 1.35     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | A     | 833 | CLA  | CHC-C1C | 2.83  | 1.42        | 1.35     |
| 25  | 4     | 615 | ZEX  | C1-C6   | 2.83  | 1.57        | 1.53     |
| 17  | B     | 820 | CLA  | MG-ND   | -2.83 | 2.00        | 2.05     |
| 17  | A     | 839 | CLA  | C3B-C2B | -2.83 | 1.36        | 1.40     |
| 20  | F     | 304 | BCR  | C1-C6   | -2.83 | 1.49        | 1.53     |
| 25  | 2     | 614 | ZEX  | C1-C6   | 2.83  | 1.57        | 1.53     |
| 19  | A     | 841 | LHG  | O7-C5   | -2.83 | 1.39        | 1.46     |
| 17  | K     | 102 | CLA  | C1D-ND  | 2.83  | 1.41        | 1.37     |
| 17  | F     | 301 | CLA  | CHC-C1C | 2.83  | 1.42        | 1.35     |
| 17  | L     | 202 | CLA  | CHC-C1C | 2.82  | 1.42        | 1.35     |
| 17  | A     | 825 | CLA  | CMC-C2C | -2.82 | 1.44        | 1.50     |
| 17  | 2     | 608 | CLA  | CMC-C2C | -2.82 | 1.44        | 1.50     |
| 25  | 1     | 615 | ZEX  | C8-C9   | 2.82  | 1.52        | 1.45     |
| 25  | 4     | 615 | ZEX  | C32-C33 | 2.82  | 1.52        | 1.45     |
| 25  | 4     | 614 | ZEX  | C24-C25 | 2.82  | 1.53        | 1.50     |
| 17  | B     | 843 | CLA  | CHC-C1C | 2.81  | 1.42        | 1.35     |
| 17  | A     | 813 | CLA  | CHC-C1C | 2.81  | 1.42        | 1.35     |
| 17  | 2     | 604 | CLA  | CHC-C1C | 2.81  | 1.42        | 1.35     |
| 17  | A     | 829 | CLA  | C1D-ND  | 2.81  | 1.41        | 1.37     |
| 25  | 4     | 614 | ZEX  | C8-C7   | 2.81  | 1.41        | 1.33     |
| 17  | 5     | 603 | CLA  | CHC-C1C | 2.81  | 1.42        | 1.35     |
| 17  | B     | 839 | CLA  | C3B-CAB | -2.81 | 1.42        | 1.47     |
| 25  | 2     | 616 | ZEX  | C12-C13 | 2.81  | 1.52        | 1.45     |
| 17  | 3     | 211 | CLA  | CHC-C1C | 2.81  | 1.42        | 1.35     |
| 17  | 3     | 213 | CLA  | CHC-C1C | 2.81  | 1.42        | 1.35     |
| 17  | 1     | 601 | CLA  | CMB-C2B | -2.81 | 1.45        | 1.51     |
| 17  | 5     | 612 | CLA  | CHC-C1C | 2.80  | 1.42        | 1.35     |
| 17  | A     | 803 | CLA  | CMC-C2C | -2.80 | 1.44        | 1.50     |
| 25  | 3     | 201 | ZEX  | C32-C33 | 2.80  | 1.52        | 1.45     |
| 17  | 1     | 612 | CLA  | CHC-C1C | 2.80  | 1.42        | 1.35     |
| 17  | 3     | 207 | CLA  | CHC-C1C | 2.80  | 1.42        | 1.35     |
| 17  | 4     | 603 | CLA  | CHC-C1C | 2.80  | 1.42        | 1.35     |
| 17  | B     | 803 | CLA  | CHC-C1C | 2.80  | 1.42        | 1.35     |
| 17  | A     | 817 | CLA  | C1D-ND  | 2.80  | 1.41        | 1.37     |
| 17  | 3     | 206 | CLA  | CHC-C1C | 2.80  | 1.42        | 1.35     |
| 17  | B     | 821 | CLA  | C1D-ND  | 2.80  | 1.41        | 1.37     |
| 17  | 3     | 204 | CLA  | C1D-ND  | 2.80  | 1.41        | 1.37     |
| 25  | 4     | 614 | ZEX  | C32-C33 | 2.80  | 1.52        | 1.45     |
| 17  | A     | 834 | CLA  | CHC-C1C | 2.79  | 1.42        | 1.35     |
| 25  | 3     | 214 | ZEX  | C1-C6   | 2.79  | 1.57        | 1.53     |
| 17  | J     | 103 | CLA  | CHC-C1C | 2.79  | 1.42        | 1.35     |
| 17  | 5     | 608 | CLA  | CHC-C1C | 2.79  | 1.42        | 1.35     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | B     | 833 | CLA  | CMD-C2D | -2.79 | 1.44        | 1.50     |
| 25  | 1     | 616 | ZEX  | C24-C25 | 2.79  | 1.53        | 1.50     |
| 17  | A     | 809 | CLA  | CHC-C1C | 2.79  | 1.42        | 1.35     |
| 17  | A     | 822 | CLA  | CMC-C2C | -2.79 | 1.44        | 1.50     |
| 17  | B     | 841 | CLA  | CMB-C2B | -2.79 | 1.45        | 1.51     |
| 17  | 5     | 604 | CLA  | CMB-C2B | -2.79 | 1.45        | 1.51     |
| 25  | 4     | 615 | ZEX  | C8-C7   | 2.79  | 1.41        | 1.33     |
| 17  | A     | 816 | CLA  | CMD-C2D | -2.79 | 1.44        | 1.50     |
| 17  | A     | 823 | CLA  | CMD-C2D | -2.78 | 1.44        | 1.50     |
| 17  | B     | 816 | CLA  | CHC-C1C | 2.78  | 1.42        | 1.35     |
| 17  | B     | 830 | CLA  | C3B-C2B | -2.78 | 1.36        | 1.40     |
| 17  | A     | 826 | CLA  | C3B-C2B | -2.78 | 1.36        | 1.40     |
| 17  | B     | 838 | CLA  | C1D-ND  | 2.78  | 1.41        | 1.37     |
| 25  | 2     | 615 | ZEX  | C15-C14 | 2.78  | 1.52        | 1.43     |
| 17  | A     | 822 | CLA  | CMB-C2B | -2.78 | 1.45        | 1.51     |
| 17  | B     | 803 | CLA  | C3B-C2B | -2.78 | 1.36        | 1.40     |
| 17  | F     | 302 | CLA  | CMB-C2B | -2.77 | 1.45        | 1.51     |
| 17  | B     | 816 | CLA  | CMB-C2B | -2.77 | 1.45        | 1.51     |
| 17  | A     | 832 | CLA  | C3B-CAB | -2.77 | 1.42        | 1.47     |
| 17  | A     | 848 | CLA  | MG-ND   | -2.77 | 2.00        | 2.05     |
| 17  | A     | 822 | CLA  | C3B-C2B | -2.77 | 1.36        | 1.40     |
| 17  | A     | 830 | CLA  | CMB-C2B | -2.77 | 1.45        | 1.51     |
| 17  | 2     | 601 | CLA  | CHC-C1C | 2.77  | 1.42        | 1.35     |
| 25  | 1     | 615 | ZEX  | C11-C10 | 2.77  | 1.52        | 1.43     |
| 25  | 4     | 612 | ZEX  | C32-C33 | 2.77  | 1.51        | 1.45     |
| 17  | B     | 836 | CLA  | CMB-C2B | -2.77 | 1.45        | 1.51     |
| 17  | A     | 826 | CLA  | CMB-C2B | -2.77 | 1.45        | 1.51     |
| 17  | B     | 811 | CLA  | C3B-C2B | -2.77 | 1.36        | 1.40     |
| 17  | B     | 814 | CLA  | MG-ND   | -2.77 | 2.00        | 2.05     |
| 17  | J     | 101 | CLA  | CMC-C2C | -2.76 | 1.44        | 1.50     |
| 17  | A     | 812 | CLA  | CHC-C1C | 2.76  | 1.42        | 1.35     |
| 18  | A     | 840 | PQN  | C3-C2   | 2.76  | 1.40        | 1.35     |
| 17  | 1     | 611 | CLA  | CHC-C1C | 2.76  | 1.42        | 1.35     |
| 17  | B     | 830 | CLA  | CMC-C2C | -2.76 | 1.44        | 1.50     |
| 17  | 3     | 203 | CLA  | CMC-C2C | -2.76 | 1.44        | 1.50     |
| 17  | A     | 823 | CLA  | C3B-C2B | -2.76 | 1.36        | 1.40     |
| 17  | B     | 829 | CLA  | C1D-ND  | 2.76  | 1.41        | 1.37     |
| 17  | B     | 841 | CLA  | CHC-C1C | 2.75  | 1.42        | 1.35     |
| 17  | B     | 823 | CLA  | CHC-C1C | 2.75  | 1.42        | 1.35     |
| 17  | 3     | 204 | CLA  | CHC-C1C | 2.75  | 1.42        | 1.35     |
| 17  | A     | 826 | CLA  | CMC-C2C | -2.75 | 1.45        | 1.50     |
| 17  | A     | 828 | CLA  | CMC-C2C | -2.75 | 1.45        | 1.50     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | B     | 820 | CLA  | C1D-ND  | 2.75  | 1.41        | 1.37     |
| 17  | B     | 839 | CLA  | C1D-ND  | 2.75  | 1.41        | 1.37     |
| 17  | B     | 813 | CLA  | C3B-C2B | -2.74 | 1.36        | 1.40     |
| 17  | B     | 820 | CLA  | C3B-CAB | -2.74 | 1.42        | 1.47     |
| 25  | 4     | 613 | ZEX  | C8-C7   | 2.74  | 1.41        | 1.33     |
| 17  | A     | 835 | CLA  | CHC-C1C | 2.74  | 1.42        | 1.35     |
| 25  | 5     | 616 | ZEX  | C8-C7   | 2.74  | 1.41        | 1.33     |
| 17  | B     | 830 | CLA  | MG-ND   | -2.74 | 2.00        | 2.05     |
| 17  | A     | 824 | CLA  | CHC-C1C | 2.74  | 1.42        | 1.35     |
| 17  | 4     | 608 | CLA  | CMB-C2B | -2.74 | 1.45        | 1.51     |
| 17  | B     | 841 | CLA  | CMC-C2C | -2.74 | 1.45        | 1.50     |
| 25  | 1     | 613 | ZEX  | C32-C33 | 2.74  | 1.51        | 1.45     |
| 17  | A     | 824 | CLA  | CMB-C2B | -2.74 | 1.45        | 1.51     |
| 25  | 1     | 614 | ZEX  | C8-C7   | 2.74  | 1.41        | 1.33     |
| 25  | 1     | 615 | ZEX  | C15-C14 | 2.74  | 1.51        | 1.43     |
| 17  | B     | 841 | CLA  | C1D-ND  | 2.74  | 1.41        | 1.37     |
| 17  | B     | 809 | CLA  | CMC-C2C | -2.74 | 1.45        | 1.50     |
| 20  | B     | 846 | BCR  | C30-C25 | -2.73 | 1.50        | 1.53     |
| 17  | A     | 814 | CLA  | CMB-C2B | -2.73 | 1.46        | 1.51     |
| 17  | A     | 816 | CLA  | C1D-ND  | 2.73  | 1.41        | 1.37     |
| 17  | A     | 802 | CLA  | CMB-C2B | -2.73 | 1.46        | 1.51     |
| 17  | B     | 806 | CLA  | CMB-C2B | -2.73 | 1.46        | 1.51     |
| 17  | B     | 803 | CLA  | C1D-ND  | 2.73  | 1.41        | 1.37     |
| 17  | 4     | 607 | CLA  | C4D-ND  | -2.73 | 1.33        | 1.37     |
| 17  | A     | 805 | CLA  | CMB-C2B | -2.73 | 1.46        | 1.51     |
| 17  | B     | 810 | CLA  | CHC-C1C | 2.73  | 1.42        | 1.35     |
| 17  | 2     | 603 | CLA  | CHC-C1C | 2.73  | 1.42        | 1.35     |
| 17  | 1     | 603 | CLA  | CHC-C1C | 2.73  | 1.42        | 1.35     |
| 17  | A     | 814 | CLA  | CHC-C1C | 2.73  | 1.42        | 1.35     |
| 17  | A     | 826 | CLA  | C1D-ND  | 2.72  | 1.41        | 1.37     |
| 17  | 2     | 602 | CLA  | CMB-C2B | -2.72 | 1.46        | 1.51     |
| 17  | 5     | 607 | CLA  | C3B-CAB | -2.72 | 1.42        | 1.47     |
| 17  | B     | 828 | CLA  | MG-ND   | -2.72 | 2.00        | 2.05     |
| 17  | A     | 829 | CLA  | C3B-CAB | -2.72 | 1.42        | 1.47     |
| 17  | B     | 809 | CLA  | CHC-C1C | 2.72  | 1.41        | 1.35     |
| 25  | 1     | 614 | ZEX  | C28-C29 | 2.72  | 1.51        | 1.45     |
| 17  | A     | 820 | CLA  | CHC-C1C | 2.72  | 1.41        | 1.35     |
| 17  | A     | 834 | CLA  | CMB-C2B | -2.72 | 1.46        | 1.51     |
| 17  | B     | 806 | CLA  | MG-ND   | -2.71 | 2.00        | 2.05     |
| 17  | 2     | 603 | CLA  | CMB-C2B | -2.71 | 1.46        | 1.51     |
| 17  | 1     | 606 | CLA  | C3B-CAB | -2.71 | 1.42        | 1.47     |
| 17  | B     | 817 | CLA  | C1D-ND  | 2.71  | 1.41        | 1.37     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 20  | B     | 805 | BCR  | C1-C6   | -2.71 | 1.50        | 1.53     |
| 17  | B     | 824 | CLA  | CHC-C1C | 2.71  | 1.41        | 1.35     |
| 17  | 1     | 610 | CLA  | CMB-C2B | -2.71 | 1.46        | 1.51     |
| 25  | 2     | 617 | ZEX  | C15-C14 | 2.71  | 1.51        | 1.43     |
| 17  | 1     | 602 | CLA  | C1D-ND  | 2.71  | 1.41        | 1.37     |
| 20  | L     | 206 | BCR  | C30-C25 | -2.71 | 1.50        | 1.53     |
| 17  | B     | 827 | CLA  | CHC-C1C | 2.71  | 1.41        | 1.35     |
| 17  | A     | 825 | CLA  | MG-ND   | -2.70 | 2.00        | 2.05     |
| 17  | 5     | 606 | CLA  | MG-ND   | -2.70 | 2.00        | 2.05     |
| 17  | A     | 821 | CLA  | CMB-C2B | -2.70 | 1.46        | 1.51     |
| 17  | 3     | 208 | CLA  | CMB-C2B | -2.70 | 1.46        | 1.51     |
| 17  | B     | 840 | CLA  | CMB-C2B | -2.70 | 1.46        | 1.51     |
| 17  | B     | 827 | CLA  | C1D-ND  | 2.70  | 1.41        | 1.37     |
| 25  | 2     | 616 | ZEX  | C1-C6   | 2.70  | 1.57        | 1.53     |
| 17  | B     | 810 | CLA  | C1D-ND  | 2.70  | 1.41        | 1.37     |
| 17  | F     | 302 | CLA  | CHC-C1C | 2.70  | 1.41        | 1.35     |
| 17  | A     | 837 | CLA  | CHC-C1C | 2.70  | 1.41        | 1.35     |
| 17  | B     | 818 | CLA  | CMC-C2C | -2.69 | 1.45        | 1.50     |
| 17  | J     | 101 | CLA  | CHC-C1C | 2.69  | 1.41        | 1.35     |
| 17  | B     | 811 | CLA  | CMB-C2B | -2.69 | 1.46        | 1.51     |
| 17  | B     | 822 | CLA  | CMC-C2C | -2.69 | 1.45        | 1.50     |
| 17  | F     | 303 | CLA  | CMB-C2B | -2.69 | 1.46        | 1.51     |
| 17  | B     | 811 | CLA  | C1D-ND  | 2.69  | 1.41        | 1.37     |
| 17  | B     | 842 | CLA  | C1D-ND  | 2.69  | 1.41        | 1.37     |
| 17  | A     | 828 | CLA  | CMD-C2D | -2.69 | 1.45        | 1.50     |
| 25  | 3     | 201 | ZEX  | C12-C13 | 2.69  | 1.51        | 1.45     |
| 25  | 4     | 614 | ZEX  | C1-C6   | 2.68  | 1.57        | 1.53     |
| 25  | 4     | 613 | ZEX  | C32-C33 | 2.68  | 1.51        | 1.45     |
| 17  | F     | 301 | CLA  | CMB-C2B | -2.68 | 1.46        | 1.51     |
| 17  | L     | 203 | CLA  | CMB-C2B | -2.68 | 1.46        | 1.51     |
| 17  | 2     | 605 | CLA  | CMD-C2D | -2.68 | 1.45        | 1.50     |
| 17  | B     | 818 | CLA  | CMB-C2B | -2.68 | 1.46        | 1.51     |
| 17  | 5     | 606 | CLA  | CMB-C2B | -2.68 | 1.46        | 1.51     |
| 17  | B     | 826 | CLA  | CMB-C2B | -2.68 | 1.46        | 1.51     |
| 17  | J     | 102 | CLA  | CHC-C1C | 2.68  | 1.41        | 1.35     |
| 17  | L     | 203 | CLA  | CHC-C1C | 2.68  | 1.41        | 1.35     |
| 20  | K     | 104 | BCR  | C30-C25 | -2.68 | 1.50        | 1.53     |
| 17  | 1     | 606 | CLA  | CMB-C2B | -2.68 | 1.46        | 1.51     |
| 17  | 1     | 603 | CLA  | CMD-C2D | -2.68 | 1.45        | 1.50     |
| 17  | B     | 820 | CLA  | CHC-C1C | 2.68  | 1.41        | 1.35     |
| 25  | 4     | 615 | ZEX  | C24-C25 | 2.67  | 1.53        | 1.50     |
| 25  | 5     | 616 | ZEX  | C12-C13 | 2.67  | 1.51        | 1.45     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | A     | 803 | CLA  | CHC-C1C | 2.67  | 1.41        | 1.35     |
| 17  | A     | 815 | CLA  | CMB-C2B | -2.67 | 1.46        | 1.51     |
| 17  | A     | 806 | CLA  | CHC-C1C | 2.67  | 1.41        | 1.35     |
| 17  | 1     | 608 | CLA  | CMB-C2B | -2.67 | 1.46        | 1.51     |
| 17  | 3     | 207 | CLA  | CMB-C2B | -2.67 | 1.46        | 1.51     |
| 17  | B     | 817 | CLA  | CMB-C2B | -2.66 | 1.46        | 1.51     |
| 17  | L     | 203 | CLA  | C1D-ND  | 2.66  | 1.41        | 1.37     |
| 17  | B     | 815 | CLA  | CMB-C2B | -2.66 | 1.46        | 1.51     |
| 17  | A     | 838 | CLA  | C1D-ND  | 2.66  | 1.41        | 1.37     |
| 22  | A     | 849 | BGC  | O3-C3   | -2.66 | 1.36        | 1.43     |
| 25  | 3     | 216 | ZEX  | C32-C33 | 2.66  | 1.51        | 1.45     |
| 17  | 2     | 611 | CLA  | CMB-C2B | -2.66 | 1.46        | 1.51     |
| 17  | B     | 831 | CLA  | MG-ND   | -2.66 | 2.00        | 2.05     |
| 17  | B     | 825 | CLA  | C3B-C2B | -2.66 | 1.36        | 1.40     |
| 17  | J     | 103 | CLA  | CMB-C2B | -2.66 | 1.46        | 1.51     |
| 17  | A     | 821 | CLA  | CHC-C1C | 2.66  | 1.41        | 1.35     |
| 17  | A     | 807 | CLA  | CMD-C2D | -2.66 | 1.45        | 1.50     |
| 17  | J     | 101 | CLA  | CMB-C2B | -2.65 | 1.46        | 1.51     |
| 17  | A     | 836 | CLA  | CHC-C1C | 2.65  | 1.41        | 1.35     |
| 17  | 2     | 606 | CLA  | CMB-C2B | -2.65 | 1.46        | 1.51     |
| 17  | 2     | 612 | CLA  | CMB-C2B | -2.65 | 1.46        | 1.51     |
| 17  | B     | 825 | CLA  | CHC-C1C | 2.65  | 1.41        | 1.35     |
| 25  | 1     | 617 | ZEX  | C8-C7   | 2.65  | 1.41        | 1.33     |
| 17  | A     | 824 | CLA  | C3B-CAB | -2.65 | 1.42        | 1.47     |
| 25  | 1     | 615 | ZEX  | C32-C33 | 2.65  | 1.51        | 1.45     |
| 17  | A     | 803 | CLA  | C3B-C2B | -2.65 | 1.36        | 1.40     |
| 17  | A     | 822 | CLA  | C3B-CAB | -2.65 | 1.42        | 1.47     |
| 17  | L     | 204 | CLA  | C3B-CAB | -2.64 | 1.42        | 1.47     |
| 17  | A     | 811 | CLA  | CHC-C1C | 2.64  | 1.41        | 1.35     |
| 17  | B     | 826 | CLA  | C3B-C2B | -2.64 | 1.36        | 1.40     |
| 17  | B     | 817 | CLA  | CMD-C2D | -2.64 | 1.45        | 1.50     |
| 17  | O     | 205 | CLA  | CMD-C2D | -2.64 | 1.45        | 1.50     |
| 17  | B     | 829 | CLA  | CMB-C2B | -2.64 | 1.46        | 1.51     |
| 17  | 4     | 601 | CLA  | CHC-C1C | 2.64  | 1.41        | 1.35     |
| 17  | 3     | 211 | CLA  | CMB-C2B | -2.64 | 1.46        | 1.51     |
| 17  | 2     | 607 | CLA  | CMB-C2B | -2.64 | 1.46        | 1.51     |
| 17  | 3     | 206 | CLA  | C3B-C2B | -2.63 | 1.36        | 1.40     |
| 17  | B     | 821 | CLA  | CMD-C2D | -2.63 | 1.45        | 1.50     |
| 17  | A     | 825 | CLA  | CMB-C2B | -2.63 | 1.46        | 1.51     |
| 17  | A     | 803 | CLA  | C1D-ND  | 2.63  | 1.41        | 1.37     |
| 17  | A     | 804 | CLA  | CMB-C2B | -2.63 | 1.46        | 1.51     |
| 17  | A     | 823 | CLA  | CHC-C1C | 2.63  | 1.41        | 1.35     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | O     | 201 | CLA  | CMB-C2B | -2.63 | 1.46        | 1.51     |
| 25  | 3     | 217 | ZEX  | C1-C6   | 2.63  | 1.57        | 1.53     |
| 17  | A     | 812 | CLA  | CMD-C2D | -2.63 | 1.45        | 1.50     |
| 17  | A     | 824 | CLA  | C3B-C2B | -2.63 | 1.36        | 1.40     |
| 25  | 3     | 217 | ZEX  | C8-C7   | 2.63  | 1.41        | 1.33     |
| 17  | 4     | 601 | CLA  | CMB-C2B | -2.62 | 1.46        | 1.51     |
| 17  | A     | 816 | CLA  | CHC-C1C | 2.62  | 1.41        | 1.35     |
| 25  | 3     | 217 | ZEX  | C24-C25 | 2.62  | 1.53        | 1.50     |
| 17  | 5     | 606 | CLA  | C3B-CAB | -2.62 | 1.42        | 1.47     |
| 17  | L     | 204 | CLA  | CMB-C2B | -2.62 | 1.46        | 1.51     |
| 17  | 1     | 605 | CLA  | CMB-C2B | -2.62 | 1.46        | 1.51     |
| 17  | A     | 808 | CLA  | CHC-C1C | 2.62  | 1.41        | 1.35     |
| 17  | L     | 204 | CLA  | C3B-C2B | -2.62 | 1.36        | 1.40     |
| 17  | A     | 831 | CLA  | MG-ND   | -2.62 | 2.00        | 2.05     |
| 17  | B     | 801 | CLA  | MG-ND   | -2.62 | 2.00        | 2.05     |
| 25  | 2     | 616 | ZEX  | C8-C7   | 2.62  | 1.41        | 1.33     |
| 17  | 1     | 606 | CLA  | CHC-C1C | 2.61  | 1.41        | 1.35     |
| 17  | 1     | 604 | CLA  | CMB-C2B | -2.61 | 1.46        | 1.51     |
| 17  | B     | 810 | CLA  | CMB-C2B | -2.61 | 1.46        | 1.51     |
| 17  | A     | 829 | CLA  | MG-ND   | -2.61 | 2.00        | 2.05     |
| 17  | A     | 818 | CLA  | CHC-C1C | 2.61  | 1.41        | 1.35     |
| 17  | B     | 808 | CLA  | MG-ND   | -2.61 | 2.00        | 2.05     |
| 17  | 1     | 611 | CLA  | CMB-C2B | -2.61 | 1.46        | 1.51     |
| 17  | 5     | 608 | CLA  | CMB-C2B | -2.61 | 1.46        | 1.51     |
| 17  | 3     | 204 | CLA  | CMB-C2B | -2.61 | 1.46        | 1.51     |
| 17  | B     | 842 | CLA  | CMD-C2D | -2.61 | 1.45        | 1.50     |
| 17  | A     | 827 | CLA  | C3B-CAB | -2.61 | 1.42        | 1.47     |
| 25  | 5     | 617 | ZEX  | C8-C7   | 2.61  | 1.40        | 1.33     |
| 17  | 3     | 204 | CLA  | CMD-C2D | -2.61 | 1.45        | 1.50     |
| 20  | L     | 205 | BCR  | C30-C25 | -2.61 | 1.50        | 1.53     |
| 17  | J     | 102 | CLA  | CMB-C2B | -2.60 | 1.46        | 1.51     |
| 25  | 3     | 216 | ZEX  | C1-C6   | 2.60  | 1.57        | 1.53     |
| 17  | B     | 807 | CLA  | CMB-C2B | -2.60 | 1.46        | 1.51     |
| 17  | B     | 814 | CLA  | CMC-C2C | -2.60 | 1.45        | 1.50     |
| 25  | 1     | 613 | ZEX  | C8-C7   | 2.60  | 1.40        | 1.33     |
| 17  | 1     | 611 | CLA  | CMD-C2D | -2.60 | 1.45        | 1.50     |
| 17  | 2     | 609 | CLA  | CMB-C2B | -2.60 | 1.46        | 1.51     |
| 17  | B     | 825 | CLA  | MG-ND   | -2.59 | 2.00        | 2.05     |
| 25  | 1     | 615 | ZEX  | C8-C7   | 2.59  | 1.40        | 1.33     |
| 17  | 5     | 609 | CLA  | C4D-ND  | -2.59 | 1.34        | 1.37     |
| 17  | B     | 823 | CLA  | CMB-C2B | -2.59 | 1.46        | 1.51     |
| 17  | B     | 804 | CLA  | CMD-C2D | -2.59 | 1.45        | 1.50     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | A     | 835 | CLA  | MG-ND   | -2.59 | 2.00        | 2.05     |
| 17  | A     | 815 | CLA  | CMC-C2C | -2.59 | 1.45        | 1.50     |
| 17  | 4     | 606 | CLA  | CMD-C2D | -2.59 | 1.45        | 1.50     |
| 17  | 2     | 601 | CLA  | CMB-C2B | -2.59 | 1.46        | 1.51     |
| 17  | B     | 813 | CLA  | CHC-C1C | 2.59  | 1.41        | 1.35     |
| 25  | 1     | 616 | ZEX  | C1-C6   | 2.59  | 1.57        | 1.53     |
| 17  | A     | 831 | CLA  | CHC-C1C | 2.58  | 1.41        | 1.35     |
| 17  | B     | 827 | CLA  | MG-ND   | -2.58 | 2.00        | 2.05     |
| 20  | L     | 205 | BCR  | C1-C6   | -2.58 | 1.50        | 1.53     |
| 17  | 4     | 606 | CLA  | CMB-C2B | -2.58 | 1.46        | 1.51     |
| 17  | A     | 848 | CLA  | CMD-C2D | -2.58 | 1.45        | 1.50     |
| 17  | J     | 102 | CLA  | C3B-C2B | -2.58 | 1.36        | 1.40     |
| 17  | K     | 102 | CLA  | CMB-C2B | -2.58 | 1.46        | 1.51     |
| 17  | A     | 833 | CLA  | C1D-ND  | 2.58  | 1.41        | 1.37     |
| 17  | B     | 824 | CLA  | CMB-C2B | -2.58 | 1.46        | 1.51     |
| 17  | A     | 809 | CLA  | CMD-C2D | -2.58 | 1.45        | 1.50     |
| 17  | 2     | 605 | CLA  | CMB-C2B | -2.58 | 1.46        | 1.51     |
| 17  | B     | 804 | CLA  | MG-ND   | -2.58 | 2.00        | 2.05     |
| 17  | A     | 811 | CLA  | CMC-C2C | -2.58 | 1.45        | 1.50     |
| 16  | A     | 801 | CL0  | C5-C3   | -2.57 | 1.45        | 1.51     |
| 17  | B     | 830 | CLA  | CHC-C1C | 2.57  | 1.41        | 1.35     |
| 25  | 5     | 615 | ZEX  | C12-C13 | 2.57  | 1.51        | 1.45     |
| 25  | 5     | 615 | ZEX  | C8-C7   | 2.57  | 1.40        | 1.33     |
| 17  | 1     | 606 | CLA  | C3B-C2B | -2.57 | 1.36        | 1.40     |
| 17  | 1     | 603 | CLA  | C1D-ND  | 2.57  | 1.40        | 1.37     |
| 17  | B     | 831 | CLA  | CHC-C1C | 2.57  | 1.41        | 1.35     |
| 17  | A     | 838 | CLA  | CMC-C2C | -2.57 | 1.45        | 1.50     |
| 17  | B     | 841 | CLA  | CMD-C2D | -2.57 | 1.45        | 1.50     |
| 25  | 1     | 616 | ZEX  | C12-C13 | 2.57  | 1.51        | 1.45     |
| 17  | A     | 803 | CLA  | MG-ND   | -2.56 | 2.00        | 2.05     |
| 17  | A     | 835 | CLA  | CMB-C2B | -2.56 | 1.46        | 1.51     |
| 17  | 2     | 604 | CLA  | CMB-C2B | -2.56 | 1.46        | 1.51     |
| 17  | B     | 809 | CLA  | MG-ND   | -2.56 | 2.00        | 2.05     |
| 17  | 1     | 608 | CLA  | CMC-C2C | -2.56 | 1.45        | 1.50     |
| 17  | A     | 805 | CLA  | C3B-CAB | -2.56 | 1.42        | 1.47     |
| 17  | A     | 808 | CLA  | C3B-C2B | -2.56 | 1.36        | 1.40     |
| 17  | L     | 202 | CLA  | C3B-C2B | -2.56 | 1.36        | 1.40     |
| 17  | A     | 837 | CLA  | MG-ND   | -2.56 | 2.00        | 2.05     |
| 17  | A     | 807 | CLA  | CHC-C1C | 2.56  | 1.41        | 1.35     |
| 17  | A     | 812 | CLA  | CMB-C2B | -2.56 | 1.46        | 1.51     |
| 17  | B     | 806 | CLA  | CMC-C2C | -2.55 | 1.45        | 1.50     |
| 17  | A     | 831 | CLA  | C1D-ND  | 2.55  | 1.40        | 1.37     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | J     | 102 | CLA  | C3B-CAB | -2.55 | 1.42        | 1.47     |
| 25  | 4     | 617 | ZEX  | C8-C7   | 2.55  | 1.40        | 1.33     |
| 17  | B     | 811 | CLA  | CHC-C1C | 2.55  | 1.41        | 1.35     |
| 17  | B     | 823 | CLA  | CMD-C2D | -2.55 | 1.45        | 1.50     |
| 17  | A     | 803 | CLA  | CMD-C2D | -2.55 | 1.45        | 1.50     |
| 17  | A     | 807 | CLA  | MG-ND   | -2.55 | 2.00        | 2.05     |
| 17  | 1     | 608 | CLA  | C3B-C2B | -2.55 | 1.36        | 1.40     |
| 17  | L     | 203 | CLA  | CMD-C2D | -2.55 | 1.45        | 1.50     |
| 25  | 4     | 612 | ZEX  | C24-C25 | 2.54  | 1.53        | 1.50     |
| 17  | A     | 835 | CLA  | C3B-CAB | -2.54 | 1.42        | 1.47     |
| 25  | 2     | 617 | ZEX  | C8-C9   | 2.54  | 1.51        | 1.45     |
| 17  | A     | 806 | CLA  | C1D-ND  | 2.54  | 1.40        | 1.37     |
| 25  | 3     | 216 | ZEX  | C8-C7   | 2.54  | 1.40        | 1.33     |
| 17  | B     | 838 | CLA  | CMC-C2C | -2.54 | 1.45        | 1.50     |
| 17  | A     | 839 | CLA  | CHC-C1C | 2.54  | 1.41        | 1.35     |
| 17  | A     | 813 | CLA  | CMB-C2B | -2.54 | 1.46        | 1.51     |
| 17  | B     | 835 | CLA  | C1D-ND  | 2.54  | 1.40        | 1.37     |
| 17  | 1     | 602 | CLA  | CHC-C1C | 2.54  | 1.41        | 1.35     |
| 17  | 2     | 610 | CLA  | CMB-C2B | -2.54 | 1.46        | 1.51     |
| 25  | 4     | 612 | ZEX  | C1-C6   | 2.54  | 1.57        | 1.53     |
| 25  | 5     | 614 | ZEX  | C8-C7   | 2.53  | 1.40        | 1.33     |
| 17  | A     | 838 | CLA  | C3B-C2B | -2.53 | 1.36        | 1.40     |
| 17  | A     | 828 | CLA  | C4B-CHC | -2.53 | 1.34        | 1.41     |
| 17  | A     | 814 | CLA  | C3B-C2B | -2.53 | 1.36        | 1.40     |
| 25  | 3     | 215 | ZEX  | C12-C13 | 2.53  | 1.51        | 1.45     |
| 17  | B     | 843 | CLA  | CMB-C2B | -2.53 | 1.46        | 1.51     |
| 17  | K     | 103 | CLA  | CMB-C2B | -2.53 | 1.46        | 1.51     |
| 17  | A     | 839 | CLA  | CMD-C2D | -2.53 | 1.45        | 1.50     |
| 17  | B     | 802 | CLA  | CMD-C2D | -2.53 | 1.45        | 1.50     |
| 20  | I     | 101 | BCR  | C1-C6   | -2.53 | 1.50        | 1.53     |
| 17  | 1     | 607 | CLA  | CMB-C2B | -2.53 | 1.46        | 1.51     |
| 25  | 4     | 616 | ZEX  | C8-C7   | 2.53  | 1.40        | 1.33     |
| 17  | A     | 807 | CLA  | C3B-CAB | -2.53 | 1.42        | 1.47     |
| 17  | 2     | 613 | CLA  | CMB-C2B | -2.53 | 1.46        | 1.51     |
| 17  | A     | 848 | CLA  | CMB-C2B | -2.53 | 1.46        | 1.51     |
| 17  | 5     | 613 | CLA  | CMB-C2B | -2.53 | 1.46        | 1.51     |
| 17  | A     | 830 | CLA  | C1D-ND  | 2.52  | 1.40        | 1.37     |
| 17  | A     | 805 | CLA  | CMD-C2D | -2.52 | 1.45        | 1.50     |
| 25  | 1     | 616 | ZEX  | C8-C7   | 2.52  | 1.40        | 1.33     |
| 17  | B     | 828 | CLA  | C3B-C2B | -2.52 | 1.36        | 1.40     |
| 17  | A     | 803 | CLA  | C3B-CAB | -2.52 | 1.42        | 1.47     |
| 17  | 2     | 603 | CLA  | CMD-C2D | -2.52 | 1.45        | 1.50     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | B     | 838 | CLA  | CHC-C1C | 2.52  | 1.41        | 1.35     |
| 25  | 4     | 613 | ZEX  | C12-C13 | 2.52  | 1.51        | 1.45     |
| 25  | 3     | 214 | ZEX  | C8-C7   | 2.52  | 1.40        | 1.33     |
| 17  | A     | 818 | CLA  | CMD-C2D | -2.52 | 1.45        | 1.50     |
| 17  | B     | 840 | CLA  | C1D-ND  | 2.52  | 1.40        | 1.37     |
| 17  | B     | 812 | CLA  | MG-ND   | -2.52 | 2.00        | 2.05     |
| 17  | B     | 834 | CLA  | C3B-C2B | -2.52 | 1.36        | 1.40     |
| 25  | 1     | 617 | ZEX  | C32-C33 | 2.52  | 1.51        | 1.45     |
| 17  | A     | 820 | CLA  | CMD-C2D | -2.52 | 1.45        | 1.50     |
| 17  | 3     | 202 | CLA  | CMB-C2B | -2.52 | 1.46        | 1.51     |
| 17  | B     | 822 | CLA  | CHC-C1C | 2.52  | 1.41        | 1.35     |
| 17  | B     | 826 | CLA  | C3B-CAB | -2.51 | 1.42        | 1.47     |
| 17  | B     | 819 | CLA  | CMB-C2B | -2.51 | 1.46        | 1.51     |
| 25  | 2     | 615 | ZEX  | C8-C7   | 2.51  | 1.40        | 1.33     |
| 17  | 1     | 611 | CLA  | MG-ND   | -2.51 | 2.00        | 2.05     |
| 17  | A     | 807 | CLA  | C3B-C2B | -2.51 | 1.36        | 1.40     |
| 17  | B     | 821 | CLA  | CHC-C1C | 2.51  | 1.41        | 1.35     |
| 17  | A     | 815 | CLA  | C1D-ND  | 2.51  | 1.40        | 1.37     |
| 17  | B     | 804 | CLA  | CMC-C2C | -2.51 | 1.45        | 1.50     |
| 17  | 4     | 611 | CLA  | CMB-C2B | -2.51 | 1.46        | 1.51     |
| 17  | A     | 815 | CLA  | CMD-C2D | -2.51 | 1.45        | 1.50     |
| 17  | 3     | 205 | CLA  | CMC-C2C | -2.51 | 1.45        | 1.50     |
| 17  | A     | 813 | CLA  | CMD-C2D | -2.50 | 1.45        | 1.50     |
| 17  | 1     | 603 | CLA  | MG-ND   | -2.50 | 2.00        | 2.05     |
| 17  | J     | 101 | CLA  | CMD-C2D | -2.50 | 1.45        | 1.50     |
| 17  | B     | 801 | CLA  | CMC-C2C | -2.50 | 1.45        | 1.50     |
| 17  | B     | 810 | CLA  | C3B-C2B | -2.50 | 1.36        | 1.40     |
| 17  | F     | 302 | CLA  | CMD-C2D | -2.50 | 1.45        | 1.50     |
| 17  | 3     | 213 | CLA  | CMB-C2B | -2.50 | 1.46        | 1.51     |
| 25  | 3     | 215 | ZEX  | C32-C33 | 2.50  | 1.51        | 1.45     |
| 25  | 1     | 614 | ZEX  | C32-C33 | 2.49  | 1.51        | 1.45     |
| 17  | A     | 817 | CLA  | MG-ND   | -2.49 | 2.00        | 2.05     |
| 25  | 4     | 613 | ZEX  | C1-C6   | 2.49  | 1.57        | 1.53     |
| 17  | B     | 834 | CLA  | CMC-C2C | -2.49 | 1.45        | 1.50     |
| 17  | A     | 802 | CLA  | CMC-C2C | -2.49 | 1.45        | 1.50     |
| 17  | B     | 829 | CLA  | CMC-C2C | -2.49 | 1.45        | 1.50     |
| 17  | A     | 811 | CLA  | C3B-CAB | -2.49 | 1.42        | 1.47     |
| 25  | 4     | 614 | ZEX  | C12-C13 | 2.49  | 1.51        | 1.45     |
| 17  | 5     | 612 | CLA  | CMB-C2B | -2.49 | 1.46        | 1.51     |
| 17  | A     | 826 | CLA  | CMD-C2D | -2.49 | 1.45        | 1.50     |
| 17  | A     | 835 | CLA  | C1D-ND  | 2.49  | 1.40        | 1.37     |
| 17  | 1     | 611 | CLA  | C1D-ND  | 2.48  | 1.40        | 1.37     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | A     | 807 | CLA  | CMC-C2C | -2.48 | 1.45        | 1.50     |
| 17  | A     | 817 | CLA  | CMD-C2D | -2.48 | 1.45        | 1.50     |
| 25  | 5     | 617 | ZEX  | C24-C25 | 2.48  | 1.52        | 1.50     |
| 17  | K     | 103 | CLA  | CMC-C2C | -2.48 | 1.45        | 1.50     |
| 25  | 1     | 613 | ZEX  | C12-C13 | 2.48  | 1.51        | 1.45     |
| 25  | 2     | 617 | ZEX  | C32-C33 | 2.48  | 1.51        | 1.45     |
| 17  | A     | 805 | CLA  | CMC-C2C | -2.48 | 1.45        | 1.50     |
| 17  | A     | 826 | CLA  | MG-ND   | -2.48 | 2.00        | 2.05     |
| 17  | A     | 831 | CLA  | C3B-C2B | -2.48 | 1.36        | 1.40     |
| 25  | 3     | 217 | ZEX  | C12-C13 | 2.48  | 1.51        | 1.45     |
| 17  | B     | 838 | CLA  | CMD-C2D | -2.48 | 1.45        | 1.50     |
| 23  | B     | 851 | DGD  | O1G-C1G | -2.48 | 1.39        | 1.45     |
| 17  | 1     | 612 | CLA  | CMB-C2B | -2.48 | 1.46        | 1.51     |
| 17  | 4     | 610 | CLA  | CMB-C2B | -2.47 | 1.46        | 1.51     |
| 17  | B     | 812 | CLA  | CMD-C2D | -2.47 | 1.45        | 1.50     |
| 17  | B     | 839 | CLA  | CMD-C2D | -2.47 | 1.45        | 1.50     |
| 17  | 5     | 605 | CLA  | CMB-C2B | -2.47 | 1.46        | 1.51     |
| 17  | A     | 830 | CLA  | MG-ND   | -2.47 | 2.00        | 2.05     |
| 17  | O     | 201 | CLA  | CMC-C2C | -2.47 | 1.45        | 1.50     |
| 25  | 3     | 216 | ZEX  | C12-C13 | 2.47  | 1.51        | 1.45     |
| 17  | 1     | 603 | CLA  | C3B-CAB | -2.47 | 1.42        | 1.47     |
| 17  | J     | 103 | CLA  | C3B-C2B | -2.47 | 1.36        | 1.40     |
| 17  | J     | 102 | CLA  | CMC-C2C | -2.47 | 1.45        | 1.50     |
| 17  | B     | 833 | CLA  | C3B-CAB | -2.47 | 1.42        | 1.47     |
| 17  | 1     | 606 | CLA  | CMD-C2D | -2.47 | 1.45        | 1.50     |
| 17  | F     | 301 | CLA  | C3B-C2B | -2.46 | 1.36        | 1.40     |
| 17  | B     | 831 | CLA  | C1D-ND  | 2.46  | 1.40        | 1.37     |
| 25  | 2     | 614 | ZEX  | C8-C7   | 2.46  | 1.40        | 1.33     |
| 25  | 4     | 616 | ZEX  | C1-C6   | 2.46  | 1.57        | 1.53     |
| 17  | B     | 814 | CLA  | CMD-C2D | -2.46 | 1.45        | 1.50     |
| 17  | 1     | 612 | CLA  | CMD-C2D | -2.46 | 1.45        | 1.50     |
| 17  | O     | 205 | CLA  | CMB-C2B | -2.46 | 1.46        | 1.51     |
| 17  | 4     | 601 | CLA  | CMC-C2C | -2.46 | 1.45        | 1.50     |
| 17  | B     | 829 | CLA  | MG-ND   | -2.46 | 2.00        | 2.05     |
| 17  | B     | 803 | CLA  | C3B-CAB | -2.46 | 1.42        | 1.47     |
| 17  | A     | 809 | CLA  | CMC-C2C | -2.45 | 1.45        | 1.50     |
| 17  | A     | 817 | CLA  | CHC-C1C | 2.45  | 1.41        | 1.35     |
| 17  | 4     | 604 | CLA  | CMB-C2B | -2.45 | 1.46        | 1.51     |
| 17  | A     | 825 | CLA  | CMD-C2D | -2.45 | 1.45        | 1.50     |
| 17  | B     | 806 | CLA  | CHC-C1C | 2.45  | 1.41        | 1.35     |
| 17  | A     | 820 | CLA  | C1D-ND  | 2.45  | 1.40        | 1.37     |
| 22  | A     | 849 | BGC  | C2-C3   | 2.45  | 1.56        | 1.52     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 25  | 3     | 215 | ZEX  | C8-C7   | 2.45  | 1.40        | 1.33     |
| 17  | B     | 823 | CLA  | MG-ND   | -2.45 | 2.00        | 2.05     |
| 17  | B     | 808 | CLA  | C3B-CAB | -2.44 | 1.43        | 1.47     |
| 17  | 1     | 604 | CLA  | MG-ND   | -2.44 | 2.00        | 2.05     |
| 17  | B     | 829 | CLA  | C3B-CAB | -2.44 | 1.43        | 1.47     |
| 17  | A     | 831 | CLA  | CMC-C2C | -2.44 | 1.45        | 1.50     |
| 17  | 4     | 607 | CLA  | CMB-C2B | -2.44 | 1.46        | 1.51     |
| 17  | 2     | 602 | CLA  | CMC-C2C | -2.44 | 1.45        | 1.50     |
| 17  | 1     | 606 | CLA  | MG-ND   | -2.44 | 2.00        | 2.05     |
| 17  | 3     | 203 | CLA  | CMB-C2B | -2.44 | 1.46        | 1.51     |
| 17  | A     | 832 | CLA  | CHC-C1C | 2.44  | 1.41        | 1.35     |
| 17  | B     | 842 | CLA  | CHC-C1C | 2.44  | 1.41        | 1.35     |
| 17  | A     | 820 | CLA  | MG-ND   | -2.43 | 2.01        | 2.05     |
| 25  | 4     | 612 | ZEX  | C12-C13 | 2.43  | 1.51        | 1.45     |
| 17  | B     | 822 | CLA  | C3B-CAB | -2.43 | 1.43        | 1.47     |
| 25  | 4     | 615 | ZEX  | C12-C13 | 2.43  | 1.51        | 1.45     |
| 17  | B     | 830 | CLA  | C1D-ND  | 2.43  | 1.40        | 1.37     |
| 17  | 3     | 212 | CLA  | CMB-C2B | -2.43 | 1.46        | 1.51     |
| 17  | 3     | 208 | CLA  | CMC-C2C | -2.43 | 1.45        | 1.50     |
| 17  | A     | 833 | CLA  | CMD-C2D | -2.43 | 1.45        | 1.50     |
| 17  | B     | 834 | CLA  | MG-ND   | -2.43 | 2.01        | 2.05     |
| 17  | 4     | 606 | CLA  | CHC-C1C | 2.43  | 1.41        | 1.35     |
| 17  | B     | 812 | CLA  | CHC-C1C | 2.43  | 1.41        | 1.35     |
| 17  | 3     | 206 | CLA  | CMD-C2D | -2.43 | 1.45        | 1.50     |
| 17  | B     | 822 | CLA  | MG-ND   | -2.43 | 2.01        | 2.05     |
| 17  | F     | 301 | CLA  | CMD-C2D | -2.43 | 1.45        | 1.50     |
| 17  | K     | 102 | CLA  | CMD-C2D | -2.43 | 1.45        | 1.50     |
| 17  | B     | 808 | CLA  | CHC-C1C | 2.42  | 1.41        | 1.35     |
| 17  | 4     | 609 | CLA  | CMB-C2B | -2.42 | 1.46        | 1.51     |
| 17  | 5     | 603 | CLA  | CMB-C2B | -2.42 | 1.46        | 1.51     |
| 25  | 4     | 616 | ZEX  | C12-C13 | 2.42  | 1.51        | 1.45     |
| 17  | 1     | 609 | CLA  | CMB-C2B | -2.42 | 1.46        | 1.51     |
| 17  | A     | 810 | CLA  | CMD-C2D | -2.42 | 1.45        | 1.50     |
| 17  | A     | 813 | CLA  | CMC-C2C | -2.42 | 1.45        | 1.50     |
| 17  | 5     | 601 | CLA  | CMB-C2B | -2.42 | 1.46        | 1.51     |
| 17  | B     | 813 | CLA  | CMC-C2C | -2.42 | 1.45        | 1.50     |
| 17  | A     | 823 | CLA  | MG-ND   | -2.42 | 2.01        | 2.05     |
| 17  | F     | 301 | CLA  | CMC-C2C | -2.42 | 1.45        | 1.50     |
| 17  | A     | 805 | CLA  | MG-ND   | -2.42 | 2.01        | 2.05     |
| 17  | B     | 801 | CLA  | CAC-C3C | -2.42 | 1.44        | 1.51     |
| 17  | A     | 827 | CLA  | CMC-C2C | -2.41 | 1.45        | 1.50     |
| 17  | B     | 814 | CLA  | CHC-C1C | 2.41  | 1.41        | 1.35     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | B     | 825 | CLA  | CMD-C2D | -2.41 | 1.45        | 1.50     |
| 25  | 1     | 615 | ZEX  | C24-C25 | 2.41  | 1.52        | 1.50     |
| 17  | A     | 811 | CLA  | CMD-C2D | -2.41 | 1.45        | 1.50     |
| 17  | A     | 810 | CLA  | C3B-C2B | -2.41 | 1.37        | 1.40     |
| 17  | B     | 832 | CLA  | CHC-C1C | 2.41  | 1.41        | 1.35     |
| 17  | 3     | 206 | CLA  | MG-ND   | -2.41 | 2.01        | 2.05     |
| 18  | A     | 840 | PQN  | C5-C4   | -2.41 | 1.43        | 1.48     |
| 17  | B     | 803 | CLA  | CMC-C2C | -2.41 | 1.45        | 1.50     |
| 17  | 5     | 604 | CLA  | CMD-C2D | -2.41 | 1.45        | 1.50     |
| 17  | A     | 806 | CLA  | CMD-C2D | -2.41 | 1.45        | 1.50     |
| 17  | B     | 840 | CLA  | CMD-C2D | -2.41 | 1.45        | 1.50     |
| 16  | A     | 801 | CL0  | CHD-C4C | -2.41 | 1.33        | 1.39     |
| 17  | A     | 802 | CLA  | C3B-CAB | -2.40 | 1.43        | 1.47     |
| 16  | A     | 801 | CL0  | OBD-CAD | -2.40 | 1.18        | 1.22     |
| 17  | A     | 815 | CLA  | MG-ND   | -2.40 | 2.01        | 2.05     |
| 17  | A     | 804 | CLA  | CMC-C2C | -2.40 | 1.45        | 1.50     |
| 17  | A     | 815 | CLA  | C3B-CAB | -2.40 | 1.43        | 1.47     |
| 17  | 2     | 611 | CLA  | CMC-C2C | -2.40 | 1.45        | 1.50     |
| 17  | J     | 101 | CLA  | MG-ND   | -2.40 | 2.01        | 2.05     |
| 17  | 1     | 602 | CLA  | CMD-C2D | -2.40 | 1.45        | 1.50     |
| 17  | A     | 848 | CLA  | C3B-CAB | -2.40 | 1.43        | 1.47     |
| 17  | 3     | 205 | CLA  | C3B-C2B | -2.40 | 1.37        | 1.40     |
| 17  | 1     | 610 | CLA  | CMD-C2D | -2.40 | 1.45        | 1.50     |
| 16  | A     | 801 | CL0  | C3B-C2B | 2.40  | 1.43        | 1.40     |
| 17  | B     | 829 | CLA  | CMD-C2D | -2.40 | 1.45        | 1.50     |
| 17  | B     | 816 | CLA  | MG-ND   | -2.40 | 2.01        | 2.05     |
| 17  | A     | 836 | CLA  | CMC-C2C | -2.39 | 1.45        | 1.50     |
| 17  | B     | 811 | CLA  | CMC-C2C | -2.39 | 1.45        | 1.50     |
| 17  | A     | 833 | CLA  | MG-ND   | -2.39 | 2.01        | 2.05     |
| 17  | A     | 824 | CLA  | MG-ND   | -2.39 | 2.01        | 2.05     |
| 17  | A     | 802 | CLA  | C3B-C2B | -2.39 | 1.37        | 1.40     |
| 17  | 1     | 604 | CLA  | CMD-C2D | -2.39 | 1.45        | 1.50     |
| 17  | A     | 819 | CLA  | C3B-C2B | -2.39 | 1.37        | 1.40     |
| 17  | 3     | 210 | CLA  | CMB-C2B | -2.39 | 1.46        | 1.51     |
| 17  | 4     | 603 | CLA  | CMB-C2B | -2.39 | 1.46        | 1.51     |
| 17  | B     | 836 | CLA  | CMC-C2C | -2.39 | 1.45        | 1.50     |
| 17  | B     | 840 | CLA  | MG-ND   | -2.39 | 2.01        | 2.05     |
| 20  | J     | 104 | BCR  | C38-C26 | -2.39 | 1.47        | 1.50     |
| 17  | A     | 821 | CLA  | C3B-C2B | -2.39 | 1.37        | 1.40     |
| 17  | A     | 806 | CLA  | C3B-CAB | -2.39 | 1.43        | 1.47     |
| 17  | B     | 841 | CLA  | MG-ND   | -2.39 | 2.01        | 2.05     |
| 17  | 3     | 209 | CLA  | CMB-C2B | -2.39 | 1.46        | 1.51     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | B     | 836 | CLA  | C3B-C2B | -2.39 | 1.37        | 1.40     |
| 17  | 5     | 609 | CLA  | CMB-C2B | -2.39 | 1.46        | 1.51     |
| 17  | A     | 831 | CLA  | CMD-C2D | -2.38 | 1.45        | 1.50     |
| 17  | B     | 831 | CLA  | CMC-C2C | -2.38 | 1.45        | 1.50     |
| 17  | 5     | 603 | CLA  | C3B-CAB | -2.38 | 1.43        | 1.47     |
| 17  | B     | 817 | CLA  | MG-ND   | -2.38 | 2.01        | 2.05     |
| 17  | A     | 802 | CLA  | CMD-C2D | -2.38 | 1.45        | 1.50     |
| 17  | A     | 804 | CLA  | CMD-C2D | -2.37 | 1.45        | 1.50     |
| 17  | B     | 841 | CLA  | C3B-C2B | -2.37 | 1.37        | 1.40     |
| 17  | 3     | 207 | CLA  | C3B-CAB | -2.37 | 1.43        | 1.47     |
| 17  | 2     | 611 | CLA  | C3B-C2B | -2.37 | 1.37        | 1.40     |
| 17  | B     | 839 | CLA  | CMC-C2C | -2.37 | 1.45        | 1.50     |
| 17  | A     | 836 | CLA  | C3B-CAB | -2.37 | 1.43        | 1.47     |
| 17  | F     | 303 | CLA  | C3B-C2B | -2.37 | 1.37        | 1.40     |
| 17  | B     | 832 | CLA  | C1B-NB  | -2.37 | 1.33        | 1.35     |
| 25  | 3     | 214 | ZEX  | C12-C13 | 2.36  | 1.51        | 1.45     |
| 17  | 3     | 208 | CLA  | C3B-C2B | -2.36 | 1.37        | 1.40     |
| 17  | A     | 839 | CLA  | MG-ND   | -2.36 | 2.01        | 2.05     |
| 17  | B     | 807 | CLA  | CMC-C2C | -2.36 | 1.45        | 1.50     |
| 17  | B     | 818 | CLA  | MG-ND   | -2.36 | 2.01        | 2.05     |
| 19  | A     | 842 | LHG  | O7-C5   | -2.36 | 1.40        | 1.46     |
| 17  | J     | 102 | CLA  | CMD-C2D | -2.36 | 1.45        | 1.50     |
| 17  | A     | 833 | CLA  | C3B-C2B | -2.35 | 1.37        | 1.40     |
| 17  | A     | 821 | CLA  | CMD-C2D | -2.35 | 1.45        | 1.50     |
| 17  | B     | 835 | CLA  | CMD-C2D | -2.35 | 1.45        | 1.50     |
| 17  | A     | 836 | CLA  | MG-ND   | -2.35 | 2.01        | 2.05     |
| 17  | 3     | 208 | CLA  | C3B-CAB | -2.35 | 1.43        | 1.47     |
| 17  | B     | 832 | CLA  | CMC-C2C | -2.35 | 1.45        | 1.50     |
| 17  | 2     | 606 | CLA  | CMC-C2C | -2.35 | 1.45        | 1.50     |
| 25  | 4     | 617 | ZEX  | C12-C13 | 2.35  | 1.51        | 1.45     |
| 17  | A     | 817 | CLA  | CMC-C2C | -2.35 | 1.45        | 1.50     |
| 17  | 2     | 602 | CLA  | MG-ND   | -2.35 | 2.01        | 2.05     |
| 17  | 2     | 611 | CLA  | C3B-CAB | -2.35 | 1.43        | 1.47     |
| 17  | A     | 812 | CLA  | CMC-C2C | -2.35 | 1.45        | 1.50     |
| 17  | 2     | 608 | CLA  | MG-ND   | -2.35 | 2.01        | 2.05     |
| 17  | A     | 839 | CLA  | CMC-C2C | -2.35 | 1.45        | 1.50     |
| 17  | B     | 810 | CLA  | CMC-C2C | -2.35 | 1.45        | 1.50     |
| 17  | A     | 828 | CLA  | C1D-ND  | 2.35  | 1.40        | 1.37     |
| 17  | B     | 832 | CLA  | C4B-CHC | -2.34 | 1.34        | 1.41     |
| 17  | A     | 809 | CLA  | C3B-C2B | -2.34 | 1.37        | 1.40     |
| 17  | B     | 818 | CLA  | CMD-C2D | -2.34 | 1.45        | 1.50     |
| 17  | 5     | 609 | CLA  | C3C-C2C | 2.34  | 1.41        | 1.36     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | B     | 803 | CLA  | CMD-C2D | -2.34 | 1.45        | 1.50     |
| 17  | 1     | 602 | CLA  | MG-ND   | -2.34 | 2.01        | 2.05     |
| 17  | F     | 302 | CLA  | C3B-C2B | -2.34 | 1.37        | 1.40     |
| 17  | O     | 203 | CLA  | CMB-C2B | -2.34 | 1.46        | 1.51     |
| 17  | A     | 835 | CLA  | CMD-C2D | -2.34 | 1.45        | 1.50     |
| 17  | B     | 826 | CLA  | CMD-C2D | -2.34 | 1.45        | 1.50     |
| 17  | 2     | 608 | CLA  | CMB-C2B | -2.34 | 1.46        | 1.51     |
| 17  | 5     | 610 | CLA  | CMB-C2B | -2.33 | 1.46        | 1.51     |
| 17  | O     | 201 | CLA  | CMD-C2D | -2.33 | 1.45        | 1.50     |
| 17  | B     | 842 | CLA  | MG-ND   | -2.33 | 2.01        | 2.05     |
| 17  | B     | 813 | CLA  | CMD-C2D | -2.33 | 1.45        | 1.50     |
| 17  | B     | 815 | CLA  | CMC-C2C | -2.33 | 1.45        | 1.50     |
| 17  | 2     | 604 | CLA  | CMC-C2C | -2.33 | 1.45        | 1.50     |
| 17  | B     | 815 | CLA  | CMD-C2D | -2.33 | 1.45        | 1.50     |
| 17  | B     | 810 | CLA  | MG-ND   | -2.33 | 2.01        | 2.05     |
| 17  | B     | 820 | CLA  | CMD-C2D | -2.33 | 1.45        | 1.50     |
| 17  | 2     | 605 | CLA  | CAA-C2A | -2.33 | 1.49        | 1.54     |
| 17  | B     | 828 | CLA  | C3B-CAB | -2.33 | 1.43        | 1.47     |
| 17  | F     | 301 | CLA  | MG-ND   | -2.32 | 2.01        | 2.05     |
| 17  | 1     | 610 | CLA  | MG-ND   | -2.32 | 2.01        | 2.05     |
| 17  | 4     | 602 | CLA  | CMB-C2B | -2.32 | 1.46        | 1.51     |
| 17  | 2     | 610 | CLA  | CMC-C2C | -2.32 | 1.45        | 1.50     |
| 20  | A     | 844 | BCR  | C30-C25 | -2.32 | 1.50        | 1.53     |
| 17  | A     | 828 | CLA  | CAC-C3C | -2.32 | 1.45        | 1.51     |
| 17  | A     | 814 | CLA  | C3B-CAB | -2.31 | 1.43        | 1.47     |
| 17  | B     | 841 | CLA  | C3B-CAB | -2.31 | 1.43        | 1.47     |
| 17  | B     | 817 | CLA  | CMC-C2C | -2.31 | 1.45        | 1.50     |
| 20  | B     | 845 | BCR  | C30-C25 | -2.31 | 1.50        | 1.53     |
| 17  | A     | 806 | CLA  | MG-ND   | -2.31 | 2.01        | 2.05     |
| 17  | F     | 302 | CLA  | MG-ND   | -2.31 | 2.01        | 2.05     |
| 17  | J     | 103 | CLA  | C3B-CAB | -2.31 | 1.43        | 1.47     |
| 17  | B     | 830 | CLA  | CMD-C2D | -2.31 | 1.45        | 1.50     |
| 17  | B     | 836 | CLA  | CMD-C2D | -2.31 | 1.45        | 1.50     |
| 17  | 2     | 612 | CLA  | CMC-C2C | -2.31 | 1.45        | 1.50     |
| 17  | B     | 820 | CLA  | CMC-C2C | -2.31 | 1.45        | 1.50     |
| 17  | B     | 816 | CLA  | CMD-C2D | -2.31 | 1.45        | 1.50     |
| 17  | 5     | 606 | CLA  | C3B-C2B | -2.31 | 1.37        | 1.40     |
| 17  | A     | 806 | CLA  | CMC-C2C | -2.31 | 1.45        | 1.50     |
| 17  | A     | 838 | CLA  | C3B-CAB | -2.31 | 1.43        | 1.47     |
| 17  | A     | 837 | CLA  | CMD-C2D | -2.31 | 1.45        | 1.50     |
| 17  | B     | 834 | CLA  | CMD-C2D | -2.31 | 1.45        | 1.50     |
| 17  | K     | 102 | CLA  | MG-ND   | -2.31 | 2.01        | 2.05     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | 2     | 602 | CLA  | CMD-C2D | -2.30 | 1.45        | 1.50     |
| 17  | O     | 204 | CLA  | CMB-C2B | -2.30 | 1.46        | 1.51     |
| 17  | 5     | 606 | CLA  | C3C-C2C | 2.30  | 1.41        | 1.36     |
| 17  | B     | 839 | CLA  | MG-ND   | -2.30 | 2.01        | 2.05     |
| 17  | L     | 203 | CLA  | MG-ND   | -2.30 | 2.01        | 2.05     |
| 17  | L     | 203 | CLA  | C3B-CAB | -2.30 | 1.43        | 1.47     |
| 17  | L     | 204 | CLA  | CMD-C2D | -2.30 | 1.45        | 1.50     |
| 20  | B     | 847 | BCR  | C1-C6   | -2.30 | 1.50        | 1.53     |
| 17  | B     | 829 | CLA  | C3B-C2B | -2.30 | 1.37        | 1.40     |
| 17  | 2     | 607 | CLA  | CMD-C2D | -2.30 | 1.45        | 1.50     |
| 17  | A     | 804 | CLA  | MG-ND   | -2.30 | 2.01        | 2.05     |
| 17  | A     | 832 | CLA  | MG-ND   | -2.30 | 2.01        | 2.05     |
| 17  | A     | 838 | CLA  | CMD-C2D | -2.30 | 1.45        | 1.50     |
| 17  | A     | 822 | CLA  | MG-ND   | -2.30 | 2.01        | 2.05     |
| 17  | A     | 834 | CLA  | C3B-C2B | -2.30 | 1.37        | 1.40     |
| 17  | B     | 813 | CLA  | MG-ND   | -2.30 | 2.01        | 2.05     |
| 17  | 3     | 213 | CLA  | C3B-CAB | -2.30 | 1.43        | 1.47     |
| 17  | 3     | 204 | CLA  | MG-ND   | -2.30 | 2.01        | 2.05     |
| 17  | A     | 836 | CLA  | CMD-C2D | -2.30 | 1.45        | 1.50     |
| 17  | 2     | 602 | CLA  | C3B-C2B | -2.29 | 1.37        | 1.40     |
| 17  | B     | 807 | CLA  | CMD-C2D | -2.29 | 1.45        | 1.50     |
| 17  | B     | 809 | CLA  | CMD-C2D | -2.29 | 1.45        | 1.50     |
| 17  | 4     | 604 | CLA  | CMC-C2C | -2.29 | 1.45        | 1.50     |
| 17  | 5     | 603 | CLA  | CMC-C2C | -2.29 | 1.45        | 1.50     |
| 17  | B     | 802 | CLA  | CMC-C2C | -2.29 | 1.45        | 1.50     |
| 17  | B     | 842 | CLA  | CMC-C2C | -2.29 | 1.45        | 1.50     |
| 17  | 5     | 603 | CLA  | CMD-C2D | -2.29 | 1.45        | 1.50     |
| 17  | K     | 103 | CLA  | MG-ND   | -2.29 | 2.01        | 2.05     |
| 17  | F     | 301 | CLA  | C3B-CAB | -2.29 | 1.43        | 1.47     |
| 17  | 5     | 607 | CLA  | CMC-C2C | -2.29 | 1.45        | 1.50     |
| 17  | B     | 834 | CLA  | C3B-CAB | -2.29 | 1.43        | 1.47     |
| 17  | A     | 812 | CLA  | MG-ND   | -2.29 | 2.01        | 2.05     |
| 17  | A     | 815 | CLA  | C3B-C2B | -2.29 | 1.37        | 1.40     |
| 17  | A     | 810 | CLA  | MG-ND   | -2.29 | 2.01        | 2.05     |
| 17  | A     | 822 | CLA  | CMD-C2D | -2.28 | 1.46        | 1.50     |
| 17  | 1     | 602 | CLA  | CMC-C2C | -2.28 | 1.46        | 1.50     |
| 17  | A     | 830 | CLA  | CMC-C2C | -2.28 | 1.46        | 1.50     |
| 17  | A     | 832 | CLA  | CMD-C2D | -2.28 | 1.46        | 1.50     |
| 17  | 1     | 611 | CLA  | CMC-C2C | -2.28 | 1.46        | 1.50     |
| 17  | B     | 810 | CLA  | CMD-C2D | -2.28 | 1.46        | 1.50     |
| 17  | 4     | 608 | CLA  | C3B-C2B | -2.28 | 1.37        | 1.40     |
| 17  | 5     | 603 | CLA  | C3B-C2B | -2.28 | 1.37        | 1.40     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | 5     | 608 | CLA  | CMC-C2C | -2.28 | 1.46        | 1.50     |
| 17  | A     | 828 | CLA  | C1B-NB  | -2.27 | 1.33        | 1.35     |
| 17  | B     | 833 | CLA  | CMC-C2C | -2.27 | 1.46        | 1.50     |
| 17  | B     | 811 | CLA  | CAC-C3C | -2.27 | 1.45        | 1.51     |
| 17  | B     | 802 | CLA  | CHC-C1C | 2.27  | 1.40        | 1.35     |
| 17  | A     | 811 | CLA  | MG-ND   | -2.27 | 2.01        | 2.05     |
| 17  | 2     | 603 | CLA  | CMC-C2C | -2.27 | 1.46        | 1.50     |
| 17  | A     | 817 | CLA  | C3B-CAB | -2.27 | 1.43        | 1.47     |
| 17  | A     | 838 | CLA  | MG-ND   | -2.27 | 2.01        | 2.05     |
| 17  | B     | 821 | CLA  | MG-ND   | -2.27 | 2.01        | 2.05     |
| 17  | A     | 828 | CLA  | C3B-CAB | -2.27 | 1.43        | 1.47     |
| 17  | L     | 203 | CLA  | CMC-C2C | -2.27 | 1.46        | 1.50     |
| 25  | 5     | 614 | ZEX  | C12-C13 | 2.27  | 1.50        | 1.45     |
| 25  | 2     | 617 | ZEX  | C8-C7   | 2.27  | 1.39        | 1.33     |
| 17  | B     | 828 | CLA  | C1D-ND  | 2.27  | 1.40        | 1.37     |
| 17  | B     | 827 | CLA  | CMC-C2C | -2.27 | 1.46        | 1.50     |
| 17  | 3     | 210 | CLA  | CMD-C2D | -2.27 | 1.46        | 1.50     |
| 17  | 2     | 612 | CLA  | CMD-C2D | -2.27 | 1.46        | 1.50     |
| 17  | 5     | 611 | CLA  | CMB-C2B | -2.26 | 1.46        | 1.51     |
| 17  | B     | 815 | CLA  | MG-ND   | -2.26 | 2.01        | 2.05     |
| 17  | B     | 823 | CLA  | CMC-C2C | -2.26 | 1.46        | 1.50     |
| 17  | B     | 836 | CLA  | C3B-CAB | -2.26 | 1.43        | 1.47     |
| 17  | A     | 830 | CLA  | CMD-C2D | -2.26 | 1.46        | 1.50     |
| 17  | B     | 826 | CLA  | CMC-C2C | -2.26 | 1.46        | 1.50     |
| 17  | 2     | 605 | CLA  | C3B-C2B | -2.26 | 1.37        | 1.40     |
| 17  | A     | 817 | CLA  | C4B-CHC | -2.26 | 1.34        | 1.41     |
| 17  | B     | 818 | CLA  | C3B-C2B | -2.25 | 1.37        | 1.40     |
| 17  | B     | 811 | CLA  | C3B-CAB | -2.25 | 1.43        | 1.47     |
| 17  | B     | 832 | CLA  | C1D-ND  | 2.25  | 1.40        | 1.37     |
| 17  | 4     | 605 | CLA  | CMB-C2B | -2.25 | 1.47        | 1.51     |
| 17  | A     | 831 | CLA  | C3B-CAB | -2.25 | 1.43        | 1.47     |
| 17  | A     | 818 | CLA  | MG-ND   | -2.25 | 2.01        | 2.05     |
| 17  | B     | 826 | CLA  | MG-ND   | -2.25 | 2.01        | 2.05     |
| 17  | B     | 816 | CLA  | CMC-C2C | -2.25 | 1.46        | 1.50     |
| 17  | 2     | 604 | CLA  | C3B-C2B | -2.25 | 1.37        | 1.40     |
| 17  | L     | 204 | CLA  | MG-ND   | -2.25 | 2.01        | 2.05     |
| 17  | 2     | 606 | CLA  | C3B-C2B | -2.25 | 1.37        | 1.40     |
| 17  | 3     | 204 | CLA  | CMC-C2C | -2.25 | 1.46        | 1.50     |
| 23  | B     | 851 | DGD  | O5D-C6D | -2.25 | 1.39        | 1.43     |
| 17  | 3     | 211 | CLA  | CMC-C2C | -2.24 | 1.46        | 1.50     |
| 25  | 2     | 616 | ZEX  | C27-C28 | 2.24  | 1.39        | 1.33     |
| 17  | B     | 833 | CLA  | MG-ND   | -2.24 | 2.01        | 2.05     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | 3     | 206 | CLA  | C3B-CAB | -2.24 | 1.43        | 1.47     |
| 25  | 5     | 614 | ZEX  | C27-C28 | 2.24  | 1.39        | 1.33     |
| 17  | B     | 804 | CLA  | C1D-ND  | 2.24  | 1.40        | 1.37     |
| 17  | A     | 809 | CLA  | C3B-CAB | -2.24 | 1.43        | 1.47     |
| 17  | 3     | 203 | CLA  | CMD-C2D | -2.24 | 1.46        | 1.50     |
| 17  | A     | 829 | CLA  | CMC-C2C | -2.24 | 1.46        | 1.50     |
| 18  | A     | 840 | PQN  | C11-C12 | 2.24  | 1.53        | 1.50     |
| 17  | A     | 819 | CLA  | CMD-C2D | -2.24 | 1.46        | 1.50     |
| 17  | 1     | 608 | CLA  | C3B-CAB | -2.24 | 1.43        | 1.47     |
| 17  | B     | 807 | CLA  | MG-ND   | -2.24 | 2.01        | 2.05     |
| 17  | A     | 837 | CLA  | CMC-C2C | -2.24 | 1.46        | 1.50     |
| 17  | B     | 803 | CLA  | MG-ND   | -2.23 | 2.01        | 2.05     |
| 17  | A     | 819 | CLA  | MG-ND   | -2.23 | 2.01        | 2.05     |
| 17  | B     | 807 | CLA  | C3B-CAB | -2.23 | 1.43        | 1.47     |
| 17  | B     | 837 | CLA  | C3B-CAB | -2.23 | 1.43        | 1.47     |
| 17  | A     | 823 | CLA  | C3B-CAB | -2.23 | 1.43        | 1.47     |
| 17  | B     | 818 | CLA  | C3B-CAB | -2.23 | 1.43        | 1.47     |
| 17  | 3     | 213 | CLA  | C3B-C2B | -2.23 | 1.37        | 1.40     |
| 17  | B     | 825 | CLA  | C3B-CAB | -2.23 | 1.43        | 1.47     |
| 17  | 2     | 608 | CLA  | CMD-C2D | -2.23 | 1.46        | 1.50     |
| 17  | B     | 806 | CLA  | C1D-ND  | 2.23  | 1.40        | 1.37     |
| 17  | B     | 824 | CLA  | C3B-C2B | -2.23 | 1.37        | 1.40     |
| 17  | B     | 816 | CLA  | C3B-CAB | -2.23 | 1.43        | 1.47     |
| 17  | A     | 820 | CLA  | CMC-C2C | -2.23 | 1.46        | 1.50     |
| 17  | 1     | 604 | CLA  | CMC-C2C | -2.23 | 1.46        | 1.50     |
| 17  | 1     | 610 | CLA  | CMC-C2C | -2.23 | 1.46        | 1.50     |
| 25  | 5     | 617 | ZEX  | C12-C13 | 2.22  | 1.50        | 1.45     |
| 17  | B     | 819 | CLA  | CMC-C2C | -2.22 | 1.46        | 1.50     |
| 17  | 1     | 611 | CLA  | C3B-CAB | -2.22 | 1.43        | 1.47     |
| 17  | J     | 102 | CLA  | MG-ND   | -2.22 | 2.01        | 2.05     |
| 17  | B     | 802 | CLA  | C4B-CHC | -2.22 | 1.34        | 1.41     |
| 25  | 2     | 617 | ZEX  | C24-C25 | 2.22  | 1.52        | 1.50     |
| 24  | J     | 106 | 3XQ  | O20-C21 | -2.22 | 1.40        | 1.45     |
| 25  | 5     | 616 | ZEX  | C27-C28 | 2.22  | 1.39        | 1.33     |
| 17  | 2     | 609 | CLA  | C3B-C2B | -2.22 | 1.37        | 1.40     |
| 17  | A     | 828 | CLA  | CHC-C1C | 2.22  | 1.40        | 1.35     |
| 17  | A     | 833 | CLA  | CMC-C2C | -2.22 | 1.46        | 1.50     |
| 17  | A     | 808 | CLA  | MG-ND   | -2.22 | 2.01        | 2.05     |
| 17  | A     | 818 | CLA  | C3B-C2B | -2.22 | 1.37        | 1.40     |
| 17  | B     | 836 | CLA  | MG-ND   | -2.21 | 2.01        | 2.05     |
| 17  | K     | 103 | CLA  | CMD-C2D | -2.21 | 1.46        | 1.50     |
| 17  | A     | 824 | CLA  | CMD-C2D | -2.21 | 1.46        | 1.50     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | 2     | 602 | CLA  | C3B-CAB | -2.21 | 1.43        | 1.47     |
| 17  | A     | 808 | CLA  | CMD-C2D | -2.21 | 1.46        | 1.50     |
| 17  | B     | 821 | CLA  | CAC-C3C | -2.21 | 1.45        | 1.51     |
| 17  | B     | 837 | CLA  | MG-ND   | -2.21 | 2.01        | 2.05     |
| 17  | 2     | 609 | CLA  | CMD-C2D | -2.21 | 1.46        | 1.50     |
| 17  | A     | 825 | CLA  | C3B-CAB | -2.21 | 1.43        | 1.47     |
| 17  | B     | 810 | CLA  | C3B-CAB | -2.21 | 1.43        | 1.47     |
| 17  | A     | 823 | CLA  | CMC-C2C | -2.21 | 1.46        | 1.50     |
| 17  | 3     | 203 | CLA  | C3B-CAB | -2.21 | 1.43        | 1.47     |
| 17  | B     | 808 | CLA  | CMD-C2D | -2.21 | 1.46        | 1.50     |
| 17  | A     | 810 | CLA  | CMC-C2C | -2.21 | 1.46        | 1.50     |
| 17  | 3     | 205 | CLA  | CMD-C2D | -2.21 | 1.46        | 1.50     |
| 17  | J     | 103 | CLA  | CMC-C2C | -2.21 | 1.46        | 1.50     |
| 17  | A     | 832 | CLA  | C4B-CHC | -2.21 | 1.34        | 1.41     |
| 17  | B     | 808 | CLA  | CMC-C2C | -2.21 | 1.46        | 1.50     |
| 17  | 2     | 611 | CLA  | CMD-C2D | -2.20 | 1.46        | 1.50     |
| 17  | 2     | 601 | CLA  | C3B-C2B | -2.20 | 1.37        | 1.40     |
| 17  | 1     | 608 | CLA  | MG-ND   | -2.20 | 2.01        | 2.05     |
| 25  | 2     | 615 | ZEX  | C1-C6   | 2.20  | 1.56        | 1.53     |
| 17  | A     | 848 | CLA  | C4B-CHC | -2.20 | 1.34        | 1.41     |
| 17  | 5     | 605 | CLA  | CMD-C2D | -2.20 | 1.46        | 1.50     |
| 17  | 2     | 606 | CLA  | C3B-CAB | -2.20 | 1.43        | 1.47     |
| 25  | 3     | 218 | ZEX  | C27-C28 | 2.20  | 1.39        | 1.33     |
| 17  | A     | 825 | CLA  | C3B-C2B | -2.20 | 1.37        | 1.40     |
| 17  | B     | 812 | CLA  | CMC-C2C | -2.20 | 1.46        | 1.50     |
| 17  | 2     | 601 | CLA  | CMC-C2C | -2.20 | 1.46        | 1.50     |
| 17  | 3     | 208 | CLA  | CMD-C2D | -2.20 | 1.46        | 1.50     |
| 17  | B     | 821 | CLA  | CMC-C2C | -2.20 | 1.46        | 1.50     |
| 17  | B     | 843 | CLA  | MG-ND   | -2.20 | 2.01        | 2.05     |
| 17  | B     | 837 | CLA  | CMD-C2D | -2.20 | 1.46        | 1.50     |
| 17  | 4     | 602 | CLA  | CMC-C2C | -2.19 | 1.46        | 1.50     |
| 17  | B     | 828 | CLA  | CMC-C2C | -2.19 | 1.46        | 1.50     |
| 17  | 1     | 612 | CLA  | MG-ND   | -2.19 | 2.01        | 2.05     |
| 17  | J     | 101 | CLA  | C3B-CAB | -2.19 | 1.43        | 1.47     |
| 17  | 2     | 606 | CLA  | CMD-C2D | -2.19 | 1.46        | 1.50     |
| 17  | A     | 821 | CLA  | CMC-C2C | -2.19 | 1.46        | 1.50     |
| 17  | J     | 103 | CLA  | CMD-C2D | -2.19 | 1.46        | 1.50     |
| 17  | A     | 813 | CLA  | MG-ND   | -2.19 | 2.01        | 2.05     |
| 17  | 4     | 602 | CLA  | CMD-C2D | -2.19 | 1.46        | 1.50     |
| 17  | 3     | 205 | CLA  | MG-ND   | -2.19 | 2.01        | 2.05     |
| 17  | B     | 812 | CLA  | C4B-CHC | -2.19 | 1.34        | 1.41     |
| 17  | B     | 835 | CLA  | CMC-C2C | -2.19 | 1.46        | 1.50     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | B     | 827 | CLA  | C3B-C2B | -2.19 | 1.37        | 1.40     |
| 16  | A     | 801 | CL0  | C4B-CHC | -2.18 | 1.34        | 1.41     |
| 17  | 3     | 212 | CLA  | CMC-C2C | -2.18 | 1.46        | 1.50     |
| 17  | A     | 808 | CLA  | C3B-CAB | -2.18 | 1.43        | 1.47     |
| 25  | 2     | 614 | ZEX  | C12-C13 | 2.18  | 1.50        | 1.45     |
| 17  | A     | 821 | CLA  | MG-ND   | -2.18 | 2.01        | 2.05     |
| 17  | A     | 839 | CLA  | C3B-CAB | -2.18 | 1.43        | 1.47     |
| 17  | B     | 840 | CLA  | CMC-C2C | -2.18 | 1.46        | 1.50     |
| 17  | 3     | 209 | CLA  | CMC-C2C | -2.18 | 1.46        | 1.50     |
| 17  | A     | 820 | CLA  | C3B-C2B | -2.18 | 1.37        | 1.40     |
| 17  | A     | 816 | CLA  | CMC-C2C | -2.18 | 1.46        | 1.50     |
| 17  | 4     | 608 | CLA  | CMD-C2D | -2.18 | 1.46        | 1.50     |
| 17  | 3     | 202 | CLA  | CMD-C2D | -2.17 | 1.46        | 1.50     |
| 17  | A     | 818 | CLA  | C3B-CAB | -2.17 | 1.43        | 1.47     |
| 25  | 1     | 614 | ZEX  | C12-C13 | 2.17  | 1.50        | 1.45     |
| 16  | A     | 801 | CL0  | C3C-C2C | -2.17 | 1.32        | 1.36     |
| 17  | B     | 814 | CLA  | C4B-CHC | -2.17 | 1.35        | 1.41     |
| 25  | 2     | 615 | ZEX  | C12-C13 | 2.17  | 1.50        | 1.45     |
| 16  | A     | 801 | CL0  | C3D-C2D | -2.17 | 1.33        | 1.39     |
| 17  | 2     | 601 | CLA  | C3B-CAB | -2.17 | 1.43        | 1.47     |
| 17  | 5     | 609 | CLA  | CMD-C2D | -2.17 | 1.46        | 1.50     |
| 17  | A     | 848 | CLA  | C3B-C2B | -2.17 | 1.37        | 1.40     |
| 17  | 2     | 610 | CLA  | C3B-C2B | -2.17 | 1.37        | 1.40     |
| 17  | 2     | 604 | CLA  | C3B-CAB | -2.17 | 1.43        | 1.47     |
| 17  | A     | 816 | CLA  | C4B-CHC | -2.17 | 1.35        | 1.41     |
| 17  | K     | 102 | CLA  | CMC-C2C | -2.16 | 1.46        | 1.50     |
| 17  | 1     | 601 | CLA  | C3B-C2B | -2.16 | 1.37        | 1.40     |
| 17  | B     | 824 | CLA  | CMD-C2D | -2.16 | 1.46        | 1.50     |
| 16  | A     | 801 | CL0  | C1B-CHB | -2.16 | 1.35        | 1.41     |
| 17  | B     | 842 | CLA  | C3B-CAB | -2.16 | 1.43        | 1.47     |
| 17  | 4     | 606 | CLA  | CMC-C2C | -2.16 | 1.46        | 1.50     |
| 25  | 3     | 215 | ZEX  | C1-C6   | 2.16  | 1.56        | 1.53     |
| 17  | 4     | 608 | CLA  | CMC-C2C | -2.16 | 1.46        | 1.50     |
| 17  | 3     | 207 | CLA  | CMD-C2D | -2.16 | 1.46        | 1.50     |
| 17  | B     | 821 | CLA  | C3B-C2B | -2.16 | 1.37        | 1.40     |
| 17  | A     | 834 | CLA  | CMC-C2C | -2.16 | 1.46        | 1.50     |
| 17  | B     | 819 | CLA  | CMD-C2D | -2.16 | 1.46        | 1.50     |
| 17  | 2     | 607 | CLA  | C3B-C2B | -2.16 | 1.37        | 1.40     |
| 20  | K     | 101 | BCR  | C33-C5  | -2.16 | 1.47        | 1.50     |
| 17  | L     | 203 | CLA  | C3B-C2B | -2.16 | 1.37        | 1.40     |
| 17  | B     | 824 | CLA  | MG-ND   | -2.15 | 2.01        | 2.05     |
| 17  | L     | 202 | CLA  | C3B-CAB | -2.15 | 1.43        | 1.47     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | 4     | 611 | CLA  | CMD-C2D | -2.15 | 1.46        | 1.50     |
| 17  | 2     | 612 | CLA  | MG-ND   | -2.15 | 2.01        | 2.05     |
| 17  | 5     | 604 | CLA  | MG-ND   | -2.15 | 2.01        | 2.05     |
| 17  | B     | 806 | CLA  | CMA-C3A | -2.15 | 1.48        | 1.53     |
| 17  | A     | 824 | CLA  | C1D-ND  | 2.15  | 1.40        | 1.37     |
| 20  | A     | 843 | BCR  | C33-C5  | -2.15 | 1.47        | 1.50     |
| 17  | B     | 811 | CLA  | C4B-CHC | -2.15 | 1.35        | 1.41     |
| 17  | 1     | 611 | CLA  | C3B-C2B | -2.15 | 1.37        | 1.40     |
| 17  | 2     | 607 | CLA  | CMC-C2C | -2.15 | 1.46        | 1.50     |
| 17  | A     | 813 | CLA  | C3B-CAB | -2.15 | 1.43        | 1.47     |
| 17  | 1     | 607 | CLA  | C3B-C2B | -2.15 | 1.37        | 1.40     |
| 17  | 3     | 212 | CLA  | CMD-C2D | -2.15 | 1.46        | 1.50     |
| 17  | B     | 843 | CLA  | CMD-C2D | -2.14 | 1.46        | 1.50     |
| 25  | 2     | 617 | ZEX  | C1-C6   | 2.14  | 1.56        | 1.53     |
| 17  | B     | 832 | CLA  | C3B-CAB | -2.14 | 1.43        | 1.47     |
| 17  | J     | 103 | CLA  | MG-ND   | -2.14 | 2.01        | 2.05     |
| 17  | 4     | 603 | CLA  | CMD-C2D | -2.14 | 1.46        | 1.50     |
| 17  | A     | 803 | CLA  | CAC-C3C | -2.14 | 1.45        | 1.51     |
| 17  | A     | 802 | CLA  | MG-ND   | -2.14 | 2.01        | 2.05     |
| 17  | 1     | 607 | CLA  | MG-ND   | -2.14 | 2.01        | 2.05     |
| 17  | F     | 302 | CLA  | CMC-C2C | -2.14 | 1.46        | 1.50     |
| 17  | 1     | 601 | CLA  | MG-ND   | -2.14 | 2.01        | 2.05     |
| 17  | 3     | 208 | CLA  | MG-ND   | -2.14 | 2.01        | 2.05     |
| 17  | 3     | 207 | CLA  | C3B-C2B | -2.13 | 1.37        | 1.40     |
| 17  | A     | 810 | CLA  | C3B-CAB | -2.13 | 1.43        | 1.47     |
| 17  | 2     | 603 | CLA  | MG-ND   | -2.13 | 2.01        | 2.05     |
| 17  | 1     | 603 | CLA  | CMC-C2C | -2.13 | 1.46        | 1.50     |
| 17  | 1     | 612 | CLA  | CMC-C2C | -2.13 | 1.46        | 1.50     |
| 17  | A     | 839 | CLA  | C4B-CHC | -2.13 | 1.35        | 1.41     |
| 17  | 2     | 607 | CLA  | MG-ND   | -2.13 | 2.01        | 2.05     |
| 17  | 2     | 604 | CLA  | MG-ND   | -2.13 | 2.01        | 2.05     |
| 25  | 2     | 615 | ZEX  | C32-C33 | 2.13  | 1.50        | 1.45     |
| 17  | A     | 834 | CLA  | CMD-C2D | -2.13 | 1.46        | 1.50     |
| 17  | B     | 822 | CLA  | CMD-C2D | -2.13 | 1.46        | 1.50     |
| 17  | 2     | 606 | CLA  | MG-ND   | -2.13 | 2.01        | 2.05     |
| 17  | 5     | 608 | CLA  | C3B-CAB | -2.13 | 1.43        | 1.47     |
| 17  | 3     | 209 | CLA  | MG-ND   | -2.13 | 2.01        | 2.05     |
| 17  | B     | 824 | CLA  | C3B-CAB | -2.13 | 1.43        | 1.47     |
| 20  | B     | 847 | BCR  | C38-C26 | -2.13 | 1.47        | 1.50     |
| 17  | 5     | 609 | CLA  | C1D-C2D | 2.12  | 1.49        | 1.45     |
| 17  | A     | 803 | CLA  | C4B-CHC | -2.12 | 1.35        | 1.41     |
| 17  | 5     | 610 | CLA  | CMC-C2C | -2.12 | 1.46        | 1.50     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | 3     | 211 | CLA  | MG-ND   | -2.12 | 2.01        | 2.05     |
| 17  | 1     | 601 | CLA  | C3B-CAB | -2.12 | 1.43        | 1.47     |
| 17  | B     | 837 | CLA  | CMC-C2C | -2.12 | 1.46        | 1.50     |
| 25  | 5     | 614 | ZEX  | C24-C25 | 2.12  | 1.52        | 1.50     |
| 17  | 1     | 609 | CLA  | MG-ND   | -2.12 | 2.01        | 2.05     |
| 25  | 2     | 617 | ZEX  | C12-C13 | 2.12  | 1.50        | 1.45     |
| 17  | 5     | 612 | CLA  | CMD-C2D | -2.12 | 1.46        | 1.50     |
| 17  | 1     | 609 | CLA  | CMD-C2D | -2.12 | 1.46        | 1.50     |
| 17  | L     | 202 | CLA  | MG-ND   | -2.12 | 2.01        | 2.05     |
| 17  | J     | 101 | CLA  | C3B-C2B | -2.12 | 1.37        | 1.40     |
| 17  | A     | 830 | CLA  | C3B-CAB | -2.11 | 1.43        | 1.47     |
| 17  | 3     | 210 | CLA  | MG-ND   | -2.11 | 2.01        | 2.05     |
| 17  | 3     | 209 | CLA  | CMD-C2D | -2.11 | 1.46        | 1.50     |
| 17  | 2     | 610 | CLA  | CMD-C2D | -2.11 | 1.46        | 1.50     |
| 17  | B     | 842 | CLA  | C4B-CHC | -2.11 | 1.35        | 1.41     |
| 17  | B     | 807 | CLA  | C3B-C2B | -2.11 | 1.37        | 1.40     |
| 17  | A     | 809 | CLA  | MG-ND   | -2.11 | 2.01        | 2.05     |
| 20  | A     | 845 | BCR  | C33-C5  | -2.11 | 1.47        | 1.50     |
| 17  | 4     | 607 | CLA  | CMD-C2D | -2.11 | 1.46        | 1.50     |
| 25  | 1     | 615 | ZEX  | C12-C13 | 2.11  | 1.50        | 1.45     |
| 25  | 5     | 617 | ZEX  | C27-C28 | 2.11  | 1.39        | 1.33     |
| 17  | L     | 202 | CLA  | CMD-C2D | -2.11 | 1.46        | 1.50     |
| 17  | A     | 835 | CLA  | CMC-C2C | -2.10 | 1.46        | 1.50     |
| 17  | 3     | 205 | CLA  | C3B-CAB | -2.10 | 1.43        | 1.47     |
| 17  | 1     | 608 | CLA  | CMD-C2D | -2.10 | 1.46        | 1.50     |
| 17  | B     | 811 | CLA  | MG-ND   | -2.10 | 2.01        | 2.05     |
| 17  | O     | 205 | CLA  | MG-ND   | -2.10 | 2.01        | 2.05     |
| 17  | F     | 303 | CLA  | CMC-C2C | -2.10 | 1.46        | 1.50     |
| 17  | 2     | 605 | CLA  | C3B-CAB | -2.10 | 1.43        | 1.47     |
| 17  | A     | 820 | CLA  | C3B-CAB | -2.10 | 1.43        | 1.47     |
| 17  | 2     | 611 | CLA  | MG-ND   | -2.10 | 2.01        | 2.05     |
| 17  | A     | 808 | CLA  | CMC-C2C | -2.10 | 1.46        | 1.50     |
| 17  | 2     | 607 | CLA  | C3B-CAB | -2.10 | 1.43        | 1.47     |
| 17  | 2     | 603 | CLA  | C3B-CAB | -2.09 | 1.43        | 1.47     |
| 17  | 5     | 603 | CLA  | MG-ND   | -2.09 | 2.01        | 2.05     |
| 17  | 2     | 610 | CLA  | C3B-CAB | -2.09 | 1.43        | 1.47     |
| 20  | B     | 805 | BCR  | C38-C26 | -2.09 | 1.47        | 1.50     |
| 17  | B     | 825 | CLA  | CMC-C2C | -2.09 | 1.46        | 1.50     |
| 20  | J     | 105 | BCR  | C33-C5  | -2.09 | 1.47        | 1.50     |
| 17  | A     | 819 | CLA  | C3B-CAB | -2.09 | 1.43        | 1.47     |
| 17  | 2     | 604 | CLA  | CMD-C2D | -2.09 | 1.46        | 1.50     |
| 17  | A     | 814 | CLA  | CMD-C2D | -2.08 | 1.46        | 1.50     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | B     | 819 | CLA  | MG-ND   | -2.08 | 2.01        | 2.05     |
| 17  | A     | 836 | CLA  | C4B-CHC | -2.08 | 1.35        | 1.41     |
| 17  | A     | 824 | CLA  | CMC-C2C | -2.08 | 1.46        | 1.50     |
| 20  | B     | 850 | BCR  | C38-C26 | -2.08 | 1.47        | 1.50     |
| 17  | O     | 205 | CLA  | C3B-CAB | -2.08 | 1.43        | 1.47     |
| 17  | O     | 201 | CLA  | MG-ND   | -2.08 | 2.01        | 2.05     |
| 17  | F     | 303 | CLA  | CMD-C2D | -2.08 | 1.46        | 1.50     |
| 17  | 3     | 207 | CLA  | CMC-C2C | -2.08 | 1.46        | 1.50     |
| 17  | 2     | 613 | CLA  | CMC-C2C | -2.08 | 1.46        | 1.50     |
| 17  | A     | 833 | CLA  | C3B-CAB | -2.08 | 1.43        | 1.47     |
| 17  | A     | 818 | CLA  | C4B-CHC | -2.08 | 1.35        | 1.41     |
| 17  | B     | 815 | CLA  | C3B-C2B | -2.08 | 1.37        | 1.40     |
| 17  | 4     | 608 | CLA  | C3B-CAB | -2.08 | 1.43        | 1.47     |
| 17  | 1     | 606 | CLA  | CMC-C2C | -2.08 | 1.46        | 1.50     |
| 17  | B     | 823 | CLA  | C3B-C2B | -2.08 | 1.37        | 1.40     |
| 17  | 2     | 612 | CLA  | C3B-CAB | -2.08 | 1.43        | 1.47     |
| 17  | 1     | 602 | CLA  | CAC-C3C | -2.07 | 1.45        | 1.51     |
| 17  | 2     | 610 | CLA  | MG-ND   | -2.07 | 2.01        | 2.05     |
| 17  | B     | 835 | CLA  | MG-ND   | -2.07 | 2.01        | 2.05     |
| 17  | O     | 203 | CLA  | CMD-C2D | -2.07 | 1.46        | 1.50     |
| 17  | A     | 807 | CLA  | CAC-C3C | -2.07 | 1.45        | 1.51     |
| 17  | J     | 102 | CLA  | C4B-CHC | -2.07 | 1.35        | 1.41     |
| 17  | K     | 102 | CLA  | C3B-C2B | -2.07 | 1.37        | 1.40     |
| 25  | 1     | 615 | ZEX  | C1-C6   | 2.07  | 1.56        | 1.53     |
| 17  | B     | 824 | CLA  | CMC-C2C | -2.06 | 1.46        | 1.50     |
| 17  | 1     | 601 | CLA  | CMD-C2D | -2.06 | 1.46        | 1.50     |
| 17  | B     | 817 | CLA  | C3B-CAB | -2.06 | 1.43        | 1.47     |
| 17  | 4     | 601 | CLA  | C3B-C2B | -2.06 | 1.37        | 1.40     |
| 17  | 4     | 603 | CLA  | CMC-C2C | -2.06 | 1.46        | 1.50     |
| 17  | B     | 812 | CLA  | C3B-CAB | -2.06 | 1.43        | 1.47     |
| 17  | 2     | 612 | CLA  | C3B-C2B | -2.06 | 1.37        | 1.40     |
| 17  | A     | 804 | CLA  | C3B-CAB | -2.06 | 1.43        | 1.47     |
| 17  | 5     | 607 | CLA  | CMD-C2D | -2.06 | 1.46        | 1.50     |
| 25  | 3     | 217 | ZEX  | C27-C28 | 2.05  | 1.39        | 1.33     |
| 17  | A     | 848 | CLA  | C1D-ND  | 2.05  | 1.40        | 1.37     |
| 17  | B     | 827 | CLA  | C3B-CAB | -2.05 | 1.43        | 1.47     |
| 17  | B     | 806 | CLA  | C4B-CHC | -2.05 | 1.35        | 1.41     |
| 17  | 4     | 604 | CLA  | CMD-C2D | -2.05 | 1.46        | 1.50     |
| 17  | A     | 806 | CLA  | C4B-CHC | -2.05 | 1.35        | 1.41     |
| 17  | 1     | 612 | CLA  | C4B-CHC | -2.05 | 1.35        | 1.41     |
| 17  | 3     | 211 | CLA  | CMD-C2D | -2.05 | 1.46        | 1.50     |
| 17  | L     | 204 | CLA  | CMC-C2C | -2.05 | 1.46        | 1.50     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | 5     | 601 | CLA  | C3B-CAB | -2.05 | 1.43        | 1.47     |
| 17  | L     | 202 | CLA  | CMC-C2C | -2.05 | 1.46        | 1.50     |
| 17  | 5     | 610 | CLA  | CMD-C2D | -2.05 | 1.46        | 1.50     |
| 17  | A     | 807 | CLA  | C4B-CHC | -2.05 | 1.35        | 1.41     |
| 17  | 4     | 607 | CLA  | CMC-C2C | -2.05 | 1.46        | 1.50     |
| 17  | A     | 827 | CLA  | C1D-ND  | 2.05  | 1.40        | 1.37     |
| 17  | 5     | 608 | CLA  | CMD-C2D | -2.05 | 1.46        | 1.50     |
| 17  | 2     | 605 | CLA  | CMC-C2C | -2.05 | 1.46        | 1.50     |
| 25  | 3     | 201 | ZEX  | C1-C6   | 2.05  | 1.56        | 1.53     |
| 17  | A     | 819 | CLA  | CMA-C3A | -2.05 | 1.48        | 1.53     |
| 17  | B     | 821 | CLA  | C4B-CHC | -2.04 | 1.35        | 1.41     |
| 17  | 3     | 213 | CLA  | MG-ND   | -2.04 | 2.01        | 2.05     |
| 17  | B     | 835 | CLA  | C3B-CAB | -2.04 | 1.43        | 1.47     |
| 17  | 3     | 203 | CLA  | MG-ND   | -2.04 | 2.01        | 2.05     |
| 17  | 4     | 603 | CLA  | MG-ND   | -2.04 | 2.01        | 2.05     |
| 17  | A     | 811 | CLA  | C4B-CHC | -2.04 | 1.35        | 1.41     |
| 25  | 1     | 617 | ZEX  | C12-C13 | 2.04  | 1.50        | 1.45     |
| 17  | 2     | 613 | CLA  | C3B-CAB | -2.04 | 1.43        | 1.47     |
| 17  | 2     | 613 | CLA  | MG-ND   | -2.04 | 2.01        | 2.05     |
| 17  | B     | 823 | CLA  | C3B-CAB | -2.04 | 1.43        | 1.47     |
| 17  | F     | 303 | CLA  | C3B-CAB | -2.03 | 1.43        | 1.47     |
| 17  | B     | 816 | CLA  | C3B-C2B | -2.03 | 1.37        | 1.40     |
| 17  | B     | 813 | CLA  | CAC-C3C | -2.03 | 1.45        | 1.51     |
| 17  | B     | 825 | CLA  | C4B-CHC | -2.03 | 1.35        | 1.41     |
| 17  | A     | 820 | CLA  | CAC-C3C | -2.03 | 1.45        | 1.51     |
| 17  | B     | 843 | CLA  | C3B-CAB | -2.03 | 1.43        | 1.47     |
| 25  | 2     | 614 | ZEX  | C24-C25 | 2.03  | 1.52        | 1.50     |
| 20  | L     | 201 | BCR  | C33-C5  | -2.03 | 1.47        | 1.50     |
| 17  | 4     | 611 | CLA  | C3B-C2B | -2.03 | 1.37        | 1.40     |
| 17  | K     | 103 | CLA  | C3B-CAB | -2.03 | 1.43        | 1.47     |
| 17  | 3     | 202 | CLA  | MG-ND   | -2.03 | 2.01        | 2.05     |
| 17  | A     | 822 | CLA  | CAC-C3C | -2.03 | 1.45        | 1.51     |
| 17  | B     | 839 | CLA  | CAC-C3C | -2.03 | 1.45        | 1.51     |
| 17  | A     | 812 | CLA  | C3B-CAB | -2.03 | 1.43        | 1.47     |
| 17  | 4     | 602 | CLA  | MG-ND   | -2.03 | 2.01        | 2.05     |
| 17  | B     | 817 | CLA  | C3B-C2B | -2.03 | 1.37        | 1.40     |
| 17  | 4     | 606 | CLA  | MG-ND   | -2.03 | 2.01        | 2.05     |
| 17  | A     | 824 | CLA  | CAC-C3C | -2.02 | 1.45        | 1.51     |
| 17  | 2     | 609 | CLA  | C3B-CAB | -2.02 | 1.43        | 1.47     |
| 17  | A     | 839 | CLA  | CMA-C3A | -2.02 | 1.48        | 1.53     |
| 17  | B     | 809 | CLA  | C4B-CHC | -2.02 | 1.35        | 1.41     |
| 17  | 1     | 602 | CLA  | C4B-CHC | -2.02 | 1.35        | 1.41     |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 17  | O     | 204 | CLA  | CMC-C2C | -2.02 | 1.46        | 1.50     |
| 17  | 2     | 613 | CLA  | C3B-C2B | -2.02 | 1.37        | 1.40     |
| 25  | 5     | 615 | ZEX  | C27-C28 | 2.02  | 1.39        | 1.33     |
| 17  | 1     | 609 | CLA  | CMC-C2C | -2.02 | 1.46        | 1.50     |
| 20  | B     | 849 | BCR  | C38-C26 | -2.02 | 1.47        | 1.50     |
| 20  | O     | 202 | BCR  | C38-C26 | -2.01 | 1.47        | 1.50     |
| 17  | 5     | 608 | CLA  | MG-ND   | -2.01 | 2.01        | 2.05     |
| 17  | B     | 801 | CLA  | C3B-CAB | -2.01 | 1.43        | 1.47     |
| 17  | B     | 840 | CLA  | C3B-CAB | -2.01 | 1.43        | 1.47     |
| 17  | A     | 809 | CLA  | CAC-C3C | -2.01 | 1.45        | 1.51     |
| 17  | 3     | 211 | CLA  | C3B-C2B | -2.01 | 1.37        | 1.40     |
| 17  | O     | 204 | CLA  | CMD-C2D | -2.01 | 1.46        | 1.50     |
| 17  | 1     | 605 | CLA  | CMC-C2C | -2.01 | 1.46        | 1.50     |
| 17  | K     | 102 | CLA  | C3B-CAB | -2.01 | 1.43        | 1.47     |
| 17  | 5     | 602 | CLA  | C3B-CAB | -2.01 | 1.43        | 1.47     |
| 17  | 2     | 609 | CLA  | MG-ND   | -2.01 | 2.01        | 2.05     |
| 17  | 4     | 610 | CLA  | CMD-C2D | -2.01 | 1.46        | 1.50     |
| 17  | B     | 827 | CLA  | C4B-CHC | -2.01 | 1.35        | 1.41     |
| 17  | 4     | 602 | CLA  | CMA-C3A | -2.01 | 1.48        | 1.53     |
| 17  | B     | 812 | CLA  | CAC-C3C | -2.01 | 1.46        | 1.51     |
| 17  | A     | 834 | CLA  | MG-ND   | -2.01 | 2.01        | 2.05     |
| 17  | B     | 822 | CLA  | C4B-CHC | -2.00 | 1.35        | 1.41     |
| 17  | B     | 819 | CLA  | C3B-CAB | -2.00 | 1.43        | 1.47     |
| 17  | A     | 808 | CLA  | C4B-CHC | -2.00 | 1.35        | 1.41     |
| 25  | 4     | 613 | ZEX  | C27-C28 | 2.00  | 1.39        | 1.33     |
| 17  | B     | 830 | CLA  | C4B-CHC | -2.00 | 1.35        | 1.41     |
| 17  | 3     | 213 | CLA  | CMC-C2C | -2.00 | 1.46        | 1.50     |

All (2576) bond angle outliers are listed below:

| Mol | Chain | Res | Type | Atoms       | Z      | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|--------|-------------|----------|
| 25  | 1     | 614 | ZEX  | C31-C30-C29 | -16.44 | 103.84      | 127.31   |
| 25  | 1     | 614 | ZEX  | C39-C29-C28 | -14.08 | 95.90       | 118.08   |
| 25  | 5     | 617 | ZEX  | C15-C14-C13 | -13.48 | 108.07      | 127.31   |
| 25  | 3     | 201 | ZEX  | C31-C30-C29 | -13.33 | 108.28      | 127.31   |
| 16  | A     | 801 | CL0  | C4A-NA-C1A  | 13.29  | 112.68      | 106.71   |
| 25  | 1     | 614 | ZEX  | C28-C27-C26 | -13.08 | 104.74      | 127.09   |
| 25  | 4     | 616 | ZEX  | C18-C5-C6   | -12.92 | 110.02      | 124.53   |
| 25  | 4     | 616 | ZEX  | C11-C10-C9  | -12.84 | 108.99      | 127.31   |
| 25  | 1     | 615 | ZEX  | C18-C5-C6   | -12.72 | 110.25      | 124.53   |
| 25  | 1     | 613 | ZEX  | C18-C5-C6   | -12.70 | 110.27      | 124.53   |
| 25  | 1     | 614 | ZEX  | C11-C10-C9  | -12.67 | 109.22      | 127.31   |

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| Mol | Chain | Res | Type | Atoms       | Z      | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|--------|-------------|----------|
| 25  | 5     | 617 | ZEX  | C18-C5-C6   | -12.55 | 110.44      | 124.53   |
| 25  | 2     | 616 | ZEX  | C35-C34-C33 | -12.53 | 109.43      | 127.31   |
| 25  | 5     | 617 | ZEX  | C11-C10-C9  | -12.48 | 109.50      | 127.31   |
| 25  | 4     | 615 | ZEX  | C11-C10-C9  | -12.47 | 109.51      | 127.31   |
| 25  | 3     | 216 | ZEX  | C18-C5-C6   | -12.44 | 110.56      | 124.53   |
| 25  | 1     | 613 | ZEX  | C31-C30-C29 | -12.32 | 109.72      | 127.31   |
| 25  | 4     | 614 | ZEX  | C18-C5-C6   | -12.29 | 110.73      | 124.53   |
| 25  | 2     | 615 | ZEX  | C31-C30-C29 | -12.28 | 109.78      | 127.31   |
| 25  | 2     | 616 | ZEX  | C18-C5-C6   | -12.27 | 110.75      | 124.53   |
| 25  | 4     | 617 | ZEX  | C18-C5-C6   | -12.20 | 110.83      | 124.53   |
| 25  | 1     | 615 | ZEX  | C15-C14-C13 | -12.15 | 109.97      | 127.31   |
| 25  | 5     | 615 | ZEX  | C18-C5-C6   | -12.13 | 110.91      | 124.53   |
| 25  | 5     | 616 | ZEX  | C18-C5-C6   | -12.08 | 110.97      | 124.53   |
| 25  | 2     | 614 | ZEX  | C11-C10-C9  | -12.03 | 110.14      | 127.31   |
| 25  | 1     | 617 | ZEX  | C31-C30-C29 | -12.02 | 110.16      | 127.31   |
| 25  | 4     | 612 | ZEX  | C35-C34-C33 | -11.89 | 110.34      | 127.31   |
| 25  | 3     | 201 | ZEX  | C18-C5-C6   | -11.85 | 111.22      | 124.53   |
| 25  | 4     | 612 | ZEX  | C18-C5-C6   | -11.81 | 111.27      | 124.53   |
| 25  | 4     | 613 | ZEX  | C11-C10-C9  | -11.81 | 110.46      | 127.31   |
| 25  | 1     | 617 | ZEX  | C18-C5-C6   | -11.78 | 111.31      | 124.53   |
| 25  | 4     | 613 | ZEX  | C18-C5-C6   | -11.77 | 111.31      | 124.53   |
| 25  | 1     | 616 | ZEX  | C31-C30-C29 | -11.72 | 110.58      | 127.31   |
| 25  | 4     | 613 | ZEX  | C31-C30-C29 | -11.69 | 110.62      | 127.31   |
| 25  | 5     | 617 | ZEX  | C20-C13-C14 | -11.66 | 106.58      | 122.92   |
| 25  | 3     | 214 | ZEX  | C18-C5-C6   | -11.66 | 111.43      | 124.53   |
| 25  | 3     | 215 | ZEX  | C18-C5-C6   | -11.65 | 111.44      | 124.53   |
| 25  | 4     | 612 | ZEX  | C31-C30-C29 | -11.59 | 110.77      | 127.31   |
| 25  | 2     | 617 | ZEX  | C18-C5-C6   | -11.52 | 111.59      | 124.53   |
| 25  | 2     | 615 | ZEX  | C18-C5-C6   | -11.51 | 111.60      | 124.53   |
| 25  | 3     | 214 | ZEX  | C11-C10-C9  | -11.47 | 110.94      | 127.31   |
| 25  | 1     | 616 | ZEX  | C18-C5-C6   | -11.44 | 111.68      | 124.53   |
| 25  | 4     | 615 | ZEX  | C18-C5-C6   | -11.40 | 111.73      | 124.53   |
| 25  | 5     | 614 | ZEX  | C35-C34-C33 | -11.38 | 111.06      | 127.31   |
| 25  | 2     | 614 | ZEX  | C18-C5-C6   | -11.37 | 111.76      | 124.53   |
| 25  | 3     | 201 | ZEX  | C35-C34-C33 | -11.32 | 111.16      | 127.31   |
| 25  | 1     | 614 | ZEX  | C39-C29-C30 | -11.32 | 107.07      | 122.92   |
| 25  | 1     | 616 | ZEX  | C11-C10-C9  | -11.30 | 111.18      | 127.31   |
| 25  | 3     | 214 | ZEX  | C35-C34-C33 | -11.30 | 111.18      | 127.31   |
| 25  | 5     | 614 | ZEX  | C18-C5-C6   | -11.30 | 111.84      | 124.53   |
| 25  | 1     | 614 | ZEX  | C18-C5-C6   | -11.28 | 111.86      | 124.53   |
| 25  | 3     | 217 | ZEX  | C18-C5-C6   | -11.24 | 111.91      | 124.53   |
| 25  | 5     | 614 | ZEX  | C15-C14-C13 | -11.20 | 111.32      | 127.31   |

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| Mol | Chain | Res | Type | Atoms       | Z      | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|--------|-------------|----------|
| 25  | 2     | 615 | ZEX  | C15-C14-C13 | -11.13 | 111.43      | 127.31   |
| 25  | 3     | 214 | ZEX  | C20-C13-C14 | -11.12 | 107.34      | 122.92   |
| 25  | 3     | 214 | ZEX  | C31-C30-C29 | -11.07 | 111.51      | 127.31   |
| 25  | 1     | 617 | ZEX  | C11-C10-C9  | -11.04 | 111.56      | 127.31   |
| 25  | 3     | 215 | ZEX  | C20-C13-C14 | -11.01 | 107.49      | 122.92   |
| 25  | 3     | 215 | ZEX  | C31-C30-C29 | -10.94 | 111.70      | 127.31   |
| 25  | 5     | 617 | ZEX  | C19-C9-C10  | -10.82 | 107.77      | 122.92   |
| 25  | 1     | 615 | ZEX  | C11-C10-C9  | -10.80 | 111.90      | 127.31   |
| 25  | 3     | 215 | ZEX  | C15-C14-C13 | -10.79 | 111.90      | 127.31   |
| 25  | 5     | 616 | ZEX  | C35-C34-C33 | -10.75 | 111.97      | 127.31   |
| 25  | 2     | 617 | ZEX  | C15-C14-C13 | -10.72 | 112.00      | 127.31   |
| 25  | 5     | 614 | ZEX  | C20-C13-C14 | -10.70 | 107.93      | 122.92   |
| 25  | 3     | 217 | ZEX  | C11-C10-C9  | -10.69 | 112.05      | 127.31   |
| 25  | 5     | 616 | ZEX  | C11-C10-C9  | -10.67 | 112.08      | 127.31   |
| 25  | 4     | 616 | ZEX  | C35-C34-C33 | -10.63 | 112.14      | 127.31   |
| 25  | 2     | 615 | ZEX  | C39-C29-C30 | -10.58 | 108.10      | 122.92   |
| 25  | 1     | 616 | ZEX  | C35-C34-C33 | -10.56 | 112.25      | 127.31   |
| 25  | 1     | 613 | ZEX  | C15-C14-C13 | -10.50 | 112.33      | 127.31   |
| 25  | 4     | 617 | ZEX  | C35-C34-C33 | -10.47 | 112.36      | 127.31   |
| 25  | 3     | 217 | ZEX  | C15-C14-C13 | -10.46 | 112.39      | 127.31   |
| 25  | 2     | 617 | ZEX  | C35-C34-C33 | -10.45 | 112.39      | 127.31   |
| 25  | 2     | 614 | ZEX  | C31-C30-C29 | -10.43 | 112.42      | 127.31   |
| 25  | 3     | 218 | ZEX  | C39-C29-C30 | -10.41 | 108.34      | 122.92   |
| 25  | 3     | 216 | ZEX  | C35-C34-C33 | -10.39 | 112.48      | 127.31   |
| 25  | 3     | 201 | ZEX  | C20-C13-C14 | -10.33 | 108.45      | 122.92   |
| 17  | B     | 811 | CLA  | C4A-NA-C1A  | 10.33  | 111.35      | 106.71   |
| 25  | 2     | 616 | ZEX  | C40-C33-C34 | -10.30 | 108.49      | 122.92   |
| 25  | 2     | 614 | ZEX  | C19-C9-C10  | -10.30 | 108.50      | 122.92   |
| 25  | 4     | 617 | ZEX  | C15-C14-C13 | -10.27 | 112.66      | 127.31   |
| 25  | 3     | 217 | ZEX  | C35-C34-C33 | -10.20 | 112.75      | 127.31   |
| 25  | 3     | 216 | ZEX  | C11-C10-C9  | -10.15 | 112.82      | 127.31   |
| 25  | 3     | 215 | ZEX  | C11-C10-C9  | -10.12 | 112.87      | 127.31   |
| 25  | 3     | 201 | ZEX  | C15-C14-C13 | -10.12 | 112.87      | 127.31   |
| 25  | 3     | 214 | ZEX  | C15-C14-C13 | -10.10 | 112.89      | 127.31   |
| 25  | 5     | 616 | ZEX  | C19-C9-C10  | -10.10 | 108.78      | 122.92   |
| 25  | 4     | 616 | ZEX  | C31-C30-C29 | -10.09 | 112.92      | 127.31   |
| 25  | 1     | 616 | ZEX  | C15-C14-C13 | -10.06 | 112.95      | 127.31   |
| 25  | 4     | 617 | ZEX  | C11-C10-C9  | -10.02 | 113.01      | 127.31   |
| 25  | 4     | 616 | ZEX  | C15-C14-C13 | -10.02 | 113.01      | 127.31   |
| 25  | 4     | 614 | ZEX  | C15-C14-C13 | -10.00 | 113.04      | 127.31   |
| 25  | 2     | 617 | ZEX  | C20-C13-C14 | -9.99  | 108.93      | 122.92   |
| 25  | 1     | 614 | ZEX  | C35-C34-C33 | -9.97  | 113.09      | 127.31   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25  | 4     | 617 | ZEX  | C40-C33-C34 | -9.96 | 108.97      | 122.92   |
| 25  | 3     | 217 | ZEX  | C40-C33-C34 | -9.95 | 108.99      | 122.92   |
| 25  | 1     | 615 | ZEX  | C20-C13-C14 | -9.94 | 108.99      | 122.92   |
| 25  | 5     | 614 | ZEX  | C31-C30-C29 | -9.94 | 113.12      | 127.31   |
| 25  | 1     | 616 | ZEX  | C40-C33-C34 | -9.93 | 109.01      | 122.92   |
| 25  | 1     | 613 | ZEX  | C11-C10-C9  | -9.93 | 113.14      | 127.31   |
| 25  | 2     | 617 | ZEX  | C31-C30-C29 | -9.92 | 113.15      | 127.31   |
| 25  | 2     | 614 | ZEX  | C39-C29-C30 | -9.90 | 109.06      | 122.92   |
| 25  | 5     | 615 | ZEX  | C31-C30-C29 | -9.89 | 113.19      | 127.31   |
| 25  | 1     | 616 | ZEX  | C39-C29-C30 | -9.89 | 109.07      | 122.92   |
| 25  | 1     | 613 | ZEX  | C39-C29-C30 | -9.88 | 109.08      | 122.92   |
| 25  | 2     | 617 | ZEX  | C40-C33-C34 | -9.88 | 109.08      | 122.92   |
| 25  | 3     | 218 | ZEX  | C31-C30-C29 | -9.86 | 113.23      | 127.31   |
| 25  | 3     | 201 | ZEX  | C39-C29-C30 | -9.85 | 109.12      | 122.92   |
| 25  | 5     | 616 | ZEX  | C40-C33-C34 | -9.84 | 109.13      | 122.92   |
| 25  | 3     | 217 | ZEX  | C19-C9-C10  | -9.84 | 109.14      | 122.92   |
| 25  | 1     | 615 | ZEX  | C27-C26-C25 | -9.83 | 106.94      | 122.84   |
| 25  | 5     | 615 | ZEX  | C35-C34-C33 | -9.83 | 113.29      | 127.31   |
| 25  | 1     | 614 | ZEX  | C19-C9-C10  | -9.81 | 109.19      | 122.92   |
| 25  | 4     | 615 | ZEX  | C15-C14-C13 | -9.80 | 113.33      | 127.31   |
| 25  | 5     | 616 | ZEX  | C20-C13-C14 | -9.79 | 109.20      | 122.92   |
| 25  | 4     | 612 | ZEX  | C39-C29-C30 | -9.77 | 109.24      | 122.92   |
| 25  | 4     | 614 | ZEX  | C11-C10-C9  | -9.75 | 113.39      | 127.31   |
| 25  | 5     | 616 | ZEX  | C31-C30-C29 | -9.74 | 113.40      | 127.31   |
| 25  | 3     | 218 | ZEX  | C18-C5-C6   | -9.74 | 113.59      | 124.53   |
| 18  | B     | 844 | PQN  | C11-C12-C13 | -9.74 | 110.58      | 126.79   |
| 17  | B     | 806 | CLA  | C4A-NA-C1A  | 9.73  | 111.08      | 106.71   |
| 25  | 3     | 214 | ZEX  | C19-C9-C10  | -9.72 | 109.31      | 122.92   |
| 25  | 2     | 617 | ZEX  | C39-C29-C30 | -9.70 | 109.34      | 122.92   |
| 25  | 2     | 614 | ZEX  | C27-C26-C25 | -9.68 | 107.18      | 122.84   |
| 25  | 4     | 615 | ZEX  | C19-C9-C10  | -9.68 | 109.37      | 122.92   |
| 25  | 2     | 615 | ZEX  | C19-C9-C10  | -9.67 | 109.38      | 122.92   |
| 25  | 5     | 615 | ZEX  | C27-C26-C25 | -9.66 | 107.23      | 122.84   |
| 25  | 3     | 216 | ZEX  | C40-C33-C34 | -9.63 | 109.43      | 122.92   |
| 25  | 1     | 617 | ZEX  | C15-C14-C13 | -9.63 | 113.56      | 127.31   |
| 25  | 1     | 616 | ZEX  | C19-C9-C10  | -9.61 | 109.45      | 122.92   |
| 17  | 1     | 601 | CLA  | C4A-NA-C1A  | 9.60  | 111.02      | 106.71   |
| 25  | 4     | 615 | ZEX  | C35-C34-C33 | -9.57 | 113.65      | 127.31   |
| 25  | 5     | 615 | ZEX  | C40-C33-C34 | -9.53 | 109.58      | 122.92   |
| 25  | 5     | 616 | ZEX  | C39-C29-C30 | -9.52 | 109.58      | 122.92   |
| 25  | 3     | 217 | ZEX  | C20-C13-C14 | -9.49 | 109.62      | 122.92   |
| 25  | 2     | 615 | ZEX  | C20-C13-C14 | -9.47 | 109.66      | 122.92   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25  | 3     | 216 | ZEX  | C19-C9-C10  | -9.46 | 109.67      | 122.92   |
| 25  | 5     | 616 | ZEX  | C15-C14-C13 | -9.46 | 113.81      | 127.31   |
| 25  | 5     | 617 | ZEX  | C39-C29-C30 | -9.44 | 109.70      | 122.92   |
| 25  | 4     | 616 | ZEX  | C39-C29-C30 | -9.44 | 109.70      | 122.92   |
| 25  | 3     | 215 | ZEX  | C40-C33-C34 | -9.43 | 109.71      | 122.92   |
| 25  | 3     | 218 | ZEX  | C15-C14-C13 | -9.38 | 113.93      | 127.31   |
| 25  | 1     | 613 | ZEX  | C19-C9-C8   | -9.37 | 103.31      | 118.08   |
| 25  | 4     | 613 | ZEX  | C19-C9-C10  | -9.37 | 109.80      | 122.92   |
| 25  | 4     | 616 | ZEX  | C40-C33-C34 | -9.36 | 109.81      | 122.92   |
| 25  | 5     | 617 | ZEX  | C1-C6-C5    | -9.35 | 109.44      | 122.61   |
| 25  | 4     | 616 | ZEX  | C19-C9-C10  | -9.34 | 109.84      | 122.92   |
| 25  | 5     | 617 | ZEX  | C35-C34-C33 | -9.34 | 113.98      | 127.31   |
| 25  | 4     | 613 | ZEX  | C15-C14-C13 | -9.32 | 114.00      | 127.31   |
| 25  | 4     | 617 | ZEX  | C20-C13-C14 | -9.30 | 109.89      | 122.92   |
| 25  | 4     | 617 | ZEX  | C19-C9-C10  | -9.30 | 109.90      | 122.92   |
| 25  | 5     | 615 | ZEX  | C20-C13-C14 | -9.24 | 109.98      | 122.92   |
| 25  | 2     | 616 | ZEX  | C19-C9-C10  | -9.24 | 109.98      | 122.92   |
| 25  | 5     | 614 | ZEX  | C40-C33-C34 | -9.23 | 109.99      | 122.92   |
| 25  | 1     | 617 | ZEX  | C39-C29-C30 | -9.22 | 110.01      | 122.92   |
| 25  | 3     | 201 | ZEX  | C40-C33-C34 | -9.21 | 110.02      | 122.92   |
| 25  | 5     | 617 | ZEX  | C27-C26-C25 | -9.20 | 107.97      | 122.84   |
| 25  | 3     | 215 | ZEX  | C39-C29-C30 | -9.18 | 110.06      | 122.92   |
| 25  | 3     | 216 | ZEX  | C31-C30-C29 | -9.18 | 114.21      | 127.31   |
| 25  | 2     | 616 | ZEX  | C31-C30-C29 | -9.17 | 114.23      | 127.31   |
| 25  | 2     | 614 | ZEX  | C20-C13-C14 | -9.15 | 110.10      | 122.92   |
| 25  | 4     | 612 | ZEX  | C20-C13-C14 | -9.14 | 110.11      | 122.92   |
| 25  | 3     | 214 | ZEX  | C40-C33-C34 | -9.11 | 110.16      | 122.92   |
| 25  | 3     | 214 | ZEX  | C39-C29-C30 | -9.09 | 110.19      | 122.92   |
| 25  | 2     | 614 | ZEX  | C40-C33-C34 | -9.08 | 110.20      | 122.92   |
| 25  | 4     | 613 | ZEX  | C1-C6-C5    | -9.08 | 109.82      | 122.61   |
| 25  | 2     | 616 | ZEX  | C11-C10-C9  | -9.04 | 114.41      | 127.31   |
| 25  | 5     | 614 | ZEX  | C27-C26-C25 | -9.04 | 108.23      | 122.84   |
| 25  | 4     | 616 | ZEX  | C20-C13-C14 | -9.03 | 110.28      | 122.92   |
| 25  | 3     | 216 | ZEX  | C39-C29-C30 | -8.98 | 110.34      | 122.92   |
| 25  | 1     | 615 | ZEX  | C40-C33-C34 | -8.95 | 110.38      | 122.92   |
| 25  | 4     | 613 | ZEX  | C39-C29-C30 | -8.94 | 110.39      | 122.92   |
| 25  | 4     | 613 | ZEX  | C20-C13-C14 | -8.94 | 110.40      | 122.92   |
| 25  | 4     | 614 | ZEX  | C19-C9-C10  | -8.93 | 110.41      | 122.92   |
| 25  | 1     | 613 | ZEX  | C20-C13-C14 | -8.93 | 110.42      | 122.92   |
| 25  | 2     | 615 | ZEX  | C11-C10-C9  | -8.92 | 114.58      | 127.31   |
| 25  | 2     | 617 | ZEX  | C27-C26-C25 | -8.92 | 108.42      | 122.84   |
| 25  | 3     | 216 | ZEX  | C15-C14-C13 | -8.88 | 114.64      | 127.31   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25  | 4     | 613 | ZEX  | C35-C34-C33 | -8.87 | 114.64      | 127.31   |
| 25  | 1     | 615 | ZEX  | C19-C9-C10  | -8.86 | 110.51      | 122.92   |
| 25  | 3     | 215 | ZEX  | C35-C34-C33 | -8.84 | 114.70      | 127.31   |
| 25  | 2     | 617 | ZEX  | C11-C10-C9  | -8.84 | 114.70      | 127.31   |
| 25  | 5     | 614 | ZEX  | C19-C9-C10  | -8.83 | 110.56      | 122.92   |
| 25  | 3     | 217 | ZEX  | C27-C26-C25 | -8.83 | 108.57      | 122.84   |
| 17  | B     | 835 | CLA  | C4A-NA-C1A  | 8.82  | 110.67      | 106.71   |
| 17  | 4     | 601 | CLA  | C4A-NA-C1A  | 8.79  | 110.66      | 106.71   |
| 25  | 3     | 201 | ZEX  | C27-C26-C25 | -8.76 | 108.68      | 122.84   |
| 25  | 5     | 615 | ZEX  | C11-C10-C9  | -8.75 | 114.82      | 127.31   |
| 25  | 3     | 216 | ZEX  | C27-C26-C25 | -8.75 | 108.70      | 122.84   |
| 25  | 4     | 614 | ZEX  | C20-C13-C14 | -8.74 | 110.67      | 122.92   |
| 25  | 5     | 614 | ZEX  | C20-C13-C12 | -8.74 | 104.30      | 118.08   |
| 25  | 5     | 617 | ZEX  | C31-C30-C29 | -8.74 | 114.83      | 127.31   |
| 25  | 4     | 613 | ZEX  | C40-C33-C34 | -8.74 | 110.69      | 122.92   |
| 17  | 5     | 612 | CLA  | C4A-NA-C1A  | 8.72  | 110.63      | 106.71   |
| 25  | 5     | 615 | ZEX  | C15-C14-C13 | -8.71 | 114.88      | 127.31   |
| 25  | 1     | 617 | ZEX  | C19-C9-C10  | -8.71 | 110.72      | 122.92   |
| 25  | 1     | 613 | ZEX  | C1-C6-C5    | -8.69 | 110.37      | 122.61   |
| 25  | 4     | 612 | ZEX  | C19-C9-C10  | -8.69 | 110.75      | 122.92   |
| 25  | 3     | 215 | ZEX  | C19-C9-C10  | -8.69 | 110.76      | 122.92   |
| 25  | 1     | 616 | ZEX  | C20-C13-C14 | -8.66 | 110.80      | 122.92   |
| 25  | 2     | 614 | ZEX  | C35-C34-C33 | -8.64 | 114.98      | 127.31   |
| 25  | 3     | 215 | ZEX  | C39-C29-C28 | -8.63 | 104.47      | 118.08   |
| 25  | 1     | 614 | ZEX  | C15-C14-C13 | -8.63 | 115.00      | 127.31   |
| 25  | 3     | 218 | ZEX  | C20-C13-C14 | -8.60 | 110.88      | 122.92   |
| 25  | 2     | 615 | ZEX  | C32-C33-C34 | -8.56 | 105.81      | 118.94   |
| 25  | 5     | 614 | ZEX  | C39-C29-C30 | -8.55 | 110.95      | 122.92   |
| 18  | A     | 840 | PQN  | C11-C12-C13 | -8.55 | 112.56      | 126.79   |
| 25  | 4     | 614 | ZEX  | C35-C34-C33 | -8.53 | 115.14      | 127.31   |
| 17  | A     | 848 | CLA  | C4A-NA-C1A  | 8.52  | 110.53      | 106.71   |
| 25  | 1     | 617 | ZEX  | C1-C6-C5    | -8.49 | 110.65      | 122.61   |
| 25  | 2     | 616 | ZEX  | C39-C29-C30 | -8.46 | 111.07      | 122.92   |
| 25  | 1     | 613 | ZEX  | C40-C33-C34 | -8.41 | 111.14      | 122.92   |
| 17  | B     | 814 | CLA  | C4A-NA-C1A  | 8.41  | 110.49      | 106.71   |
| 25  | 4     | 614 | ZEX  | C40-C33-C34 | -8.40 | 111.16      | 122.92   |
| 25  | 4     | 615 | ZEX  | C20-C13-C14 | -8.39 | 111.17      | 122.92   |
| 25  | 3     | 216 | ZEX  | C20-C13-C14 | -8.39 | 111.17      | 122.92   |
| 17  | A     | 839 | CLA  | C4A-NA-C1A  | 8.37  | 110.47      | 106.71   |
| 17  | B     | 842 | CLA  | C4A-NA-C1A  | 8.36  | 110.46      | 106.71   |
| 17  | A     | 813 | CLA  | C4A-NA-C1A  | 8.35  | 110.46      | 106.71   |
| 25  | 3     | 201 | ZEX  | C1-C6-C5    | -8.34 | 110.86      | 122.61   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25  | 1     | 615 | ZEX  | C32-C33-C34 | -8.33 | 106.16      | 118.94   |
| 25  | 3     | 218 | ZEX  | C40-C33-C34 | -8.30 | 111.29      | 122.92   |
| 25  | 4     | 617 | ZEX  | C27-C26-C25 | -8.30 | 109.41      | 122.84   |
| 25  | 1     | 613 | ZEX  | C35-C34-C33 | -8.30 | 115.47      | 127.31   |
| 17  | A     | 818 | CLA  | C4A-NA-C1A  | 8.27  | 110.42      | 106.71   |
| 25  | 2     | 615 | ZEX  | C28-C29-C30 | -8.26 | 106.27      | 118.94   |
| 25  | 1     | 615 | ZEX  | C31-C30-C29 | -8.22 | 115.57      | 127.31   |
| 17  | B     | 832 | CLA  | CMB-C2B-C1B | -8.21 | 115.85      | 128.46   |
| 25  | 4     | 612 | ZEX  | C40-C33-C34 | -8.20 | 111.43      | 122.92   |
| 25  | 3     | 217 | ZEX  | C39-C29-C30 | -8.19 | 111.44      | 122.92   |
| 25  | 2     | 617 | ZEX  | C19-C9-C10  | -8.19 | 111.45      | 122.92   |
| 25  | 4     | 615 | ZEX  | C27-C26-C25 | -8.18 | 109.61      | 122.84   |
| 25  | 5     | 615 | ZEX  | C39-C29-C30 | -8.15 | 111.50      | 122.92   |
| 25  | 4     | 615 | ZEX  | C40-C33-C34 | -8.15 | 111.51      | 122.92   |
| 25  | 2     | 615 | ZEX  | C35-C34-C33 | -8.13 | 115.71      | 127.31   |
| 17  | 2     | 602 | CLA  | C4A-NA-C1A  | 8.12  | 110.36      | 106.71   |
| 25  | 3     | 218 | ZEX  | C19-C9-C10  | -8.11 | 111.56      | 122.92   |
| 25  | 1     | 614 | ZEX  | C40-C33-C34 | -8.10 | 111.57      | 122.92   |
| 17  | A     | 802 | CLA  | C4A-NA-C1A  | 8.09  | 110.34      | 106.71   |
| 25  | 3     | 201 | ZEX  | C11-C10-C9  | -8.07 | 115.79      | 127.31   |
| 25  | 5     | 617 | ZEX  | C40-C33-C34 | -8.06 | 111.63      | 122.92   |
| 25  | 1     | 613 | ZEX  | C27-C26-C25 | -8.06 | 109.81      | 122.84   |
| 17  | A     | 820 | CLA  | C4A-NA-C1A  | 8.05  | 110.33      | 106.71   |
| 25  | 5     | 616 | ZEX  | C27-C26-C25 | -8.04 | 109.85      | 122.84   |
| 17  | B     | 841 | CLA  | C4A-NA-C1A  | 8.02  | 110.31      | 106.71   |
| 25  | 4     | 613 | ZEX  | C32-C33-C34 | -7.99 | 106.68      | 118.94   |
| 25  | 2     | 616 | ZEX  | C20-C13-C14 | -7.98 | 111.74      | 122.92   |
| 25  | 5     | 614 | ZEX  | C11-C10-C9  | -7.98 | 115.92      | 127.31   |
| 17  | 2     | 604 | CLA  | C4A-NA-C1A  | 7.98  | 110.29      | 106.71   |
| 17  | 2     | 601 | CLA  | C4A-NA-C1A  | 7.96  | 110.28      | 106.71   |
| 25  | 3     | 215 | ZEX  | C27-C26-C25 | -7.95 | 109.98      | 122.84   |
| 17  | 4     | 610 | CLA  | C4A-NA-C1A  | 7.95  | 110.28      | 106.71   |
| 25  | 4     | 612 | ZEX  | C15-C14-C13 | -7.95 | 115.97      | 127.31   |
| 25  | 3     | 215 | ZEX  | C32-C33-C34 | -7.92 | 106.78      | 118.94   |
| 17  | A     | 826 | CLA  | C4A-NA-C1A  | 7.92  | 110.27      | 106.71   |
| 17  | A     | 806 | CLA  | C4A-NA-C1A  | 7.92  | 110.27      | 106.71   |
| 25  | 1     | 617 | ZEX  | C35-C34-C33 | -7.90 | 116.04      | 127.31   |
| 25  | 2     | 617 | ZEX  | C19-C9-C8   | -7.89 | 105.64      | 118.08   |
| 25  | 4     | 614 | ZEX  | C39-C29-C30 | -7.89 | 111.87      | 122.92   |
| 17  | A     | 832 | CLA  | C4A-NA-C1A  | 7.88  | 110.25      | 106.71   |
| 17  | 2     | 605 | CLA  | C4A-NA-C1A  | 7.87  | 110.24      | 106.71   |
| 17  | 4     | 606 | CLA  | C4A-NA-C1A  | 7.87  | 110.24      | 106.71   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25  | 4     | 614 | ZEX  | C27-C26-C25 | -7.85 | 110.14      | 122.84   |
| 25  | 1     | 617 | ZEX  | C20-C13-C14 | -7.83 | 111.96      | 122.92   |
| 17  | B     | 818 | CLA  | C4A-NA-C1A  | 7.82  | 110.22      | 106.71   |
| 17  | A     | 831 | CLA  | C4A-NA-C1A  | 7.82  | 110.22      | 106.71   |
| 17  | 1     | 611 | CLA  | CAC-C3C-C4C | 7.80  | 134.93      | 124.81   |
| 25  | 5     | 615 | ZEX  | C19-C9-C10  | -7.80 | 112.00      | 122.92   |
| 25  | 4     | 612 | ZEX  | C11-C10-C9  | -7.78 | 116.20      | 127.31   |
| 17  | B     | 821 | CLA  | C4A-NA-C1A  | 7.77  | 110.20      | 106.71   |
| 25  | 4     | 616 | ZEX  | C27-C26-C25 | -7.77 | 110.28      | 122.84   |
| 25  | 4     | 612 | ZEX  | C12-C13-C14 | -7.77 | 107.03      | 118.94   |
| 25  | 5     | 614 | ZEX  | C8-C9-C10   | -7.76 | 107.03      | 118.94   |
| 17  | B     | 808 | CLA  | C4A-NA-C1A  | 7.75  | 110.19      | 106.71   |
| 17  | A     | 819 | CLA  | C4A-NA-C1A  | 7.75  | 110.19      | 106.71   |
| 25  | 2     | 614 | ZEX  | C15-C14-C13 | -7.74 | 116.26      | 127.31   |
| 25  | 3     | 218 | ZEX  | C11-C10-C9  | -7.74 | 116.26      | 127.31   |
| 17  | B     | 810 | CLA  | C4A-NA-C1A  | 7.73  | 110.18      | 106.71   |
| 17  | 5     | 608 | CLA  | C4A-NA-C1A  | 7.73  | 110.18      | 106.71   |
| 17  | 1     | 608 | CLA  | C4A-NA-C1A  | 7.72  | 110.18      | 106.71   |
| 25  | 1     | 613 | ZEX  | C19-C9-C10  | -7.72 | 112.11      | 122.92   |
| 25  | 1     | 616 | ZEX  | C27-C26-C25 | -7.72 | 110.36      | 122.84   |
| 17  | B     | 822 | CLA  | C4A-NA-C1A  | 7.70  | 110.17      | 106.71   |
| 25  | 3     | 217 | ZEX  | C31-C30-C29 | -7.70 | 116.33      | 127.31   |
| 25  | 1     | 617 | ZEX  | C40-C33-C34 | -7.69 | 112.15      | 122.92   |
| 25  | 1     | 615 | ZEX  | C39-C29-C30 | -7.69 | 112.15      | 122.92   |
| 25  | 1     | 615 | ZEX  | C8-C9-C10   | -7.68 | 107.15      | 118.94   |
| 17  | 5     | 603 | CLA  | C4A-NA-C1A  | 7.68  | 110.16      | 106.71   |
| 17  | B     | 801 | CLA  | C4A-NA-C1A  | 7.67  | 110.16      | 106.71   |
| 17  | 3     | 207 | CLA  | C4A-NA-C1A  | 7.67  | 110.15      | 106.71   |
| 25  | 2     | 617 | ZEX  | C28-C29-C30 | -7.66 | 107.19      | 118.94   |
| 25  | 4     | 615 | ZEX  | C31-C30-C29 | -7.65 | 116.39      | 127.31   |
| 25  | 1     | 617 | ZEX  | C27-C26-C25 | -7.64 | 110.48      | 122.84   |
| 17  | 2     | 610 | CLA  | C4A-NA-C1A  | 7.63  | 110.14      | 106.71   |
| 25  | 4     | 617 | ZEX  | C31-C30-C29 | -7.61 | 116.45      | 127.31   |
| 17  | K     | 103 | CLA  | C4A-NA-C1A  | 7.61  | 110.13      | 106.71   |
| 25  | 1     | 615 | ZEX  | C35-C34-C33 | -7.61 | 116.45      | 127.31   |
| 25  | 3     | 217 | ZEX  | C28-C29-C30 | -7.60 | 107.28      | 118.94   |
| 17  | B     | 819 | CLA  | C4A-NA-C1A  | 7.58  | 110.11      | 106.71   |
| 17  | B     | 807 | CLA  | C4A-NA-C1A  | 7.58  | 110.11      | 106.71   |
| 25  | 4     | 614 | ZEX  | C32-C33-C34 | -7.58 | 107.32      | 118.94   |
| 25  | 2     | 617 | ZEX  | C8-C9-C10   | -7.57 | 107.32      | 118.94   |
| 17  | 3     | 213 | CLA  | C4A-NA-C1A  | 7.56  | 110.10      | 106.71   |
| 25  | 4     | 612 | ZEX  | C27-C26-C25 | -7.56 | 110.62      | 122.84   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | A     | 814 | CLA  | C4A-NA-C1A  | 7.56  | 110.10      | 106.71   |
| 17  | L     | 203 | CLA  | C4A-NA-C1A  | 7.55  | 110.10      | 106.71   |
| 17  | 2     | 608 | CLA  | C4A-NA-C1A  | 7.54  | 110.10      | 106.71   |
| 17  | 5     | 604 | CLA  | C4A-NA-C1A  | 7.49  | 110.07      | 106.71   |
| 17  | 3     | 204 | CLA  | C4A-NA-C1A  | 7.47  | 110.06      | 106.71   |
| 25  | 4     | 616 | ZEX  | C28-C29-C30 | -7.47 | 107.48      | 118.94   |
| 25  | 2     | 614 | ZEX  | C28-C29-C30 | -7.47 | 107.48      | 118.94   |
| 17  | A     | 808 | CLA  | C4A-NA-C1A  | 7.46  | 110.06      | 106.71   |
| 17  | A     | 825 | CLA  | C4A-NA-C1A  | 7.42  | 110.04      | 106.71   |
| 17  | B     | 803 | CLA  | C4A-NA-C1A  | 7.42  | 110.04      | 106.71   |
| 16  | A     | 801 | CL0  | CBA-CAA-C2A | -7.42 | 91.96       | 113.86   |
| 25  | 4     | 612 | ZEX  | C8-C9-C10   | -7.41 | 107.58      | 118.94   |
| 17  | 1     | 602 | CLA  | C4A-NA-C1A  | 7.39  | 110.03      | 106.71   |
| 17  | B     | 837 | CLA  | C4A-NA-C1A  | 7.38  | 110.02      | 106.71   |
| 25  | 4     | 614 | ZEX  | C28-C29-C30 | -7.37 | 107.64      | 118.94   |
| 17  | B     | 824 | CLA  | C4A-NA-C1A  | 7.36  | 110.02      | 106.71   |
| 25  | 5     | 615 | ZEX  | C39-C29-C28 | -7.36 | 106.48      | 118.08   |
| 17  | 4     | 607 | CLA  | C4A-NA-C1A  | 7.36  | 110.01      | 106.71   |
| 17  | A     | 803 | CLA  | C4A-NA-C1A  | 7.32  | 110.00      | 106.71   |
| 17  | A     | 838 | CLA  | C4A-NA-C1A  | 7.31  | 109.99      | 106.71   |
| 17  | A     | 834 | CLA  | C4A-NA-C1A  | 7.30  | 109.99      | 106.71   |
| 25  | 5     | 615 | ZEX  | C40-C33-C32 | -7.29 | 106.59      | 118.08   |
| 17  | B     | 829 | CLA  | C4A-NA-C1A  | 7.29  | 109.98      | 106.71   |
| 17  | J     | 102 | CLA  | C4A-NA-C1A  | 7.29  | 109.98      | 106.71   |
| 17  | F     | 303 | CLA  | C4A-NA-C1A  | 7.28  | 109.98      | 106.71   |
| 17  | 5     | 605 | CLA  | C4A-NA-C1A  | 7.28  | 109.98      | 106.71   |
| 25  | 2     | 616 | ZEX  | C8-C9-C10   | -7.28 | 107.77      | 118.94   |
| 16  | A     | 801 | CL0  | CHB-C4A-NA  | 7.28  | 134.58      | 124.51   |
| 25  | 3     | 216 | ZEX  | C8-C9-C10   | -7.28 | 107.78      | 118.94   |
| 17  | A     | 837 | CLA  | C4A-NA-C1A  | 7.27  | 109.97      | 106.71   |
| 17  | J     | 103 | CLA  | C4A-NA-C1A  | 7.26  | 109.97      | 106.71   |
| 17  | A     | 822 | CLA  | C4A-NA-C1A  | 7.25  | 109.97      | 106.71   |
| 17  | A     | 836 | CLA  | C4A-NA-C1A  | 7.25  | 109.96      | 106.71   |
| 17  | A     | 823 | CLA  | C4A-NA-C1A  | 7.24  | 109.96      | 106.71   |
| 17  | J     | 101 | CLA  | C4A-NA-C1A  | 7.24  | 109.96      | 106.71   |
| 25  | 3     | 201 | ZEX  | C19-C9-C10  | -7.24 | 112.78      | 122.92   |
| 17  | 3     | 212 | CLA  | C4A-NA-C1A  | 7.24  | 109.96      | 106.71   |
| 25  | 4     | 617 | ZEX  | C28-C29-C30 | -7.23 | 107.84      | 118.94   |
| 17  | B     | 840 | CLA  | C4A-NA-C1A  | 7.23  | 109.95      | 106.71   |
| 25  | 3     | 218 | ZEX  | C35-C34-C33 | -7.21 | 117.02      | 127.31   |
| 17  | B     | 823 | CLA  | C4A-NA-C1A  | 7.21  | 109.95      | 106.71   |
| 17  | A     | 809 | CLA  | C4A-NA-C1A  | 7.20  | 109.94      | 106.71   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | A     | 815 | CLA  | C4A-NA-C1A  | 7.20  | 109.94      | 106.71   |
| 25  | 1     | 613 | ZEX  | C32-C33-C34 | -7.20 | 107.90      | 118.94   |
| 25  | 4     | 613 | ZEX  | C27-C26-C25 | -7.19 | 111.22      | 122.84   |
| 17  | 2     | 603 | CLA  | C4A-NA-C1A  | 7.18  | 109.93      | 106.71   |
| 17  | 2     | 607 | CLA  | C4A-NA-C1A  | 7.17  | 109.93      | 106.71   |
| 25  | 3     | 214 | ZEX  | C39-C29-C28 | -7.16 | 106.80      | 118.08   |
| 17  | B     | 825 | CLA  | C4A-NA-C1A  | 7.16  | 109.92      | 106.71   |
| 25  | 3     | 215 | ZEX  | C20-C13-C12 | -7.16 | 106.80      | 118.08   |
| 25  | 4     | 612 | ZEX  | C28-C29-C30 | -7.15 | 107.97      | 118.94   |
| 25  | 3     | 214 | ZEX  | C8-C9-C10   | -7.15 | 107.98      | 118.94   |
| 25  | 1     | 617 | ZEX  | C8-C9-C10   | -7.14 | 107.99      | 118.94   |
| 17  | B     | 836 | CLA  | C4A-NA-C1A  | 7.13  | 109.91      | 106.71   |
| 25  | 1     | 615 | ZEX  | C39-C29-C28 | -7.12 | 106.86      | 118.08   |
| 17  | 3     | 202 | CLA  | C4A-NA-C1A  | 7.12  | 109.91      | 106.71   |
| 25  | 4     | 615 | ZEX  | C28-C29-C30 | -7.12 | 108.02      | 118.94   |
| 17  | B     | 801 | CLA  | CMB-C2B-C1B | -7.09 | 117.56      | 128.46   |
| 17  | F     | 302 | CLA  | C4A-NA-C1A  | 7.09  | 109.89      | 106.71   |
| 25  | 3     | 201 | ZEX  | C39-C29-C28 | -7.08 | 106.92      | 118.08   |
| 25  | 4     | 614 | ZEX  | C31-C30-C29 | -7.07 | 117.22      | 127.31   |
| 17  | 4     | 603 | CLA  | C4A-NA-C1A  | 7.07  | 109.89      | 106.71   |
| 17  | B     | 815 | CLA  | C4A-NA-C1A  | 7.06  | 109.88      | 106.71   |
| 25  | 1     | 614 | ZEX  | C12-C13-C14 | -7.03 | 108.15      | 118.94   |
| 17  | 5     | 610 | CLA  | C4A-NA-C1A  | 7.03  | 109.87      | 106.71   |
| 17  | L     | 202 | CLA  | C4A-NA-C1A  | 7.03  | 109.86      | 106.71   |
| 17  | 5     | 602 | CLA  | C4A-NA-C1A  | 7.02  | 109.86      | 106.71   |
| 17  | A     | 828 | CLA  | C4A-NA-C1A  | 7.02  | 109.86      | 106.71   |
| 17  | A     | 828 | CLA  | CMB-C2B-C1B | -7.02 | 117.68      | 128.46   |
| 17  | 3     | 203 | CLA  | C4A-NA-C1A  | 7.02  | 109.86      | 106.71   |
| 25  | 1     | 615 | ZEX  | C12-C13-C14 | -7.00 | 108.20      | 118.94   |
| 25  | 3     | 201 | ZEX  | C7-C8-C9    | -6.99 | 115.67      | 126.23   |
| 17  | K     | 102 | CLA  | C4A-NA-C1A  | 6.98  | 109.84      | 106.71   |
| 25  | 4     | 615 | ZEX  | C32-C33-C34 | -6.98 | 108.23      | 118.94   |
| 17  | A     | 833 | CLA  | C4A-NA-C1A  | 6.98  | 109.84      | 106.71   |
| 25  | 1     | 614 | ZEX  | C20-C13-C14 | -6.98 | 113.15      | 122.92   |
| 17  | B     | 838 | CLA  | C4A-NA-C1A  | 6.92  | 109.82      | 106.71   |
| 25  | 3     | 216 | ZEX  | C12-C13-C14 | -6.92 | 108.32      | 118.94   |
| 17  | 4     | 604 | CLA  | C4A-NA-C1A  | 6.92  | 109.82      | 106.71   |
| 25  | 3     | 201 | ZEX  | C19-C9-C8   | -6.91 | 107.18      | 118.08   |
| 17  | 4     | 605 | CLA  | C4A-NA-C1A  | 6.91  | 109.81      | 106.71   |
| 17  | 3     | 209 | CLA  | C4A-NA-C1A  | 6.90  | 109.81      | 106.71   |
| 17  | 5     | 601 | CLA  | C4A-NA-C1A  | 6.90  | 109.81      | 106.71   |
| 25  | 1     | 614 | ZEX  | C32-C33-C34 | -6.89 | 108.36      | 118.94   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | B     | 827 | CLA  | C4A-NA-C1A  | 6.89  | 109.80      | 106.71   |
| 17  | B     | 817 | CLA  | C4A-NA-C1A  | 6.88  | 109.80      | 106.71   |
| 17  | 1     | 606 | CLA  | C4A-NA-C1A  | 6.88  | 109.80      | 106.71   |
| 25  | 4     | 616 | ZEX  | C32-C33-C34 | -6.87 | 108.40      | 118.94   |
| 17  | A     | 811 | CLA  | C4A-NA-C1A  | 6.87  | 109.79      | 106.71   |
| 25  | 4     | 615 | ZEX  | C39-C29-C30 | -6.86 | 113.31      | 122.92   |
| 17  | 2     | 612 | CLA  | C4A-NA-C1A  | 6.86  | 109.79      | 106.71   |
| 17  | A     | 817 | CLA  | C4A-NA-C1A  | 6.86  | 109.79      | 106.71   |
| 17  | A     | 821 | CLA  | C4A-NA-C1A  | 6.86  | 109.79      | 106.71   |
| 25  | 2     | 616 | ZEX  | C15-C14-C13 | -6.85 | 117.53      | 127.31   |
| 25  | 3     | 214 | ZEX  | C27-C26-C25 | -6.85 | 111.76      | 122.84   |
| 25  | 4     | 612 | ZEX  | C40-C33-C32 | -6.84 | 107.29      | 118.08   |
| 25  | 4     | 617 | ZEX  | C12-C13-C14 | -6.84 | 108.45      | 118.94   |
| 17  | 4     | 609 | CLA  | C4A-NA-C1A  | 6.84  | 109.78      | 106.71   |
| 25  | 4     | 617 | ZEX  | C39-C29-C30 | -6.83 | 113.35      | 122.92   |
| 17  | 3     | 211 | CLA  | C4A-NA-C1A  | 6.82  | 109.77      | 106.71   |
| 25  | 1     | 617 | ZEX  | C32-C33-C34 | -6.82 | 108.48      | 118.94   |
| 25  | 2     | 615 | ZEX  | C27-C26-C25 | -6.80 | 111.84      | 122.84   |
| 17  | 2     | 606 | CLA  | C4A-NA-C1A  | 6.80  | 109.77      | 106.71   |
| 25  | 3     | 214 | ZEX  | C20-C13-C12 | -6.80 | 107.36      | 118.08   |
| 17  | L     | 204 | CLA  | C4A-NA-C1A  | 6.79  | 109.76      | 106.71   |
| 17  | A     | 824 | CLA  | C4A-NA-C1A  | 6.79  | 109.76      | 106.71   |
| 25  | 4     | 612 | ZEX  | C1-C6-C5    | -6.78 | 113.06      | 122.61   |
| 17  | 5     | 611 | CLA  | C4A-NA-C1A  | 6.78  | 109.75      | 106.71   |
| 18  | B     | 844 | PQN  | C15-C13-C12 | -6.77 | 107.42      | 121.12   |
| 25  | 2     | 614 | ZEX  | C27-C28-C29 | -6.77 | 116.01      | 126.23   |
| 17  | A     | 804 | CLA  | C4A-NA-C1A  | 6.76  | 109.75      | 106.71   |
| 25  | 3     | 216 | ZEX  | C32-C33-C34 | -6.76 | 108.57      | 118.94   |
| 17  | A     | 807 | CLA  | C4A-NA-C1A  | 6.76  | 109.74      | 106.71   |
| 25  | 4     | 617 | ZEX  | C8-C9-C10   | -6.75 | 108.59      | 118.94   |
| 25  | 4     | 615 | ZEX  | C12-C13-C14 | -6.74 | 108.60      | 118.94   |
| 25  | 2     | 615 | ZEX  | C12-C13-C14 | -6.72 | 108.62      | 118.94   |
| 25  | 2     | 617 | ZEX  | C12-C13-C14 | -6.71 | 108.65      | 118.94   |
| 25  | 2     | 614 | ZEX  | C20-C13-C12 | -6.71 | 107.51      | 118.08   |
| 17  | 1     | 609 | CLA  | C4A-NA-C1A  | 6.68  | 109.71      | 106.71   |
| 25  | 5     | 617 | ZEX  | C32-C33-C34 | -6.68 | 108.69      | 118.94   |
| 17  | 1     | 605 | CLA  | C4A-NA-C1A  | 6.67  | 109.71      | 106.71   |
| 25  | 3     | 218 | ZEX  | C19-C9-C8   | -6.67 | 107.58      | 118.08   |
| 25  | 1     | 615 | ZEX  | C28-C29-C30 | -6.66 | 108.72      | 118.94   |
| 25  | 2     | 617 | ZEX  | C40-C33-C32 | -6.65 | 107.59      | 118.08   |
| 17  | O     | 203 | CLA  | C4A-NA-C1A  | 6.65  | 109.70      | 106.71   |
| 17  | 5     | 613 | CLA  | C4A-NA-C1A  | 6.62  | 109.68      | 106.71   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | 1     | 604 | CLA  | C4A-NA-C1A  | 6.62  | 109.68      | 106.71   |
| 18  | A     | 840 | PQN  | C15-C13-C12 | -6.61 | 107.74      | 121.12   |
| 17  | B     | 813 | CLA  | C4A-NA-C1A  | 6.61  | 109.68      | 106.71   |
| 25  | 1     | 617 | ZEX  | C40-C33-C32 | -6.61 | 107.67      | 118.08   |
| 17  | O     | 201 | CLA  | C4A-NA-C1A  | 6.61  | 109.68      | 106.71   |
| 25  | 3     | 217 | ZEX  | C32-C33-C34 | -6.60 | 108.81      | 118.94   |
| 25  | 1     | 617 | ZEX  | C39-C29-C28 | -6.58 | 107.71      | 118.08   |
| 17  | 3     | 205 | CLA  | C4A-NA-C1A  | 6.58  | 109.66      | 106.71   |
| 25  | 2     | 617 | ZEX  | C32-C33-C34 | -6.58 | 108.85      | 118.94   |
| 17  | B     | 832 | CLA  | C4A-NA-C1A  | 6.58  | 109.66      | 106.71   |
| 25  | 3     | 215 | ZEX  | C28-C27-C26 | -6.58 | 115.85      | 127.09   |
| 17  | B     | 830 | CLA  | C4A-NA-C1A  | 6.57  | 109.66      | 106.71   |
| 25  | 2     | 616 | ZEX  | C40-C33-C32 | -6.56 | 107.74      | 118.08   |
| 17  | 1     | 611 | CLA  | C4A-NA-C1A  | 6.56  | 109.66      | 106.71   |
| 17  | B     | 809 | CLA  | C4A-NA-C1A  | 6.55  | 109.65      | 106.71   |
| 17  | B     | 812 | CLA  | C4A-NA-C1A  | 6.54  | 109.65      | 106.71   |
| 17  | A     | 816 | CLA  | C4A-NA-C1A  | 6.54  | 109.65      | 106.71   |
| 17  | B     | 820 | CLA  | C4A-NA-C1A  | 6.53  | 109.64      | 106.71   |
| 17  | A     | 812 | CLA  | C4A-NA-C1A  | 6.51  | 109.64      | 106.71   |
| 17  | 4     | 611 | CLA  | C4A-NA-C1A  | 6.51  | 109.64      | 106.71   |
| 17  | 2     | 609 | CLA  | C4A-NA-C1A  | 6.51  | 109.63      | 106.71   |
| 25  | 3     | 215 | ZEX  | C19-C9-C8   | -6.51 | 107.82      | 118.08   |
| 25  | 2     | 614 | ZEX  | C39-C29-C28 | -6.50 | 107.84      | 118.08   |
| 17  | 4     | 602 | CLA  | C4A-NA-C1A  | 6.48  | 109.62      | 106.71   |
| 17  | 5     | 609 | CLA  | C4A-NA-C1A  | 6.44  | 109.60      | 106.71   |
| 17  | A     | 810 | CLA  | C4A-NA-C1A  | 6.43  | 109.60      | 106.71   |
| 17  | 1     | 612 | CLA  | C4A-NA-C1A  | 6.43  | 109.59      | 106.71   |
| 17  | 1     | 610 | CLA  | C4A-NA-C1A  | 6.42  | 109.59      | 106.71   |
| 25  | 1     | 617 | ZEX  | C28-C27-C26 | -6.42 | 116.13      | 127.09   |
| 17  | 3     | 210 | CLA  | C4A-NA-C1A  | 6.39  | 109.58      | 106.71   |
| 17  | 4     | 608 | CLA  | C4A-NA-C1A  | 6.38  | 109.58      | 106.71   |
| 25  | 5     | 615 | ZEX  | C12-C13-C14 | -6.37 | 109.16      | 118.94   |
| 17  | F     | 301 | CLA  | C4A-NA-C1A  | 6.35  | 109.56      | 106.71   |
| 25  | 3     | 216 | ZEX  | C28-C29-C30 | -6.35 | 109.20      | 118.94   |
| 17  | 2     | 613 | CLA  | C4A-NA-C1A  | 6.34  | 109.56      | 106.71   |
| 17  | B     | 801 | CLA  | CMB-C2B-C3B | 6.34  | 136.53      | 124.68   |
| 25  | 3     | 201 | ZEX  | C20-C13-C12 | -6.32 | 108.12      | 118.08   |
| 17  | 1     | 603 | CLA  | C4A-NA-C1A  | 6.29  | 109.54      | 106.71   |
| 25  | 5     | 616 | ZEX  | C12-C13-C14 | -6.29 | 109.28      | 118.94   |
| 25  | 4     | 612 | ZEX  | C19-C9-C8   | -6.28 | 108.19      | 118.08   |
| 25  | 4     | 613 | ZEX  | C12-C13-C14 | -6.27 | 109.31      | 118.94   |
| 25  | 2     | 615 | ZEX  | C8-C9-C10   | -6.26 | 109.33      | 118.94   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25  | 3     | 201 | ZEX  | C40-C33-C32 | -6.26 | 108.21      | 118.08   |
| 25  | 5     | 617 | ZEX  | C20-C13-C12 | -6.25 | 108.22      | 118.08   |
| 17  | 5     | 606 | CLA  | C2D-C1D-ND  | -6.25 | 105.50      | 110.10   |
| 17  | A     | 835 | CLA  | C4A-NA-C1A  | 6.25  | 109.51      | 106.71   |
| 17  | A     | 830 | CLA  | C4A-NA-C1A  | 6.23  | 109.51      | 106.71   |
| 17  | B     | 826 | CLA  | C4A-NA-C1A  | 6.23  | 109.51      | 106.71   |
| 25  | 3     | 218 | ZEX  | C20-C13-C12 | -6.22 | 108.27      | 118.08   |
| 17  | 2     | 611 | CLA  | C4A-NA-C1A  | 6.22  | 109.50      | 106.71   |
| 25  | 2     | 614 | ZEX  | C12-C13-C14 | -6.22 | 109.40      | 118.94   |
| 25  | 3     | 218 | ZEX  | C27-C26-C25 | -6.21 | 112.80      | 122.84   |
| 25  | 3     | 217 | ZEX  | C12-C13-C14 | -6.21 | 109.41      | 118.94   |
| 25  | 3     | 218 | ZEX  | C40-C33-C32 | -6.18 | 108.33      | 118.08   |
| 17  | O     | 205 | CLA  | C4A-NA-C1A  | 6.18  | 109.49      | 106.71   |
| 17  | 5     | 606 | CLA  | C4A-NA-C1A  | 6.17  | 109.48      | 106.71   |
| 25  | 1     | 617 | ZEX  | C28-C29-C30 | -6.15 | 109.51      | 118.94   |
| 17  | A     | 848 | CLA  | CAC-C3C-C4C | 6.14  | 132.77      | 124.81   |
| 25  | 4     | 617 | ZEX  | C39-C29-C28 | -6.13 | 108.41      | 118.08   |
| 25  | 2     | 614 | ZEX  | C8-C9-C10   | -6.13 | 109.53      | 118.94   |
| 17  | B     | 843 | CLA  | C4A-NA-C1A  | 6.13  | 109.46      | 106.71   |
| 17  | B     | 831 | CLA  | C4A-NA-C1A  | 6.11  | 109.45      | 106.71   |
| 17  | A     | 805 | CLA  | C4A-NA-C1A  | 6.10  | 109.45      | 106.71   |
| 25  | 1     | 614 | ZEX  | C20-C13-C12 | -6.09 | 108.48      | 118.08   |
| 17  | B     | 816 | CLA  | C4A-NA-C1A  | 6.09  | 109.44      | 106.71   |
| 25  | 2     | 615 | ZEX  | C40-C33-C34 | -6.08 | 114.41      | 122.92   |
| 25  | 5     | 614 | ZEX  | C19-C9-C8   | -6.06 | 108.53      | 118.08   |
| 25  | 1     | 613 | ZEX  | C20-C13-C12 | -6.05 | 108.54      | 118.08   |
| 16  | A     | 801 | CL0  | O2D-CGD-CBD | 6.05  | 122.02      | 111.27   |
| 17  | 3     | 208 | CLA  | C4A-NA-C1A  | 6.04  | 109.42      | 106.71   |
| 25  | 4     | 616 | ZEX  | C20-C13-C12 | -6.04 | 108.56      | 118.08   |
| 25  | 3     | 214 | ZEX  | C28-C27-C26 | -6.04 | 116.77      | 127.09   |
| 17  | B     | 839 | CLA  | C4A-NA-C1A  | 6.03  | 109.42      | 106.71   |
| 25  | 3     | 217 | ZEX  | C8-C9-C10   | -6.02 | 109.70      | 118.94   |
| 17  | O     | 204 | CLA  | C4A-NA-C1A  | 5.99  | 109.40      | 106.71   |
| 25  | 1     | 617 | ZEX  | C20-C13-C12 | -5.98 | 108.65      | 118.08   |
| 25  | 5     | 617 | ZEX  | C19-C9-C8   | -5.98 | 108.65      | 118.08   |
| 16  | A     | 801 | CL0  | C2A-C3A-C4A | 5.98  | 111.53      | 101.87   |
| 25  | 2     | 617 | ZEX  | C39-C29-C28 | -5.97 | 108.67      | 118.08   |
| 25  | 1     | 615 | ZEX  | C19-C9-C8   | -5.96 | 108.69      | 118.08   |
| 25  | 3     | 215 | ZEX  | C28-C29-C30 | -5.95 | 109.81      | 118.94   |
| 25  | 2     | 614 | ZEX  | C7-C8-C9    | -5.95 | 117.25      | 126.23   |
| 25  | 3     | 216 | ZEX  | C40-C33-C32 | -5.91 | 108.77      | 118.08   |
| 17  | 3     | 206 | CLA  | CMB-C2B-C1B | -5.90 | 119.39      | 128.46   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25  | 1     | 616 | ZEX  | C12-C13-C14 | -5.89 | 109.90      | 118.94   |
| 17  | 1     | 607 | CLA  | C4A-NA-C1A  | 5.89  | 109.35      | 106.71   |
| 25  | 5     | 614 | ZEX  | C39-C29-C28 | -5.88 | 108.81      | 118.08   |
| 17  | B     | 834 | CLA  | C4A-NA-C1A  | 5.85  | 109.33      | 106.71   |
| 25  | 2     | 614 | ZEX  | C19-C9-C8   | -5.83 | 108.89      | 118.08   |
| 25  | 2     | 616 | ZEX  | C12-C13-C14 | -5.83 | 109.99      | 118.94   |
| 25  | 5     | 615 | ZEX  | C19-C9-C8   | -5.80 | 108.94      | 118.08   |
| 17  | A     | 805 | CLA  | CMB-C2B-C1B | -5.80 | 119.55      | 128.46   |
| 17  | A     | 829 | CLA  | C4A-NA-C1A  | 5.80  | 109.31      | 106.71   |
| 16  | A     | 801 | CL0  | CAA-C2A-C1A | 5.79  | 130.94      | 111.97   |
| 25  | 4     | 613 | ZEX  | C28-C29-C30 | -5.79 | 110.06      | 118.94   |
| 25  | 3     | 216 | ZEX  | C28-C27-C26 | -5.77 | 117.23      | 127.09   |
| 25  | 1     | 616 | ZEX  | C32-C33-C34 | -5.77 | 110.09      | 118.94   |
| 25  | 1     | 616 | ZEX  | C20-C13-C12 | -5.74 | 109.03      | 118.08   |
| 25  | 2     | 614 | ZEX  | C40-C33-C32 | -5.74 | 109.03      | 118.08   |
| 25  | 4     | 617 | ZEX  | C32-C33-C34 | -5.73 | 110.15      | 118.94   |
| 17  | 1     | 607 | CLA  | CAA-CBA-CGA | 5.73  | 127.70      | 112.51   |
| 25  | 3     | 215 | ZEX  | C8-C9-C10   | -5.69 | 110.20      | 118.94   |
| 25  | 4     | 615 | ZEX  | C40-C33-C32 | -5.69 | 109.11      | 118.08   |
| 25  | 3     | 216 | ZEX  | C20-C13-C12 | -5.66 | 109.15      | 118.08   |
| 25  | 5     | 615 | ZEX  | C20-C13-C12 | -5.66 | 109.16      | 118.08   |
| 25  | 2     | 617 | ZEX  | C20-C13-C12 | -5.64 | 109.19      | 118.08   |
| 25  | 4     | 614 | ZEX  | C39-C29-C28 | -5.63 | 109.20      | 118.08   |
| 17  | B     | 827 | CLA  | CMB-C2B-C1B | -5.63 | 119.81      | 128.46   |
| 17  | A     | 835 | CLA  | CMB-C2B-C1B | -5.62 | 119.83      | 128.46   |
| 25  | 4     | 615 | ZEX  | C20-C13-C12 | -5.62 | 109.22      | 118.08   |
| 25  | 3     | 216 | ZEX  | C39-C29-C28 | -5.60 | 109.25      | 118.08   |
| 17  | 2     | 608 | CLA  | CMB-C2B-C1B | -5.60 | 119.86      | 128.46   |
| 16  | A     | 801 | CL0  | C4D-CHA-C1A | -5.60 | 114.44      | 121.25   |
| 25  | 1     | 613 | ZEX  | C40-C33-C32 | -5.58 | 109.28      | 118.08   |
| 25  | 5     | 616 | ZEX  | C19-C9-C8   | -5.58 | 109.29      | 118.08   |
| 25  | 5     | 616 | ZEX  | C39-C29-C28 | -5.57 | 109.30      | 118.08   |
| 17  | 3     | 203 | CLA  | CMB-C2B-C1B | -5.57 | 119.91      | 128.46   |
| 25  | 1     | 616 | ZEX  | C39-C29-C28 | -5.54 | 109.34      | 118.08   |
| 25  | 3     | 201 | ZEX  | C23-C24-C25 | 5.54  | 117.22      | 109.33   |
| 25  | 4     | 617 | ZEX  | C20-C13-C12 | -5.51 | 109.39      | 118.08   |
| 25  | 1     | 614 | ZEX  | C1-C6-C5    | -5.49 | 114.88      | 122.61   |
| 25  | 3     | 215 | ZEX  | C40-C33-C32 | -5.49 | 109.42      | 118.08   |
| 25  | 3     | 217 | ZEX  | C1-C6-C5    | -5.49 | 114.88      | 122.61   |
| 17  | 1     | 602 | CLA  | CMB-C2B-C1B | -5.49 | 120.03      | 128.46   |
| 25  | 5     | 616 | ZEX  | C32-C33-C34 | -5.49 | 110.52      | 118.94   |
| 17  | A     | 824 | CLA  | CAA-C2A-C3A | -5.48 | 97.78       | 112.78   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | B     | 832 | CLA  | CMB-C2B-C3B | 5.46  | 134.90      | 124.68   |
| 25  | 5     | 615 | ZEX  | C27-C28-C29 | -5.46 | 117.99      | 126.23   |
| 25  | 1     | 616 | ZEX  | C40-C33-C32 | -5.45 | 109.48      | 118.08   |
| 25  | 1     | 613 | ZEX  | C28-C29-C30 | -5.45 | 110.58      | 118.94   |
| 25  | 4     | 614 | ZEX  | C8-C9-C10   | -5.44 | 110.59      | 118.94   |
| 25  | 4     | 614 | ZEX  | C40-C33-C32 | -5.44 | 109.50      | 118.08   |
| 25  | 1     | 617 | ZEX  | C12-C13-C14 | -5.43 | 110.60      | 118.94   |
| 25  | 4     | 616 | ZEX  | C27-C28-C29 | -5.43 | 118.03      | 126.23   |
| 17  | B     | 833 | CLA  | C4A-NA-C1A  | 5.41  | 109.14      | 106.71   |
| 25  | 1     | 615 | ZEX  | C20-C13-C12 | -5.39 | 109.58      | 118.08   |
| 17  | A     | 827 | CLA  | CMB-C2B-C1B | -5.39 | 120.19      | 128.46   |
| 25  | 4     | 616 | ZEX  | C8-C9-C10   | -5.39 | 110.68      | 118.94   |
| 17  | A     | 830 | CLA  | CMB-C2B-C1B | -5.39 | 120.19      | 128.46   |
| 25  | 5     | 615 | ZEX  | C8-C9-C10   | -5.38 | 110.69      | 118.94   |
| 25  | 1     | 616 | ZEX  | C19-C9-C8   | -5.37 | 109.61      | 118.08   |
| 16  | A     | 801 | CL0  | C1D-ND-C4D  | -5.37 | 102.52      | 106.33   |
| 25  | 4     | 616 | ZEX  | C12-C13-C14 | -5.36 | 110.71      | 118.94   |
| 17  | A     | 848 | CLA  | CMB-C2B-C1B | -5.36 | 120.23      | 128.46   |
| 25  | 2     | 616 | ZEX  | C1-C6-C5    | -5.35 | 115.08      | 122.61   |
| 25  | 5     | 614 | ZEX  | C28-C29-C30 | -5.35 | 110.74      | 118.94   |
| 25  | 4     | 613 | ZEX  | C39-C29-C28 | -5.34 | 109.66      | 118.08   |
| 25  | 4     | 615 | ZEX  | C1-C6-C5    | -5.34 | 115.09      | 122.61   |
| 25  | 4     | 616 | ZEX  | C39-C29-C28 | -5.34 | 109.67      | 118.08   |
| 25  | 5     | 616 | ZEX  | C20-C13-C12 | -5.34 | 109.67      | 118.08   |
| 25  | 3     | 217 | ZEX  | C20-C13-C12 | -5.33 | 109.68      | 118.08   |
| 17  | A     | 819 | CLA  | CMB-C2B-C1B | -5.32 | 120.28      | 128.46   |
| 17  | 1     | 601 | CLA  | CMB-C2B-C1B | -5.32 | 120.29      | 128.46   |
| 17  | B     | 828 | CLA  | CAA-C2A-C3A | -5.32 | 98.21       | 112.78   |
| 25  | 2     | 616 | ZEX  | C27-C26-C25 | -5.32 | 114.24      | 122.84   |
| 25  | 1     | 615 | ZEX  | C7-C8-C9    | -5.32 | 118.20      | 126.23   |
| 25  | 3     | 217 | ZEX  | C39-C29-C28 | -5.31 | 109.70      | 118.08   |
| 17  | A     | 812 | CLA  | CMB-C2B-C1B | -5.31 | 120.30      | 128.46   |
| 25  | 5     | 614 | ZEX  | C40-C33-C32 | -5.30 | 109.72      | 118.08   |
| 25  | 2     | 616 | ZEX  | C19-C9-C8   | -5.30 | 109.73      | 118.08   |
| 17  | 3     | 206 | CLA  | C4A-NA-C1A  | 5.29  | 109.08      | 106.71   |
| 25  | 4     | 617 | ZEX  | C19-C9-C8   | -5.29 | 109.75      | 118.08   |
| 25  | 5     | 617 | ZEX  | C39-C29-C28 | -5.24 | 109.82      | 118.08   |
| 25  | 4     | 612 | ZEX  | C39-C29-C28 | -5.24 | 109.83      | 118.08   |
| 17  | B     | 828 | CLA  | C4A-NA-C1A  | 5.23  | 109.06      | 106.71   |
| 25  | 3     | 214 | ZEX  | C32-C33-C34 | -5.23 | 110.92      | 118.94   |
| 17  | A     | 837 | CLA  | CMB-C2B-C1B | -5.23 | 120.43      | 128.46   |
| 25  | 4     | 614 | ZEX  | C12-C13-C14 | -5.22 | 110.94      | 118.94   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25  | 2     | 615 | ZEX  | C20-C13-C12 | -5.21 | 109.86      | 118.08   |
| 17  | 3     | 209 | CLA  | CMB-C2B-C1B | -5.20 | 120.47      | 128.46   |
| 25  | 5     | 616 | ZEX  | C1-C6-C5    | -5.19 | 115.30      | 122.61   |
| 25  | 1     | 613 | ZEX  | C39-C29-C28 | -5.18 | 109.91      | 118.08   |
| 25  | 4     | 614 | ZEX  | C20-C13-C12 | -5.18 | 109.91      | 118.08   |
| 17  | A     | 835 | CLA  | CMB-C2B-C3B | 5.18  | 134.37      | 124.68   |
| 25  | 2     | 615 | ZEX  | C19-C9-C8   | -5.17 | 109.94      | 118.08   |
| 25  | 1     | 616 | ZEX  | C1-C6-C5    | -5.16 | 115.34      | 122.61   |
| 17  | B     | 831 | CLA  | CMB-C2B-C1B | -5.14 | 120.56      | 128.46   |
| 25  | 3     | 214 | ZEX  | C12-C13-C14 | -5.14 | 111.05      | 118.94   |
| 17  | B     | 840 | CLA  | CMB-C2B-C1B | -5.14 | 120.57      | 128.46   |
| 25  | 1     | 615 | ZEX  | C1-C6-C5    | -5.14 | 115.38      | 122.61   |
| 25  | 2     | 616 | ZEX  | C20-C13-C12 | -5.13 | 109.99      | 118.08   |
| 25  | 4     | 615 | ZEX  | C28-C27-C26 | -5.13 | 118.32      | 127.09   |
| 25  | 5     | 616 | ZEX  | C40-C33-C32 | -5.13 | 110.00      | 118.08   |
| 17  | B     | 834 | CLA  | CMB-C2B-C1B | -5.13 | 120.58      | 128.46   |
| 25  | 4     | 612 | ZEX  | C20-C13-C12 | -5.12 | 110.01      | 118.08   |
| 25  | 4     | 614 | ZEX  | C19-C9-C8   | -5.12 | 110.01      | 118.08   |
| 18  | A     | 840 | PQN  | C14-C13-C12 | -5.11 | 110.57      | 123.68   |
| 25  | 5     | 615 | ZEX  | C7-C8-C9    | -5.10 | 118.52      | 126.23   |
| 18  | B     | 844 | PQN  | C14-C13-C12 | -5.10 | 110.59      | 123.68   |
| 25  | 3     | 216 | ZEX  | C1-C6-C5    | -5.10 | 115.43      | 122.61   |
| 25  | 4     | 617 | ZEX  | C1-C6-C5    | -5.10 | 115.43      | 122.61   |
| 25  | 3     | 214 | ZEX  | C7-C8-C9    | -5.10 | 118.53      | 126.23   |
| 17  | B     | 821 | CLA  | CMB-C2B-C1B | -5.09 | 120.64      | 128.46   |
| 17  | A     | 804 | CLA  | CAA-C2A-C3A | -5.08 | 98.86       | 112.78   |
| 25  | 2     | 617 | ZEX  | C27-C28-C29 | -5.07 | 118.58      | 126.23   |
| 25  | 5     | 616 | ZEX  | C7-C8-C9    | -5.06 | 118.58      | 126.23   |
| 25  | 5     | 617 | ZEX  | C28-C29-C30 | -5.06 | 111.17      | 118.94   |
| 25  | 1     | 616 | ZEX  | C28-C29-C30 | -5.05 | 111.19      | 118.94   |
| 25  | 3     | 216 | ZEX  | C19-C9-C8   | -5.05 | 110.12      | 118.08   |
| 25  | 4     | 612 | ZEX  | C32-C33-C34 | -5.04 | 111.20      | 118.94   |
| 25  | 1     | 614 | ZEX  | C27-C26-C25 | -5.04 | 114.69      | 122.84   |
| 17  | 2     | 608 | CLA  | CMB-C2B-C3B | 5.03  | 134.09      | 124.68   |
| 17  | 2     | 611 | CLA  | CAC-C3C-C4C | 5.02  | 131.32      | 124.81   |
| 25  | 2     | 614 | ZEX  | C32-C33-C34 | -5.01 | 111.25      | 118.94   |
| 25  | 4     | 613 | ZEX  | C20-C13-C12 | -5.01 | 110.18      | 118.08   |
| 17  | B     | 828 | CLA  | CMB-C2B-C1B | -5.01 | 120.77      | 128.46   |
| 17  | 3     | 203 | CLA  | CMB-C2B-C3B | 5.00  | 134.03      | 124.68   |
| 25  | 3     | 214 | ZEX  | C28-C29-C30 | -4.98 | 111.30      | 118.94   |
| 25  | 3     | 214 | ZEX  | C19-C9-C8   | -4.98 | 110.24      | 118.08   |
| 17  | A     | 805 | CLA  | CMB-C2B-C3B | 4.98  | 133.99      | 124.68   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | A     | 848 | CLA  | CHB-C4A-NA  | 4.97  | 131.39      | 124.51   |
| 17  | 4     | 605 | CLA  | CMB-C2B-C1B | -4.96 | 120.84      | 128.46   |
| 17  | 1     | 610 | CLA  | CMB-C2B-C1B | -4.96 | 120.84      | 128.46   |
| 25  | 1     | 614 | ZEX  | C27-C28-C29 | 4.95  | 133.72      | 126.23   |
| 25  | 1     | 616 | ZEX  | C8-C9-C10   | -4.93 | 111.37      | 118.94   |
| 25  | 3     | 218 | ZEX  | C28-C29-C30 | -4.92 | 111.39      | 118.94   |
| 17  | A     | 848 | CLA  | CMB-C2B-C3B | 4.90  | 133.85      | 124.68   |
| 25  | 1     | 614 | ZEX  | C19-C9-C8   | -4.90 | 110.36      | 118.08   |
| 25  | 2     | 617 | ZEX  | C1-C6-C5    | -4.90 | 115.72      | 122.61   |
| 25  | 1     | 613 | ZEX  | C12-C13-C14 | -4.89 | 111.43      | 118.94   |
| 25  | 4     | 614 | ZEX  | C1-C6-C5    | -4.89 | 115.73      | 122.61   |
| 25  | 5     | 616 | ZEX  | C8-C9-C10   | -4.89 | 111.44      | 118.94   |
| 17  | A     | 804 | CLA  | CMB-C2B-C1B | -4.88 | 120.96      | 128.46   |
| 25  | 4     | 616 | ZEX  | C19-C9-C8   | -4.88 | 110.39      | 118.08   |
| 25  | 2     | 616 | ZEX  | C39-C29-C28 | -4.87 | 110.40      | 118.08   |
| 25  | 1     | 615 | ZEX  | C28-C27-C26 | -4.87 | 118.77      | 127.09   |
| 17  | A     | 802 | CLA  | CMB-C2B-C1B | -4.86 | 120.99      | 128.46   |
| 25  | 4     | 617 | ZEX  | C40-C33-C32 | -4.86 | 110.42      | 118.08   |
| 16  | A     | 801 | CL0  | CBC-CAC-C3C | -4.84 | 99.10       | 112.43   |
| 17  | A     | 817 | CLA  | CMB-C2B-C1B | -4.83 | 121.04      | 128.46   |
| 25  | 4     | 616 | ZEX  | C1-C6-C5    | -4.83 | 115.81      | 122.61   |
| 25  | 5     | 614 | ZEX  | C32-C33-C34 | -4.83 | 111.53      | 118.94   |
| 17  | 2     | 603 | CLA  | CMB-C2B-C1B | -4.82 | 121.05      | 128.46   |
| 17  | A     | 813 | CLA  | CMB-C2B-C1B | -4.81 | 121.07      | 128.46   |
| 25  | 2     | 615 | ZEX  | C40-C33-C32 | -4.80 | 110.52      | 118.08   |
| 17  | A     | 803 | CLA  | CMB-C2B-C1B | -4.80 | 121.09      | 128.46   |
| 25  | 5     | 614 | ZEX  | C7-C8-C9    | -4.78 | 119.02      | 126.23   |
| 17  | 5     | 607 | CLA  | CAC-C3C-C4C | 4.77  | 131.00      | 124.81   |
| 17  | 1     | 604 | CLA  | CMB-C2B-C1B | -4.77 | 121.13      | 128.46   |
| 17  | 1     | 609 | CLA  | CAA-C2A-C3A | -4.76 | 105.00      | 116.10   |
| 17  | 5     | 606 | CLA  | CMC-C2C-C1C | -4.74 | 117.81      | 125.04   |
| 25  | 1     | 616 | ZEX  | C28-C27-C26 | -4.74 | 118.99      | 127.09   |
| 25  | 4     | 614 | ZEX  | C27-C28-C29 | -4.74 | 119.07      | 126.23   |
| 25  | 1     | 617 | ZEX  | C8-C7-C6    | -4.74 | 113.89      | 127.20   |
| 17  | A     | 807 | CLA  | CMB-C2B-C1B | -4.74 | 121.19      | 128.46   |
| 17  | 1     | 601 | CLA  | CMB-C2B-C3B | 4.73  | 133.53      | 124.68   |
| 25  | 2     | 617 | ZEX  | C28-C27-C26 | -4.73 | 119.00      | 127.09   |
| 25  | 4     | 613 | ZEX  | C40-C33-C32 | -4.72 | 110.64      | 118.08   |
| 17  | A     | 812 | CLA  | CMB-C2B-C3B | 4.72  | 133.50      | 124.68   |
| 25  | 3     | 217 | ZEX  | C19-C9-C8   | -4.71 | 110.66      | 118.08   |
| 16  | A     | 801 | CL0  | C6-C5-C3    | -4.70 | 101.14      | 113.45   |
| 25  | 1     | 617 | ZEX  | C18-C5-C4   | -4.69 | 105.66      | 114.36   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | O     | 201 | CLA  | CMB-C2B-C1B | -4.69 | 121.26      | 128.46   |
| 25  | 5     | 616 | ZEX  | C28-C29-C30 | -4.68 | 111.75      | 118.94   |
| 25  | 5     | 615 | ZEX  | C1-C6-C5    | -4.67 | 116.04      | 122.61   |
| 17  | B     | 817 | CLA  | CMB-C2B-C1B | -4.66 | 121.30      | 128.46   |
| 25  | 3     | 201 | ZEX  | C27-C28-C29 | -4.66 | 119.20      | 126.23   |
| 25  | 4     | 617 | ZEX  | C27-C28-C29 | -4.65 | 119.20      | 126.23   |
| 25  | 2     | 615 | ZEX  | C18-C5-C4   | -4.65 | 105.74      | 114.36   |
| 17  | B     | 801 | CLA  | CHB-C4A-NA  | 4.64  | 130.93      | 124.51   |
| 17  | 5     | 608 | CLA  | CMB-C2B-C1B | -4.64 | 121.33      | 128.46   |
| 25  | 4     | 617 | ZEX  | C23-C24-C25 | 4.64  | 115.93      | 109.33   |
| 25  | 2     | 617 | ZEX  | C7-C6-C5    | -4.64 | 110.23      | 121.46   |
| 17  | 4     | 603 | CLA  | CMB-C2B-C1B | -4.59 | 121.40      | 128.46   |
| 17  | 5     | 607 | CLA  | C4A-NA-C1A  | 4.57  | 108.76      | 106.71   |
| 17  | B     | 807 | CLA  | CMB-C2B-C1B | -4.57 | 121.44      | 128.46   |
| 25  | 3     | 215 | ZEX  | C1-C6-C5    | -4.57 | 116.18      | 122.61   |
| 17  | B     | 814 | CLA  | CMD-C2D-C1D | -4.57 | 116.67      | 124.71   |
| 25  | 4     | 617 | ZEX  | C28-C27-C26 | -4.55 | 119.32      | 127.09   |
| 25  | 1     | 614 | ZEX  | C23-C24-C25 | 4.55  | 115.81      | 109.33   |
| 17  | 1     | 601 | CLA  | CHB-C4A-NA  | 4.55  | 130.80      | 124.51   |
| 17  | 2     | 609 | CLA  | CAA-C2A-C3A | -4.54 | 105.50      | 116.10   |
| 25  | 3     | 218 | ZEX  | C2-C3-C4    | 4.54  | 116.52      | 110.30   |
| 25  | 1     | 613 | ZEX  | C23-C24-C25 | 4.54  | 115.79      | 109.33   |
| 17  | A     | 802 | CLA  | CMB-C2B-C3B | 4.53  | 133.15      | 124.68   |
| 17  | 1     | 611 | CLA  | CAC-C3C-C2C | -4.53 | 119.79      | 127.53   |
| 17  | 5     | 602 | CLA  | CMB-C2B-C1B | -4.52 | 121.51      | 128.46   |
| 17  | 3     | 210 | CLA  | CAA-C2A-C3A | -4.52 | 105.55      | 116.10   |
| 17  | 5     | 609 | CLA  | CBC-CAC-C3C | 4.51  | 124.87      | 112.43   |
| 25  | 3     | 201 | ZEX  | C28-C27-C26 | -4.50 | 119.39      | 127.09   |
| 17  | 5     | 611 | CLA  | CMB-C2B-C1B | -4.50 | 121.55      | 128.46   |
| 25  | 3     | 201 | ZEX  | C32-C33-C34 | -4.49 | 112.05      | 118.94   |
| 25  | 4     | 613 | ZEX  | C19-C9-C8   | -4.49 | 111.00      | 118.08   |
| 17  | 5     | 610 | CLA  | CMB-C2B-C1B | -4.49 | 121.56      | 128.46   |
| 17  | B     | 816 | CLA  | CMB-C2B-C1B | -4.49 | 121.56      | 128.46   |
| 25  | 4     | 613 | ZEX  | C4-C5-C6    | -4.49 | 110.85      | 120.85   |
| 17  | 5     | 606 | CLA  | CMB-C2B-C1B | -4.49 | 121.57      | 128.46   |
| 17  | B     | 804 | CLA  | C4A-NA-C1A  | 4.48  | 108.72      | 106.71   |
| 17  | O     | 203 | CLA  | CAA-C2A-C3A | -4.47 | 105.66      | 116.10   |
| 25  | 1     | 613 | ZEX  | C27-C28-C29 | -4.46 | 119.50      | 126.23   |
| 17  | B     | 840 | CLA  | CMB-C2B-C3B | 4.46  | 133.02      | 124.68   |
| 17  | F     | 302 | CLA  | CMB-C2B-C1B | -4.44 | 121.63      | 128.46   |
| 25  | 3     | 214 | ZEX  | C40-C33-C32 | -4.44 | 111.08      | 118.08   |
| 25  | 5     | 615 | ZEX  | C28-C29-C30 | -4.44 | 112.13      | 118.94   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25  | 2     | 616 | ZEX  | C23-C24-C25 | 4.43  | 115.64      | 109.33   |
| 17  | 1     | 602 | CLA  | CMB-C2B-C3B | 4.41  | 132.94      | 124.68   |
| 17  | 3     | 209 | CLA  | CMB-C2B-C3B | 4.41  | 132.93      | 124.68   |
| 17  | A     | 830 | CLA  | CMB-C2B-C3B | 4.41  | 132.93      | 124.68   |
| 17  | B     | 814 | CLA  | CMB-C2B-C1B | -4.40 | 121.69      | 128.46   |
| 17  | 3     | 205 | CLA  | CMB-C2B-C1B | -4.40 | 121.71      | 128.46   |
| 17  | F     | 303 | CLA  | CAA-C2A-C3A | -4.39 | 105.86      | 116.10   |
| 17  | 4     | 608 | CLA  | CMB-C2B-C1B | -4.39 | 121.72      | 128.46   |
| 17  | A     | 836 | CLA  | CMB-C2B-C1B | -4.38 | 121.73      | 128.46   |
| 17  | B     | 827 | CLA  | CMB-C2B-C3B | 4.38  | 132.87      | 124.68   |
| 25  | 3     | 218 | ZEX  | C39-C29-C28 | -4.38 | 111.18      | 118.08   |
| 25  | 2     | 615 | ZEX  | C27-C28-C29 | -4.37 | 119.64      | 126.23   |
| 17  | A     | 802 | CLA  | CHB-C4A-NA  | 4.37  | 130.55      | 124.51   |
| 25  | 1     | 613 | ZEX  | C8-C9-C10   | -4.36 | 112.25      | 118.94   |
| 16  | A     | 801 | CL0  | C2C-C1C-NC  | 4.36  | 114.06      | 109.97   |
| 23  | B     | 851 | DGD  | O5D-C6D-C5D | -4.35 | 101.00      | 109.05   |
| 25  | 2     | 615 | ZEX  | C1-C6-C5    | -4.34 | 116.50      | 122.61   |
| 25  | 3     | 218 | ZEX  | C8-C9-C10   | -4.34 | 112.28      | 118.94   |
| 20  | B     | 850 | BCR  | C24-C23-C22 | -4.33 | 119.69      | 126.23   |
| 17  | A     | 815 | CLA  | CMB-C2B-C1B | -4.32 | 121.82      | 128.46   |
| 17  | 4     | 602 | CLA  | CAA-C2A-C3A | -4.32 | 100.95      | 112.78   |
| 25  | 3     | 214 | ZEX  | C7-C6-C5    | -4.32 | 111.00      | 121.46   |
| 25  | 2     | 615 | ZEX  | C39-C29-C28 | -4.31 | 111.29      | 118.08   |
| 25  | 1     | 616 | ZEX  | C7-C6-C5    | -4.30 | 111.04      | 121.46   |
| 25  | 3     | 218 | ZEX  | C16-C1-C6   | 4.29  | 117.26      | 110.30   |
| 17  | B     | 820 | CLA  | CMB-C2B-C1B | -4.29 | 121.87      | 128.46   |
| 25  | 2     | 614 | ZEX  | C1-C6-C5    | -4.29 | 116.57      | 122.61   |
| 25  | 2     | 616 | ZEX  | C28-C27-C26 | -4.28 | 119.78      | 127.09   |
| 17  | B     | 828 | CLA  | CMB-C2B-C3B | 4.27  | 132.66      | 124.68   |
| 25  | 3     | 217 | ZEX  | C40-C33-C32 | -4.27 | 111.35      | 118.08   |
| 17  | B     | 806 | CLA  | CHB-C4A-NA  | 4.27  | 130.41      | 124.51   |
| 17  | A     | 809 | CLA  | CMB-C2B-C1B | -4.26 | 121.91      | 128.46   |
| 25  | 4     | 615 | ZEX  | C39-C29-C28 | -4.25 | 111.37      | 118.08   |
| 17  | A     | 837 | CLA  | CMB-C2B-C3B | 4.25  | 132.63      | 124.68   |
| 25  | 5     | 616 | ZEX  | C27-C28-C29 | -4.24 | 119.83      | 126.23   |
| 17  | B     | 838 | CLA  | CAC-C3C-C4C | 4.24  | 130.31      | 124.81   |
| 17  | 4     | 602 | CLA  | CMB-C2B-C1B | -4.23 | 121.96      | 128.46   |
| 25  | 4     | 612 | ZEX  | C18-C5-C4   | -4.23 | 106.51      | 114.36   |
| 17  | A     | 833 | CLA  | CMB-C2B-C1B | -4.22 | 121.97      | 128.46   |
| 25  | 3     | 214 | ZEX  | C1-C6-C5    | -4.22 | 116.67      | 122.61   |
| 17  | A     | 825 | CLA  | CMB-C2B-C1B | -4.22 | 121.98      | 128.46   |
| 19  | A     | 841 | LHG  | O4-P-O5     | 4.22  | 133.09      | 112.24   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 20  | B     | 849 | BCR  | C24-C23-C22 | -4.21 | 119.87      | 126.23   |
| 17  | 5     | 606 | CLA  | CMB-C2B-C3B | 4.21  | 132.56      | 124.68   |
| 25  | 4     | 617 | ZEX  | C7-C8-C9    | -4.21 | 119.88      | 126.23   |
| 20  | K     | 104 | BCR  | C2-C1-C6    | 4.20  | 116.95      | 110.48   |
| 25  | 5     | 617 | ZEX  | C12-C13-C14 | -4.19 | 112.51      | 118.94   |
| 17  | 1     | 611 | CLA  | CBC-CAC-C3C | 4.19  | 123.97      | 112.43   |
| 17  | A     | 819 | CLA  | CMB-C2B-C3B | 4.19  | 132.51      | 124.68   |
| 25  | 1     | 614 | ZEX  | C40-C33-C32 | -4.19 | 111.48      | 118.08   |
| 25  | 3     | 201 | ZEX  | C8-C9-C10   | -4.18 | 112.53      | 118.94   |
| 17  | 4     | 605 | CLA  | CMB-C2B-C3B | 4.18  | 132.49      | 124.68   |
| 17  | B     | 812 | CLA  | CMB-C2B-C1B | -4.18 | 122.05      | 128.46   |
| 17  | A     | 834 | CLA  | CMB-C2B-C1B | -4.17 | 122.06      | 128.46   |
| 17  | J     | 101 | CLA  | CMB-C2B-C1B | -4.17 | 122.06      | 128.46   |
| 19  | A     | 842 | LHG  | O4-P-O5     | 4.17  | 132.84      | 112.24   |
| 17  | A     | 813 | CLA  | CMB-C2B-C3B | 4.16  | 132.46      | 124.68   |
| 17  | 2     | 603 | CLA  | CMB-C2B-C3B | 4.15  | 132.44      | 124.68   |
| 17  | B     | 829 | CLA  | CMB-C2B-C1B | -4.14 | 122.10      | 128.46   |
| 25  | 2     | 614 | ZEX  | C7-C6-C5    | -4.14 | 111.43      | 121.46   |
| 17  | A     | 828 | CLA  | CMB-C2B-C3B | 4.13  | 132.40      | 124.68   |
| 17  | B     | 804 | CLA  | CMD-C2D-C1D | -4.13 | 117.44      | 124.71   |
| 25  | 5     | 614 | ZEX  | C1-C6-C5    | -4.12 | 116.81      | 122.61   |
| 25  | 3     | 215 | ZEX  | C23-C24-C25 | 4.12  | 115.19      | 109.33   |
| 17  | B     | 817 | CLA  | CMB-C2B-C3B | 4.11  | 132.37      | 124.68   |
| 25  | 2     | 617 | ZEX  | C7-C8-C9    | -4.11 | 120.02      | 126.23   |
| 17  | B     | 803 | CLA  | CMB-C2B-C1B | -4.11 | 122.14      | 128.46   |
| 17  | 2     | 604 | CLA  | CMB-C2B-C1B | -4.11 | 122.14      | 128.46   |
| 17  | 4     | 603 | CLA  | CMB-C2B-C3B | 4.11  | 132.37      | 124.68   |
| 25  | 3     | 216 | ZEX  | C7-C6-C5    | -4.11 | 111.52      | 121.46   |
| 17  | A     | 804 | CLA  | CMB-C2B-C3B | 4.10  | 132.35      | 124.68   |
| 25  | 4     | 615 | ZEX  | C8-C9-C10   | -4.10 | 112.65      | 118.94   |
| 25  | 5     | 617 | ZEX  | C40-C33-C32 | -4.09 | 111.64      | 118.08   |
| 17  | B     | 802 | CLA  | C2D-C1D-ND  | -4.08 | 107.09      | 110.10   |
| 16  | A     | 801 | CL0  | C11-C10-C8  | -4.08 | 102.72      | 115.92   |
| 17  | A     | 818 | CLA  | CMB-C2B-C1B | -4.08 | 122.19      | 128.46   |
| 17  | A     | 827 | CLA  | C4A-NA-C1A  | 4.08  | 108.54      | 106.71   |
| 25  | 5     | 615 | ZEX  | C7-C6-C5    | -4.08 | 111.59      | 121.46   |
| 17  | B     | 819 | CLA  | CMB-C2B-C1B | -4.07 | 122.21      | 128.46   |
| 17  | 3     | 206 | CLA  | CMB-C2B-C3B | 4.07  | 132.29      | 124.68   |
| 18  | A     | 840 | PQN  | C14-C13-C15 | -4.07 | 108.43      | 115.27   |
| 25  | 1     | 615 | ZEX  | C40-C33-C32 | -4.07 | 111.67      | 118.08   |
| 25  | 3     | 215 | ZEX  | C18-C5-C4   | -4.06 | 106.83      | 114.36   |
| 17  | 1     | 604 | CLA  | CMB-C2B-C3B | 4.06  | 132.27      | 124.68   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | 5     | 609 | CLA  | CAA-C2A-C3A | -4.05 | 106.64      | 116.10   |
| 17  | B     | 834 | CLA  | CMB-C2B-C3B | 4.05  | 132.26      | 124.68   |
| 17  | 2     | 610 | CLA  | CAA-C2A-C3A | -4.04 | 104.16      | 114.26   |
| 17  | B     | 814 | CLA  | CMD-C2D-C3D | 4.03  | 136.90      | 127.61   |
| 25  | 4     | 616 | ZEX  | C40-C33-C32 | -4.03 | 111.73      | 118.08   |
| 25  | 3     | 215 | ZEX  | C27-C28-C29 | -4.03 | 120.15      | 126.23   |
| 17  | 1     | 612 | CLA  | CMB-C2B-C1B | -4.03 | 122.27      | 128.46   |
| 25  | 4     | 615 | ZEX  | C19-C9-C8   | -4.03 | 111.73      | 118.08   |
| 16  | A     | 801 | CL0  | CMB-C2B-C3B | 4.02  | 132.20      | 124.68   |
| 25  | 3     | 218 | ZEX  | C8-C7-C6    | -4.02 | 115.91      | 127.20   |
| 17  | B     | 832 | CLA  | C2D-C1D-ND  | -4.02 | 107.14      | 110.10   |
| 25  | 1     | 613 | ZEX  | C28-C27-C26 | -4.02 | 120.22      | 127.09   |
| 17  | 5     | 613 | CLA  | CMB-C2B-C1B | -4.02 | 122.29      | 128.46   |
| 17  | 5     | 601 | CLA  | CMB-C2B-C1B | -4.02 | 122.29      | 128.46   |
| 25  | 5     | 616 | ZEX  | C7-C6-C5    | -4.01 | 111.74      | 121.46   |
| 17  | A     | 838 | CLA  | CMB-C2B-C1B | -4.01 | 122.30      | 128.46   |
| 17  | A     | 831 | CLA  | CMB-C2B-C1B | -4.01 | 122.30      | 128.46   |
| 25  | 2     | 614 | ZEX  | C28-C27-C26 | -4.00 | 120.26      | 127.09   |
| 17  | O     | 201 | CLA  | CMB-C2B-C3B | 3.99  | 132.15      | 124.68   |
| 25  | 3     | 218 | ZEX  | C1-C6-C5    | -3.99 | 116.99      | 122.61   |
| 17  | A     | 826 | CLA  | CMB-C2B-C1B | -3.99 | 122.33      | 128.46   |
| 17  | A     | 826 | CLA  | CMB-C2B-C3B | 3.97  | 132.11      | 124.68   |
| 17  | 3     | 208 | CLA  | CMB-C2B-C1B | -3.97 | 122.36      | 128.46   |
| 17  | 3     | 211 | CLA  | CMB-C2B-C1B | -3.96 | 122.37      | 128.46   |
| 25  | 3     | 201 | ZEX  | C28-C29-C30 | -3.96 | 112.86      | 118.94   |
| 17  | B     | 821 | CLA  | CMB-C2B-C3B | 3.96  | 132.09      | 124.68   |
| 17  | B     | 806 | CLA  | CMA-C3A-C4A | -3.95 | 101.16      | 111.77   |
| 17  | A     | 803 | CLA  | CAA-CBA-CGA | -3.95 | 101.72      | 113.25   |
| 25  | 4     | 614 | ZEX  | C7-C6-C5    | -3.94 | 111.92      | 121.46   |
| 25  | 3     | 216 | ZEX  | C23-C24-C25 | 3.94  | 114.94      | 109.33   |
| 25  | 3     | 216 | ZEX  | C38-C24-C23 | -3.94 | 106.11      | 112.20   |
| 20  | L     | 205 | BCR  | C24-C23-C22 | -3.94 | 120.28      | 126.23   |
| 25  | 2     | 617 | ZEX  | C8-C7-C6    | -3.94 | 116.15      | 127.20   |
| 17  | L     | 203 | CLA  | CMB-C2B-C1B | -3.93 | 122.42      | 128.46   |
| 17  | B     | 841 | CLA  | CMB-C2B-C1B | -3.93 | 122.42      | 128.46   |
| 17  | A     | 803 | CLA  | CMB-C2B-C3B | 3.93  | 132.03      | 124.68   |
| 17  | B     | 811 | CLA  | CHB-C4A-NA  | 3.93  | 129.94      | 124.51   |
| 17  | B     | 815 | CLA  | CMB-C2B-C1B | -3.91 | 122.45      | 128.46   |
| 17  | A     | 848 | CLA  | CAA-C2A-C3A | -3.91 | 102.07      | 112.78   |
| 17  | B     | 816 | CLA  | CMB-C2B-C3B | 3.91  | 131.99      | 124.68   |
| 16  | A     | 801 | CL0  | CGD-CBD-CAD | -3.91 | 98.08       | 110.73   |
| 16  | A     | 801 | CL0  | O1D-CGD-CBD | -3.90 | 116.50      | 124.48   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25  | 2     | 615 | ZEX  | C7-C6-C5    | -3.90 | 112.01      | 121.46   |
| 17  | B     | 807 | CLA  | CMB-C2B-C3B | 3.90  | 131.98      | 124.68   |
| 25  | 3     | 214 | ZEX  | C18-C5-C4   | -3.90 | 107.13      | 114.36   |
| 17  | 4     | 607 | CLA  | CHB-C4A-NA  | 3.89  | 129.90      | 124.51   |
| 17  | 1     | 609 | CLA  | CMB-C2B-C1B | -3.89 | 122.48      | 128.46   |
| 17  | 3     | 204 | CLA  | CMB-C2B-C1B | -3.89 | 122.48      | 128.46   |
| 17  | 1     | 610 | CLA  | CMB-C2B-C3B | 3.89  | 131.96      | 124.68   |
| 25  | 3     | 214 | ZEX  | C38-C24-C23 | -3.88 | 106.20      | 112.20   |
| 25  | 1     | 614 | ZEX  | C18-C5-C4   | -3.87 | 107.18      | 114.36   |
| 17  | 2     | 612 | CLA  | CMB-C2B-C1B | -3.87 | 122.51      | 128.46   |
| 17  | 5     | 608 | CLA  | CMB-C2B-C3B | 3.87  | 131.92      | 124.68   |
| 25  | 1     | 615 | ZEX  | C7-C6-C5    | -3.87 | 112.09      | 121.46   |
| 25  | 4     | 613 | ZEX  | C2-C3-C4    | 3.86  | 115.58      | 110.30   |
| 25  | 3     | 218 | ZEX  | C32-C33-C34 | -3.85 | 113.03      | 118.94   |
| 17  | 4     | 609 | CLA  | CMB-C2B-C1B | -3.85 | 122.55      | 128.46   |
| 17  | A     | 807 | CLA  | CMB-C2B-C3B | 3.84  | 131.86      | 124.68   |
| 25  | 1     | 613 | ZEX  | C4-C5-C6    | -3.83 | 112.31      | 120.85   |
| 17  | F     | 301 | CLA  | CAA-C2A-C3A | -3.83 | 102.28      | 112.78   |
| 17  | 5     | 610 | CLA  | CMB-C2B-C3B | 3.83  | 131.84      | 124.68   |
| 25  | 4     | 617 | ZEX  | C7-C6-C5    | -3.82 | 112.20      | 121.46   |
| 25  | 1     | 617 | ZEX  | C27-C28-C29 | -3.82 | 120.47      | 126.23   |
| 17  | 1     | 607 | CLA  | C2D-C1D-ND  | -3.81 | 107.29      | 110.10   |
| 25  | 4     | 616 | ZEX  | C7-C6-C5    | -3.81 | 112.23      | 121.46   |
| 17  | B     | 813 | CLA  | CMB-C2B-C1B | -3.81 | 122.61      | 128.46   |
| 25  | 2     | 614 | ZEX  | C18-C5-C4   | -3.81 | 107.30      | 114.36   |
| 17  | 3     | 203 | CLA  | CAA-C2A-C3A | -3.80 | 102.36      | 112.78   |
| 25  | 3     | 214 | ZEX  | C23-C24-C25 | 3.79  | 114.73      | 109.33   |
| 17  | A     | 826 | CLA  | CHB-C4A-NA  | 3.79  | 129.75      | 124.51   |
| 25  | 2     | 615 | ZEX  | C28-C27-C26 | -3.78 | 120.62      | 127.09   |
| 17  | 5     | 611 | CLA  | CMB-C2B-C3B | 3.78  | 131.76      | 124.68   |
| 17  | 4     | 602 | CLA  | CMB-C2B-C3B | 3.78  | 131.74      | 124.68   |
| 17  | A     | 827 | CLA  | CMB-C2B-C3B | 3.78  | 131.74      | 124.68   |
| 25  | 4     | 612 | ZEX  | C35-C15-C14 | -3.77 | 115.75      | 123.47   |
| 17  | B     | 839 | CLA  | CMB-C2B-C1B | -3.77 | 122.67      | 128.46   |
| 25  | 4     | 612 | ZEX  | C28-C27-C26 | -3.77 | 120.65      | 127.09   |
| 17  | B     | 806 | CLA  | CMA-C3A-C2A | -3.77 | 98.64       | 113.83   |
| 25  | 2     | 616 | ZEX  | C7-C6-C5    | -3.76 | 112.35      | 121.46   |
| 17  | A     | 819 | CLA  | CHB-C4A-NA  | 3.76  | 129.71      | 124.51   |
| 17  | B     | 814 | CLA  | CAB-C3B-C4B | -3.75 | 122.70      | 128.46   |
| 25  | 3     | 217 | ZEX  | C7-C6-C5    | -3.75 | 112.38      | 121.46   |
| 20  | I     | 101 | BCR  | C15-C16-C17 | -3.75 | 115.80      | 123.47   |
| 25  | 5     | 614 | ZEX  | C7-C6-C5    | -3.75 | 112.38      | 121.46   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | A     | 816 | CLA  | CMB-C2B-C1B | -3.75 | 122.70      | 128.46   |
| 25  | 1     | 615 | ZEX  | C27-C28-C29 | -3.75 | 120.58      | 126.23   |
| 17  | 3     | 210 | CLA  | CMB-C2B-C1B | -3.74 | 122.71      | 128.46   |
| 17  | A     | 832 | CLA  | CHB-C4A-NA  | 3.74  | 129.69      | 124.51   |
| 17  | B     | 843 | CLA  | CMB-C2B-C1B | -3.74 | 122.71      | 128.46   |
| 17  | B     | 808 | CLA  | CHB-C4A-NA  | 3.74  | 129.68      | 124.51   |
| 17  | O     | 203 | CLA  | CMB-C2B-C1B | -3.74 | 122.72      | 128.46   |
| 17  | 4     | 609 | CLA  | CAA-C2A-C3A | -3.73 | 107.40      | 116.10   |
| 25  | 5     | 615 | ZEX  | C31-C32-C33 | -3.73 | 115.95      | 126.42   |
| 17  | A     | 820 | CLA  | CMB-C2B-C1B | -3.73 | 122.74      | 128.46   |
| 17  | A     | 832 | CLA  | O2D-CGD-O1D | -3.71 | 116.58      | 123.84   |
| 17  | 4     | 607 | CLA  | CMB-C2B-C1B | -3.71 | 122.76      | 128.46   |
| 17  | B     | 818 | CLA  | CMB-C2B-C1B | -3.71 | 122.76      | 128.46   |
| 25  | 4     | 616 | ZEX  | C28-C27-C26 | -3.71 | 120.75      | 127.09   |
| 17  | A     | 825 | CLA  | CMB-C2B-C3B | 3.71  | 131.62      | 124.68   |
| 25  | 5     | 617 | ZEX  | C4-C5-C6    | -3.70 | 112.60      | 120.85   |
| 17  | 1     | 603 | CLA  | CMB-C2B-C1B | -3.70 | 122.78      | 128.46   |
| 17  | A     | 802 | CLA  | CMA-C3A-C4A | -3.70 | 101.83      | 111.77   |
| 17  | 3     | 207 | CLA  | CMB-C2B-C1B | -3.70 | 122.78      | 128.46   |
| 17  | A     | 815 | CLA  | CMB-C2B-C3B | 3.69  | 131.59      | 124.68   |
| 20  | L     | 205 | BCR  | C2-C1-C6    | 3.69  | 116.16      | 110.48   |
| 25  | 5     | 615 | ZEX  | C28-C27-C26 | -3.69 | 120.79      | 127.09   |
| 25  | 5     | 616 | ZEX  | C23-C24-C25 | 3.69  | 114.58      | 109.33   |
| 17  | F     | 301 | CLA  | CMB-C2B-C1B | -3.68 | 122.80      | 128.46   |
| 17  | 1     | 605 | CLA  | CMB-C2B-C1B | -3.68 | 122.81      | 128.46   |
| 25  | 5     | 614 | ZEX  | C18-C5-C4   | -3.68 | 107.54      | 114.36   |
| 25  | 2     | 616 | ZEX  | C38-C24-C23 | -3.67 | 106.53      | 112.20   |
| 17  | A     | 809 | CLA  | CAA-C2A-C3A | -3.67 | 102.73      | 112.78   |
| 25  | 1     | 613 | ZEX  | C8-C7-C6    | -3.67 | 116.90      | 127.20   |
| 17  | 2     | 604 | CLA  | CMB-C2B-C3B | 3.66  | 131.53      | 124.68   |
| 17  | B     | 802 | CLA  | C1D-ND-C4D  | 3.66  | 108.94      | 106.33   |
| 17  | K     | 103 | CLA  | CMB-C2B-C1B | -3.66 | 122.84      | 128.46   |
| 17  | B     | 829 | CLA  | CMB-C2B-C3B | 3.66  | 131.52      | 124.68   |
| 17  | B     | 803 | CLA  | CHB-C4A-NA  | 3.65  | 129.57      | 124.51   |
| 25  | 5     | 617 | ZEX  | C28-C27-C26 | -3.65 | 120.85      | 127.09   |
| 17  | 4     | 608 | CLA  | CMB-C2B-C3B | 3.65  | 131.51      | 124.68   |
| 25  | 1     | 615 | ZEX  | C15-C35-C34 | -3.65 | 116.00      | 123.47   |
| 25  | 1     | 615 | ZEX  | C18-C5-C4   | -3.64 | 107.61      | 114.36   |
| 17  | B     | 804 | CLA  | CMD-C2D-C3D | 3.64  | 135.99      | 127.61   |
| 17  | 2     | 607 | CLA  | CMB-C2B-C1B | -3.64 | 122.87      | 128.46   |
| 17  | B     | 819 | CLA  | CMB-C2B-C3B | 3.63  | 131.48      | 124.68   |
| 17  | B     | 836 | CLA  | CHB-C4A-NA  | 3.63  | 129.53      | 124.51   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25  | 3     | 218 | ZEX  | C7-C6-C5    | -3.62 | 112.69      | 121.46   |
| 17  | B     | 823 | CLA  | CMB-C2B-C1B | -3.62 | 122.91      | 128.46   |
| 17  | B     | 833 | CLA  | CMB-C2B-C1B | -3.61 | 122.91      | 128.46   |
| 17  | 5     | 602 | CLA  | CMB-C2B-C3B | 3.60  | 131.41      | 124.68   |
| 16  | A     | 801 | CL0  | CMD-C2D-C1D | 3.60  | 131.05      | 124.71   |
| 25  | 3     | 215 | ZEX  | C8-C7-C6    | -3.59 | 117.11      | 127.20   |
| 17  | A     | 824 | CLA  | CMB-C2B-C1B | -3.59 | 122.95      | 128.46   |
| 17  | A     | 810 | CLA  | CMB-C2B-C1B | -3.58 | 122.96      | 128.46   |
| 17  | K     | 102 | CLA  | CMB-C2B-C1B | -3.58 | 122.97      | 128.46   |
| 17  | 5     | 606 | CLA  | CHB-C4A-NA  | 3.58  | 129.46      | 124.51   |
| 23  | B     | 851 | DGD  | O3G-C3G-C2G | -3.57 | 102.28      | 110.90   |
| 17  | 3     | 202 | CLA  | CMB-C2B-C1B | -3.57 | 122.97      | 128.46   |
| 17  | 3     | 203 | CLA  | CHB-C4A-NA  | 3.57  | 129.45      | 124.51   |
| 17  | 4     | 601 | CLA  | CHB-C4A-NA  | 3.57  | 129.44      | 124.51   |
| 17  | B     | 802 | CLA  | C1B-CHB-C4A | -3.56 | 123.06      | 130.12   |
| 17  | A     | 822 | CLA  | CMB-C2B-C1B | -3.56 | 122.99      | 128.46   |
| 25  | 1     | 617 | ZEX  | C11-C12-C13 | -3.56 | 116.42      | 126.42   |
| 20  | L     | 201 | BCR  | C15-C16-C17 | -3.56 | 116.19      | 123.47   |
| 17  | A     | 833 | CLA  | CMB-C2B-C3B | 3.55  | 131.32      | 124.68   |
| 17  | 5     | 605 | CLA  | CMB-C2B-C1B | -3.55 | 123.01      | 128.46   |
| 25  | 4     | 615 | ZEX  | C7-C6-C5    | -3.55 | 112.87      | 121.46   |
| 17  | A     | 805 | CLA  | CAA-C2A-C3A | -3.54 | 103.07      | 112.78   |
| 20  | K     | 101 | BCR  | C15-C16-C17 | -3.54 | 116.22      | 123.47   |
| 17  | J     | 101 | CLA  | CMB-C2B-C3B | 3.54  | 131.30      | 124.68   |
| 17  | A     | 820 | CLA  | O2D-CGD-O1D | -3.54 | 116.92      | 123.84   |
| 25  | 1     | 614 | ZEX  | C11-C12-C13 | -3.54 | 116.48      | 126.42   |
| 17  | 5     | 601 | CLA  | CMB-C2B-C3B | 3.53  | 131.29      | 124.68   |
| 20  | B     | 849 | BCR  | C2-C1-C6    | 3.53  | 115.92      | 110.48   |
| 17  | A     | 848 | CLA  | O2D-CGD-CBD | 3.53  | 117.55      | 111.27   |
| 17  | O     | 204 | CLA  | CMB-C2B-C1B | -3.53 | 123.04      | 128.46   |
| 17  | 1     | 607 | CLA  | CAA-C2A-C3A | -3.53 | 103.11      | 112.78   |
| 17  | 2     | 608 | CLA  | CHB-C4A-NA  | 3.53  | 129.39      | 124.51   |
| 17  | 2     | 601 | CLA  | O2D-CGD-O1D | -3.52 | 116.96      | 123.84   |
| 25  | 5     | 617 | ZEX  | C11-C12-C13 | -3.52 | 116.54      | 126.42   |
| 17  | A     | 806 | CLA  | CMB-C2B-C1B | -3.51 | 123.06      | 128.46   |
| 17  | 3     | 205 | CLA  | CMB-C2B-C3B | 3.51  | 131.24      | 124.68   |
| 25  | 2     | 615 | ZEX  | C7-C8-C9    | -3.51 | 120.94      | 126.23   |
| 17  | 3     | 212 | CLA  | CMB-C2B-C1B | -3.50 | 123.08      | 128.46   |
| 17  | 5     | 609 | CLA  | O2D-CGD-O1D | -3.49 | 117.01      | 123.84   |
| 17  | 1     | 607 | CLA  | CMB-C2B-C1B | -3.49 | 123.11      | 128.46   |
| 17  | B     | 806 | CLA  | C2A-C3A-C4A | 3.49  | 107.50      | 101.87   |
| 17  | A     | 821 | CLA  | CMB-C2B-C1B | -3.48 | 123.11      | 128.46   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | B     | 806 | CLA  | O2D-CGD-O1D | -3.48 | 117.03      | 123.84   |
| 17  | 4     | 604 | CLA  | CMB-C2B-C1B | -3.48 | 123.12      | 128.46   |
| 17  | B     | 803 | CLA  | CMB-C2B-C3B | 3.47  | 131.18      | 124.68   |
| 17  | B     | 835 | CLA  | CHB-C4A-NA  | 3.47  | 129.31      | 124.51   |
| 17  | 3     | 208 | CLA  | CMB-C2B-C3B | 3.47  | 131.18      | 124.68   |
| 17  | 5     | 609 | CLA  | CMC-C2C-C1C | -3.47 | 119.75      | 125.04   |
| 17  | 2     | 605 | CLA  | CMB-C2B-C1B | -3.47 | 123.13      | 128.46   |
| 25  | 1     | 614 | ZEX  | C38-C24-C23 | -3.47 | 106.84      | 112.20   |
| 25  | 3     | 217 | ZEX  | C8-C7-C6    | -3.47 | 117.47      | 127.20   |
| 17  | 2     | 613 | CLA  | CMB-C2B-C1B | -3.47 | 123.14      | 128.46   |
| 20  | A     | 845 | BCR  | C11-C10-C9  | -3.46 | 122.36      | 127.31   |
| 17  | 5     | 613 | CLA  | CBD-CHA-C1A | 3.46  | 132.97      | 127.43   |
| 20  | J     | 105 | BCR  | C24-C23-C22 | -3.46 | 121.01      | 126.23   |
| 17  | A     | 832 | CLA  | CMC-C2C-C1C | -3.46 | 119.78      | 125.04   |
| 17  | A     | 809 | CLA  | CMB-C2B-C3B | 3.45  | 131.14      | 124.68   |
| 17  | A     | 803 | CLA  | CHB-C4A-NA  | 3.45  | 129.29      | 124.51   |
| 25  | 4     | 613 | ZEX  | C8-C9-C10   | -3.45 | 113.64      | 118.94   |
| 17  | 2     | 604 | CLA  | CAA-C2A-C3A | -3.45 | 105.64      | 114.26   |
| 17  | A     | 848 | CLA  | CAC-C3C-C2C | -3.45 | 121.63      | 127.53   |
| 17  | J     | 101 | CLA  | O2D-CGD-O1D | -3.45 | 117.09      | 123.84   |
| 17  | B     | 819 | CLA  | CHB-C4A-NA  | 3.44  | 129.27      | 124.51   |
| 17  | B     | 829 | CLA  | CHB-C4A-NA  | 3.44  | 129.27      | 124.51   |
| 17  | B     | 804 | CLA  | CMA-C3A-C4A | -3.44 | 102.52      | 111.77   |
| 17  | 1     | 611 | CLA  | CMB-C2B-C1B | -3.44 | 123.17      | 128.46   |
| 17  | A     | 839 | CLA  | CMB-C2B-C1B | -3.44 | 123.18      | 128.46   |
| 20  | O     | 202 | BCR  | C24-C23-C22 | -3.43 | 121.05      | 126.23   |
| 17  | 1     | 612 | CLA  | CMB-C2B-C3B | 3.43  | 131.10      | 124.68   |
| 17  | B     | 825 | CLA  | CMB-C2B-C1B | -3.43 | 123.19      | 128.46   |
| 17  | 5     | 606 | CLA  | CMC-C2C-C3C | 3.42  | 135.41      | 126.12   |
| 25  | 3     | 201 | ZEX  | C4-C5-C6    | -3.42 | 113.22      | 120.85   |
| 17  | A     | 822 | CLA  | CAA-C2A-C3A | -3.42 | 103.41      | 112.78   |
| 18  | B     | 844 | PQN  | C14-C13-C15 | -3.42 | 109.52      | 115.27   |
| 17  | 5     | 612 | CLA  | O2D-CGD-O1D | -3.42 | 117.15      | 123.84   |
| 17  | 2     | 610 | CLA  | CHB-C4A-NA  | 3.42  | 129.24      | 124.51   |
| 17  | 2     | 606 | CLA  | CMB-C2B-C1B | -3.42 | 123.21      | 128.46   |
| 17  | B     | 804 | CLA  | CMB-C2B-C1B | -3.42 | 123.22      | 128.46   |
| 17  | A     | 807 | CLA  | O2D-CGD-O1D | -3.41 | 117.17      | 123.84   |
| 25  | 4     | 614 | ZEX  | C7-C8-C9    | -3.41 | 121.08      | 126.23   |
| 17  | B     | 816 | CLA  | CAA-C2A-C3A | -3.41 | 103.44      | 112.78   |
| 16  | A     | 801 | CL0  | O2A-C1-C2   | 3.41  | 117.59      | 108.64   |
| 17  | A     | 816 | CLA  | CHB-C4A-NA  | 3.41  | 129.22      | 124.51   |
| 17  | 5     | 603 | CLA  | CHB-C4A-NA  | 3.41  | 129.22      | 124.51   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 16  | A     | 801 | CL0  | C3B-C4B-NB  | 3.41  | 113.62      | 109.21   |
| 17  | 2     | 611 | CLA  | CBC-CAC-C3C | 3.41  | 121.83      | 112.43   |
| 17  | 2     | 602 | CLA  | CMB-C2B-C1B | -3.41 | 123.23      | 128.46   |
| 17  | 2     | 604 | CLA  | CHB-C4A-NA  | 3.40  | 129.22      | 124.51   |
| 17  | B     | 817 | CLA  | CHB-C4A-NA  | 3.40  | 129.21      | 124.51   |
| 17  | J     | 103 | CLA  | CAA-C2A-C3A | -3.40 | 105.77      | 114.26   |
| 17  | B     | 802 | CLA  | C4A-NA-C1A  | 3.39  | 108.23      | 106.71   |
| 17  | B     | 832 | CLA  | O2D-CGD-O1D | -3.39 | 117.21      | 123.84   |
| 17  | 2     | 611 | CLA  | CMB-C2B-C1B | -3.39 | 123.25      | 128.46   |
| 17  | B     | 837 | CLA  | CHB-C4A-NA  | 3.39  | 129.20      | 124.51   |
| 25  | 5     | 614 | ZEX  | C38-C24-C25 | -3.39 | 105.48      | 110.87   |
| 25  | 1     | 616 | ZEX  | C27-C28-C29 | -3.38 | 121.12      | 126.23   |
| 25  | 5     | 614 | ZEX  | C23-C24-C25 | 3.38  | 114.15      | 109.33   |
| 17  | F     | 303 | CLA  | CMB-C2B-C1B | -3.38 | 123.28      | 128.46   |
| 17  | B     | 814 | CLA  | CAB-C3B-C2B | 3.37  | 131.29      | 124.69   |
| 17  | A     | 838 | CLA  | CMB-C2B-C3B | 3.37  | 130.98      | 124.68   |
| 25  | 5     | 617 | ZEX  | C8-C9-C10   | -3.37 | 113.77      | 118.94   |
| 17  | 2     | 609 | CLA  | CMB-C2B-C1B | -3.36 | 123.29      | 128.46   |
| 25  | 2     | 615 | ZEX  | C37-C21-C26 | -3.36 | 104.84      | 110.30   |
| 17  | B     | 837 | CLA  | CMB-C2B-C1B | -3.36 | 123.29      | 128.46   |
| 16  | A     | 801 | CL0  | CAA-C2A-C3A | 3.36  | 121.98      | 112.78   |
| 25  | 2     | 617 | ZEX  | C18-C5-C4   | -3.36 | 108.13      | 114.36   |
| 17  | L     | 204 | CLA  | CMB-C2B-C1B | -3.36 | 123.31      | 128.46   |
| 17  | 2     | 605 | CLA  | CHB-C4A-NA  | 3.35  | 129.15      | 124.51   |
| 17  | A     | 836 | CLA  | O2D-CGD-O1D | -3.35 | 117.28      | 123.84   |
| 20  | L     | 205 | BCR  | C39-C30-C25 | 3.35  | 115.74      | 110.30   |
| 17  | A     | 833 | CLA  | CAA-C2A-C3A | -3.35 | 103.61      | 112.78   |
| 25  | 4     | 616 | ZEX  | C8-C7-C6    | -3.35 | 117.80      | 127.20   |
| 17  | B     | 820 | CLA  | CMB-C2B-C3B | 3.34  | 130.93      | 124.68   |
| 25  | 3     | 217 | ZEX  | C18-C5-C4   | -3.34 | 108.17      | 114.36   |
| 25  | 5     | 615 | ZEX  | C23-C24-C25 | 3.34  | 114.09      | 109.33   |
| 17  | A     | 812 | CLA  | O2D-CGD-O1D | -3.34 | 117.32      | 123.84   |
| 25  | 1     | 614 | ZEX  | C31-C32-C33 | -3.33 | 117.07      | 126.42   |
| 17  | A     | 816 | CLA  | CMB-C2B-C3B | 3.33  | 130.91      | 124.68   |
| 17  | 4     | 606 | CLA  | CAC-C3C-C4C | 3.33  | 129.13      | 124.81   |
| 17  | A     | 833 | CLA  | CHB-C4A-NA  | 3.33  | 129.11      | 124.51   |
| 17  | O     | 205 | CLA  | CMB-C2B-C1B | -3.32 | 123.35      | 128.46   |
| 17  | J     | 103 | CLA  | CMB-C2B-C1B | -3.32 | 123.36      | 128.46   |
| 17  | J     | 103 | CLA  | CHB-C4A-NA  | 3.32  | 129.11      | 124.51   |
| 17  | 5     | 604 | CLA  | CMB-C2B-C1B | -3.32 | 123.36      | 128.46   |
| 17  | 5     | 603 | CLA  | O2D-CGD-O1D | -3.32 | 117.34      | 123.84   |
| 17  | A     | 824 | CLA  | CMB-C2B-C3B | 3.32  | 130.89      | 124.68   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | F     | 302 | CLA  | CMB-C2B-C3B | 3.32  | 130.88      | 124.68   |
| 17  | B     | 804 | CLA  | CHB-C4A-NA  | 3.31  | 129.09      | 124.51   |
| 25  | 4     | 613 | ZEX  | C7-C8-C9    | -3.31 | 121.23      | 126.23   |
| 17  | 1     | 609 | CLA  | CMB-C2B-C3B | 3.31  | 130.87      | 124.68   |
| 17  | 5     | 607 | CLA  | CBC-CAC-C3C | 3.31  | 121.55      | 112.43   |
| 17  | B     | 827 | CLA  | CHB-C4A-NA  | 3.30  | 129.08      | 124.51   |
| 20  | K     | 101 | BCR  | C15-C14-C13 | -3.30 | 122.60      | 127.31   |
| 17  | A     | 810 | CLA  | O2D-CGD-O1D | -3.30 | 117.38      | 123.84   |
| 17  | L     | 203 | CLA  | CMB-C2B-C3B | 3.30  | 130.85      | 124.68   |
| 23  | B     | 851 | DGD  | O6D-C1D-O3G | -3.30 | 102.16      | 109.97   |
| 17  | B     | 815 | CLA  | CHB-C4A-NA  | 3.30  | 129.07      | 124.51   |
| 17  | 4     | 608 | CLA  | CHB-C4A-NA  | 3.29  | 129.07      | 124.51   |
| 17  | B     | 810 | CLA  | CHB-C4A-NA  | 3.29  | 129.06      | 124.51   |
| 25  | 3     | 214 | ZEX  | C27-C28-C29 | -3.29 | 121.26      | 126.23   |
| 17  | 5     | 612 | CLA  | CHB-C4A-NA  | 3.29  | 129.06      | 124.51   |
| 17  | A     | 812 | CLA  | CHB-C4A-NA  | 3.29  | 129.06      | 124.51   |
| 17  | B     | 841 | CLA  | CMB-C2B-C3B | 3.29  | 130.83      | 124.68   |
| 17  | B     | 807 | CLA  | CHB-C4A-NA  | 3.29  | 129.06      | 124.51   |
| 17  | A     | 839 | CLA  | CHB-C4A-NA  | 3.28  | 129.05      | 124.51   |
| 17  | A     | 805 | CLA  | CHB-C4A-NA  | 3.28  | 129.05      | 124.51   |
| 17  | B     | 815 | CLA  | CMB-C2B-C3B | 3.28  | 130.82      | 124.68   |
| 17  | 1     | 608 | CLA  | CMB-C2B-C1B | -3.28 | 123.42      | 128.46   |
| 17  | B     | 801 | CLA  | O2D-CGD-O1D | -3.28 | 117.43      | 123.84   |
| 17  | A     | 811 | CLA  | CHB-C4A-NA  | 3.28  | 129.04      | 124.51   |
| 17  | B     | 836 | CLA  | CMB-C2B-C1B | -3.27 | 123.43      | 128.46   |
| 20  | B     | 848 | BCR  | C15-C16-C17 | -3.27 | 116.77      | 123.47   |
| 17  | 2     | 612 | CLA  | CMB-C2B-C3B | 3.27  | 130.80      | 124.68   |
| 17  | B     | 820 | CLA  | CHB-C4A-NA  | 3.27  | 129.03      | 124.51   |
| 25  | 3     | 218 | ZEX  | C27-C28-C29 | -3.27 | 121.30      | 126.23   |
| 17  | K     | 103 | CLA  | CAA-C2A-C3A | -3.27 | 106.09      | 114.26   |
| 17  | 4     | 602 | CLA  | O2A-CGA-O1A | -3.27 | 115.35      | 123.59   |
| 17  | B     | 824 | CLA  | CMB-C2B-C1B | -3.27 | 123.44      | 128.46   |
| 17  | A     | 805 | CLA  | C1B-CHB-C4A | -3.27 | 123.65      | 130.12   |
| 17  | 4     | 601 | CLA  | CMB-C2B-C1B | -3.26 | 123.45      | 128.46   |
| 17  | A     | 822 | CLA  | CHB-C4A-NA  | 3.26  | 129.02      | 124.51   |
| 17  | B     | 808 | CLA  | O2D-CGD-O1D | -3.26 | 117.47      | 123.84   |
| 17  | 5     | 609 | CLA  | CMB-C2B-C1B | -3.26 | 123.46      | 128.46   |
| 17  | A     | 807 | CLA  | CAA-C2A-C3A | -3.26 | 103.86      | 112.78   |
| 17  | A     | 831 | CLA  | O2D-CGD-O1D | -3.25 | 117.49      | 123.84   |
| 17  | A     | 831 | CLA  | CMB-C2B-C3B | 3.24  | 130.75      | 124.68   |
| 17  | A     | 818 | CLA  | CHB-C4A-NA  | 3.24  | 128.99      | 124.51   |
| 17  | A     | 827 | CLA  | O2D-CGD-O1D | -3.24 | 117.50      | 123.84   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | A     | 825 | CLA  | CHB-C4A-NA  | 3.24  | 128.99      | 124.51   |
| 17  | B     | 843 | CLA  | CMB-C2B-C3B | 3.23  | 130.73      | 124.68   |
| 17  | A     | 818 | CLA  | CMB-C2B-C3B | 3.23  | 130.73      | 124.68   |
| 25  | 1     | 617 | ZEX  | C7-C6-C5    | -3.23 | 113.63      | 121.46   |
| 17  | B     | 830 | CLA  | CMB-C2B-C3B | 3.23  | 130.72      | 124.68   |
| 17  | 2     | 612 | CLA  | CHB-C4A-NA  | 3.23  | 128.98      | 124.51   |
| 17  | 2     | 607 | CLA  | CMB-C2B-C3B | 3.23  | 130.72      | 124.68   |
| 17  | 3     | 210 | CLA  | CMB-C2B-C3B | 3.23  | 130.72      | 124.68   |
| 25  | 1     | 614 | ZEX  | C7-C8-C9    | -3.23 | 121.36      | 126.23   |
| 17  | A     | 829 | CLA  | CMB-C2B-C1B | -3.23 | 123.50      | 128.46   |
| 17  | 5     | 613 | CLA  | CMB-C2B-C3B | 3.23  | 130.71      | 124.68   |
| 17  | B     | 809 | CLA  | CHB-C4A-NA  | 3.22  | 128.97      | 124.51   |
| 17  | 2     | 607 | CLA  | CHB-C4A-NA  | 3.22  | 128.97      | 124.51   |
| 20  | L     | 205 | BCR  | C15-C14-C13 | -3.22 | 122.72      | 127.31   |
| 17  | A     | 808 | CLA  | CMB-C2B-C1B | -3.22 | 123.52      | 128.46   |
| 17  | 5     | 603 | CLA  | CMB-C2B-C1B | -3.22 | 123.52      | 128.46   |
| 25  | 4     | 614 | ZEX  | C18-C5-C4   | -3.22 | 108.40      | 114.36   |
| 25  | 4     | 613 | ZEX  | C28-C27-C26 | -3.21 | 121.60      | 127.09   |
| 17  | 3     | 202 | CLA  | CHB-C4A-NA  | 3.21  | 128.95      | 124.51   |
| 17  | J     | 102 | CLA  | CHB-C4A-NA  | 3.21  | 128.95      | 124.51   |
| 17  | B     | 804 | CLA  | CMB-C2B-C3B | 3.21  | 130.68      | 124.68   |
| 17  | 1     | 608 | CLA  | CHB-C4A-NA  | 3.20  | 128.94      | 124.51   |
| 17  | B     | 833 | CLA  | CHB-C4A-NA  | 3.20  | 128.94      | 124.51   |
| 17  | 4     | 609 | CLA  | CMB-C2B-C3B | 3.20  | 130.66      | 124.68   |
| 25  | 4     | 612 | ZEX  | C31-C32-C33 | -3.19 | 117.45      | 126.42   |
| 17  | B     | 811 | CLA  | CAA-C2A-C3A | -3.19 | 104.04      | 112.78   |
| 17  | B     | 838 | CLA  | CBC-CAC-C3C | 3.19  | 121.22      | 112.43   |
| 17  | B     | 842 | CLA  | CMB-C2B-C1B | -3.19 | 123.56      | 128.46   |
| 17  | A     | 822 | CLA  | CMB-C2B-C3B | 3.19  | 130.64      | 124.68   |
| 25  | 3     | 215 | ZEX  | C7-C6-C5    | -3.19 | 113.75      | 121.46   |
| 17  | A     | 848 | CLA  | O2D-CGD-O1D | -3.18 | 117.62      | 123.84   |
| 17  | A     | 816 | CLA  | C1B-CHB-C4A | -3.18 | 123.82      | 130.12   |
| 17  | 5     | 605 | CLA  | CHB-C4A-NA  | 3.18  | 128.91      | 124.51   |
| 25  | 3     | 214 | ZEX  | C11-C12-C13 | -3.18 | 117.49      | 126.42   |
| 17  | O     | 204 | CLA  | CMB-C2B-C3B | 3.18  | 130.62      | 124.68   |
| 25  | 4     | 614 | ZEX  | C28-C27-C26 | -3.18 | 121.66      | 127.09   |
| 17  | 3     | 213 | CLA  | CHB-C4A-NA  | 3.18  | 128.90      | 124.51   |
| 17  | 3     | 211 | CLA  | CMB-C2B-C3B | 3.17  | 130.62      | 124.68   |
| 17  | 4     | 611 | CLA  | O2D-CGD-O1D | -3.17 | 117.63      | 123.84   |
| 17  | A     | 835 | CLA  | CHB-C4A-NA  | 3.17  | 128.90      | 124.51   |
| 17  | 3     | 203 | CLA  | CAC-C3C-C4C | 3.17  | 128.93      | 124.81   |
| 17  | 1     | 608 | CLA  | CAA-C2A-C3A | -3.17 | 104.10      | 112.78   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | 2     | 606 | CLA  | CAA-C2A-C3A | -3.17 | 104.10      | 112.78   |
| 17  | F     | 301 | CLA  | CMB-C2B-C3B | 3.17  | 130.60      | 124.68   |
| 17  | 3     | 210 | CLA  | O2D-CGD-O1D | -3.16 | 117.65      | 123.84   |
| 17  | O     | 203 | CLA  | CMB-C2B-C3B | 3.16  | 130.59      | 124.68   |
| 20  | A     | 845 | BCR  | C24-C23-C22 | -3.16 | 121.46      | 126.23   |
| 25  | 5     | 616 | ZEX  | C18-C5-C4   | -3.15 | 108.51      | 114.36   |
| 25  | 4     | 613 | ZEX  | C27-C28-C29 | -3.15 | 121.47      | 126.23   |
| 17  | 4     | 607 | CLA  | CMB-C2B-C3B | 3.15  | 130.57      | 124.68   |
| 17  | 2     | 601 | CLA  | CHB-C4A-NA  | 3.15  | 128.87      | 124.51   |
| 17  | 1     | 601 | CLA  | C1B-CHB-C4A | -3.15 | 123.88      | 130.12   |
| 17  | B     | 828 | CLA  | CAA-C2A-C1A | -3.15 | 101.66      | 111.97   |
| 25  | 4     | 612 | ZEX  | C27-C28-C29 | -3.15 | 121.48      | 126.23   |
| 17  | A     | 819 | CLA  | C1B-CHB-C4A | -3.15 | 123.89      | 130.12   |
| 17  | 2     | 605 | CLA  | CMB-C2B-C3B | 3.14  | 130.56      | 124.68   |
| 17  | 2     | 602 | CLA  | CHB-C4A-NA  | 3.14  | 128.86      | 124.51   |
| 25  | 3     | 215 | ZEX  | C37-C21-C26 | -3.14 | 105.20      | 110.30   |
| 16  | A     | 801 | CL0  | CHA-C4D-ND  | 3.13  | 139.06      | 132.50   |
| 17  | B     | 822 | CLA  | CAA-C2A-C3A | -3.13 | 104.20      | 112.78   |
| 25  | 3     | 216 | ZEX  | C7-C8-C9    | -3.13 | 121.50      | 126.23   |
| 17  | 2     | 606 | CLA  | O2D-CGD-O1D | -3.13 | 117.71      | 123.84   |
| 17  | 3     | 211 | CLA  | CAA-C2A-C3A | -3.13 | 106.44      | 114.26   |
| 17  | 1     | 601 | CLA  | CMC-C2C-C1C | -3.13 | 120.27      | 125.04   |
| 17  | 3     | 207 | CLA  | CMB-C2B-C3B | 3.13  | 130.53      | 124.68   |
| 17  | 4     | 611 | CLA  | CMB-C2B-C1B | -3.13 | 123.66      | 128.46   |
| 17  | 2     | 610 | CLA  | CMB-C2B-C1B | -3.13 | 123.66      | 128.46   |
| 25  | 1     | 617 | ZEX  | C19-C9-C8   | -3.13 | 113.15      | 118.08   |
| 17  | K     | 103 | CLA  | CMB-C2B-C3B | 3.13  | 130.53      | 124.68   |
| 17  | F     | 303 | CLA  | CHB-C4A-NA  | 3.13  | 128.83      | 124.51   |
| 25  | 5     | 617 | ZEX  | C8-C7-C6    | -3.13 | 118.42      | 127.20   |
| 17  | 5     | 606 | CLA  | CMD-C2D-C3D | -3.12 | 120.44      | 127.61   |
| 17  | A     | 832 | CLA  | O2D-CGD-CBD | 3.12  | 116.81      | 111.27   |
| 17  | B     | 811 | CLA  | O2A-CGA-O1A | -3.12 | 115.72      | 123.59   |
| 17  | A     | 815 | CLA  | CHB-C4A-NA  | 3.12  | 128.82      | 124.51   |
| 17  | 1     | 601 | CLA  | O2D-CGD-O1D | -3.12 | 117.75      | 123.84   |
| 17  | 1     | 604 | CLA  | CAA-C2A-C3A | -3.12 | 104.25      | 112.78   |
| 17  | A     | 806 | CLA  | O2D-CGD-O1D | -3.11 | 117.75      | 123.84   |
| 17  | 1     | 607 | CLA  | CMB-C2B-C3B | 3.11  | 130.49      | 124.68   |
| 16  | A     | 801 | CL0  | C1-C2-C3    | -3.11 | 120.67      | 126.04   |
| 17  | B     | 801 | CLA  | CBC-CAC-C3C | -3.11 | 103.87      | 112.43   |
| 17  | A     | 836 | CLA  | CMB-C2B-C3B | 3.11  | 130.49      | 124.68   |
| 25  | 3     | 216 | ZEX  | C27-C28-C29 | -3.10 | 121.55      | 126.23   |
| 25  | 2     | 616 | ZEX  | C28-C29-C30 | -3.10 | 114.18      | 118.94   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | 4     | 608 | CLA  | CAA-C2A-C3A | -3.10 | 104.28      | 112.78   |
| 17  | B     | 830 | CLA  | CMB-C2B-C1B | -3.10 | 123.70      | 128.46   |
| 17  | 5     | 612 | CLA  | CMB-C2B-C1B | -3.10 | 123.70      | 128.46   |
| 17  | 5     | 606 | CLA  | CMA-C3A-C4A | -3.10 | 103.44      | 111.77   |
| 17  | J     | 101 | CLA  | CAA-C2A-C3A | -3.10 | 104.29      | 112.78   |
| 17  | A     | 835 | CLA  | O2D-CGD-O1D | -3.10 | 117.78      | 123.84   |
| 25  | 1     | 614 | ZEX  | C8-C9-C10   | -3.10 | 114.19      | 118.94   |
| 25  | 3     | 216 | ZEX  | C8-C7-C6    | -3.10 | 118.51      | 127.20   |
| 25  | 1     | 613 | ZEX  | C11-C12-C13 | -3.10 | 117.72      | 126.42   |
| 17  | B     | 802 | CLA  | CHB-C4A-NA  | 3.09  | 128.79      | 124.51   |
| 17  | 4     | 610 | CLA  | CHB-C4A-NA  | 3.09  | 128.79      | 124.51   |
| 25  | 2     | 615 | ZEX  | C11-C12-C13 | -3.09 | 117.74      | 126.42   |
| 17  | A     | 811 | CLA  | CMB-C2B-C1B | -3.09 | 123.72      | 128.46   |
| 17  | B     | 822 | CLA  | CHB-C4A-NA  | 3.09  | 128.78      | 124.51   |
| 20  | J     | 104 | BCR  | C15-C16-C17 | -3.08 | 117.16      | 123.47   |
| 20  | B     | 849 | BCR  | C11-C10-C9  | -3.08 | 122.91      | 127.31   |
| 17  | A     | 832 | CLA  | CAA-C2A-C3A | -3.08 | 104.33      | 112.78   |
| 20  | B     | 805 | BCR  | C24-C23-C22 | -3.08 | 121.58      | 126.23   |
| 17  | B     | 804 | CLA  | OBD-CAD-C3D | 3.08  | 135.94      | 128.52   |
| 17  | A     | 814 | CLA  | CHB-C4A-NA  | 3.08  | 128.77      | 124.51   |
| 20  | O     | 202 | BCR  | C39-C30-C25 | -3.08 | 105.30      | 110.30   |
| 17  | 2     | 608 | CLA  | CAA-C2A-C3A | -3.08 | 104.35      | 112.78   |
| 25  | 1     | 617 | ZEX  | C31-C32-C33 | -3.08 | 117.77      | 126.42   |
| 17  | A     | 818 | CLA  | CAC-C3C-C4C | -3.08 | 120.82      | 124.81   |
| 17  | A     | 826 | CLA  | C1-C2-C3    | -3.08 | 120.72      | 126.04   |
| 17  | B     | 806 | CLA  | CED-O2D-CGD | -3.08 | 108.98      | 115.94   |
| 17  | A     | 806 | CLA  | CHB-C4A-NA  | 3.08  | 128.77      | 124.51   |
| 17  | B     | 818 | CLA  | CHB-C4A-NA  | 3.07  | 128.76      | 124.51   |
| 17  | B     | 813 | CLA  | CAA-C2A-C3A | -3.07 | 104.37      | 112.78   |
| 20  | B     | 849 | BCR  | C3-C4-C5    | -3.06 | 108.61      | 114.08   |
| 17  | B     | 842 | CLA  | CHB-C4A-NA  | 3.06  | 128.75      | 124.51   |
| 17  | A     | 837 | CLA  | CHB-C4A-NA  | 3.06  | 128.74      | 124.51   |
| 17  | 3     | 204 | CLA  | CMB-C2B-C3B | 3.06  | 130.40      | 124.68   |
| 17  | B     | 818 | CLA  | CMB-C2B-C3B | 3.06  | 130.40      | 124.68   |
| 20  | B     | 848 | BCR  | C15-C14-C13 | -3.05 | 122.96      | 127.31   |
| 17  | 1     | 601 | CLA  | CHC-C1C-NC  | 3.05  | 128.83      | 124.20   |
| 17  | A     | 834 | CLA  | CHB-C4A-NA  | 3.05  | 128.73      | 124.51   |
| 17  | B     | 818 | CLA  | CAA-C2A-C3A | -3.05 | 106.65      | 114.26   |
| 25  | 1     | 616 | ZEX  | C8-C7-C6    | -3.05 | 118.65      | 127.20   |
| 17  | 4     | 611 | CLA  | CHB-C4A-NA  | 3.05  | 128.72      | 124.51   |
| 25  | 2     | 617 | ZEX  | C31-C32-C33 | -3.04 | 117.86      | 126.42   |
| 17  | J     | 101 | CLA  | CHB-C4A-NA  | 3.04  | 128.72      | 124.51   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 20  | B     | 849 | BCR  | C37-C22-C21 | -3.04 | 118.66      | 122.92   |
| 17  | 1     | 612 | CLA  | O2D-CGD-O1D | -3.04 | 117.89      | 123.84   |
| 17  | 3     | 213 | CLA  | CMB-C2B-C1B | -3.04 | 123.79      | 128.46   |
| 25  | 3     | 201 | ZEX  | C11-C12-C13 | -3.04 | 117.88      | 126.42   |
| 25  | 1     | 617 | ZEX  | C4-C5-C6    | -3.04 | 114.08      | 120.85   |
| 20  | B     | 849 | BCR  | C15-C14-C13 | -3.04 | 122.98      | 127.31   |
| 17  | A     | 814 | CLA  | O2D-CGD-O1D | -3.03 | 117.91      | 123.84   |
| 17  | A     | 831 | CLA  | CHB-C4A-NA  | 3.03  | 128.71      | 124.51   |
| 17  | B     | 821 | CLA  | CHB-C4A-NA  | 3.03  | 128.71      | 124.51   |
| 17  | 2     | 613 | CLA  | CMB-C2B-C3B | 3.03  | 130.34      | 124.68   |
| 17  | F     | 302 | CLA  | O2D-CGD-O1D | -3.02 | 117.92      | 123.84   |
| 17  | 2     | 613 | CLA  | CHB-C4A-NA  | 3.02  | 128.69      | 124.51   |
| 17  | B     | 839 | CLA  | CMB-C2B-C3B | 3.02  | 130.33      | 124.68   |
| 25  | 5     | 614 | ZEX  | C27-C28-C29 | -3.02 | 121.67      | 126.23   |
| 17  | A     | 804 | CLA  | CHB-C4A-NA  | 3.02  | 128.69      | 124.51   |
| 17  | A     | 803 | CLA  | CAA-C2A-C3A | -3.02 | 104.51      | 112.78   |
| 17  | 2     | 611 | CLA  | CAC-C3C-C2C | -3.02 | 122.37      | 127.53   |
| 17  | B     | 823 | CLA  | CMB-C2B-C3B | 3.01  | 130.32      | 124.68   |
| 25  | 2     | 616 | ZEX  | C8-C7-C6    | -3.01 | 118.74      | 127.20   |
| 20  | B     | 850 | BCR  | C15-C14-C13 | -3.01 | 123.01      | 127.31   |
| 17  | A     | 838 | CLA  | O2D-CGD-O1D | -3.01 | 117.94      | 123.84   |
| 25  | 2     | 615 | ZEX  | C15-C35-C34 | -3.01 | 117.30      | 123.47   |
| 17  | B     | 839 | CLA  | CHB-C4A-NA  | 3.01  | 128.68      | 124.51   |
| 20  | L     | 205 | BCR  | C11-C10-C9  | -3.01 | 123.02      | 127.31   |
| 17  | A     | 821 | CLA  | CHB-C4A-NA  | 3.00  | 128.67      | 124.51   |
| 17  | 1     | 611 | CLA  | CMB-C2B-C3B | 3.00  | 130.29      | 124.68   |
| 17  | 2     | 611 | CLA  | CHB-C4A-NA  | 3.00  | 128.66      | 124.51   |
| 25  | 3     | 215 | ZEX  | C12-C13-C14 | -3.00 | 114.34      | 118.94   |
| 17  | 4     | 603 | CLA  | CHB-C4A-NA  | 3.00  | 128.66      | 124.51   |
| 17  | B     | 802 | CLA  | C7-C6-C5    | -3.00 | 105.22      | 113.36   |
| 20  | B     | 805 | BCR  | C2-C1-C6    | 3.00  | 115.09      | 110.48   |
| 17  | 5     | 604 | CLA  | CHB-C4A-NA  | 3.00  | 128.65      | 124.51   |
| 17  | A     | 832 | CLA  | C1B-CHB-C4A | -2.99 | 124.19      | 130.12   |
| 17  | B     | 801 | CLA  | CAA-C2A-C3A | -2.99 | 104.58      | 112.78   |
| 17  | 2     | 611 | CLA  | CMB-C2B-C3B | 2.99  | 130.27      | 124.68   |
| 17  | B     | 806 | CLA  | C1-C2-C3    | -2.99 | 120.88      | 126.04   |
| 17  | 3     | 208 | CLA  | CHB-C4A-NA  | 2.99  | 128.64      | 124.51   |
| 17  | A     | 848 | CLA  | C1B-CHB-C4A | -2.99 | 124.20      | 130.12   |
| 17  | 3     | 212 | CLA  | CHB-C4A-NA  | 2.99  | 128.64      | 124.51   |
| 17  | L     | 204 | CLA  | CMB-C2B-C3B | 2.99  | 130.26      | 124.68   |
| 17  | 5     | 607 | CLA  | CAA-C2A-C3A | -2.98 | 104.61      | 112.78   |
| 17  | A     | 838 | CLA  | CHB-C4A-NA  | 2.98  | 128.64      | 124.51   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | B     | 802 | CLA  | CMB-C2B-C3B | 2.98  | 130.26      | 124.68   |
| 17  | A     | 817 | CLA  | CMB-C2B-C3B | 2.98  | 130.25      | 124.68   |
| 20  | B     | 847 | BCR  | C24-C23-C22 | -2.98 | 121.73      | 126.23   |
| 17  | 3     | 207 | CLA  | CHB-C4A-NA  | 2.98  | 128.63      | 124.51   |
| 25  | 3     | 218 | ZEX  | C23-C24-C25 | 2.98  | 113.57      | 109.33   |
| 17  | A     | 848 | CLA  | CHC-C1C-NC  | 2.98  | 128.72      | 124.20   |
| 17  | 5     | 601 | CLA  | CHB-C4A-NA  | 2.98  | 128.63      | 124.51   |
| 25  | 4     | 617 | ZEX  | C18-C5-C4   | -2.97 | 108.84      | 114.36   |
| 17  | 4     | 604 | CLA  | CMB-C2B-C3B | 2.97  | 130.24      | 124.68   |
| 20  | L     | 206 | BCR  | C7-C8-C9    | -2.97 | 121.74      | 126.23   |
| 17  | 3     | 205 | CLA  | CHB-C4A-NA  | 2.97  | 128.62      | 124.51   |
| 17  | 3     | 202 | CLA  | CMB-C2B-C3B | 2.97  | 130.24      | 124.68   |
| 20  | A     | 843 | BCR  | C7-C8-C9    | -2.97 | 121.75      | 126.23   |
| 17  | K     | 102 | CLA  | CMB-C2B-C3B | 2.97  | 130.24      | 124.68   |
| 17  | B     | 828 | CLA  | C2D-C1D-ND  | -2.97 | 107.92      | 110.10   |
| 17  | L     | 202 | CLA  | CMB-C2B-C1B | -2.97 | 123.90      | 128.46   |
| 17  | B     | 823 | CLA  | CHB-C4A-NA  | 2.97  | 128.62      | 124.51   |
| 17  | A     | 828 | CLA  | C1D-ND-C4D  | 2.97  | 108.44      | 106.33   |
| 17  | 3     | 212 | CLA  | CMB-C2B-C3B | 2.96  | 130.22      | 124.68   |
| 17  | B     | 804 | CLA  | C4D-C3D-CAD | -2.96 | 104.60      | 108.10   |
| 17  | J     | 102 | CLA  | CMB-C2B-C1B | -2.96 | 123.91      | 128.46   |
| 17  | 4     | 610 | CLA  | O2D-CGD-O1D | -2.96 | 118.05      | 123.84   |
| 17  | B     | 830 | CLA  | CHB-C4A-NA  | 2.96  | 128.61      | 124.51   |
| 17  | 5     | 609 | CLA  | C2D-C1D-ND  | -2.96 | 107.92      | 110.10   |
| 17  | A     | 820 | CLA  | O2D-CGD-CBD | 2.96  | 116.53      | 111.27   |
| 17  | 5     | 606 | CLA  | CMD-C2D-C1D | 2.96  | 129.93      | 124.71   |
| 17  | 4     | 606 | CLA  | CHB-C4A-NA  | 2.96  | 128.60      | 124.51   |
| 17  | 4     | 610 | CLA  | CMB-C2B-C1B | -2.96 | 123.92      | 128.46   |
| 25  | 3     | 201 | ZEX  | C12-C13-C14 | -2.96 | 114.41      | 118.94   |
| 20  | L     | 206 | BCR  | C15-C14-C13 | -2.96 | 123.09      | 127.31   |
| 17  | A     | 824 | CLA  | CAA-C2A-C1A | -2.96 | 102.29      | 111.97   |
| 17  | B     | 832 | CLA  | CAA-C2A-C3A | -2.95 | 104.69      | 112.78   |
| 25  | 4     | 612 | ZEX  | C8-C7-C6    | -2.95 | 118.91      | 127.20   |
| 17  | B     | 801 | CLA  | CGD-CBD-CAD | 2.95  | 120.30      | 110.73   |
| 17  | A     | 808 | CLA  | CHB-C4A-NA  | 2.95  | 128.59      | 124.51   |
| 17  | B     | 836 | CLA  | CMB-C2B-C3B | 2.95  | 130.20      | 124.68   |
| 17  | A     | 820 | CLA  | CHB-C4A-NA  | 2.95  | 128.59      | 124.51   |
| 17  | 5     | 605 | CLA  | CMB-C2B-C3B | 2.95  | 130.19      | 124.68   |
| 25  | 3     | 201 | ZEX  | C31-C32-C33 | -2.95 | 118.13      | 126.42   |
| 17  | B     | 824 | CLA  | CHB-C4A-NA  | 2.95  | 128.59      | 124.51   |
| 17  | A     | 803 | CLA  | C1B-CHB-C4A | -2.95 | 124.28      | 130.12   |
| 17  | B     | 804 | CLA  | C1B-CHB-C4A | -2.95 | 124.28      | 130.12   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | A     | 810 | CLA  | CMB-C2B-C3B | 2.95  | 130.19      | 124.68   |
| 17  | 5     | 608 | CLA  | CHB-C4A-NA  | 2.94  | 128.58      | 124.51   |
| 17  | A     | 832 | CLA  | CMC-C2C-C3C | 2.94  | 134.11      | 126.12   |
| 17  | B     | 803 | CLA  | C1B-CHB-C4A | -2.94 | 124.29      | 130.12   |
| 17  | 2     | 601 | CLA  | CMB-C2B-C1B | -2.94 | 123.94      | 128.46   |
| 17  | 3     | 203 | CLA  | C1B-CHB-C4A | -2.94 | 124.30      | 130.12   |
| 17  | A     | 814 | CLA  | CMB-C2B-C1B | -2.94 | 123.95      | 128.46   |
| 17  | A     | 832 | CLA  | CMB-C2B-C1B | -2.93 | 123.95      | 128.46   |
| 20  | B     | 846 | BCR  | C7-C8-C9    | -2.93 | 121.80      | 126.23   |
| 17  | L     | 202 | CLA  | CHB-C4A-NA  | 2.93  | 128.56      | 124.51   |
| 17  | A     | 813 | CLA  | CHB-C4A-NA  | 2.93  | 128.56      | 124.51   |
| 17  | A     | 823 | CLA  | CHB-C4A-NA  | 2.93  | 128.56      | 124.51   |
| 17  | B     | 833 | CLA  | CMB-C2B-C3B | 2.93  | 130.16      | 124.68   |
| 17  | B     | 801 | CLA  | O1D-CGD-CBD | 2.93  | 130.47      | 124.48   |
| 25  | 5     | 614 | ZEX  | C3-C4-C5    | 2.93  | 117.68      | 111.85   |
| 17  | J     | 102 | CLA  | O2D-CGD-O1D | -2.93 | 118.12      | 123.84   |
| 25  | 5     | 614 | ZEX  | C21-C22-C23 | 2.92  | 120.01      | 113.69   |
| 17  | A     | 818 | CLA  | CAC-C3C-C2C | 2.92  | 132.53      | 127.53   |
| 17  | 1     | 606 | CLA  | CMB-C2B-C1B | -2.92 | 123.97      | 128.46   |
| 17  | A     | 810 | CLA  | CHB-C4A-NA  | 2.92  | 128.55      | 124.51   |
| 25  | 1     | 616 | ZEX  | C18-C5-C4   | -2.92 | 108.95      | 114.36   |
| 17  | 2     | 603 | CLA  | CHB-C4A-NA  | 2.92  | 128.55      | 124.51   |
| 17  | 5     | 603 | CLA  | CMB-C2B-C3B | 2.92  | 130.14      | 124.68   |
| 20  | B     | 805 | BCR  | C3-C4-C5    | -2.92 | 108.87      | 114.08   |
| 20  | F     | 304 | BCR  | C24-C23-C22 | -2.92 | 121.83      | 126.23   |
| 17  | J     | 103 | CLA  | CMB-C2B-C3B | 2.92  | 130.13      | 124.68   |
| 17  | 1     | 607 | CLA  | O2A-CGA-O1A | -2.91 | 116.04      | 123.30   |
| 25  | 3     | 215 | ZEX  | C17-C1-C6   | -2.91 | 105.57      | 110.30   |
| 20  | L     | 206 | BCR  | C15-C16-C17 | -2.91 | 117.51      | 123.47   |
| 17  | 4     | 602 | CLA  | CMA-C3A-C2A | -2.91 | 102.08      | 113.83   |
| 17  | L     | 204 | CLA  | CHB-C4A-NA  | 2.91  | 128.54      | 124.51   |
| 17  | B     | 807 | CLA  | O2D-CGD-O1D | -2.91 | 118.15      | 123.84   |
| 17  | 3     | 206 | CLA  | O2D-CGD-O1D | -2.91 | 118.15      | 123.84   |
| 17  | 5     | 601 | CLA  | O2D-CGD-O1D | -2.91 | 118.15      | 123.84   |
| 17  | B     | 820 | CLA  | O2D-CGD-O1D | -2.91 | 118.15      | 123.84   |
| 17  | B     | 826 | CLA  | CMB-C2B-C1B | -2.91 | 124.00      | 128.46   |
| 20  | L     | 205 | BCR  | C15-C16-C17 | -2.91 | 117.52      | 123.47   |
| 20  | B     | 848 | BCR  | C27-C26-C25 | 2.91  | 126.95      | 122.73   |
| 17  | A     | 827 | CLA  | CMA-C3A-C2A | -2.91 | 102.10      | 113.83   |
| 17  | O     | 204 | CLA  | CHB-C4A-NA  | 2.90  | 128.53      | 124.51   |
| 17  | B     | 826 | CLA  | O2D-CGD-O1D | -2.90 | 118.16      | 123.84   |
| 17  | 1     | 605 | CLA  | CMB-C2B-C3B | 2.90  | 130.11      | 124.68   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25  | 4     | 612 | ZEX  | C7-C6-C5    | -2.90 | 114.43      | 121.46   |
| 17  | 2     | 603 | CLA  | CAA-C2A-C3A | -2.90 | 104.84      | 112.78   |
| 17  | 3     | 209 | CLA  | CHB-C4A-NA  | 2.90  | 128.52      | 124.51   |
| 17  | B     | 822 | CLA  | C1B-CHB-C4A | -2.90 | 124.38      | 130.12   |
| 17  | O     | 205 | CLA  | O2D-CGD-O1D | -2.90 | 118.17      | 123.84   |
| 25  | 3     | 216 | ZEX  | C18-C5-C4   | -2.90 | 108.98      | 114.36   |
| 17  | A     | 806 | CLA  | CMB-C2B-C3B | 2.90  | 130.10      | 124.68   |
| 17  | 1     | 606 | CLA  | CHB-C4A-NA  | 2.90  | 128.52      | 124.51   |
| 25  | 5     | 615 | ZEX  | C32-C33-C34 | -2.90 | 114.50      | 118.94   |
| 17  | B     | 802 | CLA  | C4D-CHA-C1A | 2.90  | 124.77      | 121.25   |
| 17  | 1     | 607 | CLA  | CHB-C4A-NA  | 2.90  | 128.52      | 124.51   |
| 17  | F     | 303 | CLA  | CMB-C2B-C3B | 2.89  | 130.09      | 124.68   |
| 17  | B     | 810 | CLA  | CMB-C2B-C1B | -2.89 | 124.02      | 128.46   |
| 17  | B     | 817 | CLA  | CAA-C2A-C3A | -2.89 | 104.86      | 112.78   |
| 20  | B     | 848 | BCR  | C30-C25-C26 | -2.89 | 118.54      | 122.61   |
| 17  | K     | 102 | CLA  | CHB-C4A-NA  | 2.89  | 128.51      | 124.51   |
| 17  | K     | 103 | CLA  | CHB-C4A-NA  | 2.89  | 128.51      | 124.51   |
| 25  | 4     | 616 | ZEX  | C18-C5-C4   | -2.89 | 109.00      | 114.36   |
| 17  | B     | 809 | CLA  | CMB-C2B-C1B | -2.89 | 124.03      | 128.46   |
| 17  | 5     | 606 | CLA  | CGD-CBD-CAD | -2.89 | 101.38      | 110.73   |
| 25  | 3     | 215 | ZEX  | C7-C8-C9    | -2.88 | 121.88      | 126.23   |
| 17  | 2     | 612 | CLA  | CAA-C2A-C3A | -2.88 | 104.89      | 112.78   |
| 17  | 2     | 611 | CLA  | CAA-C2A-C3A | -2.88 | 104.89      | 112.78   |
| 17  | 5     | 608 | CLA  | O2D-CGD-O1D | -2.88 | 118.20      | 123.84   |
| 17  | B     | 829 | CLA  | O2D-CGD-O1D | -2.88 | 118.21      | 123.84   |
| 17  | O     | 205 | CLA  | CMB-C2B-C3B | 2.88  | 130.06      | 124.68   |
| 17  | B     | 821 | CLA  | O2D-CGD-O1D | -2.88 | 118.21      | 123.84   |
| 17  | 1     | 603 | CLA  | CMB-C2B-C3B | 2.88  | 130.06      | 124.68   |
| 17  | F     | 302 | CLA  | CHB-C4A-NA  | 2.87  | 128.49      | 124.51   |
| 20  | A     | 846 | BCR  | C15-C16-C17 | -2.87 | 117.59      | 123.47   |
| 17  | B     | 834 | CLA  | CHB-C4A-NA  | 2.87  | 128.49      | 124.51   |
| 17  | 5     | 610 | CLA  | O2D-CGD-O1D | -2.87 | 118.22      | 123.84   |
| 17  | A     | 834 | CLA  | CMB-C2B-C3B | 2.87  | 130.05      | 124.68   |
| 17  | A     | 830 | CLA  | CHB-C4A-NA  | 2.87  | 128.48      | 124.51   |
| 17  | A     | 803 | CLA  | O2D-CGD-O1D | -2.87 | 118.23      | 123.84   |
| 17  | A     | 828 | CLA  | O2D-CGD-O1D | -2.87 | 118.23      | 123.84   |
| 17  | A     | 816 | CLA  | C2D-C1D-ND  | -2.87 | 107.99      | 110.10   |
| 17  | 3     | 207 | CLA  | CAA-C2A-C3A | -2.87 | 104.92      | 112.78   |
| 17  | 4     | 609 | CLA  | O2D-CGD-O1D | -2.87 | 118.23      | 123.84   |
| 17  | 4     | 602 | CLA  | CHB-C4A-NA  | 2.86  | 128.47      | 124.51   |
| 17  | 3     | 204 | CLA  | CHB-C4A-NA  | 2.86  | 128.47      | 124.51   |
| 17  | 3     | 205 | CLA  | O2D-CGD-CBD | 2.86  | 116.35      | 111.27   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | A     | 828 | CLA  | CHB-C4A-NA  | 2.86  | 128.47      | 124.51   |
| 17  | 2     | 609 | CLA  | CHB-C4A-NA  | 2.86  | 128.47      | 124.51   |
| 17  | L     | 204 | CLA  | O2D-CGD-O1D | -2.86 | 118.25      | 123.84   |
| 17  | 1     | 610 | CLA  | CHB-C4A-NA  | 2.85  | 128.46      | 124.51   |
| 17  | 1     | 611 | CLA  | CHB-C4A-NA  | 2.85  | 128.46      | 124.51   |
| 17  | A     | 830 | CLA  | O2D-CGD-O1D | -2.85 | 118.26      | 123.84   |
| 17  | B     | 810 | CLA  | CAA-C2A-C3A | -2.85 | 104.97      | 112.78   |
| 17  | 2     | 601 | CLA  | O1D-CGD-CBD | 2.85  | 130.32      | 124.48   |
| 17  | A     | 813 | CLA  | CAA-C2A-C3A | -2.85 | 107.14      | 114.26   |
| 17  | O     | 205 | CLA  | CHB-C4A-NA  | 2.85  | 128.45      | 124.51   |
| 17  | A     | 838 | CLA  | C1-C2-C3    | -2.85 | 121.12      | 126.04   |
| 17  | A     | 839 | CLA  | O2D-CGD-O1D | -2.85 | 118.27      | 123.84   |
| 17  | 5     | 609 | CLA  | CMC-C2C-C3C | 2.85  | 133.84      | 126.12   |
| 17  | O     | 201 | CLA  | CAA-C2A-C3A | -2.85 | 104.98      | 112.78   |
| 17  | A     | 828 | CLA  | CHC-C1C-NC  | 2.85  | 128.52      | 124.20   |
| 17  | 4     | 608 | CLA  | C1B-CHB-C4A | -2.84 | 124.49      | 130.12   |
| 25  | 1     | 613 | ZEX  | C18-C5-C4   | -2.84 | 109.09      | 114.36   |
| 17  | A     | 829 | CLA  | CHB-C4A-NA  | 2.84  | 128.44      | 124.51   |
| 17  | B     | 836 | CLA  | C1B-CHB-C4A | -2.84 | 124.49      | 130.12   |
| 17  | 4     | 603 | CLA  | O2D-CGD-O1D | -2.84 | 118.29      | 123.84   |
| 20  | I     | 101 | BCR  | C15-C14-C13 | -2.84 | 123.26      | 127.31   |
| 17  | A     | 824 | CLA  | CHB-C4A-NA  | 2.83  | 128.43      | 124.51   |
| 17  | 1     | 609 | CLA  | CHB-C4A-NA  | 2.83  | 128.43      | 124.51   |
| 25  | 1     | 616 | ZEX  | C7-C8-C9    | -2.83 | 121.95      | 126.23   |
| 17  | 3     | 207 | CLA  | O2D-CGD-O1D | -2.83 | 118.30      | 123.84   |
| 17  | B     | 841 | CLA  | CAA-C2A-C3A | -2.83 | 105.03      | 112.78   |
| 17  | 2     | 606 | CLA  | CMB-C2B-C3B | 2.83  | 129.97      | 124.68   |
| 17  | A     | 809 | CLA  | CHB-C4A-NA  | 2.83  | 128.43      | 124.51   |
| 23  | B     | 851 | DGD  | CDB-CCB-CBB | -2.83 | 100.06      | 114.42   |
| 17  | 3     | 211 | CLA  | O2D-CGD-O1D | -2.83 | 118.31      | 123.84   |
| 17  | B     | 806 | CLA  | CAA-C2A-C3A | -2.83 | 105.03      | 112.78   |
| 20  | B     | 849 | BCR  | C15-C16-C17 | -2.83 | 117.69      | 123.47   |
| 17  | 2     | 609 | CLA  | CMB-C2B-C3B | 2.83  | 129.96      | 124.68   |
| 25  | 3     | 201 | ZEX  | C38-C24-C23 | -2.83 | 107.84      | 112.20   |
| 20  | B     | 805 | BCR  | C11-C10-C9  | -2.82 | 123.28      | 127.31   |
| 17  | B     | 814 | CLA  | CHB-C4A-NA  | 2.82  | 128.42      | 124.51   |
| 17  | 5     | 607 | CLA  | CHB-C4A-NA  | 2.82  | 128.41      | 124.51   |
| 17  | A     | 820 | CLA  | CMB-C2B-C3B | 2.82  | 129.96      | 124.68   |
| 16  | A     | 801 | CL0  | C2A-C1A-CHA | 2.82  | 128.79      | 123.86   |
| 17  | A     | 824 | CLA  | CBC-CAC-C3C | 2.82  | 120.20      | 112.43   |
| 17  | 5     | 605 | CLA  | O2D-CGD-O1D | -2.82 | 118.33      | 123.84   |
| 20  | L     | 206 | BCR  | C11-C10-C9  | -2.82 | 123.29      | 127.31   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | B     | 843 | CLA  | CHB-C4A-NA  | 2.82  | 128.41      | 124.51   |
| 17  | K     | 102 | CLA  | O2D-CGD-O1D | -2.82 | 118.33      | 123.84   |
| 17  | B     | 802 | CLA  | CMB-C2B-C1B | -2.81 | 124.14      | 128.46   |
| 17  | A     | 805 | CLA  | O2D-CGD-O1D | -2.81 | 118.34      | 123.84   |
| 17  | 4     | 604 | CLA  | CHB-C4A-NA  | 2.81  | 128.40      | 124.51   |
| 17  | B     | 802 | CLA  | CHA-C1A-NA  | -2.81 | 119.96      | 126.40   |
| 20  | O     | 202 | BCR  | C15-C16-C17 | -2.81 | 117.72      | 123.47   |
| 17  | 4     | 608 | CLA  | O2D-CGD-O1D | -2.81 | 118.34      | 123.84   |
| 20  | B     | 848 | BCR  | C40-C30-C25 | 2.81  | 114.86      | 110.30   |
| 17  | A     | 828 | CLA  | C1B-CHB-C4A | -2.81 | 124.56      | 130.12   |
| 25  | 4     | 615 | ZEX  | C7-C8-C9    | -2.81 | 121.99      | 126.23   |
| 17  | F     | 301 | CLA  | CHB-C4A-NA  | 2.81  | 128.39      | 124.51   |
| 17  | 2     | 602 | CLA  | CMB-C2B-C3B | 2.80  | 129.92      | 124.68   |
| 17  | B     | 812 | CLA  | O2D-CGD-O1D | -2.80 | 118.36      | 123.84   |
| 16  | A     | 801 | CL0  | C2D-C1D-ND  | 2.80  | 112.17      | 110.10   |
| 25  | 4     | 614 | ZEX  | C11-C12-C13 | -2.80 | 118.55      | 126.42   |
| 20  | K     | 104 | BCR  | C15-C16-C17 | -2.80 | 117.74      | 123.47   |
| 25  | 3     | 215 | ZEX  | C15-C35-C34 | -2.80 | 117.74      | 123.47   |
| 25  | 1     | 615 | ZEX  | C31-C32-C33 | -2.80 | 118.56      | 126.42   |
| 25  | 2     | 617 | ZEX  | C11-C12-C13 | -2.80 | 118.56      | 126.42   |
| 17  | 4     | 601 | CLA  | O2D-CGD-O1D | -2.80 | 118.37      | 123.84   |
| 20  | L     | 205 | BCR  | C3-C4-C5    | -2.80 | 109.08      | 114.08   |
| 25  | 5     | 615 | ZEX  | C18-C5-C4   | -2.80 | 109.17      | 114.36   |
| 17  | B     | 820 | CLA  | C1B-CHB-C4A | -2.80 | 124.58      | 130.12   |
| 25  | 2     | 615 | ZEX  | C31-C32-C33 | -2.79 | 118.56      | 126.42   |
| 17  | B     | 841 | CLA  | CHB-C4A-NA  | 2.79  | 128.38      | 124.51   |
| 17  | 2     | 608 | CLA  | C1B-CHB-C4A | -2.79 | 124.58      | 130.12   |
| 17  | B     | 821 | CLA  | CAA-CBA-CGA | -2.79 | 105.10      | 113.25   |
| 17  | O     | 203 | CLA  | O2D-CGD-O1D | -2.79 | 118.38      | 123.84   |
| 17  | 4     | 602 | CLA  | O2D-CGD-O1D | -2.79 | 118.38      | 123.84   |
| 25  | 1     | 617 | ZEX  | C7-C8-C9    | 2.79  | 130.45      | 126.23   |
| 17  | 5     | 606 | CLA  | C3D-C2D-C1D | 2.79  | 109.64      | 105.83   |
| 20  | B     | 850 | BCR  | C2-C1-C6    | 2.79  | 114.77      | 110.48   |
| 25  | 5     | 614 | ZEX  | C28-C27-C26 | -2.79 | 122.33      | 127.09   |
| 17  | A     | 822 | CLA  | C1B-CHB-C4A | -2.79 | 124.60      | 130.12   |
| 17  | J     | 102 | CLA  | CMB-C2B-C3B | 2.78  | 129.89      | 124.68   |
| 17  | 5     | 602 | CLA  | CHD-C1D-ND  | -2.78 | 121.90      | 124.45   |
| 20  | A     | 846 | BCR  | C23-C22-C21 | -2.78 | 114.68      | 118.94   |
| 17  | B     | 834 | CLA  | C1B-CHB-C4A | -2.78 | 124.61      | 130.12   |
| 17  | A     | 803 | CLA  | CAC-C3C-C4C | 2.78  | 128.41      | 124.81   |
| 17  | 1     | 608 | CLA  | CMB-C2B-C3B | 2.78  | 129.88      | 124.68   |
| 17  | J     | 103 | CLA  | O2D-CGD-O1D | -2.78 | 118.41      | 123.84   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | 3     | 213 | CLA  | CMB-C2B-C3B | 2.78  | 129.88      | 124.68   |
| 25  | 3     | 215 | ZEX  | C11-C12-C13 | -2.78 | 118.61      | 126.42   |
| 17  | A     | 823 | CLA  | CMB-C2B-C1B | -2.78 | 124.19      | 128.46   |
| 17  | O     | 204 | CLA  | O2D-CGD-O1D | -2.78 | 118.41      | 123.84   |
| 17  | 1     | 608 | CLA  | O2D-CGD-O1D | -2.78 | 118.41      | 123.84   |
| 17  | L     | 203 | CLA  | CHB-C4A-NA  | 2.77  | 128.35      | 124.51   |
| 17  | 3     | 210 | CLA  | CHB-C4A-NA  | 2.77  | 128.35      | 124.51   |
| 25  | 4     | 615 | ZEX  | C18-C5-C4   | -2.77 | 109.22      | 114.36   |
| 20  | L     | 201 | BCR  | C20-C21-C22 | -2.77 | 123.35      | 127.31   |
| 20  | J     | 104 | BCR  | C40-C30-C25 | 2.77  | 114.79      | 110.30   |
| 17  | 1     | 602 | CLA  | CAA-C2A-C3A | -2.77 | 105.19      | 112.78   |
| 17  | A     | 816 | CLA  | C1D-ND-C4D  | 2.77  | 108.30      | 106.33   |
| 17  | B     | 806 | CLA  | O2D-CGD-CBD | 2.77  | 116.19      | 111.27   |
| 17  | A     | 811 | CLA  | CMB-C2B-C3B | 2.77  | 129.85      | 124.68   |
| 17  | 5     | 610 | CLA  | CHB-C4A-NA  | 2.77  | 128.34      | 124.51   |
| 25  | 1     | 613 | ZEX  | C15-C35-C34 | -2.77 | 117.81      | 123.47   |
| 17  | L     | 203 | CLA  | CAA-C2A-C3A | -2.76 | 105.21      | 112.78   |
| 17  | 1     | 602 | CLA  | O2D-CGD-O1D | -2.76 | 118.44      | 123.84   |
| 25  | 1     | 615 | ZEX  | C11-C12-C13 | -2.76 | 118.66      | 126.42   |
| 20  | B     | 805 | BCR  | C16-C15-C14 | -2.76 | 117.82      | 123.47   |
| 17  | 5     | 606 | CLA  | O2D-CGD-O1D | -2.76 | 118.44      | 123.84   |
| 17  | 3     | 211 | CLA  | CHB-C4A-NA  | 2.76  | 128.33      | 124.51   |
| 17  | 2     | 613 | CLA  | O2D-CGD-O1D | -2.76 | 118.44      | 123.84   |
| 17  | 1     | 606 | CLA  | CMB-C2B-C3B | 2.76  | 129.84      | 124.68   |
| 25  | 2     | 614 | ZEX  | C3-C4-C5    | 2.76  | 117.34      | 111.85   |
| 17  | 1     | 601 | CLA  | O2A-CGA-O1A | -2.76 | 116.64      | 123.59   |
| 17  | B     | 815 | CLA  | O2D-CGD-O1D | -2.75 | 118.45      | 123.84   |
| 17  | 5     | 602 | CLA  | CAA-C2A-C3A | -2.75 | 105.24      | 112.78   |
| 25  | 3     | 218 | ZEX  | C4-C5-C6    | -2.75 | 114.71      | 120.85   |
| 17  | 5     | 606 | CLA  | CED-O2D-CGD | 2.75  | 122.16      | 115.94   |
| 17  | 1     | 609 | CLA  | CAC-C3C-C4C | 2.75  | 128.38      | 124.81   |
| 17  | A     | 832 | CLA  | CMB-C2B-C3B | 2.75  | 129.82      | 124.68   |
| 17  | 2     | 610 | CLA  | CMB-C2B-C3B | 2.75  | 129.82      | 124.68   |
| 17  | J     | 102 | CLA  | CAA-C2A-C3A | -2.75 | 105.25      | 112.78   |
| 20  | B     | 850 | BCR  | C3-C4-C5    | -2.75 | 109.17      | 114.08   |
| 17  | B     | 832 | CLA  | CHB-C4A-NA  | 2.75  | 128.31      | 124.51   |
| 17  | 4     | 609 | CLA  | CHB-C4A-NA  | 2.75  | 128.31      | 124.51   |
| 17  | 2     | 610 | CLA  | O2D-CGD-O1D | -2.75 | 118.47      | 123.84   |
| 17  | 4     | 604 | CLA  | O2D-CGD-O1D | -2.75 | 118.47      | 123.84   |
| 20  | A     | 844 | BCR  | C15-C16-C17 | -2.75 | 117.85      | 123.47   |
| 17  | B     | 813 | CLA  | CMB-C2B-C3B | 2.75  | 129.81      | 124.68   |
| 17  | A     | 836 | CLA  | CHB-C4A-NA  | 2.75  | 128.31      | 124.51   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | B     | 825 | CLA  | CHB-C4A-NA  | 2.75  | 128.31      | 124.51   |
| 17  | B     | 808 | CLA  | CMB-C2B-C1B | -2.74 | 124.25      | 128.46   |
| 17  | A     | 822 | CLA  | O2D-CGD-O1D | -2.74 | 118.48      | 123.84   |
| 17  | O     | 201 | CLA  | CHB-C4A-NA  | 2.74  | 128.30      | 124.51   |
| 17  | 1     | 602 | CLA  | CHB-C4A-NA  | 2.74  | 128.30      | 124.51   |
| 17  | B     | 831 | CLA  | CMB-C2B-C3B | 2.74  | 129.80      | 124.68   |
| 17  | A     | 826 | CLA  | C1B-CHB-C4A | -2.74 | 124.69      | 130.12   |
| 17  | F     | 303 | CLA  | O2D-CGD-O1D | -2.74 | 118.49      | 123.84   |
| 17  | A     | 829 | CLA  | CMB-C2B-C3B | 2.74  | 129.80      | 124.68   |
| 17  | 2     | 606 | CLA  | CHB-C4A-NA  | 2.73  | 128.29      | 124.51   |
| 17  | B     | 802 | CLA  | CMA-C3A-C4A | -2.73 | 104.42      | 111.77   |
| 20  | B     | 846 | BCR  | C15-C14-C13 | -2.73 | 123.41      | 127.31   |
| 20  | A     | 844 | BCR  | C15-C14-C13 | -2.73 | 123.41      | 127.31   |
| 20  | A     | 843 | BCR  | C27-C26-C25 | 2.73  | 126.69      | 122.73   |
| 20  | B     | 847 | BCR  | C27-C26-C25 | 2.73  | 126.69      | 122.73   |
| 17  | B     | 819 | CLA  | O2D-CGD-O1D | -2.73 | 118.51      | 123.84   |
| 19  | A     | 842 | LHG  | O8-C23-C24  | 2.73  | 120.46      | 111.91   |
| 17  | A     | 818 | CLA  | CMC-C2C-C1C | -2.72 | 120.89      | 125.04   |
| 17  | B     | 830 | CLA  | CAA-C2A-C3A | -2.72 | 105.32      | 112.78   |
| 17  | B     | 834 | CLA  | CAA-C2A-C3A | -2.72 | 105.32      | 112.78   |
| 17  | 3     | 209 | CLA  | CAA-C2A-C3A | -2.72 | 105.32      | 112.78   |
| 25  | 5     | 616 | ZEX  | C28-C27-C26 | -2.72 | 122.44      | 127.09   |
| 20  | F     | 304 | BCR  | C15-C14-C13 | -2.72 | 123.42      | 127.31   |
| 20  | F     | 304 | BCR  | C11-C10-C9  | -2.72 | 123.43      | 127.31   |
| 25  | 2     | 616 | ZEX  | C7-C8-C9    | -2.72 | 122.12      | 126.23   |
| 17  | B     | 811 | CLA  | CBC-CAC-C3C | -2.72 | 104.93      | 112.43   |
| 17  | 2     | 607 | CLA  | O2D-CGD-O1D | -2.72 | 118.52      | 123.84   |
| 25  | 4     | 613 | ZEX  | C23-C24-C25 | 2.72  | 113.20      | 109.33   |
| 16  | A     | 801 | CL0  | CHA-C1A-NA  | -2.72 | 120.17      | 126.40   |
| 17  | 1     | 601 | CLA  | CAA-C2A-C3A | -2.72 | 105.33      | 112.78   |
| 17  | B     | 833 | CLA  | C2D-C1D-ND  | -2.72 | 108.10      | 110.10   |
| 17  | A     | 838 | CLA  | C1B-CHB-C4A | -2.72 | 124.74      | 130.12   |
| 20  | A     | 846 | BCR  | C20-C21-C22 | -2.72 | 123.43      | 127.31   |
| 17  | 5     | 613 | CLA  | CHB-C4A-NA  | 2.71  | 128.27      | 124.51   |
| 17  | 5     | 602 | CLA  | CHB-C4A-NA  | 2.71  | 128.26      | 124.51   |
| 17  | B     | 824 | CLA  | CMB-C2B-C3B | 2.71  | 129.75      | 124.68   |
| 17  | B     | 833 | CLA  | O2D-CGD-O1D | -2.71 | 118.53      | 123.84   |
| 17  | B     | 808 | CLA  | C11-C12-C13 | -2.71 | 107.15      | 115.92   |
| 17  | 3     | 205 | CLA  | C1B-CHB-C4A | -2.71 | 124.75      | 130.12   |
| 17  | B     | 840 | CLA  | CAA-C2A-C3A | -2.71 | 105.36      | 112.78   |
| 17  | 3     | 206 | CLA  | C2D-C1D-ND  | -2.71 | 108.11      | 110.10   |
| 17  | 4     | 605 | CLA  | CHB-C4A-NA  | 2.71  | 128.26      | 124.51   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | B     | 809 | CLA  | CMB-C2B-C3B | 2.71  | 129.74      | 124.68   |
| 17  | 3     | 210 | CLA  | CAC-C3C-C4C | 2.71  | 128.32      | 124.81   |
| 20  | J     | 105 | BCR  | C15-C16-C17 | -2.71 | 117.93      | 123.47   |
| 17  | 5     | 607 | CLA  | O2D-CGD-O1D | -2.70 | 118.55      | 123.84   |
| 17  | A     | 838 | CLA  | CAA-C2A-C3A | -2.70 | 105.37      | 112.78   |
| 17  | 2     | 607 | CLA  | C1B-CHB-C4A | -2.70 | 124.76      | 130.12   |
| 17  | 5     | 609 | CLA  | CMB-C2B-C3B | 2.70  | 129.73      | 124.68   |
| 17  | B     | 801 | CLA  | CAA-CBA-CGA | -2.70 | 105.37      | 113.25   |
| 17  | B     | 839 | CLA  | CAA-C2A-C3A | -2.70 | 105.39      | 112.78   |
| 20  | I     | 101 | BCR  | C31-C1-C6   | 2.70  | 114.67      | 110.30   |
| 17  | A     | 825 | CLA  | C1B-CHB-C4A | -2.69 | 124.78      | 130.12   |
| 17  | A     | 802 | CLA  | C1B-CHB-C4A | -2.69 | 124.78      | 130.12   |
| 17  | 5     | 609 | CLA  | CHB-C4A-NA  | 2.69  | 128.24      | 124.51   |
| 17  | 5     | 606 | CLA  | CHA-C4D-ND  | 2.69  | 138.13      | 132.50   |
| 17  | B     | 842 | CLA  | O2D-CGD-O1D | -2.69 | 118.58      | 123.84   |
| 17  | 5     | 611 | CLA  | O2D-CGD-O1D | -2.69 | 118.58      | 123.84   |
| 17  | 2     | 603 | CLA  | O2D-CGD-O1D | -2.69 | 118.58      | 123.84   |
| 17  | 2     | 601 | CLA  | CMB-C2B-C3B | 2.69  | 129.71      | 124.68   |
| 17  | B     | 810 | CLA  | O2D-CGD-O1D | -2.69 | 118.59      | 123.84   |
| 17  | 2     | 608 | CLA  | C1-C2-C3    | -2.69 | 122.41      | 126.75   |
| 17  | B     | 838 | CLA  | CHB-C4A-NA  | 2.69  | 128.22      | 124.51   |
| 17  | A     | 802 | CLA  | O2D-CGD-O1D | -2.68 | 118.59      | 123.84   |
| 17  | B     | 824 | CLA  | O2D-CGD-O1D | -2.68 | 118.59      | 123.84   |
| 17  | 1     | 612 | CLA  | C2A-C1A-CHA | 2.68  | 128.55      | 123.86   |
| 17  | F     | 302 | CLA  | O2D-CGD-CBD | 2.68  | 116.03      | 111.27   |
| 25  | 1     | 615 | ZEX  | C23-C24-C25 | 2.68  | 113.14      | 109.33   |
| 17  | B     | 833 | CLA  | CAA-C2A-C3A | -2.68 | 105.44      | 112.78   |
| 17  | A     | 835 | CLA  | C2A-C1A-CHA | 2.68  | 128.54      | 123.86   |
| 17  | A     | 834 | CLA  | O2D-CGD-O1D | -2.68 | 118.61      | 123.84   |
| 17  | B     | 803 | CLA  | O2D-CGD-O1D | -2.67 | 118.61      | 123.84   |
| 20  | A     | 846 | BCR  | C37-C22-C21 | -2.67 | 119.18      | 122.92   |
| 17  | 1     | 601 | CLA  | C3A-C2A-C1A | 2.67  | 105.34      | 101.34   |
| 17  | 2     | 611 | CLA  | O2D-CGD-O1D | -2.67 | 118.61      | 123.84   |
| 17  | 2     | 604 | CLA  | C1B-CHB-C4A | -2.67 | 124.83      | 130.12   |
| 25  | 5     | 617 | ZEX  | C15-C35-C34 | -2.67 | 118.00      | 123.47   |
| 17  | A     | 825 | CLA  | O2D-CGD-O1D | -2.67 | 118.62      | 123.84   |
| 25  | 5     | 614 | ZEX  | C12-C13-C14 | -2.67 | 114.84      | 118.94   |
| 17  | B     | 801 | CLA  | C1B-CHB-C4A | -2.67 | 124.83      | 130.12   |
| 25  | 4     | 617 | ZEX  | C8-C7-C6    | -2.67 | 119.71      | 127.20   |
| 17  | 5     | 606 | CLA  | C1B-CHB-C4A | -2.67 | 124.84      | 130.12   |
| 17  | B     | 809 | CLA  | O2A-C1-C2   | -2.66 | 101.63      | 108.64   |
| 17  | A     | 837 | CLA  | C1B-CHB-C4A | -2.66 | 124.84      | 130.12   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25  | 4     | 617 | ZEX  | C37-C21-C26 | -2.66 | 105.98      | 110.30   |
| 20  | A     | 843 | BCR  | C15-C14-C13 | -2.66 | 123.51      | 127.31   |
| 17  | A     | 823 | CLA  | CAA-C2A-C3A | -2.66 | 105.49      | 112.78   |
| 17  | 3     | 205 | CLA  | O2D-CGD-O1D | -2.66 | 118.64      | 123.84   |
| 17  | A     | 809 | CLA  | O2D-CGD-O1D | -2.66 | 118.64      | 123.84   |
| 17  | 1     | 607 | CLA  | C1B-CHB-C4A | -2.66 | 124.85      | 130.12   |
| 16  | A     | 801 | CL0  | C3D-C4D-CHA | -2.66 | 106.64      | 112.72   |
| 17  | 4     | 611 | CLA  | CMB-C2B-C3B | 2.66  | 129.65      | 124.68   |
| 17  | B     | 816 | CLA  | C1B-CHB-C4A | -2.66 | 124.85      | 130.12   |
| 17  | A     | 828 | CLA  | CAA-C2A-C3A | -2.66 | 105.50      | 112.78   |
| 17  | A     | 806 | CLA  | O2D-CGD-CBD | 2.66  | 115.99      | 111.27   |
| 17  | 3     | 213 | CLA  | O2D-CGD-O1D | -2.66 | 118.64      | 123.84   |
| 17  | B     | 811 | CLA  | O2D-CGD-O1D | -2.65 | 118.65      | 123.84   |
| 17  | B     | 839 | CLA  | C1B-CHB-C4A | -2.65 | 124.87      | 130.12   |
| 20  | L     | 205 | BCR  | C27-C26-C25 | 2.65  | 126.57      | 122.73   |
| 17  | B     | 827 | CLA  | C2D-C1D-ND  | -2.65 | 108.15      | 110.10   |
| 17  | B     | 812 | CLA  | C2D-C1D-ND  | -2.64 | 108.16      | 110.10   |
| 25  | 5     | 617 | ZEX  | C27-C28-C29 | -2.64 | 122.24      | 126.23   |
| 20  | A     | 845 | BCR  | C15-C16-C17 | -2.64 | 118.06      | 123.47   |
| 25  | 3     | 218 | ZEX  | C31-C32-C33 | -2.64 | 118.99      | 126.42   |
| 17  | A     | 821 | CLA  | CMB-C2B-C3B | 2.64  | 129.62      | 124.68   |
| 17  | A     | 836 | CLA  | O2D-CGD-CBD | 2.64  | 115.96      | 111.27   |
| 17  | B     | 809 | CLA  | CAA-C2A-C3A | -2.64 | 105.55      | 112.78   |
| 17  | 3     | 203 | CLA  | O2D-CGD-O1D | -2.64 | 118.68      | 123.84   |
| 20  | B     | 850 | BCR  | C11-C10-C9  | -2.64 | 123.54      | 127.31   |
| 17  | O     | 203 | CLA  | CHB-C4A-NA  | 2.64  | 128.16      | 124.51   |
| 20  | F     | 304 | BCR  | C15-C16-C17 | -2.64 | 118.07      | 123.47   |
| 17  | B     | 809 | CLA  | C1B-CHB-C4A | -2.63 | 124.90      | 130.12   |
| 17  | 1     | 604 | CLA  | CHB-C4A-NA  | 2.63  | 128.15      | 124.51   |
| 20  | L     | 201 | BCR  | C15-C14-C13 | -2.63 | 123.56      | 127.31   |
| 17  | A     | 818 | CLA  | CMC-C2C-C3C | 2.63  | 133.25      | 126.12   |
| 17  | 1     | 605 | CLA  | CHB-C4A-NA  | 2.63  | 128.14      | 124.51   |
| 17  | A     | 837 | CLA  | O2D-CGD-O1D | -2.62 | 118.71      | 123.84   |
| 17  | B     | 811 | CLA  | CMB-C2B-C1B | -2.62 | 124.44      | 128.46   |
| 17  | 3     | 208 | CLA  | C1B-CHB-C4A | -2.62 | 124.93      | 130.12   |
| 25  | 3     | 218 | ZEX  | C37-C21-C26 | -2.62 | 106.05      | 110.30   |
| 25  | 3     | 201 | ZEX  | C38-C24-C25 | -2.61 | 106.71      | 110.87   |
| 17  | B     | 816 | CLA  | O2D-CGD-O1D | -2.61 | 118.73      | 123.84   |
| 17  | 1     | 612 | CLA  | CHB-C4A-NA  | 2.61  | 128.12      | 124.51   |
| 17  | 2     | 605 | CLA  | CAA-CBA-CGA | -2.61 | 105.58      | 112.51   |
| 17  | B     | 830 | CLA  | C1B-CHB-C4A | -2.61 | 124.95      | 130.12   |
| 17  | B     | 801 | CLA  | C3C-C4C-NC  | -2.61 | 107.64      | 110.57   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | A     | 815 | CLA  | O2D-CGD-O1D | -2.61 | 118.74      | 123.84   |
| 20  | B     | 845 | BCR  | C7-C8-C9    | -2.60 | 122.30      | 126.23   |
| 25  | 5     | 614 | ZEX  | C11-C12-C13 | -2.60 | 119.10      | 126.42   |
| 17  | 4     | 607 | CLA  | C1B-CHB-C4A | -2.60 | 124.96      | 130.12   |
| 17  | 4     | 601 | CLA  | CMB-C2B-C3B | 2.60  | 129.54      | 124.68   |
| 17  | 3     | 205 | CLA  | CAA-C2A-C3A | -2.60 | 105.66      | 112.78   |
| 20  | A     | 843 | BCR  | C15-C16-C17 | -2.60 | 118.15      | 123.47   |
| 25  | 2     | 614 | ZEX  | C11-C12-C13 | -2.60 | 119.12      | 126.42   |
| 17  | 3     | 212 | CLA  | O2D-CGD-O1D | -2.59 | 118.77      | 123.84   |
| 17  | B     | 813 | CLA  | CHB-C4A-NA  | 2.59  | 128.10      | 124.51   |
| 17  | 1     | 603 | CLA  | CHB-C4A-NA  | 2.59  | 128.10      | 124.51   |
| 25  | 2     | 615 | ZEX  | C3-C4-C5    | 2.59  | 117.02      | 111.85   |
| 17  | B     | 843 | CLA  | CAA-C2A-C3A | -2.59 | 105.68      | 112.78   |
| 17  | B     | 802 | CLA  | C4D-C3D-CAD | -2.59 | 105.04      | 108.10   |
| 17  | B     | 832 | CLA  | C1D-ND-C4D  | 2.59  | 108.18      | 106.33   |
| 17  | 5     | 606 | CLA  | CHD-C1D-C2D | 2.59  | 130.91      | 125.48   |
| 17  | 3     | 209 | CLA  | O2D-CGD-O1D | -2.59 | 118.77      | 123.84   |
| 18  | B     | 844 | PQN  | C16-C17-C18 | -2.59 | 107.55      | 115.92   |
| 25  | 5     | 615 | ZEX  | C3-C4-C5    | 2.59  | 117.01      | 111.85   |
| 20  | B     | 845 | BCR  | C15-C16-C17 | -2.59 | 118.17      | 123.47   |
| 17  | A     | 818 | CLA  | O2D-CGD-O1D | -2.59 | 118.78      | 123.84   |
| 17  | A     | 807 | CLA  | O2A-CGA-O1A | -2.59 | 117.07      | 123.59   |
| 17  | 4     | 606 | CLA  | CMB-C2B-C1B | -2.58 | 124.50      | 128.46   |
| 17  | 3     | 207 | CLA  | C1B-CHB-C4A | -2.58 | 125.00      | 130.12   |
| 17  | 2     | 605 | CLA  | C1B-CHB-C4A | -2.58 | 125.00      | 130.12   |
| 20  | B     | 847 | BCR  | C31-C1-C6   | 2.58  | 114.49      | 110.30   |
| 17  | B     | 811 | CLA  | CBA-CAA-C2A | 2.58  | 121.48      | 113.86   |
| 17  | A     | 826 | CLA  | O2D-CGD-CBD | 2.58  | 115.85      | 111.27   |
| 25  | 2     | 614 | ZEX  | C23-C24-C25 | 2.58  | 113.00      | 109.33   |
| 17  | 1     | 603 | CLA  | CAA-C2A-C3A | -2.58 | 105.72      | 112.78   |
| 17  | A     | 805 | CLA  | O2A-CGA-O1A | -2.58 | 117.09      | 123.59   |
| 17  | 2     | 612 | CLA  | O2D-CGD-O1D | -2.58 | 118.80      | 123.84   |
| 20  | O     | 202 | BCR  | C29-C30-C25 | 2.58  | 114.45      | 110.48   |
| 17  | B     | 818 | CLA  | O1D-CGD-CBD | 2.58  | 129.76      | 124.48   |
| 17  | B     | 826 | CLA  | CHB-C4A-NA  | 2.58  | 128.07      | 124.51   |
| 17  | A     | 833 | CLA  | C1B-CHB-C4A | -2.57 | 125.02      | 130.12   |
| 17  | F     | 302 | CLA  | CAA-C2A-C3A | -2.57 | 105.73      | 112.78   |
| 17  | B     | 843 | CLA  | O2D-CGD-O1D | -2.57 | 118.81      | 123.84   |
| 17  | A     | 835 | CLA  | C1B-CHB-C4A | -2.57 | 125.02      | 130.12   |
| 17  | A     | 838 | CLA  | O2A-CGA-O1A | -2.57 | 117.10      | 123.59   |
| 17  | B     | 827 | CLA  | C1B-CHB-C4A | -2.57 | 125.02      | 130.12   |
| 17  | 2     | 613 | CLA  | CHD-C1D-ND  | -2.57 | 122.09      | 124.45   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | A     | 819 | CLA  | CAA-C2A-C3A | -2.57 | 105.74      | 112.78   |
| 17  | B     | 832 | CLA  | C1B-CHB-C4A | -2.57 | 125.03      | 130.12   |
| 17  | 4     | 606 | CLA  | O2D-CGD-O1D | -2.57 | 118.81      | 123.84   |
| 19  | A     | 841 | LHG  | O8-C23-C24  | 2.57  | 119.97      | 111.91   |
| 23  | B     | 851 | DGD  | C3G-C2G-C1G | -2.57 | 105.71      | 111.79   |
| 16  | A     | 801 | CL0  | CHC-C1C-C2C | -2.57 | 119.62      | 126.72   |
| 17  | B     | 812 | CLA  | CMB-C2B-C3B | 2.57  | 129.48      | 124.68   |
| 17  | A     | 833 | CLA  | CMA-C3A-C2A | -2.57 | 103.48      | 113.83   |
| 17  | 5     | 607 | CLA  | C1B-CHB-C4A | -2.56 | 125.04      | 130.12   |
| 17  | 5     | 612 | CLA  | CMB-C2B-C3B | 2.56  | 129.47      | 124.68   |
| 17  | 1     | 605 | CLA  | O2D-CGD-O1D | -2.56 | 118.27      | 124.09   |
| 17  | A     | 809 | CLA  | O1D-CGD-CBD | 2.56  | 129.73      | 124.48   |
| 17  | A     | 812 | CLA  | C1B-CHB-C4A | -2.56 | 125.04      | 130.12   |
| 17  | J     | 101 | CLA  | C1B-CHB-C4A | -2.56 | 125.04      | 130.12   |
| 19  | A     | 842 | LHG  | C20-C19-C18 | -2.56 | 101.42      | 114.42   |
| 17  | B     | 826 | CLA  | CMB-C2B-C3B | 2.56  | 129.47      | 124.68   |
| 20  | B     | 848 | BCR  | C38-C26-C27 | -2.56 | 108.70      | 113.62   |
| 20  | O     | 202 | BCR  | C7-C8-C9    | -2.56 | 122.37      | 126.23   |
| 17  | A     | 812 | CLA  | C2D-C1D-ND  | -2.56 | 108.22      | 110.10   |
| 17  | 1     | 603 | CLA  | O2D-CGD-O1D | -2.56 | 118.84      | 123.84   |
| 20  | K     | 104 | BCR  | C15-C14-C13 | -2.56 | 123.66      | 127.31   |
| 19  | A     | 841 | LHG  | C11-C10-C9  | -2.56 | 101.44      | 114.42   |
| 17  | J     | 102 | CLA  | C1B-CHB-C4A | -2.56 | 125.06      | 130.12   |
| 17  | B     | 840 | CLA  | CHB-C4A-NA  | 2.55  | 128.04      | 124.51   |
| 16  | A     | 801 | CL0  | CMC-C2C-C3C | 2.55  | 133.05      | 126.12   |
| 17  | A     | 814 | CLA  | CMB-C2B-C3B | 2.55  | 129.46      | 124.68   |
| 17  | A     | 805 | CLA  | C2D-C1D-ND  | -2.55 | 108.22      | 110.10   |
| 17  | A     | 839 | CLA  | C1B-CHB-C4A | -2.55 | 125.07      | 130.12   |
| 20  | B     | 850 | BCR  | C15-C16-C17 | -2.55 | 118.25      | 123.47   |
| 17  | 5     | 603 | CLA  | O1D-CGD-CBD | 2.55  | 129.69      | 124.48   |
| 17  | B     | 810 | CLA  | CMB-C2B-C3B | 2.54  | 129.44      | 124.68   |
| 17  | B     | 840 | CLA  | C1B-CHB-C4A | -2.54 | 125.08      | 130.12   |
| 17  | 5     | 602 | CLA  | O2D-CGD-O1D | -2.54 | 118.87      | 123.84   |
| 20  | B     | 847 | BCR  | C2-C1-C6    | 2.54  | 114.39      | 110.48   |
| 17  | B     | 804 | CLA  | CHA-C1A-NA  | -2.54 | 120.58      | 126.40   |
| 17  | B     | 810 | CLA  | C1B-CHB-C4A | -2.54 | 125.09      | 130.12   |
| 17  | A     | 809 | CLA  | C1B-CHB-C4A | -2.54 | 125.09      | 130.12   |
| 17  | B     | 814 | CLA  | O2D-CGD-O1D | -2.54 | 118.88      | 123.84   |
| 20  | A     | 844 | BCR  | C37-C22-C21 | -2.54 | 119.37      | 122.92   |
| 20  | A     | 845 | BCR  | C27-C26-C25 | 2.54  | 126.41      | 122.73   |
| 17  | L     | 204 | CLA  | C1B-CHB-C4A | -2.54 | 125.09      | 130.12   |
| 20  | J     | 104 | BCR  | C20-C21-C22 | -2.54 | 123.69      | 127.31   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | 3     | 206 | CLA  | CHB-C4A-NA  | 2.53  | 128.02      | 124.51   |
| 17  | 5     | 608 | CLA  | C1B-CHB-C4A | -2.53 | 125.10      | 130.12   |
| 17  | 5     | 607 | CLA  | CAC-C3C-C2C | -2.53 | 123.20      | 127.53   |
| 20  | B     | 849 | BCR  | C20-C21-C22 | -2.53 | 123.70      | 127.31   |
| 17  | 4     | 601 | CLA  | C1B-CHB-C4A | -2.53 | 125.10      | 130.12   |
| 17  | A     | 817 | CLA  | CHB-C4A-NA  | 2.53  | 128.01      | 124.51   |
| 20  | I     | 101 | BCR  | C11-C10-C9  | -2.53 | 123.70      | 127.31   |
| 20  | B     | 805 | BCR  | C27-C26-C25 | 2.53  | 126.41      | 122.73   |
| 25  | 2     | 616 | ZEX  | C18-C5-C4   | -2.53 | 109.67      | 114.36   |
| 17  | L     | 204 | CLA  | CAA-C2A-C3A | -2.53 | 105.85      | 112.78   |
| 25  | 1     | 613 | ZEX  | C17-C1-C6   | -2.53 | 106.20      | 110.30   |
| 17  | B     | 813 | CLA  | O2D-CGD-O1D | -2.53 | 118.90      | 123.84   |
| 17  | B     | 809 | CLA  | CMC-C2C-C1C | -2.53 | 121.19      | 125.04   |
| 17  | 5     | 603 | CLA  | C2A-C1A-CHA | 2.53  | 128.28      | 123.86   |
| 20  | B     | 847 | BCR  | C11-C10-C9  | -2.52 | 123.71      | 127.31   |
| 17  | B     | 822 | CLA  | CMB-C2B-C1B | -2.52 | 124.58      | 128.46   |
| 17  | A     | 836 | CLA  | C1B-CHB-C4A | -2.52 | 125.12      | 130.12   |
| 17  | 5     | 604 | CLA  | CMB-C2B-C3B | 2.52  | 129.40      | 124.68   |
| 17  | B     | 803 | CLA  | CAA-C2A-C3A | -2.52 | 105.87      | 112.78   |
| 25  | 3     | 217 | ZEX  | C4-C5-C6    | -2.52 | 115.23      | 120.85   |
| 17  | 1     | 610 | CLA  | O2D-CGD-O1D | -2.52 | 118.92      | 123.84   |
| 17  | B     | 839 | CLA  | O2D-CGD-O1D | -2.52 | 118.92      | 123.84   |
| 17  | A     | 815 | CLA  | CAA-C2A-C3A | -2.51 | 105.89      | 112.78   |
| 17  | B     | 816 | CLA  | CHB-C4A-NA  | 2.51  | 127.99      | 124.51   |
| 17  | 4     | 610 | CLA  | CMB-C2B-C3B | 2.51  | 129.38      | 124.68   |
| 17  | B     | 814 | CLA  | CMB-C2B-C3B | 2.51  | 129.61      | 124.69   |
| 20  | A     | 844 | BCR  | C11-C10-C9  | -2.51 | 123.73      | 127.31   |
| 17  | 3     | 206 | CLA  | C1B-CHB-C4A | -2.51 | 125.15      | 130.12   |
| 17  | A     | 816 | CLA  | C2A-C1A-CHA | 2.51  | 128.25      | 123.86   |
| 17  | A     | 848 | CLA  | CED-O2D-CGD | 2.51  | 121.61      | 115.94   |
| 17  | 2     | 610 | CLA  | CMA-C3A-C4A | 2.51  | 118.51      | 111.77   |
| 17  | B     | 812 | CLA  | CHB-C4A-NA  | 2.51  | 127.98      | 124.51   |
| 17  | A     | 816 | CLA  | O2D-CGD-O1D | -2.51 | 118.94      | 123.84   |
| 16  | A     | 801 | CL0  | C3D-C4D-ND  | 2.51  | 114.29      | 110.24   |
| 20  | J     | 104 | BCR  | C27-C26-C25 | 2.51  | 126.37      | 122.73   |
| 17  | B     | 841 | CLA  | C1B-CHB-C4A | -2.50 | 125.16      | 130.12   |
| 17  | 5     | 611 | CLA  | CHB-C4A-NA  | 2.50  | 127.97      | 124.51   |
| 17  | 2     | 609 | CLA  | O2D-CGD-O1D | -2.50 | 118.94      | 123.84   |
| 17  | B     | 839 | CLA  | CHD-C1D-ND  | -2.50 | 122.16      | 124.45   |
| 17  | B     | 835 | CLA  | CMB-C2B-C1B | -2.50 | 124.62      | 128.46   |
| 25  | 3     | 218 | ZEX  | C3-C4-C5    | 2.50  | 116.84      | 111.85   |
| 17  | A     | 830 | CLA  | CAA-C2A-C3A | -2.50 | 105.93      | 112.78   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | B     | 802 | CLA  | CAA-C2A-C1A | 2.50  | 120.17      | 111.97   |
| 20  | O     | 202 | BCR  | C40-C30-C25 | 2.50  | 114.35      | 110.30   |
| 17  | A     | 824 | CLA  | C3A-C2A-C1A | 2.50  | 105.08      | 101.34   |
| 20  | F     | 304 | BCR  | C27-C26-C25 | 2.50  | 126.36      | 122.73   |
| 17  | A     | 819 | CLA  | O2D-CGD-O1D | -2.50 | 118.96      | 123.84   |
| 25  | 1     | 616 | ZEX  | C3-C4-C5    | 2.50  | 116.83      | 111.85   |
| 17  | A     | 808 | CLA  | O2D-CGD-O1D | -2.50 | 118.96      | 123.84   |
| 17  | B     | 840 | CLA  | O2D-CGD-O1D | -2.49 | 118.96      | 123.84   |
| 17  | 3     | 204 | CLA  | O2D-CGD-O1D | -2.49 | 118.96      | 123.84   |
| 20  | F     | 304 | BCR  | C31-C1-C6   | 2.49  | 114.34      | 110.30   |
| 17  | A     | 834 | CLA  | C1B-CHB-C4A | -2.49 | 125.18      | 130.12   |
| 17  | B     | 804 | CLA  | O2A-CGA-O1A | -2.49 | 117.30      | 123.59   |
| 20  | A     | 845 | BCR  | C7-C8-C9    | -2.49 | 122.47      | 126.23   |
| 17  | A     | 811 | CLA  | C1B-CHB-C4A | -2.49 | 125.19      | 130.12   |
| 17  | A     | 827 | CLA  | C2D-C1D-ND  | -2.49 | 108.27      | 110.10   |
| 25  | 1     | 614 | ZEX  | C7-C6-C5    | -2.49 | 115.43      | 121.46   |
| 17  | B     | 826 | CLA  | CAA-C2A-C3A | -2.49 | 105.96      | 112.78   |
| 17  | B     | 801 | CLA  | CMA-C3A-C4A | -2.49 | 105.09      | 111.77   |
| 25  | 2     | 614 | ZEX  | C38-C24-C23 | -2.49 | 108.36      | 112.20   |
| 20  | J     | 104 | BCR  | C37-C22-C21 | -2.49 | 119.44      | 122.92   |
| 20  | A     | 845 | BCR  | C34-C9-C10  | -2.49 | 119.44      | 122.92   |
| 17  | A     | 828 | CLA  | C2A-C1A-CHA | 2.48  | 128.20      | 123.86   |
| 17  | A     | 823 | CLA  | CAA-CBA-CGA | -2.48 | 105.99      | 113.25   |
| 17  | B     | 843 | CLA  | C1B-CHB-C4A | -2.48 | 125.20      | 130.12   |
| 17  | A     | 804 | CLA  | C1-C2-C3    | -2.48 | 121.75      | 126.04   |
| 17  | B     | 837 | CLA  | C1B-CHB-C4A | -2.48 | 125.21      | 130.12   |
| 17  | A     | 817 | CLA  | C1B-CHB-C4A | -2.48 | 125.21      | 130.12   |
| 17  | 1     | 610 | CLA  | C1B-CHB-C4A | -2.48 | 125.21      | 130.12   |
| 17  | 2     | 611 | CLA  | C1B-CHB-C4A | -2.48 | 125.21      | 130.12   |
| 20  | O     | 202 | BCR  | C15-C14-C13 | -2.48 | 123.77      | 127.31   |
| 17  | A     | 833 | CLA  | O2D-CGD-O1D | -2.48 | 118.99      | 123.84   |
| 17  | 2     | 608 | CLA  | O2D-CGD-O1D | -2.48 | 119.00      | 123.84   |
| 25  | 4     | 613 | ZEX  | C7-C6-C5    | -2.48 | 115.46      | 121.46   |
| 20  | B     | 846 | BCR  | C15-C16-C17 | -2.48 | 118.40      | 123.47   |
| 20  | A     | 844 | BCR  | C24-C23-C22 | -2.48 | 122.49      | 126.23   |
| 25  | 4     | 612 | ZEX  | C7-C8-C9    | -2.48 | 122.50      | 126.23   |
| 20  | K     | 101 | BCR  | C35-C13-C14 | -2.47 | 119.46      | 122.92   |
| 17  | A     | 830 | CLA  | C1B-CHB-C4A | -2.47 | 125.22      | 130.12   |
| 17  | L     | 202 | CLA  | O2D-CGD-O1D | -2.47 | 119.00      | 123.84   |
| 17  | A     | 826 | CLA  | CAA-C2A-C3A | -2.47 | 106.01      | 112.78   |
| 17  | B     | 837 | CLA  | CMB-C2B-C3B | 2.47  | 129.30      | 124.68   |
| 20  | K     | 104 | BCR  | C3-C4-C5    | -2.47 | 109.67      | 114.08   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | B     | 803 | CLA  | O2A-CGA-O1A | -2.47 | 117.36      | 123.59   |
| 17  | B     | 808 | CLA  | C1B-CHB-C4A | -2.47 | 125.23      | 130.12   |
| 16  | A     | 801 | CL0  | CMA-C3A-C2A | -2.47 | 103.87      | 113.83   |
| 17  | 2     | 612 | CLA  | C1B-CHB-C4A | -2.47 | 125.23      | 130.12   |
| 17  | O     | 205 | CLA  | C2D-C1D-ND  | -2.47 | 108.29      | 110.10   |
| 20  | A     | 844 | BCR  | C1-C6-C5    | -2.47 | 119.14      | 122.61   |
| 17  | B     | 841 | CLA  | O2D-CGD-O1D | -2.46 | 119.02      | 123.84   |
| 17  | A     | 815 | CLA  | C1B-CHB-C4A | -2.46 | 125.24      | 130.12   |
| 17  | B     | 828 | CLA  | C3A-C2A-C1A | 2.46  | 105.03      | 101.34   |
| 17  | A     | 828 | CLA  | C2D-C1D-ND  | -2.46 | 108.29      | 110.10   |
| 17  | B     | 831 | CLA  | C2D-C1D-ND  | -2.46 | 108.29      | 110.10   |
| 17  | B     | 840 | CLA  | O2A-CGA-O1A | -2.46 | 117.38      | 123.59   |
| 17  | A     | 817 | CLA  | C2D-C1D-ND  | -2.46 | 108.29      | 110.10   |
| 17  | B     | 838 | CLA  | C1B-CHB-C4A | -2.46 | 125.25      | 130.12   |
| 17  | B     | 812 | CLA  | CAA-C2A-C3A | -2.46 | 106.05      | 112.78   |
| 20  | A     | 845 | BCR  | C37-C22-C21 | -2.46 | 119.48      | 122.92   |
| 17  | 4     | 607 | CLA  | O2D-CGD-O1D | -2.46 | 119.03      | 123.84   |
| 17  | 3     | 206 | CLA  | C2A-C1A-CHA | 2.46  | 128.15      | 123.86   |
| 17  | A     | 828 | CLA  | C16-C15-C13 | -2.46 | 107.98      | 115.92   |
| 17  | A     | 836 | CLA  | O2A-CGA-O1A | -2.45 | 117.40      | 123.59   |
| 17  | B     | 825 | CLA  | O2D-CGD-O1D | -2.45 | 119.04      | 123.84   |
| 20  | A     | 843 | BCR  | C11-C10-C9  | -2.45 | 123.81      | 127.31   |
| 17  | A     | 805 | CLA  | C3A-C2A-C1A | 2.45  | 105.01      | 101.34   |
| 17  | 2     | 602 | CLA  | CAA-C2A-C3A | -2.45 | 106.06      | 112.78   |
| 17  | A     | 823 | CLA  | O2D-CGD-O1D | -2.45 | 119.05      | 123.84   |
| 17  | L     | 202 | CLA  | C1B-CHB-C4A | -2.45 | 125.26      | 130.12   |
| 20  | K     | 101 | BCR  | C27-C26-C25 | 2.45  | 126.29      | 122.73   |
| 17  | B     | 809 | CLA  | O2D-CGD-O1D | -2.45 | 119.05      | 123.84   |
| 16  | A     | 801 | CL0  | CMB-C2B-C1B | -2.45 | 124.70      | 128.46   |
| 18  | B     | 844 | PQN  | C2M-C2-C3   | -2.45 | 120.41      | 124.40   |
| 17  | 2     | 602 | CLA  | O2D-CGD-O1D | -2.44 | 119.06      | 123.84   |
| 16  | A     | 801 | CL0  | C16-C17-C18 | -2.44 | 104.47      | 115.98   |
| 17  | 2     | 604 | CLA  | C2A-C1A-CHA | 2.44  | 128.13      | 123.86   |
| 17  | A     | 823 | CLA  | C2D-C1D-ND  | -2.44 | 108.31      | 110.10   |
| 17  | A     | 823 | CLA  | C1B-CHB-C4A | -2.44 | 125.28      | 130.12   |
| 17  | A     | 836 | CLA  | C2A-C1A-CHA | 2.44  | 128.12      | 123.86   |
| 17  | B     | 819 | CLA  | C1B-CHB-C4A | -2.44 | 125.29      | 130.12   |
| 20  | K     | 101 | BCR  | C24-C23-C22 | -2.44 | 122.55      | 126.23   |
| 25  | 1     | 615 | ZEX  | C38-C24-C23 | -2.44 | 108.44      | 112.20   |
| 17  | 5     | 601 | CLA  | C1B-CHB-C4A | -2.43 | 125.30      | 130.12   |
| 17  | B     | 828 | CLA  | C1B-CHB-C4A | -2.43 | 125.30      | 130.12   |
| 17  | A     | 807 | CLA  | C1B-CHB-C4A | -2.43 | 125.30      | 130.12   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | 5     | 612 | CLA  | C2A-C1A-CHA | 2.43  | 128.11      | 123.86   |
| 20  | A     | 846 | BCR  | C27-C26-C25 | 2.43  | 126.26      | 122.73   |
| 17  | 5     | 609 | CLA  | O2D-CGD-CBD | 2.43  | 115.59      | 111.27   |
| 17  | F     | 302 | CLA  | C1B-CHB-C4A | -2.43 | 125.30      | 130.12   |
| 17  | A     | 829 | CLA  | O2D-CGD-O1D | -2.43 | 119.09      | 123.84   |
| 17  | 1     | 607 | CLA  | O1A-CGA-CBA | 2.43  | 130.89      | 123.08   |
| 17  | F     | 303 | CLA  | C1B-CHB-C4A | -2.43 | 125.30      | 130.12   |
| 20  | O     | 202 | BCR  | C16-C15-C14 | -2.43 | 118.50      | 123.47   |
| 17  | 1     | 606 | CLA  | O2D-CGD-O1D | -2.43 | 119.09      | 123.84   |
| 17  | 3     | 202 | CLA  | O2D-CGD-O1D | -2.43 | 119.09      | 123.84   |
| 17  | B     | 806 | CLA  | O2A-C1-C2   | -2.43 | 102.25      | 108.64   |
| 17  | 2     | 601 | CLA  | C1B-CHB-C4A | -2.43 | 125.31      | 130.12   |
| 17  | 4     | 603 | CLA  | O2A-CGA-O1A | -2.43 | 117.25      | 123.30   |
| 17  | A     | 819 | CLA  | CHC-C1C-NC  | 2.43  | 127.88      | 124.20   |
| 17  | B     | 842 | CLA  | C1B-CHB-C4A | -2.43 | 125.31      | 130.12   |
| 17  | A     | 828 | CLA  | CMC-C2C-C1C | -2.43 | 121.34      | 125.04   |
| 17  | A     | 807 | CLA  | CHB-C4A-NA  | 2.42  | 127.86      | 124.51   |
| 17  | B     | 804 | CLA  | C4D-CHA-C1A | 2.42  | 124.20      | 121.25   |
| 17  | B     | 817 | CLA  | C1B-CHB-C4A | -2.42 | 125.32      | 130.12   |
| 17  | 1     | 605 | CLA  | CAA-C2A-C3A | -2.42 | 106.15      | 112.78   |
| 17  | A     | 808 | CLA  | CMB-C2B-C3B | 2.42  | 129.21      | 124.68   |
| 17  | 2     | 610 | CLA  | C1B-CHB-C4A | -2.42 | 125.32      | 130.12   |
| 17  | B     | 832 | CLA  | CHC-C1C-NC  | 2.42  | 127.87      | 124.20   |
| 17  | B     | 831 | CLA  | C1B-CHB-C4A | -2.42 | 125.33      | 130.12   |
| 20  | L     | 201 | BCR  | C27-C26-C25 | 2.42  | 126.24      | 122.73   |
| 17  | B     | 802 | CLA  | C1-C2-C3    | -2.42 | 121.86      | 126.04   |
| 17  | B     | 837 | CLA  | C2A-C1A-CHA | 2.42  | 128.09      | 123.86   |
| 25  | 1     | 614 | ZEX  | C8-C7-C6    | -2.42 | 120.42      | 127.20   |
| 17  | 3     | 211 | CLA  | O2D-CGD-CBD | 2.42  | 115.56      | 111.27   |
| 17  | B     | 814 | CLA  | C1B-CHB-C4A | -2.42 | 125.33      | 130.12   |
| 17  | B     | 820 | CLA  | C2A-C1A-CHA | 2.42  | 128.08      | 123.86   |
| 17  | 1     | 612 | CLA  | CHA-C1A-NA  | -2.42 | 120.87      | 126.40   |
| 17  | A     | 831 | CLA  | C1B-CHB-C4A | -2.41 | 125.33      | 130.12   |
| 25  | 5     | 614 | ZEX  | C8-C7-C6    | -2.41 | 120.42      | 127.20   |
| 17  | B     | 808 | CLA  | O2A-CGA-O1A | -2.41 | 117.50      | 123.59   |
| 25  | 1     | 613 | ZEX  | C7-C6-C5    | -2.41 | 115.62      | 121.46   |
| 17  | B     | 836 | CLA  | CMA-C3A-C4A | -2.41 | 105.29      | 111.77   |
| 17  | A     | 839 | CLA  | CMB-C2B-C3B | 2.41  | 129.19      | 124.68   |
| 17  | 2     | 605 | CLA  | C3A-C2A-C1A | 2.41  | 104.95      | 101.34   |
| 17  | B     | 823 | CLA  | CAA-C2A-C3A | -2.41 | 106.18      | 112.78   |
| 17  | A     | 839 | CLA  | CAA-C2A-C3A | -2.41 | 106.19      | 112.78   |
| 17  | A     | 827 | CLA  | CAA-CBA-CGA | -2.41 | 106.22      | 113.25   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25  | 3     | 201 | ZEX  | C18-C5-C4   | -2.40 | 109.90      | 114.36   |
| 17  | A     | 814 | CLA  | O2D-CGD-CBD | 2.40  | 115.54      | 111.27   |
| 17  | B     | 811 | CLA  | C1B-CHB-C4A | -2.40 | 125.36      | 130.12   |
| 17  | 2     | 607 | CLA  | CAA-C2A-C3A | -2.40 | 106.20      | 112.78   |
| 20  | B     | 846 | BCR  | C28-C27-C26 | -2.40 | 109.79      | 114.08   |
| 25  | 3     | 217 | ZEX  | C23-C24-C25 | 2.40  | 112.75      | 109.33   |
| 17  | A     | 811 | CLA  | CAA-C2A-C3A | -2.40 | 106.21      | 112.78   |
| 25  | 4     | 615 | ZEX  | C8-C7-C6    | -2.40 | 120.47      | 127.20   |
| 17  | O     | 201 | CLA  | O2D-CGD-O1D | -2.40 | 119.15      | 123.84   |
| 25  | 3     | 216 | ZEX  | C11-C12-C13 | -2.39 | 119.69      | 126.42   |
| 17  | B     | 811 | CLA  | C3A-C2A-C1A | 2.39  | 104.92      | 101.34   |
| 25  | 3     | 214 | ZEX  | C3-C4-C5    | 2.39  | 116.62      | 111.85   |
| 17  | B     | 802 | CLA  | C3B-C4B-NB  | -2.39 | 106.12      | 109.21   |
| 25  | 3     | 214 | ZEX  | C35-C15-C14 | -2.39 | 118.58      | 123.47   |
| 17  | 4     | 602 | CLA  | C1B-CHB-C4A | -2.39 | 125.39      | 130.12   |
| 23  | B     | 851 | DGD  | CBB-CAB-C9B | -2.39 | 102.31      | 114.42   |
| 17  | B     | 807 | CLA  | C1B-CHB-C4A | -2.39 | 125.39      | 130.12   |
| 20  | A     | 844 | BCR  | C40-C30-C25 | 2.38  | 114.17      | 110.30   |
| 25  | 3     | 218 | ZEX  | C11-C12-C13 | -2.38 | 119.72      | 126.42   |
| 25  | 2     | 615 | ZEX  | C8-C7-C6    | -2.38 | 120.50      | 127.20   |
| 17  | A     | 817 | CLA  | O2D-CGD-O1D | -2.38 | 119.18      | 123.84   |
| 17  | 5     | 612 | CLA  | O2D-CGD-CBD | 2.38  | 115.50      | 111.27   |
| 19  | A     | 841 | LHG  | C20-C19-C18 | -2.38 | 102.33      | 114.42   |
| 17  | B     | 823 | CLA  | C1B-CHB-C4A | -2.38 | 125.40      | 130.12   |
| 25  | 2     | 614 | ZEX  | C35-C15-C14 | -2.38 | 118.60      | 123.47   |
| 17  | A     | 806 | CLA  | CAA-C2A-C3A | -2.38 | 106.26      | 112.78   |
| 17  | A     | 803 | CLA  | O1D-CGD-CBD | 2.38  | 129.36      | 124.48   |
| 17  | 1     | 603 | CLA  | C1B-CHB-C4A | -2.38 | 125.40      | 130.12   |
| 25  | 1     | 616 | ZEX  | C4-C5-C6    | -2.38 | 115.54      | 120.85   |
| 17  | 5     | 608 | CLA  | O2D-CGD-CBD | 2.38  | 115.50      | 111.27   |
| 17  | F     | 301 | CLA  | C1B-CHB-C4A | -2.38 | 125.41      | 130.12   |
| 17  | A     | 821 | CLA  | C1-C2-C3    | -2.38 | 121.93      | 126.04   |
| 20  | B     | 850 | BCR  | C28-C27-C26 | -2.38 | 109.83      | 114.08   |
| 17  | B     | 827 | CLA  | C1-C2-C3    | -2.38 | 121.93      | 126.04   |
| 20  | J     | 104 | BCR  | C7-C8-C9    | -2.37 | 122.65      | 126.23   |
| 19  | A     | 842 | LHG  | C11-C10-C9  | -2.37 | 102.37      | 114.42   |
| 17  | 4     | 607 | CLA  | O2D-CGD-CBD | 2.37  | 115.49      | 111.27   |
| 17  | O     | 204 | CLA  | C1B-CHB-C4A | -2.37 | 125.42      | 130.12   |
| 17  | 1     | 612 | CLA  | C2D-C1D-ND  | -2.37 | 108.36      | 110.10   |
| 20  | I     | 101 | BCR  | C27-C26-C25 | 2.37  | 126.17      | 122.73   |
| 17  | 4     | 605 | CLA  | O2D-CGD-O1D | -2.37 | 118.71      | 124.09   |
| 17  | B     | 802 | CLA  | C2A-C1A-CHA | 2.37  | 128.00      | 123.86   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | 5     | 603 | CLA  | C1B-CHB-C4A | -2.37 | 125.42      | 130.12   |
| 20  | J     | 105 | BCR  | C27-C26-C25 | 2.37  | 126.17      | 122.73   |
| 17  | A     | 810 | CLA  | C1B-CHB-C4A | -2.37 | 125.43      | 130.12   |
| 20  | K     | 104 | BCR  | C27-C26-C25 | 2.37  | 126.17      | 122.73   |
| 25  | 1     | 613 | ZEX  | C31-C32-C33 | -2.37 | 119.77      | 126.42   |
| 17  | B     | 819 | CLA  | CAA-C2A-C3A | -2.37 | 106.30      | 112.78   |
| 17  | B     | 823 | CLA  | O2D-CGD-O1D | -2.37 | 119.21      | 123.84   |
| 17  | F     | 301 | CLA  | O2A-CGA-O1A | -2.37 | 117.62      | 123.59   |
| 17  | 2     | 603 | CLA  | C1B-CHB-C4A | -2.36 | 125.43      | 130.12   |
| 17  | B     | 808 | CLA  | O2D-CGD-CBD | 2.36  | 115.47      | 111.27   |
| 25  | 4     | 616 | ZEX  | C23-C24-C25 | 2.36  | 112.70      | 109.33   |
| 20  | O     | 202 | BCR  | C11-C10-C9  | -2.36 | 123.94      | 127.31   |
| 20  | J     | 104 | BCR  | C28-C27-C26 | -2.36 | 109.86      | 114.08   |
| 20  | L     | 201 | BCR  | C7-C8-C9    | -2.36 | 122.67      | 126.23   |
| 17  | B     | 802 | CLA  | CMA-C3A-C2A | -2.36 | 104.30      | 113.83   |
| 17  | A     | 821 | CLA  | O2D-CGD-O1D | -2.36 | 119.22      | 123.84   |
| 17  | A     | 829 | CLA  | CAA-C2A-C3A | -2.36 | 106.31      | 112.78   |
| 16  | A     | 801 | CL0  | CAC-C3C-C4C | 2.36  | 127.87      | 124.81   |
| 17  | A     | 808 | CLA  | C1B-CHB-C4A | -2.36 | 125.44      | 130.12   |
| 17  | A     | 814 | CLA  | C1B-CHB-C4A | -2.36 | 125.45      | 130.12   |
| 17  | A     | 822 | CLA  | C2A-C1A-CHA | 2.36  | 127.98      | 123.86   |
| 20  | B     | 805 | BCR  | C20-C21-C22 | -2.35 | 123.95      | 127.31   |
| 17  | B     | 818 | CLA  | C1B-CHB-C4A | -2.35 | 125.46      | 130.12   |
| 17  | A     | 848 | CLA  | C3C-C4C-NC  | -2.35 | 107.93      | 110.57   |
| 17  | 5     | 606 | CLA  | CHC-C1C-NC  | 2.35  | 127.77      | 124.20   |
| 17  | 5     | 604 | CLA  | C1B-CHB-C4A | -2.35 | 125.46      | 130.12   |
| 20  | A     | 843 | BCR  | C33-C5-C6   | -2.35 | 121.89      | 124.53   |
| 17  | A     | 821 | CLA  | C2D-C1D-ND  | -2.35 | 108.37      | 110.10   |
| 17  | 5     | 606 | CLA  | C4D-C3D-CAD | 2.35  | 110.86      | 108.10   |
| 17  | B     | 833 | CLA  | C1B-CHB-C4A | -2.35 | 125.47      | 130.12   |
| 17  | B     | 834 | CLA  | O2D-CGD-O1D | -2.35 | 119.25      | 123.84   |
| 17  | B     | 816 | CLA  | CED-O2D-CGD | -2.35 | 110.63      | 115.94   |
| 17  | J     | 103 | CLA  | C1B-CHB-C4A | -2.35 | 125.47      | 130.12   |
| 17  | A     | 825 | CLA  | C2A-C1A-CHA | 2.35  | 127.96      | 123.86   |
| 17  | 1     | 611 | CLA  | O2D-CGD-O1D | -2.35 | 119.25      | 123.84   |
| 17  | B     | 808 | CLA  | C2A-C1A-CHA | 2.34  | 127.96      | 123.86   |
| 25  | 3     | 216 | ZEX  | C35-C15-C14 | -2.34 | 118.68      | 123.47   |
| 17  | B     | 829 | CLA  | C1B-CHB-C4A | -2.34 | 125.48      | 130.12   |
| 25  | 3     | 218 | ZEX  | C12-C13-C14 | -2.34 | 115.35      | 118.94   |
| 17  | K     | 103 | CLA  | C1B-CHB-C4A | -2.34 | 125.48      | 130.12   |
| 25  | 4     | 616 | ZEX  | C21-C26-C27 | -2.34 | 109.16      | 115.78   |
| 17  | B     | 838 | CLA  | C2A-C1A-CHA | 2.34  | 127.95      | 123.86   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | 1     | 606 | CLA  | C1B-CHB-C4A | -2.34 | 125.48      | 130.12   |
| 17  | 3     | 202 | CLA  | C1B-CHB-C4A | -2.34 | 125.49      | 130.12   |
| 17  | 2     | 606 | CLA  | CHD-C1D-ND  | -2.34 | 122.31      | 124.45   |
| 20  | J     | 105 | BCR  | C15-C14-C13 | -2.34 | 123.98      | 127.31   |
| 20  | B     | 849 | BCR  | C27-C26-C25 | 2.33  | 126.12      | 122.73   |
| 17  | B     | 815 | CLA  | C1B-CHB-C4A | -2.33 | 125.50      | 130.12   |
| 17  | B     | 803 | CLA  | C1-C2-C3    | -2.33 | 122.01      | 126.04   |
| 17  | O     | 204 | CLA  | O2A-CGA-O1A | -2.33 | 117.71      | 123.59   |
| 17  | O     | 203 | CLA  | C1B-CHB-C4A | -2.33 | 125.50      | 130.12   |
| 17  | 5     | 605 | CLA  | CAA-C2A-C3A | -2.33 | 106.40      | 112.78   |
| 20  | L     | 206 | BCR  | C27-C26-C25 | 2.33  | 126.11      | 122.73   |
| 25  | 4     | 613 | ZEX  | C21-C26-C27 | -2.33 | 109.19      | 115.78   |
| 17  | B     | 828 | CLA  | O1D-CGD-CBD | 2.33  | 129.25      | 124.48   |
| 17  | 1     | 608 | CLA  | C1B-CHB-C4A | -2.33 | 125.51      | 130.12   |
| 17  | 3     | 204 | CLA  | CAA-C2A-C3A | -2.33 | 106.40      | 112.78   |
| 17  | 5     | 605 | CLA  | C1B-CHB-C4A | -2.33 | 125.51      | 130.12   |
| 17  | B     | 831 | CLA  | CMA-C3A-C2A | -2.33 | 104.44      | 113.83   |
| 25  | 1     | 614 | ZEX  | C38-C24-C25 | -2.33 | 107.17      | 110.87   |
| 17  | A     | 829 | CLA  | C1B-CHB-C4A | -2.33 | 125.51      | 130.12   |
| 17  | B     | 821 | CLA  | C1B-CHB-C4A | -2.33 | 125.51      | 130.12   |
| 17  | A     | 814 | CLA  | CHD-C1D-ND  | -2.33 | 122.32      | 124.45   |
| 23  | B     | 851 | DGD  | C5B-C4B-C3B | -2.32 | 102.62      | 114.42   |
| 25  | 3     | 217 | ZEX  | C11-C12-C13 | -2.32 | 119.89      | 126.42   |
| 17  | A     | 827 | CLA  | O2A-C1-C2   | -2.32 | 102.53      | 108.64   |
| 17  | A     | 814 | CLA  | CAA-C2A-C3A | -2.32 | 106.41      | 112.78   |
| 17  | A     | 812 | CLA  | CAA-C2A-C3A | -2.32 | 106.42      | 112.78   |
| 17  | 5     | 608 | CLA  | C2A-C1A-CHA | 2.32  | 127.92      | 123.86   |
| 17  | 4     | 601 | CLA  | CMC-C2C-C1C | -2.32 | 121.50      | 125.04   |
| 25  | 4     | 616 | ZEX  | C7-C8-C9    | -2.32 | 122.73      | 126.23   |
| 25  | 3     | 217 | ZEX  | C7-C8-C9    | -2.32 | 122.73      | 126.23   |
| 25  | 2     | 617 | ZEX  | C35-C15-C14 | -2.32 | 118.72      | 123.47   |
| 17  | 3     | 212 | CLA  | C2A-C1A-CHA | 2.32  | 127.91      | 123.86   |
| 20  | B     | 846 | BCR  | C24-C23-C22 | -2.32 | 122.73      | 126.23   |
| 17  | B     | 817 | CLA  | O2D-CGD-O1D | -2.32 | 119.31      | 123.84   |
| 17  | 3     | 208 | CLA  | O2D-CGD-O1D | -2.32 | 119.31      | 123.84   |
| 17  | 3     | 202 | CLA  | CAA-C2A-C3A | -2.32 | 106.44      | 112.78   |
| 17  | A     | 811 | CLA  | O2A-CGA-O1A | -2.31 | 117.75      | 123.59   |
| 25  | 4     | 612 | ZEX  | C11-C12-C13 | -2.31 | 119.92      | 126.42   |
| 17  | B     | 835 | CLA  | C1B-CHB-C4A | -2.31 | 125.54      | 130.12   |
| 19  | A     | 841 | LHG  | C27-C26-C25 | -2.31 | 102.69      | 114.42   |
| 17  | B     | 836 | CLA  | O2D-CGD-O1D | -2.31 | 119.32      | 123.84   |
| 17  | A     | 823 | CLA  | O1D-CGD-CBD | 2.31  | 129.21      | 124.48   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 20  | B     | 848 | BCR  | C37-C22-C21 | -2.31 | 119.69      | 122.92   |
| 17  | B     | 830 | CLA  | O2D-CGD-O1D | -2.31 | 119.32      | 123.84   |
| 17  | B     | 810 | CLA  | O2D-CGD-CBD | 2.31  | 115.37      | 111.27   |
| 17  | B     | 811 | CLA  | CMB-C2B-C3B | 2.31  | 129.00      | 124.68   |
| 17  | O     | 201 | CLA  | C1B-CHB-C4A | -2.31 | 125.55      | 130.12   |
| 17  | 4     | 611 | CLA  | C1B-CHB-C4A | -2.31 | 125.55      | 130.12   |
| 17  | B     | 825 | CLA  | CMB-C2B-C3B | 2.31  | 128.99      | 124.68   |
| 25  | 4     | 617 | ZEX  | C31-C32-C33 | -2.31 | 119.94      | 126.42   |
| 25  | 3     | 214 | ZEX  | C8-C7-C6    | -2.31 | 120.73      | 127.20   |
| 19  | A     | 842 | LHG  | C18-C17-C16 | -2.30 | 102.72      | 114.42   |
| 17  | 3     | 209 | CLA  | C1B-CHB-C4A | -2.30 | 125.55      | 130.12   |
| 17  | 1     | 606 | CLA  | C2D-C1D-ND  | -2.30 | 108.41      | 110.10   |
| 20  | K     | 104 | BCR  | C24-C23-C22 | -2.30 | 122.75      | 126.23   |
| 17  | B     | 838 | CLA  | CHA-C1A-NA  | -2.30 | 121.13      | 126.40   |
| 25  | 2     | 616 | ZEX  | C4-C5-C6    | -2.30 | 115.72      | 120.85   |
| 17  | A     | 827 | CLA  | O2D-CGD-CBD | 2.30  | 115.36      | 111.27   |
| 17  | B     | 802 | CLA  | O2D-CGD-O1D | -2.30 | 119.34      | 123.84   |
| 17  | B     | 827 | CLA  | O2D-CGD-O1D | -2.30 | 119.34      | 123.84   |
| 17  | B     | 814 | CLA  | O2A-CGA-O1A | -2.30 | 117.79      | 123.59   |
| 20  | A     | 845 | BCR  | C15-C14-C13 | -2.30 | 124.03      | 127.31   |
| 17  | A     | 806 | CLA  | C1B-CHB-C4A | -2.30 | 125.56      | 130.12   |
| 17  | 2     | 605 | CLA  | CHD-C1D-ND  | -2.30 | 122.34      | 124.45   |
| 17  | 3     | 209 | CLA  | C6-C5-C3    | -2.30 | 110.86      | 114.62   |
| 17  | B     | 811 | CLA  | C1-C2-C3    | -2.30 | 122.07      | 126.04   |
| 25  | 4     | 616 | ZEX  | C11-C12-C13 | -2.30 | 119.97      | 126.42   |
| 20  | A     | 844 | BCR  | C27-C26-C25 | 2.30  | 126.06      | 122.73   |
| 17  | 3     | 206 | CLA  | C1D-ND-C4D  | 2.29  | 107.97      | 106.33   |
| 17  | 2     | 608 | CLA  | O2A-CGA-O1A | -2.29 | 117.80      | 123.59   |
| 17  | B     | 802 | CLA  | O2A-CGA-O1A | -2.29 | 117.81      | 123.59   |
| 17  | 2     | 609 | CLA  | C2D-C1D-ND  | -2.29 | 108.42      | 110.10   |
| 20  | B     | 805 | BCR  | C37-C22-C21 | -2.29 | 119.72      | 122.92   |
| 17  | A     | 827 | CLA  | CMD-C2D-C1D | -2.29 | 120.68      | 124.71   |
| 17  | A     | 813 | CLA  | O2D-CGD-O1D | -2.29 | 119.36      | 123.84   |
| 17  | 4     | 603 | CLA  | C2A-C1A-CHA | 2.29  | 127.86      | 123.86   |
| 17  | 1     | 606 | CLA  | CAA-C2A-C3A | -2.29 | 106.51      | 112.78   |
| 17  | B     | 812 | CLA  | C1B-CHB-C4A | -2.29 | 125.59      | 130.12   |
| 23  | B     | 851 | DGD  | CFB-CEB-CDB | -2.29 | 102.82      | 114.42   |
| 17  | 2     | 609 | CLA  | C1B-CHB-C4A | -2.29 | 125.59      | 130.12   |
| 25  | 2     | 615 | ZEX  | C21-C26-C27 | -2.28 | 109.32      | 115.78   |
| 17  | A     | 835 | CLA  | CHA-C1A-NA  | -2.28 | 121.17      | 126.40   |
| 17  | A     | 814 | CLA  | C2A-C1A-CHA | 2.28  | 127.85      | 123.86   |
| 17  | 4     | 602 | CLA  | CAA-CBA-CGA | 2.28  | 119.92      | 113.25   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 25  | 4     | 616 | ZEX  | C17-C1-C6   | -2.28 | 106.60      | 110.30   |
| 25  | 3     | 201 | ZEX  | C7-C6-C5    | -2.28 | 115.94      | 121.46   |
| 17  | 5     | 607 | CLA  | O2A-CGA-O1A | -2.28 | 117.61      | 123.30   |
| 17  | B     | 835 | CLA  | O2D-CGD-O1D | -2.28 | 119.38      | 123.84   |
| 17  | A     | 805 | CLA  | C2A-C1A-CHA | 2.28  | 127.85      | 123.86   |
| 17  | 2     | 606 | CLA  | C1B-CHB-C4A | -2.28 | 125.60      | 130.12   |
| 17  | 4     | 601 | CLA  | CHC-C1C-NC  | 2.28  | 127.66      | 124.20   |
| 17  | 1     | 602 | CLA  | C1B-CHB-C4A | -2.28 | 125.60      | 130.12   |
| 17  | K     | 103 | CLA  | O2D-CGD-O1D | -2.28 | 119.38      | 123.84   |
| 17  | A     | 821 | CLA  | C1B-CHB-C4A | -2.28 | 125.60      | 130.12   |
| 17  | A     | 824 | CLA  | C1B-CHB-C4A | -2.28 | 125.60      | 130.12   |
| 17  | 3     | 208 | CLA  | C2A-C1A-CHA | 2.28  | 127.84      | 123.86   |
| 17  | 5     | 611 | CLA  | CAA-C2A-C3A | -2.28 | 106.54      | 112.78   |
| 25  | 1     | 616 | ZEX  | C38-C24-C23 | -2.28 | 108.68      | 112.20   |
| 25  | 5     | 614 | ZEX  | C22-C23-C24 | 2.28  | 116.83      | 111.76   |
| 17  | B     | 804 | CLA  | O2D-CGD-O1D | -2.28 | 119.39      | 123.84   |
| 17  | B     | 830 | CLA  | O2A-CGA-O1A | -2.28 | 117.85      | 123.59   |
| 17  | J     | 103 | CLA  | C2A-C1A-CHA | 2.27  | 127.83      | 123.86   |
| 17  | 1     | 604 | CLA  | C1B-CHB-C4A | -2.27 | 125.62      | 130.12   |
| 17  | A     | 807 | CLA  | CED-O2D-CGD | -2.27 | 110.80      | 115.94   |
| 17  | A     | 827 | CLA  | C3B-C4B-NB  | -2.27 | 106.28      | 109.21   |
| 16  | A     | 801 | CL0  | C14-C13-C12 | -2.27 | 103.07      | 111.29   |
| 17  | 3     | 210 | CLA  | C1B-CHB-C4A | -2.27 | 125.62      | 130.12   |
| 17  | K     | 102 | CLA  | C1B-CHB-C4A | -2.27 | 125.62      | 130.12   |
| 20  | B     | 845 | BCR  | C27-C26-C25 | 2.27  | 126.02      | 122.73   |
| 17  | A     | 826 | CLA  | O2D-CGD-O1D | -2.27 | 119.41      | 123.84   |
| 17  | 1     | 610 | CLA  | C2A-C1A-CHA | 2.27  | 127.82      | 123.86   |
| 17  | 5     | 609 | CLA  | CHD-C1D-ND  | -2.26 | 122.37      | 124.45   |
| 17  | B     | 812 | CLA  | CAC-C3C-C4C | 2.26  | 127.75      | 124.81   |
| 17  | 3     | 206 | CLA  | CHA-C1A-NA  | -2.26 | 121.21      | 126.40   |
| 17  | B     | 802 | CLA  | CAA-C2A-C3A | -2.26 | 106.58      | 112.78   |
| 17  | A     | 816 | CLA  | CHA-C1A-NA  | -2.26 | 121.22      | 126.40   |
| 17  | A     | 823 | CLA  | CMB-C2B-C3B | 2.26  | 128.91      | 124.68   |
| 20  | B     | 845 | BCR  | C15-C14-C13 | -2.26 | 124.08      | 127.31   |
| 17  | B     | 824 | CLA  | CAA-C2A-C3A | -2.26 | 106.58      | 112.78   |
| 17  | B     | 822 | CLA  | C2A-C1A-CHA | 2.26  | 127.81      | 123.86   |
| 17  | A     | 833 | CLA  | CMA-C3A-C4A | -2.26 | 105.70      | 111.77   |
| 17  | 5     | 601 | CLA  | CAA-C2A-C3A | -2.26 | 106.59      | 112.78   |
| 17  | 3     | 213 | CLA  | C1B-CHB-C4A | -2.26 | 125.64      | 130.12   |
| 20  | B     | 847 | BCR  | C15-C16-C17 | -2.26 | 118.85      | 123.47   |
| 19  | A     | 842 | LHG  | C27-C26-C25 | -2.26 | 102.96      | 114.42   |
| 17  | 5     | 612 | CLA  | C3A-C2A-C1A | 2.26  | 104.72      | 101.34   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | 4     | 607 | CLA  | CMA-C3A-C4A | -2.26 | 105.71      | 111.77   |
| 17  | 5     | 602 | CLA  | C1B-CHB-C4A | -2.26 | 125.65      | 130.12   |
| 17  | B     | 829 | CLA  | C2A-C1A-CHA | 2.26  | 127.80      | 123.86   |
| 17  | B     | 827 | CLA  | CMA-C3A-C4A | -2.26 | 105.71      | 111.77   |
| 17  | A     | 815 | CLA  | O2A-CGA-O1A | -2.25 | 117.90      | 123.59   |
| 17  | O     | 204 | CLA  | C2A-C1A-CHA | 2.25  | 127.80      | 123.86   |
| 17  | A     | 806 | CLA  | CAA-C2A-C1A | -2.25 | 104.59      | 111.97   |
| 25  | 2     | 616 | ZEX  | C35-C15-C14 | -2.25 | 118.86      | 123.47   |
| 25  | 1     | 615 | ZEX  | C17-C1-C6   | -2.25 | 106.64      | 110.30   |
| 17  | B     | 807 | CLA  | CAA-C2A-C3A | -2.25 | 106.61      | 112.78   |
| 25  | 4     | 612 | ZEX  | C4-C5-C6    | -2.25 | 115.83      | 120.85   |
| 17  | 2     | 601 | CLA  | CHD-C1D-ND  | -2.25 | 122.39      | 124.45   |
| 17  | 2     | 605 | CLA  | O2D-CGD-O1D | -2.25 | 119.44      | 123.84   |
| 17  | B     | 830 | CLA  | C2A-C1A-CHA | 2.25  | 127.80      | 123.86   |
| 17  | B     | 836 | CLA  | CAA-C2A-C3A | -2.25 | 106.61      | 112.78   |
| 17  | B     | 839 | CLA  | CMA-C3A-C4A | -2.25 | 105.72      | 111.77   |
| 20  | J     | 104 | BCR  | C15-C14-C13 | -2.25 | 124.10      | 127.31   |
| 17  | A     | 836 | CLA  | C4-C3-C5    | 2.25  | 119.05      | 115.27   |
| 17  | 4     | 609 | CLA  | C1B-CHB-C4A | -2.25 | 125.67      | 130.12   |
| 17  | L     | 203 | CLA  | C1B-CHB-C4A | -2.25 | 125.67      | 130.12   |
| 25  | 5     | 614 | ZEX  | C31-C32-C33 | -2.25 | 120.11      | 126.42   |
| 17  | B     | 825 | CLA  | C1B-CHB-C4A | -2.24 | 125.67      | 130.12   |
| 17  | B     | 812 | CLA  | O2A-CGA-O1A | -2.24 | 117.93      | 123.59   |
| 17  | 3     | 204 | CLA  | C1B-CHB-C4A | -2.24 | 125.67      | 130.12   |
| 17  | 3     | 213 | CLA  | O2A-CGA-O1A | -2.24 | 117.93      | 123.59   |
| 17  | A     | 804 | CLA  | C1B-CHB-C4A | -2.24 | 125.68      | 130.12   |
| 17  | B     | 813 | CLA  | O2D-CGD-CBD | 2.24  | 115.25      | 111.27   |
| 20  | O     | 202 | BCR  | C28-C27-C26 | -2.24 | 110.08      | 114.08   |
| 17  | B     | 804 | CLA  | CAA-C2A-C3A | -2.24 | 106.65      | 112.78   |
| 25  | 1     | 613 | ZEX  | C21-C26-C27 | -2.24 | 109.45      | 115.78   |
| 17  | A     | 824 | CLA  | O2D-CGD-O1D | -2.24 | 119.47      | 123.84   |
| 17  | A     | 837 | CLA  | C2A-C1A-CHA | 2.24  | 127.77      | 123.86   |
| 17  | B     | 826 | CLA  | O2A-CGA-O1A | -2.24 | 117.95      | 123.59   |
| 23  | B     | 851 | DGD  | CAB-C9B-C8B | -2.24 | 103.08      | 114.42   |
| 17  | B     | 820 | CLA  | CAA-C2A-C3A | -2.23 | 106.66      | 112.78   |
| 25  | 3     | 218 | ZEX  | C38-C24-C23 | -2.23 | 108.75      | 112.20   |
| 17  | B     | 824 | CLA  | C1B-CHB-C4A | -2.23 | 125.70      | 130.12   |
| 17  | 5     | 609 | CLA  | C1B-CHB-C4A | -2.23 | 125.70      | 130.12   |
| 17  | A     | 811 | CLA  | C2A-C1A-CHA | 2.23  | 127.76      | 123.86   |
| 17  | B     | 808 | CLA  | CMB-C2B-C3B | 2.23  | 128.85      | 124.68   |
| 25  | 2     | 617 | ZEX  | C4-C5-C6    | -2.23 | 115.88      | 120.85   |
| 17  | A     | 825 | CLA  | CAA-C2A-C3A | -2.23 | 106.67      | 112.78   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | B     | 835 | CLA  | CAA-C2A-C3A | -2.23 | 106.67      | 112.78   |
| 17  | 5     | 611 | CLA  | CHD-C1D-ND  | -2.23 | 122.41      | 124.45   |
| 20  | A     | 846 | BCR  | C38-C26-C27 | -2.23 | 109.34      | 113.62   |
| 17  | B     | 832 | CLA  | C6-C7-C8    | -2.23 | 108.72      | 115.92   |
| 17  | 4     | 604 | CLA  | C1B-CHB-C4A | -2.23 | 125.71      | 130.12   |
| 25  | 4     | 614 | ZEX  | C38-C24-C23 | -2.22 | 108.76      | 112.20   |
| 17  | 3     | 213 | CLA  | C2A-C1A-CHA | 2.22  | 127.75      | 123.86   |
| 17  | B     | 806 | CLA  | C1B-CHB-C4A | -2.22 | 125.71      | 130.12   |
| 17  | B     | 809 | CLA  | CHC-C1C-NC  | 2.22  | 127.58      | 124.20   |
| 17  | 1     | 605 | CLA  | C1B-CHB-C4A | -2.22 | 125.71      | 130.12   |
| 20  | A     | 844 | BCR  | C2-C1-C6    | 2.22  | 113.90      | 110.48   |
| 17  | 5     | 606 | CLA  | C1D-ND-C4D  | 2.22  | 107.91      | 106.33   |
| 25  | 5     | 615 | ZEX  | C8-C7-C6    | -2.22 | 120.96      | 127.20   |
| 17  | B     | 826 | CLA  | C1B-CHB-C4A | -2.22 | 125.72      | 130.12   |
| 17  | A     | 803 | CLA  | CHC-C1C-NC  | 2.22  | 127.57      | 124.20   |
| 17  | A     | 807 | CLA  | CMA-C3A-C4A | 2.22  | 117.74      | 111.77   |
| 17  | 3     | 208 | CLA  | CHA-C1A-NA  | -2.22 | 121.32      | 126.40   |
| 25  | 1     | 614 | ZEX  | C35-C15-C14 | -2.22 | 118.94      | 123.47   |
| 17  | B     | 843 | CLA  | C2A-C1A-CHA | 2.21  | 127.73      | 123.86   |
| 25  | 1     | 616 | ZEX  | C23-C24-C25 | 2.21  | 112.48      | 109.33   |
| 17  | A     | 824 | CLA  | CHD-C1D-ND  | -2.21 | 122.42      | 124.45   |
| 17  | 4     | 610 | CLA  | C1B-CHB-C4A | -2.21 | 125.74      | 130.12   |
| 17  | B     | 810 | CLA  | O2A-CGA-O1A | -2.21 | 118.01      | 123.59   |
| 25  | 4     | 613 | ZEX  | C11-C12-C13 | -2.21 | 120.20      | 126.42   |
| 25  | 2     | 614 | ZEX  | C2-C3-C4    | 2.21  | 113.33      | 110.30   |
| 17  | K     | 102 | CLA  | C2A-C1A-CHA | 2.21  | 127.72      | 123.86   |
| 25  | 4     | 615 | ZEX  | C3-C4-C5    | 2.21  | 116.25      | 111.85   |
| 17  | B     | 835 | CLA  | CHD-C1D-ND  | -2.21 | 122.43      | 124.45   |
| 17  | B     | 837 | CLA  | O2D-CGD-O1D | -2.21 | 119.52      | 123.84   |
| 17  | A     | 811 | CLA  | CHA-C1A-NA  | -2.21 | 121.35      | 126.40   |
| 17  | A     | 848 | CLA  | CHD-C4C-C3C | 2.20  | 128.08      | 124.84   |
| 17  | 1     | 609 | CLA  | C1B-CHB-C4A | -2.20 | 125.75      | 130.12   |
| 20  | K     | 101 | BCR  | C11-C10-C9  | -2.20 | 124.17      | 127.31   |
| 17  | 5     | 604 | CLA  | O2D-CGD-O1D | -2.20 | 119.53      | 123.84   |
| 25  | 1     | 615 | ZEX  | C3-C4-C5    | 2.20  | 116.24      | 111.85   |
| 17  | A     | 802 | CLA  | C2A-C1A-CHA | 2.20  | 127.71      | 123.86   |
| 17  | A     | 831 | CLA  | O2A-CGA-O1A | -2.20 | 118.04      | 123.59   |
| 20  | B     | 805 | BCR  | C35-C13-C14 | -2.20 | 119.84      | 122.92   |
| 17  | 3     | 202 | CLA  | C2A-C1A-CHA | 2.20  | 127.70      | 123.86   |
| 17  | A     | 832 | CLA  | O2A-CGA-O1A | -2.20 | 118.05      | 123.59   |
| 17  | B     | 829 | CLA  | O2D-CGD-CBD | 2.20  | 115.17      | 111.27   |
| 17  | A     | 831 | CLA  | CAA-C2A-C3A | -2.19 | 106.77      | 112.78   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | 1     | 611 | CLA  | C1B-CHB-C4A | -2.19 | 125.77      | 130.12   |
| 17  | B     | 820 | CLA  | C1D-ND-C4D  | 2.19  | 107.89      | 106.33   |
| 17  | 3     | 202 | CLA  | O2A-CGA-O1A | -2.19 | 117.84      | 123.30   |
| 17  | A     | 807 | CLA  | C2D-C1D-ND  | -2.19 | 108.49      | 110.10   |
| 17  | A     | 806 | CLA  | C3A-C2A-C1A | 2.19  | 104.61      | 101.34   |
| 17  | A     | 836 | CLA  | C3A-C2A-C1A | 2.19  | 104.61      | 101.34   |
| 17  | A     | 818 | CLA  | C1B-CHB-C4A | -2.19 | 125.78      | 130.12   |
| 17  | A     | 813 | CLA  | C1B-CHB-C4A | -2.19 | 125.79      | 130.12   |
| 17  | 4     | 605 | CLA  | C2A-C1A-CHA | 2.19  | 127.68      | 123.86   |
| 17  | B     | 820 | CLA  | C2D-C1D-ND  | -2.19 | 108.49      | 110.10   |
| 17  | B     | 834 | CLA  | C2A-C1A-CHA | 2.19  | 127.68      | 123.86   |
| 17  | 4     | 611 | CLA  | O2D-CGD-CBD | 2.18  | 115.15      | 111.27   |
| 17  | B     | 831 | CLA  | CAA-C2A-C3A | -2.18 | 106.80      | 112.78   |
| 17  | A     | 803 | CLA  | C2A-C1A-CHA | 2.18  | 127.68      | 123.86   |
| 17  | 3     | 211 | CLA  | C1B-CHB-C4A | -2.18 | 125.79      | 130.12   |
| 25  | 1     | 613 | ZEX  | C38-C24-C23 | -2.18 | 108.83      | 112.20   |
| 17  | A     | 833 | CLA  | CHD-C1D-ND  | -2.18 | 122.45      | 124.45   |
| 17  | A     | 828 | CLA  | O2A-CGA-O1A | -2.18 | 118.08      | 123.59   |
| 17  | A     | 831 | CLA  | CBA-CAA-C2A | -2.18 | 107.42      | 113.86   |
| 17  | 1     | 604 | CLA  | O2D-CGD-O1D | -2.18 | 119.57      | 123.84   |
| 17  | B     | 810 | CLA  | CHD-C1D-ND  | -2.18 | 122.45      | 124.45   |
| 17  | 5     | 610 | CLA  | C2A-C1A-CHA | 2.18  | 127.67      | 123.86   |
| 25  | 4     | 616 | ZEX  | C3-C4-C5    | 2.18  | 116.19      | 111.85   |
| 17  | 5     | 604 | CLA  | C2A-C1A-CHA | 2.18  | 127.67      | 123.86   |
| 17  | 5     | 608 | CLA  | O2A-CGA-O1A | -2.18 | 117.87      | 123.30   |
| 20  | B     | 846 | BCR  | C39-C30-C25 | 2.18  | 113.83      | 110.30   |
| 17  | B     | 811 | CLA  | O2A-CGA-CBA | 2.18  | 118.74      | 111.91   |
| 17  | L     | 204 | CLA  | O2A-CGA-O1A | -2.18 | 118.10      | 123.59   |
| 17  | 5     | 611 | CLA  | C1B-CHB-C4A | -2.17 | 125.81      | 130.12   |
| 17  | 2     | 613 | CLA  | CAA-C2A-C3A | -2.17 | 106.83      | 112.78   |
| 17  | 5     | 603 | CLA  | O2A-CGA-O1A | -2.17 | 118.11      | 123.59   |
| 25  | 3     | 218 | ZEX  | C21-C26-C27 | -2.17 | 109.63      | 115.78   |
| 17  | A     | 802 | CLA  | O2D-CGD-CBD | 2.17  | 115.13      | 111.27   |
| 17  | B     | 816 | CLA  | C2A-C1A-CHA | 2.17  | 127.66      | 123.86   |
| 17  | 2     | 606 | CLA  | O2A-CGA-O1A | -2.17 | 117.89      | 123.30   |
| 17  | B     | 806 | CLA  | O2A-CGA-O1A | -2.17 | 118.11      | 123.59   |
| 17  | 1     | 609 | CLA  | O2D-CGD-O1D | -2.17 | 119.59      | 123.84   |
| 20  | A     | 845 | BCR  | C33-C5-C6   | -2.17 | 122.09      | 124.53   |
| 17  | 2     | 607 | CLA  | C2A-C1A-CHA | 2.17  | 127.65      | 123.86   |
| 25  | 4     | 614 | ZEX  | C21-C26-C27 | -2.17 | 109.65      | 115.78   |
| 17  | A     | 811 | CLA  | CMA-C3A-C4A | -2.17 | 105.95      | 111.77   |
| 17  | A     | 823 | CLA  | CAC-C3C-C4C | 2.17  | 127.62      | 124.81   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | A     | 848 | CLA  | C2A-C1A-CHA | 2.17  | 127.65      | 123.86   |
| 25  | 4     | 615 | ZEX  | C4-C5-C6    | -2.17 | 116.02      | 120.85   |
| 20  | K     | 101 | BCR  | C7-C8-C9    | -2.17 | 122.96      | 126.23   |
| 20  | J     | 104 | BCR  | C11-C10-C9  | -2.17 | 124.22      | 127.31   |
| 17  | L     | 202 | CLA  | CMB-C2B-C3B | 2.17  | 128.73      | 124.68   |
| 25  | 2     | 614 | ZEX  | C21-C26-C27 | -2.17 | 109.65      | 115.78   |
| 17  | B     | 828 | CLA  | CHB-C4A-NA  | 2.16  | 127.50      | 124.51   |
| 17  | F     | 301 | CLA  | CAA-CBA-CGA | -2.16 | 106.93      | 113.25   |
| 17  | 4     | 608 | CLA  | C2D-C1D-ND  | -2.16 | 108.51      | 110.10   |
| 17  | 5     | 613 | CLA  | C2A-C1A-CHA | 2.16  | 127.64      | 123.86   |
| 17  | 2     | 609 | CLA  | CMA-C3A-C2A | -2.16 | 111.05      | 116.10   |
| 17  | A     | 823 | CLA  | C2A-C1A-CHA | 2.16  | 127.64      | 123.86   |
| 17  | B     | 838 | CLA  | CBA-CAA-C2A | -2.16 | 107.48      | 113.86   |
| 17  | 1     | 608 | CLA  | C2A-C1A-CHA | 2.16  | 127.64      | 123.86   |
| 17  | B     | 808 | CLA  | CMA-C3A-C4A | -2.16 | 105.97      | 111.77   |
| 17  | 5     | 607 | CLA  | C3B-C4B-NB  | -2.16 | 106.42      | 109.21   |
| 17  | L     | 204 | CLA  | C2A-C1A-CHA | 2.16  | 127.64      | 123.86   |
| 25  | 3     | 215 | ZEX  | C31-C32-C33 | -2.16 | 120.35      | 126.42   |
| 17  | B     | 818 | CLA  | C2A-C1A-CHA | 2.16  | 127.63      | 123.86   |
| 20  | O     | 202 | BCR  | C16-C17-C18 | -2.16 | 124.23      | 127.31   |
| 17  | O     | 204 | CLA  | CAC-C3C-C4C | 2.16  | 127.61      | 124.81   |
| 17  | 4     | 605 | CLA  | C1B-CHB-C4A | -2.16 | 125.84      | 130.12   |
| 20  | L     | 201 | BCR  | C24-C23-C22 | -2.16 | 122.98      | 126.23   |
| 17  | 1     | 601 | CLA  | C2A-C1A-CHA | 2.16  | 127.63      | 123.86   |
| 25  | 2     | 614 | ZEX  | C37-C21-C26 | -2.16 | 106.80      | 110.30   |
| 17  | A     | 828 | CLA  | CMC-C2C-C3C | 2.16  | 131.97      | 126.12   |
| 17  | 3     | 206 | CLA  | CAA-C2A-C3A | -2.16 | 106.88      | 112.78   |
| 17  | 4     | 608 | CLA  | C2A-C1A-CHA | 2.15  | 127.63      | 123.86   |
| 17  | A     | 834 | CLA  | C2A-C1A-CHA | 2.15  | 127.63      | 123.86   |
| 17  | 5     | 602 | CLA  | CMA-C3A-C2A | -2.15 | 105.14      | 113.83   |
| 17  | O     | 203 | CLA  | C2A-C1A-CHA | 2.15  | 127.61      | 123.85   |
| 25  | 5     | 615 | ZEX  | C11-C12-C13 | -2.15 | 120.37      | 126.42   |
| 25  | 1     | 615 | ZEX  | C8-C7-C6    | -2.15 | 121.16      | 127.20   |
| 17  | A     | 828 | CLA  | CHA-C1A-NA  | -2.15 | 121.47      | 126.40   |
| 17  | A     | 820 | CLA  | CAA-C2A-C3A | -2.15 | 106.89      | 112.78   |
| 17  | B     | 831 | CLA  | CHB-C4A-NA  | 2.15  | 127.49      | 124.51   |
| 20  | A     | 846 | BCR  | C16-C15-C14 | -2.15 | 119.07      | 123.47   |
| 17  | A     | 804 | CLA  | O2D-CGD-O1D | -2.15 | 119.64      | 123.84   |
| 17  | 2     | 602 | CLA  | C1B-CHB-C4A | -2.15 | 125.86      | 130.12   |
| 17  | B     | 838 | CLA  | O2A-CGA-O1A | -2.15 | 118.17      | 123.59   |
| 17  | B     | 835 | CLA  | C2A-C1A-CHA | 2.15  | 127.61      | 123.86   |
| 17  | 3     | 212 | CLA  | C1B-CHB-C4A | -2.15 | 125.87      | 130.12   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | B     | 831 | CLA  | O2A-CGA-O1A | -2.14 | 118.18      | 123.59   |
| 17  | B     | 818 | CLA  | O2D-CGD-O1D | -2.14 | 119.65      | 123.84   |
| 17  | 1     | 606 | CLA  | C2A-C1A-CHA | 2.14  | 127.61      | 123.86   |
| 20  | L     | 201 | BCR  | C10-C11-C12 | -2.14 | 116.53      | 123.22   |
| 20  | B     | 845 | BCR  | C11-C10-C9  | -2.14 | 124.25      | 127.31   |
| 17  | A     | 827 | CLA  | C1B-CHB-C4A | -2.14 | 125.87      | 130.12   |
| 17  | B     | 827 | CLA  | C2A-C1A-CHA | 2.14  | 127.60      | 123.86   |
| 17  | 2     | 613 | CLA  | C1B-CHB-C4A | -2.14 | 125.88      | 130.12   |
| 25  | 4     | 613 | ZEX  | C35-C15-C14 | -2.14 | 119.09      | 123.47   |
| 20  | B     | 845 | BCR  | C33-C5-C6   | -2.14 | 122.13      | 124.53   |
| 17  | 3     | 210 | CLA  | CMA-C3A-C2A | -2.14 | 111.11      | 116.10   |
| 17  | 5     | 610 | CLA  | O2A-CGA-O1A | -2.14 | 117.97      | 123.30   |
| 25  | 4     | 612 | ZEX  | C21-C26-C27 | -2.14 | 109.73      | 115.78   |
| 17  | 1     | 612 | CLA  | O2A-CGA-O1A | -2.14 | 117.97      | 123.30   |
| 17  | A     | 817 | CLA  | C2A-C1A-CHA | 2.14  | 127.59      | 123.86   |
| 17  | A     | 818 | CLA  | C2A-C1A-CHA | 2.14  | 127.59      | 123.86   |
| 17  | B     | 815 | CLA  | C2A-C1A-CHA | 2.14  | 127.59      | 123.86   |
| 17  | B     | 804 | CLA  | C6-C7-C8    | -2.14 | 109.02      | 115.92   |
| 17  | A     | 832 | CLA  | C2D-C1D-ND  | -2.13 | 108.53      | 110.10   |
| 17  | B     | 827 | CLA  | CAA-C2A-C3A | -2.13 | 106.93      | 112.78   |
| 17  | A     | 827 | CLA  | CHA-C1A-NA  | -2.13 | 121.51      | 126.40   |
| 17  | A     | 819 | CLA  | C7-C6-C5    | -2.13 | 107.57      | 113.36   |
| 16  | A     | 801 | CL0  | CMD-C2D-C3D | -2.13 | 122.71      | 127.61   |
| 17  | B     | 812 | CLA  | C1D-ND-C4D  | 2.13  | 107.85      | 106.33   |
| 17  | B     | 842 | CLA  | CAA-C2A-C3A | -2.13 | 106.94      | 112.78   |
| 25  | 2     | 616 | ZEX  | C3-C4-C5    | 2.13  | 116.10      | 111.85   |
| 17  | 3     | 207 | CLA  | O2A-CGA-O1A | -2.13 | 117.99      | 123.30   |
| 17  | 3     | 203 | CLA  | CHD-C1D-ND  | -2.13 | 122.50      | 124.45   |
| 17  | 4     | 610 | CLA  | C3A-C2A-C1A | 2.13  | 104.53      | 101.34   |
| 23  | B     | 851 | DGD  | C7A-C6A-C5A | -2.13 | 103.61      | 114.42   |
| 25  | 4     | 614 | ZEX  | C15-C35-C34 | -2.13 | 119.11      | 123.47   |
| 25  | 4     | 617 | ZEX  | C4-C5-C6    | -2.13 | 116.10      | 120.85   |
| 25  | 1     | 616 | ZEX  | C31-C32-C33 | -2.13 | 120.43      | 126.42   |
| 17  | 3     | 207 | CLA  | CHD-C1D-ND  | -2.13 | 122.50      | 124.45   |
| 25  | 4     | 612 | ZEX  | C38-C24-C23 | -2.13 | 108.91      | 112.20   |
| 17  | B     | 816 | CLA  | CHA-C1A-NA  | -2.13 | 121.52      | 126.40   |
| 17  | B     | 804 | CLA  | C3B-C4B-NB  | -2.13 | 106.46      | 109.21   |
| 17  | 5     | 613 | CLA  | C1B-CHB-C4A | -2.13 | 125.90      | 130.12   |
| 17  | A     | 807 | CLA  | C2A-C1A-CHA | 2.13  | 127.58      | 123.86   |
| 17  | B     | 822 | CLA  | O2D-CGD-O1D | -2.13 | 119.68      | 123.84   |
| 25  | 3     | 215 | ZEX  | C3-C4-C5    | 2.13  | 116.09      | 111.85   |
| 17  | B     | 821 | CLA  | CMA-C3A-C2A | -2.13 | 105.25      | 113.83   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | B     | 808 | CLA  | C16-C17-C18 | -2.13 | 105.96      | 115.98   |
| 20  | I     | 101 | BCR  | C1-C6-C5    | -2.12 | 119.62      | 122.61   |
| 25  | 4     | 615 | ZEX  | C31-C32-C33 | -2.12 | 120.45      | 126.42   |
| 17  | 4     | 610 | CLA  | C2A-C1A-CHA | 2.12  | 127.57      | 123.86   |
| 17  | B     | 834 | CLA  | CHA-C1A-NA  | -2.12 | 121.54      | 126.40   |
| 20  | J     | 105 | BCR  | C11-C10-C9  | -2.12 | 124.28      | 127.31   |
| 16  | A     | 801 | CL0  | CMC-C2C-C1C | -2.12 | 121.81      | 125.04   |
| 17  | B     | 841 | CLA  | O2A-CGA-O1A | -2.12 | 118.24      | 123.59   |
| 16  | A     | 801 | CL0  | C11-C12-C13 | -2.12 | 109.06      | 115.92   |
| 17  | B     | 823 | CLA  | O2A-CGA-O1A | -2.12 | 118.01      | 123.30   |
| 17  | B     | 836 | CLA  | CHD-C1D-ND  | -2.12 | 122.51      | 124.45   |
| 20  | B     | 845 | BCR  | C40-C30-C25 | 2.12  | 113.74      | 110.30   |
| 17  | B     | 843 | CLA  | CHA-C1A-NA  | -2.12 | 121.54      | 126.40   |
| 20  | B     | 850 | BCR  | C31-C1-C6   | 2.12  | 113.74      | 110.30   |
| 20  | B     | 849 | BCR  | C30-C25-C26 | -2.12 | 119.63      | 122.61   |
| 16  | A     | 801 | CL0  | C4C-C3C-C2C | -2.12 | 103.81      | 106.90   |
| 17  | B     | 804 | CLA  | C2A-C1A-CHA | 2.12  | 127.56      | 123.86   |
| 17  | A     | 804 | CLA  | CHA-C1A-NA  | -2.12 | 121.55      | 126.40   |
| 25  | 3     | 215 | ZEX  | C38-C24-C25 | -2.12 | 107.50      | 110.87   |
| 17  | B     | 830 | CLA  | C6-C7-C8    | -2.12 | 109.08      | 115.92   |
| 17  | B     | 814 | CLA  | CAA-C2A-C3A | -2.11 | 106.99      | 112.78   |
| 20  | B     | 847 | BCR  | C3-C4-C5    | -2.11 | 110.30      | 114.08   |
| 17  | A     | 808 | CLA  | O2A-CGA-O1A | -2.11 | 118.26      | 123.59   |
| 17  | 5     | 609 | CLA  | CAC-C3C-C2C | 2.11  | 131.14      | 127.53   |
| 17  | A     | 839 | CLA  | O2D-CGD-CBD | 2.11  | 115.02      | 111.27   |
| 17  | A     | 848 | CLA  | C1C-C2C-C3C | 2.11  | 109.18      | 106.96   |
| 20  | J     | 105 | BCR  | C37-C22-C21 | -2.11 | 119.97      | 122.92   |
| 17  | 3     | 211 | CLA  | C2A-C1A-CHA | 2.11  | 127.55      | 123.86   |
| 17  | 5     | 601 | CLA  | C2A-C1A-CHA | 2.11  | 127.55      | 123.86   |
| 20  | B     | 848 | BCR  | C11-C10-C9  | -2.11 | 124.30      | 127.31   |
| 17  | A     | 809 | CLA  | O2A-CGA-O1A | -2.11 | 118.27      | 123.59   |
| 17  | A     | 831 | CLA  | C2A-C1A-CHA | 2.11  | 127.54      | 123.86   |
| 17  | 5     | 603 | CLA  | C4-C3-C5    | 2.11  | 118.82      | 115.27   |
| 20  | I     | 101 | BCR  | C2-C1-C6    | 2.11  | 113.72      | 110.48   |
| 17  | 4     | 601 | CLA  | O2A-CGA-O1A | -2.11 | 118.27      | 123.59   |
| 17  | A     | 839 | CLA  | O2A-CGA-O1A | -2.11 | 118.28      | 123.59   |
| 17  | A     | 807 | CLA  | O2D-CGD-CBD | 2.11  | 115.01      | 111.27   |
| 17  | B     | 832 | CLA  | C3C-C4C-NC  | -2.11 | 108.21      | 110.57   |
| 17  | B     | 836 | CLA  | O2A-CGA-O1A | -2.10 | 118.28      | 123.59   |
| 17  | 4     | 601 | CLA  | C3A-C2A-C1A | 2.10  | 104.49      | 101.34   |
| 17  | K     | 102 | CLA  | O2A-CGA-O1A | -2.10 | 118.06      | 123.30   |
| 17  | 1     | 609 | CLA  | CMA-C3A-C2A | -2.10 | 111.19      | 116.10   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | A     | 805 | CLA  | CAC-C3C-C4C | 2.10  | 127.54      | 124.81   |
| 20  | F     | 304 | BCR  | C2-C1-C6    | 2.10  | 113.72      | 110.48   |
| 17  | A     | 822 | CLA  | O1D-CGD-CBD | 2.10  | 128.78      | 124.48   |
| 17  | A     | 814 | CLA  | C3C-C4C-NC  | -2.10 | 108.22      | 110.57   |
| 17  | B     | 836 | CLA  | C2D-C1D-ND  | -2.10 | 108.56      | 110.10   |
| 17  | B     | 804 | CLA  | CMA-C3A-C2A | -2.10 | 105.36      | 113.83   |
| 17  | 4     | 603 | CLA  | C1B-CHB-C4A | -2.10 | 125.96      | 130.12   |
| 17  | B     | 843 | CLA  | C2D-C1D-ND  | -2.10 | 108.56      | 110.10   |
| 20  | L     | 206 | BCR  | C33-C5-C6   | -2.10 | 122.17      | 124.53   |
| 17  | 1     | 604 | CLA  | C2A-C1A-CHA | 2.10  | 127.52      | 123.86   |
| 20  | L     | 201 | BCR  | C11-C10-C9  | -2.10 | 124.32      | 127.31   |
| 20  | B     | 847 | BCR  | C16-C15-C14 | -2.10 | 119.18      | 123.47   |
| 17  | A     | 835 | CLA  | O2A-CGA-O1A | -2.10 | 118.30      | 123.59   |
| 20  | J     | 105 | BCR  | C20-C21-C22 | -2.10 | 124.32      | 127.31   |
| 17  | B     | 808 | CLA  | CHA-C1A-NA  | -2.09 | 121.60      | 126.40   |
| 17  | J     | 101 | CLA  | C2A-C1A-CHA | 2.09  | 127.52      | 123.86   |
| 17  | B     | 802 | CLA  | OBD-CAD-C3D | 2.09  | 133.56      | 128.52   |
| 17  | 2     | 601 | CLA  | O2A-CGA-O1A | -2.09 | 118.09      | 123.30   |
| 25  | 3     | 216 | ZEX  | C4-C5-C6    | -2.09 | 116.19      | 120.85   |
| 17  | O     | 201 | CLA  | C1-C2-C3    | -2.09 | 122.43      | 126.04   |
| 17  | 5     | 603 | CLA  | CMC-C2C-C1C | -2.09 | 121.86      | 125.04   |
| 17  | B     | 811 | CLA  | C3C-C4C-NC  | -2.09 | 108.23      | 110.57   |
| 20  | B     | 850 | BCR  | C7-C8-C9    | -2.09 | 123.08      | 126.23   |
| 17  | O     | 205 | CLA  | O2A-CGA-O1A | -2.09 | 118.09      | 123.30   |
| 17  | B     | 842 | CLA  | C2A-C1A-CHA | 2.09  | 127.51      | 123.86   |
| 17  | K     | 103 | CLA  | C2A-C1A-CHA | 2.09  | 127.51      | 123.86   |
| 17  | B     | 827 | CLA  | CHA-C1A-NA  | -2.09 | 121.61      | 126.40   |
| 17  | 2     | 613 | CLA  | O2A-CGA-O1A | -2.09 | 118.09      | 123.30   |
| 17  | 5     | 603 | CLA  | CHA-C1A-NA  | -2.09 | 121.62      | 126.40   |
| 17  | 2     | 605 | CLA  | CAA-C2A-C3A | -2.09 | 107.06      | 112.78   |
| 17  | B     | 825 | CLA  | CAA-C2A-C3A | -2.09 | 107.06      | 112.78   |
| 17  | A     | 809 | CLA  | C7-C6-C5    | -2.09 | 107.69      | 113.36   |
| 18  | A     | 840 | PQN  | C2M-C2-C3   | -2.09 | 121.00      | 124.40   |
| 17  | A     | 827 | CLA  | CHB-C4A-NA  | 2.09  | 127.40      | 124.51   |
| 17  | A     | 817 | CLA  | CHC-C1C-NC  | 2.08  | 127.37      | 124.20   |
| 25  | 5     | 615 | ZEX  | C35-C15-C14 | -2.08 | 119.20      | 123.47   |
| 17  | B     | 825 | CLA  | C2A-C1A-CHA | 2.08  | 127.50      | 123.86   |
| 17  | B     | 803 | CLA  | C3C-C4C-NC  | -2.08 | 108.23      | 110.57   |
| 17  | B     | 807 | CLA  | C2A-C1A-CHA | 2.08  | 127.50      | 123.86   |
| 17  | 4     | 601 | CLA  | C2A-C1A-CHA | 2.08  | 127.50      | 123.86   |
| 25  | 1     | 616 | ZEX  | C11-C12-C13 | -2.08 | 120.57      | 126.42   |
| 17  | 4     | 604 | CLA  | C2A-C1A-CHA | 2.08  | 127.50      | 123.86   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | A     | 802 | CLA  | CAA-C2A-C3A | -2.08 | 107.08      | 112.78   |
| 17  | L     | 203 | CLA  | O2D-CGD-O1D | -2.08 | 119.77      | 123.84   |
| 17  | B     | 833 | CLA  | CHA-C1A-NA  | -2.08 | 121.63      | 126.40   |
| 20  | A     | 846 | BCR  | C15-C14-C13 | -2.08 | 124.34      | 127.31   |
| 17  | A     | 820 | CLA  | CMD-C2D-C3D | 2.08  | 132.40      | 127.61   |
| 17  | 4     | 607 | CLA  | C2A-C1A-CHA | 2.08  | 127.50      | 123.86   |
| 17  | 1     | 603 | CLA  | C2D-C1D-ND  | -2.08 | 108.57      | 110.10   |
| 17  | A     | 834 | CLA  | CAA-C2A-C3A | -2.08 | 107.09      | 112.78   |
| 17  | A     | 803 | CLA  | C3C-C4C-NC  | -2.08 | 108.24      | 110.57   |
| 17  | B     | 808 | CLA  | C1-C2-C3    | -2.08 | 122.45      | 126.04   |
| 17  | B     | 841 | CLA  | C4-C3-C5    | 2.08  | 118.77      | 115.27   |
| 20  | K     | 101 | BCR  | C38-C26-C27 | -2.08 | 109.63      | 113.62   |
| 25  | 4     | 613 | ZEX  | C17-C1-C6   | -2.08 | 106.93      | 110.30   |
| 17  | 5     | 605 | CLA  | O2D-CGD-CBD | 2.07  | 114.95      | 111.27   |
| 17  | B     | 834 | CLA  | C2D-C1D-ND  | -2.07 | 108.58      | 110.10   |
| 20  | F     | 304 | BCR  | C20-C21-C22 | -2.07 | 124.35      | 127.31   |
| 25  | 1     | 615 | ZEX  | C21-C26-C27 | -2.07 | 109.91      | 115.78   |
| 17  | B     | 832 | CLA  | C3A-C2A-C1A | 2.07  | 104.44      | 101.34   |
| 20  | F     | 304 | BCR  | C35-C13-C14 | -2.07 | 120.02      | 122.92   |
| 17  | B     | 808 | CLA  | C1D-ND-C4D  | 2.07  | 107.81      | 106.33   |
| 17  | A     | 812 | CLA  | CHA-C1A-NA  | -2.07 | 121.65      | 126.40   |
| 17  | 4     | 609 | CLA  | C2A-C1A-CHA | 2.07  | 127.47      | 123.85   |
| 17  | B     | 816 | CLA  | C1-C2-C3    | -2.07 | 122.46      | 126.04   |
| 17  | B     | 830 | CLA  | CHA-C1A-NA  | -2.07 | 121.65      | 126.40   |
| 19  | A     | 841 | LHG  | C18-C17-C16 | -2.07 | 103.91      | 114.42   |
| 17  | A     | 829 | CLA  | C2D-C1D-ND  | -2.07 | 108.58      | 110.10   |
| 17  | B     | 838 | CLA  | CAA-C2A-C3A | -2.07 | 107.11      | 112.78   |
| 23  | B     | 851 | DGD  | C8B-C7B-C6B | -2.07 | 103.92      | 114.42   |
| 17  | A     | 808 | CLA  | CAA-CBA-CGA | -2.07 | 107.20      | 113.25   |
| 25  | 3     | 217 | ZEX  | C21-C26-C27 | -2.07 | 109.92      | 115.78   |
| 20  | I     | 101 | BCR  | C38-C26-C27 | -2.07 | 109.64      | 113.62   |
| 17  | B     | 808 | CLA  | O2A-C1-C2   | -2.07 | 103.20      | 108.64   |
| 17  | A     | 825 | CLA  | O2A-CGA-O1A | -2.07 | 118.38      | 123.59   |
| 17  | 5     | 603 | CLA  | CHC-C1C-NC  | 2.07  | 127.34      | 124.20   |
| 25  | 4     | 614 | ZEX  | C37-C21-C26 | -2.06 | 106.95      | 110.30   |
| 25  | 5     | 616 | ZEX  | C31-C32-C33 | -2.06 | 120.62      | 126.42   |
| 17  | B     | 821 | CLA  | C2A-C1A-CHA | 2.06  | 127.47      | 123.86   |
| 17  | 3     | 204 | CLA  | O2A-CGA-O1A | -2.06 | 118.16      | 123.30   |
| 17  | B     | 832 | CLA  | CHA-C4D-ND  | 2.06  | 136.82      | 132.50   |
| 25  | 4     | 615 | ZEX  | C27-C28-C29 | -2.06 | 123.12      | 126.23   |
| 25  | 5     | 617 | ZEX  | C7-C6-C5    | -2.06 | 116.47      | 121.46   |
| 17  | A     | 832 | CLA  | C3A-C2A-C1A | 2.06  | 104.43      | 101.34   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | 4     | 606 | CLA  | CAC-C3C-C2C | -2.06 | 124.00      | 127.53   |
| 17  | B     | 816 | CLA  | CBC-CAC-C3C | 2.06  | 118.11      | 112.43   |
| 25  | 2     | 616 | ZEX  | C32-C33-C34 | -2.06 | 115.78      | 118.94   |
| 17  | B     | 819 | CLA  | O2A-CGA-O1A | -2.06 | 118.39      | 123.59   |
| 17  | B     | 801 | CLA  | CMA-C3A-C2A | -2.06 | 105.52      | 113.83   |
| 17  | A     | 814 | CLA  | CHA-C1A-NA  | -2.06 | 121.68      | 126.40   |
| 17  | 1     | 610 | CLA  | CHA-C1A-NA  | -2.06 | 121.68      | 126.40   |
| 25  | 2     | 614 | ZEX  | C31-C32-C33 | -2.06 | 120.63      | 126.42   |
| 20  | K     | 104 | BCR  | C35-C13-C14 | -2.06 | 120.04      | 122.92   |
| 17  | 4     | 603 | CLA  | CHA-C1A-NA  | -2.06 | 121.68      | 126.40   |
| 17  | B     | 831 | CLA  | O2D-CGD-O1D | -2.06 | 119.81      | 123.84   |
| 17  | 4     | 611 | CLA  | CHA-C4D-ND  | 2.06  | 136.80      | 132.50   |
| 17  | O     | 205 | CLA  | C1B-CHB-C4A | -2.06 | 126.04      | 130.12   |
| 17  | 5     | 613 | CLA  | CAA-C2A-C3A | -2.06 | 107.14      | 112.78   |
| 17  | A     | 808 | CLA  | C2A-C1A-CHA | 2.06  | 127.46      | 123.86   |
| 17  | A     | 828 | CLA  | O2D-CGD-CBD | 2.06  | 114.92      | 111.27   |
| 17  | A     | 820 | CLA  | C1B-CHB-C4A | -2.06 | 126.04      | 130.12   |
| 17  | 3     | 205 | CLA  | CGD-CBD-CAD | -2.06 | 104.08      | 110.73   |
| 17  | A     | 817 | CLA  | C1D-ND-C4D  | 2.06  | 107.80      | 106.33   |
| 17  | A     | 837 | CLA  | CAA-C2A-C3A | -2.06 | 107.15      | 112.78   |
| 17  | 1     | 601 | CLA  | O2D-CGD-CBD | 2.05  | 114.92      | 111.27   |
| 17  | 1     | 610 | CLA  | O2A-CGA-O1A | -2.05 | 118.18      | 123.30   |
| 17  | A     | 848 | CLA  | C1-C2-C3    | -2.05 | 122.49      | 126.04   |
| 17  | A     | 829 | CLA  | CHA-C1A-NA  | -2.05 | 121.70      | 126.40   |
| 18  | B     | 844 | PQN  | O4-C4-C5    | -2.05 | 118.24      | 121.56   |
| 17  | 5     | 612 | CLA  | C1B-CHB-C4A | -2.05 | 126.05      | 130.12   |
| 17  | 5     | 602 | CLA  | O2A-CGA-O1A | -2.05 | 118.19      | 123.30   |
| 17  | 2     | 607 | CLA  | O2A-CGA-O1A | -2.05 | 118.19      | 123.30   |
| 17  | A     | 829 | CLA  | CHA-C4D-ND  | 2.05  | 136.78      | 132.50   |
| 17  | B     | 838 | CLA  | C1-C2-C3    | -2.05 | 122.50      | 126.04   |
| 17  | 1     | 608 | CLA  | CHD-C1D-ND  | -2.05 | 122.57      | 124.45   |
| 25  | 1     | 616 | ZEX  | C15-C35-C34 | -2.05 | 119.28      | 123.47   |
| 20  | K     | 101 | BCR  | C33-C5-C6   | -2.05 | 122.23      | 124.53   |
| 16  | A     | 801 | CL0  | CHD-C4C-NC  | -2.05 | 120.98      | 124.20   |
| 17  | 5     | 606 | CLA  | CAA-C2A-C3A | -2.05 | 107.17      | 112.78   |
| 25  | 3     | 218 | ZEX  | C17-C1-C6   | -2.05 | 106.98      | 110.30   |
| 17  | O     | 203 | CLA  | CHA-C1A-NA  | -2.05 | 121.71      | 126.40   |
| 20  | L     | 205 | BCR  | C37-C22-C21 | -2.05 | 120.06      | 122.92   |
| 17  | B     | 806 | CLA  | C16-C15-C13 | -2.05 | 109.31      | 115.92   |
| 17  | K     | 102 | CLA  | CHA-C1A-NA  | -2.05 | 121.71      | 126.40   |
| 17  | 4     | 611 | CLA  | O2A-CGA-O1A | -2.05 | 118.20      | 123.30   |
| 17  | A     | 830 | CLA  | CHA-C1A-NA  | -2.05 | 121.71      | 126.40   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | B     | 843 | CLA  | O2A-CGA-O1A | -2.04 | 118.43      | 123.59   |
| 17  | A     | 817 | CLA  | CAA-C2A-C3A | -2.04 | 107.18      | 112.78   |
| 17  | 5     | 613 | CLA  | O2A-CGA-O1A | -2.04 | 118.43      | 123.59   |
| 17  | J     | 101 | CLA  | C3A-C2A-C1A | 2.04  | 104.40      | 101.34   |
| 17  | 3     | 206 | CLA  | O2A-CGA-O1A | -2.04 | 118.21      | 123.30   |
| 17  | 5     | 609 | CLA  | C2A-C1A-CHA | 2.04  | 127.42      | 123.85   |
| 17  | B     | 815 | CLA  | CHA-C1A-NA  | -2.04 | 121.72      | 126.40   |
| 17  | A     | 807 | CLA  | C11-C12-C13 | -2.04 | 109.32      | 115.92   |
| 20  | B     | 845 | BCR  | C38-C26-C27 | -2.04 | 109.69      | 113.62   |
| 17  | A     | 828 | CLA  | CBC-CAC-C3C | -2.04 | 106.81      | 112.43   |
| 17  | B     | 821 | CLA  | O2D-CGD-CBD | 2.04  | 114.89      | 111.27   |
| 17  | A     | 823 | CLA  | C1-C2-C3    | -2.04 | 122.52      | 126.04   |
| 17  | B     | 802 | CLA  | CHD-C1D-C2D | 2.04  | 129.76      | 125.48   |
| 25  | 3     | 216 | ZEX  | C3-C4-C5    | 2.04  | 115.92      | 111.85   |
| 17  | 3     | 204 | CLA  | C2A-C1A-CHA | 2.04  | 127.42      | 123.86   |
| 17  | 2     | 608 | CLA  | CHA-C1A-NA  | -2.03 | 121.74      | 126.40   |
| 25  | 4     | 616 | ZEX  | C15-C35-C34 | -2.03 | 119.31      | 123.47   |
| 20  | B     | 805 | BCR  | C31-C1-C6   | 2.03  | 113.60      | 110.30   |
| 17  | O     | 201 | CLA  | O2A-CGA-O1A | -2.03 | 118.46      | 123.59   |
| 17  | 2     | 602 | CLA  | O1D-CGD-CBD | 2.03  | 128.64      | 124.48   |
| 17  | A     | 808 | CLA  | CAA-C2A-C3A | -2.03 | 107.22      | 112.78   |
| 17  | B     | 820 | CLA  | CHA-C1A-NA  | -2.03 | 121.75      | 126.40   |
| 17  | B     | 833 | CLA  | CAC-C3C-C4C | 2.03  | 127.44      | 124.81   |
| 17  | A     | 807 | CLA  | CHA-C1A-NA  | -2.03 | 121.75      | 126.40   |
| 25  | 4     | 613 | ZEX  | C15-C35-C34 | -2.03 | 119.32      | 123.47   |
| 17  | B     | 812 | CLA  | CHA-C1A-NA  | -2.03 | 121.76      | 126.40   |
| 17  | 3     | 210 | CLA  | CBC-CAC-C3C | 2.03  | 118.02      | 112.43   |
| 17  | A     | 848 | CLA  | O2A-CGA-O1A | -2.03 | 118.48      | 123.59   |
| 17  | A     | 828 | CLA  | CHC-C1C-C2C | -2.03 | 121.12      | 126.72   |
| 17  | B     | 833 | CLA  | C3C-C4C-NC  | -2.03 | 108.30      | 110.57   |
| 20  | F     | 304 | BCR  | C7-C8-C9    | -2.03 | 123.17      | 126.23   |
| 17  | B     | 802 | CLA  | CMC-C2C-C1C | -2.03 | 121.95      | 125.04   |
| 17  | 1     | 602 | CLA  | C2A-C1A-CHA | 2.03  | 127.40      | 123.86   |
| 17  | B     | 813 | CLA  | O2A-CGA-O1A | -2.02 | 118.48      | 123.59   |
| 17  | O     | 205 | CLA  | CHA-C1A-NA  | -2.02 | 121.76      | 126.40   |
| 20  | A     | 844 | BCR  | C38-C26-C27 | -2.02 | 109.73      | 113.62   |
| 20  | A     | 846 | BCR  | C10-C11-C12 | -2.02 | 116.91      | 123.22   |
| 20  | A     | 843 | BCR  | C24-C23-C22 | -2.02 | 123.18      | 126.23   |
| 25  | 5     | 616 | ZEX  | C4-C5-C6    | -2.02 | 116.34      | 120.85   |
| 17  | B     | 825 | CLA  | CHA-C1A-NA  | -2.02 | 121.77      | 126.40   |
| 17  | A     | 836 | CLA  | C6-C7-C8    | -2.02 | 109.39      | 115.92   |
| 17  | 5     | 608 | CLA  | CAA-C2A-C3A | -2.02 | 107.25      | 112.78   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | 3     | 209 | CLA  | CHD-C1D-ND  | -2.02 | 122.60      | 124.45   |
| 17  | B     | 802 | CLA  | CMC-C2C-C3C | 2.02  | 131.60      | 126.12   |
| 25  | 5     | 616 | ZEX  | C3-C4-C5    | 2.02  | 115.88      | 111.85   |
| 16  | A     | 801 | CL0  | C4-C3-C5    | 2.02  | 118.67      | 115.27   |
| 17  | A     | 805 | CLA  | CHA-C4D-ND  | 2.02  | 136.72      | 132.50   |
| 17  | A     | 809 | CLA  | C1-C2-C3    | -2.02 | 122.55      | 126.04   |
| 17  | 1     | 611 | CLA  | CHD-C4C-C3C | 2.02  | 127.81      | 124.84   |
| 17  | B     | 813 | CLA  | C2A-C1A-CHA | 2.02  | 127.39      | 123.86   |
| 17  | A     | 825 | CLA  | CHA-C1A-NA  | -2.02 | 121.78      | 126.40   |
| 17  | 4     | 604 | CLA  | CHA-C1A-NA  | -2.02 | 121.78      | 126.40   |
| 17  | A     | 812 | CLA  | C2A-C1A-CHA | 2.02  | 127.38      | 123.86   |
| 17  | 1     | 610 | CLA  | CAA-C2A-C3A | -2.02 | 107.26      | 112.78   |
| 17  | 4     | 607 | CLA  | O2A-CGA-O1A | -2.02 | 118.28      | 123.30   |
| 17  | 5     | 609 | CLA  | CHD-C1D-C2D | 2.01  | 129.71      | 125.48   |
| 17  | A     | 823 | CLA  | CHA-C1A-NA  | -2.01 | 121.78      | 126.40   |
| 25  | 1     | 617 | ZEX  | C23-C24-C25 | 2.01  | 112.20      | 109.33   |
| 17  | B     | 813 | CLA  | CHA-C1A-NA  | -2.01 | 121.79      | 126.40   |
| 25  | 4     | 616 | ZEX  | C38-C24-C23 | -2.01 | 109.09      | 112.20   |
| 17  | B     | 811 | CLA  | CHC-C1C-NC  | 2.01  | 127.26      | 124.20   |
| 17  | O     | 204 | CLA  | CHA-C1A-NA  | -2.01 | 121.79      | 126.40   |
| 17  | B     | 826 | CLA  | CHA-C1A-NA  | -2.01 | 121.79      | 126.40   |
| 17  | F     | 303 | CLA  | CHD-C1D-ND  | -2.01 | 122.61      | 124.45   |
| 17  | A     | 818 | CLA  | O1A-CGA-CBA | 2.01  | 129.54      | 123.08   |
| 17  | J     | 101 | CLA  | C1-C2-C3    | -2.01 | 122.57      | 126.04   |
| 17  | A     | 837 | CLA  | C1-C2-C3    | -2.01 | 122.57      | 126.04   |
| 25  | 4     | 617 | ZEX  | C11-C12-C13 | -2.01 | 120.77      | 126.42   |
| 17  | A     | 824 | CLA  | O2A-CGA-O1A | -2.01 | 118.52      | 123.59   |
| 17  | 1     | 605 | CLA  | C2A-C1A-CHA | 2.01  | 127.37      | 123.86   |
| 17  | 2     | 608 | CLA  | C2A-C1A-CHA | 2.01  | 127.37      | 123.86   |
| 17  | B     | 829 | CLA  | CAA-C2A-C3A | -2.01 | 107.28      | 112.78   |
| 17  | B     | 813 | CLA  | CGD-CBD-CAD | -2.01 | 104.23      | 110.73   |
| 17  | 4     | 604 | CLA  | O2A-CGA-O1A | -2.01 | 118.30      | 123.30   |
| 20  | B     | 848 | BCR  | C33-C5-C6   | -2.01 | 122.27      | 124.53   |
| 17  | B     | 808 | CLA  | C2D-C1D-ND  | -2.01 | 108.62      | 110.10   |
| 17  | 5     | 604 | CLA  | O1D-CGD-CBD | 2.01  | 128.59      | 124.48   |
| 17  | J     | 102 | CLA  | C2D-C1D-ND  | -2.01 | 108.63      | 110.10   |
| 17  | A     | 826 | CLA  | CAC-C3C-C4C | 2.01  | 127.41      | 124.81   |
| 25  | 5     | 615 | ZEX  | C17-C1-C6   | -2.00 | 107.05      | 110.30   |
| 17  | 5     | 607 | CLA  | CHA-C1A-NA  | -2.00 | 121.81      | 126.40   |
| 17  | B     | 824 | CLA  | C2A-C1A-CHA | 2.00  | 127.36      | 123.86   |
| 17  | A     | 836 | CLA  | CHC-C1C-NC  | 2.00  | 127.24      | 124.20   |
| 17  | 5     | 606 | CLA  | C2A-C1A-CHA | 2.00  | 127.36      | 123.86   |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17  | 5     | 607 | CLA  | C2A-C1A-CHA | 2.00  | 127.36      | 123.86   |
| 17  | A     | 810 | CLA  | C2A-C1A-CHA | 2.00  | 127.36      | 123.86   |
| 20  | L     | 201 | BCR  | C37-C22-C21 | -2.00 | 120.12      | 122.92   |

All (160) chirality outliers are listed below:

| Mol | Chain | Res | Type | Atom |
|-----|-------|-----|------|------|
| 16  | A     | 801 | CL0  | ND   |
| 16  | A     | 801 | CL0  | NC   |
| 16  | A     | 801 | CL0  | NA   |
| 17  | A     | 802 | CLA  | ND   |
| 17  | A     | 803 | CLA  | ND   |
| 17  | A     | 804 | CLA  | ND   |
| 17  | A     | 805 | CLA  | ND   |
| 17  | A     | 806 | CLA  | ND   |
| 17  | A     | 807 | CLA  | ND   |
| 17  | A     | 808 | CLA  | ND   |
| 17  | A     | 809 | CLA  | ND   |
| 17  | A     | 810 | CLA  | ND   |
| 17  | A     | 811 | CLA  | ND   |
| 17  | A     | 812 | CLA  | ND   |
| 17  | A     | 813 | CLA  | ND   |
| 17  | A     | 814 | CLA  | ND   |
| 17  | A     | 815 | CLA  | ND   |
| 17  | A     | 816 | CLA  | ND   |
| 17  | A     | 817 | CLA  | ND   |
| 17  | A     | 818 | CLA  | ND   |
| 17  | A     | 819 | CLA  | ND   |
| 17  | A     | 820 | CLA  | ND   |
| 17  | A     | 821 | CLA  | ND   |
| 17  | A     | 822 | CLA  | ND   |
| 17  | A     | 823 | CLA  | ND   |
| 17  | A     | 824 | CLA  | ND   |
| 17  | A     | 825 | CLA  | ND   |
| 17  | A     | 826 | CLA  | ND   |
| 17  | A     | 827 | CLA  | ND   |
| 17  | A     | 828 | CLA  | ND   |
| 17  | A     | 829 | CLA  | ND   |
| 17  | A     | 830 | CLA  | ND   |
| 17  | A     | 831 | CLA  | ND   |
| 17  | A     | 832 | CLA  | ND   |
| 17  | A     | 833 | CLA  | ND   |

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| <b>Mol</b> | <b>Chain</b> | <b>Res</b> | <b>Type</b> | <b>Atom</b> |
|------------|--------------|------------|-------------|-------------|
| 17         | A            | 834        | CLA         | ND          |
| 17         | A            | 835        | CLA         | ND          |
| 17         | A            | 836        | CLA         | ND          |
| 17         | A            | 837        | CLA         | ND          |
| 17         | A            | 838        | CLA         | ND          |
| 17         | A            | 839        | CLA         | ND          |
| 17         | A            | 848        | CLA         | ND          |
| 17         | B            | 801        | CLA         | ND          |
| 17         | B            | 802        | CLA         | ND          |
| 17         | B            | 803        | CLA         | ND          |
| 17         | B            | 804        | CLA         | ND          |
| 17         | B            | 806        | CLA         | ND          |
| 17         | B            | 807        | CLA         | ND          |
| 17         | B            | 808        | CLA         | ND          |
| 17         | B            | 809        | CLA         | ND          |
| 17         | B            | 810        | CLA         | ND          |
| 17         | B            | 811        | CLA         | ND          |
| 17         | B            | 812        | CLA         | ND          |
| 17         | B            | 813        | CLA         | ND          |
| 17         | B            | 814        | CLA         | ND          |
| 17         | B            | 815        | CLA         | ND          |
| 17         | B            | 816        | CLA         | ND          |
| 17         | B            | 817        | CLA         | ND          |
| 17         | B            | 818        | CLA         | ND          |
| 17         | B            | 819        | CLA         | ND          |
| 17         | B            | 820        | CLA         | ND          |
| 17         | B            | 821        | CLA         | ND          |
| 17         | B            | 822        | CLA         | ND          |
| 17         | B            | 823        | CLA         | ND          |
| 17         | B            | 824        | CLA         | ND          |
| 17         | B            | 825        | CLA         | ND          |
| 17         | B            | 826        | CLA         | ND          |
| 17         | B            | 827        | CLA         | ND          |
| 17         | B            | 828        | CLA         | ND          |
| 17         | B            | 829        | CLA         | ND          |
| 17         | B            | 830        | CLA         | ND          |
| 17         | B            | 831        | CLA         | ND          |
| 17         | B            | 832        | CLA         | ND          |
| 17         | B            | 833        | CLA         | ND          |
| 17         | B            | 834        | CLA         | ND          |
| 17         | B            | 835        | CLA         | ND          |
| 17         | B            | 836        | CLA         | ND          |

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| <b>Mol</b> | <b>Chain</b> | <b>Res</b> | <b>Type</b> | <b>Atom</b> |
|------------|--------------|------------|-------------|-------------|
| 17         | B            | 837        | CLA         | ND          |
| 17         | B            | 838        | CLA         | ND          |
| 17         | B            | 839        | CLA         | ND          |
| 17         | B            | 840        | CLA         | ND          |
| 17         | B            | 841        | CLA         | ND          |
| 17         | B            | 842        | CLA         | ND          |
| 17         | B            | 843        | CLA         | ND          |
| 17         | F            | 301        | CLA         | ND          |
| 17         | F            | 302        | CLA         | ND          |
| 17         | F            | 303        | CLA         | ND          |
| 17         | J            | 101        | CLA         | ND          |
| 17         | J            | 102        | CLA         | ND          |
| 17         | J            | 103        | CLA         | ND          |
| 17         | K            | 102        | CLA         | ND          |
| 17         | K            | 103        | CLA         | ND          |
| 17         | L            | 202        | CLA         | ND          |
| 17         | L            | 203        | CLA         | ND          |
| 17         | L            | 204        | CLA         | ND          |
| 17         | O            | 201        | CLA         | ND          |
| 17         | O            | 203        | CLA         | ND          |
| 17         | O            | 204        | CLA         | ND          |
| 17         | O            | 205        | CLA         | ND          |
| 17         | 1            | 601        | CLA         | ND          |
| 17         | 1            | 602        | CLA         | ND          |
| 17         | 1            | 603        | CLA         | ND          |
| 17         | 1            | 604        | CLA         | ND          |
| 17         | 1            | 605        | CLA         | ND          |
| 17         | 1            | 606        | CLA         | ND          |
| 17         | 1            | 607        | CLA         | ND          |
| 17         | 1            | 608        | CLA         | ND          |
| 17         | 1            | 609        | CLA         | ND          |
| 17         | 1            | 610        | CLA         | ND          |
| 17         | 1            | 611        | CLA         | ND          |
| 17         | 1            | 612        | CLA         | ND          |
| 17         | 2            | 601        | CLA         | ND          |
| 17         | 2            | 602        | CLA         | ND          |
| 17         | 2            | 603        | CLA         | ND          |
| 17         | 2            | 604        | CLA         | ND          |
| 17         | 2            | 605        | CLA         | ND          |
| 17         | 2            | 606        | CLA         | ND          |
| 17         | 2            | 607        | CLA         | ND          |
| 17         | 2            | 608        | CLA         | ND          |

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| <b>Mol</b> | <b>Chain</b> | <b>Res</b> | <b>Type</b> | <b>Atom</b> |
|------------|--------------|------------|-------------|-------------|
| 17         | 2            | 609        | CLA         | ND          |
| 17         | 2            | 610        | CLA         | ND          |
| 17         | 2            | 611        | CLA         | ND          |
| 17         | 2            | 612        | CLA         | ND          |
| 17         | 2            | 613        | CLA         | ND          |
| 17         | 3            | 202        | CLA         | ND          |
| 17         | 3            | 203        | CLA         | ND          |
| 17         | 3            | 204        | CLA         | ND          |
| 17         | 3            | 205        | CLA         | ND          |
| 17         | 3            | 206        | CLA         | ND          |
| 17         | 3            | 207        | CLA         | ND          |
| 17         | 3            | 208        | CLA         | ND          |
| 17         | 3            | 209        | CLA         | ND          |
| 17         | 3            | 210        | CLA         | ND          |
| 17         | 3            | 211        | CLA         | ND          |
| 17         | 3            | 212        | CLA         | ND          |
| 17         | 3            | 213        | CLA         | ND          |
| 17         | 4            | 601        | CLA         | ND          |
| 17         | 4            | 602        | CLA         | ND          |
| 17         | 4            | 603        | CLA         | ND          |
| 17         | 4            | 604        | CLA         | ND          |
| 17         | 4            | 605        | CLA         | ND          |
| 17         | 4            | 606        | CLA         | ND          |
| 17         | 4            | 607        | CLA         | ND          |
| 17         | 4            | 608        | CLA         | ND          |
| 17         | 4            | 609        | CLA         | ND          |
| 17         | 4            | 610        | CLA         | ND          |
| 17         | 4            | 611        | CLA         | ND          |
| 17         | 5            | 601        | CLA         | ND          |
| 17         | 5            | 602        | CLA         | ND          |
| 17         | 5            | 603        | CLA         | ND          |
| 17         | 5            | 604        | CLA         | ND          |
| 17         | 5            | 605        | CLA         | ND          |
| 17         | 5            | 606        | CLA         | ND          |
| 17         | 5            | 607        | CLA         | ND          |
| 17         | 5            | 608        | CLA         | ND          |
| 17         | 5            | 609        | CLA         | ND          |
| 17         | 5            | 610        | CLA         | ND          |
| 17         | 5            | 611        | CLA         | ND          |
| 17         | 5            | 612        | CLA         | ND          |
| 17         | 5            | 613        | CLA         | ND          |

All (2345) torsion outliers are listed below:

| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 17  | A     | 802 | CLA  | CHA-CBD-CGD-O1D |
| 17  | A     | 802 | CLA  | CHA-CBD-CGD-O2D |
| 17  | A     | 804 | CLA  | C1A-C2A-CAA-CBA |
| 17  | A     | 805 | CLA  | CHA-CBD-CGD-O1D |
| 17  | A     | 805 | CLA  | CAD-CBD-CGD-O1D |
| 17  | A     | 805 | CLA  | CBD-CGD-O2D-CED |
| 17  | A     | 806 | CLA  | C3A-C2A-CAA-CBA |
| 17  | A     | 806 | CLA  | CHA-CBD-CGD-O2D |
| 17  | A     | 807 | CLA  | CHA-CBD-CGD-O1D |
| 17  | A     | 807 | CLA  | CAD-CBD-CGD-O1D |
| 17  | A     | 807 | CLA  | CAD-CBD-CGD-O2D |
| 17  | A     | 807 | CLA  | CBD-CGD-O2D-CED |
| 17  | A     | 810 | CLA  | C1A-C2A-CAA-CBA |
| 17  | A     | 810 | CLA  | C3A-C2A-CAA-CBA |
| 17  | A     | 811 | CLA  | CBD-CGD-O2D-CED |
| 17  | A     | 813 | CLA  | CHA-CBD-CGD-O1D |
| 17  | A     | 813 | CLA  | CHA-CBD-CGD-O2D |
| 17  | A     | 813 | CLA  | CBD-CGD-O2D-CED |
| 17  | A     | 814 | CLA  | CHA-CBD-CGD-O1D |
| 17  | A     | 814 | CLA  | CHA-CBD-CGD-O2D |
| 17  | A     | 816 | CLA  | C3A-C2A-CAA-CBA |
| 17  | A     | 816 | CLA  | CHA-CBD-CGD-O1D |
| 17  | A     | 816 | CLA  | CHA-CBD-CGD-O2D |
| 17  | A     | 817 | CLA  | C1A-C2A-CAA-CBA |
| 17  | A     | 817 | CLA  | C3A-C2A-CAA-CBA |
| 17  | A     | 818 | CLA  | C1A-C2A-CAA-CBA |
| 17  | A     | 818 | CLA  | C3A-C2A-CAA-CBA |
| 17  | A     | 821 | CLA  | CHA-CBD-CGD-O1D |
| 17  | A     | 821 | CLA  | CHA-CBD-CGD-O2D |
| 17  | A     | 821 | CLA  | CBD-CGD-O2D-CED |
| 17  | A     | 822 | CLA  | CHA-CBD-CGD-O1D |
| 17  | A     | 822 | CLA  | CHA-CBD-CGD-O2D |
| 17  | A     | 825 | CLA  | CHA-CBD-CGD-O1D |
| 17  | A     | 825 | CLA  | CHA-CBD-CGD-O2D |
| 17  | A     | 826 | CLA  | C1A-C2A-CAA-CBA |
| 17  | A     | 826 | CLA  | CHA-CBD-CGD-O1D |
| 17  | A     | 826 | CLA  | CHA-CBD-CGD-O2D |
| 17  | A     | 826 | CLA  | CBD-CGD-O2D-CED |
| 17  | A     | 832 | CLA  | CHA-CBD-CGD-O2D |
| 17  | A     | 833 | CLA  | C4-C3-C5-C6     |
| 17  | A     | 834 | CLA  | C1A-C2A-CAA-CBA |
| 17  | A     | 834 | CLA  | CHA-CBD-CGD-O1D |
| 17  | A     | 834 | CLA  | CHA-CBD-CGD-O2D |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 17  | A     | 835 | CLA  | CHA-CBD-CGD-O1D |
| 17  | A     | 835 | CLA  | CHA-CBD-CGD-O2D |
| 17  | A     | 835 | CLA  | CAD-CBD-CGD-O1D |
| 17  | A     | 835 | CLA  | C2-C3-C5-C6     |
| 17  | A     | 836 | CLA  | CHA-CBD-CGD-O1D |
| 17  | A     | 836 | CLA  | CHA-CBD-CGD-O2D |
| 17  | A     | 836 | CLA  | C2-C3-C5-C6     |
| 17  | A     | 836 | CLA  | C4-C3-C5-C6     |
| 17  | A     | 848 | CLA  | CBD-CGD-O2D-CED |
| 17  | B     | 801 | CLA  | CHA-CBD-CGD-O1D |
| 17  | B     | 801 | CLA  | CHA-CBD-CGD-O2D |
| 17  | B     | 802 | CLA  | CBD-CGD-O2D-CED |
| 17  | B     | 803 | CLA  | CHA-CBD-CGD-O1D |
| 17  | B     | 803 | CLA  | CHA-CBD-CGD-O2D |
| 17  | B     | 804 | CLA  | CHA-CBD-CGD-O1D |
| 17  | B     | 804 | CLA  | CHA-CBD-CGD-O2D |
| 17  | B     | 804 | CLA  | CBD-CGD-O2D-CED |
| 17  | B     | 807 | CLA  | CHA-CBD-CGD-O1D |
| 17  | B     | 807 | CLA  | CHA-CBD-CGD-O2D |
| 17  | B     | 808 | CLA  | C3A-C2A-CAA-CBA |
| 17  | B     | 808 | CLA  | CHA-CBD-CGD-O1D |
| 17  | B     | 808 | CLA  | CHA-CBD-CGD-O2D |
| 17  | B     | 809 | CLA  | CBD-CGD-O2D-CED |
| 17  | B     | 810 | CLA  | CHA-CBD-CGD-O1D |
| 17  | B     | 810 | CLA  | CHA-CBD-CGD-O2D |
| 17  | B     | 812 | CLA  | C1A-C2A-CAA-CBA |
| 17  | B     | 812 | CLA  | C3A-C2A-CAA-CBA |
| 17  | B     | 814 | CLA  | CHA-CBD-CGD-O2D |
| 17  | B     | 815 | CLA  | C1A-C2A-CAA-CBA |
| 17  | B     | 815 | CLA  | C3A-C2A-CAA-CBA |
| 17  | B     | 815 | CLA  | CBD-CGD-O2D-CED |
| 17  | B     | 815 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 816 | CLA  | C1A-C2A-CAA-CBA |
| 17  | B     | 816 | CLA  | C3A-C2A-CAA-CBA |
| 17  | B     | 816 | CLA  | CBD-CGD-O2D-CED |
| 17  | B     | 817 | CLA  | CBD-CGD-O2D-CED |
| 17  | B     | 819 | CLA  | CBD-CGD-O2D-CED |
| 17  | B     | 820 | CLA  | C1A-C2A-CAA-CBA |
| 17  | B     | 820 | CLA  | C3A-C2A-CAA-CBA |
| 17  | B     | 821 | CLA  | C1A-C2A-CAA-CBA |
| 17  | B     | 821 | CLA  | C3A-C2A-CAA-CBA |
| 17  | B     | 822 | CLA  | CHA-CBD-CGD-O1D |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 17  | B     | 822 | CLA  | CHA-CBD-CGD-O2D |
| 17  | B     | 824 | CLA  | CBA-CGA-O2A-C1  |
| 17  | B     | 824 | CLA  | CBD-CGD-O2D-CED |
| 17  | B     | 825 | CLA  | CHA-CBD-CGD-O1D |
| 17  | B     | 825 | CLA  | CHA-CBD-CGD-O2D |
| 17  | B     | 825 | CLA  | CBD-CGD-O2D-CED |
| 17  | B     | 829 | CLA  | CHA-CBD-CGD-O1D |
| 17  | B     | 829 | CLA  | CHA-CBD-CGD-O2D |
| 17  | B     | 829 | CLA  | C6-C7-C8-C9     |
| 17  | B     | 830 | CLA  | CHA-CBD-CGD-O1D |
| 17  | B     | 830 | CLA  | CHA-CBD-CGD-O2D |
| 17  | B     | 830 | CLA  | C11-C10-C8-C9   |
| 17  | B     | 831 | CLA  | C1A-C2A-CAA-CBA |
| 17  | B     | 831 | CLA  | CBD-CGD-O2D-CED |
| 17  | B     | 832 | CLA  | CBD-CGD-O2D-CED |
| 17  | B     | 835 | CLA  | CHA-CBD-CGD-O1D |
| 17  | B     | 835 | CLA  | CHA-CBD-CGD-O2D |
| 17  | B     | 836 | CLA  | CBD-CGD-O2D-CED |
| 17  | B     | 836 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 837 | CLA  | C1A-C2A-CAA-CBA |
| 17  | B     | 837 | CLA  | C3A-C2A-CAA-CBA |
| 17  | B     | 837 | CLA  | CBD-CGD-O2D-CED |
| 17  | B     | 838 | CLA  | CHA-CBD-CGD-O1D |
| 17  | B     | 838 | CLA  | CHA-CBD-CGD-O2D |
| 17  | B     | 838 | CLA  | CAD-CBD-CGD-O1D |
| 17  | B     | 842 | CLA  | CHA-CBD-CGD-O1D |
| 17  | B     | 842 | CLA  | CAD-CBD-CGD-O1D |
| 17  | B     | 842 | CLA  | CAD-CBD-CGD-O2D |
| 17  | B     | 842 | CLA  | CBD-CGD-O2D-CED |
| 17  | B     | 842 | CLA  | C2-C3-C5-C6     |
| 17  | B     | 842 | CLA  | C4-C3-C5-C6     |
| 17  | F     | 301 | CLA  | CBD-CGD-O2D-CED |
| 17  | J     | 101 | CLA  | CHA-CBD-CGD-O1D |
| 17  | J     | 101 | CLA  | CHA-CBD-CGD-O2D |
| 17  | J     | 101 | CLA  | CAD-CBD-CGD-O1D |
| 17  | J     | 101 | CLA  | CAD-CBD-CGD-O2D |
| 17  | J     | 103 | CLA  | CHA-CBD-CGD-O1D |
| 17  | J     | 103 | CLA  | CHA-CBD-CGD-O2D |
| 17  | J     | 103 | CLA  | CAD-CBD-CGD-O1D |
| 17  | J     | 103 | CLA  | CBD-CGD-O2D-CED |
| 17  | K     | 103 | CLA  | CHA-CBD-CGD-O1D |
| 17  | K     | 103 | CLA  | CHA-CBD-CGD-O2D |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 17  | L     | 202 | CLA  | C1A-C2A-CAA-CBA |
| 17  | L     | 202 | CLA  | CBD-CGD-O2D-CED |
| 17  | L     | 203 | CLA  | CHA-CBD-CGD-O1D |
| 17  | L     | 204 | CLA  | CBD-CGD-O2D-CED |
| 17  | O     | 201 | CLA  | CBD-CGD-O2D-CED |
| 17  | O     | 205 | CLA  | C3A-C2A-CAA-CBA |
| 17  | 1     | 601 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 1     | 601 | CLA  | CBD-CGD-O2D-CED |
| 17  | 1     | 604 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 1     | 604 | CLA  | CBD-CGD-O2D-CED |
| 17  | 1     | 606 | CLA  | CBD-CGD-O2D-CED |
| 17  | 1     | 611 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 1     | 611 | CLA  | C3A-C2A-CAA-CBA |
| 17  | 1     | 611 | CLA  | C2C-C3C-CAC-CBC |
| 17  | 1     | 611 | CLA  | C4C-C3C-CAC-CBC |
| 17  | 2     | 604 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 2     | 605 | CLA  | CBD-CGD-O2D-CED |
| 17  | 2     | 607 | CLA  | CBD-CGD-O2D-CED |
| 17  | 2     | 607 | CLA  | O1D-CGD-O2D-CED |
| 17  | 2     | 610 | CLA  | CHA-CBD-CGD-O1D |
| 17  | 2     | 610 | CLA  | CHA-CBD-CGD-O2D |
| 17  | 2     | 610 | CLA  | CBD-CGD-O2D-CED |
| 17  | 2     | 612 | CLA  | CBD-CGD-O2D-CED |
| 17  | 2     | 613 | CLA  | CBD-CGD-O2D-CED |
| 17  | 3     | 202 | CLA  | CHA-CBD-CGD-O1D |
| 17  | 3     | 202 | CLA  | CHA-CBD-CGD-O2D |
| 17  | 3     | 202 | CLA  | CBD-CGD-O2D-CED |
| 17  | 3     | 202 | CLA  | O1D-CGD-O2D-CED |
| 17  | 3     | 203 | CLA  | CBD-CGD-O2D-CED |
| 17  | 3     | 204 | CLA  | CHA-CBD-CGD-O1D |
| 17  | 3     | 204 | CLA  | CHA-CBD-CGD-O2D |
| 17  | 3     | 204 | CLA  | CAD-CBD-CGD-O1D |
| 17  | 3     | 204 | CLA  | CAD-CBD-CGD-O2D |
| 17  | 3     | 205 | CLA  | CHA-CBD-CGD-O1D |
| 17  | 3     | 205 | CLA  | CHA-CBD-CGD-O2D |
| 17  | 3     | 207 | CLA  | CBD-CGD-O2D-CED |
| 17  | 3     | 208 | CLA  | C3A-C2A-CAA-CBA |
| 17  | 3     | 209 | CLA  | CBD-CGD-O2D-CED |
| 17  | 3     | 210 | CLA  | CHA-CBD-CGD-O1D |
| 17  | 3     | 210 | CLA  | CHA-CBD-CGD-O2D |
| 17  | 3     | 212 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 3     | 212 | CLA  | C3A-C2A-CAA-CBA |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 17  | 3     | 212 | CLA  | CBA-CGA-O2A-C1  |
| 17  | 3     | 212 | CLA  | CHA-CBD-CGD-O1D |
| 17  | 3     | 212 | CLA  | CHA-CBD-CGD-O2D |
| 17  | 3     | 212 | CLA  | CBD-CGD-O2D-CED |
| 17  | 3     | 212 | CLA  | O1D-CGD-O2D-CED |
| 17  | 4     | 602 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 4     | 602 | CLA  | CBD-CGD-O2D-CED |
| 17  | 4     | 603 | CLA  | CBD-CGD-O2D-CED |
| 17  | 4     | 604 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 4     | 604 | CLA  | C3A-C2A-CAA-CBA |
| 17  | 4     | 605 | CLA  | C3A-C2A-CAA-CBA |
| 17  | 4     | 606 | CLA  | CBD-CGD-O2D-CED |
| 17  | 4     | 606 | CLA  | O1D-CGD-O2D-CED |
| 17  | 4     | 607 | CLA  | C3A-C2A-CAA-CBA |
| 17  | 4     | 607 | CLA  | CHA-CBD-CGD-O1D |
| 17  | 4     | 607 | CLA  | CHA-CBD-CGD-O2D |
| 17  | 4     | 611 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 4     | 611 | CLA  | C3A-C2A-CAA-CBA |
| 17  | 4     | 611 | CLA  | CBD-CGD-O2D-CED |
| 17  | 4     | 611 | CLA  | O1D-CGD-O2D-CED |
| 17  | 5     | 601 | CLA  | CBD-CGD-O2D-CED |
| 17  | 5     | 602 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 5     | 603 | CLA  | C4-C3-C5-C6     |
| 17  | 5     | 604 | CLA  | CBD-CGD-O2D-CED |
| 17  | 5     | 605 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 5     | 605 | CLA  | C3A-C2A-CAA-CBA |
| 17  | 5     | 607 | CLA  | CBD-CGD-O2D-CED |
| 17  | 5     | 609 | CLA  | CBD-CGD-O2D-CED |
| 17  | 5     | 610 | CLA  | C3A-C2A-CAA-CBA |
| 17  | 5     | 610 | CLA  | CBD-CGD-O2D-CED |
| 17  | 5     | 611 | CLA  | CHA-CBD-CGD-O1D |
| 17  | 5     | 611 | CLA  | CHA-CBD-CGD-O2D |
| 17  | 5     | 611 | CLA  | CBD-CGD-O2D-CED |
| 17  | 5     | 611 | CLA  | O1D-CGD-O2D-CED |
| 19  | A     | 841 | LHG  | C3-O3-P-O6      |
| 19  | A     | 842 | LHG  | O1-C1-C2-O2     |
| 19  | A     | 842 | LHG  | O2-C2-C3-O3     |
| 20  | A     | 843 | BCR  | C6-C7-C8-C9     |
| 20  | A     | 843 | BCR  | C10-C11-C12-C13 |
| 20  | A     | 843 | BCR  | C14-C15-C16-C17 |
| 20  | A     | 843 | BCR  | C21-C22-C23-C24 |
| 20  | A     | 844 | BCR  | C6-C7-C8-C9     |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 20  | A     | 844 | BCR  | C7-C8-C9-C34    |
| 20  | A     | 844 | BCR  | C18-C19-C20-C21 |
| 20  | A     | 844 | BCR  | C20-C21-C22-C23 |
| 20  | A     | 844 | BCR  | C20-C21-C22-C37 |
| 20  | A     | 844 | BCR  | C21-C22-C23-C24 |
| 20  | A     | 845 | BCR  | C20-C21-C22-C37 |
| 20  | A     | 845 | BCR  | C37-C22-C23-C24 |
| 20  | A     | 845 | BCR  | C22-C23-C24-C25 |
| 20  | A     | 846 | BCR  | C1-C6-C7-C8     |
| 20  | A     | 846 | BCR  | C7-C8-C9-C10    |
| 20  | A     | 846 | BCR  | C7-C8-C9-C34    |
| 20  | A     | 846 | BCR  | C11-C10-C9-C8   |
| 20  | A     | 846 | BCR  | C11-C10-C9-C34  |
| 20  | A     | 846 | BCR  | C10-C11-C12-C13 |
| 20  | A     | 846 | BCR  | C18-C19-C20-C21 |
| 20  | A     | 846 | BCR  | C20-C21-C22-C23 |
| 20  | A     | 846 | BCR  | C20-C21-C22-C37 |
| 20  | A     | 846 | BCR  | C37-C22-C23-C24 |
| 20  | A     | 846 | BCR  | C22-C23-C24-C25 |
| 20  | B     | 805 | BCR  | C11-C12-C13-C35 |
| 20  | B     | 805 | BCR  | C20-C21-C22-C37 |
| 20  | B     | 805 | BCR  | C21-C22-C23-C24 |
| 20  | B     | 805 | BCR  | C23-C24-C25-C30 |
| 20  | B     | 845 | BCR  | C6-C7-C8-C9     |
| 20  | B     | 845 | BCR  | C7-C8-C9-C10    |
| 20  | B     | 845 | BCR  | C10-C11-C12-C13 |
| 20  | B     | 845 | BCR  | C22-C23-C24-C25 |
| 20  | B     | 846 | BCR  | C6-C7-C8-C9     |
| 20  | B     | 846 | BCR  | C37-C22-C23-C24 |
| 20  | B     | 847 | BCR  | C6-C7-C8-C9     |
| 20  | B     | 847 | BCR  | C11-C10-C9-C8   |
| 20  | B     | 847 | BCR  | C11-C10-C9-C34  |
| 20  | B     | 847 | BCR  | C11-C12-C13-C14 |
| 20  | B     | 847 | BCR  | C11-C12-C13-C35 |
| 20  | B     | 847 | BCR  | C37-C22-C23-C24 |
| 20  | B     | 847 | BCR  | C22-C23-C24-C25 |
| 20  | B     | 848 | BCR  | C6-C7-C8-C9     |
| 20  | B     | 848 | BCR  | C7-C8-C9-C34    |
| 20  | B     | 848 | BCR  | C37-C22-C23-C24 |
| 20  | B     | 849 | BCR  | C1-C6-C7-C8     |
| 20  | B     | 849 | BCR  | C6-C7-C8-C9     |
| 20  | B     | 849 | BCR  | C10-C11-C12-C13 |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 20  | B     | 849 | BCR  | C11-C12-C13-C14 |
| 20  | B     | 849 | BCR  | C11-C12-C13-C35 |
| 20  | B     | 849 | BCR  | C16-C17-C18-C19 |
| 20  | B     | 849 | BCR  | C16-C17-C18-C36 |
| 20  | B     | 849 | BCR  | C18-C19-C20-C21 |
| 20  | B     | 849 | BCR  | C22-C23-C24-C25 |
| 20  | B     | 849 | BCR  | C23-C24-C25-C26 |
| 20  | B     | 849 | BCR  | C23-C24-C25-C30 |
| 20  | B     | 850 | BCR  | C13-C14-C15-C16 |
| 20  | B     | 850 | BCR  | C37-C22-C23-C24 |
| 20  | F     | 304 | BCR  | C6-C7-C8-C9     |
| 20  | F     | 304 | BCR  | C11-C12-C13-C14 |
| 20  | F     | 304 | BCR  | C14-C15-C16-C17 |
| 20  | F     | 304 | BCR  | C18-C19-C20-C21 |
| 20  | F     | 304 | BCR  | C37-C22-C23-C24 |
| 20  | F     | 304 | BCR  | C22-C23-C24-C25 |
| 20  | I     | 101 | BCR  | C7-C8-C9-C34    |
| 20  | I     | 101 | BCR  | C9-C10-C11-C12  |
| 20  | I     | 101 | BCR  | C11-C12-C13-C14 |
| 20  | I     | 101 | BCR  | C11-C12-C13-C35 |
| 20  | I     | 101 | BCR  | C16-C17-C18-C36 |
| 20  | I     | 101 | BCR  | C20-C21-C22-C23 |
| 20  | I     | 101 | BCR  | C37-C22-C23-C24 |
| 20  | I     | 101 | BCR  | C22-C23-C24-C25 |
| 20  | J     | 104 | BCR  | C1-C6-C7-C8     |
| 20  | J     | 104 | BCR  | C7-C8-C9-C10    |
| 20  | J     | 104 | BCR  | C7-C8-C9-C34    |
| 20  | J     | 104 | BCR  | C20-C21-C22-C23 |
| 20  | J     | 104 | BCR  | C21-C22-C23-C24 |
| 20  | J     | 104 | BCR  | C22-C23-C24-C25 |
| 20  | J     | 104 | BCR  | C23-C24-C25-C30 |
| 20  | J     | 105 | BCR  | C1-C6-C7-C8     |
| 20  | J     | 105 | BCR  | C6-C7-C8-C9     |
| 20  | J     | 105 | BCR  | C7-C8-C9-C34    |
| 20  | J     | 105 | BCR  | C14-C15-C16-C17 |
| 20  | J     | 105 | BCR  | C16-C17-C18-C19 |
| 20  | J     | 105 | BCR  | C21-C22-C23-C24 |
| 20  | J     | 105 | BCR  | C37-C22-C23-C24 |
| 20  | J     | 105 | BCR  | C22-C23-C24-C25 |
| 20  | K     | 101 | BCR  | C1-C6-C7-C8     |
| 20  | K     | 101 | BCR  | C7-C8-C9-C10    |
| 20  | K     | 101 | BCR  | C7-C8-C9-C34    |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 20  | K     | 101 | BCR  | C22-C23-C24-C25 |
| 20  | K     | 104 | BCR  | C6-C7-C8-C9     |
| 20  | K     | 104 | BCR  | C7-C8-C9-C34    |
| 20  | K     | 104 | BCR  | C16-C17-C18-C19 |
| 20  | K     | 104 | BCR  | C16-C17-C18-C36 |
| 20  | K     | 104 | BCR  | C18-C19-C20-C21 |
| 20  | K     | 104 | BCR  | C19-C20-C21-C22 |
| 20  | K     | 104 | BCR  | C22-C23-C24-C25 |
| 20  | L     | 201 | BCR  | C6-C7-C8-C9     |
| 20  | L     | 201 | BCR  | C14-C15-C16-C17 |
| 20  | L     | 201 | BCR  | C15-C16-C17-C18 |
| 20  | L     | 201 | BCR  | C36-C18-C19-C20 |
| 20  | L     | 201 | BCR  | C22-C23-C24-C25 |
| 20  | L     | 205 | BCR  | C1-C6-C7-C8     |
| 20  | L     | 205 | BCR  | C7-C8-C9-C10    |
| 20  | L     | 205 | BCR  | C7-C8-C9-C34    |
| 20  | L     | 205 | BCR  | C21-C22-C23-C24 |
| 20  | L     | 205 | BCR  | C23-C24-C25-C26 |
| 20  | L     | 205 | BCR  | C23-C24-C25-C30 |
| 20  | L     | 206 | BCR  | C11-C12-C13-C14 |
| 20  | L     | 206 | BCR  | C20-C21-C22-C37 |
| 20  | L     | 206 | BCR  | C22-C23-C24-C25 |
| 20  | O     | 202 | BCR  | C1-C6-C7-C8     |
| 20  | O     | 202 | BCR  | C7-C8-C9-C10    |
| 20  | O     | 202 | BCR  | C20-C21-C22-C37 |
| 20  | O     | 202 | BCR  | C21-C22-C23-C24 |
| 20  | O     | 202 | BCR  | C22-C23-C24-C25 |
| 20  | O     | 202 | BCR  | C23-C24-C25-C30 |
| 23  | B     | 851 | DGD  | C2B-C1B-O2G-C2G |
| 23  | B     | 851 | DGD  | O1B-C1B-O2G-C2G |
| 24  | J     | 106 | 3XQ  | O20-C21-C22-O23 |
| 25  | 1     | 613 | ZEX  | C5-C6-C7-C8     |
| 25  | 1     | 613 | ZEX  | C25-C26-C27-C28 |
| 25  | 1     | 613 | ZEX  | C7-C8-C9-C19    |
| 25  | 1     | 613 | ZEX  | C7-C8-C9-C10    |
| 25  | 1     | 613 | ZEX  | C11-C10-C9-C8   |
| 25  | 1     | 613 | ZEX  | C11-C12-C13-C14 |
| 25  | 1     | 613 | ZEX  | C20-C13-C14-C15 |
| 25  | 1     | 613 | ZEX  | C40-C33-C34-C35 |
| 25  | 1     | 613 | ZEX  | C31-C32-C33-C40 |
| 25  | 1     | 613 | ZEX  | C39-C29-C30-C31 |
| 25  | 1     | 613 | ZEX  | C27-C28-C29-C30 |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 25  | 1     | 613 | ZEX  | C27-C28-C29-C39 |
| 25  | 1     | 614 | ZEX  | C5-C6-C7-C8     |
| 25  | 1     | 614 | ZEX  | C25-C26-C27-C28 |
| 25  | 1     | 614 | ZEX  | C11-C10-C9-C19  |
| 25  | 1     | 614 | ZEX  | C11-C12-C13-C14 |
| 25  | 1     | 614 | ZEX  | C12-C13-C14-C15 |
| 25  | 1     | 614 | ZEX  | C40-C33-C34-C35 |
| 25  | 1     | 614 | ZEX  | C31-C32-C33-C40 |
| 25  | 1     | 614 | ZEX  | C39-C29-C30-C31 |
| 25  | 1     | 614 | ZEX  | C27-C28-C29-C30 |
| 25  | 1     | 614 | ZEX  | C27-C28-C29-C39 |
| 25  | 1     | 615 | ZEX  | C21-C26-C27-C28 |
| 25  | 1     | 615 | ZEX  | C25-C26-C27-C28 |
| 25  | 1     | 615 | ZEX  | C11-C10-C9-C19  |
| 25  | 1     | 615 | ZEX  | C11-C12-C13-C20 |
| 25  | 1     | 615 | ZEX  | C20-C13-C14-C15 |
| 25  | 1     | 615 | ZEX  | C40-C33-C34-C35 |
| 25  | 1     | 615 | ZEX  | C31-C32-C33-C40 |
| 25  | 1     | 615 | ZEX  | C29-C30-C31-C32 |
| 25  | 1     | 615 | ZEX  | C39-C29-C30-C31 |
| 25  | 1     | 615 | ZEX  | C27-C28-C29-C30 |
| 25  | 1     | 616 | ZEX  | C25-C26-C27-C28 |
| 25  | 1     | 616 | ZEX  | C11-C10-C9-C19  |
| 25  | 1     | 616 | ZEX  | C11-C12-C13-C20 |
| 25  | 1     | 616 | ZEX  | C20-C13-C14-C15 |
| 25  | 1     | 616 | ZEX  | C40-C33-C34-C35 |
| 25  | 1     | 616 | ZEX  | C32-C33-C34-C35 |
| 25  | 1     | 616 | ZEX  | C31-C32-C33-C40 |
| 25  | 1     | 616 | ZEX  | C29-C30-C31-C32 |
| 25  | 1     | 616 | ZEX  | C39-C29-C30-C31 |
| 25  | 1     | 616 | ZEX  | C27-C28-C29-C30 |
| 25  | 1     | 616 | ZEX  | C27-C28-C29-C39 |
| 25  | 1     | 617 | ZEX  | C5-C6-C7-C8     |
| 25  | 1     | 617 | ZEX  | C25-C26-C27-C28 |
| 25  | 1     | 617 | ZEX  | C7-C8-C9-C10    |
| 25  | 1     | 617 | ZEX  | C11-C10-C9-C19  |
| 25  | 1     | 617 | ZEX  | C9-C10-C11-C12  |
| 25  | 1     | 617 | ZEX  | C11-C12-C13-C20 |
| 25  | 1     | 617 | ZEX  | C11-C12-C13-C14 |
| 25  | 1     | 617 | ZEX  | C20-C13-C14-C15 |
| 25  | 1     | 617 | ZEX  | C33-C34-C35-C15 |
| 25  | 1     | 617 | ZEX  | C32-C33-C34-C35 |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 25  | 1     | 617 | ZEX  | C39-C29-C30-C31 |
| 25  | 2     | 614 | ZEX  | C25-C26-C27-C28 |
| 25  | 2     | 614 | ZEX  | C11-C10-C9-C19  |
| 25  | 2     | 614 | ZEX  | C11-C12-C13-C20 |
| 25  | 2     | 614 | ZEX  | C11-C12-C13-C14 |
| 25  | 2     | 614 | ZEX  | C20-C13-C14-C15 |
| 25  | 2     | 614 | ZEX  | C33-C34-C35-C15 |
| 25  | 2     | 614 | ZEX  | C40-C33-C34-C35 |
| 25  | 2     | 614 | ZEX  | C31-C32-C33-C34 |
| 25  | 2     | 614 | ZEX  | C39-C29-C30-C31 |
| 25  | 2     | 615 | ZEX  | C5-C6-C7-C8     |
| 25  | 2     | 615 | ZEX  | C11-C10-C9-C19  |
| 25  | 2     | 615 | ZEX  | C11-C12-C13-C20 |
| 25  | 2     | 615 | ZEX  | C11-C12-C13-C14 |
| 25  | 2     | 615 | ZEX  | C20-C13-C14-C15 |
| 25  | 2     | 615 | ZEX  | C13-C14-C15-C35 |
| 25  | 2     | 615 | ZEX  | C40-C33-C34-C35 |
| 25  | 2     | 615 | ZEX  | C39-C29-C30-C31 |
| 25  | 2     | 615 | ZEX  | C27-C28-C29-C30 |
| 25  | 2     | 615 | ZEX  | C27-C28-C29-C39 |
| 25  | 2     | 616 | ZEX  | C25-C26-C27-C28 |
| 25  | 2     | 616 | ZEX  | C7-C8-C9-C19    |
| 25  | 2     | 616 | ZEX  | C11-C10-C9-C19  |
| 25  | 2     | 616 | ZEX  | C11-C12-C13-C20 |
| 25  | 2     | 616 | ZEX  | C11-C12-C13-C14 |
| 25  | 2     | 616 | ZEX  | C12-C13-C14-C15 |
| 25  | 2     | 616 | ZEX  | C40-C33-C34-C35 |
| 25  | 2     | 616 | ZEX  | C39-C29-C30-C31 |
| 25  | 2     | 617 | ZEX  | C25-C26-C27-C28 |
| 25  | 2     | 617 | ZEX  | C7-C8-C9-C19    |
| 25  | 2     | 617 | ZEX  | C7-C8-C9-C10    |
| 25  | 2     | 617 | ZEX  | C11-C10-C9-C19  |
| 25  | 2     | 617 | ZEX  | C11-C12-C13-C20 |
| 25  | 2     | 617 | ZEX  | C20-C13-C14-C15 |
| 25  | 2     | 617 | ZEX  | C33-C34-C35-C15 |
| 25  | 2     | 617 | ZEX  | C40-C33-C34-C35 |
| 25  | 2     | 617 | ZEX  | C39-C29-C30-C31 |
| 25  | 2     | 617 | ZEX  | C27-C28-C29-C30 |
| 25  | 2     | 617 | ZEX  | C27-C28-C29-C39 |
| 25  | 3     | 201 | ZEX  | C21-C26-C27-C28 |
| 25  | 3     | 201 | ZEX  | C25-C26-C27-C28 |
| 25  | 3     | 201 | ZEX  | C11-C10-C9-C8   |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 25  | 3     | 201 | ZEX  | C9-C10-C11-C12  |
| 25  | 3     | 201 | ZEX  | C11-C12-C13-C20 |
| 25  | 3     | 201 | ZEX  | C20-C13-C14-C15 |
| 25  | 3     | 201 | ZEX  | C13-C14-C15-C35 |
| 25  | 3     | 201 | ZEX  | C40-C33-C34-C35 |
| 25  | 3     | 201 | ZEX  | C39-C29-C30-C31 |
| 25  | 3     | 201 | ZEX  | C27-C28-C29-C39 |
| 25  | 3     | 214 | ZEX  | C25-C26-C27-C28 |
| 25  | 3     | 214 | ZEX  | C11-C10-C9-C19  |
| 25  | 3     | 214 | ZEX  | C11-C12-C13-C20 |
| 25  | 3     | 214 | ZEX  | C20-C13-C14-C15 |
| 25  | 3     | 214 | ZEX  | C40-C33-C34-C35 |
| 25  | 3     | 214 | ZEX  | C39-C29-C30-C31 |
| 25  | 3     | 215 | ZEX  | C5-C6-C7-C8     |
| 25  | 3     | 215 | ZEX  | C25-C26-C27-C28 |
| 25  | 3     | 215 | ZEX  | C11-C10-C9-C19  |
| 25  | 3     | 215 | ZEX  | C20-C13-C14-C15 |
| 25  | 3     | 215 | ZEX  | C40-C33-C34-C35 |
| 25  | 3     | 215 | ZEX  | C31-C32-C33-C40 |
| 25  | 3     | 215 | ZEX  | C29-C30-C31-C32 |
| 25  | 3     | 215 | ZEX  | C39-C29-C30-C31 |
| 25  | 3     | 215 | ZEX  | C27-C28-C29-C39 |
| 25  | 3     | 216 | ZEX  | C21-C26-C27-C28 |
| 25  | 3     | 216 | ZEX  | C25-C26-C27-C28 |
| 25  | 3     | 216 | ZEX  | C7-C8-C9-C19    |
| 25  | 3     | 216 | ZEX  | C7-C8-C9-C10    |
| 25  | 3     | 216 | ZEX  | C11-C10-C9-C19  |
| 25  | 3     | 216 | ZEX  | C20-C13-C14-C15 |
| 25  | 3     | 216 | ZEX  | C40-C33-C34-C35 |
| 25  | 3     | 216 | ZEX  | C39-C29-C30-C31 |
| 25  | 3     | 216 | ZEX  | C27-C28-C29-C30 |
| 25  | 3     | 216 | ZEX  | C27-C28-C29-C39 |
| 25  | 3     | 217 | ZEX  | C25-C26-C27-C28 |
| 25  | 3     | 217 | ZEX  | C7-C8-C9-C10    |
| 25  | 3     | 217 | ZEX  | C11-C10-C9-C19  |
| 25  | 3     | 217 | ZEX  | C11-C12-C13-C20 |
| 25  | 3     | 217 | ZEX  | C20-C13-C14-C15 |
| 25  | 3     | 217 | ZEX  | C13-C14-C15-C35 |
| 25  | 3     | 217 | ZEX  | C40-C33-C34-C35 |
| 25  | 3     | 217 | ZEX  | C32-C33-C34-C35 |
| 25  | 3     | 217 | ZEX  | C28-C29-C30-C31 |
| 25  | 3     | 217 | ZEX  | C27-C28-C29-C30 |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 25  | 3     | 217 | ZEX  | C27-C28-C29-C39 |
| 25  | 3     | 218 | ZEX  | C7-C8-C9-C19    |
| 25  | 3     | 218 | ZEX  | C7-C8-C9-C10    |
| 25  | 3     | 218 | ZEX  | C11-C10-C9-C8   |
| 25  | 3     | 218 | ZEX  | C11-C12-C13-C20 |
| 25  | 3     | 218 | ZEX  | C32-C33-C34-C35 |
| 25  | 3     | 218 | ZEX  | C39-C29-C30-C31 |
| 25  | 3     | 218 | ZEX  | C28-C29-C30-C31 |
| 25  | 4     | 612 | ZEX  | C5-C6-C7-C8     |
| 25  | 4     | 612 | ZEX  | C11-C10-C9-C8   |
| 25  | 4     | 612 | ZEX  | C9-C10-C11-C12  |
| 25  | 4     | 612 | ZEX  | C12-C13-C14-C15 |
| 25  | 4     | 612 | ZEX  | C20-C13-C14-C15 |
| 25  | 4     | 612 | ZEX  | C40-C33-C34-C35 |
| 25  | 4     | 612 | ZEX  | C29-C30-C31-C32 |
| 25  | 4     | 612 | ZEX  | C39-C29-C30-C31 |
| 25  | 4     | 612 | ZEX  | C28-C29-C30-C31 |
| 25  | 4     | 612 | ZEX  | C27-C28-C29-C39 |
| 25  | 4     | 613 | ZEX  | C5-C6-C7-C8     |
| 25  | 4     | 613 | ZEX  | C11-C10-C9-C19  |
| 25  | 4     | 613 | ZEX  | C20-C13-C14-C15 |
| 25  | 4     | 613 | ZEX  | C40-C33-C34-C35 |
| 25  | 4     | 613 | ZEX  | C31-C32-C33-C40 |
| 25  | 4     | 613 | ZEX  | C39-C29-C30-C31 |
| 25  | 4     | 613 | ZEX  | C28-C29-C30-C31 |
| 25  | 4     | 614 | ZEX  | C5-C6-C7-C8     |
| 25  | 4     | 614 | ZEX  | C21-C26-C27-C28 |
| 25  | 4     | 614 | ZEX  | C25-C26-C27-C28 |
| 25  | 4     | 614 | ZEX  | C7-C8-C9-C10    |
| 25  | 4     | 614 | ZEX  | C11-C10-C9-C19  |
| 25  | 4     | 614 | ZEX  | C20-C13-C14-C15 |
| 25  | 4     | 614 | ZEX  | C13-C14-C15-C35 |
| 25  | 4     | 614 | ZEX  | C40-C33-C34-C35 |
| 25  | 4     | 614 | ZEX  | C31-C32-C33-C34 |
| 25  | 4     | 614 | ZEX  | C31-C32-C33-C40 |
| 25  | 4     | 614 | ZEX  | C28-C29-C30-C31 |
| 25  | 4     | 615 | ZEX  | C25-C26-C27-C28 |
| 25  | 4     | 615 | ZEX  | C11-C10-C9-C19  |
| 25  | 4     | 615 | ZEX  | C11-C12-C13-C14 |
| 25  | 4     | 615 | ZEX  | C20-C13-C14-C15 |
| 25  | 4     | 615 | ZEX  | C33-C34-C35-C15 |
| 25  | 4     | 615 | ZEX  | C40-C33-C34-C35 |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 25  | 4     | 615 | ZEX  | C31-C32-C33-C34 |
| 25  | 4     | 615 | ZEX  | C31-C32-C33-C40 |
| 25  | 4     | 615 | ZEX  | C28-C29-C30-C31 |
| 25  | 4     | 616 | ZEX  | C25-C26-C27-C28 |
| 25  | 4     | 616 | ZEX  | C7-C8-C9-C19    |
| 25  | 4     | 616 | ZEX  | C7-C8-C9-C10    |
| 25  | 4     | 616 | ZEX  | C11-C10-C9-C19  |
| 25  | 4     | 616 | ZEX  | C11-C12-C13-C20 |
| 25  | 4     | 616 | ZEX  | C20-C13-C14-C15 |
| 25  | 4     | 616 | ZEX  | C13-C14-C15-C35 |
| 25  | 4     | 616 | ZEX  | C40-C33-C34-C35 |
| 25  | 4     | 616 | ZEX  | C39-C29-C30-C31 |
| 25  | 4     | 617 | ZEX  | C1-C6-C7-C8     |
| 25  | 4     | 617 | ZEX  | C25-C26-C27-C28 |
| 25  | 4     | 617 | ZEX  | C11-C10-C9-C19  |
| 25  | 4     | 617 | ZEX  | C11-C12-C13-C20 |
| 25  | 4     | 617 | ZEX  | C12-C13-C14-C15 |
| 25  | 4     | 617 | ZEX  | C20-C13-C14-C15 |
| 25  | 4     | 617 | ZEX  | C33-C34-C35-C15 |
| 25  | 4     | 617 | ZEX  | C40-C33-C34-C35 |
| 25  | 4     | 617 | ZEX  | C32-C33-C34-C35 |
| 25  | 4     | 617 | ZEX  | C31-C32-C33-C40 |
| 25  | 4     | 617 | ZEX  | C28-C29-C30-C31 |
| 25  | 5     | 614 | ZEX  | C5-C6-C7-C8     |
| 25  | 5     | 614 | ZEX  | C11-C10-C9-C19  |
| 25  | 5     | 614 | ZEX  | C20-C13-C14-C15 |
| 25  | 5     | 614 | ZEX  | C40-C33-C34-C35 |
| 25  | 5     | 614 | ZEX  | C29-C30-C31-C32 |
| 25  | 5     | 614 | ZEX  | C39-C29-C30-C31 |
| 25  | 5     | 614 | ZEX  | C27-C28-C29-C30 |
| 25  | 5     | 614 | ZEX  | C27-C28-C29-C39 |
| 25  | 5     | 615 | ZEX  | C5-C6-C7-C8     |
| 25  | 5     | 615 | ZEX  | C25-C26-C27-C28 |
| 25  | 5     | 615 | ZEX  | C11-C10-C9-C8   |
| 25  | 5     | 615 | ZEX  | C11-C12-C13-C20 |
| 25  | 5     | 615 | ZEX  | C20-C13-C14-C15 |
| 25  | 5     | 615 | ZEX  | C40-C33-C34-C35 |
| 25  | 5     | 615 | ZEX  | C39-C29-C30-C31 |
| 25  | 5     | 616 | ZEX  | C25-C26-C27-C28 |
| 25  | 5     | 616 | ZEX  | C11-C10-C9-C19  |
| 25  | 5     | 616 | ZEX  | C9-C10-C11-C12  |
| 25  | 5     | 616 | ZEX  | C20-C13-C14-C15 |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 25  | 5     | 616 | ZEX  | C40-C33-C34-C35 |
| 25  | 5     | 616 | ZEX  | C32-C33-C34-C35 |
| 25  | 5     | 616 | ZEX  | C31-C32-C33-C40 |
| 25  | 5     | 616 | ZEX  | C39-C29-C30-C31 |
| 25  | 5     | 616 | ZEX  | C27-C28-C29-C39 |
| 25  | 5     | 617 | ZEX  | C5-C6-C7-C8     |
| 25  | 5     | 617 | ZEX  | C25-C26-C27-C28 |
| 25  | 5     | 617 | ZEX  | C7-C8-C9-C10    |
| 25  | 5     | 617 | ZEX  | C11-C10-C9-C19  |
| 25  | 5     | 617 | ZEX  | C20-C13-C14-C15 |
| 25  | 5     | 617 | ZEX  | C40-C33-C34-C35 |
| 25  | 5     | 617 | ZEX  | C32-C33-C34-C35 |
| 25  | 5     | 617 | ZEX  | C39-C29-C30-C31 |
| 25  | 5     | 617 | ZEX  | C28-C29-C30-C31 |
| 17  | A     | 813 | CLA  | O1D-CGD-O2D-CED |
| 17  | A     | 830 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 802 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 806 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 809 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 823 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 824 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 825 | CLA  | O1D-CGD-O2D-CED |
| 17  | F     | 301 | CLA  | O1D-CGD-O2D-CED |
| 17  | F     | 303 | CLA  | O1D-CGD-O2D-CED |
| 17  | L     | 204 | CLA  | O1D-CGD-O2D-CED |
| 17  | 1     | 606 | CLA  | O1D-CGD-O2D-CED |
| 17  | 1     | 610 | CLA  | O1D-CGD-O2D-CED |
| 17  | 1     | 611 | CLA  | O1D-CGD-O2D-CED |
| 17  | 2     | 610 | CLA  | O1D-CGD-O2D-CED |
| 17  | 3     | 203 | CLA  | O1D-CGD-O2D-CED |
| 17  | 3     | 207 | CLA  | O1D-CGD-O2D-CED |
| 17  | 4     | 608 | CLA  | O1D-CGD-O2D-CED |
| 17  | 5     | 609 | CLA  | O1D-CGD-O2D-CED |
| 17  | A     | 821 | CLA  | O1D-CGD-O2D-CED |
| 17  | A     | 827 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 819 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 837 | CLA  | O1D-CGD-O2D-CED |
| 17  | 2     | 605 | CLA  | O1D-CGD-O2D-CED |
| 17  | 2     | 611 | CLA  | O1D-CGD-O2D-CED |
| 17  | 2     | 613 | CLA  | O1D-CGD-O2D-CED |
| 17  | 3     | 209 | CLA  | O1D-CGD-O2D-CED |
| 17  | 5     | 610 | CLA  | O1D-CGD-O2D-CED |

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| <b>Mol</b> | <b>Chain</b> | <b>Res</b> | <b>Type</b> | <b>Atoms</b>    |
|------------|--------------|------------|-------------|-----------------|
| 17         | A            | 808        | CLA         | CBD-CGD-O2D-CED |
| 17         | A            | 816        | CLA         | CBD-CGD-O2D-CED |
| 17         | A            | 819        | CLA         | CBD-CGD-O2D-CED |
| 17         | A            | 827        | CLA         | CBD-CGD-O2D-CED |
| 17         | A            | 830        | CLA         | CBD-CGD-O2D-CED |
| 17         | A            | 831        | CLA         | CBD-CGD-O2D-CED |
| 17         | B            | 806        | CLA         | CBD-CGD-O2D-CED |
| 17         | B            | 808        | CLA         | CBD-CGD-O2D-CED |
| 17         | B            | 812        | CLA         | CBD-CGD-O2D-CED |
| 17         | B            | 818        | CLA         | CBD-CGD-O2D-CED |
| 17         | B            | 821        | CLA         | CBD-CGD-O2D-CED |
| 17         | B            | 823        | CLA         | CBD-CGD-O2D-CED |
| 17         | B            | 826        | CLA         | CBD-CGD-O2D-CED |
| 17         | B            | 839        | CLA         | CBD-CGD-O2D-CED |
| 17         | B            | 840        | CLA         | CBD-CGD-O2D-CED |
| 17         | B            | 843        | CLA         | CBD-CGD-O2D-CED |
| 17         | F            | 303        | CLA         | CBD-CGD-O2D-CED |
| 17         | J            | 102        | CLA         | CBD-CGD-O2D-CED |
| 17         | O            | 203        | CLA         | CBD-CGD-O2D-CED |
| 17         | O            | 204        | CLA         | CBD-CGD-O2D-CED |
| 17         | O            | 205        | CLA         | CBD-CGD-O2D-CED |
| 17         | 1            | 602        | CLA         | CBD-CGD-O2D-CED |
| 17         | 1            | 603        | CLA         | CBD-CGD-O2D-CED |
| 17         | 1            | 608        | CLA         | CBD-CGD-O2D-CED |
| 17         | 1            | 610        | CLA         | CBD-CGD-O2D-CED |
| 17         | 1            | 611        | CLA         | CBD-CGD-O2D-CED |
| 17         | 1            | 612        | CLA         | CBD-CGD-O2D-CED |
| 17         | 2            | 602        | CLA         | CBD-CGD-O2D-CED |
| 17         | 2            | 611        | CLA         | CBD-CGD-O2D-CED |
| 17         | 3            | 208        | CLA         | CBD-CGD-O2D-CED |
| 17         | 3            | 213        | CLA         | CBD-CGD-O2D-CED |
| 17         | 4            | 604        | CLA         | CBD-CGD-O2D-CED |
| 17         | 4            | 607        | CLA         | CBD-CGD-O2D-CED |
| 17         | 4            | 608        | CLA         | CBD-CGD-O2D-CED |
| 17         | 5            | 602        | CLA         | CBD-CGD-O2D-CED |
| 17         | 5            | 603        | CLA         | CBD-CGD-O2D-CED |
| 17         | 5            | 605        | CLA         | CBD-CGD-O2D-CED |
| 17         | 5            | 612        | CLA         | CBD-CGD-O2D-CED |
| 17         | A            | 835        | CLA         | O1A-CGA-O2A-C1  |
| 17         | 3            | 212        | CLA         | O1A-CGA-O2A-C1  |
| 17         | 5            | 609        | CLA         | C4C-C3C-CAC-CBC |
| 17         | A            | 808        | CLA         | O1D-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 17  | A     | 819 | CLA  | O1D-CGD-O2D-CED |
| 17  | A     | 848 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 808 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 812 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 840 | CLA  | O1D-CGD-O2D-CED |
| 17  | O     | 203 | CLA  | O1D-CGD-O2D-CED |
| 17  | 1     | 608 | CLA  | O1D-CGD-O2D-CED |
| 17  | 3     | 208 | CLA  | O1D-CGD-O2D-CED |
| 17  | 5     | 602 | CLA  | O1D-CGD-O2D-CED |
| 17  | 5     | 603 | CLA  | O1D-CGD-O2D-CED |
| 17  | 5     | 609 | CLA  | C2C-C3C-CAC-CBC |
| 17  | A     | 805 | CLA  | O1D-CGD-O2D-CED |
| 17  | A     | 807 | CLA  | O1D-CGD-O2D-CED |
| 17  | A     | 811 | CLA  | O1D-CGD-O2D-CED |
| 17  | A     | 826 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 804 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 816 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 817 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 826 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 831 | CLA  | O1D-CGD-O2D-CED |
| 17  | J     | 103 | CLA  | O1D-CGD-O2D-CED |
| 17  | O     | 201 | CLA  | O1D-CGD-O2D-CED |
| 17  | 1     | 604 | CLA  | O1D-CGD-O2D-CED |
| 17  | 2     | 612 | CLA  | O1D-CGD-O2D-CED |
| 17  | 4     | 602 | CLA  | O1D-CGD-O2D-CED |
| 17  | 4     | 603 | CLA  | O1D-CGD-O2D-CED |
| 17  | 5     | 601 | CLA  | O1D-CGD-O2D-CED |
| 17  | 5     | 604 | CLA  | O1D-CGD-O2D-CED |
| 17  | 5     | 607 | CLA  | O1D-CGD-O2D-CED |
| 17  | A     | 803 | CLA  | CBD-CGD-O2D-CED |
| 17  | A     | 812 | CLA  | CBD-CGD-O2D-CED |
| 17  | A     | 823 | CLA  | CBD-CGD-O2D-CED |
| 17  | A     | 832 | CLA  | CBD-CGD-O2D-CED |
| 17  | B     | 841 | CLA  | CBD-CGD-O2D-CED |
| 17  | 2     | 601 | CLA  | CBD-CGD-O2D-CED |
| 17  | 2     | 606 | CLA  | CBD-CGD-O2D-CED |
| 17  | 2     | 609 | CLA  | CBD-CGD-O2D-CED |
| 17  | 3     | 206 | CLA  | CBD-CGD-O2D-CED |
| 17  | 3     | 210 | CLA  | CBD-CGD-O2D-CED |
| 17  | 5     | 608 | CLA  | CBD-CGD-O2D-CED |
| 17  | A     | 802 | CLA  | O1A-CGA-O2A-C1  |
| 17  | A     | 807 | CLA  | O1A-CGA-O2A-C1  |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 17  | A     | 815 | CLA  | O1A-CGA-O2A-C1  |
| 17  | A     | 838 | CLA  | O1A-CGA-O2A-C1  |
| 17  | B     | 814 | CLA  | O1A-CGA-O2A-C1  |
| 17  | B     | 821 | CLA  | O1A-CGA-O2A-C1  |
| 17  | L     | 202 | CLA  | O1A-CGA-O2A-C1  |
| 17  | 5     | 603 | CLA  | O1A-CGA-O2A-C1  |
| 24  | J     | 106 | 3XQ  | O19-C1-O20-C21  |
| 17  | B     | 832 | CLA  | O1D-CGD-O2D-CED |
| 17  | L     | 202 | CLA  | O1D-CGD-O2D-CED |
| 17  | 1     | 601 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 842 | CLA  | O1D-CGD-O2D-CED |
| 17  | A     | 814 | CLA  | CBD-CGD-O2D-CED |
| 17  | 2     | 608 | CLA  | CBD-CGD-O2D-CED |
| 17  | 5     | 605 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 841 | CLA  | O1A-CGA-O2A-C1  |
| 16  | A     | 801 | CL0  | C3-C5-C6-C7     |
| 17  | A     | 815 | CLA  | C3-C5-C6-C7     |
| 17  | A     | 822 | CLA  | C3-C5-C6-C7     |
| 17  | A     | 825 | CLA  | C3-C5-C6-C7     |
| 17  | A     | 832 | CLA  | C3-C5-C6-C7     |
| 17  | A     | 839 | CLA  | C3-C5-C6-C7     |
| 17  | B     | 811 | CLA  | C3-C5-C6-C7     |
| 17  | B     | 819 | CLA  | C3-C5-C6-C7     |
| 17  | B     | 821 | CLA  | C3-C5-C6-C7     |
| 17  | B     | 832 | CLA  | C3-C5-C6-C7     |
| 17  | J     | 102 | CLA  | C3-C5-C6-C7     |
| 17  | A     | 802 | CLA  | CBA-CGA-O2A-C1  |
| 17  | A     | 806 | CLA  | CBA-CGA-O2A-C1  |
| 17  | A     | 815 | CLA  | CBA-CGA-O2A-C1  |
| 17  | A     | 829 | CLA  | CBA-CGA-O2A-C1  |
| 17  | A     | 835 | CLA  | CBA-CGA-O2A-C1  |
| 17  | B     | 813 | CLA  | CBA-CGA-O2A-C1  |
| 17  | B     | 819 | CLA  | CBA-CGA-O2A-C1  |
| 17  | B     | 820 | CLA  | CBA-CGA-O2A-C1  |
| 17  | 5     | 603 | CLA  | CBA-CGA-O2A-C1  |
| 24  | J     | 106 | 3XQ  | C2-C1-O20-C21   |
| 17  | A     | 816 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 821 | CLA  | O1D-CGD-O2D-CED |
| 17  | J     | 102 | CLA  | O1D-CGD-O2D-CED |
| 17  | 1     | 602 | CLA  | O1D-CGD-O2D-CED |
| 17  | A     | 806 | CLA  | CBD-CGD-O2D-CED |
| 17  | A     | 828 | CLA  | CBD-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 17  | B     | 814 | CLA  | CBD-CGD-O2D-CED |
| 17  | A     | 848 | CLA  | C2C-C3C-CAC-CBC |
| 17  | 5     | 606 | CLA  | C2C-C3C-CAC-CBC |
| 17  | 3     | 209 | CLA  | C3-C5-C6-C7     |
| 17  | A     | 833 | CLA  | C2-C3-C5-C6     |
| 17  | 5     | 603 | CLA  | C2-C3-C5-C6     |
| 17  | A     | 833 | CLA  | CBD-CGD-O2D-CED |
| 17  | A     | 835 | CLA  | CBD-CGD-O2D-CED |
| 17  | 4     | 609 | CLA  | CBD-CGD-O2D-CED |
| 17  | B     | 827 | CLA  | C2A-CAA-CBA-CGA |
| 17  | B     | 835 | CLA  | C2A-CAA-CBA-CGA |
| 17  | 2     | 601 | CLA  | C2A-CAA-CBA-CGA |
| 17  | 2     | 606 | CLA  | C2A-CAA-CBA-CGA |
| 17  | 4     | 603 | CLA  | C2A-CAA-CBA-CGA |
| 17  | 4     | 607 | CLA  | C2A-CAA-CBA-CGA |
| 17  | 5     | 604 | CLA  | C2A-CAA-CBA-CGA |
| 17  | 5     | 606 | CLA  | C2A-CAA-CBA-CGA |
| 17  | 5     | 608 | CLA  | C2A-CAA-CBA-CGA |
| 17  | 5     | 610 | CLA  | C2A-CAA-CBA-CGA |
| 17  | 2     | 602 | CLA  | O1D-CGD-O2D-CED |
| 17  | 5     | 612 | CLA  | O1D-CGD-O2D-CED |
| 17  | A     | 837 | CLA  | C3-C5-C6-C7     |
| 17  | B     | 820 | CLA  | C3-C5-C6-C7     |
| 17  | B     | 831 | CLA  | C3-C5-C6-C7     |
| 17  | A     | 807 | CLA  | CBA-CGA-O2A-C1  |
| 17  | A     | 808 | CLA  | CBA-CGA-O2A-C1  |
| 17  | A     | 817 | CLA  | CBA-CGA-O2A-C1  |
| 17  | A     | 838 | CLA  | CBA-CGA-O2A-C1  |
| 17  | B     | 814 | CLA  | CBA-CGA-O2A-C1  |
| 17  | B     | 821 | CLA  | CBA-CGA-O2A-C1  |
| 17  | B     | 841 | CLA  | CBA-CGA-O2A-C1  |
| 17  | L     | 202 | CLA  | CBA-CGA-O2A-C1  |
| 17  | 4     | 607 | CLA  | O1D-CGD-O2D-CED |
| 18  | A     | 840 | PQN  | C11-C12-C13-C14 |
| 18  | B     | 844 | PQN  | C11-C12-C13-C14 |
| 17  | A     | 809 | CLA  | CBD-CGD-O2D-CED |
| 17  | A     | 837 | CLA  | CBD-CGD-O2D-CED |
| 17  | B     | 807 | CLA  | CBD-CGD-O2D-CED |
| 17  | B     | 830 | CLA  | CBD-CGD-O2D-CED |
| 17  | B     | 818 | CLA  | O1D-CGD-O2D-CED |
| 17  | 1     | 603 | CLA  | O1D-CGD-O2D-CED |
| 17  | A     | 808 | CLA  | O1A-CGA-O2A-C1  |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 17  | A     | 809 | CLA  | O1A-CGA-O2A-C1  |
| 17  | A     | 817 | CLA  | O1A-CGA-O2A-C1  |
| 17  | B     | 820 | CLA  | O1A-CGA-O2A-C1  |
| 17  | B     | 826 | CLA  | O1A-CGA-O2A-C1  |
| 17  | B     | 824 | CLA  | O1A-CGA-O2A-C1  |
| 17  | O     | 204 | CLA  | O1D-CGD-O2D-CED |
| 20  | A     | 843 | BCR  | C13-C14-C15-C16 |
| 20  | A     | 844 | BCR  | C19-C20-C21-C22 |
| 20  | A     | 846 | BCR  | C9-C10-C11-C12  |
| 20  | B     | 849 | BCR  | C13-C14-C15-C16 |
| 20  | B     | 849 | BCR  | C19-C20-C21-C22 |
| 20  | B     | 850 | BCR  | C15-C16-C17-C18 |
| 20  | F     | 304 | BCR  | C19-C20-C21-C22 |
| 20  | K     | 104 | BCR  | C15-C16-C17-C18 |
| 25  | 1     | 614 | ZEX  | C33-C34-C35-C15 |
| 25  | 1     | 614 | ZEX  | C29-C30-C31-C32 |
| 25  | 1     | 615 | ZEX  | C13-C14-C15-C35 |
| 25  | 1     | 616 | ZEX  | C33-C34-C35-C15 |
| 25  | 2     | 615 | ZEX  | C9-C10-C11-C12  |
| 25  | 2     | 617 | ZEX  | C9-C10-C11-C12  |
| 25  | 3     | 201 | ZEX  | C29-C30-C31-C32 |
| 25  | 3     | 216 | ZEX  | C33-C34-C35-C15 |
| 25  | 4     | 615 | ZEX  | C9-C10-C11-C12  |
| 25  | 4     | 617 | ZEX  | C9-C10-C11-C12  |
| 25  | 5     | 614 | ZEX  | C9-C10-C11-C12  |
| 25  | 5     | 614 | ZEX  | C33-C34-C35-C15 |
| 25  | 5     | 615 | ZEX  | C13-C14-C15-C35 |
| 25  | 5     | 615 | ZEX  | C29-C30-C31-C32 |
| 25  | 5     | 617 | ZEX  | C33-C34-C35-C15 |
| 25  | 5     | 617 | ZEX  | C29-C30-C31-C32 |
| 17  | A     | 822 | CLA  | CBD-CGD-O2D-CED |
| 17  | A     | 834 | CLA  | CBD-CGD-O2D-CED |
| 17  | B     | 822 | CLA  | CBD-CGD-O2D-CED |
| 17  | B     | 833 | CLA  | CBD-CGD-O2D-CED |
| 17  | 1     | 607 | CLA  | CBD-CGD-O2D-CED |
| 17  | 3     | 205 | CLA  | CBD-CGD-O2D-CED |
| 17  | A     | 831 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 839 | CLA  | O1D-CGD-O2D-CED |
| 17  | 3     | 213 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 838 | CLA  | C3-C5-C6-C7     |
| 17  | A     | 809 | CLA  | CBA-CGA-O2A-C1  |
| 17  | B     | 826 | CLA  | CBA-CGA-O2A-C1  |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 19  | A     | 841 | LHG  | C24-C23-O8-C6   |
| 17  | A     | 806 | CLA  | O1A-CGA-O2A-C1  |
| 17  | A     | 829 | CLA  | O1A-CGA-O2A-C1  |
| 17  | B     | 813 | CLA  | O1A-CGA-O2A-C1  |
| 17  | B     | 819 | CLA  | O1A-CGA-O2A-C1  |
| 19  | A     | 841 | LHG  | O10-C23-O8-C6   |
| 22  | A     | 849 | BGC  | O5-C5-C6-O6     |
| 17  | B     | 803 | CLA  | CBD-CGD-O2D-CED |
| 17  | K     | 102 | CLA  | CBD-CGD-O2D-CED |
| 17  | K     | 103 | CLA  | CBD-CGD-O2D-CED |
| 17  | 5     | 606 | CLA  | C4C-C3C-CAC-CBC |
| 17  | O     | 205 | CLA  | O1D-CGD-O2D-CED |
| 17  | 4     | 604 | CLA  | O1D-CGD-O2D-CED |
| 19  | A     | 841 | LHG  | C23-C24-C25-C26 |
| 19  | A     | 841 | LHG  | O9-C7-O7-C5     |
| 17  | 2     | 611 | CLA  | C2C-C3C-CAC-CBC |
| 17  | 5     | 607 | CLA  | C2C-C3C-CAC-CBC |
| 17  | A     | 815 | CLA  | C4-C3-C5-C6     |
| 17  | B     | 841 | CLA  | C4-C3-C5-C6     |
| 17  | A     | 815 | CLA  | C2-C3-C5-C6     |
| 17  | B     | 841 | CLA  | C2-C3-C5-C6     |
| 17  | A     | 839 | CLA  | CBD-CGD-O2D-CED |
| 17  | A     | 839 | CLA  | C2A-CAA-CBA-CGA |
| 17  | B     | 804 | CLA  | C2A-CAA-CBA-CGA |
| 17  | B     | 807 | CLA  | C2A-CAA-CBA-CGA |
| 17  | 4     | 611 | CLA  | C2A-CAA-CBA-CGA |
| 17  | A     | 818 | CLA  | C2C-C3C-CAC-CBC |
| 17  | B     | 804 | CLA  | C3-C5-C6-C7     |
| 17  | A     | 832 | CLA  | O1D-CGD-O2D-CED |
| 17  | 1     | 612 | CLA  | O1D-CGD-O2D-CED |
| 17  | 5     | 608 | CLA  | O1D-CGD-O2D-CED |
| 17  | A     | 803 | CLA  | O1D-CGD-O2D-CED |
| 17  | A     | 812 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 843 | CLA  | O1D-CGD-O2D-CED |
| 17  | 3     | 206 | CLA  | O1D-CGD-O2D-CED |
| 19  | A     | 842 | LHG  | C1-C2-C3-O3     |
| 17  | 2     | 609 | CLA  | O1D-CGD-O2D-CED |
| 16  | A     | 801 | CL0  | CBA-CGA-O2A-C1  |
| 17  | A     | 819 | CLA  | CBA-CGA-O2A-C1  |
| 17  | A     | 820 | CLA  | CBA-CGA-O2A-C1  |
| 17  | A     | 824 | CLA  | CBA-CGA-O2A-C1  |
| 17  | A     | 826 | CLA  | CBA-CGA-O2A-C1  |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 17  | A     | 831 | CLA  | CBA-CGA-O2A-C1  |
| 17  | A     | 836 | CLA  | CBA-CGA-O2A-C1  |
| 17  | B     | 806 | CLA  | CBA-CGA-O2A-C1  |
| 17  | B     | 831 | CLA  | CBA-CGA-O2A-C1  |
| 20  | J     | 105 | BCR  | C19-C20-C21-C22 |
| 20  | L     | 206 | BCR  | C13-C14-C15-C16 |
| 25  | 4     | 613 | ZEX  | C9-C10-C11-C12  |
| 25  | 5     | 615 | ZEX  | C33-C34-C35-C15 |
| 25  | 5     | 616 | ZEX  | C33-C34-C35-C15 |
| 17  | A     | 826 | CLA  | C10-C11-C12-C13 |
| 24  | J     | 106 | 3XQ  | O20-C21-C22-C24 |
| 17  | B     | 821 | CLA  | C10-C11-C12-C13 |
| 17  | B     | 835 | CLA  | C15-C16-C17-C18 |
| 19  | A     | 841 | LHG  | O2-C2-C3-O3     |
| 17  | A     | 805 | CLA  | C3-C5-C6-C7     |
| 17  | A     | 819 | CLA  | O1A-CGA-O2A-C1  |
| 17  | A     | 820 | CLA  | O1A-CGA-O2A-C1  |
| 17  | B     | 831 | CLA  | O1A-CGA-O2A-C1  |
| 17  | A     | 831 | CLA  | C14-C13-C15-C16 |
| 17  | B     | 804 | CLA  | C14-C13-C15-C16 |
| 17  | B     | 808 | CLA  | C14-C13-C15-C16 |
| 17  | B     | 811 | CLA  | C14-C13-C15-C16 |
| 17  | B     | 820 | CLA  | C11-C10-C8-C9   |
| 17  | B     | 829 | CLA  | C14-C13-C15-C16 |
| 17  | F     | 301 | CLA  | C6-C7-C8-C9     |
| 17  | A     | 823 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 841 | CLA  | O1D-CGD-O2D-CED |
| 17  | J     | 101 | CLA  | CBD-CGD-O2D-CED |
| 17  | B     | 804 | CLA  | C10-C11-C12-C13 |
| 17  | B     | 838 | CLA  | C5-C6-C7-C8     |
| 17  | A     | 819 | CLA  | C2A-CAA-CBA-CGA |
| 17  | B     | 814 | CLA  | C2A-CAA-CBA-CGA |
| 17  | B     | 830 | CLA  | C2A-CAA-CBA-CGA |
| 20  | A     | 844 | BCR  | C36-C18-C19-C20 |
| 20  | A     | 844 | BCR  | C37-C22-C23-C24 |
| 20  | A     | 845 | BCR  | C7-C8-C9-C34    |
| 20  | B     | 805 | BCR  | C37-C22-C23-C24 |
| 20  | B     | 845 | BCR  | C7-C8-C9-C34    |
| 20  | B     | 847 | BCR  | C7-C8-C9-C34    |
| 20  | B     | 850 | BCR  | C7-C8-C9-C34    |
| 20  | K     | 101 | BCR  | C37-C22-C23-C24 |
| 20  | K     | 104 | BCR  | C36-C18-C19-C20 |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 25  | 1     | 614 | ZEX  | C11-C12-C13-C20 |
| 25  | 1     | 615 | ZEX  | C7-C8-C9-C19    |
| 25  | 1     | 615 | ZEX  | C27-C28-C29-C39 |
| 25  | 1     | 617 | ZEX  | C7-C8-C9-C19    |
| 25  | 1     | 617 | ZEX  | C31-C32-C33-C40 |
| 25  | 1     | 617 | ZEX  | C27-C28-C29-C39 |
| 25  | 2     | 614 | ZEX  | C7-C8-C9-C19    |
| 25  | 2     | 614 | ZEX  | C27-C28-C29-C39 |
| 25  | 2     | 615 | ZEX  | C31-C32-C33-C40 |
| 25  | 3     | 201 | ZEX  | C7-C8-C9-C19    |
| 25  | 3     | 201 | ZEX  | C31-C32-C33-C40 |
| 25  | 3     | 214 | ZEX  | C7-C8-C9-C19    |
| 25  | 3     | 214 | ZEX  | C27-C28-C29-C39 |
| 25  | 3     | 215 | ZEX  | C11-C12-C13-C20 |
| 25  | 4     | 613 | ZEX  | C11-C12-C13-C20 |
| 25  | 4     | 614 | ZEX  | C27-C28-C29-C39 |
| 25  | 4     | 615 | ZEX  | C11-C12-C13-C20 |
| 25  | 4     | 616 | ZEX  | C27-C28-C29-C39 |
| 25  | 5     | 614 | ZEX  | C7-C8-C9-C19    |
| 25  | 5     | 614 | ZEX  | C31-C32-C33-C40 |
| 25  | 5     | 615 | ZEX  | C7-C8-C9-C19    |
| 25  | 5     | 615 | ZEX  | C31-C32-C33-C40 |
| 25  | 5     | 615 | ZEX  | C27-C28-C29-C39 |
| 25  | 5     | 616 | ZEX  | C11-C12-C13-C20 |
| 25  | 5     | 617 | ZEX  | C7-C8-C9-C19    |
| 25  | 5     | 617 | ZEX  | C11-C12-C13-C20 |
| 20  | A     | 844 | BCR  | C17-C18-C19-C20 |
| 20  | B     | 805 | BCR  | C7-C8-C9-C10    |
| 20  | B     | 805 | BCR  | C11-C12-C13-C14 |
| 20  | B     | 847 | BCR  | C7-C8-C9-C10    |
| 20  | B     | 848 | BCR  | C11-C12-C13-C14 |
| 20  | B     | 849 | BCR  | C7-C8-C9-C10    |
| 20  | B     | 849 | BCR  | C21-C22-C23-C24 |
| 20  | B     | 850 | BCR  | C7-C8-C9-C10    |
| 20  | F     | 304 | BCR  | C21-C22-C23-C24 |
| 20  | K     | 101 | BCR  | C21-C22-C23-C24 |
| 20  | L     | 201 | BCR  | C17-C18-C19-C20 |
| 25  | 1     | 614 | ZEX  | C31-C32-C33-C34 |
| 25  | 1     | 615 | ZEX  | C31-C32-C33-C34 |
| 25  | 2     | 615 | ZEX  | C7-C8-C9-C10    |
| 25  | 3     | 201 | ZEX  | C27-C28-C29-C30 |
| 25  | 3     | 215 | ZEX  | C7-C8-C9-C10    |

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| <b>Mol</b> | <b>Chain</b> | <b>Res</b> | <b>Type</b> | <b>Atoms</b>    |
|------------|--------------|------------|-------------|-----------------|
| 25         | 3            | 216        | ZEX         | C11-C12-C13-C14 |
| 25         | 3            | 217        | ZEX         | C31-C32-C33-C34 |
| 25         | 4            | 613        | ZEX         | C7-C8-C9-C10    |
| 25         | 4            | 613        | ZEX         | C27-C28-C29-C30 |
| 25         | 4            | 615        | ZEX         | C7-C8-C9-C10    |
| 25         | 4            | 615        | ZEX         | C27-C28-C29-C30 |
| 25         | 4            | 616        | ZEX         | C31-C32-C33-C34 |
| 25         | 4            | 617        | ZEX         | C7-C8-C9-C10    |
| 25         | 4            | 617        | ZEX         | C27-C28-C29-C30 |
| 25         | 5            | 617        | ZEX         | C31-C32-C33-C34 |
| 25         | 5            | 617        | ZEX         | C27-C28-C29-C30 |
| 17         | A            | 824        | CLA         | O1A-CGA-O2A-C1  |
| 17         | A            | 825        | CLA         | C15-C16-C17-C18 |
| 17         | A            | 836        | CLA         | C13-C15-C16-C17 |
| 17         | B            | 812        | CLA         | C13-C15-C16-C17 |
| 17         | B            | 820        | CLA         | C5-C6-C7-C8     |
| 17         | B            | 828        | CLA         | C10-C11-C12-C13 |
| 17         | 3            | 210        | CLA         | O1D-CGD-O2D-CED |
| 22         | A            | 849        | BGC         | C4-C5-C6-O6     |
| 17         | A            | 848        | CLA         | C4C-C3C-CAC-CBC |
| 17         | F            | 301        | CLA         | C3-C5-C6-C7     |
| 17         | B            | 834        | CLA         | C2A-CAA-CBA-CGA |
| 17         | A            | 839        | CLA         | CBA-CGA-O2A-C1  |
| 17         | B            | 804        | CLA         | CBA-CGA-O2A-C1  |
| 17         | A            | 833        | CLA         | C13-C15-C16-C17 |
| 17         | A            | 837        | CLA         | C15-C16-C17-C18 |
| 17         | A            | 839        | CLA         | C13-C15-C16-C17 |
| 17         | B            | 812        | CLA         | C15-C16-C17-C18 |
| 17         | B            | 815        | CLA         | C5-C6-C7-C8     |
| 17         | B            | 827        | CLA         | C15-C16-C17-C18 |
| 17         | A            | 807        | CLA         | C5-C6-C7-C8     |
| 17         | A            | 817        | CLA         | C13-C15-C16-C17 |
| 17         | A            | 827        | CLA         | C13-C15-C16-C17 |
| 17         | A            | 828        | CLA         | C10-C11-C12-C13 |
| 17         | A            | 839        | CLA         | C15-C16-C17-C18 |
| 17         | B            | 819        | CLA         | C5-C6-C7-C8     |
| 17         | B            | 820        | CLA         | C8-C10-C11-C12  |
| 17         | B            | 829        | CLA         | C13-C15-C16-C17 |
| 17         | 5            | 603        | CLA         | C5-C6-C7-C8     |
| 18         | B            | 844        | PQN         | C18-C20-C21-C22 |
| 16         | A            | 801        | CL0         | O1A-CGA-O2A-C1  |
| 19         | A            | 842        | LHG         | C23-C24-C25-C26 |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 17  | A     | 838 | CLA  | C5-C6-C7-C8     |
| 17  | B     | 806 | CLA  | C13-C15-C16-C17 |
| 17  | B     | 810 | CLA  | C13-C15-C16-C17 |
| 17  | B     | 816 | CLA  | C15-C16-C17-C18 |
| 17  | B     | 821 | CLA  | C5-C6-C7-C8     |
| 17  | A     | 832 | CLA  | CBA-CGA-O2A-C1  |
| 17  | B     | 835 | CLA  | CBA-CGA-O2A-C1  |
| 17  | A     | 805 | CLA  | C15-C16-C17-C18 |
| 17  | F     | 301 | CLA  | C10-C11-C12-C13 |
| 23  | B     | 851 | DGD  | C1B-C2B-C3B-C4B |
| 24  | J     | 106 | 3XQ  | C1-C2-C3-C4     |
| 17  | A     | 815 | CLA  | CBD-CGD-O2D-CED |
| 17  | 1     | 605 | CLA  | C2A-CAA-CBA-CGA |
| 17  | A     | 805 | CLA  | C11-C12-C13-C15 |
| 17  | A     | 806 | CLA  | C12-C13-C15-C16 |
| 17  | B     | 806 | CLA  | C11-C12-C13-C15 |
| 17  | B     | 820 | CLA  | C11-C10-C8-C7   |
| 17  | B     | 835 | CLA  | C6-C7-C8-C10    |
| 17  | A     | 807 | CLA  | C3-C5-C6-C7     |
| 17  | J     | 101 | CLA  | C3-C5-C6-C7     |
| 17  | L     | 202 | CLA  | C3-C5-C6-C7     |
| 17  | A     | 826 | CLA  | O1A-CGA-O2A-C1  |
| 17  | A     | 831 | CLA  | O1A-CGA-O2A-C1  |
| 17  | A     | 836 | CLA  | O1A-CGA-O2A-C1  |
| 20  | A     | 845 | BCR  | C9-C10-C11-C12  |
| 20  | A     | 845 | BCR  | C19-C20-C21-C22 |
| 20  | B     | 805 | BCR  | C9-C10-C11-C12  |
| 20  | B     | 845 | BCR  | C13-C14-C15-C16 |
| 20  | B     | 847 | BCR  | C9-C10-C11-C12  |
| 20  | B     | 848 | BCR  | C9-C10-C11-C12  |
| 20  | L     | 206 | BCR  | C9-C10-C11-C12  |
| 25  | 1     | 613 | ZEX  | C9-C10-C11-C12  |
| 25  | 1     | 615 | ZEX  | C33-C34-C35-C15 |
| 25  | 3     | 217 | ZEX  | C29-C30-C31-C32 |
| 25  | 4     | 616 | ZEX  | C9-C10-C11-C12  |
| 25  | 5     | 616 | ZEX  | C13-C14-C15-C35 |
| 17  | 2     | 608 | CLA  | CBA-CGA-O2A-C1  |
| 17  | A     | 827 | CLA  | C2A-CAA-CBA-CGA |
| 17  | B     | 813 | CLA  | C2A-CAA-CBA-CGA |
| 17  | 1     | 606 | CLA  | C2A-CAA-CBA-CGA |
| 17  | 1     | 612 | CLA  | C2A-CAA-CBA-CGA |
| 17  | 2     | 601 | CLA  | O1D-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 17  | 2     | 606 | CLA  | O1D-CGD-O2D-CED |
| 17  | 2     | 608 | CLA  | O1D-CGD-O2D-CED |
| 17  | A     | 828 | CLA  | C13-C15-C16-C17 |
| 17  | B     | 841 | CLA  | C8-C10-C11-C12  |
| 17  | J     | 102 | CLA  | C5-C6-C7-C8     |
| 17  | A     | 818 | CLA  | C4C-C3C-CAC-CBC |
| 17  | B     | 806 | CLA  | O1A-CGA-O2A-C1  |
| 17  | A     | 807 | CLA  | C10-C11-C12-C13 |
| 17  | A     | 848 | CLA  | C10-C11-C12-C13 |
| 17  | B     | 827 | CLA  | C5-C6-C7-C8     |
| 20  | A     | 844 | BCR  | C10-C11-C12-C13 |
| 20  | B     | 845 | BCR  | C18-C19-C20-C21 |
| 20  | B     | 846 | BCR  | C18-C19-C20-C21 |
| 20  | B     | 847 | BCR  | C10-C11-C12-C13 |
| 20  | B     | 847 | BCR  | C18-C19-C20-C21 |
| 20  | B     | 848 | BCR  | C18-C19-C20-C21 |
| 20  | F     | 304 | BCR  | C10-C11-C12-C13 |
| 20  | J     | 104 | BCR  | C18-C19-C20-C21 |
| 20  | K     | 101 | BCR  | C10-C11-C12-C13 |
| 20  | L     | 201 | BCR  | C18-C19-C20-C21 |
| 20  | L     | 205 | BCR  | C10-C11-C12-C13 |
| 20  | L     | 206 | BCR  | C10-C11-C12-C13 |
| 20  | O     | 202 | BCR  | C10-C11-C12-C13 |
| 20  | O     | 202 | BCR  | C18-C19-C20-C21 |
| 17  | A     | 802 | CLA  | C3-C5-C6-C7     |
| 17  | A     | 839 | CLA  | C5-C6-C7-C8     |
| 17  | B     | 816 | CLA  | C10-C11-C12-C13 |
| 17  | B     | 832 | CLA  | C15-C16-C17-C18 |
| 18  | A     | 840 | PQN  | C18-C20-C21-C22 |
| 17  | A     | 839 | CLA  | O1A-CGA-O2A-C1  |
| 17  | B     | 835 | CLA  | O1A-CGA-O2A-C1  |
| 17  | 4     | 602 | CLA  | O1A-CGA-O2A-C1  |
| 17  | A     | 827 | CLA  | C8-C10-C11-C12  |
| 17  | A     | 831 | CLA  | C8-C10-C11-C12  |
| 17  | B     | 801 | CLA  | C5-C6-C7-C8     |
| 17  | B     | 812 | CLA  | C5-C6-C7-C8     |
| 17  | B     | 829 | CLA  | C5-C6-C7-C8     |
| 17  | B     | 835 | CLA  | C13-C15-C16-C17 |
| 17  | B     | 843 | CLA  | C13-C15-C16-C17 |
| 17  | 3     | 203 | CLA  | C13-C15-C16-C17 |
| 18  | B     | 844 | PQN  | C20-C21-C22-C23 |
| 17  | B     | 838 | CLA  | C2C-C3C-CAC-CBC |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 17  | A     | 814 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 804 | CLA  | O1A-CGA-O2A-C1  |
| 17  | 2     | 608 | CLA  | O1A-CGA-O2A-C1  |
| 19  | A     | 841 | LHG  | C8-C7-O7-C5     |
| 17  | A     | 809 | CLA  | C8-C10-C11-C12  |
| 17  | A     | 833 | CLA  | C8-C10-C11-C12  |
| 17  | A     | 825 | CLA  | CBA-CGA-O2A-C1  |
| 17  | A     | 828 | CLA  | CBA-CGA-O2A-C1  |
| 17  | B     | 809 | CLA  | CBA-CGA-O2A-C1  |
| 17  | 4     | 602 | CLA  | CBA-CGA-O2A-C1  |
| 17  | A     | 806 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 830 | CLA  | O1D-CGD-O2D-CED |
| 17  | L     | 203 | CLA  | CBD-CGD-O2D-CED |
| 17  | B     | 822 | CLA  | C8-C10-C11-C12  |
| 17  | B     | 832 | CLA  | C8-C10-C11-C12  |
| 17  | B     | 836 | CLA  | C10-C11-C12-C13 |
| 17  | B     | 839 | CLA  | C5-C6-C7-C8     |
| 17  | A     | 823 | CLA  | C8-C10-C11-C12  |
| 17  | B     | 812 | CLA  | C10-C11-C12-C13 |
| 17  | B     | 830 | CLA  | C8-C10-C11-C12  |
| 17  | 4     | 601 | CLA  | CBD-CGD-O2D-CED |
| 17  | A     | 815 | CLA  | C2A-CAA-CBA-CGA |
| 17  | A     | 826 | CLA  | C2A-CAA-CBA-CGA |
| 17  | B     | 802 | CLA  | C2A-CAA-CBA-CGA |
| 17  | B     | 819 | CLA  | C2A-CAA-CBA-CGA |
| 17  | F     | 302 | CLA  | C2A-CAA-CBA-CGA |
| 17  | 3     | 203 | CLA  | C2A-CAA-CBA-CGA |
| 17  | 5     | 603 | CLA  | C16-C17-C18-C20 |
| 17  | A     | 830 | CLA  | CBA-CGA-O2A-C1  |
| 17  | B     | 803 | CLA  | C5-C6-C7-C8     |
| 20  | B     | 847 | BCR  | C14-C15-C16-C17 |
| 17  | 4     | 609 | CLA  | O1D-CGD-O2D-CED |
| 20  | B     | 847 | BCR  | C19-C20-C21-C22 |
| 20  | O     | 202 | BCR  | C9-C10-C11-C12  |
| 25  | 1     | 614 | ZEX  | C13-C14-C15-C35 |
| 25  | 2     | 614 | ZEX  | C9-C10-C11-C12  |
| 25  | 2     | 616 | ZEX  | C29-C30-C31-C32 |
| 25  | 3     | 214 | ZEX  | C33-C34-C35-C15 |
| 25  | 3     | 216 | ZEX  | C29-C30-C31-C32 |
| 25  | 4     | 613 | ZEX  | C29-C30-C31-C32 |
| 17  | A     | 809 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 810 | CLA  | C5-C6-C7-C8     |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 20  | A     | 843 | BCR  | C20-C21-C22-C37 |
| 20  | B     | 845 | BCR  | C35-C13-C14-C15 |
| 20  | B     | 846 | BCR  | C20-C21-C22-C37 |
| 20  | B     | 847 | BCR  | C20-C21-C22-C37 |
| 20  | B     | 848 | BCR  | C16-C17-C18-C36 |
| 20  | B     | 849 | BCR  | C35-C13-C14-C15 |
| 20  | F     | 304 | BCR  | C35-C13-C14-C15 |
| 20  | F     | 304 | BCR  | C20-C21-C22-C37 |
| 20  | J     | 104 | BCR  | C16-C17-C18-C36 |
| 20  | J     | 104 | BCR  | C20-C21-C22-C37 |
| 20  | J     | 105 | BCR  | C16-C17-C18-C36 |
| 20  | K     | 104 | BCR  | C20-C21-C22-C37 |
| 20  | L     | 201 | BCR  | C11-C10-C9-C34  |
| 20  | L     | 201 | BCR  | C16-C17-C18-C36 |
| 20  | L     | 201 | BCR  | C20-C21-C22-C37 |
| 25  | 1     | 613 | ZEX  | C11-C10-C9-C19  |
| 25  | 1     | 617 | ZEX  | C40-C33-C34-C35 |
| 25  | 3     | 218 | ZEX  | C20-C13-C14-C15 |
| 25  | 3     | 218 | ZEX  | C40-C33-C34-C35 |
| 25  | 4     | 612 | ZEX  | C11-C10-C9-C19  |
| 25  | 4     | 614 | ZEX  | C39-C29-C30-C31 |
| 25  | 5     | 615 | ZEX  | C11-C10-C9-C19  |
| 19  | A     | 841 | LHG  | C17-C18-C19-C20 |
| 19  | A     | 842 | LHG  | C12-C13-C14-C15 |
| 23  | B     | 851 | DGD  | C2A-C3A-C4A-C5A |
| 23  | B     | 851 | DGD  | C3A-C4A-C5A-C6A |
| 17  | A     | 828 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 807 | CLA  | O1D-CGD-O2D-CED |
| 17  | A     | 827 | CLA  | C16-C17-C18-C20 |
| 17  | A     | 833 | CLA  | C16-C17-C18-C19 |
| 17  | B     | 808 | CLA  | C16-C17-C18-C19 |
| 17  | B     | 838 | CLA  | C11-C12-C13-C14 |
| 17  | J     | 101 | CLA  | C16-C17-C18-C20 |
| 17  | 1     | 608 | CLA  | C11-C12-C13-C14 |
| 24  | J     | 106 | 3XQ  | C14-C15-C16-C17 |
| 17  | B     | 814 | CLA  | O1D-CGD-O2D-CED |
| 17  | F     | 301 | CLA  | C8-C10-C11-C12  |
| 17  | A     | 837 | CLA  | O1D-CGD-O2D-CED |
| 17  | A     | 832 | CLA  | O1A-CGA-O2A-C1  |
| 17  | 5     | 607 | CLA  | C4C-C3C-CAC-CBC |
| 23  | B     | 851 | DGD  | CCA-CDA-CEA-CFA |
| 24  | J     | 106 | 3XQ  | C12-C13-C14-C15 |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 24  | J     | 106 | 3XQ  | C2-C3-C4-C5     |
| 17  | B     | 829 | CLA  | C3-C5-C6-C7     |
| 17  | A     | 833 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 833 | CLA  | O1D-CGD-O2D-CED |
| 20  | A     | 843 | BCR  | C11-C10-C9-C8   |
| 20  | A     | 843 | BCR  | C16-C17-C18-C19 |
| 20  | A     | 844 | BCR  | C12-C13-C14-C15 |
| 20  | A     | 845 | BCR  | C11-C10-C9-C8   |
| 20  | A     | 845 | BCR  | C12-C13-C14-C15 |
| 20  | A     | 845 | BCR  | C16-C17-C18-C19 |
| 20  | B     | 805 | BCR  | C11-C10-C9-C8   |
| 20  | B     | 847 | BCR  | C16-C17-C18-C19 |
| 20  | B     | 848 | BCR  | C11-C10-C9-C8   |
| 20  | B     | 848 | BCR  | C20-C21-C22-C23 |
| 20  | B     | 849 | BCR  | C20-C21-C22-C23 |
| 20  | B     | 850 | BCR  | C11-C10-C9-C8   |
| 20  | I     | 101 | BCR  | C16-C17-C18-C19 |
| 20  | J     | 104 | BCR  | C16-C17-C18-C19 |
| 20  | K     | 104 | BCR  | C11-C10-C9-C8   |
| 20  | K     | 104 | BCR  | C20-C21-C22-C23 |
| 20  | L     | 205 | BCR  | C12-C13-C14-C15 |
| 20  | L     | 205 | BCR  | C16-C17-C18-C19 |
| 20  | L     | 206 | BCR  | C11-C10-C9-C8   |
| 20  | L     | 206 | BCR  | C20-C21-C22-C23 |
| 20  | O     | 202 | BCR  | C11-C10-C9-C8   |
| 20  | O     | 202 | BCR  | C20-C21-C22-C23 |
| 25  | 1     | 613 | ZEX  | C32-C33-C34-C35 |
| 25  | 1     | 615 | ZEX  | C28-C29-C30-C31 |
| 25  | 1     | 616 | ZEX  | C11-C10-C9-C8   |
| 25  | 1     | 617 | ZEX  | C12-C13-C14-C15 |
| 25  | 2     | 614 | ZEX  | C12-C13-C14-C15 |
| 25  | 2     | 616 | ZEX  | C28-C29-C30-C31 |
| 25  | 2     | 617 | ZEX  | C11-C10-C9-C8   |
| 25  | 2     | 617 | ZEX  | C12-C13-C14-C15 |
| 25  | 2     | 617 | ZEX  | C28-C29-C30-C31 |
| 25  | 3     | 216 | ZEX  | C12-C13-C14-C15 |
| 25  | 3     | 216 | ZEX  | C28-C29-C30-C31 |
| 25  | 3     | 218 | ZEX  | C12-C13-C14-C15 |
| 25  | 4     | 615 | ZEX  | C12-C13-C14-C15 |
| 25  | 4     | 615 | ZEX  | C32-C33-C34-C35 |
| 25  | 4     | 616 | ZEX  | C11-C10-C9-C8   |
| 25  | 5     | 615 | ZEX  | C32-C33-C34-C35 |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 25  | 5     | 615 | ZEX  | C28-C29-C30-C31 |
| 17  | B     | 810 | CLA  | CBA-CGA-O2A-C1  |
| 17  | B     | 840 | CLA  | CBA-CGA-O2A-C1  |
| 17  | 3     | 203 | CLA  | CBA-CGA-O2A-C1  |
| 17  | J     | 101 | CLA  | C5-C6-C7-C8     |
| 17  | A     | 825 | CLA  | O1A-CGA-O2A-C1  |
| 17  | A     | 827 | CLA  | C16-C17-C18-C19 |
| 17  | B     | 814 | CLA  | C6-C7-C8-C10    |
| 17  | B     | 839 | CLA  | C16-C17-C18-C19 |
| 17  | 1     | 607 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 802 | CLA  | C4-C3-C5-C6     |
| 17  | B     | 819 | CLA  | C4-C3-C5-C6     |
| 17  | L     | 202 | CLA  | C4-C3-C5-C6     |
| 19  | A     | 841 | LHG  | C11-C10-C9-C8   |
| 17  | A     | 806 | CLA  | C11-C12-C13-C14 |
| 17  | A     | 819 | CLA  | C11-C12-C13-C14 |
| 17  | B     | 806 | CLA  | C11-C12-C13-C14 |
| 17  | B     | 816 | CLA  | C14-C13-C15-C16 |
| 17  | B     | 821 | CLA  | C6-C7-C8-C9     |
| 17  | B     | 836 | CLA  | C11-C12-C13-C14 |
| 17  | B     | 838 | CLA  | C6-C7-C8-C9     |
| 17  | L     | 203 | CLA  | C11-C12-C13-C14 |
| 17  | 1     | 602 | CLA  | C11-C10-C8-C9   |
| 17  | A     | 804 | CLA  | CBD-CGD-O2D-CED |
| 19  | A     | 841 | LHG  | C18-C19-C20-C21 |
| 18  | A     | 840 | PQN  | C25-C26-C27-C28 |
| 17  | A     | 822 | CLA  | C2A-CAA-CBA-CGA |
| 17  | O     | 205 | CLA  | C2A-CAA-CBA-CGA |
| 17  | B     | 809 | CLA  | O1A-CGA-O2A-C1  |
| 20  | B     | 805 | BCR  | C7-C8-C9-C34    |
| 20  | B     | 849 | BCR  | C7-C8-C9-C34    |
| 25  | 1     | 616 | ZEX  | C7-C8-C9-C19    |
| 25  | 2     | 616 | ZEX  | C31-C32-C33-C40 |
| 25  | 2     | 617 | ZEX  | C31-C32-C33-C40 |
| 25  | 3     | 216 | ZEX  | C31-C32-C33-C40 |
| 25  | 3     | 218 | ZEX  | C31-C32-C33-C40 |
| 25  | 4     | 612 | ZEX  | C11-C12-C13-C20 |
| 25  | 4     | 612 | ZEX  | C31-C32-C33-C40 |
| 25  | 4     | 614 | ZEX  | C11-C12-C13-C20 |
| 25  | 5     | 614 | ZEX  | C11-C12-C13-C20 |
| 25  | 5     | 616 | ZEX  | C7-C8-C9-C19    |
| 23  | B     | 851 | DGD  | C4A-C5A-C6A-C7A |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 19  | A     | 842 | LHG  | O1-C1-C2-C3     |
| 20  | A     | 843 | BCR  | C7-C8-C9-C10    |
| 20  | B     | 846 | BCR  | C21-C22-C23-C24 |
| 20  | L     | 201 | BCR  | C21-C22-C23-C24 |
| 25  | 1     | 614 | ZEX  | C7-C8-C9-C10    |
| 25  | 1     | 616 | ZEX  | C11-C12-C13-C14 |
| 25  | 1     | 616 | ZEX  | C31-C32-C33-C34 |
| 25  | 2     | 614 | ZEX  | C27-C28-C29-C30 |
| 25  | 2     | 616 | ZEX  | C7-C8-C9-C10    |
| 25  | 2     | 616 | ZEX  | C31-C32-C33-C34 |
| 25  | 2     | 616 | ZEX  | C27-C28-C29-C30 |
| 25  | 3     | 214 | ZEX  | C31-C32-C33-C34 |
| 25  | 3     | 218 | ZEX  | C27-C28-C29-C30 |
| 25  | 4     | 612 | ZEX  | C7-C8-C9-C10    |
| 17  | 5     | 603 | CLA  | C3-C5-C6-C7     |
| 17  | A     | 809 | CLA  | C10-C11-C12-C13 |
| 17  | 3     | 203 | CLA  | C8-C10-C11-C12  |
| 19  | A     | 842 | LHG  | C11-C10-C9-C8   |
| 17  | A     | 817 | CLA  | CBD-CGD-O2D-CED |
| 19  | A     | 842 | LHG  | C10-C11-C12-C13 |
| 23  | B     | 851 | DGD  | C5B-C6B-C7B-C8B |
| 24  | J     | 106 | 3XQ  | C6-C7-C8-C9     |
| 17  | A     | 833 | CLA  | C16-C17-C18-C20 |
| 17  | B     | 826 | CLA  | C6-C7-C8-C9     |
| 17  | B     | 826 | CLA  | C6-C7-C8-C10    |
| 17  | B     | 839 | CLA  | C16-C17-C18-C20 |
| 17  | B     | 843 | CLA  | C16-C17-C18-C20 |
| 17  | 1     | 608 | CLA  | C11-C12-C13-C15 |
| 17  | 5     | 603 | CLA  | C16-C17-C18-C19 |
| 17  | J     | 101 | CLA  | C10-C11-C12-C13 |
| 17  | B     | 826 | CLA  | C5-C6-C7-C8     |
| 17  | B     | 828 | CLA  | C13-C15-C16-C17 |
| 17  | A     | 834 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 822 | CLA  | O1D-CGD-O2D-CED |
| 17  | A     | 823 | CLA  | C3A-C2A-CAA-CBA |
| 17  | A     | 826 | CLA  | C3A-C2A-CAA-CBA |
| 17  | A     | 831 | CLA  | C3A-C2A-CAA-CBA |
| 17  | B     | 813 | CLA  | C3A-C2A-CAA-CBA |
| 17  | B     | 831 | CLA  | C3A-C2A-CAA-CBA |
| 17  | F     | 301 | CLA  | C3A-C2A-CAA-CBA |
| 17  | J     | 101 | CLA  | C3A-C2A-CAA-CBA |
| 17  | L     | 202 | CLA  | C3A-C2A-CAA-CBA |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 17  | 1     | 601 | CLA  | C3A-C2A-CAA-CBA |
| 17  | 1     | 605 | CLA  | C3A-C2A-CAA-CBA |
| 17  | 2     | 606 | CLA  | C3A-C2A-CAA-CBA |
| 17  | 3     | 213 | CLA  | C3A-C2A-CAA-CBA |
| 17  | 4     | 603 | CLA  | C3A-C2A-CAA-CBA |
| 17  | 4     | 610 | CLA  | C3A-C2A-CAA-CBA |
| 25  | 2     | 617 | ZEX  | C29-C30-C31-C32 |
| 19  | A     | 841 | LHG  | C29-C30-C31-C32 |
| 19  | A     | 842 | LHG  | C14-C15-C16-C17 |
| 23  | B     | 851 | DGD  | C3B-C4B-C5B-C6B |
| 17  | A     | 835 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 843 | CLA  | C16-C17-C18-C19 |
| 17  | J     | 101 | CLA  | C16-C17-C18-C19 |
| 19  | A     | 842 | LHG  | C25-C26-C27-C28 |
| 20  | B     | 845 | BCR  | C14-C15-C16-C17 |
| 20  | B     | 848 | BCR  | C14-C15-C16-C17 |
| 17  | A     | 819 | CLA  | C4-C3-C5-C6     |
| 17  | B     | 803 | CLA  | C4-C3-C5-C6     |
| 17  | A     | 819 | CLA  | C2-C3-C5-C6     |
| 17  | B     | 819 | CLA  | C2-C3-C5-C6     |
| 17  | L     | 202 | CLA  | C2-C3-C5-C6     |
| 17  | B     | 803 | CLA  | O1D-CGD-O2D-CED |
| 17  | A     | 838 | CLA  | C2A-CAA-CBA-CGA |
| 17  | 1     | 603 | CLA  | C2A-CAA-CBA-CGA |
| 17  | B     | 814 | CLA  | C6-C7-C8-C9     |
| 17  | J     | 101 | CLA  | C13-C15-C16-C17 |
| 18  | A     | 840 | PQN  | C23-C25-C26-C27 |
| 23  | B     | 851 | DGD  | CDA-CEA-CFA-CGA |
| 23  | B     | 851 | DGD  | CBB-CCB-CDB-CEB |
| 23  | B     | 851 | DGD  | C6A-C7A-C8A-C9A |
| 17  | A     | 828 | CLA  | O1A-CGA-O2A-C1  |
| 17  | A     | 830 | CLA  | O1A-CGA-O2A-C1  |
| 17  | A     | 833 | CLA  | C5-C6-C7-C8     |
| 17  | A     | 822 | CLA  | O1D-CGD-O2D-CED |
| 17  | A     | 839 | CLA  | C2-C1-O2A-CGA   |
| 17  | 2     | 611 | CLA  | C4C-C3C-CAC-CBC |
| 17  | A     | 836 | CLA  | C15-C16-C17-C18 |
| 17  | B     | 801 | CLA  | C15-C16-C17-C18 |
| 17  | B     | 822 | CLA  | C15-C16-C17-C18 |
| 17  | L     | 203 | CLA  | C10-C11-C12-C13 |
| 25  | 1     | 617 | ZEX  | C21-C26-C27-C28 |
| 25  | 2     | 616 | ZEX  | C21-C26-C27-C28 |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 25  | 5     | 615 | ZEX  | C21-C26-C27-C28 |
| 17  | B     | 810 | CLA  | O1A-CGA-O2A-C1  |
| 20  | A     | 843 | BCR  | C1-C6-C7-C8     |
| 20  | A     | 843 | BCR  | C5-C6-C7-C8     |
| 20  | A     | 843 | BCR  | C23-C24-C25-C26 |
| 20  | A     | 843 | BCR  | C23-C24-C25-C30 |
| 20  | A     | 845 | BCR  | C1-C6-C7-C8     |
| 20  | A     | 845 | BCR  | C5-C6-C7-C8     |
| 20  | A     | 845 | BCR  | C23-C24-C25-C26 |
| 20  | A     | 845 | BCR  | C23-C24-C25-C30 |
| 20  | A     | 846 | BCR  | C5-C6-C7-C8     |
| 20  | B     | 805 | BCR  | C23-C24-C25-C26 |
| 20  | B     | 845 | BCR  | C1-C6-C7-C8     |
| 20  | B     | 845 | BCR  | C5-C6-C7-C8     |
| 20  | B     | 846 | BCR  | C5-C6-C7-C8     |
| 20  | B     | 847 | BCR  | C23-C24-C25-C26 |
| 20  | B     | 847 | BCR  | C23-C24-C25-C30 |
| 20  | B     | 848 | BCR  | C1-C6-C7-C8     |
| 20  | B     | 848 | BCR  | C5-C6-C7-C8     |
| 20  | B     | 849 | BCR  | C5-C6-C7-C8     |
| 20  | B     | 850 | BCR  | C23-C24-C25-C26 |
| 20  | F     | 304 | BCR  | C23-C24-C25-C26 |
| 20  | F     | 304 | BCR  | C23-C24-C25-C30 |
| 20  | J     | 104 | BCR  | C5-C6-C7-C8     |
| 20  | J     | 104 | BCR  | C23-C24-C25-C26 |
| 20  | J     | 105 | BCR  | C5-C6-C7-C8     |
| 20  | J     | 105 | BCR  | C23-C24-C25-C26 |
| 20  | K     | 101 | BCR  | C5-C6-C7-C8     |
| 20  | K     | 104 | BCR  | C23-C24-C25-C26 |
| 20  | L     | 201 | BCR  | C1-C6-C7-C8     |
| 20  | L     | 201 | BCR  | C5-C6-C7-C8     |
| 20  | L     | 201 | BCR  | C23-C24-C25-C26 |
| 20  | L     | 201 | BCR  | C23-C24-C25-C30 |
| 20  | L     | 205 | BCR  | C5-C6-C7-C8     |
| 20  | L     | 206 | BCR  | C1-C6-C7-C8     |
| 20  | L     | 206 | BCR  | C5-C6-C7-C8     |
| 20  | O     | 202 | BCR  | C5-C6-C7-C8     |
| 20  | O     | 202 | BCR  | C23-C24-C25-C26 |
| 25  | 1     | 615 | ZEX  | C1-C6-C7-C8     |
| 25  | 1     | 615 | ZEX  | C5-C6-C7-C8     |
| 25  | 2     | 614 | ZEX  | C5-C6-C7-C8     |
| 25  | 3     | 201 | ZEX  | C1-C6-C7-C8     |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 25  | 3     | 214 | ZEX  | C5-C6-C7-C8     |
| 25  | 3     | 218 | ZEX  | C5-C6-C7-C8     |
| 25  | 4     | 614 | ZEX  | C1-C6-C7-C8     |
| 25  | 4     | 617 | ZEX  | C5-C6-C7-C8     |
| 17  | 3     | 205 | CLA  | O1D-CGD-O2D-CED |
| 17  | A     | 805 | CLA  | CBA-CGA-O2A-C1  |
| 17  | F     | 301 | CLA  | CBA-CGA-O2A-C1  |
| 17  | A     | 839 | CLA  | C8-C10-C11-C12  |
| 17  | B     | 822 | CLA  | C5-C6-C7-C8     |
| 17  | B     | 831 | CLA  | C8-C10-C11-C12  |
| 17  | A     | 832 | CLA  | C2C-C3C-CAC-CBC |
| 17  | A     | 811 | CLA  | C5-C6-C7-C8     |
| 17  | A     | 825 | CLA  | C5-C6-C7-C8     |
| 23  | B     | 851 | DGD  | C5A-C6A-C7A-C8A |
| 17  | A     | 823 | CLA  | C4-C3-C5-C6     |
| 17  | A     | 806 | CLA  | C11-C12-C13-C15 |
| 17  | A     | 819 | CLA  | C11-C12-C13-C15 |
| 17  | A     | 823 | CLA  | C2-C3-C5-C6     |
| 17  | A     | 831 | CLA  | C12-C13-C15-C16 |
| 17  | A     | 836 | CLA  | C6-C7-C8-C10    |
| 17  | B     | 802 | CLA  | C2-C3-C5-C6     |
| 17  | B     | 803 | CLA  | C2-C3-C5-C6     |
| 17  | B     | 804 | CLA  | C11-C12-C13-C15 |
| 17  | B     | 812 | CLA  | C6-C7-C8-C10    |
| 17  | B     | 812 | CLA  | C11-C10-C8-C7   |
| 17  | B     | 816 | CLA  | C11-C12-C13-C15 |
| 17  | B     | 816 | CLA  | C12-C13-C15-C16 |
| 17  | B     | 820 | CLA  | C6-C7-C8-C10    |
| 17  | B     | 829 | CLA  | C12-C13-C15-C16 |
| 17  | B     | 836 | CLA  | C11-C12-C13-C15 |
| 17  | B     | 838 | CLA  | C6-C7-C8-C10    |
| 17  | B     | 838 | CLA  | C11-C10-C8-C7   |
| 17  | L     | 203 | CLA  | C11-C12-C13-C15 |
| 17  | 1     | 602 | CLA  | C11-C10-C8-C7   |
| 17  | B     | 840 | CLA  | O1A-CGA-O2A-C1  |
| 17  | 3     | 203 | CLA  | O1A-CGA-O2A-C1  |
| 17  | B     | 803 | CLA  | C10-C11-C12-C13 |
| 20  | B     | 849 | BCR  | C15-C16-C17-C18 |
| 25  | 2     | 614 | ZEX  | C29-C30-C31-C32 |
| 25  | 2     | 616 | ZEX  | C13-C14-C15-C35 |
| 17  | A     | 808 | CLA  | C6-C7-C8-C10    |
| 17  | K     | 103 | CLA  | O1D-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 17  | B     | 802 | CLA  | CBA-CGA-O2A-C1  |
| 17  | L     | 204 | CLA  | CBA-CGA-O2A-C1  |
| 19  | A     | 841 | LHG  | C24-C25-C26-C27 |
| 26  | 3     | 219 | 1DO  | C6-C7-C8-C9     |
| 17  | A     | 810 | CLA  | C2A-CAA-CBA-CGA |
| 17  | A     | 811 | CLA  | C2A-CAA-CBA-CGA |
| 17  | A     | 816 | CLA  | C2A-CAA-CBA-CGA |
| 17  | 1     | 602 | CLA  | C2A-CAA-CBA-CGA |
| 17  | 1     | 608 | CLA  | C2A-CAA-CBA-CGA |
| 17  | 4     | 604 | CLA  | C2A-CAA-CBA-CGA |
| 17  | 5     | 611 | CLA  | C2A-CAA-CBA-CGA |
| 17  | A     | 817 | CLA  | C15-C16-C17-C18 |
| 17  | A     | 831 | CLA  | C5-C6-C7-C8     |
| 17  | A     | 823 | CLA  | C13-C15-C16-C17 |
| 17  | B     | 810 | CLA  | C8-C10-C11-C12  |
| 17  | B     | 842 | CLA  | C8-C10-C11-C12  |
| 19  | A     | 841 | LHG  | C11-C12-C13-C14 |
| 20  | A     | 844 | BCR  | C22-C23-C24-C25 |
| 20  | L     | 205 | BCR  | C22-C23-C24-C25 |
| 17  | A     | 837 | CLA  | C16-C17-C18-C19 |
| 17  | B     | 829 | CLA  | C15-C16-C17-C18 |
| 17  | J     | 101 | CLA  | C8-C10-C11-C12  |
| 17  | B     | 801 | CLA  | C3-C5-C6-C7     |
| 17  | O     | 201 | CLA  | C3-C5-C6-C7     |
| 17  | B     | 802 | CLA  | C15-C16-C17-C18 |
| 17  | B     | 813 | CLA  | C13-C15-C16-C17 |
| 17  | B     | 816 | CLA  | C5-C6-C7-C8     |
| 17  | B     | 830 | CLA  | C5-C6-C7-C8     |
| 17  | A     | 805 | CLA  | C11-C12-C13-C14 |
| 17  | A     | 806 | CLA  | C14-C13-C15-C16 |
| 17  | A     | 836 | CLA  | C6-C7-C8-C9     |
| 17  | B     | 803 | CLA  | C11-C10-C8-C9   |
| 17  | B     | 810 | CLA  | C6-C7-C8-C9     |
| 17  | B     | 812 | CLA  | C11-C10-C8-C9   |
| 17  | B     | 813 | CLA  | C11-C10-C8-C9   |
| 17  | B     | 816 | CLA  | C11-C10-C8-C9   |
| 17  | B     | 820 | CLA  | C6-C7-C8-C9     |
| 17  | B     | 835 | CLA  | C6-C7-C8-C9     |
| 17  | B     | 836 | CLA  | C6-C7-C8-C9     |
| 17  | B     | 838 | CLA  | C11-C10-C8-C9   |
| 17  | B     | 822 | CLA  | C3-C5-C6-C7     |
| 17  | 2     | 602 | CLA  | C3-C5-C6-C7     |

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| <b>Mol</b> | <b>Chain</b> | <b>Res</b> | <b>Type</b> | <b>Atoms</b>    |
|------------|--------------|------------|-------------|-----------------|
| 17         | A            | 818        | CLA         | C2A-CAA-CBA-CGA |
| 17         | 2            | 608        | CLA         | C2A-CAA-CBA-CGA |
| 17         | 3            | 205        | CLA         | C2A-CAA-CBA-CGA |
| 17         | 3            | 206        | CLA         | C2A-CAA-CBA-CGA |
| 17         | 5            | 601        | CLA         | C2A-CAA-CBA-CGA |
| 20         | A            | 843        | BCR         | C7-C8-C9-C34    |
| 20         | B            | 848        | BCR         | C11-C12-C13-C35 |
| 20         | F            | 304        | BCR         | C11-C12-C13-C35 |
| 20         | L            | 206        | BCR         | C11-C12-C13-C35 |
| 25         | 3            | 215        | ZEX         | C7-C8-C9-C19    |
| 25         | 4            | 612        | ZEX         | C7-C8-C9-C19    |
| 25         | 4            | 614        | ZEX         | C7-C8-C9-C19    |
| 25         | 5            | 617        | ZEX         | C27-C28-C29-C39 |
| 17         | J            | 101        | CLA         | O1D-CGD-O2D-CED |
| 20         | A            | 845        | BCR         | C7-C8-C9-C10    |
| 20         | A            | 845        | BCR         | C17-C18-C19-C20 |
| 20         | I            | 101        | BCR         | C21-C22-C23-C24 |
| 25         | 4            | 614        | ZEX         | C27-C28-C29-C30 |
| 25         | 4            | 616        | ZEX         | C11-C12-C13-C14 |
| 17         | A            | 805        | CLA         | O1A-CGA-O2A-C1  |
| 17         | F            | 301        | CLA         | O1A-CGA-O2A-C1  |
| 23         | B            | 851        | DGD         | O1A-C1A-O1G-C1G |
| 17         | A            | 805        | CLA         | C1A-C2A-CAA-CBA |
| 17         | A            | 806        | CLA         | C1A-C2A-CAA-CBA |
| 17         | A            | 807        | CLA         | C1A-C2A-CAA-CBA |
| 17         | A            | 809        | CLA         | C1A-C2A-CAA-CBA |
| 17         | A            | 816        | CLA         | C1A-C2A-CAA-CBA |
| 17         | A            | 821        | CLA         | C1A-C2A-CAA-CBA |
| 17         | A            | 822        | CLA         | C1A-C2A-CAA-CBA |
| 17         | A            | 831        | CLA         | C1A-C2A-CAA-CBA |
| 17         | A            | 833        | CLA         | C1A-C2A-CAA-CBA |
| 17         | B            | 808        | CLA         | C1A-C2A-CAA-CBA |
| 17         | B            | 813        | CLA         | C1A-C2A-CAA-CBA |
| 17         | B            | 822        | CLA         | C1A-C2A-CAA-CBA |
| 17         | F            | 301        | CLA         | C1A-C2A-CAA-CBA |
| 17         | J            | 101        | CLA         | C1A-C2A-CAA-CBA |
| 17         | J            | 102        | CLA         | C1A-C2A-CAA-CBA |
| 17         | K            | 102        | CLA         | C1A-C2A-CAA-CBA |
| 17         | O            | 205        | CLA         | C1A-C2A-CAA-CBA |
| 17         | 1            | 602        | CLA         | C1A-C2A-CAA-CBA |
| 17         | 1            | 605        | CLA         | C1A-C2A-CAA-CBA |
| 17         | 1            | 607        | CLA         | C1A-C2A-CAA-CBA |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 17  | 1     | 608 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 2     | 602 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 2     | 606 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 3     | 203 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 3     | 208 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 3     | 209 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 3     | 213 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 4     | 601 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 4     | 603 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 4     | 605 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 4     | 606 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 4     | 607 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 4     | 608 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 4     | 610 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 5     | 601 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 5     | 604 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 5     | 607 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 5     | 610 | CLA  | C1A-C2A-CAA-CBA |
| 17  | A     | 808 | CLA  | C6-C7-C8-C9     |
| 17  | A     | 837 | CLA  | C16-C17-C18-C20 |
| 17  | B     | 808 | CLA  | C16-C17-C18-C20 |
| 23  | B     | 851 | DGD  | C8A-C9A-CAA-CBA |
| 20  | F     | 304 | BCR  | C13-C14-C15-C16 |
| 20  | J     | 104 | BCR  | C19-C20-C21-C22 |
| 25  | 3     | 215 | ZEX  | C9-C10-C11-C12  |
| 25  | 4     | 616 | ZEX  | C33-C34-C35-C15 |
| 25  | 5     | 614 | ZEX  | C13-C14-C15-C35 |
| 25  | 5     | 617 | ZEX  | C13-C14-C15-C35 |
| 16  | A     | 801 | CL0  | C13-C15-C16-C17 |
| 17  | B     | 839 | CLA  | C13-C15-C16-C17 |
| 17  | 5     | 603 | CLA  | C10-C11-C12-C13 |
| 17  | A     | 838 | CLA  | CBD-CGD-O2D-CED |
| 17  | B     | 827 | CLA  | C3-C5-C6-C7     |
| 19  | A     | 841 | LHG  | C15-C16-C17-C18 |
| 26  | 3     | 219 | 1DO  | O2S-C1-C2-C3    |
| 24  | J     | 106 | 3XQ  | C11-C12-C13-C14 |
| 17  | B     | 838 | CLA  | C11-C12-C13-C15 |
| 17  | A     | 839 | CLA  | O1D-CGD-O2D-CED |
| 25  | 2     | 615 | ZEX  | C25-C26-C27-C28 |
| 25  | 3     | 218 | ZEX  | C25-C26-C27-C28 |
| 25  | 4     | 612 | ZEX  | C25-C26-C27-C28 |
| 25  | 4     | 613 | ZEX  | C25-C26-C27-C28 |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 25  | 5     | 614 | ZEX  | C25-C26-C27-C28 |
| 17  | B     | 843 | CLA  | C15-C16-C17-C18 |
| 17  | A     | 804 | CLA  | CBA-CGA-O2A-C1  |
| 17  | B     | 839 | CLA  | CBA-CGA-O2A-C1  |
| 23  | B     | 851 | DGD  | O6E-C5E-C6E-O5E |
| 17  | B     | 816 | CLA  | C4-C3-C5-C6     |
| 17  | 4     | 608 | CLA  | C2A-CAA-CBA-CGA |
| 23  | B     | 851 | DGD  | O1G-C1G-C2G-C3G |
| 23  | B     | 851 | DGD  | C1G-C2G-C3G-O3G |
| 17  | B     | 802 | CLA  | O1A-CGA-O2A-C1  |
| 17  | A     | 815 | CLA  | C10-C11-C12-C13 |
| 25  | 1     | 616 | ZEX  | C9-C10-C11-C12  |
| 17  | 4     | 602 | CLA  | C11-C12-C13-C14 |
| 18  | A     | 840 | PQN  | C14-C13-C15-C16 |
| 17  | L     | 202 | CLA  | C8-C10-C11-C12  |
| 17  | L     | 204 | CLA  | O1A-CGA-O2A-C1  |
| 17  | A     | 810 | CLA  | CBA-CGA-O2A-C1  |
| 17  | A     | 808 | CLA  | C5-C6-C7-C8     |
| 17  | B     | 841 | CLA  | C2A-CAA-CBA-CGA |
| 17  | A     | 807 | CLA  | C13-C15-C16-C17 |
| 16  | A     | 801 | CL0  | C2-C1-O2A-CGA   |
| 17  | B     | 830 | CLA  | CBA-CGA-O2A-C1  |
| 17  | 3     | 213 | CLA  | CBA-CGA-O2A-C1  |
| 18  | A     | 840 | PQN  | C26-C27-C28-C30 |
| 17  | B     | 806 | CLA  | C10-C11-C12-C13 |
| 17  | K     | 102 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 804 | CLA  | C13-C15-C16-C17 |
| 17  | B     | 809 | CLA  | C8-C10-C11-C12  |
| 17  | L     | 202 | CLA  | C5-C6-C7-C8     |
| 25  | 3     | 214 | ZEX  | C11-C10-C9-C8   |
| 17  | A     | 809 | CLA  | C15-C16-C17-C18 |
| 17  | A     | 833 | CLA  | C10-C11-C12-C13 |
| 17  | A     | 815 | CLA  | O1D-CGD-O2D-CED |
| 17  | A     | 826 | CLA  | C4-C3-C5-C6     |
| 17  | B     | 830 | CLA  | C4-C3-C5-C6     |
| 17  | F     | 301 | CLA  | C4-C3-C5-C6     |
| 18  | B     | 844 | PQN  | C14-C13-C15-C16 |
| 17  | A     | 807 | CLA  | C11-C10-C8-C7   |
| 17  | A     | 817 | CLA  | C6-C7-C8-C10    |
| 17  | A     | 819 | CLA  | C6-C7-C8-C10    |
| 17  | A     | 823 | CLA  | C11-C10-C8-C7   |
| 17  | B     | 803 | CLA  | C11-C10-C8-C7   |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 17  | B     | 806 | CLA  | C6-C7-C8-C10    |
| 17  | B     | 808 | CLA  | C12-C13-C15-C16 |
| 17  | B     | 810 | CLA  | C6-C7-C8-C10    |
| 17  | B     | 813 | CLA  | C11-C10-C8-C7   |
| 17  | B     | 816 | CLA  | C2-C3-C5-C6     |
| 17  | B     | 816 | CLA  | C11-C10-C8-C7   |
| 17  | B     | 827 | CLA  | C11-C12-C13-C15 |
| 17  | B     | 830 | CLA  | C2-C3-C5-C6     |
| 17  | B     | 836 | CLA  | C6-C7-C8-C10    |
| 17  | B     | 836 | CLA  | C11-C10-C8-C7   |
| 17  | B     | 841 | CLA  | C6-C7-C8-C10    |
| 17  | B     | 842 | CLA  | C11-C10-C8-C7   |
| 17  | J     | 101 | CLA  | C11-C12-C13-C15 |
| 17  | 3     | 203 | CLA  | C6-C7-C8-C10    |
| 17  | 3     | 203 | CLA  | C11-C10-C8-C7   |
| 17  | B     | 806 | CLA  | CAA-CBA-CGA-O2A |
| 17  | A     | 804 | CLA  | O1A-CGA-O2A-C1  |
| 17  | A     | 807 | CLA  | C11-C10-C8-C9   |
| 17  | A     | 819 | CLA  | C6-C7-C8-C9     |
| 17  | A     | 823 | CLA  | C11-C10-C8-C9   |
| 17  | A     | 832 | CLA  | C6-C7-C8-C9     |
| 17  | A     | 833 | CLA  | C11-C10-C8-C9   |
| 17  | A     | 833 | CLA  | C11-C12-C13-C14 |
| 17  | A     | 839 | CLA  | C11-C12-C13-C14 |
| 17  | B     | 801 | CLA  | C11-C10-C8-C9   |
| 17  | B     | 812 | CLA  | C6-C7-C8-C9     |
| 17  | B     | 821 | CLA  | C11-C10-C8-C9   |
| 17  | B     | 827 | CLA  | C11-C12-C13-C14 |
| 17  | B     | 835 | CLA  | C14-C13-C15-C16 |
| 17  | B     | 836 | CLA  | C11-C10-C8-C9   |
| 17  | B     | 841 | CLA  | C6-C7-C8-C9     |
| 17  | B     | 842 | CLA  | C11-C10-C8-C9   |
| 17  | J     | 101 | CLA  | C11-C12-C13-C14 |
| 17  | L     | 202 | CLA  | C11-C10-C8-C9   |
| 17  | 3     | 203 | CLA  | C6-C7-C8-C9     |
| 17  | 3     | 203 | CLA  | C11-C10-C8-C9   |
| 17  | 5     | 613 | CLA  | CBA-CGA-O2A-C1  |
| 17  | B     | 838 | CLA  | C10-C11-C12-C13 |
| 17  | A     | 806 | CLA  | C2A-CAA-CBA-CGA |
| 17  | A     | 810 | CLA  | O1A-CGA-O2A-C1  |
| 20  | B     | 849 | BCR  | C37-C22-C23-C24 |
| 20  | L     | 201 | BCR  | C37-C22-C23-C24 |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 20  | O     | 202 | BCR  | C7-C8-C9-C34    |
| 25  | 3     | 216 | ZEX  | C11-C12-C13-C20 |
| 25  | 4     | 617 | ZEX  | C27-C28-C29-C39 |
| 17  | A     | 832 | CLA  | C15-C16-C17-C18 |
| 25  | 1     | 615 | ZEX  | C7-C8-C9-C10    |
| 25  | 1     | 616 | ZEX  | C7-C8-C9-C10    |
| 25  | 1     | 617 | ZEX  | C27-C28-C29-C30 |
| 25  | 2     | 617 | ZEX  | C31-C32-C33-C34 |
| 25  | 3     | 214 | ZEX  | C7-C8-C9-C10    |
| 25  | 4     | 612 | ZEX  | C11-C12-C13-C14 |
| 25  | 4     | 612 | ZEX  | C27-C28-C29-C30 |
| 25  | 4     | 616 | ZEX  | C27-C28-C29-C30 |
| 25  | 5     | 614 | ZEX  | C31-C32-C33-C34 |
| 17  | 4     | 601 | CLA  | O1D-CGD-O2D-CED |
| 17  | B     | 831 | CLA  | C10-C11-C12-C13 |
| 17  | 3     | 203 | CLA  | C15-C16-C17-C18 |
| 17  | A     | 811 | CLA  | CBA-CGA-O2A-C1  |
| 17  | A     | 831 | CLA  | C13-C15-C16-C17 |
| 17  | A     | 804 | CLA  | O1D-CGD-O2D-CED |
| 17  | A     | 832 | CLA  | C4C-C3C-CAC-CBC |
| 23  | B     | 851 | DGD  | C4B-C5B-C6B-C7B |
| 17  | L     | 203 | CLA  | CBA-CGA-O2A-C1  |
| 17  | B     | 830 | CLA  | C13-C15-C16-C17 |
| 17  | B     | 811 | CLA  | C4-C3-C5-C6     |
| 17  | B     | 827 | CLA  | C4-C3-C5-C6     |
| 17  | A     | 826 | CLA  | C2-C3-C5-C6     |
| 17  | F     | 301 | CLA  | C2-C3-C5-C6     |
| 17  | B     | 832 | CLA  | C13-C15-C16-C17 |
| 17  | B     | 835 | CLA  | C3-C5-C6-C7     |
| 17  | A     | 816 | CLA  | CBA-CGA-O2A-C1  |
| 17  | B     | 812 | CLA  | CBA-CGA-O2A-C1  |
| 17  | A     | 812 | CLA  | C3A-C2A-CAA-CBA |
| 17  | A     | 821 | CLA  | C3A-C2A-CAA-CBA |
| 17  | A     | 834 | CLA  | C3A-C2A-CAA-CBA |
| 17  | 1     | 612 | CLA  | C3A-C2A-CAA-CBA |
| 17  | 4     | 601 | CLA  | C3A-C2A-CAA-CBA |
| 17  | 4     | 602 | CLA  | C3A-C2A-CAA-CBA |
| 20  | A     | 843 | BCR  | C9-C10-C11-C12  |
| 20  | I     | 101 | BCR  | C13-C14-C15-C16 |
| 20  | I     | 101 | BCR  | C15-C16-C17-C18 |
| 25  | 2     | 615 | ZEX  | C29-C30-C31-C32 |
| 25  | 3     | 218 | ZEX  | C29-C30-C31-C32 |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 17  | A     | 811 | CLA  | C13-C15-C16-C17 |
| 17  | B     | 838 | CLA  | CBA-CGA-O2A-C1  |
| 17  | B     | 839 | CLA  | O1A-CGA-O2A-C1  |
| 23  | B     | 851 | DGD  | C2B-C3B-C4B-C5B |
| 17  | B     | 824 | CLA  | CAA-CBA-CGA-O2A |
| 17  | A     | 836 | CLA  | C3-C5-C6-C7     |
| 17  | B     | 827 | CLA  | C2-C3-C5-C6     |
| 17  | 1     | 602 | CLA  | C11-C12-C13-C14 |
| 17  | 2     | 605 | CLA  | C2A-CAA-CBA-CGA |
| 17  | B     | 832 | CLA  | C10-C11-C12-C13 |
| 17  | 1     | 602 | CLA  | CBA-CGA-O2A-C1  |
| 17  | B     | 830 | CLA  | O1A-CGA-O2A-C1  |
| 17  | 3     | 213 | CLA  | O1A-CGA-O2A-C1  |
| 17  | L     | 203 | CLA  | O1D-CGD-O2D-CED |
| 17  | A     | 804 | CLA  | C8-C10-C11-C12  |
| 17  | A     | 838 | CLA  | O1D-CGD-O2D-CED |
| 23  | B     | 851 | DGD  | O2G-C2G-C3G-O3G |
| 17  | A     | 817 | CLA  | C8-C10-C11-C12  |
| 16  | A     | 801 | CL0  | C16-C17-C18-C19 |
| 17  | A     | 809 | CLA  | C13-C15-C16-C17 |
| 17  | A     | 811 | CLA  | C15-C16-C17-C18 |
| 17  | B     | 822 | CLA  | C10-C11-C12-C13 |
| 17  | B     | 803 | CLA  | C3-C5-C6-C7     |
| 17  | A     | 815 | CLA  | C2-C1-O2A-CGA   |
| 17  | 4     | 602 | CLA  | C2-C1-O2A-CGA   |
| 17  | B     | 811 | CLA  | C2-C3-C5-C6     |
| 17  | 5     | 613 | CLA  | O1A-CGA-O2A-C1  |
| 17  | A     | 804 | CLA  | C11-C10-C8-C9   |
| 17  | A     | 805 | CLA  | C6-C7-C8-C9     |
| 17  | A     | 817 | CLA  | C6-C7-C8-C9     |
| 17  | A     | 817 | CLA  | C14-C13-C15-C16 |
| 17  | A     | 823 | CLA  | C11-C12-C13-C14 |
| 17  | A     | 827 | CLA  | C11-C12-C13-C14 |
| 17  | B     | 803 | CLA  | C11-C12-C13-C14 |
| 17  | B     | 809 | CLA  | C6-C7-C8-C9     |
| 17  | B     | 809 | CLA  | C14-C13-C15-C16 |
| 17  | B     | 822 | CLA  | C14-C13-C15-C16 |
| 17  | B     | 830 | CLA  | C11-C12-C13-C14 |
| 17  | A     | 827 | CLA  | C5-C6-C7-C8     |
| 17  | B     | 801 | CLA  | C8-C10-C11-C12  |
| 17  | A     | 835 | CLA  | C4-C3-C5-C6     |
| 25  | 1     | 616 | ZEX  | C21-C26-C27-C28 |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 19  | A     | 841 | LHG  | C9-C10-C11-C12  |
| 17  | 3     | 202 | CLA  | C2A-CAA-CBA-CGA |
| 17  | 3     | 208 | CLA  | C2A-CAA-CBA-CGA |
| 17  | A     | 831 | CLA  | C16-C17-C18-C19 |
| 20  | A     | 844 | BCR  | C23-C24-C25-C26 |
| 20  | B     | 805 | BCR  | C1-C6-C7-C8     |
| 20  | B     | 805 | BCR  | C5-C6-C7-C8     |
| 20  | B     | 845 | BCR  | C23-C24-C25-C26 |
| 20  | B     | 846 | BCR  | C1-C6-C7-C8     |
| 20  | B     | 846 | BCR  | C23-C24-C25-C26 |
| 20  | B     | 847 | BCR  | C1-C6-C7-C8     |
| 20  | B     | 847 | BCR  | C5-C6-C7-C8     |
| 20  | B     | 850 | BCR  | C5-C6-C7-C8     |
| 20  | B     | 850 | BCR  | C23-C24-C25-C30 |
| 20  | F     | 304 | BCR  | C5-C6-C7-C8     |
| 20  | I     | 101 | BCR  | C5-C6-C7-C8     |
| 20  | I     | 101 | BCR  | C23-C24-C25-C26 |
| 20  | I     | 101 | BCR  | C23-C24-C25-C30 |
| 20  | J     | 105 | BCR  | C23-C24-C25-C30 |
| 20  | K     | 101 | BCR  | C23-C24-C25-C26 |
| 20  | K     | 104 | BCR  | C1-C6-C7-C8     |
| 20  | K     | 104 | BCR  | C5-C6-C7-C8     |
| 20  | K     | 104 | BCR  | C23-C24-C25-C30 |
| 20  | L     | 206 | BCR  | C23-C24-C25-C26 |
| 20  | L     | 206 | BCR  | C23-C24-C25-C30 |
| 25  | 3     | 217 | ZEX  | C5-C6-C7-C8     |
| 25  | 5     | 616 | ZEX  | C5-C6-C7-C8     |
| 17  | A     | 824 | CLA  | C2C-C3C-CAC-CBC |
| 17  | A     | 813 | CLA  | C1A-C2A-CAA-CBA |
| 17  | B     | 818 | CLA  | C1A-C2A-CAA-CBA |
| 17  | K     | 103 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 2     | 610 | CLA  | C1A-C2A-CAA-CBA |
| 20  | L     | 205 | BCR  | C17-C18-C19-C20 |
| 25  | 4     | 613 | ZEX  | C31-C32-C33-C34 |
| 25  | 5     | 616 | ZEX  | C27-C28-C29-C30 |
| 17  | A     | 831 | CLA  | C10-C11-C12-C13 |
| 19  | A     | 841 | LHG  | C28-C29-C30-C31 |
| 20  | A     | 844 | BCR  | C14-C15-C16-C17 |
| 18  | B     | 844 | PQN  | C26-C27-C28-C30 |
| 17  | A     | 817 | CLA  | O1D-CGD-O2D-CED |
| 17  | A     | 804 | CLA  | C11-C10-C8-C7   |
| 17  | A     | 805 | CLA  | C6-C7-C8-C10    |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 17  | A     | 809 | CLA  | C11-C12-C13-C15 |
| 17  | A     | 817 | CLA  | C12-C13-C15-C16 |
| 17  | A     | 827 | CLA  | C11-C12-C13-C15 |
| 17  | A     | 832 | CLA  | C6-C7-C8-C10    |
| 17  | A     | 833 | CLA  | C11-C12-C13-C15 |
| 17  | A     | 839 | CLA  | C11-C12-C13-C15 |
| 17  | B     | 801 | CLA  | C11-C10-C8-C7   |
| 17  | B     | 803 | CLA  | C11-C12-C13-C15 |
| 17  | B     | 808 | CLA  | C6-C7-C8-C10    |
| 17  | B     | 809 | CLA  | C6-C7-C8-C10    |
| 17  | B     | 809 | CLA  | C12-C13-C15-C16 |
| 17  | B     | 811 | CLA  | C12-C13-C15-C16 |
| 17  | B     | 821 | CLA  | C6-C7-C8-C10    |
| 17  | B     | 821 | CLA  | C11-C10-C8-C7   |
| 17  | B     | 822 | CLA  | C12-C13-C15-C16 |
| 17  | B     | 828 | CLA  | C12-C13-C15-C16 |
| 17  | B     | 829 | CLA  | C6-C7-C8-C10    |
| 17  | B     | 829 | CLA  | C11-C12-C13-C15 |
| 17  | B     | 830 | CLA  | C11-C10-C8-C7   |
| 17  | B     | 830 | CLA  | C11-C12-C13-C15 |
| 17  | B     | 830 | CLA  | C12-C13-C15-C16 |
| 17  | B     | 835 | CLA  | C12-C13-C15-C16 |
| 17  | B     | 839 | CLA  | C12-C13-C15-C16 |
| 17  | F     | 301 | CLA  | C6-C7-C8-C10    |
| 17  | L     | 202 | CLA  | C11-C10-C8-C7   |
| 17  | 5     | 603 | CLA  | C11-C12-C13-C15 |
| 20  | B     | 845 | BCR  | C9-C10-C11-C12  |
| 20  | B     | 849 | BCR  | C9-C10-C11-C12  |
| 20  | B     | 850 | BCR  | C19-C20-C21-C22 |
| 20  | L     | 205 | BCR  | C19-C20-C21-C22 |
| 20  | L     | 206 | BCR  | C19-C20-C21-C22 |
| 25  | 3     | 201 | ZEX  | C33-C34-C35-C15 |
| 25  | 4     | 612 | ZEX  | C13-C14-C15-C35 |
| 18  | B     | 844 | PQN  | C15-C16-C17-C18 |
| 17  | B     | 843 | CLA  | CAA-CBA-CGA-O2A |
| 17  | A     | 811 | CLA  | O1A-CGA-O2A-C1  |
| 17  | A     | 829 | CLA  | C2A-CAA-CBA-CGA |
| 20  | B     | 846 | BCR  | C11-C10-C9-C34  |
| 20  | B     | 850 | BCR  | C20-C21-C22-C37 |
| 20  | I     | 101 | BCR  | C20-C21-C22-C37 |
| 20  | J     | 105 | BCR  | C20-C21-C22-C37 |
| 17  | A     | 831 | CLA  | C16-C17-C18-C20 |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 18  | A     | 840 | PQN  | C26-C27-C28-C29 |
| 17  | B     | 829 | CLA  | CBA-CGA-O2A-C1  |
| 17  | 4     | 601 | CLA  | O2A-C1-C2-C3    |
| 17  | A     | 811 | CLA  | C8-C10-C11-C12  |
| 17  | A     | 838 | CLA  | C8-C10-C11-C12  |
| 17  | A     | 805 | CLA  | CAD-CBD-CGD-O2D |
| 17  | A     | 815 | CLA  | CAD-CBD-CGD-O2D |
| 17  | A     | 824 | CLA  | CAD-CBD-CGD-O2D |
| 17  | A     | 830 | CLA  | CAD-CBD-CGD-O2D |
| 17  | A     | 835 | CLA  | CAD-CBD-CGD-O2D |
| 17  | B     | 812 | CLA  | CAD-CBD-CGD-O2D |
| 17  | B     | 815 | CLA  | CAD-CBD-CGD-O2D |
| 17  | B     | 834 | CLA  | CAD-CBD-CGD-O2D |
| 17  | J     | 103 | CLA  | CAD-CBD-CGD-O2D |
| 17  | O     | 203 | CLA  | CAD-CBD-CGD-O2D |
| 17  | 1     | 602 | CLA  | CAD-CBD-CGD-O2D |
| 17  | 2     | 601 | CLA  | CAD-CBD-CGD-O2D |
| 17  | 2     | 606 | CLA  | CAD-CBD-CGD-O2D |
| 17  | 2     | 607 | CLA  | CAD-CBD-CGD-O2D |
| 17  | 3     | 207 | CLA  | CAD-CBD-CGD-O2D |
| 17  | 3     | 208 | CLA  | CAD-CBD-CGD-O2D |
| 17  | 4     | 610 | CLA  | CAD-CBD-CGD-O2D |
| 17  | 5     | 602 | CLA  | CAD-CBD-CGD-O2D |
| 17  | 5     | 610 | CLA  | CAD-CBD-CGD-O2D |
| 17  | 5     | 612 | CLA  | CAD-CBD-CGD-O2D |
| 17  | A     | 838 | CLA  | C3-C5-C6-C7     |
| 17  | B     | 802 | CLA  | C5-C6-C7-C8     |
| 20  | B     | 848 | BCR  | C22-C23-C24-C25 |
| 20  | B     | 850 | BCR  | C6-C7-C8-C9     |
| 17  | A     | 821 | CLA  | CBA-CGA-O2A-C1  |
| 19  | A     | 841 | LHG  | C4-C5-C6-O8     |
| 17  | B     | 829 | CLA  | O1A-CGA-O2A-C1  |
| 17  | A     | 804 | CLA  | CAA-CBA-CGA-O2A |
| 20  | L     | 205 | BCR  | C14-C15-C16-C17 |
| 17  | A     | 805 | CLA  | CHA-CBD-CGD-O2D |
| 17  | A     | 806 | CLA  | CHA-CBD-CGD-O1D |
| 17  | A     | 817 | CLA  | CHA-CBD-CGD-O1D |
| 17  | A     | 817 | CLA  | CHA-CBD-CGD-O2D |
| 17  | A     | 820 | CLA  | CHA-CBD-CGD-O1D |
| 17  | A     | 820 | CLA  | CHA-CBD-CGD-O2D |
| 17  | A     | 827 | CLA  | CHA-CBD-CGD-O1D |
| 17  | A     | 827 | CLA  | CHA-CBD-CGD-O2D |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 17  | A     | 828 | CLA  | CHA-CBD-CGD-O1D |
| 17  | A     | 828 | CLA  | CHA-CBD-CGD-O2D |
| 17  | A     | 832 | CLA  | CHA-CBD-CGD-O1D |
| 17  | A     | 837 | CLA  | CHA-CBD-CGD-O1D |
| 17  | A     | 837 | CLA  | CHA-CBD-CGD-O2D |
| 17  | B     | 813 | CLA  | CHA-CBD-CGD-O1D |
| 17  | B     | 813 | CLA  | CHA-CBD-CGD-O2D |
| 17  | B     | 814 | CLA  | CHA-CBD-CGD-O1D |
| 17  | B     | 819 | CLA  | CHA-CBD-CGD-O1D |
| 17  | B     | 819 | CLA  | CHA-CBD-CGD-O2D |
| 17  | B     | 833 | CLA  | CHA-CBD-CGD-O1D |
| 17  | B     | 842 | CLA  | CHA-CBD-CGD-O2D |
| 17  | J     | 102 | CLA  | CHA-CBD-CGD-O1D |
| 17  | L     | 203 | CLA  | CHA-CBD-CGD-O2D |
| 17  | 1     | 607 | CLA  | CHA-CBD-CGD-O1D |
| 17  | 1     | 607 | CLA  | CHA-CBD-CGD-O2D |
| 17  | 4     | 603 | CLA  | CHA-CBD-CGD-O1D |
| 17  | 4     | 609 | CLA  | CHA-CBD-CGD-O1D |
| 17  | 4     | 609 | CLA  | CHA-CBD-CGD-O2D |
| 17  | 5     | 605 | CLA  | CHA-CBD-CGD-O1D |
| 17  | 5     | 605 | CLA  | CHA-CBD-CGD-O2D |
| 17  | 5     | 608 | CLA  | CHA-CBD-CGD-O1D |
| 17  | 5     | 608 | CLA  | CHA-CBD-CGD-O2D |
| 17  | 3     | 203 | CLA  | C3-C5-C6-C7     |
| 17  | A     | 802 | CLA  | CBD-CGD-O2D-CED |
| 17  | A     | 816 | CLA  | O1A-CGA-O2A-C1  |
| 17  | L     | 203 | CLA  | O1A-CGA-O2A-C1  |
| 20  | A     | 845 | BCR  | C20-C21-C22-C23 |
| 20  | B     | 805 | BCR  | C20-C21-C22-C23 |
| 25  | 5     | 614 | ZEX  | C11-C10-C9-C8   |
| 17  | A     | 804 | CLA  | C13-C15-C16-C17 |
| 17  | B     | 812 | CLA  | O1A-CGA-O2A-C1  |
| 17  | B     | 838 | CLA  | O1A-CGA-O2A-C1  |
| 17  | B     | 822 | CLA  | C16-C17-C18-C19 |
| 19  | A     | 842 | LHG  | C8-C7-O7-C5     |
| 17  | A     | 811 | CLA  | C11-C12-C13-C14 |
| 17  | B     | 829 | CLA  | C11-C12-C13-C14 |
| 17  | B     | 830 | CLA  | C14-C13-C15-C16 |
| 17  | A     | 821 | CLA  | O1A-CGA-O2A-C1  |
| 17  | B     | 803 | CLA  | C8-C10-C11-C12  |
| 24  | J     | 106 | 3XQ  | C9-C10-C11-C12  |
| 17  | 4     | 602 | CLA  | C2A-CAA-CBA-CGA |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 20  | J     | 104 | BCR  | C37-C22-C23-C24 |
| 25  | 1     | 613 | ZEX  | C11-C12-C13-C20 |
| 25  | 2     | 615 | ZEX  | C7-C8-C9-C19    |
| 25  | 3     | 217 | ZEX  | C7-C8-C9-C19    |
| 25  | 4     | 617 | ZEX  | C7-C8-C9-C19    |
| 20  | A     | 845 | BCR  | C21-C22-C23-C24 |
| 20  | B     | 850 | BCR  | C21-C22-C23-C24 |
| 20  | I     | 101 | BCR  | C7-C8-C9-C10    |
| 25  | 2     | 614 | ZEX  | C7-C8-C9-C10    |
| 25  | 3     | 214 | ZEX  | C27-C28-C29-C30 |
| 25  | 5     | 614 | ZEX  | C7-C8-C9-C10    |
| 17  | A     | 823 | CLA  | C1A-C2A-CAA-CBA |
| 17  | B     | 838 | CLA  | C1A-C2A-CAA-CBA |
| 17  | A     | 839 | CLA  | C16-C17-C18-C20 |
| 25  | 5     | 617 | ZEX  | C9-C10-C11-C12  |
| 17  | A     | 839 | CLA  | C10-C11-C12-C13 |
| 23  | B     | 851 | DGD  | CEB-CFB-CGB-CHB |
| 19  | A     | 841 | LHG  | C3-O3-P-O5      |
| 19  | A     | 842 | LHG  | C4-O6-P-O5      |
| 17  | B     | 827 | CLA  | C13-C15-C16-C17 |
| 18  | A     | 840 | PQN  | C20-C21-C22-C23 |
| 24  | J     | 106 | 3XQ  | C3-C4-C5-C6     |
| 17  | 3     | 209 | CLA  | C2A-CAA-CBA-CGA |
| 17  | A     | 823 | CLA  | C3-C5-C6-C7     |
| 17  | A     | 821 | CLA  | C2-C3-C5-C6     |
| 17  | A     | 836 | CLA  | CAD-CBD-CGD-O1D |
| 17  | B     | 804 | CLA  | CAD-CBD-CGD-O1D |
| 17  | B     | 829 | CLA  | CAD-CBD-CGD-O1D |
| 17  | 4     | 603 | CLA  | CAD-CBD-CGD-O1D |
| 23  | B     | 851 | DGD  | C7B-C8B-C9B-CAB |
| 17  | 1     | 602 | CLA  | O1A-CGA-O2A-C1  |
| 17  | 1     | 608 | CLA  | C5-C6-C7-C8     |
| 17  | B     | 843 | CLA  | CBA-CGA-O2A-C1  |
| 17  | B     | 811 | CLA  | C13-C15-C16-C17 |
| 17  | B     | 806 | CLA  | C4-C3-C5-C6     |
| 17  | B     | 831 | CLA  | C4-C3-C5-C6     |
| 17  | A     | 811 | CLA  | C11-C12-C13-C15 |
| 17  | A     | 828 | CLA  | C11-C12-C13-C15 |
| 17  | B     | 804 | CLA  | C12-C13-C15-C16 |
| 17  | B     | 836 | CLA  | C12-C13-C15-C16 |
| 17  | B     | 841 | CLA  | C11-C10-C8-C7   |
| 17  | 3     | 203 | CLA  | C12-C13-C15-C16 |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 17  | 5     | 603 | CLA  | C11-C10-C8-C7   |
| 17  | 5     | 603 | CLA  | C12-C13-C15-C16 |
| 18  | A     | 840 | PQN  | C21-C22-C23-C25 |
| 25  | 4     | 617 | ZEX  | C29-C30-C31-C32 |
| 17  | A     | 831 | CLA  | C2A-CAA-CBA-CGA |
| 17  | 2     | 602 | CLA  | C2A-CAA-CBA-CGA |
| 17  | B     | 822 | CLA  | C16-C17-C18-C20 |
| 19  | A     | 841 | LHG  | O7-C5-C6-O8     |
| 23  | B     | 851 | DGD  | O1G-C1G-C2G-O2G |
| 24  | J     | 106 | 3XQ  | C10-C11-C12-C13 |
| 17  | B     | 812 | CLA  | CAA-CBA-CGA-O2A |
| 17  | A     | 836 | CLA  | C8-C10-C11-C12  |
| 17  | A     | 827 | CLA  | C10-C11-C12-C13 |
| 17  | B     | 810 | CLA  | C4-C3-C5-C6     |
| 17  | B     | 806 | CLA  | C2-C3-C5-C6     |
| 17  | B     | 843 | CLA  | C10-C11-C12-C13 |
| 17  | A     | 809 | CLA  | C11-C12-C13-C14 |
| 17  | B     | 806 | CLA  | C6-C7-C8-C9     |
| 17  | B     | 808 | CLA  | C6-C7-C8-C9     |
| 17  | B     | 839 | CLA  | C14-C13-C15-C16 |
| 17  | 3     | 203 | CLA  | C14-C13-C15-C16 |
| 17  | 5     | 603 | CLA  | C11-C12-C13-C14 |
| 18  | A     | 840 | PQN  | C21-C22-C23-C24 |
| 17  | A     | 827 | CLA  | O1A-CGA-O2A-C1  |
| 17  | A     | 808 | CLA  | C3-C5-C6-C7     |
| 17  | B     | 843 | CLA  | O1A-CGA-O2A-C1  |
| 17  | 3     | 213 | CLA  | C2A-CAA-CBA-CGA |
| 24  | J     | 106 | 3XQ  | O23-C22-C24-O25 |
| 25  | 2     | 616 | ZEX  | C10-C11-C12-C13 |
| 25  | 3     | 216 | ZEX  | C13-C14-C15-C35 |
| 17  | B     | 816 | CLA  | C8-C10-C11-C12  |
| 17  | B     | 836 | CLA  | C8-C10-C11-C12  |
| 17  | A     | 820 | CLA  | C1-C2-C3-C4     |
| 17  | B     | 830 | CLA  | CAA-CBA-CGA-O2A |
| 23  | B     | 851 | DGD  | CAB-CBB-CCB-CDB |
| 17  | B     | 803 | CLA  | C2A-CAA-CBA-CGA |
| 17  | A     | 838 | CLA  | C2-C1-O2A-CGA   |
| 17  | B     | 801 | CLA  | C2-C1-O2A-CGA   |
| 17  | B     | 814 | CLA  | C2-C1-O2A-CGA   |
| 17  | A     | 839 | CLA  | C16-C17-C18-C19 |
| 20  | L     | 206 | BCR  | C14-C15-C16-C17 |
| 17  | A     | 827 | CLA  | CBA-CGA-O2A-C1  |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 20  | A     | 844 | BCR  | C23-C24-C25-C30 |
| 20  | B     | 845 | BCR  | C23-C24-C25-C30 |
| 20  | B     | 846 | BCR  | C23-C24-C25-C30 |
| 20  | I     | 101 | BCR  | C1-C6-C7-C8     |
| 25  | 2     | 617 | ZEX  | C5-C6-C7-C8     |
| 25  | 4     | 615 | ZEX  | C1-C6-C7-C8     |
| 25  | 5     | 615 | ZEX  | C1-C6-C7-C8     |
| 17  | 2     | 602 | CLA  | C16-C17-C18-C20 |
| 20  | K     | 101 | BCR  | C20-C21-C22-C23 |
| 17  | O     | 201 | CLA  | CBA-CGA-O2A-C1  |
| 19  | A     | 842 | LHG  | C3-O3-P-O6      |
| 19  | A     | 842 | LHG  | C4-O6-P-O3      |
| 17  | A     | 833 | CLA  | C11-C10-C8-C7   |
| 17  | B     | 831 | CLA  | C2-C3-C5-C6     |
| 17  | 5     | 603 | CLA  | C6-C7-C8-C10    |
| 17  | O     | 201 | CLA  | O1A-CGA-O2A-C1  |
| 17  | A     | 828 | CLA  | C11-C12-C13-C14 |
| 17  | B     | 828 | CLA  | C14-C13-C15-C16 |
| 17  | B     | 836 | CLA  | C14-C13-C15-C16 |
| 20  | L     | 201 | BCR  | C13-C14-C15-C16 |
| 25  | 1     | 615 | ZEX  | C9-C10-C11-C12  |
| 25  | 5     | 615 | ZEX  | C9-C10-C11-C12  |
| 17  | B     | 821 | CLA  | C11-C12-C13-C15 |
| 17  | A     | 804 | CLA  | C5-C6-C7-C8     |
| 17  | B     | 801 | CLA  | C16-C17-C18-C19 |
| 19  | A     | 842 | LHG  | C2-C3-O3-P      |
| 17  | 4     | 603 | CLA  | CAA-CBA-CGA-O2A |
| 17  | A     | 848 | CLA  | C15-C16-C17-C18 |
| 17  | 3     | 203 | CLA  | C5-C6-C7-C8     |
| 17  | B     | 822 | CLA  | CBA-CGA-O2A-C1  |
| 20  | A     | 844 | BCR  | C15-C16-C17-C18 |
| 20  | B     | 845 | BCR  | C15-C16-C17-C18 |
| 20  | B     | 845 | BCR  | C19-C20-C21-C22 |
| 20  | B     | 848 | BCR  | C19-C20-C21-C22 |
| 25  | 3     | 218 | ZEX  | C33-C34-C35-C15 |
| 25  | 4     | 613 | ZEX  | C33-C34-C35-C15 |
| 25  | 5     | 616 | ZEX  | C29-C30-C31-C32 |
| 17  | A     | 819 | CLA  | C3-C5-C6-C7     |
| 17  | 4     | 602 | CLA  | C3-C5-C6-C7     |
| 17  | B     | 801 | CLA  | C13-C15-C16-C17 |
| 17  | B     | 809 | CLA  | C10-C11-C12-C13 |
| 17  | 2     | 601 | CLA  | CAA-CBA-CGA-O2A |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 17  | B     | 806 | CLA  | C5-C6-C7-C8     |
| 17  | B     | 838 | CLA  | C4C-C3C-CAC-CBC |
| 26  | 3     | 219 | 1DO  | C7-C8-C9-C10    |
| 17  | B     | 803 | CLA  | C2-C1-O2A-CGA   |
| 17  | B     | 808 | CLA  | C2-C1-O2A-CGA   |
| 17  | B     | 820 | CLA  | C10-C11-C12-C13 |
| 17  | B     | 810 | CLA  | C16-C17-C18-C19 |
| 18  | B     | 844 | PQN  | C26-C27-C28-C29 |
| 17  | B     | 810 | CLA  | C2A-CAA-CBA-CGA |
| 17  | B     | 816 | CLA  | C2A-CAA-CBA-CGA |
| 17  | A     | 827 | CLA  | C3A-C2A-CAA-CBA |
| 17  | B     | 803 | CLA  | C3A-C2A-CAA-CBA |
| 17  | 1     | 604 | CLA  | CAA-CBA-CGA-O2A |
| 17  | 1     | 607 | CLA  | CAA-CBA-CGA-O2A |
| 17  | B     | 843 | CLA  | C4-C3-C5-C6     |
| 17  | L     | 203 | CLA  | C4-C3-C5-C6     |
| 17  | B     | 802 | CLA  | C6-C7-C8-C9     |
| 17  | B     | 843 | CLA  | C11-C12-C13-C14 |
| 17  | 4     | 602 | CLA  | C11-C10-C8-C9   |
| 17  | 1     | 610 | CLA  | CAA-CBA-CGA-O2A |
| 17  | 4     | 611 | CLA  | CAA-CBA-CGA-O1A |
| 20  | A     | 846 | BCR  | C16-C17-C18-C36 |
| 20  | B     | 805 | BCR  | C35-C13-C14-C15 |
| 20  | K     | 104 | BCR  | C11-C10-C9-C34  |
| 17  | A     | 848 | CLA  | C2A-CAA-CBA-CGA |
| 17  | 2     | 602 | CLA  | C16-C17-C18-C19 |
| 20  | B     | 847 | BCR  | C21-C22-C23-C24 |
| 17  | 1     | 604 | CLA  | CAA-CBA-CGA-O1A |
| 17  | 1     | 610 | CLA  | CAA-CBA-CGA-O1A |
| 17  | B     | 801 | CLA  | C4-C3-C5-C6     |
| 17  | A     | 812 | CLA  | C1A-C2A-CAA-CBA |
| 17  | B     | 830 | CLA  | C1A-C2A-CAA-CBA |
| 17  | B     | 832 | CLA  | C1A-C2A-CAA-CBA |
| 17  | B     | 843 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 1     | 612 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 2     | 605 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 2     | 611 | CLA  | C1A-C2A-CAA-CBA |
| 17  | 2     | 613 | CLA  | C1A-C2A-CAA-CBA |
| 17  | A     | 809 | CLA  | C11-C10-C8-C7   |
| 17  | A     | 838 | CLA  | C6-C7-C8-C10    |
| 17  | B     | 812 | CLA  | C11-C12-C13-C15 |
| 17  | B     | 835 | CLA  | C11-C10-C8-C7   |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 17  | 4     | 602 | CLA  | C11-C10-C8-C7   |
| 17  | B     | 825 | CLA  | C2A-CAA-CBA-CGA |
| 17  | B     | 807 | CLA  | CAA-CBA-CGA-O2A |
| 17  | 3     | 204 | CLA  | CAA-CBA-CGA-O1A |
| 25  | 3     | 218 | ZEX  | C9-C10-C11-C12  |
| 17  | A     | 802 | CLA  | O1D-CGD-O2D-CED |
| 17  | 1     | 601 | CLA  | O2A-C1-C2-C3    |
| 17  | B     | 837 | CLA  | CAA-CBA-CGA-O2A |
| 17  | 1     | 607 | CLA  | CAA-CBA-CGA-O1A |
| 17  | A     | 823 | CLA  | C2A-CAA-CBA-CGA |
| 17  | B     | 843 | CLA  | C2A-CAA-CBA-CGA |
| 17  | 2     | 612 | CLA  | C2A-CAA-CBA-CGA |
| 17  | A     | 816 | CLA  | C15-C16-C17-C18 |
| 17  | B     | 804 | CLA  | C5-C6-C7-C8     |
| 17  | B     | 841 | CLA  | C15-C16-C17-C18 |
| 17  | B     | 807 | CLA  | CAA-CBA-CGA-O1A |
| 17  | 5     | 601 | CLA  | CAA-CBA-CGA-O1A |
| 17  | A     | 838 | CLA  | C13-C15-C16-C17 |
| 17  | 3     | 205 | CLA  | CAA-CBA-CGA-O2A |
| 17  | 4     | 611 | CLA  | CAA-CBA-CGA-O2A |
| 17  | 2     | 602 | CLA  | C15-C16-C17-C18 |
| 17  | B     | 837 | CLA  | CAA-CBA-CGA-O1A |
| 17  | B     | 841 | CLA  | C13-C15-C16-C17 |
| 20  | A     | 846 | BCR  | C16-C17-C18-C19 |
| 20  | B     | 846 | BCR  | C11-C10-C9-C8   |
| 20  | B     | 847 | BCR  | C20-C21-C22-C23 |
| 20  | F     | 304 | BCR  | C12-C13-C14-C15 |
| 17  | 3     | 205 | CLA  | CAA-CBA-CGA-O1A |
| 20  | B     | 847 | BCR  | C13-C14-C15-C16 |
| 20  | J     | 104 | BCR  | C15-C16-C17-C18 |
| 25  | 2     | 614 | ZEX  | C13-C14-C15-C35 |
| 17  | A     | 834 | CLA  | CAA-CBA-CGA-O1A |
| 17  | 5     | 601 | CLA  | CAA-CBA-CGA-O2A |
| 23  | B     | 851 | DGD  | C9B-CAB-CBB-CCB |
| 17  | A     | 834 | CLA  | CAA-CBA-CGA-O2A |
| 17  | 4     | 603 | CLA  | CAA-CBA-CGA-O1A |
| 17  | J     | 101 | CLA  | C2-C1-O2A-CGA   |
| 17  | L     | 203 | CLA  | C2-C3-C5-C6     |
| 17  | A     | 832 | CLA  | C13-C15-C16-C17 |
| 17  | 2     | 601 | CLA  | CAA-CBA-CGA-O1A |
| 17  | 3     | 204 | CLA  | CAA-CBA-CGA-O2A |
| 17  | A     | 821 | CLA  | C4-C3-C5-C6     |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 25  | 3     | 215 | ZEX  | C21-C26-C27-C28 |
| 17  | B     | 829 | CLA  | C16-C17-C18-C19 |
| 17  | 2     | 603 | CLA  | CAA-CBA-CGA-O2A |
| 17  | B     | 806 | CLA  | CAA-CBA-CGA-O1A |
| 17  | B     | 822 | CLA  | O1A-CGA-O2A-C1  |
| 20  | A     | 846 | BCR  | C23-C24-C25-C26 |
| 20  | A     | 846 | BCR  | C23-C24-C25-C30 |
| 20  | B     | 848 | BCR  | C23-C24-C25-C30 |
| 20  | B     | 850 | BCR  | C1-C6-C7-C8     |
| 20  | F     | 304 | BCR  | C1-C6-C7-C8     |
| 20  | K     | 101 | BCR  | C23-C24-C25-C30 |
| 25  | 1     | 616 | ZEX  | C1-C6-C7-C8     |
| 25  | 3     | 216 | ZEX  | C5-C6-C7-C8     |
| 19  | A     | 841 | LHG  | C30-C31-C32-C33 |
| 17  | 5     | 605 | CLA  | CAA-CBA-CGA-O1A |
| 20  | A     | 845 | BCR  | C15-C16-C17-C18 |
| 20  | K     | 104 | BCR  | C13-C14-C15-C16 |
| 17  | B     | 809 | CLA  | C4-C3-C5-C6     |
| 17  | B     | 829 | CLA  | C16-C17-C18-C20 |
| 17  | B     | 810 | CLA  | C2-C3-C5-C6     |
| 17  | B     | 836 | CLA  | C2-C3-C5-C6     |
| 17  | 3     | 207 | CLA  | CAA-CBA-CGA-O2A |
| 17  | 4     | 608 | CLA  | CAA-CBA-CGA-O2A |
| 17  | A     | 848 | CLA  | C13-C15-C16-C17 |
| 17  | 4     | 604 | CLA  | CAA-CBA-CGA-O2A |
| 19  | A     | 841 | LHG  | O6-C4-C5-O7     |
| 17  | K     | 102 | CLA  | CAA-CBA-CGA-O2A |
| 17  | 5     | 604 | CLA  | CAA-CBA-CGA-O2A |
| 17  | 5     | 602 | CLA  | CAA-CBA-CGA-O2A |
| 16  | A     | 801 | CL0  | C11-C12-C13-C15 |
| 18  | A     | 840 | PQN  | C22-C23-C25-C26 |
| 17  | B     | 836 | CLA  | C15-C16-C17-C18 |
| 17  | A     | 832 | CLA  | C5-C6-C7-C8     |
| 17  | 4     | 608 | CLA  | CAA-CBA-CGA-O1A |
| 19  | A     | 841 | LHG  | O8-C23-C24-C25  |
| 17  | B     | 803 | CLA  | O1A-CGA-O2A-C1  |
| 17  | A     | 830 | CLA  | C2A-CAA-CBA-CGA |
| 17  | A     | 832 | CLA  | C2A-CAA-CBA-CGA |
| 17  | B     | 804 | CLA  | C15-C16-C17-C18 |
| 17  | 1     | 611 | CLA  | CAA-CBA-CGA-O1A |
| 17  | 1     | 611 | CLA  | CAA-CBA-CGA-O2A |
| 17  | B     | 803 | CLA  | CBA-CGA-O2A-C1  |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 20  | B     | 849 | BCR  | C11-C10-C9-C34  |
| 17  | 3     | 203 | CLA  | C4-C3-C5-C6     |
| 17  | 5     | 612 | CLA  | CAA-CBA-CGA-O2A |
| 17  | B     | 809 | CLA  | C2-C3-C5-C6     |
| 16  | A     | 801 | CL0  | C11-C12-C13-C14 |
| 17  | B     | 816 | CLA  | C11-C12-C13-C14 |
| 17  | B     | 835 | CLA  | C11-C10-C8-C9   |
| 17  | B     | 841 | CLA  | C11-C10-C8-C9   |
| 17  | 5     | 603 | CLA  | C11-C10-C8-C9   |
| 17  | 5     | 603 | CLA  | C14-C13-C15-C16 |
| 17  | 1     | 606 | CLA  | CAA-CBA-CGA-O2A |
| 17  | 5     | 610 | CLA  | CAA-CBA-CGA-O2A |
| 17  | B     | 830 | CLA  | C3A-C2A-CAA-CBA |
| 17  | B     | 838 | CLA  | C3A-C2A-CAA-CBA |
| 17  | O     | 204 | CLA  | C3A-C2A-CAA-CBA |
| 17  | 1     | 604 | CLA  | C3A-C2A-CAA-CBA |
| 17  | 2     | 605 | CLA  | C3A-C2A-CAA-CBA |
| 17  | 2     | 613 | CLA  | C3A-C2A-CAA-CBA |
| 17  | K     | 102 | CLA  | CAA-CBA-CGA-O1A |
| 17  | A     | 810 | CLA  | CAD-CBD-CGD-O2D |
| 17  | A     | 811 | CLA  | CAD-CBD-CGD-O2D |
| 17  | A     | 819 | CLA  | CAD-CBD-CGD-O2D |
| 17  | A     | 839 | CLA  | CAD-CBD-CGD-O2D |
| 17  | B     | 817 | CLA  | CAD-CBD-CGD-O2D |
| 17  | B     | 818 | CLA  | CAD-CBD-CGD-O2D |
| 17  | B     | 820 | CLA  | CAD-CBD-CGD-O2D |
| 17  | B     | 836 | CLA  | CAD-CBD-CGD-O2D |
| 17  | L     | 202 | CLA  | CAD-CBD-CGD-O2D |
| 17  | O     | 205 | CLA  | CAD-CBD-CGD-O2D |
| 17  | 1     | 601 | CLA  | CAD-CBD-CGD-O2D |
| 17  | 1     | 604 | CLA  | CAD-CBD-CGD-O2D |
| 17  | 1     | 606 | CLA  | CAD-CBD-CGD-O2D |
| 17  | 2     | 605 | CLA  | CAD-CBD-CGD-O2D |
| 17  | 2     | 608 | CLA  | CAD-CBD-CGD-O2D |
| 17  | 2     | 613 | CLA  | CAD-CBD-CGD-O2D |
| 17  | 4     | 602 | CLA  | CAD-CBD-CGD-O2D |
| 17  | 4     | 606 | CLA  | CAD-CBD-CGD-O2D |
| 17  | 4     | 611 | CLA  | CAD-CBD-CGD-O2D |
| 17  | 5     | 609 | CLA  | CAD-CBD-CGD-O2D |
| 17  | L     | 203 | CLA  | C2-C1-O2A-CGA   |
| 17  | 1     | 612 | CLA  | CAA-CBA-CGA-O2A |
| 17  | 5     | 612 | CLA  | CAA-CBA-CGA-O1A |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 17  | A     | 810 | CLA  | CAA-CBA-CGA-O2A |
| 17  | A     | 823 | CLA  | CAA-CBA-CGA-O2A |
| 17  | 2     | 603 | CLA  | CAA-CBA-CGA-O1A |
| 17  | 3     | 207 | CLA  | CAA-CBA-CGA-O1A |
| 17  | 5     | 602 | CLA  | CAA-CBA-CGA-O1A |
| 17  | 5     | 604 | CLA  | CAA-CBA-CGA-O1A |
| 17  | 5     | 610 | CLA  | CAA-CBA-CGA-O1A |
| 17  | A     | 831 | CLA  | CAA-CBA-CGA-O2A |
| 17  | 1     | 608 | CLA  | CAA-CBA-CGA-O2A |
| 17  | 5     | 613 | CLA  | CAA-CBA-CGA-O2A |
| 19  | A     | 842 | LHG  | C26-C27-C28-C29 |
| 20  | A     | 846 | BCR  | C11-C12-C13-C14 |
| 20  | B     | 848 | BCR  | C7-C8-C9-C10    |
| 25  | 3     | 215 | ZEX  | C31-C32-C33-C34 |
| 25  | 3     | 215 | ZEX  | C27-C28-C29-C30 |
| 17  | 3     | 208 | CLA  | CAA-CBA-CGA-O1A |
| 17  | 3     | 208 | CLA  | CAA-CBA-CGA-O2A |
| 17  | B     | 824 | CLA  | CAA-CBA-CGA-O1A |
| 17  | A     | 806 | CLA  | C13-C15-C16-C17 |
| 17  | 1     | 603 | CLA  | CAA-CBA-CGA-O2A |
| 17  | 4     | 604 | CLA  | CAA-CBA-CGA-O1A |
| 17  | 5     | 611 | CLA  | CAA-CBA-CGA-O2A |
| 17  | B     | 804 | CLA  | O2A-C1-C2-C3    |
| 17  | B     | 820 | CLA  | O2A-C1-C2-C3    |
| 17  | L     | 203 | CLA  | O2A-C1-C2-C3    |
| 17  | O     | 204 | CLA  | O2A-C1-C2-C3    |
| 17  | J     | 102 | CLA  | C2A-CAA-CBA-CGA |
| 17  | B     | 821 | CLA  | C8-C10-C11-C12  |
| 17  | 2     | 602 | CLA  | CAA-CBA-CGA-O2A |
| 16  | A     | 801 | CL0  | C16-C17-C18-C20 |
| 24  | J     | 106 | 3XQ  | C13-C14-C15-C16 |
| 17  | A     | 807 | CLA  | CHA-CBD-CGD-O2D |
| 17  | A     | 812 | CLA  | CHA-CBD-CGD-O1D |
| 17  | A     | 812 | CLA  | CHA-CBD-CGD-O2D |
| 17  | A     | 818 | CLA  | CHA-CBD-CGD-O1D |
| 17  | A     | 823 | CLA  | CHA-CBD-CGD-O2D |
| 17  | A     | 829 | CLA  | CHA-CBD-CGD-O2D |
| 17  | B     | 833 | CLA  | CHA-CBD-CGD-O2D |
| 17  | F     | 301 | CLA  | CHA-CBD-CGD-O2D |
| 17  | F     | 302 | CLA  | CHA-CBD-CGD-O1D |
| 17  | F     | 302 | CLA  | CHA-CBD-CGD-O2D |
| 17  | F     | 303 | CLA  | CHA-CBD-CGD-O2D |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 17  | J     | 102 | CLA  | CHA-CBD-CGD-O2D |
| 17  | L     | 204 | CLA  | CHA-CBD-CGD-O1D |
| 17  | L     | 204 | CLA  | CHA-CBD-CGD-O2D |
| 17  | O     | 201 | CLA  | CHA-CBD-CGD-O1D |
| 17  | O     | 204 | CLA  | CHA-CBD-CGD-O1D |
| 17  | 1     | 603 | CLA  | CHA-CBD-CGD-O1D |
| 17  | 1     | 603 | CLA  | CHA-CBD-CGD-O2D |
| 17  | 1     | 611 | CLA  | CHA-CBD-CGD-O2D |
| 17  | 2     | 602 | CLA  | CHA-CBD-CGD-O2D |
| 17  | 2     | 604 | CLA  | CHA-CBD-CGD-O1D |
| 17  | 2     | 604 | CLA  | CHA-CBD-CGD-O2D |
| 17  | 2     | 609 | CLA  | CHA-CBD-CGD-O1D |
| 17  | 3     | 206 | CLA  | CHA-CBD-CGD-O2D |
| 17  | 4     | 601 | CLA  | CHA-CBD-CGD-O1D |
| 17  | 4     | 601 | CLA  | CHA-CBD-CGD-O2D |
| 17  | 4     | 603 | CLA  | CHA-CBD-CGD-O2D |
| 17  | 5     | 603 | CLA  | CHA-CBD-CGD-O1D |
| 17  | 5     | 603 | CLA  | CHA-CBD-CGD-O2D |
| 17  | 1     | 612 | CLA  | CAA-CBA-CGA-O1A |
| 17  | 5     | 611 | CLA  | CAA-CBA-CGA-O1A |
| 17  | B     | 836 | CLA  | C4-C3-C5-C6     |
| 17  | A     | 837 | CLA  | CAA-CBA-CGA-O2A |
| 20  | B     | 850 | BCR  | C16-C17-C18-C19 |
| 20  | L     | 201 | BCR  | C11-C10-C9-C8   |
| 25  | 4     | 613 | ZEX  | C11-C10-C9-C8   |
| 17  | 1     | 603 | CLA  | CAA-CBA-CGA-O1A |
| 17  | 1     | 606 | CLA  | CAA-CBA-CGA-O1A |
| 19  | A     | 841 | LHG  | C12-C13-C14-C15 |
| 17  | A     | 816 | CLA  | C16-C17-C18-C19 |
| 17  | B     | 808 | CLA  | C10-C11-C12-C13 |
| 17  | B     | 831 | CLA  | CAA-CBA-CGA-O2A |
| 17  | 3     | 203 | CLA  | CAA-CBA-CGA-O2A |
| 17  | A     | 821 | CLA  | CAA-CBA-CGA-O2A |
| 17  | B     | 803 | CLA  | CAA-CBA-CGA-O2A |
| 17  | B     | 809 | CLA  | CAA-CBA-CGA-O2A |
| 17  | B     | 810 | CLA  | CAA-CBA-CGA-O2A |
| 17  | B     | 820 | CLA  | CAA-CBA-CGA-O2A |
| 17  | 2     | 608 | CLA  | CAA-CBA-CGA-O2A |
| 17  | A     | 815 | CLA  | C5-C6-C7-C8     |
| 17  | A     | 805 | CLA  | CAA-CBA-CGA-O2A |
| 17  | B     | 813 | CLA  | CAA-CBA-CGA-O2A |
| 17  | B     | 835 | CLA  | O1D-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 17  | A     | 833 | CLA  | C6-C7-C8-C10    |
| 17  | B     | 802 | CLA  | C12-C13-C15-C16 |
| 17  | B     | 816 | CLA  | CAA-CBA-CGA-O2A |
| 17  | A     | 806 | CLA  | C11-C10-C8-C9   |
| 17  | A     | 809 | CLA  | C11-C10-C8-C9   |
| 17  | B     | 802 | CLA  | C14-C13-C15-C16 |
| 17  | B     | 813 | CLA  | C14-C13-C15-C16 |
| 17  | B     | 827 | CLA  | C6-C7-C8-C9     |
| 20  | A     | 843 | BCR  | C15-C16-C17-C18 |
| 25  | 2     | 616 | ZEX  | C33-C34-C35-C15 |
| 17  | A     | 815 | CLA  | C13-C15-C16-C17 |
| 19  | A     | 842 | LHG  | C11-C12-C13-C14 |
| 17  | B     | 835 | CLA  | CAA-CBA-CGA-O2A |
| 17  | 1     | 608 | CLA  | CAA-CBA-CGA-O1A |
| 17  | 5     | 605 | CLA  | CAA-CBA-CGA-O2A |
| 17  | B     | 821 | CLA  | C2A-CAA-CBA-CGA |
| 20  | L     | 205 | BCR  | C37-C22-C23-C24 |
| 17  | B     | 810 | CLA  | C16-C17-C18-C20 |
| 23  | B     | 851 | DGD  | CBA-CCA-CDA-CEA |
| 17  | A     | 807 | CLA  | C4-C3-C5-C6     |
| 24  | J     | 106 | 3XQ  | C21-C22-C24-O25 |
| 17  | A     | 811 | CLA  | C1A-C2A-CAA-CBA |
| 17  | A     | 825 | CLA  | C1A-C2A-CAA-CBA |
| 17  | A     | 827 | CLA  | C1A-C2A-CAA-CBA |
| 17  | A     | 832 | CLA  | C1A-C2A-CAA-CBA |
| 17  | B     | 803 | CLA  | C1A-C2A-CAA-CBA |
| 17  | B     | 834 | CLA  | C1A-C2A-CAA-CBA |
| 17  | B     | 842 | CLA  | C1A-C2A-CAA-CBA |
| 17  | O     | 204 | CLA  | C1A-C2A-CAA-CBA |
| 19  | A     | 841 | LHG  | C1-C2-C3-O3     |
| 17  | A     | 837 | CLA  | CAA-CBA-CGA-O1A |
| 17  | B     | 831 | CLA  | C2-C1-O2A-CGA   |
| 24  | J     | 106 | 3XQ  | C7-C8-C9-C10    |
| 17  | 3     | 209 | CLA  | CAA-CBA-CGA-O2A |
| 17  | B     | 831 | CLA  | CAA-CBA-CGA-O1A |
| 19  | A     | 841 | LHG  | C14-C15-C16-C17 |
| 17  | B     | 806 | CLA  | C3-C5-C6-C7     |
| 17  | B     | 809 | CLA  | C3-C5-C6-C7     |
| 17  | B     | 803 | CLA  | CAA-CBA-CGA-O1A |
| 17  | B     | 835 | CLA  | CAA-CBA-CGA-O1A |
| 19  | A     | 841 | LHG  | C32-C33-C34-C35 |
| 19  | A     | 842 | LHG  | C3-O3-P-O5      |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 17  | A     | 823 | CLA  | CAA-CBA-CGA-O1A |
| 17  | A     | 831 | CLA  | CAA-CBA-CGA-O1A |
| 17  | B     | 809 | CLA  | CAA-CBA-CGA-O1A |
| 17  | 2     | 608 | CLA  | CAA-CBA-CGA-O1A |
| 20  | B     | 848 | BCR  | C23-C24-C25-C26 |
| 25  | 2     | 616 | ZEX  | C5-C6-C7-C8     |
| 25  | 4     | 616 | ZEX  | C1-C6-C7-C8     |
| 17  | B     | 816 | CLA  | CAA-CBA-CGA-O1A |
| 17  | 2     | 602 | CLA  | CAA-CBA-CGA-O1A |
| 17  | 3     | 203 | CLA  | CAA-CBA-CGA-O1A |
| 17  | B     | 801 | CLA  | CAA-CBA-CGA-O2A |
| 20  | K     | 104 | BCR  | C10-C11-C12-C13 |
| 17  | 5     | 613 | CLA  | CAA-CBA-CGA-O1A |
| 17  | A     | 810 | CLA  | CAA-CBA-CGA-O1A |
| 17  | B     | 810 | CLA  | CAA-CBA-CGA-O1A |
| 17  | B     | 843 | CLA  | CAA-CBA-CGA-O1A |
| 17  | 2     | 602 | CLA  | C4-C3-C5-C6     |
| 17  | B     | 843 | CLA  | C2-C3-C5-C6     |
| 17  | B     | 833 | CLA  | CAA-CBA-CGA-O2A |
| 17  | 2     | 606 | CLA  | CAA-CBA-CGA-O2A |
| 17  | A     | 818 | CLA  | CAD-CBD-CGD-O1D |
| 17  | A     | 831 | CLA  | CAD-CBD-CGD-O1D |
| 17  | A     | 848 | CLA  | CAD-CBD-CGD-O1D |
| 17  | B     | 832 | CLA  | CAD-CBD-CGD-O1D |
| 17  | O     | 201 | CLA  | CAD-CBD-CGD-O1D |
| 17  | 4     | 602 | CLA  | CAD-CBD-CGD-O1D |
| 17  | 4     | 609 | CLA  | CAD-CBD-CGD-O1D |
| 17  | B     | 842 | CLA  | O1A-CGA-O2A-C1  |
| 17  | B     | 813 | CLA  | CAA-CBA-CGA-O1A |
| 23  | B     | 851 | DGD  | O1B-C1B-C2B-C3B |
| 17  | A     | 827 | CLA  | C15-C16-C17-C18 |
| 17  | L     | 203 | CLA  | C8-C10-C11-C12  |
| 17  | A     | 837 | CLA  | C11-C12-C13-C14 |
| 17  | B     | 812 | CLA  | C11-C12-C13-C14 |
| 23  | B     | 851 | DGD  | CFB-CGB-CHB-CIB |
| 17  | A     | 832 | CLA  | CAA-CBA-CGA-O2A |
| 19  | A     | 842 | LHG  | C24-C25-C26-C27 |
| 17  | 1     | 611 | CLA  | C2A-CAA-CBA-CGA |
| 17  | 3     | 210 | CLA  | C2C-C3C-CAC-CBC |
| 17  | B     | 813 | CLA  | C3-C5-C6-C7     |
| 17  | A     | 804 | CLA  | C4-C3-C5-C6     |
| 17  | B     | 822 | CLA  | C4-C3-C5-C6     |

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| Mol | Chain | Res | Type | Atoms           |
|-----|-------|-----|------|-----------------|
| 16  | A     | 801 | CL0  | C12-C13-C15-C16 |
| 17  | A     | 804 | CLA  | C3A-C2A-CAA-CBA |
| 17  | A     | 806 | CLA  | C11-C10-C8-C7   |
| 17  | A     | 807 | CLA  | C11-C12-C13-C15 |
| 17  | A     | 837 | CLA  | C11-C12-C13-C15 |
| 17  | B     | 801 | CLA  | C2-C3-C5-C6     |
| 17  | B     | 808 | CLA  | C11-C12-C13-C15 |
| 17  | B     | 810 | CLA  | C12-C13-C15-C16 |
| 17  | B     | 813 | CLA  | C12-C13-C15-C16 |
| 17  | B     | 827 | CLA  | C6-C7-C8-C10    |
| 17  | B     | 832 | CLA  | C12-C13-C15-C16 |
| 17  | B     | 842 | CLA  | C12-C13-C15-C16 |
| 17  | 3     | 211 | CLA  | C3A-C2A-CAA-CBA |
| 17  | 5     | 602 | CLA  | C3A-C2A-CAA-CBA |
| 17  | A     | 807 | CLA  | CAA-CBA-CGA-O1A |
| 17  | A     | 821 | CLA  | CAA-CBA-CGA-O1A |
| 17  | F     | 302 | CLA  | CAA-CBA-CGA-O2A |
| 17  | 4     | 610 | CLA  | CAA-CBA-CGA-O1A |
| 17  | A     | 807 | CLA  | CAA-CBA-CGA-O2A |
| 17  | A     | 825 | CLA  | CAA-CBA-CGA-O2A |
| 20  | B     | 848 | BCR  | C21-C22-C23-C24 |
| 17  | B     | 820 | CLA  | CAA-CBA-CGA-O1A |
| 17  | 3     | 209 | CLA  | CAA-CBA-CGA-O1A |
| 17  | 2     | 605 | CLA  | CAA-CBA-CGA-O1A |
| 17  | 5     | 607 | CLA  | CAA-CBA-CGA-O1A |
| 17  | B     | 808 | CLA  | CAA-CBA-CGA-O2A |
| 23  | B     | 851 | DGD  | O6E-C1E-O5D-C6D |
| 17  | A     | 804 | CLA  | CAA-CBA-CGA-O1A |
| 17  | A     | 832 | CLA  | CAA-CBA-CGA-O1A |
| 17  | B     | 819 | CLA  | CAA-CBA-CGA-O2A |
| 17  | 3     | 213 | CLA  | CAA-CBA-CGA-O2A |
| 19  | A     | 841 | LHG  | C25-C26-C27-C28 |
| 17  | 5     | 607 | CLA  | CAA-CBA-CGA-O2A |
| 17  | A     | 824 | CLA  | C5-C6-C7-C8     |

There are no ring outliers.

196 monomers are involved in 583 short contacts:

| Mol | Chain | Res | Type | Clashes | Symm-Clashes |
|-----|-------|-----|------|---------|--------------|
| 17  | B     | 836 | CLA  | 5       | 0            |
| 17  | A     | 808 | CLA  | 3       | 0            |
| 17  | A     | 830 | CLA  | 3       | 0            |

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| Mol | Chain | Res | Type | Clashes | Symm-Clashes |
|-----|-------|-----|------|---------|--------------|
| 20  | B     | 846 | BCR  | 2       | 0            |
| 17  | J     | 103 | CLA  | 1       | 0            |
| 16  | A     | 801 | CL0  | 59      | 0            |
| 20  | B     | 805 | BCR  | 6       | 0            |
| 25  | 5     | 614 | ZEX  | 4       | 0            |
| 17  | B     | 803 | CLA  | 2       | 0            |
| 17  | L     | 202 | CLA  | 1       | 0            |
| 17  | 2     | 608 | CLA  | 2       | 0            |
| 17  | 4     | 606 | CLA  | 3       | 0            |
| 17  | B     | 808 | CLA  | 3       | 0            |
| 17  | A     | 807 | CLA  | 5       | 0            |
| 17  | B     | 833 | CLA  | 3       | 0            |
| 17  | A     | 831 | CLA  | 11      | 0            |
| 17  | O     | 204 | CLA  | 2       | 0            |
| 17  | 1     | 601 | CLA  | 3       | 0            |
| 17  | 5     | 603 | CLA  | 7       | 0            |
| 25  | 4     | 614 | ZEX  | 6       | 0            |
| 17  | A     | 809 | CLA  | 3       | 0            |
| 20  | A     | 843 | BCR  | 5       | 0            |
| 17  | A     | 815 | CLA  | 4       | 0            |
| 20  | L     | 206 | BCR  | 2       | 0            |
| 25  | 3     | 201 | ZEX  | 4       | 0            |
| 25  | 3     | 217 | ZEX  | 1       | 0            |
| 17  | B     | 842 | CLA  | 14      | 0            |
| 17  | A     | 838 | CLA  | 9       | 0            |
| 19  | A     | 842 | LHG  | 3       | 0            |
| 17  | A     | 818 | CLA  | 4       | 0            |
| 25  | 3     | 216 | ZEX  | 1       | 0            |
| 17  | 2     | 605 | CLA  | 2       | 0            |
| 17  | 4     | 609 | CLA  | 3       | 0            |
| 20  | J     | 105 | BCR  | 2       | 0            |
| 17  | 1     | 604 | CLA  | 1       | 0            |
| 17  | 1     | 603 | CLA  | 2       | 0            |
| 17  | A     | 827 | CLA  | 5       | 0            |
| 17  | B     | 801 | CLA  | 11      | 0            |
| 17  | 2     | 609 | CLA  | 2       | 0            |
| 20  | J     | 104 | BCR  | 4       | 0            |
| 17  | B     | 839 | CLA  | 5       | 0            |
| 17  | 1     | 610 | CLA  | 1       | 0            |
| 17  | B     | 817 | CLA  | 2       | 0            |
| 17  | 3     | 209 | CLA  | 2       | 0            |
| 17  | 4     | 607 | CLA  | 1       | 0            |

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| Mol | Chain | Res | Type | Clashes | Symm-Clashes |
|-----|-------|-----|------|---------|--------------|
| 17  | 5     | 608 | CLA  | 2       | 0            |
| 17  | O     | 201 | CLA  | 1       | 0            |
| 17  | B     | 843 | CLA  | 4       | 0            |
| 17  | B     | 810 | CLA  | 4       | 0            |
| 17  | L     | 204 | CLA  | 1       | 0            |
| 17  | B     | 835 | CLA  | 7       | 0            |
| 17  | A     | 848 | CLA  | 9       | 0            |
| 17  | B     | 821 | CLA  | 5       | 0            |
| 17  | 4     | 604 | CLA  | 3       | 0            |
| 17  | K     | 103 | CLA  | 1       | 0            |
| 17  | 3     | 204 | CLA  | 3       | 0            |
| 17  | F     | 301 | CLA  | 1       | 0            |
| 25  | 4     | 616 | ZEX  | 2       | 0            |
| 17  | A     | 821 | CLA  | 1       | 0            |
| 17  | 3     | 203 | CLA  | 8       | 0            |
| 17  | 5     | 607 | CLA  | 3       | 0            |
| 17  | 5     | 612 | CLA  | 2       | 0            |
| 17  | A     | 805 | CLA  | 5       | 0            |
| 17  | A     | 828 | CLA  | 5       | 0            |
| 17  | A     | 817 | CLA  | 8       | 0            |
| 25  | 1     | 614 | ZEX  | 8       | 0            |
| 17  | 1     | 609 | CLA  | 1       | 0            |
| 17  | 2     | 601 | CLA  | 4       | 0            |
| 20  | K     | 104 | BCR  | 5       | 0            |
| 17  | A     | 829 | CLA  | 2       | 0            |
| 20  | I     | 101 | BCR  | 4       | 0            |
| 21  | C     | 101 | SF4  | 1       | 0            |
| 20  | B     | 849 | BCR  | 2       | 0            |
| 25  | 2     | 616 | ZEX  | 1       | 0            |
| 25  | 2     | 617 | ZEX  | 2       | 0            |
| 25  | 3     | 218 | ZEX  | 6       | 0            |
| 25  | 1     | 616 | ZEX  | 2       | 0            |
| 25  | 3     | 215 | ZEX  | 6       | 0            |
| 17  | 2     | 604 | CLA  | 2       | 0            |
| 21  | C     | 102 | SF4  | 1       | 0            |
| 17  | B     | 819 | CLA  | 3       | 0            |
| 17  | B     | 825 | CLA  | 1       | 0            |
| 17  | A     | 814 | CLA  | 1       | 0            |
| 17  | B     | 806 | CLA  | 11      | 0            |
| 17  | A     | 803 | CLA  | 7       | 0            |
| 17  | A     | 837 | CLA  | 4       | 0            |
| 17  | 1     | 606 | CLA  | 4       | 0            |

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| Mol | Chain | Res | Type | Clashes | Symm-Clashes |
|-----|-------|-----|------|---------|--------------|
| 17  | 1     | 602 | CLA  | 2       | 0            |
| 20  | F     | 304 | BCR  | 2       | 0            |
| 17  | B     | 816 | CLA  | 7       | 0            |
| 17  | B     | 809 | CLA  | 6       | 0            |
| 17  | B     | 829 | CLA  | 6       | 0            |
| 17  | A     | 812 | CLA  | 1       | 0            |
| 20  | A     | 845 | BCR  | 3       | 0            |
| 25  | 5     | 617 | ZEX  | 8       | 0            |
| 17  | A     | 823 | CLA  | 5       | 0            |
| 25  | 2     | 615 | ZEX  | 4       | 0            |
| 17  | 1     | 612 | CLA  | 2       | 0            |
| 17  | B     | 822 | CLA  | 4       | 0            |
| 17  | 4     | 601 | CLA  | 3       | 0            |
| 17  | B     | 811 | CLA  | 4       | 0            |
| 26  | 3     | 219 | 1DO  | 1       | 0            |
| 17  | A     | 832 | CLA  | 4       | 0            |
| 17  | A     | 839 | CLA  | 5       | 0            |
| 25  | 1     | 613 | ZEX  | 3       | 0            |
| 17  | B     | 812 | CLA  | 7       | 0            |
| 17  | B     | 826 | CLA  | 2       | 0            |
| 18  | B     | 844 | PQN  | 3       | 0            |
| 20  | B     | 847 | BCR  | 6       | 0            |
| 25  | 1     | 615 | ZEX  | 2       | 0            |
| 17  | A     | 833 | CLA  | 4       | 0            |
| 17  | A     | 836 | CLA  | 8       | 0            |
| 17  | B     | 827 | CLA  | 6       | 0            |
| 17  | B     | 824 | CLA  | 3       | 0            |
| 17  | 4     | 611 | CLA  | 5       | 0            |
| 17  | B     | 820 | CLA  | 4       | 0            |
| 17  | 5     | 605 | CLA  | 2       | 0            |
| 25  | 1     | 617 | ZEX  | 4       | 0            |
| 20  | O     | 202 | BCR  | 5       | 0            |
| 17  | L     | 203 | CLA  | 4       | 0            |
| 17  | 5     | 604 | CLA  | 2       | 0            |
| 17  | A     | 802 | CLA  | 1       | 0            |
| 17  | 2     | 603 | CLA  | 2       | 0            |
| 20  | B     | 845 | BCR  | 1       | 0            |
| 17  | A     | 825 | CLA  | 5       | 0            |
| 20  | K     | 101 | BCR  | 6       | 0            |
| 17  | B     | 804 | CLA  | 9       | 0            |
| 17  | K     | 102 | CLA  | 1       | 0            |
| 17  | 3     | 212 | CLA  | 3       | 0            |

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| Mol | Chain | Res | Type | Clashes | Symm-Clashes |
|-----|-------|-----|------|---------|--------------|
| 19  | A     | 841 | LHG  | 3       | 0            |
| 25  | 5     | 615 | ZEX  | 1       | 0            |
| 17  | A     | 804 | CLA  | 5       | 0            |
| 17  | A     | 820 | CLA  | 1       | 0            |
| 17  | B     | 818 | CLA  | 3       | 0            |
| 17  | J     | 102 | CLA  | 4       | 0            |
| 17  | B     | 838 | CLA  | 4       | 0            |
| 17  | 3     | 208 | CLA  | 2       | 0            |
| 20  | L     | 205 | BCR  | 6       | 0            |
| 17  | 2     | 602 | CLA  | 6       | 0            |
| 17  | A     | 822 | CLA  | 2       | 0            |
| 17  | A     | 811 | CLA  | 4       | 0            |
| 17  | 3     | 205 | CLA  | 2       | 0            |
| 20  | A     | 846 | BCR  | 6       | 0            |
| 23  | B     | 851 | DGD  | 5       | 0            |
| 25  | 4     | 613 | ZEX  | 4       | 0            |
| 25  | 4     | 612 | ZEX  | 3       | 0            |
| 17  | 5     | 606 | CLA  | 4       | 0            |
| 17  | 2     | 607 | CLA  | 1       | 0            |
| 17  | 5     | 601 | CLA  | 2       | 0            |
| 25  | 4     | 615 | ZEX  | 2       | 0            |
| 17  | A     | 806 | CLA  | 8       | 0            |
| 17  | F     | 302 | CLA  | 3       | 0            |
| 20  | L     | 201 | BCR  | 3       | 0            |
| 20  | B     | 850 | BCR  | 4       | 0            |
| 17  | B     | 840 | CLA  | 3       | 0            |
| 17  | 1     | 607 | CLA  | 2       | 0            |
| 17  | B     | 814 | CLA  | 2       | 0            |
| 17  | B     | 830 | CLA  | 7       | 0            |
| 17  | A     | 834 | CLA  | 6       | 0            |
| 17  | A     | 835 | CLA  | 1       | 0            |
| 17  | 3     | 207 | CLA  | 4       | 0            |
| 17  | 5     | 602 | CLA  | 2       | 0            |
| 17  | 5     | 609 | CLA  | 1       | 0            |
| 17  | 2     | 610 | CLA  | 2       | 0            |
| 17  | 3     | 206 | CLA  | 5       | 0            |
| 25  | 3     | 214 | ZEX  | 3       | 0            |
| 17  | 2     | 606 | CLA  | 3       | 0            |
| 20  | A     | 844 | BCR  | 1       | 0            |
| 25  | 5     | 616 | ZEX  | 3       | 0            |
| 17  | 2     | 613 | CLA  | 1       | 0            |
| 17  | 3     | 210 | CLA  | 1       | 0            |

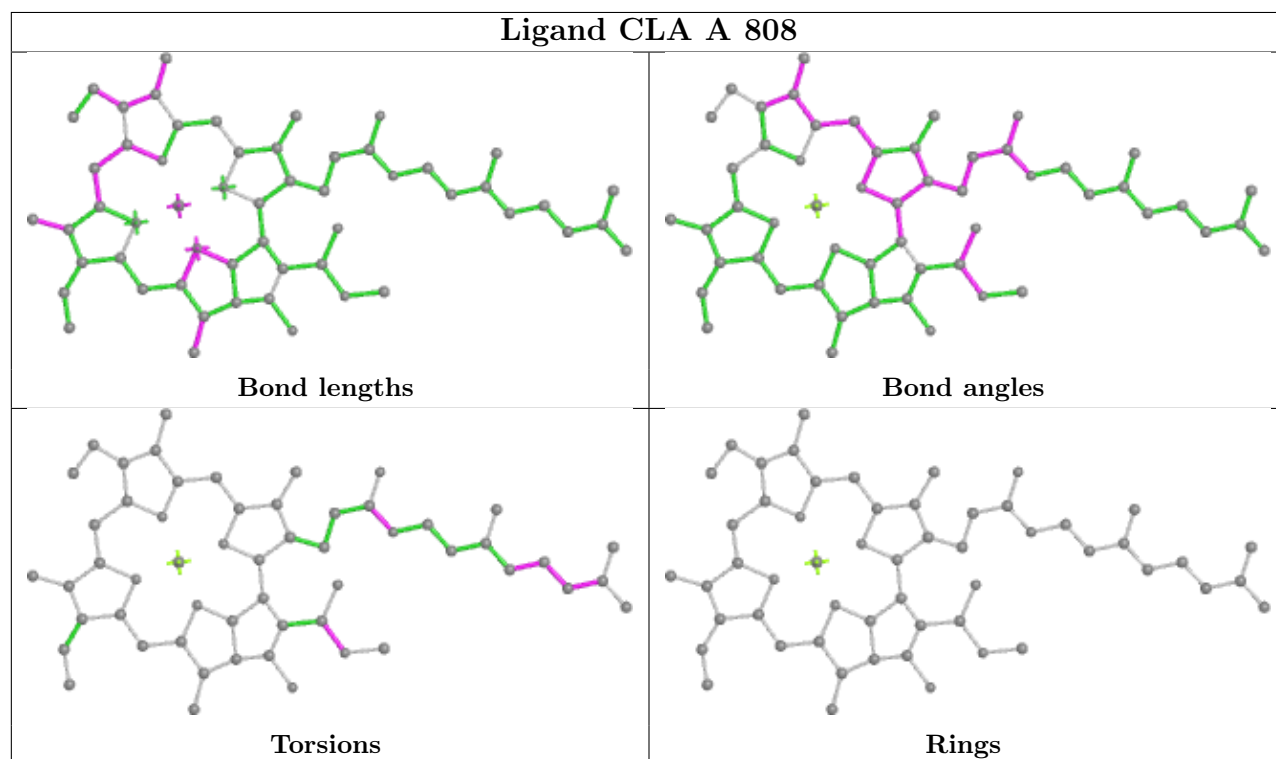
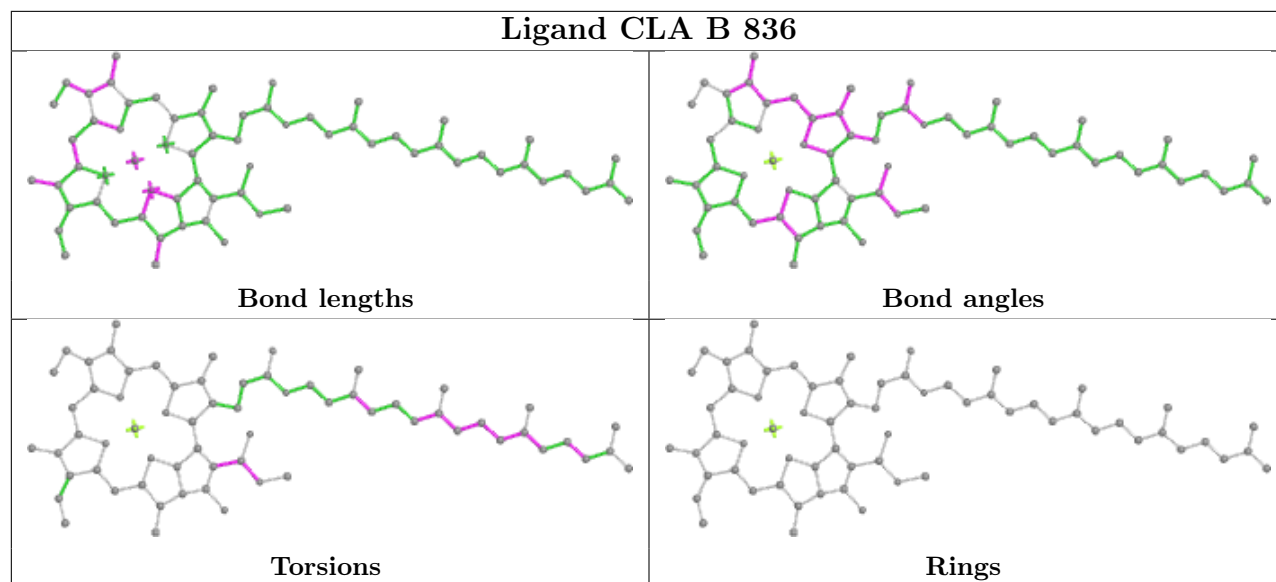
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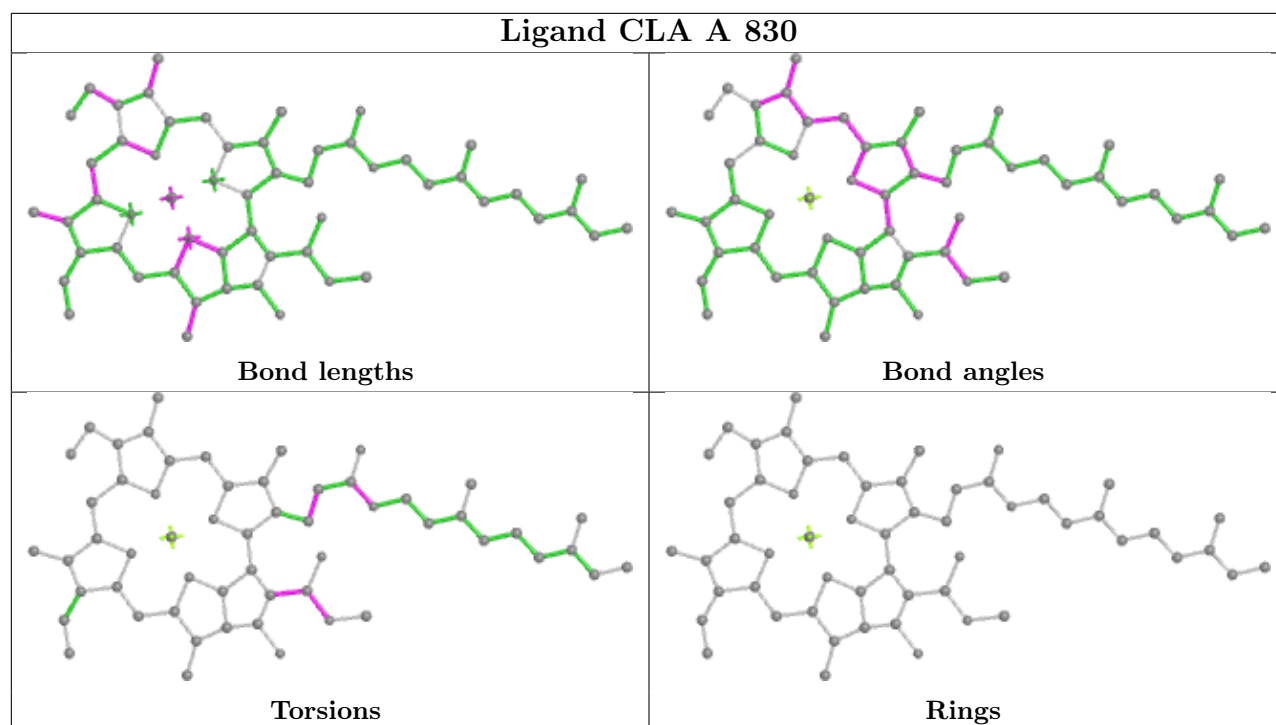
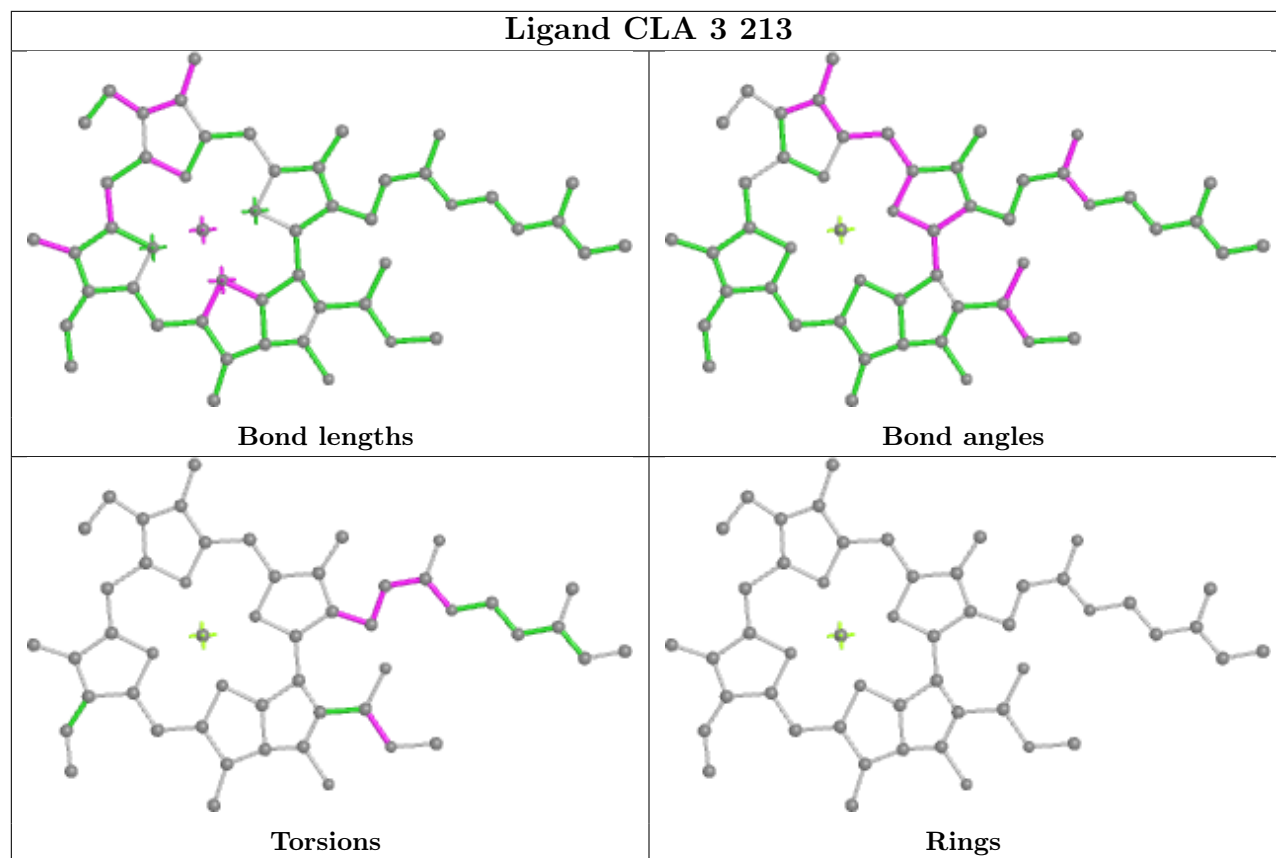
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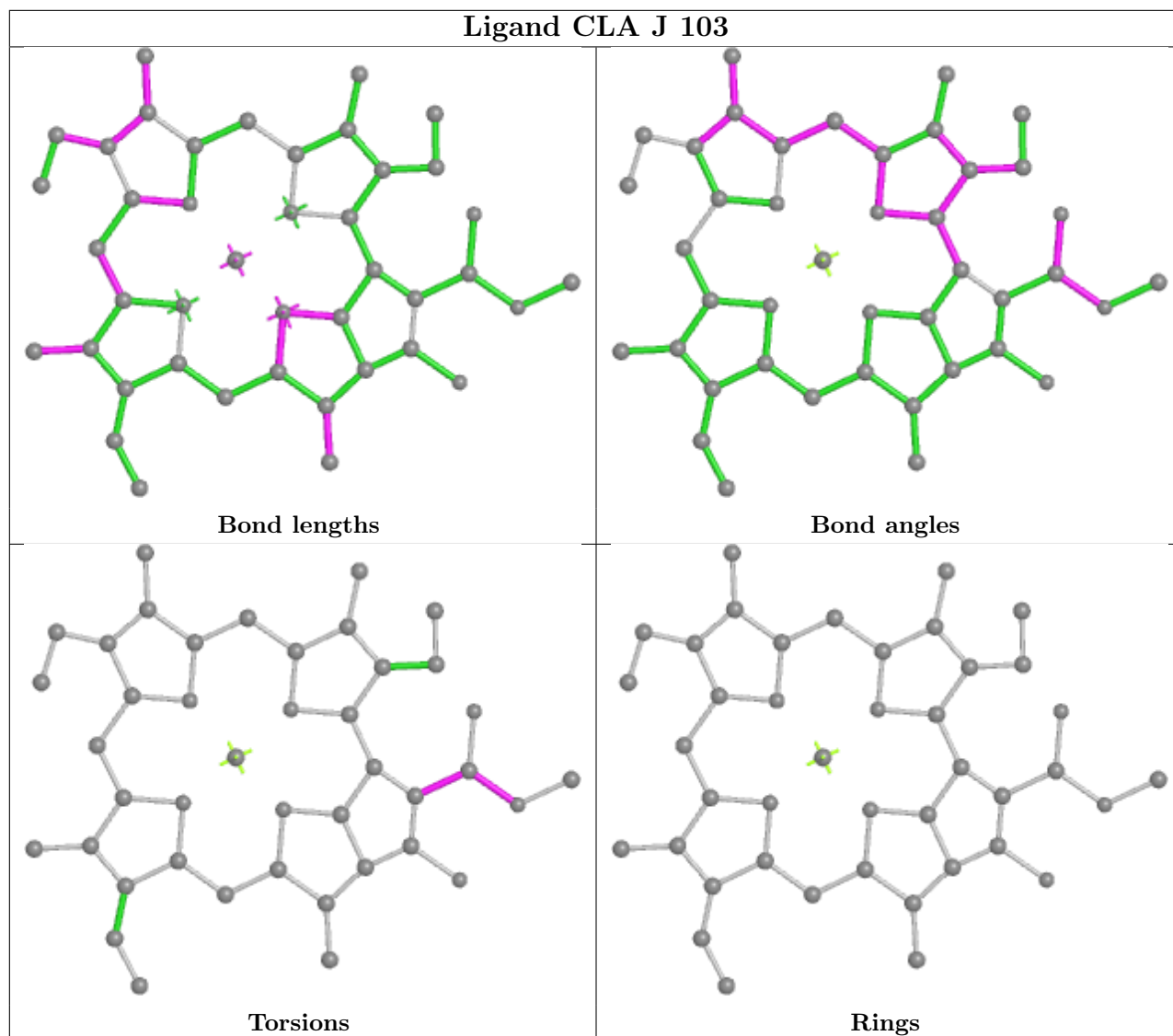
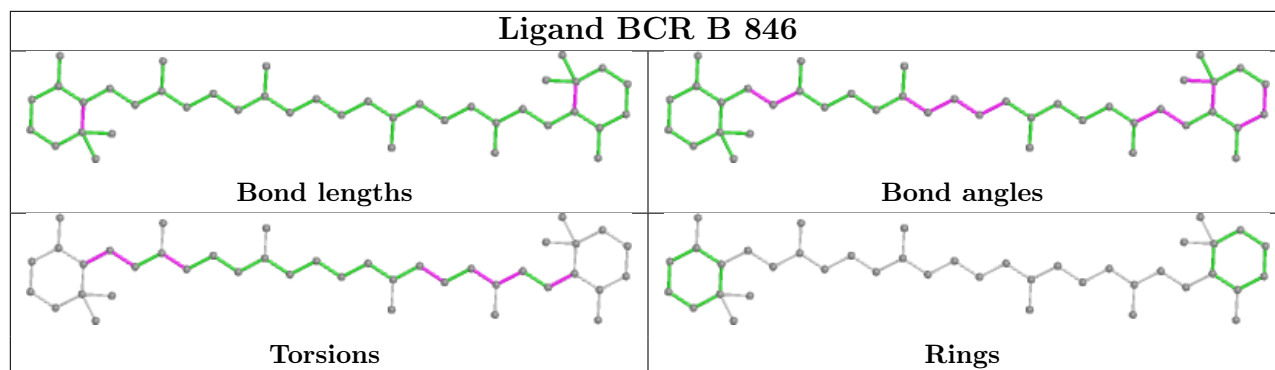
| Mol | Chain | Res | Type | Clashes | Symm-Clashes |
|-----|-------|-----|------|---------|--------------|
| 17  | 1     | 611 | CLA  | 1       | 0            |
| 17  | 4     | 608 | CLA  | 4       | 0            |
| 20  | B     | 848 | BCR  | 4       | 0            |
| 17  | 4     | 602 | CLA  | 2       | 0            |
| 17  | B     | 837 | CLA  | 2       | 0            |
| 17  | A     | 824 | CLA  | 3       | 0            |
| 17  | O     | 205 | CLA  | 1       | 0            |
| 17  | 2     | 612 | CLA  | 1       | 0            |
| 17  | B     | 832 | CLA  | 5       | 0            |
| 17  | B     | 831 | CLA  | 9       | 0            |
| 17  | B     | 834 | CLA  | 1       | 0            |
| 17  | J     | 101 | CLA  | 6       | 0            |
| 18  | A     | 840 | PQN  | 4       | 0            |
| 17  | A     | 819 | CLA  | 5       | 0            |
| 25  | 4     | 617 | ZEX  | 1       | 0            |
| 17  | B     | 828 | CLA  | 4       | 0            |
| 25  | 2     | 614 | ZEX  | 4       | 0            |
| 17  | B     | 841 | CLA  | 9       | 0            |
| 17  | A     | 826 | CLA  | 10      | 0            |
| 17  | A     | 810 | CLA  | 3       | 0            |
| 17  | B     | 813 | CLA  | 4       | 0            |
| 17  | 5     | 611 | CLA  | 1       | 0            |
| 17  | B     | 802 | CLA  | 8       | 0            |
| 17  | A     | 816 | CLA  | 5       | 0            |
| 17  | A     | 813 | CLA  | 2       | 0            |

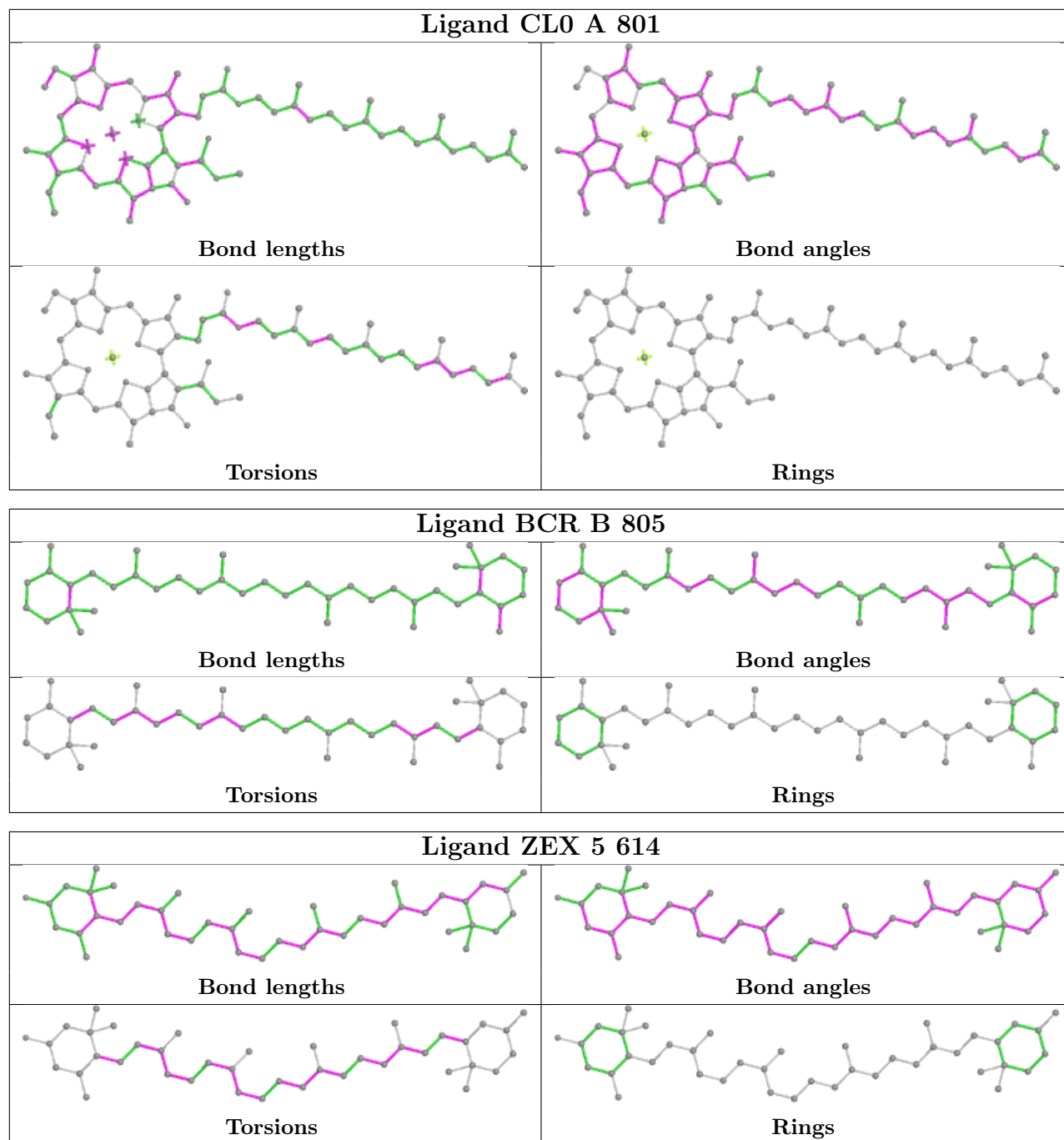
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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.

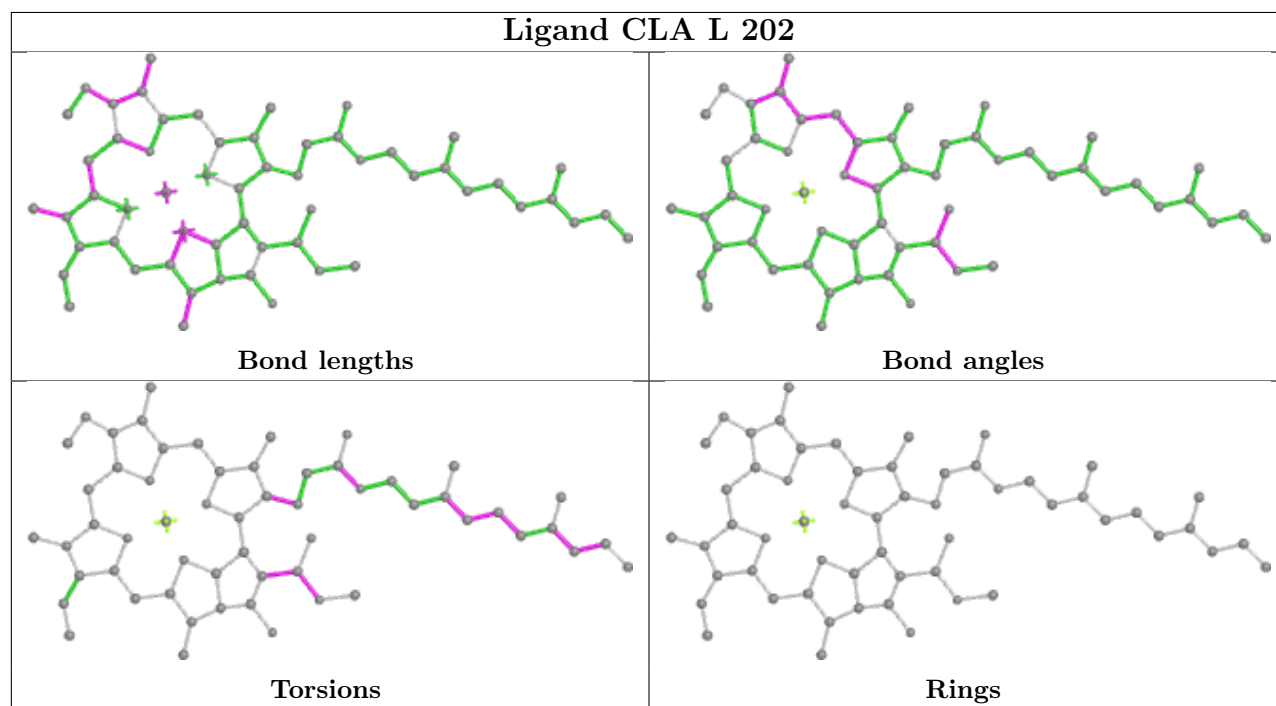
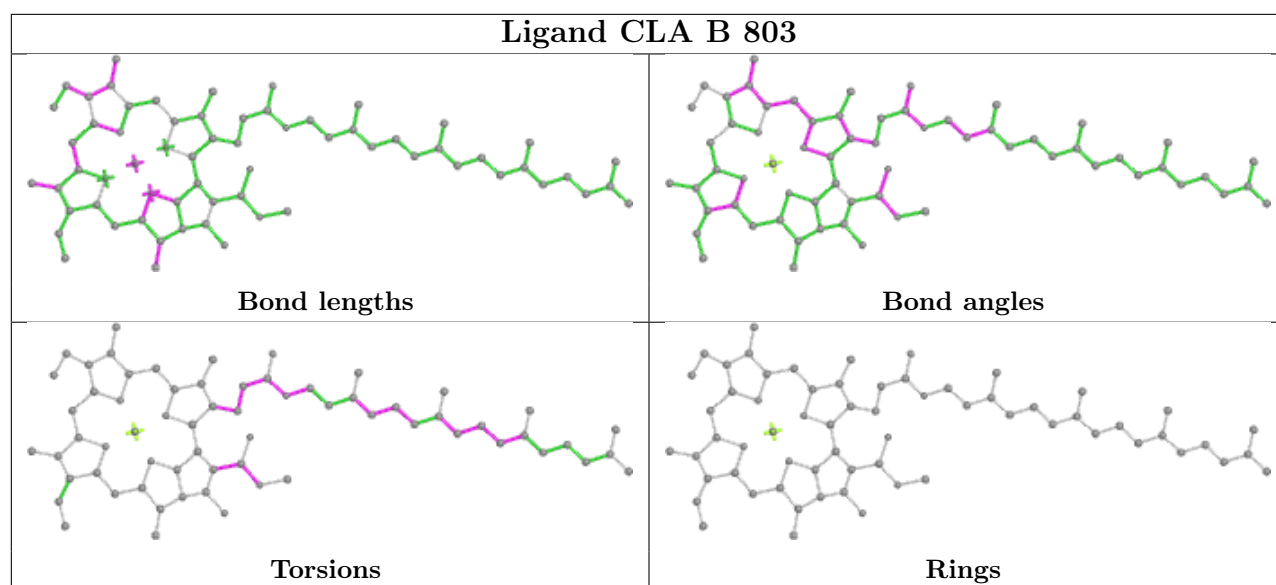


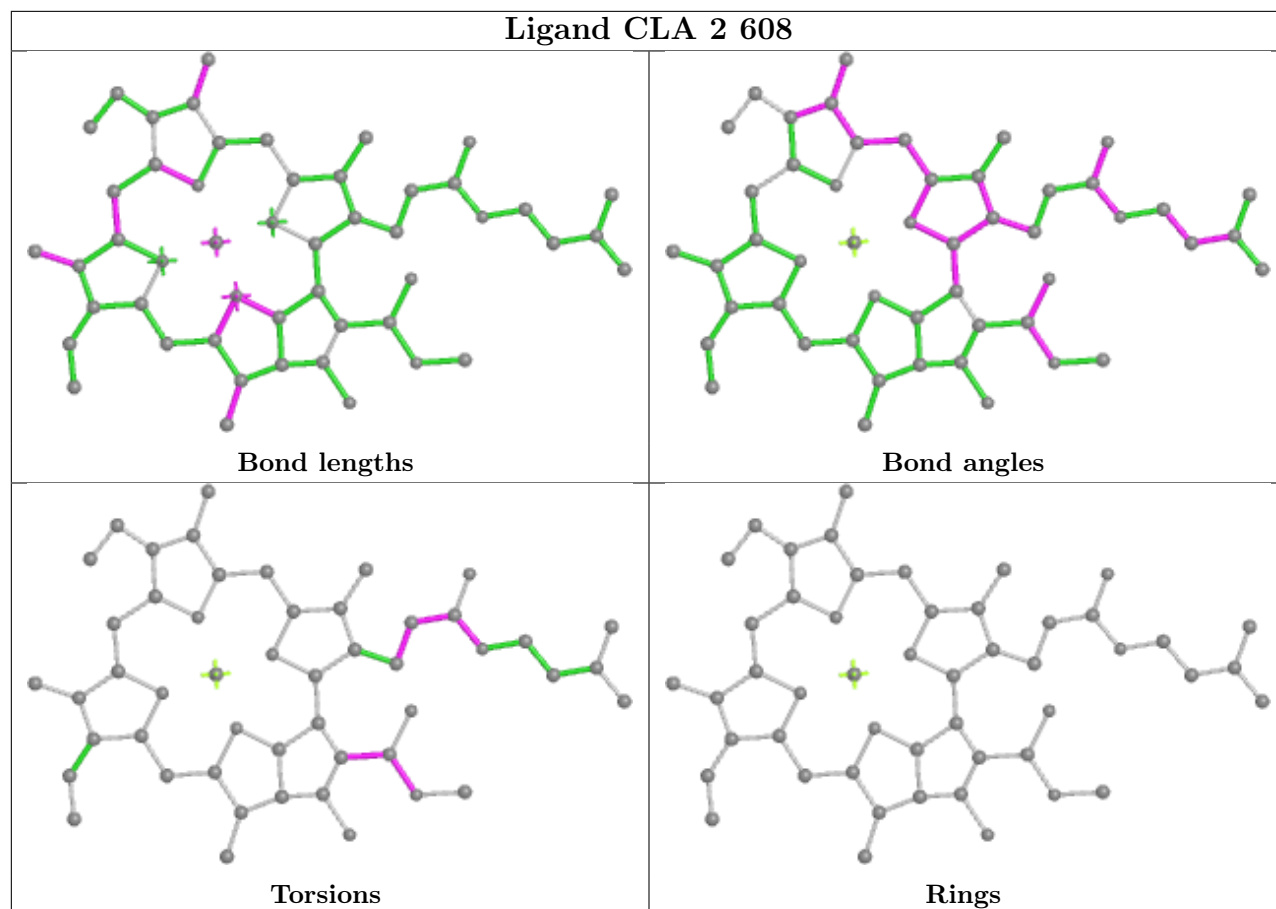


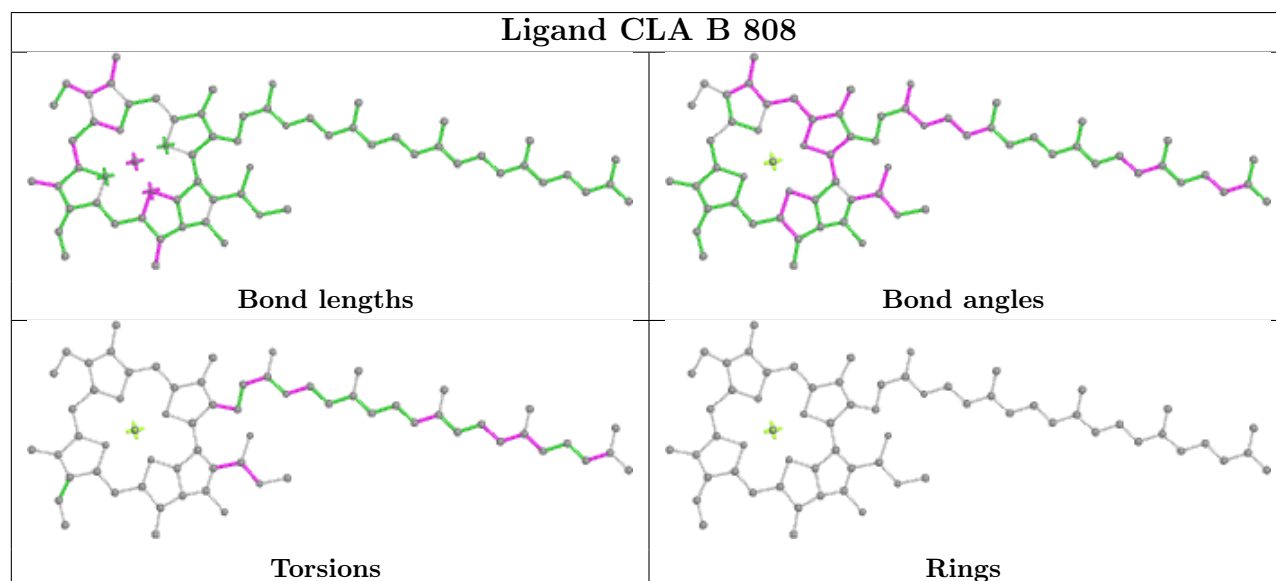
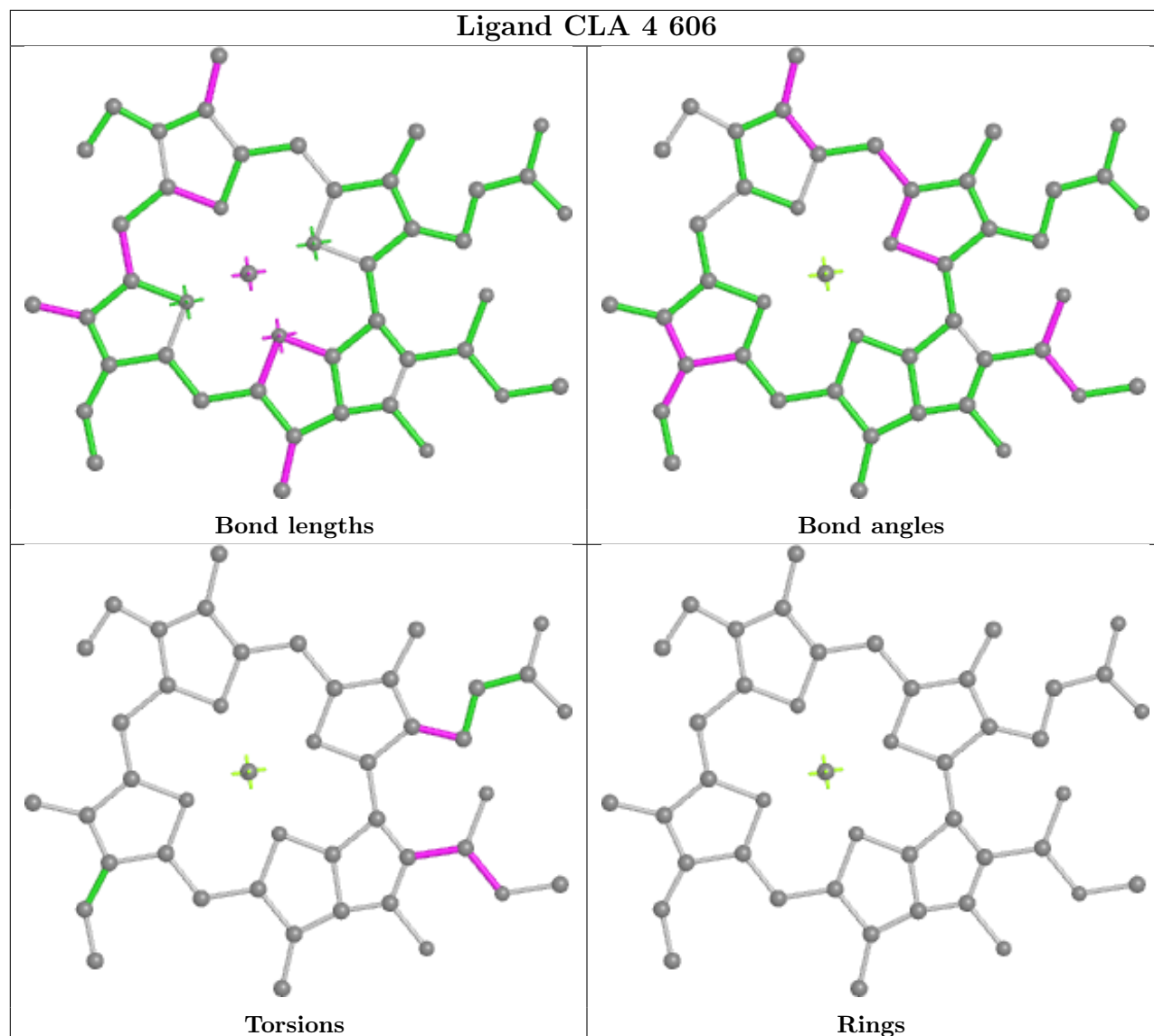


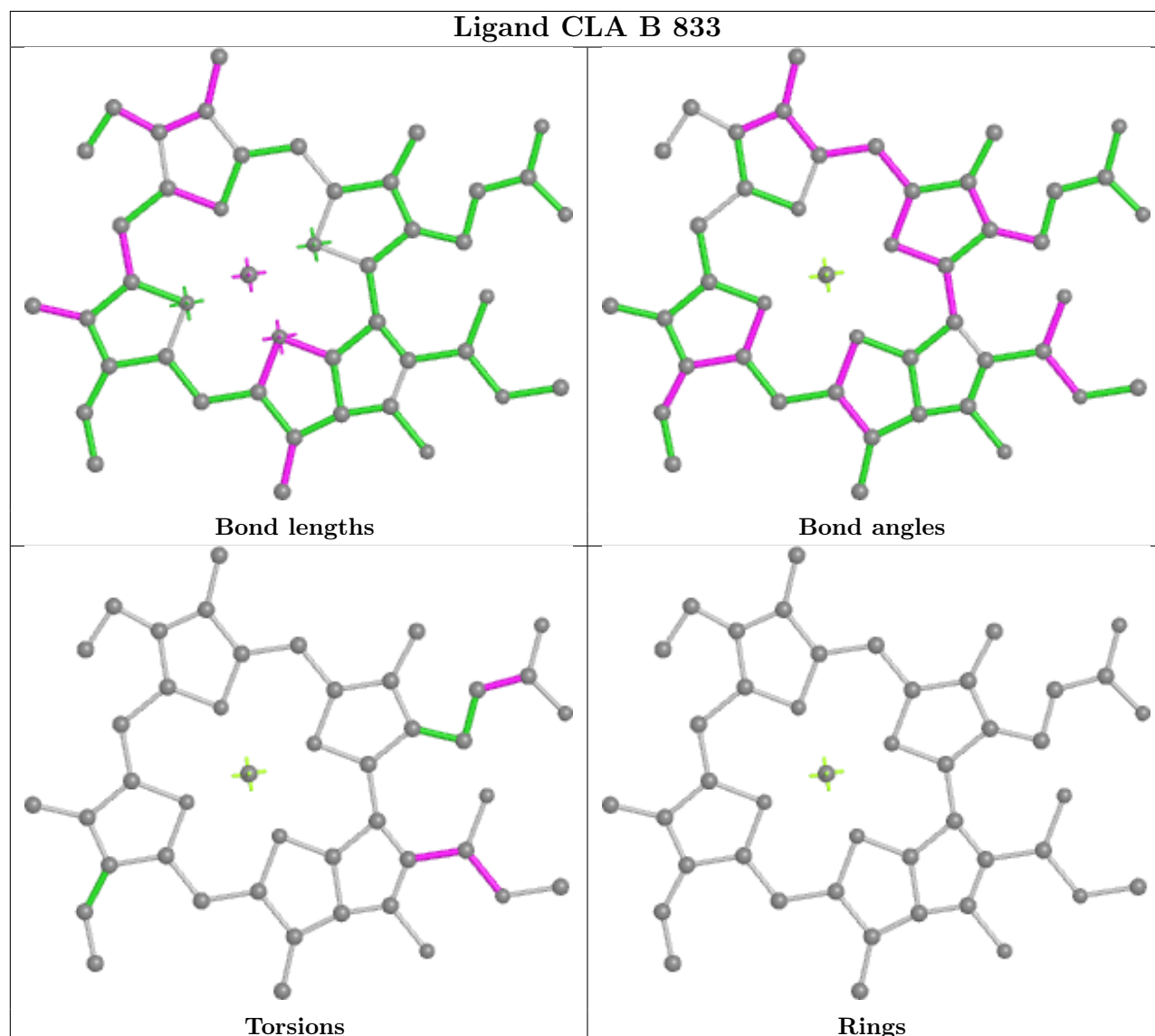
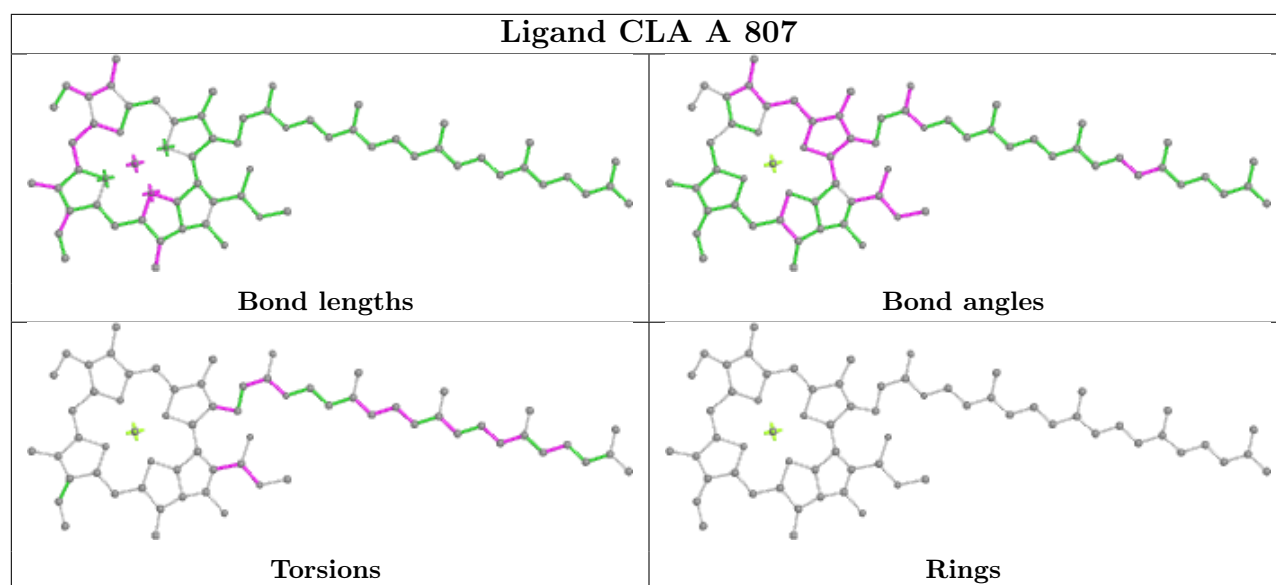




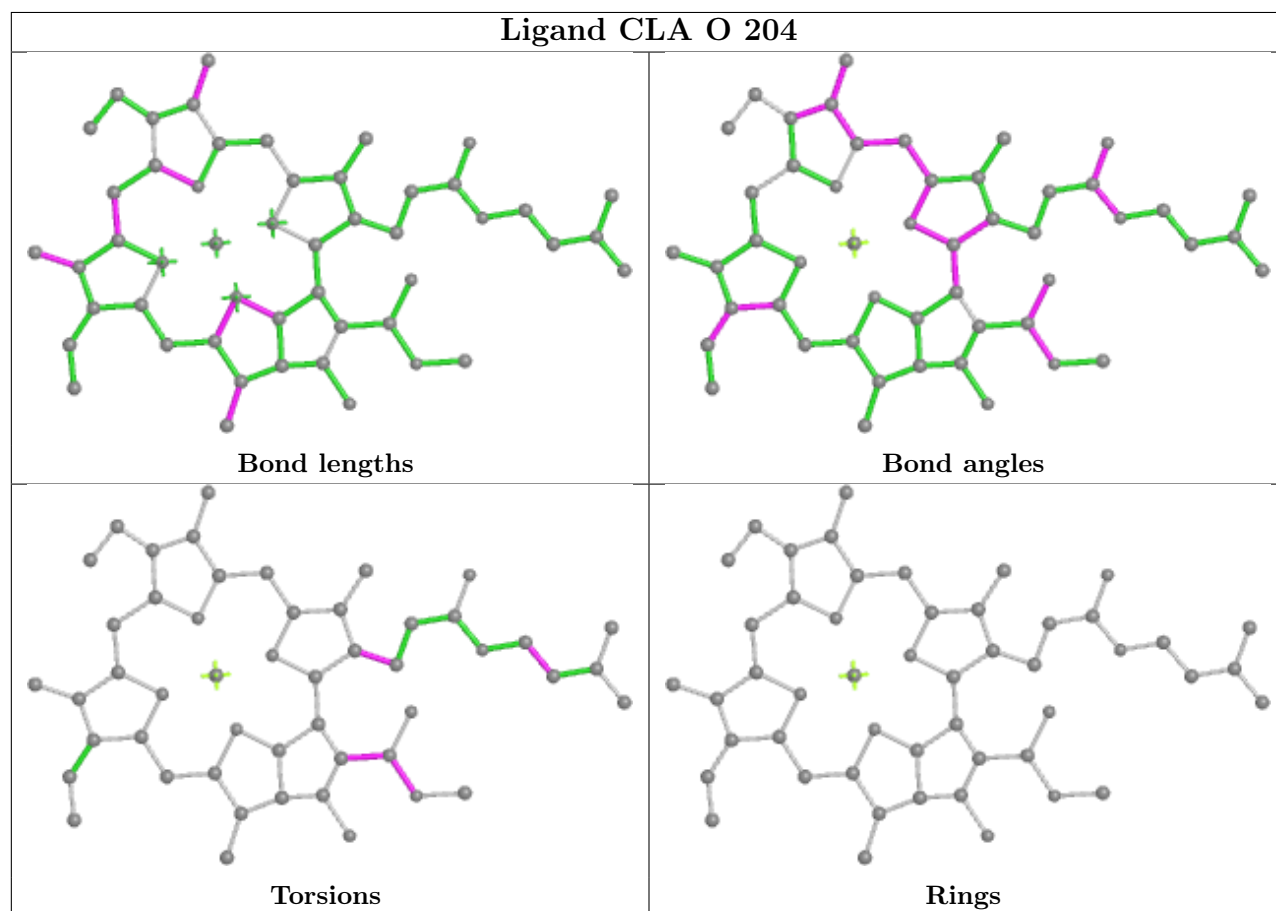
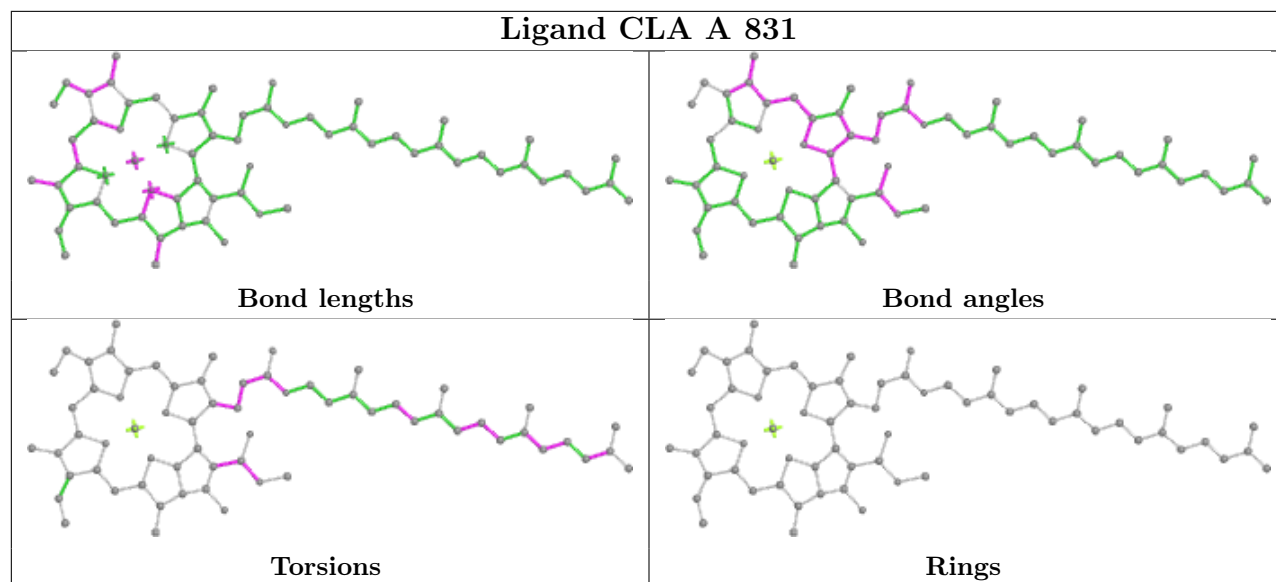


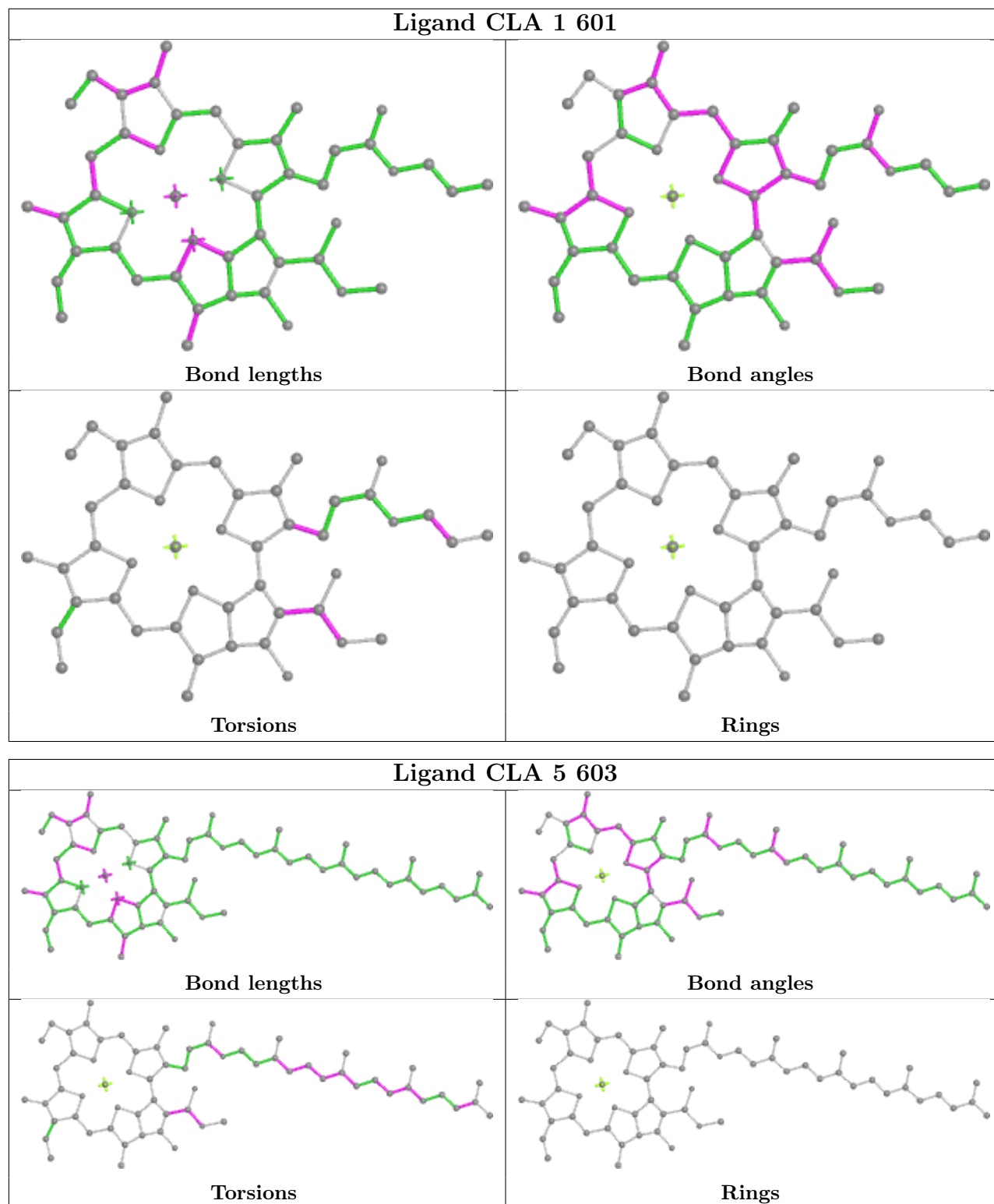


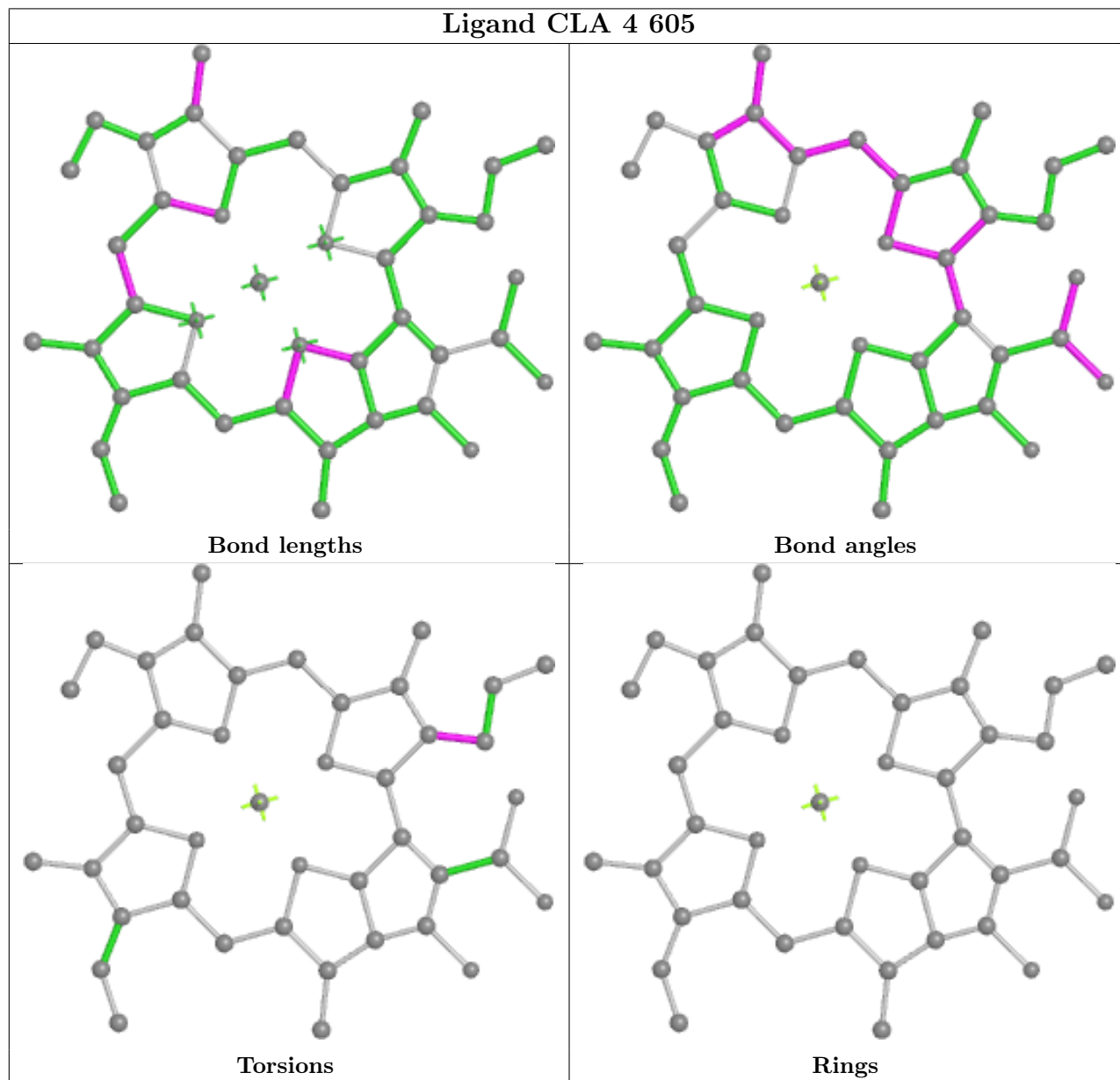
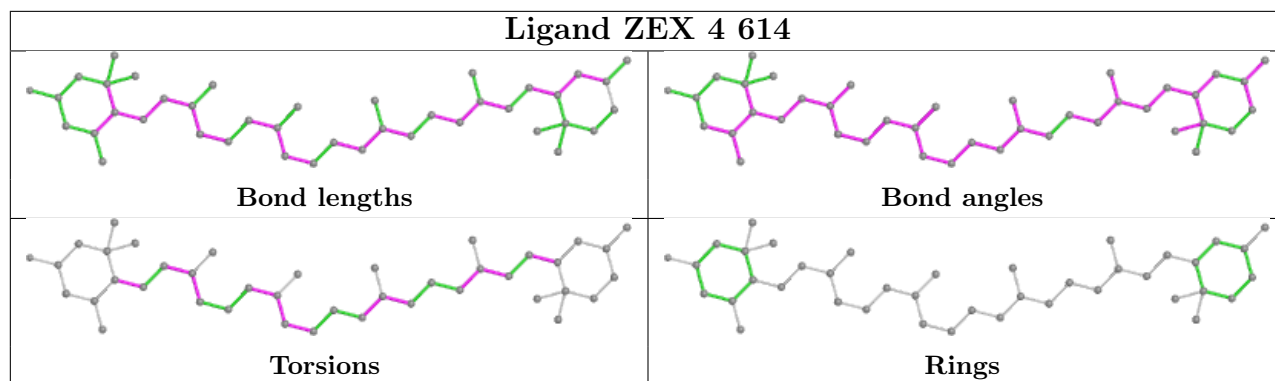


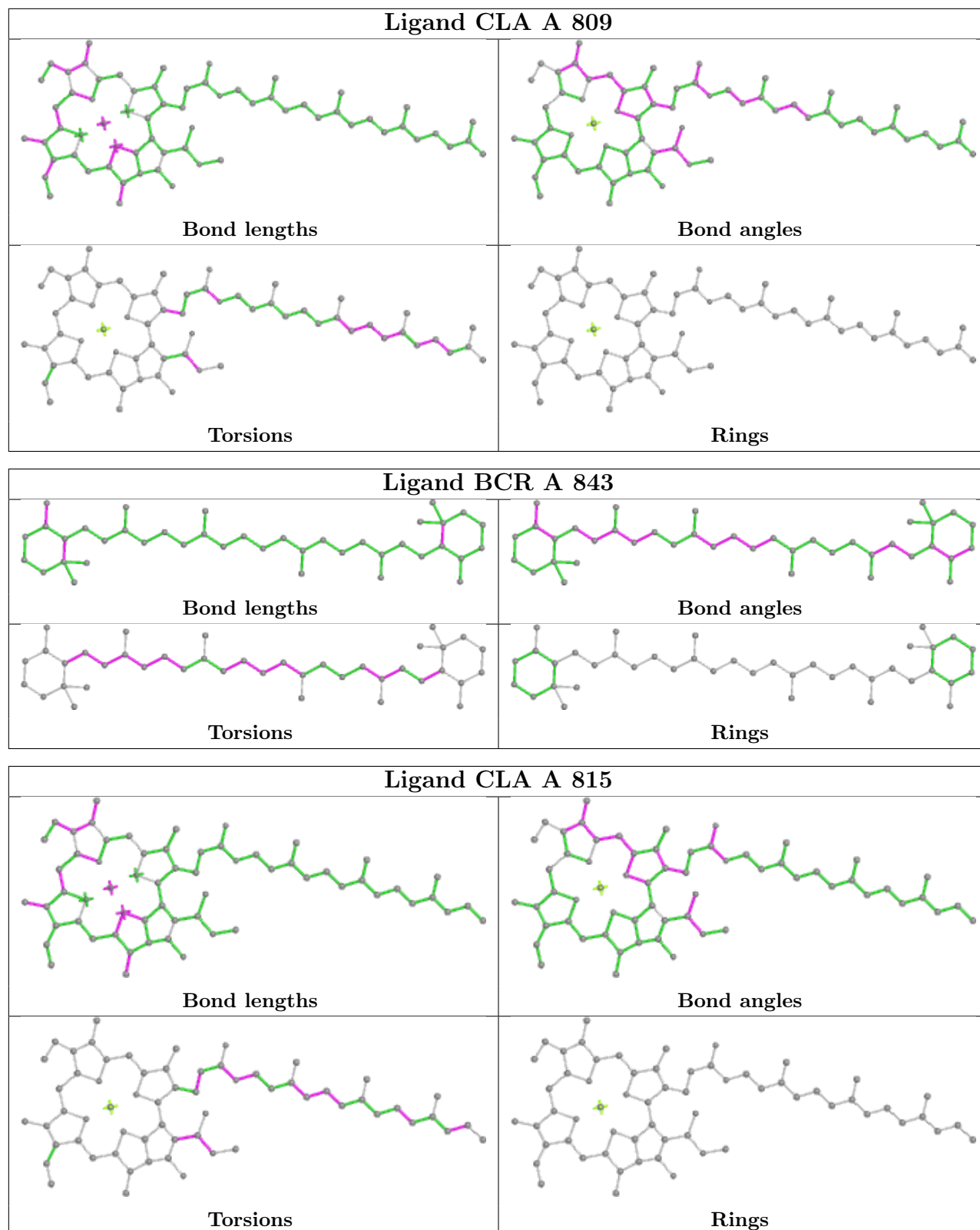


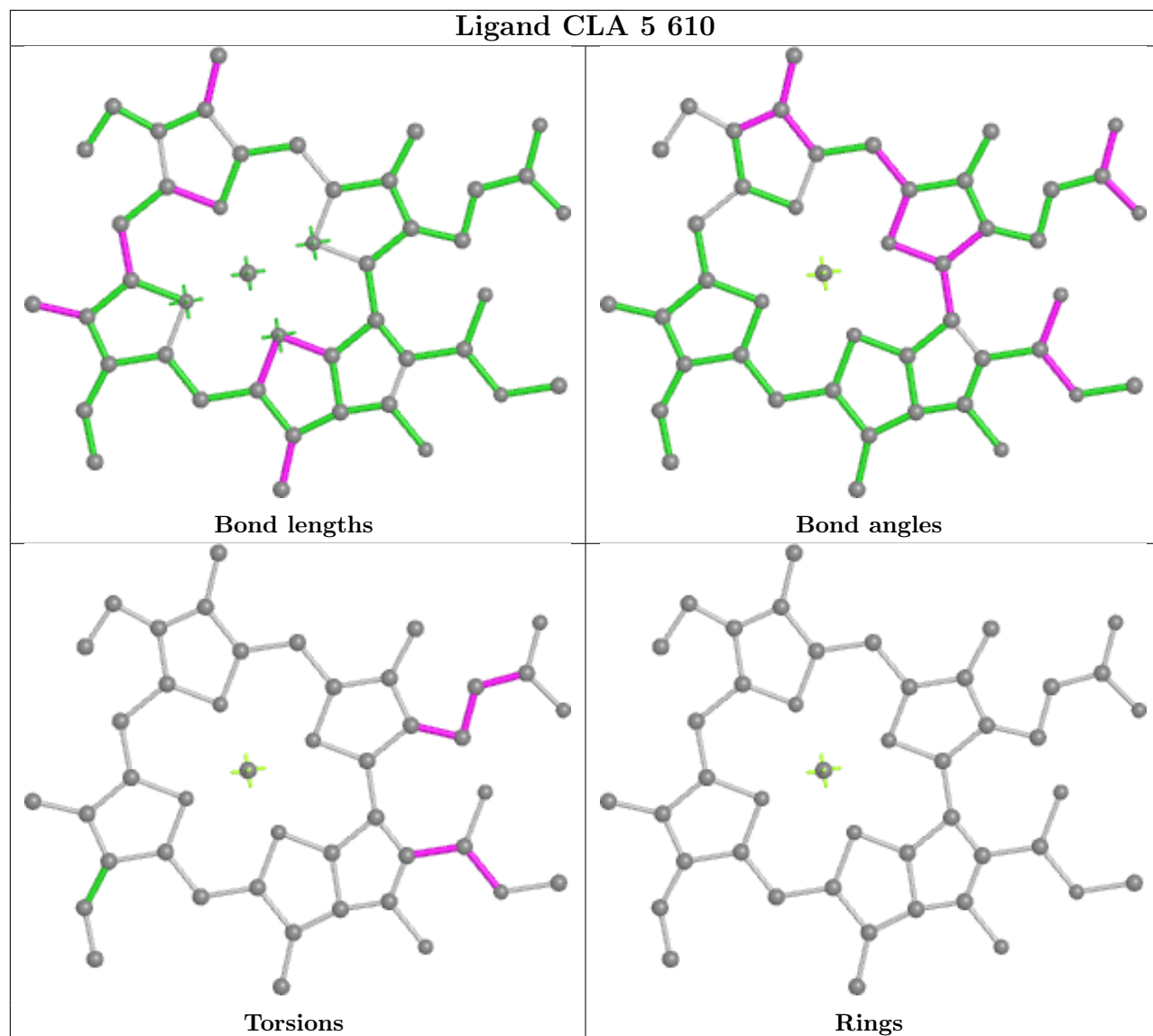


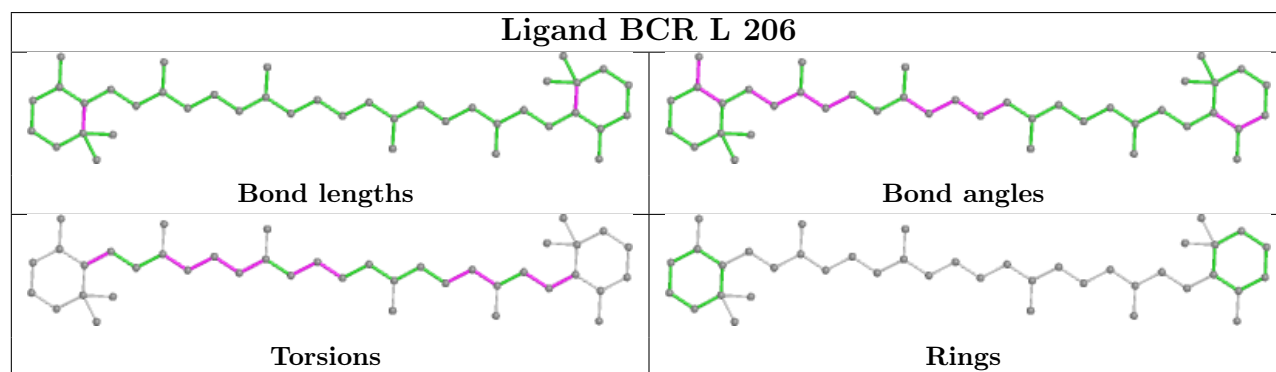
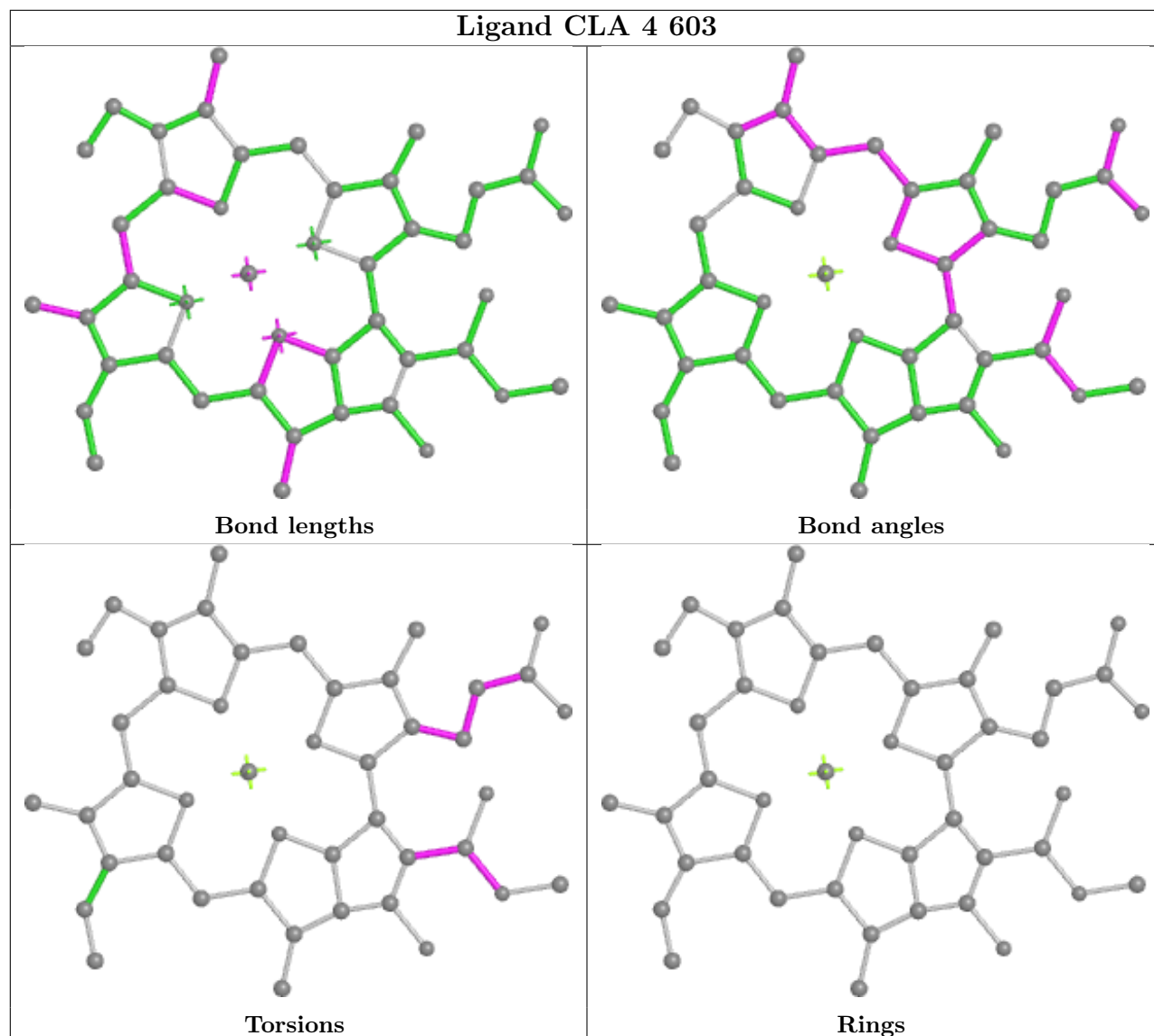


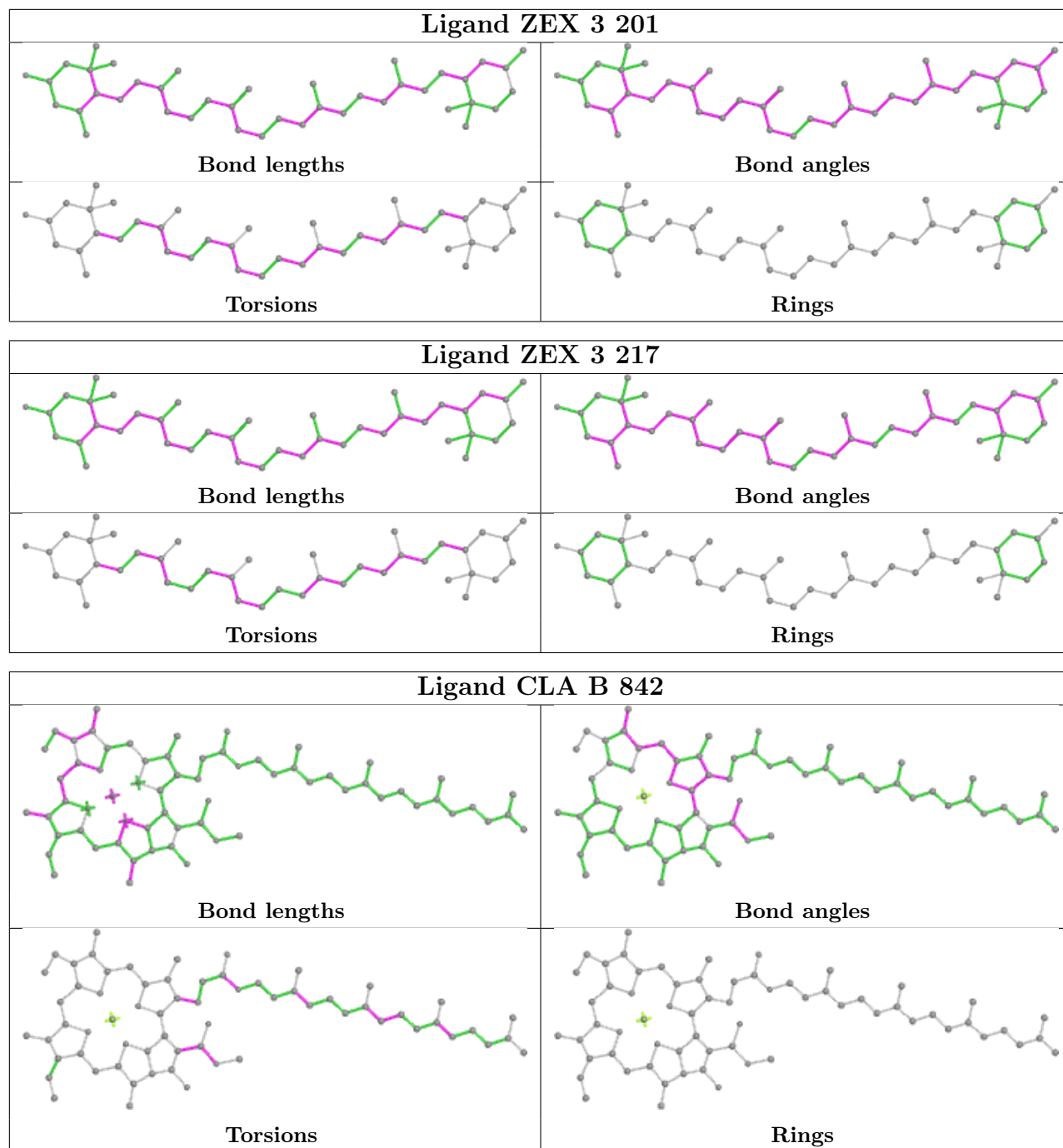


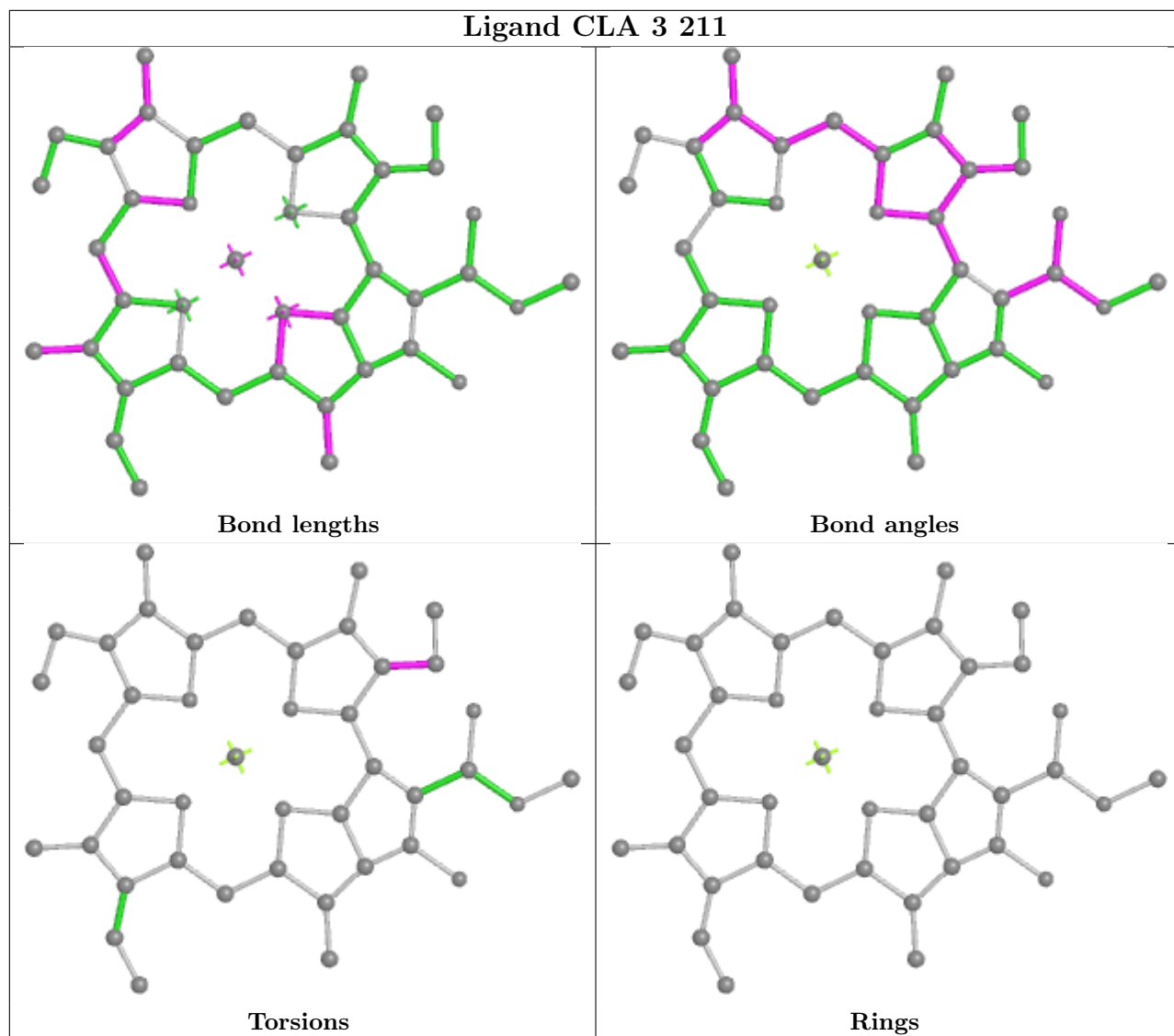




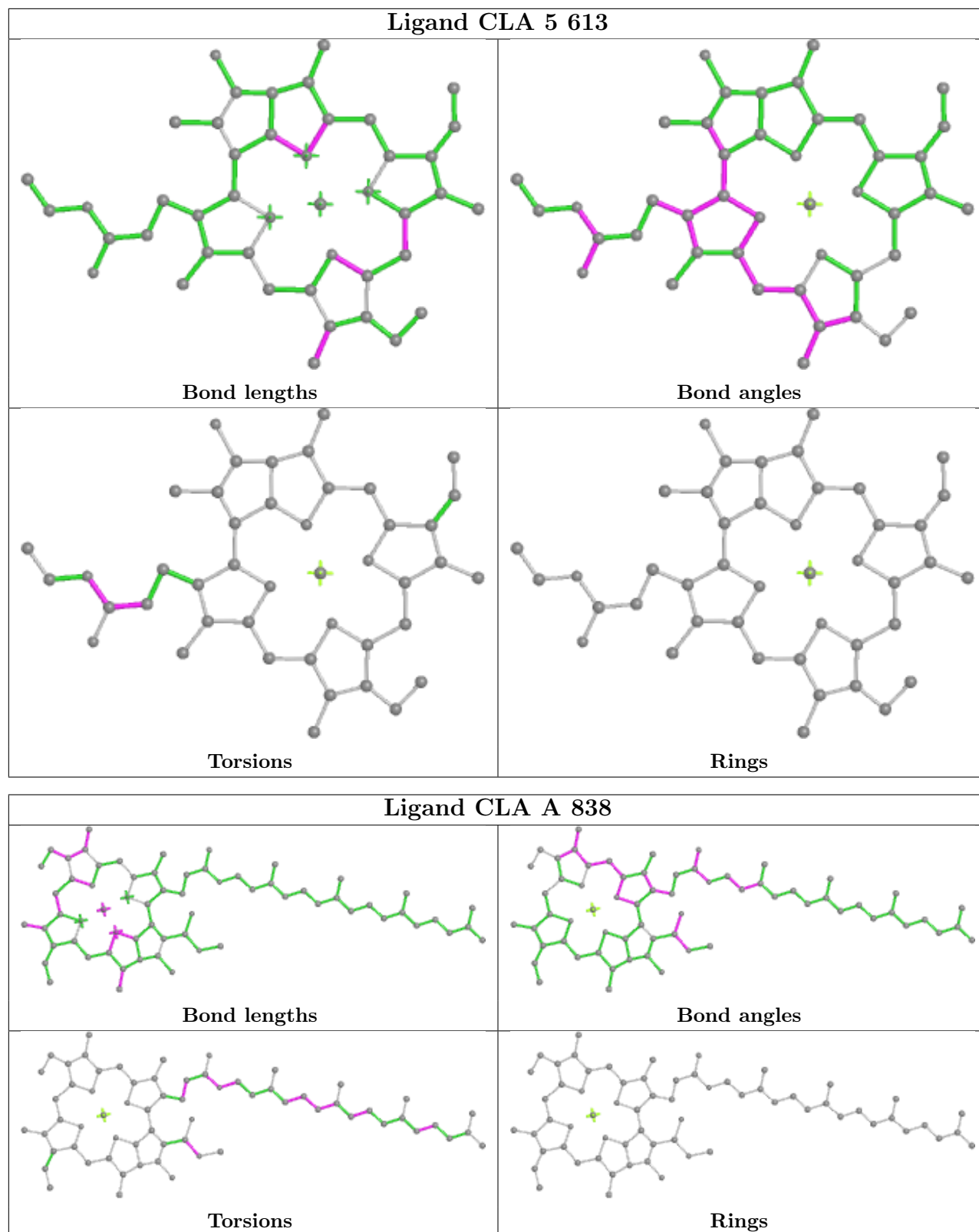


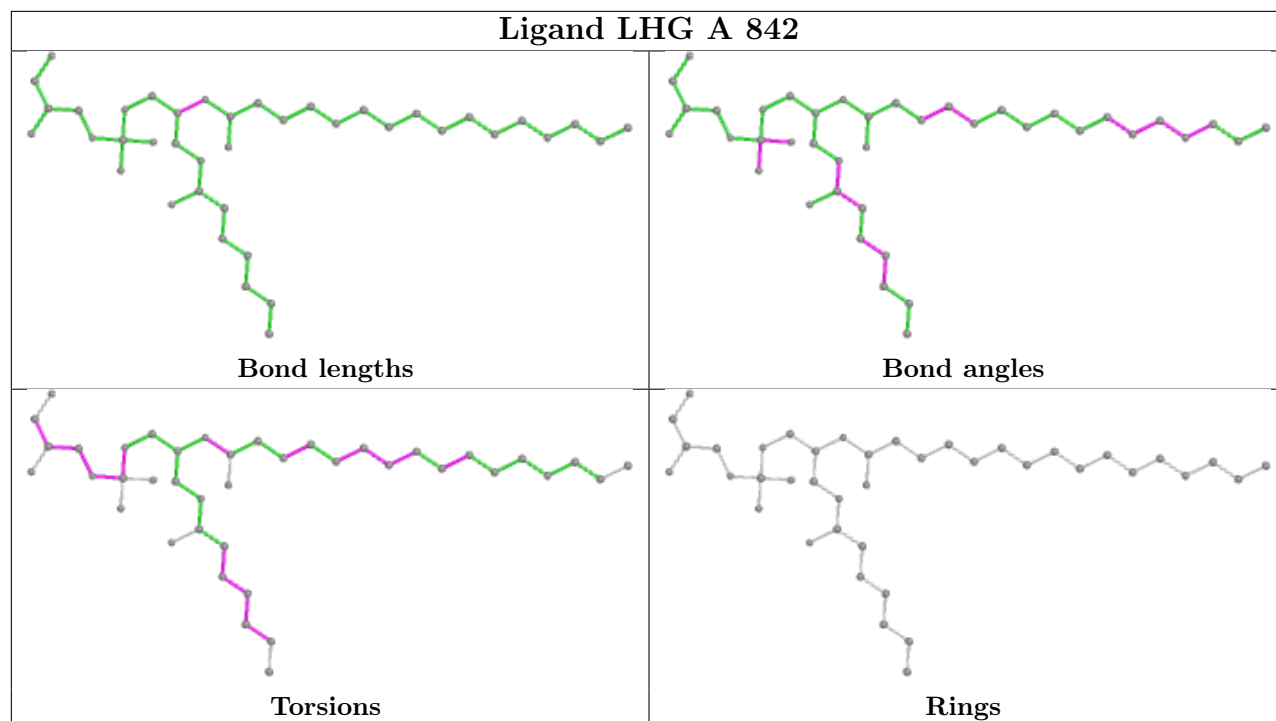


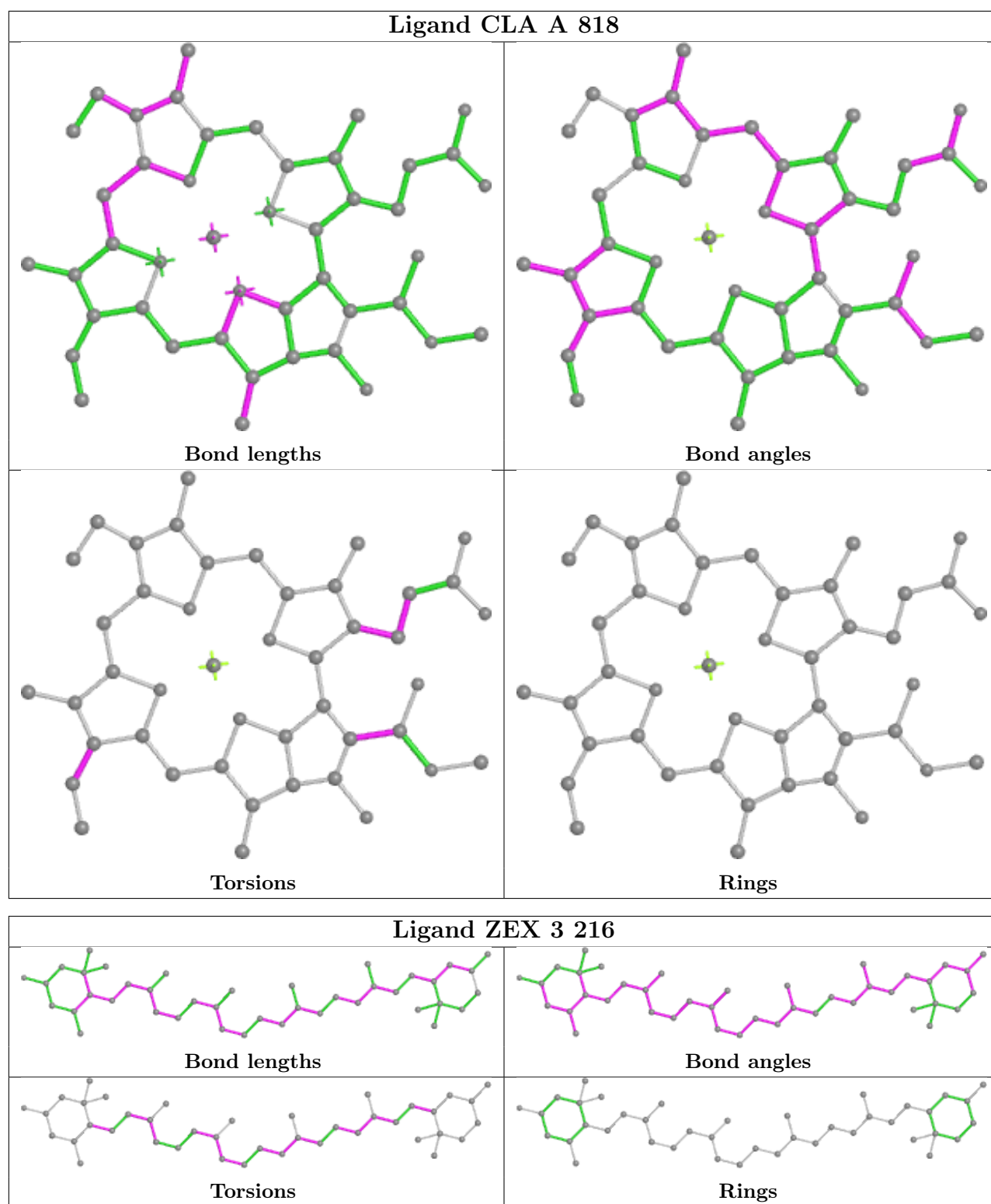


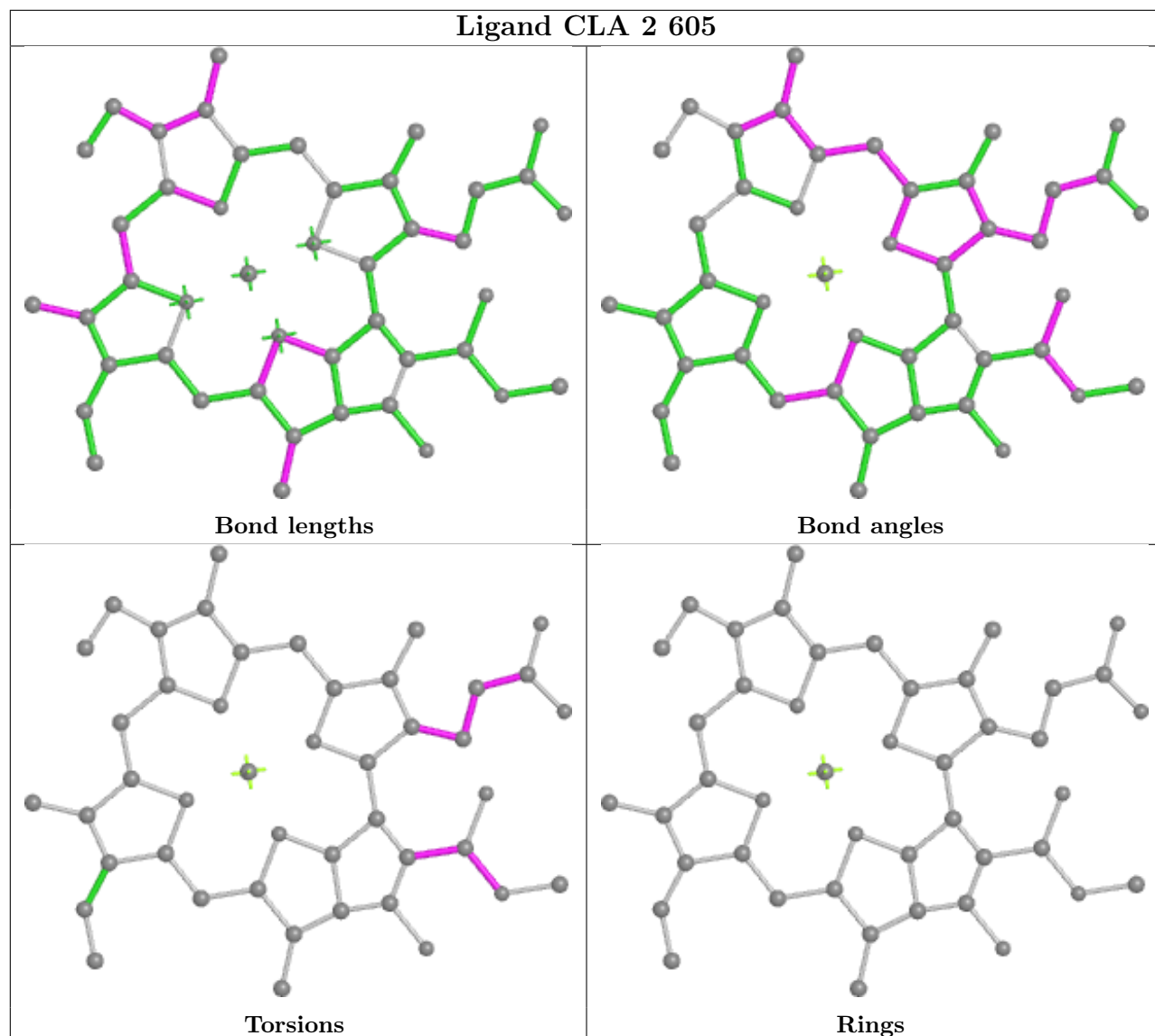


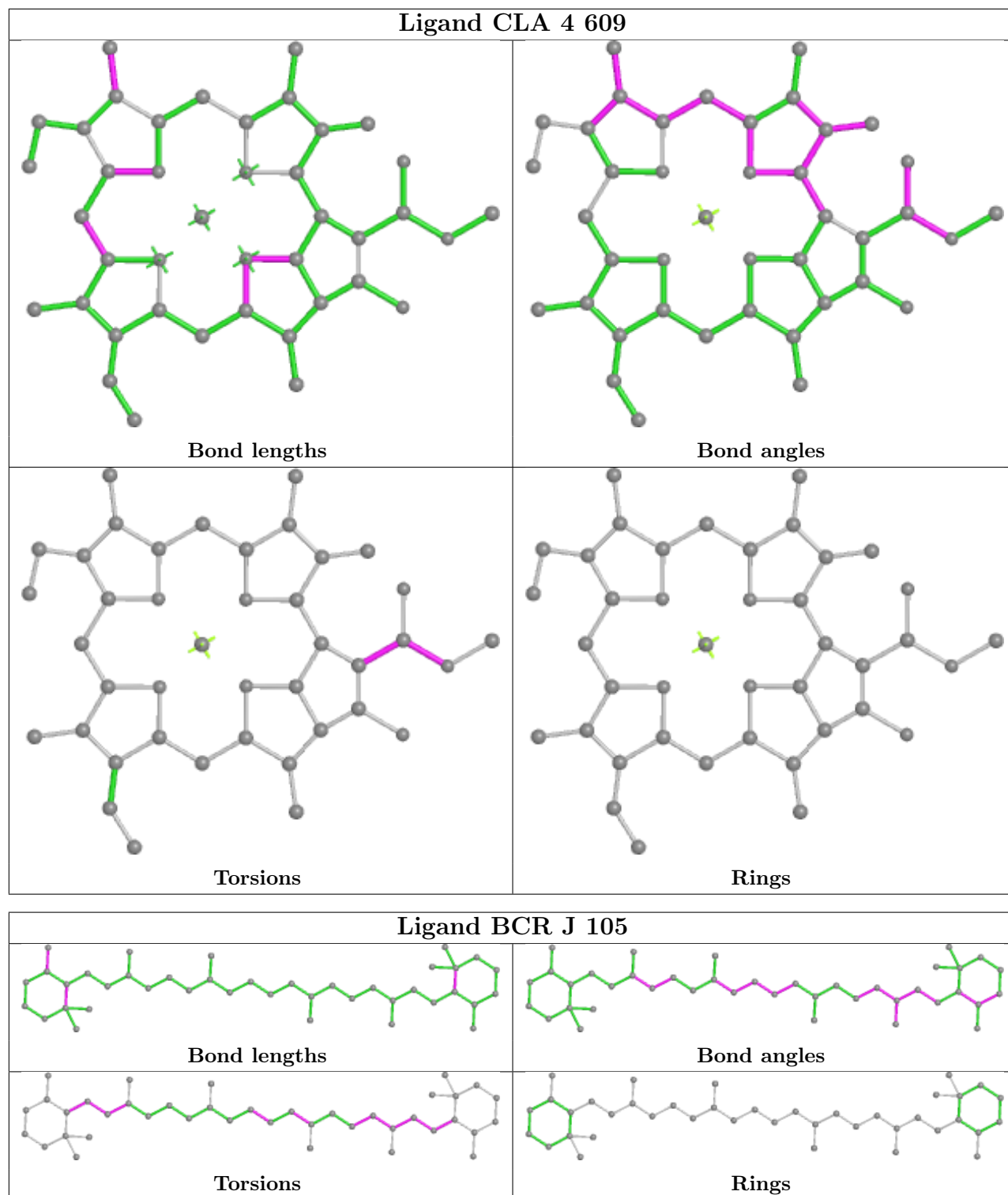


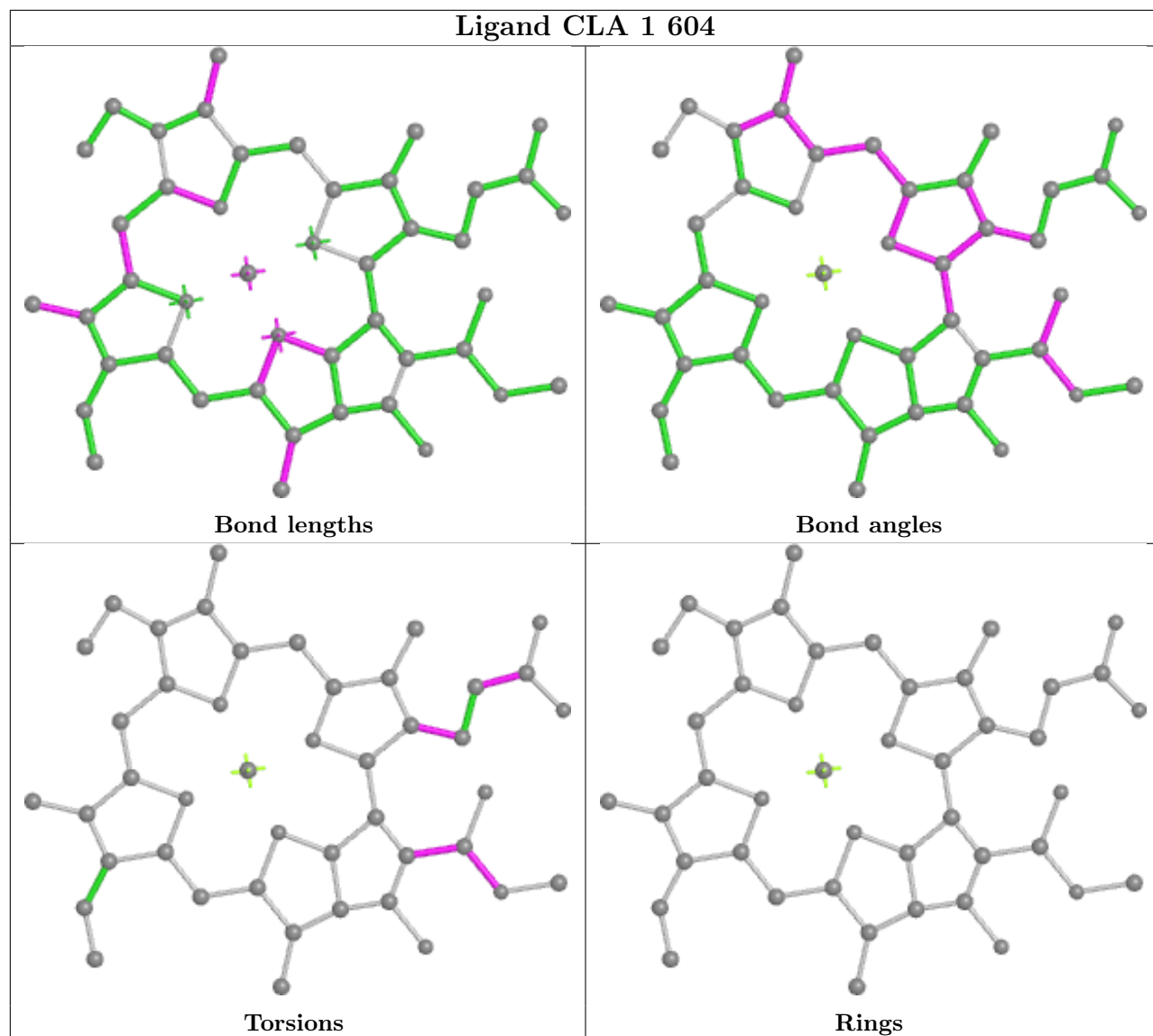


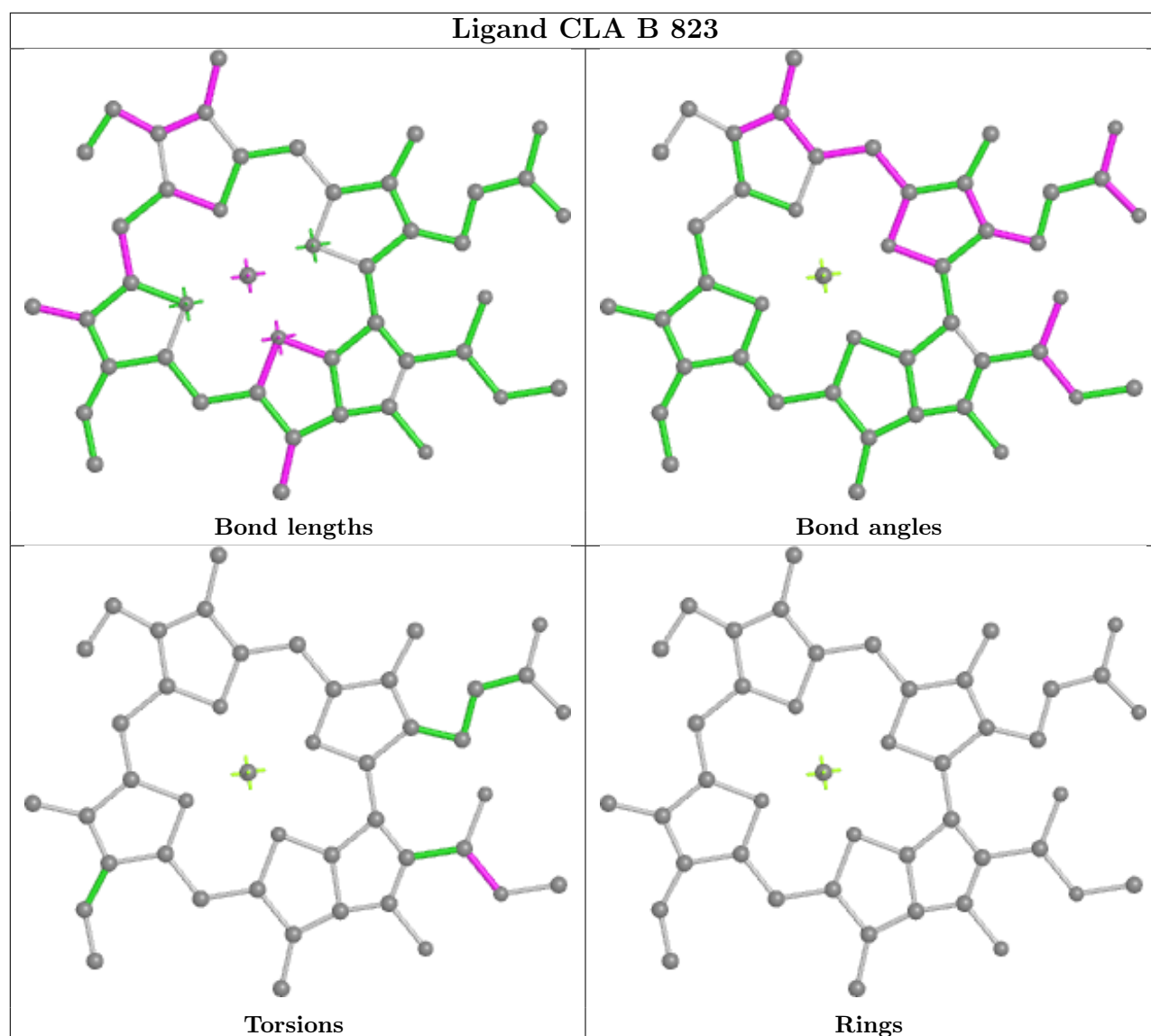


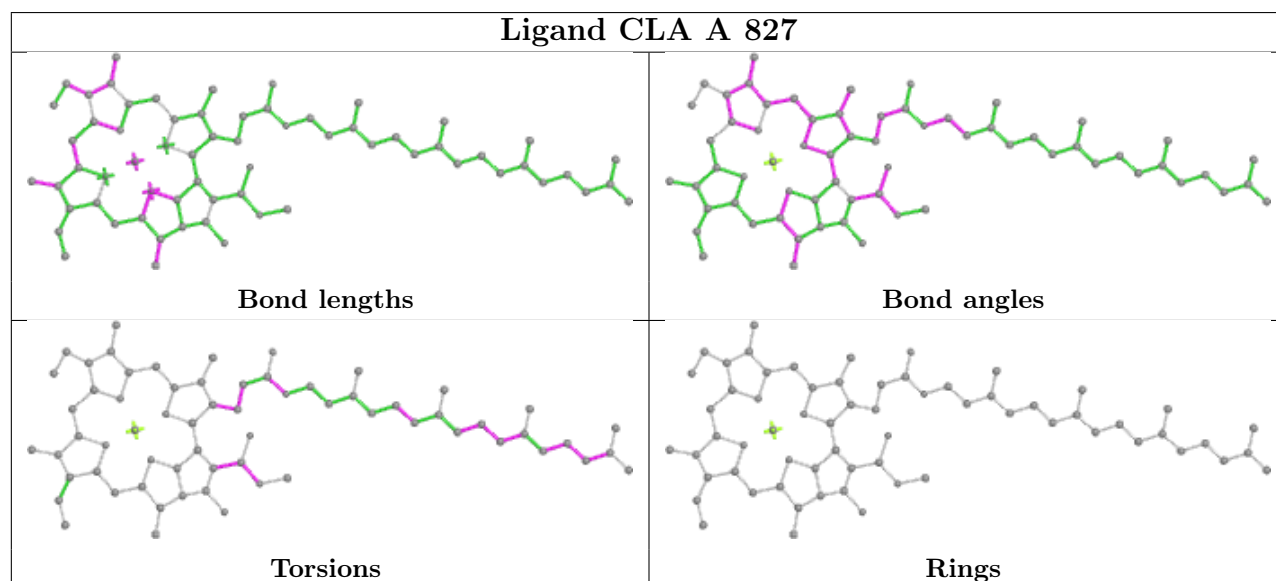
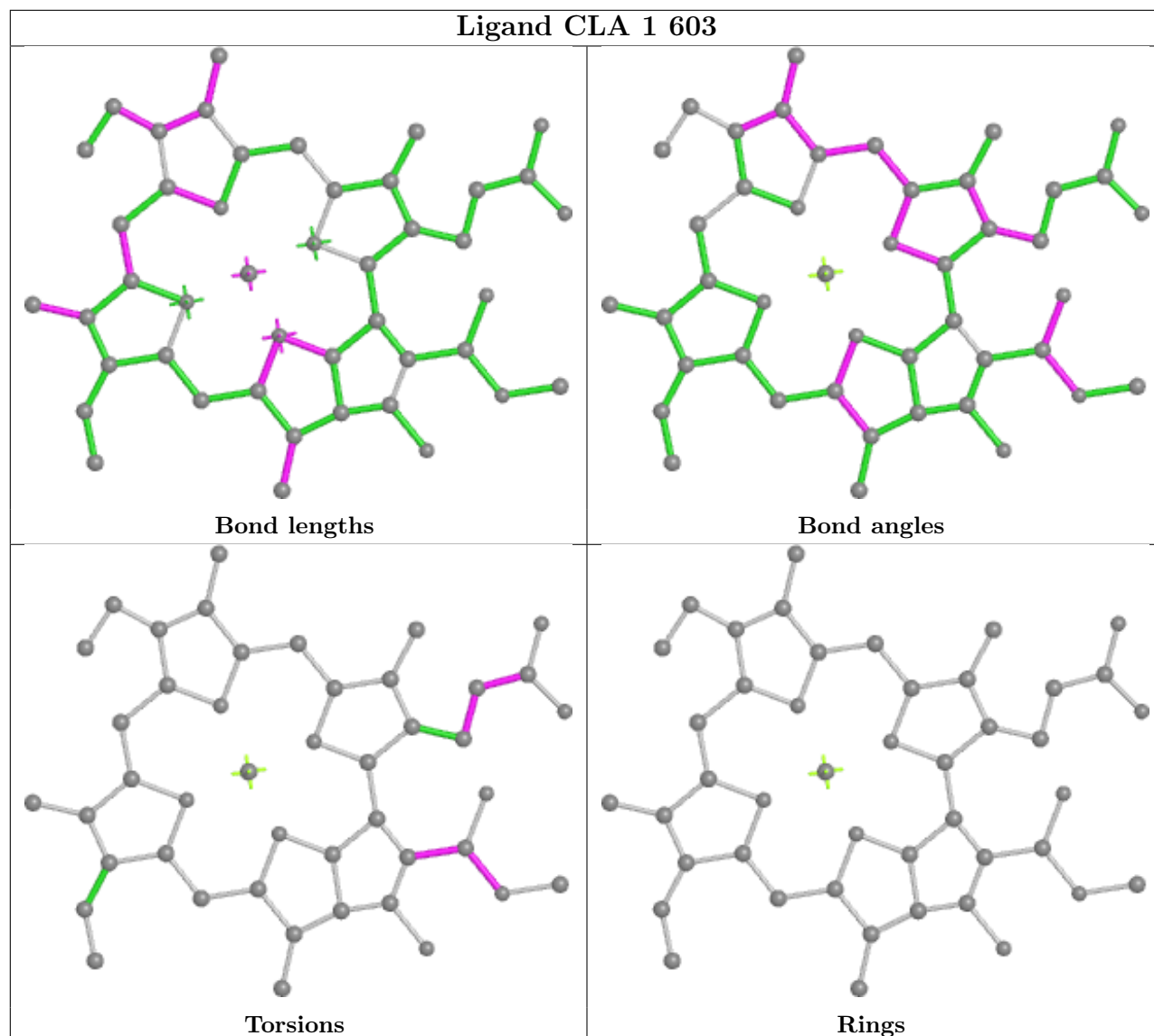




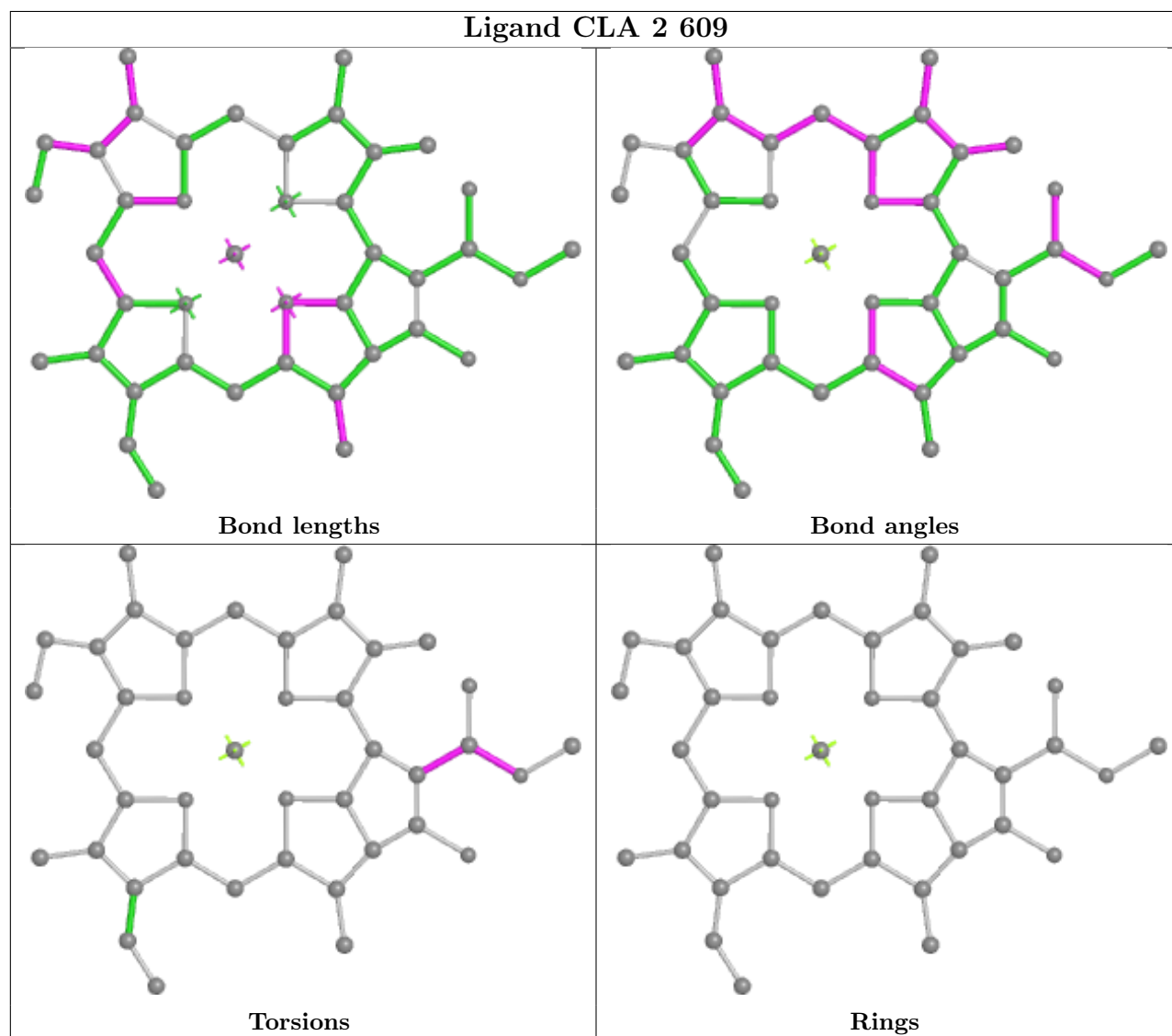
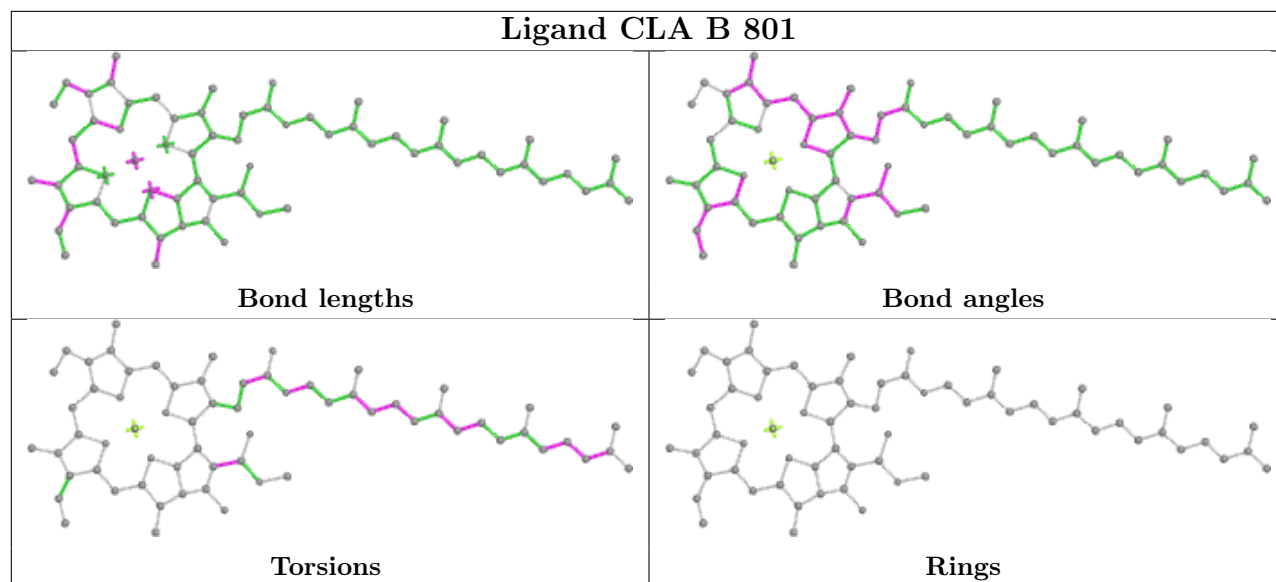


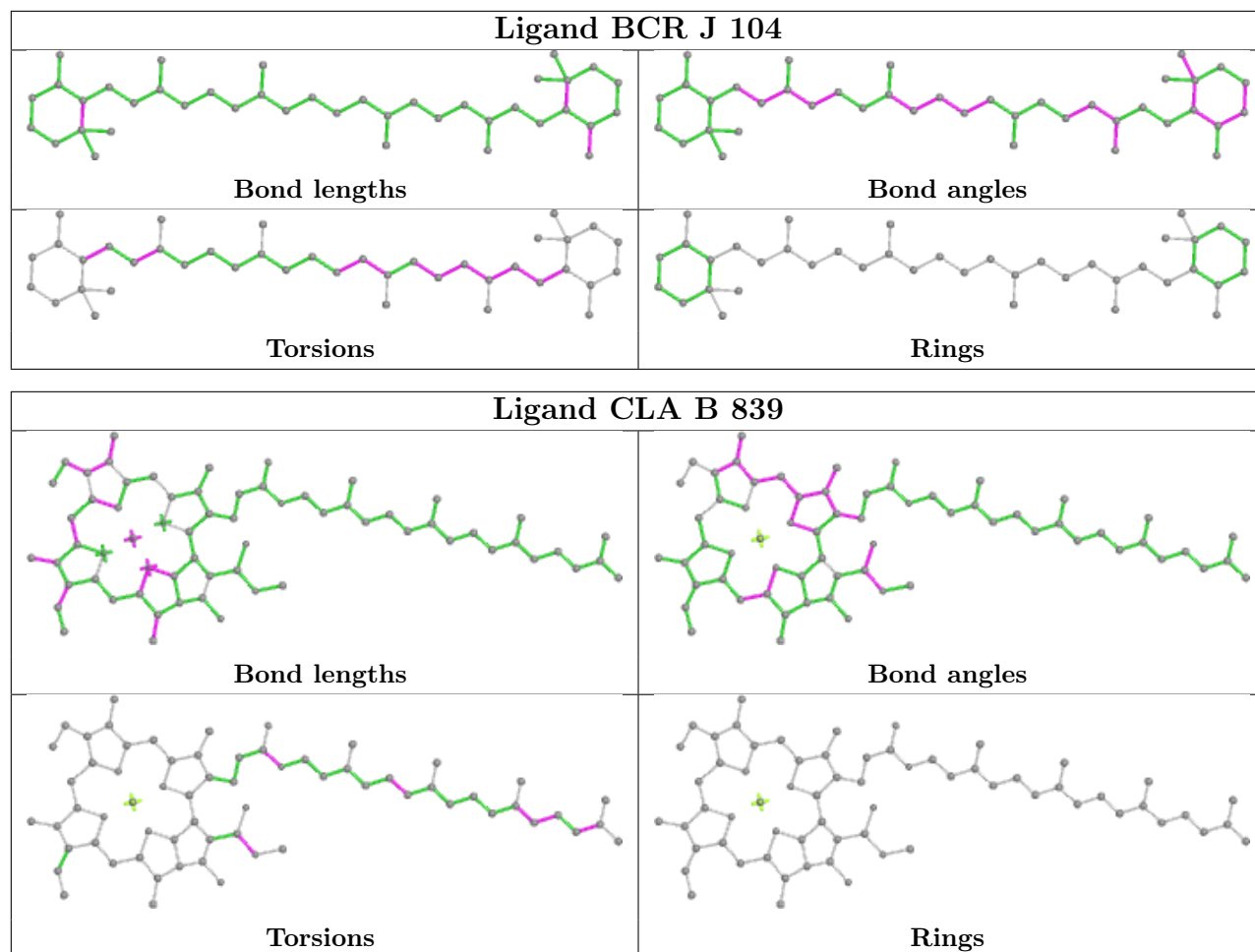


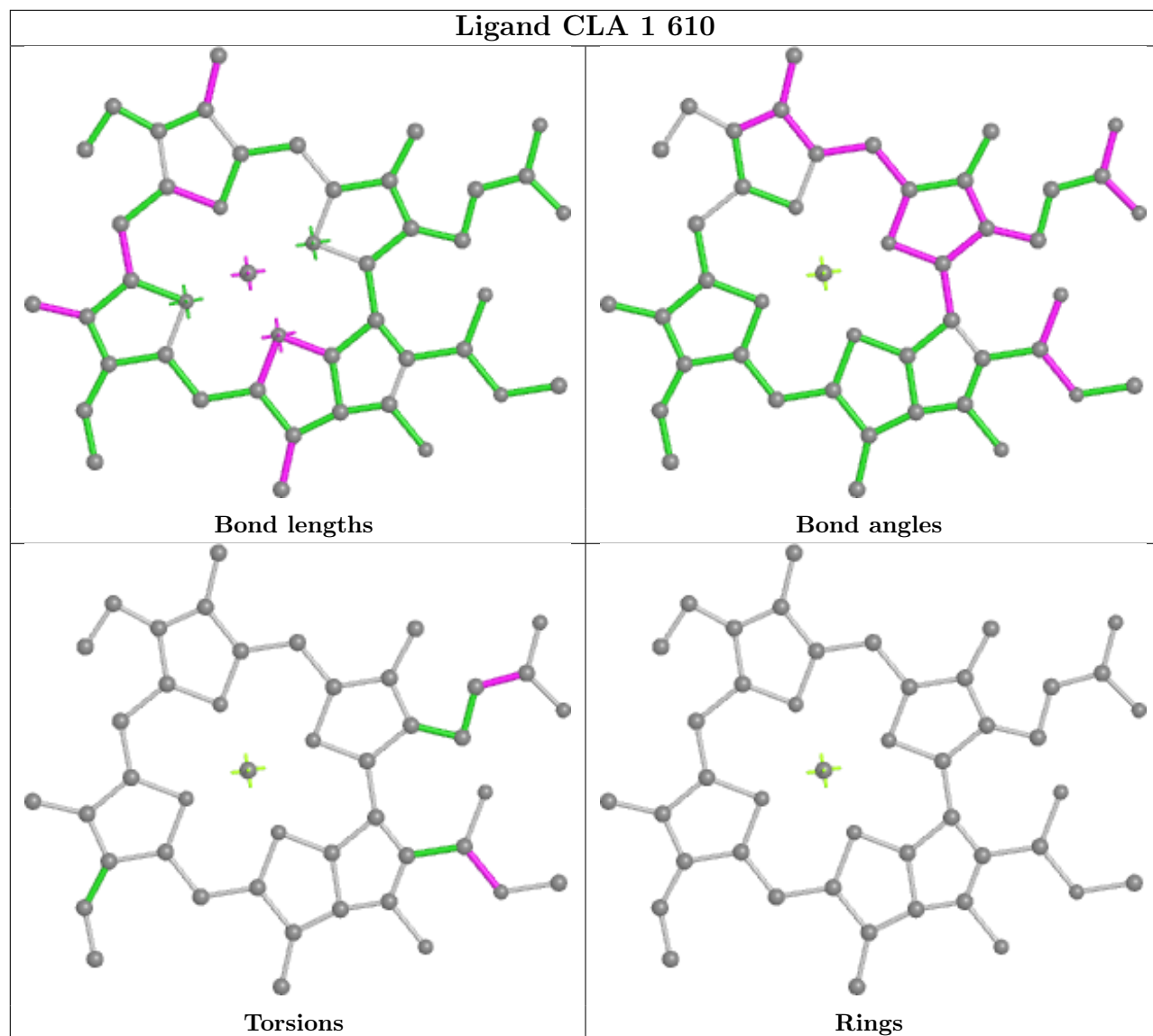


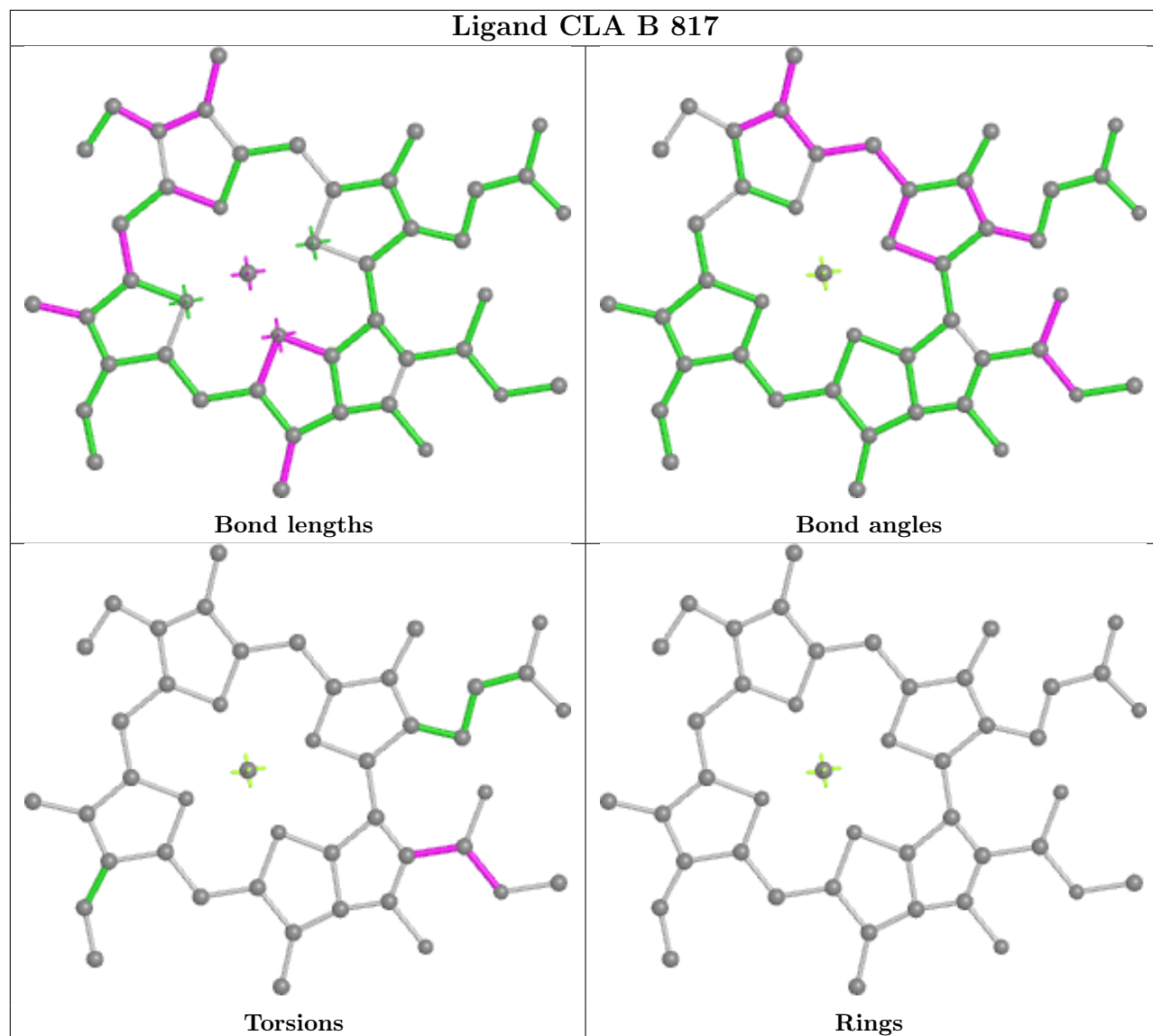


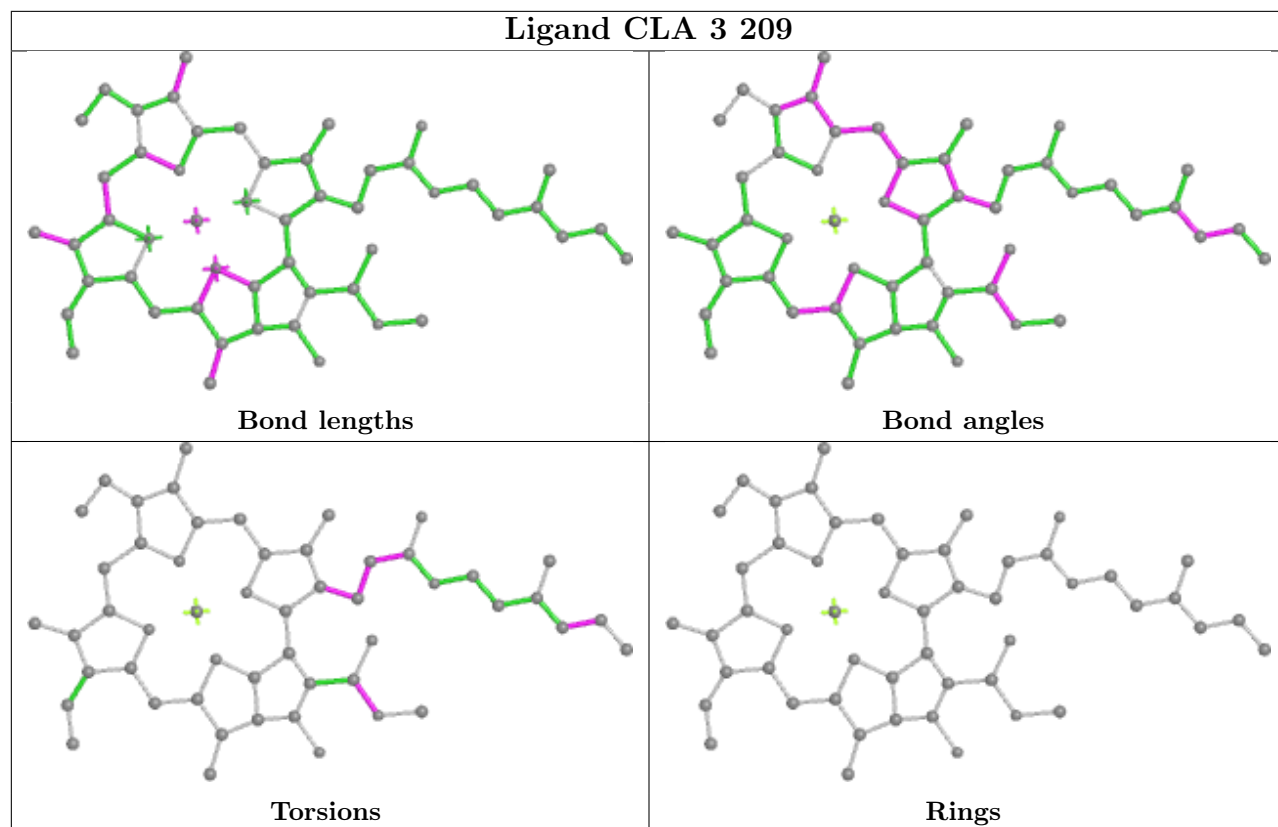


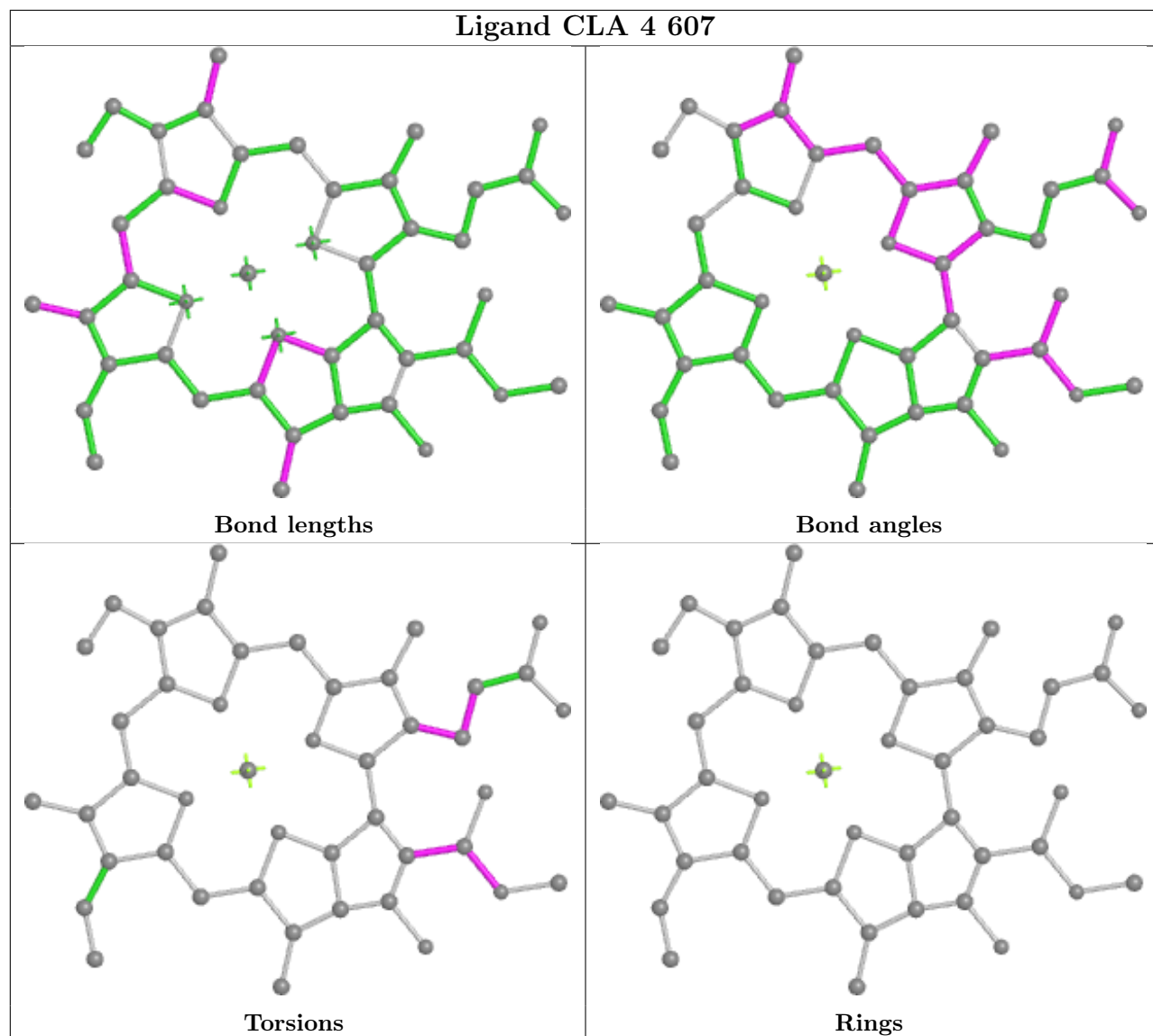


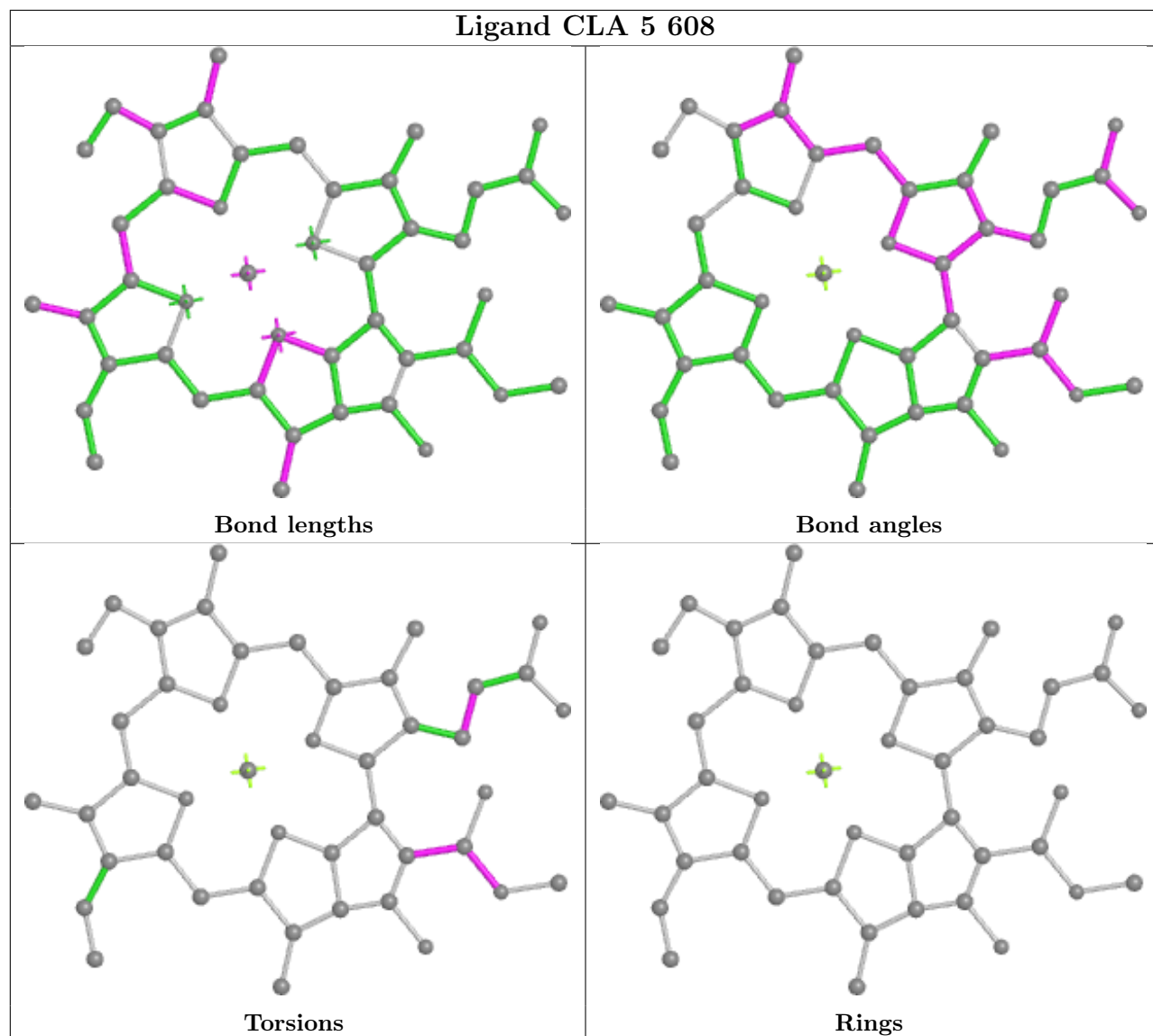


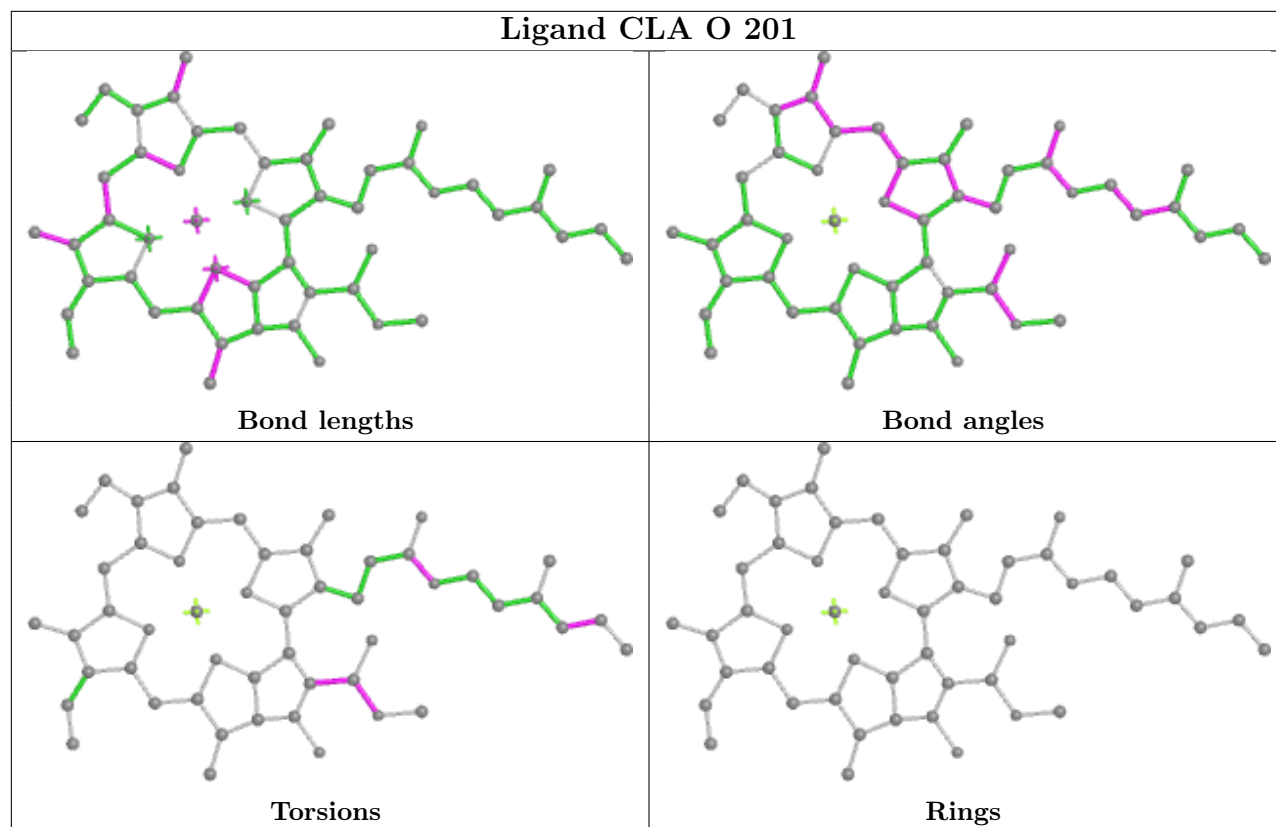




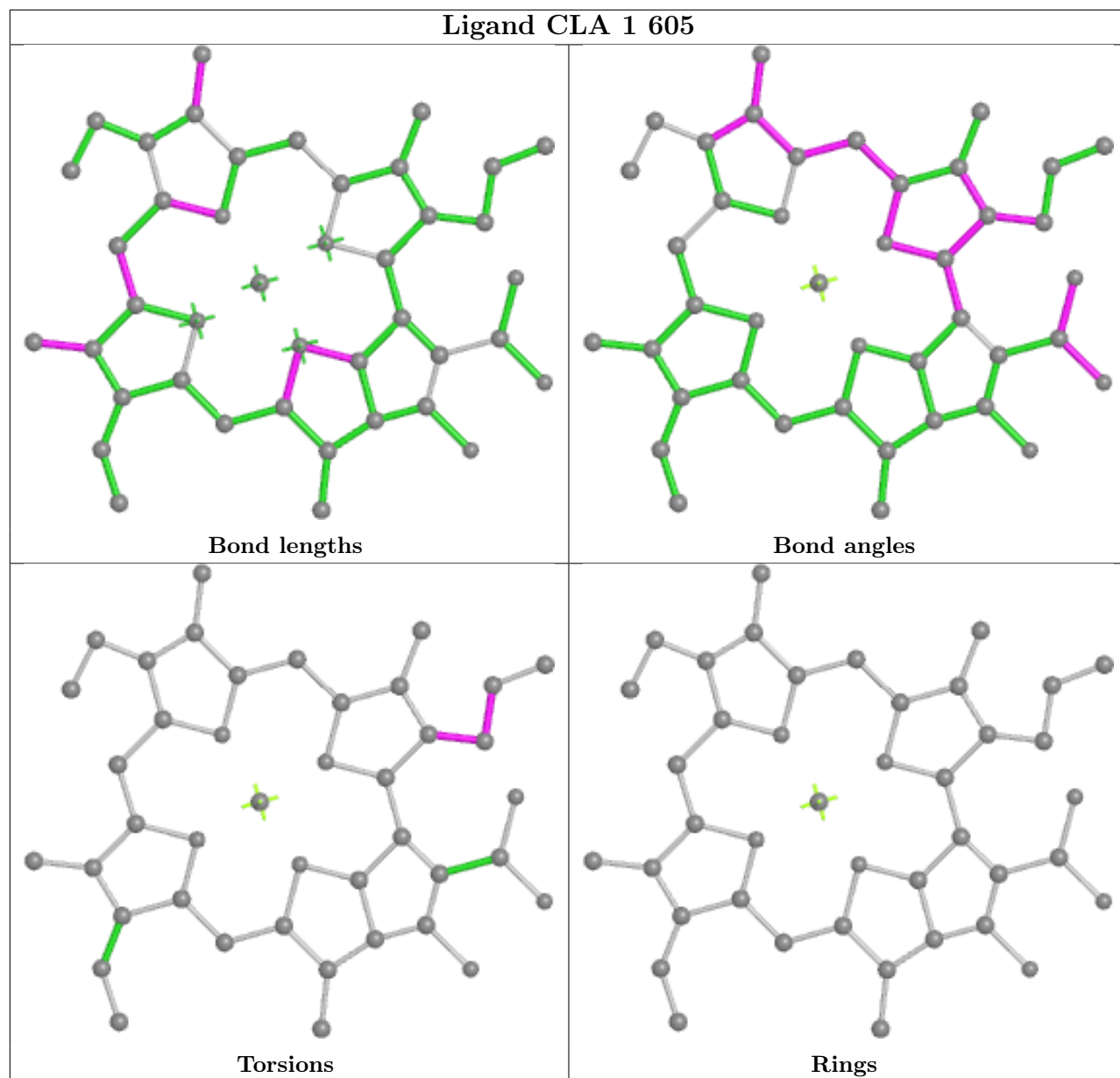


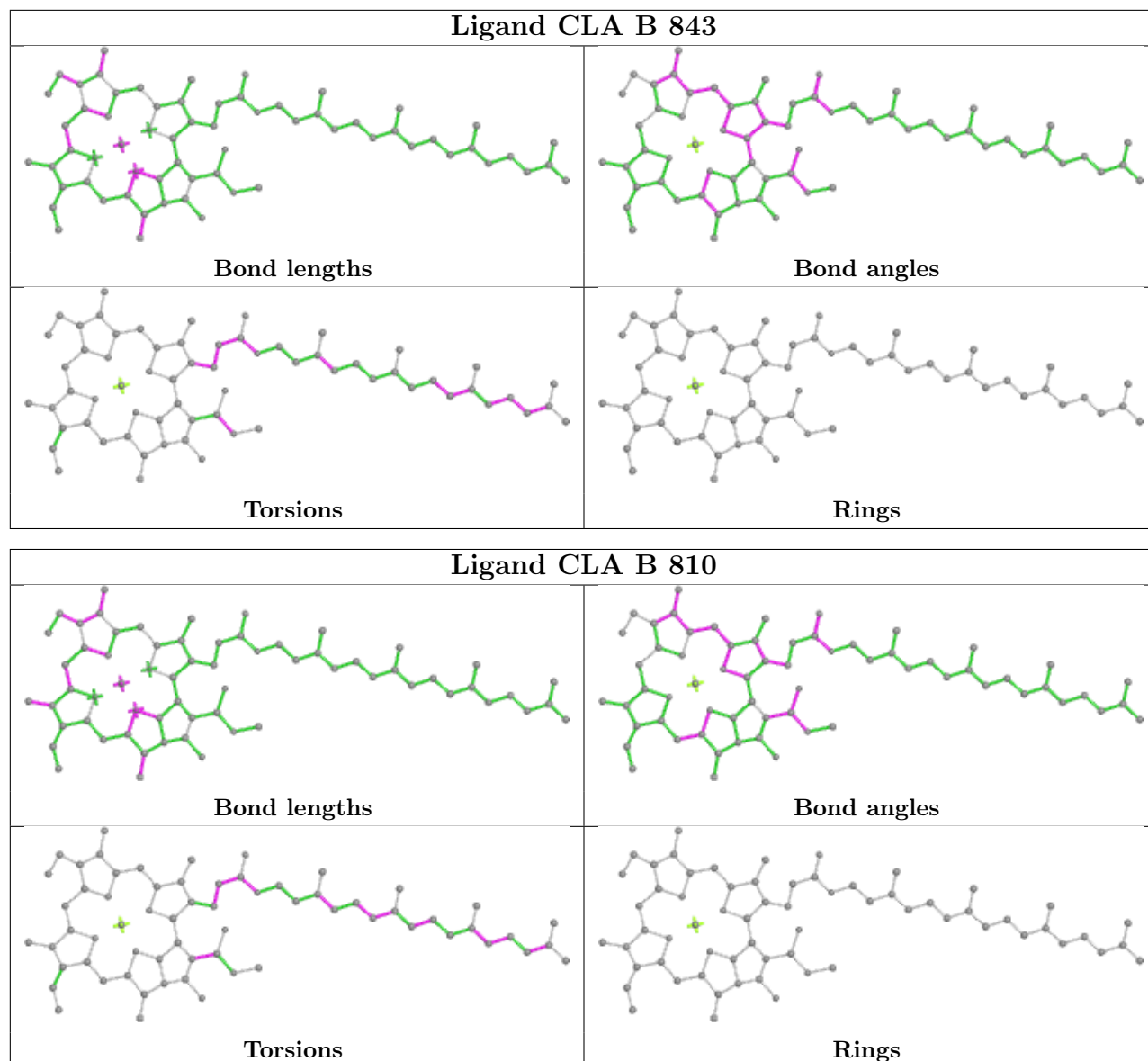


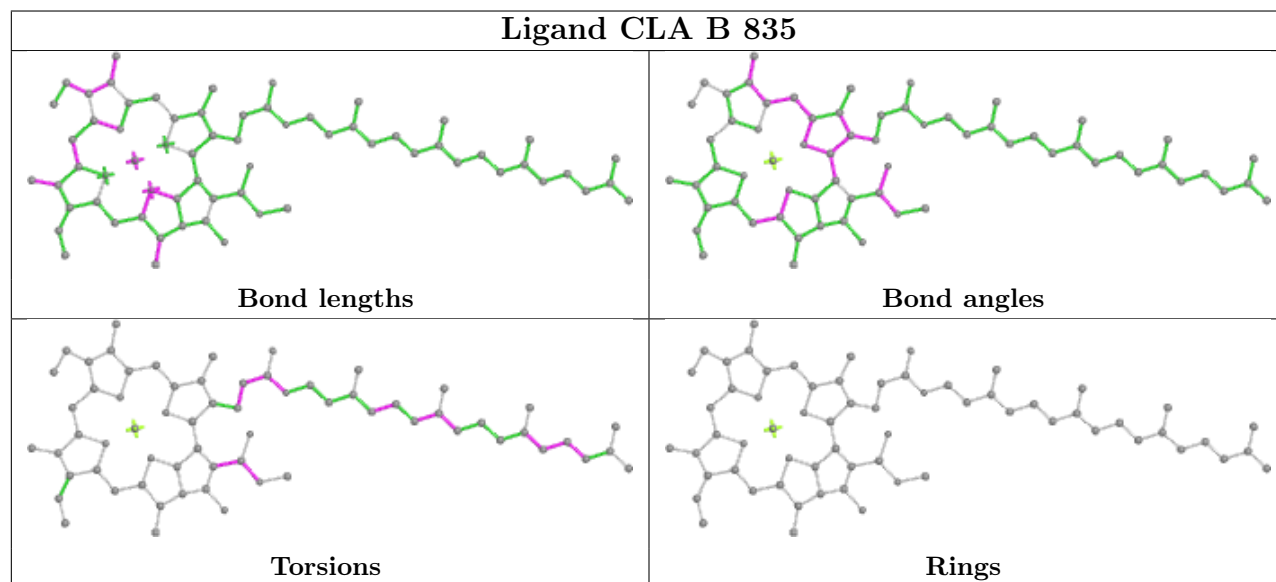
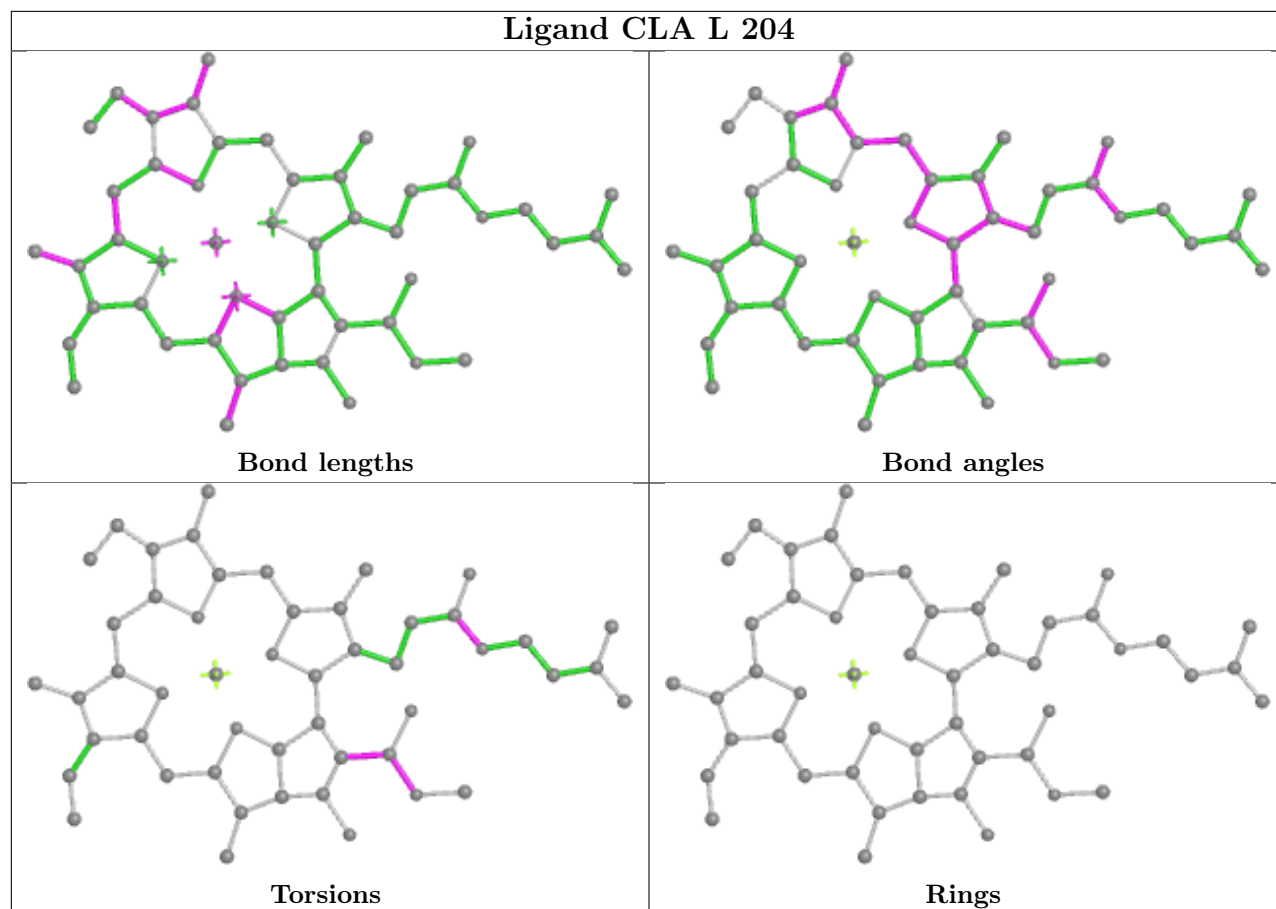


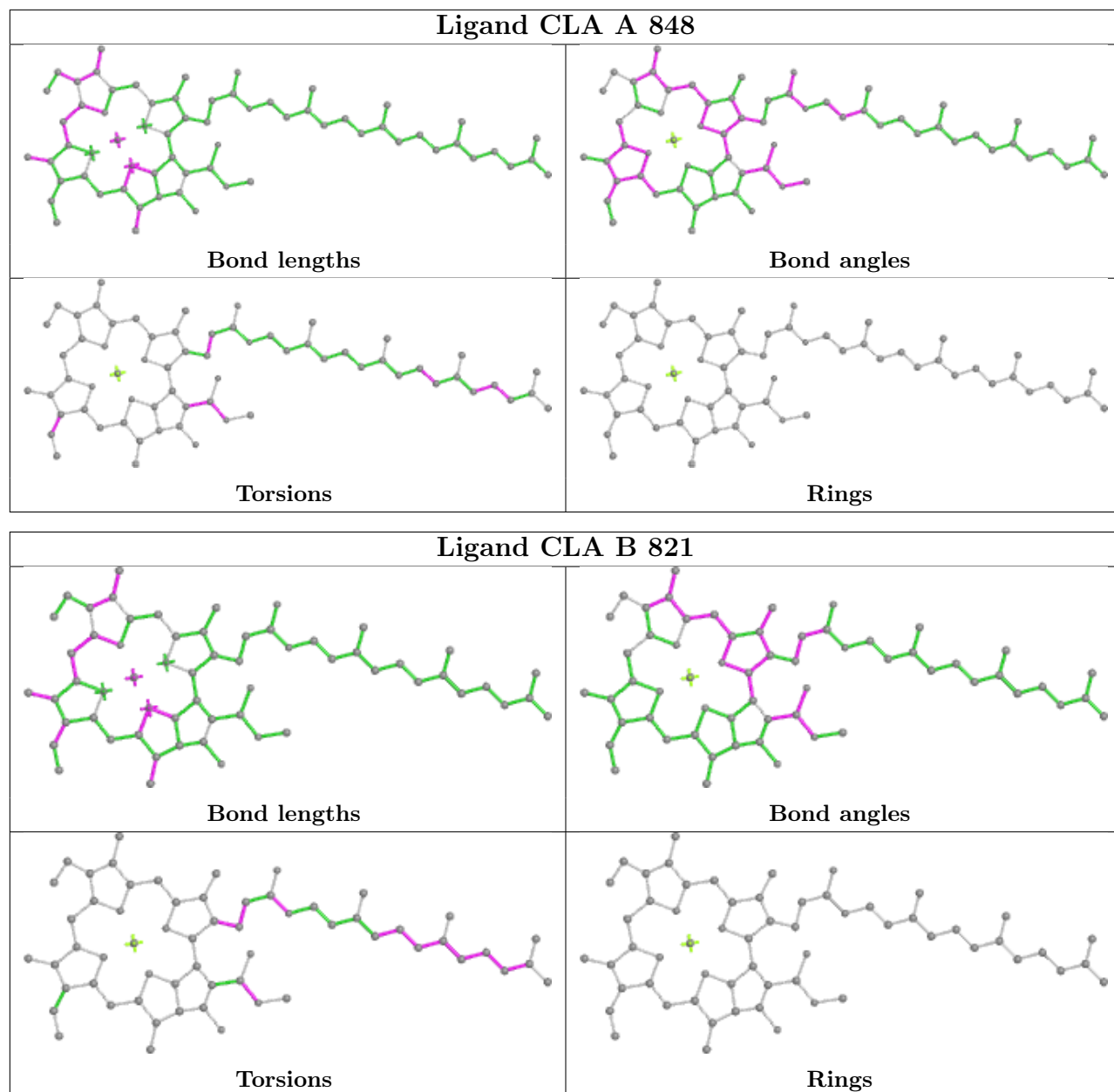


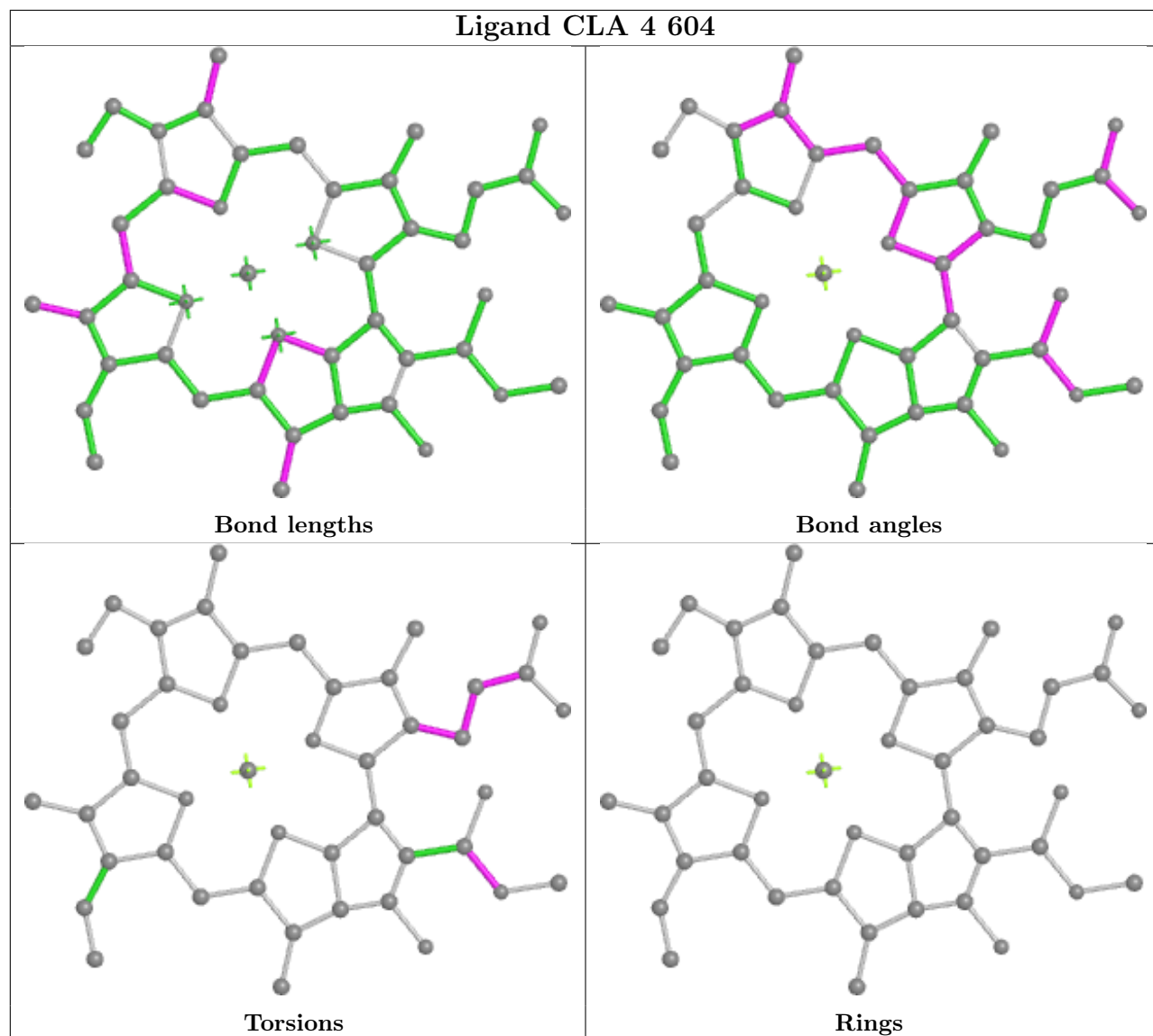


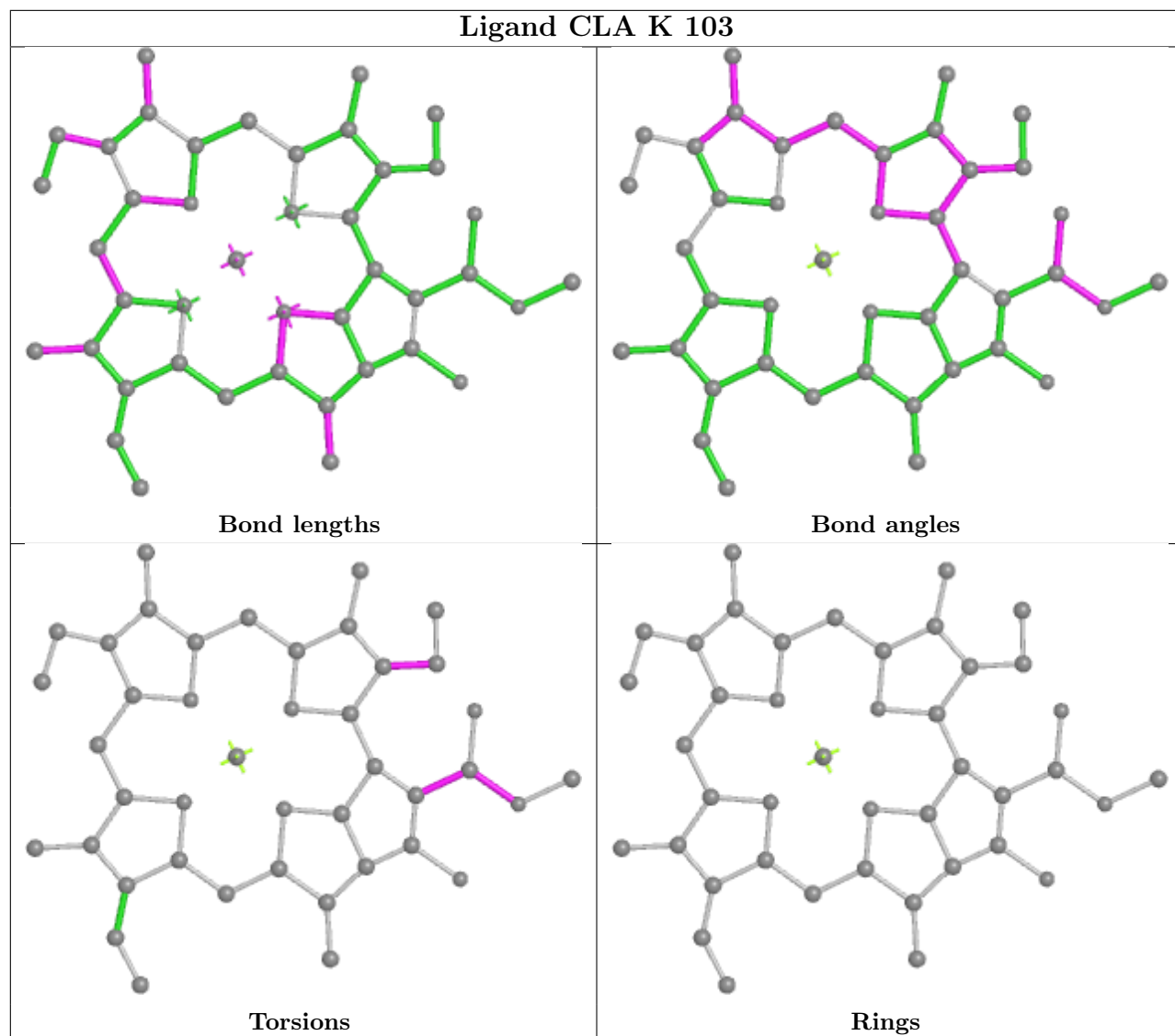


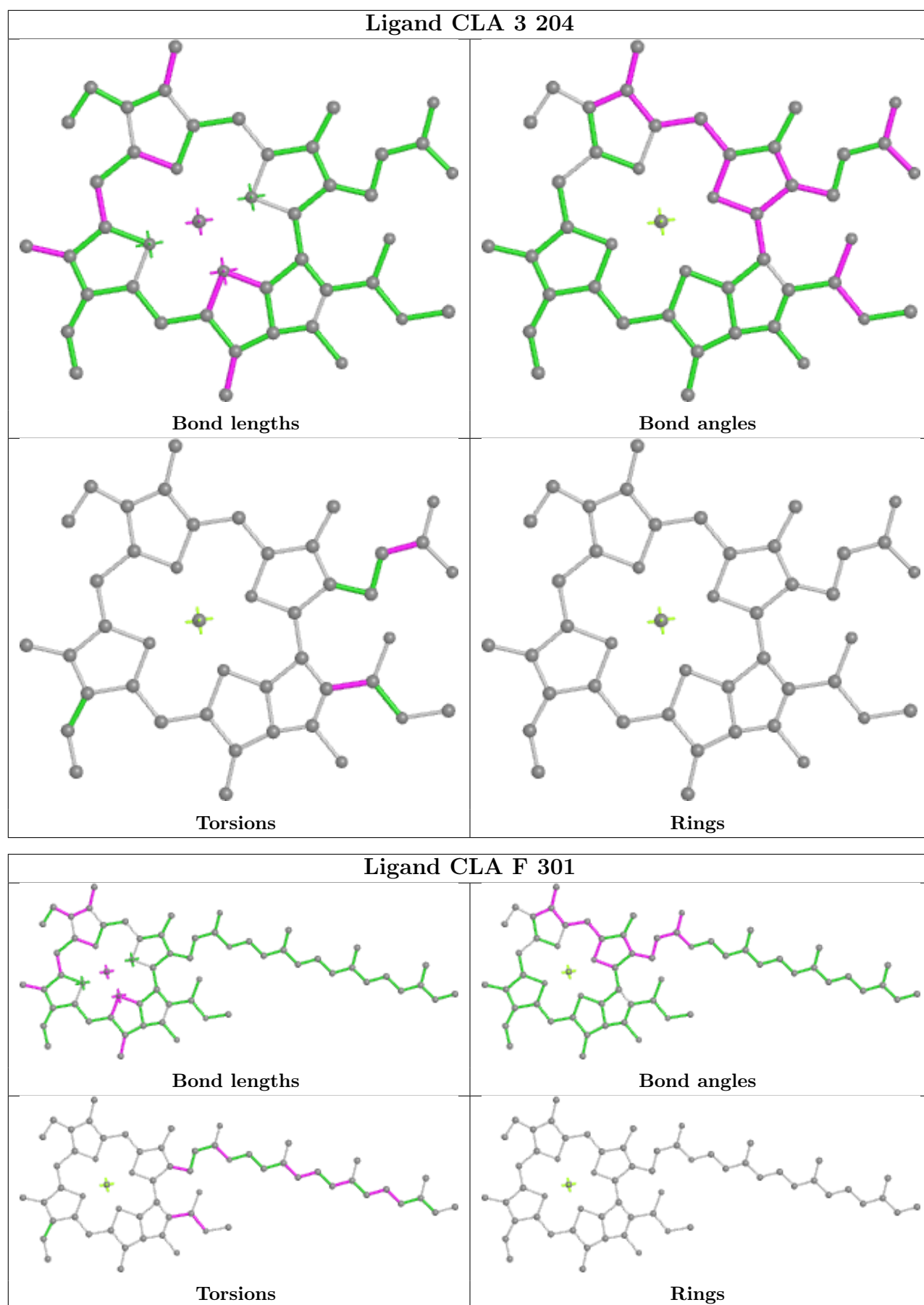


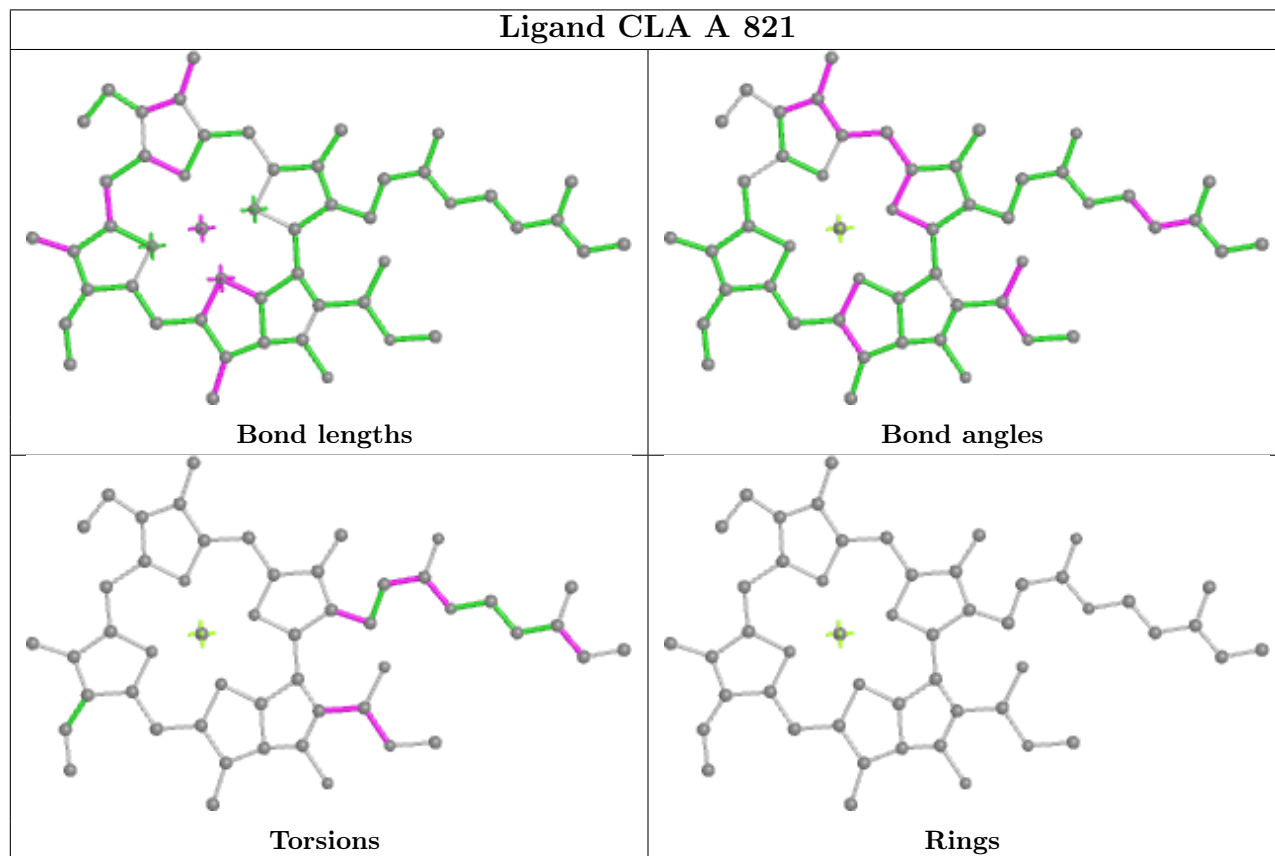
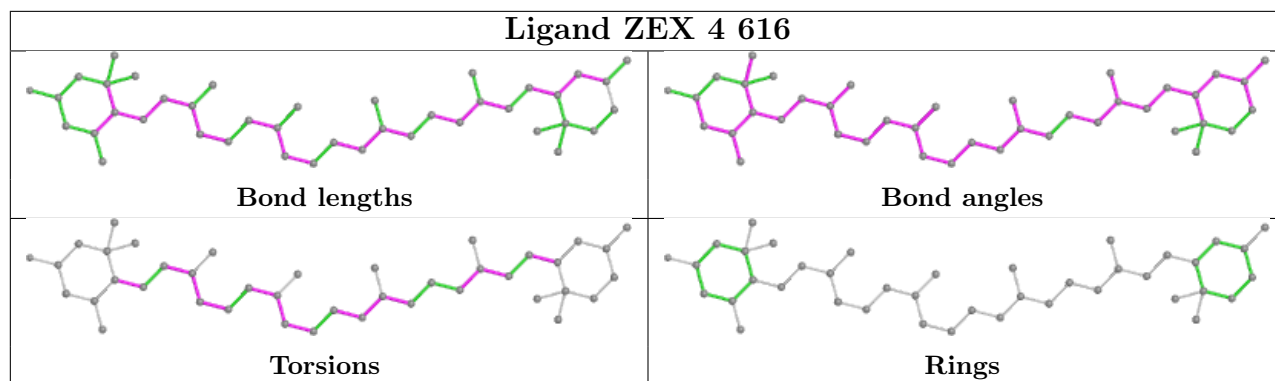




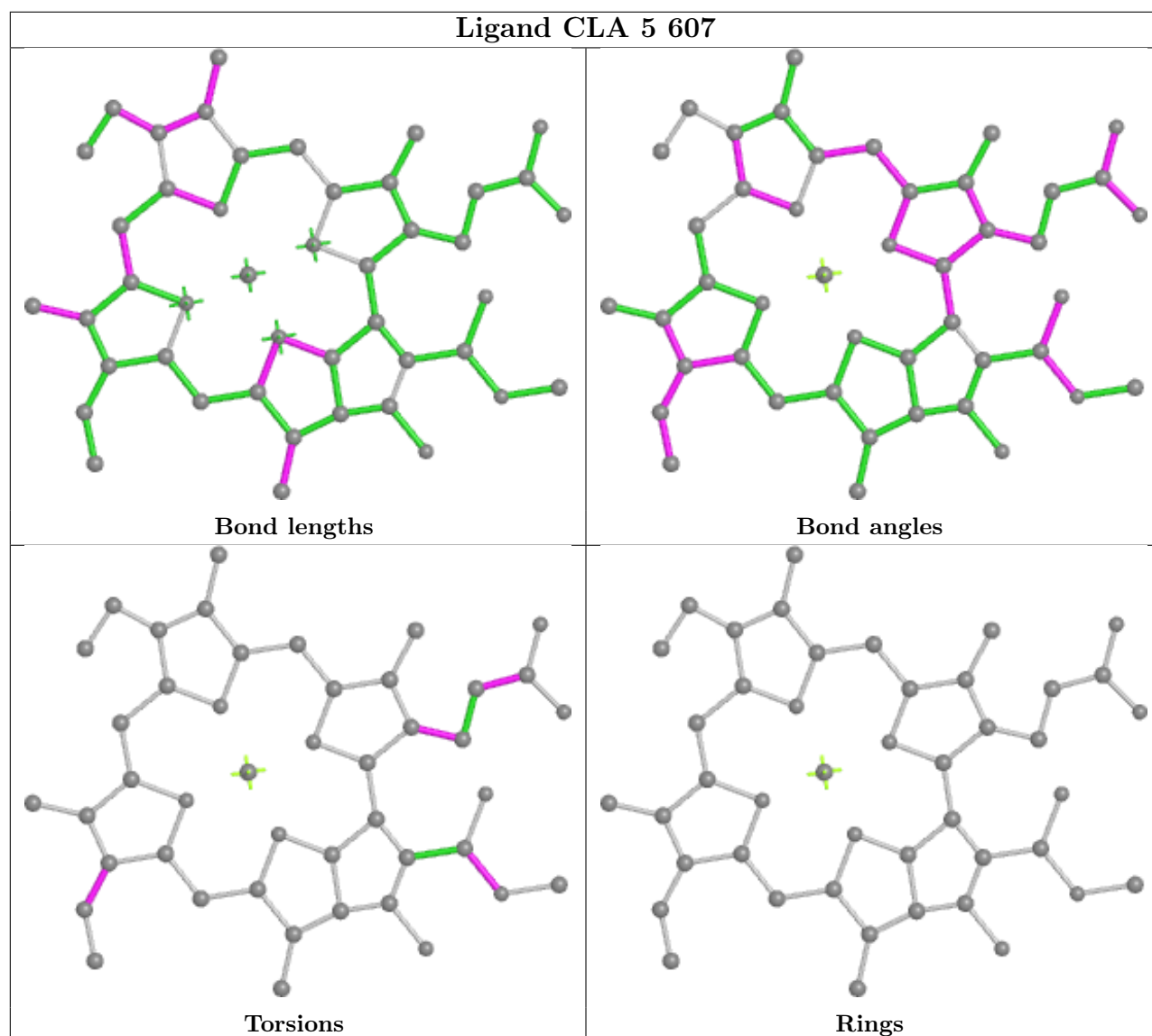
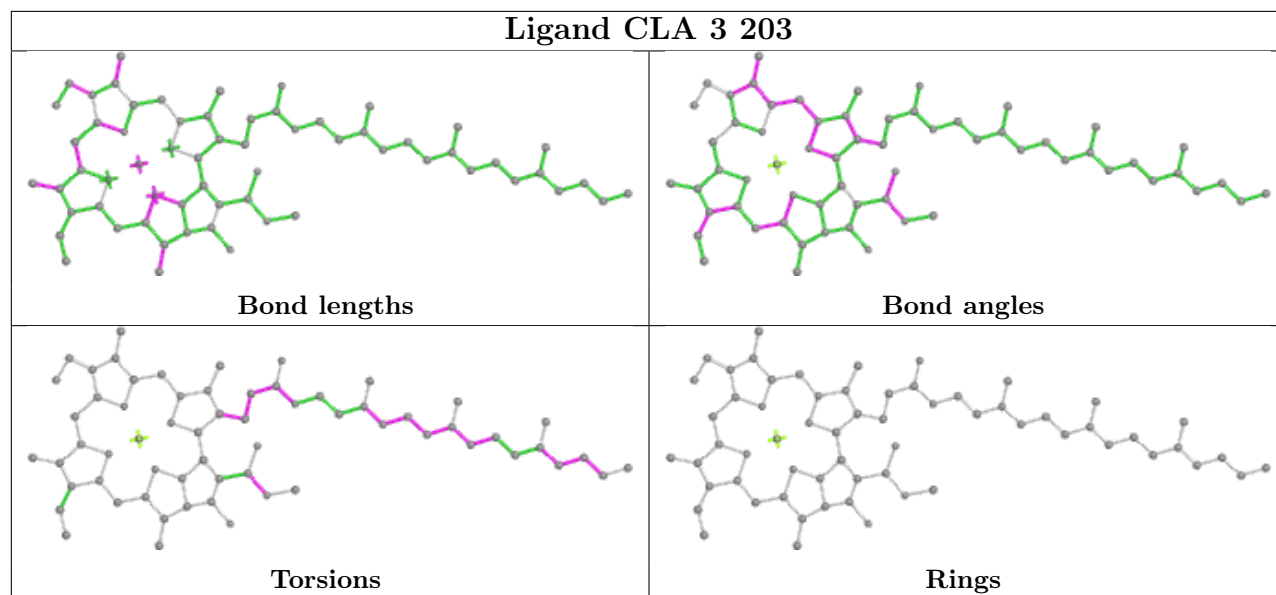


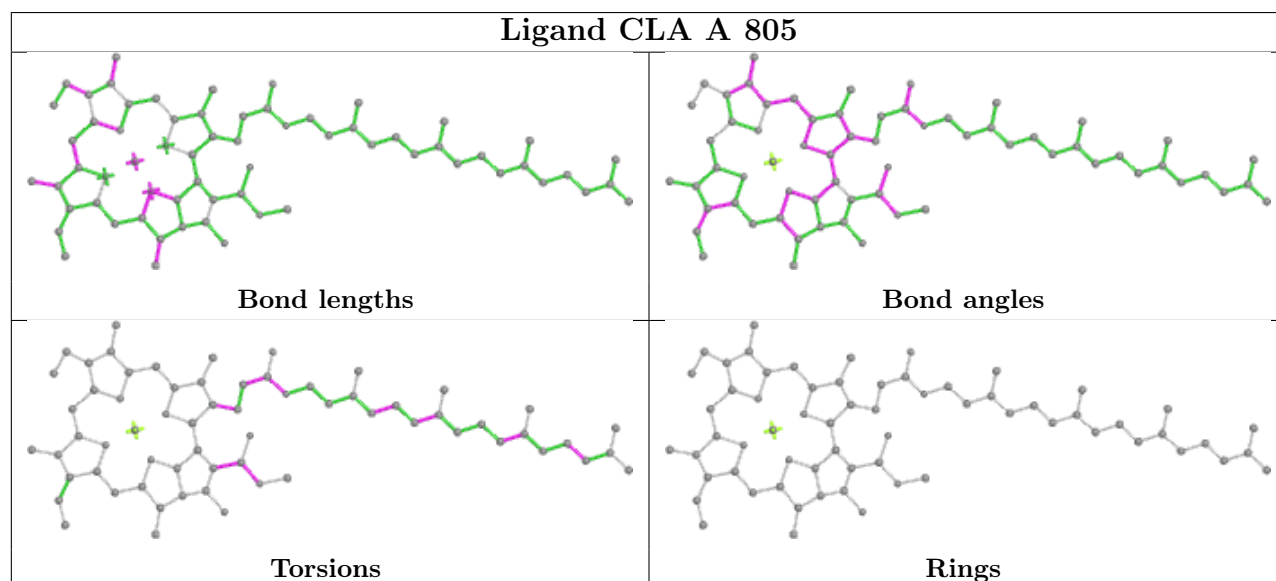
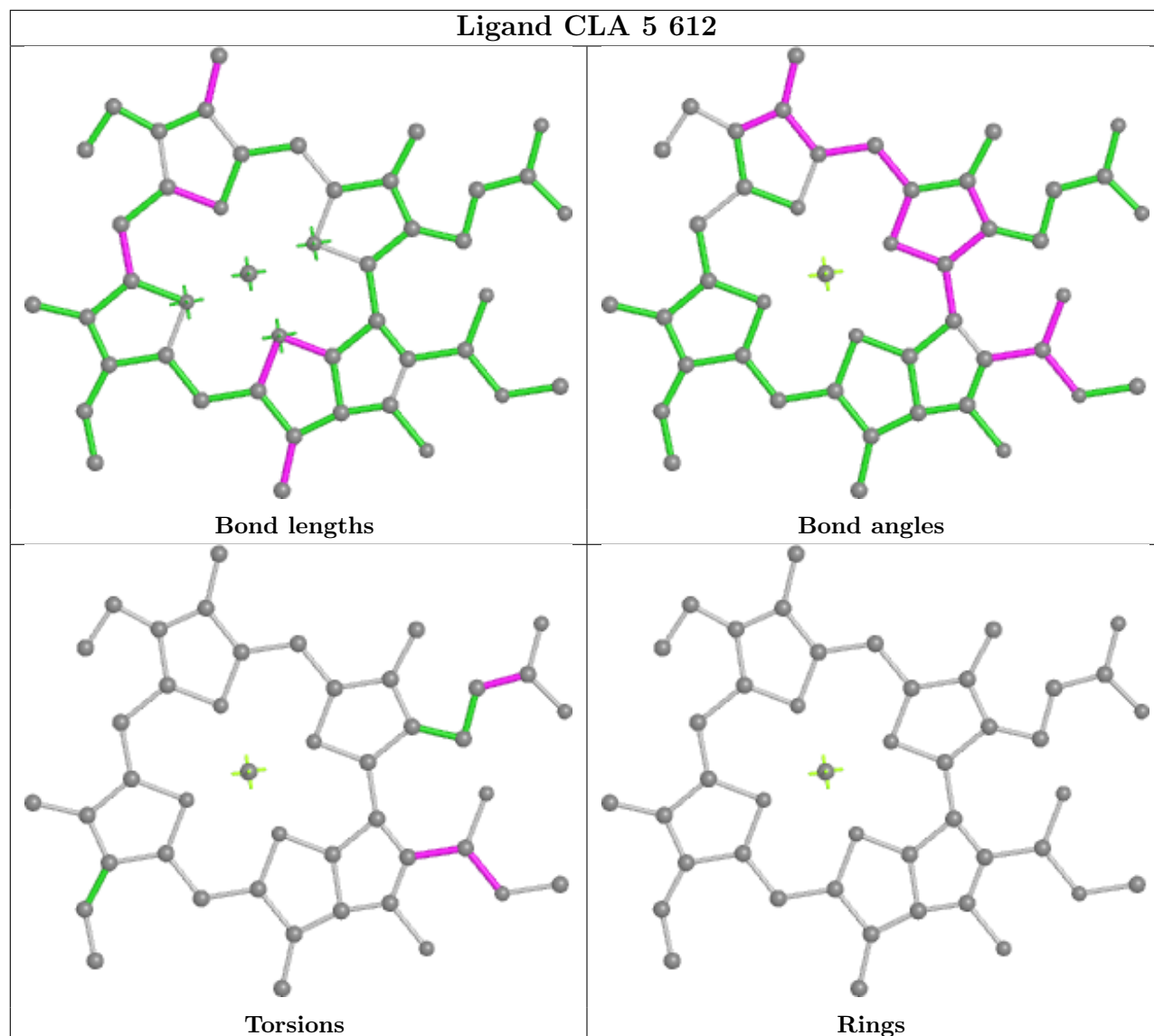


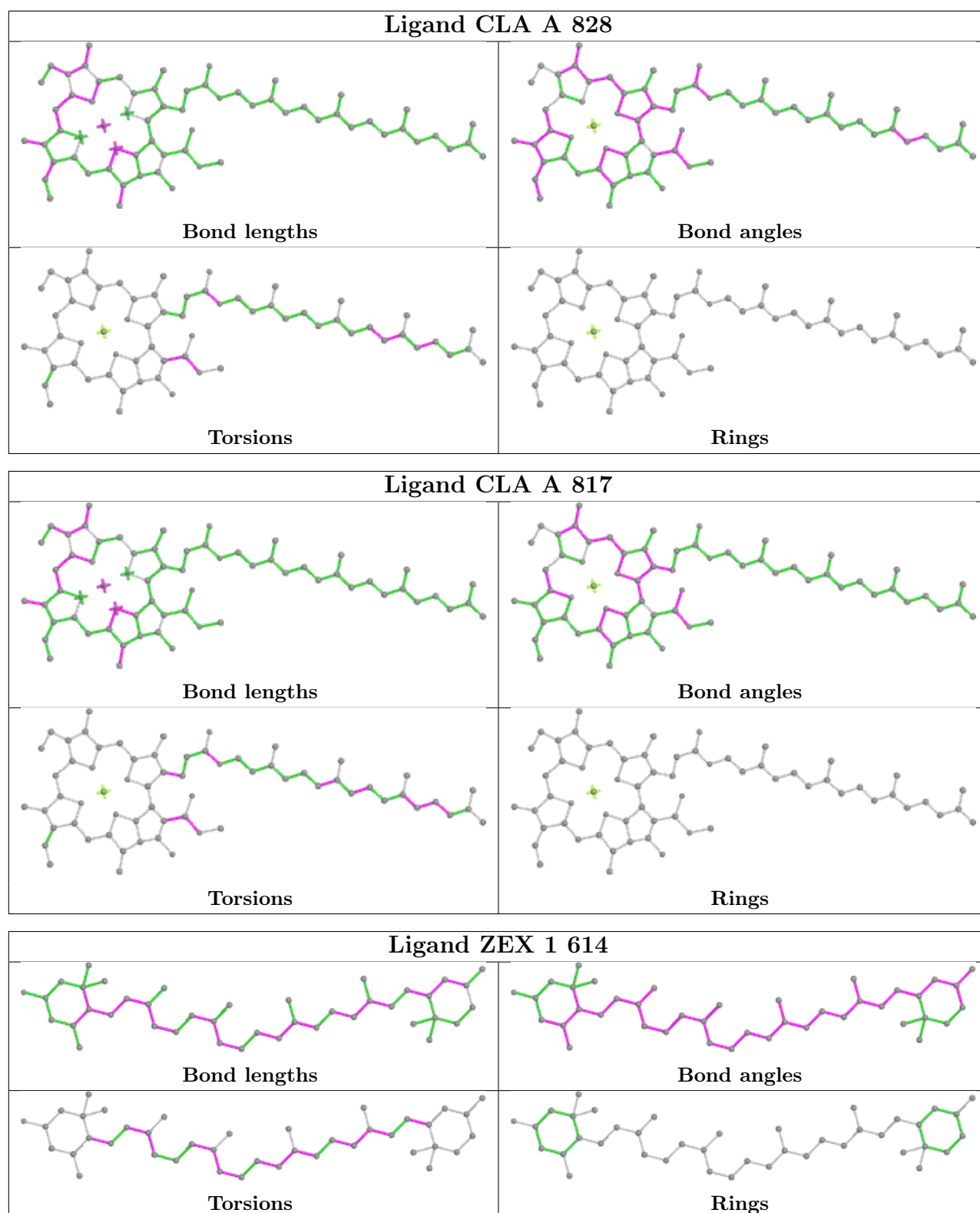


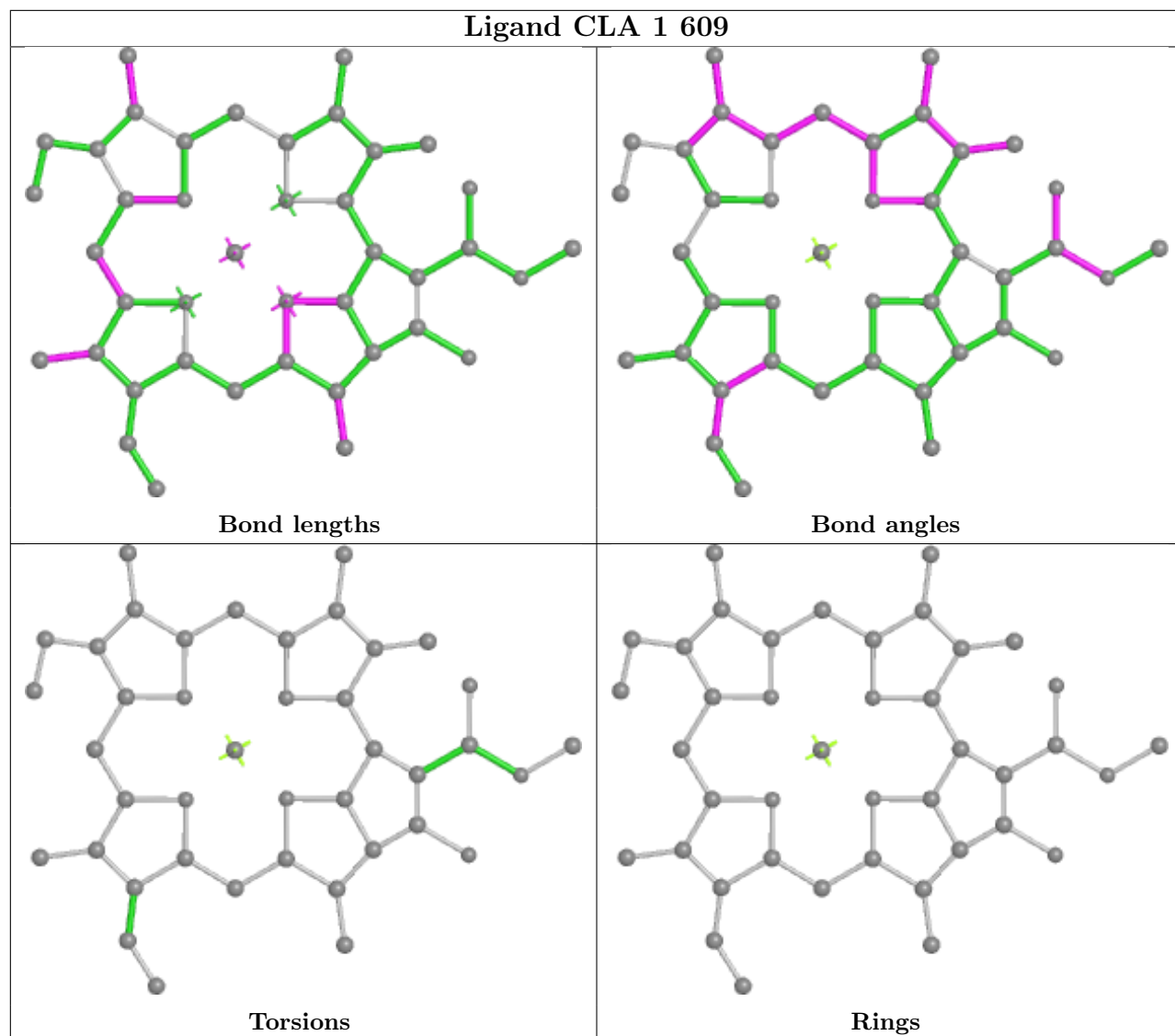


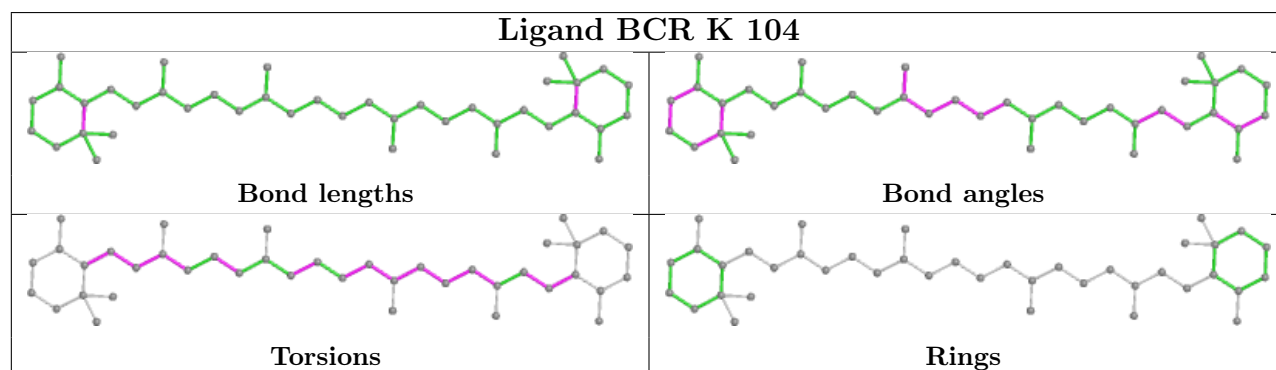
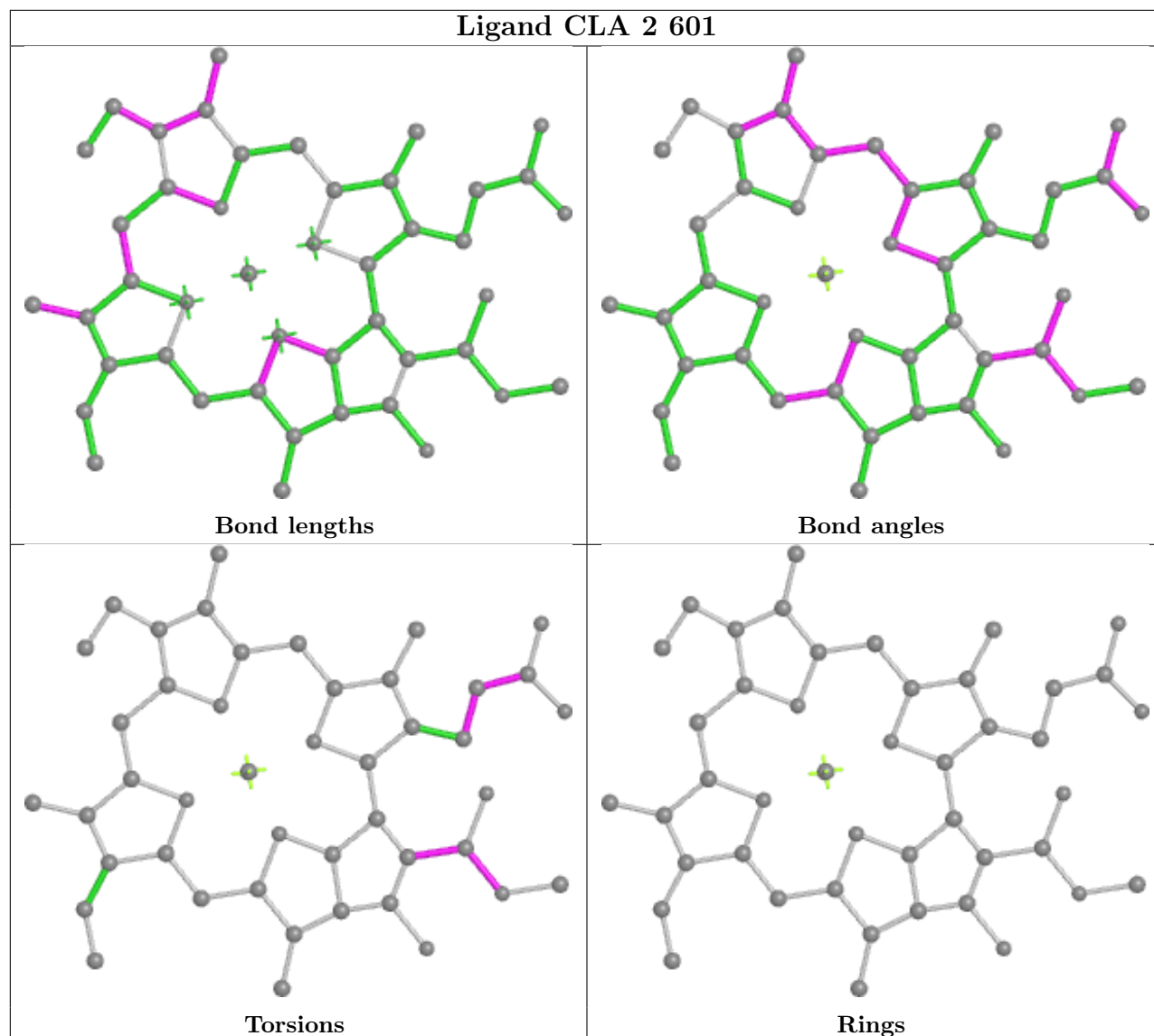


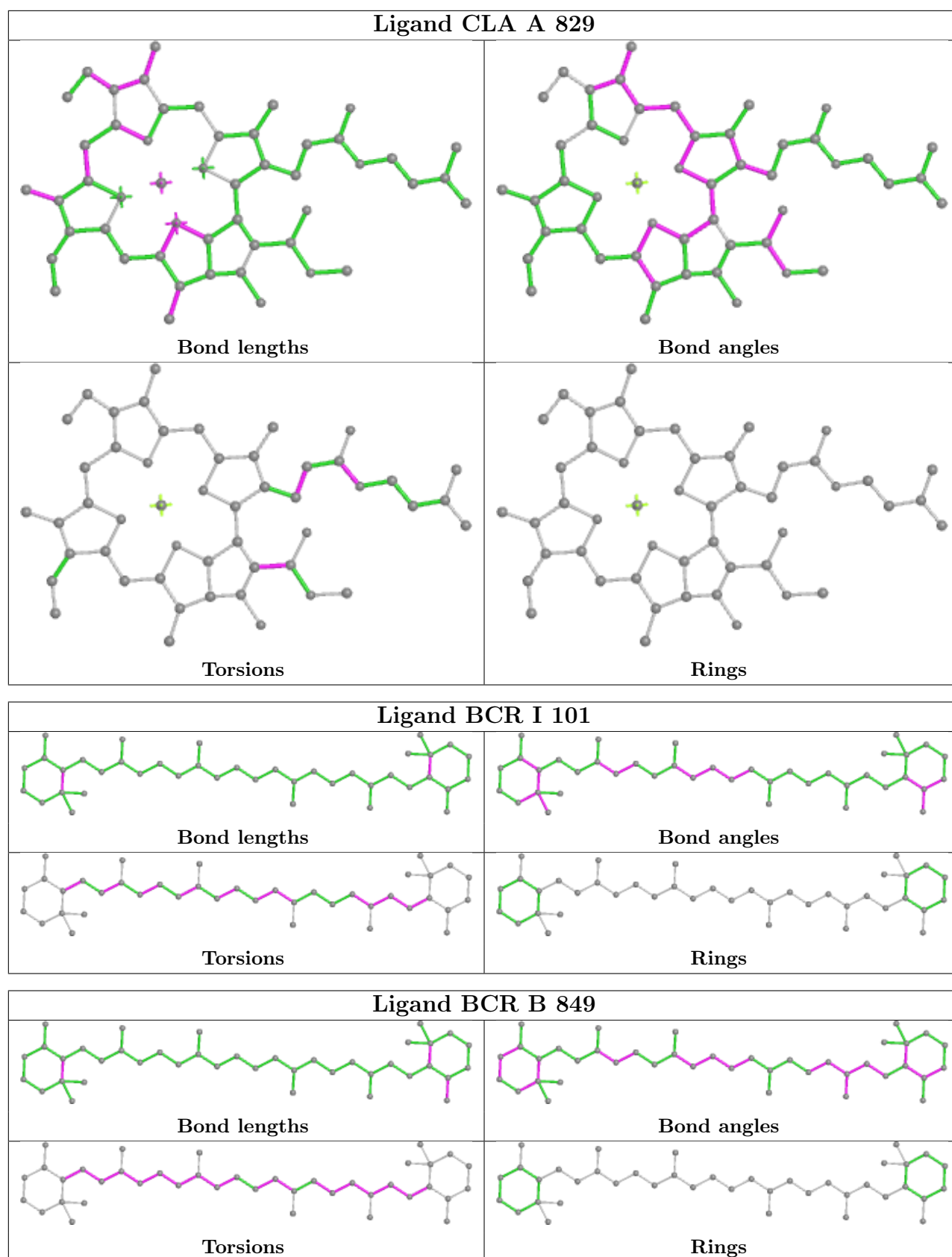


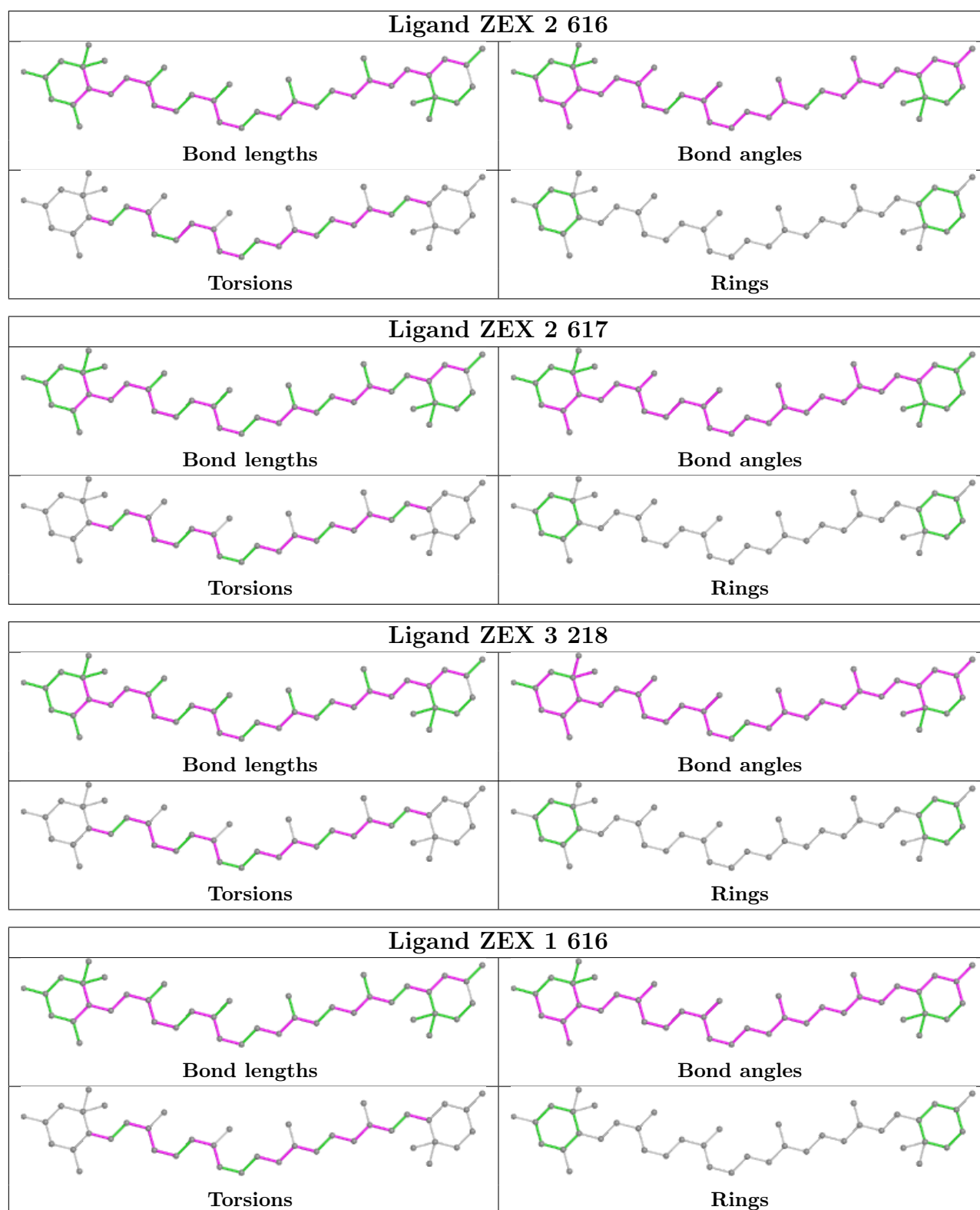


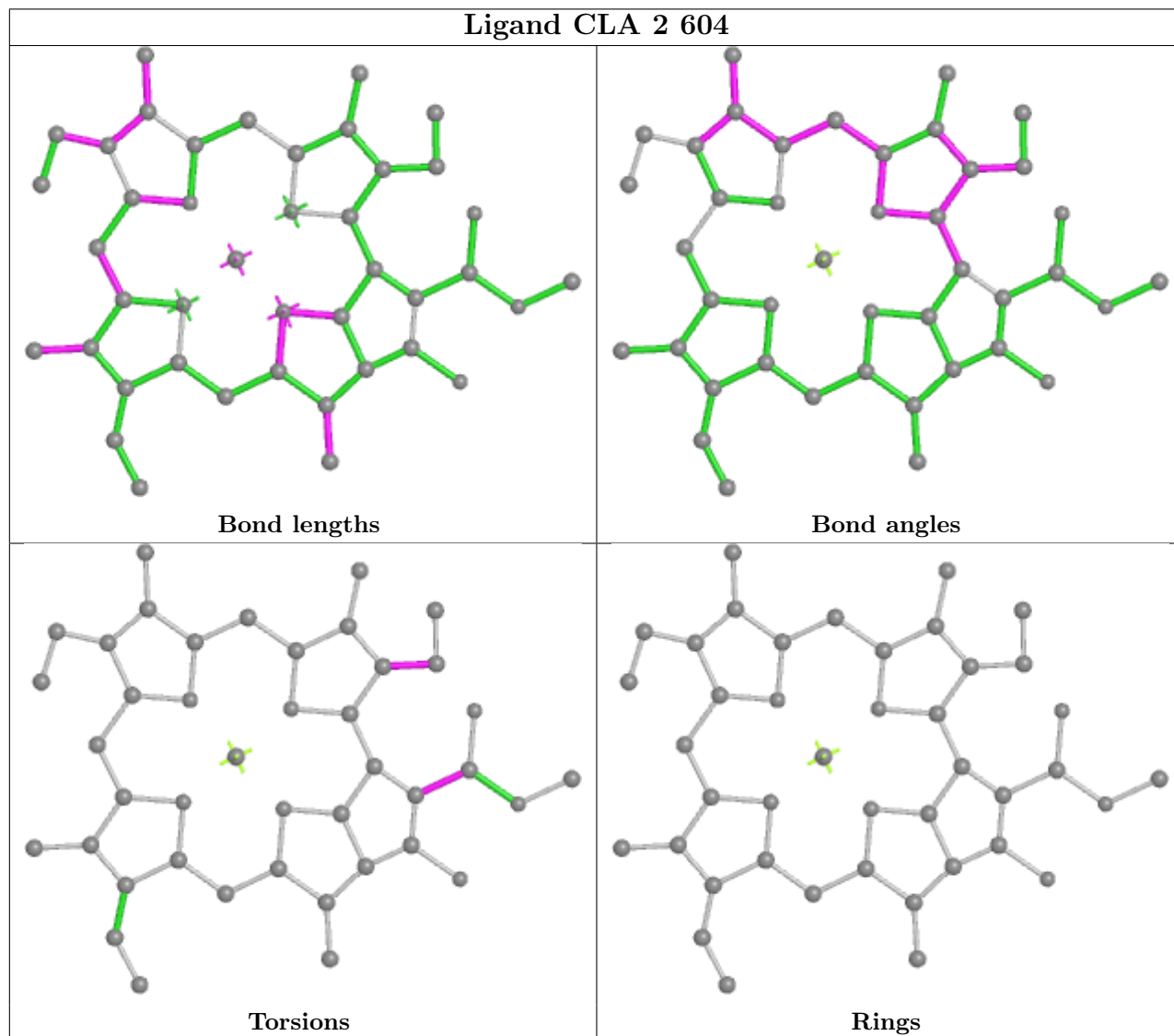
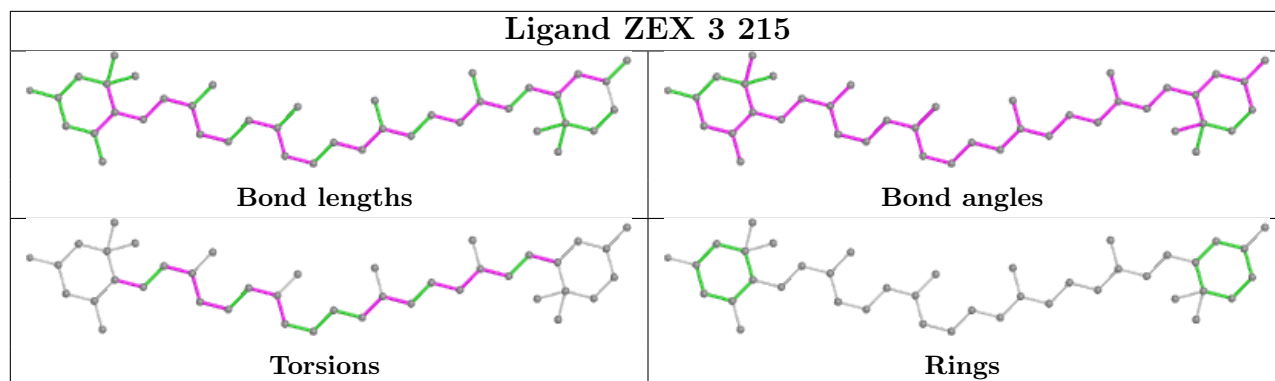




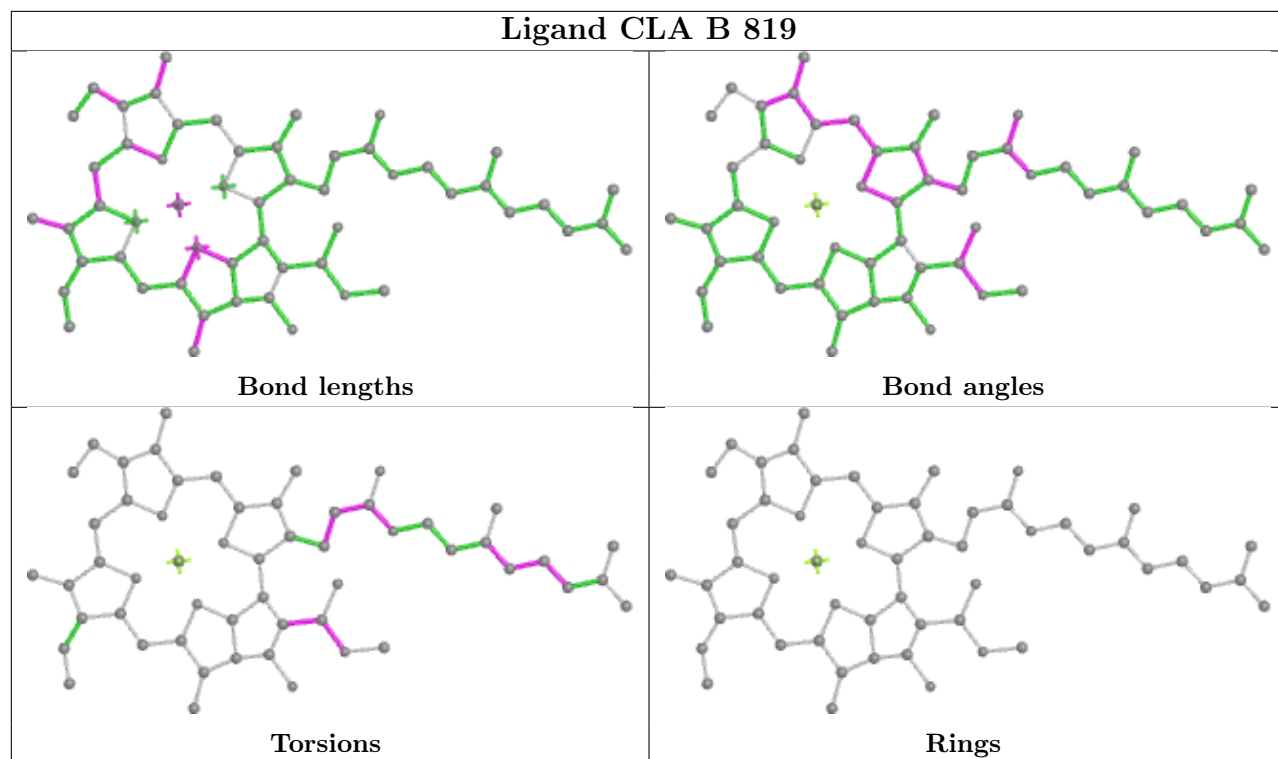


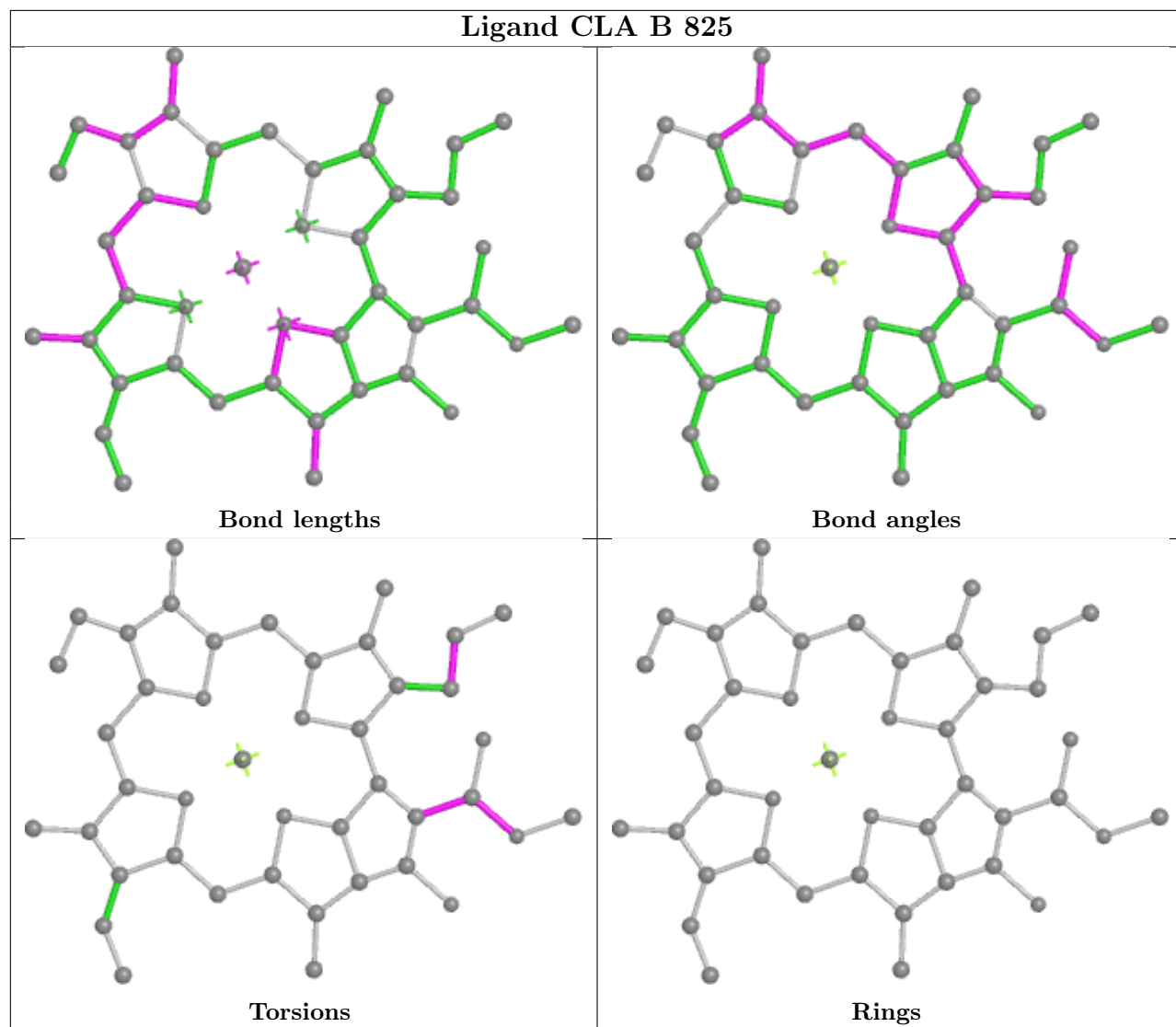


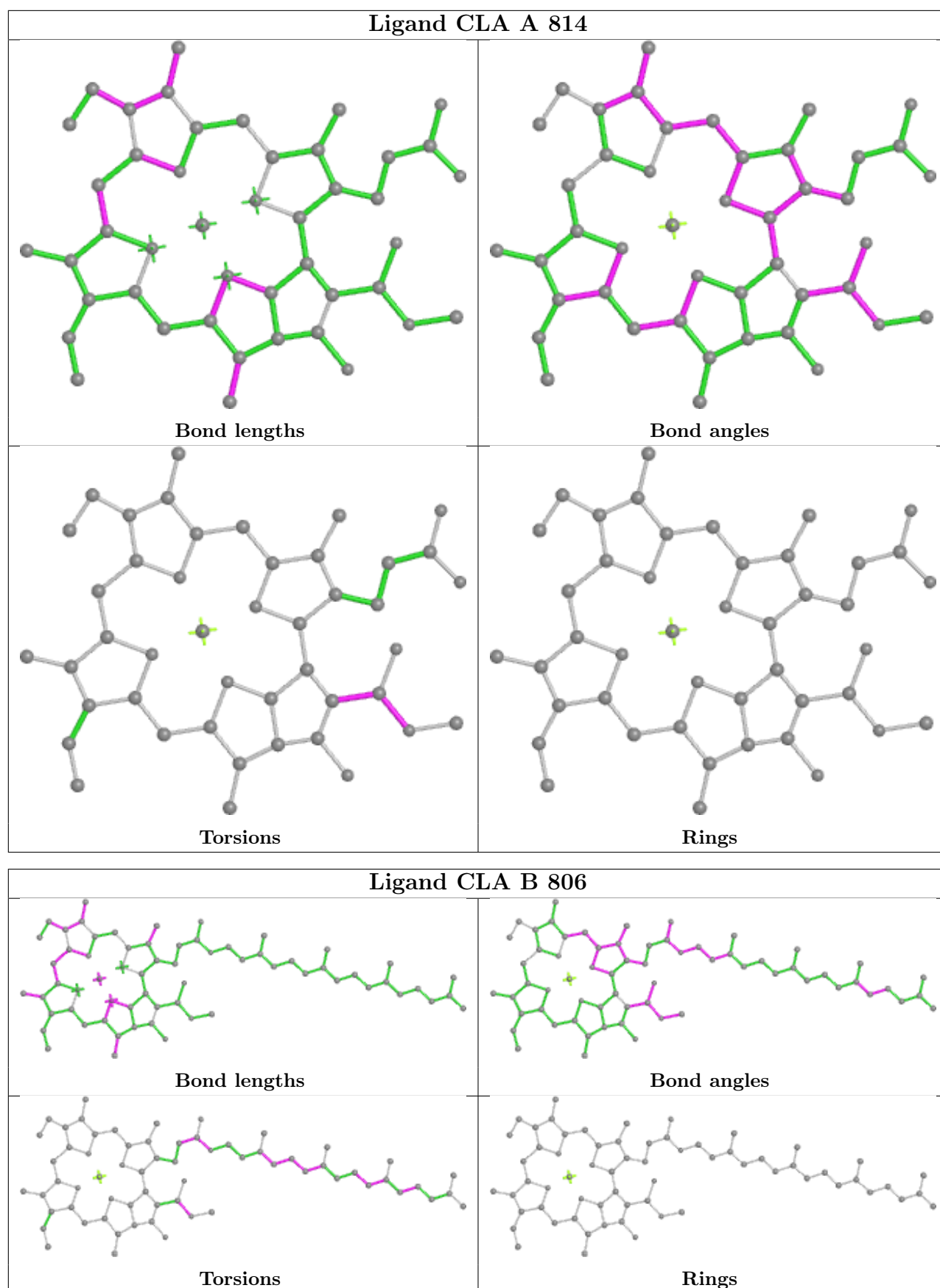


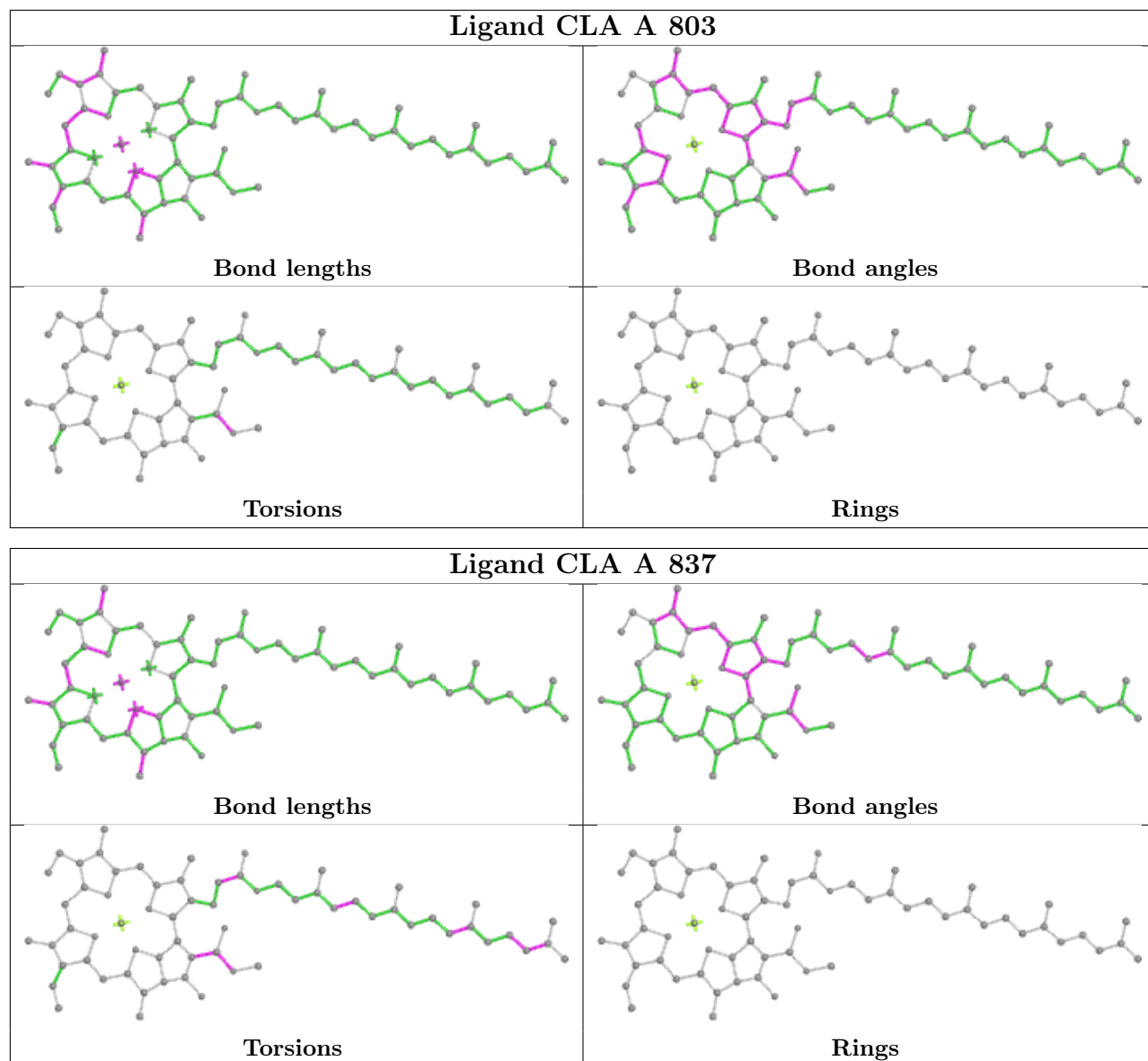


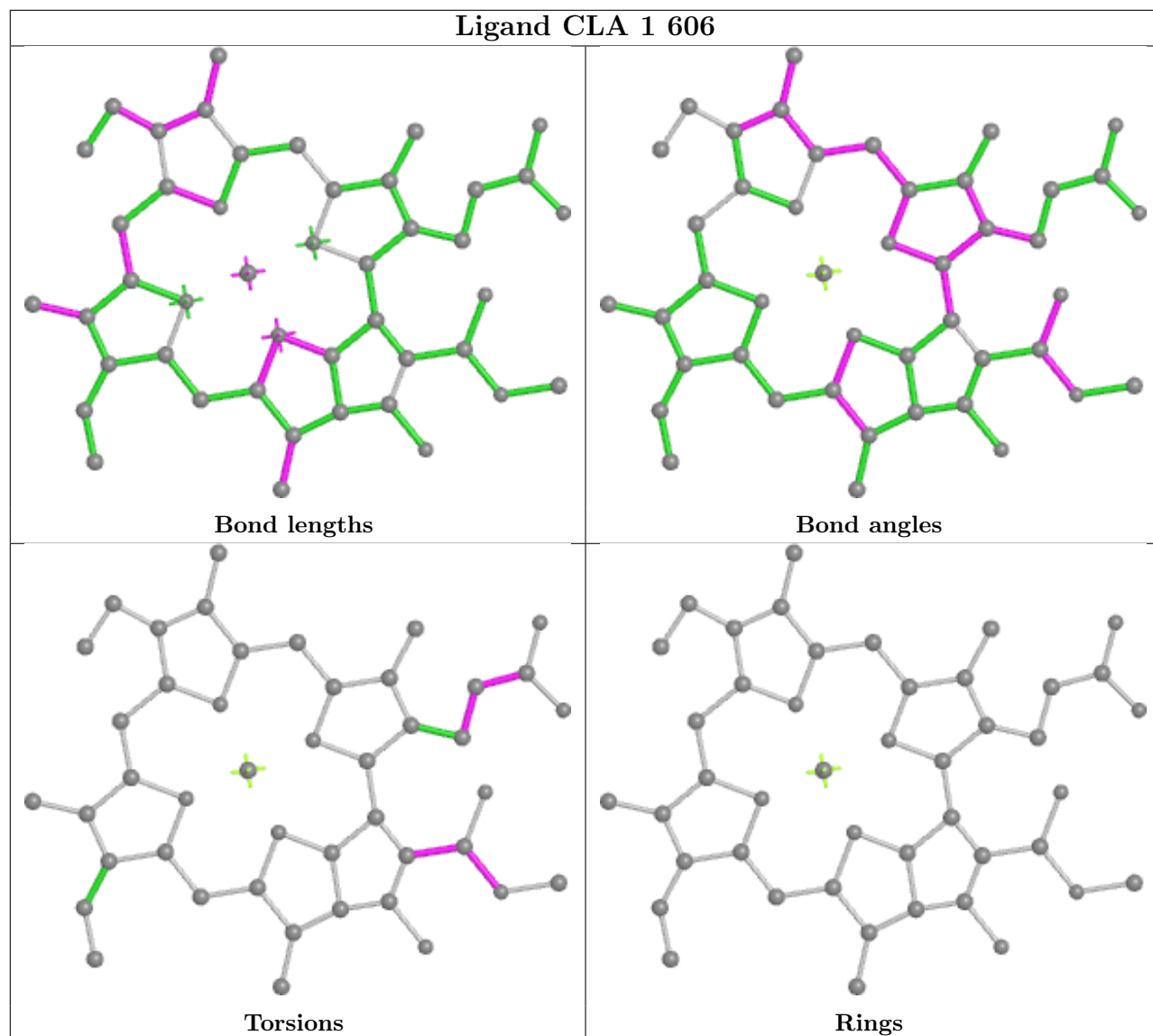


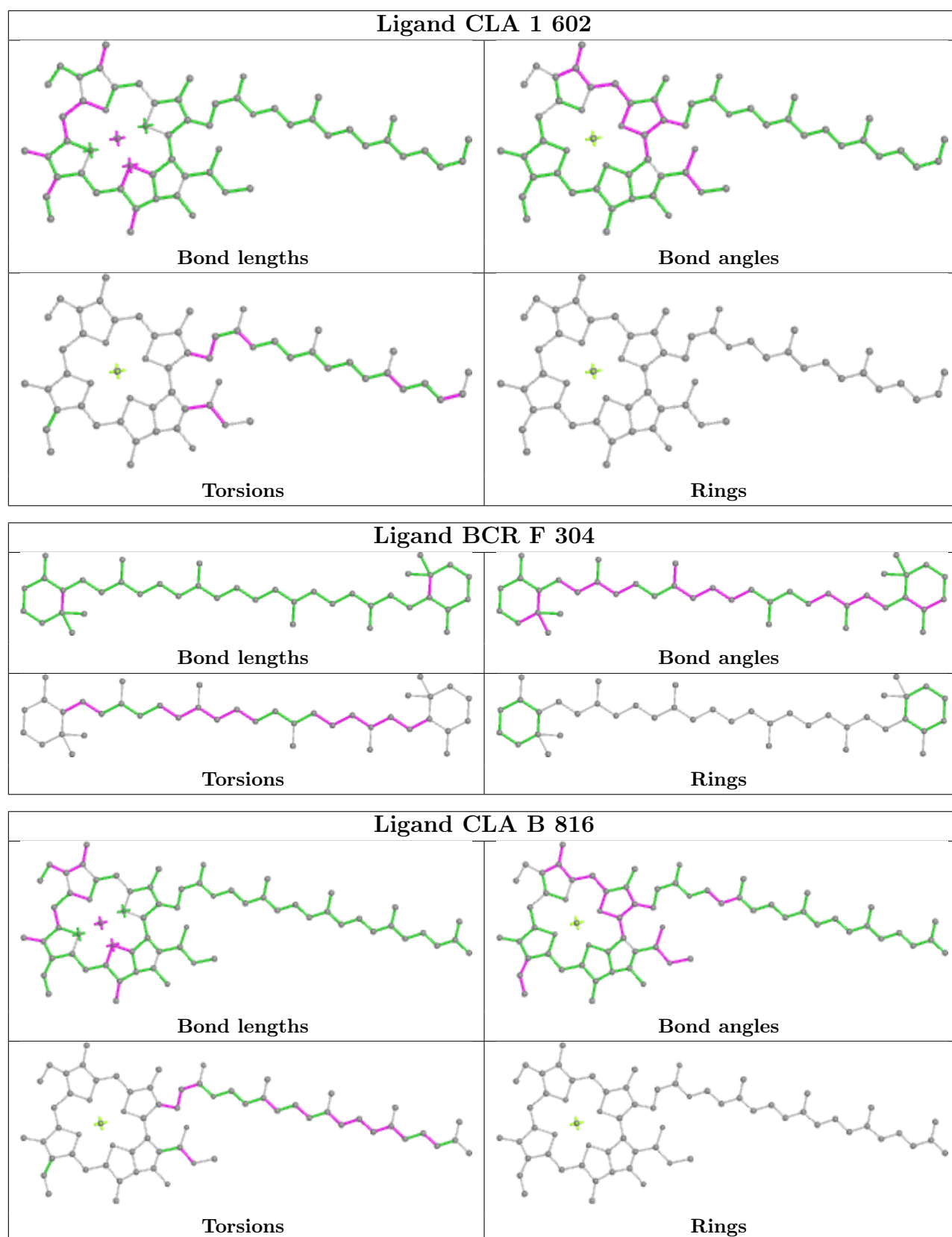


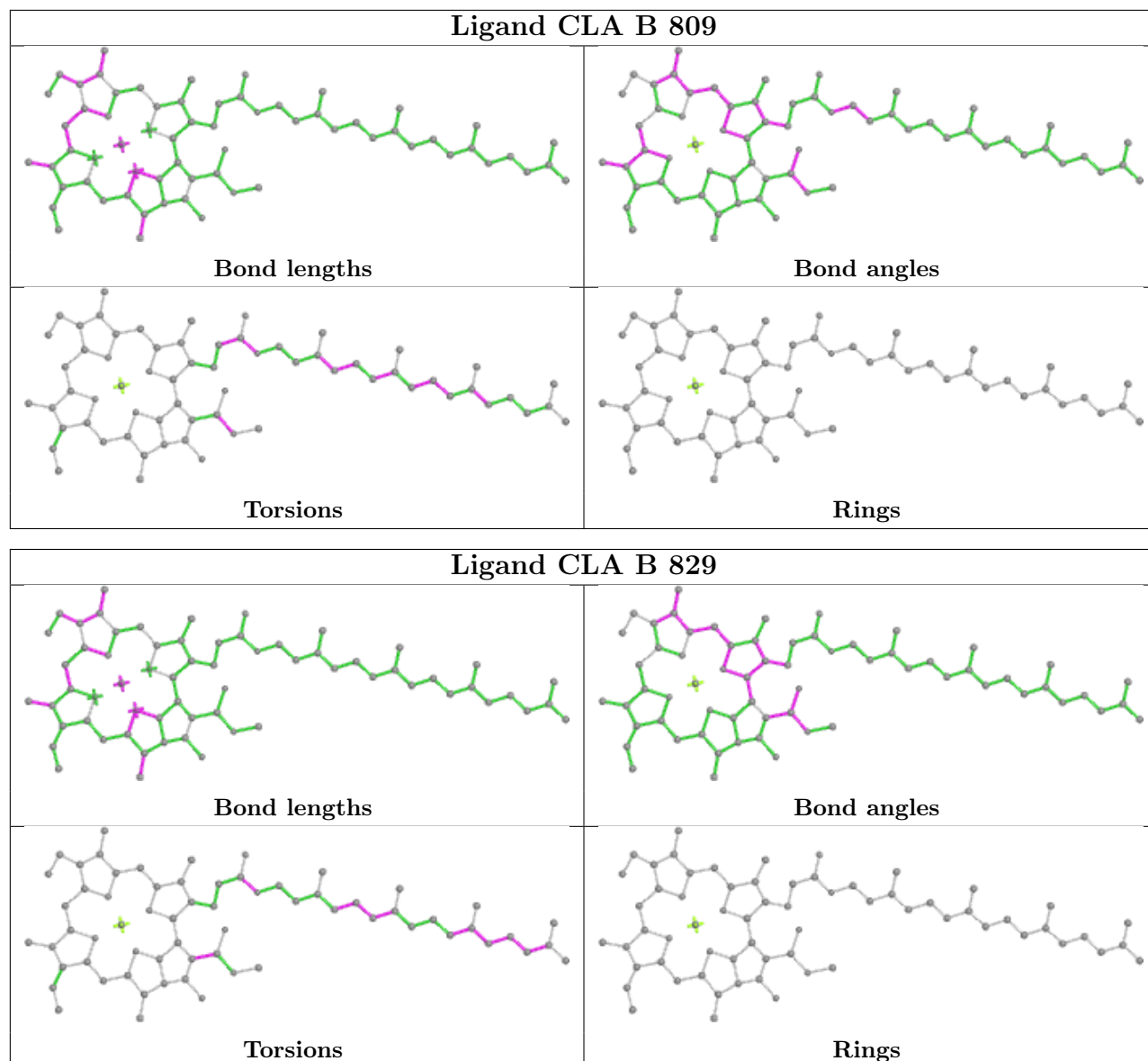


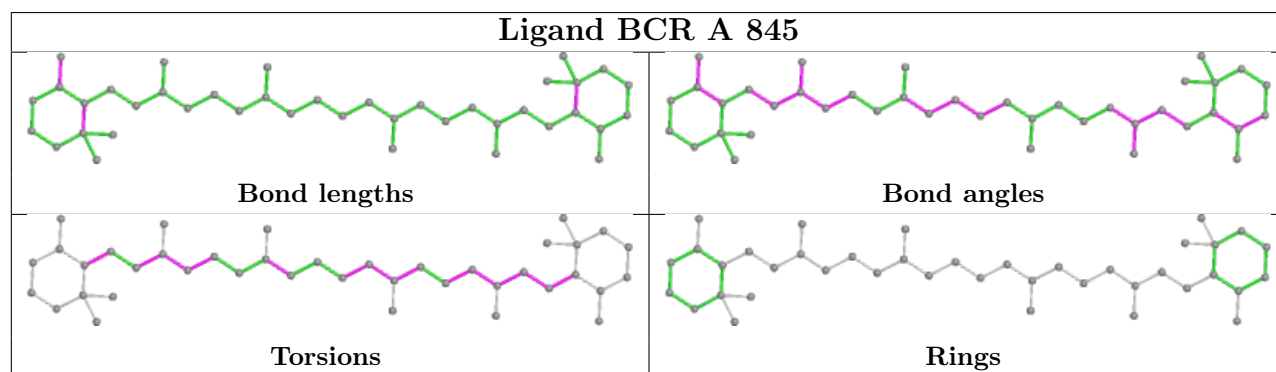
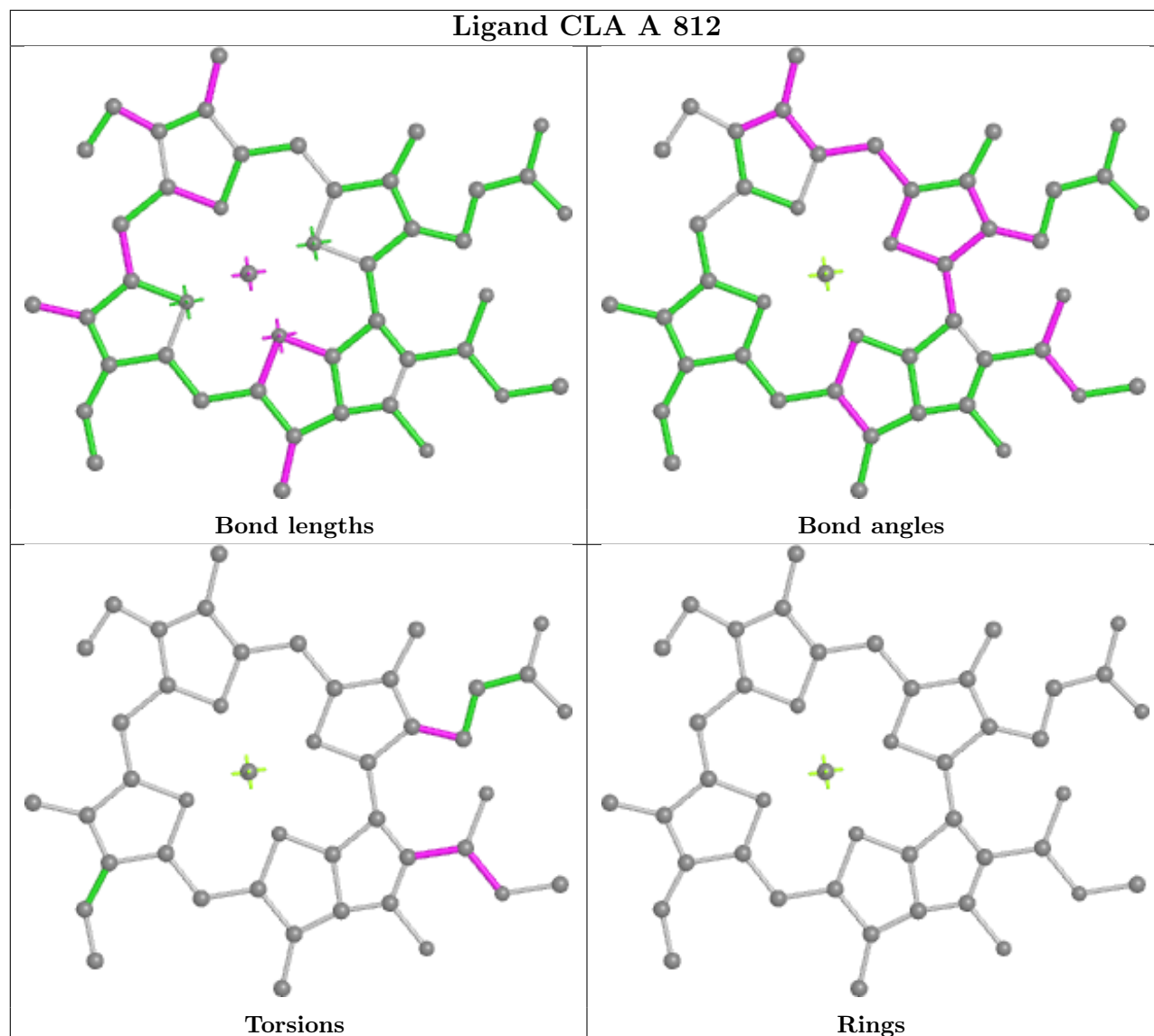




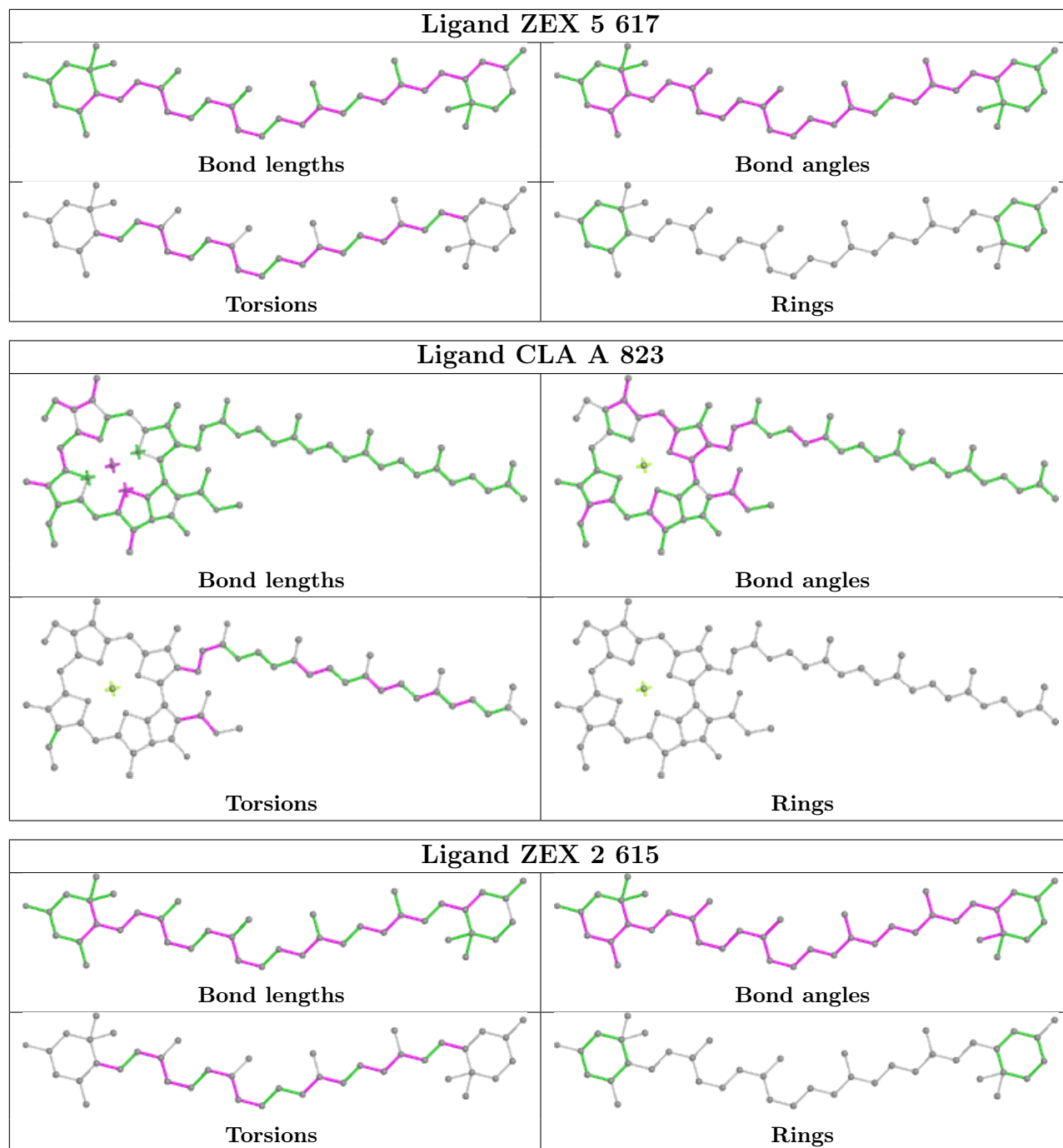


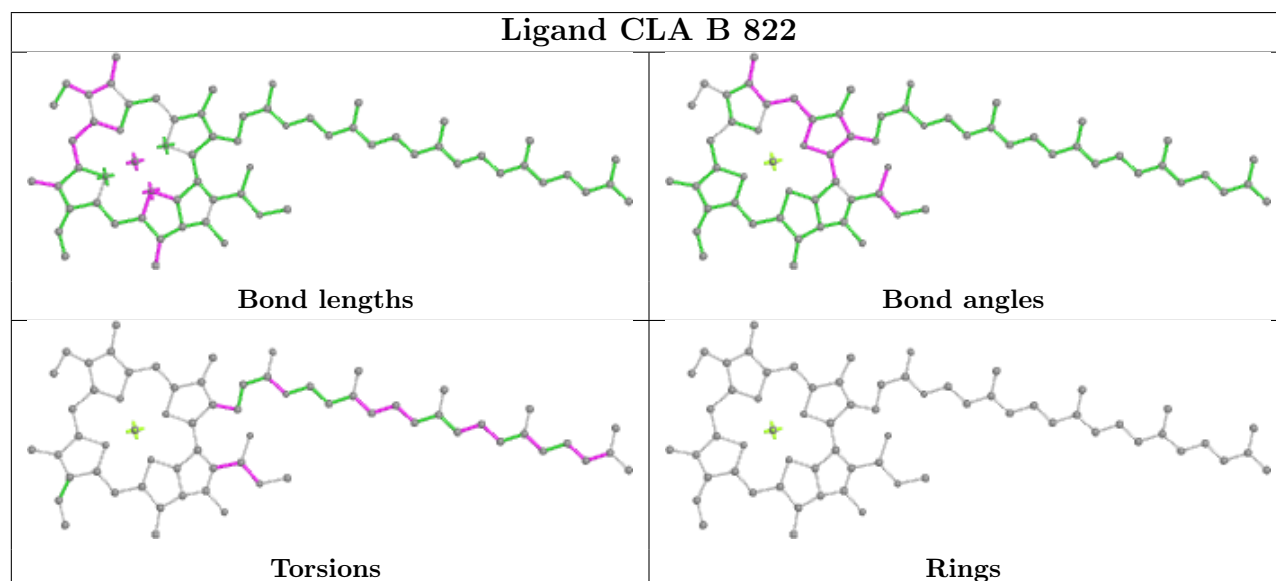
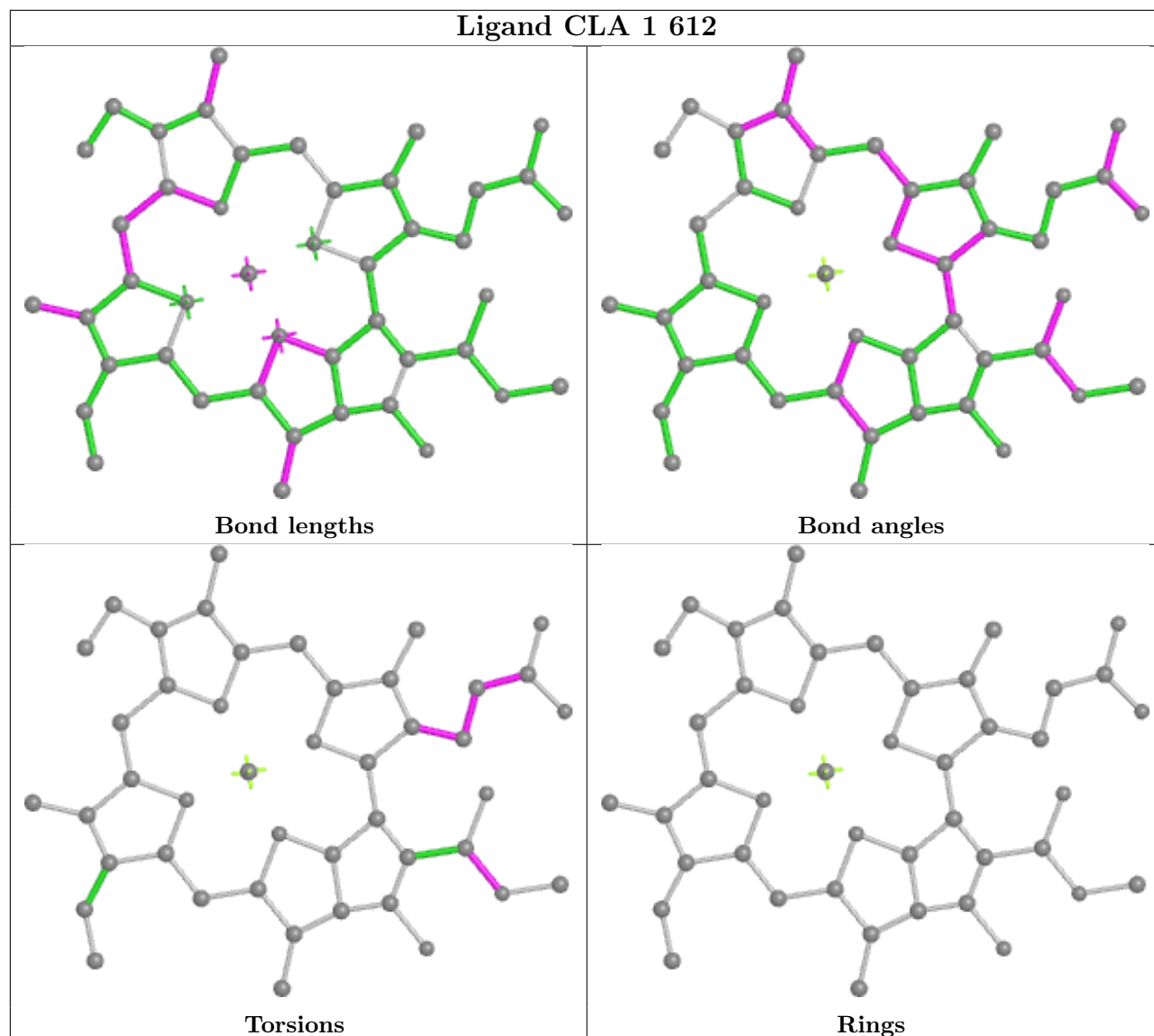


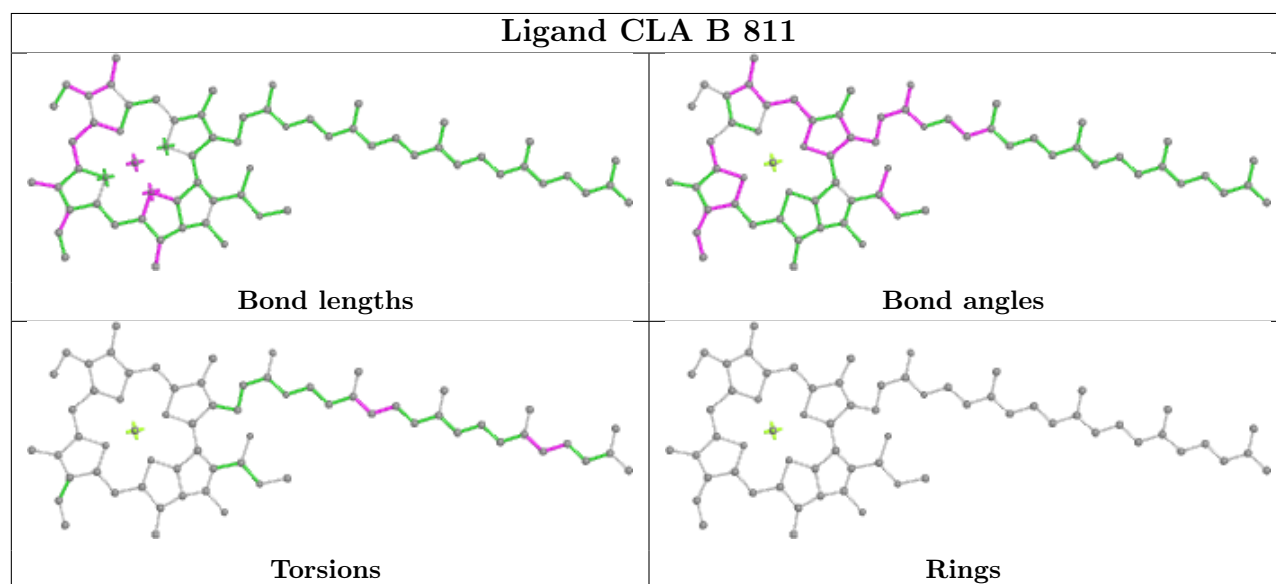
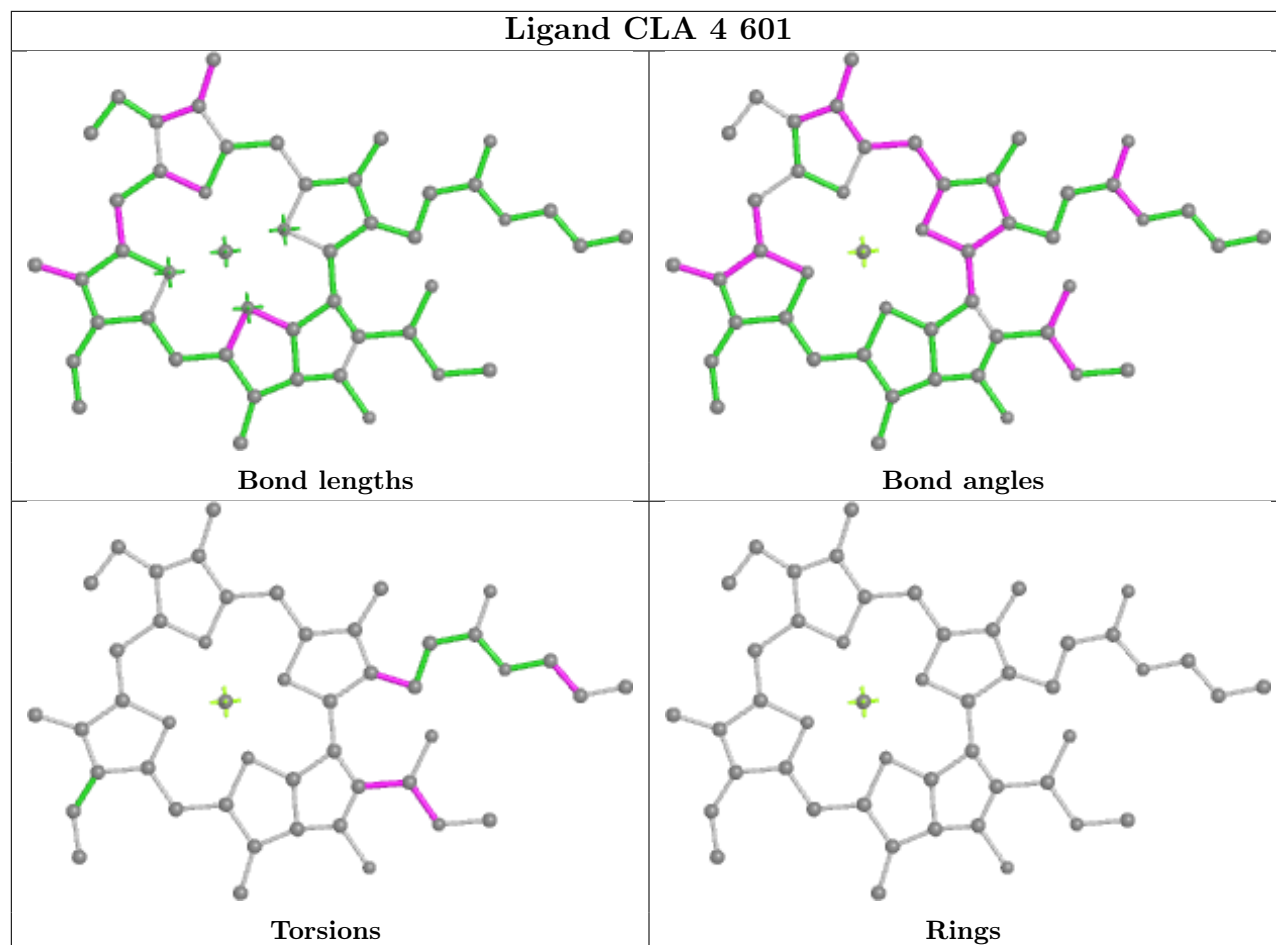


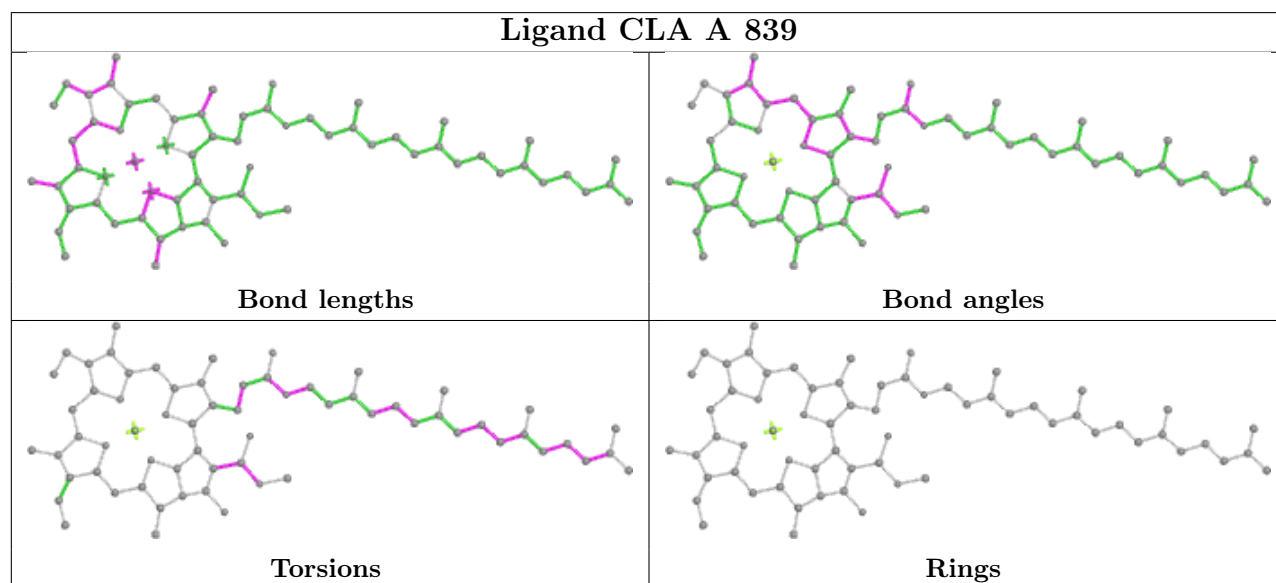
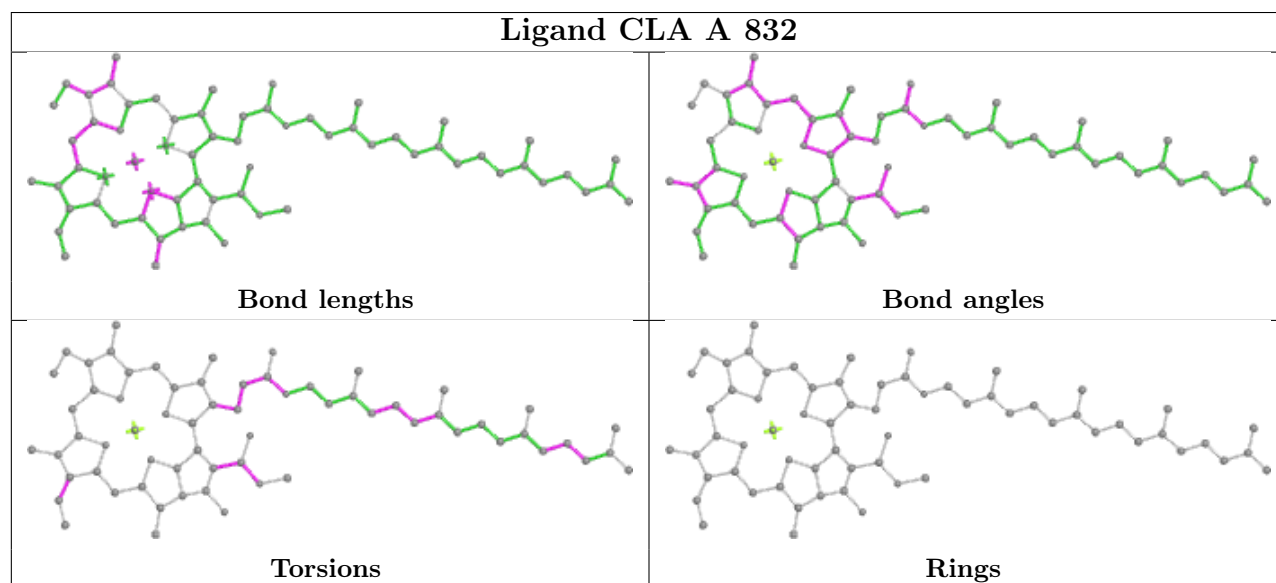
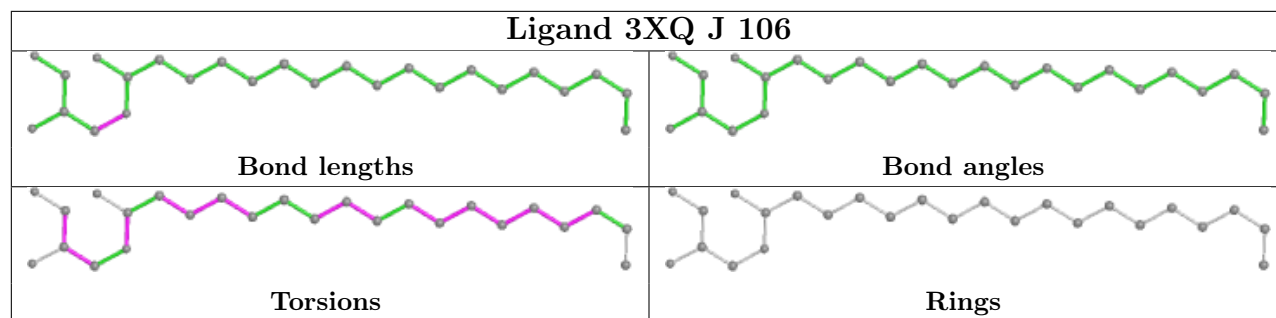


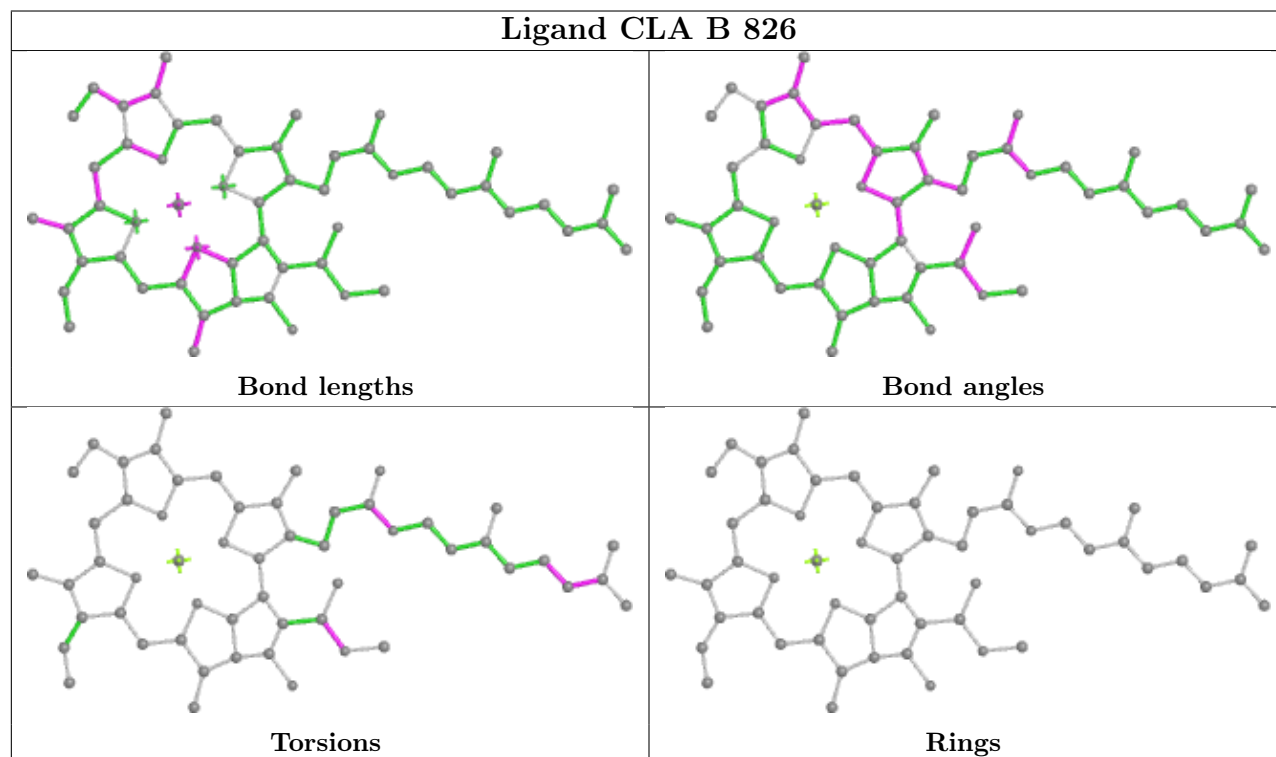
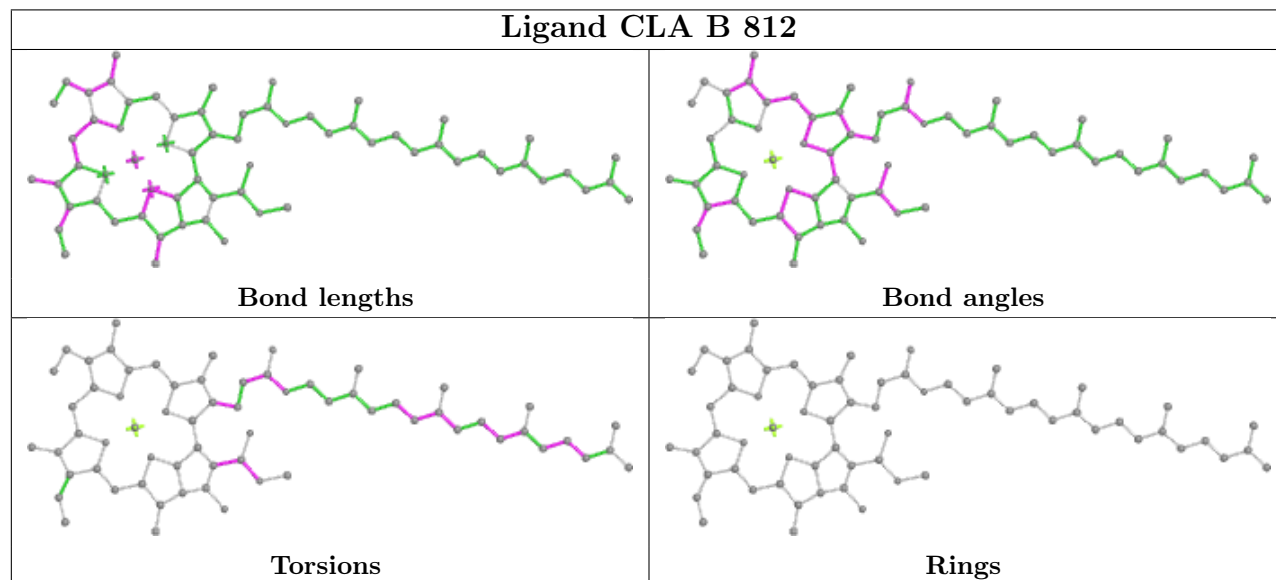
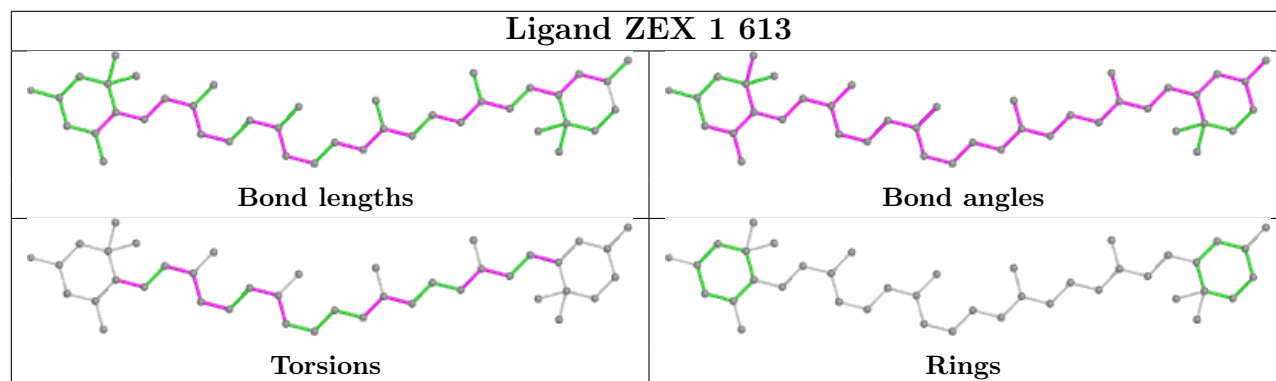


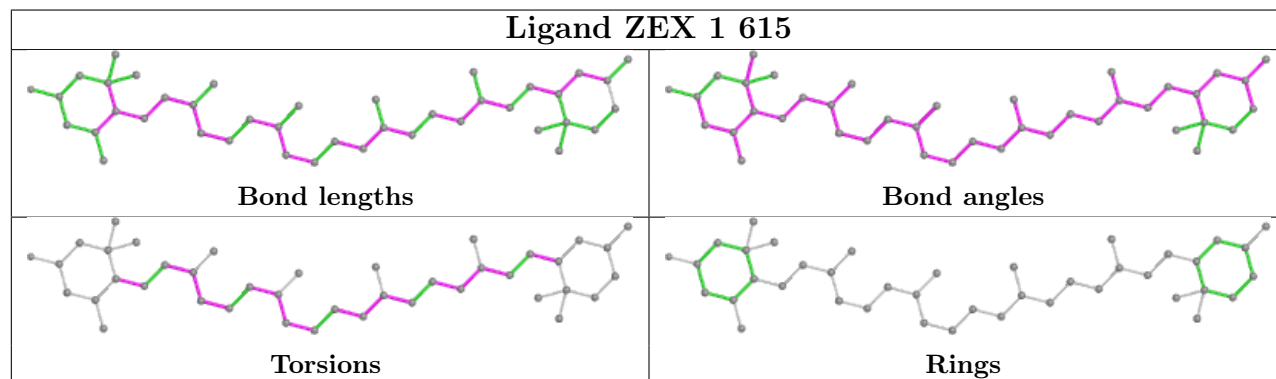
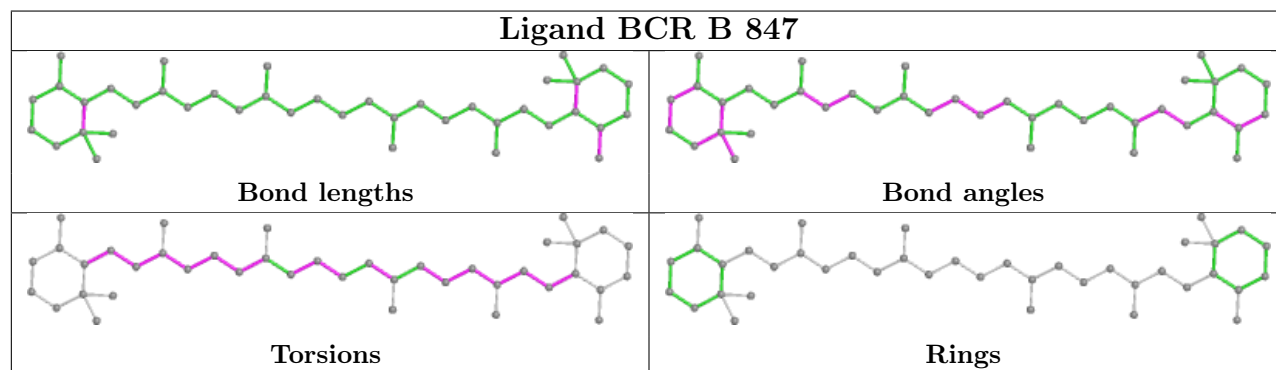
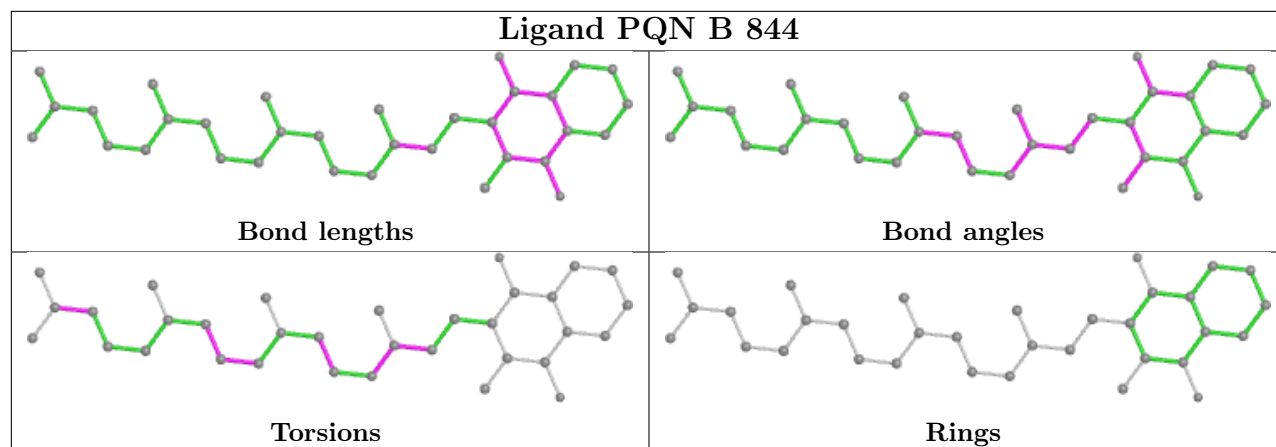


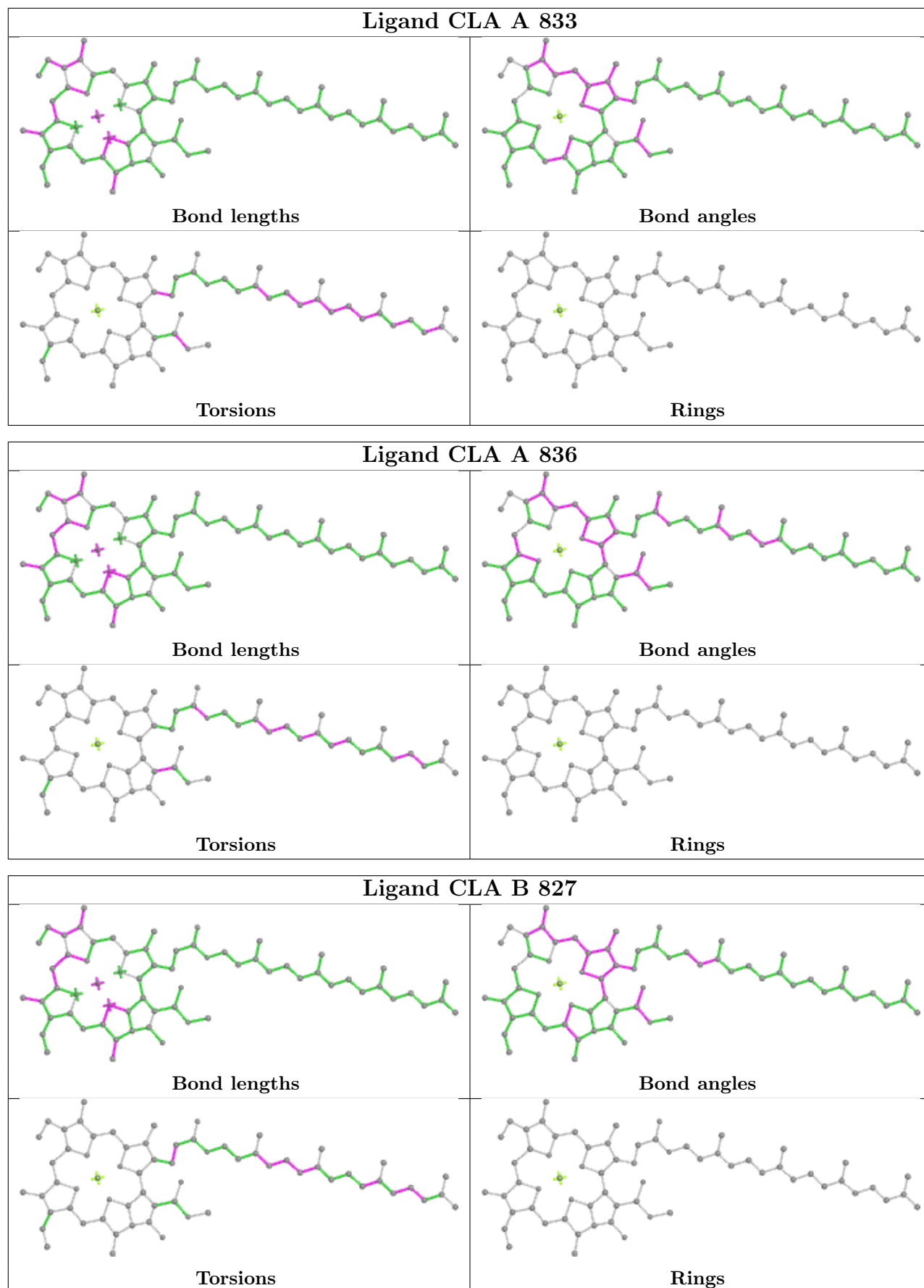


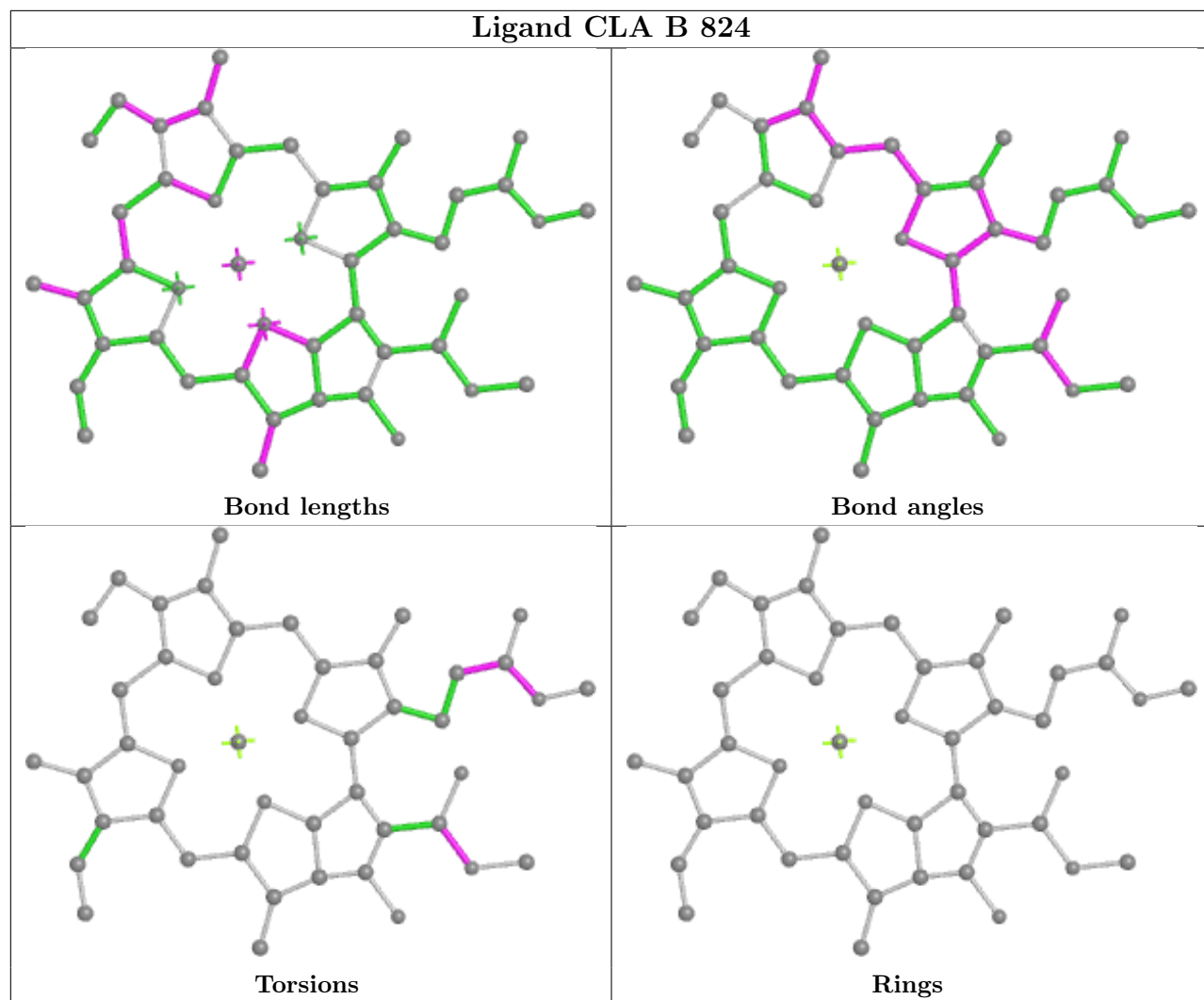




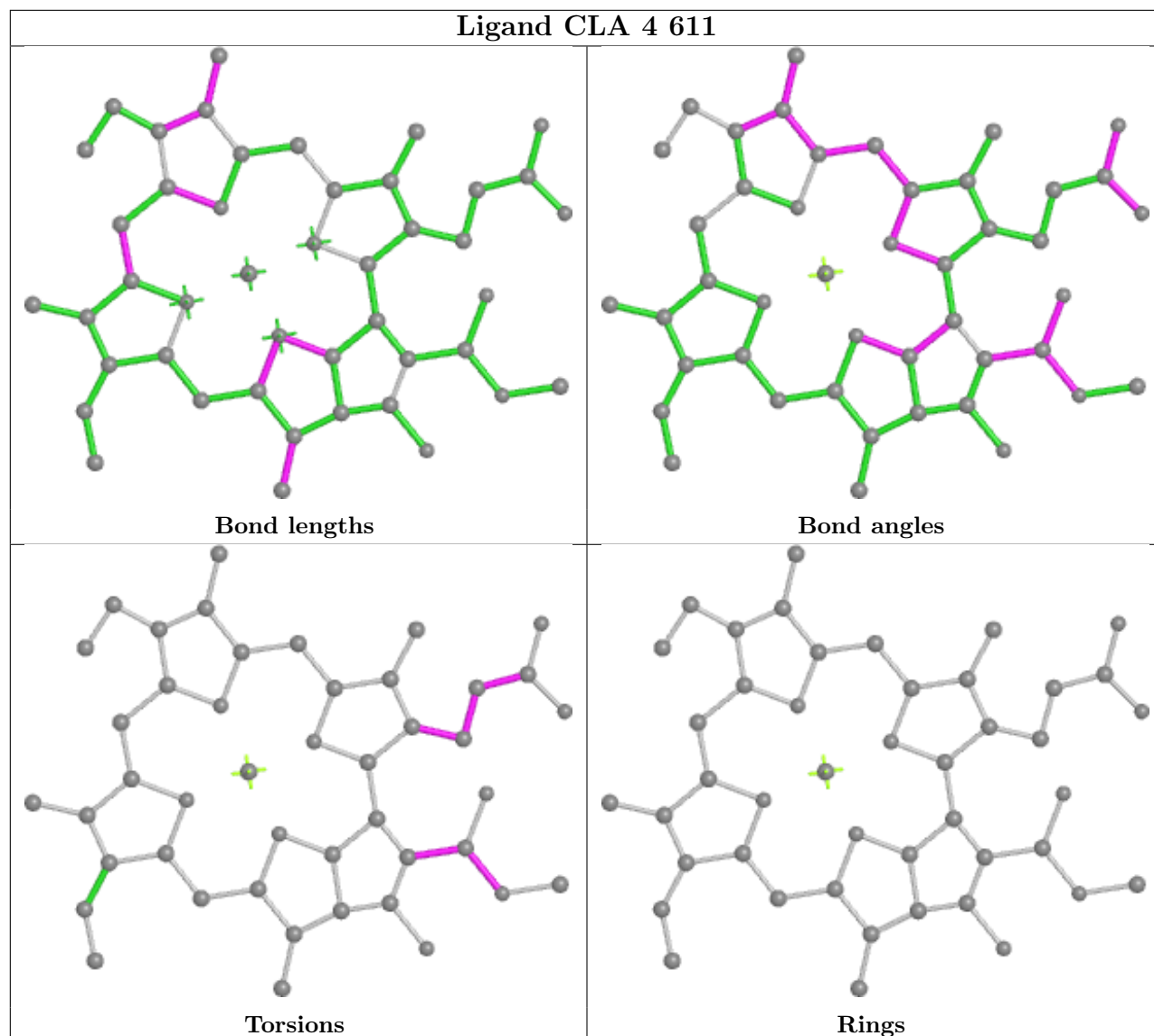


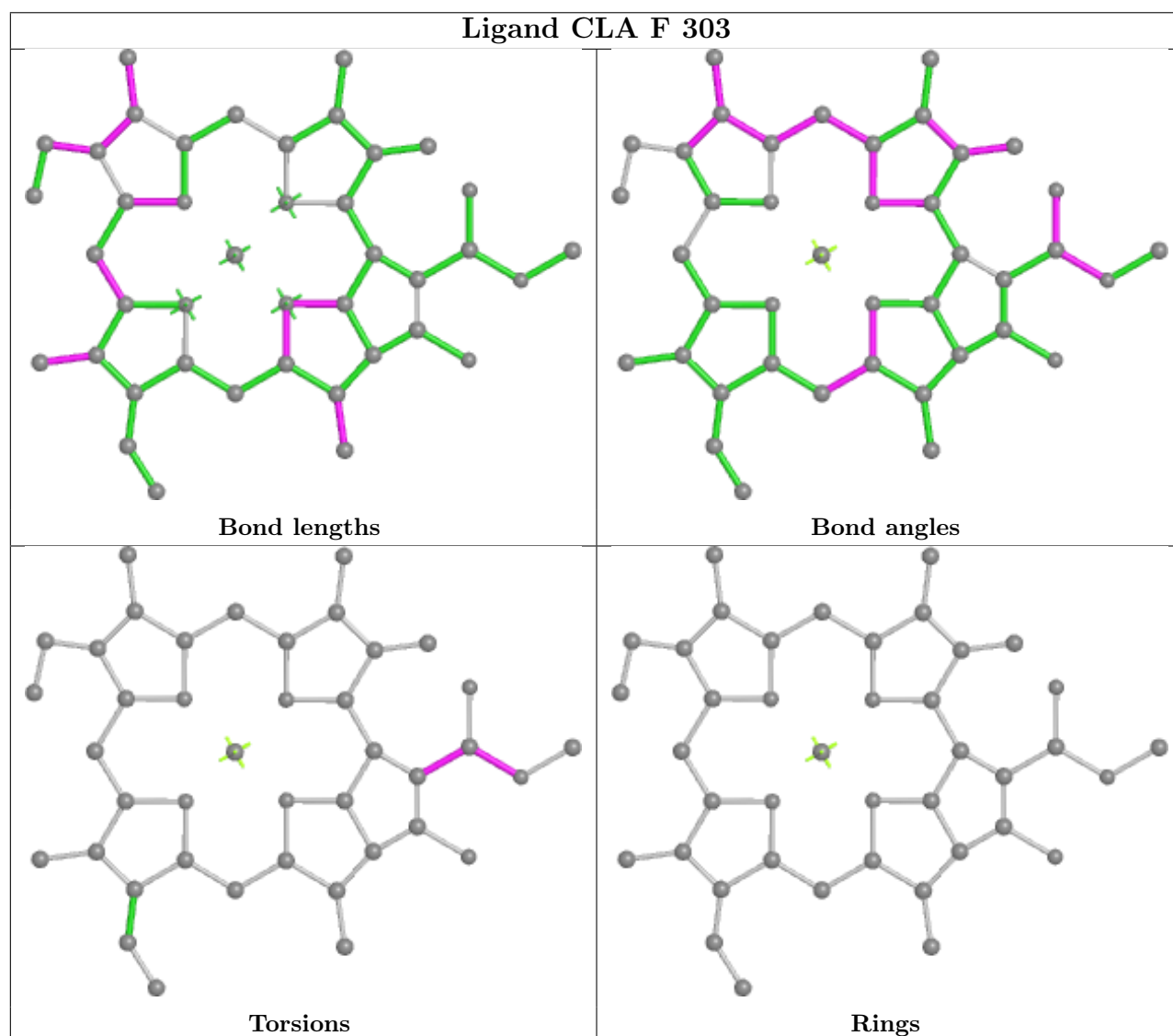
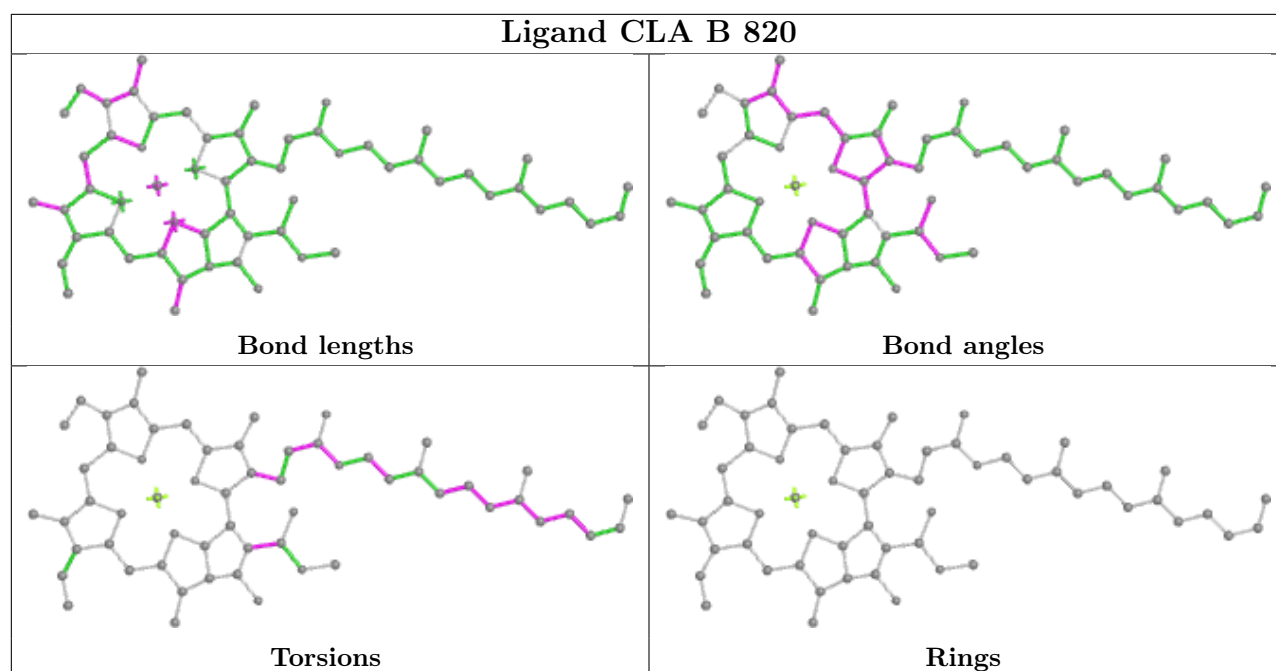


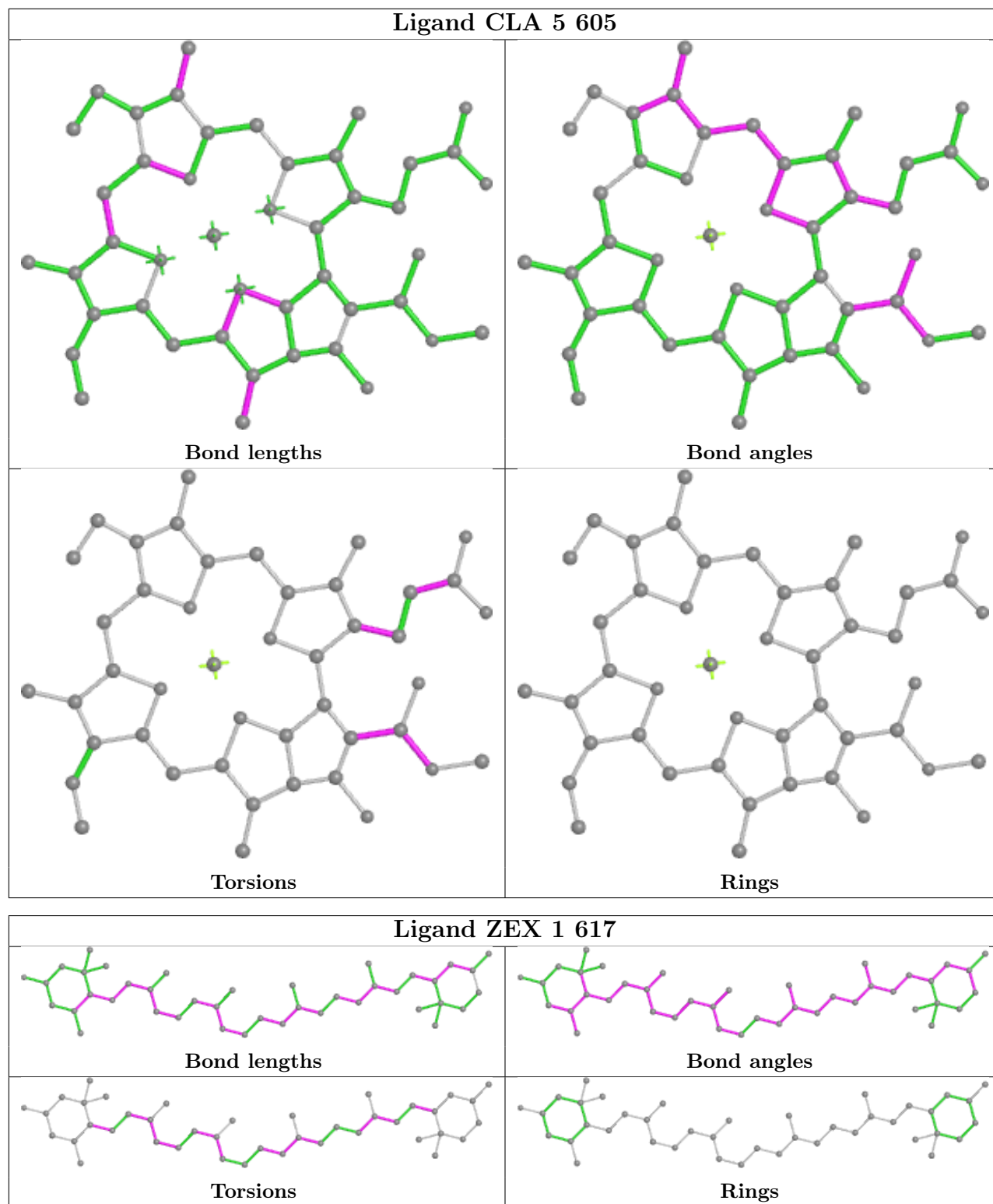


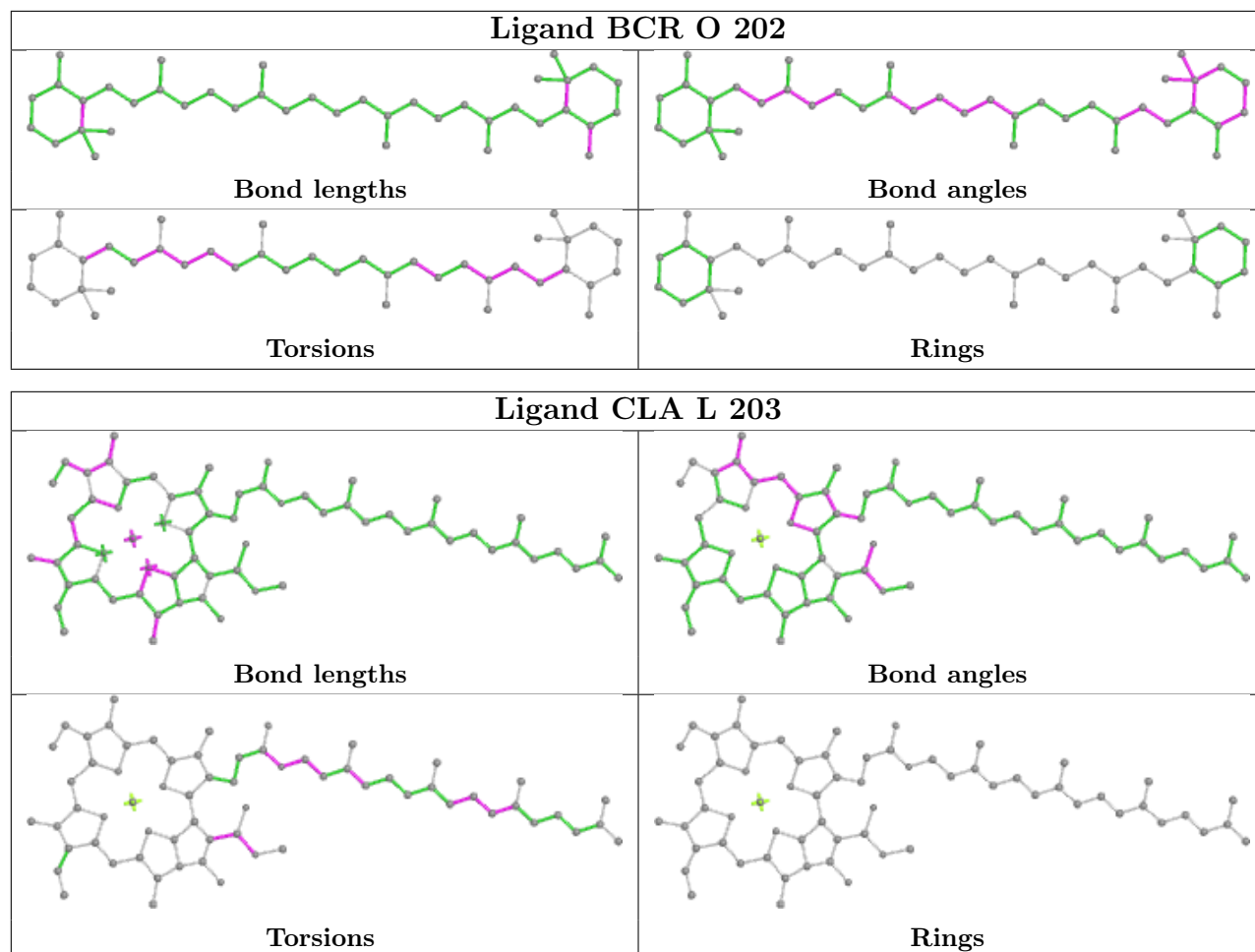


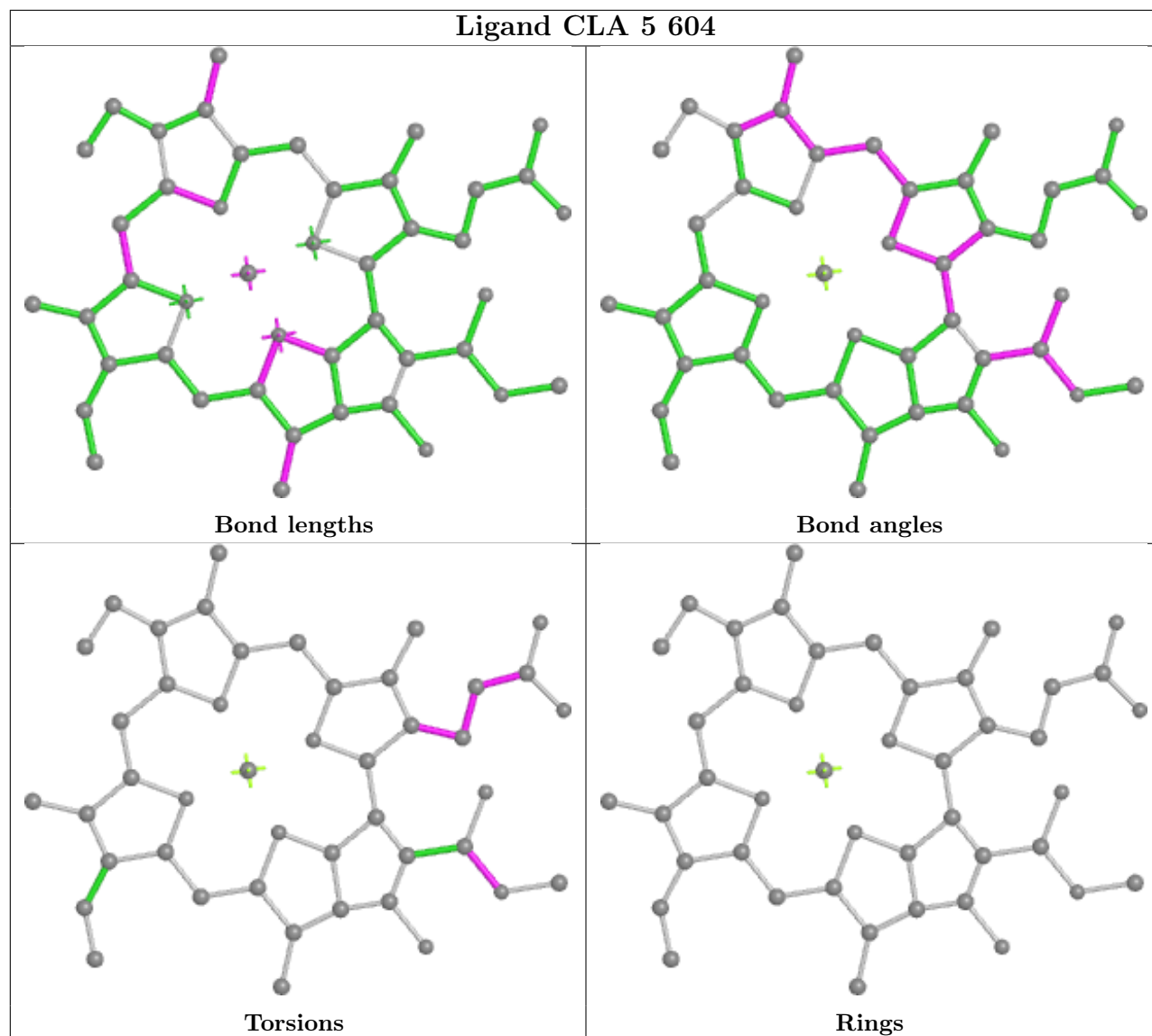


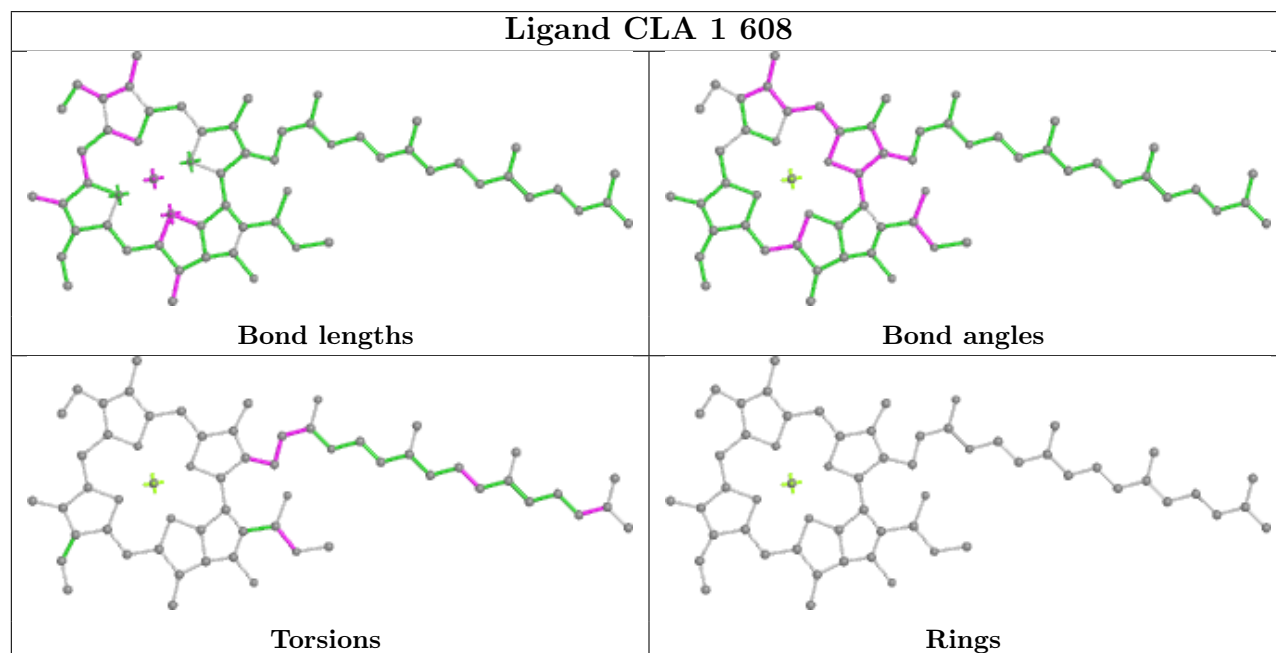
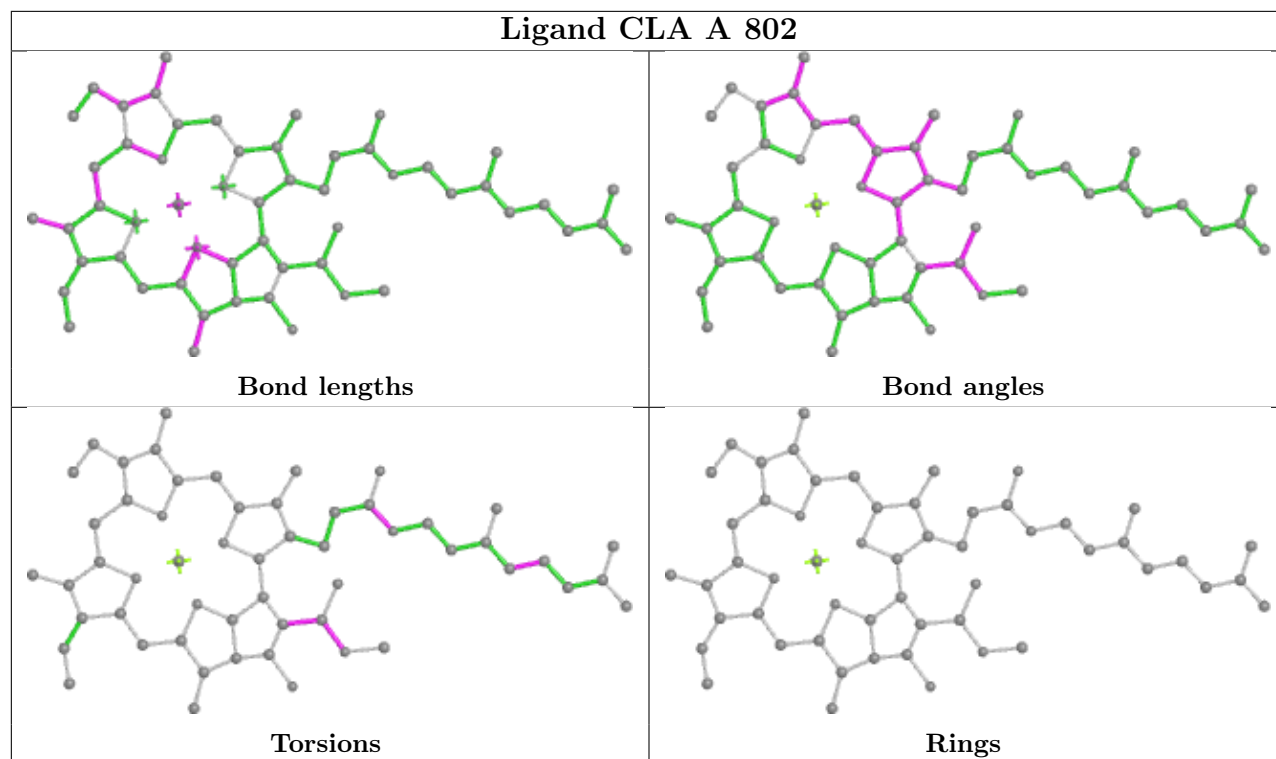


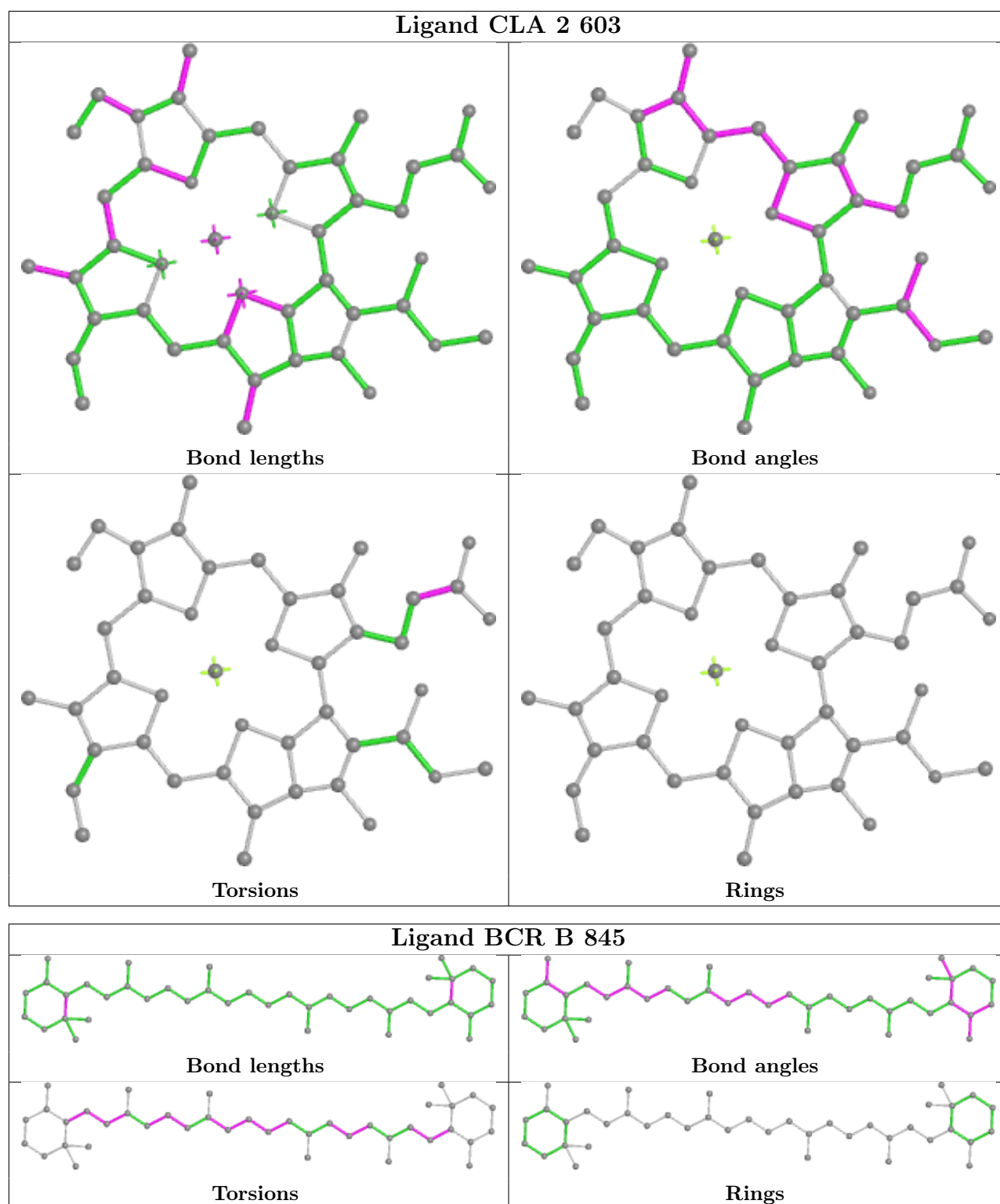


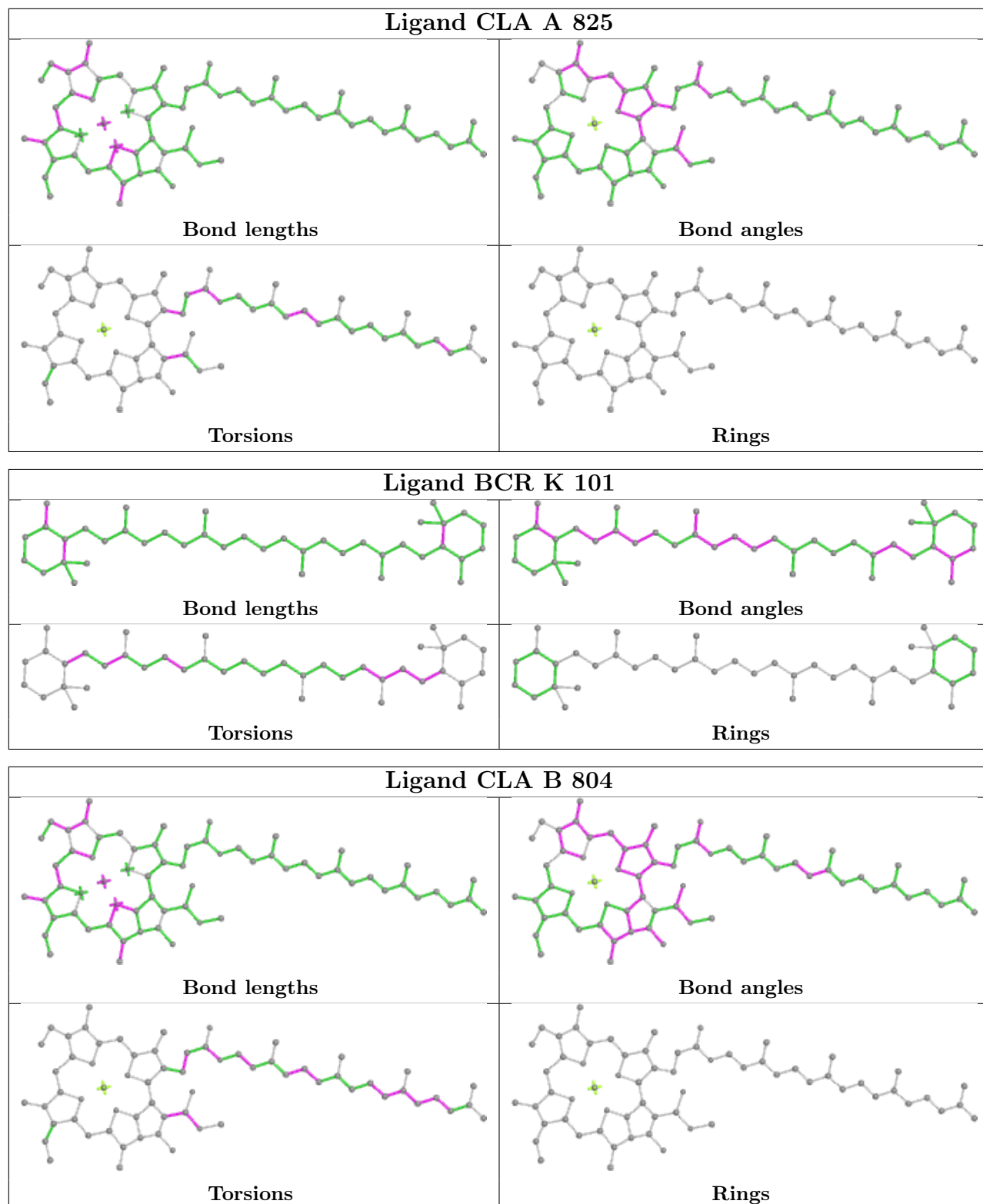




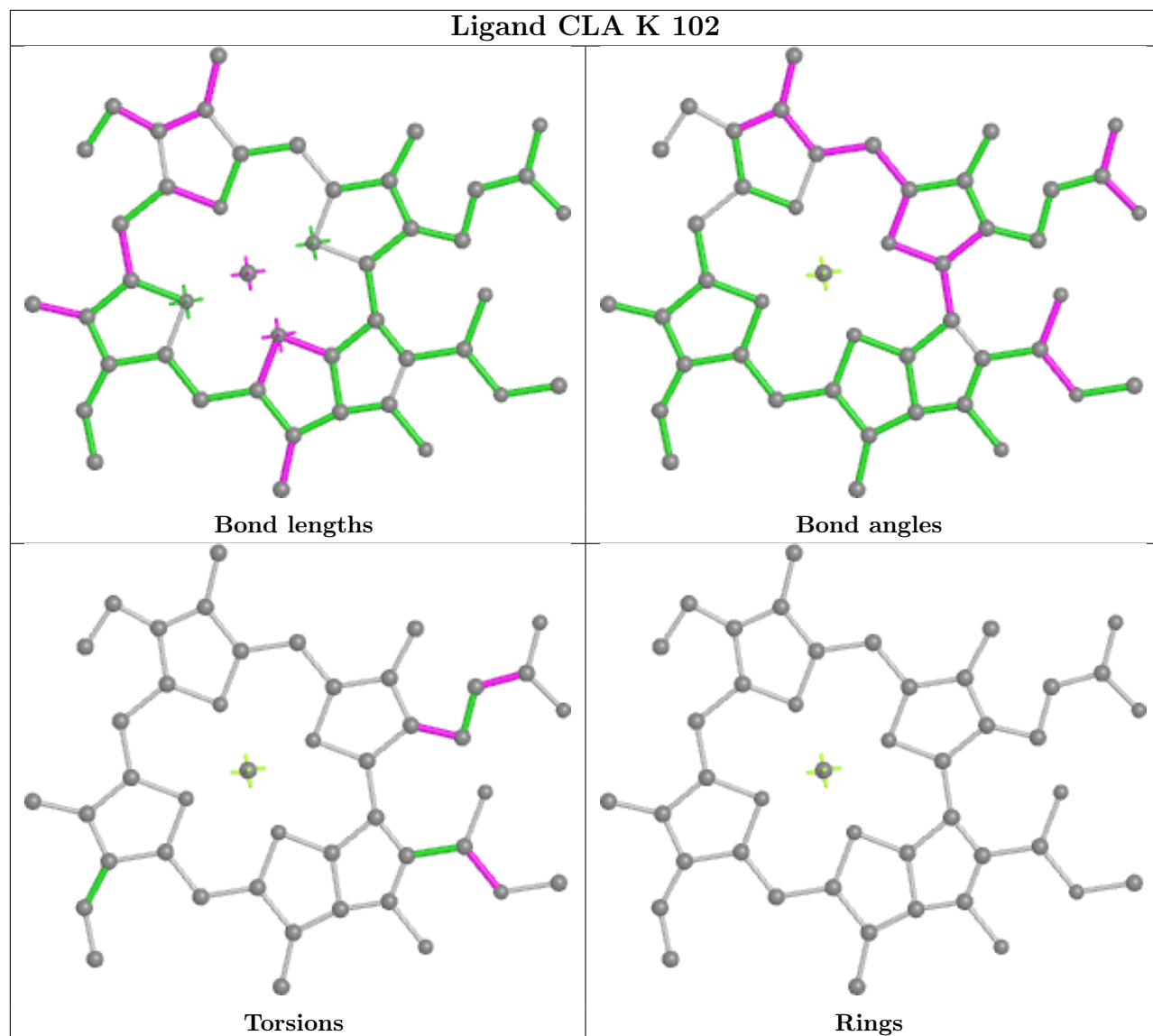


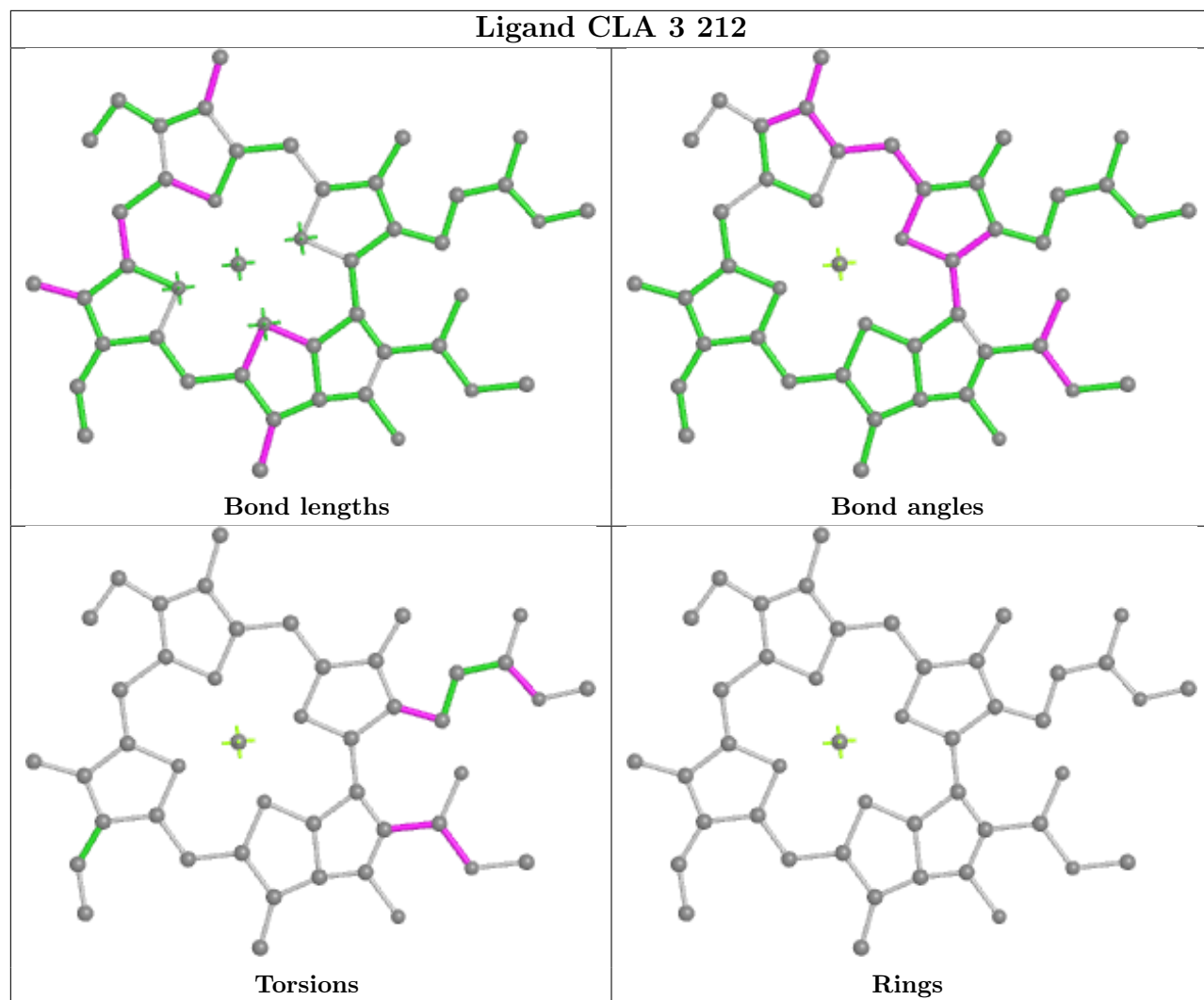


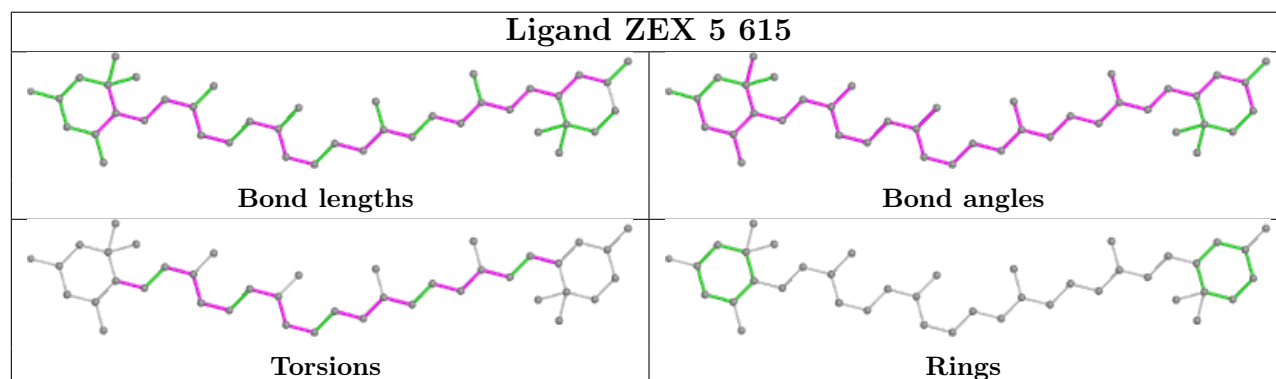
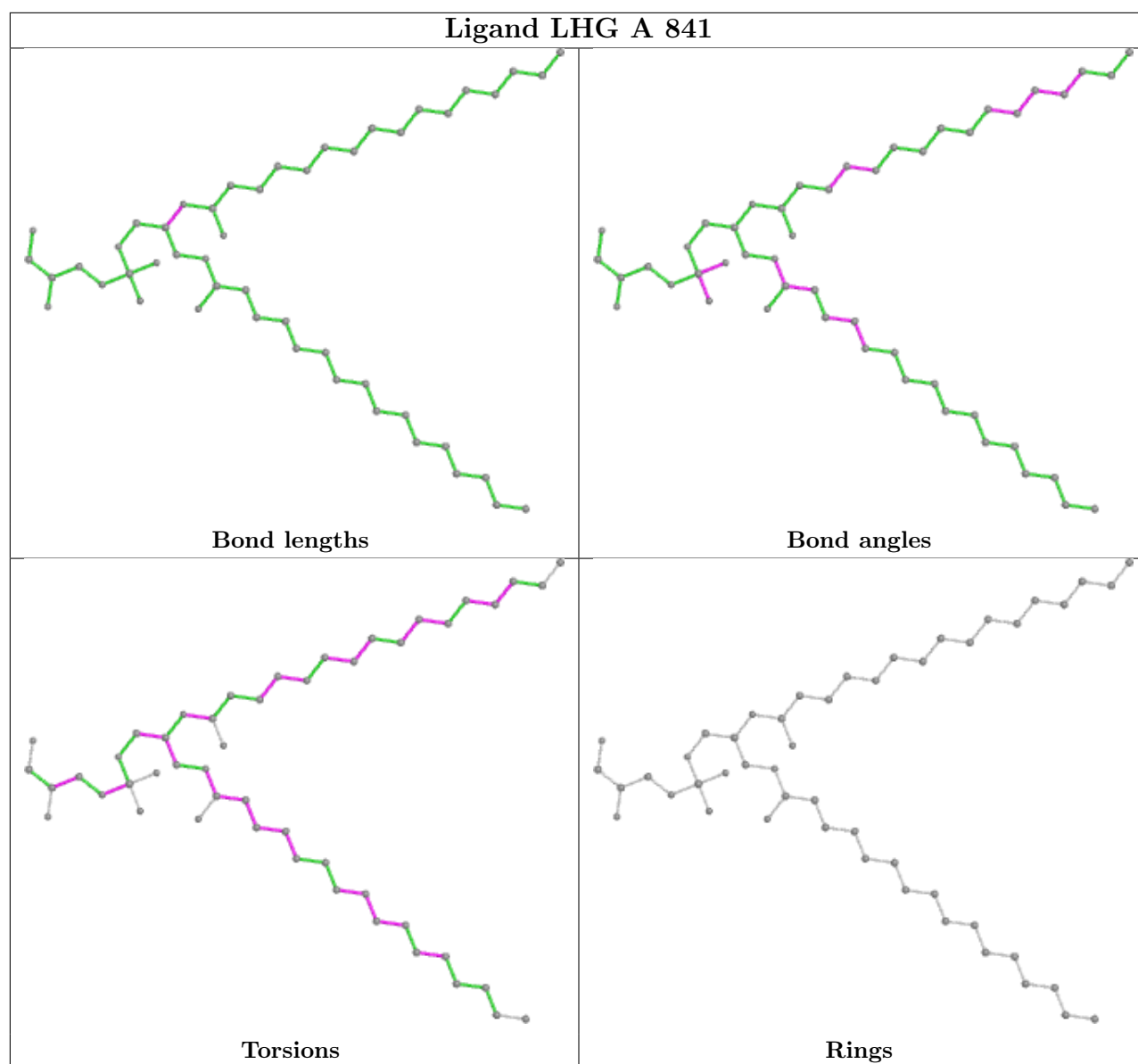


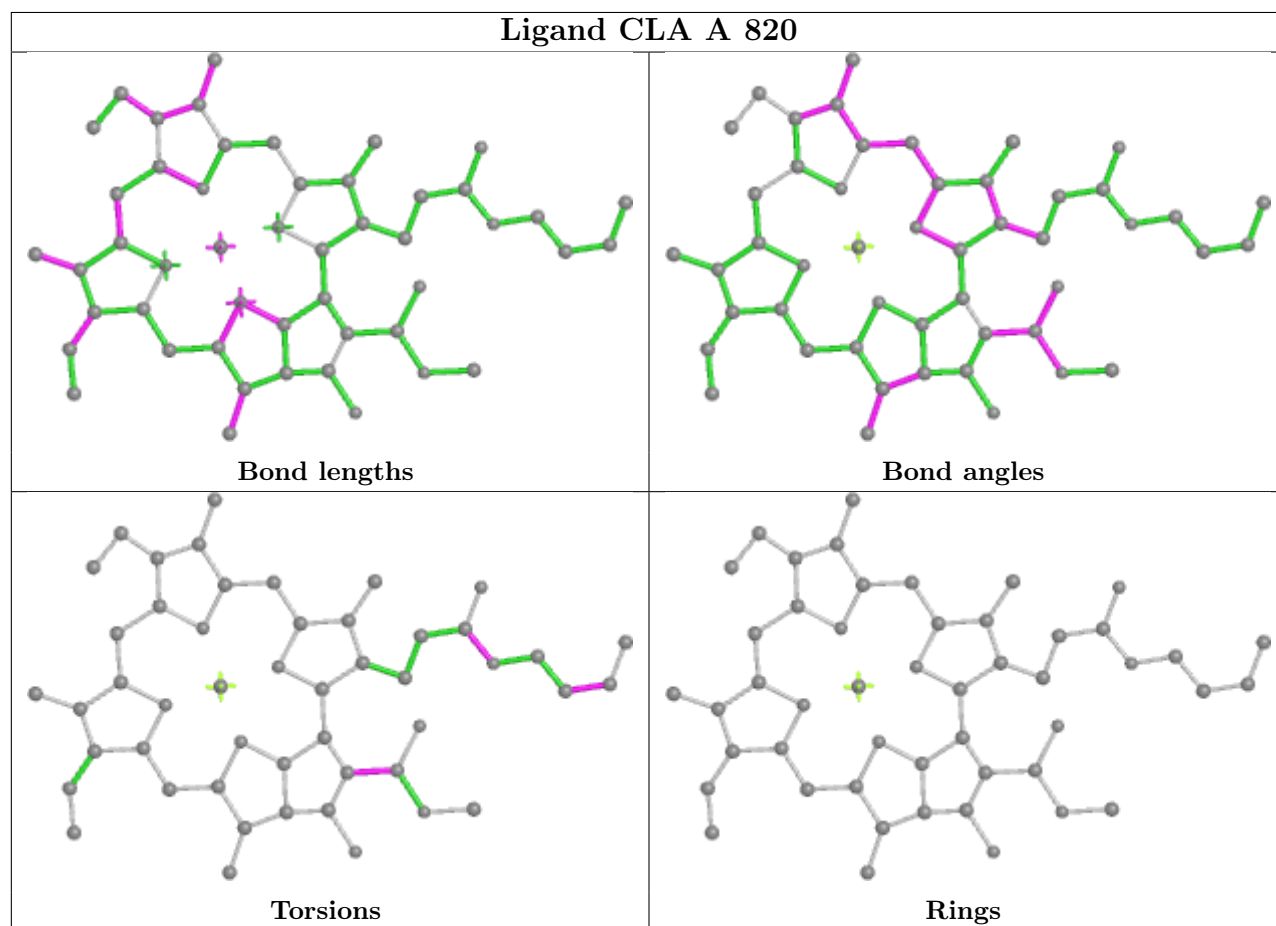
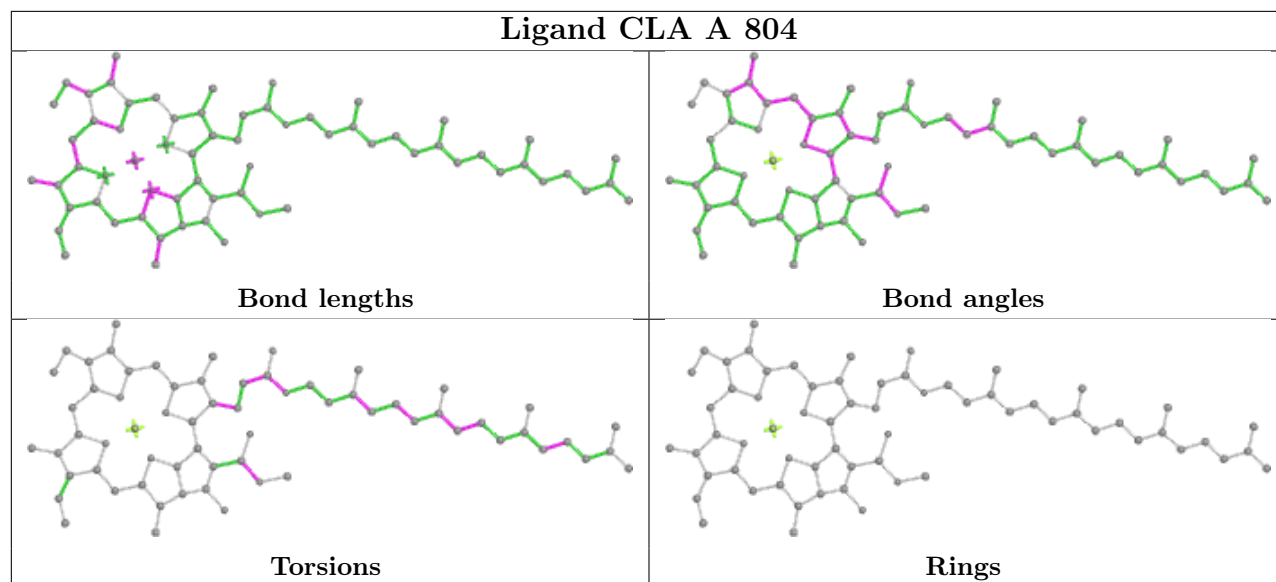


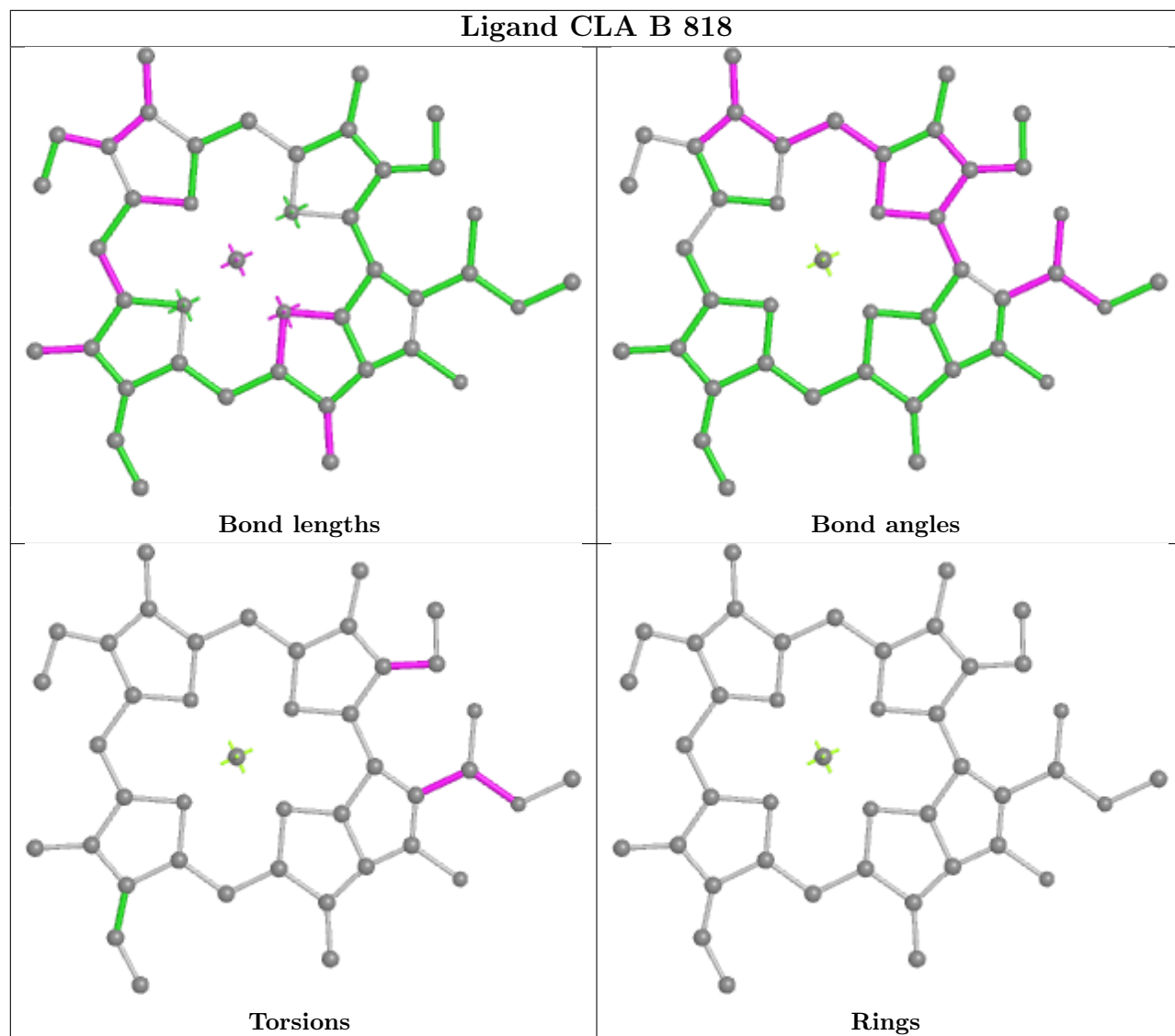


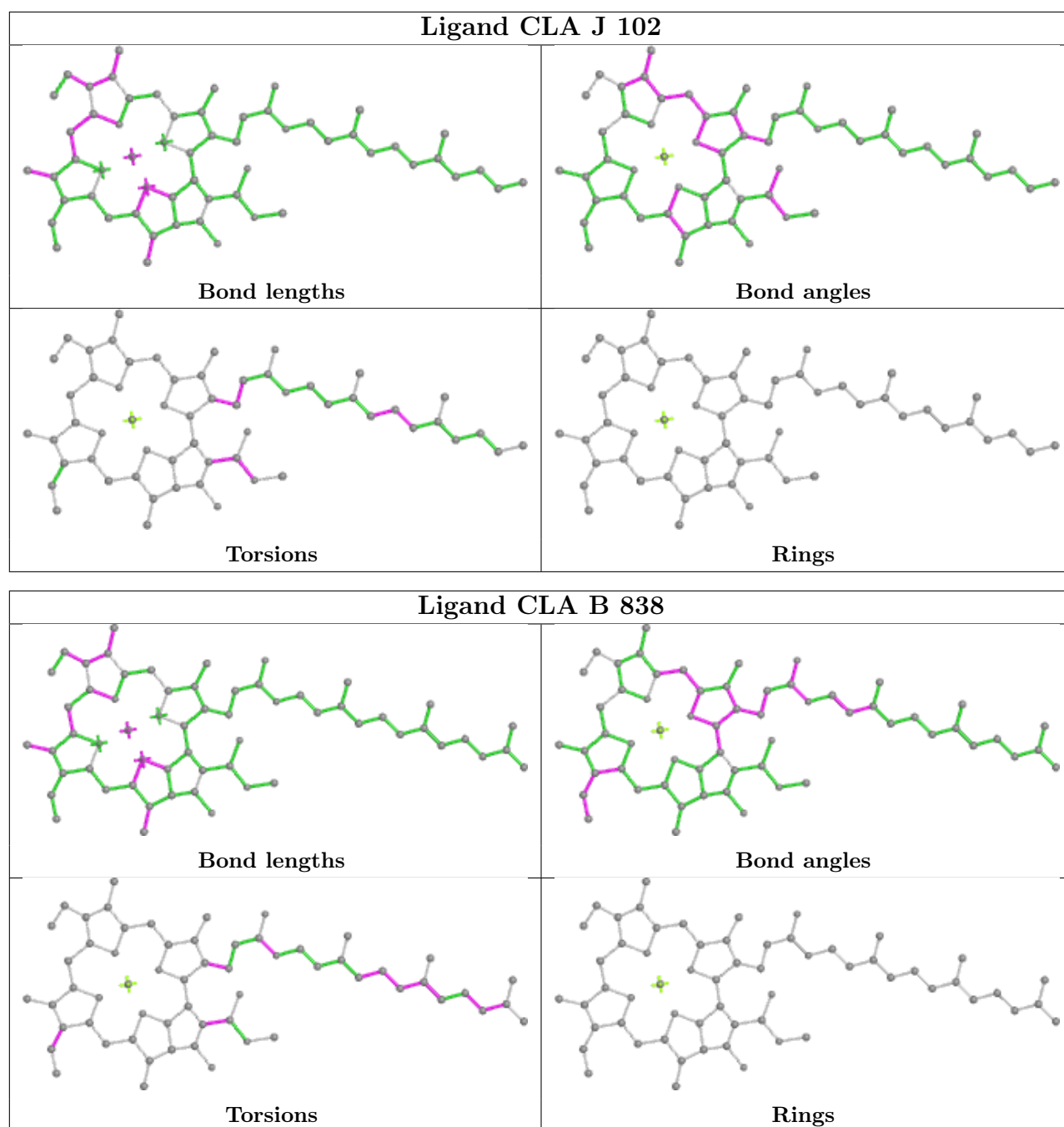


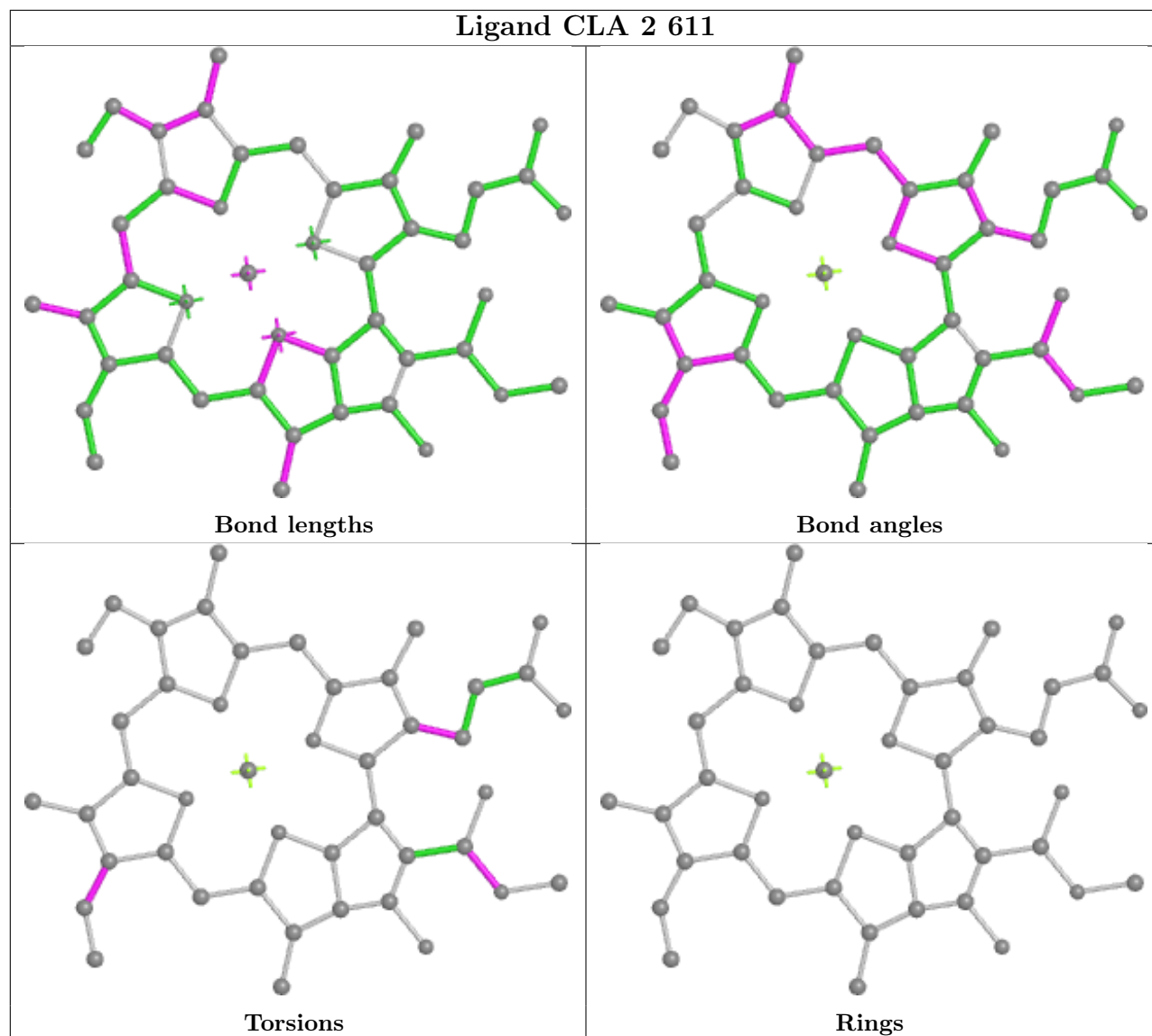


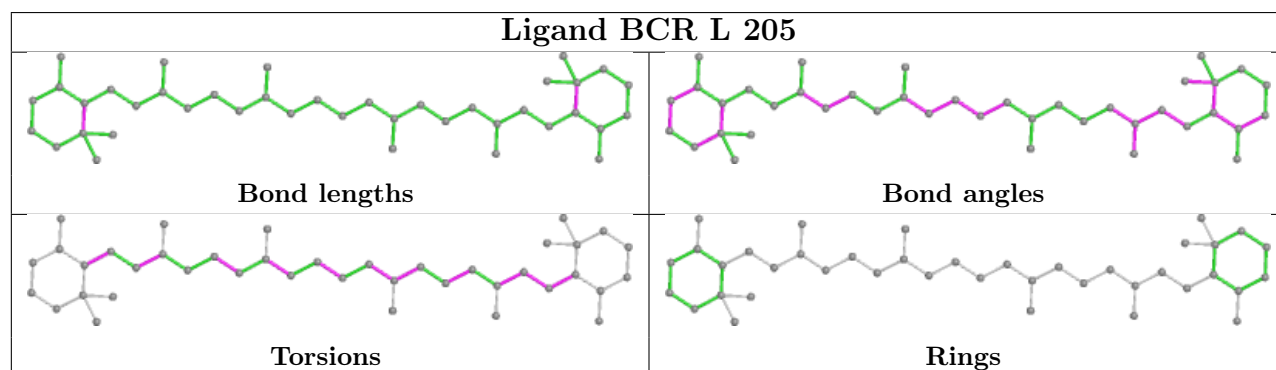
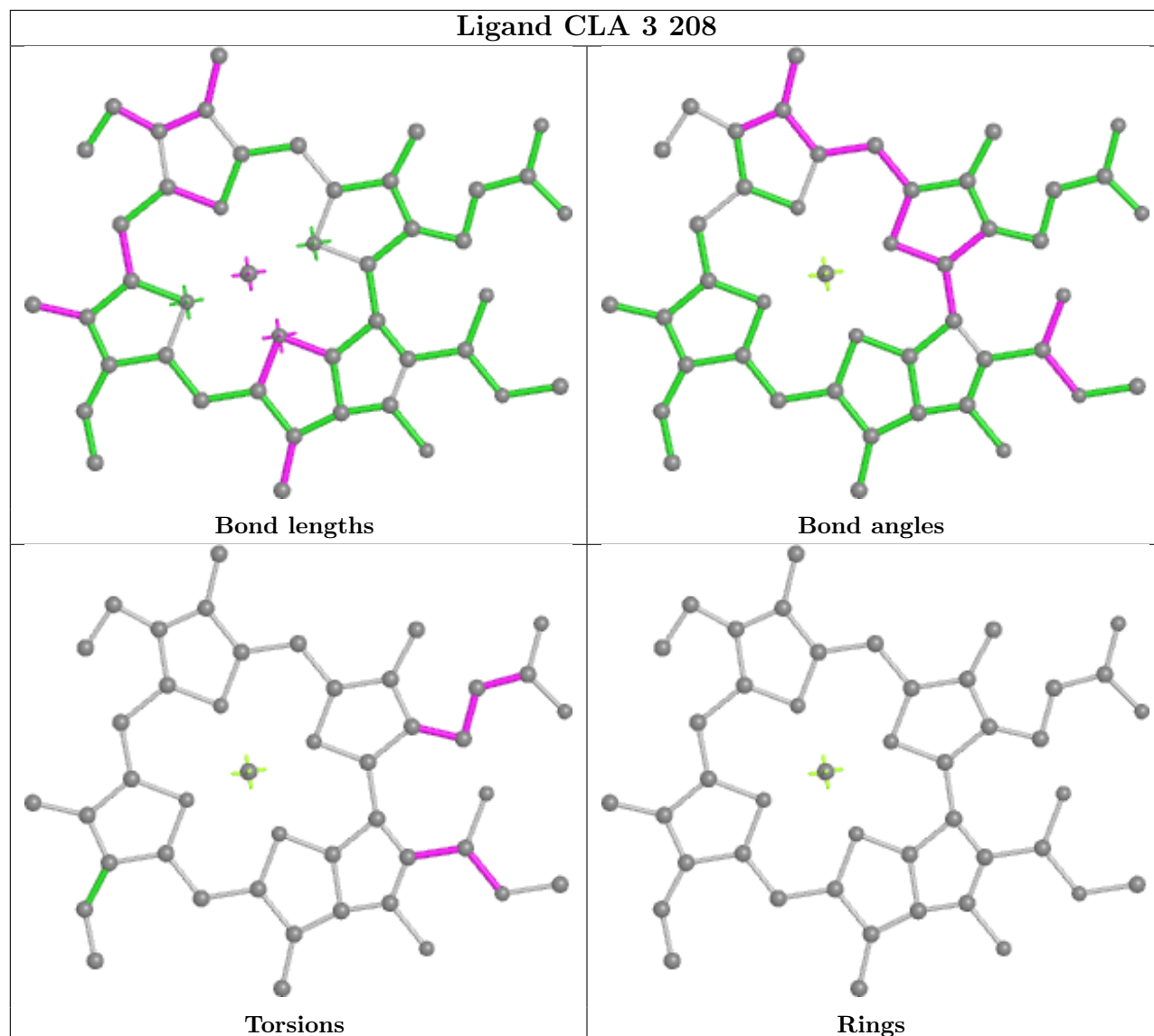




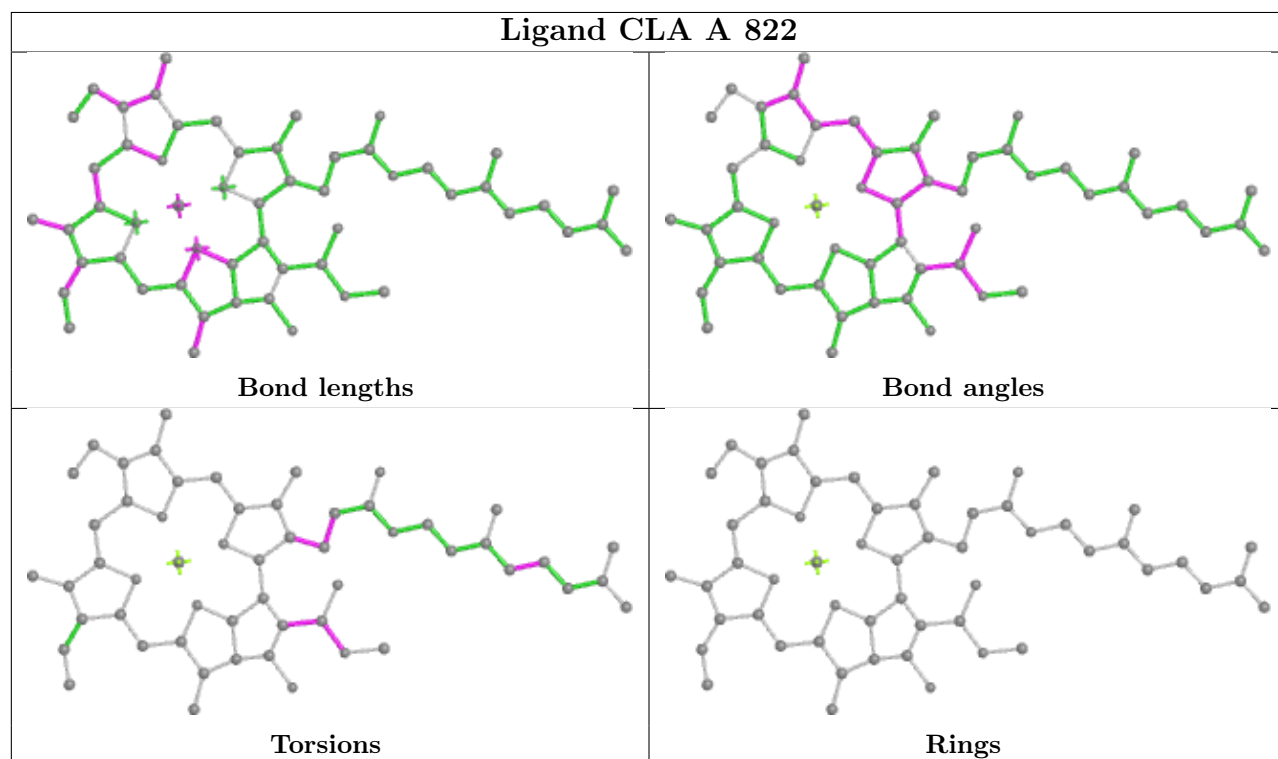
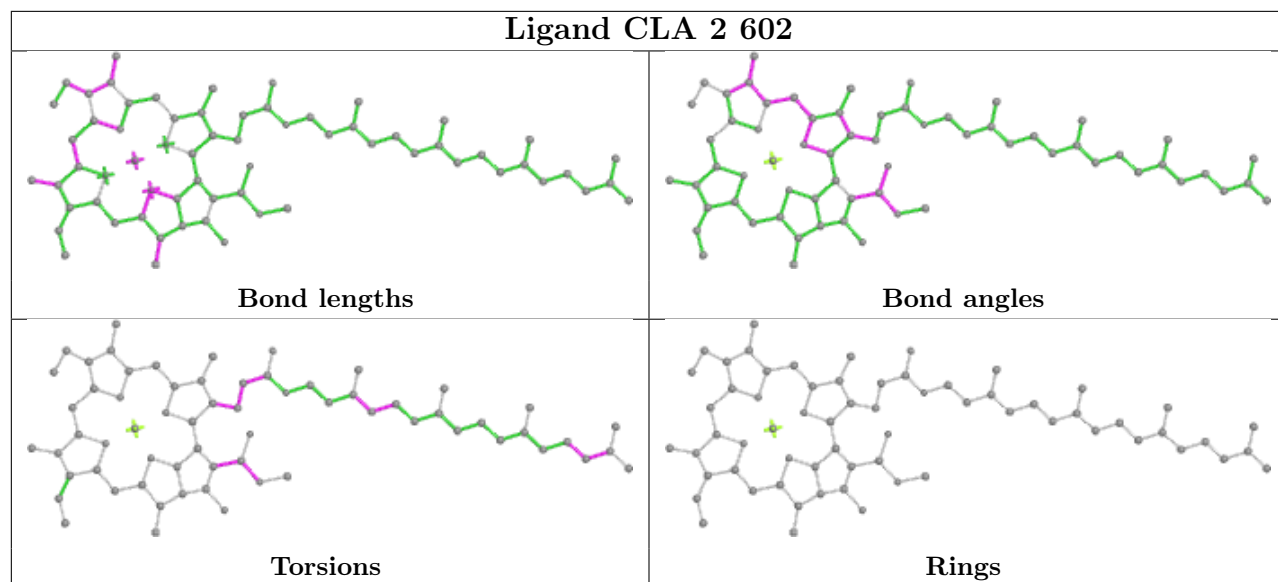


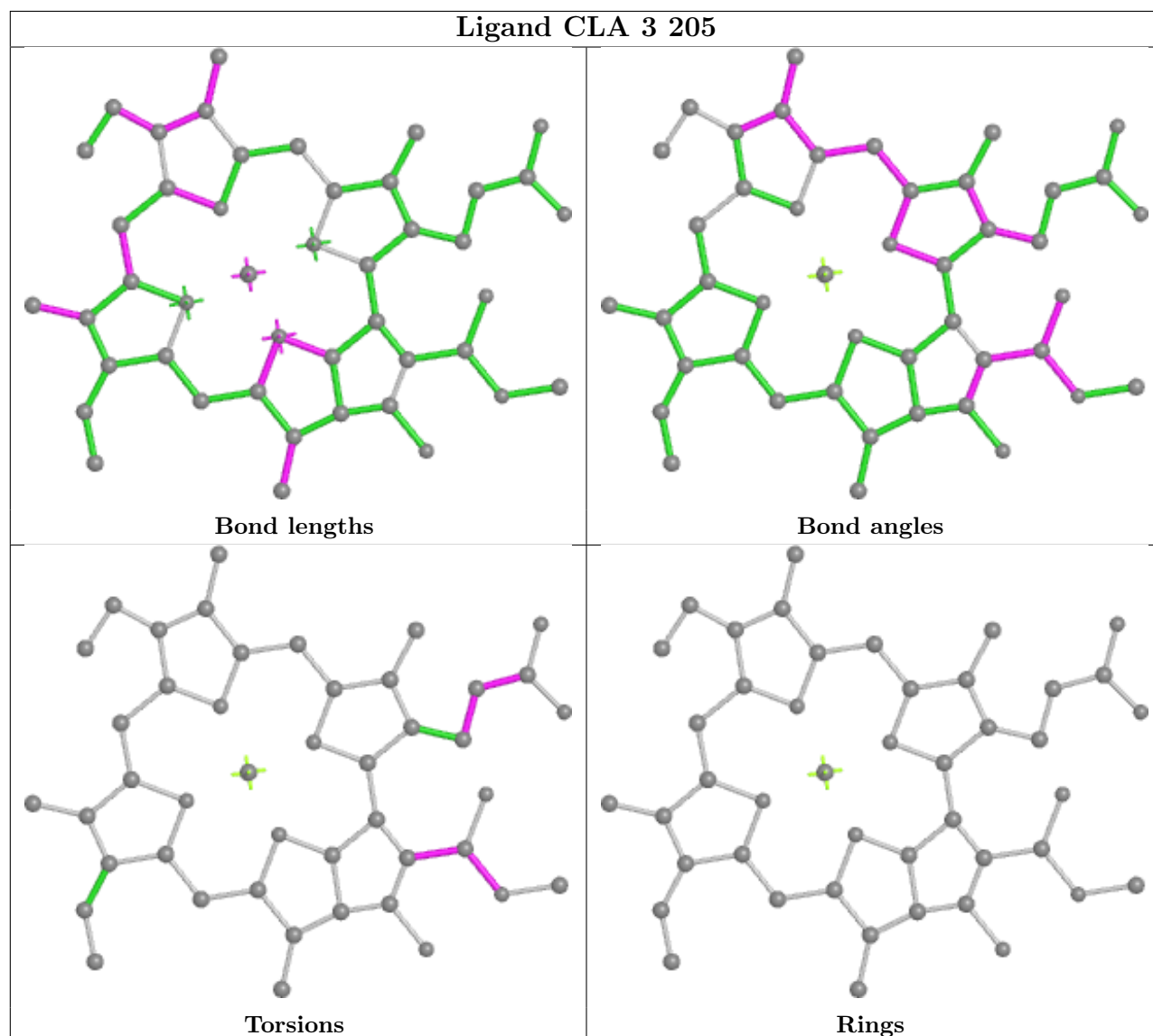
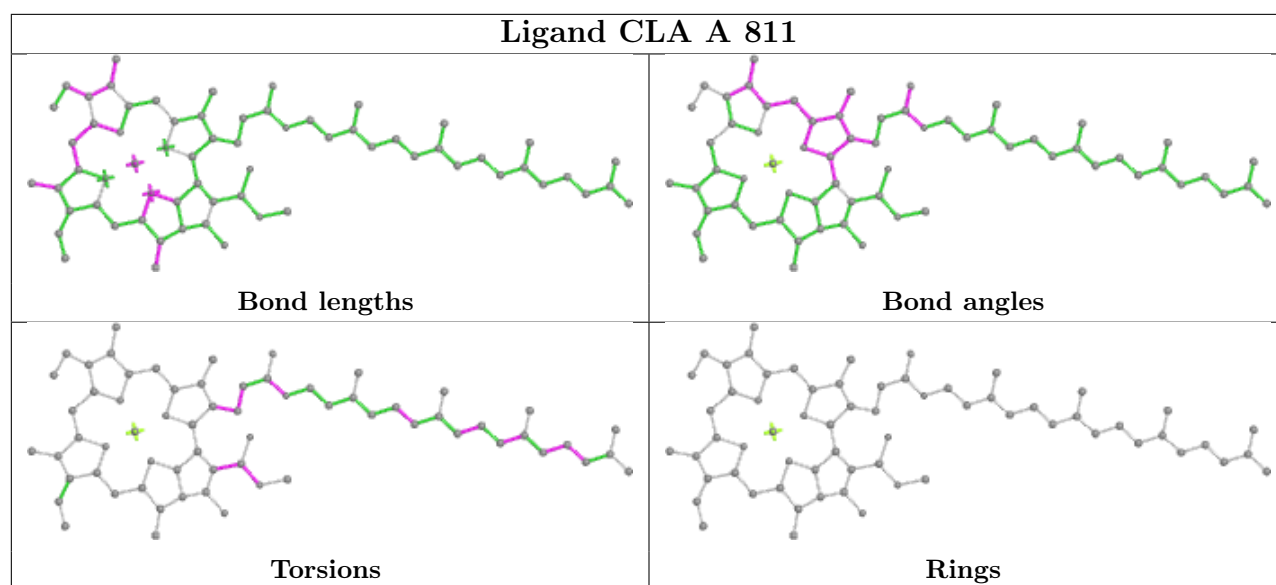


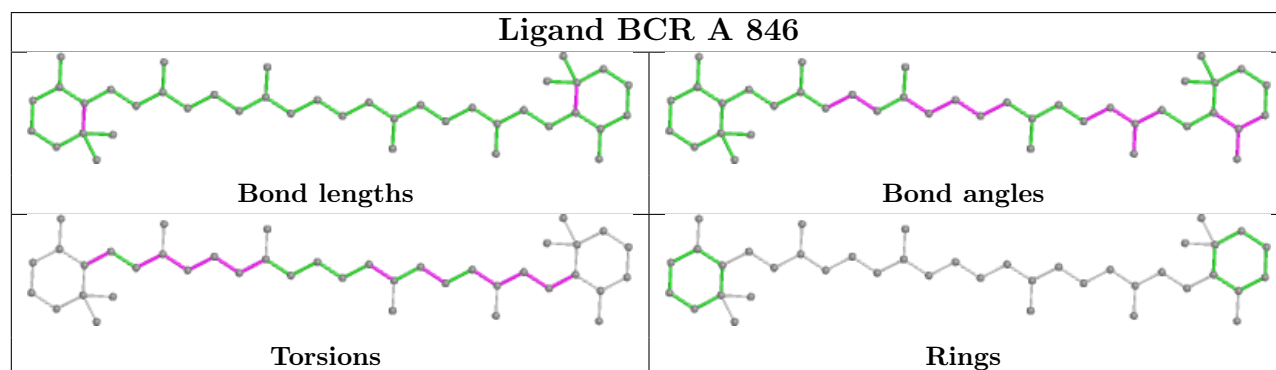
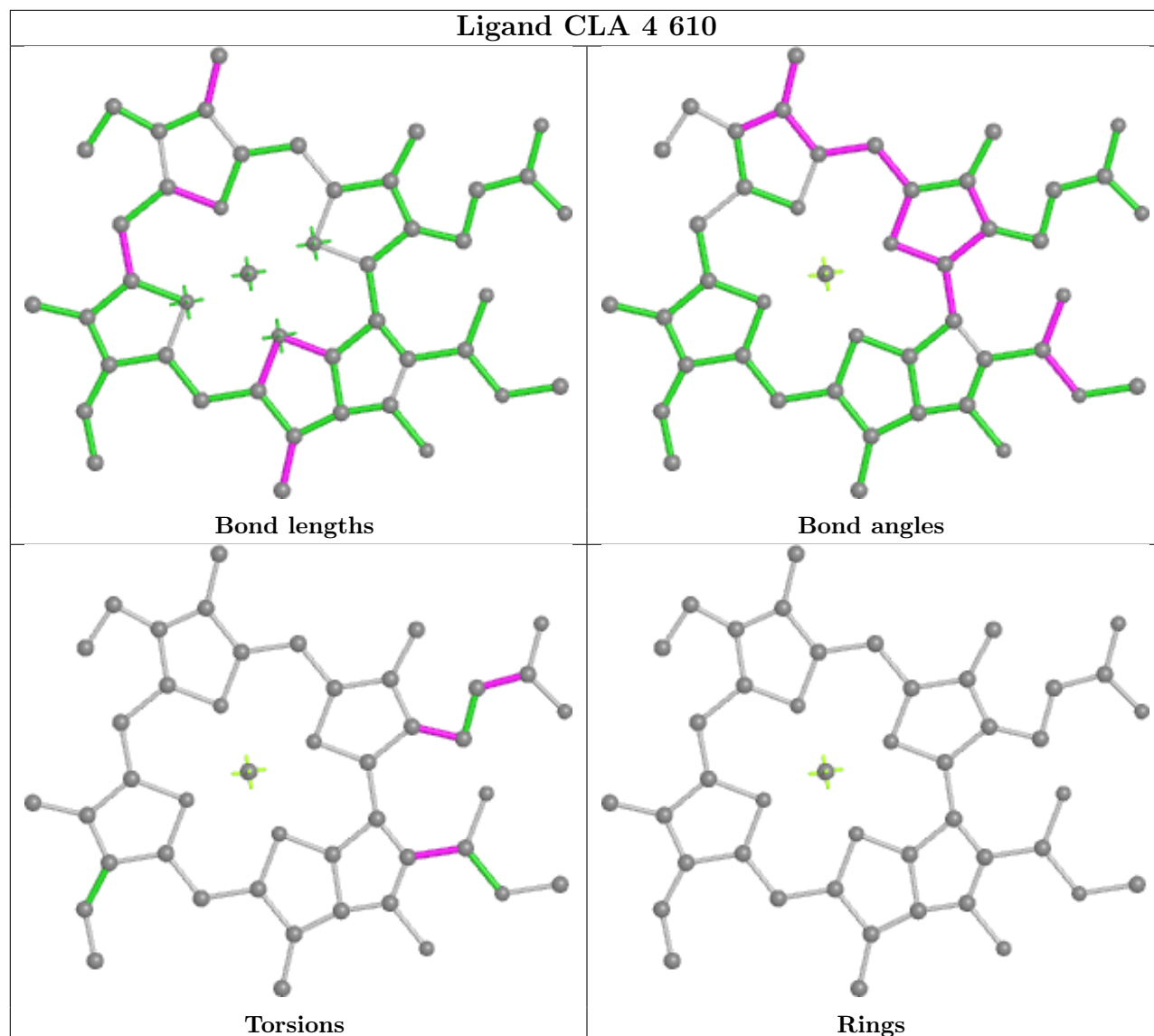


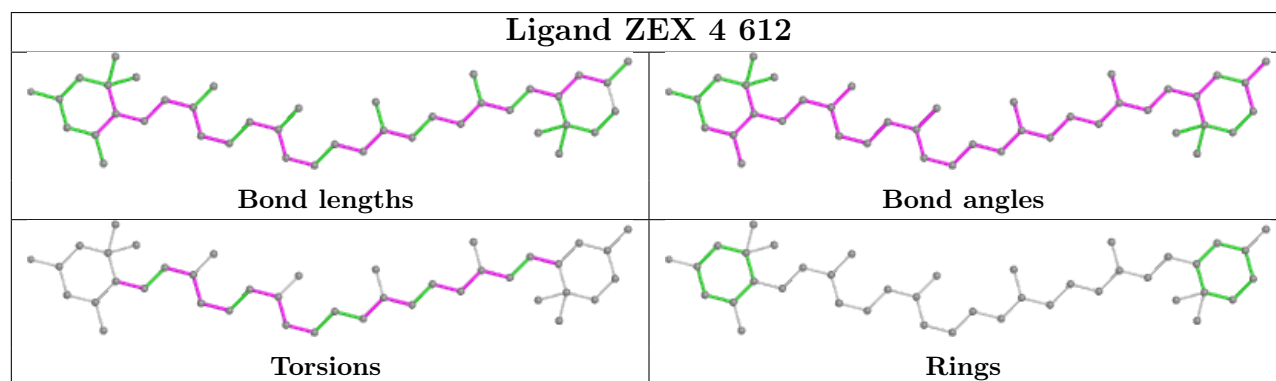
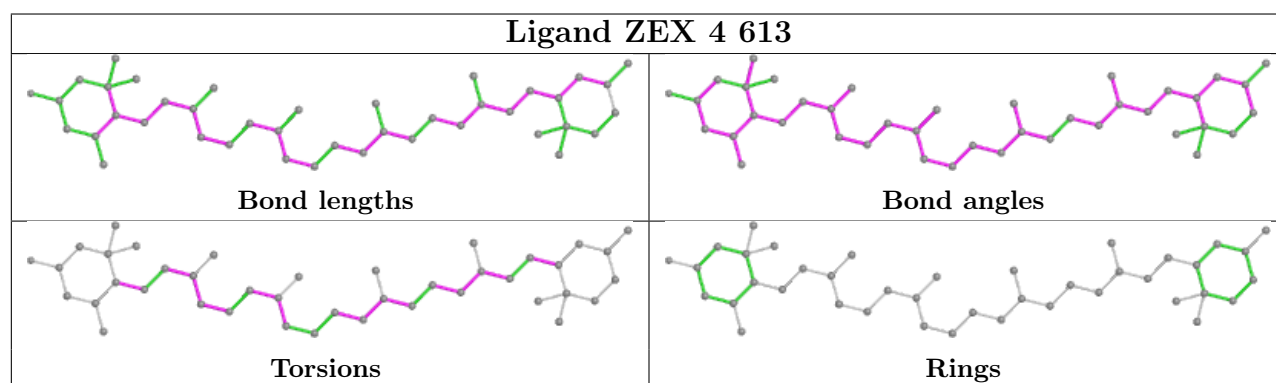
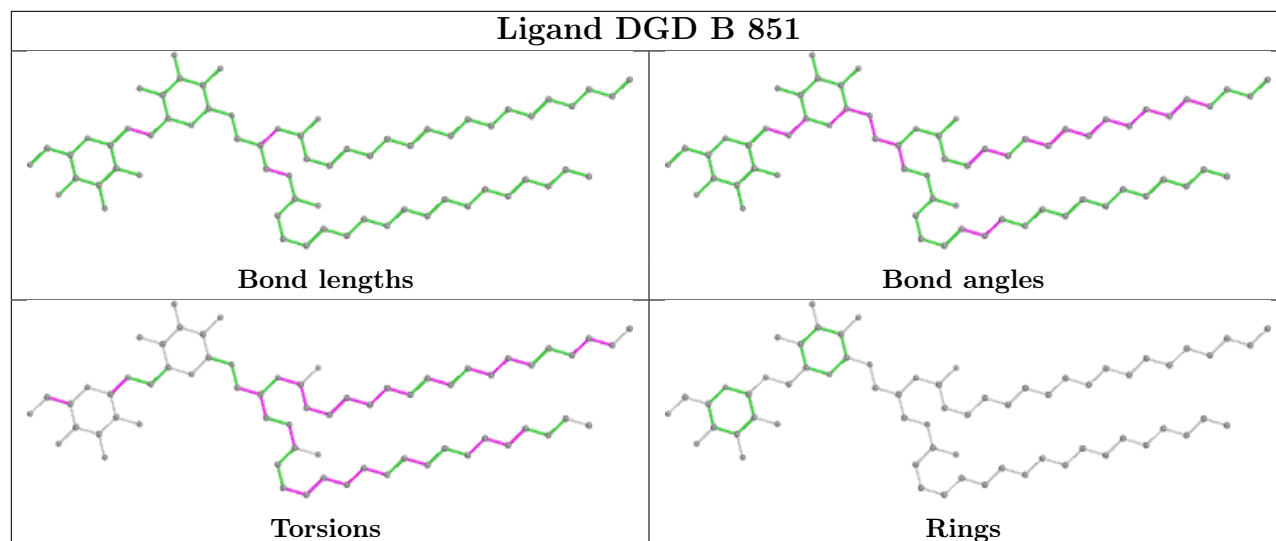


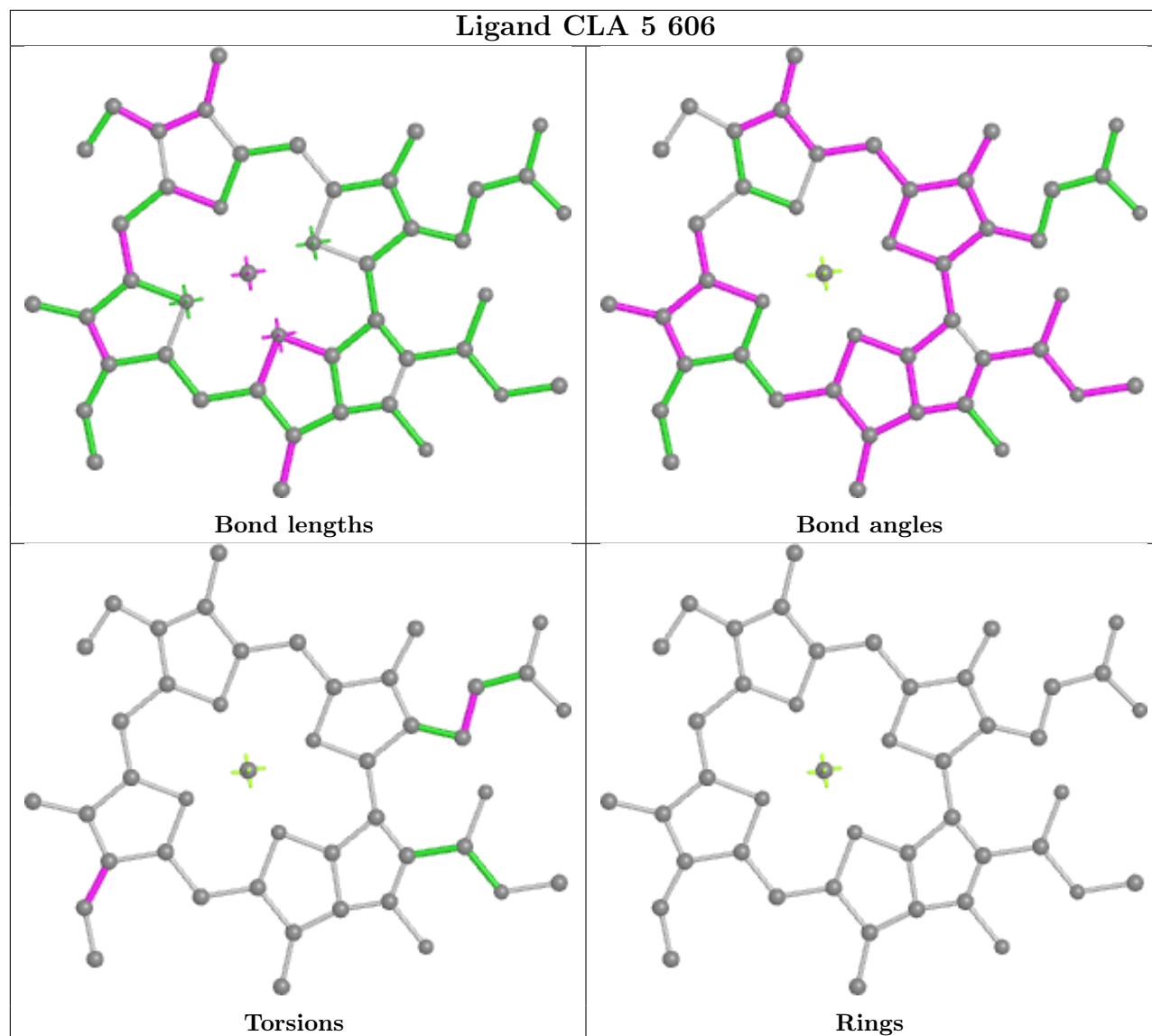


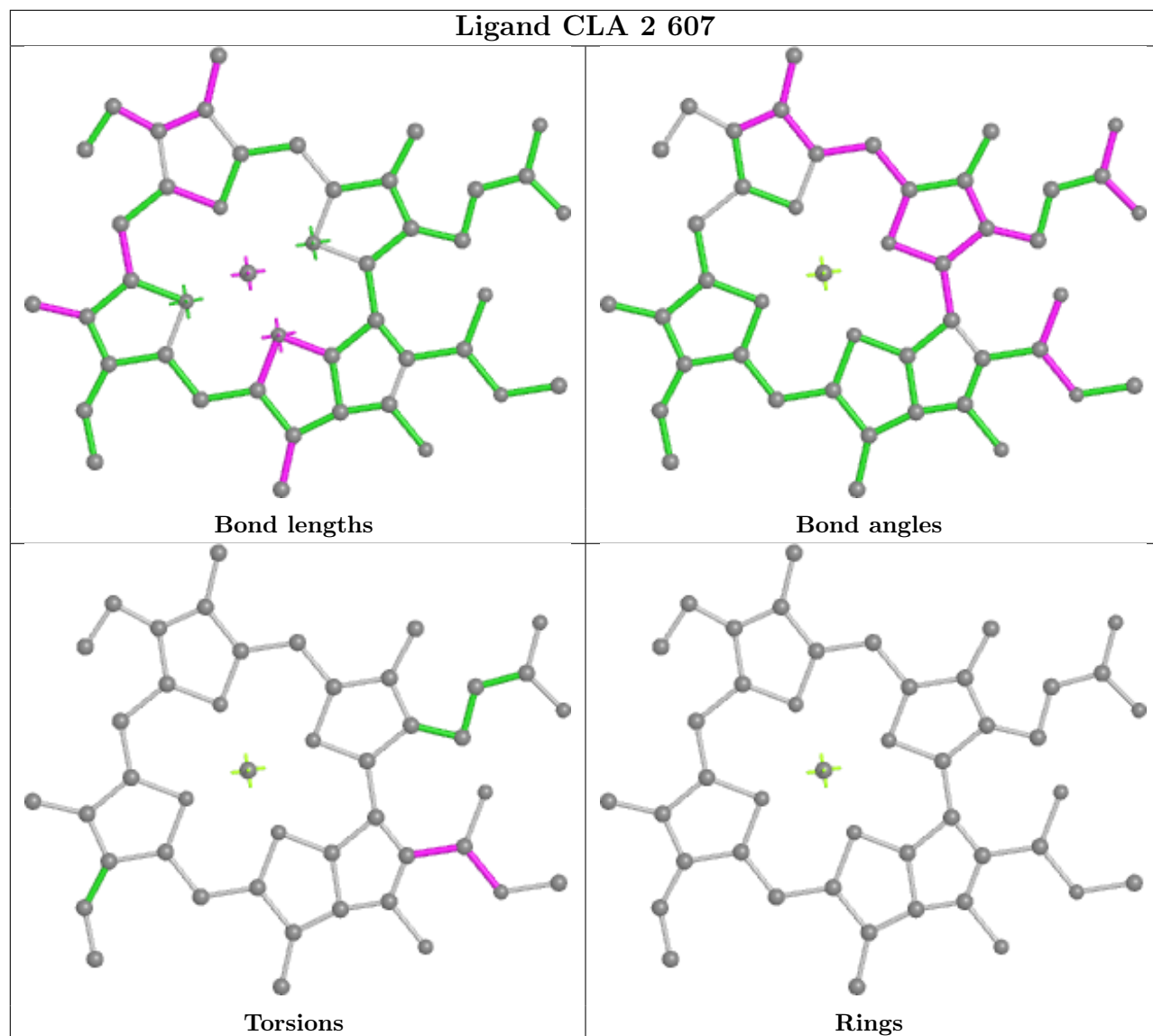


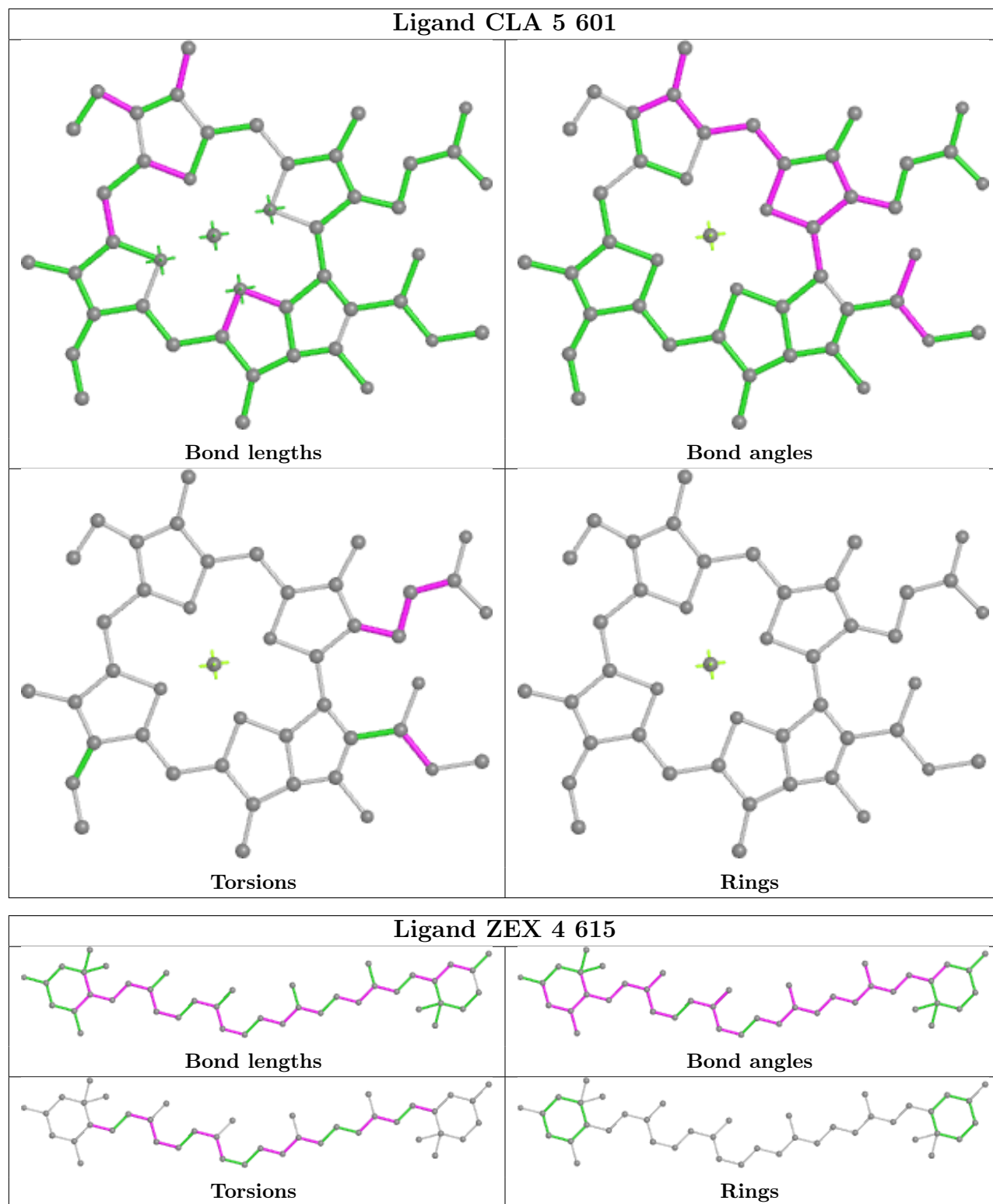


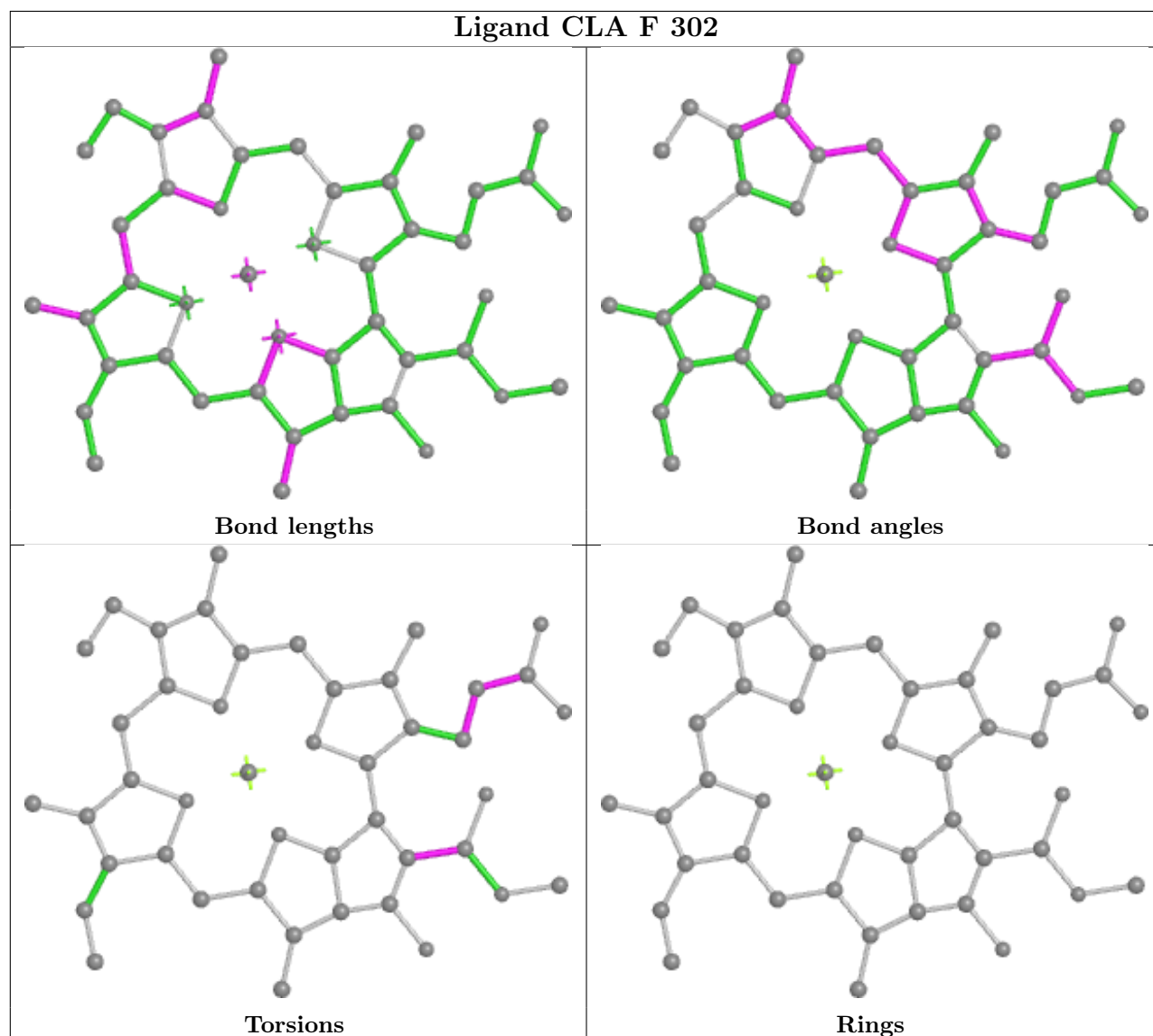
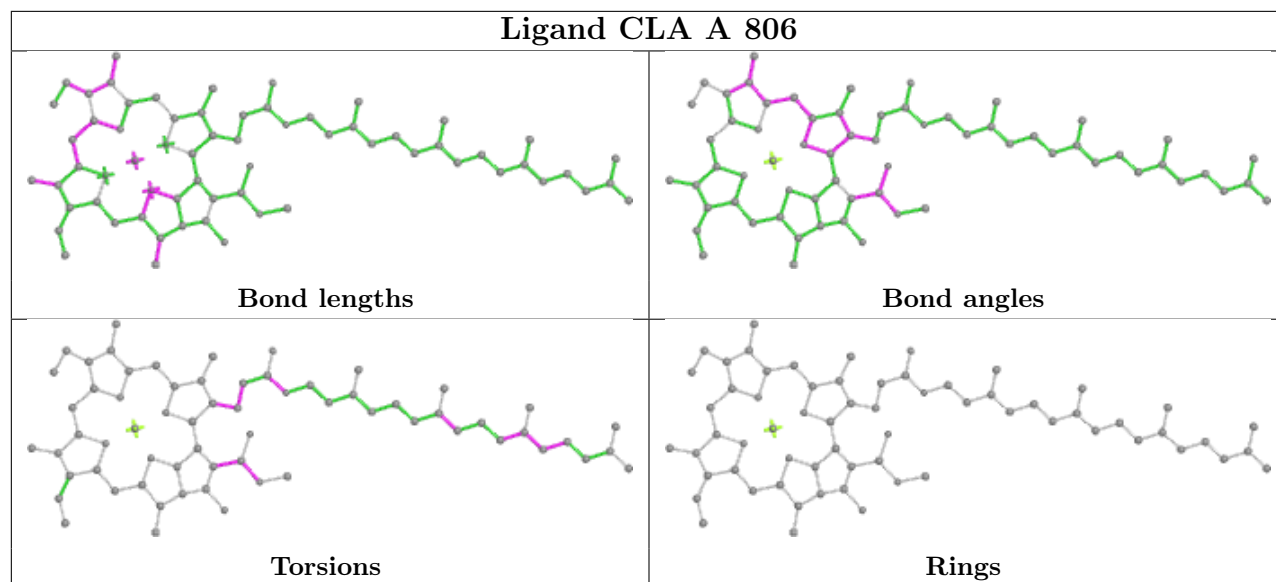




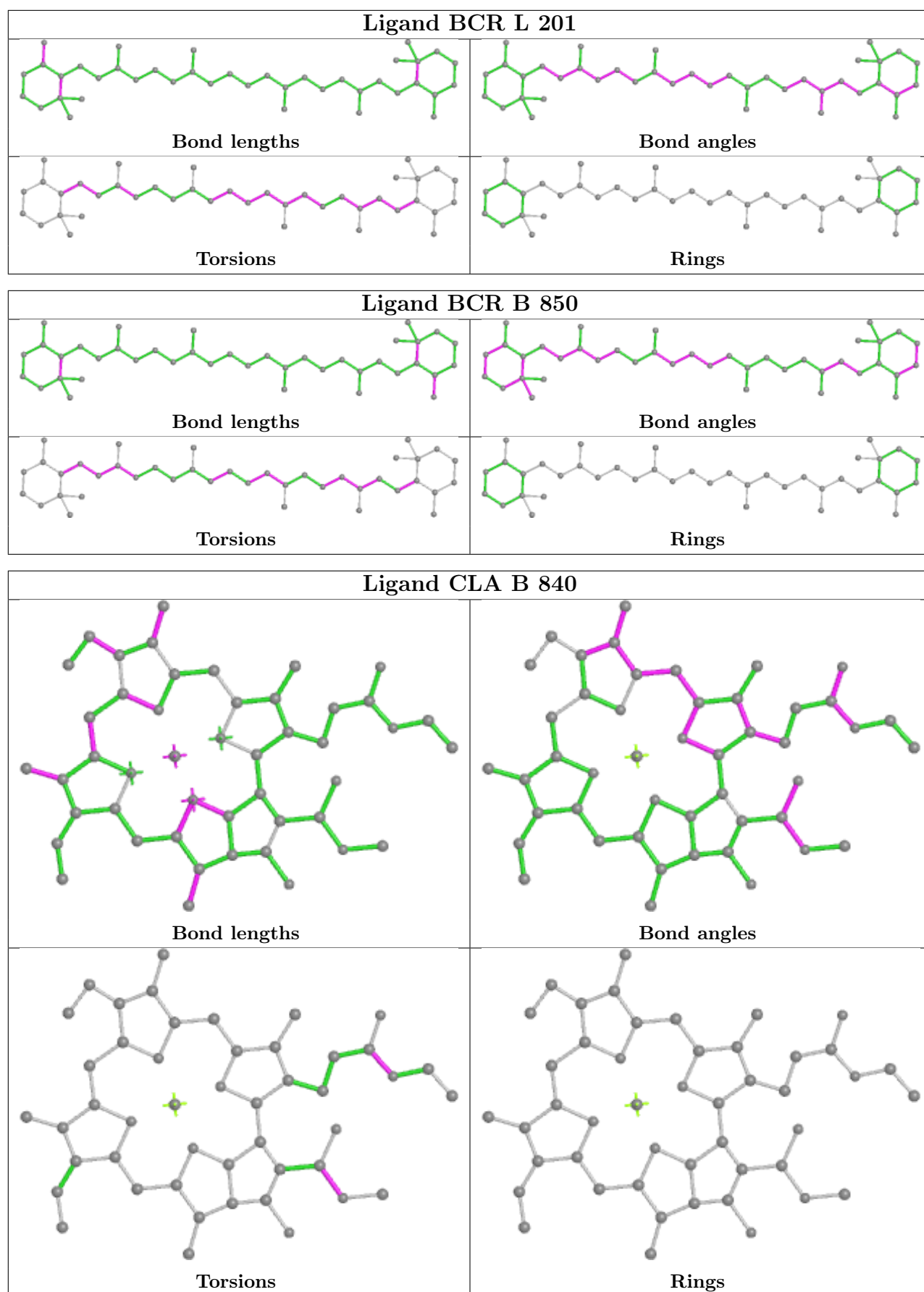


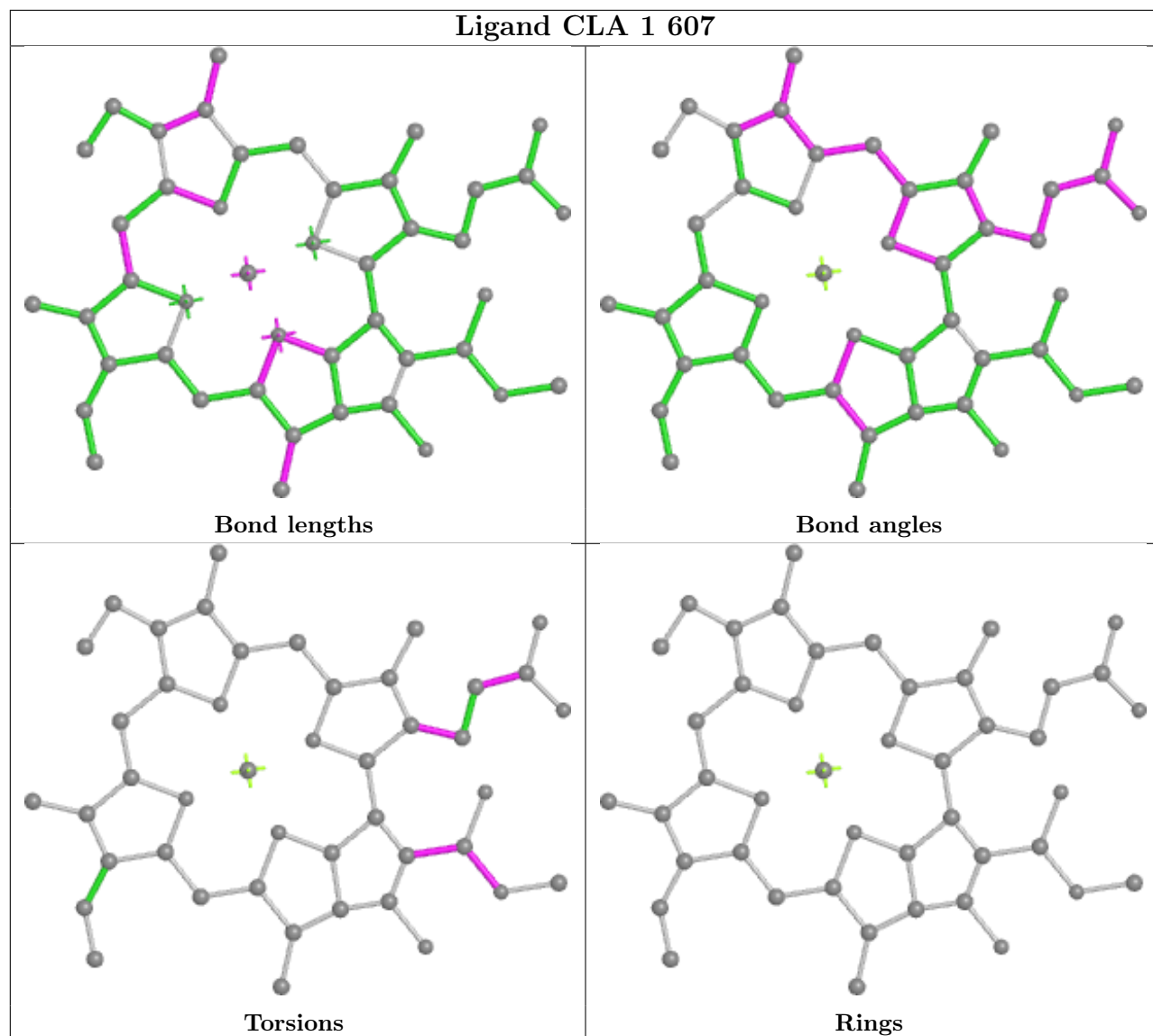


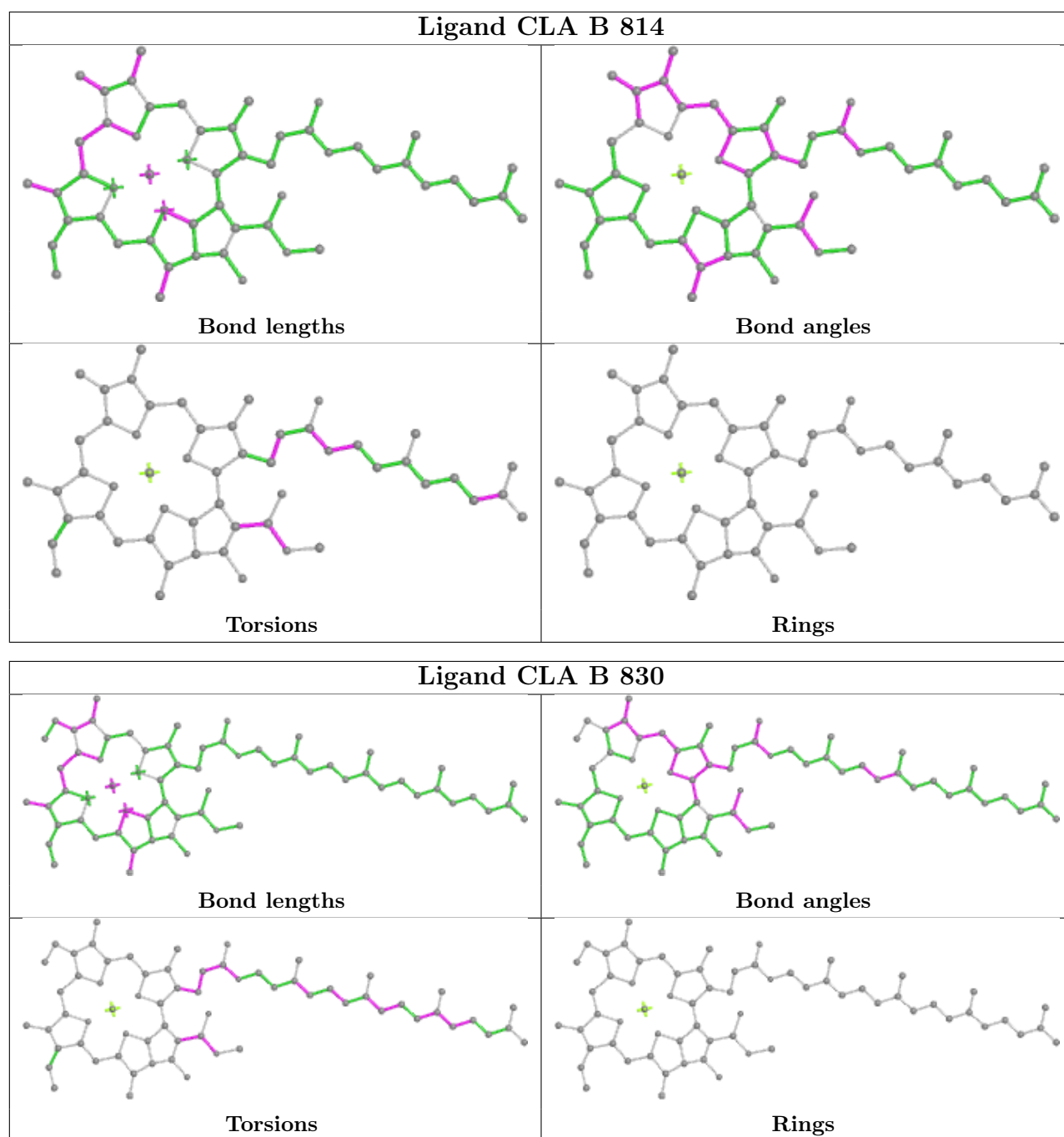


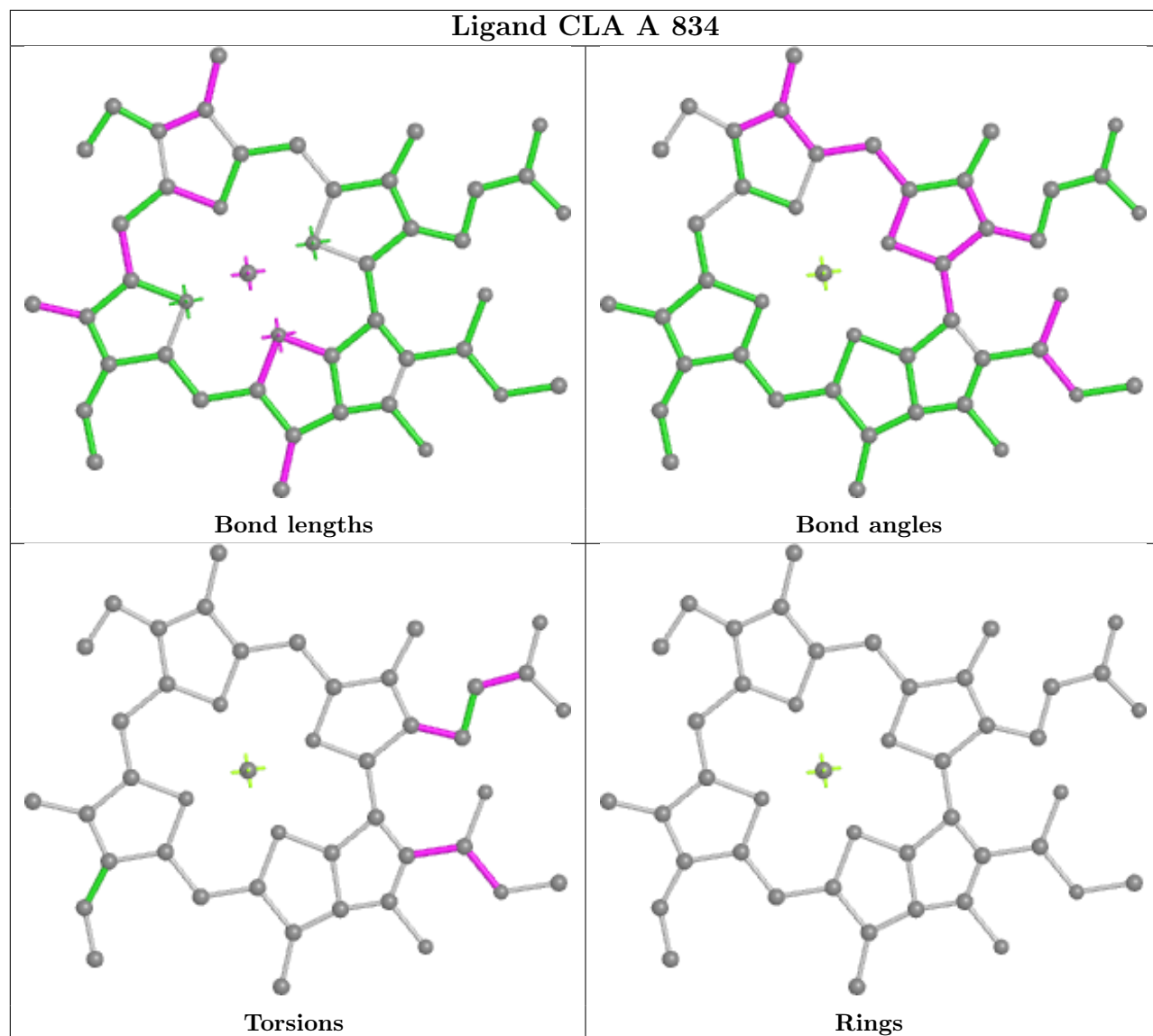


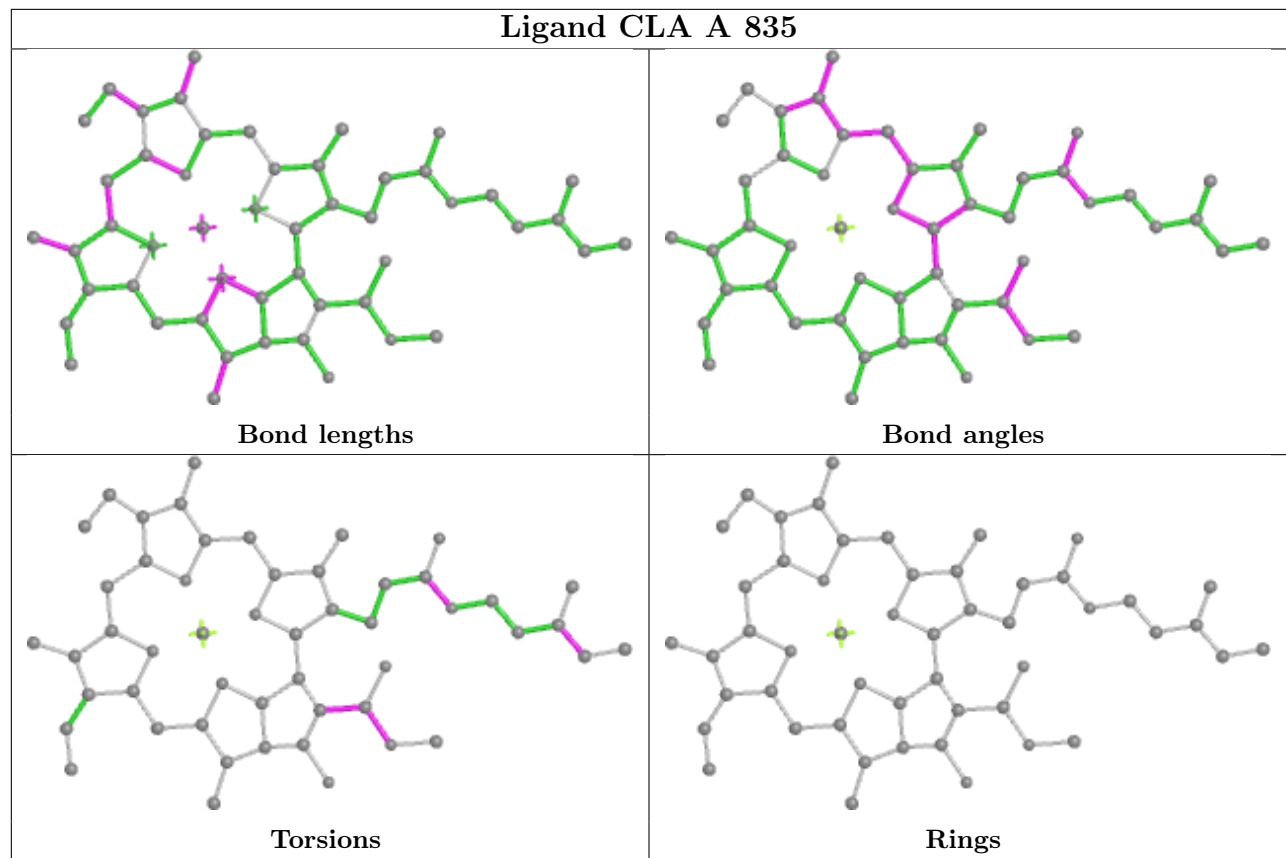


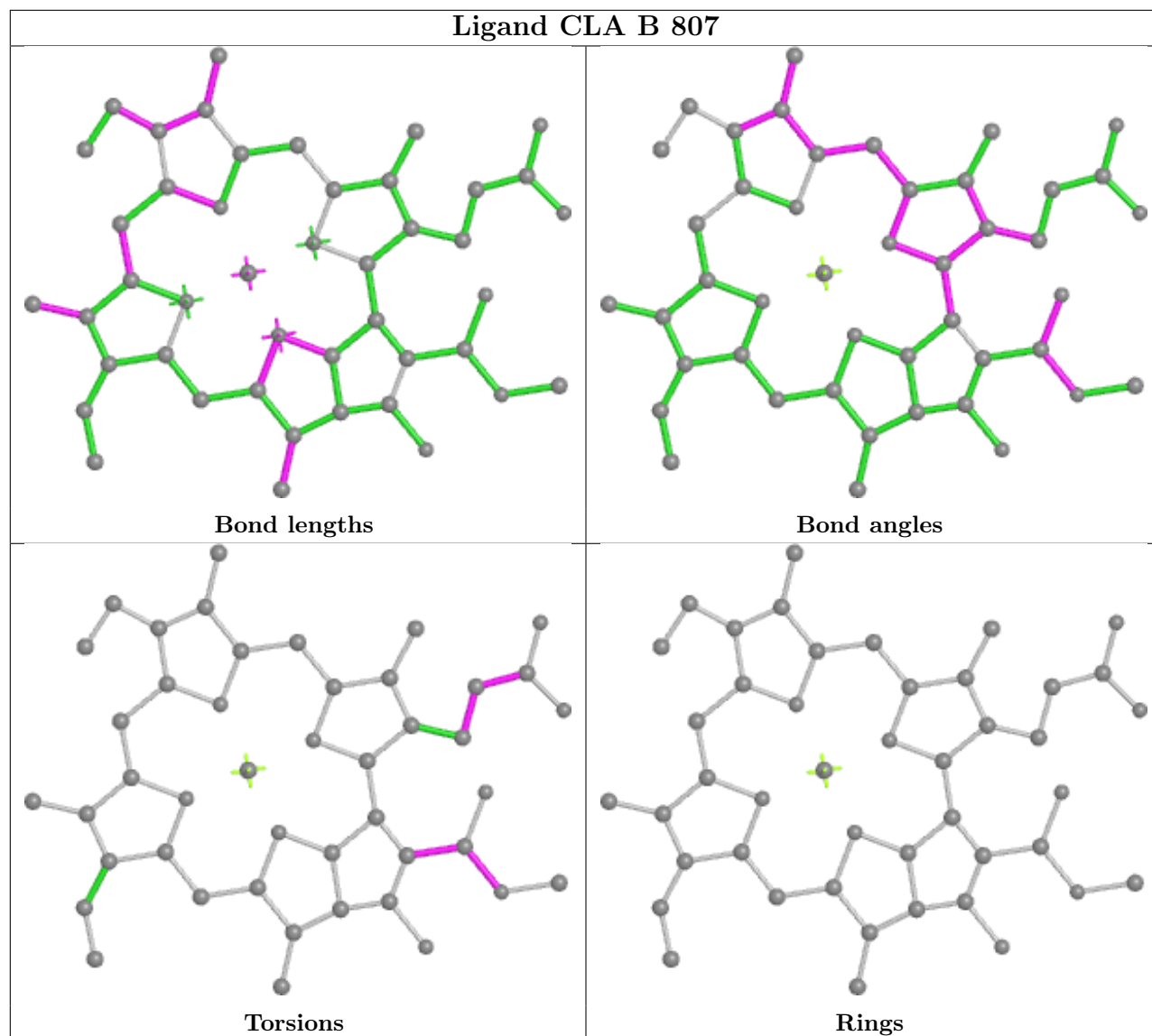


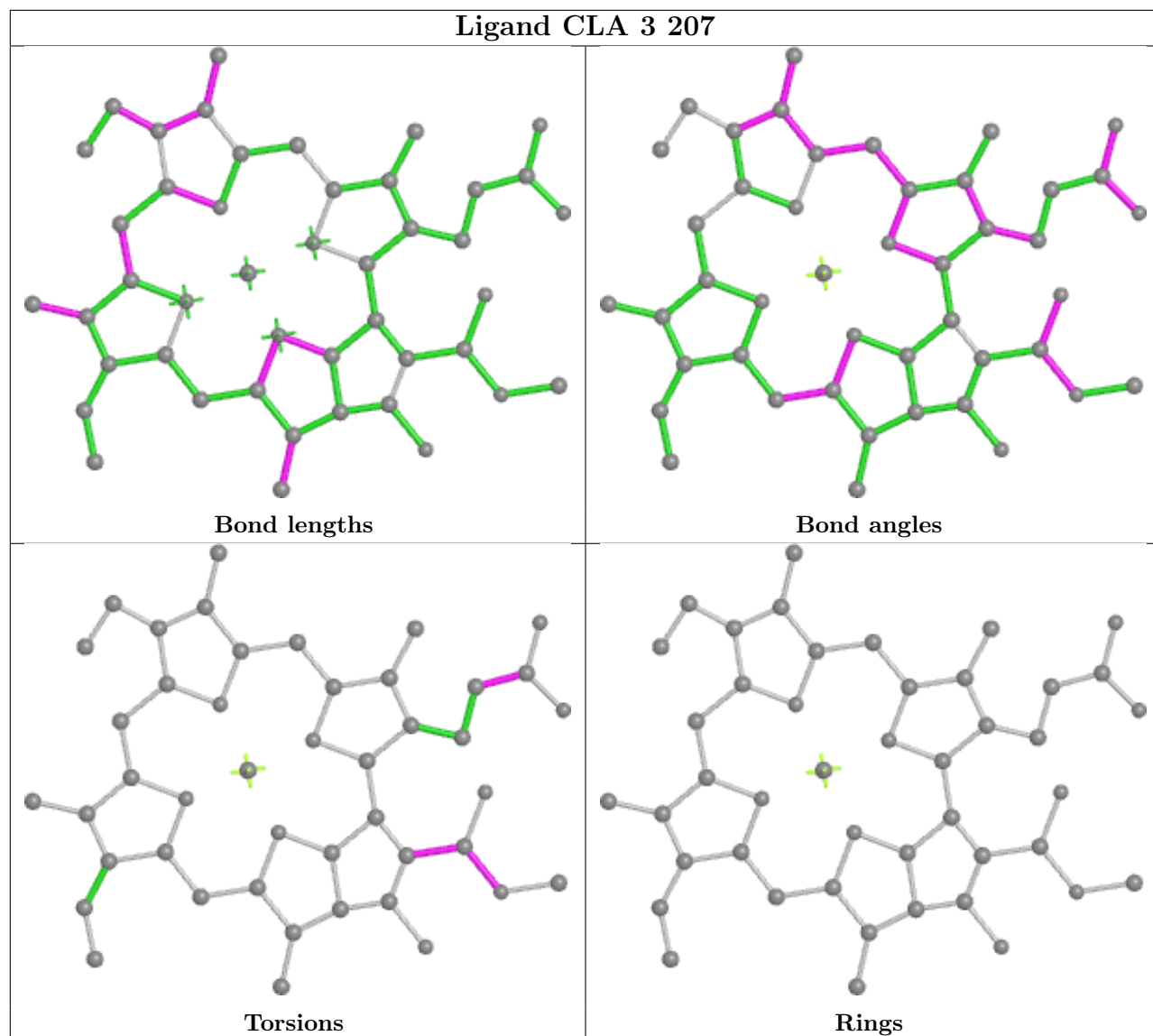


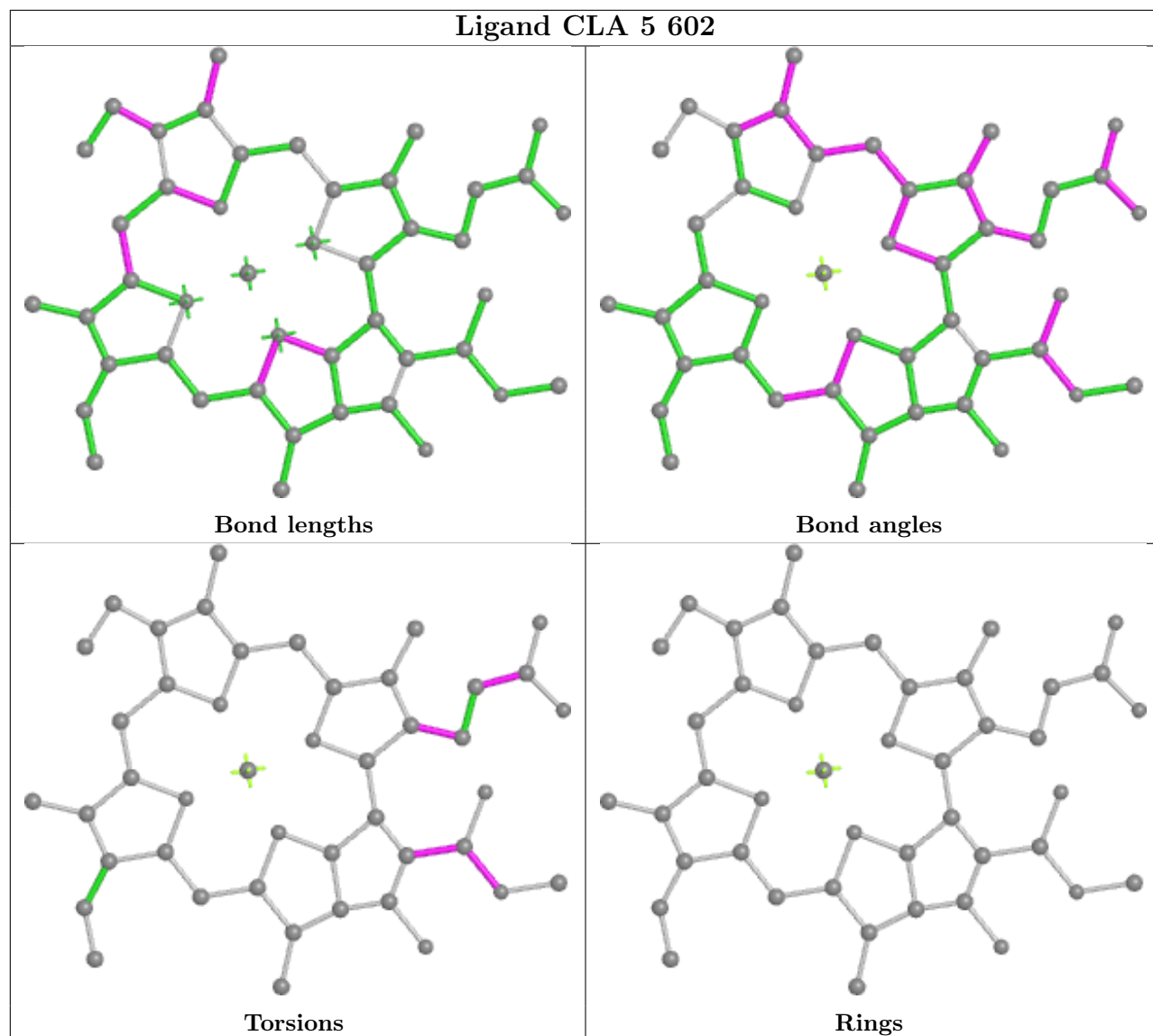




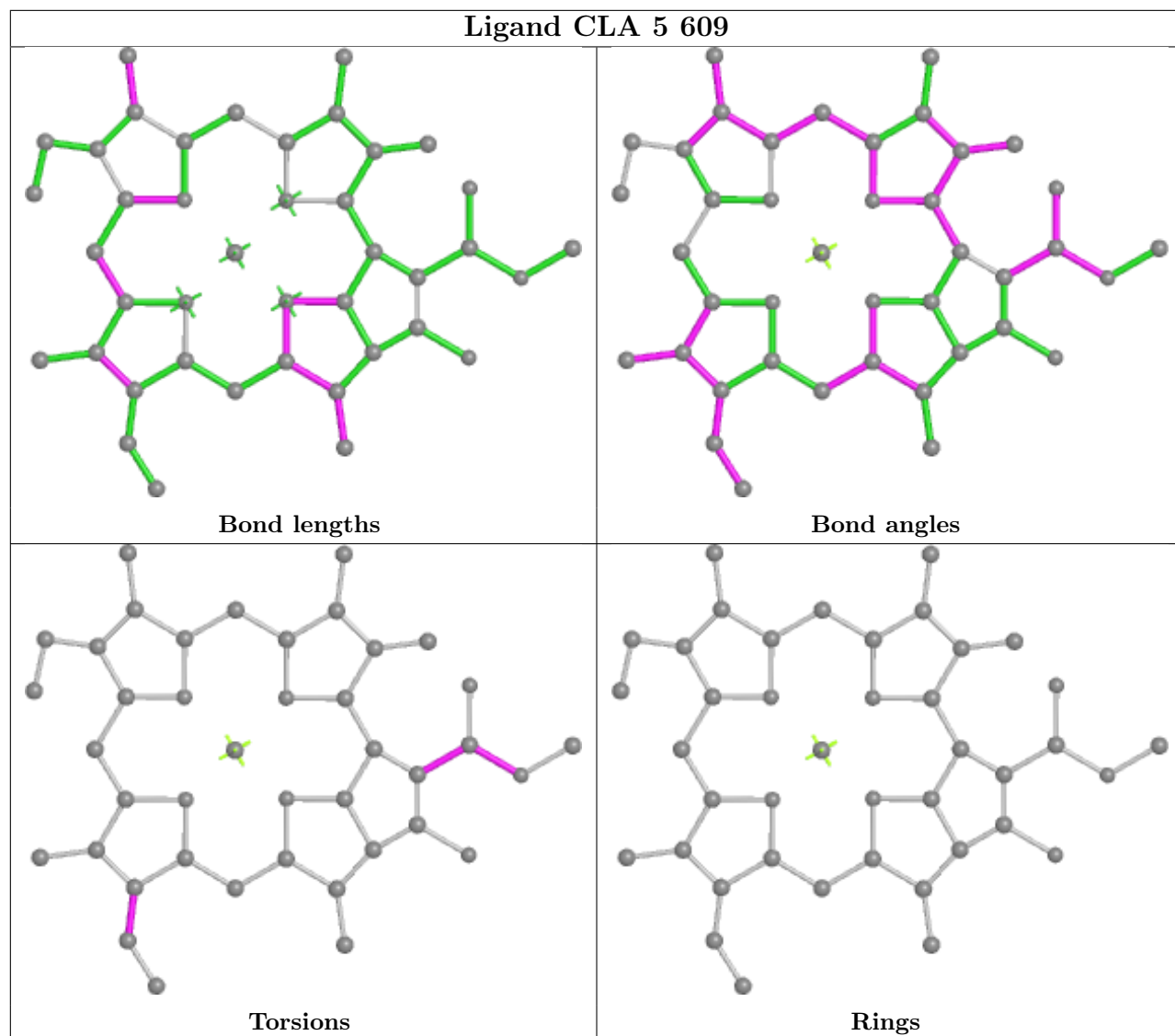


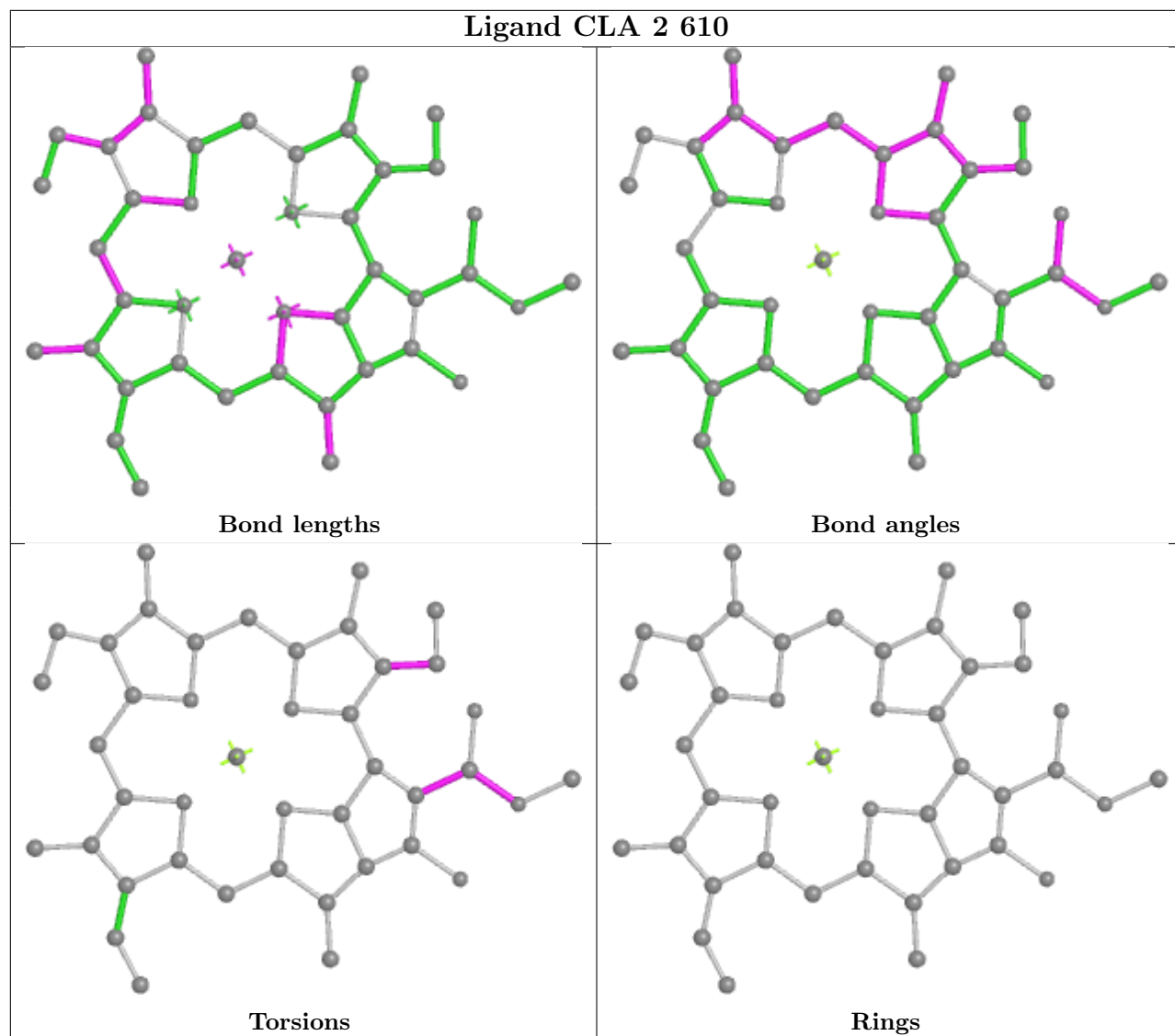


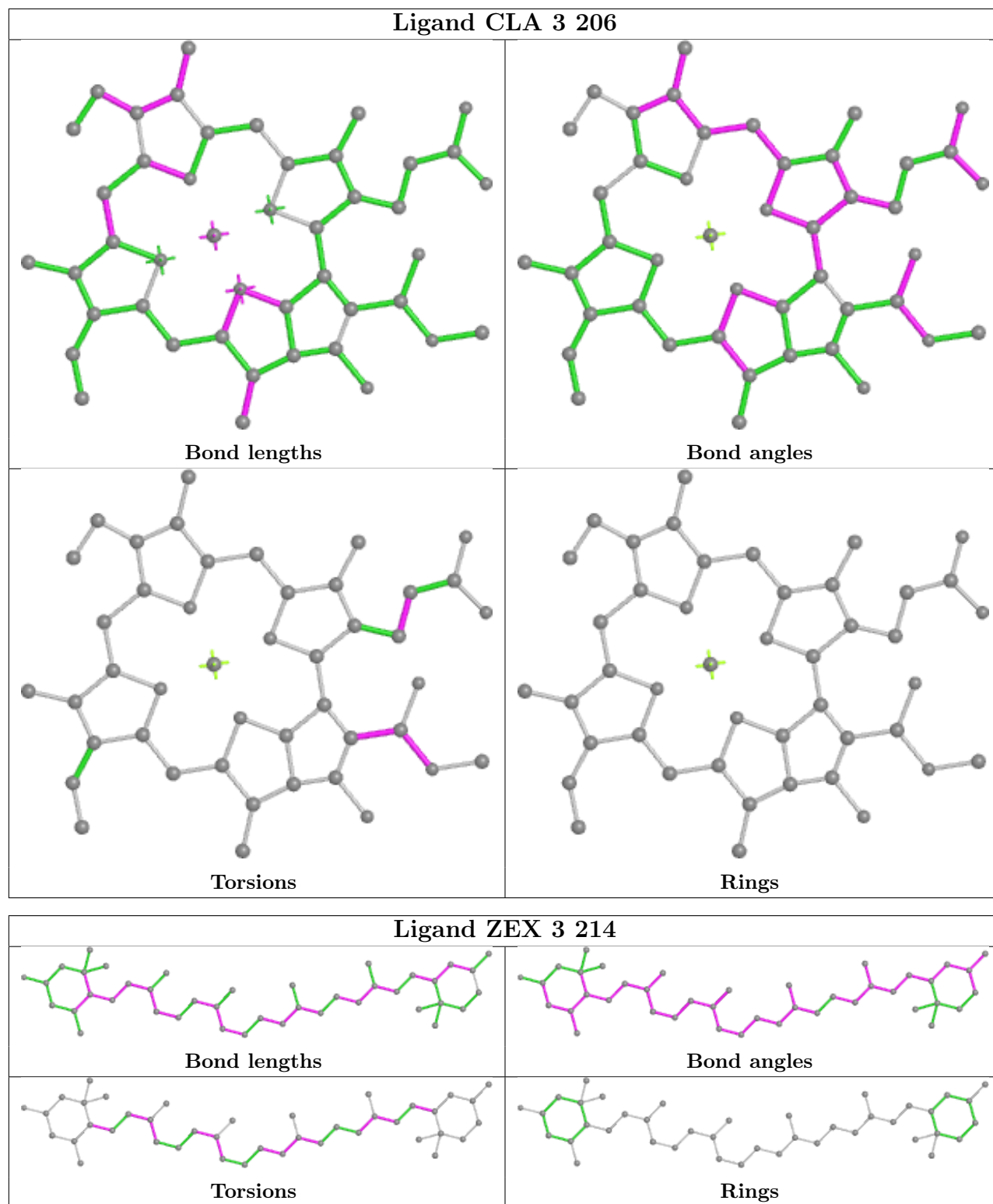


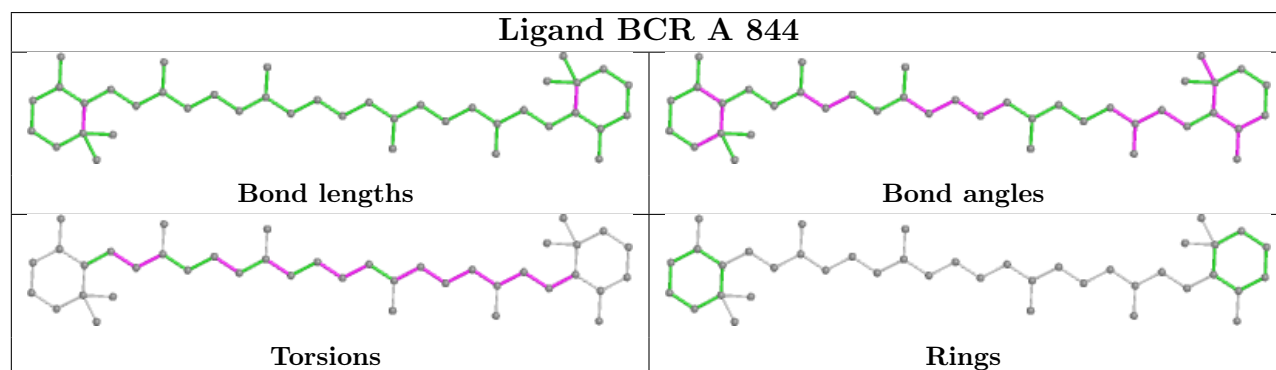
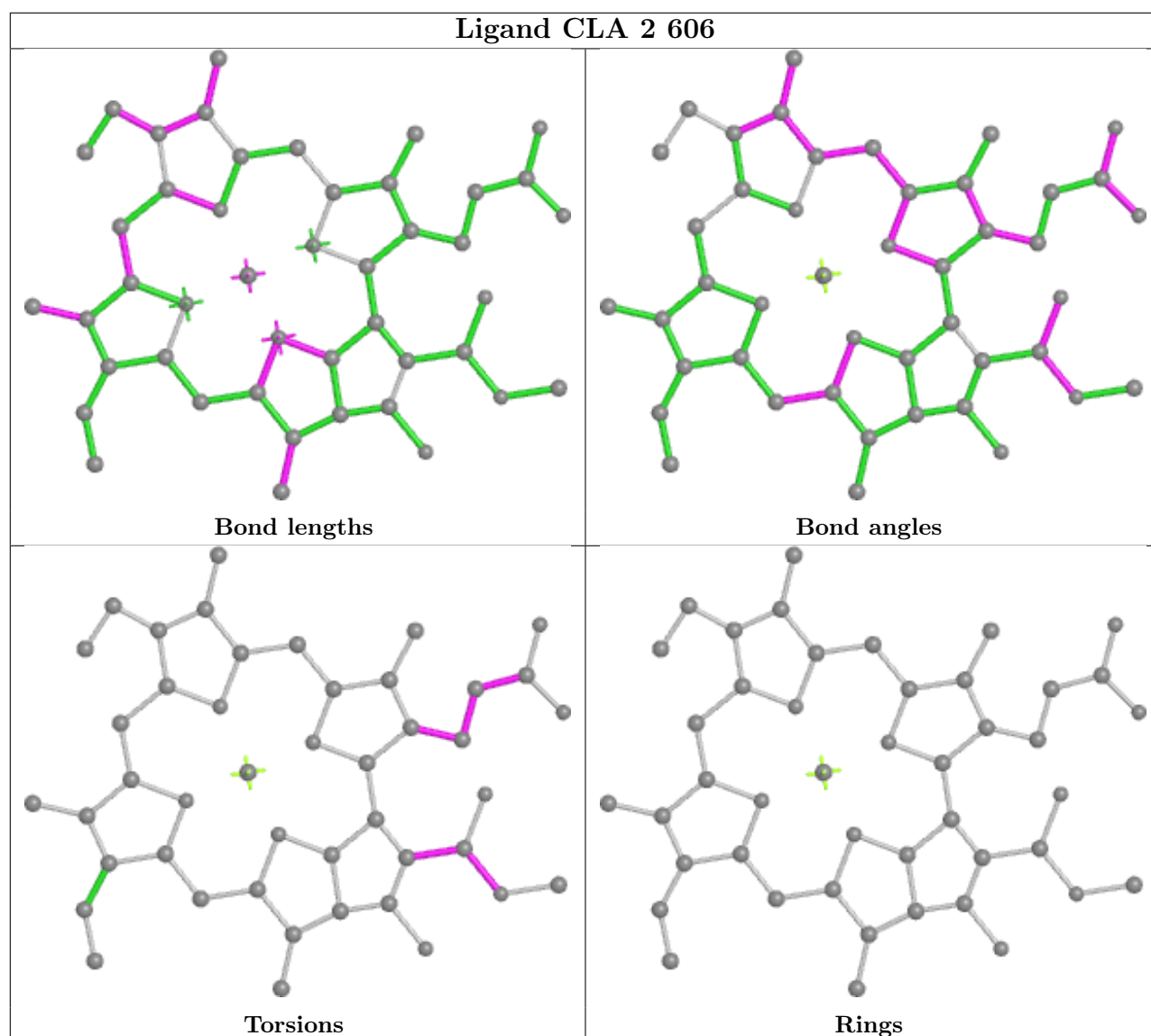


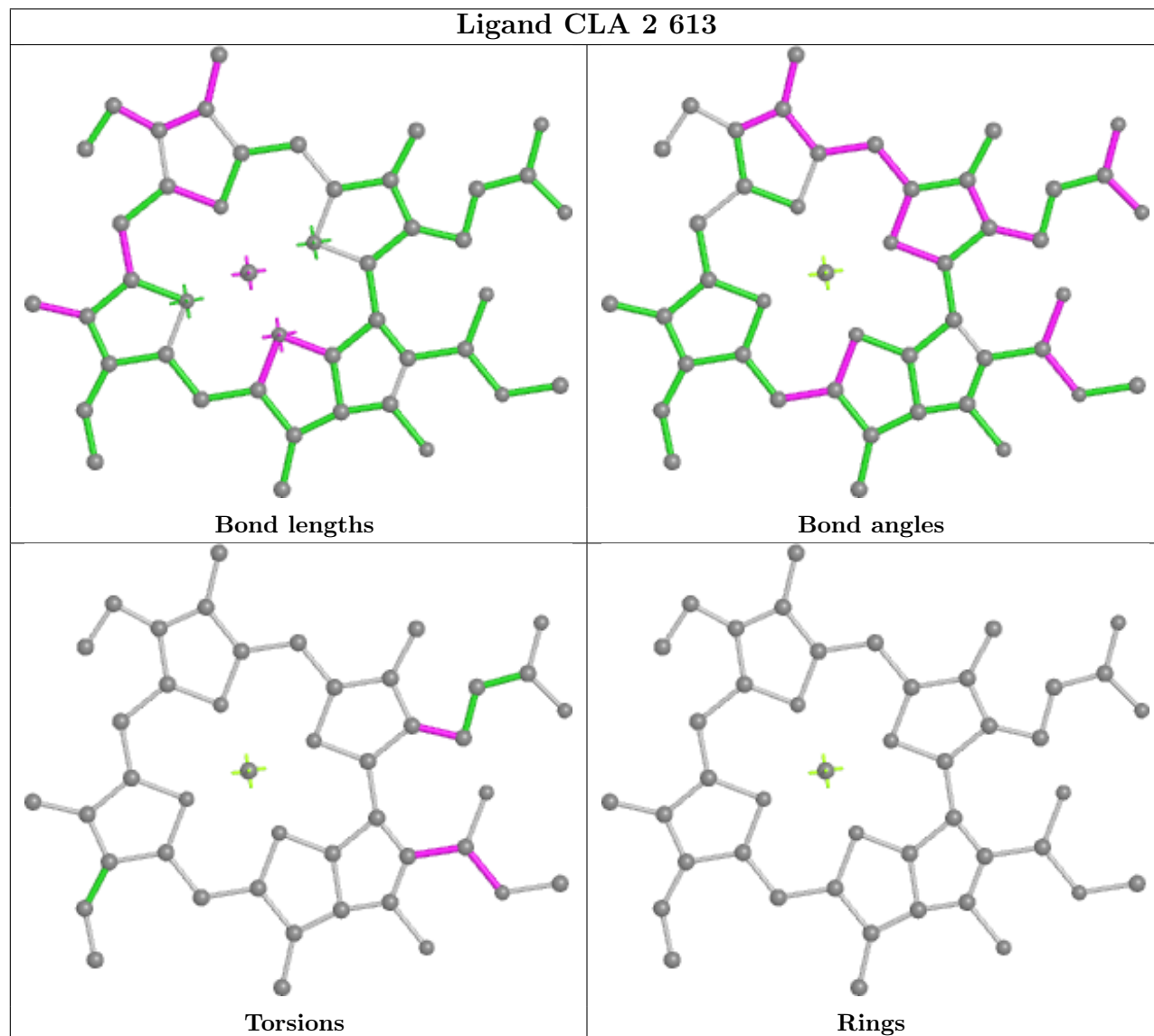
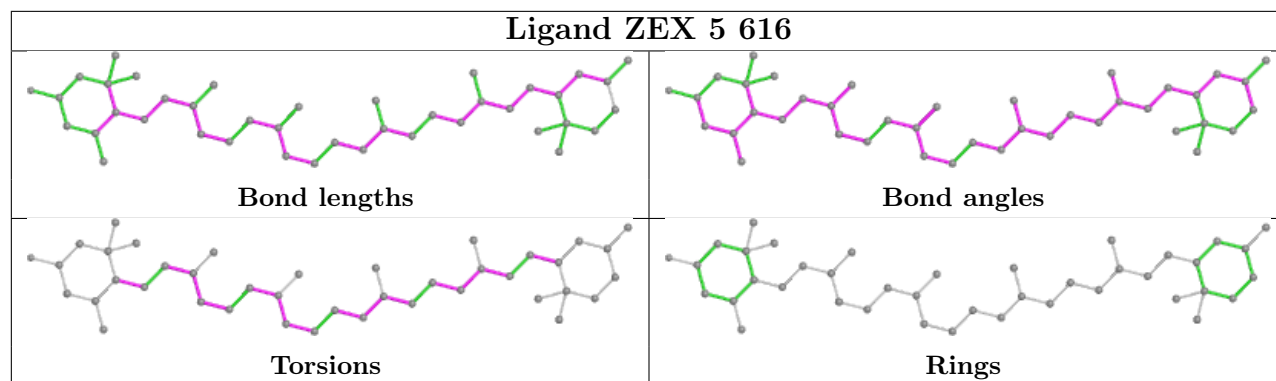


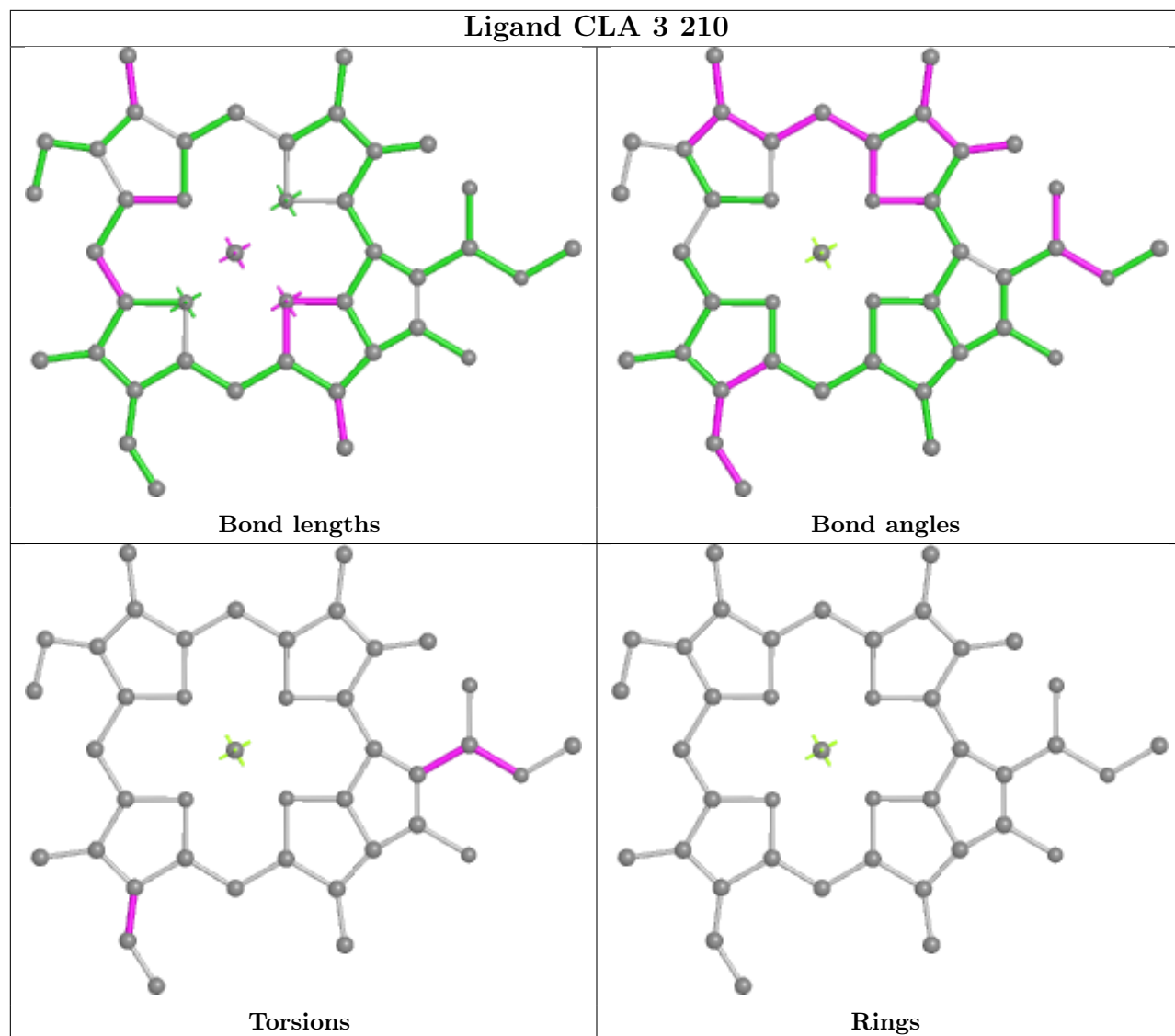


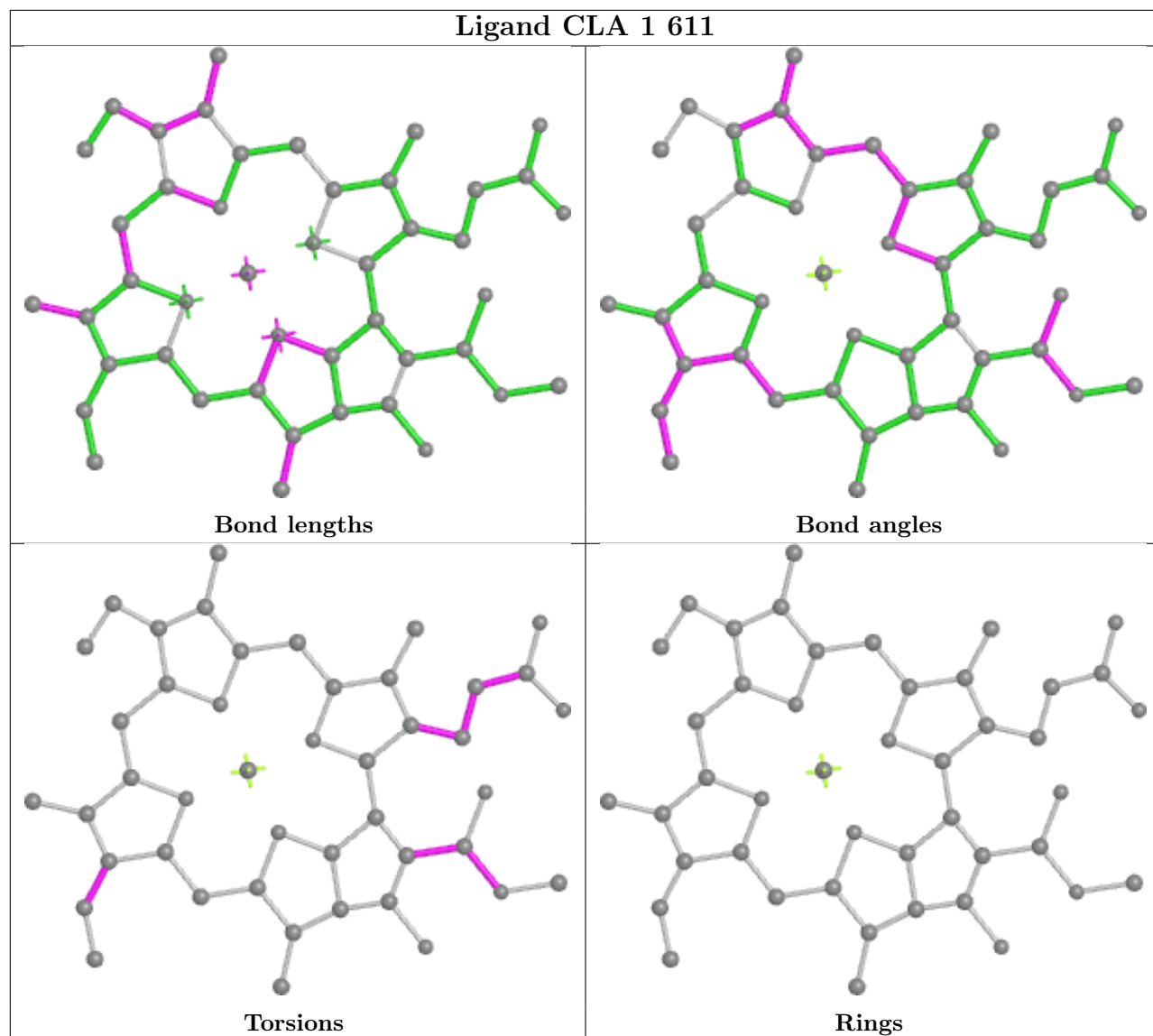


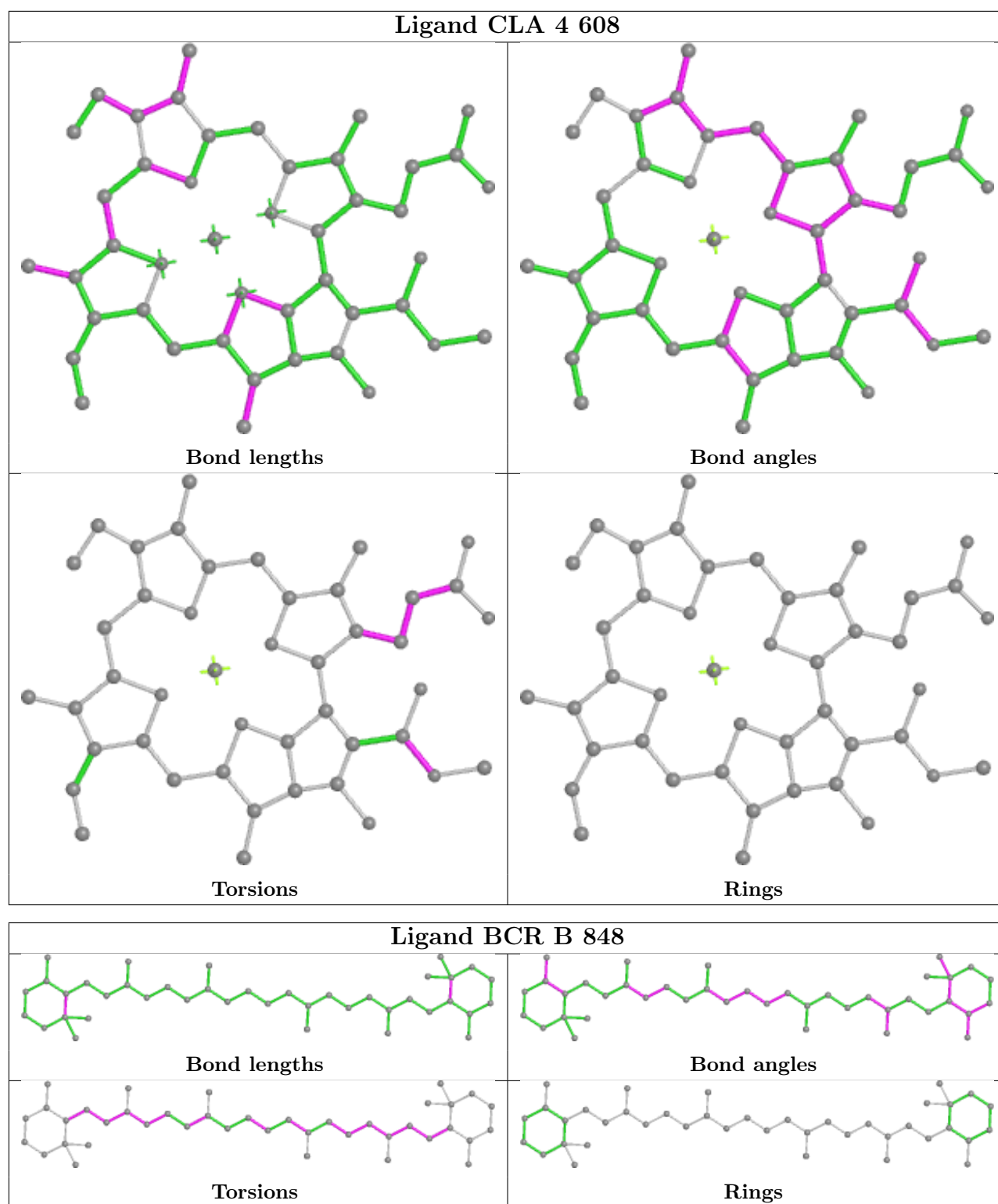




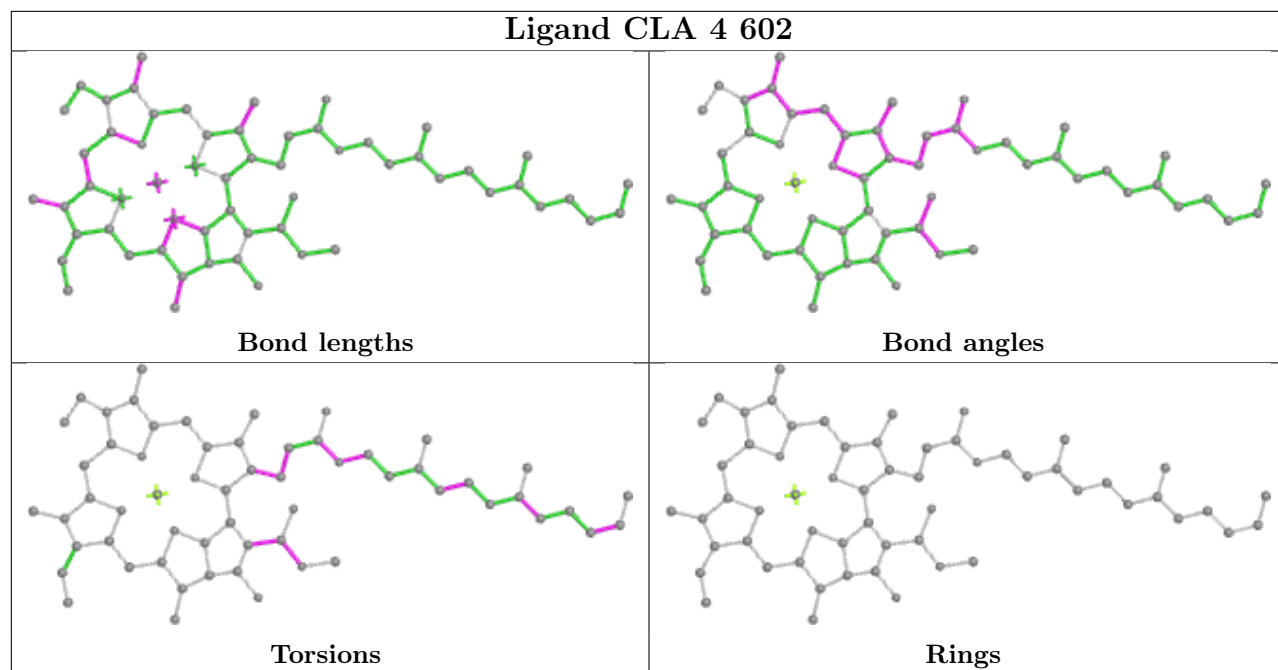


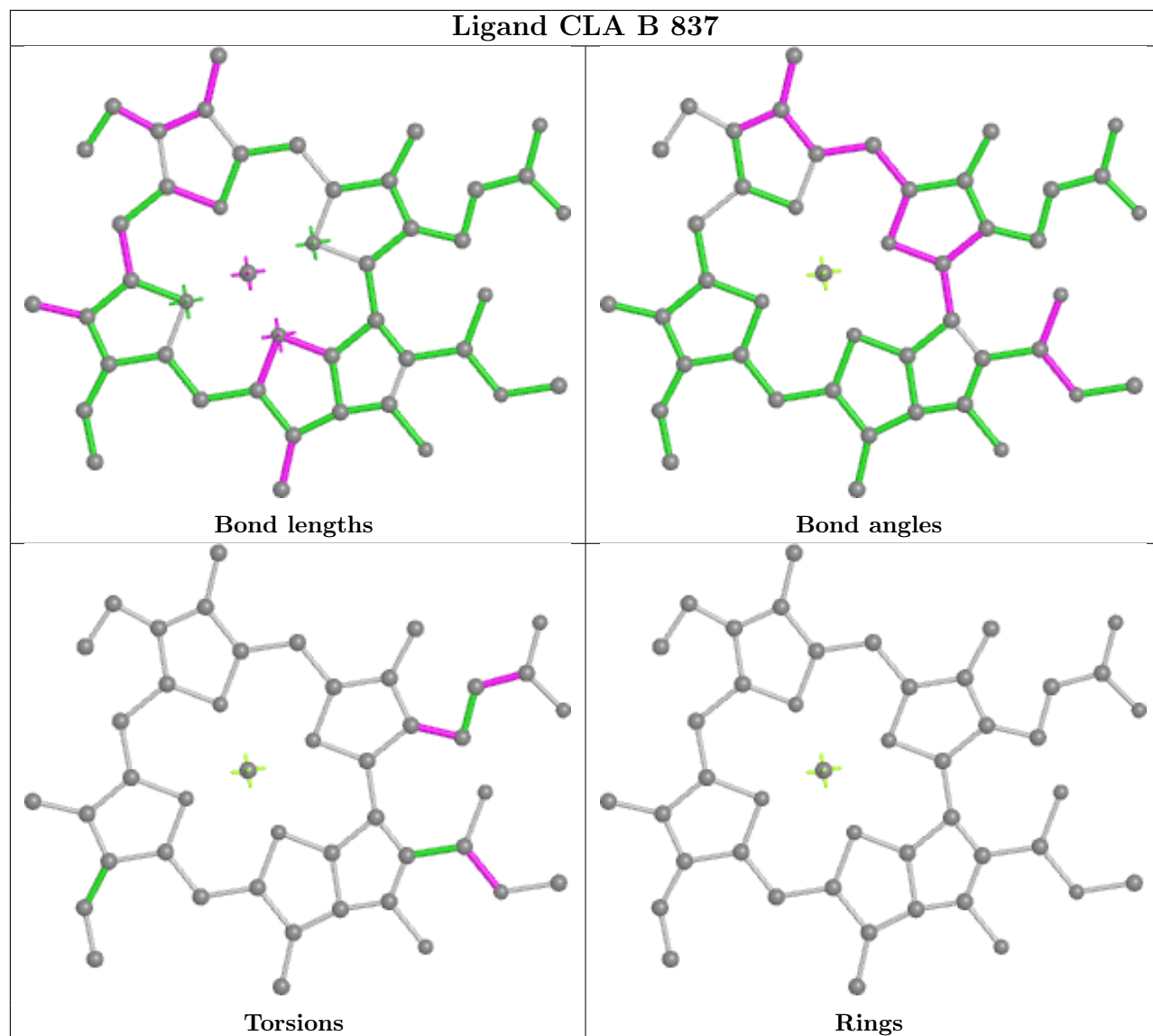


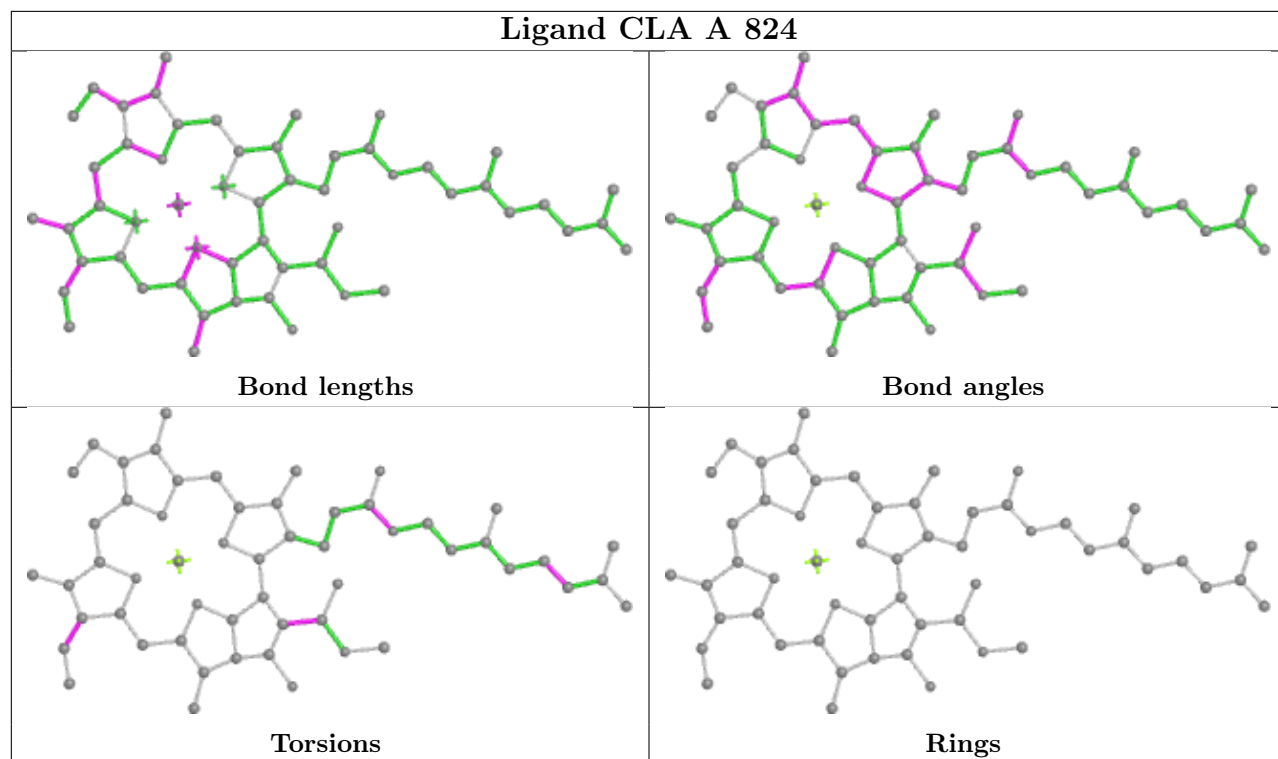


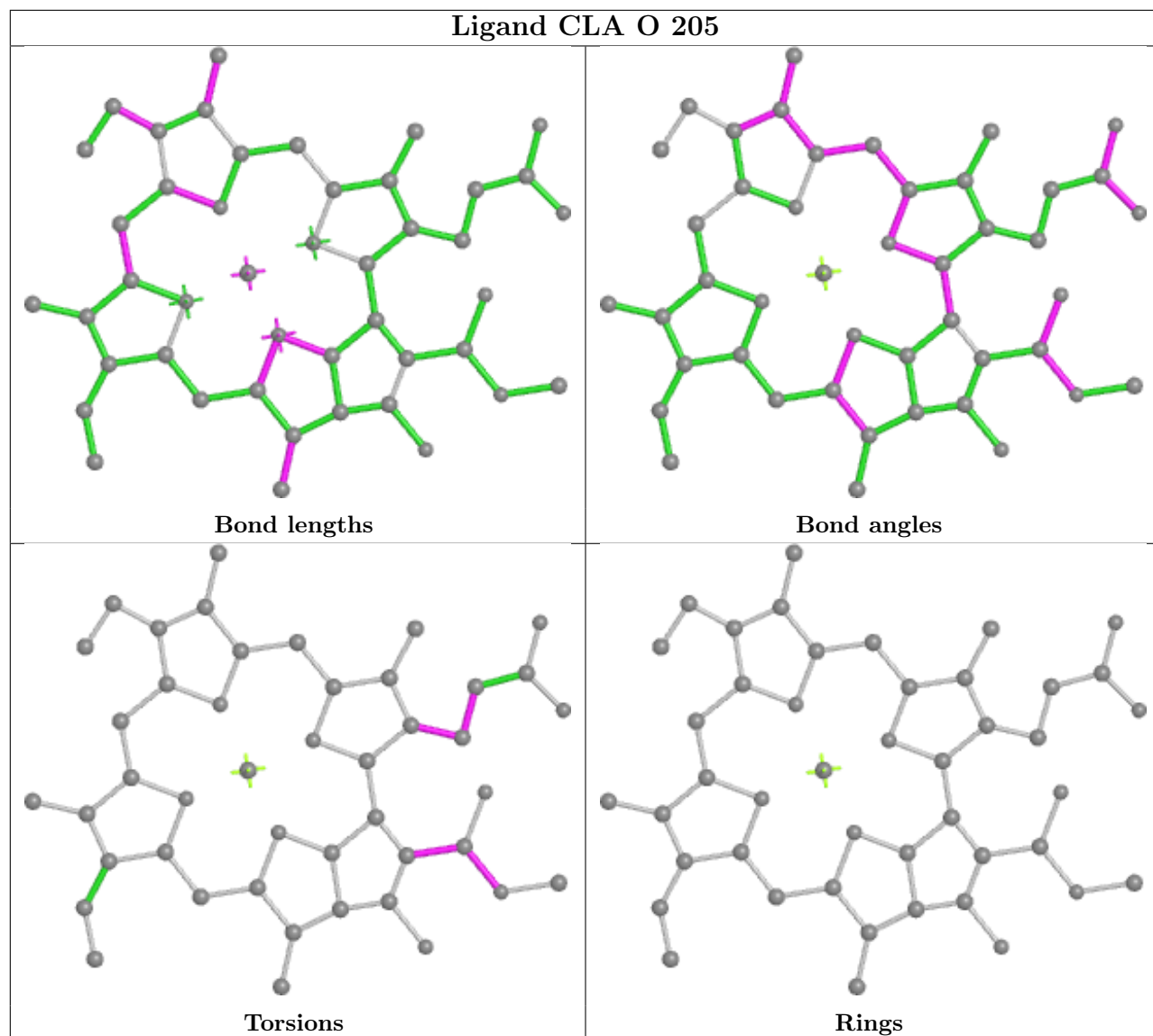


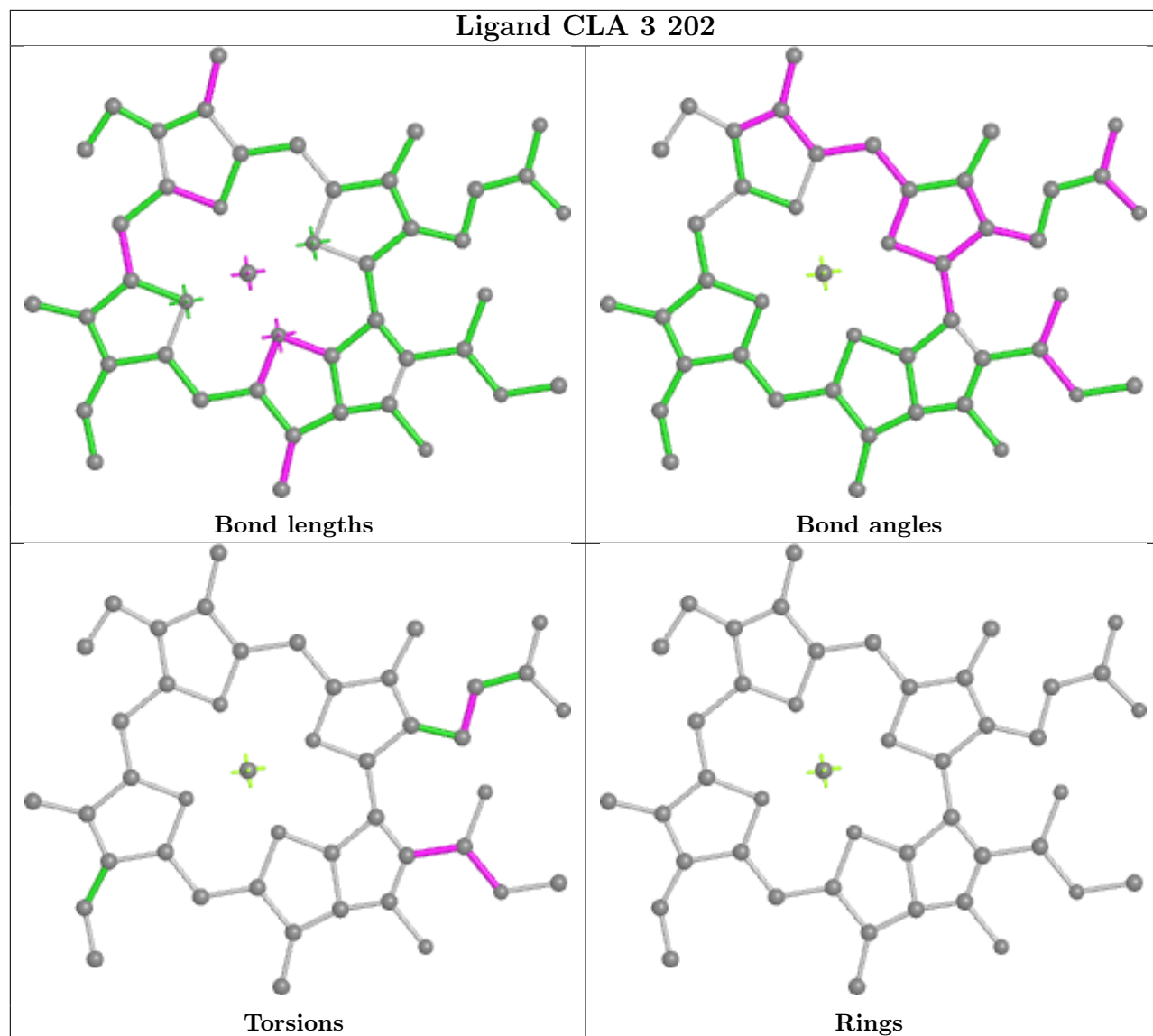




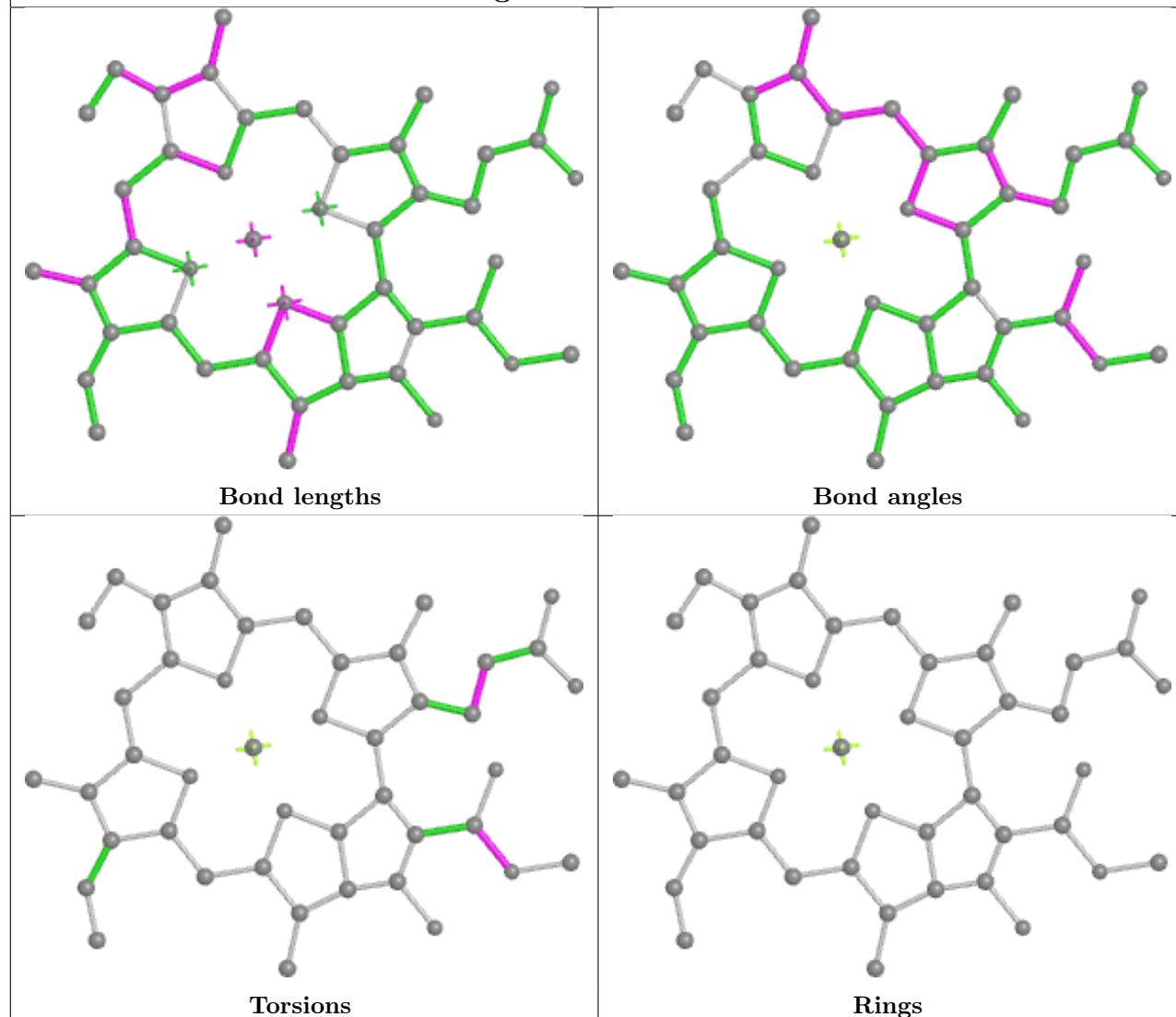




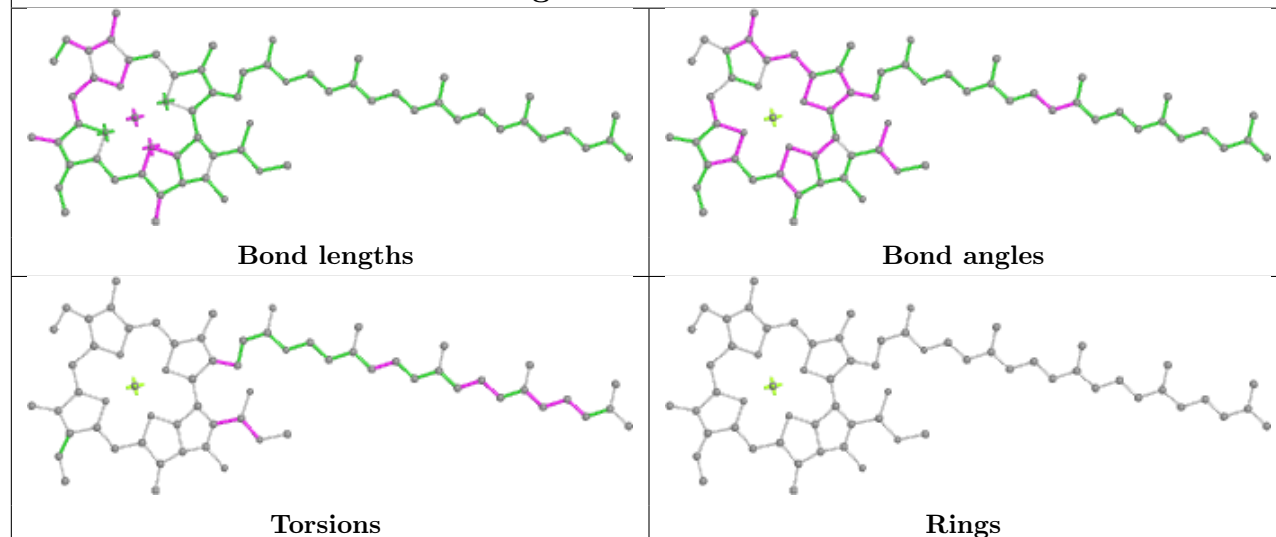


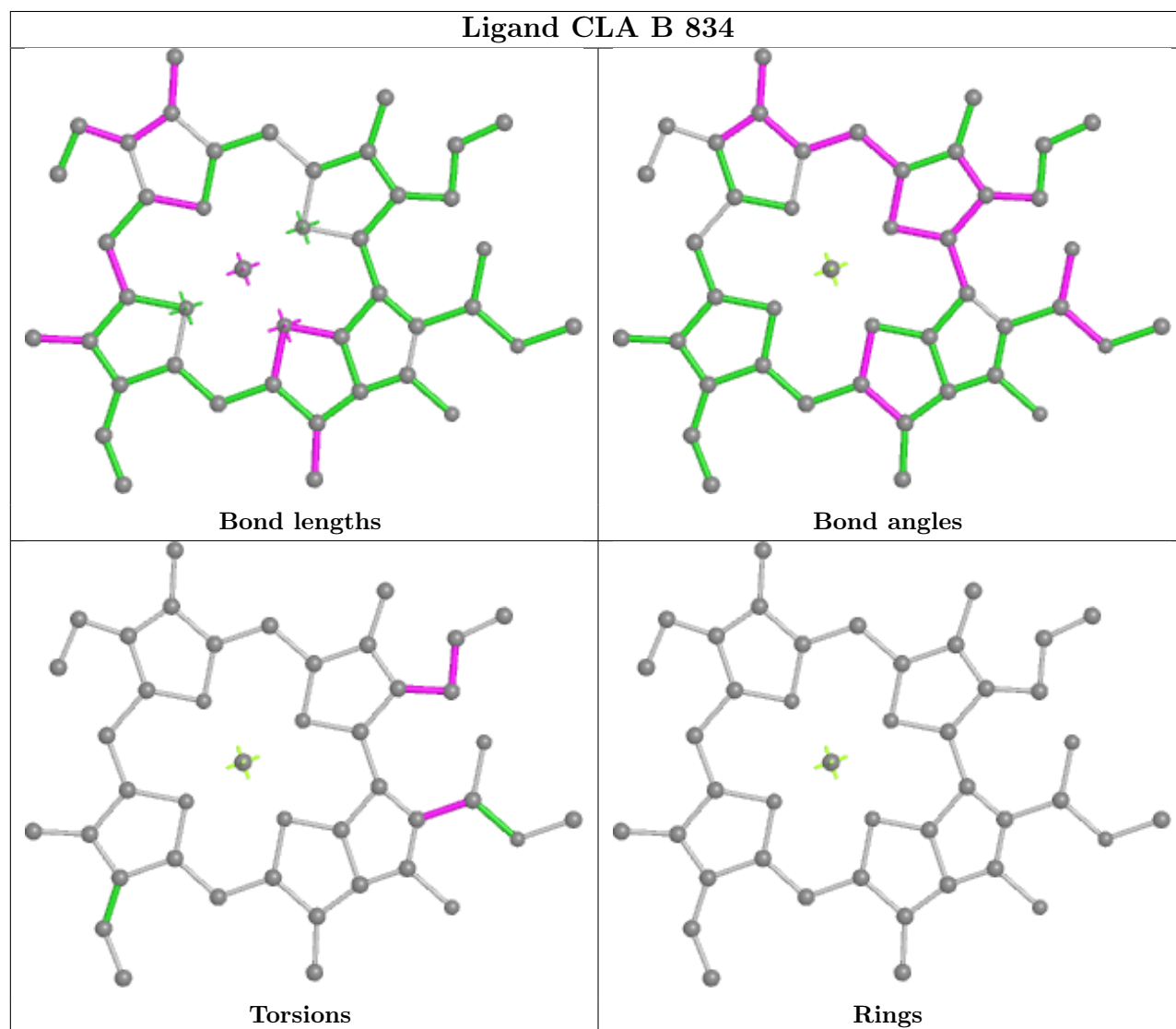
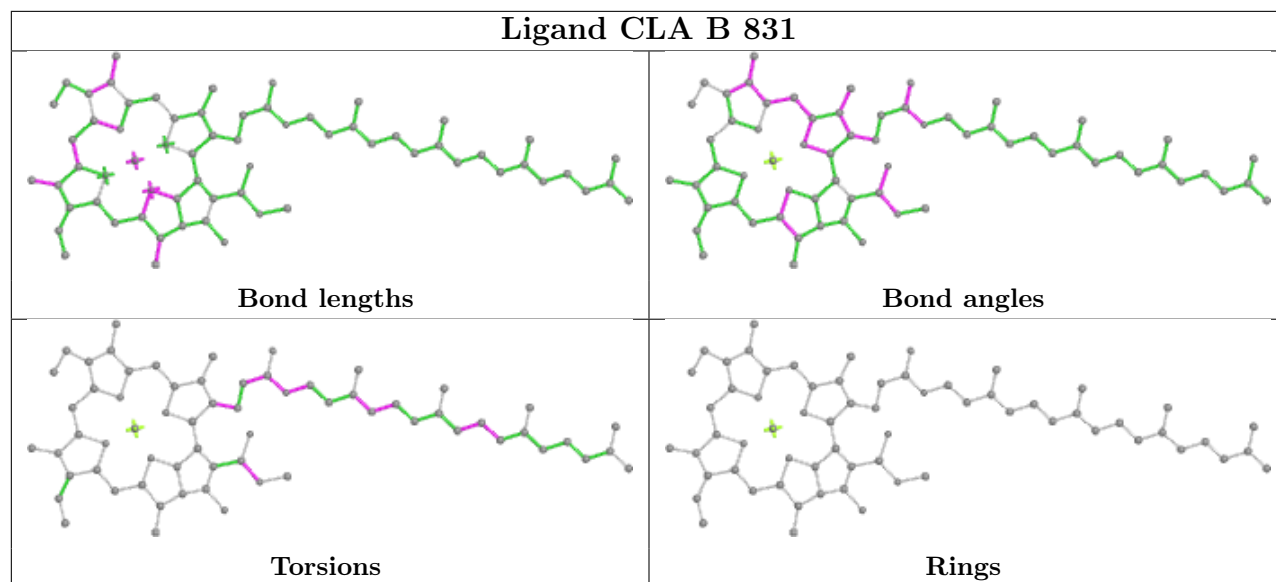


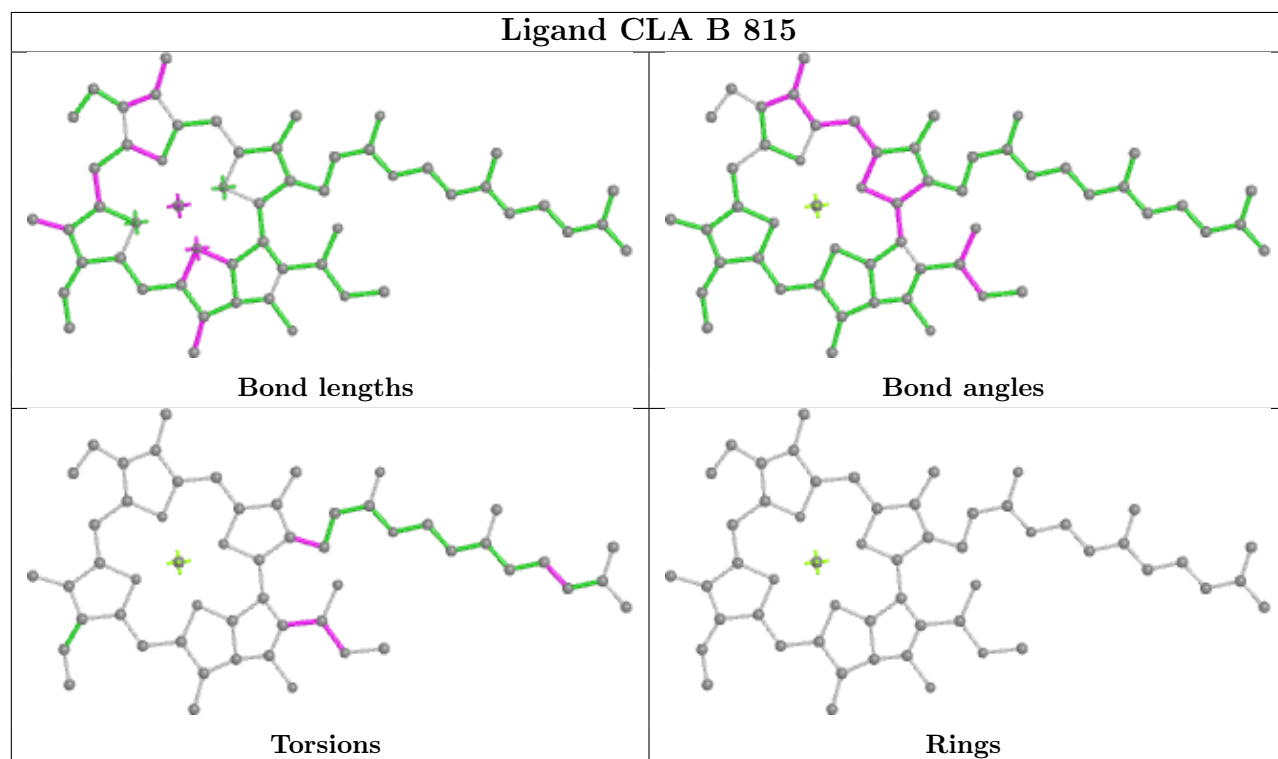
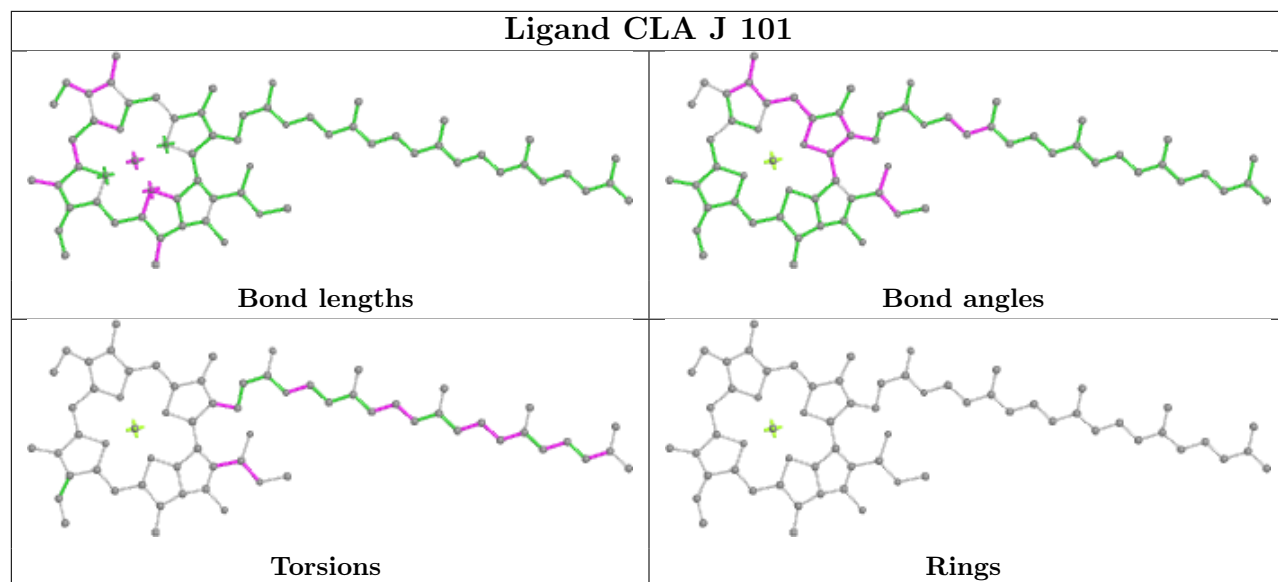
## Ligand CLA 2 612



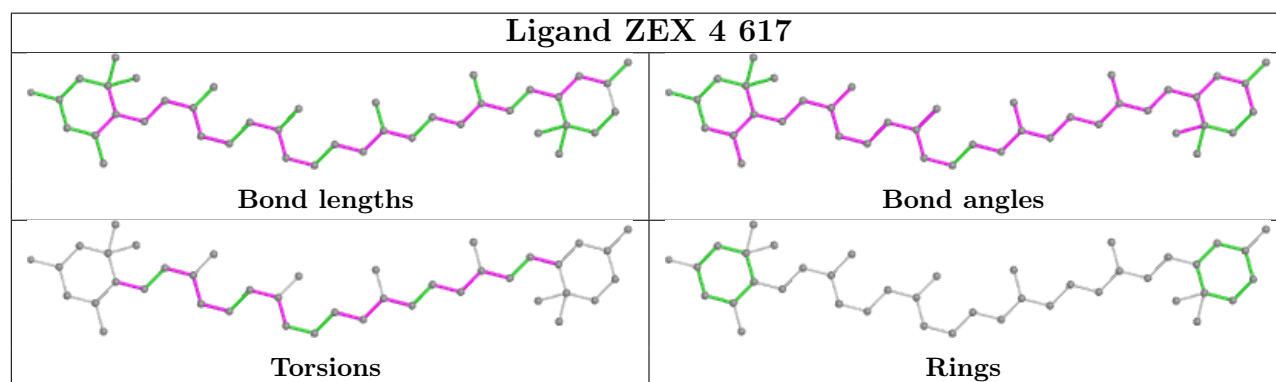
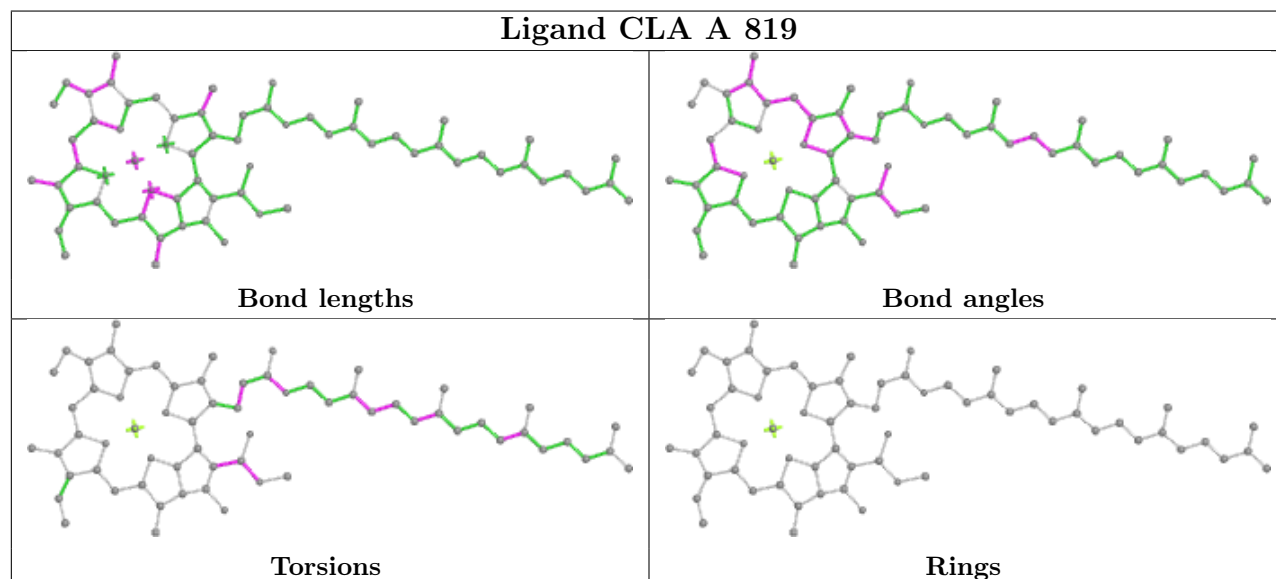
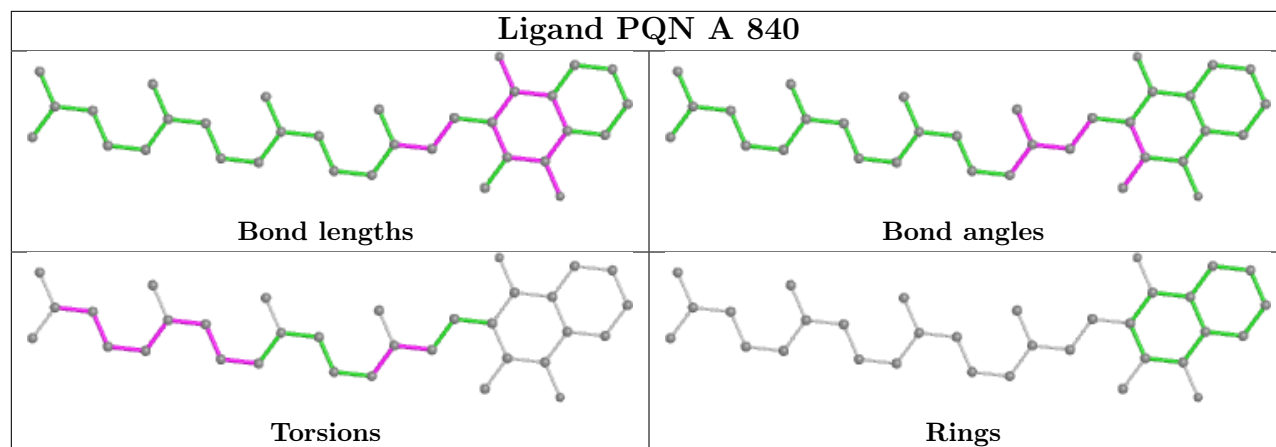
## Ligand CLA B 832

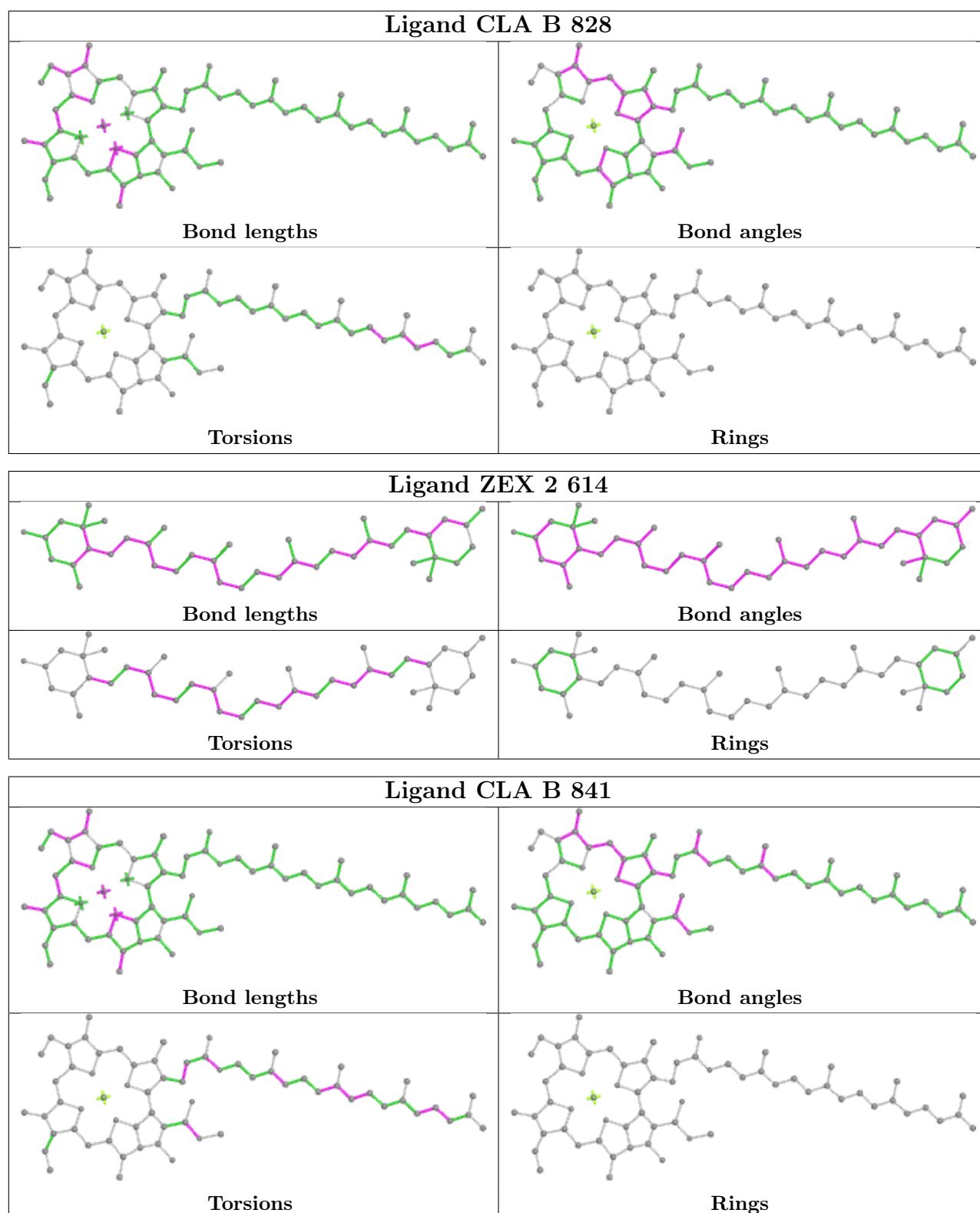


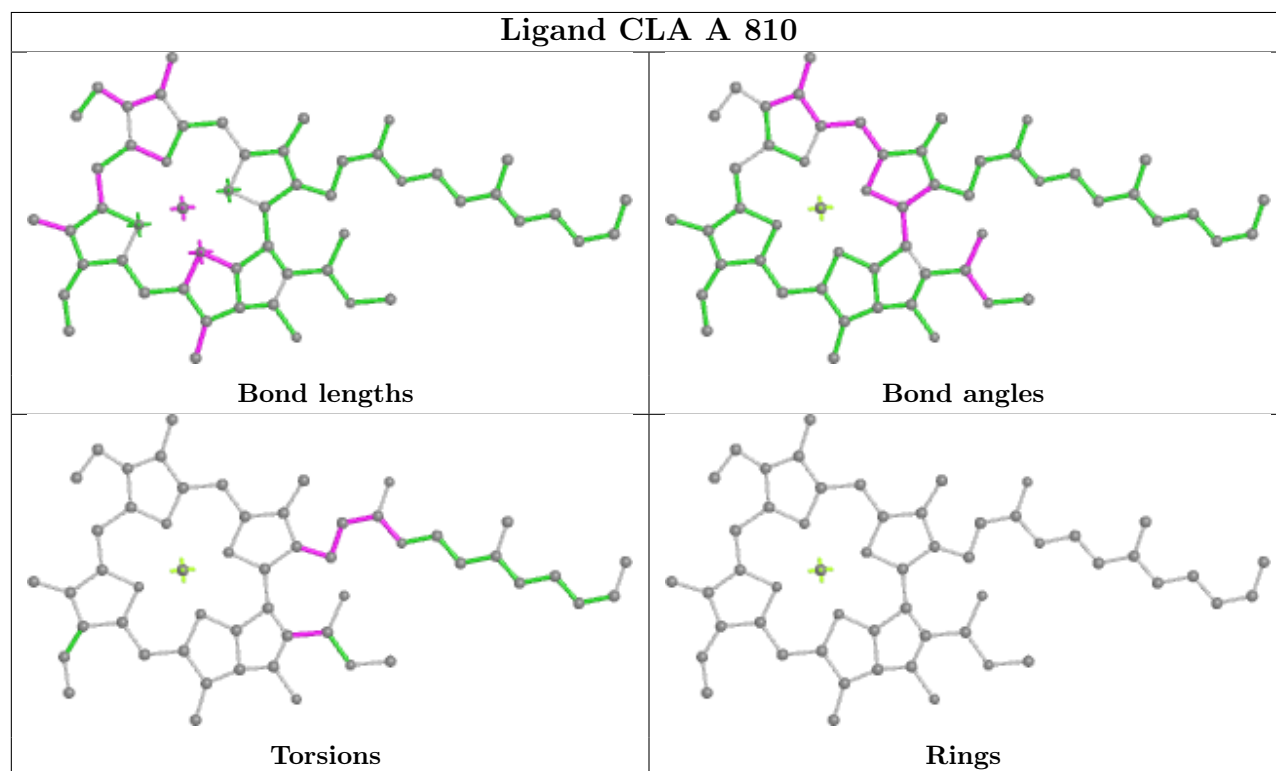
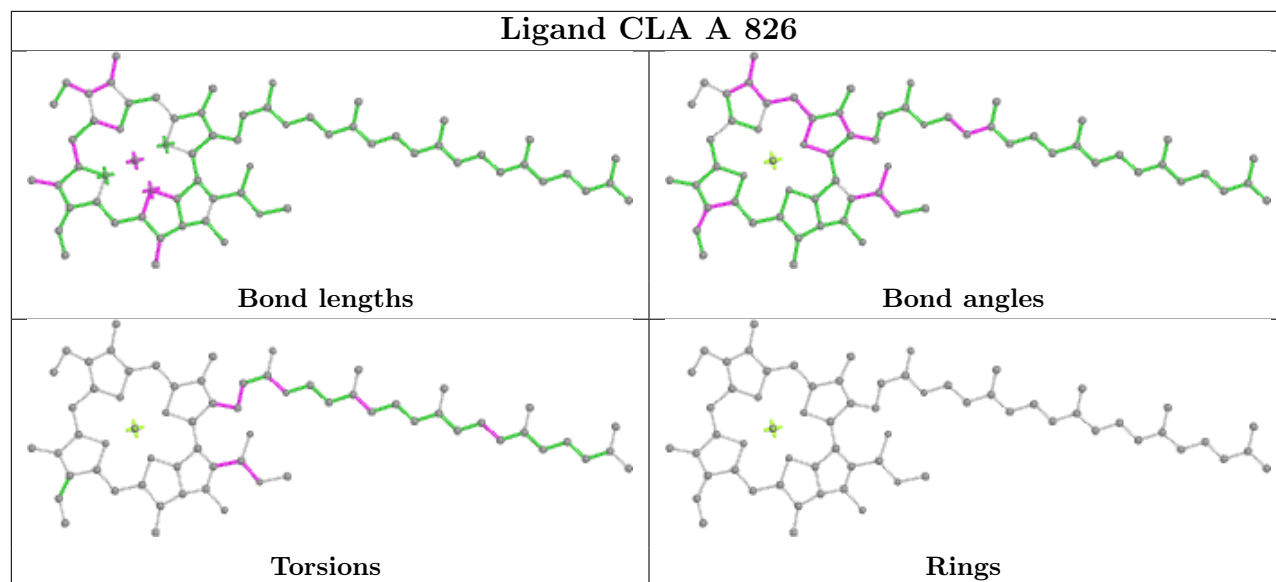


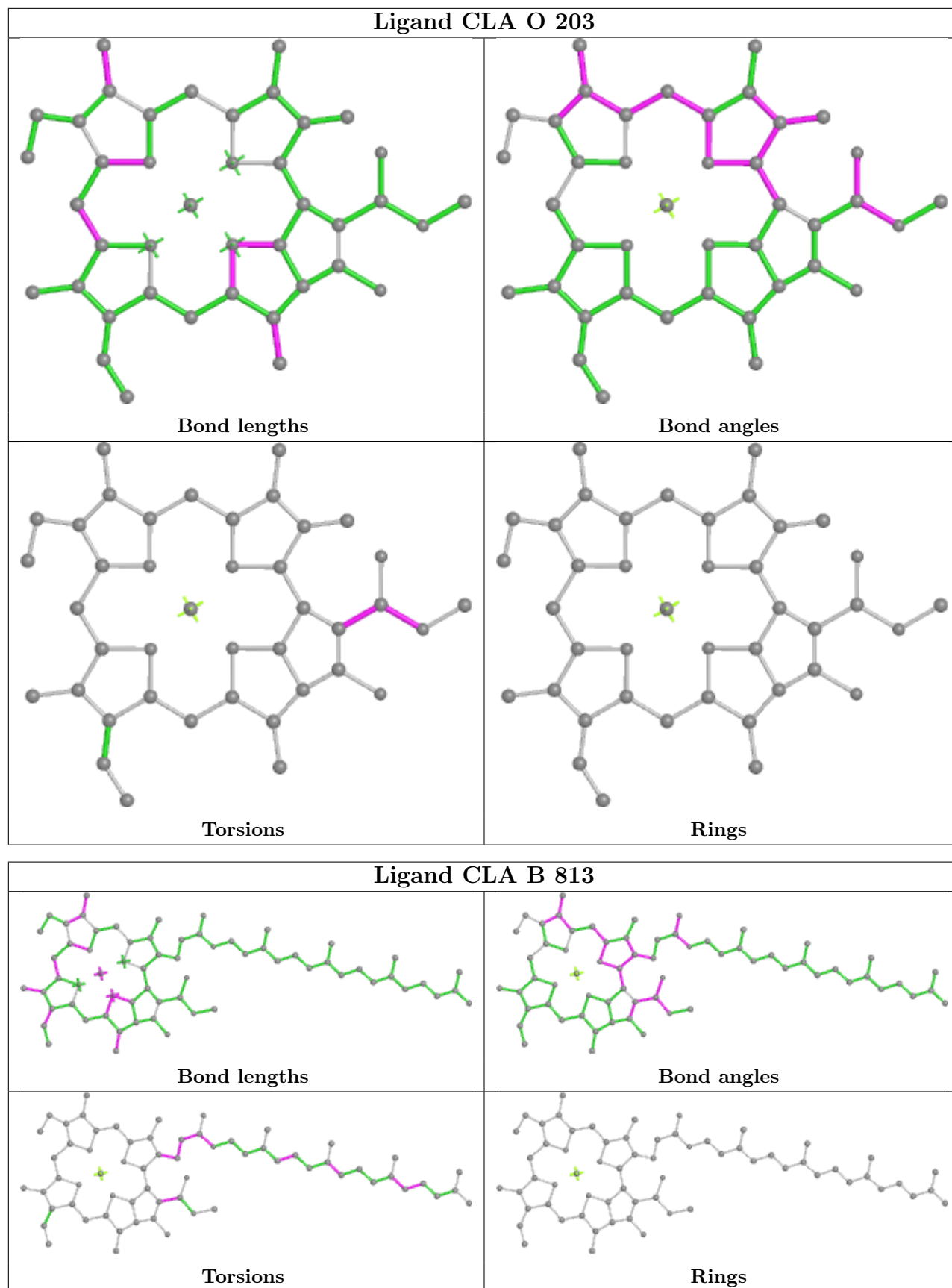


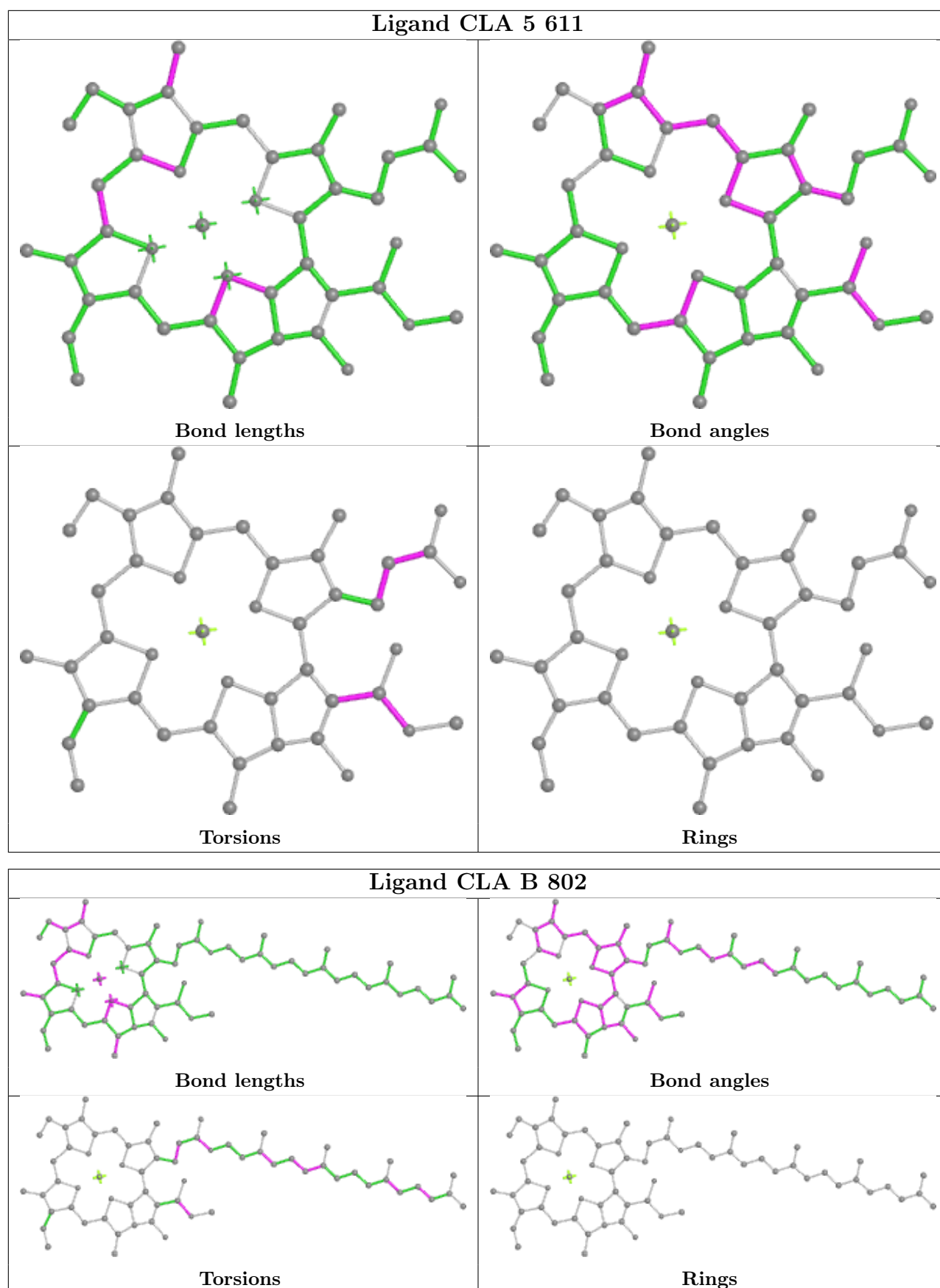


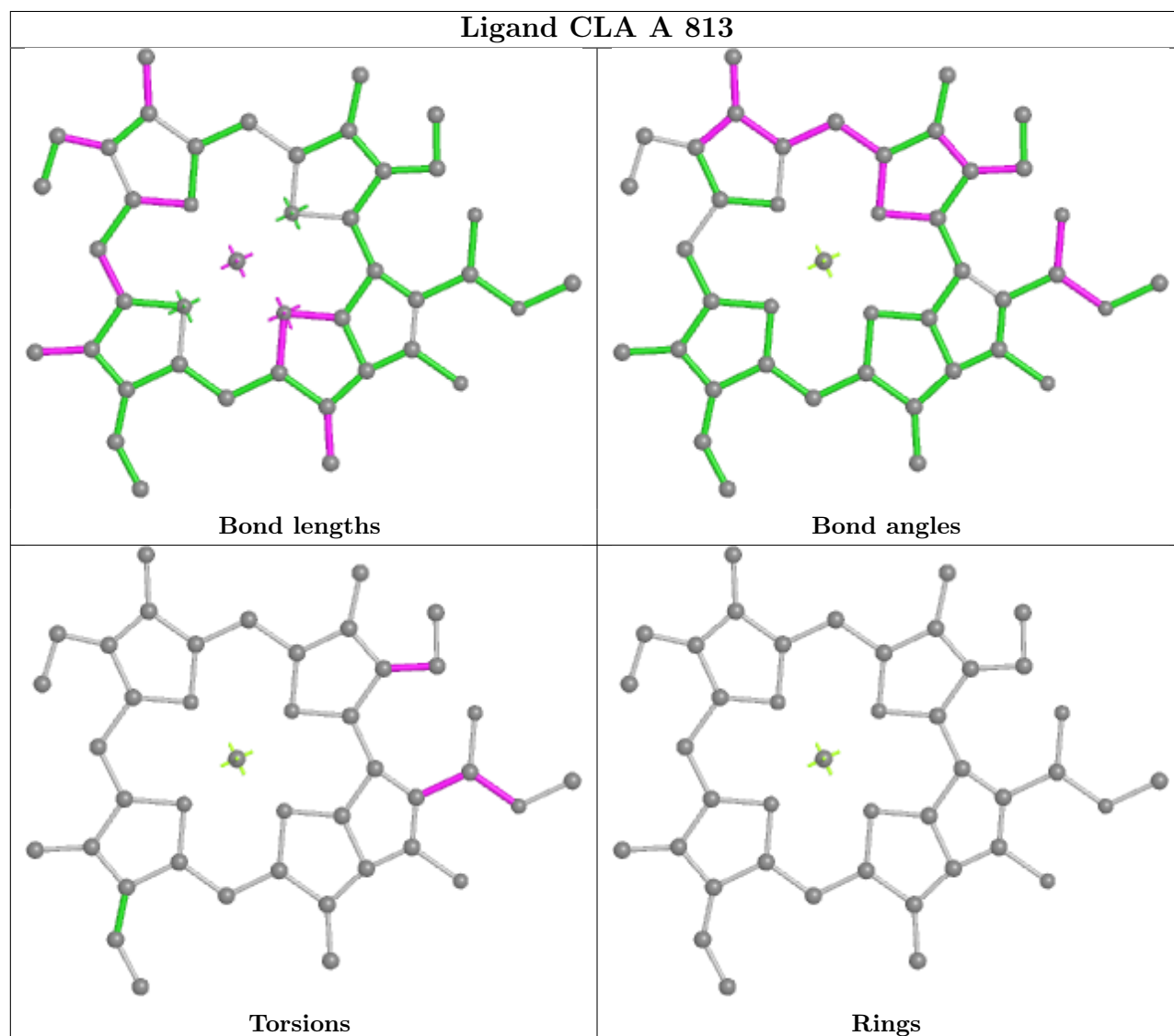
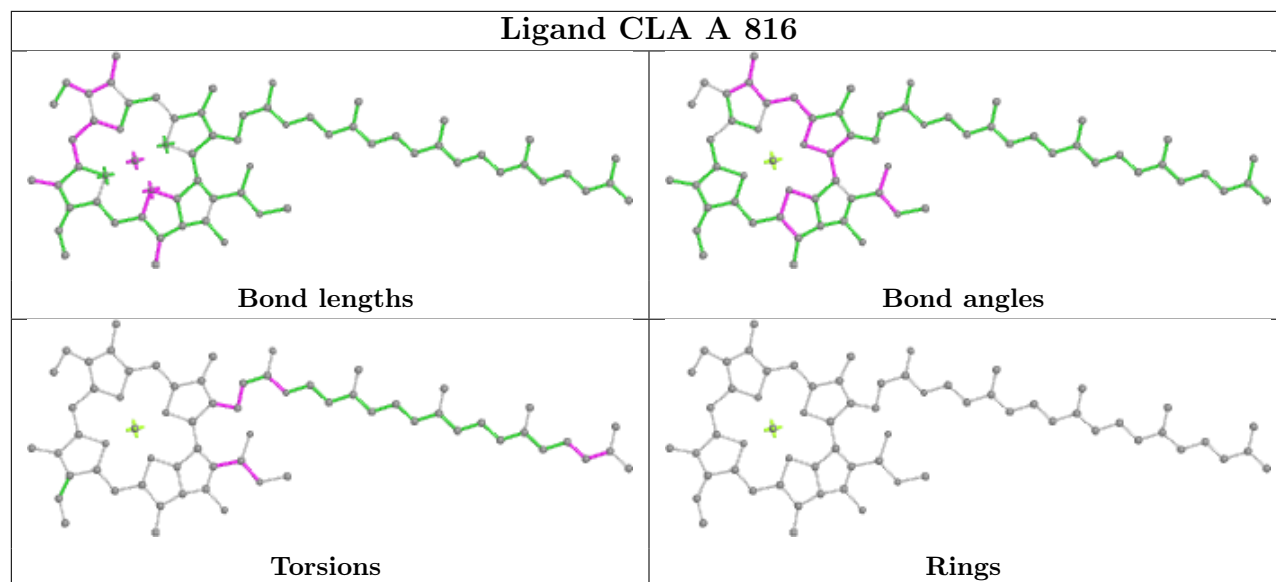












## 5.7 Other polymers [i](#)

There are no such residues in this entry.

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

There are no chain breaks in this entry.

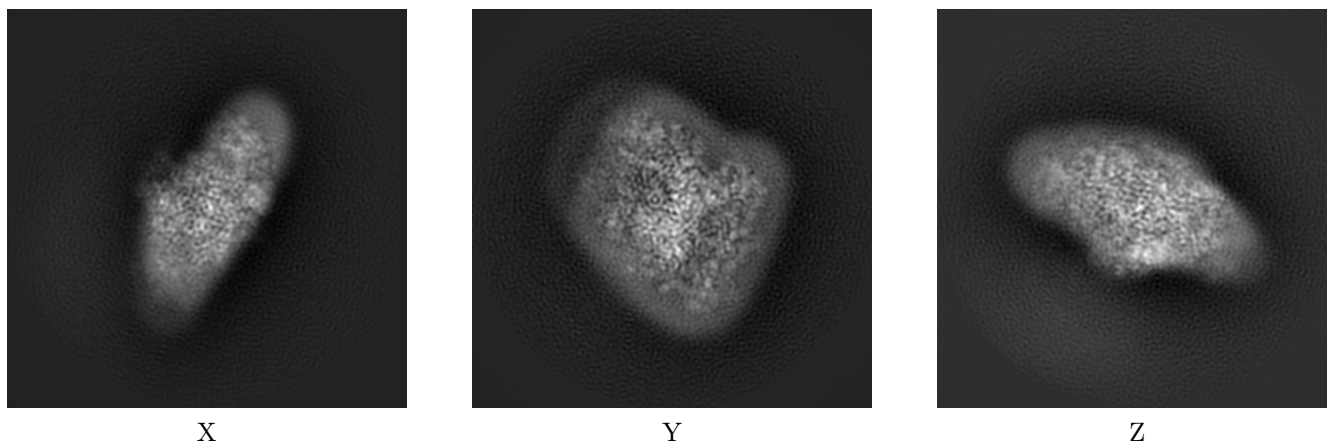
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-6929. These allow visual inspection of the internal detail of the map and identification of artifacts.

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

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

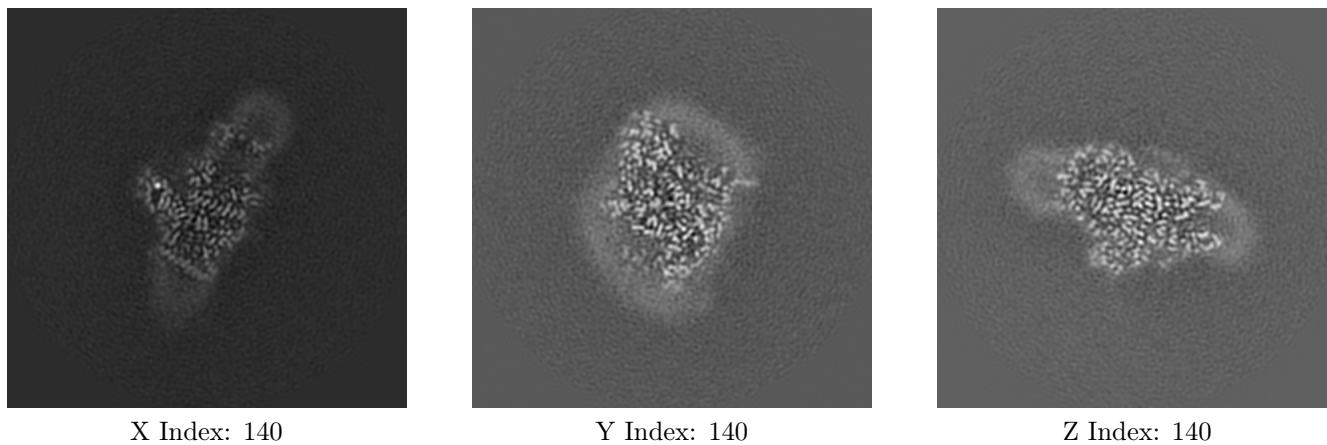
#### 6.1.1 Primary map



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

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

#### 6.2.1 Primary map

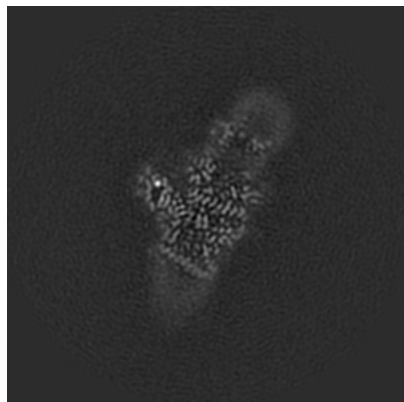




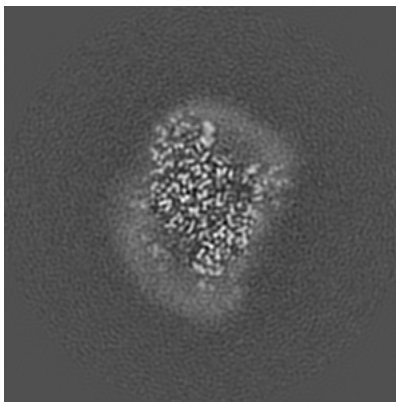
The images above show central slices of the map in three orthogonal directions.

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

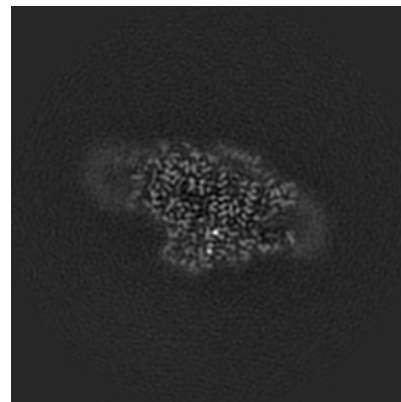
### 6.3.1 Primary map



X Index: 140



Y Index: 142

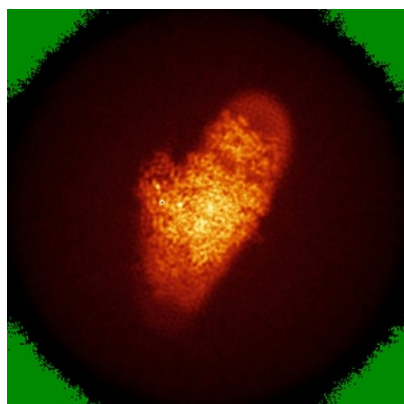


Z Index: 143

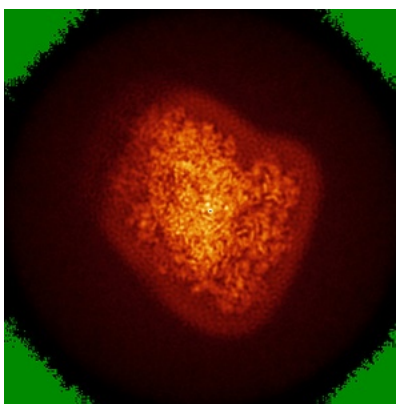
The images above show the largest variance slices of the map in three orthogonal directions.

## 6.4 Orthogonal standard-deviation projections (False-color) [\(i\)](#)

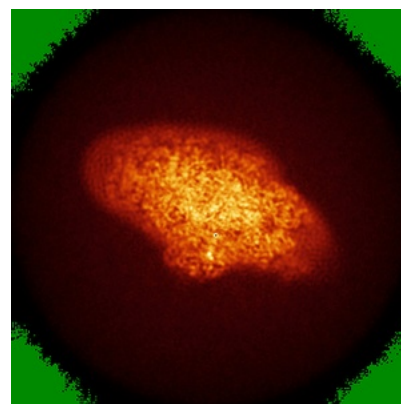
### 6.4.1 Primary map



X



Y

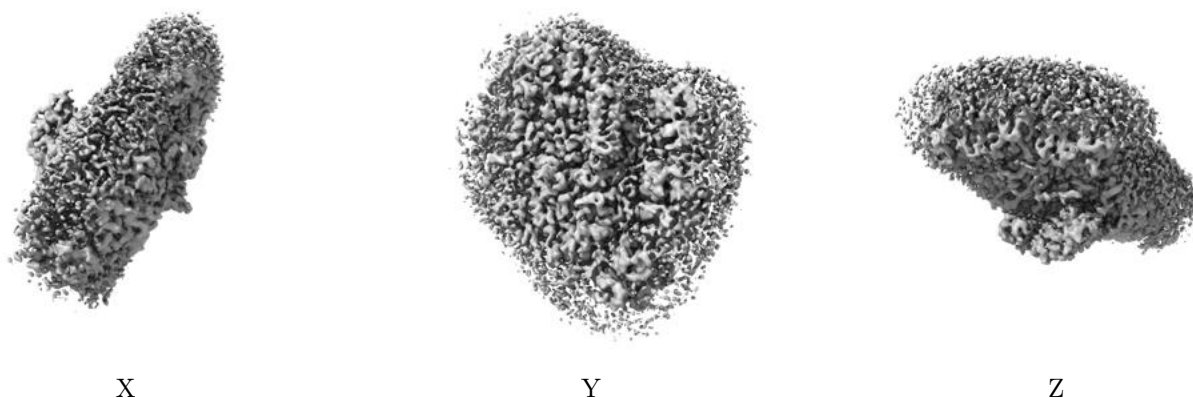


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

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

### 6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.0562. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

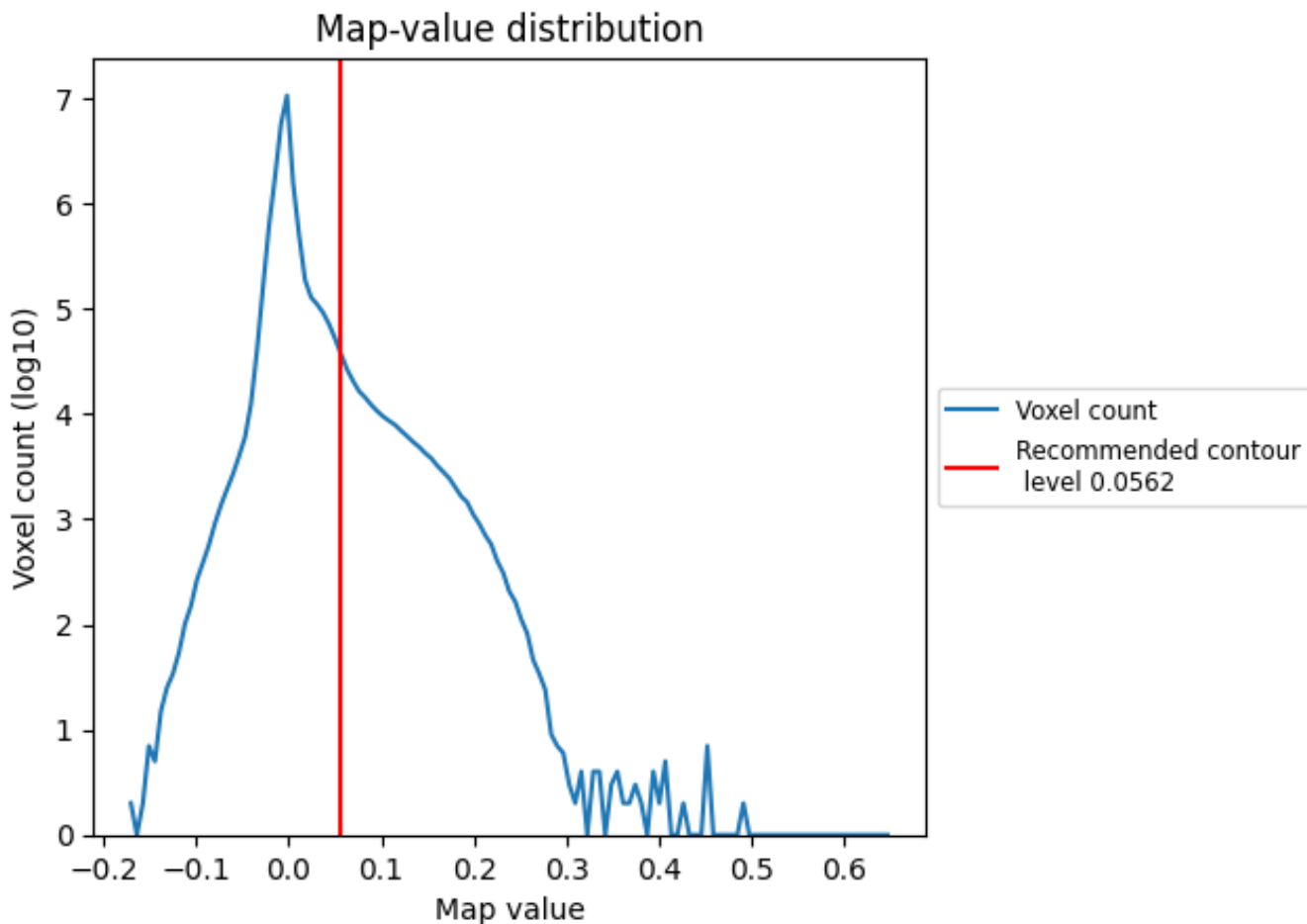
## 6.6 Mask visualisation [i](#)

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

## 7 Map analysis [i](#)

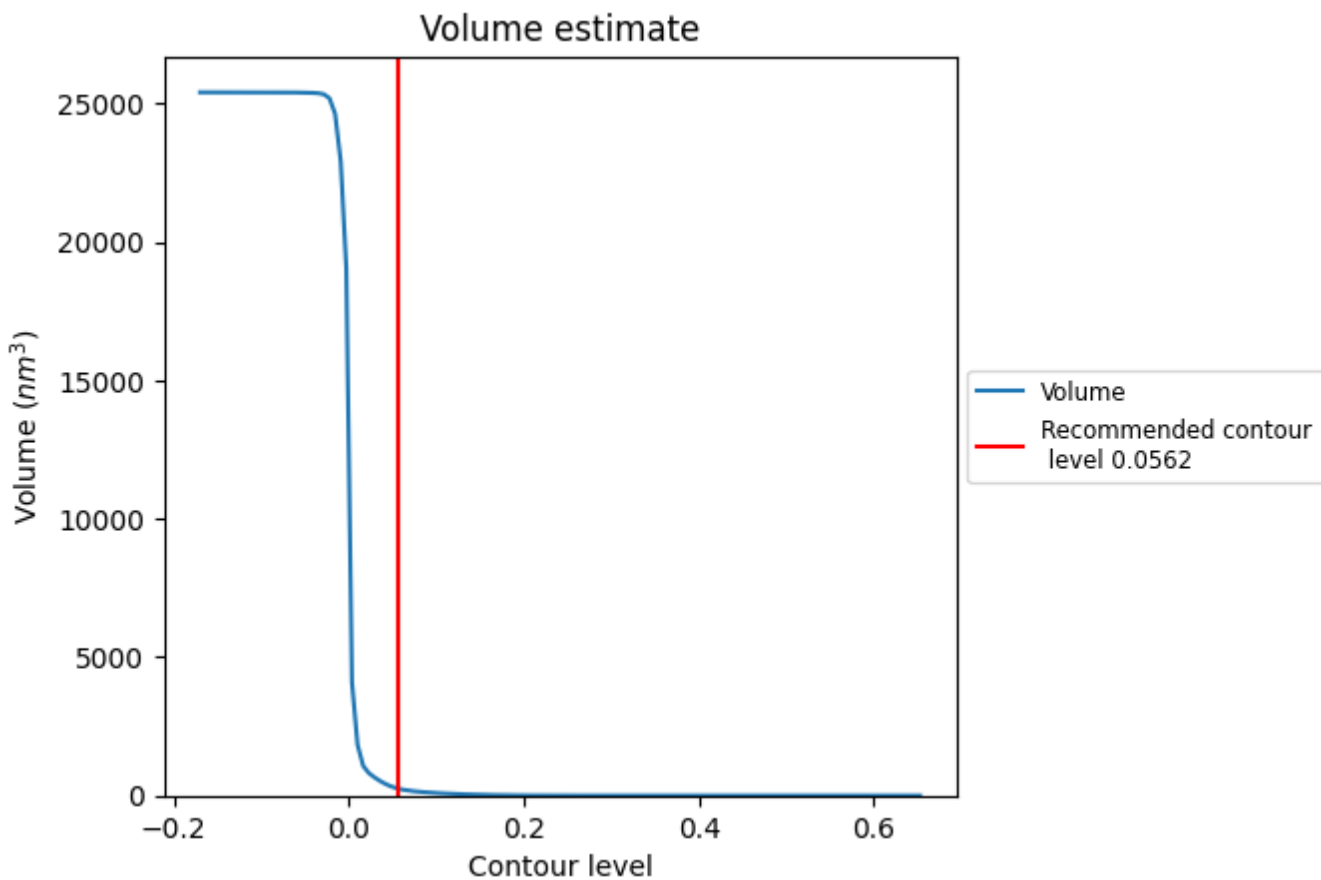
This section contains the results of statistical analysis of the map.

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



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

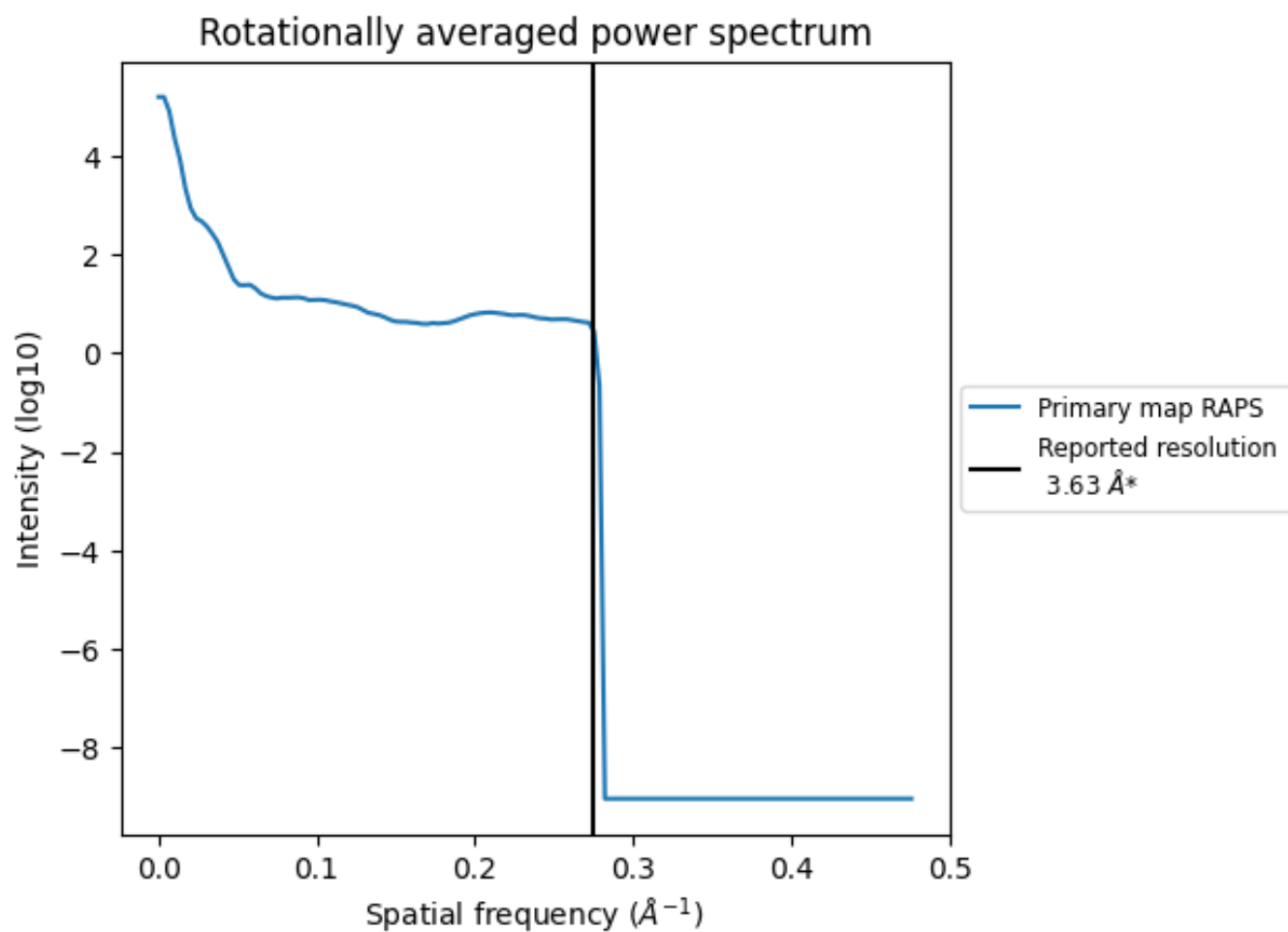
## 7.2 Volume estimate [i](#)



The volume at the recommended contour level is 253  $\text{nm}^3$ ; this corresponds to an approximate mass of 228 kDa.

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

### 7.3 Rotationally averaged power spectrum [\(i\)](#)



\*Reported resolution corresponds to spatial frequency of 0.275 Å<sup>-1</sup>

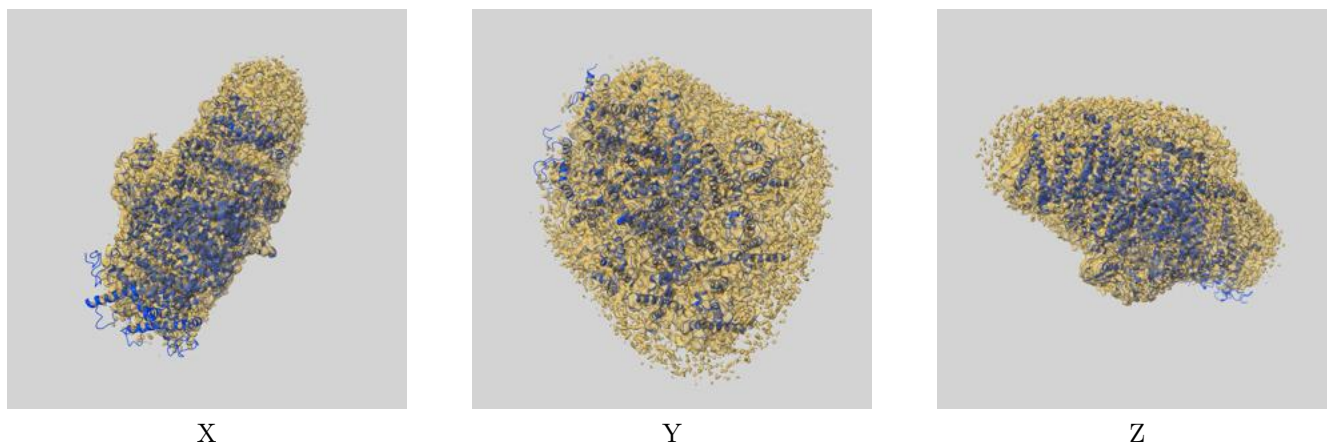
## 8 Fourier-Shell correlation

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

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

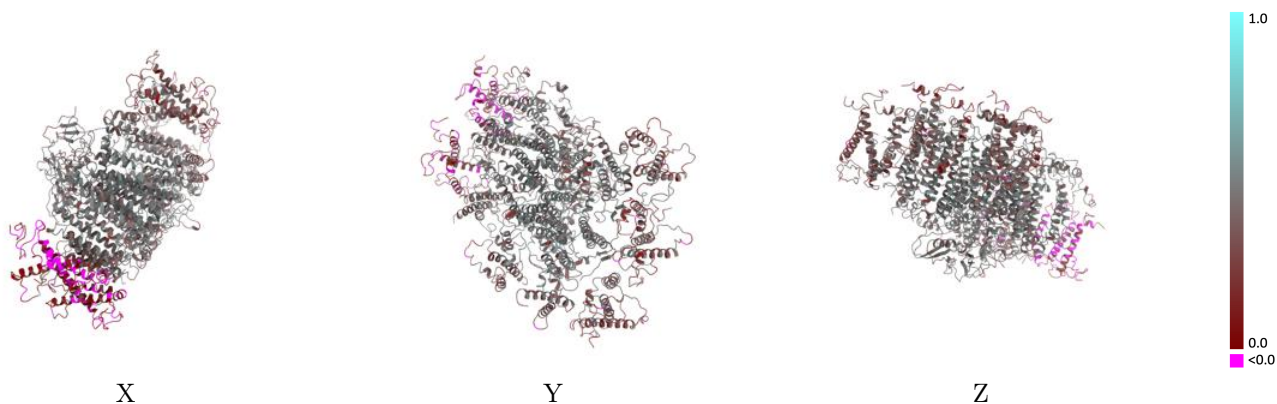
This section contains information regarding the fit between EMDB map EMD-6929 and PDB model 5ZGB. Per-residue inclusion information can be found in section 3 on page 27.

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



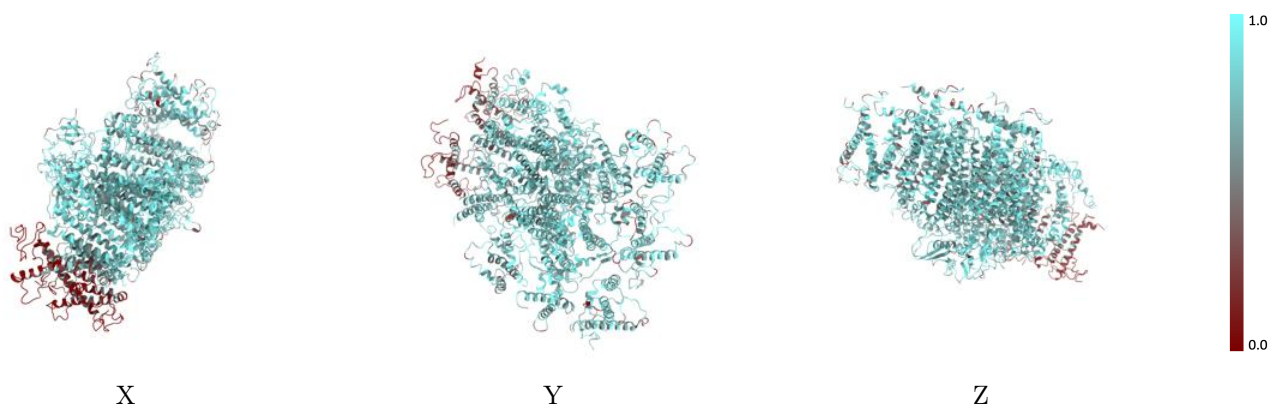
The images above show the 3D surface view of the map at the recommended contour level 0.0562 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



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

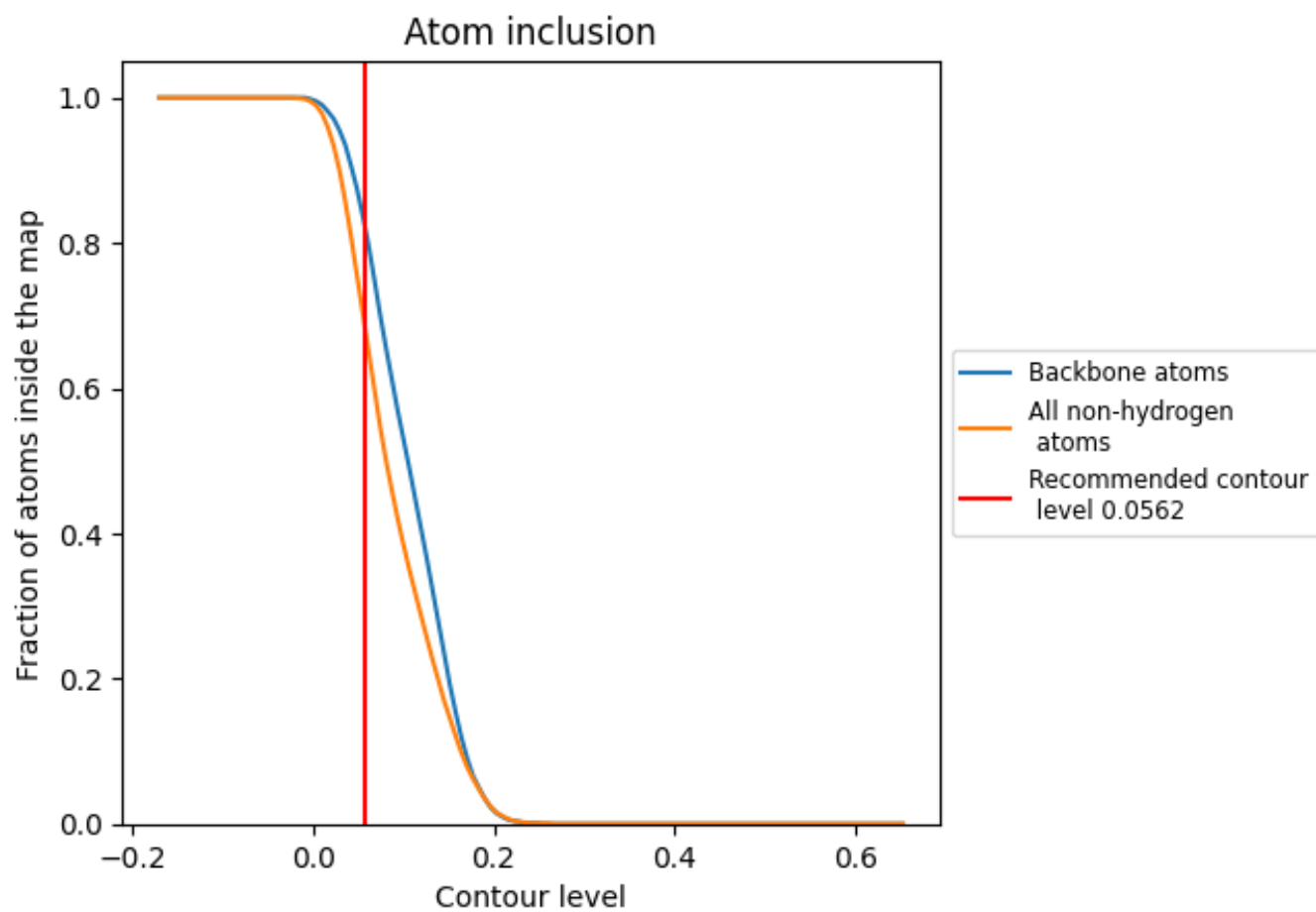
## 9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.0562).







































## 9.4 Atom inclusion [i](#)



At the recommended contour level, 83% of all backbone atoms, 69% of all non-hydrogen atoms, are inside the map.

## 9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.0562) and Q-score for the entire model and for each chain.

| Chain | Atom inclusion   | Q-score  |
|-------|--|--|
| All   |  0.6920   |  0.3990   |
| 1     |  0.7130   |  0.3420   |
| 2     |  0.7000   |  0.3450   |
| 3     |  0.6950   |  0.3520   |
| 4     |  0.2510   |  0.1760   |
| 5     |  0.2330   |  0.0920   |
| A     |  0.7890   |  0.4840   |
| B     |  0.7740   |  0.4690   |
| C     |  0.8660   |  0.4550   |
| D     |  0.7660   |  0.4340   |
| E     |  0.7590   |  0.4220   |
| F     |  0.7560   |  0.4220   |
| I     |  0.6880   |  0.4310   |
| J     |  0.7200   |  0.4820   |
| K     |  0.6950  |  0.3850  |
| L     |  0.7080 |  0.4100 |
| M     |  0.6450 |  0.3860 |
| O     |  0.6730 |  0.3670 |

