



wwPDB X-ray Structure Validation Summary Report i

Sep 23, 2025 – 08:24 pm BST

PDB ID : 6Y7O / pdb_00006y7o
Title : The complex between the eight-bladed symmetrical designer protein Tako8 and the silicotungstic acid Keggin (STA)
Authors : Vandebroek, L.; Noguchi, H.; Parac-Vogt, T.N.; Van Meervelt, L.; Voet, A.R.D.
Deposited on : 2020-03-02
Resolution : 2.30 Å (reported)

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

We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>
with specific help available everywhere you see the i 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](#) i) were used in the production of this report:

MolProbity : 4.5-2 with Phenix2.0
Mogul : 1.8.4, CSD as541be (2020)
Xtriage (Phenix) : 2.0
EDS : 3.0
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.46

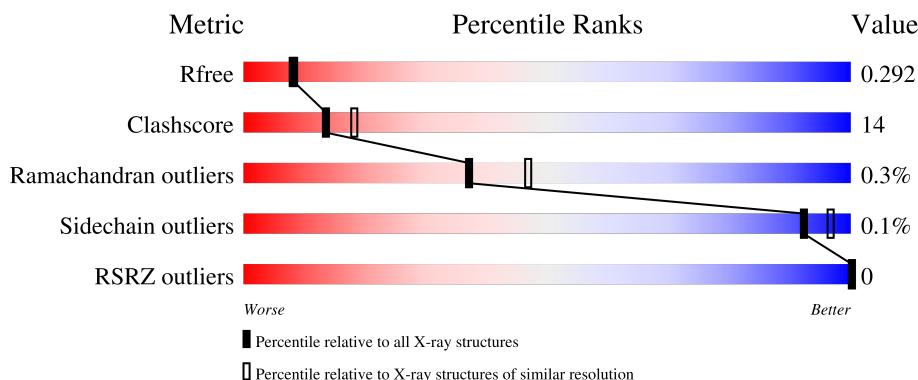
1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

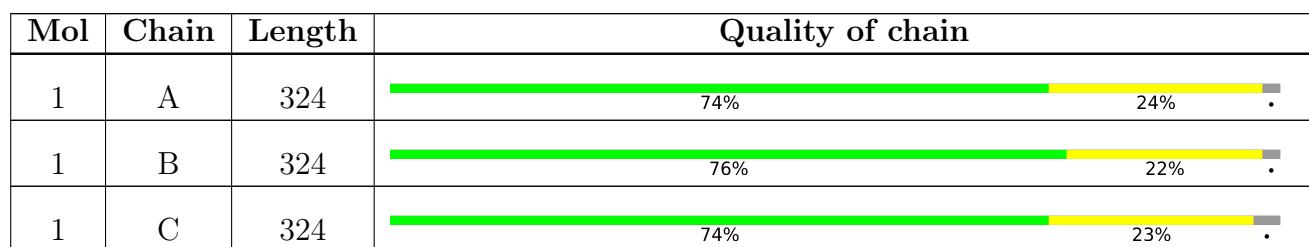
The reported resolution of this entry is 2.30 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	164625	5963 (2.30-2.30)
Clashscore	180529	6698 (2.30-2.30)
Ramachandran outliers	177936	6640 (2.30-2.30)
Sidechain outliers	177891	6640 (2.30-2.30)
RSRZ outliers	164620	5963 (2.30-2.30)

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



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
2	SIW	C	401[A]	-	-	X	-
2	SIW	C	403[B]	-	-	X	-

2 Entry composition [\(i\)](#)

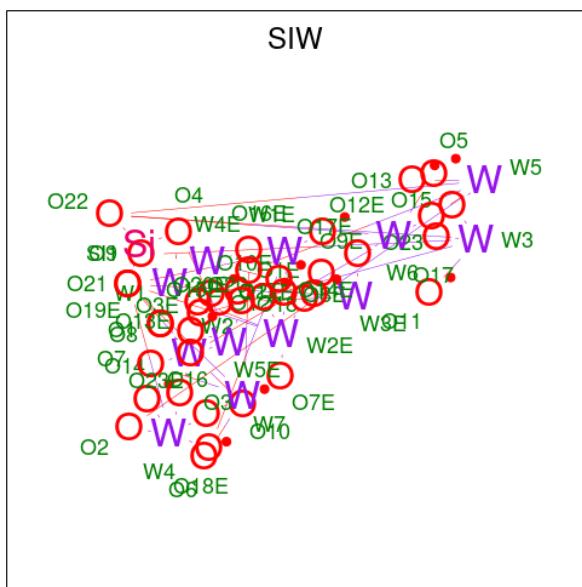
There are 3 unique types of molecules in this entry. The entry contains 8347 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Tako8.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	Trace
1	A	318	Total C N O 2419 1481 429 509	0	0	0
1	B	318	Total C N O 2419 1481 429 509	0	0	0
1	C	313	Total C N O 2384 1461 422 501	0	0	0

- Molecule 2 is Keggin (STA) (CCD ID: SIW) (formula: $O_{40}SiW_{12}$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total O Si W 106 80 2 24	0	1
2	A	1	Total O Si W 106 80 2 24	0	1
2	A	1	Total O Si W 53 40 1 12	0	0

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	O	Si	W	0	0
			53	40	1	12		
2	A	1	Total	O	Si	W	0	0
			53	40	1	12		
2	A	1	Total	O	Si	W	0	0
			53	40	1	12		
2	A	1	Total	O	Si	W	0	0
			53	40	1	12		
2	B	1	Total	O	Si	W	0	1
			106	80	2	24		
2	B	1	Total	O	Si	W	0	0
			53	40	1	12		
2	B	1	Total	O	Si	W	0	0
			53	40	1	12		
2	C	1	Total	O	Si	W	0	1
			106	80	2	24		
2	C	1	Total	O	Si	W	0	1
			106	80	2	24		
2	C	1	Total	O	Si	W	0	1
			106	80	2	24		
2	C	1	Total	O	Si	W	0	0
			53	40	1	12		

- Molecule 3 is water.

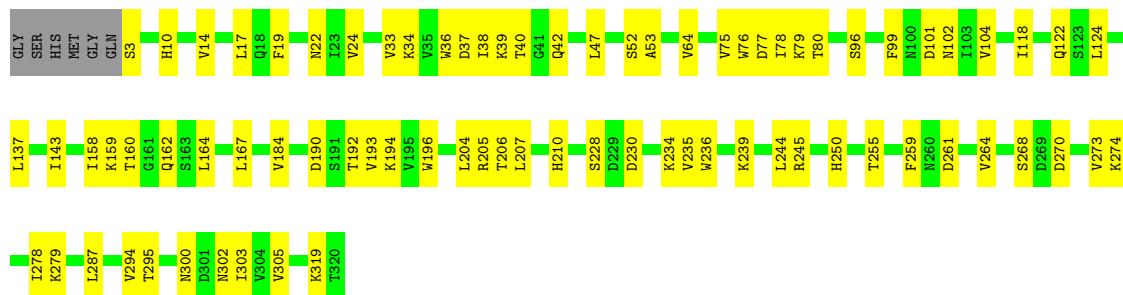
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	25	Total	O	0	0
			25	25		
3	B	18	Total	O	0	0
			18	18		
3	C	21	Total	O	0	1
			22	22		

3 Residue-property plots [i](#)

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

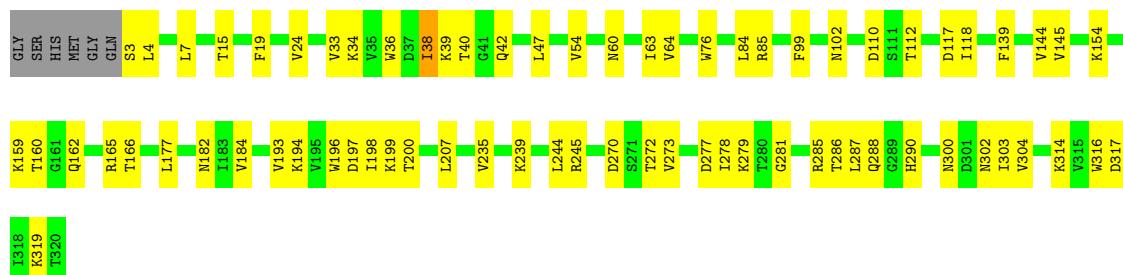
- Molecule 1: Tako8

Chain A:



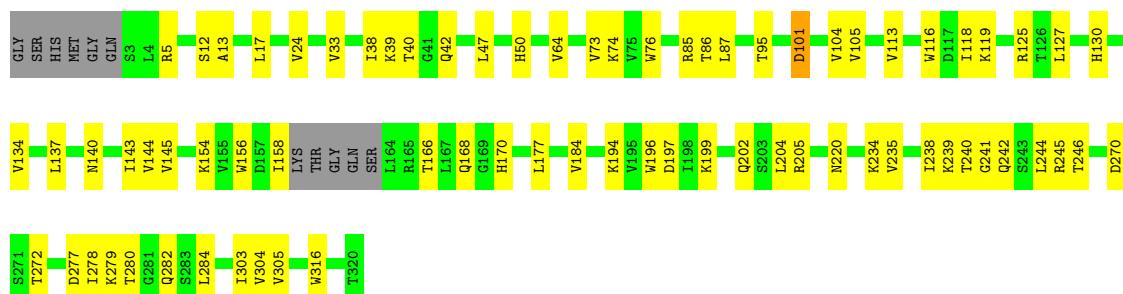
- Molecule 1: Tako8

Chain B:



- Molecule 1: Tako8

Chain C:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	94.55 Å 133.50 Å 81.75 Å 90.00° 125.27° 90.00°	Depositor
Resolution (Å)	47.20 – 2.30 47.20 – 2.30	Depositor EDS
% Data completeness (in resolution range)	99.9 (47.20-2.30) 99.6 (47.20-2.30)	Depositor EDS
R_{merge}	0.18	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle^1$	2.40 (at 2.29 Å)	Xtriage
Refinement program	PHENIX 1.15.2_3472	Depositor
R , R_{free}	0.241, 0.293 0.241, 0.292	Depositor DCC
R_{free} test set	1913 reflections (5.21%)	wwPDB-VP
Wilson B-factor (Å ²)	36.8	Xtriage
Anisotropy	0.105	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36, 26.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.35$	Xtriage
Estimated twinning fraction	0.457 for $-1/2^*h+1/2^*k-l, 3/2^*h+1/2^*k+l, 1/2^*h-1/2^*k$ 0.450 for $1/2^*h-1/2^*k+l, -1/2^*h+1/2^*k+l, -h$ 0.438 for $1/2^*h+1/2^*k+l, 1/2^*h+1/2^*k-l, -h$ 0.436 for $-1/2^*h-1/2^*k-l, -3/2^*h+1/2^*k-l, 1/2^*h+1/2^*k$ 0.469 for $-h, -h-2^*l, 1/2^*h-1/2^*k$ 0.469 for $-h, h+2^*l, 1/2^*h+1/2^*k$ 0.437 for $1/2^*h+1/2^*k+l, 3/2^*h-1/2^*k+l, -l$ 0.457 for $1/2^*h-1/2^*k+l, -3/2^*h-1/2^*k-l, -l$ 0.456 for $-1/2^*h+1/2^*k-l, 1/2^*h-1/2^*k+l, -1/2^*h-1/2^*k$ 0.438 for $-1/2^*h-1/2^*k-l, -1/2^*h-1/2^*k+l, -1/2^*h+1/2^*k$ 0.477 for $h, -k, -h-l$	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	8347	wwPDB-VP
Average B, all atoms (Å ²)	40.0	wwPDB-VP

¹Intensities estimated from amplitudes.

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

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 9.27% of the height of the origin peak. No significant pseudotranslation is detected.*

5 Model quality [\(i\)](#)

5.1 Standard geometry [\(i\)](#)

Bond lengths and bond angles in the following residue types are not validated in this section: SIW

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	0.16	0/2450	0.42	0/3332
1	B	0.15	0/2450	0.45	0/3332
1	C	0.16	0/2414	0.41	0/3283
All	All	0.16	0/7314	0.43	0/9947

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 [\(i\)](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2419	0	2364	58	0
1	B	2419	0	2364	44	1
1	C	2384	0	2327	48	1
2	A	477	0	0	27	1
2	B	212	0	0	16	1
2	C	371	0	0	46	0
3	A	25	0	0	1	0
3	B	18	0	0	0	0
3	C	22	0	0	1	0
All	All	8347	0	7055	221	2

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 14.

The worst 5 of 221 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:204:LEU:O	1:A:205:ARG:HD2	1.38	1.19
1:A:204:LEU:O	1:A:205:ARG:NH1	1.98	0.97
1:C:199:LYS:NZ	2:C:403[B]:SIW:O14E	2.02	0.92
2:A:402[A]:SIW:O13E	2:A:402[A]:SIW:SI1	2.71	0.79
1:B:285:ARG:NH1	1:B:317:ASP:O	2.16	0.77

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:319:LYS:NZ	2:B:403:SIW:O16E[2_655]	2.17	0.03
1:C:101:ASP:O	2:A:401[B]:SIW:O14E[2_655]	2.18	0.02

5.3 Torsion angles [\(i\)](#)

5.3.1 Protein backbone [\(i\)](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	316/324 (98%)	288 (91%)	27 (8%)	1 (0%)	37 47
1	B	316/324 (98%)	286 (90%)	29 (9%)	1 (0%)	37 47
1	C	309/324 (95%)	283 (92%)	25 (8%)	1 (0%)	37 47
All	All	941/972 (97%)	857 (91%)	81 (9%)	3 (0%)	37 47

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	102	ASN

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Mol	Chain	Res	Type
1	C	101	ASP
1	B	38	ILE

5.3.2 Protein sidechains [\(i\)](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	287/291 (99%)	287 (100%)	0	100 100
1	B	287/291 (99%)	286 (100%)	1 (0%)	91 96
1	C	283/291 (97%)	283 (100%)	0	100 100
All	All	857/873 (98%)	856 (100%)	1 (0%)	92 97

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	302	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 9 such sidechains are listed below:

Mol	Chain	Res	Type
1	C	142	ASN
1	C	168	GLN
1	B	20	ASN
1	B	142	ASN
1	C	8	GLN

5.3.3 RNA [\(i\)](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [\(i\)](#)

There are no oligosaccharides in this entry.

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

20 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
2	SIW	A	407	2	16,76,76	3.71	13 (81%)	0,234,234	-	-
2	SIW	A	401[B]	1	16,76,76	3.78	13 (81%)	0,234,234	-	-
2	SIW	A	401[A]	1	16,76,76	3.81	13 (81%)	0,234,234	-	-
2	SIW	C	401[B]	1	16,76,76	3.70	13 (81%)	0,234,234	-	-
2	SIW	A	403	2,1	16,76,76	3.69	14 (87%)	0,234,234	-	-
2	SIW	A	402[B]	-	16,76,76	3.72	13 (81%)	0,234,234	-	-
2	SIW	A	402[A]	-	16,76,76	3.75	12 (75%)	0,234,234	-	-
2	SIW	C	401[A]	-	16,76,76	3.75	13 (81%)	0,234,234	-	-
2	SIW	B	401[B]	1	16,76,76	3.75	13 (81%)	0,234,234	-	-
2	SIW	B	401[A]	1	16,76,76	3.71	13 (81%)	0,234,234	-	-
2	SIW	C	402[B]	-	16,76,76	3.74	13 (81%)	0,234,234	-	-
2	SIW	C	402[A]	-	16,76,76	3.73	13 (81%)	0,234,234	-	-
2	SIW	A	406	-	16,76,76	3.70	13 (81%)	0,234,234	-	-
2	SIW	B	403	1	16,76,76	3.68	13 (81%)	0,234,234	-	-
2	SIW	A	404	2	16,76,76	3.71	13 (81%)	0,234,234	-	-
2	SIW	C	403[A]	-	16,76,76	3.72	13 (81%)	0,234,234	-	-
2	SIW	C	403[B]	1	16,76,76	3.73	13 (81%)	0,234,234	-	-
2	SIW	A	405	1	16,76,76	3.73	13 (81%)	0,234,234	-	-
2	SIW	C	404	2	16,76,76	3.70	13 (81%)	0,234,234	-	-
2	SIW	B	402	-	16,76,76	3.78	13 (81%)	0,234,234	-	-

The worst 5 of 260 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	402	SIW	SI1-O19E	-9.38	1.45	1.62
2	A	401[A]	SIW	SI1-O19E	-9.34	1.45	1.62
2	A	401[B]	SIW	SI1-O19E	-9.33	1.45	1.62
2	C	401[A]	SIW	SI1-O19E	-9.32	1.45	1.62
2	A	402[A]	SIW	SI1-O19E	-9.26	1.45	1.62

There are no bond angle outliers.

There are no chirality outliers.

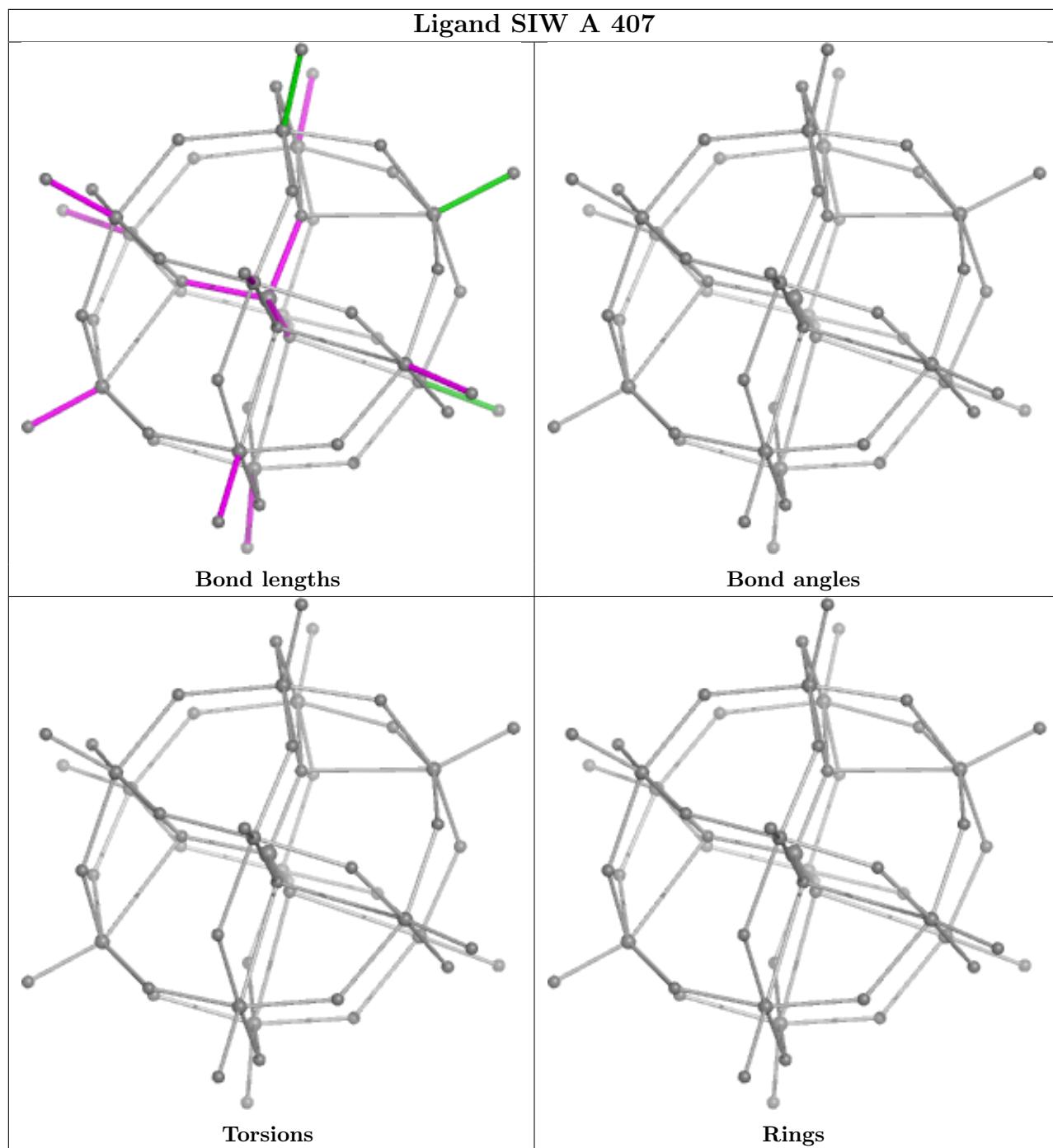
There are no torsion outliers.

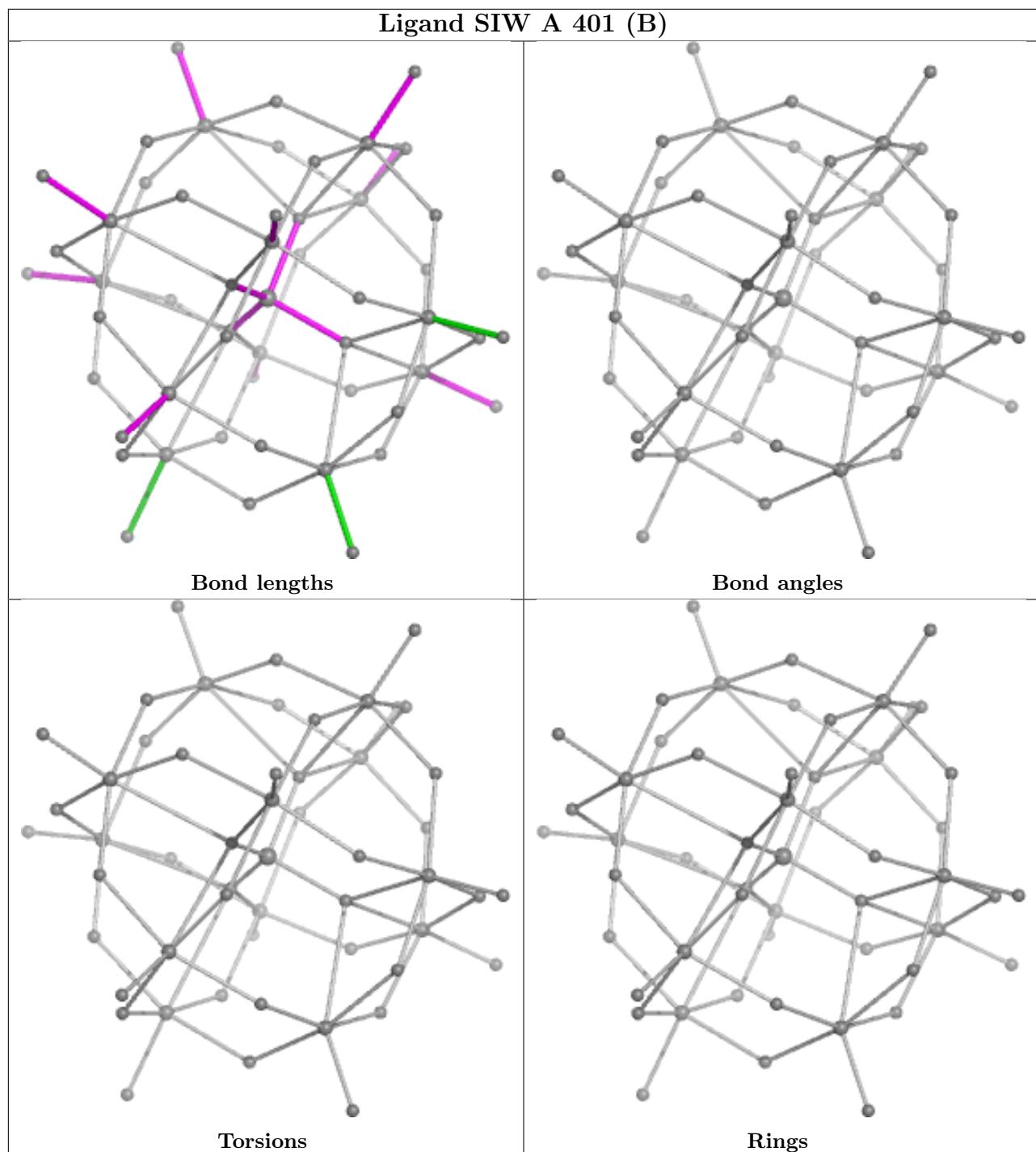
There are no ring outliers.

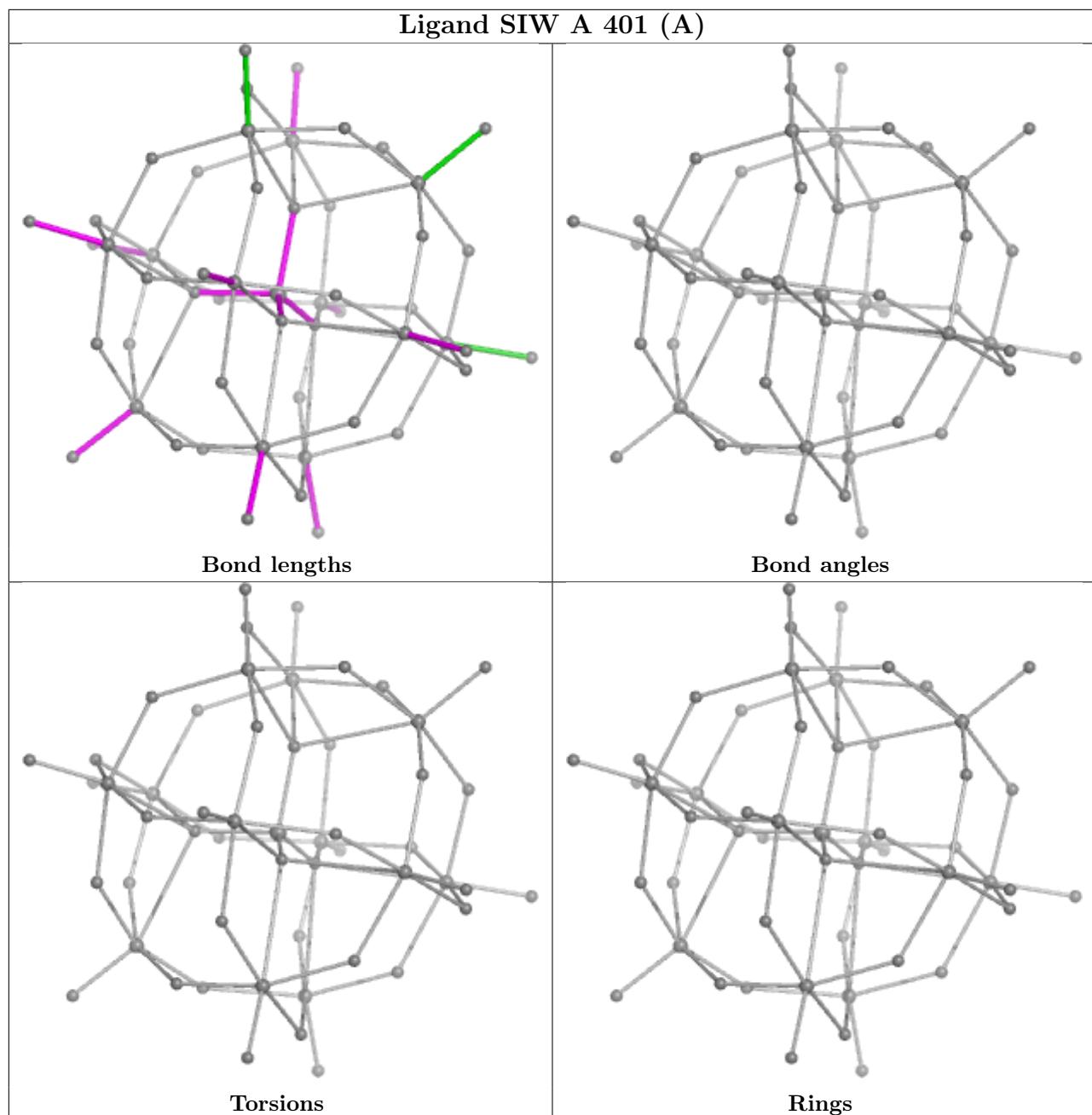
14 monomers are involved in 91 short contacts:

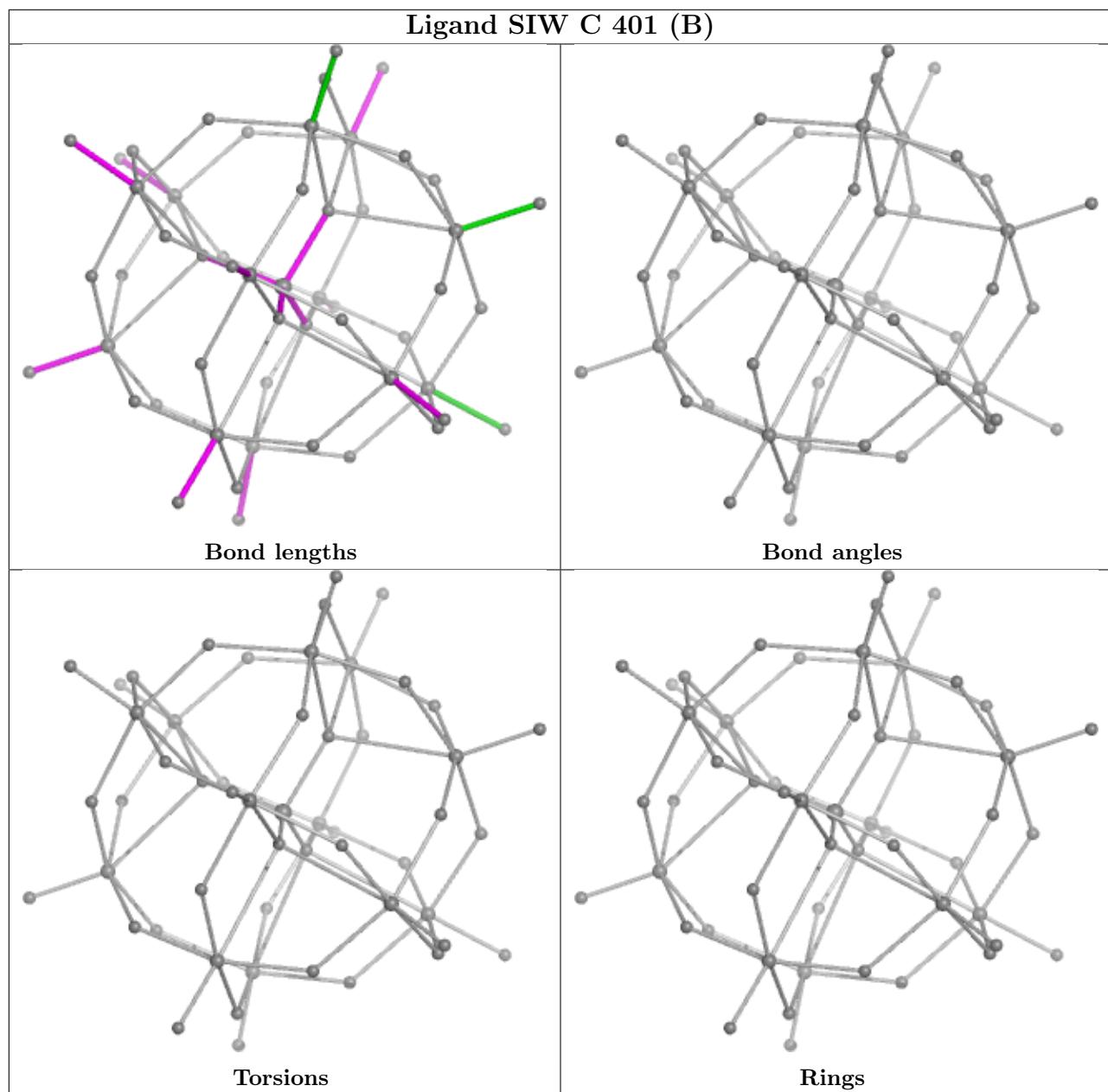
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	401[B]	SIW	6	1
2	A	401[A]	SIW	7	0
2	C	401[B]	SIW	8	0
2	A	402[B]	SIW	6	0
2	A	402[A]	SIW	7	0
2	C	401[A]	SIW	9	0
2	B	401[B]	SIW	8	0
2	B	401[A]	SIW	6	0
2	C	402[B]	SIW	7	0
2	C	402[A]	SIW	7	0
2	B	403	SIW	2	1
2	C	403[A]	SIW	6	0
2	C	403[B]	SIW	9	0
2	A	405	SIW	1	0

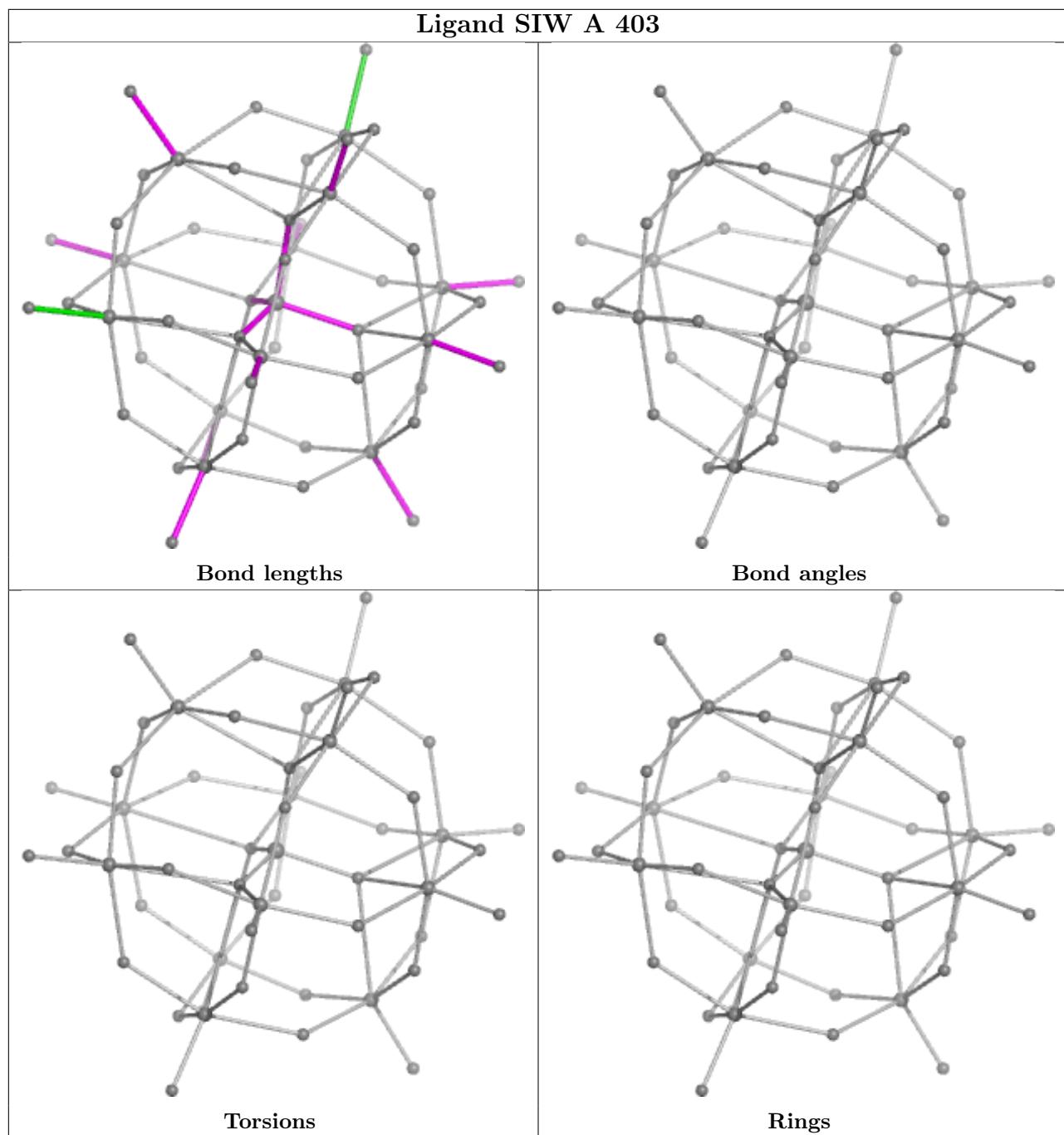
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

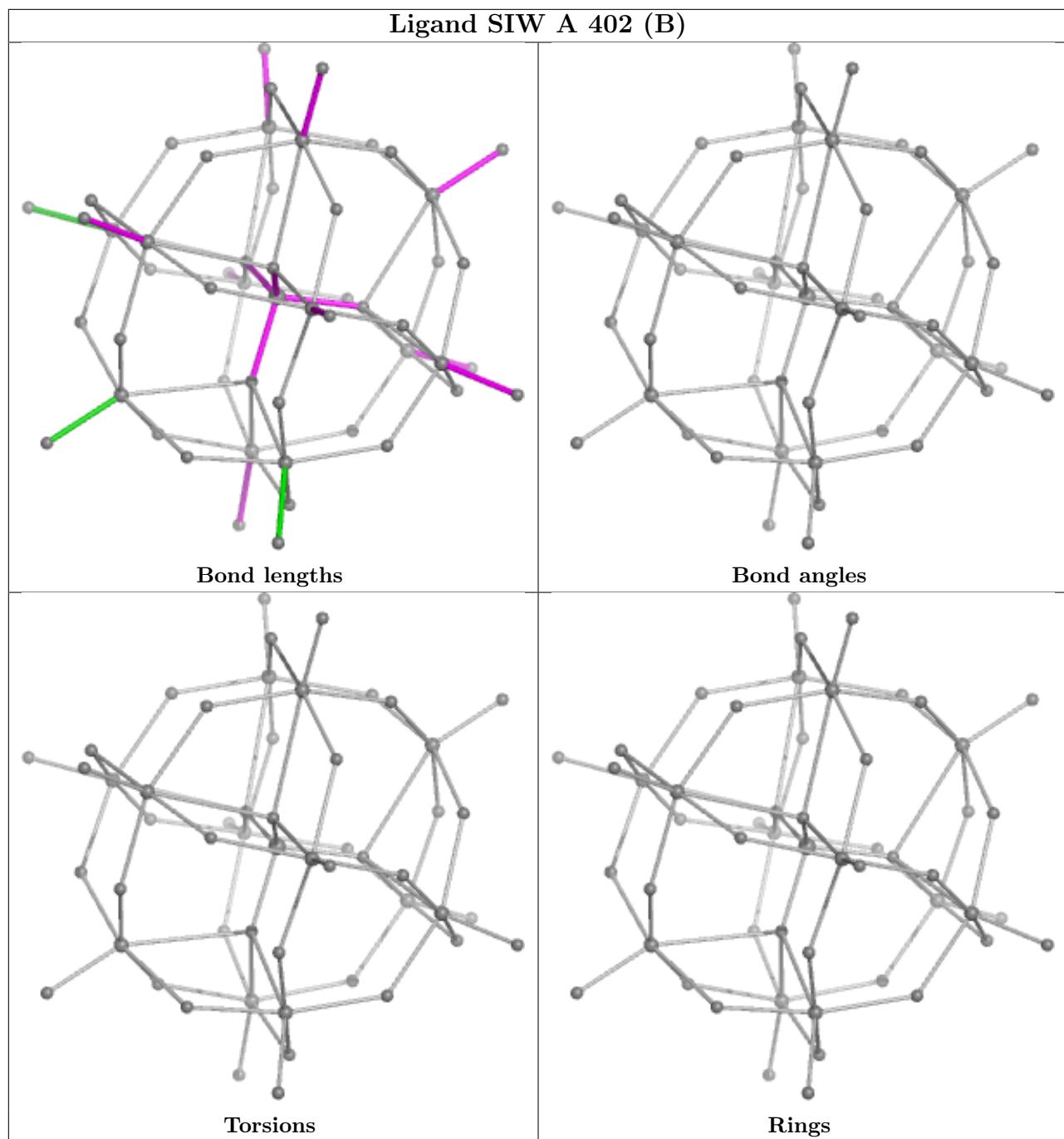


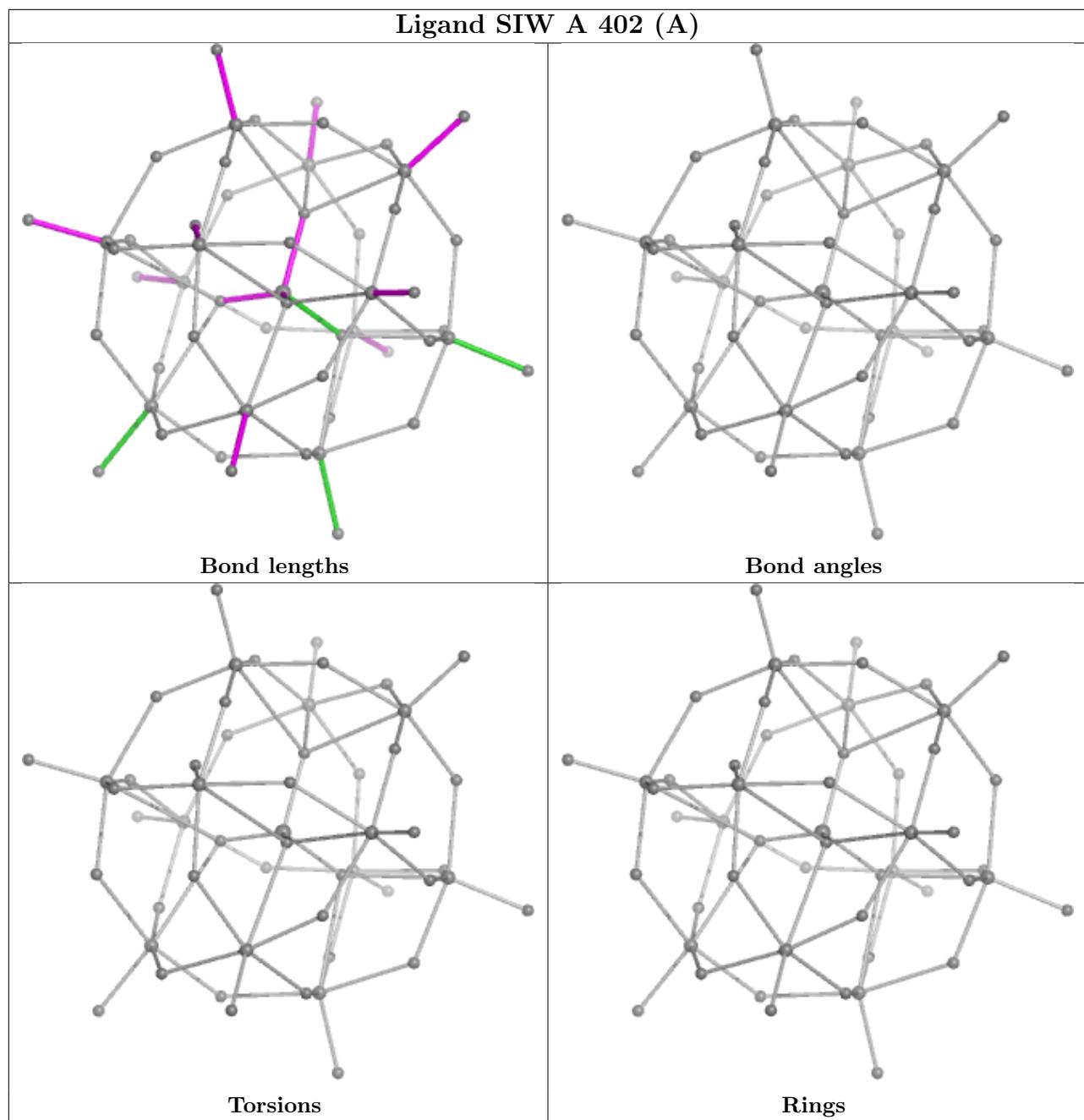


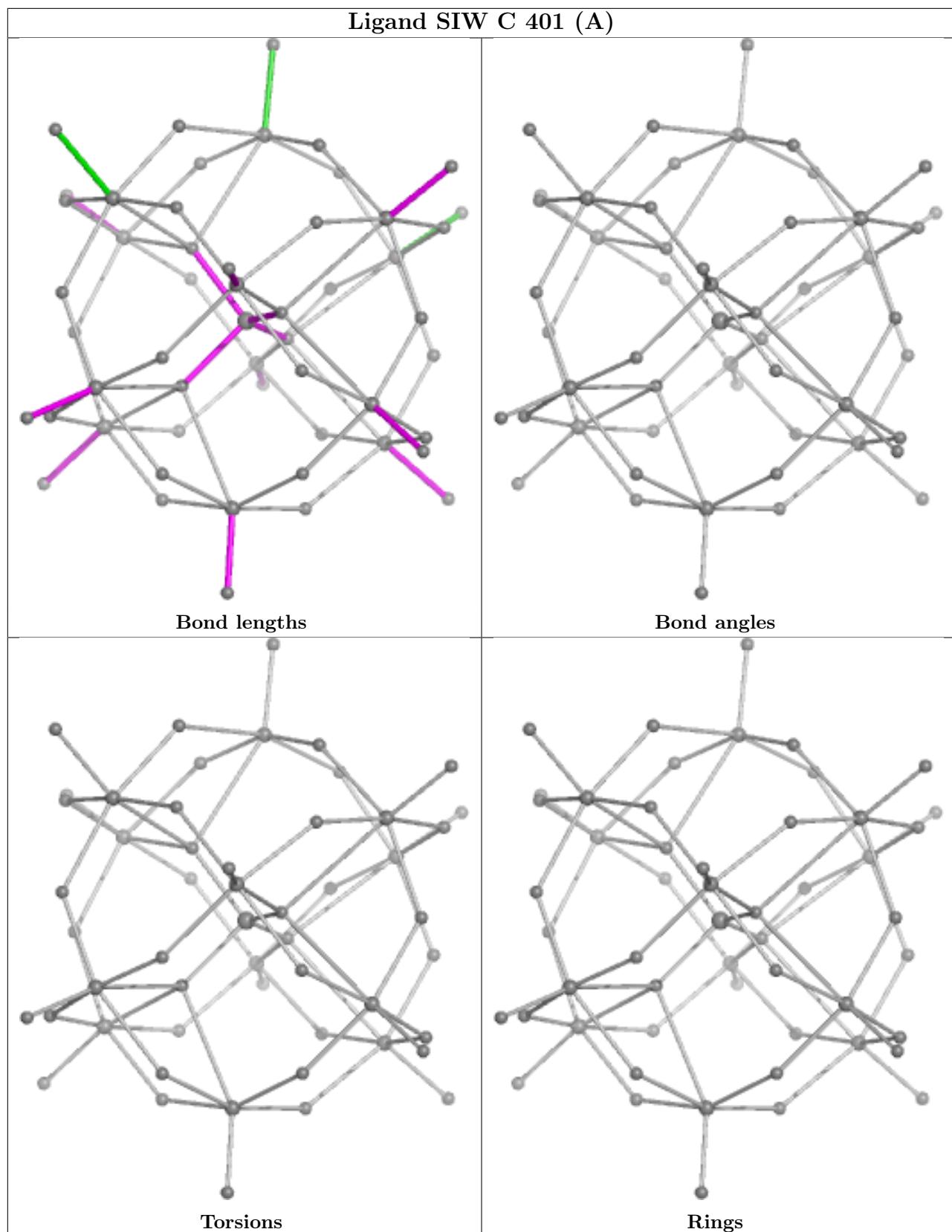


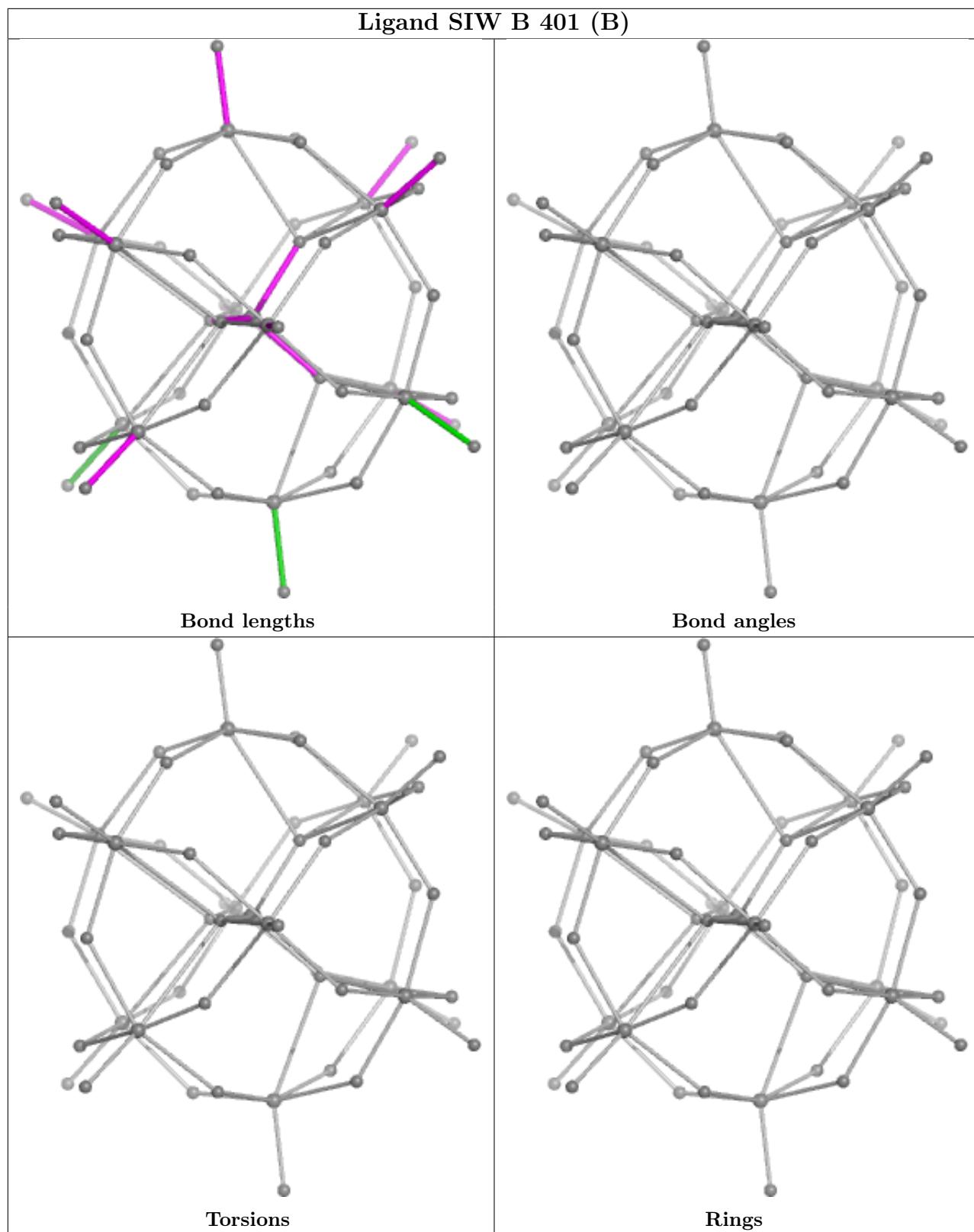


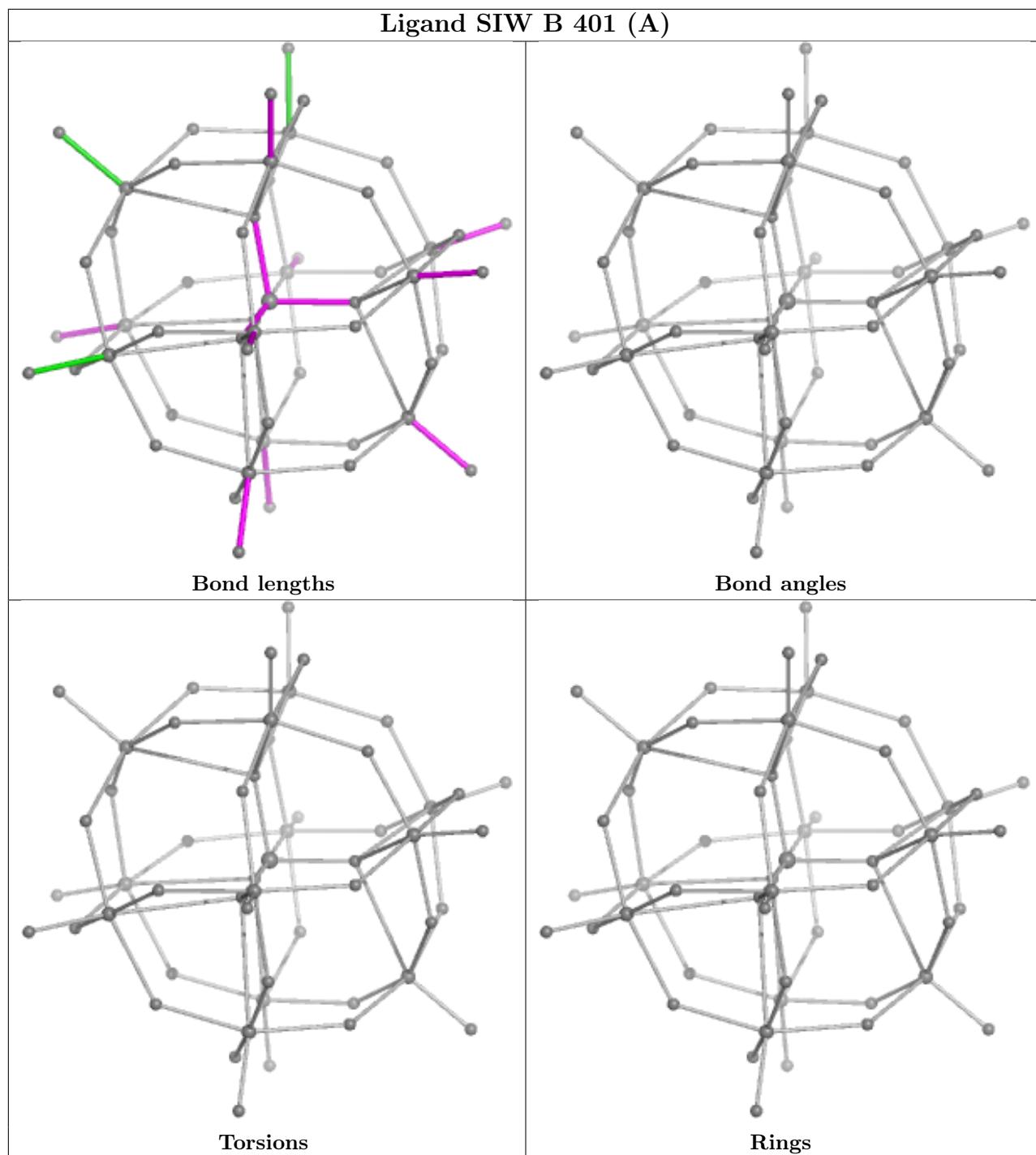


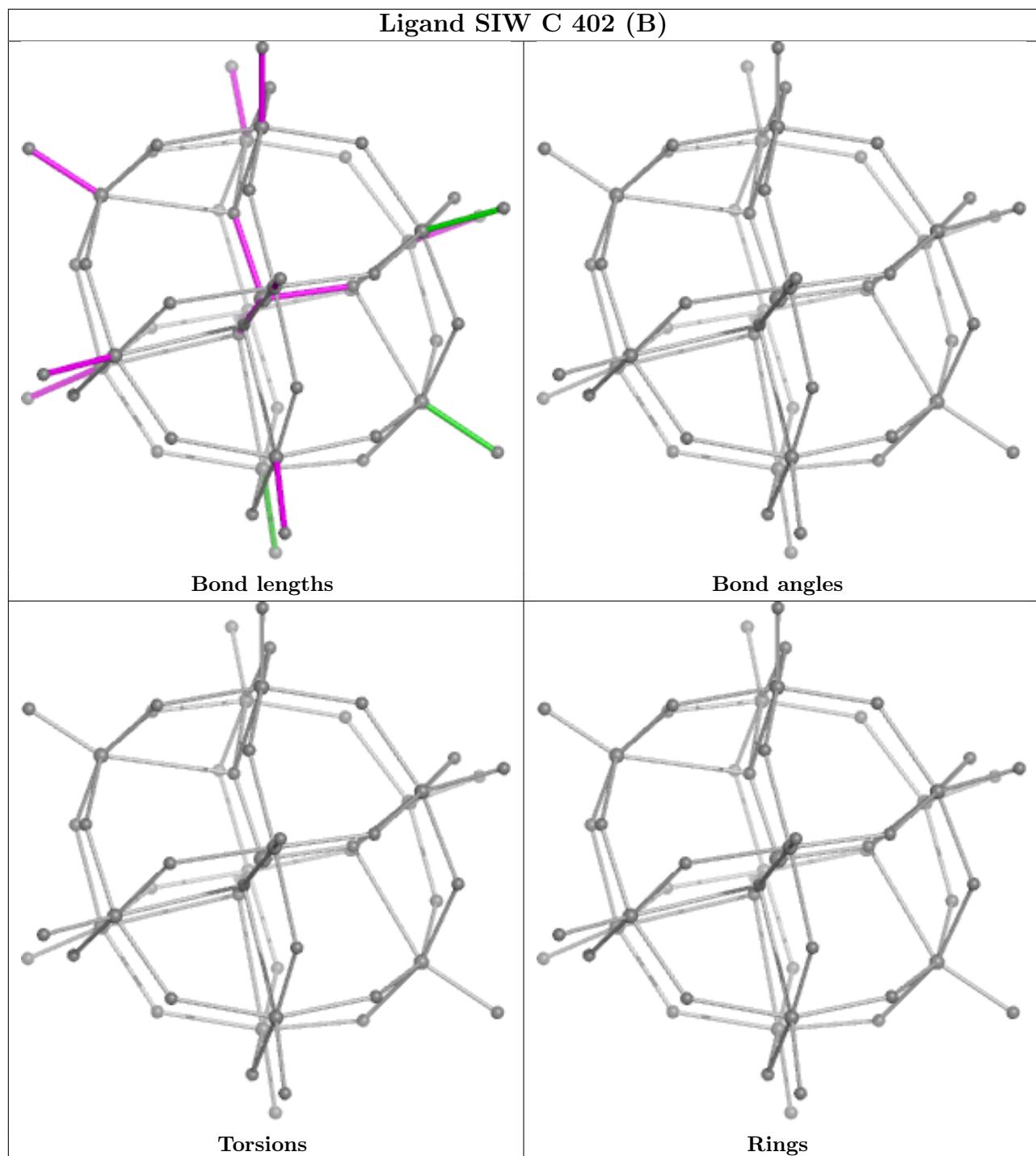


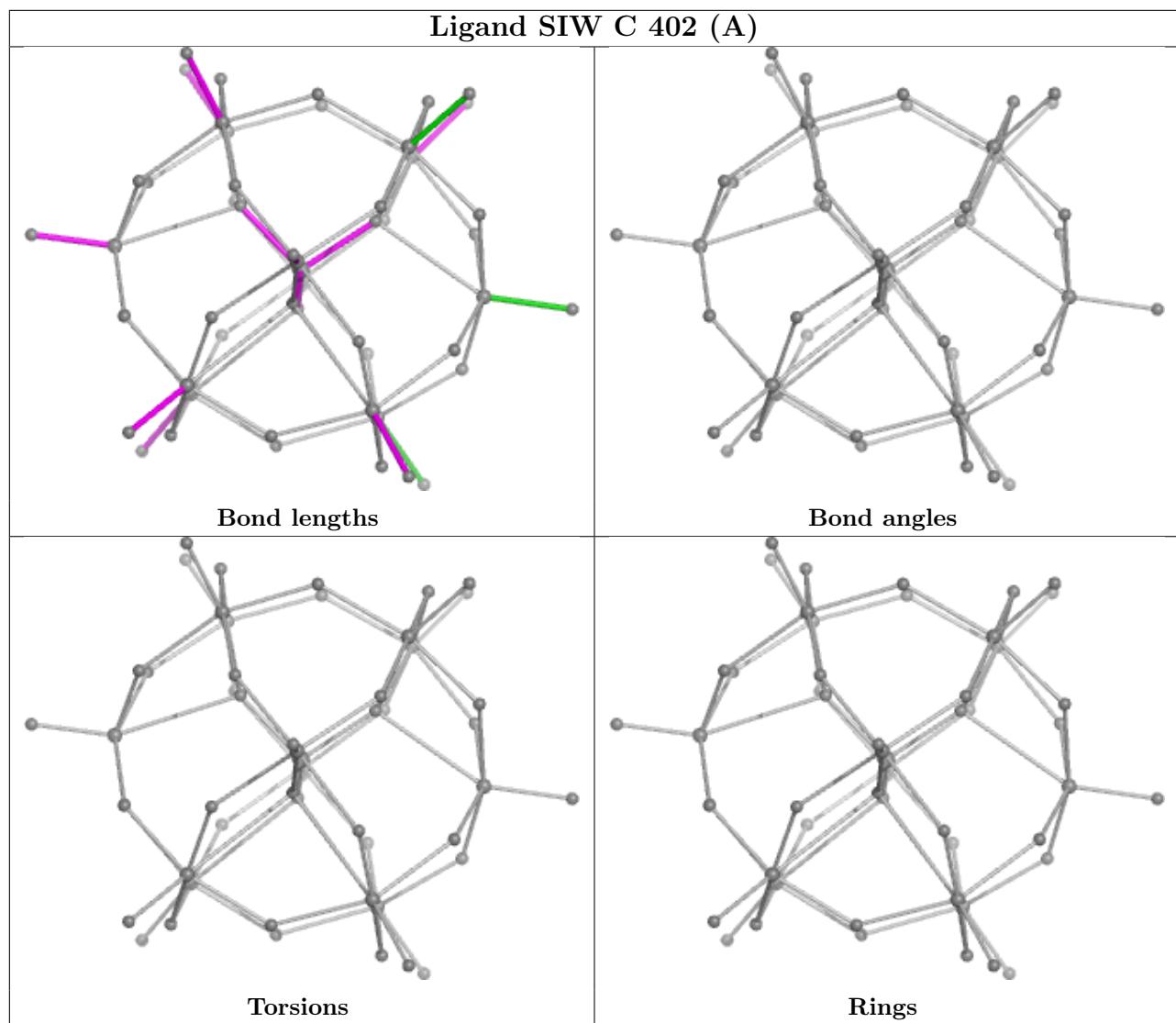


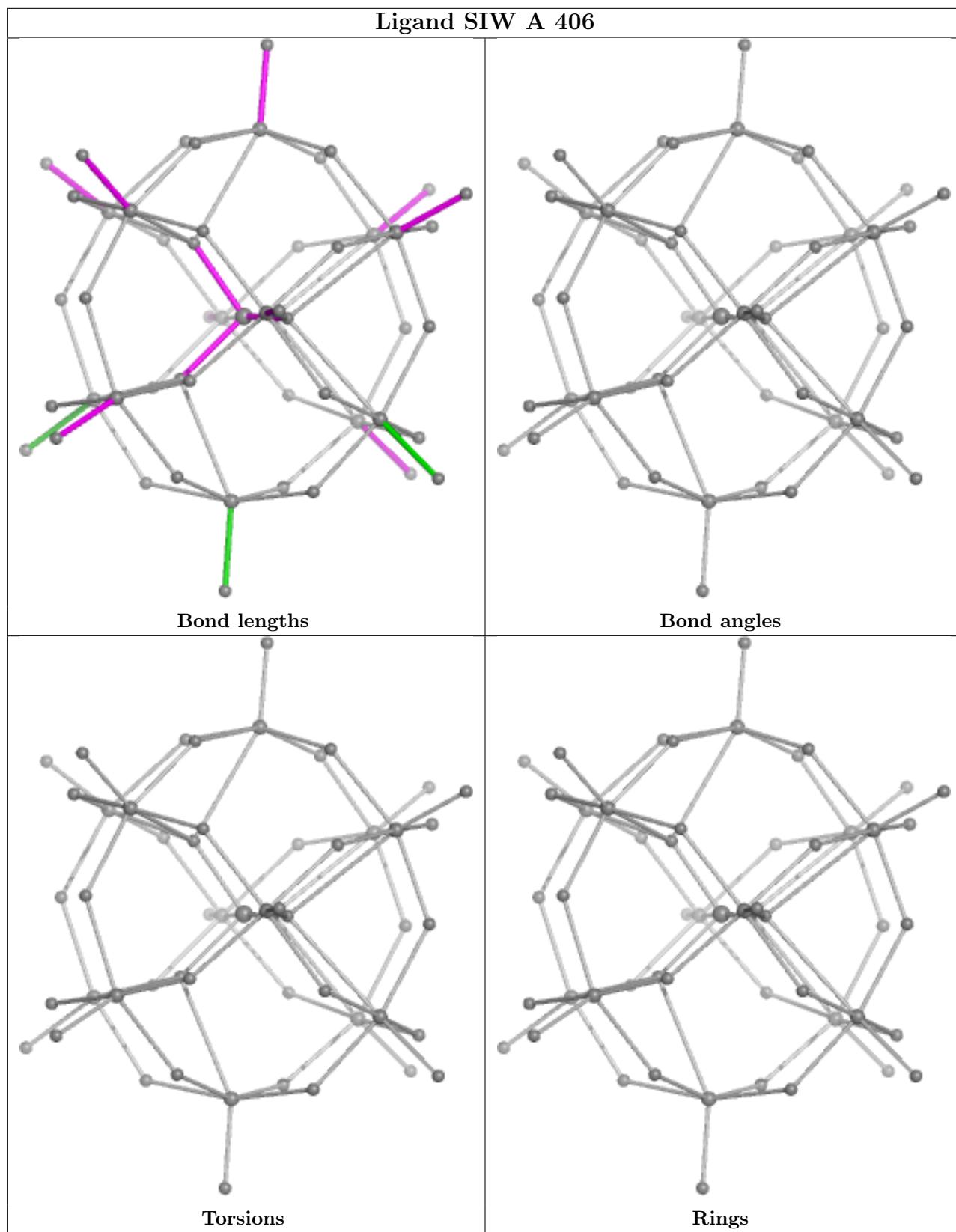


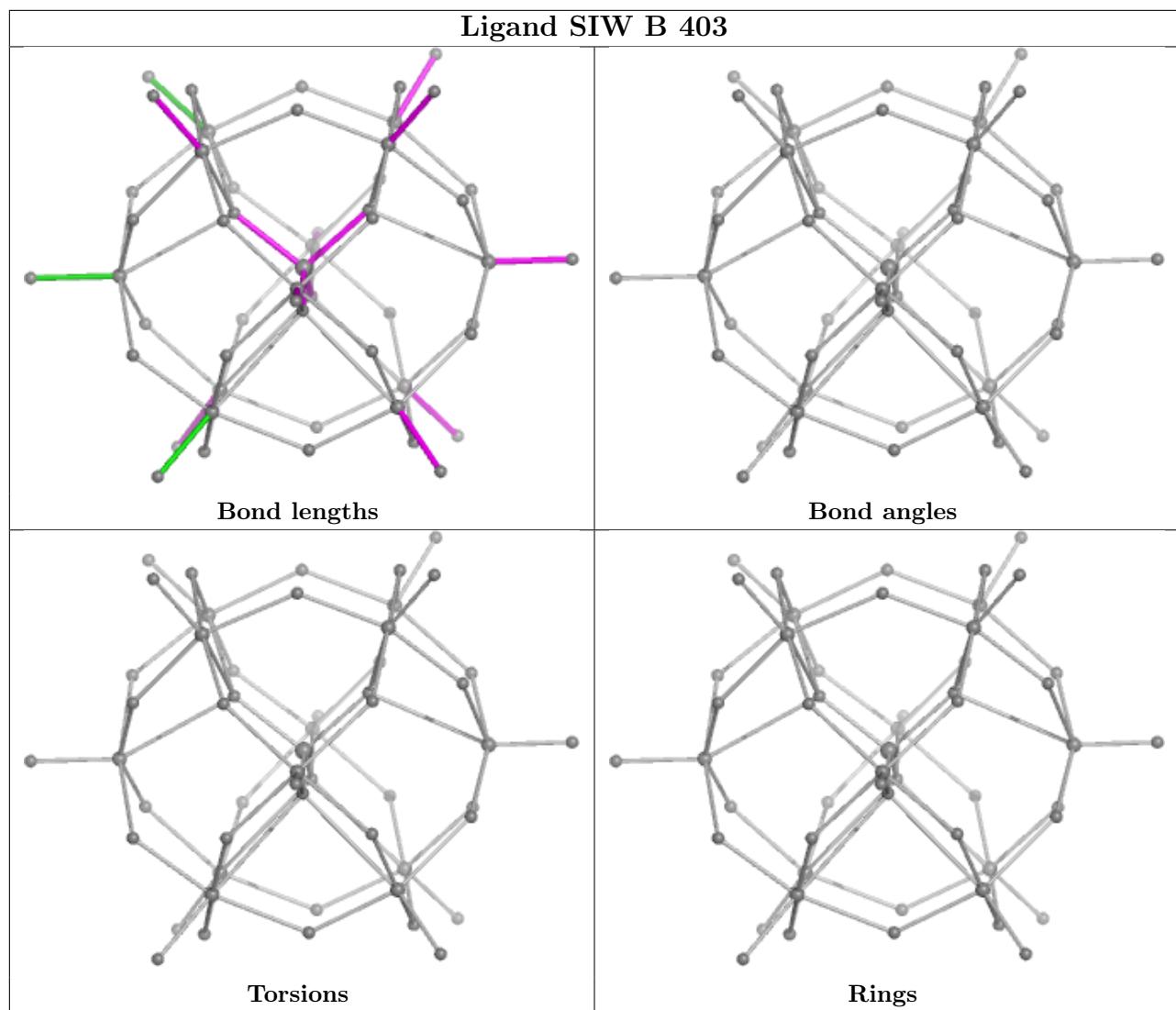


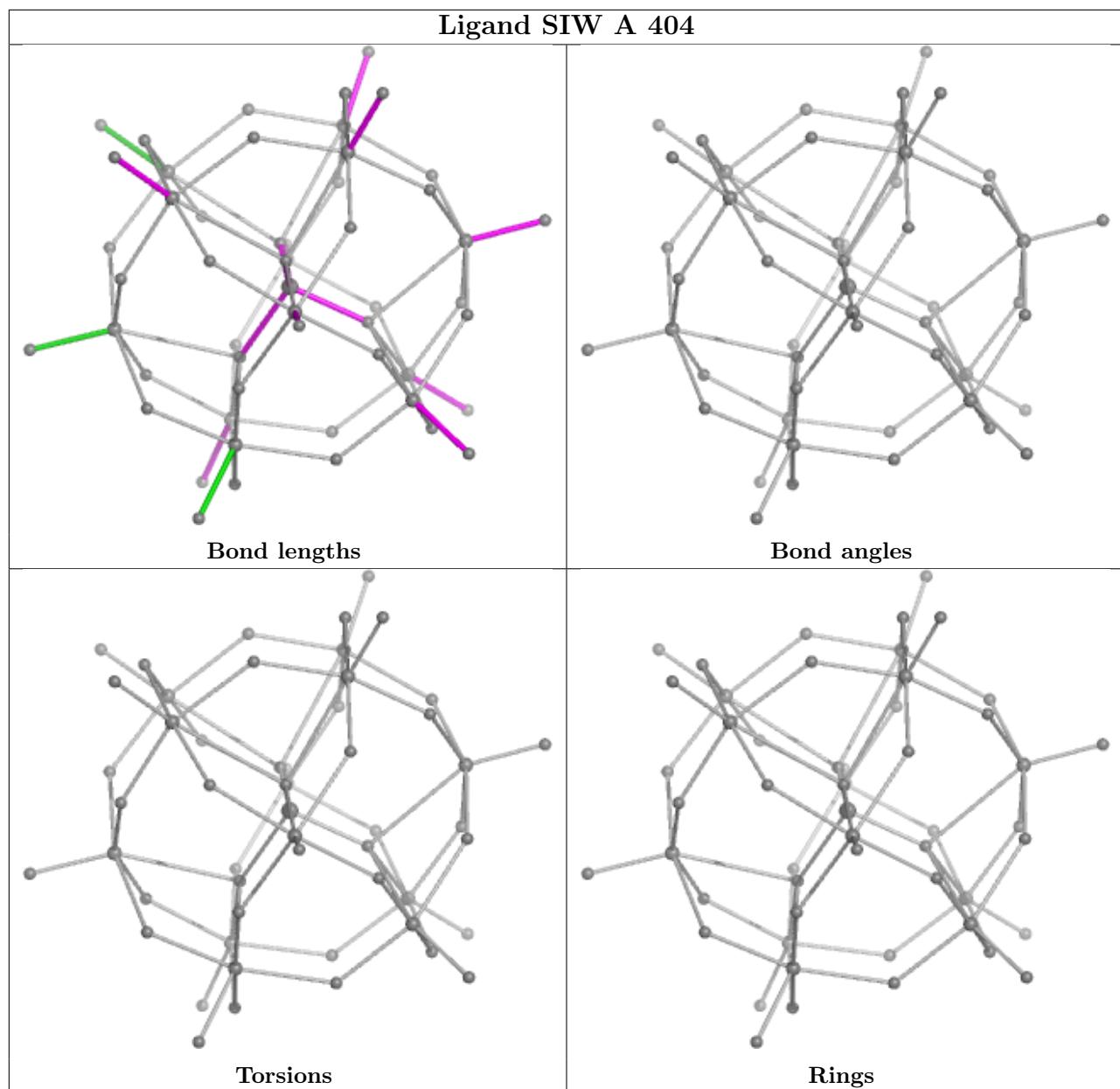


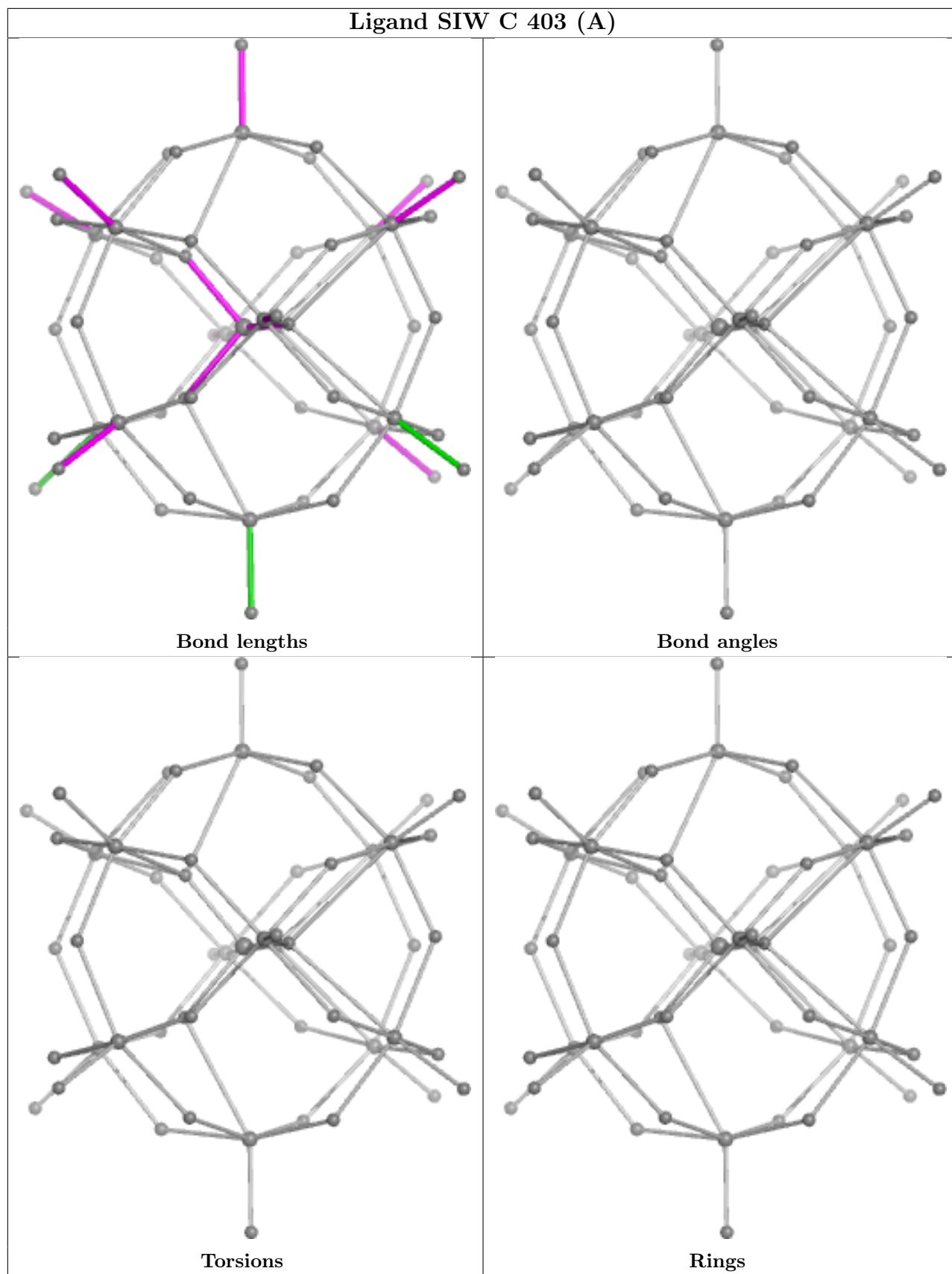


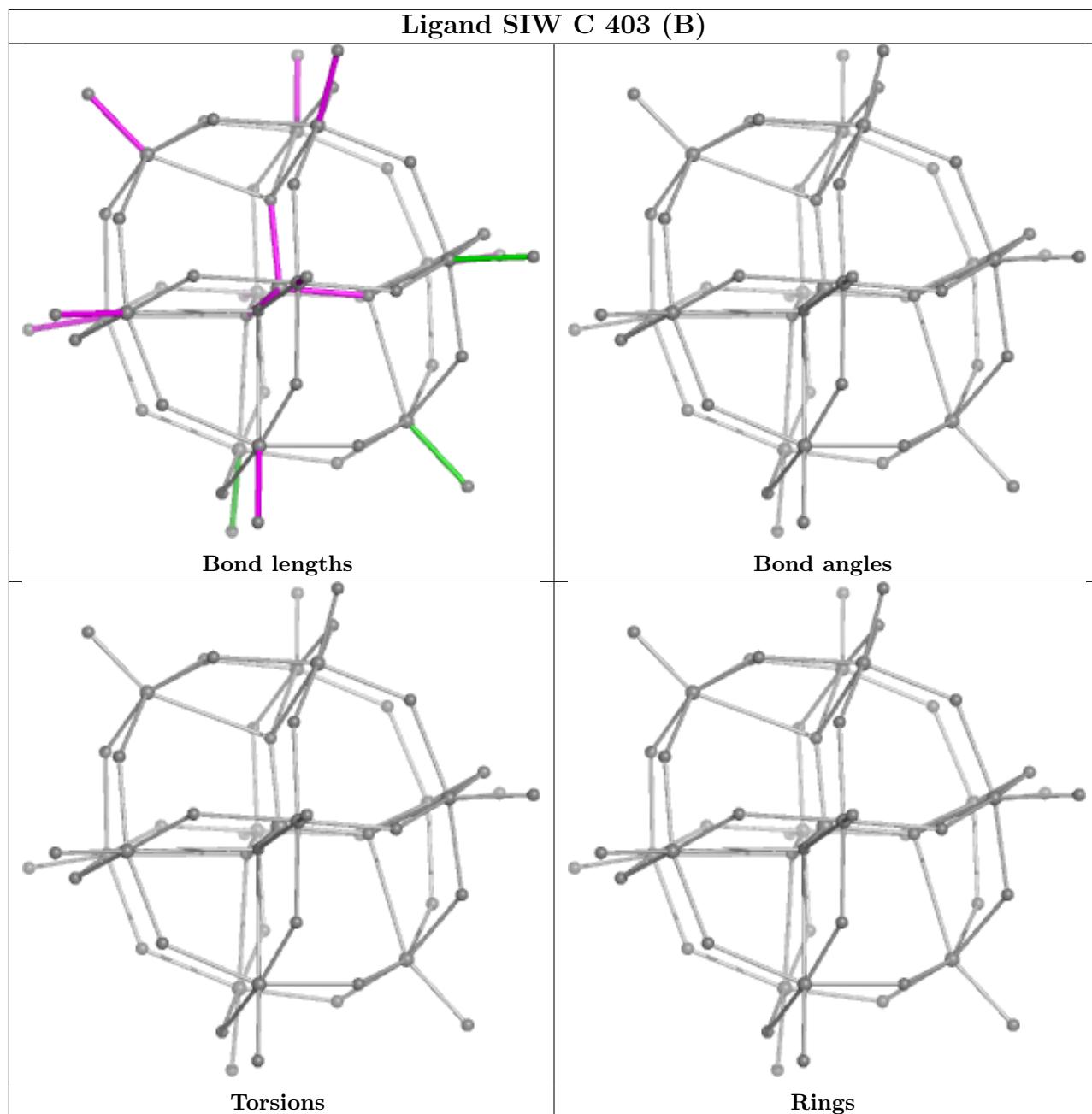


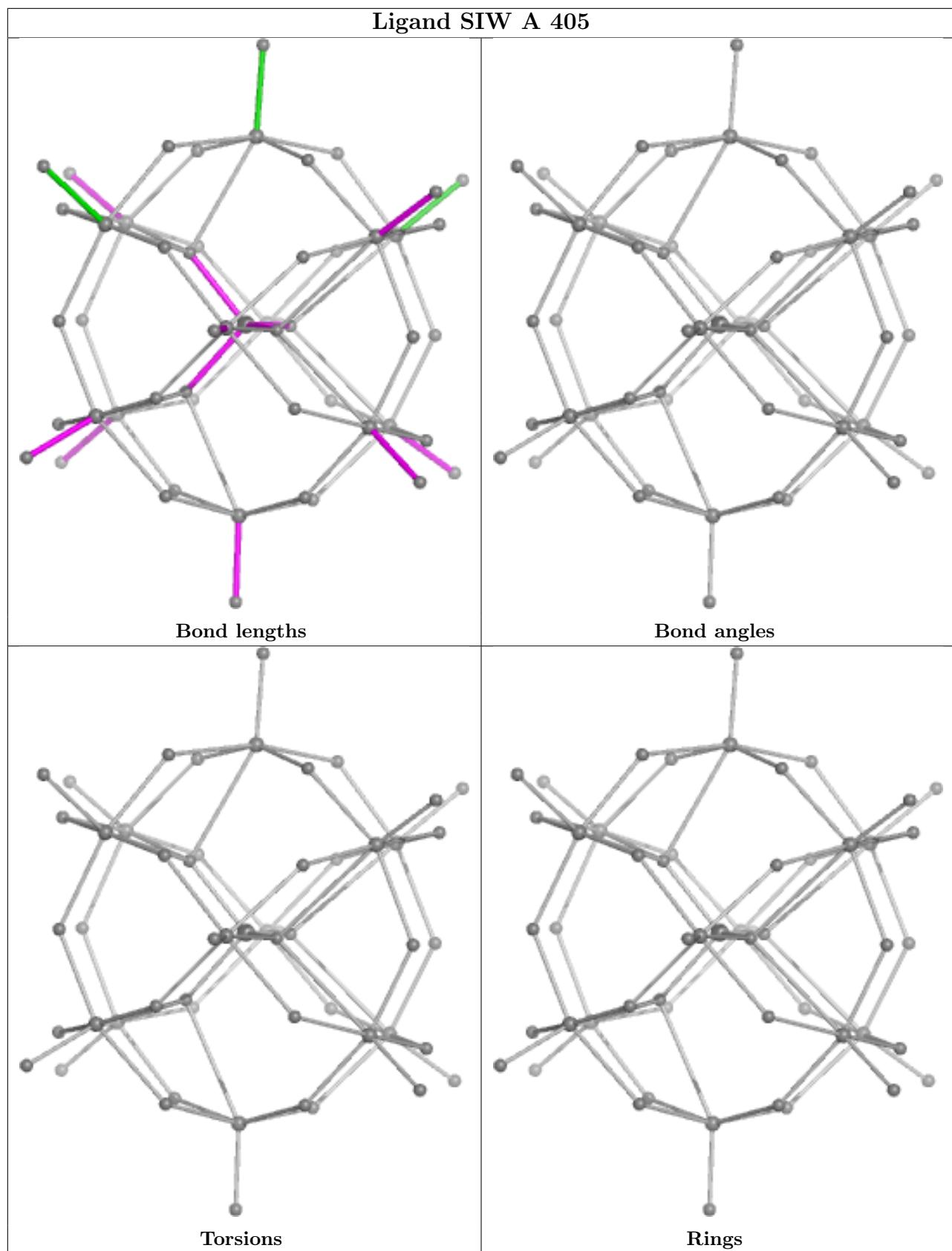


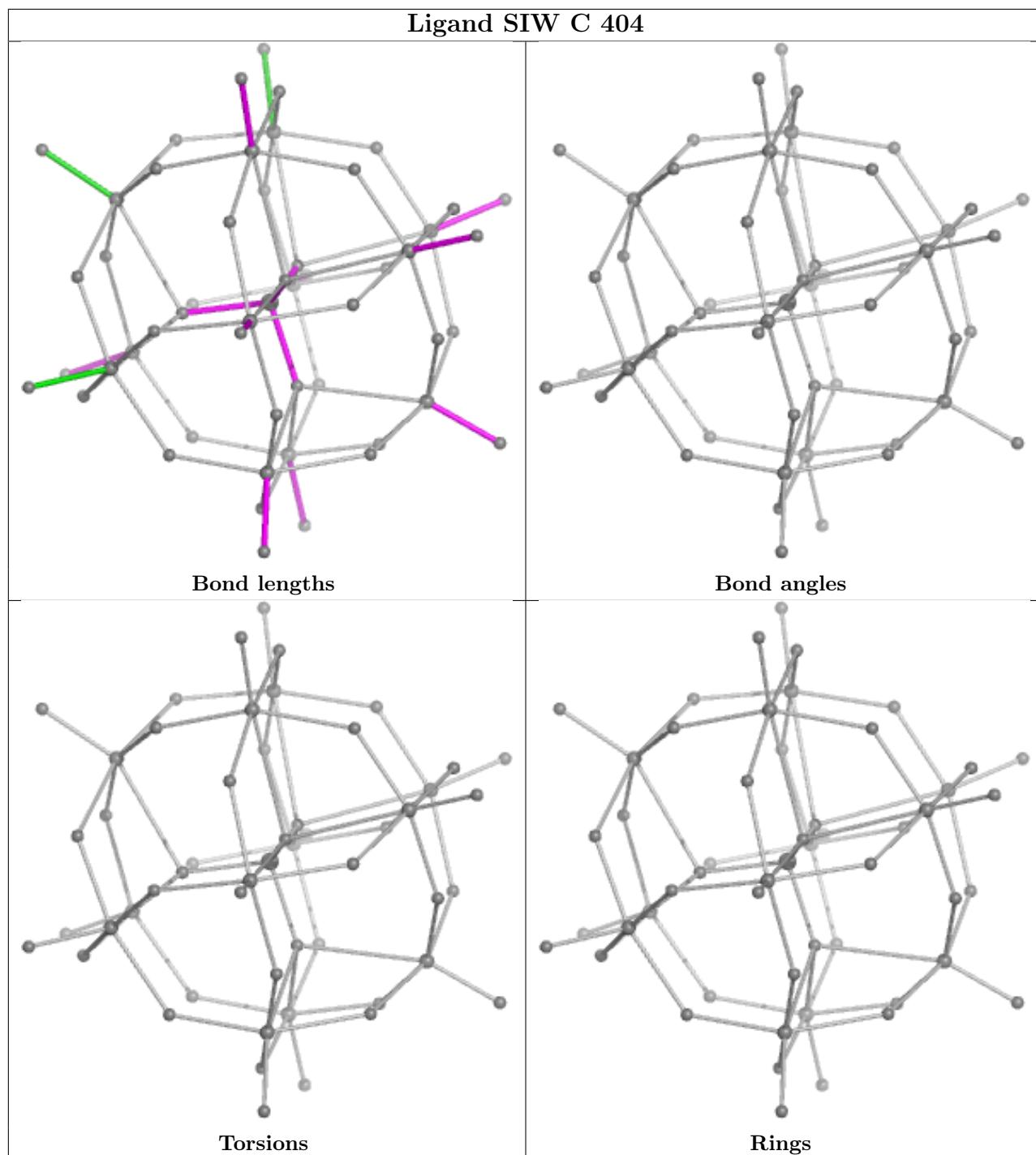


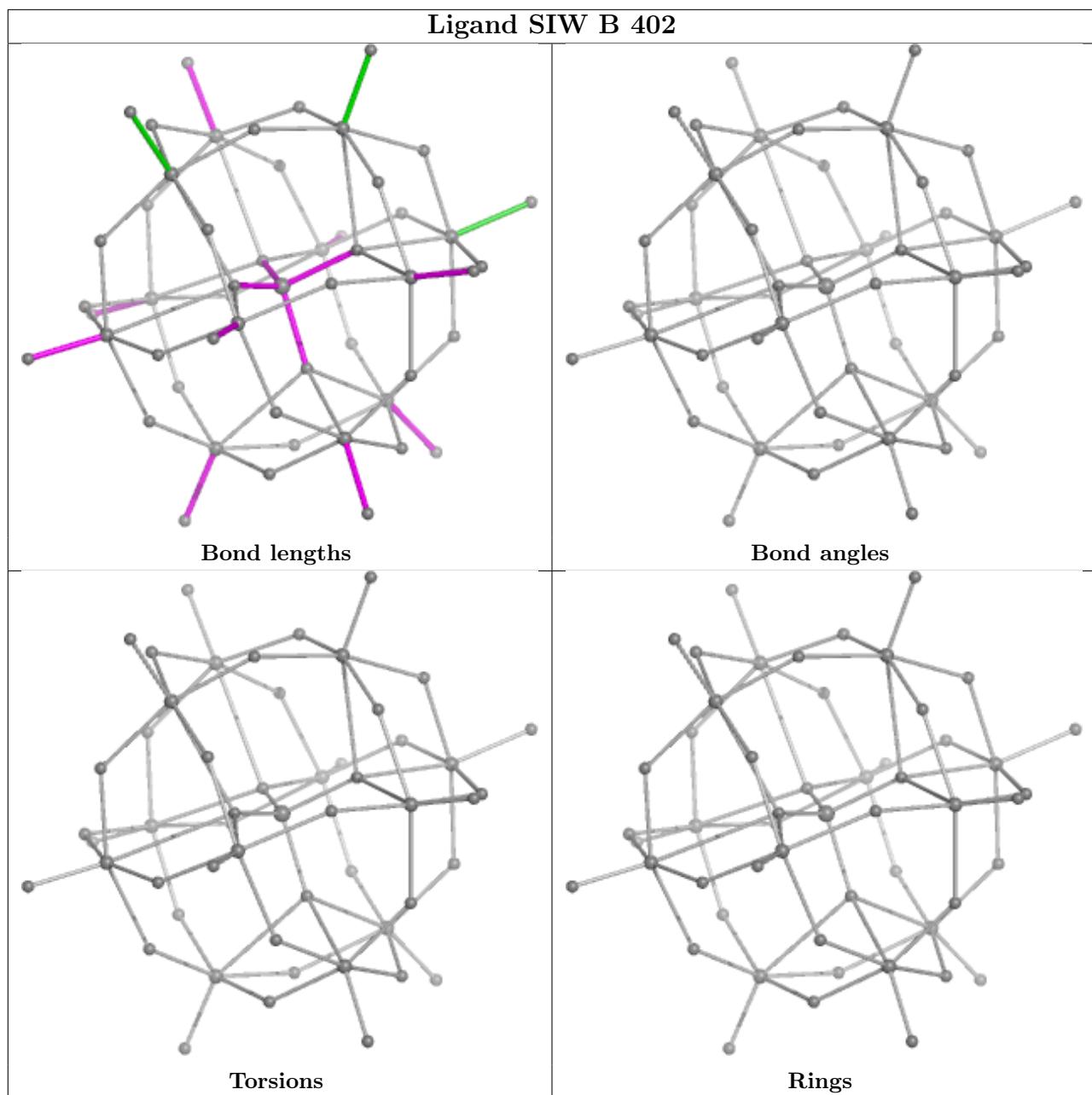












5.7 Other polymers [\(i\)](#)

There are no such residues in this entry.

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

There are no chain breaks in this entry.

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

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

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	318/324 (98%)	-1.16	0 100 100	20, 34, 53, 61	22 (6%)
1	B	318/324 (98%)	-1.19	0 100 100	21, 35, 55, 69	16 (5%)
1	C	313/324 (96%)	-1.14	0 100 100	24, 35, 54, 61	23 (7%)
All	All	949/972 (97%)	-1.16	0 100 100	20, 35, 54, 69	61 (6%)

There are no RSRZ outliers to report.

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

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

6.3 Carbohydrates [\(i\)](#)

There are no oligosaccharides in this entry.

6.4 Ligands [\(i\)](#)

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

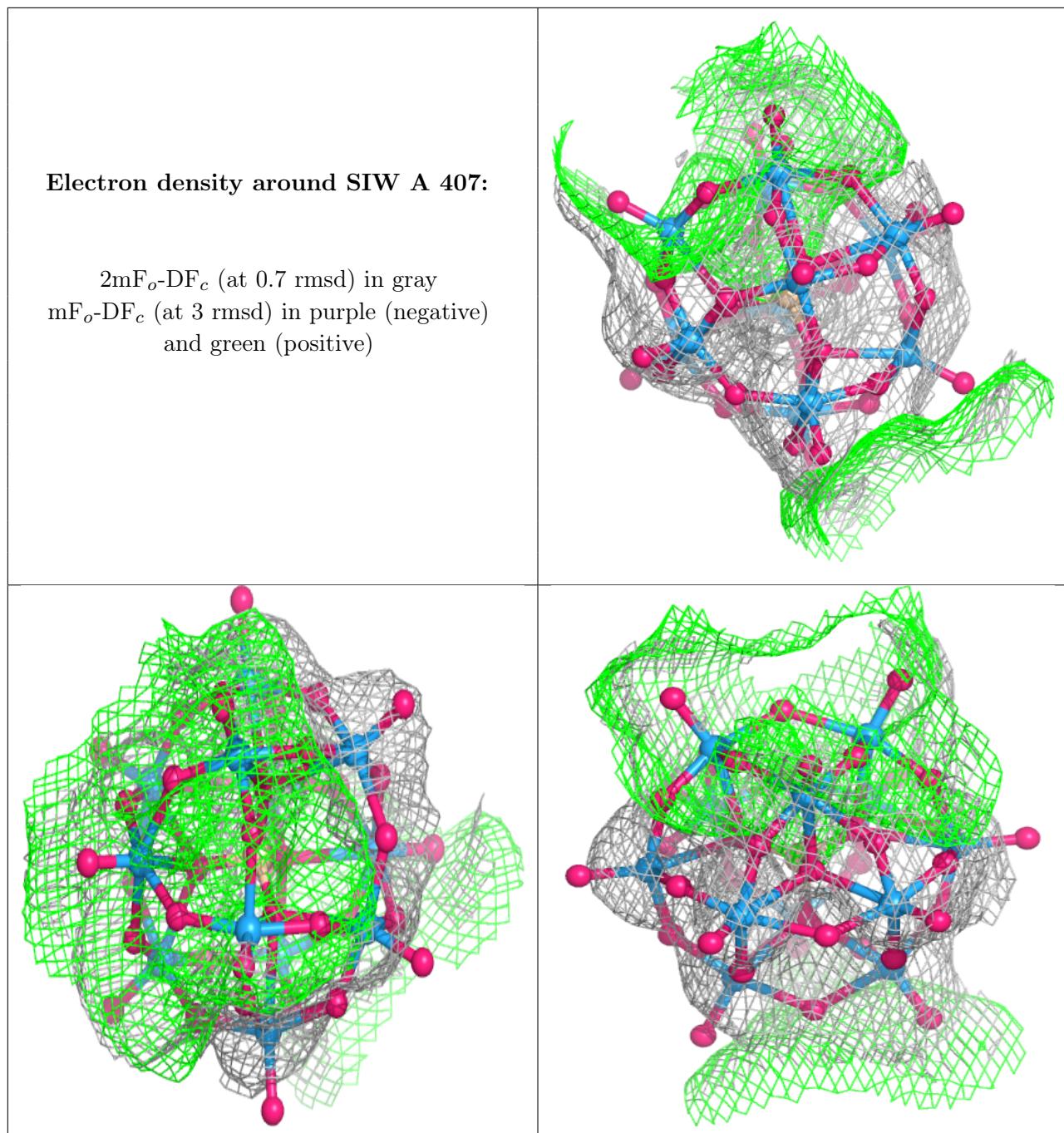
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	SIW	A	407	53/53	0.95	0.08	65,65,65,65	53
2	SIW	A	406	53/53	0.96	0.07	75,75,75,75	53
2	SIW	A	403	53/53	0.97	0.07	65,65,65,65	53
2	SIW	A	404	53/53	0.97	0.05	65,65,65,65	53
2	SIW	B	403	53/53	0.97	0.06	65,65,65,65	53

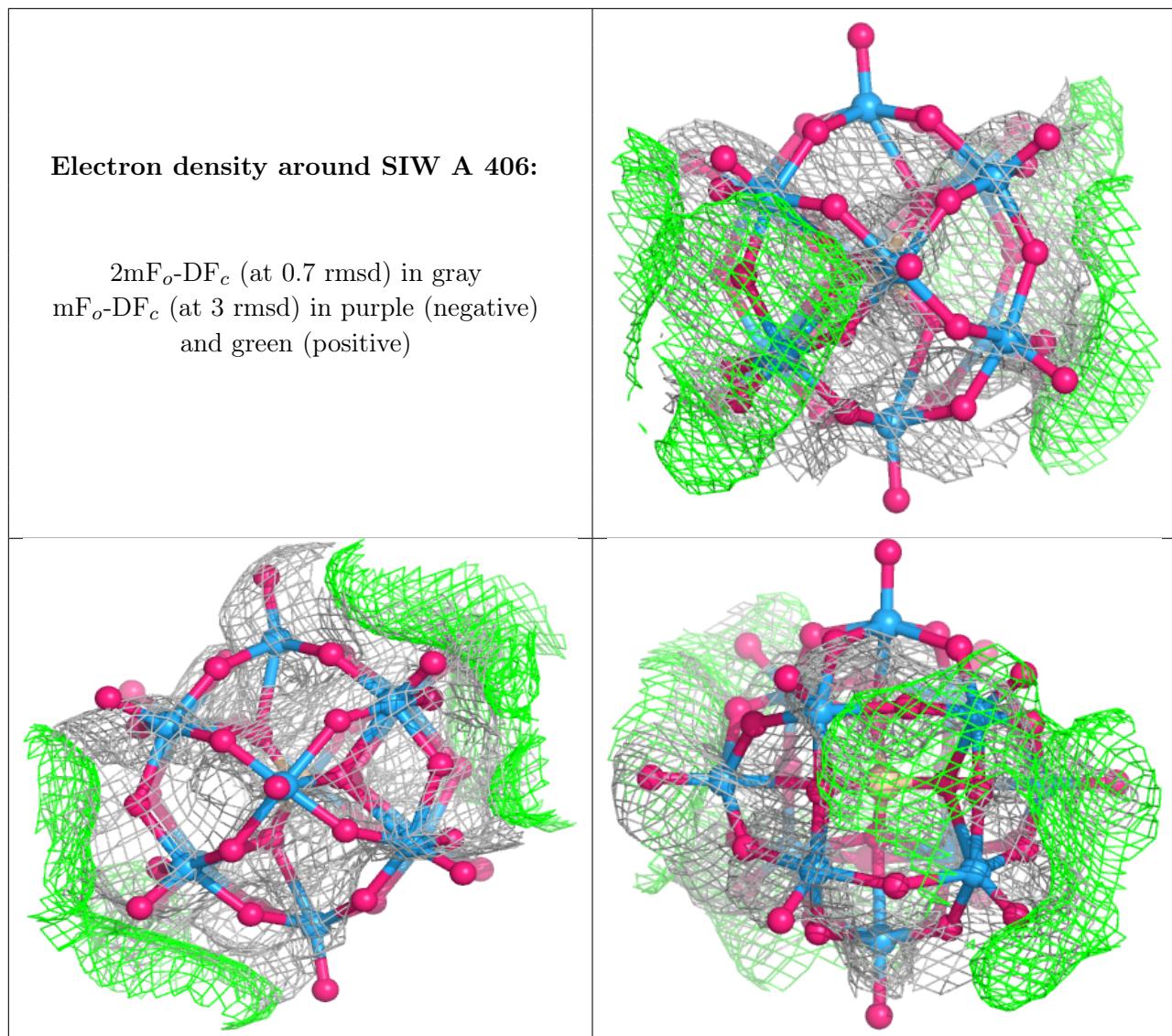
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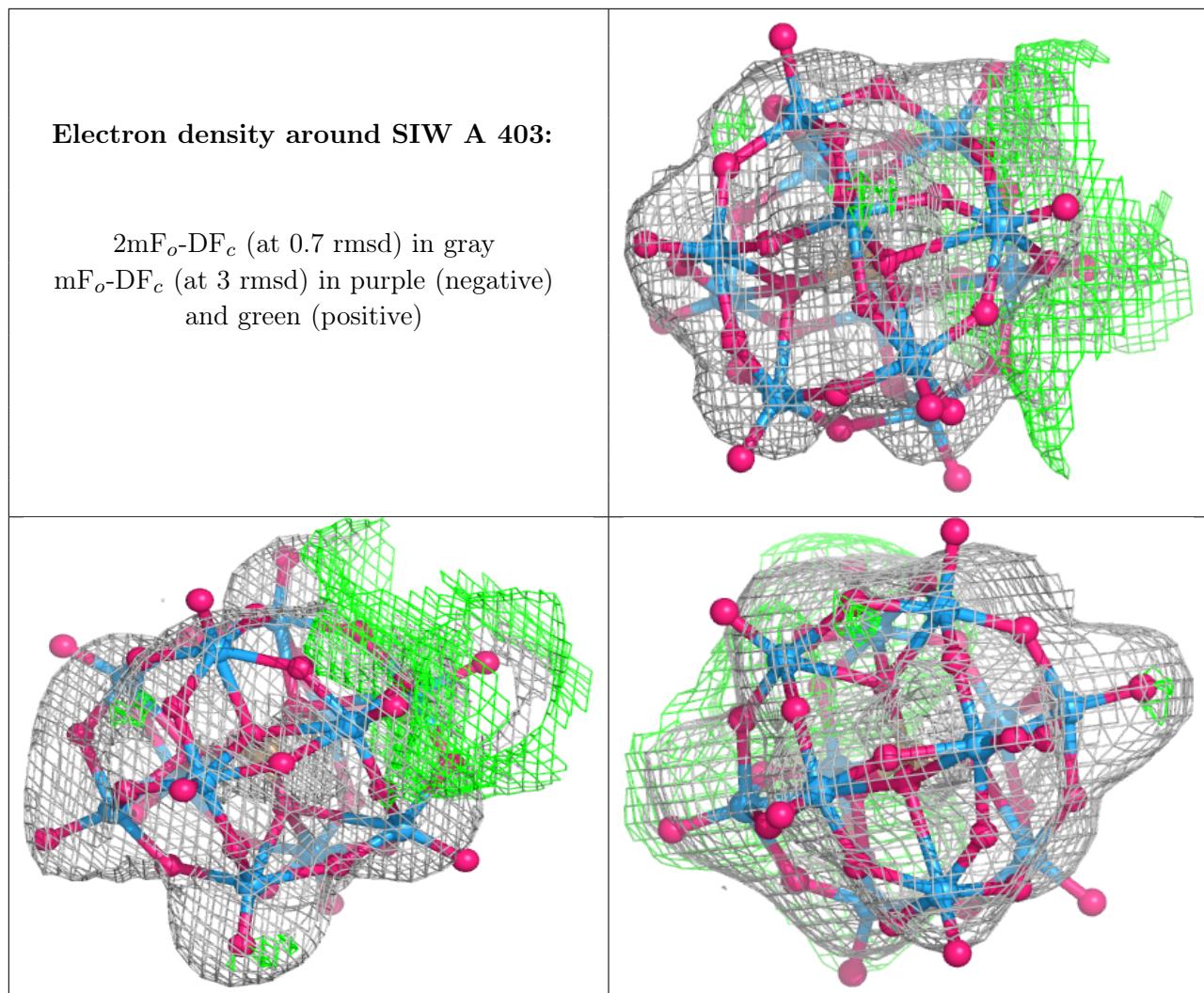
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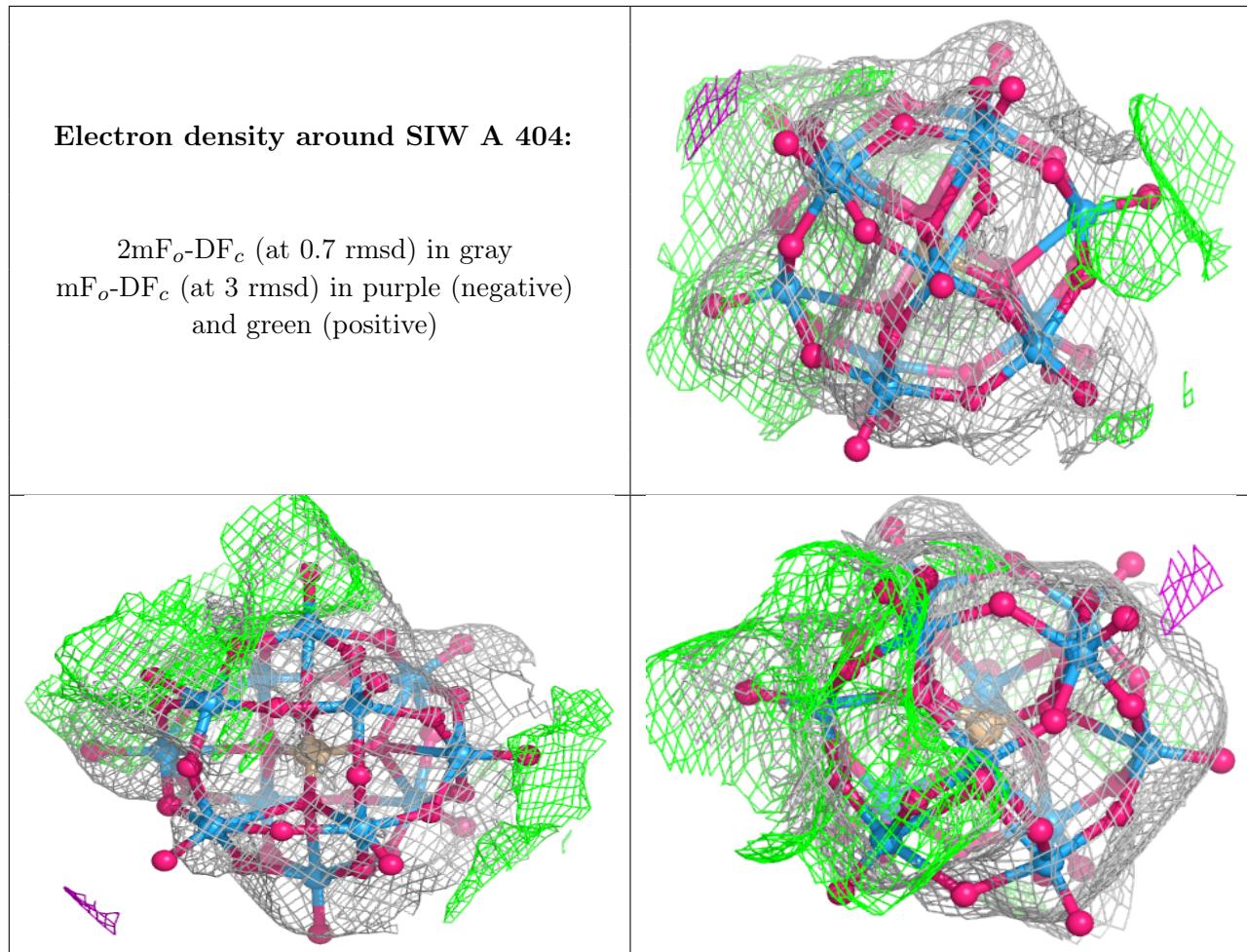
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	SIW	C	404	53/53	0.97	0.06	65,65,65,65	53
2	SIW	A	405	53/53	0.98	0.06	65,65,65,65	53
2	SIW	B	402	53/53	0.99	0.05	23,36,41,51	53
2	SIW	A	401[A]	53/53	1.00	0.03	31,46,52,55	53
2	SIW	B	401[A]	53/53	1.00	0.03	34,45,53,62	53
2	SIW	B	401[B]	53/53	1.00	0.03	27,44,55,67	53
2	SIW	A	401[B]	53/53	1.00	0.03	28,46,52,60	53
2	SIW	A	402[A]	53/53	1.00	0.03	27,36,38,40	53
2	SIW	C	401[A]	53/53	1.00	0.03	35,47,55,61	53
2	SIW	C	401[B]	53/53	1.00	0.03	34,47,53,60	53
2	SIW	C	402[A]	53/53	1.00	0.03	35,40,43,46	53
2	SIW	C	402[B]	53/53	1.00	0.03	31,40,43,44	53
2	SIW	C	403[A]	53/53	1.00	0.02	56,56,56,56	53
2	SIW	C	403[B]	53/53	1.00	0.02	56,56,56,56	53
2	SIW	A	402[B]	53/53	1.00	0.03	27,36,38,39	53

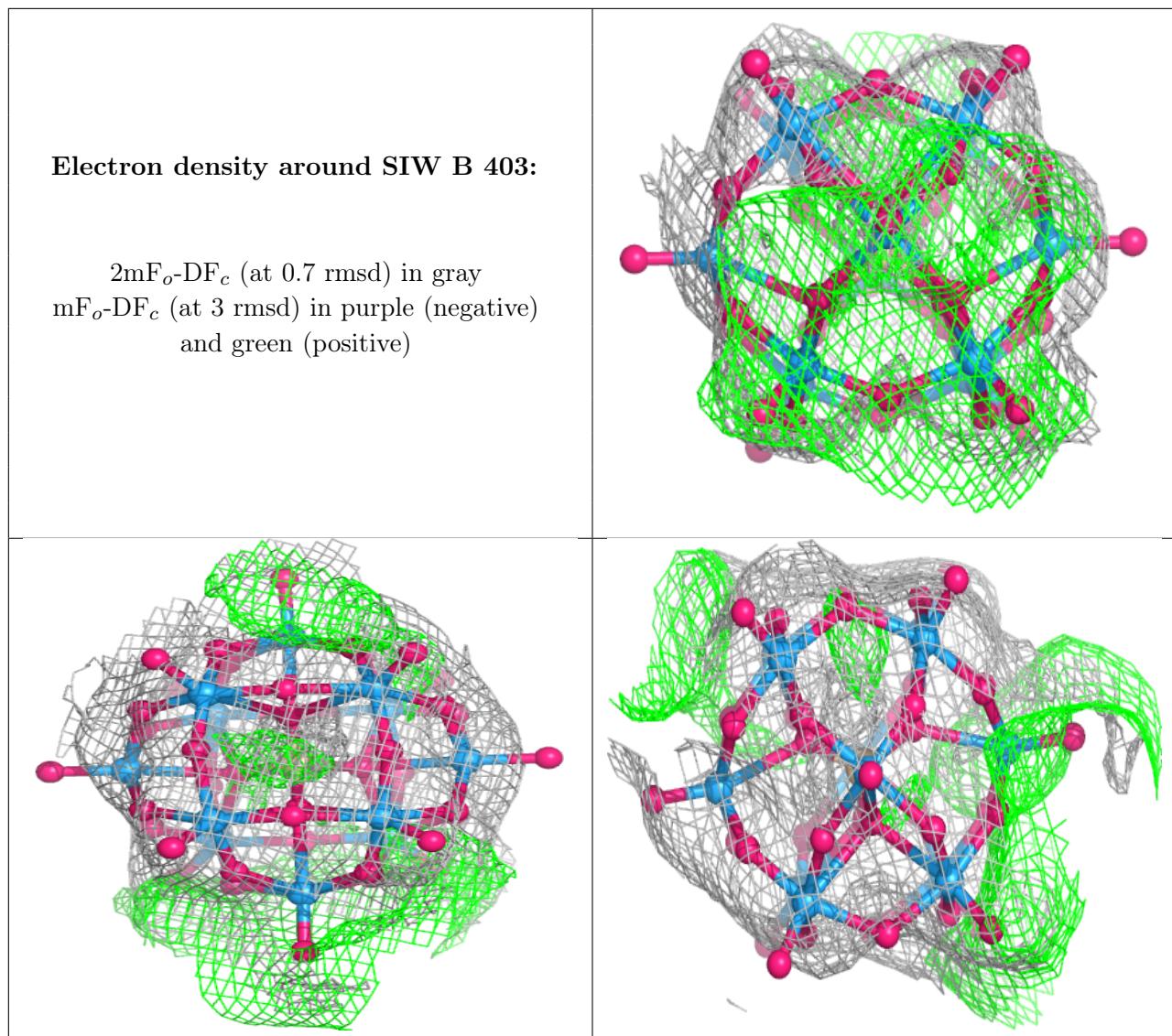
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

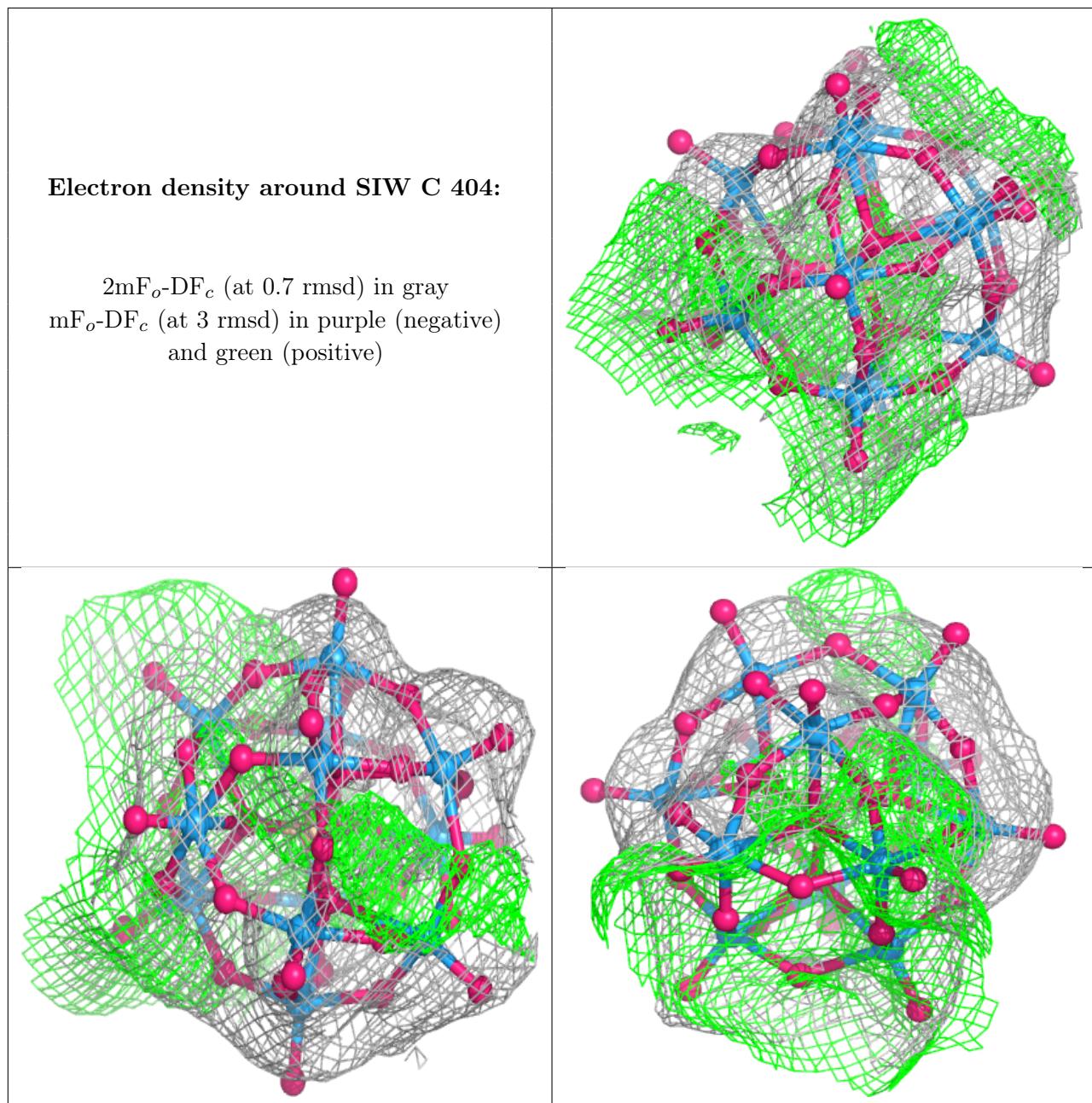


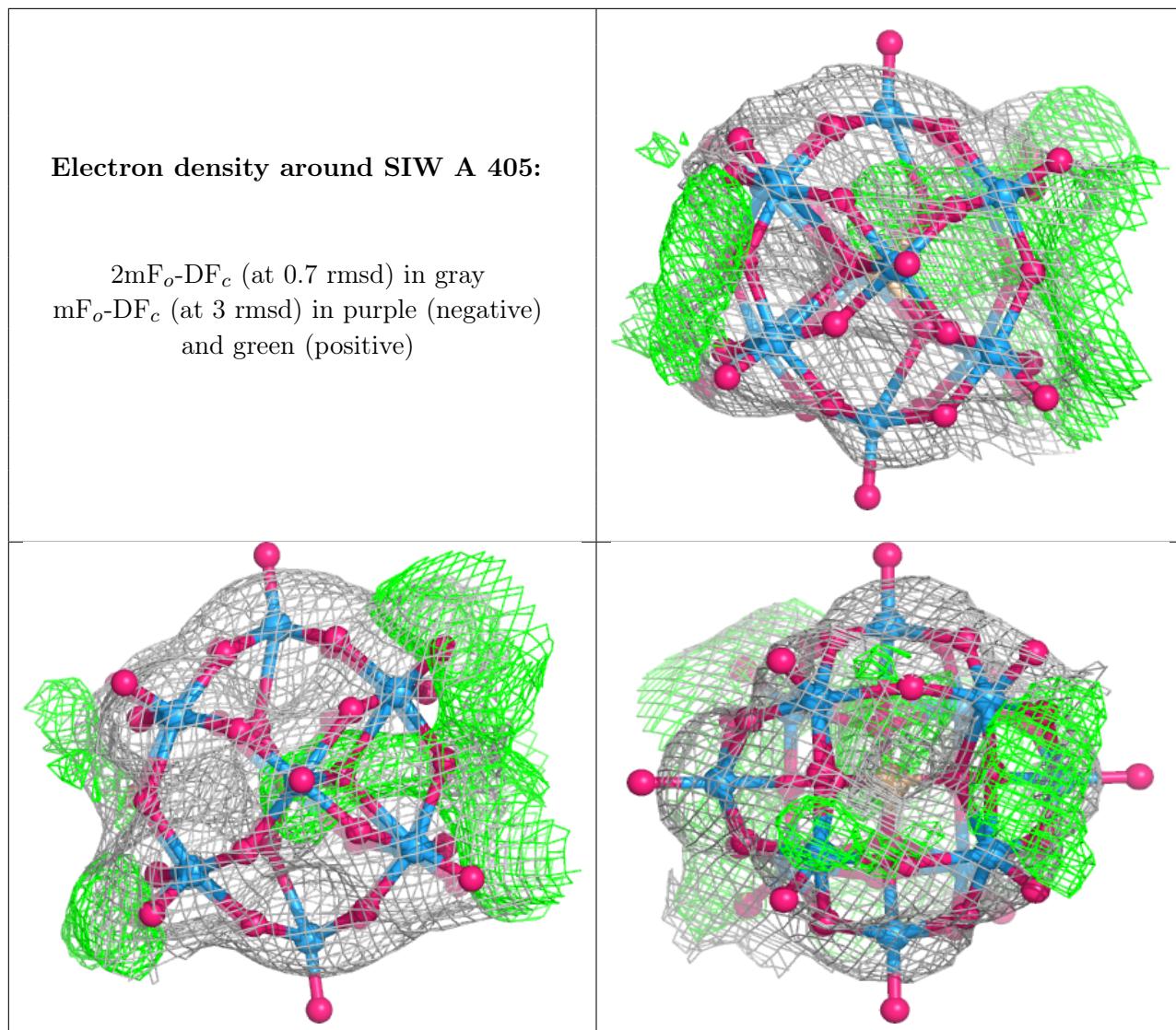


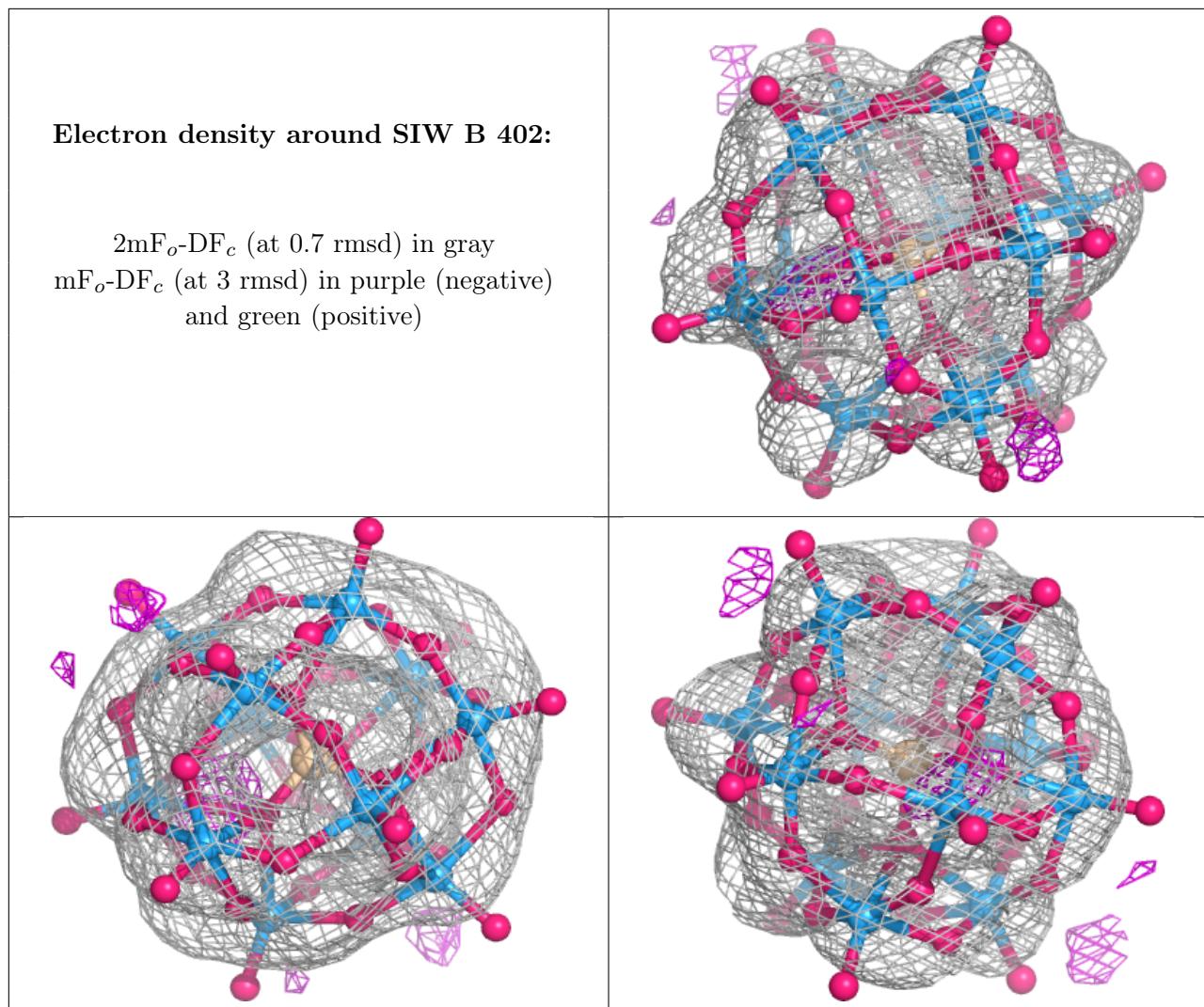


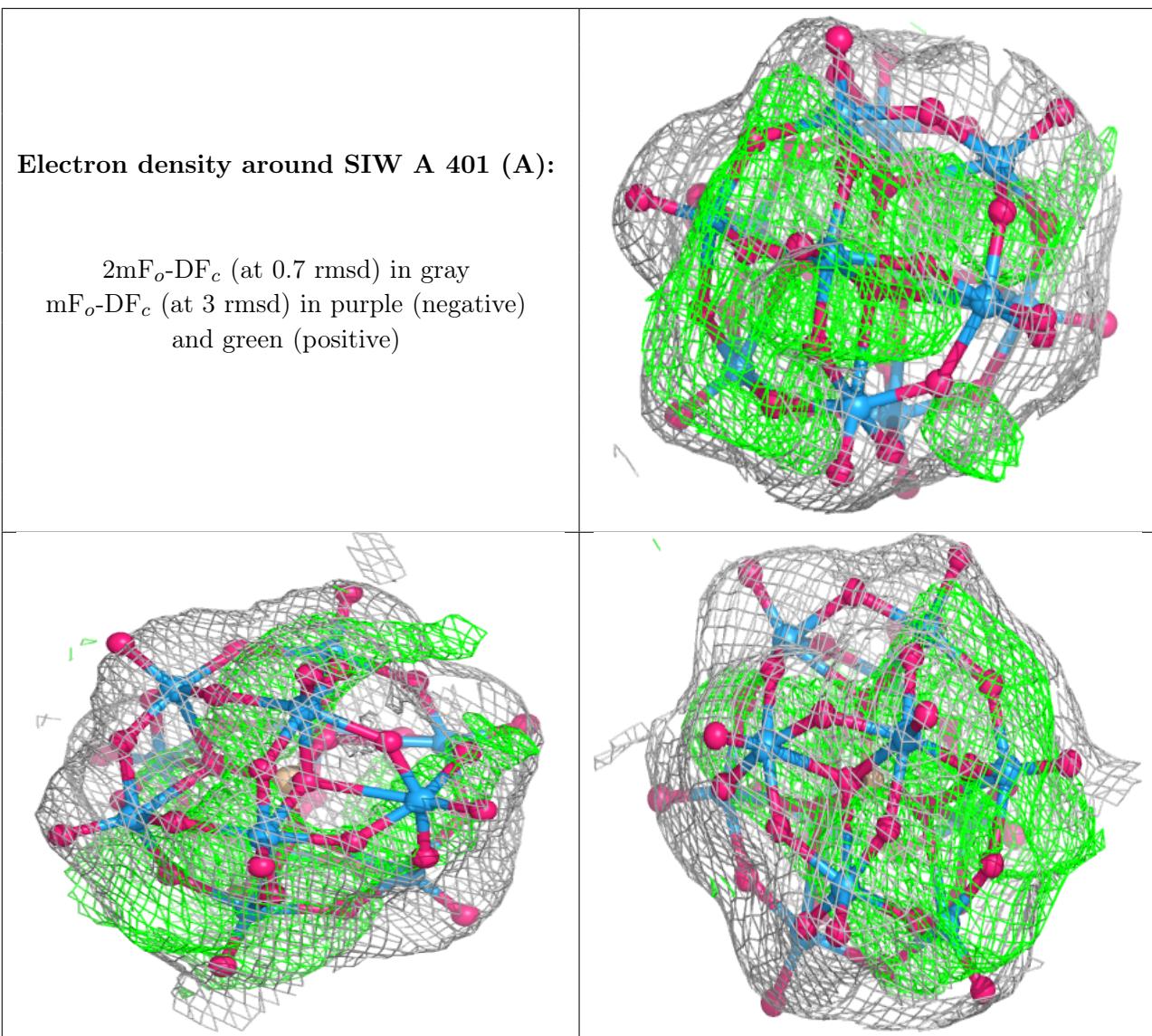






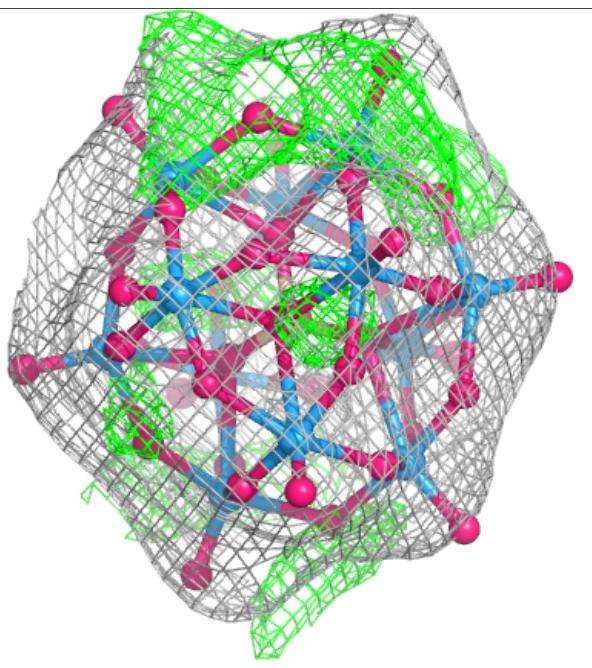
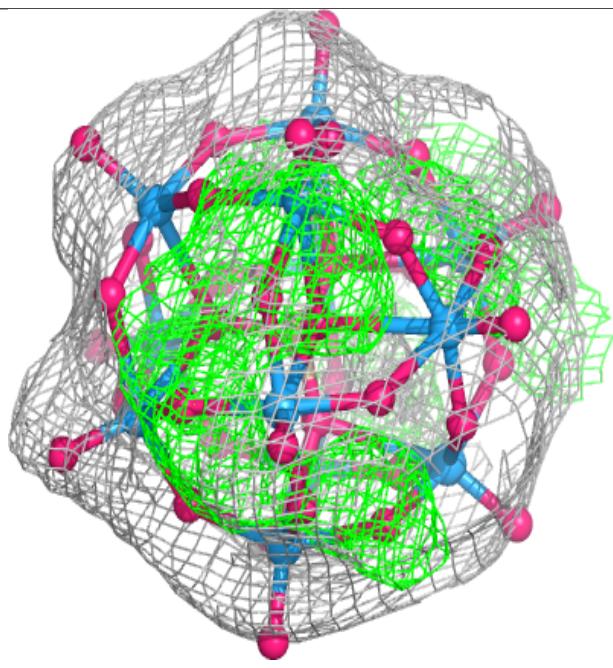
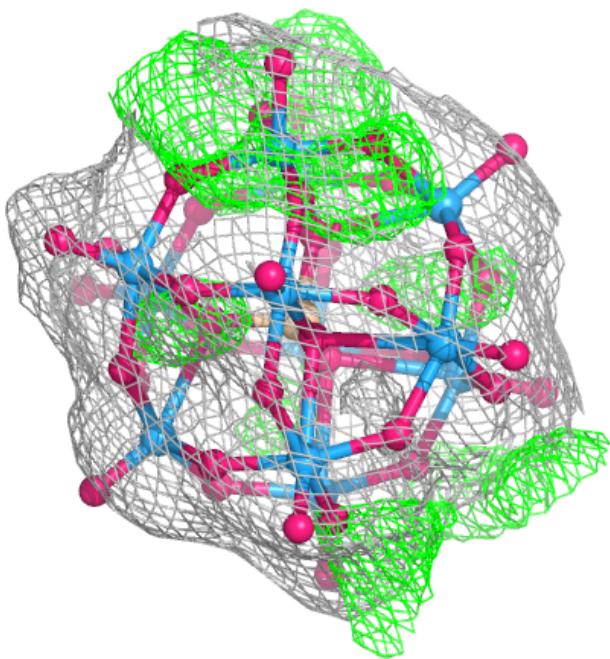


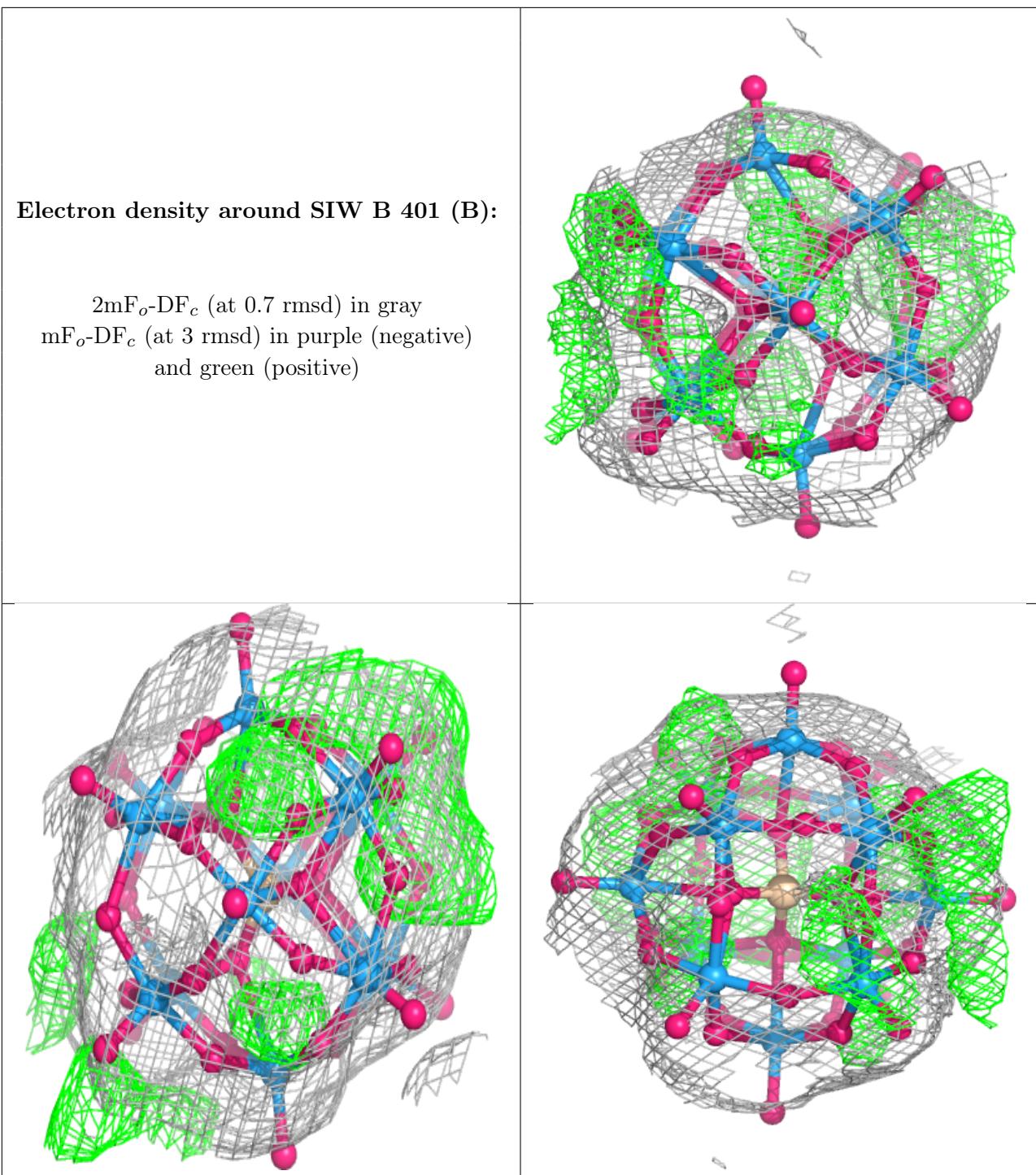


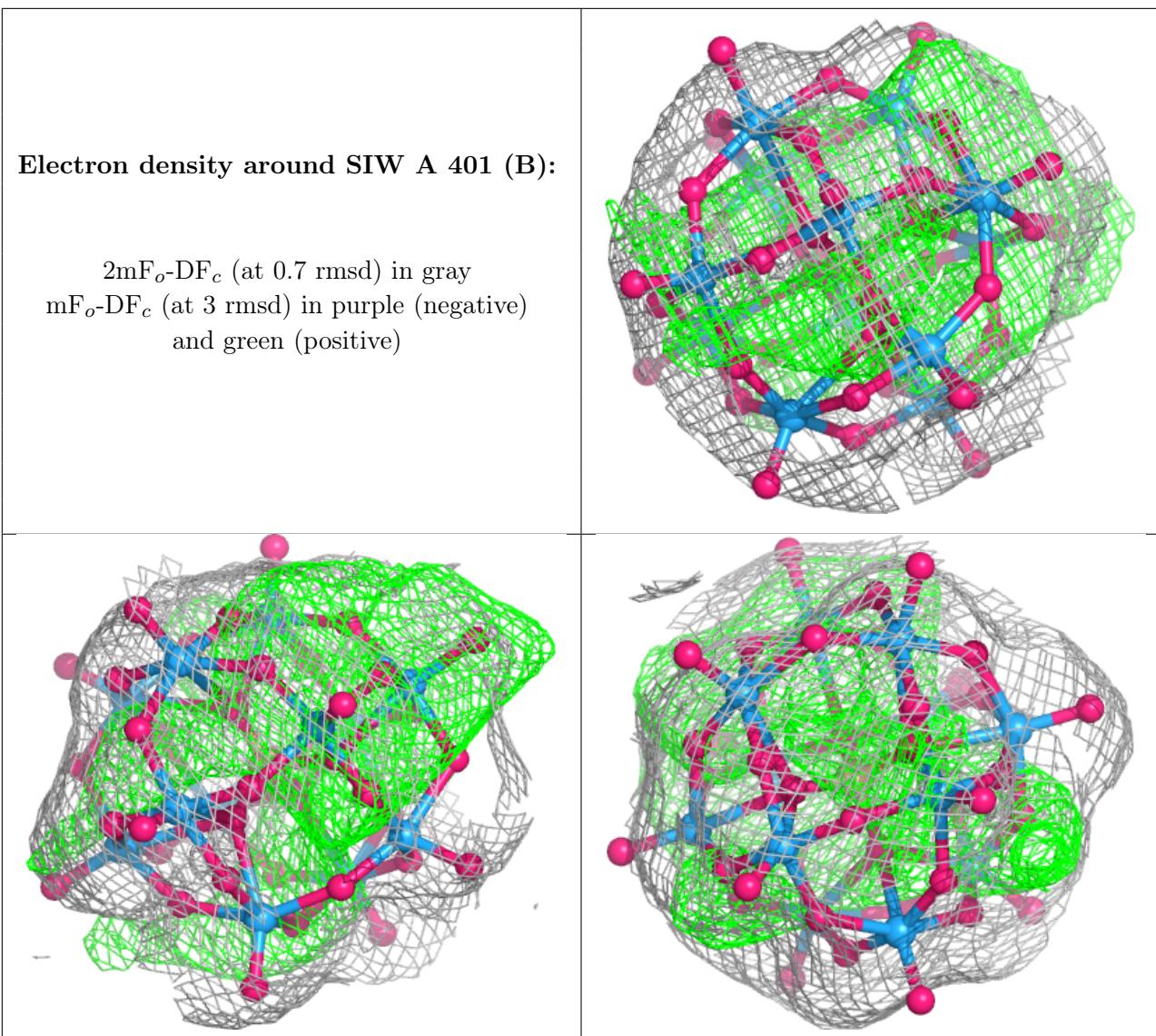


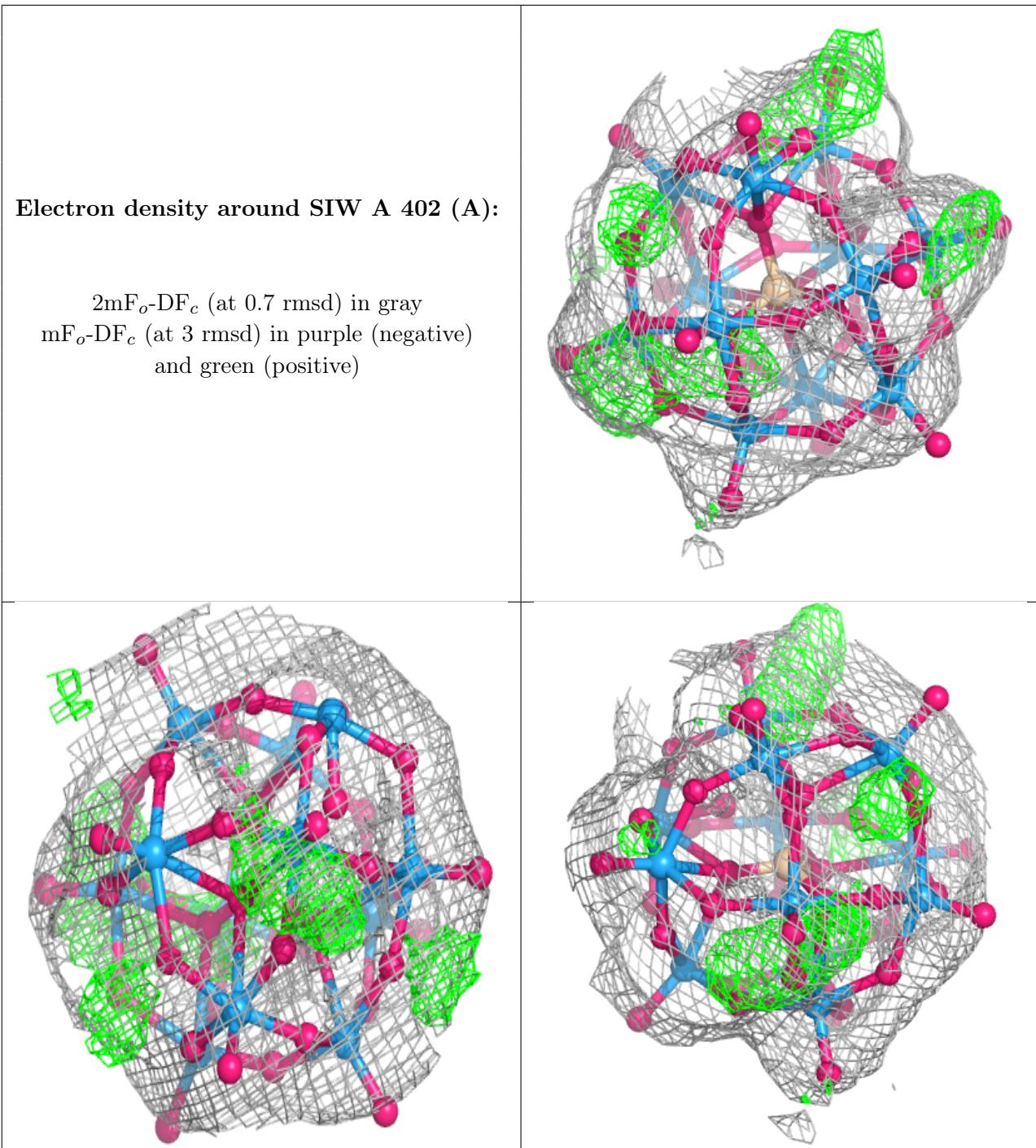
Electron density around SIW B 401 (A):

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



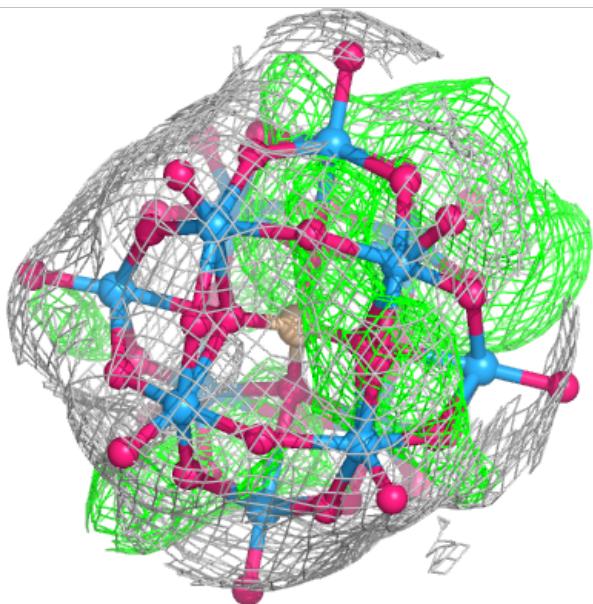
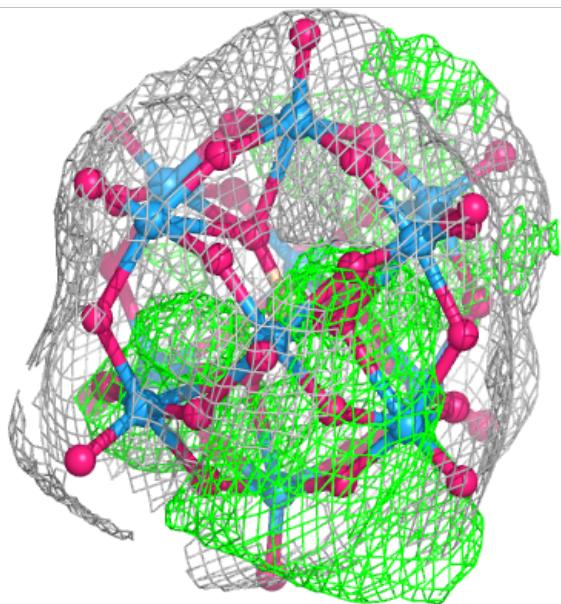
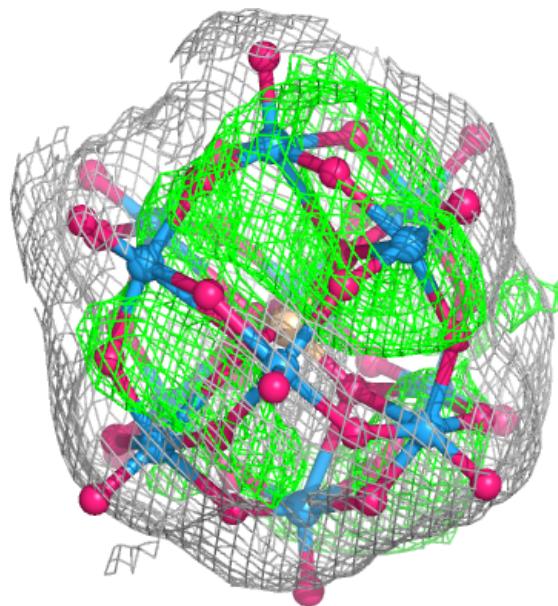






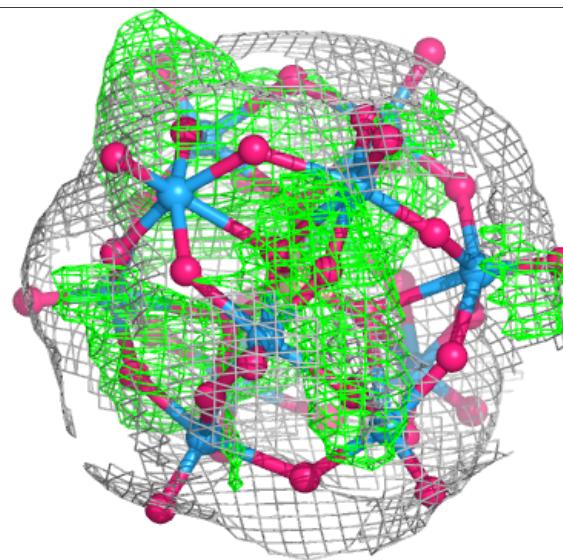
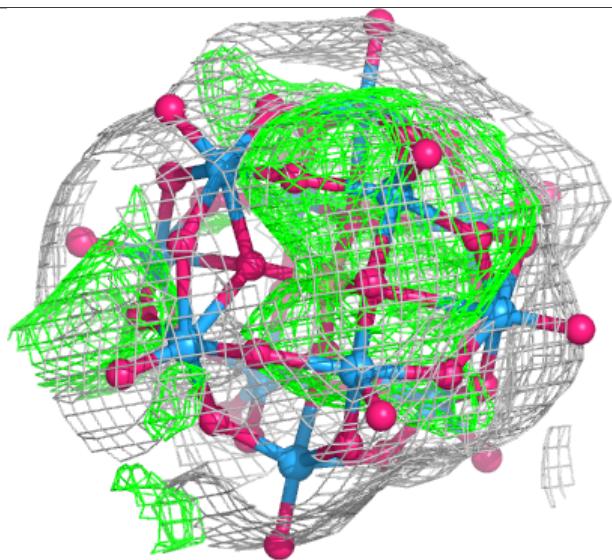
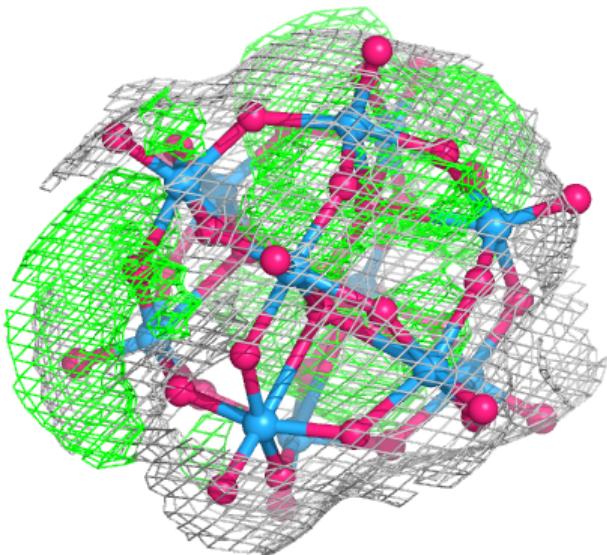
Electron density around SIW C 401 (A):

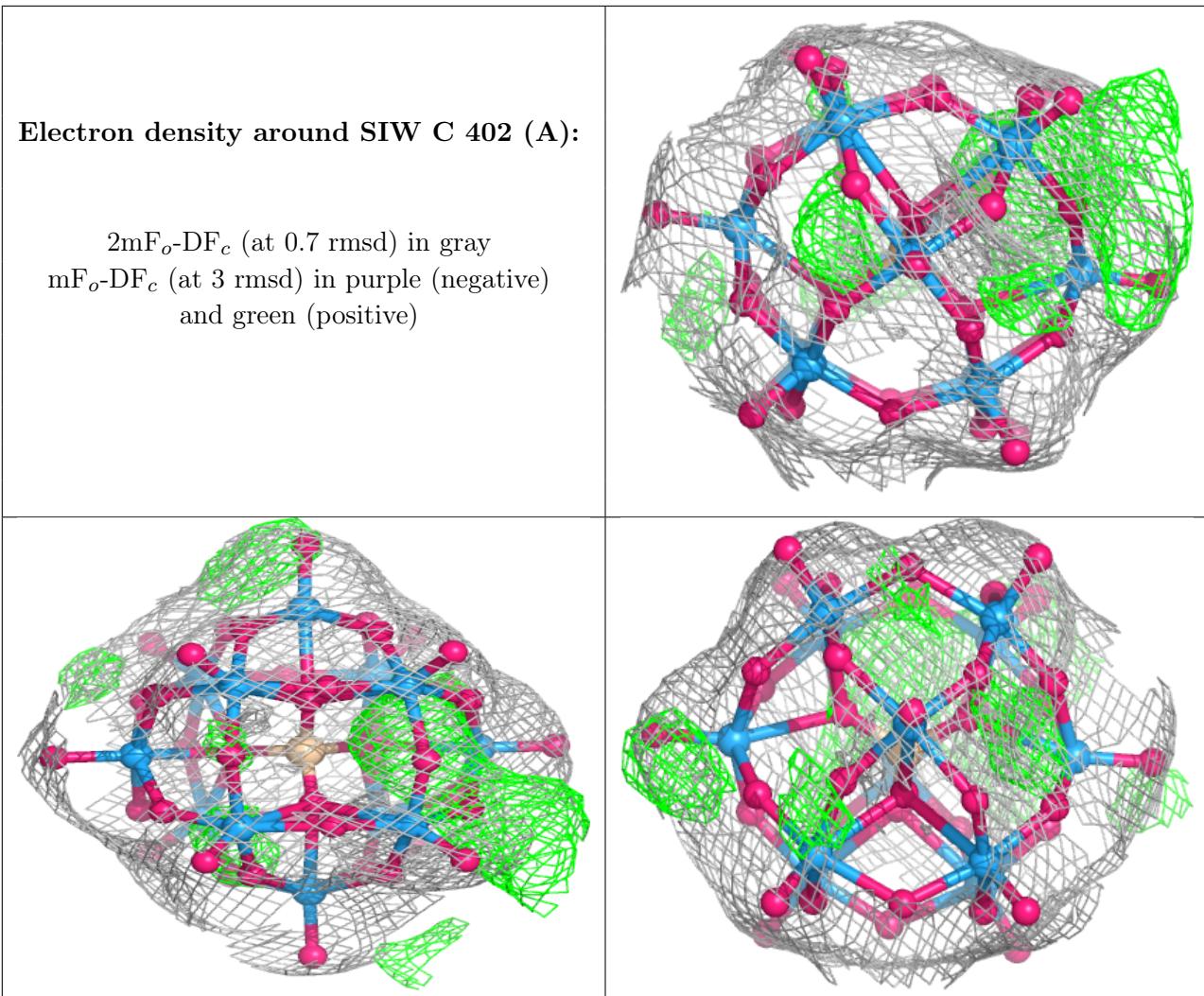
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

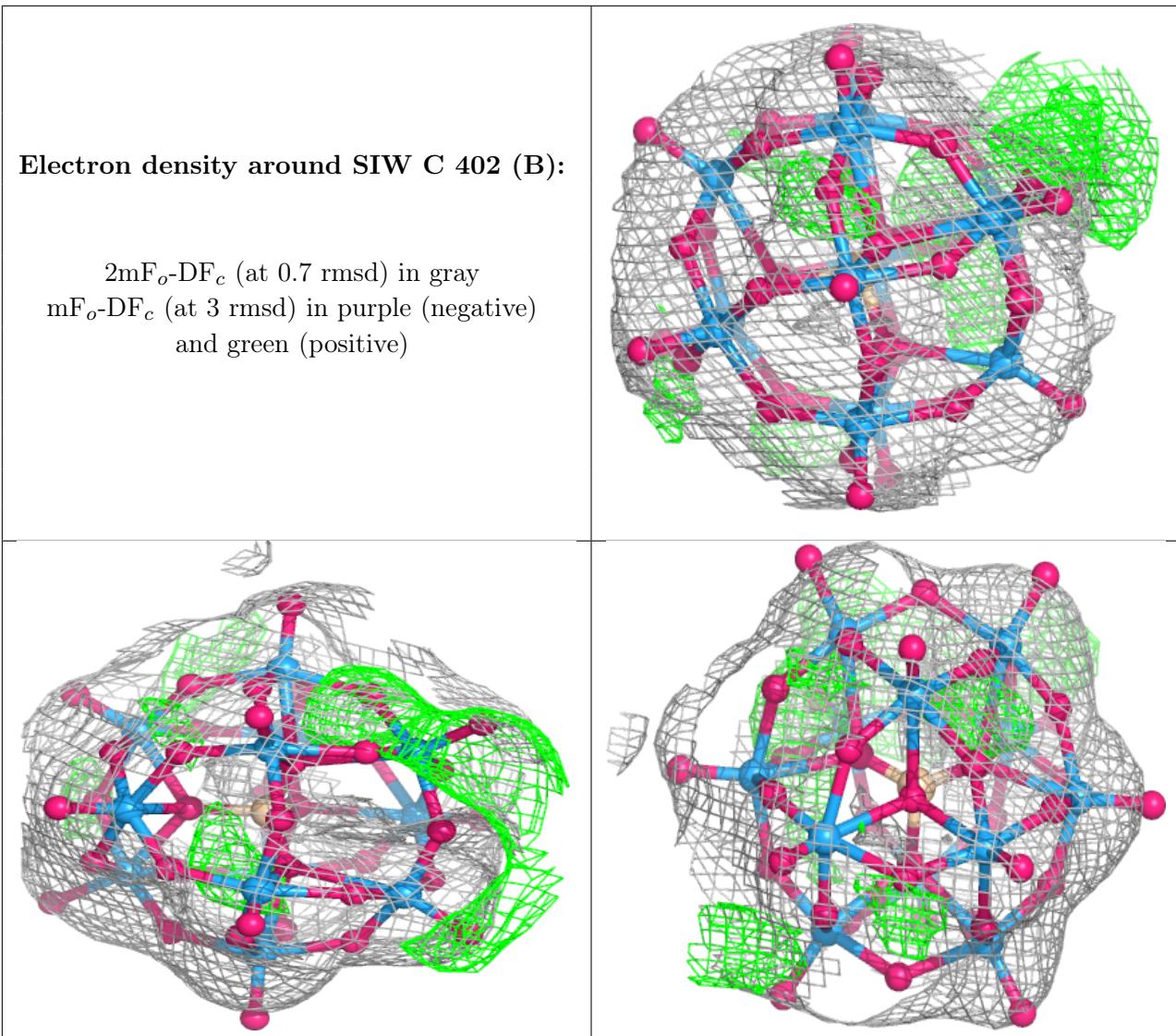


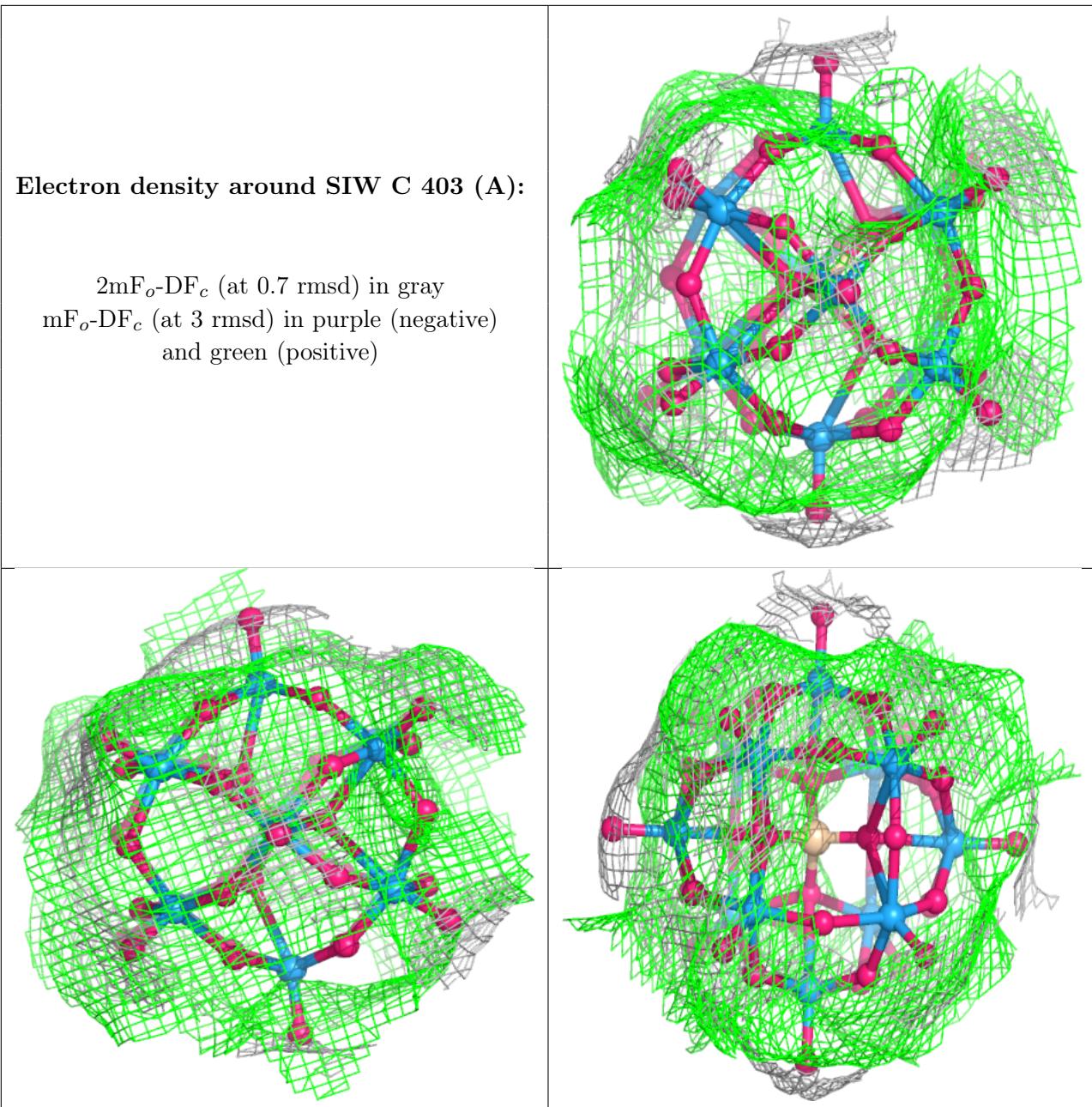
Electron density around SIW C 401 (B):

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



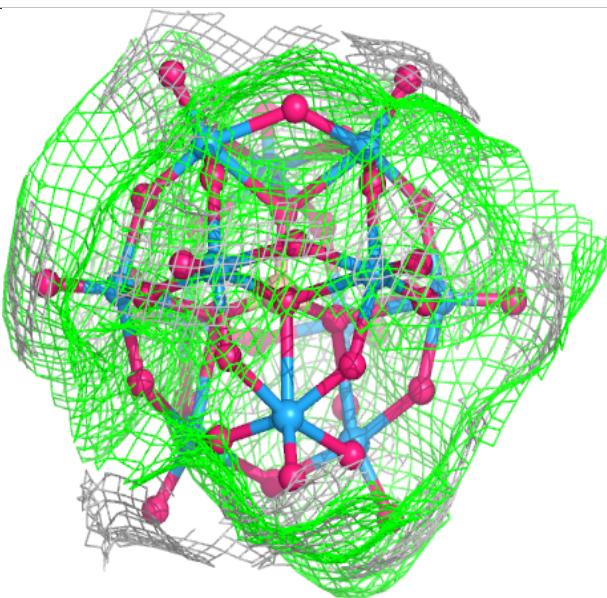
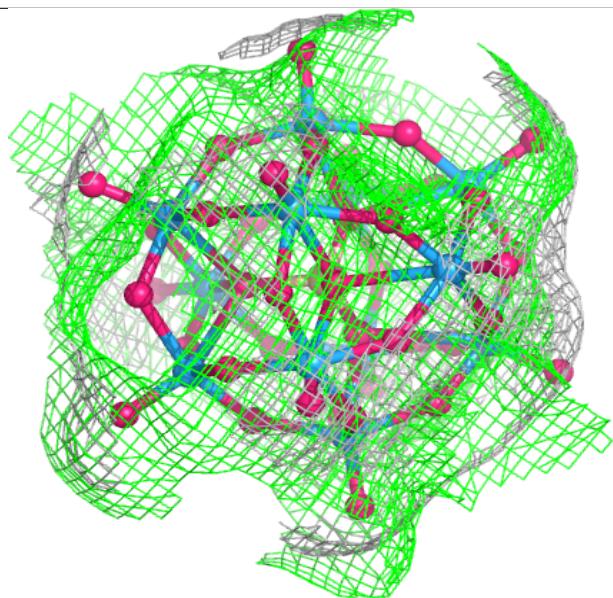
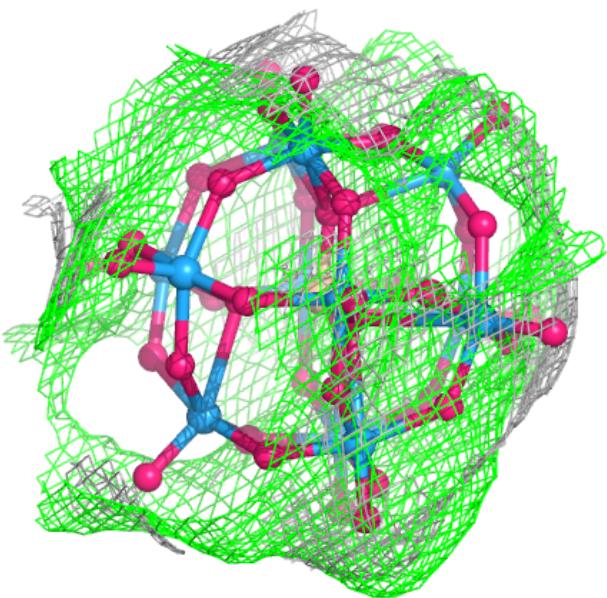


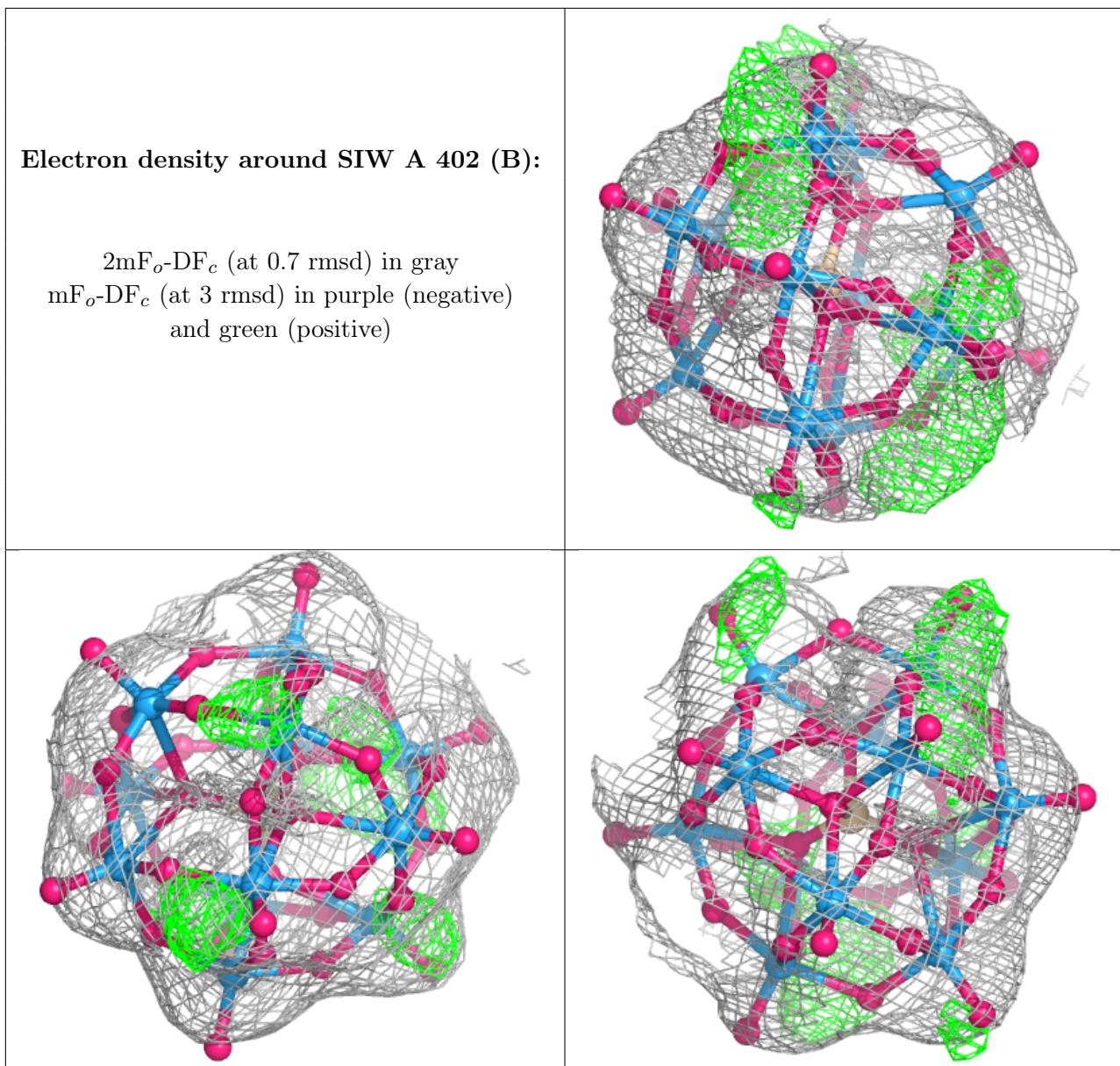




Electron density around SIW C 403 (B):

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





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

There are no such residues in this entry.