



Full wwPDB EM Validation Report ⓘ

Feb 18, 2024 – 07:39 PM JST

PDB ID : 8JW0
EMDB ID : EMD-36678
Title : PSI-AcpPCI supercomplex from *Amphidinium carterae*
Authors : Li, Z.H.; Li, X.Y.; Wang, W.D.
Deposited on : 2023-06-28
Resolution : 2.90 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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

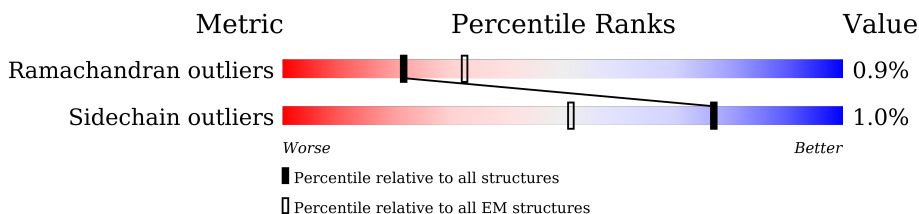
EMDB validation analysis : 0.0.1.dev70
Mogul : 1.8.5 (274361), CSD as541be (2020)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.9
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

1 Overall quality at a glance

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

The reported resolution of this entry is 2.90 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) |
|-----------------------|-----------------------------|-----------------------------|
| Ramachandran outliers | 154571 | 4023 |
| Sidechain outliers | 154315 | 3826 |

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

| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 1 | a | 645 | 5% 99% |
| 2 | b | 617 | 99% |
| 3 | c | 86 | 100% |
| 4 | d | 257 | 99% |
| 5 | e | 74 | 100% |
| 6 | f | 185 | 100% |
| 7 | h | 132 | 95% 5% |
| 8 | i | 126 | 98% |
| 9 | j | 70 | 97% |

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 10 | l | 253 | 100% |
| 11 | m | 89 | 99% |
| 12 | A | 180 | 100% |
| 13 | G | 215 | 99% |
| 14 | I | 194 | 95% 5% |
| 15 | K | 172 | 99% |
| 16 | F | 176 | 99% |
| 17 | J | 165 | 99% |
| 18 | M | 168 | 95% 5% |
| 19 | L | 185 | 97% |
| 20 | D | 160 | 9% 98% |
| 21 | B | 172 | 99% |
| 22 | H | 160 | 52% 97% |
| 23 | N | 160 | 39% 96% |
| 24 | O | 161 | 14% 98% |
| 25 | C | 160 | 99% |
| 25 | T | 160 | 18% 96% |
| 26 | Q | 162 | 99% |
| 27 | P | 160 | 73% 96% |
| 28 | E | 142 | 97% |

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

| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 29 | CLA | A | 206 | X | - | - | - |
| 29 | CLA | A | 207 | X | - | - | - |
| 29 | CLA | A | 208 | X | - | - | - |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 29 | CLA | A | 209 | X | - | - | - |
| 29 | CLA | A | 210 | X | - | - | - |
| 29 | CLA | A | 211 | X | - | - | - |
| 29 | CLA | A | 212 | X | - | - | - |
| 29 | CLA | A | 214 | X | - | - | - |
| 29 | CLA | A | 215 | X | - | - | - |
| 29 | CLA | A | 216 | X | - | - | - |
| 29 | CLA | A | 217 | X | - | - | - |
| 29 | CLA | A | 218 | X | - | - | - |
| 29 | CLA | B | 306 | X | - | - | - |
| 29 | CLA | B | 307 | X | - | - | - |
| 29 | CLA | B | 308 | X | - | - | - |
| 29 | CLA | B | 309 | X | - | - | - |
| 29 | CLA | B | 310 | X | - | - | - |
| 29 | CLA | B | 311 | X | - | - | - |
| 29 | CLA | B | 312 | X | - | - | - |
| 29 | CLA | B | 314 | X | - | - | - |
| 29 | CLA | B | 315 | X | - | - | - |
| 29 | CLA | B | 316 | X | - | - | - |
| 29 | CLA | C | 308 | X | - | - | - |
| 29 | CLA | C | 309 | X | - | - | - |
| 29 | CLA | C | 311 | X | - | - | - |
| 29 | CLA | C | 313 | X | - | - | - |
| 29 | CLA | C | 314 | X | - | - | - |
| 29 | CLA | C | 316 | X | - | - | - |
| 29 | CLA | D | 308 | X | - | - | - |
| 29 | CLA | D | 309 | X | - | - | - |
| 29 | CLA | D | 311 | X | - | - | - |
| 29 | CLA | D | 312 | X | - | - | - |
| 29 | CLA | D | 313 | X | - | - | - |
| 29 | CLA | D | 314 | X | - | - | - |
| 29 | CLA | D | 316 | X | - | - | - |
| 29 | CLA | E | 305 | X | - | - | - |
| 29 | CLA | E | 306 | X | - | - | - |
| 29 | CLA | E | 308 | X | - | - | - |
| 29 | CLA | E | 309 | X | - | - | - |
| 29 | CLA | E | 310 | X | - | - | - |
| 29 | CLA | E | 311 | X | - | - | - |
| 29 | CLA | E | 313 | X | - | - | - |
| 29 | CLA | E | 315 | X | - | - | - |
| 29 | CLA | F | 307 | X | - | - | - |
| 29 | CLA | F | 308 | X | - | - | - |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 29 | CLA | F | 310 | X | - | - | - |
| 29 | CLA | F | 311 | X | - | - | - |
| 29 | CLA | F | 312 | X | - | - | - |
| 29 | CLA | F | 313 | X | - | - | - |
| 29 | CLA | F | 315 | X | - | - | - |
| 29 | CLA | F | 316 | X | - | - | - |
| 29 | CLA | G | 301 | X | - | - | - |
| 29 | CLA | G | 302 | X | - | - | - |
| 29 | CLA | G | 304 | X | - | - | - |
| 29 | CLA | G | 311 | X | - | - | - |
| 29 | CLA | G | 312 | X | - | - | - |
| 29 | CLA | G | 313 | X | - | - | - |
| 29 | CLA | G | 314 | X | - | - | - |
| 29 | CLA | G | 316 | X | - | - | - |
| 29 | CLA | G | 317 | X | - | - | - |
| 29 | CLA | G | 319 | X | - | - | - |
| 29 | CLA | H | 307 | X | - | - | - |
| 29 | CLA | H | 308 | X | - | - | - |
| 29 | CLA | H | 310 | X | - | - | - |
| 29 | CLA | H | 312 | X | - | - | - |
| 29 | CLA | H | 313 | X | - | - | - |
| 29 | CLA | H | 315 | X | - | - | - |
| 29 | CLA | I | 201 | X | - | - | - |
| 29 | CLA | I | 207 | X | - | - | - |
| 29 | CLA | I | 208 | X | - | - | - |
| 29 | CLA | I | 209 | X | - | - | - |
| 29 | CLA | I | 210 | X | - | - | - |
| 29 | CLA | I | 211 | X | - | - | - |
| 29 | CLA | I | 212 | X | - | - | - |
| 29 | CLA | I | 213 | X | - | - | - |
| 29 | CLA | I | 214 | X | - | - | - |
| 29 | CLA | I | 216 | X | - | - | - |
| 29 | CLA | I | 217 | X | - | - | - |
| 29 | CLA | J | 305 | X | - | - | - |
| 29 | CLA | J | 306 | X | - | - | - |
| 29 | CLA | J | 307 | X | - | - | - |
| 29 | CLA | J | 308 | X | - | - | - |
| 29 | CLA | J | 309 | X | - | - | - |
| 29 | CLA | J | 310 | X | - | - | - |
| 29 | CLA | J | 311 | X | - | - | - |
| 29 | CLA | J | 313 | X | - | - | - |
| 29 | CLA | K | 207 | X | - | - | - |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 29 | CLA | K | 208 | X | - | - | - |
| 29 | CLA | K | 209 | X | - | - | - |
| 29 | CLA | K | 210 | X | - | - | - |
| 29 | CLA | K | 211 | X | - | - | - |
| 29 | CLA | K | 212 | X | - | - | - |
| 29 | CLA | K | 213 | X | - | - | - |
| 29 | CLA | K | 214 | X | - | - | - |
| 29 | CLA | K | 216 | X | - | - | - |
| 29 | CLA | K | 217 | X | - | - | - |
| 29 | CLA | K | 218 | X | - | - | - |
| 29 | CLA | L | 307 | X | - | - | - |
| 29 | CLA | L | 308 | X | - | - | - |
| 29 | CLA | L | 309 | X | - | - | - |
| 29 | CLA | L | 310 | X | - | - | - |
| 29 | CLA | L | 311 | X | - | - | - |
| 29 | CLA | L | 312 | X | - | - | - |
| 29 | CLA | L | 313 | X | - | - | - |
| 29 | CLA | L | 315 | X | - | - | - |
| 29 | CLA | L | 316 | X | - | - | - |
| 29 | CLA | L | 317 | X | - | - | - |
| 29 | CLA | M | 306 | X | - | - | - |
| 29 | CLA | M | 307 | X | - | - | - |
| 29 | CLA | M | 308 | X | - | - | - |
| 29 | CLA | M | 309 | X | - | - | - |
| 29 | CLA | M | 310 | X | - | - | - |
| 29 | CLA | M | 311 | X | - | - | - |
| 29 | CLA | M | 313 | X | - | - | - |
| 29 | CLA | M | 314 | X | - | - | - |
| 29 | CLA | M | 315 | X | - | - | - |
| 29 | CLA | N | 308 | X | - | - | - |
| 29 | CLA | N | 309 | X | - | - | - |
| 29 | CLA | N | 311 | X | - | - | - |
| 29 | CLA | N | 313 | X | - | - | - |
| 29 | CLA | N | 314 | X | - | - | - |
| 29 | CLA | N | 316 | X | - | - | - |
| 29 | CLA | O | 308 | X | - | - | - |
| 29 | CLA | O | 311 | X | - | - | - |
| 29 | CLA | O | 313 | X | - | - | - |
| 29 | CLA | O | 316 | X | - | - | - |
| 29 | CLA | P | 209 | X | - | - | - |
| 29 | CLA | P | 210 | X | - | - | - |
| 29 | CLA | P | 212 | X | - | - | - |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 29 | CLA | P | 214 | X | - | - | - |
| 29 | CLA | P | 215 | X | - | - | - |
| 29 | CLA | P | 217 | X | - | - | - |
| 29 | CLA | Q | 307 | X | - | - | - |
| 29 | CLA | Q | 308 | X | - | - | - |
| 29 | CLA | Q | 310 | X | - | - | - |
| 29 | CLA | Q | 312 | X | - | - | - |
| 29 | CLA | Q | 313 | X | - | - | - |
| 29 | CLA | Q | 315 | X | - | - | - |
| 29 | CLA | T | 308 | X | - | - | - |
| 29 | CLA | T | 309 | X | - | - | - |
| 29 | CLA | T | 311 | X | - | - | - |
| 29 | CLA | T | 313 | X | - | - | - |
| 29 | CLA | T | 314 | X | - | - | - |
| 29 | CLA | T | 316 | X | - | - | - |
| 29 | CLA | a | 801 | X | - | - | - |
| 29 | CLA | a | 802 | X | - | - | - |
| 29 | CLA | a | 803 | X | - | - | - |
| 29 | CLA | a | 804 | X | - | - | - |
| 29 | CLA | a | 805 | X | - | - | - |
| 29 | CLA | a | 806 | X | - | - | - |
| 29 | CLA | a | 807 | X | - | - | - |
| 29 | CLA | a | 808 | X | - | - | - |
| 29 | CLA | a | 809 | X | - | - | - |
| 29 | CLA | a | 810 | X | - | - | - |
| 29 | CLA | a | 811 | X | - | - | - |
| 29 | CLA | a | 812 | X | - | - | - |
| 29 | CLA | a | 813 | X | - | - | - |
| 29 | CLA | a | 814 | X | - | - | - |
| 29 | CLA | a | 815 | X | - | - | - |
| 29 | CLA | a | 816 | X | - | - | - |
| 29 | CLA | a | 817 | X | - | - | - |
| 29 | CLA | a | 818 | X | - | - | - |
| 29 | CLA | a | 819 | X | - | - | - |
| 29 | CLA | a | 820 | X | - | - | - |
| 29 | CLA | a | 821 | X | - | - | - |
| 29 | CLA | a | 822 | X | - | - | - |
| 29 | CLA | a | 823 | X | - | - | - |
| 29 | CLA | a | 824 | X | - | - | - |
| 29 | CLA | a | 825 | X | - | - | - |
| 29 | CLA | a | 826 | X | - | - | - |
| 29 | CLA | a | 827 | X | - | - | - |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 29 | CLA | a | 828 | X | - | - | - |
| 29 | CLA | a | 829 | X | - | - | - |
| 29 | CLA | a | 830 | X | - | - | - |
| 29 | CLA | a | 831 | X | - | - | - |
| 29 | CLA | a | 837 | X | - | - | - |
| 29 | CLA | b | 701 | X | - | - | - |
| 29 | CLA | b | 702 | X | - | - | - |
| 29 | CLA | b | 703 | X | - | - | - |
| 29 | CLA | b | 704 | X | - | - | - |
| 29 | CLA | b | 705 | X | - | - | - |
| 29 | CLA | b | 706 | X | - | - | - |
| 29 | CLA | b | 707 | X | - | - | - |
| 29 | CLA | b | 708 | X | - | - | - |
| 29 | CLA | b | 709 | X | - | - | - |
| 29 | CLA | b | 710 | X | - | - | - |
| 29 | CLA | b | 711 | X | - | - | - |
| 29 | CLA | b | 712 | X | - | - | - |
| 29 | CLA | b | 713 | X | - | - | - |
| 29 | CLA | b | 714 | X | - | - | - |
| 29 | CLA | b | 715 | X | - | - | - |
| 29 | CLA | b | 716 | X | - | - | - |
| 29 | CLA | b | 717 | X | - | - | - |
| 29 | CLA | b | 718 | X | - | - | - |
| 29 | CLA | b | 719 | X | - | - | - |
| 29 | CLA | b | 720 | X | - | - | - |
| 29 | CLA | b | 721 | X | - | - | - |
| 29 | CLA | b | 722 | X | - | - | - |
| 29 | CLA | b | 723 | X | - | - | - |
| 29 | CLA | b | 724 | X | - | - | - |
| 29 | CLA | b | 725 | X | - | - | - |
| 29 | CLA | b | 726 | X | - | - | - |
| 29 | CLA | b | 731 | X | - | - | - |
| 29 | CLA | b | 736 | X | - | - | - |
| 29 | CLA | f | 802 | X | - | - | - |
| 29 | CLA | f | 803 | X | - | - | - |
| 29 | CLA | f | 805 | X | - | - | - |
| 29 | CLA | h | 201 | X | - | - | - |
| 29 | CLA | i | 201 | X | - | - | - |
| 29 | CLA | i | 202 | X | - | - | - |
| 29 | CLA | i | 203 | X | - | - | - |
| 29 | CLA | j | 104 | X | - | - | - |
| 29 | CLA | l | 501 | X | - | - | - |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|------------|-------------|--------------|------------|------------------|-----------------|----------------|-------------------------|
| 29 | CLA | 1 | 502 | X | - | - | - |
| 29 | CLA | 1 | 503 | X | - | - | - |
| 29 | CLA | 1 | 504 | X | - | - | - |
| 29 | CLA | 1 | 505 | X | - | - | - |
| 29 | CLA | 1 | 508 | X | - | - | - |
| 29 | CLA | 1 | 509 | X | - | - | - |
| 29 | CLA | 1 | 510 | X | - | - | - |

2 Entry composition [i](#)

There are 40 unique types of molecules in this entry. The entry contains 63119 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 Photosystem I PsaA.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|----|---------|-------|
| | | | Total | C | N | O | S | | |
| 1 | a | 645 | Total | C | N | O | S | 0 | 0 |
| | | | 4980 | 3267 | 825 | 874 | 14 | | |

- Molecule 2 is a protein called Photosystem I PsaB.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|----|---------|-------|
| | | | Total | C | N | O | S | | |
| 2 | b | 617 | Total | C | N | O | S | 0 | 0 |
| | | | 4813 | 3185 | 765 | 848 | 15 | | |

- Molecule 3 is a protein called Photosystem I PsaC.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 3 | c | 86 | Total | C | N | O | S | 0 | 0 |
| | | | 647 | 401 | 109 | 128 | 9 | | |

- Molecule 4 is a protein called Photosystem I PsaD.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|----|---------|-------|
| | | | Total | C | N | O | S | | |
| 4 | d | 257 | Total | C | N | O | S | 0 | 0 |
| | | | 1985 | 1259 | 340 | 375 | 11 | | |

- Molecule 5 is a protein called Photosystem I PsaE.

| Mol | Chain | Residues | Atoms | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|-------|
| | | | Total | C | N | O | | |
| 5 | e | 74 | Total | C | N | O | 0 | 0 |
| | | | 607 | 392 | 102 | 113 | | |

- Molecule 6 is a protein called Photosystem I PsaF.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 6 | f | 185 | Total | C | N | O | S | 0 | 0 |
| | | | 1455 | 926 | 257 | 263 | 9 | | |

- Molecule 7 is a protein called Photosystem I PsaR.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 7 | h | 132 | 1056 | 693 | 167 | 191 | 5 | 0 | 0 |

- Molecule 8 is a protein called Photosystem I PsaI.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 8 | i | 126 | 1001 | 651 | 164 | 183 | 3 | 0 | 0 |

- Molecule 9 is a protein called Photosystem I PsaJ.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 9 | j | 70 | 549 | 362 | 86 | 100 | 1 | 0 | 0 |

- Molecule 10 is a protein called Photosystem I PsaL.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|----|---------|-------|
| | | | Total | C | N | O | S | | |
| 10 | l | 253 | 1961 | 1274 | 321 | 355 | 11 | 0 | 0 |

- Molecule 11 is a protein called Photosystem I PsaM.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 11 | m | 89 | 679 | 438 | 109 | 131 | 1 | 0 | 0 |

- Molecule 12 is a protein called Chlorophyll a-chlorophyll c-peridinin-protein-complex I-10, acpPCI-10.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|----|---------|-------|
| | | | Total | C | N | O | S | | |
| 12 | A | 180 | 1358 | 882 | 221 | 245 | 10 | 0 | 0 |

- Molecule 13 is a protein called Chlorophyll a-chlorophyll c-peridinin-protein-complex I-8, acpPCI-8.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|----|---------|-------|
| | | | Total | C | N | O | S | | |
| 13 | G | 215 | 1675 | 1086 | 278 | 299 | 12 | 0 | 0 |

- Molecule 14 is a protein called Chlorophyll a-chlorophyll c-peridinin-protein-complex I-7, acpPCI-7.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|----|---------|-------|
| | | | Total | C | N | O | S | | |
| 14 | I | 194 | 1455 | 946 | 244 | 253 | 12 | 0 | 0 |

- Molecule 15 is a protein called Chlorophyll a-chlorophyll c-peridinin-protein-complex I-6, acpPCI-6.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|----|---------|-------|
| | | | Total | C | N | O | S | | |
| 15 | K | 172 | 1325 | 857 | 222 | 234 | 12 | 0 | 0 |

- Molecule 16 is a protein called Chlorophyll a-chlorophyll c-peridinin-protein-complex I-2, acpPCI-2.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|----|---------|-------|
| | | | Total | C | N | O | S | | |
| 16 | F | 176 | 1356 | 869 | 226 | 249 | 12 | 0 | 0 |

- Molecule 17 is a protein called Chlorophyll a-chlorophyll c-peridinin-protein-complex I-3, acpPCI-3.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 17 | J | 165 | 1282 | 828 | 207 | 239 | 8 | 0 | 0 |

- Molecule 18 is a protein called Chlorophyll a-chlorophyll c-peridinin-protein-complex I-4, acpPCI-4.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 18 | M | 168 | 1346 | 885 | 224 | 232 | 5 | 0 | 0 |

- Molecule 19 is a protein called Chlorophyll a-chlorophyll c-peridinin-protein-complex I-5, acpPCI-5.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 19 | L | 185 | 1453 | 942 | 242 | 263 | 6 | 0 | 0 |

- Molecule 20 is a protein called Chlorophyll a-chlorophyll c-peridinin-protein-complex I-9, acpPCI-9.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 20 | D | 160 | 1198 | 761 | 200 | 230 | 7 | 0 | 0 |

- Molecule 21 is a protein called Chlorophyll a-chlorophyll c-peridinin-protein-complex I-11, acpPCI-11.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|----|---------|-------|
| | | | Total | C | N | O | S | | |
| 21 | B | 172 | 1371 | 888 | 226 | 245 | 12 | 0 | 0 |

- Molecule 22 is a protein called Chlorophyll a-chlorophyll c-peridinin-protein-complex I-12, acpPCI-12.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 22 | H | 160 | 1202 | 769 | 198 | 228 | 7 | 0 | 0 |

- Molecule 23 is a protein called Chlorophyll a-chlorophyll c-peridinin-protein-complex I-13, acpPCI-13.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 23 | N | 160 | 1203 | 767 | 200 | 229 | 7 | 0 | 0 |

- Molecule 24 is a protein called Chlorophyll a-chlorophyll c-peridinin-protein-complex I-15, acpPCI-15.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 24 | O | 161 | 1226 | 789 | 204 | 226 | 7 | 0 | 0 |

- Molecule 25 is a protein called Chlorophyll a-chlorophyll c-peridinin-protein-complex I-16, acpPCI-16.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 25 | T | 159 | 1189 | 756 | 199 | 226 | 8 | 0 | 0 |
| 25 | C | 160 | 1200 | 765 | 200 | 227 | 8 | 0 | 0 |

- Molecule 26 is a protein called Chlorophyll a-chlorophyll c-peridinin-protein-complex I-17, acpPCI-17.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 26 | Q | 162 | 1219 | 787 | 204 | 219 | 9 | 0 | 0 |

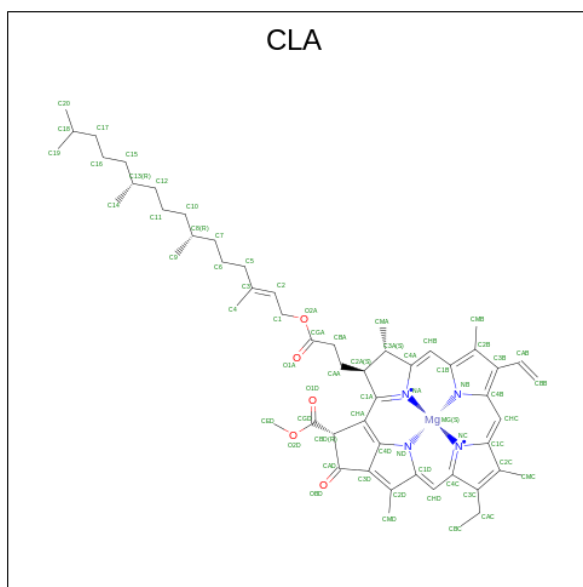
- Molecule 27 is a protein called Chlorophyll a-chlorophyll c-peridinin-protein-complex I-14, acpPCI-14.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 27 | P | 160 | 1218 | 778 | 204 | 228 | 8 | 0 | 0 |

- Molecule 28 is a protein called Chlorophyll a-chlorophyll c-peridinin-protein-complex I-1, acpPCI-1.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 28 | E | 142 | 1071 | 684 | 178 | 201 | 8 | 0 | 0 |

- Molecule 29 is CHLOROPHYLL A (three-letter code: CLA) (formula: $C_{55}H_{72}MgN_4O_5$) (labeled as "Ligand of Interest" by depositor).



| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|
| | | | Total | C | Mg | N | O | |
| 29 | a | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | a | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | a | 1 | 65 | 55 | 1 | 4 | 5 | 0 |

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| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|
| | | | Total | C | Mg | N | O | |
| 29 | a | 1 | 55 | 45 | 1 | 4 | 5 | 0 |
| 29 | a | 1 | 55 | 45 | 1 | 4 | 5 | 0 |
| 29 | a | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | a | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | a | 1 | 51 | 41 | 1 | 4 | 5 | 0 |
| 29 | a | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | a | 1 | 55 | 45 | 1 | 4 | 5 | 0 |
| 29 | a | 1 | 56 | 46 | 1 | 4 | 5 | 0 |
| 29 | a | 1 | 60 | 50 | 1 | 4 | 5 | 0 |
| 29 | a | 1 | 51 | 41 | 1 | 4 | 5 | 0 |
| 29 | a | 1 | 46 | 36 | 1 | 4 | 5 | 0 |
| 29 | a | 1 | 45 | 35 | 1 | 4 | 5 | 0 |
| 29 | a | 1 | 46 | 36 | 1 | 4 | 5 | 0 |
| 29 | a | 1 | 45 | 35 | 1 | 4 | 5 | 0 |
| 29 | a | 1 | 47 | 37 | 1 | 4 | 5 | 0 |
| 29 | a | 1 | 57 | 47 | 1 | 4 | 5 | 0 |
| 29 | a | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | a | 1 | 47 | 37 | 1 | 4 | 5 | 0 |
| 29 | a | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | a | 1 | 58 | 48 | 1 | 4 | 5 | 0 |
| 29 | a | 1 | 65 | 55 | 1 | 4 | 5 | 0 |

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| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|
| | | | Total | C | Mg | N | O | |
| 29 | a | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | a | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | a | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | a | 1 | 46 | 36 | 1 | 4 | 5 | 0 |
| 29 | a | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | a | 1 | 56 | 46 | 1 | 4 | 5 | 0 |
| 29 | a | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | a | 1 | 55 | 45 | 1 | 4 | 5 | 0 |
| 29 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | b | 1 | 52 | 42 | 1 | 4 | 5 | 0 |
| 29 | b | 1 | 60 | 50 | 1 | 4 | 5 | 0 |
| 29 | b | 1 | 46 | 36 | 1 | 4 | 5 | 0 |
| 29 | b | 1 | 58 | 48 | 1 | 4 | 5 | 0 |
| 29 | b | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | b | 1 | 53 | 43 | 1 | 4 | 5 | 0 |

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| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|-------------|---------|---------|--------|--------|---------|
| | | | Total | C | Mg | N | O | |
| 29 | b | 1 | Total 64 | C 54 | Mg 1 | N 4 | O 5 | 0 |
| 29 | b | 1 | Total 46 | C 36 | Mg 1 | N 4 | O 5 | 0 |
| 29 | b | 1 | Total 53 | C 43 | Mg 1 | N 4 | O 5 | 0 |
| 29 | b | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 |
| 29 | b | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 |
| 29 | b | 1 | Total 50 | C 40 | Mg 1 | N 4 | O 5 | 0 |
| 29 | b | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 |
| 29 | b | 1 | Total 58 | C 48 | Mg 1 | N 4 | O 5 | 0 |
| 29 | b | 1 | Total 58 | C 48 | Mg 1 | N 4 | O 5 | 0 |
| 29 | b | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 |
| 29 | b | 1 | Total 47 | C 37 | Mg 1 | N 4 | O 5 | 0 |
| 29 | b | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 |
| 29 | b | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 |
| 29 | b | 1 | Total 56 | C 46 | Mg 1 | N 4 | O 5 | 0 |
| 29 | b | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 |
| 29 | f | 1 | Total 46 | C 36 | Mg 1 | N 4 | O 5 | 0 |
| 29 | f | 1 | Total 46 | C 36 | Mg 1 | N 4 | O 5 | 0 |
| 29 | f | 1 | Total 60 | C 50 | Mg 1 | N 4 | O 5 | 0 |
| 29 | h | 1 | Total 60 | C 50 | Mg 1 | N 4 | O 5 | 0 |
| 29 | i | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 |
| 29 | i | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 |

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| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|
| | | | Total | C | Mg | N | O | |
| 29 | i | 1 | 55 | 45 | 1 | 4 | 5 | 0 |
| 29 | j | 1 | 52 | 42 | 1 | 4 | 5 | 0 |
| 29 | l | 1 | 60 | 50 | 1 | 4 | 5 | 0 |
| 29 | l | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | l | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | l | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | l | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | l | 1 | 41 | 33 | 1 | 4 | 3 | 0 |
| 29 | l | 1 | 41 | 33 | 1 | 4 | 3 | 0 |
| 29 | l | 1 | 45 | 35 | 1 | 4 | 5 | 0 |
| 29 | A | 1 | 45 | 35 | 1 | 4 | 5 | 0 |
| 29 | A | 1 | 55 | 45 | 1 | 4 | 5 | 0 |
| 29 | A | 1 | 55 | 45 | 1 | 4 | 5 | 0 |
| 29 | A | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | A | 1 | 46 | 36 | 1 | 4 | 5 | 0 |
| 29 | A | 1 | 55 | 45 | 1 | 4 | 5 | 0 |
| 29 | A | 1 | 55 | 45 | 1 | 4 | 5 | 0 |
| 29 | A | 1 | 41 | 33 | 1 | 4 | 3 | 0 |
| 29 | A | 1 | 47 | 37 | 1 | 4 | 5 | 0 |
| 29 | A | 1 | 41 | 33 | 1 | 4 | 3 | 0 |
| 29 | A | 1 | 51 | 41 | 1 | 4 | 5 | 0 |

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| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|
| | | | Total | C | Mg | N | O | |
| 29 | A | 1 | 60 | 50 | 1 | 4 | 5 | 0 |
| 29 | G | 1 | 49 | 39 | 1 | 4 | 5 | 0 |
| 29 | G | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | G | 1 | 61 | 51 | 1 | 4 | 5 | 0 |
| 29 | G | 1 | 51 | 41 | 1 | 4 | 5 | 0 |
| 29 | G | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | G | 1 | 55 | 45 | 1 | 4 | 5 | 0 |
| 29 | G | 1 | 60 | 50 | 1 | 4 | 5 | 0 |
| 29 | G | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | G | 1 | 53 | 43 | 1 | 4 | 5 | 0 |
| 29 | G | 1 | 41 | 33 | 1 | 4 | 3 | 0 |
| 29 | I | 1 | 45 | 35 | 1 | 4 | 5 | 0 |
| 29 | I | 1 | 49 | 39 | 1 | 4 | 5 | 0 |
| 29 | I | 1 | 46 | 36 | 1 | 4 | 5 | 0 |
| 29 | I | 1 | 60 | 50 | 1 | 4 | 5 | 0 |
| 29 | I | 1 | 55 | 45 | 1 | 4 | 5 | 0 |
| 29 | I | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | I | 1 | 55 | 45 | 1 | 4 | 5 | 0 |
| 29 | I | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | I | 1 | 55 | 45 | 1 | 4 | 5 | 0 |
| 29 | I | 1 | 52 | 42 | 1 | 4 | 5 | 0 |

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| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|
| | | | Total | C | Mg | N | O | |
| 29 | I | 1 | 55 | 45 | 1 | 4 | 5 | 0 |
| 29 | K | 1 | 49 | 39 | 1 | 4 | 5 | 0 |
| 29 | K | 1 | 46 | 36 | 1 | 4 | 5 | 0 |
| 29 | K | 1 | 54 | 44 | 1 | 4 | 5 | 0 |
| 29 | K | 1 | 50 | 40 | 1 | 4 | 5 | 0 |
| 29 | K | 1 | 55 | 45 | 1 | 4 | 5 | 0 |
| 29 | K | 1 | 52 | 42 | 1 | 4 | 5 | 0 |
| 29 | K | 1 | 48 | 38 | 1 | 4 | 5 | 0 |
| 29 | K | 1 | 55 | 45 | 1 | 4 | 5 | 0 |
| 29 | K | 1 | 41 | 33 | 1 | 4 | 3 | 0 |
| 29 | K | 1 | 46 | 36 | 1 | 4 | 5 | 0 |
| 29 | K | 1 | 45 | 35 | 1 | 4 | 5 | 0 |
| 29 | F | 1 | 46 | 36 | 1 | 4 | 5 | 0 |
| 29 | F | 1 | 46 | 36 | 1 | 4 | 5 | 0 |
| 29 | F | 1 | 46 | 36 | 1 | 4 | 5 | 0 |
| 29 | F | 1 | 46 | 36 | 1 | 4 | 5 | 0 |
| 29 | F | 1 | 46 | 36 | 1 | 4 | 5 | 0 |
| 29 | F | 1 | 41 | 33 | 1 | 4 | 3 | 0 |
| 29 | F | 1 | 41 | 33 | 1 | 4 | 3 | 0 |
| 29 | J | 1 | 46 | 36 | 1 | 4 | 5 | 0 |

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| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|
| | | | Total | C | Mg | N | O | |
| 29 | J | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | J | 1 | 46 | 36 | 1 | 4 | 5 | 0 |
| 29 | J | 1 | 56 | 46 | 1 | 4 | 5 | 0 |
| 29 | J | 1 | 46 | 36 | 1 | 4 | 5 | 0 |
| 29 | J | 1 | 47 | 37 | 1 | 4 | 5 | 0 |
| 29 | J | 1 | 53 | 43 | 1 | 4 | 5 | 0 |
| 29 | J | 1 | 41 | 33 | 1 | 4 | 3 | 0 |
| 29 | M | 1 | 53 | 43 | 1 | 4 | 5 | 0 |
| 29 | M | 1 | 55 | 45 | 1 | 4 | 5 | 0 |
| 29 | M | 1 | 48 | 38 | 1 | 4 | 5 | 0 |
| 29 | M | 1 | 46 | 36 | 1 | 4 | 5 | 0 |
| 29 | M | 1 | 48 | 38 | 1 | 4 | 5 | 0 |
| 29 | M | 1 | 46 | 36 | 1 | 4 | 5 | 0 |
| 29 | M | 1 | 41 | 33 | 1 | 4 | 3 | 0 |
| 29 | M | 1 | 52 | 42 | 1 | 4 | 5 | 0 |
| 29 | M | 1 | 46 | 36 | 1 | 4 | 5 | 0 |
| 29 | L | 1 | 50 | 40 | 1 | 4 | 5 | 0 |
| 29 | L | 1 | 53 | 43 | 1 | 4 | 5 | 0 |
| 29 | L | 1 | 55 | 45 | 1 | 4 | 5 | 0 |
| 29 | L | 1 | 55 | 45 | 1 | 4 | 5 | 0 |
| 29 | L | 1 | 46 | 36 | 1 | 4 | 5 | 0 |

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| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|
| | | | Total | C | Mg | N | O | |
| 29 | L | 1 | 55 | 45 | 1 | 4 | 5 | 0 |
| 29 | L | 1 | 53 | 43 | 1 | 4 | 5 | 0 |
| 29 | L | 1 | 41 | 33 | 1 | 4 | 3 | 0 |
| 29 | L | 1 | 52 | 42 | 1 | 4 | 5 | 0 |
| 29 | L | 1 | 46 | 36 | 1 | 4 | 5 | 0 |
| 29 | D | 1 | 47 | 37 | 1 | 4 | 5 | 0 |
| 29 | D | 1 | 46 | 36 | 1 | 4 | 5 | 0 |
| 29 | D | 1 | 46 | 36 | 1 | 4 | 5 | 0 |
| 29 | D | 1 | 46 | 36 | 1 | 4 | 5 | 0 |
| 29 | D | 1 | 45 | 35 | 1 | 4 | 5 | 0 |
| 29 | D | 1 | 47 | 37 | 1 | 4 | 5 | 0 |
| 29 | D | 1 | 41 | 33 | 1 | 4 | 3 | 0 |
| 29 | B | 1 | 49 | 39 | 1 | 4 | 5 | 0 |
| 29 | B | 1 | 45 | 35 | 1 | 4 | 5 | 0 |
| 29 | B | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | B | 1 | 55 | 45 | 1 | 4 | 5 | 0 |
| 29 | B | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | B | 1 | 51 | 41 | 1 | 4 | 5 | 0 |
| 29 | B | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | B | 1 | 41 | 33 | 1 | 4 | 3 | 0 |
| 29 | B | 1 | 46 | 36 | 1 | 4 | 5 | 0 |

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| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|
| | | | Total | C | Mg | N | O | |
| 29 | B | 1 | 45 | 35 | 1 | 4 | 5 | 0 |
| 29 | H | 1 | 47 | 37 | 1 | 4 | 5 | 0 |
| 29 | H | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | H | 1 | 51 | 41 | 1 | 4 | 5 | 0 |
| 29 | H | 1 | 46 | 36 | 1 | 4 | 5 | 0 |
| 29 | H | 1 | 47 | 37 | 1 | 4 | 5 | 0 |
| 29 | H | 1 | 41 | 33 | 1 | 4 | 3 | 0 |
| 29 | N | 1 | 47 | 37 | 1 | 4 | 5 | 0 |
| 29 | N | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | N | 1 | 51 | 41 | 1 | 4 | 5 | 0 |
| 29 | N | 1 | 46 | 36 | 1 | 4 | 5 | 0 |
| 29 | N | 1 | 47 | 37 | 1 | 4 | 5 | 0 |
| 29 | N | 1 | 41 | 33 | 1 | 4 | 3 | 0 |
| 29 | O | 1 | 47 | 37 | 1 | 4 | 5 | 0 |
| 29 | O | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | O | 1 | 51 | 41 | 1 | 4 | 5 | 0 |
| 29 | O | 1 | 46 | 36 | 1 | 4 | 5 | 0 |
| 29 | O | 1 | 47 | 37 | 1 | 4 | 5 | 0 |
| 29 | O | 1 | 41 | 33 | 1 | 4 | 3 | 0 |
| 29 | T | 1 | 47 | 37 | 1 | 4 | 5 | 0 |
| 29 | T | 1 | 46 | 36 | 1 | 4 | 5 | 0 |

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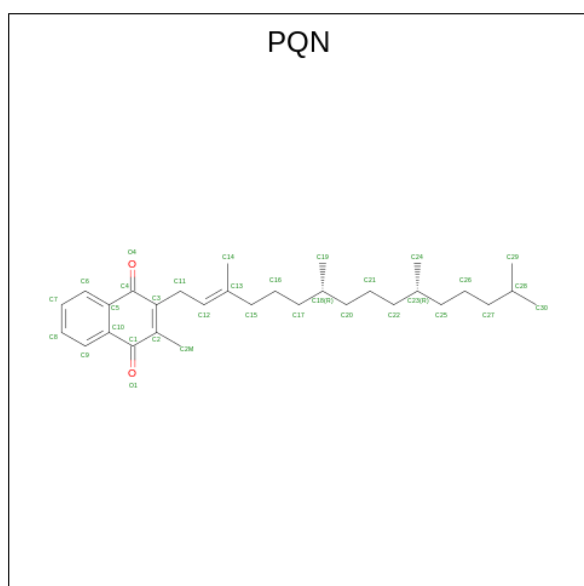
| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|
| | | | Total | C | Mg | N | O | |
| 29 | T | 1 | 46 | 36 | 1 | 4 | 5 | 0 |
| 29 | T | 1 | 46 | 36 | 1 | 4 | 5 | 0 |
| 29 | T | 1 | 47 | 37 | 1 | 4 | 5 | 0 |
| 29 | T | 1 | 41 | 33 | 1 | 4 | 3 | 0 |
| 29 | Q | 1 | 47 | 37 | 1 | 4 | 5 | 0 |
| 29 | Q | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | Q | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | Q | 1 | 46 | 36 | 1 | 4 | 5 | 0 |
| 29 | Q | 1 | 47 | 37 | 1 | 4 | 5 | 0 |
| 29 | Q | 1 | 41 | 33 | 1 | 4 | 3 | 0 |
| 29 | C | 1 | 47 | 37 | 1 | 4 | 5 | 0 |
| 29 | C | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | C | 1 | 51 | 41 | 1 | 4 | 5 | 0 |
| 29 | C | 1 | 46 | 36 | 1 | 4 | 5 | 0 |
| 29 | C | 1 | 47 | 37 | 1 | 4 | 5 | 0 |
| 29 | C | 1 | 41 | 33 | 1 | 4 | 3 | 0 |
| 29 | P | 1 | 47 | 37 | 1 | 4 | 5 | 0 |
| 29 | P | 1 | 65 | 55 | 1 | 4 | 5 | 0 |
| 29 | P | 1 | 51 | 41 | 1 | 4 | 5 | 0 |
| 29 | P | 1 | 46 | 36 | 1 | 4 | 5 | 0 |
| 29 | P | 1 | 47 | 37 | 1 | 4 | 5 | 0 |

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| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|-------------|---------|---------|--------|--------|---------|
| | | | Total | C | Mg | N | O | |
| 29 | P | 1 | Total 41 | C 33 | Mg 1 | N 4 | O 3 | 0 |
| 29 | E | 1 | Total 61 | C 51 | Mg 1 | N 4 | O 5 | 0 |
| 29 | E | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 |
| 29 | E | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 |
| 29 | E | 1 | Total 46 | C 36 | Mg 1 | N 4 | O 5 | 0 |
| 29 | E | 1 | Total 46 | C 36 | Mg 1 | N 4 | O 5 | 0 |
| 29 | E | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 |
| 29 | E | 1 | Total 41 | C 33 | Mg 1 | N 4 | O 3 | 0 |
| 29 | E | 1 | Total 48 | C 38 | Mg 1 | N 4 | O 5 | 0 |
| 29 | E | 1 | Total 57 | C 47 | Mg 1 | N 4 | O 5 | 0 |

- Molecule 30 is PHYLLOQUINONE (three-letter code: PQN) (formula: C₃₁H₄₆O₂).



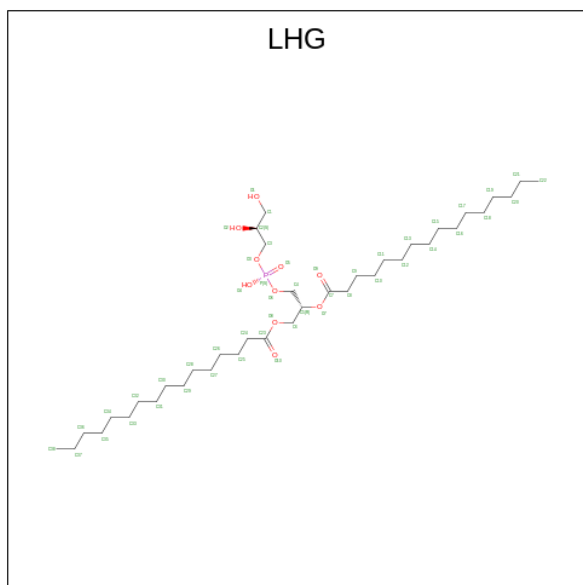
| Mol | Chain | Residues | Atoms | | | AltConf |
|-----|-------|----------|-------------|---------|--------|---------|
| | | | Total | C | O | |
| 30 | a | 1 | Total 33 | C 31 | O 2 | 0 |

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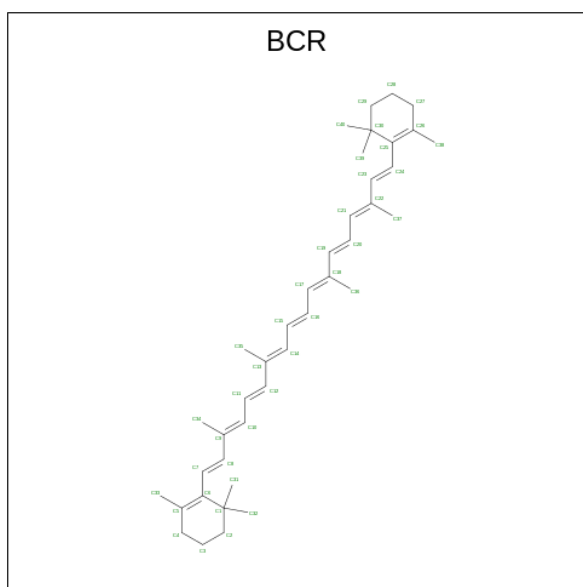
| Mol | Chain | Residues | Atoms | | | AltConf |
|-----|-------|----------|-------|----|---|---------|
| | | | Total | C | O | |
| 30 | b | 1 | 33 | 31 | 2 | 0 |

- Molecule 31 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (three-letter code: LHG) (formula: $C_{38}H_{75}O_{10}P$) (labeled as "Ligand of Interest" by depositor).



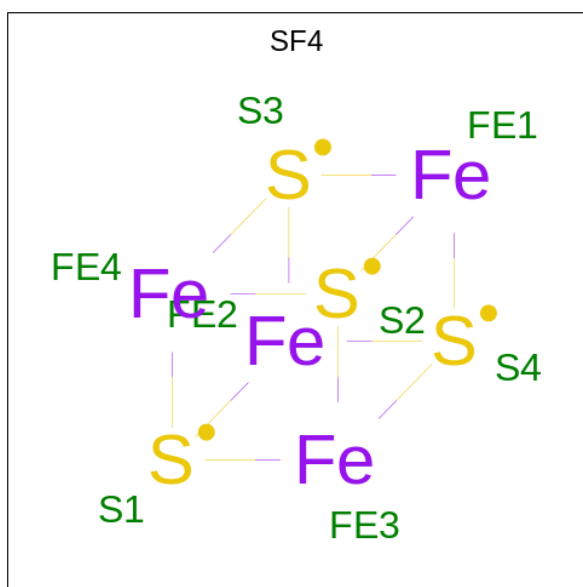
| Mol | Chain | Residues | Atoms | | | | AltConf |
|-----|-------|----------|-------|----|----|---|---------|
| | | | Total | C | O | P | |
| 31 | a | 1 | 48 | 37 | 10 | 1 | 0 |

- Molecule 32 is BETA-CAROTENE (three-letter code: BCR) (formula: $C_{40}H_{56}$) (labeled as "Ligand of Interest" by depositor).



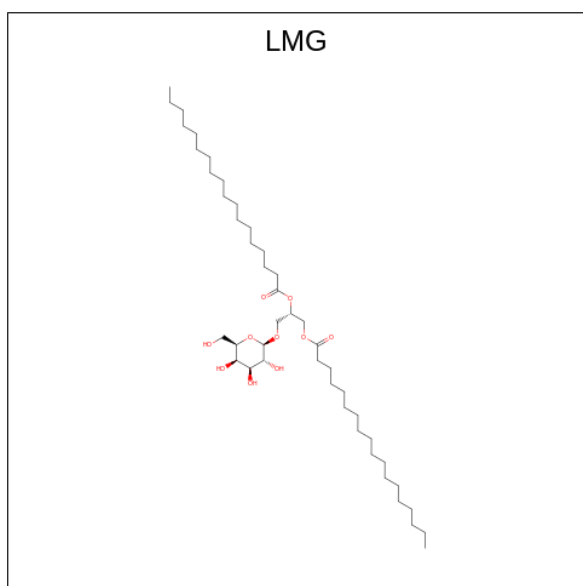
| Mol | Chain | Residues | Atoms | AltConf |
|-----|-------|----------|------------------|---------|
| 32 | a | 1 | Total C 40 40 | 0 |
| 32 | a | 1 | Total C 40 40 | 0 |
| 32 | a | 1 | Total C 40 40 | 0 |
| 32 | b | 1 | Total C 40 40 | 0 |
| 32 | b | 1 | Total C 40 40 | 0 |
| 32 | b | 1 | Total C 40 40 | 0 |
| 32 | f | 1 | Total C 40 40 | 0 |
| 32 | f | 1 | Total C 40 40 | 0 |
| 32 | i | 1 | Total C 40 40 | 0 |
| 32 | l | 1 | Total C 40 40 | 0 |
| 32 | l | 1 | Total C 40 40 | 0 |
| 32 | m | 1 | Total C 40 40 | 0 |

- Molecule 33 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe₄S₄).



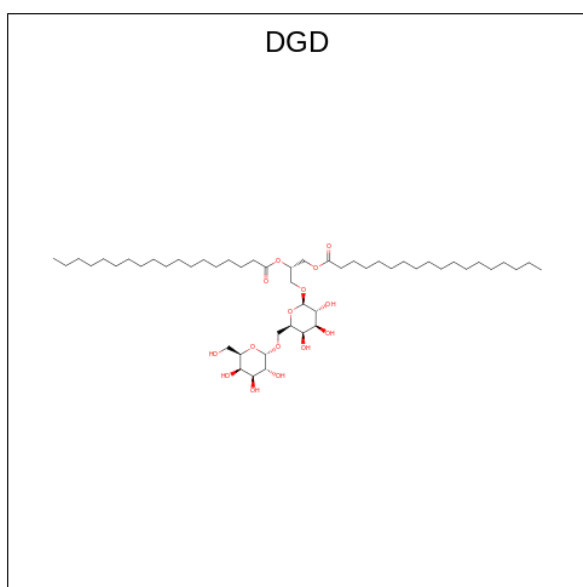
| Mol | Chain | Residues | Atoms | | | AltConf |
|-----|-------|----------|-------|----|---|---------|
| 33 | a | 1 | Total | Fe | S | 0 |
| | | | 8 | 4 | 4 | |
| 33 | c | 1 | Total | Fe | S | 0 |
| | | | 8 | 4 | 4 | |
| 33 | c | 1 | Total | Fe | S | 0 |
| | | | 8 | 4 | 4 | |

- Molecule 34 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (three-letter code: LMG) (formula: $C_{45}H_{86}O_{10}$) (labeled as "Ligand of Interest" by depositor).



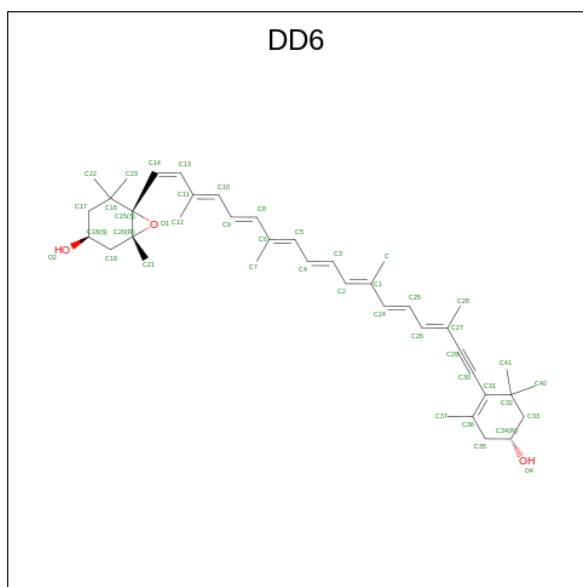
| Mol | Chain | Residues | Atoms | | | AltConf |
|-----|-------|----------|-------|----|----|---------|
| 34 | b | 1 | Total | C | O | 0 |
| | | | 46 | 36 | 10 | |
| 34 | b | 1 | Total | C | O | 0 |
| | | | 44 | 34 | 10 | |
| 34 | b | 1 | Total | C | O | 0 |
| | | | 40 | 30 | 10 | |
| 34 | h | 1 | Total | C | O | 0 |
| | | | 28 | 18 | 10 | |
| 34 | j | 1 | Total | C | O | 0 |
| | | | 43 | 33 | 10 | |
| 34 | A | 1 | Total | C | O | 0 |
| | | | 37 | 27 | 10 | |
| 34 | K | 1 | Total | C | O | 0 |
| | | | 43 | 33 | 10 | |
| 34 | K | 1 | Total | C | O | 0 |
| | | | 35 | 25 | 10 | |
| 34 | K | 1 | Total | C | O | 0 |
| | | | 36 | 26 | 10 | |
| 34 | P | 1 | Total | C | O | 0 |
| | | | 27 | 17 | 10 | |
| 34 | E | 1 | Total | C | O | 0 |
| | | | 32 | 22 | 10 | |

- Molecule 35 is DIGALACTOSYL DIACYL GLYCEROL (DGDG) (three-letter code: DGD) (formula: $C_{51}H_{96}O_{15}$) (labeled as "Ligand of Interest" by depositor).



| Mol | Chain | Residues | Atoms | | | AltConf |
|-----|-------|----------|-------|----|----|---------|
| 35 | b | 1 | Total | C | O | 0 |
| | | | 57 | 42 | 15 | |
| 35 | h | 1 | Total | C | O | 0 |
| | | | 54 | 39 | 15 | |
| 35 | j | 1 | Total | C | O | 0 |
| | | | 43 | 28 | 15 | |
| 35 | j | 1 | Total | C | O | 0 |
| | | | 41 | 26 | 15 | |
| 35 | j | 1 | Total | C | O | 0 |
| | | | 49 | 34 | 15 | |
| 35 | m | 1 | Total | C | O | 0 |
| | | | 66 | 51 | 15 | |
| 35 | G | 1 | Total | C | O | 0 |
| | | | 45 | 30 | 15 | |
| 35 | B | 1 | Total | C | O | 0 |
| | | | 45 | 30 | 15 | |

- Molecule 36 is (3S,3'R,5R,6S,7cis)-7',8'-didehydro-5,6-dihydro-5,6-epoxy-beta,beta-carotene -3,3'-diol (three-letter code: DD6) (formula: C₄₀H₅₄O₃) (labeled as "Ligand of Interest" by depositor).



| Mol | Chain | Residues | Atoms | | | AltConf |
|-----|-------|----------|-------|----|---|---------|
| 36 | h | 1 | Total | C | O | 0 |
| | | | 43 | 40 | 3 | |
| 36 | m | 1 | Total | C | O | 0 |
| | | | 43 | 40 | 3 | |
| 36 | A | 1 | Total | C | O | 0 |
| | | | 43 | 40 | 3 | |

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| Mol | Chain | Residues | Atoms | | | AltConf |
|-----|-------|----------|-------|----|---|---------|
| | | | Total | C | O | |
| 36 | A | 1 | 43 | 40 | 3 | 0 |
| 36 | A | 1 | 43 | 40 | 3 | 0 |
| 36 | G | 1 | 43 | 40 | 3 | 0 |
| 36 | G | 1 | 43 | 40 | 3 | 0 |
| 36 | G | 1 | 43 | 40 | 3 | 0 |
| 36 | G | 1 | 43 | 40 | 3 | 0 |
| 36 | I | 1 | 43 | 40 | 3 | 0 |
| 36 | I | 1 | 43 | 40 | 3 | 0 |
| 36 | I | 1 | 43 | 40 | 3 | 0 |
| 36 | I | 1 | 43 | 40 | 3 | 0 |
| 36 | I | 1 | 43 | 40 | 3 | 0 |
| 36 | K | 1 | 43 | 40 | 3 | 0 |
| 36 | K | 1 | 43 | 40 | 3 | 0 |
| 36 | K | 1 | 43 | 40 | 3 | 0 |
| 36 | K | 1 | 43 | 40 | 3 | 0 |
| 36 | K | 1 | 43 | 40 | 3 | 0 |
| 36 | K | 1 | 43 | 40 | 3 | 0 |
| 36 | F | 1 | 43 | 40 | 3 | 0 |
| 36 | F | 1 | 43 | 40 | 3 | 0 |
| 36 | J | 1 | 43 | 40 | 3 | 0 |
| 36 | J | 1 | 43 | 40 | 3 | 0 |

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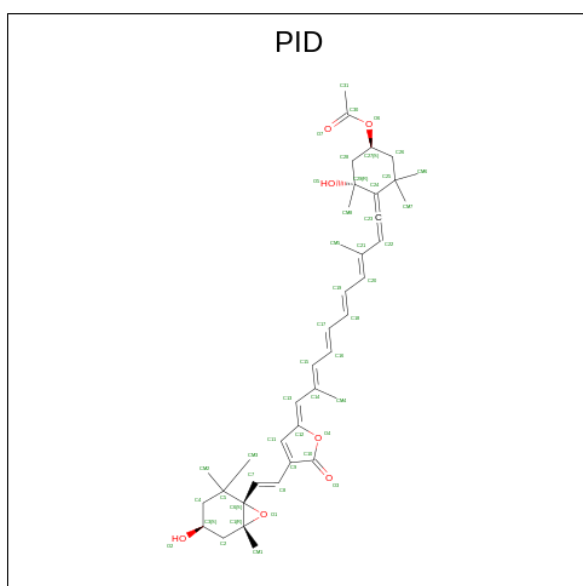
| Mol | Chain | Residues | Atoms | | | AltConf |
|-----|-------|----------|-------|----|---|---------|
| | | | Total | C | O | |
| 36 | J | 1 | 43 | 40 | 3 | 0 |
| 36 | M | 1 | 43 | 40 | 3 | 0 |
| 36 | M | 1 | 43 | 40 | 3 | 0 |
| 36 | M | 1 | 43 | 40 | 3 | 0 |
| 36 | M | 1 | 43 | 40 | 3 | 0 |
| 36 | L | 1 | 43 | 40 | 3 | 0 |
| 36 | L | 1 | 43 | 40 | 3 | 0 |
| 36 | L | 1 | 43 | 40 | 3 | 0 |
| 36 | L | 1 | 43 | 40 | 3 | 0 |
| 36 | D | 1 | 43 | 40 | 3 | 0 |
| 36 | D | 1 | 43 | 40 | 3 | 0 |
| 36 | B | 1 | 42 | 39 | 3 | 0 |
| 36 | B | 1 | 43 | 40 | 3 | 0 |
| 36 | B | 1 | 43 | 40 | 3 | 0 |
| 36 | B | 1 | 43 | 40 | 3 | 0 |
| 36 | B | 1 | 43 | 40 | 3 | 0 |
| 36 | H | 1 | 43 | 40 | 3 | 0 |
| 36 | N | 1 | 43 | 40 | 3 | 0 |
| 36 | O | 1 | 43 | 40 | 3 | 0 |
| 36 | T | 1 | 43 | 40 | 3 | 0 |
| 36 | Q | 1 | 43 | 40 | 3 | 0 |

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| Mol | Chain | Residues | Atoms | | | AltConf |
|-----|-------|----------|-------|----|---|---------|
| 36 | C | 1 | Total | C | O | 0 |
| | | | 43 | 40 | 3 | |
| 36 | P | 1 | Total | C | O | 0 |
| | | | 43 | 40 | 3 | |
| 36 | E | 1 | Total | C | O | 0 |
| | | | 43 | 40 | 3 | |
| 36 | E | 1 | Total | C | O | 0 |
| | | | 43 | 40 | 3 | |

- Molecule 37 is PERIDININ (three-letter code: PID) (formula: C₃₉H₅₀O₇) (labeled as "Ligand of Interest" by depositor).



| Mol | Chain | Residues | Atoms | | | AltConf |
|-----|-------|----------|-------|----|---|---------|
| 37 | h | 1 | Total | C | O | 0 |
| | | | 46 | 39 | 7 | |
| 37 | j | 1 | Total | C | O | 0 |
| | | | 46 | 39 | 7 | |
| 37 | G | 1 | Total | C | O | 0 |
| | | | 46 | 39 | 7 | |
| 37 | G | 1 | Total | C | O | 0 |
| | | | 46 | 39 | 7 | |
| 37 | G | 1 | Total | C | O | 0 |
| | | | 46 | 39 | 7 | |
| 37 | F | 1 | Total | C | O | 0 |
| | | | 46 | 39 | 7 | |
| 37 | F | 1 | Total | C | O | 0 |
| | | | 46 | 39 | 7 | |

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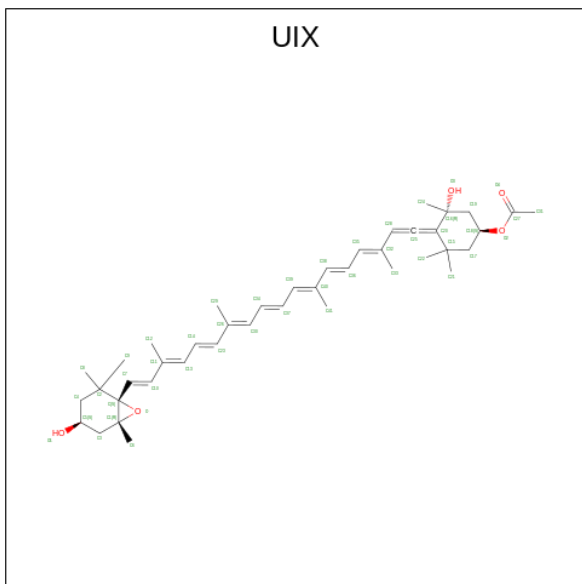
| Mol | Chain | Residues | Atoms | | | AltConf |
|-----|-------|----------|-------|----|---|---------|
| | | | Total | C | O | |
| 37 | F | 1 | 46 | 39 | 7 | 0 |
| 37 | D | 1 | 46 | 39 | 7 | 0 |
| 37 | D | 1 | 46 | 39 | 7 | 0 |
| 37 | D | 1 | 46 | 39 | 7 | 0 |
| 37 | D | 1 | 46 | 39 | 7 | 0 |
| 37 | D | 1 | 46 | 39 | 7 | 0 |
| 37 | H | 1 | 46 | 39 | 7 | 0 |
| 37 | H | 1 | 46 | 39 | 7 | 0 |
| 37 | H | 1 | 46 | 39 | 7 | 0 |
| 37 | H | 1 | 46 | 39 | 7 | 0 |
| 37 | H | 1 | 46 | 39 | 7 | 0 |
| 37 | H | 1 | 46 | 39 | 7 | 0 |
| 37 | N | 1 | 46 | 39 | 7 | 0 |
| 37 | N | 1 | 46 | 39 | 7 | 0 |
| 37 | N | 1 | 46 | 39 | 7 | 0 |
| 37 | N | 1 | 46 | 39 | 7 | 0 |
| 37 | N | 1 | 46 | 39 | 7 | 0 |
| 37 | N | 1 | 46 | 39 | 7 | 0 |
| 37 | O | 1 | 46 | 39 | 7 | 0 |
| 37 | O | 1 | 46 | 39 | 7 | 0 |
| 37 | O | 1 | 46 | 39 | 7 | 0 |
| 37 | O | 1 | 46 | 39 | 7 | 0 |
| 37 | O | 1 | 46 | 39 | 7 | 0 |

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| Mol | Chain | Residues | Atoms | | | AltConf |
|-----|-------|----------|-------|----|---|---------|
| | | | Total | C | O | |
| 37 | T | 1 | 46 | 39 | 7 | 0 |
| 37 | T | 1 | 46 | 39 | 7 | 0 |
| 37 | T | 1 | 46 | 39 | 7 | 0 |
| 37 | T | 1 | 46 | 39 | 7 | 0 |
| 37 | T | 1 | 46 | 39 | 7 | 0 |
| 37 | T | 1 | 46 | 39 | 7 | 0 |
| 37 | T | 1 | 46 | 39 | 7 | 0 |
| 37 | Q | 1 | 46 | 39 | 7 | 0 |
| 37 | Q | 1 | 46 | 39 | 7 | 0 |
| 37 | Q | 1 | 46 | 39 | 7 | 0 |
| 37 | Q | 1 | 46 | 39 | 7 | 0 |
| 37 | C | 1 | 46 | 39 | 7 | 0 |
| 37 | C | 1 | 46 | 39 | 7 | 0 |
| 37 | C | 1 | 46 | 39 | 7 | 0 |
| 37 | C | 1 | 46 | 39 | 7 | 0 |
| 37 | C | 1 | 46 | 39 | 7 | 0 |
| 37 | P | 1 | 46 | 39 | 7 | 0 |
| 37 | P | 1 | 46 | 39 | 7 | 0 |
| 37 | P | 1 | 46 | 39 | 7 | 0 |
| 37 | P | 1 | 46 | 39 | 7 | 0 |
| 37 | P | 1 | 46 | 39 | 7 | 0 |
| 37 | E | 1 | 46 | 39 | 7 | 0 |

- Molecule 38 is [(1 {S},5 {R})-3,3,5-trimethyl-5-oxidanyl-4-[(3 {E},5 {E},7 {E},9 {E},11 {E},13 {E},15 {E},17 {E})-3,7,12,16-tetramethyl-18-[(1 {S},4 {S},6 {R})-2,2,6-trimethyl-4-oxidanyl-7-oxabicyclo[4.1.0]heptan-1-yl]octadeca-1,3,5,7,9,11,13,15,17-nonaenylidene]cyclohexyl] ethanoate (three-letter code: UIX) (formula: C₄₂H₅₈O₅) (labeled as "Ligand of Interest" by depositor).



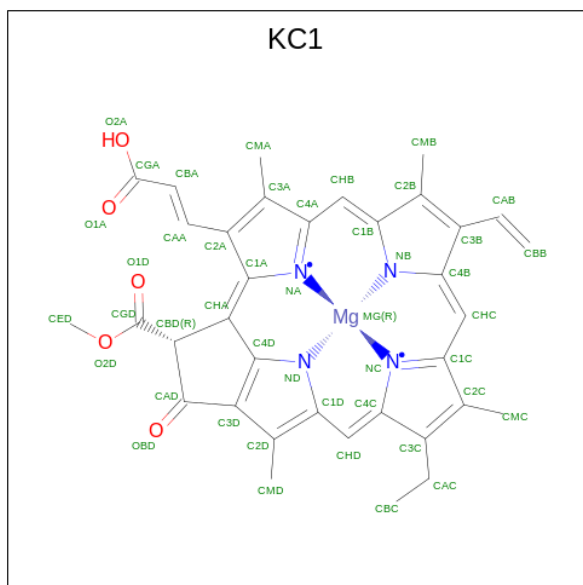
| Mol | Chain | Residues | Atoms | | | AltConf |
|-----|-------|----------|-------|----|---|---------|
| 38 | A | 1 | Total | C | O | 0 |
| | | | 47 | 42 | 5 | |
| 38 | F | 1 | Total | C | O | 0 |
| | | | 47 | 42 | 5 | |
| 38 | J | 1 | Total | C | O | 0 |
| | | | 47 | 42 | 5 | |
| 38 | L | 1 | Total | C | O | 0 |
| | | | 47 | 42 | 5 | |
| 38 | B | 1 | Total | C | O | 0 |
| | | | 47 | 42 | 5 | |
| 38 | N | 1 | Total | C | O | 0 |
| | | | 47 | 42 | 5 | |
| 38 | O | 1 | Total | C | O | 0 |
| | | | 47 | 42 | 5 | |
| 38 | T | 1 | Total | C | O | 0 |
| | | | 47 | 42 | 5 | |
| 38 | Q | 1 | Total | C | O | 0 |
| | | | 47 | 42 | 5 | |
| 38 | C | 1 | Total | C | O | 0 |
| | | | 47 | 42 | 5 | |
| 38 | P | 1 | Total | C | O | 0 |
| | | | 47 | 42 | 5 | |

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| Mol | Chain | Residues | Atoms | | | AltConf |
|-----|-------|----------|-------|----|---|---------|
| | | | Total | C | O | |
| 38 | E | 1 | 47 | 42 | 5 | 0 |

- Molecule 39 is Chlorophyll c1 (three-letter code: KC1) (formula: $C_{35}H_{30}MgN_4O_5$) (labeled as "Ligand of Interest" by depositor).



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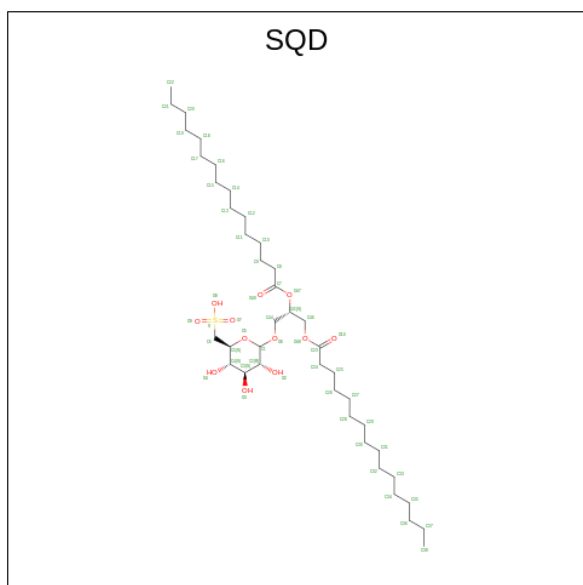
| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|
| | | | Total | C | Mg | N | O | |
| 39 | M | 1 | 45 | 35 | 1 | 4 | 5 | 0 |
| 39 | L | 1 | 45 | 35 | 1 | 4 | 5 | 0 |
| 39 | L | 1 | 45 | 35 | 1 | 4 | 5 | 0 |
| 39 | D | 1 | 45 | 35 | 1 | 4 | 5 | 0 |
| 39 | D | 1 | 45 | 35 | 1 | 4 | 5 | 0 |
| 39 | B | 1 | 45 | 35 | 1 | 4 | 5 | 0 |
| 39 | H | 1 | 45 | 35 | 1 | 4 | 5 | 0 |
| 39 | H | 1 | 45 | 35 | 1 | 4 | 5 | 0 |
| 39 | H | 1 | 45 | 35 | 1 | 4 | 5 | 0 |
| 39 | N | 1 | 45 | 35 | 1 | 4 | 5 | 0 |
| 39 | N | 1 | 45 | 35 | 1 | 4 | 5 | 0 |
| 39 | N | 1 | 45 | 35 | 1 | 4 | 5 | 0 |
| 39 | O | 1 | 45 | 35 | 1 | 4 | 5 | 0 |
| 39 | O | 1 | 45 | 35 | 1 | 4 | 5 | 0 |
| 39 | O | 1 | 45 | 35 | 1 | 4 | 5 | 0 |
| 39 | T | 1 | 45 | 35 | 1 | 4 | 5 | 0 |
| 39 | T | 1 | 45 | 35 | 1 | 4 | 5 | 0 |
| 39 | T | 1 | 45 | 35 | 1 | 4 | 5 | 0 |
| 39 | Q | 1 | 45 | 35 | 1 | 4 | 5 | 0 |
| 39 | Q | 1 | 45 | 35 | 1 | 4 | 5 | 0 |
| 39 | Q | 1 | 45 | 35 | 1 | 4 | 5 | 0 |

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| Mol | Chain | Residues | Atoms | | | | AltConf | |
|-----|-------|----------|-------|----|----|---|---------|---|
| 39 | C | 1 | Total | C | Mg | N | O | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | |
| 39 | C | 1 | Total | C | Mg | N | O | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | |
| 39 | C | 1 | Total | C | Mg | N | O | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | |
| 39 | P | 1 | Total | C | Mg | N | O | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | |
| 39 | P | 1 | Total | C | Mg | N | O | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | |
| 39 | P | 1 | Total | C | Mg | N | O | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | |
| 39 | E | 1 | Total | C | Mg | N | O | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | |
| 39 | E | 1 | Total | C | Mg | N | O | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | |

- Molecule 40 is 1,2-DI-O-ACYL-3-O-[6-DEOXY-6-SULFO-ALPHA-D-GLUCOPYRANOSYL]-SN-GLYCEROL (three-letter code: SQD) (formula: C₄₁H₇₈O₁₂S) (labeled as "Ligand of Interest" by depositor).

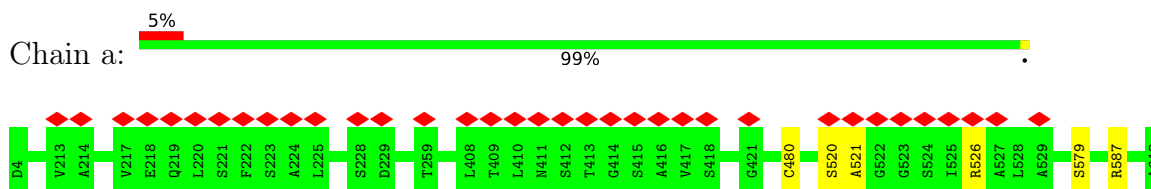


| Mol | Chain | Residues | Atoms | | | AltConf | |
|-----|-------|----------|-------|----|----|---------|---|
| 40 | J | 1 | Total | C | O | S | 0 |
| | | | 45 | 32 | 12 | 1 | |
| 40 | B | 1 | Total | C | O | S | 0 |
| | | | 42 | 29 | 12 | 1 | |

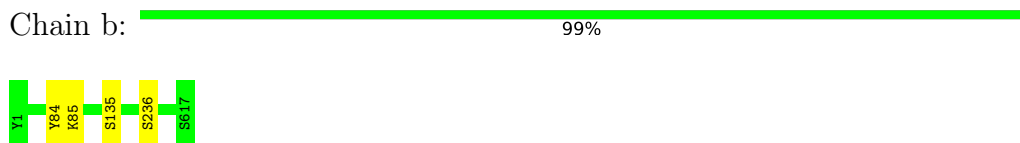
3 Residue-property plots [i](#)

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: Photosystem I PsaA



- Molecule 2: Photosystem I PsaB

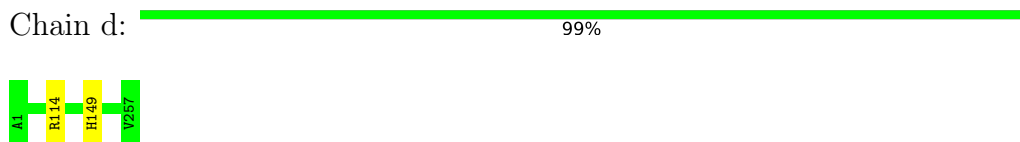


- Molecule 3: Photosystem I PsaC

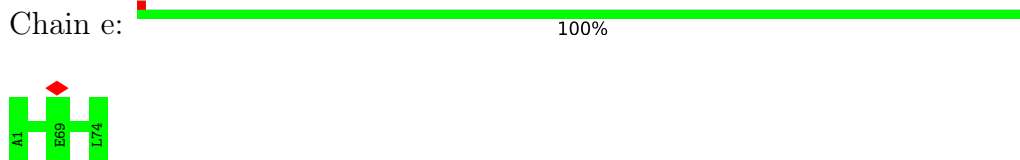


There are no outlier residues recorded for this chain.

- Molecule 4: Photosystem I PsaD



- Molecule 5: Photosystem I PsaE



- Molecule 6: Photosystem I PsaF

Chain f:  100%

There are no outlier residues recorded for this chain.

- Molecule 7: Photosystem I PsaR

Chain h:  95% 5%



- Molecule 8: Photosystem I PsaI

Chain i:  98%



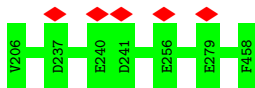
- Molecule 9: Photosystem I PsaJ

Chain j:  97%



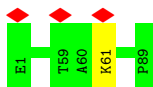
- Molecule 10: Photosystem I PsaL

Chain l:  100%



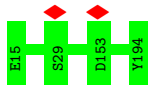
- Molecule 11: Photosystem I PsaM

Chain m:  99%



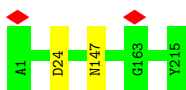
- Molecule 12: Chlorophyll a-chlorophyll c-peridinin-protein-complex I-10, acpPCI-10

Chain A:  100%



- Molecule 13: Chlorophyll a-chlorophyll c-peridinin-protein-complex I-8, acpPCI-8

Chain G:  99%



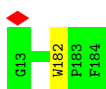
- Molecule 14: Chlorophyll a-chlorophyll c-peridinin-protein-complex I-7, acpPCI-7

Chain I:  95%



- Molecule 15: Chlorophyll a-chlorophyll c-peridinin-protein-complex I-6, acpPCI-6

Chain K:  99%



- Molecule 16: Chlorophyll a-chlorophyll c-peridinin-protein-complex I-2, acpPCI-2

Chain F:  99%



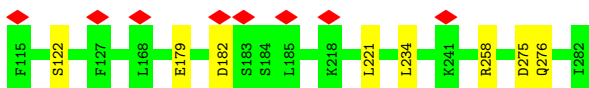
- Molecule 17: Chlorophyll a-chlorophyll c-peridinin-protein-complex I-3, acpPCI-3

Chain J:  99%

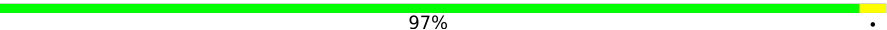


- Molecule 18: Chlorophyll a-chlorophyll c-peridinin-protein-complex I-4, acpPCI-4

Chain M:  95%

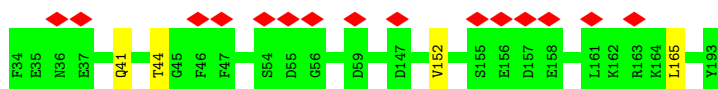


- Molecule 19: Chlorophyll a-chlorophyll c-peridinin-protein-complex I-5, acpPCI-5

Chain L:  97%



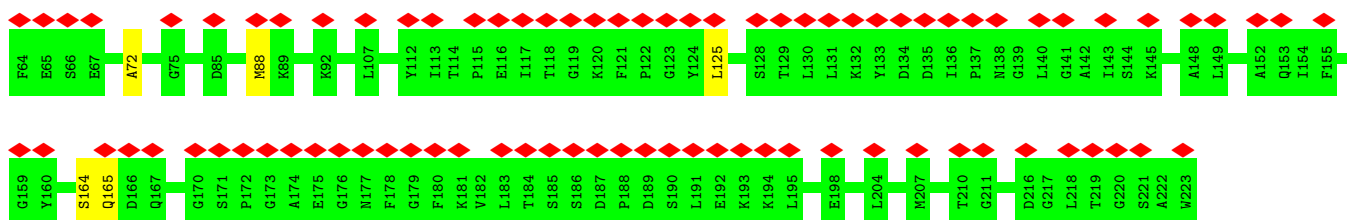
- Molecule 20: Chlorophyll a-chlorophyll c-peridinin-protein-complex I-9, acpPCI-9



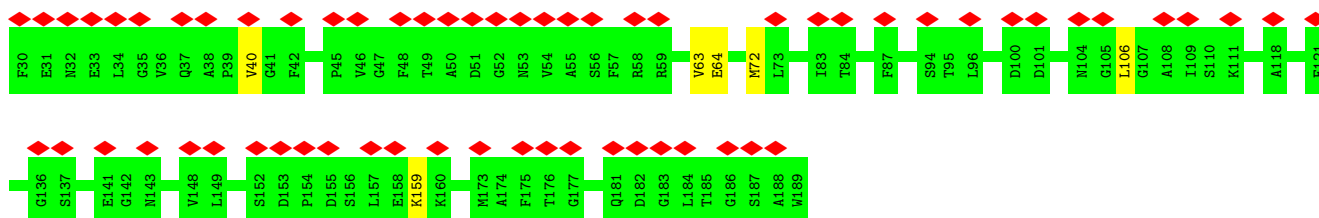
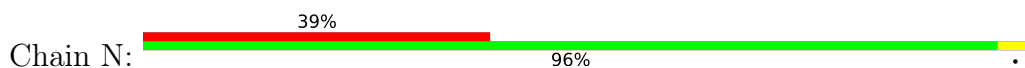
- Molecule 21: Chlorophyll a-chlorophyll c-peridinin-protein-complex I-11, acpPCI-11



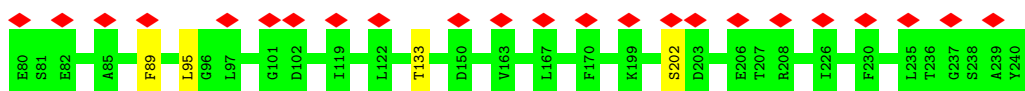
- Molecule 22: Chlorophyll a-chlorophyll c-peridinin-protein-complex I-12, acpPCI-12



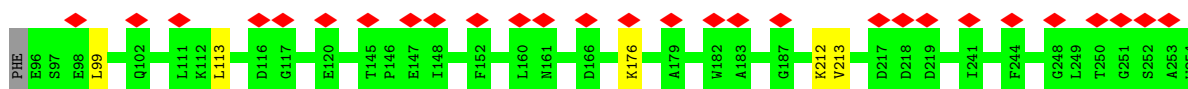
- Molecule 23: Chlorophyll a-chlorophyll c-peridinin-protein-complex I-13, acpPCI-13



- Molecule 24: Chlorophyll a-chlorophyll c-peridinin-protein-complex I-15, acpPCI-15

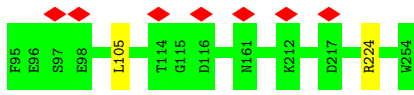


- Molecule 25: Chlorophyll a-chlorophyll c-peridinin-protein-complex I-16, acpPCI-16



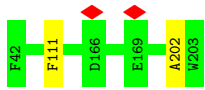
- Molecule 25: Chlorophyll a-chlorophyll c-peridinin-protein-complex I-16, acpPCI-16

Chain C:  99%

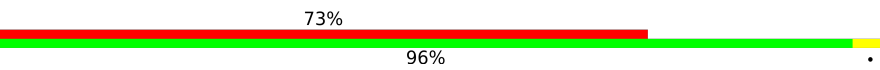


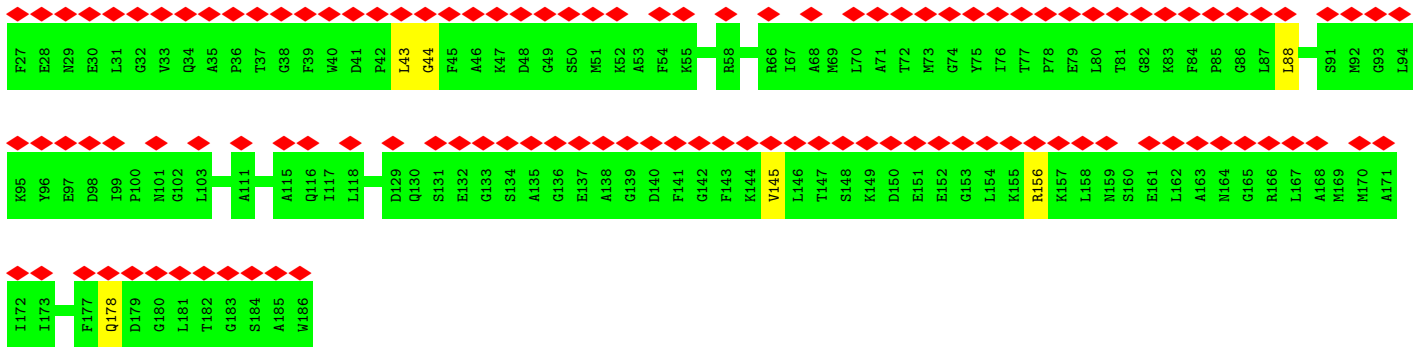
- Molecule 26: Chlorophyll a-chlorophyll c-peridinin-protein-complex I-17, acpPCI-17

Chain Q:  99%



- Molecule 27: Chlorophyll a-chlorophyll c-peridinin-protein-complex I-14, acpPCI-14

Chain P:  96%



- Molecule 28: Chlorophyll a-chlorophyll c-peridinin-protein-complex I-1, acpPCI-1

Chain E:  97%



4 Experimental information

| Property | Value | Source |
|--------------------------------------|---|-----------|
| EM reconstruction method | SINGLE PARTICLE | Depositor |
| Imposed symmetry | POINT, Not provided | |
| Number of particles used | 356838 | Depositor |
| Resolution determination method | FSC 0.143 CUT-OFF | Depositor |
| CTF correction method | PHASE FLIPPING AND AMPLITUDE CORRECTION | Depositor |
| Microscope | FEI TITAN KRIOS | Depositor |
| Voltage (kV) | 300 | Depositor |
| Electron dose ($e^-/\text{\AA}^2$) | 50 | Depositor |
| Minimum defocus (nm) | 1500 | Depositor |
| Maximum defocus (nm) | 2200 | Depositor |
| Magnification | Not provided | |
| Image detector | GATAN K2 BASE (4k x 4k) | Depositor |
| Maximum map value | 1.883 | Depositor |
| Minimum map value | -0.563 | Depositor |
| Average map value | -0.000 | Depositor |
| Map value standard deviation | 0.021 | Depositor |
| Recommended contour level | 0.22 | Depositor |
| Map size (\AA) | 665.6, 665.6, 665.6 | wwPDB |
| Map dimensions | 512, 512, 512 | wwPDB |
| Map angles ($^\circ$) | 90.0, 90.0, 90.0 | wwPDB |
| Pixel spacing (\AA) | 1.3, 1.3, 1.3 | Depositor |

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: BCR, SQD, KC1, UIX, LMG, DD6, PID, DGD, PQN, LHG, SF4, CLA

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 | 0.33 | 0/5133 | 0.46 | 0/7019 |
| 2 | b | 0.35 | 0/4968 | 0.46 | 0/6804 |
| 3 | c | 0.31 | 0/657 | 0.50 | 0/897 |
| 4 | d | 0.30 | 0/2034 | 0.50 | 0/2766 |
| 5 | e | 0.30 | 0/624 | 0.43 | 0/851 |
| 6 | f | 0.28 | 0/1484 | 0.48 | 0/1998 |
| 7 | h | 0.31 | 0/1089 | 0.46 | 0/1479 |
| 8 | i | 0.30 | 0/1030 | 0.44 | 0/1394 |
| 9 | j | 0.36 | 0/566 | 0.52 | 0/774 |
| 10 | l | 0.28 | 0/2014 | 0.46 | 0/2737 |
| 11 | m | 0.30 | 0/694 | 0.48 | 0/939 |
| 12 | A | 0.28 | 0/1395 | 0.45 | 0/1892 |
| 13 | G | 0.30 | 0/1730 | 0.43 | 0/2348 |
| 14 | I | 0.31 | 0/1499 | 0.47 | 0/2037 |
| 15 | K | 0.29 | 0/1358 | 0.48 | 0/1838 |
| 16 | F | 0.29 | 0/1395 | 0.50 | 0/1886 |
| 17 | J | 0.27 | 0/1317 | 0.46 | 0/1795 |
| 18 | M | 0.27 | 0/1395 | 0.49 | 0/1888 |
| 19 | L | 0.28 | 0/1490 | 0.52 | 0/2021 |
| 20 | D | 0.27 | 0/1223 | 0.51 | 0/1650 |
| 21 | B | 0.30 | 0/1404 | 0.49 | 0/1891 |
| 22 | H | 0.28 | 0/1232 | 0.49 | 0/1665 |
| 23 | N | 0.27 | 0/1233 | 0.50 | 0/1671 |
| 24 | O | 0.28 | 0/1260 | 0.50 | 0/1709 |
| 25 | C | 0.26 | 0/1226 | 0.50 | 0/1653 |
| 25 | T | 0.27 | 0/1214 | 0.50 | 0/1637 |
| 26 | Q | 0.28 | 0/1251 | 0.50 | 0/1690 |
| 27 | P | 0.28 | 0/1245 | 0.49 | 0/1673 |
| 28 | E | 0.28 | 0/1093 | 0.52 | 0/1473 |
| All | All | 0.30 | 0/44253 | 0.48 | 0/60075 |

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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 | 643/645 (100%) | 594 (92%) | 47 (7%) | 2 (0%) | 41 | 71 |
| 2 | b | 615/617 (100%) | 581 (94%) | 34 (6%) | 0 | 100 | 100 |
| 3 | c | 84/86 (98%) | 81 (96%) | 3 (4%) | 0 | 100 | 100 |
| 4 | d | 255/257 (99%) | 239 (94%) | 15 (6%) | 1 (0%) | 34 | 66 |
| 5 | e | 72/74 (97%) | 68 (94%) | 4 (6%) | 0 | 100 | 100 |
| 6 | f | 183/185 (99%) | 177 (97%) | 6 (3%) | 0 | 100 | 100 |
| 7 | h | 130/132 (98%) | 121 (93%) | 6 (5%) | 3 (2%) | 6 | 23 |
| 8 | i | 124/126 (98%) | 116 (94%) | 8 (6%) | 0 | 100 | 100 |
| 9 | j | 68/70 (97%) | 60 (88%) | 8 (12%) | 0 | 100 | 100 |
| 10 | l | 251/253 (99%) | 231 (92%) | 20 (8%) | 0 | 100 | 100 |
| 11 | m | 87/89 (98%) | 79 (91%) | 8 (9%) | 0 | 100 | 100 |
| 12 | A | 178/180 (99%) | 163 (92%) | 15 (8%) | 0 | 100 | 100 |
| 13 | G | 213/215 (99%) | 189 (89%) | 23 (11%) | 1 (0%) | 29 | 61 |
| 14 | I | 192/194 (99%) | 165 (86%) | 21 (11%) | 6 (3%) | 4 | 16 |
| 15 | K | 170/172 (99%) | 153 (90%) | 16 (9%) | 1 (1%) | 25 | 58 |
| 16 | F | 174/176 (99%) | 154 (88%) | 19 (11%) | 1 (1%) | 25 | 58 |

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| Mol | Chain | Analysed | Favoured | Allowed | Outliers | Percentiles | |
|-----|-------|-----------------|------------|----------|----------|-------------|-----|
| 17 | J | 163/165 (99%) | 144 (88%) | 18 (11%) | 1 (1%) | 25 | 58 |
| 18 | M | 166/168 (99%) | 134 (81%) | 26 (16%) | 6 (4%) | 3 | 14 |
| 19 | L | 183/185 (99%) | 152 (83%) | 26 (14%) | 5 (3%) | 5 | 19 |
| 20 | D | 158/160 (99%) | 142 (90%) | 15 (10%) | 1 (1%) | 25 | 58 |
| 21 | B | 170/172 (99%) | 153 (90%) | 17 (10%) | 0 | 100 | 100 |
| 22 | H | 158/160 (99%) | 135 (85%) | 19 (12%) | 4 (2%) | 5 | 21 |
| 23 | N | 158/160 (99%) | 126 (80%) | 31 (20%) | 1 (1%) | 25 | 58 |
| 24 | O | 159/161 (99%) | 144 (91%) | 12 (8%) | 3 (2%) | 8 | 28 |
| 25 | C | 158/160 (99%) | 146 (92%) | 11 (7%) | 1 (1%) | 25 | 58 |
| 25 | T | 157/160 (98%) | 142 (90%) | 11 (7%) | 4 (2%) | 5 | 21 |
| 26 | Q | 160/162 (99%) | 138 (86%) | 20 (12%) | 2 (1%) | 12 | 37 |
| 27 | P | 158/160 (99%) | 139 (88%) | 16 (10%) | 3 (2%) | 8 | 28 |
| 28 | E | 140/142 (99%) | 120 (86%) | 17 (12%) | 3 (2%) | 7 | 26 |
| All | All | 5527/5586 (99%) | 4986 (90%) | 492 (9%) | 49 (1%) | 21 | 48 |

All (49) Ramachandran outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 1 | a | 520 | SER |
| 4 | d | 149 | HIS |
| 14 | I | 116 | SER |
| 14 | I | 135 | LYS |
| 14 | I | 186 | VAL |
| 15 | K | 182 | TRP |
| 18 | M | 179 | GLU |
| 18 | M | 182 | ASP |
| 19 | L | 195 | ASN |
| 20 | D | 152 | VAL |
| 22 | H | 72 | ALA |
| 23 | N | 106 | LEU |
| 24 | O | 95 | LEU |
| 25 | T | 213 | VAL |
| 26 | Q | 202 | ALA |
| 27 | P | 88 | LEU |
| 27 | P | 145 | VAL |
| 28 | E | 101 | ALA |
| 28 | E | 116 | GLU |

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| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 28 | E | 186 | GLU |
| 1 | a | 521 | ALA |
| 7 | h | 42 | PRO |
| 14 | I | 64 | ILE |
| 14 | I | 65 | GLY |
| 18 | M | 122 | SER |
| 19 | L | 235 | ARG |
| 19 | L | 265 | ALA |
| 22 | H | 88 | MET |
| 22 | H | 125 | LEU |
| 26 | Q | 111 | PHE |
| 18 | M | 276 | GLN |
| 25 | T | 99 | LEU |
| 25 | T | 212 | LYS |
| 25 | C | 105 | LEU |
| 27 | P | 44 | GLY |
| 13 | G | 147 | ASN |
| 16 | F | 157 | GLU |
| 19 | L | 117 | PHE |
| 7 | h | 38 | ARG |
| 19 | L | 118 | ALA |
| 22 | H | 164 | SER |
| 24 | O | 202 | SER |
| 25 | T | 113 | LEU |
| 7 | h | 41 | ASN |
| 18 | M | 221 | LEU |
| 18 | M | 275 | ASP |
| 24 | O | 89 | PHE |
| 14 | I | 68 | PRO |
| 17 | J | 103 | PRO |

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 | 531/535 (99%) | 527 (99%) | 4 (1%) | 81 94 |

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| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles | |
|-----|-------|-----------------|------------|----------|-------------|-----|
| 2 | b | 502/504 (100%) | 498 (99%) | 4 (1%) | 81 | 94 |
| 3 | c | 73/74 (99%) | 73 (100%) | 0 | 100 | 100 |
| 4 | d | 213/222 (96%) | 212 (100%) | 1 (0%) | 88 | 96 |
| 5 | e | 65/66 (98%) | 65 (100%) | 0 | 100 | 100 |
| 6 | f | 151/151 (100%) | 151 (100%) | 0 | 100 | 100 |
| 7 | h | 109/109 (100%) | 106 (97%) | 3 (3%) | 43 | 76 |
| 8 | i | 106/106 (100%) | 103 (97%) | 3 (3%) | 43 | 76 |
| 9 | j | 60/60 (100%) | 58 (97%) | 2 (3%) | 38 | 72 |
| 10 | l | 200/203 (98%) | 200 (100%) | 0 | 100 | 100 |
| 11 | m | 72/72 (100%) | 71 (99%) | 1 (1%) | 67 | 89 |
| 12 | A | 136/141 (96%) | 136 (100%) | 0 | 100 | 100 |
| 13 | G | 171/171 (100%) | 170 (99%) | 1 (1%) | 86 | 96 |
| 14 | I | 141/156 (90%) | 138 (98%) | 3 (2%) | 53 | 81 |
| 15 | K | 133/138 (96%) | 133 (100%) | 0 | 100 | 100 |
| 16 | F | 140/140 (100%) | 139 (99%) | 1 (1%) | 84 | 95 |
| 17 | J | 136/136 (100%) | 135 (99%) | 1 (1%) | 84 | 95 |
| 18 | M | 128/128 (100%) | 126 (98%) | 2 (2%) | 62 | 86 |
| 19 | L | 145/145 (100%) | 144 (99%) | 1 (1%) | 84 | 95 |
| 20 | D | 123/123 (100%) | 120 (98%) | 3 (2%) | 49 | 79 |
| 21 | B | 146/146 (100%) | 145 (99%) | 1 (1%) | 84 | 95 |
| 22 | H | 123/123 (100%) | 122 (99%) | 1 (1%) | 81 | 94 |
| 23 | N | 124/124 (100%) | 119 (96%) | 5 (4%) | 31 | 65 |
| 24 | O | 124/124 (100%) | 123 (99%) | 1 (1%) | 81 | 94 |
| 25 | C | 121/121 (100%) | 120 (99%) | 1 (1%) | 81 | 94 |
| 25 | T | 120/121 (99%) | 119 (99%) | 1 (1%) | 81 | 94 |
| 26 | Q | 120/120 (100%) | 120 (100%) | 0 | 100 | 100 |
| 27 | P | 123/123 (100%) | 120 (98%) | 3 (2%) | 49 | 79 |
| 28 | E | 108/108 (100%) | 107 (99%) | 1 (1%) | 78 | 93 |
| All | All | 4444/4490 (99%) | 4400 (99%) | 44 (1%) | 77 | 92 |

All (44) residues with a non-rotameric sidechain are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 1 | a | 480 | CYS |
| 1 | a | 526 | ARG |
| 1 | a | 579 | SER |
| 1 | a | 587 | ARG |
| 2 | b | 84 | TYR |
| 2 | b | 85 | LYS |
| 2 | b | 135 | SER |
| 2 | b | 236 | SER |
| 4 | d | 114 | ARG |
| 7 | h | 35 | ILE |
| 7 | h | 37 | ARG |
| 7 | h | 40 | PHE |
| 8 | i | 142 | LYS |
| 8 | i | 144 | LEU |
| 8 | i | 154 | LYS |
| 9 | j | 25 | ILE |
| 9 | j | 27 | THR |
| 11 | m | 61 | LYS |
| 13 | G | 24 | ASP |
| 14 | I | 67 | TYR |
| 14 | I | 71 | GLU |
| 14 | I | 72 | MET |
| 16 | F | 191 | ASN |
| 17 | J | 229 | SER |
| 18 | M | 234 | LEU |
| 18 | M | 258 | ARG |
| 19 | L | 179 | TYR |
| 20 | D | 41 | GLN |
| 20 | D | 44 | THR |
| 20 | D | 165 | LEU |
| 21 | B | 97 | VAL |
| 22 | H | 165 | GLN |
| 23 | N | 40 | VAL |
| 23 | N | 63 | VAL |
| 23 | N | 64 | GLU |
| 23 | N | 72 | MET |
| 23 | N | 159 | LYS |
| 24 | O | 133 | THR |
| 25 | T | 176 | LYS |
| 25 | C | 224 | ARG |
| 27 | P | 43 | LEU |
| 27 | P | 156 | ARG |
| 27 | P | 178 | GLN |

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| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 28 | E | 112 | LEU |

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 1 | a | 627 | HIS |
| 13 | G | 64 | ASN |
| 16 | F | 176 | ASN |
| 17 | J | 227 | ASN |
| 18 | M | 191 | HIS |
| 22 | H | 71 | GLN |
| 24 | O | 218 | 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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

411 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 | $\# Z > 2$ |
| 39 | KC1 | G | 315 | - | 48,53,53 | 1.54 | 7 (14%) | 55,89,89 | 1.90 | 11 (20%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 37 | PID | P | 208 | - | 41,49,49 | 1.37 | 4 (9%) | 49,76,76 | 2.42 | 7 (14%) |
| 32 | BCR | m | 103 | - | 41,41,41 | 0.82 | 1 (2%) | 56,56,56 | 2.35 | 18 (32%) |
| 36 | DD6 | B | 303 | - | 39,45,45 | 2.04 | 3 (7%) | 52,67,67 | 1.80 | 14 (26%) |
| 29 | CLA | b | 719 | - | 50,58,73 | 1.69 | 6 (12%) | 58,95,113 | 1.60 | 10 (17%) |
| 29 | CLA | A | 206 | 39 | 45,53,73 | 1.76 | 6 (13%) | 52,89,113 | 1.63 | 7 (13%) |
| 29 | CLA | a | 827 | - | 65,73,73 | 1.48 | 9 (13%) | 76,113,113 | 1.37 | 8 (10%) |
| 29 | CLA | a | 829 | - | 65,73,73 | 1.46 | 7 (10%) | 76,113,113 | 1.40 | 7 (9%) |
| 36 | DD6 | I | 206 | - | 39,45,45 | 2.03 | 3 (7%) | 52,67,67 | 1.90 | 12 (23%) |
| 29 | CLA | G | 316 | - | 65,73,73 | 1.50 | 8 (12%) | 76,113,113 | 4.94 | 11 (14%) |
| 29 | CLA | F | 308 | - | 46,54,73 | 1.74 | 7 (15%) | 53,90,113 | 1.52 | 6 (11%) |
| 29 | CLA | G | 302 | - | 65,73,73 | 1.47 | 6 (9%) | 76,113,113 | 1.40 | 7 (9%) |
| 32 | BCR | l | 506 | - | 41,41,41 | 0.75 | 0 | 56,56,56 | 1.93 | 14 (25%) |
| 29 | CLA | M | 314 | - | 52,60,73 | 1.65 | 5 (9%) | 60,97,113 | 1.49 | 7 (11%) |
| 32 | BCR | b | 735 | - | 41,41,41 | 0.77 | 0 | 56,56,56 | 2.04 | 17 (30%) |
| 39 | KC1 | E | 312 | 28 | 48,53,53 | 1.56 | 7 (14%) | 55,89,89 | 1.84 | 12 (21%) |
| 29 | CLA | a | 807 | - | 65,73,73 | 1.48 | 7 (10%) | 76,113,113 | 1.42 | 9 (11%) |
| 29 | CLA | I | 210 | - | 55,63,73 | 1.58 | 6 (10%) | 64,101,113 | 1.47 | 7 (10%) |
| 29 | CLA | A | 209 | - | 65,73,73 | 1.47 | 6 (9%) | 76,113,113 | 1.39 | 9 (11%) |
| 37 | PID | N | 301 | - | 41,49,49 | 1.34 | 4 (9%) | 49,76,76 | 1.49 | 5 (10%) |
| 39 | KC1 | A | 213 | - | 48,53,53 | 1.53 | 7 (14%) | 55,89,89 | 1.84 | 11 (20%) |
| 39 | KC1 | O | 310 | - | 48,53,53 | 1.53 | 7 (14%) | 55,89,89 | 1.86 | 12 (21%) |
| 36 | DD6 | J | 303 | - | 39,45,45 | 2.10 | 3 (7%) | 52,67,67 | 2.11 | 18 (34%) |
| 36 | DD6 | N | 303 | - | 39,45,45 | 1.96 | 3 (7%) | 52,67,67 | 1.76 | 12 (23%) |
| 29 | CLA | P | 215 | - | 47,55,73 | 1.77 | 5 (10%) | 54,91,113 | 1.70 | 9 (16%) |
| 29 | CLA | C | 313 | 25 | 46,54,73 | 1.73 | 6 (13%) | 53,90,113 | 1.53 | 6 (11%) |
| 29 | CLA | h | 201 | - | 60,68,73 | 1.51 | 7 (11%) | 70,107,113 | 1.46 | 8 (11%) |
| 29 | CLA | A | 208 | - | 55,63,73 | 1.58 | 7 (12%) | 64,101,113 | 1.50 | 7 (10%) |
| 36 | DD6 | I | 205 | - | 39,45,45 | 2.45 | 5 (12%) | 52,67,67 | 2.18 | 17 (32%) |
| 29 | CLA | G | 314 | - | 60,68,73 | 1.52 | 7 (11%) | 70,107,113 | 1.49 | 8 (11%) |
| 29 | CLA | D | 313 | 20 | 45,53,73 | 1.76 | 6 (13%) | 52,89,113 | 1.55 | 6 (11%) |
| 36 | DD6 | G | 308 | - | 39,45,45 | 2.01 | 2 (5%) | 52,67,67 | 2.12 | 15 (28%) |
| 36 | DD6 | h | 202 | - | 39,45,45 | 2.19 | 5 (12%) | 52,67,67 | 2.33 | 19 (36%) |
| 29 | CLA | b | 701 | - | 65,73,73 | 1.45 | 7 (10%) | 76,113,113 | 1.44 | 9 (11%) |
| 37 | PID | T | 305 | - | 41,49,49 | 1.32 | 4 (9%) | 49,76,76 | 1.52 | 7 (14%) |
| 29 | CLA | T | 308 | - | 47,55,73 | 1.75 | 6 (12%) | 54,91,113 | 1.52 | 7 (12%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 29 | CLA | a | 809 | 1 | 65,73,73 | 1.46 | 7 (10%) | 76,113,113 | 1.41 | 8 (10%) |
| 37 | PID | T | 317 | - | 41,49,49 | 1.33 | 4 (9%) | 49,76,76 | 1.70 | 9 (18%) |
| 39 | KC1 | H | 314 | - | 48,53,53 | 1.51 | 7 (14%) | 55,89,89 | 1.86 | 10 (18%) |
| 29 | CLA | B | 312 | - | 65,73,73 | 1.45 | 7 (10%) | 76,113,113 | 1.41 | 7 (9%) |
| 38 | UIX | E | 304 | - | 41,49,49 | 1.30 | 4 (9%) | 52,74,74 | 2.43 | 18 (34%) |
| 29 | CLA | f | 803 | 6 | 46,54,73 | 1.73 | 6 (13%) | 53,90,113 | 1.56 | 6 (11%) |
| 29 | CLA | L | 309 | - | 55,63,73 | 1.59 | 6 (10%) | 64,101,113 | 1.48 | 7 (10%) |
| 29 | CLA | a | 806 | 1 | 65,73,73 | 1.45 | 7 (10%) | 76,113,113 | 1.44 | 7 (9%) |
| 29 | CLA | a | 801 | - | 65,73,73 | 1.44 | 10 (15%) | 76,113,113 | 1.40 | 7 (9%) |
| 29 | CLA | l | 509 | - | 41,49,73 | 1.83 | 7 (17%) | 47,84,113 | 1.65 | 8 (17%) |
| 32 | BCR | l | 507 | - | 41,41,41 | 0.75 | 0 | 56,56,56 | 1.99 | 16 (28%) |
| 29 | CLA | E | 308 | - | 65,73,73 | 1.47 | 6 (9%) | 76,113,113 | 1.39 | 8 (10%) |
| 29 | CLA | P | 214 | 27 | 46,54,73 | 1.77 | 6 (13%) | 53,90,113 | 1.55 | 6 (11%) |
| 29 | CLA | B | 315 | - | 46,54,73 | 1.73 | 6 (13%) | 53,90,113 | 1.59 | 6 (11%) |
| 29 | CLA | O | 314 | - | 47,55,73 | 1.78 | 7 (14%) | 54,91,113 | 1.58 | 8 (14%) |
| 29 | CLA | H | 312 | 22 | 46,54,73 | 1.73 | 6 (13%) | 53,90,113 | 1.59 | 6 (11%) |
| 29 | CLA | K | 216 | - | 41,49,73 | 1.81 | 7 (17%) | 47,84,113 | 1.74 | 7 (14%) |
| 29 | CLA | B | 310 | - | 65,73,73 | 1.45 | 7 (10%) | 76,113,113 | 1.38 | 7 (9%) |
| 39 | KC1 | C | 315 | 25 | 48,53,53 | 1.52 | 7 (14%) | 55,89,89 | 1.82 | 10 (18%) |
| 36 | DD6 | I | 202 | - | 39,45,45 | 2.03 | 3 (7%) | 52,67,67 | 1.92 | 14 (26%) |
| 39 | KC1 | C | 310 | - | 48,53,53 | 1.54 | 7 (14%) | 55,89,89 | 1.89 | 10 (18%) |
| 39 | KC1 | A | 205 | 29 | 48,53,53 | 1.53 | 7 (14%) | 55,89,89 | 1.87 | 13 (23%) |
| 29 | CLA | F | 311 | - | 46,54,73 | 1.73 | 6 (13%) | 53,90,113 | 1.59 | 6 (11%) |
| 39 | KC1 | D | 315 | - | 48,53,53 | 1.52 | 7 (14%) | 55,89,89 | 1.84 | 8 (14%) |
| 32 | BCR | a | 835 | - | 41,41,41 | 0.79 | 0 | 56,56,56 | 2.12 | 16 (28%) |
| 29 | CLA | b | 721 | - | 58,66,73 | 1.56 | 8 (13%) | 67,104,113 | 1.48 | 9 (13%) |
| 29 | CLA | b | 702 | - | 65,73,73 | 1.47 | 6 (9%) | 76,113,113 | 1.40 | 6 (7%) |
| 29 | CLA | C | 316 | - | 41,49,73 | 1.82 | 6 (14%) | 47,84,113 | 1.73 | 7 (14%) |
| 36 | DD6 | L | 305 | - | 39,45,45 | 2.05 | 3 (7%) | 52,67,67 | 1.95 | 14 (26%) |
| 29 | CLA | b | 706 | - | 65,73,73 | 1.48 | 7 (10%) | 76,113,113 | 1.41 | 7 (9%) |
| 29 | CLA | l | 502 | 10 | 65,73,73 | 1.49 | 9 (13%) | 76,113,113 | 1.39 | 9 (11%) |
| 29 | CLA | L | 310 | - | 55,63,73 | 1.60 | 6 (10%) | 64,101,113 | 1.48 | 7 (10%) |
| 39 | KC1 | K | 215 | - | 48,53,53 | 1.56 | 7 (14%) | 55,89,89 | 1.89 | 13 (23%) |
| 29 | CLA | D | 316 | - | 41,49,73 | 1.84 | 6 (14%) | 47,84,113 | 1.71 | 7 (14%) |
| 37 | PID | O | 301 | - | 41,49,49 | 1.32 | 4 (9%) | 49,76,76 | 1.62 | 6 (12%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 29 | CLA | T | 309 | 25 | 46,54,73 | 1.74 | 7 (15%) | 53,90,113 | 1.58 | 7 (13%) |
| 29 | CLA | b | 723 | - | 65,73,73 | 1.45 | 7 (10%) | 76,113,113 | 1.41 | 8 (10%) |
| 36 | DD6 | F | 303 | - | 39,45,45 | 2.11 | 3 (7%) | 52,67,67 | 2.09 | 13 (25%) |
| 29 | CLA | a | 802 | - | 65,73,73 | 1.47 | 6 (9%) | 76,113,113 | 1.47 | 9 (11%) |
| 36 | DD6 | K | 221 | - | 39,45,45 | 2.14 | 4 (10%) | 52,67,67 | 2.24 | 15 (28%) |
| 29 | CLA | F | 312 | 16 | 46,54,73 | 1.73 | 6 (13%) | 53,90,113 | 1.53 | 6 (11%) |
| 37 | PID | D | 303 | - | 41,49,49 | 1.37 | 4 (9%) | 49,76,76 | 1.51 | 8 (16%) |
| 39 | KC1 | H | 309 | - | 48,53,53 | 1.53 | 7 (14%) | 55,89,89 | 1.87 | 11 (20%) |
| 36 | DD6 | G | 307 | - | 39,45,45 | 2.71 | 10 (25%) | 52,67,67 | 2.55 | 19 (36%) |
| 29 | CLA | A | 212 | - | 55,63,73 | 1.56 | 7 (12%) | 64,101,113 | 1.47 | 8 (12%) |
| 38 | UIX | L | 302 | - | 41,49,49 | 1.26 | 3 (7%) | 52,74,74 | 2.41 | 17 (32%) |
| 29 | CLA | T | 316 | - | 41,49,73 | 1.84 | 6 (14%) | 47,84,113 | 1.67 | 7 (14%) |
| 29 | CLA | b | 722 | - | 58,66,73 | 1.53 | 7 (12%) | 67,104,113 | 1.50 | 7 (10%) |
| 29 | CLA | b | 731 | - | 56,64,73 | 1.57 | 6 (10%) | 65,102,113 | 1.47 | 9 (13%) |
| 29 | CLA | K | 210 | - | 50,58,73 | 1.65 | 6 (12%) | 58,95,113 | 1.58 | 8 (13%) |
| 39 | KC1 | D | 310 | - | 48,53,53 | 1.51 | 7 (14%) | 55,89,89 | 1.84 | 9 (16%) |
| 36 | DD6 | J | 301 | - | 39,45,45 | 2.06 | 3 (7%) | 52,67,67 | 2.26 | 17 (32%) |
| 34 | LMG | K | 201 | - | 43,43,55 | 0.79 | 0 | 51,51,63 | 1.32 | 5 (9%) |
| 38 | UIX | N | 306 | - | 41,49,49 | 1.26 | 4 (9%) | 52,74,74 | 2.60 | 20 (38%) |
| 29 | CLA | F | 310 | - | 46,54,73 | 1.70 | 7 (15%) | 53,90,113 | 1.63 | 7 (13%) |
| 29 | CLA | I | 216 | - | 52,60,73 | 1.64 | 7 (13%) | 60,97,113 | 1.58 | 9 (15%) |
| 29 | CLA | K | 218 | - | 45,53,73 | 1.79 | 6 (13%) | 52,89,113 | 1.56 | 6 (11%) |
| 29 | CLA | L | 316 | - | 52,60,73 | 1.68 | 7 (13%) | 60,97,113 | 1.48 | 8 (13%) |
| 29 | CLA | b | 736 | - | 65,73,73 | 1.48 | 9 (13%) | 76,113,113 | 6.29 | 12 (15%) |
| 29 | CLA | a | 812 | - | 60,68,73 | 1.51 | 7 (11%) | 70,107,113 | 1.50 | 7 (10%) |
| 29 | CLA | A | 207 | - | 55,63,73 | 1.60 | 7 (12%) | 64,101,113 | 1.48 | 7 (10%) |
| 37 | PID | C | 307 | - | 41,49,49 | 1.34 | 4 (9%) | 49,76,76 | 1.52 | 6 (12%) |
| 29 | CLA | B | 309 | - | 55,63,73 | 1.58 | 6 (10%) | 64,101,113 | 1.49 | 7 (10%) |
| 29 | CLA | L | 313 | - | 53,61,73 | 1.61 | 6 (11%) | 61,98,113 | 1.52 | 8 (13%) |
| 34 | LMG | b | 734 | - | 40,40,55 | 0.81 | 0 | 48,48,63 | 1.29 | 6 (12%) |
| 29 | CLA | i | 203 | - | 55,63,73 | 1.56 | 6 (10%) | 64,101,113 | 1.51 | 8 (12%) |
| 29 | CLA | a | 822 | - | 65,73,73 | 1.46 | 6 (9%) | 76,113,113 | 1.38 | 8 (10%) |
| 29 | CLA | K | 207 | 15 | 49,57,73 | 1.70 | 6 (12%) | 55,93,113 | 1.54 | 8 (14%) |
| 37 | PID | F | 302 | - | 41,49,49 | 1.34 | 4 (9%) | 49,76,76 | 1.67 | 6 (12%) |
| 29 | CLA | C | 314 | - | 47,55,73 | 1.74 | 6 (12%) | 54,91,113 | 1.64 | 8 (14%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 29 | CLA | J | 305 | - | 46,54,73 | 1.76 | 6 (13%) | 53,90,113 | 1.53 | 7 (13%) |
| 31 | LHG | a | 833 | - | 47,47,48 | 0.28 | 0 | 50,53,54 | 0.31 | 0 |
| 35 | DGD | b | 733 | - | 58,58,67 | 0.94 | 3 (5%) | 72,72,81 | 1.25 | 7 (9%) |
| 37 | PID | O | 304 | - | 41,49,49 | 1.34 | 4 (9%) | 49,76,76 | 1.50 | 6 (12%) |
| 29 | CLA | F | 315 | - | 41,49,73 | 1.84 | 5 (12%) | 47,84,113 | 1.71 | 8 (17%) |
| 29 | CLA | J | 306 | - | 65,73,73 | 1.44 | 7 (10%) | 76,113,113 | 1.42 | 7 (9%) |
| 39 | KC1 | H | 311 | - | 48,53,53 | 1.52 | 7 (14%) | 55,89,89 | 1.82 | 10 (18%) |
| 29 | CLA | D | 314 | - | 47,55,73 | 1.72 | 7 (14%) | 54,91,113 | 1.65 | 7 (12%) |
| 29 | CLA | N | 309 | - | 65,73,73 | 1.48 | 6 (9%) | 76,113,113 | 1.36 | 8 (10%) |
| 37 | PID | T | 307 | - | 41,49,49 | 1.33 | 4 (9%) | 49,76,76 | 1.58 | 8 (16%) |
| 29 | CLA | b | 725 | - | 65,73,73 | 1.47 | 8 (12%) | 76,113,113 | 1.35 | 7 (9%) |
| 29 | CLA | E | 315 | - | 57,65,73 | 1.60 | 6 (10%) | 66,103,113 | 1.45 | 8 (12%) |
| 29 | CLA | J | 308 | - | 56,64,73 | 1.57 | 6 (10%) | 65,102,113 | 1.49 | 8 (12%) |
| 36 | DD6 | G | 306 | - | 39,45,45 | 2.12 | 3 (7%) | 52,67,67 | 2.19 | 13 (25%) |
| 37 | PID | h | 204 | - | 41,49,49 | 1.35 | 4 (9%) | 49,76,76 | 1.40 | 6 (12%) |
| 29 | CLA | f | 802 | - | 46,54,73 | 1.73 | 7 (15%) | 53,90,113 | 1.54 | 6 (11%) |
| 29 | CLA | l | 503 | 10 | 65,73,73 | 1.48 | 8 (12%) | 76,113,113 | 1.40 | 8 (10%) |
| 29 | CLA | M | 311 | - | 46,54,73 | 1.76 | 6 (13%) | 53,90,113 | 1.55 | 8 (15%) |
| 36 | DD6 | F | 301 | - | 39,45,45 | 2.11 | 4 (10%) | 52,67,67 | 1.99 | 14 (26%) |
| 36 | DD6 | K | 206 | - | 39,45,45 | 2.05 | 3 (7%) | 52,67,67 | 2.01 | 14 (26%) |
| 29 | CLA | J | 313 | - | 41,49,73 | 1.83 | 6 (14%) | 47,84,113 | 1.67 | 8 (17%) |
| 38 | UIX | P | 207 | - | 41,49,49 | 1.27 | 3 (7%) | 52,74,74 | 2.56 | 19 (36%) |
| 29 | CLA | b | 720 | - | 65,73,73 | 1.49 | 8 (12%) | 76,113,113 | 1.36 | 6 (7%) |
| 29 | CLA | a | 814 | - | 46,54,73 | 1.74 | 7 (15%) | 53,90,113 | 1.53 | 6 (11%) |
| 37 | PID | N | 305 | - | 41,49,49 | 1.37 | 4 (9%) | 49,76,76 | 1.36 | 4 (8%) |
| 36 | DD6 | M | 303 | - | 39,45,45 | 2.11 | 4 (10%) | 52,67,67 | 2.03 | 14 (26%) |
| 29 | CLA | a | 803 | - | 65,73,73 | 1.49 | 7 (10%) | 76,113,113 | 1.38 | 6 (7%) |
| 38 | UIX | B | 304 | - | 41,49,49 | 1.27 | 3 (7%) | 52,74,74 | 2.45 | 16 (30%) |
| 37 | PID | O | 302 | - | 41,49,49 | 1.36 | 4 (9%) | 49,76,76 | 1.42 | 7 (14%) |
| 29 | CLA | J | 311 | - | 53,61,73 | 1.64 | 9 (16%) | 61,98,113 | 1.48 | 7 (11%) |
| 29 | CLA | l | 508 | - | 41,49,73 | 1.82 | 7 (17%) | 47,84,113 | 1.66 | 7 (14%) |
| 29 | CLA | N | 311 | - | 51,59,73 | 1.67 | 5 (9%) | 59,96,113 | 1.53 | 7 (11%) |
| 37 | PID | j | 101 | - | 41,49,49 | 1.37 | 4 (9%) | 49,76,76 | 1.46 | 9 (18%) |
| 36 | DD6 | A | 201 | - | 39,45,45 | 2.02 | 3 (7%) | 52,67,67 | 2.02 | 16 (30%) |
| 37 | PID | H | 302 | - | 41,49,49 | 1.36 | 4 (9%) | 49,76,76 | 1.40 | 6 (12%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 29 | CLA | b | 704 | - | 65,73,73 | 1.47 | 8 (12%) | 76,113,113 | 3.99 | 8 (10%) |
| 29 | CLA | b | 715 | - | 46,54,73 | 1.75 | 7 (15%) | 53,90,113 | 1.55 | 7 (13%) |
| 29 | CLA | l | 501 | - | 60,68,73 | 1.54 | 6 (10%) | 70,107,113 | 1.48 | 7 (10%) |
| 39 | KC1 | P | 211 | - | 48,53,53 | 1.54 | 7 (14%) | 55,89,89 | 1.86 | 13 (23%) |
| 29 | CLA | H | 308 | - | 65,73,73 | 1.48 | 6 (9%) | 76,113,113 | 1.41 | 9 (11%) |
| 36 | DD6 | O | 303 | - | 39,45,45 | 2.10 | 4 (10%) | 52,67,67 | 2.19 | 17 (32%) |
| 29 | CLA | E | 310 | 28 | 46,54,73 | 1.72 | 6 (13%) | 53,90,113 | 1.57 | 6 (11%) |
| 37 | PID | D | 306 | - | 41,49,49 | 1.36 | 4 (9%) | 49,76,76 | 1.42 | 8 (16%) |
| 29 | CLA | I | 214 | - | 55,63,73 | 1.57 | 7 (12%) | 64,101,113 | 1.48 | 8 (12%) |
| 29 | CLA | L | 315 | - | 41,49,73 | 1.87 | 7 (17%) | 47,84,113 | 1.63 | 7 (14%) |
| 39 | KC1 | O | 315 | - | 48,53,53 | 1.51 | 6 (12%) | 55,89,89 | 1.87 | 10 (18%) |
| 29 | CLA | B | 316 | - | 45,53,73 | 1.78 | 6 (13%) | 52,89,113 | 1.57 | 6 (11%) |
| 35 | DGD | j | 105 | - | 42,42,67 | 1.03 | 2 (4%) | 56,56,81 | 1.07 | 5 (8%) |
| 29 | CLA | A | 210 | 12 | 46,54,73 | 1.77 | 7 (15%) | 53,90,113 | 1.51 | 7 (13%) |
| 29 | CLA | G | 304 | - | 59,67,73 | 1.54 | 8 (13%) | 68,105,113 | 1.51 | 7 (10%) |
| 29 | CLA | K | 214 | - | 55,63,73 | 1.62 | 9 (16%) | 64,101,113 | 1.45 | 9 (14%) |
| 37 | PID | G | 303 | - | 41,49,49 | 1.37 | 4 (9%) | 49,76,76 | 1.33 | 5 (10%) |
| 29 | CLA | I | 209 | - | 60,68,73 | 1.52 | 7 (11%) | 70,107,113 | 5.16 | 11 (15%) |
| 29 | CLA | a | 813 | - | 51,59,73 | 1.69 | 7 (13%) | 59,96,113 | 1.50 | 7 (11%) |
| 32 | BCR | i | 204 | - | 41,41,41 | 0.76 | 0 | 56,56,56 | 2.35 | 15 (26%) |
| 29 | CLA | b | 726 | - | 65,73,73 | 1.48 | 7 (10%) | 76,113,113 | 1.37 | 8 (10%) |
| 36 | DD6 | L | 301 | - | 39,45,45 | 2.00 | 3 (7%) | 52,67,67 | 1.97 | 11 (21%) |
| 37 | PID | P | 202 | - | 41,49,49 | 1.32 | 4 (9%) | 49,76,76 | 1.37 | 8 (16%) |
| 37 | PID | Q | 304 | - | 41,49,49 | 1.33 | 4 (9%) | 49,76,76 | 1.54 | 6 (12%) |
| 29 | CLA | b | 711 | - | 58,66,73 | 1.56 | 7 (12%) | 67,104,113 | 1.44 | 8 (11%) |
| 29 | CLA | F | 316 | 16 | 41,49,73 | 1.82 | 6 (14%) | 47,84,113 | 1.68 | 7 (14%) |
| 29 | CLA | I | 213 | 14 | 65,73,73 | 1.48 | 6 (9%) | 76,113,113 | 4.10 | 12 (15%) |
| 29 | CLA | C | 308 | - | 47,55,73 | 1.73 | 6 (12%) | 54,91,113 | 1.52 | 7 (12%) |
| 29 | CLA | a | 831 | - | 65,73,73 | 1.46 | 7 (10%) | 76,113,113 | 4.96 | 9 (11%) |
| 29 | CLA | B | 314 | 21 | 41,49,73 | 1.80 | 7 (17%) | 47,84,113 | 1.72 | 7 (14%) |
| 29 | CLA | C | 309 | - | 65,73,73 | 1.47 | 6 (9%) | 76,113,113 | 1.37 | 6 (7%) |
| 36 | DD6 | A | 204 | - | 39,45,45 | 2.02 | 3 (7%) | 52,67,67 | 1.87 | 15 (28%) |
| 37 | PID | C | 304 | - | 41,49,49 | 1.34 | 4 (9%) | 49,76,76 | 1.44 | 6 (12%) |
| 29 | CLA | K | 208 | - | 46,54,73 | 1.74 | 7 (15%) | 53,90,113 | 1.52 | 6 (11%) |
| 29 | CLA | b | 707 | - | 65,73,73 | 1.48 | 7 (10%) | 76,113,113 | 1.42 | 9 (11%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 29 | CLA | a | 805 | - | 55,63,73 | 1.59 | 7 (12%) | 64,101,113 | 1.50 | 6 (9%) |
| 29 | CLA | b | 703 | - | 65,73,73 | 1.48 | 7 (10%) | 76,113,113 | 1.34 | 6 (7%) |
| 29 | CLA | K | 213 | - | 48,56,73 | 1.71 | 7 (14%) | 55,92,113 | 1.51 | 8 (14%) |
| 34 | LMG | A | 219 | - | 37,37,55 | 0.85 | 0 | 45,45,63 | 1.31 | 5 (11%) |
| 29 | CLA | A | 216 | - | 41,49,73 | 1.83 | 7 (17%) | 47,84,113 | 1.66 | 7 (14%) |
| 29 | CLA | a | 830 | - | 56,64,73 | 1.56 | 6 (10%) | 65,102,113 | 5.34 | 10 (15%) |
| 29 | CLA | b | 718 | - | 65,73,73 | 1.47 | 7 (10%) | 76,113,113 | 1.48 | 8 (10%) |
| 37 | PID | Q | 303 | - | 41,49,49 | 1.34 | 4 (9%) | 49,76,76 | 1.48 | 6 (12%) |
| 29 | CLA | M | 315 | - | 46,54,73 | 1.73 | 6 (13%) | 53,90,113 | 1.53 | 6 (11%) |
| 36 | DD6 | M | 302 | - | 39,45,45 | 2.11 | 4 (10%) | 52,67,67 | 2.09 | 14 (26%) |
| 39 | KC1 | F | 309 | - | 48,53,53 | 1.53 | 7 (14%) | 55,89,89 | 1.88 | 11 (20%) |
| 29 | CLA | Q | 307 | - | 47,55,73 | 1.74 | 6 (12%) | 54,91,113 | 1.52 | 7 (12%) |
| 32 | BCR | a | 838 | - | 41,41,41 | 0.76 | 0 | 56,56,56 | 2.12 | 18 (32%) |
| 29 | CLA | P | 210 | - | 65,73,73 | 1.47 | 6 (9%) | 76,113,113 | 1.36 | 7 (9%) |
| 37 | PID | G | 309 | - | 41,49,49 | 1.33 | 4 (9%) | 49,76,76 | 1.45 | 5 (10%) |
| 39 | KC1 | I | 215 | 14 | 48,53,53 | 1.54 | 7 (14%) | 55,89,89 | 1.87 | 11 (20%) |
| 29 | CLA | L | 307 | 39 | 50,58,73 | 1.68 | 7 (14%) | 58,95,113 | 5.67 | 10 (17%) |
| 29 | CLA | b | 709 | - | 60,68,73 | 1.52 | 7 (11%) | 70,107,113 | 1.43 | 8 (11%) |
| 29 | CLA | l | 505 | - | 65,73,73 | 1.48 | 6 (9%) | 76,113,113 | 1.37 | 8 (10%) |
| 29 | CLA | P | 209 | - | 47,55,73 | 1.75 | 5 (10%) | 54,91,113 | 1.53 | 7 (12%) |
| 34 | LMG | E | 316 | - | 32,32,55 | 0.99 | 1 (3%) | 40,40,63 | 1.27 | 2 (5%) |
| 29 | CLA | G | 301 | - | 49,57,73 | 1.69 | 7 (14%) | 55,93,113 | 1.57 | 7 (12%) |
| 29 | CLA | I | 208 | - | 46,54,73 | 1.74 | 6 (13%) | 53,90,113 | 5.89 | 8 (15%) |
| 38 | UIX | A | 203 | - | 41,49,49 | 1.27 | 4 (9%) | 52,74,74 | 2.39 | 21 (40%) |
| 37 | PID | C | 301 | - | 41,49,49 | 1.34 | 4 (9%) | 49,76,76 | 1.59 | 6 (12%) |
| 29 | CLA | a | 828 | - | 46,54,73 | 1.75 | 7 (15%) | 53,90,113 | 1.54 | 6 (11%) |
| 29 | CLA | M | 313 | - | 41,49,73 | 1.85 | 7 (17%) | 47,84,113 | 1.69 | 7 (14%) |
| 32 | BCR | a | 834 | - | 41,41,41 | 0.74 | 0 | 56,56,56 | 2.05 | 16 (28%) |
| 29 | CLA | i | 201 | - | 65,73,73 | 1.43 | 6 (9%) | 76,113,113 | 1.42 | 7 (9%) |
| 38 | UIX | F | 305 | - | 41,49,49 | 1.27 | 3 (7%) | 52,74,74 | 2.89 | 19 (36%) |
| 29 | CLA | a | 826 | - | 65,73,73 | 1.48 | 6 (9%) | 76,113,113 | 1.40 | 8 (10%) |
| 29 | CLA | N | 308 | - | 47,55,73 | 1.75 | 6 (12%) | 54,91,113 | 1.53 | 7 (12%) |
| 29 | CLA | T | 313 | - | 46,54,73 | 1.76 | 6 (13%) | 53,90,113 | 1.55 | 6 (11%) |
| 37 | PID | P | 206 | - | 41,49,49 | 1.36 | 4 (9%) | 49,76,76 | 1.79 | 8 (16%) |
| 37 | PID | T | 304 | - | 41,49,49 | 1.33 | 4 (9%) | 49,76,76 | 1.45 | 5 (10%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 29 | CLA | b | 717 | - | 65,73,73 | 1.48 | 6 (9%) | 76,113,113 | 1.37 | 9 (11%) |
| 29 | CLA | a | 818 | - | 47,55,73 | 1.74 | 6 (12%) | 54,91,113 | 1.53 | 8 (14%) |
| 29 | CLA | a | 820 | - | 65,73,73 | 1.47 | 8 (12%) | 76,113,113 | 1.36 | 7 (9%) |
| 29 | CLA | a | 837 | - | 55,63,73 | 1.60 | 6 (10%) | 64,101,113 | 1.40 | 7 (10%) |
| 29 | CLA | a | 815 | - | 45,53,73 | 1.75 | 7 (15%) | 52,89,113 | 1.63 | 8 (15%) |
| 37 | PID | O | 307 | - | 41,49,49 | 1.33 | 4 (9%) | 49,76,76 | 1.45 | 7 (14%) |
| 29 | CLA | D | 311 | - | 46,54,73 | 1.72 | 6 (13%) | 53,90,113 | 1.58 | 7 (13%) |
| 39 | KC1 | M | 305 | - | 48,53,53 | 1.52 | 7 (14%) | 55,89,89 | 1.89 | 12 (21%) |
| 29 | CLA | a | 821 | - | 47,55,73 | 1.73 | 6 (12%) | 54,91,113 | 1.53 | 7 (12%) |
| 29 | CLA | M | 309 | - | 46,54,73 | 1.76 | 6 (13%) | 53,90,113 | 1.53 | 7 (13%) |
| 29 | CLA | Q | 312 | - | 46,54,73 | 1.74 | 6 (13%) | 53,90,113 | 1.54 | 7 (13%) |
| 29 | CLA | I | 201 | 29 | 45,53,73 | 1.77 | 6 (13%) | 52,89,113 | 1.62 | 6 (11%) |
| 39 | KC1 | T | 310 | - | 48,53,53 | 1.53 | 7 (14%) | 55,89,89 | 1.79 | 10 (18%) |
| 40 | SQD | B | 317 | - | 41,42,54 | 0.44 | 1 (2%) | 50,53,65 | 0.50 | 0 |
| 32 | BCR | b | 728 | - | 41,41,41 | 0.78 | 1 (2%) | 56,56,56 | 2.04 | 15 (26%) |
| 29 | CLA | P | 217 | - | 41,49,73 | 1.84 | 6 (14%) | 47,84,113 | 1.74 | 7 (14%) |
| 32 | BCR | f | 804 | - | 41,41,41 | 0.74 | 0 | 56,56,56 | 1.98 | 16 (28%) |
| 29 | CLA | L | 311 | 19 | 46,54,73 | 1.75 | 6 (13%) | 53,90,113 | 1.49 | 7 (13%) |
| 30 | PQN | b | 727 | - | 34,34,34 | 1.54 | 2 (5%) | 42,45,45 | 1.19 | 3 (7%) |
| 29 | CLA | A | 215 | - | 47,55,73 | 1.72 | 7 (14%) | 54,91,113 | 1.55 | 6 (11%) |
| 29 | CLA | b | 713 | - | 53,61,73 | 1.65 | 5 (9%) | 61,98,113 | 1.45 | 6 (9%) |
| 39 | KC1 | T | 315 | 25 | 48,53,53 | 1.51 | 7 (14%) | 55,89,89 | 1.83 | 10 (18%) |
| 29 | CLA | a | 824 | - | 65,73,73 | 1.46 | 7 (10%) | 76,113,113 | 1.37 | 7 (9%) |
| 29 | CLA | M | 310 | 18 | 48,56,73 | 1.71 | 6 (12%) | 55,92,113 | 1.55 | 7 (12%) |
| 29 | CLA | F | 313 | 16 | 46,54,73 | 1.75 | 6 (13%) | 53,90,113 | 1.59 | 6 (11%) |
| 29 | CLA | N | 313 | 23 | 46,54,73 | 1.72 | 6 (13%) | 53,90,113 | 4.81 | 10 (18%) |
| 36 | DD6 | Q | 302 | - | 39,45,45 | 1.99 | 3 (7%) | 52,67,67 | 1.86 | 12 (23%) |
| 29 | CLA | a | 808 | - | 51,59,73 | 1.67 | 8 (15%) | 59,96,113 | 1.50 | 8 (13%) |
| 29 | CLA | I | 212 | - | 55,63,73 | 1.61 | 6 (10%) | 64,101,113 | 6.83 | 13 (20%) |
| 36 | DD6 | B | 302 | - | 39,45,45 | 2.06 | 3 (7%) | 52,67,67 | 1.92 | 13 (25%) |
| 37 | PID | P | 203 | - | 41,49,49 | 1.36 | 4 (9%) | 49,76,76 | 1.45 | 8 (16%) |
| 29 | CLA | A | 218 | 12 | 60,68,73 | 1.52 | 7 (11%) | 70,107,113 | 1.46 | 8 (11%) |
| 36 | DD6 | E | 303 | - | 39,45,45 | 2.02 | 3 (7%) | 52,67,67 | 1.74 | 10 (19%) |
| 36 | DD6 | G | 305 | - | 39,45,45 | 2.20 | 3 (7%) | 52,67,67 | 2.96 | 17 (32%) |
| 29 | CLA | G | 312 | 13 | 65,73,73 | 1.47 | 8 (12%) | 76,113,113 | 1.39 | 8 (10%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 37 | PID | N | 302 | - | 41,49,49 | 1.36 | 4 (9%) | 49,76,76 | 1.41 | 5 (10%) |
| 36 | DD6 | B | 305 | - | 39,45,45 | 2.02 | 3 (7%) | 52,67,67 | 1.91 | 16 (30%) |
| 37 | PID | O | 305 | - | 41,49,49 | 1.35 | 4 (9%) | 49,76,76 | 1.59 | 7 (14%) |
| 29 | CLA | E | 314 | 28 | 48,56,73 | 1.72 | 7 (14%) | 55,92,113 | 1.54 | 7 (12%) |
| 36 | DD6 | C | 303 | - | 39,45,45 | 2.07 | 3 (7%) | 52,67,67 | 2.04 | 15 (28%) |
| 29 | CLA | b | 716 | - | 53,61,73 | 1.62 | 7 (13%) | 61,98,113 | 1.53 | 8 (13%) |
| 36 | DD6 | B | 319 | - | 39,45,45 | 2.09 | 3 (7%) | 52,67,67 | 2.26 | 16 (30%) |
| 37 | PID | D | 307 | - | 41,49,49 | 1.35 | 4 (9%) | 49,76,76 | 1.59 | 7 (14%) |
| 37 | PID | F | 306 | - | 41,49,49 | 1.35 | 4 (9%) | 49,76,76 | 1.47 | 6 (12%) |
| 29 | CLA | a | 810 | 1 | 55,63,73 | 1.61 | 7 (12%) | 64,101,113 | 1.46 | 8 (12%) |
| 36 | DD6 | M | 304 | - | 39,45,45 | 2.05 | 3 (7%) | 52,67,67 | 1.76 | 13 (25%) |
| 37 | PID | Q | 301 | - | 41,49,49 | 1.34 | 4 (9%) | 49,76,76 | 1.47 | 6 (12%) |
| 29 | CLA | a | 825 | - | 65,73,73 | 1.49 | 8 (12%) | 76,113,113 | 1.48 | 9 (11%) |
| 37 | PID | P | 205 | - | 41,49,49 | 1.34 | 4 (9%) | 49,76,76 | 1.54 | 6 (12%) |
| 29 | CLA | a | 811 | - | 56,64,73 | 1.62 | 6 (10%) | 65,102,113 | 1.43 | 7 (10%) |
| 37 | PID | F | 304 | - | 41,49,49 | 1.61 | 5 (12%) | 49,76,76 | 1.57 | 7 (14%) |
| 29 | CLA | H | 315 | - | 41,49,73 | 1.84 | 6 (14%) | 47,84,113 | 1.66 | 8 (17%) |
| 29 | CLA | P | 212 | - | 51,59,73 | 1.68 | 6 (11%) | 59,96,113 | 1.50 | 8 (13%) |
| 38 | UIX | J | 304 | - | 41,49,49 | 1.26 | 3 (7%) | 52,74,74 | 2.40 | 13 (25%) |
| 29 | CLA | b | 708 | 2 | 52,60,73 | 1.66 | 7 (13%) | 60,97,113 | 1.55 | 8 (13%) |
| 36 | DD6 | J | 302 | - | 39,45,45 | 2.08 | 2 (5%) | 52,67,67 | 2.19 | 17 (32%) |
| 29 | CLA | J | 309 | 17 | 46,54,73 | 1.72 | 6 (13%) | 53,90,113 | 1.61 | 6 (11%) |
| 35 | DGD | h | 203 | - | 55,55,67 | 0.90 | 2 (3%) | 69,69,81 | 0.98 | 3 (4%) |
| 29 | CLA | B | 306 | 21 | 49,57,73 | 1.70 | 6 (12%) | 55,93,113 | 1.55 | 8 (14%) |
| 29 | CLA | H | 310 | - | 51,59,73 | 1.69 | 6 (11%) | 59,96,113 | 1.54 | 8 (13%) |
| 29 | CLA | G | 311 | 13 | 51,59,73 | 1.64 | 6 (11%) | 59,96,113 | 1.50 | 7 (11%) |
| 29 | CLA | F | 307 | - | 46,54,73 | 1.74 | 6 (13%) | 53,90,113 | 1.56 | 7 (13%) |
| 29 | CLA | b | 724 | - | 47,55,73 | 1.73 | 9 (19%) | 54,91,113 | 1.54 | 8 (14%) |
| 29 | CLA | L | 317 | - | 46,54,73 | 1.75 | 6 (13%) | 53,90,113 | 1.55 | 6 (11%) |
| 37 | PID | Q | 306 | - | 41,49,49 | 1.33 | 4 (9%) | 49,76,76 | 1.52 | 6 (12%) |
| 29 | CLA | a | 804 | - | 55,63,73 | 1.62 | 7 (12%) | 64,101,113 | 1.54 | 9 (14%) |
| 30 | PQN | a | 832 | - | 34,34,34 | 1.52 | 2 (5%) | 42,45,45 | 1.23 | 5 (11%) |
| 39 | KC1 | B | 313 | 21 | 48,53,53 | 1.53 | 7 (14%) | 55,89,89 | 1.86 | 12 (21%) |
| 37 | PID | G | 310 | - | 41,49,49 | 1.33 | 4 (9%) | 49,76,76 | 1.45 | 7 (14%) |
| 39 | KC1 | N | 310 | - | 48,53,53 | 1.52 | 7 (14%) | 55,89,89 | 1.86 | 10 (18%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 34 | LMG | h | 205 | - | 28,28,55 | 1.02 | 1 (3%) | 36,36,63 | 1.27 | 4 (11%) |
| 29 | CLA | T | 314 | - | 47,55,73 | 1.73 | 5 (10%) | 54,91,113 | 1.66 | 9 (16%) |
| 29 | CLA | D | 308 | - | 47,55,73 | 1.73 | 6 (12%) | 54,91,113 | 1.55 | 7 (12%) |
| 35 | DGD | j | 106 | - | 50,50,67 | 0.97 | 2 (4%) | 64,64,81 | 1.04 | 4 (6%) |
| 34 | LMG | b | 732 | - | 44,44,55 | 0.80 | 1 (2%) | 52,52,63 | 1.32 | 6 (11%) |
| 39 | KC1 | Q | 314 | 26 | 48,53,53 | 1.54 | 7 (14%) | 55,89,89 | 1.87 | 10 (18%) |
| 39 | KC1 | Q | 309 | - | 48,53,53 | 1.54 | 7 (14%) | 55,89,89 | 1.88 | 11 (20%) |
| 39 | KC1 | P | 216 | - | 48,53,53 | 1.51 | 7 (14%) | 55,89,89 | 1.84 | 9 (16%) |
| 39 | KC1 | P | 213 | 27 | 48,53,53 | 1.52 | 7 (14%) | 55,89,89 | 1.78 | 12 (21%) |
| 35 | DGD | m | 102 | - | 67,67,67 | 0.83 | 2 (2%) | 81,81,81 | 0.91 | 4 (4%) |
| 29 | CLA | O | 309 | - | 65,73,73 | 1.51 | 6 (9%) | 76,113,113 | 1.34 | 6 (7%) |
| 29 | CLA | G | 317 | - | 53,61,73 | 1.62 | 7 (13%) | 61,98,113 | 1.47 | 6 (9%) |
| 29 | CLA | E | 309 | - | 46,54,73 | 1.76 | 6 (13%) | 53,90,113 | 1.56 | 7 (13%) |
| 29 | CLA | a | 816 | - | 46,54,73 | 1.73 | 7 (15%) | 53,90,113 | 1.56 | 7 (13%) |
| 29 | CLA | I | 211 | - | 65,73,73 | 1.44 | 7 (10%) | 76,113,113 | 1.43 | 8 (10%) |
| 29 | CLA | G | 319 | 13 | 41,49,73 | 1.81 | 6 (14%) | 47,84,113 | 1.69 | 7 (14%) |
| 29 | CLA | K | 212 | - | 52,60,73 | 1.69 | 7 (13%) | 60,97,113 | 1.50 | 9 (15%) |
| 37 | PID | H | 304 | - | 41,49,49 | 1.34 | 4 (9%) | 49,76,76 | 1.63 | 5 (10%) |
| 29 | CLA | Q | 310 | - | 65,73,73 | 1.48 | 6 (9%) | 76,113,113 | 1.39 | 8 (10%) |
| 29 | CLA | Q | 308 | - | 65,73,73 | 1.48 | 7 (10%) | 76,113,113 | 1.41 | 8 (10%) |
| 29 | CLA | Q | 313 | - | 47,55,73 | 1.73 | 6 (12%) | 54,91,113 | 1.53 | 7 (12%) |
| 39 | KC1 | N | 315 | - | 48,53,53 | 1.50 | 6 (12%) | 55,89,89 | 1.81 | 10 (18%) |
| 29 | CLA | H | 313 | - | 47,55,73 | 1.74 | 6 (12%) | 54,91,113 | 1.64 | 8 (14%) |
| 29 | CLA | O | 316 | - | 41,49,73 | 1.85 | 6 (14%) | 47,84,113 | 1.68 | 7 (14%) |
| 35 | DGD | G | 320 | - | 46,46,67 | 1.01 | 2 (4%) | 60,60,81 | 0.98 | 3 (5%) |
| 29 | CLA | K | 209 | - | 54,62,73 | 1.61 | 7 (12%) | 62,99,113 | 1.50 | 9 (14%) |
| 29 | CLA | N | 316 | - | 41,49,73 | 1.85 | 6 (14%) | 47,84,113 | 1.66 | 7 (14%) |
| 29 | CLA | A | 217 | - | 51,59,73 | 1.66 | 6 (11%) | 59,96,113 | 1.49 | 8 (13%) |
| 29 | CLA | O | 308 | - | 47,55,73 | 1.76 | 6 (12%) | 54,91,113 | 1.55 | 7 (12%) |
| 29 | CLA | b | 710 | - | 46,54,73 | 1.74 | 7 (15%) | 53,90,113 | 1.53 | 7 (13%) |
| 29 | CLA | a | 823 | - | 58,66,73 | 1.54 | 7 (12%) | 67,104,113 | 1.48 | 8 (11%) |
| 29 | CLA | l | 510 | - | 45,53,73 | 1.80 | 6 (13%) | 52,89,113 | 1.54 | 8 (15%) |
| 32 | BCR | b | 729 | - | 41,41,41 | 0.79 | 1 (2%) | 56,56,56 | 1.88 | 20 (35%) |
| 37 | PID | C | 302 | - | 41,49,49 | 1.34 | 4 (9%) | 49,76,76 | 1.44 | 6 (12%) |
| 29 | CLA | E | 305 | - | 61,69,73 | 1.54 | 6 (9%) | 71,108,113 | 1.45 | 7 (9%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 36 | DD6 | E | 302 | - | 39,45,45 | 2.11 | 3 (7%) | 52,67,67 | 2.26 | 18 (34%) |
| 38 | UIX | T | 306 | - | 41,49,49 | 1.29 | 4 (9%) | 52,74,74 | 2.77 | 24 (46%) |
| 39 | KC1 | C | 312 | - | 48,53,53 | 1.54 | 7 (14%) | 55,89,89 | 1.87 | 12 (21%) |
| 37 | PID | D | 302 | - | 41,49,49 | 1.34 | 4 (9%) | 49,76,76 | 1.45 | 5 (10%) |
| 37 | PID | N | 307 | - | 41,49,49 | 1.36 | 4 (9%) | 49,76,76 | 1.59 | 9 (18%) |
| 38 | UIX | C | 306 | - | 41,49,49 | 1.27 | 4 (9%) | 52,74,74 | 2.55 | 22 (42%) |
| 29 | CLA | I | 207 | 14 | 49,57,73 | 1.68 | 7 (14%) | 55,93,113 | 1.59 | 7 (12%) |
| 39 | KC1 | L | 314 | - | 48,53,53 | 1.55 | 7 (14%) | 55,89,89 | 1.86 | 11 (20%) |
| 29 | CLA | N | 314 | - | 47,55,73 | 1.72 | 7 (14%) | 54,91,113 | 1.61 | 7 (12%) |
| 29 | CLA | D | 309 | - | 46,54,73 | 1.74 | 6 (13%) | 53,90,113 | 1.57 | 6 (11%) |
| 35 | DGD | B | 318 | - | 46,46,67 | 1.00 | 2 (4%) | 60,60,81 | 1.32 | 10 (16%) |
| 29 | CLA | a | 817 | - | 45,53,73 | 1.80 | 6 (13%) | 52,89,113 | 1.55 | 7 (13%) |
| 29 | CLA | M | 307 | - | 55,63,73 | 1.60 | 7 (12%) | 64,101,113 | 1.44 | 7 (10%) |
| 36 | DD6 | D | 304 | - | 39,45,45 | 2.09 | 4 (10%) | 52,67,67 | 2.14 | 15 (28%) |
| 33 | SF4 | c | 102 | 3 | 0,12,12 | - | - | - | - | - |
| 29 | CLA | E | 306 | 28 | 65,73,73 | 1.47 | 7 (10%) | 76,113,113 | 1.38 | 7 (9%) |
| 39 | KC1 | E | 307 | - | 48,53,53 | 1.52 | 7 (14%) | 55,89,89 | 1.87 | 11 (20%) |
| 29 | CLA | L | 312 | - | 55,63,73 | 1.58 | 6 (10%) | 64,101,113 | 1.45 | 7 (10%) |
| 39 | KC1 | O | 312 | - | 48,53,53 | 1.48 | 7 (14%) | 55,89,89 | 1.98 | 11 (20%) |
| 29 | CLA | f | 805 | - | 60,68,73 | 1.53 | 6 (10%) | 70,107,113 | 1.40 | 7 (10%) |
| 36 | DD6 | A | 202 | - | 39,45,45 | 1.97 | 3 (7%) | 52,67,67 | 1.81 | 10 (19%) |
| 37 | PID | C | 305 | - | 41,49,49 | 1.36 | 4 (9%) | 49,76,76 | 1.95 | 9 (18%) |
| 29 | CLA | K | 217 | - | 46,54,73 | 1.76 | 8 (17%) | 53,90,113 | 1.55 | 6 (11%) |
| 36 | DD6 | I | 204 | - | 39,45,45 | 2.19 | 5 (12%) | 52,67,67 | 2.08 | 16 (30%) |
| 36 | DD6 | M | 301 | - | 39,45,45 | 2.00 | 3 (7%) | 52,67,67 | 1.85 | 15 (28%) |
| 39 | KC1 | G | 318 | - | 48,53,53 | 1.56 | 7 (14%) | 55,89,89 | 1.83 | 10 (18%) |
| 29 | CLA | E | 311 | - | 65,73,73 | 1.46 | 7 (10%) | 76,113,113 | 1.43 | 9 (11%) |
| 34 | LMG | K | 219 | - | 35,35,55 | 0.92 | 1 (2%) | 43,43,63 | 1.19 | 4 (9%) |
| 36 | DD6 | H | 303 | - | 39,45,45 | 1.94 | 3 (7%) | 52,67,67 | 1.98 | 14 (26%) |
| 37 | PID | T | 302 | - | 41,49,49 | 1.38 | 4 (9%) | 49,76,76 | 1.51 | 8 (16%) |
| 37 | PID | D | 305 | - | 41,49,49 | 1.32 | 4 (9%) | 49,76,76 | 1.48 | 7 (14%) |
| 29 | CLA | J | 307 | - | 46,54,73 | 1.73 | 7 (15%) | 53,90,113 | 1.52 | 6 (11%) |
| 29 | CLA | M | 306 | - | 53,61,73 | 1.62 | 6 (11%) | 61,98,113 | 1.51 | 7 (11%) |
| 29 | CLA | A | 214 | 12 | 41,49,73 | 1.83 | 6 (14%) | 47,84,113 | 1.62 | 7 (14%) |
| 29 | CLA | M | 308 | - | 48,56,73 | 1.71 | 7 (14%) | 55,92,113 | 1.52 | 6 (10%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 29 | CLA | b | 714 | - | 64,72,73 | 1.47 | 7 (10%) | 74,111,113 | 1.40 | 9 (12%) |
| 36 | DD6 | P | 204 | - | 39,45,45 | 1.99 | 3 (7%) | 52,67,67 | 2.19 | 15 (28%) |
| 29 | CLA | L | 308 | - | 53,61,73 | 1.62 | 6 (11%) | 61,98,113 | 5.52 | 10 (16%) |
| 32 | BCR | f | 801 | - | 41,41,41 | 0.71 | 0 | 56,56,56 | 2.03 | 17 (30%) |
| 33 | SF4 | c | 101 | 3 | 0,12,12 | - | - | - | - | - |
| 36 | DD6 | L | 304 | - | 39,45,45 | 2.02 | 3 (7%) | 52,67,67 | 1.98 | 17 (32%) |
| 29 | CLA | O | 311 | - | 51,59,73 | 1.67 | 6 (11%) | 59,96,113 | 1.52 | 7 (11%) |
| 39 | KC1 | M | 312 | - | 48,53,53 | 1.53 | 7 (14%) | 55,89,89 | 1.89 | 11 (20%) |
| 29 | CLA | K | 211 | - | 55,63,73 | 1.58 | 7 (12%) | 64,101,113 | 1.51 | 10 (15%) |
| 38 | UIX | Q | 305 | - | 41,49,49 | 1.26 | 4 (9%) | 52,74,74 | 2.78 | 22 (42%) |
| 29 | CLA | B | 307 | - | 45,53,73 | 1.78 | 6 (13%) | 52,89,113 | 1.58 | 7 (13%) |
| 29 | CLA | G | 313 | - | 55,63,73 | 1.57 | 6 (10%) | 64,101,113 | 1.50 | 7 (10%) |
| 29 | CLA | I | 217 | - | 55,63,73 | 1.61 | 6 (10%) | 64,101,113 | 1.45 | 7 (10%) |
| 29 | CLA | j | 104 | 29 | 52,60,73 | 1.64 | 7 (13%) | 60,97,113 | 1.57 | 7 (11%) |
| 33 | SF4 | a | 836 | 2,1 | 0,12,12 | - | - | - | - | - |
| 39 | KC1 | T | 312 | - | 48,53,53 | 1.50 | 7 (14%) | 55,89,89 | 1.84 | 10 (18%) |
| 29 | CLA | O | 313 | 24 | 46,54,73 | 1.73 | 6 (13%) | 53,90,113 | 1.59 | 6 (11%) |
| 29 | CLA | C | 311 | - | 51,59,73 | 1.65 | 6 (11%) | 59,96,113 | 1.54 | 8 (13%) |
| 36 | DD6 | B | 301 | - | 38,44,45 | 2.03 | 3 (7%) | 50,65,67 | 2.00 | 14 (28%) |
| 29 | CLA | i | 202 | - | 65,73,73 | 1.45 | 7 (10%) | 76,113,113 | 1.38 | 8 (10%) |
| 39 | KC1 | J | 312 | 17 | 48,53,53 | 1.52 | 7 (14%) | 55,89,89 | 1.84 | 10 (18%) |
| 36 | DD6 | L | 303 | - | 39,45,45 | 2.06 | 3 (7%) | 52,67,67 | 1.73 | 13 (25%) |
| 37 | PID | H | 301 | - | 41,49,49 | 1.34 | 4 (9%) | 49,76,76 | 1.48 | 5 (10%) |
| 29 | CLA | b | 705 | - | 65,73,73 | 1.45 | 8 (12%) | 76,113,113 | 1.45 | 7 (9%) |
| 36 | DD6 | I | 203 | - | 39,45,45 | 2.29 | 3 (7%) | 52,67,67 | 2.41 | 17 (32%) |
| 29 | CLA | Q | 315 | - | 41,49,73 | 1.84 | 7 (17%) | 47,84,113 | 1.69 | 7 (14%) |
| 37 | PID | T | 301 | - | 41,49,49 | 1.34 | 4 (9%) | 49,76,76 | 1.49 | 5 (10%) |
| 34 | LMG | b | 730 | - | 46,46,55 | 0.81 | 2 (4%) | 54,54,63 | 1.32 | 5 (9%) |
| 37 | PID | H | 305 | - | 41,49,49 | 1.33 | 4 (9%) | 49,76,76 | 1.75 | 8 (16%) |
| 37 | PID | E | 301 | - | 41,49,49 | 1.39 | 4 (9%) | 49,76,76 | 1.95 | 9 (18%) |
| 29 | CLA | l | 504 | - | 65,73,73 | 1.46 | 6 (9%) | 76,113,113 | 4.11 | 11 (14%) |
| 34 | LMG | K | 220 | - | 36,36,55 | 0.86 | 1 (2%) | 44,44,63 | 1.23 | 4 (9%) |
| 29 | CLA | T | 311 | - | 46,54,73 | 1.74 | 5 (10%) | 53,90,113 | 1.56 | 7 (13%) |
| 36 | DD6 | K | 203 | - | 39,45,45 | 2.04 | 3 (7%) | 52,67,67 | 1.90 | 13 (25%) |
| 29 | CLA | B | 308 | - | 65,73,73 | 1.47 | 7 (10%) | 76,113,113 | 1.40 | 10 (13%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 35 | DGD | j | 103 | - | 44,44,67 | 0.99 | 2 (4%) | 58,58,81 | 1.32 | 9 (15%) |
| 37 | PID | H | 306 | - | 41,49,49 | 1.31 | 4 (9%) | 49,76,76 | 1.46 | 6 (12%) |
| 34 | LMG | P | 201 | - | 27,27,55 | 0.98 | 0 | 35,35,63 | 1.29 | 5 (14%) |
| 29 | CLA | D | 312 | 20 | 46,54,73 | 1.76 | 6 (13%) | 53,90,113 | 1.53 | 6 (11%) |
| 39 | KC1 | N | 312 | 23 | 48,53,53 | 1.52 | 7 (14%) | 55,89,89 | 1.86 | 12 (21%) |
| 39 | KC1 | F | 314 | - | 48,53,53 | 1.50 | 7 (14%) | 55,89,89 | 1.87 | 10 (18%) |
| 36 | DD6 | D | 301 | - | 39,45,45 | 2.08 | 3 (7%) | 52,67,67 | 2.07 | 15 (28%) |
| 36 | DD6 | K | 202 | - | 39,45,45 | 2.15 | 3 (7%) | 52,67,67 | 3.00 | 16 (30%) |
| 36 | DD6 | T | 303 | - | 39,45,45 | 1.98 | 3 (7%) | 52,67,67 | 1.97 | 15 (28%) |
| 36 | DD6 | K | 205 | - | 39,45,45 | 2.05 | 3 (7%) | 52,67,67 | 1.91 | 17 (32%) |
| 38 | UIX | O | 306 | - | 41,49,49 | 1.25 | 3 (7%) | 52,74,74 | 2.70 | 21 (40%) |
| 29 | CLA | H | 307 | - | 47,55,73 | 1.74 | 6 (12%) | 54,91,113 | 1.52 | 7 (12%) |
| 29 | CLA | a | 819 | - | 57,65,73 | 1.58 | 7 (12%) | 66,103,113 | 1.44 | 9 (13%) |
| 37 | PID | N | 304 | - | 41,49,49 | 1.34 | 4 (9%) | 49,76,76 | 1.48 | 5 (10%) |
| 29 | CLA | A | 211 | - | 55,63,73 | 1.57 | 6 (10%) | 64,101,113 | 1.45 | 7 (10%) |
| 29 | CLA | J | 310 | - | 47,55,73 | 1.71 | 6 (12%) | 54,91,113 | 1.59 | 7 (12%) |
| 40 | SQD | J | 314 | - | 44,45,54 | 0.42 | 1 (2%) | 53,56,65 | 0.61 | 2 (3%) |
| 29 | CLA | E | 313 | - | 41,49,73 | 1.85 | 6 (14%) | 47,84,113 | 1.67 | 7 (14%) |
| 39 | KC1 | L | 306 | 29 | 48,53,53 | 1.55 | 7 (14%) | 55,89,89 | 1.90 | 14 (25%) |
| 36 | DD6 | K | 204 | - | 39,45,45 | 2.08 | 3 (7%) | 52,67,67 | 1.95 | 18 (34%) |
| 34 | LMG | j | 102 | - | 43,43,55 | 0.78 | 0 | 51,51,63 | 1.29 | 5 (9%) |
| 29 | CLA | B | 311 | 21 | 51,59,73 | 1.66 | 7 (13%) | 59,96,113 | 1.52 | 7 (11%) |
| 39 | KC1 | Q | 311 | - | 48,53,53 | 1.53 | 7 (14%) | 55,89,89 | 1.85 | 11 (20%) |
| 36 | DD6 | m | 101 | - | 39,45,45 | 2.04 | 3 (7%) | 52,67,67 | 2.04 | 16 (30%) |
| 29 | CLA | b | 712 | - | 65,73,73 | 1.47 | 7 (10%) | 76,113,113 | 4.09 | 11 (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 |
|-----|------|-------|-----|------|---------|------------|---------|
| 39 | KC1 | G | 315 | - | - | 6/15/71/71 | - |
| 37 | PID | P | 208 | - | - | 4/24/93/93 | 0/4/4/4 |
| 32 | BCR | m | 103 | - | - | 5/29/63/63 | 0/2/2/2 |
| 36 | DD6 | B | 303 | - | - | 0/26/80/80 | 0/3/3/3 |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 29 | CLA | b | 719 | - | 1/1/12/20 | 10/19/97/115 | - |
| 29 | CLA | A | 206 | 39 | 1/1/11/20 | 3/13/91/115 | - |
| 29 | CLA | a | 827 | - | 1/1/15/20 | 12/37/115/115 | - |
| 29 | CLA | a | 829 | - | 1/1/15/20 | 16/37/115/115 | - |
| 36 | DD6 | I | 206 | - | - | 2/26/80/80 | 0/3/3/3 |
| 29 | CLA | G | 316 | - | 1/1/15/20 | 12/37/115/115 | - |
| 29 | CLA | F | 308 | - | 1/1/11/20 | 3/15/93/115 | - |
| 29 | CLA | G | 302 | - | 1/1/15/20 | 15/37/115/115 | - |
| 32 | BCR | l | 506 | - | - | 9/29/63/63 | 0/2/2/2 |
| 29 | CLA | M | 314 | - | 1/1/12/20 | 7/22/100/115 | - |
| 32 | BCR | b | 735 | - | - | 4/29/63/63 | 0/2/2/2 |
| 39 | KC1 | E | 312 | 28 | - | 7/15/71/71 | - |
| 29 | CLA | a | 807 | - | 1/1/15/20 | 16/37/115/115 | - |
| 29 | CLA | I | 210 | - | 1/1/13/20 | 6/25/103/115 | - |
| 29 | CLA | A | 209 | - | 1/1/15/20 | 20/37/115/115 | - |
| 37 | PID | N | 301 | - | - | 4/24/93/93 | 0/4/4/4 |
| 39 | KC1 | A | 213 | - | - | 7/15/71/71 | - |
| 39 | KC1 | O | 310 | - | - | 6/15/71/71 | - |
| 36 | DD6 | J | 303 | - | - | 2/26/80/80 | 0/3/3/3 |
| 36 | DD6 | N | 303 | - | - | 1/26/80/80 | 0/3/3/3 |
| 29 | CLA | P | 215 | - | 1/1/11/20 | 7/16/94/115 | - |
| 29 | CLA | C | 313 | 25 | 1/1/11/20 | 5/15/93/115 | - |
| 29 | CLA | h | 201 | - | 1/1/14/20 | 7/31/109/115 | - |
| 29 | CLA | A | 208 | - | 1/1/13/20 | 3/25/103/115 | - |
| 36 | DD6 | I | 205 | - | - | 6/26/80/80 | 0/3/3/3 |
| 29 | CLA | G | 314 | - | 1/1/14/20 | 8/31/109/115 | - |
| 29 | CLA | D | 313 | 20 | 1/1/11/20 | 4/13/91/115 | - |
| 36 | DD6 | G | 308 | - | - | 1/26/80/80 | 0/3/3/3 |
| 36 | DD6 | h | 202 | - | - | 2/26/80/80 | 0/3/3/3 |
| 29 | CLA | b | 701 | - | 1/1/15/20 | 13/37/115/115 | - |
| 37 | PID | T | 305 | - | - | 0/24/93/93 | 0/4/4/4 |
| 29 | CLA | T | 308 | - | 1/1/11/20 | 2/16/94/115 | - |
| 29 | CLA | a | 809 | 1 | 1/1/15/20 | 17/37/115/115 | - |
| 37 | PID | T | 317 | - | - | 10/24/93/93 | 1/4/4/4 |
| 39 | KC1 | H | 314 | - | - | 6/15/71/71 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 29 | CLA | B | 312 | - | 1/1/15/20 | 10/37/115/115 | - |
| 38 | UIX | E | 304 | - | - | 2/31/87/87 | 0/3/3/3 |
| 29 | CLA | f | 803 | 6 | 1/1/11/20 | 8/15/93/115 | - |
| 29 | CLA | L | 309 | - | 1/1/13/20 | 2/25/103/115 | - |
| 29 | CLA | a | 806 | 1 | 1/1/15/20 | 16/37/115/115 | - |
| 29 | CLA | a | 801 | - | 1/1/15/20 | 10/37/115/115 | - |
| 29 | CLA | l | 509 | - | 1/1/10/20 | 2/8/86/115 | - |
| 32 | BCR | l | 507 | - | - | 5/29/63/63 | 0/2/2/2 |
| 29 | CLA | E | 308 | - | 1/1/15/20 | 10/37/115/115 | - |
| 29 | CLA | P | 214 | 27 | 1/1/11/20 | 7/15/93/115 | - |
| 29 | CLA | B | 315 | - | 1/1/11/20 | 3/15/93/115 | - |
| 29 | CLA | O | 314 | - | - | 6/16/94/115 | - |
| 29 | CLA | H | 312 | 22 | 1/1/11/20 | 7/15/93/115 | - |
| 29 | CLA | K | 216 | - | 1/1/10/20 | 3/8/86/115 | - |
| 29 | CLA | B | 310 | - | 1/1/15/20 | 16/37/115/115 | - |
| 39 | KC1 | C | 315 | 25 | - | 8/15/71/71 | - |
| 36 | DD6 | I | 202 | - | - | 5/26/80/80 | 0/3/3/3 |
| 39 | KC1 | C | 310 | - | - | 9/15/71/71 | - |
| 39 | KC1 | A | 205 | 29 | - | 6/15/71/71 | - |
| 29 | CLA | F | 311 | - | 1/1/11/20 | 3/15/93/115 | - |
| 39 | KC1 | D | 315 | - | - | 6/15/71/71 | - |
| 32 | BCR | a | 835 | - | - | 2/29/63/63 | 0/2/2/2 |
| 29 | CLA | b | 721 | - | 1/1/13/20 | 10/29/107/115 | - |
| 29 | CLA | b | 702 | - | 1/1/15/20 | 17/37/115/115 | - |
| 29 | CLA | C | 316 | - | 1/1/10/20 | 6/8/86/115 | - |
| 36 | DD6 | L | 305 | - | - | 4/26/80/80 | 0/3/3/3 |
| 29 | CLA | b | 706 | - | 1/1/15/20 | 11/37/115/115 | - |
| 29 | CLA | l | 502 | 10 | 1/1/15/20 | 13/37/115/115 | - |
| 29 | CLA | L | 310 | - | 1/1/13/20 | 9/25/103/115 | - |
| 39 | KC1 | K | 215 | - | - | 6/15/71/71 | - |
| 29 | CLA | D | 316 | - | 1/1/10/20 | 5/8/86/115 | - |
| 37 | PID | O | 301 | - | - | 3/24/93/93 | 0/4/4/4 |
| 29 | CLA | T | 309 | 25 | 1/1/11/20 | 4/15/93/115 | - |
| 29 | CLA | b | 723 | - | 1/1/15/20 | 5/37/115/115 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 36 | DD6 | F | 303 | - | - | 0/26/80/80 | 0/3/3/3 |
| 29 | CLA | a | 802 | - | 1/1/15/20 | 10/37/115/115 | - |
| 36 | DD6 | K | 221 | - | - | 5/26/80/80 | 0/3/3/3 |
| 29 | CLA | F | 312 | 16 | 1/1/11/20 | 5/15/93/115 | - |
| 37 | PID | D | 303 | - | - | 1/24/93/93 | 0/4/4/4 |
| 39 | KC1 | H | 309 | - | - | 8/15/71/71 | - |
| 36 | DD6 | G | 307 | - | - | 2/26/80/80 | 0/3/3/3 |
| 29 | CLA | A | 212 | - | 1/1/13/20 | 10/25/103/115 | - |
| 38 | UIX | L | 302 | - | - | 2/31/87/87 | 0/3/3/3 |
| 29 | CLA | T | 316 | - | 1/1/10/20 | 6/8/86/115 | - |
| 29 | CLA | b | 722 | - | 1/1/13/20 | 8/29/107/115 | - |
| 29 | CLA | b | 731 | - | 1/1/13/20 | 3/27/105/115 | - |
| 29 | CLA | K | 210 | - | 1/1/12/20 | 6/19/97/115 | - |
| 39 | KC1 | D | 310 | - | - | 5/15/71/71 | - |
| 36 | DD6 | J | 301 | - | - | 3/26/80/80 | 0/3/3/3 |
| 34 | LMG | K | 201 | - | - | 17/38/58/70 | 0/1/1/1 |
| 38 | UIX | N | 306 | - | - | 9/31/87/87 | 0/3/3/3 |
| 29 | CLA | F | 310 | - | 1/1/11/20 | 8/15/93/115 | - |
| 29 | CLA | I | 216 | - | 1/1/12/20 | 4/22/100/115 | - |
| 29 | CLA | K | 218 | - | 1/1/11/20 | 7/13/91/115 | - |
| 29 | CLA | L | 316 | - | 1/1/12/20 | 11/22/100/115 | - |
| 29 | CLA | b | 736 | - | 1/1/15/20 | 16/37/115/115 | - |
| 29 | CLA | a | 812 | - | 1/1/14/20 | 15/31/109/115 | - |
| 29 | CLA | A | 207 | - | 1/1/13/20 | 5/25/103/115 | - |
| 37 | PID | C | 307 | - | - | 2/24/93/93 | 0/4/4/4 |
| 29 | CLA | B | 309 | - | 1/1/13/20 | 6/25/103/115 | - |
| 29 | CLA | L | 313 | - | 1/1/12/20 | 8/23/101/115 | - |
| 34 | LMG | b | 734 | - | - | 10/35/55/70 | 0/1/1/1 |
| 29 | CLA | i | 203 | - | 1/1/13/20 | 12/25/103/115 | - |
| 29 | CLA | a | 822 | - | 1/1/15/20 | 8/37/115/115 | - |
| 29 | CLA | K | 207 | 15 | 1/1/11/20 | 6/18/96/115 | - |
| 37 | PID | F | 302 | - | - | 3/24/93/93 | 0/4/4/4 |
| 29 | CLA | C | 314 | - | 1/1/11/20 | 7/16/94/115 | - |
| 29 | CLA | J | 305 | - | 1/1/11/20 | 2/15/93/115 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 31 | LHG | a | 833 | - | - | 8/52/52/53 | - |
| 35 | DGD | b | 733 | - | - | 24/46/86/95 | 0/2/2/2 |
| 37 | PID | O | 304 | - | - | 3/24/93/93 | 0/4/4/4 |
| 29 | CLA | F | 315 | - | 1/1/10/20 | 3/8/86/115 | - |
| 29 | CLA | J | 306 | - | 1/1/15/20 | 17/37/115/115 | - |
| 39 | KC1 | H | 311 | - | - | 6/15/71/71 | - |
| 29 | CLA | D | 314 | - | 1/1/11/20 | 7/16/94/115 | - |
| 29 | CLA | N | 309 | - | 1/1/15/20 | 15/37/115/115 | - |
| 37 | PID | T | 307 | - | - | 4/24/93/93 | 0/4/4/4 |
| 29 | CLA | b | 725 | - | 1/1/15/20 | 9/37/115/115 | - |
| 29 | CLA | E | 315 | - | 1/1/13/20 | 6/28/106/115 | - |
| 29 | CLA | J | 308 | - | 1/1/13/20 | 8/27/105/115 | - |
| 36 | DD6 | G | 306 | - | - | 1/26/80/80 | 0/3/3/3 |
| 37 | PID | h | 204 | - | - | 2/24/93/93 | 1/4/4/4 |
| 29 | CLA | f | 802 | - | 1/1/11/20 | 4/15/93/115 | - |
| 29 | CLA | l | 503 | 10 | 1/1/15/20 | 15/37/115/115 | - |
| 29 | CLA | M | 311 | - | 1/1/11/20 | 8/15/93/115 | - |
| 36 | DD6 | F | 301 | - | - | 8/26/80/80 | 0/3/3/3 |
| 36 | DD6 | K | 206 | - | - | 1/26/80/80 | 0/3/3/3 |
| 29 | CLA | J | 313 | - | 1/1/10/20 | 2/8/86/115 | - |
| 38 | UIX | P | 207 | - | - | 6/31/87/87 | 0/3/3/3 |
| 29 | CLA | b | 720 | - | 1/1/15/20 | 15/37/115/115 | - |
| 29 | CLA | a | 814 | - | 1/1/11/20 | 6/15/93/115 | - |
| 37 | PID | N | 305 | - | - | 19/24/93/93 | 0/4/4/4 |
| 36 | DD6 | M | 303 | - | - | 6/26/80/80 | 0/3/3/3 |
| 29 | CLA | a | 803 | - | 1/1/15/20 | 8/37/115/115 | - |
| 38 | UIX | B | 304 | - | - | 2/31/87/87 | 0/3/3/3 |
| 37 | PID | O | 302 | - | - | 2/24/93/93 | 0/4/4/4 |
| 29 | CLA | J | 311 | - | 1/1/12/20 | 8/23/101/115 | - |
| 29 | CLA | l | 508 | - | 1/1/10/20 | 2/8/86/115 | - |
| 29 | CLA | N | 311 | - | 1/1/12/20 | 6/21/99/115 | - |
| 37 | PID | j | 101 | - | - | 2/24/93/93 | 0/4/4/4 |
| 36 | DD6 | A | 201 | - | - | 3/26/80/80 | 0/3/3/3 |
| 37 | PID | H | 302 | - | - | 2/24/93/93 | 0/4/4/4 |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 29 | CLA | b | 704 | - | 1/1/15/20 | 10/37/115/115 | - |
| 29 | CLA | b | 715 | - | 1/1/11/20 | 7/15/93/115 | - |
| 29 | CLA | l | 501 | - | 1/1/14/20 | 13/31/109/115 | - |
| 39 | KC1 | P | 211 | - | - | 7/15/71/71 | - |
| 29 | CLA | H | 308 | - | 1/1/15/20 | 9/37/115/115 | - |
| 36 | DD6 | O | 303 | - | - | 4/26/80/80 | 0/3/3/3 |
| 29 | CLA | E | 310 | 28 | 1/1/11/20 | 4/15/93/115 | - |
| 37 | PID | D | 306 | - | - | 3/24/93/93 | 0/4/4/4 |
| 29 | CLA | I | 214 | - | 1/1/13/20 | 5/25/103/115 | - |
| 29 | CLA | L | 315 | - | 1/1/10/20 | 4/8/86/115 | - |
| 39 | KC1 | O | 315 | - | - | 9/15/71/71 | - |
| 29 | CLA | B | 316 | - | 1/1/11/20 | 4/13/91/115 | - |
| 35 | DGD | j | 105 | - | - | 0/30/70/95 | 0/2/2/2 |
| 29 | CLA | A | 210 | 12 | 1/1/11/20 | 6/15/93/115 | - |
| 29 | CLA | G | 304 | - | 1/1/13/20 | 12/30/108/115 | - |
| 29 | CLA | K | 214 | - | 1/1/13/20 | 8/25/103/115 | - |
| 37 | PID | G | 303 | - | - | 6/24/93/93 | 0/4/4/4 |
| 29 | CLA | I | 209 | - | 1/1/14/20 | 14/31/109/115 | - |
| 29 | CLA | a | 813 | - | 1/1/12/20 | 10/21/99/115 | - |
| 32 | BCR | i | 204 | - | - | 4/29/63/63 | 0/2/2/2 |
| 29 | CLA | b | 726 | - | 1/1/15/20 | 6/37/115/115 | - |
| 36 | DD6 | L | 301 | - | - | 4/26/80/80 | 0/3/3/3 |
| 37 | PID | P | 202 | - | - | 4/24/93/93 | 0/4/4/4 |
| 37 | PID | Q | 304 | - | - | 2/24/93/93 | 0/4/4/4 |
| 29 | CLA | b | 711 | - | 1/1/13/20 | 11/29/107/115 | - |
| 29 | CLA | F | 316 | 16 | 1/1/10/20 | 4/8/86/115 | - |
| 29 | CLA | I | 213 | 14 | 1/1/15/20 | 13/37/115/115 | - |
| 29 | CLA | C | 308 | - | 1/1/11/20 | 7/16/94/115 | - |
| 29 | CLA | a | 831 | - | 1/1/15/20 | 14/37/115/115 | - |
| 29 | CLA | B | 314 | 21 | 1/1/10/20 | 6/8/86/115 | - |
| 29 | CLA | C | 309 | - | 1/1/15/20 | 10/37/115/115 | - |
| 36 | DD6 | A | 204 | - | - | 2/26/80/80 | 0/3/3/3 |
| 37 | PID | C | 304 | - | - | 3/24/93/93 | 0/4/4/4 |
| 29 | CLA | K | 208 | - | 1/1/11/20 | 5/15/93/115 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 29 | CLA | b | 707 | - | 1/1/15/20 | 11/37/115/115 | - |
| 29 | CLA | a | 805 | - | 1/1/13/20 | 6/25/103/115 | - |
| 29 | CLA | b | 703 | - | 1/1/15/20 | 13/37/115/115 | - |
| 29 | CLA | K | 213 | - | 1/1/11/20 | 5/17/95/115 | - |
| 34 | LMG | A | 219 | - | - | 17/32/52/70 | 0/1/1/1 |
| 29 | CLA | A | 216 | - | 1/1/10/20 | 0/8/86/115 | - |
| 29 | CLA | a | 830 | - | 1/1/13/20 | 5/27/105/115 | - |
| 29 | CLA | b | 718 | - | 1/1/15/20 | 14/37/115/115 | - |
| 37 | PID | Q | 303 | - | - | 0/24/93/93 | 0/4/4/4 |
| 29 | CLA | M | 315 | - | 1/1/11/20 | 5/15/93/115 | - |
| 36 | DD6 | M | 302 | - | - | 1/26/80/80 | 0/3/3/3 |
| 39 | KC1 | F | 309 | - | - | 7/15/71/71 | - |
| 29 | CLA | Q | 307 | - | 1/1/11/20 | 1/16/94/115 | - |
| 32 | BCR | a | 838 | - | - | 6/29/63/63 | 0/2/2/2 |
| 29 | CLA | P | 210 | - | 1/1/15/20 | 10/37/115/115 | - |
| 37 | PID | G | 309 | - | - | 2/24/93/93 | 0/4/4/4 |
| 39 | KC1 | I | 215 | 14 | - | 10/15/71/71 | - |
| 29 | CLA | L | 307 | 39 | 1/1/12/20 | 9/19/97/115 | - |
| 29 | CLA | b | 709 | - | 1/1/14/20 | 17/31/109/115 | - |
| 29 | CLA | l | 505 | - | 1/1/15/20 | 12/37/115/115 | - |
| 29 | CLA | P | 209 | - | 1/1/11/20 | 8/16/94/115 | - |
| 34 | LMG | E | 316 | - | - | 10/27/47/70 | 0/1/1/1 |
| 29 | CLA | G | 301 | - | 1/1/11/20 | 6/18/96/115 | - |
| 29 | CLA | I | 208 | - | 1/1/11/20 | 7/15/93/115 | - |
| 38 | UIX | A | 203 | - | - | 4/31/87/87 | 0/3/3/3 |
| 37 | PID | C | 301 | - | - | 4/24/93/93 | 0/4/4/4 |
| 29 | CLA | a | 828 | - | 1/1/11/20 | 8/15/93/115 | - |
| 29 | CLA | M | 313 | - | 1/1/10/20 | 2/8/86/115 | - |
| 32 | BCR | a | 834 | - | - | 0/29/63/63 | 0/2/2/2 |
| 29 | CLA | i | 201 | - | 1/1/15/20 | 16/37/115/115 | - |
| 38 | UIX | F | 305 | - | - | 12/31/87/87 | 0/3/3/3 |
| 29 | CLA | a | 826 | - | 1/1/15/20 | 10/37/115/115 | - |
| 29 | CLA | N | 308 | - | 1/1/11/20 | 7/16/94/115 | - |
| 29 | CLA | T | 313 | - | 1/1/11/20 | 7/15/93/115 | - |
| 37 | PID | P | 206 | - | - | 8/24/93/93 | 0/4/4/4 |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 37 | PID | T | 304 | - | - | 1/24/93/93 | 0/4/4/4 |
| 29 | CLA | b | 717 | - | 1/1/15/20 | 14/37/115/115 | - |
| 29 | CLA | a | 818 | - | 1/1/11/20 | 4/16/94/115 | - |
| 29 | CLA | a | 820 | - | 1/1/15/20 | 10/37/115/115 | - |
| 29 | CLA | a | 837 | - | 1/1/13/20 | 12/25/103/115 | - |
| 29 | CLA | a | 815 | - | 1/1/11/20 | 4/13/91/115 | - |
| 37 | PID | O | 307 | - | - | 4/24/93/93 | 0/4/4/4 |
| 29 | CLA | D | 311 | - | 1/1/11/20 | 12/15/93/115 | - |
| 39 | KC1 | M | 305 | - | - | 5/15/71/71 | - |
| 29 | CLA | a | 821 | - | 1/1/11/20 | 9/16/94/115 | - |
| 29 | CLA | M | 309 | - | 1/1/11/20 | 6/15/93/115 | - |
| 29 | CLA | Q | 312 | - | 1/1/11/20 | 3/15/93/115 | - |
| 29 | CLA | I | 201 | 29 | 1/1/11/20 | 4/13/91/115 | - |
| 39 | KC1 | T | 310 | - | - | 5/15/71/71 | - |
| 40 | SQD | B | 317 | - | - | 4/37/57/69 | 0/1/1/1 |
| 32 | BCR | b | 728 | - | - | 7/29/63/63 | 0/2/2/2 |
| 29 | CLA | P | 217 | - | 1/1/10/20 | 3/8/86/115 | - |
| 32 | BCR | f | 804 | - | - | 2/29/63/63 | 0/2/2/2 |
| 29 | CLA | L | 311 | 19 | 1/1/11/20 | 7/15/93/115 | - |
| 30 | PQN | b | 727 | - | - | 4/23/43/43 | 0/2/2/2 |
| 29 | CLA | A | 215 | - | 1/1/11/20 | 4/16/94/115 | - |
| 29 | CLA | b | 713 | - | 1/1/12/20 | 4/23/101/115 | - |
| 39 | KC1 | T | 315 | 25 | - | 5/15/71/71 | - |
| 29 | CLA | a | 824 | - | 1/1/15/20 | 9/37/115/115 | - |
| 29 | CLA | M | 310 | 18 | 1/1/11/20 | 5/17/95/115 | - |
| 29 | CLA | F | 313 | 16 | 1/1/11/20 | 6/15/93/115 | - |
| 29 | CLA | N | 313 | 23 | 1/1/11/20 | 9/15/93/115 | - |
| 36 | DD6 | Q | 302 | - | - | 1/26/80/80 | 0/3/3/3 |
| 29 | CLA | a | 808 | - | 1/1/12/20 | 4/21/99/115 | - |
| 29 | CLA | I | 212 | - | 1/1/13/20 | 10/25/103/115 | - |
| 36 | DD6 | B | 302 | - | - | 2/26/80/80 | 0/3/3/3 |
| 37 | PID | P | 203 | - | - | 3/24/93/93 | 0/4/4/4 |
| 29 | CLA | A | 218 | 12 | 1/1/14/20 | 10/31/109/115 | - |
| 36 | DD6 | E | 303 | - | - | 1/26/80/80 | 0/3/3/3 |
| 36 | DD6 | G | 305 | - | - | 7/26/80/80 | 0/3/3/3 |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 29 | CLA | G | 312 | 13 | 1/1/15/20 | 16/37/115/115 | - |
| 37 | PID | N | 302 | - | - | 2/24/93/93 | 0/4/4/4 |
| 36 | DD6 | B | 305 | - | - | 2/26/80/80 | 0/3/3/3 |
| 37 | PID | O | 305 | - | - | 7/24/93/93 | 0/4/4/4 |
| 29 | CLA | E | 314 | 28 | - | 5/17/95/115 | - |
| 36 | DD6 | C | 303 | - | - | 0/26/80/80 | 0/3/3/3 |
| 29 | CLA | b | 716 | - | 1/1/12/20 | 7/23/101/115 | - |
| 36 | DD6 | B | 319 | - | - | 9/26/80/80 | 0/3/3/3 |
| 37 | PID | D | 307 | - | - | 4/24/93/93 | 0/4/4/4 |
| 37 | PID | F | 306 | - | - | 0/24/93/93 | 0/4/4/4 |
| 29 | CLA | a | 810 | 1 | 1/1/13/20 | 10/25/103/115 | - |
| 36 | DD6 | M | 304 | - | - | 3/26/80/80 | 0/3/3/3 |
| 37 | PID | Q | 301 | - | - | 2/24/93/93 | 0/4/4/4 |
| 29 | CLA | a | 825 | - | 1/1/15/20 | 13/37/115/115 | - |
| 37 | PID | P | 205 | - | - | 1/24/93/93 | 0/4/4/4 |
| 29 | CLA | a | 811 | - | 1/1/13/20 | 6/27/105/115 | - |
| 37 | PID | F | 304 | - | - | 15/24/93/93 | 1/4/4/4 |
| 29 | CLA | H | 315 | - | 1/1/10/20 | 3/8/86/115 | - |
| 29 | CLA | P | 212 | - | 1/1/12/20 | 8/21/99/115 | - |
| 38 | UIX | J | 304 | - | - | 3/31/87/87 | 0/3/3/3 |
| 29 | CLA | b | 708 | 2 | 1/1/12/20 | 5/22/100/115 | - |
| 36 | DD6 | J | 302 | - | - | 2/26/80/80 | 0/3/3/3 |
| 29 | CLA | J | 309 | 17 | 1/1/11/20 | 5/15/93/115 | - |
| 35 | DGD | h | 203 | - | - | 8/43/83/95 | 0/2/2/2 |
| 29 | CLA | B | 306 | 21 | 1/1/11/20 | 5/18/96/115 | - |
| 29 | CLA | H | 310 | - | 1/1/12/20 | 9/21/99/115 | - |
| 29 | CLA | G | 311 | 13 | 1/1/12/20 | 7/21/99/115 | - |
| 29 | CLA | F | 307 | - | 1/1/11/20 | 2/15/93/115 | - |
| 29 | CLA | b | 724 | - | 1/1/11/20 | 2/16/94/115 | - |
| 29 | CLA | L | 317 | - | 1/1/11/20 | 5/15/93/115 | - |
| 37 | PID | Q | 306 | - | - | 3/24/93/93 | 0/4/4/4 |
| 29 | CLA | a | 804 | - | 1/1/13/20 | 1/25/103/115 | - |
| 30 | PQN | a | 832 | - | - | 6/23/43/43 | 0/2/2/2 |
| 39 | KC1 | B | 313 | 21 | - | 8/15/71/71 | - |
| 37 | PID | G | 310 | - | - | 2/24/93/93 | 0/4/4/4 |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 39 | KC1 | N | 310 | - | - | 6/15/71/71 | - |
| 34 | LMG | h | 205 | - | - | 3/23/43/70 | 0/1/1/1 |
| 29 | CLA | T | 314 | - | 1/1/11/20 | 7/16/94/115 | - |
| 29 | CLA | D | 308 | - | 1/1/11/20 | 5/16/94/115 | - |
| 35 | DGD | j | 106 | - | - | 16/38/78/95 | 0/2/2/2 |
| 34 | LMG | b | 732 | - | - | 20/39/59/70 | 0/1/1/1 |
| 39 | KC1 | Q | 314 | 26 | - | 8/15/71/71 | - |
| 39 | KC1 | Q | 309 | - | - | 7/15/71/71 | - |
| 39 | KC1 | P | 216 | - | - | 6/15/71/71 | - |
| 39 | KC1 | P | 213 | 27 | - | 5/15/71/71 | - |
| 35 | DGD | m | 102 | - | - | 8/55/95/95 | 0/2/2/2 |
| 29 | CLA | O | 309 | - | - | 10/37/115/115 | - |
| 29 | CLA | G | 317 | - | 1/1/12/20 | 8/23/101/115 | - |
| 29 | CLA | E | 309 | - | 1/1/11/20 | 8/15/93/115 | - |
| 29 | CLA | a | 816 | - | 1/1/11/20 | 8/15/93/115 | - |
| 29 | CLA | I | 211 | - | 1/1/15/20 | 8/37/115/115 | - |
| 29 | CLA | G | 319 | 13 | 1/1/10/20 | 3/8/86/115 | - |
| 29 | CLA | K | 212 | - | 1/1/12/20 | 5/22/100/115 | - |
| 37 | PID | H | 304 | - | - | 0/24/93/93 | 0/4/4/4 |
| 29 | CLA | Q | 310 | - | 1/1/15/20 | 13/37/115/115 | - |
| 29 | CLA | Q | 308 | - | 1/1/15/20 | 21/37/115/115 | - |
| 29 | CLA | Q | 313 | - | 1/1/11/20 | 6/16/94/115 | - |
| 39 | KC1 | N | 315 | - | - | 9/15/71/71 | - |
| 29 | CLA | H | 313 | - | 1/1/11/20 | 8/16/94/115 | - |
| 29 | CLA | O | 316 | - | 1/1/10/20 | 5/8/86/115 | - |
| 35 | DGD | G | 320 | - | - | 9/34/74/95 | 0/2/2/2 |
| 29 | CLA | K | 209 | - | 1/1/12/20 | 10/24/102/115 | - |
| 29 | CLA | N | 316 | - | 1/1/10/20 | 5/8/86/115 | - |
| 29 | CLA | A | 217 | - | 1/1/12/20 | 7/21/99/115 | - |
| 29 | CLA | O | 308 | - | 1/1/11/20 | 6/16/94/115 | - |
| 29 | CLA | b | 710 | - | 1/1/11/20 | 7/15/93/115 | - |
| 29 | CLA | a | 823 | - | 1/1/13/20 | 11/29/107/115 | - |
| 29 | CLA | l | 510 | - | 1/1/11/20 | 5/13/91/115 | - |
| 32 | BCR | b | 729 | - | - | 6/29/63/63 | 0/2/2/2 |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 37 | PID | C | 302 | - | - | 2/24/93/93 | 0/4/4/4 |
| 29 | CLA | E | 305 | - | 1/1/14/20 | 14/33/111/115 | - |
| 36 | DD6 | E | 302 | - | - | 2/26/80/80 | 0/3/3/3 |
| 38 | UIX | T | 306 | - | - | 4/31/87/87 | 0/3/3/3 |
| 39 | KC1 | C | 312 | - | - | 8/15/71/71 | - |
| 37 | PID | D | 302 | - | - | 1/24/93/93 | 0/4/4/4 |
| 37 | PID | N | 307 | - | - | 6/24/93/93 | 0/4/4/4 |
| 38 | UIX | C | 306 | - | - | 6/31/87/87 | 0/3/3/3 |
| 29 | CLA | I | 207 | 14 | 1/1/11/20 | 6/18/96/115 | - |
| 39 | KC1 | L | 314 | - | - | 7/15/71/71 | - |
| 29 | CLA | N | 314 | - | 1/1/11/20 | 7/16/94/115 | - |
| 29 | CLA | D | 309 | - | 1/1/11/20 | 2/15/93/115 | - |
| 35 | DGD | B | 318 | - | - | 9/34/74/95 | 0/2/2/2 |
| 29 | CLA | a | 817 | - | 1/1/11/20 | 4/13/91/115 | - |
| 29 | CLA | M | 307 | - | 1/1/13/20 | 6/25/103/115 | - |
| 36 | DD6 | D | 304 | - | - | 6/26/80/80 | 0/3/3/3 |
| 33 | SF4 | c | 102 | 3 | - | - | 0/6/5/5 |
| 29 | CLA | E | 306 | 28 | 1/1/15/20 | 14/37/115/115 | - |
| 39 | KC1 | E | 307 | - | - | 6/15/71/71 | - |
| 29 | CLA | L | 312 | - | 1/1/13/20 | 11/25/103/115 | - |
| 39 | KC1 | O | 312 | - | - | 4/15/71/71 | - |
| 29 | CLA | f | 805 | - | 1/1/14/20 | 10/31/109/115 | - |
| 36 | DD6 | A | 202 | - | - | 1/26/80/80 | 0/3/3/3 |
| 37 | PID | C | 305 | - | - | 9/24/93/93 | 0/4/4/4 |
| 29 | CLA | K | 217 | - | 1/1/11/20 | 4/15/93/115 | - |
| 36 | DD6 | I | 204 | - | - | 3/26/80/80 | 0/3/3/3 |
| 36 | DD6 | M | 301 | - | - | 2/26/80/80 | 0/3/3/3 |
| 39 | KC1 | G | 318 | - | - | 5/15/71/71 | - |
| 29 | CLA | E | 311 | - | 1/1/15/20 | 11/37/115/115 | - |
| 34 | LMG | K | 219 | - | - | 16/30/50/70 | 0/1/1/1 |
| 36 | DD6 | H | 303 | - | - | 1/26/80/80 | 0/3/3/3 |
| 37 | PID | T | 302 | - | - | 1/24/93/93 | 0/4/4/4 |
| 37 | PID | D | 305 | - | - | 5/24/93/93 | 0/4/4/4 |
| 29 | CLA | J | 307 | - | 1/1/11/20 | 3/15/93/115 | - |
| 29 | CLA | M | 306 | - | 1/1/12/20 | 6/23/101/115 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 29 | CLA | A | 214 | 12 | 1/1/10/20 | 4/8/86/115 | - |
| 29 | CLA | M | 308 | - | 1/1/11/20 | 9/17/95/115 | - |
| 29 | CLA | b | 714 | - | 1/1/14/20 | 6/36/114/115 | - |
| 36 | DD6 | P | 204 | - | - | 2/26/80/80 | 0/3/3/3 |
| 29 | CLA | L | 308 | - | 1/1/12/20 | 10/23/101/115 | - |
| 32 | BCR | f | 801 | - | - | 5/29/63/63 | 0/2/2/2 |
| 33 | SF4 | c | 101 | 3 | - | - | 0/6/5/5 |
| 36 | DD6 | L | 304 | - | - | 2/26/80/80 | 0/3/3/3 |
| 29 | CLA | O | 311 | - | 1/1/12/20 | 3/21/99/115 | - |
| 39 | KC1 | M | 312 | - | - | 6/15/71/71 | - |
| 29 | CLA | K | 211 | - | 1/1/13/20 | 7/25/103/115 | - |
| 38 | UIX | Q | 305 | - | - | 5/31/87/87 | 0/3/3/3 |
| 29 | CLA | B | 307 | - | 1/1/11/20 | 2/13/91/115 | - |
| 29 | CLA | G | 313 | - | 1/1/13/20 | 3/25/103/115 | - |
| 29 | CLA | I | 217 | - | 1/1/13/20 | 9/25/103/115 | - |
| 29 | CLA | j | 104 | 29 | 1/1/12/20 | 4/22/100/115 | - |
| 33 | SF4 | a | 836 | 2,1 | - | - | 0/6/5/5 |
| 39 | KC1 | T | 312 | - | - | 5/15/71/71 | - |
| 29 | CLA | O | 313 | 24 | 1/1/11/20 | 5/15/93/115 | - |
| 29 | CLA | C | 311 | - | 1/1/12/20 | 7/21/99/115 | - |
| 36 | DD6 | B | 301 | - | - | 4/24/78/80 | 0/3/3/3 |
| 29 | CLA | i | 202 | - | 1/1/15/20 | 12/37/115/115 | - |
| 39 | KC1 | J | 312 | 17 | - | 5/15/71/71 | - |
| 36 | DD6 | L | 303 | - | - | 0/26/80/80 | 0/3/3/3 |
| 37 | PID | H | 301 | - | - | 2/24/93/93 | 0/4/4/4 |
| 29 | CLA | b | 705 | - | 1/1/15/20 | 12/37/115/115 | - |
| 36 | DD6 | I | 203 | - | - | 7/26/80/80 | 0/3/3/3 |
| 29 | CLA | Q | 315 | - | 1/1/10/20 | 6/8/86/115 | - |
| 37 | PID | T | 301 | - | - | 2/24/93/93 | 0/4/4/4 |
| 34 | LMG | b | 730 | - | - | 19/41/61/70 | 0/1/1/1 |
| 37 | PID | H | 305 | - | - | 3/24/93/93 | 0/4/4/4 |
| 37 | PID | E | 301 | - | - | 6/24/93/93 | 0/4/4/4 |
| 29 | CLA | l | 504 | - | 1/1/15/20 | 10/37/115/115 | - |
| 34 | LMG | K | 220 | - | - | 13/31/51/70 | 0/1/1/1 |
| 29 | CLA | T | 311 | - | 1/1/11/20 | 10/15/93/115 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 36 | DD6 | K | 203 | - | - | 6/26/80/80 | 0/3/3/3 |
| 29 | CLA | B | 308 | - | 1/1/15/20 | 13/37/115/115 | - |
| 35 | DGD | j | 103 | - | - | 10/32/72/95 | 0/2/2/2 |
| 37 | PID | H | 306 | - | - | 4/24/93/93 | 0/4/4/4 |
| 34 | LMG | P | 201 | - | - | 6/22/42/70 | 0/1/1/1 |
| 29 | CLA | D | 312 | 20 | 1/1/11/20 | 5/15/93/115 | - |
| 39 | KC1 | N | 312 | 23 | - | 6/15/71/71 | - |
| 39 | KC1 | F | 314 | - | - | 6/15/71/71 | - |
| 36 | DD6 | D | 301 | - | - | 8/26/80/80 | 0/3/3/3 |
| 36 | DD6 | K | 202 | - | - | 8/26/80/80 | 0/3/3/3 |
| 36 | DD6 | T | 303 | - | - | 7/26/80/80 | 0/3/3/3 |
| 36 | DD6 | K | 205 | - | - | 1/26/80/80 | 0/3/3/3 |
| 38 | UIX | O | 306 | - | - | 6/31/87/87 | 0/3/3/3 |
| 29 | CLA | H | 307 | - | 1/1/11/20 | 5/16/94/115 | - |
| 29 | CLA | a | 819 | - | 1/1/13/20 | 6/28/106/115 | - |
| 37 | PID | N | 304 | - | - | 1/24/93/93 | 0/4/4/4 |
| 29 | CLA | A | 211 | - | 1/1/13/20 | 5/25/103/115 | - |
| 29 | CLA | J | 310 | - | 1/1/11/20 | 6/16/94/115 | - |
| 40 | SQD | J | 314 | - | - | 9/40/60/69 | 0/1/1/1 |
| 29 | CLA | E | 313 | - | 1/1/10/20 | 2/8/86/115 | - |
| 39 | KC1 | L | 306 | 29 | - | 5/15/71/71 | - |
| 36 | DD6 | K | 204 | - | - | 5/26/80/80 | 0/3/3/3 |
| 34 | LMG | j | 102 | - | - | 24/38/58/70 | 0/1/1/1 |
| 29 | CLA | B | 311 | 21 | 1/1/12/20 | 4/21/99/115 | - |
| 39 | KC1 | Q | 311 | - | - | 6/15/71/71 | - |
| 36 | DD6 | m | 101 | - | - | 1/26/80/80 | 0/3/3/3 |
| 29 | CLA | b | 712 | - | 1/1/15/20 | 12/37/115/115 | - |

All (2170) bond length outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 36 | G | 307 | DD6 | C29-C27 | -9.45 | 1.24 | 1.42 |
| 36 | I | 203 | DD6 | C29-C27 | -9.14 | 1.25 | 1.42 |
| 36 | K | 202 | DD6 | C29-C27 | -9.12 | 1.25 | 1.42 |
| 36 | G | 306 | DD6 | C29-C27 | -9.01 | 1.25 | 1.42 |
| 36 | K | 221 | DD6 | C29-C27 | -8.93 | 1.25 | 1.42 |
| 36 | G | 305 | DD6 | C29-C27 | -8.85 | 1.25 | 1.42 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 36 | J | 302 | DD6 | C29-C27 | -8.85 | 1.25 | 1.42 |
| 36 | B | 302 | DD6 | C29-C27 | -8.84 | 1.25 | 1.42 |
| 36 | J | 303 | DD6 | C29-C27 | -8.82 | 1.25 | 1.42 |
| 36 | I | 204 | DD6 | C29-C27 | -8.81 | 1.25 | 1.42 |
| 36 | D | 301 | DD6 | C29-C27 | -8.80 | 1.25 | 1.42 |
| 36 | E | 302 | DD6 | C29-C27 | -8.79 | 1.25 | 1.42 |
| 36 | B | 319 | DD6 | C29-C27 | -8.78 | 1.25 | 1.42 |
| 36 | M | 302 | DD6 | C29-C27 | -8.77 | 1.25 | 1.42 |
| 36 | K | 206 | DD6 | C29-C27 | -8.77 | 1.25 | 1.42 |
| 36 | M | 303 | DD6 | C29-C27 | -8.77 | 1.25 | 1.42 |
| 36 | I | 205 | DD6 | C29-C27 | -8.76 | 1.25 | 1.42 |
| 36 | L | 305 | DD6 | C29-C27 | -8.75 | 1.25 | 1.42 |
| 36 | M | 304 | DD6 | C29-C27 | -8.75 | 1.25 | 1.42 |
| 36 | I | 206 | DD6 | C29-C27 | -8.74 | 1.25 | 1.42 |
| 36 | L | 303 | DD6 | C29-C27 | -8.73 | 1.25 | 1.42 |
| 36 | F | 303 | DD6 | C29-C27 | -8.72 | 1.25 | 1.42 |
| 36 | F | 301 | DD6 | C29-C27 | -8.72 | 1.25 | 1.42 |
| 36 | m | 101 | DD6 | C29-C27 | -8.71 | 1.25 | 1.42 |
| 36 | K | 204 | DD6 | C29-C27 | -8.71 | 1.25 | 1.42 |
| 36 | J | 301 | DD6 | C29-C27 | -8.69 | 1.25 | 1.42 |
| 36 | K | 205 | DD6 | C29-C27 | -8.68 | 1.25 | 1.42 |
| 36 | B | 303 | DD6 | C29-C27 | -8.66 | 1.25 | 1.42 |
| 36 | B | 305 | DD6 | C29-C27 | -8.66 | 1.25 | 1.42 |
| 36 | I | 202 | DD6 | C29-C27 | -8.65 | 1.25 | 1.42 |
| 36 | A | 204 | DD6 | C29-C27 | -8.65 | 1.25 | 1.42 |
| 36 | h | 202 | DD6 | C29-C27 | -8.64 | 1.25 | 1.42 |
| 36 | D | 304 | DD6 | C29-C27 | -8.64 | 1.25 | 1.42 |
| 36 | K | 203 | DD6 | C29-C27 | -8.63 | 1.25 | 1.42 |
| 36 | C | 303 | DD6 | C29-C27 | -8.63 | 1.25 | 1.42 |
| 36 | G | 307 | DD6 | C30-C31 | -8.59 | 1.24 | 1.42 |
| 36 | L | 304 | DD6 | C29-C27 | -8.58 | 1.26 | 1.42 |
| 36 | A | 201 | DD6 | C29-C27 | -8.58 | 1.26 | 1.42 |
| 36 | B | 301 | DD6 | C29-C27 | -8.58 | 1.26 | 1.42 |
| 36 | G | 308 | DD6 | C29-C27 | -8.57 | 1.26 | 1.42 |
| 36 | E | 303 | DD6 | C29-C27 | -8.56 | 1.26 | 1.42 |
| 36 | O | 303 | DD6 | C29-C27 | -8.54 | 1.26 | 1.42 |
| 36 | L | 301 | DD6 | C29-C27 | -8.52 | 1.26 | 1.42 |
| 36 | P | 204 | DD6 | C29-C27 | -8.49 | 1.26 | 1.42 |
| 36 | Q | 302 | DD6 | C29-C27 | -8.48 | 1.26 | 1.42 |
| 36 | T | 303 | DD6 | C29-C27 | -8.48 | 1.26 | 1.42 |
| 36 | A | 202 | DD6 | C29-C27 | -8.43 | 1.26 | 1.42 |
| 36 | M | 301 | DD6 | C29-C27 | -8.41 | 1.26 | 1.42 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 36 | I | 203 | DD6 | C30-C31 | -8.37 | 1.24 | 1.42 |
| 36 | N | 303 | DD6 | C29-C27 | -8.33 | 1.26 | 1.42 |
| 36 | H | 303 | DD6 | C29-C27 | -8.32 | 1.26 | 1.42 |
| 36 | G | 305 | DD6 | C30-C31 | -8.16 | 1.25 | 1.42 |
| 36 | K | 202 | DD6 | C30-C31 | -8.15 | 1.25 | 1.42 |
| 36 | J | 303 | DD6 | C30-C31 | -8.10 | 1.25 | 1.42 |
| 36 | J | 302 | DD6 | C30-C31 | -8.08 | 1.25 | 1.42 |
| 36 | E | 302 | DD6 | C30-C31 | -8.06 | 1.25 | 1.42 |
| 36 | K | 221 | DD6 | C30-C31 | -8.04 | 1.25 | 1.42 |
| 36 | h | 202 | DD6 | C30-C31 | -8.04 | 1.25 | 1.42 |
| 36 | F | 301 | DD6 | C30-C31 | -8.03 | 1.25 | 1.42 |
| 36 | I | 204 | DD6 | C30-C31 | -8.03 | 1.25 | 1.42 |
| 36 | G | 306 | DD6 | C30-C31 | -8.00 | 1.25 | 1.42 |
| 36 | M | 302 | DD6 | C30-C31 | -7.99 | 1.25 | 1.42 |
| 36 | K | 204 | DD6 | C30-C31 | -7.98 | 1.25 | 1.42 |
| 36 | M | 303 | DD6 | C30-C31 | -7.98 | 1.25 | 1.42 |
| 36 | B | 319 | DD6 | C30-C31 | -7.97 | 1.25 | 1.42 |
| 36 | L | 303 | DD6 | C30-C31 | -7.97 | 1.25 | 1.42 |
| 36 | C | 303 | DD6 | C30-C31 | -7.95 | 1.25 | 1.42 |
| 36 | F | 303 | DD6 | C30-C31 | -7.94 | 1.25 | 1.42 |
| 36 | K | 206 | DD6 | C30-C31 | -7.94 | 1.25 | 1.42 |
| 36 | L | 305 | DD6 | C30-C31 | -7.94 | 1.25 | 1.42 |
| 36 | I | 205 | DD6 | C30-C31 | -7.91 | 1.25 | 1.42 |
| 36 | K | 205 | DD6 | C30-C31 | -7.91 | 1.25 | 1.42 |
| 36 | K | 203 | DD6 | C30-C31 | -7.89 | 1.25 | 1.42 |
| 36 | m | 101 | DD6 | C30-C31 | -7.88 | 1.25 | 1.42 |
| 36 | B | 302 | DD6 | C30-C31 | -7.87 | 1.25 | 1.42 |
| 36 | D | 304 | DD6 | C30-C31 | -7.87 | 1.25 | 1.42 |
| 36 | M | 304 | DD6 | C30-C31 | -7.86 | 1.25 | 1.42 |
| 36 | B | 303 | DD6 | C30-C31 | -7.86 | 1.26 | 1.42 |
| 36 | J | 301 | DD6 | C30-C31 | -7.85 | 1.26 | 1.42 |
| 36 | G | 308 | DD6 | C30-C31 | -7.85 | 1.26 | 1.42 |
| 36 | O | 303 | DD6 | C30-C31 | -7.83 | 1.26 | 1.42 |
| 36 | B | 305 | DD6 | C30-C31 | -7.82 | 1.26 | 1.42 |
| 36 | I | 206 | DD6 | C30-C31 | -7.80 | 1.26 | 1.42 |
| 36 | A | 204 | DD6 | C30-C31 | -7.79 | 1.26 | 1.42 |
| 36 | A | 201 | DD6 | C30-C31 | -7.79 | 1.26 | 1.42 |
| 36 | D | 301 | DD6 | C30-C31 | -7.78 | 1.26 | 1.42 |
| 36 | E | 303 | DD6 | C30-C31 | -7.78 | 1.26 | 1.42 |
| 36 | L | 301 | DD6 | C30-C31 | -7.75 | 1.26 | 1.42 |
| 36 | M | 301 | DD6 | C30-C31 | -7.73 | 1.26 | 1.42 |
| 36 | B | 301 | DD6 | C30-C31 | -7.72 | 1.26 | 1.42 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 29 | P | 215 | CLA | C4B-NB | 7.71 | 1.42 | 1.35 |
| 36 | P | 204 | DD6 | C30-C31 | -7.70 | 1.26 | 1.42 |
| 36 | I | 202 | DD6 | C30-C31 | -7.70 | 1.26 | 1.42 |
| 36 | Q | 302 | DD6 | C30-C31 | -7.68 | 1.26 | 1.42 |
| 29 | L | 316 | CLA | C4B-NB | 7.66 | 1.42 | 1.35 |
| 36 | L | 304 | DD6 | C30-C31 | -7.66 | 1.26 | 1.42 |
| 36 | T | 303 | DD6 | C30-C31 | -7.65 | 1.26 | 1.42 |
| 29 | L | 315 | CLA | C4B-NB | 7.59 | 1.42 | 1.35 |
| 29 | O | 308 | CLA | C4B-NB | 7.59 | 1.42 | 1.35 |
| 36 | N | 303 | DD6 | C30-C31 | -7.58 | 1.26 | 1.42 |
| 29 | a | 804 | CLA | C4B-NB | 7.58 | 1.42 | 1.35 |
| 36 | A | 202 | DD6 | C30-C31 | -7.58 | 1.26 | 1.42 |
| 29 | H | 313 | CLA | C4B-NB | 7.57 | 1.42 | 1.35 |
| 29 | P | 214 | CLA | C4B-NB | 7.57 | 1.42 | 1.35 |
| 29 | E | 309 | CLA | C4B-NB | 7.55 | 1.41 | 1.35 |
| 29 | O | 309 | CLA | C4B-NB | 7.54 | 1.41 | 1.35 |
| 29 | I | 510 | CLA | C4B-NB | 7.54 | 1.41 | 1.35 |
| 29 | O | 314 | CLA | C4B-NB | 7.54 | 1.41 | 1.35 |
| 29 | C | 314 | CLA | C4B-NB | 7.54 | 1.41 | 1.35 |
| 29 | P | 209 | CLA | C4B-NB | 7.53 | 1.41 | 1.35 |
| 29 | O | 316 | CLA | C4B-NB | 7.53 | 1.41 | 1.35 |
| 29 | H | 310 | CLA | C4B-NB | 7.53 | 1.41 | 1.35 |
| 29 | a | 817 | CLA | C4B-NB | 7.52 | 1.41 | 1.35 |
| 29 | N | 308 | CLA | C4B-NB | 7.52 | 1.41 | 1.35 |
| 36 | H | 303 | DD6 | C30-C31 | -7.51 | 1.26 | 1.42 |
| 29 | T | 308 | CLA | C4B-NB | 7.50 | 1.41 | 1.35 |
| 29 | H | 315 | CLA | C4B-NB | 7.49 | 1.41 | 1.35 |
| 29 | N | 309 | CLA | C4B-NB | 7.48 | 1.41 | 1.35 |
| 29 | a | 813 | CLA | C4B-NB | 7.48 | 1.41 | 1.35 |
| 29 | N | 316 | CLA | C4B-NB | 7.47 | 1.41 | 1.35 |
| 29 | K | 218 | CLA | C4B-NB | 7.46 | 1.41 | 1.35 |
| 29 | a | 811 | CLA | C4B-NB | 7.46 | 1.41 | 1.35 |
| 29 | b | 713 | CLA | C4B-NB | 7.46 | 1.41 | 1.35 |
| 29 | E | 315 | CLA | C4B-NB | 7.46 | 1.41 | 1.35 |
| 29 | a | 818 | CLA | C4B-NB | 7.45 | 1.41 | 1.35 |
| 29 | Q | 307 | CLA | C4B-NB | 7.45 | 1.41 | 1.35 |
| 29 | K | 212 | CLA | C4B-NB | 7.45 | 1.41 | 1.35 |
| 29 | T | 316 | CLA | C4B-NB | 7.45 | 1.41 | 1.35 |
| 29 | H | 307 | CLA | C4B-NB | 7.45 | 1.41 | 1.35 |
| 29 | D | 308 | CLA | C4B-NB | 7.44 | 1.41 | 1.35 |
| 29 | b | 720 | CLA | C4B-NB | 7.44 | 1.41 | 1.35 |
| 29 | I | 217 | CLA | C4B-NB | 7.44 | 1.41 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|--------|------|-------------|----------|
| 29 | T | 313 | CLA | C4B-NB | 7.43 | 1.41 | 1.35 |
| 29 | F | 315 | CLA | C4B-NB | 7.43 | 1.41 | 1.35 |
| 29 | E | 313 | CLA | C4B-NB | 7.43 | 1.41 | 1.35 |
| 29 | F | 307 | CLA | C4B-NB | 7.43 | 1.41 | 1.35 |
| 29 | K | 208 | CLA | C4B-NB | 7.42 | 1.41 | 1.35 |
| 29 | T | 314 | CLA | C4B-NB | 7.42 | 1.41 | 1.35 |
| 29 | P | 212 | CLA | C4B-NB | 7.42 | 1.41 | 1.35 |
| 29 | J | 305 | CLA | C4B-NB | 7.41 | 1.41 | 1.35 |
| 29 | D | 316 | CLA | C4B-NB | 7.41 | 1.41 | 1.35 |
| 29 | M | 313 | CLA | C4B-NB | 7.41 | 1.41 | 1.35 |
| 29 | K | 217 | CLA | C4B-NB | 7.41 | 1.41 | 1.35 |
| 29 | a | 828 | CLA | C4B-NB | 7.41 | 1.41 | 1.35 |
| 29 | Q | 315 | CLA | C4B-NB | 7.40 | 1.41 | 1.35 |
| 29 | C | 308 | CLA | C4B-NB | 7.40 | 1.41 | 1.35 |
| 29 | I | 509 | CLA | C4B-NB | 7.40 | 1.41 | 1.35 |
| 29 | L | 311 | CLA | C4B-NB | 7.39 | 1.41 | 1.35 |
| 29 | N | 313 | CLA | C4B-NB | 7.39 | 1.41 | 1.35 |
| 29 | O | 311 | CLA | C4B-NB | 7.38 | 1.41 | 1.35 |
| 29 | b | 708 | CLA | C4B-NB | 7.37 | 1.41 | 1.35 |
| 29 | M | 311 | CLA | C4B-NB | 7.37 | 1.41 | 1.35 |
| 29 | A | 214 | CLA | C4B-NB | 7.37 | 1.41 | 1.35 |
| 29 | a | 821 | CLA | C4B-NB | 7.37 | 1.41 | 1.35 |
| 29 | B | 307 | CLA | C4B-NB | 7.37 | 1.41 | 1.35 |
| 29 | Q | 308 | CLA | C4B-NB | 7.37 | 1.41 | 1.35 |
| 29 | D | 312 | CLA | C4B-NB | 7.36 | 1.41 | 1.35 |
| 29 | T | 309 | CLA | C4B-NB | 7.36 | 1.41 | 1.35 |
| 29 | J | 313 | CLA | C4B-NB | 7.36 | 1.41 | 1.35 |
| 29 | G | 316 | CLA | C4B-NB | 7.36 | 1.41 | 1.35 |
| 29 | P | 217 | CLA | C4B-NB | 7.36 | 1.41 | 1.35 |
| 29 | N | 314 | CLA | C4B-NB | 7.35 | 1.41 | 1.35 |
| 29 | T | 311 | CLA | C4B-NB | 7.35 | 1.41 | 1.35 |
| 29 | L | 307 | CLA | C4B-NB | 7.35 | 1.41 | 1.35 |
| 29 | K | 207 | CLA | C4B-NB | 7.34 | 1.41 | 1.35 |
| 29 | G | 301 | CLA | C4B-NB | 7.34 | 1.41 | 1.35 |
| 29 | M | 309 | CLA | C4B-NB | 7.34 | 1.41 | 1.35 |
| 30 | b | 727 | PQN | C3-C2 | 7.34 | 1.48 | 1.35 |
| 29 | b | 710 | CLA | C4B-NB | 7.33 | 1.41 | 1.35 |
| 29 | N | 311 | CLA | C4B-NB | 7.33 | 1.41 | 1.35 |
| 29 | F | 316 | CLA | C4B-NB | 7.33 | 1.41 | 1.35 |
| 29 | L | 317 | CLA | C4B-NB | 7.33 | 1.41 | 1.35 |
| 29 | B | 316 | CLA | C4B-NB | 7.33 | 1.41 | 1.35 |
| 29 | f | 805 | CLA | C4B-NB | 7.32 | 1.41 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|--------|------|-------------|----------|
| 29 | M | 310 | CLA | C4B-NB | 7.32 | 1.41 | 1.35 |
| 29 | b | 707 | CLA | C4B-NB | 7.32 | 1.41 | 1.35 |
| 29 | A | 210 | CLA | C4B-NB | 7.31 | 1.41 | 1.35 |
| 29 | A | 217 | CLA | C4B-NB | 7.31 | 1.41 | 1.35 |
| 29 | I | 207 | CLA | C4B-NB | 7.31 | 1.41 | 1.35 |
| 29 | l | 501 | CLA | C4B-NB | 7.31 | 1.41 | 1.35 |
| 29 | E | 305 | CLA | C4B-NB | 7.31 | 1.41 | 1.35 |
| 29 | I | 212 | CLA | C4B-NB | 7.30 | 1.41 | 1.35 |
| 29 | b | 703 | CLA | C4B-NB | 7.30 | 1.41 | 1.35 |
| 29 | M | 315 | CLA | C4B-NB | 7.30 | 1.41 | 1.35 |
| 29 | a | 807 | CLA | C4B-NB | 7.30 | 1.41 | 1.35 |
| 29 | a | 810 | CLA | C4B-NB | 7.29 | 1.41 | 1.35 |
| 29 | B | 306 | CLA | C4B-NB | 7.29 | 1.41 | 1.35 |
| 29 | l | 508 | CLA | C4B-NB | 7.29 | 1.41 | 1.35 |
| 29 | a | 825 | CLA | C4B-NB | 7.29 | 1.41 | 1.35 |
| 29 | a | 803 | CLA | C4B-NB | 7.29 | 1.41 | 1.35 |
| 29 | G | 304 | CLA | C4B-NB | 7.28 | 1.41 | 1.35 |
| 29 | D | 309 | CLA | C4B-NB | 7.28 | 1.41 | 1.35 |
| 29 | a | 837 | CLA | C4B-NB | 7.28 | 1.41 | 1.35 |
| 29 | D | 314 | CLA | C4B-NB | 7.28 | 1.41 | 1.35 |
| 29 | E | 308 | CLA | C4B-NB | 7.28 | 1.41 | 1.35 |
| 29 | E | 314 | CLA | C4B-NB | 7.28 | 1.41 | 1.35 |
| 29 | A | 216 | CLA | C4B-NB | 7.28 | 1.41 | 1.35 |
| 29 | M | 308 | CLA | C4B-NB | 7.28 | 1.41 | 1.35 |
| 30 | a | 832 | PQN | C3-C2 | 7.27 | 1.48 | 1.35 |
| 29 | b | 706 | CLA | C4B-NB | 7.27 | 1.41 | 1.35 |
| 29 | I | 201 | CLA | C4B-NB | 7.27 | 1.41 | 1.35 |
| 29 | O | 313 | CLA | C4B-NB | 7.27 | 1.41 | 1.35 |
| 29 | I | 216 | CLA | C4B-NB | 7.27 | 1.41 | 1.35 |
| 29 | B | 315 | CLA | C4B-NB | 7.27 | 1.41 | 1.35 |
| 29 | Q | 310 | CLA | C4B-NB | 7.26 | 1.41 | 1.35 |
| 29 | b | 724 | CLA | C4B-NB | 7.26 | 1.41 | 1.35 |
| 29 | A | 206 | CLA | C4B-NB | 7.26 | 1.41 | 1.35 |
| 29 | H | 308 | CLA | C4B-NB | 7.26 | 1.41 | 1.35 |
| 29 | j | 104 | CLA | C4B-NB | 7.26 | 1.41 | 1.35 |
| 29 | A | 207 | CLA | C4B-NB | 7.26 | 1.41 | 1.35 |
| 29 | I | 213 | CLA | C4B-NB | 7.26 | 1.41 | 1.35 |
| 29 | E | 306 | CLA | C4B-NB | 7.26 | 1.41 | 1.35 |
| 29 | H | 312 | CLA | C4B-NB | 7.25 | 1.41 | 1.35 |
| 29 | b | 736 | CLA | C4B-NB | 7.25 | 1.41 | 1.35 |
| 29 | C | 316 | CLA | C4B-NB | 7.25 | 1.41 | 1.35 |
| 29 | b | 719 | CLA | C4B-NB | 7.25 | 1.41 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|--------|------|-------------|----------|
| 29 | a | 815 | CLA | C4B-NB | 7.24 | 1.41 | 1.35 |
| 29 | a | 816 | CLA | C4B-NB | 7.24 | 1.41 | 1.35 |
| 29 | C | 309 | CLA | C4B-NB | 7.24 | 1.41 | 1.35 |
| 29 | Q | 313 | CLA | C4B-NB | 7.24 | 1.41 | 1.35 |
| 29 | A | 215 | CLA | C4B-NB | 7.24 | 1.41 | 1.35 |
| 29 | Q | 312 | CLA | C4B-NB | 7.24 | 1.41 | 1.35 |
| 29 | b | 712 | CLA | C4B-NB | 7.24 | 1.41 | 1.35 |
| 29 | K | 213 | CLA | C4B-NB | 7.23 | 1.41 | 1.35 |
| 29 | a | 814 | CLA | C4B-NB | 7.23 | 1.41 | 1.35 |
| 29 | P | 210 | CLA | C4B-NB | 7.22 | 1.41 | 1.35 |
| 29 | f | 802 | CLA | C4B-NB | 7.22 | 1.41 | 1.35 |
| 29 | b | 726 | CLA | C4B-NB | 7.22 | 1.41 | 1.35 |
| 29 | F | 311 | CLA | C4B-NB | 7.22 | 1.41 | 1.35 |
| 29 | M | 314 | CLA | C4B-NB | 7.22 | 1.41 | 1.35 |
| 29 | F | 308 | CLA | C4B-NB | 7.22 | 1.41 | 1.35 |
| 29 | C | 313 | CLA | C4B-NB | 7.22 | 1.41 | 1.35 |
| 29 | a | 819 | CLA | C4B-NB | 7.21 | 1.41 | 1.35 |
| 29 | b | 717 | CLA | C4B-NB | 7.21 | 1.41 | 1.35 |
| 29 | l | 505 | CLA | C4B-NB | 7.21 | 1.41 | 1.35 |
| 29 | l | 503 | CLA | C4B-NB | 7.20 | 1.41 | 1.35 |
| 29 | a | 812 | CLA | C4B-NB | 7.20 | 1.41 | 1.35 |
| 29 | L | 310 | CLA | C4B-NB | 7.20 | 1.41 | 1.35 |
| 29 | B | 311 | CLA | C4B-NB | 7.20 | 1.41 | 1.35 |
| 29 | b | 709 | CLA | C4B-NB | 7.20 | 1.41 | 1.35 |
| 29 | a | 826 | CLA | C4B-NB | 7.19 | 1.41 | 1.35 |
| 29 | L | 309 | CLA | C4B-NB | 7.19 | 1.41 | 1.35 |
| 29 | b | 715 | CLA | C4B-NB | 7.19 | 1.41 | 1.35 |
| 29 | E | 310 | CLA | C4B-NB | 7.18 | 1.41 | 1.35 |
| 29 | a | 827 | CLA | C4B-NB | 7.18 | 1.41 | 1.35 |
| 29 | I | 208 | CLA | C4B-NB | 7.18 | 1.41 | 1.35 |
| 29 | J | 311 | CLA | C4B-NB | 7.18 | 1.41 | 1.35 |
| 29 | a | 802 | CLA | C4B-NB | 7.18 | 1.41 | 1.35 |
| 29 | a | 805 | CLA | C4B-NB | 7.18 | 1.41 | 1.35 |
| 29 | G | 302 | CLA | C4B-NB | 7.17 | 1.41 | 1.35 |
| 29 | M | 307 | CLA | C4B-NB | 7.17 | 1.41 | 1.35 |
| 29 | F | 313 | CLA | C4B-NB | 7.17 | 1.41 | 1.35 |
| 29 | A | 209 | CLA | C4B-NB | 7.16 | 1.41 | 1.35 |
| 29 | K | 216 | CLA | C4B-NB | 7.16 | 1.41 | 1.35 |
| 29 | l | 504 | CLA | C4B-NB | 7.16 | 1.41 | 1.35 |
| 29 | B | 314 | CLA | C4B-NB | 7.15 | 1.41 | 1.35 |
| 29 | B | 310 | CLA | C4B-NB | 7.15 | 1.41 | 1.35 |
| 29 | C | 311 | CLA | C4B-NB | 7.15 | 1.41 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|--------|------|-------------|----------|
| 29 | A | 218 | CLA | C4B-NB | 7.15 | 1.41 | 1.35 |
| 29 | D | 313 | CLA | C4B-NB | 7.15 | 1.41 | 1.35 |
| 29 | f | 803 | CLA | C4B-NB | 7.15 | 1.41 | 1.35 |
| 29 | a | 808 | CLA | C4B-NB | 7.15 | 1.41 | 1.35 |
| 29 | B | 308 | CLA | C4B-NB | 7.15 | 1.41 | 1.35 |
| 29 | b | 702 | CLA | C4B-NB | 7.14 | 1.41 | 1.35 |
| 29 | a | 831 | CLA | C4B-NB | 7.14 | 1.41 | 1.35 |
| 29 | b | 716 | CLA | C4B-NB | 7.14 | 1.41 | 1.35 |
| 29 | K | 214 | CLA | C4B-NB | 7.13 | 1.41 | 1.35 |
| 29 | J | 310 | CLA | C4B-NB | 7.13 | 1.41 | 1.35 |
| 29 | M | 306 | CLA | C4B-NB | 7.13 | 1.41 | 1.35 |
| 29 | b | 718 | CLA | C4B-NB | 7.13 | 1.41 | 1.35 |
| 29 | a | 829 | CLA | C4B-NB | 7.12 | 1.41 | 1.35 |
| 29 | D | 311 | CLA | C4B-NB | 7.12 | 1.41 | 1.35 |
| 29 | K | 209 | CLA | C4B-NB | 7.12 | 1.41 | 1.35 |
| 29 | K | 210 | CLA | C4B-NB | 7.12 | 1.41 | 1.35 |
| 29 | a | 824 | CLA | C4B-NB | 7.12 | 1.41 | 1.35 |
| 29 | b | 714 | CLA | C4B-NB | 7.11 | 1.41 | 1.35 |
| 29 | G | 317 | CLA | C4B-NB | 7.11 | 1.41 | 1.35 |
| 29 | b | 723 | CLA | C4B-NB | 7.11 | 1.41 | 1.35 |
| 29 | l | 502 | CLA | C4B-NB | 7.11 | 1.41 | 1.35 |
| 29 | F | 312 | CLA | C4B-NB | 7.11 | 1.41 | 1.35 |
| 29 | b | 721 | CLA | C4B-NB | 7.11 | 1.41 | 1.35 |
| 29 | G | 314 | CLA | C4B-NB | 7.10 | 1.41 | 1.35 |
| 29 | a | 820 | CLA | C4B-NB | 7.09 | 1.41 | 1.35 |
| 29 | G | 319 | CLA | C4B-NB | 7.09 | 1.41 | 1.35 |
| 29 | J | 309 | CLA | C4B-NB | 7.09 | 1.41 | 1.35 |
| 29 | b | 701 | CLA | C4B-NB | 7.08 | 1.41 | 1.35 |
| 29 | A | 208 | CLA | C4B-NB | 7.08 | 1.41 | 1.35 |
| 29 | b | 731 | CLA | C4B-NB | 7.08 | 1.41 | 1.35 |
| 29 | J | 307 | CLA | C4B-NB | 7.08 | 1.41 | 1.35 |
| 29 | a | 809 | CLA | C4B-NB | 7.08 | 1.41 | 1.35 |
| 29 | L | 312 | CLA | C4B-NB | 7.07 | 1.41 | 1.35 |
| 29 | G | 313 | CLA | C4B-NB | 7.07 | 1.41 | 1.35 |
| 29 | G | 312 | CLA | C4B-NB | 7.07 | 1.41 | 1.35 |
| 29 | b | 704 | CLA | C4B-NB | 7.07 | 1.41 | 1.35 |
| 29 | I | 211 | CLA | C4B-NB | 7.07 | 1.41 | 1.35 |
| 29 | G | 311 | CLA | C4B-NB | 7.06 | 1.41 | 1.35 |
| 29 | B | 309 | CLA | C4B-NB | 7.05 | 1.41 | 1.35 |
| 29 | F | 310 | CLA | C4B-NB | 7.05 | 1.41 | 1.35 |
| 29 | I | 210 | CLA | C4B-NB | 7.05 | 1.41 | 1.35 |
| 29 | h | 201 | CLA | C4B-NB | 7.05 | 1.41 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 29 | a | 830 | CLA | C4B-NB | 7.04 | 1.41 | 1.35 |
| 29 | b | 711 | CLA | C4B-NB | 7.04 | 1.41 | 1.35 |
| 29 | J | 306 | CLA | C4B-NB | 7.04 | 1.41 | 1.35 |
| 29 | L | 308 | CLA | C4B-NB | 7.04 | 1.41 | 1.35 |
| 29 | E | 311 | CLA | C4B-NB | 7.04 | 1.41 | 1.35 |
| 29 | a | 822 | CLA | C4B-NB | 7.04 | 1.41 | 1.35 |
| 29 | a | 823 | CLA | C4B-NB | 7.04 | 1.41 | 1.35 |
| 29 | b | 725 | CLA | C4B-NB | 7.04 | 1.41 | 1.35 |
| 29 | b | 722 | CLA | C4B-NB | 7.03 | 1.41 | 1.35 |
| 29 | a | 806 | CLA | C4B-NB | 7.02 | 1.41 | 1.35 |
| 29 | L | 313 | CLA | C4B-NB | 7.02 | 1.41 | 1.35 |
| 29 | K | 211 | CLA | C4B-NB | 7.01 | 1.41 | 1.35 |
| 39 | L | 306 | KC1 | C4D-CHA | -7.00 | 1.36 | 1.45 |
| 29 | J | 308 | CLA | C4B-NB | 6.99 | 1.41 | 1.35 |
| 39 | G | 318 | KC1 | C4D-CHA | -6.99 | 1.36 | 1.45 |
| 29 | I | 209 | CLA | C4B-NB | 6.97 | 1.41 | 1.35 |
| 29 | A | 211 | CLA | C4B-NB | 6.95 | 1.41 | 1.35 |
| 29 | b | 705 | CLA | C4B-NB | 6.95 | 1.41 | 1.35 |
| 29 | I | 214 | CLA | C4B-NB | 6.95 | 1.41 | 1.35 |
| 29 | A | 212 | CLA | C4B-NB | 6.95 | 1.41 | 1.35 |
| 29 | B | 312 | CLA | C4B-NB | 6.93 | 1.41 | 1.35 |
| 29 | i | 202 | CLA | C4B-NB | 6.92 | 1.41 | 1.35 |
| 39 | P | 211 | KC1 | C4D-CHA | -6.91 | 1.36 | 1.45 |
| 36 | I | 205 | DD6 | C19-C20 | 6.90 | 1.61 | 1.52 |
| 39 | I | 215 | KC1 | C4D-CHA | -6.89 | 1.36 | 1.45 |
| 29 | i | 203 | CLA | C4B-NB | 6.89 | 1.41 | 1.35 |
| 39 | L | 314 | KC1 | C4D-CHA | -6.89 | 1.36 | 1.45 |
| 39 | E | 312 | KC1 | C4D-CHA | -6.87 | 1.36 | 1.45 |
| 29 | i | 201 | CLA | C4B-NB | 6.85 | 1.41 | 1.35 |
| 39 | O | 310 | KC1 | C4D-CHA | -6.83 | 1.36 | 1.45 |
| 39 | K | 215 | KC1 | C4D-CHA | -6.83 | 1.36 | 1.45 |
| 39 | Q | 309 | KC1 | C4D-CHA | -6.83 | 1.36 | 1.45 |
| 39 | A | 213 | KC1 | C4D-CHA | -6.81 | 1.36 | 1.45 |
| 39 | A | 205 | KC1 | C4D-CHA | -6.77 | 1.36 | 1.45 |
| 39 | H | 309 | KC1 | C4D-CHA | -6.75 | 1.36 | 1.45 |
| 39 | B | 313 | KC1 | C4D-CHA | -6.74 | 1.36 | 1.45 |
| 39 | M | 312 | KC1 | C4D-CHA | -6.71 | 1.36 | 1.45 |
| 39 | Q | 314 | KC1 | C4D-CHA | -6.71 | 1.36 | 1.45 |
| 39 | O | 315 | KC1 | C4D-CHA | -6.69 | 1.36 | 1.45 |
| 39 | N | 310 | KC1 | C4D-CHA | -6.66 | 1.36 | 1.45 |
| 39 | F | 309 | KC1 | C4D-CHA | -6.66 | 1.36 | 1.45 |
| 39 | H | 314 | KC1 | C4D-CHA | -6.65 | 1.36 | 1.45 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 39 | C | 310 | KC1 | C4D-CHA | -6.64 | 1.36 | 1.45 |
| 39 | D | 315 | KC1 | C4D-CHA | -6.63 | 1.36 | 1.45 |
| 39 | C | 312 | KC1 | C4D-CHA | -6.62 | 1.36 | 1.45 |
| 39 | J | 312 | KC1 | C4D-CHA | -6.61 | 1.36 | 1.45 |
| 39 | H | 311 | KC1 | C4D-CHA | -6.61 | 1.36 | 1.45 |
| 39 | T | 310 | KC1 | C4D-CHA | -6.61 | 1.36 | 1.45 |
| 39 | E | 307 | KC1 | C4D-CHA | -6.59 | 1.36 | 1.45 |
| 39 | T | 315 | KC1 | C4D-CHA | -6.59 | 1.36 | 1.45 |
| 39 | M | 305 | KC1 | C4D-CHA | -6.57 | 1.36 | 1.45 |
| 39 | P | 216 | KC1 | C4D-CHA | -6.57 | 1.36 | 1.45 |
| 39 | N | 315 | KC1 | C4D-CHA | -6.55 | 1.36 | 1.45 |
| 39 | N | 312 | KC1 | C4D-CHA | -6.54 | 1.36 | 1.45 |
| 29 | a | 801 | CLA | C4B-NB | 6.52 | 1.41 | 1.35 |
| 39 | C | 315 | KC1 | C4D-CHA | -6.50 | 1.36 | 1.45 |
| 39 | F | 314 | KC1 | C4D-CHA | -6.49 | 1.37 | 1.45 |
| 39 | D | 310 | KC1 | C4D-CHA | -6.47 | 1.37 | 1.45 |
| 39 | P | 213 | KC1 | C4D-CHA | -6.46 | 1.37 | 1.45 |
| 39 | T | 312 | KC1 | C4D-CHA | -6.34 | 1.37 | 1.45 |
| 39 | Q | 311 | KC1 | C4D-CHA | -6.26 | 1.37 | 1.45 |
| 39 | G | 315 | KC1 | C4D-CHA | -6.18 | 1.37 | 1.45 |
| 37 | D | 303 | PID | C13-C14 | -5.81 | 1.34 | 1.45 |
| 37 | F | 304 | PID | O1-C1 | -5.77 | 1.37 | 1.46 |
| 37 | N | 302 | PID | C13-C14 | -5.71 | 1.34 | 1.45 |
| 37 | G | 303 | PID | C13-C14 | -5.71 | 1.34 | 1.45 |
| 37 | P | 203 | PID | C13-C14 | -5.71 | 1.34 | 1.45 |
| 39 | O | 312 | KC1 | C4D-CHA | -5.70 | 1.37 | 1.45 |
| 37 | H | 305 | PID | C13-C14 | -5.69 | 1.34 | 1.45 |
| 37 | D | 306 | PID | C13-C14 | -5.66 | 1.34 | 1.45 |
| 37 | F | 304 | PID | C13-C14 | -5.66 | 1.34 | 1.45 |
| 37 | O | 302 | PID | C13-C14 | -5.66 | 1.34 | 1.45 |
| 37 | h | 204 | PID | C13-C14 | -5.64 | 1.34 | 1.45 |
| 37 | G | 310 | PID | C13-C14 | -5.63 | 1.34 | 1.45 |
| 37 | H | 302 | PID | C13-C14 | -5.61 | 1.34 | 1.45 |
| 37 | T | 317 | PID | C13-C14 | -5.59 | 1.34 | 1.45 |
| 37 | N | 305 | PID | C13-C14 | -5.57 | 1.34 | 1.45 |
| 37 | F | 306 | PID | C13-C14 | -5.57 | 1.34 | 1.45 |
| 37 | Q | 303 | PID | C13-C14 | -5.52 | 1.34 | 1.45 |
| 37 | C | 305 | PID | C13-C14 | -5.52 | 1.34 | 1.45 |
| 37 | G | 309 | PID | C13-C14 | -5.50 | 1.34 | 1.45 |
| 37 | j | 101 | PID | C13-C14 | -5.46 | 1.35 | 1.45 |
| 37 | N | 301 | PID | C13-C14 | -5.45 | 1.35 | 1.45 |
| 37 | T | 307 | PID | C13-C14 | -5.43 | 1.35 | 1.45 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 37 | T | 301 | PID | C13-C14 | -5.42 | 1.35 | 1.45 |
| 37 | Q | 301 | PID | C13-C14 | -5.42 | 1.35 | 1.45 |
| 37 | T | 302 | PID | C13-C14 | -5.42 | 1.35 | 1.45 |
| 37 | C | 304 | PID | C13-C14 | -5.42 | 1.35 | 1.45 |
| 37 | F | 302 | PID | C13-C14 | -5.41 | 1.35 | 1.45 |
| 37 | D | 302 | PID | C13-C14 | -5.41 | 1.35 | 1.45 |
| 37 | T | 305 | PID | C13-C14 | -5.40 | 1.35 | 1.45 |
| 37 | O | 307 | PID | C13-C14 | -5.40 | 1.35 | 1.45 |
| 37 | E | 301 | PID | C13-C14 | -5.39 | 1.35 | 1.45 |
| 37 | C | 301 | PID | C13-C14 | -5.39 | 1.35 | 1.45 |
| 37 | Q | 304 | PID | C13-C14 | -5.38 | 1.35 | 1.45 |
| 37 | Q | 306 | PID | C13-C14 | -5.38 | 1.35 | 1.45 |
| 37 | O | 304 | PID | C13-C14 | -5.38 | 1.35 | 1.45 |
| 37 | D | 305 | PID | C13-C14 | -5.37 | 1.35 | 1.45 |
| 37 | N | 304 | PID | C13-C14 | -5.34 | 1.35 | 1.45 |
| 37 | H | 301 | PID | C13-C14 | -5.33 | 1.35 | 1.45 |
| 37 | C | 307 | PID | C13-C14 | -5.31 | 1.35 | 1.45 |
| 37 | O | 305 | PID | C13-C14 | -5.30 | 1.35 | 1.45 |
| 37 | D | 307 | PID | C13-C14 | -5.30 | 1.35 | 1.45 |
| 37 | C | 302 | PID | C13-C14 | -5.29 | 1.35 | 1.45 |
| 37 | N | 307 | PID | C13-C14 | -5.28 | 1.35 | 1.45 |
| 37 | P | 205 | PID | C13-C14 | -5.24 | 1.35 | 1.45 |
| 37 | P | 202 | PID | C13-C14 | -5.24 | 1.35 | 1.45 |
| 36 | G | 307 | DD6 | C19-C20 | 5.23 | 1.59 | 1.52 |
| 37 | O | 301 | PID | C13-C14 | -5.21 | 1.35 | 1.45 |
| 37 | H | 304 | PID | C13-C14 | -5.19 | 1.35 | 1.45 |
| 37 | T | 304 | PID | C13-C14 | -5.18 | 1.35 | 1.45 |
| 36 | G | 307 | DD6 | C21-C20 | -5.16 | 1.43 | 1.51 |
| 37 | P | 206 | PID | C13-C14 | -5.14 | 1.35 | 1.45 |
| 37 | H | 306 | PID | C13-C14 | -5.10 | 1.35 | 1.45 |
| 37 | P | 208 | PID | C13-C14 | -5.08 | 1.35 | 1.45 |
| 39 | G | 315 | KC1 | MG-NB | -4.93 | 1.96 | 2.05 |
| 39 | Q | 311 | KC1 | MG-NB | -4.86 | 1.96 | 2.05 |
| 38 | B | 304 | UIX | O2-C27 | 4.81 | 1.46 | 1.35 |
| 39 | P | 213 | KC1 | MG-NB | -4.80 | 1.96 | 2.05 |
| 39 | C | 312 | KC1 | MG-NB | -4.79 | 1.96 | 2.05 |
| 39 | C | 310 | KC1 | MG-NB | -4.79 | 1.96 | 2.05 |
| 39 | T | 310 | KC1 | MG-NB | -4.78 | 1.96 | 2.05 |
| 39 | C | 315 | KC1 | MG-NB | -4.78 | 1.96 | 2.05 |
| 38 | T | 306 | UIX | O2-C27 | 4.77 | 1.46 | 1.35 |
| 39 | O | 312 | KC1 | MG-NB | -4.77 | 1.96 | 2.05 |
| 39 | Q | 314 | KC1 | MG-NB | -4.76 | 1.96 | 2.05 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 39 | D | 310 | KC1 | MG-NB | -4.76 | 1.96 | 2.05 |
| 39 | K | 215 | KC1 | MG-NB | -4.76 | 1.96 | 2.05 |
| 38 | N | 306 | UIX | O2-C27 | 4.74 | 1.45 | 1.35 |
| 38 | C | 306 | UIX | O2-C27 | 4.74 | 1.45 | 1.35 |
| 38 | P | 207 | UIX | O2-C27 | 4.73 | 1.45 | 1.35 |
| 39 | E | 312 | KC1 | MG-NB | -4.73 | 1.96 | 2.05 |
| 38 | Q | 305 | UIX | O2-C27 | 4.72 | 1.45 | 1.35 |
| 38 | L | 302 | UIX | O2-C27 | 4.72 | 1.45 | 1.35 |
| 39 | D | 315 | KC1 | MG-NB | -4.72 | 1.96 | 2.05 |
| 39 | H | 311 | KC1 | MG-NB | -4.72 | 1.96 | 2.05 |
| 39 | Q | 309 | KC1 | MG-NB | -4.72 | 1.96 | 2.05 |
| 30 | b | 727 | PQN | C10-C5 | 4.71 | 1.48 | 1.40 |
| 39 | M | 312 | KC1 | MG-NB | -4.71 | 1.96 | 2.05 |
| 39 | N | 315 | KC1 | MG-NB | -4.70 | 1.96 | 2.05 |
| 39 | G | 318 | KC1 | MG-NB | -4.70 | 1.96 | 2.05 |
| 38 | E | 304 | UIX | O2-C27 | 4.70 | 1.45 | 1.35 |
| 39 | H | 314 | KC1 | MG-NB | -4.70 | 1.96 | 2.05 |
| 39 | O | 315 | KC1 | MG-NB | -4.70 | 1.96 | 2.05 |
| 39 | N | 310 | KC1 | MG-NB | -4.70 | 1.96 | 2.05 |
| 39 | E | 307 | KC1 | MG-NB | -4.70 | 1.96 | 2.05 |
| 38 | O | 306 | UIX | O2-C27 | 4.69 | 1.45 | 1.35 |
| 39 | T | 312 | KC1 | MG-NB | -4.69 | 1.96 | 2.05 |
| 39 | M | 305 | KC1 | MG-NB | -4.68 | 1.96 | 2.05 |
| 39 | F | 314 | KC1 | MG-NB | -4.68 | 1.96 | 2.05 |
| 39 | J | 312 | KC1 | MG-NB | -4.67 | 1.96 | 2.05 |
| 39 | N | 312 | KC1 | MG-NB | -4.66 | 1.96 | 2.05 |
| 39 | O | 310 | KC1 | MG-NB | -4.65 | 1.96 | 2.05 |
| 39 | F | 309 | KC1 | MG-NB | -4.65 | 1.96 | 2.05 |
| 39 | H | 309 | KC1 | MG-NB | -4.65 | 1.96 | 2.05 |
| 39 | L | 306 | KC1 | MG-NB | -4.65 | 1.96 | 2.05 |
| 39 | I | 215 | KC1 | MG-NB | -4.64 | 1.96 | 2.05 |
| 39 | B | 313 | KC1 | MG-NB | -4.64 | 1.96 | 2.05 |
| 39 | A | 213 | KC1 | MG-NB | -4.63 | 1.96 | 2.05 |
| 39 | A | 205 | KC1 | MG-NB | -4.62 | 1.96 | 2.05 |
| 38 | A | 203 | UIX | O2-C27 | 4.62 | 1.45 | 1.35 |
| 39 | T | 315 | KC1 | MG-NB | -4.62 | 1.96 | 2.05 |
| 39 | P | 216 | KC1 | MG-NB | -4.62 | 1.96 | 2.05 |
| 38 | F | 305 | UIX | O2-C27 | 4.62 | 1.45 | 1.35 |
| 39 | P | 211 | KC1 | MG-NB | -4.62 | 1.96 | 2.05 |
| 30 | a | 832 | PQN | C10-C5 | 4.59 | 1.48 | 1.40 |
| 39 | L | 314 | KC1 | MG-NB | -4.58 | 1.96 | 2.05 |
| 36 | I | 203 | DD6 | C19-C20 | 4.57 | 1.58 | 1.52 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 38 | J | 304 | UIX | O2-C27 | 4.36 | 1.45 | 1.35 |
| 35 | b | 733 | DGD | O2G-C1B | 4.27 | 1.46 | 1.34 |
| 35 | B | 318 | DGD | O1G-C1A | 4.26 | 1.45 | 1.33 |
| 35 | j | 106 | DGD | O1G-C1A | 4.23 | 1.45 | 1.33 |
| 35 | G | 320 | DGD | O1G-C1A | 4.22 | 1.45 | 1.33 |
| 37 | E | 301 | PID | C20-C21 | 4.20 | 1.41 | 1.35 |
| 35 | m | 102 | DGD | O1G-C1A | 4.18 | 1.45 | 1.33 |
| 35 | j | 105 | DGD | O1G-C1A | 4.16 | 1.45 | 1.33 |
| 35 | b | 733 | DGD | O1G-C1A | 4.15 | 1.45 | 1.33 |
| 35 | h | 203 | DGD | O1G-C1A | 4.11 | 1.45 | 1.33 |
| 35 | G | 320 | DGD | O2G-C1B | 4.10 | 1.45 | 1.34 |
| 35 | j | 106 | DGD | O2G-C1B | 4.07 | 1.45 | 1.34 |
| 35 | j | 103 | DGD | O1G-C1A | 4.06 | 1.45 | 1.33 |
| 35 | j | 105 | DGD | O2G-C1B | 4.03 | 1.45 | 1.34 |
| 35 | h | 203 | DGD | O2G-C1B | 4.02 | 1.45 | 1.34 |
| 29 | P | 217 | CLA | C1D-ND | 4.00 | 1.42 | 1.37 |
| 35 | B | 318 | DGD | O2G-C1B | 3.99 | 1.45 | 1.34 |
| 29 | O | 314 | CLA | C1D-ND | 3.94 | 1.42 | 1.37 |
| 29 | P | 209 | CLA | C1D-ND | 3.93 | 1.42 | 1.37 |
| 29 | O | 316 | CLA | C1D-ND | 3.92 | 1.42 | 1.37 |
| 29 | F | 315 | CLA | C1D-ND | 3.92 | 1.42 | 1.37 |
| 29 | E | 314 | CLA | C1D-ND | 3.91 | 1.42 | 1.37 |
| 35 | m | 102 | DGD | O2G-C1B | 3.90 | 1.45 | 1.34 |
| 29 | T | 316 | CLA | C1D-ND | 3.89 | 1.42 | 1.37 |
| 29 | O | 308 | CLA | C1D-ND | 3.89 | 1.42 | 1.37 |
| 29 | O | 311 | CLA | C1D-ND | 3.89 | 1.42 | 1.37 |
| 29 | M | 309 | CLA | C1D-ND | 3.89 | 1.42 | 1.37 |
| 29 | P | 215 | CLA | C1D-ND | 3.88 | 1.42 | 1.37 |
| 29 | D | 316 | CLA | C1D-ND | 3.88 | 1.42 | 1.37 |
| 29 | E | 313 | CLA | C1D-ND | 3.88 | 1.42 | 1.37 |
| 35 | j | 103 | DGD | O2G-C1B | 3.88 | 1.45 | 1.34 |
| 29 | N | 316 | CLA | C1D-ND | 3.87 | 1.42 | 1.37 |
| 29 | O | 309 | CLA | C1D-ND | 3.87 | 1.42 | 1.37 |
| 29 | H | 315 | CLA | C1D-ND | 3.87 | 1.42 | 1.37 |
| 29 | N | 308 | CLA | C1D-ND | 3.86 | 1.42 | 1.37 |
| 29 | P | 212 | CLA | C1D-ND | 3.86 | 1.42 | 1.37 |
| 29 | L | 316 | CLA | C1D-ND | 3.84 | 1.42 | 1.37 |
| 29 | T | 313 | CLA | C1D-ND | 3.84 | 1.42 | 1.37 |
| 29 | J | 308 | CLA | C1D-ND | 3.84 | 1.42 | 1.37 |
| 29 | G | 319 | CLA | C1D-ND | 3.84 | 1.42 | 1.37 |
| 29 | J | 313 | CLA | C1D-ND | 3.83 | 1.42 | 1.37 |
| 29 | a | 817 | CLA | C1D-ND | 3.83 | 1.42 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 29 | a | 819 | CLA | C1D-ND | 3.82 | 1.42 | 1.37 |
| 36 | I | 205 | DD6 | C21-C20 | -3.82 | 1.45 | 1.51 |
| 37 | P | 208 | PID | C20-C21 | 3.82 | 1.40 | 1.35 |
| 29 | A | 210 | CLA | C1D-ND | 3.82 | 1.42 | 1.37 |
| 29 | E | 310 | CLA | C1D-ND | 3.82 | 1.42 | 1.37 |
| 29 | a | 813 | CLA | C1D-ND | 3.81 | 1.42 | 1.37 |
| 29 | b | 721 | CLA | C1D-ND | 3.81 | 1.42 | 1.37 |
| 29 | H | 307 | CLA | C1D-ND | 3.81 | 1.42 | 1.37 |
| 29 | D | 312 | CLA | C1D-ND | 3.80 | 1.42 | 1.37 |
| 29 | C | 316 | CLA | C1D-ND | 3.80 | 1.42 | 1.37 |
| 29 | P | 214 | CLA | C1D-ND | 3.80 | 1.42 | 1.37 |
| 29 | J | 305 | CLA | C1D-ND | 3.80 | 1.42 | 1.37 |
| 29 | M | 314 | CLA | C1D-ND | 3.80 | 1.42 | 1.37 |
| 29 | F | 316 | CLA | C1D-ND | 3.80 | 1.42 | 1.37 |
| 29 | M | 313 | CLA | C1D-ND | 3.79 | 1.42 | 1.37 |
| 29 | E | 305 | CLA | C1D-ND | 3.79 | 1.42 | 1.37 |
| 29 | A | 206 | CLA | C1D-ND | 3.79 | 1.42 | 1.37 |
| 29 | H | 312 | CLA | C1D-ND | 3.79 | 1.42 | 1.37 |
| 29 | b | 715 | CLA | C1D-ND | 3.79 | 1.42 | 1.37 |
| 29 | B | 306 | CLA | C1D-ND | 3.78 | 1.42 | 1.37 |
| 29 | T | 308 | CLA | C1D-ND | 3.78 | 1.42 | 1.37 |
| 29 | N | 311 | CLA | C1D-ND | 3.77 | 1.42 | 1.37 |
| 29 | E | 309 | CLA | C1D-ND | 3.77 | 1.42 | 1.37 |
| 29 | a | 821 | CLA | C1D-ND | 3.77 | 1.42 | 1.37 |
| 29 | G | 317 | CLA | C1D-ND | 3.77 | 1.42 | 1.37 |
| 29 | H | 310 | CLA | C1D-ND | 3.77 | 1.42 | 1.37 |
| 29 | l | 502 | CLA | C1D-ND | 3.77 | 1.42 | 1.37 |
| 29 | M | 306 | CLA | C1D-ND | 3.76 | 1.42 | 1.37 |
| 29 | L | 311 | CLA | C1D-ND | 3.76 | 1.42 | 1.37 |
| 29 | B | 307 | CLA | C1D-ND | 3.76 | 1.42 | 1.37 |
| 29 | b | 713 | CLA | C1D-ND | 3.76 | 1.42 | 1.37 |
| 29 | D | 309 | CLA | C1D-ND | 3.76 | 1.42 | 1.37 |
| 29 | L | 315 | CLA | C1D-ND | 3.75 | 1.42 | 1.37 |
| 38 | A | 203 | UIX | C25-C28 | -3.75 | 1.25 | 1.32 |
| 29 | Q | 307 | CLA | C1D-ND | 3.75 | 1.42 | 1.37 |
| 29 | M | 308 | CLA | C1D-ND | 3.74 | 1.42 | 1.37 |
| 29 | a | 804 | CLA | C1D-ND | 3.74 | 1.42 | 1.37 |
| 29 | P | 210 | CLA | C1D-ND | 3.74 | 1.42 | 1.37 |
| 29 | T | 311 | CLA | C1D-ND | 3.74 | 1.42 | 1.37 |
| 29 | N | 314 | CLA | C1D-ND | 3.74 | 1.42 | 1.37 |
| 29 | B | 312 | CLA | C1D-ND | 3.74 | 1.42 | 1.37 |
| 29 | E | 315 | CLA | C1D-ND | 3.74 | 1.42 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 29 | C | 311 | CLA | C1D-ND | 3.73 | 1.42 | 1.37 |
| 29 | F | 312 | CLA | C1D-ND | 3.73 | 1.42 | 1.37 |
| 29 | b | 720 | CLA | C1D-ND | 3.73 | 1.42 | 1.37 |
| 29 | Q | 315 | CLA | C1D-ND | 3.73 | 1.42 | 1.37 |
| 29 | M | 311 | CLA | C1D-ND | 3.73 | 1.42 | 1.37 |
| 29 | l | 508 | CLA | C1D-ND | 3.73 | 1.42 | 1.37 |
| 29 | K | 207 | CLA | C1D-ND | 3.72 | 1.42 | 1.37 |
| 29 | l | 505 | CLA | C1D-ND | 3.72 | 1.42 | 1.37 |
| 29 | K | 212 | CLA | C1D-ND | 3.72 | 1.42 | 1.37 |
| 29 | a | 816 | CLA | C1D-ND | 3.72 | 1.42 | 1.37 |
| 29 | C | 309 | CLA | C1D-ND | 3.72 | 1.42 | 1.37 |
| 38 | E | 304 | UIX | C25-C28 | -3.72 | 1.25 | 1.32 |
| 29 | M | 307 | CLA | C1D-ND | 3.72 | 1.42 | 1.37 |
| 29 | L | 308 | CLA | C1D-ND | 3.71 | 1.42 | 1.37 |
| 29 | D | 308 | CLA | C1D-ND | 3.71 | 1.42 | 1.37 |
| 29 | a | 811 | CLA | C1D-ND | 3.71 | 1.42 | 1.37 |
| 29 | I | 208 | CLA | C1D-ND | 3.71 | 1.42 | 1.37 |
| 29 | L | 310 | CLA | C1D-ND | 3.71 | 1.42 | 1.37 |
| 29 | C | 314 | CLA | C1D-ND | 3.71 | 1.42 | 1.37 |
| 29 | h | 201 | CLA | C1D-ND | 3.70 | 1.42 | 1.37 |
| 29 | a | 829 | CLA | C1D-ND | 3.70 | 1.42 | 1.37 |
| 29 | C | 308 | CLA | C1D-ND | 3.70 | 1.42 | 1.37 |
| 37 | T | 302 | PID | C20-C21 | 3.70 | 1.40 | 1.35 |
| 29 | I | 201 | CLA | C1D-ND | 3.70 | 1.42 | 1.37 |
| 29 | D | 314 | CLA | C1D-ND | 3.70 | 1.42 | 1.37 |
| 29 | j | 104 | CLA | C1D-ND | 3.70 | 1.42 | 1.37 |
| 29 | T | 309 | CLA | C1D-ND | 3.70 | 1.42 | 1.37 |
| 29 | B | 315 | CLA | C1D-ND | 3.70 | 1.42 | 1.37 |
| 29 | F | 308 | CLA | C1D-ND | 3.69 | 1.42 | 1.37 |
| 38 | J | 304 | UIX | C25-C28 | -3.69 | 1.25 | 1.32 |
| 29 | a | 809 | CLA | C1D-ND | 3.69 | 1.42 | 1.37 |
| 29 | M | 315 | CLA | C1D-ND | 3.69 | 1.42 | 1.37 |
| 29 | L | 313 | CLA | C1D-ND | 3.69 | 1.42 | 1.37 |
| 29 | M | 310 | CLA | C1D-ND | 3.69 | 1.42 | 1.37 |
| 29 | G | 316 | CLA | C1D-ND | 3.69 | 1.42 | 1.37 |
| 29 | K | 216 | CLA | C1D-ND | 3.69 | 1.42 | 1.37 |
| 29 | T | 314 | CLA | C1D-ND | 3.69 | 1.42 | 1.37 |
| 29 | F | 313 | CLA | C1D-ND | 3.69 | 1.42 | 1.37 |
| 29 | B | 309 | CLA | C1D-ND | 3.68 | 1.42 | 1.37 |
| 29 | D | 311 | CLA | C1D-ND | 3.68 | 1.42 | 1.37 |
| 29 | a | 818 | CLA | C1D-ND | 3.68 | 1.42 | 1.37 |
| 29 | Q | 308 | CLA | C1D-ND | 3.68 | 1.42 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 29 | a | 803 | CLA | C1D-ND | 3.68 | 1.42 | 1.37 |
| 29 | F | 311 | CLA | C1D-ND | 3.68 | 1.42 | 1.37 |
| 29 | J | 310 | CLA | C1D-ND | 3.68 | 1.42 | 1.37 |
| 29 | Q | 313 | CLA | C1D-ND | 3.68 | 1.42 | 1.37 |
| 29 | l | 510 | CLA | C1D-ND | 3.68 | 1.42 | 1.37 |
| 29 | J | 309 | CLA | C1D-ND | 3.68 | 1.42 | 1.37 |
| 29 | H | 308 | CLA | C1D-ND | 3.67 | 1.42 | 1.37 |
| 29 | I | 216 | CLA | C1D-ND | 3.67 | 1.42 | 1.37 |
| 29 | f | 803 | CLA | C1D-ND | 3.67 | 1.42 | 1.37 |
| 29 | K | 210 | CLA | C1D-ND | 3.67 | 1.42 | 1.37 |
| 38 | B | 304 | UIX | C25-C28 | -3.67 | 1.25 | 1.32 |
| 29 | K | 214 | CLA | C1D-ND | 3.66 | 1.42 | 1.37 |
| 29 | K | 217 | CLA | C1D-ND | 3.66 | 1.42 | 1.37 |
| 29 | b | 719 | CLA | C1D-ND | 3.66 | 1.42 | 1.37 |
| 29 | a | 822 | CLA | C1D-ND | 3.66 | 1.42 | 1.37 |
| 29 | a | 826 | CLA | C1D-ND | 3.66 | 1.42 | 1.37 |
| 29 | F | 307 | CLA | C1D-ND | 3.65 | 1.42 | 1.37 |
| 29 | b | 712 | CLA | C1D-ND | 3.65 | 1.42 | 1.37 |
| 29 | L | 309 | CLA | C1D-ND | 3.65 | 1.42 | 1.37 |
| 29 | L | 317 | CLA | C1D-ND | 3.65 | 1.42 | 1.37 |
| 29 | Q | 310 | CLA | C1D-ND | 3.65 | 1.42 | 1.37 |
| 29 | b | 706 | CLA | C1D-ND | 3.65 | 1.42 | 1.37 |
| 29 | I | 217 | CLA | C1D-ND | 3.65 | 1.42 | 1.37 |
| 29 | N | 309 | CLA | C1D-ND | 3.65 | 1.42 | 1.37 |
| 29 | Q | 312 | CLA | C1D-ND | 3.65 | 1.42 | 1.37 |
| 29 | b | 702 | CLA | C1D-ND | 3.64 | 1.42 | 1.37 |
| 29 | I | 209 | CLA | C1D-ND | 3.64 | 1.42 | 1.37 |
| 29 | A | 211 | CLA | C1D-ND | 3.64 | 1.42 | 1.37 |
| 29 | A | 209 | CLA | C1D-ND | 3.64 | 1.42 | 1.37 |
| 29 | J | 307 | CLA | C1D-ND | 3.64 | 1.42 | 1.37 |
| 29 | K | 213 | CLA | C1D-ND | 3.64 | 1.42 | 1.37 |
| 29 | I | 211 | CLA | C1D-ND | 3.64 | 1.42 | 1.37 |
| 29 | a | 815 | CLA | C1D-ND | 3.64 | 1.42 | 1.37 |
| 29 | B | 308 | CLA | C1D-ND | 3.64 | 1.42 | 1.37 |
| 29 | A | 207 | CLA | C1D-ND | 3.64 | 1.42 | 1.37 |
| 29 | a | 814 | CLA | C1D-ND | 3.63 | 1.42 | 1.37 |
| 29 | a | 823 | CLA | C1D-ND | 3.63 | 1.42 | 1.37 |
| 29 | E | 311 | CLA | C1D-ND | 3.63 | 1.42 | 1.37 |
| 29 | l | 501 | CLA | C1D-ND | 3.63 | 1.42 | 1.37 |
| 29 | A | 208 | CLA | C1D-ND | 3.63 | 1.42 | 1.37 |
| 29 | b | 724 | CLA | C1D-ND | 3.63 | 1.42 | 1.37 |
| 29 | B | 316 | CLA | C1D-ND | 3.63 | 1.42 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 38 | O | 306 | UIX | C25-C28 | -3.63 | 1.25 | 1.32 |
| 29 | G | 301 | CLA | C1D-ND | 3.63 | 1.42 | 1.37 |
| 29 | a | 807 | CLA | C1D-ND | 3.63 | 1.42 | 1.37 |
| 29 | b | 716 | CLA | C1D-ND | 3.63 | 1.42 | 1.37 |
| 29 | L | 307 | CLA | C1D-ND | 3.63 | 1.42 | 1.37 |
| 29 | a | 830 | CLA | C1D-ND | 3.62 | 1.42 | 1.37 |
| 29 | a | 828 | CLA | C1D-ND | 3.62 | 1.42 | 1.37 |
| 29 | A | 216 | CLA | C1D-ND | 3.62 | 1.42 | 1.37 |
| 29 | K | 209 | CLA | C1D-ND | 3.62 | 1.42 | 1.37 |
| 29 | b | 722 | CLA | C1D-ND | 3.62 | 1.42 | 1.37 |
| 38 | F | 305 | UIX | C25-C28 | -3.62 | 1.25 | 1.32 |
| 37 | P | 206 | PID | C20-C21 | 3.62 | 1.40 | 1.35 |
| 29 | b | 709 | CLA | C1D-ND | 3.62 | 1.42 | 1.37 |
| 29 | B | 311 | CLA | C1D-ND | 3.61 | 1.42 | 1.37 |
| 29 | i | 201 | CLA | C1D-ND | 3.61 | 1.42 | 1.37 |
| 29 | K | 211 | CLA | C1D-ND | 3.61 | 1.42 | 1.37 |
| 29 | A | 215 | CLA | C1D-ND | 3.61 | 1.42 | 1.37 |
| 29 | G | 314 | CLA | C1D-ND | 3.61 | 1.42 | 1.37 |
| 29 | a | 831 | CLA | C1D-ND | 3.61 | 1.42 | 1.37 |
| 29 | b | 707 | CLA | C1D-ND | 3.61 | 1.42 | 1.37 |
| 29 | i | 202 | CLA | C1D-ND | 3.60 | 1.42 | 1.37 |
| 29 | a | 808 | CLA | C1D-ND | 3.60 | 1.42 | 1.37 |
| 29 | a | 827 | CLA | C1D-ND | 3.60 | 1.42 | 1.37 |
| 29 | B | 314 | CLA | C1D-ND | 3.59 | 1.42 | 1.37 |
| 29 | G | 312 | CLA | C1D-ND | 3.59 | 1.42 | 1.37 |
| 29 | I | 213 | CLA | C1D-ND | 3.59 | 1.42 | 1.37 |
| 29 | G | 311 | CLA | C1D-ND | 3.59 | 1.42 | 1.37 |
| 29 | G | 302 | CLA | C1D-ND | 3.59 | 1.42 | 1.37 |
| 29 | b | 736 | CLA | C1D-ND | 3.58 | 1.42 | 1.37 |
| 38 | T | 306 | UIX | C25-C28 | -3.58 | 1.26 | 1.32 |
| 38 | P | 207 | UIX | C25-C28 | -3.58 | 1.26 | 1.32 |
| 29 | l | 509 | CLA | C1D-ND | 3.58 | 1.42 | 1.37 |
| 29 | I | 207 | CLA | C1D-ND | 3.58 | 1.42 | 1.37 |
| 29 | J | 311 | CLA | C1D-ND | 3.58 | 1.42 | 1.37 |
| 29 | I | 212 | CLA | C1D-ND | 3.58 | 1.42 | 1.37 |
| 29 | b | 701 | CLA | C1D-ND | 3.58 | 1.42 | 1.37 |
| 29 | H | 313 | CLA | C1D-ND | 3.58 | 1.42 | 1.37 |
| 36 | O | 303 | DD6 | C19-C20 | 3.58 | 1.57 | 1.52 |
| 29 | b | 710 | CLA | C1D-ND | 3.57 | 1.42 | 1.37 |
| 29 | f | 802 | CLA | C1D-ND | 3.57 | 1.42 | 1.37 |
| 29 | C | 313 | CLA | C1D-ND | 3.57 | 1.42 | 1.37 |
| 29 | b | 708 | CLA | C1D-ND | 3.57 | 1.42 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 29 | f | 805 | CLA | C1D-ND | 3.57 | 1.42 | 1.37 |
| 29 | a | 825 | CLA | C1D-ND | 3.56 | 1.42 | 1.37 |
| 29 | a | 805 | CLA | C1D-ND | 3.56 | 1.42 | 1.37 |
| 29 | a | 820 | CLA | C1D-ND | 3.56 | 1.42 | 1.37 |
| 29 | b | 726 | CLA | C1D-ND | 3.56 | 1.42 | 1.37 |
| 29 | E | 308 | CLA | C1D-ND | 3.56 | 1.42 | 1.37 |
| 29 | b | 725 | CLA | C1D-ND | 3.55 | 1.42 | 1.37 |
| 29 | i | 203 | CLA | C1D-ND | 3.55 | 1.42 | 1.37 |
| 29 | O | 313 | CLA | C1D-ND | 3.55 | 1.42 | 1.37 |
| 29 | L | 312 | CLA | C1D-ND | 3.55 | 1.42 | 1.37 |
| 29 | A | 212 | CLA | C1D-ND | 3.55 | 1.42 | 1.37 |
| 29 | K | 208 | CLA | C1D-ND | 3.55 | 1.42 | 1.37 |
| 29 | D | 313 | CLA | C1D-ND | 3.54 | 1.42 | 1.37 |
| 38 | L | 302 | UIX | C25-C28 | -3.54 | 1.26 | 1.32 |
| 38 | N | 306 | UIX | C25-C28 | -3.54 | 1.26 | 1.32 |
| 29 | G | 313 | CLA | C1D-ND | 3.54 | 1.42 | 1.37 |
| 29 | b | 723 | CLA | C1D-ND | 3.54 | 1.42 | 1.37 |
| 29 | b | 731 | CLA | C1D-ND | 3.53 | 1.42 | 1.37 |
| 29 | K | 218 | CLA | C1D-ND | 3.53 | 1.42 | 1.37 |
| 29 | a | 810 | CLA | C1D-ND | 3.53 | 1.42 | 1.37 |
| 37 | N | 307 | PID | C20-C21 | 3.53 | 1.40 | 1.35 |
| 29 | a | 812 | CLA | C1D-ND | 3.52 | 1.42 | 1.37 |
| 29 | A | 218 | CLA | C1D-ND | 3.52 | 1.42 | 1.37 |
| 29 | I | 210 | CLA | C1D-ND | 3.51 | 1.42 | 1.37 |
| 29 | b | 703 | CLA | C1D-ND | 3.50 | 1.42 | 1.37 |
| 37 | D | 307 | PID | C20-C21 | 3.50 | 1.40 | 1.35 |
| 38 | Q | 305 | UIX | C25-C28 | -3.50 | 1.26 | 1.32 |
| 29 | a | 837 | CLA | C1D-ND | 3.50 | 1.42 | 1.37 |
| 29 | b | 711 | CLA | C1D-ND | 3.49 | 1.42 | 1.37 |
| 29 | a | 802 | CLA | C1D-ND | 3.49 | 1.42 | 1.37 |
| 29 | a | 806 | CLA | C1D-ND | 3.49 | 1.42 | 1.37 |
| 36 | G | 307 | DD6 | C36-C31 | -3.48 | 1.31 | 1.34 |
| 37 | j | 101 | PID | C20-C21 | 3.47 | 1.40 | 1.35 |
| 29 | G | 304 | CLA | C1D-ND | 3.47 | 1.42 | 1.37 |
| 29 | I | 214 | CLA | C1D-ND | 3.46 | 1.42 | 1.37 |
| 38 | C | 306 | UIX | C25-C28 | -3.46 | 1.26 | 1.32 |
| 37 | P | 205 | PID | C20-C21 | 3.46 | 1.40 | 1.35 |
| 29 | b | 714 | CLA | C1D-ND | 3.46 | 1.42 | 1.37 |
| 37 | N | 305 | PID | C20-C21 | 3.45 | 1.40 | 1.35 |
| 29 | l | 503 | CLA | C1D-ND | 3.45 | 1.42 | 1.37 |
| 29 | J | 306 | CLA | C1D-ND | 3.45 | 1.42 | 1.37 |
| 37 | T | 304 | PID | C20-C21 | 3.44 | 1.40 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 29 | B | 310 | CLA | C1D-ND | 3.43 | 1.42 | 1.37 |
| 29 | l | 504 | CLA | C1D-ND | 3.43 | 1.42 | 1.37 |
| 37 | O | 305 | PID | C20-C21 | 3.41 | 1.40 | 1.35 |
| 29 | O | 314 | CLA | CHC-C1C | 3.40 | 1.43 | 1.35 |
| 29 | b | 704 | CLA | C1D-ND | 3.40 | 1.42 | 1.37 |
| 29 | a | 801 | CLA | C4D-ND | -3.40 | 1.33 | 1.37 |
| 29 | A | 217 | CLA | C1D-ND | 3.40 | 1.42 | 1.37 |
| 29 | b | 717 | CLA | C1D-ND | 3.40 | 1.42 | 1.37 |
| 29 | b | 718 | CLA | C1D-ND | 3.39 | 1.41 | 1.37 |
| 37 | C | 305 | PID | C20-C21 | 3.39 | 1.40 | 1.35 |
| 29 | a | 824 | CLA | C1D-ND | 3.38 | 1.41 | 1.37 |
| 29 | F | 310 | CLA | C1D-ND | 3.37 | 1.41 | 1.37 |
| 37 | H | 306 | PID | C20-C21 | 3.36 | 1.40 | 1.35 |
| 29 | A | 214 | CLA | C1D-ND | 3.36 | 1.41 | 1.37 |
| 37 | C | 302 | PID | C20-C21 | 3.36 | 1.40 | 1.35 |
| 37 | H | 304 | PID | C20-C21 | 3.35 | 1.40 | 1.35 |
| 37 | N | 304 | PID | C20-C21 | 3.34 | 1.40 | 1.35 |
| 37 | C | 301 | PID | C20-C21 | 3.33 | 1.40 | 1.35 |
| 37 | H | 302 | PID | C20-C21 | 3.33 | 1.40 | 1.35 |
| 29 | a | 801 | CLA | C1D-ND | 3.33 | 1.41 | 1.37 |
| 29 | E | 306 | CLA | C1D-ND | 3.33 | 1.41 | 1.37 |
| 37 | P | 202 | PID | C20-C21 | 3.32 | 1.40 | 1.35 |
| 29 | a | 802 | CLA | CHC-C1C | 3.32 | 1.43 | 1.35 |
| 29 | N | 313 | CLA | C1D-ND | 3.32 | 1.41 | 1.37 |
| 37 | C | 307 | PID | C20-C21 | 3.31 | 1.40 | 1.35 |
| 29 | b | 705 | CLA | C1D-ND | 3.30 | 1.41 | 1.37 |
| 29 | J | 308 | CLA | C4D-ND | -3.29 | 1.33 | 1.37 |
| 37 | D | 302 | PID | C20-C21 | 3.29 | 1.40 | 1.35 |
| 37 | H | 301 | PID | C20-C21 | 3.29 | 1.40 | 1.35 |
| 37 | O | 301 | PID | C20-C21 | 3.28 | 1.40 | 1.35 |
| 29 | b | 711 | CLA | C4D-ND | -3.26 | 1.33 | 1.37 |
| 37 | N | 301 | PID | C20-C21 | 3.25 | 1.40 | 1.35 |
| 37 | O | 302 | PID | C20-C21 | 3.25 | 1.40 | 1.35 |
| 29 | K | 214 | CLA | C4D-ND | -3.25 | 1.33 | 1.37 |
| 37 | Q | 301 | PID | C20-C21 | 3.24 | 1.40 | 1.35 |
| 29 | N | 309 | CLA | CHC-C1C | 3.24 | 1.43 | 1.35 |
| 29 | H | 312 | CLA | CHC-C1C | 3.24 | 1.43 | 1.35 |
| 29 | b | 719 | CLA | CHC-C1C | 3.24 | 1.43 | 1.35 |
| 29 | M | 311 | CLA | C4D-ND | -3.21 | 1.33 | 1.37 |
| 29 | a | 803 | CLA | C4D-ND | -3.21 | 1.33 | 1.37 |
| 37 | T | 301 | PID | C20-C21 | 3.21 | 1.40 | 1.35 |
| 29 | b | 726 | CLA | C4D-ND | -3.21 | 1.33 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 29 | H | 313 | CLA | C4D-ND | -3.20 | 1.33 | 1.37 |
| 29 | G | 302 | CLA | CHC-C1C | 3.20 | 1.43 | 1.35 |
| 29 | K | 209 | CLA | C4D-ND | -3.19 | 1.33 | 1.37 |
| 29 | K | 209 | CLA | CHC-C1C | 3.19 | 1.43 | 1.35 |
| 29 | I | 209 | CLA | C4D-ND | -3.19 | 1.33 | 1.37 |
| 37 | G | 303 | PID | C20-C21 | 3.19 | 1.40 | 1.35 |
| 29 | Q | 308 | CLA | CHC-C1C | 3.19 | 1.43 | 1.35 |
| 29 | b | 716 | CLA | C4D-ND | -3.19 | 1.33 | 1.37 |
| 29 | a | 808 | CLA | CHC-C1C | 3.19 | 1.43 | 1.35 |
| 29 | O | 316 | CLA | CHC-C1C | 3.19 | 1.43 | 1.35 |
| 37 | C | 304 | PID | C20-C21 | 3.19 | 1.40 | 1.35 |
| 29 | P | 214 | CLA | CHC-C1C | 3.18 | 1.43 | 1.35 |
| 29 | B | 308 | CLA | C4D-ND | -3.18 | 1.33 | 1.37 |
| 29 | M | 311 | CLA | CHC-C1C | 3.18 | 1.43 | 1.35 |
| 29 | J | 310 | CLA | C4D-ND | -3.18 | 1.33 | 1.37 |
| 29 | M | 313 | CLA | CHC-C1C | 3.18 | 1.43 | 1.35 |
| 29 | P | 215 | CLA | CHC-C1C | 3.18 | 1.43 | 1.35 |
| 29 | J | 310 | CLA | CHC-C1C | 3.18 | 1.43 | 1.35 |
| 29 | h | 201 | CLA | CHC-C1C | 3.17 | 1.43 | 1.35 |
| 29 | M | 307 | CLA | CHC-C1C | 3.17 | 1.43 | 1.35 |
| 29 | P | 212 | CLA | CHC-C1C | 3.17 | 1.43 | 1.35 |
| 29 | b | 714 | CLA | CHC-C1C | 3.17 | 1.43 | 1.35 |
| 29 | T | 313 | CLA | CHC-C1C | 3.17 | 1.43 | 1.35 |
| 29 | a | 823 | CLA | CHC-C1C | 3.17 | 1.43 | 1.35 |
| 29 | L | 315 | CLA | CHC-C1C | 3.17 | 1.43 | 1.35 |
| 29 | b | 703 | CLA | CHC-C1C | 3.17 | 1.43 | 1.35 |
| 29 | K | 210 | CLA | CHC-C1C | 3.17 | 1.43 | 1.35 |
| 29 | I | 210 | CLA | C4D-ND | -3.17 | 1.33 | 1.37 |
| 29 | a | 823 | CLA | C4D-ND | -3.17 | 1.33 | 1.37 |
| 29 | b | 723 | CLA | CHC-C1C | 3.17 | 1.43 | 1.35 |
| 29 | I | 201 | CLA | CHC-C1C | 3.17 | 1.43 | 1.35 |
| 37 | Q | 304 | PID | C20-C21 | 3.17 | 1.40 | 1.35 |
| 29 | L | 308 | CLA | C4D-ND | -3.17 | 1.33 | 1.37 |
| 29 | b | 705 | CLA | CHC-C1C | 3.16 | 1.43 | 1.35 |
| 29 | I | 210 | CLA | CHC-C1C | 3.16 | 1.43 | 1.35 |
| 29 | E | 311 | CLA | CHC-C1C | 3.16 | 1.43 | 1.35 |
| 29 | b | 717 | CLA | C4D-ND | -3.16 | 1.33 | 1.37 |
| 29 | b | 724 | CLA | CHC-C1C | 3.16 | 1.43 | 1.35 |
| 29 | E | 313 | CLA | CHC-C1C | 3.16 | 1.43 | 1.35 |
| 29 | K | 213 | CLA | CHC-C1C | 3.16 | 1.43 | 1.35 |
| 29 | O | 314 | CLA | C4D-ND | -3.15 | 1.33 | 1.37 |
| 29 | D | 311 | CLA | CHC-C1C | 3.15 | 1.43 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 29 | I | 211 | CLA | CHC-C1C | 3.15 | 1.43 | 1.35 |
| 29 | D | 313 | CLA | CHC-C1C | 3.15 | 1.43 | 1.35 |
| 37 | O | 304 | PID | C20-C21 | 3.15 | 1.40 | 1.35 |
| 29 | a | 806 | CLA | CHC-C1C | 3.15 | 1.43 | 1.35 |
| 29 | K | 214 | CLA | CHC-C1C | 3.15 | 1.43 | 1.35 |
| 29 | I | 213 | CLA | CHC-C1C | 3.15 | 1.43 | 1.35 |
| 29 | Q | 315 | CLA | CHC-C1C | 3.15 | 1.43 | 1.35 |
| 29 | E | 314 | CLA | CHC-C1C | 3.15 | 1.43 | 1.35 |
| 37 | D | 306 | PID | C20-C21 | 3.15 | 1.40 | 1.35 |
| 29 | a | 837 | CLA | CHC-C1C | 3.14 | 1.43 | 1.35 |
| 29 | O | 309 | CLA | CHC-C1C | 3.14 | 1.43 | 1.35 |
| 29 | M | 309 | CLA | CHC-C1C | 3.14 | 1.43 | 1.35 |
| 29 | L | 312 | CLA | CHC-C1C | 3.14 | 1.43 | 1.35 |
| 29 | N | 316 | CLA | CHC-C1C | 3.14 | 1.43 | 1.35 |
| 29 | O | 311 | CLA | CHC-C1C | 3.14 | 1.43 | 1.35 |
| 29 | b | 706 | CLA | C4D-ND | -3.14 | 1.33 | 1.37 |
| 29 | a | 825 | CLA | CMB-C2B | -3.14 | 1.45 | 1.51 |
| 29 | b | 736 | CLA | CHC-C1C | 3.14 | 1.43 | 1.35 |
| 29 | a | 821 | CLA | CHC-C1C | 3.14 | 1.43 | 1.35 |
| 29 | a | 824 | CLA | CHC-C1C | 3.14 | 1.43 | 1.35 |
| 29 | F | 307 | CLA | CHC-C1C | 3.14 | 1.43 | 1.35 |
| 29 | a | 812 | CLA | C4D-ND | -3.14 | 1.33 | 1.37 |
| 29 | M | 310 | CLA | CHC-C1C | 3.14 | 1.43 | 1.35 |
| 29 | F | 310 | CLA | CHC-C1C | 3.14 | 1.43 | 1.35 |
| 29 | a | 818 | CLA | CHC-C1C | 3.14 | 1.43 | 1.35 |
| 29 | i | 202 | CLA | C4D-ND | -3.14 | 1.33 | 1.37 |
| 29 | F | 308 | CLA | C4D-ND | -3.14 | 1.33 | 1.37 |
| 29 | A | 208 | CLA | C4D-ND | -3.13 | 1.33 | 1.37 |
| 29 | A | 217 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 29 | J | 305 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 29 | b | 711 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 29 | l | 504 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 29 | G | 317 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 29 | E | 308 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 37 | F | 306 | PID | C20-C21 | 3.13 | 1.39 | 1.35 |
| 29 | H | 315 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 29 | O | 308 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 29 | a | 824 | CLA | C4D-ND | -3.13 | 1.33 | 1.37 |
| 39 | K | 215 | KC1 | C4B-NB | -3.13 | 1.33 | 1.37 |
| 29 | L | 317 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 29 | H | 310 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 29 | L | 313 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 29 | T | 309 | CLA | C4D-ND | -3.13 | 1.33 | 1.37 |
| 29 | a | 805 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 37 | F | 302 | PID | C20-C21 | 3.13 | 1.39 | 1.35 |
| 29 | K | 218 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 29 | G | 301 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 29 | D | 309 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 29 | b | 709 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 29 | A | 211 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 29 | Q | 312 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 29 | b | 724 | CLA | C4D-ND | -3.13 | 1.33 | 1.37 |
| 29 | A | 208 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 29 | C | 311 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 29 | B | 310 | CLA | CHC-C1C | 3.13 | 1.43 | 1.35 |
| 29 | b | 736 | CLA | C4D-ND | -3.12 | 1.33 | 1.37 |
| 29 | G | 312 | CLA | CHC-C1C | 3.12 | 1.43 | 1.35 |
| 29 | b | 731 | CLA | CHC-C1C | 3.12 | 1.43 | 1.35 |
| 29 | l | 501 | CLA | CHC-C1C | 3.12 | 1.43 | 1.35 |
| 29 | A | 207 | CLA | CHC-C1C | 3.12 | 1.43 | 1.35 |
| 29 | B | 311 | CLA | CHC-C1C | 3.12 | 1.43 | 1.35 |
| 29 | l | 508 | CLA | CHC-C1C | 3.12 | 1.43 | 1.35 |
| 29 | D | 308 | CLA | CHC-C1C | 3.12 | 1.43 | 1.35 |
| 29 | C | 308 | CLA | CHC-C1C | 3.12 | 1.43 | 1.35 |
| 29 | A | 209 | CLA | CHC-C1C | 3.12 | 1.43 | 1.35 |
| 29 | l | 503 | CLA | CHC-C1C | 3.12 | 1.43 | 1.35 |
| 29 | A | 218 | CLA | CHC-C1C | 3.12 | 1.43 | 1.35 |
| 29 | b | 720 | CLA | CHC-C1C | 3.12 | 1.43 | 1.35 |
| 29 | J | 313 | CLA | CHC-C1C | 3.12 | 1.43 | 1.35 |
| 29 | F | 316 | CLA | CHC-C1C | 3.12 | 1.43 | 1.35 |
| 29 | A | 207 | CLA | C4D-ND | -3.12 | 1.33 | 1.37 |
| 29 | A | 212 | CLA | C4D-ND | -3.12 | 1.33 | 1.37 |
| 29 | F | 315 | CLA | CHC-C1C | 3.12 | 1.43 | 1.35 |
| 29 | I | 216 | CLA | CHC-C1C | 3.12 | 1.43 | 1.35 |
| 29 | L | 308 | CLA | CHC-C1C | 3.12 | 1.43 | 1.35 |
| 29 | H | 313 | CLA | CHC-C1C | 3.12 | 1.43 | 1.35 |
| 29 | a | 813 | CLA | CHC-C1C | 3.11 | 1.43 | 1.35 |
| 29 | b | 710 | CLA | CHC-C1C | 3.11 | 1.43 | 1.35 |
| 29 | E | 310 | CLA | CHC-C1C | 3.11 | 1.43 | 1.35 |
| 29 | P | 209 | CLA | CHC-C1C | 3.11 | 1.43 | 1.35 |
| 29 | a | 807 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 29 | O | 313 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 29 | T | 311 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 29 | b | 707 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 29 | T | 316 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 29 | K | 207 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 29 | I | 214 | CLA | C4D-ND | -3.11 | 1.33 | 1.37 |
| 29 | A | 212 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 29 | A | 214 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 29 | a | 807 | CLA | C4D-ND | -3.11 | 1.33 | 1.37 |
| 37 | P | 203 | PID | C20-C21 | 3.11 | 1.39 | 1.35 |
| 29 | a | 817 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 29 | T | 309 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 29 | M | 315 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 29 | b | 714 | CLA | C4D-ND | -3.11 | 1.33 | 1.37 |
| 29 | N | 313 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 29 | C | 309 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 29 | C | 313 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 29 | L | 310 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 29 | H | 308 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 29 | H | 307 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 29 | N | 308 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 29 | L | 311 | CLA | CHC-C1C | 3.11 | 1.42 | 1.35 |
| 29 | a | 802 | CLA | C4D-ND | -3.11 | 1.33 | 1.37 |
| 29 | a | 814 | CLA | C4D-ND | -3.11 | 1.33 | 1.37 |
| 29 | G | 311 | CLA | CHC-C1C | 3.10 | 1.42 | 1.35 |
| 29 | K | 216 | CLA | CHC-C1C | 3.10 | 1.42 | 1.35 |
| 29 | G | 316 | CLA | C4D-ND | -3.10 | 1.33 | 1.37 |
| 29 | N | 311 | CLA | CHC-C1C | 3.10 | 1.42 | 1.35 |
| 29 | M | 309 | CLA | C4D-ND | -3.10 | 1.33 | 1.37 |
| 29 | Q | 310 | CLA | CHC-C1C | 3.10 | 1.42 | 1.35 |
| 29 | B | 312 | CLA | C4D-ND | -3.10 | 1.33 | 1.37 |
| 29 | a | 827 | CLA | CHC-C1C | 3.10 | 1.42 | 1.35 |
| 29 | D | 314 | CLA | CHC-C1C | 3.10 | 1.42 | 1.35 |
| 29 | A | 218 | CLA | C4D-ND | -3.10 | 1.33 | 1.37 |
| 29 | a | 812 | CLA | CHC-C1C | 3.10 | 1.42 | 1.35 |
| 29 | K | 211 | CLA | CHC-C1C | 3.10 | 1.42 | 1.35 |
| 36 | I | 205 | DD6 | O1-C20 | -3.10 | 1.41 | 1.46 |
| 29 | B | 308 | CLA | CHC-C1C | 3.10 | 1.42 | 1.35 |
| 29 | N | 314 | CLA | CHC-C1C | 3.10 | 1.42 | 1.35 |
| 29 | E | 308 | CLA | C4D-ND | -3.10 | 1.33 | 1.37 |
| 29 | E | 311 | CLA | C4D-ND | -3.10 | 1.33 | 1.37 |
| 29 | a | 826 | CLA | CHC-C1C | 3.10 | 1.42 | 1.35 |
| 29 | Q | 307 | CLA | CHC-C1C | 3.10 | 1.42 | 1.35 |
| 29 | b | 701 | CLA | CHC-C1C | 3.10 | 1.42 | 1.35 |
| 29 | a | 827 | CLA | C4D-ND | -3.10 | 1.33 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 29 | a | 809 | CLA | CHC-C1C | 3.10 | 1.42 | 1.35 |
| 37 | T | 307 | PID | C20-C21 | 3.10 | 1.39 | 1.35 |
| 29 | B | 312 | CLA | CHC-C1C | 3.10 | 1.42 | 1.35 |
| 29 | b | 715 | CLA | C4D-ND | -3.09 | 1.33 | 1.37 |
| 29 | J | 307 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | M | 307 | CLA | C4D-ND | -3.09 | 1.33 | 1.37 |
| 29 | Q | 310 | CLA | C4D-ND | -3.09 | 1.33 | 1.37 |
| 29 | Q | 313 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 37 | O | 307 | PID | C20-C21 | 3.09 | 1.39 | 1.35 |
| 29 | G | 313 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | J | 308 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | a | 831 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | I | 214 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | F | 308 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | T | 308 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | b | 708 | CLA | C4D-ND | -3.09 | 1.33 | 1.37 |
| 29 | b | 725 | CLA | C4D-ND | -3.09 | 1.33 | 1.37 |
| 29 | a | 816 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | a | 830 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | E | 309 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | a | 820 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | a | 808 | CLA | C4D-ND | -3.09 | 1.33 | 1.37 |
| 29 | f | 805 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | E | 306 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | M | 306 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | L | 309 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | L | 313 | CLA | C4D-ND | -3.09 | 1.33 | 1.37 |
| 29 | a | 828 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | J | 306 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | D | 316 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | E | 315 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | a | 814 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | B | 316 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | B | 309 | CLA | CHC-C1C | 3.09 | 1.42 | 1.35 |
| 29 | b | 721 | CLA | CHC-C1C | 3.08 | 1.42 | 1.35 |
| 29 | B | 307 | CLA | CHC-C1C | 3.08 | 1.42 | 1.35 |
| 29 | b | 717 | CLA | CHC-C1C | 3.08 | 1.42 | 1.35 |
| 29 | A | 216 | CLA | CHC-C1C | 3.08 | 1.42 | 1.35 |
| 29 | P | 210 | CLA | CHC-C1C | 3.08 | 1.42 | 1.35 |
| 29 | G | 319 | CLA | CHC-C1C | 3.08 | 1.42 | 1.35 |
| 29 | a | 806 | CLA | C4D-ND | -3.08 | 1.33 | 1.37 |
| 29 | l | 502 | CLA | C4D-ND | -3.08 | 1.33 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 29 | b | 713 | CLA | CHC-C1C | 3.08 | 1.42 | 1.35 |
| 29 | I | 208 | CLA | CHC-C1C | 3.08 | 1.42 | 1.35 |
| 29 | G | 304 | CLA | CHC-C1C | 3.08 | 1.42 | 1.35 |
| 29 | a | 826 | CLA | C4D-ND | -3.08 | 1.33 | 1.37 |
| 29 | l | 504 | CLA | C4D-ND | -3.08 | 1.33 | 1.37 |
| 29 | l | 509 | CLA | CHC-C1C | 3.08 | 1.42 | 1.35 |
| 29 | J | 311 | CLA | C4D-ND | -3.08 | 1.33 | 1.37 |
| 29 | l | 505 | CLA | CHC-C1C | 3.08 | 1.42 | 1.35 |
| 29 | B | 315 | CLA | CHC-C1C | 3.07 | 1.42 | 1.35 |
| 29 | l | 502 | CLA | CHC-C1C | 3.07 | 1.42 | 1.35 |
| 29 | a | 815 | CLA | CHC-C1C | 3.07 | 1.42 | 1.35 |
| 29 | a | 822 | CLA | CHC-C1C | 3.07 | 1.42 | 1.35 |
| 29 | a | 811 | CLA | CHC-C1C | 3.07 | 1.42 | 1.35 |
| 29 | a | 811 | CLA | C4D-ND | -3.07 | 1.33 | 1.37 |
| 29 | F | 311 | CLA | CHC-C1C | 3.07 | 1.42 | 1.35 |
| 29 | a | 830 | CLA | C4D-ND | -3.07 | 1.33 | 1.37 |
| 29 | b | 722 | CLA | CHC-C1C | 3.07 | 1.42 | 1.35 |
| 29 | Q | 313 | CLA | C4D-ND | -3.07 | 1.33 | 1.37 |
| 37 | h | 204 | PID | C20-C21 | 3.07 | 1.39 | 1.35 |
| 29 | Q | 308 | CLA | C4D-ND | -3.07 | 1.33 | 1.37 |
| 29 | b | 703 | CLA | C4D-ND | -3.07 | 1.33 | 1.37 |
| 29 | B | 314 | CLA | CHC-C1C | 3.07 | 1.42 | 1.35 |
| 29 | K | 210 | CLA | C4D-ND | -3.07 | 1.33 | 1.37 |
| 29 | C | 309 | CLA | C4D-ND | -3.07 | 1.33 | 1.37 |
| 29 | I | 209 | CLA | CHC-C1C | 3.07 | 1.42 | 1.35 |
| 29 | b | 731 | CLA | C4D-ND | -3.06 | 1.33 | 1.37 |
| 29 | a | 819 | CLA | CHC-C1C | 3.06 | 1.42 | 1.35 |
| 29 | G | 312 | CLA | C4D-ND | -3.06 | 1.33 | 1.37 |
| 29 | P | 217 | CLA | CHC-C1C | 3.06 | 1.42 | 1.35 |
| 29 | A | 206 | CLA | CHC-C1C | 3.06 | 1.42 | 1.35 |
| 29 | J | 311 | CLA | CHC-C1C | 3.06 | 1.42 | 1.35 |
| 29 | l | 510 | CLA | CHC-C1C | 3.06 | 1.42 | 1.35 |
| 29 | K | 208 | CLA | CHC-C1C | 3.06 | 1.42 | 1.35 |
| 29 | I | 216 | CLA | C4D-ND | -3.06 | 1.33 | 1.37 |
| 29 | L | 309 | CLA | C4D-ND | -3.06 | 1.33 | 1.37 |
| 29 | K | 213 | CLA | C4D-ND | -3.06 | 1.33 | 1.37 |
| 29 | K | 212 | CLA | C4D-ND | -3.06 | 1.33 | 1.37 |
| 29 | I | 212 | CLA | C4D-ND | -3.06 | 1.33 | 1.37 |
| 29 | b | 723 | CLA | C4D-ND | -3.05 | 1.33 | 1.37 |
| 39 | Q | 311 | KC1 | C4B-NB | -3.05 | 1.34 | 1.37 |
| 29 | K | 208 | CLA | C4D-ND | -3.05 | 1.33 | 1.37 |
| 29 | i | 203 | CLA | C4D-ND | -3.05 | 1.33 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 29 | A | 210 | CLA | CHC-C1C | 3.05 | 1.42 | 1.35 |
| 29 | D | 312 | CLA | CHC-C1C | 3.05 | 1.42 | 1.35 |
| 29 | a | 829 | CLA | C4D-ND | -3.05 | 1.33 | 1.37 |
| 29 | b | 716 | CLA | CHC-C1C | 3.05 | 1.42 | 1.35 |
| 29 | a | 831 | CLA | C4D-ND | -3.05 | 1.33 | 1.37 |
| 29 | J | 309 | CLA | CHC-C1C | 3.05 | 1.42 | 1.35 |
| 29 | a | 804 | CLA | CHC-C1C | 3.05 | 1.42 | 1.35 |
| 29 | f | 803 | CLA | CHC-C1C | 3.04 | 1.42 | 1.35 |
| 29 | D | 313 | CLA | C4D-ND | -3.04 | 1.33 | 1.37 |
| 29 | f | 803 | CLA | C4D-ND | -3.04 | 1.33 | 1.37 |
| 29 | i | 201 | CLA | CHC-C1C | 3.04 | 1.42 | 1.35 |
| 29 | G | 317 | CLA | C4D-ND | -3.04 | 1.33 | 1.37 |
| 29 | a | 803 | CLA | CHC-C1C | 3.04 | 1.42 | 1.35 |
| 29 | f | 802 | CLA | CHC-C1C | 3.04 | 1.42 | 1.35 |
| 29 | b | 726 | CLA | CHC-C1C | 3.04 | 1.42 | 1.35 |
| 29 | f | 802 | CLA | C4D-ND | -3.04 | 1.33 | 1.37 |
| 37 | F | 304 | PID | C20-C21 | 3.04 | 1.39 | 1.35 |
| 29 | b | 704 | CLA | CHC-C1C | 3.04 | 1.42 | 1.35 |
| 29 | b | 712 | CLA | CHC-C1C | 3.04 | 1.42 | 1.35 |
| 29 | i | 203 | CLA | CHC-C1C | 3.04 | 1.42 | 1.35 |
| 29 | L | 307 | CLA | CHC-C1C | 3.04 | 1.42 | 1.35 |
| 29 | h | 201 | CLA | C4D-ND | -3.04 | 1.33 | 1.37 |
| 29 | N | 311 | CLA | C4D-ND | -3.04 | 1.33 | 1.37 |
| 29 | I | 212 | CLA | CHC-C1C | 3.04 | 1.42 | 1.35 |
| 37 | Q | 306 | PID | C20-C21 | 3.04 | 1.39 | 1.35 |
| 29 | B | 306 | CLA | CHC-C1C | 3.04 | 1.42 | 1.35 |
| 37 | T | 305 | PID | C20-C21 | 3.04 | 1.39 | 1.35 |
| 29 | F | 312 | CLA | CHC-C1C | 3.04 | 1.42 | 1.35 |
| 29 | b | 718 | CLA | CMB-C2B | -3.04 | 1.45 | 1.51 |
| 29 | K | 217 | CLA | CHC-C1C | 3.04 | 1.42 | 1.35 |
| 29 | b | 712 | CLA | C4D-ND | -3.03 | 1.33 | 1.37 |
| 29 | K | 211 | CLA | C4D-ND | -3.03 | 1.33 | 1.37 |
| 29 | D | 312 | CLA | C4D-ND | -3.03 | 1.33 | 1.37 |
| 29 | G | 314 | CLA | CHC-C1C | 3.03 | 1.42 | 1.35 |
| 29 | b | 725 | CLA | CHC-C1C | 3.03 | 1.42 | 1.35 |
| 29 | T | 314 | CLA | CHC-C1C | 3.03 | 1.42 | 1.35 |
| 29 | C | 314 | CLA | CHC-C1C | 3.03 | 1.42 | 1.35 |
| 29 | b | 722 | CLA | C4D-ND | -3.03 | 1.33 | 1.37 |
| 29 | b | 702 | CLA | CHC-C1C | 3.03 | 1.42 | 1.35 |
| 29 | E | 315 | CLA | C4D-ND | -3.03 | 1.33 | 1.37 |
| 29 | b | 705 | CLA | C4D-ND | -3.03 | 1.33 | 1.37 |
| 29 | b | 719 | CLA | C4D-ND | -3.03 | 1.33 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 29 | a | 837 | CLA | C4D-ND | -3.03 | 1.33 | 1.37 |
| 29 | b | 709 | CLA | C4D-ND | -3.02 | 1.33 | 1.37 |
| 29 | j | 104 | CLA | CHC-C1C | 3.02 | 1.42 | 1.35 |
| 29 | B | 309 | CLA | C4D-ND | -3.02 | 1.33 | 1.37 |
| 29 | b | 710 | CLA | C4D-ND | -3.02 | 1.33 | 1.37 |
| 29 | I | 207 | CLA | C4D-ND | -3.02 | 1.33 | 1.37 |
| 29 | A | 209 | CLA | C4D-ND | -3.02 | 1.33 | 1.37 |
| 29 | L | 316 | CLA | C4D-ND | -3.02 | 1.33 | 1.37 |
| 29 | a | 810 | CLA | CHC-C1C | 3.02 | 1.42 | 1.35 |
| 29 | B | 316 | CLA | C4D-ND | -3.02 | 1.33 | 1.37 |
| 29 | M | 308 | CLA | CHC-C1C | 3.02 | 1.42 | 1.35 |
| 37 | D | 303 | PID | C20-C21 | 3.02 | 1.39 | 1.35 |
| 29 | b | 713 | CLA | C4D-ND | -3.02 | 1.33 | 1.37 |
| 29 | L | 316 | CLA | CHC-C1C | 3.02 | 1.42 | 1.35 |
| 29 | a | 829 | CLA | CHC-C1C | 3.02 | 1.42 | 1.35 |
| 29 | G | 301 | CLA | C4D-ND | -3.02 | 1.33 | 1.37 |
| 29 | F | 313 | CLA | C4D-ND | -3.02 | 1.33 | 1.37 |
| 37 | Q | 303 | PID | C20-C21 | 3.02 | 1.39 | 1.35 |
| 29 | J | 307 | CLA | C4D-ND | -3.01 | 1.33 | 1.37 |
| 29 | J | 313 | CLA | C4D-ND | -3.01 | 1.33 | 1.37 |
| 29 | a | 819 | CLA | C4D-ND | -3.01 | 1.33 | 1.37 |
| 29 | J | 305 | CLA | C4D-ND | -3.01 | 1.33 | 1.37 |
| 29 | B | 311 | CLA | C4D-ND | -3.01 | 1.33 | 1.37 |
| 29 | E | 305 | CLA | CHC-C1C | 3.01 | 1.42 | 1.35 |
| 29 | I | 208 | CLA | C4D-ND | -3.01 | 1.33 | 1.37 |
| 29 | l | 501 | CLA | C4D-ND | -3.01 | 1.33 | 1.37 |
| 29 | l | 503 | CLA | C4D-ND | -3.01 | 1.33 | 1.37 |
| 29 | M | 314 | CLA | CHC-C1C | 3.01 | 1.42 | 1.35 |
| 29 | b | 701 | CLA | C4D-ND | -3.01 | 1.33 | 1.37 |
| 29 | E | 306 | CLA | C4D-ND | -3.01 | 1.33 | 1.37 |
| 29 | i | 202 | CLA | CHC-C1C | 3.01 | 1.42 | 1.35 |
| 29 | K | 212 | CLA | CHC-C1C | 3.01 | 1.42 | 1.35 |
| 29 | C | 311 | CLA | C4D-ND | -3.01 | 1.33 | 1.37 |
| 29 | L | 311 | CLA | C4D-ND | -3.01 | 1.33 | 1.37 |
| 29 | b | 720 | CLA | C4D-ND | -3.00 | 1.33 | 1.37 |
| 29 | a | 818 | CLA | C4D-ND | -3.00 | 1.33 | 1.37 |
| 29 | a | 805 | CLA | C4D-ND | -3.00 | 1.33 | 1.37 |
| 29 | P | 210 | CLA | C4D-ND | -3.00 | 1.33 | 1.37 |
| 29 | b | 721 | CLA | C4D-ND | -3.00 | 1.33 | 1.37 |
| 29 | A | 217 | CLA | C4D-ND | -3.00 | 1.33 | 1.37 |
| 29 | M | 313 | CLA | C4D-ND | -3.00 | 1.33 | 1.37 |
| 29 | B | 307 | CLA | C4D-ND | -2.99 | 1.33 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 29 | b | 718 | CLA | C4D-ND | -2.99 | 1.33 | 1.37 |
| 29 | I | 213 | CLA | C4D-ND | -2.99 | 1.33 | 1.37 |
| 29 | O | 309 | CLA | C4D-ND | -2.99 | 1.33 | 1.37 |
| 29 | K | 218 | CLA | C4D-ND | -2.99 | 1.33 | 1.37 |
| 29 | M | 314 | CLA | C4D-ND | -2.99 | 1.33 | 1.37 |
| 29 | N | 314 | CLA | C4D-ND | -2.99 | 1.33 | 1.37 |
| 29 | l | 505 | CLA | C4D-ND | -2.99 | 1.33 | 1.37 |
| 29 | H | 308 | CLA | C4D-ND | -2.99 | 1.33 | 1.37 |
| 29 | O | 313 | CLA | C4D-ND | -2.99 | 1.33 | 1.37 |
| 29 | I | 217 | CLA | CHC-C1C | 2.99 | 1.42 | 1.35 |
| 29 | A | 211 | CLA | C4D-ND | -2.99 | 1.33 | 1.37 |
| 29 | a | 809 | CLA | C4D-ND | -2.99 | 1.33 | 1.37 |
| 29 | M | 310 | CLA | C4D-ND | -2.99 | 1.33 | 1.37 |
| 29 | L | 317 | CLA | C4D-ND | -2.99 | 1.33 | 1.37 |
| 29 | a | 813 | CLA | C4D-ND | -2.98 | 1.33 | 1.37 |
| 29 | L | 315 | CLA | C4D-ND | -2.98 | 1.33 | 1.37 |
| 29 | E | 310 | CLA | C4D-ND | -2.98 | 1.33 | 1.37 |
| 29 | a | 822 | CLA | C4D-ND | -2.98 | 1.33 | 1.37 |
| 29 | K | 217 | CLA | C4D-ND | -2.98 | 1.33 | 1.37 |
| 29 | E | 313 | CLA | C4D-ND | -2.98 | 1.33 | 1.37 |
| 29 | A | 215 | CLA | C4D-ND | -2.98 | 1.33 | 1.37 |
| 29 | G | 316 | CLA | CHC-C1C | 2.98 | 1.42 | 1.35 |
| 29 | Q | 307 | CLA | C4D-ND | -2.98 | 1.33 | 1.37 |
| 29 | C | 316 | CLA | CHC-C1C | 2.98 | 1.42 | 1.35 |
| 29 | b | 704 | CLA | C4D-ND | -2.98 | 1.33 | 1.37 |
| 29 | I | 207 | CLA | CHC-C1C | 2.98 | 1.42 | 1.35 |
| 29 | I | 217 | CLA | C4D-ND | -2.97 | 1.33 | 1.37 |
| 29 | B | 306 | CLA | C4D-ND | -2.97 | 1.33 | 1.37 |
| 29 | a | 825 | CLA | C4D-ND | -2.97 | 1.33 | 1.37 |
| 29 | M | 308 | CLA | C4D-ND | -2.97 | 1.33 | 1.37 |
| 29 | B | 310 | CLA | C4D-ND | -2.97 | 1.33 | 1.37 |
| 29 | P | 212 | CLA | C4D-ND | -2.97 | 1.33 | 1.37 |
| 29 | a | 810 | CLA | C4D-ND | -2.97 | 1.33 | 1.37 |
| 29 | a | 820 | CLA | C4D-ND | -2.97 | 1.33 | 1.37 |
| 29 | G | 313 | CLA | C4D-ND | -2.97 | 1.33 | 1.37 |
| 29 | C | 308 | CLA | C4D-ND | -2.97 | 1.33 | 1.37 |
| 29 | A | 215 | CLA | CHC-C1C | 2.97 | 1.42 | 1.35 |
| 29 | G | 304 | CLA | C4D-ND | -2.97 | 1.33 | 1.37 |
| 29 | I | 201 | CLA | C4D-ND | -2.97 | 1.33 | 1.37 |
| 29 | T | 311 | CLA | C4D-ND | -2.97 | 1.33 | 1.37 |
| 37 | G | 309 | PID | C20-C21 | 2.97 | 1.39 | 1.35 |
| 29 | J | 306 | CLA | C4D-ND | -2.97 | 1.33 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 29 | b | 702 | CLA | C4D-ND | -2.97 | 1.33 | 1.37 |
| 29 | K | 207 | CLA | C4D-ND | -2.97 | 1.33 | 1.37 |
| 29 | L | 310 | CLA | C4D-ND | -2.97 | 1.33 | 1.37 |
| 29 | H | 310 | CLA | C4D-ND | -2.96 | 1.33 | 1.37 |
| 29 | l | 509 | CLA | C4D-ND | -2.96 | 1.33 | 1.37 |
| 29 | D | 311 | CLA | C4D-ND | -2.96 | 1.33 | 1.37 |
| 29 | O | 311 | CLA | C4D-ND | -2.96 | 1.33 | 1.37 |
| 29 | E | 314 | CLA | C4D-ND | -2.96 | 1.33 | 1.37 |
| 29 | F | 313 | CLA | CHC-C1C | 2.96 | 1.42 | 1.35 |
| 29 | G | 314 | CLA | C4D-ND | -2.96 | 1.33 | 1.37 |
| 39 | G | 315 | KC1 | C4B-NB | -2.96 | 1.34 | 1.37 |
| 29 | E | 305 | CLA | C4D-ND | -2.96 | 1.33 | 1.37 |
| 37 | N | 302 | PID | C20-C21 | 2.96 | 1.39 | 1.35 |
| 29 | J | 309 | CLA | C4D-ND | -2.96 | 1.33 | 1.37 |
| 29 | D | 309 | CLA | C4D-ND | -2.96 | 1.33 | 1.37 |
| 29 | I | 211 | CLA | C4D-ND | -2.95 | 1.33 | 1.37 |
| 29 | E | 309 | CLA | C4D-ND | -2.95 | 1.33 | 1.37 |
| 39 | G | 318 | KC1 | C4B-NB | -2.95 | 1.34 | 1.37 |
| 29 | M | 315 | CLA | C4D-ND | -2.95 | 1.33 | 1.37 |
| 29 | i | 201 | CLA | C4D-ND | -2.95 | 1.33 | 1.37 |
| 29 | b | 715 | CLA | CHC-C1C | 2.95 | 1.42 | 1.35 |
| 29 | D | 314 | CLA | C4D-ND | -2.95 | 1.33 | 1.37 |
| 29 | O | 308 | CLA | C4D-ND | -2.95 | 1.33 | 1.37 |
| 29 | b | 718 | CLA | CHC-C1C | 2.95 | 1.42 | 1.35 |
| 29 | A | 216 | CLA | C4D-ND | -2.94 | 1.33 | 1.37 |
| 29 | b | 708 | CLA | CHC-C1C | 2.94 | 1.42 | 1.35 |
| 29 | T | 308 | CLA | C4D-ND | -2.94 | 1.33 | 1.37 |
| 29 | a | 828 | CLA | C4D-ND | -2.94 | 1.33 | 1.37 |
| 29 | K | 216 | CLA | C4D-ND | -2.94 | 1.33 | 1.37 |
| 29 | A | 214 | CLA | C4D-ND | -2.94 | 1.33 | 1.37 |
| 29 | a | 817 | CLA | C4D-ND | -2.94 | 1.33 | 1.37 |
| 29 | G | 311 | CLA | C4D-ND | -2.94 | 1.33 | 1.37 |
| 29 | B | 314 | CLA | C4D-ND | -2.94 | 1.33 | 1.37 |
| 29 | F | 312 | CLA | C4D-ND | -2.94 | 1.33 | 1.37 |
| 29 | b | 707 | CLA | C4D-ND | -2.94 | 1.33 | 1.37 |
| 29 | D | 316 | CLA | C4D-ND | -2.94 | 1.33 | 1.37 |
| 37 | T | 317 | PID | C20-C21 | 2.94 | 1.39 | 1.35 |
| 39 | L | 314 | KC1 | C4B-NB | -2.94 | 1.34 | 1.37 |
| 29 | a | 801 | CLA | CHC-C1C | 2.94 | 1.42 | 1.35 |
| 29 | G | 319 | CLA | C4D-ND | -2.93 | 1.33 | 1.37 |
| 29 | A | 210 | CLA | C4D-ND | -2.93 | 1.33 | 1.37 |
| 39 | G | 315 | KC1 | CBA-CGA | -2.93 | 1.41 | 1.48 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 29 | T | 314 | CLA | C4D-ND | -2.93 | 1.33 | 1.37 |
| 29 | Q | 312 | CLA | C4D-ND | -2.93 | 1.33 | 1.37 |
| 29 | B | 315 | CLA | C4D-ND | -2.93 | 1.33 | 1.37 |
| 39 | H | 309 | KC1 | CBA-CGA | -2.92 | 1.41 | 1.48 |
| 29 | F | 310 | CLA | C4D-ND | -2.92 | 1.33 | 1.37 |
| 29 | N | 313 | CLA | C4D-ND | -2.92 | 1.33 | 1.37 |
| 29 | a | 816 | CLA | C4D-ND | -2.92 | 1.33 | 1.37 |
| 29 | G | 302 | CLA | C4D-ND | -2.92 | 1.33 | 1.37 |
| 29 | a | 804 | CLA | C4D-ND | -2.92 | 1.33 | 1.37 |
| 36 | I | 204 | DD6 | O1-C20 | -2.92 | 1.42 | 1.46 |
| 29 | T | 313 | CLA | C4D-ND | -2.92 | 1.33 | 1.37 |
| 29 | l | 510 | CLA | C4D-ND | -2.91 | 1.33 | 1.37 |
| 37 | D | 305 | PID | C20-C21 | 2.91 | 1.39 | 1.35 |
| 29 | L | 312 | CLA | C4D-ND | -2.91 | 1.33 | 1.37 |
| 29 | M | 306 | CLA | C4D-ND | -2.91 | 1.33 | 1.37 |
| 29 | F | 316 | CLA | C4D-ND | -2.91 | 1.33 | 1.37 |
| 29 | b | 706 | CLA | CHC-C1C | 2.91 | 1.42 | 1.35 |
| 29 | H | 307 | CLA | C4D-ND | -2.91 | 1.33 | 1.37 |
| 39 | C | 312 | KC1 | C4B-NB | -2.90 | 1.34 | 1.37 |
| 29 | F | 311 | CLA | C4D-ND | -2.90 | 1.33 | 1.37 |
| 29 | H | 315 | CLA | C4D-ND | -2.90 | 1.33 | 1.37 |
| 29 | N | 316 | CLA | C4D-ND | -2.90 | 1.33 | 1.37 |
| 29 | Q | 315 | CLA | C4D-ND | -2.90 | 1.33 | 1.37 |
| 29 | a | 821 | CLA | C4D-ND | -2.89 | 1.33 | 1.37 |
| 29 | O | 316 | CLA | C4D-ND | -2.89 | 1.33 | 1.37 |
| 29 | C | 314 | CLA | C4D-ND | -2.89 | 1.33 | 1.37 |
| 39 | T | 310 | KC1 | CBA-CGA | -2.89 | 1.41 | 1.48 |
| 29 | a | 815 | CLA | C4D-ND | -2.88 | 1.33 | 1.37 |
| 29 | C | 313 | CLA | C4D-ND | -2.88 | 1.33 | 1.37 |
| 39 | F | 309 | KC1 | CBA-CGA | -2.88 | 1.41 | 1.48 |
| 39 | T | 312 | KC1 | C4B-NB | -2.88 | 1.34 | 1.37 |
| 29 | F | 307 | CLA | C4D-ND | -2.88 | 1.33 | 1.37 |
| 29 | P | 217 | CLA | C4D-ND | -2.88 | 1.33 | 1.37 |
| 29 | l | 508 | CLA | C4D-ND | -2.88 | 1.33 | 1.37 |
| 29 | a | 825 | CLA | CHC-C1C | 2.88 | 1.42 | 1.35 |
| 39 | C | 315 | KC1 | C4B-NB | -2.88 | 1.34 | 1.37 |
| 29 | f | 805 | CLA | C4D-ND | -2.88 | 1.33 | 1.37 |
| 39 | O | 312 | KC1 | C4B-NB | -2.87 | 1.34 | 1.37 |
| 29 | N | 308 | CLA | C4D-ND | -2.87 | 1.33 | 1.37 |
| 39 | C | 310 | KC1 | C4B-NB | -2.87 | 1.34 | 1.37 |
| 34 | E | 316 | LMG | C4-C5 | 2.87 | 1.59 | 1.53 |
| 29 | D | 308 | CLA | C4D-ND | -2.87 | 1.33 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 29 | H | 312 | CLA | C4D-ND | -2.87 | 1.33 | 1.37 |
| 29 | C | 316 | CLA | C4D-ND | -2.86 | 1.33 | 1.37 |
| 39 | K | 215 | KC1 | CBA-CGA | -2.86 | 1.41 | 1.48 |
| 39 | P | 213 | KC1 | C4B-NB | -2.86 | 1.34 | 1.37 |
| 38 | T | 306 | UIX | O-C1 | -2.86 | 1.42 | 1.46 |
| 29 | A | 206 | CLA | C4D-ND | -2.86 | 1.33 | 1.37 |
| 29 | P | 214 | CLA | C4D-ND | -2.86 | 1.33 | 1.37 |
| 39 | E | 312 | KC1 | C4B-NB | -2.86 | 1.34 | 1.37 |
| 39 | C | 312 | KC1 | CBA-CGA | -2.86 | 1.41 | 1.48 |
| 38 | P | 207 | UIX | O-C1 | -2.86 | 1.42 | 1.46 |
| 39 | M | 312 | KC1 | C4B-NB | -2.85 | 1.34 | 1.37 |
| 29 | L | 307 | CLA | C4D-ND | -2.85 | 1.33 | 1.37 |
| 39 | E | 307 | KC1 | CBA-CGA | -2.85 | 1.41 | 1.48 |
| 29 | P | 209 | CLA | C4D-ND | -2.85 | 1.33 | 1.37 |
| 39 | T | 315 | KC1 | CBA-CGA | -2.85 | 1.41 | 1.48 |
| 39 | I | 215 | KC1 | CBA-CGA | -2.84 | 1.41 | 1.48 |
| 39 | G | 318 | KC1 | CBA-CGA | -2.84 | 1.41 | 1.48 |
| 39 | Q | 309 | KC1 | CBA-CGA | -2.84 | 1.41 | 1.48 |
| 39 | M | 305 | KC1 | C4B-NB | -2.84 | 1.34 | 1.37 |
| 29 | N | 309 | CLA | C4D-ND | -2.84 | 1.33 | 1.37 |
| 37 | P | 208 | PID | C13-C12 | 2.84 | 1.44 | 1.36 |
| 39 | L | 306 | KC1 | CBA-CGA | -2.83 | 1.42 | 1.48 |
| 39 | N | 315 | KC1 | CBA-CGA | -2.83 | 1.42 | 1.48 |
| 39 | E | 312 | KC1 | CBA-CGA | -2.83 | 1.42 | 1.48 |
| 29 | j | 104 | CLA | C4D-ND | -2.83 | 1.33 | 1.37 |
| 39 | B | 313 | KC1 | C4B-NB | -2.83 | 1.34 | 1.37 |
| 39 | E | 307 | KC1 | C4B-NB | -2.83 | 1.34 | 1.37 |
| 29 | G | 316 | CLA | CMB-C2B | -2.83 | 1.45 | 1.51 |
| 39 | Q | 314 | KC1 | CBA-CGA | -2.83 | 1.42 | 1.48 |
| 39 | A | 213 | KC1 | CBA-CGA | -2.83 | 1.42 | 1.48 |
| 39 | Q | 311 | KC1 | CBA-CGA | -2.82 | 1.42 | 1.48 |
| 39 | P | 211 | KC1 | CBA-CGA | -2.82 | 1.42 | 1.48 |
| 39 | O | 310 | KC1 | CBA-CGA | -2.82 | 1.42 | 1.48 |
| 39 | T | 310 | KC1 | C4B-NB | -2.82 | 1.34 | 1.37 |
| 39 | Q | 309 | KC1 | C4B-NB | -2.82 | 1.34 | 1.37 |
| 29 | T | 316 | CLA | C4D-ND | -2.82 | 1.33 | 1.37 |
| 39 | D | 315 | KC1 | CBA-CGA | -2.81 | 1.42 | 1.48 |
| 39 | A | 213 | KC1 | C4B-NB | -2.81 | 1.34 | 1.37 |
| 39 | H | 311 | KC1 | C4B-NB | -2.81 | 1.34 | 1.37 |
| 29 | b | 708 | CLA | CMB-C2B | -2.81 | 1.45 | 1.51 |
| 39 | P | 216 | KC1 | CBA-CGA | -2.81 | 1.42 | 1.48 |
| 39 | F | 309 | KC1 | C4B-NB | -2.80 | 1.34 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 39 | N | 310 | KC1 | CBA-CGA | -2.80 | 1.42 | 1.48 |
| 39 | H | 309 | KC1 | C4B-NB | -2.80 | 1.34 | 1.37 |
| 39 | F | 314 | KC1 | C4B-NB | -2.80 | 1.34 | 1.37 |
| 39 | F | 314 | KC1 | CBA-CGA | -2.80 | 1.42 | 1.48 |
| 39 | J | 312 | KC1 | CBA-CGA | -2.79 | 1.42 | 1.48 |
| 39 | A | 205 | KC1 | CBA-CGA | -2.79 | 1.42 | 1.48 |
| 39 | I | 215 | KC1 | C4B-NB | -2.79 | 1.34 | 1.37 |
| 39 | Q | 314 | KC1 | C4B-NB | -2.79 | 1.34 | 1.37 |
| 39 | N | 312 | KC1 | C4B-NB | -2.79 | 1.34 | 1.37 |
| 39 | B | 313 | KC1 | CBA-CGA | -2.79 | 1.42 | 1.48 |
| 39 | O | 315 | KC1 | CBA-CGA | -2.79 | 1.42 | 1.48 |
| 39 | N | 312 | KC1 | CBA-CGA | -2.79 | 1.42 | 1.48 |
| 39 | J | 312 | KC1 | C4B-NB | -2.79 | 1.34 | 1.37 |
| 29 | F | 315 | CLA | C4D-ND | -2.78 | 1.33 | 1.37 |
| 39 | D | 310 | KC1 | C4B-NB | -2.78 | 1.34 | 1.37 |
| 29 | P | 215 | CLA | C4D-ND | -2.77 | 1.33 | 1.37 |
| 39 | D | 315 | KC1 | C4B-NB | -2.76 | 1.34 | 1.37 |
| 39 | P | 216 | KC1 | C4B-NB | -2.76 | 1.34 | 1.37 |
| 39 | D | 310 | KC1 | CBA-CGA | -2.76 | 1.42 | 1.48 |
| 39 | P | 213 | KC1 | CBA-CGA | -2.76 | 1.42 | 1.48 |
| 39 | M | 312 | KC1 | CBA-CGA | -2.76 | 1.42 | 1.48 |
| 39 | C | 310 | KC1 | CBA-CGA | -2.76 | 1.42 | 1.48 |
| 36 | D | 304 | DD6 | C19-C20 | 2.76 | 1.56 | 1.52 |
| 37 | H | 305 | PID | C20-C21 | 2.76 | 1.39 | 1.35 |
| 39 | L | 314 | KC1 | CBA-CGA | -2.76 | 1.42 | 1.48 |
| 39 | N | 315 | KC1 | C4B-NB | -2.75 | 1.34 | 1.37 |
| 38 | C | 306 | UIX | O-C1 | -2.75 | 1.42 | 1.46 |
| 37 | P | 206 | PID | C13-C12 | 2.75 | 1.44 | 1.36 |
| 29 | K | 212 | CLA | CMB-C2B | -2.75 | 1.45 | 1.51 |
| 39 | M | 305 | KC1 | CBA-CGA | -2.75 | 1.42 | 1.48 |
| 39 | H | 314 | KC1 | CBA-CGA | -2.75 | 1.42 | 1.48 |
| 39 | A | 205 | KC1 | C4B-NB | -2.75 | 1.34 | 1.37 |
| 39 | O | 312 | KC1 | CBA-CGA | -2.74 | 1.42 | 1.48 |
| 37 | G | 310 | PID | C8-C9 | -2.74 | 1.39 | 1.46 |
| 39 | H | 311 | KC1 | CBA-CGA | -2.74 | 1.42 | 1.48 |
| 39 | C | 315 | KC1 | CBA-CGA | -2.74 | 1.42 | 1.48 |
| 37 | N | 302 | PID | C8-C9 | -2.74 | 1.39 | 1.46 |
| 36 | K | 221 | DD6 | C19-C20 | 2.74 | 1.56 | 1.52 |
| 39 | G | 315 | KC1 | C1B-NB | -2.73 | 1.34 | 1.37 |
| 37 | Q | 303 | PID | C8-C9 | -2.73 | 1.39 | 1.46 |
| 37 | O | 305 | PID | C13-C12 | 2.73 | 1.44 | 1.36 |
| 37 | H | 304 | PID | C13-C12 | 2.72 | 1.44 | 1.36 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 39 | O | 315 | KC1 | C4B-NB | -2.72 | 1.34 | 1.37 |
| 39 | T | 315 | KC1 | C4B-NB | -2.71 | 1.34 | 1.37 |
| 39 | L | 306 | KC1 | C4B-NB | -2.71 | 1.34 | 1.37 |
| 37 | H | 306 | PID | C13-C12 | 2.71 | 1.44 | 1.36 |
| 37 | P | 205 | PID | C13-C12 | 2.71 | 1.44 | 1.36 |
| 29 | l | 503 | CLA | CMB-C2B | -2.70 | 1.46 | 1.51 |
| 37 | P | 203 | PID | C8-C9 | -2.70 | 1.39 | 1.46 |
| 29 | a | 811 | CLA | CMB-C2B | -2.69 | 1.46 | 1.51 |
| 39 | N | 310 | KC1 | C4B-NB | -2.69 | 1.34 | 1.37 |
| 37 | G | 310 | PID | C20-C21 | 2.69 | 1.39 | 1.35 |
| 36 | I | 204 | DD6 | C21-C20 | -2.69 | 1.47 | 1.51 |
| 29 | b | 717 | CLA | CMB-C2B | -2.68 | 1.46 | 1.51 |
| 37 | T | 317 | PID | C8-C9 | -2.68 | 1.39 | 1.46 |
| 29 | A | 217 | CLA | CMB-C2B | -2.68 | 1.46 | 1.51 |
| 37 | F | 306 | PID | C8-C9 | -2.68 | 1.39 | 1.46 |
| 36 | G | 305 | DD6 | C36-C31 | -2.68 | 1.31 | 1.34 |
| 37 | Q | 301 | PID | C8-C9 | -2.68 | 1.39 | 1.46 |
| 37 | G | 309 | PID | C8-C9 | -2.67 | 1.39 | 1.46 |
| 37 | N | 304 | PID | C8-C9 | -2.67 | 1.39 | 1.46 |
| 29 | J | 309 | CLA | CMB-C2B | -2.67 | 1.46 | 1.51 |
| 37 | O | 301 | PID | C13-C12 | 2.67 | 1.43 | 1.36 |
| 37 | N | 307 | PID | C13-C12 | 2.67 | 1.43 | 1.36 |
| 39 | H | 314 | KC1 | C4B-NB | -2.67 | 1.34 | 1.37 |
| 29 | E | 305 | CLA | CMB-C2B | -2.67 | 1.46 | 1.51 |
| 37 | D | 306 | PID | C8-C9 | -2.67 | 1.39 | 1.46 |
| 37 | D | 303 | PID | C8-C9 | -2.66 | 1.39 | 1.46 |
| 37 | T | 307 | PID | C8-C9 | -2.66 | 1.39 | 1.46 |
| 29 | b | 706 | CLA | CMB-C2B | -2.66 | 1.46 | 1.51 |
| 29 | b | 705 | CLA | CMB-C2B | -2.66 | 1.46 | 1.51 |
| 37 | O | 304 | PID | C8-C9 | -2.65 | 1.39 | 1.46 |
| 37 | T | 301 | PID | C8-C9 | -2.65 | 1.39 | 1.46 |
| 29 | a | 810 | CLA | CMB-C2B | -2.65 | 1.46 | 1.51 |
| 37 | C | 302 | PID | C8-C9 | -2.65 | 1.39 | 1.46 |
| 29 | A | 210 | CLA | CMB-C2B | -2.65 | 1.46 | 1.51 |
| 37 | C | 307 | PID | C13-C12 | 2.65 | 1.43 | 1.36 |
| 37 | h | 204 | PID | C8-C9 | -2.65 | 1.39 | 1.46 |
| 37 | C | 304 | PID | C8-C9 | -2.65 | 1.39 | 1.46 |
| 37 | T | 305 | PID | C8-C9 | -2.64 | 1.39 | 1.46 |
| 29 | l | 502 | CLA | CMB-C2B | -2.64 | 1.46 | 1.51 |
| 29 | K | 217 | CLA | CMB-C2B | -2.64 | 1.46 | 1.51 |
| 29 | l | 501 | CLA | CMB-C2B | -2.64 | 1.46 | 1.51 |
| 39 | O | 310 | KC1 | C4B-NB | -2.63 | 1.34 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 37 | T | 302 | PID | C13-C12 | 2.63 | 1.43 | 1.36 |
| 29 | b | 712 | CLA | CMB-C2B | -2.63 | 1.46 | 1.51 |
| 36 | h | 202 | DD6 | O1-C20 | -2.63 | 1.42 | 1.46 |
| 29 | a | 829 | CLA | CMB-C2B | -2.63 | 1.46 | 1.51 |
| 37 | D | 305 | PID | C13-C12 | 2.63 | 1.43 | 1.36 |
| 39 | T | 312 | KC1 | CBA-CGA | -2.63 | 1.42 | 1.48 |
| 37 | G | 303 | PID | C8-C9 | -2.62 | 1.39 | 1.46 |
| 37 | D | 307 | PID | C13-C12 | 2.62 | 1.43 | 1.36 |
| 29 | J | 311 | CLA | CMB-C2B | -2.62 | 1.46 | 1.51 |
| 29 | a | 801 | CLA | CMB-C2B | -2.62 | 1.46 | 1.51 |
| 29 | M | 309 | CLA | CMB-C2B | -2.62 | 1.46 | 1.51 |
| 37 | T | 304 | PID | C13-C12 | 2.62 | 1.43 | 1.36 |
| 37 | Q | 306 | PID | C13-C12 | 2.61 | 1.43 | 1.36 |
| 29 | b | 725 | CLA | CMB-C2B | -2.61 | 1.46 | 1.51 |
| 37 | F | 302 | PID | C8-C9 | -2.61 | 1.39 | 1.46 |
| 36 | D | 301 | DD6 | O1-C20 | -2.60 | 1.42 | 1.46 |
| 37 | H | 301 | PID | C13-C12 | 2.60 | 1.43 | 1.36 |
| 29 | b | 726 | CLA | CMB-C2B | -2.60 | 1.46 | 1.51 |
| 37 | D | 302 | PID | C13-C12 | 2.60 | 1.43 | 1.36 |
| 37 | P | 202 | PID | C13-C12 | 2.60 | 1.43 | 1.36 |
| 37 | O | 307 | PID | C8-C9 | -2.60 | 1.39 | 1.46 |
| 29 | O | 313 | CLA | CMB-C2B | -2.60 | 1.46 | 1.51 |
| 29 | b | 702 | CLA | CMB-C2B | -2.60 | 1.46 | 1.51 |
| 37 | H | 304 | PID | C8-C9 | -2.60 | 1.39 | 1.46 |
| 37 | j | 101 | PID | C13-C12 | 2.60 | 1.43 | 1.36 |
| 37 | C | 301 | PID | C13-C12 | 2.60 | 1.43 | 1.36 |
| 37 | O | 304 | PID | C13-C12 | 2.60 | 1.43 | 1.36 |
| 36 | G | 307 | DD6 | O1-C20 | -2.59 | 1.42 | 1.46 |
| 39 | P | 211 | KC1 | C4B-NB | -2.59 | 1.34 | 1.37 |
| 39 | C | 310 | KC1 | C1B-NB | -2.59 | 1.34 | 1.37 |
| 29 | a | 803 | CLA | CMB-C2B | -2.59 | 1.46 | 1.51 |
| 29 | A | 216 | CLA | CMB-C2B | -2.59 | 1.46 | 1.51 |
| 37 | T | 304 | PID | C8-C9 | -2.59 | 1.39 | 1.46 |
| 37 | F | 302 | PID | C13-C12 | 2.59 | 1.43 | 1.36 |
| 37 | Q | 306 | PID | C8-C9 | -2.58 | 1.39 | 1.46 |
| 29 | b | 711 | CLA | CMB-C2B | -2.58 | 1.46 | 1.51 |
| 29 | I | 212 | CLA | CMB-C2B | -2.58 | 1.46 | 1.51 |
| 37 | C | 302 | PID | C13-C12 | 2.58 | 1.43 | 1.36 |
| 29 | I | 210 | CLA | CMB-C2B | -2.57 | 1.46 | 1.51 |
| 29 | E | 315 | CLA | CMB-C2B | -2.57 | 1.46 | 1.51 |
| 37 | H | 301 | PID | C8-C9 | -2.57 | 1.39 | 1.46 |
| 38 | Q | 305 | UIX | O-C1 | -2.57 | 1.42 | 1.46 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 37 | H | 302 | PID | C8-C9 | -2.57 | 1.39 | 1.46 |
| 29 | F | 313 | CLA | CMB-C2B | -2.57 | 1.46 | 1.51 |
| 37 | N | 304 | PID | C13-C12 | 2.57 | 1.43 | 1.36 |
| 29 | a | 802 | CLA | CMB-C2B | -2.57 | 1.46 | 1.51 |
| 29 | B | 306 | CLA | CMB-C2B | -2.57 | 1.46 | 1.51 |
| 37 | C | 305 | PID | C8-C9 | -2.57 | 1.39 | 1.46 |
| 29 | a | 820 | CLA | CMB-C2B | -2.57 | 1.46 | 1.51 |
| 29 | b | 720 | CLA | CMB-C2B | -2.57 | 1.46 | 1.51 |
| 38 | L | 302 | UIX | O-C1 | -2.57 | 1.42 | 1.46 |
| 29 | B | 315 | CLA | CMB-C2B | -2.56 | 1.46 | 1.51 |
| 29 | K | 218 | CLA | CMB-C2B | -2.56 | 1.46 | 1.51 |
| 36 | M | 303 | DD6 | C19-C20 | 2.56 | 1.55 | 1.52 |
| 29 | b | 724 | CLA | CMB-C2B | -2.56 | 1.46 | 1.51 |
| 37 | N | 301 | PID | C8-C9 | -2.56 | 1.39 | 1.46 |
| 37 | F | 304 | PID | C8-C9 | -2.56 | 1.39 | 1.46 |
| 37 | C | 301 | PID | C8-C9 | -2.56 | 1.39 | 1.46 |
| 29 | K | 208 | CLA | CMB-C2B | -2.56 | 1.46 | 1.51 |
| 29 | a | 808 | CLA | CMB-C2B | -2.56 | 1.46 | 1.51 |
| 38 | F | 305 | UIX | O-C1 | -2.56 | 1.42 | 1.46 |
| 37 | O | 302 | PID | C8-C9 | -2.55 | 1.39 | 1.46 |
| 29 | l | 509 | CLA | CMB-C2B | -2.55 | 1.46 | 1.51 |
| 29 | Q | 313 | CLA | CMB-C2B | -2.55 | 1.46 | 1.51 |
| 29 | b | 715 | CLA | CMB-C2B | -2.55 | 1.46 | 1.51 |
| 37 | T | 301 | PID | C13-C12 | 2.55 | 1.43 | 1.36 |
| 29 | D | 313 | CLA | CMB-C2B | -2.55 | 1.46 | 1.51 |
| 37 | D | 302 | PID | C8-C9 | -2.55 | 1.40 | 1.46 |
| 29 | a | 824 | CLA | CMB-C2B | -2.55 | 1.46 | 1.51 |
| 29 | b | 707 | CLA | CMB-C2B | -2.55 | 1.46 | 1.51 |
| 29 | B | 316 | CLA | CMB-C2B | -2.54 | 1.46 | 1.51 |
| 29 | D | 314 | CLA | CMB-C2B | -2.54 | 1.46 | 1.51 |
| 29 | I | 217 | CLA | CMB-C2B | -2.54 | 1.46 | 1.51 |
| 29 | b | 713 | CLA | CMB-C2B | -2.54 | 1.46 | 1.51 |
| 37 | N | 301 | PID | C13-C12 | 2.54 | 1.43 | 1.36 |
| 29 | K | 214 | CLA | CMB-C2B | -2.54 | 1.46 | 1.51 |
| 29 | E | 314 | CLA | CMB-C2B | -2.54 | 1.46 | 1.51 |
| 29 | I | 213 | CLA | CMB-C2B | -2.54 | 1.46 | 1.51 |
| 37 | C | 304 | PID | C13-C12 | 2.53 | 1.43 | 1.36 |
| 29 | l | 505 | CLA | CMB-C2B | -2.53 | 1.46 | 1.51 |
| 37 | F | 306 | PID | C13-C12 | 2.53 | 1.43 | 1.36 |
| 29 | a | 826 | CLA | CMB-C2B | -2.53 | 1.46 | 1.51 |
| 29 | a | 817 | CLA | CMB-C2B | -2.53 | 1.46 | 1.51 |
| 29 | b | 719 | CLA | CMB-C2B | -2.53 | 1.46 | 1.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 39 | Q | 314 | KC1 | C1B-NB | -2.53 | 1.34 | 1.37 |
| 29 | I | 209 | CLA | CMB-C2B | -2.53 | 1.46 | 1.51 |
| 29 | L | 312 | CLA | CMB-C2B | -2.53 | 1.46 | 1.51 |
| 29 | I | 214 | CLA | CMB-C2B | -2.53 | 1.46 | 1.51 |
| 29 | a | 809 | CLA | CMB-C2B | -2.53 | 1.46 | 1.51 |
| 39 | Q | 311 | KC1 | C1B-NB | -2.53 | 1.34 | 1.37 |
| 29 | M | 314 | CLA | CMB-C2B | -2.53 | 1.46 | 1.51 |
| 37 | Q | 304 | PID | C8-C9 | -2.53 | 1.40 | 1.46 |
| 29 | b | 721 | CLA | CMB-C2B | -2.53 | 1.46 | 1.51 |
| 37 | Q | 304 | PID | C13-C12 | 2.53 | 1.43 | 1.36 |
| 29 | a | 827 | CLA | CMB-C2B | -2.53 | 1.46 | 1.51 |
| 38 | O | 306 | UIX | O-C1 | -2.53 | 1.42 | 1.46 |
| 29 | b | 736 | CLA | CMB-C2B | -2.53 | 1.46 | 1.51 |
| 29 | L | 310 | CLA | CMB-C2B | -2.52 | 1.46 | 1.51 |
| 29 | a | 819 | CLA | CMB-C2B | -2.52 | 1.46 | 1.51 |
| 29 | b | 714 | CLA | CMB-C2B | -2.52 | 1.46 | 1.51 |
| 39 | O | 312 | KC1 | C1B-NB | -2.52 | 1.34 | 1.37 |
| 29 | a | 818 | CLA | CMB-C2B | -2.52 | 1.46 | 1.51 |
| 29 | T | 314 | CLA | CMB-C2B | -2.52 | 1.46 | 1.51 |
| 37 | O | 307 | PID | C13-C12 | 2.52 | 1.43 | 1.36 |
| 37 | E | 301 | PID | C13-C12 | 2.52 | 1.43 | 1.36 |
| 29 | l | 510 | CLA | CMB-C2B | -2.52 | 1.46 | 1.51 |
| 29 | M | 311 | CLA | CMB-C2B | -2.52 | 1.46 | 1.51 |
| 37 | N | 305 | PID | C8-C9 | -2.52 | 1.40 | 1.46 |
| 29 | F | 312 | CLA | CMB-C2B | -2.52 | 1.46 | 1.51 |
| 29 | i | 201 | CLA | CMB-C2B | -2.52 | 1.46 | 1.51 |
| 37 | D | 305 | PID | C8-C9 | -2.52 | 1.40 | 1.46 |
| 37 | T | 305 | PID | C13-C12 | 2.52 | 1.43 | 1.36 |
| 29 | A | 209 | CLA | CMB-C2B | -2.52 | 1.46 | 1.51 |
| 29 | G | 312 | CLA | CMB-C2B | -2.52 | 1.46 | 1.51 |
| 36 | M | 302 | DD6 | C19-C20 | 2.51 | 1.55 | 1.52 |
| 38 | B | 304 | UIX | O-C1 | -2.51 | 1.42 | 1.46 |
| 37 | O | 301 | PID | C8-C9 | -2.51 | 1.40 | 1.46 |
| 29 | A | 215 | CLA | CMB-C2B | -2.51 | 1.46 | 1.51 |
| 29 | b | 710 | CLA | CMB-C2B | -2.51 | 1.46 | 1.51 |
| 29 | L | 307 | CLA | CMB-C2B | -2.51 | 1.46 | 1.51 |
| 37 | Q | 301 | PID | C13-C12 | 2.51 | 1.43 | 1.36 |
| 38 | E | 304 | UIX | O-C1 | -2.51 | 1.42 | 1.46 |
| 37 | P | 206 | PID | C8-C9 | -2.51 | 1.40 | 1.46 |
| 29 | A | 218 | CLA | CMB-C2B | -2.51 | 1.46 | 1.51 |
| 29 | E | 311 | CLA | CMB-C2B | -2.51 | 1.46 | 1.51 |
| 37 | N | 305 | PID | C13-C12 | 2.51 | 1.43 | 1.36 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 29 | B | 310 | CLA | CMD-C2D | -2.51 | 1.45 | 1.50 |
| 29 | a | 804 | CLA | CMB-C2B | -2.50 | 1.46 | 1.51 |
| 29 | b | 716 | CLA | CMB-C2B | -2.50 | 1.46 | 1.51 |
| 29 | f | 805 | CLA | CMB-C2B | -2.50 | 1.46 | 1.51 |
| 29 | L | 311 | CLA | CMB-C2B | -2.50 | 1.46 | 1.51 |
| 29 | a | 813 | CLA | CMB-C2B | -2.50 | 1.46 | 1.51 |
| 29 | f | 803 | CLA | CMB-C2B | -2.50 | 1.46 | 1.51 |
| 29 | G | 301 | CLA | CMB-C2B | -2.50 | 1.46 | 1.51 |
| 29 | K | 207 | CLA | CMB-C2B | -2.50 | 1.46 | 1.51 |
| 29 | J | 307 | CLA | CMB-C2B | -2.50 | 1.46 | 1.51 |
| 29 | b | 703 | CLA | CMB-C2B | -2.50 | 1.46 | 1.51 |
| 29 | I | 208 | CLA | CMB-C2B | -2.50 | 1.46 | 1.51 |
| 29 | I | 207 | CLA | CMB-C2B | -2.50 | 1.46 | 1.51 |
| 29 | A | 211 | CLA | CMB-C2B | -2.50 | 1.46 | 1.51 |
| 29 | a | 814 | CLA | CMB-C2B | -2.49 | 1.46 | 1.51 |
| 39 | E | 312 | KC1 | C1B-NB | -2.49 | 1.34 | 1.37 |
| 29 | a | 812 | CLA | CMB-C2B | -2.49 | 1.46 | 1.51 |
| 37 | C | 305 | PID | C13-C12 | 2.49 | 1.43 | 1.36 |
| 29 | F | 308 | CLA | CMB-C2B | -2.49 | 1.46 | 1.51 |
| 39 | C | 315 | KC1 | C1B-NB | -2.49 | 1.34 | 1.37 |
| 29 | F | 311 | CLA | CMB-C2B | -2.49 | 1.46 | 1.51 |
| 29 | B | 309 | CLA | CMB-C2B | -2.49 | 1.46 | 1.51 |
| 29 | a | 816 | CLA | CMB-C2B | -2.49 | 1.46 | 1.51 |
| 37 | P | 202 | PID | C8-C9 | -2.49 | 1.40 | 1.46 |
| 29 | M | 307 | CLA | CMB-C2B | -2.49 | 1.46 | 1.51 |
| 39 | K | 215 | KC1 | C1B-NB | -2.49 | 1.34 | 1.37 |
| 39 | C | 312 | KC1 | C1B-NB | -2.49 | 1.34 | 1.37 |
| 29 | b | 731 | CLA | CMB-C2B | -2.49 | 1.46 | 1.51 |
| 29 | L | 313 | CLA | CMB-C2B | -2.49 | 1.46 | 1.51 |
| 29 | f | 802 | CLA | CMB-C2B | -2.49 | 1.46 | 1.51 |
| 29 | K | 213 | CLA | CMB-C2B | -2.49 | 1.46 | 1.51 |
| 37 | T | 307 | PID | C13-C12 | 2.49 | 1.43 | 1.36 |
| 29 | a | 806 | CLA | CMB-C2B | -2.49 | 1.46 | 1.51 |
| 29 | l | 508 | CLA | CMB-C2B | -2.48 | 1.46 | 1.51 |
| 29 | Q | 310 | CLA | CMB-C2B | -2.48 | 1.46 | 1.51 |
| 39 | F | 309 | KC1 | C1B-NB | -2.48 | 1.34 | 1.37 |
| 37 | G | 309 | PID | C13-C12 | 2.48 | 1.43 | 1.36 |
| 37 | Q | 303 | PID | C13-C12 | 2.48 | 1.43 | 1.36 |
| 37 | H | 305 | PID | C13-C12 | 2.48 | 1.43 | 1.36 |
| 29 | b | 709 | CLA | CMB-C2B | -2.48 | 1.46 | 1.51 |
| 29 | l | 504 | CLA | CMB-C2B | -2.48 | 1.46 | 1.51 |
| 29 | J | 305 | CLA | CMB-C2B | -2.48 | 1.46 | 1.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 37 | P | 205 | PID | C8-C9 | -2.48 | 1.40 | 1.46 |
| 29 | a | 805 | CLA | CMB-C2B | -2.48 | 1.46 | 1.51 |
| 29 | a | 822 | CLA | CMB-C2B | -2.48 | 1.46 | 1.51 |
| 29 | a | 828 | CLA | CMB-C2B | -2.48 | 1.46 | 1.51 |
| 39 | G | 315 | KC1 | C4A-C3A | -2.48 | 1.39 | 1.44 |
| 29 | A | 206 | CLA | CMB-C2B | -2.48 | 1.46 | 1.51 |
| 29 | L | 316 | CLA | CMB-C2B | -2.48 | 1.46 | 1.51 |
| 29 | H | 313 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 29 | i | 203 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 29 | G | 304 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 29 | K | 211 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 29 | L | 315 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 29 | Q | 312 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 29 | C | 313 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 29 | E | 306 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 29 | G | 317 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 29 | B | 307 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 29 | L | 309 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 37 | E | 301 | PID | C8-C9 | -2.47 | 1.40 | 1.46 |
| 29 | a | 830 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 29 | L | 317 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 29 | I | 211 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 29 | C | 314 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 39 | T | 312 | KC1 | CHD-C4C | 2.47 | 1.41 | 1.35 |
| 37 | H | 302 | PID | C13-C12 | 2.47 | 1.43 | 1.36 |
| 36 | h | 202 | DD6 | C10-C11 | -2.47 | 1.32 | 1.35 |
| 29 | A | 212 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 29 | Q | 308 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 29 | I | 216 | CLA | CMB-C2B | -2.47 | 1.46 | 1.51 |
| 29 | M | 308 | CLA | CMB-C2B | -2.46 | 1.46 | 1.51 |
| 29 | L | 308 | CLA | CMB-C2B | -2.46 | 1.46 | 1.51 |
| 29 | A | 207 | CLA | CMB-C2B | -2.46 | 1.46 | 1.51 |
| 29 | F | 310 | CLA | CMB-C2B | -2.46 | 1.46 | 1.51 |
| 29 | G | 319 | CLA | CMB-C2B | -2.46 | 1.46 | 1.51 |
| 29 | h | 201 | CLA | CMB-C2B | -2.46 | 1.46 | 1.51 |
| 29 | A | 214 | CLA | CMD-C2D | -2.46 | 1.45 | 1.50 |
| 29 | b | 718 | CLA | CMD-C2D | -2.46 | 1.45 | 1.50 |
| 29 | a | 807 | CLA | CMB-C2B | -2.46 | 1.46 | 1.51 |
| 29 | J | 308 | CLA | CMB-C2B | -2.46 | 1.46 | 1.51 |
| 29 | a | 837 | CLA | CMB-C2B | -2.46 | 1.46 | 1.51 |
| 29 | F | 316 | CLA | CMB-C2B | -2.46 | 1.46 | 1.51 |
| 29 | T | 308 | CLA | CMB-C2B | -2.46 | 1.46 | 1.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 29 | b | 704 | CLA | CMB-C2B | -2.46 | 1.46 | 1.51 |
| 29 | B | 308 | CLA | CMB-C2B | -2.46 | 1.46 | 1.51 |
| 29 | A | 214 | CLA | CMB-C2B | -2.45 | 1.46 | 1.51 |
| 29 | K | 216 | CLA | CMB-C2B | -2.45 | 1.46 | 1.51 |
| 29 | J | 310 | CLA | CMB-C2B | -2.45 | 1.46 | 1.51 |
| 29 | C | 316 | CLA | CMB-C2B | -2.45 | 1.46 | 1.51 |
| 29 | b | 722 | CLA | CMB-C2B | -2.45 | 1.46 | 1.51 |
| 29 | G | 311 | CLA | CMB-C2B | -2.45 | 1.46 | 1.51 |
| 29 | G | 313 | CLA | CMB-C2B | -2.45 | 1.46 | 1.51 |
| 29 | B | 311 | CLA | CMB-C2B | -2.45 | 1.46 | 1.51 |
| 29 | b | 723 | CLA | CMB-C2B | -2.45 | 1.46 | 1.51 |
| 29 | a | 815 | CLA | CMB-C2B | -2.45 | 1.46 | 1.51 |
| 29 | j | 104 | CLA | CMB-C2B | -2.45 | 1.46 | 1.51 |
| 29 | Q | 307 | CLA | CMB-C2B | -2.44 | 1.46 | 1.51 |
| 29 | H | 308 | CLA | CMB-C2B | -2.44 | 1.46 | 1.51 |
| 39 | M | 312 | KC1 | C1B-NB | -2.44 | 1.34 | 1.37 |
| 39 | T | 315 | KC1 | C1B-NB | -2.44 | 1.34 | 1.37 |
| 37 | T | 302 | PID | C8-C9 | -2.44 | 1.40 | 1.46 |
| 37 | D | 306 | PID | C13-C12 | 2.44 | 1.43 | 1.36 |
| 29 | O | 309 | CLA | CMB-C2B | -2.44 | 1.46 | 1.51 |
| 37 | D | 307 | PID | C8-C9 | -2.44 | 1.40 | 1.46 |
| 37 | j | 101 | PID | C8-C9 | -2.44 | 1.40 | 1.46 |
| 29 | G | 314 | CLA | CMB-C2B | -2.44 | 1.46 | 1.51 |
| 29 | I | 201 | CLA | CMB-C2B | -2.44 | 1.46 | 1.51 |
| 29 | K | 209 | CLA | CMB-C2B | -2.44 | 1.46 | 1.51 |
| 29 | T | 309 | CLA | CMB-C2B | -2.43 | 1.46 | 1.51 |
| 29 | P | 210 | CLA | CMB-C2B | -2.43 | 1.46 | 1.51 |
| 29 | b | 701 | CLA | CMB-C2B | -2.43 | 1.46 | 1.51 |
| 29 | F | 307 | CLA | CMB-C2B | -2.43 | 1.46 | 1.51 |
| 37 | C | 307 | PID | C8-C9 | -2.43 | 1.40 | 1.46 |
| 29 | P | 214 | CLA | CMB-C2B | -2.43 | 1.46 | 1.51 |
| 29 | E | 308 | CLA | CMB-C2B | -2.43 | 1.46 | 1.51 |
| 39 | P | 211 | KC1 | C1B-NB | -2.43 | 1.34 | 1.37 |
| 29 | A | 208 | CLA | CMB-C2B | -2.43 | 1.46 | 1.51 |
| 29 | O | 314 | CLA | CMB-C2B | -2.43 | 1.46 | 1.51 |
| 38 | J | 304 | UIX | O-C1 | -2.43 | 1.42 | 1.46 |
| 39 | Q | 311 | KC1 | CHD-C4C | 2.43 | 1.41 | 1.35 |
| 29 | i | 202 | CLA | CMB-C2B | -2.43 | 1.46 | 1.51 |
| 39 | O | 312 | KC1 | C4A-C3A | -2.43 | 1.39 | 1.44 |
| 39 | I | 215 | KC1 | C1B-NB | -2.43 | 1.34 | 1.37 |
| 29 | J | 306 | CLA | CMB-C2B | -2.43 | 1.46 | 1.51 |
| 29 | b | 719 | CLA | CMD-C2D | -2.42 | 1.45 | 1.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 37 | T | 317 | PID | C13-C12 | 2.42 | 1.43 | 1.36 |
| 39 | L | 314 | KC1 | C1B-NB | -2.42 | 1.34 | 1.37 |
| 29 | a | 821 | CLA | CMB-C2B | -2.42 | 1.46 | 1.51 |
| 39 | D | 315 | KC1 | C1B-NB | -2.42 | 1.34 | 1.37 |
| 39 | Q | 309 | KC1 | C1B-NB | -2.42 | 1.34 | 1.37 |
| 37 | O | 302 | PID | C13-C12 | 2.42 | 1.43 | 1.36 |
| 39 | O | 310 | KC1 | C1B-NB | -2.42 | 1.34 | 1.37 |
| 29 | a | 831 | CLA | CMB-C2B | -2.42 | 1.46 | 1.51 |
| 29 | O | 308 | CLA | CMB-C2B | -2.42 | 1.46 | 1.51 |
| 29 | B | 312 | CLA | CMB-C2B | -2.42 | 1.46 | 1.51 |
| 29 | D | 312 | CLA | CMB-C2B | -2.42 | 1.46 | 1.51 |
| 29 | C | 308 | CLA | CMB-C2B | -2.42 | 1.46 | 1.51 |
| 39 | T | 310 | KC1 | CHD-C4C | 2.42 | 1.41 | 1.35 |
| 39 | J | 312 | KC1 | C1B-NB | -2.42 | 1.34 | 1.37 |
| 39 | A | 205 | KC1 | C1B-NB | -2.42 | 1.34 | 1.37 |
| 29 | H | 307 | CLA | CMB-C2B | -2.42 | 1.46 | 1.51 |
| 29 | M | 306 | CLA | CMB-C2B | -2.42 | 1.46 | 1.51 |
| 29 | M | 313 | CLA | CMB-C2B | -2.41 | 1.46 | 1.51 |
| 29 | J | 313 | CLA | CMB-C2B | -2.41 | 1.46 | 1.51 |
| 29 | O | 311 | CLA | CMB-C2B | -2.41 | 1.46 | 1.51 |
| 29 | F | 315 | CLA | CMB-C2B | -2.41 | 1.46 | 1.51 |
| 29 | G | 302 | CLA | CMB-C2B | -2.41 | 1.46 | 1.51 |
| 29 | C | 311 | CLA | CMB-C2B | -2.41 | 1.46 | 1.51 |
| 29 | P | 215 | CLA | CMB-C2B | -2.41 | 1.46 | 1.51 |
| 39 | E | 312 | KC1 | CHD-C4C | 2.41 | 1.41 | 1.35 |
| 39 | C | 312 | KC1 | CHD-C4C | 2.41 | 1.41 | 1.35 |
| 29 | M | 310 | CLA | CMB-C2B | -2.41 | 1.46 | 1.51 |
| 39 | N | 310 | KC1 | C1B-NB | -2.41 | 1.34 | 1.37 |
| 37 | h | 204 | PID | C13-C12 | 2.41 | 1.43 | 1.36 |
| 29 | B | 314 | CLA | CMB-C2B | -2.41 | 1.46 | 1.51 |
| 39 | E | 307 | KC1 | C1B-NB | -2.41 | 1.34 | 1.37 |
| 29 | N | 309 | CLA | CMB-C2B | -2.41 | 1.46 | 1.51 |
| 29 | D | 311 | CLA | CMB-C2B | -2.40 | 1.46 | 1.51 |
| 39 | D | 315 | KC1 | CHD-C4C | 2.40 | 1.41 | 1.35 |
| 29 | B | 310 | CLA | CMB-C2B | -2.40 | 1.46 | 1.51 |
| 29 | E | 309 | CLA | CMB-C2B | -2.40 | 1.46 | 1.51 |
| 39 | L | 314 | KC1 | CHD-C4C | 2.40 | 1.41 | 1.35 |
| 39 | H | 309 | KC1 | C1B-NB | -2.40 | 1.34 | 1.37 |
| 29 | P | 209 | CLA | CMB-C2B | -2.40 | 1.46 | 1.51 |
| 29 | a | 823 | CLA | CMB-C2B | -2.40 | 1.46 | 1.51 |
| 29 | D | 309 | CLA | CMB-C2B | -2.40 | 1.46 | 1.51 |
| 29 | C | 309 | CLA | CMB-C2B | -2.40 | 1.46 | 1.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 39 | M | 305 | KC1 | CHD-C4C | 2.40 | 1.41 | 1.35 |
| 39 | D | 310 | KC1 | CHD-C4C | 2.40 | 1.41 | 1.35 |
| 39 | C | 310 | KC1 | CHD-C4C | 2.40 | 1.41 | 1.35 |
| 29 | N | 314 | CLA | CMB-C2B | -2.40 | 1.46 | 1.51 |
| 39 | B | 313 | KC1 | C1B-NB | -2.39 | 1.34 | 1.37 |
| 29 | H | 310 | CLA | CMB-C2B | -2.39 | 1.46 | 1.51 |
| 29 | N | 308 | CLA | CMB-C2B | -2.39 | 1.46 | 1.51 |
| 29 | Q | 315 | CLA | CMB-C2B | -2.39 | 1.46 | 1.51 |
| 36 | B | 319 | DD6 | O1-C20 | -2.39 | 1.42 | 1.46 |
| 39 | P | 213 | KC1 | CHD-C4C | 2.39 | 1.41 | 1.35 |
| 39 | H | 314 | KC1 | C1B-NB | -2.39 | 1.34 | 1.37 |
| 29 | N | 316 | CLA | CMB-C2B | -2.39 | 1.46 | 1.51 |
| 39 | A | 213 | KC1 | C1B-NB | -2.39 | 1.34 | 1.37 |
| 39 | N | 315 | KC1 | CHD-C4C | 2.39 | 1.41 | 1.35 |
| 29 | M | 315 | CLA | CMB-C2B | -2.39 | 1.46 | 1.51 |
| 39 | H | 311 | KC1 | CHD-C4C | 2.39 | 1.41 | 1.35 |
| 36 | O | 303 | DD6 | O1-C20 | -2.39 | 1.42 | 1.46 |
| 39 | M | 305 | KC1 | C1B-NB | -2.39 | 1.34 | 1.37 |
| 29 | T | 311 | CLA | CMB-C2B | -2.39 | 1.46 | 1.51 |
| 29 | E | 313 | CLA | CMB-C2B | -2.39 | 1.46 | 1.51 |
| 39 | T | 310 | KC1 | C1B-NB | -2.38 | 1.34 | 1.37 |
| 29 | O | 316 | CLA | CMB-C2B | -2.38 | 1.46 | 1.51 |
| 29 | K | 210 | CLA | CMB-C2B | -2.38 | 1.46 | 1.51 |
| 29 | D | 316 | CLA | CMB-C2B | -2.38 | 1.46 | 1.51 |
| 29 | K | 214 | CLA | C3B-C2B | -2.38 | 1.37 | 1.40 |
| 29 | N | 313 | CLA | CMB-C2B | -2.38 | 1.46 | 1.51 |
| 39 | N | 312 | KC1 | C1B-NB | -2.38 | 1.34 | 1.37 |
| 39 | J | 312 | KC1 | CHD-C4C | 2.38 | 1.41 | 1.35 |
| 29 | N | 311 | CLA | CMB-C2B | -2.38 | 1.46 | 1.51 |
| 36 | I | 204 | DD6 | C19-C20 | 2.38 | 1.55 | 1.52 |
| 39 | P | 213 | KC1 | C1B-NB | -2.38 | 1.34 | 1.37 |
| 29 | E | 310 | CLA | CMB-C2B | -2.37 | 1.46 | 1.51 |
| 39 | P | 216 | KC1 | C1B-NB | -2.37 | 1.34 | 1.37 |
| 37 | N | 302 | PID | C13-C12 | 2.37 | 1.43 | 1.36 |
| 39 | N | 312 | KC1 | CHD-C4C | 2.37 | 1.41 | 1.35 |
| 39 | G | 318 | KC1 | C1B-NB | -2.37 | 1.34 | 1.37 |
| 38 | N | 306 | UIX | O-C1 | -2.37 | 1.42 | 1.46 |
| 36 | M | 303 | DD6 | O1-C20 | -2.37 | 1.42 | 1.46 |
| 29 | P | 212 | CLA | CMB-C2B | -2.37 | 1.46 | 1.51 |
| 39 | O | 315 | KC1 | C1B-NB | -2.37 | 1.34 | 1.37 |
| 29 | D | 313 | CLA | CMD-C2D | -2.37 | 1.45 | 1.50 |
| 29 | H | 315 | CLA | CMB-C2B | -2.37 | 1.46 | 1.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 29 | T | 313 | CLA | CMB-C2B | -2.37 | 1.46 | 1.51 |
| 37 | G | 310 | PID | C13-C12 | 2.36 | 1.43 | 1.36 |
| 39 | C | 315 | KC1 | CHD-C4C | 2.36 | 1.41 | 1.35 |
| 37 | G | 303 | PID | C13-C12 | 2.36 | 1.43 | 1.36 |
| 37 | F | 304 | PID | C13-C12 | 2.36 | 1.43 | 1.36 |
| 36 | C | 303 | DD6 | O1-C20 | -2.36 | 1.42 | 1.46 |
| 29 | b | 704 | CLA | CMD-C2D | -2.36 | 1.45 | 1.50 |
| 29 | T | 316 | CLA | CMB-C2B | -2.36 | 1.46 | 1.51 |
| 29 | b | 736 | CLA | CMC-C2C | -2.36 | 1.45 | 1.50 |
| 39 | P | 211 | KC1 | CHD-C4C | 2.36 | 1.41 | 1.35 |
| 37 | N | 307 | PID | C8-C9 | -2.35 | 1.40 | 1.46 |
| 29 | D | 308 | CLA | CMB-C2B | -2.35 | 1.46 | 1.51 |
| 37 | P | 203 | PID | C13-C12 | 2.35 | 1.43 | 1.36 |
| 39 | D | 310 | KC1 | C1B-NB | -2.35 | 1.34 | 1.37 |
| 39 | H | 311 | KC1 | C1B-NB | -2.35 | 1.34 | 1.37 |
| 34 | h | 205 | LMG | O7-C8 | -2.35 | 1.40 | 1.46 |
| 29 | l | 505 | CLA | CMD-C2D | -2.35 | 1.45 | 1.50 |
| 37 | D | 303 | PID | C13-C12 | 2.34 | 1.43 | 1.36 |
| 29 | P | 217 | CLA | CMB-C2B | -2.34 | 1.46 | 1.51 |
| 39 | H | 314 | KC1 | CHD-C4C | 2.34 | 1.41 | 1.35 |
| 39 | A | 205 | KC1 | C4A-C3A | -2.34 | 1.40 | 1.44 |
| 39 | N | 310 | KC1 | CHD-C4C | 2.34 | 1.41 | 1.35 |
| 39 | T | 312 | KC1 | C1B-NB | -2.34 | 1.34 | 1.37 |
| 29 | F | 310 | CLA | CMD-C2D | -2.34 | 1.45 | 1.50 |
| 39 | Q | 309 | KC1 | CHD-C4C | 2.34 | 1.41 | 1.35 |
| 39 | L | 306 | KC1 | C1B-NB | -2.33 | 1.34 | 1.37 |
| 29 | f | 805 | CLA | CMD-C2D | -2.33 | 1.45 | 1.50 |
| 39 | T | 315 | KC1 | CHD-C4C | 2.33 | 1.40 | 1.35 |
| 39 | A | 213 | KC1 | CHD-C4C | 2.33 | 1.40 | 1.35 |
| 39 | O | 312 | KC1 | CHD-C4C | 2.33 | 1.40 | 1.35 |
| 29 | H | 312 | CLA | CMB-C2B | -2.33 | 1.46 | 1.51 |
| 39 | P | 216 | KC1 | CHD-C4C | 2.33 | 1.40 | 1.35 |
| 39 | A | 205 | KC1 | CHD-C4C | 2.32 | 1.40 | 1.35 |
| 39 | G | 318 | KC1 | CHD-C4C | 2.32 | 1.40 | 1.35 |
| 37 | P | 208 | PID | C8-C9 | -2.32 | 1.40 | 1.46 |
| 39 | H | 309 | KC1 | CHD-C4C | 2.32 | 1.40 | 1.35 |
| 39 | M | 312 | KC1 | CHD-C4C | 2.31 | 1.40 | 1.35 |
| 36 | E | 303 | DD6 | O1-C20 | -2.31 | 1.42 | 1.46 |
| 39 | E | 307 | KC1 | CHD-C4C | 2.31 | 1.40 | 1.35 |
| 39 | F | 314 | KC1 | CHD-C4C | 2.31 | 1.40 | 1.35 |
| 39 | Q | 314 | KC1 | CHD-C4C | 2.31 | 1.40 | 1.35 |
| 36 | K | 204 | DD6 | O1-C20 | -2.30 | 1.42 | 1.46 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 36 | G | 306 | DD6 | O1-C20 | -2.30 | 1.42 | 1.46 |
| 39 | F | 314 | KC1 | C1B-NB | -2.29 | 1.35 | 1.37 |
| 34 | K | 219 | LMG | O7-C8 | -2.29 | 1.40 | 1.46 |
| 38 | A | 203 | UIX | O-C1 | -2.29 | 1.42 | 1.46 |
| 39 | B | 313 | KC1 | CHD-C4C | 2.29 | 1.40 | 1.35 |
| 39 | O | 315 | KC1 | CHD-C4C | 2.29 | 1.40 | 1.35 |
| 36 | A | 204 | DD6 | O1-C20 | -2.28 | 1.42 | 1.46 |
| 36 | B | 303 | DD6 | O1-C20 | -2.28 | 1.42 | 1.46 |
| 39 | F | 309 | KC1 | CHD-C4C | 2.28 | 1.40 | 1.35 |
| 39 | B | 313 | KC1 | C4A-C3A | -2.28 | 1.40 | 1.44 |
| 36 | J | 303 | DD6 | O1-C20 | -2.27 | 1.43 | 1.46 |
| 39 | L | 306 | KC1 | CHD-C4C | 2.27 | 1.40 | 1.35 |
| 39 | N | 315 | KC1 | C1B-NB | -2.27 | 1.35 | 1.37 |
| 29 | a | 837 | CLA | CMD-C2D | -2.27 | 1.46 | 1.50 |
| 39 | F | 309 | KC1 | C4A-C3A | -2.27 | 1.40 | 1.44 |
| 29 | A | 217 | CLA | CMD-C2D | -2.26 | 1.46 | 1.50 |
| 36 | B | 301 | DD6 | O1-C20 | -2.26 | 1.43 | 1.46 |
| 39 | O | 310 | KC1 | CHD-C4C | 2.26 | 1.40 | 1.35 |
| 39 | O | 310 | KC1 | C4A-C3A | -2.26 | 1.40 | 1.44 |
| 38 | E | 304 | UIX | C15-C20 | -2.26 | 1.50 | 1.54 |
| 36 | K | 202 | DD6 | C21-C20 | -2.26 | 1.48 | 1.51 |
| 39 | E | 307 | KC1 | C4A-C3A | -2.26 | 1.40 | 1.44 |
| 29 | a | 812 | CLA | CMD-C2D | -2.26 | 1.46 | 1.50 |
| 39 | K | 215 | KC1 | CHD-C4C | 2.25 | 1.40 | 1.35 |
| 36 | H | 303 | DD6 | O1-C20 | -2.25 | 1.43 | 1.46 |
| 29 | A | 215 | CLA | CMD-C2D | -2.25 | 1.46 | 1.50 |
| 39 | I | 215 | KC1 | CHD-C4C | 2.25 | 1.40 | 1.35 |
| 29 | a | 820 | CLA | CMD-C2D | -2.25 | 1.46 | 1.50 |
| 36 | G | 307 | DD6 | C-C1 | -2.25 | 1.46 | 1.50 |
| 39 | Q | 311 | KC1 | C4A-C3A | -2.24 | 1.40 | 1.44 |
| 39 | E | 312 | KC1 | C4A-C3A | -2.24 | 1.40 | 1.44 |
| 36 | N | 303 | DD6 | O1-C20 | -2.24 | 1.43 | 1.46 |
| 36 | m | 101 | DD6 | O1-C20 | -2.24 | 1.43 | 1.46 |
| 36 | E | 302 | DD6 | O1-C20 | -2.24 | 1.43 | 1.46 |
| 38 | A | 203 | UIX | C15-C20 | -2.24 | 1.50 | 1.54 |
| 32 | m | 103 | BCR | C30-C25 | -2.23 | 1.50 | 1.53 |
| 29 | a | 801 | CLA | CMD-C2D | -2.23 | 1.46 | 1.50 |
| 34 | b | 730 | LMG | O8-C9 | -2.23 | 1.40 | 1.45 |
| 39 | C | 310 | KC1 | C4A-C3A | -2.23 | 1.40 | 1.44 |
| 39 | N | 310 | KC1 | C4A-C3A | -2.23 | 1.40 | 1.44 |
| 29 | b | 725 | CLA | CMD-C2D | -2.22 | 1.46 | 1.50 |
| 29 | A | 218 | CLA | CMC-C2C | -2.22 | 1.46 | 1.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 39 | M | 312 | KC1 | C4A-C3A | -2.22 | 1.40 | 1.44 |
| 39 | I | 215 | KC1 | C4A-C3A | -2.22 | 1.40 | 1.44 |
| 29 | b | 711 | CLA | C3B-CAB | -2.22 | 1.43 | 1.47 |
| 36 | A | 202 | DD6 | O1-C20 | -2.21 | 1.43 | 1.46 |
| 29 | E | 306 | CLA | CMD-C2D | -2.21 | 1.46 | 1.50 |
| 29 | h | 201 | CLA | CMC-C2C | -2.21 | 1.46 | 1.50 |
| 29 | C | 313 | CLA | CMD-C2D | -2.21 | 1.46 | 1.50 |
| 36 | P | 204 | DD6 | O1-C20 | -2.21 | 1.43 | 1.46 |
| 39 | A | 213 | KC1 | C4A-C3A | -2.21 | 1.40 | 1.44 |
| 29 | a | 827 | CLA | C3B-C2B | -2.21 | 1.37 | 1.40 |
| 36 | B | 305 | DD6 | O1-C20 | -2.21 | 1.43 | 1.46 |
| 37 | O | 305 | PID | C8-C9 | -2.21 | 1.40 | 1.46 |
| 39 | T | 312 | KC1 | C4A-C3A | -2.21 | 1.40 | 1.44 |
| 39 | C | 312 | KC1 | C4A-C3A | -2.21 | 1.40 | 1.44 |
| 36 | K | 203 | DD6 | O1-C20 | -2.21 | 1.43 | 1.46 |
| 39 | Q | 314 | KC1 | C4A-C3A | -2.21 | 1.40 | 1.44 |
| 29 | K | 212 | CLA | CMD-C2D | -2.21 | 1.46 | 1.50 |
| 29 | I | 214 | CLA | CMD-C2D | -2.21 | 1.46 | 1.50 |
| 29 | a | 831 | CLA | CMD-C2D | -2.21 | 1.46 | 1.50 |
| 36 | M | 301 | DD6 | O1-C20 | -2.20 | 1.43 | 1.46 |
| 36 | L | 303 | DD6 | O1-C20 | -2.20 | 1.43 | 1.46 |
| 29 | L | 316 | CLA | CMD-C2D | -2.20 | 1.46 | 1.50 |
| 29 | a | 810 | CLA | CMD-C2D | -2.20 | 1.46 | 1.50 |
| 36 | L | 305 | DD6 | O1-C20 | -2.20 | 1.43 | 1.46 |
| 29 | a | 802 | CLA | CMD-C2D | -2.20 | 1.46 | 1.50 |
| 34 | b | 732 | LMG | O7-C8 | -2.20 | 1.41 | 1.46 |
| 29 | G | 313 | CLA | CMD-C2D | -2.20 | 1.46 | 1.50 |
| 39 | L | 314 | KC1 | C4A-C3A | -2.20 | 1.40 | 1.44 |
| 29 | K | 212 | CLA | C3B-C2B | -2.20 | 1.37 | 1.40 |
| 29 | f | 803 | CLA | CMD-C2D | -2.20 | 1.46 | 1.50 |
| 39 | K | 215 | KC1 | C4A-C3A | -2.20 | 1.40 | 1.44 |
| 36 | L | 304 | DD6 | O1-C20 | -2.19 | 1.43 | 1.46 |
| 29 | l | 504 | CLA | CMD-C2D | -2.19 | 1.46 | 1.50 |
| 37 | H | 305 | PID | C8-C9 | -2.19 | 1.40 | 1.46 |
| 29 | N | 313 | CLA | CMD-C2D | -2.19 | 1.46 | 1.50 |
| 29 | a | 806 | CLA | CMD-C2D | -2.19 | 1.46 | 1.50 |
| 36 | I | 202 | DD6 | O1-C20 | -2.19 | 1.43 | 1.46 |
| 29 | F | 310 | CLA | CMC-C2C | -2.19 | 1.46 | 1.50 |
| 36 | K | 205 | DD6 | O1-C20 | -2.19 | 1.43 | 1.46 |
| 29 | K | 218 | CLA | CMD-C2D | -2.19 | 1.46 | 1.50 |
| 36 | K | 206 | DD6 | O1-C20 | -2.19 | 1.43 | 1.46 |
| 29 | a | 824 | CLA | CMD-C2D | -2.18 | 1.46 | 1.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 39 | M | 305 | KC1 | C4A-C3A | -2.18 | 1.40 | 1.44 |
| 39 | J | 312 | KC1 | C4A-C3A | -2.18 | 1.40 | 1.44 |
| 29 | i | 203 | CLA | CMD-C2D | -2.18 | 1.46 | 1.50 |
| 29 | J | 306 | CLA | CMD-C2D | -2.18 | 1.46 | 1.50 |
| 29 | b | 705 | CLA | CMC-C2C | -2.18 | 1.46 | 1.50 |
| 29 | K | 213 | CLA | CMD-C2D | -2.18 | 1.46 | 1.50 |
| 39 | L | 306 | KC1 | C4A-C3A | -2.17 | 1.40 | 1.44 |
| 29 | a | 808 | CLA | CMD-C2D | -2.17 | 1.46 | 1.50 |
| 29 | L | 312 | CLA | CMD-C2D | -2.17 | 1.46 | 1.50 |
| 29 | G | 302 | CLA | CMD-C2D | -2.17 | 1.46 | 1.50 |
| 29 | a | 826 | CLA | CMD-C2D | -2.17 | 1.46 | 1.50 |
| 40 | B | 317 | SQD | O8-S | 2.17 | 1.55 | 1.47 |
| 39 | P | 211 | KC1 | C4A-C3A | -2.17 | 1.40 | 1.44 |
| 29 | b | 723 | CLA | CMD-C2D | -2.17 | 1.46 | 1.50 |
| 39 | F | 314 | KC1 | C4A-C3A | -2.17 | 1.40 | 1.44 |
| 36 | Q | 302 | DD6 | O1-C20 | -2.16 | 1.43 | 1.46 |
| 29 | b | 703 | CLA | CMD-C2D | -2.16 | 1.46 | 1.50 |
| 29 | a | 808 | CLA | C3B-CAB | -2.16 | 1.43 | 1.47 |
| 29 | a | 805 | CLA | CMD-C2D | -2.16 | 1.46 | 1.50 |
| 29 | b | 714 | CLA | CMD-C2D | -2.16 | 1.46 | 1.50 |
| 34 | b | 730 | LMG | O7-C8 | -2.15 | 1.41 | 1.46 |
| 29 | K | 216 | CLA | CMD-C2D | -2.15 | 1.46 | 1.50 |
| 36 | I | 206 | DD6 | O1-C20 | -2.15 | 1.43 | 1.46 |
| 29 | B | 314 | CLA | CMD-C2D | -2.15 | 1.46 | 1.50 |
| 39 | G | 315 | KC1 | CHD-C4C | 2.15 | 1.40 | 1.35 |
| 29 | b | 706 | CLA | CMC-C2C | -2.15 | 1.46 | 1.50 |
| 29 | b | 705 | CLA | CMD-C2D | -2.15 | 1.46 | 1.50 |
| 29 | B | 311 | CLA | CMC-C2C | -2.15 | 1.46 | 1.50 |
| 36 | G | 307 | DD6 | C19-C18 | -2.15 | 1.49 | 1.52 |
| 29 | l | 502 | CLA | CMC-C2C | -2.15 | 1.46 | 1.50 |
| 29 | b | 724 | CLA | CMD-C2D | -2.14 | 1.46 | 1.50 |
| 39 | D | 310 | KC1 | C4A-C3A | -2.14 | 1.40 | 1.44 |
| 29 | b | 715 | CLA | CMD-C2D | -2.14 | 1.46 | 1.50 |
| 29 | G | 316 | CLA | C3B-C2B | -2.14 | 1.37 | 1.40 |
| 29 | P | 217 | CLA | CMC-C2C | -2.14 | 1.46 | 1.50 |
| 29 | J | 311 | CLA | C3B-C2B | -2.14 | 1.37 | 1.40 |
| 29 | b | 717 | CLA | CMD-C2D | -2.14 | 1.46 | 1.50 |
| 32 | b | 729 | BCR | C30-C25 | -2.14 | 1.50 | 1.53 |
| 34 | K | 220 | LMG | O7-C8 | -2.14 | 1.41 | 1.46 |
| 29 | Q | 312 | CLA | CMD-C2D | -2.14 | 1.46 | 1.50 |
| 29 | b | 710 | CLA | CMD-C2D | -2.14 | 1.46 | 1.50 |
| 29 | a | 814 | CLA | CMC-C2C | -2.14 | 1.46 | 1.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 36 | T | 303 | DD6 | O1-C20 | -2.14 | 1.43 | 1.46 |
| 29 | A | 218 | CLA | CMD-C2D | -2.13 | 1.46 | 1.50 |
| 29 | G | 316 | CLA | CMD-C2D | -2.13 | 1.46 | 1.50 |
| 29 | O | 313 | CLA | CMD-C2D | -2.13 | 1.46 | 1.50 |
| 29 | l | 502 | CLA | C3B-C2B | -2.13 | 1.37 | 1.40 |
| 29 | G | 312 | CLA | CMD-C2D | -2.13 | 1.46 | 1.50 |
| 29 | M | 311 | CLA | CMD-C2D | -2.13 | 1.46 | 1.50 |
| 29 | D | 316 | CLA | CMC-C2C | -2.13 | 1.46 | 1.50 |
| 29 | f | 802 | CLA | CMD-C2D | -2.13 | 1.46 | 1.50 |
| 29 | M | 315 | CLA | CMD-C2D | -2.13 | 1.46 | 1.50 |
| 29 | L | 316 | CLA | CMC-C2C | -2.13 | 1.46 | 1.50 |
| 29 | B | 311 | CLA | CMD-C2D | -2.13 | 1.46 | 1.50 |
| 29 | b | 701 | CLA | CMD-C2D | -2.13 | 1.46 | 1.50 |
| 29 | A | 211 | CLA | CMD-C2D | -2.13 | 1.46 | 1.50 |
| 29 | a | 803 | CLA | CMD-C2D | -2.13 | 1.46 | 1.50 |
| 29 | a | 807 | CLA | CMD-C2D | -2.13 | 1.46 | 1.50 |
| 29 | b | 722 | CLA | CMD-C2D | -2.13 | 1.46 | 1.50 |
| 29 | b | 726 | CLA | CMD-C2D | -2.13 | 1.46 | 1.50 |
| 29 | a | 823 | CLA | CMC-C2C | -2.13 | 1.46 | 1.50 |
| 39 | H | 309 | KC1 | C4A-C3A | -2.12 | 1.40 | 1.44 |
| 29 | i | 201 | CLA | CMD-C2D | -2.12 | 1.46 | 1.50 |
| 29 | b | 722 | CLA | CMC-C2C | -2.12 | 1.46 | 1.50 |
| 29 | K | 209 | CLA | CMD-C2D | -2.12 | 1.46 | 1.50 |
| 29 | K | 211 | CLA | CMD-C2D | -2.12 | 1.46 | 1.50 |
| 38 | Q | 305 | UIX | C15-C20 | -2.12 | 1.51 | 1.54 |
| 39 | G | 318 | KC1 | C4A-C3A | -2.12 | 1.40 | 1.44 |
| 40 | J | 314 | SQD | O8-S | 2.12 | 1.55 | 1.47 |
| 29 | a | 804 | CLA | CMC-C2C | -2.12 | 1.46 | 1.50 |
| 29 | D | 308 | CLA | CMD-C2D | -2.12 | 1.46 | 1.50 |
| 29 | a | 825 | CLA | C3B-C2B | -2.12 | 1.37 | 1.40 |
| 29 | J | 311 | CLA | CMD-C2D | -2.12 | 1.46 | 1.50 |
| 37 | H | 306 | PID | C8-C9 | -2.12 | 1.41 | 1.46 |
| 29 | I | 201 | CLA | CMD-C2D | -2.12 | 1.46 | 1.50 |
| 29 | b | 736 | CLA | C3B-C2B | -2.12 | 1.37 | 1.40 |
| 39 | P | 213 | KC1 | C4A-C3A | -2.12 | 1.40 | 1.44 |
| 29 | G | 314 | CLA | CMD-C2D | -2.12 | 1.46 | 1.50 |
| 29 | I | 207 | CLA | CMD-C2D | -2.12 | 1.46 | 1.50 |
| 29 | E | 308 | CLA | CMD-C2D | -2.12 | 1.46 | 1.50 |
| 29 | l | 502 | CLA | CMD-C2D | -2.11 | 1.46 | 1.50 |
| 29 | G | 314 | CLA | CMC-C2C | -2.11 | 1.46 | 1.50 |
| 29 | F | 308 | CLA | CMD-C2D | -2.11 | 1.46 | 1.50 |
| 29 | B | 316 | CLA | CMD-C2D | -2.11 | 1.46 | 1.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 39 | Q | 309 | KC1 | C4A-C3A | -2.11 | 1.40 | 1.44 |
| 29 | a | 823 | CLA | CMD-C2D | -2.11 | 1.46 | 1.50 |
| 29 | a | 825 | CLA | CMC-C2C | -2.11 | 1.46 | 1.50 |
| 29 | Q | 310 | CLA | CMD-C2D | -2.11 | 1.46 | 1.50 |
| 36 | F | 301 | DD6 | C19-C20 | 2.11 | 1.55 | 1.52 |
| 29 | G | 311 | CLA | CMD-C2D | -2.11 | 1.46 | 1.50 |
| 29 | b | 715 | CLA | CMC-C2C | -2.11 | 1.46 | 1.50 |
| 29 | A | 208 | CLA | CMD-C2D | -2.11 | 1.46 | 1.50 |
| 29 | K | 208 | CLA | CMD-C2D | -2.11 | 1.46 | 1.50 |
| 29 | i | 202 | CLA | CMD-C2D | -2.11 | 1.46 | 1.50 |
| 29 | I | 213 | CLA | CMD-C2D | -2.11 | 1.46 | 1.50 |
| 29 | J | 310 | CLA | CMD-C2D | -2.11 | 1.46 | 1.50 |
| 29 | b | 703 | CLA | CMC-C2C | -2.11 | 1.46 | 1.50 |
| 29 | L | 308 | CLA | CMD-C2D | -2.11 | 1.46 | 1.50 |
| 29 | b | 716 | CLA | CMD-C2D | -2.11 | 1.46 | 1.50 |
| 29 | K | 217 | CLA | CMD-C2D | -2.11 | 1.46 | 1.50 |
| 29 | C | 309 | CLA | CMD-C2D | -2.11 | 1.46 | 1.50 |
| 29 | K | 217 | CLA | C3B-C2B | -2.11 | 1.37 | 1.40 |
| 36 | M | 302 | DD6 | O1-C20 | -2.10 | 1.43 | 1.46 |
| 29 | F | 312 | CLA | CMD-C2D | -2.10 | 1.46 | 1.50 |
| 29 | K | 211 | CLA | CMC-C2C | -2.10 | 1.46 | 1.50 |
| 29 | L | 309 | CLA | CMD-C2D | -2.10 | 1.46 | 1.50 |
| 29 | M | 307 | CLA | CMD-C2D | -2.10 | 1.46 | 1.50 |
| 29 | A | 207 | CLA | CMD-C2D | -2.10 | 1.46 | 1.50 |
| 29 | E | 305 | CLA | CMD-C2D | -2.10 | 1.46 | 1.50 |
| 29 | I | 212 | CLA | CMD-C2D | -2.10 | 1.46 | 1.50 |
| 29 | b | 702 | CLA | CMD-C2D | -2.10 | 1.46 | 1.50 |
| 39 | H | 314 | KC1 | C4A-C3A | -2.10 | 1.40 | 1.44 |
| 29 | b | 706 | CLA | CMD-C2D | -2.10 | 1.46 | 1.50 |
| 39 | N | 312 | KC1 | C4A-C3A | -2.10 | 1.40 | 1.44 |
| 29 | G | 304 | CLA | CMD-C2D | -2.10 | 1.46 | 1.50 |
| 29 | b | 711 | CLA | CMD-C2D | -2.10 | 1.46 | 1.50 |
| 29 | F | 307 | CLA | CMD-C2D | -2.10 | 1.46 | 1.50 |
| 29 | J | 307 | CLA | CMD-C2D | -2.10 | 1.46 | 1.50 |
| 29 | b | 724 | CLA | CMC-C2C | -2.10 | 1.46 | 1.50 |
| 29 | B | 315 | CLA | CMD-C2D | -2.10 | 1.46 | 1.50 |
| 29 | A | 216 | CLA | CMD-C2D | -2.10 | 1.46 | 1.50 |
| 29 | B | 306 | CLA | CMD-C2D | -2.10 | 1.46 | 1.50 |
| 29 | N | 314 | CLA | CMC-C2C | -2.10 | 1.46 | 1.50 |
| 29 | b | 708 | CLA | CMC-C2C | -2.09 | 1.46 | 1.50 |
| 38 | C | 306 | UIX | C15-C20 | -2.09 | 1.51 | 1.54 |
| 36 | D | 304 | DD6 | O1-C20 | -2.09 | 1.43 | 1.46 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 36 | B | 302 | DD6 | O1-C20 | -2.09 | 1.43 | 1.46 |
| 29 | M | 313 | CLA | CMC-C2C | -2.09 | 1.46 | 1.50 |
| 39 | T | 310 | KC1 | C4A-C3A | -2.09 | 1.40 | 1.44 |
| 39 | T | 315 | KC1 | C4A-C3A | -2.09 | 1.40 | 1.44 |
| 29 | a | 806 | CLA | CMC-C2C | -2.09 | 1.46 | 1.50 |
| 36 | A | 201 | DD6 | O1-C20 | -2.09 | 1.43 | 1.46 |
| 29 | l | 501 | CLA | CMD-C2D | -2.09 | 1.46 | 1.50 |
| 29 | H | 312 | CLA | CMD-C2D | -2.09 | 1.46 | 1.50 |
| 29 | G | 301 | CLA | CMD-C2D | -2.09 | 1.46 | 1.50 |
| 29 | b | 707 | CLA | CMD-C2D | -2.09 | 1.46 | 1.50 |
| 29 | M | 310 | CLA | CMD-C2D | -2.09 | 1.46 | 1.50 |
| 29 | F | 316 | CLA | CMD-C2D | -2.09 | 1.46 | 1.50 |
| 29 | a | 824 | CLA | CMC-C2C | -2.09 | 1.46 | 1.50 |
| 29 | a | 830 | CLA | CMD-C2D | -2.09 | 1.46 | 1.50 |
| 36 | F | 303 | DD6 | O1-C20 | -2.09 | 1.43 | 1.46 |
| 29 | O | 309 | CLA | CMD-C2D | -2.09 | 1.46 | 1.50 |
| 29 | a | 829 | CLA | CMD-C2D | -2.08 | 1.46 | 1.50 |
| 29 | B | 309 | CLA | CMD-C2D | -2.08 | 1.46 | 1.50 |
| 29 | a | 807 | CLA | CMC-C2C | -2.08 | 1.46 | 1.50 |
| 29 | K | 210 | CLA | CMD-C2D | -2.08 | 1.46 | 1.50 |
| 29 | K | 207 | CLA | CMD-C2D | -2.08 | 1.46 | 1.50 |
| 29 | a | 820 | CLA | C3B-CAB | -2.08 | 1.43 | 1.47 |
| 29 | b | 720 | CLA | CMD-C2D | -2.08 | 1.46 | 1.50 |
| 29 | b | 718 | CLA | CMC-C2C | -2.08 | 1.46 | 1.50 |
| 29 | B | 307 | CLA | CMD-C2D | -2.08 | 1.46 | 1.50 |
| 29 | l | 503 | CLA | C3B-C2B | -2.08 | 1.37 | 1.40 |
| 29 | I | 208 | CLA | CMD-C2D | -2.08 | 1.46 | 1.50 |
| 29 | H | 307 | CLA | CMD-C2D | -2.08 | 1.46 | 1.50 |
| 29 | l | 503 | CLA | CMC-C2C | -2.08 | 1.46 | 1.50 |
| 29 | G | 317 | CLA | CMD-C2D | -2.08 | 1.46 | 1.50 |
| 29 | K | 213 | CLA | CMC-C2C | -2.08 | 1.46 | 1.50 |
| 36 | K | 221 | DD6 | O1-C20 | -2.08 | 1.43 | 1.46 |
| 29 | L | 315 | CLA | CMC-C2C | -2.08 | 1.46 | 1.50 |
| 29 | T | 309 | CLA | CMC-C2C | -2.08 | 1.46 | 1.50 |
| 29 | a | 801 | CLA | C3B-C2B | -2.08 | 1.37 | 1.40 |
| 29 | I | 209 | CLA | CMD-C2D | -2.08 | 1.46 | 1.50 |
| 29 | b | 726 | CLA | CMC-C2C | -2.08 | 1.46 | 1.50 |
| 29 | l | 509 | CLA | CMD-C2D | -2.08 | 1.46 | 1.50 |
| 29 | B | 314 | CLA | CMC-C2C | -2.08 | 1.46 | 1.50 |
| 29 | a | 827 | CLA | CMD-C2D | -2.08 | 1.46 | 1.50 |
| 29 | L | 317 | CLA | CMD-C2D | -2.08 | 1.46 | 1.50 |
| 29 | Q | 315 | CLA | CMD-C2D | -2.08 | 1.46 | 1.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 29 | B | 308 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 29 | b | 736 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 29 | I | 217 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 29 | a | 822 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 39 | C | 315 | KC1 | C4A-C3A | -2.07 | 1.40 | 1.44 |
| 29 | a | 801 | CLA | CMC-C2C | -2.07 | 1.46 | 1.50 |
| 29 | b | 709 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 29 | h | 201 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 29 | A | 210 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 29 | l | 510 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 29 | O | 314 | CLA | CMC-C2C | -2.07 | 1.46 | 1.50 |
| 29 | b | 712 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 29 | b | 701 | CLA | CMC-C2C | -2.07 | 1.46 | 1.50 |
| 29 | F | 313 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 29 | L | 311 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 29 | I | 210 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 29 | A | 209 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 29 | a | 814 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 39 | D | 315 | KC1 | C4A-C3A | -2.07 | 1.40 | 1.44 |
| 29 | B | 312 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 29 | j | 104 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 29 | L | 307 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 29 | O | 314 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 29 | P | 214 | CLA | CMD-C2D | -2.07 | 1.46 | 1.50 |
| 29 | b | 721 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 29 | A | 212 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 29 | J | 307 | CLA | C3B-CAB | -2.06 | 1.43 | 1.47 |
| 29 | a | 812 | CLA | CMC-C2C | -2.06 | 1.46 | 1.50 |
| 29 | L | 315 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 29 | N | 309 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 29 | a | 818 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 29 | A | 206 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 29 | J | 308 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 39 | P | 216 | KC1 | C4A-C3A | -2.06 | 1.40 | 1.44 |
| 29 | b | 714 | CLA | CMC-C2C | -2.06 | 1.46 | 1.50 |
| 29 | a | 810 | CLA | C3B-C2B | -2.06 | 1.37 | 1.40 |
| 29 | C | 311 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 29 | b | 705 | CLA | C3B-CAB | -2.06 | 1.43 | 1.47 |
| 29 | H | 308 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 29 | G | 319 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 36 | F | 301 | DD6 | C21-C20 | 2.06 | 1.55 | 1.51 |
| 29 | I | 211 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 29 | a | 815 | CLA | CMC-C2C | -2.06 | 1.46 | 1.50 |
| 36 | J | 301 | DD6 | O1-C20 | -2.06 | 1.43 | 1.46 |
| 29 | b | 704 | CLA | CMC-C2C | -2.06 | 1.46 | 1.50 |
| 29 | b | 716 | CLA | CMC-C2C | -2.06 | 1.46 | 1.50 |
| 29 | J | 305 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 29 | I | 216 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 29 | Q | 313 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 36 | G | 307 | DD6 | C10-C11 | -2.06 | 1.33 | 1.35 |
| 29 | M | 307 | CLA | CMC-C2C | -2.06 | 1.46 | 1.50 |
| 29 | C | 314 | CLA | CMD-C2D | -2.06 | 1.46 | 1.50 |
| 36 | G | 307 | DD6 | C2-C1 | -2.05 | 1.33 | 1.35 |
| 29 | a | 811 | CLA | CMD-C2D | -2.05 | 1.46 | 1.50 |
| 29 | E | 311 | CLA | CMD-C2D | -2.05 | 1.46 | 1.50 |
| 29 | a | 827 | CLA | CMC-C2C | -2.05 | 1.46 | 1.50 |
| 29 | Q | 307 | CLA | CMD-C2D | -2.05 | 1.46 | 1.50 |
| 29 | F | 308 | CLA | CMC-C2C | -2.05 | 1.46 | 1.50 |
| 29 | b | 707 | CLA | CMC-C2C | -2.05 | 1.46 | 1.50 |
| 29 | Q | 308 | CLA | CMD-C2D | -2.05 | 1.46 | 1.50 |
| 29 | b | 710 | CLA | CMC-C2C | -2.05 | 1.46 | 1.50 |
| 29 | a | 825 | CLA | CMD-C2D | -2.05 | 1.46 | 1.50 |
| 29 | C | 316 | CLA | CMD-C2D | -2.05 | 1.46 | 1.50 |
| 29 | D | 314 | CLA | CMC-C2C | -2.05 | 1.46 | 1.50 |
| 29 | a | 809 | CLA | CMD-C2D | -2.05 | 1.46 | 1.50 |
| 29 | a | 815 | CLA | CMD-C2D | -2.05 | 1.46 | 1.50 |
| 29 | F | 311 | CLA | CMD-C2D | -2.05 | 1.46 | 1.50 |
| 29 | J | 309 | CLA | CMD-C2D | -2.05 | 1.46 | 1.50 |
| 29 | a | 805 | CLA | CMC-C2C | -2.05 | 1.46 | 1.50 |
| 35 | b | 733 | DGD | O3G-C1D | 2.05 | 1.43 | 1.40 |
| 29 | b | 725 | CLA | CMC-C2C | -2.05 | 1.46 | 1.50 |
| 29 | b | 731 | CLA | CMD-C2D | -2.05 | 1.46 | 1.50 |
| 29 | E | 306 | CLA | CMC-C2C | -2.05 | 1.46 | 1.50 |
| 39 | H | 311 | KC1 | C4A-C3A | -2.05 | 1.40 | 1.44 |
| 29 | b | 709 | CLA | CMC-C2C | -2.05 | 1.46 | 1.50 |
| 29 | i | 202 | CLA | CMC-C2C | -2.05 | 1.46 | 1.50 |
| 29 | K | 216 | CLA | CMC-C2C | -2.05 | 1.46 | 1.50 |
| 29 | D | 312 | CLA | CMD-C2D | -2.05 | 1.46 | 1.50 |
| 29 | E | 309 | CLA | CMD-C2D | -2.05 | 1.46 | 1.50 |
| 29 | L | 310 | CLA | CMD-C2D | -2.05 | 1.46 | 1.50 |
| 29 | A | 210 | CLA | C3B-C2B | -2.05 | 1.37 | 1.40 |
| 29 | a | 821 | CLA | CMD-C2D | -2.04 | 1.46 | 1.50 |
| 29 | a | 804 | CLA | CMD-C2D | -2.04 | 1.46 | 1.50 |
| 29 | f | 802 | CLA | CMC-C2C | -2.04 | 1.46 | 1.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 29 | E | 314 | CLA | CMD-C2D | -2.04 | 1.46 | 1.50 |
| 29 | I | 211 | CLA | CMC-C2C | -2.04 | 1.46 | 1.50 |
| 29 | D | 311 | CLA | CMD-C2D | -2.04 | 1.46 | 1.50 |
| 29 | D | 314 | CLA | CMD-C2D | -2.04 | 1.46 | 1.50 |
| 29 | E | 313 | CLA | CMD-C2D | -2.04 | 1.46 | 1.50 |
| 29 | B | 308 | CLA | CMC-C2C | -2.04 | 1.46 | 1.50 |
| 29 | a | 813 | CLA | CMD-C2D | -2.04 | 1.46 | 1.50 |
| 29 | O | 311 | CLA | CMC-C2C | -2.04 | 1.46 | 1.50 |
| 29 | T | 316 | CLA | CMD-C2D | -2.04 | 1.46 | 1.50 |
| 29 | M | 306 | CLA | CMD-C2D | -2.04 | 1.46 | 1.50 |
| 29 | Q | 315 | CLA | CMC-C2C | -2.04 | 1.46 | 1.50 |
| 29 | b | 736 | CLA | C3B-CAB | -2.04 | 1.43 | 1.47 |
| 29 | a | 801 | CLA | MG-ND | -2.04 | 2.01 | 2.05 |
| 29 | J | 306 | CLA | CMC-C2C | -2.04 | 1.46 | 1.50 |
| 29 | a | 816 | CLA | CMC-C2C | -2.03 | 1.46 | 1.50 |
| 29 | a | 816 | CLA | CMD-C2D | -2.03 | 1.46 | 1.50 |
| 29 | A | 208 | CLA | CMC-C2C | -2.03 | 1.46 | 1.50 |
| 29 | G | 304 | CLA | CMC-C2C | -2.03 | 1.46 | 1.50 |
| 29 | a | 819 | CLA | CMD-C2D | -2.03 | 1.46 | 1.50 |
| 29 | l | 503 | CLA | CMD-C2D | -2.03 | 1.46 | 1.50 |
| 29 | M | 308 | CLA | CMC-C2C | -2.03 | 1.46 | 1.50 |
| 29 | l | 502 | CLA | C3B-CAB | -2.03 | 1.43 | 1.47 |
| 36 | L | 301 | DD6 | O1-C20 | -2.03 | 1.43 | 1.46 |
| 29 | O | 308 | CLA | CMD-C2D | -2.03 | 1.46 | 1.50 |
| 29 | G | 317 | CLA | CMC-C2C | -2.03 | 1.46 | 1.50 |
| 29 | K | 208 | CLA | CMC-C2C | -2.03 | 1.46 | 1.50 |
| 29 | M | 313 | CLA | CMD-C2D | -2.03 | 1.46 | 1.50 |
| 29 | A | 207 | CLA | CMC-C2C | -2.03 | 1.46 | 1.50 |
| 29 | K | 214 | CLA | CMD-C2D | -2.03 | 1.46 | 1.50 |
| 29 | G | 312 | CLA | CMC-C2C | -2.03 | 1.46 | 1.50 |
| 29 | H | 315 | CLA | CMD-C2D | -2.03 | 1.46 | 1.50 |
| 29 | M | 308 | CLA | CMD-C2D | -2.03 | 1.46 | 1.50 |
| 29 | L | 313 | CLA | CMC-C2C | -2.03 | 1.46 | 1.50 |
| 29 | H | 313 | CLA | CMC-C2C | -2.03 | 1.46 | 1.50 |
| 29 | b | 721 | CLA | C3B-C2B | -2.03 | 1.37 | 1.40 |
| 29 | a | 817 | CLA | CMD-C2D | -2.02 | 1.46 | 1.50 |
| 29 | b | 724 | CLA | C3B-C2B | -2.02 | 1.37 | 1.40 |
| 29 | b | 721 | CLA | CMC-C2C | -2.02 | 1.46 | 1.50 |
| 29 | E | 315 | CLA | CMD-C2D | -2.02 | 1.46 | 1.50 |
| 29 | A | 215 | CLA | CMC-C2C | -2.02 | 1.46 | 1.50 |
| 29 | a | 801 | CLA | C3B-CAB | -2.02 | 1.43 | 1.47 |
| 29 | M | 309 | CLA | CMD-C2D | -2.02 | 1.46 | 1.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 29 | a | 813 | CLA | CMC-C2C | -2.02 | 1.46 | 1.50 |
| 29 | b | 708 | CLA | CMD-C2D | -2.02 | 1.46 | 1.50 |
| 29 | a | 828 | CLA | CMD-C2D | -2.02 | 1.46 | 1.50 |
| 29 | O | 316 | CLA | CMC-C2C | -2.02 | 1.46 | 1.50 |
| 29 | l | 508 | CLA | CMC-C2C | -2.02 | 1.46 | 1.50 |
| 29 | K | 214 | CLA | CMC-C2C | -2.02 | 1.46 | 1.50 |
| 29 | a | 808 | CLA | C3B-C2B | -2.02 | 1.37 | 1.40 |
| 29 | I | 207 | CLA | CMC-C2C | -2.02 | 1.46 | 1.50 |
| 29 | E | 310 | CLA | CMD-C2D | -2.02 | 1.46 | 1.50 |
| 29 | I | 214 | CLA | CMC-C2C | -2.02 | 1.46 | 1.50 |
| 29 | a | 828 | CLA | CMC-C2C | -2.02 | 1.46 | 1.50 |
| 29 | l | 508 | CLA | CMD-C2D | -2.02 | 1.46 | 1.50 |
| 29 | j | 104 | CLA | CMC-C2C | -2.02 | 1.46 | 1.50 |
| 29 | E | 311 | CLA | CMC-C2C | -2.02 | 1.46 | 1.50 |
| 29 | l | 509 | CLA | CMC-C2C | -2.02 | 1.46 | 1.50 |
| 36 | M | 304 | DD6 | O1-C20 | -2.02 | 1.43 | 1.46 |
| 29 | b | 720 | CLA | C3B-C2B | -2.02 | 1.37 | 1.40 |
| 29 | E | 314 | CLA | CMC-C2C | -2.01 | 1.46 | 1.50 |
| 29 | a | 820 | CLA | CMC-C2C | -2.01 | 1.46 | 1.50 |
| 29 | P | 210 | CLA | CMD-C2D | -2.01 | 1.46 | 1.50 |
| 29 | J | 311 | CLA | CMC-C2C | -2.01 | 1.46 | 1.50 |
| 29 | I | 209 | CLA | CMC-C2C | -2.01 | 1.46 | 1.50 |
| 29 | N | 314 | CLA | CMD-C2D | -2.01 | 1.46 | 1.50 |
| 29 | B | 312 | CLA | CMC-C2C | -2.01 | 1.46 | 1.50 |
| 29 | b | 723 | CLA | CMC-C2C | -2.01 | 1.46 | 1.50 |
| 29 | K | 209 | CLA | CMC-C2C | -2.01 | 1.46 | 1.50 |
| 29 | a | 827 | CLA | C3B-CAB | -2.01 | 1.43 | 1.47 |
| 29 | b | 720 | CLA | CMC-C2C | -2.01 | 1.46 | 1.50 |
| 29 | J | 313 | CLA | CMD-C2D | -2.01 | 1.46 | 1.50 |
| 29 | K | 217 | CLA | CMC-C2C | -2.01 | 1.46 | 1.50 |
| 29 | N | 308 | CLA | CMD-C2D | -2.01 | 1.46 | 1.50 |
| 29 | a | 831 | CLA | CMC-C2C | -2.01 | 1.46 | 1.50 |
| 29 | J | 311 | CLA | C3B-CAB | -2.01 | 1.43 | 1.47 |
| 29 | D | 309 | CLA | CMD-C2D | -2.01 | 1.46 | 1.50 |
| 29 | T | 313 | CLA | CMD-C2D | -2.01 | 1.46 | 1.50 |
| 29 | a | 803 | CLA | CMC-C2C | -2.01 | 1.46 | 1.50 |
| 29 | A | 212 | CLA | CMC-C2C | -2.01 | 1.46 | 1.50 |
| 29 | I | 216 | CLA | CMC-C2C | -2.01 | 1.46 | 1.50 |
| 29 | C | 308 | CLA | CMD-C2D | -2.01 | 1.46 | 1.50 |
| 29 | A | 216 | CLA | CMC-C2C | -2.01 | 1.46 | 1.50 |
| 29 | Q | 308 | CLA | CMC-C2C | -2.01 | 1.46 | 1.50 |
| 29 | G | 312 | CLA | C3B-C2B | -2.01 | 1.37 | 1.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 32 | b | 728 | BCR | C1-C6 | -2.01 | 1.51 | 1.53 |
| 29 | b | 724 | CLA | C3B-CAB | -2.01 | 1.43 | 1.47 |
| 29 | T | 309 | CLA | CMD-C2D | -2.00 | 1.46 | 1.50 |
| 29 | P | 212 | CLA | CMD-C2D | -2.00 | 1.46 | 1.50 |
| 29 | a | 809 | CLA | CMC-C2C | -2.00 | 1.46 | 1.50 |
| 29 | L | 307 | CLA | CMC-C2C | -2.00 | 1.46 | 1.50 |
| 29 | H | 310 | CLA | CMD-C2D | -2.00 | 1.46 | 1.50 |
| 29 | b | 704 | CLA | C3B-C2B | -2.00 | 1.37 | 1.40 |
| 29 | b | 725 | CLA | C3B-C2B | -2.00 | 1.37 | 1.40 |
| 29 | a | 819 | CLA | CMC-C2C | -2.00 | 1.46 | 1.50 |
| 29 | a | 829 | CLA | CMC-C2C | -2.00 | 1.46 | 1.50 |
| 29 | b | 712 | CLA | CMC-C2C | -2.00 | 1.46 | 1.50 |
| 29 | G | 301 | CLA | CMC-C2C | -2.00 | 1.46 | 1.50 |
| 29 | N | 316 | CLA | CMD-C2D | -2.00 | 1.46 | 1.50 |
| 29 | B | 310 | CLA | CMC-C2C | -2.00 | 1.46 | 1.50 |
| 29 | K | 214 | CLA | C3B-CAB | -2.00 | 1.43 | 1.47 |
| 38 | T | 306 | UIX | C15-C20 | -2.00 | 1.51 | 1.54 |
| 29 | T | 308 | CLA | CMD-C2D | -2.00 | 1.46 | 1.50 |
| 36 | h | 202 | DD6 | C-C1 | -2.00 | 1.46 | 1.50 |
| 29 | G | 316 | CLA | CMC-C2C | -2.00 | 1.46 | 1.50 |
| 29 | G | 304 | CLA | C3B-CAB | -2.00 | 1.43 | 1.47 |
| 38 | N | 306 | UIX | C15-C20 | -2.00 | 1.51 | 1.54 |

All (3687) bond angle outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|--------|-------------|----------|
| 29 | L | 308 | CLA | O2D-CGD-CBD | 26.55 | 158.46 | 111.27 |
| 29 | b | 736 | CLA | O2D-CGD-CBD | 26.54 | 158.43 | 111.27 |
| 29 | I | 209 | CLA | O2D-CGD-CBD | 26.47 | 158.31 | 111.27 |
| 29 | I | 212 | CLA | O2D-CGD-CBD | 26.29 | 157.99 | 111.27 |
| 29 | a | 831 | CLA | O2D-CGD-CBD | 26.25 | 157.91 | 111.27 |
| 29 | L | 307 | CLA | O2D-CGD-CBD | 26.21 | 157.84 | 111.27 |
| 29 | a | 830 | CLA | O2D-CGD-CBD | 26.14 | 157.72 | 111.27 |
| 29 | I | 208 | CLA | O2D-CGD-CBD | 25.92 | 157.32 | 111.27 |
| 29 | G | 316 | CLA | O2D-CGD-CBD | 25.79 | 157.10 | 111.27 |
| 29 | I | 209 | CLA | O2D-CGD-O1D | -25.63 | 73.74 | 123.84 |
| 29 | L | 308 | CLA | O2D-CGD-O1D | -25.60 | 73.79 | 123.84 |
| 29 | a | 831 | CLA | O2D-CGD-O1D | -25.53 | 73.93 | 123.84 |
| 29 | I | 208 | CLA | O2D-CGD-O1D | -25.48 | 74.02 | 123.84 |
| 29 | L | 307 | CLA | O2D-CGD-O1D | -25.44 | 74.09 | 123.84 |
| 29 | I | 212 | CLA | O2D-CGD-O1D | -25.39 | 74.19 | 123.84 |
| 29 | b | 736 | CLA | O2D-CGD-O1D | -25.39 | 74.20 | 123.84 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|--------|-------------|----------|
| 29 | a | 830 | CLA | O2D-CGD-O1D | -25.39 | 74.20 | 123.84 |
| 29 | G | 316 | CLA | O2D-CGD-O1D | -24.98 | 75.00 | 123.84 |
| 29 | b | 712 | CLA | C4-C3-C5 | -22.62 | 77.21 | 115.27 |
| 29 | b | 736 | CLA | C4-C3-C5 | -22.61 | 77.23 | 115.27 |
| 29 | I | 213 | CLA | C4-C3-C5 | -22.44 | 77.52 | 115.27 |
| 29 | l | 504 | CLA | C4-C3-C5 | -22.41 | 77.57 | 115.27 |
| 29 | I | 212 | CLA | C4-C3-C5 | -22.38 | 77.62 | 115.27 |
| 29 | G | 316 | CLA | O1D-CGD-CBD | -20.71 | 82.11 | 124.48 |
| 29 | N | 313 | CLA | O2D-CGD-O1D | -20.59 | 83.57 | 123.84 |
| 29 | b | 704 | CLA | O2D-CGD-O1D | -20.50 | 83.76 | 123.84 |
| 29 | I | 208 | CLA | O1D-CGD-CBD | -20.12 | 83.31 | 124.48 |
| 29 | a | 830 | CLA | O1D-CGD-CBD | -20.02 | 83.53 | 124.48 |
| 29 | L | 307 | CLA | O1D-CGD-CBD | -19.91 | 83.75 | 124.48 |
| 29 | I | 212 | CLA | O1D-CGD-CBD | -19.88 | 83.80 | 124.48 |
| 29 | a | 831 | CLA | O1D-CGD-CBD | -19.79 | 83.98 | 124.48 |
| 29 | b | 736 | CLA | O1D-CGD-CBD | -19.67 | 84.23 | 124.48 |
| 29 | I | 209 | CLA | O1D-CGD-CBD | -19.50 | 84.58 | 124.48 |
| 29 | L | 308 | CLA | O1D-CGD-CBD | -19.46 | 84.67 | 124.48 |
| 29 | I | 212 | CLA | C5-C3-C2 | 19.34 | 160.26 | 121.12 |
| 29 | I | 213 | CLA | C5-C3-C2 | 19.31 | 160.18 | 121.12 |
| 29 | l | 504 | CLA | C5-C3-C2 | 19.21 | 159.99 | 121.12 |
| 29 | N | 313 | CLA | O1D-CGD-CBD | 19.20 | 163.76 | 124.48 |
| 29 | b | 736 | CLA | C5-C3-C2 | 19.14 | 159.84 | 121.12 |
| 29 | b | 712 | CLA | C5-C3-C2 | 19.12 | 159.81 | 121.12 |
| 29 | b | 704 | CLA | O1D-CGD-CBD | 18.85 | 163.06 | 124.48 |
| 29 | b | 704 | CLA | O2D-CGD-CBD | -17.90 | 79.46 | 111.27 |
| 29 | N | 313 | CLA | O2D-CGD-CBD | -17.44 | 80.27 | 111.27 |
| 29 | l | 504 | CLA | C4-C3-C2 | -16.08 | 82.42 | 123.68 |
| 29 | b | 712 | CLA | C4-C3-C2 | -16.01 | 82.59 | 123.68 |
| 29 | b | 736 | CLA | C4-C3-C2 | -16.00 | 82.62 | 123.68 |
| 29 | I | 212 | CLA | C4-C3-C2 | -15.99 | 82.65 | 123.68 |
| 29 | I | 213 | CLA | C4-C3-C2 | -15.99 | 82.67 | 123.68 |
| 36 | K | 202 | DD6 | C21-C20-C19 | 11.94 | 127.71 | 114.28 |
| 38 | F | 305 | UIX | O-C1-C3 | 10.77 | 121.47 | 113.38 |
| 36 | G | 305 | DD6 | C21-C20-C19 | 10.48 | 126.07 | 114.28 |
| 37 | P | 208 | PID | C18-C19-C20 | 10.14 | 144.25 | 123.47 |
| 36 | K | 202 | DD6 | C21-C20-C15 | -9.67 | 106.05 | 122.26 |
| 38 | J | 304 | UIX | O-C1-C3 | 9.62 | 120.61 | 113.38 |
| 38 | L | 302 | UIX | O-C1-C3 | 8.03 | 119.42 | 113.38 |
| 38 | E | 304 | UIX | O-C1-C3 | 7.90 | 119.32 | 113.38 |
| 37 | C | 305 | PID | C17-C16-C15 | 7.87 | 139.60 | 123.47 |
| 37 | E | 301 | PID | C17-C16-C15 | 7.82 | 139.49 | 123.47 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 38 | B | 304 | UIX | O-C1-C3 | 7.72 | 119.18 | 113.38 |
| 36 | G | 305 | DD6 | C21-C20-C15 | -7.54 | 109.62 | 122.26 |
| 36 | I | 203 | DD6 | O1-C20-C19 | 7.44 | 118.97 | 113.38 |
| 29 | P | 215 | CLA | C4A-NA-C1A | 7.44 | 110.05 | 106.71 |
| 36 | G | 305 | DD6 | C3-C2-C1 | -7.38 | 116.78 | 127.31 |
| 36 | J | 301 | DD6 | C3-C2-C1 | -7.28 | 116.92 | 127.31 |
| 29 | b | 706 | CLA | C4A-NA-C1A | 7.22 | 109.95 | 106.71 |
| 29 | H | 313 | CLA | C4A-NA-C1A | 7.18 | 109.94 | 106.71 |
| 29 | a | 801 | CLA | C4A-NA-C1A | 7.13 | 109.91 | 106.71 |
| 38 | L | 302 | UIX | C6-C1-C | -7.12 | 110.33 | 122.26 |
| 29 | a | 810 | CLA | C4A-NA-C1A | 7.12 | 109.91 | 106.71 |
| 29 | j | 104 | CLA | C4A-NA-C1A | 7.08 | 109.89 | 106.71 |
| 36 | M | 302 | DD6 | C3-C2-C1 | -7.06 | 117.23 | 127.31 |
| 38 | Q | 305 | UIX | C14-C13-C11 | -7.05 | 117.25 | 127.31 |
| 29 | G | 304 | CLA | C4A-NA-C1A | 7.03 | 109.86 | 106.71 |
| 29 | i | 201 | CLA | C4A-NA-C1A | 7.01 | 109.86 | 106.71 |
| 38 | A | 203 | UIX | C6-C1-C | -7.01 | 110.51 | 122.26 |
| 29 | L | 307 | CLA | C4A-NA-C1A | 7.00 | 109.85 | 106.71 |
| 29 | P | 217 | CLA | C4A-NA-C1A | 6.98 | 109.84 | 106.71 |
| 29 | F | 311 | CLA | C4A-NA-C1A | 6.98 | 109.84 | 106.71 |
| 29 | F | 310 | CLA | C4A-NA-C1A | 6.97 | 109.84 | 106.71 |
| 36 | K | 202 | DD6 | O1-C20-C19 | -6.96 | 108.15 | 113.38 |
| 38 | B | 304 | UIX | C6-C1-C | -6.96 | 110.59 | 122.26 |
| 29 | N | 313 | CLA | C4A-NA-C1A | 6.96 | 109.83 | 106.71 |
| 29 | C | 314 | CLA | C4A-NA-C1A | 6.96 | 109.83 | 106.71 |
| 29 | b | 736 | CLA | C4A-NA-C1A | 6.95 | 109.83 | 106.71 |
| 29 | b | 721 | CLA | C4A-NA-C1A | 6.95 | 109.83 | 106.71 |
| 38 | E | 304 | UIX | C6-C1-C | -6.95 | 110.61 | 122.26 |
| 37 | P | 208 | PID | C17-C16-C15 | 6.94 | 137.68 | 123.47 |
| 38 | F | 305 | UIX | C34-C30-C26 | -6.93 | 117.42 | 127.31 |
| 29 | I | 207 | CLA | C4A-NA-C1A | 6.92 | 109.82 | 106.71 |
| 29 | T | 309 | CLA | C4A-NA-C1A | 6.89 | 109.81 | 106.71 |
| 36 | F | 301 | DD6 | C9-C10-C11 | -6.87 | 117.50 | 127.31 |
| 29 | C | 316 | CLA | C4A-NA-C1A | 6.84 | 109.78 | 106.71 |
| 29 | F | 315 | CLA | C4A-NA-C1A | 6.84 | 109.78 | 106.71 |
| 29 | G | 314 | CLA | C4A-NA-C1A | 6.83 | 109.78 | 106.71 |
| 36 | h | 202 | DD6 | C21-C20-C19 | 6.81 | 121.94 | 114.28 |
| 39 | K | 215 | KC1 | CHC-C4B-NB | 6.80 | 130.70 | 124.45 |
| 29 | F | 316 | CLA | C4A-NA-C1A | 6.80 | 109.76 | 106.71 |
| 29 | D | 316 | CLA | C4A-NA-C1A | 6.80 | 109.76 | 106.71 |
| 29 | l | 504 | CLA | C4A-NA-C1A | 6.77 | 109.75 | 106.71 |
| 29 | a | 825 | CLA | C4A-NA-C1A | 6.77 | 109.75 | 106.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | D | 314 | CLA | C4A-NA-C1A | 6.77 | 109.75 | 106.71 |
| 29 | a | 804 | CLA | C4A-NA-C1A | 6.76 | 109.75 | 106.71 |
| 29 | A | 206 | CLA | C4A-NA-C1A | 6.76 | 109.75 | 106.71 |
| 29 | B | 311 | CLA | C4A-NA-C1A | 6.76 | 109.75 | 106.71 |
| 29 | T | 314 | CLA | C4A-NA-C1A | 6.76 | 109.74 | 106.71 |
| 29 | a | 812 | CLA | C4A-NA-C1A | 6.76 | 109.74 | 106.71 |
| 29 | I | 216 | CLA | C4A-NA-C1A | 6.75 | 109.74 | 106.71 |
| 29 | E | 309 | CLA | C4A-NA-C1A | 6.74 | 109.74 | 106.71 |
| 29 | l | 501 | CLA | C4A-NA-C1A | 6.74 | 109.74 | 106.71 |
| 36 | G | 307 | DD6 | C3-C2-C1 | -6.74 | 117.69 | 127.31 |
| 29 | I | 208 | CLA | C4A-NA-C1A | 6.74 | 109.73 | 106.71 |
| 29 | J | 309 | CLA | C4A-NA-C1A | 6.73 | 109.73 | 106.71 |
| 29 | P | 214 | CLA | C4A-NA-C1A | 6.73 | 109.73 | 106.71 |
| 29 | b | 701 | CLA | C4A-NA-C1A | 6.72 | 109.73 | 106.71 |
| 38 | J | 304 | UIX | C6-C1-C | -6.72 | 111.00 | 122.26 |
| 29 | b | 702 | CLA | C4A-NA-C1A | 6.72 | 109.73 | 106.71 |
| 29 | F | 313 | CLA | C4A-NA-C1A | 6.72 | 109.73 | 106.71 |
| 29 | Q | 315 | CLA | C4A-NA-C1A | 6.72 | 109.73 | 106.71 |
| 38 | T | 306 | UIX | C14-C13-C11 | -6.72 | 117.72 | 127.31 |
| 29 | B | 314 | CLA | C4A-NA-C1A | 6.72 | 109.72 | 106.71 |
| 29 | l | 502 | CLA | C4A-NA-C1A | 6.71 | 109.72 | 106.71 |
| 29 | I | 201 | CLA | C4A-NA-C1A | 6.71 | 109.72 | 106.71 |
| 29 | B | 312 | CLA | C4A-NA-C1A | 6.71 | 109.72 | 106.71 |
| 29 | Q | 313 | CLA | C4A-NA-C1A | 6.71 | 109.72 | 106.71 |
| 29 | L | 310 | CLA | C4A-NA-C1A | 6.70 | 109.72 | 106.71 |
| 29 | a | 807 | CLA | C4A-NA-C1A | 6.70 | 109.72 | 106.71 |
| 29 | B | 307 | CLA | C4A-NA-C1A | 6.70 | 109.72 | 106.71 |
| 29 | C | 311 | CLA | C4A-NA-C1A | 6.70 | 109.72 | 106.71 |
| 38 | Q | 305 | UIX | C6-C1-C | -6.69 | 111.05 | 122.26 |
| 29 | C | 313 | CLA | C4A-NA-C1A | 6.69 | 109.71 | 106.71 |
| 29 | J | 311 | CLA | C4A-NA-C1A | 6.68 | 109.71 | 106.71 |
| 29 | a | 815 | CLA | C4A-NA-C1A | 6.67 | 109.71 | 106.71 |
| 29 | a | 827 | CLA | C4A-NA-C1A | 6.67 | 109.71 | 106.71 |
| 29 | L | 313 | CLA | C4A-NA-C1A | 6.67 | 109.71 | 106.71 |
| 29 | b | 709 | CLA | C4A-NA-C1A | 6.67 | 109.70 | 106.71 |
| 29 | E | 308 | CLA | C4A-NA-C1A | 6.67 | 109.70 | 106.71 |
| 36 | B | 319 | DD6 | C3-C2-C1 | -6.67 | 117.79 | 127.31 |
| 29 | J | 306 | CLA | C4A-NA-C1A | 6.66 | 109.70 | 106.71 |
| 29 | M | 313 | CLA | C4A-NA-C1A | 6.66 | 109.70 | 106.71 |
| 29 | a | 831 | CLA | C4A-NA-C1A | 6.66 | 109.70 | 106.71 |
| 29 | a | 828 | CLA | C4A-NA-C1A | 6.66 | 109.70 | 106.71 |
| 38 | A | 203 | UIX | O-C1-C3 | 6.65 | 118.38 | 113.38 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|------------|------|-------------|----------|
| 29 | a | 805 | CLA | C4A-NA-C1A | 6.65 | 109.69 | 106.71 |
| 29 | D | 308 | CLA | C4A-NA-C1A | 6.64 | 109.69 | 106.71 |
| 29 | a | 824 | CLA | C4A-NA-C1A | 6.63 | 109.69 | 106.71 |
| 29 | b | 722 | CLA | C4A-NA-C1A | 6.63 | 109.69 | 106.71 |
| 39 | P | 211 | KC1 | CHB-C1B-NB | 6.63 | 130.54 | 124.45 |
| 29 | A | 215 | CLA | C4A-NA-C1A | 6.63 | 109.69 | 106.71 |
| 29 | A | 214 | CLA | C4A-NA-C1A | 6.62 | 109.68 | 106.71 |
| 29 | M | 308 | CLA | C4A-NA-C1A | 6.62 | 109.68 | 106.71 |
| 29 | K | 216 | CLA | C4A-NA-C1A | 6.62 | 109.68 | 106.71 |
| 29 | I | 217 | CLA | C4A-NA-C1A | 6.62 | 109.68 | 106.71 |
| 29 | Q | 310 | CLA | C4A-NA-C1A | 6.62 | 109.68 | 106.71 |
| 29 | D | 311 | CLA | C4A-NA-C1A | 6.61 | 109.68 | 106.71 |
| 29 | J | 308 | CLA | C4A-NA-C1A | 6.60 | 109.67 | 106.71 |
| 29 | N | 311 | CLA | C4A-NA-C1A | 6.60 | 109.67 | 106.71 |
| 39 | H | 314 | KC1 | CHB-C1B-NB | 6.60 | 130.52 | 124.45 |
| 29 | b | 705 | CLA | C4A-NA-C1A | 6.60 | 109.67 | 106.71 |
| 29 | a | 806 | CLA | C4A-NA-C1A | 6.60 | 109.67 | 106.71 |
| 29 | A | 207 | CLA | C4A-NA-C1A | 6.60 | 109.67 | 106.71 |
| 29 | H | 310 | CLA | C4A-NA-C1A | 6.60 | 109.67 | 106.71 |
| 29 | a | 817 | CLA | C4A-NA-C1A | 6.59 | 109.67 | 106.71 |
| 29 | a | 816 | CLA | C4A-NA-C1A | 6.59 | 109.67 | 106.71 |
| 29 | K | 217 | CLA | C4A-NA-C1A | 6.59 | 109.67 | 106.71 |
| 29 | L | 317 | CLA | C4A-NA-C1A | 6.58 | 109.67 | 106.71 |
| 29 | b | 707 | CLA | C4A-NA-C1A | 6.58 | 109.66 | 106.71 |
| 29 | A | 208 | CLA | C4A-NA-C1A | 6.58 | 109.66 | 106.71 |
| 29 | K | 207 | CLA | C4A-NA-C1A | 6.57 | 109.66 | 106.71 |
| 29 | L | 309 | CLA | C4A-NA-C1A | 6.57 | 109.66 | 106.71 |
| 29 | F | 307 | CLA | C4A-NA-C1A | 6.57 | 109.66 | 106.71 |
| 29 | I | 211 | CLA | C4A-NA-C1A | 6.55 | 109.65 | 106.71 |
| 29 | E | 305 | CLA | C4A-NA-C1A | 6.55 | 109.65 | 106.71 |
| 29 | a | 809 | CLA | C4A-NA-C1A | 6.54 | 109.65 | 106.71 |
| 29 | h | 201 | CLA | C4A-NA-C1A | 6.54 | 109.65 | 106.71 |
| 29 | f | 802 | CLA | C4A-NA-C1A | 6.54 | 109.65 | 106.71 |
| 29 | i | 203 | CLA | C4A-NA-C1A | 6.54 | 109.65 | 106.71 |
| 29 | N | 308 | CLA | C4A-NA-C1A | 6.54 | 109.65 | 106.71 |
| 29 | M | 306 | CLA | C4A-NA-C1A | 6.53 | 109.64 | 106.71 |
| 29 | N | 314 | CLA | C4A-NA-C1A | 6.53 | 109.64 | 106.71 |
| 29 | Q | 307 | CLA | C4A-NA-C1A | 6.53 | 109.64 | 106.71 |
| 29 | B | 316 | CLA | C4A-NA-C1A | 6.53 | 109.64 | 106.71 |
| 29 | O | 311 | CLA | C4A-NA-C1A | 6.53 | 109.64 | 106.71 |
| 29 | I | 214 | CLA | C4A-NA-C1A | 6.53 | 109.64 | 106.71 |
| 29 | O | 308 | CLA | C4A-NA-C1A | 6.53 | 109.64 | 106.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | b | 713 | CLA | C4A-NA-C1A | 6.52 | 109.64 | 106.71 |
| 39 | Q | 314 | KC1 | CHB-C1B-NB | 6.52 | 130.45 | 124.45 |
| 29 | a | 823 | CLA | C4A-NA-C1A | 6.52 | 109.64 | 106.71 |
| 29 | P | 212 | CLA | C4A-NA-C1A | 6.52 | 109.64 | 106.71 |
| 29 | M | 310 | CLA | C4A-NA-C1A | 6.51 | 109.64 | 106.71 |
| 32 | i | 204 | BCR | C24-C23-C22 | -6.51 | 116.40 | 126.23 |
| 36 | G | 308 | DD6 | C14-C13-C11 | -6.51 | 115.43 | 125.53 |
| 29 | G | 316 | CLA | C4A-NA-C1A | 6.51 | 109.63 | 106.71 |
| 29 | L | 316 | CLA | C4A-NA-C1A | 6.51 | 109.63 | 106.71 |
| 29 | A | 212 | CLA | C4A-NA-C1A | 6.50 | 109.63 | 106.71 |
| 29 | C | 309 | CLA | C4A-NA-C1A | 6.50 | 109.63 | 106.71 |
| 29 | K | 218 | CLA | C4A-NA-C1A | 6.50 | 109.63 | 106.71 |
| 29 | G | 301 | CLA | C4A-NA-C1A | 6.50 | 109.63 | 106.71 |
| 29 | C | 308 | CLA | C4A-NA-C1A | 6.49 | 109.63 | 106.71 |
| 29 | G | 311 | CLA | C4A-NA-C1A | 6.49 | 109.62 | 106.71 |
| 29 | f | 803 | CLA | C4A-NA-C1A | 6.49 | 109.62 | 106.71 |
| 29 | a | 829 | CLA | C4A-NA-C1A | 6.49 | 109.62 | 106.71 |
| 29 | M | 315 | CLA | C4A-NA-C1A | 6.48 | 109.62 | 106.71 |
| 29 | H | 307 | CLA | C4A-NA-C1A | 6.48 | 109.62 | 106.71 |
| 36 | O | 303 | DD6 | O1-C20-C19 | 6.48 | 118.25 | 113.38 |
| 29 | K | 210 | CLA | C4A-NA-C1A | 6.48 | 109.62 | 106.71 |
| 29 | E | 306 | CLA | C4A-NA-C1A | 6.48 | 109.62 | 106.71 |
| 29 | a | 818 | CLA | C4A-NA-C1A | 6.47 | 109.62 | 106.71 |
| 29 | l | 503 | CLA | C4A-NA-C1A | 6.47 | 109.62 | 106.71 |
| 39 | N | 312 | KC1 | CHC-C4B-NB | 6.47 | 130.40 | 124.45 |
| 36 | K | 221 | DD6 | C9-C10-C11 | -6.47 | 118.07 | 127.31 |
| 36 | K | 221 | DD6 | O1-C20-C19 | 6.46 | 118.24 | 113.38 |
| 29 | T | 316 | CLA | C4A-NA-C1A | 6.46 | 109.61 | 106.71 |
| 29 | a | 813 | CLA | C4A-NA-C1A | 6.46 | 109.61 | 106.71 |
| 29 | i | 202 | CLA | C4A-NA-C1A | 6.46 | 109.61 | 106.71 |
| 29 | b | 710 | CLA | C4A-NA-C1A | 6.46 | 109.61 | 106.71 |
| 29 | N | 316 | CLA | C4A-NA-C1A | 6.45 | 109.61 | 106.71 |
| 29 | D | 309 | CLA | C4A-NA-C1A | 6.45 | 109.61 | 106.71 |
| 36 | I | 205 | DD6 | O1-C20-C21 | 6.45 | 122.78 | 115.06 |
| 29 | D | 312 | CLA | C4A-NA-C1A | 6.45 | 109.61 | 106.71 |
| 29 | O | 316 | CLA | C4A-NA-C1A | 6.45 | 109.61 | 106.71 |
| 29 | Q | 312 | CLA | C4A-NA-C1A | 6.45 | 109.61 | 106.71 |
| 29 | G | 313 | CLA | C4A-NA-C1A | 6.45 | 109.60 | 106.71 |
| 36 | J | 301 | DD6 | C9-C10-C11 | -6.44 | 118.11 | 127.31 |
| 29 | A | 218 | CLA | C4A-NA-C1A | 6.44 | 109.60 | 106.71 |
| 29 | Q | 308 | CLA | C4A-NA-C1A | 6.44 | 109.60 | 106.71 |
| 29 | G | 319 | CLA | C4A-NA-C1A | 6.44 | 109.60 | 106.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | H | 308 | CLA | C4A-NA-C1A | 6.44 | 109.60 | 106.71 |
| 39 | N | 310 | KC1 | CHB-C1B-NB | 6.44 | 130.37 | 124.45 |
| 29 | K | 209 | CLA | C4A-NA-C1A | 6.44 | 109.60 | 106.71 |
| 39 | H | 311 | KC1 | CHC-C4B-NB | 6.44 | 130.37 | 124.45 |
| 29 | l | 508 | CLA | C4A-NA-C1A | 6.43 | 109.60 | 106.71 |
| 32 | m | 103 | BCR | C15-C14-C13 | -6.43 | 118.13 | 127.31 |
| 39 | G | 318 | KC1 | CHC-C4B-NB | 6.43 | 130.36 | 124.45 |
| 29 | P | 210 | CLA | C4A-NA-C1A | 6.43 | 109.60 | 106.71 |
| 39 | M | 312 | KC1 | CHB-C1B-NB | 6.43 | 130.36 | 124.45 |
| 29 | A | 216 | CLA | C4A-NA-C1A | 6.43 | 109.59 | 106.71 |
| 39 | L | 306 | KC1 | CHC-C4B-NB | 6.42 | 130.36 | 124.45 |
| 39 | A | 213 | KC1 | CHB-C1B-NB | 6.41 | 130.35 | 124.45 |
| 29 | A | 209 | CLA | C4A-NA-C1A | 6.41 | 109.59 | 106.71 |
| 29 | T | 308 | CLA | C4A-NA-C1A | 6.41 | 109.59 | 106.71 |
| 38 | O | 306 | UIX | C14-C13-C11 | -6.41 | 118.17 | 127.31 |
| 29 | a | 826 | CLA | C4A-NA-C1A | 6.40 | 109.58 | 106.71 |
| 29 | F | 312 | CLA | C4A-NA-C1A | 6.40 | 109.58 | 106.71 |
| 29 | E | 315 | CLA | C4A-NA-C1A | 6.39 | 109.58 | 106.71 |
| 29 | J | 313 | CLA | C4A-NA-C1A | 6.39 | 109.58 | 106.71 |
| 39 | E | 312 | KC1 | CHB-C1B-NB | 6.39 | 130.33 | 124.45 |
| 29 | G | 312 | CLA | C4A-NA-C1A | 6.39 | 109.58 | 106.71 |
| 29 | E | 313 | CLA | C4A-NA-C1A | 6.39 | 109.58 | 106.71 |
| 39 | H | 309 | KC1 | CHB-C1B-NB | 6.39 | 130.32 | 124.45 |
| 37 | T | 317 | PID | C17-C16-C15 | 6.38 | 136.55 | 123.47 |
| 29 | b | 725 | CLA | C4A-NA-C1A | 6.38 | 109.57 | 106.71 |
| 29 | B | 315 | CLA | C4A-NA-C1A | 6.38 | 109.57 | 106.71 |
| 29 | T | 311 | CLA | C4A-NA-C1A | 6.38 | 109.57 | 106.71 |
| 36 | E | 302 | DD6 | C14-C13-C11 | -6.38 | 115.63 | 125.53 |
| 39 | O | 315 | KC1 | CHB-C1B-NB | 6.38 | 130.32 | 124.45 |
| 29 | b | 714 | CLA | C4A-NA-C1A | 6.37 | 109.57 | 106.71 |
| 29 | a | 821 | CLA | C4A-NA-C1A | 6.37 | 109.57 | 106.71 |
| 29 | b | 716 | CLA | C4A-NA-C1A | 6.36 | 109.56 | 106.71 |
| 29 | L | 308 | CLA | C4A-NA-C1A | 6.36 | 109.56 | 106.71 |
| 39 | A | 205 | KC1 | CHB-C1B-NB | 6.36 | 130.30 | 124.45 |
| 29 | L | 315 | CLA | C4A-NA-C1A | 6.36 | 109.56 | 106.71 |
| 29 | b | 708 | CLA | C4A-NA-C1A | 6.35 | 109.56 | 106.71 |
| 39 | H | 309 | KC1 | CHC-C4B-NB | 6.35 | 130.29 | 124.45 |
| 29 | L | 312 | CLA | C4A-NA-C1A | 6.35 | 109.56 | 106.71 |
| 39 | E | 307 | KC1 | CHC-C4B-NB | 6.35 | 130.29 | 124.45 |
| 29 | l | 509 | CLA | C4A-NA-C1A | 6.35 | 109.56 | 106.71 |
| 29 | f | 805 | CLA | C4A-NA-C1A | 6.34 | 109.56 | 106.71 |
| 29 | b | 712 | CLA | C4A-NA-C1A | 6.34 | 109.56 | 106.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | F | 308 | CLA | C4A-NA-C1A | 6.34 | 109.56 | 106.71 |
| 29 | B | 309 | CLA | C4A-NA-C1A | 6.34 | 109.56 | 106.71 |
| 39 | C | 310 | KC1 | CHB-C1B-NB | 6.34 | 130.28 | 124.45 |
| 29 | b | 731 | CLA | C4A-NA-C1A | 6.33 | 109.55 | 106.71 |
| 29 | B | 306 | CLA | C4A-NA-C1A | 6.33 | 109.55 | 106.71 |
| 39 | B | 313 | KC1 | CHB-C1B-NB | 6.33 | 130.27 | 124.45 |
| 29 | B | 310 | CLA | C4A-NA-C1A | 6.33 | 109.55 | 106.71 |
| 38 | O | 306 | UIX | C6-C1-C | -6.33 | 111.66 | 122.26 |
| 29 | T | 313 | CLA | C4A-NA-C1A | 6.33 | 109.55 | 106.71 |
| 32 | m | 103 | BCR | C7-C8-C9 | -6.33 | 116.68 | 126.23 |
| 29 | a | 830 | CLA | C4A-NA-C1A | 6.32 | 109.55 | 106.71 |
| 29 | b | 720 | CLA | C4A-NA-C1A | 6.32 | 109.55 | 106.71 |
| 29 | D | 313 | CLA | C4A-NA-C1A | 6.32 | 109.55 | 106.71 |
| 29 | b | 715 | CLA | C4A-NA-C1A | 6.32 | 109.55 | 106.71 |
| 39 | T | 312 | KC1 | CHC-C4B-NB | 6.32 | 130.26 | 124.45 |
| 29 | b | 726 | CLA | C4A-NA-C1A | 6.31 | 109.55 | 106.71 |
| 29 | K | 208 | CLA | C4A-NA-C1A | 6.31 | 109.54 | 106.71 |
| 29 | J | 305 | CLA | C4A-NA-C1A | 6.31 | 109.54 | 106.71 |
| 29 | B | 308 | CLA | C4A-NA-C1A | 6.31 | 109.54 | 106.71 |
| 39 | O | 312 | KC1 | O2D-CGD-CBD | 6.31 | 122.47 | 111.27 |
| 39 | C | 312 | KC1 | CHC-C4B-NB | 6.30 | 130.25 | 124.45 |
| 29 | G | 302 | CLA | C4A-NA-C1A | 6.30 | 109.54 | 106.71 |
| 32 | a | 838 | BCR | C16-C17-C18 | -6.30 | 118.32 | 127.31 |
| 29 | b | 718 | CLA | C4A-NA-C1A | 6.29 | 109.54 | 106.71 |
| 39 | F | 309 | KC1 | CHC-C4B-NB | 6.29 | 130.23 | 124.45 |
| 39 | J | 312 | KC1 | CHB-C1B-NB | 6.29 | 130.23 | 124.45 |
| 39 | Q | 309 | KC1 | CHC-C4B-NB | 6.28 | 130.23 | 124.45 |
| 39 | I | 215 | KC1 | CHB-C1B-NB | 6.27 | 130.22 | 124.45 |
| 29 | I | 212 | CLA | C4A-NA-C1A | 6.27 | 109.53 | 106.71 |
| 29 | P | 209 | CLA | C4A-NA-C1A | 6.26 | 109.52 | 106.71 |
| 29 | E | 310 | CLA | C4A-NA-C1A | 6.26 | 109.52 | 106.71 |
| 29 | E | 311 | CLA | C4A-NA-C1A | 6.26 | 109.52 | 106.71 |
| 29 | H | 312 | CLA | C4A-NA-C1A | 6.25 | 109.51 | 106.71 |
| 29 | a | 822 | CLA | C4A-NA-C1A | 6.24 | 109.51 | 106.71 |
| 39 | L | 314 | KC1 | CHB-C1B-NB | 6.24 | 130.19 | 124.45 |
| 29 | I | 213 | CLA | C4A-NA-C1A | 6.24 | 109.51 | 106.71 |
| 39 | L | 306 | KC1 | CHB-C1B-NB | 6.24 | 130.19 | 124.45 |
| 39 | N | 312 | KC1 | CHB-C1B-NB | 6.24 | 130.19 | 124.45 |
| 29 | a | 814 | CLA | C4A-NA-C1A | 6.24 | 109.51 | 106.71 |
| 39 | D | 310 | KC1 | CHB-C1B-NB | 6.24 | 130.19 | 124.45 |
| 29 | b | 723 | CLA | C4A-NA-C1A | 6.23 | 109.51 | 106.71 |
| 29 | K | 211 | CLA | C4A-NA-C1A | 6.23 | 109.51 | 106.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 39 | Q | 309 | KC1 | CHB-C1B-NB | 6.23 | 130.18 | 124.45 |
| 39 | D | 315 | KC1 | CHB-C1B-NB | 6.23 | 130.18 | 124.45 |
| 29 | l | 510 | CLA | C4A-NA-C1A | 6.23 | 109.50 | 106.71 |
| 29 | H | 315 | CLA | C4A-NA-C1A | 6.22 | 109.50 | 106.71 |
| 39 | C | 315 | KC1 | CHB-C1B-NB | 6.22 | 130.17 | 124.45 |
| 39 | P | 216 | KC1 | CHB-C1B-NB | 6.22 | 130.17 | 124.45 |
| 39 | Q | 314 | KC1 | CHC-C4B-NB | 6.22 | 130.17 | 124.45 |
| 38 | F | 305 | UIX | C6-C1-C | -6.22 | 111.84 | 122.26 |
| 39 | F | 309 | KC1 | CHB-C1B-NB | 6.21 | 130.16 | 124.45 |
| 39 | F | 314 | KC1 | CHC-C4B-NB | 6.21 | 130.16 | 124.45 |
| 29 | I | 209 | CLA | C4A-NA-C1A | 6.20 | 109.49 | 106.71 |
| 29 | K | 212 | CLA | C4A-NA-C1A | 6.20 | 109.49 | 106.71 |
| 32 | l | 507 | BCR | C15-C14-C13 | -6.20 | 118.46 | 127.31 |
| 29 | a | 811 | CLA | C4A-NA-C1A | 6.20 | 109.49 | 106.71 |
| 38 | Q | 305 | UIX | C7-C10-C11 | -6.20 | 115.92 | 125.53 |
| 39 | P | 216 | KC1 | CHC-C4B-NB | 6.20 | 130.15 | 124.45 |
| 39 | O | 310 | KC1 | CHB-C1B-NB | 6.19 | 130.15 | 124.45 |
| 29 | G | 317 | CLA | C4A-NA-C1A | 6.19 | 109.49 | 106.71 |
| 39 | N | 310 | KC1 | CHC-C4B-NB | 6.18 | 130.14 | 124.45 |
| 29 | K | 213 | CLA | C4A-NA-C1A | 6.18 | 109.48 | 106.71 |
| 39 | M | 312 | KC1 | CHC-C4B-NB | 6.18 | 130.13 | 124.45 |
| 39 | B | 313 | KC1 | CHC-C4B-NB | 6.18 | 130.13 | 124.45 |
| 39 | D | 310 | KC1 | CHC-C4B-NB | 6.17 | 130.13 | 124.45 |
| 29 | a | 837 | CLA | C4A-NA-C1A | 6.17 | 109.48 | 106.71 |
| 36 | G | 307 | DD6 | C-C1-C2 | -6.17 | 114.28 | 122.92 |
| 39 | A | 205 | KC1 | CHC-C4B-NB | 6.17 | 130.12 | 124.45 |
| 29 | a | 808 | CLA | C4A-NA-C1A | 6.16 | 109.47 | 106.71 |
| 29 | I | 210 | CLA | C4A-NA-C1A | 6.16 | 109.47 | 106.71 |
| 29 | M | 307 | CLA | C4A-NA-C1A | 6.16 | 109.47 | 106.71 |
| 29 | O | 309 | CLA | C4A-NA-C1A | 6.16 | 109.47 | 106.71 |
| 39 | F | 314 | KC1 | CHB-C1B-NB | 6.16 | 130.11 | 124.45 |
| 39 | H | 314 | KC1 | CHC-C4B-NB | 6.14 | 130.10 | 124.45 |
| 39 | M | 305 | KC1 | CHB-C1B-NB | 6.14 | 130.10 | 124.45 |
| 39 | T | 315 | KC1 | CHB-C1B-NB | 6.14 | 130.10 | 124.45 |
| 39 | N | 315 | KC1 | CHB-C1B-NB | 6.14 | 130.09 | 124.45 |
| 39 | C | 310 | KC1 | CHC-C4B-NB | 6.13 | 130.09 | 124.45 |
| 36 | C | 303 | DD6 | C4-C5-C6 | -6.13 | 118.56 | 127.31 |
| 39 | G | 315 | KC1 | CHB-C1B-NB | 6.13 | 130.09 | 124.45 |
| 29 | a | 819 | CLA | C4A-NA-C1A | 6.12 | 109.46 | 106.71 |
| 29 | A | 211 | CLA | C4A-NA-C1A | 6.12 | 109.46 | 106.71 |
| 39 | G | 318 | KC1 | CHB-C1B-NB | 6.12 | 130.08 | 124.45 |
| 39 | Q | 311 | KC1 | CHC-C4B-NB | 6.12 | 130.08 | 124.45 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 36 | E | 302 | DD6 | C4-C5-C6 | -6.12 | 118.58 | 127.31 |
| 39 | O | 315 | KC1 | CHC-C4B-NB | 6.11 | 130.07 | 124.45 |
| 39 | T | 310 | KC1 | CHB-C1B-NB | 6.11 | 130.07 | 124.45 |
| 39 | T | 315 | KC1 | CHC-C4B-NB | 6.11 | 130.07 | 124.45 |
| 37 | P | 206 | PID | C17-C16-C15 | 6.10 | 135.97 | 123.47 |
| 38 | C | 306 | UIX | C14-C13-C11 | -6.10 | 118.61 | 127.31 |
| 29 | b | 717 | CLA | C4A-NA-C1A | 6.10 | 109.45 | 106.71 |
| 39 | O | 310 | KC1 | CHC-C4B-NB | 6.10 | 130.06 | 124.45 |
| 39 | A | 213 | KC1 | CHC-C4B-NB | 6.09 | 130.05 | 124.45 |
| 29 | J | 307 | CLA | C4A-NA-C1A | 6.09 | 109.44 | 106.71 |
| 39 | E | 307 | KC1 | CHB-C1B-NB | 6.09 | 130.05 | 124.45 |
| 38 | P | 207 | UIX | O-C1-C3 | 6.09 | 117.96 | 113.38 |
| 39 | D | 315 | KC1 | CHC-C4B-NB | 6.09 | 130.05 | 124.45 |
| 29 | A | 217 | CLA | C4A-NA-C1A | 6.09 | 109.44 | 106.71 |
| 29 | N | 309 | CLA | C4A-NA-C1A | 6.09 | 109.44 | 106.71 |
| 39 | M | 305 | KC1 | CHC-C4B-NB | 6.08 | 130.04 | 124.45 |
| 39 | I | 215 | KC1 | CHC-C4B-NB | 6.08 | 130.04 | 124.45 |
| 29 | a | 820 | CLA | C4A-NA-C1A | 6.08 | 109.44 | 106.71 |
| 29 | b | 719 | CLA | C4A-NA-C1A | 6.08 | 109.44 | 106.71 |
| 39 | H | 311 | KC1 | CHB-C1B-NB | 6.08 | 130.04 | 124.45 |
| 39 | C | 312 | KC1 | CHB-C1B-NB | 6.07 | 130.03 | 124.45 |
| 29 | L | 311 | CLA | C4A-NA-C1A | 6.07 | 109.43 | 106.71 |
| 39 | C | 315 | KC1 | CHC-C4B-NB | 6.07 | 130.03 | 124.45 |
| 29 | O | 313 | CLA | C4A-NA-C1A | 6.05 | 109.43 | 106.71 |
| 38 | Q | 305 | UIX | O-C1-C6 | 6.05 | 122.31 | 115.06 |
| 29 | J | 310 | CLA | C4A-NA-C1A | 6.05 | 109.42 | 106.71 |
| 39 | P | 213 | KC1 | CHC-C4B-NB | 6.04 | 130.01 | 124.45 |
| 39 | T | 312 | KC1 | CHB-C1B-NB | 6.03 | 130.00 | 124.45 |
| 29 | M | 314 | CLA | C4A-NA-C1A | 6.03 | 109.42 | 106.71 |
| 29 | M | 311 | CLA | C4A-NA-C1A | 6.01 | 109.41 | 106.71 |
| 39 | O | 312 | KC1 | CHC-C4B-NB | 6.00 | 129.97 | 124.45 |
| 29 | b | 724 | CLA | C4A-NA-C1A | 5.99 | 109.40 | 106.71 |
| 38 | T | 306 | UIX | C6-C1-C | -5.99 | 112.22 | 122.26 |
| 36 | G | 308 | DD6 | C9-C10-C11 | -5.99 | 118.76 | 127.31 |
| 29 | K | 214 | CLA | C4A-NA-C1A | 5.99 | 109.40 | 106.71 |
| 29 | E | 314 | CLA | C4A-NA-C1A | 5.99 | 109.40 | 106.71 |
| 39 | L | 314 | KC1 | CHC-C4B-NB | 5.98 | 129.95 | 124.45 |
| 39 | K | 215 | KC1 | CHB-C1B-NB | 5.97 | 129.94 | 124.45 |
| 36 | P | 204 | DD6 | O1-C20-C19 | -5.96 | 108.90 | 113.38 |
| 38 | N | 306 | UIX | C6-C1-C | -5.95 | 112.29 | 122.26 |
| 39 | N | 315 | KC1 | CHC-C4B-NB | 5.94 | 129.92 | 124.45 |
| 29 | b | 704 | CLA | C4A-NA-C1A | 5.94 | 109.38 | 106.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 36 | J | 303 | DD6 | C9-C10-C11 | -5.94 | 118.84 | 127.31 |
| 36 | P | 204 | DD6 | C4-C5-C6 | -5.94 | 118.84 | 127.31 |
| 38 | N | 306 | UIX | O-C1-C3 | 5.93 | 117.84 | 113.38 |
| 39 | O | 312 | KC1 | CHB-C1B-NB | 5.91 | 129.89 | 124.45 |
| 38 | C | 306 | UIX | C6-C1-C | -5.91 | 112.36 | 122.26 |
| 32 | i | 204 | BCR | C20-C21-C22 | -5.90 | 118.89 | 127.31 |
| 36 | D | 301 | DD6 | C3-C2-C1 | -5.90 | 118.89 | 127.31 |
| 37 | F | 302 | PID | C18-C19-C20 | 5.88 | 135.52 | 123.47 |
| 39 | T | 310 | KC1 | CHC-C4B-NB | 5.88 | 129.86 | 124.45 |
| 38 | C | 306 | UIX | O-C1-C3 | 5.88 | 117.80 | 113.38 |
| 29 | l | 505 | CLA | C4A-NA-C1A | 5.88 | 109.35 | 106.71 |
| 39 | P | 213 | KC1 | CHB-C1B-NB | 5.87 | 129.85 | 124.45 |
| 38 | P | 207 | UIX | C14-C13-C11 | -5.86 | 118.94 | 127.31 |
| 29 | A | 210 | CLA | C4A-NA-C1A | 5.86 | 109.34 | 106.71 |
| 39 | G | 315 | KC1 | CHC-C4B-NB | 5.84 | 129.82 | 124.45 |
| 29 | a | 803 | CLA | C4A-NA-C1A | 5.83 | 109.33 | 106.71 |
| 39 | J | 312 | KC1 | CHC-C4B-NB | 5.83 | 129.81 | 124.45 |
| 29 | a | 802 | CLA | C4A-NA-C1A | 5.82 | 109.32 | 106.71 |
| 29 | b | 711 | CLA | C4A-NA-C1A | 5.82 | 109.32 | 106.71 |
| 37 | H | 304 | PID | C17-C16-C15 | 5.81 | 135.38 | 123.47 |
| 29 | b | 703 | CLA | C4A-NA-C1A | 5.81 | 109.32 | 106.71 |
| 32 | m | 103 | BCR | C11-C10-C9 | -5.81 | 119.03 | 127.31 |
| 39 | E | 312 | KC1 | CHC-C4B-NB | 5.80 | 129.78 | 124.45 |
| 38 | T | 306 | UIX | C36-C35-C32 | -5.79 | 119.05 | 127.31 |
| 39 | P | 211 | KC1 | CHC-C4B-NB | 5.77 | 129.76 | 124.45 |
| 36 | O | 303 | DD6 | C4-C5-C6 | -5.76 | 119.09 | 127.31 |
| 36 | G | 306 | DD6 | C9-C10-C11 | -5.75 | 119.10 | 127.31 |
| 36 | T | 303 | DD6 | C9-C10-C11 | -5.75 | 119.11 | 127.31 |
| 32 | b | 728 | BCR | C24-C23-C22 | -5.75 | 117.55 | 126.23 |
| 39 | Q | 311 | KC1 | CHB-C1B-NB | 5.74 | 129.73 | 124.45 |
| 29 | M | 309 | CLA | C4A-NA-C1A | 5.72 | 109.28 | 106.71 |
| 36 | A | 201 | DD6 | C9-C10-C11 | -5.70 | 119.17 | 127.31 |
| 37 | P | 208 | PID | C17-C18-C19 | 5.70 | 137.50 | 124.81 |
| 32 | i | 204 | BCR | C16-C17-C18 | -5.69 | 119.19 | 127.31 |
| 36 | J | 303 | DD6 | C3-C2-C1 | -5.67 | 119.22 | 127.31 |
| 38 | P | 207 | UIX | C6-C1-C | -5.65 | 112.80 | 122.26 |
| 37 | T | 307 | PID | C18-C19-C20 | 5.64 | 135.03 | 123.47 |
| 38 | N | 306 | UIX | C37-C39-C40 | -5.62 | 119.29 | 127.31 |
| 38 | O | 306 | UIX | C37-C39-C40 | -5.62 | 119.29 | 127.31 |
| 38 | O | 306 | UIX | C7-C10-C11 | -5.62 | 116.81 | 125.53 |
| 38 | T | 306 | UIX | C7-C10-C11 | -5.62 | 116.82 | 125.53 |
| 36 | D | 304 | DD6 | C4-C5-C6 | -5.61 | 119.30 | 127.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 37 | E | 301 | PID | C18-C19-C20 | 5.59 | 134.92 | 123.47 |
| 36 | F | 303 | DD6 | C4-C5-C6 | -5.58 | 119.35 | 127.31 |
| 37 | C | 301 | PID | C17-C16-C15 | 5.57 | 134.88 | 123.47 |
| 32 | f | 801 | BCR | C20-C21-C22 | -5.55 | 119.39 | 127.31 |
| 37 | O | 301 | PID | C17-C16-C15 | 5.54 | 134.83 | 123.47 |
| 29 | O | 314 | CLA | C4A-NA-C1A | 5.54 | 109.19 | 106.71 |
| 32 | f | 801 | BCR | C15-C14-C13 | -5.52 | 119.43 | 127.31 |
| 38 | T | 306 | UIX | C37-C39-C40 | -5.52 | 119.44 | 127.31 |
| 37 | H | 305 | PID | C17-C16-C15 | 5.50 | 134.75 | 123.47 |
| 36 | K | 206 | DD6 | C3-C2-C1 | -5.50 | 119.46 | 127.31 |
| 36 | G | 307 | DD6 | C9-C10-C11 | -5.49 | 119.48 | 127.31 |
| 32 | b | 728 | BCR | C20-C21-C22 | -5.48 | 119.49 | 127.31 |
| 38 | F | 305 | UIX | C14-C13-C11 | -5.48 | 119.49 | 127.31 |
| 38 | T | 306 | UIX | C34-C30-C26 | -5.47 | 119.50 | 127.31 |
| 38 | T | 306 | UIX | O-C1-C3 | 5.46 | 117.49 | 113.38 |
| 36 | I | 204 | DD6 | C3-C2-C1 | -5.46 | 119.52 | 127.31 |
| 36 | F | 303 | DD6 | O1-C20-C19 | 5.46 | 117.48 | 113.38 |
| 36 | D | 304 | DD6 | C3-C2-C1 | -5.45 | 119.53 | 127.31 |
| 37 | O | 301 | PID | CM4-C14-C15 | -5.45 | 115.29 | 122.92 |
| 32 | f | 804 | BCR | C15-C14-C13 | -5.45 | 119.53 | 127.31 |
| 36 | G | 307 | DD6 | C4-C5-C6 | -5.45 | 119.53 | 127.31 |
| 38 | Q | 305 | UIX | C34-C30-C26 | -5.43 | 119.55 | 127.31 |
| 36 | M | 303 | DD6 | C9-C10-C11 | -5.42 | 119.57 | 127.31 |
| 38 | C | 306 | UIX | C7-C10-C11 | -5.40 | 117.15 | 125.53 |
| 36 | K | 202 | DD6 | C3-C2-C1 | -5.39 | 119.61 | 127.31 |
| 37 | T | 317 | PID | CM4-C14-C15 | -5.38 | 115.38 | 122.92 |
| 38 | O | 306 | UIX | O-C1-C6 | 5.37 | 121.49 | 115.06 |
| 36 | G | 306 | DD6 | C3-C2-C1 | -5.36 | 119.67 | 127.31 |
| 37 | H | 304 | PID | CM4-C14-C15 | -5.36 | 115.42 | 122.92 |
| 36 | I | 203 | DD6 | C3-C2-C1 | -5.35 | 119.67 | 127.31 |
| 39 | G | 315 | KC1 | O2D-CGD-CBD | 5.34 | 120.76 | 111.27 |
| 36 | K | 203 | DD6 | C9-C10-C11 | -5.29 | 119.75 | 127.31 |
| 32 | i | 204 | BCR | C7-C8-C9 | -5.29 | 118.24 | 126.23 |
| 38 | N | 306 | UIX | C34-C30-C26 | -5.28 | 119.77 | 127.31 |
| 36 | I | 205 | DD6 | C4-C5-C6 | -5.27 | 119.78 | 127.31 |
| 36 | B | 319 | DD6 | C21-C20-C19 | 5.27 | 120.21 | 114.28 |
| 36 | m | 101 | DD6 | C3-C2-C1 | -5.27 | 119.79 | 127.31 |
| 37 | P | 208 | PID | CM4-C14-C15 | -5.26 | 115.56 | 122.92 |
| 37 | P | 205 | PID | C17-C16-C15 | 5.25 | 134.23 | 123.47 |
| 36 | L | 305 | DD6 | C21-C20-C19 | 5.23 | 120.17 | 114.28 |
| 39 | F | 309 | KC1 | O2D-CGD-CBD | 5.23 | 120.55 | 111.27 |
| 36 | B | 305 | DD6 | C3-C2-C1 | -5.22 | 119.86 | 127.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 36 | P | 204 | DD6 | C21-C20-C19 | 5.19 | 120.12 | 114.28 |
| 36 | I | 205 | DD6 | C3-C2-C1 | -5.18 | 119.92 | 127.31 |
| 37 | O | 304 | PID | CM4-C14-C15 | -5.18 | 115.67 | 122.92 |
| 37 | C | 301 | PID | CM4-C14-C15 | -5.18 | 115.67 | 122.92 |
| 32 | a | 834 | BCR | C16-C17-C18 | -5.18 | 119.92 | 127.31 |
| 36 | J | 302 | DD6 | C21-C20-C15 | -5.18 | 113.59 | 122.26 |
| 39 | Q | 311 | KC1 | O2D-CGD-CBD | 5.18 | 120.46 | 111.27 |
| 36 | G | 305 | DD6 | C4-C5-C6 | -5.17 | 119.93 | 127.31 |
| 37 | F | 304 | PID | CM4-C14-C15 | -5.17 | 115.68 | 122.92 |
| 36 | L | 304 | DD6 | C3-C2-C1 | -5.16 | 119.95 | 127.31 |
| 38 | N | 306 | UIX | C14-C13-C11 | -5.15 | 119.96 | 127.31 |
| 36 | A | 204 | DD6 | C21-C20-C19 | 5.12 | 120.04 | 114.28 |
| 36 | M | 301 | DD6 | C3-C2-C1 | -5.12 | 120.00 | 127.31 |
| 36 | M | 303 | DD6 | C4-C5-C6 | -5.12 | 120.01 | 127.31 |
| 36 | M | 303 | DD6 | C3-C2-C1 | -5.11 | 120.02 | 127.31 |
| 39 | C | 310 | KC1 | O2D-CGD-CBD | 5.11 | 120.34 | 111.27 |
| 32 | a | 834 | BCR | C15-C14-C13 | -5.09 | 120.05 | 127.31 |
| 38 | T | 306 | UIX | O-C1-C6 | 5.07 | 121.13 | 115.06 |
| 36 | T | 303 | DD6 | C4-C5-C6 | -5.07 | 120.07 | 127.31 |
| 36 | A | 201 | DD6 | C3-C2-C1 | -5.07 | 120.08 | 127.31 |
| 36 | I | 205 | DD6 | C9-C10-C11 | -5.05 | 120.11 | 127.31 |
| 32 | a | 835 | BCR | C15-C14-C13 | -5.04 | 120.11 | 127.31 |
| 36 | D | 304 | DD6 | C21-C20-C19 | 5.03 | 119.94 | 114.28 |
| 36 | m | 101 | DD6 | C21-C20-C19 | 5.02 | 119.93 | 114.28 |
| 38 | Q | 305 | UIX | C6-C1-C3 | 5.02 | 119.92 | 114.28 |
| 38 | F | 305 | UIX | C36-C35-C32 | -5.01 | 120.15 | 127.31 |
| 36 | K | 206 | DD6 | C21-C20-C19 | 5.01 | 119.91 | 114.28 |
| 36 | K | 221 | DD6 | C4-C5-C6 | -5.01 | 120.17 | 127.31 |
| 36 | K | 221 | DD6 | C3-C2-C1 | -5.00 | 120.18 | 127.31 |
| 37 | N | 304 | PID | CM4-C14-C15 | -4.99 | 115.93 | 122.92 |
| 37 | P | 205 | PID | CM4-C14-C15 | -4.99 | 115.93 | 122.92 |
| 36 | J | 302 | DD6 | C21-C20-C19 | 4.99 | 119.89 | 114.28 |
| 36 | B | 302 | DD6 | C21-C20-C19 | 4.99 | 119.89 | 114.28 |
| 38 | P | 207 | UIX | C34-C30-C26 | -4.99 | 120.19 | 127.31 |
| 36 | A | 201 | DD6 | C21-C20-C19 | 4.98 | 119.88 | 114.28 |
| 36 | h | 202 | DD6 | C4-C5-C6 | -4.97 | 120.21 | 127.31 |
| 37 | O | 304 | PID | C17-C16-C15 | 4.97 | 133.65 | 123.47 |
| 32 | b | 735 | BCR | C24-C23-C22 | -4.97 | 118.73 | 126.23 |
| 36 | I | 202 | DD6 | C3-C2-C1 | -4.97 | 120.22 | 127.31 |
| 36 | B | 301 | DD6 | C21-C20-C19 | 4.97 | 119.87 | 114.28 |
| 37 | Q | 304 | PID | C18-C19-C20 | 4.96 | 133.64 | 123.47 |
| 38 | B | 304 | UIX | O2-C27-C31 | 4.96 | 120.22 | 111.09 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 39 | D | 315 | KC1 | O2D-CGD-CBD | 4.96 | 120.08 | 111.27 |
| 36 | J | 302 | DD6 | C3-C2-C1 | -4.96 | 120.24 | 127.31 |
| 36 | I | 204 | DD6 | C9-C10-C11 | -4.96 | 120.24 | 127.31 |
| 37 | T | 305 | PID | C18-C19-C20 | 4.95 | 133.62 | 123.47 |
| 36 | E | 302 | DD6 | C9-C10-C11 | -4.95 | 120.25 | 127.31 |
| 32 | i | 204 | BCR | C11-C10-C9 | -4.94 | 120.26 | 127.31 |
| 36 | H | 303 | DD6 | C4-C5-C6 | -4.94 | 120.26 | 127.31 |
| 38 | E | 304 | UIX | O2-C27-C31 | 4.93 | 120.17 | 111.09 |
| 37 | H | 301 | PID | CM4-C14-C15 | -4.93 | 116.02 | 122.92 |
| 36 | I | 202 | DD6 | C21-C20-C19 | 4.93 | 119.82 | 114.28 |
| 39 | L | 314 | KC1 | O2D-CGD-CBD | 4.92 | 120.02 | 111.27 |
| 38 | P | 207 | UIX | O-C1-C6 | 4.92 | 120.95 | 115.06 |
| 38 | C | 306 | UIX | C37-C39-C40 | -4.91 | 120.30 | 127.31 |
| 39 | C | 312 | KC1 | O2D-CGD-CBD | 4.91 | 120.00 | 111.27 |
| 39 | K | 215 | KC1 | O2D-CGD-CBD | 4.91 | 120.00 | 111.27 |
| 36 | G | 305 | DD6 | C9-C10-C11 | -4.91 | 120.31 | 127.31 |
| 32 | a | 835 | BCR | C20-C21-C22 | -4.90 | 120.31 | 127.31 |
| 39 | J | 312 | KC1 | O2D-CGD-CBD | 4.90 | 119.97 | 111.27 |
| 36 | A | 202 | DD6 | C21-C20-C19 | 4.90 | 119.79 | 114.28 |
| 39 | M | 305 | KC1 | O2D-CGD-CBD | 4.90 | 119.97 | 111.27 |
| 39 | Q | 314 | KC1 | O2D-CGD-CBD | 4.89 | 119.96 | 111.27 |
| 39 | I | 215 | KC1 | O2D-CGD-CBD | 4.89 | 119.96 | 111.27 |
| 39 | D | 310 | KC1 | O2D-CGD-CBD | 4.89 | 119.95 | 111.27 |
| 39 | P | 216 | KC1 | O2D-CGD-CBD | 4.89 | 119.95 | 111.27 |
| 37 | T | 304 | PID | CM4-C14-C15 | -4.89 | 116.08 | 122.92 |
| 36 | B | 305 | DD6 | C21-C20-C19 | 4.88 | 119.77 | 114.28 |
| 36 | G | 305 | DD6 | C24-C1-C2 | 4.88 | 126.43 | 118.94 |
| 36 | L | 301 | DD6 | C21-C20-C19 | 4.88 | 119.77 | 114.28 |
| 39 | P | 211 | KC1 | O2D-CGD-CBD | 4.88 | 119.93 | 111.27 |
| 32 | a | 835 | BCR | C16-C17-C18 | -4.88 | 120.35 | 127.31 |
| 36 | L | 305 | DD6 | C4-C5-C6 | -4.87 | 120.36 | 127.31 |
| 36 | K | 202 | DD6 | C4-C5-C6 | -4.87 | 120.36 | 127.31 |
| 39 | T | 312 | KC1 | O2D-CGD-CBD | 4.86 | 119.91 | 111.27 |
| 29 | a | 802 | CLA | CMB-C2B-C1B | -4.86 | 120.99 | 128.46 |
| 37 | N | 301 | PID | C17-C16-C15 | 4.86 | 133.43 | 123.47 |
| 29 | b | 718 | CLA | CMB-C2B-C1B | -4.86 | 121.00 | 128.46 |
| 36 | T | 303 | DD6 | C21-C20-C19 | 4.85 | 119.74 | 114.28 |
| 39 | O | 310 | KC1 | O2D-CGD-CBD | 4.85 | 119.89 | 111.27 |
| 38 | F | 305 | UIX | C7-C10-C11 | -4.85 | 118.00 | 125.53 |
| 37 | Q | 303 | PID | CM4-C14-C15 | -4.85 | 116.14 | 122.92 |
| 36 | K | 205 | DD6 | C21-C20-C19 | 4.84 | 119.72 | 114.28 |
| 39 | M | 312 | KC1 | O2D-CGD-CBD | 4.84 | 119.86 | 111.27 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 37 | N | 301 | PID | CM4-C14-C15 | -4.83 | 116.16 | 122.92 |
| 38 | N | 306 | UIX | O-C1-C6 | 4.82 | 120.83 | 115.06 |
| 39 | H | 314 | KC1 | O2D-CGD-CBD | 4.81 | 119.81 | 111.27 |
| 38 | C | 306 | UIX | O-C1-C6 | 4.80 | 120.81 | 115.06 |
| 38 | L | 302 | UIX | C34-C30-C26 | -4.80 | 120.46 | 127.31 |
| 37 | C | 304 | PID | C17-C16-C15 | 4.80 | 133.30 | 123.47 |
| 37 | H | 301 | PID | C17-C16-C15 | 4.80 | 133.30 | 123.47 |
| 36 | K | 204 | DD6 | C9-C10-C11 | -4.78 | 120.48 | 127.31 |
| 36 | K | 203 | DD6 | C21-C20-C19 | 4.78 | 119.65 | 114.28 |
| 36 | D | 304 | DD6 | C9-C10-C11 | -4.78 | 120.50 | 127.31 |
| 36 | F | 303 | DD6 | C3-C2-C1 | -4.77 | 120.50 | 127.31 |
| 39 | Q | 309 | KC1 | O2D-CGD-CBD | 4.77 | 119.75 | 111.27 |
| 37 | C | 304 | PID | CM4-C14-C15 | -4.77 | 116.24 | 122.92 |
| 36 | J | 302 | DD6 | C4-C5-C6 | -4.76 | 120.52 | 127.31 |
| 36 | G | 306 | DD6 | C4-C5-C6 | -4.75 | 120.53 | 127.31 |
| 36 | L | 301 | DD6 | C3-C2-C1 | -4.75 | 120.53 | 127.31 |
| 38 | N | 306 | UIX | C36-C35-C32 | -4.75 | 120.53 | 127.31 |
| 37 | Q | 303 | PID | C17-C16-C15 | 4.75 | 133.20 | 123.47 |
| 32 | b | 728 | BCR | C16-C17-C18 | -4.73 | 120.55 | 127.31 |
| 37 | Q | 306 | PID | CM4-C14-C15 | -4.73 | 116.29 | 122.92 |
| 36 | B | 301 | DD6 | C3-C2-C1 | -4.73 | 120.56 | 127.31 |
| 38 | F | 305 | UIX | C37-C39-C40 | -4.73 | 120.56 | 127.31 |
| 38 | P | 207 | UIX | C37-C39-C40 | -4.73 | 120.56 | 127.31 |
| 39 | A | 213 | KC1 | O2D-CGD-CBD | 4.73 | 119.67 | 111.27 |
| 39 | N | 310 | KC1 | O2D-CGD-CBD | 4.73 | 119.67 | 111.27 |
| 32 | l | 506 | BCR | C28-C27-C26 | -4.73 | 105.63 | 114.08 |
| 36 | D | 301 | DD6 | C14-C13-C11 | 4.73 | 132.87 | 125.53 |
| 36 | L | 304 | DD6 | C9-C10-C11 | -4.72 | 120.57 | 127.31 |
| 39 | N | 312 | KC1 | O2D-CGD-CBD | 4.72 | 119.65 | 111.27 |
| 37 | G | 309 | PID | CM4-C14-C15 | -4.71 | 116.32 | 122.92 |
| 32 | a | 838 | BCR | C15-C14-C13 | -4.71 | 120.59 | 127.31 |
| 36 | I | 203 | DD6 | C9-C10-C11 | -4.71 | 120.59 | 127.31 |
| 36 | I | 203 | DD6 | C21-C20-C19 | 4.71 | 119.58 | 114.28 |
| 36 | G | 306 | DD6 | C21-C20-C19 | 4.71 | 119.58 | 114.28 |
| 36 | B | 303 | DD6 | C21-C20-C19 | 4.70 | 119.57 | 114.28 |
| 38 | Q | 305 | UIX | C37-C39-C40 | -4.70 | 120.60 | 127.31 |
| 32 | b | 729 | BCR | C3-C4-C5 | -4.68 | 105.72 | 114.08 |
| 37 | P | 203 | PID | C18-C19-C20 | 4.68 | 133.05 | 123.47 |
| 36 | N | 303 | DD6 | C21-C20-C19 | 4.68 | 119.54 | 114.28 |
| 39 | G | 318 | KC1 | O2D-CGD-CBD | 4.67 | 119.57 | 111.27 |
| 39 | B | 313 | KC1 | O2D-CGD-CBD | 4.67 | 119.57 | 111.27 |
| 39 | T | 315 | KC1 | O2D-CGD-CBD | 4.67 | 119.57 | 111.27 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 39 | N | 315 | KC1 | O2D-CGD-CBD | 4.67 | 119.57 | 111.27 |
| 35 | B | 318 | DGD | O2G-C1B-C2B | 4.67 | 121.56 | 111.50 |
| 36 | I | 206 | DD6 | C3-C2-C1 | -4.66 | 120.65 | 127.31 |
| 36 | I | 206 | DD6 | C21-C20-C19 | 4.66 | 119.53 | 114.28 |
| 38 | O | 306 | UIX | O-C1-C3 | 4.66 | 116.88 | 113.38 |
| 36 | G | 308 | DD6 | C3-C2-C1 | -4.65 | 120.67 | 127.31 |
| 38 | Q | 305 | UIX | C36-C35-C32 | -4.65 | 120.67 | 127.31 |
| 36 | K | 202 | DD6 | C15-C14-C13 | -4.65 | 116.17 | 125.99 |
| 29 | O | 313 | CLA | CMB-C2B-C1B | -4.64 | 121.33 | 128.46 |
| 38 | A | 203 | UIX | O-C1-C6 | 4.64 | 120.62 | 115.06 |
| 35 | b | 733 | DGD | O2G-C1B-C2B | 4.64 | 121.50 | 111.50 |
| 32 | f | 804 | BCR | C11-C10-C9 | -4.64 | 120.69 | 127.31 |
| 36 | B | 302 | DD6 | C4-C5-C6 | -4.64 | 120.69 | 127.31 |
| 38 | O | 306 | UIX | C34-C30-C26 | -4.64 | 120.69 | 127.31 |
| 38 | T | 306 | UIX | O2-C27-C31 | 4.63 | 119.61 | 111.09 |
| 37 | D | 307 | PID | C17-C16-C15 | 4.62 | 132.95 | 123.47 |
| 37 | T | 301 | PID | CM4-C14-C15 | -4.62 | 116.45 | 122.92 |
| 36 | O | 303 | DD6 | O1-C20-C21 | 4.62 | 120.59 | 115.06 |
| 36 | Q | 302 | DD6 | C21-C20-C19 | 4.62 | 119.47 | 114.28 |
| 32 | b | 728 | BCR | C33-C5-C6 | -4.61 | 119.35 | 124.53 |
| 37 | N | 304 | PID | C17-C16-C15 | 4.61 | 132.93 | 123.47 |
| 36 | Q | 302 | DD6 | C4-C5-C6 | -4.61 | 120.73 | 127.31 |
| 38 | P | 207 | UIX | C7-C10-C11 | -4.60 | 118.39 | 125.53 |
| 37 | G | 303 | PID | C17-C16-C15 | 4.60 | 132.91 | 123.47 |
| 37 | F | 302 | PID | CM4-C14-C15 | -4.60 | 116.48 | 122.92 |
| 37 | D | 307 | PID | C18-C19-C20 | 4.60 | 132.90 | 123.47 |
| 32 | m | 103 | BCR | C16-C17-C18 | -4.60 | 120.75 | 127.31 |
| 39 | L | 306 | KC1 | O2D-CGD-CBD | 4.59 | 119.42 | 111.27 |
| 36 | M | 304 | DD6 | C3-C2-C1 | -4.58 | 120.77 | 127.31 |
| 39 | E | 307 | KC1 | O2D-CGD-CBD | 4.58 | 119.41 | 111.27 |
| 36 | I | 206 | DD6 | O1-C20-C19 | -4.58 | 109.94 | 113.38 |
| 37 | O | 305 | PID | CM4-C14-C15 | -4.58 | 116.51 | 122.92 |
| 38 | O | 306 | UIX | O2-C27-C31 | 4.58 | 119.51 | 111.09 |
| 37 | E | 301 | PID | C16-C15-C14 | 4.58 | 133.84 | 127.31 |
| 36 | I | 203 | DD6 | C4-C5-C6 | -4.57 | 120.78 | 127.31 |
| 38 | O | 306 | UIX | C6-C1-C3 | 4.57 | 119.42 | 114.28 |
| 36 | E | 303 | DD6 | C21-C20-C19 | 4.57 | 119.42 | 114.28 |
| 36 | D | 301 | DD6 | O1-C20-C21 | -4.56 | 109.59 | 115.06 |
| 38 | C | 306 | UIX | C34-C30-C26 | -4.56 | 120.80 | 127.31 |
| 38 | J | 304 | UIX | C14-C23-C26 | -4.56 | 113.61 | 126.42 |
| 37 | T | 301 | PID | C18-C19-C20 | 4.56 | 132.81 | 123.47 |
| 38 | C | 306 | UIX | O2-C27-C31 | 4.55 | 119.46 | 111.09 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 37 | D | 307 | PID | CM4-C14-C15 | -4.55 | 116.55 | 122.92 |
| 36 | A | 201 | DD6 | C14-C13-C11 | -4.55 | 118.48 | 125.53 |
| 37 | G | 310 | PID | C18-C19-C20 | 4.54 | 132.78 | 123.47 |
| 39 | C | 315 | KC1 | O2D-CGD-CBD | 4.53 | 119.32 | 111.27 |
| 37 | C | 302 | PID | CM4-C14-C15 | -4.53 | 116.58 | 122.92 |
| 36 | h | 202 | DD6 | C3-C2-C1 | -4.52 | 120.86 | 127.31 |
| 38 | J | 304 | UIX | C34-C30-C26 | -4.52 | 120.86 | 127.31 |
| 37 | O | 305 | PID | C6-C7-C8 | 4.52 | 135.54 | 125.99 |
| 37 | H | 305 | PID | C6-C7-C8 | 4.52 | 135.54 | 125.99 |
| 37 | Q | 301 | PID | CM4-C14-C15 | -4.51 | 116.60 | 122.92 |
| 39 | F | 314 | KC1 | O2D-CGD-CBD | 4.51 | 119.29 | 111.27 |
| 39 | T | 310 | KC1 | O2D-CGD-CBD | 4.51 | 119.29 | 111.27 |
| 38 | E | 304 | UIX | C34-C30-C26 | -4.51 | 120.88 | 127.31 |
| 36 | I | 203 | DD6 | C37-C36-C31 | -4.49 | 118.24 | 124.35 |
| 39 | A | 205 | KC1 | O2D-CGD-CBD | 4.49 | 119.25 | 111.27 |
| 37 | H | 305 | PID | CM4-C14-C15 | -4.49 | 116.63 | 122.92 |
| 36 | O | 303 | DD6 | C9-C10-C11 | -4.49 | 120.90 | 127.31 |
| 29 | I | 211 | CLA | CMB-C2B-C1B | -4.48 | 121.57 | 128.46 |
| 38 | A | 203 | UIX | O2-C27-C31 | 4.48 | 119.33 | 111.09 |
| 37 | Q | 306 | PID | C17-C16-C15 | 4.48 | 132.64 | 123.47 |
| 36 | H | 303 | DD6 | C21-C20-C19 | 4.47 | 119.31 | 114.28 |
| 29 | a | 812 | CLA | CMB-C2B-C1B | -4.47 | 121.59 | 128.46 |
| 38 | Q | 305 | UIX | O2-C27-C31 | 4.47 | 119.31 | 111.09 |
| 39 | H | 309 | KC1 | O2D-CGD-CBD | 4.47 | 119.20 | 111.27 |
| 36 | C | 303 | DD6 | C9-C10-C11 | -4.47 | 120.94 | 127.31 |
| 36 | B | 301 | DD6 | O1-C20-C19 | -4.46 | 110.03 | 113.38 |
| 32 | f | 801 | BCR | C24-C23-C22 | -4.46 | 119.49 | 126.23 |
| 37 | F | 306 | PID | CM4-C14-C15 | -4.46 | 116.67 | 122.92 |
| 36 | F | 301 | DD6 | O1-C20-C19 | 4.45 | 116.72 | 113.38 |
| 37 | D | 302 | PID | C18-C19-C20 | 4.42 | 132.53 | 123.47 |
| 37 | D | 305 | PID | CM4-C14-C15 | -4.42 | 116.73 | 122.92 |
| 37 | N | 302 | PID | C18-C19-C20 | 4.42 | 132.53 | 123.47 |
| 37 | C | 302 | PID | C18-C19-C20 | 4.42 | 132.52 | 123.47 |
| 38 | P | 207 | UIX | O2-C27-C31 | 4.42 | 119.21 | 111.09 |
| 38 | N | 306 | UIX | O2-C27-C31 | 4.41 | 119.21 | 111.09 |
| 36 | J | 303 | DD6 | C4-C5-C6 | -4.41 | 121.02 | 127.31 |
| 38 | N | 306 | UIX | C6-C1-C3 | 4.41 | 119.24 | 114.28 |
| 36 | K | 205 | DD6 | C37-C36-C31 | -4.41 | 118.36 | 124.35 |
| 29 | J | 310 | CLA | CMB-C2B-C1B | -4.41 | 121.69 | 128.46 |
| 32 | b | 735 | BCR | C16-C17-C18 | -4.40 | 121.02 | 127.31 |
| 36 | G | 305 | DD6 | C-C1-C2 | -4.39 | 116.77 | 122.92 |
| 36 | L | 301 | DD6 | C4-C5-C6 | -4.39 | 121.05 | 127.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 37 | P | 202 | PID | CM4-C14-C15 | -4.38 | 116.78 | 122.92 |
| 37 | O | 307 | PID | CM4-C14-C15 | -4.38 | 116.79 | 122.92 |
| 36 | D | 301 | DD6 | C21-C20-C19 | 4.37 | 119.20 | 114.28 |
| 29 | A | 208 | CLA | CMB-C2B-C1B | -4.37 | 121.75 | 128.46 |
| 32 | a | 835 | BCR | C24-C23-C22 | -4.37 | 119.63 | 126.23 |
| 37 | P | 208 | PID | C12-O4-C10 | 4.37 | 109.92 | 107.65 |
| 37 | H | 306 | PID | CM4-C14-C15 | -4.37 | 116.81 | 122.92 |
| 37 | C | 305 | PID | C16-C15-C14 | 4.36 | 133.54 | 127.31 |
| 37 | G | 309 | PID | C17-C16-C15 | 4.36 | 132.41 | 123.47 |
| 36 | K | 204 | DD6 | C3-C2-C1 | -4.36 | 121.09 | 127.31 |
| 38 | L | 302 | UIX | O2-C27-C31 | 4.36 | 119.11 | 111.09 |
| 37 | P | 206 | PID | CM4-C14-C15 | -4.36 | 116.82 | 122.92 |
| 36 | L | 305 | DD6 | C3-C2-C1 | -4.35 | 121.10 | 127.31 |
| 36 | I | 204 | DD6 | C4-C5-C6 | -4.35 | 121.10 | 127.31 |
| 36 | L | 303 | DD6 | C21-C20-C19 | 4.35 | 119.17 | 114.28 |
| 35 | j | 105 | DGD | O2G-C1B-C2B | 4.34 | 120.85 | 111.50 |
| 37 | O | 302 | PID | C18-C19-C20 | 4.33 | 132.35 | 123.47 |
| 29 | b | 723 | CLA | CMB-C2B-C1B | -4.33 | 121.81 | 128.46 |
| 36 | L | 304 | DD6 | C21-C20-C19 | 4.33 | 119.15 | 114.28 |
| 36 | P | 204 | DD6 | C15-C14-C13 | -4.33 | 116.85 | 125.99 |
| 36 | M | 302 | DD6 | C9-C10-C11 | -4.33 | 121.14 | 127.31 |
| 37 | T | 301 | PID | C17-C16-C15 | 4.33 | 132.34 | 123.47 |
| 36 | B | 302 | DD6 | C3-C2-C1 | -4.32 | 121.14 | 127.31 |
| 38 | F | 305 | UIX | O2-C27-C31 | 4.32 | 119.03 | 111.09 |
| 36 | L | 304 | DD6 | C15-C14-C13 | -4.31 | 116.87 | 125.99 |
| 32 | m | 103 | BCR | C20-C21-C22 | -4.31 | 121.16 | 127.31 |
| 29 | h | 201 | CLA | CMB-C2B-C1B | -4.31 | 121.84 | 128.46 |
| 37 | H | 306 | PID | C18-C19-C20 | 4.31 | 132.30 | 123.47 |
| 37 | N | 305 | PID | CM4-C14-C15 | -4.30 | 116.90 | 122.92 |
| 37 | C | 307 | PID | CM4-C14-C15 | -4.30 | 116.90 | 122.92 |
| 29 | K | 210 | CLA | CMB-C2B-C1B | -4.30 | 121.86 | 128.46 |
| 32 | l | 506 | BCR | C3-C4-C5 | -4.30 | 106.41 | 114.08 |
| 37 | T | 307 | PID | CM4-C14-C15 | -4.29 | 116.91 | 122.92 |
| 37 | T | 305 | PID | CM4-C14-C15 | -4.29 | 116.91 | 122.92 |
| 39 | P | 213 | KC1 | O2D-CGD-CBD | 4.29 | 118.89 | 111.27 |
| 29 | T | 314 | CLA | CMB-C2B-C1B | -4.28 | 121.89 | 128.46 |
| 37 | D | 302 | PID | CM4-C14-C15 | -4.28 | 116.93 | 122.92 |
| 37 | P | 208 | PID | C19-C20-C21 | 4.27 | 133.40 | 127.31 |
| 29 | a | 825 | CLA | CMB-C2B-C1B | -4.27 | 121.91 | 128.46 |
| 36 | J | 301 | DD6 | C4-C5-C6 | -4.27 | 121.22 | 127.31 |
| 29 | a | 823 | CLA | CMB-C2B-C1B | -4.26 | 121.92 | 128.46 |
| 36 | L | 301 | DD6 | C9-C10-C11 | -4.26 | 121.23 | 127.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 39 | O | 315 | KC1 | O2D-CGD-CBD | 4.25 | 118.82 | 111.27 |
| 35 | j | 106 | DGD | O2G-C1B-C2B | 4.25 | 120.66 | 111.50 |
| 36 | H | 303 | DD6 | C3-C2-C1 | -4.24 | 121.26 | 127.31 |
| 36 | B | 319 | DD6 | C14-C13-C11 | -4.24 | 118.95 | 125.53 |
| 37 | Q | 301 | PID | C18-C19-C20 | 4.24 | 132.15 | 123.47 |
| 36 | A | 204 | DD6 | C3-C2-C1 | -4.24 | 121.26 | 127.31 |
| 29 | H | 312 | CLA | CMB-C2B-C1B | -4.23 | 121.96 | 128.46 |
| 38 | E | 304 | UIX | O-C1-C6 | 4.23 | 120.12 | 115.06 |
| 37 | Q | 304 | PID | CM4-C14-C15 | -4.23 | 117.00 | 122.92 |
| 36 | B | 319 | DD6 | C20-C19-C18 | -4.23 | 104.39 | 112.75 |
| 29 | b | 719 | CLA | CMB-C2B-C1B | -4.22 | 121.98 | 128.46 |
| 36 | h | 202 | DD6 | C37-C36-C31 | -4.22 | 118.61 | 124.35 |
| 37 | T | 302 | PID | C18-C19-C20 | 4.22 | 132.11 | 123.47 |
| 38 | A | 203 | UIX | C6-C1-C3 | 4.22 | 119.02 | 114.28 |
| 36 | P | 204 | DD6 | C3-C2-C1 | -4.21 | 121.30 | 127.31 |
| 36 | B | 319 | DD6 | C37-C36-C31 | -4.21 | 118.63 | 124.35 |
| 29 | E | 311 | CLA | CMB-C2B-C1B | -4.21 | 122.00 | 128.46 |
| 38 | O | 306 | UIX | C36-C35-C32 | -4.21 | 121.31 | 127.31 |
| 39 | E | 312 | KC1 | O2D-CGD-CBD | 4.20 | 118.74 | 111.27 |
| 37 | H | 304 | PID | C12-O4-C10 | 4.20 | 109.84 | 107.65 |
| 36 | B | 303 | DD6 | C3-C2-C1 | -4.20 | 121.32 | 127.31 |
| 36 | K | 202 | DD6 | C37-C36-C31 | -4.20 | 118.64 | 124.35 |
| 36 | G | 306 | DD6 | O1-C20-C19 | -4.20 | 110.23 | 113.38 |
| 32 | i | 204 | BCR | C15-C14-C13 | -4.20 | 121.32 | 127.31 |
| 32 | l | 507 | BCR | C3-C4-C5 | -4.19 | 106.59 | 114.08 |
| 36 | M | 304 | DD6 | C21-C20-C19 | 4.19 | 119.00 | 114.28 |
| 32 | a | 834 | BCR | C11-C10-C9 | -4.19 | 121.33 | 127.31 |
| 37 | N | 307 | PID | CM4-C14-C15 | -4.18 | 117.06 | 122.92 |
| 37 | O | 301 | PID | C12-O4-C10 | 4.18 | 109.83 | 107.65 |
| 37 | T | 304 | PID | C17-C16-C15 | 4.18 | 132.04 | 123.47 |
| 29 | B | 315 | CLA | CMB-C2B-C1B | -4.18 | 122.04 | 128.46 |
| 37 | H | 302 | PID | C18-C19-C20 | 4.17 | 132.02 | 123.47 |
| 38 | B | 304 | UIX | O-C1-C6 | 4.17 | 120.05 | 115.06 |
| 38 | N | 306 | UIX | C7-C10-C11 | -4.17 | 119.06 | 125.53 |
| 29 | a | 803 | CLA | CMB-C2B-C1B | -4.16 | 122.07 | 128.46 |
| 29 | G | 301 | CLA | CMB-C2B-C1B | -4.16 | 122.07 | 128.46 |
| 37 | C | 307 | PID | C18-C19-C20 | 4.15 | 131.98 | 123.47 |
| 36 | K | 203 | DD6 | C37-C36-C31 | -4.15 | 118.71 | 124.35 |
| 37 | G | 310 | PID | CM4-C14-C15 | -4.15 | 117.11 | 122.92 |
| 29 | J | 308 | CLA | CMB-C2B-C1B | -4.14 | 122.10 | 128.46 |
| 29 | I | 210 | CLA | CMB-C2B-C1B | -4.14 | 122.10 | 128.46 |
| 29 | B | 309 | CLA | CMB-C2B-C1B | -4.14 | 122.10 | 128.46 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | E | 310 | CLA | CMB-C2B-C1B | -4.14 | 122.11 | 128.46 |
| 36 | J | 302 | DD6 | C15-C14-C13 | -4.13 | 117.25 | 125.99 |
| 39 | H | 311 | KC1 | O2D-CGD-CBD | 4.13 | 118.61 | 111.27 |
| 36 | C | 303 | DD6 | C3-C2-C1 | -4.13 | 121.42 | 127.31 |
| 36 | m | 101 | DD6 | O1-C20-C19 | -4.13 | 110.28 | 113.38 |
| 29 | L | 309 | CLA | CMB-C2B-C1B | -4.13 | 122.12 | 128.46 |
| 29 | M | 309 | CLA | CMB-C2B-C1B | -4.12 | 122.13 | 128.46 |
| 35 | h | 203 | DGD | O2G-C1B-C2B | 4.12 | 120.39 | 111.50 |
| 37 | C | 301 | PID | C12-O4-C10 | 4.12 | 109.79 | 107.65 |
| 37 | D | 305 | PID | C17-C16-C15 | 4.12 | 131.91 | 123.47 |
| 36 | E | 302 | DD6 | C3-C2-C1 | -4.12 | 121.44 | 127.31 |
| 29 | O | 314 | CLA | CMB-C2B-C1B | -4.11 | 122.14 | 128.46 |
| 38 | P | 207 | UIX | C16-C20-C15 | 4.11 | 123.77 | 119.70 |
| 29 | b | 708 | CLA | CMB-C2B-C1B | -4.11 | 122.15 | 128.46 |
| 29 | b | 722 | CLA | CMB-C2B-C1B | -4.10 | 122.16 | 128.46 |
| 29 | D | 314 | CLA | CMB-C2B-C1B | -4.10 | 122.16 | 128.46 |
| 37 | P | 206 | PID | C18-C19-C20 | 4.10 | 131.88 | 123.47 |
| 32 | l | 506 | BCR | C7-C8-C9 | -4.10 | 120.05 | 126.23 |
| 39 | O | 312 | KC1 | C3D-CAD-CBD | -4.09 | 102.21 | 107.61 |
| 37 | C | 305 | PID | C17-C18-C19 | 4.09 | 133.92 | 124.81 |
| 29 | G | 313 | CLA | CMB-C2B-C1B | -4.09 | 122.18 | 128.46 |
| 29 | A | 218 | CLA | CMB-C2B-C1B | -4.08 | 122.19 | 128.46 |
| 29 | a | 831 | CLA | CMB-C2B-C1B | -4.08 | 122.19 | 128.46 |
| 36 | A | 202 | DD6 | C3-C2-C1 | -4.08 | 121.49 | 127.31 |
| 36 | K | 205 | DD6 | C41-C32-C31 | -4.08 | 103.99 | 110.47 |
| 36 | L | 304 | DD6 | C37-C36-C31 | -4.08 | 118.81 | 124.35 |
| 29 | E | 314 | CLA | CMB-C2B-C1B | -4.07 | 122.21 | 128.46 |
| 29 | a | 830 | CLA | CMB-C2B-C1B | -4.06 | 122.22 | 128.46 |
| 35 | m | 102 | DGD | O2G-C1B-C2B | 4.06 | 120.25 | 111.50 |
| 36 | M | 301 | DD6 | C21-C20-C19 | 4.06 | 118.84 | 114.28 |
| 29 | a | 829 | CLA | CMB-C2B-C1B | -4.05 | 122.24 | 128.46 |
| 29 | A | 211 | CLA | CMB-C2B-C1B | -4.05 | 122.24 | 128.46 |
| 32 | a | 835 | BCR | C11-C10-C9 | -4.05 | 121.53 | 127.31 |
| 36 | G | 307 | DD6 | O1-C20-C15 | -4.04 | 55.61 | 58.96 |
| 29 | b | 716 | CLA | CMB-C2B-C1B | -4.04 | 122.25 | 128.46 |
| 36 | B | 319 | DD6 | C9-C10-C11 | -4.04 | 121.55 | 127.31 |
| 38 | L | 302 | UIX | C-C7-C10 | -4.04 | 117.45 | 125.99 |
| 29 | N | 313 | CLA | CMB-C2B-C1B | -4.04 | 122.26 | 128.46 |
| 36 | K | 221 | DD6 | C14-C13-C11 | -4.03 | 119.27 | 125.53 |
| 36 | D | 304 | DD6 | C14-C13-C11 | -4.03 | 119.27 | 125.53 |
| 36 | K | 202 | DD6 | C9-C10-C11 | -4.03 | 121.56 | 127.31 |
| 29 | b | 703 | CLA | CMB-C2B-C1B | -4.03 | 122.28 | 128.46 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 36 | J | 302 | DD6 | C9-C10-C11 | -4.02 | 121.57 | 127.31 |
| 32 | b | 735 | BCR | C28-C27-C26 | -4.02 | 106.89 | 114.08 |
| 36 | H | 303 | DD6 | C9-C10-C11 | -4.02 | 121.57 | 127.31 |
| 37 | j | 101 | PID | C18-C19-C20 | 4.02 | 131.71 | 123.47 |
| 36 | G | 306 | DD6 | C37-C36-C31 | -4.01 | 118.89 | 124.35 |
| 29 | B | 310 | CLA | CMB-C2B-C1B | -4.01 | 122.30 | 128.46 |
| 29 | B | 312 | CLA | CMB-C2B-C1B | -4.01 | 122.30 | 128.46 |
| 37 | T | 302 | PID | CM4-C14-C15 | -4.01 | 117.31 | 122.92 |
| 32 | f | 804 | BCR | C7-C8-C9 | -4.01 | 120.17 | 126.23 |
| 36 | G | 307 | DD6 | C24-C1-C2 | 4.01 | 125.09 | 118.94 |
| 36 | P | 204 | DD6 | C9-C10-C11 | -4.01 | 121.59 | 127.31 |
| 29 | G | 317 | CLA | CMB-C2B-C1B | -4.01 | 122.31 | 128.46 |
| 36 | Q | 302 | DD6 | C9-C10-C11 | -4.00 | 121.60 | 127.31 |
| 29 | a | 815 | CLA | CMB-C2B-C1B | -3.99 | 122.33 | 128.46 |
| 36 | M | 303 | DD6 | C14-C13-C11 | -3.99 | 119.34 | 125.53 |
| 29 | A | 217 | CLA | CMB-C2B-C1B | -3.99 | 122.33 | 128.46 |
| 36 | h | 202 | DD6 | C20-C19-C18 | -3.99 | 104.86 | 112.75 |
| 38 | B | 304 | UIX | C37-C39-C40 | -3.99 | 121.62 | 127.31 |
| 36 | K | 203 | DD6 | C14-C13-C11 | -3.98 | 119.35 | 125.53 |
| 36 | K | 206 | DD6 | C9-C10-C11 | -3.98 | 121.63 | 127.31 |
| 37 | h | 204 | PID | CM4-C14-C15 | -3.98 | 117.35 | 122.92 |
| 36 | I | 204 | DD6 | C37-C36-C31 | -3.98 | 118.94 | 124.35 |
| 29 | N | 314 | CLA | CMB-C2B-C1B | -3.98 | 122.35 | 128.46 |
| 29 | M | 310 | CLA | CMB-C2B-C1B | -3.98 | 122.35 | 128.46 |
| 29 | a | 802 | CLA | CMB-C2B-C3B | 3.97 | 132.11 | 124.68 |
| 37 | N | 305 | PID | C17-C16-C15 | 3.97 | 131.61 | 123.47 |
| 37 | F | 306 | PID | C18-C19-C20 | 3.97 | 131.60 | 123.47 |
| 36 | J | 302 | DD6 | O1-C20-C21 | 3.97 | 119.81 | 115.06 |
| 37 | F | 304 | PID | O1-C1-CM1 | 3.97 | 119.81 | 115.06 |
| 36 | M | 303 | DD6 | C37-C36-C31 | -3.96 | 118.96 | 124.35 |
| 36 | F | 303 | DD6 | C37-C36-C31 | -3.96 | 118.97 | 124.35 |
| 29 | b | 701 | CLA | CMB-C2B-C1B | -3.96 | 122.38 | 128.46 |
| 37 | N | 301 | PID | C12-O4-C10 | 3.96 | 109.71 | 107.65 |
| 37 | C | 305 | PID | C6-C7-C8 | 3.96 | 134.36 | 125.99 |
| 36 | L | 303 | DD6 | C37-C36-C31 | -3.95 | 118.98 | 124.35 |
| 29 | B | 308 | CLA | CMB-C2B-C1B | -3.95 | 122.39 | 128.46 |
| 32 | b | 729 | BCR | C16-C17-C18 | -3.95 | 121.67 | 127.31 |
| 29 | K | 211 | CLA | CMB-C2B-C1B | -3.95 | 122.39 | 128.46 |
| 29 | K | 216 | CLA | CMB-C2B-C1B | -3.95 | 122.39 | 128.46 |
| 36 | J | 302 | DD6 | C37-C36-C31 | -3.95 | 118.98 | 124.35 |
| 36 | M | 304 | DD6 | C15-C14-C13 | -3.95 | 117.65 | 125.99 |
| 29 | Q | 308 | CLA | CMB-C2B-C1B | -3.94 | 122.40 | 128.46 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 36 | B | 319 | DD6 | O1-C20-C19 | -3.94 | 110.42 | 113.38 |
| 36 | G | 305 | DD6 | C9-C8-C6 | -3.94 | 115.34 | 126.42 |
| 29 | E | 313 | CLA | CMB-C2B-C1B | -3.94 | 122.41 | 128.46 |
| 29 | i | 201 | CLA | CMB-C2B-C1B | -3.94 | 122.41 | 128.46 |
| 29 | b | 711 | CLA | CMB-C2B-C1B | -3.94 | 122.41 | 128.46 |
| 36 | G | 308 | DD6 | C21-C20-C19 | 3.94 | 118.71 | 114.28 |
| 29 | A | 207 | CLA | CMB-C2B-C1B | -3.94 | 122.41 | 128.46 |
| 29 | M | 314 | CLA | CMB-C2B-C1B | -3.93 | 122.42 | 128.46 |
| 36 | H | 303 | DD6 | O1-C20-C19 | -3.93 | 110.43 | 113.38 |
| 37 | F | 304 | PID | C18-C19-C20 | 3.93 | 131.53 | 123.47 |
| 38 | E | 304 | UIX | C-C7-C10 | -3.93 | 117.68 | 125.99 |
| 29 | G | 302 | CLA | CMB-C2B-C1B | -3.93 | 122.42 | 128.46 |
| 29 | a | 807 | CLA | CMB-C2B-C1B | -3.92 | 122.43 | 128.46 |
| 37 | P | 205 | PID | C12-O4-C10 | 3.92 | 109.69 | 107.65 |
| 36 | M | 302 | DD6 | C4-C5-C6 | -3.92 | 121.71 | 127.31 |
| 32 | b | 735 | BCR | C20-C21-C22 | -3.92 | 121.71 | 127.31 |
| 32 | l | 507 | BCR | C11-C10-C9 | -3.92 | 121.71 | 127.31 |
| 36 | m | 101 | DD6 | C15-C14-C13 | -3.91 | 117.72 | 125.99 |
| 29 | a | 806 | CLA | CMB-C2B-C1B | -3.91 | 122.45 | 128.46 |
| 32 | f | 801 | BCR | C16-C17-C18 | -3.91 | 121.72 | 127.31 |
| 37 | Q | 306 | PID | C12-O4-C10 | 3.91 | 109.69 | 107.65 |
| 37 | P | 206 | PID | C12-O4-C10 | 3.91 | 109.69 | 107.65 |
| 29 | i | 203 | CLA | CMB-C2B-C1B | -3.91 | 122.46 | 128.46 |
| 38 | L | 302 | UIX | O-C1-C6 | 3.91 | 119.74 | 115.06 |
| 29 | J | 309 | CLA | CMB-C2B-C1B | -3.91 | 122.46 | 128.46 |
| 36 | I | 204 | DD6 | O1-C20-C21 | 3.91 | 119.73 | 115.06 |
| 36 | C | 303 | DD6 | C37-C36-C31 | -3.90 | 119.05 | 124.35 |
| 36 | I | 203 | DD6 | C14-C13-C11 | -3.90 | 119.48 | 125.53 |
| 29 | G | 319 | CLA | CMB-C2B-C1B | -3.90 | 122.48 | 128.46 |
| 29 | A | 212 | CLA | CMB-C2B-C1B | -3.90 | 122.48 | 128.46 |
| 36 | M | 302 | DD6 | C37-C36-C31 | -3.89 | 119.06 | 124.35 |
| 29 | O | 311 | CLA | CMB-C2B-C1B | -3.89 | 122.48 | 128.46 |
| 36 | G | 305 | DD6 | C37-C36-C31 | -3.89 | 119.06 | 124.35 |
| 37 | F | 302 | PID | C12-O4-C10 | 3.89 | 109.68 | 107.65 |
| 35 | G | 320 | DGD | O2G-C1B-C2B | 3.89 | 119.89 | 111.50 |
| 32 | i | 204 | BCR | C3-C4-C5 | -3.89 | 107.13 | 114.08 |
| 36 | B | 302 | DD6 | C37-C36-C31 | -3.89 | 119.06 | 124.35 |
| 37 | D | 307 | PID | C12-O4-C10 | 3.89 | 109.67 | 107.65 |
| 29 | a | 809 | CLA | CMB-C2B-C1B | -3.89 | 122.49 | 128.46 |
| 36 | G | 307 | DD6 | O1-C20-C19 | 3.88 | 116.30 | 113.38 |
| 32 | a | 835 | BCR | C33-C5-C6 | -3.88 | 120.17 | 124.53 |
| 29 | M | 307 | CLA | CMB-C2B-C1B | -3.88 | 122.50 | 128.46 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | b | 720 | CLA | CMB-C2B-C1B | -3.88 | 122.50 | 128.46 |
| 29 | D | 311 | CLA | CMB-C2B-C1B | -3.88 | 122.50 | 128.46 |
| 36 | E | 303 | DD6 | C3-C2-C1 | -3.88 | 121.77 | 127.31 |
| 36 | L | 303 | DD6 | C3-C2-C1 | -3.87 | 121.78 | 127.31 |
| 37 | H | 306 | PID | C17-C16-C15 | 3.87 | 131.41 | 123.47 |
| 37 | O | 307 | PID | C17-C16-C15 | 3.87 | 131.41 | 123.47 |
| 29 | l | 501 | CLA | CMB-C2B-C1B | -3.87 | 122.51 | 128.46 |
| 29 | b | 709 | CLA | CMB-C2B-C1B | -3.87 | 122.51 | 128.46 |
| 29 | I | 216 | CLA | CMB-C2B-C1B | -3.87 | 122.51 | 128.46 |
| 38 | L | 302 | UIX | C6-C1-C3 | 3.87 | 118.64 | 114.28 |
| 38 | C | 306 | UIX | C6-C1-C3 | 3.87 | 118.64 | 114.28 |
| 37 | H | 301 | PID | C12-O4-C10 | 3.87 | 109.66 | 107.65 |
| 29 | I | 209 | CLA | CMB-C2B-C1B | -3.87 | 122.52 | 128.46 |
| 29 | O | 316 | CLA | CMB-C2B-C1B | -3.87 | 122.52 | 128.46 |
| 38 | E | 304 | UIX | C37-C39-C40 | -3.86 | 121.79 | 127.31 |
| 29 | B | 314 | CLA | CMB-C2B-C1B | -3.86 | 122.53 | 128.46 |
| 35 | j | 103 | DGD | C2G-O2G-C1B | -3.86 | 108.29 | 117.79 |
| 36 | h | 202 | DD6 | C32-C33-C34 | -3.86 | 104.93 | 113.64 |
| 29 | K | 209 | CLA | CMB-C2B-C1B | -3.85 | 122.54 | 128.46 |
| 29 | H | 315 | CLA | CMB-C2B-C1B | -3.85 | 122.54 | 128.46 |
| 37 | G | 303 | PID | CM4-C14-C15 | -3.85 | 117.53 | 122.92 |
| 29 | N | 309 | CLA | CMB-C2B-C1B | -3.85 | 122.55 | 128.46 |
| 29 | a | 805 | CLA | CMB-C2B-C1B | -3.85 | 122.55 | 128.46 |
| 35 | j | 103 | DGD | C1E-O6E-C5E | 3.84 | 121.23 | 113.69 |
| 29 | b | 717 | CLA | CMB-C2B-C1B | -3.84 | 122.56 | 128.46 |
| 37 | N | 302 | PID | CM4-C14-C15 | -3.84 | 117.55 | 122.92 |
| 34 | E | 316 | LMG | O6-C5-C4 | 3.83 | 116.65 | 109.69 |
| 37 | P | 202 | PID | C12-O4-C10 | 3.83 | 109.64 | 107.65 |
| 29 | f | 805 | CLA | CMB-C2B-C1B | -3.83 | 122.58 | 128.46 |
| 32 | i | 204 | BCR | C33-C5-C6 | -3.83 | 120.23 | 124.53 |
| 29 | C | 314 | CLA | CMB-C2B-C1B | -3.83 | 122.58 | 128.46 |
| 36 | B | 301 | DD6 | C15-C14-C13 | -3.82 | 117.91 | 125.99 |
| 29 | Q | 315 | CLA | CMB-C2B-C1B | -3.82 | 122.59 | 128.46 |
| 29 | D | 309 | CLA | CMB-C2B-C1B | -3.81 | 122.60 | 128.46 |
| 29 | l | 508 | CLA | CMB-C2B-C1B | -3.81 | 122.61 | 128.46 |
| 29 | D | 316 | CLA | CMB-C2B-C1B | -3.81 | 122.61 | 128.46 |
| 29 | L | 313 | CLA | CMB-C2B-C1B | -3.81 | 122.61 | 128.46 |
| 29 | H | 310 | CLA | CMB-C2B-C1B | -3.81 | 122.61 | 128.46 |
| 36 | K | 204 | DD6 | C4-C5-C6 | -3.81 | 121.88 | 127.31 |
| 36 | I | 203 | DD6 | C25-C26-C27 | -3.80 | 115.56 | 126.58 |
| 37 | C | 302 | PID | C12-O4-C10 | 3.80 | 109.63 | 107.65 |
| 29 | b | 731 | CLA | CMB-C2B-C1B | -3.79 | 122.63 | 128.46 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 36 | B | 302 | DD6 | C9-C10-C11 | -3.79 | 121.90 | 127.31 |
| 29 | l | 503 | CLA | CMB-C2B-C1B | -3.79 | 122.64 | 128.46 |
| 29 | i | 202 | CLA | CMB-C2B-C1B | -3.79 | 122.64 | 128.46 |
| 35 | j | 103 | DGD | O2G-C1B-C2B | 3.79 | 119.66 | 111.50 |
| 29 | N | 316 | CLA | CMB-C2B-C1B | -3.78 | 122.65 | 128.46 |
| 29 | b | 726 | CLA | CMB-C2B-C1B | -3.78 | 122.66 | 128.46 |
| 37 | T | 304 | PID | C12-O4-C10 | 3.78 | 109.62 | 107.65 |
| 29 | M | 313 | CLA | CMB-C2B-C1B | -3.78 | 122.66 | 128.46 |
| 29 | l | 505 | CLA | CMB-C2B-C1B | -3.78 | 122.66 | 128.46 |
| 37 | O | 305 | PID | C12-O4-C10 | 3.77 | 109.61 | 107.65 |
| 32 | a | 838 | BCR | C3-C4-C5 | -3.77 | 107.34 | 114.08 |
| 29 | l | 504 | CLA | CMB-C2B-C1B | -3.77 | 122.67 | 128.46 |
| 36 | L | 304 | DD6 | C4-C5-C6 | -3.77 | 121.93 | 127.31 |
| 29 | I | 201 | CLA | CMB-C2B-C1B | -3.77 | 122.67 | 128.46 |
| 36 | N | 303 | DD6 | C4-C5-C6 | -3.77 | 121.94 | 127.31 |
| 36 | L | 305 | DD6 | C37-C36-C31 | -3.77 | 119.23 | 124.35 |
| 29 | L | 312 | CLA | CMB-C2B-C1B | -3.76 | 122.68 | 128.46 |
| 36 | I | 202 | DD6 | C37-C36-C31 | -3.76 | 119.24 | 124.35 |
| 29 | A | 209 | CLA | CMB-C2B-C1B | -3.75 | 122.69 | 128.46 |
| 37 | N | 304 | PID | C12-O4-C10 | 3.75 | 109.60 | 107.65 |
| 37 | C | 304 | PID | C12-O4-C10 | 3.75 | 109.60 | 107.65 |
| 29 | L | 310 | CLA | CMB-C2B-C1B | -3.75 | 122.71 | 128.46 |
| 32 | a | 835 | BCR | C7-C8-C9 | -3.75 | 120.58 | 126.23 |
| 37 | C | 307 | PID | C12-O4-C10 | 3.74 | 109.60 | 107.65 |
| 29 | a | 823 | CLA | CMB-C2B-C3B | 3.74 | 131.68 | 124.68 |
| 37 | F | 306 | PID | C17-C16-C15 | 3.74 | 131.14 | 123.47 |
| 30 | b | 727 | PQN | C11-C12-C13 | -3.74 | 120.56 | 126.79 |
| 37 | Q | 304 | PID | C12-O4-C10 | 3.74 | 109.60 | 107.65 |
| 38 | Q | 305 | UIX | C1-C3-C5 | -3.74 | 105.35 | 112.75 |
| 37 | D | 306 | PID | CM4-C14-C15 | -3.74 | 117.69 | 122.92 |
| 29 | O | 313 | CLA | CMB-C2B-C3B | 3.74 | 131.67 | 124.68 |
| 29 | G | 314 | CLA | CMB-C2B-C1B | -3.74 | 122.72 | 128.46 |
| 29 | D | 313 | CLA | CMB-C2B-C1B | -3.74 | 122.72 | 128.46 |
| 37 | F | 302 | PID | C17-C16-C15 | 3.74 | 131.13 | 123.47 |
| 29 | J | 306 | CLA | CMB-C2B-C1B | -3.74 | 122.72 | 128.46 |
| 29 | L | 308 | CLA | CMB-C2B-C1B | -3.74 | 122.72 | 128.46 |
| 29 | J | 310 | CLA | CMB-C2B-C3B | 3.73 | 131.67 | 124.68 |
| 32 | l | 506 | BCR | C16-C17-C18 | -3.73 | 121.98 | 127.31 |
| 32 | b | 735 | BCR | C3-C4-C5 | -3.73 | 107.42 | 114.08 |
| 36 | F | 301 | DD6 | C37-C36-C31 | -3.73 | 119.28 | 124.35 |
| 29 | K | 208 | CLA | CMB-C2B-C1B | -3.72 | 122.74 | 128.46 |
| 29 | C | 309 | CLA | CMB-C2B-C1B | -3.72 | 122.74 | 128.46 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 37 | T | 305 | PID | C12-O4-C10 | 3.72 | 109.59 | 107.65 |
| 29 | C | 311 | CLA | CMB-C2B-C1B | -3.72 | 122.75 | 128.46 |
| 29 | b | 712 | CLA | CMB-C2B-C1B | -3.72 | 122.75 | 128.46 |
| 29 | I | 214 | CLA | CMB-C2B-C1B | -3.72 | 122.75 | 128.46 |
| 36 | A | 201 | DD6 | C4-C5-C6 | -3.72 | 122.00 | 127.31 |
| 29 | T | 311 | CLA | CMB-C2B-C1B | -3.72 | 122.75 | 128.46 |
| 38 | B | 304 | UIX | C34-C30-C26 | -3.72 | 122.01 | 127.31 |
| 29 | j | 104 | CLA | CMB-C2B-C1B | -3.71 | 122.76 | 128.46 |
| 29 | F | 315 | CLA | CMB-C2B-C1B | -3.71 | 122.76 | 128.46 |
| 29 | N | 311 | CLA | CMB-C2B-C1B | -3.71 | 122.76 | 128.46 |
| 29 | B | 311 | CLA | CMB-C2B-C1B | -3.71 | 122.77 | 128.46 |
| 36 | L | 303 | DD6 | C4-C5-C6 | -3.71 | 122.02 | 127.31 |
| 38 | B | 304 | UIX | C6-C1-C3 | 3.70 | 118.45 | 114.28 |
| 37 | H | 302 | PID | CM4-C14-C15 | -3.70 | 117.73 | 122.92 |
| 29 | b | 705 | CLA | CMB-C2B-C1B | -3.70 | 122.77 | 128.46 |
| 29 | F | 310 | CLA | CMB-C2B-C1B | -3.70 | 122.77 | 128.46 |
| 36 | E | 303 | DD6 | C37-C36-C31 | -3.70 | 119.32 | 124.35 |
| 29 | P | 217 | CLA | CMB-C2B-C1B | -3.70 | 122.77 | 128.46 |
| 32 | a | 838 | BCR | C28-C27-C26 | -3.70 | 107.47 | 114.08 |
| 36 | G | 306 | DD6 | C15-C14-C13 | -3.70 | 118.17 | 125.99 |
| 38 | P | 207 | UIX | C36-C35-C32 | -3.70 | 122.03 | 127.31 |
| 37 | T | 307 | PID | CM5-C21-C20 | -3.70 | 117.74 | 122.92 |
| 29 | L | 307 | CLA | CMB-C2B-C1B | -3.70 | 122.78 | 128.46 |
| 37 | T | 301 | PID | C12-O4-C10 | 3.70 | 109.57 | 107.65 |
| 29 | Q | 310 | CLA | CMB-C2B-C1B | -3.70 | 122.78 | 128.46 |
| 32 | b | 729 | BCR | C15-C14-C13 | -3.69 | 122.04 | 127.31 |
| 36 | F | 303 | DD6 | C15-C14-C13 | -3.69 | 118.18 | 125.99 |
| 29 | a | 812 | CLA | CMB-C2B-C3B | 3.69 | 131.59 | 124.68 |
| 36 | M | 301 | DD6 | C37-C36-C31 | -3.69 | 119.33 | 124.35 |
| 29 | a | 821 | CLA | CMB-C2B-C1B | -3.69 | 122.79 | 128.46 |
| 29 | P | 210 | CLA | CMB-C2B-C1B | -3.69 | 122.79 | 128.46 |
| 36 | J | 303 | DD6 | C37-C36-C31 | -3.69 | 119.34 | 124.35 |
| 36 | D | 301 | DD6 | C12-C11-C13 | 3.69 | 123.89 | 118.08 |
| 29 | A | 208 | CLA | CMB-C2B-C3B | 3.69 | 131.58 | 124.68 |
| 36 | B | 301 | DD6 | C9-C10-C11 | -3.69 | 122.05 | 127.31 |
| 29 | I | 211 | CLA | CMB-C2B-C3B | 3.69 | 131.57 | 124.68 |
| 36 | H | 303 | DD6 | C15-C14-C13 | -3.68 | 118.20 | 125.99 |
| 29 | a | 819 | CLA | CMB-C2B-C1B | -3.68 | 122.80 | 128.46 |
| 29 | J | 313 | CLA | CMB-C2B-C1B | -3.68 | 122.80 | 128.46 |
| 32 | a | 838 | BCR | C20-C21-C22 | -3.68 | 122.05 | 127.31 |
| 29 | T | 313 | CLA | CMB-C2B-C1B | -3.68 | 122.81 | 128.46 |
| 37 | D | 305 | PID | C12-O4-C10 | 3.68 | 109.57 | 107.65 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 36 | E | 302 | DD6 | C37-C36-C31 | -3.68 | 119.35 | 124.35 |
| 37 | C | 305 | PID | CM5-C21-C20 | -3.68 | 117.77 | 122.92 |
| 36 | I | 204 | DD6 | C20-C19-C18 | -3.68 | 105.48 | 112.75 |
| 37 | Q | 303 | PID | C12-O4-C10 | 3.67 | 109.56 | 107.65 |
| 38 | T | 306 | UIX | C6-C1-C3 | 3.67 | 118.41 | 114.28 |
| 37 | D | 303 | PID | CM4-C14-C15 | -3.67 | 117.78 | 122.92 |
| 36 | J | 301 | DD6 | C25-C24-C1 | -3.67 | 116.10 | 126.42 |
| 29 | M | 315 | CLA | CMB-C2B-C1B | -3.67 | 122.82 | 128.46 |
| 36 | I | 202 | DD6 | C4-C5-C6 | -3.67 | 122.07 | 127.31 |
| 29 | O | 309 | CLA | CMB-C2B-C1B | -3.67 | 122.83 | 128.46 |
| 29 | H | 308 | CLA | CMB-C2B-C1B | -3.67 | 122.83 | 128.46 |
| 29 | b | 719 | CLA | CMB-C2B-C3B | 3.67 | 131.54 | 124.68 |
| 32 | a | 834 | BCR | C38-C26-C25 | -3.66 | 120.41 | 124.53 |
| 36 | G | 305 | DD6 | C14-C13-C11 | -3.66 | 119.85 | 125.53 |
| 29 | l | 509 | CLA | CMB-C2B-C1B | -3.66 | 122.83 | 128.46 |
| 36 | K | 205 | DD6 | C15-C14-C13 | -3.66 | 118.25 | 125.99 |
| 29 | C | 316 | CLA | CMB-C2B-C1B | -3.66 | 122.84 | 128.46 |
| 37 | D | 302 | PID | C12-O4-C10 | 3.66 | 109.56 | 107.65 |
| 29 | A | 216 | CLA | CMB-C2B-C1B | -3.66 | 122.84 | 128.46 |
| 32 | m | 103 | BCR | C24-C23-C22 | -3.66 | 120.71 | 126.23 |
| 29 | f | 803 | CLA | CMB-C2B-C1B | -3.66 | 122.85 | 128.46 |
| 37 | N | 307 | PID | C17-C16-C15 | 3.65 | 130.95 | 123.47 |
| 29 | b | 723 | CLA | CMB-C2B-C3B | 3.65 | 131.50 | 124.68 |
| 36 | J | 301 | DD6 | C37-C36-C31 | -3.65 | 119.39 | 124.35 |
| 37 | N | 305 | PID | C18-C19-C20 | 3.65 | 130.95 | 123.47 |
| 39 | F | 314 | KC1 | C3D-CAD-CBD | -3.65 | 102.80 | 107.61 |
| 36 | G | 308 | DD6 | C37-C36-C31 | -3.65 | 119.39 | 124.35 |
| 29 | f | 802 | CLA | CMB-C2B-C1B | -3.65 | 122.86 | 128.46 |
| 32 | a | 838 | BCR | C24-C23-C22 | -3.64 | 120.73 | 126.23 |
| 36 | K | 203 | DD6 | C4-C5-C6 | -3.64 | 122.11 | 127.31 |
| 32 | f | 804 | BCR | C16-C17-C18 | -3.64 | 122.11 | 127.31 |
| 29 | I | 207 | CLA | CMB-C2B-C1B | -3.64 | 122.87 | 128.46 |
| 29 | G | 312 | CLA | CMB-C2B-C1B | -3.64 | 122.87 | 128.46 |
| 37 | D | 306 | PID | C18-C19-C20 | 3.64 | 130.93 | 123.47 |
| 29 | a | 814 | CLA | CMB-C2B-C1B | -3.64 | 122.87 | 128.46 |
| 29 | H | 313 | CLA | CMB-C2B-C1B | -3.64 | 122.87 | 128.46 |
| 38 | L | 302 | UIX | C34-C37-C39 | -3.64 | 116.02 | 123.47 |
| 32 | f | 804 | BCR | C20-C21-C22 | -3.63 | 122.12 | 127.31 |
| 29 | T | 316 | CLA | CMB-C2B-C1B | -3.63 | 122.88 | 128.46 |
| 36 | B | 319 | DD6 | C4-C5-C6 | -3.63 | 122.13 | 127.31 |
| 29 | P | 215 | CLA | CMB-C2B-C1B | -3.63 | 122.89 | 128.46 |
| 29 | h | 201 | CLA | CMB-C2B-C3B | 3.62 | 131.46 | 124.68 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | I | 213 | CLA | CMB-C2B-C1B | -3.62 | 122.90 | 128.46 |
| 29 | D | 308 | CLA | CMB-C2B-C1B | -3.62 | 122.90 | 128.46 |
| 32 | b | 735 | BCR | C15-C14-C13 | -3.62 | 122.14 | 127.31 |
| 37 | G | 309 | PID | C12-O4-C10 | 3.62 | 109.53 | 107.65 |
| 32 | a | 838 | BCR | C7-C8-C9 | -3.62 | 120.77 | 126.23 |
| 36 | J | 301 | DD6 | C21-C20-C19 | 3.62 | 118.35 | 114.28 |
| 37 | Q | 301 | PID | C12-O4-C10 | 3.62 | 109.53 | 107.65 |
| 32 | m | 103 | BCR | C38-C26-C27 | 3.61 | 120.56 | 113.62 |
| 29 | a | 803 | CLA | CMB-C2B-C3B | 3.61 | 131.44 | 124.68 |
| 36 | K | 206 | DD6 | C15-C14-C13 | -3.61 | 118.36 | 125.99 |
| 29 | a | 824 | CLA | CMB-C2B-C1B | -3.61 | 122.92 | 128.46 |
| 29 | b | 710 | CLA | CMB-C2B-C1B | -3.59 | 122.94 | 128.46 |
| 29 | I | 212 | CLA | CMB-C2B-C1B | -3.59 | 122.94 | 128.46 |
| 37 | O | 307 | PID | C12-O4-C10 | 3.59 | 109.52 | 107.65 |
| 29 | a | 811 | CLA | CMB-C2B-C1B | -3.59 | 122.94 | 128.46 |
| 37 | T | 317 | PID | C12-O4-C10 | 3.59 | 109.52 | 107.65 |
| 37 | O | 304 | PID | C12-O4-C10 | 3.59 | 109.52 | 107.65 |
| 29 | a | 816 | CLA | CMB-C2B-C1B | -3.59 | 122.95 | 128.46 |
| 29 | K | 210 | CLA | CMB-C2B-C3B | 3.59 | 131.40 | 124.68 |
| 37 | H | 305 | PID | C12-O4-C10 | 3.59 | 109.52 | 107.65 |
| 37 | Q | 306 | PID | C18-C19-C20 | 3.59 | 130.82 | 123.47 |
| 36 | M | 301 | DD6 | C4-C5-C6 | -3.59 | 122.19 | 127.31 |
| 29 | a | 804 | CLA | O2D-CGD-O1D | -3.59 | 116.83 | 123.84 |
| 36 | B | 303 | DD6 | C15-C14-C13 | -3.59 | 118.41 | 125.99 |
| 29 | M | 311 | CLA | CMB-C2B-C1B | -3.58 | 122.95 | 128.46 |
| 36 | C | 303 | DD6 | C15-C14-C13 | -3.58 | 118.42 | 125.99 |
| 37 | j | 101 | PID | CM4-C14-C15 | -3.58 | 117.90 | 122.92 |
| 36 | L | 305 | DD6 | C15-C14-C13 | -3.58 | 118.42 | 125.99 |
| 37 | O | 305 | PID | C17-C16-C15 | 3.58 | 130.81 | 123.47 |
| 29 | b | 724 | CLA | CMB-C2B-C1B | -3.58 | 122.96 | 128.46 |
| 37 | F | 302 | PID | CM5-C21-C20 | -3.58 | 117.91 | 122.92 |
| 36 | M | 302 | DD6 | C15-C14-C13 | -3.58 | 118.43 | 125.99 |
| 36 | G | 307 | DD6 | C21-C20-C19 | 3.58 | 118.30 | 114.28 |
| 29 | T | 314 | CLA | CMB-C2B-C3B | 3.57 | 131.36 | 124.68 |
| 37 | N | 307 | PID | C12-O4-C10 | 3.57 | 109.51 | 107.65 |
| 29 | T | 309 | CLA | CMB-C2B-C1B | -3.57 | 122.97 | 128.46 |
| 36 | A | 204 | DD6 | C37-C36-C31 | -3.57 | 119.50 | 124.35 |
| 38 | F | 305 | UIX | C6-C1-C3 | 3.57 | 118.30 | 114.28 |
| 29 | H | 312 | CLA | CMB-C2B-C3B | 3.57 | 131.36 | 124.68 |
| 36 | T | 303 | DD6 | C15-C14-C13 | -3.57 | 118.45 | 125.99 |
| 36 | L | 301 | DD6 | C37-C36-C31 | -3.57 | 119.50 | 124.35 |
| 39 | M | 305 | KC1 | C3D-CAD-CBD | -3.57 | 102.91 | 107.61 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 32 | m | 103 | BCR | C27-C26-C25 | -3.56 | 117.56 | 122.73 |
| 29 | a | 804 | CLA | CMB-C2B-C1B | -3.56 | 122.99 | 128.46 |
| 36 | K | 221 | DD6 | C37-C36-C31 | -3.56 | 119.51 | 124.35 |
| 29 | F | 308 | CLA | CMB-C2B-C1B | -3.56 | 122.99 | 128.46 |
| 38 | B | 304 | UIX | C14-C13-C11 | -3.56 | 122.23 | 127.31 |
| 29 | F | 312 | CLA | CMB-C2B-C1B | -3.56 | 123.00 | 128.46 |
| 37 | F | 306 | PID | C12-O4-C10 | 3.56 | 109.50 | 107.65 |
| 36 | m | 101 | DD6 | C9-C10-C11 | -3.56 | 122.23 | 127.31 |
| 29 | b | 718 | CLA | CMB-C2B-C3B | 3.56 | 131.33 | 124.68 |
| 36 | h | 202 | DD6 | C15-C14-C13 | -3.55 | 118.48 | 125.99 |
| 29 | b | 707 | CLA | CMB-C2B-C1B | -3.55 | 123.00 | 128.46 |
| 29 | F | 316 | CLA | CMB-C2B-C1B | -3.55 | 123.01 | 128.46 |
| 37 | N | 307 | PID | CM2-C5-C4 | -3.55 | 102.82 | 108.98 |
| 38 | J | 304 | UIX | C35-C36-C38 | -3.55 | 112.15 | 123.22 |
| 37 | H | 305 | PID | C17-C18-C19 | 3.55 | 132.70 | 124.81 |
| 29 | M | 306 | CLA | CMB-C2B-C1B | -3.55 | 123.01 | 128.46 |
| 37 | h | 204 | PID | C12-O4-C10 | 3.54 | 109.50 | 107.65 |
| 29 | b | 702 | CLA | CMB-C2B-C1B | -3.54 | 123.02 | 128.46 |
| 36 | Q | 302 | DD6 | C3-C2-C1 | -3.54 | 122.25 | 127.31 |
| 37 | P | 203 | PID | CM4-C14-C15 | -3.54 | 117.96 | 122.92 |
| 29 | B | 306 | CLA | CMB-C2B-C1B | -3.54 | 123.02 | 128.46 |
| 29 | b | 714 | CLA | CMB-C2B-C1B | -3.54 | 123.02 | 128.46 |
| 37 | N | 307 | PID | C18-C19-C20 | 3.53 | 130.71 | 123.47 |
| 29 | E | 308 | CLA | CMB-C2B-C1B | -3.53 | 123.04 | 128.46 |
| 36 | A | 202 | DD6 | C37-C36-C31 | -3.53 | 119.55 | 124.35 |
| 36 | G | 305 | DD6 | C32-C33-C34 | -3.53 | 105.67 | 113.64 |
| 36 | F | 301 | DD6 | O1-C20-C21 | 3.53 | 119.28 | 115.06 |
| 29 | b | 716 | CLA | CMB-C2B-C3B | 3.53 | 131.28 | 124.68 |
| 29 | G | 316 | CLA | CMB-C2B-C1B | -3.52 | 123.05 | 128.46 |
| 37 | C | 305 | PID | C12-O4-C10 | 3.52 | 109.48 | 107.65 |
| 38 | E | 304 | UIX | C6-C1-C3 | 3.52 | 118.24 | 114.28 |
| 36 | K | 203 | DD6 | C3-C2-C1 | -3.52 | 122.28 | 127.31 |
| 36 | K | 204 | DD6 | C14-C13-C11 | -3.52 | 120.07 | 125.53 |
| 32 | a | 834 | BCR | C33-C5-C6 | -3.52 | 120.57 | 124.53 |
| 36 | A | 202 | DD6 | C4-C5-C6 | -3.52 | 122.29 | 127.31 |
| 36 | B | 303 | DD6 | C37-C36-C31 | -3.52 | 119.57 | 124.35 |
| 36 | M | 302 | DD6 | C-C1-C2 | -3.52 | 118.00 | 122.92 |
| 29 | F | 307 | CLA | CMB-C2B-C1B | -3.52 | 123.06 | 128.46 |
| 38 | J | 304 | UIX | O-C1-C6 | 3.51 | 119.26 | 115.06 |
| 32 | a | 834 | BCR | C7-C8-C9 | -3.50 | 120.94 | 126.23 |
| 29 | a | 822 | CLA | CMB-C2B-C1B | -3.50 | 123.08 | 128.46 |
| 36 | G | 308 | DD6 | C4-C5-C6 | -3.50 | 122.31 | 127.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | a | 837 | CLA | CMB-C2B-C1B | -3.50 | 123.08 | 128.46 |
| 29 | L | 316 | CLA | CMB-C2B-C1B | -3.50 | 123.08 | 128.46 |
| 36 | A | 201 | DD6 | C37-C36-C31 | -3.50 | 119.59 | 124.35 |
| 29 | a | 830 | CLA | CMB-C2B-C3B | 3.50 | 131.23 | 124.68 |
| 37 | T | 302 | PID | C12-O4-C10 | 3.50 | 109.47 | 107.65 |
| 37 | O | 302 | PID | CM4-C14-C15 | -3.50 | 118.03 | 122.92 |
| 36 | J | 303 | DD6 | C25-C24-C1 | -3.49 | 116.60 | 126.42 |
| 29 | M | 311 | CLA | O2D-CGD-O1D | -3.49 | 117.01 | 123.84 |
| 37 | E | 301 | PID | C12-O4-C10 | 3.49 | 109.47 | 107.65 |
| 29 | J | 307 | CLA | CMB-C2B-C1B | -3.49 | 123.10 | 128.46 |
| 36 | E | 303 | DD6 | C4-C5-C6 | -3.49 | 122.33 | 127.31 |
| 32 | f | 804 | BCR | C38-C26-C25 | -3.49 | 120.61 | 124.53 |
| 29 | F | 313 | CLA | CMB-C2B-C1B | -3.49 | 123.11 | 128.46 |
| 29 | K | 218 | CLA | CMB-C2B-C1B | -3.49 | 123.11 | 128.46 |
| 29 | E | 315 | CLA | CMB-C2B-C1B | -3.49 | 123.11 | 128.46 |
| 29 | J | 305 | CLA | CMB-C2B-C1B | -3.48 | 123.11 | 128.46 |
| 29 | B | 309 | CLA | CMB-C2B-C3B | 3.48 | 131.20 | 124.68 |
| 36 | M | 304 | DD6 | C37-C36-C31 | -3.48 | 119.61 | 124.35 |
| 29 | P | 214 | CLA | CMB-C2B-C1B | -3.48 | 123.11 | 128.46 |
| 37 | C | 307 | PID | C17-C16-C15 | 3.48 | 130.60 | 123.47 |
| 29 | E | 311 | CLA | CMB-C2B-C3B | 3.48 | 131.19 | 124.68 |
| 36 | I | 206 | DD6 | C37-C36-C31 | -3.48 | 119.62 | 124.35 |
| 29 | E | 310 | CLA | CMB-C2B-C3B | 3.48 | 131.19 | 124.68 |
| 36 | A | 204 | DD6 | C15-C14-C13 | -3.47 | 118.65 | 125.99 |
| 29 | C | 313 | CLA | CMB-C2B-C1B | -3.47 | 123.13 | 128.46 |
| 29 | G | 301 | CLA | CMB-C2B-C3B | 3.47 | 131.17 | 124.68 |
| 29 | b | 703 | CLA | CMB-C2B-C3B | 3.47 | 131.17 | 124.68 |
| 29 | P | 212 | CLA | CMB-C2B-C1B | -3.47 | 123.14 | 128.46 |
| 38 | J | 304 | UIX | O2-C27-C31 | 3.47 | 117.47 | 111.09 |
| 36 | m | 101 | DD6 | C4-C5-C6 | -3.47 | 122.36 | 127.31 |
| 29 | b | 736 | CLA | CMB-C2B-C1B | -3.46 | 123.14 | 128.46 |
| 38 | J | 304 | UIX | C6-C1-C3 | 3.46 | 118.18 | 114.28 |
| 29 | A | 214 | CLA | CMB-C2B-C1B | -3.46 | 123.14 | 128.46 |
| 29 | A | 218 | CLA | CMB-C2B-C3B | 3.46 | 131.16 | 124.68 |
| 32 | l | 507 | BCR | C24-C23-C22 | -3.46 | 121.01 | 126.23 |
| 29 | G | 311 | CLA | CMB-C2B-C1B | -3.46 | 123.15 | 128.46 |
| 32 | a | 838 | BCR | C11-C10-C9 | -3.46 | 122.38 | 127.31 |
| 29 | L | 317 | CLA | CMB-C2B-C1B | -3.46 | 123.15 | 128.46 |
| 36 | K | 204 | DD6 | C37-C36-C31 | -3.46 | 119.65 | 124.35 |
| 32 | l | 506 | BCR | C38-C26-C25 | -3.45 | 120.65 | 124.53 |
| 37 | Q | 301 | PID | C17-C16-C15 | 3.45 | 130.55 | 123.47 |
| 29 | a | 808 | CLA | CMB-C2B-C1B | -3.45 | 123.16 | 128.46 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 36 | G | 307 | DD6 | C14-C13-C11 | -3.45 | 120.17 | 125.53 |
| 29 | L | 309 | CLA | CMB-C2B-C3B | 3.45 | 131.14 | 124.68 |
| 36 | B | 305 | DD6 | C15-C14-C13 | -3.45 | 118.70 | 125.99 |
| 29 | K | 213 | CLA | CMB-C2B-C1B | -3.45 | 123.16 | 128.46 |
| 29 | M | 308 | CLA | CMB-C2B-C1B | -3.45 | 123.17 | 128.46 |
| 29 | E | 306 | CLA | CMB-C2B-C1B | -3.45 | 123.17 | 128.46 |
| 29 | I | 217 | CLA | CMB-C2B-C1B | -3.44 | 123.17 | 128.46 |
| 29 | G | 304 | CLA | CMB-C2B-C1B | -3.44 | 123.17 | 128.46 |
| 38 | O | 306 | UIX | C1-C3-C5 | -3.44 | 105.94 | 112.75 |
| 36 | I | 203 | DD6 | O1-C20-C15 | -3.44 | 56.11 | 58.96 |
| 35 | b | 733 | DGD | O1G-C1A-C2A | 3.44 | 122.70 | 111.91 |
| 29 | B | 316 | CLA | CMB-C2B-C1B | -3.44 | 123.18 | 128.46 |
| 32 | a | 834 | BCR | C20-C21-C22 | -3.43 | 122.41 | 127.31 |
| 29 | a | 820 | CLA | CMB-C2B-C1B | -3.43 | 123.19 | 128.46 |
| 29 | Q | 312 | CLA | CMB-C2B-C1B | -3.43 | 123.19 | 128.46 |
| 29 | A | 206 | CLA | O2D-CGD-O1D | -3.43 | 117.13 | 123.84 |
| 36 | O | 303 | DD6 | C21-C20-C15 | -3.43 | 116.51 | 122.26 |
| 29 | b | 722 | CLA | CMB-C2B-C3B | 3.43 | 131.10 | 124.68 |
| 29 | O | 308 | CLA | CMB-C2B-C1B | -3.43 | 123.19 | 128.46 |
| 36 | B | 302 | DD6 | C15-C14-C13 | -3.43 | 118.74 | 125.99 |
| 29 | I | 210 | CLA | CMB-C2B-C3B | 3.42 | 131.09 | 124.68 |
| 29 | a | 826 | CLA | CMB-C2B-C1B | -3.42 | 123.20 | 128.46 |
| 29 | a | 828 | CLA | CMB-C2B-C1B | -3.42 | 123.21 | 128.46 |
| 36 | A | 202 | DD6 | C15-C14-C13 | -3.42 | 118.76 | 125.99 |
| 37 | H | 302 | PID | C12-O4-C10 | 3.42 | 109.43 | 107.65 |
| 29 | B | 308 | CLA | CMB-C2B-C3B | 3.42 | 131.07 | 124.68 |
| 36 | B | 305 | DD6 | O1-C20-C19 | -3.42 | 110.82 | 113.38 |
| 37 | Q | 304 | PID | CM5-C21-C20 | -3.42 | 118.14 | 122.92 |
| 32 | b | 728 | BCR | C8-C7-C6 | -3.41 | 117.62 | 127.20 |
| 37 | T | 305 | PID | CM5-C21-C20 | -3.41 | 118.15 | 122.92 |
| 39 | O | 315 | KC1 | C3D-CAD-CBD | -3.41 | 103.12 | 107.61 |
| 29 | J | 308 | CLA | CMB-C2B-C3B | 3.41 | 131.05 | 124.68 |
| 29 | A | 210 | CLA | CMB-C2B-C1B | -3.41 | 123.23 | 128.46 |
| 29 | P | 209 | CLA | CMB-C2B-C1B | -3.40 | 123.23 | 128.46 |
| 29 | a | 813 | CLA | CMB-C2B-C1B | -3.40 | 123.24 | 128.46 |
| 29 | B | 307 | CLA | CMB-C2B-C1B | -3.40 | 123.24 | 128.46 |
| 29 | F | 311 | CLA | CMB-C2B-C1B | -3.40 | 123.24 | 128.46 |
| 29 | O | 314 | CLA | CMB-C2B-C3B | 3.40 | 131.04 | 124.68 |
| 29 | D | 314 | CLA | CMB-C2B-C3B | 3.40 | 131.04 | 124.68 |
| 29 | K | 207 | CLA | CMB-C2B-C1B | -3.40 | 123.25 | 128.46 |
| 29 | E | 305 | CLA | CMB-C2B-C1B | -3.40 | 123.25 | 128.46 |
| 36 | E | 302 | DD6 | O1-C20-C21 | 3.40 | 119.12 | 115.06 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | P | 215 | CLA | O2D-CGD-O1D | -3.39 | 117.21 | 123.84 |
| 39 | G | 315 | KC1 | C3D-CAD-CBD | -3.39 | 103.14 | 107.61 |
| 29 | G | 313 | CLA | CMB-C2B-C3B | 3.39 | 131.02 | 124.68 |
| 36 | Q | 302 | DD6 | C37-C36-C31 | -3.39 | 119.74 | 124.35 |
| 37 | G | 310 | PID | C12-O4-C10 | 3.39 | 109.41 | 107.65 |
| 29 | A | 211 | CLA | CMB-C2B-C3B | 3.39 | 131.02 | 124.68 |
| 29 | a | 818 | CLA | CMB-C2B-C1B | -3.39 | 123.26 | 128.46 |
| 36 | B | 301 | DD6 | C37-C36-C31 | -3.39 | 119.75 | 124.35 |
| 36 | I | 202 | DD6 | C15-C14-C13 | -3.38 | 118.84 | 125.99 |
| 29 | E | 309 | CLA | CMB-C2B-C1B | -3.38 | 123.27 | 128.46 |
| 36 | G | 306 | DD6 | C14-C13-C11 | -3.38 | 120.28 | 125.53 |
| 36 | I | 203 | DD6 | C21-C20-C15 | -3.38 | 116.60 | 122.26 |
| 29 | B | 312 | CLA | CMB-C2B-C3B | 3.38 | 131.00 | 124.68 |
| 29 | b | 715 | CLA | CMB-C2B-C1B | -3.38 | 123.27 | 128.46 |
| 29 | E | 314 | CLA | CMB-C2B-C3B | 3.38 | 130.99 | 124.68 |
| 29 | T | 308 | CLA | CMB-C2B-C1B | -3.38 | 123.28 | 128.46 |
| 39 | K | 215 | KC1 | CHC-C4B-C3B | -3.38 | 119.48 | 125.26 |
| 29 | a | 831 | CLA | CMB-C2B-C3B | 3.37 | 130.99 | 124.68 |
| 38 | A | 203 | UIX | C34-C30-C26 | -3.37 | 122.50 | 127.31 |
| 29 | I | 216 | CLA | O2D-CGD-O1D | -3.37 | 117.24 | 123.84 |
| 36 | G | 307 | DD6 | C19-C18-C17 | -3.37 | 104.27 | 110.77 |
| 29 | a | 806 | CLA | CMB-C2B-C3B | 3.37 | 130.98 | 124.68 |
| 29 | C | 308 | CLA | CMB-C2B-C1B | -3.37 | 123.29 | 128.46 |
| 36 | J | 301 | DD6 | C25-C26-C27 | -3.37 | 116.80 | 126.58 |
| 29 | a | 807 | CLA | CMB-C2B-C3B | 3.37 | 130.98 | 124.68 |
| 29 | B | 315 | CLA | CMB-C2B-C3B | 3.37 | 130.98 | 124.68 |
| 29 | K | 211 | CLA | O2D-CGD-O1D | -3.37 | 117.26 | 123.84 |
| 37 | T | 301 | PID | CM5-C21-C20 | -3.36 | 118.21 | 122.92 |
| 29 | D | 312 | CLA | CMB-C2B-C1B | -3.36 | 123.29 | 128.46 |
| 36 | K | 206 | DD6 | O1-C20-C19 | -3.36 | 110.86 | 113.38 |
| 29 | i | 203 | CLA | CMB-C2B-C3B | 3.36 | 130.97 | 124.68 |
| 29 | H | 307 | CLA | CMB-C2B-C1B | -3.36 | 123.30 | 128.46 |
| 29 | A | 206 | CLA | CMB-C2B-C1B | -3.36 | 123.30 | 128.46 |
| 36 | N | 303 | DD6 | C15-C14-C13 | -3.36 | 118.89 | 125.99 |
| 29 | G | 302 | CLA | CMB-C2B-C3B | 3.36 | 130.96 | 124.68 |
| 37 | G | 310 | PID | CM5-C21-C20 | -3.36 | 118.22 | 122.92 |
| 37 | D | 303 | PID | C6-C7-C8 | -3.36 | 118.90 | 125.99 |
| 32 | l | 507 | BCR | C38-C26-C25 | -3.35 | 120.76 | 124.53 |
| 36 | I | 205 | DD6 | C37-C36-C31 | -3.35 | 119.79 | 124.35 |
| 29 | Q | 307 | CLA | CMB-C2B-C1B | -3.35 | 123.31 | 128.46 |
| 39 | D | 315 | KC1 | C3D-CAD-CBD | -3.35 | 103.19 | 107.61 |
| 38 | A | 203 | UIX | C37-C39-C40 | -3.35 | 122.53 | 127.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | a | 825 | CLA | O2D-CGD-O1D | -3.35 | 117.29 | 123.84 |
| 36 | K | 206 | DD6 | C37-C36-C31 | -3.35 | 119.80 | 124.35 |
| 36 | J | 301 | DD6 | O1-C20-C21 | -3.35 | 111.05 | 115.06 |
| 29 | A | 215 | CLA | CMB-C2B-C1B | -3.35 | 123.32 | 128.46 |
| 29 | L | 311 | CLA | CMB-C2B-C1B | -3.35 | 123.32 | 128.46 |
| 32 | b | 728 | BCR | C15-C14-C13 | -3.35 | 122.53 | 127.31 |
| 37 | D | 302 | PID | CM5-C21-C20 | -3.35 | 118.24 | 122.92 |
| 29 | B | 310 | CLA | CMB-C2B-C3B | 3.34 | 130.94 | 124.68 |
| 39 | J | 312 | KC1 | C3D-CAD-CBD | -3.34 | 103.21 | 107.61 |
| 36 | m | 101 | DD6 | C37-C36-C31 | -3.34 | 119.81 | 124.35 |
| 32 | f | 801 | BCR | C11-C10-C9 | -3.34 | 122.54 | 127.31 |
| 29 | I | 208 | CLA | CMB-C2B-C1B | -3.34 | 123.33 | 128.46 |
| 29 | K | 211 | CLA | CMB-C2B-C3B | 3.34 | 130.92 | 124.68 |
| 36 | E | 302 | DD6 | C21-C20-C19 | 3.34 | 118.03 | 114.28 |
| 29 | i | 201 | CLA | CMB-C2B-C3B | 3.34 | 130.92 | 124.68 |
| 29 | K | 217 | CLA | CMB-C2B-C1B | -3.34 | 123.34 | 128.46 |
| 29 | G | 317 | CLA | CMB-C2B-C3B | 3.33 | 130.92 | 124.68 |
| 29 | M | 314 | CLA | CMB-C2B-C3B | 3.33 | 130.92 | 124.68 |
| 36 | K | 202 | DD6 | C3-C4-C5 | -3.33 | 116.64 | 123.47 |
| 29 | a | 815 | CLA | CMB-C2B-C3B | 3.33 | 130.91 | 124.68 |
| 36 | F | 301 | DD6 | C3-C2-C1 | -3.33 | 122.56 | 127.31 |
| 36 | h | 202 | DD6 | C9-C10-C11 | -3.33 | 122.56 | 127.31 |
| 29 | b | 701 | CLA | CMB-C2B-C3B | 3.33 | 130.90 | 124.68 |
| 29 | a | 817 | CLA | CMB-C2B-C1B | -3.33 | 123.35 | 128.46 |
| 29 | i | 203 | CLA | O2D-CGD-O1D | -3.32 | 117.34 | 123.84 |
| 37 | h | 204 | PID | C18-C19-C20 | 3.32 | 130.28 | 123.47 |
| 39 | M | 312 | KC1 | C3D-CAD-CBD | -3.32 | 103.23 | 107.61 |
| 29 | L | 315 | CLA | CMB-C2B-C1B | -3.32 | 123.36 | 128.46 |
| 29 | M | 310 | CLA | CMB-C2B-C3B | 3.32 | 130.88 | 124.68 |
| 36 | B | 303 | DD6 | C4-C5-C6 | -3.31 | 122.58 | 127.31 |
| 32 | f | 804 | BCR | C24-C23-C22 | -3.31 | 121.23 | 126.23 |
| 29 | G | 319 | CLA | CMB-C2B-C3B | 3.31 | 130.88 | 124.68 |
| 29 | N | 313 | CLA | CMB-C2B-C3B | 3.31 | 130.87 | 124.68 |
| 29 | O | 314 | CLA | O2D-CGD-O1D | -3.31 | 117.37 | 123.84 |
| 29 | J | 306 | CLA | O2D-CGD-O1D | -3.31 | 117.37 | 123.84 |
| 29 | E | 313 | CLA | CMB-C2B-C3B | 3.31 | 130.87 | 124.68 |
| 32 | f | 804 | BCR | C33-C5-C6 | -3.30 | 120.82 | 124.53 |
| 37 | D | 302 | PID | C17-C16-C15 | 3.30 | 130.24 | 123.47 |
| 29 | M | 309 | CLA | CMB-C2B-C3B | 3.30 | 130.85 | 124.68 |
| 29 | b | 711 | CLA | CMB-C2B-C3B | 3.30 | 130.85 | 124.68 |
| 36 | T | 303 | DD6 | C37-C36-C31 | -3.30 | 119.86 | 124.35 |
| 36 | E | 303 | DD6 | C15-C14-C13 | -3.30 | 119.02 | 125.99 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 36 | G | 305 | DD6 | C25-C24-C1 | -3.30 | 117.16 | 126.42 |
| 36 | H | 303 | DD6 | C37-C36-C31 | -3.29 | 119.87 | 124.35 |
| 37 | D | 306 | PID | C12-O4-C10 | 3.29 | 109.36 | 107.65 |
| 29 | A | 212 | CLA | CMB-C2B-C3B | 3.29 | 130.84 | 124.68 |
| 29 | A | 207 | CLA | CMB-C2B-C3B | 3.29 | 130.84 | 124.68 |
| 35 | B | 318 | DGD | O6E-C5E-C4E | 3.29 | 115.67 | 109.69 |
| 37 | O | 302 | PID | C12-O4-C10 | 3.29 | 109.36 | 107.65 |
| 38 | A | 203 | UIX | C-C7-C10 | -3.29 | 119.04 | 125.99 |
| 29 | l | 501 | CLA | O2D-CGD-O1D | -3.29 | 117.41 | 123.84 |
| 29 | E | 315 | CLA | O2D-CGD-O1D | -3.29 | 117.41 | 123.84 |
| 29 | N | 308 | CLA | CMB-C2B-C1B | -3.29 | 123.41 | 128.46 |
| 29 | l | 502 | CLA | CMB-C2B-C1B | -3.29 | 123.41 | 128.46 |
| 38 | P | 207 | UIX | C6-C1-C3 | 3.29 | 117.98 | 114.28 |
| 29 | K | 216 | CLA | CMB-C2B-C3B | 3.28 | 130.82 | 124.68 |
| 29 | H | 315 | CLA | CMB-C2B-C3B | 3.28 | 130.82 | 124.68 |
| 29 | J | 308 | CLA | O2D-CGD-O1D | -3.28 | 117.42 | 123.84 |
| 36 | K | 204 | DD6 | O1-C20-C21 | 3.28 | 118.99 | 115.06 |
| 29 | Q | 308 | CLA | CMB-C2B-C3B | 3.28 | 130.82 | 124.68 |
| 32 | l | 507 | BCR | C20-C21-C22 | -3.28 | 122.63 | 127.31 |
| 29 | a | 805 | CLA | CMB-C2B-C3B | 3.28 | 130.81 | 124.68 |
| 29 | K | 209 | CLA | CMB-C2B-C3B | 3.28 | 130.81 | 124.68 |
| 29 | a | 809 | CLA | CMB-C2B-C3B | 3.28 | 130.81 | 124.68 |
| 29 | b | 721 | CLA | O2D-CGD-O1D | -3.27 | 117.44 | 123.84 |
| 39 | C | 310 | KC1 | C3D-CAD-CBD | -3.27 | 103.30 | 107.61 |
| 37 | T | 307 | PID | C12-O4-C10 | 3.27 | 109.35 | 107.65 |
| 37 | D | 303 | PID | C18-C19-C20 | 3.27 | 130.17 | 123.47 |
| 37 | N | 304 | PID | C18-C19-C20 | 3.27 | 130.17 | 123.47 |
| 37 | j | 101 | PID | C12-O4-C10 | 3.27 | 109.35 | 107.65 |
| 38 | B | 304 | UIX | C-C7-C10 | -3.26 | 119.09 | 125.99 |
| 36 | F | 303 | DD6 | O1-C20-C21 | 3.26 | 118.97 | 115.06 |
| 29 | F | 310 | CLA | O2D-CGD-O1D | -3.26 | 117.46 | 123.84 |
| 29 | b | 707 | CLA | O2D-CGD-O1D | -3.26 | 117.46 | 123.84 |
| 36 | K | 205 | DD6 | C3-C2-C1 | -3.26 | 122.66 | 127.31 |
| 37 | P | 203 | PID | C12-O4-C10 | 3.26 | 109.35 | 107.65 |
| 29 | I | 216 | CLA | CMB-C2B-C3B | 3.26 | 130.77 | 124.68 |
| 29 | D | 311 | CLA | CMB-C2B-C3B | 3.25 | 130.77 | 124.68 |
| 36 | D | 304 | DD6 | C37-C36-C31 | -3.25 | 119.93 | 124.35 |
| 29 | O | 316 | CLA | CMB-C2B-C3B | 3.25 | 130.76 | 124.68 |
| 29 | O | 311 | CLA | CMB-C2B-C3B | 3.25 | 130.76 | 124.68 |
| 29 | N | 314 | CLA | CMB-C2B-C3B | 3.25 | 130.75 | 124.68 |
| 37 | C | 307 | PID | CM2-C5-C4 | -3.25 | 103.34 | 108.98 |
| 37 | E | 301 | PID | CM4-C14-C15 | -3.24 | 118.38 | 122.92 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | D | 309 | CLA | CMB-C2B-C3B | 3.24 | 130.75 | 124.68 |
| 37 | F | 306 | PID | CM5-C21-C20 | -3.24 | 118.38 | 122.92 |
| 36 | O | 303 | DD6 | C3-C2-C1 | -3.24 | 122.69 | 127.31 |
| 29 | B | 314 | CLA | CMB-C2B-C3B | 3.24 | 130.74 | 124.68 |
| 36 | D | 301 | DD6 | C4-C5-C6 | -3.24 | 122.69 | 127.31 |
| 29 | I | 211 | CLA | O2D-CGD-O1D | -3.24 | 117.51 | 123.84 |
| 37 | N | 302 | PID | CM5-C21-C20 | -3.24 | 118.39 | 122.92 |
| 29 | J | 311 | CLA | CMB-C2B-C1B | -3.23 | 123.49 | 128.46 |
| 36 | h | 202 | DD6 | C21-C20-C15 | -3.23 | 116.84 | 122.26 |
| 32 | f | 801 | BCR | C33-C5-C6 | -3.23 | 120.90 | 124.53 |
| 37 | N | 302 | PID | C12-O4-C10 | 3.23 | 109.33 | 107.65 |
| 29 | H | 310 | CLA | CMB-C2B-C3B | 3.23 | 130.72 | 124.68 |
| 29 | G | 314 | CLA | O2D-CGD-O1D | -3.23 | 117.53 | 123.84 |
| 36 | M | 304 | DD6 | C9-C10-C11 | -3.23 | 122.71 | 127.31 |
| 36 | N | 303 | DD6 | C37-C36-C31 | -3.22 | 119.97 | 124.35 |
| 36 | O | 303 | DD6 | C15-C14-C13 | -3.22 | 119.18 | 125.99 |
| 38 | J | 304 | UIX | C34-C37-C39 | -3.22 | 116.87 | 123.47 |
| 29 | M | 307 | CLA | CMB-C2B-C3B | 3.22 | 130.71 | 124.68 |
| 36 | I | 204 | DD6 | C24-C1-C2 | 3.22 | 123.88 | 118.94 |
| 37 | H | 306 | PID | CM5-C21-C20 | -3.22 | 118.42 | 122.92 |
| 29 | C | 314 | CLA | CMB-C2B-C3B | 3.22 | 130.69 | 124.68 |
| 29 | b | 709 | CLA | CMB-C2B-C3B | 3.21 | 130.69 | 124.68 |
| 29 | a | 802 | CLA | O2D-CGD-O1D | -3.21 | 117.56 | 123.84 |
| 36 | N | 303 | DD6 | C9-C10-C11 | -3.21 | 122.73 | 127.31 |
| 32 | l | 506 | BCR | C20-C21-C22 | -3.21 | 122.73 | 127.31 |
| 36 | I | 206 | DD6 | C4-C5-C6 | -3.21 | 122.73 | 127.31 |
| 29 | F | 310 | CLA | CMB-C2B-C3B | 3.21 | 130.68 | 124.68 |
| 29 | B | 314 | CLA | O2D-CGD-O1D | -3.21 | 117.57 | 123.84 |
| 36 | L | 303 | DD6 | O1-C20-C21 | -3.21 | 111.22 | 115.06 |
| 29 | b | 713 | CLA | CMB-C2B-C1B | -3.21 | 123.54 | 128.46 |
| 29 | b | 716 | CLA | O2D-CGD-O1D | -3.21 | 117.57 | 123.84 |
| 37 | H | 302 | PID | CM5-C21-C20 | -3.21 | 118.43 | 122.92 |
| 36 | B | 305 | DD6 | C37-C36-C31 | -3.20 | 119.99 | 124.35 |
| 29 | a | 829 | CLA | CMB-C2B-C3B | 3.20 | 130.67 | 124.68 |
| 36 | E | 302 | DD6 | C21-C20-C15 | -3.20 | 116.89 | 122.26 |
| 29 | l | 508 | CLA | CMB-C2B-C3B | 3.20 | 130.67 | 124.68 |
| 29 | N | 309 | CLA | CMB-C2B-C3B | 3.20 | 130.67 | 124.68 |
| 36 | K | 205 | DD6 | O1-C20-C19 | -3.20 | 110.98 | 113.38 |
| 37 | C | 307 | PID | CM5-C21-C20 | -3.20 | 118.44 | 122.92 |
| 36 | J | 303 | DD6 | C14-C13-C11 | -3.20 | 120.57 | 125.53 |
| 36 | J | 303 | DD6 | C20-C19-C18 | -3.20 | 106.42 | 112.75 |
| 29 | I | 209 | CLA | CMB-C2B-C3B | 3.20 | 130.66 | 124.68 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | L | 313 | CLA | CMB-C2B-C3B | 3.20 | 130.66 | 124.68 |
| 29 | l | 501 | CLA | CMB-C2B-C3B | 3.20 | 130.66 | 124.68 |
| 30 | a | 832 | PQN | C2M-C2-C3 | -3.19 | 119.19 | 124.40 |
| 29 | K | 214 | CLA | CMB-C2B-C1B | -3.19 | 123.56 | 128.46 |
| 36 | I | 206 | DD6 | C15-C14-C13 | -3.19 | 119.24 | 125.99 |
| 36 | F | 303 | DD6 | C21-C20-C15 | -3.19 | 116.91 | 122.26 |
| 29 | Q | 313 | CLA | CMB-C2B-C1B | -3.19 | 123.56 | 128.46 |
| 39 | T | 310 | KC1 | C3D-CAD-CBD | -3.19 | 103.41 | 107.61 |
| 37 | Q | 301 | PID | CM5-C21-C20 | -3.19 | 118.46 | 122.92 |
| 30 | a | 832 | PQN | C11-C12-C13 | -3.19 | 121.49 | 126.79 |
| 35 | b | 733 | DGD | C1D-C2D-C3D | 3.18 | 116.63 | 110.00 |
| 29 | Q | 315 | CLA | CMB-C2B-C3B | 3.18 | 130.63 | 124.68 |
| 36 | D | 301 | DD6 | C10-C9-C8 | -3.18 | 113.29 | 123.22 |
| 29 | L | 312 | CLA | CMB-C2B-C3B | 3.18 | 130.63 | 124.68 |
| 29 | i | 202 | CLA | CMB-C2B-C3B | 3.18 | 130.63 | 124.68 |
| 29 | C | 314 | CLA | O2D-CGD-O1D | -3.18 | 117.62 | 123.84 |
| 36 | M | 301 | DD6 | O1-C20-C21 | -3.17 | 111.26 | 115.06 |
| 29 | T | 311 | CLA | CMB-C2B-C3B | 3.17 | 130.61 | 124.68 |
| 36 | E | 303 | DD6 | O1-C20-C21 | -3.17 | 111.26 | 115.06 |
| 29 | K | 216 | CLA | O2D-CGD-O1D | -3.17 | 117.64 | 123.84 |
| 29 | a | 826 | CLA | O2D-CGD-O1D | -3.17 | 117.64 | 123.84 |
| 37 | Q | 306 | PID | CM5-C21-C20 | -3.17 | 118.49 | 122.92 |
| 29 | a | 827 | CLA | O2D-CGD-O1D | -3.17 | 117.65 | 123.84 |
| 29 | a | 809 | CLA | O2D-CGD-O1D | -3.17 | 117.65 | 123.84 |
| 29 | l | 504 | CLA | CMB-C2B-C3B | 3.16 | 130.59 | 124.68 |
| 30 | a | 832 | PQN | C14-C13-C15 | 3.16 | 120.59 | 115.27 |
| 29 | j | 104 | CLA | CMB-C2B-C3B | 3.16 | 130.59 | 124.68 |
| 29 | b | 731 | CLA | CMB-C2B-C3B | 3.16 | 130.59 | 124.68 |
| 29 | K | 214 | CLA | O2D-CGD-O1D | -3.16 | 117.66 | 123.84 |
| 29 | a | 829 | CLA | O2D-CGD-O1D | -3.16 | 117.66 | 123.84 |
| 29 | J | 306 | CLA | CMB-C2B-C3B | 3.16 | 130.58 | 124.68 |
| 38 | Q | 305 | UIX | O-C1-C3 | 3.15 | 115.75 | 113.38 |
| 29 | J | 309 | CLA | CMB-C2B-C3B | 3.15 | 130.58 | 124.68 |
| 36 | T | 303 | DD6 | C3-C2-C1 | -3.15 | 122.81 | 127.31 |
| 29 | Q | 310 | CLA | CMB-C2B-C3B | 3.15 | 130.58 | 124.68 |
| 32 | l | 506 | BCR | C23-C24-C25 | -3.15 | 118.35 | 127.20 |
| 29 | D | 314 | CLA | O2D-CGD-O1D | -3.15 | 117.68 | 123.84 |
| 29 | F | 307 | CLA | O2D-CGD-O1D | -3.15 | 117.69 | 123.84 |
| 29 | N | 316 | CLA | CMB-C2B-C3B | 3.15 | 130.56 | 124.68 |
| 29 | C | 311 | CLA | CMB-C2B-C3B | 3.15 | 130.56 | 124.68 |
| 29 | G | 314 | CLA | CMB-C2B-C3B | 3.15 | 130.56 | 124.68 |
| 39 | C | 315 | KC1 | C3D-CAD-CBD | -3.14 | 103.47 | 107.61 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | a | 827 | CLA | CMB-C2B-C1B | -3.14 | 123.63 | 128.46 |
| 29 | D | 316 | CLA | CMB-C2B-C3B | 3.14 | 130.56 | 124.68 |
| 29 | L | 316 | CLA | O2D-CGD-O1D | -3.14 | 117.70 | 123.84 |
| 29 | T | 314 | CLA | O2D-CGD-O1D | -3.14 | 117.70 | 123.84 |
| 29 | I | 214 | CLA | CMB-C2B-C3B | 3.14 | 130.55 | 124.68 |
| 37 | O | 302 | PID | CM5-C21-C20 | -3.14 | 118.53 | 122.92 |
| 29 | b | 705 | CLA | CMB-C2B-C3B | 3.14 | 130.55 | 124.68 |
| 29 | b | 724 | CLA | O2D-CGD-O1D | -3.14 | 117.70 | 123.84 |
| 37 | N | 307 | PID | CM5-C21-C20 | -3.14 | 118.53 | 122.92 |
| 32 | b | 735 | BCR | C33-C5-C6 | -3.14 | 121.00 | 124.53 |
| 39 | O | 312 | KC1 | O1D-CGD-CBD | -3.14 | 118.07 | 124.48 |
| 29 | b | 725 | CLA | CMB-C2B-C1B | -3.14 | 123.64 | 128.46 |
| 29 | b | 717 | CLA | CMB-C2B-C3B | 3.14 | 130.54 | 124.68 |
| 36 | K | 204 | DD6 | C20-C19-C18 | -3.14 | 106.55 | 112.75 |
| 29 | I | 201 | CLA | CMB-C2B-C3B | 3.13 | 130.54 | 124.68 |
| 29 | E | 311 | CLA | O2D-CGD-O1D | -3.13 | 117.71 | 123.84 |
| 36 | N | 303 | DD6 | C3-C2-C1 | -3.13 | 122.84 | 127.31 |
| 29 | K | 212 | CLA | CMB-C2B-C1B | -3.13 | 123.65 | 128.46 |
| 39 | N | 315 | KC1 | C3D-CAD-CBD | -3.13 | 103.48 | 107.61 |
| 29 | A | 209 | CLA | CMB-C2B-C3B | 3.13 | 130.54 | 124.68 |
| 29 | l | 504 | CLA | O2D-CGD-O1D | -3.13 | 117.72 | 123.84 |
| 29 | b | 721 | CLA | CMB-C2B-C1B | -3.13 | 123.65 | 128.46 |
| 29 | G | 312 | CLA | CMB-C2B-C3B | 3.13 | 130.53 | 124.68 |
| 29 | N | 311 | CLA | CMB-C2B-C3B | 3.13 | 130.53 | 124.68 |
| 38 | P | 207 | UIX | C22-C15-C20 | -3.13 | 107.67 | 110.47 |
| 29 | f | 805 | CLA | CMB-C2B-C3B | 3.13 | 130.53 | 124.68 |
| 29 | N | 314 | CLA | O2D-CGD-O1D | -3.12 | 117.73 | 123.84 |
| 37 | C | 302 | PID | CM5-C21-C20 | -3.12 | 118.55 | 122.92 |
| 29 | L | 308 | CLA | CMB-C2B-C3B | 3.12 | 130.52 | 124.68 |
| 29 | P | 210 | CLA | CMB-C2B-C3B | 3.12 | 130.52 | 124.68 |
| 39 | O | 312 | KC1 | O2D-CGD-O1D | -3.12 | 117.73 | 123.84 |
| 37 | P | 203 | PID | CM5-C21-C20 | -3.12 | 118.55 | 122.92 |
| 39 | T | 315 | KC1 | C3D-CAD-CBD | -3.12 | 103.50 | 107.61 |
| 29 | A | 217 | CLA | CMB-C2B-C3B | 3.12 | 130.51 | 124.68 |
| 29 | l | 509 | CLA | O2D-CGD-O1D | -3.12 | 117.74 | 123.84 |
| 36 | K | 206 | DD6 | C4-C5-C6 | -3.12 | 122.86 | 127.31 |
| 29 | M | 313 | CLA | CMB-C2B-C3B | 3.12 | 130.51 | 124.68 |
| 29 | a | 819 | CLA | CMB-C2B-C3B | 3.12 | 130.51 | 124.68 |
| 29 | C | 309 | CLA | CMB-C2B-C3B | 3.11 | 130.50 | 124.68 |
| 36 | B | 303 | DD6 | C33-C34-C35 | -3.11 | 106.04 | 110.30 |
| 32 | a | 838 | BCR | C33-C5-C6 | -3.11 | 121.04 | 124.53 |
| 38 | F | 305 | UIX | C18-O2-C27 | -3.11 | 112.11 | 117.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 36 | m | 101 | DD6 | C3-C4-C5 | -3.11 | 117.11 | 123.47 |
| 29 | b | 708 | CLA | CMB-C2B-C3B | 3.10 | 130.49 | 124.68 |
| 36 | L | 305 | DD6 | O1-C20-C19 | -3.10 | 111.05 | 113.38 |
| 29 | b | 706 | CLA | CMB-C2B-C1B | -3.10 | 123.69 | 128.46 |
| 29 | T | 313 | CLA | CMB-C2B-C3B | 3.10 | 130.48 | 124.68 |
| 29 | O | 309 | CLA | CMB-C2B-C3B | 3.10 | 130.47 | 124.68 |
| 36 | I | 205 | DD6 | C25-C24-C1 | -3.09 | 117.72 | 126.42 |
| 29 | C | 311 | CLA | O2D-CGD-O1D | -3.09 | 117.79 | 123.84 |
| 29 | E | 305 | CLA | O2D-CGD-O1D | -3.09 | 117.79 | 123.84 |
| 29 | b | 714 | CLA | O2D-CGD-O1D | -3.09 | 117.79 | 123.84 |
| 29 | F | 311 | CLA | O2D-CGD-O1D | -3.09 | 117.79 | 123.84 |
| 36 | Q | 302 | DD6 | C15-C14-C13 | -3.09 | 119.45 | 125.99 |
| 36 | I | 206 | DD6 | C9-C10-C11 | -3.09 | 122.90 | 127.31 |
| 37 | F | 304 | PID | C17-C16-C15 | 3.09 | 129.80 | 123.47 |
| 36 | h | 202 | DD6 | C14-C13-C11 | -3.09 | 120.74 | 125.53 |
| 37 | C | 301 | PID | C18-C19-C20 | 3.09 | 129.80 | 123.47 |
| 29 | b | 718 | CLA | O2D-CGD-O1D | -3.09 | 117.80 | 123.84 |
| 29 | J | 311 | CLA | O2D-CGD-O1D | -3.08 | 117.81 | 123.84 |
| 32 | a | 834 | BCR | C3-C4-C5 | -3.08 | 108.57 | 114.08 |
| 37 | H | 306 | PID | C12-O4-C10 | 3.08 | 109.25 | 107.65 |
| 29 | l | 505 | CLA | CMB-C2B-C3B | 3.08 | 130.44 | 124.68 |
| 29 | F | 315 | CLA | O2D-CGD-O1D | -3.08 | 117.81 | 123.84 |
| 29 | l | 509 | CLA | CMB-C2B-C3B | 3.08 | 130.44 | 124.68 |
| 32 | b | 728 | BCR | C33-C5-C4 | 3.08 | 119.53 | 113.62 |
| 29 | K | 208 | CLA | O2D-CGD-O1D | -3.08 | 117.82 | 123.84 |
| 38 | O | 306 | UIX | C16-C20-C15 | 3.08 | 122.75 | 119.70 |
| 29 | L | 310 | CLA | CMB-C2B-C3B | 3.08 | 130.44 | 124.68 |
| 36 | M | 302 | DD6 | C21-C20-C19 | 3.08 | 117.74 | 114.28 |
| 36 | G | 308 | DD6 | C21-C20-C15 | -3.08 | 117.11 | 122.26 |
| 29 | J | 313 | CLA | CMB-C2B-C3B | 3.08 | 130.43 | 124.68 |
| 29 | b | 711 | CLA | O2D-CGD-O1D | -3.08 | 117.83 | 123.84 |
| 29 | M | 315 | CLA | CMB-C2B-C3B | 3.08 | 130.43 | 124.68 |
| 29 | T | 311 | CLA | O2D-CGD-O1D | -3.07 | 117.83 | 123.84 |
| 29 | F | 315 | CLA | CMB-C2B-C3B | 3.07 | 130.43 | 124.68 |
| 36 | D | 301 | DD6 | C37-C36-C31 | -3.07 | 120.17 | 124.35 |
| 39 | E | 312 | KC1 | C3D-CAD-CBD | -3.07 | 103.56 | 107.61 |
| 29 | a | 824 | CLA | CMB-C2B-C3B | 3.07 | 130.42 | 124.68 |
| 29 | l | 502 | CLA | O2D-CGD-O1D | -3.07 | 117.84 | 123.84 |
| 36 | L | 303 | DD6 | C15-C14-C13 | -3.07 | 119.51 | 125.99 |
| 37 | H | 301 | PID | C18-C19-C20 | 3.07 | 129.76 | 123.47 |
| 36 | J | 301 | DD6 | C37-C36-C35 | 3.07 | 120.04 | 114.36 |
| 29 | L | 307 | CLA | CMB-C2B-C3B | 3.07 | 130.41 | 124.68 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 37 | C | 305 | PID | CM4-C14-C15 | -3.06 | 118.63 | 122.92 |
| 36 | B | 319 | DD6 | C-C1-C2 | -3.06 | 118.63 | 122.92 |
| 29 | B | 311 | CLA | CMB-C2B-C3B | 3.06 | 130.41 | 124.68 |
| 36 | A | 204 | DD6 | C9-C10-C11 | -3.06 | 122.94 | 127.31 |
| 29 | P | 217 | CLA | CMB-C2B-C3B | 3.06 | 130.41 | 124.68 |
| 29 | a | 806 | CLA | O2D-CGD-O1D | -3.06 | 117.86 | 123.84 |
| 29 | l | 503 | CLA | O2D-CGD-O1D | -3.06 | 117.86 | 123.84 |
| 29 | P | 215 | CLA | CMB-C2B-C3B | 3.06 | 130.40 | 124.68 |
| 29 | Q | 312 | CLA | O2D-CGD-O1D | -3.06 | 117.86 | 123.84 |
| 29 | a | 821 | CLA | CMB-C2B-C3B | 3.05 | 130.39 | 124.68 |
| 29 | b | 715 | CLA | O2D-CGD-O1D | -3.05 | 117.87 | 123.84 |
| 36 | h | 202 | DD6 | C28-C27-C29 | 3.05 | 122.89 | 116.84 |
| 29 | G | 313 | CLA | O2D-CGD-O1D | -3.05 | 117.87 | 123.84 |
| 29 | E | 306 | CLA | O2D-CGD-O1D | -3.05 | 117.87 | 123.84 |
| 29 | D | 313 | CLA | CMB-C2B-C3B | 3.05 | 130.38 | 124.68 |
| 29 | H | 308 | CLA | CMB-C2B-C3B | 3.05 | 130.38 | 124.68 |
| 37 | D | 306 | PID | CM5-C21-C20 | -3.05 | 118.65 | 122.92 |
| 36 | L | 301 | DD6 | C14-C13-C11 | -3.05 | 120.80 | 125.53 |
| 29 | a | 815 | CLA | O2D-CGD-O1D | -3.05 | 117.88 | 123.84 |
| 29 | J | 307 | CLA | CMB-C2B-C3B | 3.05 | 130.38 | 124.68 |
| 29 | b | 719 | CLA | O2D-CGD-O1D | -3.05 | 117.88 | 123.84 |
| 29 | I | 201 | CLA | O2D-CGD-O1D | -3.05 | 117.88 | 123.84 |
| 29 | P | 215 | CLA | CHB-C4A-NA | 3.05 | 128.72 | 124.51 |
| 32 | m | 103 | BCR | C23-C24-C25 | -3.05 | 118.65 | 127.20 |
| 29 | f | 802 | CLA | CMB-C2B-C3B | 3.05 | 130.38 | 124.68 |
| 29 | f | 803 | CLA | CMB-C2B-C3B | 3.05 | 130.38 | 124.68 |
| 32 | a | 834 | BCR | C28-C27-C26 | -3.04 | 108.64 | 114.08 |
| 29 | b | 708 | CLA | O2D-CGD-O1D | -3.04 | 117.89 | 123.84 |
| 32 | a | 835 | BCR | C38-C26-C25 | -3.04 | 121.11 | 124.53 |
| 37 | N | 301 | PID | C18-C19-C20 | 3.04 | 129.71 | 123.47 |
| 29 | M | 306 | CLA | O2D-CGD-O1D | -3.04 | 117.89 | 123.84 |
| 29 | b | 726 | CLA | O2D-CGD-O1D | -3.04 | 117.89 | 123.84 |
| 29 | l | 503 | CLA | CMB-C2B-C3B | 3.04 | 130.36 | 124.68 |
| 32 | m | 103 | BCR | C30-C25-C26 | -3.04 | 118.33 | 122.61 |
| 29 | T | 316 | CLA | CMB-C2B-C3B | 3.04 | 130.36 | 124.68 |
| 29 | K | 207 | CLA | O2D-CGD-O1D | -3.04 | 117.90 | 123.84 |
| 37 | D | 307 | PID | CM5-C21-C20 | -3.03 | 118.67 | 122.92 |
| 29 | b | 702 | CLA | O2D-CGD-O1D | -3.03 | 117.91 | 123.84 |
| 29 | a | 814 | CLA | CMB-C2B-C3B | 3.03 | 130.35 | 124.68 |
| 29 | b | 710 | CLA | CMB-C2B-C3B | 3.03 | 130.35 | 124.68 |
| 29 | B | 306 | CLA | O2D-CGD-O1D | -3.03 | 117.91 | 123.84 |
| 29 | E | 308 | CLA | CMB-C2B-C3B | 3.03 | 130.35 | 124.68 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | a | 816 | CLA | CMB-C2B-C3B | 3.03 | 130.35 | 124.68 |
| 36 | G | 307 | DD6 | C37-C36-C31 | -3.03 | 120.23 | 124.35 |
| 29 | a | 825 | CLA | CMB-C2B-C3B | 3.03 | 130.34 | 124.68 |
| 32 | l | 507 | BCR | C2-C1-C6 | 3.03 | 115.14 | 110.48 |
| 36 | D | 304 | DD6 | C-C1-C2 | -3.03 | 118.68 | 122.92 |
| 29 | b | 712 | CLA | O2D-CGD-O1D | -3.03 | 117.92 | 123.84 |
| 39 | N | 312 | KC1 | CHC-C4B-C3B | -3.02 | 120.08 | 125.26 |
| 29 | b | 724 | CLA | CMB-C2B-C3B | 3.02 | 130.34 | 124.68 |
| 29 | O | 309 | CLA | O2D-CGD-O1D | -3.02 | 117.93 | 123.84 |
| 29 | B | 308 | CLA | O2D-CGD-O1D | -3.02 | 117.93 | 123.84 |
| 29 | N | 309 | CLA | O2D-CGD-O1D | -3.02 | 117.93 | 123.84 |
| 29 | b | 726 | CLA | CMB-C2B-C3B | 3.02 | 130.33 | 124.68 |
| 37 | C | 302 | PID | C17-C16-C15 | 3.02 | 129.66 | 123.47 |
| 29 | J | 313 | CLA | O2D-CGD-O1D | -3.02 | 117.93 | 123.84 |
| 37 | N | 305 | PID | CM5-C21-C20 | -3.02 | 118.69 | 122.92 |
| 36 | L | 305 | DD6 | C9-C8-C6 | -3.02 | 117.93 | 126.42 |
| 36 | M | 301 | DD6 | C9-C10-C11 | -3.02 | 123.00 | 127.31 |
| 29 | f | 803 | CLA | O2D-CGD-O1D | -3.02 | 117.93 | 123.84 |
| 36 | D | 301 | DD6 | C-C1-C2 | -3.02 | 118.69 | 122.92 |
| 38 | T | 306 | UIX | C16-C20-C15 | 3.02 | 122.69 | 119.70 |
| 36 | Q | 302 | DD6 | C33-C34-C35 | -3.02 | 106.17 | 110.30 |
| 29 | F | 316 | CLA | CMB-C2B-C3B | 3.02 | 130.32 | 124.68 |
| 29 | b | 712 | CLA | CMB-C2B-C3B | 3.01 | 130.32 | 124.68 |
| 29 | D | 308 | CLA | CMB-C2B-C3B | 3.01 | 130.32 | 124.68 |
| 29 | O | 316 | CLA | O2D-CGD-O1D | -3.01 | 117.94 | 123.84 |
| 37 | G | 309 | PID | CM5-C21-C20 | -3.01 | 118.70 | 122.92 |
| 29 | a | 813 | CLA | O2D-CGD-O1D | -3.01 | 117.95 | 123.84 |
| 36 | h | 202 | DD6 | C24-C1-C2 | 3.01 | 123.56 | 118.94 |
| 29 | h | 201 | CLA | O2D-CGD-O1D | -3.01 | 117.95 | 123.84 |
| 29 | P | 217 | CLA | O2D-CGD-O1D | -3.01 | 117.95 | 123.84 |
| 29 | K | 210 | CLA | O2D-CGD-O1D | -3.01 | 117.95 | 123.84 |
| 38 | P | 207 | UIX | C18-O2-C27 | -3.01 | 112.29 | 117.90 |
| 32 | l | 507 | BCR | C15-C16-C17 | -3.01 | 117.32 | 123.47 |
| 37 | T | 304 | PID | C18-C19-C20 | 3.00 | 129.63 | 123.47 |
| 37 | P | 206 | PID | C26-C25-C24 | 3.00 | 112.13 | 109.21 |
| 32 | f | 801 | BCR | C3-C4-C5 | -3.00 | 108.72 | 114.08 |
| 32 | i | 204 | BCR | C28-C27-C26 | -3.00 | 108.72 | 114.08 |
| 29 | l | 508 | CLA | O2D-CGD-O1D | -3.00 | 117.97 | 123.84 |
| 29 | K | 213 | CLA | O2D-CGD-O1D | -3.00 | 117.97 | 123.84 |
| 29 | f | 802 | CLA | O2D-CGD-O1D | -3.00 | 117.97 | 123.84 |
| 29 | H | 315 | CLA | O2D-CGD-O1D | -3.00 | 117.97 | 123.84 |
| 29 | b | 714 | CLA | CMB-C2B-C3B | 3.00 | 130.29 | 124.68 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | G | 312 | CLA | O2D-CGD-O1D | -3.00 | 117.97 | 123.84 |
| 29 | b | 723 | CLA | O2D-CGD-O1D | -3.00 | 117.97 | 123.84 |
| 29 | b | 731 | CLA | O2D-CGD-O1D | -3.00 | 117.98 | 123.84 |
| 29 | T | 309 | CLA | CMB-C2B-C3B | 3.00 | 130.29 | 124.68 |
| 29 | F | 312 | CLA | CMB-C2B-C3B | 3.00 | 130.29 | 124.68 |
| 38 | Q | 305 | UIX | C14-C23-C26 | -3.00 | 118.00 | 126.42 |
| 36 | G | 305 | DD6 | C25-C26-C27 | -3.00 | 117.88 | 126.58 |
| 29 | b | 703 | CLA | O2D-CGD-O1D | -3.00 | 117.98 | 123.84 |
| 29 | P | 214 | CLA | O2D-CGD-O1D | -2.99 | 117.98 | 123.84 |
| 36 | O | 303 | DD6 | C37-C36-C31 | -2.99 | 120.28 | 124.35 |
| 35 | j | 106 | DGD | O1G-C1A-C2A | 2.99 | 121.30 | 111.91 |
| 32 | l | 507 | BCR | C7-C8-C9 | -2.99 | 121.71 | 126.23 |
| 37 | T | 317 | PID | C16-C15-C14 | -2.99 | 123.04 | 127.31 |
| 29 | M | 311 | CLA | CMB-C2B-C3B | 2.99 | 130.28 | 124.68 |
| 39 | G | 318 | KC1 | CHC-C4B-C3B | -2.99 | 120.14 | 125.26 |
| 29 | P | 212 | CLA | O2D-CGD-O1D | -2.99 | 117.99 | 123.84 |
| 29 | a | 805 | CLA | O2D-CGD-O1D | -2.99 | 117.99 | 123.84 |
| 29 | a | 808 | CLA | CMB-C2B-C3B | 2.99 | 130.27 | 124.68 |
| 29 | b | 720 | CLA | CMB-C2B-C3B | 2.99 | 130.27 | 124.68 |
| 36 | G | 307 | DD6 | C15-C14-C13 | -2.99 | 119.68 | 125.99 |
| 36 | J | 301 | DD6 | C14-C13-C11 | -2.99 | 120.90 | 125.53 |
| 39 | T | 312 | KC1 | CHC-C4B-C3B | -2.99 | 120.15 | 125.26 |
| 29 | Q | 315 | CLA | O2D-CGD-O1D | -2.99 | 118.00 | 123.84 |
| 32 | m | 103 | BCR | C28-C27-C26 | -2.99 | 108.75 | 114.08 |
| 29 | a | 819 | CLA | O2D-CGD-O1D | -2.98 | 118.00 | 123.84 |
| 29 | A | 207 | CLA | O2D-CGD-O1D | -2.98 | 118.00 | 123.84 |
| 29 | Q | 307 | CLA | O2D-CGD-O1D | -2.98 | 118.00 | 123.84 |
| 36 | L | 303 | DD6 | C10-C9-C8 | -2.98 | 113.91 | 123.22 |
| 38 | N | 306 | UIX | C22-C15-C20 | -2.98 | 107.80 | 110.47 |
| 36 | M | 303 | DD6 | C21-C20-C19 | 2.98 | 117.64 | 114.28 |
| 36 | I | 202 | DD6 | C9-C10-C11 | -2.98 | 123.05 | 127.31 |
| 29 | C | 316 | CLA | CMB-C2B-C3B | 2.98 | 130.26 | 124.68 |
| 36 | h | 202 | DD6 | C33-C34-C35 | -2.98 | 106.22 | 110.30 |
| 37 | F | 304 | PID | O1-C1-C2 | 2.98 | 115.62 | 113.38 |
| 36 | E | 302 | DD6 | C4-C3-C2 | -2.98 | 117.37 | 123.47 |
| 29 | F | 307 | CLA | CMB-C2B-C3B | 2.98 | 130.25 | 124.68 |
| 29 | Q | 308 | CLA | C1-C2-C3 | -2.98 | 120.89 | 126.04 |
| 29 | a | 812 | CLA | O2D-CGD-O1D | -2.98 | 118.02 | 123.84 |
| 29 | G | 301 | CLA | O2D-CGD-O1D | -2.98 | 118.02 | 123.84 |
| 29 | b | 702 | CLA | CMB-C2B-C3B | 2.97 | 130.24 | 124.68 |
| 29 | G | 304 | CLA | O2D-CGD-O1D | -2.97 | 118.02 | 123.84 |
| 37 | H | 301 | PID | CM5-C21-C20 | -2.97 | 118.76 | 122.92 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 37 | C | 301 | PID | CM5-C21-C20 | -2.97 | 118.76 | 122.92 |
| 39 | H | 311 | KC1 | CHC-C4B-C3B | -2.97 | 120.18 | 125.26 |
| 29 | G | 319 | CLA | O2D-CGD-O1D | -2.97 | 118.03 | 123.84 |
| 29 | A | 209 | CLA | O2D-CGD-O1D | -2.97 | 118.03 | 123.84 |
| 29 | K | 212 | CLA | O2D-CGD-O1D | -2.97 | 118.03 | 123.84 |
| 29 | B | 312 | CLA | O2D-CGD-O1D | -2.97 | 118.04 | 123.84 |
| 29 | a | 803 | CLA | C1B-CHB-C4A | -2.97 | 124.24 | 130.12 |
| 29 | a | 810 | CLA | O2D-CGD-O1D | -2.97 | 118.04 | 123.84 |
| 36 | A | 202 | DD6 | C33-C34-C35 | -2.97 | 106.25 | 110.30 |
| 36 | D | 304 | DD6 | C20-C19-C18 | -2.96 | 106.88 | 112.75 |
| 38 | A | 203 | UIX | C18-O2-C27 | -2.96 | 112.37 | 117.90 |
| 32 | b | 735 | BCR | C29-C30-C25 | 2.96 | 115.04 | 110.48 |
| 29 | A | 208 | CLA | O2D-CGD-O1D | -2.96 | 118.05 | 123.84 |
| 36 | F | 301 | DD6 | C15-C14-C13 | -2.96 | 119.74 | 125.99 |
| 29 | b | 703 | CLA | C1B-CHB-C4A | -2.96 | 124.26 | 130.12 |
| 39 | C | 312 | KC1 | CHC-C4B-C3B | -2.96 | 120.20 | 125.26 |
| 29 | B | 309 | CLA | O2D-CGD-O1D | -2.96 | 118.06 | 123.84 |
| 35 | B | 318 | DGD | C3D-C4D-C5D | 2.96 | 115.51 | 110.24 |
| 29 | M | 306 | CLA | CMB-C2B-C3B | 2.96 | 130.21 | 124.68 |
| 37 | N | 301 | PID | CM5-C21-C20 | -2.96 | 118.78 | 122.92 |
| 38 | N | 306 | UIX | C16-C20-C15 | 2.95 | 122.63 | 119.70 |
| 29 | F | 308 | CLA | CMB-C2B-C3B | 2.95 | 130.20 | 124.68 |
| 37 | H | 304 | PID | C17-C18-C19 | 2.95 | 131.38 | 124.81 |
| 37 | h | 204 | PID | CM5-C21-C20 | -2.95 | 118.79 | 122.92 |
| 39 | H | 314 | KC1 | C3D-CAD-CBD | -2.95 | 103.72 | 107.61 |
| 29 | G | 302 | CLA | O2D-CGD-O1D | -2.95 | 118.07 | 123.84 |
| 29 | Q | 308 | CLA | O2D-CGD-O1D | -2.95 | 118.07 | 123.84 |
| 29 | M | 313 | CLA | O2D-CGD-O1D | -2.95 | 118.07 | 123.84 |
| 29 | E | 308 | CLA | O2D-CGD-O1D | -2.95 | 118.08 | 123.84 |
| 29 | I | 207 | CLA | O2D-CGD-O1D | -2.95 | 118.08 | 123.84 |
| 29 | A | 216 | CLA | CMB-C2B-C3B | 2.95 | 130.19 | 124.68 |
| 29 | b | 705 | CLA | CAC-C3C-C4C | 2.95 | 128.63 | 124.81 |
| 36 | G | 305 | DD6 | C20-C19-C18 | -2.95 | 106.92 | 112.75 |
| 29 | B | 315 | CLA | O2D-CGD-O1D | -2.95 | 118.08 | 123.84 |
| 36 | Q | 302 | DD6 | O1-C20-C19 | -2.94 | 111.17 | 113.38 |
| 29 | J | 310 | CLA | O2D-CGD-O1D | -2.94 | 118.08 | 123.84 |
| 36 | B | 305 | DD6 | C4-C5-C6 | -2.94 | 123.11 | 127.31 |
| 29 | G | 311 | CLA | O2D-CGD-O1D | -2.94 | 118.08 | 123.84 |
| 29 | a | 822 | CLA | CMB-C2B-C3B | 2.94 | 130.19 | 124.68 |
| 39 | Q | 314 | KC1 | CHC-C4B-C3B | -2.94 | 120.22 | 125.26 |
| 29 | I | 217 | CLA | O2D-CGD-O1D | -2.94 | 118.08 | 123.84 |
| 36 | J | 303 | DD6 | C25-C26-C27 | -2.94 | 118.03 | 126.58 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | G | 317 | CLA | O2D-CGD-O1D | -2.94 | 118.09 | 123.84 |
| 36 | F | 301 | DD6 | C4-C5-C6 | -2.94 | 123.11 | 127.31 |
| 29 | H | 313 | CLA | CMB-C2B-C3B | 2.94 | 130.18 | 124.68 |
| 38 | B | 304 | UIX | C16-C20-C15 | 2.94 | 122.61 | 119.70 |
| 29 | B | 310 | CLA | O2D-CGD-O1D | -2.94 | 118.09 | 123.84 |
| 39 | F | 309 | KC1 | CHC-C4B-C3B | -2.94 | 120.23 | 125.26 |
| 29 | a | 818 | CLA | O2D-CGD-O1D | -2.94 | 118.09 | 123.84 |
| 29 | Q | 313 | CLA | O2D-CGD-O1D | -2.94 | 118.10 | 123.84 |
| 29 | K | 217 | CLA | O2D-CGD-O1D | -2.94 | 118.10 | 123.84 |
| 29 | I | 210 | CLA | O2D-CGD-O1D | -2.93 | 118.10 | 123.84 |
| 29 | T | 316 | CLA | O2D-CGD-O1D | -2.93 | 118.10 | 123.84 |
| 39 | P | 216 | KC1 | CHC-C4B-C3B | -2.93 | 120.24 | 125.26 |
| 37 | D | 303 | PID | C12-O4-C10 | 2.93 | 109.18 | 107.65 |
| 32 | f | 804 | BCR | C28-C27-C26 | -2.93 | 108.84 | 114.08 |
| 29 | H | 308 | CLA | O2D-CGD-O1D | -2.93 | 118.11 | 123.84 |
| 36 | L | 305 | DD6 | C9-C10-C11 | -2.93 | 123.13 | 127.31 |
| 39 | H | 314 | KC1 | CHC-C4B-C3B | -2.93 | 120.25 | 125.26 |
| 29 | A | 218 | CLA | O2D-CGD-O1D | -2.93 | 118.11 | 123.84 |
| 29 | K | 209 | CLA | O2D-CGD-O1D | -2.93 | 118.11 | 123.84 |
| 36 | K | 204 | DD6 | C12-C11-C10 | -2.93 | 118.82 | 122.92 |
| 38 | O | 306 | UIX | C12-C11-C13 | -2.93 | 118.83 | 122.92 |
| 36 | P | 204 | DD6 | C37-C36-C31 | -2.93 | 120.37 | 124.35 |
| 29 | a | 803 | CLA | O2D-CGD-O1D | -2.92 | 118.12 | 123.84 |
| 29 | G | 304 | CLA | CMB-C2B-C3B | 2.92 | 130.15 | 124.68 |
| 37 | O | 301 | PID | CM5-C21-C20 | -2.92 | 118.83 | 122.92 |
| 39 | L | 306 | KC1 | CHC-C4B-C3B | -2.92 | 120.26 | 125.26 |
| 29 | a | 824 | CLA | O2D-CGD-O1D | -2.92 | 118.13 | 123.84 |
| 36 | I | 204 | DD6 | C12-C11-C10 | -2.92 | 118.83 | 122.92 |
| 39 | Q | 309 | KC1 | C3D-CAD-CBD | -2.92 | 103.76 | 107.61 |
| 36 | K | 204 | DD6 | C25-C24-C1 | -2.92 | 118.21 | 126.42 |
| 36 | I | 202 | DD6 | C37-C36-C35 | 2.92 | 119.76 | 114.36 |
| 32 | i | 204 | BCR | C16-C15-C14 | -2.92 | 117.50 | 123.47 |
| 29 | L | 313 | CLA | O2D-CGD-O1D | -2.92 | 118.14 | 123.84 |
| 32 | a | 835 | BCR | C3-C4-C5 | -2.92 | 108.87 | 114.08 |
| 38 | B | 304 | UIX | C18-O2-C27 | -2.92 | 112.46 | 117.90 |
| 29 | D | 311 | CLA | O2D-CGD-O1D | -2.92 | 118.14 | 123.84 |
| 29 | D | 312 | CLA | O2D-CGD-O1D | -2.92 | 118.14 | 123.84 |
| 39 | P | 211 | KC1 | CHB-C1B-C2B | -2.92 | 119.36 | 125.48 |
| 29 | C | 316 | CLA | O2D-CGD-O1D | -2.91 | 118.14 | 123.84 |
| 36 | L | 305 | DD6 | C21-C20-C15 | -2.91 | 117.38 | 122.26 |
| 39 | E | 307 | KC1 | CHC-C4B-C3B | -2.91 | 120.27 | 125.26 |
| 29 | D | 316 | CLA | O2D-CGD-O1D | -2.91 | 118.14 | 123.84 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 36 | F | 303 | DD6 | C9-C10-C11 | -2.91 | 123.16 | 127.31 |
| 39 | P | 216 | KC1 | C3D-CAD-CBD | -2.91 | 103.77 | 107.61 |
| 29 | L | 310 | CLA | O2D-CGD-O1D | -2.91 | 118.16 | 123.84 |
| 35 | B | 318 | DGD | C2G-O2G-C1B | -2.91 | 110.64 | 117.79 |
| 36 | A | 204 | DD6 | C4-C5-C6 | -2.91 | 123.16 | 127.31 |
| 29 | H | 313 | CLA | O2D-CGD-O1D | -2.91 | 118.16 | 123.84 |
| 29 | Q | 310 | CLA | O2D-CGD-O1D | -2.91 | 118.16 | 123.84 |
| 29 | a | 808 | CLA | O2D-CGD-O1D | -2.90 | 118.16 | 123.84 |
| 29 | E | 310 | CLA | O2D-CGD-O1D | -2.90 | 118.16 | 123.84 |
| 29 | a | 801 | CLA | CMB-C2B-C1B | -2.90 | 124.00 | 128.46 |
| 32 | l | 507 | BCR | C16-C17-C18 | -2.90 | 123.17 | 127.31 |
| 29 | B | 316 | CLA | O2D-CGD-O1D | -2.90 | 118.16 | 123.84 |
| 29 | I | 207 | CLA | CMB-C2B-C3B | 2.90 | 130.11 | 124.68 |
| 36 | I | 205 | DD6 | C7-C6-C5 | -2.90 | 118.86 | 122.92 |
| 37 | P | 206 | PID | CM5-C21-C20 | -2.90 | 118.86 | 122.92 |
| 29 | a | 823 | CLA | C1B-CHB-C4A | -2.90 | 124.37 | 130.12 |
| 37 | N | 304 | PID | CM5-C21-C20 | -2.90 | 118.86 | 122.92 |
| 32 | m | 103 | BCR | C11-C12-C13 | -2.90 | 118.27 | 126.42 |
| 29 | b | 713 | CLA | O2D-CGD-O1D | -2.90 | 118.17 | 123.84 |
| 29 | F | 313 | CLA | CMB-C2B-C3B | 2.90 | 130.10 | 124.68 |
| 32 | m | 103 | BCR | C15-C16-C17 | -2.90 | 117.54 | 123.47 |
| 29 | b | 717 | CLA | O2D-CGD-O1D | -2.90 | 118.17 | 123.84 |
| 29 | P | 212 | CLA | CMB-C2B-C3B | 2.90 | 130.10 | 124.68 |
| 37 | O | 304 | PID | C18-C19-C20 | 2.90 | 129.41 | 123.47 |
| 37 | T | 317 | PID | CM5-C21-C20 | -2.90 | 118.87 | 122.92 |
| 36 | L | 301 | DD6 | C33-C34-C35 | -2.90 | 106.34 | 110.30 |
| 29 | b | 736 | CLA | CMB-C2B-C3B | 2.89 | 130.09 | 124.68 |
| 29 | G | 311 | CLA | CMB-C2B-C3B | 2.89 | 130.09 | 124.68 |
| 29 | a | 820 | CLA | CMB-C2B-C3B | 2.89 | 130.09 | 124.68 |
| 29 | A | 212 | CLA | O2D-CGD-O1D | -2.89 | 118.18 | 123.84 |
| 29 | L | 315 | CLA | O2D-CGD-O1D | -2.89 | 118.18 | 123.84 |
| 29 | C | 313 | CLA | CMB-C2B-C3B | 2.89 | 130.09 | 124.68 |
| 39 | L | 314 | KC1 | CHC-C4B-C3B | -2.89 | 120.31 | 125.26 |
| 29 | N | 316 | CLA | O2D-CGD-O1D | -2.89 | 118.19 | 123.84 |
| 32 | f | 801 | BCR | C36-C18-C17 | -2.89 | 118.88 | 122.92 |
| 29 | b | 720 | CLA | O2D-CGD-O1D | -2.89 | 118.19 | 123.84 |
| 29 | O | 313 | CLA | O2D-CGD-O1D | -2.89 | 118.19 | 123.84 |
| 36 | G | 307 | DD6 | C32-C31-C36 | -2.89 | 118.56 | 122.63 |
| 29 | l | 505 | CLA | O2D-CGD-O1D | -2.89 | 118.20 | 123.84 |
| 29 | a | 837 | CLA | CMB-C2B-C3B | 2.89 | 130.08 | 124.68 |
| 38 | N | 306 | UIX | C1-C3-C5 | -2.88 | 107.04 | 112.75 |
| 29 | b | 707 | CLA | CMB-C2B-C3B | 2.88 | 130.07 | 124.68 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | b | 715 | CLA | CMB-C2B-C3B | 2.88 | 130.07 | 124.68 |
| 34 | j | 102 | LMG | O6-C1-O1 | -2.88 | 103.15 | 109.97 |
| 29 | I | 213 | CLA | CMB-C2B-C3B | 2.88 | 130.07 | 124.68 |
| 29 | K | 208 | CLA | CMB-C2B-C3B | 2.88 | 130.07 | 124.68 |
| 29 | E | 306 | CLA | CMB-C2B-C3B | 2.88 | 130.07 | 124.68 |
| 29 | b | 709 | CLA | O2D-CGD-O1D | -2.88 | 118.21 | 123.84 |
| 29 | E | 313 | CLA | O2D-CGD-O1D | -2.88 | 118.21 | 123.84 |
| 39 | H | 309 | KC1 | CHC-C4B-C3B | -2.88 | 120.33 | 125.26 |
| 38 | E | 304 | UIX | C36-C35-C32 | -2.88 | 123.20 | 127.31 |
| 29 | l | 510 | CLA | O2D-CGD-O1D | -2.88 | 118.21 | 123.84 |
| 29 | E | 309 | CLA | O2D-CGD-O1D | -2.88 | 118.21 | 123.84 |
| 29 | b | 716 | CLA | C1B-CHB-C4A | -2.88 | 124.42 | 130.12 |
| 29 | K | 218 | CLA | CMB-C2B-C3B | 2.88 | 130.06 | 124.68 |
| 38 | T | 306 | UIX | C22-C15-C20 | -2.88 | 107.90 | 110.47 |
| 29 | B | 307 | CLA | O2D-CGD-O1D | -2.88 | 118.21 | 123.84 |
| 29 | I | 213 | CLA | O2D-CGD-O1D | -2.88 | 118.22 | 123.84 |
| 29 | i | 202 | CLA | O2D-CGD-O1D | -2.88 | 118.22 | 123.84 |
| 39 | A | 213 | KC1 | C3D-CAD-CBD | -2.87 | 103.82 | 107.61 |
| 29 | b | 705 | CLA | O2D-CGD-O1D | -2.87 | 118.22 | 123.84 |
| 29 | Q | 312 | CLA | CMB-C2B-C3B | 2.87 | 130.05 | 124.68 |
| 29 | a | 804 | CLA | O2D-CGD-CBD | 2.87 | 116.37 | 111.27 |
| 29 | L | 315 | CLA | CAA-C2A-C3A | -2.87 | 109.40 | 116.10 |
| 35 | j | 106 | DGD | C2G-O2G-C1B | -2.87 | 110.73 | 117.79 |
| 37 | G | 309 | PID | C18-C19-C20 | 2.87 | 129.35 | 123.47 |
| 29 | C | 308 | CLA | O2D-CGD-O1D | -2.87 | 118.23 | 123.84 |
| 29 | F | 308 | CLA | O2D-CGD-O1D | -2.87 | 118.23 | 123.84 |
| 32 | l | 506 | BCR | C11-C10-C9 | -2.87 | 123.22 | 127.31 |
| 29 | J | 309 | CLA | O2D-CGD-O1D | -2.87 | 118.23 | 123.84 |
| 29 | a | 807 | CLA | O2D-CGD-O1D | -2.86 | 118.24 | 123.84 |
| 29 | N | 308 | CLA | O2D-CGD-O1D | -2.86 | 118.24 | 123.84 |
| 39 | M | 312 | KC1 | CHC-C4B-C3B | -2.86 | 120.36 | 125.26 |
| 36 | T | 303 | DD6 | C9-C8-C6 | -2.86 | 118.37 | 126.42 |
| 29 | a | 837 | CLA | O2D-CGD-O1D | -2.86 | 118.24 | 123.84 |
| 37 | P | 202 | PID | C17-C18-C19 | 2.86 | 131.18 | 124.81 |
| 36 | C | 303 | DD6 | C21-C20-C19 | 2.86 | 117.50 | 114.28 |
| 32 | a | 835 | BCR | C33-C5-C4 | 2.86 | 119.11 | 113.62 |
| 38 | F | 305 | UIX | O-C1-C6 | 2.86 | 118.48 | 115.06 |
| 37 | D | 305 | PID | CM5-C21-C20 | -2.86 | 118.92 | 122.92 |
| 37 | O | 307 | PID | CM5-C21-C20 | -2.86 | 118.92 | 122.92 |
| 38 | Q | 305 | UIX | C12-C11-C13 | -2.86 | 118.92 | 122.92 |
| 39 | O | 315 | KC1 | CHC-C4B-C3B | -2.86 | 120.37 | 125.26 |
| 38 | F | 305 | UIX | C34-C37-C39 | -2.86 | 117.62 | 123.47 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 39 | L | 314 | KC1 | C3D-CAD-CBD | -2.85 | 103.85 | 107.61 |
| 36 | I | 205 | DD6 | C24-C1-C2 | 2.85 | 123.32 | 118.94 |
| 38 | C | 306 | UIX | C12-C11-C13 | -2.85 | 118.93 | 122.92 |
| 29 | A | 215 | CLA | O2D-CGD-O1D | -2.85 | 118.26 | 123.84 |
| 36 | E | 303 | DD6 | C10-C9-C8 | -2.85 | 114.32 | 123.22 |
| 37 | G | 303 | PID | C12-O4-C10 | 2.85 | 109.13 | 107.65 |
| 29 | L | 311 | CLA | O2D-CGD-O1D | -2.85 | 118.27 | 123.84 |
| 29 | O | 311 | CLA | O2D-CGD-O1D | -2.85 | 118.27 | 123.84 |
| 32 | b | 729 | BCR | C20-C21-C22 | -2.85 | 123.24 | 127.31 |
| 37 | Q | 304 | PID | C17-C16-C15 | 2.85 | 129.31 | 123.47 |
| 29 | P | 209 | CLA | O2D-CGD-O1D | -2.85 | 118.27 | 123.84 |
| 29 | P | 210 | CLA | O2D-CGD-O1D | -2.85 | 118.27 | 123.84 |
| 36 | J | 303 | DD6 | C24-C1-C2 | 2.85 | 123.31 | 118.94 |
| 29 | a | 816 | CLA | O2D-CGD-O1D | -2.85 | 118.27 | 123.84 |
| 29 | P | 214 | CLA | CMB-C2B-C3B | 2.85 | 130.00 | 124.68 |
| 29 | b | 722 | CLA | O2D-CGD-O1D | -2.85 | 118.27 | 123.84 |
| 29 | L | 312 | CLA | O2D-CGD-O1D | -2.85 | 118.27 | 123.84 |
| 29 | H | 310 | CLA | O2D-CGD-O1D | -2.84 | 118.28 | 123.84 |
| 37 | T | 304 | PID | CM5-C21-C20 | -2.84 | 118.94 | 122.92 |
| 29 | b | 706 | CLA | O2D-CGD-O1D | -2.84 | 118.28 | 123.84 |
| 29 | J | 307 | CLA | O2D-CGD-O1D | -2.84 | 118.28 | 123.84 |
| 29 | P | 217 | CLA | CAA-C2A-C3A | -2.84 | 109.46 | 116.10 |
| 39 | H | 314 | KC1 | CHB-C1B-C2B | -2.84 | 119.52 | 125.48 |
| 39 | F | 314 | KC1 | CHC-C4B-C3B | -2.84 | 120.40 | 125.26 |
| 29 | B | 306 | CLA | CMB-C2B-C3B | 2.84 | 129.99 | 124.68 |
| 29 | A | 210 | CLA | CMB-C2B-C3B | 2.84 | 129.99 | 124.68 |
| 35 | h | 203 | DGD | C2G-O2G-C1B | -2.84 | 110.81 | 117.79 |
| 29 | K | 216 | CLA | CAA-C2A-C3A | -2.84 | 109.48 | 116.10 |
| 29 | a | 826 | CLA | CMB-C2B-C3B | 2.84 | 129.98 | 124.68 |
| 36 | A | 202 | DD6 | C21-C20-C15 | -2.84 | 117.51 | 122.26 |
| 29 | K | 218 | CLA | O2D-CGD-O1D | -2.84 | 118.29 | 123.84 |
| 29 | K | 213 | CLA | CMB-C2B-C3B | 2.83 | 129.98 | 124.68 |
| 36 | F | 301 | DD6 | C37-C36-C35 | 2.83 | 119.60 | 114.36 |
| 29 | L | 317 | CLA | CMB-C2B-C3B | 2.83 | 129.98 | 124.68 |
| 34 | K | 220 | LMG | O6-C1-O1 | -2.83 | 103.27 | 109.97 |
| 36 | L | 301 | DD6 | O1-C20-C19 | -2.83 | 111.26 | 113.38 |
| 29 | M | 308 | CLA | O2D-CGD-O1D | -2.83 | 118.31 | 123.84 |
| 36 | O | 303 | DD6 | C37-C36-C35 | 2.83 | 119.60 | 114.36 |
| 37 | j | 101 | PID | CM5-C21-C20 | -2.83 | 118.96 | 122.92 |
| 38 | A | 203 | UIX | C35-C36-C38 | -2.83 | 114.39 | 123.22 |
| 29 | B | 316 | CLA | CMB-C2B-C3B | 2.83 | 129.97 | 124.68 |
| 29 | H | 312 | CLA | O2D-CGD-O1D | -2.83 | 118.31 | 123.84 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 39 | Q | 311 | KC1 | C4B-CHC-C1C | -2.83 | 119.96 | 126.06 |
| 36 | K | 205 | DD6 | C3-C4-C5 | -2.83 | 117.68 | 123.47 |
| 29 | L | 309 | CLA | O2D-CGD-O1D | -2.83 | 118.31 | 123.84 |
| 38 | B | 304 | UIX | C36-C35-C32 | -2.83 | 123.28 | 127.31 |
| 29 | L | 317 | CLA | O2D-CGD-O1D | -2.82 | 118.31 | 123.84 |
| 39 | G | 318 | KC1 | C3D-CAD-CBD | -2.82 | 103.89 | 107.61 |
| 36 | I | 204 | DD6 | C-C1-C2 | -2.82 | 118.97 | 122.92 |
| 32 | f | 801 | BCR | C7-C8-C9 | -2.82 | 121.97 | 126.23 |
| 29 | a | 810 | CLA | CMB-C2B-C1B | -2.82 | 124.12 | 128.46 |
| 38 | T | 306 | UIX | C14-C23-C26 | -2.82 | 118.49 | 126.42 |
| 29 | D | 313 | CLA | O2D-CGD-O1D | -2.82 | 118.32 | 123.84 |
| 39 | B | 313 | KC1 | CHC-C4B-C3B | -2.82 | 120.43 | 125.26 |
| 36 | A | 204 | DD6 | C25-C26-C27 | -2.82 | 118.39 | 126.58 |
| 29 | a | 818 | CLA | CMB-C2B-C3B | 2.82 | 129.96 | 124.68 |
| 32 | f | 801 | BCR | C28-C27-C26 | -2.82 | 109.04 | 114.08 |
| 29 | b | 725 | CLA | O2D-CGD-O1D | -2.82 | 118.33 | 123.84 |
| 39 | B | 313 | KC1 | C3D-CAD-CBD | -2.82 | 103.89 | 107.61 |
| 36 | I | 202 | DD6 | C25-C26-C27 | -2.82 | 118.40 | 126.58 |
| 39 | T | 315 | KC1 | CHC-C4B-C3B | -2.82 | 120.44 | 125.26 |
| 32 | l | 507 | BCR | C28-C27-C26 | -2.82 | 109.05 | 114.08 |
| 29 | C | 309 | CLA | O2D-CGD-O1D | -2.82 | 118.33 | 123.84 |
| 29 | l | 510 | CLA | CMB-C2B-C1B | -2.82 | 124.14 | 128.46 |
| 29 | H | 307 | CLA | O2D-CGD-O1D | -2.81 | 118.33 | 123.84 |
| 29 | P | 209 | CLA | CMB-C2B-C3B | 2.81 | 129.94 | 124.68 |
| 29 | M | 315 | CLA | O2D-CGD-O1D | -2.81 | 118.34 | 123.84 |
| 29 | T | 308 | CLA | O2D-CGD-O1D | -2.81 | 118.34 | 123.84 |
| 29 | F | 311 | CLA | CMB-C2B-C3B | 2.81 | 129.94 | 124.68 |
| 29 | b | 705 | CLA | CHB-C4A-NA | 2.81 | 128.40 | 124.51 |
| 29 | T | 313 | CLA | O2D-CGD-O1D | -2.81 | 118.34 | 123.84 |
| 29 | E | 315 | CLA | CMB-C2B-C3B | 2.81 | 129.94 | 124.68 |
| 37 | C | 305 | PID | C19-C20-C21 | 2.81 | 131.32 | 127.31 |
| 32 | a | 834 | BCR | C23-C24-C25 | -2.81 | 119.31 | 127.20 |
| 32 | a | 834 | BCR | C38-C26-C27 | 2.81 | 119.02 | 113.62 |
| 32 | b | 728 | BCR | C28-C27-C26 | -2.81 | 109.06 | 114.08 |
| 36 | h | 202 | DD6 | C26-C25-C24 | -2.81 | 114.45 | 123.22 |
| 32 | b | 735 | BCR | C8-C7-C6 | -2.81 | 119.32 | 127.20 |
| 29 | I | 212 | CLA | CMB-C2B-C3B | 2.81 | 129.93 | 124.68 |
| 38 | N | 306 | UIX | C18-O2-C27 | -2.81 | 112.67 | 117.90 |
| 29 | M | 308 | CLA | CMB-C2B-C3B | 2.80 | 129.93 | 124.68 |
| 29 | E | 314 | CLA | O2D-CGD-O1D | -2.80 | 118.36 | 123.84 |
| 36 | B | 319 | DD6 | C32-C33-C34 | -2.80 | 107.31 | 113.64 |
| 29 | J | 305 | CLA | CMB-C2B-C3B | 2.80 | 129.92 | 124.68 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 32 | i | 204 | BCR | C33-C5-C4 | 2.80 | 119.00 | 113.62 |
| 29 | O | 308 | CLA | CMB-C2B-C3B | 2.80 | 129.92 | 124.68 |
| 29 | a | 811 | CLA | O2D-CGD-O1D | -2.80 | 118.36 | 123.84 |
| 37 | O | 301 | PID | C18-C19-C20 | 2.80 | 129.21 | 123.47 |
| 39 | L | 314 | KC1 | CHB-C1B-C2B | -2.80 | 119.61 | 125.48 |
| 29 | a | 823 | CLA | O2D-CGD-O1D | -2.80 | 118.36 | 123.84 |
| 29 | O | 308 | CLA | O2D-CGD-O1D | -2.80 | 118.37 | 123.84 |
| 38 | E | 304 | UIX | C22-C15-C20 | -2.80 | 107.97 | 110.47 |
| 29 | T | 309 | CLA | O2D-CGD-O1D | -2.80 | 118.37 | 123.84 |
| 39 | A | 213 | KC1 | CHC-C4B-C3B | -2.79 | 120.48 | 125.26 |
| 29 | a | 820 | CLA | O2D-CGD-O1D | -2.79 | 118.38 | 123.84 |
| 32 | a | 834 | BCR | C24-C23-C22 | -2.79 | 122.01 | 126.23 |
| 29 | b | 710 | CLA | O2D-CGD-O1D | -2.79 | 118.38 | 123.84 |
| 39 | Q | 309 | KC1 | CHC-C4B-C3B | -2.79 | 120.48 | 125.26 |
| 29 | F | 313 | CLA | CHB-C4A-NA | 2.79 | 128.37 | 124.51 |
| 39 | Q | 311 | KC1 | C3D-CAD-CBD | -2.79 | 103.93 | 107.61 |
| 38 | C | 306 | UIX | C1-C3-C5 | -2.79 | 107.23 | 112.75 |
| 36 | A | 202 | DD6 | C9-C10-C11 | -2.79 | 123.33 | 127.31 |
| 32 | b | 729 | BCR | C10-C11-C12 | -2.79 | 114.51 | 123.22 |
| 36 | B | 305 | DD6 | C9-C10-C11 | -2.79 | 123.33 | 127.31 |
| 29 | D | 308 | CLA | O2D-CGD-O1D | -2.79 | 118.39 | 123.84 |
| 36 | K | 205 | DD6 | C37-C36-C35 | 2.79 | 119.52 | 114.36 |
| 36 | A | 204 | DD6 | C33-C34-C35 | -2.79 | 106.49 | 110.30 |
| 29 | a | 822 | CLA | O2D-CGD-O1D | -2.79 | 118.39 | 123.84 |
| 29 | A | 214 | CLA | CMB-C2B-C3B | 2.79 | 129.89 | 124.68 |
| 39 | O | 310 | KC1 | CHC-C4B-C3B | -2.78 | 120.50 | 125.26 |
| 39 | G | 315 | KC1 | C4B-CHC-C1C | -2.78 | 120.05 | 126.06 |
| 29 | G | 304 | CLA | CHB-C4A-NA | 2.78 | 128.36 | 124.51 |
| 36 | J | 303 | DD6 | C12-C11-C10 | -2.78 | 119.02 | 122.92 |
| 37 | T | 302 | PID | CM5-C21-C20 | -2.78 | 119.02 | 122.92 |
| 39 | Q | 311 | KC1 | CHC-C4B-C3B | -2.78 | 120.50 | 125.26 |
| 29 | M | 314 | CLA | O2D-CGD-O1D | -2.78 | 118.39 | 123.84 |
| 29 | N | 311 | CLA | O2D-CGD-O1D | -2.78 | 118.40 | 123.84 |
| 29 | O | 314 | CLA | O2D-CGD-CBD | 2.78 | 116.21 | 111.27 |
| 37 | D | 303 | PID | CM5-C21-C20 | -2.78 | 119.03 | 122.92 |
| 39 | M | 312 | KC1 | CHB-C1B-C2B | -2.78 | 119.64 | 125.48 |
| 29 | a | 804 | CLA | CMB-C2B-C3B | 2.78 | 129.88 | 124.68 |
| 29 | B | 307 | CLA | CMB-C2B-C3B | 2.78 | 129.88 | 124.68 |
| 39 | N | 310 | KC1 | CHC-C4B-C3B | -2.78 | 120.50 | 125.26 |
| 35 | j | 103 | DGD | O1G-C1A-C2A | 2.78 | 120.63 | 111.91 |
| 29 | a | 811 | CLA | CMB-C2B-C3B | 2.78 | 129.87 | 124.68 |
| 32 | l | 506 | BCR | C33-C5-C6 | -2.77 | 121.41 | 124.53 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 36 | F | 303 | DD6 | C-C1-C2 | -2.77 | 119.04 | 122.92 |
| 29 | A | 211 | CLA | O2D-CGD-O1D | -2.77 | 118.41 | 123.84 |
| 29 | M | 307 | CLA | O2D-CGD-O1D | -2.77 | 118.42 | 123.84 |
| 29 | a | 805 | CLA | CHB-C4A-NA | 2.77 | 128.35 | 124.51 |
| 36 | N | 303 | DD6 | C21-C20-C15 | -2.77 | 117.61 | 122.26 |
| 29 | j | 104 | CLA | O2D-CGD-O1D | -2.77 | 118.42 | 123.84 |
| 39 | A | 213 | KC1 | CHB-C1B-C2B | -2.77 | 119.67 | 125.48 |
| 39 | D | 310 | KC1 | C3D-CAD-CBD | -2.77 | 103.96 | 107.61 |
| 36 | h | 202 | DD6 | C10-C9-C8 | -2.77 | 114.58 | 123.22 |
| 39 | L | 306 | KC1 | C3D-CAD-CBD | -2.77 | 103.96 | 107.61 |
| 29 | b | 701 | CLA | O2D-CGD-O1D | -2.77 | 118.43 | 123.84 |
| 29 | E | 309 | CLA | CMB-C2B-C3B | 2.77 | 129.85 | 124.68 |
| 37 | O | 304 | PID | CM5-C21-C20 | -2.77 | 119.05 | 122.92 |
| 29 | T | 308 | CLA | CMB-C2B-C3B | 2.77 | 129.85 | 124.68 |
| 36 | L | 303 | DD6 | C12-C11-C13 | 2.77 | 122.43 | 118.08 |
| 39 | C | 310 | KC1 | CHC-C4B-C3B | -2.77 | 120.53 | 125.26 |
| 29 | C | 313 | CLA | O2D-CGD-O1D | -2.77 | 118.43 | 123.84 |
| 36 | J | 301 | DD6 | C-C1-C2 | -2.76 | 119.05 | 122.92 |
| 38 | J | 304 | UIX | C7-C10-C11 | -2.76 | 121.24 | 125.53 |
| 29 | a | 813 | CLA | CMB-C2B-C3B | 2.76 | 129.84 | 124.68 |
| 29 | a | 817 | CLA | O2D-CGD-O1D | -2.76 | 118.44 | 123.84 |
| 32 | f | 801 | BCR | C20-C19-C18 | -2.76 | 118.67 | 126.42 |
| 29 | a | 814 | CLA | O2D-CGD-O1D | -2.76 | 118.44 | 123.84 |
| 29 | I | 217 | CLA | CMB-C2B-C3B | 2.76 | 129.84 | 124.68 |
| 35 | h | 203 | DGD | O1G-C1A-C2A | 2.76 | 120.56 | 111.91 |
| 32 | b | 735 | BCR | C38-C26-C25 | -2.76 | 121.43 | 124.53 |
| 39 | O | 312 | KC1 | C4B-CHC-C1C | -2.75 | 120.12 | 126.06 |
| 36 | E | 302 | DD6 | C9-C8-C6 | -2.75 | 118.68 | 126.42 |
| 36 | K | 206 | DD6 | C21-C20-C15 | -2.75 | 117.65 | 122.26 |
| 36 | H | 303 | DD6 | C33-C34-C35 | -2.75 | 106.54 | 110.30 |
| 29 | I | 214 | CLA | CHB-C4A-NA | 2.75 | 128.32 | 124.51 |
| 29 | Q | 307 | CLA | CMB-C2B-C3B | 2.75 | 129.82 | 124.68 |
| 29 | J | 305 | CLA | O2D-CGD-O1D | -2.75 | 118.46 | 123.84 |
| 29 | F | 312 | CLA | O2D-CGD-O1D | -2.75 | 118.46 | 123.84 |
| 39 | E | 312 | KC1 | O1D-CGD-CBD | -2.75 | 118.86 | 124.48 |
| 34 | b | 730 | LMG | O6-C1-O1 | -2.75 | 103.47 | 109.97 |
| 38 | T | 306 | UIX | C12-C11-C13 | -2.75 | 119.08 | 122.92 |
| 29 | a | 828 | CLA | O2D-CGD-O1D | -2.75 | 118.47 | 123.84 |
| 39 | A | 205 | KC1 | CHB-C1B-C2B | -2.75 | 119.72 | 125.48 |
| 36 | F | 301 | DD6 | C25-C26-C27 | -2.74 | 118.61 | 126.58 |
| 37 | P | 205 | PID | CM5-C21-C20 | -2.74 | 119.08 | 122.92 |
| 37 | T | 302 | PID | C18-C17-C16 | 2.74 | 130.92 | 124.81 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | l | 503 | CLA | C1B-CHB-C4A | -2.74 | 124.68 | 130.12 |
| 36 | P | 204 | DD6 | C37-C36-C35 | 2.74 | 119.44 | 114.36 |
| 34 | b | 734 | LMG | O6-C1-O1 | -2.74 | 103.48 | 109.97 |
| 36 | L | 305 | DD6 | C14-C13-C11 | -2.74 | 121.28 | 125.53 |
| 36 | J | 301 | DD6 | C3-C4-C5 | -2.74 | 117.86 | 123.47 |
| 29 | K | 207 | CLA | CMB-C2B-C3B | 2.74 | 129.80 | 124.68 |
| 36 | L | 301 | DD6 | C15-C14-C13 | -2.74 | 120.20 | 125.99 |
| 29 | A | 215 | CLA | CMB-C2B-C3B | 2.74 | 129.80 | 124.68 |
| 29 | D | 309 | CLA | O2D-CGD-O1D | -2.74 | 118.48 | 123.84 |
| 29 | T | 316 | CLA | CAA-C2A-C3A | -2.74 | 109.71 | 116.10 |
| 32 | a | 838 | BCR | C38-C26-C25 | -2.74 | 121.45 | 124.53 |
| 39 | C | 315 | KC1 | CHC-C4B-C3B | -2.74 | 120.58 | 125.26 |
| 29 | A | 206 | CLA | CMB-C2B-C3B | 2.74 | 129.80 | 124.68 |
| 39 | P | 213 | KC1 | O1D-CGD-CBD | -2.73 | 118.89 | 124.48 |
| 29 | a | 828 | CLA | CMB-C2B-C3B | 2.73 | 129.79 | 124.68 |
| 29 | K | 214 | CLA | C1B-CHB-C4A | -2.73 | 124.70 | 130.12 |
| 32 | f | 801 | BCR | C38-C26-C25 | -2.73 | 121.46 | 124.53 |
| 29 | C | 308 | CLA | CMB-C2B-C3B | 2.73 | 129.79 | 124.68 |
| 29 | l | 502 | CLA | CMB-C2B-C3B | 2.73 | 129.79 | 124.68 |
| 39 | P | 213 | KC1 | C4B-CHC-C1C | -2.73 | 120.17 | 126.06 |
| 37 | E | 301 | PID | CM5-C21-C20 | -2.73 | 119.10 | 122.92 |
| 39 | D | 310 | KC1 | CHC-C4B-C3B | -2.73 | 120.59 | 125.26 |
| 36 | K | 206 | DD6 | C25-C24-C1 | -2.73 | 118.75 | 126.42 |
| 39 | Q | 314 | KC1 | CHB-C1B-C2B | -2.73 | 119.75 | 125.48 |
| 39 | I | 215 | KC1 | CHC-C4B-C3B | -2.73 | 120.59 | 125.26 |
| 37 | C | 304 | PID | C18-C19-C20 | 2.73 | 129.06 | 123.47 |
| 29 | A | 216 | CLA | O2D-CGD-O1D | -2.73 | 118.51 | 123.84 |
| 39 | M | 305 | KC1 | O1D-CGD-CBD | -2.73 | 118.91 | 124.48 |
| 29 | F | 313 | CLA | O2D-CGD-O1D | -2.72 | 118.51 | 123.84 |
| 29 | A | 217 | CLA | O2D-CGD-O1D | -2.72 | 118.52 | 123.84 |
| 39 | N | 310 | KC1 | CHB-C1B-C2B | -2.72 | 119.77 | 125.48 |
| 29 | L | 315 | CLA | CMB-C2B-C3B | 2.72 | 129.77 | 124.68 |
| 29 | J | 306 | CLA | C1-C2-C3 | -2.72 | 121.34 | 126.04 |
| 36 | J | 302 | DD6 | C25-C24-C1 | -2.72 | 118.78 | 126.42 |
| 29 | B | 311 | CLA | O2D-CGD-O1D | -2.72 | 118.52 | 123.84 |
| 29 | D | 314 | CLA | CHB-C4A-NA | 2.72 | 128.27 | 124.51 |
| 29 | I | 208 | CLA | CMB-C2B-C3B | 2.72 | 129.76 | 124.68 |
| 39 | O | 312 | KC1 | CHC-C4B-C3B | -2.72 | 120.61 | 125.26 |
| 38 | Q | 305 | UIX | C16-C20-C15 | 2.72 | 122.39 | 119.70 |
| 30 | b | 727 | PQN | C2M-C2-C3 | -2.72 | 119.97 | 124.40 |
| 36 | J | 303 | DD6 | C-C1-C2 | -2.72 | 119.12 | 122.92 |
| 37 | C | 304 | PID | CM5-C21-C20 | -2.72 | 119.12 | 122.92 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 39 | E | 312 | KC1 | CHB-C1B-C2B | -2.72 | 119.78 | 125.48 |
| 38 | O | 306 | UIX | C14-C23-C26 | -2.72 | 118.79 | 126.42 |
| 37 | E | 301 | PID | C17-C18-C19 | 2.71 | 130.85 | 124.81 |
| 37 | F | 304 | PID | CM5-C21-C20 | -2.71 | 119.12 | 122.92 |
| 32 | b | 735 | BCR | C38-C26-C27 | 2.71 | 118.83 | 113.62 |
| 36 | I | 203 | DD6 | C15-C14-C13 | -2.71 | 120.26 | 125.99 |
| 29 | a | 806 | CLA | CHB-C4A-NA | 2.71 | 128.26 | 124.51 |
| 36 | M | 301 | DD6 | C33-C34-C35 | -2.71 | 106.59 | 110.30 |
| 39 | A | 205 | KC1 | CHC-C4B-C3B | -2.71 | 120.62 | 125.26 |
| 32 | m | 103 | BCR | C3-C4-C5 | -2.71 | 109.24 | 114.08 |
| 36 | O | 303 | DD6 | C25-C24-C1 | -2.71 | 118.80 | 126.42 |
| 29 | D | 312 | CLA | CMB-C2B-C3B | 2.71 | 129.74 | 124.68 |
| 36 | B | 302 | DD6 | C14-C13-C11 | -2.71 | 121.33 | 125.53 |
| 34 | K | 201 | LMG | O6-C1-O1 | -2.71 | 103.57 | 109.97 |
| 29 | F | 310 | CLA | CHB-C4A-NA | 2.71 | 128.25 | 124.51 |
| 36 | G | 307 | DD6 | C23-C16-C22 | 2.70 | 111.36 | 107.37 |
| 35 | j | 105 | DGD | C2G-O2G-C1B | -2.70 | 111.13 | 117.79 |
| 29 | b | 719 | CLA | C1B-CHB-C4A | -2.70 | 124.76 | 130.12 |
| 29 | F | 311 | CLA | CHB-C4A-NA | 2.70 | 128.25 | 124.51 |
| 29 | a | 821 | CLA | O2D-CGD-O1D | -2.70 | 118.56 | 123.84 |
| 29 | A | 210 | CLA | O2D-CGD-O1D | -2.70 | 118.56 | 123.84 |
| 36 | K | 203 | DD6 | C21-C20-C15 | -2.70 | 117.73 | 122.26 |
| 37 | D | 306 | PID | C17-C16-C15 | 2.70 | 129.01 | 123.47 |
| 32 | b | 729 | BCR | C23-C24-C25 | -2.70 | 119.62 | 127.20 |
| 37 | H | 304 | PID | CM5-C21-C20 | -2.70 | 119.14 | 122.92 |
| 29 | H | 307 | CLA | CMB-C2B-C3B | 2.70 | 129.72 | 124.68 |
| 36 | A | 204 | DD6 | C21-C20-C15 | -2.70 | 117.74 | 122.26 |
| 29 | I | 214 | CLA | O2D-CGD-O1D | -2.70 | 118.57 | 123.84 |
| 29 | L | 311 | CLA | CMB-C2B-C3B | 2.69 | 129.72 | 124.68 |
| 29 | K | 214 | CLA | CHB-C4A-NA | 2.69 | 128.24 | 124.51 |
| 39 | I | 215 | KC1 | CHB-C1B-C2B | -2.69 | 119.83 | 125.48 |
| 36 | A | 202 | DD6 | O1-C20-C19 | -2.69 | 111.36 | 113.38 |
| 39 | B | 313 | KC1 | CHB-C1B-C2B | -2.69 | 119.83 | 125.48 |
| 36 | B | 305 | DD6 | C33-C34-C35 | -2.69 | 106.62 | 110.30 |
| 36 | G | 306 | DD6 | C3-C4-C5 | -2.69 | 117.96 | 123.47 |
| 39 | O | 315 | KC1 | O1D-CGD-CBD | -2.69 | 118.98 | 124.48 |
| 38 | O | 306 | UIX | C22-C15-C20 | -2.69 | 108.06 | 110.47 |
| 36 | C | 303 | DD6 | C33-C34-C35 | -2.69 | 106.62 | 110.30 |
| 37 | O | 305 | PID | C19-C20-C21 | 2.69 | 131.15 | 127.31 |
| 38 | F | 305 | UIX | C36-C38-C40 | -2.69 | 118.87 | 126.42 |
| 29 | C | 314 | CLA | CHB-C4A-NA | 2.69 | 128.22 | 124.51 |
| 29 | N | 308 | CLA | CMB-C2B-C3B | 2.68 | 129.70 | 124.68 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 30 | b | 727 | PQN | C14-C13-C15 | 2.68 | 119.78 | 115.27 |
| 36 | O | 303 | DD6 | C14-C13-C11 | -2.68 | 121.37 | 125.53 |
| 29 | A | 216 | CLA | CAA-C2A-C3A | -2.68 | 109.85 | 116.10 |
| 29 | J | 313 | CLA | CAA-C2A-C3A | -2.68 | 109.86 | 116.10 |
| 29 | K | 214 | CLA | CMB-C2B-C3B | 2.67 | 129.68 | 124.68 |
| 29 | b | 707 | CLA | CHB-C4A-NA | 2.67 | 128.21 | 124.51 |
| 38 | P | 207 | UIX | C36-C38-C40 | -2.67 | 118.90 | 126.42 |
| 36 | I | 203 | DD6 | C37-C36-C35 | 2.67 | 119.31 | 114.36 |
| 37 | O | 307 | PID | CM3-C5-C4 | -2.67 | 104.34 | 108.98 |
| 29 | a | 809 | CLA | CHB-C4A-NA | 2.67 | 128.21 | 124.51 |
| 29 | a | 817 | CLA | CMB-C2B-C3B | 2.67 | 129.67 | 124.68 |
| 29 | b | 721 | CLA | CMB-C2B-C3B | 2.67 | 129.67 | 124.68 |
| 38 | L | 302 | UIX | C14-C13-C11 | -2.67 | 123.50 | 127.31 |
| 32 | i | 204 | BCR | C20-C19-C18 | -2.67 | 118.92 | 126.42 |
| 29 | G | 304 | CLA | C1-C2-C3 | -2.67 | 121.43 | 126.04 |
| 39 | P | 216 | KC1 | CHB-C1B-C2B | -2.67 | 119.89 | 125.48 |
| 39 | N | 312 | KC1 | CHB-C1B-C2B | -2.67 | 119.89 | 125.48 |
| 36 | J | 301 | DD6 | C9-C8-C6 | -2.67 | 118.93 | 126.42 |
| 29 | i | 201 | CLA | O2D-CGD-O1D | -2.67 | 118.63 | 123.84 |
| 29 | M | 309 | CLA | O2D-CGD-O1D | -2.67 | 118.63 | 123.84 |
| 29 | P | 215 | CLA | O2D-CGD-CBD | 2.66 | 116.00 | 111.27 |
| 29 | E | 314 | CLA | C1B-CHB-C4A | -2.66 | 124.84 | 130.12 |
| 39 | E | 307 | KC1 | CBD-CHA-C1A | 2.66 | 133.85 | 128.88 |
| 29 | D | 309 | CLA | CHB-C4A-NA | 2.66 | 128.20 | 124.51 |
| 39 | N | 315 | KC1 | CHC-C4B-C3B | -2.66 | 120.70 | 125.26 |
| 39 | Q | 309 | KC1 | O1D-CGD-CBD | -2.66 | 119.03 | 124.48 |
| 39 | C | 312 | KC1 | C4B-CHC-C1C | -2.66 | 120.31 | 126.06 |
| 29 | i | 202 | CLA | C1B-CHB-C4A | -2.66 | 124.84 | 130.12 |
| 38 | P | 207 | UIX | C14-C23-C26 | -2.66 | 118.94 | 126.42 |
| 38 | L | 302 | UIX | C36-C35-C32 | -2.66 | 123.51 | 127.31 |
| 39 | C | 310 | KC1 | CHB-C1B-C2B | -2.66 | 119.90 | 125.48 |
| 36 | K | 221 | DD6 | C12-C11-C10 | -2.66 | 119.20 | 122.92 |
| 32 | l | 507 | BCR | C35-C13-C14 | -2.66 | 119.20 | 122.92 |
| 37 | P | 202 | PID | CM5-C21-C20 | -2.66 | 119.20 | 122.92 |
| 29 | J | 311 | CLA | CMB-C2B-C3B | 2.66 | 129.65 | 124.68 |
| 29 | G | 302 | CLA | CHB-C4A-NA | 2.66 | 128.19 | 124.51 |
| 39 | F | 309 | KC1 | CHB-C1B-C2B | -2.66 | 119.91 | 125.48 |
| 39 | H | 309 | KC1 | CHB-C1B-C2B | -2.66 | 119.91 | 125.48 |
| 39 | O | 310 | KC1 | CHB-C1B-C2B | -2.65 | 119.91 | 125.48 |
| 32 | a | 838 | BCR | C20-C19-C18 | -2.65 | 118.96 | 126.42 |
| 29 | F | 316 | CLA | O2D-CGD-O1D | -2.65 | 118.65 | 123.84 |
| 38 | T | 306 | UIX | C36-C38-C40 | -2.65 | 118.96 | 126.42 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 36 | K | 206 | DD6 | C14-C13-C11 | -2.65 | 121.41 | 125.53 |
| 37 | T | 307 | PID | CM2-C5-C4 | -2.65 | 104.37 | 108.98 |
| 36 | F | 303 | DD6 | C4-C3-C2 | -2.65 | 118.04 | 123.47 |
| 36 | M | 302 | DD6 | C3-C4-C5 | -2.65 | 118.04 | 123.47 |
| 36 | B | 319 | DD6 | C4-C3-C2 | -2.65 | 118.04 | 123.47 |
| 36 | T | 303 | DD6 | C33-C34-C35 | -2.65 | 106.68 | 110.30 |
| 29 | a | 801 | CLA | C1B-CHB-C4A | -2.65 | 124.87 | 130.12 |
| 39 | C | 315 | KC1 | C4B-CHC-C1C | -2.65 | 120.35 | 126.06 |
| 39 | P | 213 | KC1 | CHC-C4B-C3B | -2.65 | 120.73 | 125.26 |
| 36 | h | 202 | DD6 | O1-C20-C21 | 2.65 | 118.23 | 115.06 |
| 39 | J | 312 | KC1 | CHB-C1B-C2B | -2.65 | 119.93 | 125.48 |
| 29 | A | 214 | CLA | O2D-CGD-O1D | -2.64 | 118.67 | 123.84 |
| 39 | D | 315 | KC1 | CHC-C4B-C3B | -2.64 | 120.73 | 125.26 |
| 29 | A | 210 | CLA | C1B-CHB-C4A | -2.64 | 124.88 | 130.12 |
| 29 | M | 314 | CLA | C1B-CHB-C4A | -2.64 | 124.88 | 130.12 |
| 36 | H | 303 | DD6 | C9-C8-C6 | -2.64 | 118.99 | 126.42 |
| 29 | F | 315 | CLA | CAA-C2A-C3A | -2.64 | 109.93 | 116.10 |
| 29 | a | 820 | CLA | CHB-C4A-NA | 2.64 | 128.16 | 124.51 |
| 39 | L | 306 | KC1 | CHB-C1B-C2B | -2.64 | 119.94 | 125.48 |
| 29 | L | 307 | CLA | C1-C2-C3 | -2.64 | 122.48 | 126.75 |
| 39 | E | 312 | KC1 | O2D-CGD-O1D | -2.64 | 118.68 | 123.84 |
| 29 | L | 317 | CLA | CHB-C4A-NA | 2.64 | 128.16 | 124.51 |
| 38 | C | 306 | UIX | C22-C15-C20 | -2.64 | 108.11 | 110.47 |
| 38 | B | 304 | UIX | C7-C10-C11 | -2.64 | 121.44 | 125.53 |
| 36 | E | 302 | DD6 | C37-C36-C35 | 2.64 | 119.24 | 114.36 |
| 38 | A | 203 | UIX | C21-C15-C20 | -2.64 | 108.11 | 110.47 |
| 29 | Q | 315 | CLA | CAA-C2A-C3A | -2.64 | 109.95 | 116.10 |
| 35 | G | 320 | DGD | O1G-C1A-C2A | 2.63 | 120.18 | 111.91 |
| 36 | N | 303 | DD6 | C33-C34-C35 | -2.63 | 106.70 | 110.30 |
| 35 | m | 102 | DGD | O1G-C1A-C2A | 2.63 | 120.17 | 111.91 |
| 38 | Q | 305 | UIX | C22-C15-C20 | -2.63 | 108.11 | 110.47 |
| 29 | L | 307 | CLA | CHB-C4A-NA | 2.63 | 128.15 | 124.51 |
| 39 | N | 312 | KC1 | C3D-CAD-CBD | -2.63 | 104.14 | 107.61 |
| 38 | Q | 305 | UIX | C18-O2-C27 | -2.63 | 112.99 | 117.90 |
| 36 | F | 301 | DD6 | C14-C13-C11 | -2.63 | 121.45 | 125.53 |
| 29 | C | 316 | CLA | CAA-C2A-C3A | -2.63 | 109.96 | 116.10 |
| 36 | h | 202 | DD6 | C-C1-C2 | -2.63 | 119.24 | 122.92 |
| 38 | O | 306 | UIX | C36-C38-C40 | -2.63 | 119.03 | 126.42 |
| 39 | P | 211 | KC1 | C3D-CAD-CBD | -2.62 | 104.15 | 107.61 |
| 39 | O | 315 | KC1 | C4B-CHC-C1C | -2.62 | 120.40 | 126.06 |
| 36 | K | 205 | DD6 | C4-C5-C6 | -2.62 | 123.56 | 127.31 |
| 29 | a | 827 | CLA | CMB-C2B-C3B | 2.62 | 129.58 | 124.68 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 36 | C | 303 | DD6 | C9-C8-C6 | -2.62 | 119.05 | 126.42 |
| 36 | A | 204 | DD6 | O1-C20-C19 | -2.62 | 111.41 | 113.38 |
| 36 | L | 301 | DD6 | C21-C20-C15 | -2.62 | 117.87 | 122.26 |
| 29 | b | 736 | CLA | CHB-C4A-NA | 2.62 | 128.13 | 124.51 |
| 29 | Q | 313 | CLA | CMB-C2B-C3B | 2.62 | 129.58 | 124.68 |
| 39 | M | 305 | KC1 | CHC-C4B-C3B | -2.62 | 120.78 | 125.26 |
| 39 | T | 315 | KC1 | CHB-C1B-C2B | -2.62 | 119.99 | 125.48 |
| 29 | E | 308 | CLA | CHB-C4A-NA | 2.61 | 128.13 | 124.51 |
| 29 | M | 310 | CLA | O2D-CGD-O1D | -2.61 | 118.73 | 123.84 |
| 29 | a | 819 | CLA | C1B-CHB-C4A | -2.61 | 124.94 | 130.12 |
| 32 | f | 804 | BCR | C3-C4-C5 | -2.61 | 109.41 | 114.08 |
| 36 | M | 301 | DD6 | C41-C32-C31 | -2.61 | 106.32 | 110.47 |
| 29 | E | 305 | CLA | CMB-C2B-C3B | 2.61 | 129.56 | 124.68 |
| 29 | j | 104 | CLA | CHB-C4A-NA | 2.61 | 128.12 | 124.51 |
| 36 | B | 301 | DD6 | C8-C6-C5 | -2.61 | 119.00 | 124.81 |
| 37 | G | 303 | PID | CM5-C21-C20 | -2.61 | 119.27 | 122.92 |
| 32 | a | 835 | BCR | C28-C27-C26 | -2.61 | 109.42 | 114.08 |
| 39 | K | 215 | KC1 | CHB-C1B-C2B | -2.61 | 120.01 | 125.48 |
| 36 | K | 204 | DD6 | C24-C1-C2 | 2.61 | 122.94 | 118.94 |
| 36 | I | 205 | DD6 | C25-C26-C27 | -2.61 | 119.01 | 126.58 |
| 36 | m | 101 | DD6 | C37-C36-C35 | 2.61 | 119.18 | 114.36 |
| 37 | Q | 303 | PID | CM5-C21-C20 | -2.61 | 119.27 | 122.92 |
| 37 | P | 206 | PID | C29-C24-C25 | 2.61 | 122.28 | 119.70 |
| 39 | O | 310 | KC1 | CBD-CHA-C1A | 2.61 | 133.74 | 128.88 |
| 39 | I | 215 | KC1 | O1D-CGD-CBD | -2.61 | 119.15 | 124.48 |
| 29 | b | 704 | CLA | CMB-C2B-C1B | -2.61 | 124.46 | 128.46 |
| 39 | D | 315 | KC1 | CHB-C1B-C2B | -2.60 | 120.02 | 125.48 |
| 29 | f | 805 | CLA | O2D-CGD-O1D | -2.60 | 118.75 | 123.84 |
| 36 | Q | 302 | DD6 | C14-C13-C11 | -2.60 | 121.49 | 125.53 |
| 36 | I | 203 | DD6 | C25-C24-C1 | -2.60 | 119.11 | 126.42 |
| 39 | G | 318 | KC1 | CHB-C1B-C2B | -2.60 | 120.02 | 125.48 |
| 35 | m | 102 | DGD | C2G-O2G-C1B | -2.60 | 111.39 | 117.79 |
| 29 | E | 309 | CLA | CHB-C4A-NA | 2.60 | 128.11 | 124.51 |
| 32 | a | 838 | BCR | C23-C24-C25 | -2.60 | 119.90 | 127.20 |
| 34 | b | 732 | LMG | C1-C2-C3 | -2.60 | 104.58 | 110.00 |
| 32 | b | 729 | BCR | C39-C30-C25 | -2.60 | 106.08 | 110.30 |
| 29 | A | 206 | CLA | CHB-C4A-NA | 2.60 | 128.10 | 124.51 |
| 36 | B | 301 | DD6 | O1-C20-C21 | -2.59 | 111.95 | 115.06 |
| 36 | D | 301 | DD6 | C24-C1-C2 | 2.59 | 122.92 | 118.94 |
| 29 | B | 314 | CLA | CAA-C2A-C3A | -2.59 | 110.05 | 116.10 |
| 36 | O | 303 | DD6 | C20-C19-C18 | -2.59 | 107.62 | 112.75 |
| 36 | A | 201 | DD6 | C21-C20-C15 | -2.59 | 117.92 | 122.26 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | G | 316 | CLA | CMB-C2B-C3B | 2.59 | 129.53 | 124.68 |
| 39 | C | 315 | KC1 | CHB-C1B-C2B | -2.59 | 120.05 | 125.48 |
| 39 | H | 309 | KC1 | CBD-CHA-C1A | 2.59 | 133.71 | 128.88 |
| 39 | T | 312 | KC1 | C4B-CHC-C1C | -2.59 | 120.47 | 126.06 |
| 29 | i | 201 | CLA | CHB-C4A-NA | 2.59 | 128.09 | 124.51 |
| 29 | N | 316 | CLA | CAA-C2A-C3A | -2.59 | 110.06 | 116.10 |
| 36 | G | 307 | DD6 | C37-C36-C35 | 2.59 | 119.15 | 114.36 |
| 29 | L | 316 | CLA | CMB-C2B-C3B | 2.59 | 129.52 | 124.68 |
| 39 | H | 311 | KC1 | C4B-CHC-C1C | -2.59 | 120.48 | 126.06 |
| 29 | a | 807 | CLA | CHB-C4A-NA | 2.59 | 128.09 | 124.51 |
| 39 | F | 314 | KC1 | CHB-C1B-C2B | -2.59 | 120.06 | 125.48 |
| 29 | F | 316 | CLA | CAA-C2A-C3A | -2.59 | 110.06 | 116.10 |
| 39 | H | 309 | KC1 | O1D-CGD-CBD | -2.59 | 119.19 | 124.48 |
| 29 | K | 207 | CLA | CHB-C4A-NA | 2.59 | 128.09 | 124.51 |
| 29 | D | 316 | CLA | CAA-C2A-C3A | -2.58 | 110.07 | 116.10 |
| 37 | P | 205 | PID | C17-C18-C19 | 2.58 | 130.56 | 124.81 |
| 29 | a | 804 | CLA | CHB-C4A-NA | 2.58 | 128.08 | 124.51 |
| 29 | b | 725 | CLA | CMB-C2B-C3B | 2.58 | 129.51 | 124.68 |
| 29 | I | 211 | CLA | O2D-CGD-CBD | 2.58 | 115.86 | 111.27 |
| 39 | P | 211 | KC1 | CHC-C4B-C3B | -2.58 | 120.84 | 125.26 |
| 29 | G | 312 | CLA | CHB-C4A-NA | 2.58 | 128.08 | 124.51 |
| 29 | M | 306 | CLA | CHB-C4A-NA | 2.58 | 128.08 | 124.51 |
| 39 | O | 310 | KC1 | C2A-C3A-C4A | 2.58 | 108.40 | 106.49 |
| 39 | M | 312 | KC1 | C4B-CHC-C1C | -2.58 | 120.49 | 126.06 |
| 29 | F | 316 | CLA | CHB-C4A-NA | 2.58 | 128.08 | 124.51 |
| 39 | H | 311 | KC1 | CBD-CHA-C1A | 2.58 | 133.69 | 128.88 |
| 29 | b | 701 | CLA | CHB-C4A-NA | 2.58 | 128.07 | 124.51 |
| 36 | J | 303 | DD6 | C37-C36-C35 | 2.58 | 119.13 | 114.36 |
| 38 | E | 304 | UIX | O2-C27-O4 | -2.57 | 117.85 | 122.96 |
| 29 | K | 212 | CLA | C1B-CHB-C4A | -2.57 | 125.02 | 130.12 |
| 29 | G | 319 | CLA | CAA-C2A-C3A | -2.57 | 110.09 | 116.10 |
| 37 | T | 305 | PID | C17-C16-C15 | 2.57 | 128.75 | 123.47 |
| 32 | l | 506 | BCR | C2-C1-C6 | 2.57 | 114.44 | 110.48 |
| 29 | G | 314 | CLA | C1-C2-C3 | -2.57 | 121.59 | 126.04 |
| 36 | L | 305 | DD6 | C25-C26-C27 | -2.57 | 119.11 | 126.58 |
| 36 | J | 301 | DD6 | C12-C11-C10 | -2.57 | 119.32 | 122.92 |
| 36 | O | 303 | DD6 | C32-C31-C36 | -2.57 | 119.00 | 122.63 |
| 36 | M | 302 | DD6 | C14-C13-C11 | -2.57 | 121.54 | 125.53 |
| 38 | E | 304 | UIX | C14-C13-C11 | -2.57 | 123.64 | 127.31 |
| 39 | O | 315 | KC1 | CHB-C1B-C2B | -2.57 | 120.09 | 125.48 |
| 39 | E | 307 | KC1 | C2A-C3A-C4A | 2.57 | 108.39 | 106.49 |
| 36 | K | 206 | DD6 | C25-C26-C27 | -2.57 | 119.13 | 126.58 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 39 | T | 312 | KC1 | CHB-C1B-C2B | -2.57 | 120.10 | 125.48 |
| 39 | F | 314 | KC1 | C4B-CHC-C1C | -2.57 | 120.52 | 126.06 |
| 32 | b | 735 | BCR | C33-C5-C4 | 2.57 | 118.55 | 113.62 |
| 39 | D | 315 | KC1 | C4B-CHC-C1C | -2.57 | 120.52 | 126.06 |
| 39 | O | 312 | KC1 | CHB-C1B-C2B | -2.57 | 120.10 | 125.48 |
| 39 | D | 310 | KC1 | CHB-C1B-C2B | -2.57 | 120.10 | 125.48 |
| 39 | F | 309 | KC1 | C4B-CHC-C1C | -2.56 | 120.53 | 126.06 |
| 39 | M | 305 | KC1 | CHB-C1B-C2B | -2.56 | 120.10 | 125.48 |
| 29 | H | 308 | CLA | CHB-C4A-NA | 2.56 | 128.06 | 124.51 |
| 36 | B | 302 | DD6 | C21-C20-C15 | -2.56 | 117.96 | 122.26 |
| 36 | L | 305 | DD6 | C37-C36-C35 | 2.56 | 119.11 | 114.36 |
| 29 | T | 314 | CLA | C1B-CHB-C4A | -2.56 | 125.04 | 130.12 |
| 29 | A | 215 | CLA | CHB-C4A-NA | 2.56 | 128.06 | 124.51 |
| 39 | E | 307 | KC1 | C4B-CHC-C1C | -2.56 | 120.53 | 126.06 |
| 29 | b | 717 | CLA | C1B-CHB-C4A | -2.56 | 125.04 | 130.12 |
| 38 | L | 302 | UIX | C18-O2-C27 | -2.56 | 113.12 | 117.90 |
| 39 | Q | 309 | KC1 | C2A-C3A-C4A | 2.56 | 108.39 | 106.49 |
| 29 | D | 311 | CLA | CHB-C4A-NA | 2.56 | 128.05 | 124.51 |
| 39 | J | 312 | KC1 | C4B-CHC-C1C | -2.56 | 120.54 | 126.06 |
| 29 | l | 501 | CLA | C1B-CHB-C4A | -2.56 | 125.05 | 130.12 |
| 36 | G | 308 | DD6 | C12-C11-C10 | -2.56 | 119.34 | 122.92 |
| 29 | l | 510 | CLA | C1B-CHB-C4A | -2.56 | 125.05 | 130.12 |
| 29 | G | 314 | CLA | CHB-C4A-NA | 2.56 | 128.05 | 124.51 |
| 29 | K | 217 | CLA | CMB-C2B-C3B | 2.56 | 129.46 | 124.68 |
| 29 | b | 701 | CLA | C1-C2-C3 | -2.56 | 121.62 | 126.04 |
| 29 | a | 828 | CLA | CHB-C4A-NA | 2.56 | 128.05 | 124.51 |
| 39 | N | 310 | KC1 | C3D-CAD-CBD | -2.55 | 104.24 | 107.61 |
| 29 | T | 314 | CLA | CHB-C4A-NA | 2.55 | 128.04 | 124.51 |
| 35 | j | 103 | DGD | O6E-C5E-C4E | 2.55 | 114.33 | 109.69 |
| 29 | G | 301 | CLA | C1B-CHB-C4A | -2.55 | 125.06 | 130.12 |
| 29 | H | 312 | CLA | CHB-C4A-NA | 2.55 | 128.04 | 124.51 |
| 29 | H | 313 | CLA | CHB-C4A-NA | 2.55 | 128.04 | 124.51 |
| 29 | a | 827 | CLA | C1B-CHB-C4A | -2.55 | 125.06 | 130.12 |
| 39 | Q | 311 | KC1 | O1D-CGD-CBD | -2.55 | 119.26 | 124.48 |
| 36 | K | 221 | DD6 | C37-C36-C35 | 2.55 | 119.08 | 114.36 |
| 29 | b | 736 | CLA | C1B-CHB-C4A | -2.55 | 125.06 | 130.12 |
| 29 | I | 214 | CLA | C1B-CHB-C4A | -2.55 | 125.06 | 130.12 |
| 29 | C | 311 | CLA | CHB-C4A-NA | 2.55 | 128.04 | 124.51 |
| 37 | O | 305 | PID | C17-C18-C19 | 2.55 | 130.48 | 124.81 |
| 38 | O | 306 | UIX | C18-O2-C27 | -2.55 | 113.14 | 117.90 |
| 39 | T | 315 | KC1 | C4B-CHC-C1C | -2.55 | 120.56 | 126.06 |
| 29 | b | 725 | CLA | O2A-CGA-O1A | -2.55 | 117.16 | 123.59 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 37 | h | 204 | PID | C17-C16-C15 | 2.55 | 128.70 | 123.47 |
| 37 | P | 203 | PID | C18-C17-C16 | 2.55 | 130.48 | 124.81 |
| 36 | L | 304 | DD6 | C21-C20-C15 | -2.55 | 117.99 | 122.26 |
| 36 | T | 303 | DD6 | C21-C20-C15 | -2.55 | 117.99 | 122.26 |
| 39 | C | 315 | KC1 | O1D-CGD-CBD | -2.55 | 119.28 | 124.48 |
| 39 | F | 309 | KC1 | CBD-CHA-C1A | 2.55 | 133.63 | 128.88 |
| 34 | h | 205 | LMG | O6-C1-O1 | -2.54 | 103.95 | 109.97 |
| 29 | I | 207 | CLA | CHB-C4A-NA | 2.54 | 128.03 | 124.51 |
| 36 | M | 304 | DD6 | C21-C20-C15 | -2.54 | 118.00 | 122.26 |
| 29 | K | 218 | CLA | CHB-C4A-NA | 2.54 | 128.03 | 124.51 |
| 32 | l | 506 | BCR | C10-C11-C12 | -2.54 | 115.28 | 123.22 |
| 29 | H | 308 | CLA | C1-C2-C3 | -2.54 | 121.65 | 126.04 |
| 39 | J | 312 | KC1 | CHC-C4B-C3B | -2.54 | 120.91 | 125.26 |
| 29 | a | 802 | CLA | C1B-CHB-C4A | -2.54 | 125.09 | 130.12 |
| 39 | A | 205 | KC1 | C3D-CAD-CBD | -2.54 | 104.26 | 107.61 |
| 36 | C | 303 | DD6 | O1-C20-C21 | 2.54 | 118.10 | 115.06 |
| 29 | a | 820 | CLA | C1B-CHB-C4A | -2.54 | 125.09 | 130.12 |
| 29 | a | 812 | CLA | CHB-C4A-NA | 2.54 | 128.02 | 124.51 |
| 39 | L | 306 | KC1 | CBD-CHA-C1A | 2.54 | 133.61 | 128.88 |
| 29 | B | 308 | CLA | C1B-CHB-C4A | -2.54 | 125.09 | 130.12 |
| 29 | b | 722 | CLA | CHB-C4A-NA | 2.54 | 128.02 | 124.51 |
| 29 | E | 308 | CLA | CHD-C1D-ND | -2.54 | 122.12 | 124.45 |
| 29 | B | 311 | CLA | CHB-C4A-NA | 2.54 | 128.02 | 124.51 |
| 39 | H | 311 | KC1 | CHB-C1B-C2B | -2.54 | 120.16 | 125.48 |
| 36 | I | 204 | DD6 | C25-C24-C1 | -2.54 | 119.29 | 126.42 |
| 29 | b | 721 | CLA | CHB-C4A-NA | 2.54 | 128.02 | 124.51 |
| 29 | N | 314 | CLA | CHB-C4A-NA | 2.53 | 128.02 | 124.51 |
| 36 | I | 205 | DD6 | C37-C36-C35 | 2.53 | 119.05 | 114.36 |
| 39 | H | 311 | KC1 | O1D-CGD-CBD | -2.53 | 119.30 | 124.48 |
| 36 | N | 303 | DD6 | C14-C13-C11 | -2.53 | 121.60 | 125.53 |
| 29 | C | 314 | CLA | C1B-CHB-C4A | -2.53 | 125.10 | 130.12 |
| 29 | a | 827 | CLA | CHB-C4A-NA | 2.53 | 128.01 | 124.51 |
| 39 | N | 315 | KC1 | CHB-C1B-C2B | -2.53 | 120.17 | 125.48 |
| 29 | b | 718 | CLA | C2D-C1D-ND | -2.53 | 108.24 | 110.10 |
| 35 | j | 105 | DGD | O1G-C1A-C2A | 2.53 | 119.85 | 111.91 |
| 29 | L | 315 | CLA | CHB-C4A-NA | 2.53 | 128.01 | 124.51 |
| 29 | Q | 310 | CLA | CHB-C4A-NA | 2.53 | 128.01 | 124.51 |
| 36 | M | 303 | DD6 | C9-C8-C6 | -2.53 | 119.31 | 126.42 |
| 32 | b | 735 | BCR | C10-C11-C12 | -2.53 | 115.32 | 123.22 |
| 29 | O | 311 | CLA | CHB-C4A-NA | 2.53 | 128.01 | 124.51 |
| 29 | G | 312 | CLA | C1B-CHB-C4A | -2.53 | 125.11 | 130.12 |
| 36 | K | 202 | DD6 | C37-C36-C35 | 2.53 | 119.04 | 114.36 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 36 | C | 303 | DD6 | C37-C36-C35 | 2.53 | 119.04 | 114.36 |
| 36 | H | 303 | DD6 | C14-C13-C11 | -2.53 | 121.61 | 125.53 |
| 32 | b | 729 | BCR | C15-C16-C17 | -2.53 | 118.30 | 123.47 |
| 29 | K | 211 | CLA | C1B-CHB-C4A | -2.53 | 125.11 | 130.12 |
| 29 | h | 201 | CLA | CHB-C4A-NA | 2.53 | 128.00 | 124.51 |
| 29 | T | 311 | CLA | CHB-C4A-NA | 2.53 | 128.00 | 124.51 |
| 29 | b | 705 | CLA | C1B-CHB-C4A | -2.52 | 125.12 | 130.12 |
| 29 | b | 706 | CLA | CHB-C4A-NA | 2.52 | 128.00 | 124.51 |
| 39 | Q | 309 | KC1 | CHB-C1B-C2B | -2.52 | 120.19 | 125.48 |
| 39 | C | 312 | KC1 | CHB-C1B-C2B | -2.52 | 120.19 | 125.48 |
| 29 | b | 713 | CLA | CMB-C2B-C3B | 2.52 | 129.40 | 124.68 |
| 36 | B | 301 | DD6 | C28-C27-C29 | 2.52 | 121.83 | 116.84 |
| 29 | A | 216 | CLA | CHB-C4A-NA | 2.52 | 128.00 | 124.51 |
| 29 | G | 313 | CLA | CHB-C4A-NA | 2.52 | 128.00 | 124.51 |
| 29 | F | 315 | CLA | CHB-C4A-NA | 2.52 | 128.00 | 124.51 |
| 29 | a | 815 | CLA | CHB-C4A-NA | 2.52 | 128.00 | 124.51 |
| 29 | K | 216 | CLA | CHB-C4A-NA | 2.52 | 128.00 | 124.51 |
| 29 | P | 217 | CLA | CHB-C4A-NA | 2.52 | 128.00 | 124.51 |
| 36 | I | 205 | DD6 | C-C1-C2 | -2.52 | 119.39 | 122.92 |
| 38 | P | 207 | UIX | C12-C11-C13 | -2.52 | 119.39 | 122.92 |
| 29 | M | 310 | CLA | CHB-C4A-NA | 2.52 | 128.00 | 124.51 |
| 39 | L | 306 | KC1 | O1D-CGD-CBD | -2.52 | 119.33 | 124.48 |
| 39 | N | 310 | KC1 | C4B-CHC-C1C | -2.52 | 120.63 | 126.06 |
| 29 | A | 212 | CLA | CHB-C4A-NA | 2.52 | 127.99 | 124.51 |
| 37 | P | 202 | PID | C18-C17-C16 | 2.52 | 130.41 | 124.81 |
| 29 | b | 704 | CLA | C1B-CHB-C4A | -2.52 | 125.14 | 130.12 |
| 29 | G | 311 | CLA | CHB-C4A-NA | 2.51 | 127.99 | 124.51 |
| 36 | I | 202 | DD6 | C21-C20-C15 | -2.51 | 118.05 | 122.26 |
| 29 | b | 731 | CLA | CHB-C4A-NA | 2.51 | 127.99 | 124.51 |
| 39 | Q | 309 | KC1 | C4B-CHC-C1C | -2.51 | 120.64 | 126.06 |
| 37 | T | 317 | PID | C15-C14-C13 | 2.51 | 123.88 | 117.00 |
| 29 | M | 311 | CLA | O2D-CGD-CBD | 2.51 | 115.73 | 111.27 |
| 39 | Q | 309 | KC1 | O2D-CGD-O1D | -2.51 | 118.93 | 123.84 |
| 39 | D | 310 | KC1 | C4B-CHC-C1C | -2.51 | 120.64 | 126.06 |
| 29 | T | 313 | CLA | CHB-C4A-NA | 2.51 | 127.98 | 124.51 |
| 29 | b | 715 | CLA | C1B-CHB-C4A | -2.51 | 125.15 | 130.12 |
| 37 | H | 305 | PID | CM5-C21-C20 | -2.51 | 119.41 | 122.92 |
| 29 | Q | 313 | CLA | CHB-C4A-NA | 2.51 | 127.98 | 124.51 |
| 30 | a | 832 | PQN | C2M-C2-C1 | 2.51 | 120.43 | 116.27 |
| 29 | J | 311 | CLA | CHB-C4A-NA | 2.51 | 127.98 | 124.51 |
| 39 | C | 312 | KC1 | O1D-CGD-CBD | -2.51 | 119.35 | 124.48 |
| 29 | G | 319 | CLA | CHB-C4A-NA | 2.51 | 127.98 | 124.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 37 | E | 301 | PID | C19-C20-C21 | 2.51 | 130.89 | 127.31 |
| 39 | M | 305 | KC1 | C4B-CHC-C1C | -2.51 | 120.65 | 126.06 |
| 36 | B | 302 | DD6 | C28-C27-C29 | 2.51 | 121.80 | 116.84 |
| 29 | C | 316 | CLA | CHB-C4A-NA | 2.50 | 127.97 | 124.51 |
| 38 | B | 304 | UIX | C22-C15-C20 | -2.50 | 108.23 | 110.47 |
| 29 | L | 310 | CLA | CHB-C4A-NA | 2.50 | 127.97 | 124.51 |
| 38 | C | 306 | UIX | C18-O2-C27 | -2.50 | 113.23 | 117.90 |
| 36 | K | 221 | DD6 | C-C1-C2 | -2.50 | 119.42 | 122.92 |
| 29 | b | 709 | CLA | CHB-C4A-NA | 2.50 | 127.97 | 124.51 |
| 29 | J | 306 | CLA | CHB-C4A-NA | 2.50 | 127.97 | 124.51 |
| 39 | K | 215 | KC1 | CBD-CHA-C1A | 2.50 | 133.54 | 128.88 |
| 29 | I | 216 | CLA | CHB-C4A-NA | 2.50 | 127.97 | 124.51 |
| 36 | G | 306 | DD6 | C25-C24-C1 | -2.50 | 119.39 | 126.42 |
| 29 | C | 309 | CLA | CHB-C4A-NA | 2.50 | 127.97 | 124.51 |
| 36 | M | 302 | DD6 | C32-C33-C34 | -2.50 | 108.00 | 113.64 |
| 32 | l | 506 | BCR | C38-C26-C27 | 2.50 | 118.41 | 113.62 |
| 29 | l | 502 | CLA | CHB-C4A-NA | 2.50 | 127.96 | 124.51 |
| 29 | B | 312 | CLA | CHB-C4A-NA | 2.50 | 127.96 | 124.51 |
| 29 | P | 210 | CLA | C1B-CHB-C4A | -2.50 | 125.17 | 130.12 |
| 35 | B | 318 | DGD | O1G-C1A-C2A | 2.50 | 119.74 | 111.91 |
| 29 | N | 308 | CLA | CHB-C4A-NA | 2.50 | 127.96 | 124.51 |
| 29 | a | 801 | CLA | CMB-C2B-C3B | 2.50 | 129.35 | 124.68 |
| 29 | l | 501 | CLA | CHB-C4A-NA | 2.49 | 127.96 | 124.51 |
| 29 | B | 309 | CLA | CHB-C4A-NA | 2.49 | 127.96 | 124.51 |
| 32 | f | 804 | BCR | C15-C16-C17 | -2.49 | 118.36 | 123.47 |
| 39 | L | 314 | KC1 | CAC-C3C-C4C | 2.49 | 128.05 | 124.81 |
| 39 | N | 312 | KC1 | C4B-CHC-C1C | -2.49 | 120.68 | 126.06 |
| 36 | m | 101 | DD6 | C25-C24-C1 | -2.49 | 119.41 | 126.42 |
| 29 | l | 503 | CLA | CHB-C4A-NA | 2.49 | 127.96 | 124.51 |
| 29 | T | 316 | CLA | CHB-C4A-NA | 2.49 | 127.96 | 124.51 |
| 36 | M | 304 | DD6 | C25-C26-C27 | -2.49 | 119.34 | 126.58 |
| 38 | C | 306 | UIX | C16-C20-C15 | 2.49 | 122.17 | 119.70 |
| 39 | H | 314 | KC1 | C4B-CHC-C1C | -2.49 | 120.68 | 126.06 |
| 29 | J | 309 | CLA | CHB-C4A-NA | 2.49 | 127.96 | 124.51 |
| 29 | L | 312 | CLA | CHB-C4A-NA | 2.49 | 127.96 | 124.51 |
| 29 | N | 309 | CLA | CHB-C4A-NA | 2.49 | 127.96 | 124.51 |
| 29 | J | 311 | CLA | C1B-CHB-C4A | -2.49 | 125.18 | 130.12 |
| 36 | M | 304 | DD6 | C37-C36-C35 | 2.49 | 118.97 | 114.36 |
| 39 | I | 215 | KC1 | CBD-CHA-C1A | 2.49 | 133.53 | 128.88 |
| 36 | N | 303 | DD6 | O1-C20-C21 | -2.49 | 112.07 | 115.06 |
| 29 | L | 313 | CLA | CHB-C4A-NA | 2.49 | 127.96 | 124.51 |
| 29 | b | 724 | CLA | C1B-CHB-C4A | -2.49 | 125.18 | 130.12 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 39 | G | 315 | KC1 | CHB-C1B-C2B | -2.49 | 120.25 | 125.48 |
| 36 | B | 303 | DD6 | C10-C9-C8 | -2.49 | 115.44 | 123.22 |
| 39 | T | 310 | KC1 | CHB-C1B-C2B | -2.49 | 120.25 | 125.48 |
| 29 | b | 708 | CLA | C1B-CHB-C4A | -2.49 | 125.18 | 130.12 |
| 29 | l | 504 | CLA | CHB-C4A-NA | 2.49 | 127.96 | 124.51 |
| 29 | N | 313 | CLA | CHB-C4A-NA | 2.49 | 127.96 | 124.51 |
| 38 | E | 304 | UIX | C35-C36-C38 | -2.49 | 115.44 | 123.22 |
| 29 | I | 217 | CLA | C1B-CHB-C4A | -2.49 | 125.19 | 130.12 |
| 29 | T | 309 | CLA | CHB-C4A-NA | 2.49 | 127.95 | 124.51 |
| 39 | A | 205 | KC1 | C2A-C3A-C4A | 2.49 | 108.33 | 106.49 |
| 29 | a | 818 | CLA | CHB-C4A-NA | 2.49 | 127.95 | 124.51 |
| 37 | Q | 303 | PID | CM2-C5-C4 | -2.49 | 104.66 | 108.98 |
| 29 | I | 208 | CLA | CHB-C4A-NA | 2.49 | 127.95 | 124.51 |
| 29 | B | 316 | CLA | CHB-C4A-NA | 2.49 | 127.95 | 124.51 |
| 37 | G | 310 | PID | C28-C27-C26 | 2.49 | 114.22 | 109.88 |
| 29 | B | 307 | CLA | CHB-C4A-NA | 2.49 | 127.95 | 124.51 |
| 39 | H | 309 | KC1 | O2D-CGD-O1D | -2.49 | 118.97 | 123.84 |
| 36 | M | 304 | DD6 | C25-C24-C1 | -2.49 | 119.43 | 126.42 |
| 29 | E | 311 | CLA | CHB-C4A-NA | 2.49 | 127.95 | 124.51 |
| 29 | L | 311 | CLA | CHB-C4A-NA | 2.49 | 127.95 | 124.51 |
| 29 | O | 314 | CLA | C1B-CHB-C4A | -2.49 | 125.19 | 130.12 |
| 39 | C | 310 | KC1 | C4B-CHC-C1C | -2.49 | 120.69 | 126.06 |
| 32 | a | 838 | BCR | C38-C26-C27 | 2.49 | 118.39 | 113.62 |
| 36 | K | 221 | DD6 | O1-C20-C21 | 2.49 | 118.03 | 115.06 |
| 37 | D | 303 | PID | C26-C25-C24 | 2.48 | 111.63 | 109.21 |
| 29 | A | 218 | CLA | CHB-C4A-NA | 2.48 | 127.95 | 124.51 |
| 29 | Q | 315 | CLA | CHB-C4A-NA | 2.48 | 127.95 | 124.51 |
| 39 | T | 310 | KC1 | O1D-CGD-CBD | -2.48 | 119.40 | 124.48 |
| 36 | B | 305 | DD6 | C25-C24-C1 | -2.48 | 119.44 | 126.42 |
| 29 | T | 309 | CLA | C1B-CHB-C4A | -2.48 | 125.20 | 130.12 |
| 39 | P | 216 | KC1 | C4B-CHC-C1C | -2.48 | 120.70 | 126.06 |
| 29 | a | 813 | CLA | CHB-C4A-NA | 2.48 | 127.95 | 124.51 |
| 29 | J | 307 | CLA | C1B-CHB-C4A | -2.48 | 125.20 | 130.12 |
| 39 | L | 306 | KC1 | C4B-CHC-C1C | -2.48 | 120.70 | 126.06 |
| 29 | b | 702 | CLA | CHB-C4A-NA | 2.48 | 127.94 | 124.51 |
| 29 | b | 719 | CLA | CHB-C4A-NA | 2.48 | 127.94 | 124.51 |
| 29 | B | 306 | CLA | CHB-C4A-NA | 2.48 | 127.94 | 124.51 |
| 29 | I | 213 | CLA | CHB-C4A-NA | 2.48 | 127.94 | 124.51 |
| 29 | P | 214 | CLA | CHB-C4A-NA | 2.48 | 127.94 | 124.51 |
| 36 | M | 301 | DD6 | C15-C14-C13 | -2.48 | 120.75 | 125.99 |
| 36 | K | 206 | DD6 | C33-C34-C35 | -2.48 | 106.91 | 110.30 |
| 39 | G | 315 | KC1 | O2D-CGD-O1D | -2.48 | 118.99 | 123.84 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 39 | Q | 311 | KC1 | O2D-CGD-O1D | -2.48 | 118.99 | 123.84 |
| 39 | C | 312 | KC1 | CBD-CHA-C1A | 2.48 | 133.51 | 128.88 |
| 29 | K | 213 | CLA | C1B-CHB-C4A | -2.48 | 125.20 | 130.12 |
| 29 | I | 201 | CLA | CHB-C4A-NA | 2.48 | 127.94 | 124.51 |
| 36 | P | 204 | DD6 | C34-C35-C36 | -2.48 | 106.92 | 111.85 |
| 39 | Q | 314 | KC1 | CBD-CHA-C1A | 2.48 | 133.50 | 128.88 |
| 39 | A | 205 | KC1 | O1D-CGD-CBD | -2.48 | 119.41 | 124.48 |
| 36 | B | 305 | DD6 | C21-C20-C15 | -2.48 | 118.11 | 122.26 |
| 36 | J | 303 | DD6 | C13-C11-C10 | 2.48 | 122.74 | 118.94 |
| 29 | i | 203 | CLA | CHB-C4A-NA | 2.48 | 127.94 | 124.51 |
| 36 | M | 303 | DD6 | O1-C20-C21 | 2.48 | 118.03 | 115.06 |
| 29 | E | 306 | CLA | CHB-C4A-NA | 2.48 | 127.94 | 124.51 |
| 36 | G | 306 | DD6 | O1-C20-C21 | -2.48 | 112.09 | 115.06 |
| 29 | a | 825 | CLA | CHB-C4A-NA | 2.48 | 127.94 | 124.51 |
| 29 | B | 314 | CLA | CHB-C4A-NA | 2.47 | 127.93 | 124.51 |
| 39 | T | 310 | KC1 | CHC-C4B-C3B | -2.47 | 121.03 | 125.26 |
| 29 | b | 706 | CLA | CMB-C2B-C3B | 2.47 | 129.30 | 124.68 |
| 39 | E | 312 | KC1 | CHC-C4B-C3B | -2.47 | 121.03 | 125.26 |
| 29 | H | 315 | CLA | C1B-CHB-C4A | -2.47 | 125.22 | 130.12 |
| 29 | M | 313 | CLA | CHB-C4A-NA | 2.47 | 127.93 | 124.51 |
| 29 | O | 308 | CLA | CHB-C4A-NA | 2.47 | 127.93 | 124.51 |
| 39 | A | 205 | KC1 | C4B-CHC-C1C | -2.47 | 120.73 | 126.06 |
| 39 | T | 310 | KC1 | C4B-CHC-C1C | -2.47 | 120.73 | 126.06 |
| 29 | a | 807 | CLA | C1B-CHB-C4A | -2.47 | 125.23 | 130.12 |
| 38 | B | 304 | UIX | O2-C27-O4 | -2.47 | 118.06 | 122.96 |
| 39 | B | 313 | KC1 | O1D-CGD-CBD | -2.47 | 119.44 | 124.48 |
| 29 | P | 209 | CLA | CHB-C4A-NA | 2.46 | 127.92 | 124.51 |
| 29 | J | 306 | CLA | C1B-CHB-C4A | -2.46 | 125.24 | 130.12 |
| 36 | I | 205 | DD6 | C12-C11-C10 | -2.46 | 119.47 | 122.92 |
| 29 | F | 307 | CLA | CHB-C4A-NA | 2.46 | 127.92 | 124.51 |
| 39 | K | 215 | KC1 | C4B-CHC-C1C | -2.46 | 120.75 | 126.06 |
| 34 | b | 734 | LMG | O1-C7-C8 | -2.46 | 104.96 | 110.90 |
| 37 | F | 302 | PID | C17-C18-C19 | 2.46 | 130.29 | 124.81 |
| 29 | H | 310 | CLA | CHB-C4A-NA | 2.46 | 127.92 | 124.51 |
| 29 | b | 720 | CLA | C1B-CHB-C4A | -2.46 | 125.24 | 130.12 |
| 36 | I | 206 | DD6 | C21-C20-C15 | -2.46 | 118.14 | 122.26 |
| 29 | K | 212 | CLA | CMB-C2B-C3B | 2.46 | 129.28 | 124.68 |
| 29 | a | 826 | CLA | CHB-C4A-NA | 2.46 | 127.91 | 124.51 |
| 36 | A | 201 | DD6 | C25-C26-C27 | -2.46 | 119.44 | 126.58 |
| 39 | A | 213 | KC1 | C4B-CHC-C1C | -2.46 | 120.75 | 126.06 |
| 29 | H | 307 | CLA | CHB-C4A-NA | 2.46 | 127.91 | 124.51 |
| 29 | b | 714 | CLA | C1B-CHB-C4A | -2.46 | 125.25 | 130.12 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | L | 311 | CLA | C1B-CHB-C4A | -2.46 | 125.25 | 130.12 |
| 39 | H | 309 | KC1 | C4B-CHC-C1C | -2.46 | 120.76 | 126.06 |
| 37 | j | 101 | PID | C16-C15-C14 | 2.46 | 130.82 | 127.31 |
| 39 | T | 312 | KC1 | O1D-CGD-CBD | -2.46 | 119.46 | 124.48 |
| 36 | D | 304 | DD6 | C33-C34-C35 | -2.46 | 106.94 | 110.30 |
| 29 | a | 817 | CLA | CHB-C4A-NA | 2.46 | 127.91 | 124.51 |
| 29 | A | 209 | CLA | CHB-C4A-NA | 2.46 | 127.91 | 124.51 |
| 29 | l | 501 | CLA | O2D-CGD-CBD | 2.46 | 115.63 | 111.27 |
| 36 | K | 205 | DD6 | C21-C20-C15 | -2.46 | 118.14 | 122.26 |
| 38 | A | 203 | UIX | C1-C3-C5 | -2.45 | 107.89 | 112.75 |
| 29 | a | 816 | CLA | CHB-C4A-NA | 2.45 | 127.91 | 124.51 |
| 29 | E | 313 | CLA | CAA-C2A-C3A | -2.45 | 110.37 | 116.10 |
| 29 | Q | 310 | CLA | C1B-CHB-C4A | -2.45 | 125.26 | 130.12 |
| 39 | E | 307 | KC1 | CHB-C1B-C2B | -2.45 | 120.34 | 125.48 |
| 29 | a | 825 | CLA | O2D-CGD-CBD | 2.45 | 115.63 | 111.27 |
| 29 | P | 215 | CLA | C1B-CHB-C4A | -2.45 | 125.26 | 130.12 |
| 29 | D | 316 | CLA | CHB-C4A-NA | 2.45 | 127.90 | 124.51 |
| 36 | D | 301 | DD6 | C25-C24-C1 | -2.45 | 119.53 | 126.42 |
| 29 | a | 802 | CLA | C1-C2-C3 | -2.45 | 121.80 | 126.04 |
| 32 | a | 835 | BCR | C8-C7-C6 | -2.45 | 120.32 | 127.20 |
| 37 | P | 206 | PID | C6-C7-C8 | -2.45 | 120.81 | 125.99 |
| 29 | D | 308 | CLA | CHB-C4A-NA | 2.45 | 127.90 | 124.51 |
| 29 | E | 315 | CLA | CHB-C4A-NA | 2.45 | 127.90 | 124.51 |
| 29 | b | 713 | CLA | CHB-C4A-NA | 2.45 | 127.90 | 124.51 |
| 29 | b | 714 | CLA | CHB-C4A-NA | 2.45 | 127.90 | 124.51 |
| 29 | j | 104 | CLA | C1B-CHB-C4A | -2.45 | 125.27 | 130.12 |
| 29 | H | 310 | CLA | C1B-CHB-C4A | -2.45 | 125.27 | 130.12 |
| 38 | J | 304 | UIX | C37-C39-C40 | -2.45 | 123.82 | 127.31 |
| 36 | B | 301 | DD6 | C37-C36-C35 | 2.45 | 118.89 | 114.36 |
| 39 | A | 205 | KC1 | C1A-C2A-C3A | -2.45 | 105.17 | 107.11 |
| 39 | N | 315 | KC1 | O1D-CGD-CBD | -2.45 | 119.48 | 124.48 |
| 29 | K | 217 | CLA | CHB-C4A-NA | 2.45 | 127.89 | 124.51 |
| 39 | G | 315 | KC1 | CHC-C4B-C3B | -2.45 | 121.07 | 125.26 |
| 29 | C | 313 | CLA | CHB-C4A-NA | 2.45 | 127.89 | 124.51 |
| 39 | O | 315 | KC1 | C2A-C3A-C4A | 2.45 | 108.30 | 106.49 |
| 39 | C | 310 | KC1 | C2A-C3A-C4A | 2.45 | 108.30 | 106.49 |
| 38 | T | 306 | UIX | C33-C32-C35 | -2.45 | 119.50 | 122.92 |
| 29 | T | 308 | CLA | CHB-C4A-NA | 2.44 | 127.89 | 124.51 |
| 39 | M | 305 | KC1 | O2D-CGD-O1D | -2.44 | 119.06 | 123.84 |
| 36 | P | 204 | DD6 | C21-C20-C15 | -2.44 | 118.17 | 122.26 |
| 32 | b | 729 | BCR | C8-C7-C6 | -2.44 | 120.34 | 127.20 |
| 29 | J | 313 | CLA | CHB-C4A-NA | 2.44 | 127.89 | 124.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 36 | B | 301 | DD6 | C8-C9-C10 | -2.44 | 118.47 | 123.47 |
| 29 | K | 210 | CLA | CHB-C4A-NA | 2.44 | 127.89 | 124.51 |
| 39 | L | 314 | KC1 | CBD-CHA-C1A | 2.44 | 133.44 | 128.88 |
| 39 | T | 312 | KC1 | CBD-CHA-C1A | 2.44 | 133.44 | 128.88 |
| 38 | T | 306 | UIX | C18-O2-C27 | -2.44 | 113.35 | 117.90 |
| 29 | O | 309 | CLA | C1B-CHB-C4A | -2.44 | 125.28 | 130.12 |
| 36 | L | 304 | DD6 | C3-C4-C5 | -2.44 | 118.48 | 123.47 |
| 29 | M | 313 | CLA | CAA-C2A-C3A | -2.44 | 110.41 | 116.10 |
| 36 | P | 204 | DD6 | C9-C8-C6 | -2.44 | 119.56 | 126.42 |
| 32 | b | 735 | BCR | C37-C22-C21 | -2.44 | 119.51 | 122.92 |
| 29 | b | 726 | CLA | C1B-CHB-C4A | -2.44 | 125.29 | 130.12 |
| 29 | l | 508 | CLA | C1B-CHB-C4A | -2.44 | 125.29 | 130.12 |
| 34 | P | 201 | LMG | O3-C3-C2 | -2.44 | 104.71 | 110.35 |
| 29 | K | 209 | CLA | C1B-CHB-C4A | -2.44 | 125.29 | 130.12 |
| 29 | K | 211 | CLA | O2D-CGD-CBD | 2.44 | 115.60 | 111.27 |
| 37 | T | 307 | PID | C17-C16-C15 | 2.43 | 128.46 | 123.47 |
| 39 | N | 315 | KC1 | C4B-CHC-C1C | -2.43 | 120.81 | 126.06 |
| 29 | J | 307 | CLA | CHB-C4A-NA | 2.43 | 127.88 | 124.51 |
| 32 | a | 835 | BCR | C38-C26-C27 | 2.43 | 118.29 | 113.62 |
| 34 | P | 201 | LMG | O6-C1-O1 | -2.43 | 104.21 | 109.97 |
| 29 | J | 310 | CLA | CHB-C4A-NA | 2.43 | 127.88 | 124.51 |
| 29 | l | 508 | CLA | CAA-C2A-C3A | -2.43 | 110.42 | 116.10 |
| 29 | b | 701 | CLA | O2A-CGA-O1A | -2.43 | 117.45 | 123.59 |
| 37 | P | 202 | PID | C17-C16-C15 | 2.43 | 128.46 | 123.47 |
| 29 | b | 711 | CLA | C1B-CHB-C4A | -2.43 | 125.30 | 130.12 |
| 29 | O | 316 | CLA | CAA-C2A-C3A | -2.43 | 110.42 | 116.10 |
| 36 | G | 305 | DD6 | C7-C6-C5 | -2.43 | 119.52 | 122.92 |
| 29 | Q | 312 | CLA | CHB-C4A-NA | 2.43 | 127.87 | 124.51 |
| 39 | I | 215 | KC1 | C3D-CAD-CBD | -2.43 | 104.40 | 107.61 |
| 36 | E | 302 | DD6 | C20-C19-C18 | -2.43 | 107.94 | 112.75 |
| 29 | D | 312 | CLA | CHB-C4A-NA | 2.43 | 127.87 | 124.51 |
| 37 | D | 306 | PID | C6-C7-C8 | -2.43 | 120.86 | 125.99 |
| 29 | O | 316 | CLA | CHB-C4A-NA | 2.43 | 127.87 | 124.51 |
| 36 | K | 221 | DD6 | C24-C1-C2 | 2.43 | 122.67 | 118.94 |
| 36 | E | 302 | DD6 | C33-C34-C35 | -2.43 | 106.98 | 110.30 |
| 29 | K | 211 | CLA | C1-C2-C3 | -2.43 | 121.84 | 126.04 |
| 29 | f | 803 | CLA | CHB-C4A-NA | 2.43 | 127.87 | 124.51 |
| 29 | M | 311 | CLA | CHB-C4A-NA | 2.43 | 127.87 | 124.51 |
| 29 | G | 314 | CLA | O2A-CGA-O1A | -2.43 | 117.47 | 123.59 |
| 36 | G | 308 | DD6 | C13-C11-C10 | 2.43 | 122.67 | 118.94 |
| 39 | B | 313 | KC1 | C4B-CHC-C1C | -2.43 | 120.83 | 126.06 |
| 29 | D | 313 | CLA | CHB-C4A-NA | 2.42 | 127.86 | 124.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | N | 311 | CLA | CHB-C4A-NA | 2.42 | 127.86 | 124.51 |
| 39 | M | 305 | KC1 | C2A-C3A-C4A | 2.42 | 108.28 | 106.49 |
| 39 | P | 213 | KC1 | C3D-CAD-CBD | -2.42 | 104.41 | 107.61 |
| 29 | K | 213 | CLA | CHB-C4A-NA | 2.42 | 127.86 | 124.51 |
| 37 | P | 205 | PID | C18-C19-C20 | 2.42 | 128.44 | 123.47 |
| 29 | a | 822 | CLA | C1B-CHB-C4A | -2.42 | 125.32 | 130.12 |
| 38 | A | 203 | UIX | C37-C34-C30 | -2.42 | 118.51 | 123.47 |
| 39 | P | 211 | KC1 | C2A-C3A-C4A | 2.42 | 108.28 | 106.49 |
| 29 | N | 309 | CLA | C1B-CHB-C4A | -2.42 | 125.32 | 130.12 |
| 29 | l | 510 | CLA | CHB-C4A-NA | 2.42 | 127.86 | 124.51 |
| 39 | P | 211 | KC1 | CBD-CHA-C1A | 2.42 | 133.40 | 128.88 |
| 38 | Q | 305 | UIX | C10-C11-C13 | 2.42 | 122.66 | 118.94 |
| 29 | a | 808 | CLA | CHB-C4A-NA | 2.42 | 127.86 | 124.51 |
| 29 | M | 315 | CLA | CHB-C4A-NA | 2.42 | 127.86 | 124.51 |
| 39 | F | 314 | KC1 | O2D-CGD-O1D | -2.42 | 119.11 | 123.84 |
| 36 | C | 303 | DD6 | C14-C13-C11 | -2.42 | 121.78 | 125.53 |
| 39 | Q | 314 | KC1 | C4B-CHC-C1C | -2.42 | 120.84 | 126.06 |
| 29 | B | 310 | CLA | CHB-C4A-NA | 2.42 | 127.86 | 124.51 |
| 35 | j | 103 | DGD | O6E-C1E-C2E | 2.42 | 115.47 | 110.35 |
| 36 | I | 204 | DD6 | C14-C13-C11 | -2.42 | 121.78 | 125.53 |
| 32 | b | 729 | BCR | C21-C20-C19 | -2.42 | 115.67 | 123.22 |
| 39 | E | 312 | KC1 | C4B-CHC-C1C | -2.42 | 120.84 | 126.06 |
| 36 | I | 204 | DD6 | O1-C20-C15 | -2.42 | 56.96 | 58.96 |
| 37 | P | 203 | PID | CM4-C14-C13 | 2.42 | 124.63 | 119.05 |
| 29 | b | 710 | CLA | C1B-CHB-C4A | -2.42 | 125.33 | 130.12 |
| 36 | M | 304 | DD6 | C4-C5-C6 | -2.42 | 123.86 | 127.31 |
| 39 | G | 318 | KC1 | CBD-CHA-C1A | 2.42 | 133.38 | 128.88 |
| 38 | C | 306 | UIX | C36-C35-C32 | -2.41 | 123.86 | 127.31 |
| 36 | F | 301 | DD6 | C9-C8-C6 | -2.41 | 119.64 | 126.42 |
| 36 | F | 301 | DD6 | C12-C11-C10 | -2.41 | 119.54 | 122.92 |
| 39 | K | 215 | KC1 | C3D-CAD-CBD | -2.41 | 104.43 | 107.61 |
| 39 | F | 314 | KC1 | C2A-C3A-C4A | 2.41 | 108.28 | 106.49 |
| 29 | b | 711 | CLA | CHB-C4A-NA | 2.41 | 127.85 | 124.51 |
| 29 | A | 208 | CLA | CHB-C4A-NA | 2.41 | 127.85 | 124.51 |
| 39 | F | 314 | KC1 | O1D-CGD-CBD | -2.41 | 119.55 | 124.48 |
| 39 | O | 310 | KC1 | C4B-CHC-C1C | -2.41 | 120.86 | 126.06 |
| 39 | I | 215 | KC1 | O2D-CGD-O1D | -2.41 | 119.12 | 123.84 |
| 36 | M | 302 | DD6 | C33-C34-C35 | -2.41 | 107.00 | 110.30 |
| 36 | I | 205 | DD6 | C14-C13-C11 | -2.41 | 121.79 | 125.53 |
| 36 | M | 302 | DD6 | O1-C20-C19 | 2.41 | 115.19 | 113.38 |
| 32 | b | 729 | BCR | C2-C1-C6 | 2.41 | 114.19 | 110.48 |
| 34 | K | 219 | LMG | O6-C1-O1 | -2.41 | 104.27 | 109.97 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 34 | A | 219 | LMG | O1-C7-C8 | -2.41 | 105.08 | 110.90 |
| 39 | G | 318 | KC1 | C4B-CHC-C1C | -2.41 | 120.86 | 126.06 |
| 29 | F | 315 | CLA | O2D-CGD-CBD | 2.41 | 115.55 | 111.27 |
| 29 | l | 502 | CLA | C1B-CHB-C4A | -2.41 | 125.35 | 130.12 |
| 39 | L | 306 | KC1 | C2A-C3A-C4A | 2.41 | 108.27 | 106.49 |
| 29 | a | 805 | CLA | C1B-CHB-C4A | -2.41 | 125.35 | 130.12 |
| 29 | a | 822 | CLA | CHB-C4A-NA | 2.41 | 127.84 | 124.51 |
| 34 | b | 730 | LMG | C40-C39-C38 | -2.41 | 102.21 | 114.42 |
| 37 | H | 306 | PID | C1-C2-C3 | -2.41 | 107.99 | 112.75 |
| 36 | E | 302 | DD6 | C-C1-C2 | -2.41 | 119.55 | 122.92 |
| 29 | C | 311 | CLA | C1B-CHB-C4A | -2.41 | 125.35 | 130.12 |
| 39 | Q | 314 | KC1 | C3D-CAD-CBD | -2.41 | 104.44 | 107.61 |
| 29 | Q | 307 | CLA | CHB-C4A-NA | 2.40 | 127.84 | 124.51 |
| 29 | F | 308 | CLA | CHB-C4A-NA | 2.40 | 127.84 | 124.51 |
| 36 | L | 303 | DD6 | C37-C36-C35 | 2.40 | 118.81 | 114.36 |
| 29 | b | 712 | CLA | O2A-CGA-O1A | -2.40 | 117.53 | 123.59 |
| 36 | D | 304 | DD6 | C37-C36-C35 | 2.40 | 118.81 | 114.36 |
| 29 | I | 217 | CLA | CHB-C4A-NA | 2.40 | 127.83 | 124.51 |
| 36 | K | 205 | DD6 | C9-C10-C11 | -2.40 | 123.88 | 127.31 |
| 38 | C | 306 | UIX | C14-C23-C26 | -2.40 | 119.67 | 126.42 |
| 29 | a | 806 | CLA | C1B-CHB-C4A | -2.40 | 125.36 | 130.12 |
| 38 | A | 203 | UIX | C14-C13-C11 | -2.40 | 123.89 | 127.31 |
| 29 | A | 214 | CLA | CAA-C2A-C3A | -2.40 | 110.50 | 116.10 |
| 29 | G | 302 | CLA | CAA-C2A-C3A | -2.40 | 106.21 | 112.78 |
| 29 | a | 802 | CLA | CHB-C4A-NA | 2.40 | 127.83 | 124.51 |
| 38 | A | 203 | UIX | C19-C18-C17 | 2.40 | 114.06 | 109.88 |
| 29 | A | 210 | CLA | CHD-C1D-ND | -2.40 | 122.25 | 124.45 |
| 29 | b | 721 | CLA | O2D-CGD-CBD | 2.40 | 115.53 | 111.27 |
| 29 | M | 311 | CLA | C1B-CHB-C4A | -2.40 | 125.37 | 130.12 |
| 35 | b | 733 | DGD | O2D-C2D-C3D | -2.40 | 104.81 | 110.35 |
| 39 | T | 315 | KC1 | O1D-CGD-CBD | -2.40 | 119.58 | 124.48 |
| 37 | H | 302 | PID | C17-C16-C15 | 2.40 | 128.38 | 123.47 |
| 29 | a | 821 | CLA | CHB-C4A-NA | 2.40 | 127.83 | 124.51 |
| 36 | K | 203 | DD6 | C37-C36-C35 | 2.40 | 118.80 | 114.36 |
| 39 | E | 312 | KC1 | C2A-C3A-C4A | 2.40 | 108.26 | 106.49 |
| 39 | M | 312 | KC1 | O1D-CGD-CBD | -2.40 | 119.58 | 124.48 |
| 29 | K | 214 | CLA | CHD-C1D-ND | -2.40 | 122.25 | 124.45 |
| 36 | F | 301 | DD6 | C25-C24-C1 | -2.39 | 119.69 | 126.42 |
| 29 | a | 811 | CLA | CHB-C4A-NA | 2.39 | 127.82 | 124.51 |
| 32 | b | 728 | BCR | C11-C10-C9 | -2.39 | 123.89 | 127.31 |
| 29 | A | 212 | CLA | C1B-CHB-C4A | -2.39 | 125.38 | 130.12 |
| 36 | m | 101 | DD6 | C21-C20-C15 | -2.39 | 118.25 | 122.26 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | N | 316 | CLA | CHB-C4A-NA | 2.39 | 127.82 | 124.51 |
| 29 | a | 826 | CLA | C1B-CHB-C4A | -2.39 | 125.38 | 130.12 |
| 29 | I | 209 | CLA | C1B-CHB-C4A | -2.39 | 125.38 | 130.12 |
| 39 | O | 315 | KC1 | O2D-CGD-O1D | -2.39 | 119.16 | 123.84 |
| 29 | P | 212 | CLA | CHB-C4A-NA | 2.39 | 127.82 | 124.51 |
| 39 | I | 215 | KC1 | C4B-CHC-C1C | -2.39 | 120.90 | 126.06 |
| 29 | M | 308 | CLA | CHB-C4A-NA | 2.39 | 127.82 | 124.51 |
| 29 | E | 313 | CLA | CHB-C4A-NA | 2.39 | 127.82 | 124.51 |
| 32 | m | 103 | BCR | C38-C26-C25 | -2.39 | 121.84 | 124.53 |
| 29 | I | 213 | CLA | C1B-CHB-C4A | -2.39 | 125.39 | 130.12 |
| 38 | F | 305 | UIX | C22-C15-C20 | -2.39 | 108.33 | 110.47 |
| 29 | a | 825 | CLA | C1B-CHB-C4A | -2.39 | 125.39 | 130.12 |
| 29 | b | 718 | CLA | C1B-CHB-C4A | -2.39 | 125.39 | 130.12 |
| 29 | A | 214 | CLA | CHB-C4A-NA | 2.39 | 127.81 | 124.51 |
| 36 | B | 319 | DD6 | C19-C18-C17 | -2.39 | 106.17 | 110.77 |
| 29 | l | 509 | CLA | CAA-C2A-C3A | -2.39 | 110.53 | 116.10 |
| 29 | J | 305 | CLA | CHB-C4A-NA | 2.39 | 127.81 | 124.51 |
| 36 | K | 204 | DD6 | C19-C18-C17 | -2.39 | 106.17 | 110.77 |
| 29 | a | 837 | CLA | C1B-CHB-C4A | -2.39 | 125.39 | 130.12 |
| 29 | N | 311 | CLA | C1B-CHB-C4A | -2.38 | 125.39 | 130.12 |
| 29 | E | 308 | CLA | C1B-CHB-C4A | -2.38 | 125.39 | 130.12 |
| 37 | G | 303 | PID | C17-C18-C19 | 2.38 | 130.12 | 124.81 |
| 36 | m | 101 | DD6 | C33-C34-C35 | -2.38 | 107.04 | 110.30 |
| 37 | O | 307 | PID | C18-C19-C20 | 2.38 | 128.36 | 123.47 |
| 29 | K | 211 | CLA | CHB-C4A-NA | 2.38 | 127.81 | 124.51 |
| 36 | E | 302 | DD6 | C34-C35-C36 | -2.38 | 107.11 | 111.85 |
| 29 | K | 209 | CLA | CHB-C4A-NA | 2.38 | 127.80 | 124.51 |
| 32 | b | 728 | BCR | C20-C19-C18 | -2.38 | 119.73 | 126.42 |
| 34 | b | 732 | LMG | O6-C1-O1 | -2.38 | 104.34 | 109.97 |
| 34 | j | 102 | LMG | O3-C3-C2 | -2.38 | 104.85 | 110.35 |
| 38 | O | 306 | UIX | C10-C11-C13 | 2.38 | 122.59 | 118.94 |
| 39 | Q | 314 | KC1 | C2A-C3A-C4A | 2.38 | 108.25 | 106.49 |
| 29 | b | 725 | CLA | CHB-C4A-NA | 2.37 | 127.80 | 124.51 |
| 29 | E | 310 | CLA | CHB-C4A-NA | 2.37 | 127.80 | 124.51 |
| 36 | L | 304 | DD6 | C13-C11-C10 | 2.37 | 122.58 | 118.94 |
| 29 | H | 308 | CLA | C1B-CHB-C4A | -2.37 | 125.42 | 130.12 |
| 36 | A | 201 | DD6 | C9-C8-C6 | -2.37 | 119.75 | 126.42 |
| 29 | N | 314 | CLA | O2D-CGD-CBD | 2.37 | 115.48 | 111.27 |
| 29 | G | 316 | CLA | C1B-CHB-C4A | -2.37 | 125.42 | 130.12 |
| 29 | M | 310 | CLA | C1B-CHB-C4A | -2.37 | 125.42 | 130.12 |
| 38 | A | 203 | UIX | C16-C20-C15 | 2.37 | 122.05 | 119.70 |
| 36 | B | 303 | DD6 | O1-C20-C19 | -2.37 | 111.60 | 113.38 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | G | 316 | CLA | CHB-C4A-NA | 2.37 | 127.79 | 124.51 |
| 29 | a | 830 | CLA | C1B-CHB-C4A | -2.37 | 125.42 | 130.12 |
| 29 | b | 701 | CLA | C1B-CHB-C4A | -2.37 | 125.42 | 130.12 |
| 32 | b | 729 | BCR | C33-C5-C6 | -2.37 | 121.86 | 124.53 |
| 29 | a | 809 | CLA | C1B-CHB-C4A | -2.37 | 125.42 | 130.12 |
| 36 | G | 307 | DD6 | C9-C8-C6 | -2.37 | 119.75 | 126.42 |
| 29 | b | 702 | CLA | C1B-CHB-C4A | -2.37 | 125.42 | 130.12 |
| 29 | K | 218 | CLA | C1B-CHB-C4A | -2.37 | 125.42 | 130.12 |
| 29 | J | 310 | CLA | C1B-CHB-C4A | -2.37 | 125.42 | 130.12 |
| 29 | N | 314 | CLA | C1B-CHB-C4A | -2.37 | 125.42 | 130.12 |
| 29 | F | 312 | CLA | CHB-C4A-NA | 2.37 | 127.79 | 124.51 |
| 29 | A | 209 | CLA | C1B-CHB-C4A | -2.37 | 125.42 | 130.12 |
| 29 | Q | 312 | CLA | C1B-CHB-C4A | -2.37 | 125.42 | 130.12 |
| 29 | E | 305 | CLA | CAA-C2A-C3A | -2.37 | 106.29 | 112.78 |
| 38 | A | 203 | UIX | O2-C27-O4 | -2.37 | 118.25 | 122.96 |
| 29 | a | 830 | CLA | CHB-C4A-NA | 2.37 | 127.79 | 124.51 |
| 29 | E | 313 | CLA | C1B-CHB-C4A | -2.37 | 125.42 | 130.12 |
| 29 | b | 710 | CLA | CHB-C4A-NA | 2.37 | 127.79 | 124.51 |
| 29 | a | 831 | CLA | CHB-C4A-NA | 2.37 | 127.79 | 124.51 |
| 29 | b | 718 | CLA | CHB-C4A-NA | 2.37 | 127.79 | 124.51 |
| 29 | b | 712 | CLA | C1B-CHB-C4A | -2.37 | 125.43 | 130.12 |
| 37 | O | 302 | PID | C16-C15-C14 | 2.37 | 130.69 | 127.31 |
| 29 | C | 308 | CLA | CHB-C4A-NA | 2.37 | 127.78 | 124.51 |
| 29 | I | 211 | CLA | C1B-CHB-C4A | -2.37 | 125.43 | 130.12 |
| 36 | G | 308 | DD6 | C33-C34-C35 | -2.37 | 107.06 | 110.30 |
| 37 | D | 307 | PID | C26-C25-C24 | 2.37 | 111.51 | 109.21 |
| 29 | a | 810 | CLA | CHB-C4A-NA | 2.37 | 127.78 | 124.51 |
| 29 | L | 308 | CLA | CHB-C4A-NA | 2.37 | 127.78 | 124.51 |
| 32 | b | 729 | BCR | C38-C26-C25 | -2.37 | 121.87 | 124.53 |
| 36 | Q | 302 | DD6 | C9-C8-C6 | -2.37 | 119.77 | 126.42 |
| 36 | J | 301 | DD6 | C24-C1-C2 | 2.36 | 122.57 | 118.94 |
| 29 | f | 802 | CLA | C1B-CHB-C4A | -2.36 | 125.43 | 130.12 |
| 29 | E | 311 | CLA | C1B-CHB-C4A | -2.36 | 125.44 | 130.12 |
| 29 | l | 503 | CLA | CHD-C1D-ND | -2.36 | 122.28 | 124.45 |
| 38 | O | 306 | UIX | C41-C40-C39 | -2.36 | 119.61 | 122.92 |
| 29 | a | 808 | CLA | C1B-CHB-C4A | -2.36 | 125.44 | 130.12 |
| 29 | K | 212 | CLA | CHB-C4A-NA | 2.36 | 127.78 | 124.51 |
| 39 | C | 310 | KC1 | O2D-CGD-O1D | -2.36 | 119.22 | 123.84 |
| 29 | L | 313 | CLA | C1B-CHB-C4A | -2.36 | 125.44 | 130.12 |
| 39 | F | 309 | KC1 | C3D-CAD-CBD | -2.36 | 104.50 | 107.61 |
| 29 | b | 715 | CLA | CHB-C4A-NA | 2.36 | 127.78 | 124.51 |
| 29 | i | 201 | CLA | C1B-CHB-C4A | -2.36 | 125.44 | 130.12 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 39 | P | 211 | KC1 | C4B-CHC-C1C | -2.36 | 120.97 | 126.06 |
| 29 | b | 704 | CLA | CMB-C2B-C3B | 2.36 | 129.09 | 124.68 |
| 29 | J | 308 | CLA | CHB-C4A-NA | 2.36 | 127.78 | 124.51 |
| 36 | B | 303 | DD6 | C21-C20-C15 | -2.36 | 118.31 | 122.26 |
| 36 | Q | 302 | DD6 | C21-C20-C15 | -2.36 | 118.31 | 122.26 |
| 29 | D | 314 | CLA | C1B-CHB-C4A | -2.36 | 125.44 | 130.12 |
| 37 | O | 302 | PID | CM4-C14-C13 | 2.36 | 124.49 | 119.05 |
| 39 | B | 313 | KC1 | O2D-CGD-O1D | -2.36 | 119.23 | 123.84 |
| 29 | a | 818 | CLA | C1B-CHB-C4A | -2.36 | 125.45 | 130.12 |
| 39 | J | 312 | KC1 | O2D-CGD-O1D | -2.36 | 119.23 | 123.84 |
| 34 | K | 201 | LMG | O1-C1-C2 | -2.36 | 104.62 | 108.30 |
| 29 | O | 313 | CLA | CHB-C4A-NA | 2.36 | 127.77 | 124.51 |
| 29 | G | 314 | CLA | C1B-CHB-C4A | -2.36 | 125.45 | 130.12 |
| 29 | E | 315 | CLA | C1B-CHB-C4A | -2.36 | 125.45 | 130.12 |
| 29 | b | 723 | CLA | C1B-CHB-C4A | -2.36 | 125.45 | 130.12 |
| 36 | K | 204 | DD6 | C33-C34-C35 | -2.36 | 107.08 | 110.30 |
| 29 | L | 316 | CLA | CHB-C4A-NA | 2.36 | 127.77 | 124.51 |
| 36 | B | 301 | DD6 | C5-C4-C3 | -2.35 | 119.57 | 124.81 |
| 29 | l | 505 | CLA | C1B-CHB-C4A | -2.35 | 125.45 | 130.12 |
| 29 | A | 207 | CLA | CHB-C4A-NA | 2.35 | 127.77 | 124.51 |
| 38 | N | 306 | UIX | C33-C32-C35 | -2.35 | 119.62 | 122.92 |
| 29 | a | 814 | CLA | CHB-C4A-NA | 2.35 | 127.77 | 124.51 |
| 29 | E | 306 | CLA | C1B-CHB-C4A | -2.35 | 125.46 | 130.12 |
| 29 | H | 313 | CLA | CHD-C1D-ND | -2.35 | 122.29 | 124.45 |
| 37 | T | 302 | PID | C17-C16-C15 | 2.35 | 128.29 | 123.47 |
| 29 | b | 720 | CLA | CHB-C4A-NA | 2.35 | 127.77 | 124.51 |
| 29 | a | 811 | CLA | C1B-CHB-C4A | -2.35 | 125.46 | 130.12 |
| 29 | a | 824 | CLA | C1B-CHB-C4A | -2.35 | 125.46 | 130.12 |
| 29 | L | 312 | CLA | C1B-CHB-C4A | -2.35 | 125.46 | 130.12 |
| 35 | b | 733 | DGD | O1G-C1A-O1A | -2.35 | 117.66 | 123.59 |
| 29 | A | 208 | CLA | C1B-CHB-C4A | -2.35 | 125.46 | 130.12 |
| 29 | L | 309 | CLA | CHB-C4A-NA | 2.35 | 127.76 | 124.51 |
| 39 | L | 314 | KC1 | C4B-CHC-C1C | -2.35 | 120.99 | 126.06 |
| 38 | N | 306 | UIX | C12-C11-C13 | -2.35 | 119.63 | 122.92 |
| 29 | A | 211 | CLA | C1B-CHB-C4A | -2.35 | 125.46 | 130.12 |
| 29 | I | 209 | CLA | CHB-C4A-NA | 2.35 | 127.76 | 124.51 |
| 35 | B | 318 | DGD | O6D-C1D-C2D | -2.35 | 105.38 | 110.35 |
| 37 | D | 305 | PID | C18-C19-C20 | 2.35 | 128.28 | 123.47 |
| 29 | l | 505 | CLA | CHB-C4A-NA | 2.35 | 127.76 | 124.51 |
| 29 | H | 315 | CLA | CHB-C4A-NA | 2.35 | 127.76 | 124.51 |
| 29 | B | 315 | CLA | CHB-C4A-NA | 2.35 | 127.76 | 124.51 |
| 29 | F | 308 | CLA | C1B-CHB-C4A | -2.35 | 125.47 | 130.12 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 36 | K | 221 | DD6 | O1-C20-C15 | -2.35 | 57.02 | 58.96 |
| 34 | K | 201 | LMG | O2-C2-C1 | -2.35 | 104.35 | 110.05 |
| 29 | P | 210 | CLA | CHB-C4A-NA | 2.35 | 127.76 | 124.51 |
| 29 | L | 316 | CLA | C1B-CHB-C4A | -2.35 | 125.47 | 130.12 |
| 29 | Q | 308 | CLA | C1B-CHB-C4A | -2.34 | 125.47 | 130.12 |
| 39 | N | 310 | KC1 | CBD-CHA-C1A | 2.34 | 133.25 | 128.88 |
| 32 | b | 735 | BCR | C16-C15-C14 | -2.34 | 118.67 | 123.47 |
| 29 | b | 726 | CLA | CHB-C4A-NA | 2.34 | 127.75 | 124.51 |
| 32 | a | 838 | BCR | C16-C15-C14 | -2.34 | 118.67 | 123.47 |
| 36 | M | 303 | DD6 | C32-C33-C34 | -2.34 | 108.35 | 113.64 |
| 34 | b | 730 | LMG | C38-C37-C36 | -2.34 | 102.54 | 114.42 |
| 32 | l | 506 | BCR | C33-C5-C4 | 2.34 | 118.11 | 113.62 |
| 36 | O | 303 | DD6 | C9-C8-C6 | -2.34 | 119.84 | 126.42 |
| 34 | A | 219 | LMG | O6-C1-O1 | -2.34 | 104.43 | 109.97 |
| 38 | O | 306 | UIX | O2-C27-O4 | -2.34 | 118.31 | 122.96 |
| 36 | G | 307 | DD6 | C23-C16-C15 | -2.34 | 103.73 | 110.05 |
| 32 | b | 729 | BCR | C28-C27-C26 | -2.34 | 109.90 | 114.08 |
| 29 | I | 210 | CLA | CHB-C4A-NA | 2.34 | 127.75 | 124.51 |
| 29 | I | 211 | CLA | CHB-C4A-NA | 2.34 | 127.75 | 124.51 |
| 29 | a | 813 | CLA | C1B-CHB-C4A | -2.34 | 125.48 | 130.12 |
| 38 | F | 305 | UIX | C29-C26-C30 | -2.34 | 119.65 | 122.92 |
| 38 | L | 302 | UIX | C37-C39-C40 | -2.34 | 123.97 | 127.31 |
| 39 | A | 205 | KC1 | CBD-CHA-C1A | 2.34 | 133.24 | 128.88 |
| 29 | b | 719 | CLA | C2D-C1D-ND | -2.34 | 108.38 | 110.10 |
| 29 | I | 210 | CLA | C1B-CHB-C4A | -2.34 | 125.49 | 130.12 |
| 36 | K | 202 | DD6 | C10-C9-C8 | -2.34 | 115.93 | 123.22 |
| 37 | D | 305 | PID | CM2-C5-C4 | -2.34 | 104.92 | 108.98 |
| 29 | a | 812 | CLA | C1B-CHB-C4A | -2.33 | 125.49 | 130.12 |
| 29 | P | 209 | CLA | C1B-CHB-C4A | -2.33 | 125.49 | 130.12 |
| 29 | K | 210 | CLA | C1B-CHB-C4A | -2.33 | 125.50 | 130.12 |
| 34 | b | 732 | LMG | O1-C7-C8 | -2.33 | 105.27 | 110.90 |
| 29 | B | 308 | CLA | O2A-CGA-O1A | -2.33 | 117.70 | 123.59 |
| 37 | G | 310 | PID | C17-C16-C15 | 2.33 | 128.25 | 123.47 |
| 30 | a | 832 | PQN | C11-C3-C4 | 2.33 | 121.00 | 118.50 |
| 32 | f | 801 | BCR | C37-C22-C21 | -2.33 | 119.66 | 122.92 |
| 32 | f | 804 | BCR | C23-C24-C25 | -2.33 | 120.65 | 127.20 |
| 38 | P | 207 | UIX | C3-C5-C4 | -2.33 | 106.27 | 110.77 |
| 34 | K | 201 | LMG | O1-C7-C8 | -2.33 | 105.28 | 110.90 |
| 29 | F | 313 | CLA | C1B-CHB-C4A | -2.33 | 125.50 | 130.12 |
| 29 | K | 208 | CLA | CHB-C4A-NA | 2.33 | 127.73 | 124.51 |
| 38 | C | 306 | UIX | O2-C27-O4 | -2.33 | 118.33 | 122.96 |
| 29 | G | 301 | CLA | CHB-C4A-NA | 2.33 | 127.73 | 124.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 36 | D | 304 | DD6 | C34-C35-C36 | -2.33 | 107.22 | 111.85 |
| 36 | A | 201 | DD6 | C15-C14-C13 | -2.33 | 121.07 | 125.99 |
| 34 | b | 730 | LMG | O3-C3-C2 | -2.33 | 104.97 | 110.35 |
| 39 | M | 312 | KC1 | C2A-C3A-C4A | 2.33 | 108.21 | 106.49 |
| 39 | C | 310 | KC1 | O1D-CGD-CBD | -2.33 | 119.72 | 124.48 |
| 36 | I | 204 | DD6 | O1-C20-C19 | 2.33 | 115.13 | 113.38 |
| 29 | J | 305 | CLA | C1B-CHB-C4A | -2.33 | 125.51 | 130.12 |
| 38 | T | 306 | UIX | C29-C26-C30 | -2.33 | 119.67 | 122.92 |
| 38 | T | 306 | UIX | O2-C27-O4 | -2.32 | 118.34 | 122.96 |
| 39 | K | 215 | KC1 | O2A-CGA-O1A | -2.32 | 117.84 | 122.67 |
| 39 | J | 312 | KC1 | O1D-CGD-CBD | -2.32 | 119.73 | 124.48 |
| 38 | L | 302 | UIX | C41-C40-C38 | 2.32 | 121.74 | 118.08 |
| 29 | l | 508 | CLA | CHB-C4A-NA | 2.32 | 127.72 | 124.51 |
| 29 | Q | 308 | CLA | CHB-C4A-NA | 2.32 | 127.72 | 124.51 |
| 29 | A | 216 | CLA | C1B-CHB-C4A | -2.32 | 125.52 | 130.12 |
| 37 | T | 317 | PID | C28-C27-C26 | 2.32 | 113.93 | 109.88 |
| 29 | a | 824 | CLA | CHB-C4A-NA | 2.32 | 127.72 | 124.51 |
| 29 | b | 723 | CLA | CHB-C4A-NA | 2.32 | 127.72 | 124.51 |
| 39 | P | 213 | KC1 | CHB-C1B-C2B | -2.32 | 120.61 | 125.48 |
| 29 | h | 201 | CLA | C1B-CHB-C4A | -2.32 | 125.52 | 130.12 |
| 38 | N | 306 | UIX | C14-C23-C26 | -2.32 | 119.90 | 126.42 |
| 36 | H | 303 | DD6 | C28-C27-C29 | 2.32 | 121.43 | 116.84 |
| 29 | a | 837 | CLA | CHB-C4A-NA | 2.32 | 127.72 | 124.51 |
| 36 | L | 301 | DD6 | C37-C36-C35 | 2.32 | 118.65 | 114.36 |
| 34 | A | 219 | LMG | C38-C37-C36 | -2.32 | 102.66 | 114.42 |
| 29 | G | 304 | CLA | C1B-CHB-C4A | -2.32 | 125.53 | 130.12 |
| 29 | G | 319 | CLA | C1B-CHB-C4A | -2.32 | 125.53 | 130.12 |
| 34 | b | 734 | LMG | O3-C3-C2 | -2.32 | 104.99 | 110.35 |
| 29 | M | 313 | CLA | C1B-CHB-C4A | -2.32 | 125.53 | 130.12 |
| 36 | H | 303 | DD6 | C21-C20-C15 | -2.32 | 118.38 | 122.26 |
| 29 | D | 309 | CLA | C1B-CHB-C4A | -2.32 | 125.53 | 130.12 |
| 29 | C | 313 | CLA | C1B-CHB-C4A | -2.31 | 125.53 | 130.12 |
| 32 | f | 804 | BCR | C38-C26-C27 | 2.31 | 118.06 | 113.62 |
| 36 | D | 304 | DD6 | O1-C20-C15 | -2.31 | 57.04 | 58.96 |
| 29 | G | 317 | CLA | CHB-C4A-NA | 2.31 | 127.71 | 124.51 |
| 34 | K | 220 | LMG | O3-C3-C2 | -2.31 | 105.00 | 110.35 |
| 36 | M | 304 | DD6 | C20-C19-C18 | 2.31 | 117.33 | 112.75 |
| 29 | b | 719 | CLA | C1-C2-C3 | -2.31 | 123.01 | 126.75 |
| 36 | M | 303 | DD6 | C12-C11-C10 | -2.31 | 119.69 | 122.92 |
| 29 | b | 716 | CLA | CHD-C1D-ND | -2.31 | 122.33 | 124.45 |
| 39 | L | 306 | KC1 | C1A-C2A-C3A | -2.31 | 105.28 | 107.11 |
| 36 | M | 301 | DD6 | C3-C4-C5 | -2.31 | 118.74 | 123.47 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 36 | B | 319 | DD6 | O1-C20-C15 | -2.31 | 57.05 | 58.96 |
| 29 | a | 804 | CLA | O2A-CGA-O1A | -2.31 | 117.76 | 123.59 |
| 36 | I | 206 | DD6 | C37-C36-C35 | 2.31 | 118.64 | 114.36 |
| 29 | l | 509 | CLA | C1B-CHB-C4A | -2.31 | 125.54 | 130.12 |
| 37 | D | 303 | PID | O4-C12-C13 | 2.31 | 127.82 | 122.89 |
| 29 | I | 212 | CLA | CHB-C4A-NA | 2.31 | 127.70 | 124.51 |
| 29 | K | 214 | CLA | O2D-CGD-CBD | 2.31 | 115.37 | 111.27 |
| 36 | B | 305 | DD6 | C25-C26-C27 | -2.31 | 119.88 | 126.58 |
| 38 | Q | 305 | UIX | C21-C15-C20 | -2.31 | 108.41 | 110.47 |
| 29 | B | 312 | CLA | C1B-CHB-C4A | -2.31 | 125.55 | 130.12 |
| 39 | F | 309 | KC1 | O1D-CGD-CBD | -2.31 | 119.76 | 124.48 |
| 39 | C | 312 | KC1 | O2D-CGD-O1D | -2.31 | 119.33 | 123.84 |
| 29 | A | 218 | CLA | C1B-CHB-C4A | -2.31 | 125.55 | 130.12 |
| 29 | a | 823 | CLA | CHB-C4A-NA | 2.31 | 127.70 | 124.51 |
| 29 | L | 310 | CLA | C1B-CHB-C4A | -2.31 | 125.55 | 130.12 |
| 36 | M | 303 | DD6 | C25-C24-C1 | -2.31 | 119.94 | 126.42 |
| 29 | O | 309 | CLA | CHB-C4A-NA | 2.30 | 127.70 | 124.51 |
| 37 | N | 302 | PID | CM4-C14-C13 | 2.30 | 124.36 | 119.05 |
| 39 | K | 215 | KC1 | O1D-CGD-CBD | -2.30 | 119.77 | 124.48 |
| 29 | l | 505 | CLA | C2D-C1D-ND | -2.30 | 108.41 | 110.10 |
| 29 | L | 308 | CLA | C1B-CHB-C4A | -2.30 | 125.55 | 130.12 |
| 36 | I | 202 | DD6 | C3-C4-C5 | -2.30 | 118.76 | 123.47 |
| 37 | j | 101 | PID | C18-C17-C16 | 2.30 | 129.94 | 124.81 |
| 38 | Q | 305 | UIX | C33-C32-C35 | -2.30 | 119.70 | 122.92 |
| 36 | F | 301 | DD6 | C21-C20-C15 | -2.30 | 118.40 | 122.26 |
| 29 | B | 306 | CLA | C1B-CHB-C4A | -2.30 | 125.56 | 130.12 |
| 29 | T | 311 | CLA | C1B-CHB-C4A | -2.30 | 125.56 | 130.12 |
| 36 | M | 304 | DD6 | C3-C4-C5 | -2.30 | 118.76 | 123.47 |
| 32 | b | 729 | BCR | C33-C5-C4 | 2.30 | 118.03 | 113.62 |
| 29 | F | 316 | CLA | C1B-CHB-C4A | -2.30 | 125.56 | 130.12 |
| 29 | b | 707 | CLA | C1B-CHB-C4A | -2.30 | 125.56 | 130.12 |
| 36 | G | 308 | DD6 | O1-C20-C21 | -2.30 | 112.30 | 115.06 |
| 29 | L | 317 | CLA | C1B-CHB-C4A | -2.30 | 125.56 | 130.12 |
| 36 | K | 206 | DD6 | C3-C4-C5 | -2.30 | 118.77 | 123.47 |
| 29 | H | 313 | CLA | C1B-CHB-C4A | -2.30 | 125.56 | 130.12 |
| 36 | G | 305 | DD6 | C28-C27-C29 | 2.30 | 121.39 | 116.84 |
| 29 | M | 309 | CLA | C1B-CHB-C4A | -2.30 | 125.56 | 130.12 |
| 39 | O | 310 | KC1 | O1D-CGD-CBD | -2.30 | 119.78 | 124.48 |
| 29 | a | 823 | CLA | O2A-CGA-O1A | -2.30 | 117.79 | 123.59 |
| 37 | T | 317 | PID | C18-C19-C20 | 2.30 | 128.18 | 123.47 |
| 29 | l | 510 | CLA | CAA-C2A-C3A | -2.30 | 106.49 | 112.78 |
| 29 | K | 208 | CLA | C1B-CHB-C4A | -2.30 | 125.57 | 130.12 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | i | 202 | CLA | C1-C2-C3 | -2.30 | 122.07 | 126.04 |
| 32 | m | 103 | BCR | C20-C19-C18 | -2.30 | 119.97 | 126.42 |
| 39 | P | 216 | KC1 | C2A-C3A-C4A | 2.30 | 108.19 | 106.49 |
| 39 | G | 315 | KC1 | C2A-C3A-C4A | 2.29 | 108.19 | 106.49 |
| 29 | C | 309 | CLA | C1B-CHB-C4A | -2.29 | 125.57 | 130.12 |
| 38 | F | 305 | UIX | C16-C20-C15 | 2.29 | 121.97 | 119.70 |
| 38 | E | 304 | UIX | C13-C14-C23 | -2.29 | 116.06 | 123.22 |
| 29 | H | 315 | CLA | CAA-C2A-C3A | -2.29 | 110.75 | 116.10 |
| 29 | b | 712 | CLA | CHB-C4A-NA | 2.29 | 127.68 | 124.51 |
| 39 | H | 311 | KC1 | C3D-CAD-CBD | -2.29 | 104.59 | 107.61 |
| 29 | b | 708 | CLA | CHB-C4A-NA | 2.29 | 127.68 | 124.51 |
| 29 | l | 509 | CLA | CHB-C4A-NA | 2.29 | 127.68 | 124.51 |
| 36 | F | 303 | DD6 | C33-C34-C35 | -2.29 | 107.17 | 110.30 |
| 39 | Q | 311 | KC1 | CHB-C1B-C2B | -2.29 | 120.67 | 125.48 |
| 29 | B | 308 | CLA | CHB-C4A-NA | 2.29 | 127.68 | 124.51 |
| 29 | B | 310 | CLA | C1B-CHB-C4A | -2.29 | 125.58 | 130.12 |
| 34 | h | 205 | LMG | O2-C2-C1 | -2.29 | 104.48 | 110.05 |
| 29 | b | 731 | CLA | C1B-CHB-C4A | -2.29 | 125.58 | 130.12 |
| 39 | E | 307 | KC1 | O1D-CGD-CBD | -2.29 | 119.80 | 124.48 |
| 29 | b | 709 | CLA | C1B-CHB-C4A | -2.29 | 125.58 | 130.12 |
| 29 | F | 307 | CLA | C1B-CHB-C4A | -2.29 | 125.58 | 130.12 |
| 29 | E | 305 | CLA | CHB-C4A-NA | 2.29 | 127.68 | 124.51 |
| 32 | b | 728 | BCR | C7-C8-C9 | -2.29 | 122.78 | 126.23 |
| 39 | G | 315 | KC1 | O1D-CGD-CBD | -2.29 | 119.80 | 124.48 |
| 36 | B | 301 | DD6 | C21-C20-C15 | -2.29 | 118.43 | 122.26 |
| 39 | C | 315 | KC1 | O2D-CGD-O1D | -2.29 | 119.37 | 123.84 |
| 29 | P | 214 | CLA | C1B-CHB-C4A | -2.29 | 125.59 | 130.12 |
| 29 | B | 316 | CLA | C1B-CHB-C4A | -2.29 | 125.59 | 130.12 |
| 36 | I | 205 | DD6 | C33-C34-C35 | -2.29 | 107.17 | 110.30 |
| 39 | P | 213 | KC1 | O2D-CGD-O1D | -2.29 | 119.37 | 123.84 |
| 32 | a | 838 | BCR | C33-C5-C4 | 2.29 | 118.01 | 113.62 |
| 36 | G | 307 | DD6 | C12-C11-C10 | -2.29 | 119.72 | 122.92 |
| 29 | B | 311 | CLA | C1B-CHB-C4A | -2.29 | 125.59 | 130.12 |
| 29 | O | 316 | CLA | C1B-CHB-C4A | -2.29 | 125.59 | 130.12 |
| 29 | T | 313 | CLA | C1B-CHB-C4A | -2.29 | 125.59 | 130.12 |
| 39 | N | 310 | KC1 | C2A-C3A-C4A | 2.28 | 108.18 | 106.49 |
| 29 | f | 805 | CLA | CHB-C4A-NA | 2.28 | 127.67 | 124.51 |
| 36 | B | 302 | DD6 | C26-C25-C24 | -2.28 | 116.09 | 123.22 |
| 35 | B | 318 | DGD | C1E-O6E-C5E | 2.28 | 118.17 | 113.69 |
| 29 | a | 801 | CLA | CHB-C4A-NA | 2.28 | 127.67 | 124.51 |
| 29 | H | 312 | CLA | C1B-CHB-C4A | -2.28 | 125.60 | 130.12 |
| 39 | L | 306 | KC1 | O2D-CGD-O1D | -2.28 | 119.38 | 123.84 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 37 | G | 310 | PID | CM4-C14-C13 | 2.28 | 124.31 | 119.05 |
| 29 | b | 724 | CLA | CHB-C4A-NA | 2.28 | 127.67 | 124.51 |
| 36 | M | 301 | DD6 | C14-C13-C11 | -2.28 | 121.99 | 125.53 |
| 39 | D | 310 | KC1 | O1D-CGD-CBD | -2.28 | 119.82 | 124.48 |
| 29 | A | 207 | CLA | C1B-CHB-C4A | -2.28 | 125.60 | 130.12 |
| 36 | B | 319 | DD6 | C10-C9-C8 | -2.28 | 116.10 | 123.22 |
| 29 | L | 309 | CLA | C1B-CHB-C4A | -2.28 | 125.60 | 130.12 |
| 29 | D | 316 | CLA | C1B-CHB-C4A | -2.28 | 125.60 | 130.12 |
| 29 | G | 302 | CLA | C1B-CHB-C4A | -2.28 | 125.60 | 130.12 |
| 36 | D | 304 | DD6 | C9-C8-C6 | -2.28 | 120.02 | 126.42 |
| 36 | E | 303 | DD6 | C25-C26-C27 | -2.28 | 119.97 | 126.58 |
| 29 | i | 203 | CLA | C1B-CHB-C4A | -2.28 | 125.61 | 130.12 |
| 29 | a | 810 | CLA | O2A-CGA-O1A | -2.28 | 117.84 | 123.59 |
| 29 | a | 828 | CLA | C1B-CHB-C4A | -2.28 | 125.61 | 130.12 |
| 39 | O | 310 | KC1 | C3D-CAD-CBD | -2.28 | 104.61 | 107.61 |
| 38 | Q | 305 | UIX | C29-C26-C30 | -2.28 | 119.73 | 122.92 |
| 36 | h | 202 | DD6 | C37-C36-C35 | 2.28 | 118.57 | 114.36 |
| 29 | P | 215 | CLA | CED-O2D-CGD | 2.28 | 121.08 | 115.94 |
| 39 | N | 312 | KC1 | CBD-CHA-C1A | 2.27 | 133.12 | 128.88 |
| 36 | M | 301 | DD6 | C37-C36-C35 | 2.27 | 118.57 | 114.36 |
| 36 | O | 303 | DD6 | C7-C6-C5 | -2.27 | 119.74 | 122.92 |
| 29 | D | 313 | CLA | C1B-CHB-C4A | -2.27 | 125.61 | 130.12 |
| 39 | T | 315 | KC1 | C2A-C3A-C4A | 2.27 | 108.17 | 106.49 |
| 29 | I | 212 | CLA | C1B-CHB-C4A | -2.27 | 125.62 | 130.12 |
| 29 | A | 206 | CLA | O2D-CGD-CBD | 2.27 | 115.31 | 111.27 |
| 36 | K | 203 | DD6 | C12-C11-C10 | -2.27 | 119.74 | 122.92 |
| 39 | A | 213 | KC1 | O1D-CGD-CBD | -2.27 | 119.83 | 124.48 |
| 29 | J | 308 | CLA | O2D-CGD-CBD | 2.27 | 115.31 | 111.27 |
| 36 | J | 302 | DD6 | C9-C8-C6 | -2.27 | 120.03 | 126.42 |
| 29 | J | 309 | CLA | C1B-CHB-C4A | -2.27 | 125.62 | 130.12 |
| 29 | M | 307 | CLA | C1B-CHB-C4A | -2.27 | 125.62 | 130.12 |
| 36 | L | 305 | DD6 | C4-C3-C2 | -2.27 | 118.82 | 123.47 |
| 29 | M | 307 | CLA | CHB-C4A-NA | 2.27 | 127.65 | 124.51 |
| 37 | O | 307 | PID | C6-C7-C8 | 2.27 | 130.79 | 125.99 |
| 38 | Q | 305 | UIX | O2-C27-O4 | -2.27 | 118.45 | 122.96 |
| 29 | b | 722 | CLA | C1B-CHB-C4A | -2.27 | 125.62 | 130.12 |
| 29 | T | 308 | CLA | C1B-CHB-C4A | -2.27 | 125.62 | 130.12 |
| 29 | A | 217 | CLA | CHB-C4A-NA | 2.27 | 127.65 | 124.51 |
| 36 | M | 302 | DD6 | C37-C36-C35 | 2.27 | 118.56 | 114.36 |
| 38 | E | 304 | UIX | C34-C37-C39 | -2.27 | 118.83 | 123.47 |
| 35 | B | 318 | DGD | O2G-C1B-O1B | -2.27 | 118.22 | 123.70 |
| 29 | K | 207 | CLA | CHD-C1D-ND | -2.27 | 122.37 | 124.45 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | A | 211 | CLA | CHB-C4A-NA | 2.27 | 127.64 | 124.51 |
| 39 | T | 312 | KC1 | C3D-CAD-CBD | -2.27 | 104.62 | 107.61 |
| 39 | E | 307 | KC1 | C3D-CAD-CBD | -2.27 | 104.62 | 107.61 |
| 29 | f | 802 | CLA | CHB-C4A-NA | 2.26 | 127.64 | 124.51 |
| 29 | I | 216 | CLA | C1B-CHB-C4A | -2.26 | 125.63 | 130.12 |
| 36 | G | 305 | DD6 | C12-C11-C10 | -2.26 | 119.75 | 122.92 |
| 29 | K | 212 | CLA | C2D-C1D-ND | -2.26 | 108.44 | 110.10 |
| 29 | O | 313 | CLA | C1B-CHB-C4A | -2.26 | 125.63 | 130.12 |
| 39 | H | 311 | KC1 | O2D-CGD-O1D | -2.26 | 119.41 | 123.84 |
| 34 | K | 219 | LMG | O3-C3-C2 | -2.26 | 105.12 | 110.35 |
| 38 | O | 306 | UIX | C29-C26-C30 | -2.26 | 119.76 | 122.92 |
| 36 | O | 303 | DD6 | O1-C20-C15 | -2.26 | 57.09 | 58.96 |
| 29 | K | 216 | CLA | C1B-CHB-C4A | -2.26 | 125.64 | 130.12 |
| 29 | A | 210 | CLA | CHB-C4A-NA | 2.26 | 127.64 | 124.51 |
| 36 | H | 303 | DD6 | C7-C6-C5 | -2.26 | 119.76 | 122.92 |
| 39 | N | 310 | KC1 | O1D-CGD-CBD | -2.26 | 119.86 | 124.48 |
| 32 | f | 804 | BCR | C11-C12-C13 | -2.26 | 120.07 | 126.42 |
| 37 | T | 317 | PID | C17-C18-C19 | 2.26 | 129.83 | 124.81 |
| 36 | M | 301 | DD6 | C25-C24-C1 | -2.26 | 120.08 | 126.42 |
| 29 | N | 313 | CLA | CMD-C2D-C1D | -2.26 | 120.74 | 124.71 |
| 29 | l | 510 | CLA | CMB-C2B-C3B | 2.26 | 128.90 | 124.68 |
| 38 | N | 306 | UIX | O2-C27-O4 | -2.26 | 118.48 | 122.96 |
| 29 | a | 829 | CLA | CHB-C4A-NA | 2.25 | 127.63 | 124.51 |
| 29 | a | 804 | CLA | C1B-CHB-C4A | -2.25 | 125.65 | 130.12 |
| 36 | N | 303 | DD6 | C37-C36-C35 | 2.25 | 118.53 | 114.36 |
| 29 | j | 104 | CLA | O2A-CGA-O1A | -2.25 | 117.91 | 123.59 |
| 29 | C | 316 | CLA | C1B-CHB-C4A | -2.25 | 125.65 | 130.12 |
| 29 | G | 313 | CLA | C1B-CHB-C4A | -2.25 | 125.66 | 130.12 |
| 29 | K | 217 | CLA | C1B-CHB-C4A | -2.25 | 125.66 | 130.12 |
| 29 | T | 316 | CLA | C1B-CHB-C4A | -2.25 | 125.66 | 130.12 |
| 29 | a | 816 | CLA | C1B-CHB-C4A | -2.25 | 125.66 | 130.12 |
| 29 | O | 308 | CLA | C1B-CHB-C4A | -2.25 | 125.66 | 130.12 |
| 29 | i | 202 | CLA | CHB-C4A-NA | 2.25 | 127.62 | 124.51 |
| 29 | I | 216 | CLA | C1-C2-C3 | -2.25 | 122.15 | 126.04 |
| 36 | A | 201 | DD6 | C12-C11-C10 | -2.25 | 119.77 | 122.92 |
| 29 | a | 817 | CLA | C1B-CHB-C4A | -2.25 | 125.66 | 130.12 |
| 29 | C | 308 | CLA | C1B-CHB-C4A | -2.25 | 125.66 | 130.12 |
| 29 | P | 217 | CLA | C1B-CHB-C4A | -2.25 | 125.66 | 130.12 |
| 39 | P | 211 | KC1 | O1D-CGD-CBD | -2.25 | 119.88 | 124.48 |
| 39 | N | 315 | KC1 | O2D-CGD-O1D | -2.25 | 119.44 | 123.84 |
| 29 | E | 314 | CLA | CHB-C4A-NA | 2.25 | 127.62 | 124.51 |
| 37 | j | 101 | PID | C6-C7-C8 | -2.25 | 121.24 | 125.99 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 37 | P | 203 | PID | C16-C15-C14 | 2.25 | 130.52 | 127.31 |
| 37 | O | 302 | PID | C18-C17-C16 | 2.25 | 129.81 | 124.81 |
| 29 | a | 830 | CLA | O2A-CGA-O1A | -2.25 | 117.92 | 123.59 |
| 29 | a | 801 | CLA | C1-C2-C3 | -2.25 | 122.16 | 126.04 |
| 32 | l | 507 | BCR | C38-C26-C27 | 2.25 | 117.93 | 113.62 |
| 29 | a | 810 | CLA | CMB-C2B-C3B | 2.25 | 128.88 | 124.68 |
| 36 | T | 303 | DD6 | C4-C3-C2 | -2.25 | 118.87 | 123.47 |
| 29 | Q | 312 | CLA | O1D-CGD-CBD | 2.25 | 129.08 | 124.48 |
| 29 | L | 315 | CLA | C1B-CHB-C4A | -2.25 | 125.67 | 130.12 |
| 36 | K | 206 | DD6 | C37-C36-C35 | 2.25 | 118.52 | 114.36 |
| 39 | D | 310 | KC1 | C2A-C3A-C4A | 2.25 | 108.15 | 106.49 |
| 29 | D | 314 | CLA | O2D-CGD-CBD | 2.25 | 115.26 | 111.27 |
| 29 | I | 213 | CLA | C1-C2-C3 | -2.25 | 122.16 | 126.04 |
| 35 | B | 318 | DGD | O6D-C5D-C4D | 2.25 | 113.77 | 109.69 |
| 29 | b | 721 | CLA | C1B-CHB-C4A | -2.24 | 125.67 | 130.12 |
| 29 | G | 317 | CLA | C1B-CHB-C4A | -2.24 | 125.67 | 130.12 |
| 36 | E | 303 | DD6 | C37-C36-C35 | 2.24 | 118.51 | 114.36 |
| 36 | K | 205 | DD6 | C14-C13-C11 | -2.24 | 122.05 | 125.53 |
| 36 | P | 204 | DD6 | C33-C32-C31 | 2.24 | 114.17 | 109.62 |
| 29 | E | 305 | CLA | C1B-CHB-C4A | -2.24 | 125.67 | 130.12 |
| 29 | a | 829 | CLA | C1B-CHB-C4A | -2.24 | 125.68 | 130.12 |
| 39 | C | 315 | KC1 | C2A-C3A-C4A | 2.24 | 108.15 | 106.49 |
| 29 | F | 315 | CLA | C1B-CHB-C4A | -2.24 | 125.68 | 130.12 |
| 36 | J | 303 | DD6 | C9-C8-C6 | -2.24 | 120.12 | 126.42 |
| 37 | T | 307 | PID | C18-C17-C16 | 2.24 | 129.80 | 124.81 |
| 29 | B | 309 | CLA | C1B-CHB-C4A | -2.24 | 125.68 | 130.12 |
| 36 | K | 202 | DD6 | C-C1-C2 | -2.24 | 119.78 | 122.92 |
| 38 | P | 207 | UIX | O2-C27-O4 | -2.24 | 118.51 | 122.96 |
| 39 | D | 315 | KC1 | O1D-CGD-CBD | -2.24 | 119.90 | 124.48 |
| 29 | E | 309 | CLA | C1B-CHB-C4A | -2.24 | 125.68 | 130.12 |
| 37 | N | 307 | PID | O1-C1-C2 | -2.24 | 111.70 | 113.38 |
| 29 | I | 209 | CLA | C1-C2-C3 | -2.24 | 122.17 | 126.04 |
| 37 | D | 303 | PID | CM4-C14-C13 | 2.24 | 124.21 | 119.05 |
| 29 | a | 819 | CLA | C1-C2-C3 | -2.24 | 122.17 | 126.04 |
| 39 | P | 216 | KC1 | O1D-CGD-CBD | -2.24 | 119.91 | 124.48 |
| 29 | D | 311 | CLA | C1B-CHB-C4A | -2.24 | 125.69 | 130.12 |
| 36 | J | 302 | DD6 | C32-C33-C34 | -2.24 | 108.59 | 113.64 |
| 29 | b | 725 | CLA | C1B-CHB-C4A | -2.24 | 125.69 | 130.12 |
| 29 | b | 721 | CLA | C1-C2-C3 | -2.24 | 122.18 | 126.04 |
| 29 | G | 312 | CLA | CHD-C1D-ND | -2.24 | 122.40 | 124.45 |
| 36 | B | 303 | DD6 | O1-C20-C21 | -2.24 | 112.38 | 115.06 |
| 29 | b | 724 | CLA | O2A-CGA-O1A | -2.23 | 117.95 | 123.59 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 39 | G | 315 | KC1 | CMD-C2D-C1D | -2.23 | 125.03 | 128.46 |
| 36 | I | 205 | DD6 | C19-C18-C17 | -2.23 | 106.46 | 110.77 |
| 36 | C | 303 | DD6 | C4-C3-C2 | -2.23 | 118.90 | 123.47 |
| 34 | b | 732 | LMG | O2-C2-C1 | -2.23 | 104.62 | 110.05 |
| 29 | a | 815 | CLA | C1B-CHB-C4A | -2.23 | 125.69 | 130.12 |
| 29 | a | 821 | CLA | C1B-CHB-C4A | -2.23 | 125.69 | 130.12 |
| 38 | T | 306 | UIX | C3-C5-C4 | -2.23 | 106.46 | 110.77 |
| 32 | m | 103 | BCR | C35-C13-C14 | -2.23 | 119.80 | 122.92 |
| 39 | B | 313 | KC1 | C2A-C3A-C4A | 2.23 | 108.14 | 106.49 |
| 32 | a | 838 | BCR | C8-C7-C6 | -2.23 | 120.93 | 127.20 |
| 36 | C | 303 | DD6 | C7-C6-C5 | -2.23 | 119.80 | 122.92 |
| 29 | K | 207 | CLA | C1B-CHB-C4A | -2.23 | 125.70 | 130.12 |
| 29 | J | 313 | CLA | C1B-CHB-C4A | -2.23 | 125.70 | 130.12 |
| 34 | K | 201 | LMG | O3-C3-C2 | -2.23 | 105.19 | 110.35 |
| 29 | I | 208 | CLA | C1B-CHB-C4A | -2.23 | 125.70 | 130.12 |
| 36 | M | 303 | DD6 | C-C1-C2 | -2.23 | 119.80 | 122.92 |
| 29 | A | 217 | CLA | C1B-CHB-C4A | -2.23 | 125.70 | 130.12 |
| 29 | J | 308 | CLA | C1B-CHB-C4A | -2.23 | 125.70 | 130.12 |
| 36 | K | 204 | DD6 | C13-C11-C10 | 2.23 | 122.36 | 118.94 |
| 36 | I | 202 | DD6 | O1-C20-C21 | -2.23 | 112.38 | 115.06 |
| 29 | l | 504 | CLA | C1B-CHB-C4A | -2.23 | 125.70 | 130.12 |
| 29 | P | 212 | CLA | C1B-CHB-C4A | -2.23 | 125.70 | 130.12 |
| 29 | Q | 307 | CLA | C1B-CHB-C4A | -2.23 | 125.70 | 130.12 |
| 29 | A | 215 | CLA | C1B-CHB-C4A | -2.23 | 125.70 | 130.12 |
| 39 | N | 312 | KC1 | C1A-C2A-C3A | -2.23 | 105.35 | 107.11 |
| 29 | Q | 315 | CLA | C1B-CHB-C4A | -2.23 | 125.71 | 130.12 |
| 34 | h | 205 | LMG | O3-C3-C2 | -2.23 | 105.20 | 110.35 |
| 29 | I | 217 | CLA | O2A-CGA-O1A | -2.23 | 117.97 | 123.59 |
| 29 | b | 716 | CLA | CHB-C4A-NA | 2.23 | 127.59 | 124.51 |
| 34 | h | 205 | LMG | O7-C10-O9 | -2.23 | 118.32 | 123.70 |
| 29 | B | 308 | CLA | CHD-C1D-ND | -2.23 | 122.41 | 124.45 |
| 39 | H | 314 | KC1 | O1D-CGD-CBD | -2.23 | 119.93 | 124.48 |
| 38 | F | 305 | UIX | O2-C27-O4 | -2.22 | 118.54 | 122.96 |
| 38 | L | 302 | UIX | C13-C14-C23 | -2.22 | 116.28 | 123.22 |
| 39 | L | 314 | KC1 | C2A-C3A-C4A | 2.22 | 108.14 | 106.49 |
| 29 | B | 307 | CLA | C1B-CHB-C4A | -2.22 | 125.71 | 130.12 |
| 36 | D | 301 | DD6 | C37-C36-C35 | 2.22 | 118.47 | 114.36 |
| 36 | T | 303 | DD6 | C37-C36-C35 | 2.22 | 118.47 | 114.36 |
| 36 | B | 302 | DD6 | C4-C3-C2 | -2.22 | 118.92 | 123.47 |
| 29 | I | 212 | CLA | CHD-C1D-ND | -2.22 | 122.41 | 124.45 |
| 29 | B | 306 | CLA | CHD-C1D-ND | -2.22 | 122.41 | 124.45 |
| 29 | a | 831 | CLA | C1B-CHB-C4A | -2.22 | 125.72 | 130.12 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | D | 308 | CLA | C1B-CHB-C4A | -2.22 | 125.72 | 130.12 |
| 36 | M | 303 | DD6 | C7-C6-C5 | -2.22 | 119.81 | 122.92 |
| 29 | M | 306 | CLA | C1B-CHB-C4A | -2.22 | 125.72 | 130.12 |
| 29 | f | 803 | CLA | C1B-CHB-C4A | -2.22 | 125.72 | 130.12 |
| 29 | G | 311 | CLA | C1B-CHB-C4A | -2.22 | 125.72 | 130.12 |
| 37 | H | 305 | PID | C19-C20-C21 | 2.22 | 130.48 | 127.31 |
| 32 | b | 728 | BCR | C16-C15-C14 | -2.22 | 118.93 | 123.47 |
| 36 | G | 306 | DD6 | C25-C26-C27 | -2.22 | 120.14 | 126.58 |
| 29 | F | 311 | CLA | C1B-CHB-C4A | -2.22 | 125.72 | 130.12 |
| 29 | I | 213 | CLA | CHD-C1D-ND | -2.22 | 122.42 | 124.45 |
| 29 | N | 316 | CLA | C1B-CHB-C4A | -2.22 | 125.72 | 130.12 |
| 39 | P | 213 | KC1 | CBD-CHA-C1A | 2.22 | 133.01 | 128.88 |
| 38 | N | 306 | UIX | C29-C26-C30 | -2.22 | 119.82 | 122.92 |
| 29 | O | 314 | CLA | CHD-C1D-ND | -2.22 | 122.42 | 124.45 |
| 39 | C | 312 | KC1 | C3D-CAD-CBD | -2.22 | 104.69 | 107.61 |
| 40 | J | 314 | SQD | O6-C1-C2 | 2.22 | 111.76 | 108.30 |
| 29 | b | 731 | CLA | CHD-C1D-ND | -2.22 | 122.42 | 124.45 |
| 29 | K | 214 | CLA | O2A-CGA-O1A | -2.21 | 118.00 | 123.59 |
| 36 | K | 202 | DD6 | C25-C24-C1 | -2.21 | 120.19 | 126.42 |
| 29 | a | 812 | CLA | CHD-C1D-ND | -2.21 | 122.42 | 124.45 |
| 29 | Q | 313 | CLA | C1B-CHB-C4A | -2.21 | 125.73 | 130.12 |
| 34 | j | 102 | LMG | O1-C1-C2 | -2.21 | 104.85 | 108.30 |
| 29 | a | 810 | CLA | C1-C2-C3 | -2.21 | 122.21 | 126.04 |
| 29 | K | 212 | CLA | CHD-C1D-ND | -2.21 | 122.42 | 124.45 |
| 29 | C | 314 | CLA | O2D-CGD-CBD | 2.21 | 115.20 | 111.27 |
| 39 | Q | 314 | KC1 | O1D-CGD-CBD | -2.21 | 119.96 | 124.48 |
| 29 | M | 308 | CLA | C1B-CHB-C4A | -2.21 | 125.74 | 130.12 |
| 38 | N | 306 | UIX | C41-C40-C39 | -2.21 | 119.83 | 122.92 |
| 29 | H | 307 | CLA | C1B-CHB-C4A | -2.21 | 125.74 | 130.12 |
| 37 | j | 101 | PID | C17-C16-C15 | 2.21 | 128.00 | 123.47 |
| 39 | K | 215 | KC1 | C2A-C3A-C4A | 2.21 | 108.12 | 106.49 |
| 29 | L | 311 | CLA | CHD-C1D-ND | -2.21 | 122.42 | 124.45 |
| 29 | N | 313 | CLA | CMD-C2D-C3D | 2.21 | 132.69 | 127.61 |
| 37 | D | 306 | PID | CM4-C14-C13 | 2.21 | 124.14 | 119.05 |
| 29 | I | 201 | CLA | C1B-CHB-C4A | -2.21 | 125.74 | 130.12 |
| 29 | O | 311 | CLA | C1B-CHB-C4A | -2.21 | 125.75 | 130.12 |
| 38 | L | 302 | UIX | C35-C36-C38 | -2.21 | 116.33 | 123.22 |
| 36 | I | 202 | DD6 | O1-C20-C19 | -2.21 | 111.72 | 113.38 |
| 34 | A | 219 | LMG | O3-C3-C2 | -2.21 | 105.25 | 110.35 |
| 29 | I | 207 | CLA | C1B-CHB-C4A | -2.21 | 125.75 | 130.12 |
| 36 | L | 304 | DD6 | C25-C24-C1 | -2.21 | 120.22 | 126.42 |
| 38 | A | 203 | UIX | C13-C14-C23 | -2.20 | 116.34 | 123.22 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 36 | G | 308 | DD6 | C3-C4-C5 | -2.20 | 118.96 | 123.47 |
| 36 | A | 202 | DD6 | C14-C13-C11 | -2.20 | 122.11 | 125.53 |
| 37 | N | 307 | PID | CM1-C1-C6 | -2.20 | 118.57 | 122.26 |
| 29 | N | 308 | CLA | C1B-CHB-C4A | -2.20 | 125.76 | 130.12 |
| 39 | T | 312 | KC1 | C2A-C3A-C4A | 2.20 | 108.12 | 106.49 |
| 37 | O | 304 | PID | CM2-C5-C4 | -2.20 | 105.16 | 108.98 |
| 34 | b | 734 | LMG | O1-C1-C2 | -2.20 | 104.87 | 108.30 |
| 29 | D | 312 | CLA | C1B-CHB-C4A | -2.20 | 125.76 | 130.12 |
| 36 | K | 203 | DD6 | O1-C20-C21 | -2.20 | 112.42 | 115.06 |
| 39 | M | 305 | KC1 | C1A-C2A-C3A | -2.20 | 105.37 | 107.11 |
| 29 | A | 206 | CLA | C1B-CHB-C4A | -2.20 | 125.76 | 130.12 |
| 29 | E | 315 | CLA | O2D-CGD-CBD | 2.20 | 115.17 | 111.27 |
| 29 | G | 312 | CLA | O2A-CGA-O1A | -2.20 | 118.04 | 123.59 |
| 29 | b | 708 | CLA | CHD-C1D-ND | -2.20 | 122.43 | 124.45 |
| 39 | A | 213 | KC1 | O2D-CGD-O1D | -2.20 | 119.54 | 123.84 |
| 29 | a | 819 | CLA | CHB-C4A-NA | 2.20 | 127.55 | 124.51 |
| 29 | H | 310 | CLA | C1-C2-C3 | -2.20 | 122.25 | 126.04 |
| 29 | B | 314 | CLA | C1B-CHB-C4A | -2.19 | 125.77 | 130.12 |
| 29 | l | 505 | CLA | CHD-C1D-ND | -2.19 | 122.44 | 124.45 |
| 39 | N | 315 | KC1 | C2A-C3A-C4A | 2.19 | 108.11 | 106.49 |
| 36 | A | 201 | DD6 | C25-C24-C1 | -2.19 | 120.26 | 126.42 |
| 38 | T | 306 | UIX | C41-C40-C39 | -2.19 | 119.85 | 122.92 |
| 32 | f | 804 | BCR | C35-C13-C14 | -2.19 | 119.85 | 122.92 |
| 36 | B | 305 | DD6 | C37-C36-C35 | 2.19 | 118.42 | 114.36 |
| 36 | C | 303 | DD6 | C34-C35-C36 | -2.19 | 107.49 | 111.85 |
| 29 | a | 814 | CLA | C1B-CHB-C4A | -2.19 | 125.78 | 130.12 |
| 36 | P | 204 | DD6 | C7-C6-C5 | -2.19 | 119.86 | 122.92 |
| 36 | L | 304 | DD6 | C37-C36-C35 | 2.19 | 118.41 | 114.36 |
| 36 | K | 203 | DD6 | C9-C8-C6 | -2.19 | 120.27 | 126.42 |
| 35 | b | 733 | DGD | O6D-C5D-C6D | 2.19 | 111.08 | 106.67 |
| 29 | b | 716 | CLA | O2D-CGD-CBD | 2.19 | 115.16 | 111.27 |
| 36 | L | 304 | DD6 | C-C1-C2 | -2.19 | 119.86 | 122.92 |
| 37 | D | 305 | PID | O1-C1-C2 | -2.19 | 111.74 | 113.38 |
| 29 | M | 309 | CLA | CHB-C4A-NA | 2.19 | 127.53 | 124.51 |
| 39 | A | 205 | KC1 | O2D-CGD-O1D | -2.19 | 119.56 | 123.84 |
| 34 | b | 730 | LMG | O2-C2-C1 | -2.19 | 104.74 | 110.05 |
| 29 | a | 823 | CLA | CHD-C1D-ND | -2.19 | 122.45 | 124.45 |
| 38 | A | 203 | UIX | C7-C10-C11 | -2.18 | 122.14 | 125.53 |
| 39 | A | 205 | KC1 | O2A-CGA-O1A | -2.18 | 118.13 | 122.67 |
| 36 | B | 305 | DD6 | C3-C4-C5 | -2.18 | 119.00 | 123.47 |
| 36 | D | 301 | DD6 | C15-C14-C13 | 2.18 | 130.61 | 125.99 |
| 36 | I | 203 | DD6 | C32-C33-C34 | -2.18 | 108.71 | 113.64 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | b | 713 | CLA | C1B-CHB-C4A | -2.18 | 125.79 | 130.12 |
| 29 | J | 310 | CLA | O2A-CGA-O1A | -2.18 | 118.08 | 123.59 |
| 29 | L | 307 | CLA | C1B-CHB-C4A | -2.18 | 125.80 | 130.12 |
| 37 | C | 304 | PID | C17-C18-C19 | 2.18 | 129.66 | 124.81 |
| 36 | K | 221 | DD6 | C7-C6-C5 | -2.18 | 119.87 | 122.92 |
| 36 | J | 303 | DD6 | C7-C6-C5 | -2.18 | 119.87 | 122.92 |
| 36 | B | 305 | DD6 | C-C1-C2 | -2.18 | 119.87 | 122.92 |
| 36 | H | 303 | DD6 | C-C1-C2 | -2.18 | 119.87 | 122.92 |
| 29 | L | 313 | CLA | CHD-C1D-ND | -2.18 | 122.45 | 124.45 |
| 36 | D | 304 | DD6 | C7-C6-C5 | -2.18 | 119.87 | 122.92 |
| 39 | L | 306 | KC1 | O2A-CGA-O1A | -2.18 | 118.14 | 122.67 |
| 29 | E | 310 | CLA | C1B-CHB-C4A | -2.18 | 125.80 | 130.12 |
| 32 | b | 729 | BCR | C7-C8-C9 | -2.18 | 122.94 | 126.23 |
| 37 | T | 305 | PID | CM4-C14-C13 | 2.18 | 124.07 | 119.05 |
| 36 | A | 204 | DD6 | C10-C9-C8 | -2.18 | 116.42 | 123.22 |
| 29 | M | 315 | CLA | C1B-CHB-C4A | -2.18 | 125.80 | 130.12 |
| 39 | N | 312 | KC1 | O1D-CGD-CBD | -2.18 | 120.03 | 124.48 |
| 36 | I | 205 | DD6 | O1-C20-C19 | 2.18 | 115.02 | 113.38 |
| 38 | F | 305 | UIX | C14-C23-C26 | -2.18 | 120.30 | 126.42 |
| 29 | F | 312 | CLA | C1B-CHB-C4A | -2.18 | 125.81 | 130.12 |
| 37 | F | 304 | PID | C28-C27-C26 | 2.18 | 113.67 | 109.88 |
| 32 | a | 835 | BCR | C15-C16-C17 | -2.18 | 119.02 | 123.47 |
| 36 | B | 319 | DD6 | C37-C36-C35 | 2.17 | 118.38 | 114.36 |
| 34 | b | 734 | LMG | O2-C2-C1 | -2.17 | 104.77 | 110.05 |
| 36 | J | 302 | DD6 | C37-C36-C35 | 2.17 | 118.38 | 114.36 |
| 36 | I | 203 | DD6 | C3-C4-C5 | -2.17 | 119.02 | 123.47 |
| 36 | J | 303 | DD6 | O1-C20-C21 | 2.17 | 117.66 | 115.06 |
| 32 | a | 834 | BCR | C33-C5-C4 | 2.17 | 117.79 | 113.62 |
| 29 | A | 214 | CLA | C1B-CHB-C4A | -2.17 | 125.82 | 130.12 |
| 36 | J | 302 | DD6 | C3-C4-C5 | -2.17 | 119.03 | 123.47 |
| 36 | A | 201 | DD6 | O1-C20-C21 | -2.17 | 112.45 | 115.06 |
| 29 | I | 213 | CLA | O2A-CGA-O1A | -2.17 | 118.11 | 123.59 |
| 37 | Q | 303 | PID | C17-C18-C19 | 2.17 | 129.64 | 124.81 |
| 35 | G | 320 | DGD | C2G-O2G-C1B | -2.17 | 112.45 | 117.79 |
| 29 | B | 312 | CLA | CHD-C1D-ND | -2.17 | 122.46 | 124.45 |
| 32 | a | 835 | BCR | C37-C22-C21 | -2.17 | 119.88 | 122.92 |
| 36 | O | 303 | DD6 | C4-C3-C2 | -2.17 | 119.03 | 123.47 |
| 29 | P | 212 | CLA | O2A-CGA-O1A | -2.17 | 118.12 | 123.59 |
| 39 | L | 314 | KC1 | O1D-CGD-CBD | -2.17 | 120.05 | 124.48 |
| 34 | K | 219 | LMG | O2-C2-C1 | -2.17 | 104.79 | 110.05 |
| 36 | D | 304 | DD6 | C15-C14-C13 | -2.17 | 121.42 | 125.99 |
| 38 | J | 304 | UIX | C-C7-C10 | -2.17 | 121.42 | 125.99 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 36 | L | 304 | DD6 | C32-C33-C34 | -2.17 | 108.75 | 113.64 |
| 37 | C | 301 | PID | C15-C14-C13 | 2.16 | 122.93 | 117.00 |
| 32 | f | 801 | BCR | C19-C18-C17 | 2.16 | 122.26 | 118.94 |
| 32 | b | 729 | BCR | C34-C9-C8 | 2.16 | 121.49 | 118.08 |
| 29 | K | 212 | CLA | O2A-CGA-O1A | -2.16 | 118.13 | 123.59 |
| 29 | I | 207 | CLA | CHD-C1D-ND | -2.16 | 122.47 | 124.45 |
| 36 | E | 302 | DD6 | C7-C6-C5 | -2.16 | 119.89 | 122.92 |
| 39 | I | 215 | KC1 | C2A-C3A-C4A | 2.16 | 108.09 | 106.49 |
| 39 | J | 312 | KC1 | C2A-C3A-C4A | 2.16 | 108.09 | 106.49 |
| 29 | F | 310 | CLA | O2D-CGD-CBD | 2.16 | 115.11 | 111.27 |
| 39 | F | 309 | KC1 | C2A-C3A-C4A | 2.16 | 108.09 | 106.49 |
| 36 | D | 301 | DD6 | C32-C33-C34 | -2.16 | 108.76 | 113.64 |
| 37 | P | 203 | PID | O4-C12-C13 | 2.16 | 127.50 | 122.89 |
| 36 | B | 303 | DD6 | C3-C4-C5 | -2.16 | 119.05 | 123.47 |
| 29 | a | 801 | CLA | O2A-CGA-O1A | -2.16 | 118.14 | 123.59 |
| 32 | f | 801 | BCR | C2-C1-C6 | 2.16 | 113.80 | 110.48 |
| 29 | b | 726 | CLA | CHD-C1D-ND | -2.16 | 122.47 | 124.45 |
| 36 | m | 101 | DD6 | C28-C27-C29 | 2.16 | 121.11 | 116.84 |
| 29 | b | 736 | CLA | O2A-CGA-O1A | -2.16 | 118.15 | 123.59 |
| 32 | l | 506 | BCR | C35-C13-C12 | 2.16 | 121.47 | 118.08 |
| 36 | J | 301 | DD6 | C7-C6-C5 | -2.16 | 119.90 | 122.92 |
| 29 | b | 707 | CLA | O2A-CGA-O1A | -2.16 | 118.15 | 123.59 |
| 36 | G | 307 | DD6 | O1-C20-C21 | 2.15 | 117.64 | 115.06 |
| 37 | T | 302 | PID | C28-C27-C26 | 2.15 | 113.64 | 109.88 |
| 32 | i | 204 | BCR | C10-C11-C12 | -2.15 | 116.50 | 123.22 |
| 37 | H | 305 | PID | C26-C25-C24 | 2.15 | 111.30 | 109.21 |
| 29 | a | 807 | CLA | CHD-C1D-ND | -2.15 | 122.48 | 124.45 |
| 29 | P | 215 | CLA | O2A-CGA-O1A | -2.15 | 118.16 | 123.59 |
| 29 | I | 209 | CLA | CHD-C1D-ND | -2.15 | 122.48 | 124.45 |
| 29 | b | 723 | CLA | O2A-CGA-O1A | -2.15 | 118.16 | 123.59 |
| 34 | K | 220 | LMG | O2-C2-C1 | -2.15 | 104.83 | 110.05 |
| 29 | H | 308 | CLA | O2A-CGA-O1A | -2.15 | 118.17 | 123.59 |
| 29 | b | 711 | CLA | CHD-C1D-ND | -2.15 | 122.48 | 124.45 |
| 38 | L | 302 | UIX | O2-C27-O4 | -2.15 | 118.70 | 122.96 |
| 36 | I | 204 | DD6 | C37-C36-C35 | 2.15 | 118.33 | 114.36 |
| 29 | b | 709 | CLA | CHD-C1D-ND | -2.15 | 122.48 | 124.45 |
| 36 | M | 302 | DD6 | O1-C20-C15 | -2.15 | 57.18 | 58.96 |
| 39 | N | 312 | KC1 | C2A-C3A-C4A | 2.15 | 108.08 | 106.49 |
| 36 | T | 303 | DD6 | C25-C24-C1 | -2.15 | 120.39 | 126.42 |
| 36 | N | 303 | DD6 | C9-C8-C6 | -2.15 | 120.39 | 126.42 |
| 29 | Q | 310 | CLA | O2A-CGA-O1A | -2.14 | 118.18 | 123.59 |
| 34 | A | 219 | LMG | O2-C2-C1 | -2.14 | 104.84 | 110.05 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 36 | K | 205 | DD6 | C10-C9-C8 | -2.14 | 116.53 | 123.22 |
| 37 | T | 307 | PID | CM4-C14-C13 | 2.14 | 123.99 | 119.05 |
| 29 | P | 212 | CLA | CHD-C1D-ND | -2.14 | 122.48 | 124.45 |
| 38 | P | 207 | UIX | C29-C26-C30 | -2.14 | 119.92 | 122.92 |
| 29 | E | 306 | CLA | O2A-CGA-O1A | -2.14 | 118.19 | 123.59 |
| 29 | N | 311 | CLA | CHD-C1D-ND | -2.14 | 122.49 | 124.45 |
| 39 | C | 312 | KC1 | C2A-C3A-C4A | 2.14 | 108.07 | 106.49 |
| 38 | E | 304 | UIX | C18-O2-C27 | -2.14 | 113.91 | 117.90 |
| 39 | B | 313 | KC1 | CBD-CHA-C1A | 2.14 | 132.87 | 128.88 |
| 29 | a | 818 | CLA | O2A-CGA-O1A | -2.14 | 118.19 | 123.59 |
| 29 | b | 717 | CLA | CHB-C4A-NA | 2.14 | 127.47 | 124.51 |
| 36 | K | 221 | DD6 | C21-C20-C19 | 2.14 | 116.69 | 114.28 |
| 34 | j | 102 | LMG | O2-C2-C1 | -2.14 | 104.85 | 110.05 |
| 29 | a | 815 | CLA | CHD-C1D-ND | -2.14 | 122.49 | 124.45 |
| 39 | C | 312 | KC1 | C1A-C2A-C3A | -2.14 | 105.42 | 107.11 |
| 29 | h | 201 | CLA | CHD-C1D-ND | -2.14 | 122.49 | 124.45 |
| 32 | m | 103 | BCR | C33-C5-C6 | -2.14 | 122.13 | 124.53 |
| 36 | h | 202 | DD6 | C4-C3-C2 | -2.14 | 119.10 | 123.47 |
| 39 | O | 312 | KC1 | C2A-C3A-C4A | 2.14 | 108.07 | 106.49 |
| 36 | M | 304 | DD6 | O1-C20-C21 | -2.13 | 112.50 | 115.06 |
| 29 | A | 211 | CLA | O2A-CGA-O1A | -2.13 | 118.21 | 123.59 |
| 36 | F | 303 | DD6 | C7-C6-C5 | -2.13 | 119.94 | 122.92 |
| 38 | C | 306 | UIX | C41-C40-C39 | -2.13 | 119.94 | 122.92 |
| 29 | L | 316 | CLA | O2D-CGD-CBD | 2.13 | 115.06 | 111.27 |
| 39 | H | 314 | KC1 | C2A-C3A-C4A | 2.13 | 108.07 | 106.49 |
| 39 | F | 309 | KC1 | O2D-CGD-O1D | -2.13 | 119.67 | 123.84 |
| 36 | T | 303 | DD6 | C12-C11-C10 | -2.13 | 119.94 | 122.92 |
| 38 | C | 306 | UIX | C29-C26-C30 | -2.13 | 119.94 | 122.92 |
| 38 | T | 306 | UIX | C10-C11-C13 | 2.13 | 122.21 | 118.94 |
| 36 | I | 206 | DD6 | C14-C13-C11 | -2.13 | 122.23 | 125.53 |
| 29 | b | 707 | CLA | O1D-CGD-CBD | 2.13 | 128.84 | 124.48 |
| 34 | P | 201 | LMG | O1-C7-C8 | -2.13 | 105.77 | 110.90 |
| 29 | a | 826 | CLA | O2D-CGD-CBD | 2.13 | 115.05 | 111.27 |
| 29 | a | 809 | CLA | O2A-CGA-O1A | -2.13 | 118.22 | 123.59 |
| 29 | L | 313 | CLA | O2A-CGA-O1A | -2.13 | 118.22 | 123.59 |
| 29 | M | 314 | CLA | CHB-C4A-NA | 2.13 | 127.45 | 124.51 |
| 29 | J | 311 | CLA | O2A-CGA-O1A | -2.13 | 118.23 | 123.59 |
| 29 | H | 310 | CLA | O2A-CGA-O1A | -2.13 | 118.23 | 123.59 |
| 32 | b | 735 | BCR | C34-C9-C8 | 2.13 | 121.43 | 118.08 |
| 29 | B | 315 | CLA | C1B-CHB-C4A | -2.13 | 125.91 | 130.12 |
| 37 | P | 202 | PID | C19-C20-C21 | 2.13 | 130.34 | 127.31 |
| 34 | b | 732 | LMG | C38-C37-C36 | -2.12 | 103.64 | 114.42 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | f | 805 | CLA | C1B-CHB-C4A | -2.12 | 125.91 | 130.12 |
| 38 | C | 306 | UIX | C10-C11-C13 | 2.12 | 122.20 | 118.94 |
| 29 | M | 311 | CLA | CHD-C1D-ND | -2.12 | 122.50 | 124.45 |
| 29 | O | 311 | CLA | CHD-C1D-ND | -2.12 | 122.50 | 124.45 |
| 36 | E | 302 | DD6 | C26-C25-C24 | -2.12 | 116.59 | 123.22 |
| 29 | B | 308 | CLA | C1-C2-C3 | -2.12 | 122.37 | 126.04 |
| 29 | a | 804 | CLA | C1-C2-C3 | -2.12 | 122.37 | 126.04 |
| 32 | a | 834 | BCR | C36-C18-C17 | -2.12 | 119.95 | 122.92 |
| 29 | a | 822 | CLA | O2A-CGA-O1A | -2.12 | 118.24 | 123.59 |
| 36 | K | 203 | DD6 | C15-C14-C13 | -2.12 | 121.51 | 125.99 |
| 37 | h | 204 | PID | CM4-C14-C13 | 2.12 | 123.94 | 119.05 |
| 32 | b | 728 | BCR | C36-C18-C17 | -2.12 | 119.95 | 122.92 |
| 29 | a | 821 | CLA | O2A-CGA-O1A | -2.12 | 118.24 | 123.59 |
| 29 | N | 313 | CLA | C1B-CHB-C4A | -2.12 | 125.92 | 130.12 |
| 36 | J | 302 | DD6 | C33-C34-C35 | -2.12 | 107.40 | 110.30 |
| 39 | E | 312 | KC1 | CAC-C3C-C4C | 2.12 | 127.56 | 124.81 |
| 29 | b | 719 | CLA | CHD-C1D-ND | -2.12 | 122.51 | 124.45 |
| 29 | C | 311 | CLA | CHD-C1D-ND | -2.12 | 122.51 | 124.45 |
| 36 | I | 206 | DD6 | C10-C9-C8 | -2.12 | 116.61 | 123.22 |
| 29 | E | 311 | CLA | CHD-C1D-ND | -2.12 | 122.51 | 124.45 |
| 29 | K | 210 | CLA | C1-C2-C3 | -2.12 | 123.33 | 126.75 |
| 39 | A | 213 | KC1 | C2A-C3A-C4A | 2.12 | 108.06 | 106.49 |
| 37 | Q | 306 | PID | CM2-C5-C4 | -2.12 | 105.31 | 108.98 |
| 37 | P | 202 | PID | CM4-C14-C13 | 2.12 | 123.93 | 119.05 |
| 32 | b | 728 | BCR | C1-C6-C7 | 2.12 | 121.76 | 115.78 |
| 39 | Q | 311 | KC1 | C2A-C3A-C4A | 2.11 | 108.06 | 106.49 |
| 37 | O | 301 | PID | C17-C18-C19 | 2.11 | 129.52 | 124.81 |
| 37 | j | 101 | PID | CM4-C14-C13 | 2.11 | 123.93 | 119.05 |
| 29 | b | 722 | CLA | O2A-CGA-O1A | -2.11 | 118.26 | 123.59 |
| 36 | J | 303 | DD6 | C19-C18-C17 | -2.11 | 106.69 | 110.77 |
| 36 | L | 304 | DD6 | C7-C6-C5 | -2.11 | 119.96 | 122.92 |
| 32 | f | 801 | BCR | C35-C13-C14 | -2.11 | 119.96 | 122.92 |
| 37 | N | 307 | PID | CM3-C5-C4 | -2.11 | 105.31 | 108.98 |
| 29 | K | 209 | CLA | CHD-C1D-ND | -2.11 | 122.51 | 124.45 |
| 37 | E | 301 | PID | CM3-C5-C4 | -2.11 | 105.31 | 108.98 |
| 36 | A | 201 | DD6 | C37-C36-C35 | 2.11 | 118.27 | 114.36 |
| 34 | b | 732 | LMG | O3-C3-C2 | -2.11 | 105.47 | 110.35 |
| 32 | a | 834 | BCR | C8-C7-C6 | -2.11 | 121.27 | 127.20 |
| 34 | P | 201 | LMG | O2-C2-C1 | -2.11 | 104.92 | 110.05 |
| 39 | O | 310 | KC1 | CMD-C2D-C1D | -2.11 | 125.22 | 128.46 |
| 29 | b | 706 | CLA | C1B-CHB-C4A | -2.11 | 125.94 | 130.12 |
| 35 | j | 103 | DGD | O2G-C1B-O1B | -2.11 | 118.61 | 123.70 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | l | 504 | CLA | C1-C2-C3 | -2.11 | 122.40 | 126.04 |
| 29 | a | 827 | CLA | O2D-CGD-CBD | 2.11 | 115.02 | 111.27 |
| 29 | I | 214 | CLA | O2A-CGA-O1A | -2.11 | 118.27 | 123.59 |
| 32 | i | 204 | BCR | C29-C30-C25 | 2.11 | 113.73 | 110.48 |
| 39 | M | 312 | KC1 | O2D-CGD-O1D | -2.11 | 119.72 | 123.84 |
| 29 | a | 818 | CLA | CHD-C1D-ND | -2.11 | 122.52 | 124.45 |
| 29 | l | 503 | CLA | O2A-CGA-O1A | -2.11 | 118.27 | 123.59 |
| 36 | K | 204 | DD6 | C37-C36-C35 | 2.11 | 118.26 | 114.36 |
| 29 | b | 723 | CLA | CHD-C1D-ND | -2.11 | 122.52 | 124.45 |
| 36 | K | 221 | DD6 | C3-C4-C5 | -2.11 | 119.16 | 123.47 |
| 29 | A | 209 | CLA | O2A-CGA-O1A | -2.10 | 118.28 | 123.59 |
| 36 | B | 305 | DD6 | C10-C9-C8 | -2.10 | 116.65 | 123.22 |
| 29 | K | 210 | CLA | CHD-C1D-ND | -2.10 | 122.52 | 124.45 |
| 36 | J | 302 | DD6 | C20-C19-C18 | -2.10 | 108.59 | 112.75 |
| 37 | H | 302 | PID | CM4-C14-C13 | 2.10 | 123.90 | 119.05 |
| 29 | Q | 307 | CLA | O2A-CGA-O1A | -2.10 | 118.29 | 123.59 |
| 29 | b | 717 | CLA | CHD-C1D-ND | -2.10 | 122.52 | 124.45 |
| 29 | a | 809 | CLA | C1-C2-C3 | -2.10 | 122.41 | 126.04 |
| 29 | B | 310 | CLA | O2A-CGA-O1A | -2.10 | 118.29 | 123.59 |
| 29 | i | 202 | CLA | O2A-CGA-O1A | -2.10 | 118.29 | 123.59 |
| 36 | A | 201 | DD6 | C-C1-C2 | -2.10 | 119.98 | 122.92 |
| 29 | a | 810 | CLA | C1B-CHB-C4A | -2.10 | 125.96 | 130.12 |
| 36 | I | 202 | DD6 | C10-C9-C8 | -2.10 | 116.67 | 123.22 |
| 39 | H | 309 | KC1 | C3D-CAD-CBD | -2.10 | 104.84 | 107.61 |
| 29 | E | 308 | CLA | O2A-CGA-O1A | -2.10 | 118.30 | 123.59 |
| 38 | F | 305 | UIX | C-C7-C10 | -2.10 | 121.56 | 125.99 |
| 29 | A | 209 | CLA | CHD-C1D-ND | -2.10 | 122.53 | 124.45 |
| 29 | A | 212 | CLA | CHD-C1D-ND | -2.10 | 122.53 | 124.45 |
| 29 | G | 313 | CLA | CHD-C1D-ND | -2.10 | 122.53 | 124.45 |
| 29 | L | 310 | CLA | CHD-C1D-ND | -2.10 | 122.53 | 124.45 |
| 39 | H | 309 | KC1 | C2A-C3A-C4A | 2.10 | 108.04 | 106.49 |
| 36 | I | 205 | DD6 | O1-C20-C15 | -2.10 | 57.22 | 58.96 |
| 29 | a | 825 | CLA | O2A-CGA-O1A | -2.10 | 118.30 | 123.59 |
| 39 | H | 314 | KC1 | O2D-CGD-O1D | -2.10 | 119.74 | 123.84 |
| 29 | a | 803 | CLA | CHD-C1D-ND | -2.10 | 122.53 | 124.45 |
| 39 | P | 211 | KC1 | C1A-C2A-C3A | -2.10 | 105.45 | 107.11 |
| 36 | C | 303 | DD6 | C-C1-C2 | -2.10 | 119.99 | 122.92 |
| 36 | G | 308 | DD6 | C37-C36-C35 | 2.09 | 118.23 | 114.36 |
| 36 | K | 202 | DD6 | C24-C1-C2 | 2.09 | 122.15 | 118.94 |
| 29 | I | 216 | CLA | O2A-CGA-O1A | -2.09 | 118.31 | 123.59 |
| 29 | N | 308 | CLA | O2A-CGA-O1A | -2.09 | 118.31 | 123.59 |
| 29 | b | 714 | CLA | O2D-CGD-CBD | 2.09 | 114.99 | 111.27 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 36 | K | 205 | DD6 | C32-C33-C34 | -2.09 | 108.92 | 113.64 |
| 36 | K | 202 | DD6 | C7-C6-C5 | -2.09 | 119.99 | 122.92 |
| 29 | K | 209 | CLA | O2A-CGA-O1A | -2.09 | 118.31 | 123.59 |
| 34 | P | 201 | LMG | O7-C10-O9 | -2.09 | 118.65 | 123.70 |
| 29 | A | 218 | CLA | CHD-C1D-ND | -2.09 | 122.53 | 124.45 |
| 29 | l | 502 | CLA | C1-C2-C3 | -2.09 | 122.43 | 126.04 |
| 32 | l | 507 | BCR | C23-C24-C25 | -2.09 | 121.33 | 127.20 |
| 36 | m | 101 | DD6 | C7-C6-C8 | 2.09 | 121.37 | 118.08 |
| 36 | L | 304 | DD6 | C19-C18-C17 | 2.09 | 114.81 | 110.77 |
| 36 | D | 301 | DD6 | C12-C11-C10 | -2.09 | 120.00 | 122.92 |
| 32 | b | 728 | BCR | C10-C11-C12 | -2.09 | 116.70 | 123.22 |
| 37 | P | 208 | PID | C15-C14-C13 | 2.09 | 122.72 | 117.00 |
| 29 | b | 706 | CLA | O2A-CGA-O1A | -2.09 | 118.32 | 123.59 |
| 36 | M | 301 | DD6 | C-C1-C2 | -2.09 | 120.00 | 122.92 |
| 36 | A | 204 | DD6 | C25-C24-C1 | -2.09 | 120.55 | 126.42 |
| 29 | a | 807 | CLA | C1-C2-C3 | -2.09 | 122.43 | 126.04 |
| 29 | Q | 313 | CLA | O2A-CGA-O1A | -2.09 | 118.33 | 123.59 |
| 29 | A | 212 | CLA | O2A-CGA-O1A | -2.09 | 118.33 | 123.59 |
| 29 | M | 314 | CLA | O2A-CGA-O1A | -2.09 | 118.33 | 123.59 |
| 29 | a | 802 | CLA | CHD-C1D-ND | -2.09 | 122.54 | 124.45 |
| 29 | b | 731 | CLA | C1-C2-C3 | -2.08 | 122.44 | 126.04 |
| 39 | M | 305 | KC1 | O2A-CGA-O1A | -2.08 | 118.34 | 122.67 |
| 32 | a | 838 | BCR | C10-C11-C12 | -2.08 | 116.72 | 123.22 |
| 29 | T | 308 | CLA | O2A-CGA-O1A | -2.08 | 118.34 | 123.59 |
| 29 | a | 819 | CLA | CHD-C1D-ND | -2.08 | 122.54 | 124.45 |
| 29 | a | 827 | CLA | CHD-C1D-ND | -2.08 | 122.54 | 124.45 |
| 29 | D | 311 | CLA | CHD-C1D-ND | -2.08 | 122.54 | 124.45 |
| 39 | G | 318 | KC1 | C1A-C2A-C3A | -2.08 | 105.46 | 107.11 |
| 29 | a | 819 | CLA | O2A-CGA-O1A | -2.08 | 118.34 | 123.59 |
| 36 | J | 303 | DD6 | C33-C34-C35 | -2.08 | 107.46 | 110.30 |
| 36 | F | 303 | DD6 | C32-C33-C34 | -2.08 | 108.95 | 113.64 |
| 39 | Q | 311 | KC1 | CAC-C3C-C4C | 2.08 | 127.51 | 124.81 |
| 29 | b | 707 | CLA | CHD-C1D-ND | -2.08 | 122.54 | 124.45 |
| 29 | A | 217 | CLA | O2A-CGA-O1A | -2.08 | 118.35 | 123.59 |
| 34 | K | 219 | LMG | O7-C10-O9 | -2.08 | 118.68 | 123.70 |
| 29 | A | 209 | CLA | C1-C2-C3 | -2.08 | 122.45 | 126.04 |
| 29 | H | 308 | CLA | CHD-C1D-ND | -2.08 | 122.55 | 124.45 |
| 39 | P | 213 | KC1 | C2A-C3A-C4A | 2.08 | 108.03 | 106.49 |
| 29 | a | 837 | CLA | O2A-CGA-O1A | -2.08 | 118.35 | 123.59 |
| 36 | K | 202 | DD6 | C32-C33-C34 | -2.08 | 108.95 | 113.64 |
| 29 | L | 307 | CLA | O2A-CGA-O1A | -2.08 | 118.36 | 123.59 |
| 36 | K | 205 | DD6 | C28-C27-C29 | 2.07 | 120.95 | 116.84 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 37 | D | 306 | PID | O4-C12-C13 | 2.07 | 127.31 | 122.89 |
| 36 | L | 304 | DD6 | C20-C19-C18 | 2.07 | 116.85 | 112.75 |
| 29 | Q | 310 | CLA | CHD-C1D-ND | -2.07 | 122.55 | 124.45 |
| 32 | a | 838 | BCR | C29-C30-C25 | 2.07 | 113.67 | 110.48 |
| 36 | A | 204 | DD6 | C3-C4-C5 | -2.07 | 119.23 | 123.47 |
| 29 | C | 311 | CLA | O2A-CGA-O1A | -2.07 | 118.36 | 123.59 |
| 29 | a | 820 | CLA | O2A-CGA-O1A | -2.07 | 118.36 | 123.59 |
| 39 | T | 310 | KC1 | O2D-CGD-O1D | -2.07 | 119.79 | 123.84 |
| 39 | P | 211 | KC1 | O2D-CGD-O1D | -2.07 | 119.79 | 123.84 |
| 29 | I | 210 | CLA | CHD-C1D-ND | -2.07 | 122.55 | 124.45 |
| 29 | C | 308 | CLA | O2A-CGA-O1A | -2.07 | 118.36 | 123.59 |
| 29 | P | 210 | CLA | O2A-CGA-O1A | -2.07 | 118.36 | 123.59 |
| 32 | b | 735 | BCR | C27-C26-C25 | -2.07 | 119.72 | 122.73 |
| 29 | i | 201 | CLA | O2A-CGA-O1A | -2.07 | 118.37 | 123.59 |
| 29 | B | 309 | CLA | O2A-CGA-O1A | -2.07 | 118.37 | 123.59 |
| 36 | I | 204 | DD6 | C7-C6-C5 | -2.07 | 120.03 | 122.92 |
| 36 | L | 304 | DD6 | C12-C11-C10 | -2.07 | 120.03 | 122.92 |
| 29 | L | 308 | CLA | O2A-CGA-O1A | -2.07 | 118.37 | 123.59 |
| 29 | a | 826 | CLA | CHD-C1D-ND | -2.07 | 122.55 | 124.45 |
| 37 | O | 305 | PID | CM5-C21-C20 | -2.07 | 120.03 | 122.92 |
| 36 | T | 303 | DD6 | O1-C20-C21 | -2.07 | 112.58 | 115.06 |
| 29 | E | 315 | CLA | O2A-CGA-O1A | -2.07 | 118.38 | 123.59 |
| 29 | N | 309 | CLA | O2A-CGA-O1A | -2.07 | 118.38 | 123.59 |
| 32 | i | 204 | BCR | C37-C22-C21 | -2.07 | 120.03 | 122.92 |
| 29 | a | 822 | CLA | C1-C2-C3 | -2.07 | 122.47 | 126.04 |
| 29 | H | 315 | CLA | CHD-C1D-ND | -2.07 | 122.56 | 124.45 |
| 29 | K | 211 | CLA | O2A-CGA-O1A | -2.07 | 118.38 | 123.59 |
| 29 | O | 308 | CLA | O2A-CGA-O1A | -2.07 | 118.38 | 123.59 |
| 38 | E | 304 | UIX | C37-C34-C30 | -2.07 | 119.24 | 123.47 |
| 34 | j | 102 | LMG | O1-C7-C8 | -2.07 | 105.91 | 110.90 |
| 29 | D | 308 | CLA | O2A-CGA-O1A | -2.07 | 118.38 | 123.59 |
| 29 | N | 309 | CLA | CHD-C1D-ND | -2.07 | 122.56 | 124.45 |
| 29 | b | 708 | CLA | O2A-CGA-O1A | -2.06 | 118.38 | 123.59 |
| 29 | f | 805 | CLA | O2A-CGA-O1A | -2.06 | 118.38 | 123.59 |
| 29 | H | 307 | CLA | O2A-CGA-O1A | -2.06 | 118.38 | 123.59 |
| 29 | b | 711 | CLA | O2D-CGD-CBD | 2.06 | 114.94 | 111.27 |
| 35 | j | 105 | DGD | O2G-C1B-O1B | -2.06 | 118.71 | 123.70 |
| 29 | M | 306 | CLA | O2A-CGA-O1A | -2.06 | 118.38 | 123.59 |
| 39 | A | 213 | KC1 | CBD-CHA-C1A | 2.06 | 132.73 | 128.88 |
| 36 | B | 319 | DD6 | C24-C1-C2 | 2.06 | 122.11 | 118.94 |
| 32 | a | 834 | BCR | C15-C16-C17 | -2.06 | 119.25 | 123.47 |
| 36 | K | 204 | DD6 | O1-C20-C15 | -2.06 | 57.25 | 58.96 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | L | 308 | CLA | CHD-C1D-ND | -2.06 | 122.56 | 124.45 |
| 29 | b | 715 | CLA | O2D-CGD-CBD | 2.06 | 114.93 | 111.27 |
| 36 | J | 302 | DD6 | C23-C16-C22 | 2.06 | 110.41 | 107.37 |
| 39 | T | 315 | KC1 | O2D-CGD-O1D | -2.06 | 119.81 | 123.84 |
| 37 | Q | 301 | PID | CM4-C14-C13 | 2.06 | 123.81 | 119.05 |
| 36 | P | 204 | DD6 | C4-C3-C2 | -2.06 | 119.25 | 123.47 |
| 36 | G | 308 | DD6 | O1-C20-C19 | 2.06 | 114.93 | 113.38 |
| 36 | M | 303 | DD6 | O1-C20-C15 | -2.06 | 57.25 | 58.96 |
| 29 | A | 218 | CLA | O2A-CGA-O1A | -2.06 | 118.39 | 123.59 |
| 34 | b | 734 | LMG | O7-C10-O9 | -2.06 | 118.73 | 123.70 |
| 36 | B | 301 | DD6 | C25-C26-C27 | -2.06 | 120.60 | 126.58 |
| 39 | T | 310 | KC1 | C2A-C3A-C4A | 2.06 | 108.01 | 106.49 |
| 38 | C | 306 | UIX | C21-C15-C20 | -2.06 | 108.63 | 110.47 |
| 32 | l | 507 | BCR | C34-C9-C10 | -2.06 | 120.04 | 122.92 |
| 29 | a | 808 | CLA | CHD-C1D-ND | -2.06 | 122.56 | 124.45 |
| 38 | J | 304 | UIX | C41-C40-C38 | 2.06 | 121.32 | 118.08 |
| 36 | B | 303 | DD6 | C34-C35-C36 | -2.06 | 107.76 | 111.85 |
| 29 | b | 714 | CLA | C1-C2-C3 | -2.06 | 122.49 | 126.04 |
| 29 | a | 807 | CLA | O2A-CGA-O1A | -2.06 | 118.40 | 123.59 |
| 36 | A | 204 | DD6 | C14-C13-C11 | -2.06 | 122.34 | 125.53 |
| 29 | I | 214 | CLA | CHD-C1D-ND | -2.06 | 122.56 | 124.45 |
| 37 | D | 307 | PID | C17-C18-C19 | 2.06 | 129.38 | 124.81 |
| 29 | b | 717 | CLA | O2A-CGA-O1A | -2.06 | 118.41 | 123.59 |
| 29 | E | 311 | CLA | O2A-CGA-O1A | -2.06 | 118.41 | 123.59 |
| 29 | b | 731 | CLA | O2A-CGA-O1A | -2.05 | 118.41 | 123.59 |
| 29 | K | 213 | CLA | O2A-CGA-O1A | -2.05 | 118.41 | 123.59 |
| 36 | J | 302 | DD6 | C19-C18-C17 | -2.05 | 106.81 | 110.77 |
| 29 | a | 817 | CLA | CHD-C1D-ND | -2.05 | 122.57 | 124.45 |
| 29 | G | 311 | CLA | CHD-C1D-ND | -2.05 | 122.57 | 124.45 |
| 39 | B | 313 | KC1 | C1A-C2A-C3A | -2.05 | 105.48 | 107.11 |
| 37 | Q | 304 | PID | CM4-C14-C13 | 2.05 | 123.79 | 119.05 |
| 29 | b | 710 | CLA | CHD-C1D-ND | -2.05 | 122.57 | 124.45 |
| 36 | L | 303 | DD6 | C25-C26-C27 | -2.05 | 120.62 | 126.58 |
| 29 | L | 316 | CLA | O2A-CGA-O1A | -2.05 | 118.41 | 123.59 |
| 29 | P | 209 | CLA | O2A-CGA-O1A | -2.05 | 118.41 | 123.59 |
| 29 | E | 309 | CLA | CHD-C1D-ND | -2.05 | 122.57 | 124.45 |
| 39 | G | 318 | KC1 | O1D-CGD-CBD | -2.05 | 120.28 | 124.48 |
| 29 | b | 703 | CLA | O2A-CGA-O1A | -2.05 | 118.42 | 123.59 |
| 36 | I | 203 | DD6 | C9-C8-C6 | -2.05 | 120.66 | 126.42 |
| 35 | B | 318 | DGD | C3E-C4E-C5E | 2.05 | 113.90 | 110.24 |
| 29 | G | 316 | CLA | O2A-CGA-O1A | -2.05 | 118.42 | 123.59 |
| 29 | I | 211 | CLA | O2A-CGA-O1A | -2.05 | 118.42 | 123.59 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | a | 806 | CLA | CHD-C1D-ND | -2.05 | 122.57 | 124.45 |
| 32 | f | 801 | BCR | C11-C12-C13 | -2.05 | 120.66 | 126.42 |
| 29 | l | 504 | CLA | O2A-CGA-O1A | -2.05 | 118.42 | 123.59 |
| 38 | A | 203 | UIX | C29-C26-C23 | 2.05 | 121.31 | 118.08 |
| 37 | T | 305 | PID | C26-C25-C24 | 2.05 | 111.20 | 109.21 |
| 29 | Q | 308 | CLA | O2A-CGA-O1A | -2.05 | 118.42 | 123.59 |
| 29 | l | 510 | CLA | CHD-C1D-ND | -2.05 | 122.57 | 124.45 |
| 39 | O | 312 | KC1 | CAC-C3C-C4C | 2.05 | 127.47 | 124.81 |
| 29 | H | 313 | CLA | O2A-CGA-O1A | -2.05 | 118.42 | 123.59 |
| 29 | M | 309 | CLA | CHD-C1D-ND | -2.05 | 122.57 | 124.45 |
| 29 | E | 314 | CLA | CHD-C1D-ND | -2.05 | 122.57 | 124.45 |
| 35 | m | 102 | DGD | O2G-C1B-O1B | -2.05 | 118.76 | 123.70 |
| 29 | I | 209 | CLA | O2A-CGA-O1A | -2.05 | 118.43 | 123.59 |
| 36 | K | 204 | DD6 | C-C1-C2 | -2.05 | 120.06 | 122.92 |
| 36 | A | 201 | DD6 | C3-C4-C5 | -2.05 | 119.28 | 123.47 |
| 36 | m | 101 | DD6 | C34-C35-C36 | -2.05 | 107.78 | 111.85 |
| 32 | a | 835 | BCR | C20-C19-C18 | -2.05 | 120.67 | 126.42 |
| 29 | F | 310 | CLA | C1B-CHB-C4A | -2.04 | 126.07 | 130.12 |
| 36 | B | 302 | DD6 | C-C1-C24 | 2.04 | 121.30 | 118.08 |
| 29 | T | 309 | CLA | CHD-C1D-ND | -2.04 | 122.58 | 124.45 |
| 29 | i | 203 | CLA | O2A-CGA-O1A | -2.04 | 118.44 | 123.59 |
| 32 | b | 729 | BCR | C38-C26-C27 | 2.04 | 117.54 | 113.62 |
| 36 | K | 205 | DD6 | C7-C6-C8 | 2.04 | 121.30 | 118.08 |
| 29 | a | 831 | CLA | O2A-CGA-O1A | -2.04 | 118.44 | 123.59 |
| 29 | T | 311 | CLA | CHD-C1D-ND | -2.04 | 122.58 | 124.45 |
| 36 | G | 306 | DD6 | C10-C9-C8 | -2.04 | 116.84 | 123.22 |
| 29 | T | 314 | CLA | CED-O2D-CGD | 2.04 | 120.55 | 115.94 |
| 29 | G | 316 | CLA | C1-C2-C3 | -2.04 | 122.51 | 126.04 |
| 36 | L | 305 | DD6 | C25-C24-C1 | -2.04 | 120.69 | 126.42 |
| 32 | b | 729 | BCR | C16-C15-C14 | -2.04 | 119.30 | 123.47 |
| 39 | L | 306 | KC1 | CHD-C4C-NC | 2.04 | 127.30 | 124.20 |
| 36 | Q | 302 | DD6 | O1-C20-C21 | -2.04 | 112.61 | 115.06 |
| 36 | E | 302 | DD6 | C-C1-C24 | 2.04 | 121.29 | 118.08 |
| 29 | J | 313 | CLA | CHD-C1D-ND | -2.04 | 122.58 | 124.45 |
| 39 | K | 215 | KC1 | CAA-CBA-CGA | -2.04 | 116.78 | 127.26 |
| 36 | B | 303 | DD6 | C37-C36-C35 | 2.04 | 118.13 | 114.36 |
| 36 | B | 305 | DD6 | C14-C13-C11 | -2.04 | 122.37 | 125.53 |
| 38 | T | 306 | UIX | C1-C3-C5 | -2.04 | 108.72 | 112.75 |
| 29 | C | 314 | CLA | O2A-CGA-O1A | -2.04 | 118.45 | 123.59 |
| 32 | l | 507 | BCR | C11-C12-C13 | -2.04 | 120.69 | 126.42 |
| 29 | K | 209 | CLA | C1-C2-C3 | -2.04 | 122.52 | 126.04 |
| 37 | T | 302 | PID | CM4-C14-C13 | 2.04 | 123.75 | 119.05 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | l | 502 | CLA | O2D-CGD-CBD | 2.04 | 114.89 | 111.27 |
| 29 | l | 502 | CLA | O2A-CGA-O1A | -2.04 | 118.46 | 123.59 |
| 36 | A | 204 | DD6 | O1-C20-C21 | -2.03 | 112.62 | 115.06 |
| 29 | b | 717 | CLA | C1-C2-C3 | -2.03 | 122.52 | 126.04 |
| 29 | A | 217 | CLA | C1-C2-C3 | -2.03 | 122.52 | 126.04 |
| 29 | A | 208 | CLA | O2A-CGA-O1A | -2.03 | 118.46 | 123.59 |
| 29 | G | 301 | CLA | O2A-CGA-O1A | -2.03 | 118.46 | 123.59 |
| 38 | A | 203 | UIX | C41-C40-C38 | 2.03 | 121.28 | 118.08 |
| 38 | Q | 305 | UIX | C41-C40-C39 | -2.03 | 120.07 | 122.92 |
| 36 | L | 303 | DD6 | C21-C20-C15 | -2.03 | 118.85 | 122.26 |
| 29 | T | 314 | CLA | O2D-CGD-CBD | 2.03 | 114.88 | 111.27 |
| 29 | M | 310 | CLA | CHD-C1D-ND | -2.03 | 122.59 | 124.45 |
| 39 | E | 307 | KC1 | O2D-CGD-O1D | -2.03 | 119.86 | 123.84 |
| 36 | K | 204 | DD6 | C7-C6-C5 | -2.03 | 120.08 | 122.92 |
| 38 | E | 304 | UIX | C12-C11-C10 | 2.03 | 121.28 | 118.08 |
| 29 | a | 816 | CLA | CHD-C1D-ND | -2.03 | 122.59 | 124.45 |
| 35 | j | 105 | DGD | O6D-C5D-C6D | 2.03 | 110.77 | 106.67 |
| 37 | C | 302 | PID | CM4-C14-C13 | 2.03 | 123.73 | 119.05 |
| 36 | K | 205 | DD6 | C33-C34-C35 | -2.03 | 107.52 | 110.30 |
| 36 | B | 302 | DD6 | C3-C4-C5 | -2.03 | 119.31 | 123.47 |
| 29 | T | 314 | CLA | O2A-CGA-O1A | -2.03 | 118.47 | 123.59 |
| 29 | I | 216 | CLA | CHD-C1D-ND | -2.03 | 122.59 | 124.45 |
| 29 | a | 815 | CLA | O2A-CGA-O1A | -2.03 | 118.24 | 123.30 |
| 35 | j | 103 | DGD | O3G-C3G-C2G | -2.03 | 106.01 | 110.90 |
| 29 | A | 207 | CLA | O2A-CGA-O1A | -2.03 | 118.47 | 123.59 |
| 39 | N | 312 | KC1 | O2D-CGD-O1D | -2.03 | 119.87 | 123.84 |
| 29 | I | 212 | CLA | C1-C2-C3 | -2.03 | 122.54 | 126.04 |
| 29 | E | 311 | CLA | O2D-CGD-CBD | 2.03 | 114.87 | 111.27 |
| 29 | J | 305 | CLA | CHD-C1D-ND | -2.03 | 122.59 | 124.45 |
| 29 | a | 802 | CLA | O2A-CGA-O1A | -2.03 | 118.48 | 123.59 |
| 36 | K | 203 | DD6 | C4-C3-C2 | -2.03 | 119.33 | 123.47 |
| 37 | F | 306 | PID | C6-C7-C8 | -2.02 | 121.71 | 125.99 |
| 36 | B | 303 | DD6 | C12-C11-C13 | 2.02 | 121.27 | 118.08 |
| 29 | L | 312 | CLA | O2A-CGA-O1A | -2.02 | 118.48 | 123.59 |
| 35 | j | 106 | DGD | O2G-C1B-O1B | -2.02 | 118.81 | 123.70 |
| 29 | b | 709 | CLA | O2A-CGA-O1A | -2.02 | 118.48 | 123.59 |
| 34 | E | 316 | LMG | C1-O6-C5 | 2.02 | 117.66 | 113.69 |
| 37 | C | 305 | PID | CM4-C14-C13 | 2.02 | 123.71 | 119.05 |
| 39 | P | 211 | KC1 | CHD-C4C-NC | 2.02 | 127.27 | 124.20 |
| 39 | P | 213 | KC1 | C1A-C2A-C3A | -2.02 | 105.51 | 107.11 |
| 32 | b | 729 | BCR | C35-C13-C12 | 2.02 | 121.26 | 118.08 |
| 29 | i | 203 | CLA | O2D-CGD-CBD | 2.02 | 114.86 | 111.27 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | b | 721 | CLA | O2A-CGA-O1A | -2.02 | 118.49 | 123.59 |
| 29 | b | 704 | CLA | CHB-C4A-NA | 2.02 | 127.31 | 124.51 |
| 36 | L | 303 | DD6 | C25-C24-C1 | -2.02 | 120.74 | 126.42 |
| 36 | L | 303 | DD6 | C3-C4-C5 | -2.02 | 119.34 | 123.47 |
| 29 | B | 307 | CLA | CHD-C1D-ND | -2.02 | 122.60 | 124.45 |
| 29 | a | 829 | CLA | O2A-CGA-O1A | -2.02 | 118.50 | 123.59 |
| 29 | h | 201 | CLA | O2A-CGA-O1A | -2.02 | 118.50 | 123.59 |
| 29 | G | 316 | CLA | CHD-C1D-ND | -2.02 | 122.60 | 124.45 |
| 36 | I | 202 | DD6 | C14-C13-C11 | -2.02 | 122.40 | 125.53 |
| 29 | O | 314 | CLA | CHB-C4A-NA | 2.02 | 127.30 | 124.51 |
| 39 | K | 215 | KC1 | CMD-C2D-C1D | -2.02 | 125.36 | 128.46 |
| 29 | M | 307 | CLA | O2A-CGA-O1A | -2.02 | 118.50 | 123.59 |
| 29 | a | 824 | CLA | O2A-CGA-O1A | -2.02 | 118.50 | 123.59 |
| 29 | K | 207 | CLA | O2A-CGA-O1A | -2.02 | 118.50 | 123.59 |
| 35 | b | 733 | DGD | O6D-C5D-C4D | -2.02 | 106.03 | 109.69 |
| 29 | b | 726 | CLA | O2A-CGA-O1A | -2.02 | 118.50 | 123.59 |
| 29 | K | 211 | CLA | CHD-C1D-ND | -2.02 | 122.60 | 124.45 |
| 29 | b | 718 | CLA | O2A-CGA-O1A | -2.02 | 118.50 | 123.59 |
| 39 | Q | 309 | KC1 | CBD-CHA-C1A | 2.02 | 132.64 | 128.88 |
| 36 | J | 301 | DD6 | C13-C11-C10 | 2.02 | 122.03 | 118.94 |
| 29 | b | 712 | CLA | CHD-C1D-ND | -2.02 | 122.60 | 124.45 |
| 29 | b | 701 | CLA | CHD-C1D-ND | -2.01 | 122.60 | 124.45 |
| 39 | E | 312 | KC1 | C1A-C2A-C3A | -2.01 | 105.52 | 107.11 |
| 39 | M | 312 | KC1 | CAA-CBA-CGA | -2.01 | 116.91 | 127.26 |
| 34 | K | 220 | LMG | O1-C7-C8 | -2.01 | 106.04 | 110.90 |
| 29 | a | 808 | CLA | C1-C2-C3 | -2.01 | 122.56 | 126.04 |
| 36 | G | 308 | DD6 | C9-C8-C6 | -2.01 | 120.77 | 126.42 |
| 36 | I | 204 | DD6 | C13-C11-C10 | 2.01 | 122.03 | 118.94 |
| 38 | B | 304 | UIX | C37-C34-C30 | -2.01 | 119.36 | 123.47 |
| 29 | F | 307 | CLA | O2D-CGD-CBD | 2.01 | 114.84 | 111.27 |
| 36 | E | 303 | DD6 | C21-C20-C15 | -2.01 | 118.89 | 122.26 |
| 29 | K | 213 | CLA | CHD-C1D-ND | -2.01 | 122.61 | 124.45 |
| 29 | B | 308 | CLA | O2D-CGD-CBD | 2.01 | 114.84 | 111.27 |
| 36 | I | 206 | DD6 | C4-C3-C2 | -2.01 | 119.36 | 123.47 |
| 38 | T | 306 | UIX | C21-C15-C20 | -2.01 | 108.67 | 110.47 |
| 29 | b | 714 | CLA | O2A-CGA-O1A | -2.01 | 118.53 | 123.59 |
| 36 | K | 204 | DD6 | C21-C20-C19 | 2.01 | 116.54 | 114.28 |
| 36 | T | 303 | DD6 | C7-C6-C5 | -2.01 | 120.11 | 122.92 |
| 29 | a | 830 | CLA | CHD-C1D-ND | -2.01 | 122.61 | 124.45 |
| 40 | J | 314 | SQD | O8-S-C6 | -2.01 | 102.54 | 105.74 |
| 36 | P | 204 | DD6 | C8-C6-C5 | 2.01 | 122.02 | 118.94 |
| 36 | m | 101 | DD6 | C14-C13-C11 | -2.01 | 122.42 | 125.53 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 29 | B | 306 | CLA | O2A-CGA-O1A | -2.01 | 118.53 | 123.59 |
| 29 | L | 309 | CLA | O2A-CGA-O1A | -2.00 | 118.53 | 123.59 |
| 32 | f | 804 | BCR | C34-C9-C10 | -2.00 | 120.12 | 122.92 |
| 39 | O | 310 | KC1 | C1A-C2A-C3A | -2.00 | 105.52 | 107.11 |
| 29 | a | 811 | CLA | O2A-CGA-O1A | -2.00 | 118.54 | 123.59 |
| 29 | l | 509 | CLA | CHD-C1D-ND | -2.00 | 122.61 | 124.45 |
| 38 | C | 306 | UIX | C3-C5-C4 | -2.00 | 106.91 | 110.77 |
| 36 | M | 301 | DD6 | C10-C9-C8 | -2.00 | 116.97 | 123.22 |
| 38 | L | 302 | UIX | C7-C10-C11 | -2.00 | 122.42 | 125.53 |
| 29 | b | 724 | CLA | O2D-CGD-CBD | 2.00 | 114.83 | 111.27 |
| 29 | B | 311 | CLA | O2A-CGA-O1A | -2.00 | 118.54 | 123.59 |
| 29 | J | 308 | CLA | O2A-CGA-O1A | -2.00 | 118.54 | 123.59 |
| 29 | a | 813 | CLA | O2A-CGA-O1A | -2.00 | 118.54 | 123.59 |
| 29 | b | 719 | CLA | O2A-CGA-O1A | -2.00 | 118.54 | 123.59 |
| 29 | a | 825 | CLA | C1-C2-C3 | -2.00 | 122.58 | 126.04 |
| 35 | j | 103 | DGD | O1G-C1A-O1A | -2.00 | 118.54 | 123.59 |
| 36 | I | 203 | DD6 | C33-C34-C35 | -2.00 | 107.57 | 110.30 |

All (220) chirality outliers are listed below:

| Mol | Chain | Res | Type | Atom |
|-----|-------|-----|------|------|
| 29 | a | 801 | CLA | ND |
| 29 | a | 802 | CLA | ND |
| 29 | a | 803 | CLA | ND |
| 29 | a | 804 | CLA | ND |
| 29 | a | 805 | CLA | ND |
| 29 | a | 806 | CLA | ND |
| 29 | a | 807 | CLA | ND |
| 29 | a | 808 | CLA | ND |
| 29 | a | 809 | CLA | ND |
| 29 | a | 810 | CLA | ND |
| 29 | a | 811 | CLA | ND |
| 29 | a | 812 | CLA | ND |
| 29 | a | 813 | CLA | ND |
| 29 | a | 814 | CLA | ND |
| 29 | a | 815 | CLA | ND |
| 29 | a | 816 | CLA | ND |
| 29 | a | 817 | CLA | ND |
| 29 | a | 818 | CLA | ND |
| 29 | a | 819 | CLA | ND |
| 29 | a | 820 | CLA | ND |
| 29 | a | 821 | CLA | ND |

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| Mol | Chain | Res | Type | Atom |
|------------|--------------|------------|-------------|-------------|
| 29 | a | 822 | CLA | ND |
| 29 | a | 823 | CLA | ND |
| 29 | a | 824 | CLA | ND |
| 29 | a | 825 | CLA | ND |
| 29 | a | 826 | CLA | ND |
| 29 | a | 827 | CLA | ND |
| 29 | a | 828 | CLA | ND |
| 29 | a | 829 | CLA | ND |
| 29 | a | 830 | CLA | ND |
| 29 | a | 831 | CLA | ND |
| 29 | a | 837 | CLA | ND |
| 29 | b | 701 | CLA | ND |
| 29 | b | 702 | CLA | ND |
| 29 | b | 703 | CLA | ND |
| 29 | b | 704 | CLA | ND |
| 29 | b | 705 | CLA | ND |
| 29 | b | 706 | CLA | ND |
| 29 | b | 707 | CLA | ND |
| 29 | b | 708 | CLA | ND |
| 29 | b | 709 | CLA | ND |
| 29 | b | 710 | CLA | ND |
| 29 | b | 711 | CLA | ND |
| 29 | b | 712 | CLA | ND |
| 29 | b | 713 | CLA | ND |
| 29 | b | 714 | CLA | ND |
| 29 | b | 715 | CLA | ND |
| 29 | b | 716 | CLA | ND |
| 29 | b | 717 | CLA | ND |
| 29 | b | 718 | CLA | ND |
| 29 | b | 719 | CLA | ND |
| 29 | b | 720 | CLA | ND |
| 29 | b | 721 | CLA | ND |
| 29 | b | 722 | CLA | ND |
| 29 | b | 723 | CLA | ND |
| 29 | b | 724 | CLA | ND |
| 29 | b | 725 | CLA | ND |
| 29 | b | 726 | CLA | ND |
| 29 | b | 731 | CLA | ND |
| 29 | b | 736 | CLA | ND |
| 29 | f | 802 | CLA | ND |
| 29 | f | 803 | CLA | ND |
| 29 | f | 805 | CLA | ND |

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| Mol | Chain | Res | Type | Atom |
|------------|--------------|------------|-------------|-------------|
| 29 | h | 201 | CLA | ND |
| 29 | i | 201 | CLA | ND |
| 29 | i | 202 | CLA | ND |
| 29 | i | 203 | CLA | ND |
| 29 | j | 104 | CLA | ND |
| 29 | l | 501 | CLA | ND |
| 29 | l | 502 | CLA | ND |
| 29 | l | 503 | CLA | ND |
| 29 | l | 504 | CLA | ND |
| 29 | l | 505 | CLA | ND |
| 29 | l | 508 | CLA | ND |
| 29 | l | 509 | CLA | ND |
| 29 | l | 510 | CLA | ND |
| 29 | A | 206 | CLA | ND |
| 29 | A | 207 | CLA | ND |
| 29 | A | 208 | CLA | ND |
| 29 | A | 209 | CLA | ND |
| 29 | A | 210 | CLA | ND |
| 29 | A | 211 | CLA | ND |
| 29 | A | 212 | CLA | ND |
| 29 | A | 214 | CLA | ND |
| 29 | A | 215 | CLA | ND |
| 29 | A | 216 | CLA | ND |
| 29 | A | 217 | CLA | ND |
| 29 | A | 218 | CLA | ND |
| 29 | G | 301 | CLA | ND |
| 29 | G | 302 | CLA | ND |
| 29 | G | 304 | CLA | ND |
| 29 | G | 311 | CLA | ND |
| 29 | G | 312 | CLA | ND |
| 29 | G | 313 | CLA | ND |
| 29 | G | 314 | CLA | ND |
| 29 | G | 316 | CLA | ND |
| 29 | G | 317 | CLA | ND |
| 29 | G | 319 | CLA | ND |
| 29 | I | 201 | CLA | ND |
| 29 | I | 207 | CLA | ND |
| 29 | I | 208 | CLA | ND |
| 29 | I | 209 | CLA | ND |
| 29 | I | 210 | CLA | ND |
| 29 | I | 211 | CLA | ND |
| 29 | I | 212 | CLA | ND |

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| Mol | Chain | Res | Type | Atom |
|------------|--------------|------------|-------------|-------------|
| 29 | I | 213 | CLA | ND |
| 29 | I | 214 | CLA | ND |
| 29 | I | 216 | CLA | ND |
| 29 | I | 217 | CLA | ND |
| 29 | K | 207 | CLA | ND |
| 29 | K | 208 | CLA | ND |
| 29 | K | 209 | CLA | ND |
| 29 | K | 210 | CLA | ND |
| 29 | K | 211 | CLA | ND |
| 29 | K | 212 | CLA | ND |
| 29 | K | 213 | CLA | ND |
| 29 | K | 214 | CLA | ND |
| 29 | K | 216 | CLA | ND |
| 29 | K | 217 | CLA | ND |
| 29 | K | 218 | CLA | ND |
| 29 | F | 307 | CLA | ND |
| 29 | F | 308 | CLA | ND |
| 29 | F | 310 | CLA | ND |
| 29 | F | 311 | CLA | ND |
| 29 | F | 312 | CLA | ND |
| 29 | F | 313 | CLA | ND |
| 29 | F | 315 | CLA | ND |
| 29 | F | 316 | CLA | ND |
| 29 | J | 305 | CLA | ND |
| 29 | J | 306 | CLA | ND |
| 29 | J | 307 | CLA | ND |
| 29 | J | 308 | CLA | ND |
| 29 | J | 309 | CLA | ND |
| 29 | J | 310 | CLA | ND |
| 29 | J | 311 | CLA | ND |
| 29 | J | 313 | CLA | ND |
| 29 | M | 306 | CLA | ND |
| 29 | M | 307 | CLA | ND |
| 29 | M | 308 | CLA | ND |
| 29 | M | 309 | CLA | ND |
| 29 | M | 310 | CLA | ND |
| 29 | M | 311 | CLA | ND |
| 29 | M | 313 | CLA | ND |
| 29 | M | 314 | CLA | ND |
| 29 | M | 315 | CLA | ND |
| 29 | L | 307 | CLA | ND |
| 29 | L | 308 | CLA | ND |

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| Mol | Chain | Res | Type | Atom |
|------------|--------------|------------|-------------|-------------|
| 29 | L | 309 | CLA | ND |
| 29 | L | 310 | CLA | ND |
| 29 | L | 311 | CLA | ND |
| 29 | L | 312 | CLA | ND |
| 29 | L | 313 | CLA | ND |
| 29 | L | 315 | CLA | ND |
| 29 | L | 316 | CLA | ND |
| 29 | L | 317 | CLA | ND |
| 29 | D | 308 | CLA | ND |
| 29 | D | 309 | CLA | ND |
| 29 | D | 311 | CLA | ND |
| 29 | D | 312 | CLA | ND |
| 29 | D | 313 | CLA | ND |
| 29 | D | 314 | CLA | ND |
| 29 | D | 316 | CLA | ND |
| 29 | B | 306 | CLA | ND |
| 29 | B | 307 | CLA | ND |
| 29 | B | 308 | CLA | ND |
| 29 | B | 309 | CLA | ND |
| 29 | B | 310 | CLA | ND |
| 29 | B | 311 | CLA | ND |
| 29 | B | 312 | CLA | ND |
| 29 | B | 314 | CLA | ND |
| 29 | B | 315 | CLA | ND |
| 29 | B | 316 | CLA | ND |
| 29 | H | 307 | CLA | ND |
| 29 | H | 308 | CLA | ND |
| 29 | H | 310 | CLA | ND |
| 29 | H | 312 | CLA | ND |
| 29 | H | 313 | CLA | ND |
| 29 | H | 315 | CLA | ND |
| 29 | N | 308 | CLA | ND |
| 29 | N | 309 | CLA | ND |
| 29 | N | 311 | CLA | ND |
| 29 | N | 313 | CLA | ND |
| 29 | N | 314 | CLA | ND |
| 29 | N | 316 | CLA | ND |
| 29 | O | 308 | CLA | ND |
| 29 | O | 311 | CLA | ND |
| 29 | O | 313 | CLA | ND |
| 29 | O | 316 | CLA | ND |
| 29 | T | 308 | CLA | ND |

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| Mol | Chain | Res | Type | Atom |
|-----|-------|-----|------|------|
| 29 | T | 309 | CLA | ND |
| 29 | T | 311 | CLA | ND |
| 29 | T | 313 | CLA | ND |
| 29 | T | 314 | CLA | ND |
| 29 | T | 316 | CLA | ND |
| 29 | Q | 307 | CLA | ND |
| 29 | Q | 308 | CLA | ND |
| 29 | Q | 310 | CLA | ND |
| 29 | Q | 312 | CLA | ND |
| 29 | Q | 313 | CLA | ND |
| 29 | Q | 315 | CLA | ND |
| 29 | C | 308 | CLA | ND |
| 29 | C | 309 | CLA | ND |
| 29 | C | 311 | CLA | ND |
| 29 | C | 313 | CLA | ND |
| 29 | C | 314 | CLA | ND |
| 29 | C | 316 | CLA | ND |
| 29 | P | 209 | CLA | ND |
| 29 | P | 210 | CLA | ND |
| 29 | P | 212 | CLA | ND |
| 29 | P | 214 | CLA | ND |
| 29 | P | 215 | CLA | ND |
| 29 | P | 217 | CLA | ND |
| 29 | E | 305 | CLA | ND |
| 29 | E | 306 | CLA | ND |
| 29 | E | 308 | CLA | ND |
| 29 | E | 309 | CLA | ND |
| 29 | E | 310 | CLA | ND |
| 29 | E | 311 | CLA | ND |
| 29 | E | 313 | CLA | ND |
| 29 | E | 315 | CLA | ND |

All (2704) torsion outliers are listed below:

| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | a | 801 | CLA | CHA-CBD-CGD-O1D |
| 29 | a | 801 | CLA | CHA-CBD-CGD-O2D |
| 29 | a | 801 | CLA | CBD-CGD-O2D-CED |
| 29 | a | 805 | CLA | C1A-C2A-CAA-CBA |
| 29 | a | 805 | CLA | C3A-C2A-CAA-CBA |
| 29 | a | 805 | CLA | CBD-CGD-O2D-CED |
| 29 | a | 807 | CLA | C1A-C2A-CAA-CBA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | a | 809 | CLA | C1A-C2A-CAA-CBA |
| 29 | a | 809 | CLA | C3A-C2A-CAA-CBA |
| 29 | a | 811 | CLA | C1A-C2A-CAA-CBA |
| 29 | a | 812 | CLA | C1A-C2A-CAA-CBA |
| 29 | a | 813 | CLA | C1A-C2A-CAA-CBA |
| 29 | a | 813 | CLA | C3A-C2A-CAA-CBA |
| 29 | a | 814 | CLA | CBA-CGA-O2A-C1 |
| 29 | a | 815 | CLA | C1A-C2A-CAA-CBA |
| 29 | a | 815 | CLA | C3A-C2A-CAA-CBA |
| 29 | a | 816 | CLA | CHA-CBD-CGD-O1D |
| 29 | a | 816 | CLA | CHA-CBD-CGD-O2D |
| 29 | a | 818 | CLA | C3A-C2A-CAA-CBA |
| 29 | a | 819 | CLA | C1A-C2A-CAA-CBA |
| 29 | a | 819 | CLA | C3A-C2A-CAA-CBA |
| 29 | a | 821 | CLA | C3A-C2A-CAA-CBA |
| 29 | a | 821 | CLA | CBD-CGD-O2D-CED |
| 29 | a | 823 | CLA | CBD-CGD-O2D-CED |
| 29 | a | 825 | CLA | CHA-CBD-CGD-O1D |
| 29 | a | 825 | CLA | CHA-CBD-CGD-O2D |
| 29 | a | 825 | CLA | C2-C3-C5-C6 |
| 29 | a | 825 | CLA | C4-C3-C5-C6 |
| 29 | a | 826 | CLA | C1A-C2A-CAA-CBA |
| 29 | a | 826 | CLA | C3A-C2A-CAA-CBA |
| 29 | a | 828 | CLA | CBD-CGD-O2D-CED |
| 29 | a | 837 | CLA | C1A-C2A-CAA-CBA |
| 29 | a | 837 | CLA | C3A-C2A-CAA-CBA |
| 29 | b | 704 | CLA | C2-C3-C5-C6 |
| 29 | b | 704 | CLA | C4-C3-C5-C6 |
| 29 | b | 705 | CLA | C1A-C2A-CAA-CBA |
| 29 | b | 705 | CLA | C3A-C2A-CAA-CBA |
| 29 | b | 705 | CLA | CBD-CGD-O2D-CED |
| 29 | b | 706 | CLA | C1A-C2A-CAA-CBA |
| 29 | b | 706 | CLA | C2-C3-C5-C6 |
| 29 | b | 706 | CLA | C4-C3-C5-C6 |
| 29 | b | 707 | CLA | CBD-CGD-O2D-CED |
| 29 | b | 710 | CLA | C1A-C2A-CAA-CBA |
| 29 | b | 710 | CLA | C3A-C2A-CAA-CBA |
| 29 | b | 712 | CLA | C3A-C2A-CAA-CBA |
| 29 | b | 713 | CLA | C3A-C2A-CAA-CBA |
| 29 | b | 714 | CLA | CHA-CBD-CGD-O1D |
| 29 | b | 714 | CLA | CHA-CBD-CGD-O2D |
| 29 | b | 715 | CLA | C1A-C2A-CAA-CBA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | b | 715 | CLA | C3A-C2A-CAA-CBA |
| 29 | b | 715 | CLA | C2A-CAA-CBA-CGA |
| 29 | b | 715 | CLA | CBA-CGA-O2A-C1 |
| 29 | b | 717 | CLA | C1A-C2A-CAA-CBA |
| 29 | b | 717 | CLA | C4-C3-C5-C6 |
| 29 | b | 718 | CLA | C2-C3-C5-C6 |
| 29 | b | 718 | CLA | C4-C3-C5-C6 |
| 29 | b | 719 | CLA | C1A-C2A-CAA-CBA |
| 29 | b | 719 | CLA | C3A-C2A-CAA-CBA |
| 29 | b | 720 | CLA | CBD-CGD-O2D-CED |
| 29 | b | 721 | CLA | C6-C7-C8-C9 |
| 29 | b | 722 | CLA | CBD-CGD-O2D-CED |
| 29 | b | 722 | CLA | C2-C3-C5-C6 |
| 29 | b | 722 | CLA | C4-C3-C5-C6 |
| 29 | b | 725 | CLA | CHA-CBD-CGD-O1D |
| 29 | b | 725 | CLA | CHA-CBD-CGD-O2D |
| 29 | b | 726 | CLA | C11-C12-C13-C14 |
| 29 | b | 731 | CLA | CBD-CGD-O2D-CED |
| 29 | b | 736 | CLA | CBD-CGD-O2D-CED |
| 29 | f | 803 | CLA | CHA-CBD-CGD-O1D |
| 29 | f | 803 | CLA | CHA-CBD-CGD-O2D |
| 29 | f | 805 | CLA | C1A-C2A-CAA-CBA |
| 29 | h | 201 | CLA | C1A-C2A-CAA-CBA |
| 29 | h | 201 | CLA | C3A-C2A-CAA-CBA |
| 29 | h | 201 | CLA | C2-C3-C5-C6 |
| 29 | h | 201 | CLA | C4-C3-C5-C6 |
| 29 | i | 202 | CLA | C6-C7-C8-C9 |
| 29 | i | 203 | CLA | CHA-CBD-CGD-O1D |
| 29 | i | 203 | CLA | CHA-CBD-CGD-O2D |
| 29 | l | 501 | CLA | C1A-C2A-CAA-CBA |
| 29 | l | 501 | CLA | C3A-C2A-CAA-CBA |
| 29 | l | 502 | CLA | CHA-CBD-CGD-O1D |
| 29 | l | 502 | CLA | CHA-CBD-CGD-O2D |
| 29 | l | 504 | CLA | CBD-CGD-O2D-CED |
| 29 | l | 510 | CLA | C1A-C2A-CAA-CBA |
| 29 | A | 209 | CLA | CHA-CBD-CGD-O1D |
| 29 | A | 209 | CLA | CHA-CBD-CGD-O2D |
| 29 | A | 210 | CLA | CHA-CBD-CGD-O1D |
| 29 | A | 210 | CLA | CHA-CBD-CGD-O2D |
| 29 | A | 210 | CLA | CBD-CGD-O2D-CED |
| 29 | A | 212 | CLA | C2-C3-C5-C6 |
| 29 | A | 212 | CLA | C4-C3-C5-C6 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | A | 214 | CLA | CHA-CBD-CGD-O1D |
| 29 | A | 214 | CLA | CHA-CBD-CGD-O2D |
| 29 | A | 217 | CLA | CHA-CBD-CGD-O1D |
| 29 | A | 217 | CLA | CBD-CGD-O2D-CED |
| 29 | G | 302 | CLA | C1A-C2A-CAA-CBA |
| 29 | G | 302 | CLA | C4-C3-C5-C6 |
| 29 | G | 304 | CLA | C1A-C2A-CAA-CBA |
| 29 | G | 304 | CLA | C3A-C2A-CAA-CBA |
| 29 | G | 304 | CLA | CBD-CGD-O2D-CED |
| 29 | G | 304 | CLA | O1D-CGD-O2D-CED |
| 29 | G | 314 | CLA | CBD-CGD-O2D-CED |
| 29 | G | 316 | CLA | CBD-CGD-O2D-CED |
| 29 | I | 208 | CLA | C1A-C2A-CAA-CBA |
| 29 | I | 208 | CLA | C3A-C2A-CAA-CBA |
| 29 | I | 208 | CLA | CBA-CGA-O2A-C1 |
| 29 | I | 208 | CLA | O1A-CGA-O2A-C1 |
| 29 | I | 212 | CLA | C1A-C2A-CAA-CBA |
| 29 | I | 212 | CLA | O2A-C1-C2-C3 |
| 29 | I | 216 | CLA | CAD-CBD-CGD-O1D |
| 29 | I | 216 | CLA | CAD-CBD-CGD-O2D |
| 29 | I | 217 | CLA | CHA-CBD-CGD-O1D |
| 29 | I | 217 | CLA | CHA-CBD-CGD-O2D |
| 29 | I | 217 | CLA | CBD-CGD-O2D-CED |
| 29 | K | 207 | CLA | C1A-C2A-CAA-CBA |
| 29 | K | 207 | CLA | C3A-C2A-CAA-CBA |
| 29 | K | 207 | CLA | CHA-CBD-CGD-O1D |
| 29 | K | 207 | CLA | CHA-CBD-CGD-O2D |
| 29 | K | 209 | CLA | O1A-CGA-O2A-C1 |
| 29 | K | 209 | CLA | CHA-CBD-CGD-O1D |
| 29 | K | 209 | CLA | CHA-CBD-CGD-O2D |
| 29 | K | 209 | CLA | C2-C3-C5-C6 |
| 29 | K | 209 | CLA | C4-C3-C5-C6 |
| 29 | K | 213 | CLA | CBD-CGD-O2D-CED |
| 29 | K | 216 | CLA | CBD-CGD-O2D-CED |
| 29 | K | 217 | CLA | CBA-CGA-O2A-C1 |
| 29 | K | 218 | CLA | C1A-C2A-CAA-CBA |
| 29 | K | 218 | CLA | C3A-C2A-CAA-CBA |
| 29 | K | 218 | CLA | CBD-CGD-O2D-CED |
| 29 | F | 310 | CLA | C1A-C2A-CAA-CBA |
| 29 | F | 310 | CLA | CHA-CBD-CGD-O1D |
| 29 | F | 310 | CLA | CHA-CBD-CGD-O2D |
| 29 | F | 313 | CLA | C1A-C2A-CAA-CBA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | F | 313 | CLA | C3A-C2A-CAA-CBA |
| 29 | F | 313 | CLA | CBA-CGA-O2A-C1 |
| 29 | F | 313 | CLA | CBD-CGD-O2D-CED |
| 29 | F | 313 | CLA | O1D-CGD-O2D-CED |
| 29 | F | 316 | CLA | CHA-CBD-CGD-O1D |
| 29 | F | 316 | CLA | CHA-CBD-CGD-O2D |
| 29 | J | 305 | CLA | CBD-CGD-O2D-CED |
| 29 | J | 306 | CLA | C1A-C2A-CAA-CBA |
| 29 | J | 306 | CLA | C3A-C2A-CAA-CBA |
| 29 | J | 306 | CLA | CBD-CGD-O2D-CED |
| 29 | J | 306 | CLA | C2-C3-C5-C6 |
| 29 | J | 306 | CLA | C4-C3-C5-C6 |
| 29 | J | 309 | CLA | CBA-CGA-O2A-C1 |
| 29 | J | 310 | CLA | C1A-C2A-CAA-CBA |
| 29 | J | 311 | CLA | CHA-CBD-CGD-O1D |
| 29 | J | 311 | CLA | CHA-CBD-CGD-O2D |
| 29 | J | 311 | CLA | C4-C3-C5-C6 |
| 29 | J | 313 | CLA | CBD-CGD-O2D-CED |
| 29 | M | 309 | CLA | CBA-CGA-O2A-C1 |
| 29 | M | 311 | CLA | CHA-CBD-CGD-O1D |
| 29 | M | 311 | CLA | CHA-CBD-CGD-O2D |
| 29 | M | 315 | CLA | C1A-C2A-CAA-CBA |
| 29 | M | 315 | CLA | C3A-C2A-CAA-CBA |
| 29 | M | 315 | CLA | CBD-CGD-O2D-CED |
| 29 | M | 315 | CLA | O1D-CGD-O2D-CED |
| 29 | L | 307 | CLA | C1A-C2A-CAA-CBA |
| 29 | L | 307 | CLA | C3A-C2A-CAA-CBA |
| 29 | L | 307 | CLA | CBD-CGD-O2D-CED |
| 29 | L | 311 | CLA | C1A-C2A-CAA-CBA |
| 29 | L | 311 | CLA | C3A-C2A-CAA-CBA |
| 29 | L | 312 | CLA | C1A-C2A-CAA-CBA |
| 29 | L | 312 | CLA | C3A-C2A-CAA-CBA |
| 29 | L | 313 | CLA | CHA-CBD-CGD-O1D |
| 29 | L | 313 | CLA | CHA-CBD-CGD-O2D |
| 29 | L | 315 | CLA | CHA-CBD-CGD-O1D |
| 29 | L | 315 | CLA | CHA-CBD-CGD-O2D |
| 29 | L | 315 | CLA | CBD-CGD-O2D-CED |
| 29 | L | 317 | CLA | CBA-CGA-O2A-C1 |
| 29 | D | 308 | CLA | CBD-CGD-O2D-CED |
| 29 | D | 309 | CLA | CBD-CGD-O2D-CED |
| 29 | D | 311 | CLA | CBD-CGD-O2D-CED |
| 29 | D | 312 | CLA | CBA-CGA-O2A-C1 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | D | 312 | CLA | O1A-CGA-O2A-C1 |
| 29 | D | 313 | CLA | CBD-CGD-O2D-CED |
| 29 | D | 314 | CLA | CBD-CGD-O2D-CED |
| 29 | D | 316 | CLA | CHA-CBD-CGD-O1D |
| 29 | D | 316 | CLA | CHA-CBD-CGD-O2D |
| 29 | B | 306 | CLA | CHA-CBD-CGD-O1D |
| 29 | B | 306 | CLA | CHA-CBD-CGD-O2D |
| 29 | B | 307 | CLA | CBD-CGD-O2D-CED |
| 29 | B | 310 | CLA | C1A-C2A-CAA-CBA |
| 29 | B | 310 | CLA | C3A-C2A-CAA-CBA |
| 29 | B | 314 | CLA | CAD-CBD-CGD-O1D |
| 29 | B | 314 | CLA | CAD-CBD-CGD-O2D |
| 29 | H | 307 | CLA | CHA-CBD-CGD-O1D |
| 29 | H | 307 | CLA | CHA-CBD-CGD-O2D |
| 29 | H | 310 | CLA | CBD-CGD-O2D-CED |
| 29 | H | 310 | CLA | C2-C3-C5-C6 |
| 29 | H | 310 | CLA | C4-C3-C5-C6 |
| 29 | H | 312 | CLA | C1A-C2A-CAA-CBA |
| 29 | H | 312 | CLA | C3A-C2A-CAA-CBA |
| 29 | H | 312 | CLA | CBD-CGD-O2D-CED |
| 29 | H | 313 | CLA | CBD-CGD-O2D-CED |
| 29 | H | 315 | CLA | CBD-CGD-O2D-CED |
| 29 | N | 308 | CLA | CHA-CBD-CGD-O1D |
| 29 | N | 308 | CLA | CHA-CBD-CGD-O2D |
| 29 | N | 313 | CLA | C1A-C2A-CAA-CBA |
| 29 | N | 313 | CLA | C3A-C2A-CAA-CBA |
| 29 | N | 314 | CLA | CBD-CGD-O2D-CED |
| 29 | O | 308 | CLA | CHA-CBD-CGD-O1D |
| 29 | O | 313 | CLA | CBD-CGD-O2D-CED |
| 29 | O | 314 | CLA | CBD-CGD-O2D-CED |
| 29 | O | 314 | CLA | O1D-CGD-O2D-CED |
| 29 | O | 316 | CLA | CAD-CBD-CGD-O1D |
| 29 | O | 316 | CLA | CAD-CBD-CGD-O2D |
| 29 | T | 308 | CLA | CBD-CGD-O2D-CED |
| 29 | T | 311 | CLA | CHA-CBD-CGD-O1D |
| 29 | T | 311 | CLA | CHA-CBD-CGD-O2D |
| 29 | T | 311 | CLA | CAD-CBD-CGD-O1D |
| 29 | T | 311 | CLA | CAD-CBD-CGD-O2D |
| 29 | T | 311 | CLA | CBD-CGD-O2D-CED |
| 29 | T | 313 | CLA | CHA-CBD-CGD-O1D |
| 29 | T | 313 | CLA | CBD-CGD-O2D-CED |
| 29 | T | 314 | CLA | CBD-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | T | 314 | CLA | O1D-CGD-O2D-CED |
| 29 | T | 316 | CLA | CAD-CBD-CGD-O1D |
| 29 | T | 316 | CLA | CAD-CBD-CGD-O2D |
| 29 | Q | 308 | CLA | C1A-C2A-CAA-CBA |
| 29 | Q | 308 | CLA | C3A-C2A-CAA-CBA |
| 29 | Q | 308 | CLA | C4-C3-C5-C6 |
| 29 | Q | 310 | CLA | C2-C3-C5-C6 |
| 29 | Q | 310 | CLA | C4-C3-C5-C6 |
| 29 | Q | 312 | CLA | CBA-CGA-O2A-C1 |
| 29 | Q | 313 | CLA | C1A-C2A-CAA-CBA |
| 29 | Q | 315 | CLA | CAD-CBD-CGD-O1D |
| 29 | Q | 315 | CLA | CAD-CBD-CGD-O2D |
| 29 | C | 309 | CLA | CHA-CBD-CGD-O1D |
| 29 | C | 311 | CLA | CAD-CBD-CGD-O1D |
| 29 | C | 311 | CLA | CAD-CBD-CGD-O2D |
| 29 | C | 311 | CLA | CBD-CGD-O2D-CED |
| 29 | C | 313 | CLA | CBA-CGA-O2A-C1 |
| 29 | C | 313 | CLA | CBD-CGD-O2D-CED |
| 29 | C | 314 | CLA | CBD-CGD-O2D-CED |
| 29 | C | 316 | CLA | CHA-CBD-CGD-O1D |
| 29 | C | 316 | CLA | CHA-CBD-CGD-O2D |
| 29 | C | 316 | CLA | CAD-CBD-CGD-O1D |
| 29 | C | 316 | CLA | CAD-CBD-CGD-O2D |
| 29 | P | 209 | CLA | O1A-CGA-O2A-C1 |
| 29 | P | 209 | CLA | CHA-CBD-CGD-O1D |
| 29 | P | 209 | CLA | CHA-CBD-CGD-O2D |
| 29 | P | 214 | CLA | C1A-C2A-CAA-CBA |
| 29 | P | 214 | CLA | C3A-C2A-CAA-CBA |
| 29 | P | 214 | CLA | CBD-CGD-O2D-CED |
| 29 | P | 215 | CLA | CBD-CGD-O2D-CED |
| 29 | E | 305 | CLA | CBD-CGD-O2D-CED |
| 29 | E | 305 | CLA | C2-C3-C5-C6 |
| 29 | E | 305 | CLA | C4-C3-C5-C6 |
| 29 | E | 308 | CLA | CHA-CBD-CGD-O1D |
| 29 | E | 308 | CLA | CHA-CBD-CGD-O2D |
| 29 | E | 308 | CLA | CAD-CBD-CGD-O1D |
| 29 | E | 309 | CLA | C1A-C2A-CAA-CBA |
| 29 | E | 309 | CLA | CHA-CBD-CGD-O1D |
| 29 | E | 309 | CLA | CHA-CBD-CGD-O2D |
| 29 | E | 310 | CLA | CBD-CGD-O2D-CED |
| 29 | E | 313 | CLA | CHA-CBD-CGD-O1D |
| 29 | E | 313 | CLA | CHA-CBD-CGD-O2D |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | E | 314 | CLA | CHA-CBD-CGD-O1D |
| 29 | E | 314 | CLA | CHA-CBD-CGD-O2D |
| 29 | E | 315 | CLA | C1A-C2A-CAA-CBA |
| 29 | E | 315 | CLA | C3A-C2A-CAA-CBA |
| 32 | a | 838 | BCR | C7-C8-C9-C10 |
| 32 | a | 838 | BCR | C7-C8-C9-C34 |
| 32 | b | 729 | BCR | C1-C6-C7-C8 |
| 32 | i | 204 | BCR | C21-C22-C23-C24 |
| 32 | i | 204 | BCR | C37-C22-C23-C24 |
| 32 | l | 506 | BCR | C1-C6-C7-C8 |
| 32 | l | 507 | BCR | C7-C8-C9-C10 |
| 32 | l | 507 | BCR | C7-C8-C9-C34 |
| 32 | m | 103 | BCR | C7-C8-C9-C10 |
| 32 | m | 103 | BCR | C7-C8-C9-C34 |
| 32 | m | 103 | BCR | C21-C22-C23-C24 |
| 32 | m | 103 | BCR | C37-C22-C23-C24 |
| 34 | b | 734 | LMG | O7-C8-C9-O8 |
| 34 | h | 205 | LMG | O9-C10-O7-C8 |
| 34 | A | 219 | LMG | C2-C1-O1-C7 |
| 34 | A | 219 | LMG | O6-C1-O1-C7 |
| 34 | A | 219 | LMG | O9-C10-O7-C8 |
| 34 | A | 219 | LMG | C11-C10-O7-C8 |
| 34 | K | 219 | LMG | C2-C1-O1-C7 |
| 34 | K | 219 | LMG | O6-C1-O1-C7 |
| 34 | K | 219 | LMG | C11-C10-O7-C8 |
| 34 | E | 316 | LMG | C8-C7-O1-C1 |
| 35 | b | 733 | DGD | C2B-C1B-O2G-C2G |
| 35 | b | 733 | DGD | O6D-C1D-O3G-C3G |
| 35 | j | 103 | DGD | C2B-C1B-O2G-C2G |
| 35 | j | 103 | DGD | O6E-C1E-O5D-C6D |
| 36 | A | 201 | DD6 | C5-C6-C8-C9 |
| 36 | A | 201 | DD6 | C7-C6-C8-C9 |
| 36 | A | 202 | DD6 | C27-C29-C30-C31 |
| 36 | G | 305 | DD6 | C10-C11-C13-C14 |
| 36 | G | 305 | DD6 | C12-C11-C13-C14 |
| 36 | G | 305 | DD6 | C5-C6-C8-C9 |
| 36 | G | 305 | DD6 | C7-C6-C8-C9 |
| 36 | I | 202 | DD6 | C-C1-C24-C25 |
| 36 | I | 202 | DD6 | C13-C14-C15-O1 |
| 36 | I | 203 | DD6 | C5-C6-C8-C9 |
| 36 | I | 203 | DD6 | C7-C6-C8-C9 |
| 36 | I | 205 | DD6 | C5-C6-C8-C9 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 36 | I | 205 | DD6 | C7-C6-C8-C9 |
| 36 | I | 206 | DD6 | C13-C14-C15-O1 |
| 36 | K | 202 | DD6 | C1-C2-C3-C4 |
| 36 | K | 202 | DD6 | C5-C6-C8-C9 |
| 36 | K | 202 | DD6 | C7-C6-C8-C9 |
| 36 | K | 203 | DD6 | C13-C14-C15-O1 |
| 36 | K | 204 | DD6 | C10-C11-C13-C14 |
| 36 | K | 204 | DD6 | C12-C11-C13-C14 |
| 36 | K | 204 | DD6 | C13-C14-C15-C20 |
| 36 | K | 221 | DD6 | C11-C10-C9-C8 |
| 36 | K | 221 | DD6 | C5-C6-C8-C9 |
| 36 | K | 221 | DD6 | C7-C6-C8-C9 |
| 36 | F | 301 | DD6 | C1-C2-C3-C4 |
| 36 | F | 301 | DD6 | C24-C25-C26-C27 |
| 36 | F | 301 | DD6 | C5-C6-C8-C9 |
| 36 | J | 301 | DD6 | C10-C11-C13-C14 |
| 36 | J | 301 | DD6 | C12-C11-C13-C14 |
| 36 | M | 301 | DD6 | C10-C11-C13-C14 |
| 36 | M | 301 | DD6 | C12-C11-C13-C14 |
| 36 | M | 303 | DD6 | C7-C6-C8-C9 |
| 36 | M | 304 | DD6 | C10-C11-C13-C14 |
| 36 | M | 304 | DD6 | C12-C11-C13-C14 |
| 36 | L | 301 | DD6 | C13-C14-C15-O1 |
| 36 | L | 305 | DD6 | C5-C6-C8-C9 |
| 36 | L | 305 | DD6 | C7-C6-C8-C9 |
| 36 | D | 301 | DD6 | C10-C11-C13-C14 |
| 36 | D | 301 | DD6 | C12-C11-C13-C14 |
| 36 | D | 301 | DD6 | C5-C6-C8-C9 |
| 36 | D | 301 | DD6 | C7-C6-C8-C9 |
| 36 | D | 304 | DD6 | C10-C11-C13-C14 |
| 36 | D | 304 | DD6 | C12-C11-C13-C14 |
| 36 | B | 319 | DD6 | C5-C6-C8-C9 |
| 36 | B | 319 | DD6 | C7-C6-C8-C9 |
| 36 | O | 303 | DD6 | C1-C2-C3-C4 |
| 36 | T | 303 | DD6 | C13-C14-C15-O1 |
| 37 | j | 101 | PID | C31-C30-O6-C27 |
| 37 | G | 303 | PID | C13-C14-C15-C16 |
| 37 | G | 303 | PID | CM4-C14-C15-C16 |
| 37 | G | 309 | PID | O7-C30-O6-C27 |
| 37 | F | 302 | PID | O7-C30-O6-C27 |
| 37 | F | 304 | PID | C1-C6-C7-C8 |
| 37 | F | 304 | PID | C5-C6-C7-C8 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 37 | F | 304 | PID | C6-C7-C8-C9 |
| 37 | F | 304 | PID | C7-C8-C9-C10 |
| 37 | F | 304 | PID | C7-C8-C9-C11 |
| 37 | F | 304 | PID | O4-C12-C13-C14 |
| 37 | F | 304 | PID | C18-C19-C20-C21 |
| 37 | F | 304 | PID | C19-C20-C21-C22 |
| 37 | F | 304 | PID | C19-C20-C21-CM5 |
| 37 | F | 304 | PID | C20-C21-C22-C23 |
| 37 | F | 304 | PID | C31-C30-O6-C27 |
| 37 | D | 303 | PID | C26-C27-O6-C30 |
| 37 | D | 305 | PID | C19-C20-C21-C22 |
| 37 | D | 305 | PID | C19-C20-C21-CM5 |
| 37 | D | 305 | PID | C20-C21-C22-C23 |
| 37 | D | 305 | PID | CM5-C21-C22-C23 |
| 37 | D | 307 | PID | O1-C6-C7-C8 |
| 37 | H | 301 | PID | O7-C30-O6-C27 |
| 37 | H | 305 | PID | O7-C30-O6-C27 |
| 37 | H | 306 | PID | C1-C6-C7-C8 |
| 37 | H | 306 | PID | C5-C6-C7-C8 |
| 37 | N | 301 | PID | O1-C6-C7-C8 |
| 37 | N | 301 | PID | O7-C30-O6-C27 |
| 37 | N | 304 | PID | O4-C12-C13-C14 |
| 37 | N | 305 | PID | C1-C6-C7-C8 |
| 37 | N | 305 | PID | O1-C6-C7-C8 |
| 37 | N | 305 | PID | C6-C7-C8-C9 |
| 37 | N | 305 | PID | C7-C8-C9-C10 |
| 37 | N | 305 | PID | C7-C8-C9-C11 |
| 37 | N | 305 | PID | O4-C12-C13-C14 |
| 37 | N | 305 | PID | C13-C14-C15-C16 |
| 37 | N | 305 | PID | CM4-C14-C15-C16 |
| 37 | N | 305 | PID | C15-C16-C17-C18 |
| 37 | N | 305 | PID | C17-C18-C19-C20 |
| 37 | N | 305 | PID | C19-C20-C21-C22 |
| 37 | N | 305 | PID | C19-C20-C21-CM5 |
| 37 | N | 305 | PID | C26-C27-O6-C30 |
| 37 | N | 305 | PID | C31-C30-O6-C27 |
| 37 | N | 305 | PID | O7-C30-O6-C27 |
| 37 | N | 307 | PID | C1-C6-C7-C8 |
| 37 | N | 307 | PID | C5-C6-C7-C8 |
| 37 | N | 307 | PID | O1-C6-C7-C8 |
| 37 | N | 307 | PID | C6-C7-C8-C9 |
| 37 | O | 301 | PID | O1-C6-C7-C8 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 37 | O | 301 | PID | O7-C30-O6-C27 |
| 37 | O | 302 | PID | O7-C30-O6-C27 |
| 37 | O | 304 | PID | O4-C12-C13-C14 |
| 37 | O | 305 | PID | C6-C7-C8-C9 |
| 37 | O | 305 | PID | C19-C20-C21-C22 |
| 37 | O | 305 | PID | C19-C20-C21-CM5 |
| 37 | O | 305 | PID | O7-C30-O6-C27 |
| 37 | O | 307 | PID | C1-C6-C7-C8 |
| 37 | O | 307 | PID | C5-C6-C7-C8 |
| 37 | T | 301 | PID | O1-C6-C7-C8 |
| 37 | T | 301 | PID | O4-C12-C13-C14 |
| 37 | T | 302 | PID | C26-C27-O6-C30 |
| 37 | T | 304 | PID | O1-C6-C7-C8 |
| 37 | T | 307 | PID | C7-C8-C9-C10 |
| 37 | T | 307 | PID | C7-C8-C9-C11 |
| 37 | T | 307 | PID | O7-C30-O6-C27 |
| 37 | T | 317 | PID | C1-C6-C7-C8 |
| 37 | T | 317 | PID | C7-C8-C9-C10 |
| 37 | T | 317 | PID | C7-C8-C9-C11 |
| 37 | T | 317 | PID | O4-C12-C13-C14 |
| 37 | T | 317 | PID | C31-C30-O6-C27 |
| 37 | Q | 304 | PID | O7-C30-O6-C27 |
| 37 | Q | 306 | PID | O1-C6-C7-C8 |
| 37 | C | 301 | PID | O7-C30-O6-C27 |
| 37 | C | 302 | PID | O7-C30-O6-C27 |
| 37 | C | 304 | PID | O4-C12-C13-C14 |
| 37 | C | 304 | PID | C19-C20-C21-C22 |
| 37 | C | 304 | PID | C19-C20-C21-CM5 |
| 37 | C | 305 | PID | C1-C6-C7-C8 |
| 37 | C | 305 | PID | C5-C6-C7-C8 |
| 37 | C | 305 | PID | O1-C6-C7-C8 |
| 37 | C | 305 | PID | C6-C7-C8-C9 |
| 37 | C | 305 | PID | O7-C30-O6-C27 |
| 37 | C | 307 | PID | O7-C30-O6-C27 |
| 37 | P | 202 | PID | O1-C6-C7-C8 |
| 37 | P | 202 | PID | O7-C30-O6-C27 |
| 37 | P | 203 | PID | O7-C30-O6-C27 |
| 37 | P | 206 | PID | C19-C20-C21-C22 |
| 37 | P | 206 | PID | C19-C20-C21-CM5 |
| 37 | P | 206 | PID | O7-C30-O6-C27 |
| 37 | P | 208 | PID | O1-C6-C7-C8 |
| 37 | P | 208 | PID | O7-C30-O6-C27 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 37 | E | 301 | PID | O1-C6-C7-C8 |
| 37 | E | 301 | PID | C14-C15-C16-C17 |
| 37 | E | 301 | PID | C18-C19-C20-C21 |
| 37 | E | 301 | PID | C20-C21-C22-C23 |
| 38 | F | 305 | UIX | C7-C10-C11-C12 |
| 38 | F | 305 | UIX | C14-C23-C26-C29 |
| 38 | F | 305 | UIX | C14-C23-C26-C30 |
| 38 | F | 305 | UIX | C31-C27-O2-C18 |
| 38 | F | 305 | UIX | C25-C28-C32-C33 |
| 38 | F | 305 | UIX | C25-C28-C32-C35 |
| 38 | F | 305 | UIX | C36-C38-C40-C39 |
| 38 | F | 305 | UIX | C36-C38-C40-C41 |
| 38 | J | 304 | UIX | C11-C13-C14-C23 |
| 38 | J | 304 | UIX | C14-C23-C26-C29 |
| 38 | J | 304 | UIX | C14-C23-C26-C30 |
| 38 | L | 302 | UIX | C31-C27-O2-C18 |
| 38 | N | 306 | UIX | C36-C38-C40-C39 |
| 38 | N | 306 | UIX | C36-C38-C40-C41 |
| 38 | O | 306 | UIX | C25-C28-C32-C33 |
| 38 | O | 306 | UIX | C25-C28-C32-C35 |
| 38 | Q | 305 | UIX | C25-C28-C32-C33 |
| 38 | Q | 305 | UIX | C25-C28-C32-C35 |
| 38 | C | 306 | UIX | C31-C27-O2-C18 |
| 38 | C | 306 | UIX | C25-C28-C32-C33 |
| 38 | C | 306 | UIX | C25-C28-C32-C35 |
| 38 | C | 306 | UIX | C36-C38-C40-C39 |
| 38 | C | 306 | UIX | C36-C38-C40-C41 |
| 38 | P | 207 | UIX | C31-C27-O2-C18 |
| 39 | A | 205 | KC1 | C2B-C3B-CAB-CBB |
| 39 | A | 205 | KC1 | C4B-C3B-CAB-CBB |
| 39 | A | 213 | KC1 | C2B-C3B-CAB-CBB |
| 39 | A | 213 | KC1 | C4B-C3B-CAB-CBB |
| 39 | A | 213 | KC1 | C2A-CAA-CBA-CGA |
| 39 | A | 213 | KC1 | CAA-CBA-CGA-O2A |
| 39 | G | 315 | KC1 | C1A-C2A-CAA-CBA |
| 39 | G | 315 | KC1 | C2B-C3B-CAB-CBB |
| 39 | G | 318 | KC1 | C2B-C3B-CAB-CBB |
| 39 | G | 318 | KC1 | C2A-CAA-CBA-CGA |
| 39 | I | 215 | KC1 | C1A-C2A-CAA-CBA |
| 39 | I | 215 | KC1 | C2B-C3B-CAB-CBB |
| 39 | I | 215 | KC1 | C4B-C3B-CAB-CBB |
| 39 | I | 215 | KC1 | C2A-CAA-CBA-CGA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 39 | I | 215 | KC1 | CHA-CBD-CGD-O2D |
| 39 | I | 215 | KC1 | CBD-CGD-O2D-CED |
| 39 | K | 215 | KC1 | C1A-C2A-CAA-CBA |
| 39 | F | 309 | KC1 | C3A-C2A-CAA-CBA |
| 39 | F | 309 | KC1 | C2B-C3B-CAB-CBB |
| 39 | F | 309 | KC1 | C4B-C3B-CAB-CBB |
| 39 | F | 309 | KC1 | CHA-CBD-CGD-O1D |
| 39 | F | 309 | KC1 | CHA-CBD-CGD-O2D |
| 39 | F | 314 | KC1 | C2B-C3B-CAB-CBB |
| 39 | F | 314 | KC1 | C4B-C3B-CAB-CBB |
| 39 | F | 314 | KC1 | CBD-CGD-O2D-CED |
| 39 | F | 314 | KC1 | O1D-CGD-O2D-CED |
| 39 | J | 312 | KC1 | C2B-C3B-CAB-CBB |
| 39 | J | 312 | KC1 | C4B-C3B-CAB-CBB |
| 39 | J | 312 | KC1 | C2A-CAA-CBA-CGA |
| 39 | M | 305 | KC1 | C2B-C3B-CAB-CBB |
| 39 | M | 305 | KC1 | C4B-C3B-CAB-CBB |
| 39 | M | 312 | KC1 | C1A-C2A-CAA-CBA |
| 39 | M | 312 | KC1 | C3A-C2A-CAA-CBA |
| 39 | M | 312 | KC1 | C2B-C3B-CAB-CBB |
| 39 | M | 312 | KC1 | C4B-C3B-CAB-CBB |
| 39 | M | 312 | KC1 | CBD-CGD-O2D-CED |
| 39 | M | 312 | KC1 | O1D-CGD-O2D-CED |
| 39 | L | 306 | KC1 | C2B-C3B-CAB-CBB |
| 39 | L | 306 | KC1 | C4B-C3B-CAB-CBB |
| 39 | L | 314 | KC1 | C1A-C2A-CAA-CBA |
| 39 | L | 314 | KC1 | C3A-C2A-CAA-CBA |
| 39 | L | 314 | KC1 | CBD-CGD-O2D-CED |
| 39 | L | 314 | KC1 | O1D-CGD-O2D-CED |
| 39 | D | 310 | KC1 | C1A-C2A-CAA-CBA |
| 39 | D | 310 | KC1 | C3A-C2A-CAA-CBA |
| 39 | D | 310 | KC1 | C2B-C3B-CAB-CBB |
| 39 | D | 310 | KC1 | C4B-C3B-CAB-CBB |
| 39 | D | 315 | KC1 | C1A-C2A-CAA-CBA |
| 39 | D | 315 | KC1 | C3A-C2A-CAA-CBA |
| 39 | D | 315 | KC1 | C2B-C3B-CAB-CBB |
| 39 | D | 315 | KC1 | C4B-C3B-CAB-CBB |
| 39 | D | 315 | KC1 | CBD-CGD-O2D-CED |
| 39 | D | 315 | KC1 | O1D-CGD-O2D-CED |
| 39 | B | 313 | KC1 | C2B-C3B-CAB-CBB |
| 39 | B | 313 | KC1 | C4B-C3B-CAB-CBB |
| 39 | B | 313 | KC1 | C2A-CAA-CBA-CGA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 39 | B | 313 | KC1 | CBD-CGD-O2D-CED |
| 39 | H | 309 | KC1 | C1A-C2A-CAA-CBA |
| 39 | H | 309 | KC1 | C2B-C3B-CAB-CBB |
| 39 | H | 309 | KC1 | C4B-C3B-CAB-CBB |
| 39 | H | 311 | KC1 | C2B-C3B-CAB-CBB |
| 39 | H | 311 | KC1 | C4B-C3B-CAB-CBB |
| 39 | H | 311 | KC1 | CBD-CGD-O2D-CED |
| 39 | H | 314 | KC1 | C1A-C2A-CAA-CBA |
| 39 | H | 314 | KC1 | C3A-C2A-CAA-CBA |
| 39 | H | 314 | KC1 | CBD-CGD-O2D-CED |
| 39 | H | 314 | KC1 | O1D-CGD-O2D-CED |
| 39 | N | 310 | KC1 | C1A-C2A-CAA-CBA |
| 39 | N | 310 | KC1 | C3A-C2A-CAA-CBA |
| 39 | N | 310 | KC1 | C2B-C3B-CAB-CBB |
| 39 | N | 312 | KC1 | C2B-C3B-CAB-CBB |
| 39 | N | 312 | KC1 | C4B-C3B-CAB-CBB |
| 39 | N | 312 | KC1 | CBD-CGD-O2D-CED |
| 39 | N | 315 | KC1 | C1A-C2A-CAA-CBA |
| 39 | N | 315 | KC1 | C3A-C2A-CAA-CBA |
| 39 | N | 315 | KC1 | CBD-CGD-O2D-CED |
| 39 | N | 315 | KC1 | O1D-CGD-O2D-CED |
| 39 | O | 310 | KC1 | C3A-C2A-CAA-CBA |
| 39 | O | 312 | KC1 | C2B-C3B-CAB-CBB |
| 39 | O | 315 | KC1 | C3A-C2A-CAA-CBA |
| 39 | O | 315 | KC1 | C2A-CAA-CBA-CGA |
| 39 | T | 310 | KC1 | C1A-C2A-CAA-CBA |
| 39 | T | 310 | KC1 | C3A-C2A-CAA-CBA |
| 39 | T | 310 | KC1 | C2B-C3B-CAB-CBB |
| 39 | T | 310 | KC1 | C4B-C3B-CAB-CBB |
| 39 | T | 312 | KC1 | C1A-C2A-CAA-CBA |
| 39 | T | 312 | KC1 | C2B-C3B-CAB-CBB |
| 39 | T | 312 | KC1 | C4B-C3B-CAB-CBB |
| 39 | T | 315 | KC1 | C3A-C2A-CAA-CBA |
| 39 | Q | 309 | KC1 | C1A-C2A-CAA-CBA |
| 39 | Q | 309 | KC1 | C2B-C3B-CAB-CBB |
| 39 | Q | 309 | KC1 | C4B-C3B-CAB-CBB |
| 39 | Q | 309 | KC1 | CHA-CBD-CGD-O2D |
| 39 | Q | 311 | KC1 | C2B-C3B-CAB-CBB |
| 39 | Q | 311 | KC1 | C4B-C3B-CAB-CBB |
| 39 | Q | 314 | KC1 | C3A-C2A-CAA-CBA |
| 39 | Q | 314 | KC1 | CBD-CGD-O2D-CED |
| 39 | Q | 314 | KC1 | O1D-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 39 | C | 310 | KC1 | C1A-C2A-CAA-CBA |
| 39 | C | 310 | KC1 | C3A-C2A-CAA-CBA |
| 39 | C | 310 | KC1 | C2B-C3B-CAB-CBB |
| 39 | C | 310 | KC1 | CHA-CBD-CGD-O1D |
| 39 | C | 310 | KC1 | CHA-CBD-CGD-O2D |
| 39 | C | 312 | KC1 | C2B-C3B-CAB-CBB |
| 39 | C | 312 | KC1 | CHA-CBD-CGD-O1D |
| 39 | C | 315 | KC1 | C3A-C2A-CAA-CBA |
| 39 | C | 315 | KC1 | CBD-CGD-O2D-CED |
| 39 | P | 211 | KC1 | C1A-C2A-CAA-CBA |
| 39 | P | 211 | KC1 | C3A-C2A-CAA-CBA |
| 39 | P | 211 | KC1 | C2A-CAA-CBA-CGA |
| 39 | P | 213 | KC1 | C2B-C3B-CAB-CBB |
| 39 | P | 213 | KC1 | CHA-CBD-CGD-O2D |
| 39 | P | 216 | KC1 | C3A-C2A-CAA-CBA |
| 39 | P | 216 | KC1 | C2A-CAA-CBA-CGA |
| 39 | E | 307 | KC1 | C3A-C2A-CAA-CBA |
| 39 | E | 307 | KC1 | C2B-C3B-CAB-CBB |
| 39 | E | 307 | KC1 | C4B-C3B-CAB-CBB |
| 39 | E | 312 | KC1 | C1A-C2A-CAA-CBA |
| 39 | E | 312 | KC1 | C2B-C3B-CAB-CBB |
| 39 | E | 312 | KC1 | C4B-C3B-CAB-CBB |
| 40 | B | 317 | SQD | O5-C1-O6-C44 |
| 37 | h | 204 | PID | O7-C30-O6-C27 |
| 37 | G | 309 | PID | C31-C30-O6-C27 |
| 37 | F | 302 | PID | C31-C30-O6-C27 |
| 37 | D | 306 | PID | O7-C30-O6-C27 |
| 37 | H | 302 | PID | O7-C30-O6-C27 |
| 37 | H | 305 | PID | C31-C30-O6-C27 |
| 37 | H | 306 | PID | O7-C30-O6-C27 |
| 37 | O | 301 | PID | C31-C30-O6-C27 |
| 37 | O | 302 | PID | C31-C30-O6-C27 |
| 37 | O | 305 | PID | C31-C30-O6-C27 |
| 37 | Q | 304 | PID | C31-C30-O6-C27 |
| 37 | C | 302 | PID | C31-C30-O6-C27 |
| 37 | C | 305 | PID | C31-C30-O6-C27 |
| 37 | P | 203 | PID | C31-C30-O6-C27 |
| 37 | P | 206 | PID | C31-C30-O6-C27 |
| 37 | P | 208 | PID | C31-C30-O6-C27 |
| 38 | B | 304 | UIX | O4-C27-O2-C18 |
| 38 | N | 306 | UIX | C31-C27-O2-C18 |
| 38 | O | 306 | UIX | C31-C27-O2-C18 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 38 | T | 306 | UIX | C31-C27-O2-C18 |
| 38 | Q | 305 | UIX | C31-C27-O2-C18 |
| 29 | b | 731 | CLA | O1D-CGD-O2D-CED |
| 29 | b | 736 | CLA | O1D-CGD-O2D-CED |
| 29 | A | 217 | CLA | O1D-CGD-O2D-CED |
| 29 | G | 311 | CLA | O1D-CGD-O2D-CED |
| 29 | G | 316 | CLA | O1D-CGD-O2D-CED |
| 29 | M | 308 | CLA | O1D-CGD-O2D-CED |
| 29 | L | 307 | CLA | O1D-CGD-O2D-CED |
| 29 | L | 315 | CLA | O1D-CGD-O2D-CED |
| 29 | D | 309 | CLA | O1D-CGD-O2D-CED |
| 29 | D | 313 | CLA | O1D-CGD-O2D-CED |
| 29 | D | 316 | CLA | O1D-CGD-O2D-CED |
| 29 | N | 314 | CLA | O1D-CGD-O2D-CED |
| 29 | O | 316 | CLA | O1D-CGD-O2D-CED |
| 29 | T | 313 | CLA | O1D-CGD-O2D-CED |
| 29 | E | 310 | CLA | O1D-CGD-O2D-CED |
| 39 | C | 315 | KC1 | O1D-CGD-O2D-CED |
| 37 | h | 204 | PID | C31-C30-O6-C27 |
| 37 | D | 306 | PID | C31-C30-O6-C27 |
| 37 | H | 301 | PID | C31-C30-O6-C27 |
| 37 | H | 302 | PID | C31-C30-O6-C27 |
| 37 | H | 306 | PID | C31-C30-O6-C27 |
| 37 | N | 301 | PID | C31-C30-O6-C27 |
| 37 | T | 307 | PID | C31-C30-O6-C27 |
| 37 | T | 317 | PID | O7-C30-O6-C27 |
| 37 | C | 301 | PID | C31-C30-O6-C27 |
| 37 | C | 307 | PID | C31-C30-O6-C27 |
| 37 | P | 202 | PID | C31-C30-O6-C27 |
| 38 | A | 203 | UIX | C31-C27-O2-C18 |
| 38 | F | 305 | UIX | O4-C27-O2-C18 |
| 38 | L | 302 | UIX | O4-C27-O2-C18 |
| 38 | B | 304 | UIX | C31-C27-O2-C18 |
| 29 | a | 801 | CLA | O1D-CGD-O2D-CED |
| 29 | a | 803 | CLA | O1D-CGD-O2D-CED |
| 29 | a | 812 | CLA | O1D-CGD-O2D-CED |
| 29 | a | 817 | CLA | O1D-CGD-O2D-CED |
| 29 | a | 830 | CLA | O1D-CGD-O2D-CED |
| 29 | a | 831 | CLA | O1D-CGD-O2D-CED |
| 29 | b | 708 | CLA | O1D-CGD-O2D-CED |
| 29 | A | 210 | CLA | O1D-CGD-O2D-CED |
| 29 | I | 208 | CLA | O1D-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | I | 212 | CLA | O1D-CGD-O2D-CED |
| 29 | F | 312 | CLA | O1D-CGD-O2D-CED |
| 29 | L | 310 | CLA | O1D-CGD-O2D-CED |
| 29 | H | 312 | CLA | O1D-CGD-O2D-CED |
| 29 | N | 313 | CLA | O1D-CGD-O2D-CED |
| 29 | N | 316 | CLA | O1D-CGD-O2D-CED |
| 29 | Q | 310 | CLA | O1D-CGD-O2D-CED |
| 29 | Q | 315 | CLA | O1D-CGD-O2D-CED |
| 29 | C | 313 | CLA | O1D-CGD-O2D-CED |
| 29 | C | 316 | CLA | O1D-CGD-O2D-CED |
| 29 | P | 214 | CLA | O1D-CGD-O2D-CED |
| 29 | P | 215 | CLA | O1D-CGD-O2D-CED |
| 29 | E | 305 | CLA | O1D-CGD-O2D-CED |
| 39 | I | 215 | KC1 | O1D-CGD-O2D-CED |
| 39 | B | 313 | KC1 | O1D-CGD-O2D-CED |
| 29 | a | 803 | CLA | CBD-CGD-O2D-CED |
| 29 | a | 812 | CLA | CBD-CGD-O2D-CED |
| 29 | a | 813 | CLA | CBD-CGD-O2D-CED |
| 29 | a | 817 | CLA | CBD-CGD-O2D-CED |
| 29 | a | 819 | CLA | CBD-CGD-O2D-CED |
| 29 | a | 820 | CLA | CBD-CGD-O2D-CED |
| 29 | a | 827 | CLA | CBD-CGD-O2D-CED |
| 29 | a | 830 | CLA | CBD-CGD-O2D-CED |
| 29 | a | 831 | CLA | CBD-CGD-O2D-CED |
| 29 | b | 702 | CLA | CBD-CGD-O2D-CED |
| 29 | b | 704 | CLA | CBD-CGD-O2D-CED |
| 29 | b | 708 | CLA | CBD-CGD-O2D-CED |
| 29 | b | 719 | CLA | CBD-CGD-O2D-CED |
| 29 | f | 802 | CLA | CBD-CGD-O2D-CED |
| 29 | l | 502 | CLA | CBD-CGD-O2D-CED |
| 29 | A | 212 | CLA | CBD-CGD-O2D-CED |
| 29 | G | 311 | CLA | CBD-CGD-O2D-CED |
| 29 | I | 201 | CLA | CBD-CGD-O2D-CED |
| 29 | I | 208 | CLA | CBD-CGD-O2D-CED |
| 29 | I | 210 | CLA | CBD-CGD-O2D-CED |
| 29 | I | 212 | CLA | CBD-CGD-O2D-CED |
| 29 | I | 216 | CLA | CBD-CGD-O2D-CED |
| 29 | F | 310 | CLA | CBD-CGD-O2D-CED |
| 29 | F | 312 | CLA | CBD-CGD-O2D-CED |
| 29 | M | 306 | CLA | CBD-CGD-O2D-CED |
| 29 | M | 308 | CLA | CBD-CGD-O2D-CED |
| 29 | L | 310 | CLA | CBD-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | L | 312 | CLA | CBD-CGD-O2D-CED |
| 29 | D | 316 | CLA | CBD-CGD-O2D-CED |
| 29 | B | 316 | CLA | CBD-CGD-O2D-CED |
| 29 | N | 309 | CLA | CBD-CGD-O2D-CED |
| 29 | N | 311 | CLA | CBD-CGD-O2D-CED |
| 29 | N | 313 | CLA | CBD-CGD-O2D-CED |
| 29 | N | 316 | CLA | CBD-CGD-O2D-CED |
| 29 | O | 316 | CLA | CBD-CGD-O2D-CED |
| 29 | T | 309 | CLA | CBD-CGD-O2D-CED |
| 29 | Q | 310 | CLA | CBD-CGD-O2D-CED |
| 29 | Q | 315 | CLA | CBD-CGD-O2D-CED |
| 29 | C | 316 | CLA | CBD-CGD-O2D-CED |
| 29 | P | 209 | CLA | CBD-CGD-O2D-CED |
| 29 | E | 306 | CLA | CBD-CGD-O2D-CED |
| 39 | O | 315 | KC1 | CBD-CGD-O2D-CED |
| 29 | a | 806 | CLA | O1A-CGA-O2A-C1 |
| 29 | a | 813 | CLA | O1A-CGA-O2A-C1 |
| 29 | b | 707 | CLA | O1A-CGA-O2A-C1 |
| 29 | b | 709 | CLA | O1A-CGA-O2A-C1 |
| 29 | f | 805 | CLA | O1A-CGA-O2A-C1 |
| 29 | I | 209 | CLA | O1A-CGA-O2A-C1 |
| 29 | I | 213 | CLA | O1A-CGA-O2A-C1 |
| 29 | J | 310 | CLA | O1A-CGA-O2A-C1 |
| 29 | Q | 313 | CLA | O1A-CGA-O2A-C1 |
| 29 | a | 814 | CLA | O1A-CGA-O2A-C1 |
| 29 | a | 816 | CLA | O1A-CGA-O2A-C1 |
| 29 | b | 715 | CLA | O1A-CGA-O2A-C1 |
| 29 | K | 217 | CLA | O1A-CGA-O2A-C1 |
| 29 | F | 313 | CLA | O1A-CGA-O2A-C1 |
| 29 | M | 309 | CLA | O1A-CGA-O2A-C1 |
| 29 | Q | 312 | CLA | O1A-CGA-O2A-C1 |
| 38 | T | 306 | UIX | O4-C27-O2-C18 |
| 29 | a | 813 | CLA | O1D-CGD-O2D-CED |
| 29 | a | 823 | CLA | O1D-CGD-O2D-CED |
| 29 | b | 702 | CLA | O1D-CGD-O2D-CED |
| 29 | b | 704 | CLA | O1D-CGD-O2D-CED |
| 29 | l | 502 | CLA | O1D-CGD-O2D-CED |
| 29 | l | 504 | CLA | O1D-CGD-O2D-CED |
| 29 | I | 210 | CLA | O1D-CGD-O2D-CED |
| 29 | K | 213 | CLA | O1D-CGD-O2D-CED |
| 29 | D | 314 | CLA | O1D-CGD-O2D-CED |
| 29 | B | 307 | CLA | O1D-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | B | 316 | CLA | O1D-CGD-O2D-CED |
| 29 | N | 309 | CLA | O1D-CGD-O2D-CED |
| 29 | N | 311 | CLA | O1D-CGD-O2D-CED |
| 29 | a | 816 | CLA | CBA-CGA-O2A-C1 |
| 37 | N | 307 | PID | C31-C30-O6-C27 |
| 29 | a | 828 | CLA | O1D-CGD-O2D-CED |
| 29 | b | 705 | CLA | O1D-CGD-O2D-CED |
| 29 | I | 209 | CLA | O1D-CGD-O2D-CED |
| 29 | I | 217 | CLA | O1D-CGD-O2D-CED |
| 29 | K | 216 | CLA | O1D-CGD-O2D-CED |
| 29 | K | 218 | CLA | O1D-CGD-O2D-CED |
| 29 | J | 305 | CLA | O1D-CGD-O2D-CED |
| 29 | J | 306 | CLA | O1D-CGD-O2D-CED |
| 29 | L | 308 | CLA | O1D-CGD-O2D-CED |
| 29 | D | 308 | CLA | O1D-CGD-O2D-CED |
| 29 | H | 310 | CLA | O1D-CGD-O2D-CED |
| 29 | H | 313 | CLA | O1D-CGD-O2D-CED |
| 29 | H | 315 | CLA | O1D-CGD-O2D-CED |
| 29 | C | 314 | CLA | O1D-CGD-O2D-CED |
| 29 | a | 806 | CLA | CBA-CGA-O2A-C1 |
| 29 | b | 707 | CLA | CBA-CGA-O2A-C1 |
| 29 | b | 709 | CLA | CBA-CGA-O2A-C1 |
| 29 | f | 805 | CLA | CBA-CGA-O2A-C1 |
| 29 | I | 209 | CLA | CBA-CGA-O2A-C1 |
| 29 | J | 310 | CLA | CBA-CGA-O2A-C1 |
| 29 | Q | 313 | CLA | CBA-CGA-O2A-C1 |
| 34 | K | 219 | LMG | C29-C28-O8-C9 |
| 29 | a | 802 | CLA | CBD-CGD-O2D-CED |
| 29 | a | 814 | CLA | CBD-CGD-O2D-CED |
| 29 | a | 816 | CLA | CBD-CGD-O2D-CED |
| 29 | a | 826 | CLA | CBD-CGD-O2D-CED |
| 29 | a | 837 | CLA | CBD-CGD-O2D-CED |
| 29 | b | 717 | CLA | CBD-CGD-O2D-CED |
| 29 | i | 202 | CLA | CBD-CGD-O2D-CED |
| 29 | i | 203 | CLA | CBD-CGD-O2D-CED |
| 29 | l | 503 | CLA | CBD-CGD-O2D-CED |
| 29 | A | 209 | CLA | CBD-CGD-O2D-CED |
| 29 | I | 209 | CLA | CBD-CGD-O2D-CED |
| 29 | F | 308 | CLA | CBD-CGD-O2D-CED |
| 29 | J | 310 | CLA | CBD-CGD-O2D-CED |
| 29 | M | 313 | CLA | CBD-CGD-O2D-CED |
| 29 | L | 308 | CLA | CBD-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | L | 317 | CLA | CBD-CGD-O2D-CED |
| 29 | E | 311 | CLA | CBD-CGD-O2D-CED |
| 39 | Q | 309 | KC1 | CBD-CGD-O2D-CED |
| 39 | P | 213 | KC1 | CBD-CGD-O2D-CED |
| 37 | N | 307 | PID | O7-C30-O6-C27 |
| 38 | O | 306 | UIX | O4-C27-O2-C18 |
| 29 | b | 702 | CLA | O1A-CGA-O2A-C1 |
| 29 | l | 504 | CLA | O1A-CGA-O2A-C1 |
| 29 | M | 310 | CLA | O1A-CGA-O2A-C1 |
| 29 | D | 314 | CLA | O1A-CGA-O2A-C1 |
| 29 | B | 306 | CLA | O1A-CGA-O2A-C1 |
| 29 | N | 308 | CLA | O1A-CGA-O2A-C1 |
| 29 | N | 314 | CLA | O1A-CGA-O2A-C1 |
| 29 | O | 308 | CLA | O1A-CGA-O2A-C1 |
| 29 | T | 314 | CLA | O1A-CGA-O2A-C1 |
| 29 | C | 308 | CLA | O1A-CGA-O2A-C1 |
| 29 | C | 314 | CLA | O1A-CGA-O2A-C1 |
| 29 | P | 215 | CLA | O1A-CGA-O2A-C1 |
| 29 | E | 305 | CLA | O1A-CGA-O2A-C1 |
| 34 | b | 732 | LMG | O10-C28-O8-C9 |
| 34 | K | 219 | LMG | O10-C28-O8-C9 |
| 34 | E | 316 | LMG | O10-C28-O8-C9 |
| 35 | j | 106 | DGD | O1A-C1A-O1G-C1G |
| 29 | C | 313 | CLA | O1A-CGA-O2A-C1 |
| 29 | a | 805 | CLA | O1D-CGD-O2D-CED |
| 29 | a | 821 | CLA | O1D-CGD-O2D-CED |
| 29 | b | 707 | CLA | O1D-CGD-O2D-CED |
| 29 | b | 720 | CLA | O1D-CGD-O2D-CED |
| 29 | b | 722 | CLA | O1D-CGD-O2D-CED |
| 29 | G | 314 | CLA | O1D-CGD-O2D-CED |
| 29 | J | 313 | CLA | O1D-CGD-O2D-CED |
| 29 | D | 311 | CLA | O1D-CGD-O2D-CED |
| 29 | O | 313 | CLA | O1D-CGD-O2D-CED |
| 29 | T | 311 | CLA | O1D-CGD-O2D-CED |
| 38 | N | 306 | UIX | O4-C27-O2-C18 |
| 29 | T | 308 | CLA | O1D-CGD-O2D-CED |
| 29 | C | 311 | CLA | O1D-CGD-O2D-CED |
| 39 | N | 312 | KC1 | O1D-CGD-O2D-CED |
| 29 | b | 721 | CLA | CBD-CGD-O2D-CED |
| 29 | M | 310 | CLA | CBD-CGD-O2D-CED |
| 29 | B | 312 | CLA | CBD-CGD-O2D-CED |
| 39 | E | 312 | KC1 | CBD-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 34 | P | 201 | LMG | O9-C10-O7-C8 |
| 35 | b | 733 | DGD | O1B-C1B-O2G-C2G |
| 35 | j | 103 | DGD | O1B-C1B-O2G-C2G |
| 29 | a | 828 | CLA | CBA-CGA-O2A-C1 |
| 29 | F | 310 | CLA | CBA-CGA-O2A-C1 |
| 29 | F | 312 | CLA | CBA-CGA-O2A-C1 |
| 38 | C | 306 | UIX | O4-C27-O2-C18 |
| 29 | f | 803 | CLA | O1A-CGA-O2A-C1 |
| 29 | T | 313 | CLA | O1A-CGA-O2A-C1 |
| 29 | P | 214 | CLA | O1A-CGA-O2A-C1 |
| 29 | a | 829 | CLA | C3-C5-C6-C7 |
| 29 | b | 703 | CLA | C3-C5-C6-C7 |
| 29 | b | 706 | CLA | C3-C5-C6-C7 |
| 29 | b | 711 | CLA | C3-C5-C6-C7 |
| 29 | b | 713 | CLA | C3-C5-C6-C7 |
| 29 | b | 716 | CLA | C3-C5-C6-C7 |
| 29 | b | 717 | CLA | C3-C5-C6-C7 |
| 29 | f | 805 | CLA | C3-C5-C6-C7 |
| 29 | i | 201 | CLA | C3-C5-C6-C7 |
| 29 | A | 211 | CLA | C3-C5-C6-C7 |
| 29 | A | 212 | CLA | C3-C5-C6-C7 |
| 29 | A | 218 | CLA | C3-C5-C6-C7 |
| 29 | G | 317 | CLA | C3-C5-C6-C7 |
| 29 | I | 210 | CLA | C3-C5-C6-C7 |
| 29 | I | 213 | CLA | C3-C5-C6-C7 |
| 29 | J | 311 | CLA | C3-C5-C6-C7 |
| 29 | L | 312 | CLA | C3-C5-C6-C7 |
| 29 | B | 309 | CLA | C3-C5-C6-C7 |
| 29 | a | 813 | CLA | CBA-CGA-O2A-C1 |
| 29 | b | 702 | CLA | CBA-CGA-O2A-C1 |
| 29 | I | 213 | CLA | CBA-CGA-O2A-C1 |
| 29 | K | 209 | CLA | CBA-CGA-O2A-C1 |
| 29 | N | 308 | CLA | CBA-CGA-O2A-C1 |
| 29 | N | 314 | CLA | CBA-CGA-O2A-C1 |
| 29 | O | 308 | CLA | CBA-CGA-O2A-C1 |
| 29 | T | 314 | CLA | CBA-CGA-O2A-C1 |
| 29 | C | 314 | CLA | CBA-CGA-O2A-C1 |
| 29 | P | 209 | CLA | CBA-CGA-O2A-C1 |
| 34 | b | 732 | LMG | C29-C28-O8-C9 |
| 34 | E | 316 | LMG | C29-C28-O8-C9 |
| 37 | F | 304 | PID | O7-C30-O6-C27 |
| 38 | P | 207 | UIX | O4-C27-O2-C18 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 34 | h | 205 | LMG | C11-C10-O7-C8 |
| 29 | a | 819 | CLA | O1D-CGD-O2D-CED |
| 29 | F | 310 | CLA | O1D-CGD-O2D-CED |
| 29 | b | 709 | CLA | CBD-CGD-O2D-CED |
| 29 | C | 308 | CLA | CBD-CGD-O2D-CED |
| 29 | P | 210 | CLA | CBD-CGD-O2D-CED |
| 37 | j | 101 | PID | O7-C30-O6-C27 |
| 29 | H | 307 | CLA | O1A-CGA-O2A-C1 |
| 29 | F | 310 | CLA | O1A-CGA-O2A-C1 |
| 29 | F | 312 | CLA | O1A-CGA-O2A-C1 |
| 37 | G | 310 | PID | C31-C30-O6-C27 |
| 39 | B | 313 | KC1 | CAA-CBA-CGA-O1A |
| 29 | f | 802 | CLA | CBA-CGA-O2A-C1 |
| 29 | f | 803 | CLA | CBA-CGA-O2A-C1 |
| 29 | T | 313 | CLA | CBA-CGA-O2A-C1 |
| 29 | P | 214 | CLA | CBA-CGA-O2A-C1 |
| 29 | M | 314 | CLA | C3-C5-C6-C7 |
| 38 | Q | 305 | UIX | O4-C27-O2-C18 |
| 29 | a | 823 | CLA | C4-C3-C5-C6 |
| 29 | b | 716 | CLA | C4-C3-C5-C6 |
| 29 | L | 313 | CLA | C4-C3-C5-C6 |
| 29 | H | 308 | CLA | C4-C3-C5-C6 |
| 29 | C | 309 | CLA | C4-C3-C5-C6 |
| 29 | J | 311 | CLA | C2-C3-C5-C6 |
| 29 | L | 313 | CLA | C2-C3-C5-C6 |
| 29 | Q | 308 | CLA | C2-C3-C5-C6 |
| 29 | b | 712 | CLA | CBD-CGD-O2D-CED |
| 29 | K | 210 | CLA | CBD-CGD-O2D-CED |
| 29 | M | 314 | CLA | CBD-CGD-O2D-CED |
| 29 | P | 217 | CLA | CBD-CGD-O2D-CED |
| 29 | E | 309 | CLA | CBD-CGD-O2D-CED |
| 29 | a | 813 | CLA | C2A-CAA-CBA-CGA |
| 29 | b | 719 | CLA | C2A-CAA-CBA-CGA |
| 29 | b | 725 | CLA | C2A-CAA-CBA-CGA |
| 29 | b | 736 | CLA | C2A-CAA-CBA-CGA |
| 29 | h | 201 | CLA | C2A-CAA-CBA-CGA |
| 29 | A | 215 | CLA | C2A-CAA-CBA-CGA |
| 29 | G | 301 | CLA | C2A-CAA-CBA-CGA |
| 29 | I | 209 | CLA | C2A-CAA-CBA-CGA |
| 29 | M | 314 | CLA | C2A-CAA-CBA-CGA |
| 29 | D | 308 | CLA | C2A-CAA-CBA-CGA |
| 29 | A | 215 | CLA | O1A-CGA-O2A-C1 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | E | 306 | CLA | O1D-CGD-O2D-CED |
| 29 | a | 828 | CLA | O1A-CGA-O2A-C1 |
| 29 | b | 722 | CLA | C3-C5-C6-C7 |
| 29 | b | 736 | CLA | C3-C5-C6-C7 |
| 29 | i | 203 | CLA | C3-C5-C6-C7 |
| 29 | l | 505 | CLA | C3-C5-C6-C7 |
| 29 | H | 308 | CLA | C3-C5-C6-C7 |
| 30 | b | 727 | PQN | C13-C15-C16-C17 |
| 29 | a | 819 | CLA | CBA-CGA-O2A-C1 |
| 29 | l | 504 | CLA | CBA-CGA-O2A-C1 |
| 29 | A | 217 | CLA | CBA-CGA-O2A-C1 |
| 29 | M | 306 | CLA | CBA-CGA-O2A-C1 |
| 29 | M | 310 | CLA | CBA-CGA-O2A-C1 |
| 29 | L | 316 | CLA | CBA-CGA-O2A-C1 |
| 29 | D | 314 | CLA | CBA-CGA-O2A-C1 |
| 29 | B | 306 | CLA | CBA-CGA-O2A-C1 |
| 29 | C | 308 | CLA | CBA-CGA-O2A-C1 |
| 29 | P | 215 | CLA | CBA-CGA-O2A-C1 |
| 29 | E | 305 | CLA | CBA-CGA-O2A-C1 |
| 35 | j | 106 | DGD | C2A-C1A-O1G-C1G |
| 29 | b | 705 | CLA | C2C-C3C-CAC-CBC |
| 29 | C | 314 | CLA | C2-C1-O2A-CGA |
| 29 | O | 309 | CLA | CBD-CGD-O2D-CED |
| 29 | f | 802 | CLA | O1D-CGD-O2D-CED |
| 29 | A | 212 | CLA | O1D-CGD-O2D-CED |
| 29 | I | 216 | CLA | O1D-CGD-O2D-CED |
| 29 | T | 309 | CLA | O1D-CGD-O2D-CED |
| 29 | P | 209 | CLA | O1D-CGD-O2D-CED |
| 29 | a | 819 | CLA | O1A-CGA-O2A-C1 |
| 29 | b | 712 | CLA | O1A-CGA-O2A-C1 |
| 29 | A | 217 | CLA | O1A-CGA-O2A-C1 |
| 29 | L | 313 | CLA | O1A-CGA-O2A-C1 |
| 29 | L | 316 | CLA | O1A-CGA-O2A-C1 |
| 34 | A | 219 | LMG | O10-C28-O8-C9 |
| 29 | J | 309 | CLA | O1A-CGA-O2A-C1 |
| 29 | L | 317 | CLA | O1A-CGA-O2A-C1 |
| 29 | b | 719 | CLA | O1D-CGD-O2D-CED |
| 36 | I | 203 | DD6 | C1-C2-C3-C4 |
| 36 | K | 202 | DD6 | C3-C4-C5-C6 |
| 36 | L | 305 | DD6 | C11-C10-C9-C8 |
| 36 | D | 304 | DD6 | C3-C4-C5-C6 |
| 36 | O | 303 | DD6 | C24-C25-C26-C27 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 37 | G | 303 | PID | C14-C15-C16-C17 |
| 37 | N | 305 | PID | C14-C15-C16-C17 |
| 37 | C | 305 | PID | C14-C15-C16-C17 |
| 37 | P | 208 | PID | C18-C19-C20-C21 |
| 34 | j | 102 | LMG | O6-C5-C6-O5 |
| 34 | K | 201 | LMG | O6-C5-C6-O5 |
| 35 | b | 733 | DGD | O6E-C5E-C6E-O5E |
| 38 | E | 304 | UIX | C31-C27-O2-C18 |
| 29 | b | 710 | CLA | CBD-CGD-O2D-CED |
| 29 | b | 711 | CLA | CBD-CGD-O2D-CED |
| 29 | K | 214 | CLA | CBD-CGD-O2D-CED |
| 29 | F | 315 | CLA | CBD-CGD-O2D-CED |
| 29 | L | 316 | CLA | CBD-CGD-O2D-CED |
| 29 | N | 308 | CLA | CBD-CGD-O2D-CED |
| 29 | P | 212 | CLA | CBD-CGD-O2D-CED |
| 39 | C | 310 | KC1 | CBD-CGD-O2D-CED |
| 29 | M | 306 | CLA | O1D-CGD-O2D-CED |
| 29 | L | 312 | CLA | O1D-CGD-O2D-CED |
| 29 | a | 801 | CLA | C3-C5-C6-C7 |
| 29 | a | 804 | CLA | C3-C5-C6-C7 |
| 29 | a | 837 | CLA | C3-C5-C6-C7 |
| 29 | b | 704 | CLA | C3-C5-C6-C7 |
| 29 | b | 709 | CLA | C3-C5-C6-C7 |
| 29 | b | 718 | CLA | C3-C5-C6-C7 |
| 29 | G | 313 | CLA | C3-C5-C6-C7 |
| 29 | a | 820 | CLA | CBA-CGA-O2A-C1 |
| 29 | b | 720 | CLA | CBA-CGA-O2A-C1 |
| 29 | l | 505 | CLA | CBA-CGA-O2A-C1 |
| 29 | A | 215 | CLA | CBA-CGA-O2A-C1 |
| 29 | I | 207 | CLA | CBA-CGA-O2A-C1 |
| 29 | H | 307 | CLA | CBA-CGA-O2A-C1 |
| 34 | b | 730 | LMG | C29-C28-O8-C9 |
| 34 | A | 219 | LMG | C29-C28-O8-C9 |
| 37 | N | 302 | PID | C31-C30-O6-C27 |
| 38 | E | 304 | UIX | O4-C27-O2-C18 |
| 29 | M | 306 | CLA | O1A-CGA-O2A-C1 |
| 29 | a | 820 | CLA | O1D-CGD-O2D-CED |
| 34 | P | 201 | LMG | C11-C10-O7-C8 |
| 37 | N | 302 | PID | O7-C30-O6-C27 |
| 29 | K | 208 | CLA | CBA-CGA-O2A-C1 |
| 29 | E | 309 | CLA | CBA-CGA-O2A-C1 |
| 29 | M | 311 | CLA | CBD-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | L | 311 | CLA | CBD-CGD-O2D-CED |
| 29 | O | 311 | CLA | CBD-CGD-O2D-CED |
| 39 | H | 309 | KC1 | CBD-CGD-O2D-CED |
| 34 | A | 219 | LMG | O6-C5-C6-O5 |
| 29 | f | 802 | CLA | O1A-CGA-O2A-C1 |
| 29 | I | 201 | CLA | O1D-CGD-O2D-CED |
| 38 | A | 203 | UIX | O4-C27-O2-C18 |
| 29 | A | 206 | CLA | CBD-CGD-O2D-CED |
| 29 | F | 316 | CLA | CBD-CGD-O2D-CED |
| 29 | b | 712 | CLA | CBA-CGA-O2A-C1 |
| 29 | L | 313 | CLA | CBA-CGA-O2A-C1 |
| 29 | E | 306 | CLA | CBA-CGA-O2A-C1 |
| 34 | E | 316 | LMG | O6-C5-C6-O5 |
| 39 | C | 310 | KC1 | CAA-CBA-CGA-O2A |
| 29 | a | 820 | CLA | O1A-CGA-O2A-C1 |
| 29 | b | 720 | CLA | O1A-CGA-O2A-C1 |
| 29 | l | 505 | CLA | O1A-CGA-O2A-C1 |
| 34 | b | 730 | LMG | O10-C28-O8-C9 |
| 29 | M | 308 | CLA | O2A-C1-C2-C3 |
| 29 | a | 820 | CLA | C4-C3-C5-C6 |
| 29 | b | 711 | CLA | C4-C3-C5-C6 |
| 29 | i | 201 | CLA | C4-C3-C5-C6 |
| 29 | G | 312 | CLA | C4-C3-C5-C6 |
| 29 | L | 308 | CLA | C4-C3-C5-C6 |
| 29 | N | 309 | CLA | C4-C3-C5-C6 |
| 29 | a | 820 | CLA | C2-C3-C5-C6 |
| 29 | b | 711 | CLA | C2-C3-C5-C6 |
| 29 | b | 716 | CLA | C2-C3-C5-C6 |
| 29 | b | 717 | CLA | C2-C3-C5-C6 |
| 29 | i | 201 | CLA | C2-C3-C5-C6 |
| 29 | G | 302 | CLA | C2-C3-C5-C6 |
| 29 | G | 312 | CLA | C2-C3-C5-C6 |
| 29 | L | 308 | CLA | C2-C3-C5-C6 |
| 29 | N | 309 | CLA | C2-C3-C5-C6 |
| 29 | E | 306 | CLA | C2A-CAA-CBA-CGA |
| 29 | a | 827 | CLA | O1D-CGD-O2D-CED |
| 34 | K | 220 | LMG | O6-C5-C6-O5 |
| 29 | I | 207 | CLA | O1A-CGA-O2A-C1 |
| 29 | E | 306 | CLA | O1A-CGA-O2A-C1 |
| 35 | G | 320 | DGD | O6E-C1E-O5D-C6D |
| 29 | a | 824 | CLA | CBA-CGA-O2A-C1 |
| 29 | L | 312 | CLA | CBA-CGA-O2A-C1 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | B | 311 | CLA | CBA-CGA-O2A-C1 |
| 34 | j | 102 | LMG | C29-C28-O8-C9 |
| 35 | b | 733 | DGD | C2A-C1A-O1G-C1G |
| 29 | M | 311 | CLA | CBA-CGA-O2A-C1 |
| 29 | E | 310 | CLA | CBA-CGA-O2A-C1 |
| 34 | b | 730 | LMG | C11-C10-O7-C8 |
| 34 | K | 219 | LMG | C4-C5-C6-O5 |
| 35 | b | 733 | DGD | C4E-C5E-C6E-O5E |
| 29 | a | 814 | CLA | O1D-CGD-O2D-CED |
| 29 | l | 503 | CLA | O1D-CGD-O2D-CED |
| 29 | H | 313 | CLA | C2-C1-O2A-CGA |
| 29 | a | 826 | CLA | O1D-CGD-O2D-CED |
| 29 | L | 312 | CLA | O1A-CGA-O2A-C1 |
| 29 | b | 721 | CLA | C3-C5-C6-C7 |
| 29 | B | 315 | CLA | CBA-CGA-O2A-C1 |
| 29 | a | 807 | CLA | CBA-CGA-O2A-C1 |
| 29 | a | 811 | CLA | CBA-CGA-O2A-C1 |
| 29 | a | 829 | CLA | CBA-CGA-O2A-C1 |
| 29 | a | 830 | CLA | CBA-CGA-O2A-C1 |
| 29 | b | 724 | CLA | CBA-CGA-O2A-C1 |
| 29 | j | 104 | CLA | CBA-CGA-O2A-C1 |
| 29 | G | 304 | CLA | CBA-CGA-O2A-C1 |
| 29 | G | 317 | CLA | CBA-CGA-O2A-C1 |
| 29 | K | 214 | CLA | CBA-CGA-O2A-C1 |
| 29 | L | 308 | CLA | CBA-CGA-O2A-C1 |
| 29 | O | 314 | CLA | CBA-CGA-O2A-C1 |
| 29 | b | 718 | CLA | CBD-CGD-O2D-CED |
| 34 | K | 220 | LMG | C4-C5-C6-O5 |
| 29 | E | 309 | CLA | O1A-CGA-O2A-C1 |
| 29 | a | 837 | CLA | O1D-CGD-O2D-CED |
| 29 | i | 202 | CLA | O1D-CGD-O2D-CED |
| 36 | I | 203 | DD6 | C11-C10-C9-C8 |
| 36 | F | 301 | DD6 | C3-C4-C5-C6 |
| 36 | T | 303 | DD6 | C24-C25-C26-C27 |
| 38 | F | 305 | UIX | C11-C13-C14-C23 |
| 38 | P | 207 | UIX | C34-C37-C39-C40 |
| 29 | l | 504 | CLA | C13-C15-C16-C17 |
| 34 | j | 102 | LMG | C4-C5-C6-O5 |
| 37 | G | 303 | PID | C31-C30-O6-C27 |
| 39 | A | 213 | KC1 | CAA-CBA-CGA-O1A |
| 39 | K | 215 | KC1 | CAA-CBA-CGA-O2A |
| 39 | L | 314 | KC1 | CAA-CBA-CGA-O1A |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 39 | H | 309 | KC1 | CAA-CBA-CGA-O2A |
| 39 | C | 312 | KC1 | CAA-CBA-CGA-O1A |
| 39 | E | 307 | KC1 | CAA-CBA-CGA-O2A |
| 29 | K | 208 | CLA | O1A-CGA-O2A-C1 |
| 34 | K | 201 | LMG | C4-C5-C6-O5 |
| 29 | a | 829 | CLA | C15-C16-C17-C18 |
| 29 | i | 201 | CLA | C10-C11-C12-C13 |
| 29 | l | 502 | CLA | C8-C10-C11-C12 |
| 35 | b | 733 | DGD | C2D-C1D-O3G-C3G |
| 40 | J | 314 | SQD | C2-C1-O6-C44 |
| 34 | b | 730 | LMG | O7-C8-C9-O8 |
| 29 | b | 724 | CLA | O1A-CGA-O2A-C1 |
| 29 | G | 317 | CLA | O1A-CGA-O2A-C1 |
| 29 | a | 831 | CLA | C4-C3-C5-C6 |
| 29 | H | 308 | CLA | C2-C3-C5-C6 |
| 29 | a | 807 | CLA | C11-C10-C8-C9 |
| 29 | a | 807 | CLA | C11-C12-C13-C14 |
| 29 | a | 823 | CLA | C6-C7-C8-C9 |
| 29 | a | 824 | CLA | C6-C7-C8-C9 |
| 29 | a | 829 | CLA | C6-C7-C8-C9 |
| 29 | a | 829 | CLA | C11-C12-C13-C14 |
| 29 | a | 829 | CLA | C14-C13-C15-C16 |
| 29 | b | 704 | CLA | C6-C7-C8-C9 |
| 29 | b | 705 | CLA | C14-C13-C15-C16 |
| 29 | l | 505 | CLA | C6-C7-C8-C9 |
| 29 | A | 218 | CLA | C6-C7-C8-C9 |
| 29 | I | 213 | CLA | C11-C12-C13-C14 |
| 29 | B | 310 | CLA | C6-C7-C8-C9 |
| 29 | Q | 308 | CLA | C6-C7-C8-C9 |
| 29 | A | 209 | CLA | O1D-CGD-O2D-CED |
| 29 | M | 313 | CLA | O1D-CGD-O2D-CED |
| 29 | L | 317 | CLA | O1D-CGD-O2D-CED |
| 29 | B | 310 | CLA | C5-C6-C7-C8 |
| 32 | a | 838 | BCR | C37-C22-C23-C24 |
| 32 | b | 728 | BCR | C36-C18-C19-C20 |
| 32 | f | 801 | BCR | C7-C8-C9-C34 |
| 32 | l | 506 | BCR | C37-C22-C23-C24 |
| 32 | l | 507 | BCR | C11-C12-C13-C35 |
| 36 | h | 202 | DD6 | C12-C11-C13-C14 |
| 36 | G | 307 | DD6 | C12-C11-C13-C14 |
| 36 | I | 203 | DD6 | C-C1-C24-C25 |
| 36 | F | 301 | DD6 | C12-C11-C13-C14 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 36 | F | 301 | DD6 | C7-C6-C8-C9 |
| 36 | M | 303 | DD6 | C12-C11-C13-C14 |
| 36 | L | 301 | DD6 | C12-C11-C13-C14 |
| 36 | L | 304 | DD6 | C12-C11-C13-C14 |
| 36 | B | 301 | DD6 | C12-C11-C13-C14 |
| 36 | B | 319 | DD6 | C-C1-C24-C25 |
| 36 | E | 302 | DD6 | C12-C11-C13-C14 |
| 32 | l | 506 | BCR | C21-C22-C23-C24 |
| 36 | G | 307 | DD6 | C10-C11-C13-C14 |
| 36 | I | 203 | DD6 | C2-C1-C24-C25 |
| 36 | K | 202 | DD6 | C10-C11-C13-C14 |
| 36 | F | 301 | DD6 | C10-C11-C13-C14 |
| 36 | M | 303 | DD6 | C10-C11-C13-C14 |
| 36 | M | 303 | DD6 | C5-C6-C8-C9 |
| 36 | L | 301 | DD6 | C10-C11-C13-C14 |
| 36 | L | 304 | DD6 | C10-C11-C13-C14 |
| 36 | B | 301 | DD6 | C10-C11-C13-C14 |
| 36 | B | 319 | DD6 | C2-C1-C24-C25 |
| 36 | E | 302 | DD6 | C10-C11-C13-C14 |
| 38 | F | 305 | UIX | C7-C10-C11-C13 |
| 34 | K | 201 | LMG | C11-C10-O7-C8 |
| 29 | a | 811 | CLA | O1A-CGA-O2A-C1 |
| 29 | a | 830 | CLA | O1A-CGA-O2A-C1 |
| 29 | K | 214 | CLA | O1A-CGA-O2A-C1 |
| 29 | L | 308 | CLA | O1A-CGA-O2A-C1 |
| 29 | O | 314 | CLA | O1A-CGA-O2A-C1 |
| 29 | a | 829 | CLA | C13-C15-C16-C17 |
| 29 | a | 816 | CLA | O1D-CGD-O2D-CED |
| 39 | H | 311 | KC1 | O1D-CGD-O2D-CED |
| 29 | J | 307 | CLA | CBA-CGA-O2A-C1 |
| 39 | A | 205 | KC1 | CAA-CBA-CGA-O2A |
| 39 | M | 305 | KC1 | CAA-CBA-CGA-O2A |
| 39 | Q | 311 | KC1 | CAA-CBA-CGA-O2A |
| 39 | C | 312 | KC1 | CAA-CBA-CGA-O2A |
| 29 | F | 308 | CLA | O1D-CGD-O2D-CED |
| 29 | l | 501 | CLA | C3-C5-C6-C7 |
| 29 | l | 504 | CLA | C3-C5-C6-C7 |
| 29 | l | 501 | CLA | CBA-CGA-O2A-C1 |
| 29 | l | 503 | CLA | CBA-CGA-O2A-C1 |
| 29 | Q | 308 | CLA | CBA-CGA-O2A-C1 |
| 29 | a | 824 | CLA | C13-C15-C16-C17 |
| 29 | b | 702 | CLA | C10-C11-C12-C13 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | b | 707 | CLA | C8-C10-C11-C12 |
| 29 | b | 707 | CLA | C15-C16-C17-C18 |
| 29 | b | 718 | CLA | C8-C10-C11-C12 |
| 29 | b | 725 | CLA | C15-C16-C17-C18 |
| 29 | l | 504 | CLA | C10-C11-C12-C13 |
| 34 | K | 219 | LMG | O6-C5-C6-O5 |
| 34 | b | 732 | LMG | C10-C11-C12-C13 |
| 34 | E | 316 | LMG | C28-C29-C30-C31 |
| 29 | J | 310 | CLA | O1D-CGD-O2D-CED |
| 29 | b | 701 | CLA | C8-C10-C11-C12 |
| 29 | b | 709 | CLA | C5-C6-C7-C8 |
| 29 | i | 202 | CLA | C5-C6-C7-C8 |
| 29 | G | 312 | CLA | C5-C6-C7-C8 |
| 29 | J | 306 | CLA | C8-C10-C11-C12 |
| 29 | E | 306 | CLA | C13-C15-C16-C17 |
| 29 | j | 104 | CLA | O1A-CGA-O2A-C1 |
| 34 | b | 732 | LMG | C28-C29-C30-C31 |
| 35 | j | 103 | DGD | C1B-C2B-C3B-C4B |
| 34 | b | 730 | LMG | O6-C5-C6-O5 |
| 29 | a | 807 | CLA | C5-C6-C7-C8 |
| 29 | b | 703 | CLA | C10-C11-C12-C13 |
| 29 | a | 802 | CLA | O1D-CGD-O2D-CED |
| 29 | b | 717 | CLA | O1D-CGD-O2D-CED |
| 39 | L | 306 | KC1 | CAA-CBA-CGA-O2A |
| 39 | B | 313 | KC1 | CAA-CBA-CGA-O2A |
| 39 | O | 310 | KC1 | CAA-CBA-CGA-O2A |
| 39 | O | 315 | KC1 | CAA-CBA-CGA-O2A |
| 29 | b | 703 | CLA | C13-C15-C16-C17 |
| 29 | G | 312 | CLA | C10-C11-C12-C13 |
| 29 | B | 310 | CLA | C10-C11-C12-C13 |
| 35 | m | 102 | DGD | C4D-C5D-C6D-O5D |
| 35 | h | 203 | DGD | C1B-C2B-C3B-C4B |
| 35 | j | 106 | DGD | C1B-C2B-C3B-C4B |
| 29 | K | 213 | CLA | O2A-C1-C2-C3 |
| 29 | a | 823 | CLA | C6-C7-C8-C10 |
| 29 | a | 829 | CLA | C11-C12-C13-C15 |
| 29 | b | 703 | CLA | C11-C10-C8-C7 |
| 29 | b | 706 | CLA | C6-C7-C8-C10 |
| 29 | b | 736 | CLA | C6-C7-C8-C10 |
| 29 | E | 308 | CLA | C11-C10-C8-C7 |
| 30 | a | 832 | PQN | C13-C15-C16-C17 |
| 29 | a | 829 | CLA | O1A-CGA-O2A-C1 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | G | 304 | CLA | O1A-CGA-O2A-C1 |
| 36 | I | 202 | DD6 | C24-C25-C26-C27 |
| 36 | I | 203 | DD6 | C24-C25-C26-C27 |
| 36 | F | 301 | DD6 | C11-C10-C9-C8 |
| 36 | B | 319 | DD6 | C1-C2-C3-C4 |
| 36 | B | 319 | DD6 | C3-C4-C5-C6 |
| 38 | P | 207 | UIX | C32-C35-C36-C38 |
| 29 | b | 702 | CLA | C2A-CAA-CBA-CGA |
| 29 | b | 717 | CLA | C2A-CAA-CBA-CGA |
| 29 | K | 209 | CLA | C2A-CAA-CBA-CGA |
| 29 | L | 307 | CLA | C2A-CAA-CBA-CGA |
| 29 | N | 313 | CLA | C2A-CAA-CBA-CGA |
| 29 | b | 721 | CLA | O1D-CGD-O2D-CED |
| 29 | i | 203 | CLA | O1D-CGD-O2D-CED |
| 29 | M | 310 | CLA | O1D-CGD-O2D-CED |
| 29 | B | 312 | CLA | O1D-CGD-O2D-CED |
| 29 | E | 311 | CLA | O1D-CGD-O2D-CED |
| 29 | a | 806 | CLA | C15-C16-C17-C18 |
| 29 | b | 718 | CLA | C5-C6-C7-C8 |
| 29 | i | 201 | CLA | C5-C6-C7-C8 |
| 29 | l | 505 | CLA | C5-C6-C7-C8 |
| 29 | I | 210 | CLA | C5-C6-C7-C8 |
| 29 | E | 311 | CLA | C5-C6-C7-C8 |
| 29 | E | 315 | CLA | C5-C6-C7-C8 |
| 37 | G | 310 | PID | O7-C30-O6-C27 |
| 39 | M | 305 | KC1 | CAA-CBA-CGA-O1A |
| 29 | a | 807 | CLA | O1A-CGA-O2A-C1 |
| 29 | Q | 308 | CLA | O1A-CGA-O2A-C1 |
| 34 | K | 201 | LMG | O6-C1-O1-C7 |
| 29 | l | 501 | CLA | C10-C11-C12-C13 |
| 35 | b | 733 | DGD | C1A-C2A-C3A-C4A |
| 35 | j | 106 | DGD | C1A-C2A-C3A-C4A |
| 29 | E | 311 | CLA | C3-C5-C6-C7 |
| 29 | b | 718 | CLA | C10-C11-C12-C13 |
| 29 | i | 201 | CLA | C15-C16-C17-C18 |
| 29 | I | 211 | CLA | C5-C6-C7-C8 |
| 29 | I | 213 | CLA | C13-C15-C16-C17 |
| 29 | K | 211 | CLA | C5-C6-C7-C8 |
| 29 | a | 808 | CLA | CBA-CGA-O2A-C1 |
| 29 | A | 212 | CLA | CBA-CGA-O2A-C1 |
| 29 | D | 308 | CLA | CBA-CGA-O2A-C1 |
| 29 | b | 705 | CLA | C4C-C3C-CAC-CBC |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | J | 311 | CLA | CBD-CGD-O2D-CED |
| 29 | a | 824 | CLA | O1A-CGA-O2A-C1 |
| 29 | B | 311 | CLA | O1A-CGA-O2A-C1 |
| 35 | b | 733 | DGD | O1A-C1A-O1G-C1G |
| 29 | a | 807 | CLA | C10-C11-C12-C13 |
| 29 | I | 209 | CLA | C10-C11-C12-C13 |
| 29 | I | 213 | CLA | C15-C16-C17-C18 |
| 29 | L | 312 | CLA | C5-C6-C7-C8 |
| 29 | B | 308 | CLA | C5-C6-C7-C8 |
| 29 | C | 308 | CLA | O1D-CGD-O2D-CED |
| 29 | P | 210 | CLA | O1D-CGD-O2D-CED |
| 29 | M | 307 | CLA | CBD-CGD-O2D-CED |
| 39 | T | 315 | KC1 | CAA-CBA-CGA-O2A |
| 29 | a | 826 | CLA | C15-C16-C17-C18 |
| 29 | b | 736 | CLA | C15-C16-C17-C18 |
| 29 | A | 209 | CLA | C8-C10-C11-C12 |
| 29 | G | 312 | CLA | C13-C15-C16-C17 |
| 29 | G | 316 | CLA | C13-C15-C16-C17 |
| 29 | E | 306 | CLA | C15-C16-C17-C18 |
| 29 | a | 810 | CLA | C3-C5-C6-C7 |
| 29 | K | 211 | CLA | C3-C5-C6-C7 |
| 29 | E | 305 | CLA | C3-C5-C6-C7 |
| 29 | I | 211 | CLA | CBA-CGA-O2A-C1 |
| 29 | J | 306 | CLA | CBA-CGA-O2A-C1 |
| 34 | P | 201 | LMG | C29-C28-O8-C9 |
| 29 | B | 310 | CLA | C15-C16-C17-C18 |
| 29 | E | 305 | CLA | C10-C11-C12-C13 |
| 35 | m | 102 | DGD | O6D-C5D-C6D-O5D |
| 29 | b | 709 | CLA | O1D-CGD-O2D-CED |
| 29 | C | 309 | CLA | C2-C3-C5-C6 |
| 29 | b | 723 | CLA | C5-C6-C7-C8 |
| 29 | l | 503 | CLA | C8-C10-C11-C12 |
| 29 | a | 809 | CLA | C2A-CAA-CBA-CGA |
| 29 | a | 823 | CLA | C2A-CAA-CBA-CGA |
| 29 | I | 211 | CLA | C2A-CAA-CBA-CGA |
| 29 | L | 308 | CLA | C2A-CAA-CBA-CGA |
| 29 | l | 502 | CLA | C16-C17-C18-C20 |
| 37 | P | 202 | PID | C16-C17-C18-C19 |
| 39 | G | 318 | KC1 | CAA-CBA-CGA-O2A |
| 29 | a | 809 | CLA | CBA-CGA-O2A-C1 |
| 29 | a | 826 | CLA | CBA-CGA-O2A-C1 |
| 29 | b | 736 | CLA | CBA-CGA-O2A-C1 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | K | 210 | CLA | O1D-CGD-O2D-CED |
| 36 | G | 305 | DD6 | C1-C2-C3-C4 |
| 36 | G | 305 | DD6 | C3-C4-C5-C6 |
| 36 | D | 304 | DD6 | C1-C2-C3-C4 |
| 38 | F | 305 | UIX | C32-C35-C36-C38 |
| 38 | O | 306 | UIX | C26-C30-C34-C37 |
| 38 | O | 306 | UIX | C32-C35-C36-C38 |
| 34 | b | 730 | LMG | C38-C39-C40-C41 |
| 29 | M | 314 | CLA | O1D-CGD-O2D-CED |
| 29 | M | 309 | CLA | CBD-CGD-O2D-CED |
| 37 | O | 304 | PID | C19-C20-C21-CM5 |
| 37 | Q | 306 | PID | C19-C20-C21-CM5 |
| 29 | a | 827 | CLA | C3-C5-C6-C7 |
| 29 | N | 309 | CLA | C3-C5-C6-C7 |
| 34 | b | 732 | LMG | C32-C33-C34-C35 |
| 34 | K | 220 | LMG | C30-C31-C32-C33 |
| 35 | j | 103 | DGD | C2B-C3B-C4B-C5B |
| 29 | l | 501 | CLA | O1A-CGA-O2A-C1 |
| 29 | P | 217 | CLA | O1D-CGD-O2D-CED |
| 39 | K | 215 | KC1 | C2A-CAA-CBA-CGA |
| 39 | D | 310 | KC1 | C2A-CAA-CBA-CGA |
| 39 | H | 309 | KC1 | C2A-CAA-CBA-CGA |
| 39 | N | 315 | KC1 | C2A-CAA-CBA-CGA |
| 29 | I | 212 | CLA | C6-C7-C8-C10 |
| 29 | L | 312 | CLA | C6-C7-C8-C10 |
| 29 | N | 309 | CLA | C16-C17-C18-C19 |
| 35 | b | 733 | DGD | C9B-CAB-CBB-CCB |
| 35 | G | 320 | DGD | C2A-C3A-C4A-C5A |
| 29 | O | 309 | CLA | O1D-CGD-O2D-CED |
| 29 | E | 309 | CLA | O1D-CGD-O2D-CED |
| 34 | K | 219 | LMG | O9-C10-O7-C8 |
| 39 | I | 215 | KC1 | CAA-CBA-CGA-O2A |
| 39 | N | 315 | KC1 | CAA-CBA-CGA-O2A |
| 34 | K | 220 | LMG | C28-C29-C30-C31 |
| 29 | b | 712 | CLA | O1D-CGD-O2D-CED |
| 35 | b | 733 | DGD | C7B-C8B-C9B-CAB |
| 35 | b | 733 | DGD | O6D-C5D-C6D-O5D |
| 29 | N | 308 | CLA | O1D-CGD-O2D-CED |
| 29 | b | 717 | CLA | C5-C6-C7-C8 |
| 29 | L | 311 | CLA | CBA-CGA-O2A-C1 |
| 34 | b | 732 | LMG | C33-C34-C35-C36 |
| 34 | K | 201 | LMG | C2-C1-O1-C7 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 37 | O | 304 | PID | C19-C20-C21-C22 |
| 37 | Q | 306 | PID | C19-C20-C21-C22 |
| 29 | L | 307 | CLA | CBA-CGA-O2A-C1 |
| 34 | j | 102 | LMG | C18-C19-C20-C21 |
| 29 | a | 825 | CLA | C13-C15-C16-C17 |
| 29 | b | 736 | CLA | O1A-CGA-O2A-C1 |
| 29 | l | 503 | CLA | O1A-CGA-O2A-C1 |
| 34 | j | 102 | LMG | O10-C28-O8-C9 |
| 29 | a | 810 | CLA | C6-C7-C8-C10 |
| 29 | G | 314 | CLA | C11-C12-C13-C15 |
| 29 | I | 210 | CLA | C6-C7-C8-C9 |
| 29 | H | 308 | CLA | C16-C17-C18-C20 |
| 29 | P | 210 | CLA | C16-C17-C18-C20 |
| 29 | F | 315 | CLA | O1D-CGD-O2D-CED |
| 29 | a | 823 | CLA | C2-C3-C5-C6 |
| 29 | a | 824 | CLA | C14-C13-C15-C16 |
| 29 | b | 709 | CLA | C11-C10-C8-C9 |
| 29 | l | 503 | CLA | C6-C7-C8-C9 |
| 29 | P | 210 | CLA | C14-C13-C15-C16 |
| 29 | E | 311 | CLA | C11-C12-C13-C14 |
| 34 | b | 730 | LMG | C36-C37-C38-C39 |
| 34 | b | 732 | LMG | C31-C32-C33-C34 |
| 34 | K | 201 | LMG | C34-C35-C36-C37 |
| 29 | b | 706 | CLA | C8-C10-C11-C12 |
| 39 | J | 312 | KC1 | CAA-CBA-CGA-O2A |
| 39 | L | 306 | KC1 | CAA-CBA-CGA-O1A |
| 39 | Q | 311 | KC1 | CAA-CBA-CGA-O1A |
| 39 | C | 315 | KC1 | CAA-CBA-CGA-O2A |
| 39 | E | 307 | KC1 | CAA-CBA-CGA-O1A |
| 29 | a | 837 | CLA | C2A-CAA-CBA-CGA |
| 29 | l | 510 | CLA | C2A-CAA-CBA-CGA |
| 29 | I | 211 | CLA | O1A-CGA-O2A-C1 |
| 32 | b | 728 | BCR | C37-C22-C23-C24 |
| 32 | l | 506 | BCR | C7-C8-C9-C34 |
| 36 | I | 205 | DD6 | C12-C11-C13-C14 |
| 36 | K | 202 | DD6 | C12-C11-C13-C14 |
| 36 | J | 302 | DD6 | C12-C11-C13-C14 |
| 36 | J | 303 | DD6 | C12-C11-C13-C14 |
| 34 | K | 201 | LMG | C31-C32-C33-C34 |
| 32 | b | 728 | BCR | C21-C22-C23-C24 |
| 36 | I | 205 | DD6 | C10-C11-C13-C14 |
| 36 | J | 302 | DD6 | C10-C11-C13-C14 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 36 | J | 303 | DD6 | C10-C11-C13-C14 |
| 29 | i | 202 | CLA | C3-C5-C6-C7 |
| 29 | G | 302 | CLA | C3-C5-C6-C7 |
| 29 | I | 211 | CLA | C3-C5-C6-C7 |
| 29 | b | 714 | CLA | C5-C6-C7-C8 |
| 29 | K | 212 | CLA | CBD-CGD-O2D-CED |
| 39 | A | 205 | KC1 | CBD-CGD-O2D-CED |
| 34 | b | 730 | LMG | C14-C15-C16-C17 |
| 34 | b | 734 | LMG | C18-C19-C20-C21 |
| 29 | b | 717 | CLA | C16-C17-C18-C19 |
| 29 | b | 717 | CLA | C16-C17-C18-C20 |
| 29 | I | 212 | CLA | C6-C7-C8-C9 |
| 29 | L | 312 | CLA | C6-C7-C8-C9 |
| 29 | P | 210 | CLA | C16-C17-C18-C19 |
| 29 | P | 210 | CLA | C5-C6-C7-C8 |
| 34 | A | 219 | LMG | C30-C31-C32-C33 |
| 35 | j | 106 | DGD | C2A-C3A-C4A-C5A |
| 29 | E | 314 | CLA | CBD-CGD-O2D-CED |
| 34 | b | 732 | LMG | O6-C5-C6-O5 |
| 39 | A | 205 | KC1 | CAA-CBA-CGA-O1A |
| 39 | K | 215 | KC1 | CAA-CBA-CGA-O1A |
| 29 | a | 809 | CLA | O1A-CGA-O2A-C1 |
| 29 | a | 826 | CLA | O1A-CGA-O2A-C1 |
| 34 | j | 102 | LMG | C17-C18-C19-C20 |
| 29 | E | 310 | CLA | O1A-CGA-O2A-C1 |
| 29 | a | 821 | CLA | CBA-CGA-O2A-C1 |
| 29 | b | 711 | CLA | CBA-CGA-O2A-C1 |
| 29 | B | 308 | CLA | CBA-CGA-O2A-C1 |
| 29 | b | 710 | CLA | O1D-CGD-O2D-CED |
| 29 | a | 806 | CLA | C3A-C2A-CAA-CBA |
| 29 | a | 811 | CLA | C3A-C2A-CAA-CBA |
| 29 | a | 812 | CLA | C3A-C2A-CAA-CBA |
| 29 | a | 828 | CLA | C3A-C2A-CAA-CBA |
| 29 | b | 706 | CLA | C3A-C2A-CAA-CBA |
| 29 | b | 717 | CLA | C3A-C2A-CAA-CBA |
| 29 | f | 803 | CLA | C3A-C2A-CAA-CBA |
| 29 | F | 310 | CLA | C3A-C2A-CAA-CBA |
| 29 | L | 316 | CLA | C3A-C2A-CAA-CBA |
| 29 | D | 314 | CLA | C3A-C2A-CAA-CBA |
| 29 | H | 313 | CLA | C3A-C2A-CAA-CBA |
| 29 | N | 314 | CLA | C3A-C2A-CAA-CBA |
| 29 | T | 314 | CLA | C3A-C2A-CAA-CBA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | Q | 313 | CLA | C3A-C2A-CAA-CBA |
| 29 | C | 314 | CLA | C3A-C2A-CAA-CBA |
| 29 | P | 215 | CLA | C3A-C2A-CAA-CBA |
| 29 | a | 803 | CLA | C15-C16-C17-C18 |
| 29 | b | 704 | CLA | C13-C15-C16-C17 |
| 29 | b | 712 | CLA | C5-C6-C7-C8 |
| 34 | b | 734 | LMG | C11-C12-C13-C14 |
| 29 | N | 313 | CLA | CBA-CGA-O2A-C1 |
| 29 | b | 711 | CLA | O1D-CGD-O2D-CED |
| 29 | L | 316 | CLA | O1D-CGD-O2D-CED |
| 29 | A | 212 | CLA | O1A-CGA-O2A-C1 |
| 29 | D | 308 | CLA | O1A-CGA-O2A-C1 |
| 29 | a | 810 | CLA | C6-C7-C8-C9 |
| 29 | N | 309 | CLA | C16-C17-C18-C20 |
| 34 | K | 219 | LMG | C32-C33-C34-C35 |
| 29 | M | 310 | CLA | O2A-C1-C2-C3 |
| 29 | P | 212 | CLA | O1D-CGD-O2D-CED |
| 34 | K | 201 | LMG | C17-C18-C19-C20 |
| 35 | m | 102 | DGD | C6A-C7A-C8A-C9A |
| 37 | P | 206 | PID | C17-C18-C19-C20 |
| 35 | b | 733 | DGD | C1B-C2B-C3B-C4B |
| 34 | K | 220 | LMG | C14-C15-C16-C17 |
| 29 | a | 808 | CLA | O1A-CGA-O2A-C1 |
| 29 | b | 702 | CLA | C5-C6-C7-C8 |
| 29 | G | 314 | CLA | C4-C3-C5-C6 |
| 29 | a | 827 | CLA | CBA-CGA-O2A-C1 |
| 29 | b | 719 | CLA | CBA-CGA-O2A-C1 |
| 29 | B | 315 | CLA | O1A-CGA-O2A-C1 |
| 29 | G | 314 | CLA | C2-C3-C5-C6 |
| 34 | K | 220 | LMG | C11-C10-O7-C8 |
| 39 | C | 310 | KC1 | CAA-CBA-CGA-O1A |
| 29 | O | 314 | CLA | C2-C1-O2A-CGA |
| 37 | Q | 301 | PID | C26-C27-O6-C30 |
| 37 | Q | 301 | PID | C28-C27-O6-C30 |
| 29 | a | 803 | CLA | C2A-CAA-CBA-CGA |
| 29 | b | 711 | CLA | C2A-CAA-CBA-CGA |
| 34 | j | 102 | LMG | C31-C32-C33-C34 |
| 29 | J | 306 | CLA | O1A-CGA-O2A-C1 |
| 29 | G | 314 | CLA | C11-C12-C13-C14 |
| 29 | H | 308 | CLA | C16-C17-C18-C19 |
| 29 | M | 311 | CLA | O1A-CGA-O2A-C1 |
| 34 | b | 734 | LMG | C17-C18-C19-C20 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 34 | b | 730 | LMG | O9-C10-O7-C8 |
| 29 | a | 806 | CLA | C2-C1-O2A-CGA |
| 34 | b | 730 | LMG | C37-C38-C39-C40 |
| 29 | a | 812 | CLA | C8-C10-C11-C12 |
| 29 | G | 316 | CLA | C5-C6-C7-C8 |
| 34 | j | 102 | LMG | C34-C35-C36-C37 |
| 35 | G | 320 | DGD | C1A-C2A-C3A-C4A |
| 32 | a | 838 | BCR | C23-C24-C25-C26 |
| 32 | a | 838 | BCR | C23-C24-C25-C30 |
| 32 | b | 729 | BCR | C5-C6-C7-C8 |
| 32 | b | 735 | BCR | C1-C6-C7-C8 |
| 32 | b | 735 | BCR | C5-C6-C7-C8 |
| 32 | l | 506 | BCR | C5-C6-C7-C8 |
| 32 | l | 506 | BCR | C23-C24-C25-C26 |
| 32 | l | 506 | BCR | C23-C24-C25-C30 |
| 37 | N | 305 | PID | C16-C17-C18-C19 |
| 29 | a | 805 | CLA | CBA-CGA-O2A-C1 |
| 29 | l | 502 | CLA | CBA-CGA-O2A-C1 |
| 29 | J | 309 | CLA | C2C-C3C-CAC-CBC |
| 29 | L | 307 | CLA | O1A-CGA-O2A-C1 |
| 29 | a | 807 | CLA | C8-C10-C11-C12 |
| 29 | l | 503 | CLA | C5-C6-C7-C8 |
| 29 | I | 213 | CLA | C10-C11-C12-C13 |
| 29 | a | 809 | CLA | C4-C3-C5-C6 |
| 29 | G | 304 | CLA | C4-C3-C5-C6 |
| 29 | M | 314 | CLA | C4-C3-C5-C6 |
| 29 | a | 807 | CLA | C11-C12-C13-C15 |
| 29 | a | 807 | CLA | C12-C13-C15-C16 |
| 29 | a | 809 | CLA | C2-C3-C5-C6 |
| 29 | a | 812 | CLA | C11-C10-C8-C7 |
| 29 | a | 825 | CLA | C12-C13-C15-C16 |
| 29 | a | 829 | CLA | C12-C13-C15-C16 |
| 29 | b | 702 | CLA | C6-C7-C8-C10 |
| 29 | b | 709 | CLA | C11-C10-C8-C7 |
| 29 | i | 202 | CLA | C6-C7-C8-C10 |
| 29 | l | 503 | CLA | C6-C7-C8-C10 |
| 29 | l | 505 | CLA | C6-C7-C8-C10 |
| 29 | A | 209 | CLA | C11-C12-C13-C15 |
| 29 | G | 312 | CLA | C6-C7-C8-C10 |
| 29 | J | 306 | CLA | C12-C13-C15-C16 |
| 29 | B | 310 | CLA | C6-C7-C8-C10 |
| 29 | P | 210 | CLA | C12-C13-C15-C16 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | E | 311 | CLA | C11-C12-C13-C15 |
| 29 | L | 313 | CLA | C3-C5-C6-C7 |
| 29 | Q | 308 | CLA | C3-C5-C6-C7 |
| 29 | a | 821 | CLA | O1A-CGA-O2A-C1 |
| 29 | a | 827 | CLA | O1A-CGA-O2A-C1 |
| 29 | b | 711 | CLA | O1A-CGA-O2A-C1 |
| 29 | b | 719 | CLA | O1A-CGA-O2A-C1 |
| 29 | B | 308 | CLA | O1A-CGA-O2A-C1 |
| 29 | b | 709 | CLA | C8-C10-C11-C12 |
| 29 | A | 212 | CLA | C5-C6-C7-C8 |
| 29 | I | 217 | CLA | C5-C6-C7-C8 |
| 36 | D | 301 | DD6 | C24-C25-C26-C27 |
| 39 | C | 312 | KC1 | CBD-CGD-O2D-CED |
| 37 | N | 305 | PID | C28-C27-O6-C30 |
| 29 | K | 214 | CLA | O1D-CGD-O2D-CED |
| 29 | F | 316 | CLA | O1D-CGD-O2D-CED |
| 29 | O | 311 | CLA | O1D-CGD-O2D-CED |
| 29 | J | 307 | CLA | O1A-CGA-O2A-C1 |
| 29 | G | 302 | CLA | CBA-CGA-O2A-C1 |
| 29 | G | 312 | CLA | CBA-CGA-O2A-C1 |
| 29 | H | 313 | CLA | CBA-CGA-O2A-C1 |
| 31 | a | 833 | LHG | C24-C23-O8-C6 |
| 29 | b | 713 | CLA | C2A-CAA-CBA-CGA |
| 29 | G | 312 | CLA | C2A-CAA-CBA-CGA |
| 29 | J | 308 | CLA | C2A-CAA-CBA-CGA |
| 29 | L | 317 | CLA | C2A-CAA-CBA-CGA |
| 29 | B | 310 | CLA | C2A-CAA-CBA-CGA |
| 29 | P | 214 | CLA | C2A-CAA-CBA-CGA |
| 29 | b | 736 | CLA | C10-C11-C12-C13 |
| 35 | h | 203 | DGD | CAB-CBB-CCB-CDB |
| 34 | K | 219 | LMG | C30-C31-C32-C33 |
| 37 | F | 304 | PID | C16-C17-C18-C19 |
| 34 | j | 102 | LMG | C28-C29-C30-C31 |
| 29 | L | 311 | CLA | O1D-CGD-O2D-CED |
| 39 | N | 315 | KC1 | C2B-C3B-CAB-CBB |
| 39 | O | 310 | KC1 | C2B-C3B-CAB-CBB |
| 29 | i | 202 | CLA | C16-C17-C18-C20 |
| 29 | I | 210 | CLA | C6-C7-C8-C10 |
| 29 | E | 308 | CLA | C16-C17-C18-C19 |
| 29 | J | 306 | CLA | C13-C15-C16-C17 |
| 37 | G | 303 | PID | O7-C30-O6-C27 |
| 35 | G | 320 | DGD | C2B-C1B-O2G-C2G |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 39 | G | 315 | KC1 | C4B-C3B-CAB-CBB |
| 39 | G | 318 | KC1 | C4B-C3B-CAB-CBB |
| 39 | N | 310 | KC1 | C4B-C3B-CAB-CBB |
| 39 | O | 312 | KC1 | C4B-C3B-CAB-CBB |
| 39 | C | 310 | KC1 | C4B-C3B-CAB-CBB |
| 39 | C | 312 | KC1 | C4B-C3B-CAB-CBB |
| 39 | P | 213 | KC1 | C4B-C3B-CAB-CBB |
| 29 | G | 312 | CLA | C8-C10-C11-C12 |
| 35 | j | 106 | DGD | C3A-C4A-C5A-C6A |
| 34 | K | 201 | LMG | O9-C10-O7-C8 |
| 29 | E | 314 | CLA | O2A-C1-C2-C3 |
| 34 | K | 219 | LMG | O7-C8-C9-O8 |
| 29 | a | 810 | CLA | CBD-CGD-O2D-CED |
| 29 | l | 502 | CLA | C16-C17-C18-C19 |
| 34 | K | 201 | LMG | C33-C34-C35-C36 |
| 29 | b | 722 | CLA | C8-C10-C11-C12 |
| 29 | A | 218 | CLA | C5-C6-C7-C8 |
| 29 | I | 209 | CLA | C4-C3-C5-C6 |
| 29 | A | 210 | CLA | CBA-CGA-O2A-C1 |
| 29 | F | 307 | CLA | CBA-CGA-O2A-C1 |
| 34 | A | 219 | LMG | C28-C29-C30-C31 |
| 29 | a | 831 | CLA | C2-C3-C5-C6 |
| 36 | A | 204 | DD6 | C27-C29-C30-C31 |
| 36 | I | 204 | DD6 | C27-C29-C30-C31 |
| 36 | M | 304 | DD6 | C27-C29-C30-C31 |
| 36 | L | 301 | DD6 | C27-C29-C30-C31 |
| 36 | L | 305 | DD6 | C27-C29-C30-C31 |
| 36 | B | 305 | DD6 | C27-C29-C30-C31 |
| 36 | H | 303 | DD6 | C27-C29-C30-C31 |
| 36 | N | 303 | DD6 | C27-C29-C30-C31 |
| 36 | O | 303 | DD6 | C27-C29-C30-C31 |
| 36 | Q | 302 | DD6 | C27-C29-C30-C31 |
| 36 | P | 204 | DD6 | C27-C29-C30-C31 |
| 34 | b | 730 | LMG | C34-C35-C36-C37 |
| 29 | a | 802 | CLA | C11-C12-C13-C14 |
| 29 | a | 812 | CLA | C11-C10-C8-C9 |
| 29 | a | 825 | CLA | C14-C13-C15-C16 |
| 29 | b | 703 | CLA | C11-C10-C8-C9 |
| 29 | b | 712 | CLA | C14-C13-C15-C16 |
| 29 | b | 736 | CLA | C6-C7-C8-C9 |
| 29 | b | 736 | CLA | C11-C12-C13-C14 |
| 29 | A | 209 | CLA | C11-C12-C13-C14 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | G | 312 | CLA | C6-C7-C8-C9 |
| 29 | G | 316 | CLA | C14-C13-C15-C16 |
| 29 | J | 306 | CLA | C14-C13-C15-C16 |
| 29 | b | 726 | CLA | C3-C5-C6-C7 |
| 34 | P | 201 | LMG | O6-C5-C6-O5 |
| 36 | I | 204 | DD6 | C12-C11-C13-C14 |
| 36 | K | 203 | DD6 | C12-C11-C13-C14 |
| 36 | I | 204 | DD6 | C10-C11-C13-C14 |
| 36 | K | 203 | DD6 | C10-C11-C13-C14 |
| 29 | a | 805 | CLA | O1A-CGA-O2A-C1 |
| 29 | l | 502 | CLA | O1A-CGA-O2A-C1 |
| 29 | a | 806 | CLA | C1A-C2A-CAA-CBA |
| 29 | a | 818 | CLA | C1A-C2A-CAA-CBA |
| 29 | a | 820 | CLA | C1A-C2A-CAA-CBA |
| 29 | a | 821 | CLA | C1A-C2A-CAA-CBA |
| 29 | a | 828 | CLA | C1A-C2A-CAA-CBA |
| 29 | b | 712 | CLA | C1A-C2A-CAA-CBA |
| 29 | b | 713 | CLA | C1A-C2A-CAA-CBA |
| 29 | b | 720 | CLA | C1A-C2A-CAA-CBA |
| 29 | b | 721 | CLA | C1A-C2A-CAA-CBA |
| 29 | f | 803 | CLA | C1A-C2A-CAA-CBA |
| 29 | A | 212 | CLA | C1A-C2A-CAA-CBA |
| 29 | G | 316 | CLA | C1A-C2A-CAA-CBA |
| 29 | I | 217 | CLA | C1A-C2A-CAA-CBA |
| 29 | F | 308 | CLA | C1A-C2A-CAA-CBA |
| 29 | L | 316 | CLA | C1A-C2A-CAA-CBA |
| 29 | D | 314 | CLA | C1A-C2A-CAA-CBA |
| 29 | H | 313 | CLA | C1A-C2A-CAA-CBA |
| 29 | N | 314 | CLA | C1A-C2A-CAA-CBA |
| 29 | T | 309 | CLA | C1A-C2A-CAA-CBA |
| 29 | T | 314 | CLA | C1A-C2A-CAA-CBA |
| 29 | C | 314 | CLA | C1A-C2A-CAA-CBA |
| 29 | P | 215 | CLA | C1A-C2A-CAA-CBA |
| 29 | i | 202 | CLA | C16-C17-C18-C19 |
| 35 | j | 106 | DGD | C2B-C1B-O2G-C2G |
| 39 | H | 309 | KC1 | CAA-CBA-CGA-O1A |
| 39 | H | 311 | KC1 | CAA-CBA-CGA-O2A |
| 36 | O | 303 | DD6 | C3-C4-C5-C6 |
| 29 | a | 820 | CLA | C13-C15-C16-C17 |
| 29 | T | 316 | CLA | CBD-CGD-O2D-CED |
| 29 | L | 308 | CLA | C3-C5-C6-C7 |
| 31 | a | 833 | LHG | C2-C3-O3-P |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | G | 302 | CLA | O1A-CGA-O2A-C1 |
| 29 | Q | 310 | CLA | C10-C11-C12-C13 |
| 34 | E | 316 | LMG | C29-C30-C31-C32 |
| 29 | T | 311 | CLA | CBA-CGA-O2A-C1 |
| 29 | E | 308 | CLA | C16-C17-C18-C20 |
| 34 | b | 730 | LMG | C11-C12-C13-C14 |
| 29 | b | 723 | CLA | CBA-CGA-O2A-C1 |
| 29 | I | 212 | CLA | CBA-CGA-O2A-C1 |
| 29 | J | 308 | CLA | C5-C6-C7-C8 |
| 29 | P | 215 | CLA | C2-C1-O2A-CGA |
| 34 | b | 732 | LMG | C14-C15-C16-C17 |
| 34 | A | 219 | LMG | C31-C32-C33-C34 |
| 35 | b | 733 | DGD | C2B-C3B-C4B-C5B |
| 29 | H | 313 | CLA | O1A-CGA-O2A-C1 |
| 35 | h | 203 | DGD | C7B-C8B-C9B-CAB |
| 35 | h | 203 | DGD | C9B-CAB-CBB-CCB |
| 29 | J | 306 | CLA | C16-C17-C18-C20 |
| 29 | b | 718 | CLA | O1D-CGD-O2D-CED |
| 29 | M | 311 | CLA | O1D-CGD-O2D-CED |
| 39 | O | 315 | KC1 | O1D-CGD-O2D-CED |
| 35 | j | 103 | DGD | C4D-C5D-C6D-O5D |
| 34 | b | 734 | LMG | C7-C8-C9-O8 |
| 34 | K | 201 | LMG | C7-C8-C9-O8 |
| 34 | E | 316 | LMG | O1-C7-C8-C9 |
| 35 | j | 103 | DGD | C1G-C2G-C3G-O3G |
| 29 | G | 312 | CLA | O1A-CGA-O2A-C1 |
| 34 | K | 220 | LMG | O10-C28-O8-C9 |
| 40 | B | 317 | SQD | C45-C44-O6-C1 |
| 29 | A | 206 | CLA | O1D-CGD-O2D-CED |
| 29 | b | 703 | CLA | C8-C10-C11-C12 |
| 29 | b | 716 | CLA | C5-C6-C7-C8 |
| 34 | b | 732 | LMG | C38-C39-C40-C41 |
| 29 | l | 505 | CLA | CAA-CBA-CGA-O2A |
| 35 | b | 733 | DGD | C4B-C5B-C6B-C7B |
| 29 | a | 802 | CLA | C13-C15-C16-C17 |
| 40 | J | 314 | SQD | C8-C7-O47-C45 |
| 29 | l | 501 | CLA | C8-C10-C11-C12 |
| 29 | I | 209 | CLA | C8-C10-C11-C12 |
| 29 | O | 309 | CLA | C13-C15-C16-C17 |
| 29 | b | 701 | CLA | C4-C3-C5-C6 |
| 29 | A | 209 | CLA | C4-C3-C5-C6 |
| 29 | K | 211 | CLA | C4-C3-C5-C6 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 34 | K | 220 | LMG | C32-C33-C34-C35 |
| 35 | h | 203 | DGD | C8B-C9B-CAB-CBB |
| 29 | b | 701 | CLA | C2-C3-C5-C6 |
| 39 | N | 310 | KC1 | C2A-CAA-CBA-CGA |
| 29 | a | 837 | CLA | C6-C7-C8-C9 |
| 29 | C | 309 | CLA | C16-C17-C18-C19 |
| 29 | A | 207 | CLA | CBA-CGA-O2A-C1 |
| 29 | B | 312 | CLA | CBA-CGA-O2A-C1 |
| 29 | J | 309 | CLA | C4C-C3C-CAC-CBC |
| 29 | Q | 310 | CLA | C8-C10-C11-C12 |
| 30 | a | 832 | PQN | C23-C25-C26-C27 |
| 29 | G | 304 | CLA | C11-C12-C13-C14 |
| 34 | P | 201 | LMG | C9-C8-O7-C10 |
| 29 | J | 309 | CLA | C2A-CAA-CBA-CGA |
| 29 | a | 829 | CLA | C2-C1-O2A-CGA |
| 34 | j | 102 | LMG | C14-C15-C16-C17 |
| 34 | b | 734 | LMG | C29-C28-O8-C9 |
| 29 | E | 314 | CLA | O1D-CGD-O2D-CED |
| 29 | b | 702 | CLA | C16-C17-C18-C20 |
| 29 | i | 201 | CLA | C8-C10-C11-C12 |
| 34 | b | 730 | LMG | C32-C33-C34-C35 |
| 29 | l | 503 | CLA | C10-C11-C12-C13 |
| 37 | T | 317 | PID | C19-C20-C21-C22 |
| 40 | B | 317 | SQD | C2-C1-O6-C44 |
| 29 | a | 837 | CLA | C5-C6-C7-C8 |
| 34 | K | 219 | LMG | C28-C29-C30-C31 |
| 29 | a | 803 | CLA | C4-C3-C5-C6 |
| 34 | b | 732 | LMG | C37-C38-C39-C40 |
| 34 | j | 102 | LMG | C30-C31-C32-C33 |
| 29 | a | 802 | CLA | C11-C10-C8-C7 |
| 29 | a | 803 | CLA | C2-C3-C5-C6 |
| 29 | a | 829 | CLA | C6-C7-C8-C10 |
| 29 | a | 829 | CLA | C11-C10-C8-C7 |
| 29 | b | 706 | CLA | C12-C13-C15-C16 |
| 29 | b | 712 | CLA | C12-C13-C15-C16 |
| 29 | b | 736 | CLA | C11-C12-C13-C15 |
| 29 | i | 202 | CLA | C11-C10-C8-C7 |
| 29 | l | 504 | CLA | C6-C7-C8-C10 |
| 29 | A | 209 | CLA | C2-C3-C5-C6 |
| 29 | A | 209 | CLA | C12-C13-C15-C16 |
| 29 | G | 316 | CLA | C12-C13-C15-C16 |
| 29 | I | 211 | CLA | C6-C7-C8-C10 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | J | 308 | CLA | C6-C7-C8-C10 |
| 29 | B | 312 | CLA | C11-C10-C8-C7 |
| 29 | N | 309 | CLA | C11-C12-C13-C15 |
| 29 | E | 306 | CLA | C6-C7-C8-C10 |
| 29 | E | 308 | CLA | C11-C12-C13-C15 |
| 29 | E | 315 | CLA | C11-C10-C8-C7 |
| 30 | a | 832 | PQN | C22-C23-C25-C26 |
| 29 | I | 212 | CLA | O1A-CGA-O2A-C1 |
| 34 | j | 102 | LMG | C19-C20-C21-C22 |
| 29 | a | 802 | CLA | C11-C10-C8-C9 |
| 29 | a | 806 | CLA | C6-C7-C8-C9 |
| 29 | a | 827 | CLA | C6-C7-C8-C9 |
| 29 | a | 829 | CLA | C11-C10-C8-C9 |
| 29 | b | 705 | CLA | C11-C10-C8-C9 |
| 29 | b | 711 | CLA | C11-C10-C8-C9 |
| 29 | b | 718 | CLA | C11-C12-C13-C14 |
| 29 | A | 209 | CLA | C14-C13-C15-C16 |
| 29 | A | 218 | CLA | C11-C10-C8-C9 |
| 29 | B | 312 | CLA | C11-C10-C8-C9 |
| 29 | N | 309 | CLA | C11-C12-C13-C14 |
| 29 | Q | 308 | CLA | C11-C10-C8-C9 |
| 29 | E | 306 | CLA | C6-C7-C8-C9 |
| 29 | E | 308 | CLA | C11-C12-C13-C14 |
| 29 | E | 315 | CLA | C11-C10-C8-C9 |
| 30 | b | 727 | PQN | C21-C22-C23-C24 |
| 37 | D | 305 | PID | C17-C18-C19-C20 |
| 37 | P | 206 | PID | C15-C16-C17-C18 |
| 29 | a | 816 | CLA | C2A-CAA-CBA-CGA |
| 29 | b | 720 | CLA | C2A-CAA-CBA-CGA |
| 29 | I | 201 | CLA | C2A-CAA-CBA-CGA |
| 39 | L | 314 | KC1 | C2C-C3C-CAC-CBC |
| 29 | M | 309 | CLA | O1D-CGD-O2D-CED |
| 29 | b | 723 | CLA | O1A-CGA-O2A-C1 |
| 29 | b | 701 | CLA | CBD-CGD-O2D-CED |
| 29 | J | 308 | CLA | CBD-CGD-O2D-CED |
| 36 | K | 203 | DD6 | C7-C6-C8-C9 |
| 29 | J | 306 | CLA | C16-C17-C18-C19 |
| 29 | C | 309 | CLA | C16-C17-C18-C20 |
| 34 | b | 730 | LMG | C17-C18-C19-C20 |
| 39 | E | 312 | KC1 | C2C-C3C-CAC-CBC |
| 36 | I | 202 | DD6 | C2-C1-C24-C25 |
| 34 | j | 102 | LMG | C33-C34-C35-C36 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 35 | G | 320 | DGD | O1B-C1B-O2G-C2G |
| 34 | A | 219 | LMG | C34-C35-C36-C37 |
| 29 | L | 311 | CLA | O1A-CGA-O2A-C1 |
| 29 | a | 826 | CLA | C13-C15-C16-C17 |
| 39 | G | 318 | KC1 | CAA-CBA-CGA-O1A |
| 39 | O | 315 | KC1 | CAA-CBA-CGA-O1A |
| 34 | j | 102 | LMG | O7-C10-C11-C12 |
| 29 | A | 207 | CLA | O1A-CGA-O2A-C1 |
| 29 | A | 207 | CLA | CBD-CGD-O2D-CED |
| 34 | b | 732 | LMG | C36-C37-C38-C39 |
| 35 | b | 733 | DGD | CAB-CBB-CCB-CDB |
| 29 | A | 209 | CLA | C13-C15-C16-C17 |
| 29 | l | 505 | CLA | C4-C3-C5-C6 |
| 29 | K | 211 | CLA | C2-C3-C5-C6 |
| 35 | b | 733 | DGD | C7A-C8A-C9A-CAA |
| 35 | h | 203 | DGD | C2A-C3A-C4A-C5A |
| 29 | M | 307 | CLA | O1D-CGD-O2D-CED |
| 29 | b | 721 | CLA | C5-C6-C7-C8 |
| 39 | N | 315 | KC1 | CAA-CBA-CGA-O1A |
| 39 | O | 310 | KC1 | CAA-CBA-CGA-O1A |
| 29 | a | 837 | CLA | C6-C7-C8-C10 |
| 29 | M | 311 | CLA | C2A-CAA-CBA-CGA |
| 34 | K | 220 | LMG | C29-C28-O8-C9 |
| 29 | a | 824 | CLA | CBD-CGD-O2D-CED |
| 29 | J | 311 | CLA | O1D-CGD-O2D-CED |
| 29 | a | 807 | CLA | C3A-C2A-CAA-CBA |
| 29 | b | 721 | CLA | C3A-C2A-CAA-CBA |
| 29 | i | 203 | CLA | C3A-C2A-CAA-CBA |
| 29 | G | 302 | CLA | C3A-C2A-CAA-CBA |
| 29 | I | 212 | CLA | C3A-C2A-CAA-CBA |
| 29 | J | 310 | CLA | C3A-C2A-CAA-CBA |
| 29 | D | 311 | CLA | C3A-C2A-CAA-CBA |
| 29 | H | 310 | CLA | C3A-C2A-CAA-CBA |
| 29 | a | 825 | CLA | C15-C16-C17-C18 |
| 36 | G | 305 | DD6 | C11-C10-C9-C8 |
| 36 | G | 306 | DD6 | C11-C10-C9-C8 |
| 36 | D | 301 | DD6 | C11-C10-C9-C8 |
| 38 | N | 306 | UIX | C34-C37-C39-C40 |
| 29 | A | 218 | CLA | C8-C10-C11-C12 |
| 29 | B | 310 | CLA | C8-C10-C11-C12 |
| 39 | T | 315 | KC1 | CAA-CBA-CGA-O1A |
| 29 | a | 822 | CLA | CBA-CGA-O2A-C1 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 34 | b | 730 | LMG | O1-C7-C8-C9 |
| 34 | b | 730 | LMG | C7-C8-C9-O8 |
| 34 | K | 219 | LMG | C7-C8-C9-O8 |
| 35 | j | 106 | DGD | C1G-C2G-C3G-O3G |
| 35 | b | 733 | DGD | C4D-C5D-C6D-O5D |
| 29 | G | 302 | CLA | CAA-CBA-CGA-O2A |
| 29 | P | 210 | CLA | C3-C5-C6-C7 |
| 29 | a | 807 | CLA | C4-C3-C5-C6 |
| 29 | a | 812 | CLA | C4-C3-C5-C6 |
| 35 | B | 318 | DGD | C4D-C5D-C6D-O5D |
| 39 | Q | 314 | KC1 | CAA-CBA-CGA-O2A |
| 35 | B | 318 | DGD | C2B-C3B-C4B-C5B |
| 29 | K | 212 | CLA | O1D-CGD-O2D-CED |
| 34 | A | 219 | LMG | C4-C5-C6-O5 |
| 29 | K | 218 | CLA | C2A-CAA-CBA-CGA |
| 29 | O | 309 | CLA | C15-C16-C17-C18 |
| 29 | a | 812 | CLA | CBA-CGA-O2A-C1 |
| 29 | A | 211 | CLA | CBA-CGA-O2A-C1 |
| 29 | B | 312 | CLA | O1A-CGA-O2A-C1 |
| 31 | a | 833 | LHG | O10-C23-O8-C6 |
| 39 | F | 314 | KC1 | C3A-C2A-CAA-CBA |
| 39 | Q | 309 | KC1 | C3A-C2A-CAA-CBA |
| 34 | K | 201 | LMG | C18-C19-C20-C21 |
| 34 | b | 730 | LMG | O1-C7-C8-O7 |
| 34 | E | 316 | LMG | O1-C7-C8-O7 |
| 35 | j | 103 | DGD | O2G-C2G-C3G-O3G |
| 35 | j | 106 | DGD | O1G-C1G-C2G-O2G |
| 37 | P | 206 | PID | C14-C15-C16-C17 |
| 29 | b | 702 | CLA | C16-C17-C18-C19 |
| 29 | J | 306 | CLA | C15-C16-C17-C18 |
| 34 | K | 219 | LMG | C33-C34-C35-C36 |
| 39 | F | 309 | KC1 | CAA-CBA-CGA-O1A |
| 29 | a | 822 | CLA | C2-C1-O2A-CGA |
| 29 | b | 716 | CLA | C2-C1-O2A-CGA |
| 29 | b | 718 | CLA | C2-C1-O2A-CGA |
| 29 | I | 209 | CLA | C2-C1-O2A-CGA |
| 29 | M | 314 | CLA | C2-C1-O2A-CGA |
| 34 | P | 201 | LMG | O10-C28-O8-C9 |
| 29 | a | 809 | CLA | C14-C13-C15-C16 |
| 29 | b | 701 | CLA | C11-C10-C8-C9 |
| 29 | b | 701 | CLA | C11-C12-C13-C14 |
| 29 | b | 706 | CLA | C6-C7-C8-C9 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | b | 706 | CLA | C14-C13-C15-C16 |
| 29 | b | 718 | CLA | C11-C10-C8-C9 |
| 29 | i | 202 | CLA | C11-C10-C8-C9 |
| 29 | B | 308 | CLA | C6-C7-C8-C9 |
| 29 | B | 310 | CLA | C11-C10-C8-C9 |
| 29 | H | 308 | CLA | C11-C12-C13-C14 |
| 39 | O | 310 | KC1 | C1A-C2A-CAA-CBA |
| 39 | O | 312 | KC1 | C1A-C2A-CAA-CBA |
| 39 | Q | 314 | KC1 | C1A-C2A-CAA-CBA |
| 39 | E | 307 | KC1 | C1A-C2A-CAA-CBA |
| 29 | a | 812 | CLA | C2A-CAA-CBA-CGA |
| 29 | i | 201 | CLA | C2A-CAA-CBA-CGA |
| 29 | l | 503 | CLA | C2A-CAA-CBA-CGA |
| 32 | b | 729 | BCR | C23-C24-C25-C26 |
| 32 | b | 729 | BCR | C23-C24-C25-C30 |
| 32 | i | 204 | BCR | C5-C6-C7-C8 |
| 29 | b | 736 | CLA | C8-C10-C11-C12 |
| 34 | b | 732 | LMG | C17-C18-C19-C20 |
| 36 | T | 303 | DD6 | C-C1-C24-C25 |
| 32 | a | 838 | BCR | C21-C22-C23-C24 |
| 32 | b | 728 | BCR | C17-C18-C19-C20 |
| 32 | f | 801 | BCR | C7-C8-C9-C10 |
| 32 | l | 506 | BCR | C7-C8-C9-C10 |
| 36 | h | 202 | DD6 | C10-C11-C13-C14 |
| 35 | j | 106 | DGD | O1B-C1B-O2G-C2G |
| 37 | F | 304 | PID | C17-C18-C19-C20 |
| 34 | b | 732 | LMG | C13-C14-C15-C16 |
| 29 | I | 217 | CLA | C6-C7-C8-C9 |
| 39 | P | 216 | KC1 | CAA-CBA-CGA-O2A |
| 35 | m | 102 | DGD | CCA-CDA-CEA-CFA |
| 29 | b | 725 | CLA | CBD-CGD-O2D-CED |
| 29 | a | 802 | CLA | C12-C13-C15-C16 |
| 29 | a | 806 | CLA | C6-C7-C8-C10 |
| 29 | a | 807 | CLA | C11-C10-C8-C7 |
| 29 | a | 809 | CLA | C11-C10-C8-C7 |
| 29 | a | 809 | CLA | C12-C13-C15-C16 |
| 29 | a | 820 | CLA | C11-C10-C8-C7 |
| 29 | a | 822 | CLA | C11-C12-C13-C15 |
| 29 | a | 827 | CLA | C6-C7-C8-C10 |
| 29 | b | 701 | CLA | C11-C10-C8-C7 |
| 29 | b | 704 | CLA | C6-C7-C8-C10 |
| 29 | b | 705 | CLA | C11-C10-C8-C7 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | b | 711 | CLA | C11-C10-C8-C7 |
| 29 | b | 718 | CLA | C11-C12-C13-C15 |
| 29 | b | 720 | CLA | C11-C10-C8-C7 |
| 29 | A | 218 | CLA | C11-C10-C8-C7 |
| 29 | G | 312 | CLA | C11-C12-C13-C15 |
| 29 | B | 308 | CLA | C6-C7-C8-C10 |
| 29 | B | 310 | CLA | C11-C10-C8-C7 |
| 29 | H | 308 | CLA | C11-C12-C13-C15 |
| 29 | Q | 308 | CLA | C11-C10-C8-C7 |
| 29 | Q | 310 | CLA | C11-C10-C8-C7 |
| 29 | E | 306 | CLA | C11-C12-C13-C15 |
| 30 | b | 727 | PQN | C21-C22-C23-C25 |
| 36 | K | 202 | DD6 | C11-C10-C9-C8 |
| 36 | M | 303 | DD6 | C11-C10-C9-C8 |
| 29 | a | 810 | CLA | C2A-CAA-CBA-CGA |
| 29 | b | 714 | CLA | C8-C10-C11-C12 |
| 37 | D | 306 | PID | CM4-C14-C15-C16 |
| 37 | T | 317 | PID | C19-C20-C21-CM5 |
| 35 | B | 318 | DGD | O6D-C5D-C6D-O5D |
| 39 | C | 312 | KC1 | C2A-CAA-CBA-CGA |
| 29 | i | 201 | CLA | C13-C15-C16-C17 |
| 29 | G | 302 | CLA | C15-C16-C17-C18 |
| 29 | i | 203 | CLA | CBA-CGA-O2A-C1 |
| 35 | b | 733 | DGD | C8A-C9A-CAA-CBA |
| 29 | a | 822 | CLA | CAD-CBD-CGD-O2D |
| 29 | a | 827 | CLA | CAD-CBD-CGD-O2D |
| 29 | b | 720 | CLA | CAD-CBD-CGD-O2D |
| 29 | b | 721 | CLA | CAD-CBD-CGD-O2D |
| 29 | f | 805 | CLA | CAD-CBD-CGD-O2D |
| 29 | i | 201 | CLA | CAD-CBD-CGD-O2D |
| 29 | l | 505 | CLA | CAD-CBD-CGD-O2D |
| 29 | I | 201 | CLA | CAD-CBD-CGD-O2D |
| 29 | I | 209 | CLA | CAD-CBD-CGD-O2D |
| 29 | K | 211 | CLA | CAD-CBD-CGD-O2D |
| 29 | F | 311 | CLA | CAD-CBD-CGD-O2D |
| 29 | J | 307 | CLA | CAD-CBD-CGD-O2D |
| 29 | D | 313 | CLA | CAD-CBD-CGD-O2D |
| 29 | D | 314 | CLA | CAD-CBD-CGD-O2D |
| 29 | H | 313 | CLA | CAD-CBD-CGD-O2D |
| 29 | N | 309 | CLA | CAD-CBD-CGD-O2D |
| 29 | O | 313 | CLA | CAD-CBD-CGD-O2D |
| 29 | T | 309 | CLA | CAD-CBD-CGD-O2D |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | C | 313 | CLA | CAD-CBD-CGD-O2D |
| 35 | b | 733 | DGD | C3G-C2G-O2G-C1B |
| 37 | F | 304 | PID | CM5-C21-C22-C23 |
| 37 | P | 206 | PID | CM5-C21-C22-C23 |
| 37 | E | 301 | PID | CM5-C21-C22-C23 |
| 38 | N | 306 | UIX | C25-C28-C32-C33 |
| 38 | T | 306 | UIX | C25-C28-C32-C33 |
| 39 | F | 314 | KC1 | CAD-CBD-CGD-O2D |
| 39 | L | 306 | KC1 | CAD-CBD-CGD-O2D |
| 39 | H | 314 | KC1 | C2B-C3B-CAB-CBB |
| 39 | O | 315 | KC1 | C2B-C3B-CAB-CBB |
| 39 | T | 315 | KC1 | C2B-C3B-CAB-CBB |
| 39 | Q | 314 | KC1 | C2B-C3B-CAB-CBB |
| 39 | C | 315 | KC1 | C2B-C3B-CAB-CBB |
| 39 | P | 211 | KC1 | C2B-C3B-CAB-CBB |
| 29 | M | 307 | CLA | C3-C5-C6-C7 |
| 29 | a | 810 | CLA | O1D-CGD-O2D-CED |
| 29 | b | 712 | CLA | C4-C3-C5-C6 |
| 29 | L | 310 | CLA | C4-C3-C5-C6 |
| 29 | a | 812 | CLA | C11-C12-C13-C15 |
| 29 | L | 310 | CLA | C2-C3-C5-C6 |
| 35 | G | 320 | DGD | C1G-C2G-C3G-O3G |
| 37 | G | 303 | PID | C12-C13-C14-CM4 |
| 29 | a | 829 | CLA | C5-C6-C7-C8 |
| 29 | I | 207 | CLA | O2A-C1-C2-C3 |
| 29 | K | 207 | CLA | O2A-C1-C2-C3 |
| 39 | N | 315 | KC1 | C4B-C3B-CAB-CBB |
| 39 | O | 310 | KC1 | C4B-C3B-CAB-CBB |
| 29 | b | 725 | CLA | C16-C17-C18-C20 |
| 34 | j | 102 | LMG | C32-C33-C34-C35 |
| 29 | T | 316 | CLA | O1D-CGD-O2D-CED |
| 29 | a | 809 | CLA | CHA-CBD-CGD-O1D |
| 29 | a | 809 | CLA | CHA-CBD-CGD-O2D |
| 29 | a | 828 | CLA | CHA-CBD-CGD-O1D |
| 29 | b | 702 | CLA | CHA-CBD-CGD-O1D |
| 29 | b | 702 | CLA | CHA-CBD-CGD-O2D |
| 29 | b | 709 | CLA | CHA-CBD-CGD-O1D |
| 29 | b | 709 | CLA | CHA-CBD-CGD-O2D |
| 29 | b | 719 | CLA | CHA-CBD-CGD-O1D |
| 29 | b | 719 | CLA | CHA-CBD-CGD-O2D |
| 29 | l | 501 | CLA | CHA-CBD-CGD-O1D |
| 29 | l | 501 | CLA | CHA-CBD-CGD-O2D |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | l | 508 | CLA | CHA-CBD-CGD-O1D |
| 29 | l | 508 | CLA | CHA-CBD-CGD-O2D |
| 29 | l | 509 | CLA | CHA-CBD-CGD-O1D |
| 29 | l | 509 | CLA | CHA-CBD-CGD-O2D |
| 29 | A | 217 | CLA | CHA-CBD-CGD-O2D |
| 29 | G | 302 | CLA | CHA-CBD-CGD-O1D |
| 29 | G | 302 | CLA | CHA-CBD-CGD-O2D |
| 29 | I | 207 | CLA | CHA-CBD-CGD-O1D |
| 29 | I | 207 | CLA | CHA-CBD-CGD-O2D |
| 29 | J | 308 | CLA | CHA-CBD-CGD-O1D |
| 29 | J | 308 | CLA | CHA-CBD-CGD-O2D |
| 29 | D | 311 | CLA | CHA-CBD-CGD-O1D |
| 29 | D | 311 | CLA | CHA-CBD-CGD-O2D |
| 29 | N | 313 | CLA | CHA-CBD-CGD-O1D |
| 29 | N | 316 | CLA | CHA-CBD-CGD-O1D |
| 29 | O | 308 | CLA | CHA-CBD-CGD-O2D |
| 29 | O | 309 | CLA | CHA-CBD-CGD-O1D |
| 29 | O | 309 | CLA | CHA-CBD-CGD-O2D |
| 29 | T | 313 | CLA | CHA-CBD-CGD-O2D |
| 29 | Q | 313 | CLA | CHA-CBD-CGD-O1D |
| 29 | C | 309 | CLA | CHA-CBD-CGD-O2D |
| 29 | P | 212 | CLA | CHA-CBD-CGD-O1D |
| 29 | P | 212 | CLA | CHA-CBD-CGD-O2D |
| 29 | E | 305 | CLA | CHA-CBD-CGD-O1D |
| 39 | A | 205 | KC1 | CHA-CBD-CGD-O2D |
| 39 | K | 215 | KC1 | CHA-CBD-CGD-O1D |
| 39 | N | 312 | KC1 | CHA-CBD-CGD-O2D |
| 39 | T | 310 | KC1 | CHA-CBD-CGD-O1D |
| 39 | C | 312 | KC1 | CHA-CBD-CGD-O2D |
| 29 | K | 209 | CLA | C3-C5-C6-C7 |
| 34 | b | 732 | LMG | O7-C8-C9-O8 |
| 34 | K | 201 | LMG | O7-C8-C9-O8 |
| 35 | j | 106 | DGD | O2G-C2G-C3G-O3G |
| 29 | a | 822 | CLA | O1A-CGA-O2A-C1 |
| 29 | A | 211 | CLA | O1A-CGA-O2A-C1 |
| 29 | Q | 310 | CLA | C3-C5-C6-C7 |
| 29 | b | 702 | CLA | C4-C3-C5-C6 |
| 29 | I | 213 | CLA | C4-C3-C5-C6 |
| 29 | O | 309 | CLA | C4-C3-C5-C6 |
| 29 | M | 314 | CLA | C2-C3-C5-C6 |
| 36 | m | 101 | DD6 | C27-C29-C30-C31 |
| 36 | A | 201 | DD6 | C27-C29-C30-C31 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 36 | I | 202 | DD6 | C27-C29-C30-C31 |
| 36 | I | 206 | DD6 | C27-C29-C30-C31 |
| 36 | K | 203 | DD6 | C27-C29-C30-C31 |
| 36 | K | 204 | DD6 | C27-C29-C30-C31 |
| 36 | K | 205 | DD6 | C27-C29-C30-C31 |
| 36 | J | 301 | DD6 | C27-C29-C30-C31 |
| 36 | D | 301 | DD6 | C27-C29-C30-C31 |
| 36 | B | 301 | DD6 | C27-C29-C30-C31 |
| 36 | B | 302 | DD6 | C27-C29-C30-C31 |
| 36 | T | 303 | DD6 | C27-C29-C30-C31 |
| 34 | b | 734 | LMG | C16-C17-C18-C19 |
| 34 | K | 220 | LMG | O9-C10-O7-C8 |
| 29 | a | 802 | CLA | C14-C13-C15-C16 |
| 29 | a | 820 | CLA | C11-C10-C8-C9 |
| 29 | b | 707 | CLA | C6-C7-C8-C9 |
| 29 | i | 201 | CLA | C6-C7-C8-C9 |
| 29 | A | 209 | CLA | C11-C10-C8-C9 |
| 29 | G | 312 | CLA | C11-C12-C13-C14 |
| 29 | E | 306 | CLA | C11-C12-C13-C14 |
| 29 | E | 311 | CLA | C11-C10-C8-C9 |
| 29 | N | 313 | CLA | O1A-CGA-O2A-C1 |
| 29 | a | 831 | CLA | C5-C6-C7-C8 |
| 29 | b | 707 | CLA | C16-C17-C18-C20 |
| 29 | A | 209 | CLA | C16-C17-C18-C20 |
| 29 | K | 211 | CLA | C2A-CAA-CBA-CGA |
| 29 | D | 312 | CLA | C2A-CAA-CBA-CGA |
| 29 | a | 812 | CLA | O1A-CGA-O2A-C1 |
| 29 | i | 203 | CLA | O1A-CGA-O2A-C1 |
| 32 | a | 835 | BCR | C7-C8-C9-C34 |
| 32 | b | 728 | BCR | C7-C8-C9-C34 |
| 36 | K | 221 | DD6 | C12-C11-C13-C14 |
| 36 | T | 303 | DD6 | C12-C11-C13-C14 |
| 29 | G | 319 | CLA | CBD-CGD-O2D-CED |
| 36 | K | 221 | DD6 | C10-C11-C13-C14 |
| 36 | T | 303 | DD6 | C10-C11-C13-C14 |
| 29 | b | 731 | CLA | C3-C5-C6-C7 |
| 40 | B | 317 | SQD | C12-C13-C14-C15 |
| 29 | b | 711 | CLA | C1A-C2A-CAA-CBA |
| 29 | i | 203 | CLA | C1A-C2A-CAA-CBA |
| 29 | I | 214 | CLA | C1A-C2A-CAA-CBA |
| 29 | M | 311 | CLA | C1A-C2A-CAA-CBA |
| 29 | B | 312 | CLA | C1A-C2A-CAA-CBA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | G | 312 | CLA | C16-C17-C18-C20 |
| 36 | B | 319 | DD6 | C11-C10-C9-C8 |
| 37 | O | 305 | PID | C18-C19-C20-C21 |
| 29 | a | 807 | CLA | C2-C3-C5-C6 |
| 29 | G | 304 | CLA | C2-C3-C5-C6 |
| 29 | I | 209 | CLA | C2-C3-C5-C6 |
| 40 | J | 314 | SQD | C23-C24-C25-C26 |
| 40 | J | 314 | SQD | O5-C1-O6-C44 |
| 29 | a | 806 | CLA | C13-C15-C16-C17 |
| 35 | h | 203 | DGD | CBB-CCB-CDB-CEB |
| 29 | P | 212 | CLA | C2A-CAA-CBA-CGA |
| 29 | l | 502 | CLA | C3-C5-C6-C7 |
| 29 | A | 207 | CLA | O1D-CGD-O2D-CED |
| 29 | A | 212 | CLA | C6-C7-C8-C10 |
| 34 | K | 201 | LMG | C14-C15-C16-C17 |
| 29 | b | 703 | CLA | CAD-CBD-CGD-O1D |
| 29 | A | 209 | CLA | CAD-CBD-CGD-O1D |
| 29 | A | 214 | CLA | CAD-CBD-CGD-O1D |
| 29 | G | 311 | CLA | C2-C3-C5-C6 |
| 29 | G | 314 | CLA | CAD-CBD-CGD-O1D |
| 29 | K | 216 | CLA | CAD-CBD-CGD-O1D |
| 29 | D | 311 | CLA | CAD-CBD-CGD-O1D |
| 29 | D | 316 | CLA | CAD-CBD-CGD-O1D |
| 29 | B | 311 | CLA | C2-C3-C5-C6 |
| 29 | H | 315 | CLA | CAD-CBD-CGD-O1D |
| 29 | N | 316 | CLA | CAD-CBD-CGD-O1D |
| 29 | P | 212 | CLA | CAD-CBD-CGD-O1D |
| 38 | N | 306 | UIX | C25-C28-C32-C35 |
| 35 | G | 320 | DGD | O6D-C5D-C6D-O5D |
| 40 | J | 314 | SQD | O49-C7-O47-C45 |
| 29 | b | 723 | CLA | CBD-CGD-O2D-CED |
| 29 | b | 707 | CLA | C6-C7-C8-C10 |
| 29 | i | 201 | CLA | C6-C7-C8-C10 |
| 29 | l | 501 | CLA | C6-C7-C8-C10 |
| 29 | l | 502 | CLA | C12-C13-C15-C16 |
| 29 | A | 209 | CLA | C11-C10-C8-C7 |
| 29 | B | 312 | CLA | C12-C13-C15-C16 |
| 29 | E | 309 | CLA | C3A-C2A-CAA-CBA |
| 29 | E | 311 | CLA | C11-C10-C8-C7 |
| 34 | K | 220 | LMG | C10-C11-C12-C13 |
| 29 | b | 725 | CLA | O1D-CGD-O2D-CED |
| 29 | b | 701 | CLA | C2A-CAA-CBA-CGA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | N | 309 | CLA | C2A-CAA-CBA-CGA |
| 29 | T | 311 | CLA | C2A-CAA-CBA-CGA |
| 29 | E | 311 | CLA | C2A-CAA-CBA-CGA |
| 29 | I | 217 | CLA | C6-C7-C8-C10 |
| 34 | E | 316 | LMG | C31-C32-C33-C34 |
| 29 | J | 306 | CLA | C3-C5-C6-C7 |
| 29 | M | 315 | CLA | CAA-CBA-CGA-O2A |
| 34 | b | 732 | LMG | C7-C8-C9-O8 |
| 34 | j | 102 | LMG | C7-C8-C9-O8 |
| 35 | B | 318 | DGD | C1G-C2G-C3G-O3G |
| 37 | D | 307 | PID | O4-C12-C13-C14 |
| 37 | N | 301 | PID | O4-C12-C13-C14 |
| 37 | C | 301 | PID | O4-C12-C13-C14 |
| 37 | P | 205 | PID | O4-C12-C13-C14 |
| 29 | F | 307 | CLA | O1A-CGA-O2A-C1 |
| 34 | j | 102 | LMG | O7-C8-C9-O8 |
| 35 | G | 320 | DGD | O2G-C2G-C3G-O3G |
| 35 | B | 318 | DGD | O2G-C2G-C3G-O3G |
| 34 | b | 730 | LMG | C16-C17-C18-C19 |
| 35 | j | 106 | DGD | C2G-C3G-O3G-C1D |
| 29 | A | 210 | CLA | O1A-CGA-O2A-C1 |
| 29 | f | 805 | CLA | C5-C6-C7-C8 |
| 29 | D | 311 | CLA | CBA-CGA-O2A-C1 |
| 29 | J | 308 | CLA | O1D-CGD-O2D-CED |
| 29 | b | 736 | CLA | C4-C3-C5-C6 |
| 29 | a | 818 | CLA | CAA-CBA-CGA-O2A |
| 29 | K | 212 | CLA | CAA-CBA-CGA-O2A |
| 29 | a | 809 | CLA | C11-C10-C8-C9 |
| 29 | a | 822 | CLA | C11-C12-C13-C14 |
| 29 | a | 831 | CLA | C11-C12-C13-C14 |
| 29 | b | 714 | CLA | C11-C10-C8-C9 |
| 29 | b | 718 | CLA | C6-C7-C8-C9 |
| 29 | l | 505 | CLA | C11-C10-C8-C9 |
| 29 | G | 304 | CLA | C11-C10-C8-C9 |
| 29 | Q | 310 | CLA | C11-C10-C8-C9 |
| 29 | E | 305 | CLA | C6-C7-C8-C9 |
| 29 | A | 209 | CLA | C16-C17-C18-C19 |
| 29 | b | 701 | CLA | O1D-CGD-O2D-CED |
| 37 | E | 301 | PID | C7-C8-C9-C11 |
| 29 | b | 707 | CLA | C16-C17-C18-C19 |
| 29 | T | 311 | CLA | O1A-CGA-O2A-C1 |
| 29 | a | 824 | CLA | O1D-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 39 | G | 315 | KC1 | CAA-CBA-CGA-O2A |
| 31 | a | 833 | LHG | C14-C15-C16-C17 |
| 29 | a | 801 | CLA | C16-C17-C18-C19 |
| 29 | G | 301 | CLA | C1-C2-C3-C4 |
| 29 | a | 818 | CLA | C2A-CAA-CBA-CGA |
| 29 | b | 703 | CLA | C2A-CAA-CBA-CGA |
| 29 | j | 104 | CLA | C2A-CAA-CBA-CGA |
| 29 | A | 209 | CLA | C2A-CAA-CBA-CGA |
| 29 | L | 310 | CLA | C2A-CAA-CBA-CGA |
| 29 | Q | 310 | CLA | CBA-CGA-O2A-C1 |
| 29 | a | 823 | CLA | C2-C1-O2A-CGA |
| 29 | a | 826 | CLA | C2-C1-O2A-CGA |
| 29 | i | 203 | CLA | C2-C1-O2A-CGA |
| 29 | K | 210 | CLA | C2-C1-O2A-CGA |
| 29 | Q | 310 | CLA | O1A-CGA-O2A-C1 |
| 34 | K | 219 | LMG | C34-C35-C36-C37 |
| 29 | B | 314 | CLA | CBD-CGD-O2D-CED |
| 29 | A | 211 | CLA | C5-C6-C7-C8 |
| 32 | i | 204 | BCR | C1-C6-C7-C8 |
| 32 | m | 103 | BCR | C23-C24-C25-C26 |
| 29 | i | 203 | CLA | CAA-CBA-CGA-O2A |
| 35 | h | 203 | DGD | C4B-C5B-C6B-C7B |
| 35 | G | 320 | DGD | C4D-C5D-C6D-O5D |
| 29 | N | 311 | CLA | C2A-CAA-CBA-CGA |
| 31 | a | 833 | LHG | C3-O3-P-O6 |
| 35 | B | 318 | DGD | C1A-C2A-C3A-C4A |
| 29 | f | 805 | CLA | C11-C12-C13-C15 |
| 29 | b | 723 | CLA | O1D-CGD-O2D-CED |
| 29 | b | 720 | CLA | C4-C3-C5-C6 |
| 35 | b | 733 | DGD | C8B-C9B-CAB-CBB |
| 29 | b | 720 | CLA | C2-C3-C5-C6 |
| 29 | A | 218 | CLA | C6-C7-C8-C10 |
| 29 | Q | 308 | CLA | C11-C12-C13-C15 |
| 29 | E | 305 | CLA | C6-C7-C8-C10 |
| 34 | E | 316 | LMG | C30-C31-C32-C33 |
| 29 | a | 825 | CLA | C6-C7-C8-C9 |
| 29 | b | 725 | CLA | C6-C7-C8-C9 |
| 29 | l | 501 | CLA | C6-C7-C8-C9 |
| 29 | J | 308 | CLA | C6-C7-C8-C9 |
| 29 | E | 308 | CLA | C11-C10-C8-C9 |
| 36 | I | 205 | DD6 | C11-C10-C9-C8 |
| 29 | b | 726 | CLA | C16-C17-C18-C20 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | i | 202 | CLA | C2A-CAA-CBA-CGA |
| 34 | b | 732 | LMG | C35-C36-C37-C38 |
| 29 | G | 311 | CLA | O1A-CGA-O2A-C1 |
| 34 | A | 219 | LMG | C33-C34-C35-C36 |
| 29 | b | 716 | CLA | CBA-CGA-O2A-C1 |
| 29 | a | 825 | CLA | C5-C6-C7-C8 |
| 29 | G | 319 | CLA | O1D-CGD-O2D-CED |
| 29 | b | 704 | CLA | CAA-CBA-CGA-O2A |
| 29 | l | 505 | CLA | C2-C3-C5-C6 |
| 29 | a | 825 | CLA | CBA-CGA-O2A-C1 |
| 29 | G | 301 | CLA | CBA-CGA-O2A-C1 |
| 29 | G | 311 | CLA | CBA-CGA-O2A-C1 |
| 29 | K | 213 | CLA | CBA-CGA-O2A-C1 |
| 29 | b | 716 | CLA | O1A-CGA-O2A-C1 |
| 39 | I | 215 | KC1 | CAA-CBA-CGA-O1A |
| 29 | i | 202 | CLA | C15-C16-C17-C18 |
| 32 | l | 507 | BCR | C9-C10-C11-C12 |
| 36 | B | 301 | DD6 | C24-C25-C26-C27 |
| 36 | E | 303 | DD6 | C24-C25-C26-C27 |
| 38 | N | 306 | UIX | C26-C30-C34-C37 |
| 29 | K | 213 | CLA | O1A-CGA-O2A-C1 |
| 29 | M | 308 | CLA | CBA-CGA-O2A-C1 |
| 31 | a | 833 | LHG | C9-C10-C11-C12 |
| 29 | I | 213 | CLA | C16-C17-C18-C20 |
| 39 | H | 314 | KC1 | C4B-C3B-CAB-CBB |
| 39 | P | 211 | KC1 | C4B-C3B-CAB-CBB |
| 29 | l | 504 | CLA | C4-C3-C5-C6 |
| 29 | G | 317 | CLA | C4-C3-C5-C6 |
| 29 | M | 307 | CLA | C4-C3-C5-C6 |
| 29 | b | 709 | CLA | C2-C3-C5-C6 |
| 29 | a | 825 | CLA | O1A-CGA-O2A-C1 |
| 34 | K | 220 | LMG | C31-C32-C33-C34 |
| 29 | b | 705 | CLA | C2-C1-O2A-CGA |
| 29 | j | 104 | CLA | C2-C1-O2A-CGA |
| 29 | B | 308 | CLA | C2-C1-O2A-CGA |
| 29 | B | 310 | CLA | C2-C1-O2A-CGA |
| 29 | a | 801 | CLA | C5-C6-C7-C8 |
| 29 | f | 805 | CLA | C2A-CAA-CBA-CGA |
| 29 | A | 207 | CLA | C2A-CAA-CBA-CGA |
| 29 | I | 208 | CLA | C2A-CAA-CBA-CGA |
| 29 | H | 308 | CLA | C2A-CAA-CBA-CGA |
| 29 | H | 310 | CLA | C2A-CAA-CBA-CGA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 34 | K | 220 | LMG | O1-C7-C8-O7 |
| 35 | b | 733 | DGD | O2G-C2G-C3G-O3G |
| 35 | B | 318 | DGD | C2A-C3A-C4A-C5A |
| 37 | T | 317 | PID | C28-C27-O6-C30 |
| 35 | m | 102 | DGD | CAA-CBA-CCA-CDA |
| 29 | b | 708 | CLA | C3A-C2A-CAA-CBA |
| 29 | l | 510 | CLA | C3A-C2A-CAA-CBA |
| 29 | M | 309 | CLA | C3A-C2A-CAA-CBA |
| 29 | O | 313 | CLA | C3A-C2A-CAA-CBA |
| 29 | B | 306 | CLA | O2A-C1-C2-C3 |
| 32 | f | 801 | BCR | C15-C16-C17-C18 |
| 29 | a | 810 | CLA | C5-C6-C7-C8 |
| 29 | l | 510 | CLA | CAA-CBA-CGA-O1A |
| 29 | b | 709 | CLA | C4-C3-C5-C6 |
| 29 | L | 316 | CLA | C2C-C3C-CAC-CBC |
| 29 | a | 803 | CLA | C6-C7-C8-C9 |
| 29 | b | 701 | CLA | C14-C13-C15-C16 |
| 29 | b | 725 | CLA | C11-C12-C13-C14 |
| 29 | b | 736 | CLA | C11-C10-C8-C9 |
| 29 | C | 309 | CLA | C6-C7-C8-C9 |
| 29 | E | 306 | CLA | C14-C13-C15-C16 |
| 30 | a | 832 | PQN | C19-C18-C20-C21 |
| 29 | b | 704 | CLA | C16-C17-C18-C19 |
| 35 | m | 102 | DGD | C5B-C6B-C7B-C8B |
| 32 | b | 735 | BCR | C20-C21-C22-C37 |
| 32 | f | 801 | BCR | C16-C17-C18-C36 |
| 32 | f | 804 | BCR | C35-C13-C14-C15 |
| 35 | j | 106 | DGD | O1G-C1G-C2G-C3G |
| 29 | D | 311 | CLA | C2A-CAA-CBA-CGA |
| 29 | M | 308 | CLA | O1A-CGA-O2A-C1 |
| 31 | a | 833 | LHG | C11-C10-C9-C8 |
| 29 | a | 801 | CLA | C16-C17-C18-C20 |
| 29 | b | 736 | CLA | O2A-C1-C2-C3 |
| 32 | b | 729 | BCR | C37-C22-C23-C24 |
| 38 | A | 203 | UIX | C14-C23-C26-C29 |
| 34 | b | 732 | LMG | C16-C17-C18-C19 |
| 34 | A | 219 | LMG | C7-C8-O7-C10 |
| 29 | a | 808 | CLA | C1A-C2A-CAA-CBA |
| 29 | a | 816 | CLA | C1A-C2A-CAA-CBA |
| 29 | b | 708 | CLA | C1A-C2A-CAA-CBA |
| 29 | b | 709 | CLA | C1A-C2A-CAA-CBA |
| 29 | G | 317 | CLA | C1A-C2A-CAA-CBA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | K | 214 | CLA | C1A-C2A-CAA-CBA |
| 29 | D | 311 | CLA | C1A-C2A-CAA-CBA |
| 29 | O | 313 | CLA | C1A-C2A-CAA-CBA |
| 29 | a | 802 | CLA | C11-C12-C13-C15 |
| 29 | a | 811 | CLA | C6-C7-C8-C10 |
| 29 | G | 302 | CLA | C12-C13-C15-C16 |
| 29 | B | 310 | CLA | C12-C13-C15-C16 |
| 29 | Q | 308 | CLA | C6-C7-C8-C10 |
| 29 | Q | 308 | CLA | C12-C13-C15-C16 |
| 29 | H | 308 | CLA | C15-C16-C17-C18 |
| 32 | l | 506 | BCR | C13-C14-C15-C16 |
| 29 | G | 301 | CLA | O1A-CGA-O2A-C1 |
| 29 | a | 829 | CLA | C2A-CAA-CBA-CGA |
| 29 | G | 314 | CLA | C2A-CAA-CBA-CGA |
| 29 | J | 311 | CLA | C2A-CAA-CBA-CGA |
| 29 | L | 313 | CLA | C2A-CAA-CBA-CGA |
| 29 | T | 313 | CLA | C2A-CAA-CBA-CGA |
| 29 | T | 314 | CLA | C2A-CAA-CBA-CGA |
| 29 | C | 309 | CLA | C2A-CAA-CBA-CGA |
| 35 | j | 106 | DGD | O6D-C5D-C6D-O5D |
| 34 | b | 734 | LMG | C31-C32-C33-C34 |
| 34 | h | 205 | LMG | C11-C12-C13-C14 |
| 39 | G | 315 | KC1 | C3A-C2A-CAA-CBA |
| 39 | H | 309 | KC1 | C3A-C2A-CAA-CBA |
| 39 | T | 312 | KC1 | C3A-C2A-CAA-CBA |
| 39 | E | 312 | KC1 | C3A-C2A-CAA-CBA |
| 29 | l | 510 | CLA | CAA-CBA-CGA-O2A |
| 29 | N | 314 | CLA | C2-C1-O2A-CGA |
| 29 | l | 503 | CLA | C4-C3-C5-C6 |
| 29 | I | 212 | CLA | C4-C3-C5-C6 |
| 29 | Q | 308 | CLA | C10-C11-C12-C13 |
| 34 | b | 734 | LMG | C12-C13-C14-C15 |
| 29 | a | 830 | CLA | C3-C5-C6-C7 |
| 32 | b | 735 | BCR | C20-C21-C22-C23 |
| 32 | f | 801 | BCR | C16-C17-C18-C19 |
| 32 | f | 804 | BCR | C12-C13-C14-C15 |
| 36 | K | 202 | DD6 | C24-C25-C26-C27 |
| 36 | P | 204 | DD6 | C24-C25-C26-C27 |
| 29 | B | 314 | CLA | O1D-CGD-O2D-CED |
| 29 | a | 806 | CLA | C5-C6-C7-C8 |
| 29 | a | 827 | CLA | C13-C15-C16-C17 |
| 39 | C | 315 | KC1 | CAA-CBA-CGA-O1A |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | b | 714 | CLA | C2-C1-O2A-CGA |
| 29 | a | 822 | CLA | C14-C13-C15-C16 |
| 29 | l | 505 | CLA | CAA-CBA-CGA-O1A |
| 29 | G | 311 | CLA | C4-C3-C5-C6 |
| 29 | B | 311 | CLA | C4-C3-C5-C6 |
| 39 | A | 213 | KC1 | C1A-C2A-CAA-CBA |
| 39 | F | 309 | KC1 | C1A-C2A-CAA-CBA |
| 39 | J | 312 | KC1 | C1A-C2A-CAA-CBA |
| 39 | M | 305 | KC1 | C1A-C2A-CAA-CBA |
| 39 | B | 313 | KC1 | C1A-C2A-CAA-CBA |
| 39 | H | 311 | KC1 | C1A-C2A-CAA-CBA |
| 39 | Q | 311 | KC1 | C1A-C2A-CAA-CBA |
| 39 | C | 315 | KC1 | C1A-C2A-CAA-CBA |
| 39 | P | 216 | KC1 | C1A-C2A-CAA-CBA |
| 29 | i | 203 | CLA | C2A-CAA-CBA-CGA |
| 29 | I | 214 | CLA | C2A-CAA-CBA-CGA |
| 29 | L | 316 | CLA | C2A-CAA-CBA-CGA |
| 29 | I | 214 | CLA | C6-C7-C8-C9 |
| 32 | b | 728 | BCR | C1-C6-C7-C8 |
| 34 | j | 102 | LMG | O1-C7-C8-C9 |
| 36 | D | 304 | DD6 | C24-C25-C26-C27 |
| 38 | T | 306 | UIX | C34-C37-C39-C40 |
| 29 | I | 217 | CLA | C4-C3-C5-C6 |
| 29 | K | 212 | CLA | C4-C3-C5-C6 |
| 29 | B | 308 | CLA | C4-C3-C5-C6 |
| 32 | a | 835 | BCR | C7-C8-C9-C10 |
| 36 | K | 203 | DD6 | C5-C6-C8-C9 |
| 36 | T | 303 | DD6 | C2-C1-C24-C25 |
| 34 | b | 732 | LMG | C4-C5-C6-O5 |
| 35 | B | 318 | DGD | C5D-C6D-O5D-C1E |
| 29 | L | 316 | CLA | C4C-C3C-CAC-CBC |
| 29 | I | 213 | CLA | C16-C17-C18-C19 |
| 29 | B | 308 | CLA | C3-C5-C6-C7 |
| 29 | G | 311 | CLA | C2A-CAA-CBA-CGA |
| 29 | I | 207 | CLA | C2A-CAA-CBA-CGA |
| 29 | K | 207 | CLA | C2A-CAA-CBA-CGA |
| 29 | H | 312 | CLA | C2A-CAA-CBA-CGA |
| 29 | O | 314 | CLA | C2A-CAA-CBA-CGA |
| 29 | a | 801 | CLA | CAA-CBA-CGA-O2A |
| 29 | a | 825 | CLA | C3-C5-C6-C7 |
| 29 | b | 702 | CLA | C3-C5-C6-C7 |
| 29 | O | 308 | CLA | O1D-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 34 | b | 734 | LMG | C30-C31-C32-C33 |
| 29 | N | 309 | CLA | C10-C11-C12-C13 |
| 29 | a | 801 | CLA | C6-C7-C8-C10 |
| 29 | a | 812 | CLA | C2-C3-C5-C6 |
| 29 | b | 703 | CLA | C6-C7-C8-C10 |
| 29 | f | 803 | CLA | CBD-CGD-O2D-CED |
| 36 | B | 319 | DD6 | C24-C25-C26-C27 |
| 37 | N | 305 | PID | C18-C19-C20-C21 |
| 29 | L | 309 | CLA | CAA-CBA-CGA-O2A |
| 39 | N | 310 | KC1 | CAA-CBA-CGA-O2A |
| 39 | P | 211 | KC1 | CAA-CBA-CGA-O2A |
| 29 | a | 821 | CLA | CAA-CBA-CGA-O2A |
| 29 | b | 706 | CLA | C2A-CAA-CBA-CGA |
| 29 | a | 809 | CLA | C10-C11-C12-C13 |
| 29 | N | 309 | CLA | C15-C16-C17-C18 |
| 37 | D | 307 | PID | C19-C20-C21-CM5 |
| 37 | C | 305 | PID | C19-C20-C21-CM5 |
| 29 | b | 703 | CLA | CAA-CBA-CGA-O2A |
| 35 | j | 106 | DGD | O1G-C1A-C2A-C3A |
| 29 | B | 308 | CLA | CBD-CGD-O2D-CED |
| 29 | a | 806 | CLA | C4-C3-C5-C6 |
| 29 | M | 306 | CLA | C4-C3-C5-C6 |
| 29 | B | 309 | CLA | C4-C3-C5-C6 |
| 29 | E | 311 | CLA | C4-C3-C5-C6 |
| 30 | b | 727 | PQN | C14-C13-C15-C16 |
| 29 | b | 702 | CLA | C2-C3-C5-C6 |
| 29 | l | 503 | CLA | C2-C3-C5-C6 |
| 29 | O | 309 | CLA | C2-C3-C5-C6 |
| 29 | f | 803 | CLA | O1D-CGD-O2D-CED |
| 39 | Q | 314 | KC1 | C2A-CAA-CBA-CGA |
| 29 | A | 208 | CLA | CAA-CBA-CGA-O2A |
| 29 | b | 720 | CLA | C11-C10-C8-C9 |
| 29 | b | 726 | CLA | C11-C10-C8-C9 |
| 29 | l | 502 | CLA | C14-C13-C15-C16 |
| 29 | l | 503 | CLA | C11-C10-C8-C9 |
| 29 | I | 213 | CLA | C6-C7-C8-C9 |
| 29 | B | 308 | CLA | C14-C13-C15-C16 |
| 29 | B | 310 | CLA | C14-C13-C15-C16 |
| 29 | B | 312 | CLA | C6-C7-C8-C9 |
| 29 | B | 312 | CLA | C14-C13-C15-C16 |
| 29 | N | 309 | CLA | C14-C13-C15-C16 |
| 29 | C | 309 | CLA | C11-C10-C8-C9 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 30 | a | 832 | PQN | C24-C23-C25-C26 |
| 29 | f | 805 | CLA | C3A-C2A-CAA-CBA |
| 29 | I | 209 | CLA | CAA-CBA-CGA-O2A |
| 29 | B | 316 | CLA | CAA-CBA-CGA-O2A |
| 29 | a | 808 | CLA | CAD-CBD-CGD-O2D |
| 29 | a | 821 | CLA | CAD-CBD-CGD-O2D |
| 29 | a | 826 | CLA | CAD-CBD-CGD-O2D |
| 29 | a | 831 | CLA | CAD-CBD-CGD-O2D |
| 29 | b | 705 | CLA | CAD-CBD-CGD-O2D |
| 29 | b | 718 | CLA | CAD-CBD-CGD-O2D |
| 29 | h | 201 | CLA | CAD-CBD-CGD-O2D |
| 29 | A | 206 | CLA | CAD-CBD-CGD-O2D |
| 29 | A | 208 | CLA | CAD-CBD-CGD-O2D |
| 29 | G | 301 | CLA | CAD-CBD-CGD-O2D |
| 29 | I | 213 | CLA | CAD-CBD-CGD-O2D |
| 29 | I | 214 | CLA | CAD-CBD-CGD-O2D |
| 29 | F | 315 | CLA | CAD-CBD-CGD-O2D |
| 29 | M | 307 | CLA | CAD-CBD-CGD-O2D |
| 29 | L | 308 | CLA | CAD-CBD-CGD-O2D |
| 29 | B | 310 | CLA | CAD-CBD-CGD-O2D |
| 29 | H | 312 | CLA | CAD-CBD-CGD-O2D |
| 29 | N | 311 | CLA | CAD-CBD-CGD-O2D |
| 29 | Q | 313 | CLA | CAD-CBD-CGD-O2D |
| 38 | P | 207 | UIX | C25-C28-C32-C33 |
| 39 | G | 315 | KC1 | CAD-CBD-CGD-O2D |
| 39 | O | 312 | KC1 | CAD-CBD-CGD-O2D |
| 39 | O | 315 | KC1 | CAD-CBD-CGD-O2D |
| 39 | T | 312 | KC1 | CAD-CBD-CGD-O2D |
| 39 | P | 216 | KC1 | C2B-C3B-CAB-CBB |
| 29 | K | 209 | CLA | C6-C7-C8-C9 |
| 30 | a | 832 | PQN | C15-C16-C17-C18 |
| 29 | b | 721 | CLA | C2-C1-O2A-CGA |
| 29 | D | 313 | CLA | C4C-C3C-CAC-CBC |
| 29 | b | 720 | CLA | CAA-CBA-CGA-O2A |
| 29 | L | 316 | CLA | CAA-CBA-CGA-O2A |
| 35 | m | 102 | DGD | C2B-C3B-C4B-C5B |
| 29 | a | 810 | CLA | C4-C3-C5-C6 |
| 29 | E | 311 | CLA | C2-C3-C5-C6 |
| 29 | b | 710 | CLA | CAA-CBA-CGA-O2A |
| 29 | G | 313 | CLA | CAA-CBA-CGA-O2A |
| 29 | K | 210 | CLA | CAA-CBA-CGA-O2A |
| 29 | K | 217 | CLA | CAA-CBA-CGA-O2A |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | F | 311 | CLA | CAA-CBA-CGA-O2A |
| 35 | j | 103 | DGD | O1G-C1A-C2A-C3A |
| 32 | l | 507 | BCR | C11-C12-C13-C14 |
| 38 | A | 203 | UIX | C14-C23-C26-C30 |
| 36 | A | 204 | DD6 | C13-C14-C15-O1 |
| 36 | G | 308 | DD6 | C13-C14-C15-O1 |
| 36 | I | 205 | DD6 | C13-C14-C15-O1 |
| 36 | K | 204 | DD6 | C13-C14-C15-O1 |
| 36 | K | 206 | DD6 | C13-C14-C15-O1 |
| 36 | M | 303 | DD6 | C13-C14-C15-O1 |
| 36 | D | 304 | DD6 | C13-C14-C15-O1 |
| 36 | B | 302 | DD6 | C13-C14-C15-O1 |
| 36 | B | 305 | DD6 | C13-C14-C15-O1 |
| 36 | B | 319 | DD6 | C13-C14-C15-O1 |
| 37 | D | 302 | PID | O1-C6-C7-C8 |
| 37 | O | 307 | PID | O1-C6-C7-C8 |
| 37 | C | 301 | PID | O1-C6-C7-C8 |
| 37 | P | 203 | PID | O1-C6-C7-C8 |
| 29 | a | 817 | CLA | CAA-CBA-CGA-O2A |
| 29 | a | 809 | CLA | C13-C15-C16-C17 |
| 35 | b | 733 | DGD | O2G-C1B-C2B-C3B |
| 29 | O | 309 | CLA | C16-C17-C18-C20 |
| 29 | a | 817 | CLA | CAA-CBA-CGA-O1A |
| 29 | l | 502 | CLA | C15-C16-C17-C18 |
| 29 | E | 308 | CLA | C10-C11-C12-C13 |
| 29 | a | 837 | CLA | O2A-C1-C2-C3 |
| 29 | b | 712 | CLA | O2A-C1-C2-C3 |
| 29 | b | 720 | CLA | O2A-C1-C2-C3 |
| 29 | b | 726 | CLA | O2A-C1-C2-C3 |
| 29 | G | 302 | CLA | O2A-C1-C2-C3 |
| 29 | G | 312 | CLA | O2A-C1-C2-C3 |
| 29 | K | 210 | CLA | O2A-C1-C2-C3 |
| 29 | B | 310 | CLA | O2A-C1-C2-C3 |
| 29 | E | 306 | CLA | O2A-C1-C2-C3 |
| 39 | O | 315 | KC1 | C4B-C3B-CAB-CBB |
| 39 | T | 315 | KC1 | C4B-C3B-CAB-CBB |
| 39 | Q | 314 | KC1 | C4B-C3B-CAB-CBB |
| 39 | C | 315 | KC1 | C4B-C3B-CAB-CBB |
| 39 | P | 216 | KC1 | C4B-C3B-CAB-CBB |
| 29 | Q | 310 | CLA | C2A-CAA-CBA-CGA |
| 29 | h | 201 | CLA | C8-C10-C11-C12 |
| 29 | P | 210 | CLA | C15-C16-C17-C18 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | G | 302 | CLA | CAA-CBA-CGA-O1A |
| 29 | b | 717 | CLA | O1A-CGA-O2A-C1 |
| 29 | I | 214 | CLA | C6-C7-C8-C10 |
| 29 | a | 814 | CLA | CHA-CBD-CGD-O1D |
| 29 | a | 815 | CLA | CHA-CBD-CGD-O1D |
| 29 | a | 815 | CLA | CHA-CBD-CGD-O2D |
| 29 | a | 823 | CLA | CHA-CBD-CGD-O1D |
| 29 | a | 823 | CLA | CHA-CBD-CGD-O2D |
| 29 | a | 828 | CLA | CHA-CBD-CGD-O2D |
| 29 | a | 831 | CLA | CHA-CBD-CGD-O1D |
| 29 | a | 837 | CLA | CHA-CBD-CGD-O1D |
| 29 | a | 837 | CLA | CHA-CBD-CGD-O2D |
| 29 | b | 701 | CLA | CHA-CBD-CGD-O1D |
| 29 | b | 701 | CLA | CHA-CBD-CGD-O2D |
| 29 | b | 710 | CLA | CHA-CBD-CGD-O1D |
| 29 | A | 218 | CLA | CHA-CBD-CGD-O1D |
| 29 | A | 218 | CLA | CHA-CBD-CGD-O2D |
| 29 | G | 316 | CLA | CHA-CBD-CGD-O2D |
| 29 | G | 317 | CLA | CHA-CBD-CGD-O1D |
| 29 | G | 317 | CLA | CHA-CBD-CGD-O2D |
| 29 | K | 208 | CLA | CHA-CBD-CGD-O1D |
| 29 | K | 208 | CLA | CHA-CBD-CGD-O2D |
| 29 | K | 214 | CLA | CHA-CBD-CGD-O1D |
| 29 | K | 214 | CLA | CHA-CBD-CGD-O2D |
| 29 | M | 308 | CLA | CHA-CBD-CGD-O1D |
| 29 | M | 308 | CLA | CHA-CBD-CGD-O2D |
| 29 | L | 308 | CLA | CHA-CBD-CGD-O1D |
| 29 | L | 310 | CLA | CHA-CBD-CGD-O1D |
| 29 | L | 311 | CLA | CHA-CBD-CGD-O2D |
| 29 | L | 312 | CLA | CHA-CBD-CGD-O2D |
| 29 | B | 308 | CLA | CHA-CBD-CGD-O2D |
| 29 | B | 309 | CLA | CHA-CBD-CGD-O1D |
| 29 | B | 309 | CLA | CHA-CBD-CGD-O2D |
| 29 | B | 314 | CLA | CHA-CBD-CGD-O1D |
| 29 | B | 314 | CLA | CHA-CBD-CGD-O2D |
| 29 | N | 316 | CLA | CHA-CBD-CGD-O2D |
| 29 | O | 311 | CLA | CHA-CBD-CGD-O1D |
| 29 | O | 316 | CLA | CHA-CBD-CGD-O2D |
| 29 | T | 316 | CLA | CHA-CBD-CGD-O1D |
| 29 | T | 316 | CLA | CHA-CBD-CGD-O2D |
| 29 | Q | 308 | CLA | CHA-CBD-CGD-O1D |
| 29 | Q | 308 | CLA | CHA-CBD-CGD-O2D |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | Q | 310 | CLA | CHA-CBD-CGD-O1D |
| 29 | Q | 315 | CLA | CHA-CBD-CGD-O1D |
| 29 | Q | 315 | CLA | CHA-CBD-CGD-O2D |
| 29 | C | 308 | CLA | CHA-CBD-CGD-O1D |
| 29 | C | 308 | CLA | CHA-CBD-CGD-O2D |
| 29 | C | 311 | CLA | CHA-CBD-CGD-O2D |
| 29 | E | 305 | CLA | CHA-CBD-CGD-O2D |
| 39 | I | 215 | KC1 | CHA-CBD-CGD-O1D |
| 39 | K | 215 | KC1 | CHA-CBD-CGD-O2D |
| 39 | N | 312 | KC1 | CHA-CBD-CGD-O1D |
| 39 | Q | 311 | KC1 | CHA-CBD-CGD-O2D |
| 39 | P | 211 | KC1 | CHA-CBD-CGD-O2D |
| 39 | P | 213 | KC1 | CHA-CBD-CGD-O1D |
| 39 | E | 312 | KC1 | CHA-CBD-CGD-O1D |
| 29 | b | 701 | CLA | C13-C15-C16-C17 |
| 29 | B | 316 | CLA | CAA-CBA-CGA-O1A |
| 29 | D | 311 | CLA | CAA-CBA-CGA-O2A |
| 29 | a | 806 | CLA | C2-C3-C5-C6 |
| 37 | D | 307 | PID | C19-C20-C21-C22 |
| 37 | C | 305 | PID | C19-C20-C21-C22 |
| 29 | E | 306 | CLA | C16-C17-C18-C20 |
| 29 | L | 307 | CLA | CAA-CBA-CGA-O2A |
| 34 | K | 201 | LMG | C30-C31-C32-C33 |
| 34 | j | 102 | LMG | O1-C7-C8-O7 |
| 29 | I | 211 | CLA | C13-C15-C16-C17 |
| 29 | D | 311 | CLA | O1A-CGA-O2A-C1 |
| 29 | a | 806 | CLA | CAA-CBA-CGA-O2A |
| 29 | a | 831 | CLA | CAA-CBA-CGA-O2A |
| 29 | b | 709 | CLA | CAA-CBA-CGA-O2A |
| 29 | l | 501 | CLA | CAA-CBA-CGA-O2A |
| 29 | H | 310 | CLA | CAA-CBA-CGA-O2A |
| 29 | a | 802 | CLA | C2A-CAA-CBA-CGA |
| 29 | a | 812 | CLA | C11-C12-C13-C14 |
| 29 | b | 717 | CLA | CAA-CBA-CGA-O2A |
| 29 | D | 312 | CLA | CAA-CBA-CGA-O2A |
| 34 | b | 730 | LMG | C40-C41-C42-C43 |
| 35 | B | 318 | DGD | C4B-C5B-C6B-C7B |
| 29 | a | 806 | CLA | C11-C12-C13-C15 |
| 29 | b | 721 | CLA | C6-C7-C8-C10 |
| 29 | l | 503 | CLA | C11-C10-C8-C7 |
| 29 | G | 316 | CLA | C11-C12-C13-C15 |
| 29 | C | 309 | CLA | C11-C10-C8-C7 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 31 | a | 833 | LHG | C24-C25-C26-C27 |
| 29 | b | 707 | CLA | C13-C15-C16-C17 |
| 34 | j | 102 | LMG | O8-C28-C29-C30 |
| 29 | a | 831 | CLA | O1A-CGA-O2A-C1 |
| 29 | a | 811 | CLA | C6-C7-C8-C9 |
| 29 | b | 703 | CLA | C6-C7-C8-C9 |
| 29 | l | 504 | CLA | C6-C7-C8-C9 |
| 29 | G | 316 | CLA | C11-C12-C13-C14 |
| 29 | Q | 308 | CLA | C14-C13-C15-C16 |
| 34 | j | 102 | LMG | O9-C10-C11-C12 |
| 37 | O | 305 | PID | C14-C15-C16-C17 |
| 29 | G | 301 | CLA | O2A-C1-C2-C3 |
| 37 | F | 302 | PID | C15-C16-C17-C18 |
| 34 | K | 201 | LMG | C10-C11-C12-C13 |
| 40 | J | 314 | SQD | C4-C5-C6-S |
| 29 | a | 821 | CLA | CAA-CBA-CGA-O1A |
| 29 | b | 703 | CLA | CAA-CBA-CGA-O1A |
| 35 | b | 733 | DGD | O1B-C1B-C2B-C3B |
| 29 | b | 717 | CLA | CBA-CGA-O2A-C1 |
| 29 | K | 217 | CLA | CAA-CBA-CGA-O1A |
| 29 | O | 309 | CLA | C16-C17-C18-C19 |
| 29 | A | 211 | CLA | C4-C3-C5-C6 |
| 29 | P | 212 | CLA | CAA-CBA-CGA-O2A |
| 29 | b | 710 | CLA | CAA-CBA-CGA-O1A |
| 34 | j | 102 | LMG | C11-C12-C13-C14 |
| 29 | a | 831 | CLA | CBA-CGA-O2A-C1 |
| 29 | a | 831 | CLA | C1A-C2A-CAA-CBA |
| 29 | b | 703 | CLA | C1A-C2A-CAA-CBA |
| 29 | b | 722 | CLA | C1A-C2A-CAA-CBA |
| 29 | A | 215 | CLA | C1A-C2A-CAA-CBA |
| 29 | A | 217 | CLA | C1A-C2A-CAA-CBA |
| 29 | I | 209 | CLA | C1A-C2A-CAA-CBA |
| 29 | K | 212 | CLA | C1A-C2A-CAA-CBA |
| 29 | F | 312 | CLA | C1A-C2A-CAA-CBA |
| 29 | M | 309 | CLA | C1A-C2A-CAA-CBA |
| 29 | B | 308 | CLA | C1A-C2A-CAA-CBA |
| 29 | H | 310 | CLA | C1A-C2A-CAA-CBA |
| 29 | Q | 312 | CLA | C1A-C2A-CAA-CBA |
| 29 | A | 208 | CLA | CAA-CBA-CGA-O1A |
| 29 | I | 209 | CLA | CAA-CBA-CGA-O1A |
| 29 | L | 316 | CLA | CAA-CBA-CGA-O1A |
| 34 | A | 219 | LMG | O9-C10-C11-C12 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 35 | j | 106 | DGD | O1A-C1A-C2A-C3A |
| 34 | K | 201 | LMG | O1-C7-C8-C9 |
| 29 | C | 311 | CLA | C2A-CAA-CBA-CGA |
| 29 | O | 308 | CLA | CBD-CGD-O2D-CED |
| 29 | I | 211 | CLA | C16-C17-C18-C19 |
| 34 | b | 732 | LMG | C30-C31-C32-C33 |
| 40 | J | 314 | SQD | C9-C10-C11-C12 |
| 29 | H | 307 | CLA | O1D-CGD-O2D-CED |
| 29 | L | 309 | CLA | CAA-CBA-CGA-O1A |
| 29 | D | 311 | CLA | CAA-CBA-CGA-O1A |
| 34 | j | 102 | LMG | O10-C28-C29-C30 |
| 29 | G | 302 | CLA | C8-C10-C11-C12 |
| 36 | D | 301 | DD6 | C11-C13-C14-C15 |
| 37 | H | 305 | PID | C6-C7-C8-C9 |
| 37 | O | 307 | PID | C6-C7-C8-C9 |
| 37 | T | 317 | PID | C6-C7-C8-C9 |
| 35 | j | 103 | DGD | O1A-C1A-C2A-C3A |
| 40 | J | 314 | SQD | C13-C14-C15-C16 |
| 29 | a | 813 | CLA | CAA-CBA-CGA-O2A |
| 29 | b | 719 | CLA | CAA-CBA-CGA-O2A |
| 29 | B | 309 | CLA | CAA-CBA-CGA-O2A |
| 34 | A | 219 | LMG | O7-C10-C11-C12 |
| 29 | B | 315 | CLA | C4C-C3C-CAC-CBC |
| 29 | b | 709 | CLA | CAA-CBA-CGA-O1A |
| 29 | K | 210 | CLA | CAA-CBA-CGA-O1A |
| 29 | G | 316 | CLA | C8-C10-C11-C12 |
| 29 | E | 305 | CLA | C8-C10-C11-C12 |
| 29 | K | 209 | CLA | CAA-CBA-CGA-O2A |
| 29 | a | 807 | CLA | C15-C16-C17-C18 |
| 29 | A | 209 | CLA | C15-C16-C17-C18 |
| 29 | a | 806 | CLA | CAA-CBA-CGA-O1A |
| 29 | b | 720 | CLA | CAA-CBA-CGA-O1A |
| 29 | B | 308 | CLA | O1D-CGD-O2D-CED |
| 29 | M | 307 | CLA | C2-C3-C5-C6 |
| 29 | a | 813 | CLA | C2-C3-C5-C6 |
| 29 | a | 814 | CLA | CAD-CBD-CGD-O1D |
| 29 | a | 827 | CLA | CAD-CBD-CGD-O1D |
| 29 | b | 722 | CLA | CAD-CBD-CGD-O1D |
| 29 | G | 304 | CLA | CAD-CBD-CGD-O1D |
| 29 | G | 312 | CLA | CAD-CBD-CGD-O1D |
| 29 | G | 316 | CLA | CAD-CBD-CGD-O1D |
| 29 | G | 319 | CLA | CAD-CBD-CGD-O1D |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | K | 208 | CLA | CAD-CBD-CGD-O1D |
| 29 | K | 214 | CLA | CAD-CBD-CGD-O1D |
| 29 | J | 306 | CLA | CAD-CBD-CGD-O1D |
| 29 | M | 306 | CLA | CAD-CBD-CGD-O1D |
| 29 | L | 310 | CLA | CAD-CBD-CGD-O1D |
| 29 | Q | 307 | CLA | CAD-CBD-CGD-O1D |
| 29 | Q | 308 | CLA | CAD-CBD-CGD-O1D |
| 29 | C | 308 | CLA | CAD-CBD-CGD-O1D |
| 29 | P | 210 | CLA | CAD-CBD-CGD-O1D |
| 29 | P | 217 | CLA | CAD-CBD-CGD-O1D |
| 29 | E | 315 | CLA | CAD-CBD-CGD-O1D |
| 34 | A | 219 | LMG | C9-C8-O7-C10 |
| 38 | P | 207 | UIX | C25-C28-C32-C35 |
| 39 | Q | 309 | KC1 | CAD-CBD-CGD-O1D |
| 40 | J | 314 | SQD | O5-C5-C6-S |
| 29 | b | 715 | CLA | CBD-CGD-O2D-CED |
| 29 | G | 313 | CLA | CAA-CBA-CGA-O1A |
| 29 | F | 311 | CLA | CAA-CBA-CGA-O1A |
| 29 | D | 312 | CLA | CAA-CBA-CGA-O1A |
| 29 | N | 311 | CLA | CAA-CBA-CGA-O2A |
| 34 | K | 219 | LMG | O8-C28-C29-C30 |
| 29 | a | 806 | CLA | C11-C12-C13-C14 |
| 29 | a | 807 | CLA | C14-C13-C15-C16 |
| 29 | b | 702 | CLA | C6-C7-C8-C9 |
| 29 | b | 712 | CLA | C11-C10-C8-C9 |
| 29 | b | 720 | CLA | C6-C7-C8-C9 |
| 29 | i | 201 | CLA | C14-C13-C15-C16 |
| 29 | b | 715 | CLA | O1D-CGD-O2D-CED |
| 29 | K | 218 | CLA | CAA-CBA-CGA-O2A |
| 29 | H | 310 | CLA | CAA-CBA-CGA-O1A |
| 29 | l | 503 | CLA | CAA-CBA-CGA-O2A |
| 29 | H | 312 | CLA | CAA-CBA-CGA-O2A |
| 39 | L | 314 | KC1 | CAA-CBA-CGA-O2A |
| 29 | M | 308 | CLA | CAA-CBA-CGA-O2A |
| 29 | B | 309 | CLA | C5-C6-C7-C8 |
| 29 | a | 831 | CLA | CAA-CBA-CGA-O1A |
| 29 | l | 501 | CLA | CAA-CBA-CGA-O1A |
| 29 | L | 307 | CLA | CAA-CBA-CGA-O1A |
| 29 | P | 212 | CLA | CAA-CBA-CGA-O1A |
| 29 | Q | 308 | CLA | C16-C17-C18-C20 |
| 29 | a | 803 | CLA | C11-C10-C8-C7 |
| 29 | a | 822 | CLA | C12-C13-C15-C16 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | a | 823 | CLA | C11-C10-C8-C7 |
| 29 | a | 824 | CLA | C6-C7-C8-C10 |
| 29 | a | 831 | CLA | C11-C12-C13-C15 |
| 29 | b | 705 | CLA | C12-C13-C15-C16 |
| 29 | b | 726 | CLA | C11-C12-C13-C15 |
| 29 | i | 201 | CLA | C12-C13-C15-C16 |
| 29 | G | 304 | CLA | C11-C10-C8-C7 |
| 29 | G | 317 | CLA | C2-C3-C5-C6 |
| 29 | I | 213 | CLA | C11-C12-C13-C15 |
| 35 | m | 102 | DGD | C1B-C2B-C3B-C4B |
| 29 | a | 810 | CLA | CAA-CBA-CGA-O1A |
| 29 | a | 809 | CLA | CAA-CBA-CGA-O2A |
| 29 | a | 810 | CLA | CAA-CBA-CGA-O2A |
| 29 | a | 812 | CLA | CAA-CBA-CGA-O2A |
| 29 | a | 827 | CLA | CAA-CBA-CGA-O2A |
| 29 | i | 201 | CLA | CAA-CBA-CGA-O2A |
| 29 | A | 209 | CLA | CAA-CBA-CGA-O2A |
| 29 | L | 310 | CLA | CAA-CBA-CGA-O2A |
| 29 | N | 308 | CLA | CAA-CBA-CGA-O2A |
| 29 | P | 209 | CLA | CAA-CBA-CGA-O2A |
| 29 | E | 305 | CLA | CAA-CBA-CGA-O2A |
| 32 | b | 728 | BCR | C7-C8-C9-C10 |
| 32 | b | 729 | BCR | C21-C22-C23-C24 |
| 38 | Q | 305 | UIX | C7-C10-C11-C13 |
| 29 | L | 310 | CLA | CAA-CBA-CGA-O1A |
| 36 | M | 302 | DD6 | C3-C4-C5-C6 |
| 38 | N | 306 | UIX | C32-C35-C36-C38 |
| 29 | b | 708 | CLA | CAA-CBA-CGA-O2A |
| 29 | N | 313 | CLA | CAA-CBA-CGA-O2A |
| 29 | T | 311 | CLA | CAA-CBA-CGA-O2A |
| 29 | Q | 308 | CLA | CAA-CBA-CGA-O2A |
| 29 | C | 311 | CLA | CAA-CBA-CGA-O2A |
| 34 | j | 102 | LMG | O6-C1-O1-C7 |
| 29 | A | 214 | CLA | O1D-CGD-O2D-CED |
| 29 | N | 309 | CLA | C2C-C3C-CAC-CBC |
| 29 | a | 813 | CLA | CAA-CBA-CGA-O1A |
| 29 | a | 827 | CLA | CAA-CBA-CGA-O1A |
| 29 | i | 201 | CLA | CAA-CBA-CGA-O1A |
| 29 | N | 311 | CLA | CAA-CBA-CGA-O1A |
| 29 | P | 209 | CLA | CAA-CBA-CGA-O1A |
| 29 | f | 805 | CLA | C8-C10-C11-C12 |
| 29 | b | 702 | CLA | CAA-CBA-CGA-O2A |

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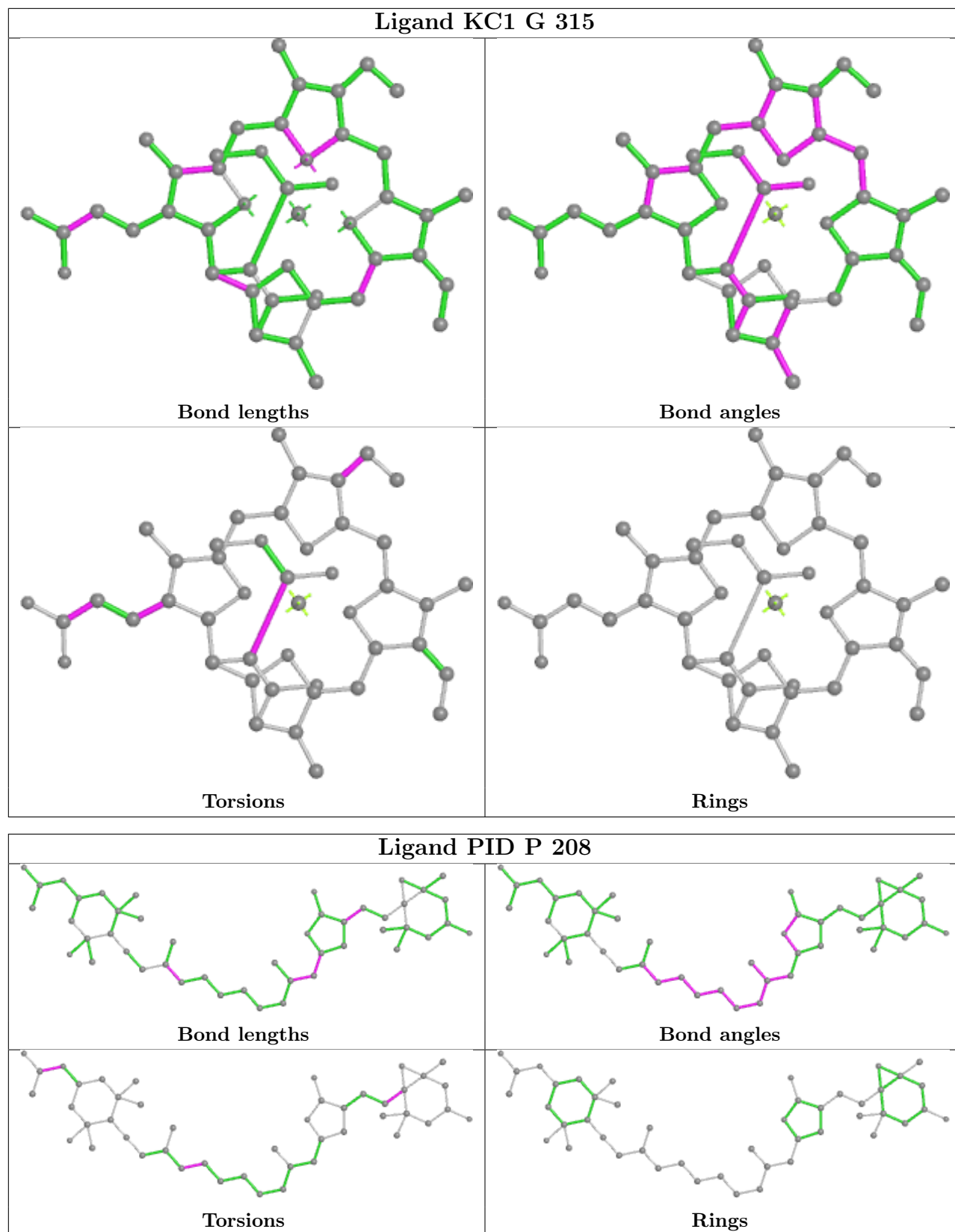
| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 29 | A | 218 | CLA | CAA-CBA-CGA-O2A |
| 29 | K | 211 | CLA | CAA-CBA-CGA-O2A |
| 29 | a | 809 | CLA | CAA-CBA-CGA-O1A |
| 29 | a | 824 | CLA | C2A-CAA-CBA-CGA |
| 29 | b | 709 | CLA | C2A-CAA-CBA-CGA |
| 29 | Q | 308 | CLA | C2A-CAA-CBA-CGA |
| 39 | A | 213 | KC1 | C4C-C3C-CAC-CBC |
| 29 | M | 308 | CLA | CAA-CBA-CGA-O1A |
| 29 | K | 218 | CLA | CAA-CBA-CGA-O1A |

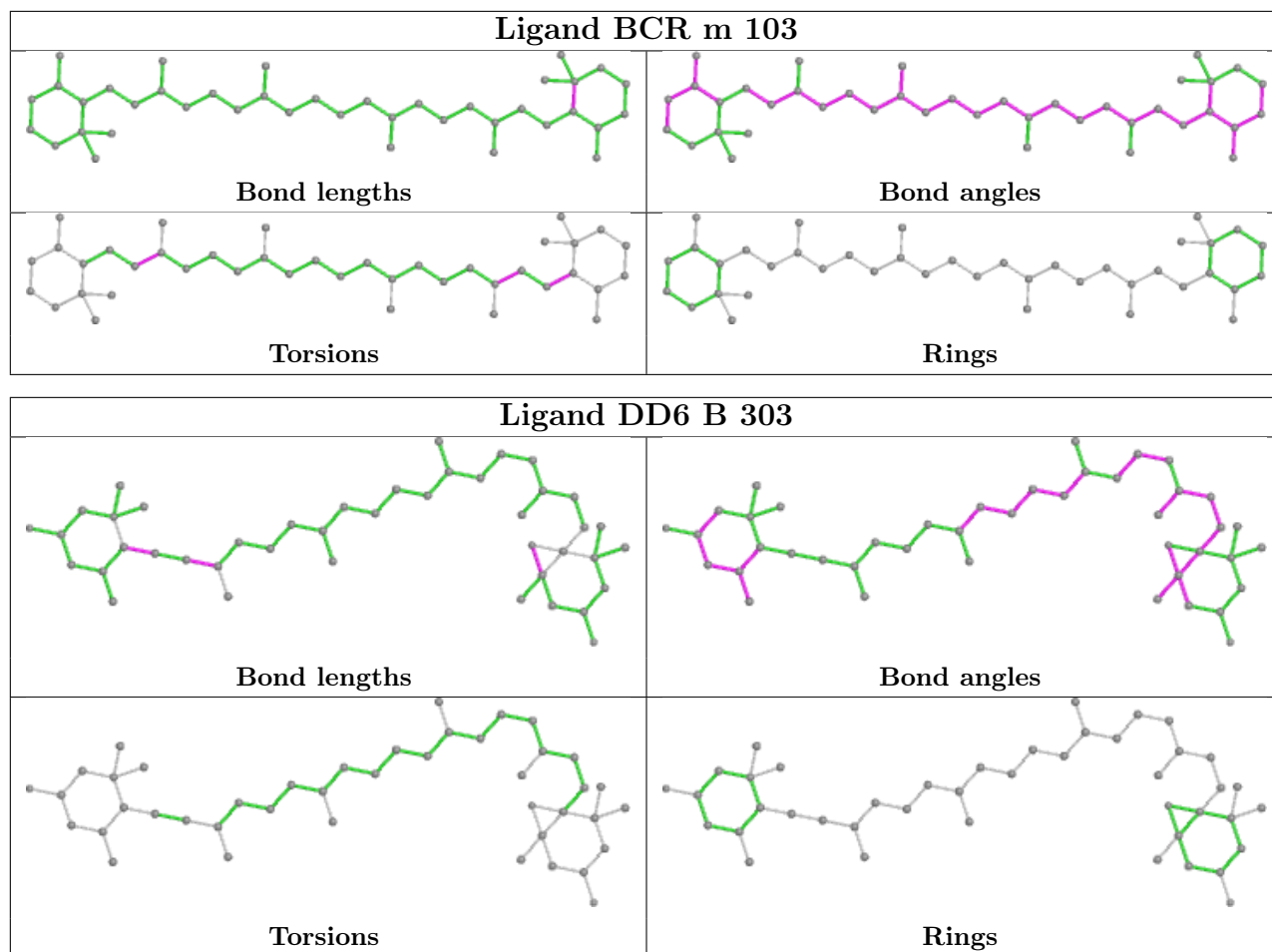
All (3) ring outliers are listed below:

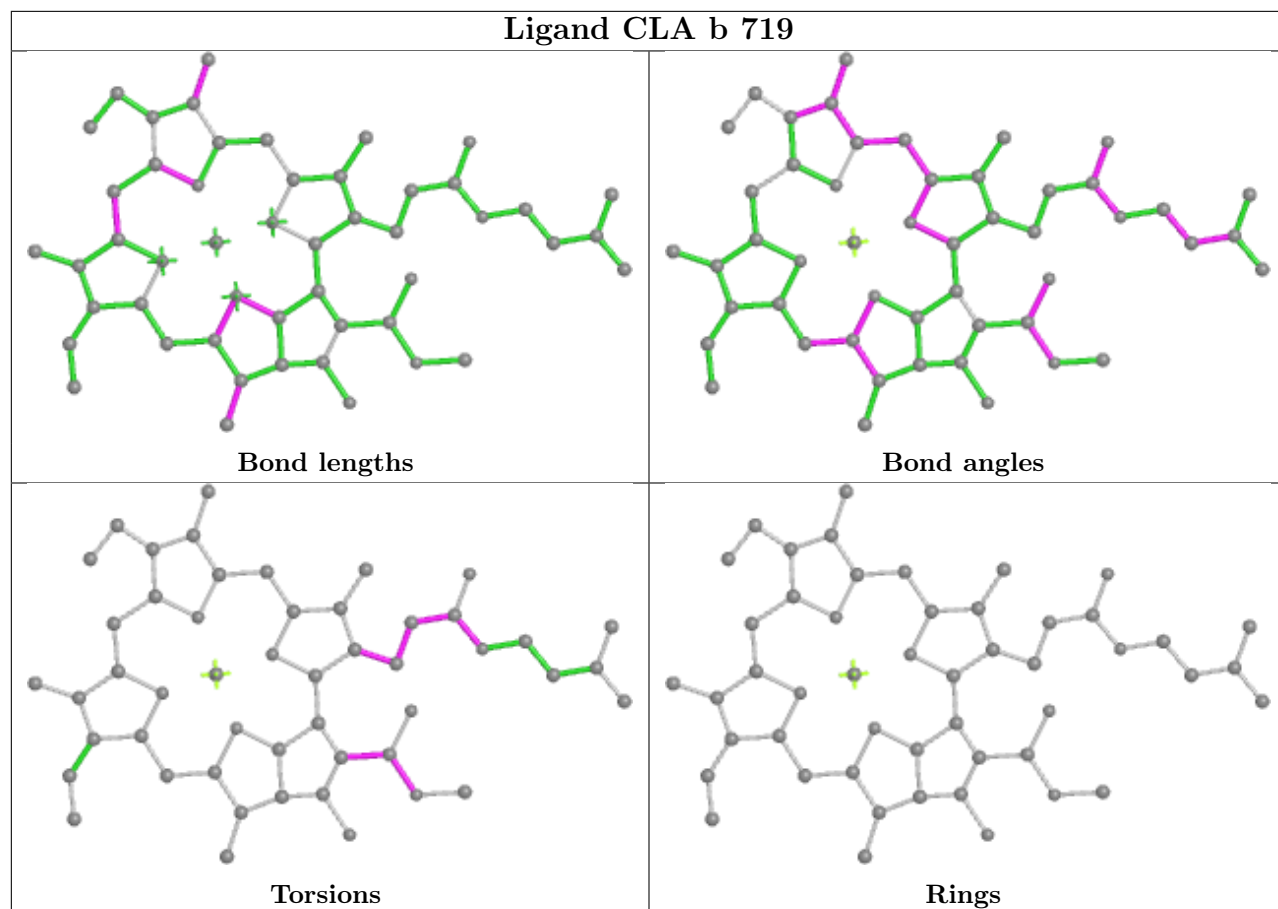
| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-------------------------|
| 37 | h | 204 | PID | C24-C25-C26-C27-C28-C29 |
| 37 | T | 317 | PID | C24-C25-C26-C27-C28-C29 |
| 37 | F | 304 | PID | C24-C25-C26-C27-C28-C29 |

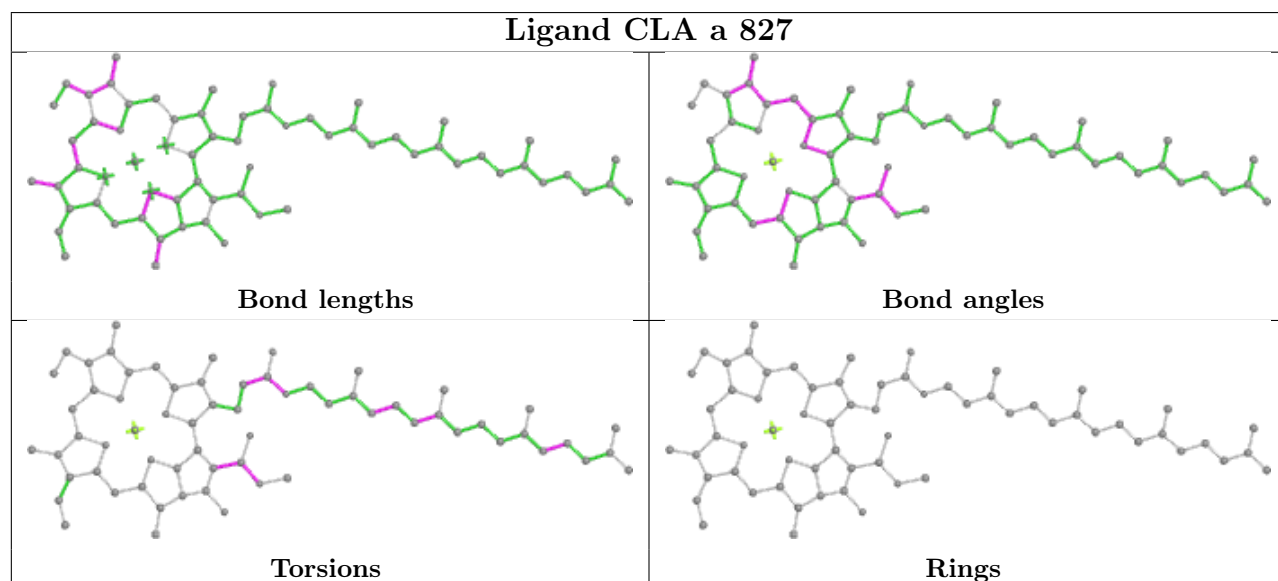
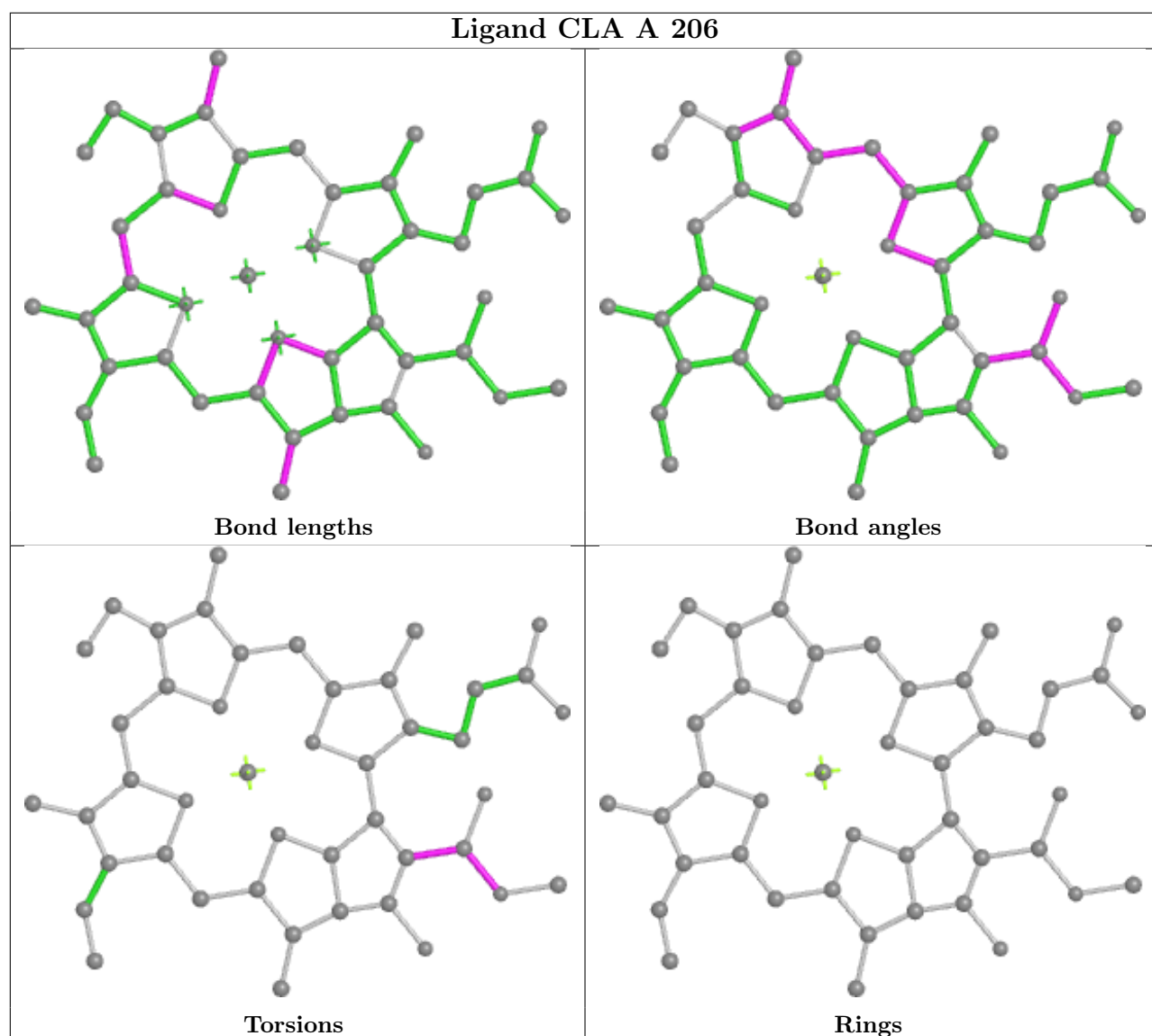
No monomer is involved in short contacts.

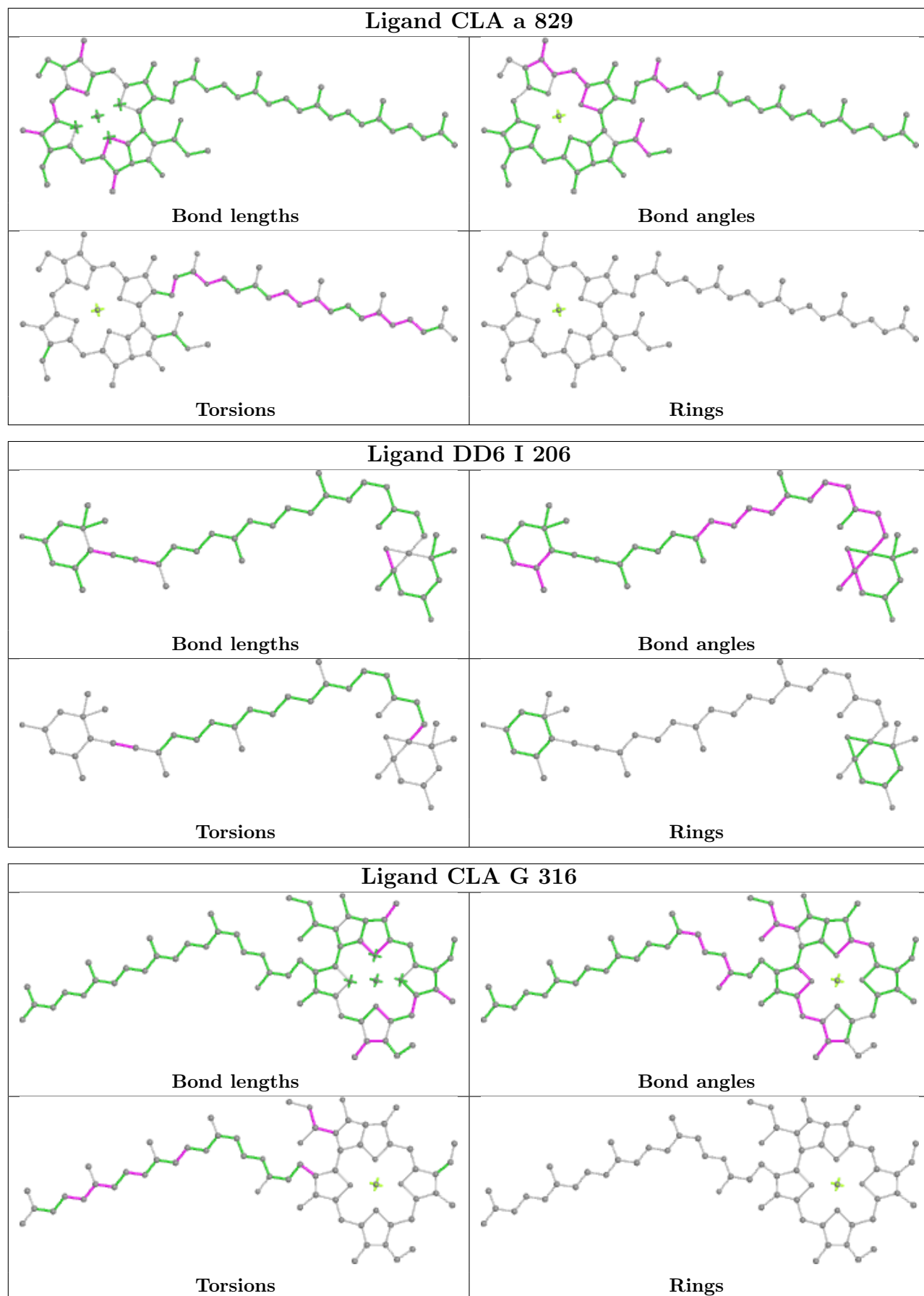
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

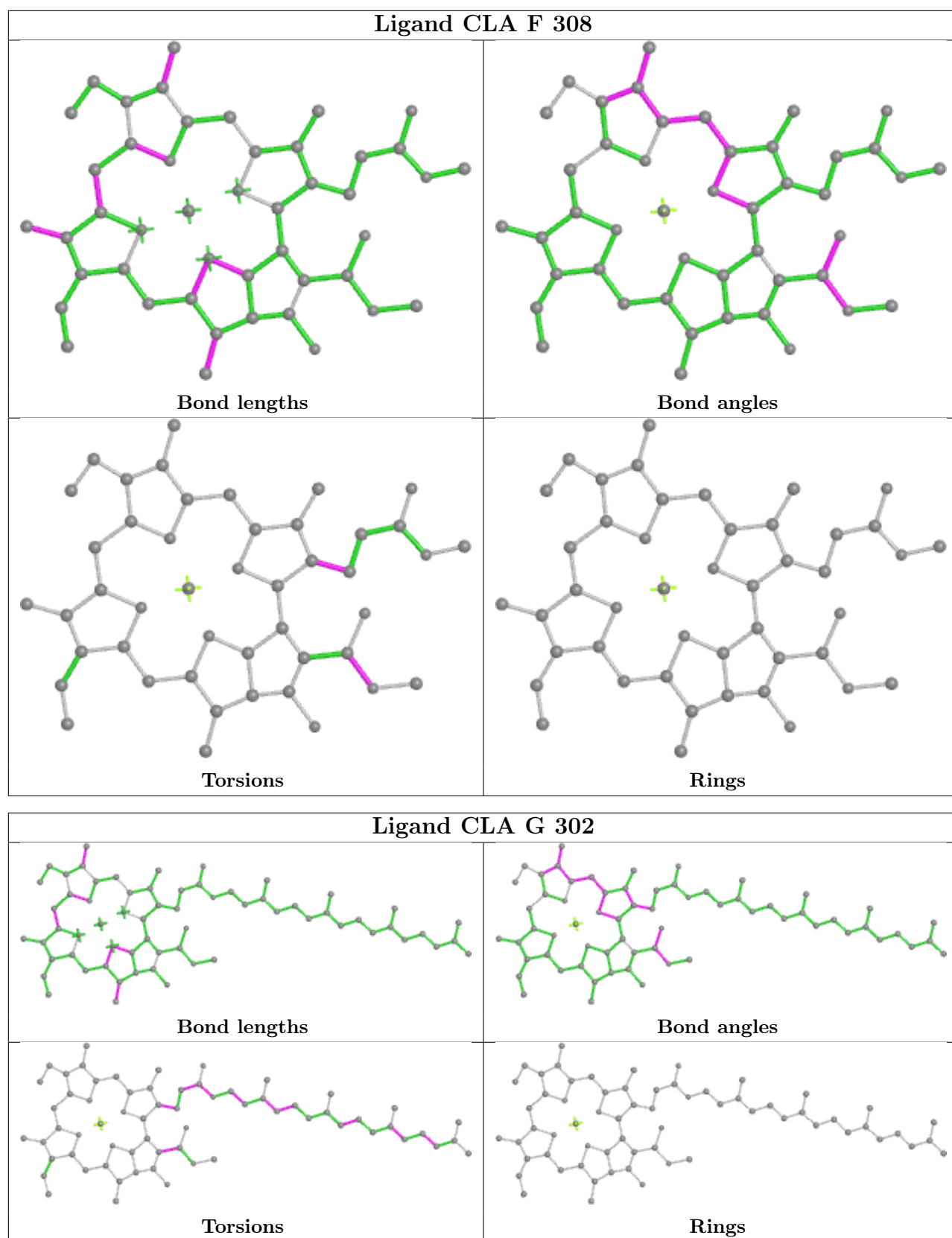


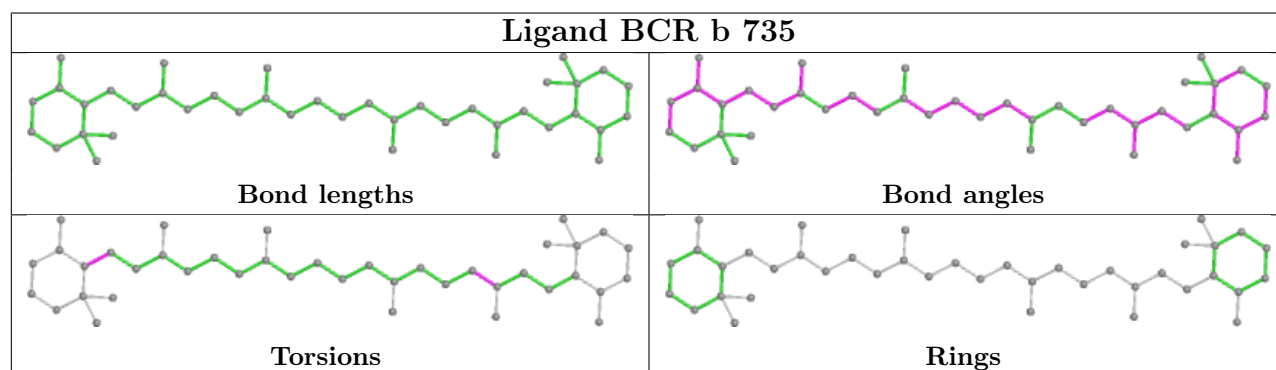
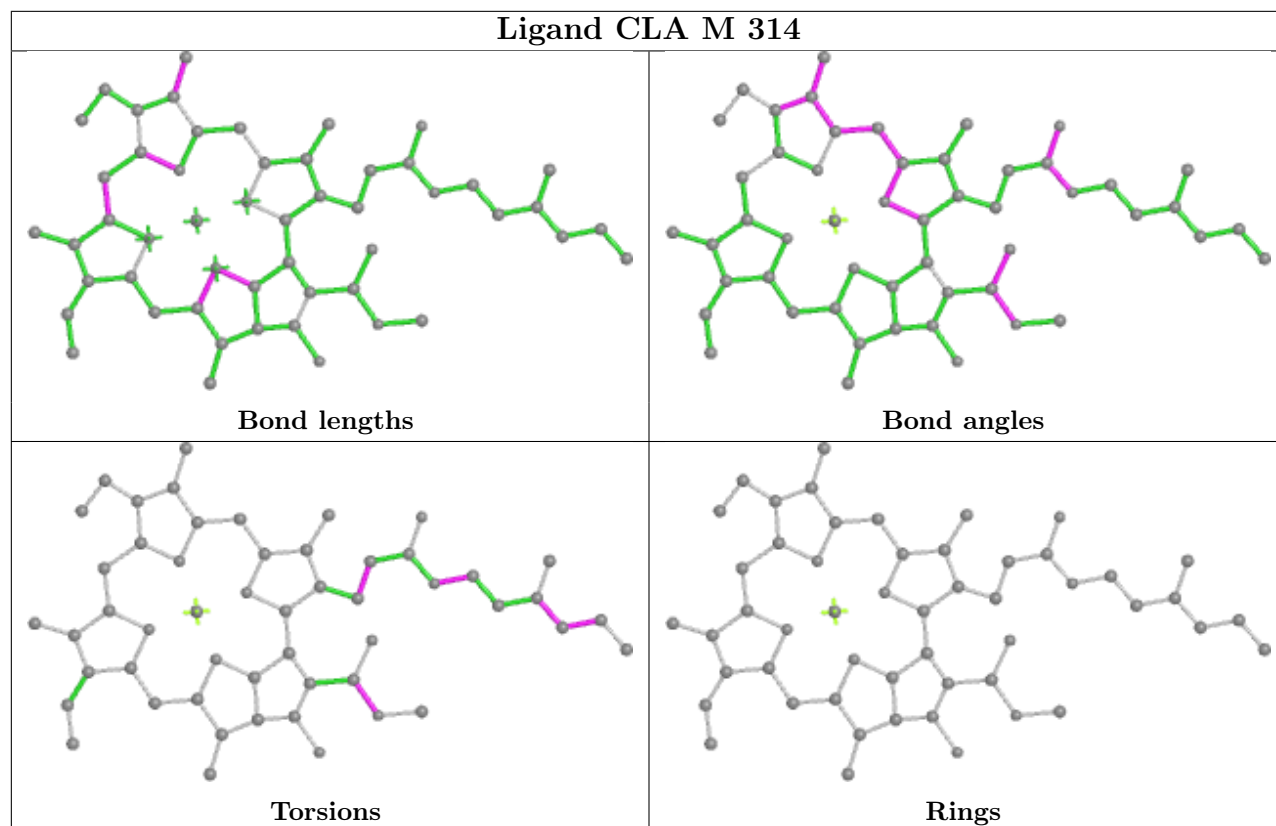
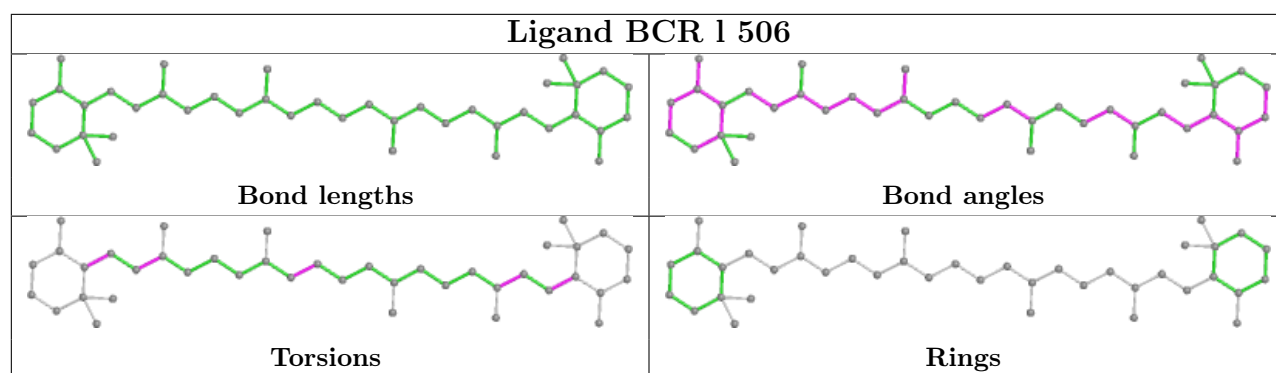


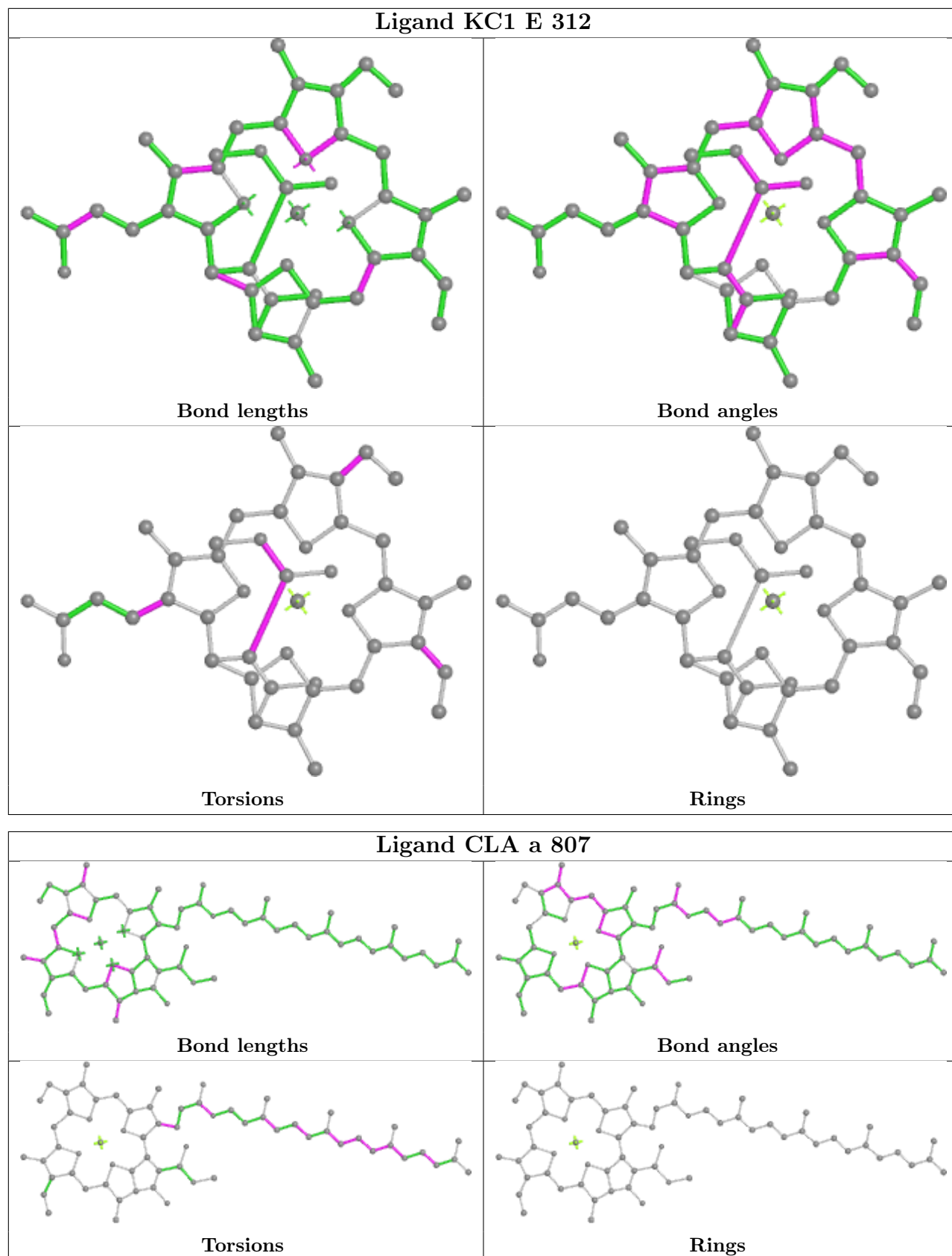


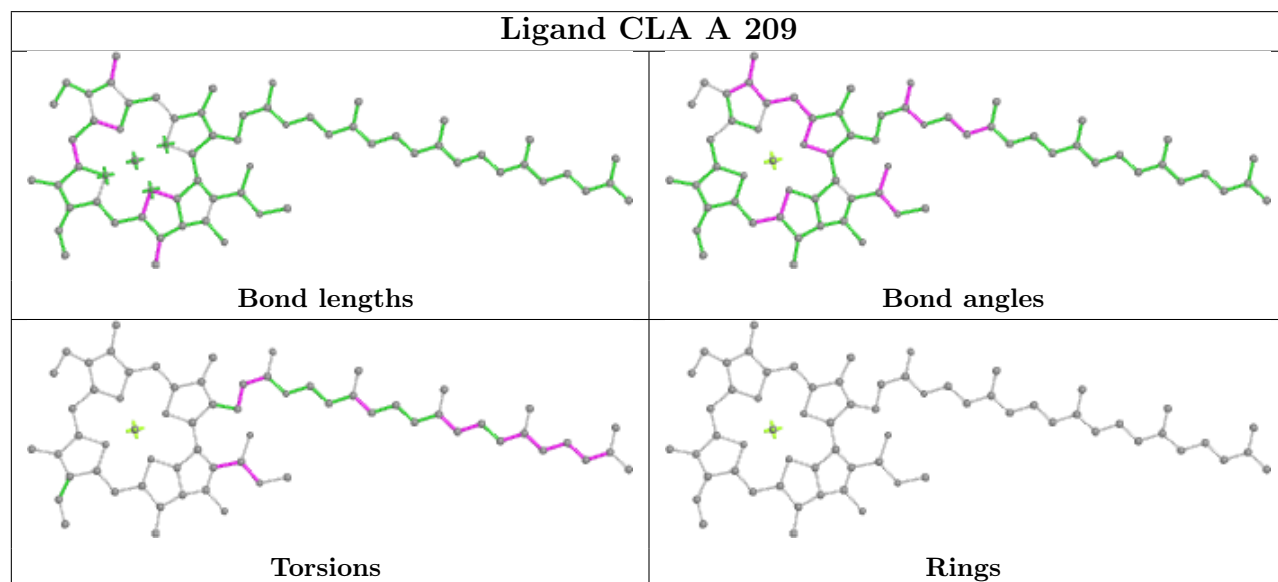
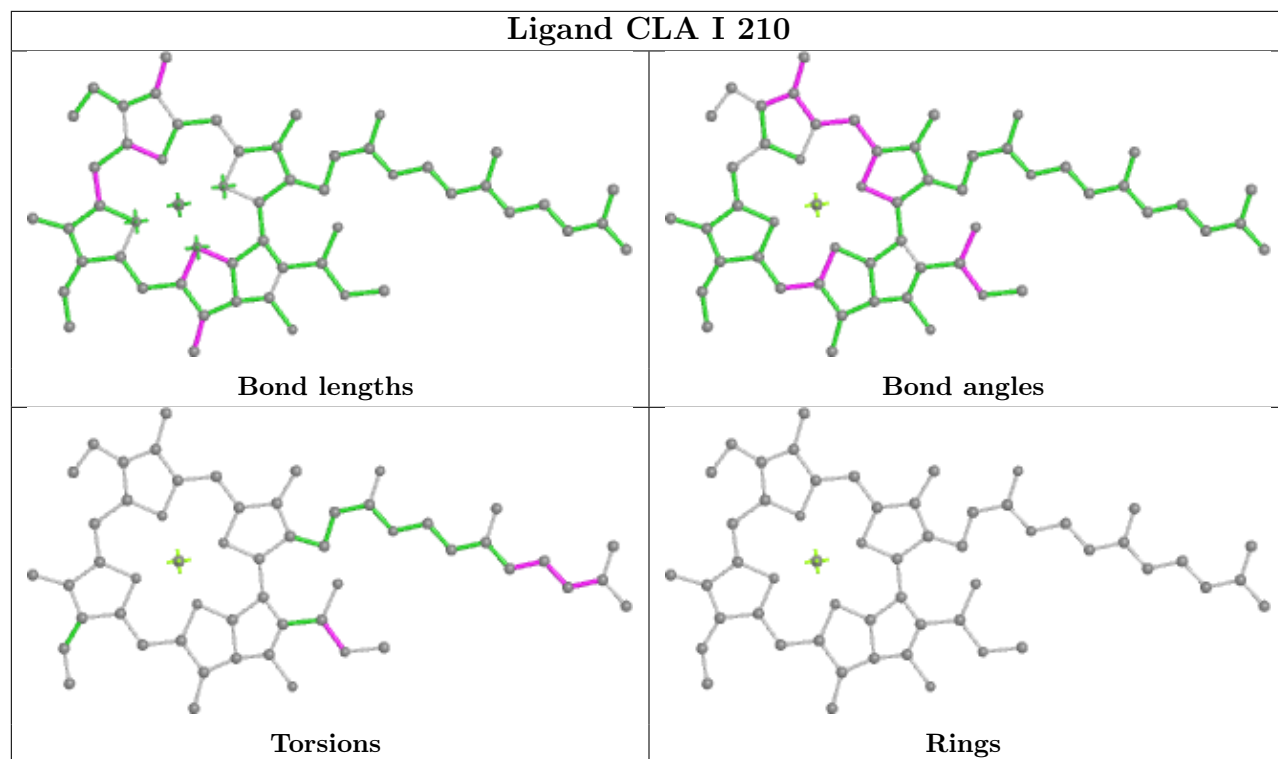


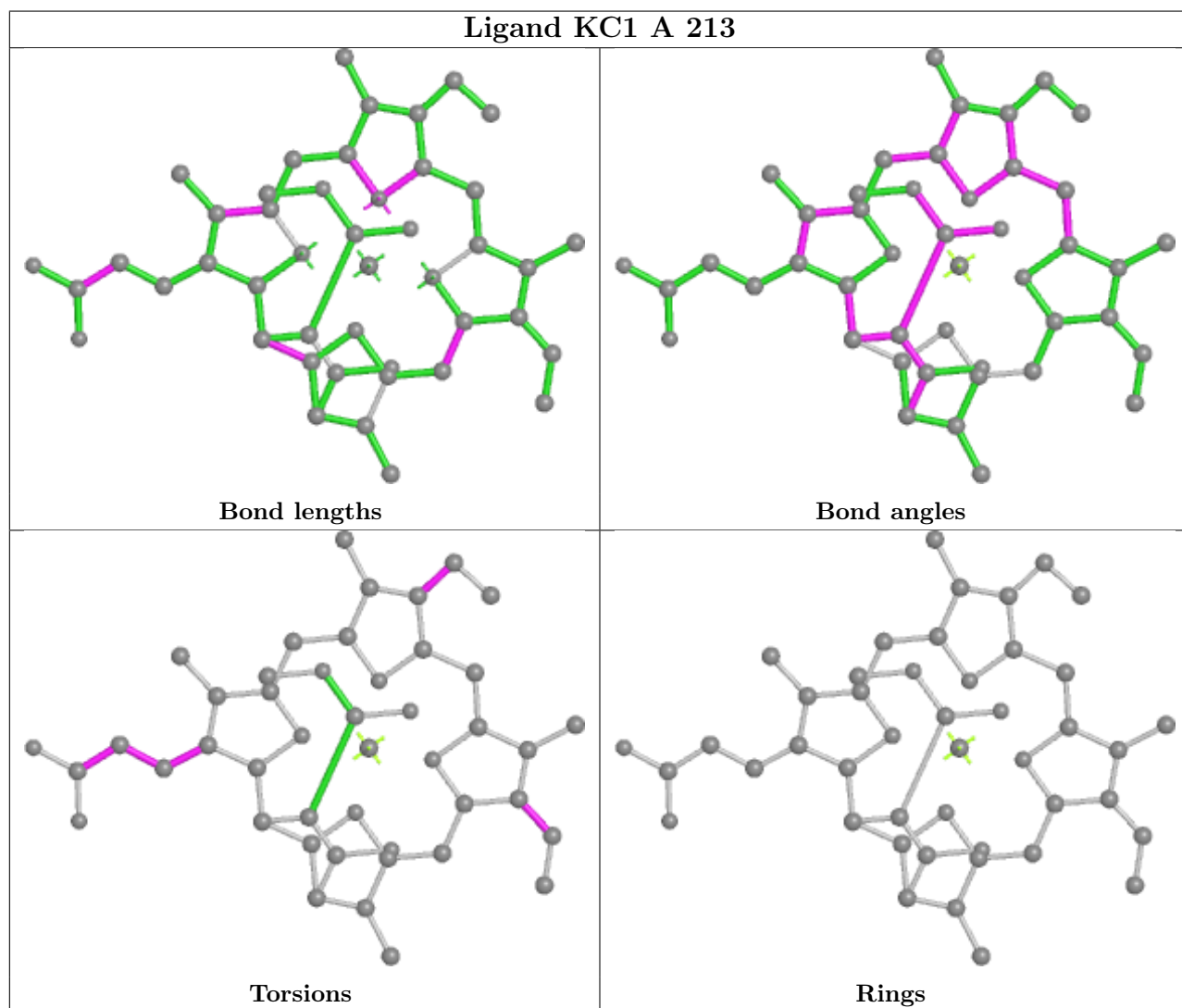
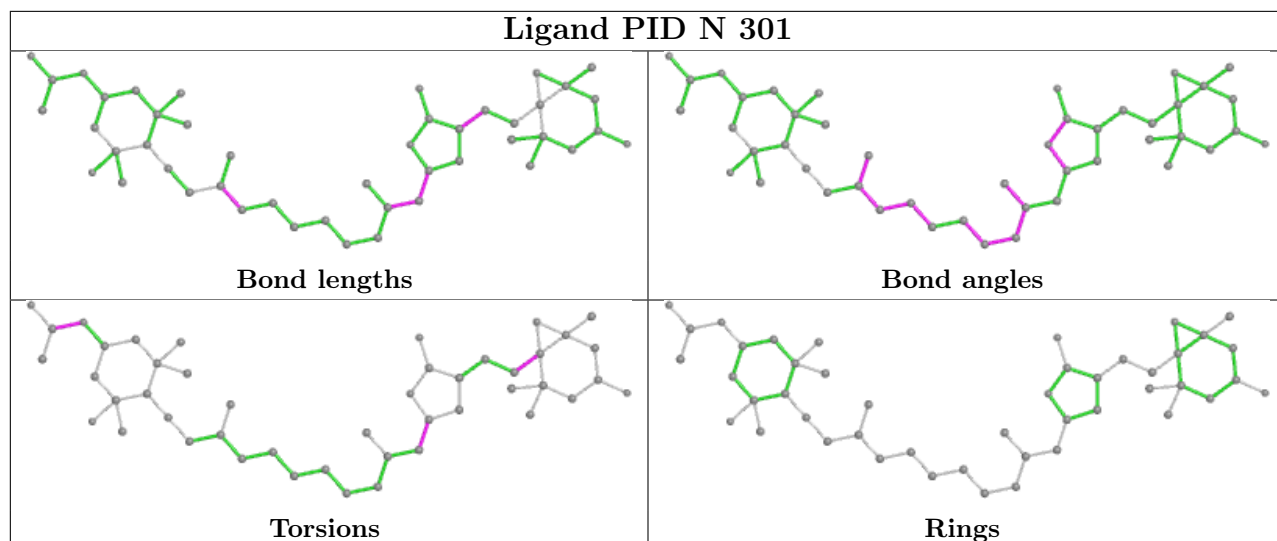


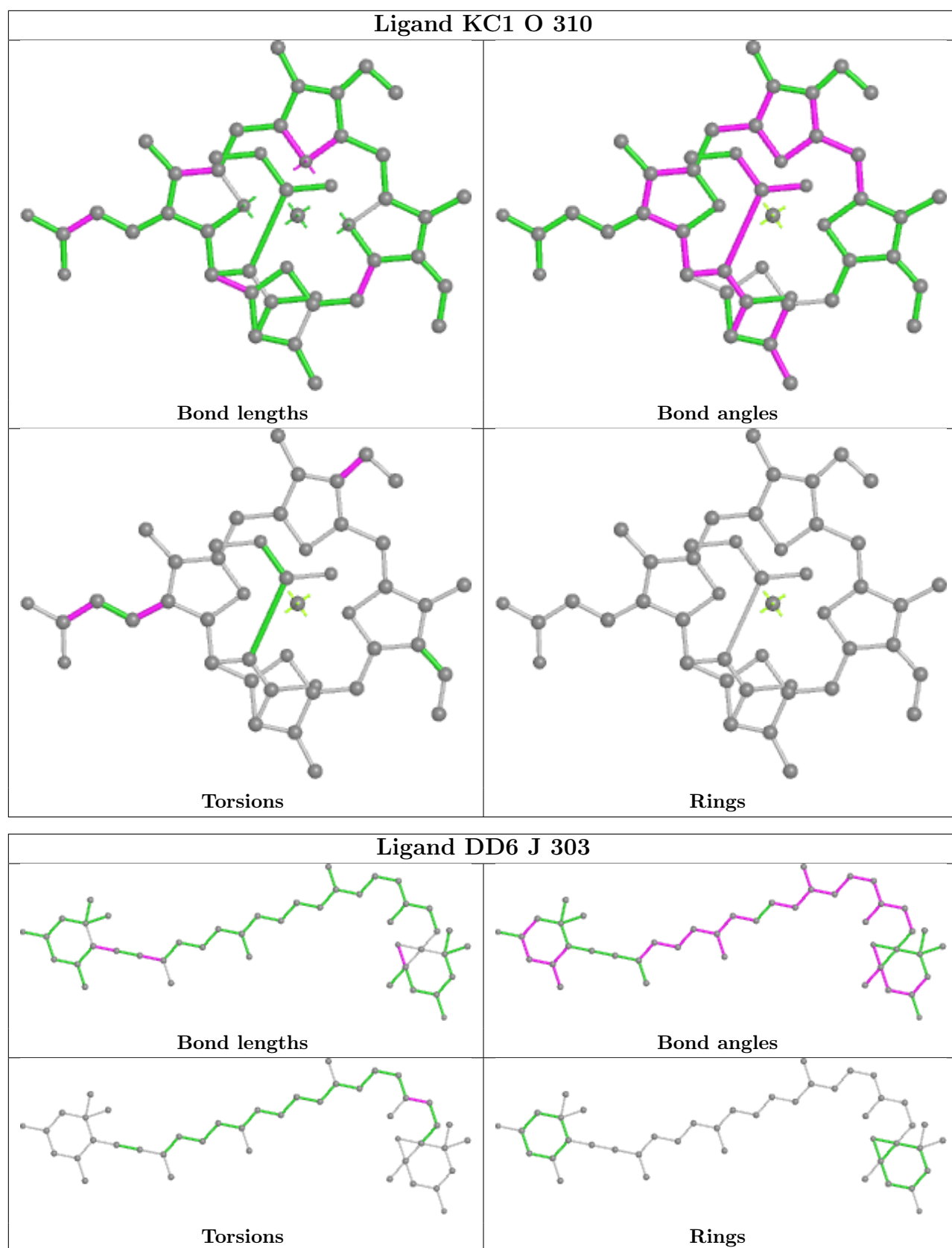


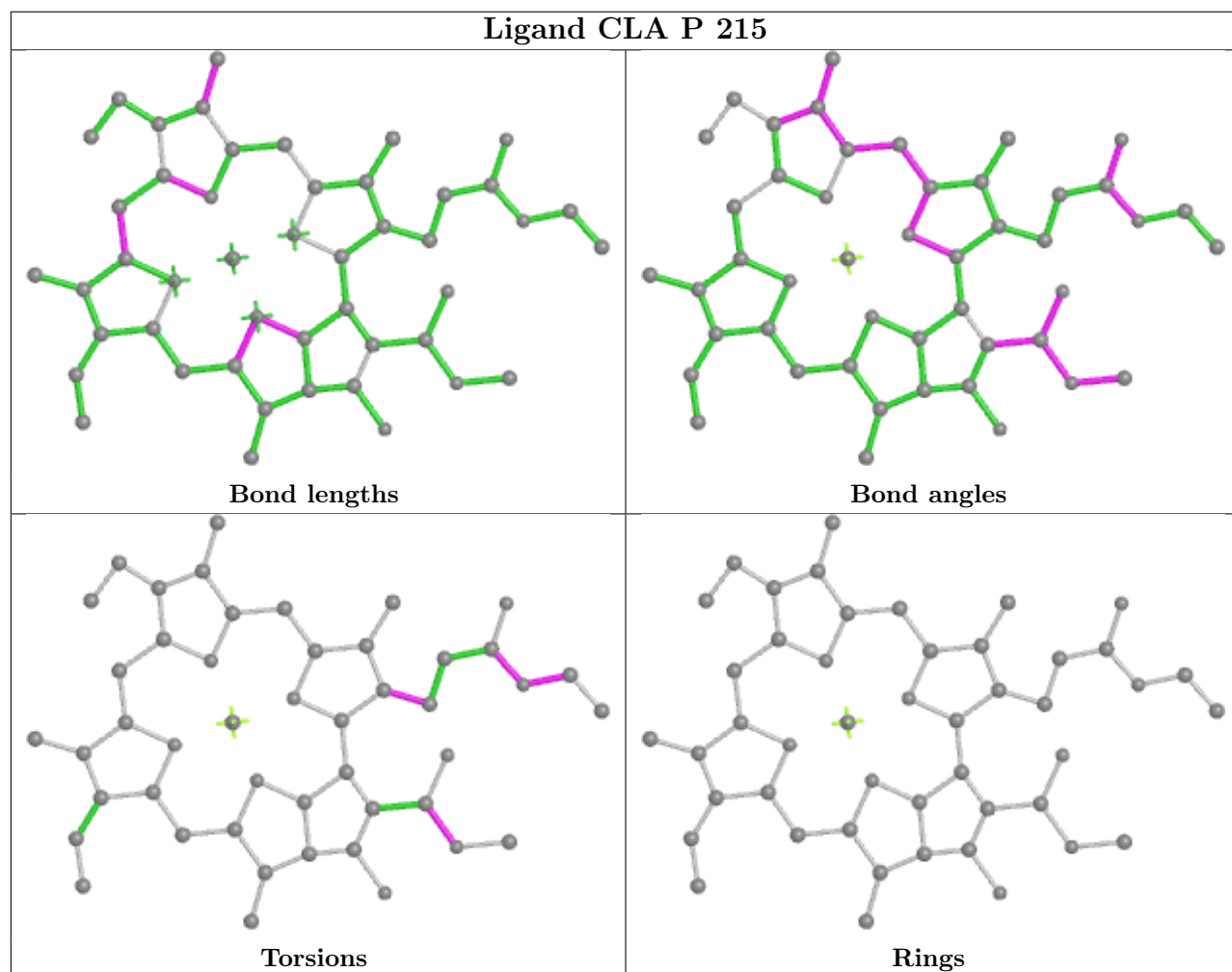
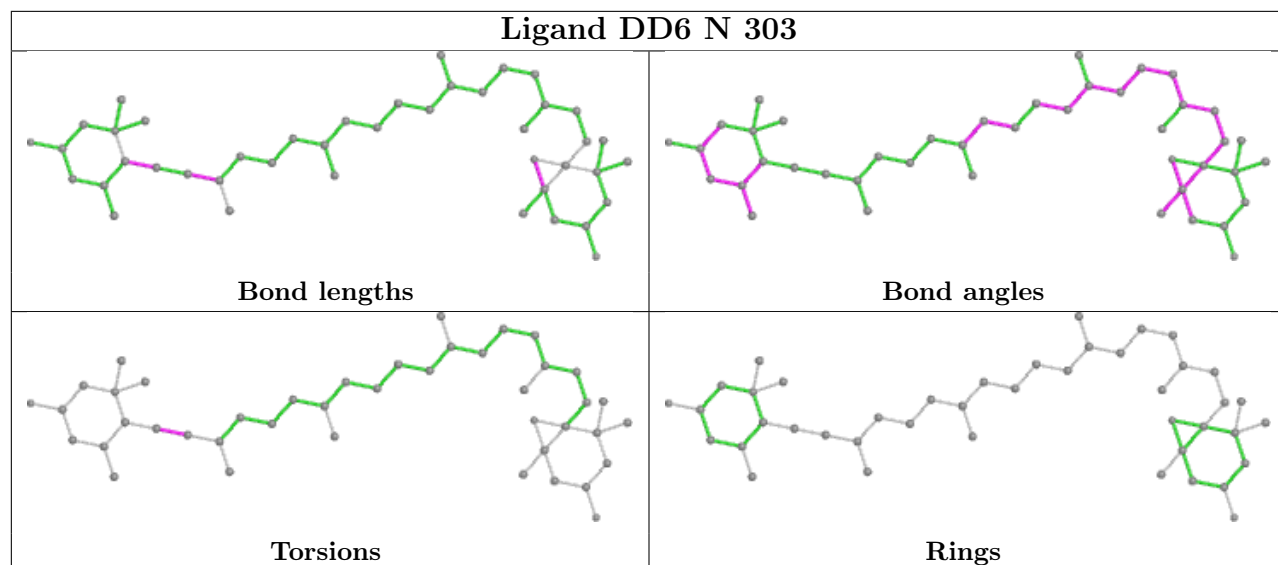


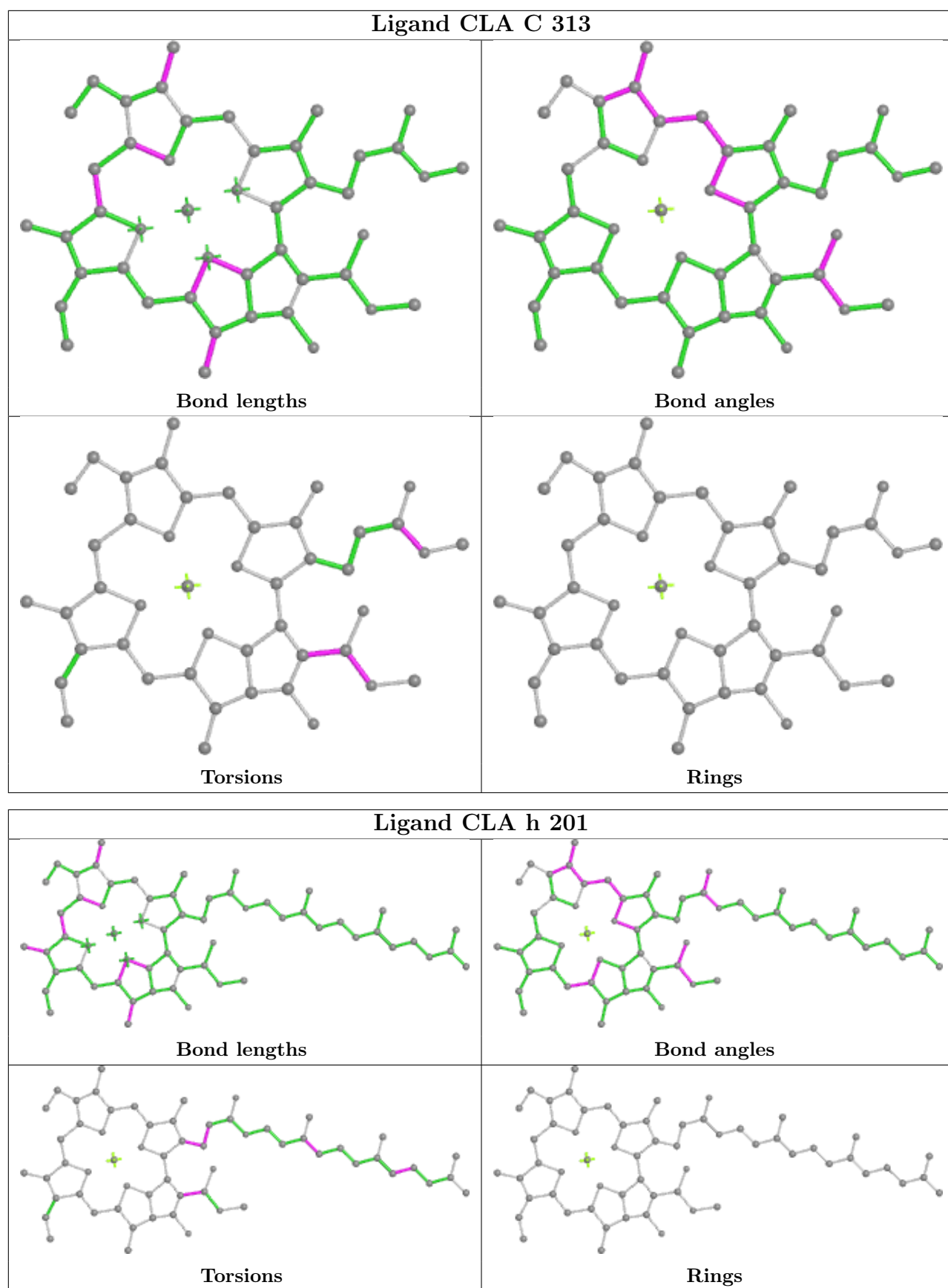


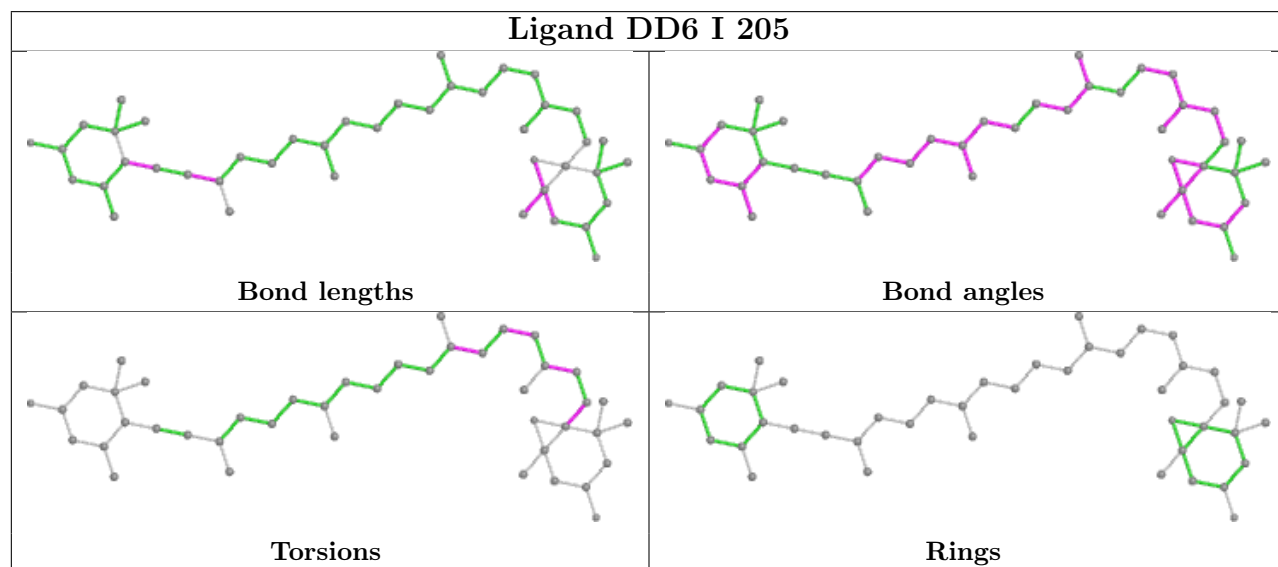
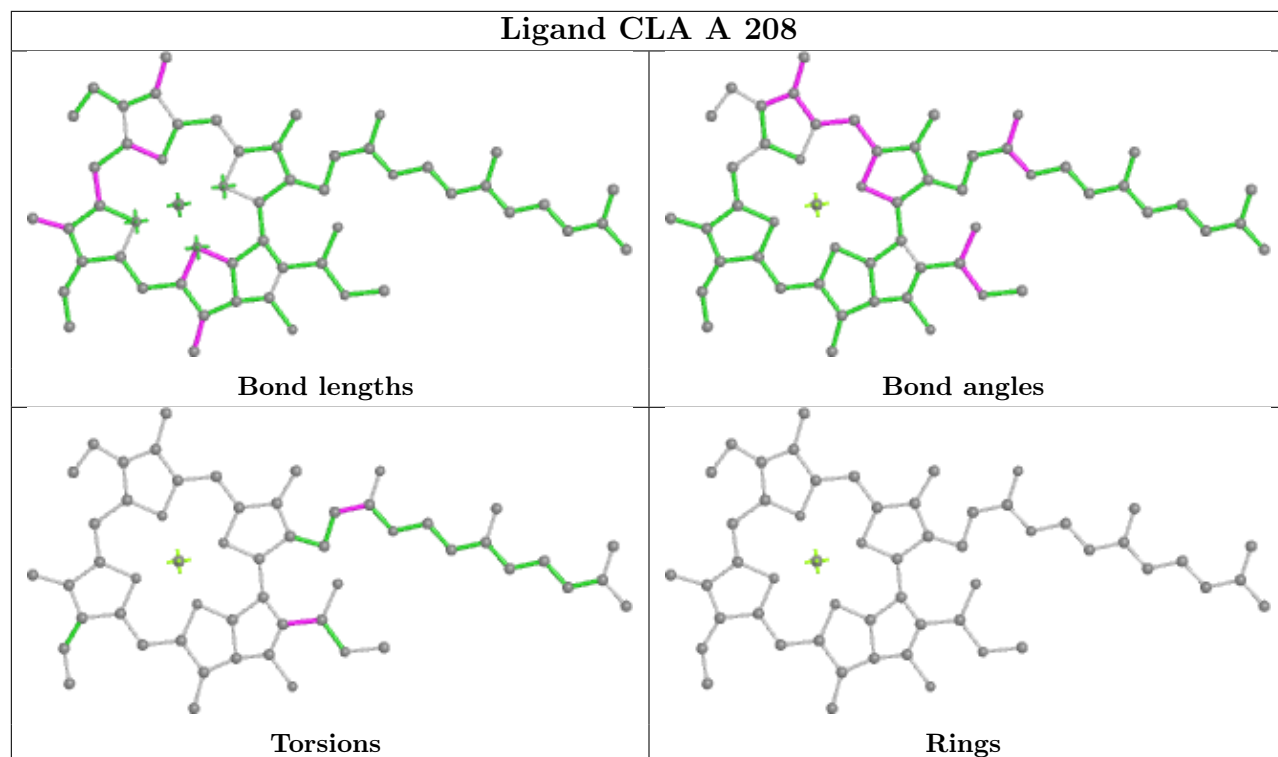


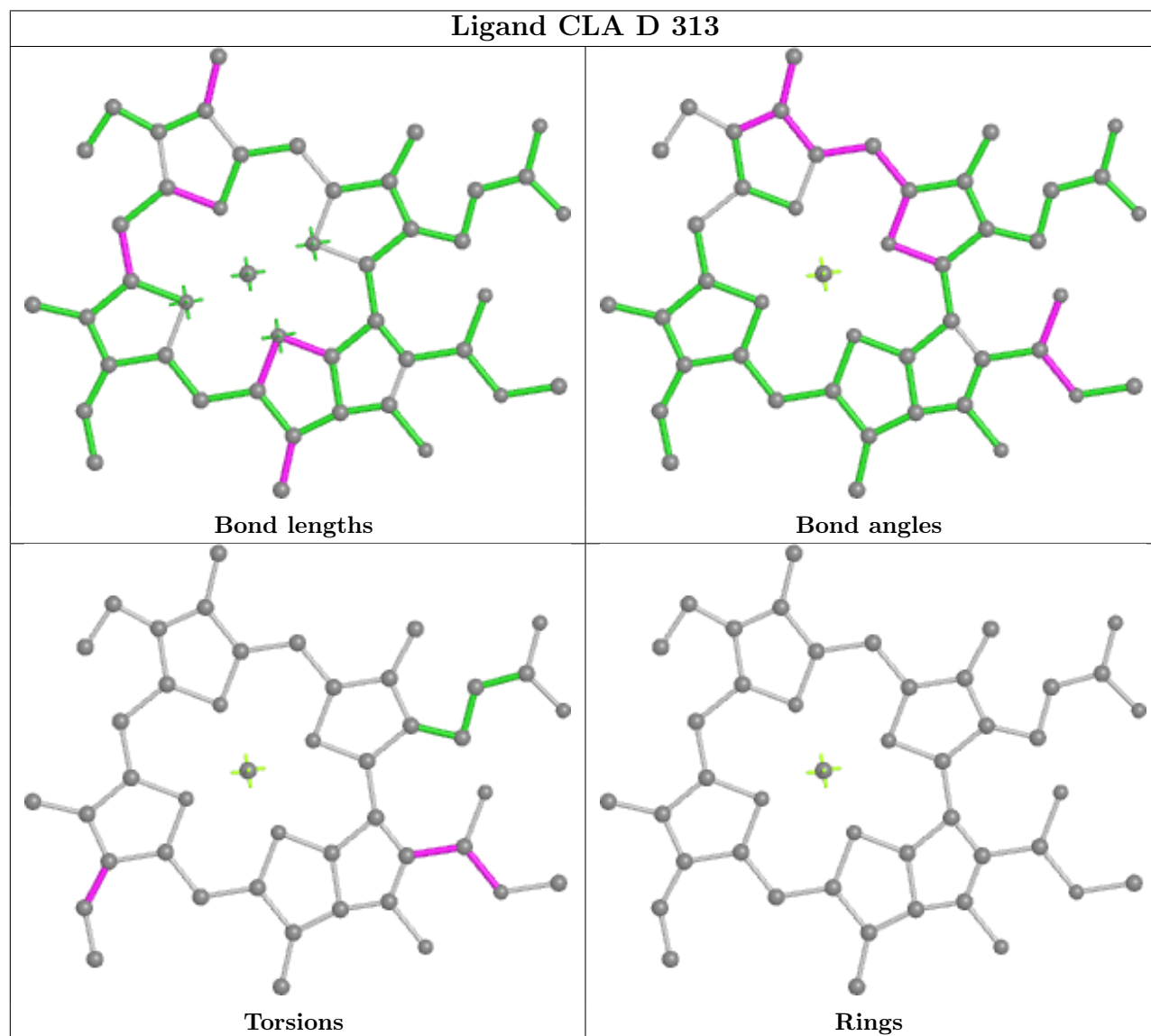
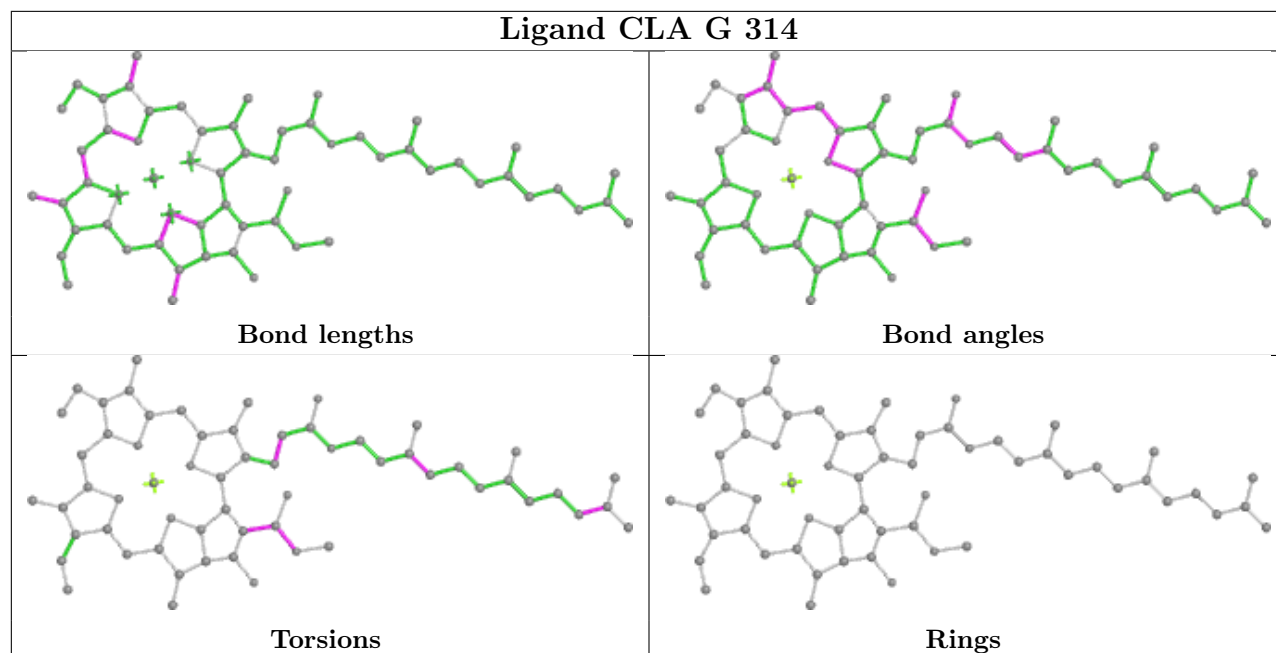


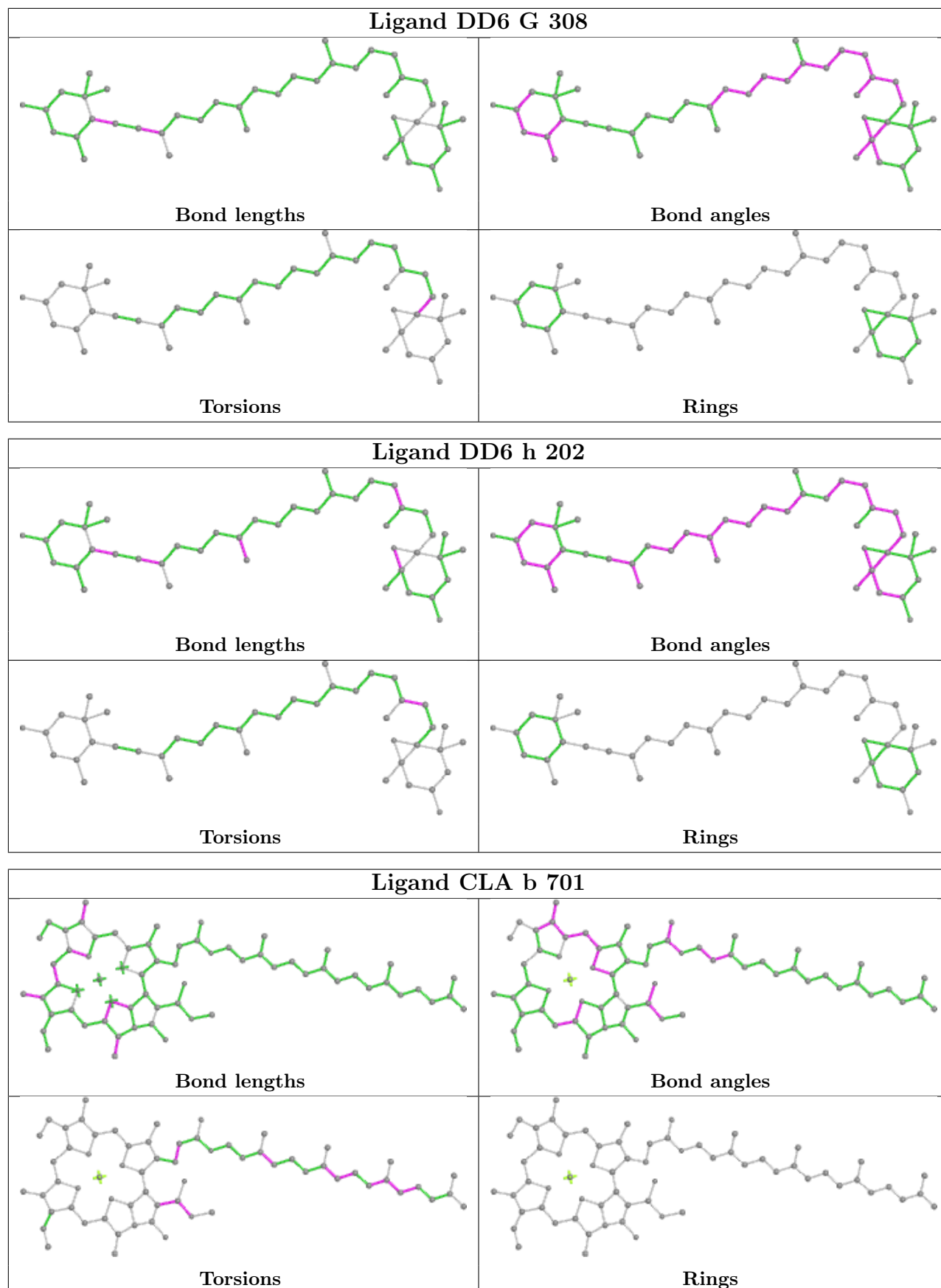


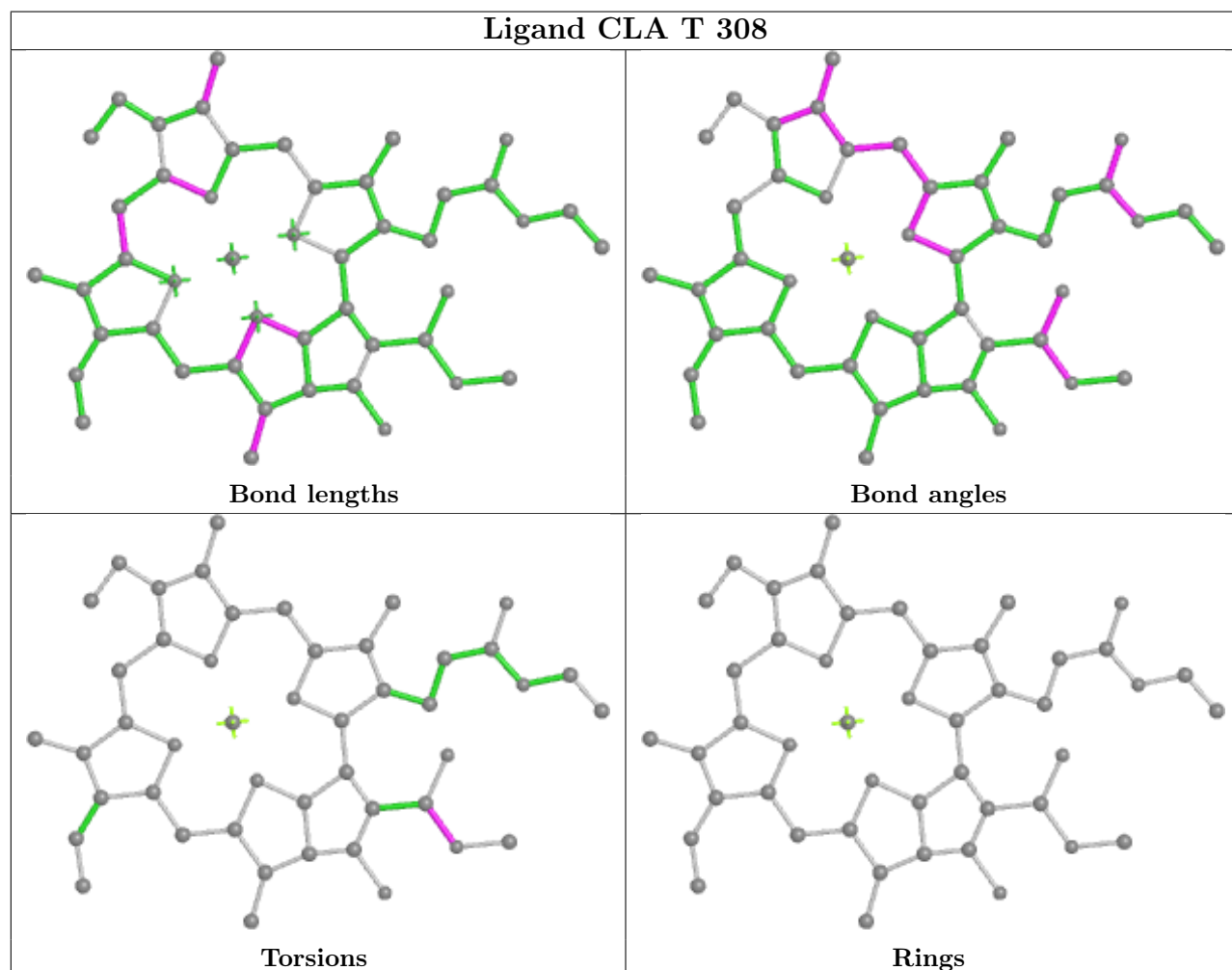
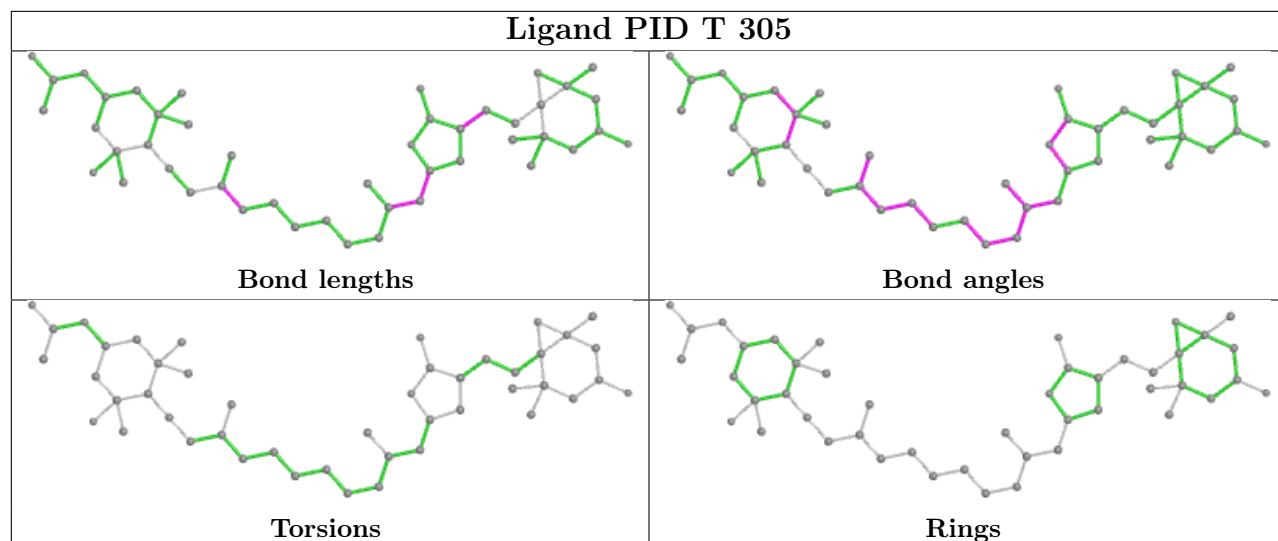


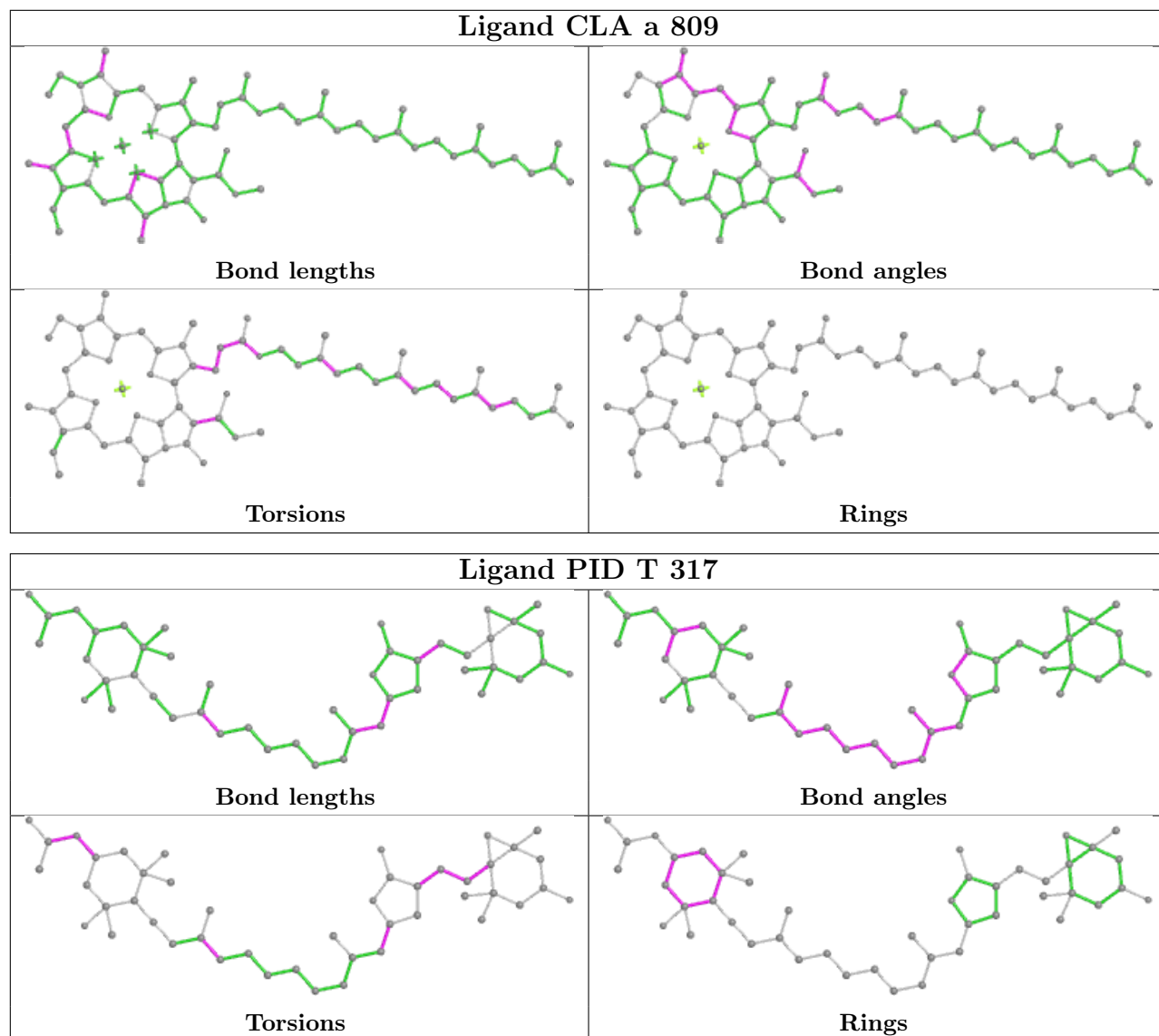


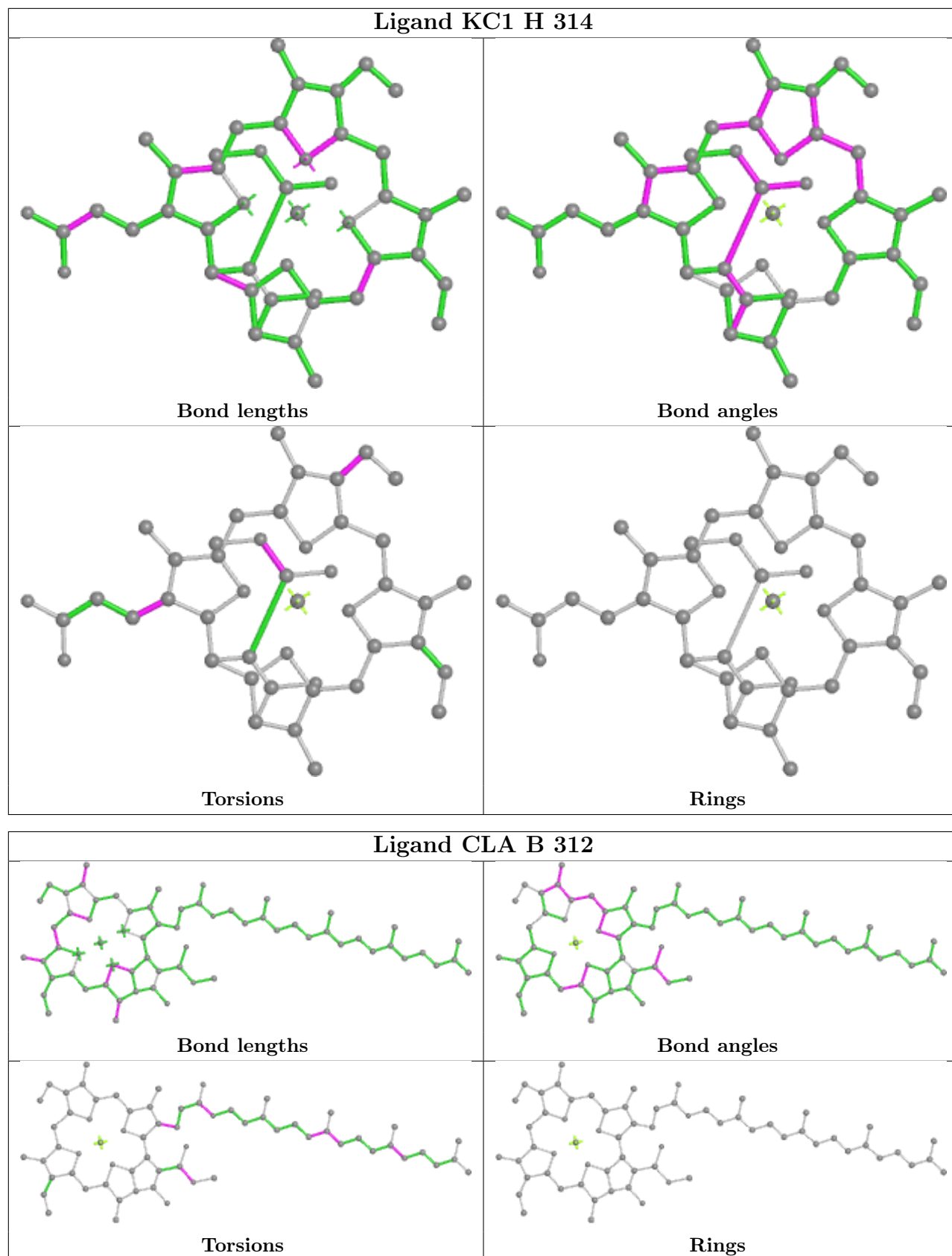


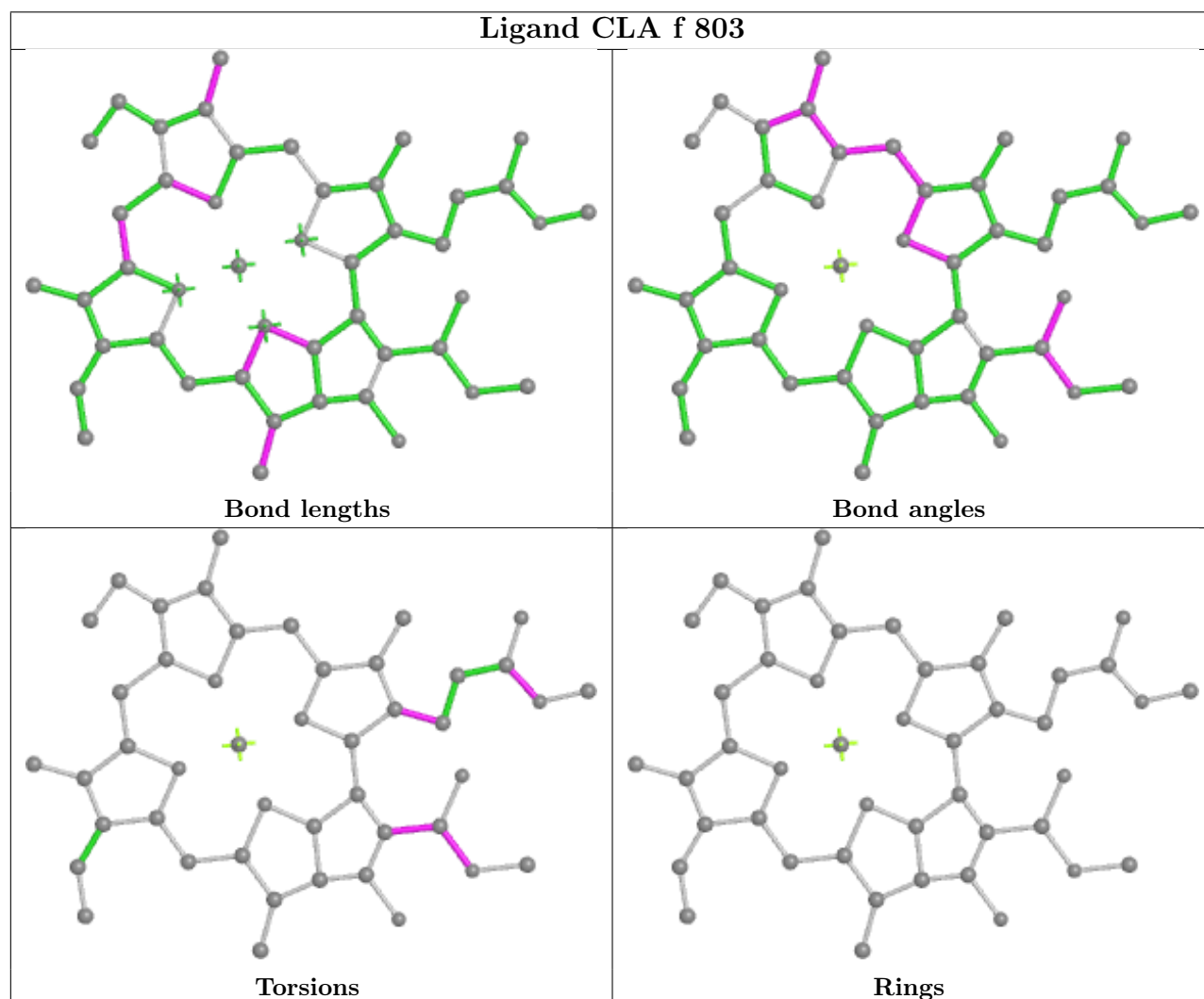
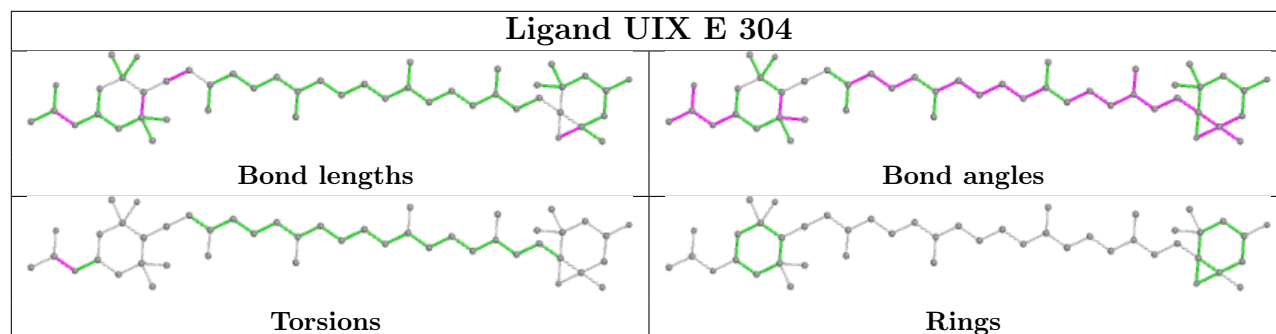




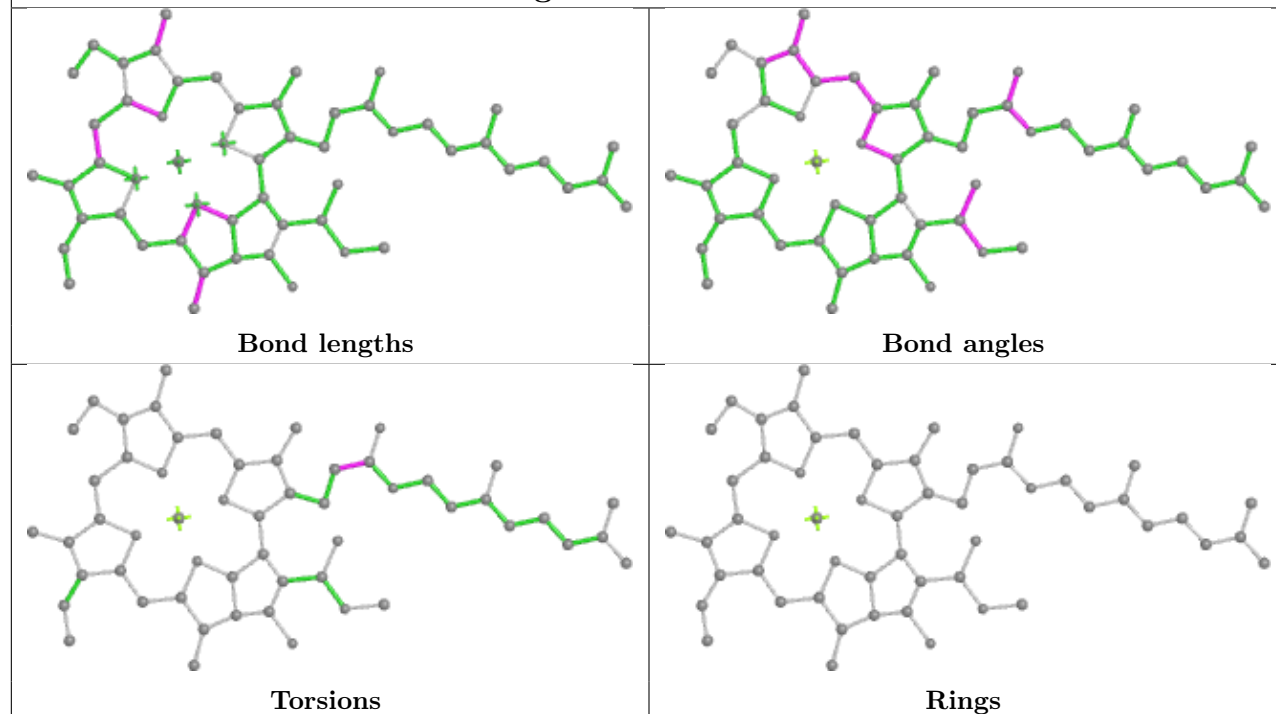




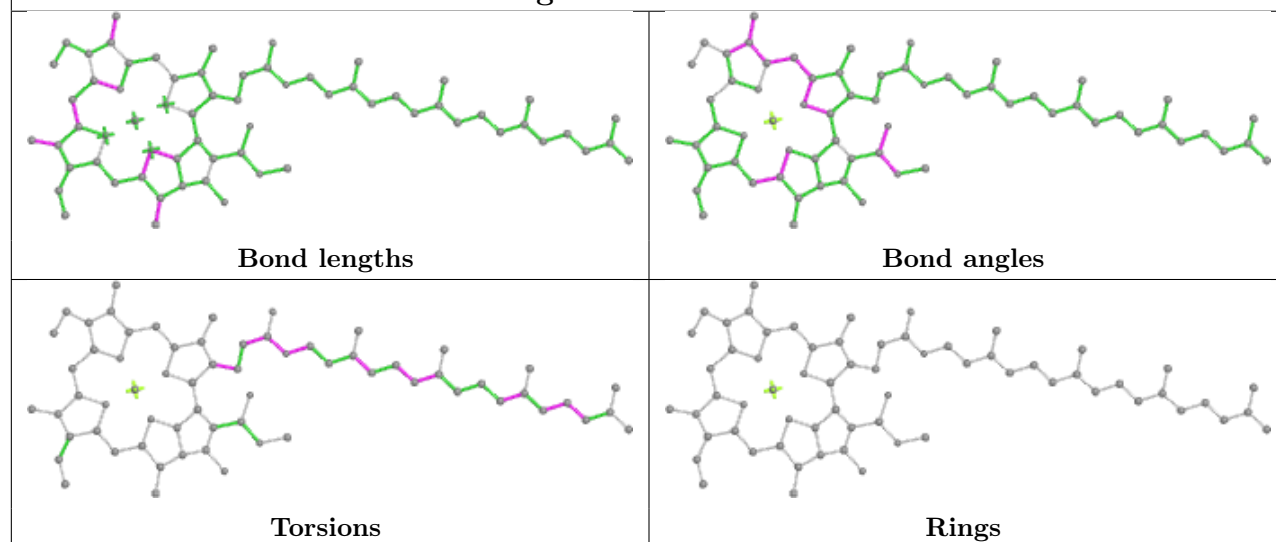


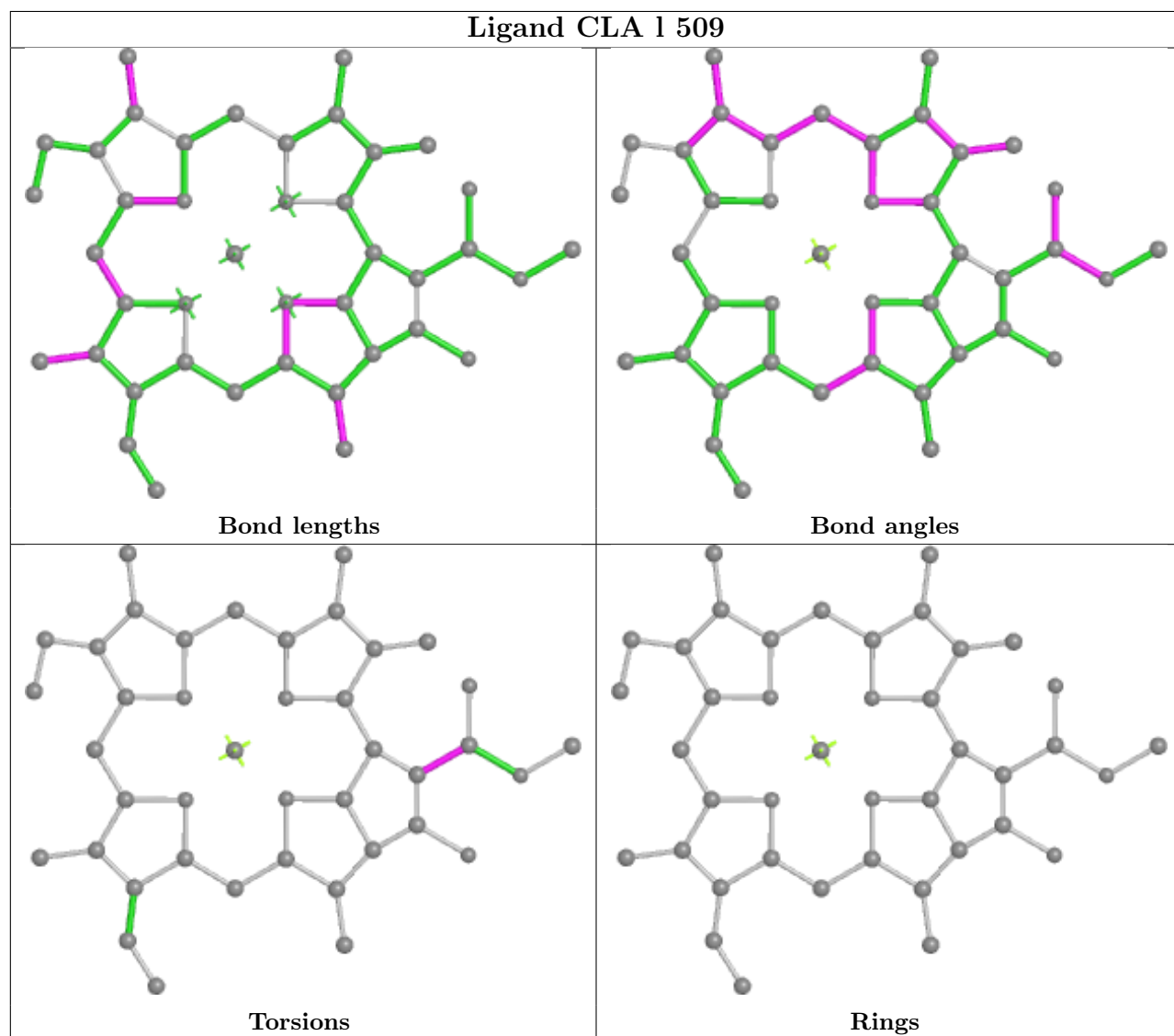
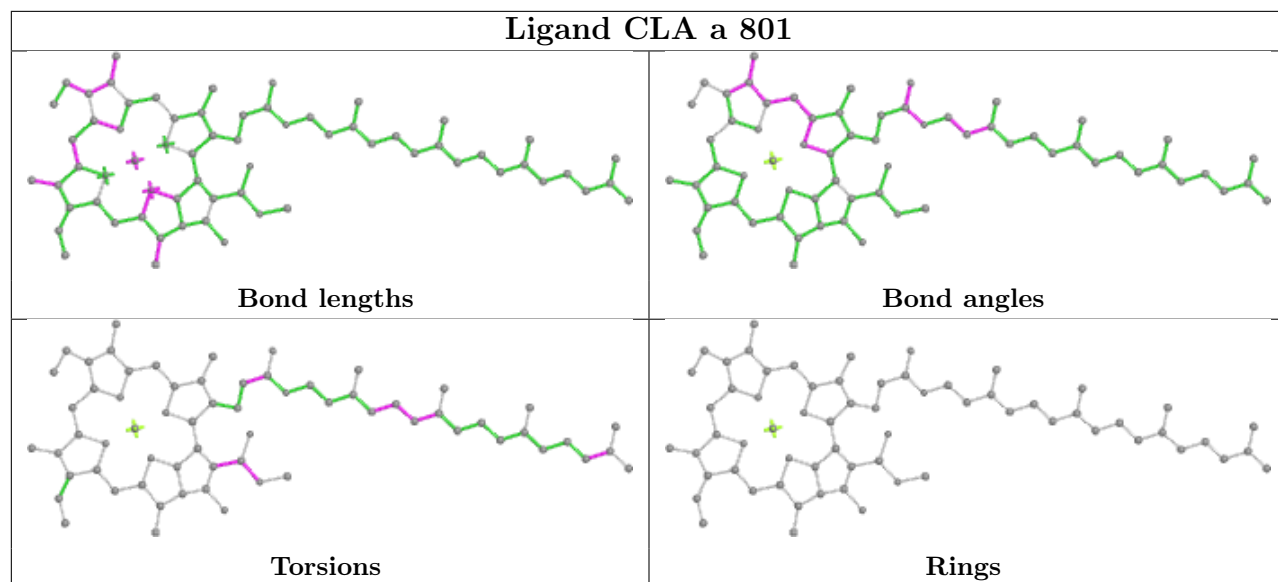


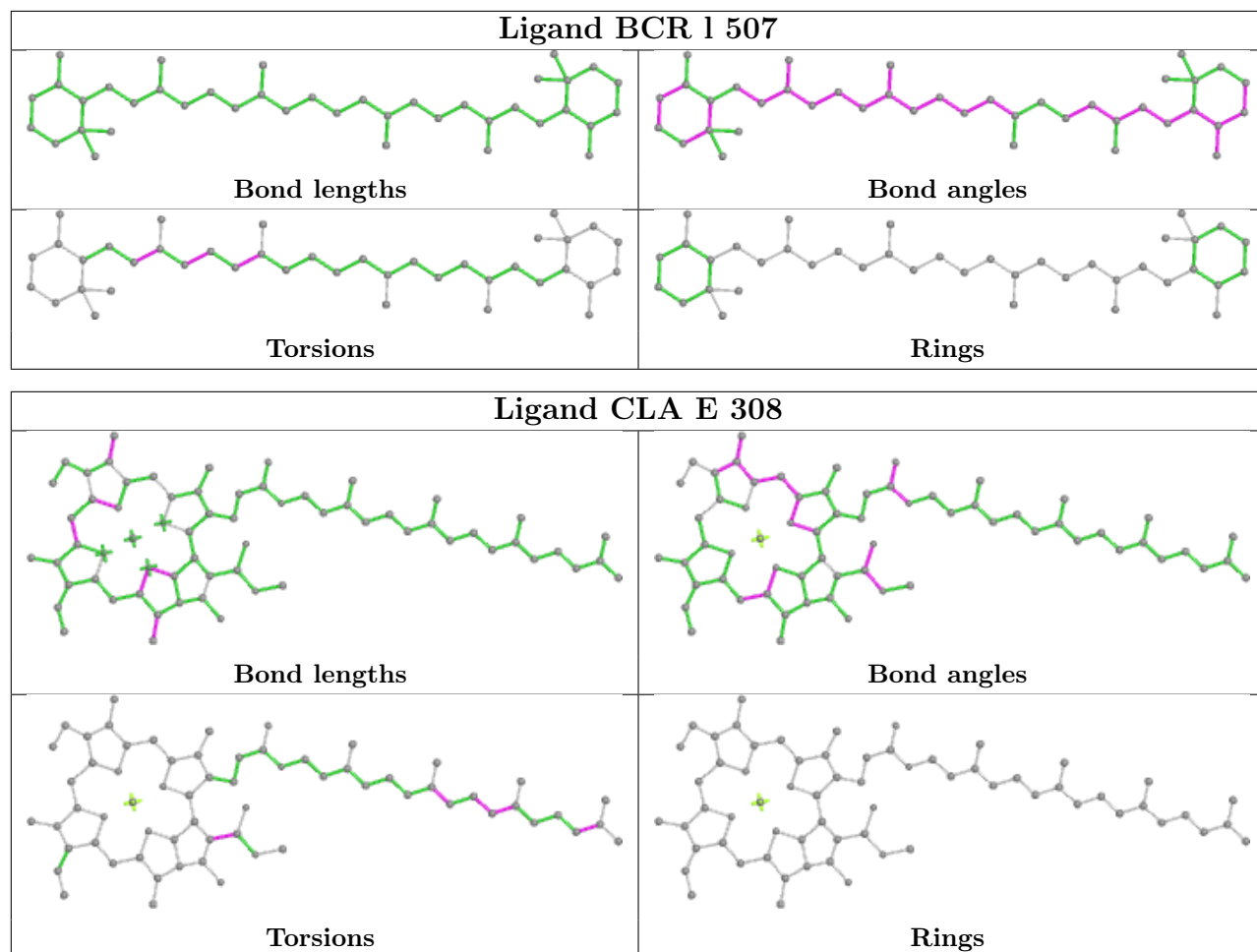
Ligand CLA L 309

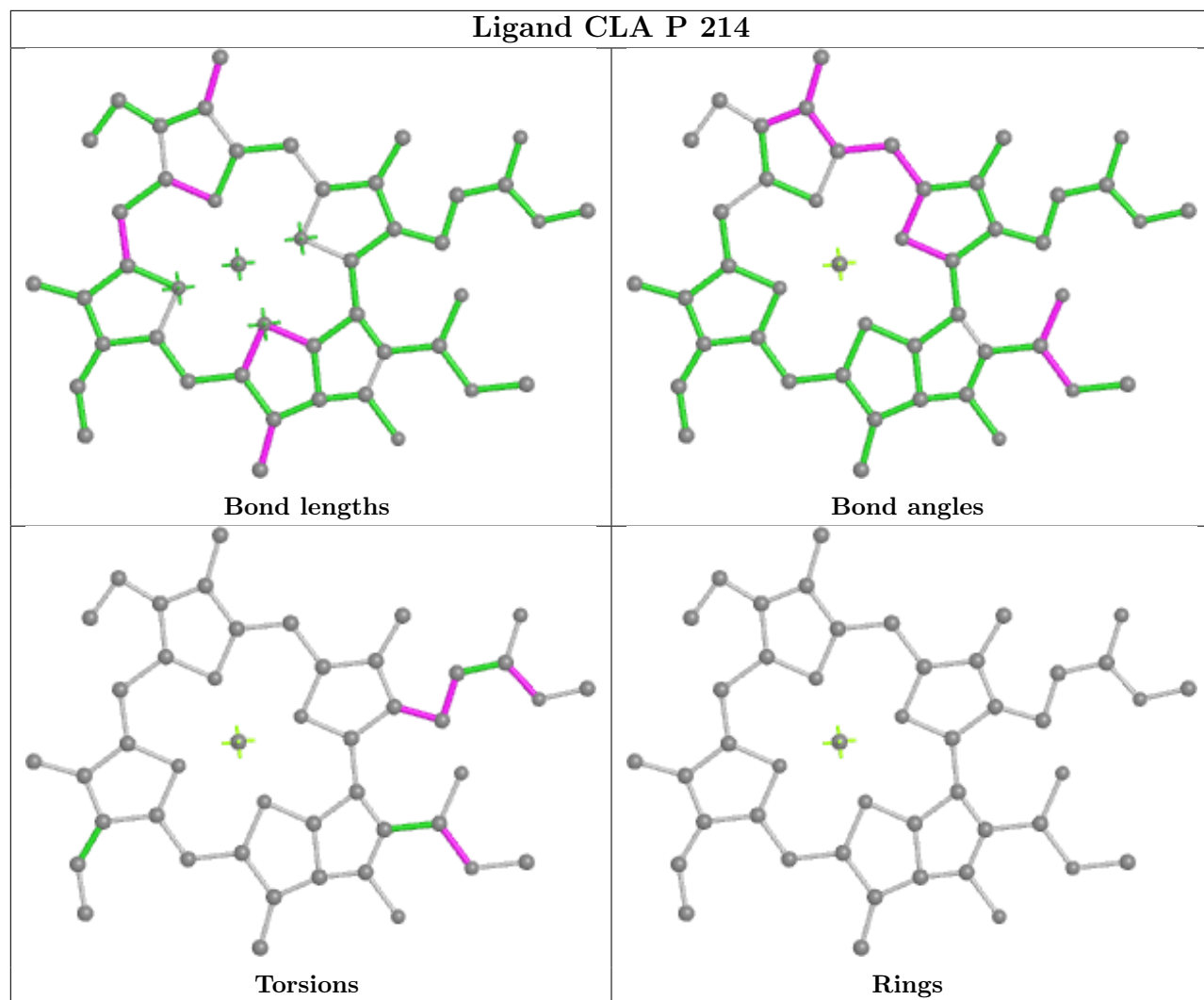


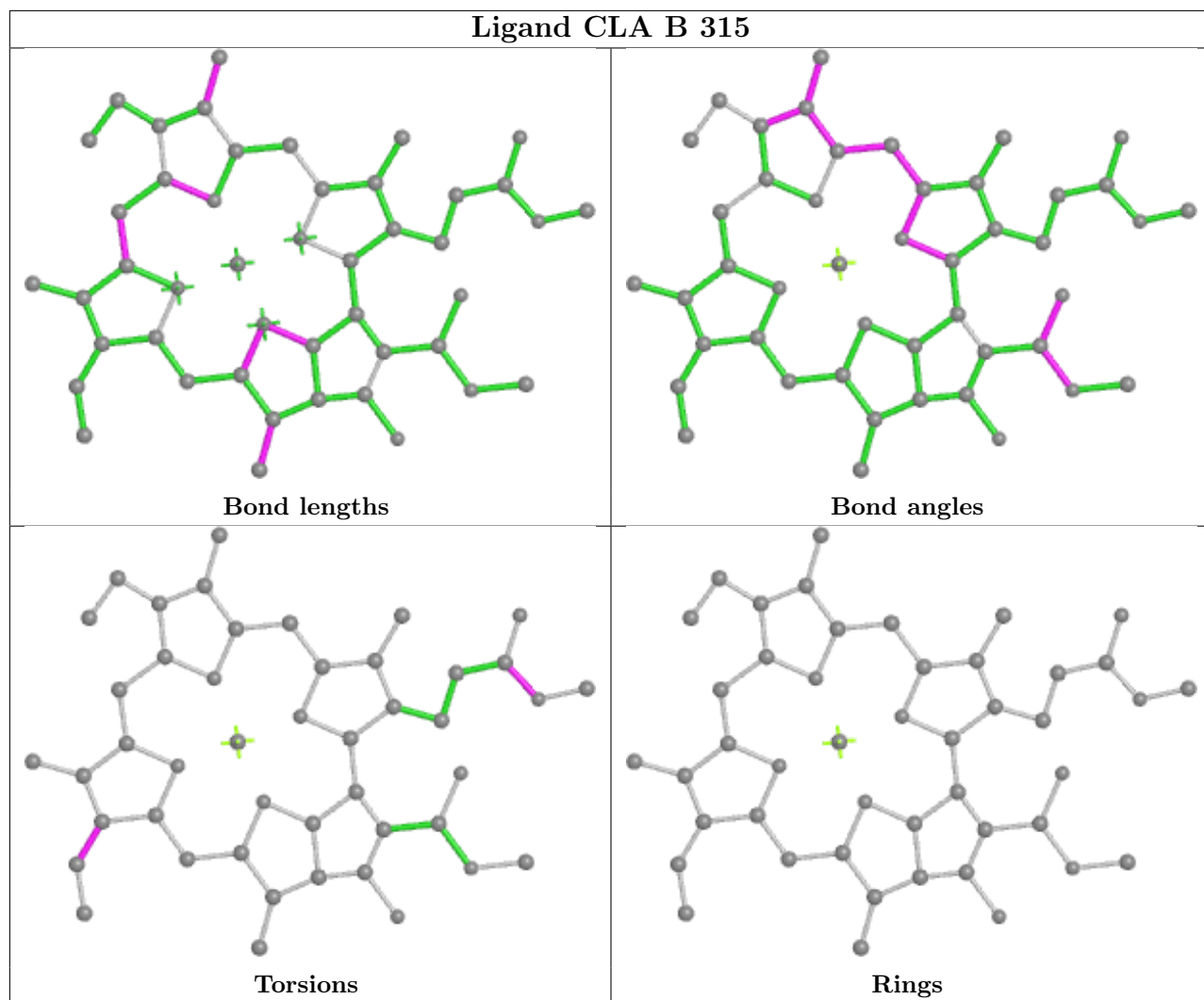
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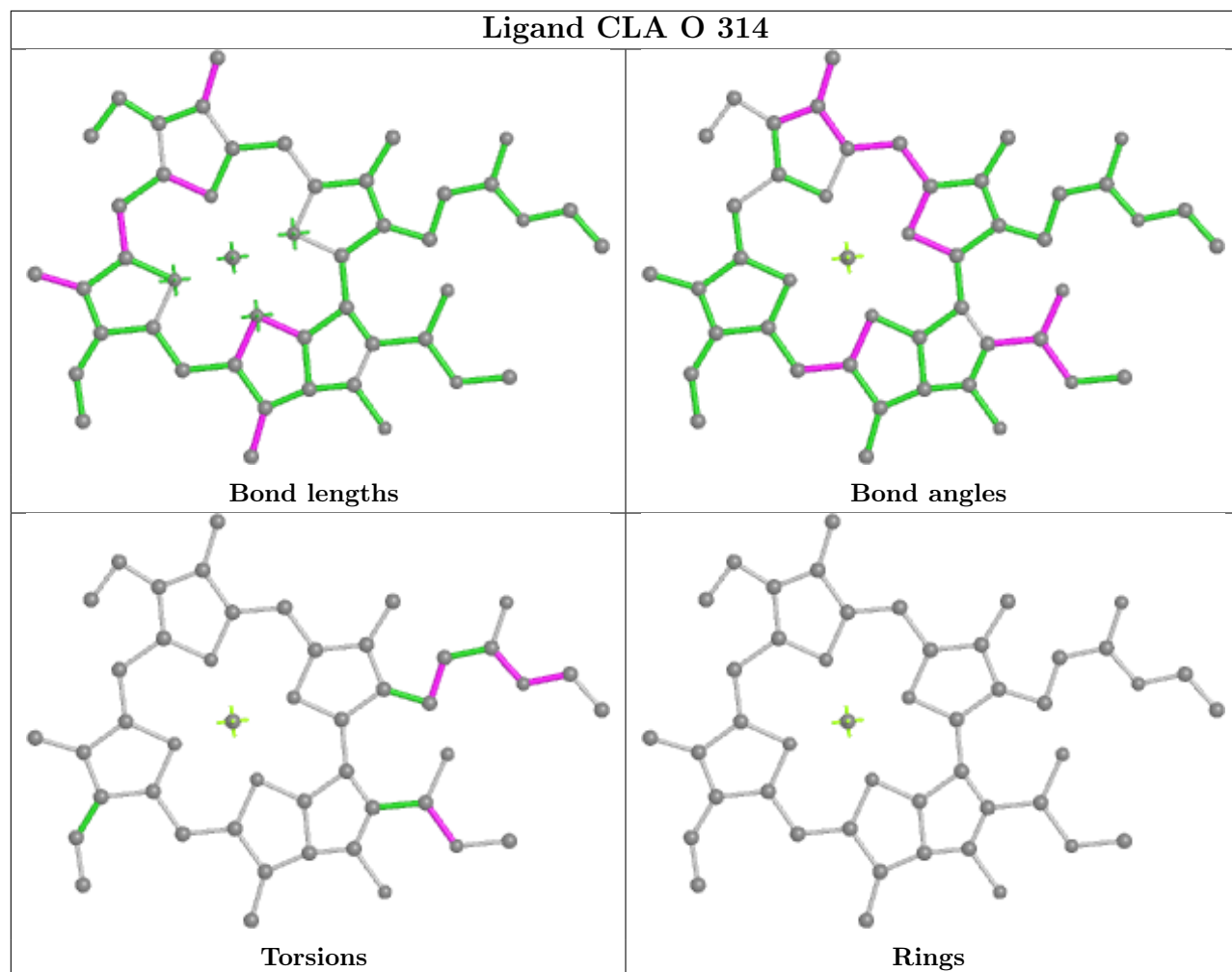


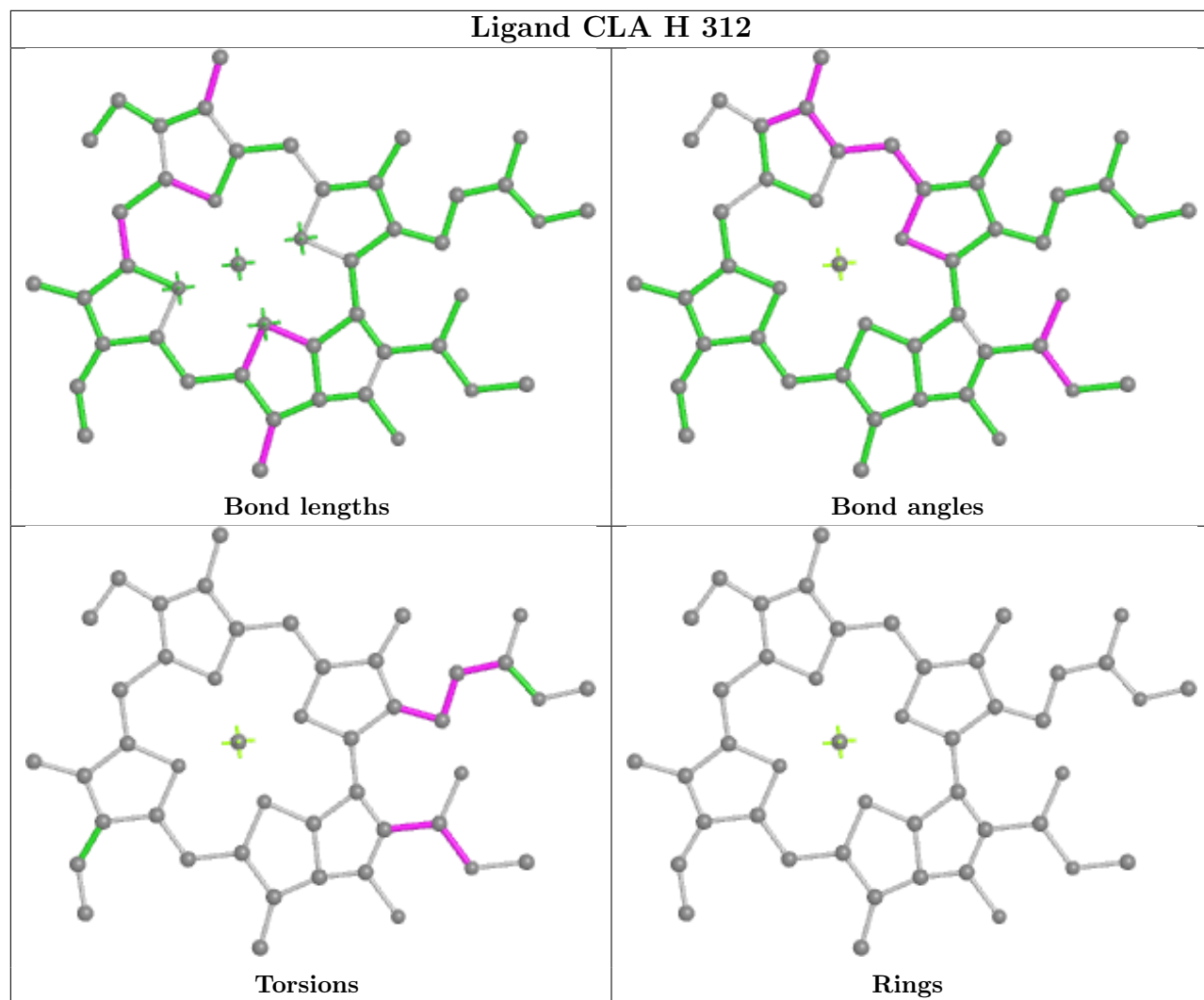


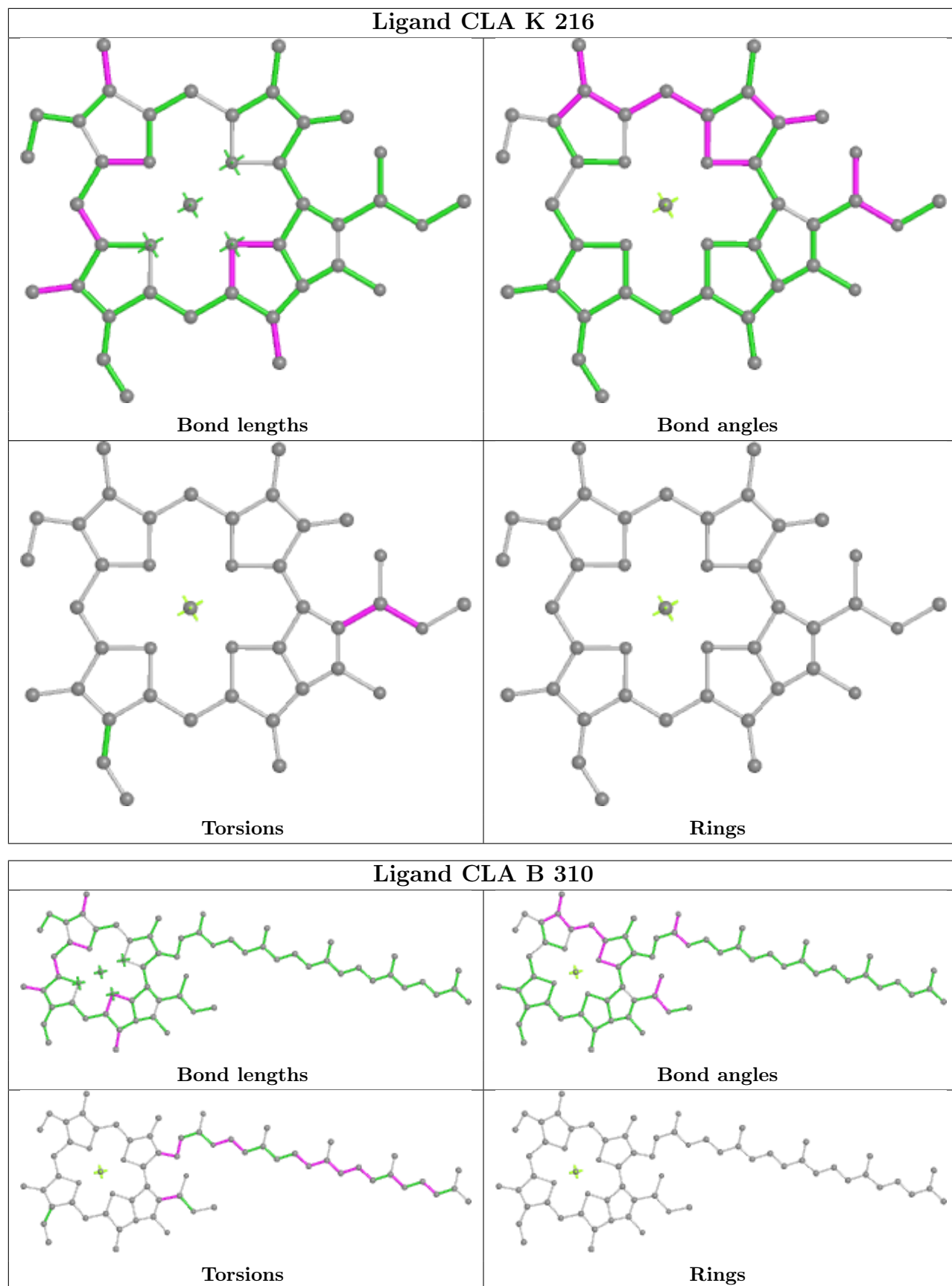


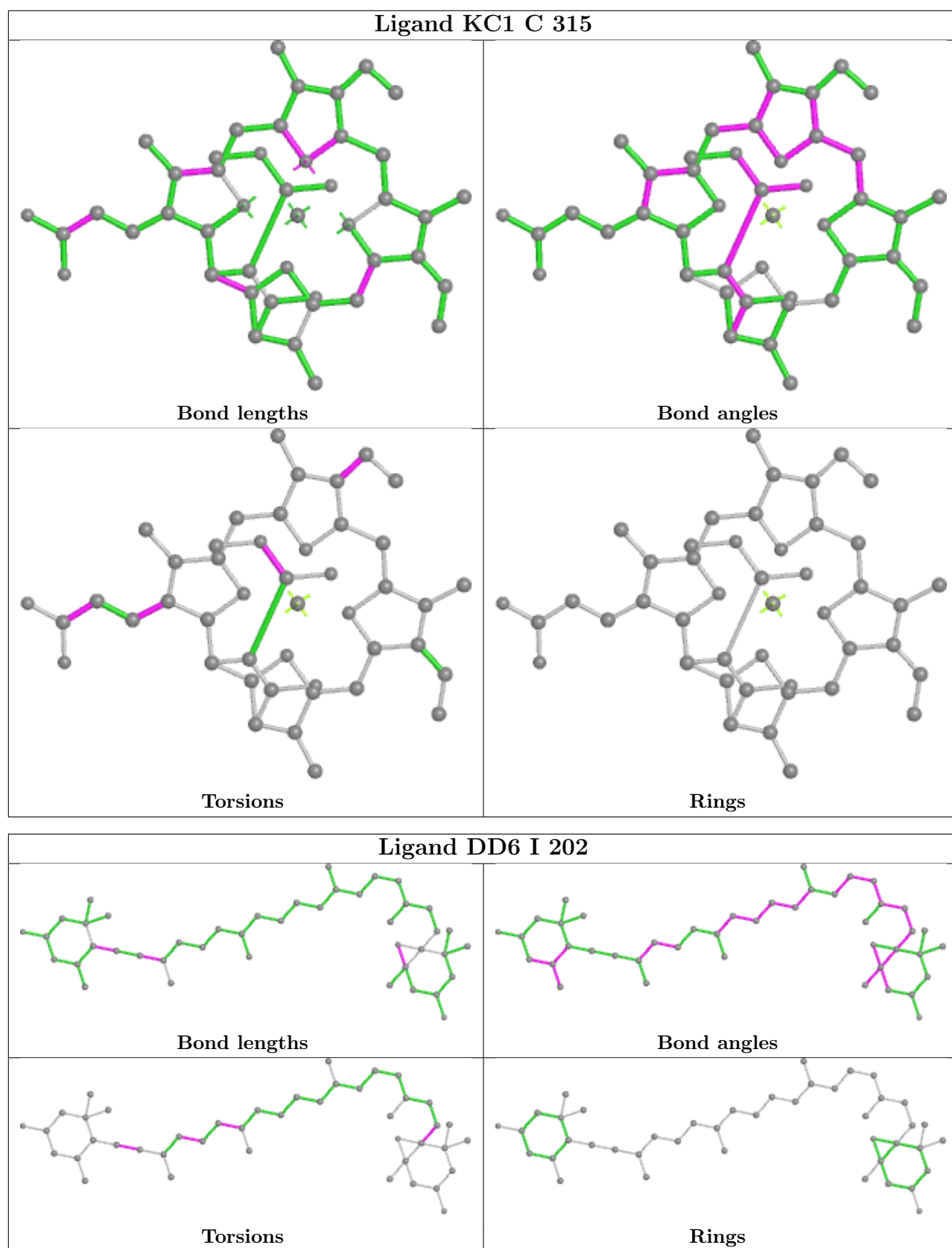


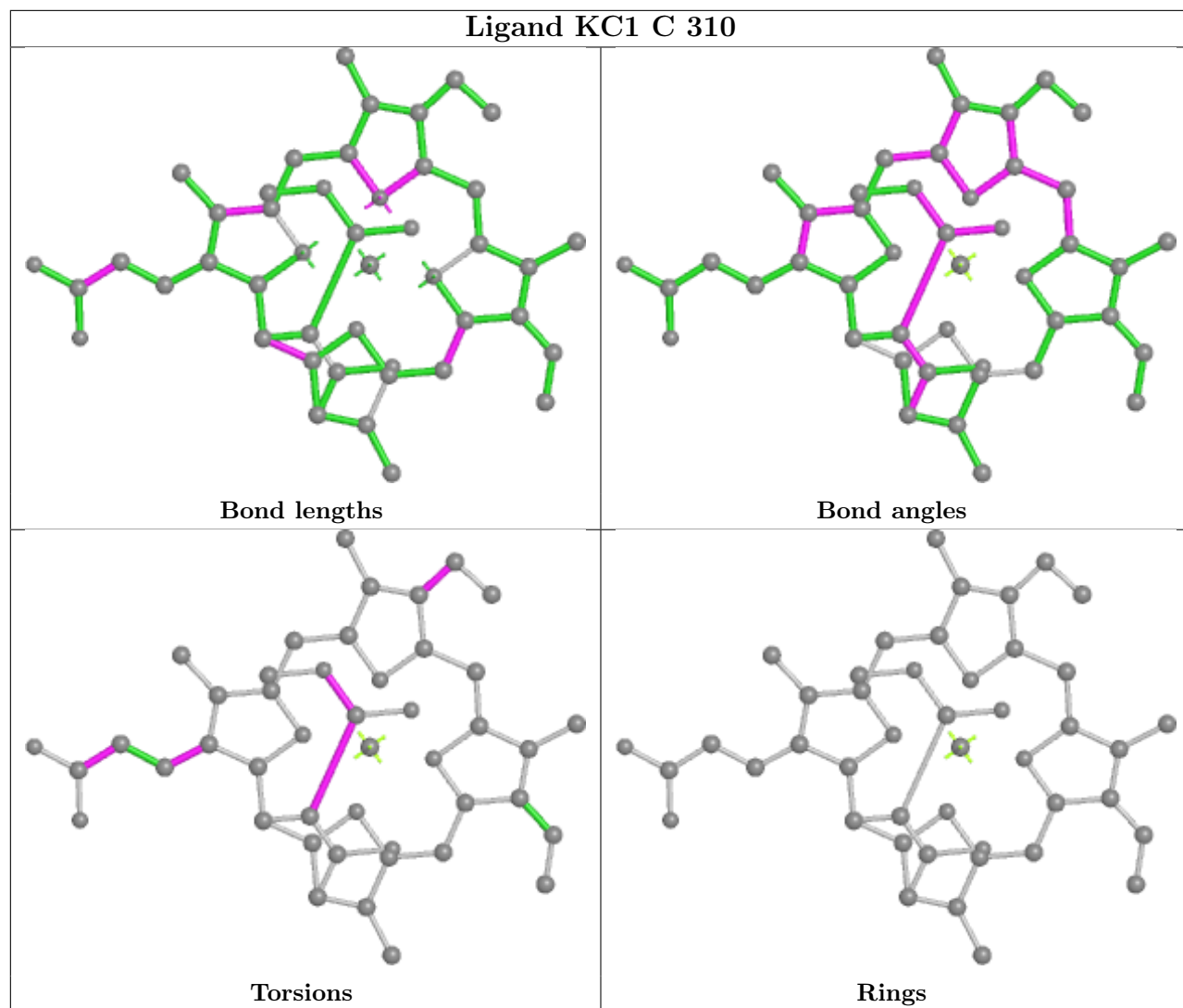


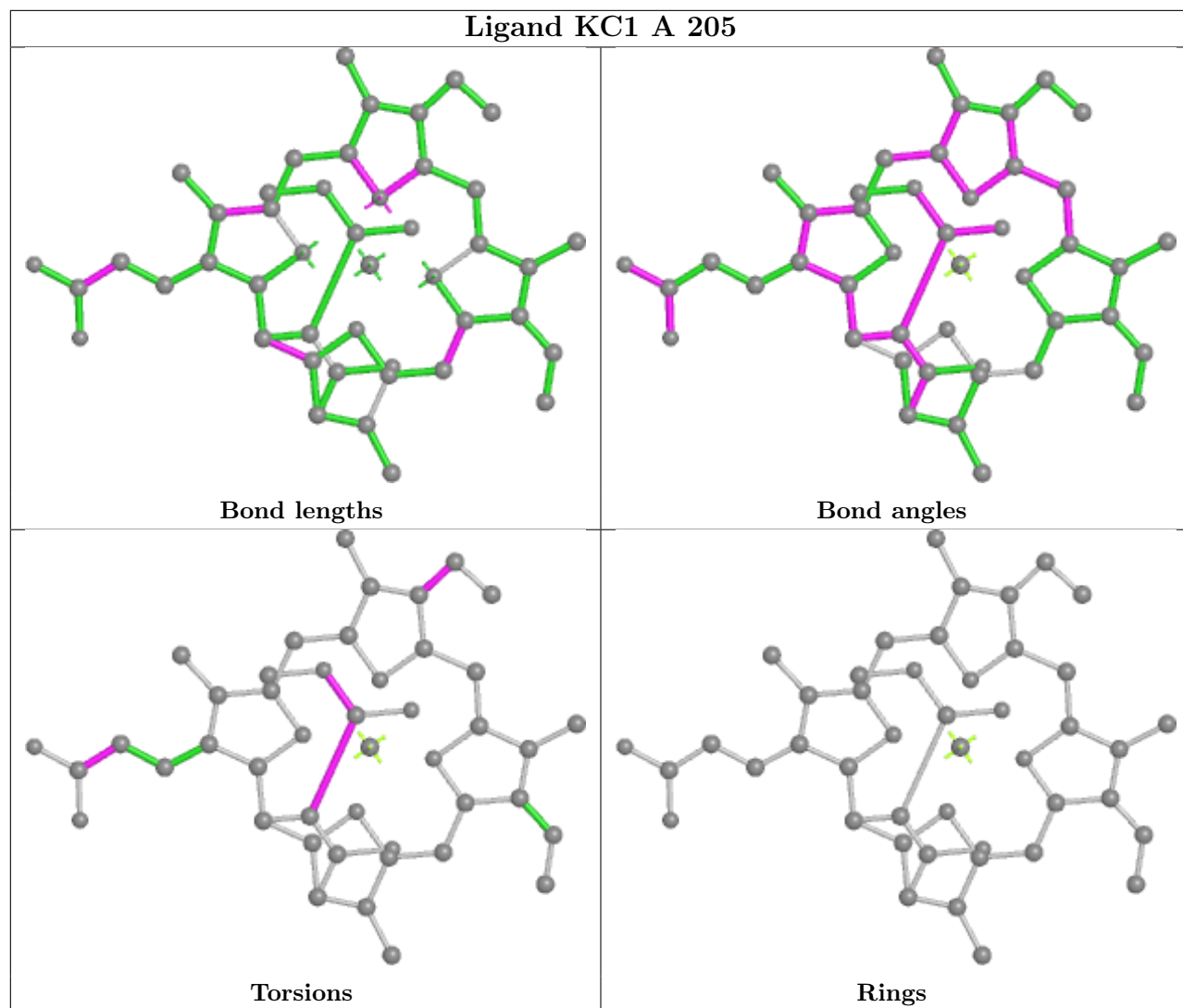


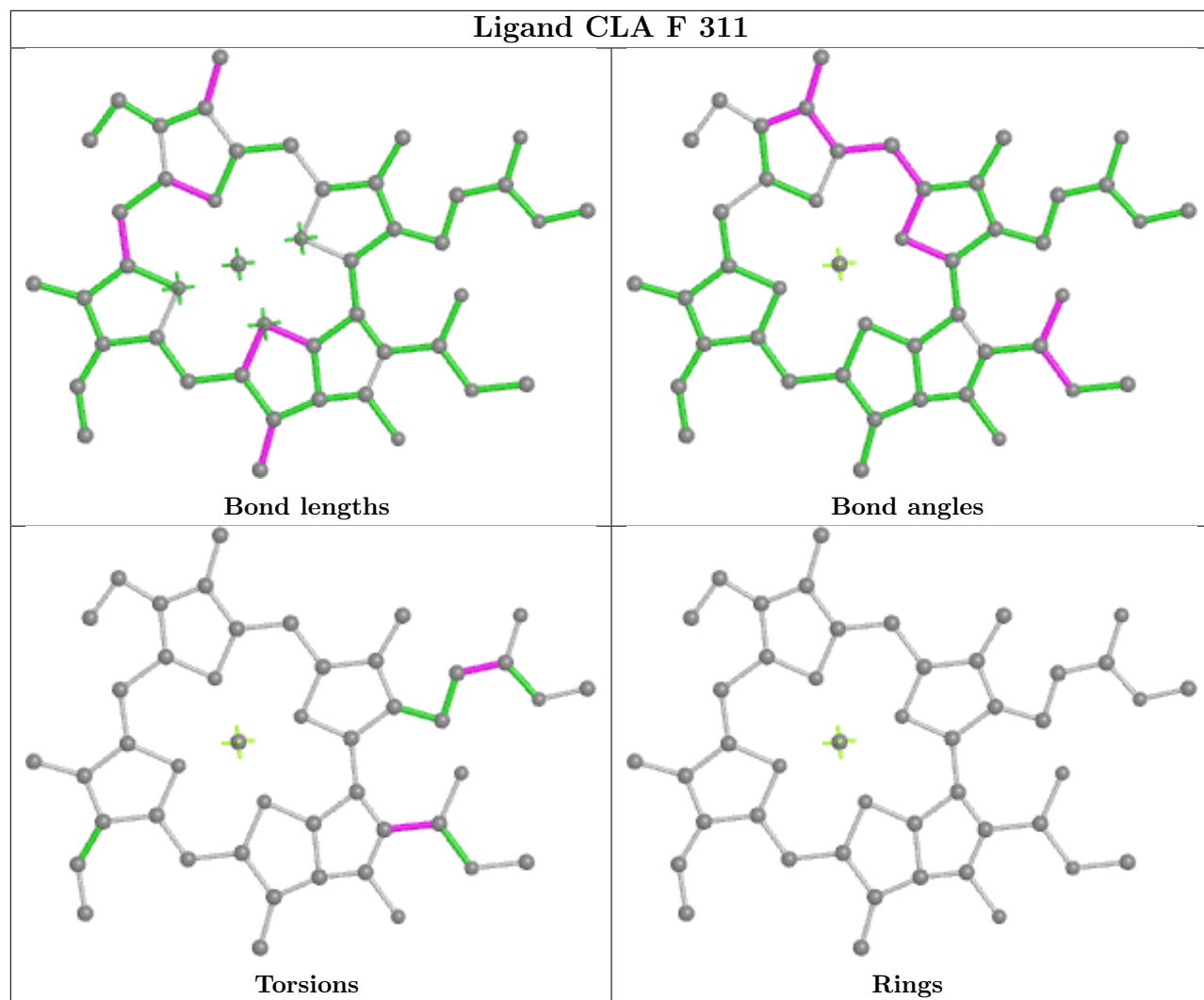


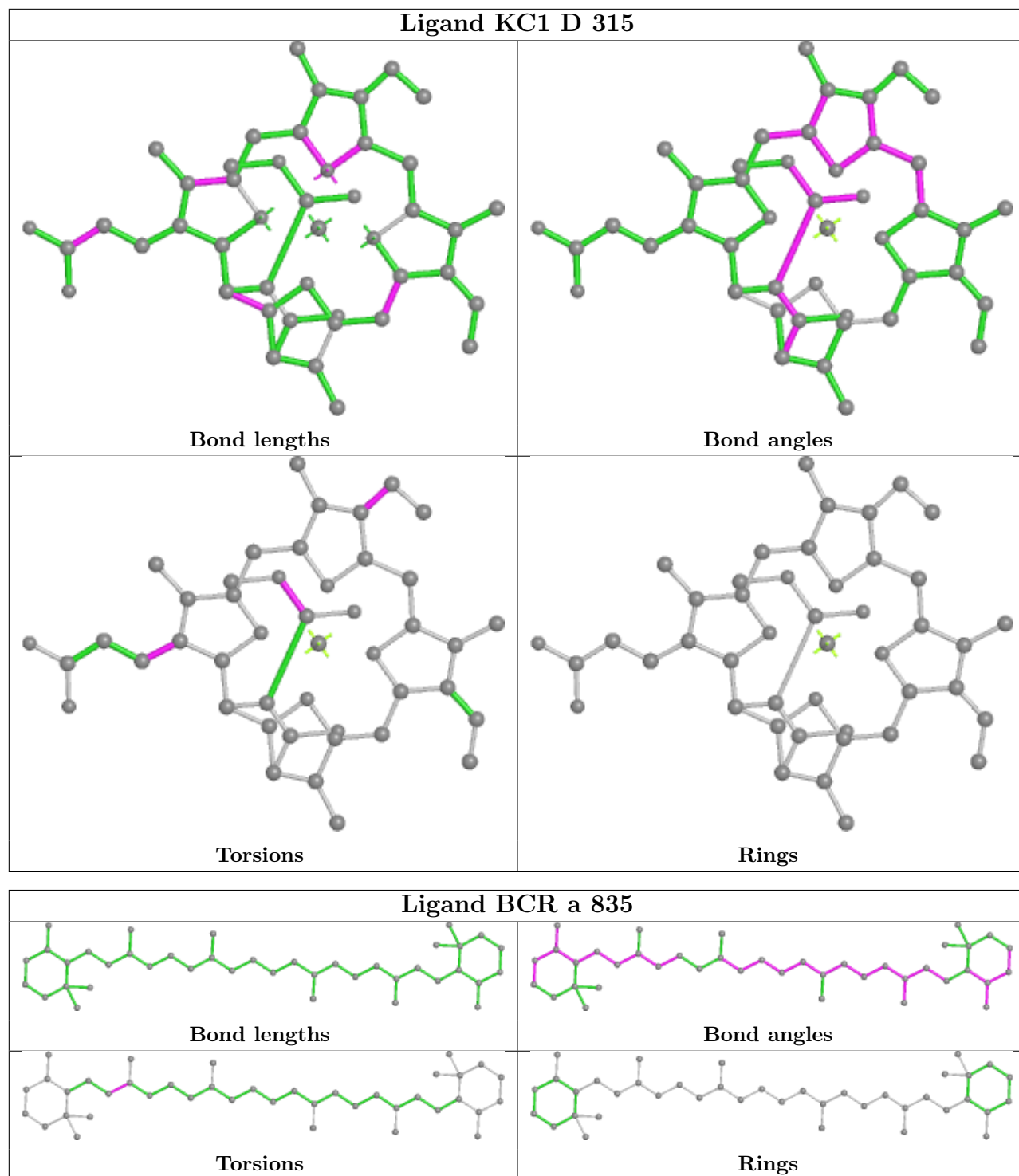


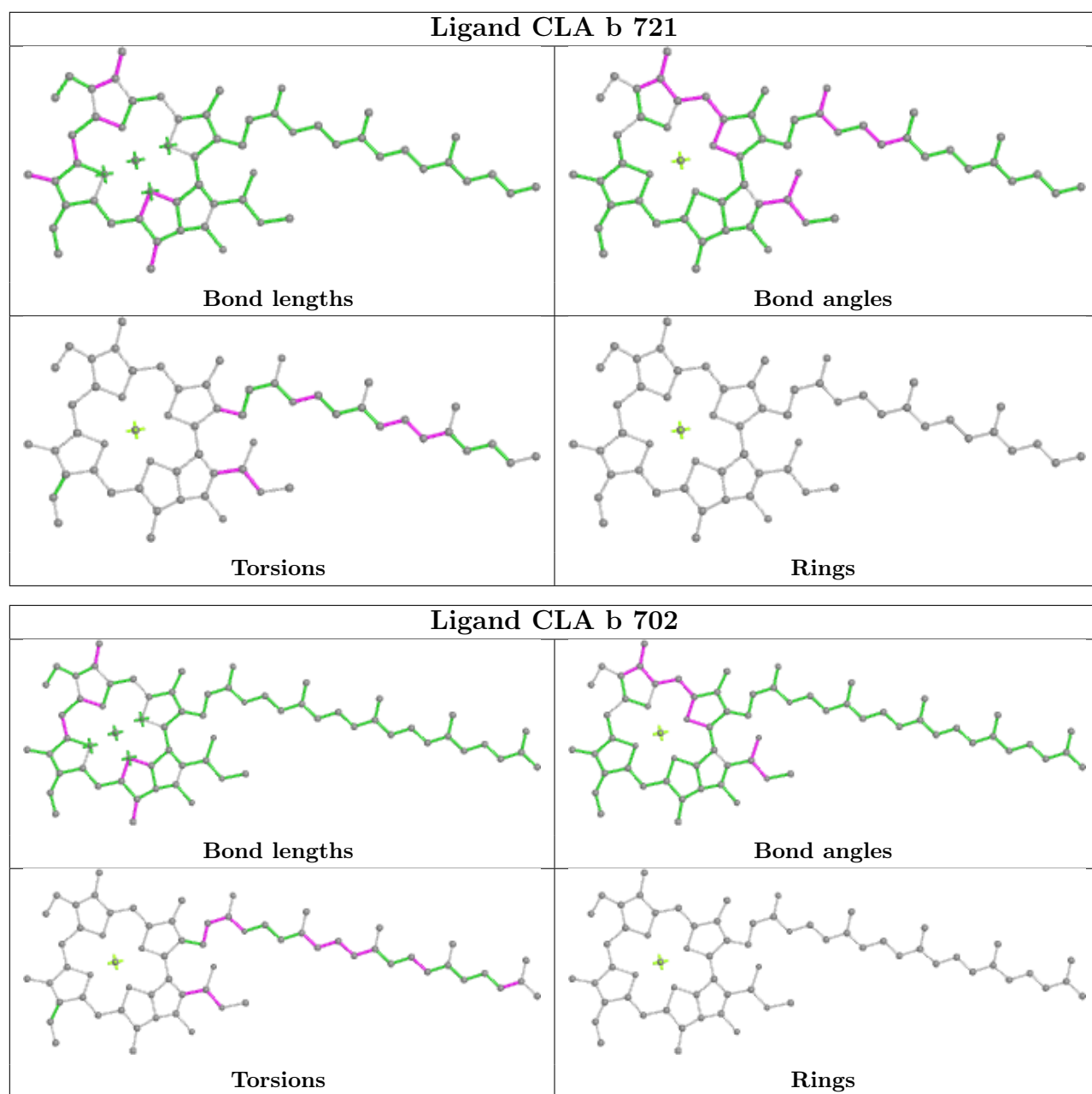


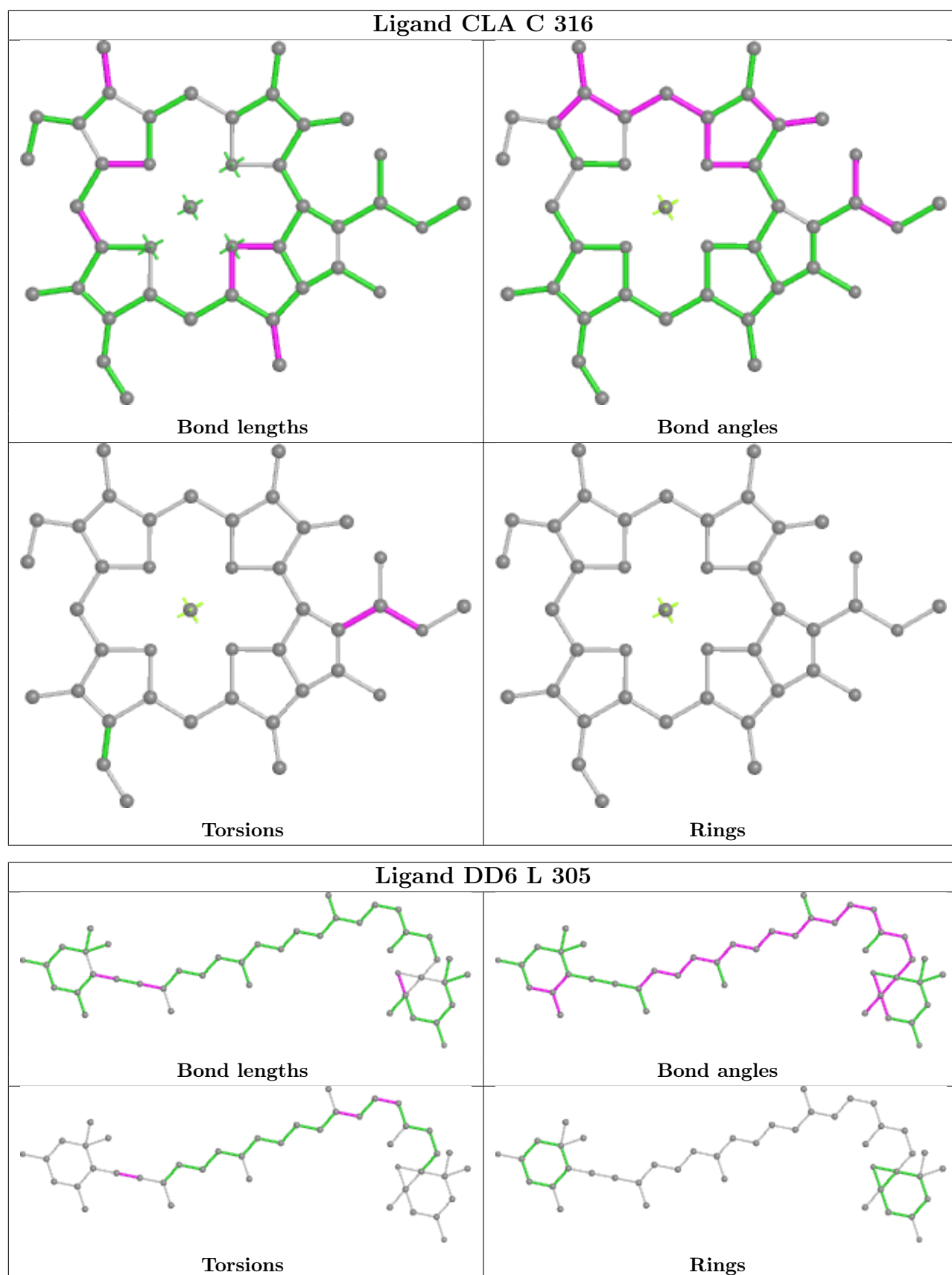


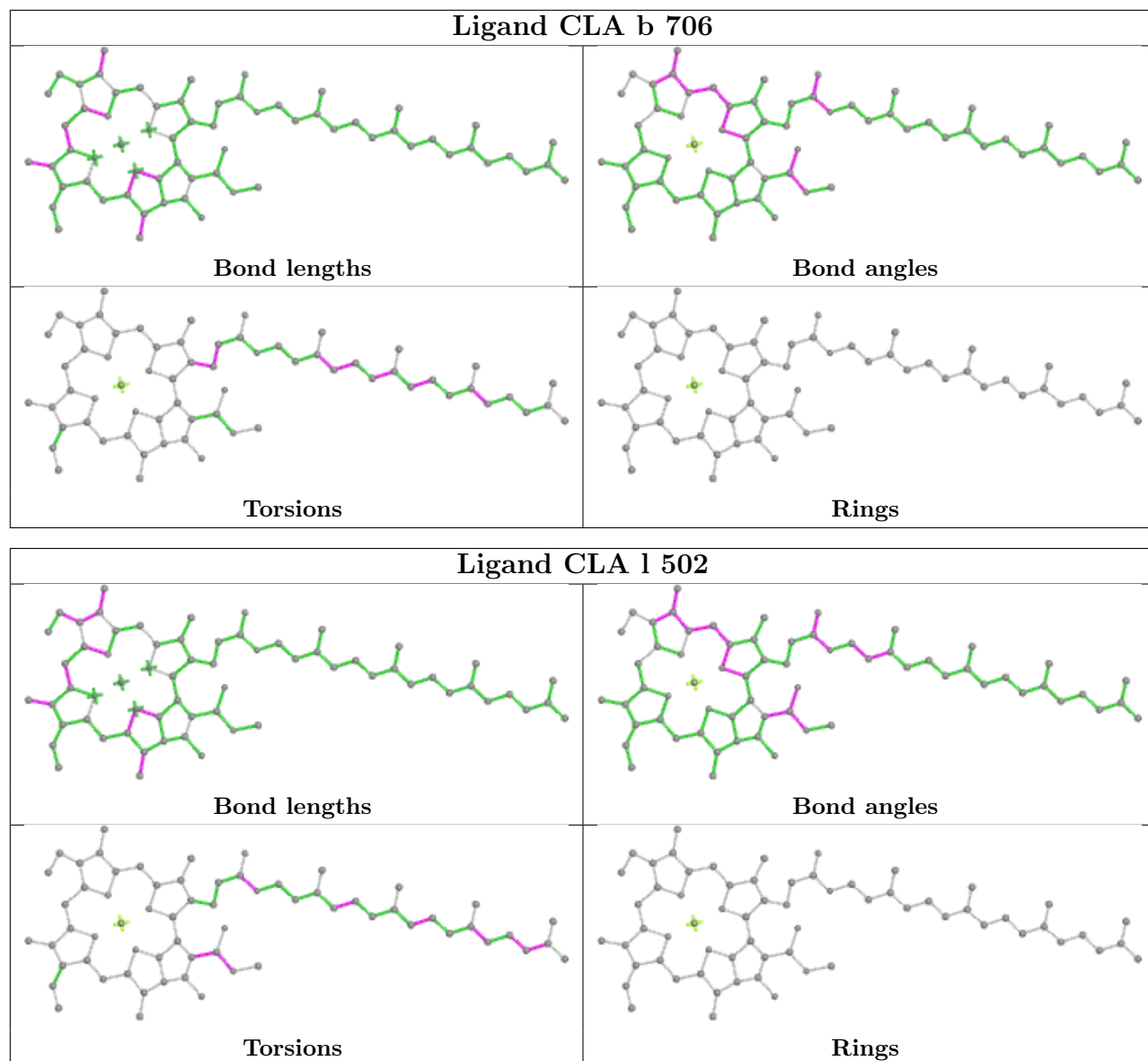


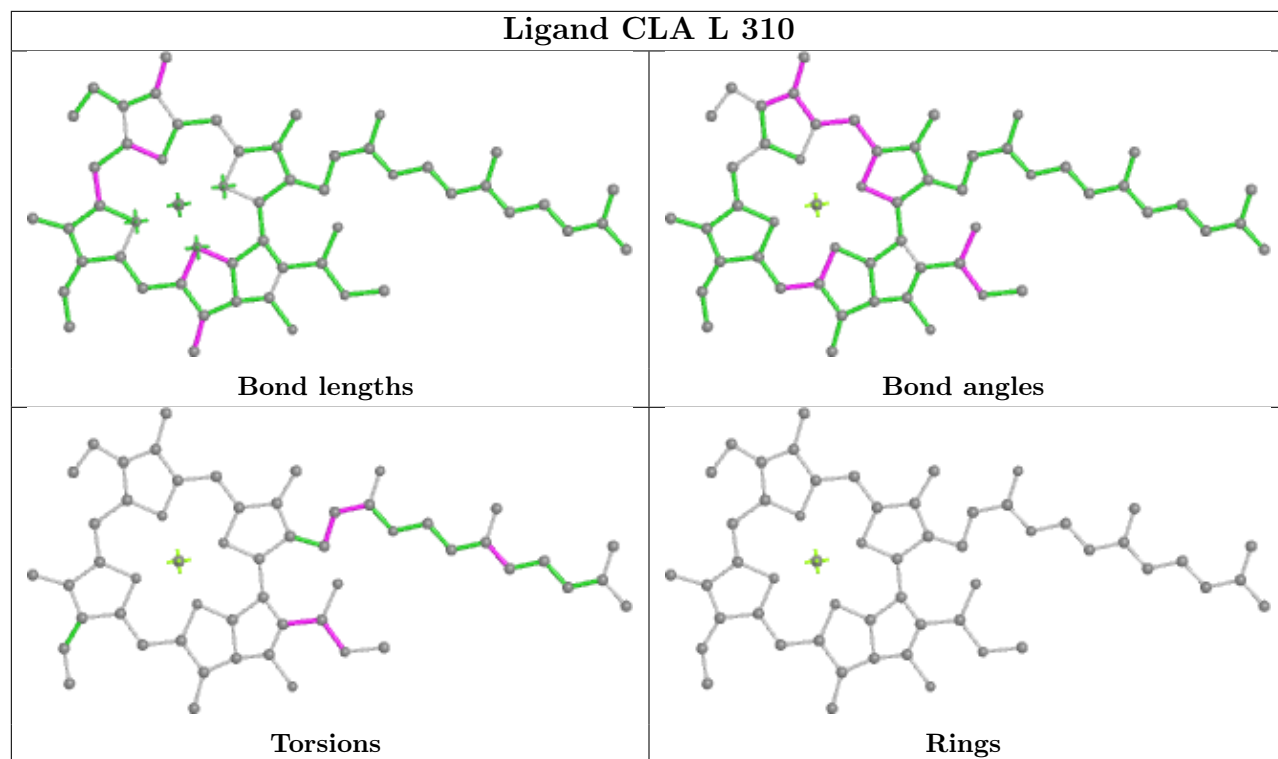


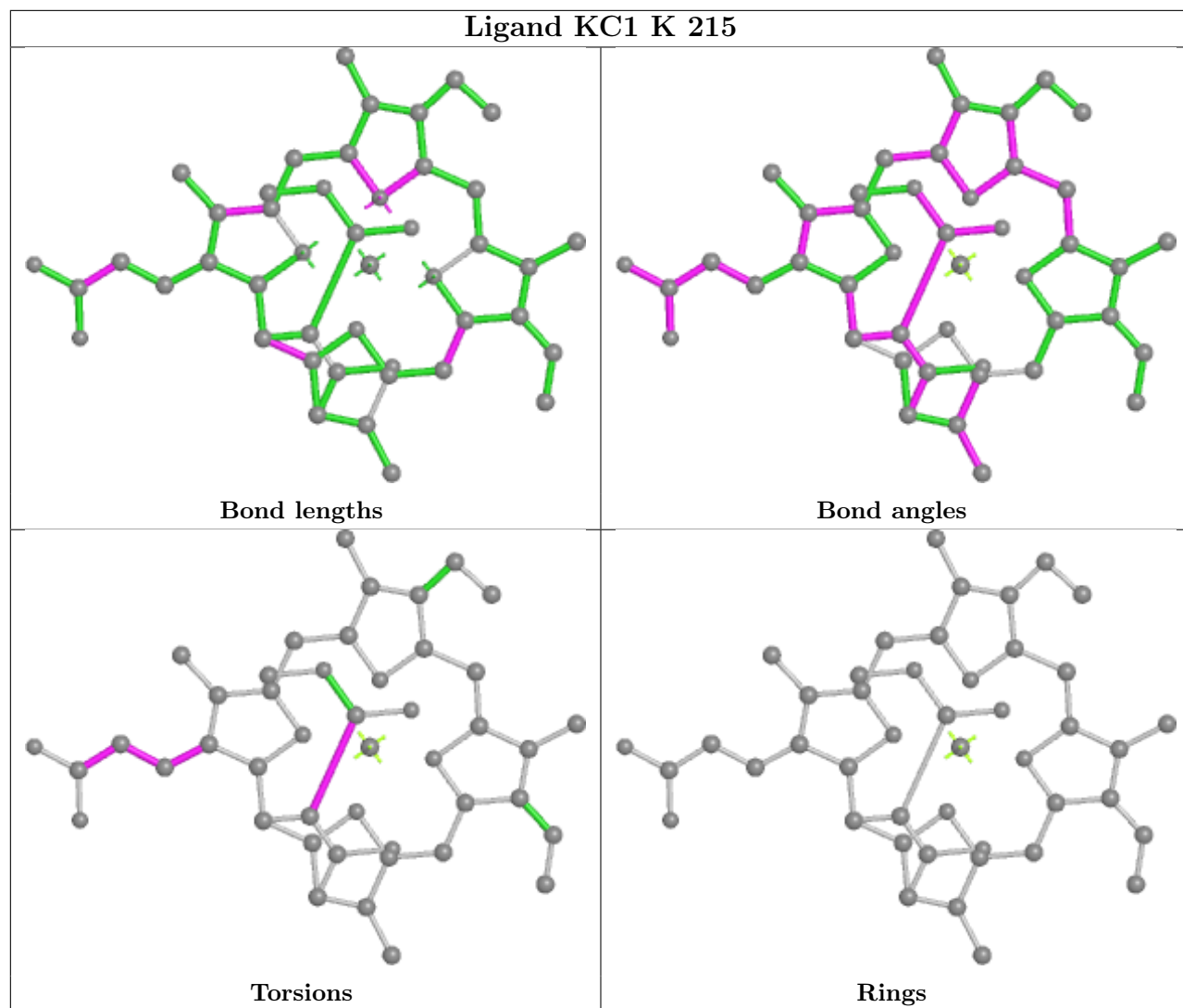


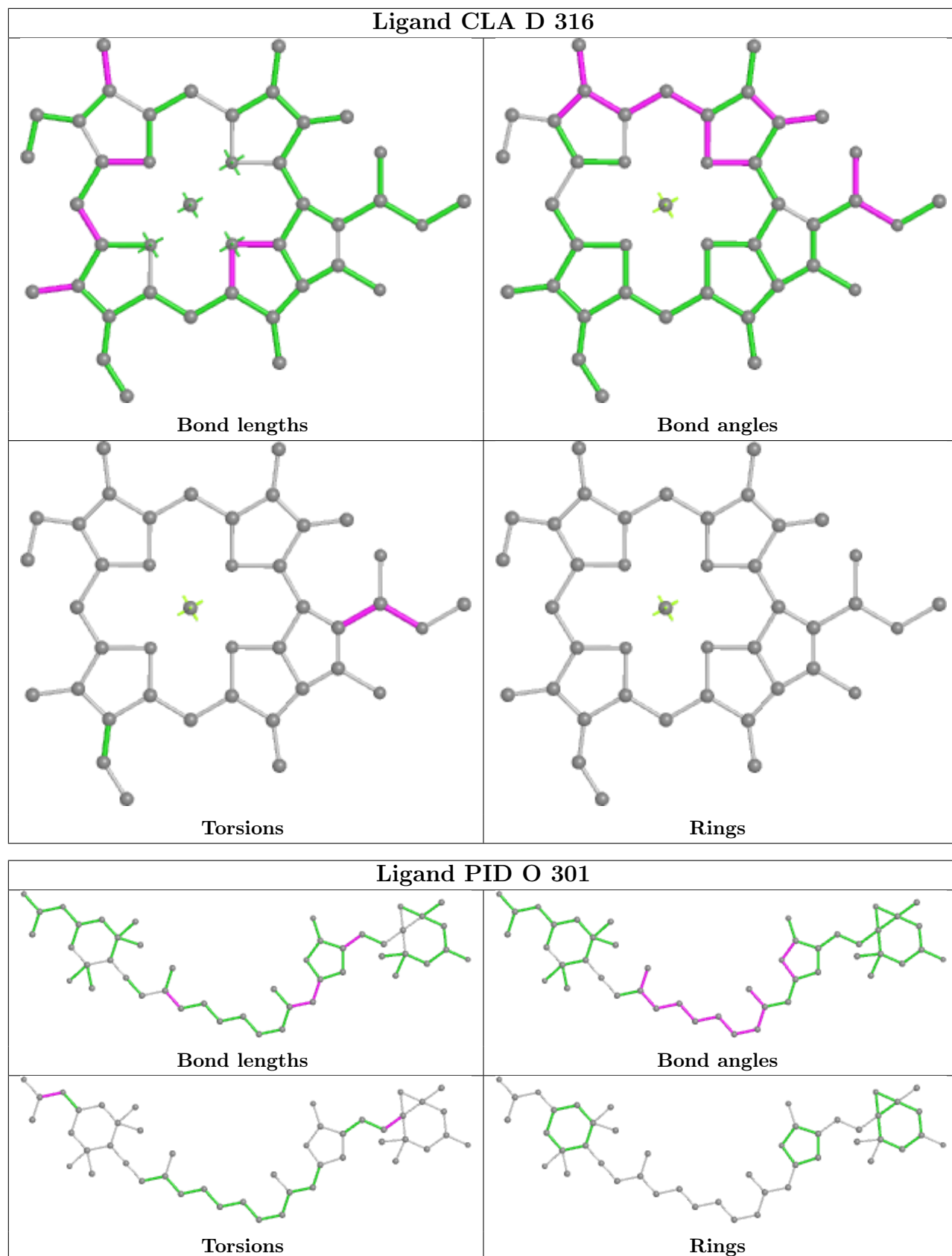


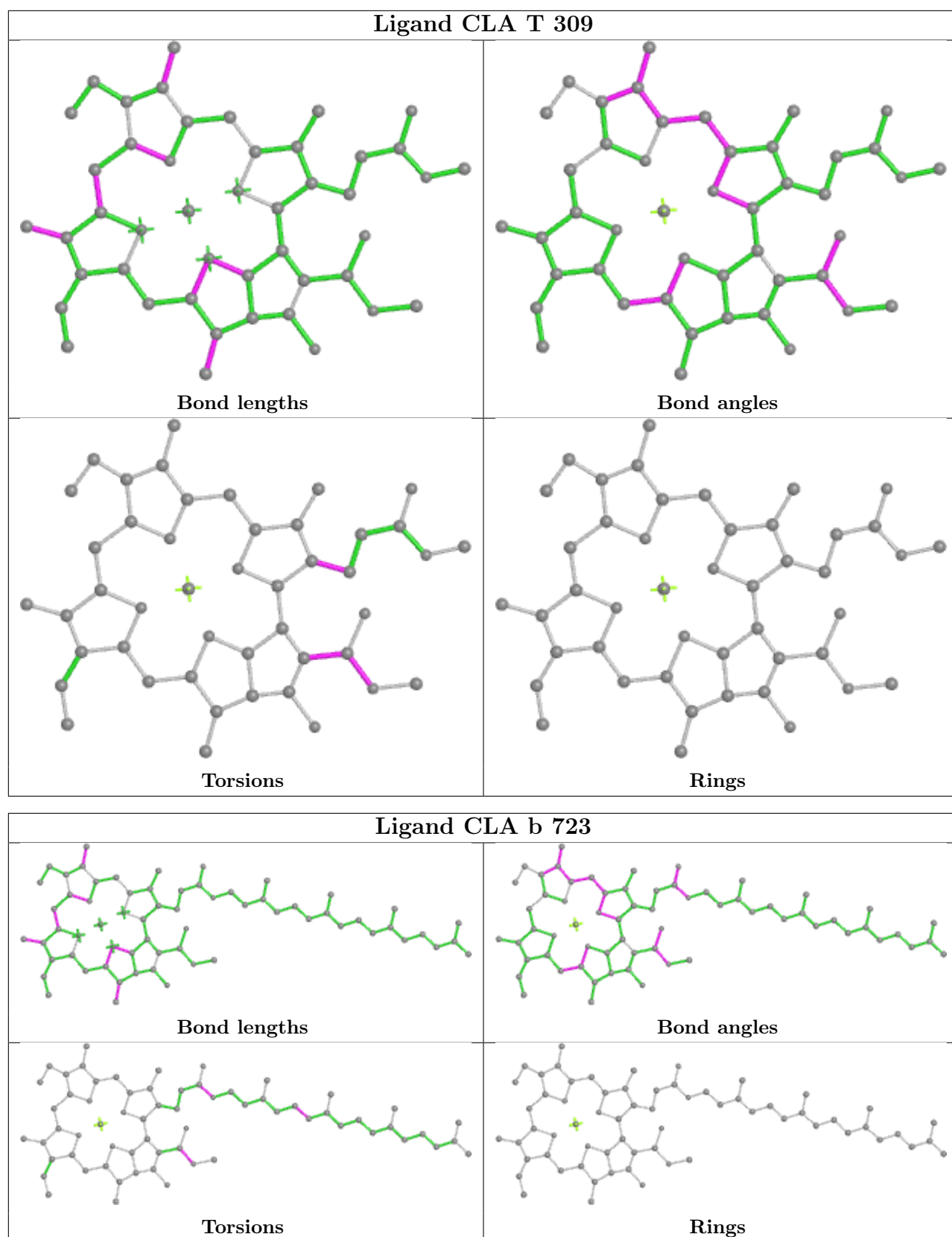


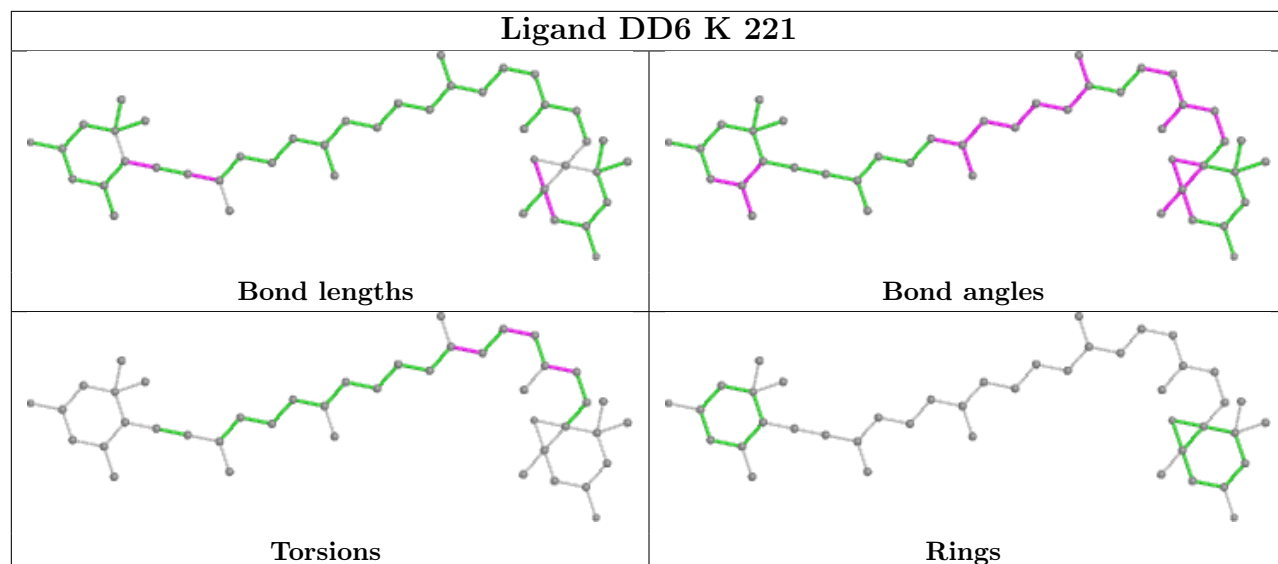
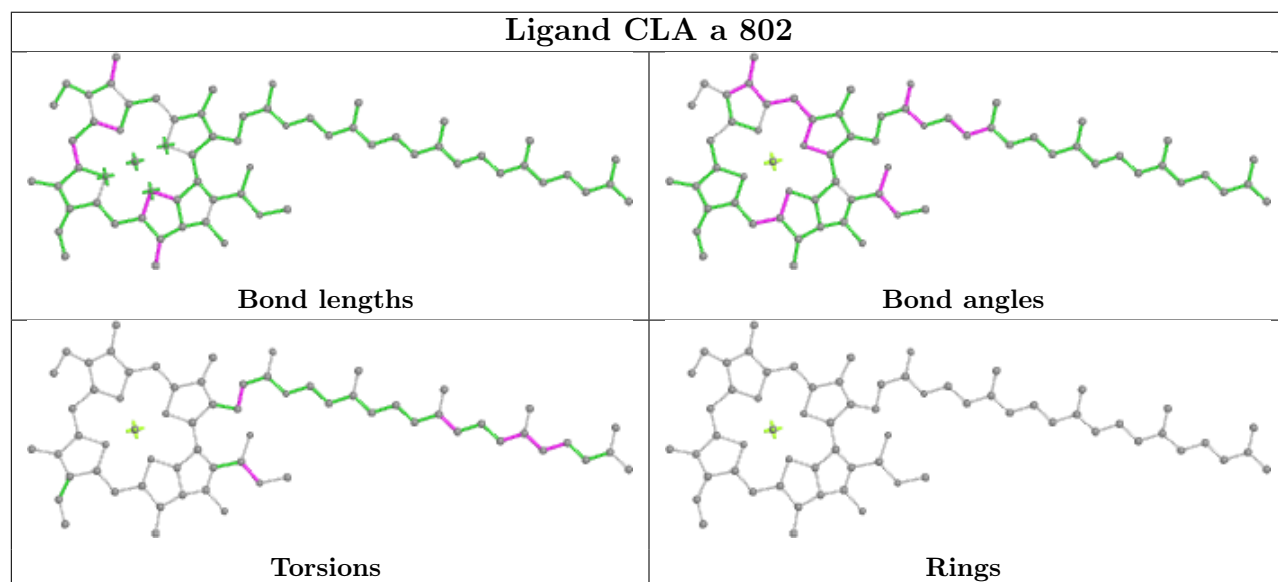
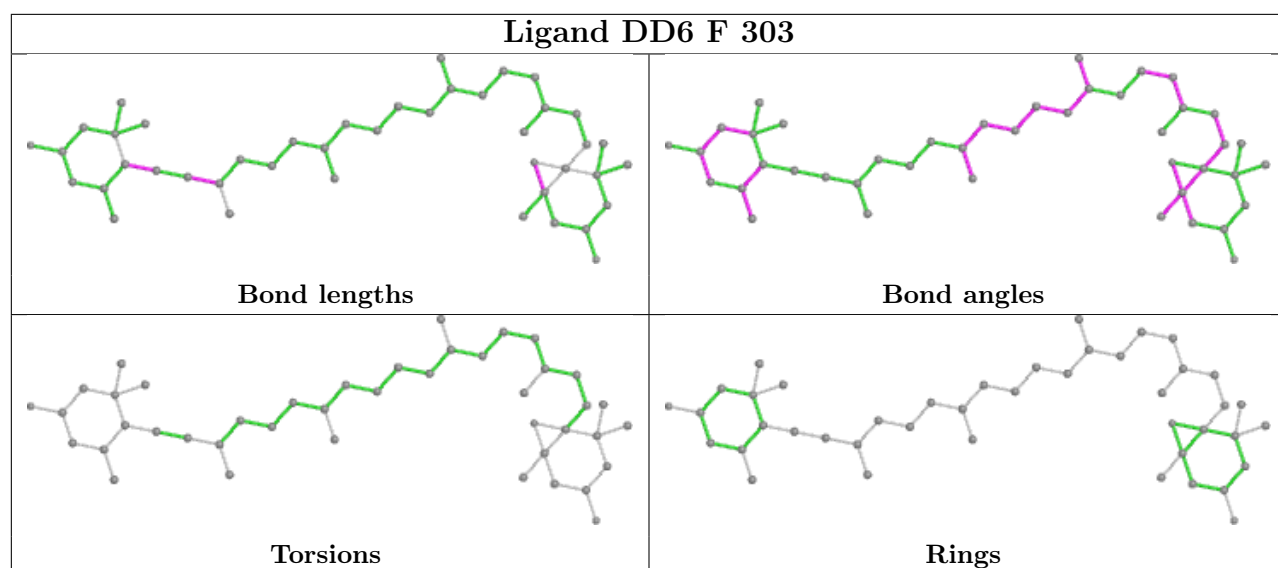


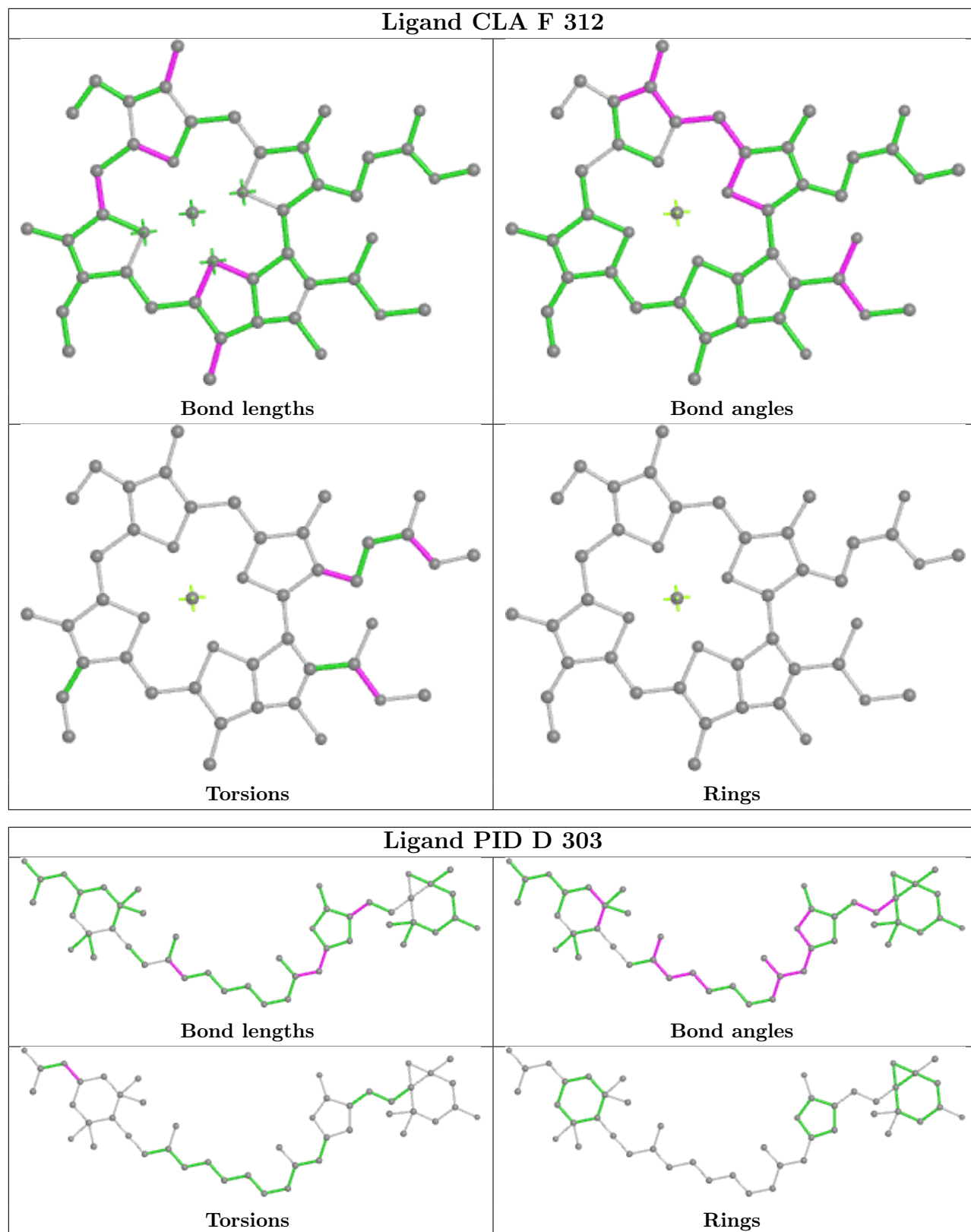


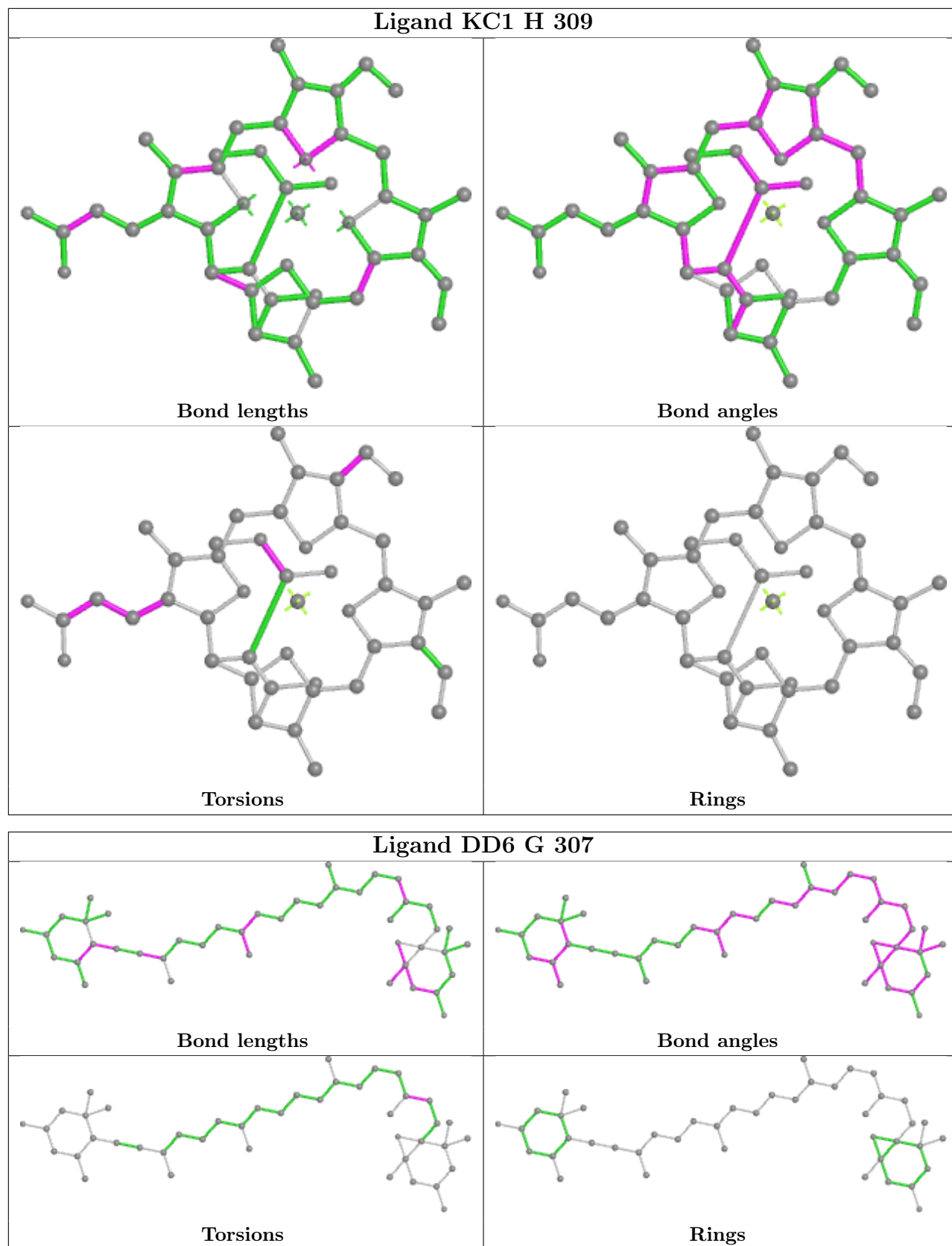


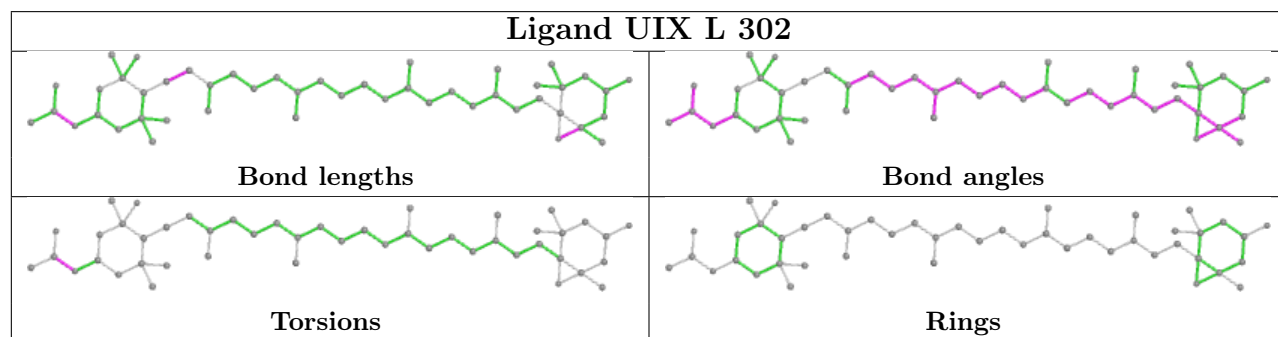
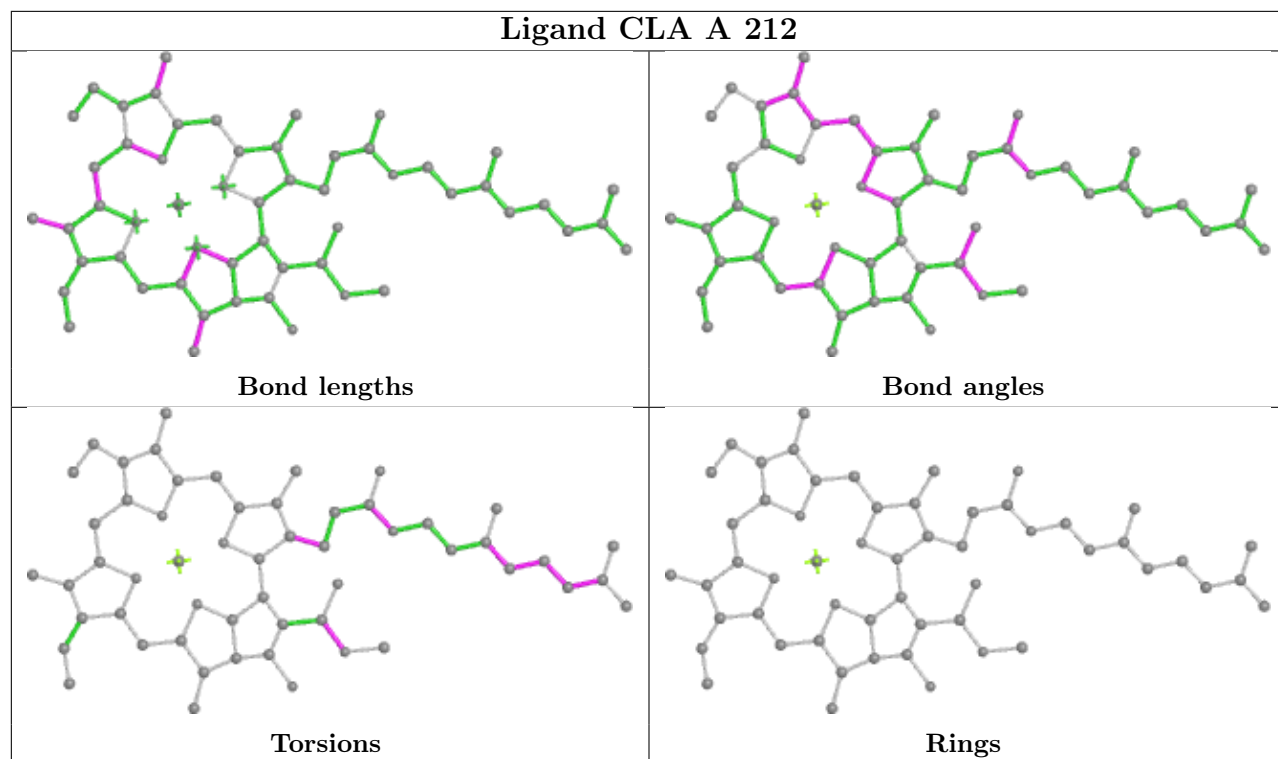


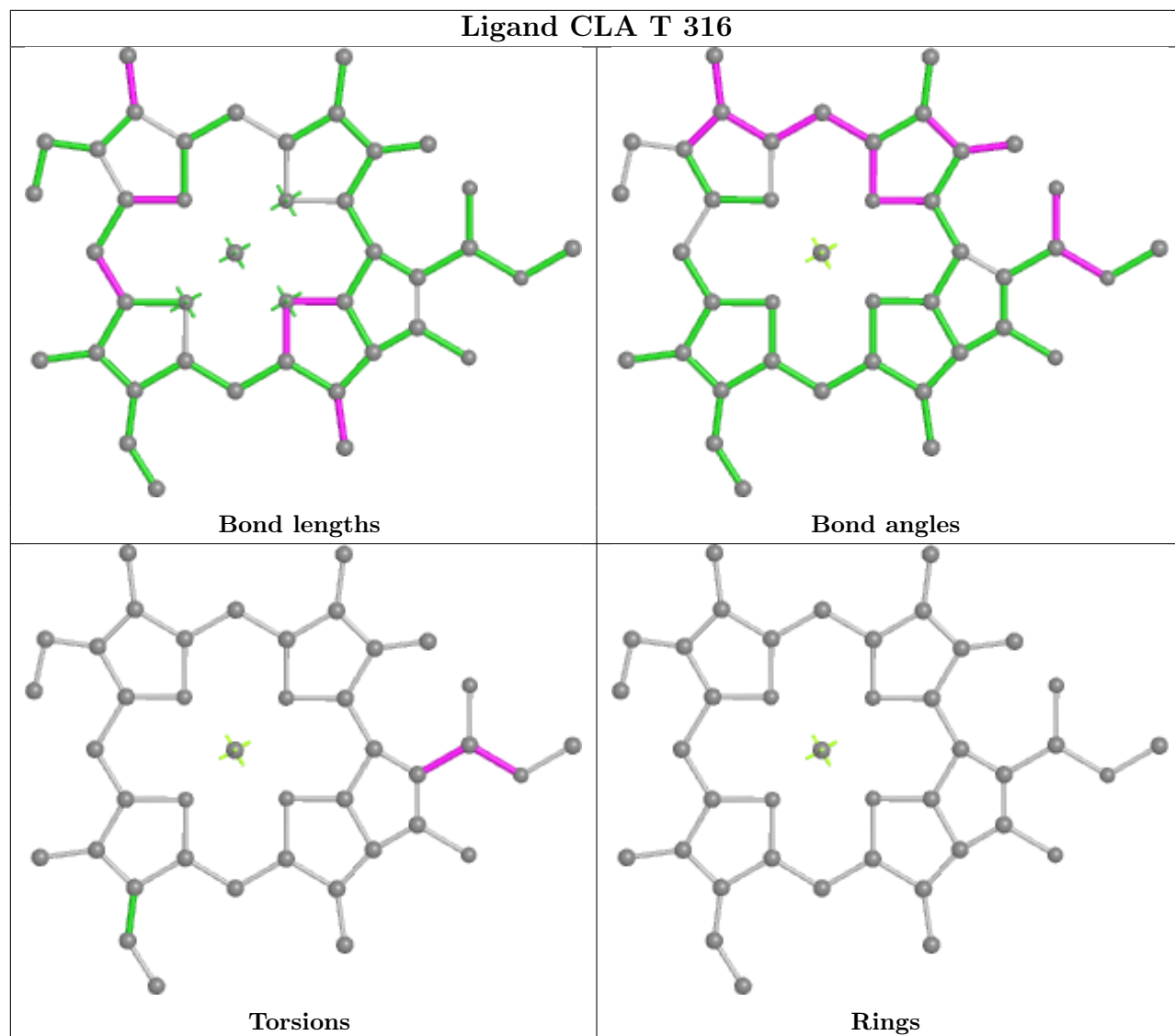


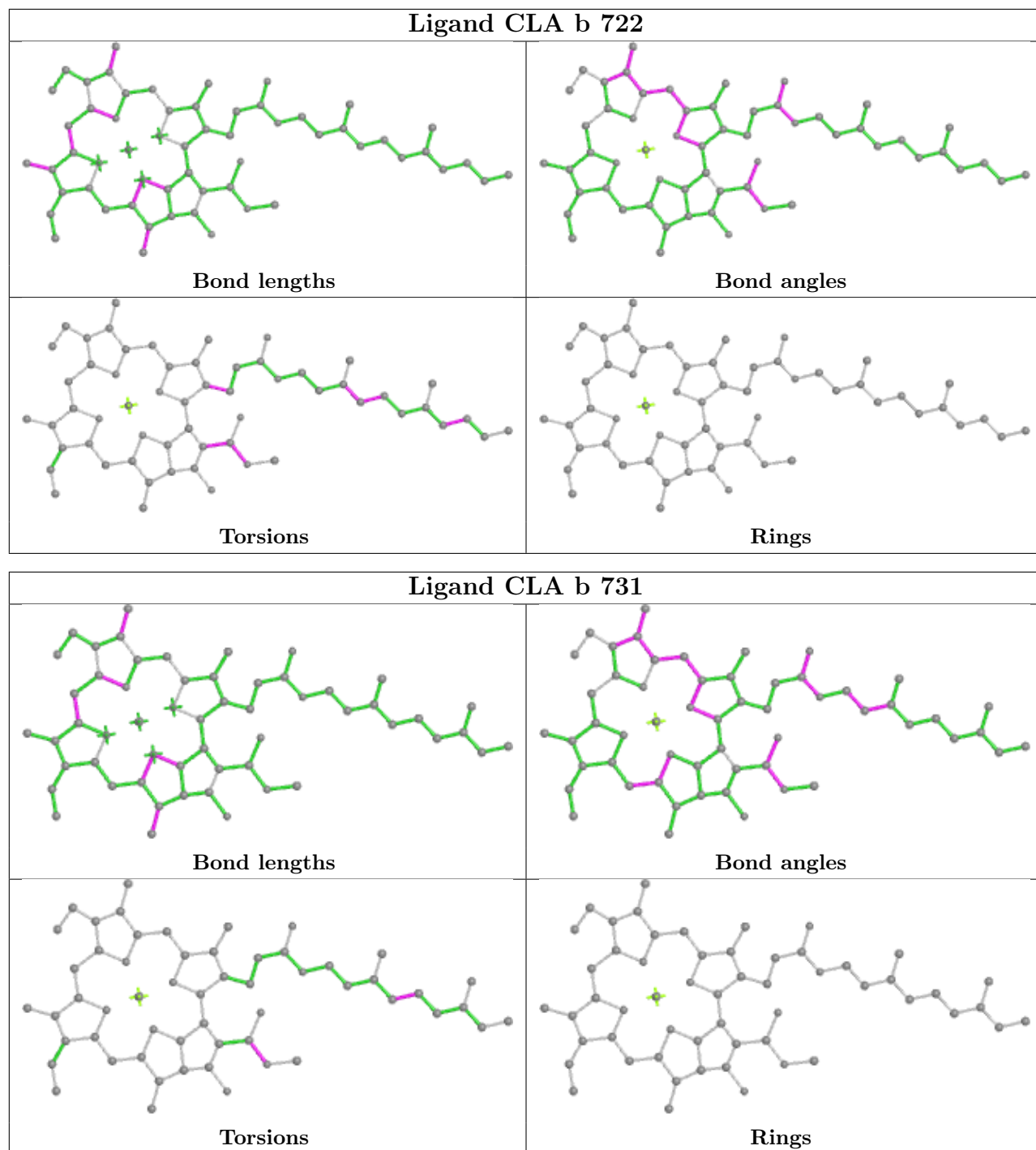


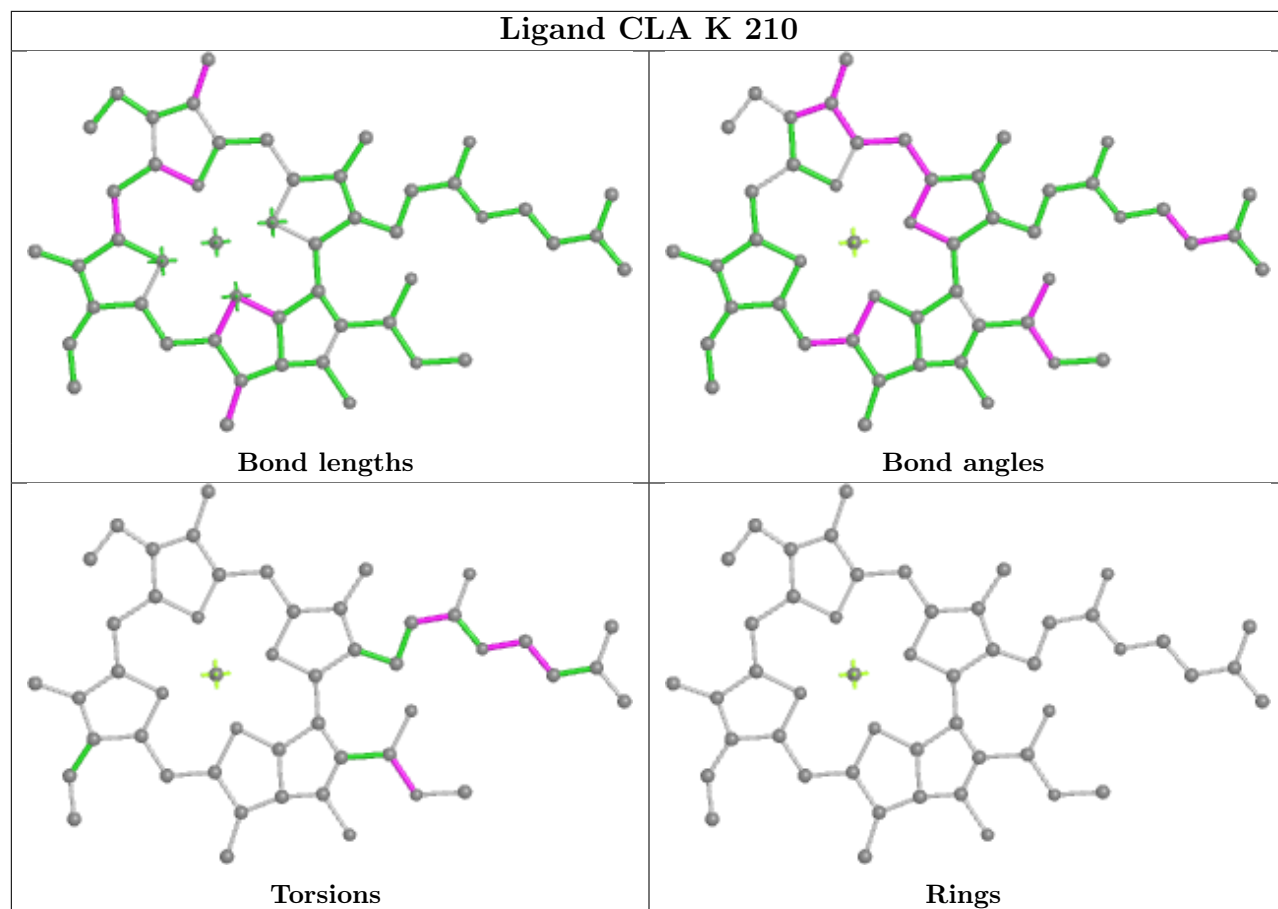


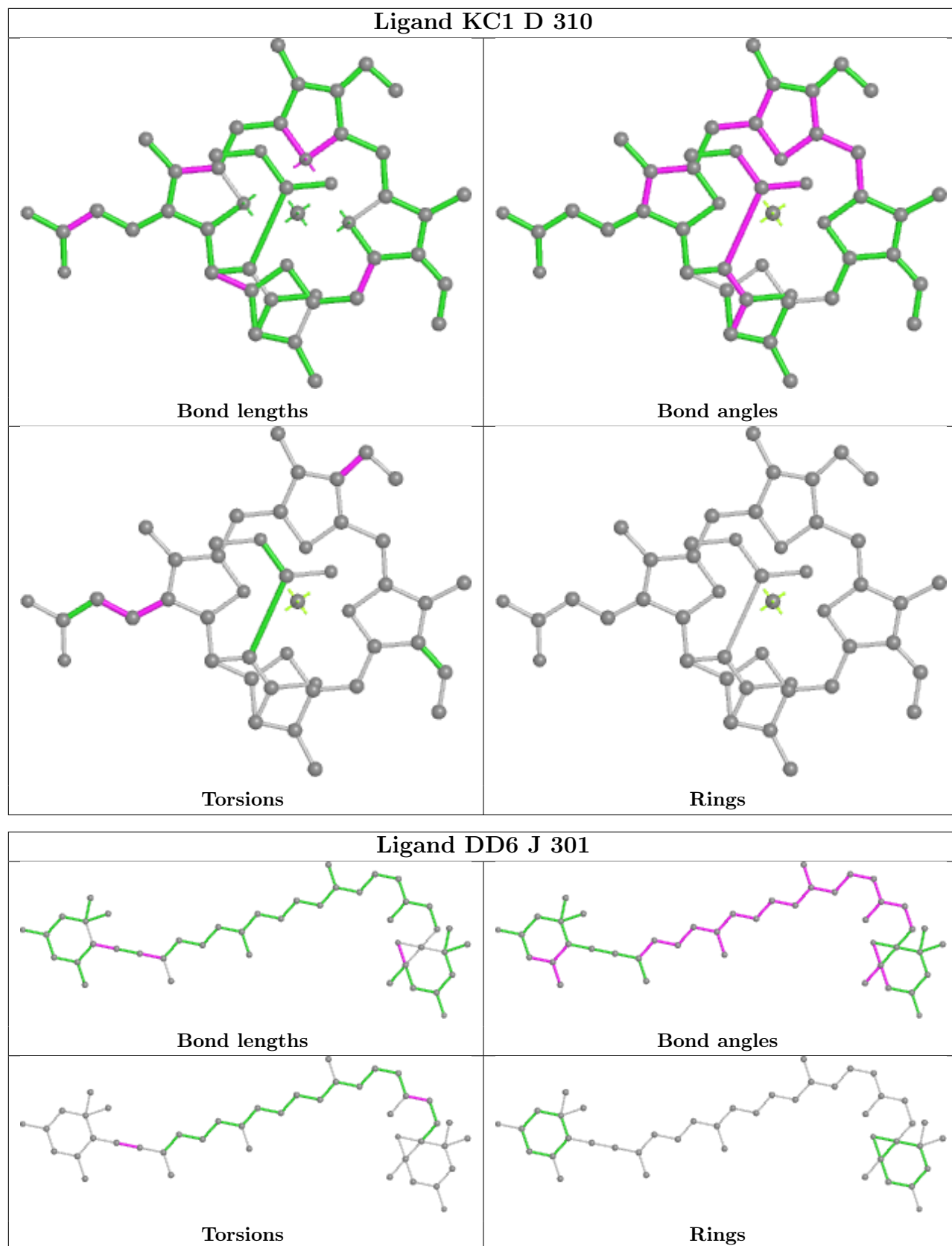


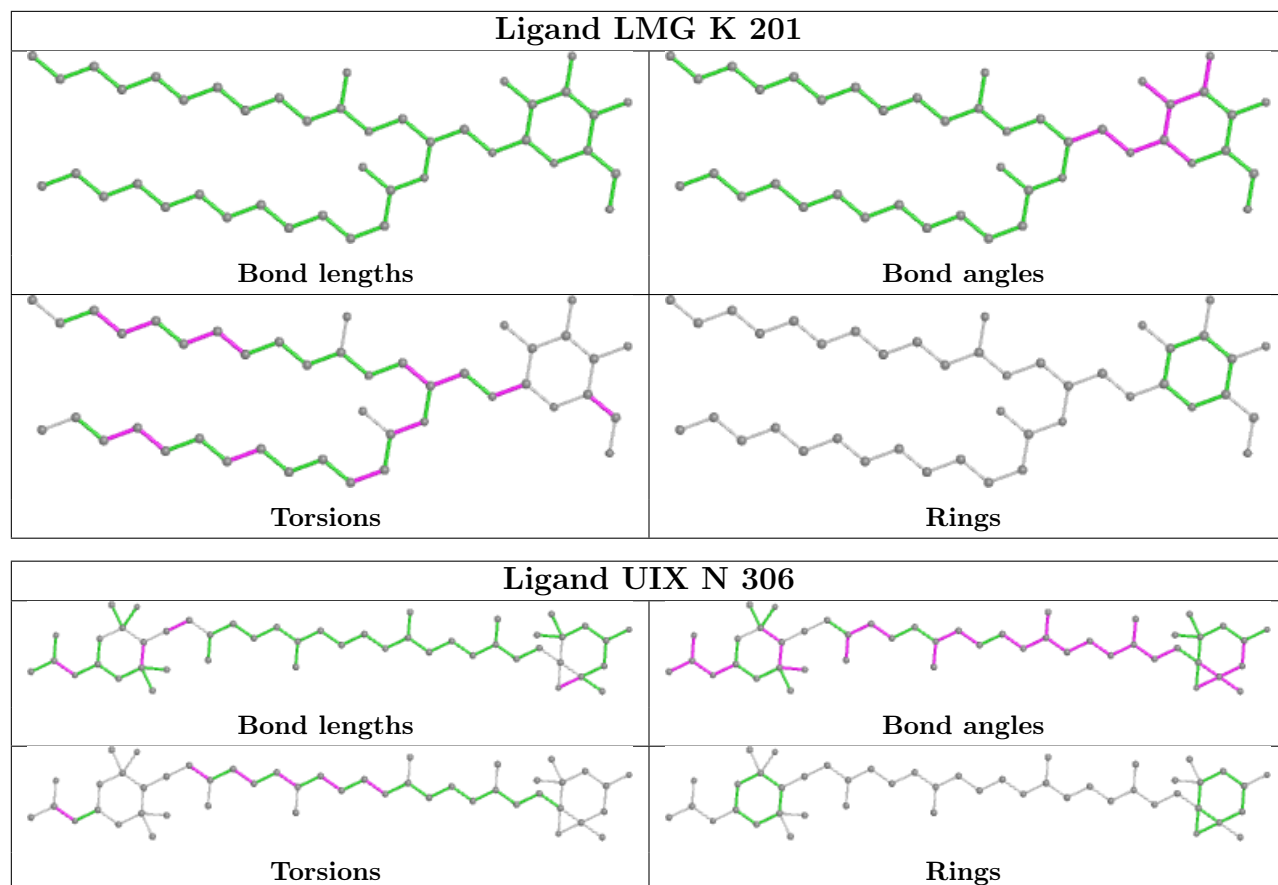


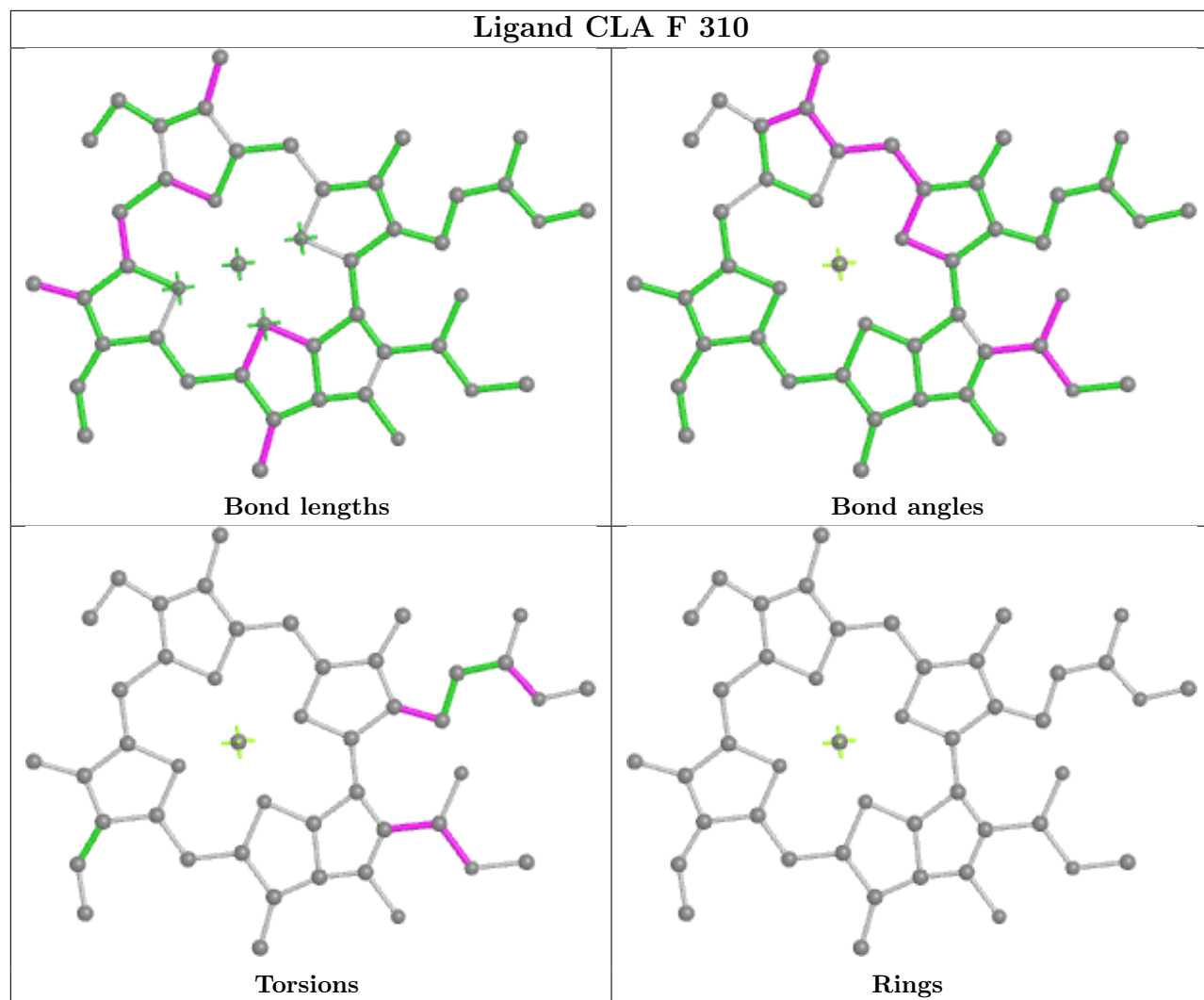


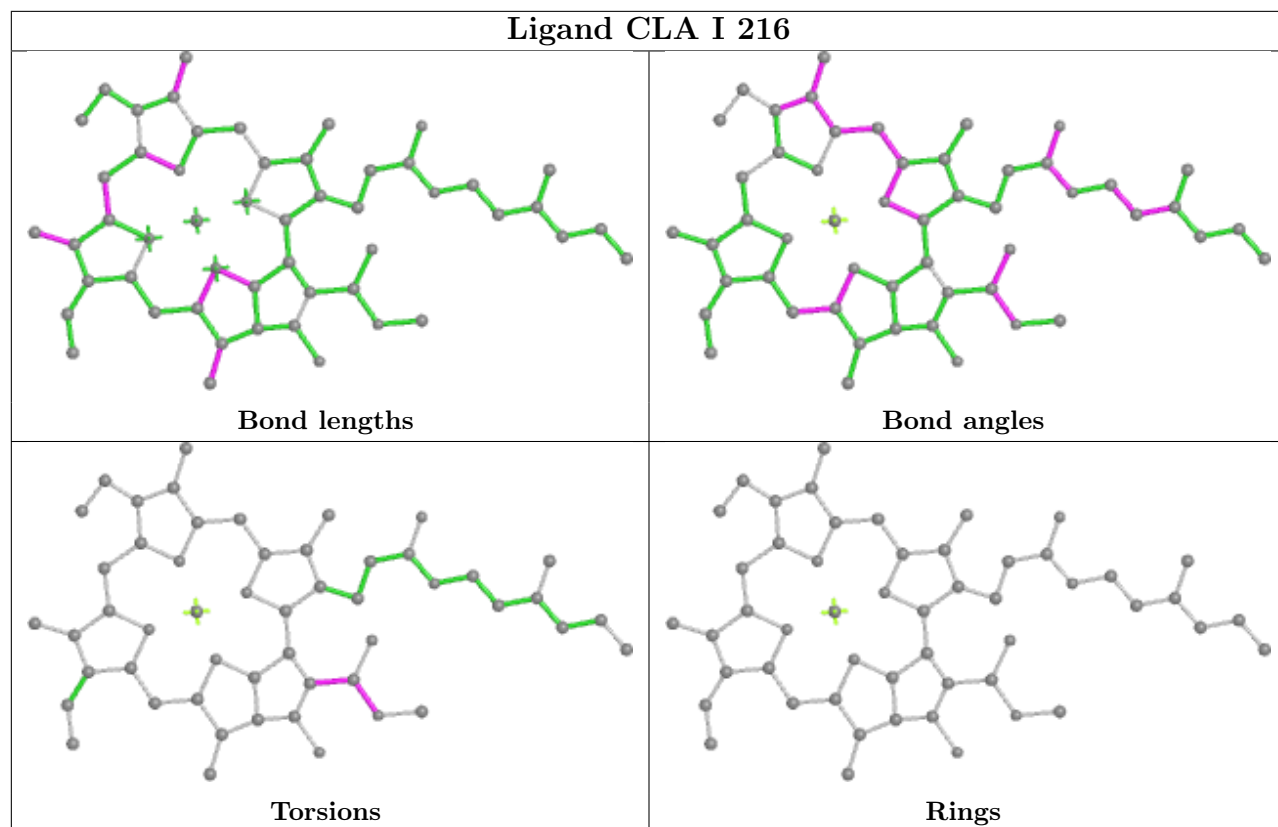


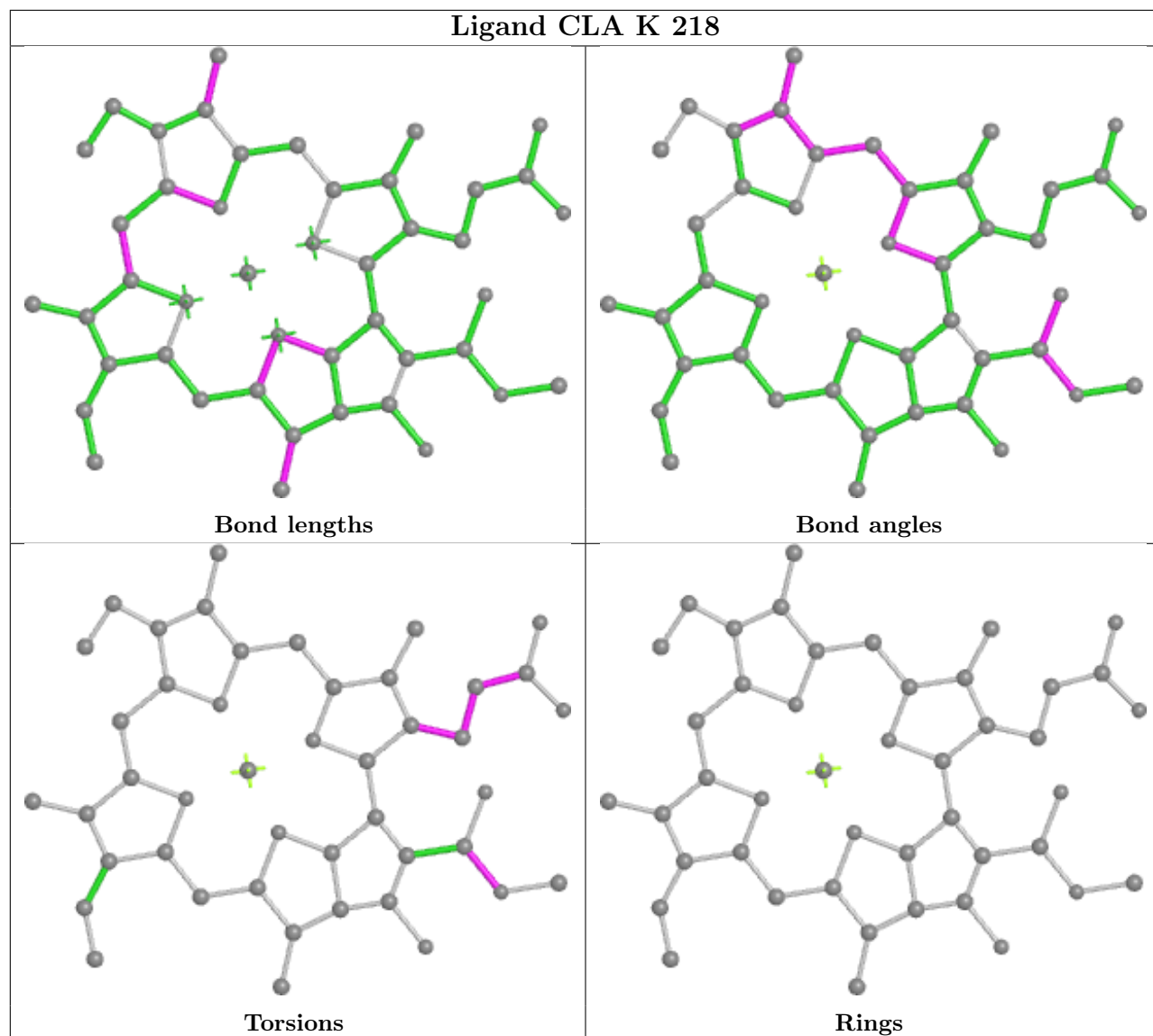


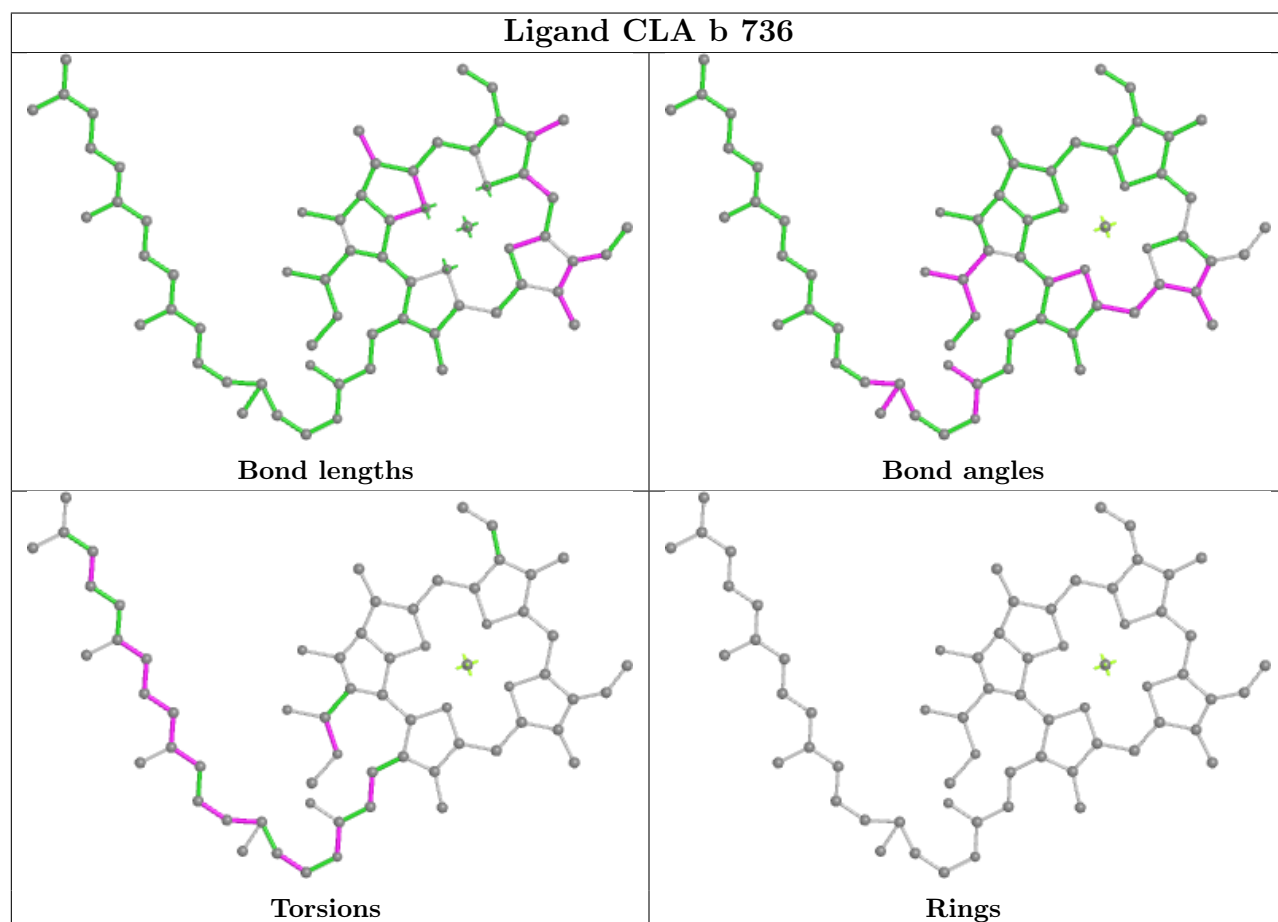
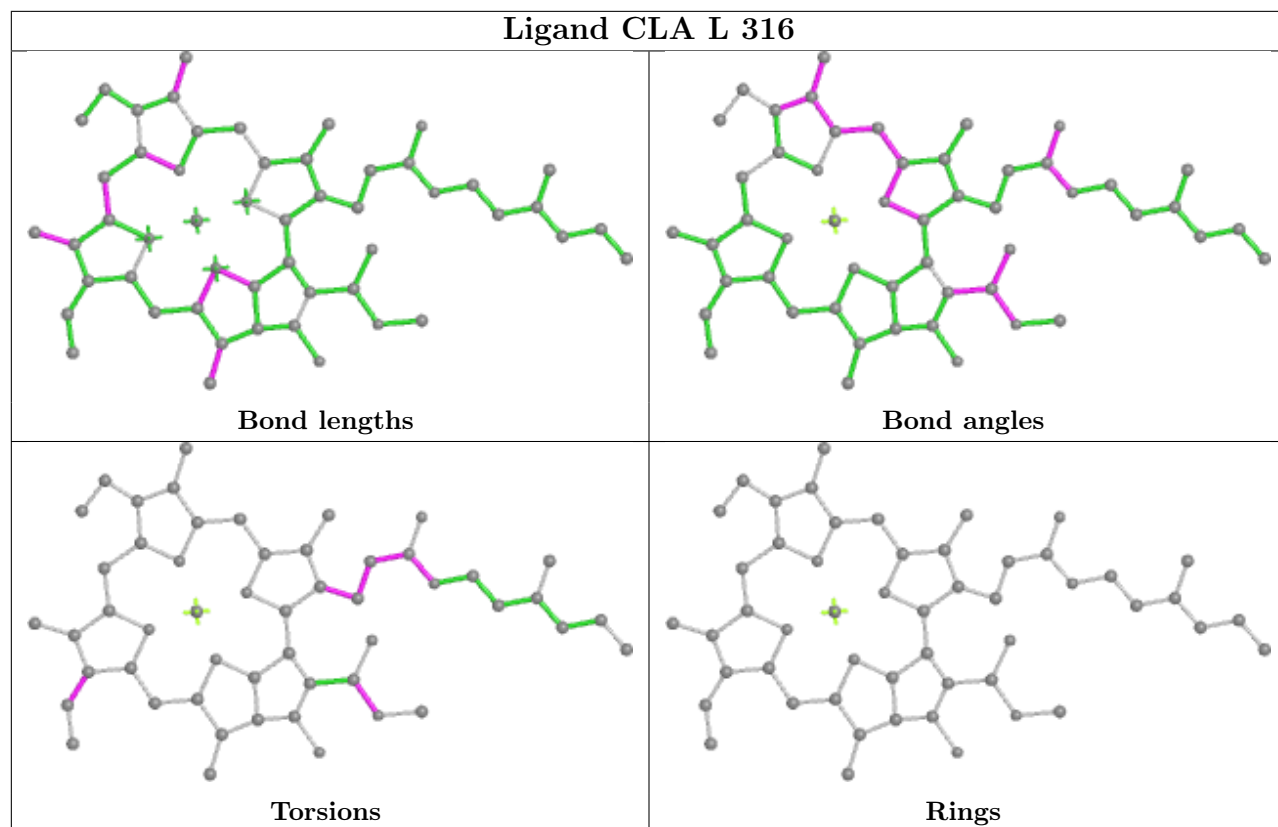


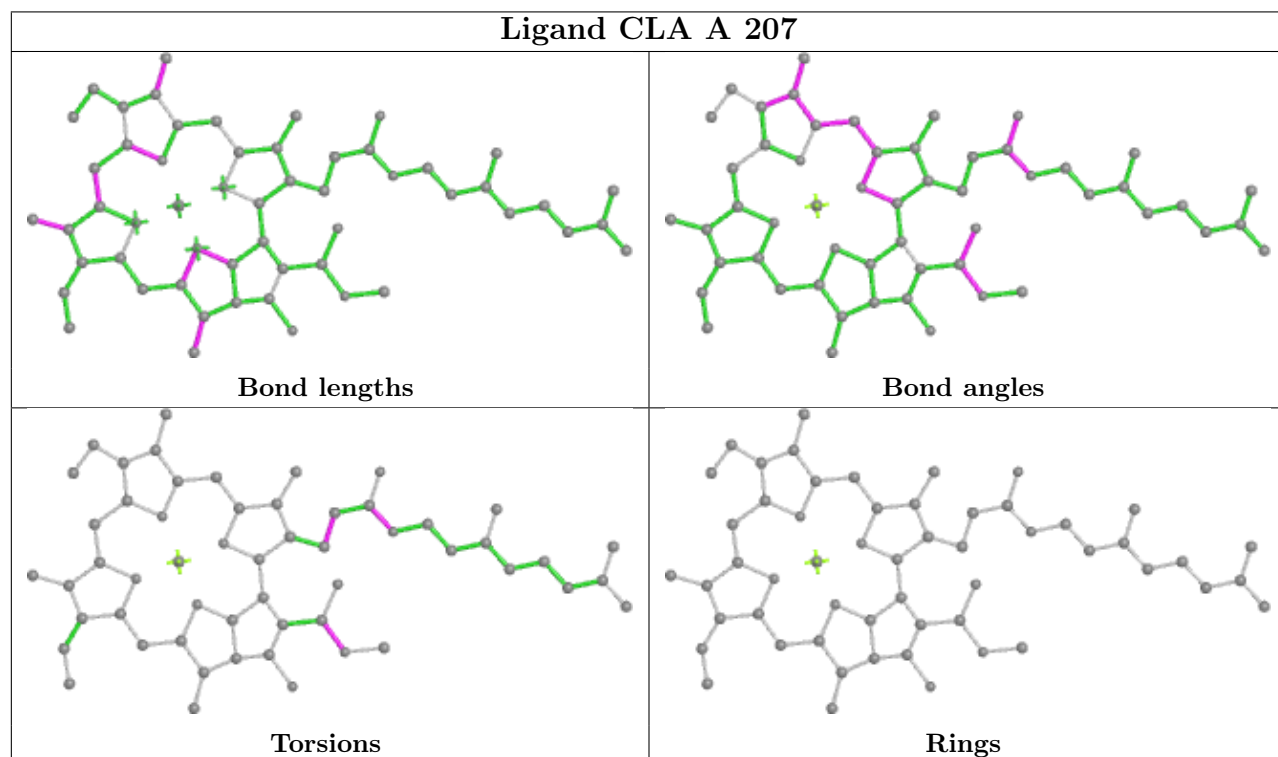
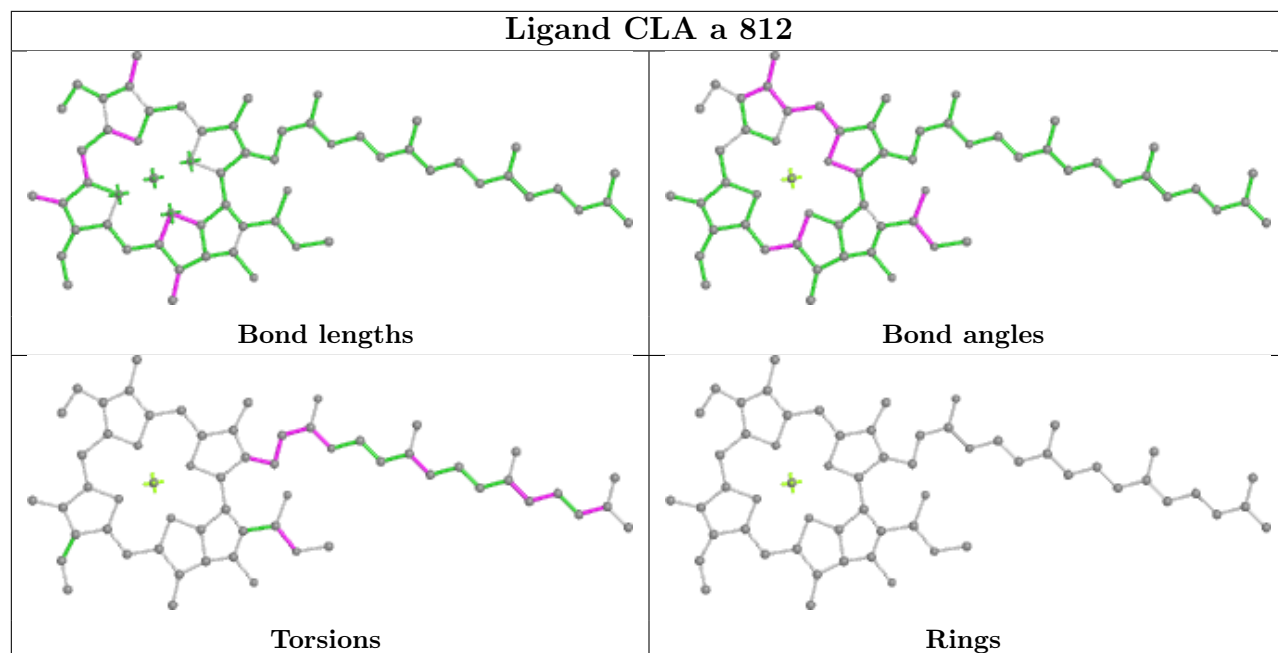


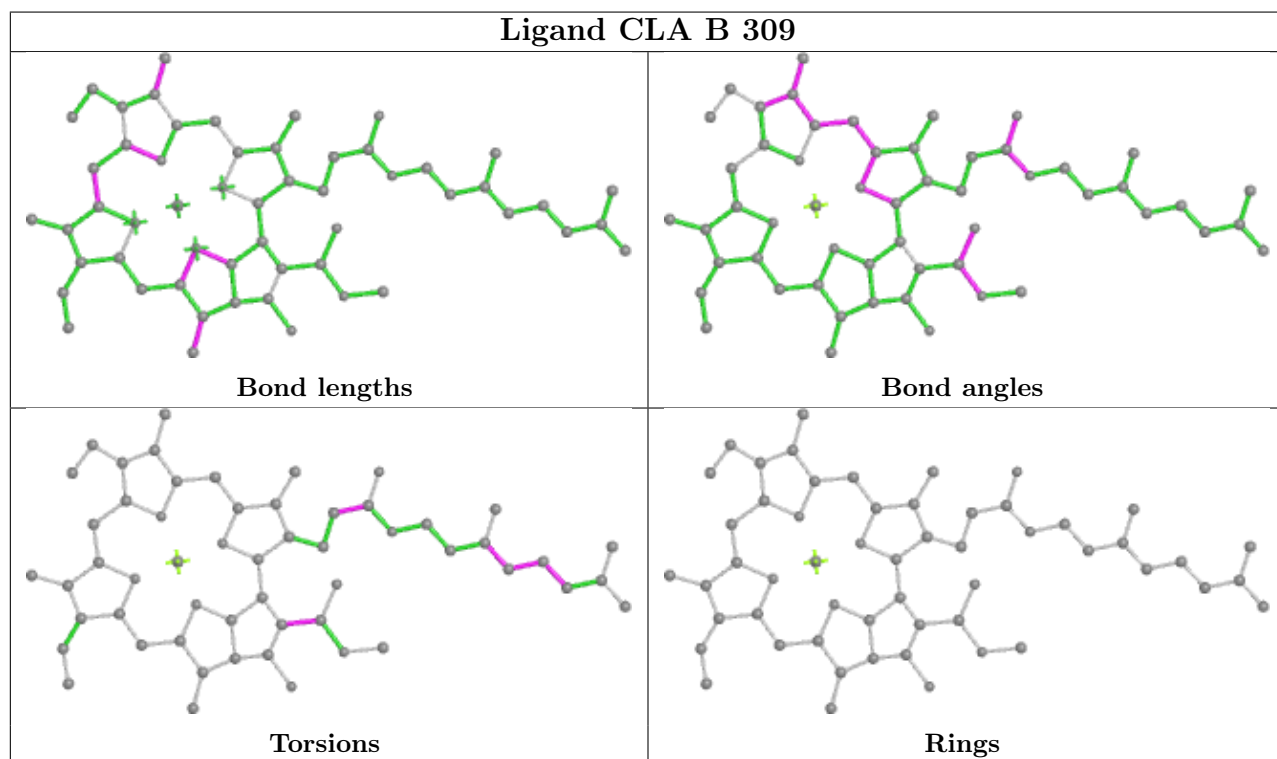
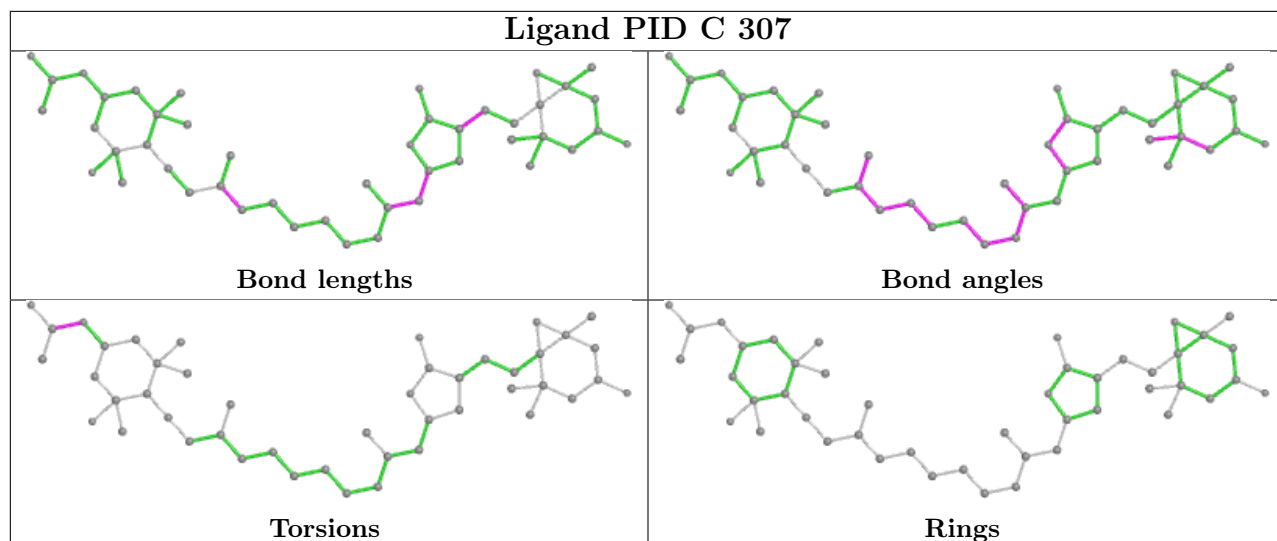


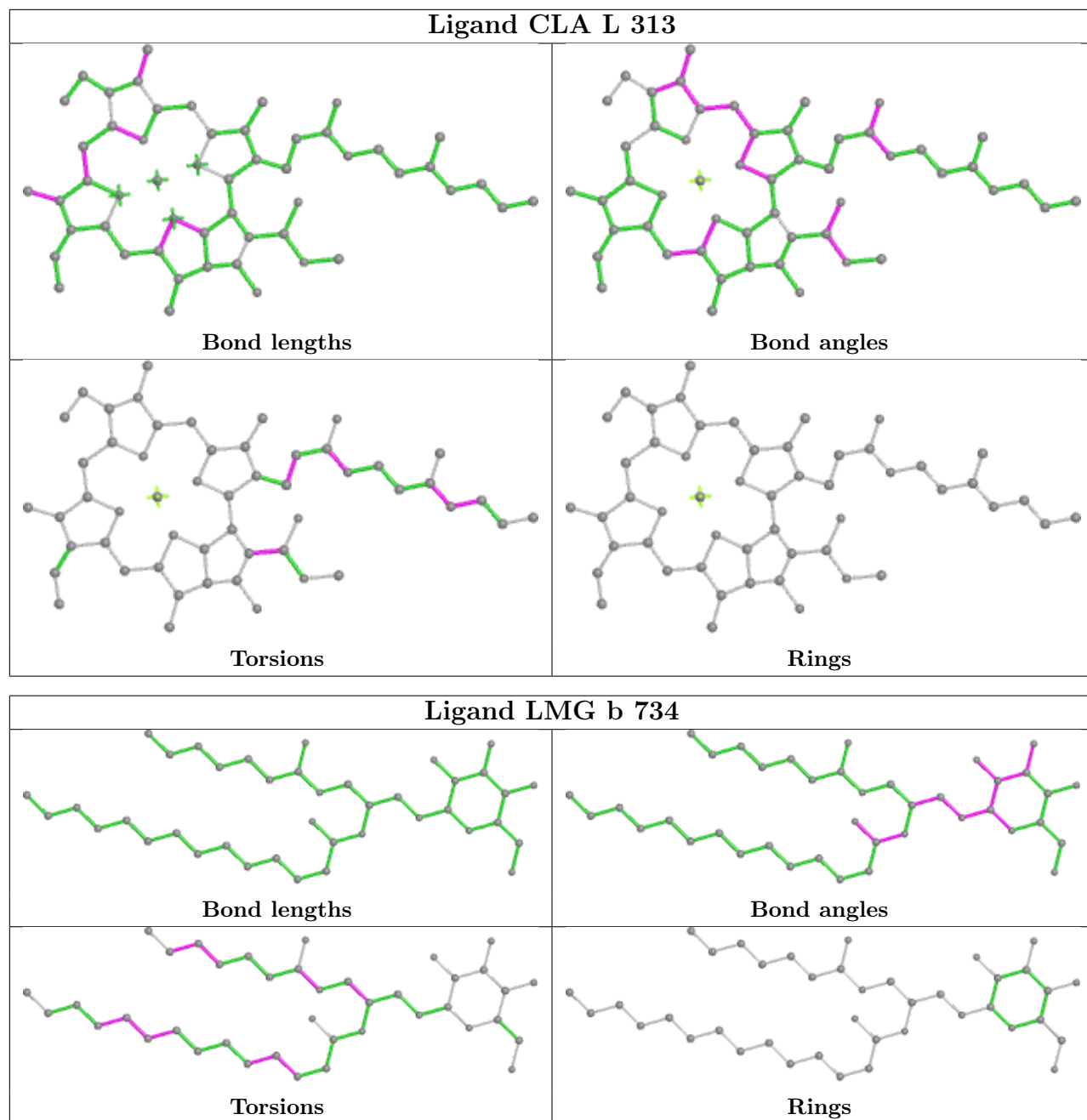


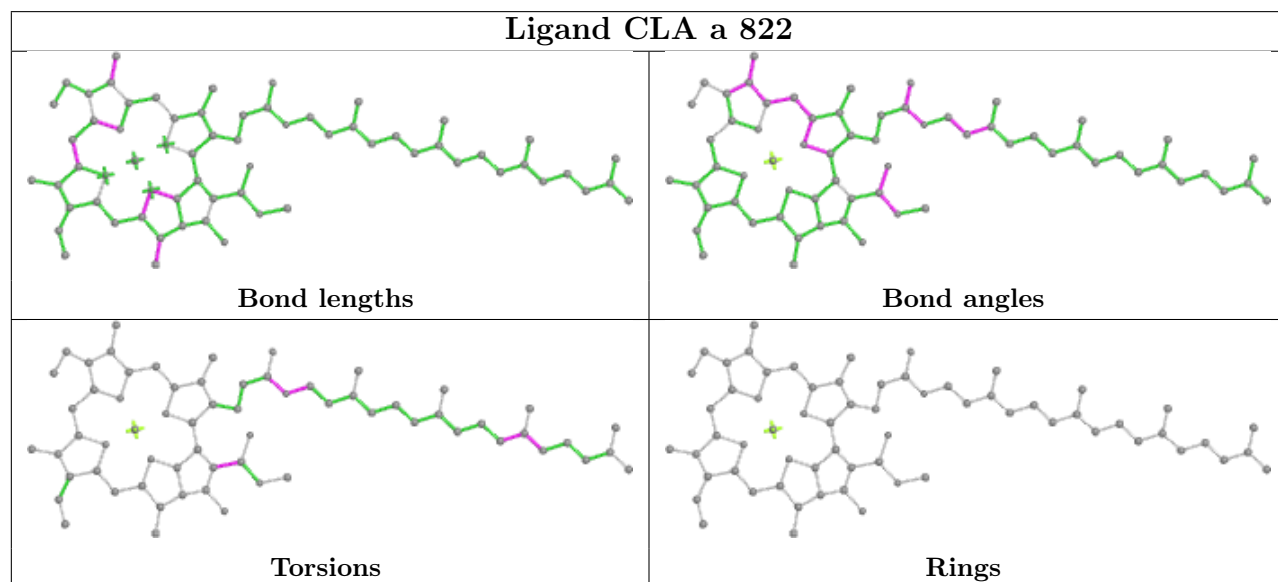
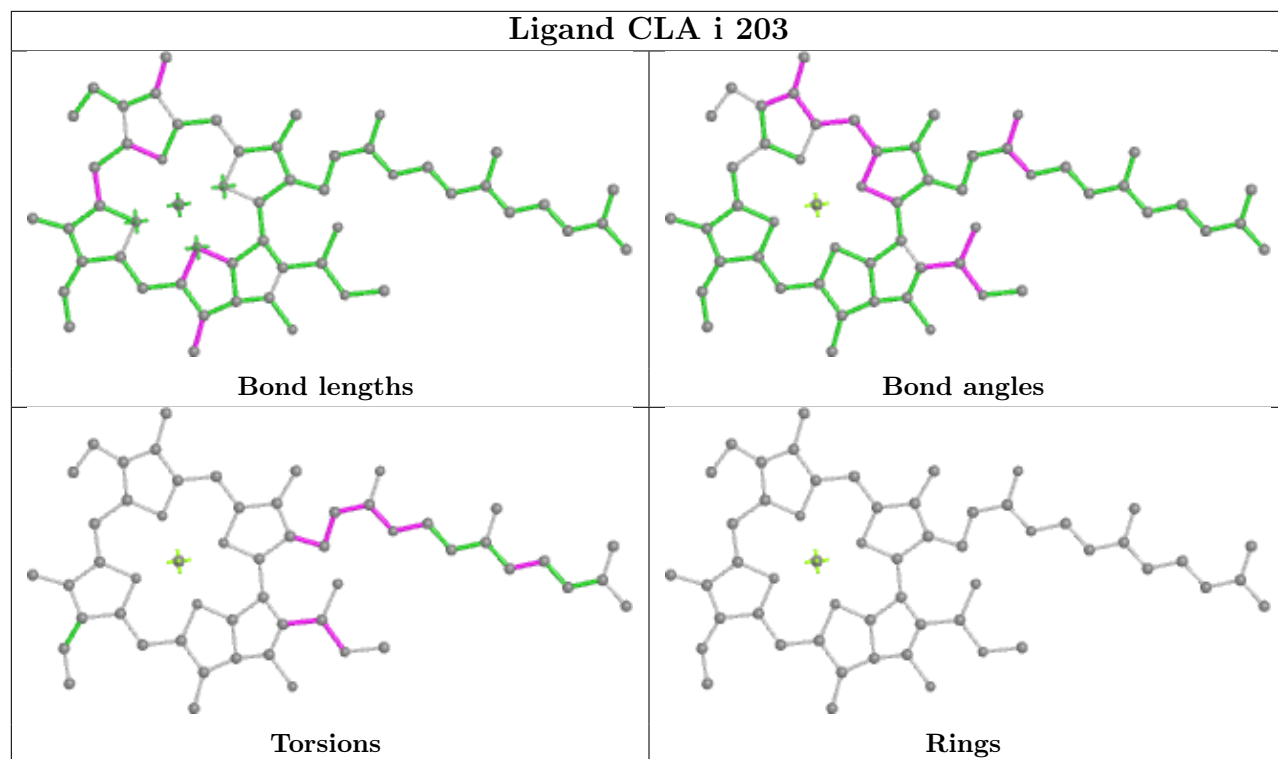


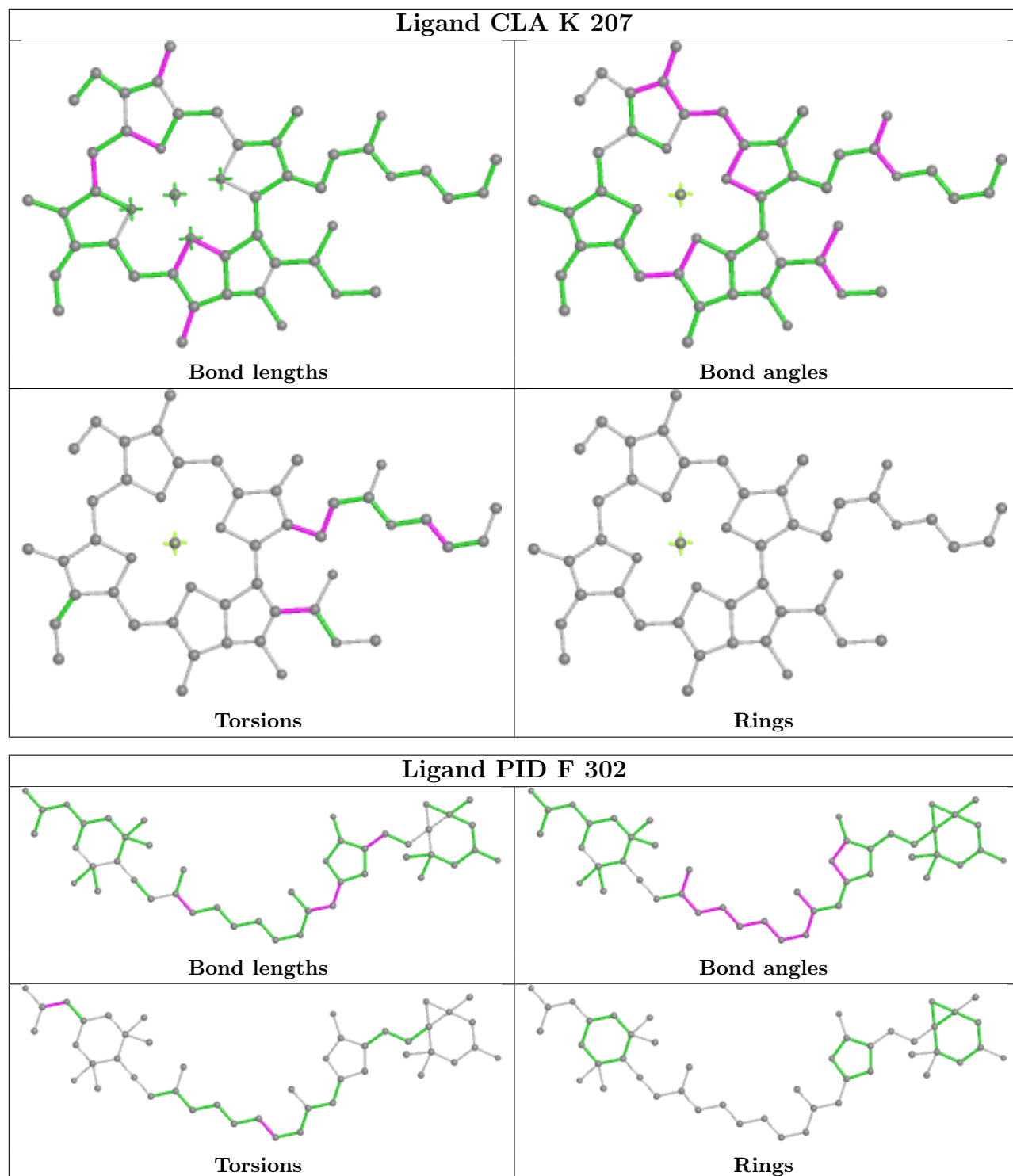


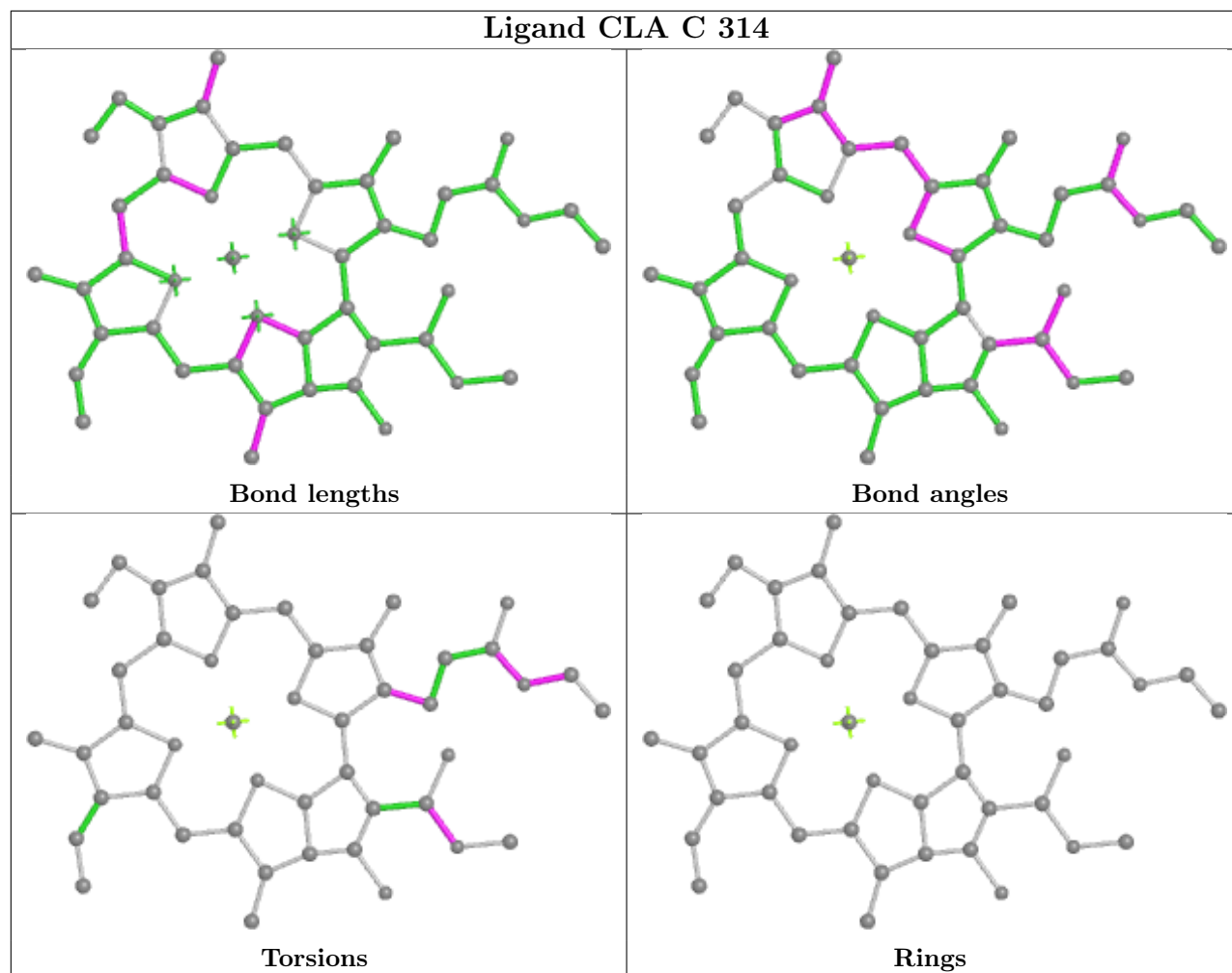


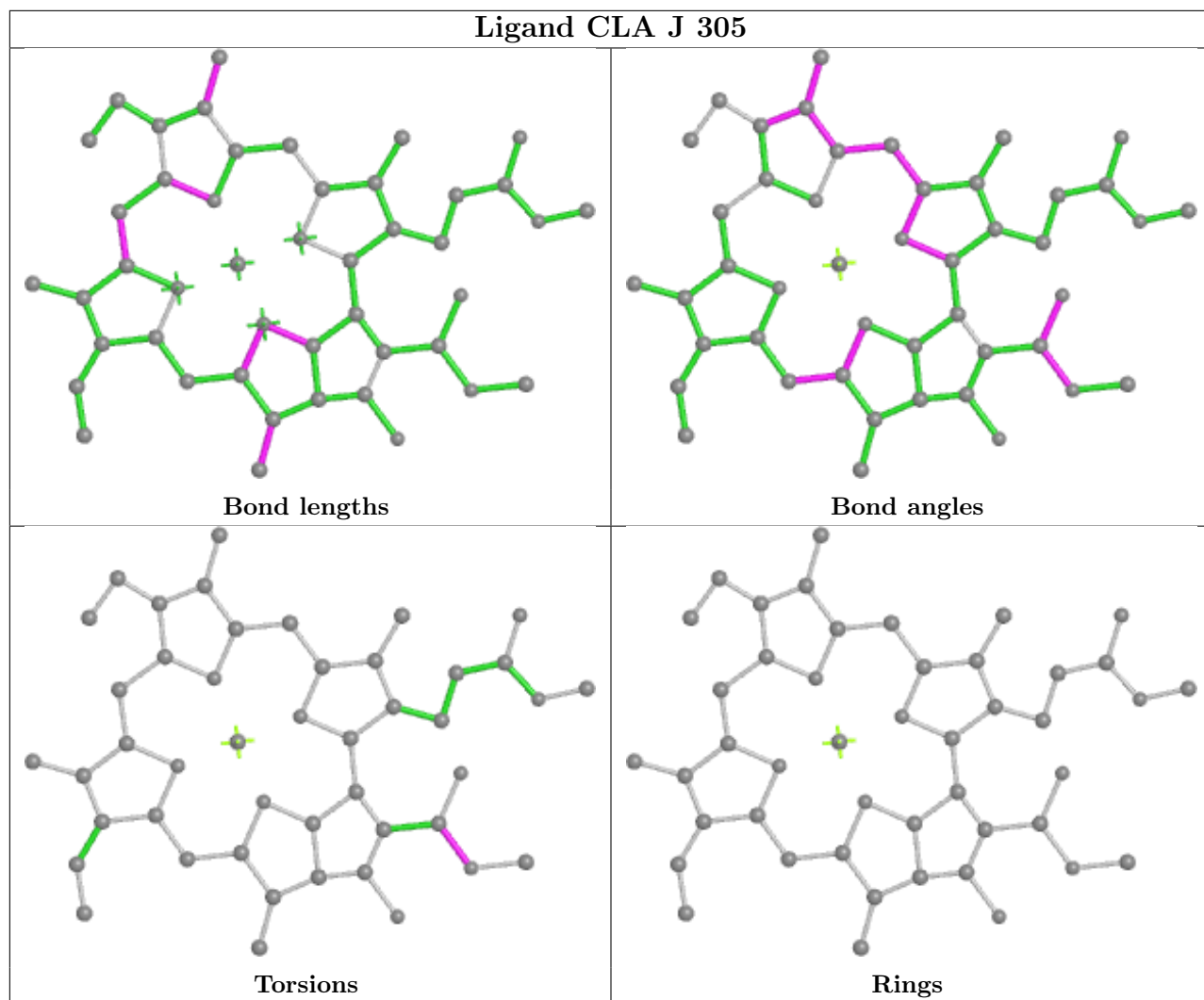


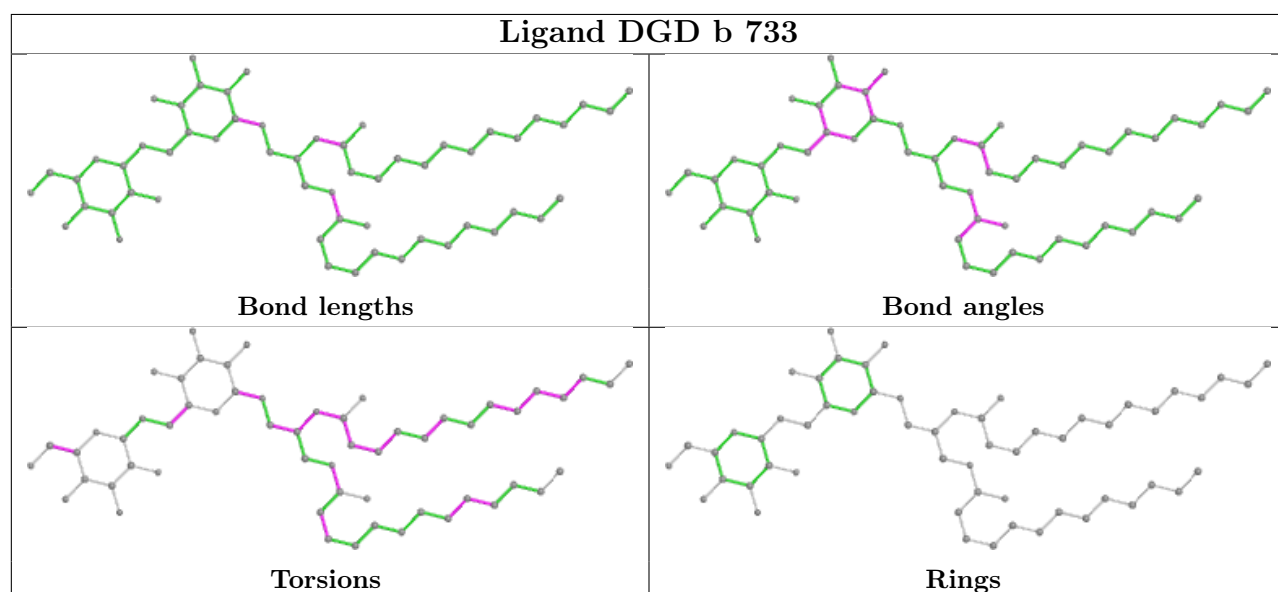
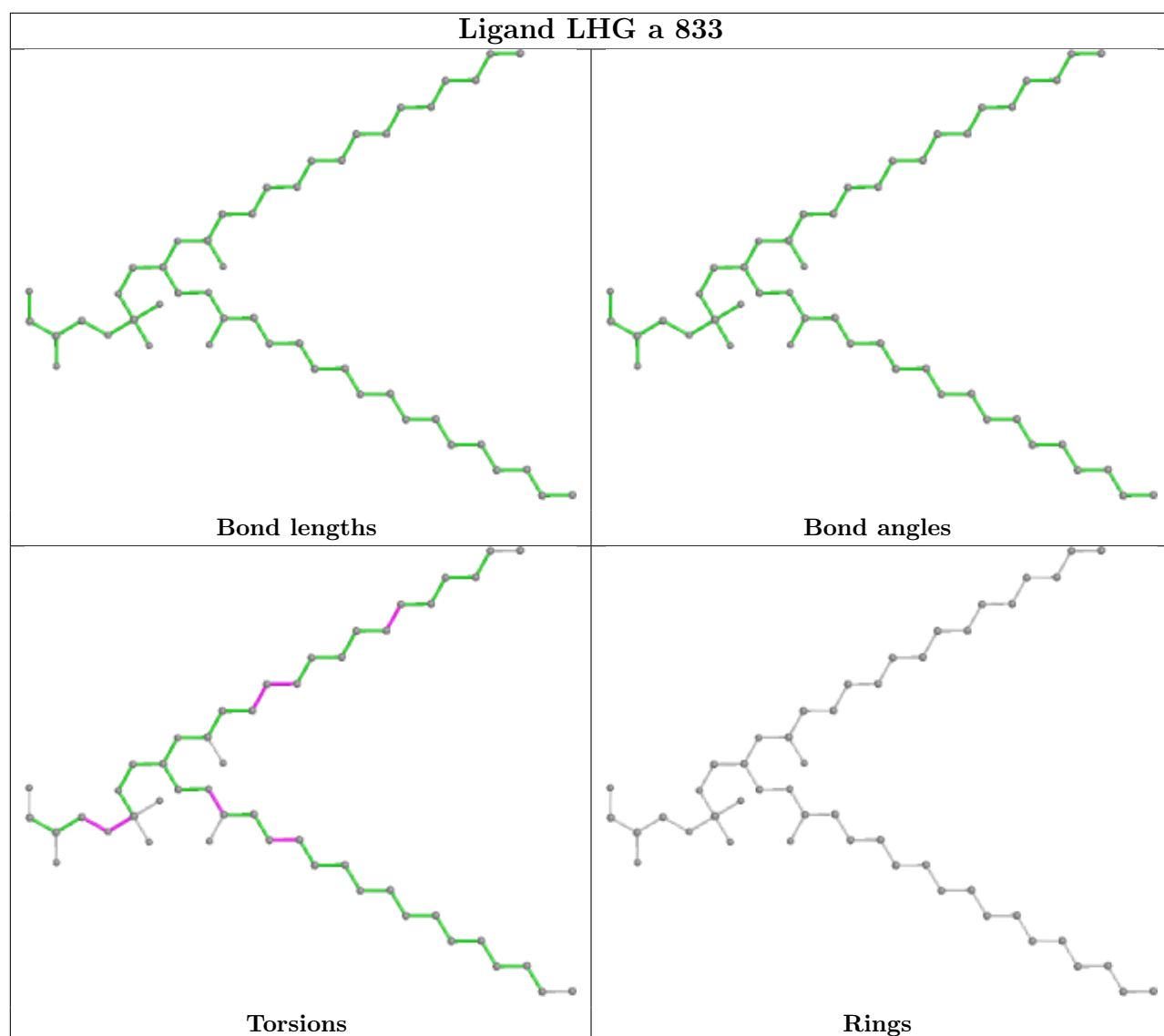


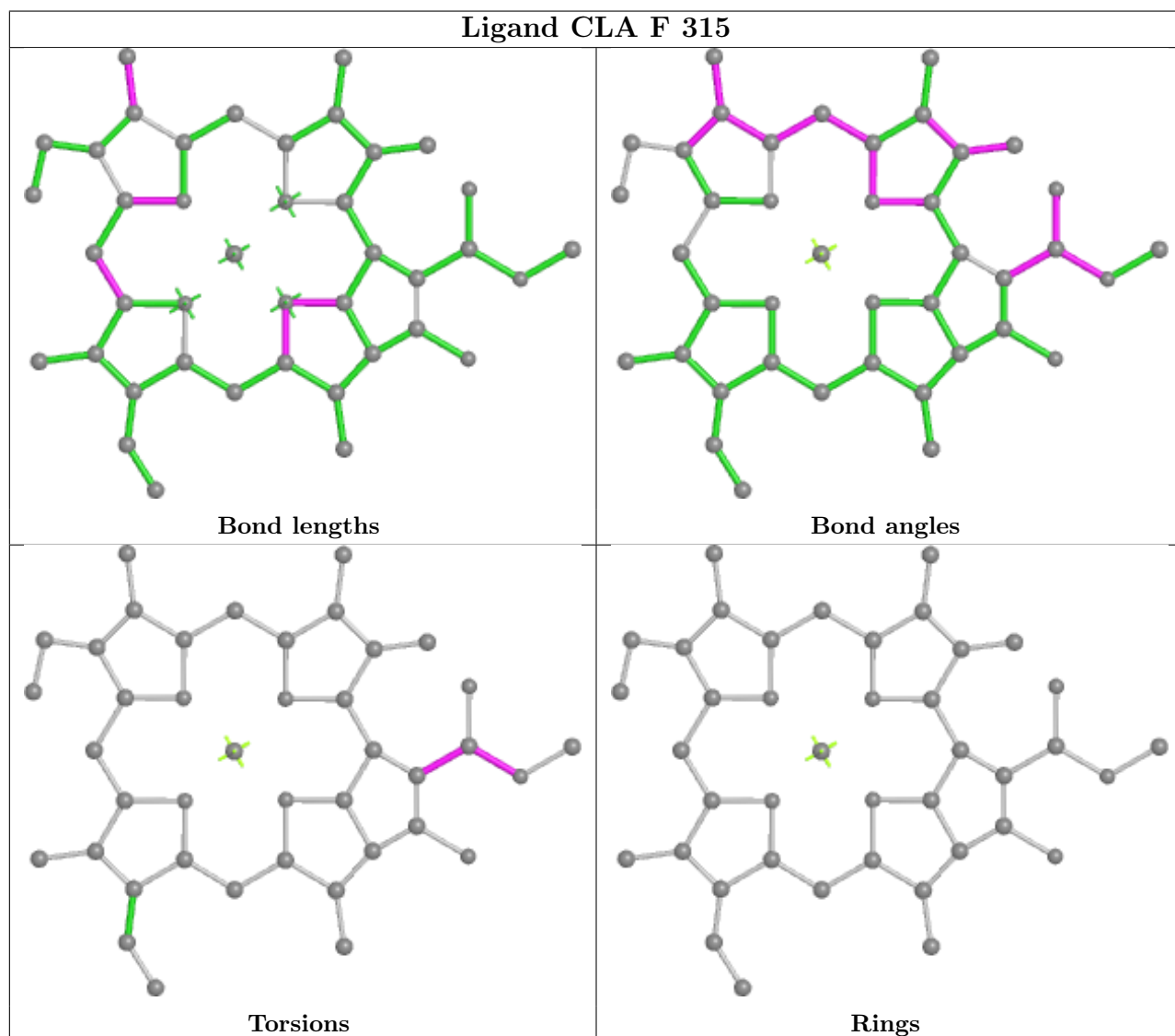
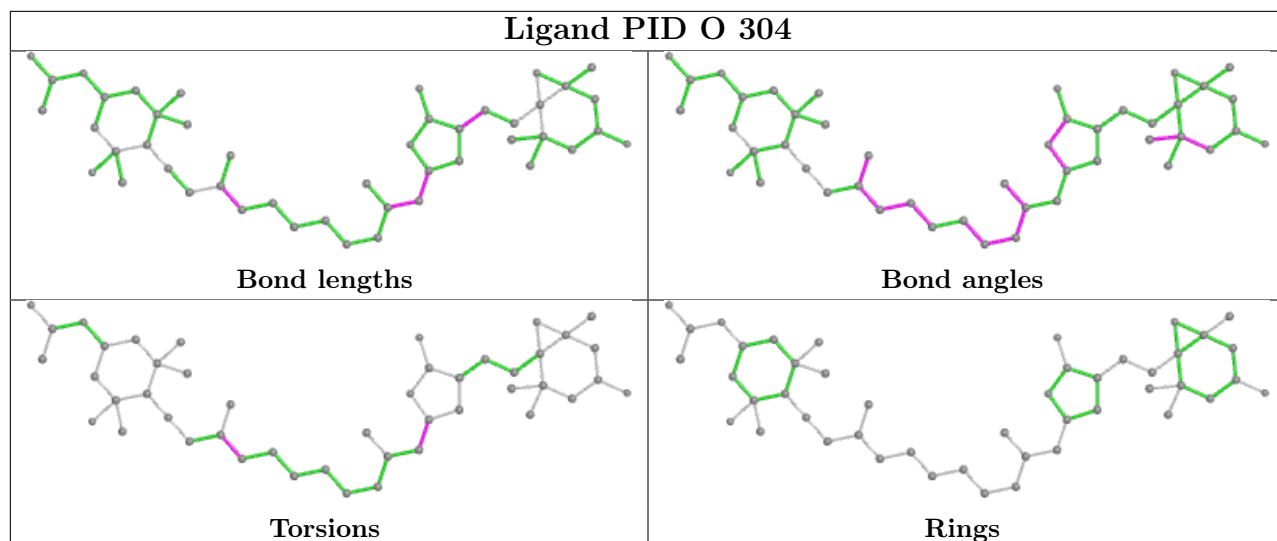


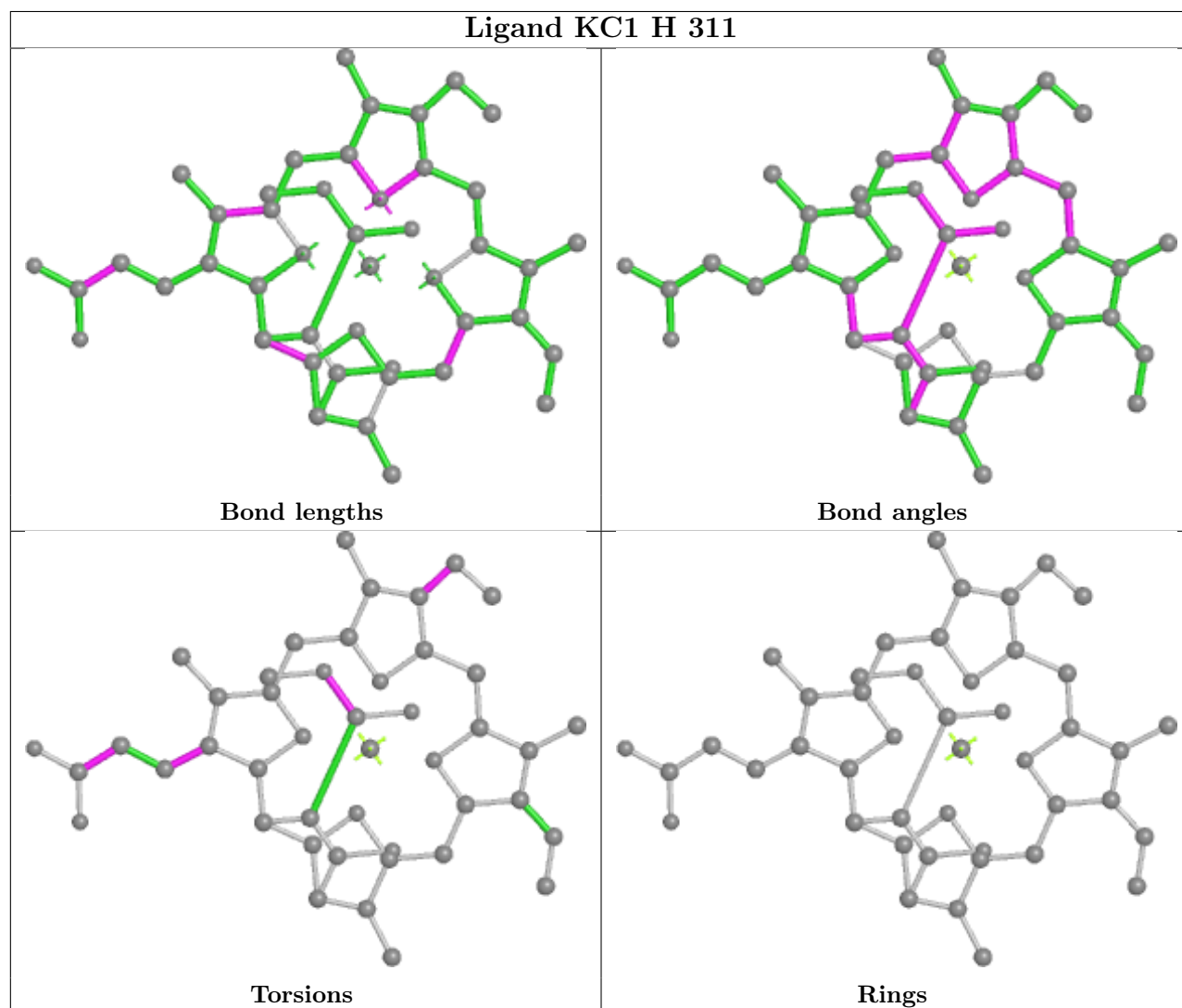
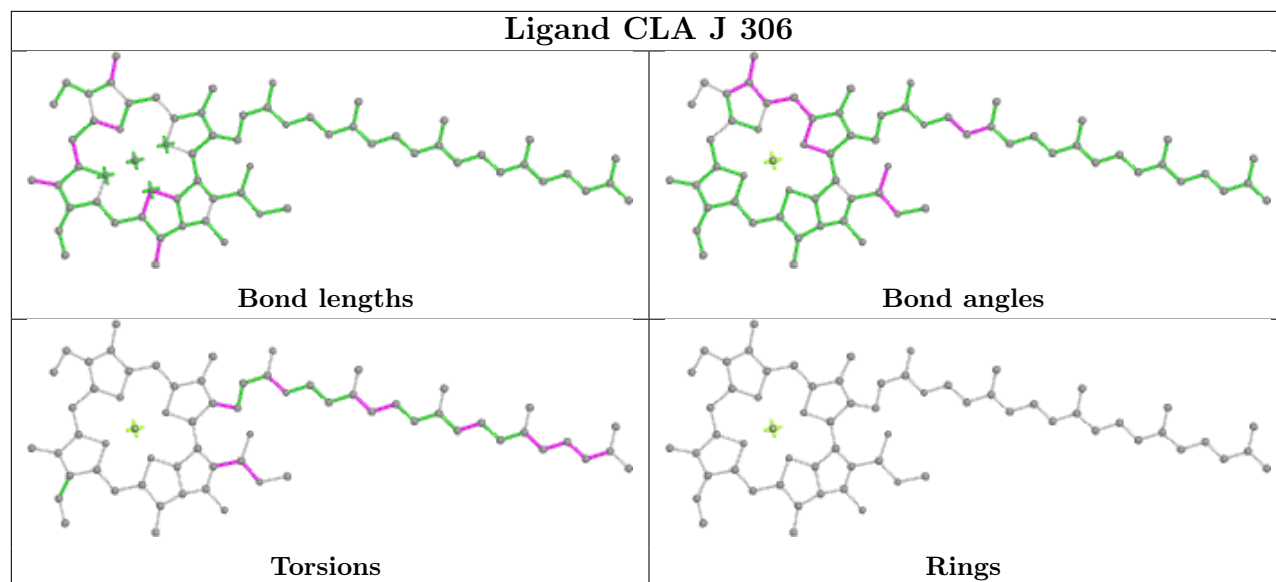


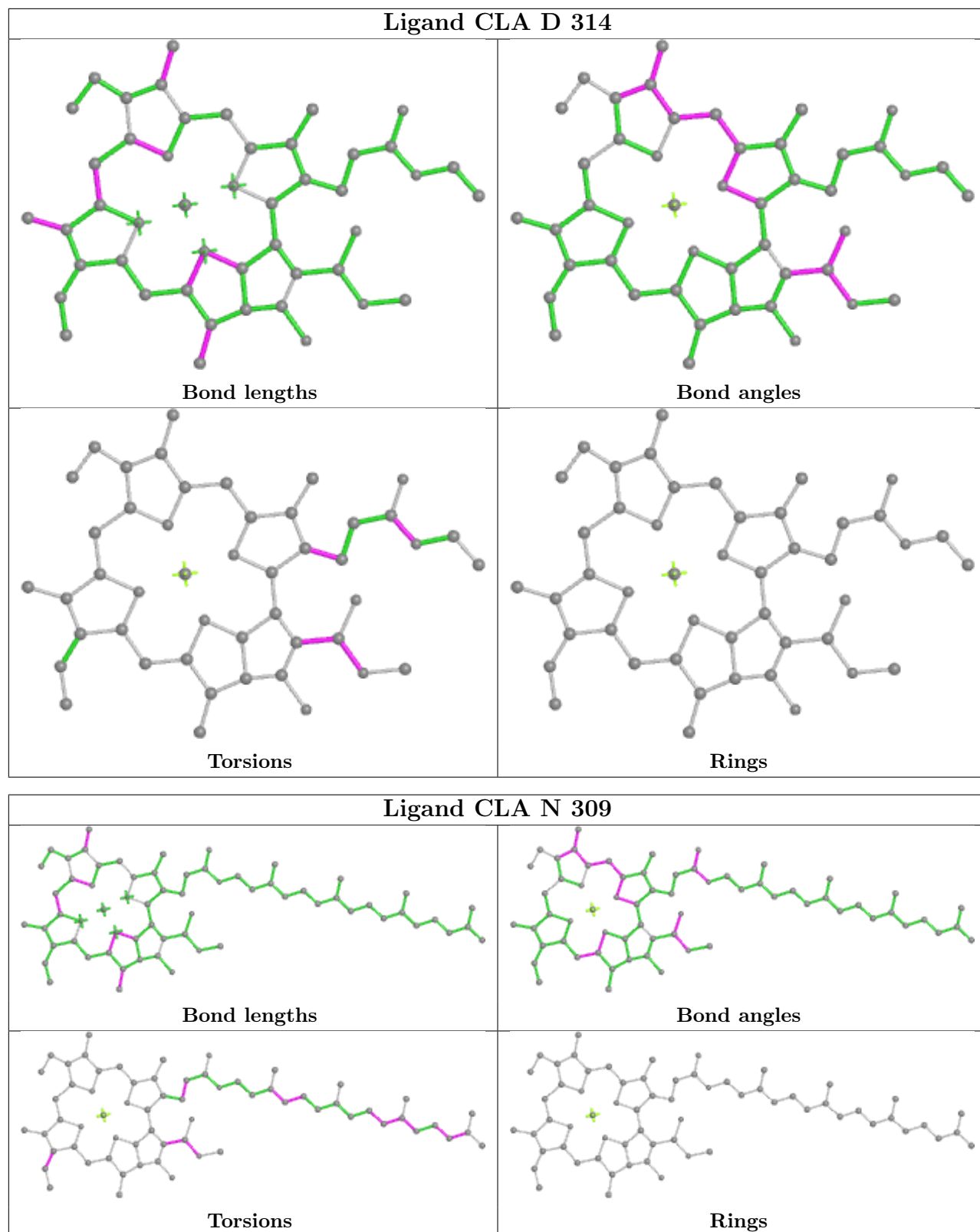


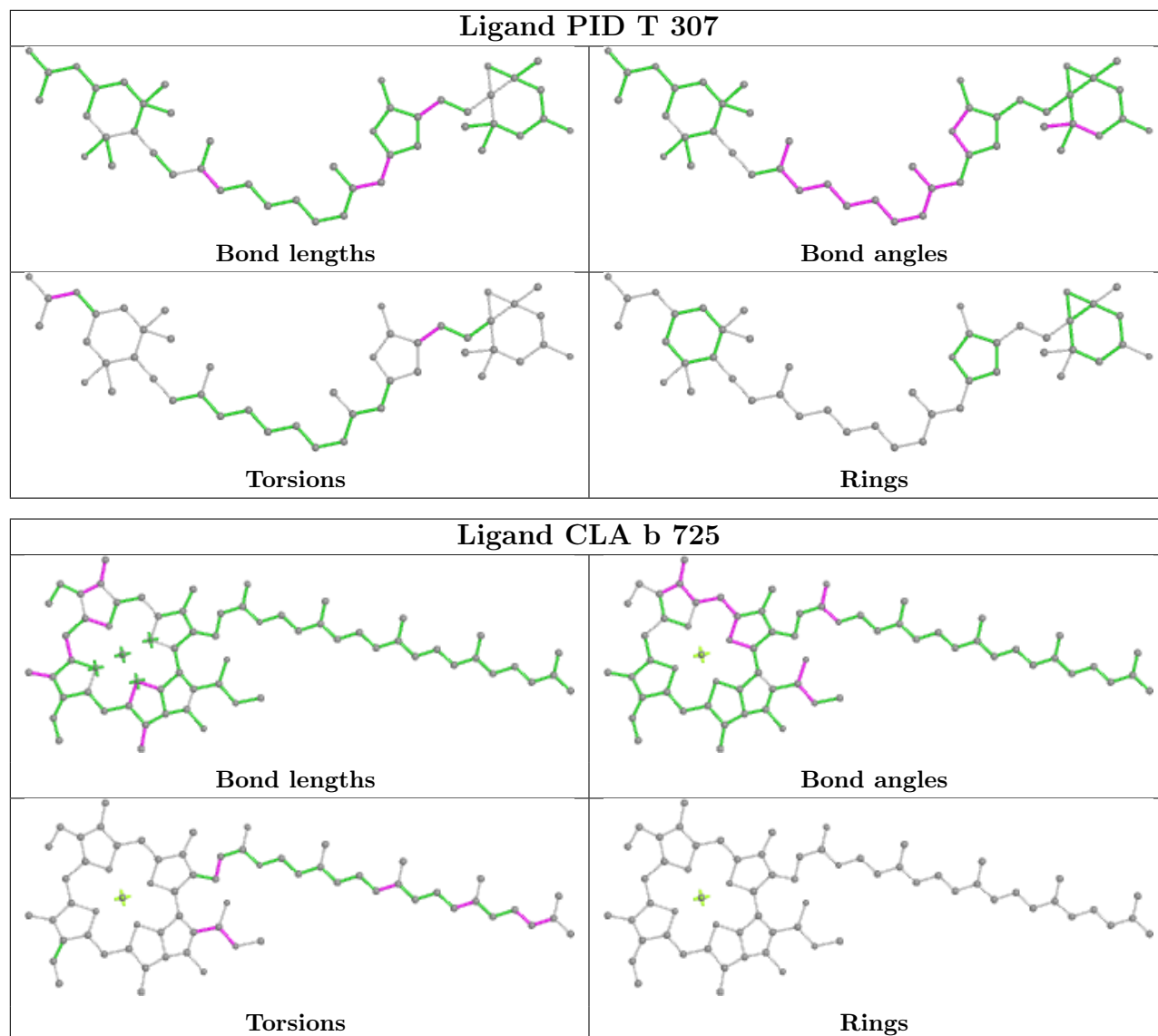


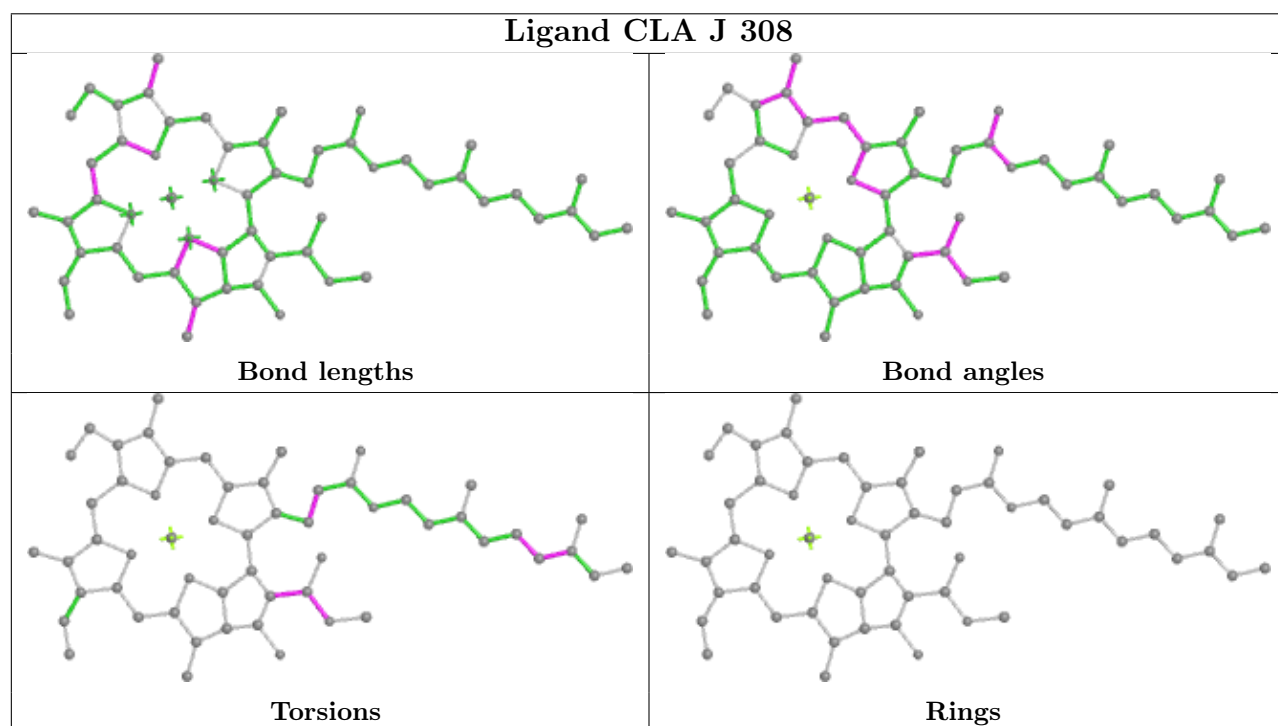
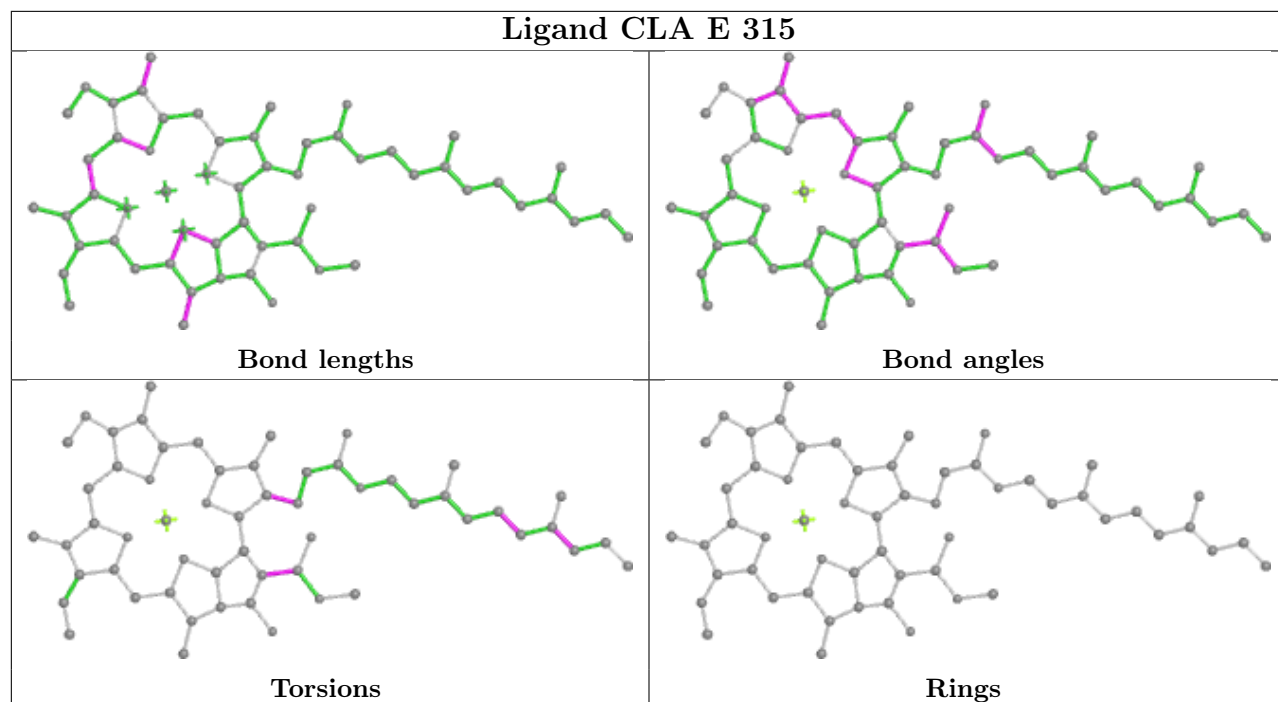


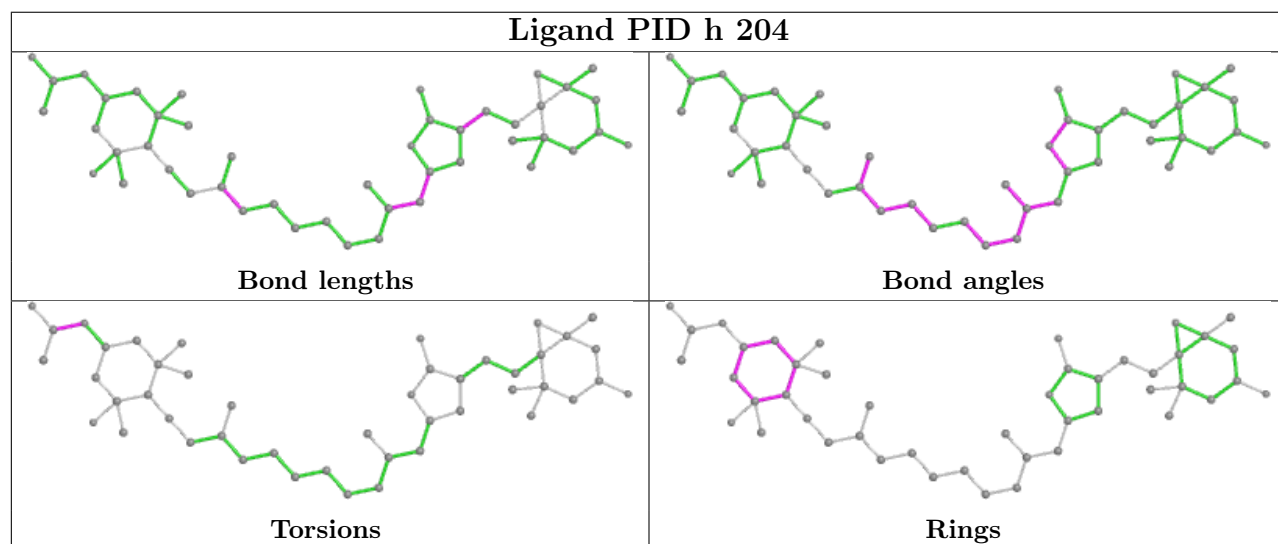
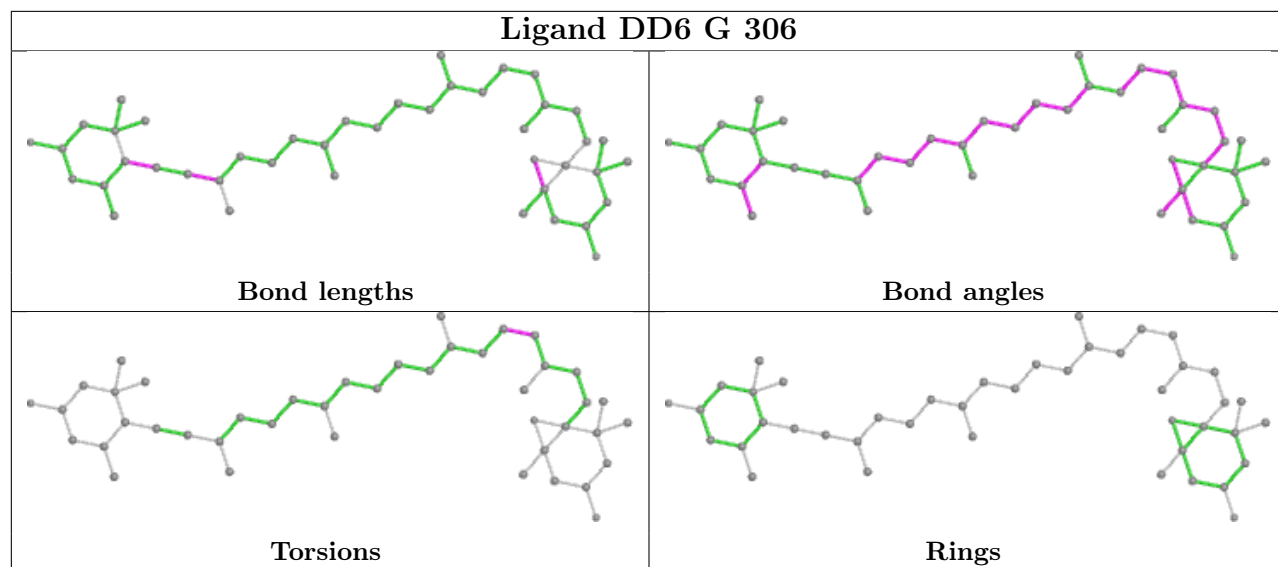


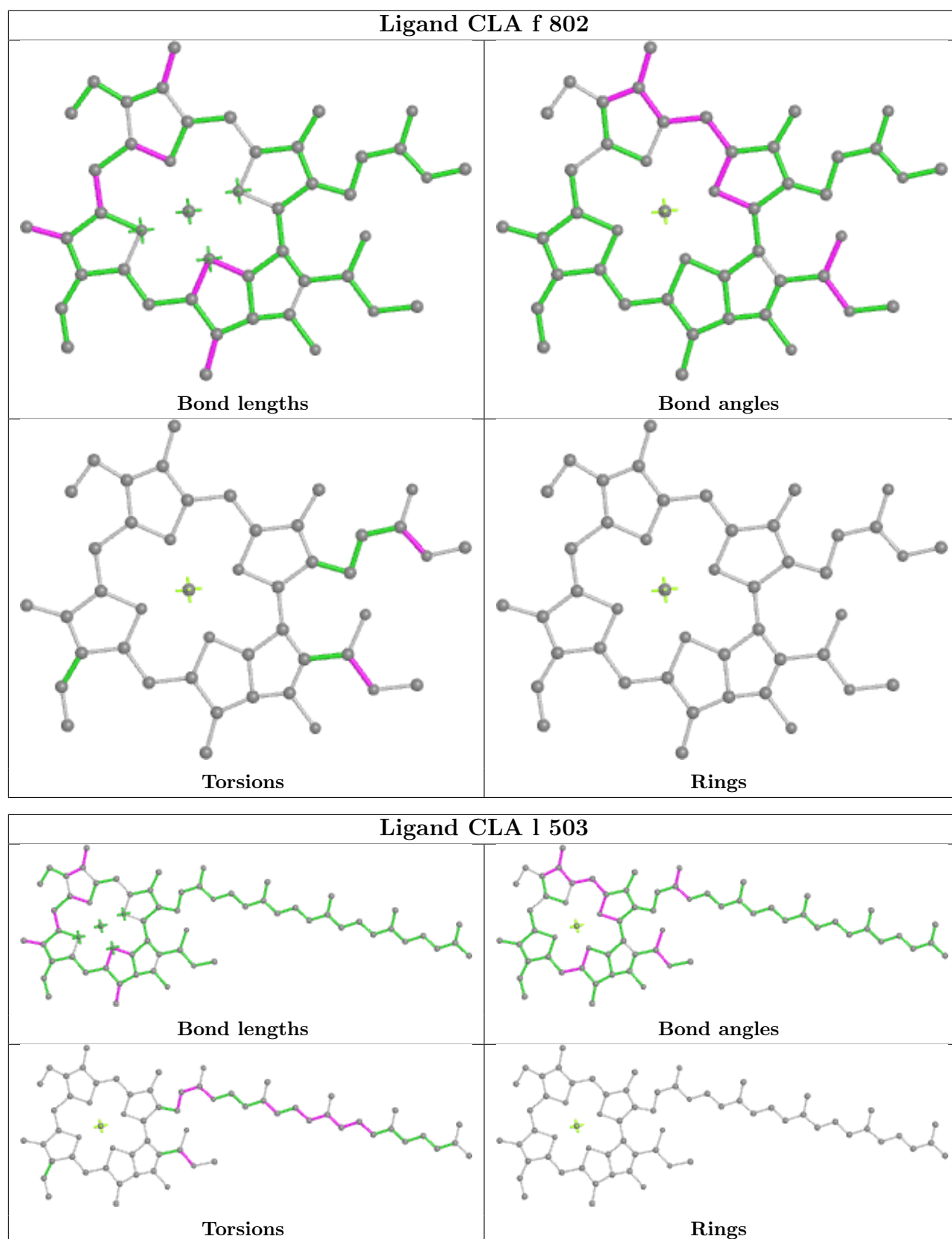


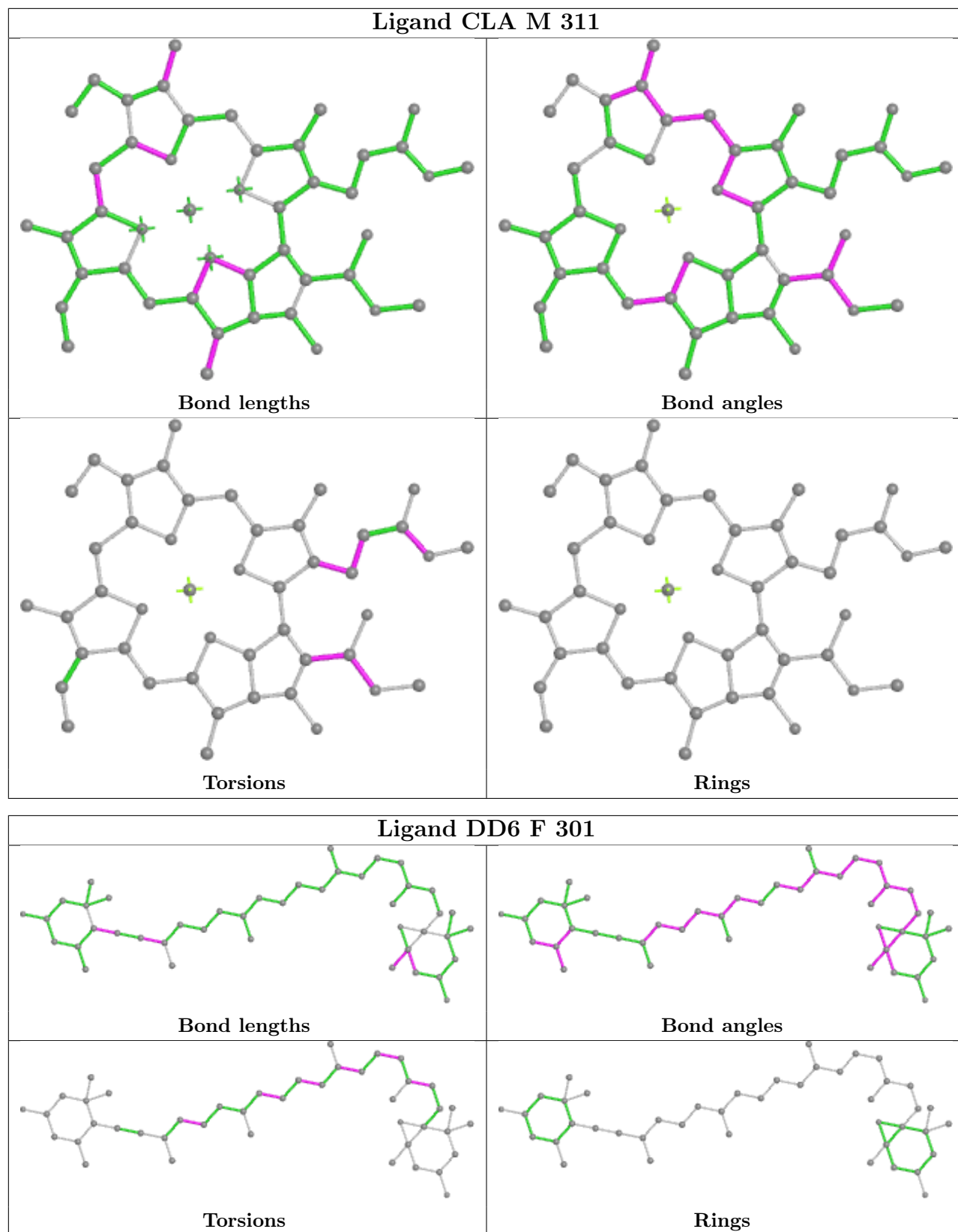


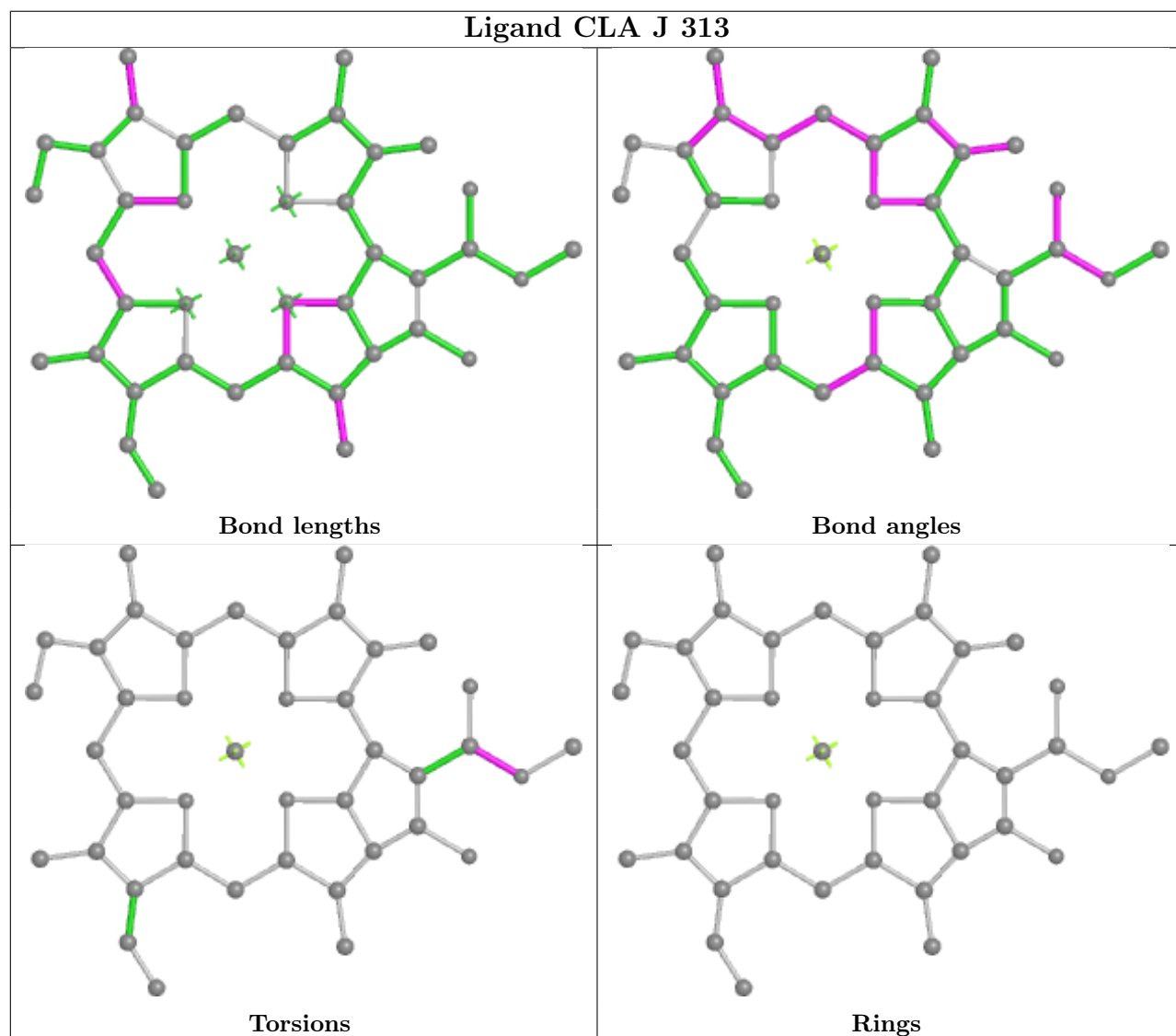
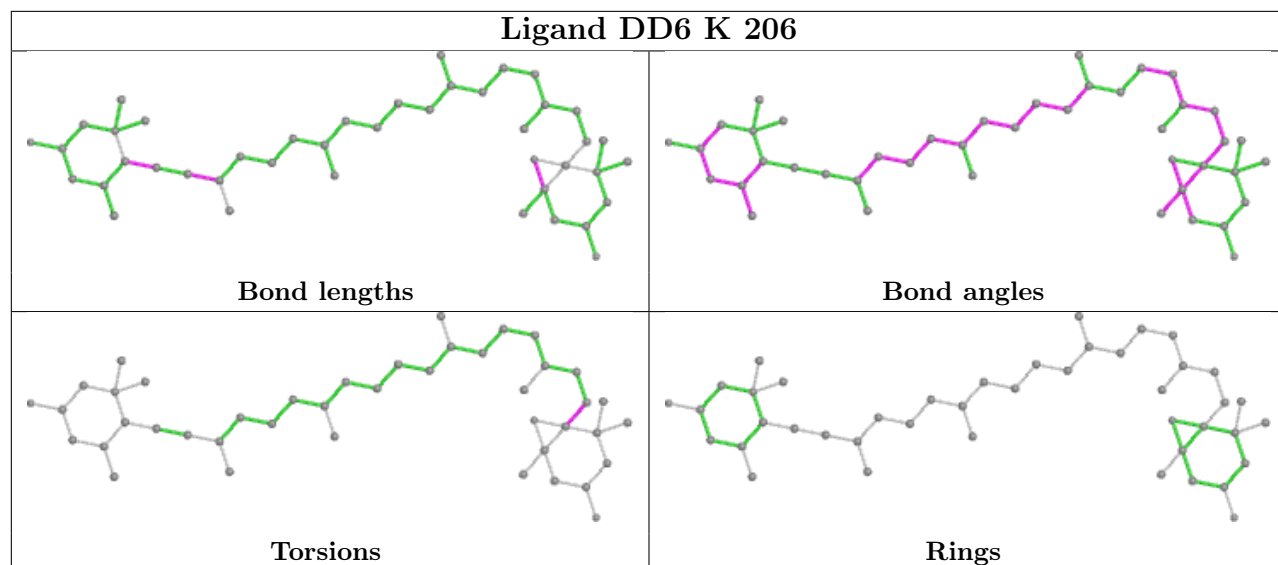


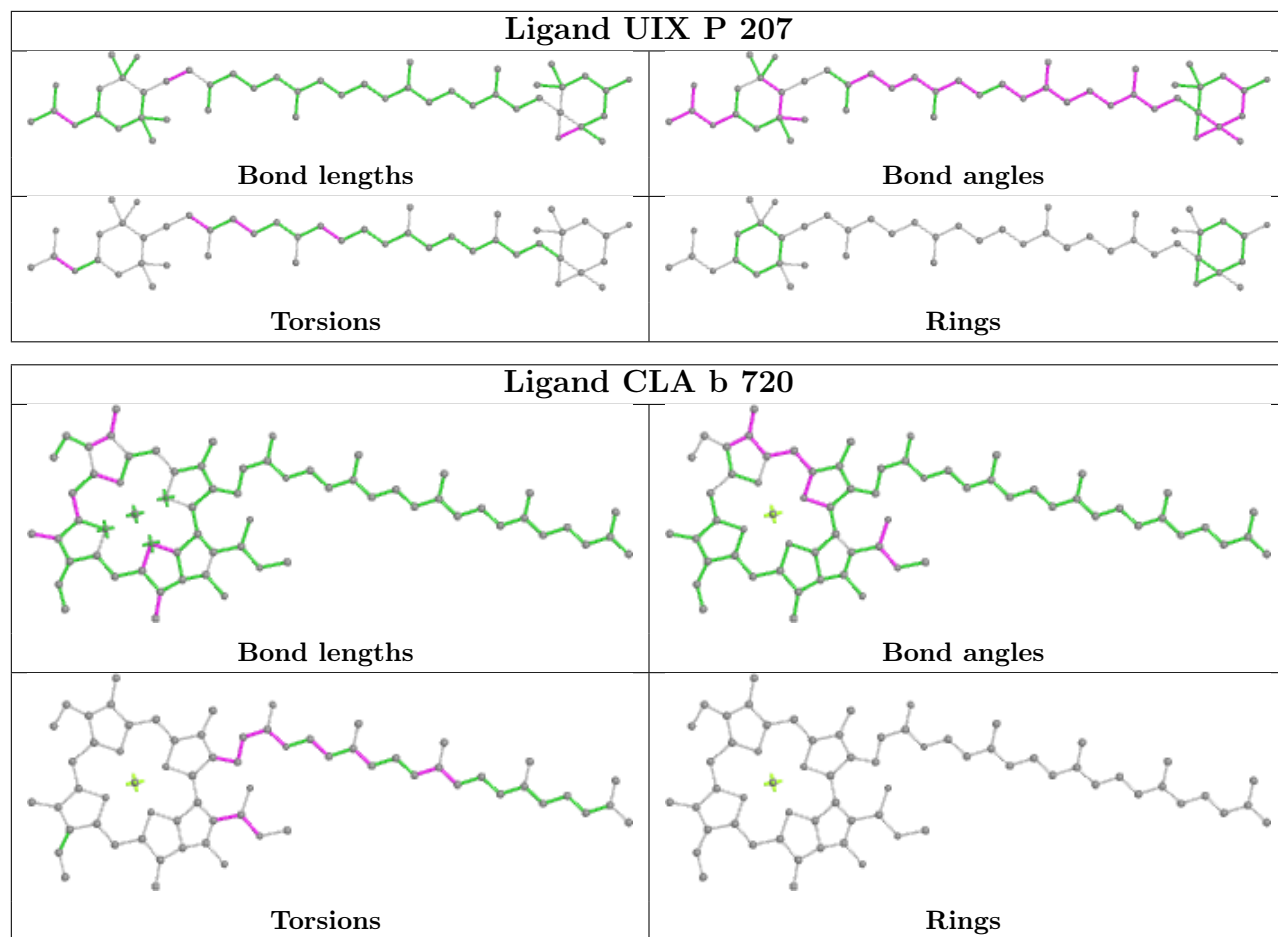


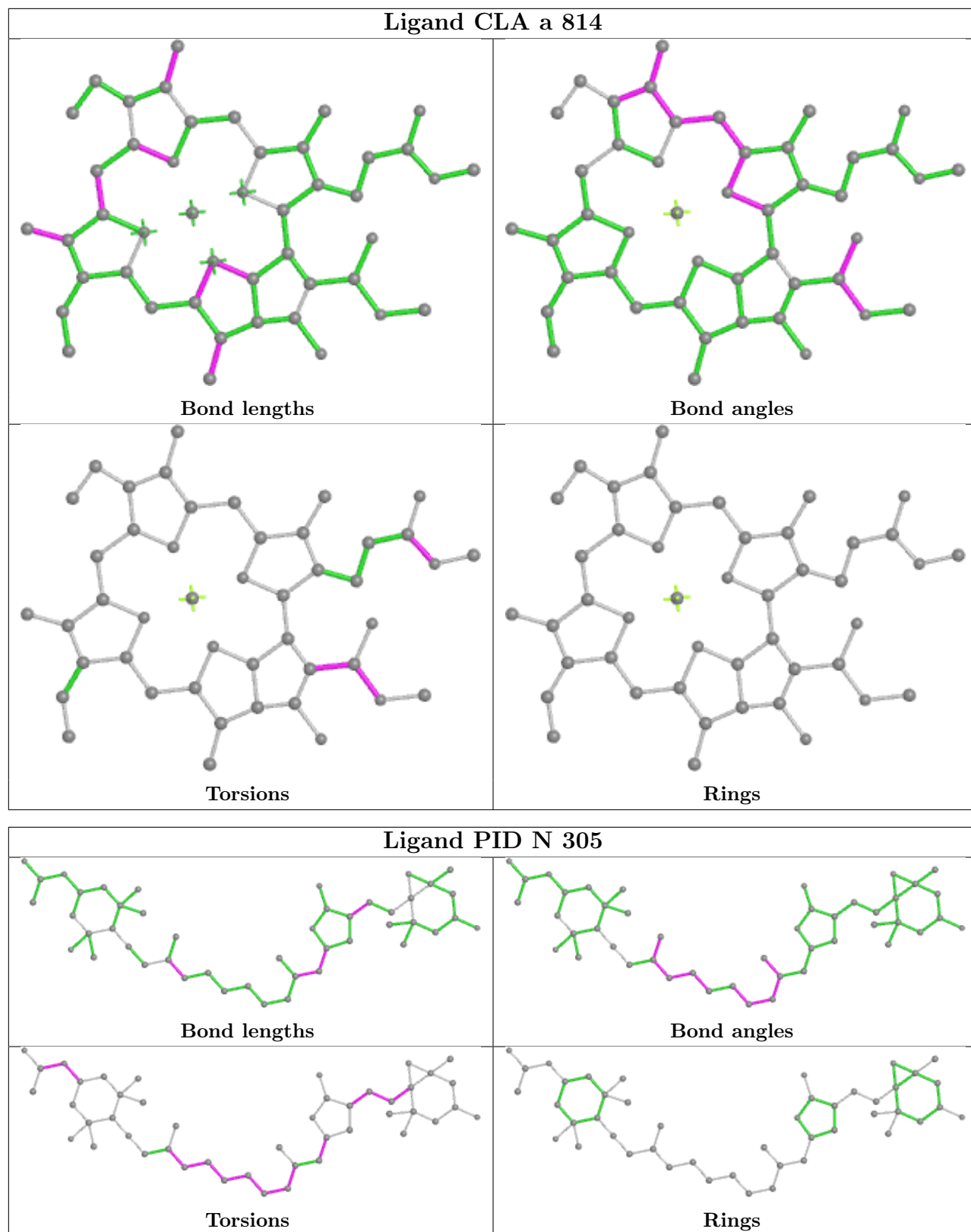


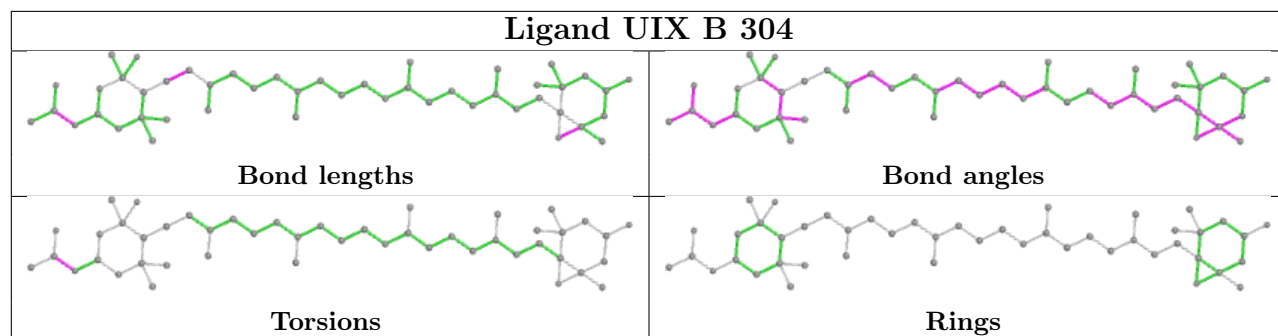
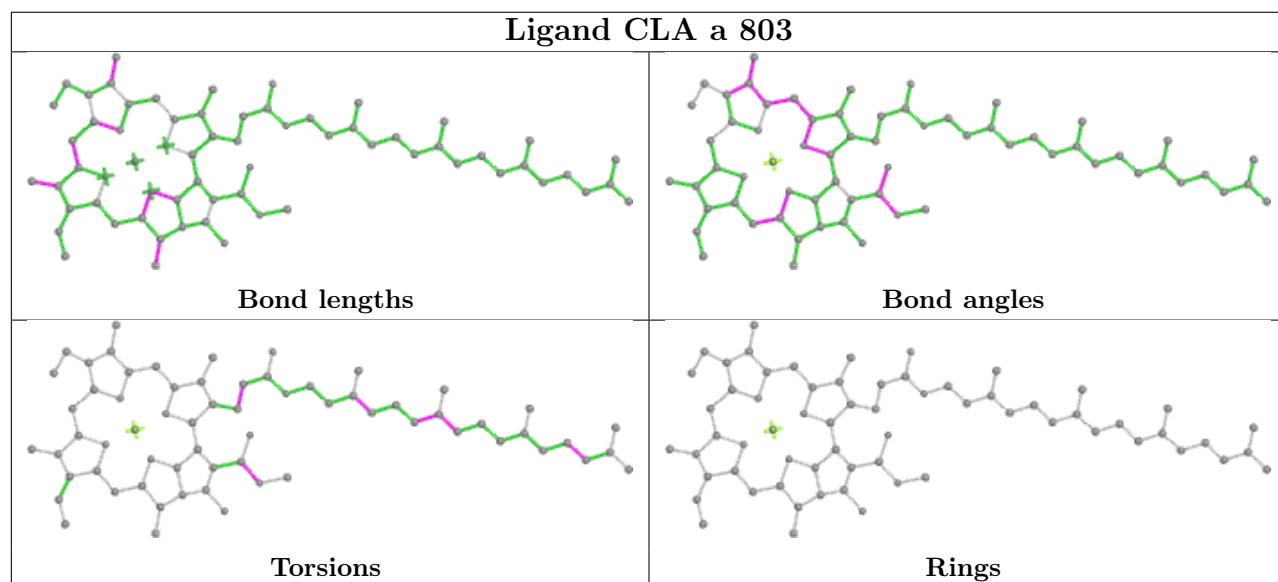
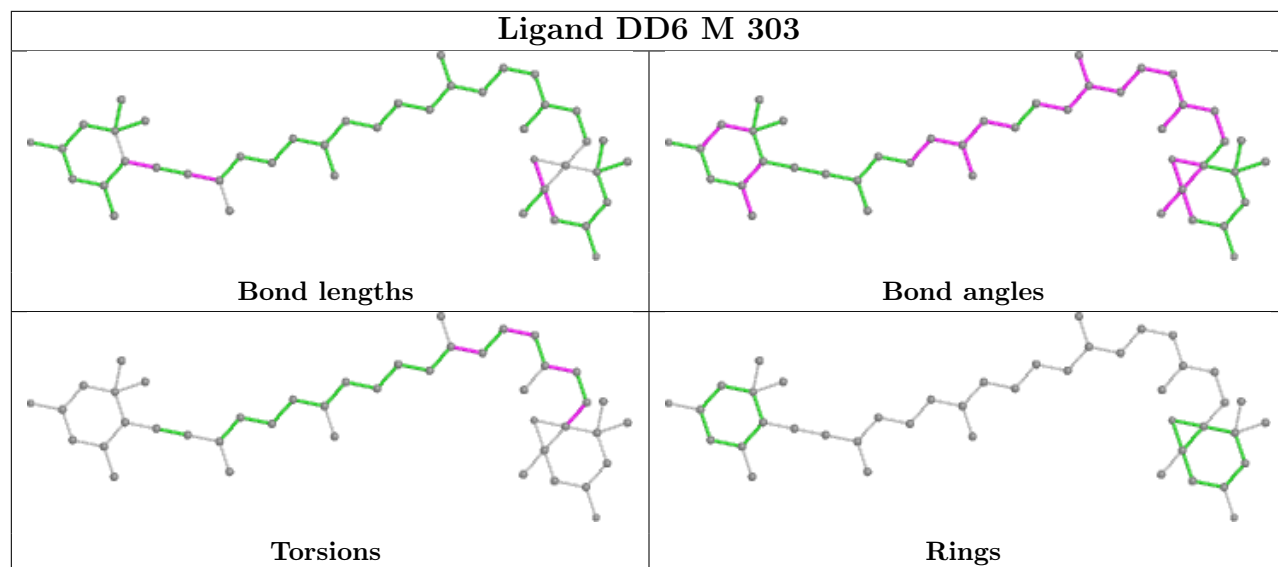


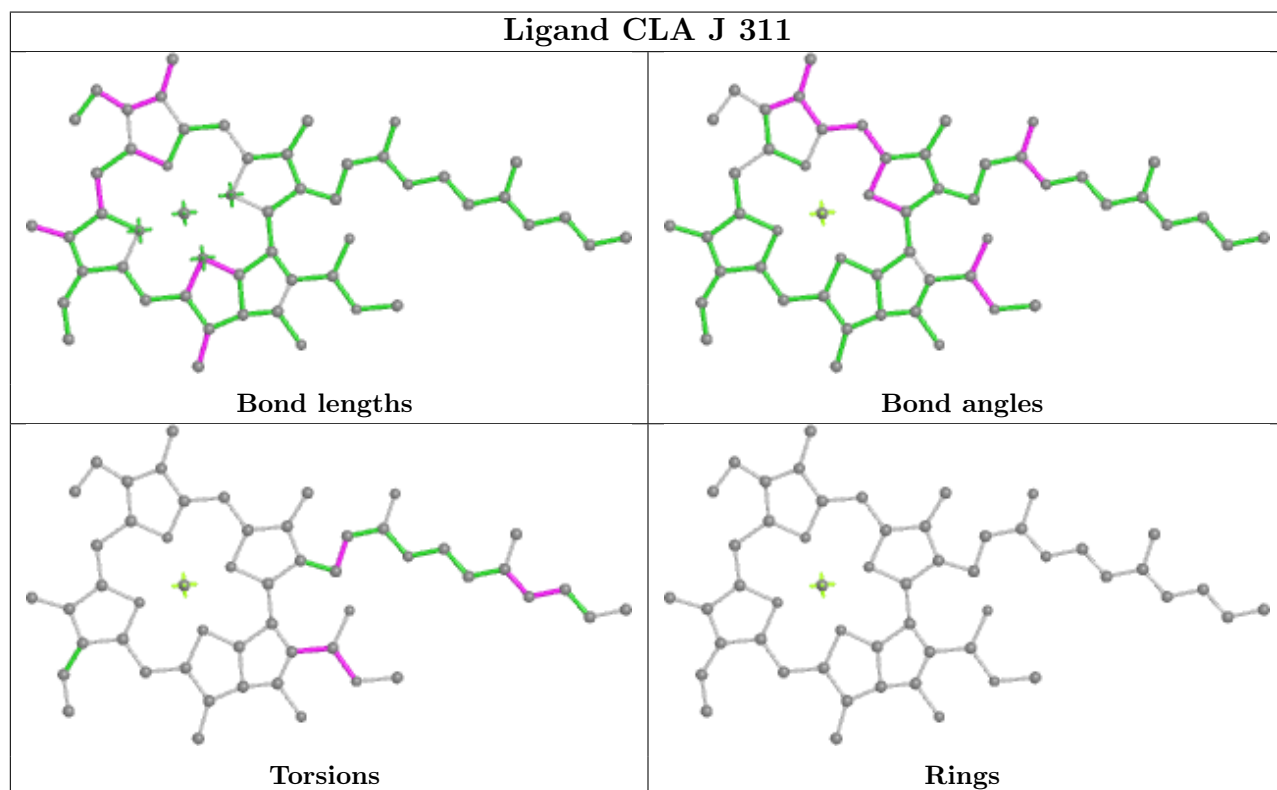
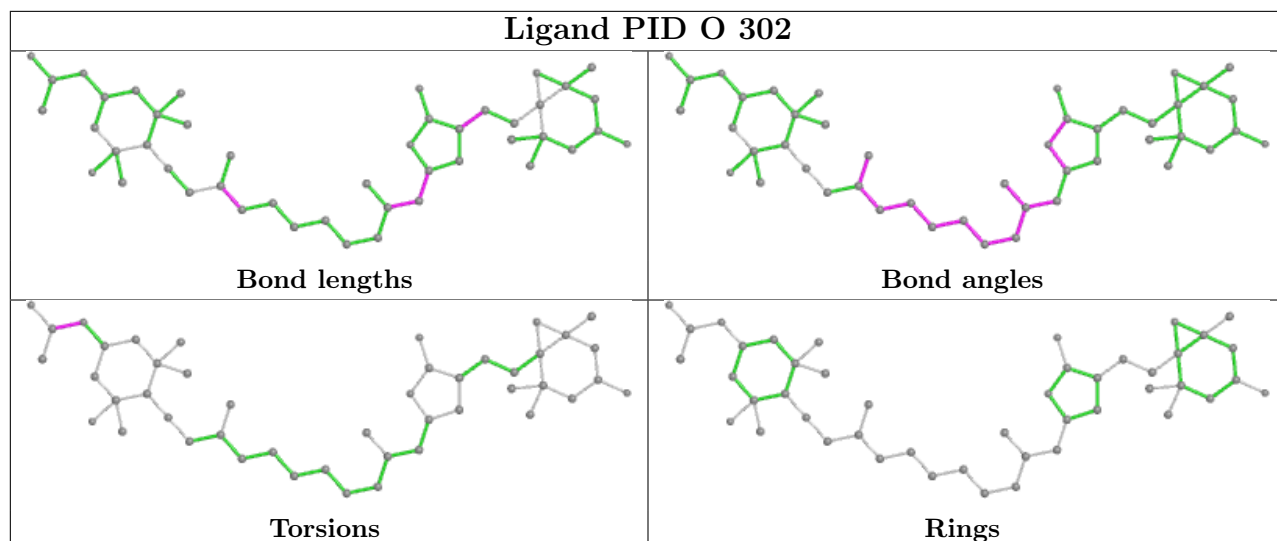


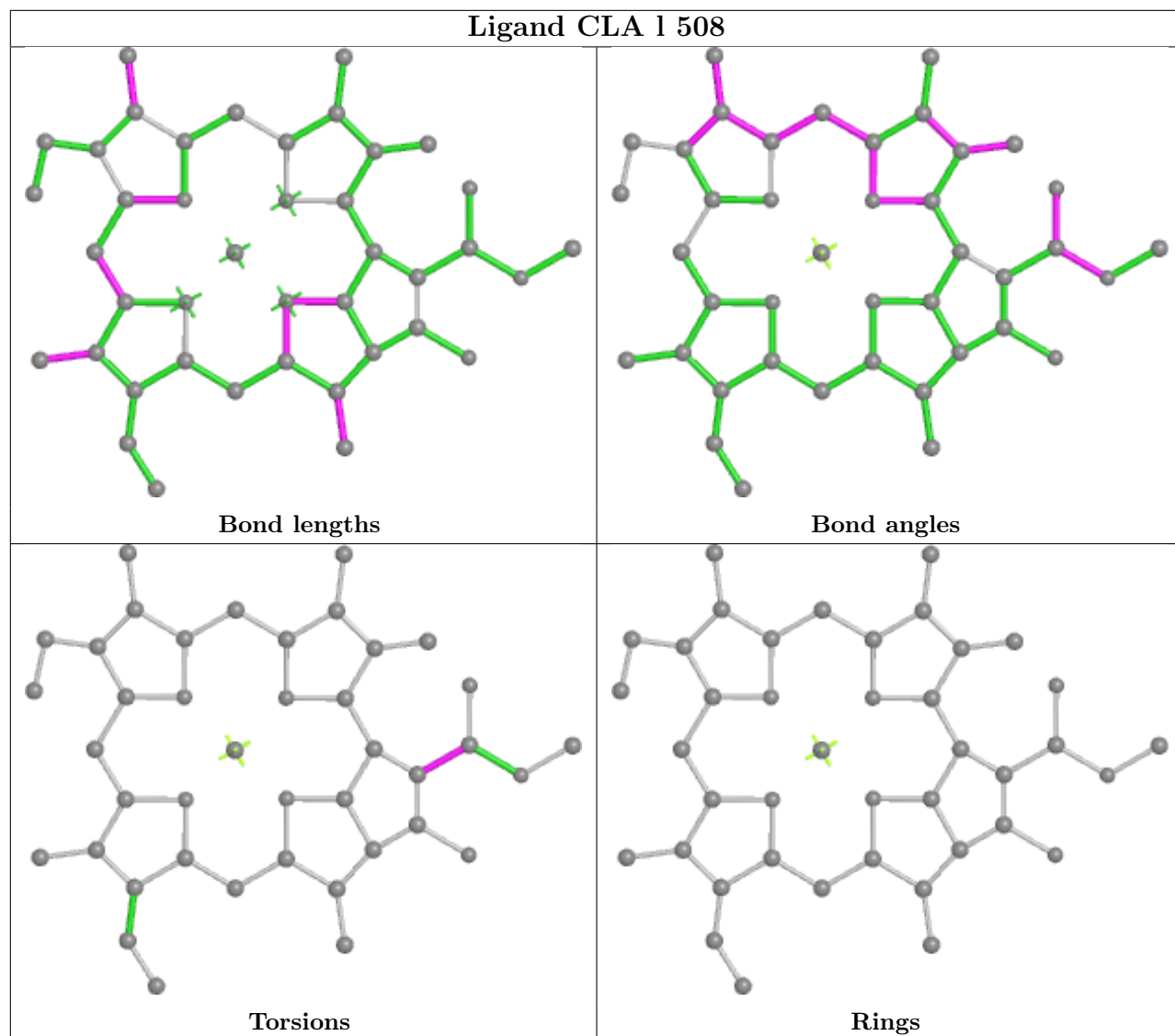


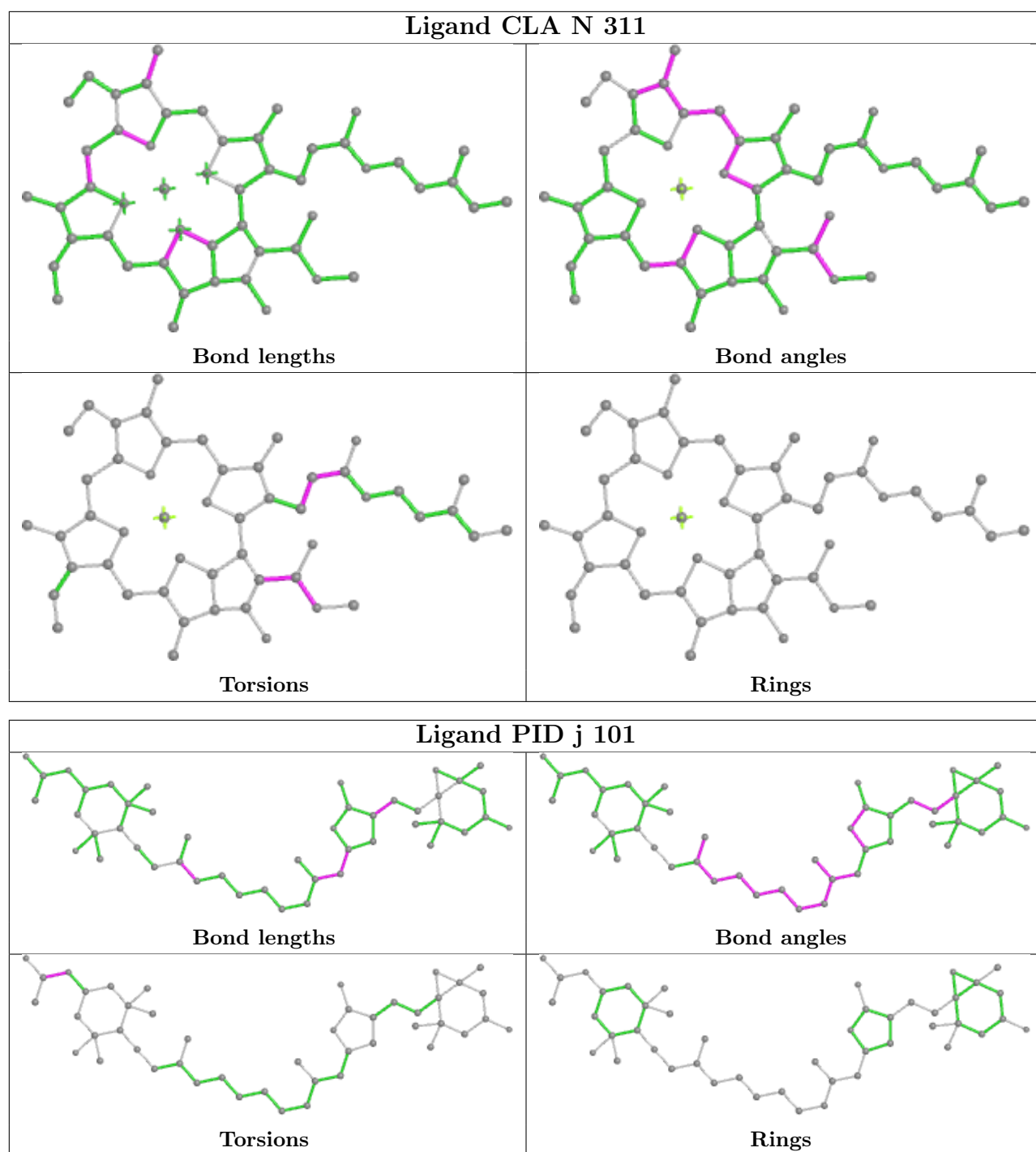


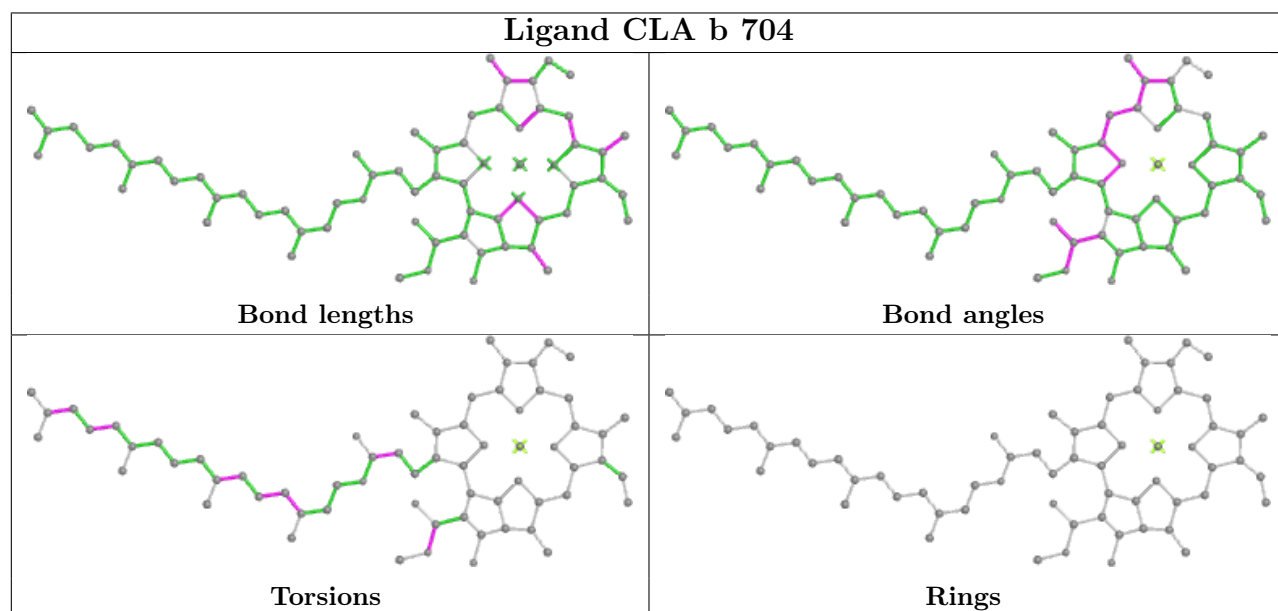
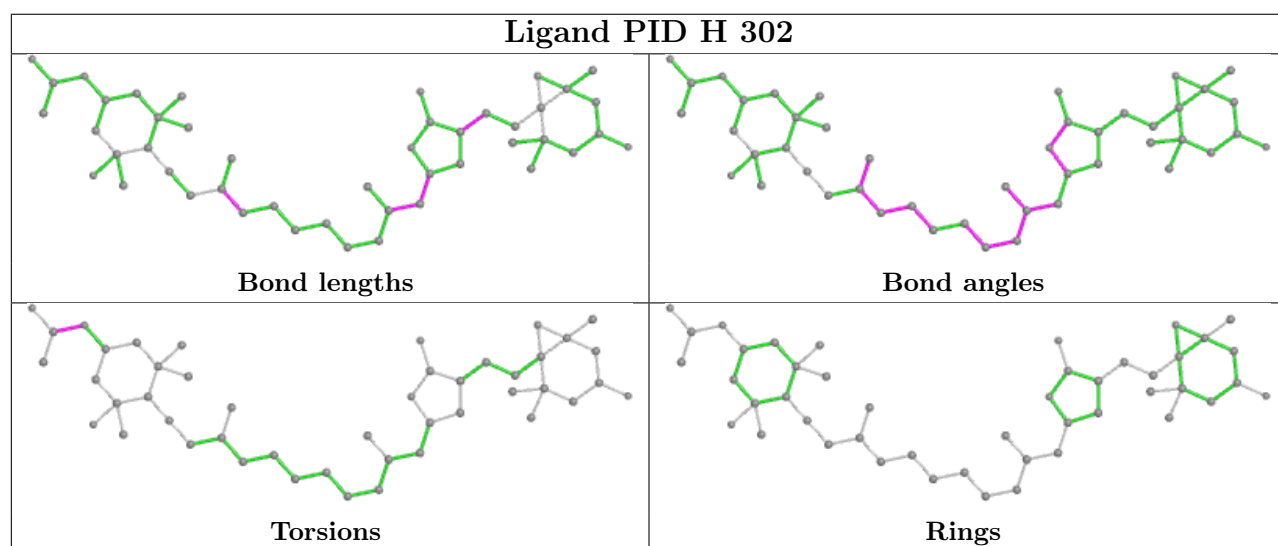
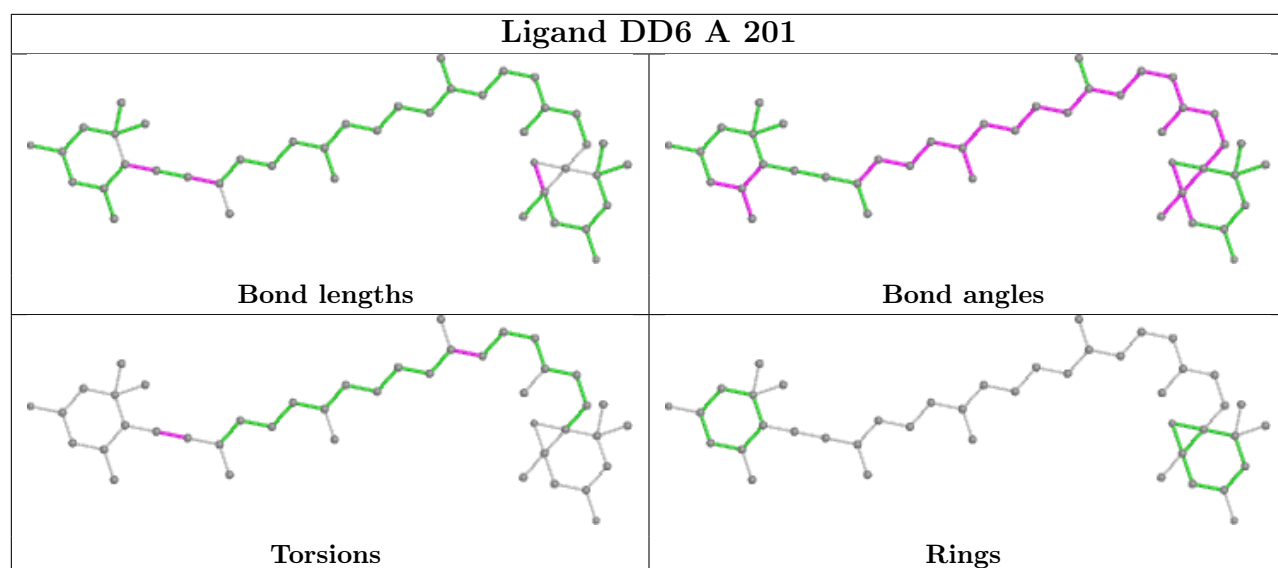


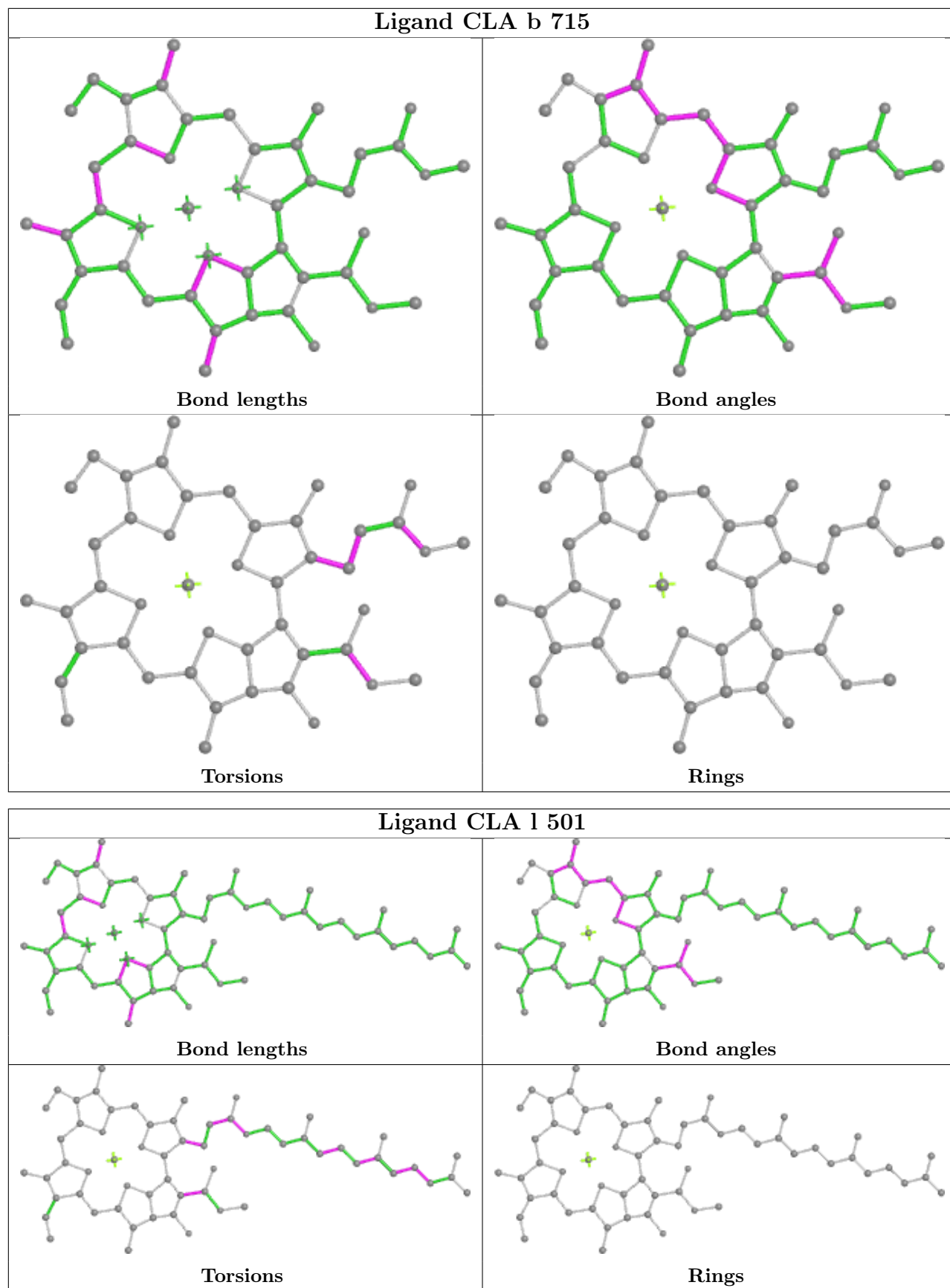


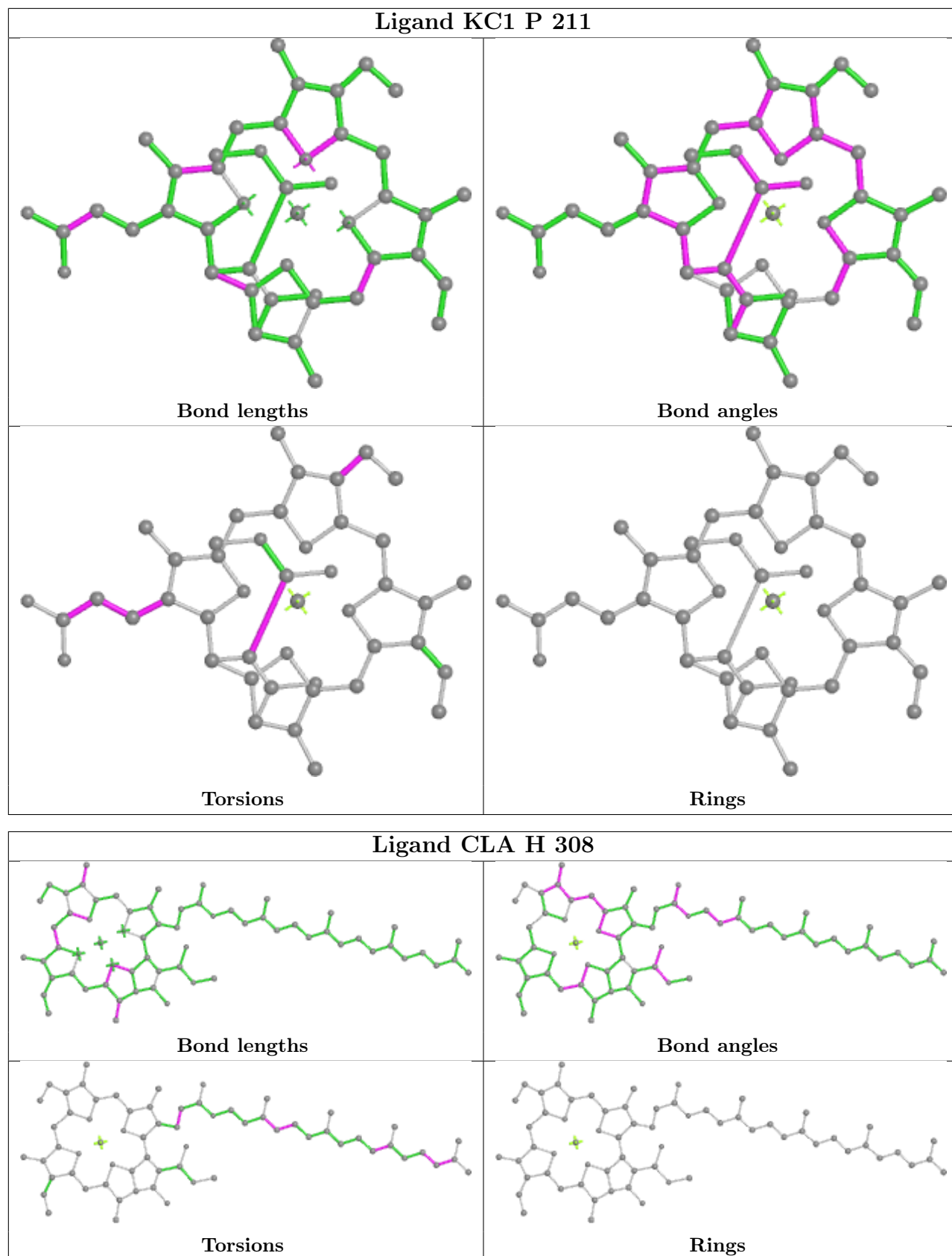


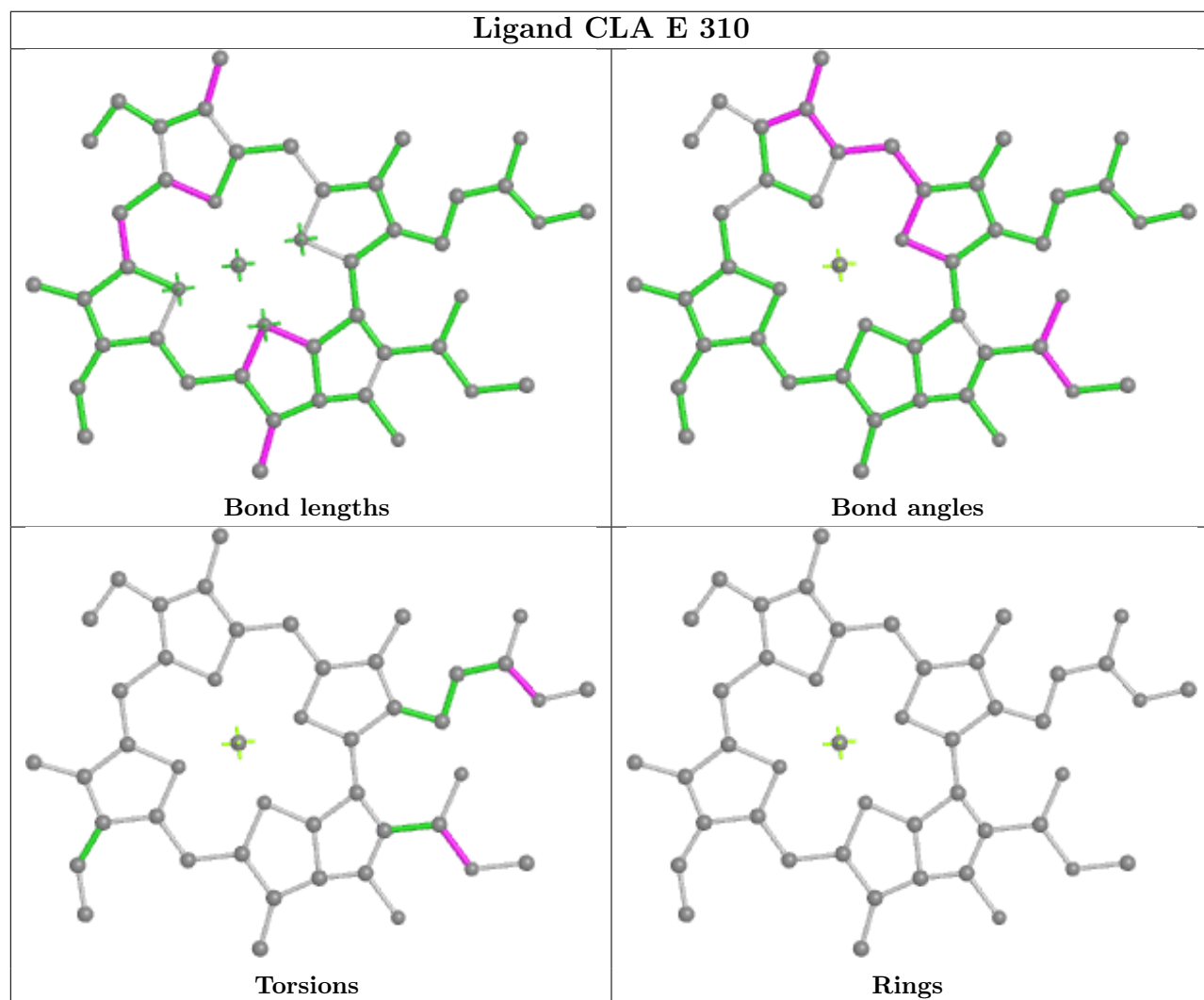
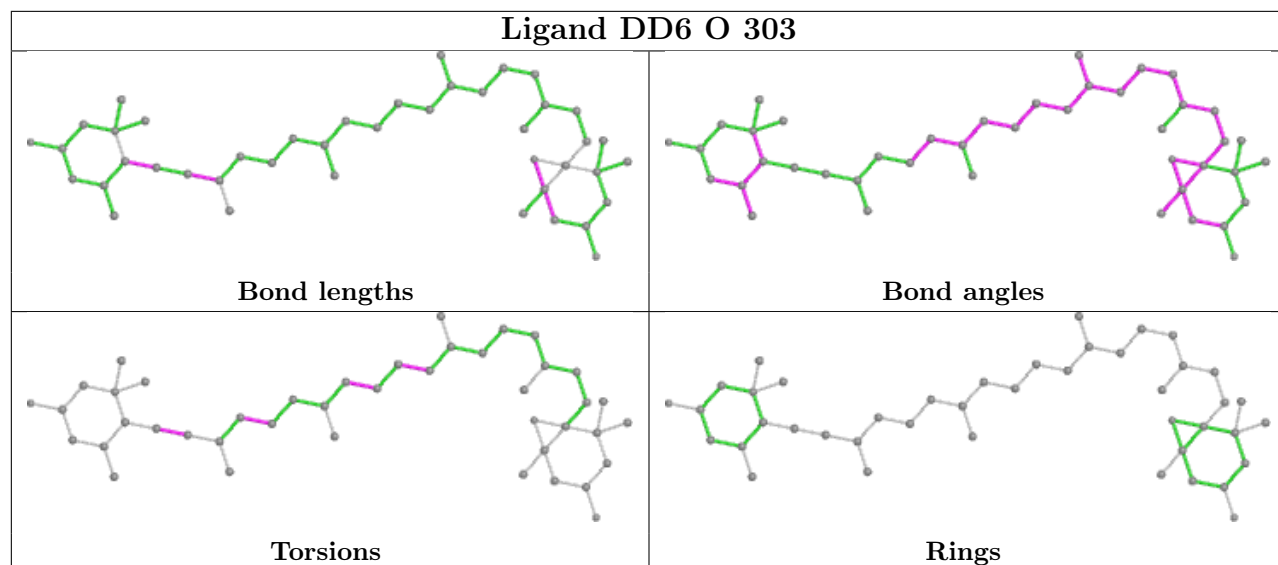


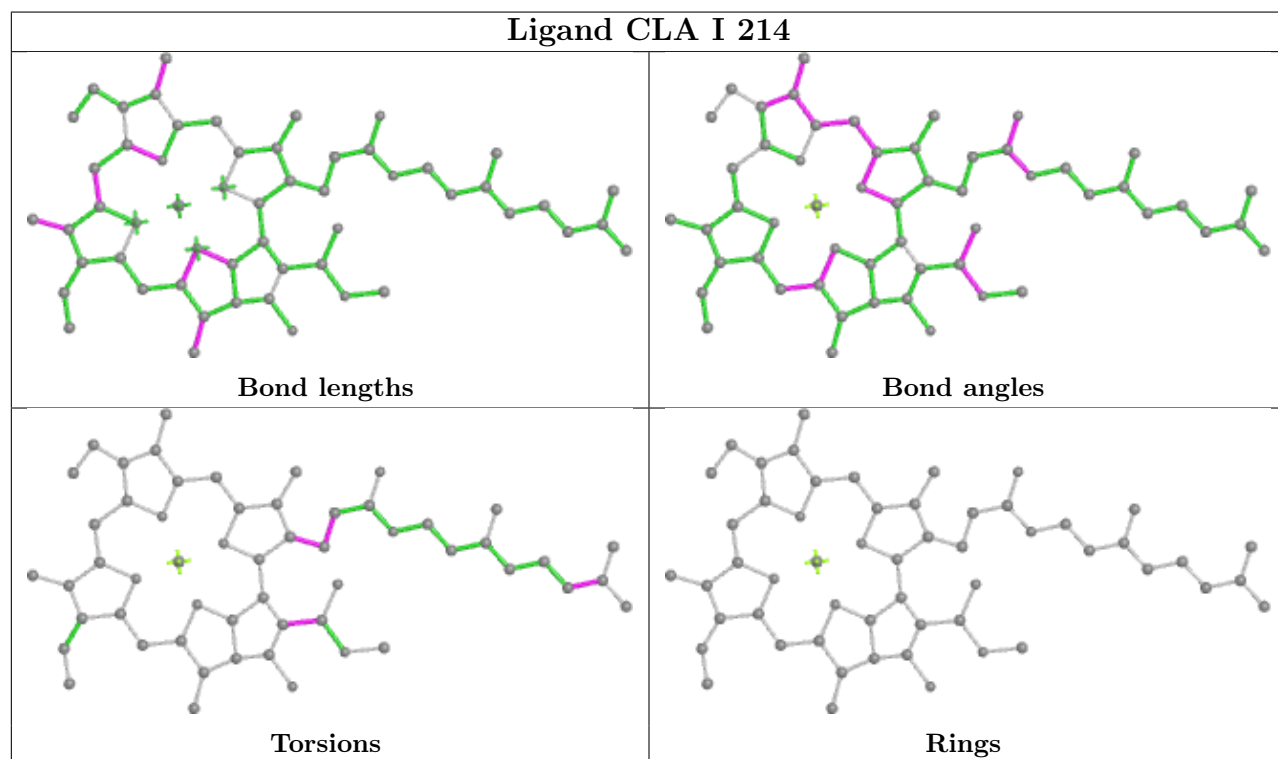
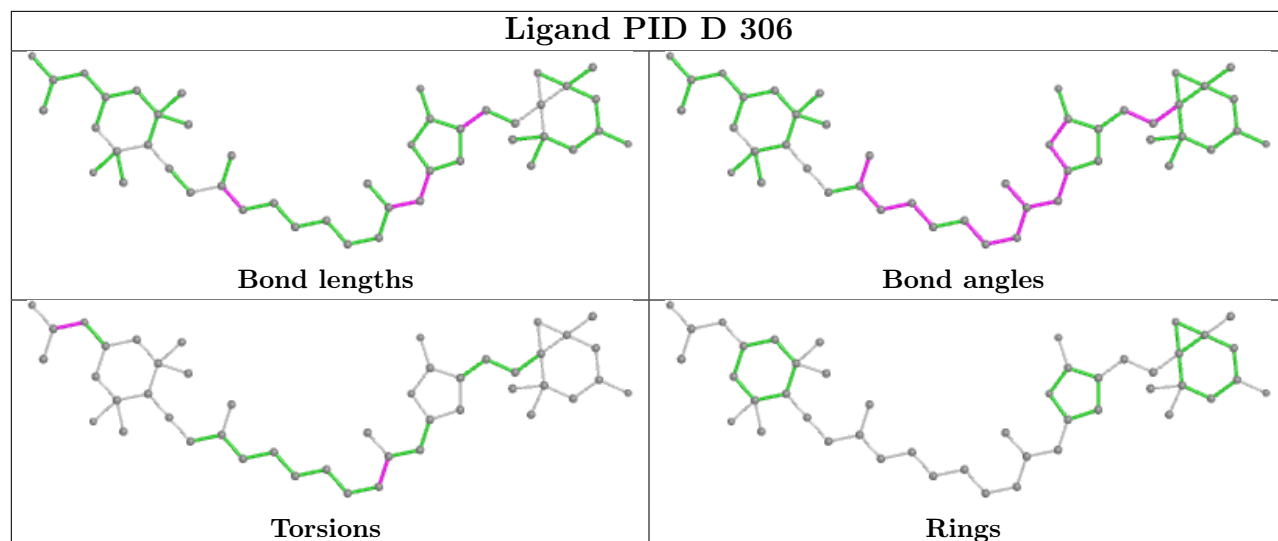


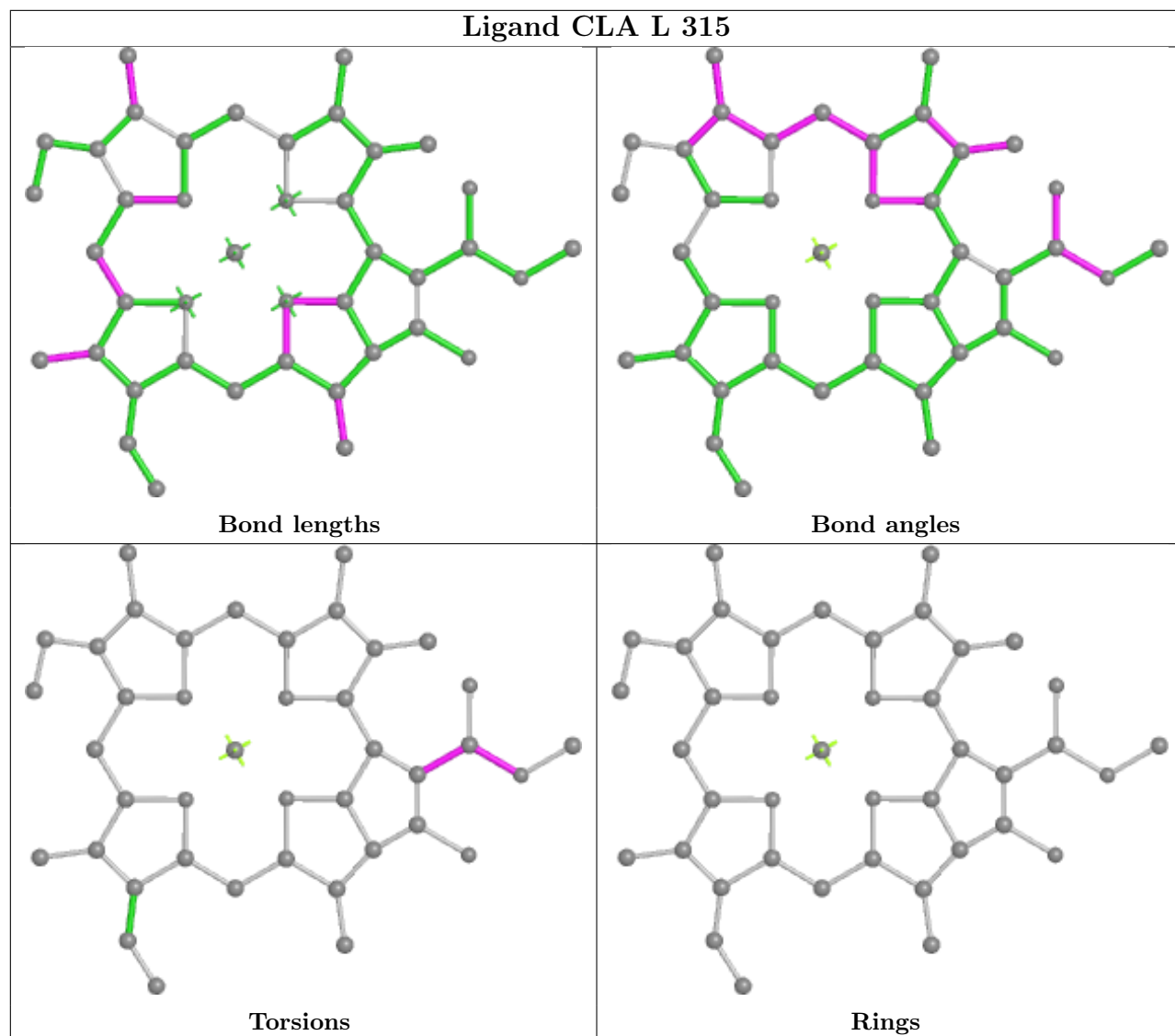


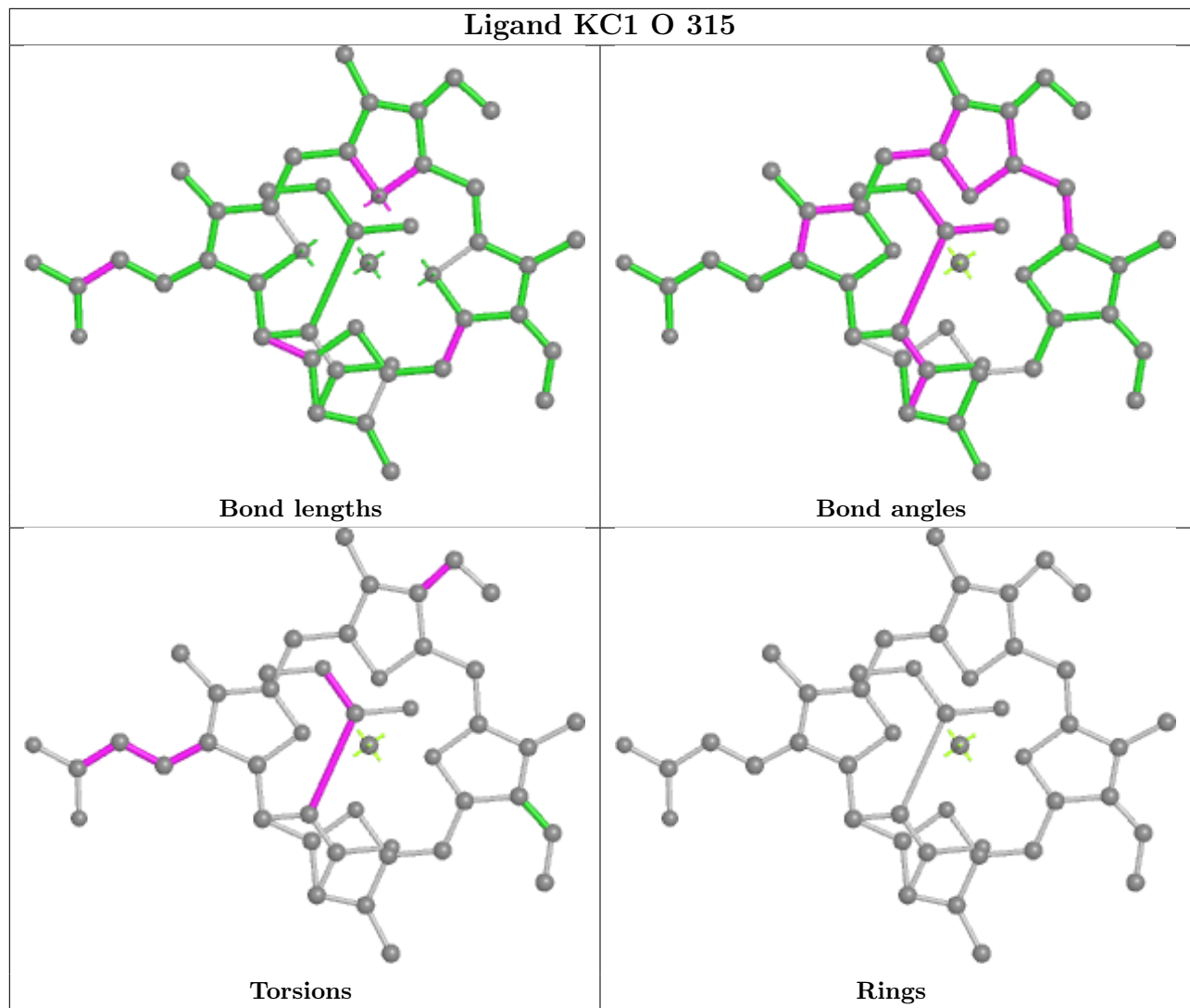


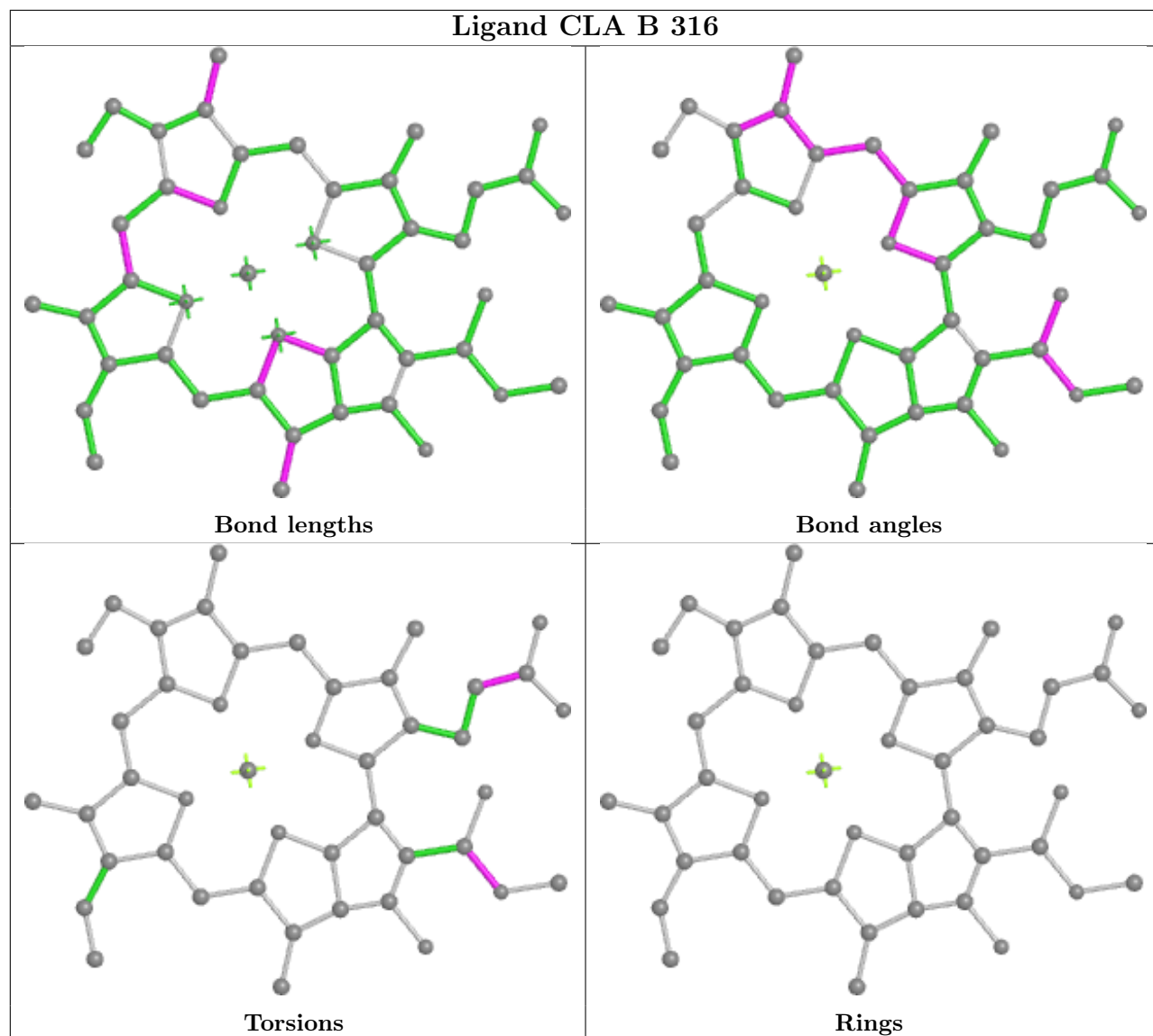


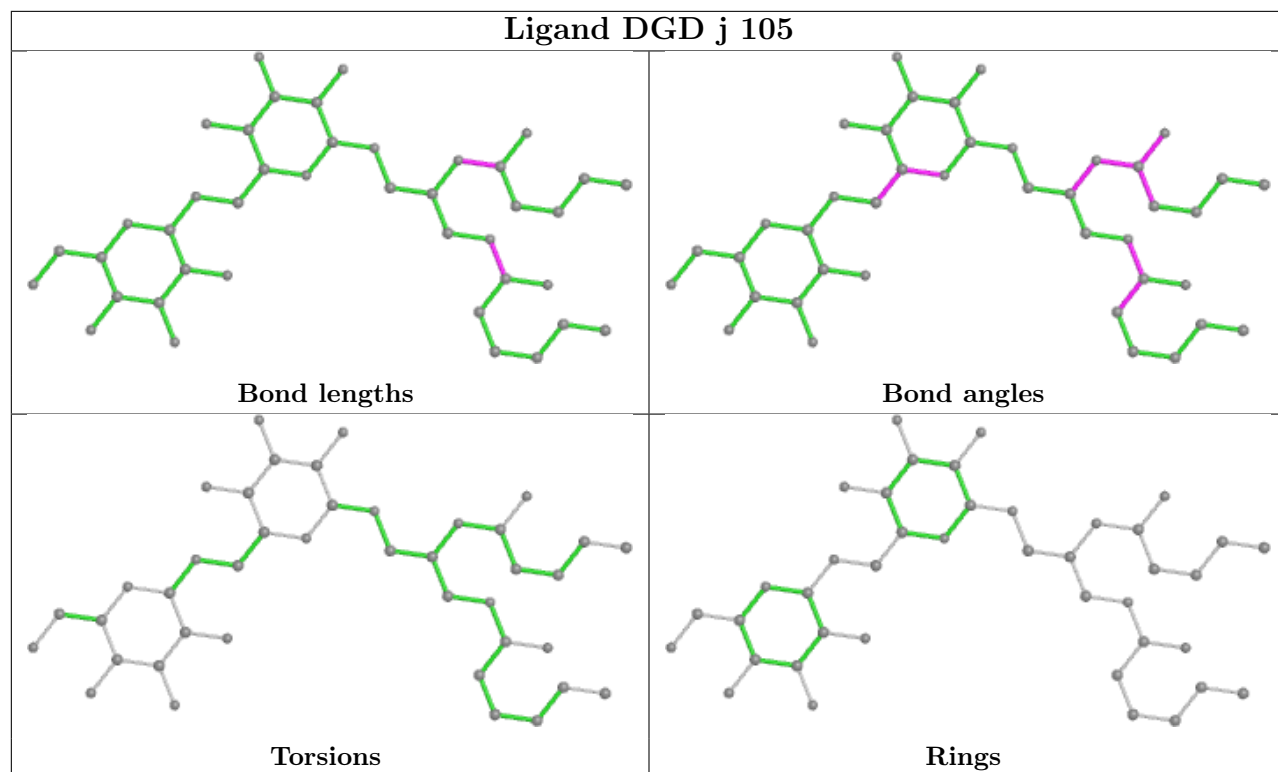


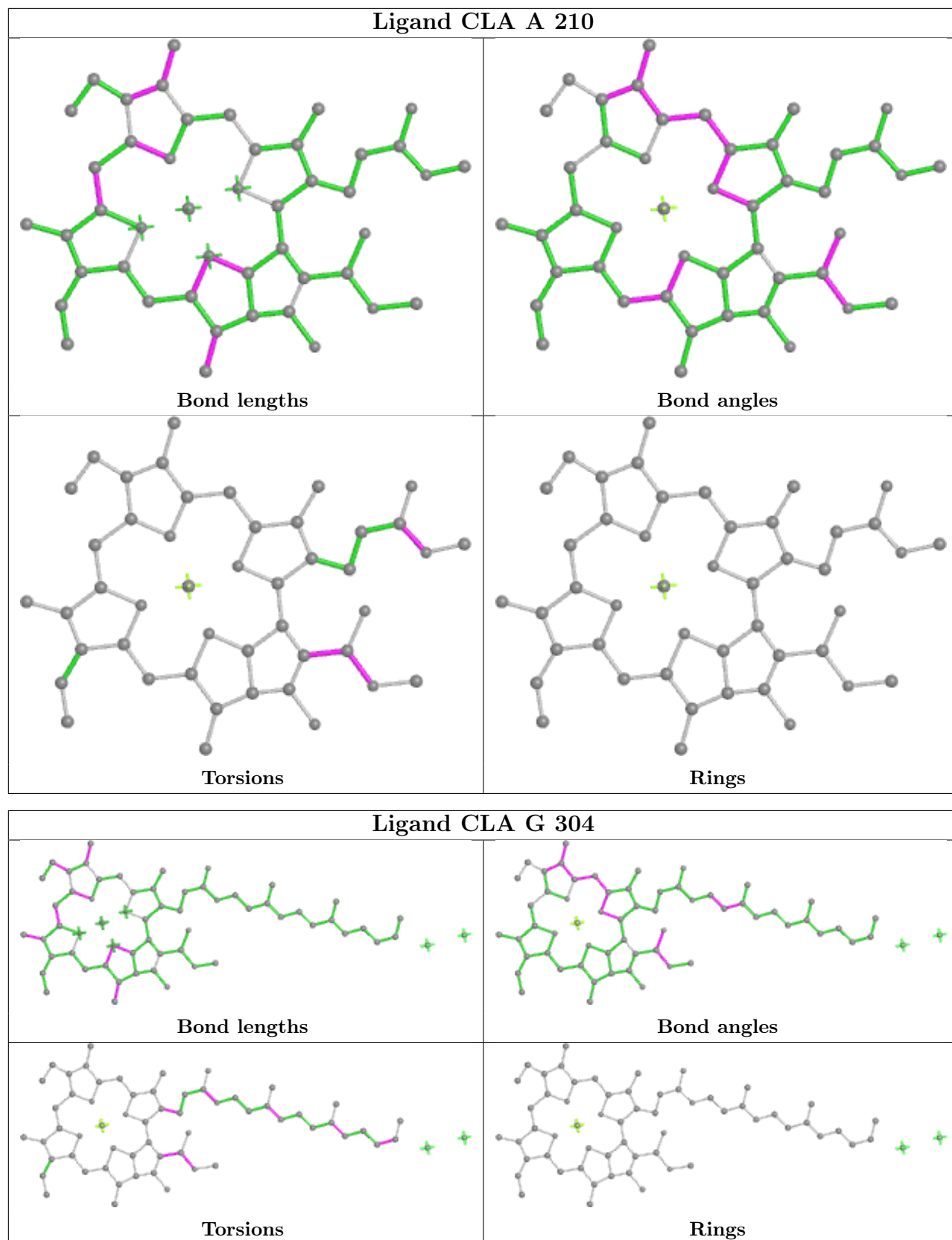


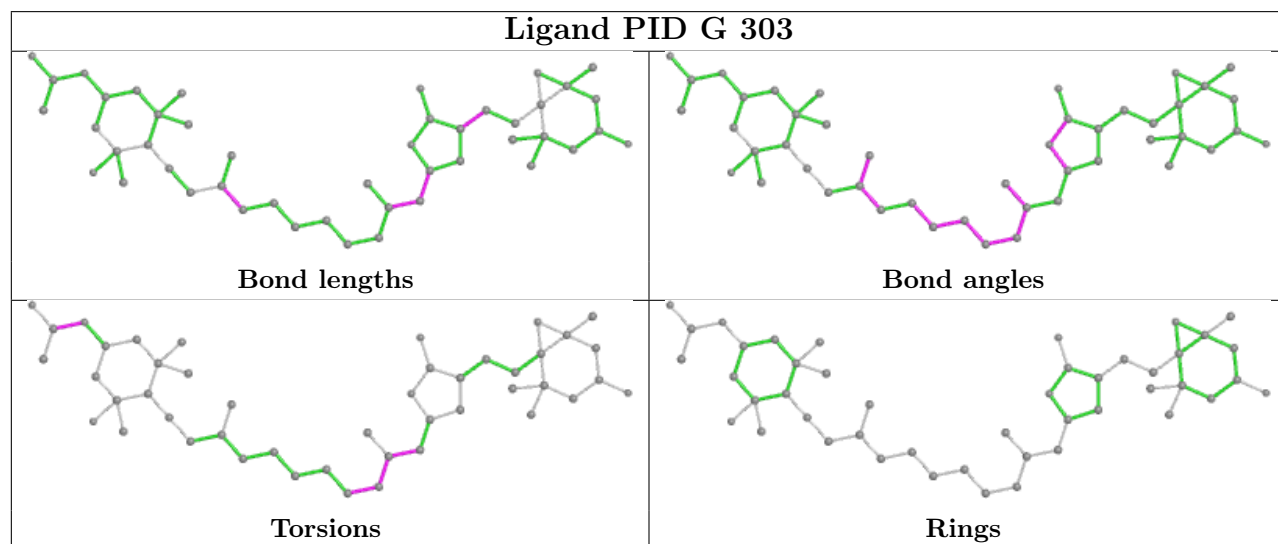
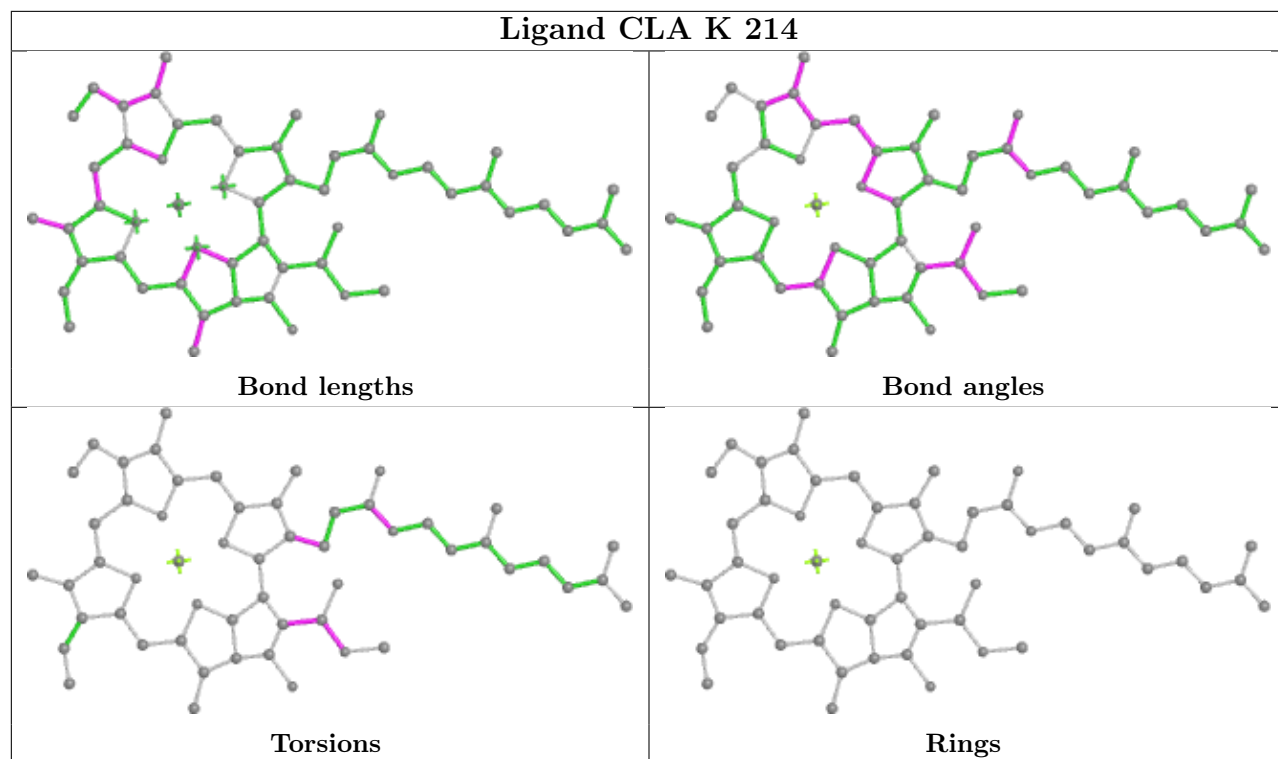


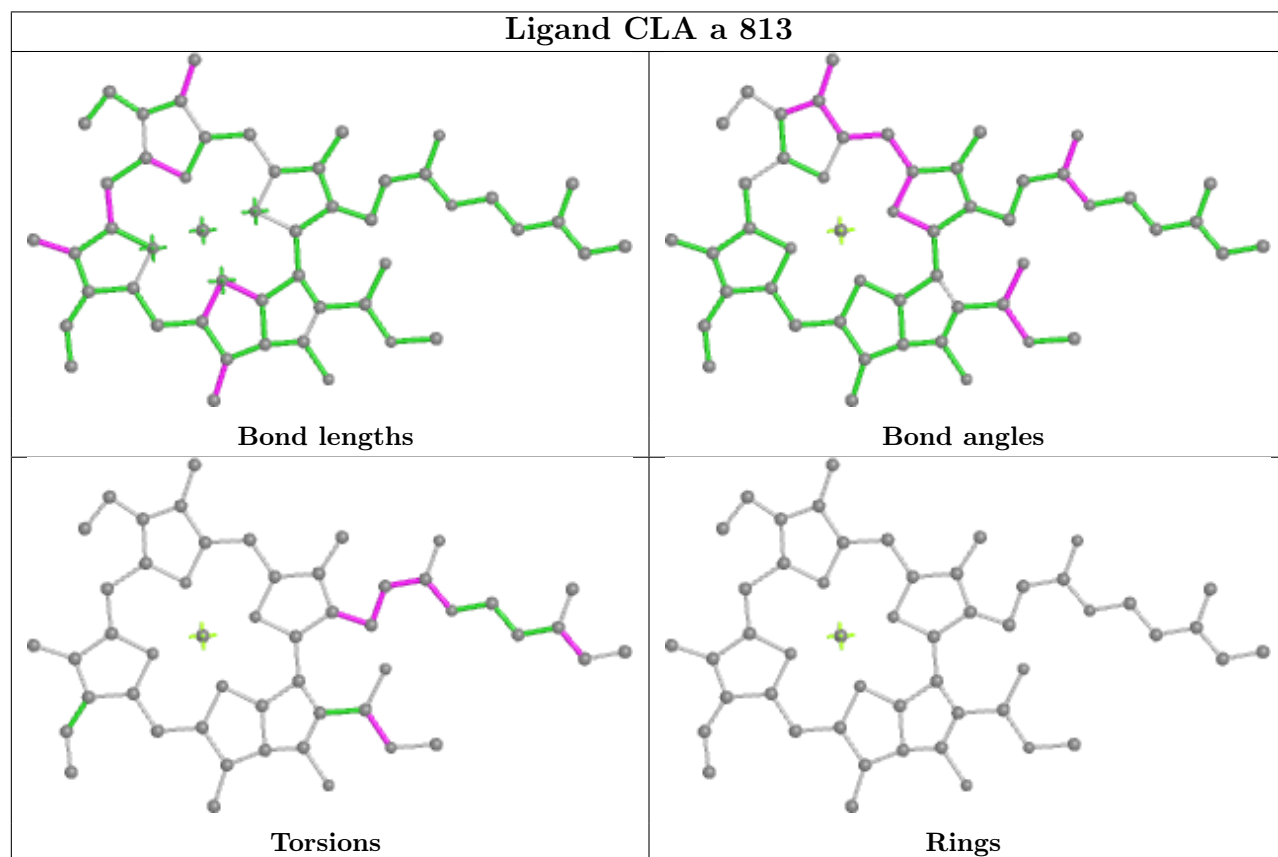
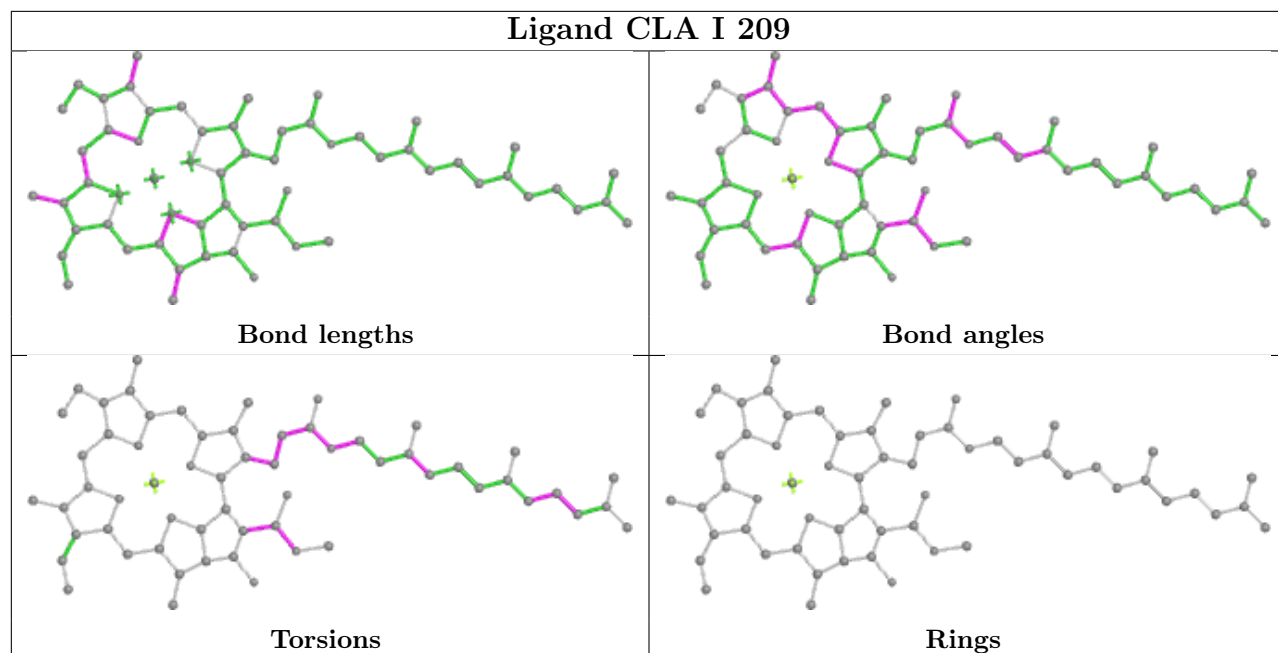


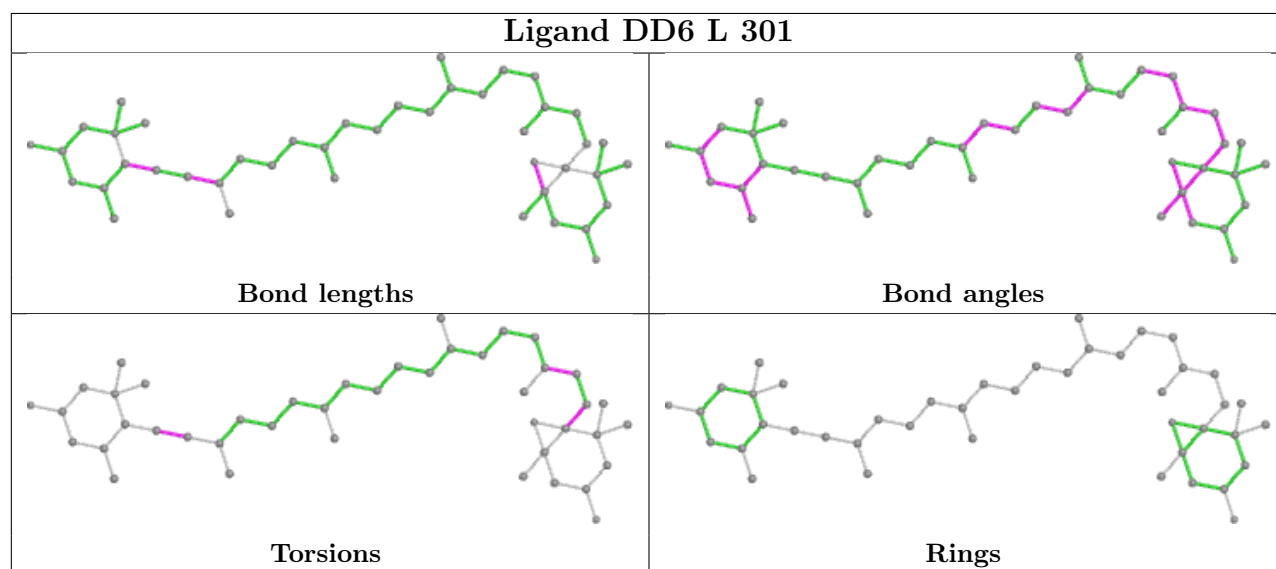
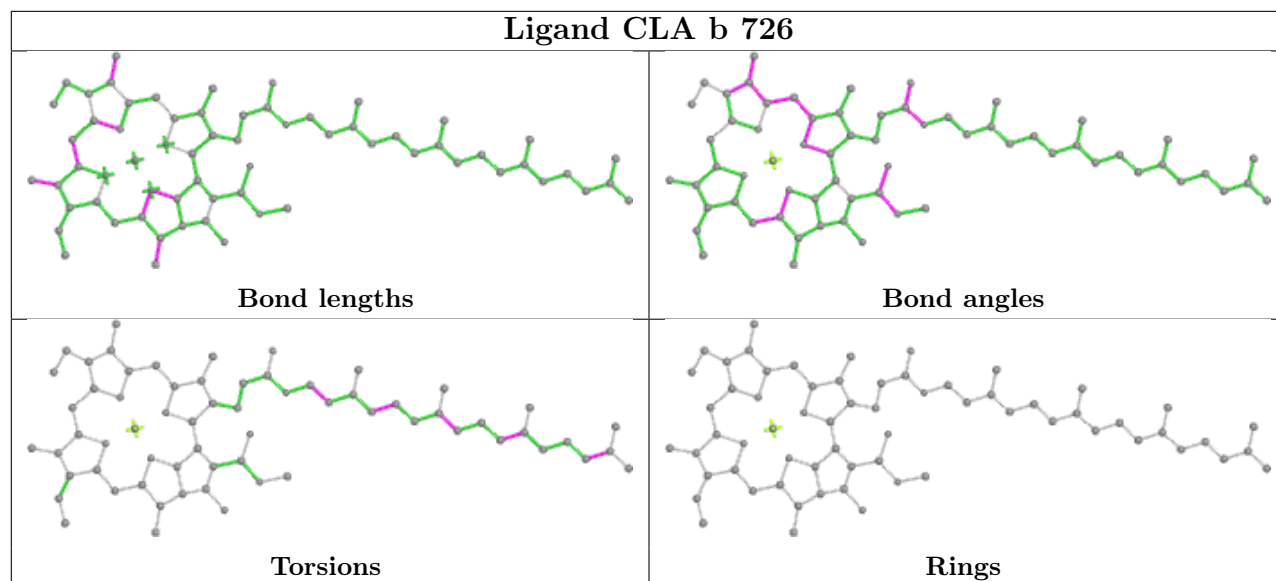
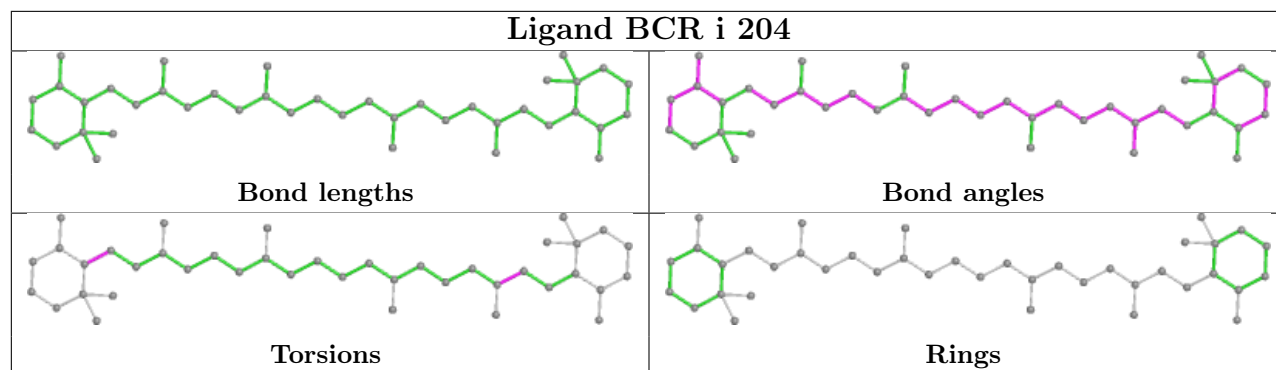


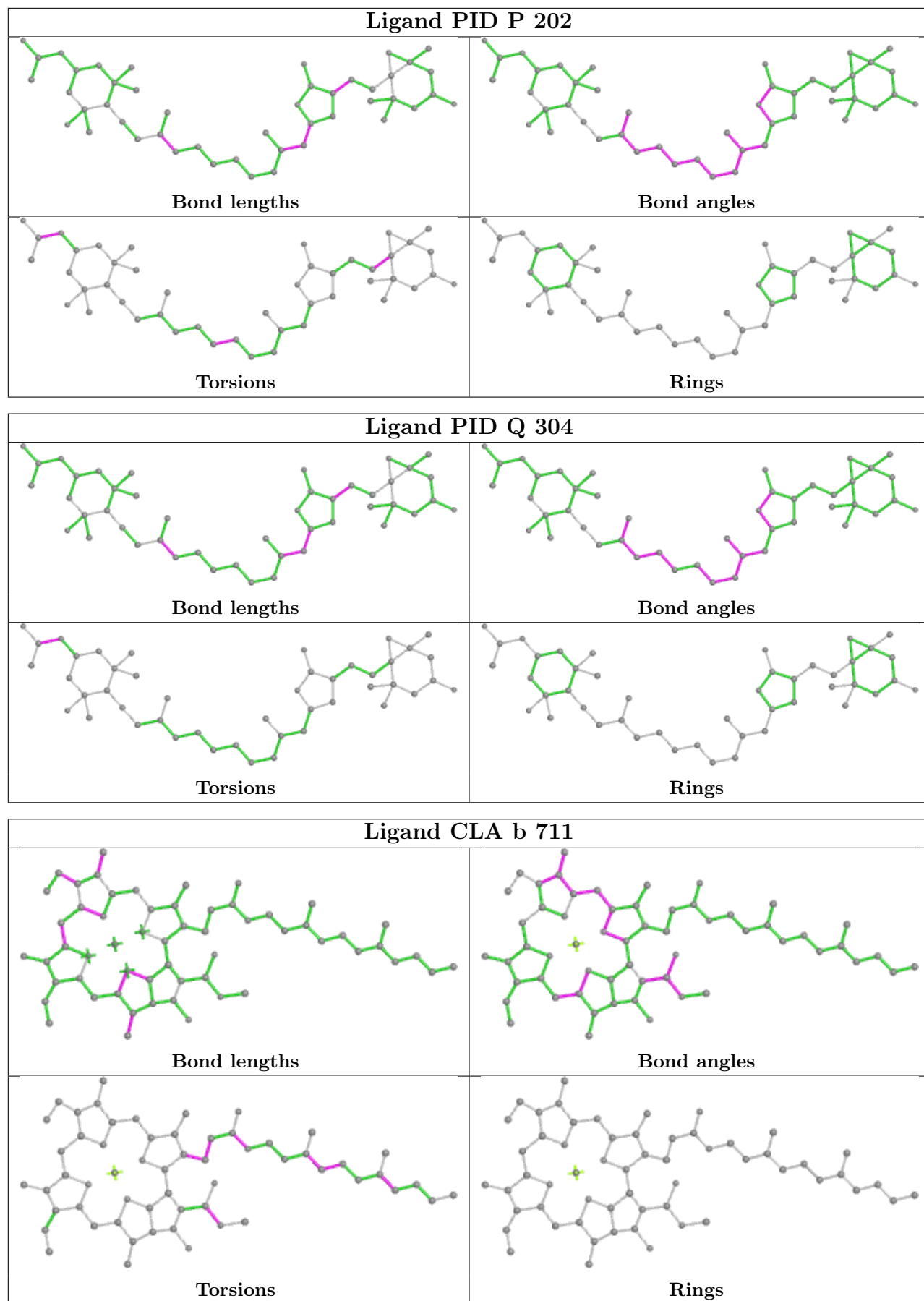


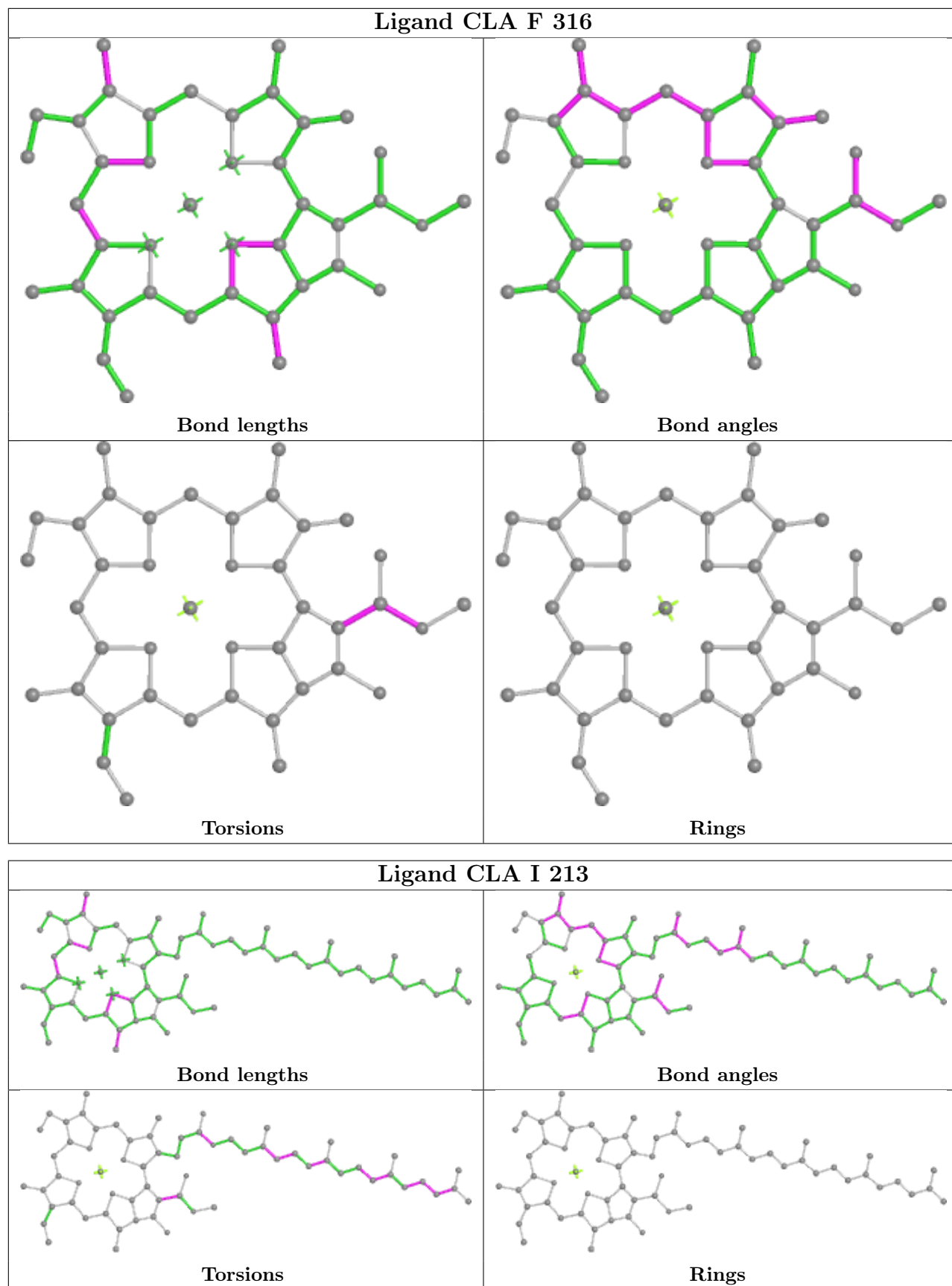


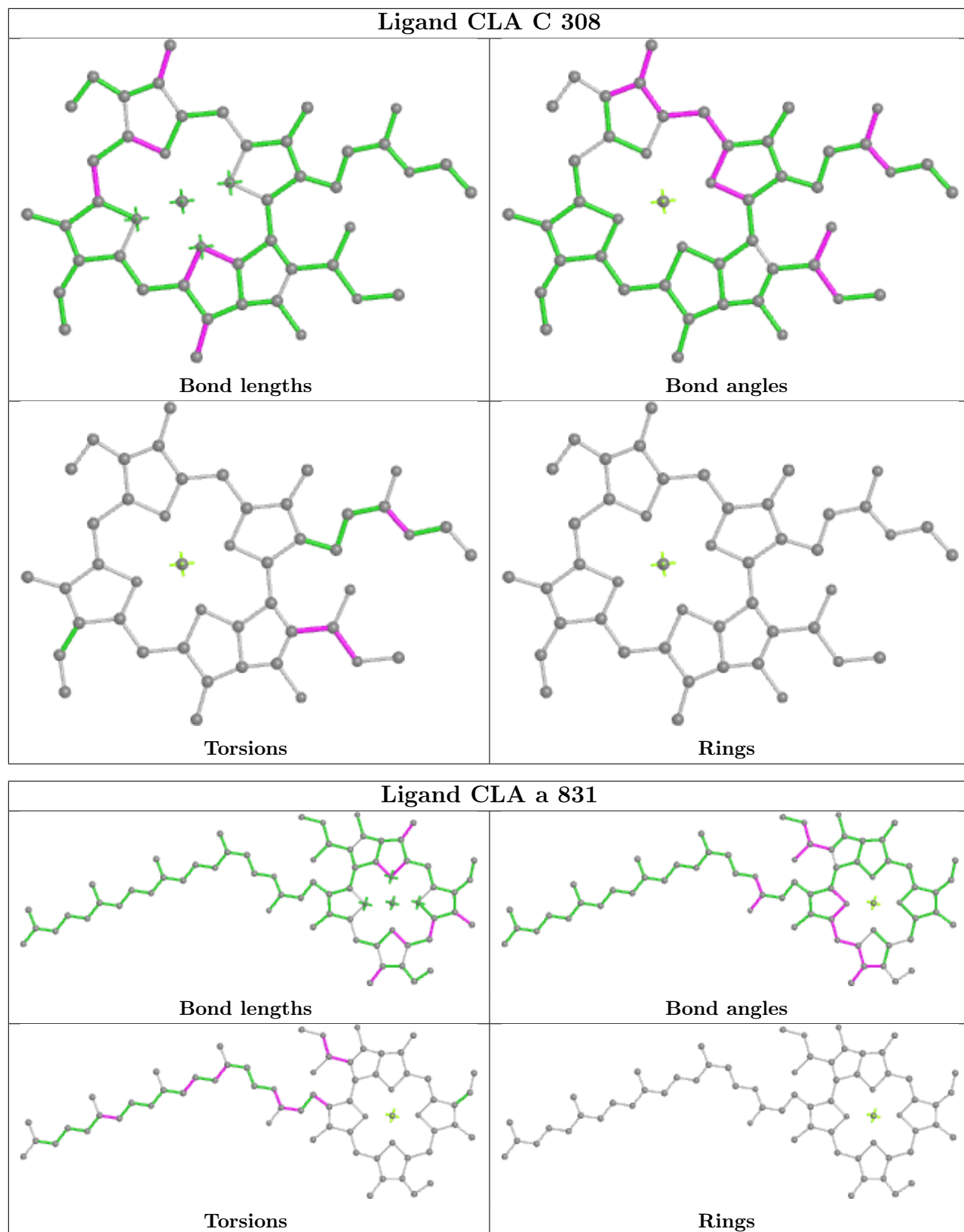


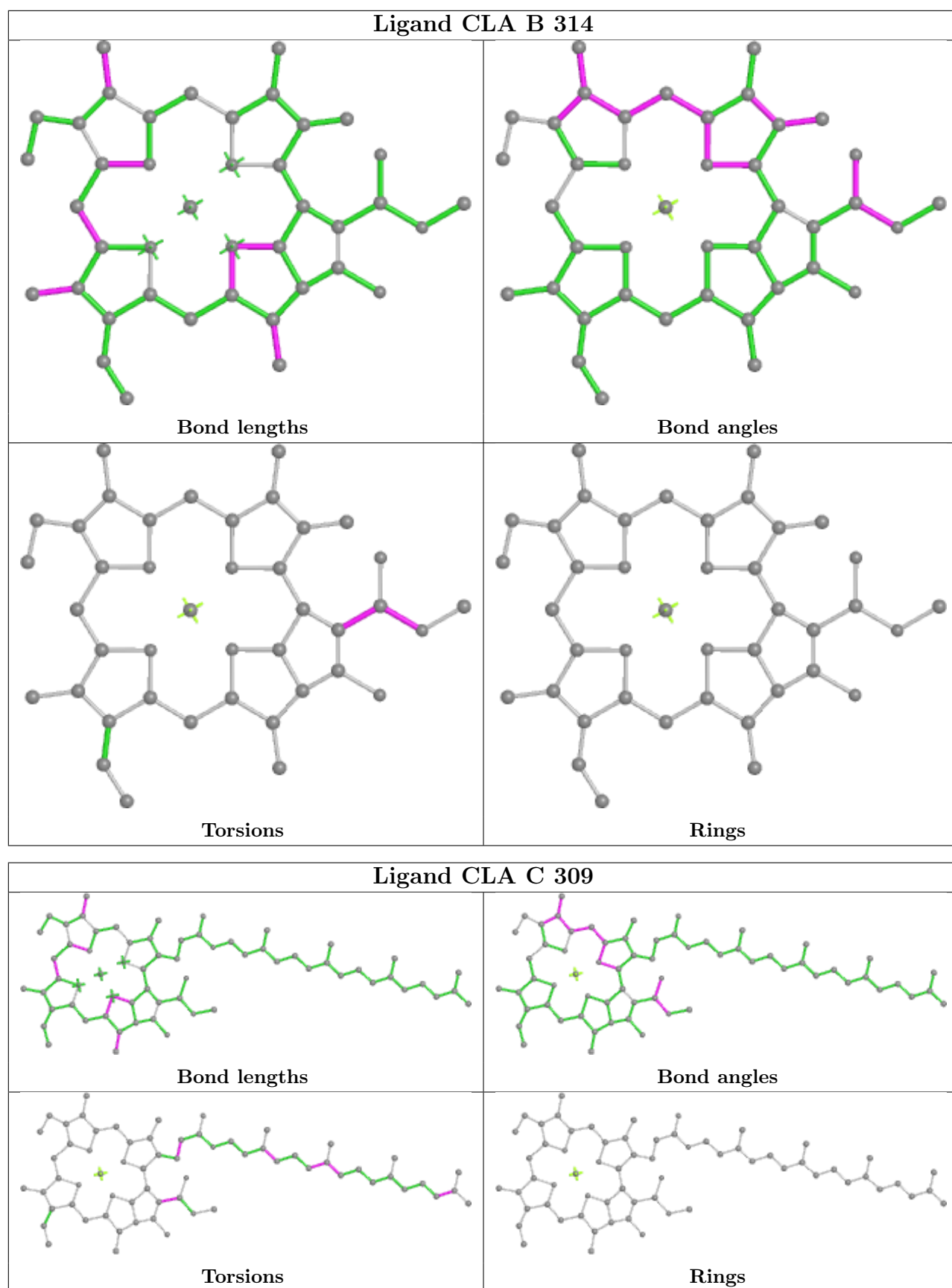


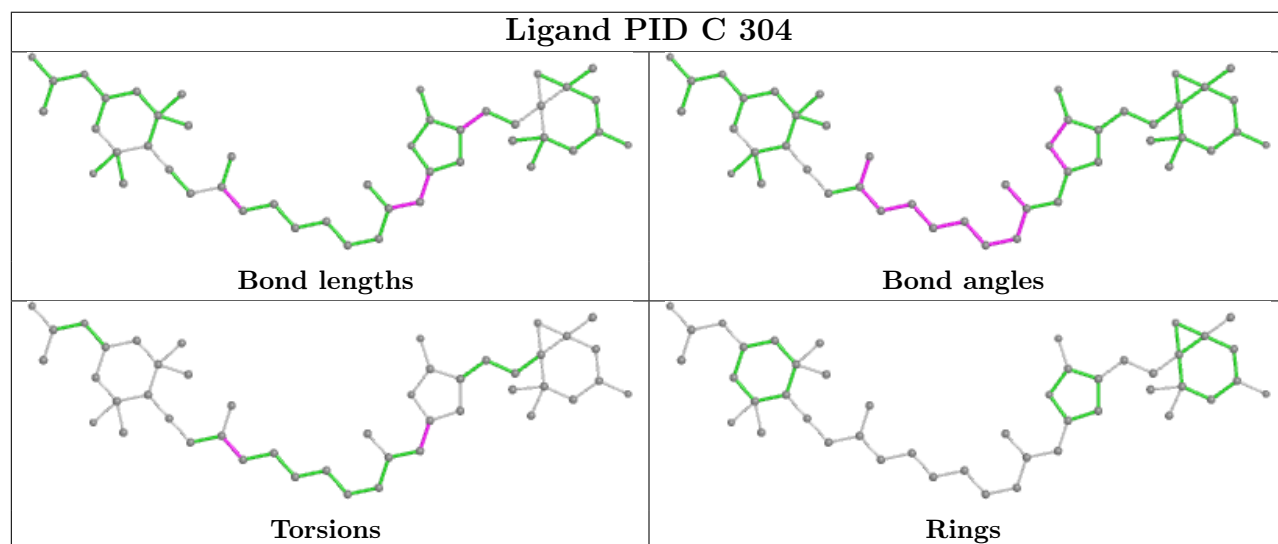
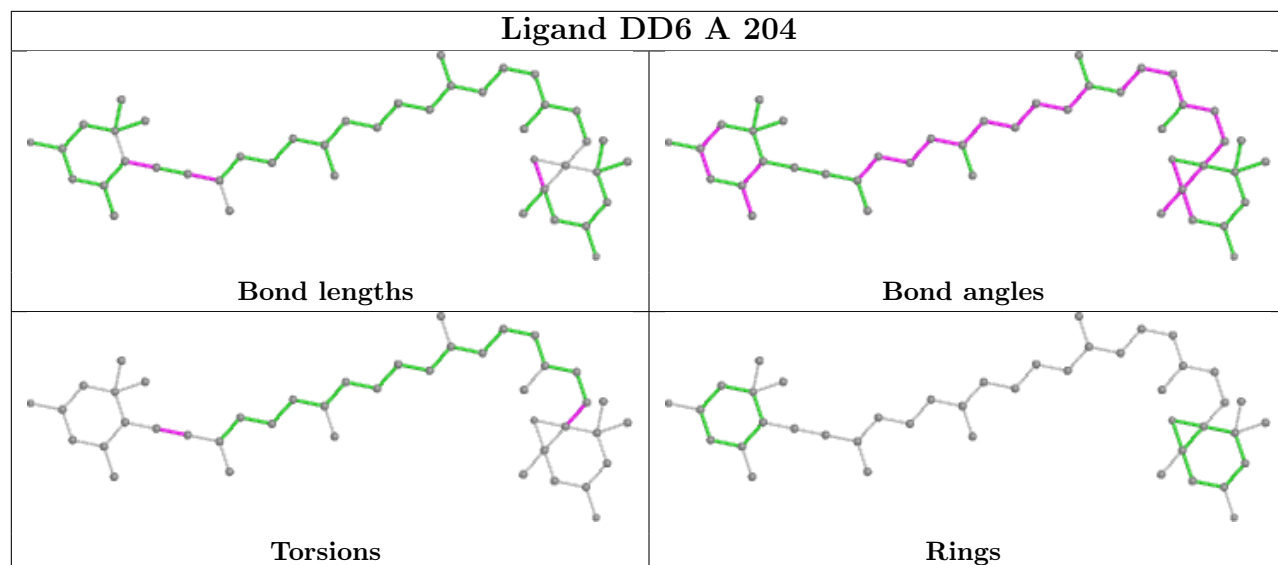


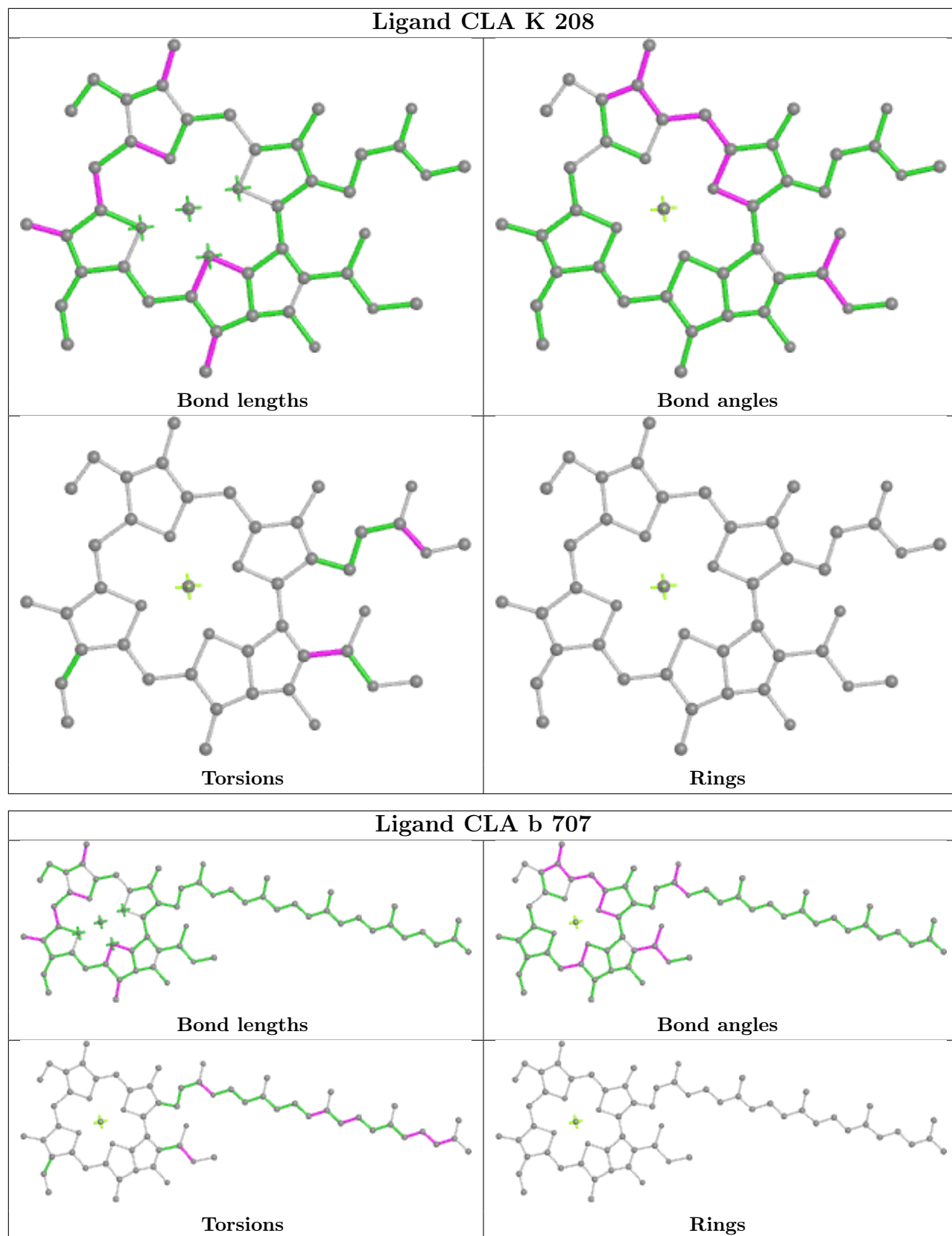


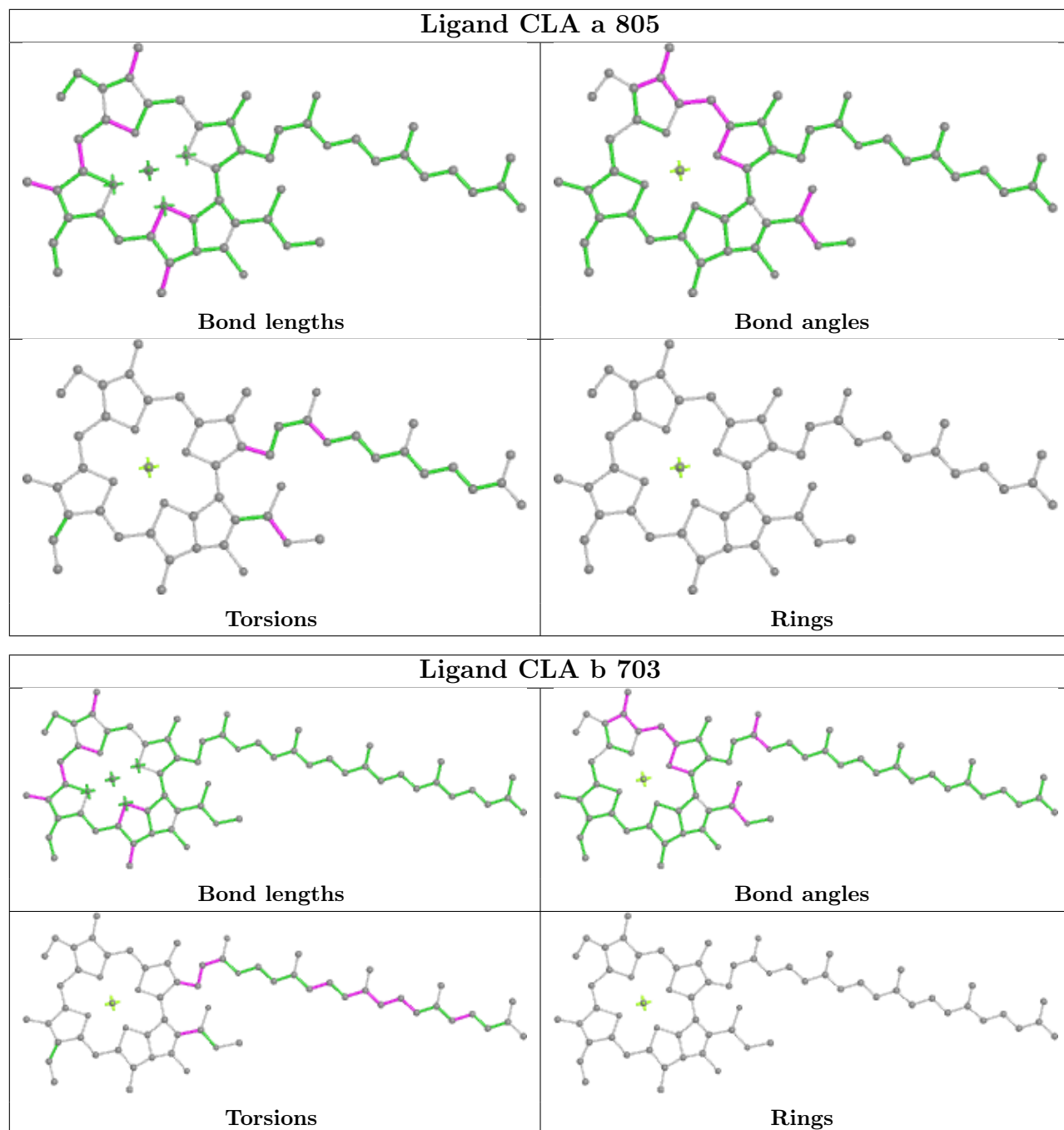


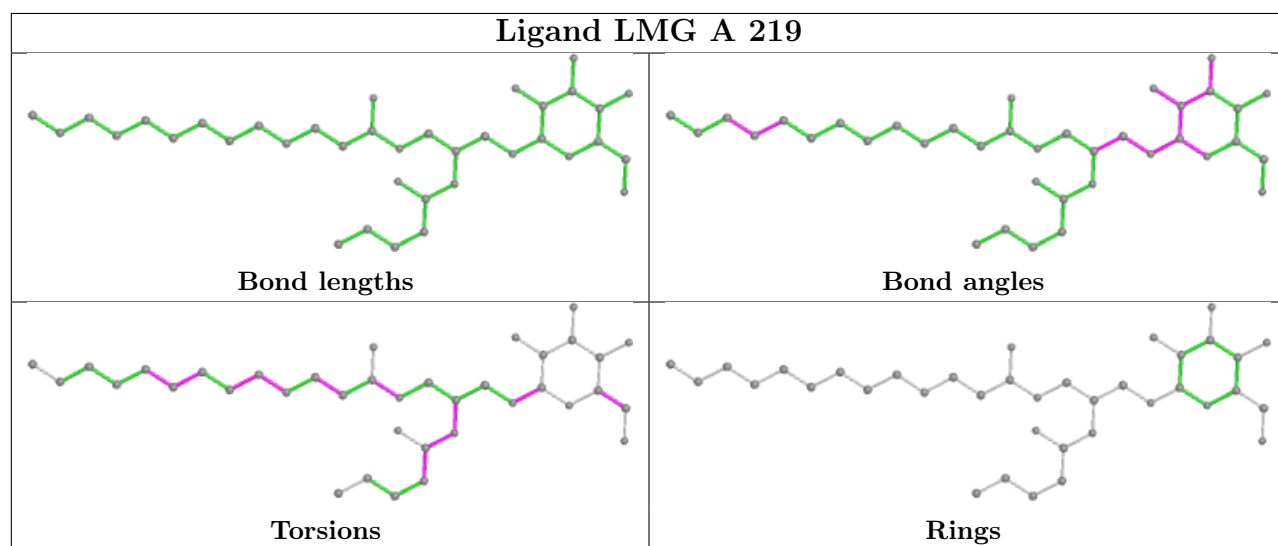
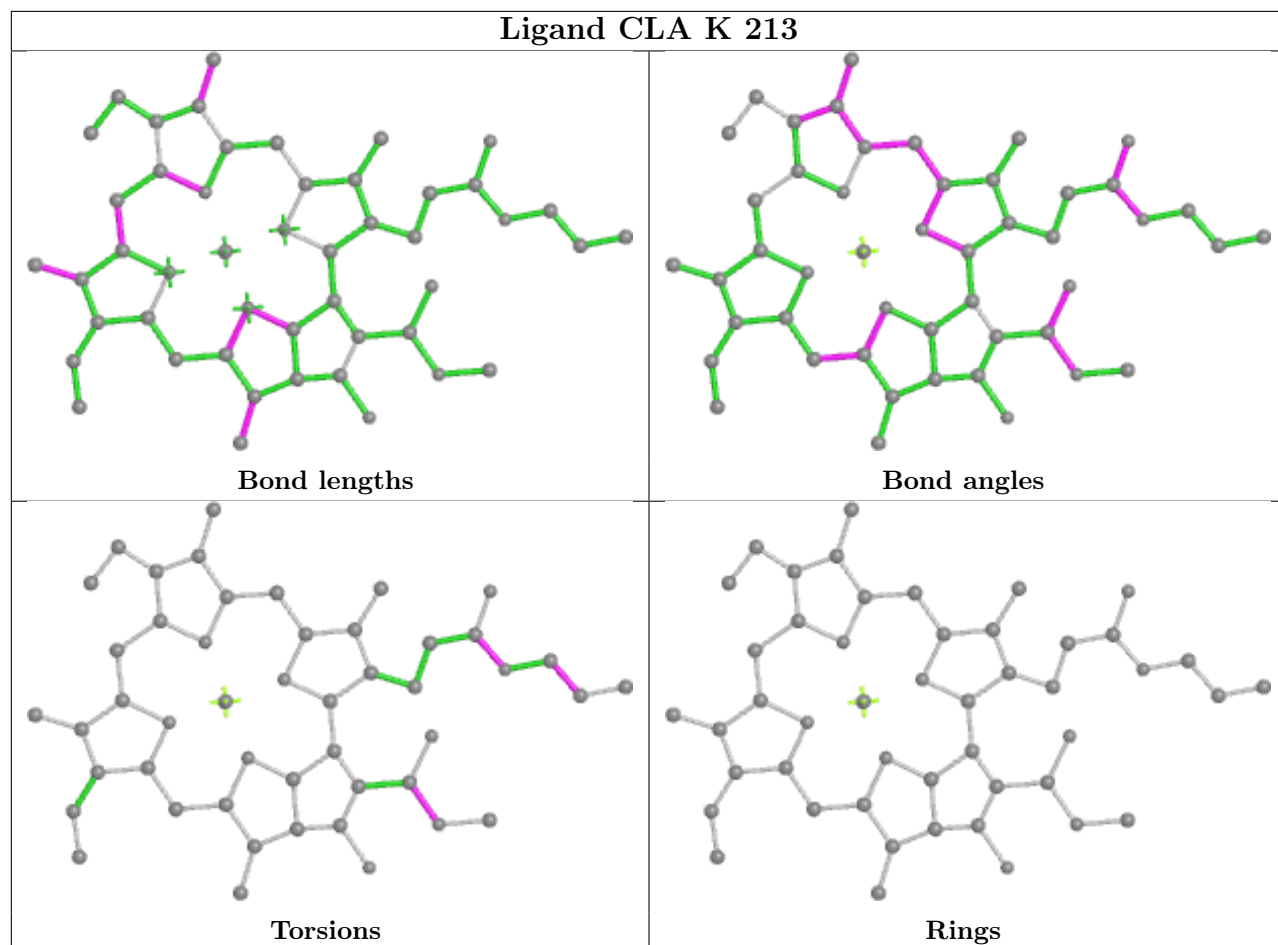


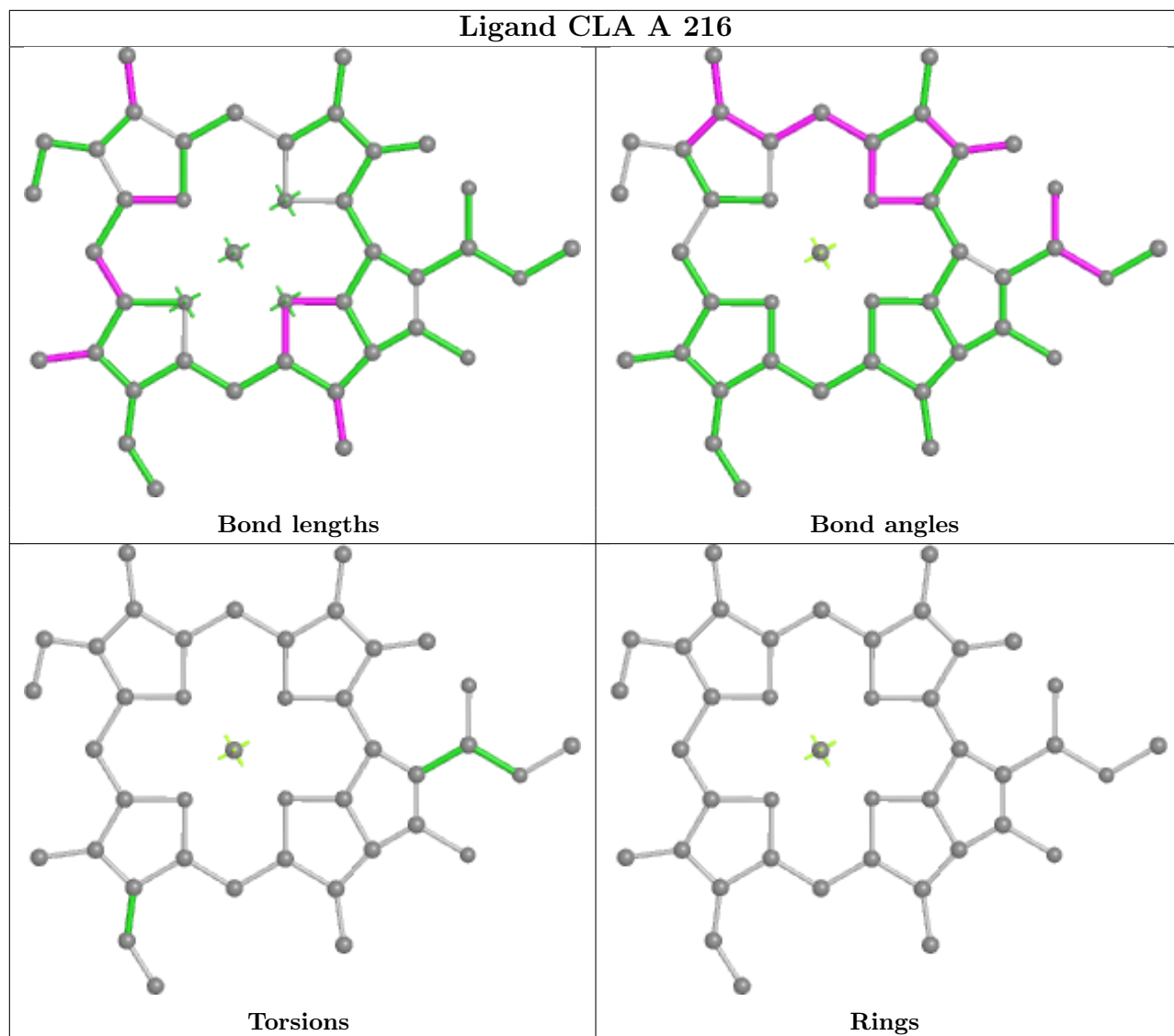


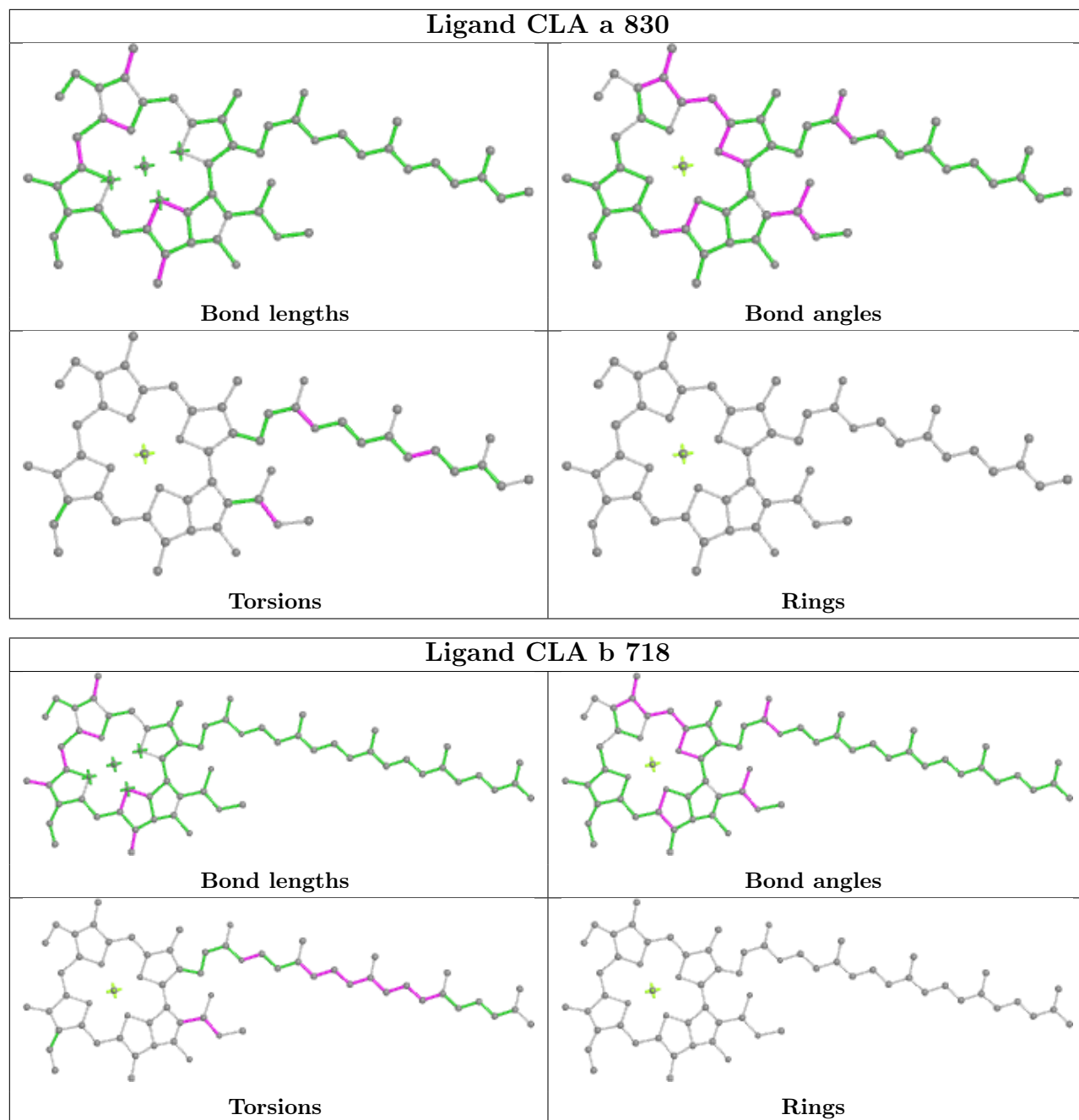


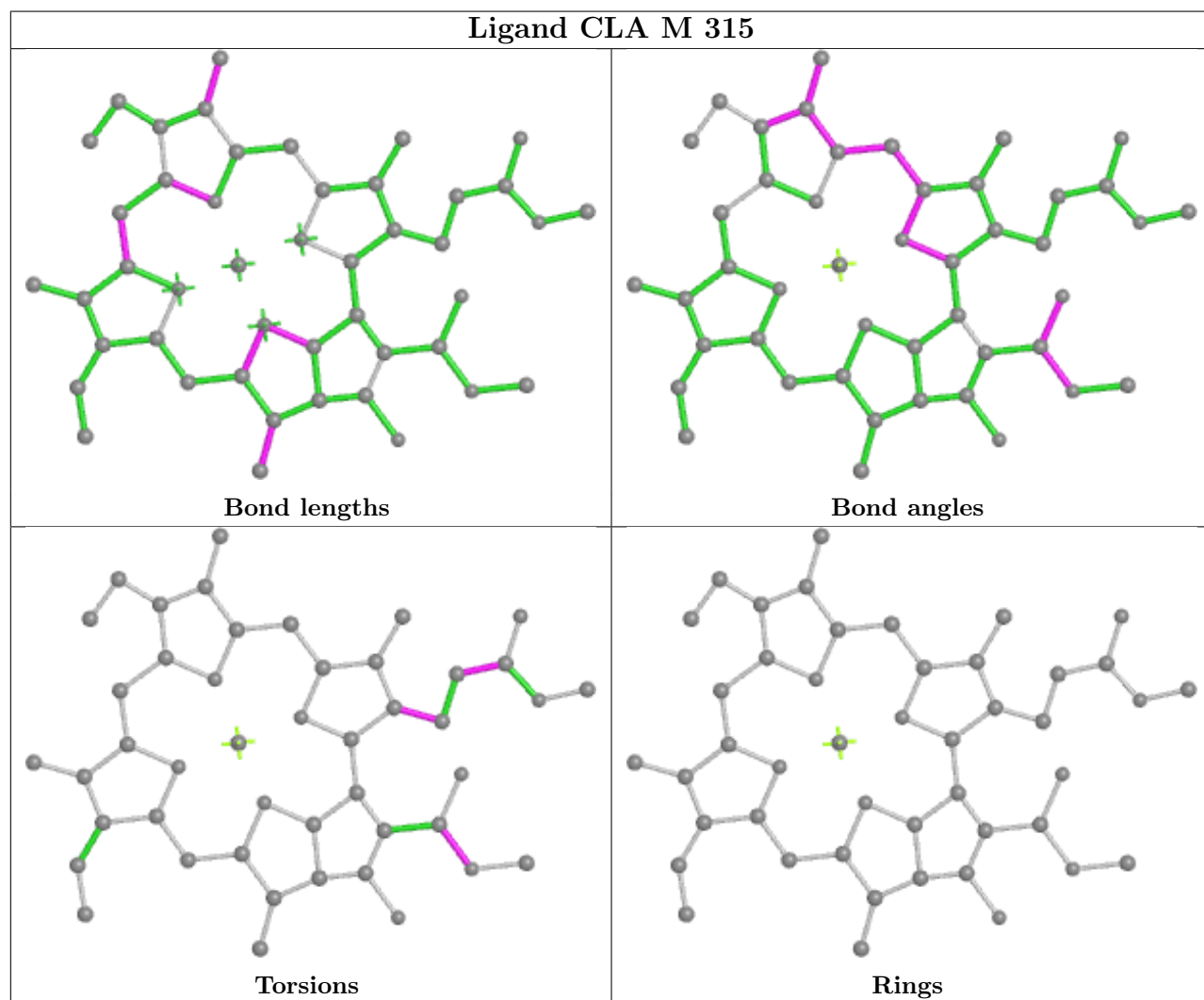
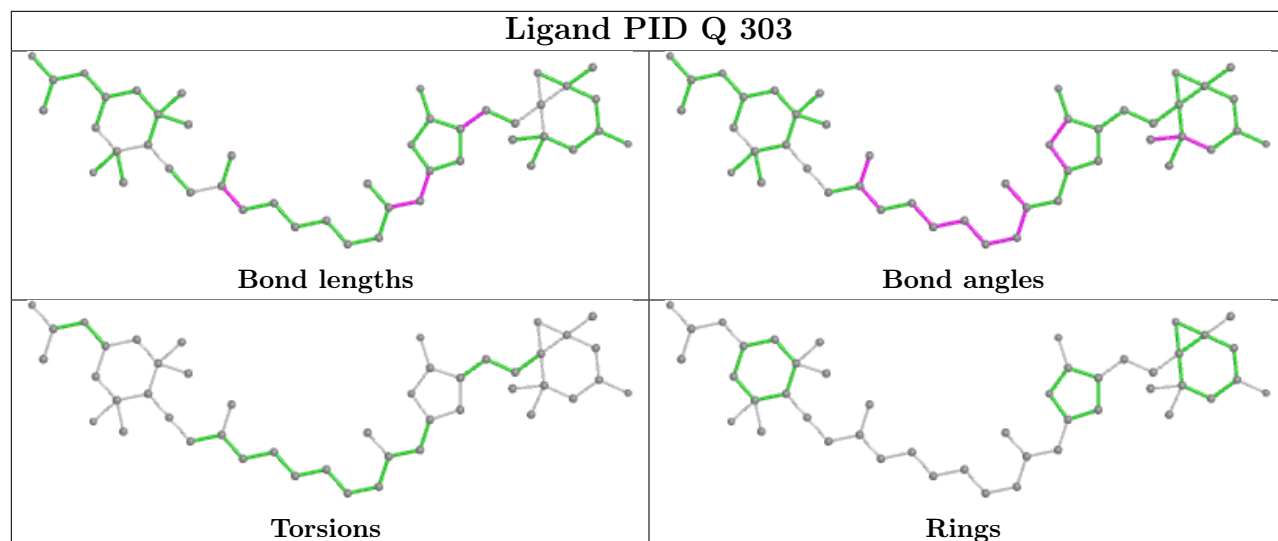


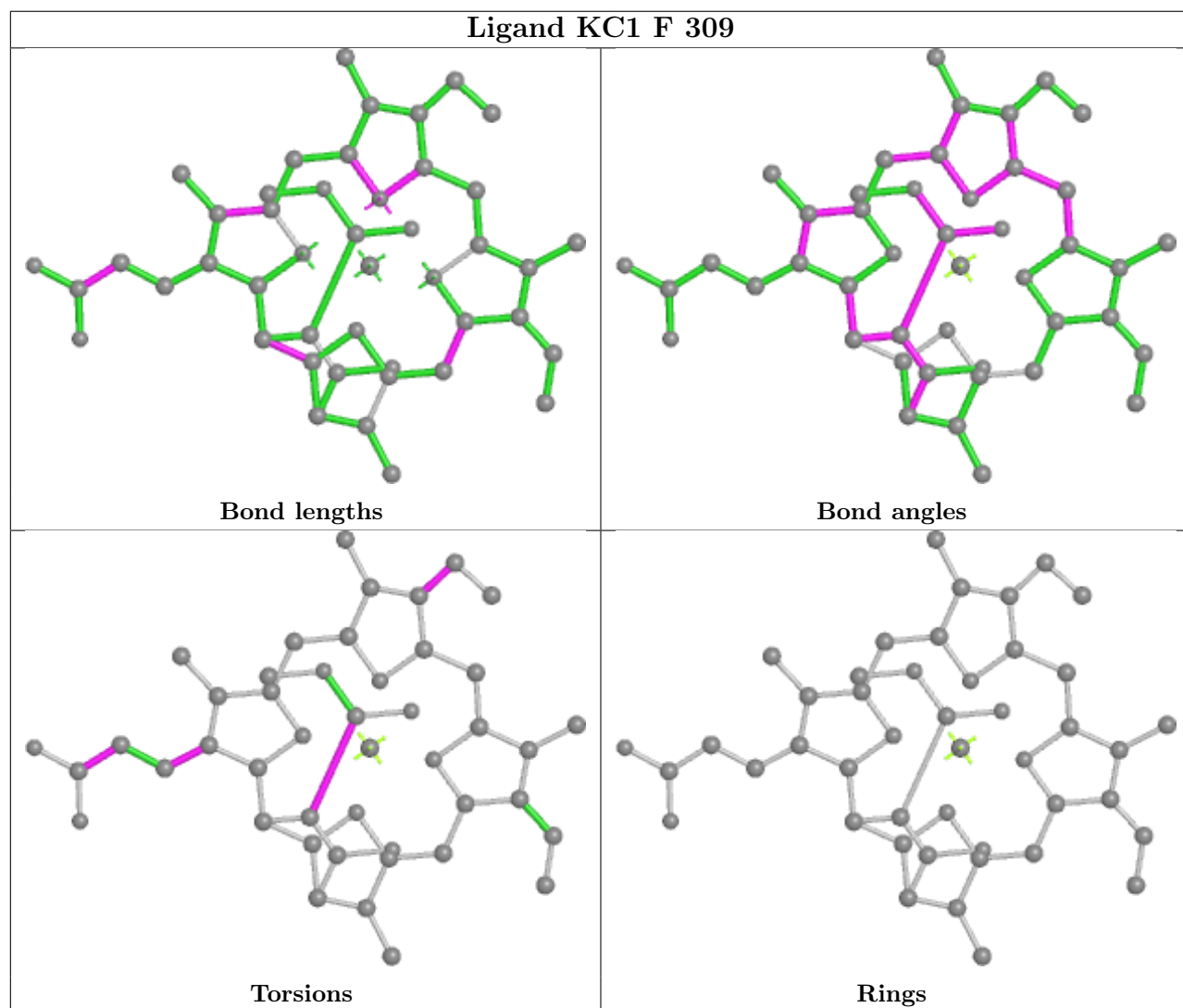
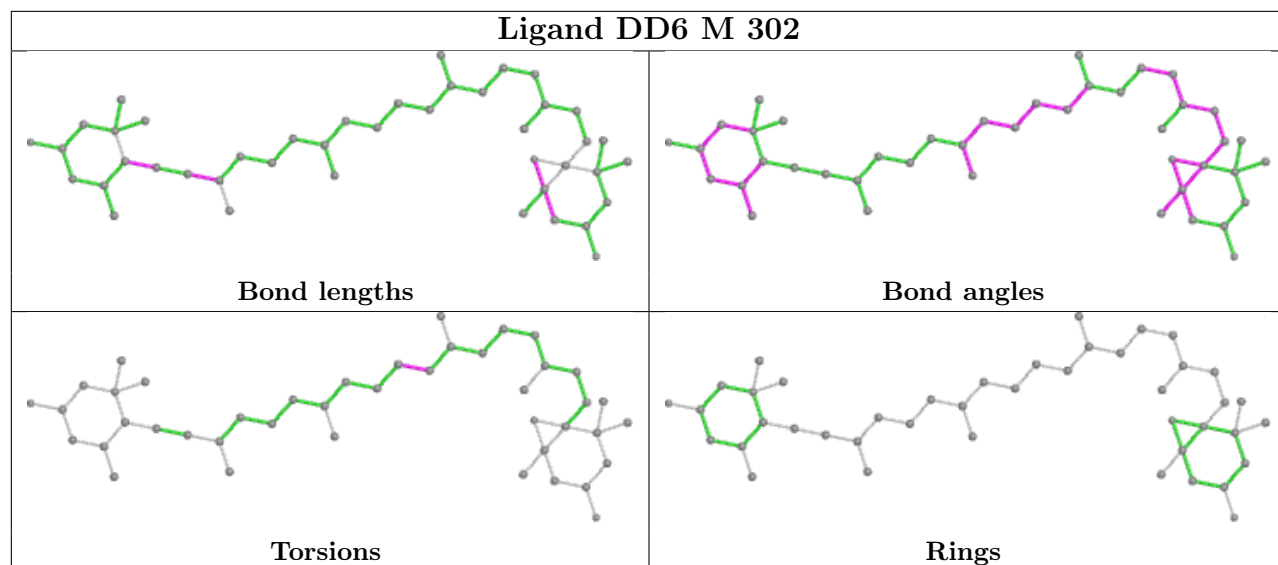


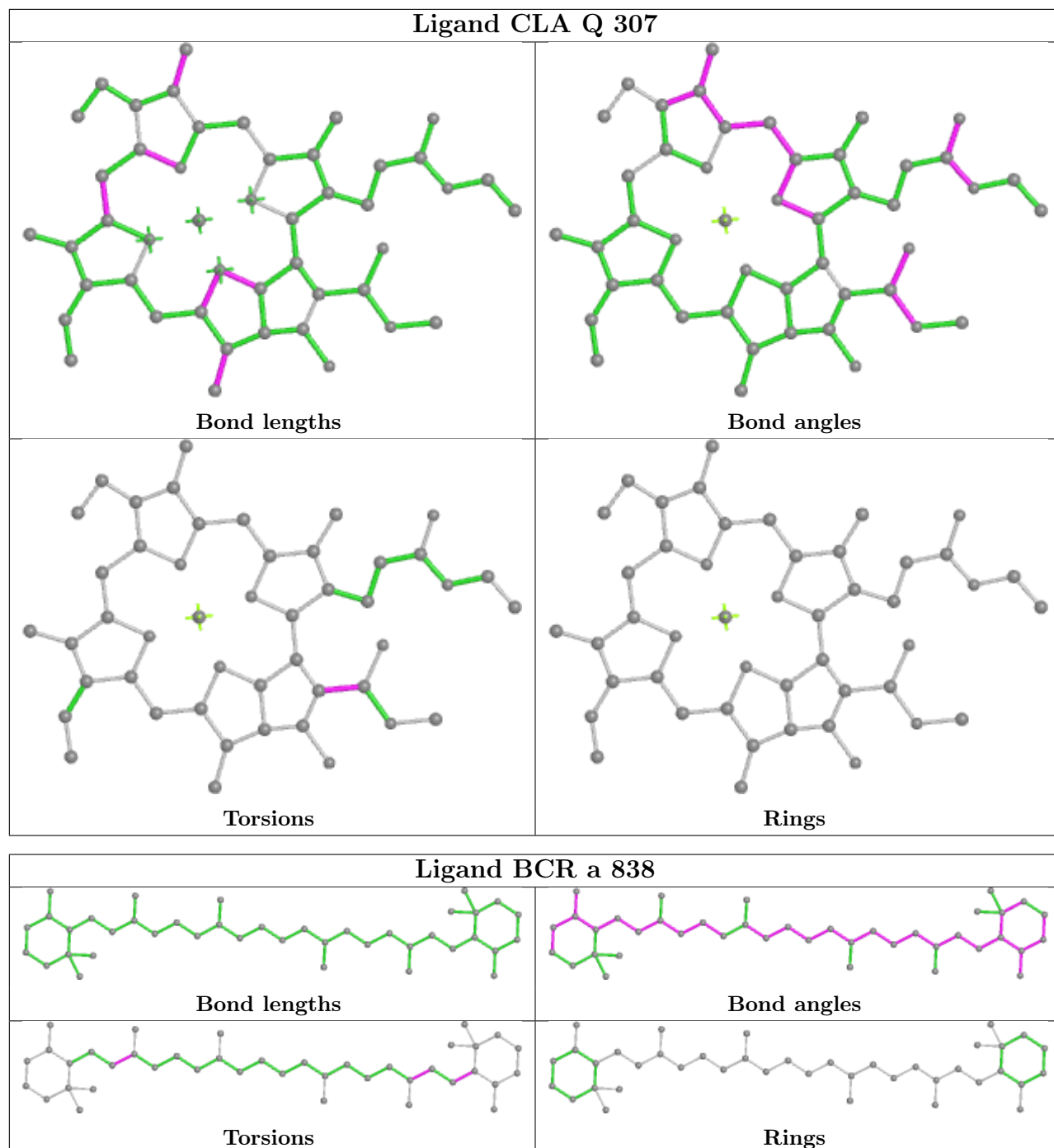


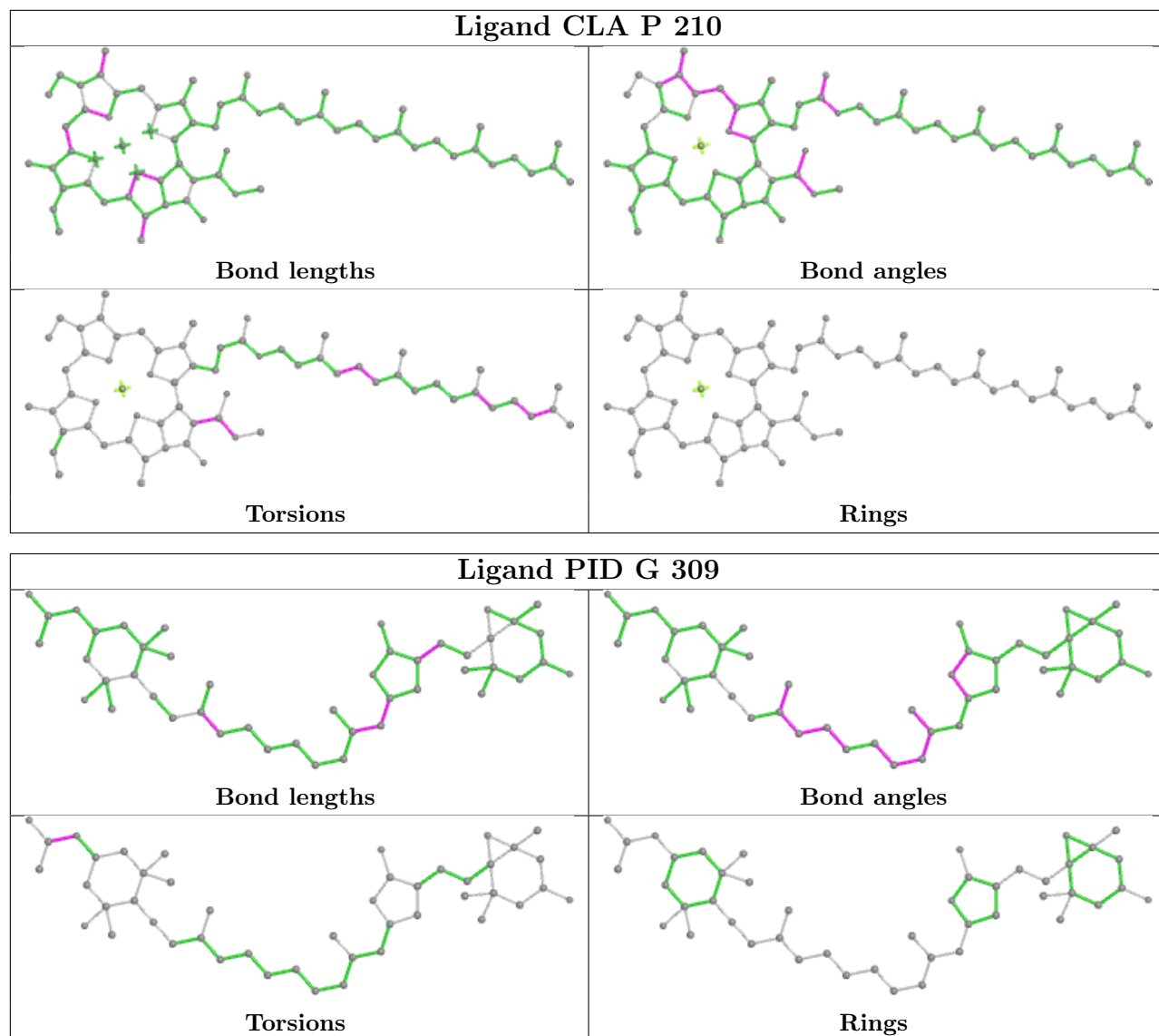


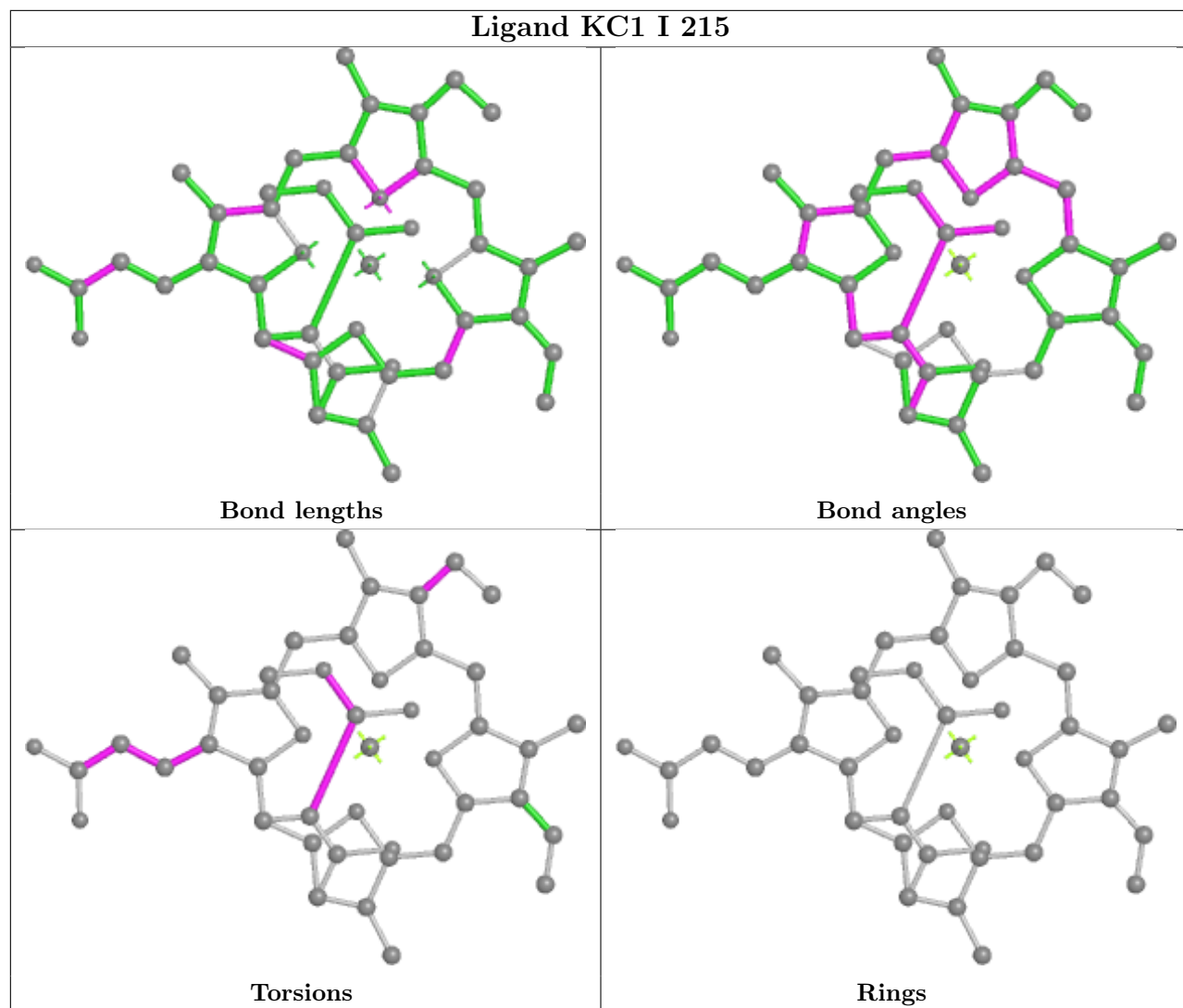


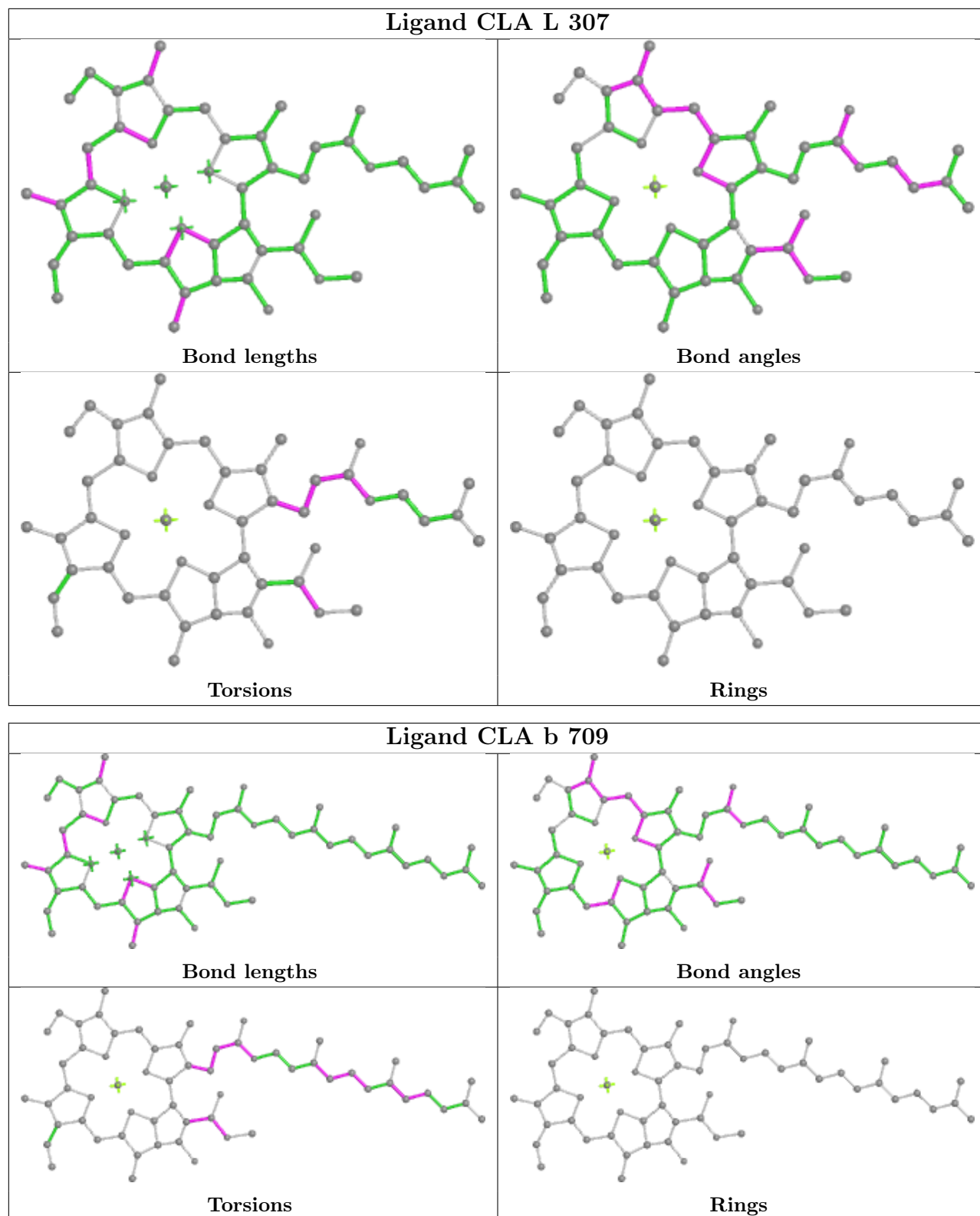


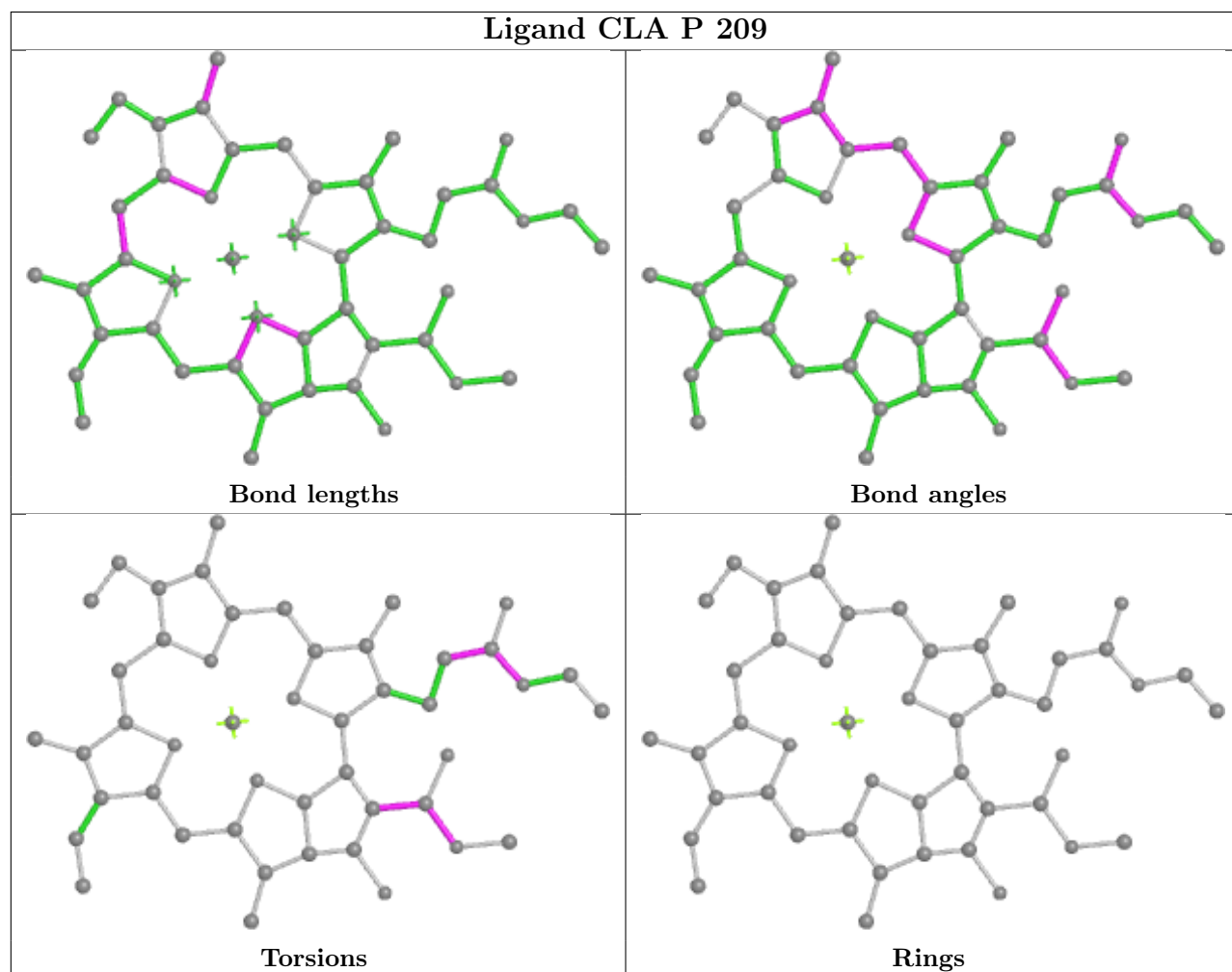
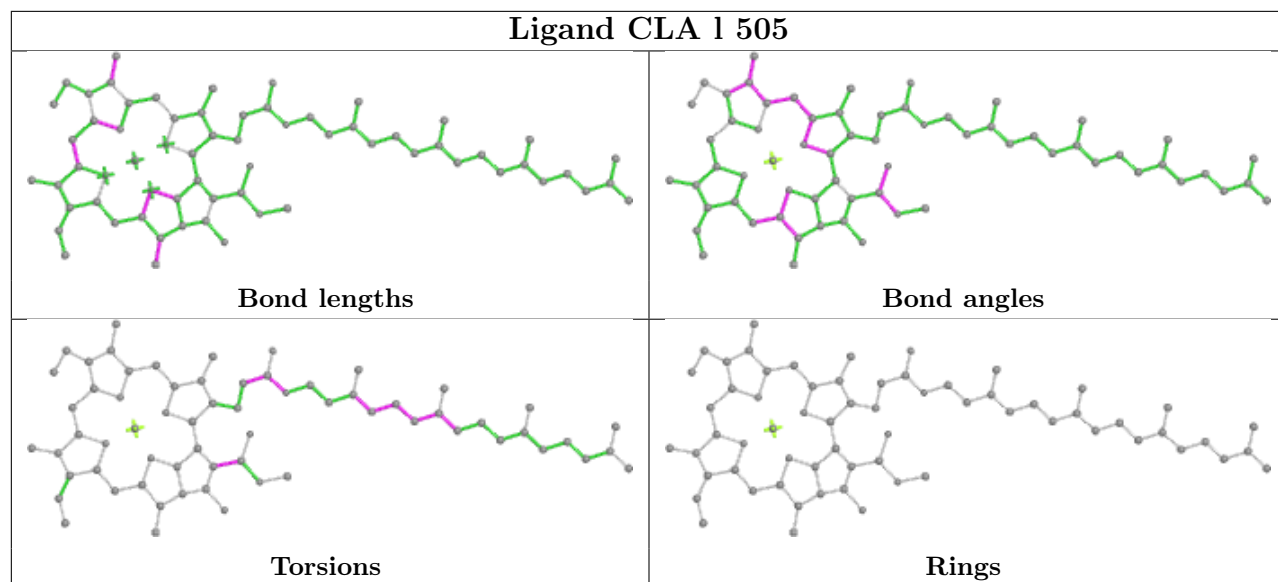


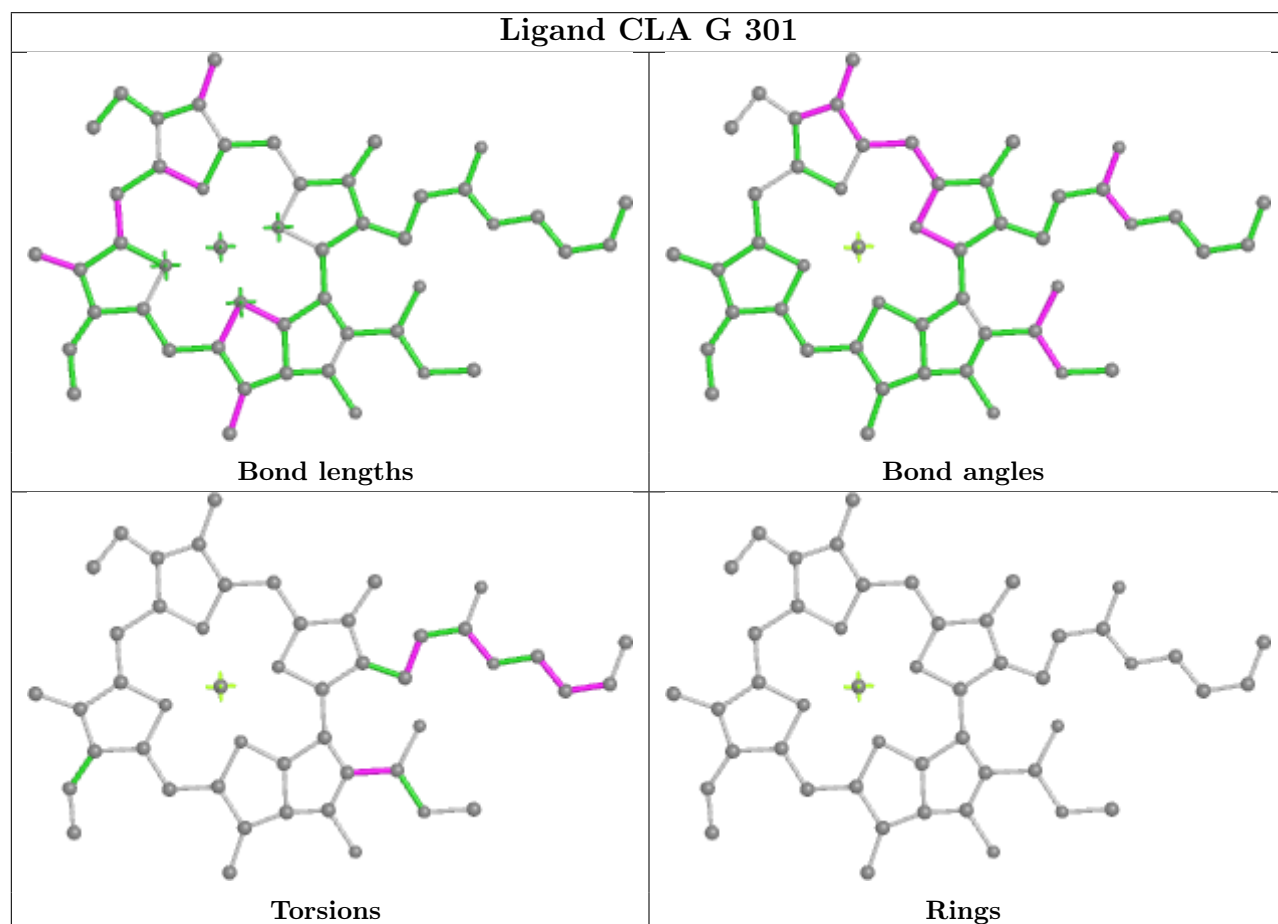
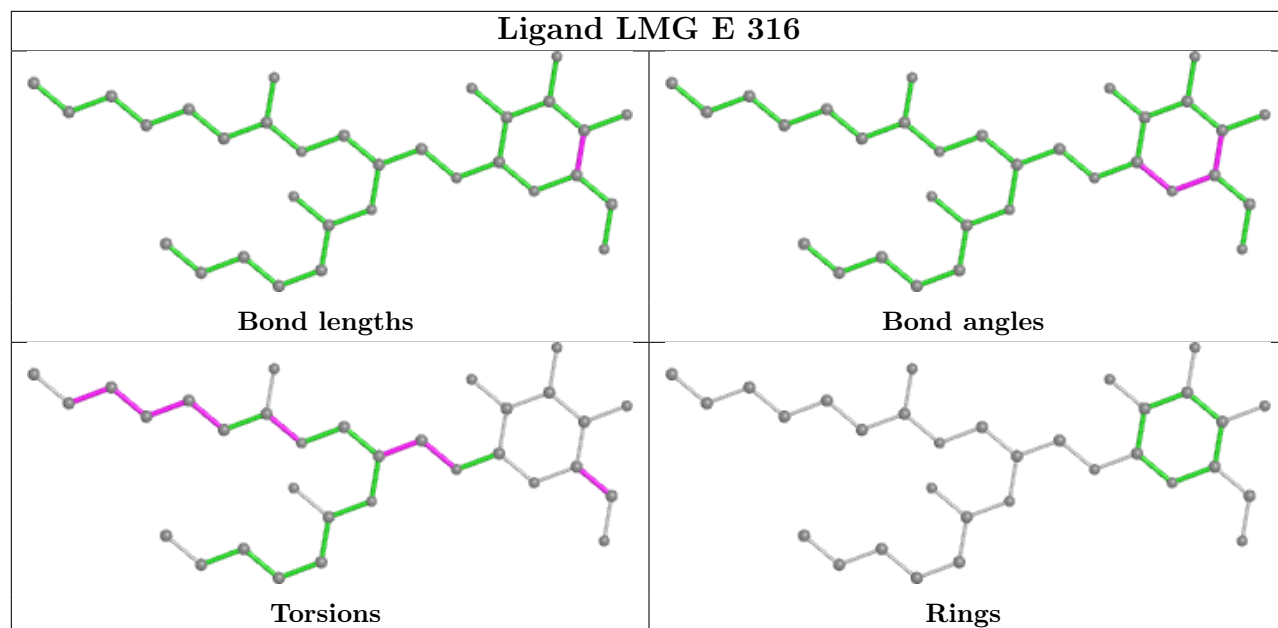


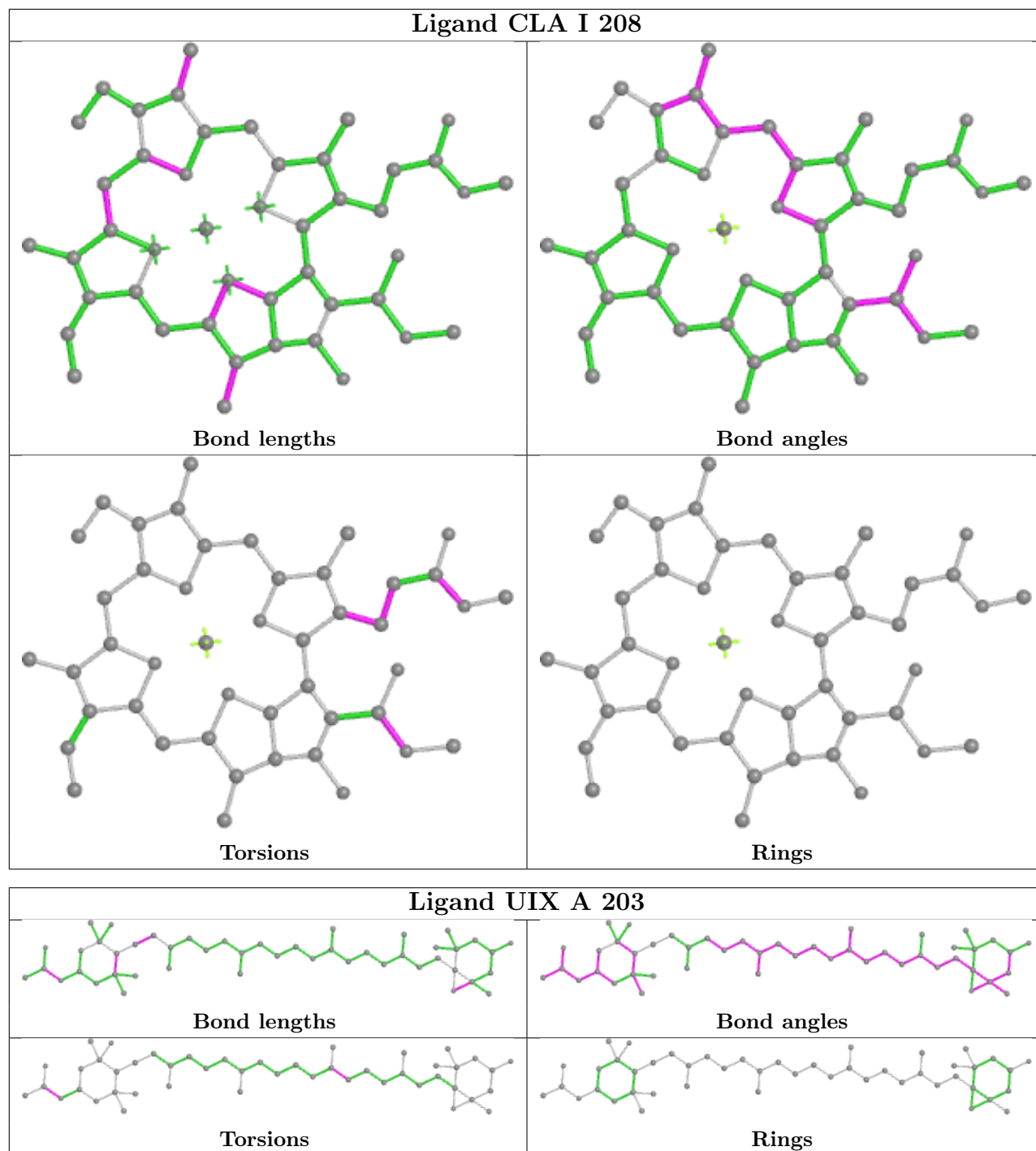


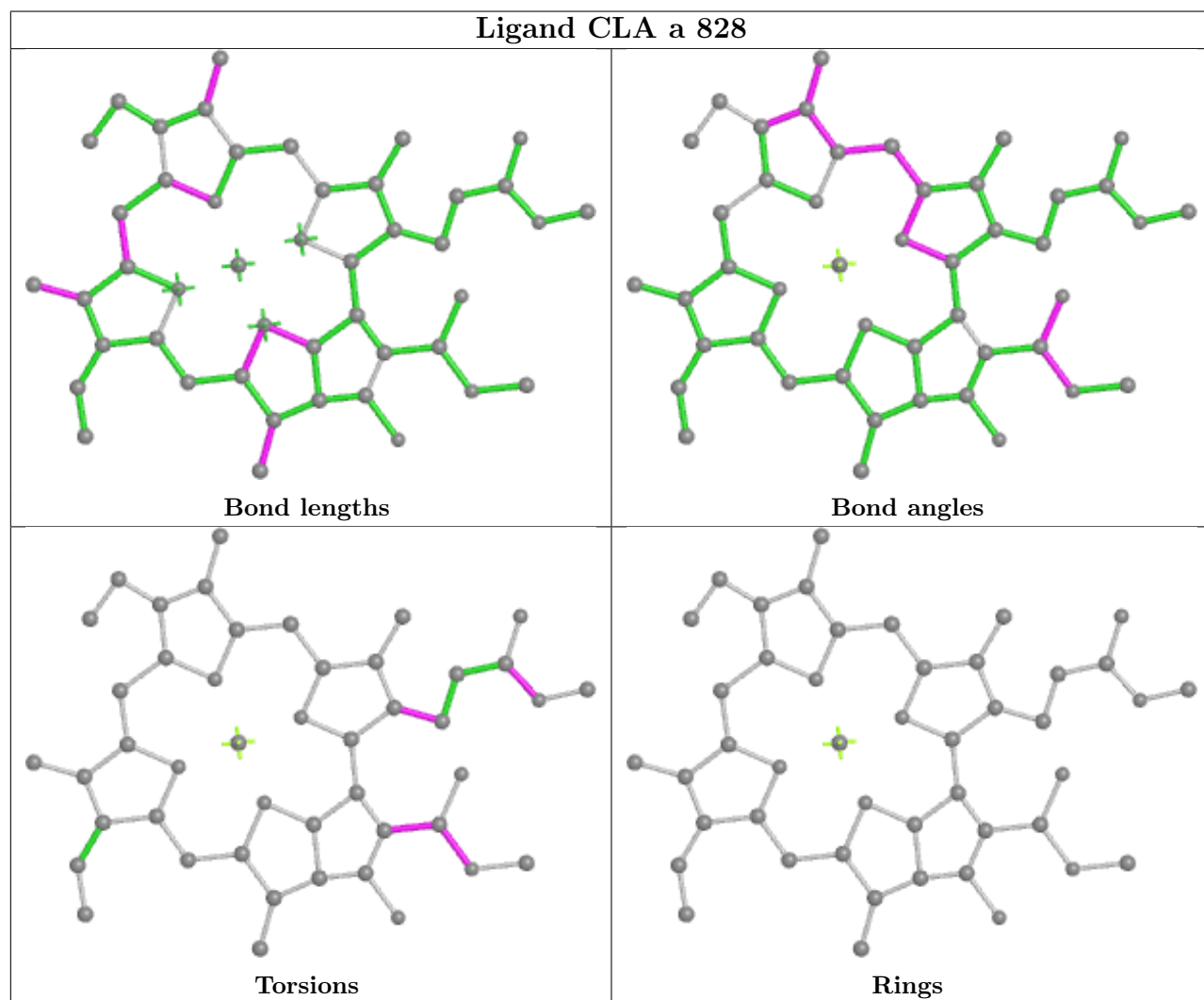
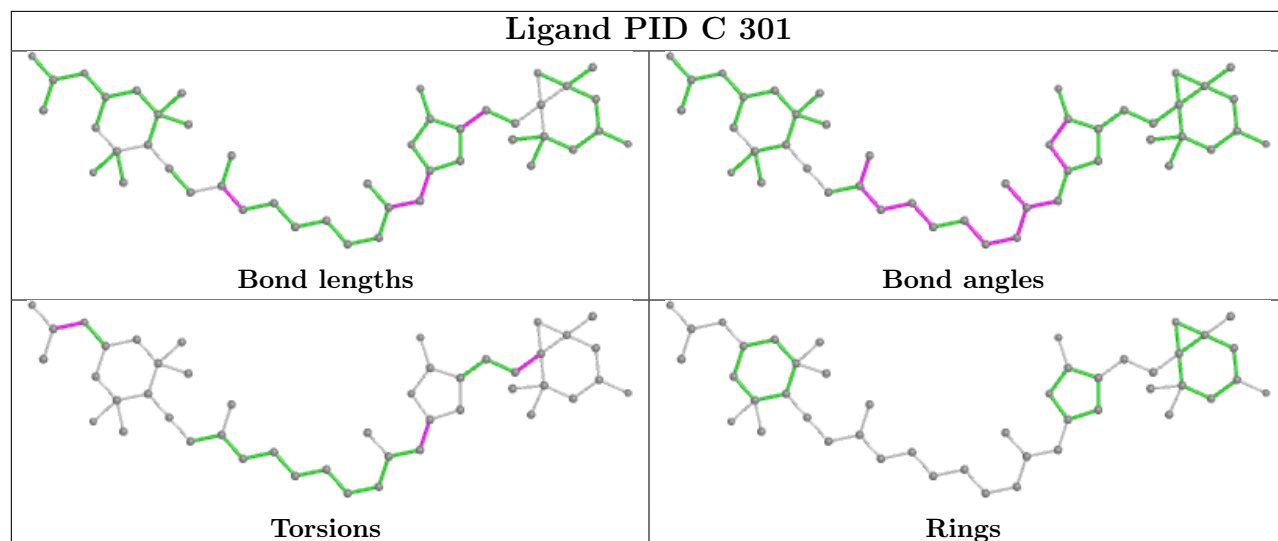


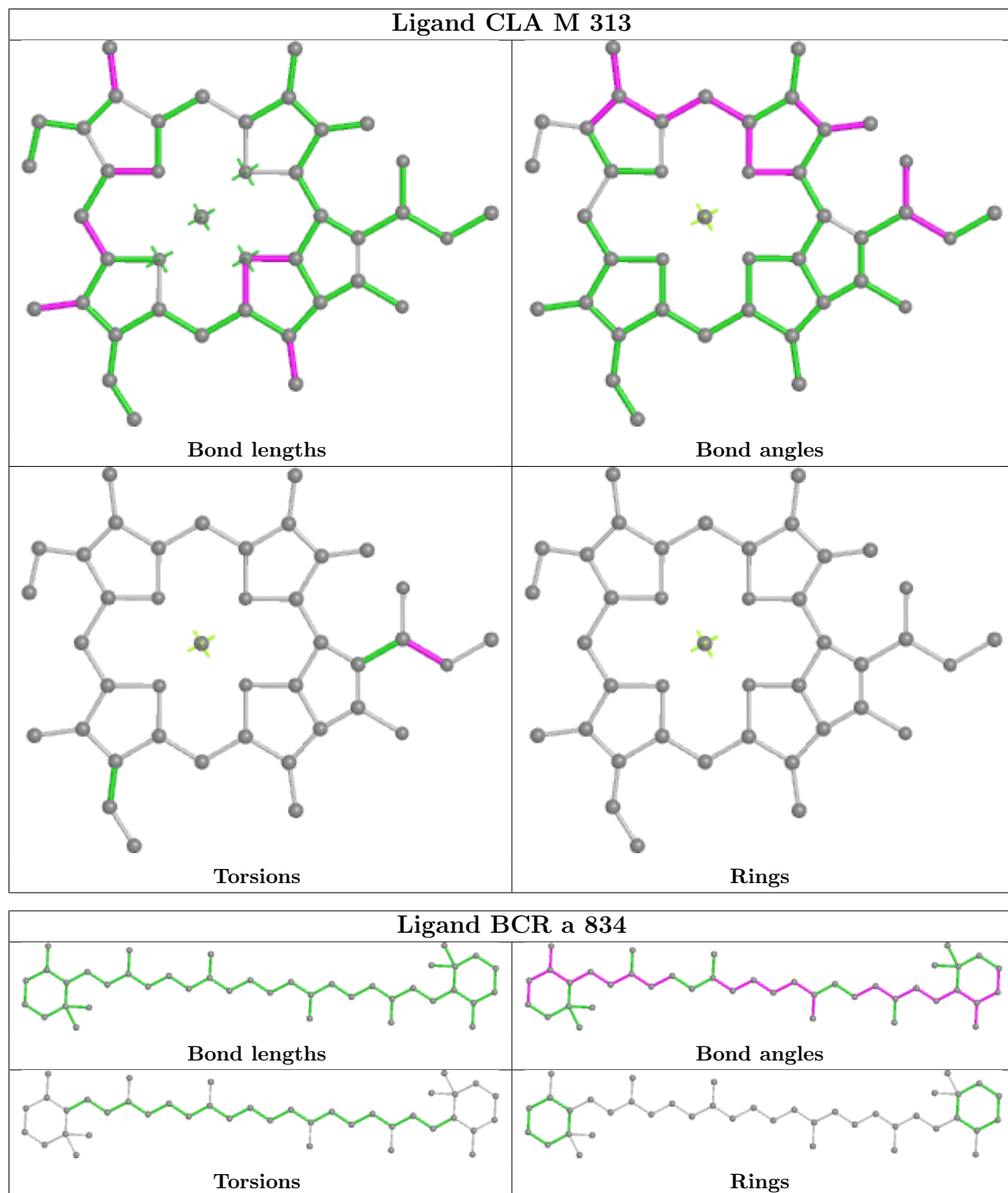


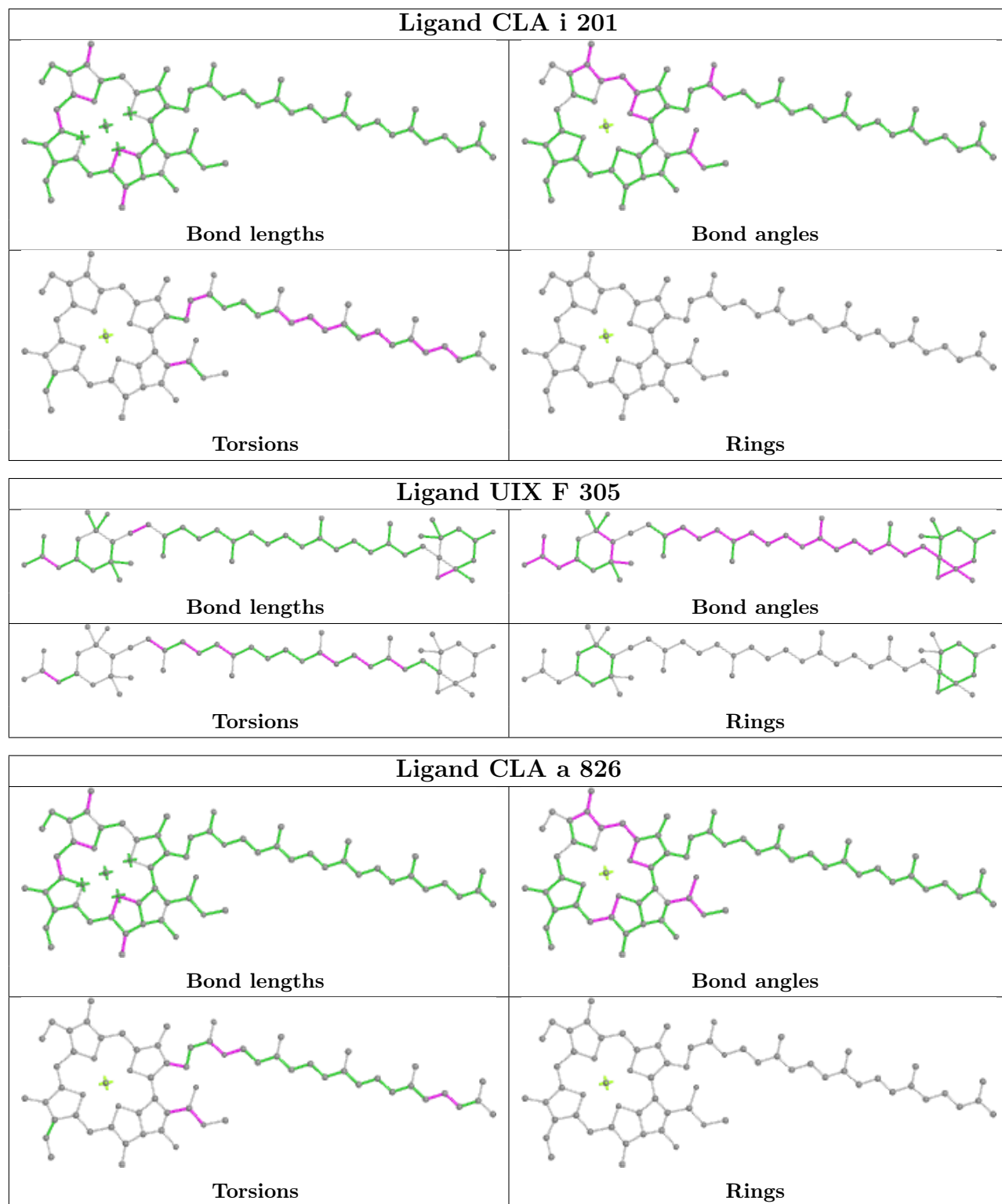


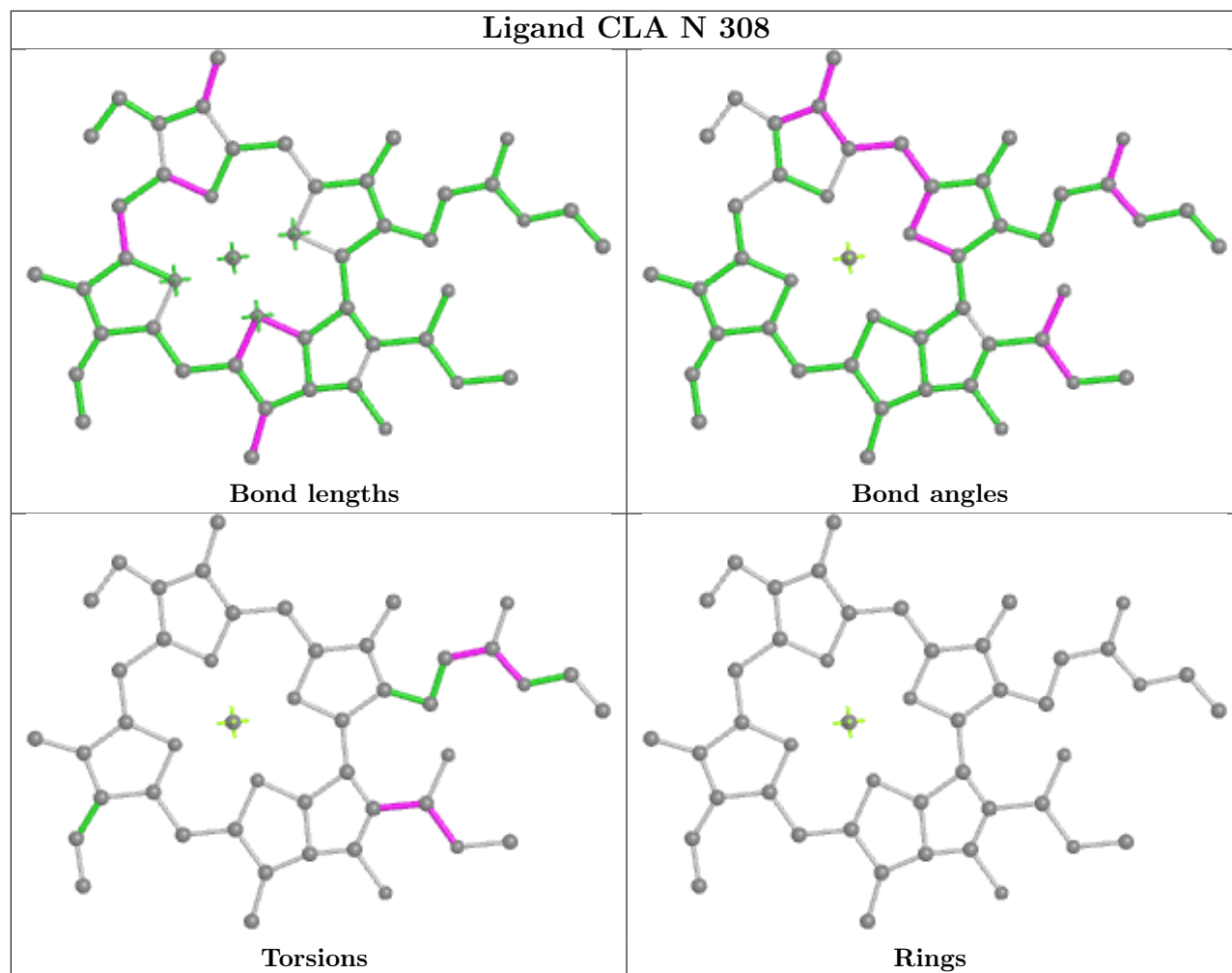


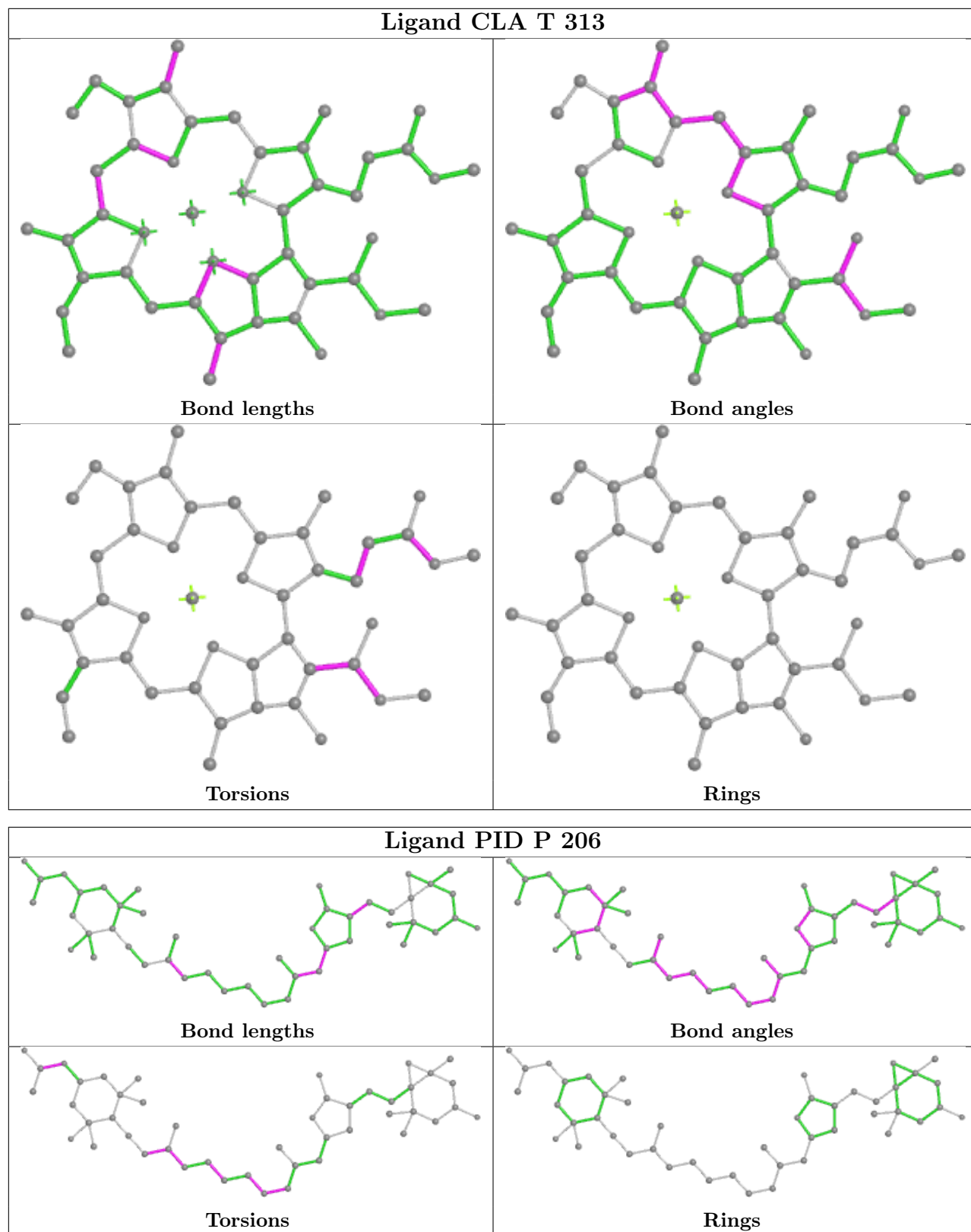


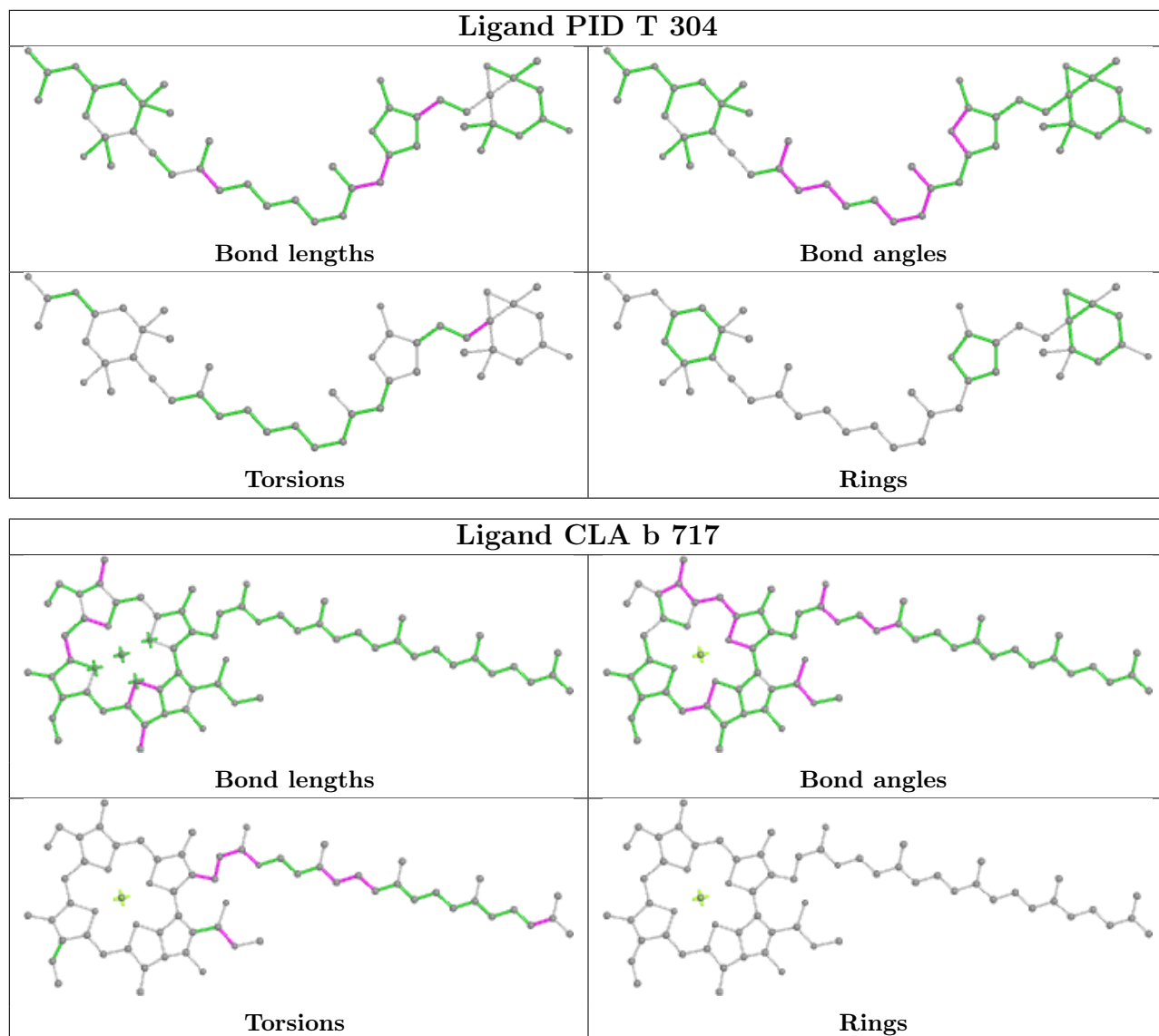


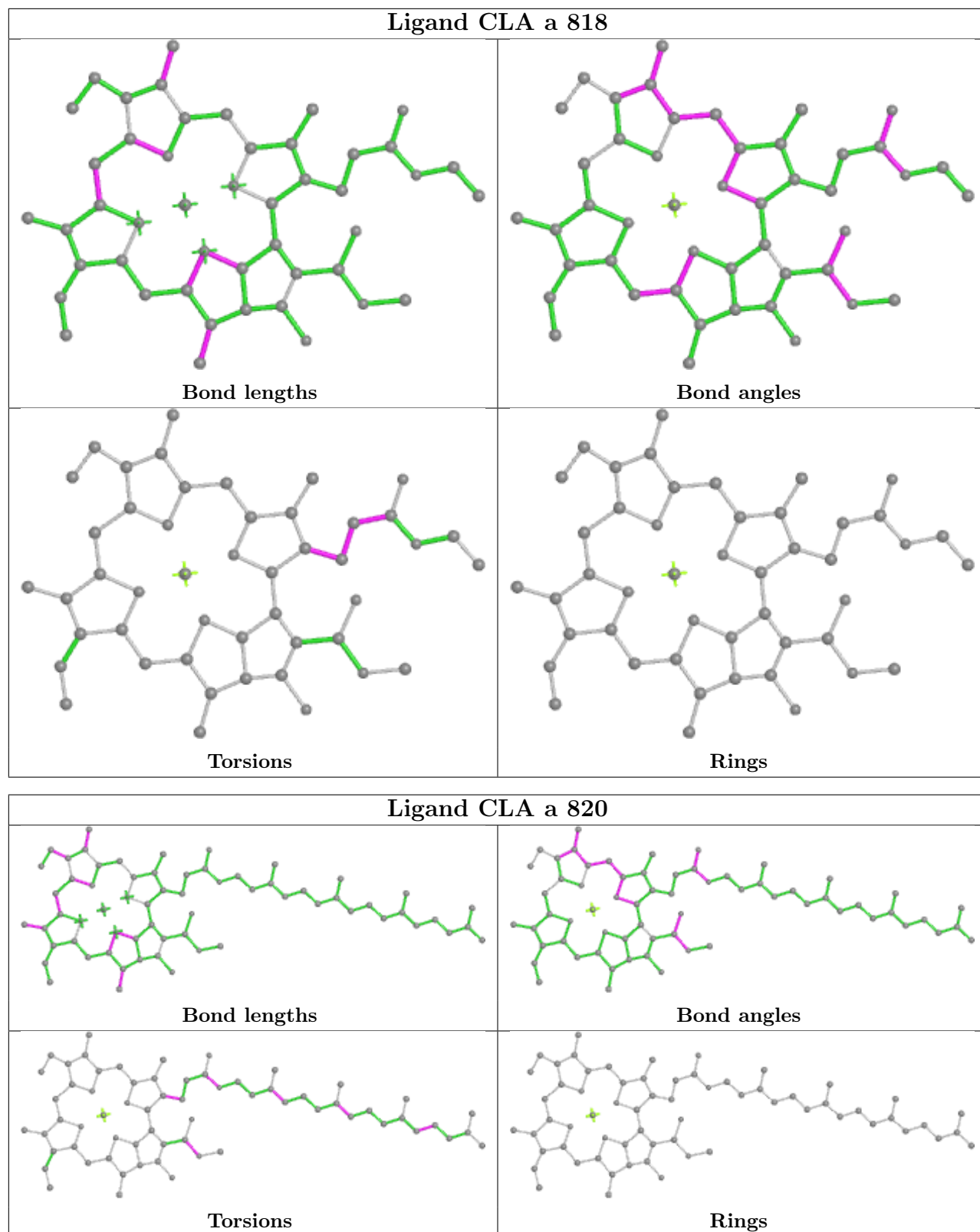


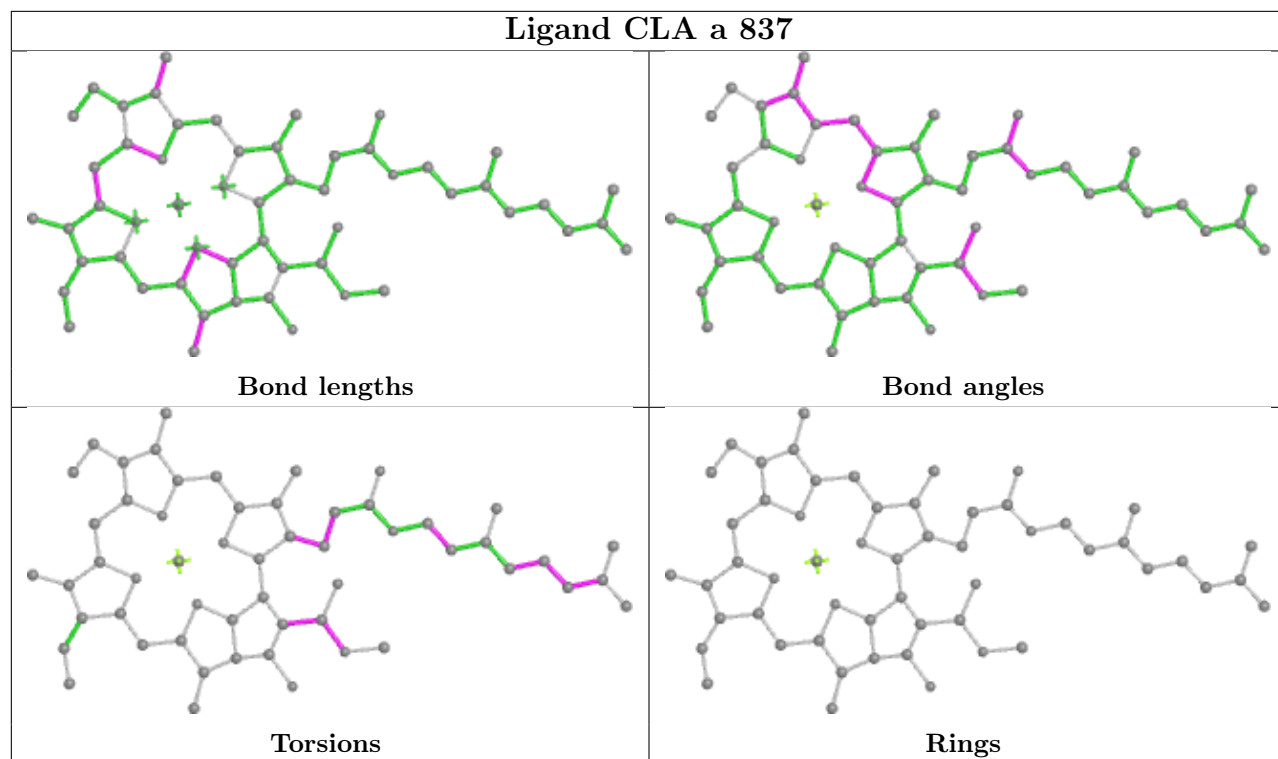


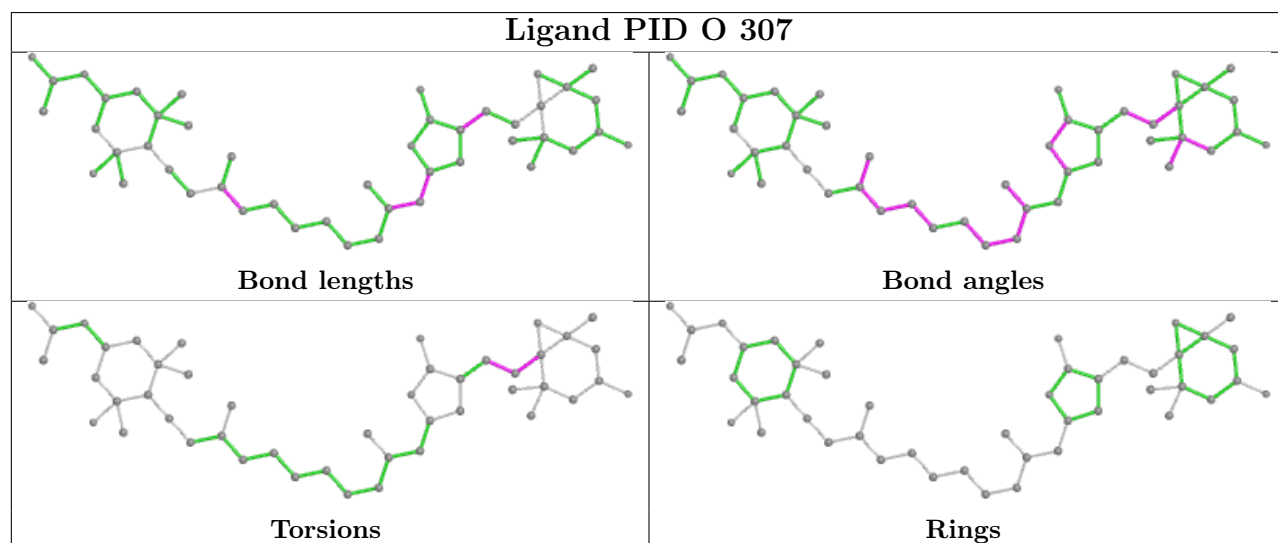
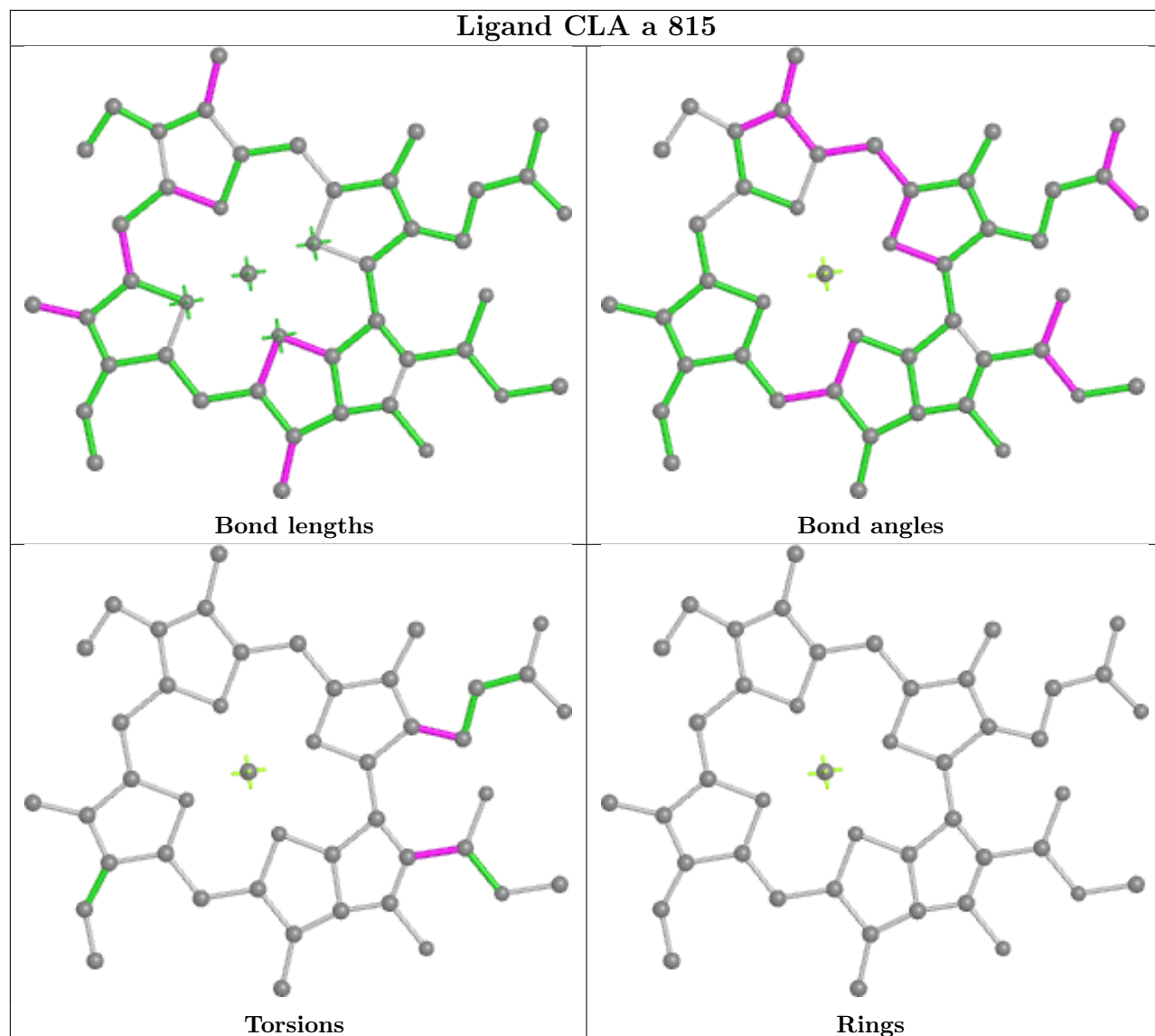


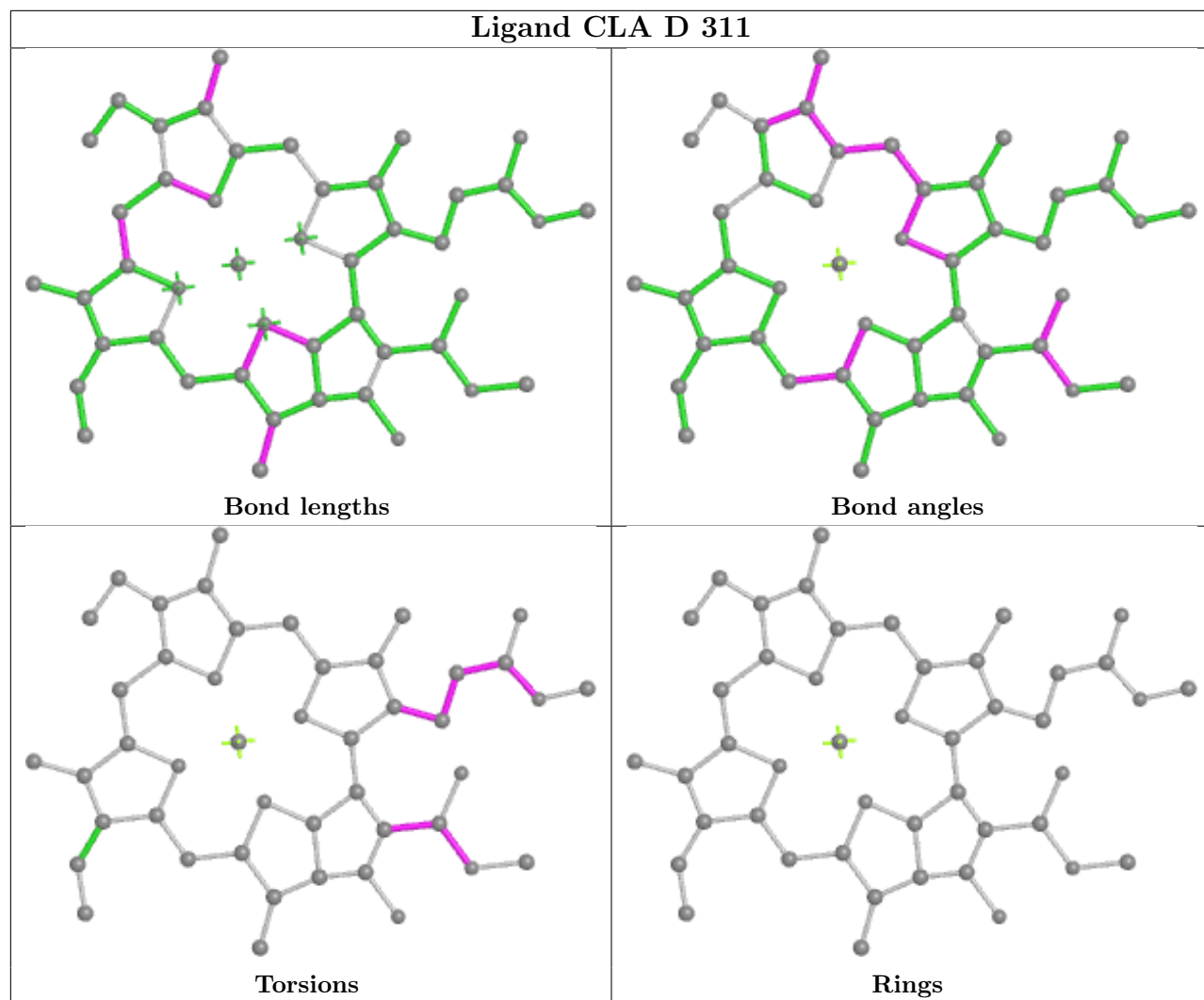


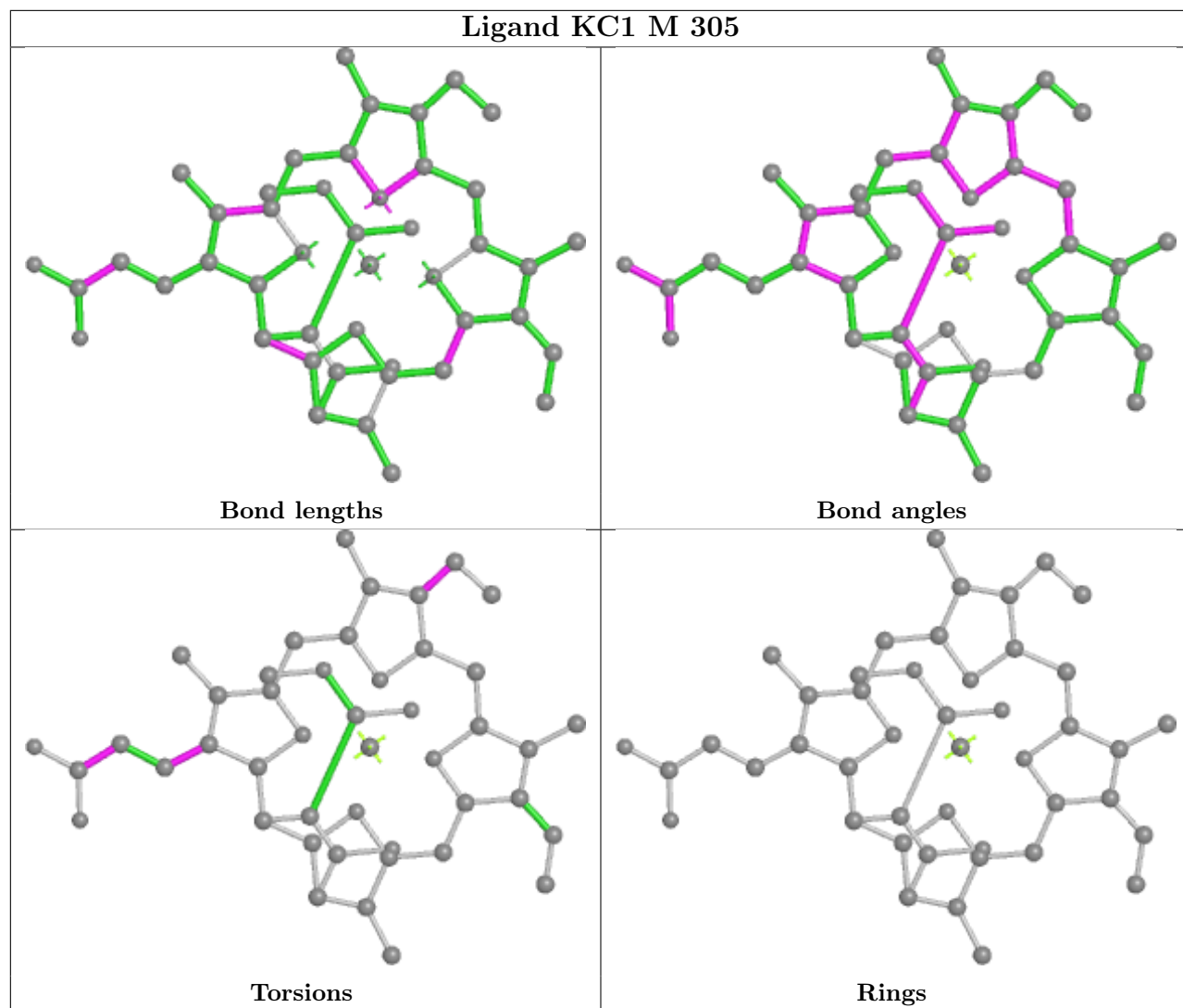


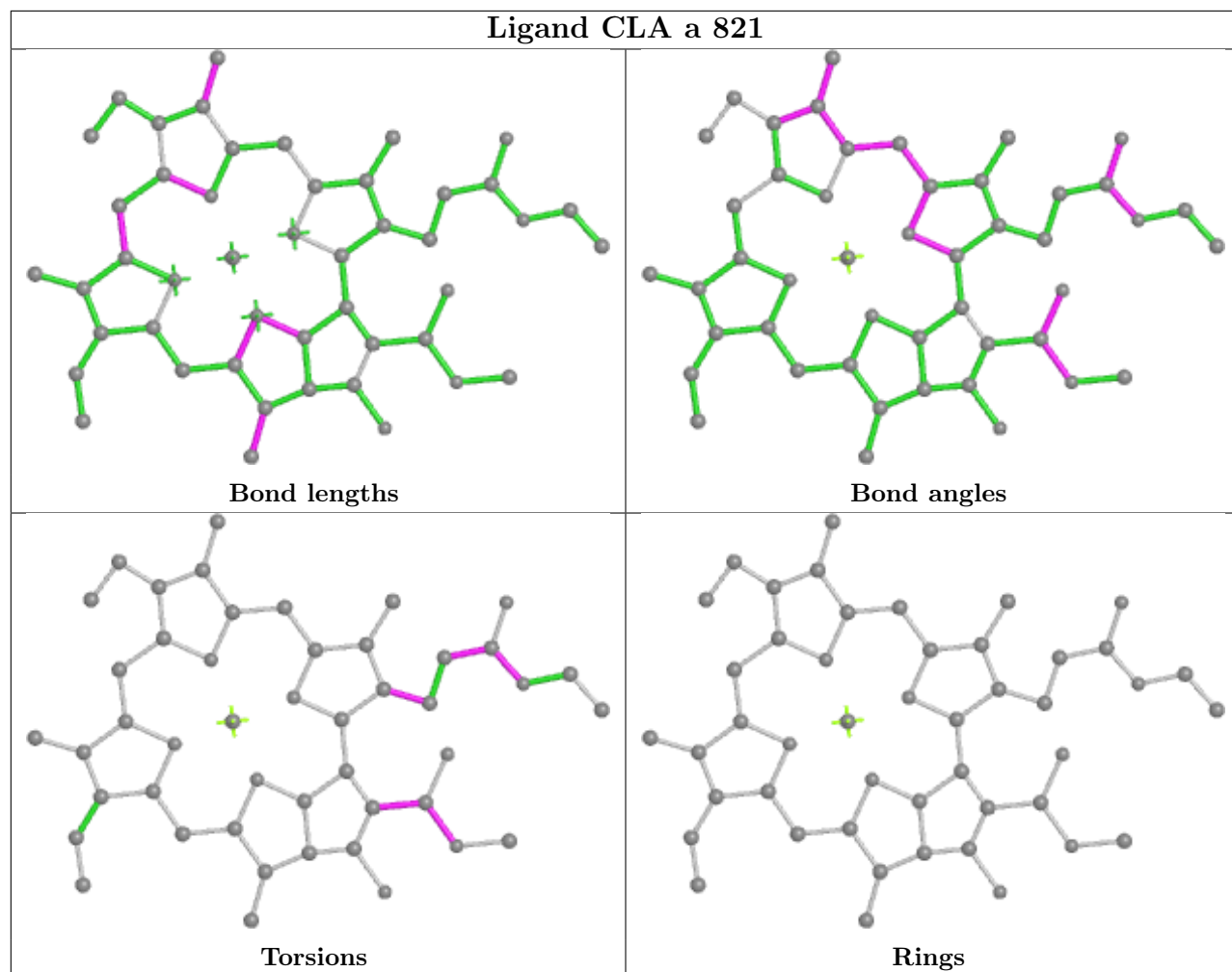


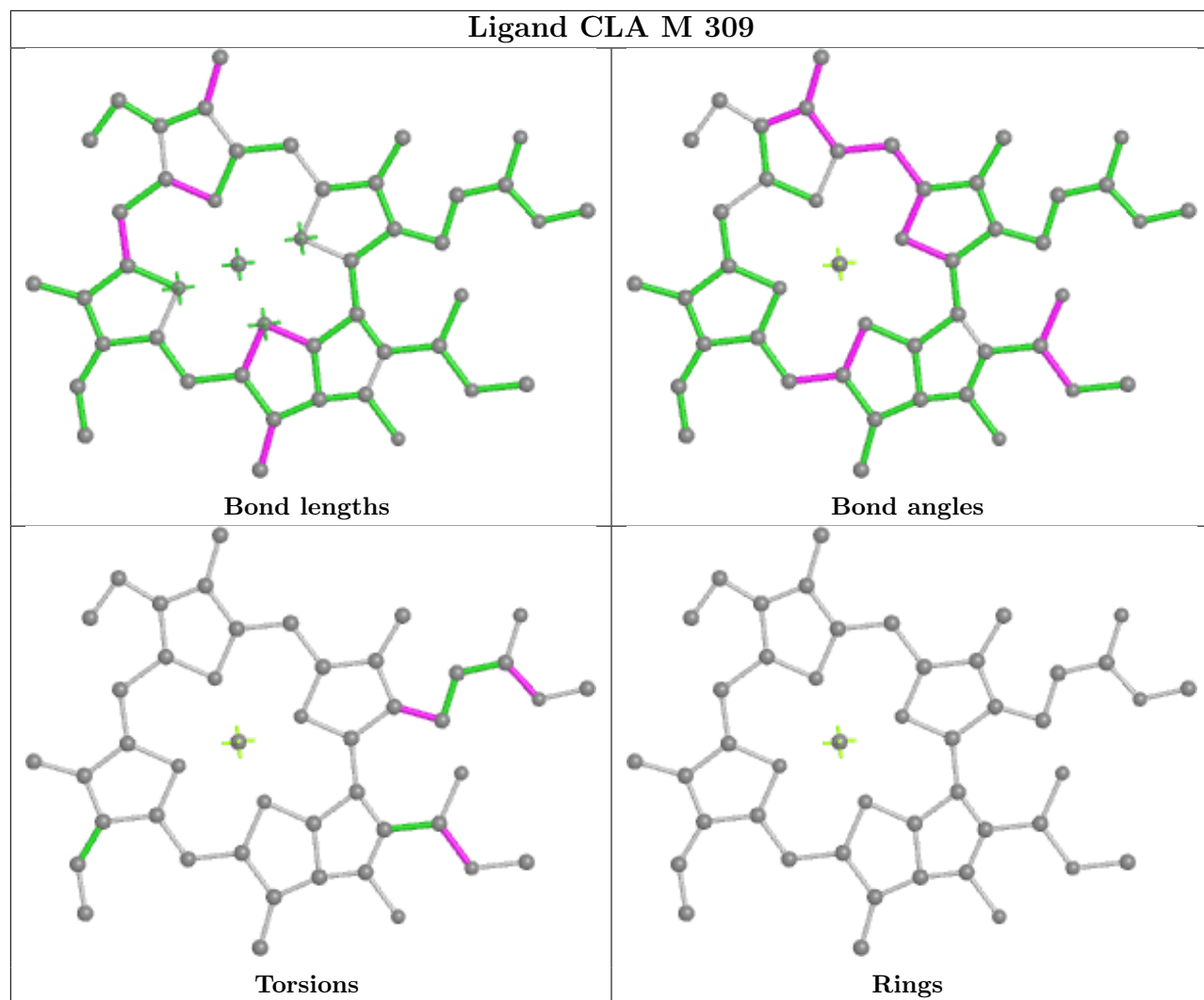


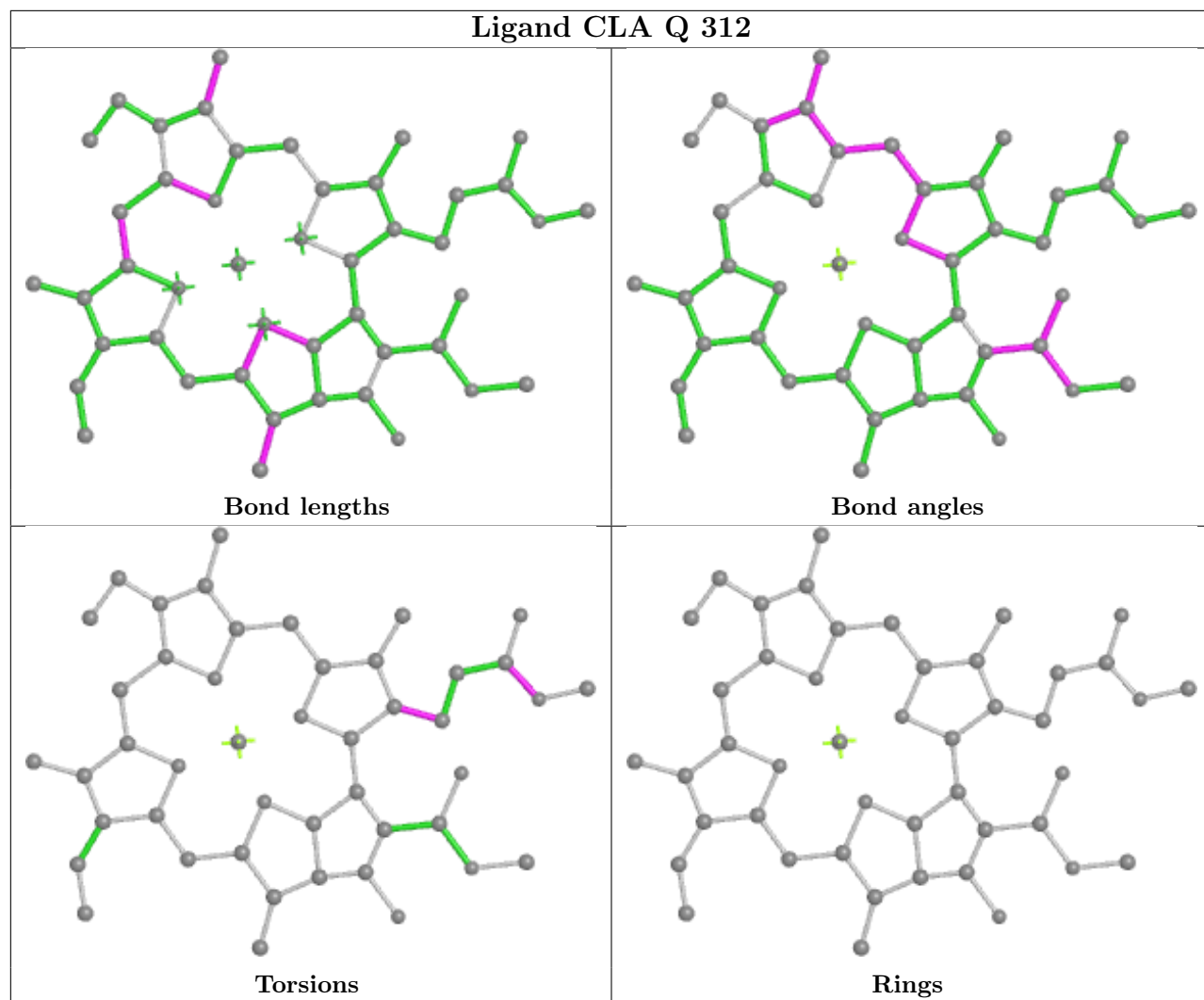


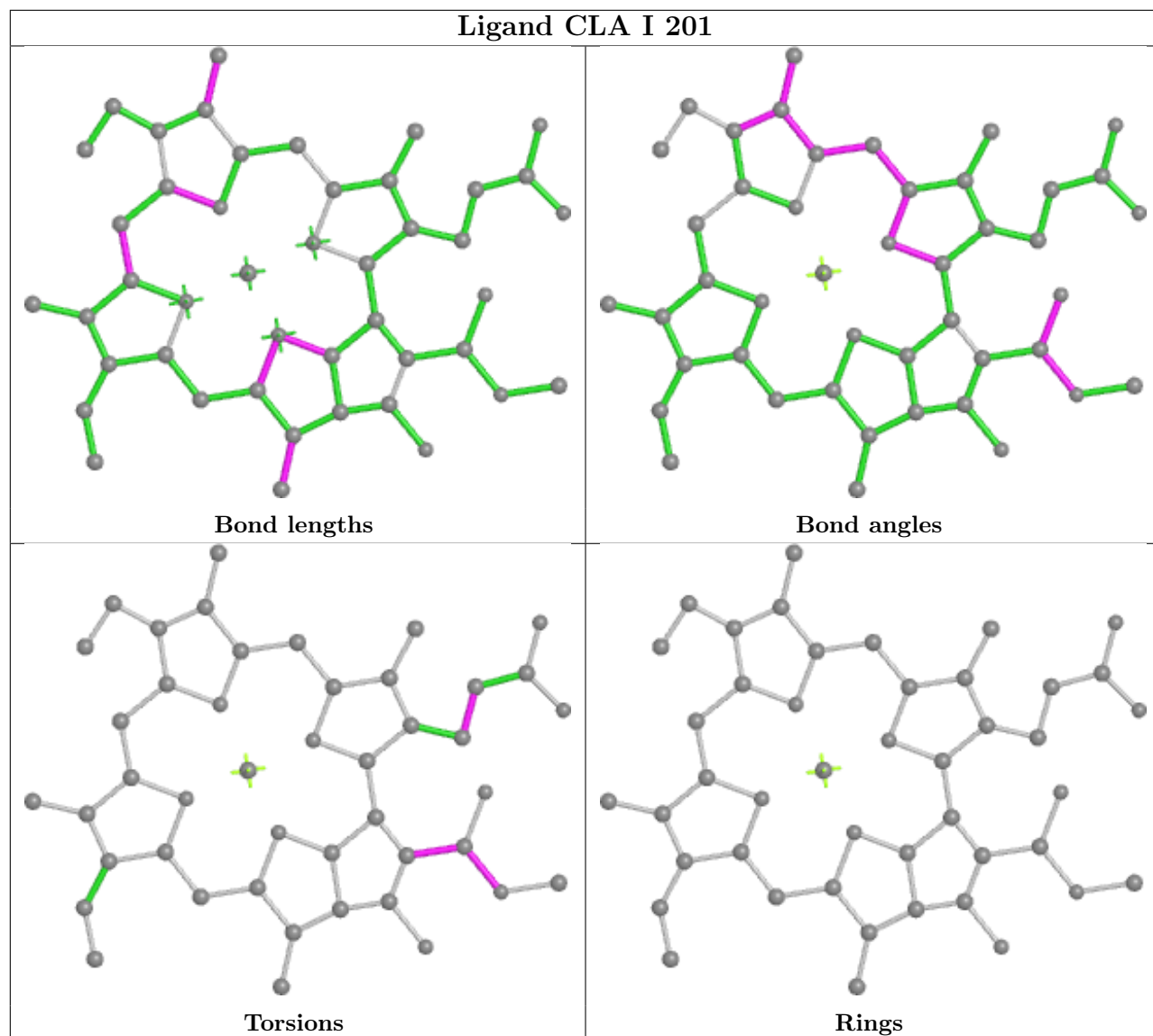


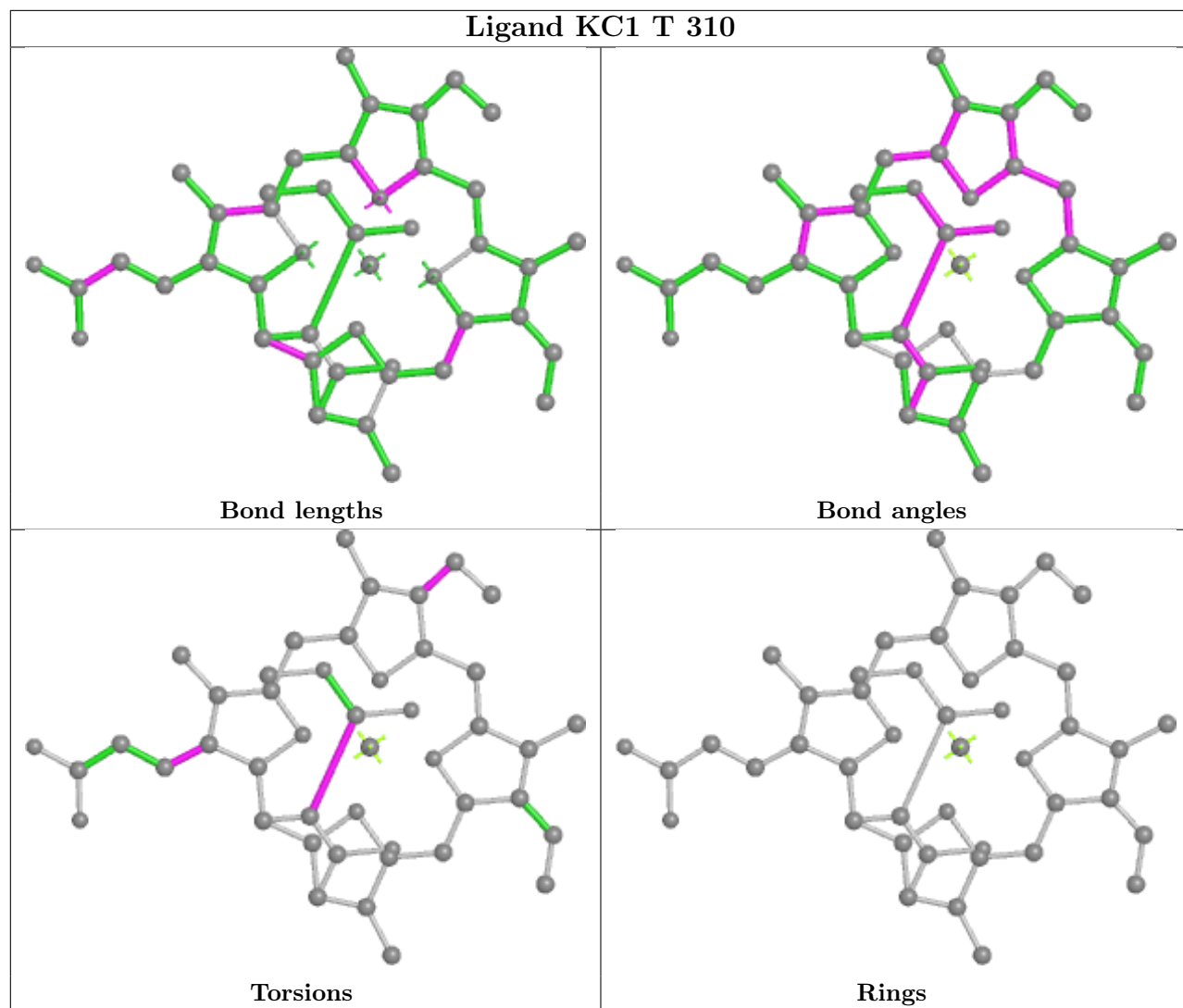


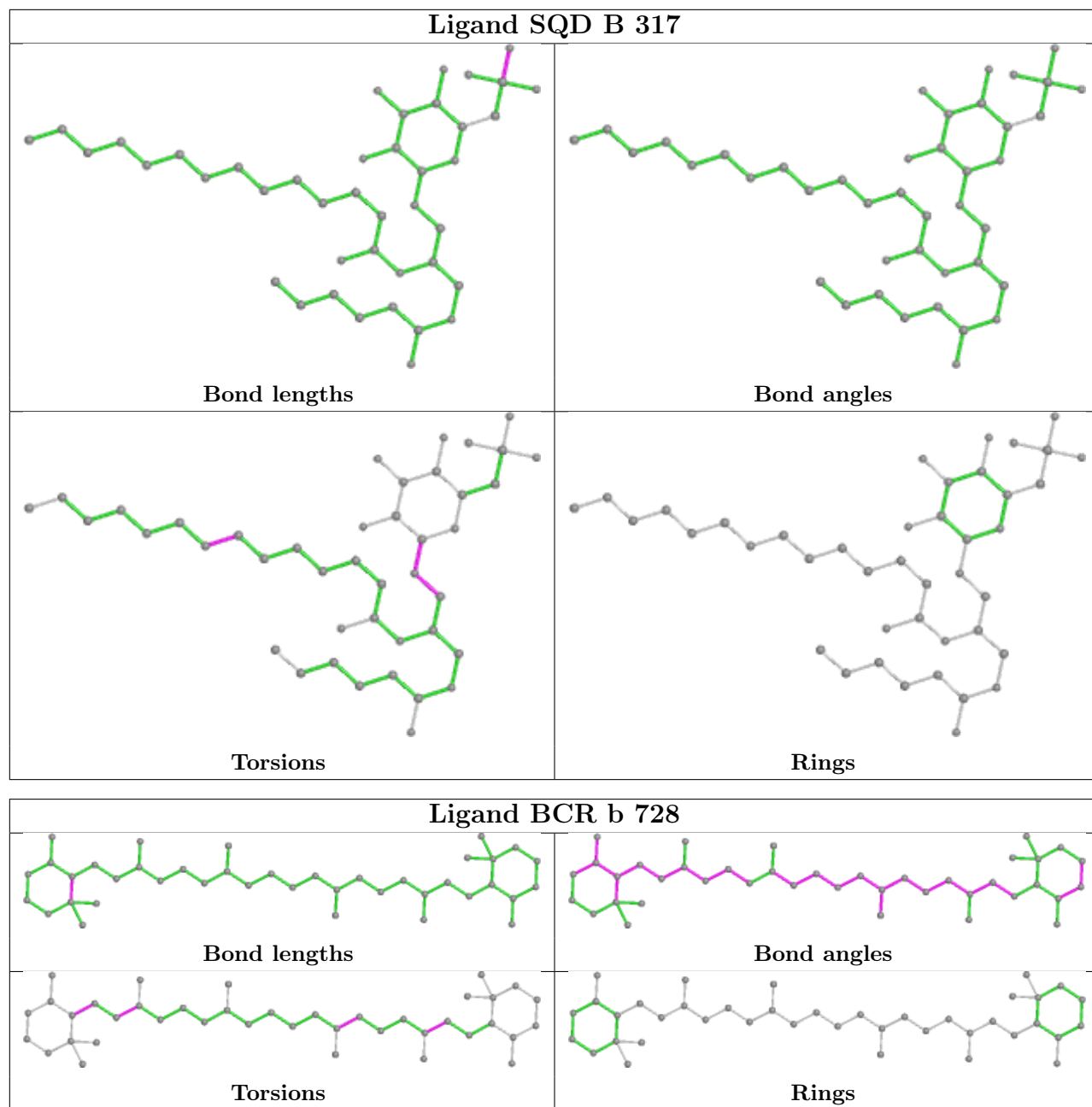


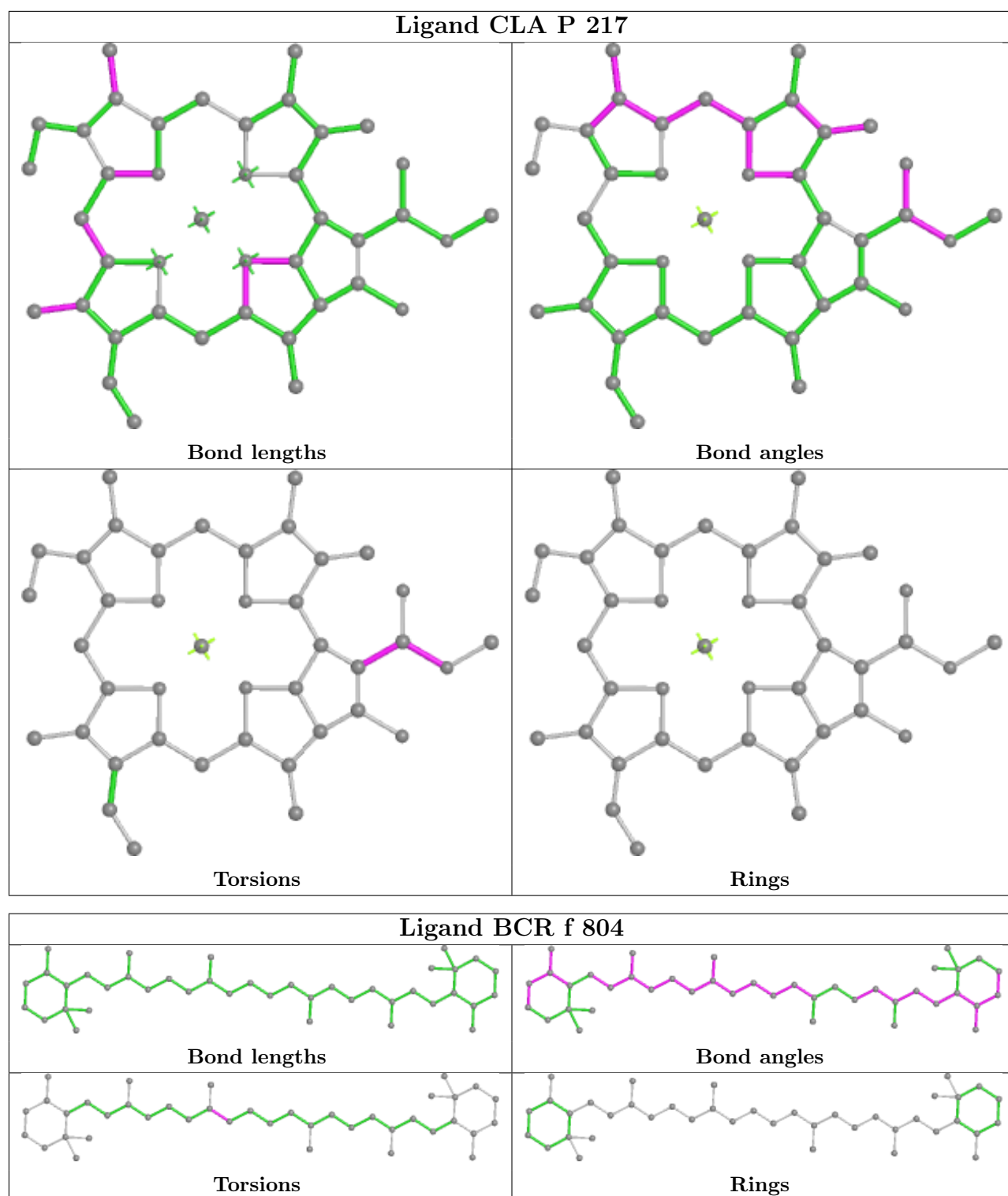


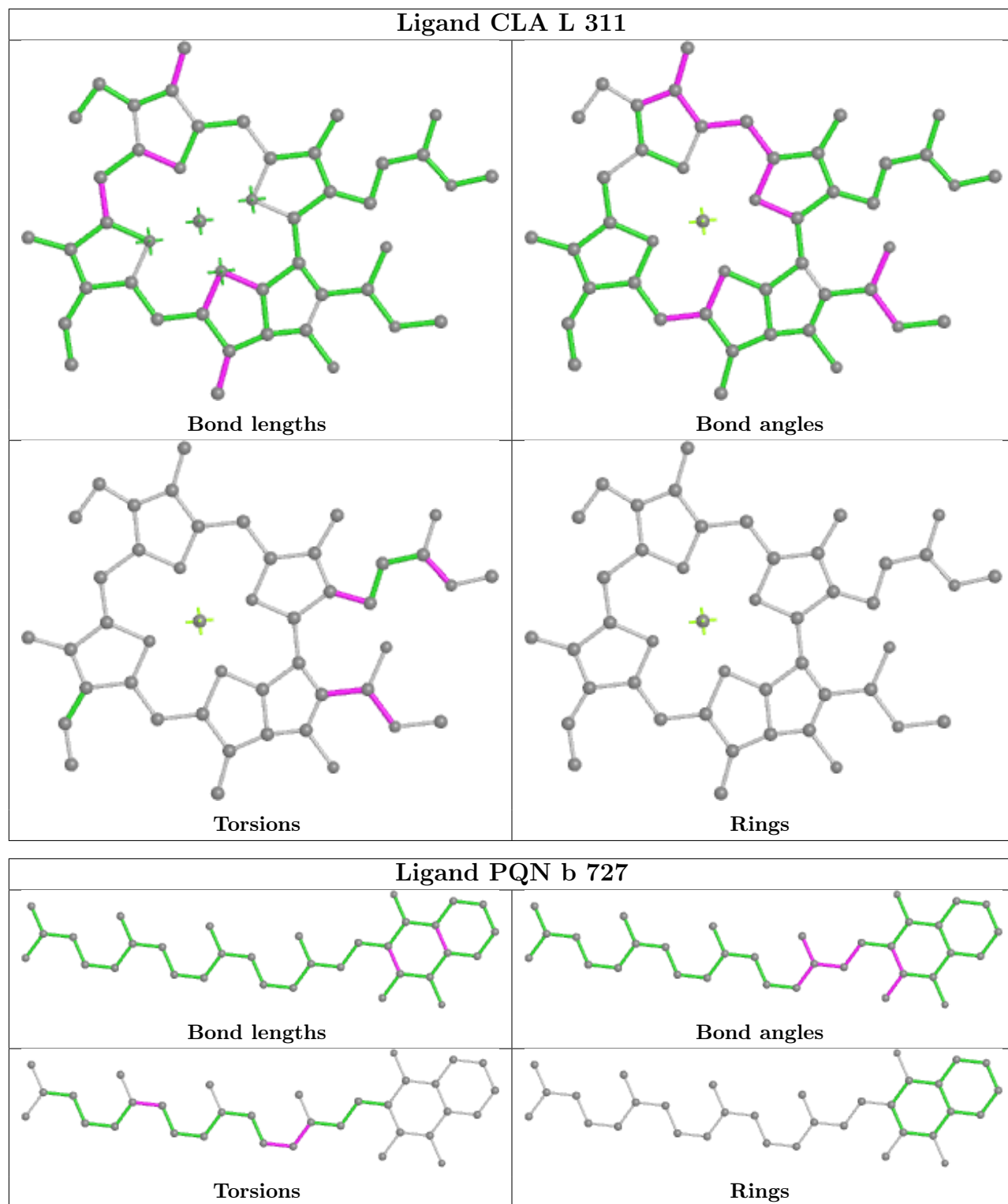


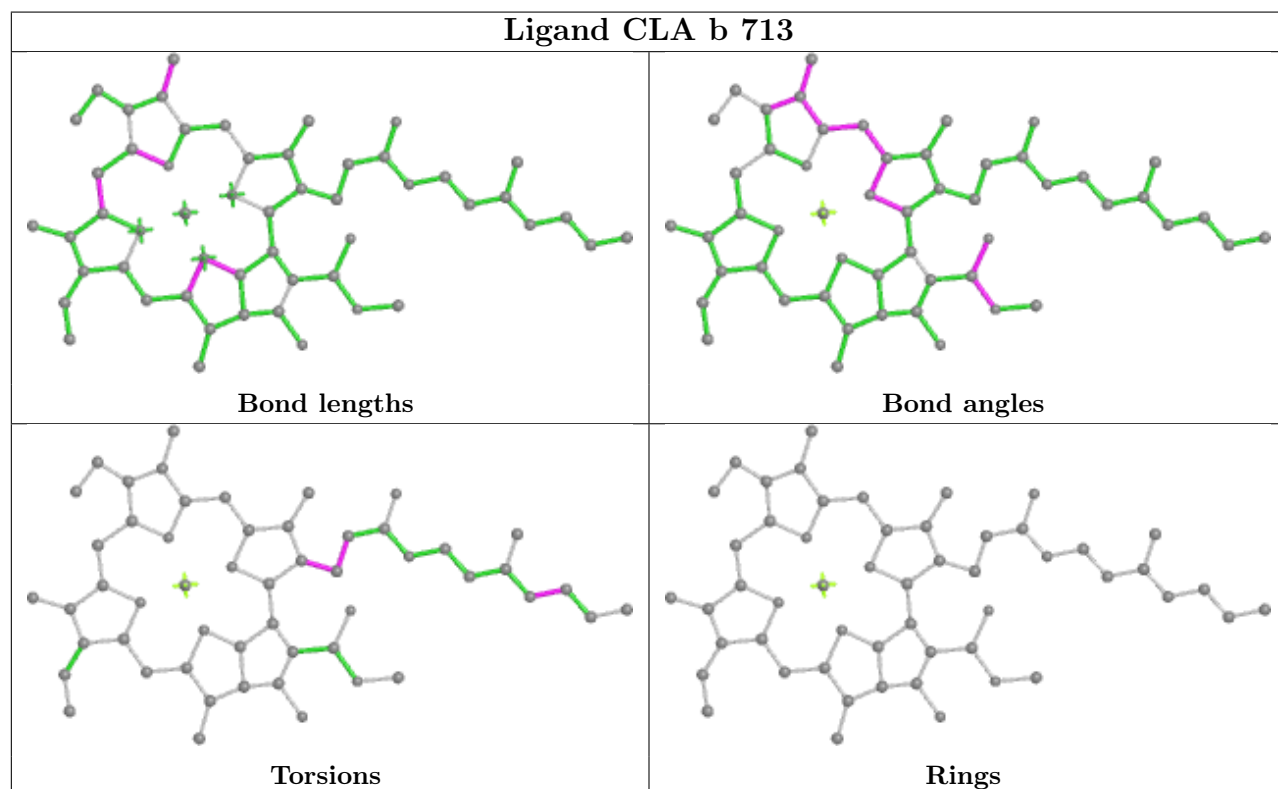
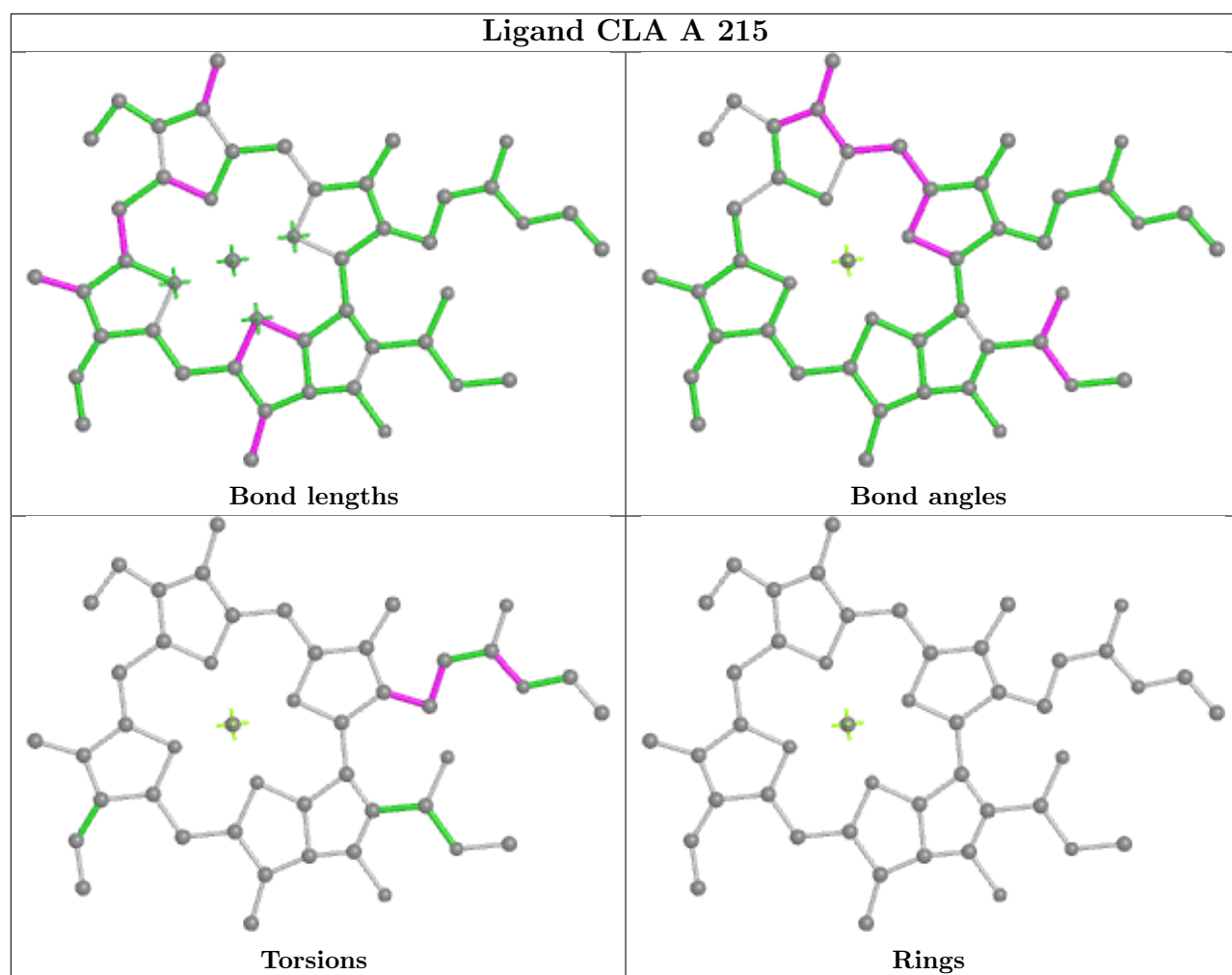


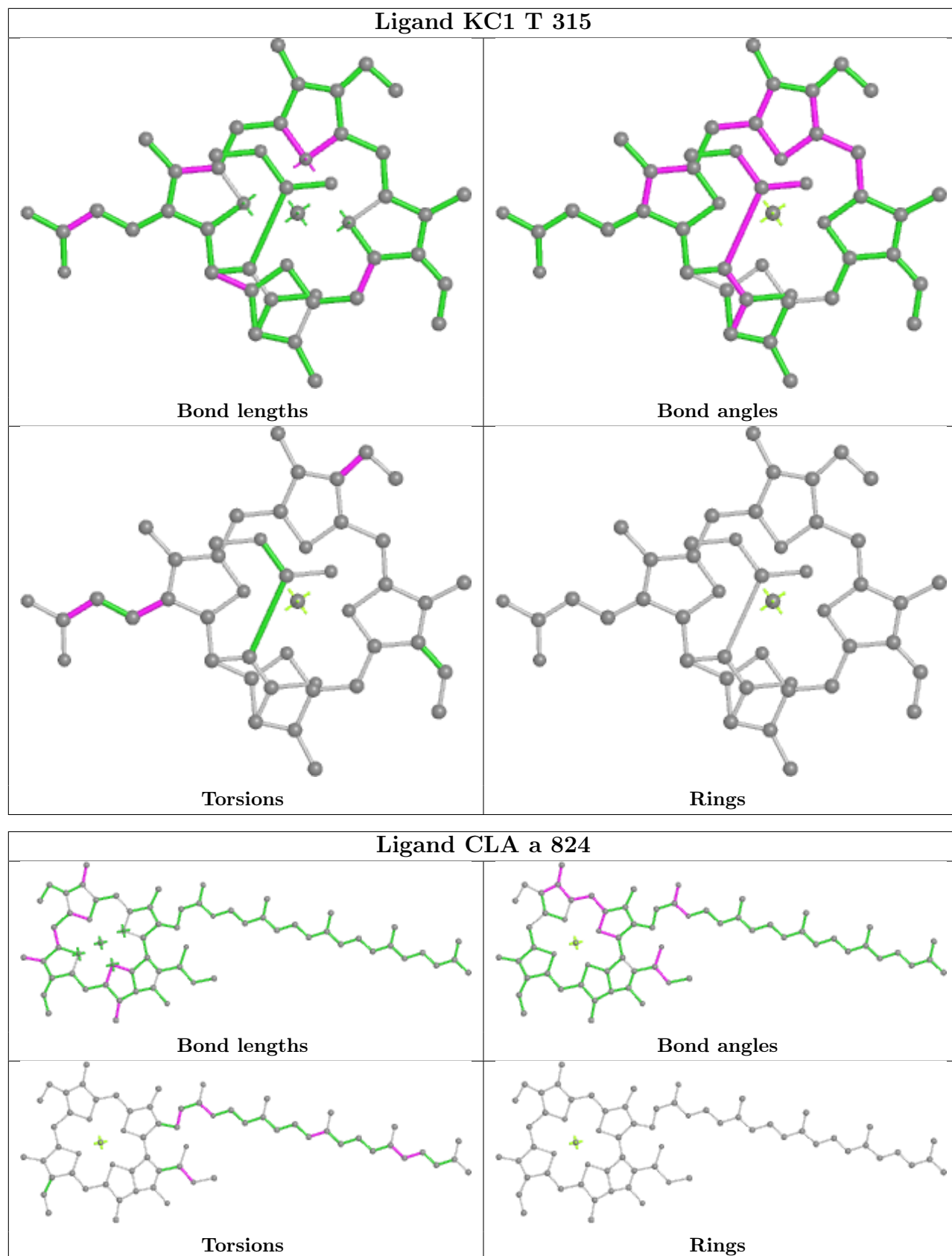


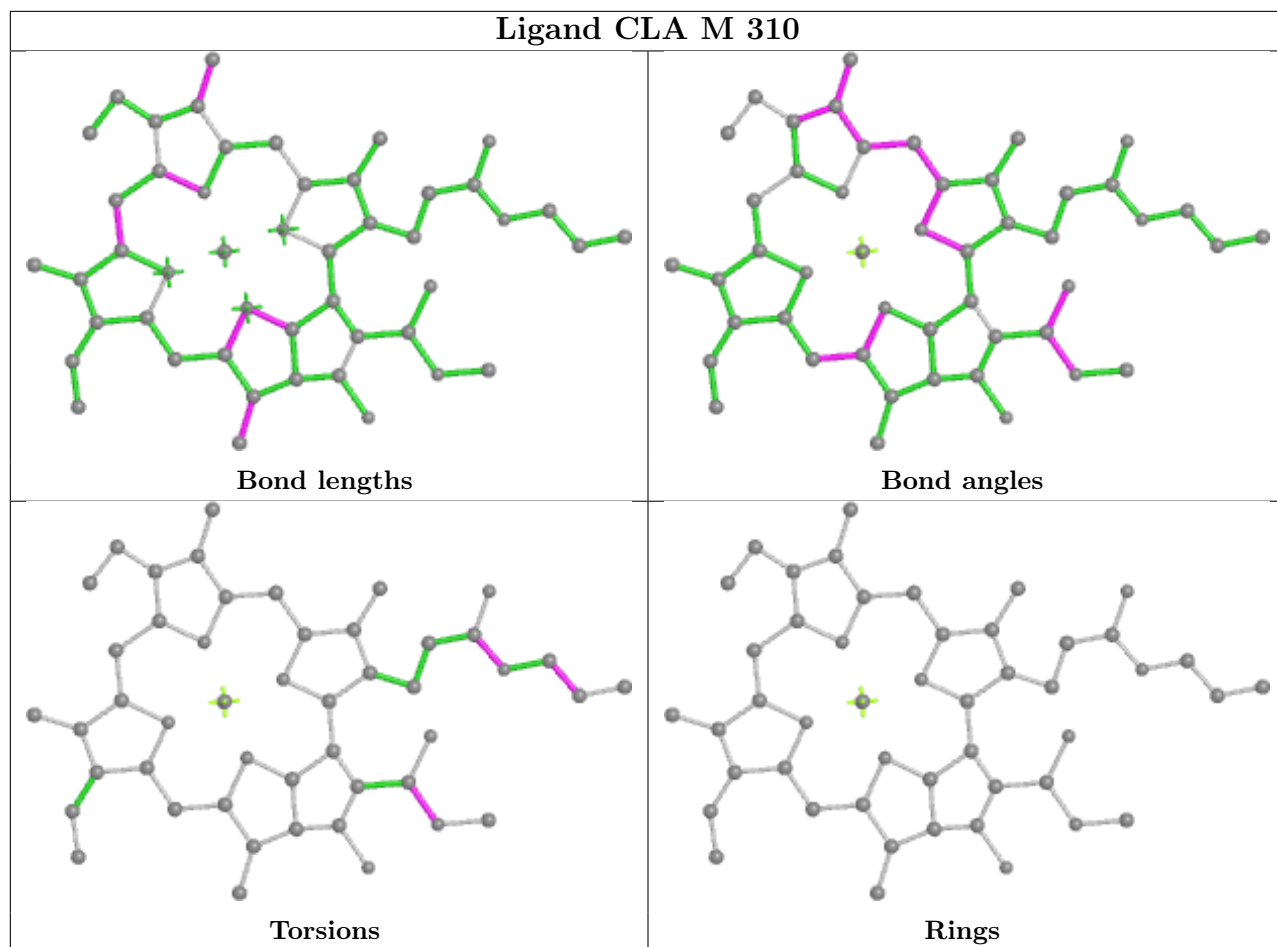


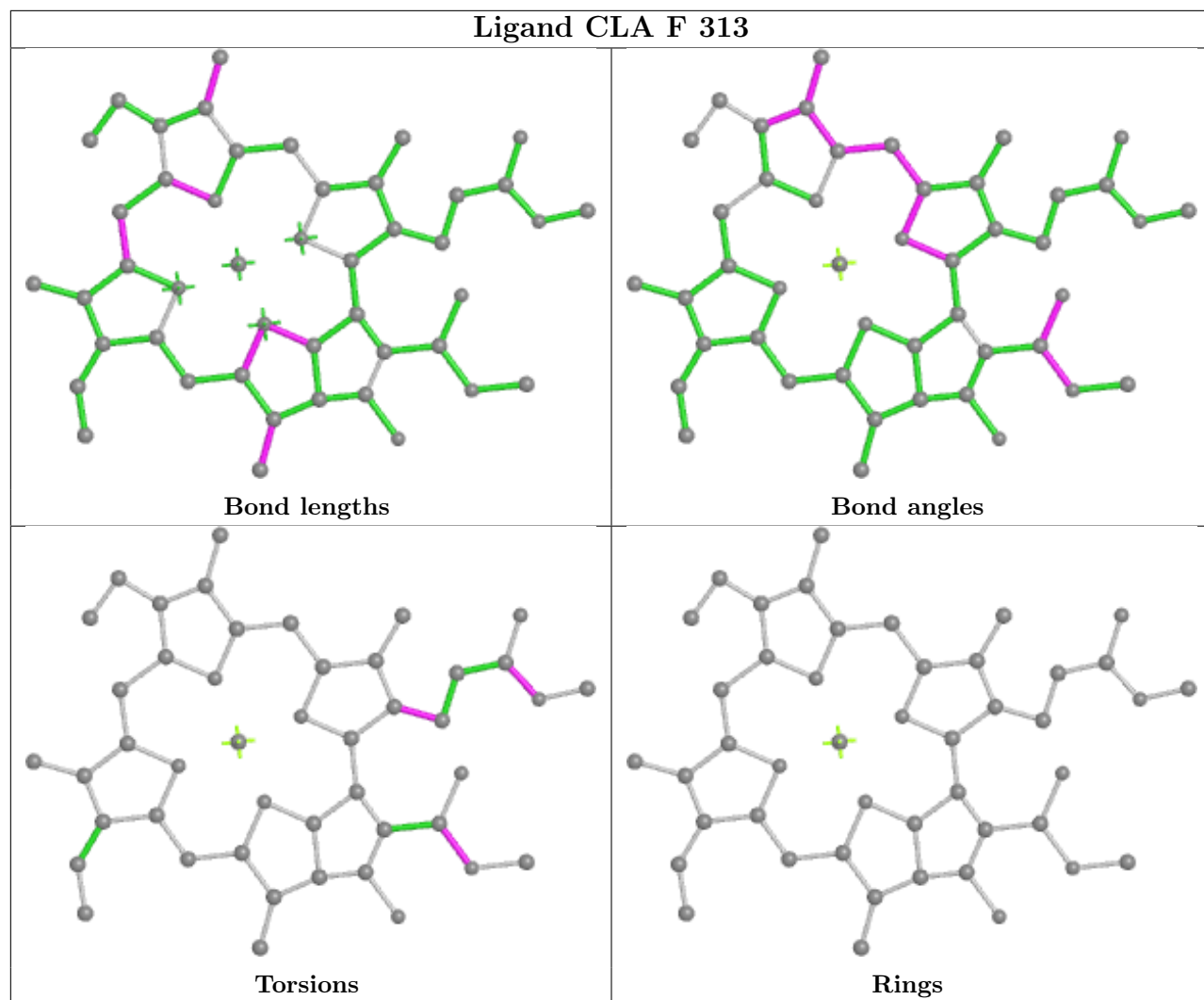


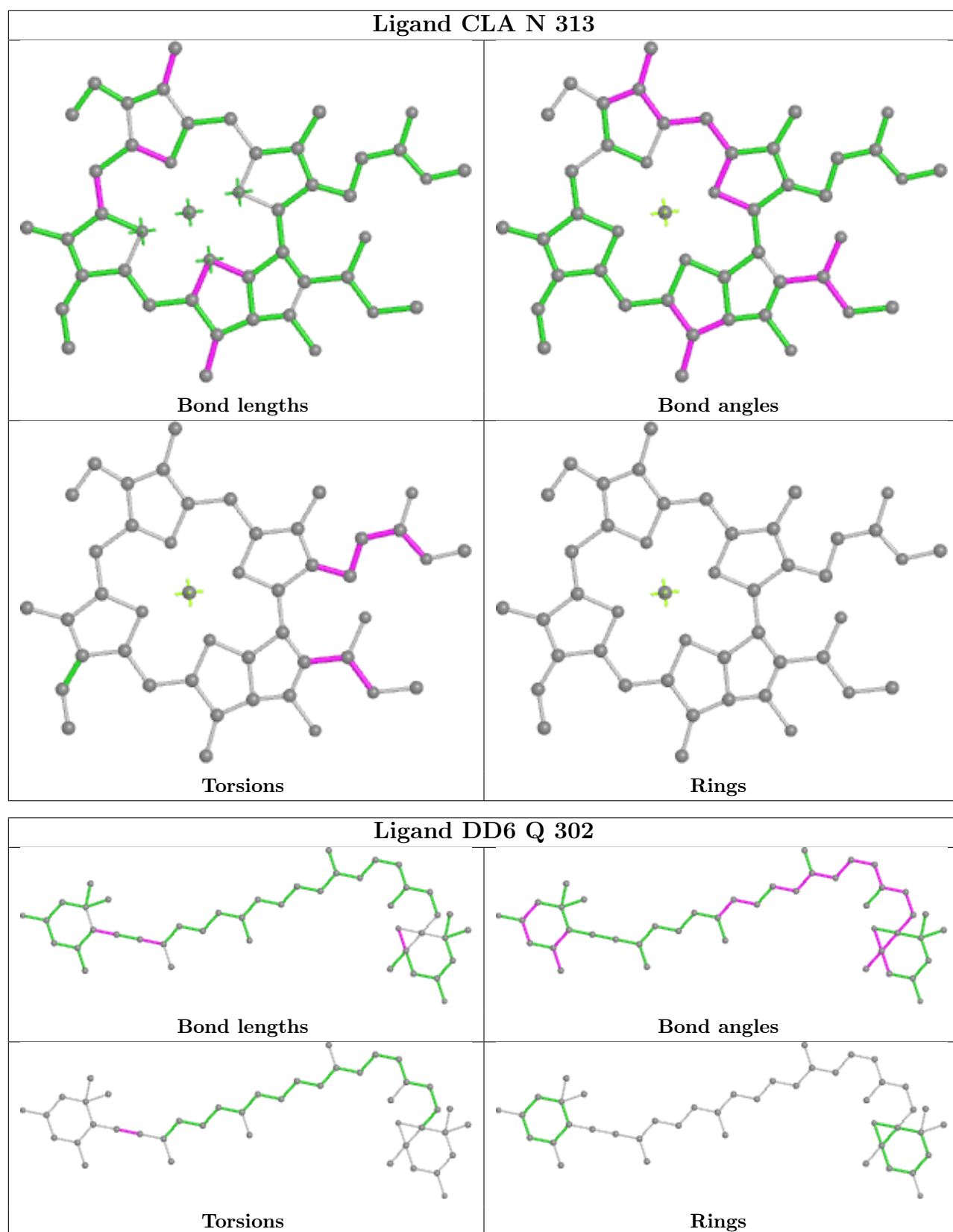


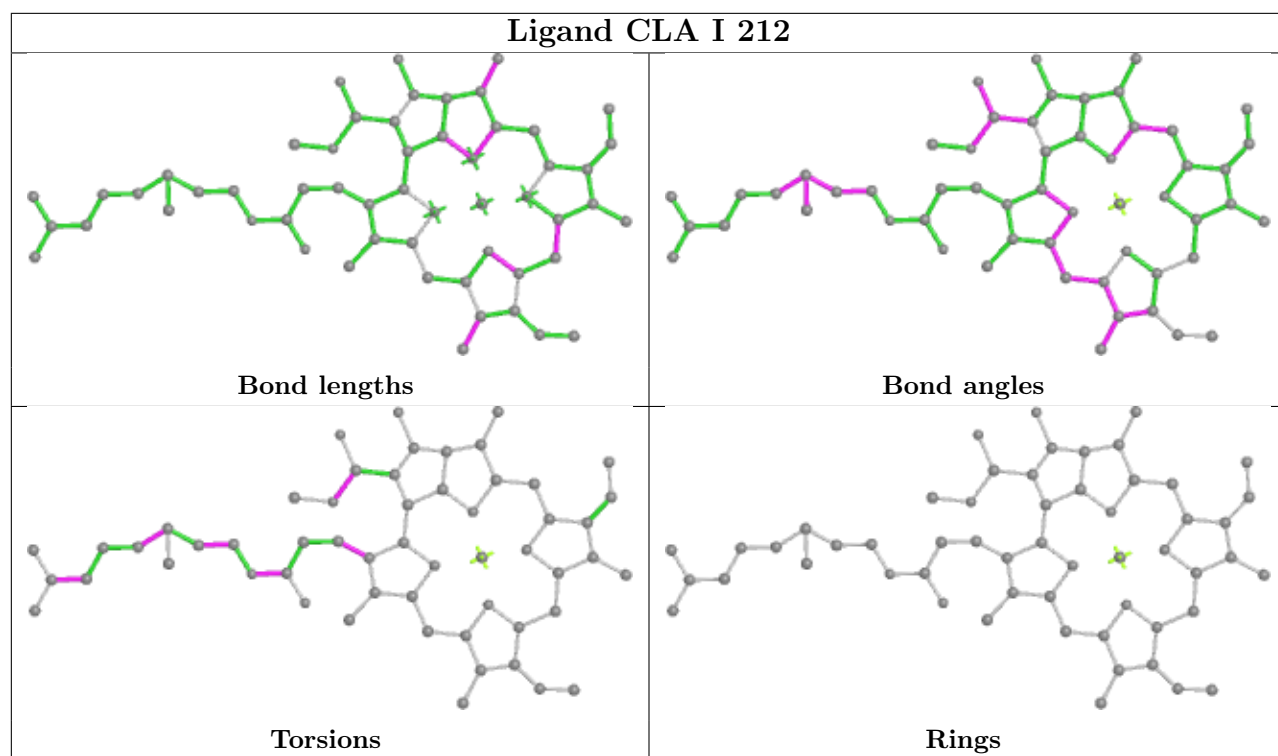
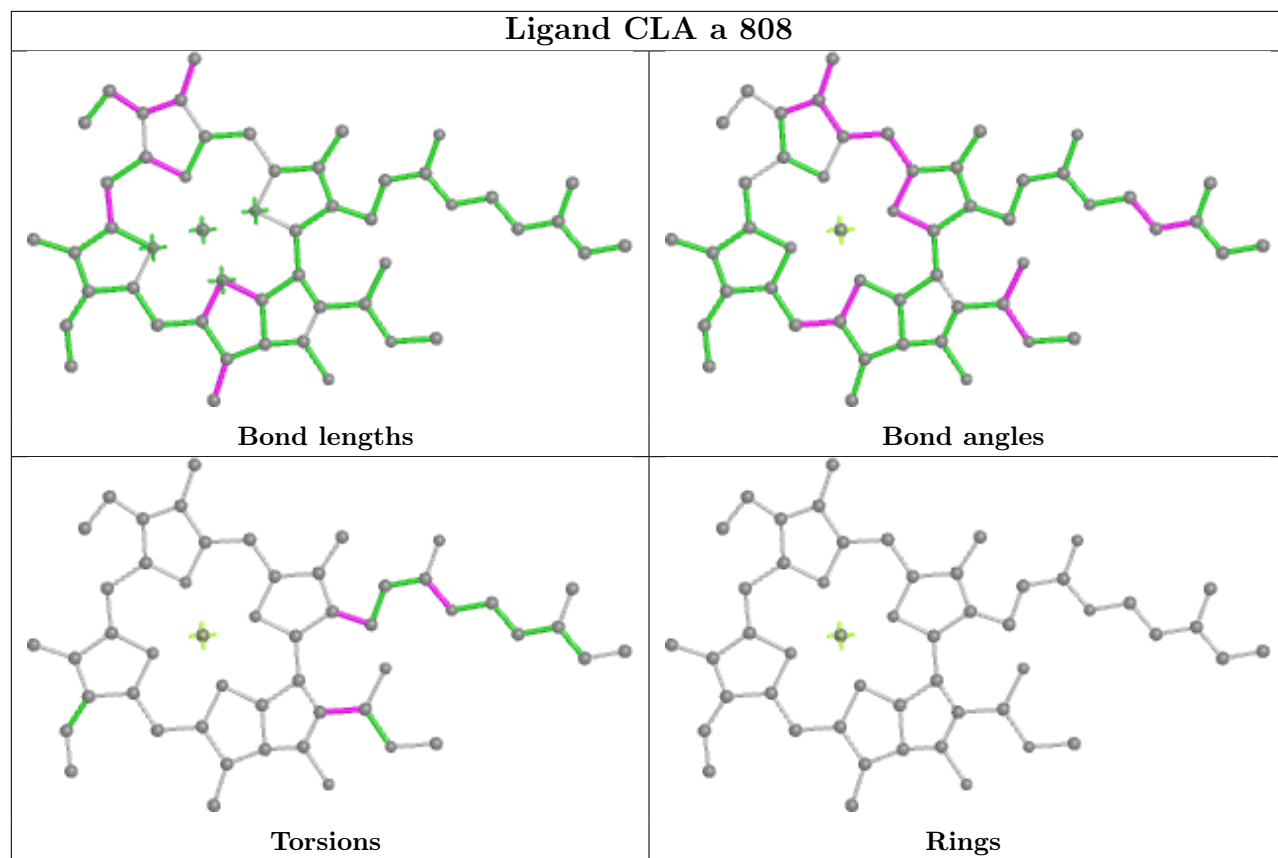


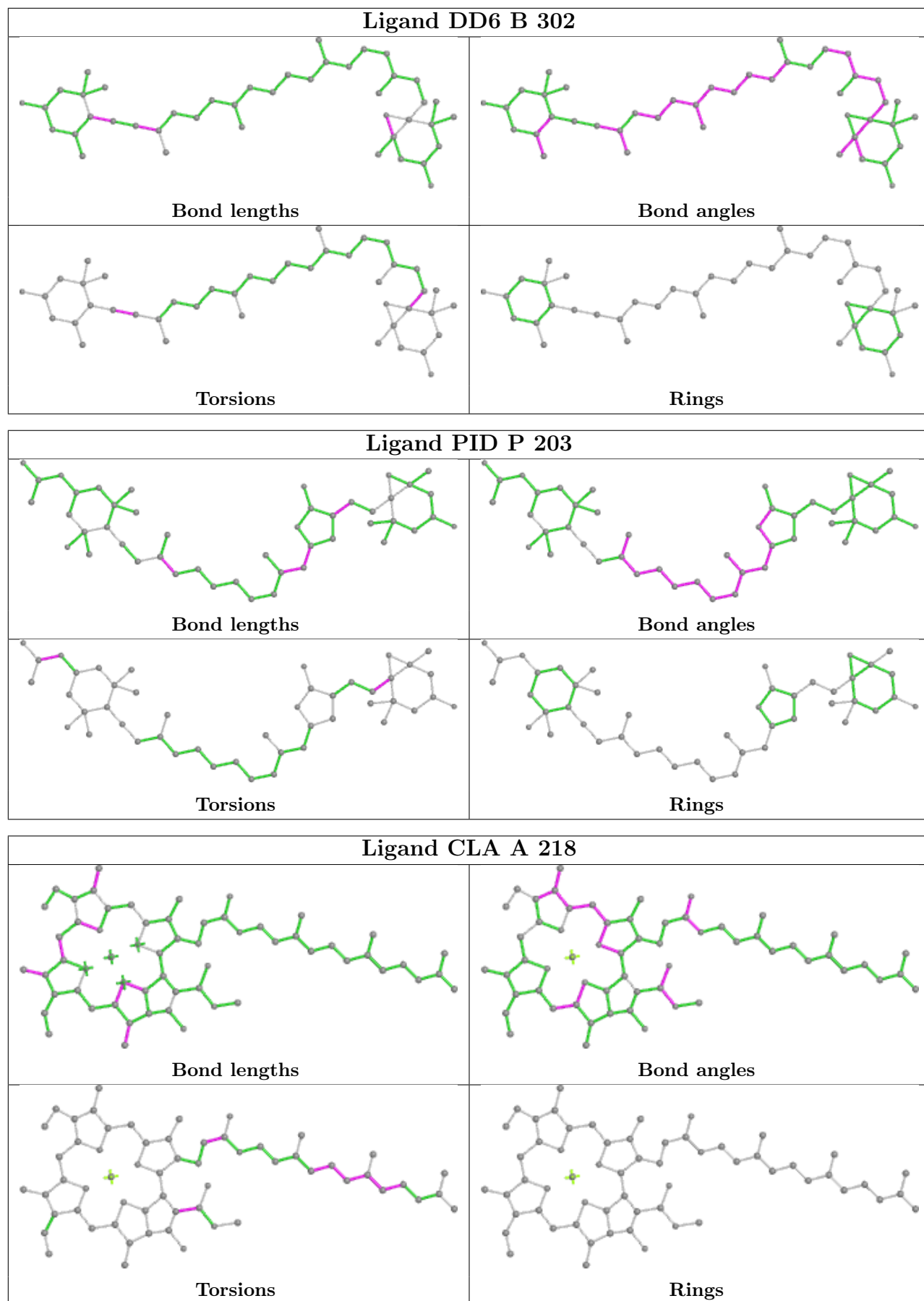


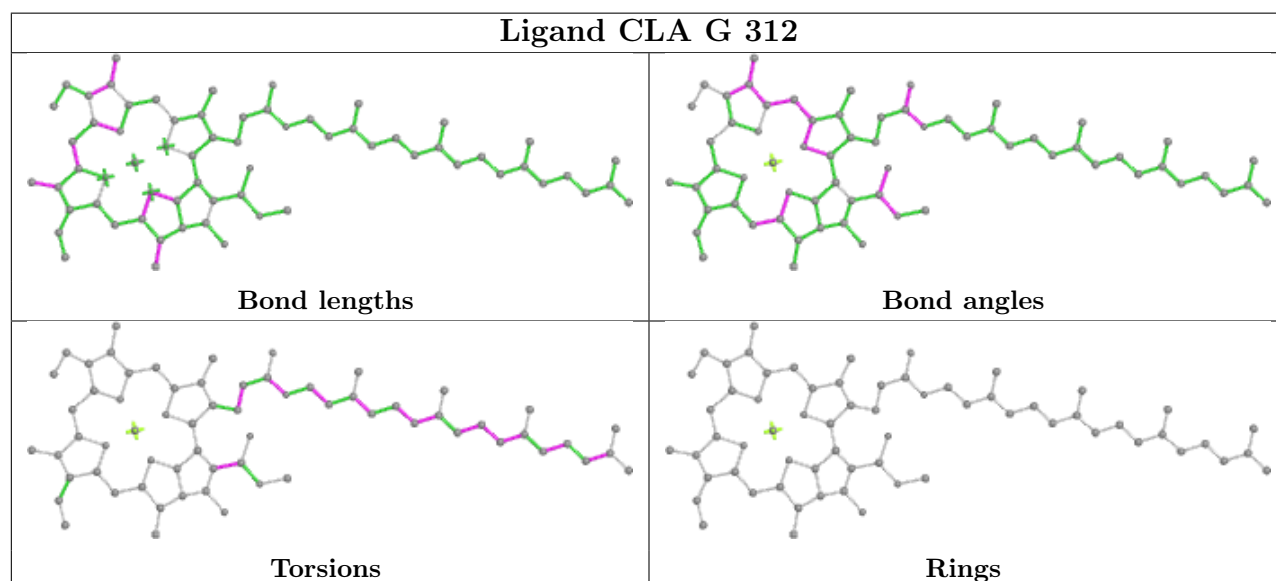
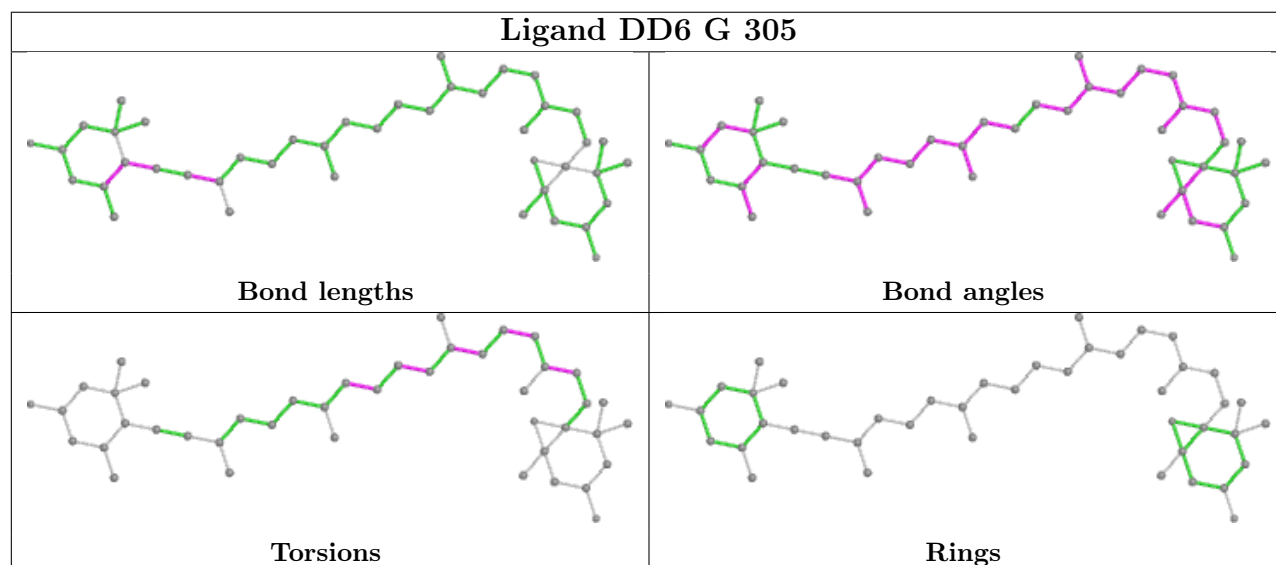
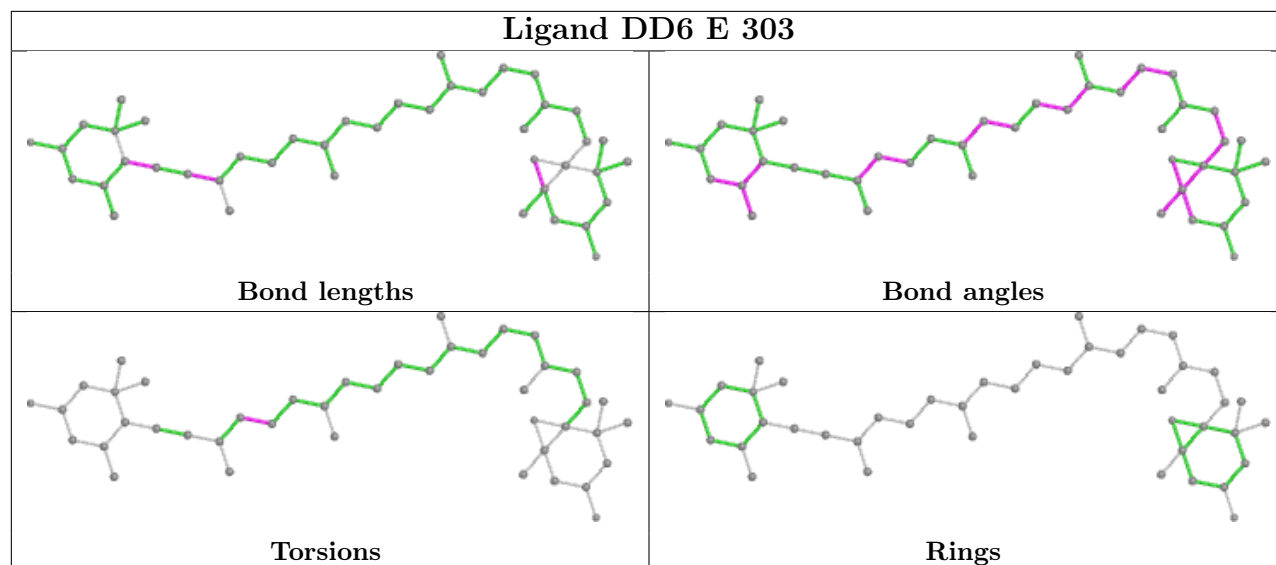


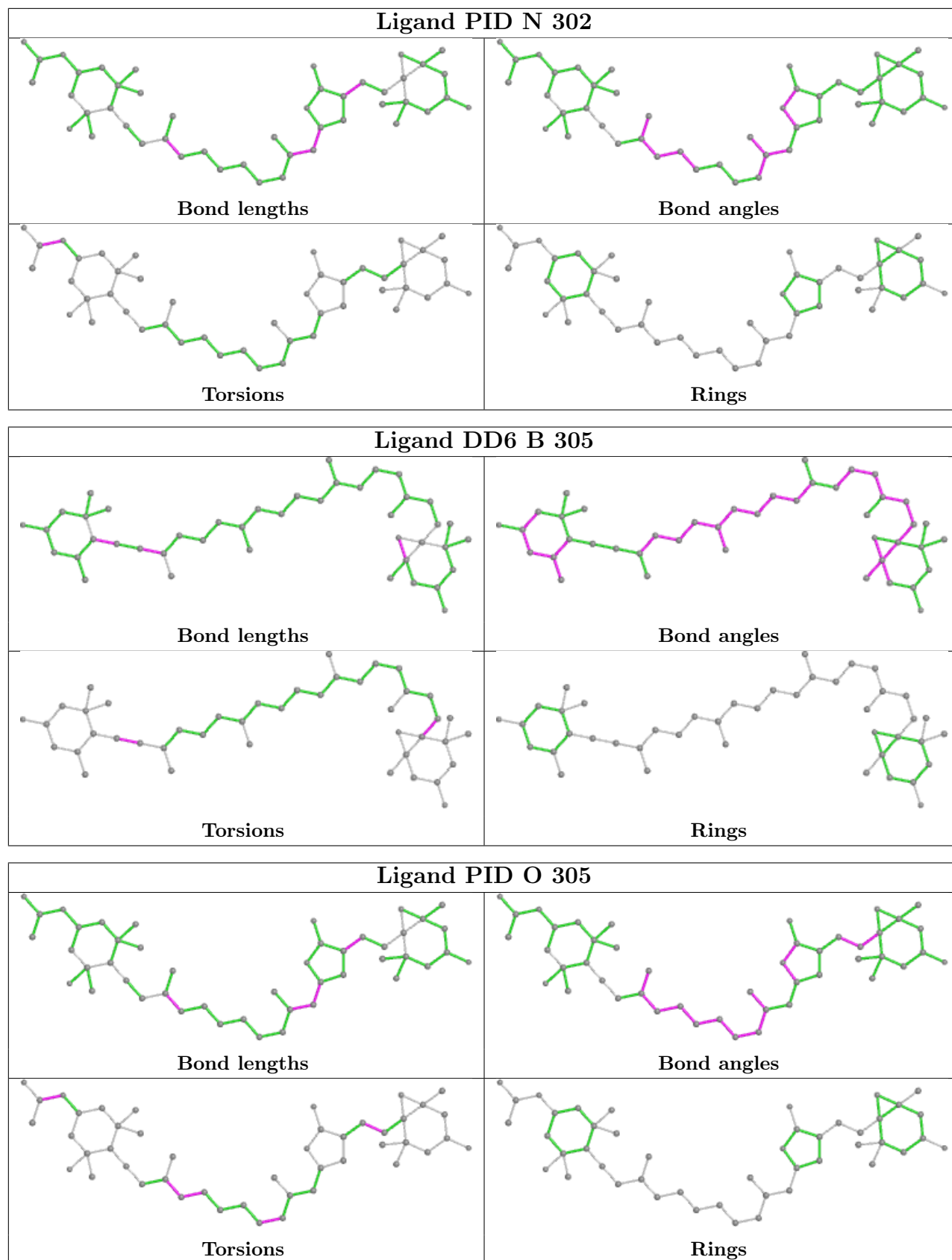


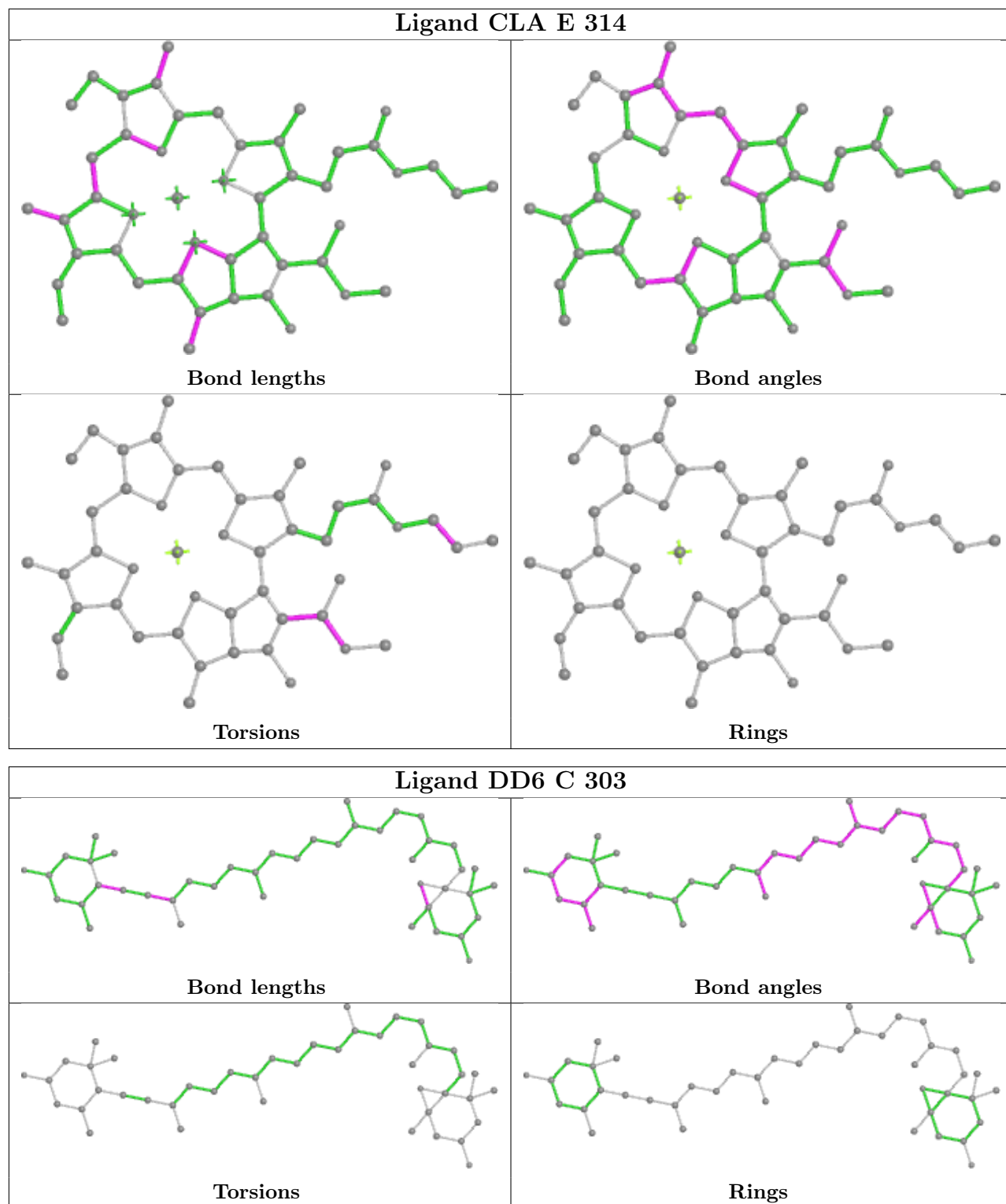


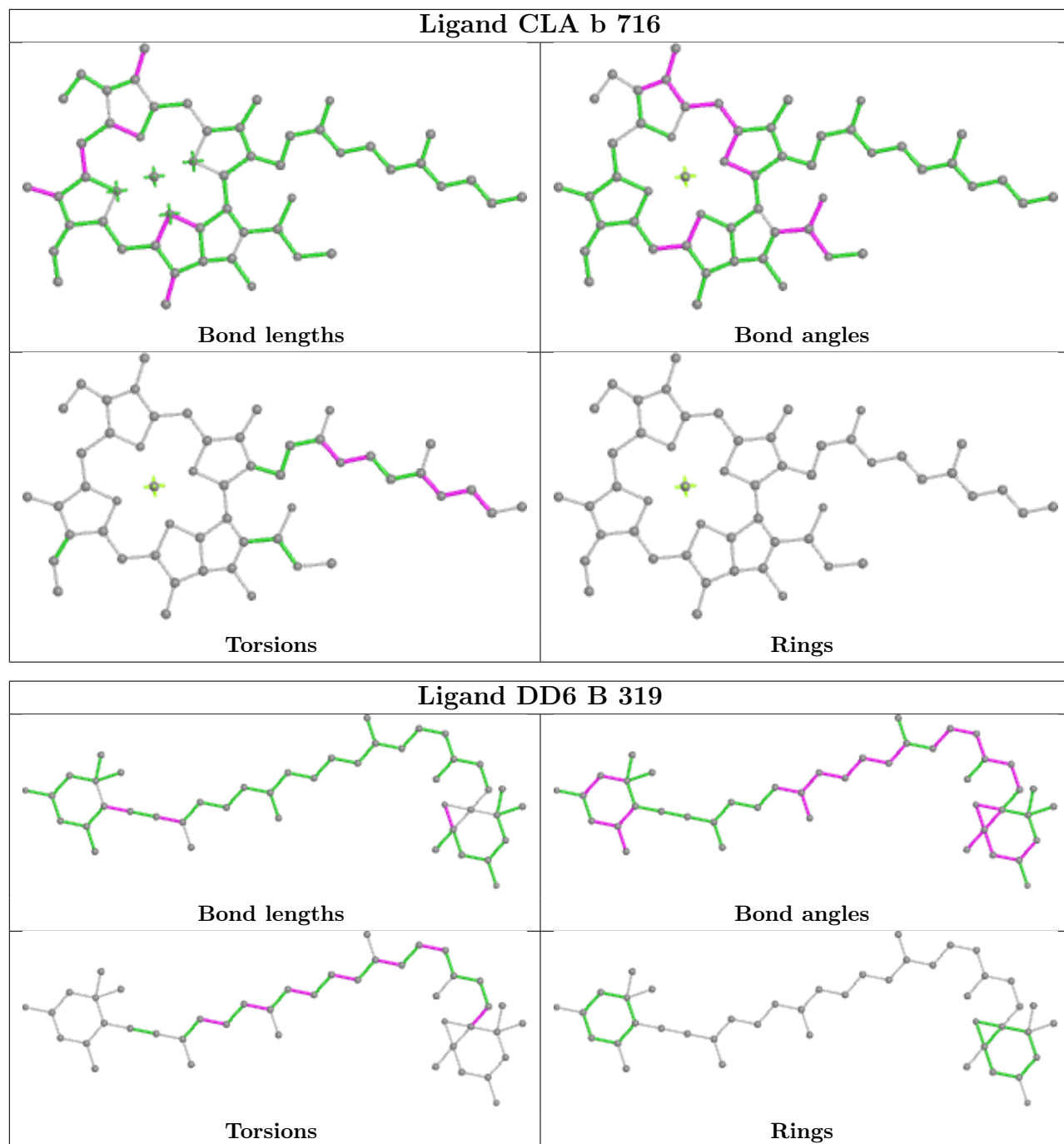


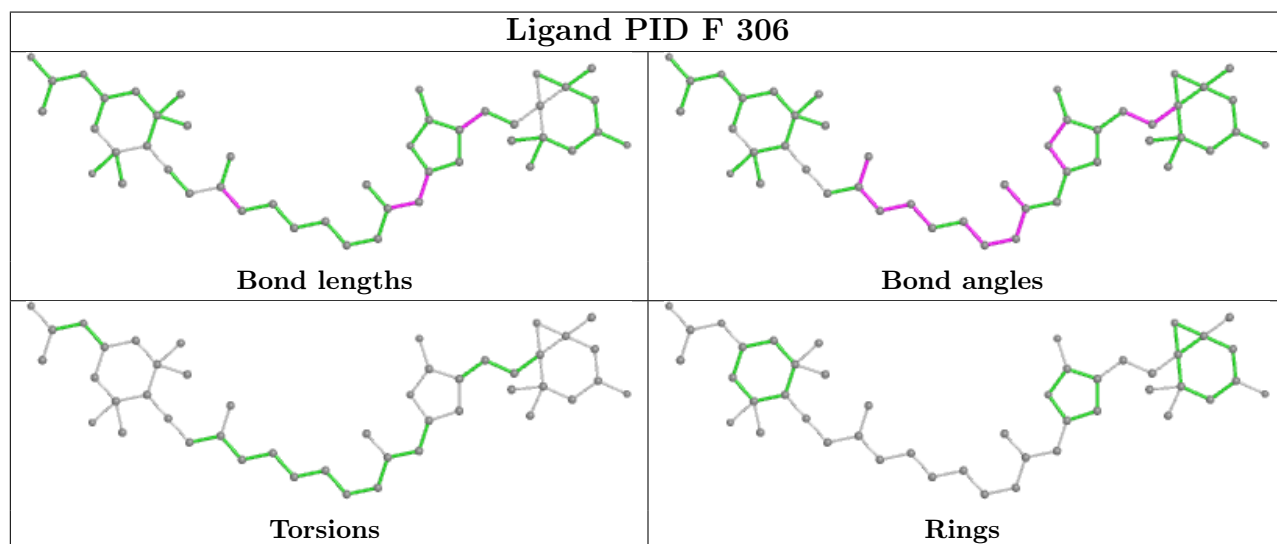
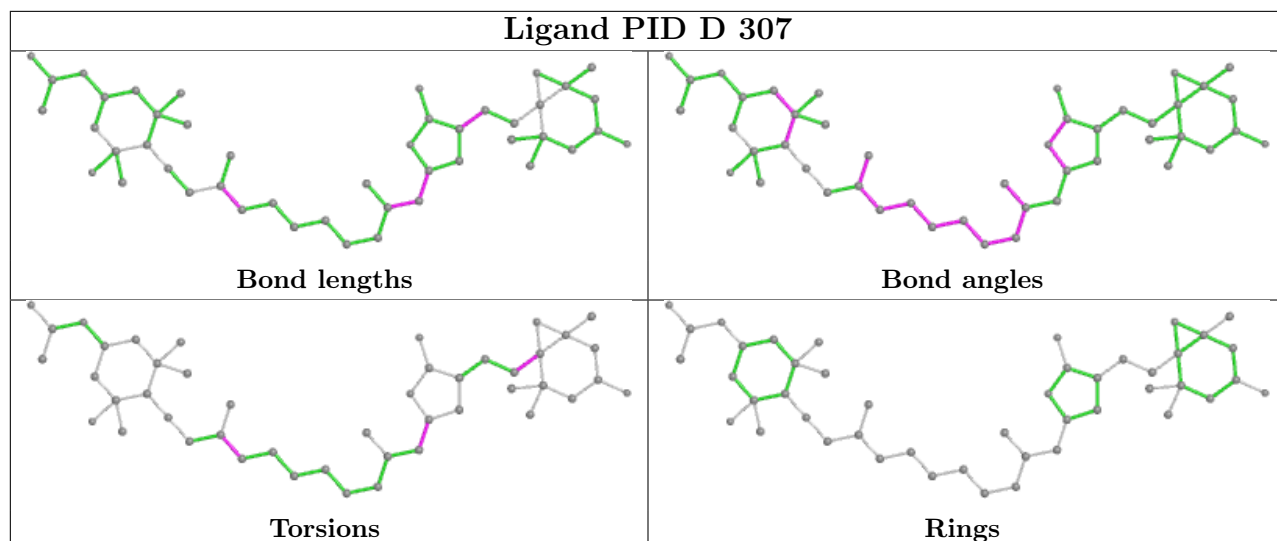


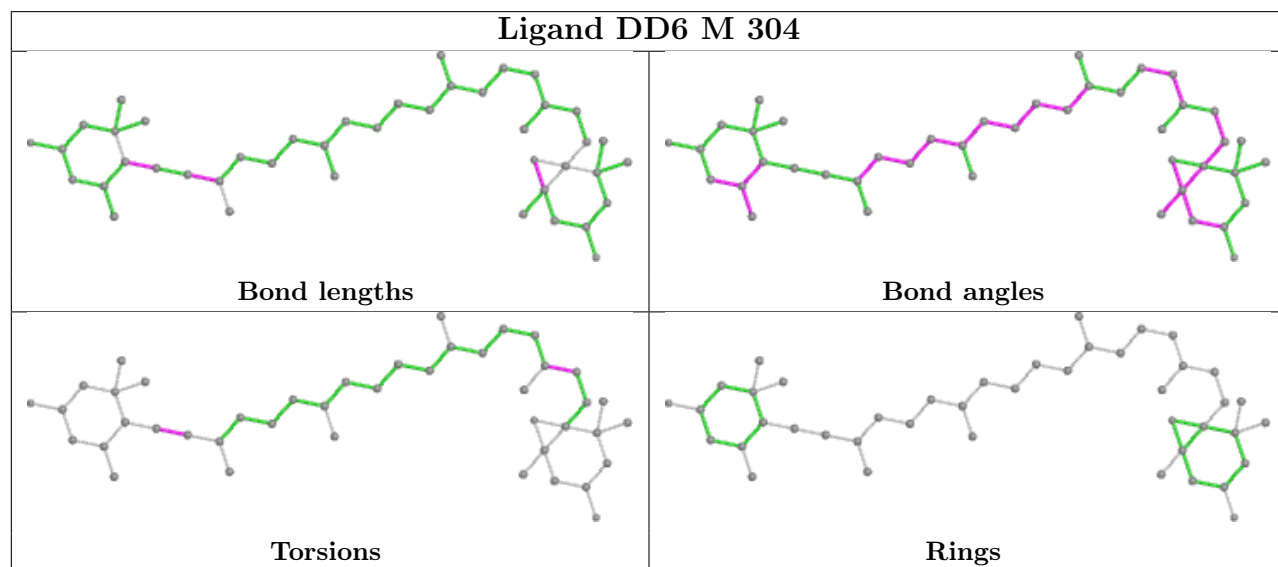
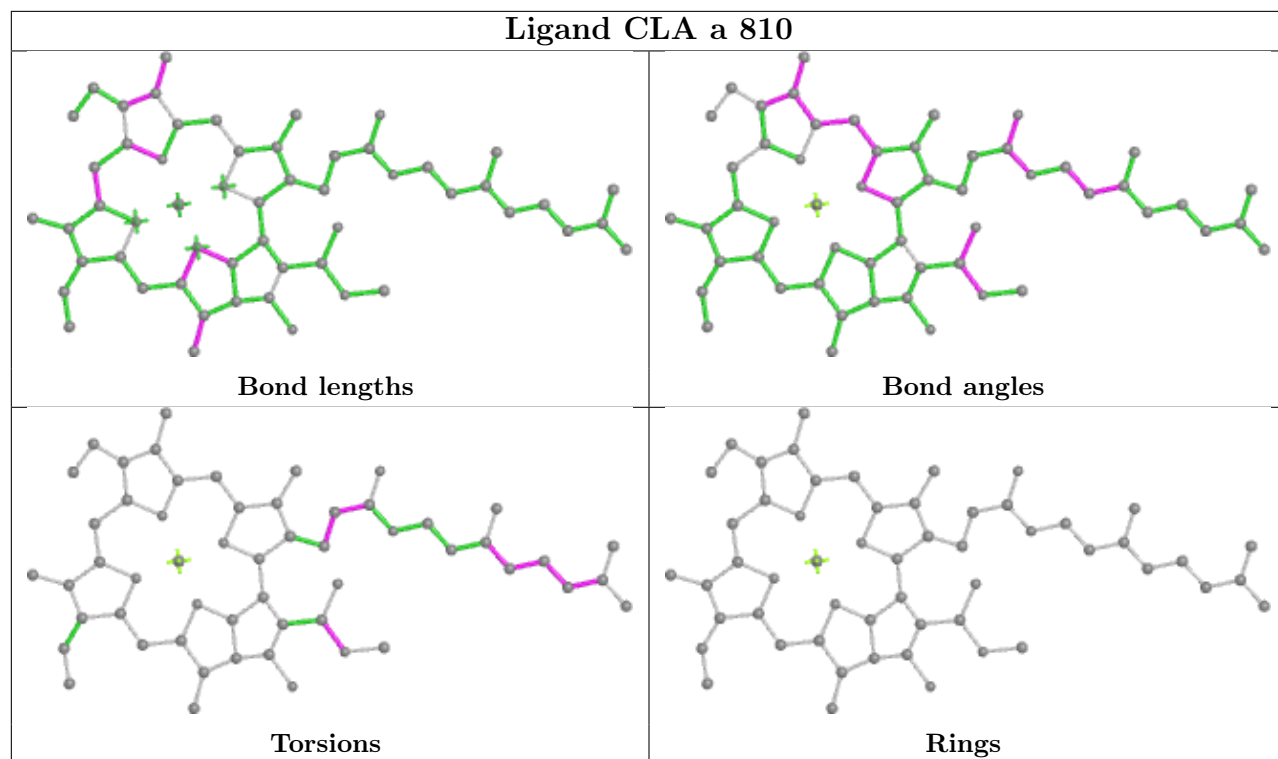


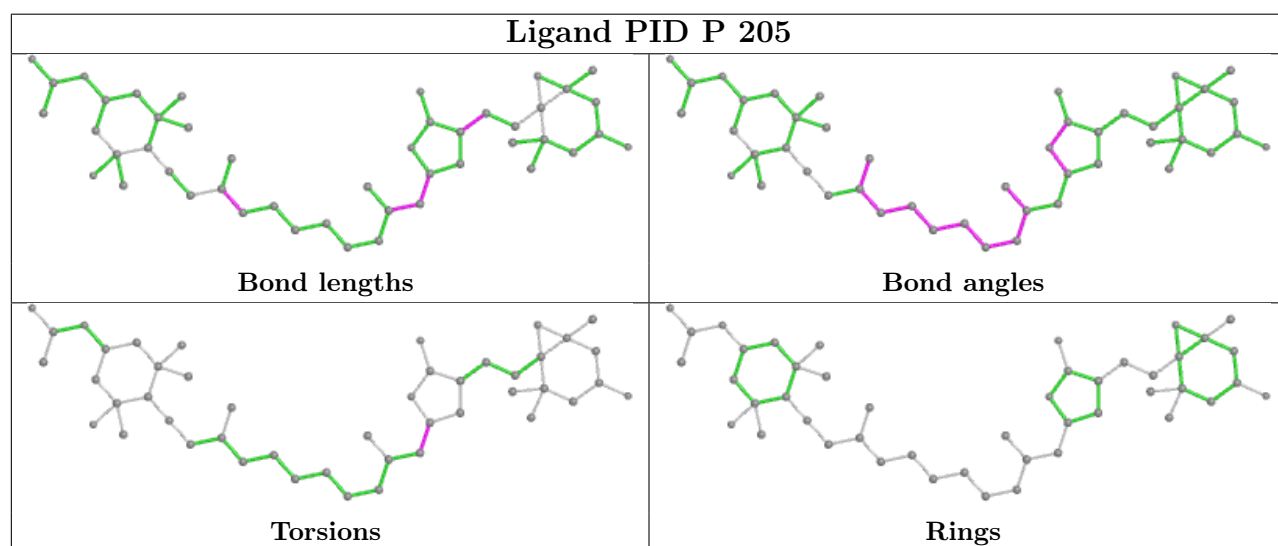
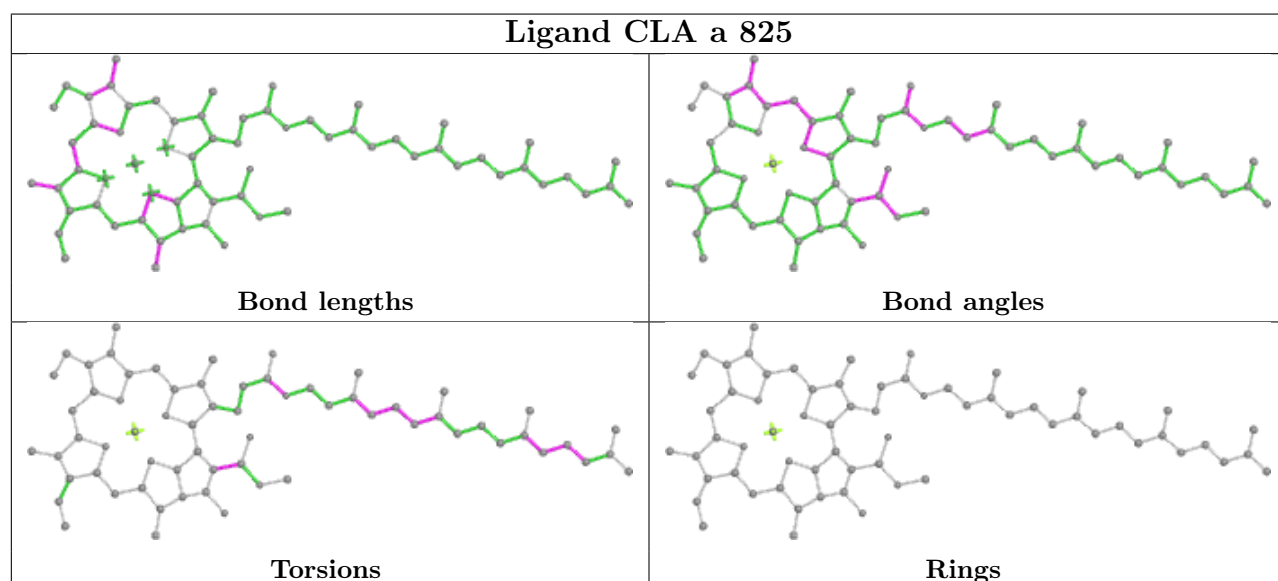
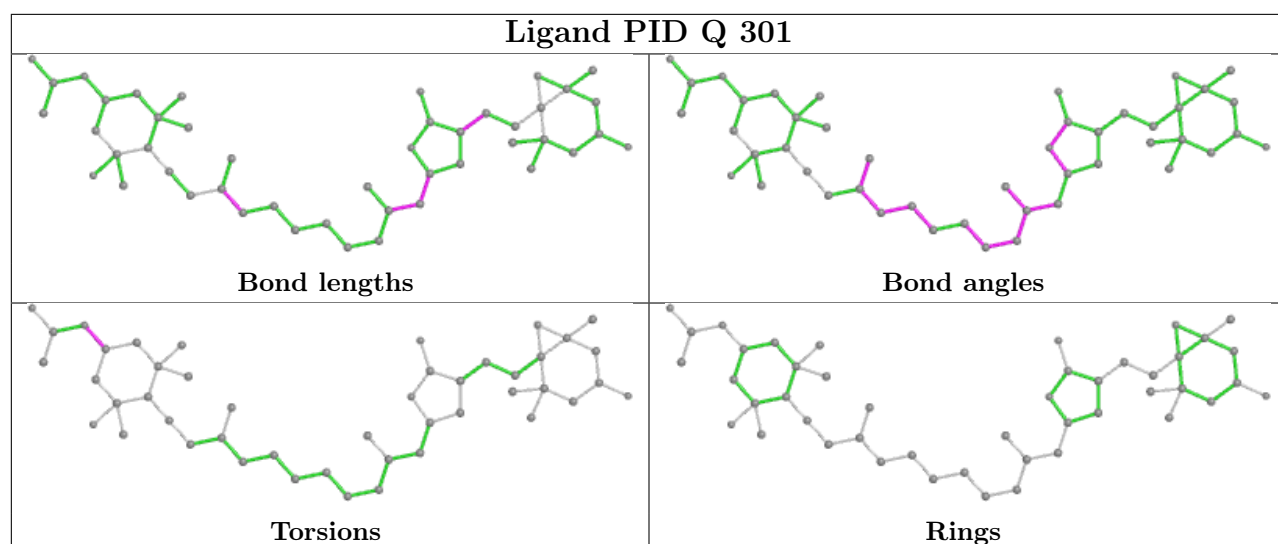


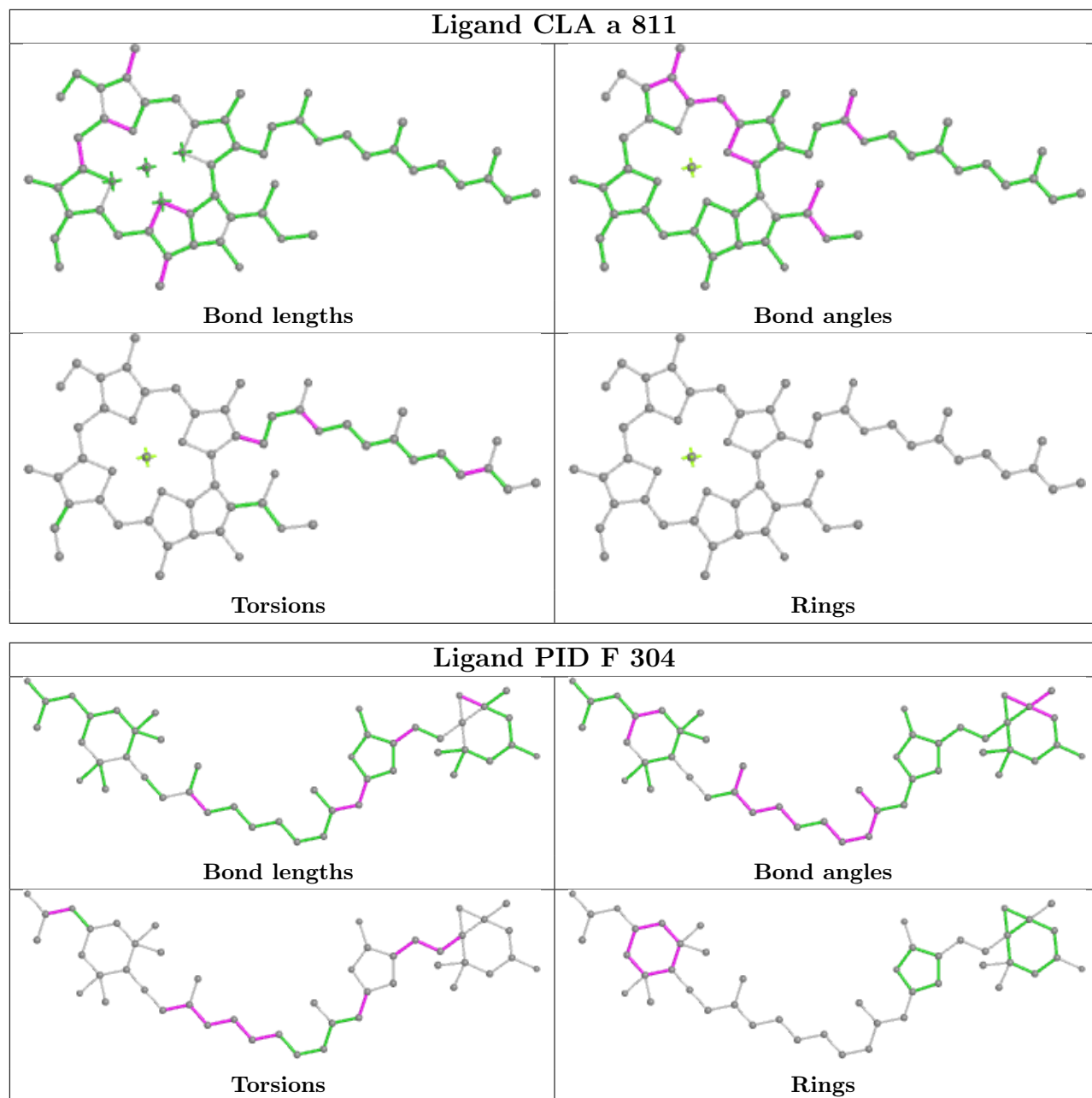


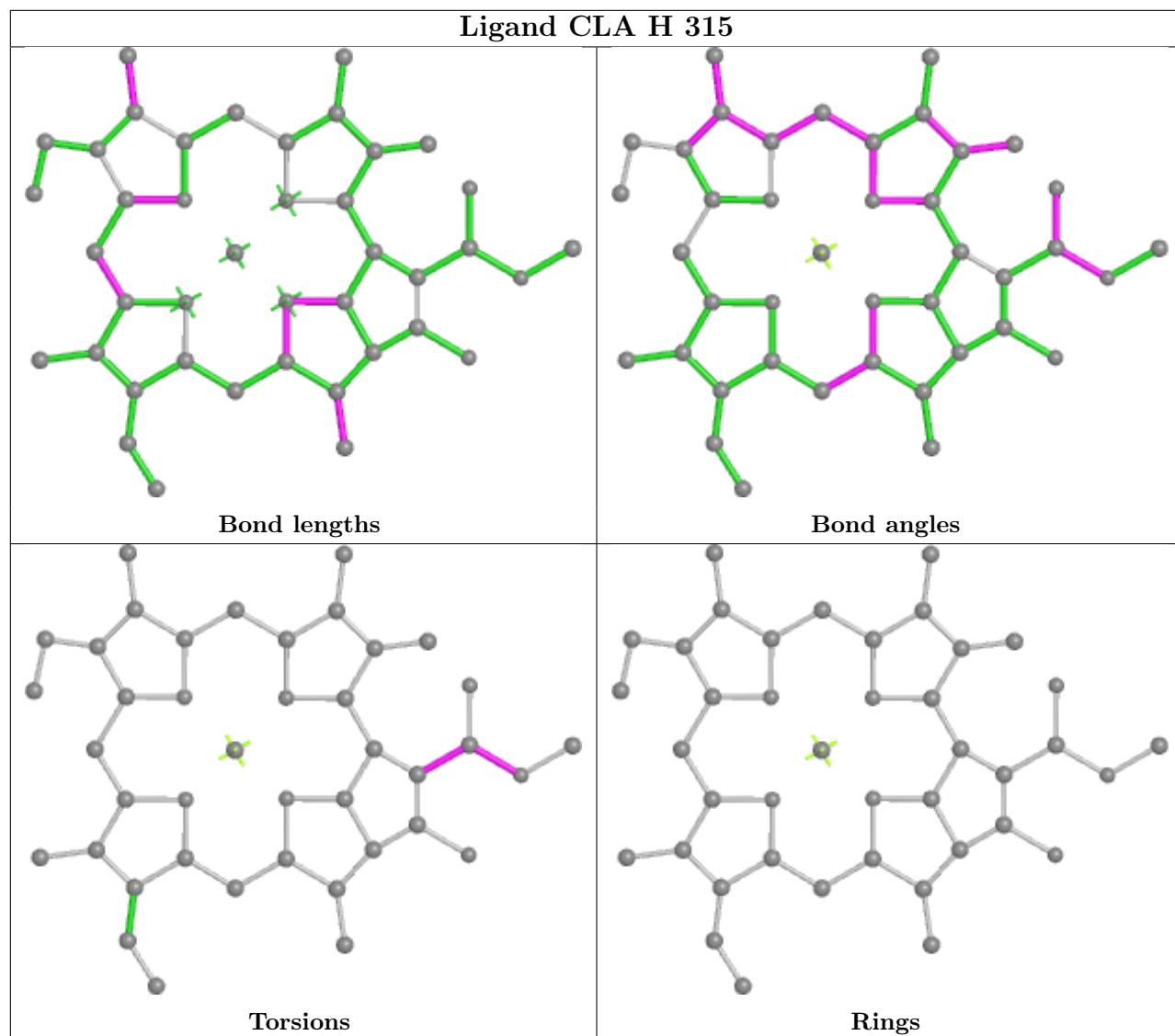


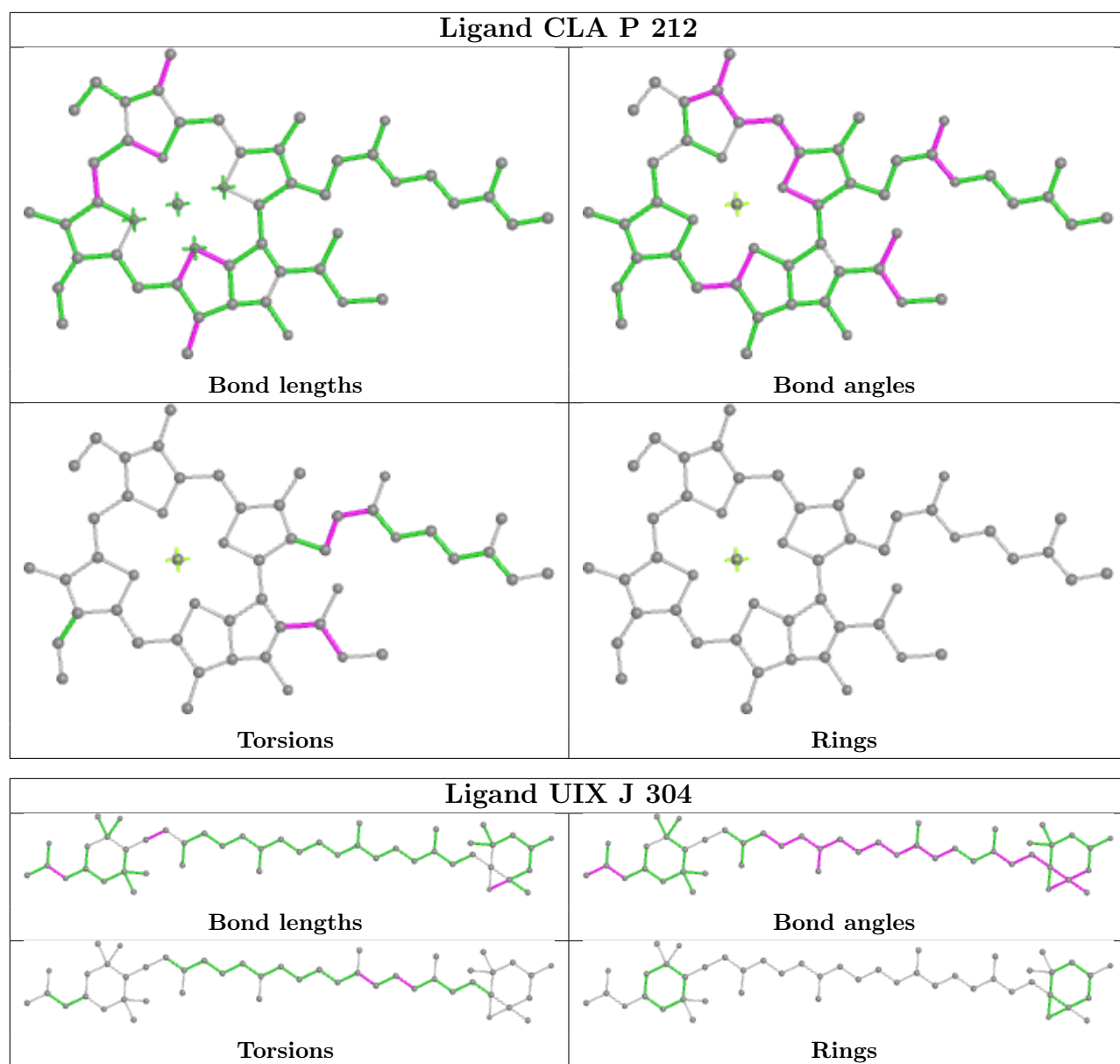


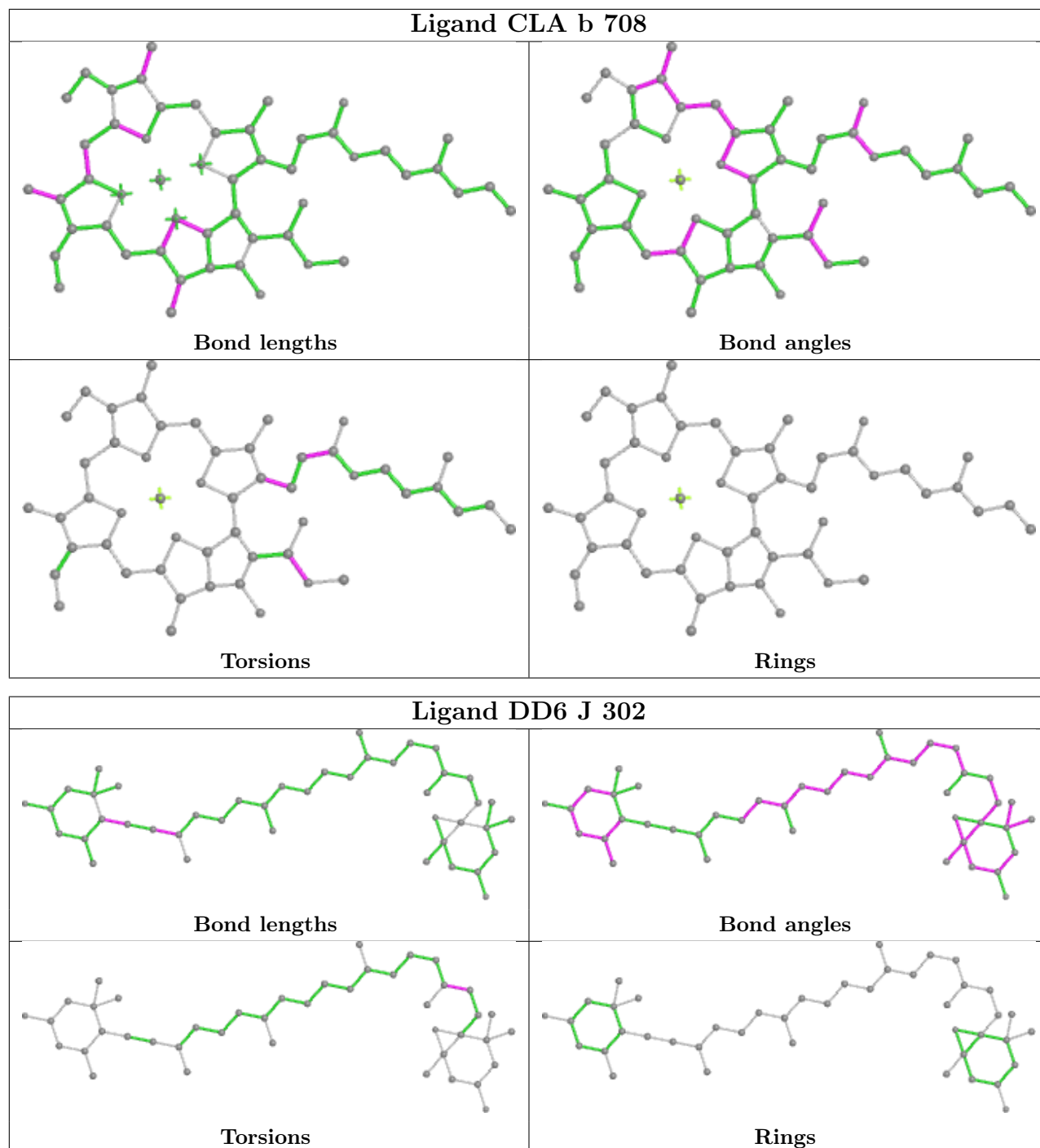


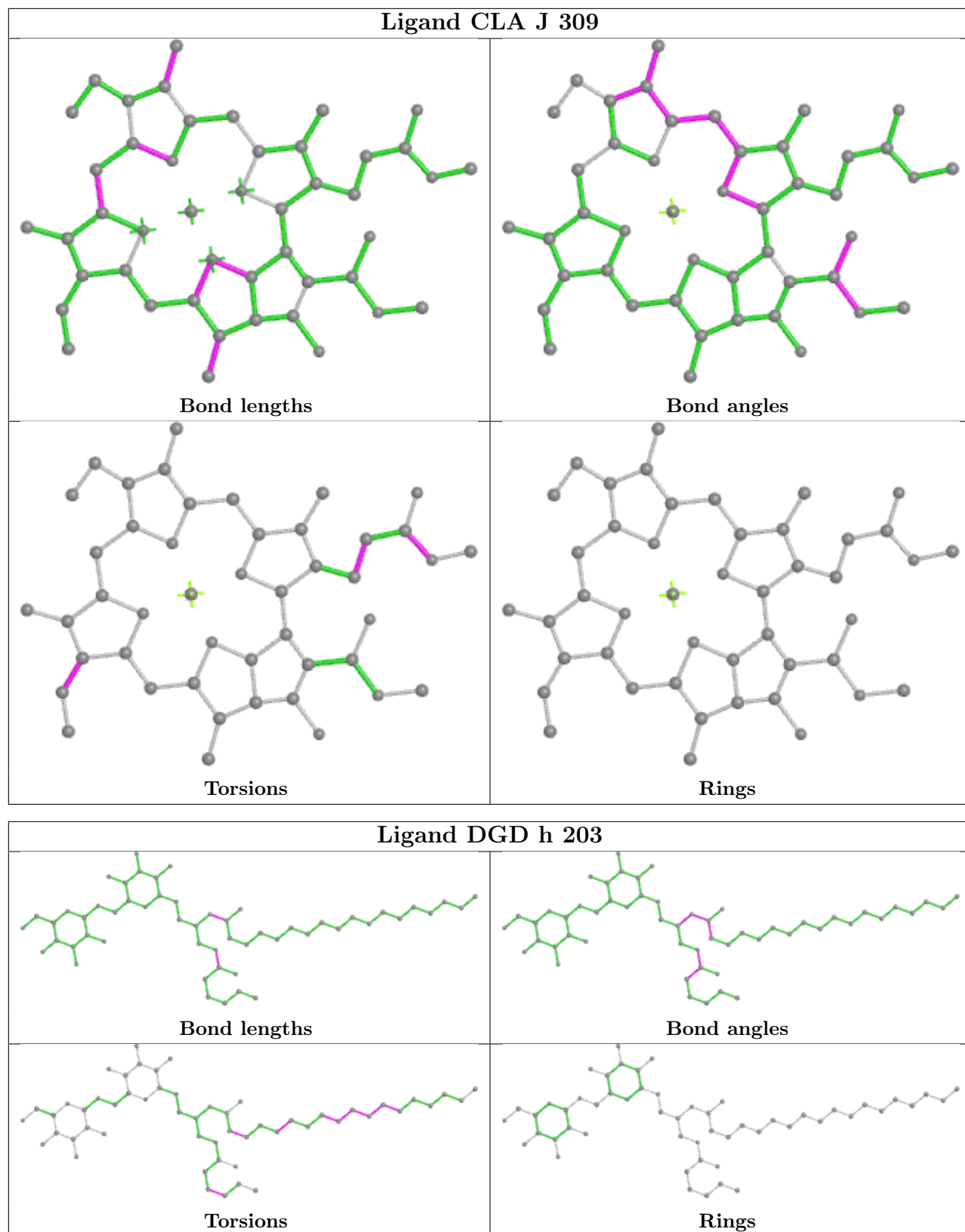


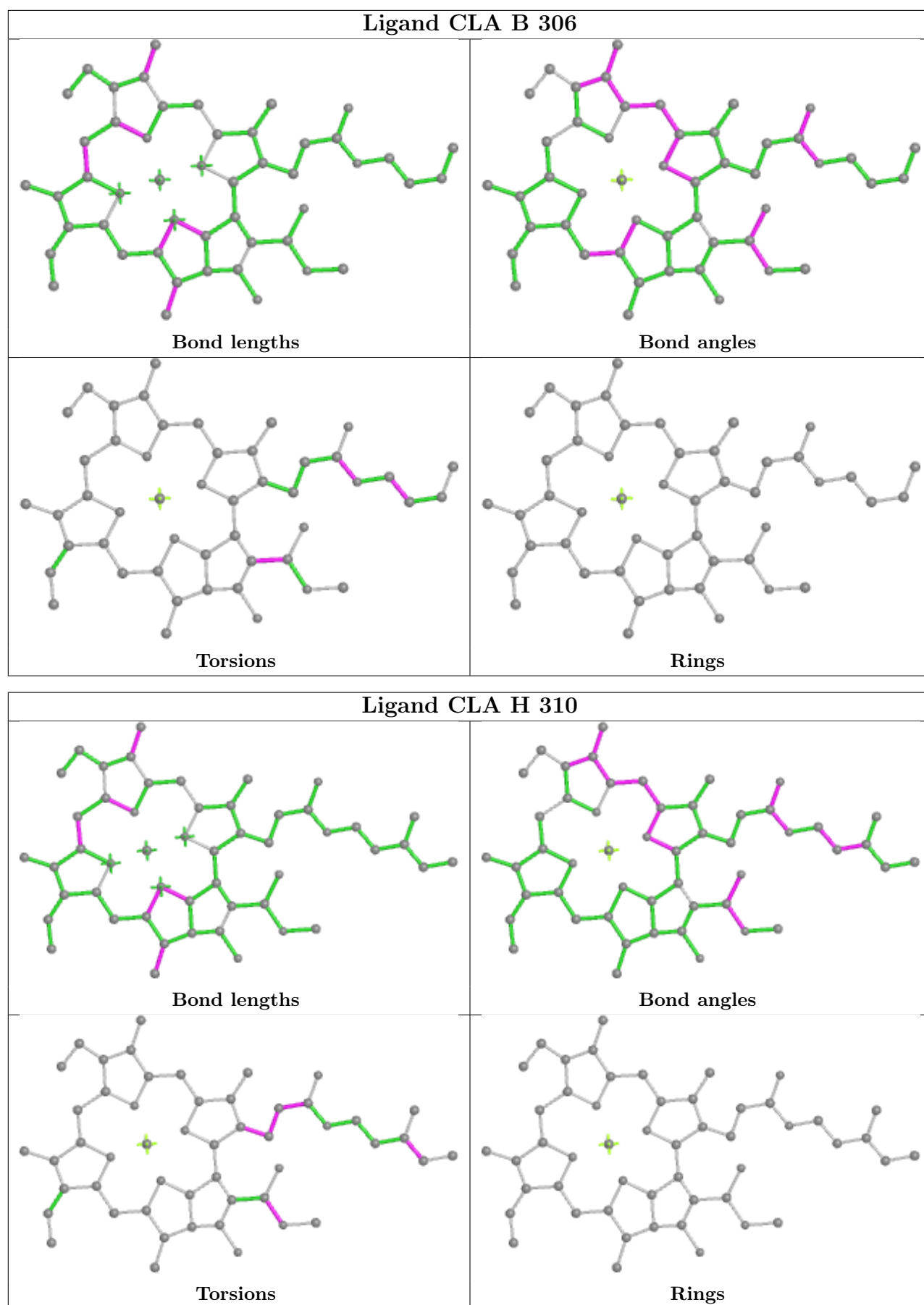


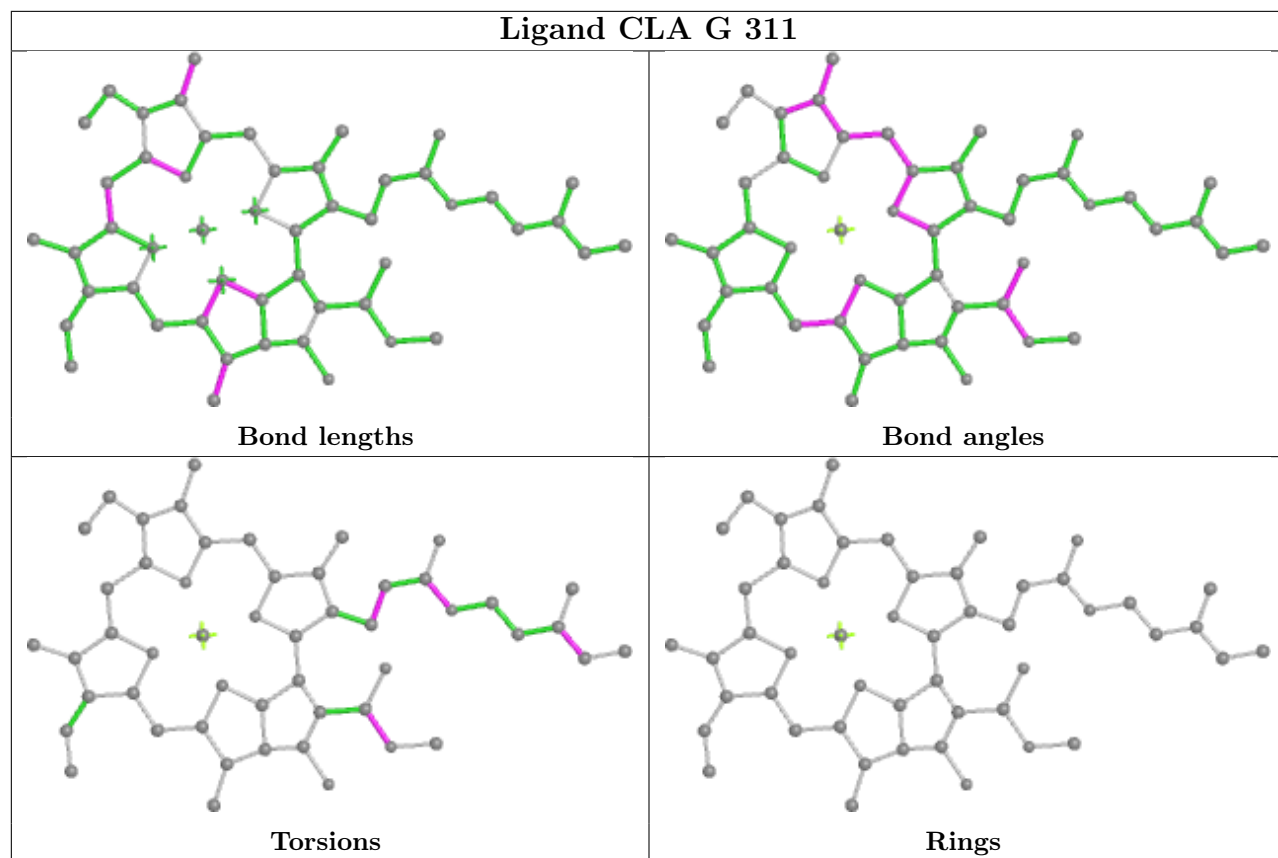


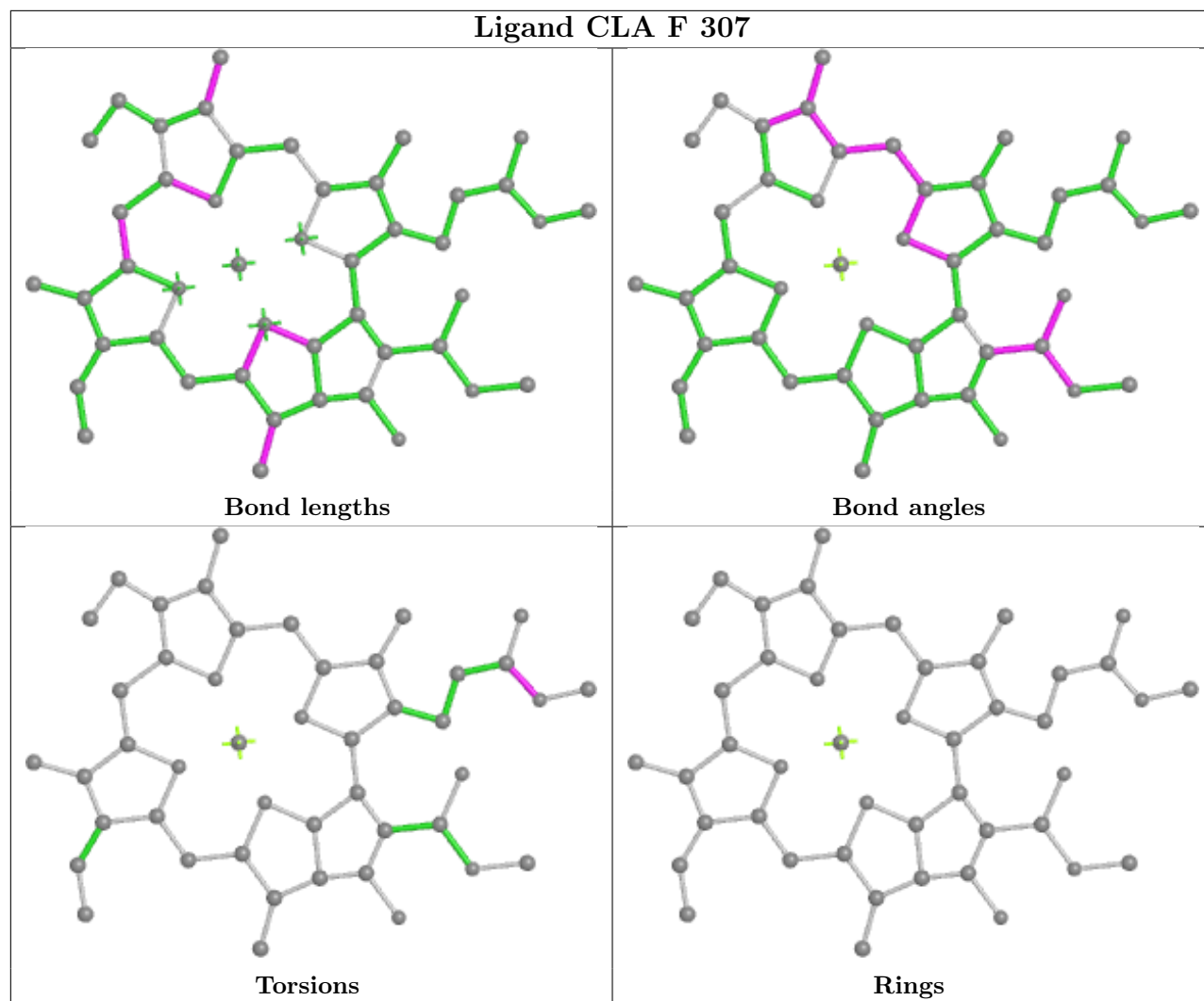


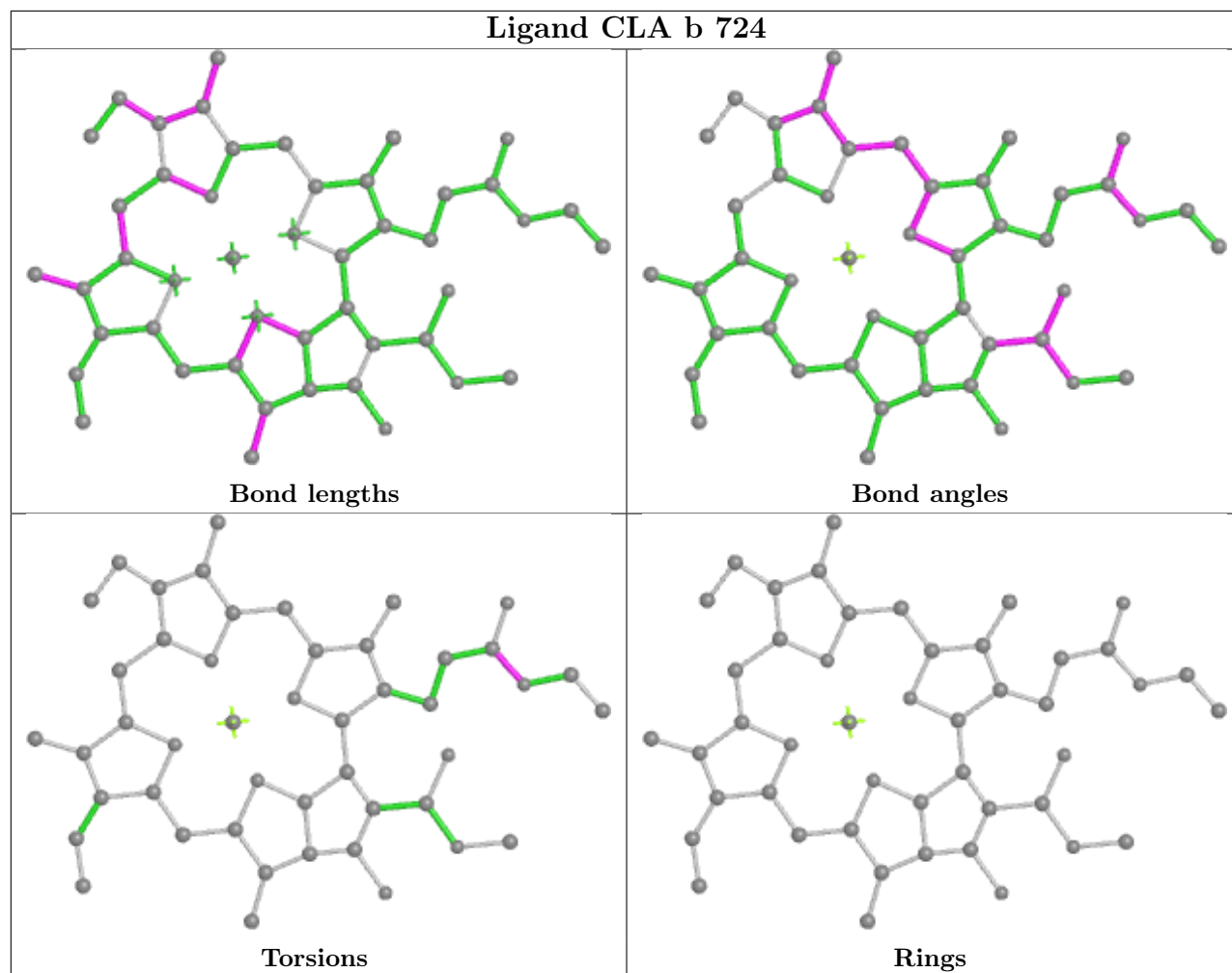


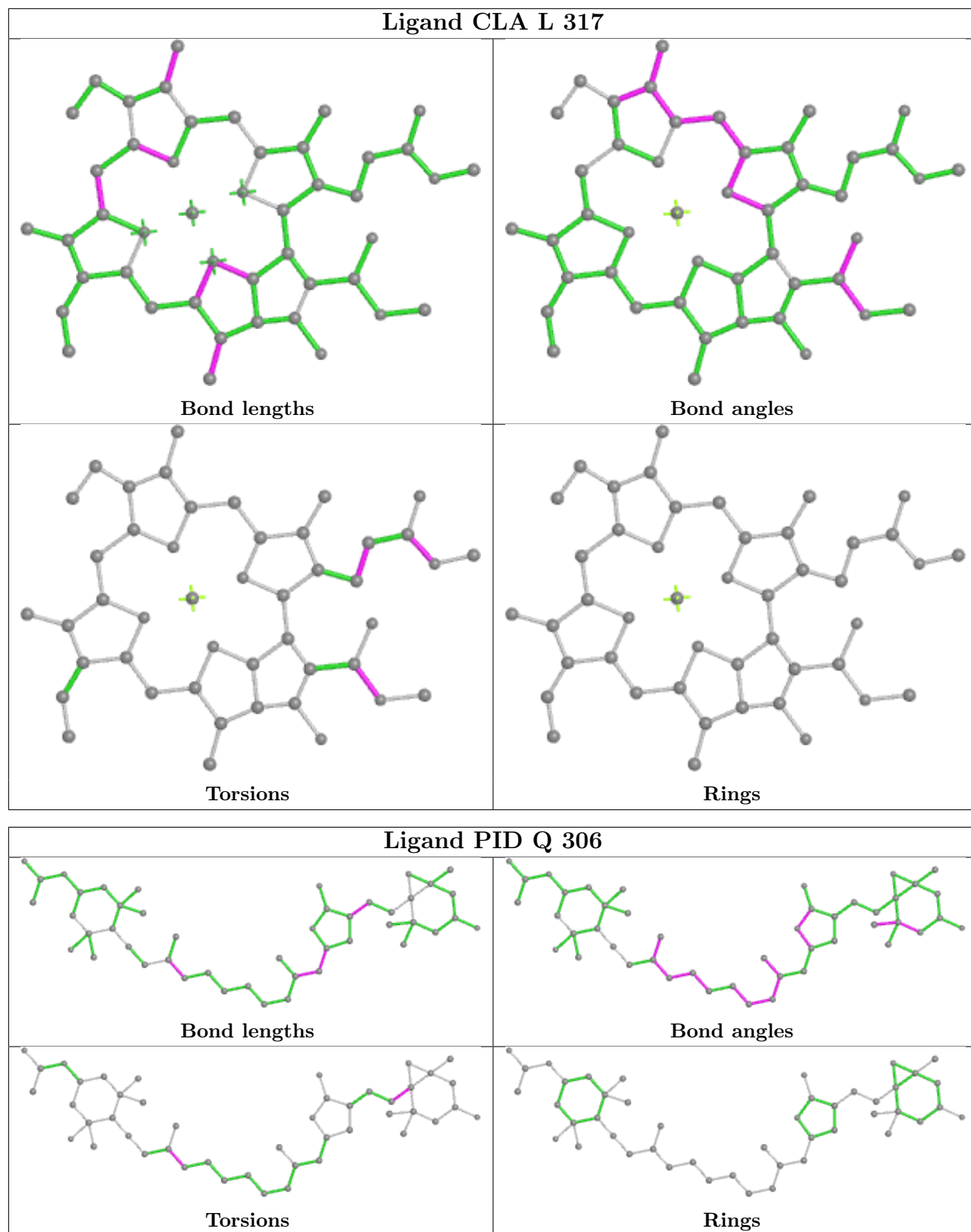


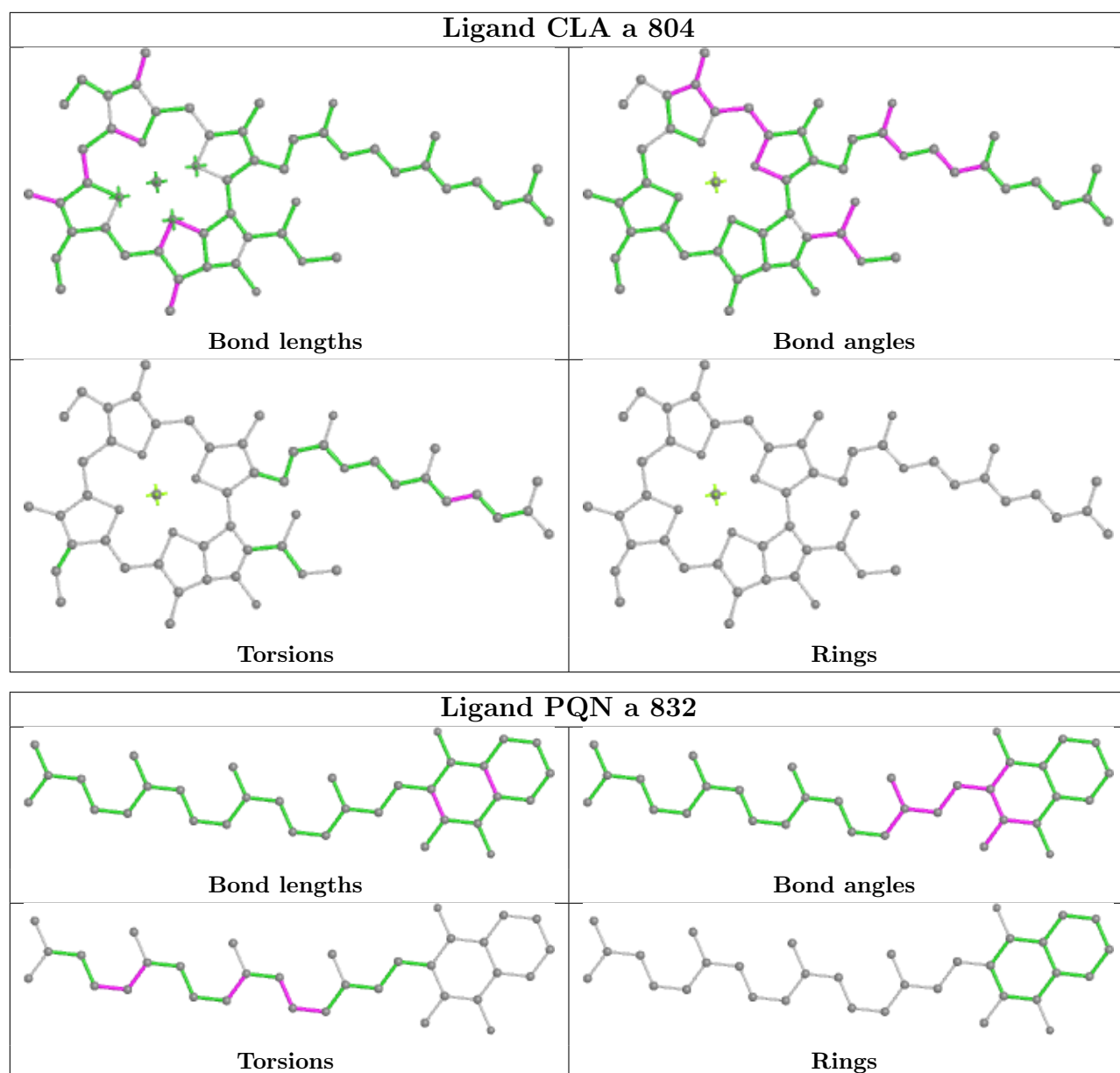


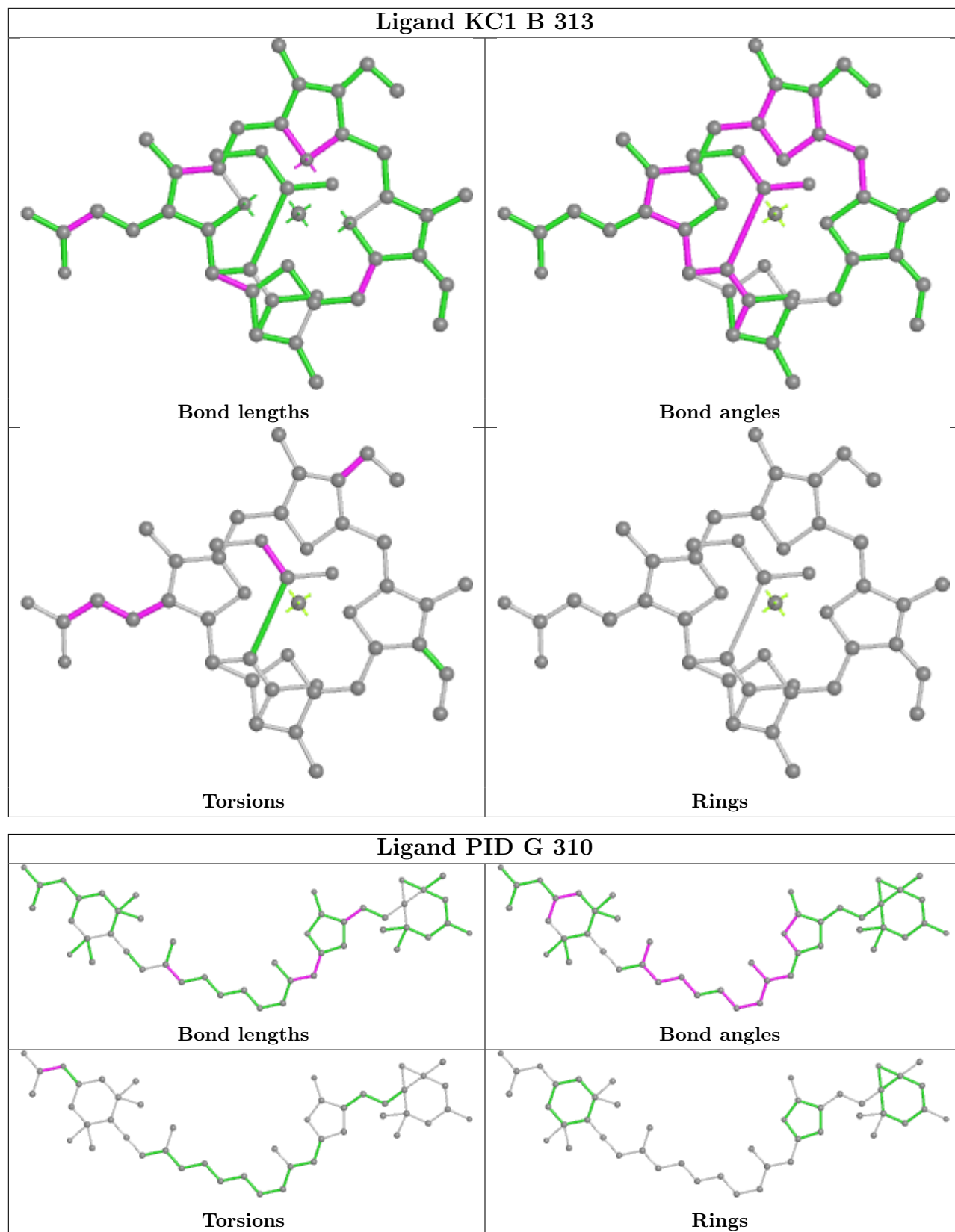


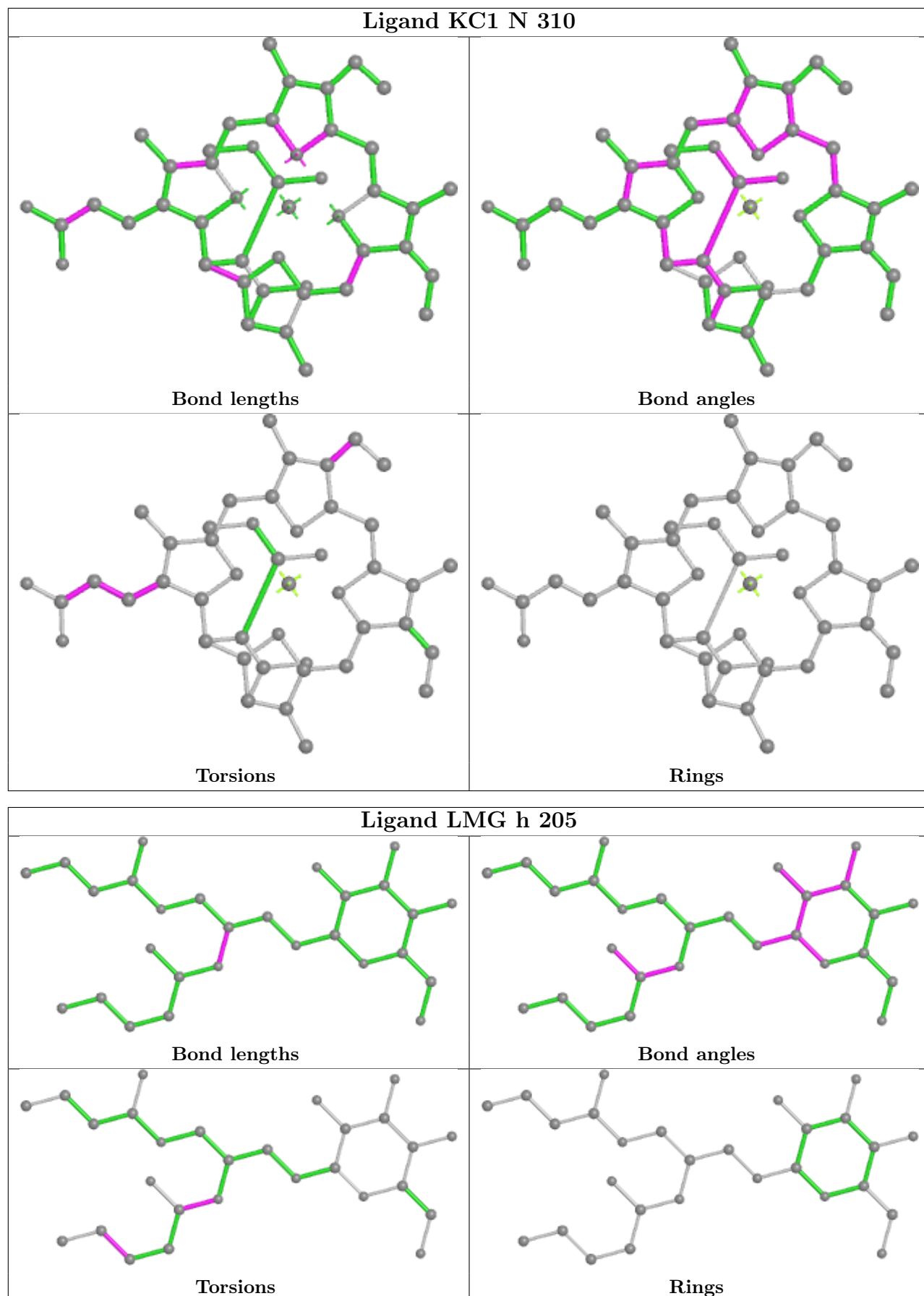


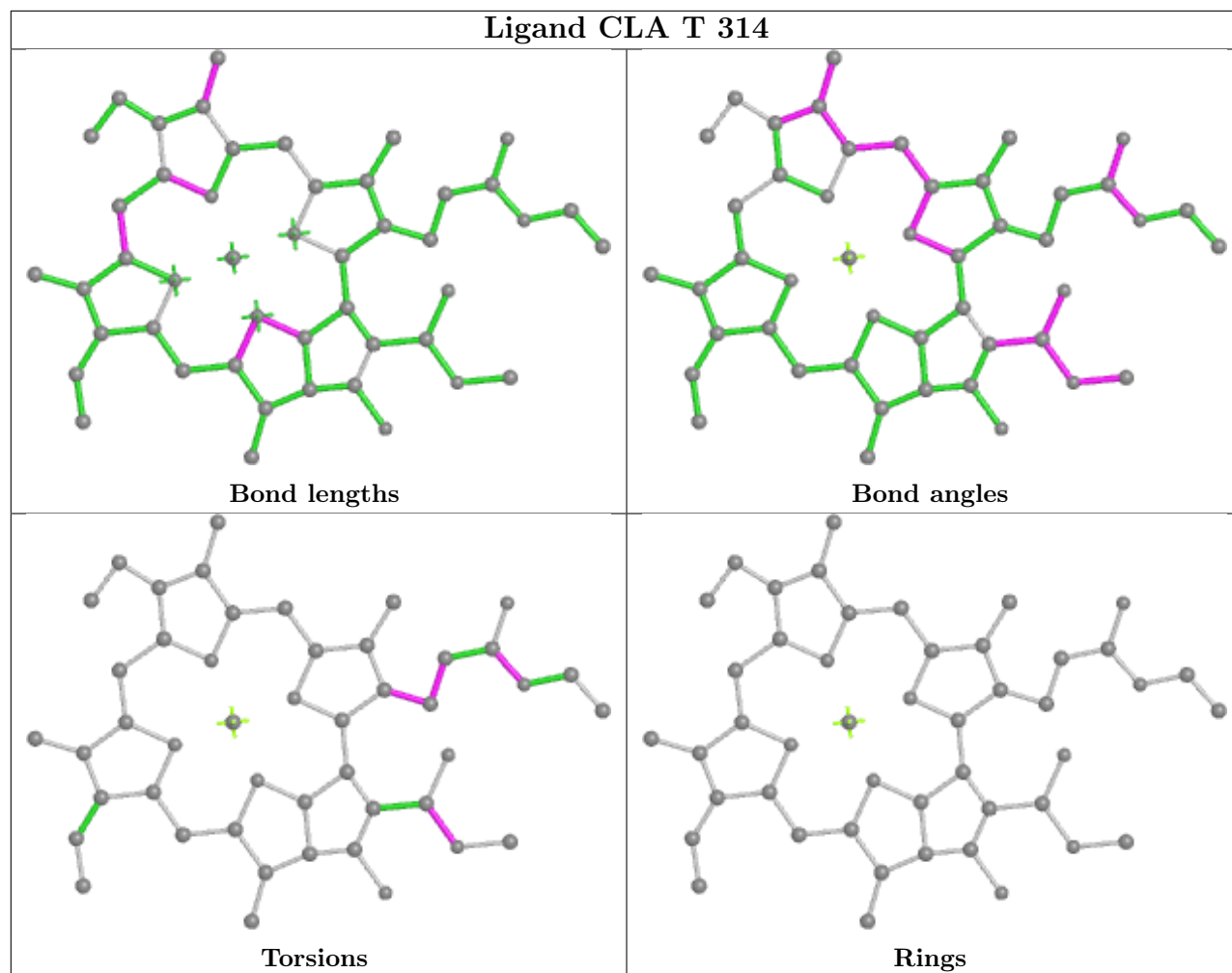


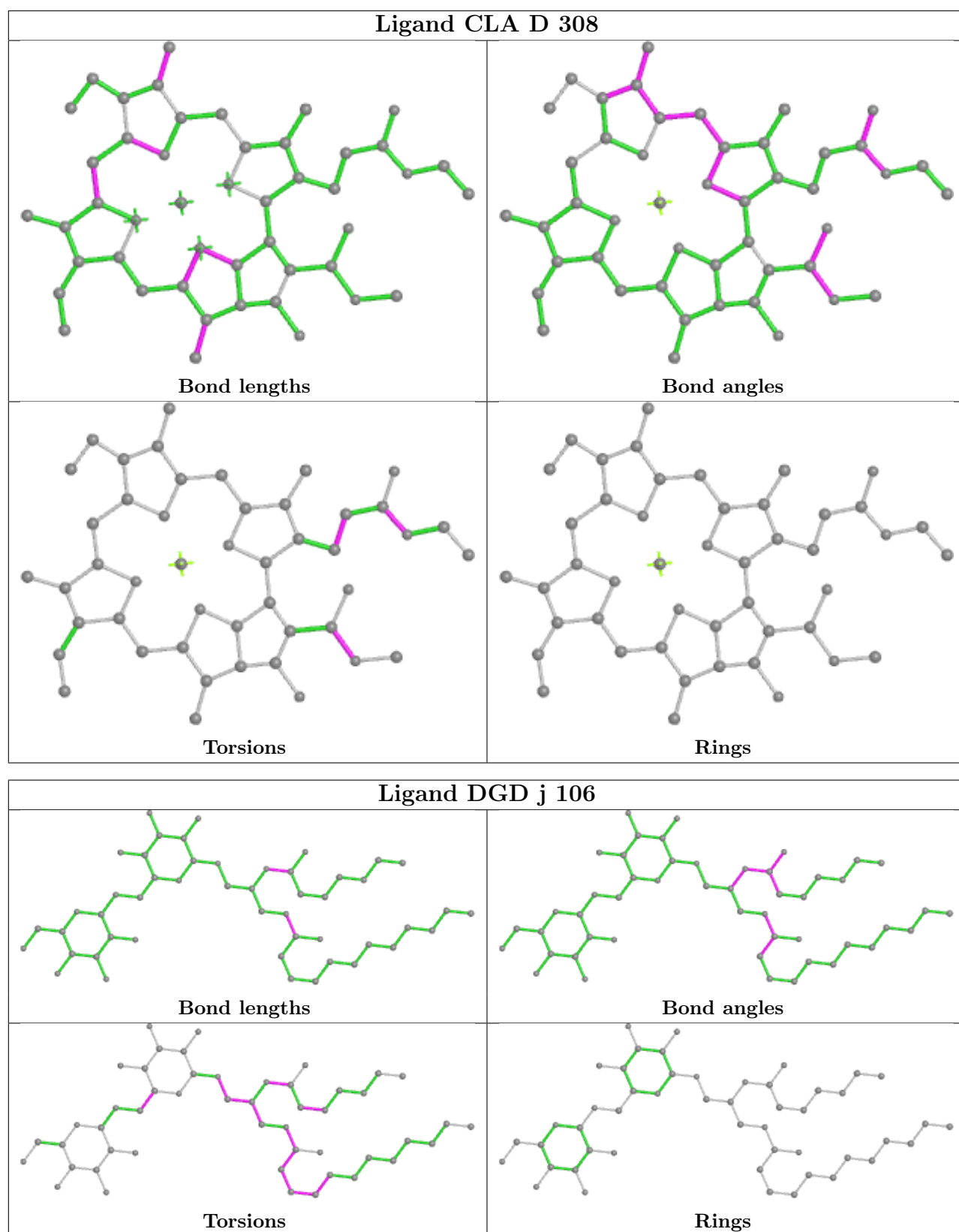


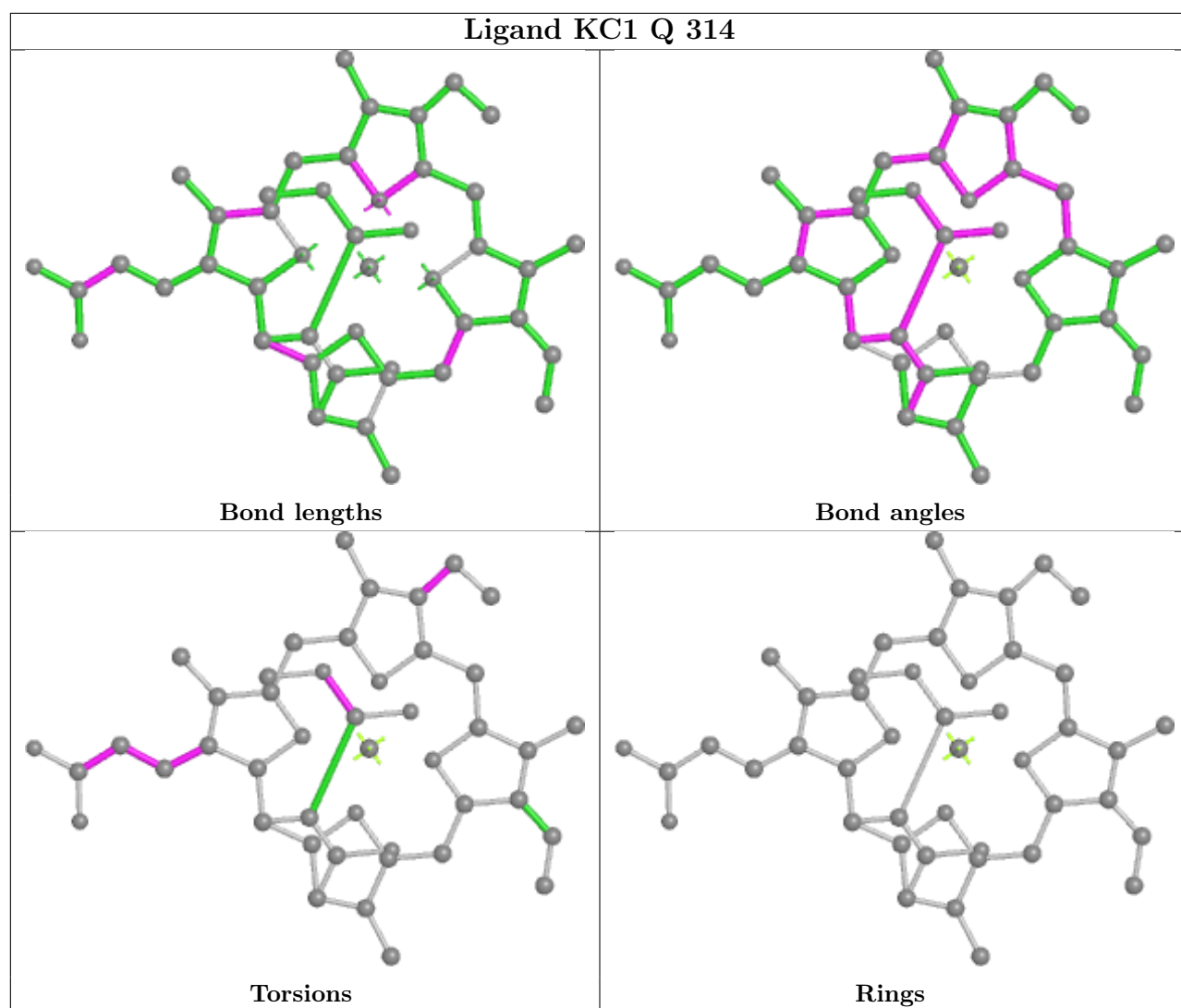
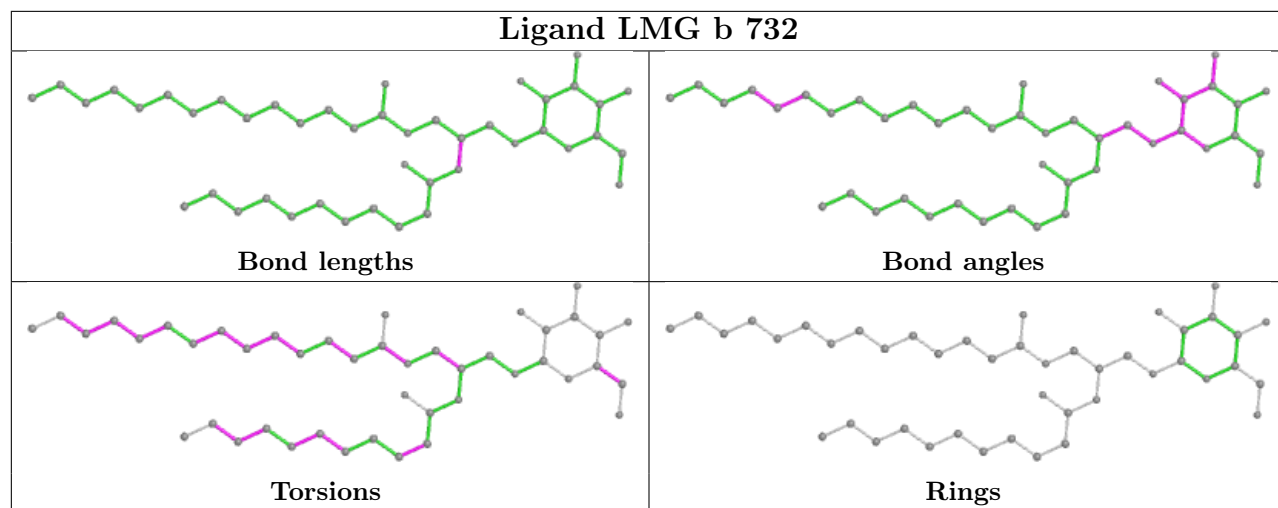


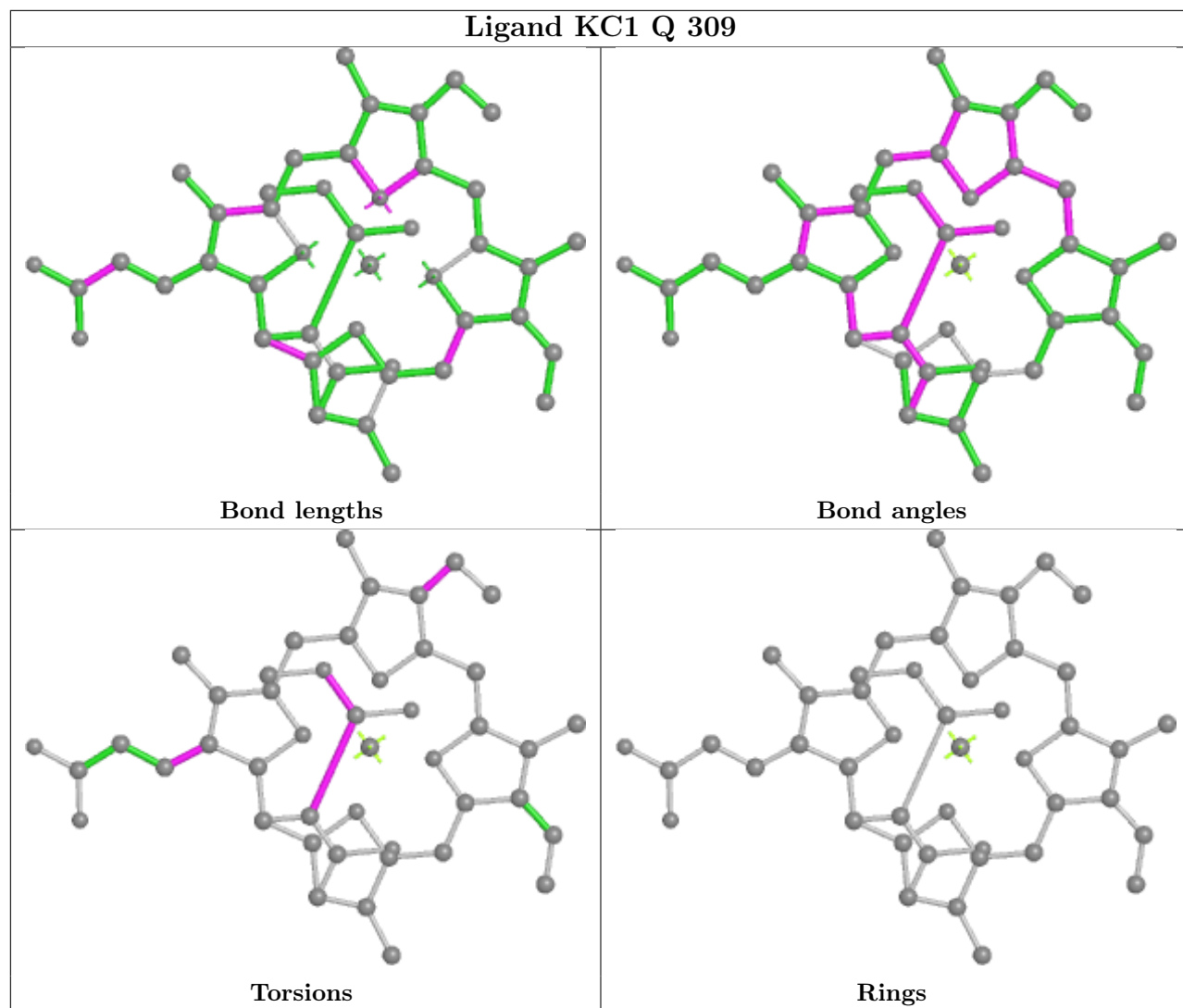


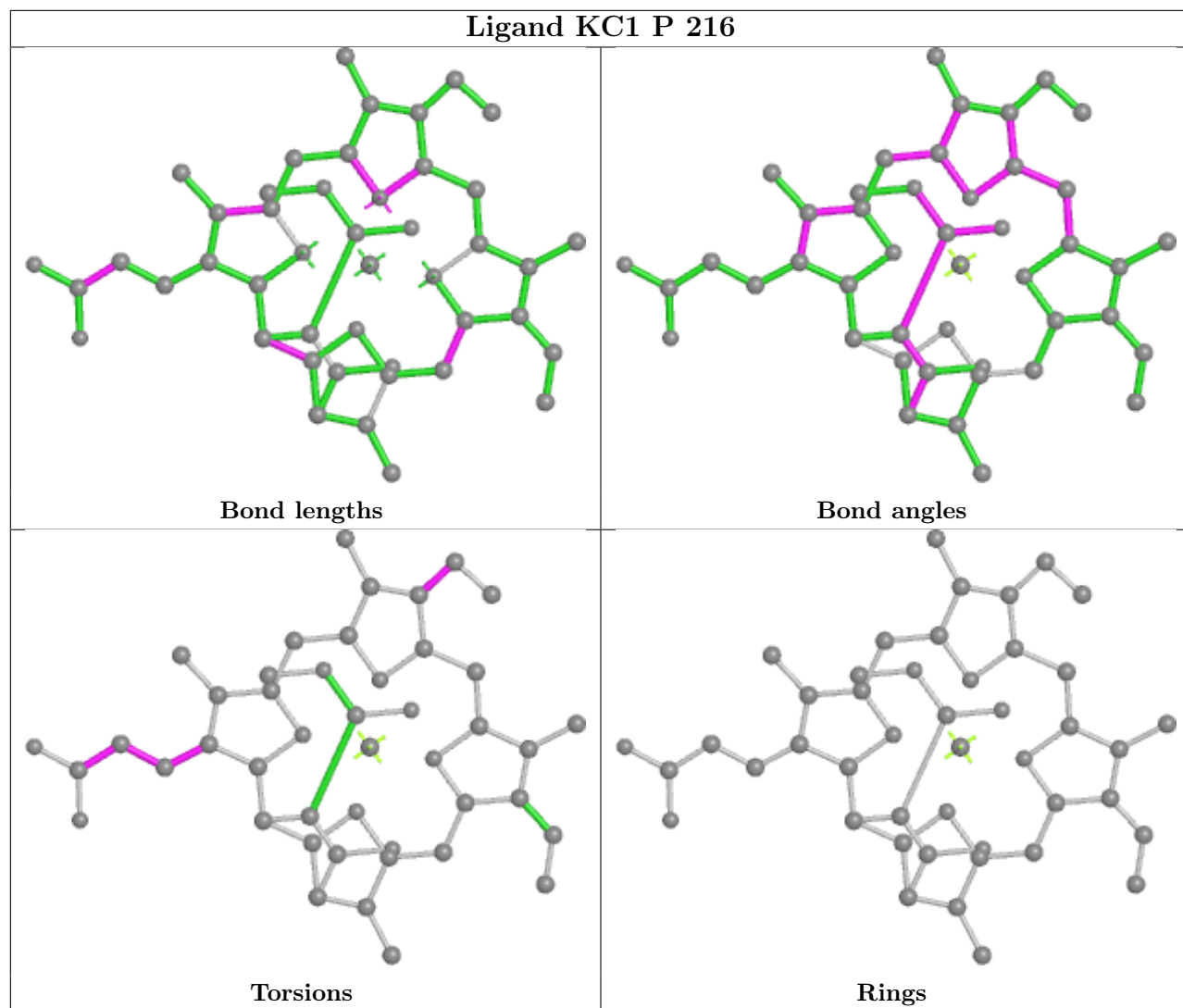


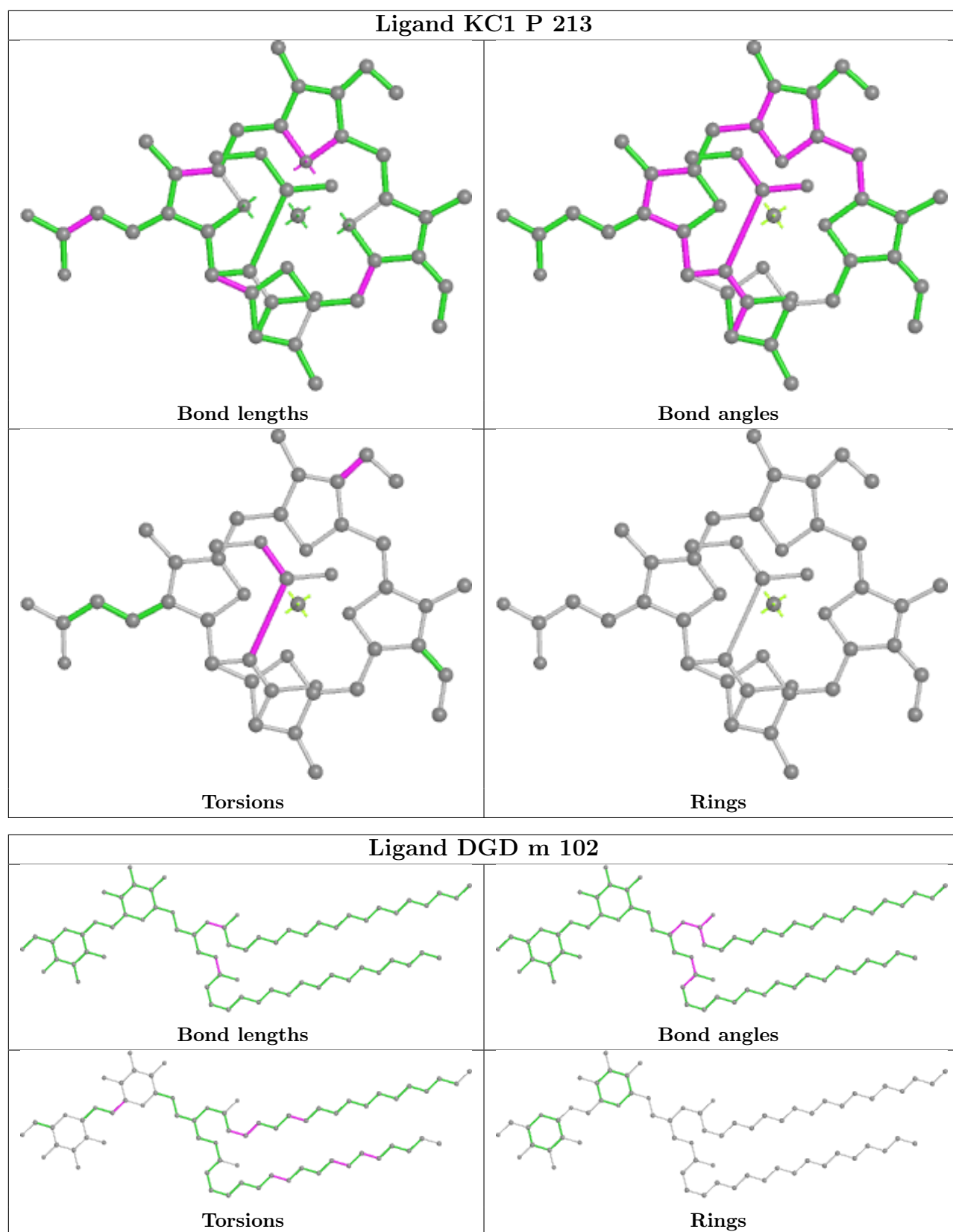


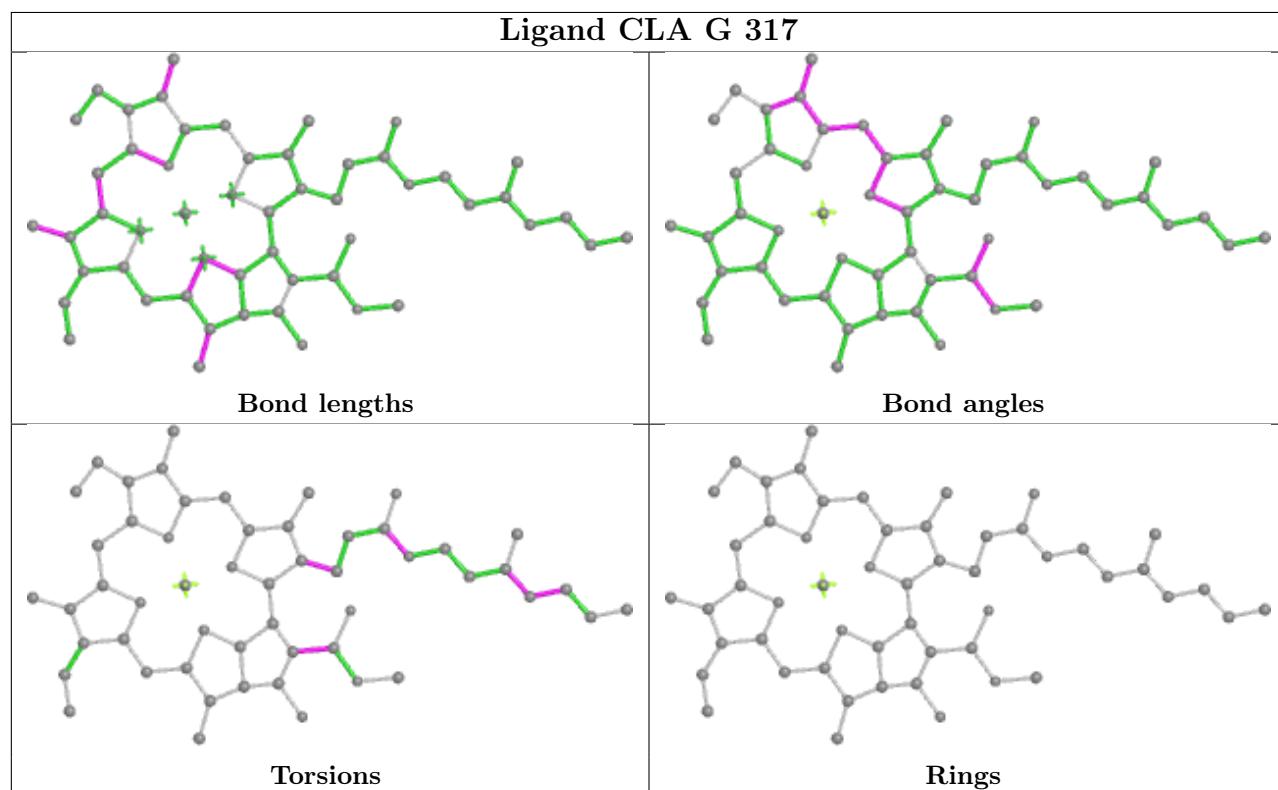
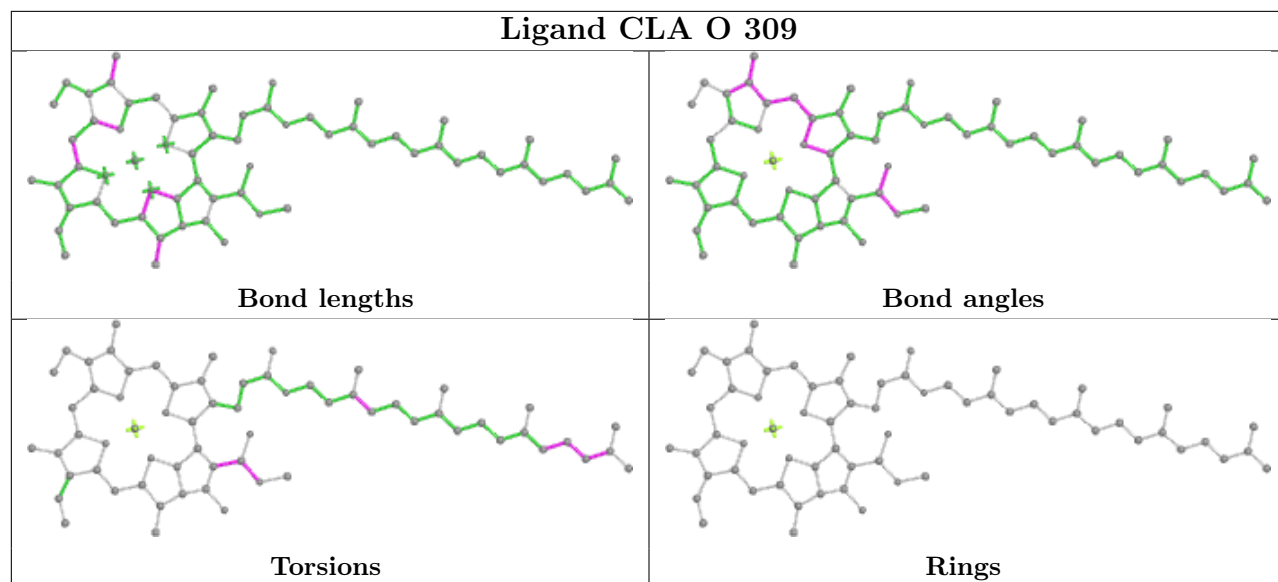


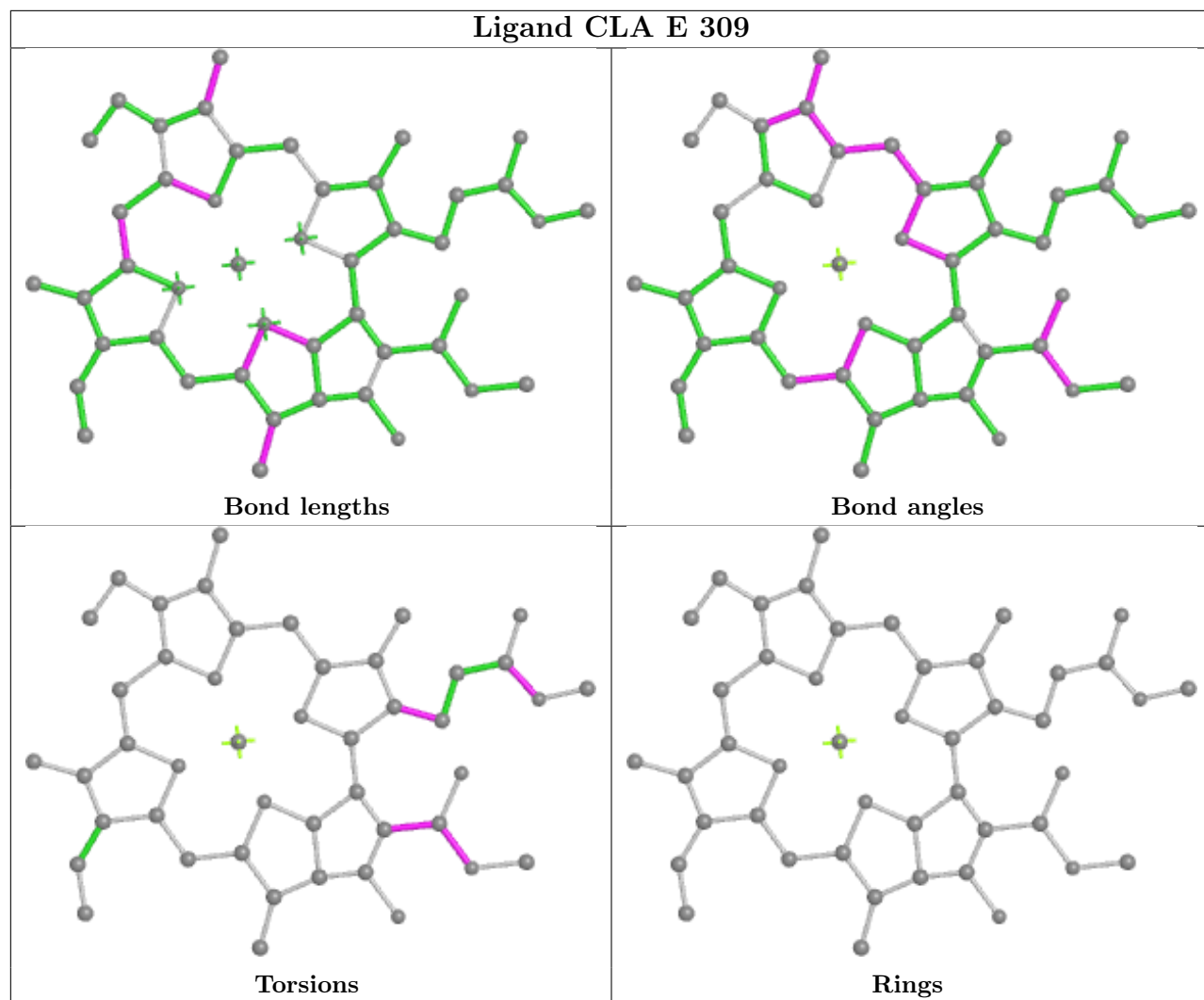


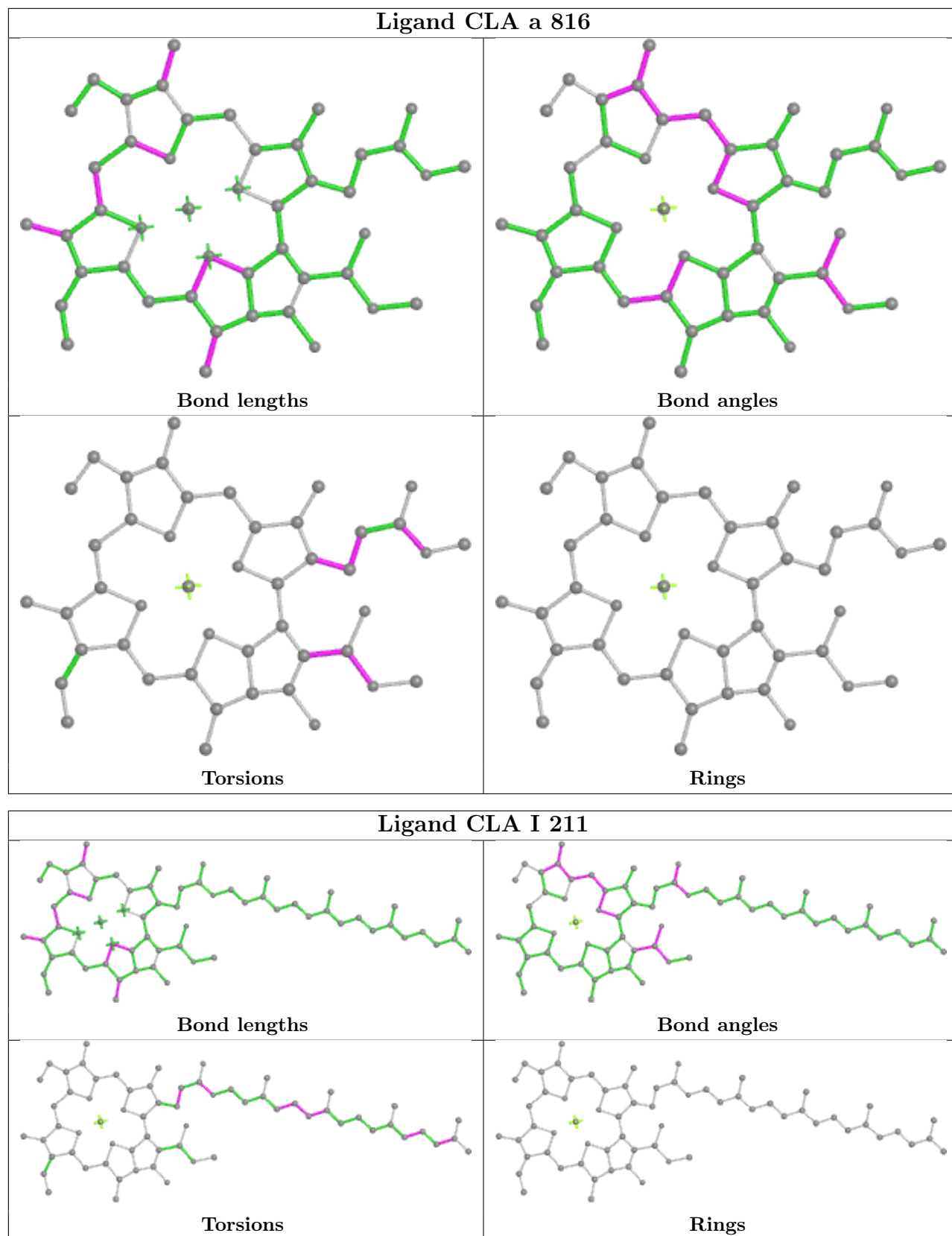


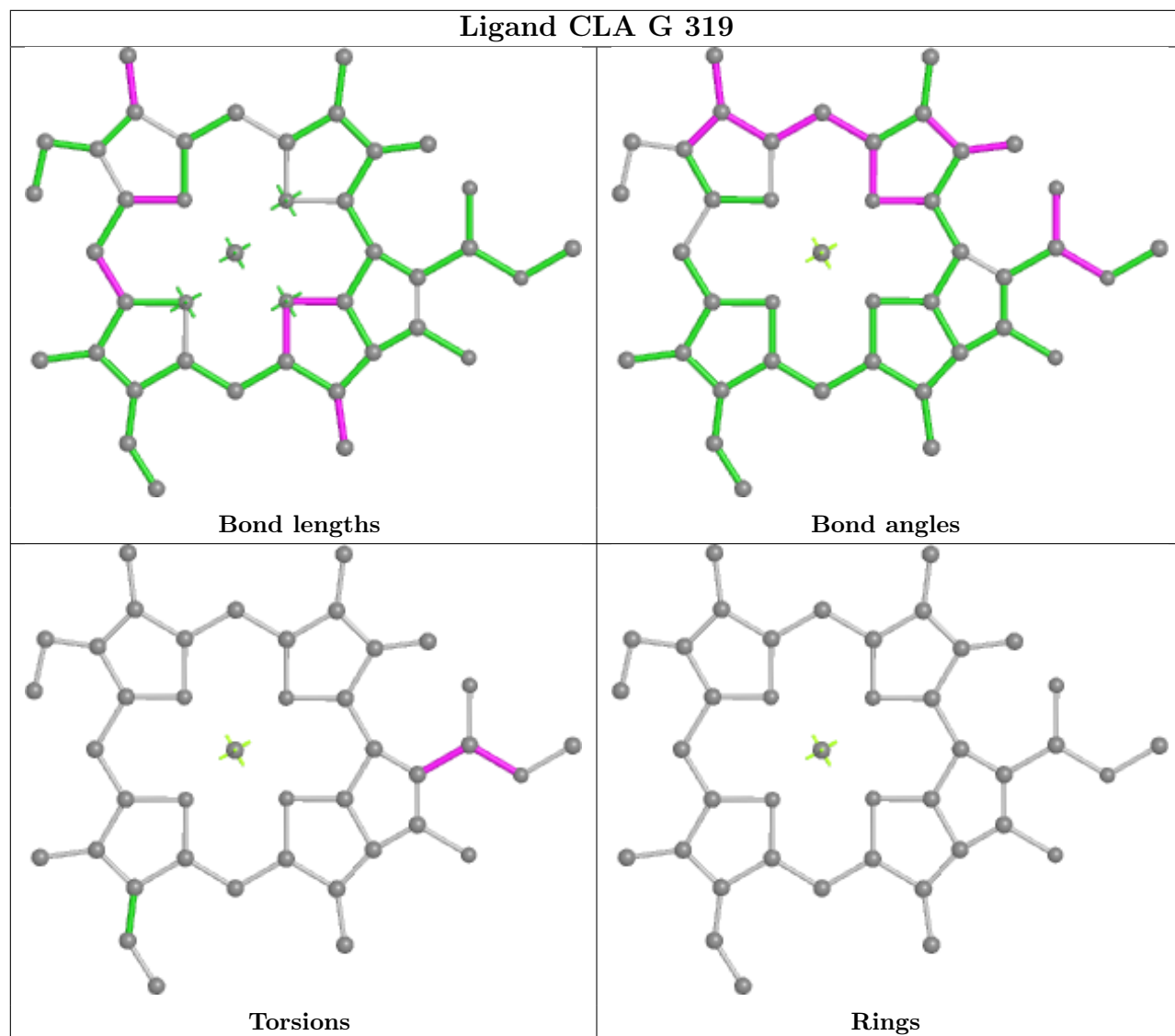


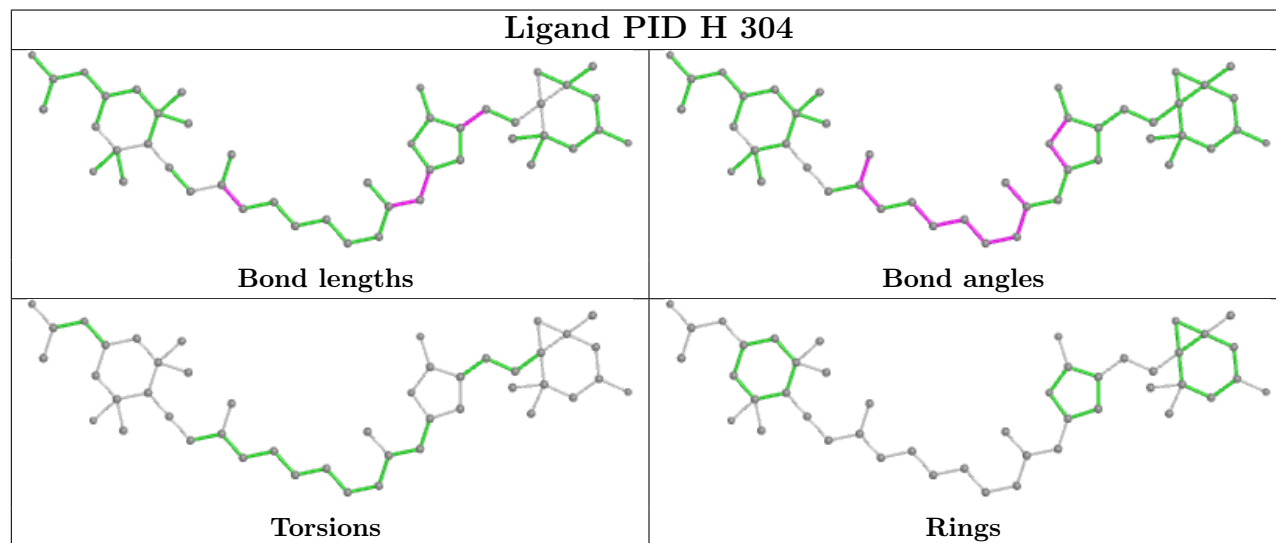
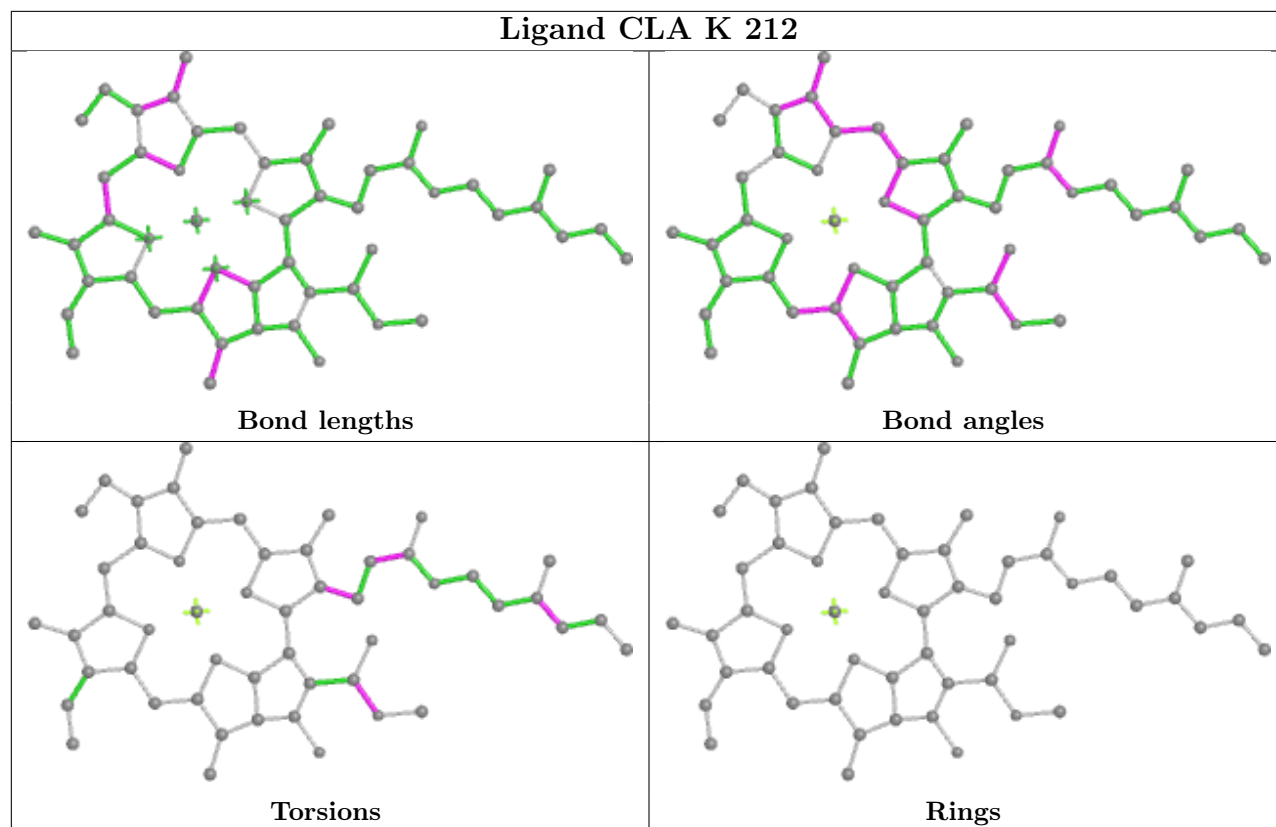


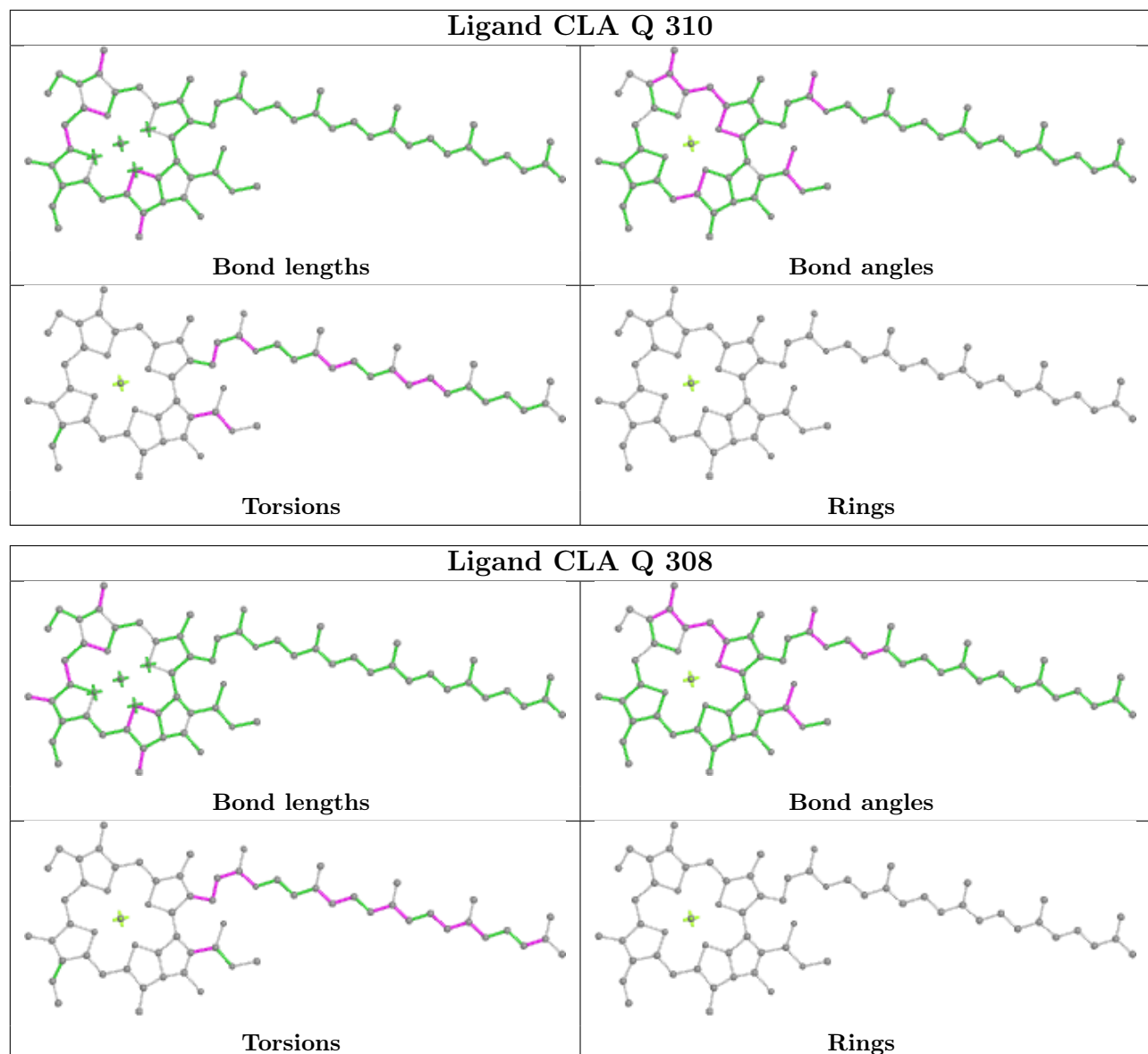


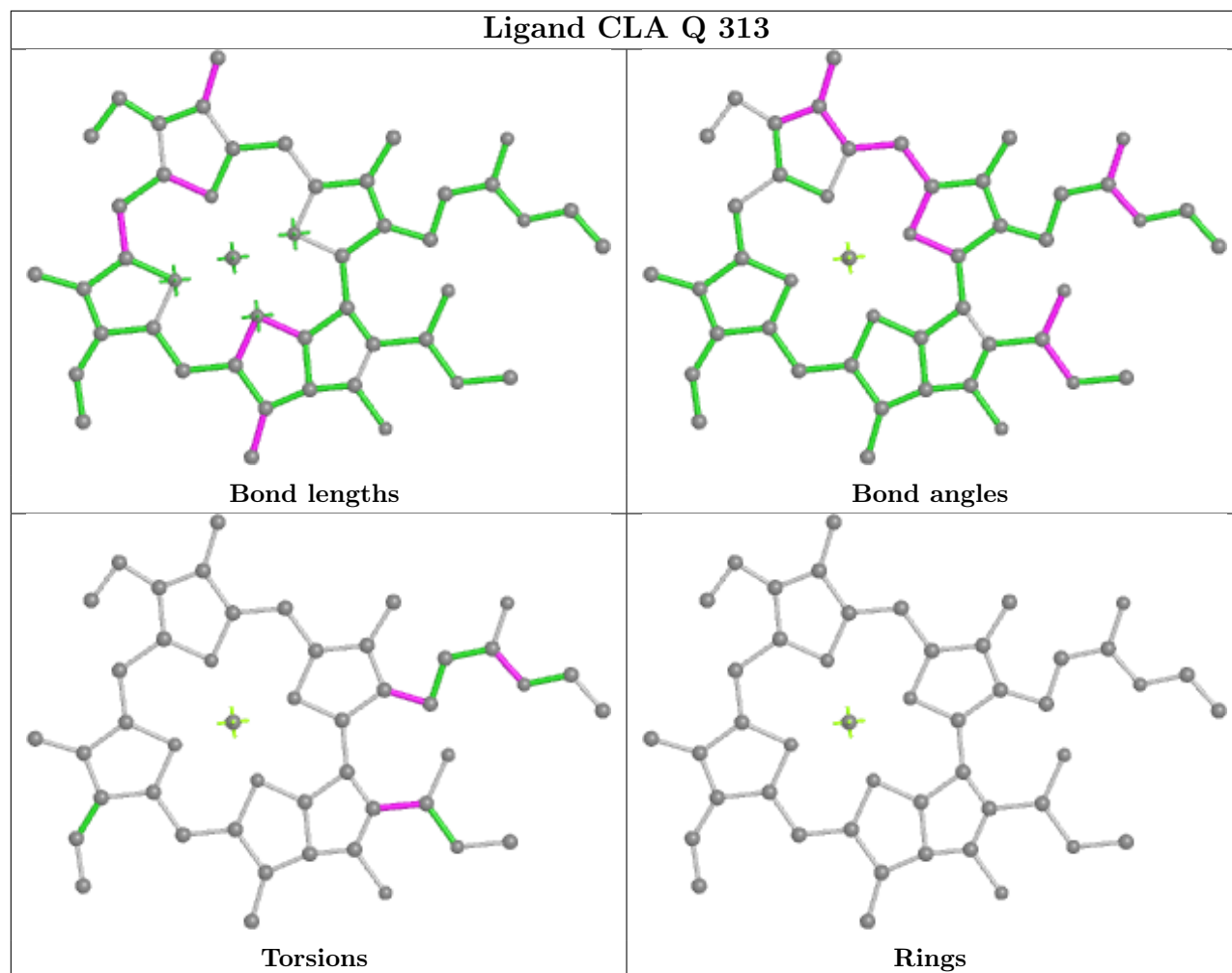


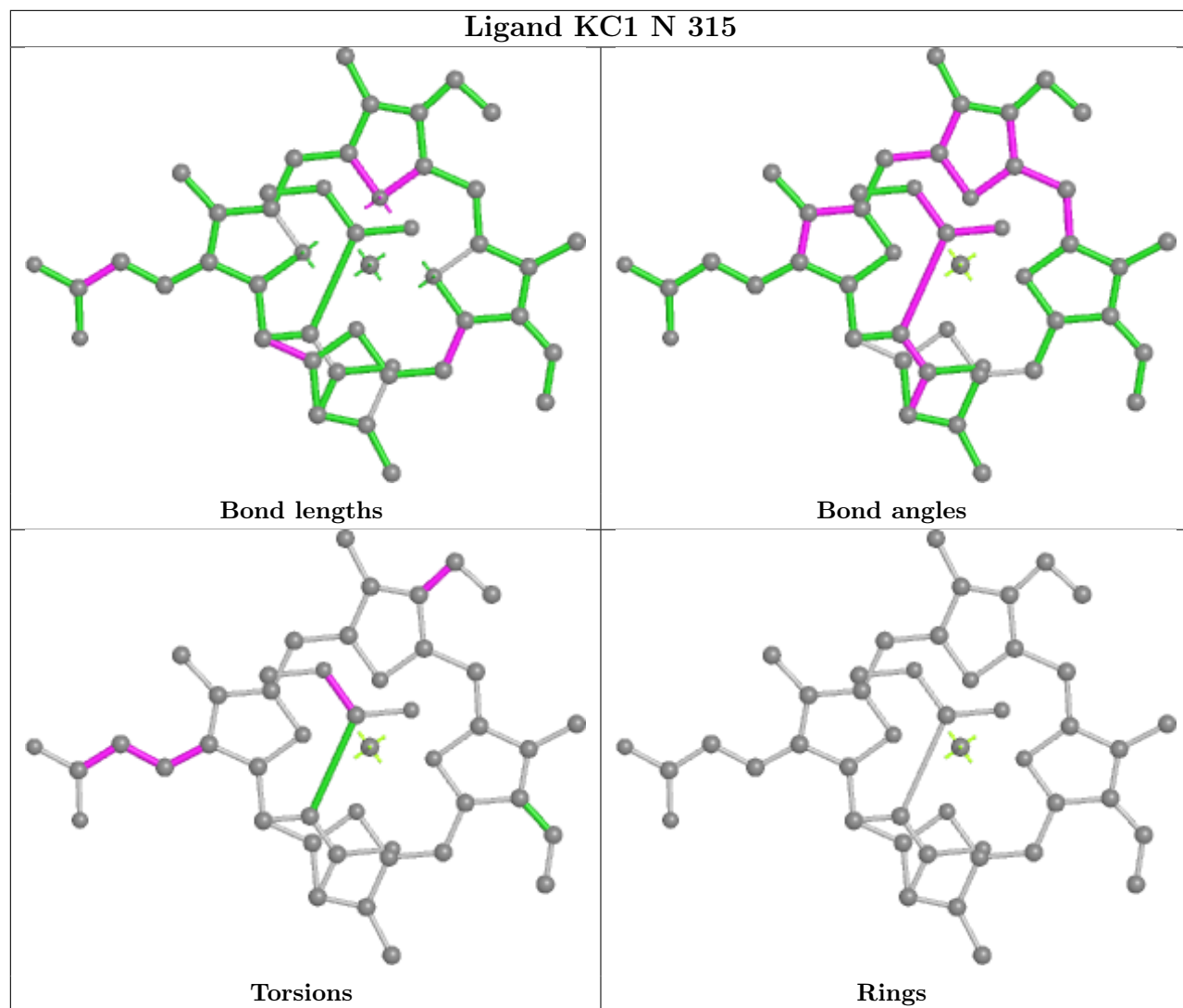


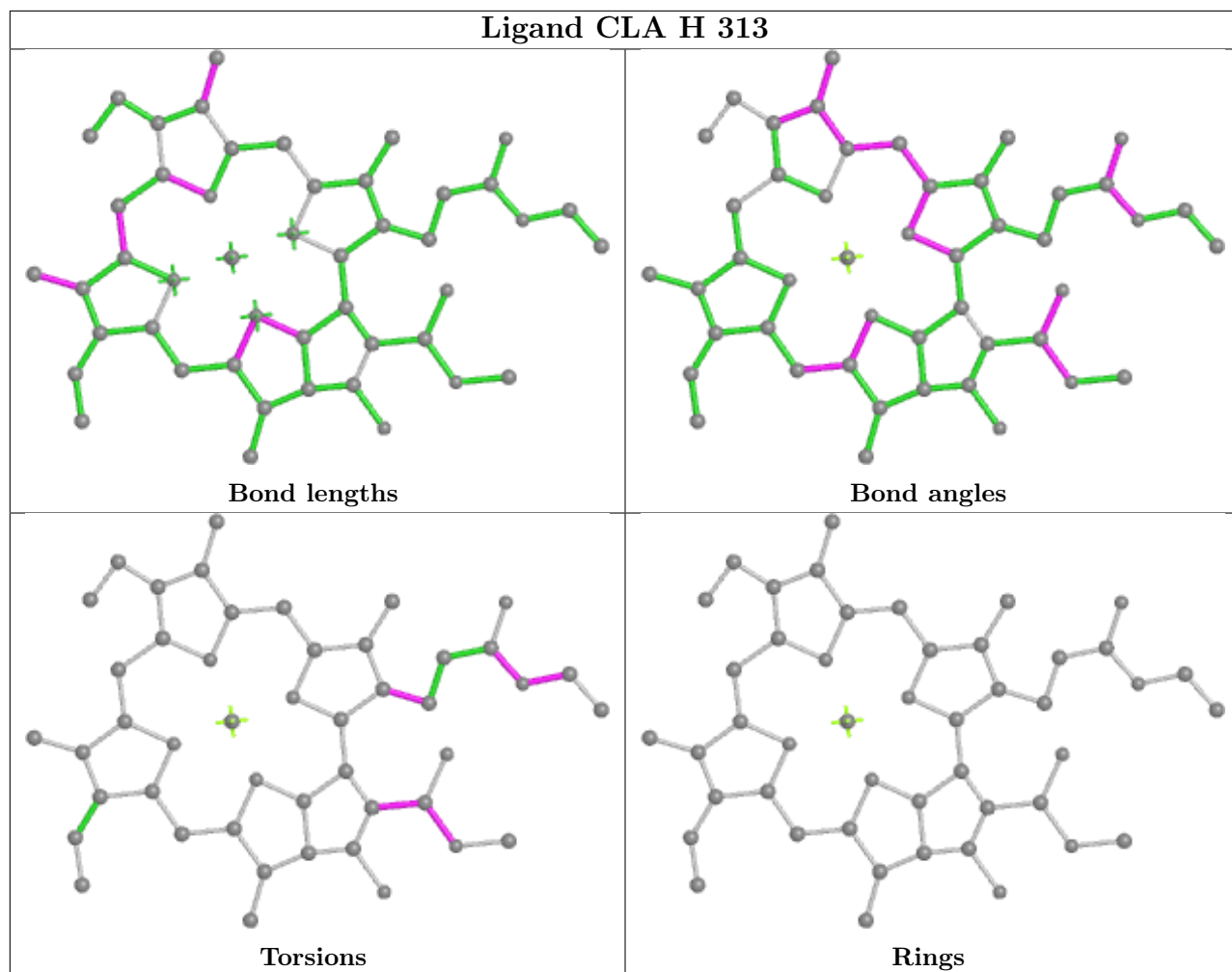


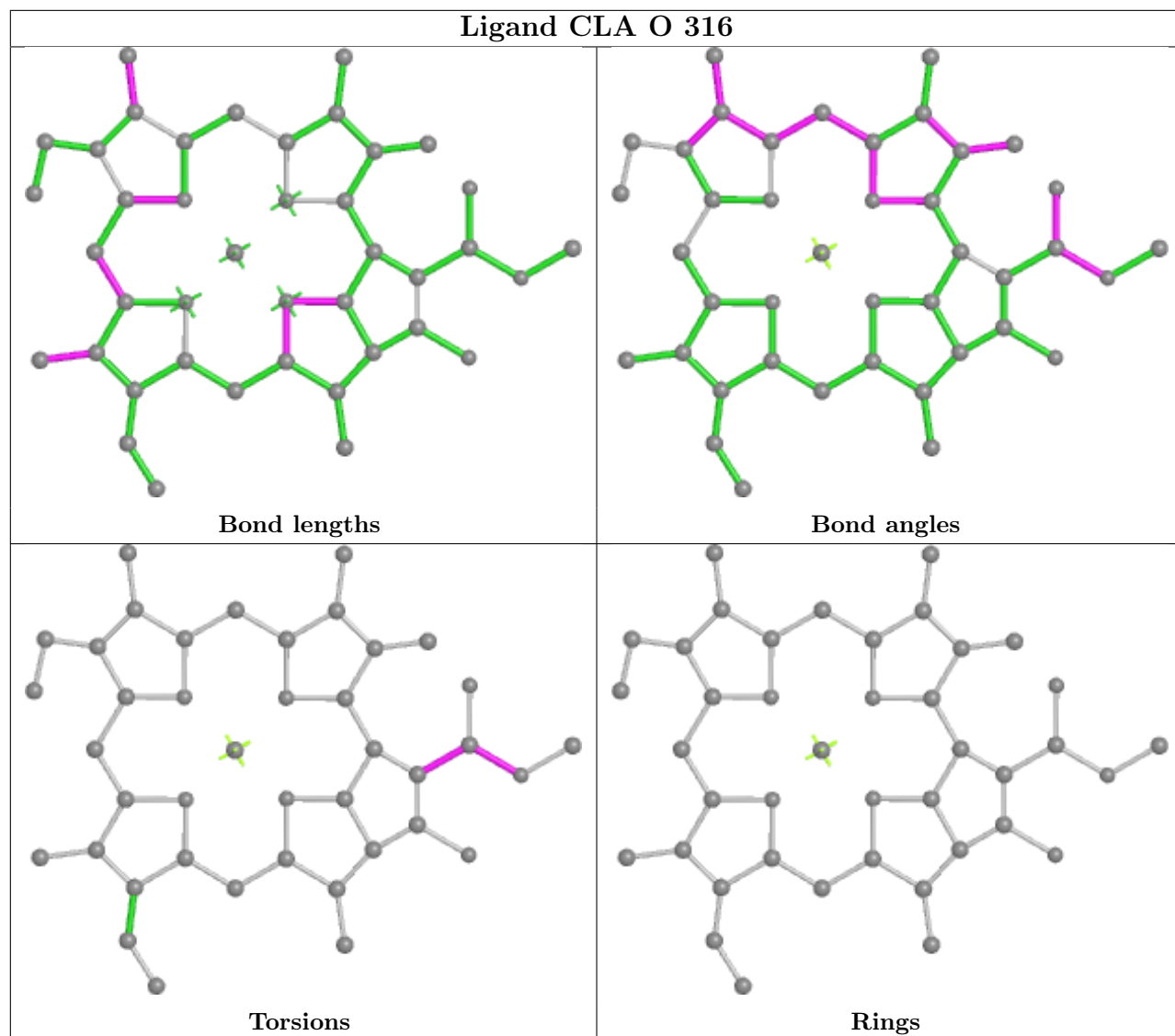


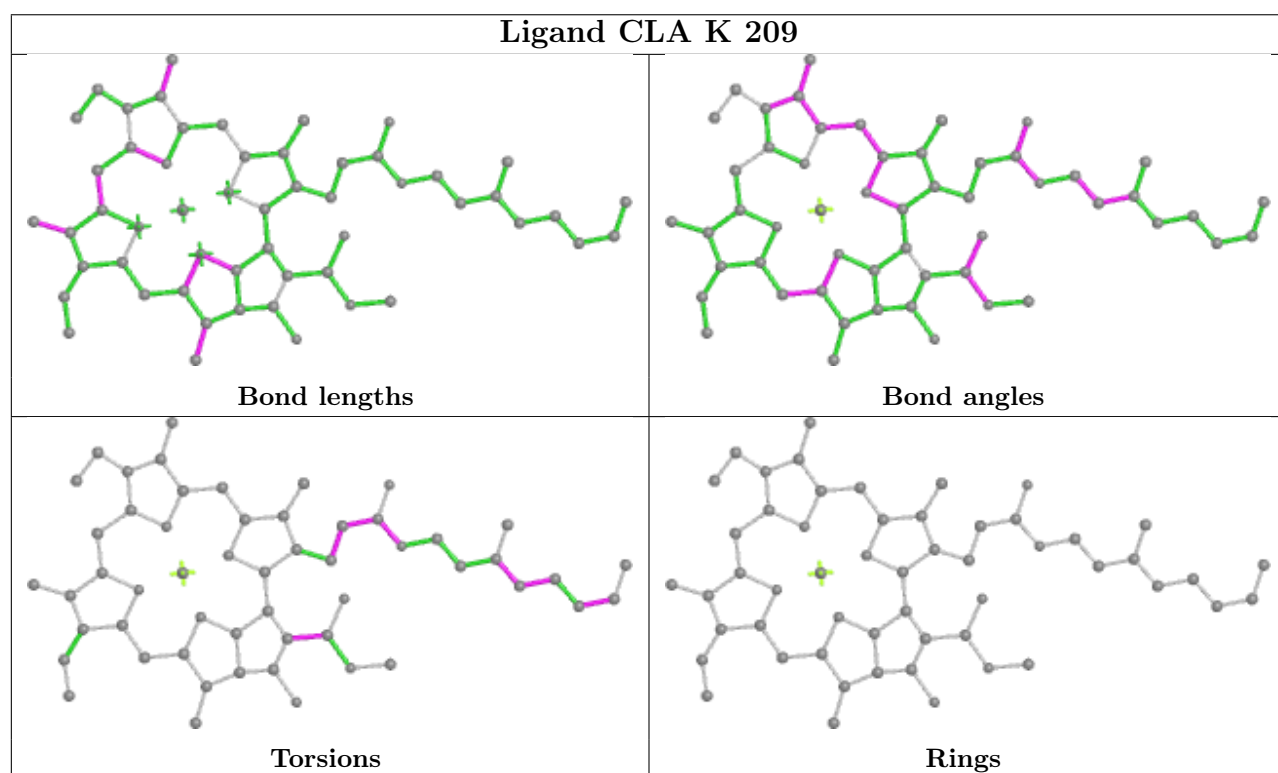
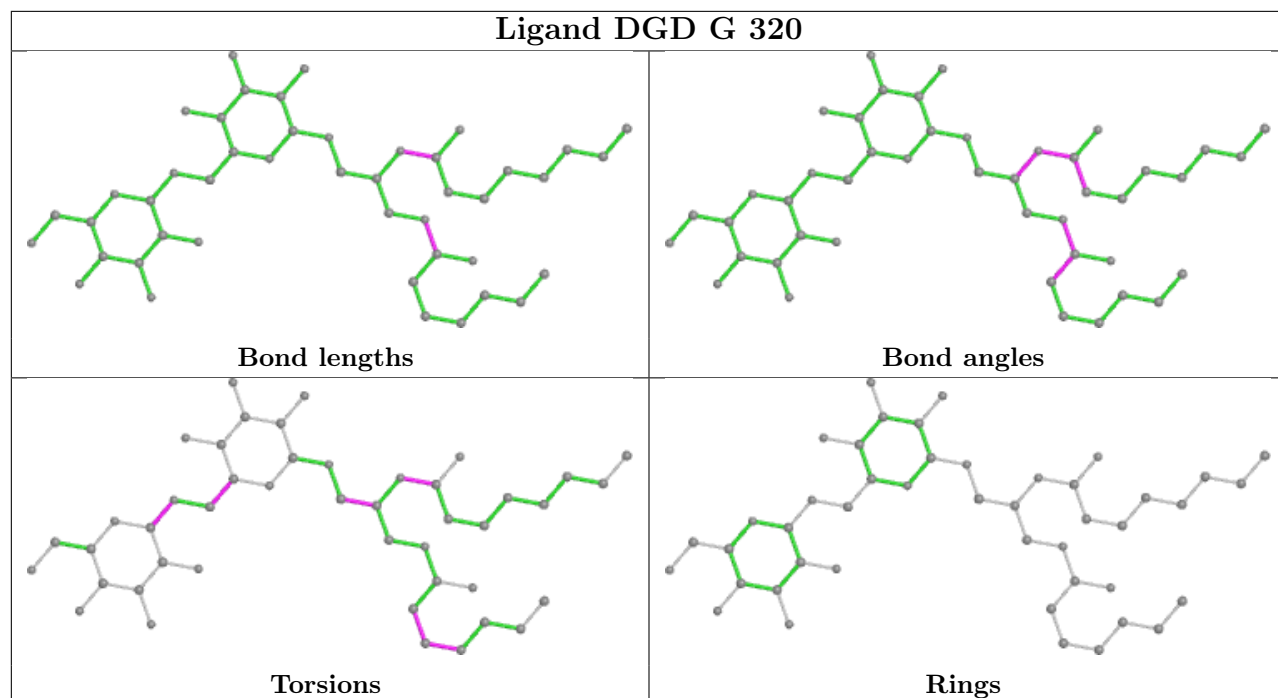


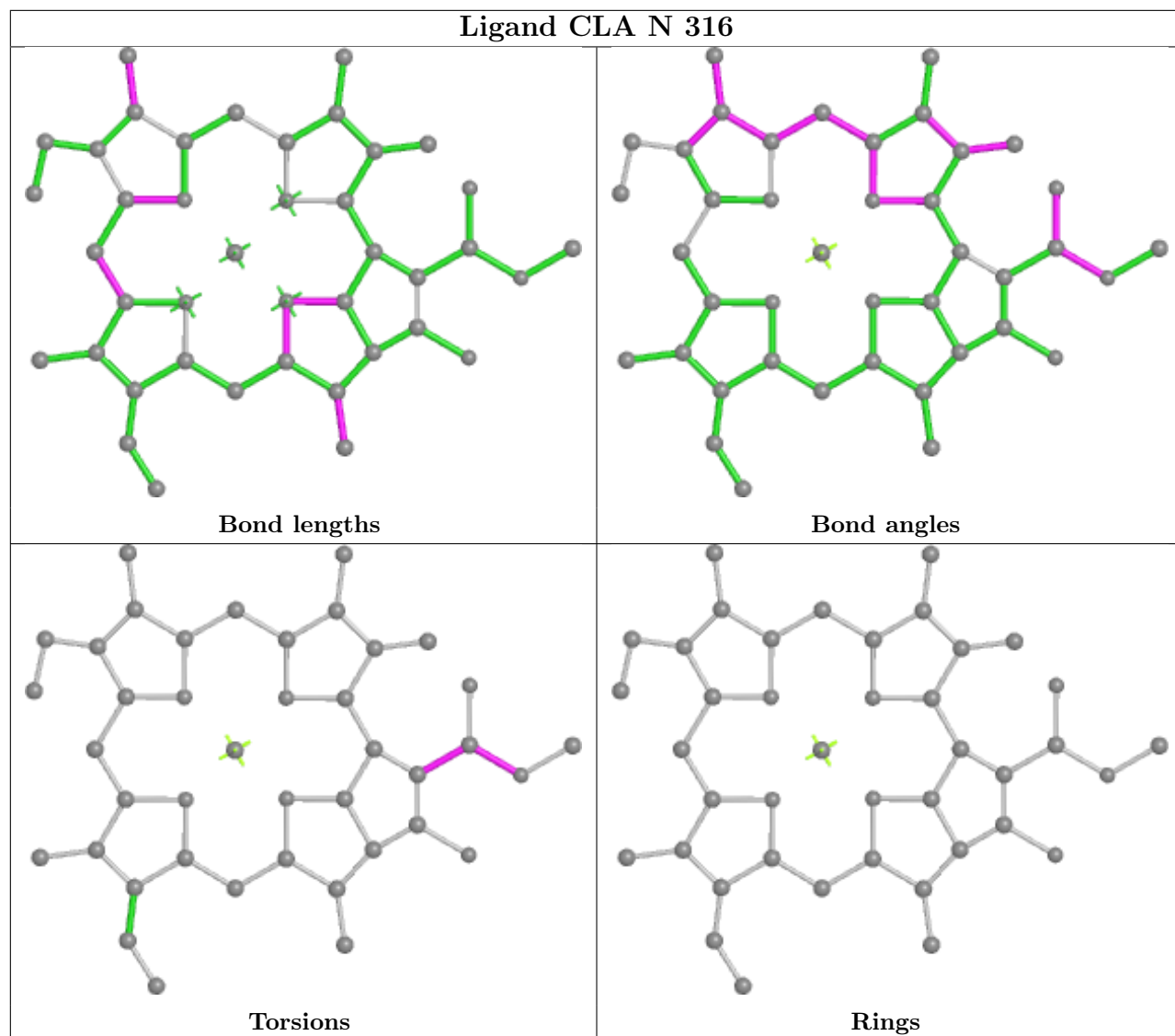


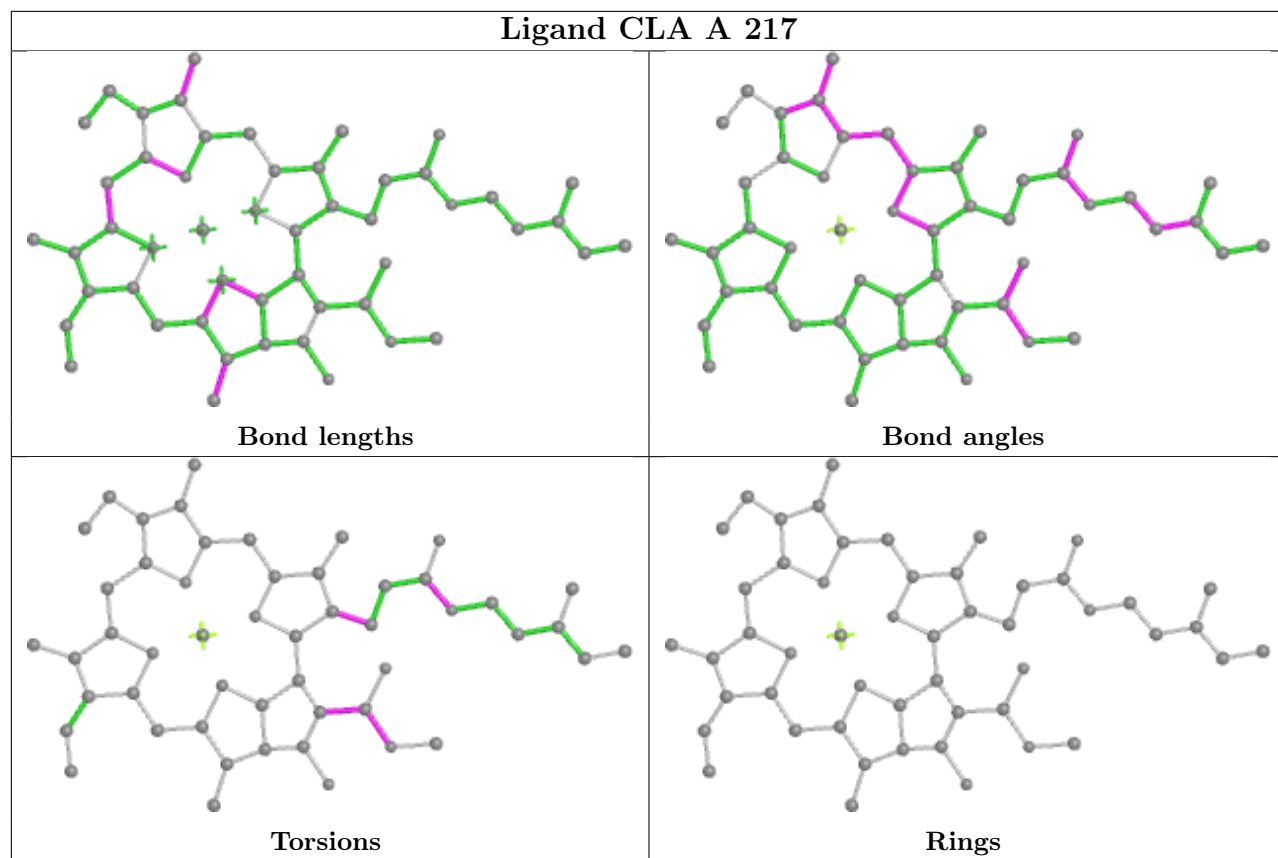


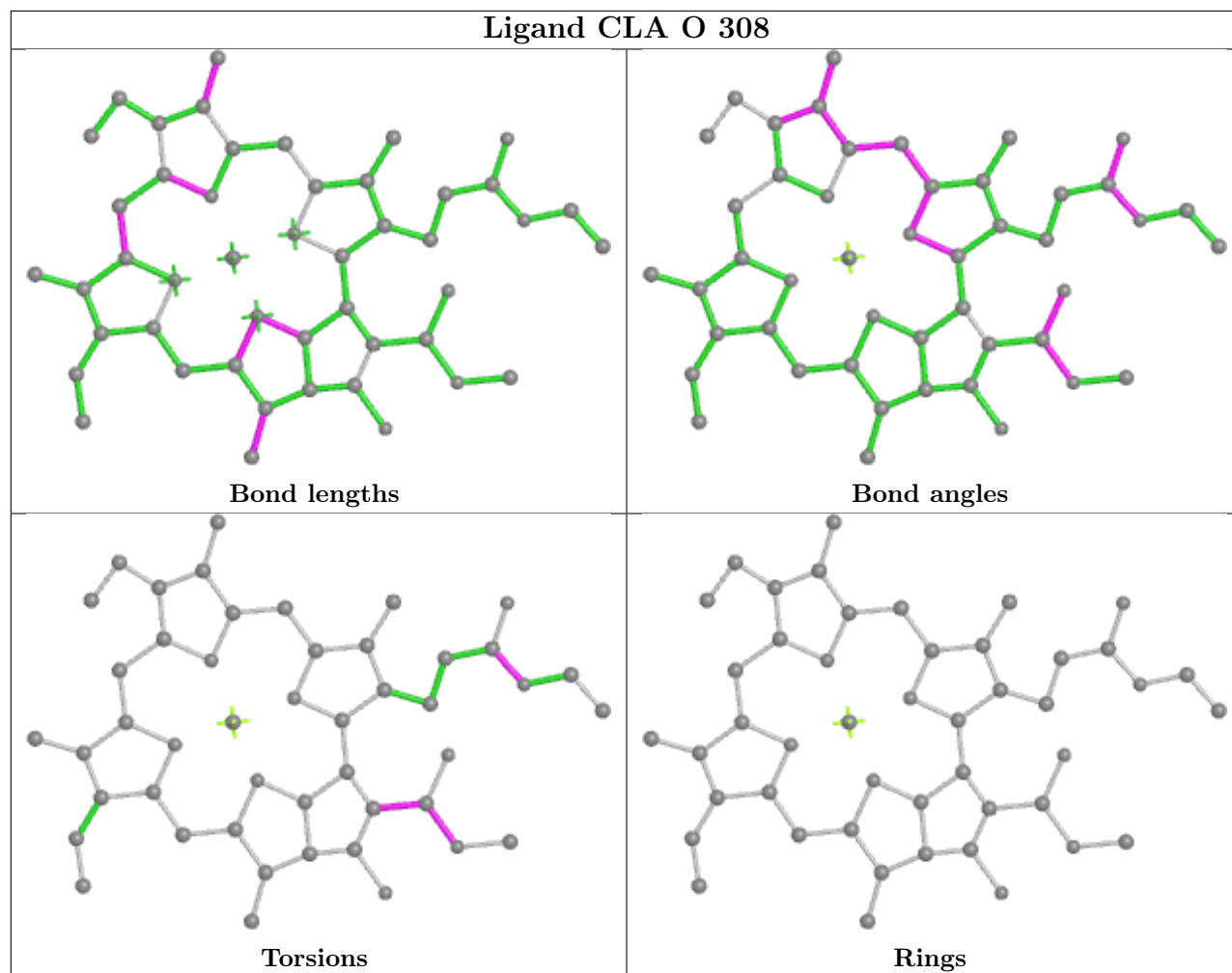


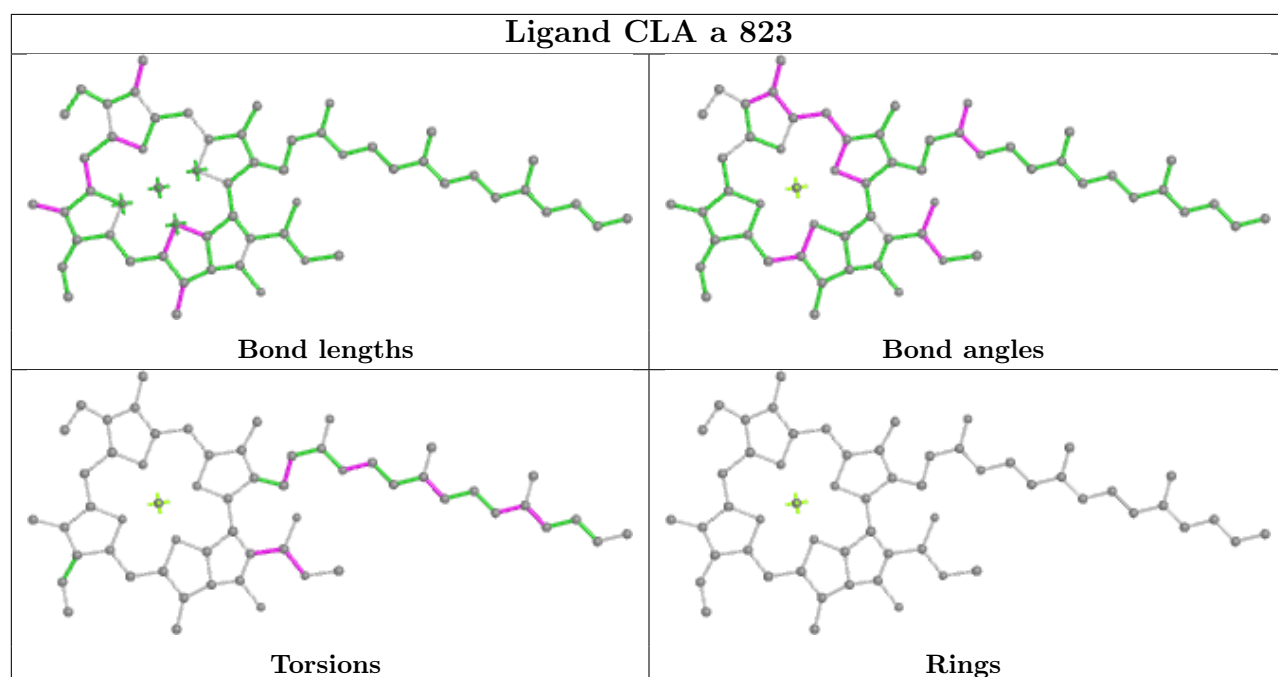
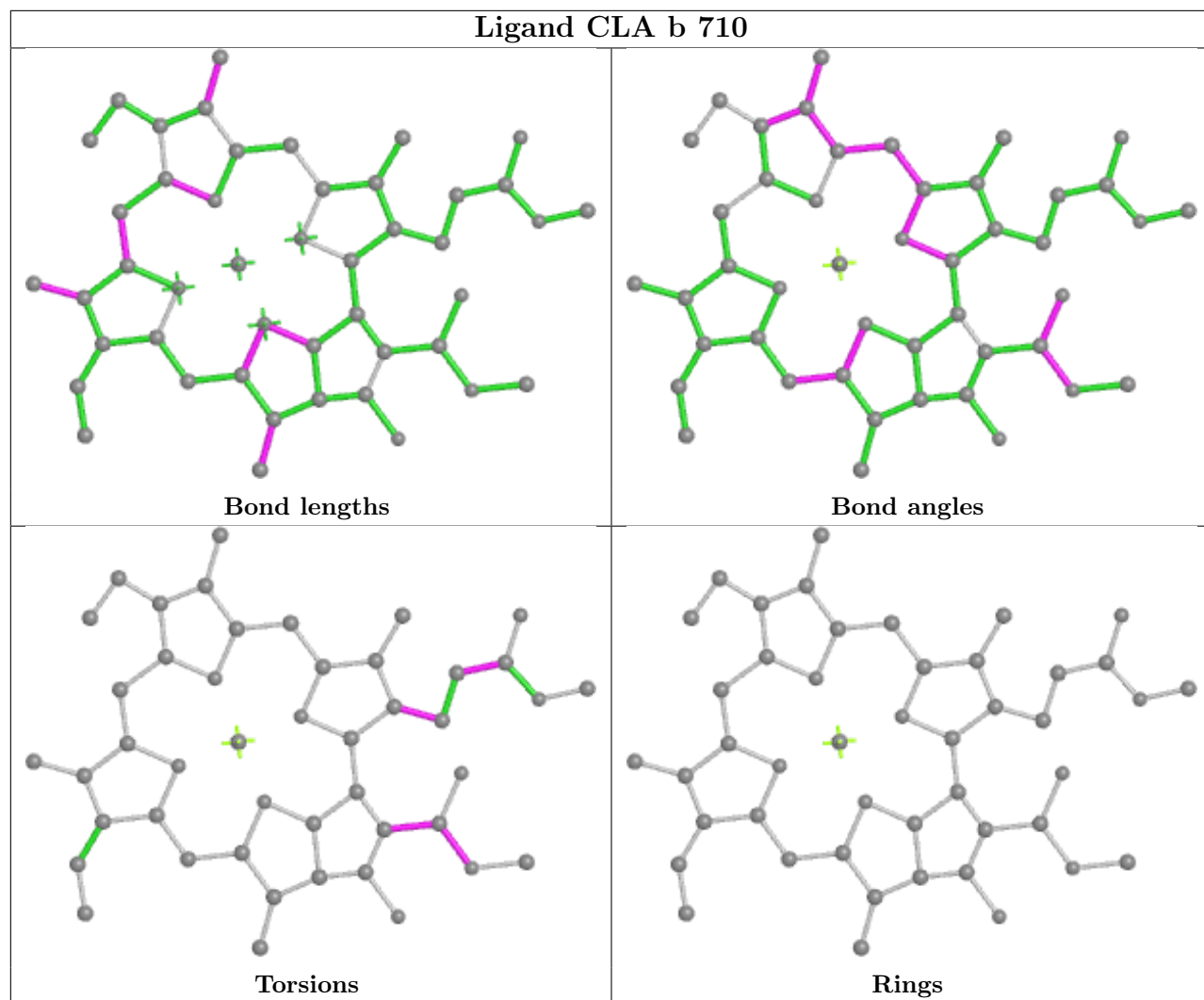


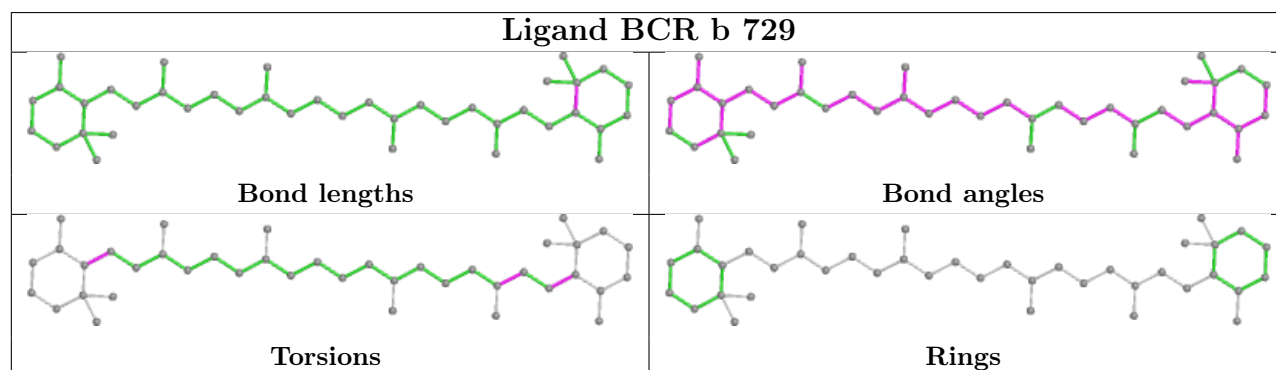
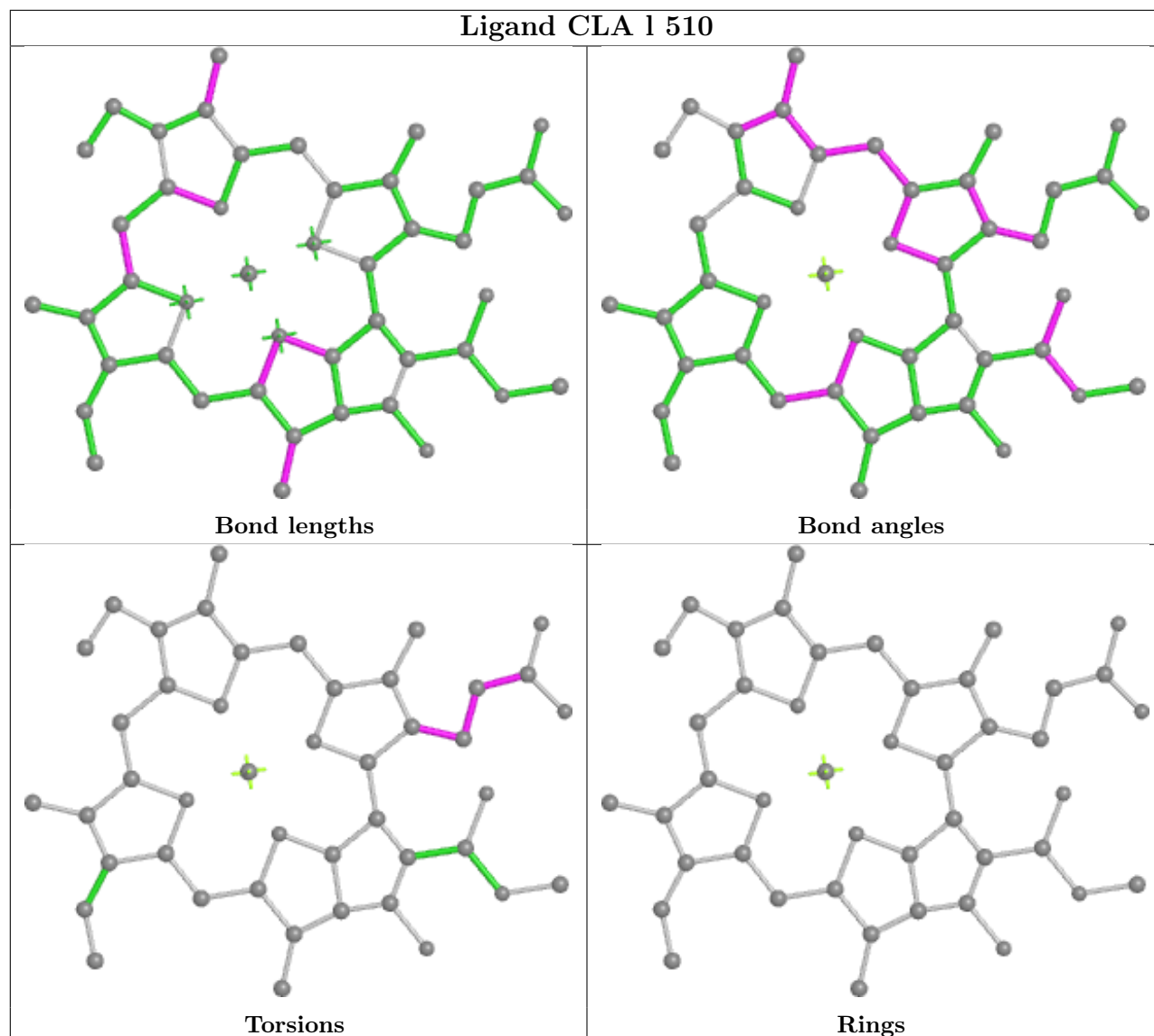


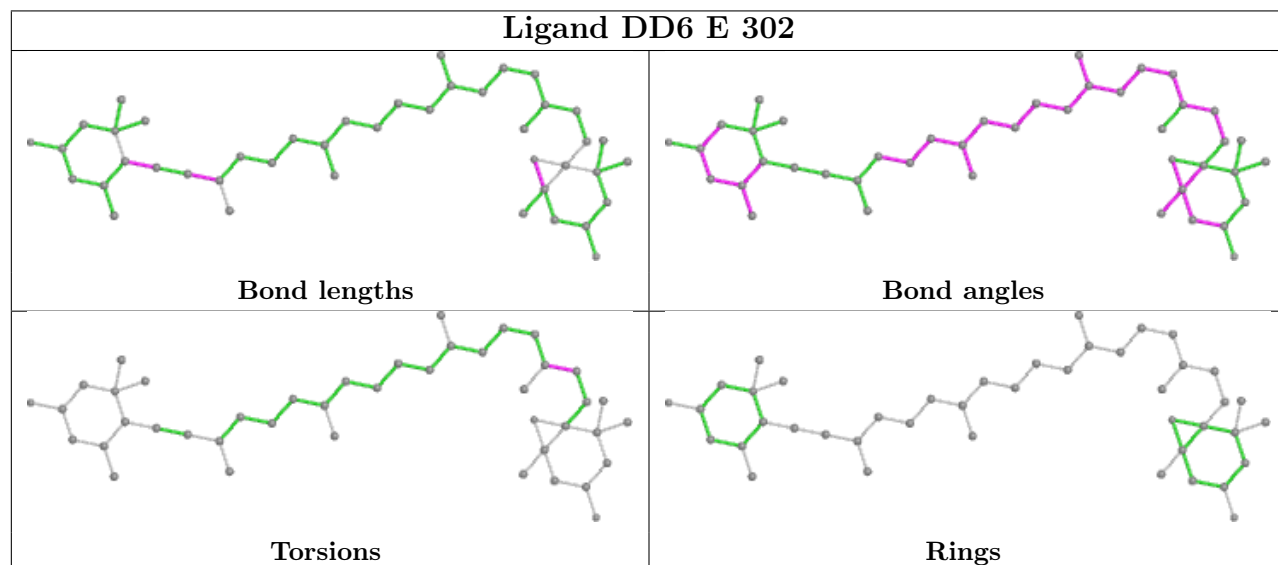
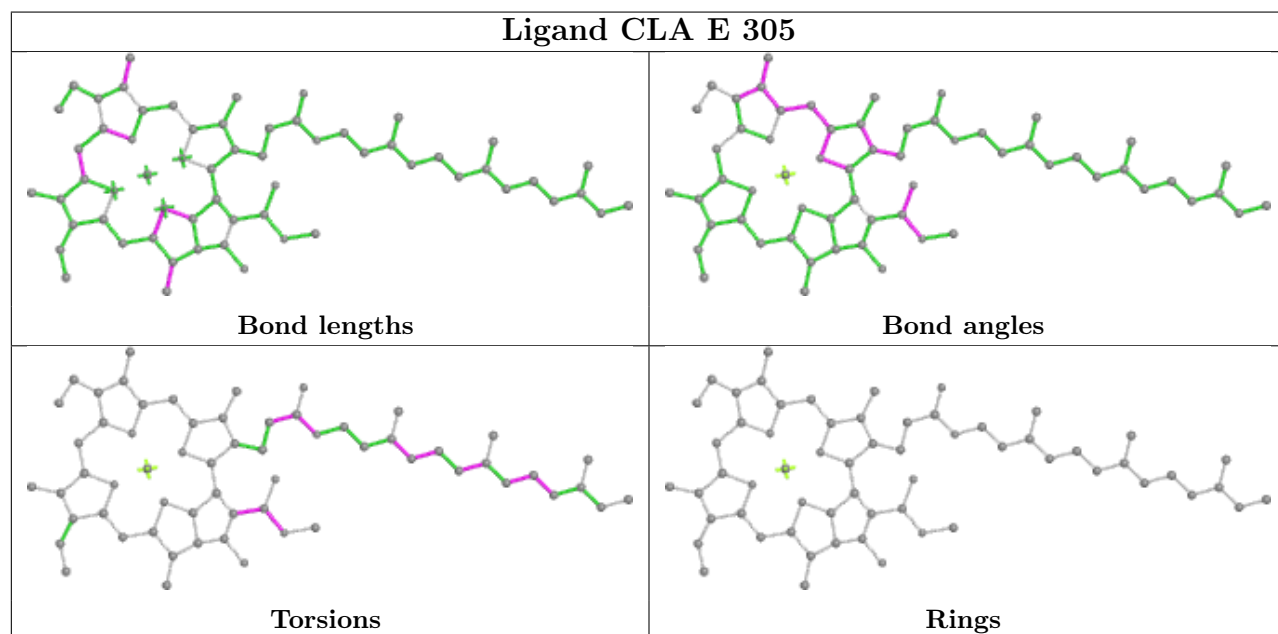
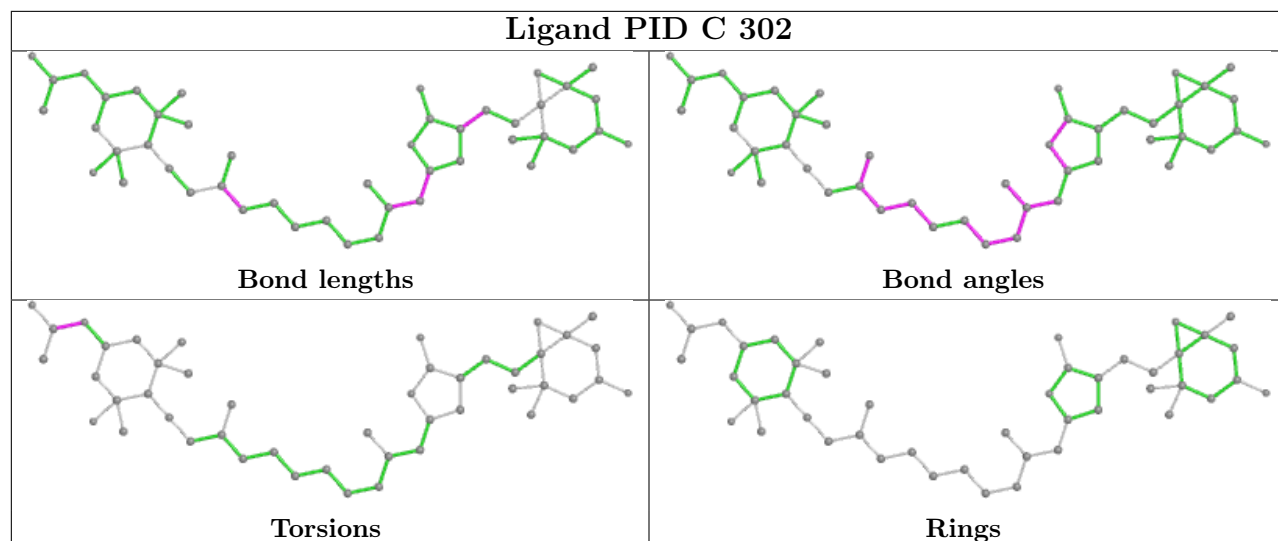


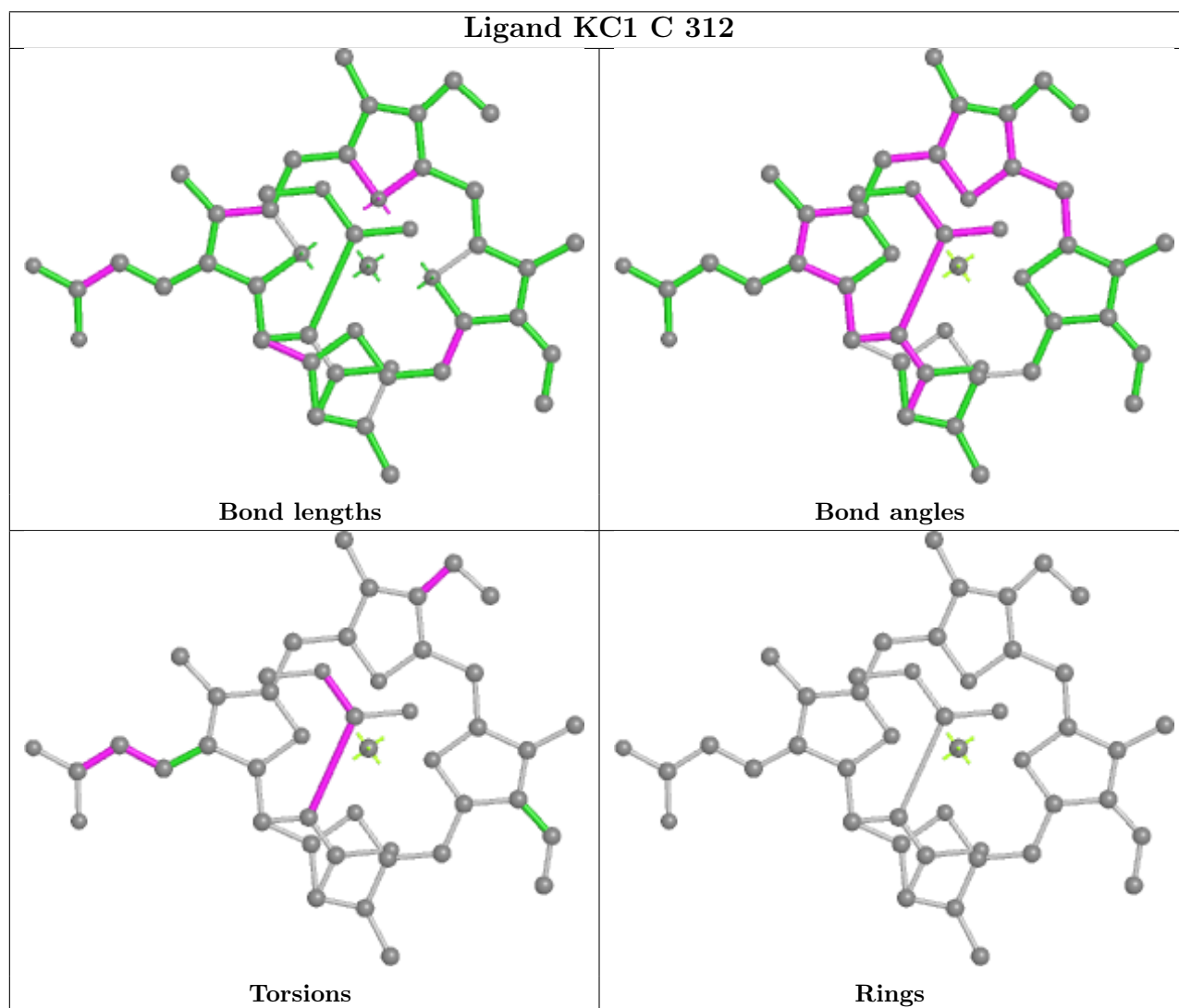
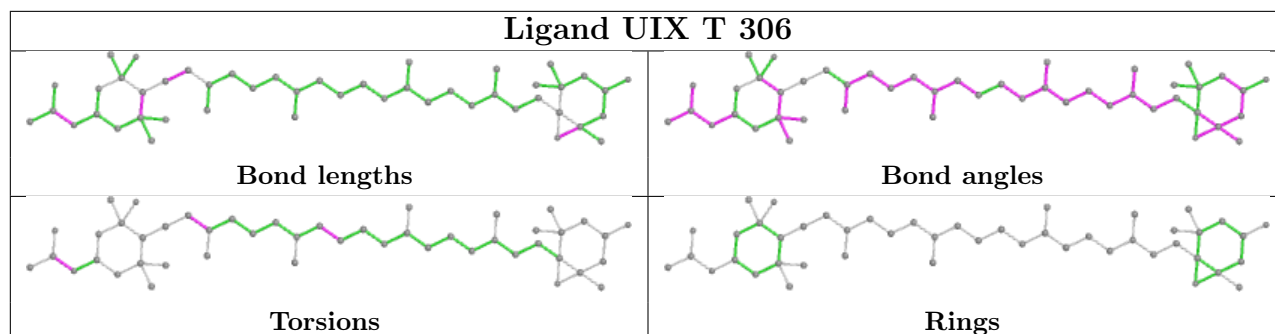


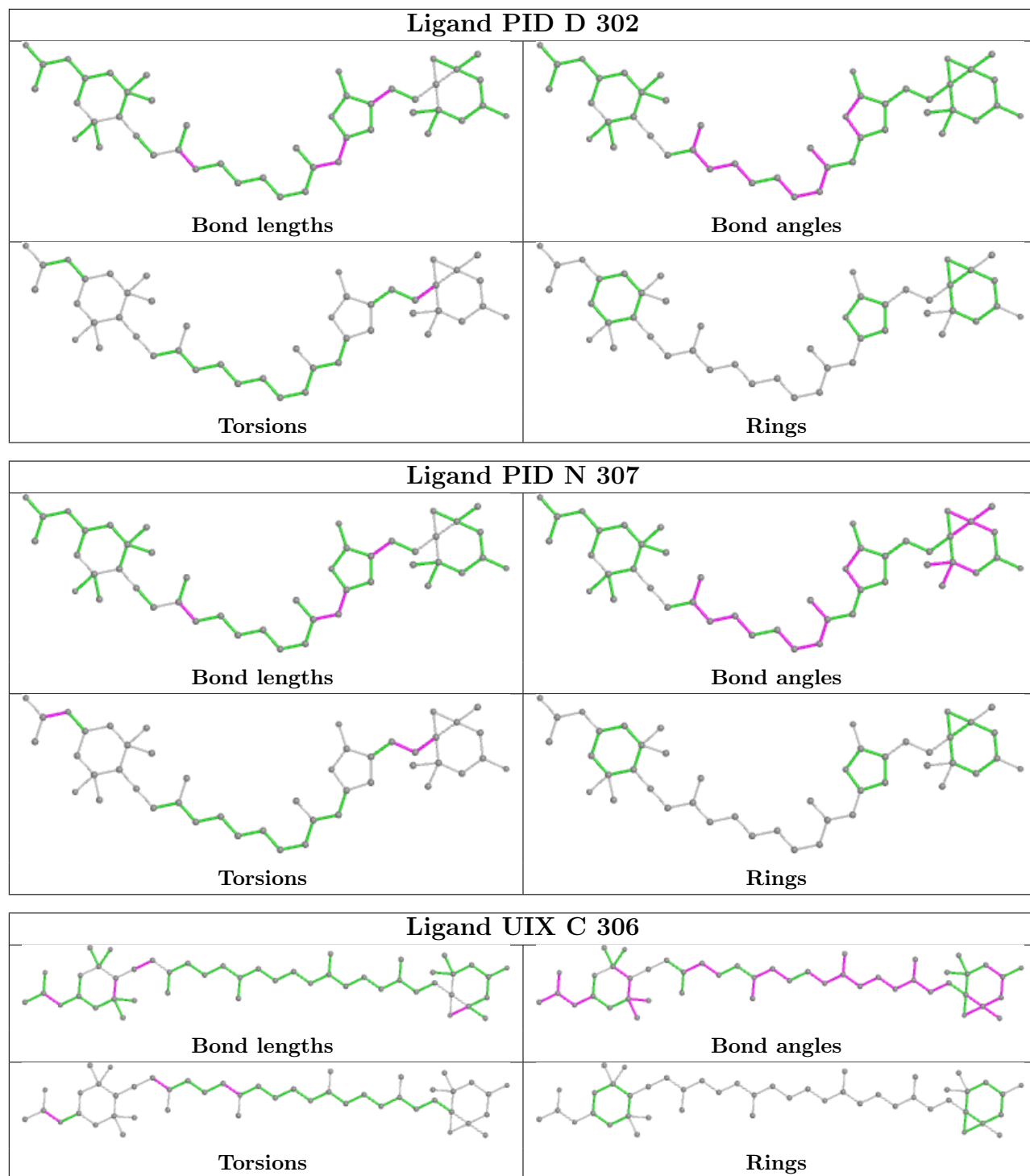


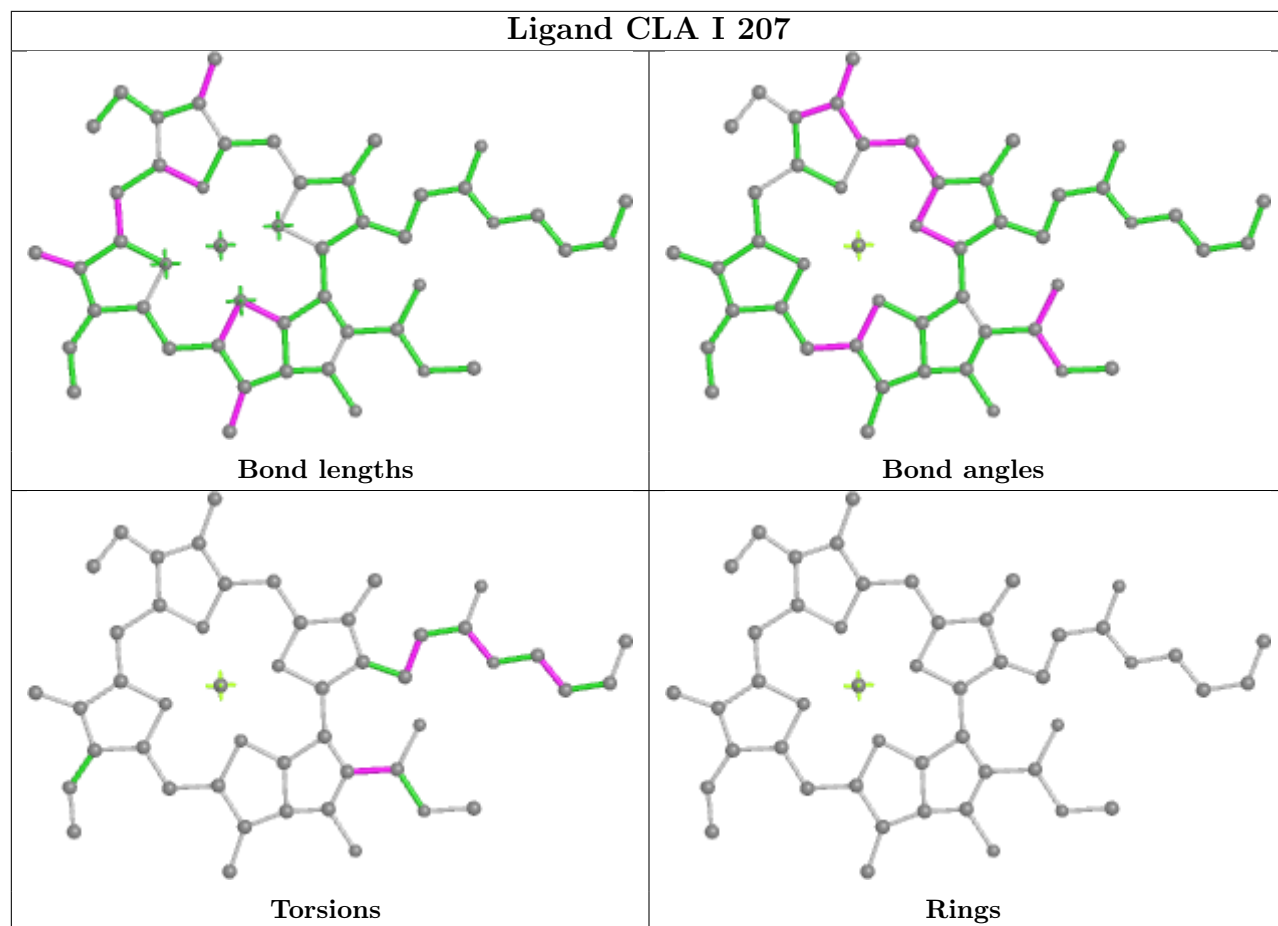


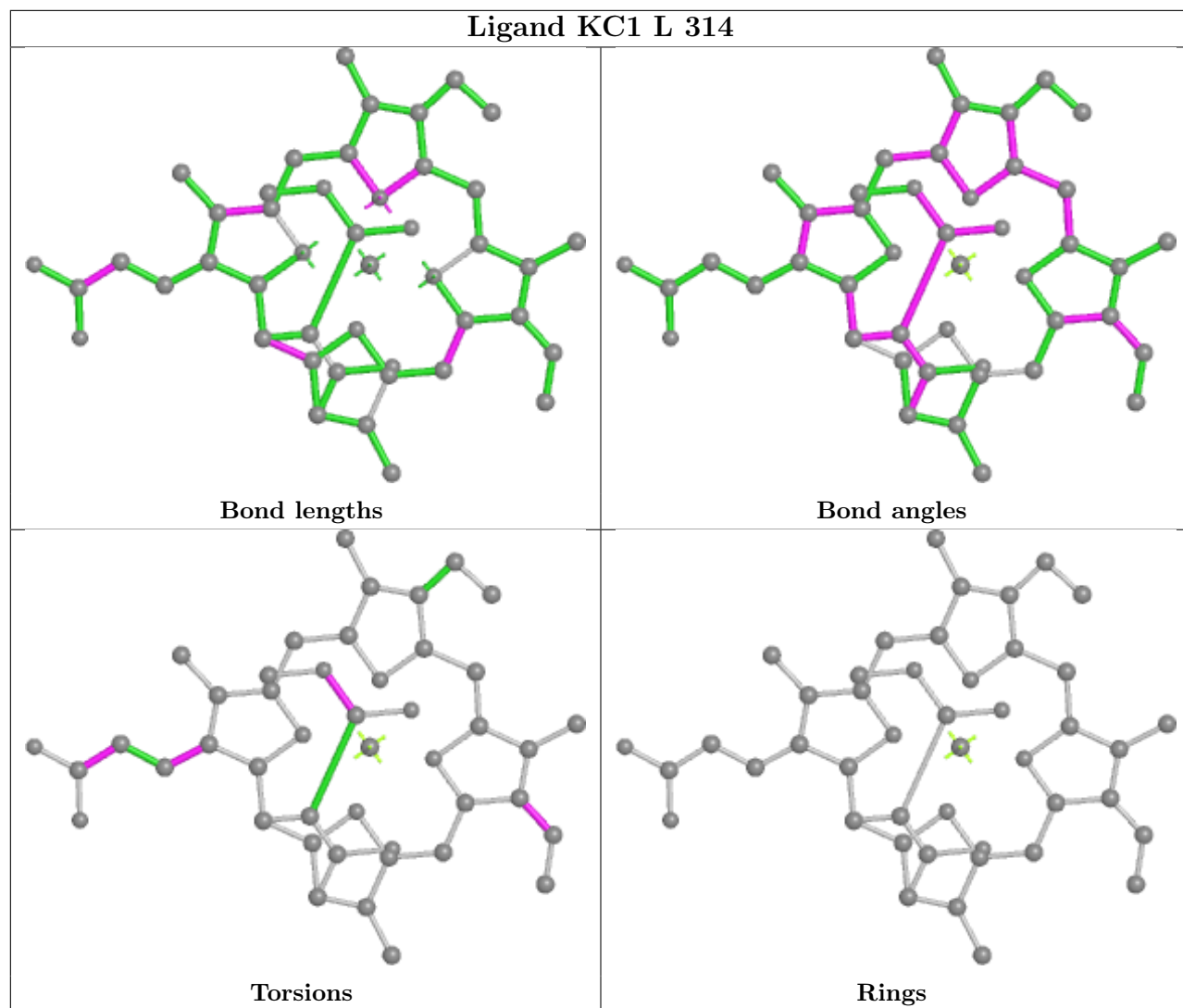


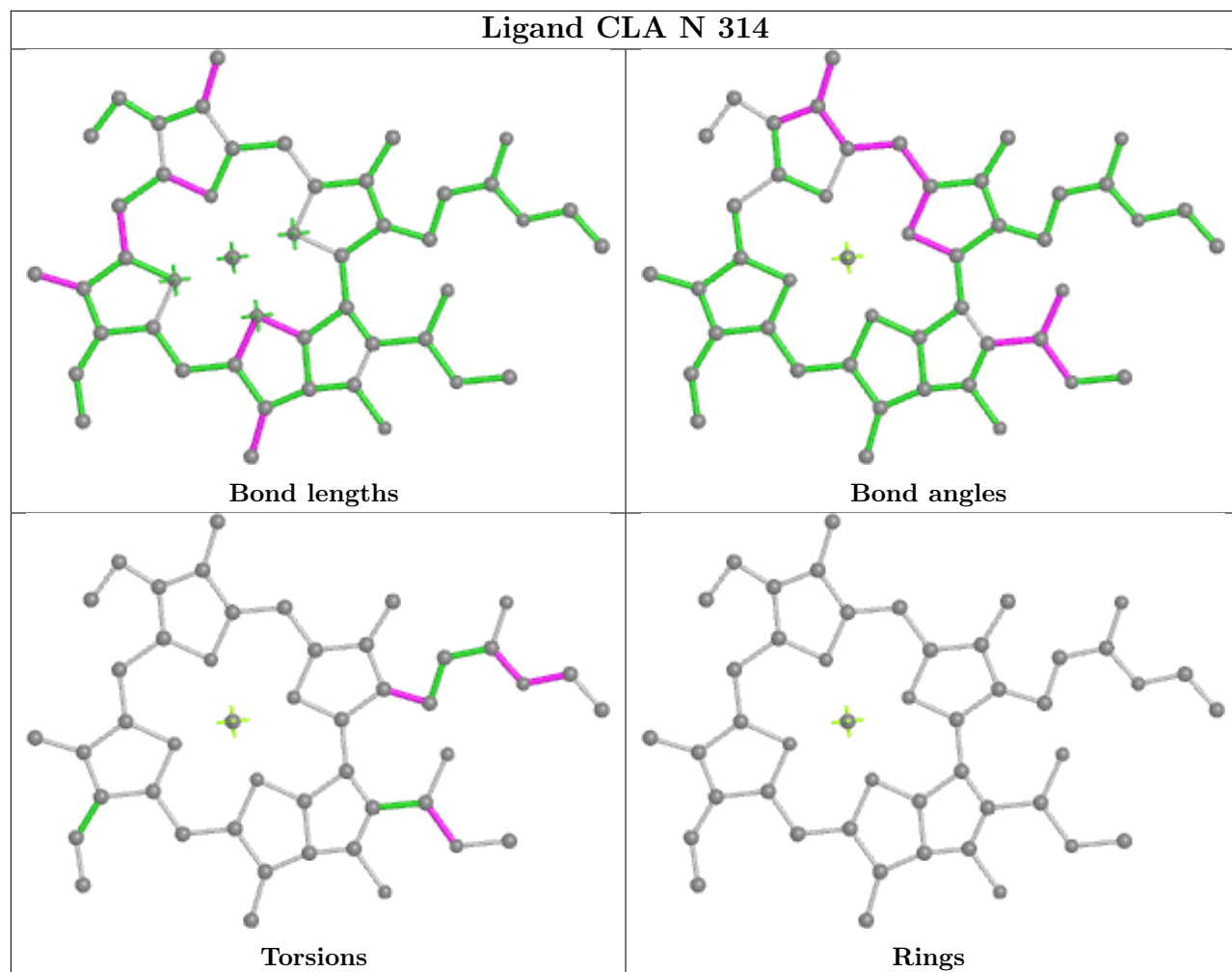


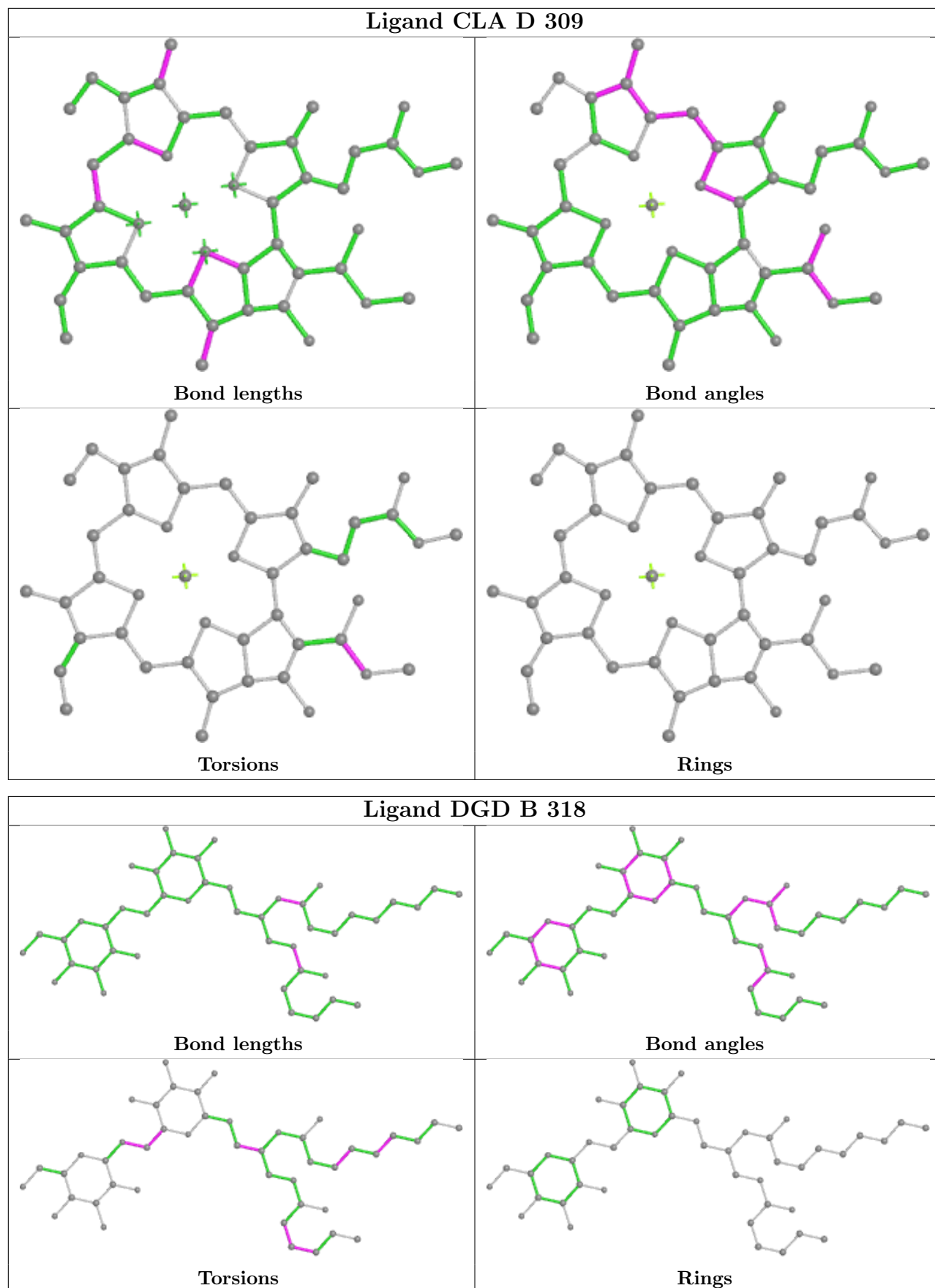


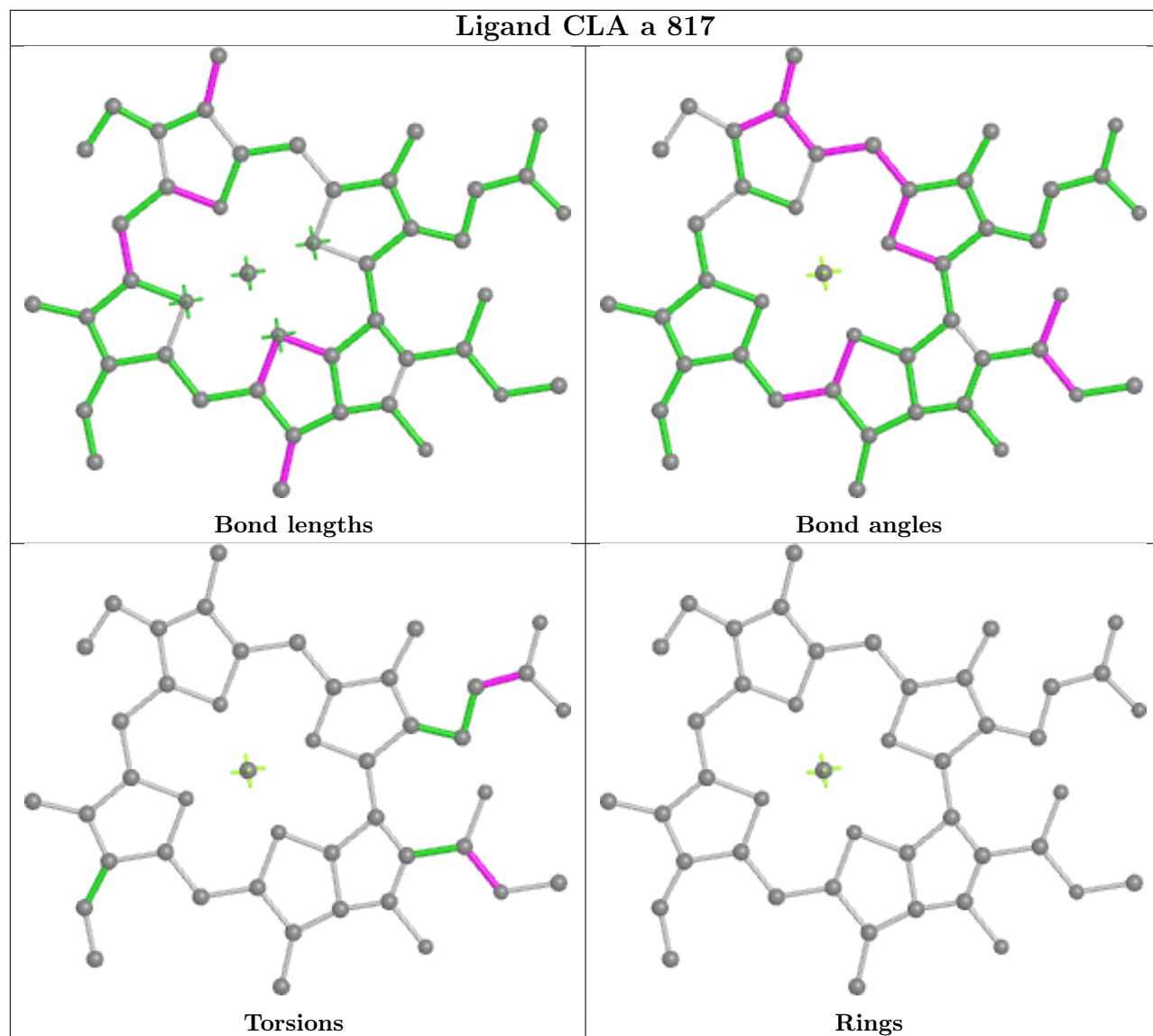


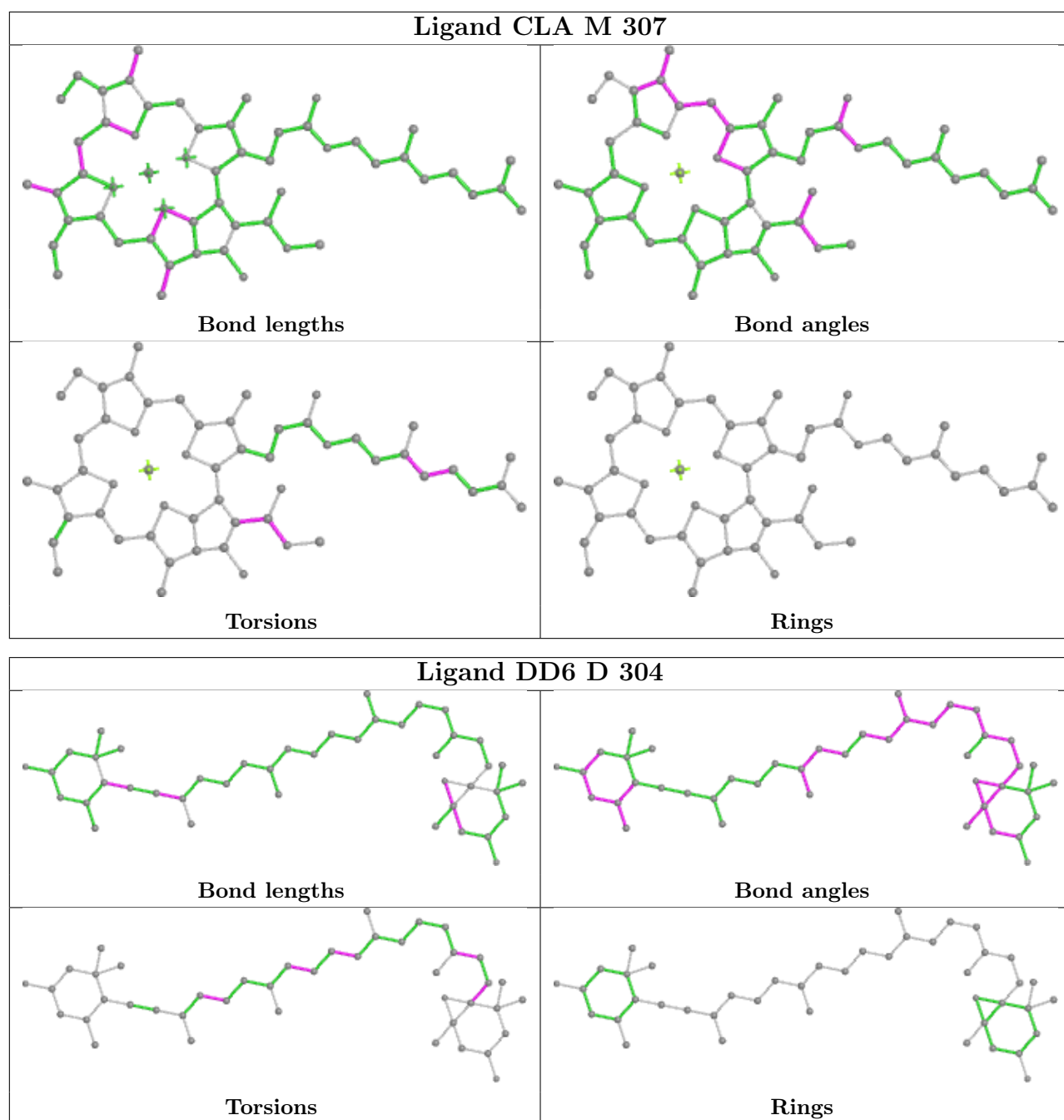


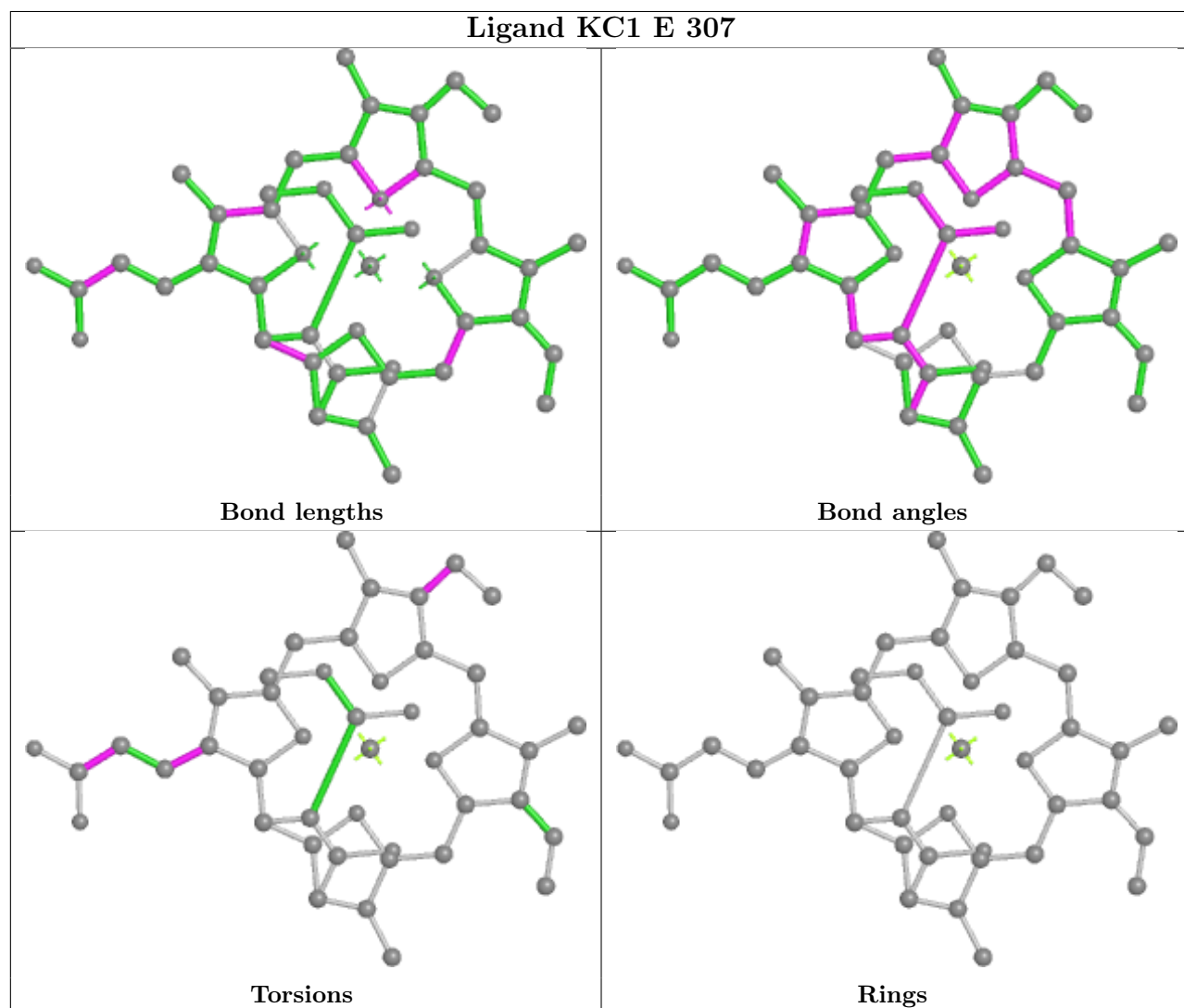
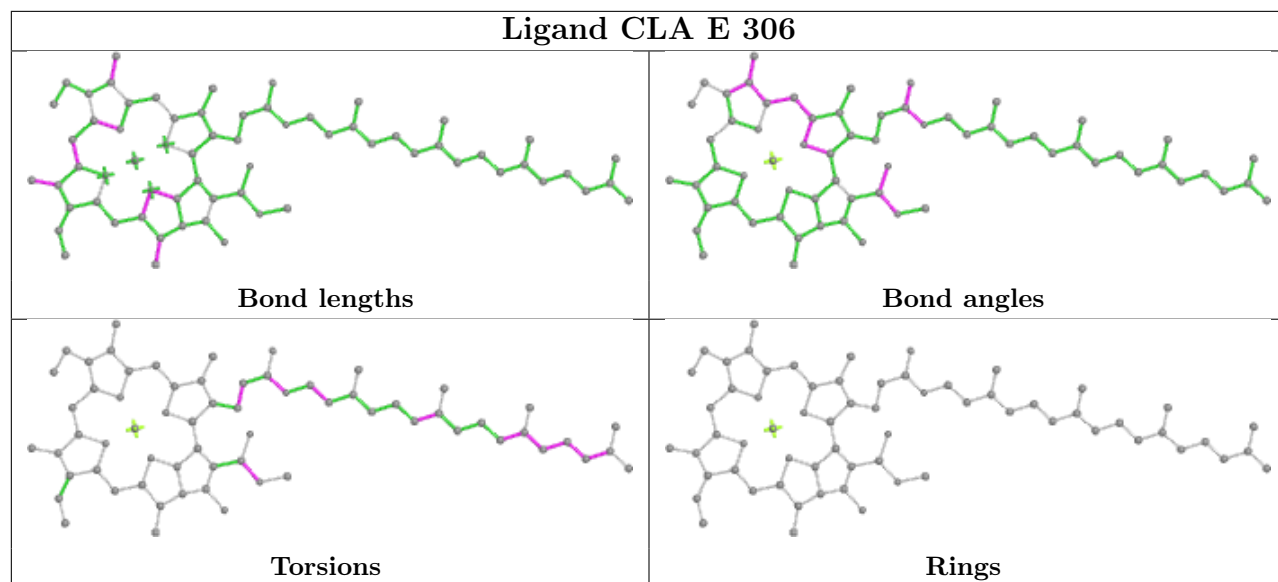


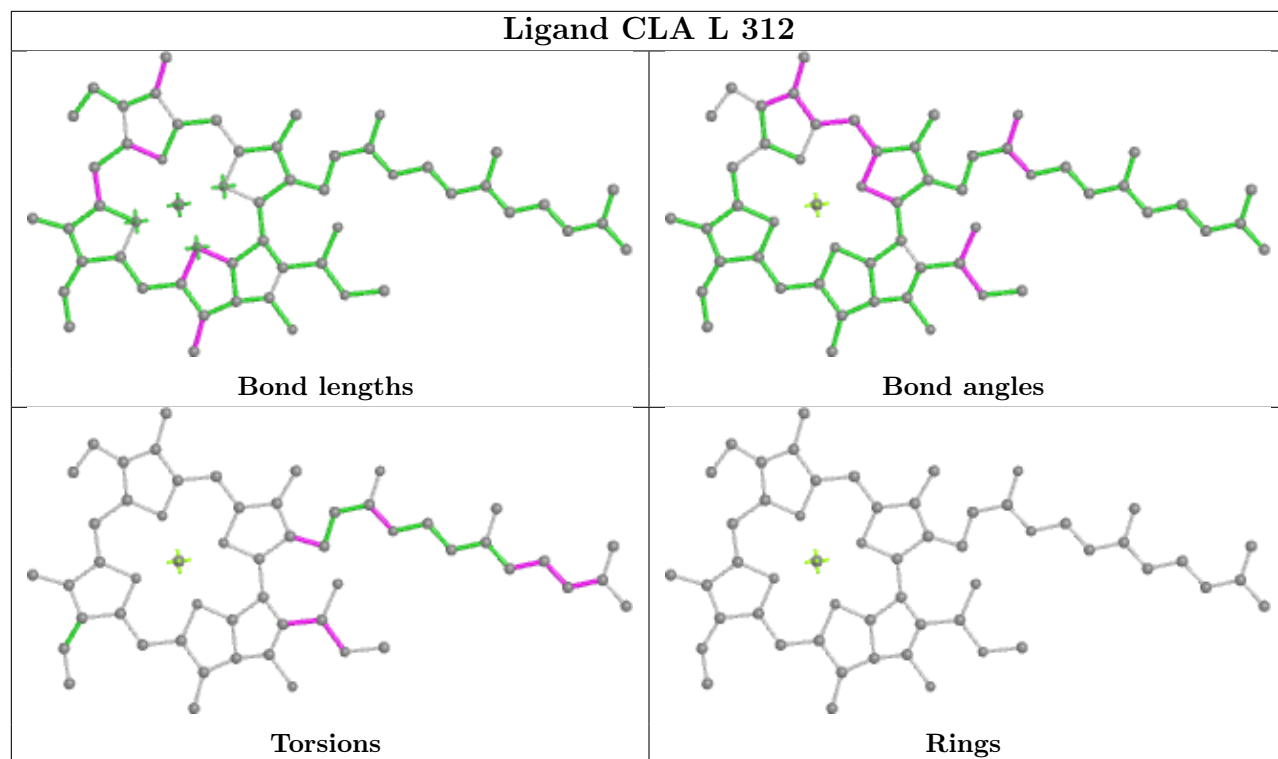


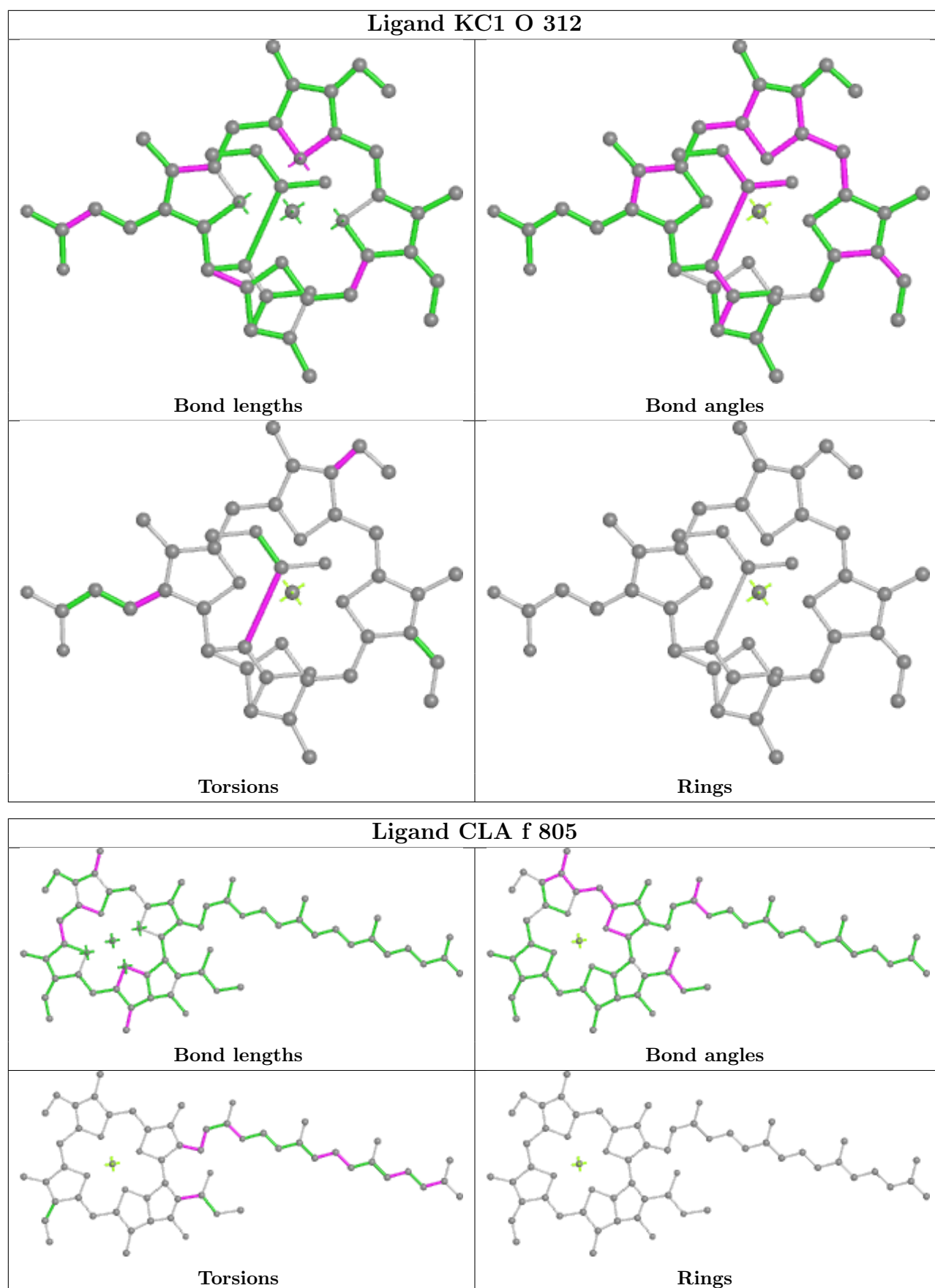


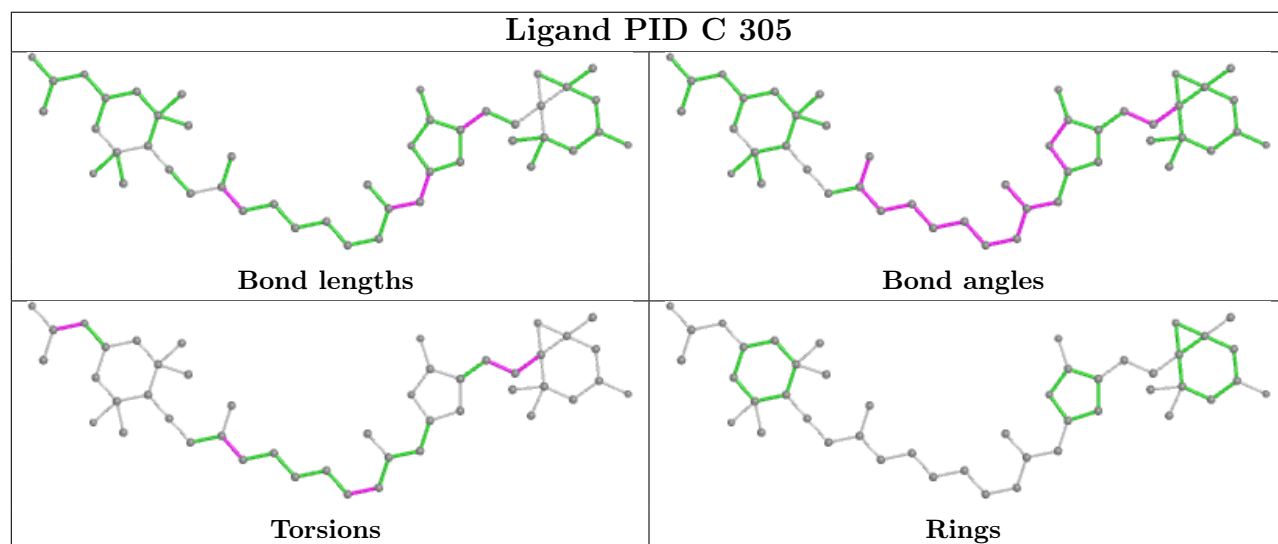
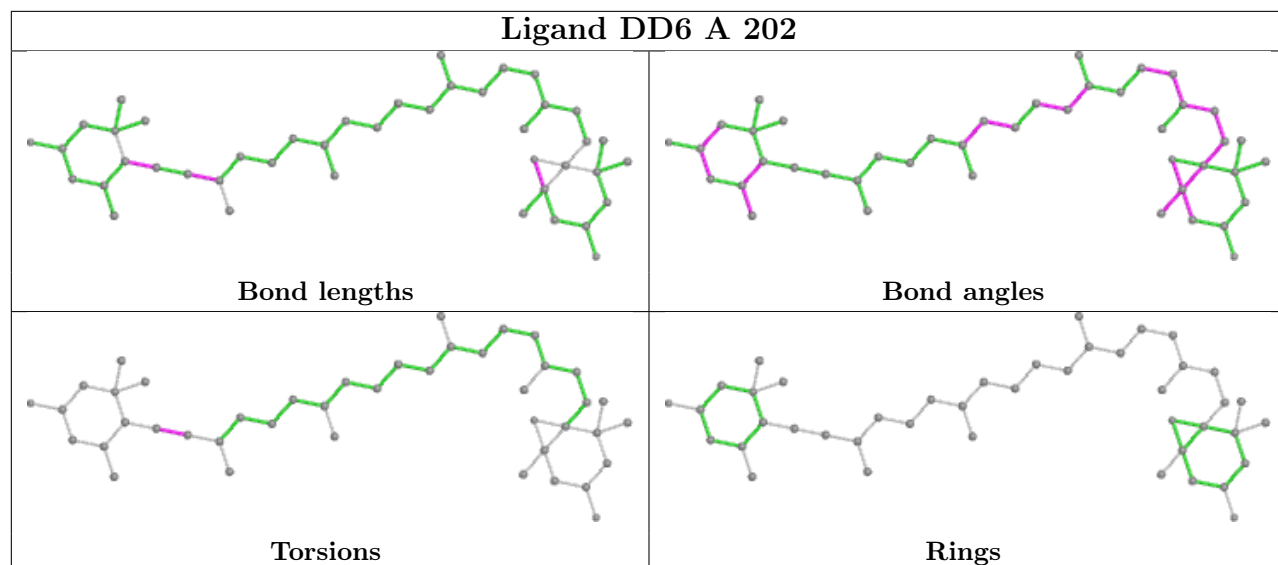


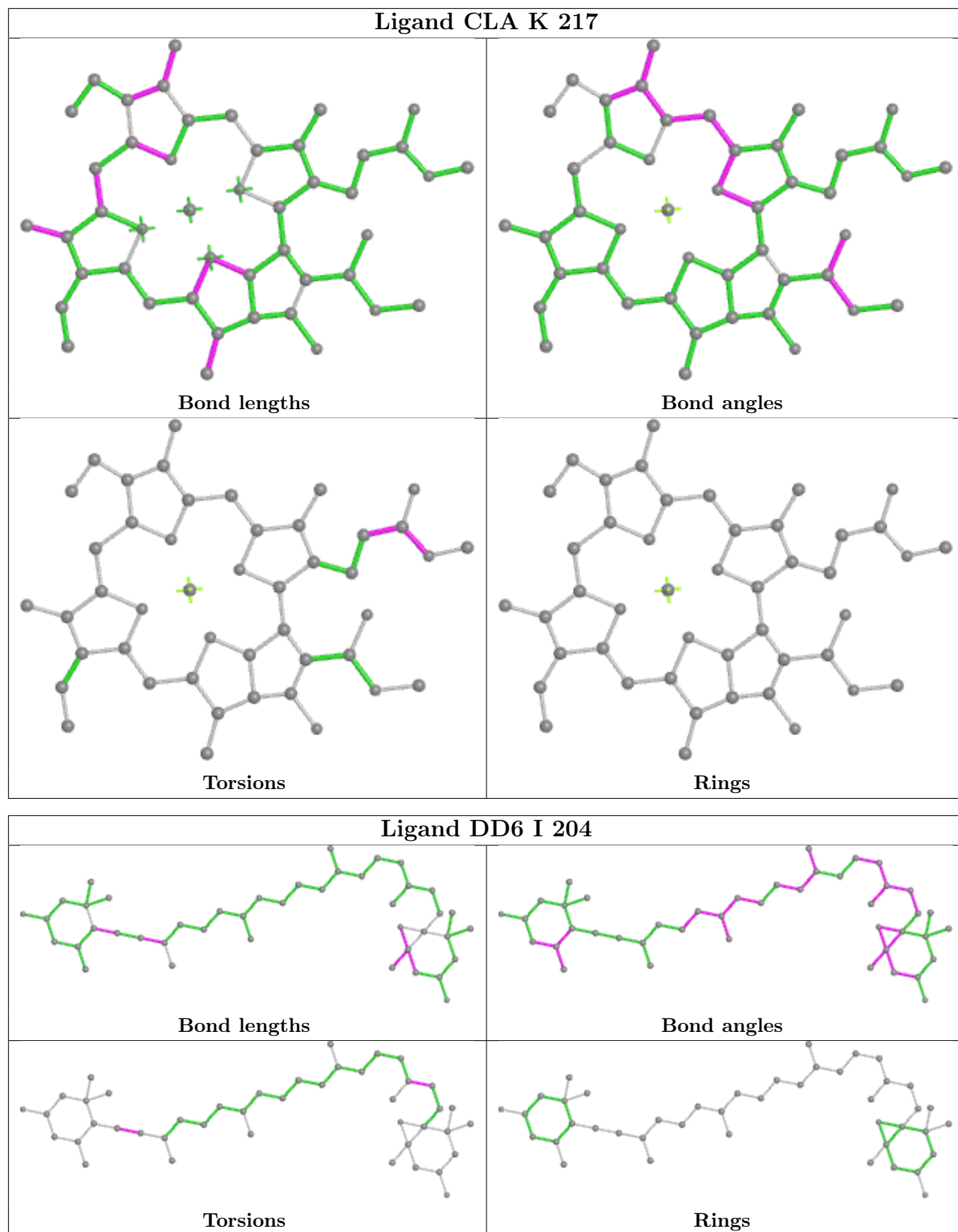


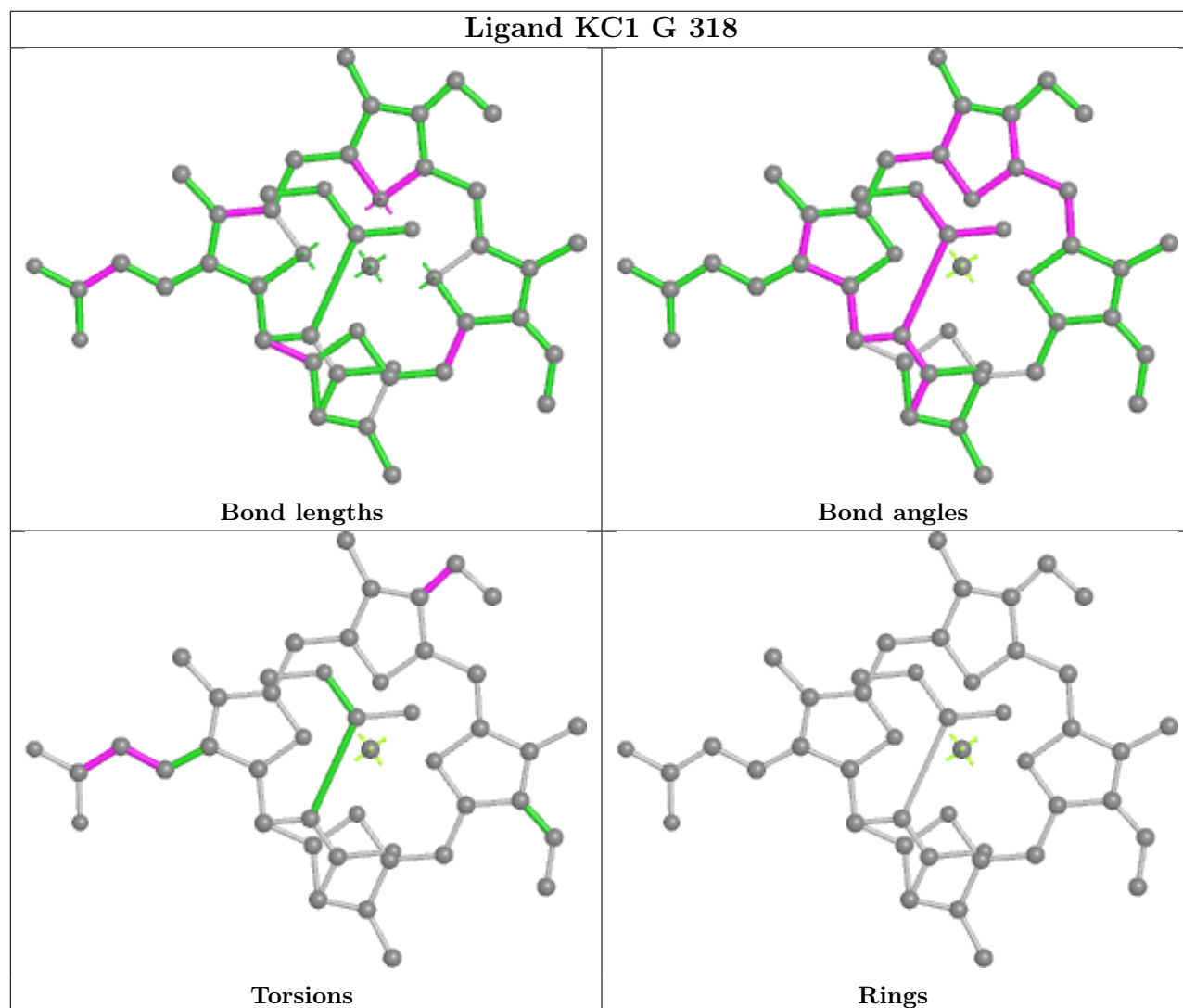
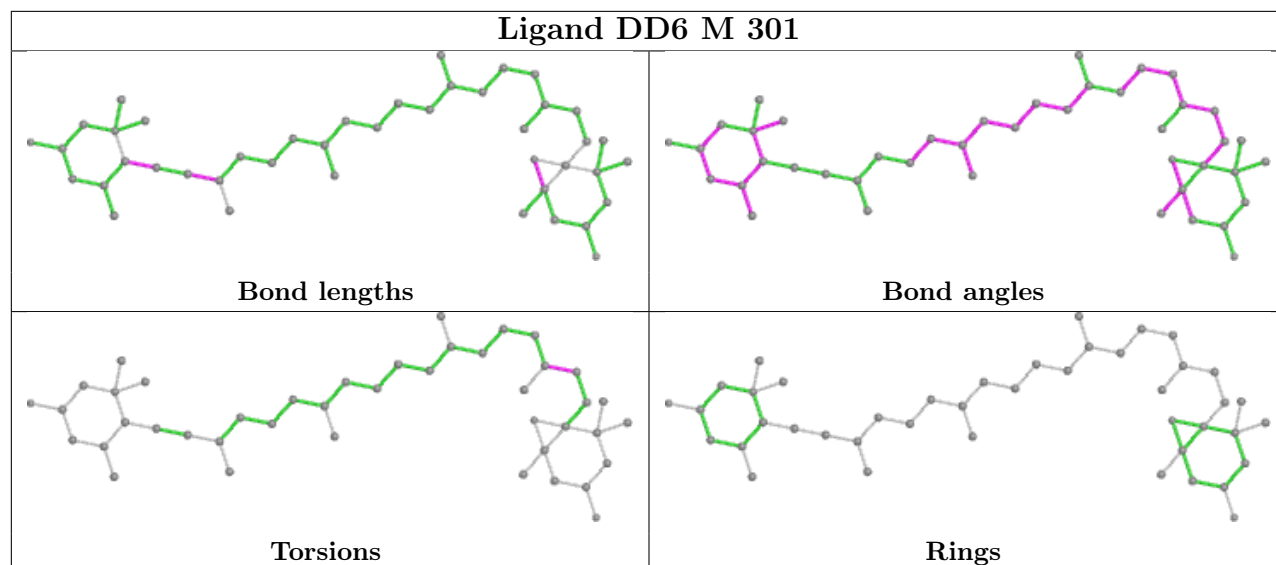


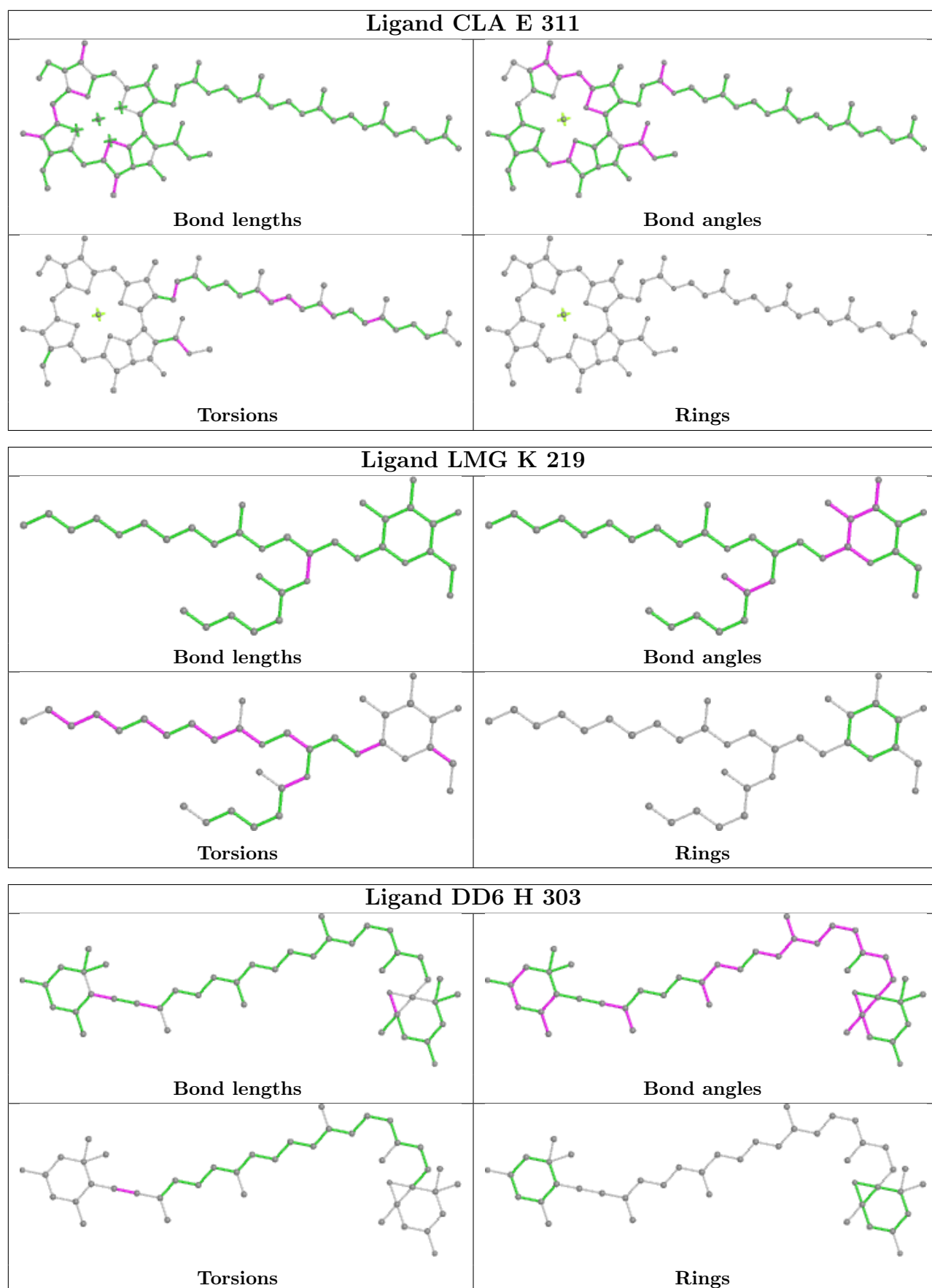


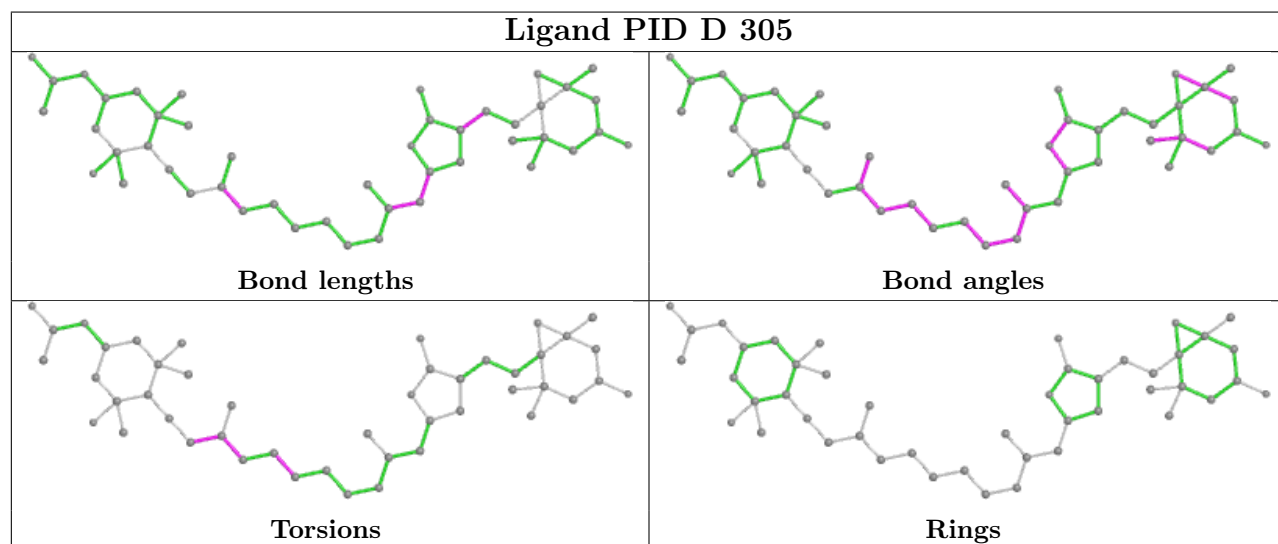
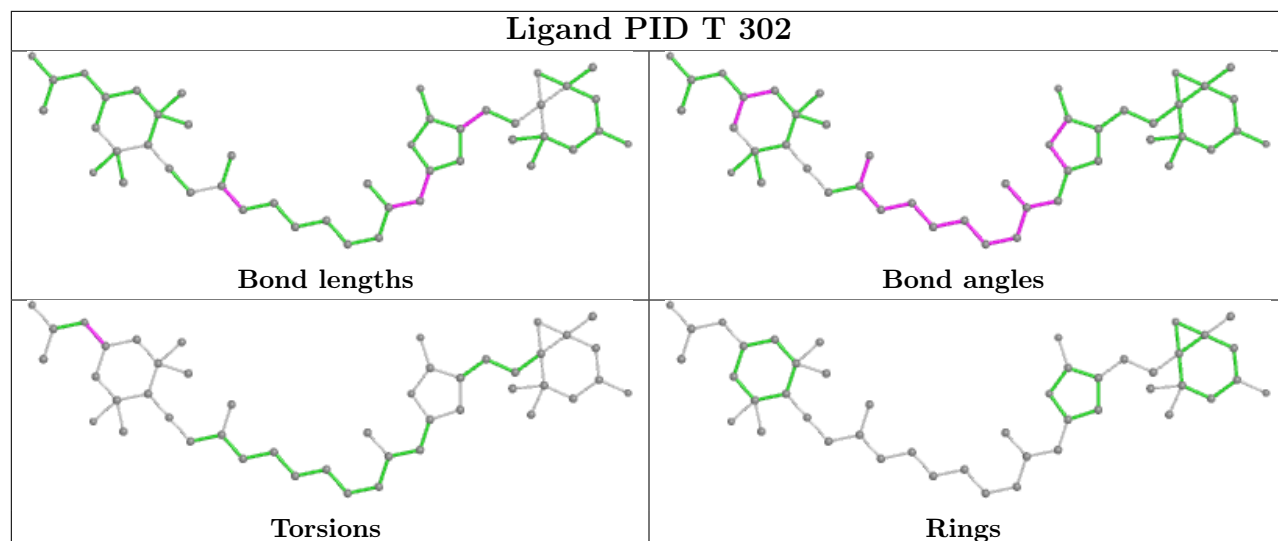


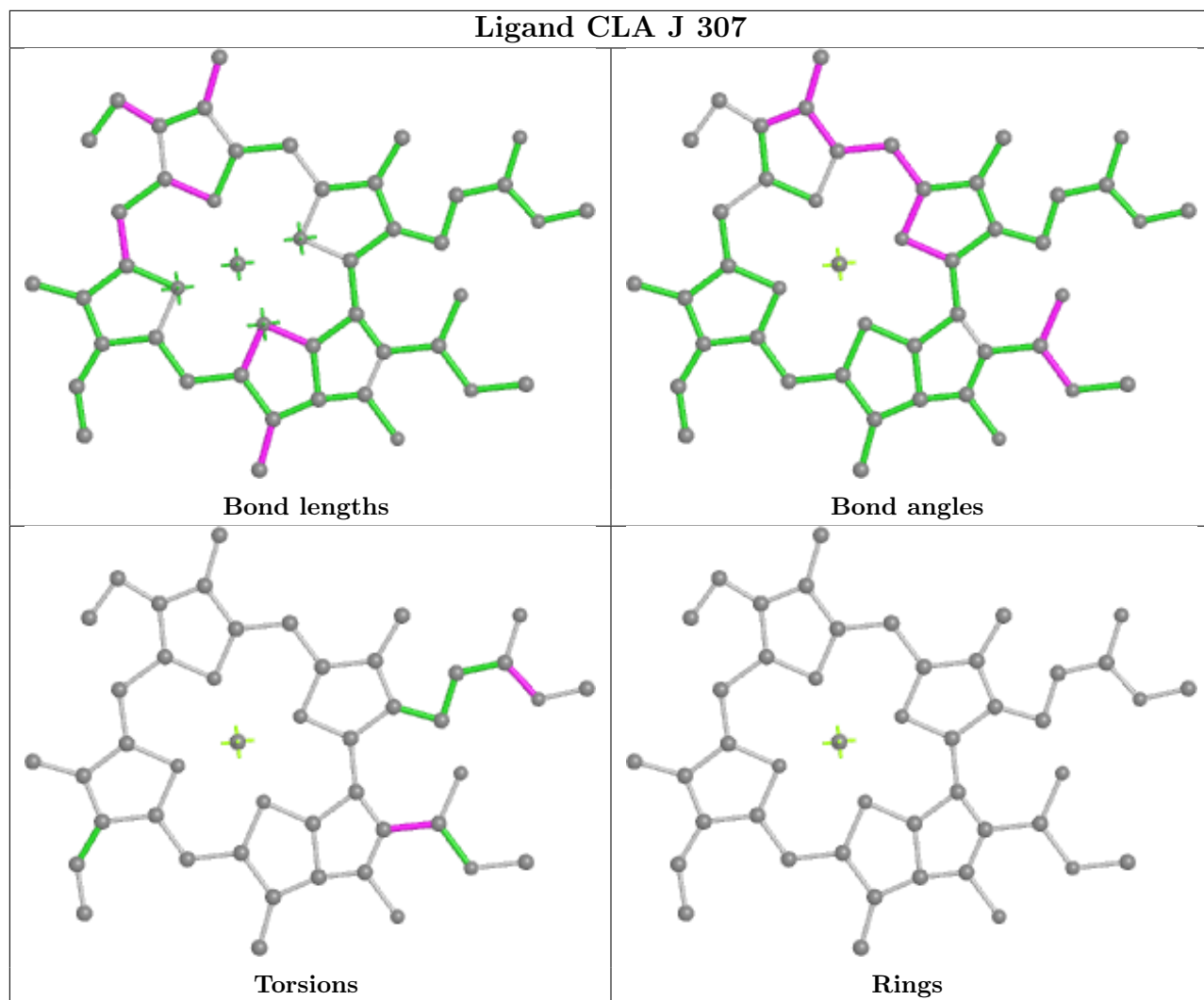


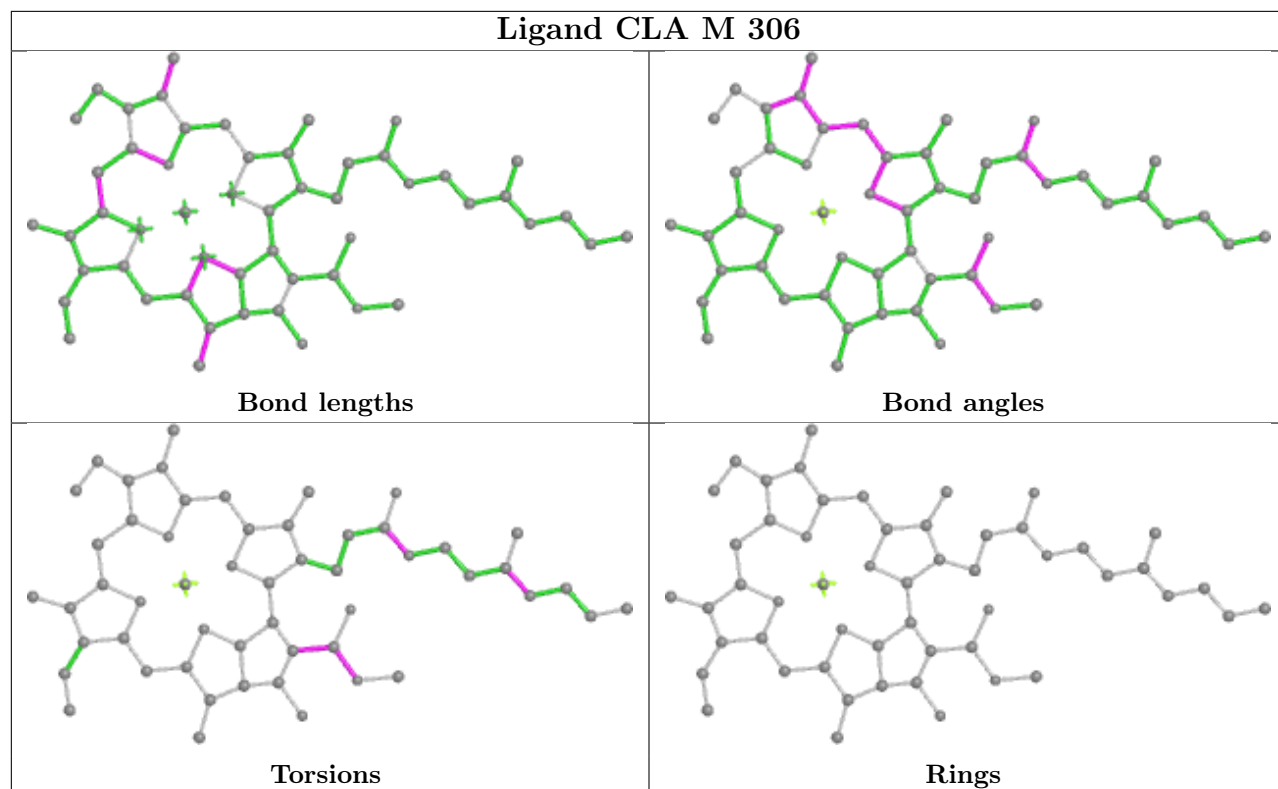


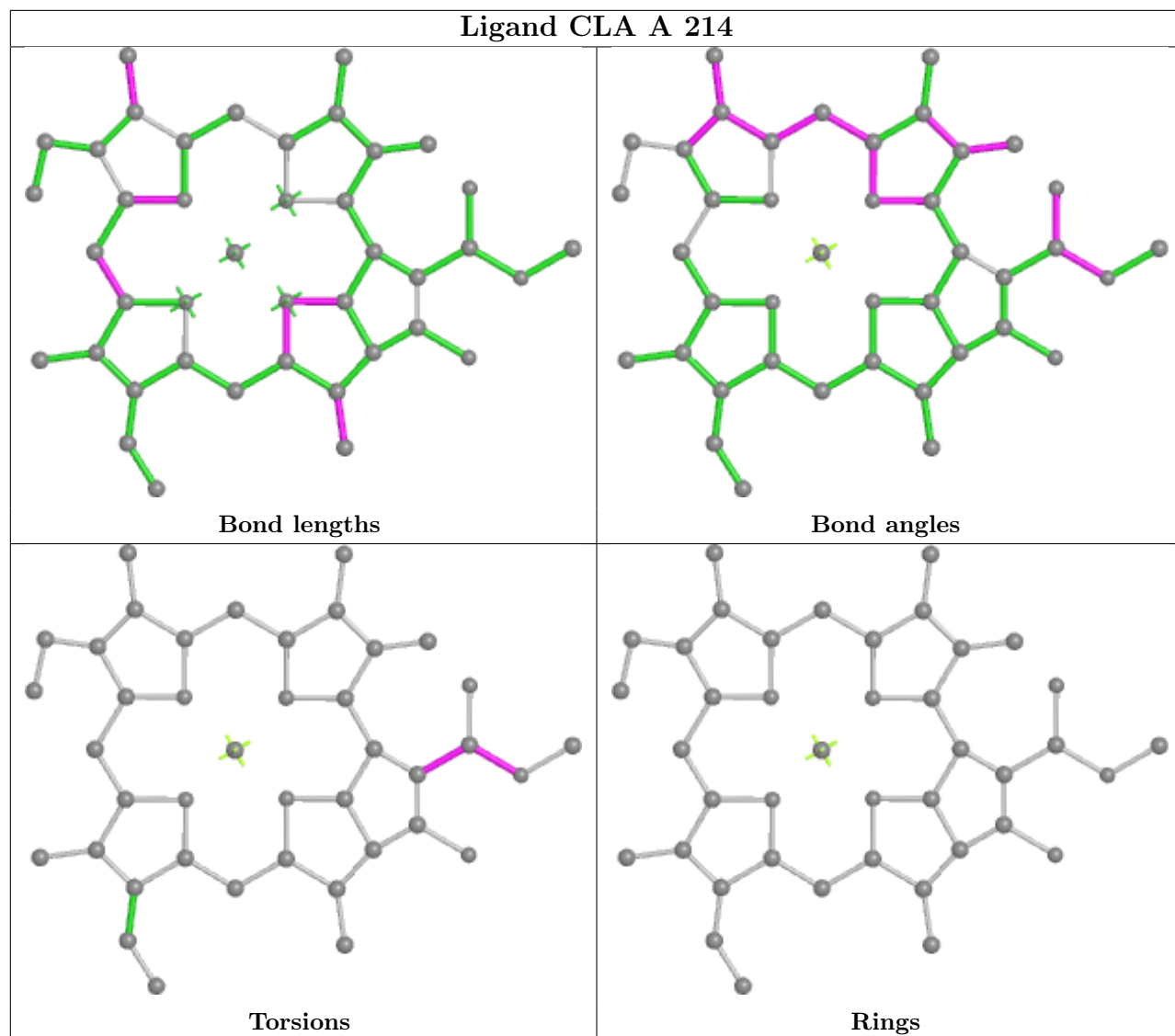


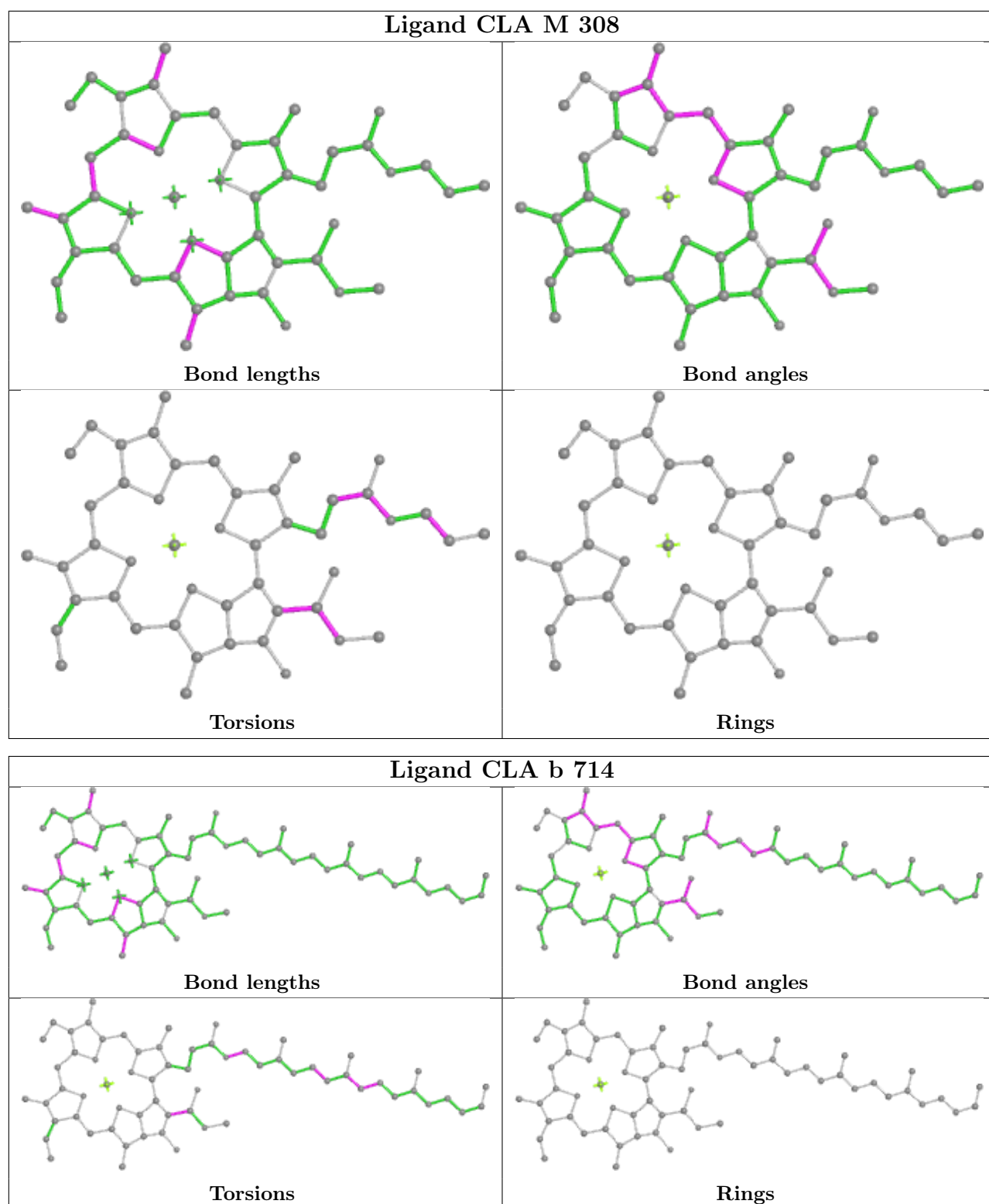


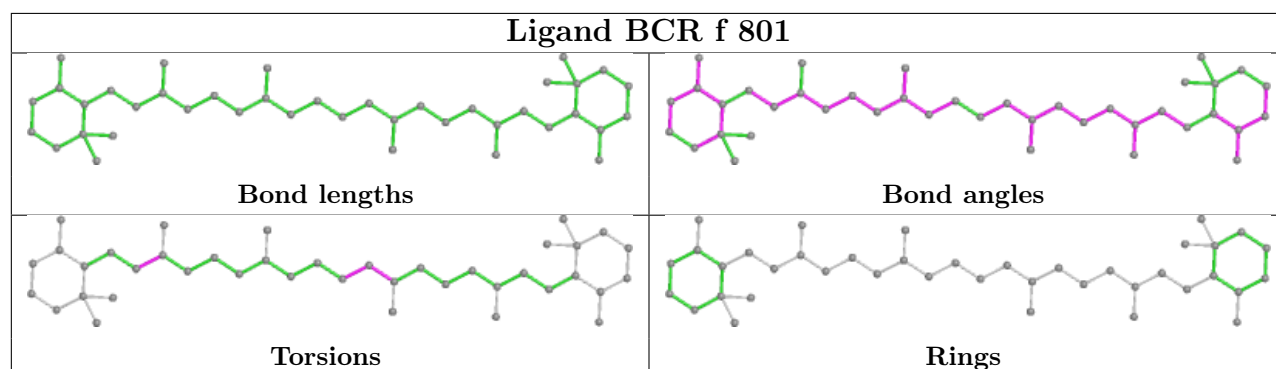
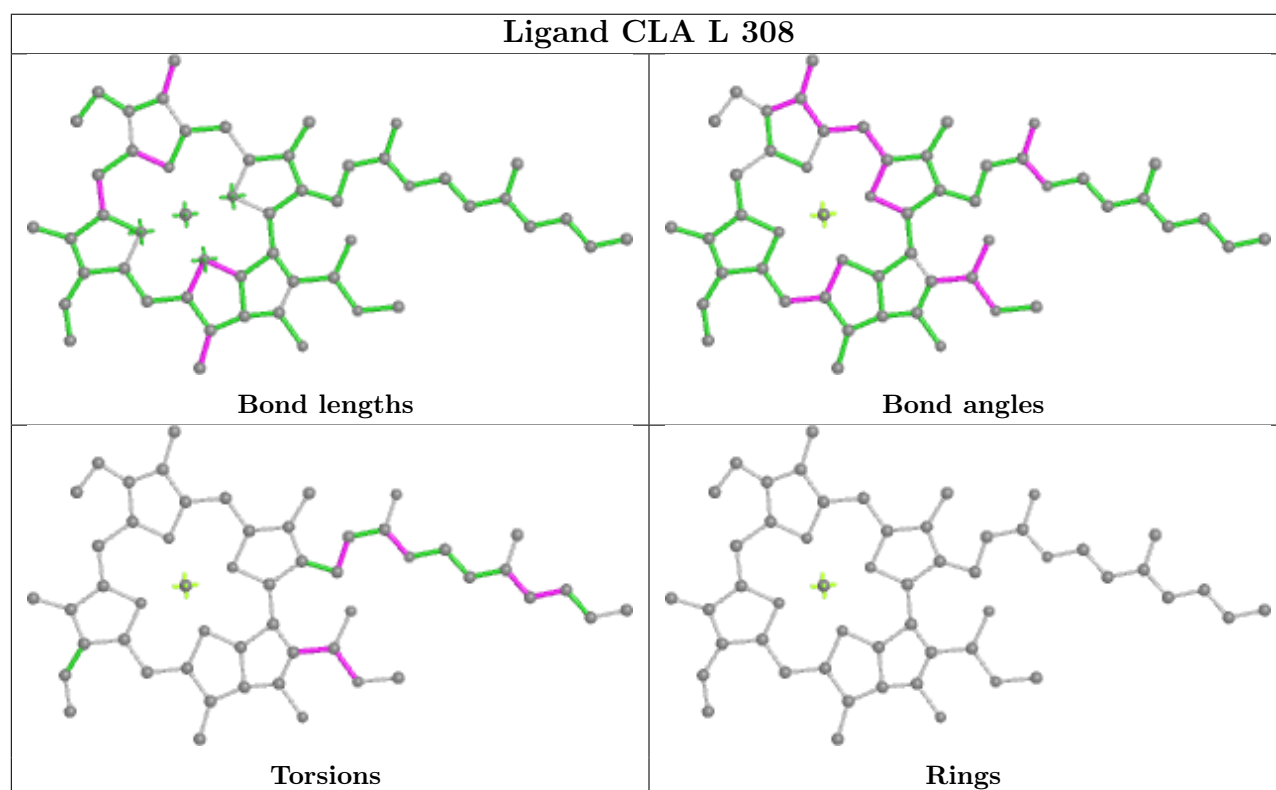
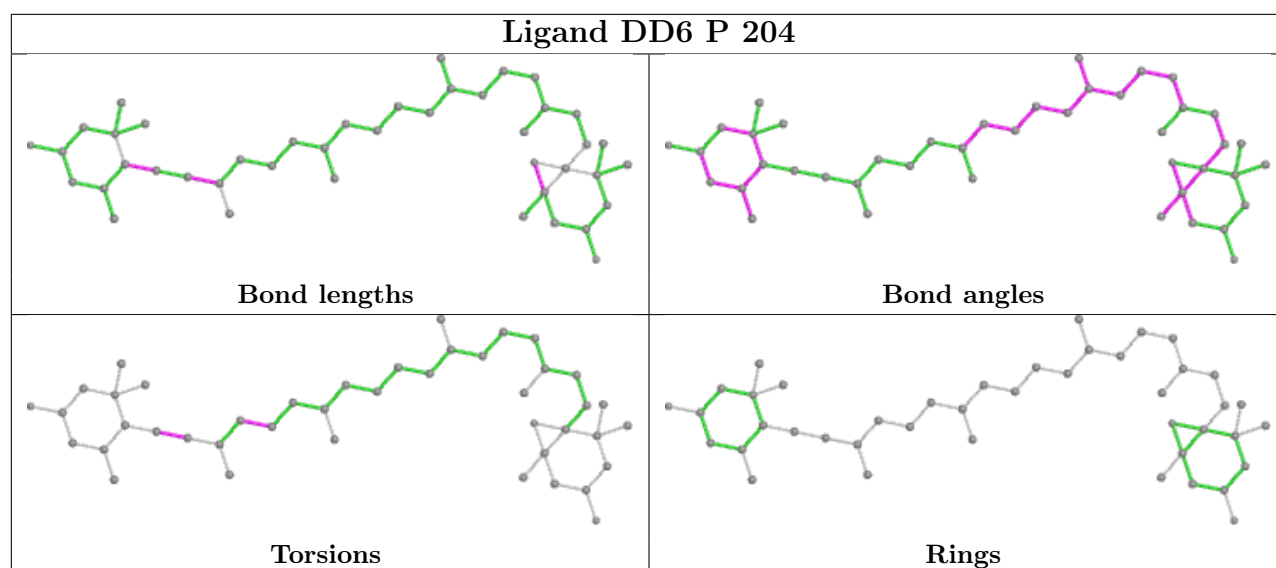


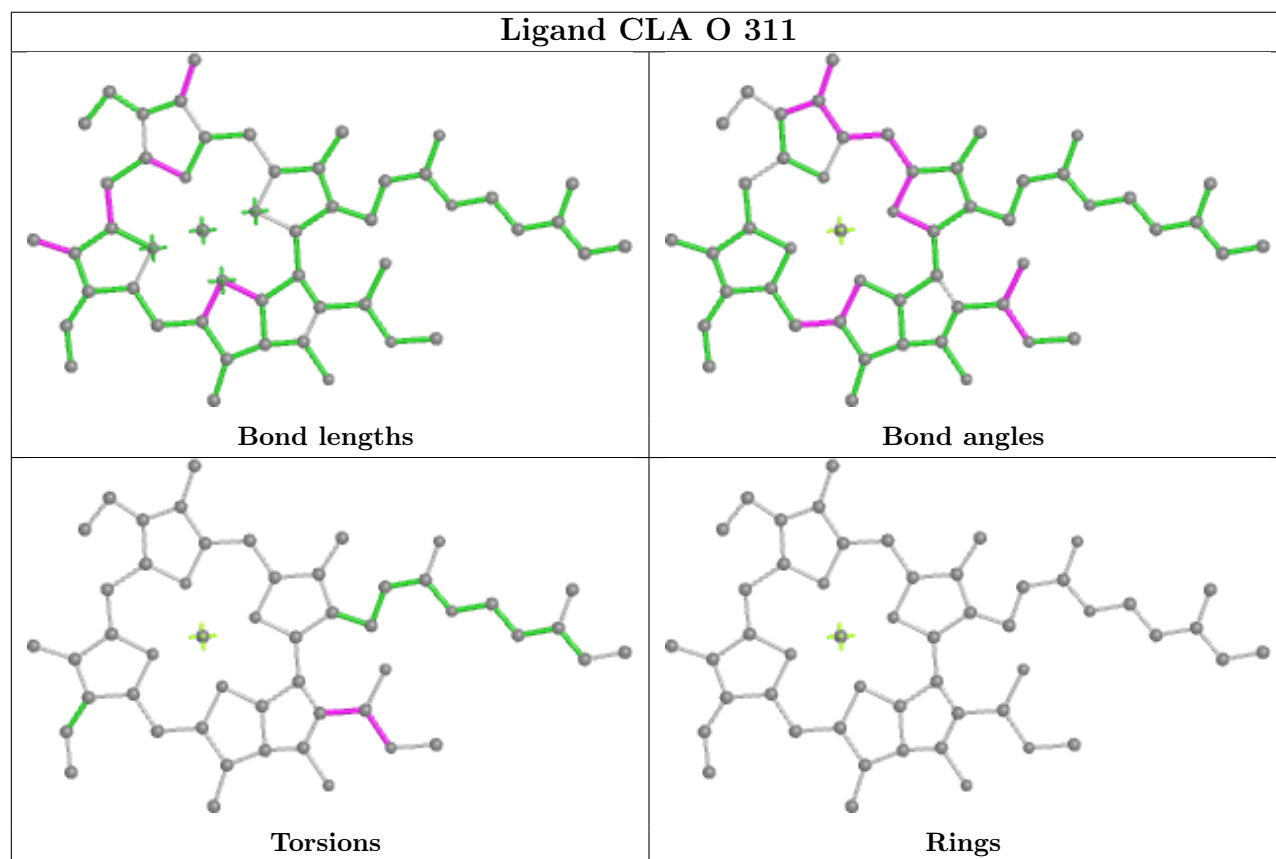
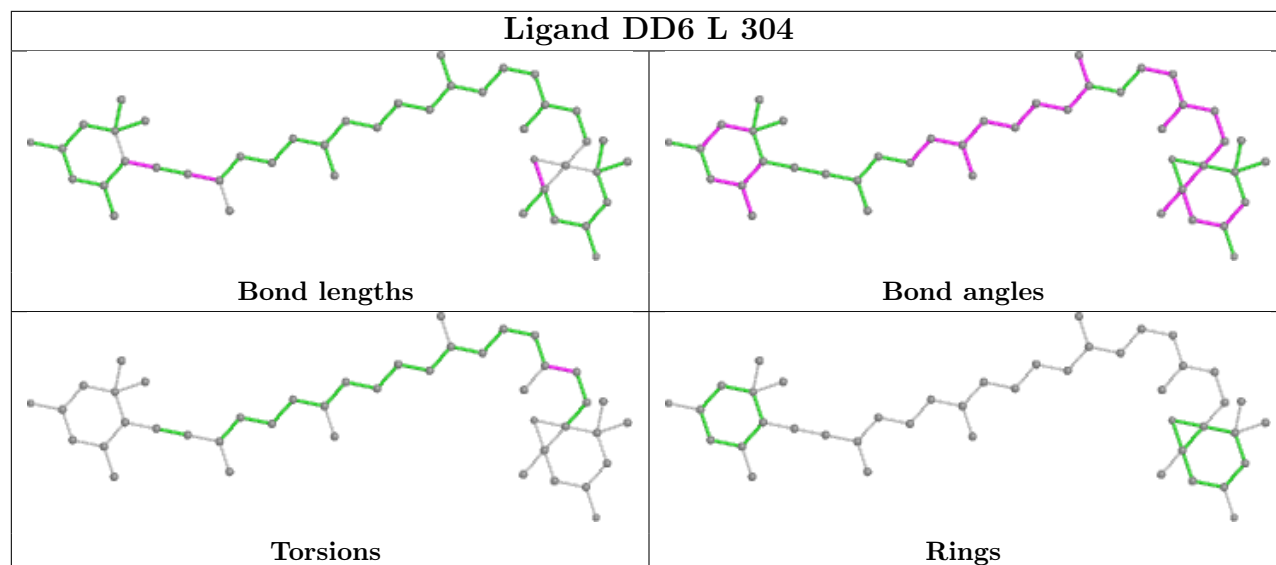


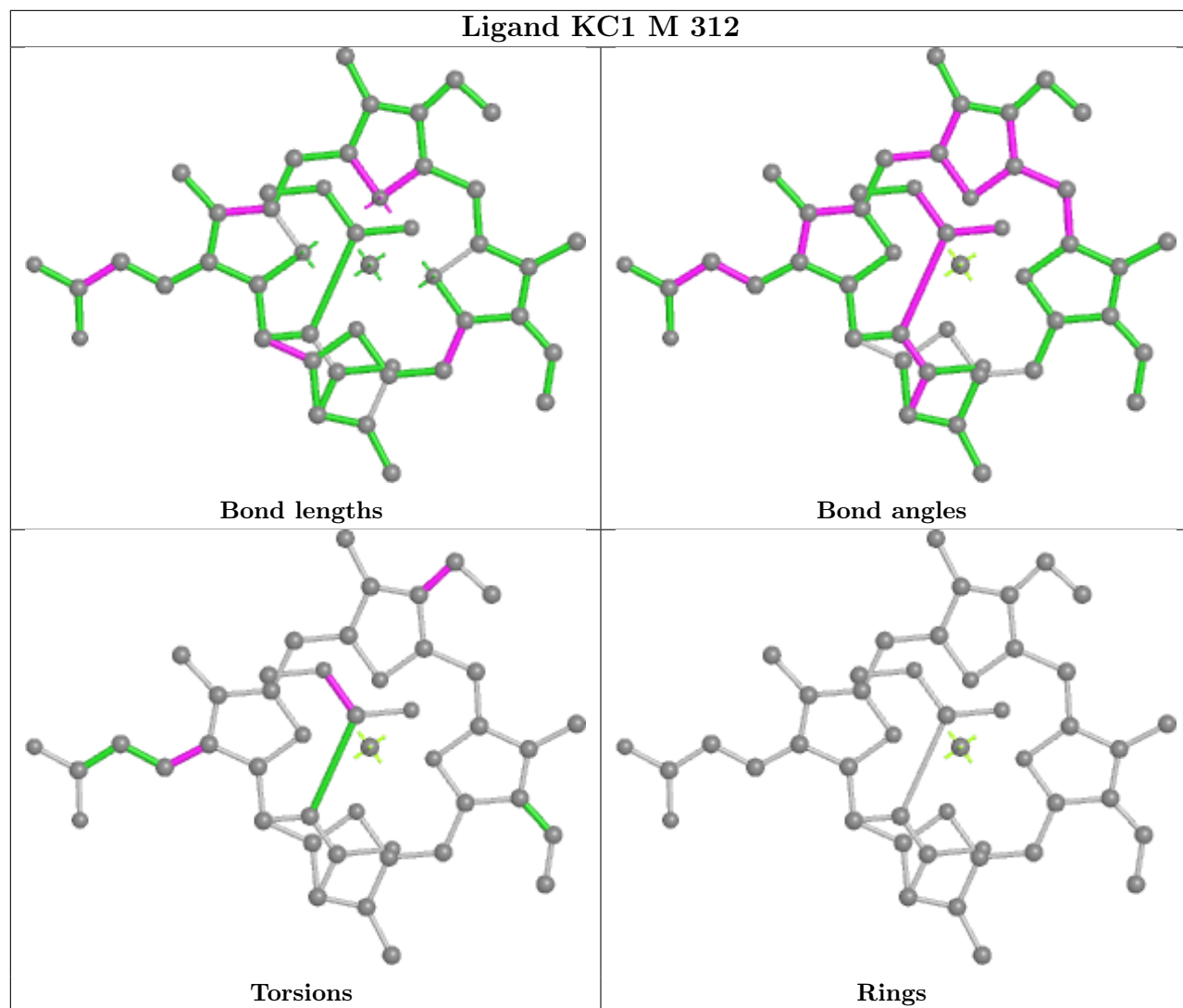


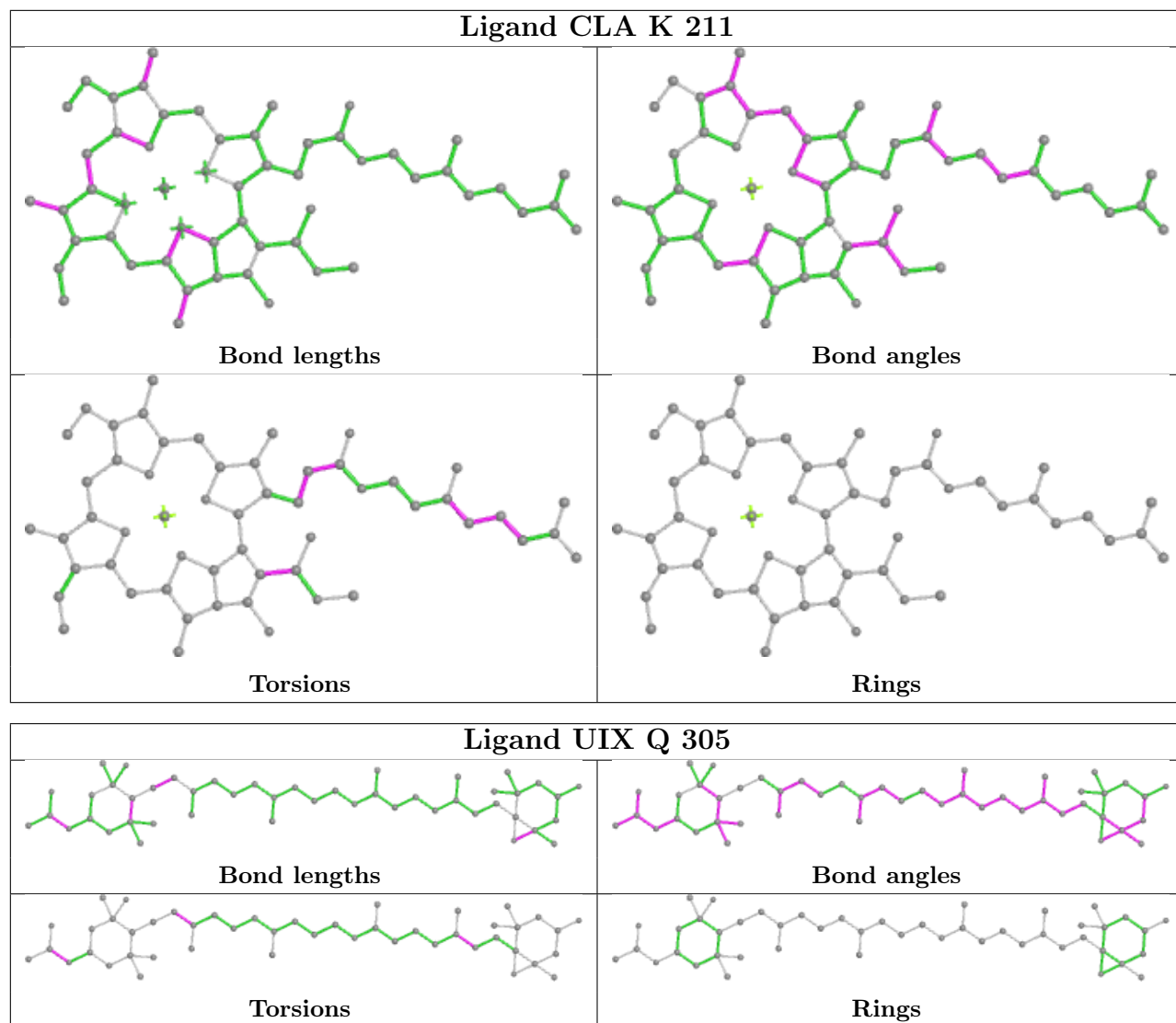


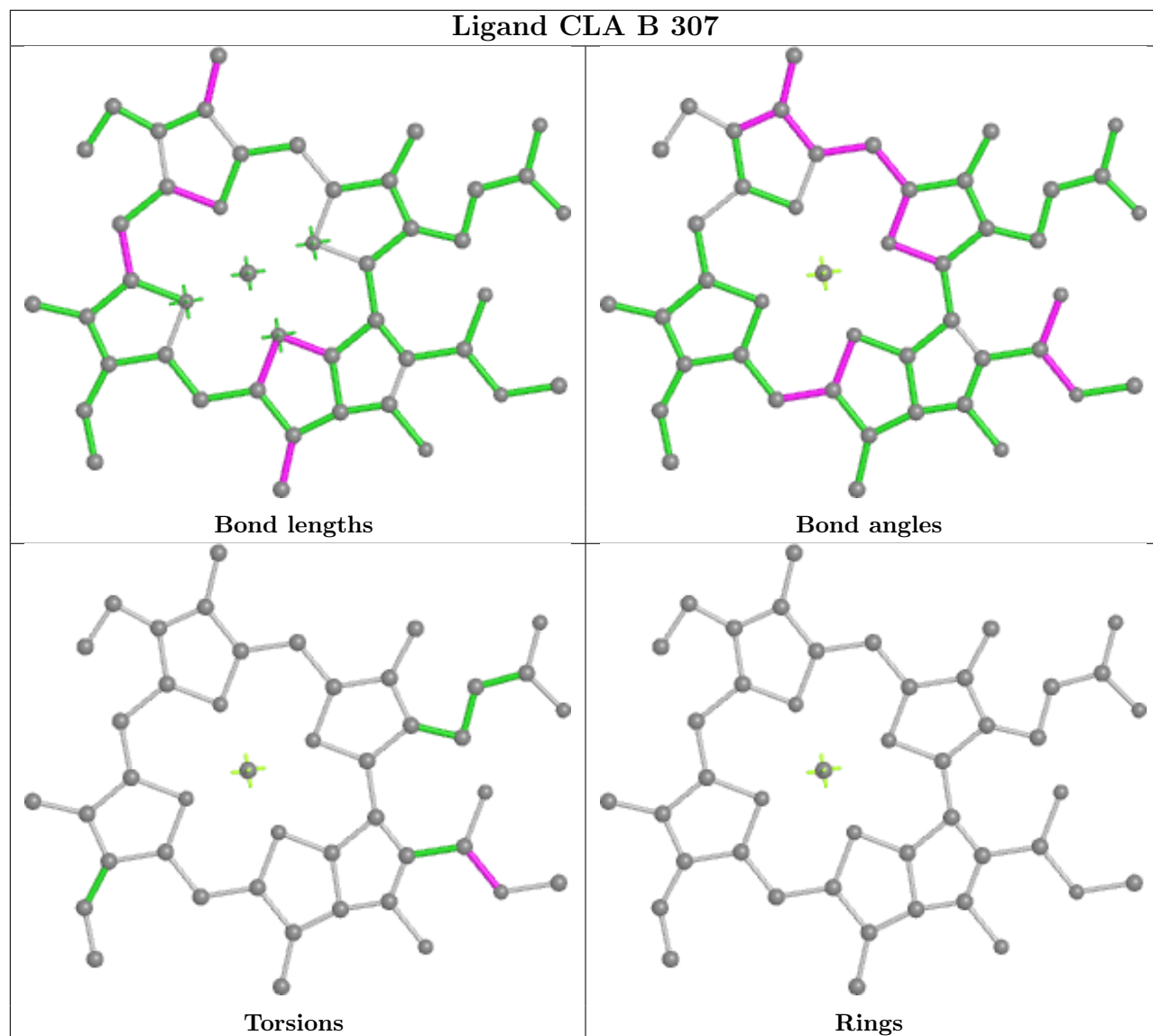


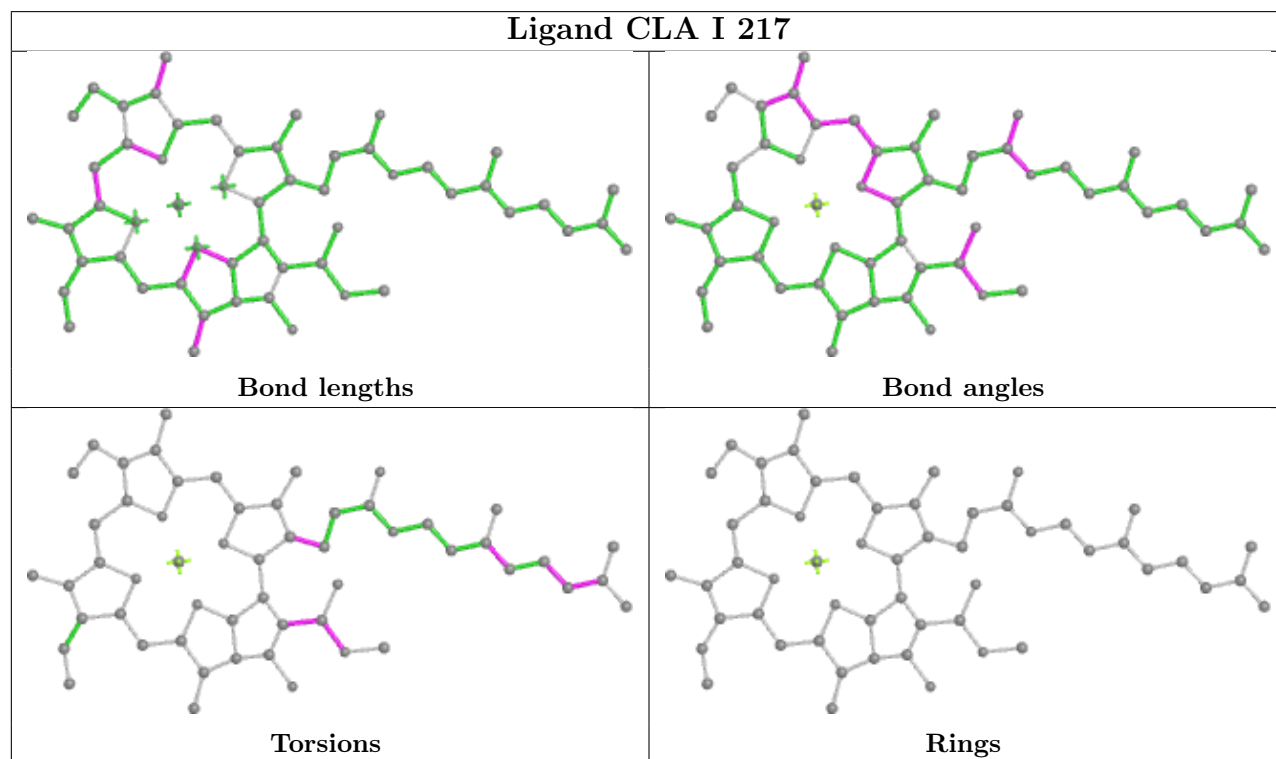
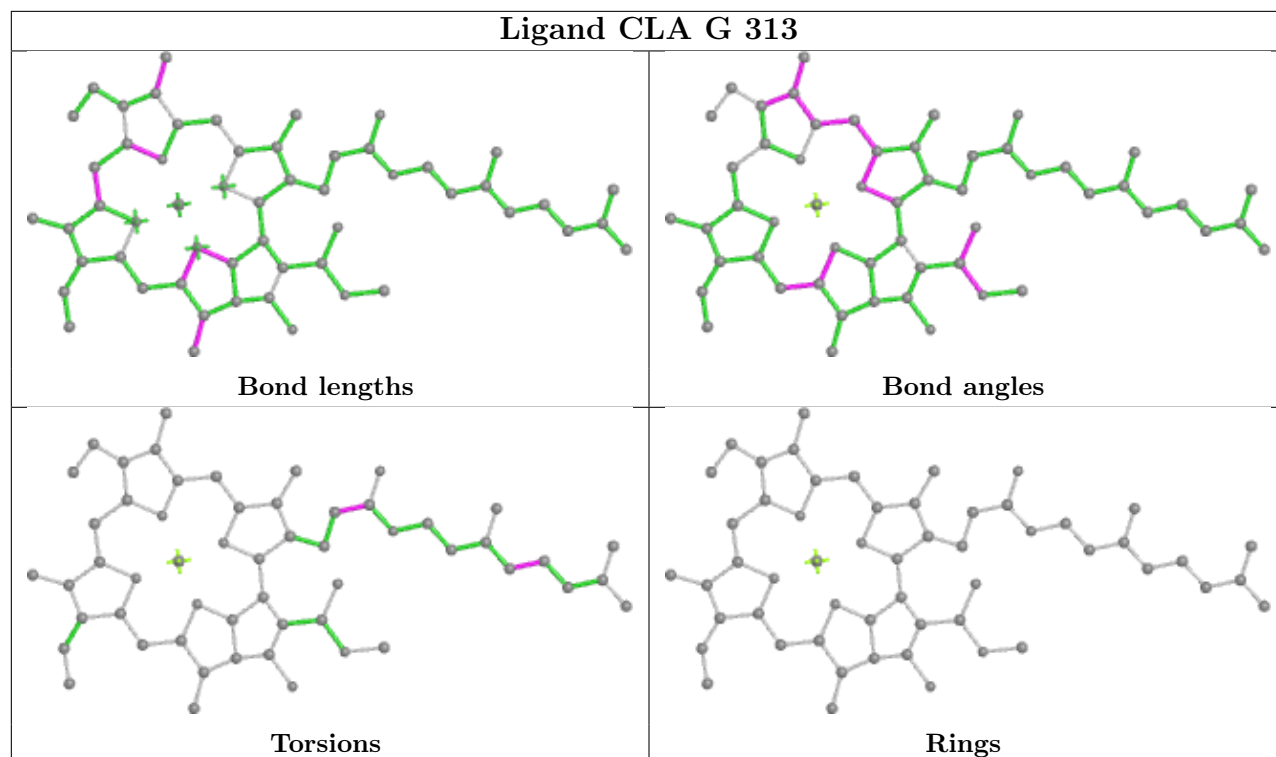


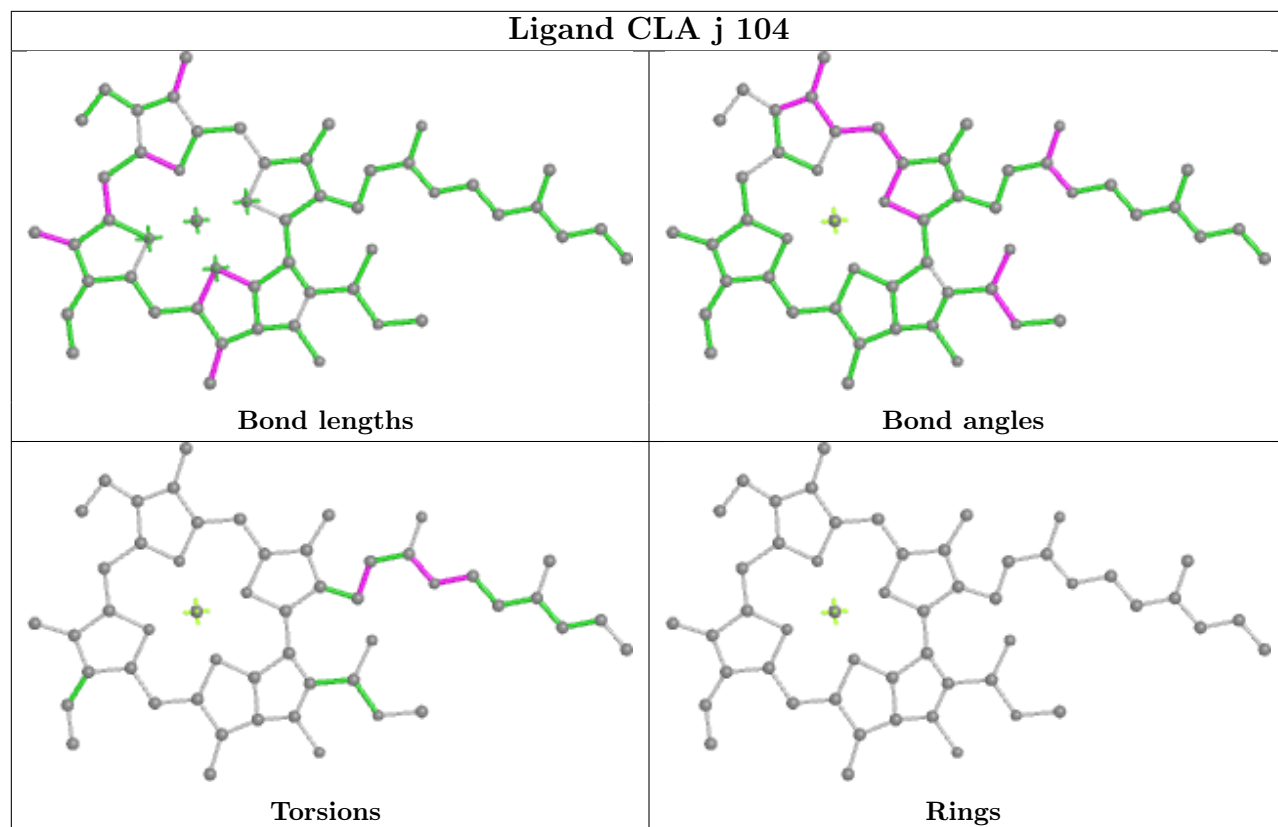


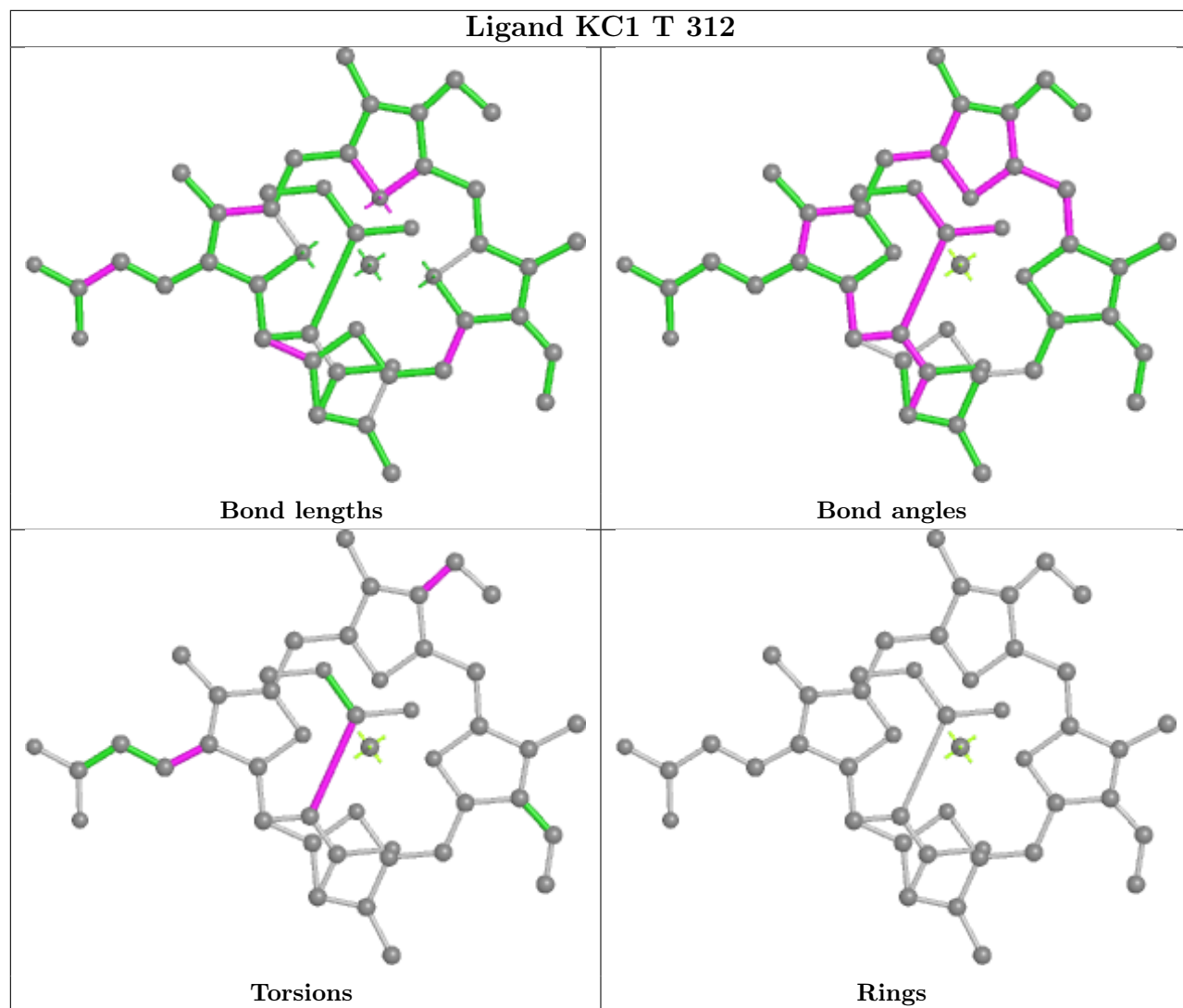


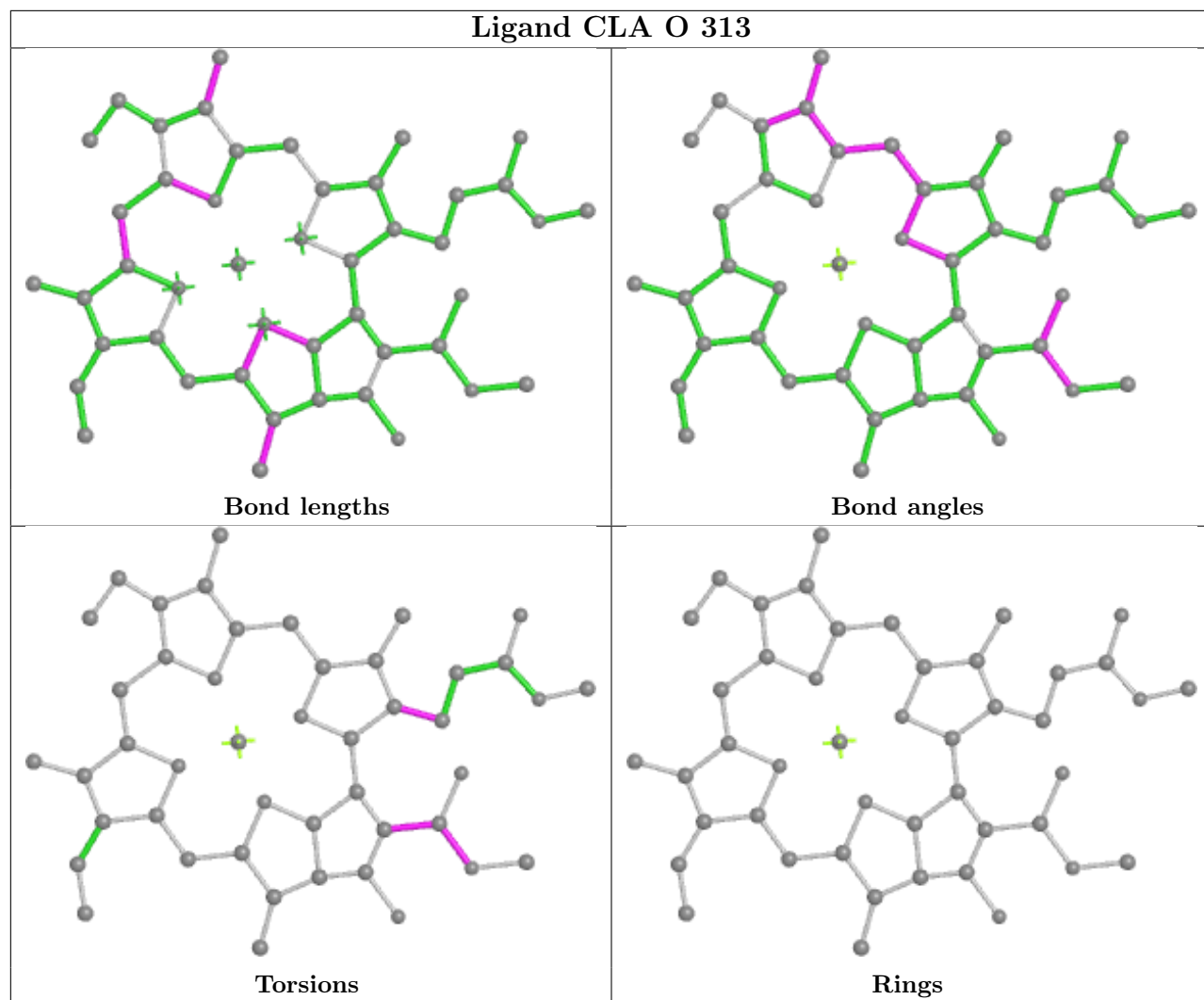


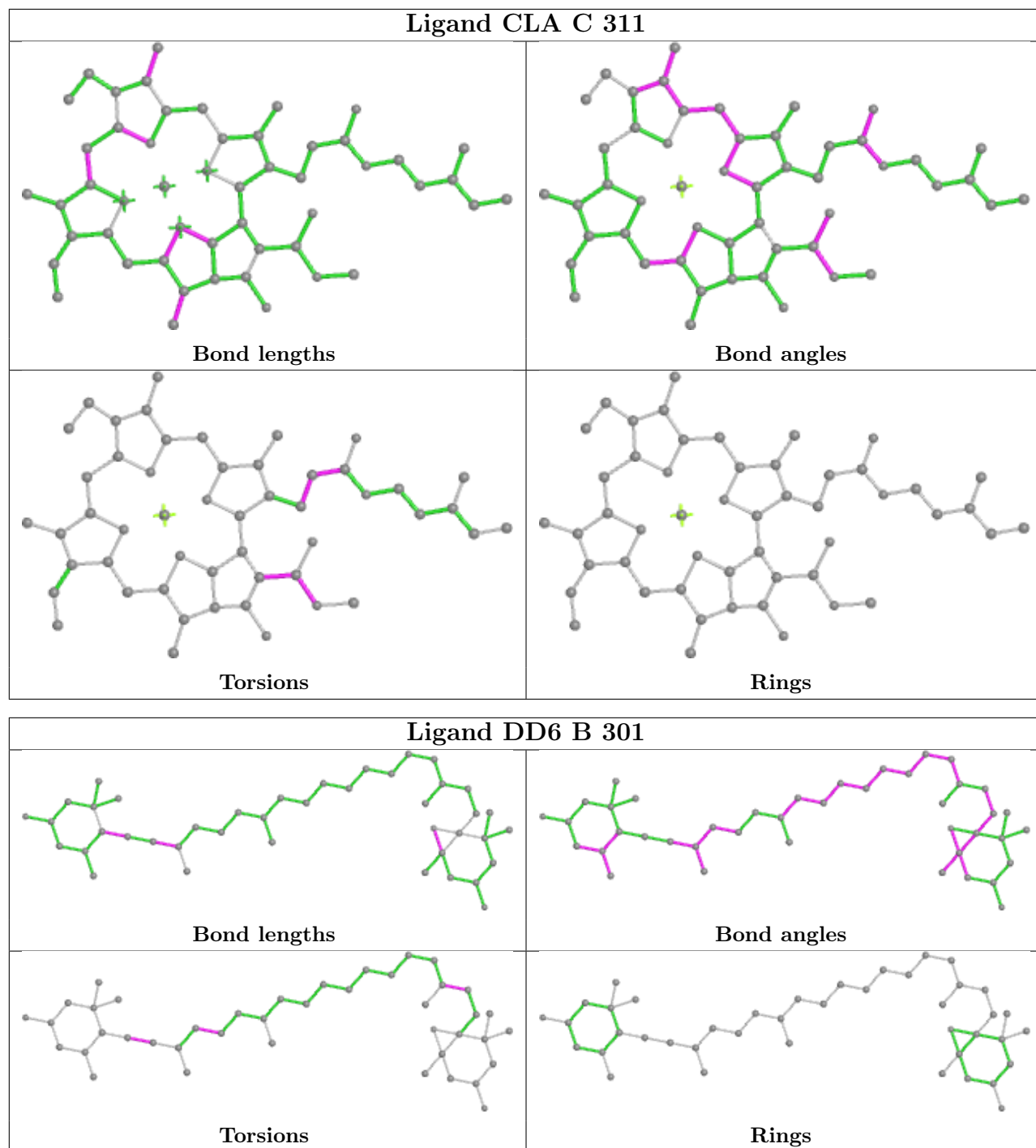


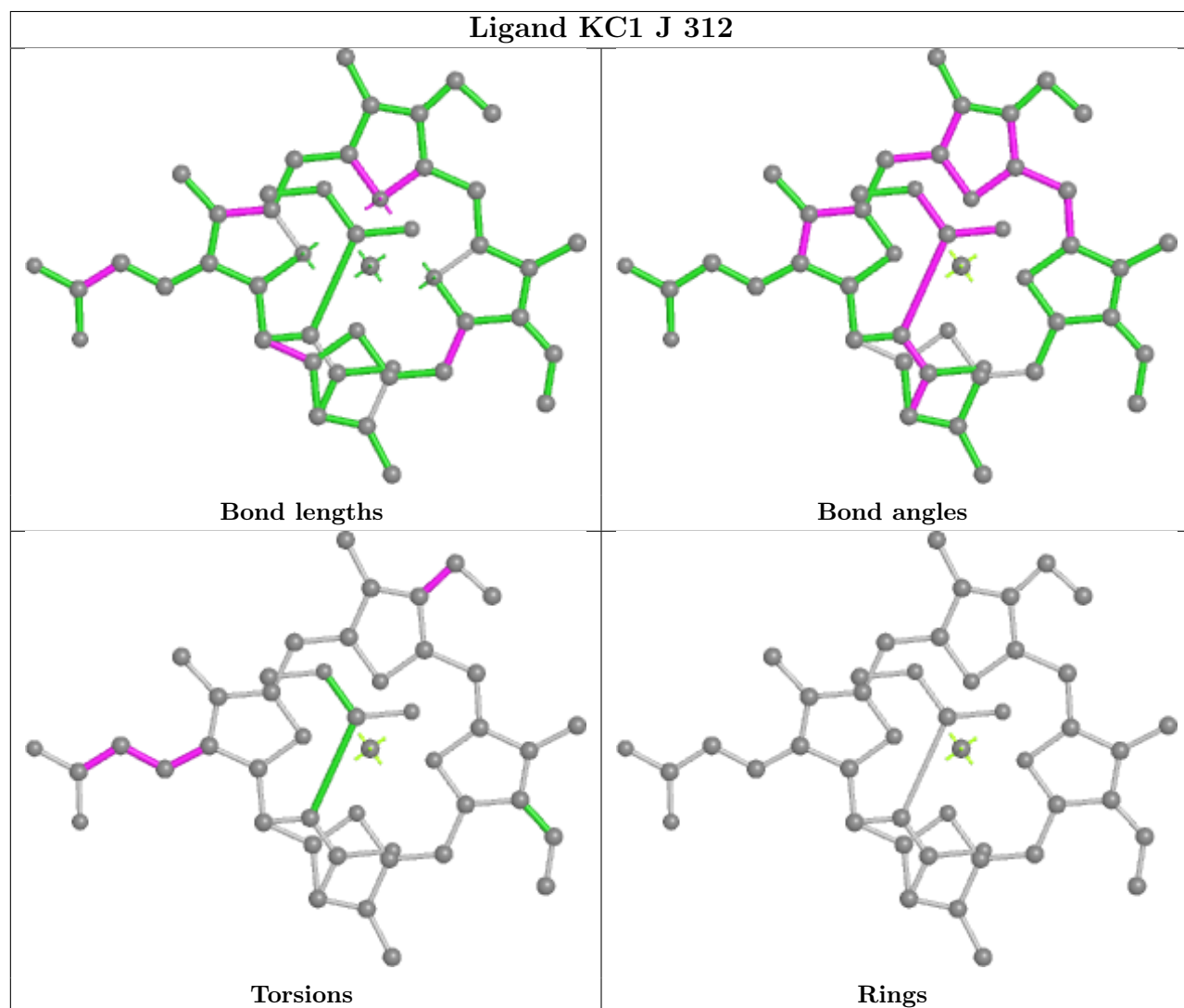
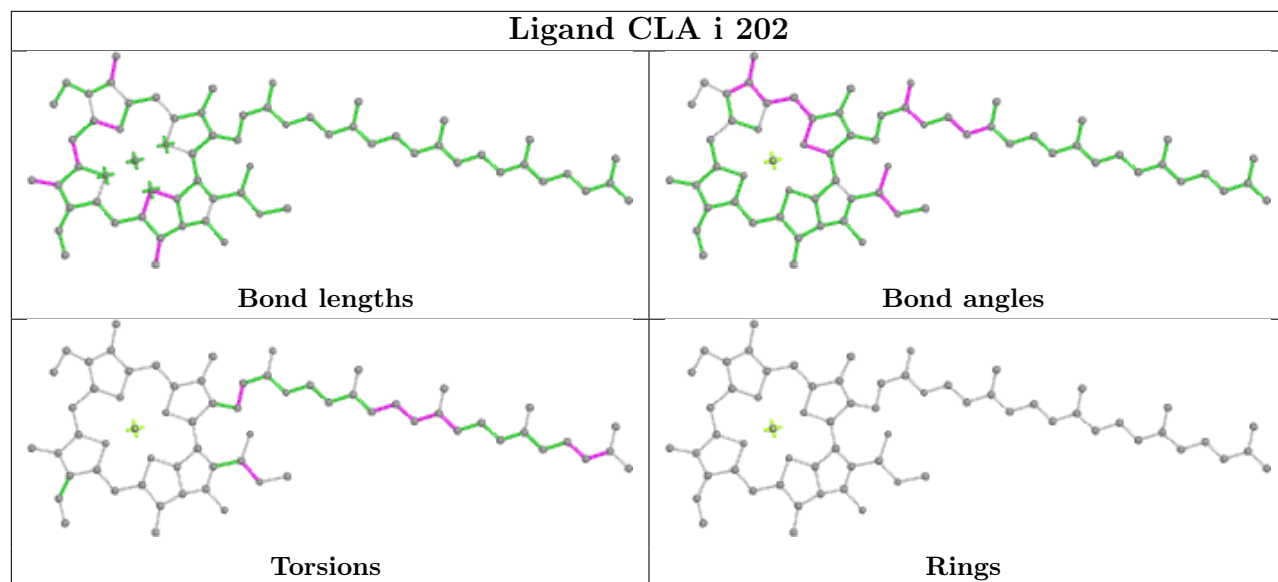


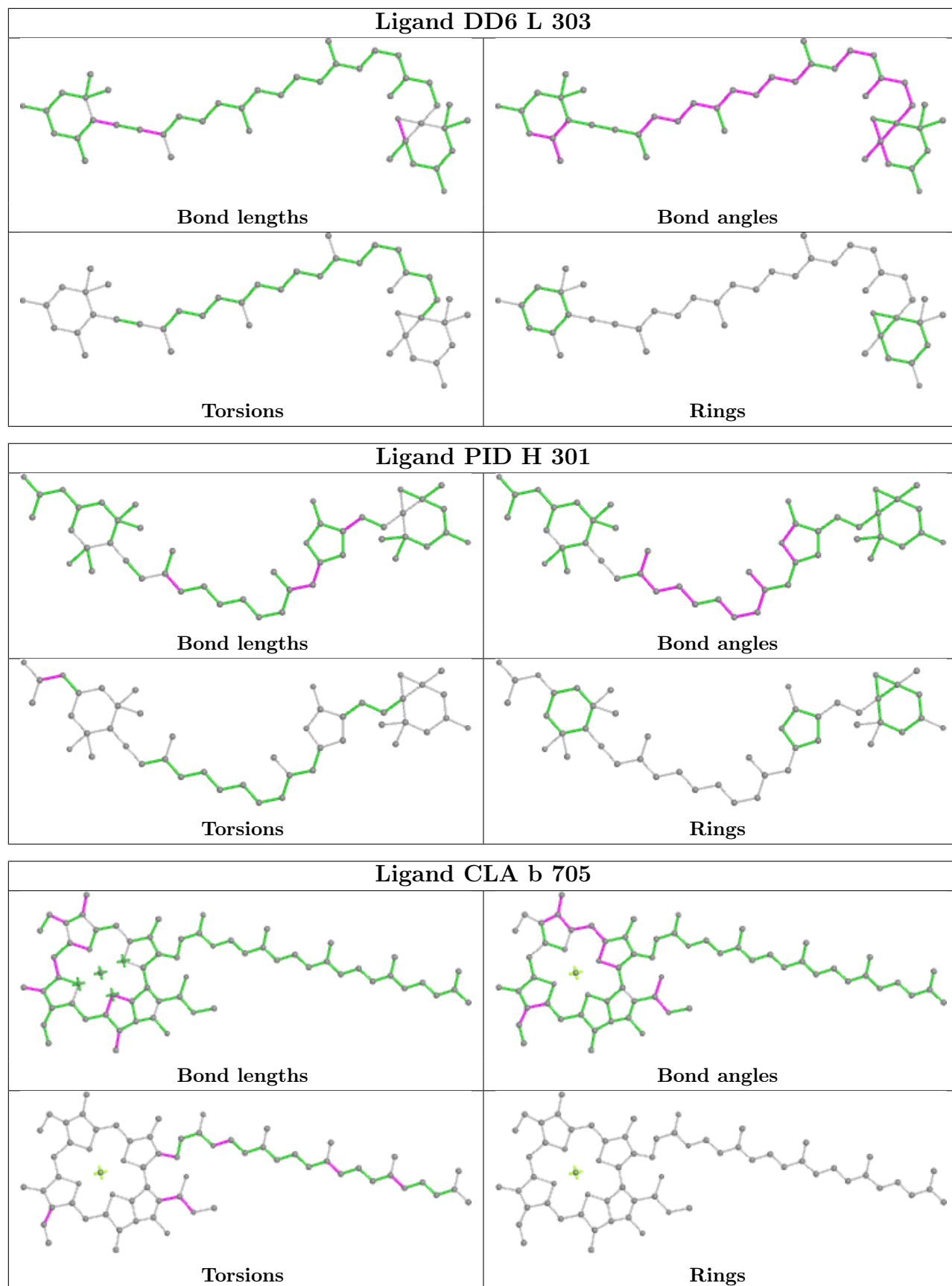


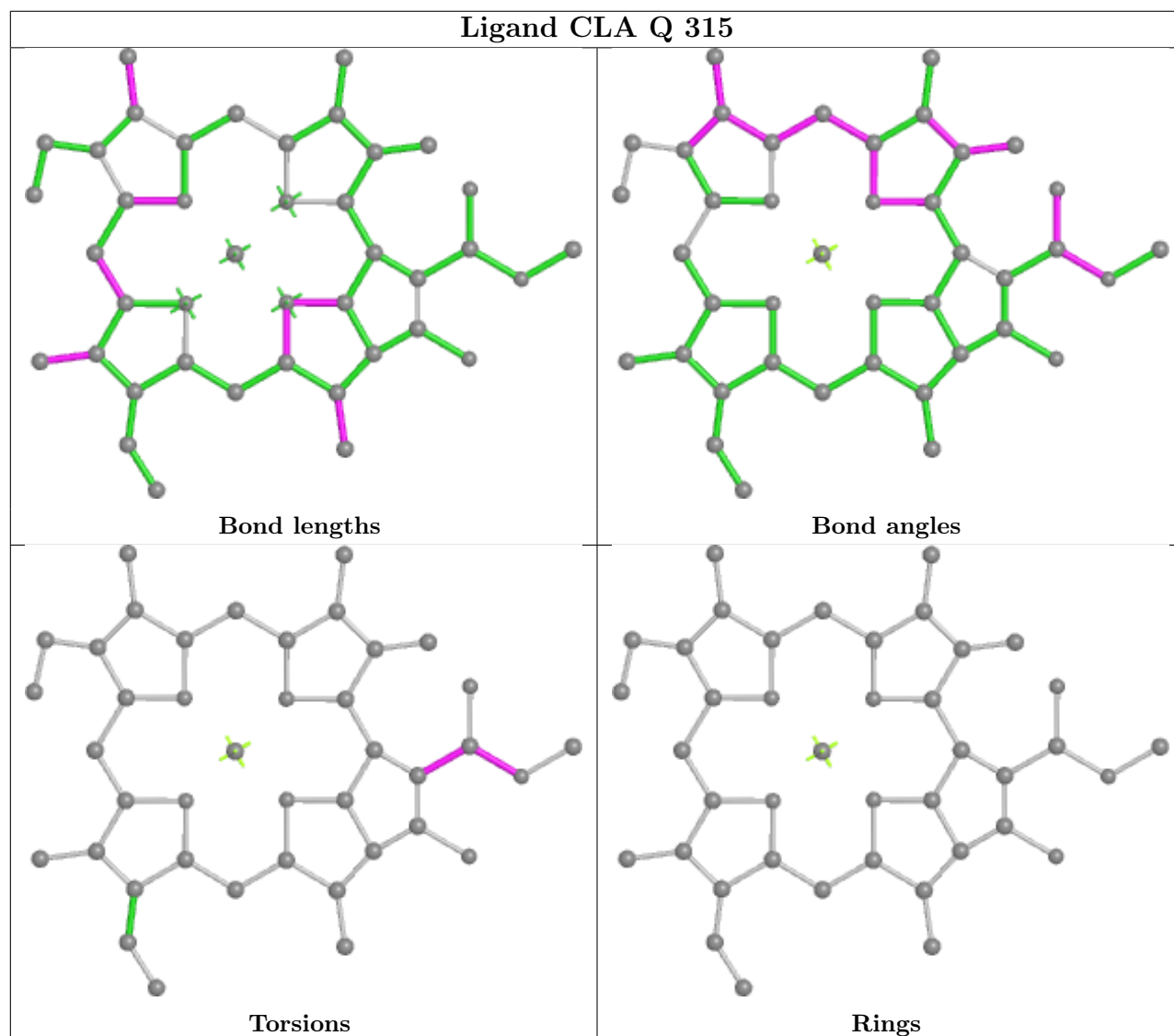
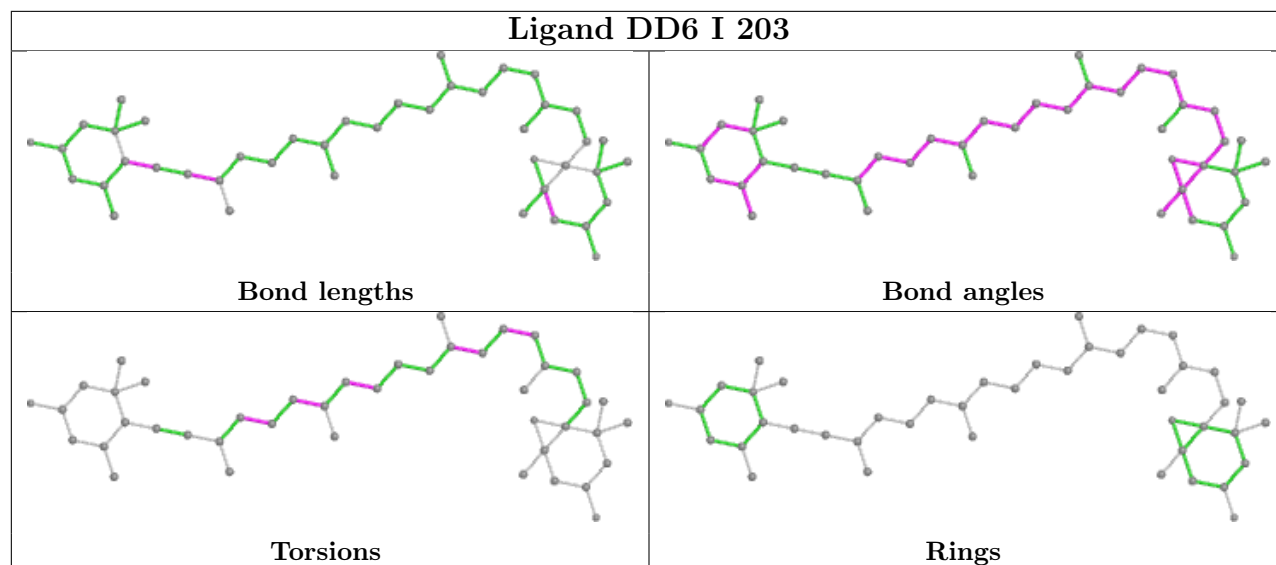


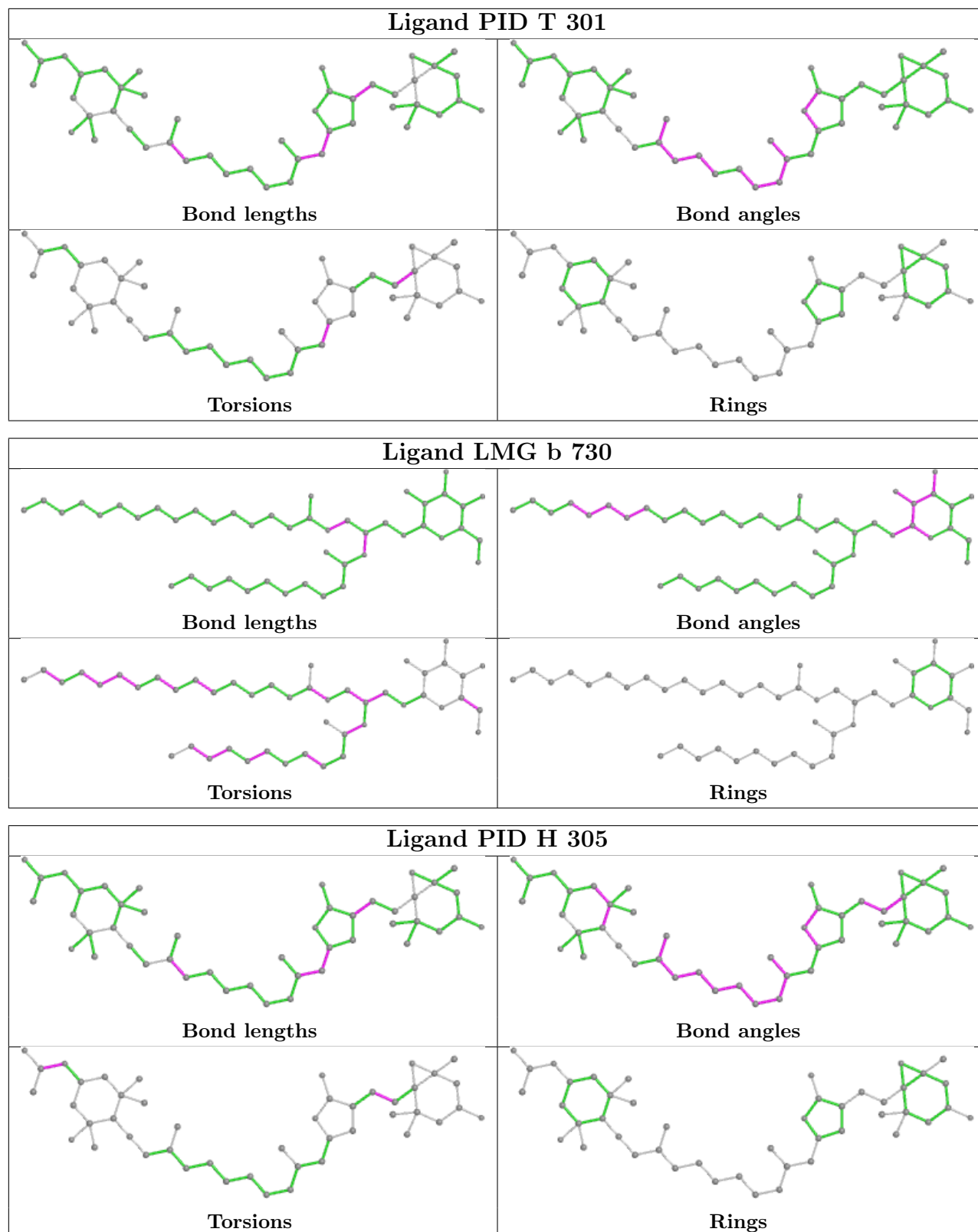


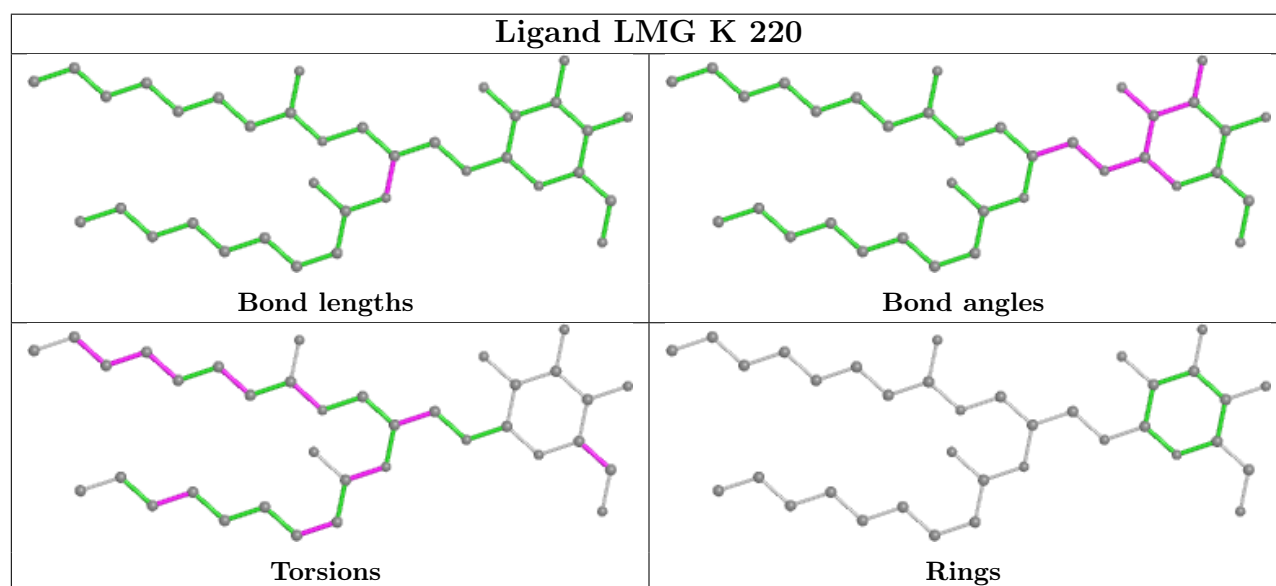
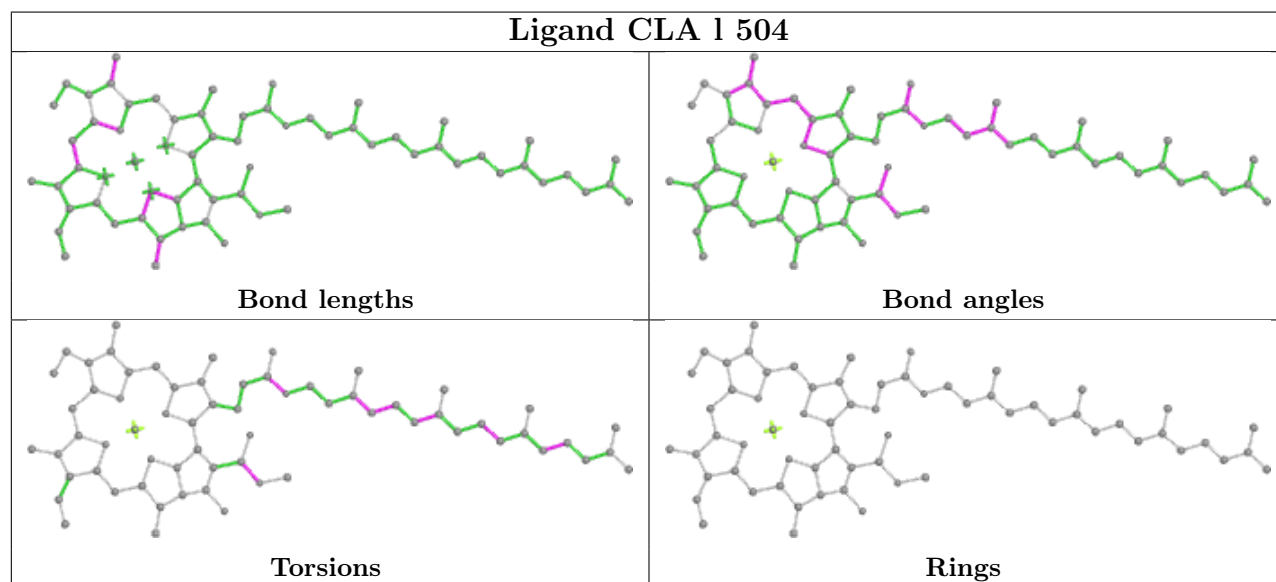
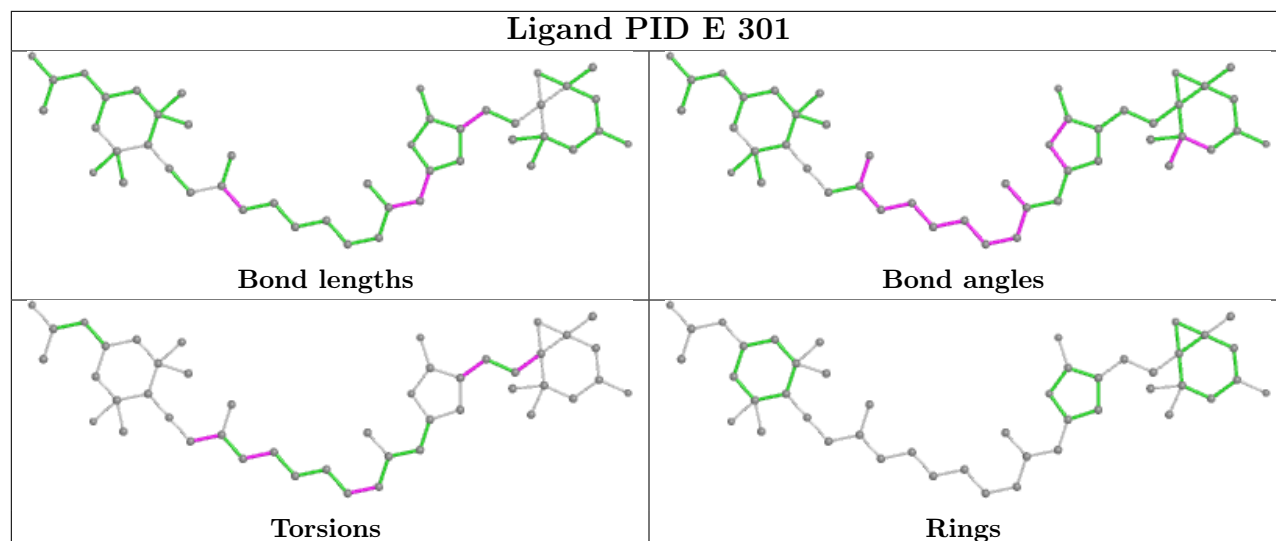


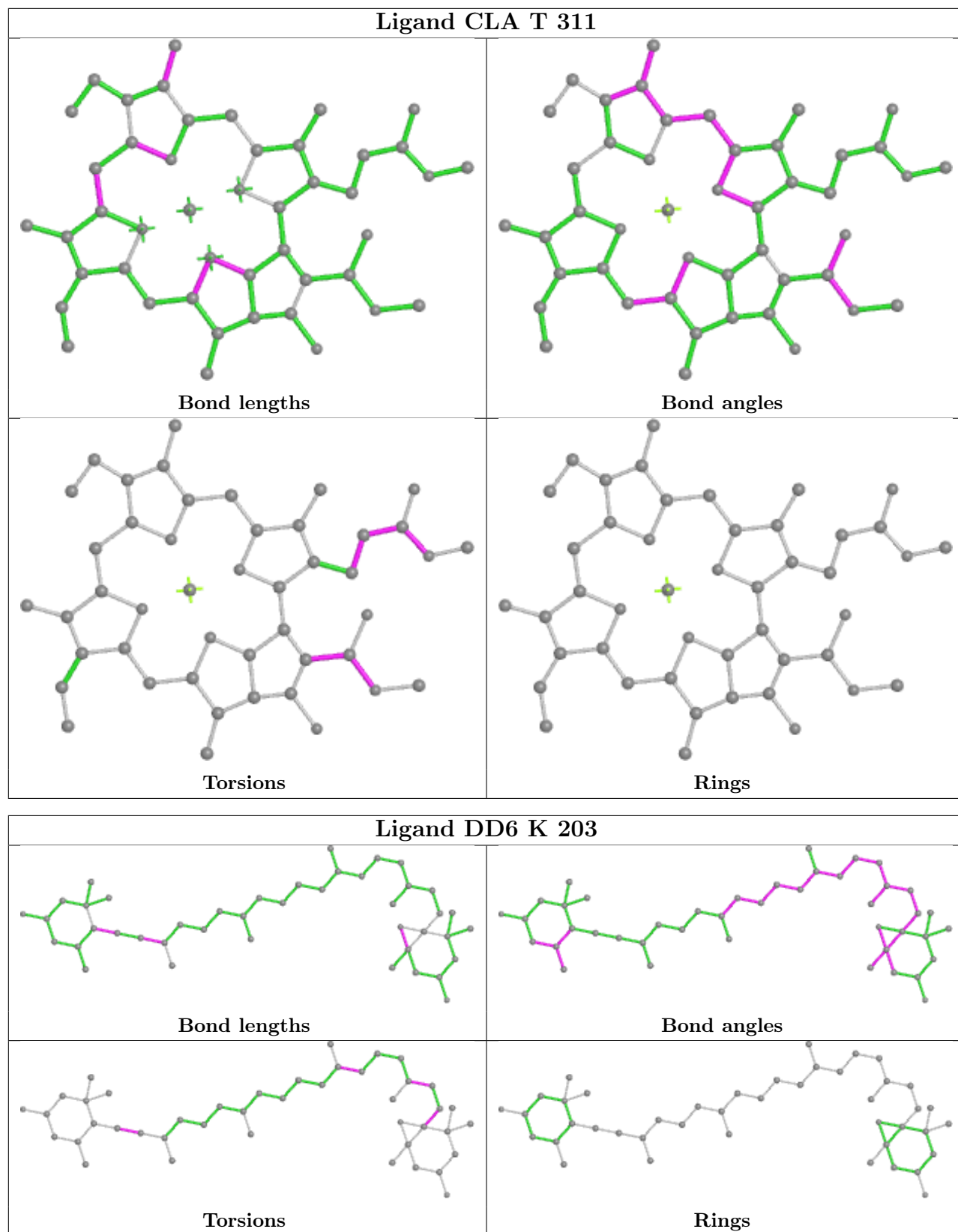


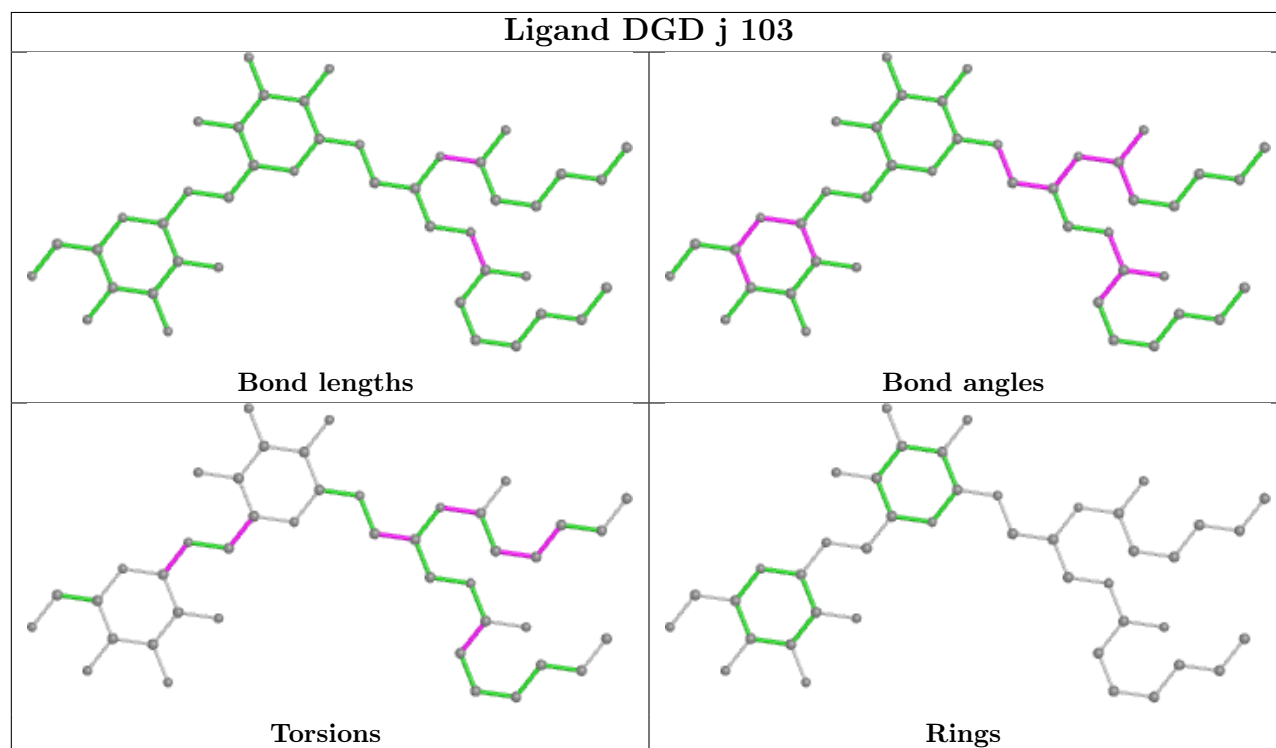
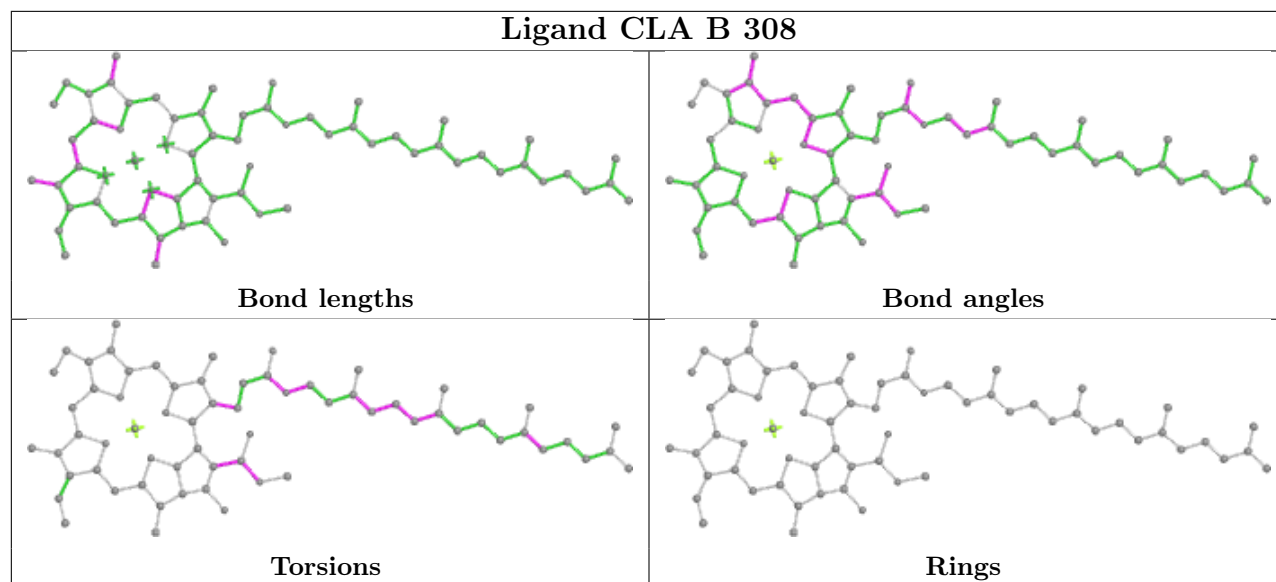


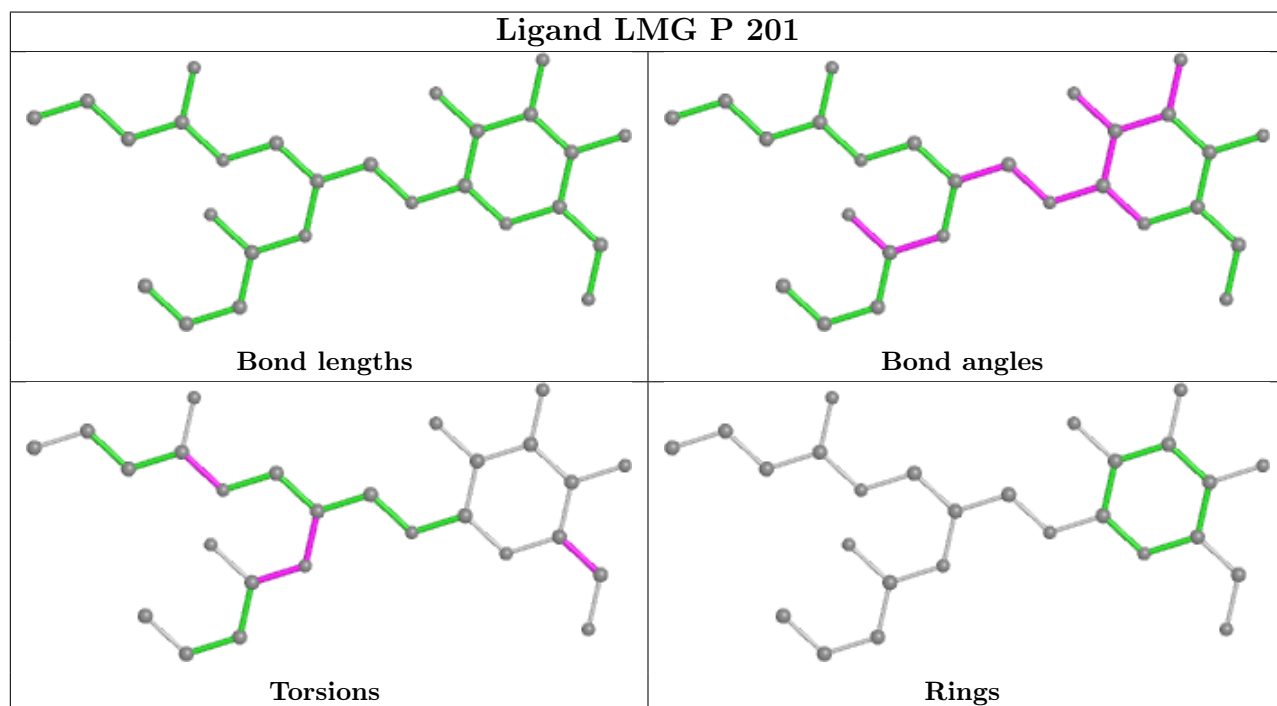
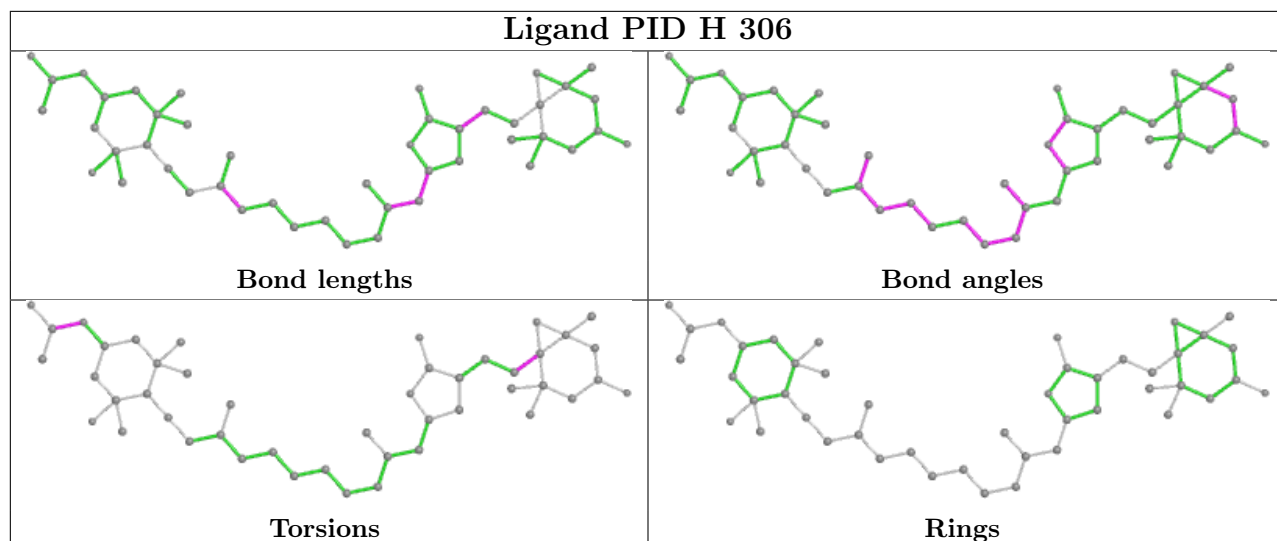


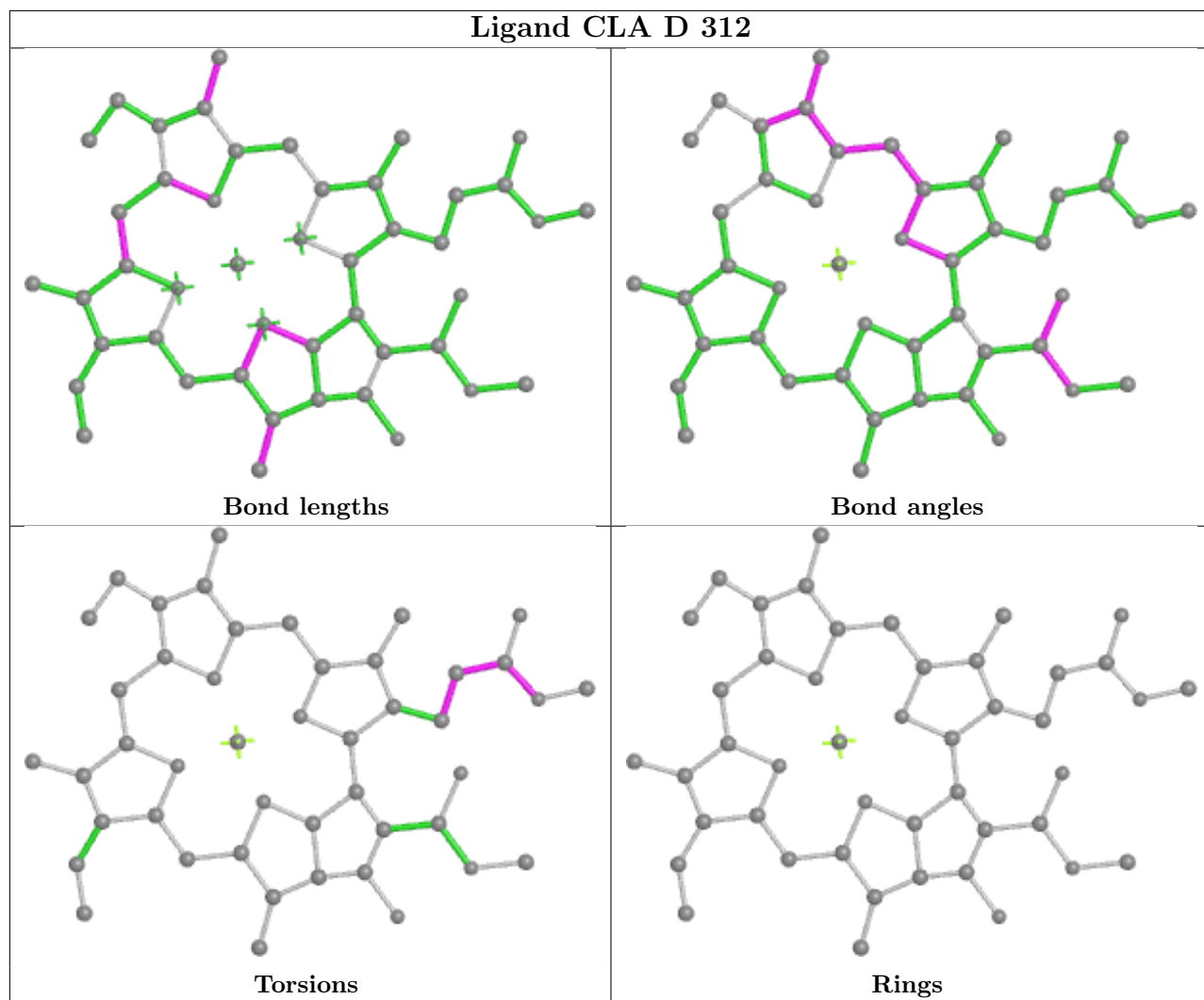


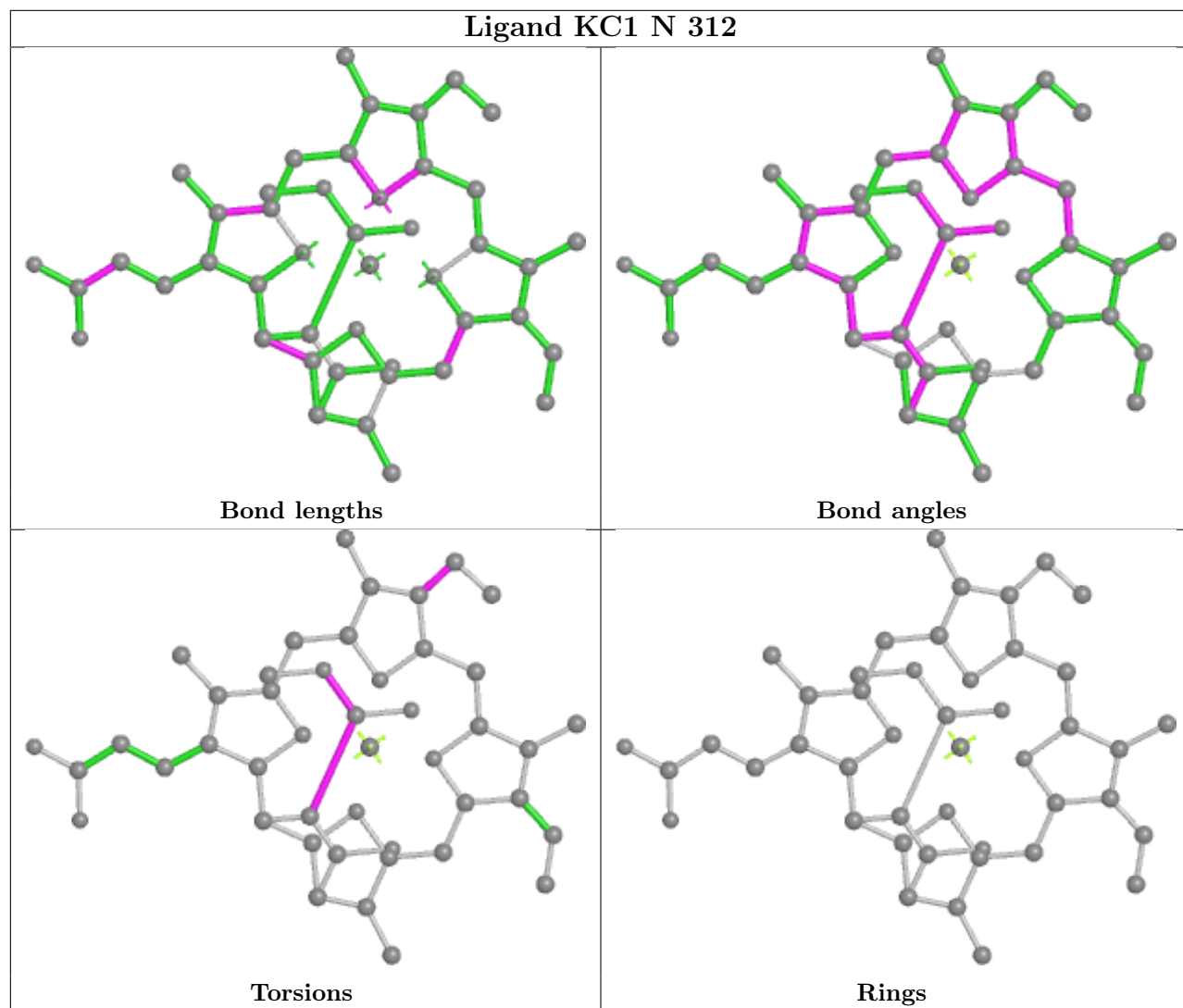


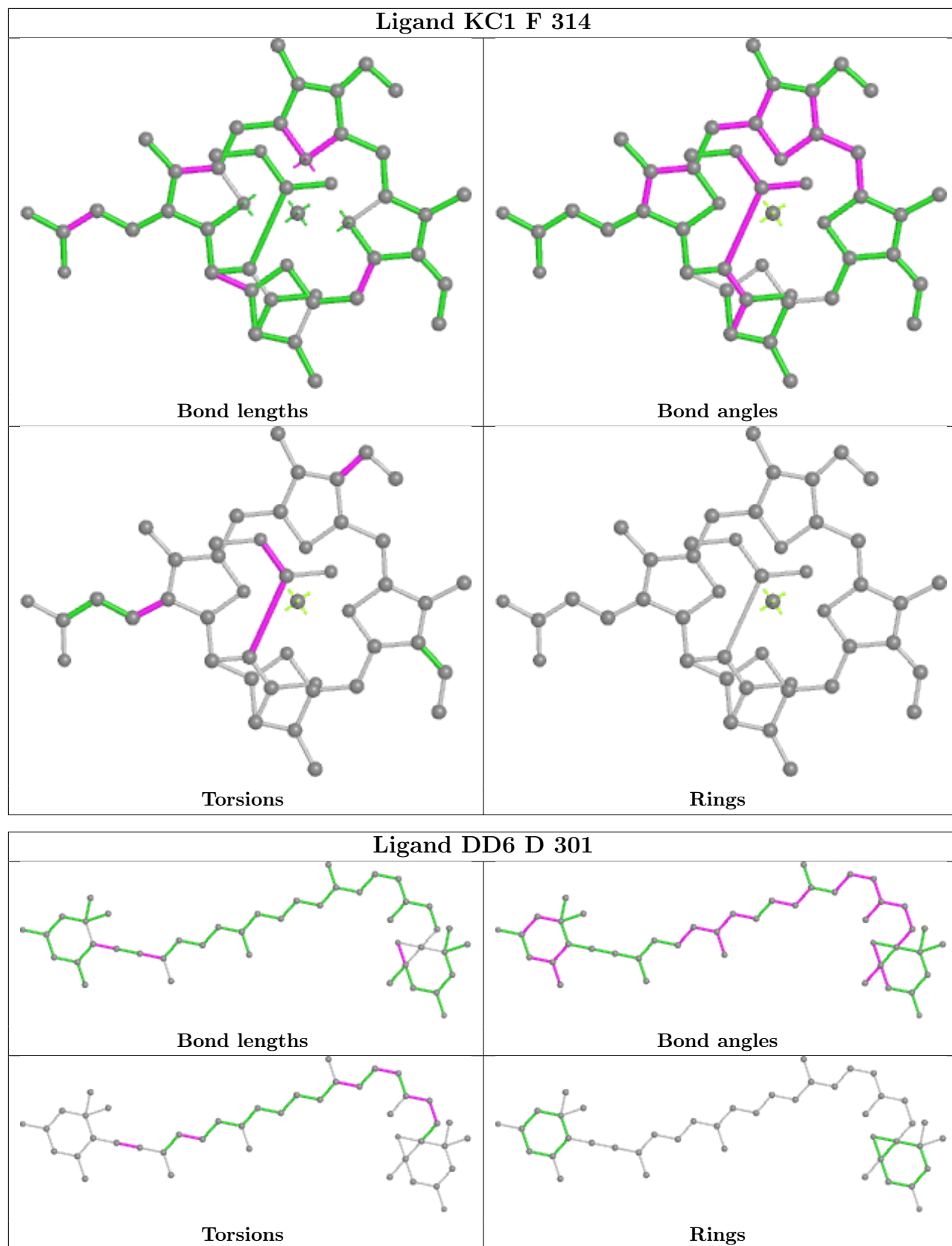


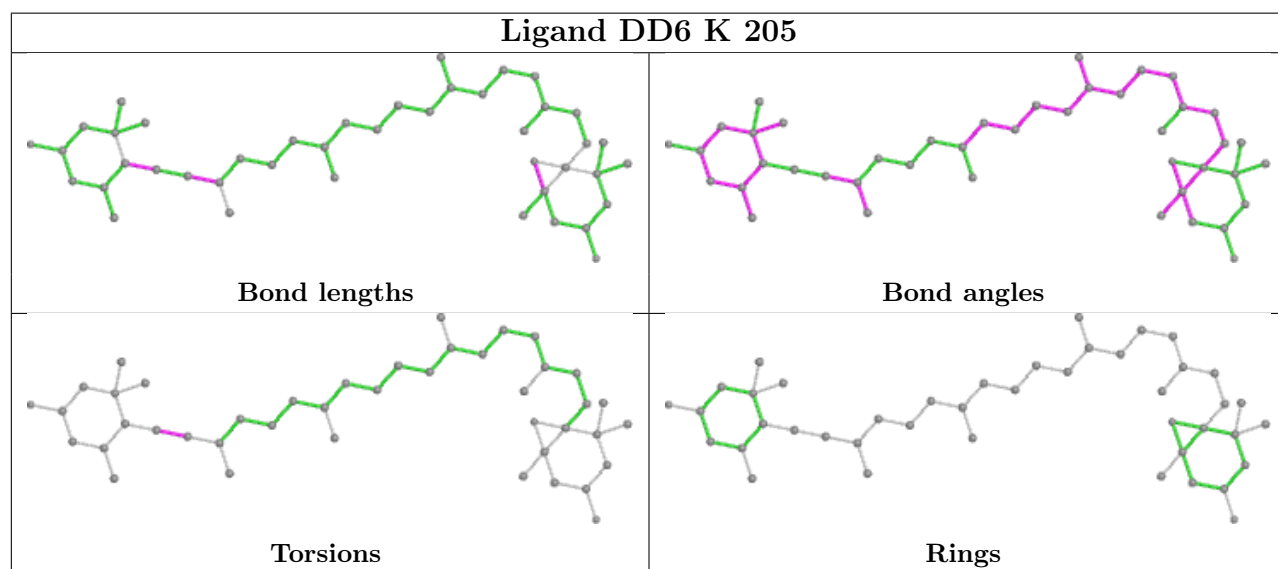
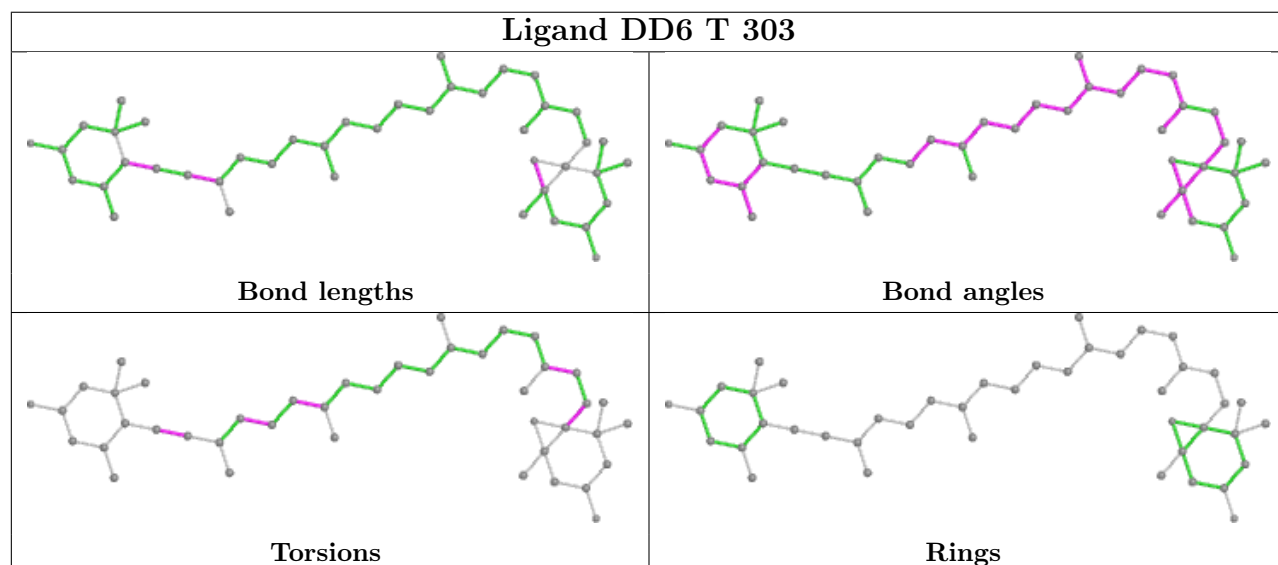
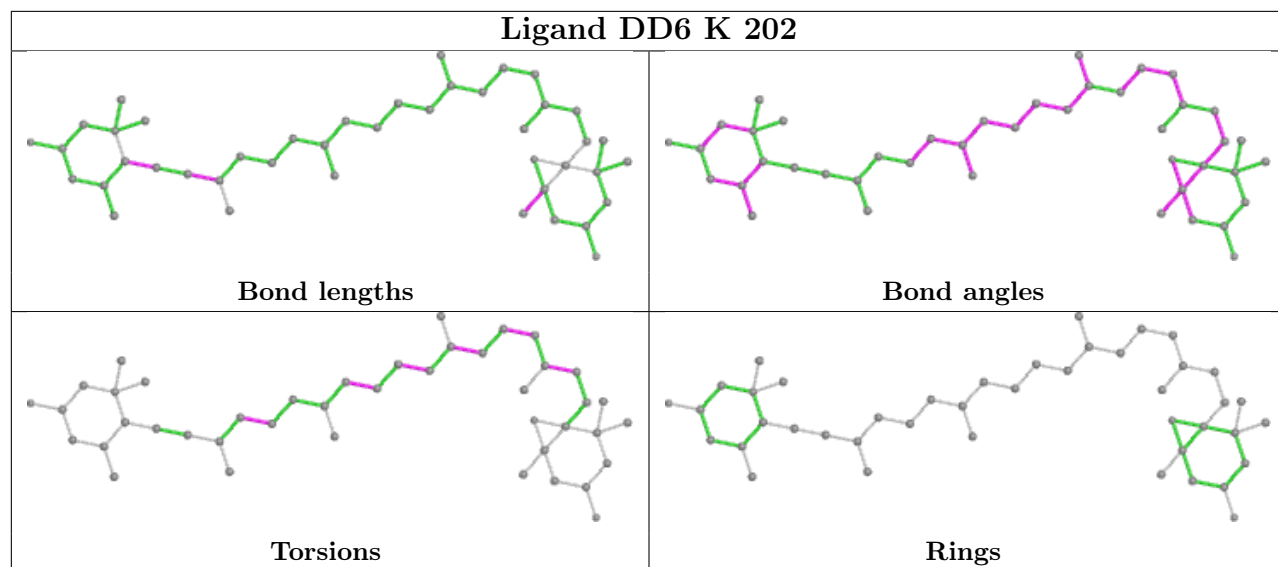


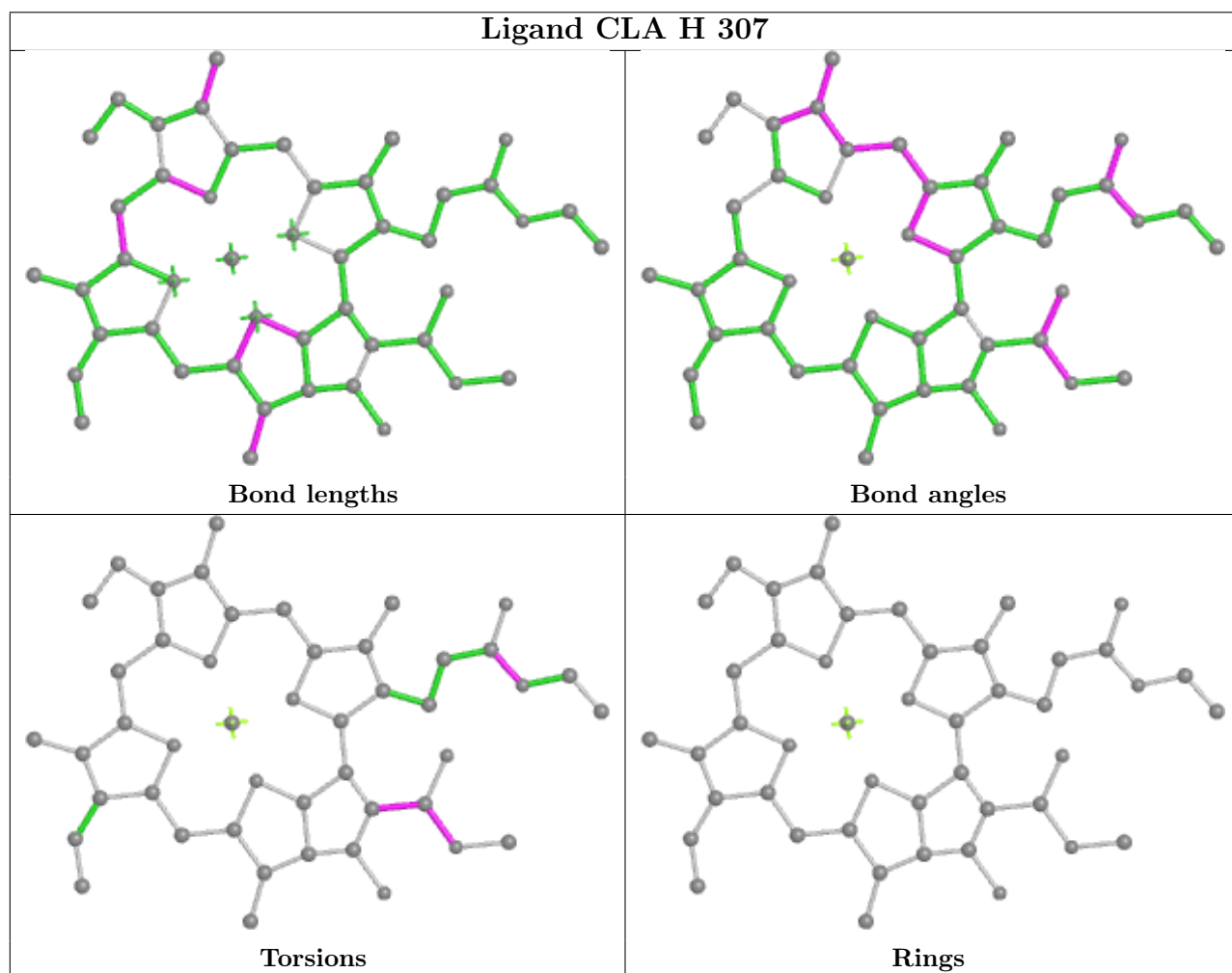
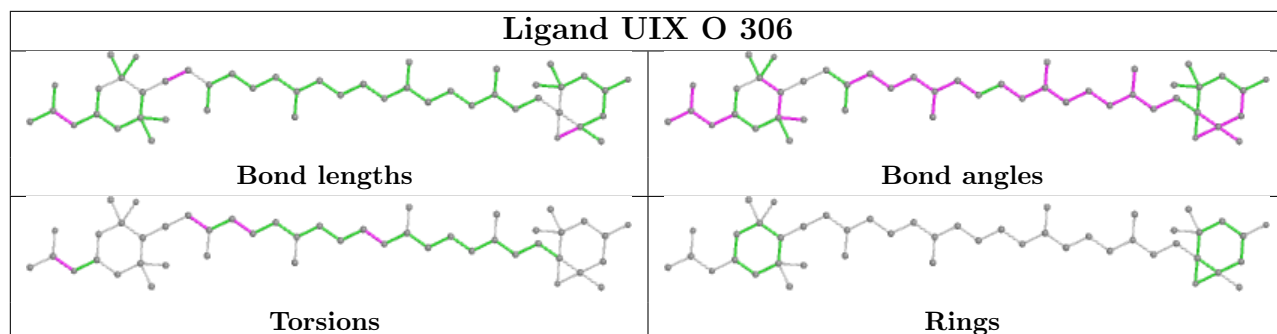


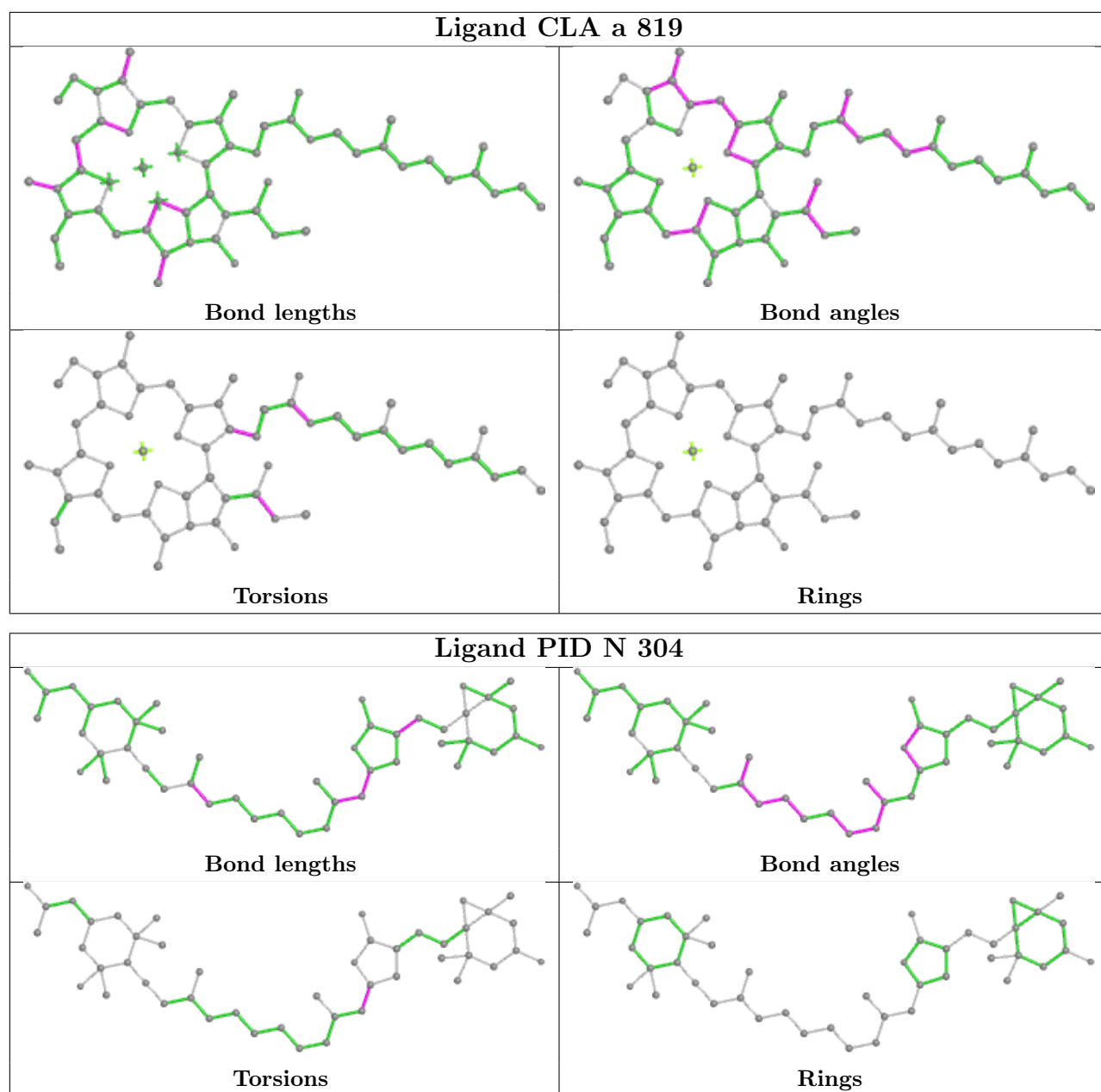


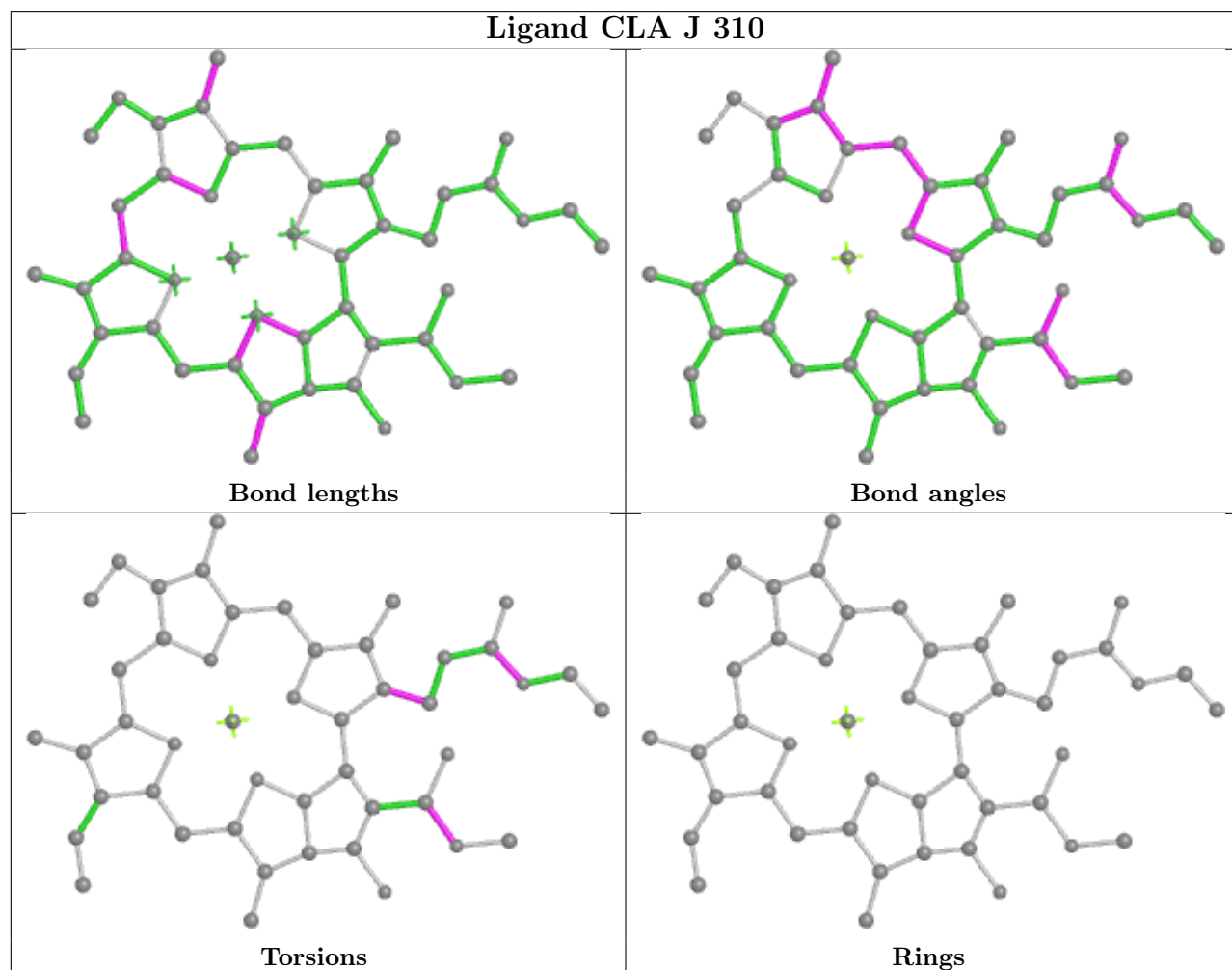
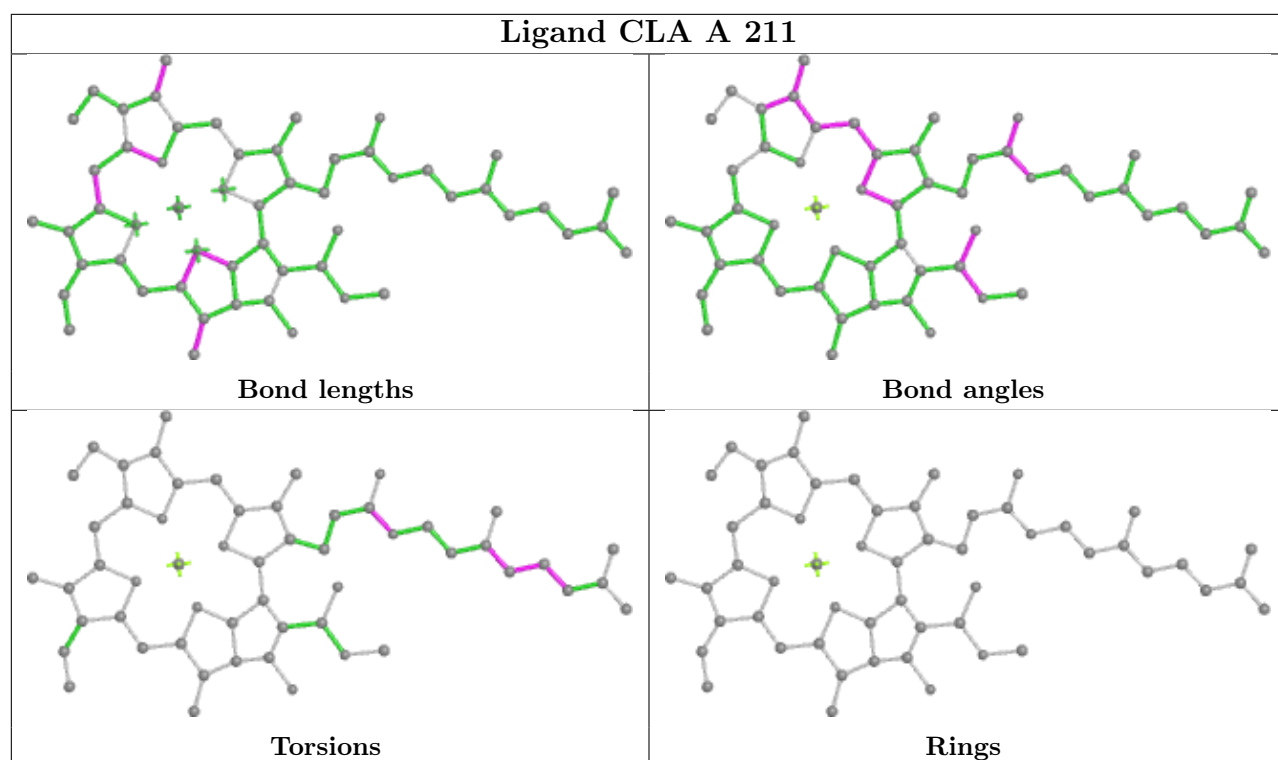


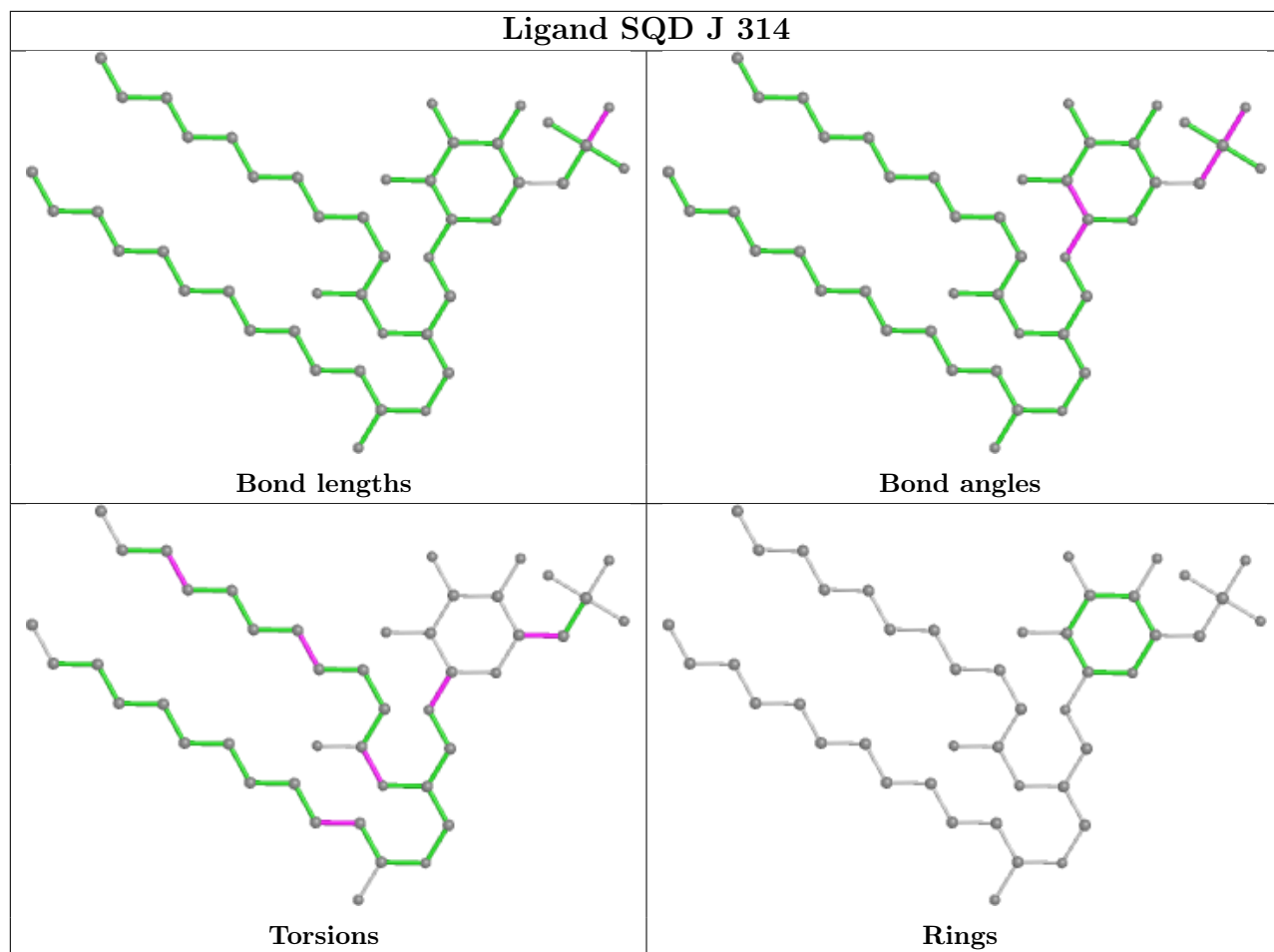


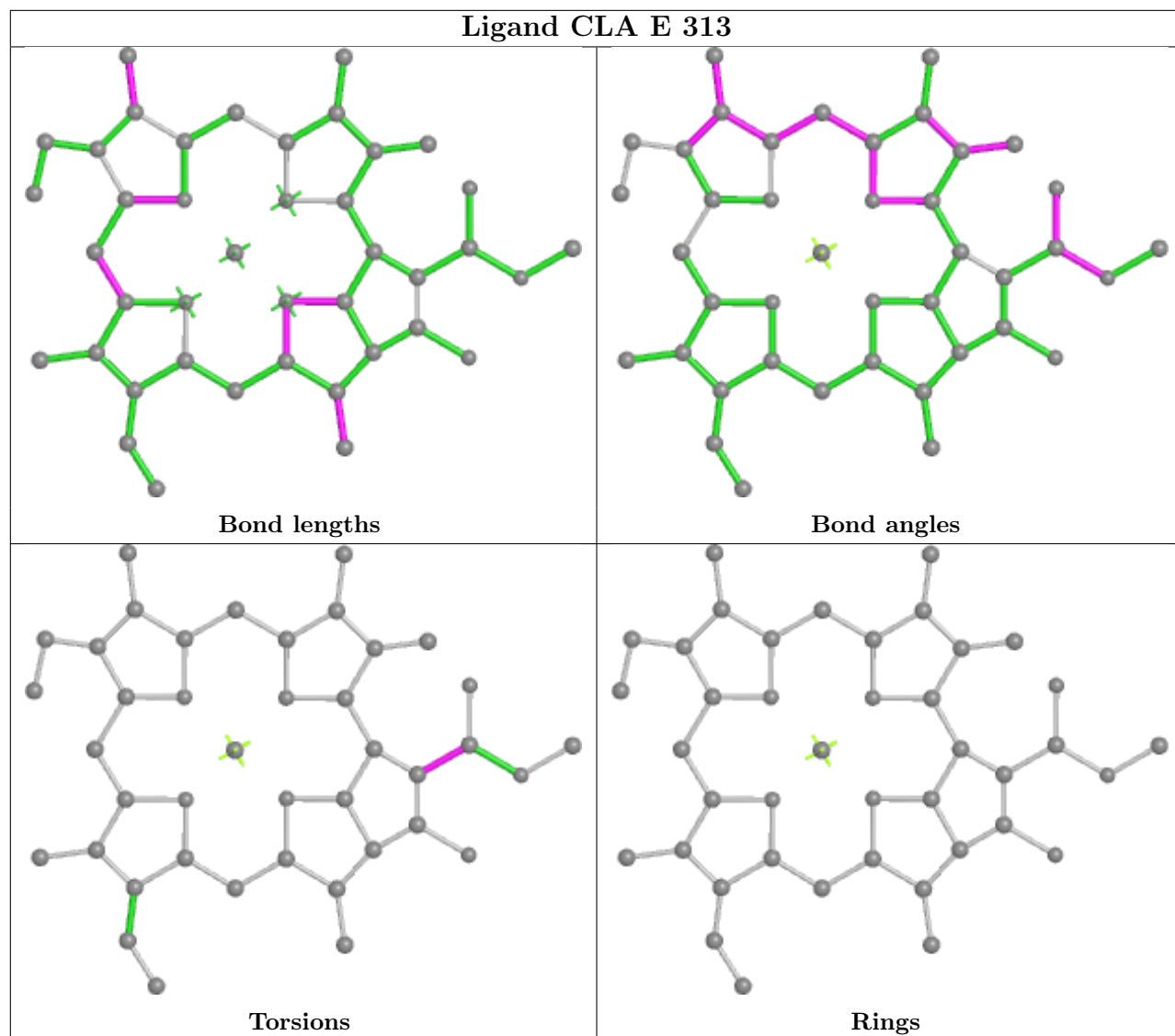


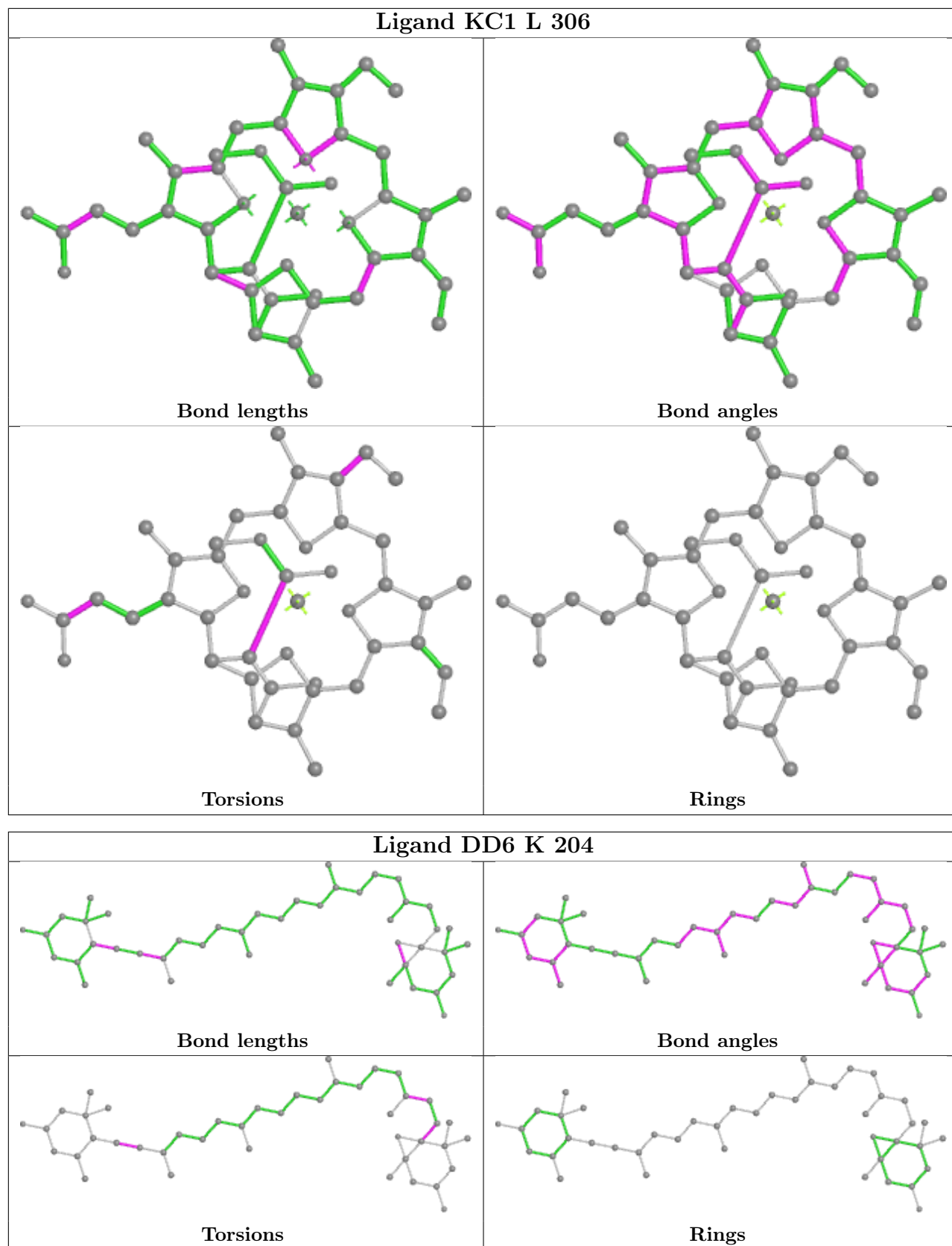


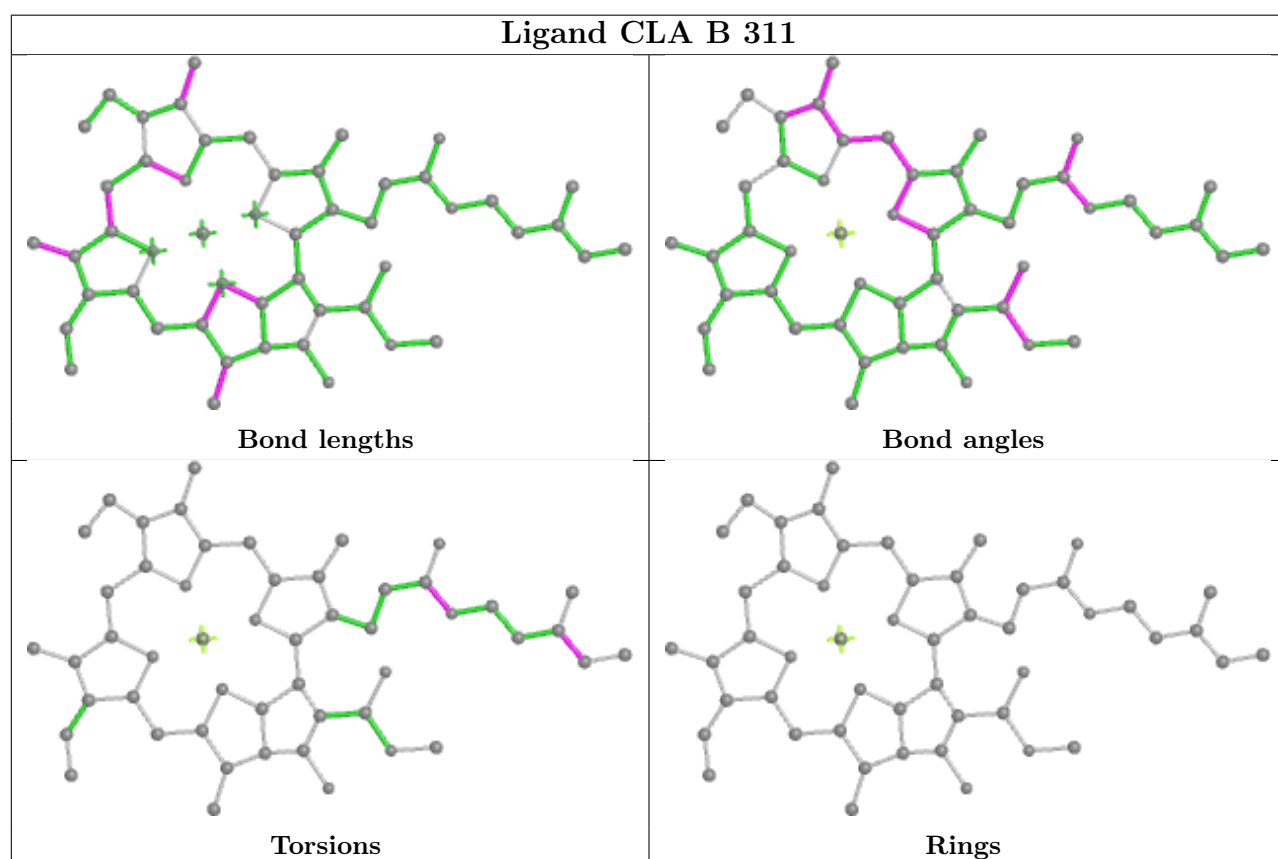
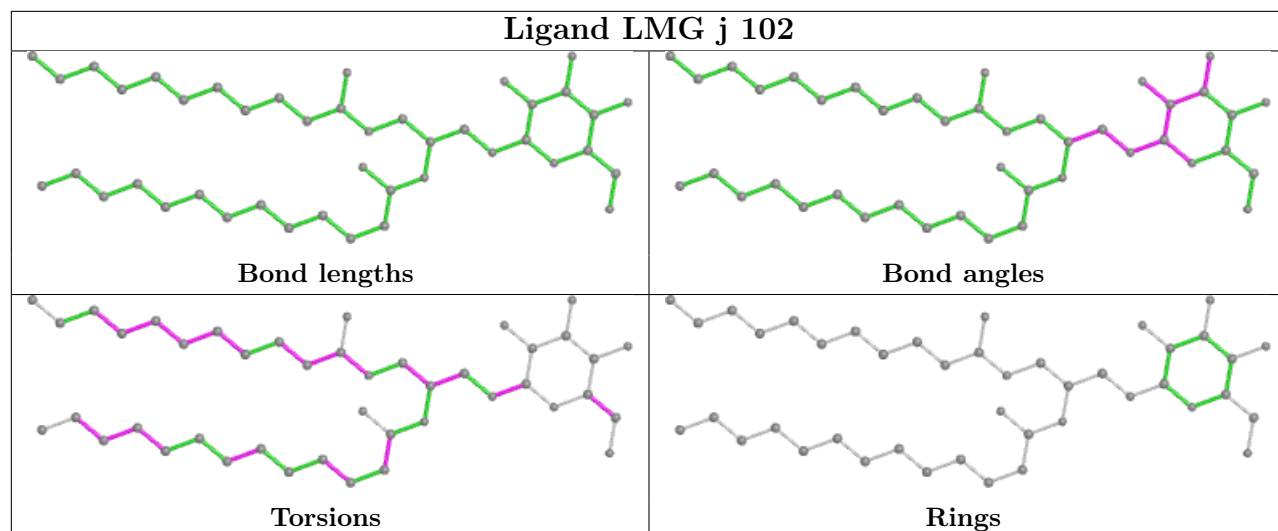


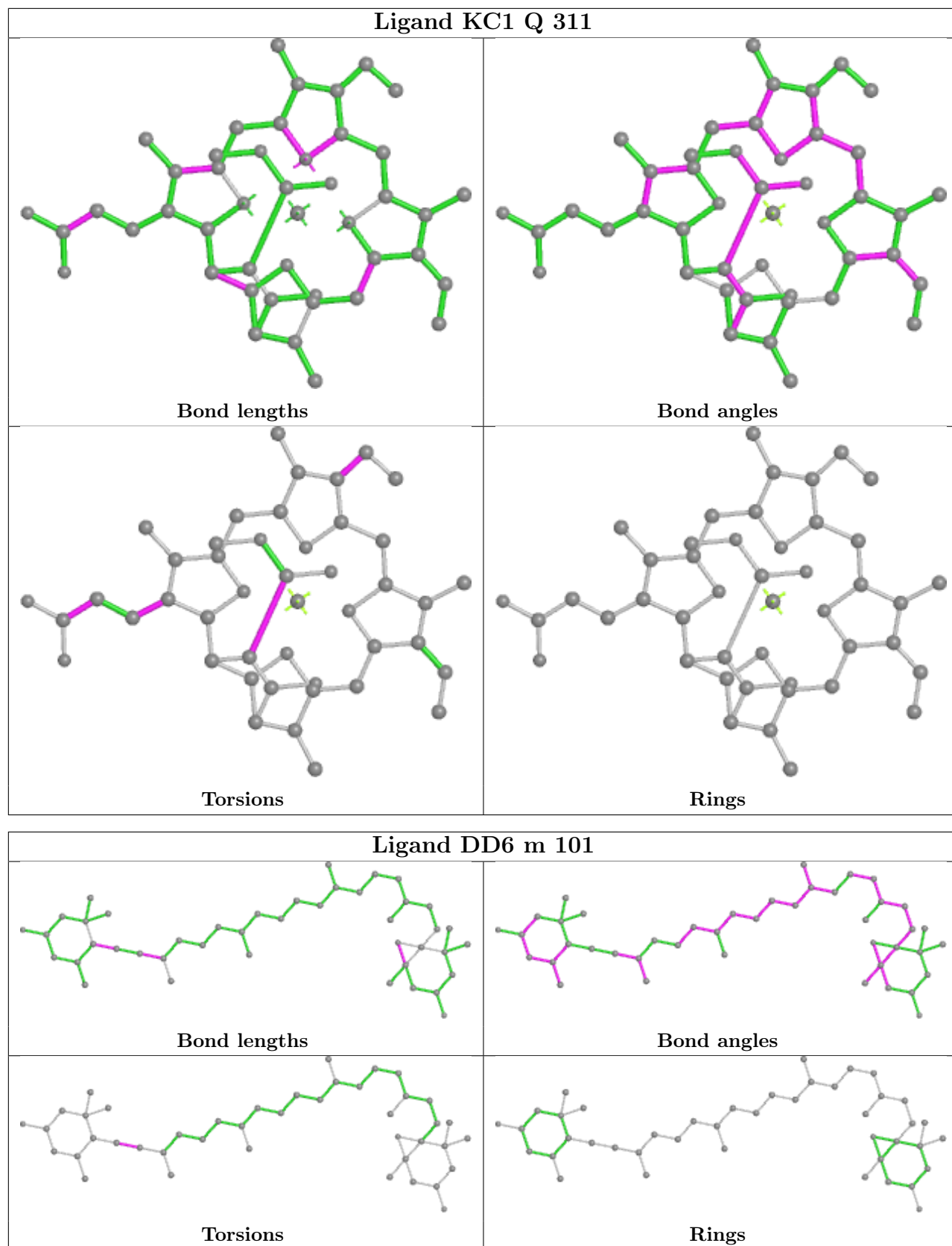


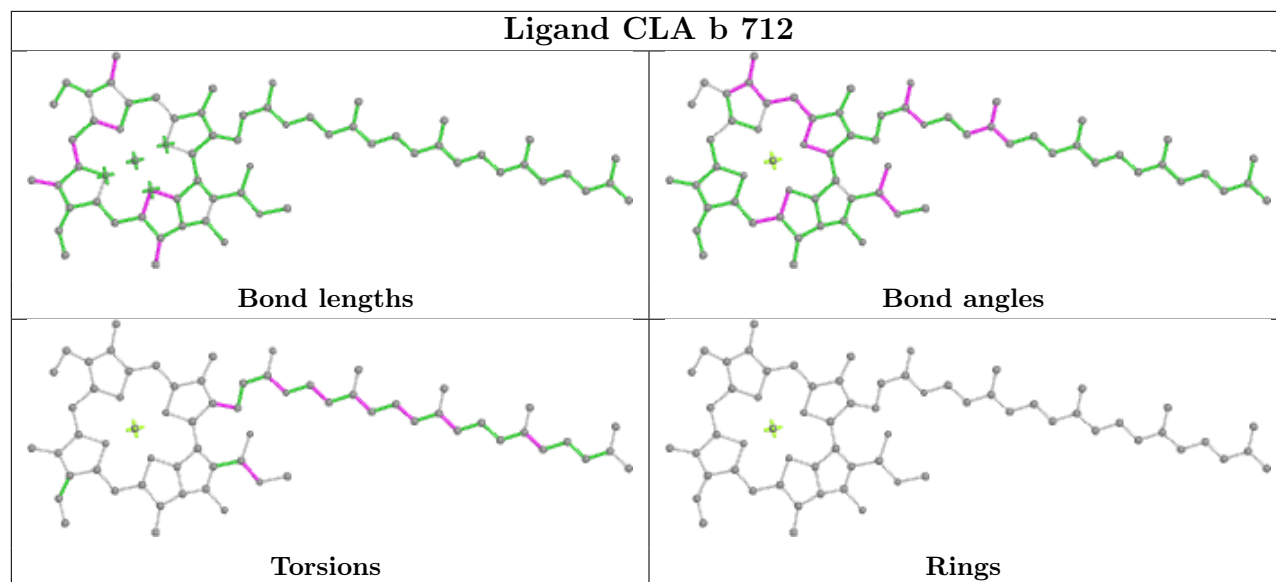












5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

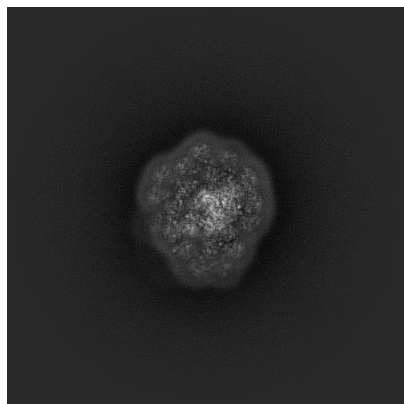
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-36678. These allow visual inspection of the internal detail of the map and identification of artifacts.

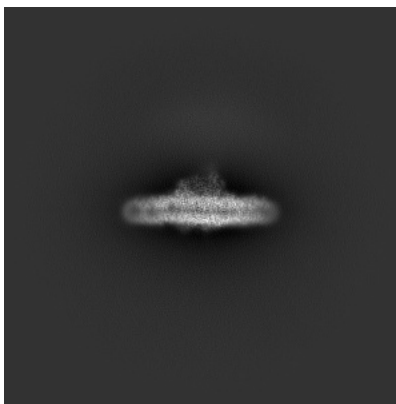
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

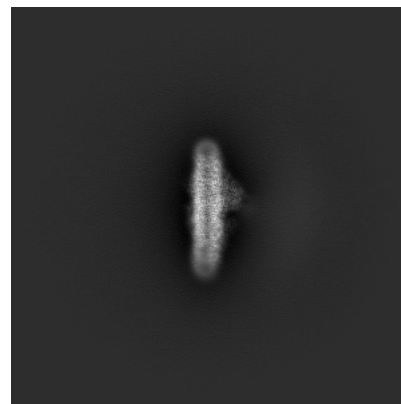
6.1.1 Primary map



X

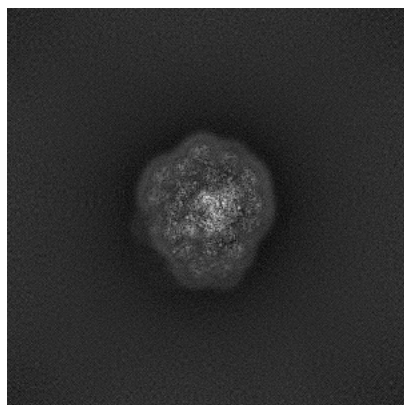


Y

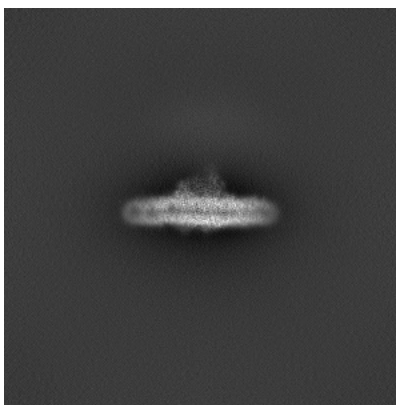


Z

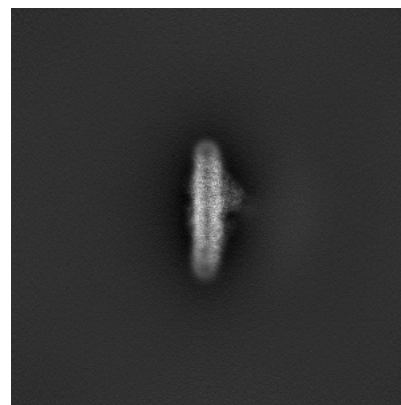
6.1.2 Raw map



X



Y

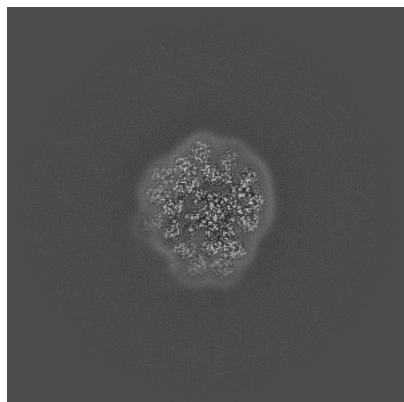


Z

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

6.2 Central slices [i](#)

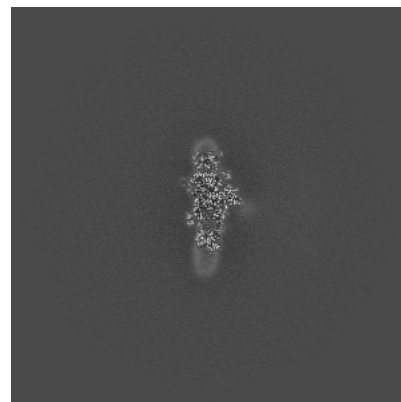
6.2.1 Primary map



X Index: 256

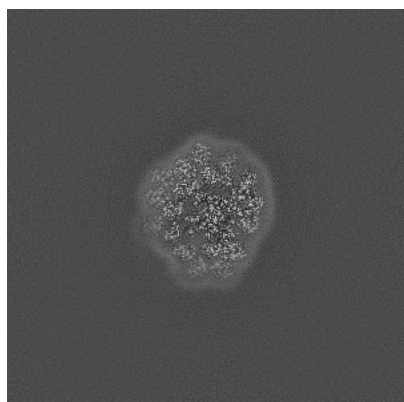


Y Index: 256

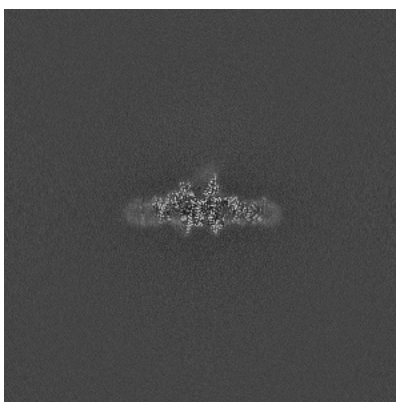


Z Index: 256

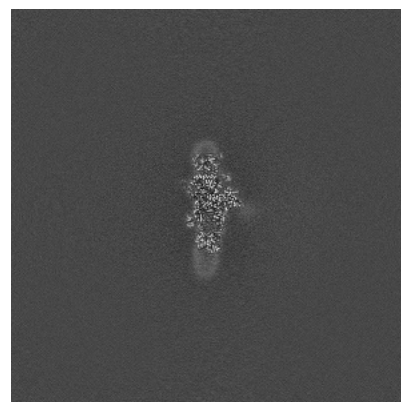
6.2.2 Raw map



X Index: 256



Y Index: 256

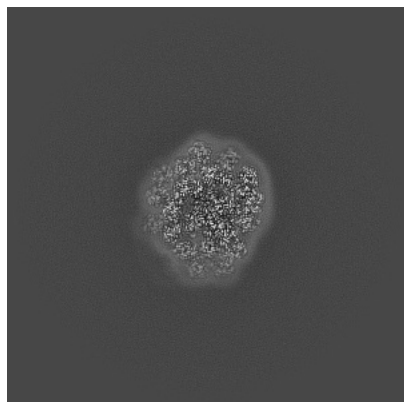


Z Index: 256

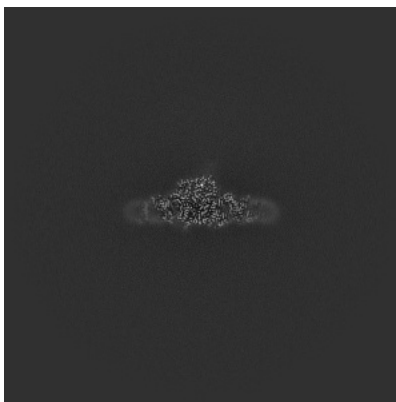
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

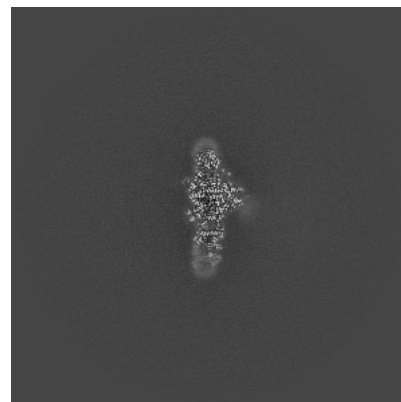
6.3.1 Primary map



X Index: 259

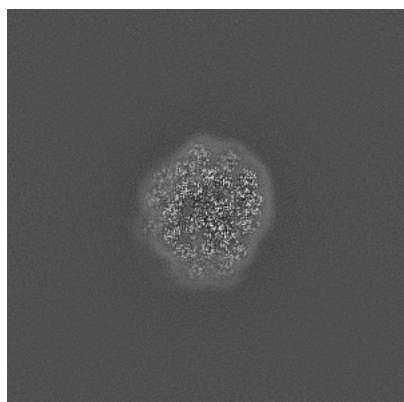


Y Index: 262

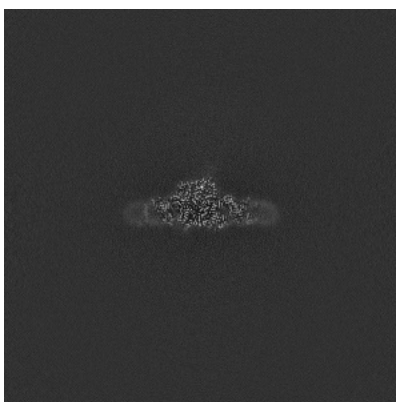


Z Index: 262

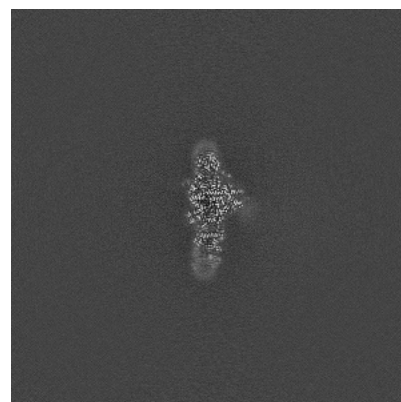
6.3.2 Raw map



X Index: 259



Y Index: 262

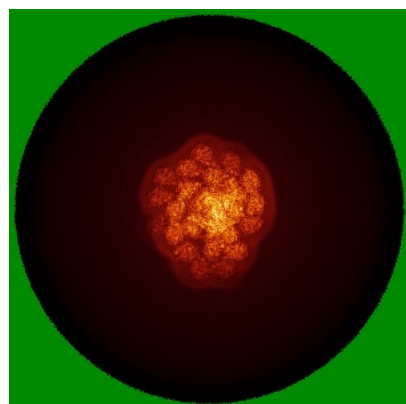


Z Index: 262

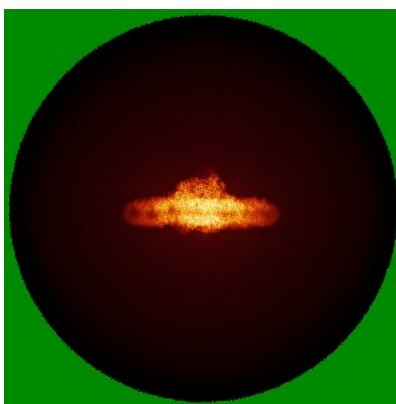
The images above show the largest variance slices of the map in three orthogonal directions.

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

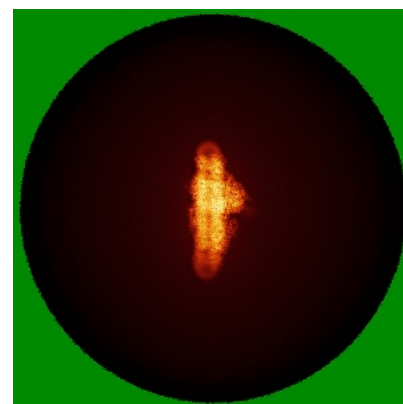
6.4.1 Primary map



X

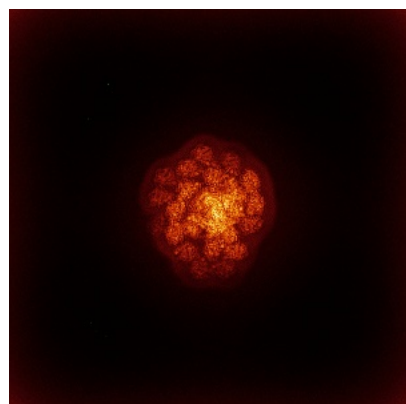


Y

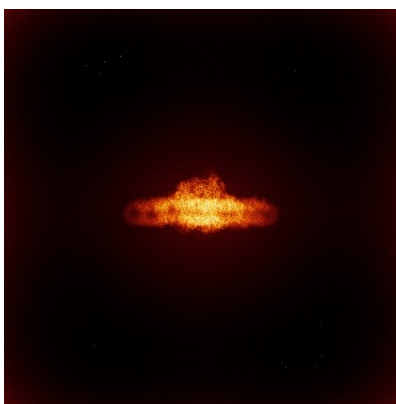


Z

6.4.2 Raw map



X



Y

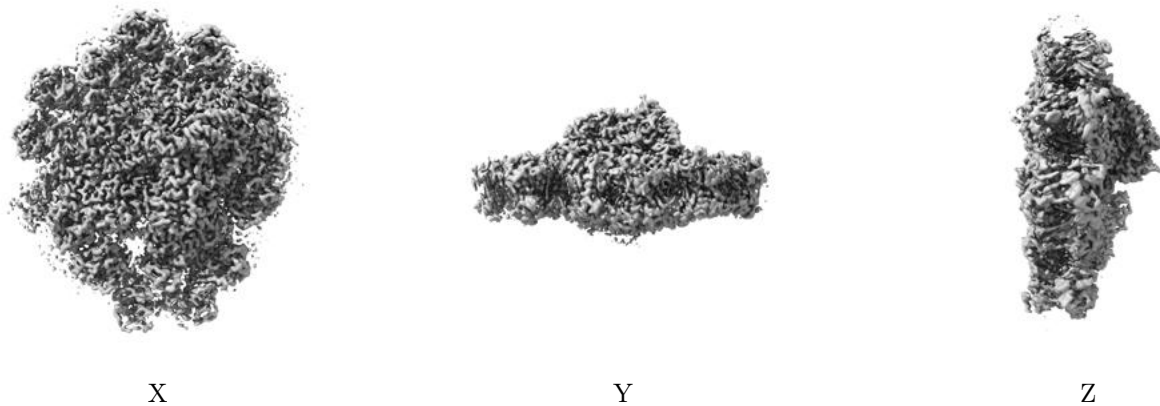


Z

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.

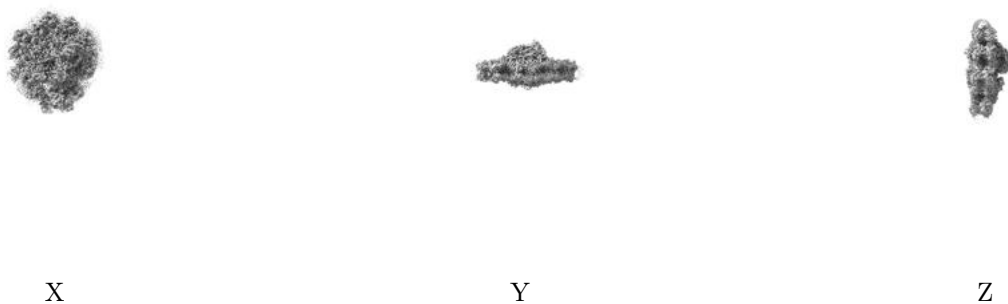
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.22. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

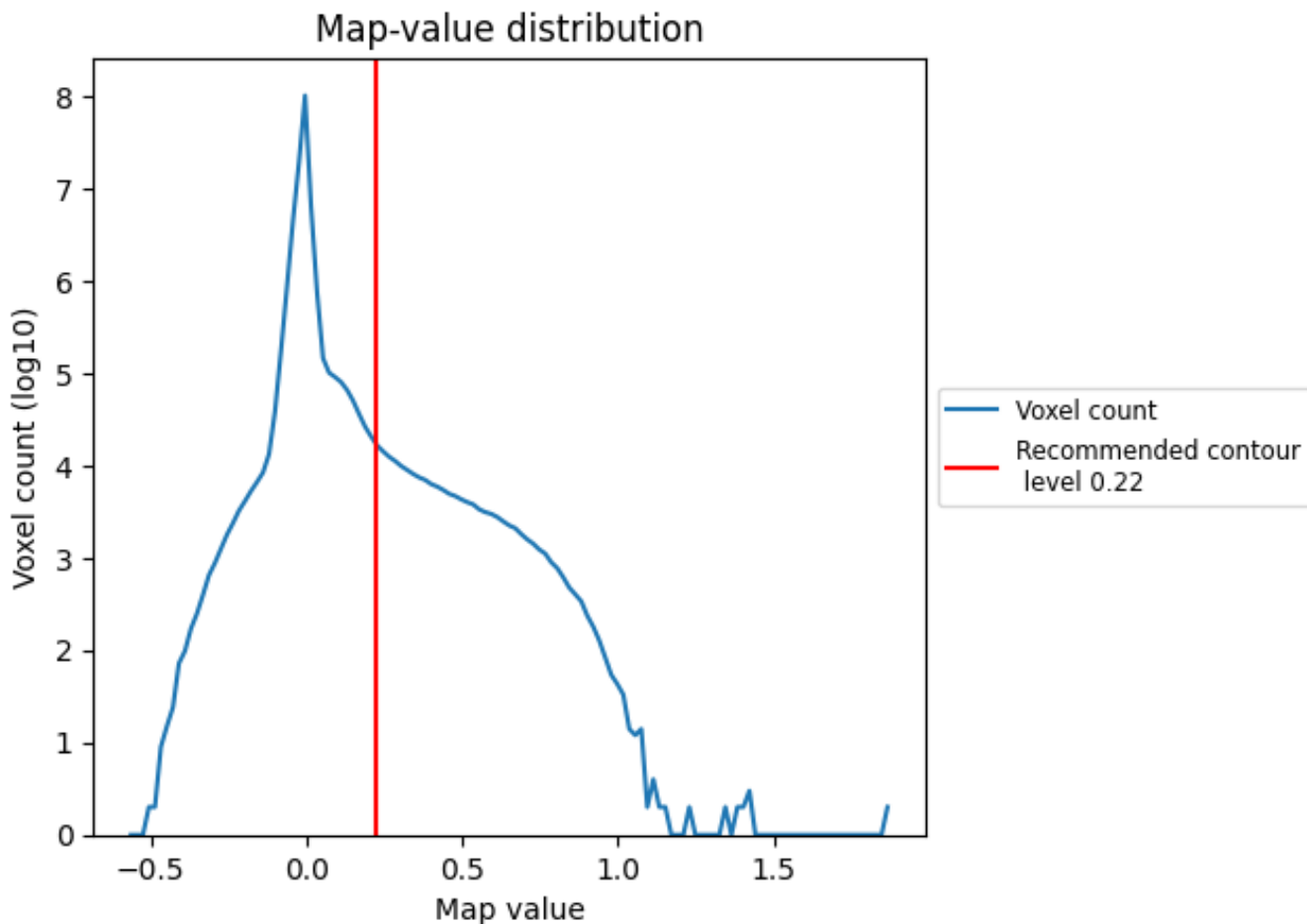
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

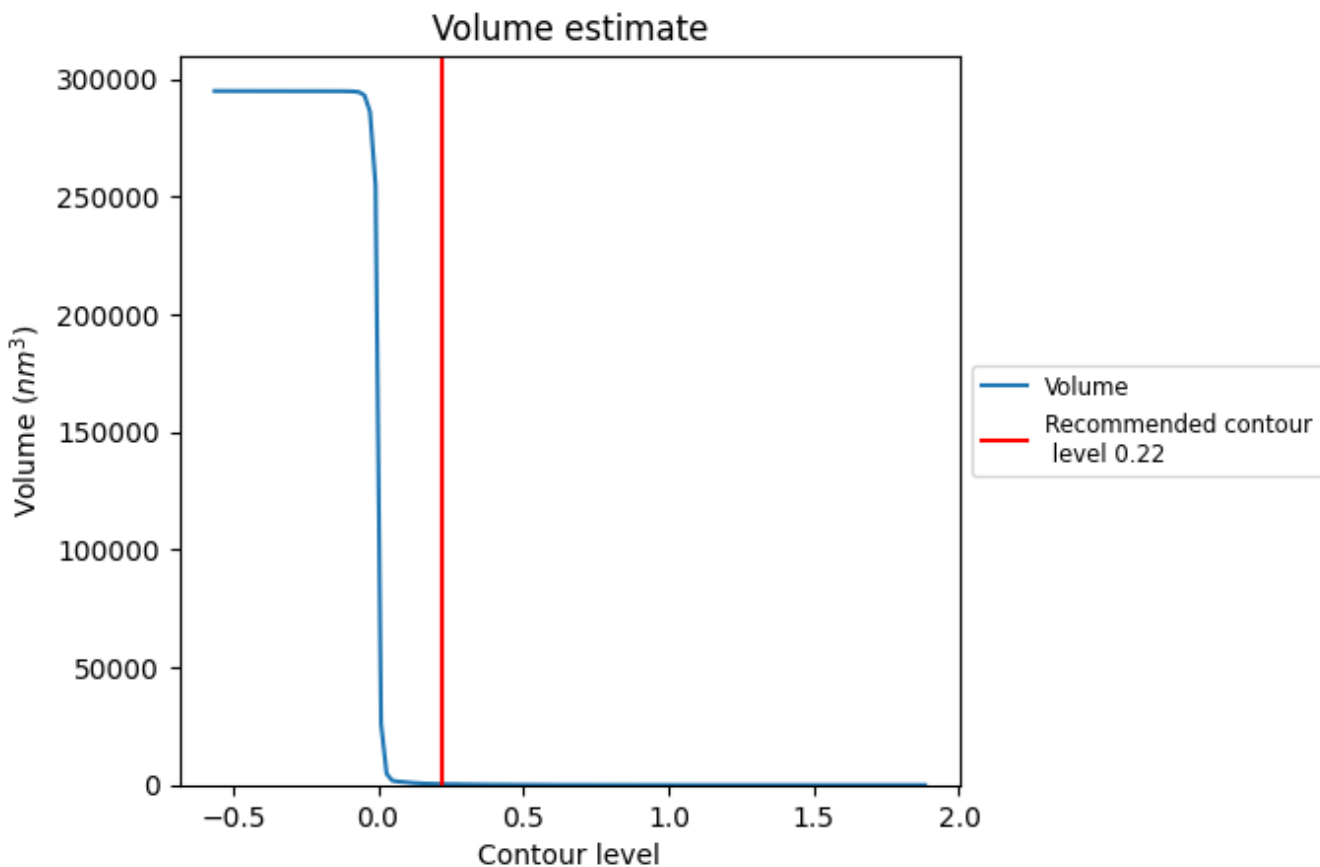
This section contains the results of statistical analysis of the map.

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.

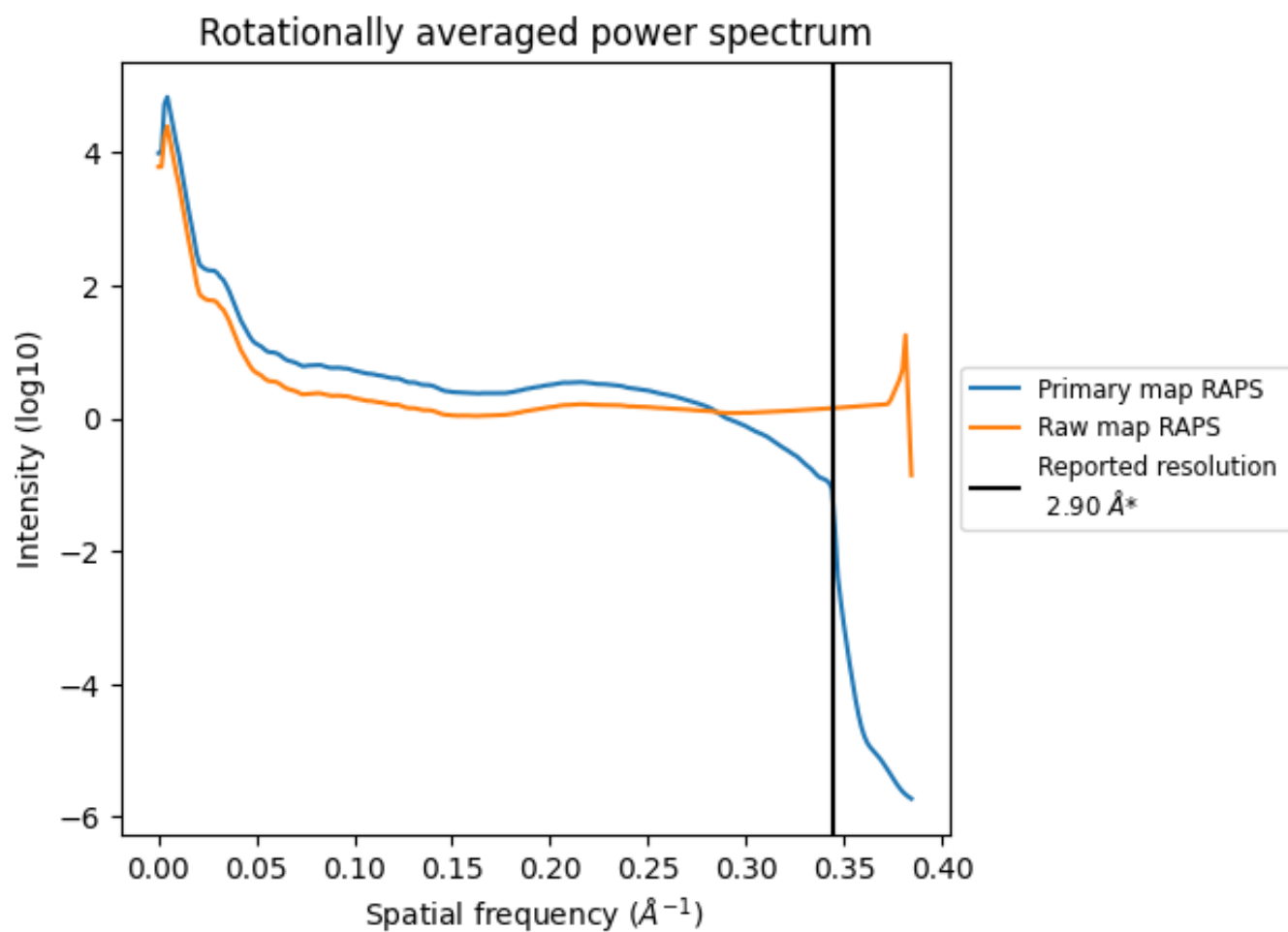
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 378 nm^3 ; this corresponds to an approximate mass of 342 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

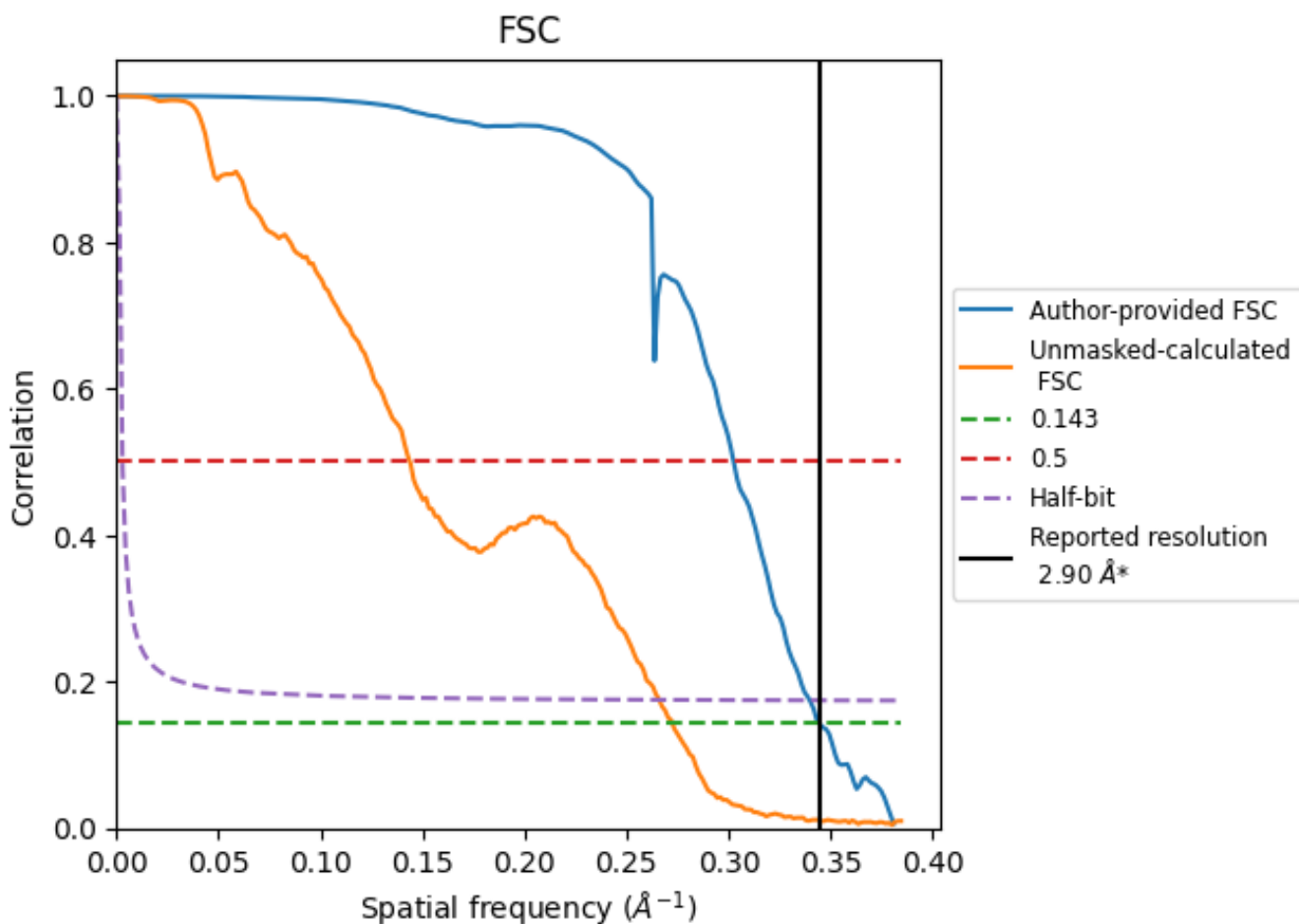


*Reported resolution corresponds to spatial frequency of 0.345 Å⁻¹

8 Fourier-Shell correlation [\(i\)](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [\(i\)](#)



*Reported resolution corresponds to spatial frequency of 0.345 Å⁻¹

8.2 Resolution estimates [i](#)

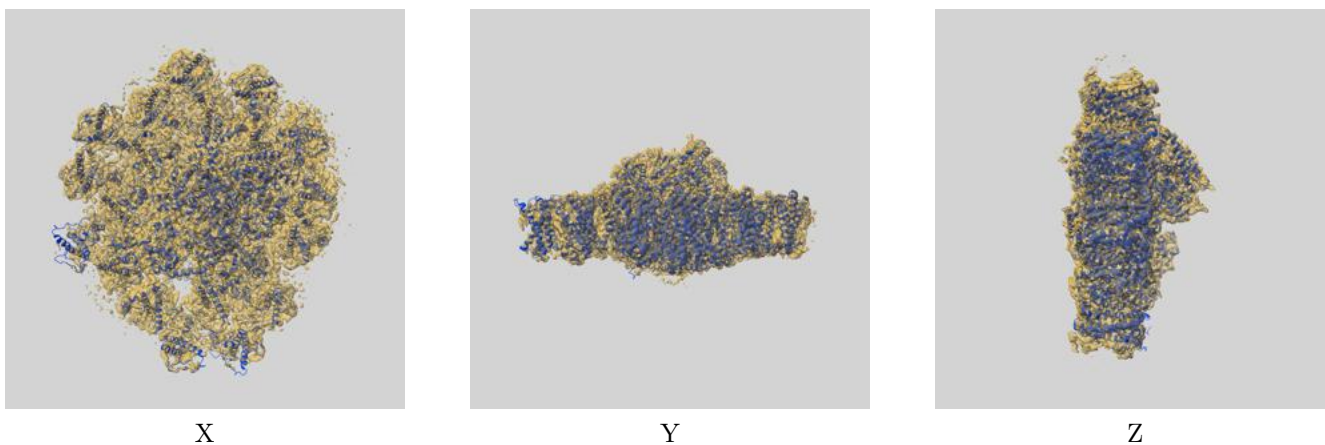
| Resolution estimate (Å) | Estimation criterion (FSC cut-off) | | |
|---------------------------|------------------------------------|------|----------|
| | 0.143 | 0.5 | Half-bit |
| Reported by author | 2.90 | - | - |
| Author-provided FSC curve | 2.90 | 3.31 | 2.94 |
| Unmasked-calculated* | 3.67 | 6.95 | 3.76 |

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 3.67 differs from the reported value 2.9 by more than 10 %

9 Map-model fit [i](#)

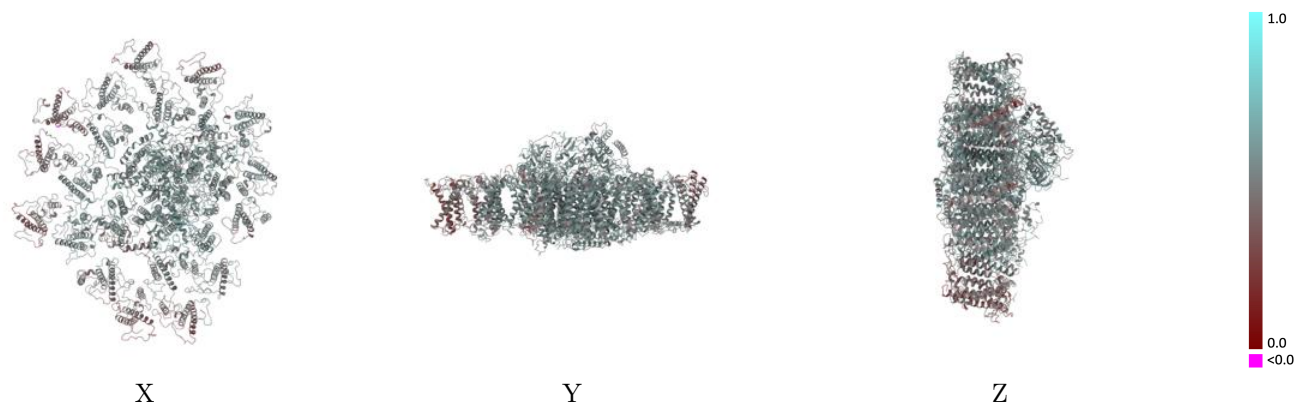
This section contains information regarding the fit between EMDB map EMD-36678 and PDB model 8JW0. Per-residue inclusion information can be found in section 3 on page 40.

9.1 Map-model overlay [i](#)



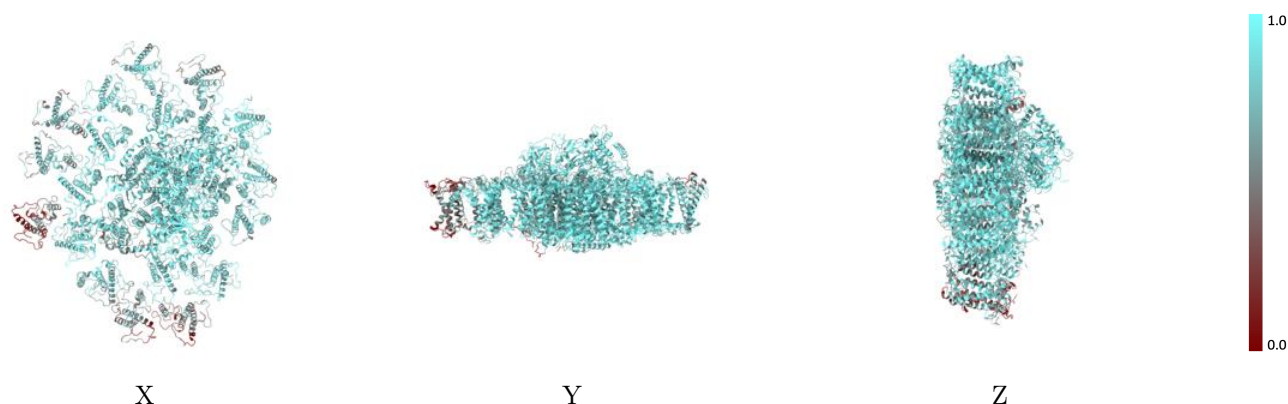
The images above show the 3D surface view of the map at the recommended contour level 0.22 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



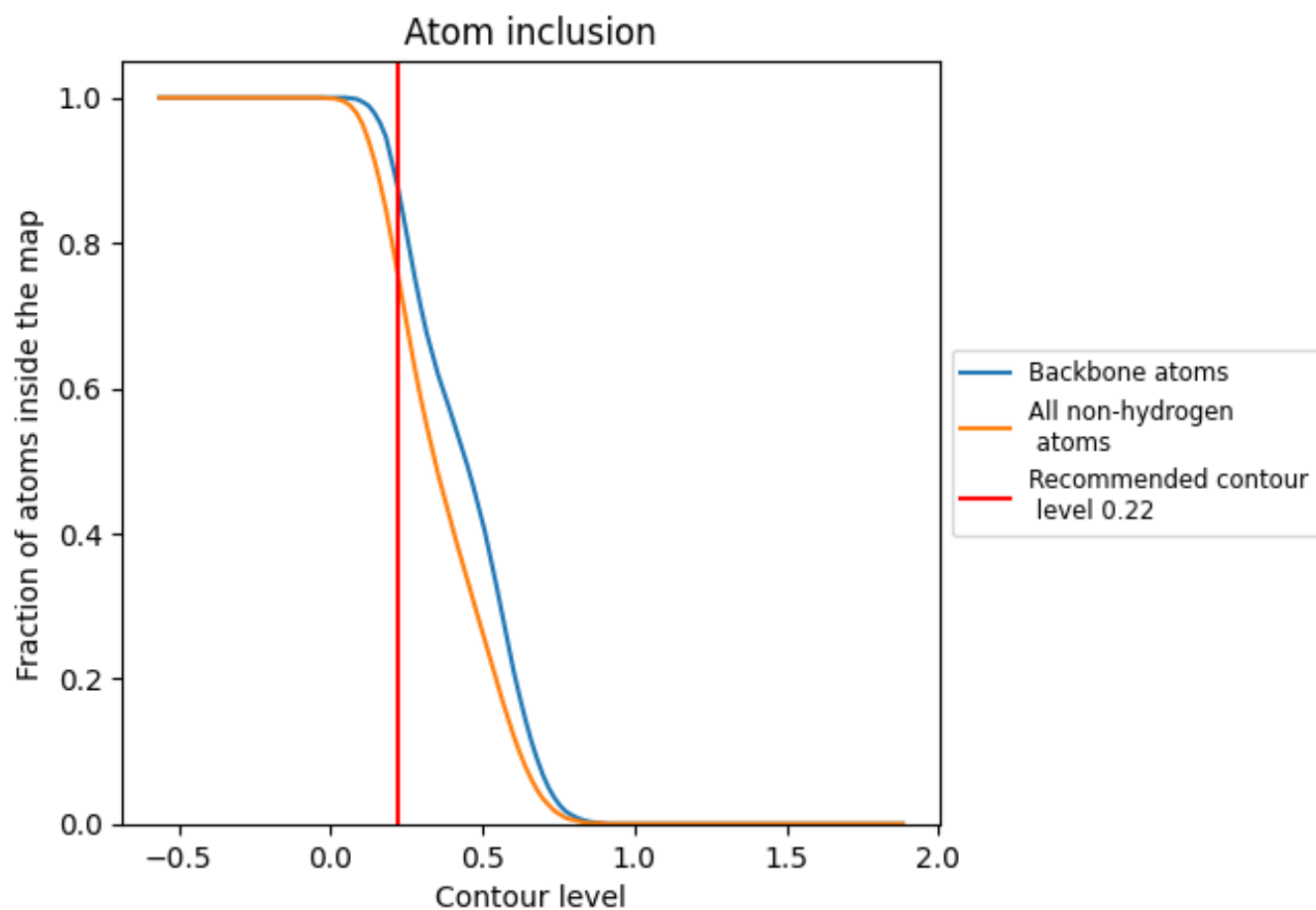
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.22).





























































9.4 Atom inclusion [i](#)



At the recommended contour level, 88% of all backbone atoms, 76% 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 (0.22) and Q-score for the entire model and for each chain.

| Chain | Atom inclusion | Q-score |
|-------|--|--|
| All |  0.7610 |  0.5100 |
| A |  0.8530 |  0.5420 |
| B |  0.8250 |  0.5400 |
| C |  0.7340 |  0.4710 |
| D |  0.6420 |  0.4360 |
| E |  0.7510 |  0.5040 |
| F |  0.7860 |  0.5010 |
| G |  0.8350 |  0.5470 |
| H |  0.3850 |  0.3860 |
| I |  0.8550 |  0.5520 |
| J |  0.8020 |  0.5160 |
| K |  0.8480 |  0.5520 |
| L |  0.8120 |  0.5330 |
| M |  0.7040 |  0.4660 |
| N |  0.4320 |  0.3830 |
| O |  0.5950 |  0.4070 |
| P |  0.2580 |  0.3780 |
| Q |  0.8000 |  0.5110 |
| T |  0.5580 |  0.3790 |
| a |  0.8120 |  0.5450 |
| b |  0.8740 |  0.5690 |
| c |  0.9430 |  0.5590 |
| d |  0.8890 |  0.5480 |
| e |  0.9090 |  0.5690 |
| f |  0.8360 |  0.5440 |
| h |  0.8700 |  0.5530 |
| i |  0.8300 |  0.5450 |
| j |  0.8020 |  0.5450 |
| l |  0.8340 |  0.5370 |
| m |  0.7750 |  0.5380 |

