



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 5, 2026 – 09:15 AM UTC

PDB ID : 6HXX / pdb_00006hxx
Title : Structure of the human ATP citrate lyase holoenzyme in complex with citrate, coenzyme A and Mg.ADP
Authors : Verstraete, K.; Verschueren, K.
Deposited on : 2018-10-17
Resolution : 3.30 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 ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0
EDS : 3.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
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) : 2.49

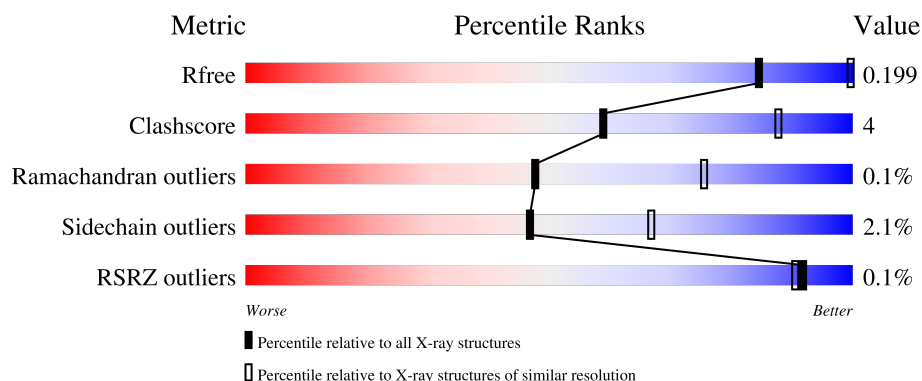
1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.30 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}	180053	1169 (3.32-3.28)
Clashscore	190562	1209 (3.32-3.28)
Ramachandran outliers	187476	1188 (3.32-3.28)
Sidechain outliers	187428	1187 (3.32-3.28)
RSRZ outliers	180081	1169 (3.32-3.28)

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

Mol	Chain	Length	Quality of chain
1	A	1050	90% 7% ..
1	B	1050	85% 12% ..
1	C	1050	85% 13% ..
1	D	1050	84% 13% ..
1	E	1050	85% 13% ..

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Mol	Chain	Length	Quality of chain
1	F	1050	 84%13% ..
1	G	1050	 86%12% ..
1	H	1050	 84%13% ..

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 64968 atoms, of which 160 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 ATP-citrate synthase,Human ATP citrate lyase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	1033	Total	C	N	O	S	0	0	0
			8004	5123	1356	1479	46			
1	B	1033	Total	C	N	O	S	0	0	0
			8004	5123	1356	1479	46			
1	C	1033	Total	C	N	O	S	0	0	0
			8004	5123	1356	1479	46			
1	D	1033	Total	C	N	O	S	0	0	0
			8004	5123	1356	1479	46			
1	E	1033	Total	C	N	O	S	0	0	0
			8004	5123	1356	1479	46			
1	F	1033	Total	C	N	O	S	0	0	0
			8004	5123	1356	1479	46			
1	G	1033	Total	C	N	O	S	0	0	0
			8004	5123	1356	1479	46			
1	H	1033	Total	C	N	O	S	0	0	0
			8004	5123	1356	1479	46			

There are 24 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	485	PRO	-	linker	UNP P53396
A	486	MET	-	linker	UNP P53396
A	487	GLY	-	linker	UNP P53396
B	485	PRO	-	linker	UNP P53396
B	486	MET	-	linker	UNP P53396
B	487	GLY	-	linker	UNP P53396
C	485	PRO	-	linker	UNP P53396
C	486	MET	-	linker	UNP P53396
C	487	GLY	-	linker	UNP P53396
D	485	PRO	-	linker	UNP P53396
D	486	MET	-	linker	UNP P53396
D	487	GLY	-	linker	UNP P53396
E	485	PRO	-	linker	UNP P53396

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Chain	Residue	Modelled	Actual	Comment	Reference
E	486	MET	-	linker	UNP P53396
E	487	GLY	-	linker	UNP P53396
F	485	PRO	-	linker	UNP P53396
F	486	MET	-	linker	UNP P53396
F	487	GLY	-	linker	UNP P53396
G	485	PRO	-	linker	UNP P53396
G	486	MET	-	linker	UNP P53396
G	487	GLY	-	linker	UNP P53396
H	485	PRO	-	linker	UNP P53396
H	486	MET	-	linker	UNP P53396
H	487	GLY	-	linker	UNP P53396

- Molecule 2 is MAGNESIUM ION (CCD ID: MG) (formula: Mg) (labeled as "Ligand of Interest" by depositor).

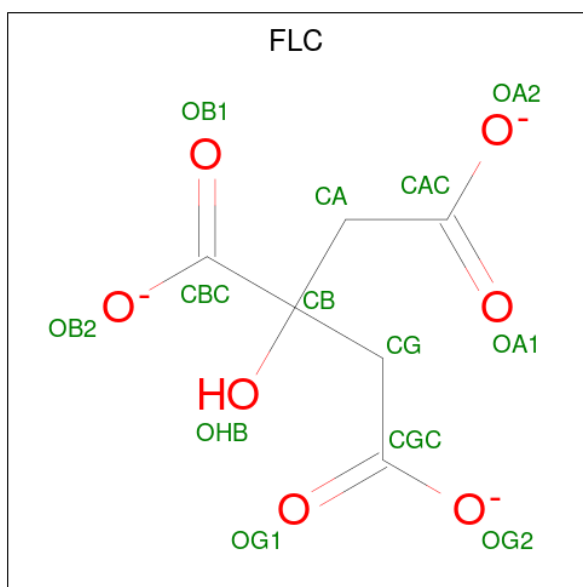
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	2	Total Mg 2 2	0	0
2	B	2	Total Mg 2 2	0	0
2	C	2	Total Mg 2 2	0	0
2	D	2	Total Mg 2 2	0	0
2	E	2	Total Mg 2 2	0	0
2	F	2	Total Mg 2 2	0	0
2	G	2	Total Mg 2 2	0	0
2	H	2	Total Mg 2 2	0	0

- Molecule 3 is PHOSPHATE ION (CCD ID: PO4) (formula: O₄P) (labeled as "Ligand of Interest" by depositor).



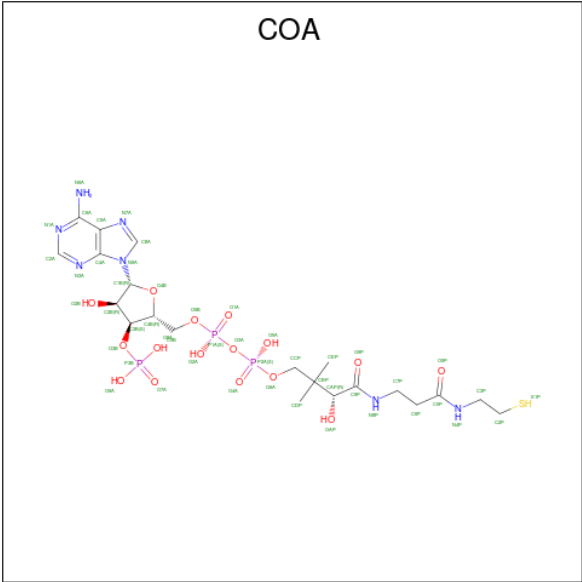
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	O	P	0	0
			5	4	1		
3	B	1	Total	O	P	0	0
			5	4	1		
3	C	1	Total	O	P	0	0
			5	4	1		
3	D	1	Total	O	P	0	0
			5	4	1		
3	E	1	Total	O	P	0	0
			5	4	1		
3	F	1	Total	O	P	0	0
			5	4	1		
3	G	1	Total	O	P	0	0
			5	4	1		
3	H	1	Total	O	P	0	0
			5	4	1		

- Molecule 4 is CITRATE ANION (CCD ID: FLC) (formula: $C_6H_5O_7$).



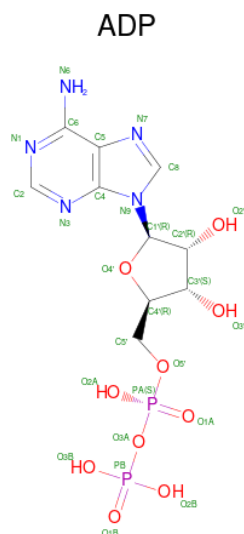
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	C	H	O	0	0
			18	6	5	7		
4	B	1	Total	C	H	O	0	0
			18	6	5	7		
4	C	1	Total	C	H	O	0	0
			18	6	5	7		
4	D	1	Total	C	H	O	0	0
			18	6	5	7		
4	E	1	Total	C	H	O	0	0
			18	6	5	7		
4	F	1	Total	C	H	O	0	0
			18	6	5	7		
4	G	1	Total	C	H	O	0	0
			18	6	5	7		
4	H	1	Total	C	H	O	0	0
			18	6	5	7		

- Molecule 5 is COENZYME A (CCD ID: COA) (formula: $C_{21}H_{36}N_7O_{16}P_3S$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
5	A	1	Total	C	N	O	P	S	0	0
			48	21	7	16	3	1		
5	A	1	Total	C	N	O	P	S	0	0
			48	21	7	16	3	1		
5	C	1	Total	C	N	O	P	S	0	0
			48	21	7	16	3	1		
5	D	1	Total	C	N	O	P	S	0	0
			48	21	7	16	3	1		
5	E	1	Total	C	N	O	P	S	0	0
			48	21	7	16	3	1		
5	F	1	Total	C	N	O	P	S	0	0
			48	21	7	16	3	1		
5	G	1	Total	C	N	O	P	S	0	0
			48	21	7	16	3	1		
5	H	1	Total	C	N	O	P	S	0	0
			48	21	7	16	3	1		

- Molecule 6 is ADENOSINE-5'-DIPHOSPHATE (CCD ID: ADP) (formula: C₁₀H₁₅N₅O₁₀P₂) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
6	A	1	Total 42	C 10	H 15	N 5	O 10	P 2	0	0
6	B	1	Total 42	C 10	H 15	N 5	O 10	P 2	0	0
6	C	1	Total 42	C 10	H 15	N 5	O 10	P 2	0	0
6	D	1	Total 42	C 10	H 15	N 5	O 10	P 2	0	0
6	E	1	Total 42	C 10	H 15	N 5	O 10	P 2	0	0
6	F	1	Total 42	C 10	H 15	N 5	O 10	P 2	0	0
6	G	1	Total 42	C 10	H 15	N 5	O 10	P 2	0	0
6	H	1	Total 42	C 10	H 15	N 5	O 10	P 2	0	0

- Molecule 7 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	2	Total O 2 2	0	0
7	B	2	Total O 2 2	0	0
7	C	2	Total O 2 2	0	0
7	D	2	Total O 2 2	0	0

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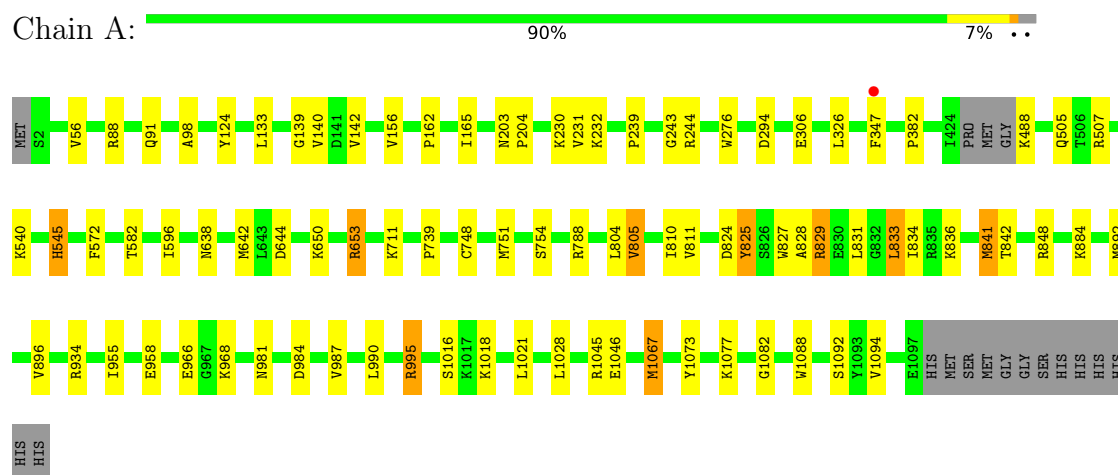
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	E	2	Total 2	O 2	0	0
7	F	2	Total 2	O 2	0	0
7	G	2	Total 2	O 2	0	0
7	H	2	Total 2	O 2	0	0

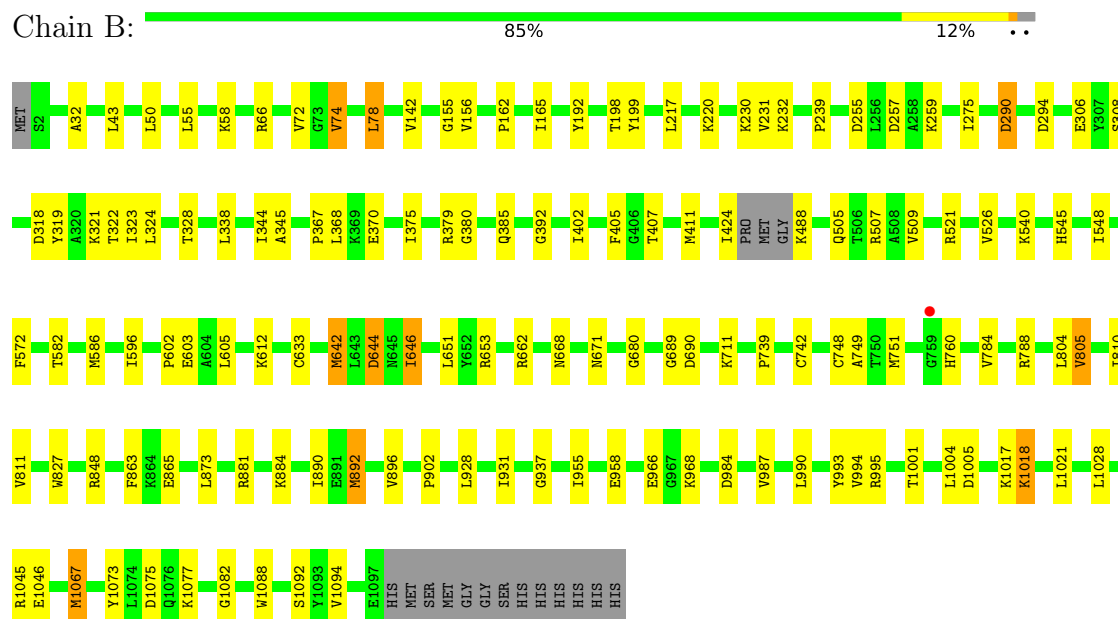
3 Residue-property plots

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.

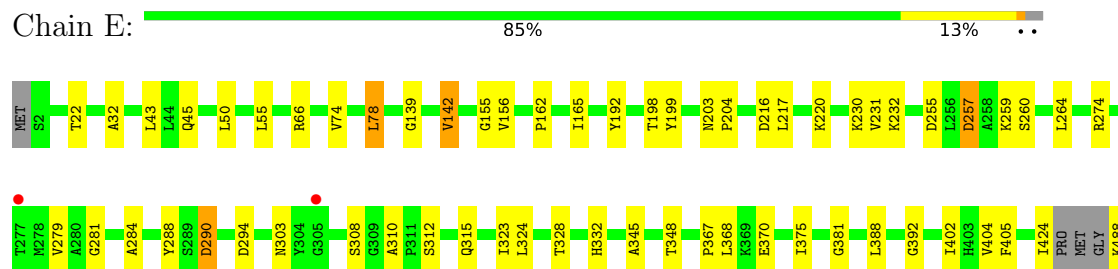
- Molecule 1: ATP-citrate synthase,Human ATP citrate lyase

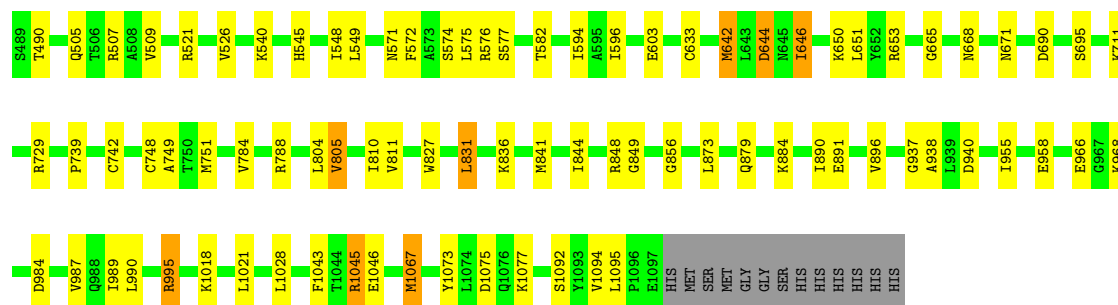


- Molecule 1: ATP-citrate synthase,Human ATP citrate lyase



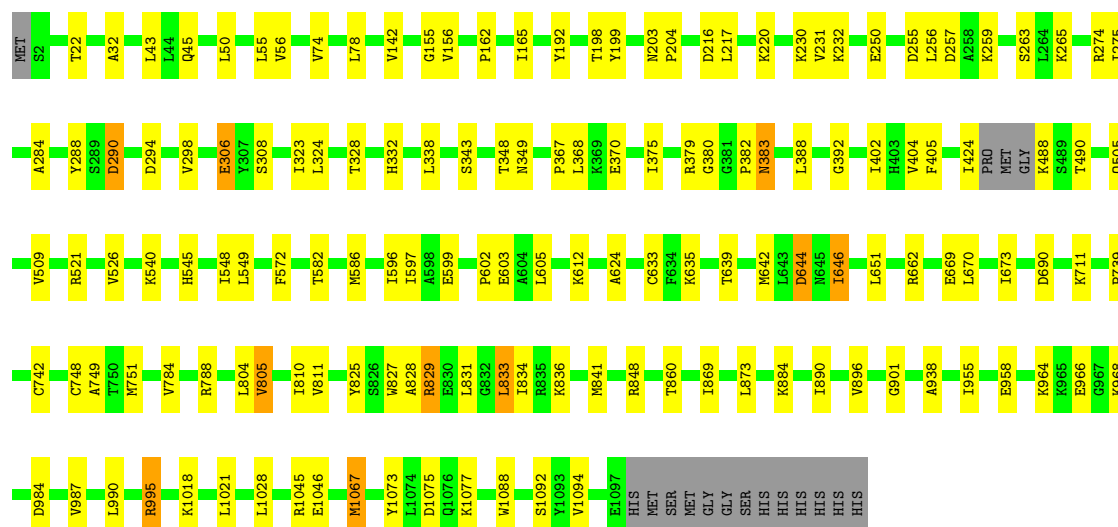
- Molecule 1: ATP-citrate synthase,Human ATP citrate lyase





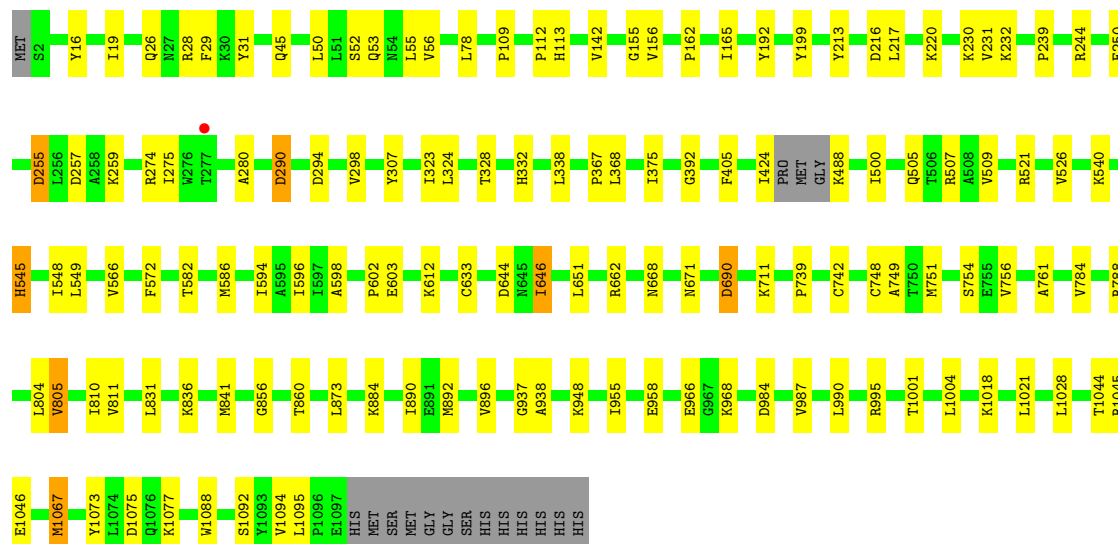
- Molecule 1: ATP-citrate synthase, Human ATP citrate lyase

Chain F: 84% 13% ..



- Molecule 1: ATP-citrate synthase, Human ATP citrate lyase

Chain G: 86% 12% ..



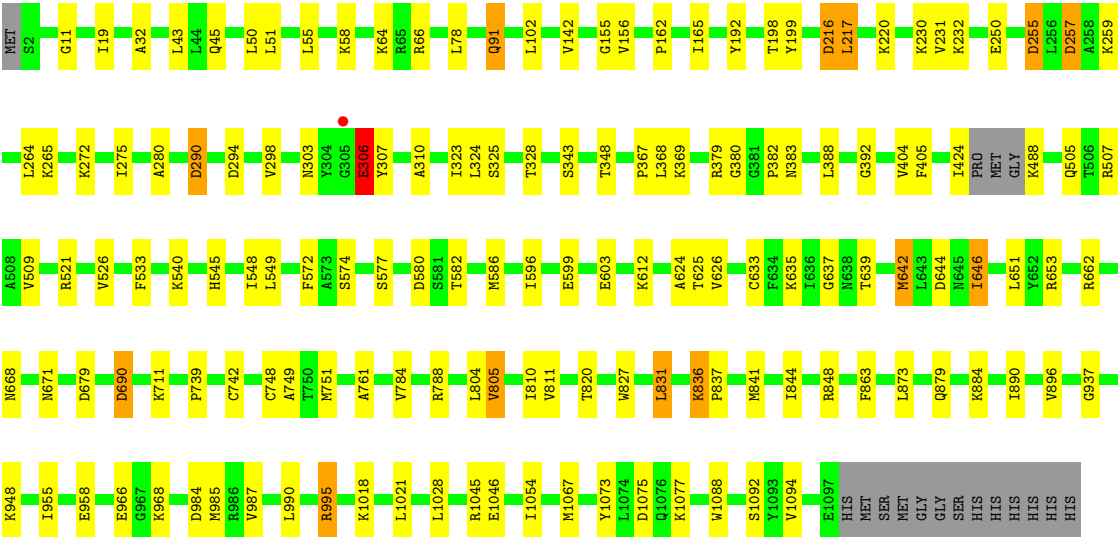
● Molecule 1: ATP-citrate synthase,Human ATP citrate lyase

Chain H:

84%

13%

..



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	150.36Å 154.01Å 154.09Å 91.53° 110.04° 107.46°	Depositor
Resolution (Å)	48.46 – 3.30 48.46 – 3.30	Depositor EDS
% Data completeness (in resolution range)	95.6 (48.46-3.30) 95.6 (48.46-3.30)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.34 (at 3.33Å)	Xtriage
Refinement program	BUSTER 2.10.2	Depositor
R, R_{free}	0.156 , 0.187 0.174 , 0.199	Depositor DCC
R_{free} test set	8684 reflections (4.69%)	wwPDB-VP
Wilson B-factor (Å ²)	112.5	Xtriage
Anisotropy	0.184	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 98.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	0.043 for -h,-l,-k	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	64968	wwPDB-VP
Average B, all atoms (Å ²)	127.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.53% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: FLC, COA, ADP, MG, PO4

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	0.76	2/8177 (0.0%)	1.12	15/11065 (0.1%)
1	B	0.90	5/8177 (0.1%)	1.39	30/11065 (0.3%)
1	C	0.86	3/8177 (0.0%)	1.39	40/11065 (0.4%)
1	D	0.92	7/8177 (0.1%)	1.42	44/11065 (0.4%)
1	E	0.89	3/8177 (0.0%)	1.40	35/11065 (0.3%)
1	F	0.86	2/8177 (0.0%)	1.38	32/11065 (0.3%)
1	G	0.85	2/8177 (0.0%)	1.38	38/11065 (0.3%)
1	H	0.85	4/8177 (0.0%)	1.39	46/11065 (0.4%)
All	All	0.87	28/65416 (0.0%)	1.36	280/88520 (0.3%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	C	0	1
1	D	0	1
1	E	0	1
1	F	0	1
All	All	0	5

The worst 5 of 28 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	1067	MET	SD-CE	12.95	2.12	1.79
1	B	1067	MET	SD-CE	12.45	2.10	1.79
1	B	892	MET	SD-CE	10.88	2.06	1.79
1	G	1067	MET	SD-CE	10.65	2.06	1.79
1	E	1067	MET	SD-CE	10.54	2.06	1.79

The worst 5 of 280 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	407	THR	CA-C-N	10.48	134.32	120.28
1	D	407	THR	C-N-CA	10.48	134.32	120.28
1	D	421	HIS	N-CA-C	9.03	123.59	113.21
1	D	290	ASP	CA-CB-CG	8.45	121.05	112.60
1	F	488	LYS	CA-C-N	8.40	132.66	120.82

There are no chirality outliers.

All (5) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	829	ARG	Sidechain
1	C	995	ARG	Sidechain
1	D	881	ARG	Sidechain
1	E	1045	ARG	Sidechain
1	F	829	ARG	Sidechain

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	8004	0	8058	59	0
1	B	8004	0	8058	71	0
1	C	8004	0	8054	78	0
1	D	8004	0	8055	99	0
1	E	8004	0	8056	81	0
1	F	8004	0	8057	84	0
1	G	8004	0	8058	78	0
1	H	8004	0	8058	78	0
2	A	2	0	0	0	0
2	B	2	0	0	0	0
2	C	2	0	0	0	0
2	D	2	0	0	0	0
2	E	2	0	0	0	0
2	F	2	0	0	0	0
2	G	2	0	0	0	0
2	H	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	A	5	0	0	0	0
3	B	5	0	0	0	0
3	C	5	0	0	0	0
3	D	5	0	0	0	0
3	E	5	0	0	0	0
3	F	5	0	0	0	0
3	G	5	0	0	0	0
3	H	5	0	0	0	0
4	A	13	5	5	0	0
4	B	13	5	5	1	0
4	C	13	5	5	0	0
4	D	13	5	5	0	0
4	E	13	5	5	0	0
4	F	13	5	5	1	0
4	G	13	5	5	0	0
4	H	13	5	5	0	0
5	A	96	0	64	0	0
5	C	48	0	32	1	0
5	D	48	0	32	0	0
5	E	48	0	32	0	0
5	F	48	0	32	0	0
5	G	48	0	32	0	0
5	H	48	0	32	0	0
6	A	27	15	12	1	0
6	B	27	15	12	0	0
6	C	27	15	12	0	0
6	D	27	15	12	0	0
6	E	27	15	12	2	0
6	F	27	15	12	1	0
6	G	27	15	12	1	0
6	H	27	15	12	1	0
7	A	2	0	0	0	0
7	B	2	0	0	0	0
7	C	2	0	0	0	0
7	D	2	0	0	0	0
7	E	2	0	0	0	0
7	F	2	0	0	0	0
7	G	2	0	0	0	0
7	H	2	0	0	0	0
All	All	64808	160	64846	572	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 4.

The worst 5 of 572 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:1067:MET:SD	1:A:1067:MET:CE	2.05	1.45
1:D:892:MET:CE	1:D:892:MET:SD	2.04	1.45
1:F:1067:MET:SD	1:F:1067:MET:CE	2.04	1.44
1:C:1067:MET:SD	1:C:1067:MET:CE	2.05	1.43
1:E:1067:MET:SD	1:E:1067:MET:CE	2.05	1.43

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	1029/1050 (98%)	1013 (98%)	16 (2%)	0	100	100
1	B	1029/1050 (98%)	984 (96%)	44 (4%)	1 (0%)	48	75
1	C	1029/1050 (98%)	989 (96%)	39 (4%)	1 (0%)	48	75
1	D	1029/1050 (98%)	983 (96%)	45 (4%)	1 (0%)	48	75
1	E	1029/1050 (98%)	985 (96%)	43 (4%)	1 (0%)	48	75
1	F	1029/1050 (98%)	988 (96%)	40 (4%)	1 (0%)	48	75
1	G	1029/1050 (98%)	983 (96%)	45 (4%)	1 (0%)	48	75
1	H	1029/1050 (98%)	990 (96%)	38 (4%)	1 (0%)	48	75
All	All	8232/8400 (98%)	7915 (96%)	310 (4%)	7 (0%)	48	75

5 of 7 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	155	GLY
1	C	155	GLY
1	E	155	GLY

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Mol	Chain	Res	Type
1	G	155	GLY
1	H	155	GLY

5.3.2 Protein sidechains ⓘ

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	854/868 (98%)	840 (98%)	14 (2%)	55	72
1	B	854/868 (98%)	835 (98%)	19 (2%)	45	66
1	C	854/868 (98%)	837 (98%)	17 (2%)	48	68
1	D	854/868 (98%)	839 (98%)	15 (2%)	51	70
1	E	854/868 (98%)	834 (98%)	20 (2%)	44	66
1	F	854/868 (98%)	833 (98%)	21 (2%)	42	64
1	G	854/868 (98%)	836 (98%)	18 (2%)	47	67
1	H	854/868 (98%)	833 (98%)	21 (2%)	42	64
All	All	6832/6944 (98%)	6687 (98%)	145 (2%)	47	67

5 of 145 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	G	548	ILE
1	H	884	LYS
1	G	811	VAL
1	H	255	ASP
1	C	884	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 64 such sidechains are listed below:

Mol	Chain	Res	Type
1	H	47	HIS
1	H	115	GLN
1	D	47	HIS

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Mol	Chain	Res	Type
1	C	900	HIS
1	H	150	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 48 ligands modelled in this entry, 16 are monoatomic - leaving 32 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
3	PO4	D	1202	2	4,4,4	0.65	0	6,6,6	1.01	0
4	FLC	D	1203	2	12,12,12	1.11	0	17,17,17	1.14	1 (5%)
4	FLC	C	1203	2	12,12,12	1.10	0	17,17,17	1.19	2 (11%)
6	ADP	D	1205	2	28,29,29	0.37	0	43,45,45	0.51	0
6	ADP	H	1205	2	28,29,29	0.35	0	43,45,45	0.63	2 (4%)
6	ADP	C	1205	2	28,29,29	0.32	0	43,45,45	0.48	0
3	PO4	G	1202	2	4,4,4	1.13	0	6,6,6	1.40	1 (16%)
6	ADP	E	1205	2	28,29,29	0.34	0	43,45,45	0.67	1 (2%)
4	FLC	A	1203	2	12,12,12	1.07	0	17,17,17	1.25	2 (11%)
3	PO4	E	1202	2	4,4,4	1.03	0	6,6,6	1.36	1 (16%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	PO4	A	1202	2	4,4,4	0.94	0	6,6,6	0.75	0
4	FLC	E	1203	2	12,12,12	1.10	0	17,17,17	1.31	2 (11%)
6	ADP	F	1205	2	28,29,29	0.27	0	43,45,45	0.44	0
6	ADP	B	1204	2	28,29,29	0.40	0	43,45,45	0.48	0
6	ADP	G	1205	2	28,29,29	0.36	0	43,45,45	0.54	1 (2%)
6	ADP	A	1205	2	28,29,29	0.29	0	43,45,45	0.49	0
5	COA	A	1204	-	47,50,50	0.54	1 (2%)	69,75,75	0.73	2 (2%)
3	PO4	H	1202	2	4,4,4	0.82	0	6,6,6	1.23	1 (16%)
5	COA	A	1207	-	47,50,50	0.52	0	69,75,75	0.78	3 (4%)
5	COA	G	1204	-	47,50,50	0.54	1 (2%)	69,75,75	0.74	3 (4%)
4	FLC	B	1203	2	12,12,12	1.12	0	17,17,17	1.25	3 (17%)
4	FLC	G	1203	2	12,12,12	1.12	0	17,17,17	1.27	2 (11%)
5	COA	F	1204	-	47,50,50	0.63	2 (4%)	69,75,75	0.87	4 (5%)
3	PO4	B	1202	2	4,4,4	0.82	0	6,6,6	1.37	1 (16%)
3	PO4	C	1202	2	4,4,4	1.02	0	6,6,6	0.99	0
5	COA	D	1204	-	47,50,50	0.40	0	69,75,75	0.80	2 (2%)
5	COA	H	1204	-	47,50,50	0.57	2 (4%)	69,75,75	0.73	2 (2%)
3	PO4	F	1202	2	4,4,4	1.06	0	6,6,6	1.56	1 (16%)
4	FLC	F	1203	2	12,12,12	1.13	0	17,17,17	1.08	0
5	COA	E	1204	-	47,50,50	0.57	0	69,75,75	0.89	4 (5%)
4	FLC	H	1203	2	12,12,12	1.13	0	17,17,17	1.12	0
5	COA	C	1204	-	47,50,50	0.43	0	69,75,75	0.76	2 (2%)

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
4	FLC	D	1203	2	-	0/16/16/16	-
4	FLC	C	1203	2	-	3/16/16/16	-
6	ADP	D	1205	2	-	2/16/32/32	0/3/3/3
6	ADP	H	1205	2	-	7/16/32/32	0/3/3/3
6	ADP	C	1205	2	-	2/16/32/32	0/3/3/3
6	ADP	E	1205	2	-	2/16/32/32	0/3/3/3
4	FLC	A	1203	2	-	2/16/16/16	-
4	FLC	E	1203	2	-	5/16/16/16	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	ADP	F	1205	2	-	1/16/32/32	0/3/3/3
6	ADP	B	1204	2	-	3/16/32/32	0/3/3/3
6	ADP	G	1205	2	-	2/16/32/32	0/3/3/3
6	ADP	A	1205	2	-	3/16/32/32	0/3/3/3
5	COA	A	1204	-	-	5/48/64/64	0/3/3/3
5	COA	A	1207	-	-	7/48/64/64	0/3/3/3
5	COA	G	1204	-	-	6/48/64/64	0/3/3/3
4	FLC	B	1203	2	-	2/16/16/16	-
4	FLC	G	1203	2	-	3/16/16/16	-
5	COA	F	1204	-	-	7/48/64/64	0/3/3/3
5	COA	H	1204	-	-	9/48/64/64	0/3/3/3
5	COA	D	1204	-	-	7/48/64/64	0/3/3/3
4	FLC	F	1203	2	-	2/16/16/16	-
5	COA	E	1204	-	-	8/48/64/64	0/3/3/3
4	FLC	H	1203	2	-	4/16/16/16	-
5	COA	C	1204	-	-	5/48/64/64	0/3/3/3

The worst 5 of 6 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	F	1204	COA	P3B-O7A	-2.53	1.42	1.50
5	H	1204	COA	P3B-O7A	-2.48	1.42	1.50
5	A	1204	COA	P3B-O3B	-2.23	1.55	1.59
5	F	1204	COA	P2A-O6A	2.06	1.67	1.59
5	H	1204	COA	P2A-O6A	2.04	1.67	1.59

The worst 5 of 43 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	D	1204	COA	CDP-CBP-CCP	3.88	114.63	108.22
5	E	1204	COA	CDP-CBP-CCP	3.79	114.48	108.22
5	A	1207	COA	CDP-CBP-CCP	3.47	113.96	108.22
5	F	1204	COA	CDP-CBP-CCP	3.29	113.66	108.22
3	F	1202	PO4	O3-P-O2	2.90	116.94	107.91

There are no chirality outliers.

5 of 97 torsion outliers are listed below:

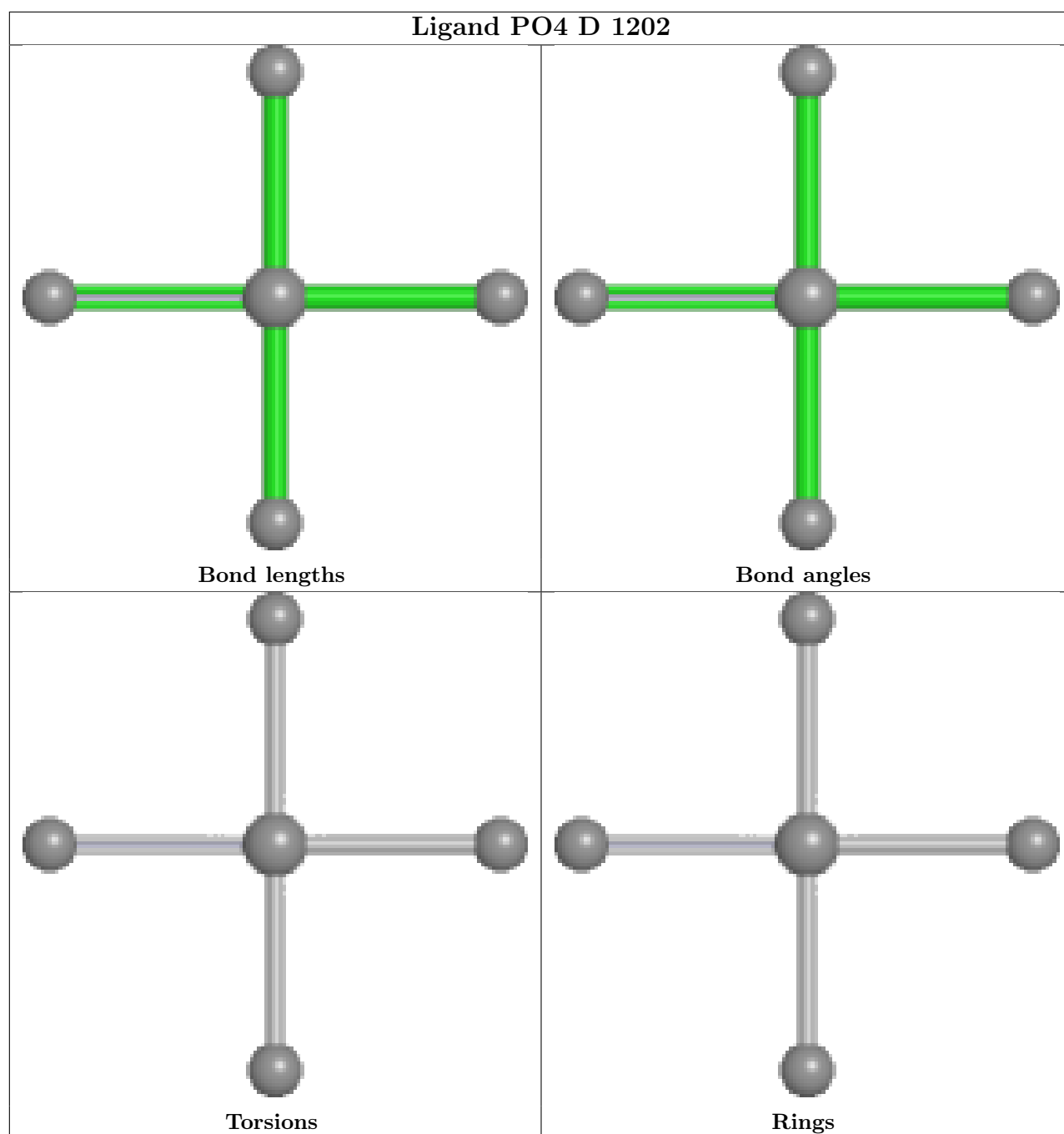
Mol	Chain	Res	Type	Atoms
4	G	1203	FLC	CA-CB-CG-CGC
4	G	1203	FLC	CBC-CB-CG-CGC
5	A	1204	COA	C5B-O5B-P1A-O3A
5	A	1204	COA	CCP-O6A-P2A-O3A
5	A	1204	COA	CCP-O6A-P2A-O4A

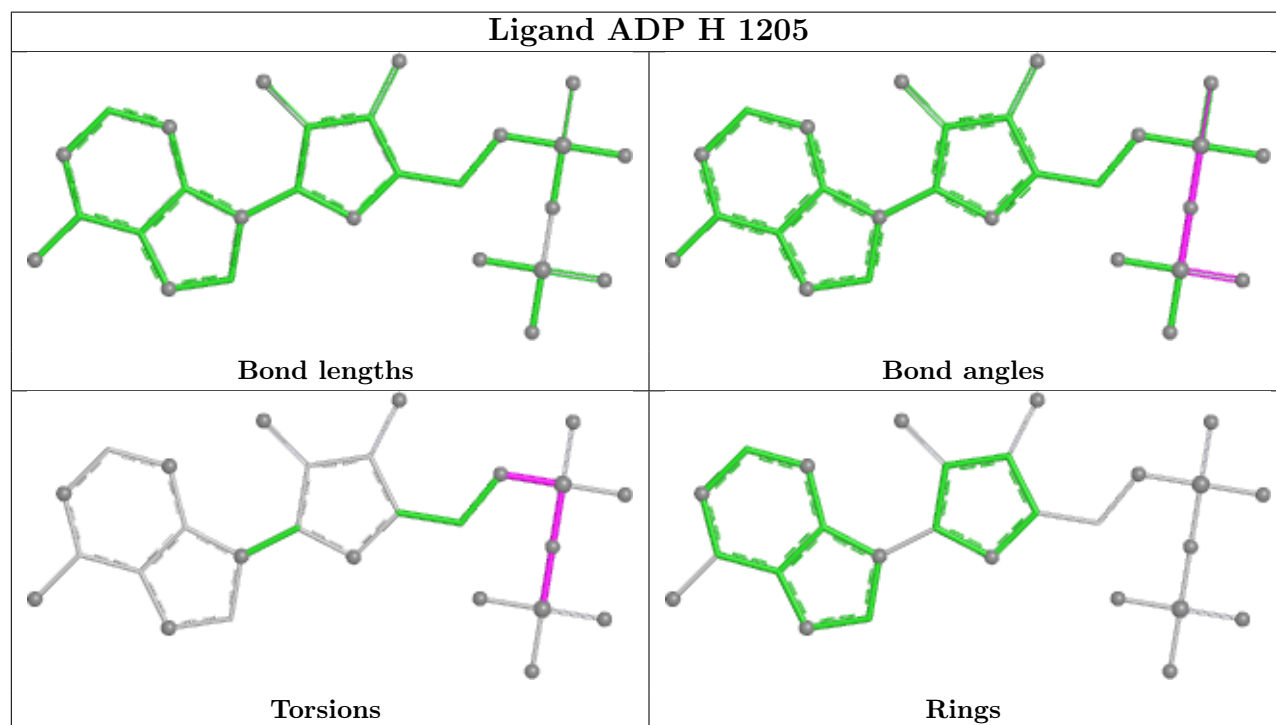
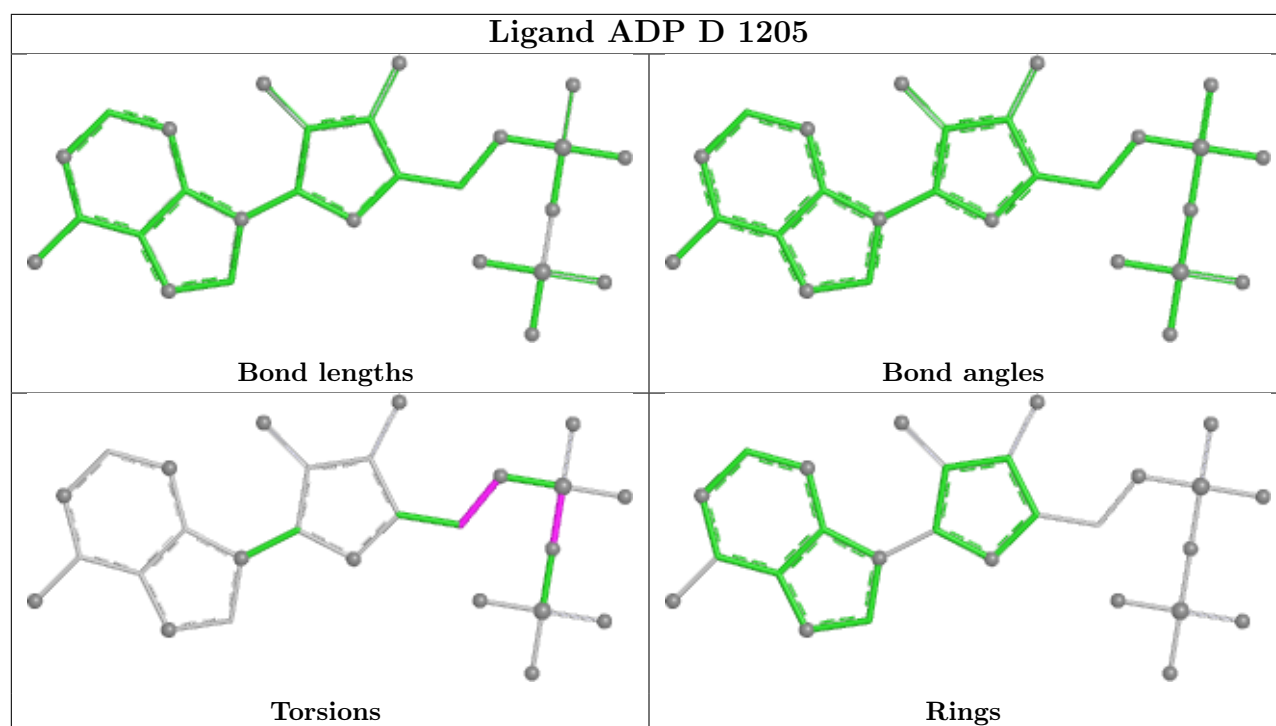
There are no ring outliers.

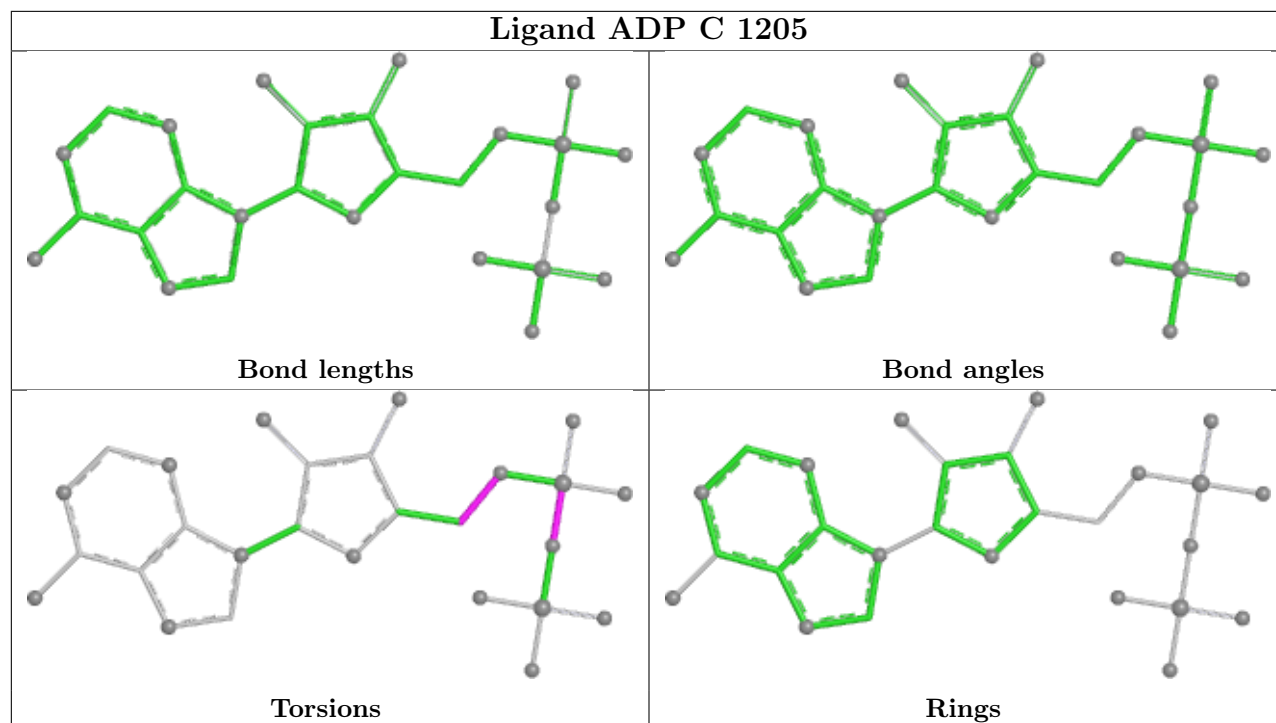
8 monomers are involved in 9 short contacts:

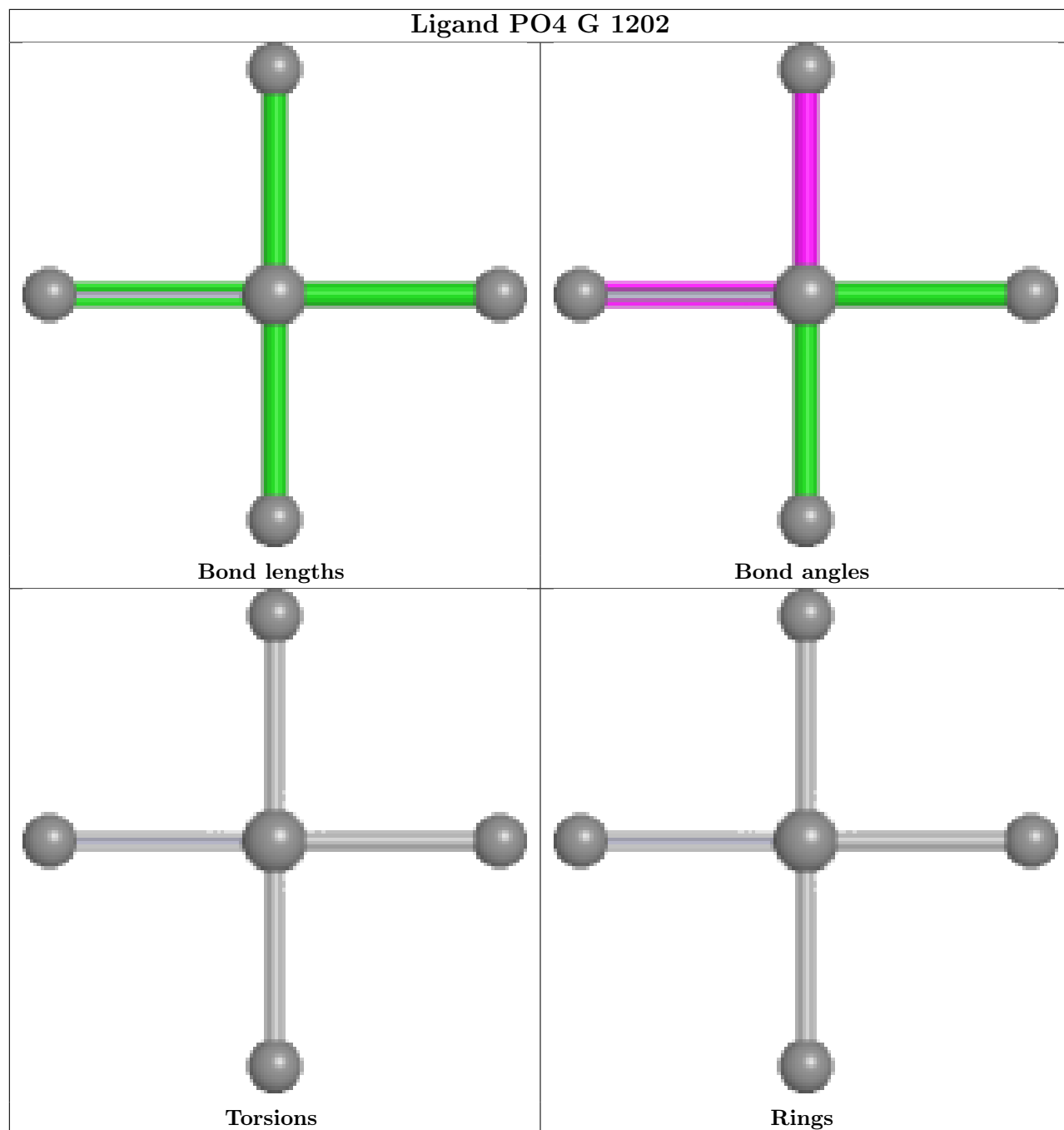
Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	H	1205	ADP	1	0
6	E	1205	ADP	2	0
6	F	1205	ADP	1	0
6	G	1205	ADP	1	0
6	A	1205	ADP	1	0
4	B	1203	FLC	1	0
4	F	1203	FLC	1	0
5	C	1204	COA	1	0

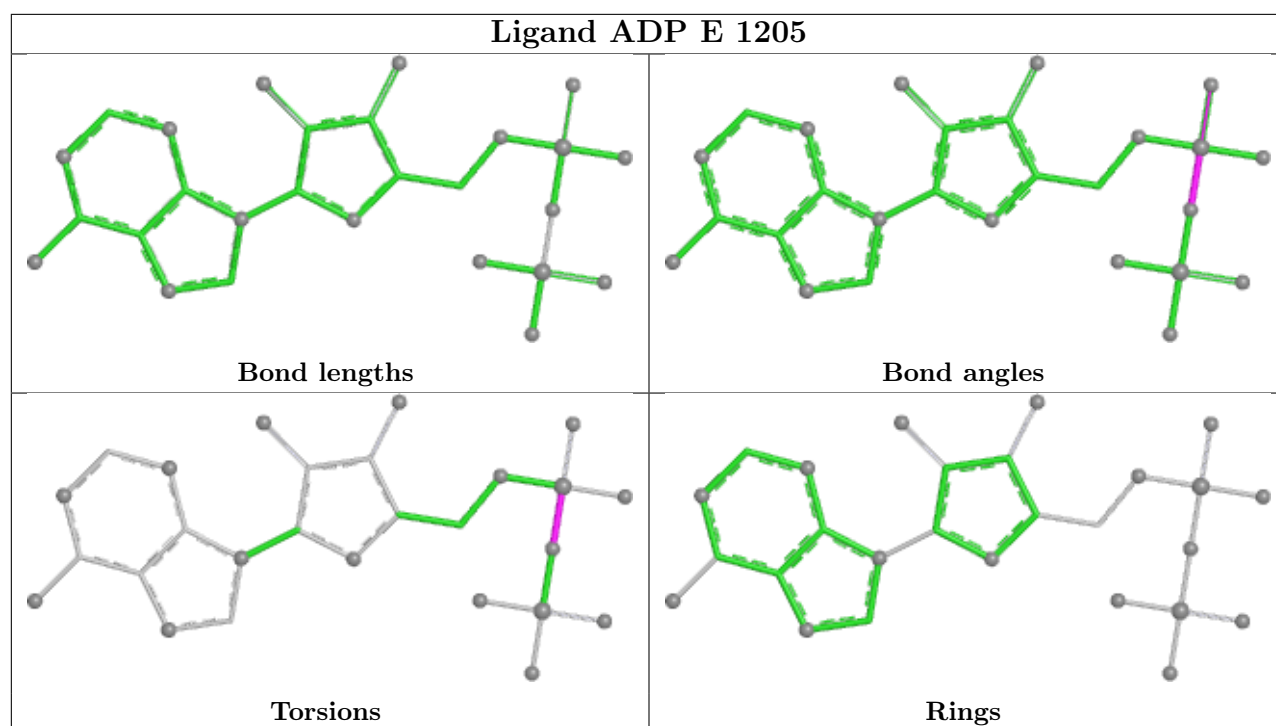
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

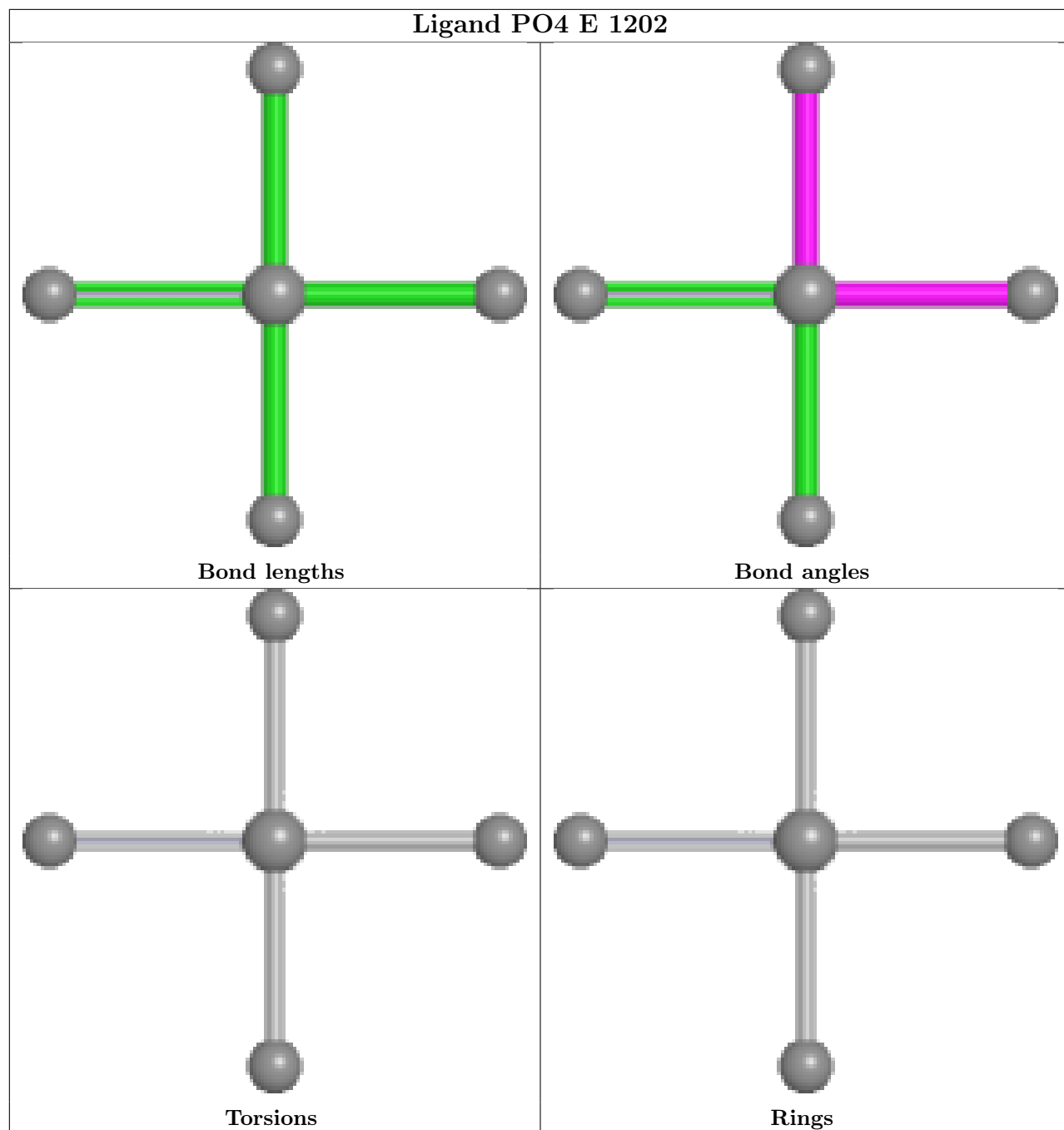


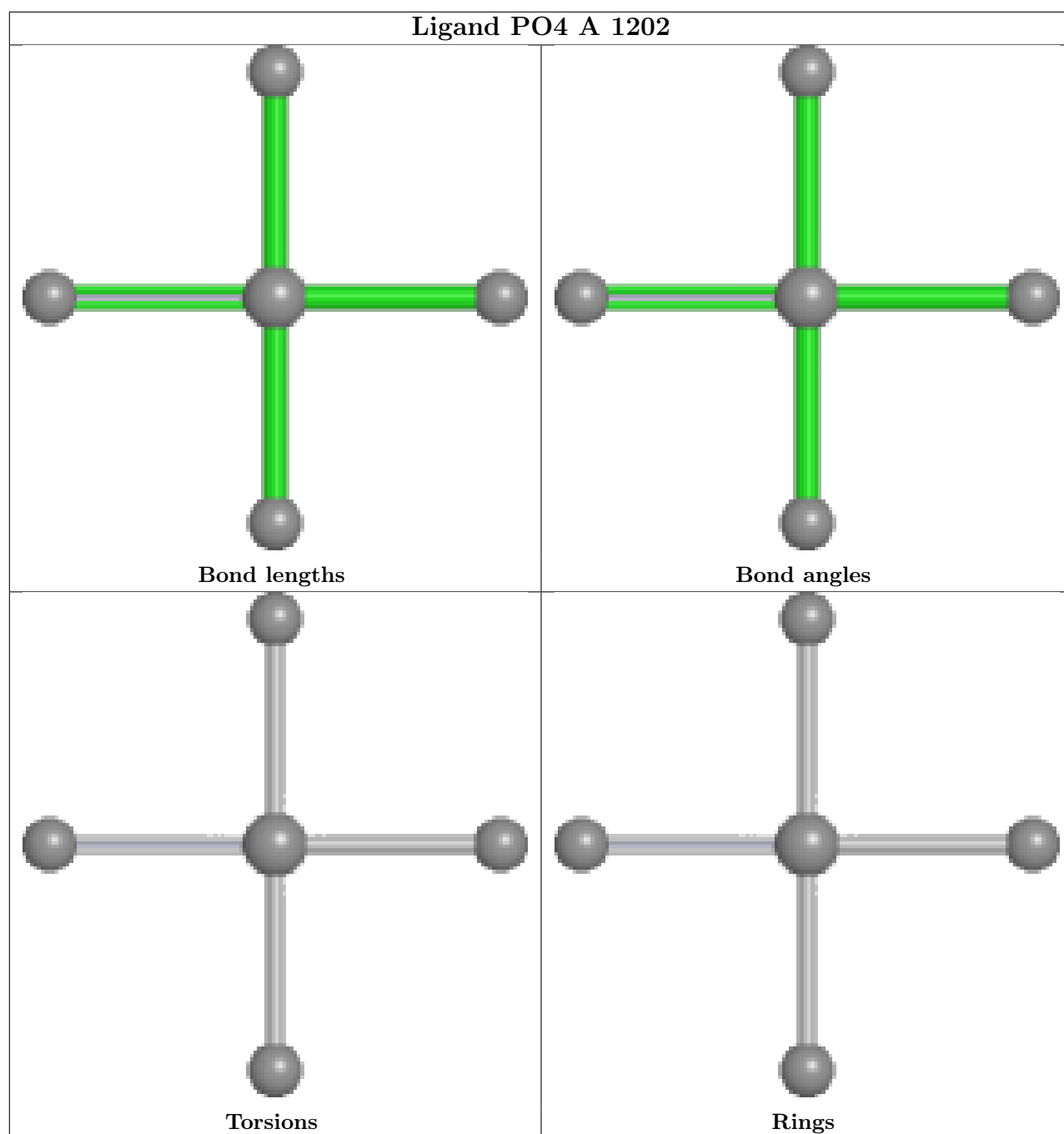


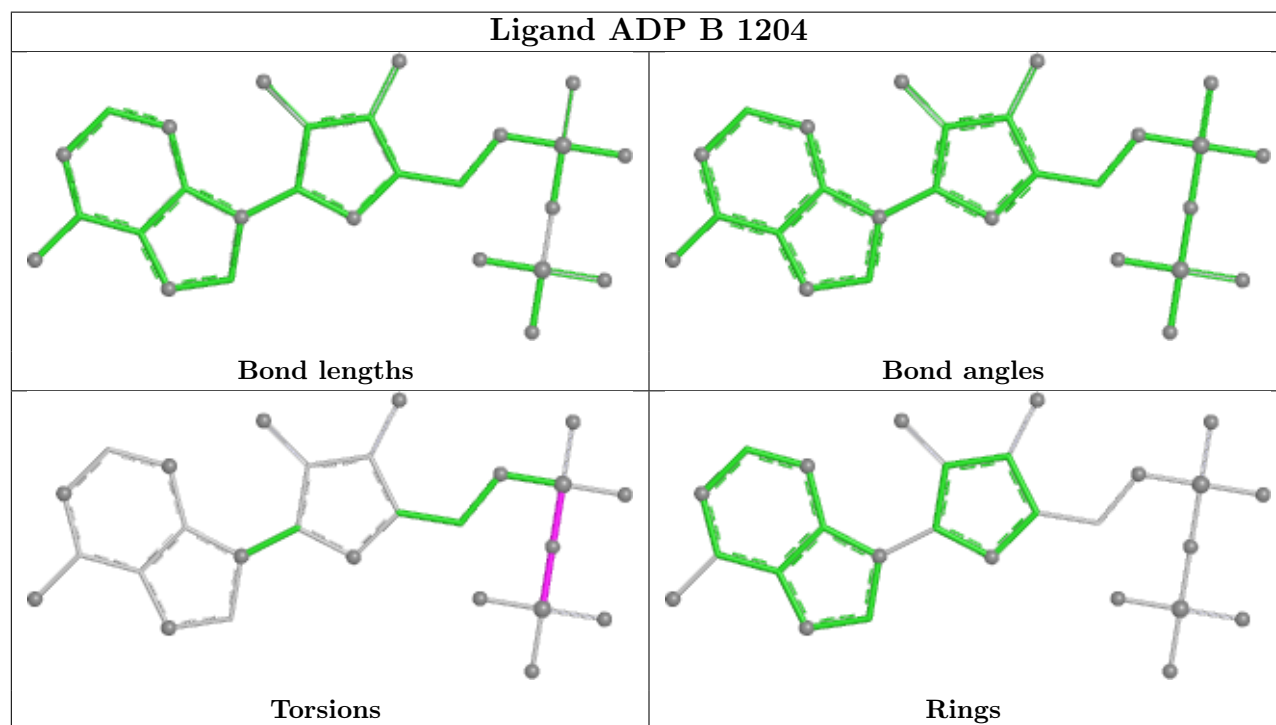
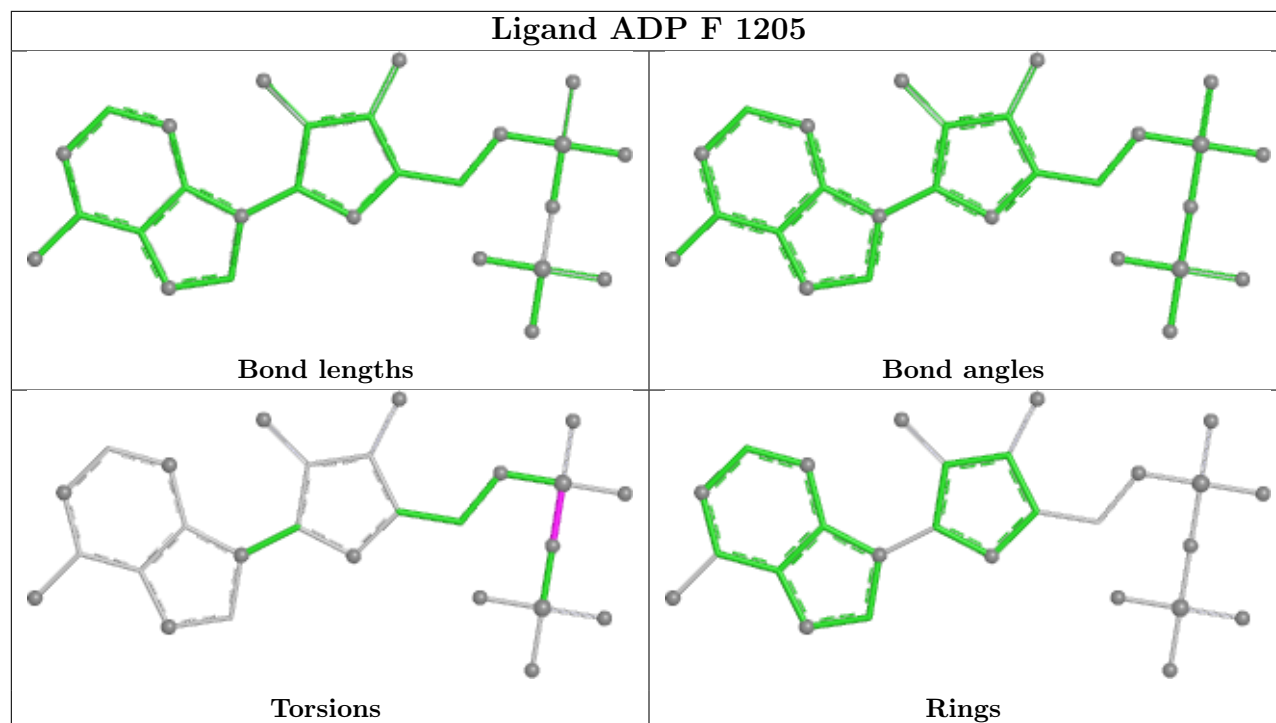




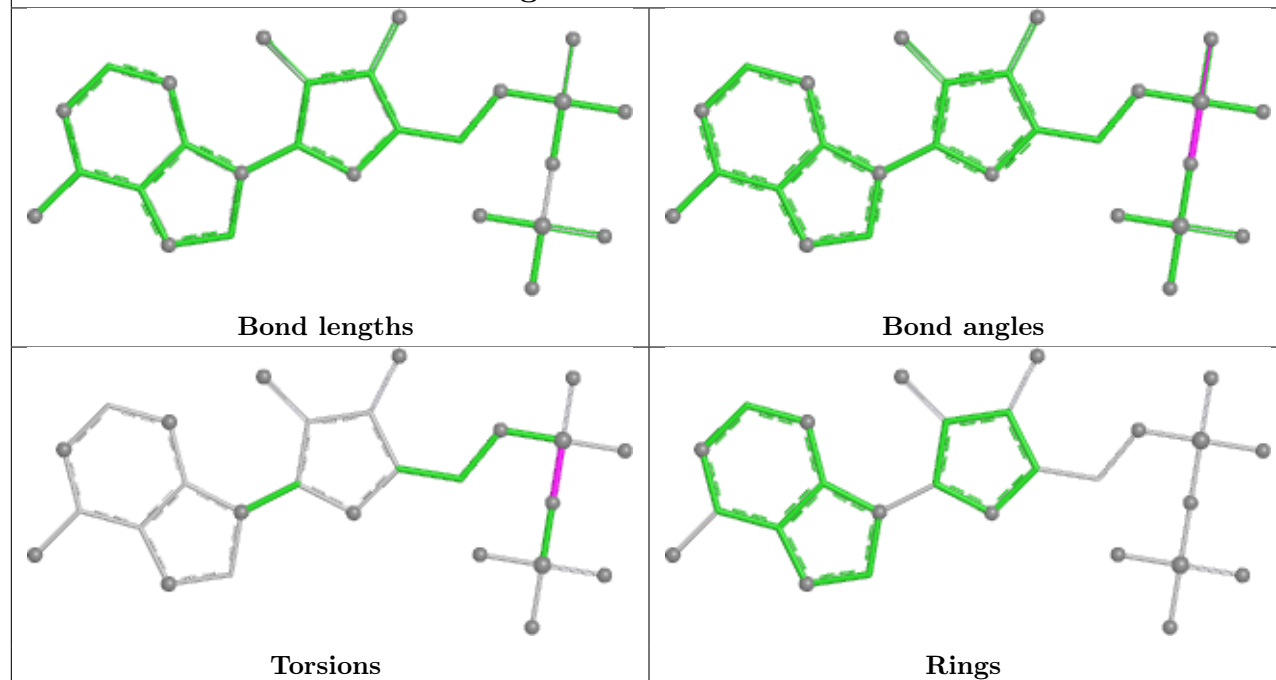




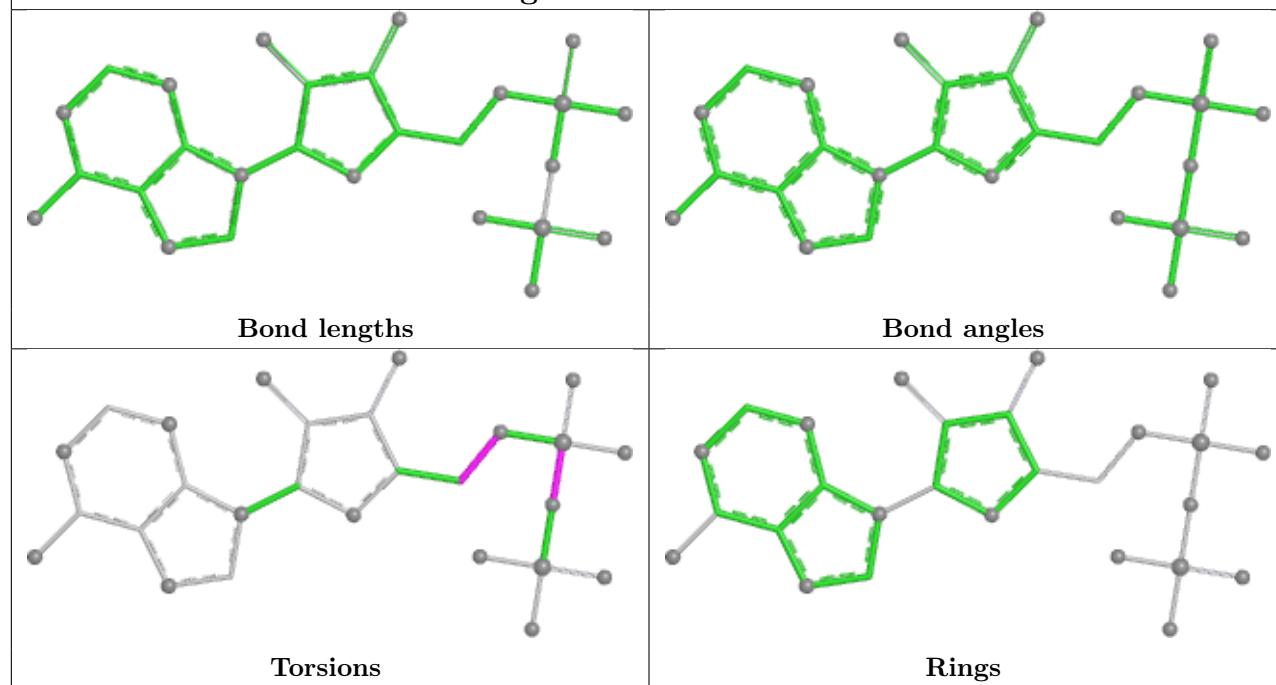


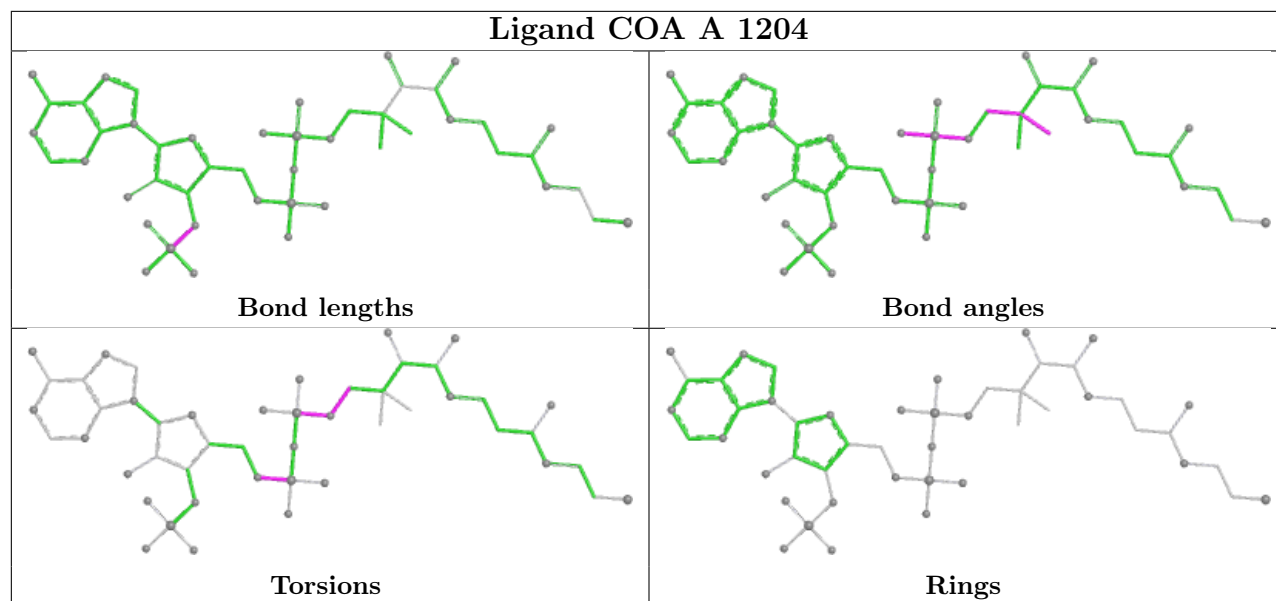


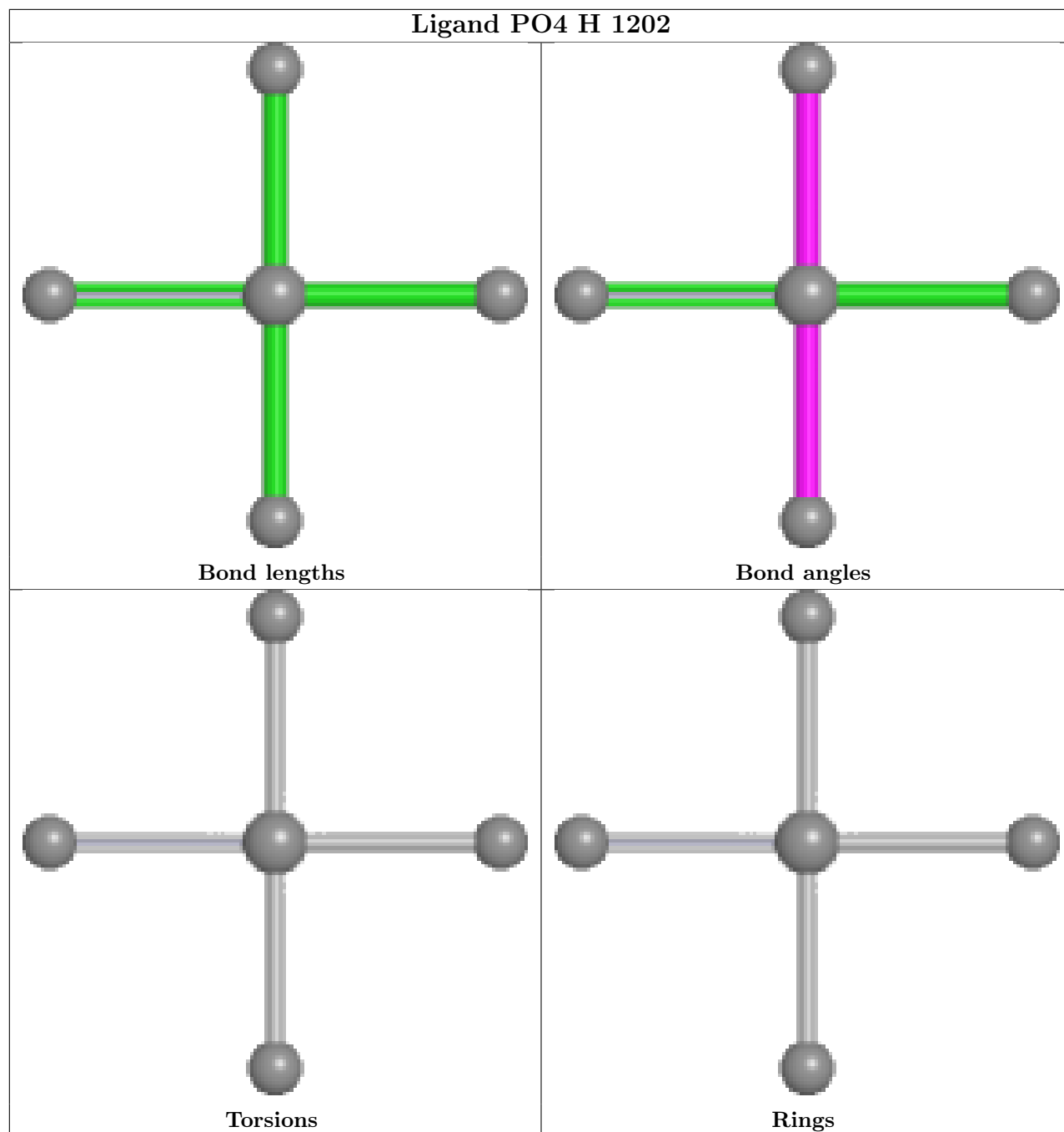
Ligand ADP G 1205

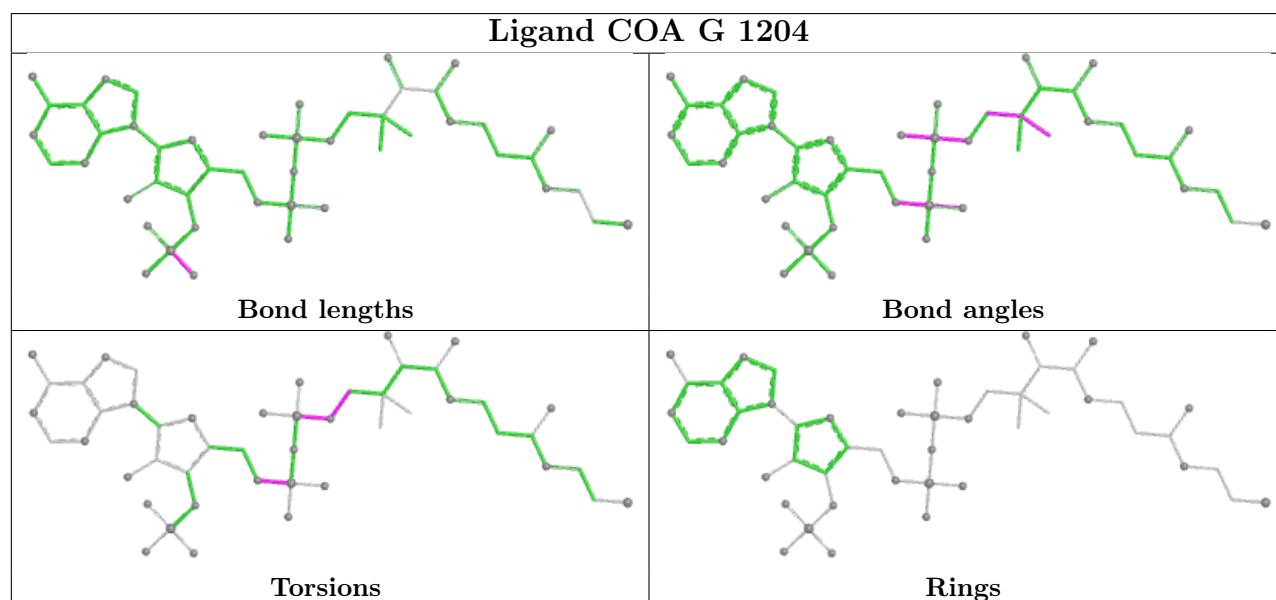
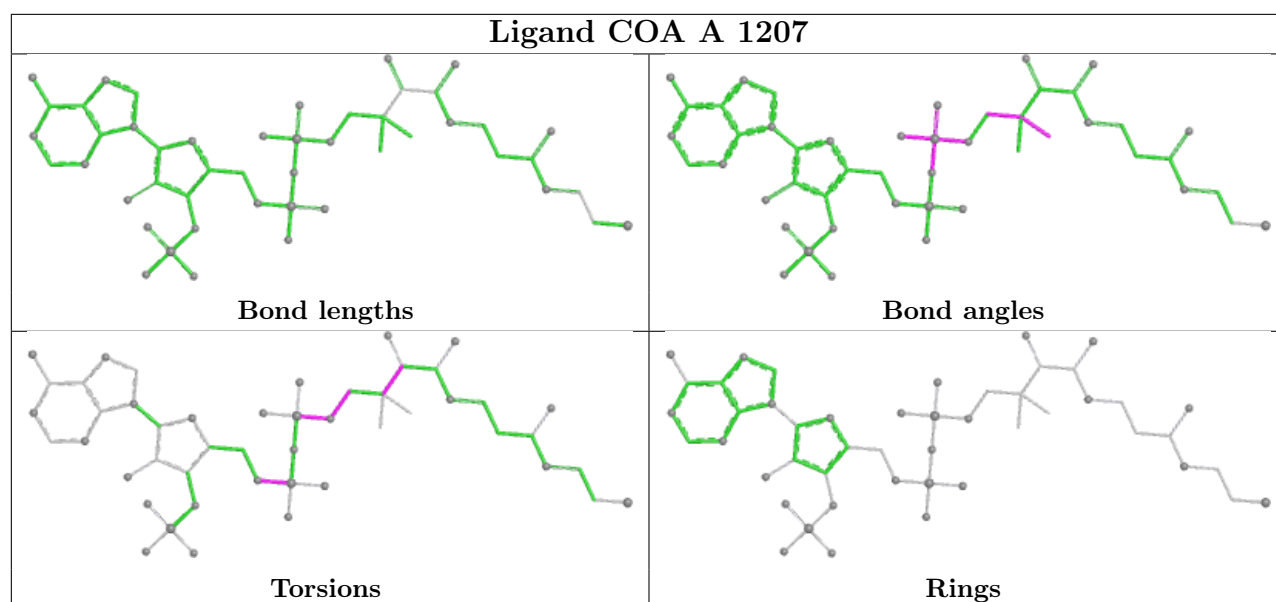


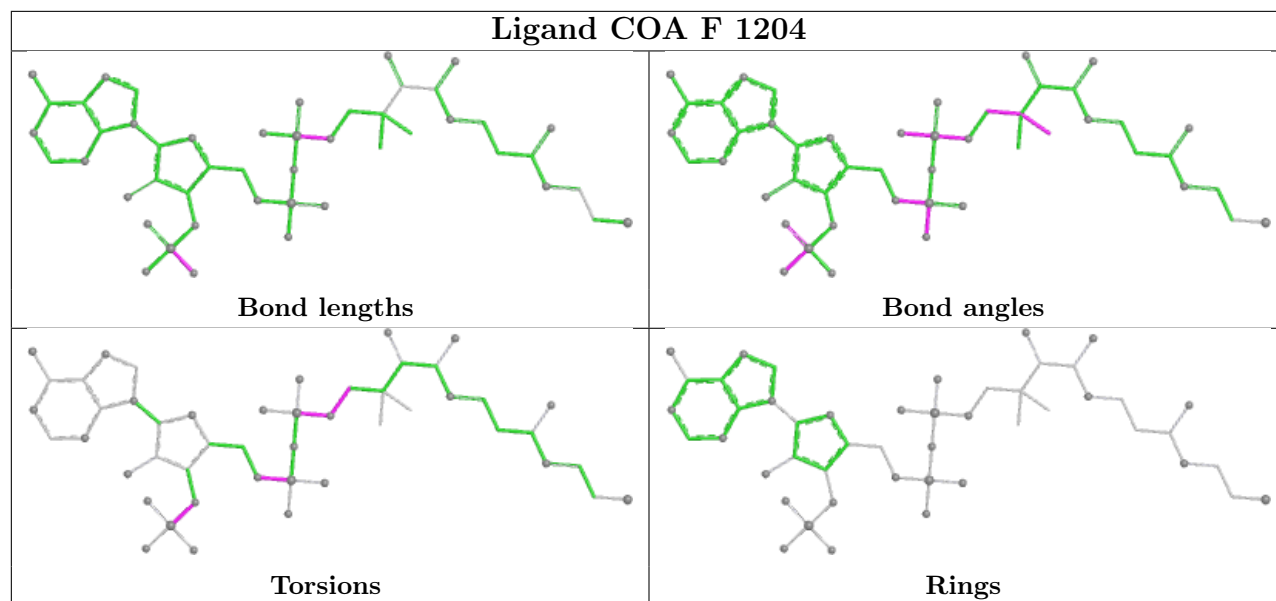
Ligand ADP A 1205

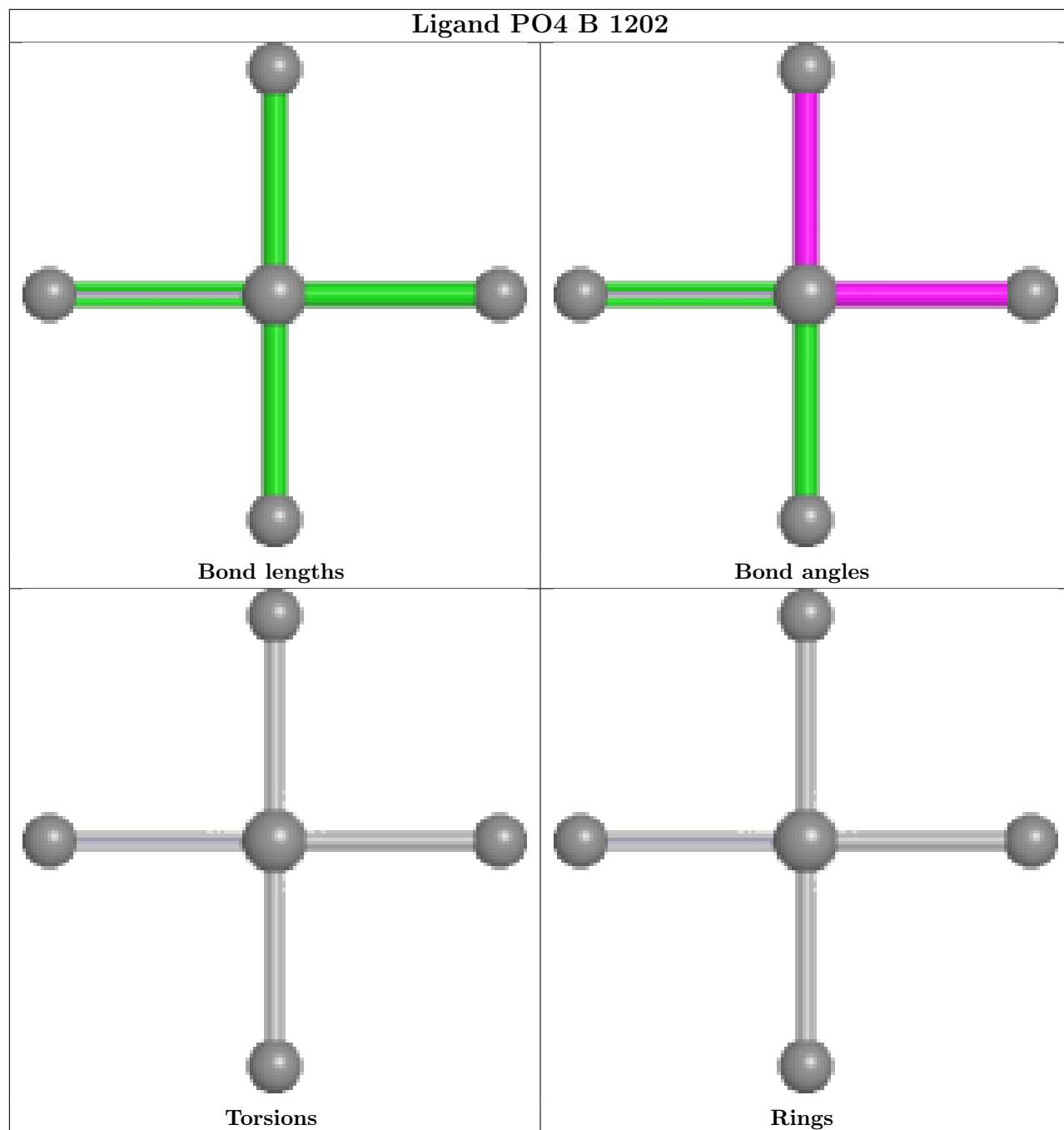


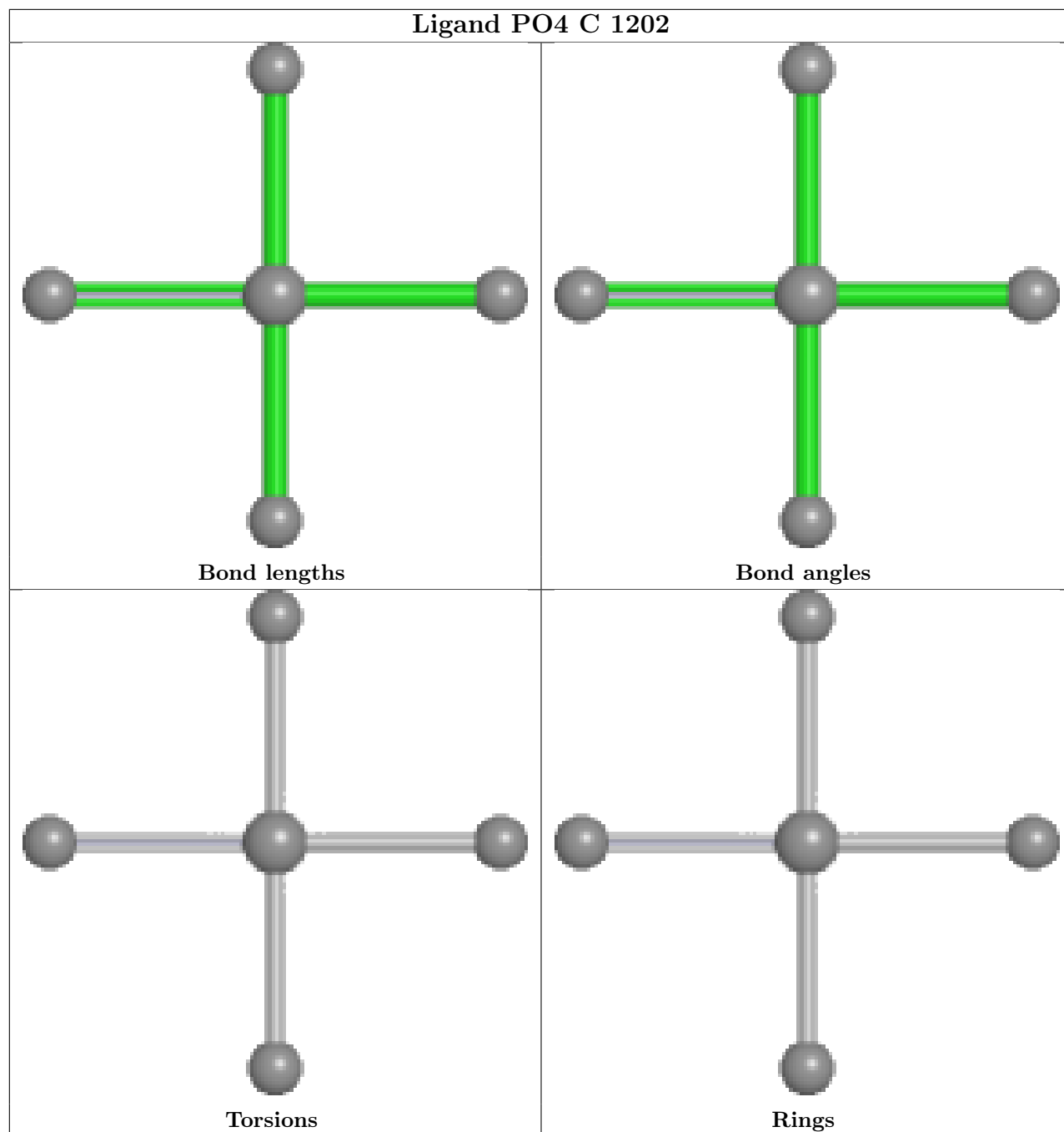


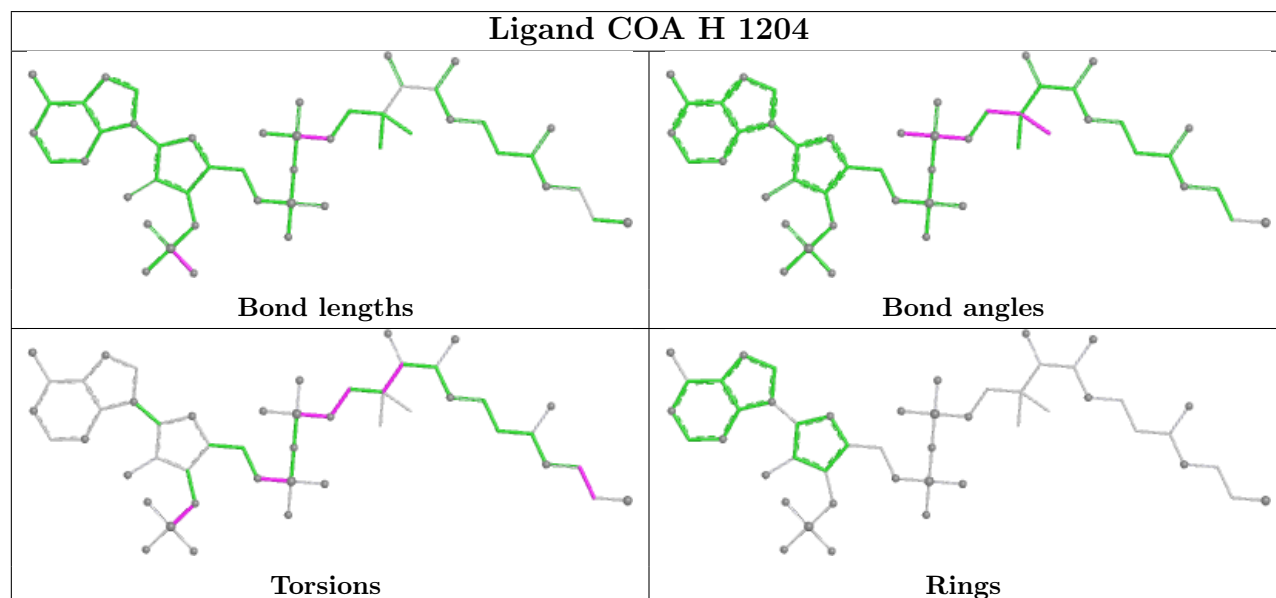
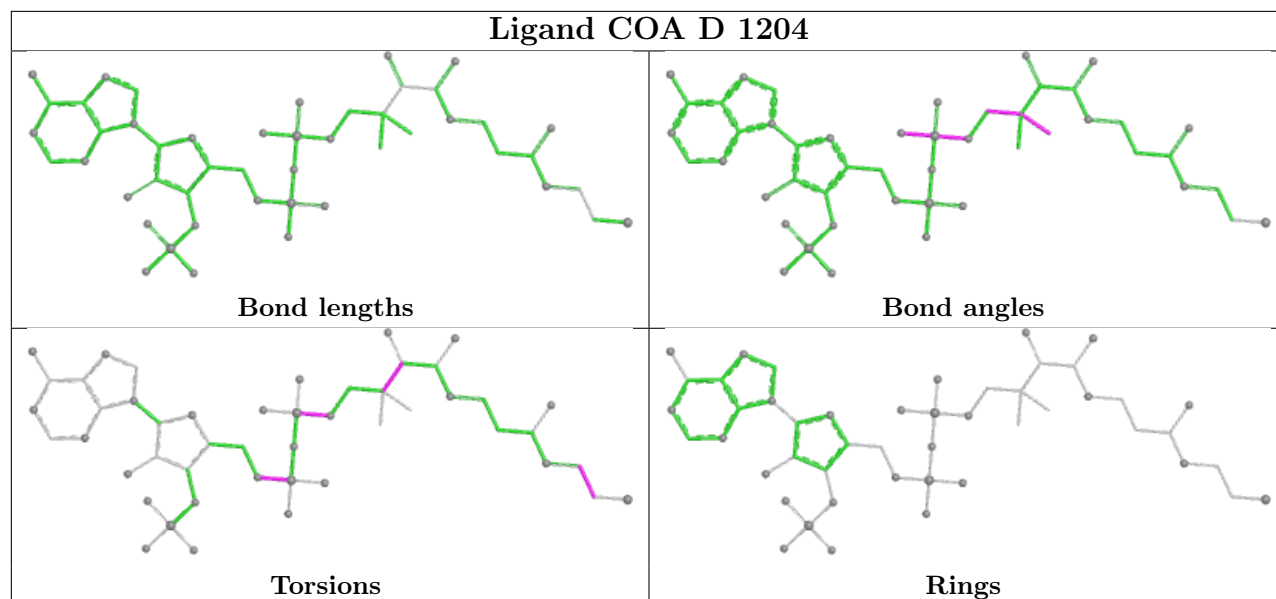


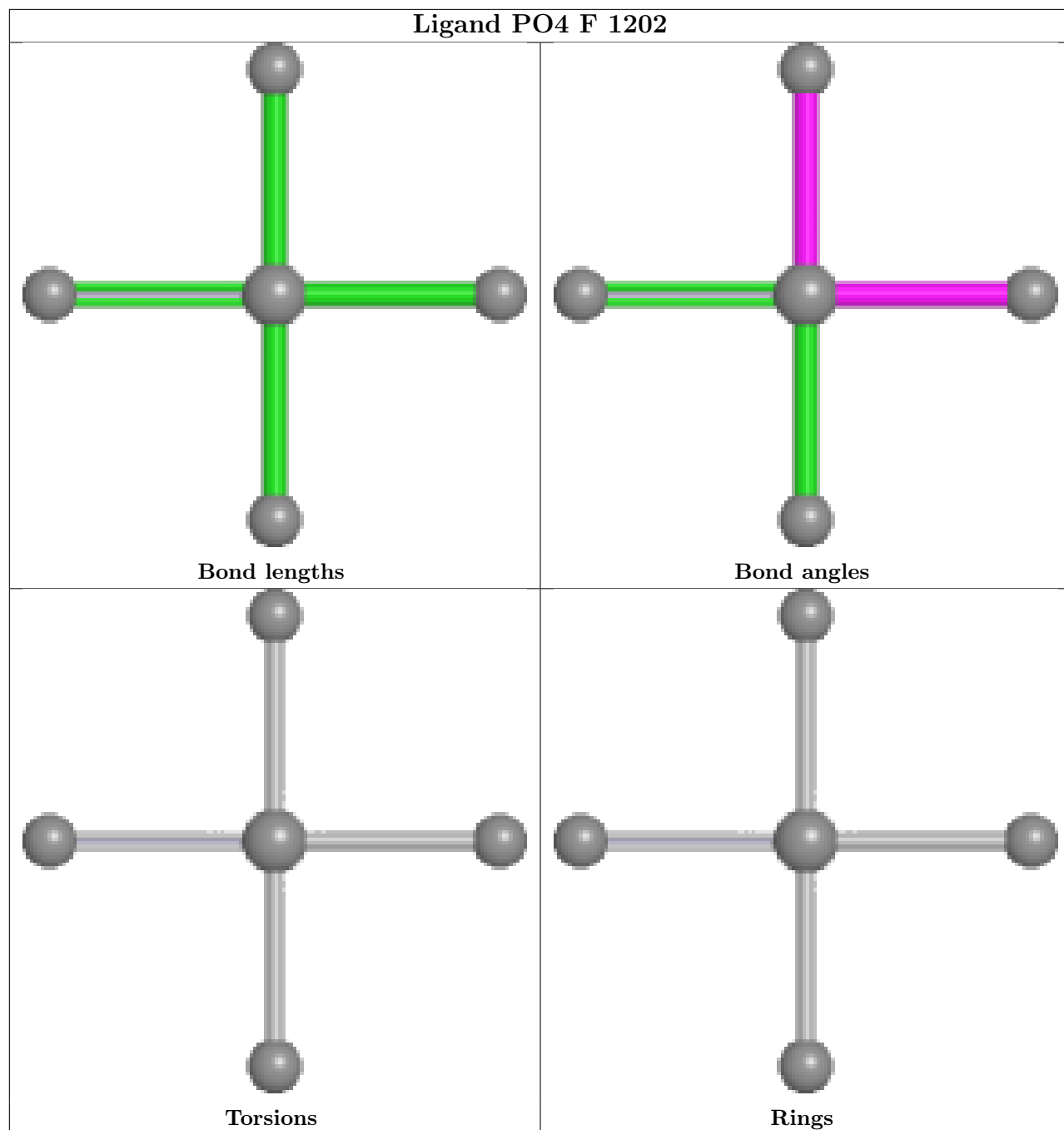


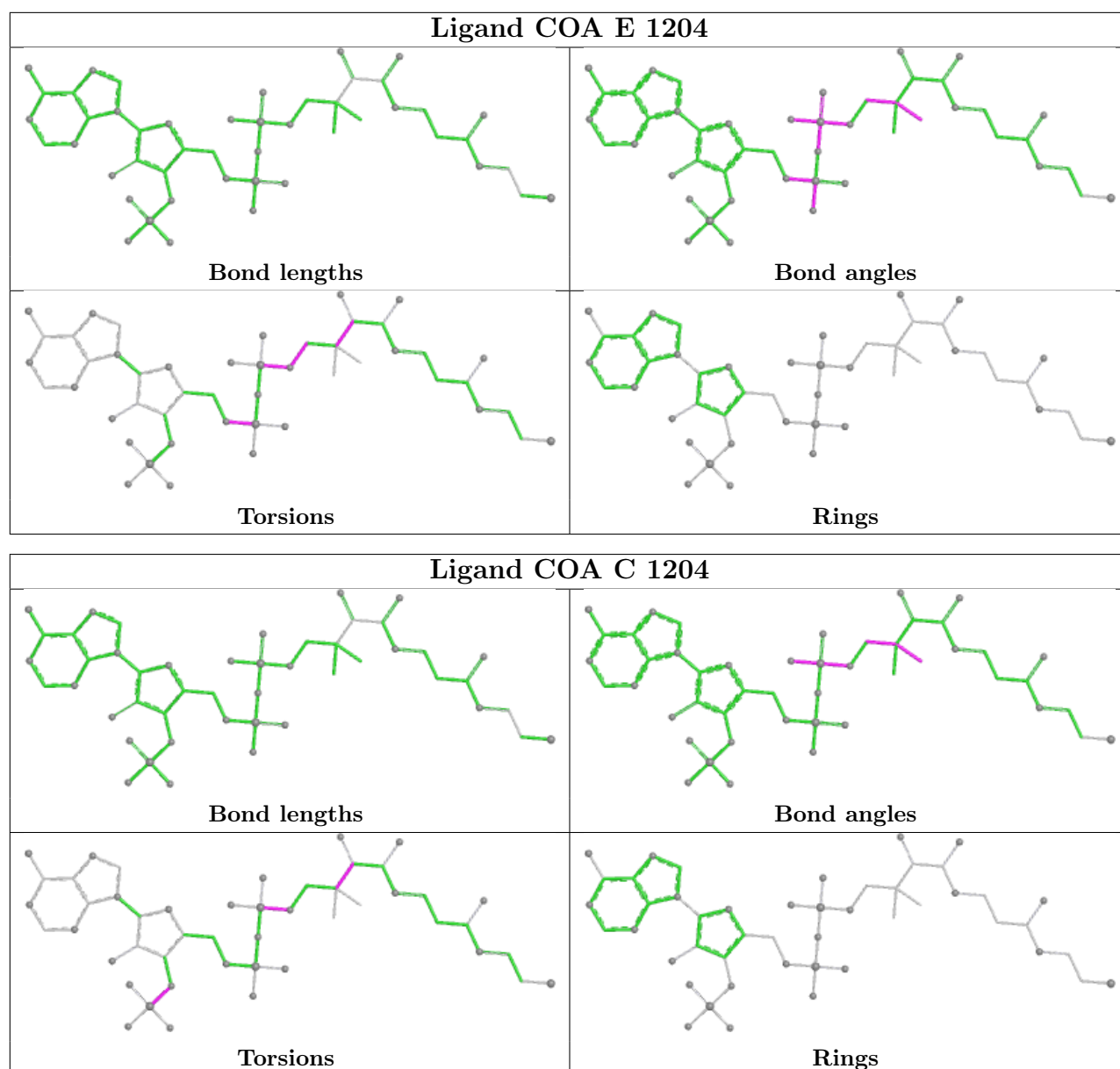












5.7 Other polymers [i](#)

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	1033/1050 (98%)	-0.56	1 (0%) 92 90	76, 130, 172, 197	0
1	B	1033/1050 (98%)	-0.58	1 (0%) 92 90	79, 119, 168, 209	0
1	C	1033/1050 (98%)	-0.56	3 (0%) 90 82	71, 130, 178, 202	0
1	D	1033/1050 (98%)	-0.58	2 (0%) 91 86	71, 116, 152, 246	0
1	E	1033/1050 (98%)	-0.60	2 (0%) 91 86	77, 114, 150, 180	0
1	F	1033/1050 (98%)	-0.53	0 100 100	84, 123, 181, 200	0
1	G	1033/1050 (98%)	-0.57	1 (0%) 92 90	86, 139, 192, 211	0
1	H	1033/1050 (98%)	-0.58	1 (0%) 92 90	83, 123, 162, 195	0
All	All	8264/8400 (98%)	-0.57	11 (0%) 92 90	71, 123, 175, 246	0

The worst 5 of 11 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	424	ILE	2.7
1	E	277	THR	2.6
1	C	627	GLY	2.6
1	D	421	HIS	2.5
1	E	305	GLY	2.4

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

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.

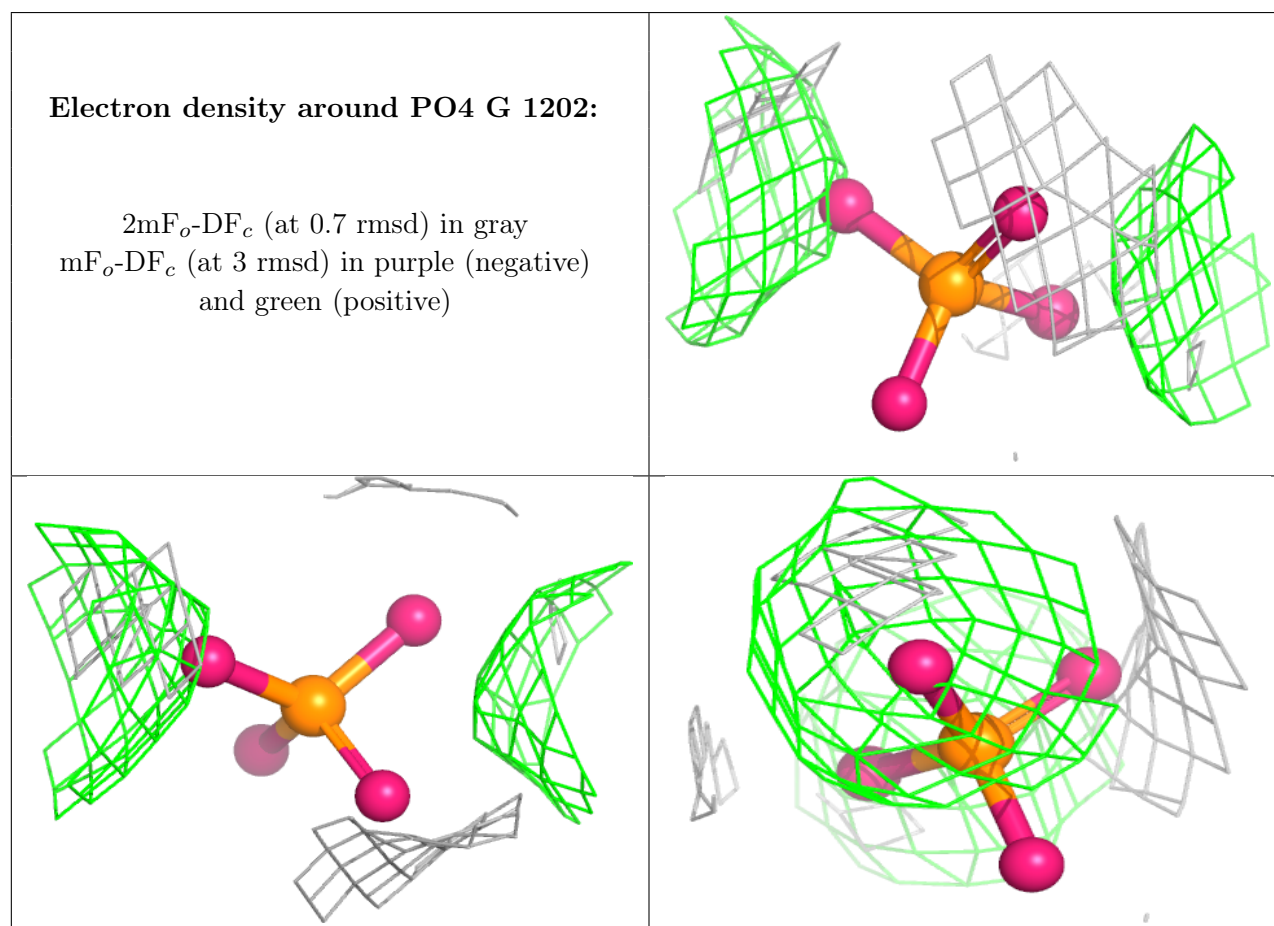
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	PO4	G	1202	5/5	0.81	0.10	132,134,137,138	0
3	PO4	F	1202	5/5	0.88	0.09	111,114,116,117	0
3	PO4	C	1202	5/5	0.88	0.09	131,131,132,132	0
2	MG	D	1206	1/1	0.90	0.07	134,134,134,134	0
2	MG	H	1201	1/1	0.91	0.19	89,89,89,89	0
3	PO4	B	1202	5/5	0.92	0.09	113,114,115,115	0
6	ADP	B	1204	27/27	0.92	0.07	140,161,170,172	0
4	FLC	A	1203	13/13	0.93	0.08	138,150,151,152	0
5	COA	A	1204	48/48	0.93	0.08	103,120,141,147	0
5	COA	A	1207	48/48	0.93	0.08	105,113,134,138	0
3	PO4	E	1202	5/5	0.93	0.06	100,104,105,106	0
6	ADP	F	1205	27/27	0.93	0.07	149,156,180,183	0
4	FLC	H	1203	13/13	0.94	0.06	131,132,133,134	0
3	PO4	H	1202	5/5	0.94	0.08	115,116,117,118	0
3	PO4	A	1202	5/5	0.94	0.06	132,132,133,134	0
5	COA	E	1204	48/48	0.94	0.08	90,109,125,129	0
5	COA	H	1204	48/48	0.94	0.09	107,112,128,133	0
6	ADP	A	1205	27/27	0.94	0.06	122,132,145,145	0
4	FLC	E	1203	13/13	0.94	0.07	106,116,121,121	0
6	ADP	E	1205	27/27	0.94	0.08	117,130,134,137	0
4	FLC	G	1203	13/13	0.94	0.07	133,143,151,153	0
6	ADP	H	1205	27/27	0.94	0.06	102,123,128,128	0
3	PO4	D	1202	5/5	0.95	0.06	115,115,116,116	0
4	FLC	F	1203	13/13	0.95	0.08	115,134,140,143	0
6	ADP	C	1205	27/27	0.95	0.06	132,149,158,158	0
2	MG	C	1201	1/1	0.95	0.07	94,94,94,94	0
5	COA	F	1204	48/48	0.95	0.07	94,115,128,132	0
2	MG	E	1201	1/1	0.95	0.12	71,71,71,71	0
2	MG	A	1201	1/1	0.96	0.10	100,100,100,100	0
4	FLC	C	1203	13/13	0.96	0.06	132,137,140,142	0
6	ADP	D	1205	27/27	0.96	0.06	114,139,148,148	0
5	COA	G	1204	48/48	0.96	0.06	104,125,137,144	0
4	FLC	D	1203	13/13	0.96	0.05	97,108,123,124	0
6	ADP	G	1205	27/27	0.96	0.05	131,143,148,148	0
5	COA	D	1204	48/48	0.96	0.07	98,114,127,128	0
4	FLC	B	1203	13/13	0.97	0.06	117,120,122,122	0
2	MG	F	1201	1/1	0.97	0.10	82,82,82,82	0

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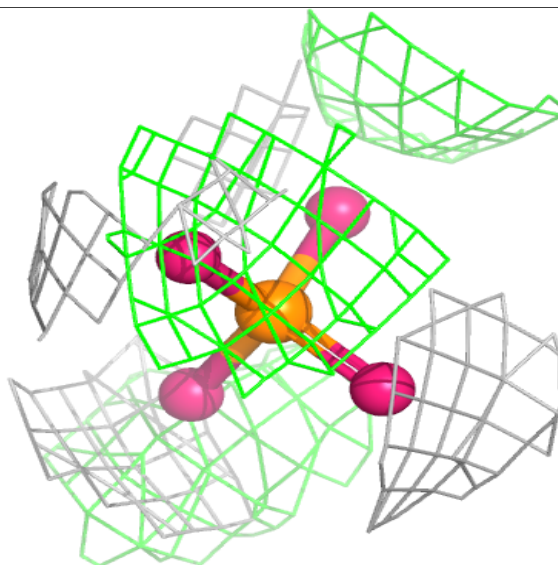
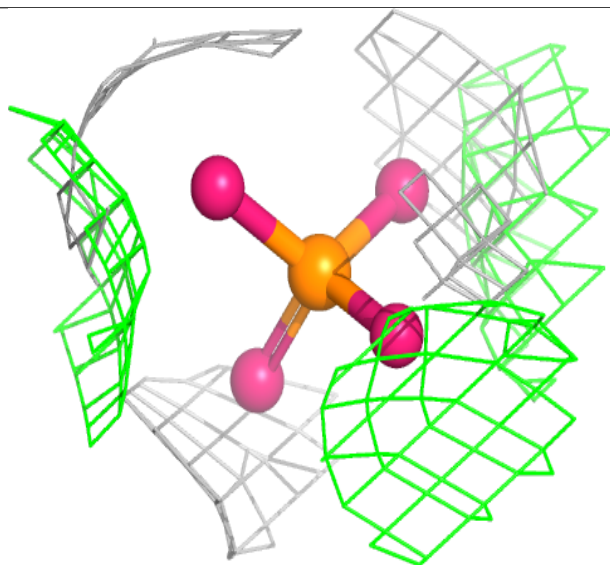
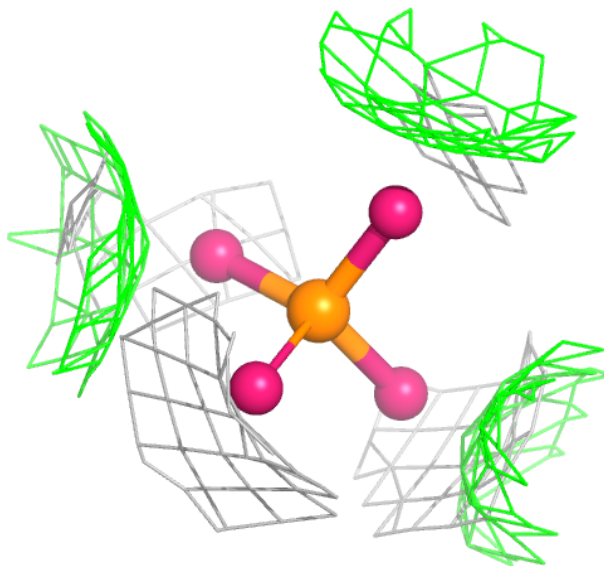
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	MG	B	1201	1/1	0.97	0.12	80,80,80,80	0
2	MG	H	1206	1/1	0.97	0.05	102,102,102,102	0
5	COA	C	1204	48/48	0.97	0.07	101,119,132,143	0
2	MG	C	1206	1/1	0.97	0.07	146,146,146,146	0
2	MG	D	1201	1/1	0.98	0.06	76,76,76,76	0
2	MG	F	1206	1/1	0.98	0.05	148,148,148,148	0
2	MG	G	1201	1/1	0.99	0.07	79,79,79,79	0
2	MG	G	1206	1/1	0.99	0.03	124,124,124,124	0
2	MG	A	1206	1/1	0.99	0.02	89,89,89,89	0
2	MG	E	1206	1/1	0.99	0.05	118,118,118,118	0
2	MG	B	1205	1/1	1.00	0.04	127,127,127,127	0

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



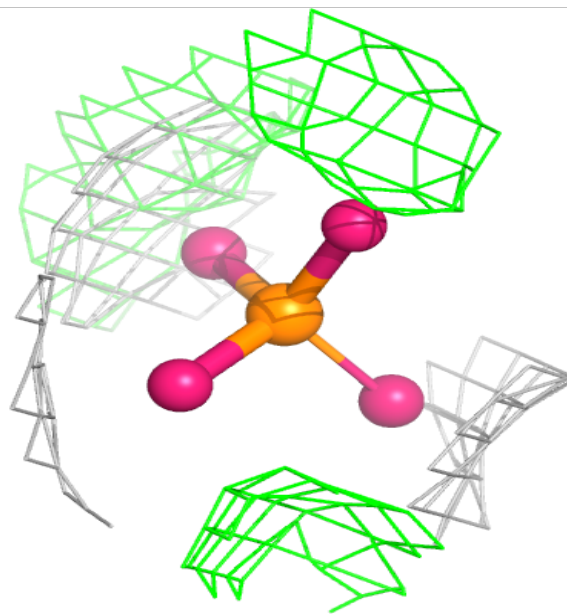
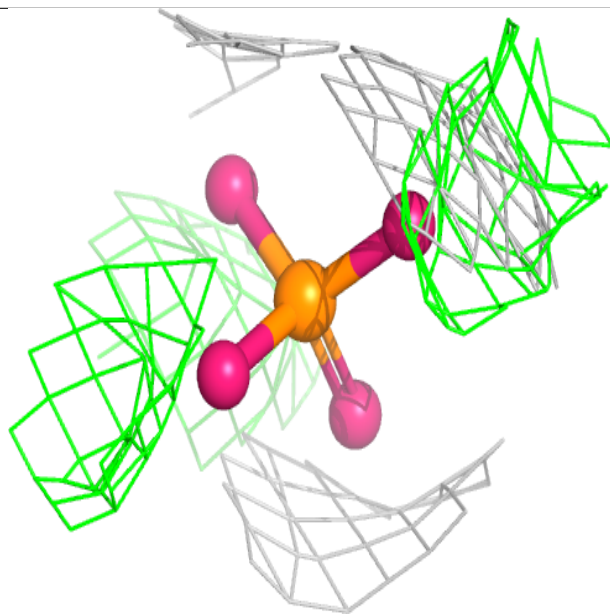
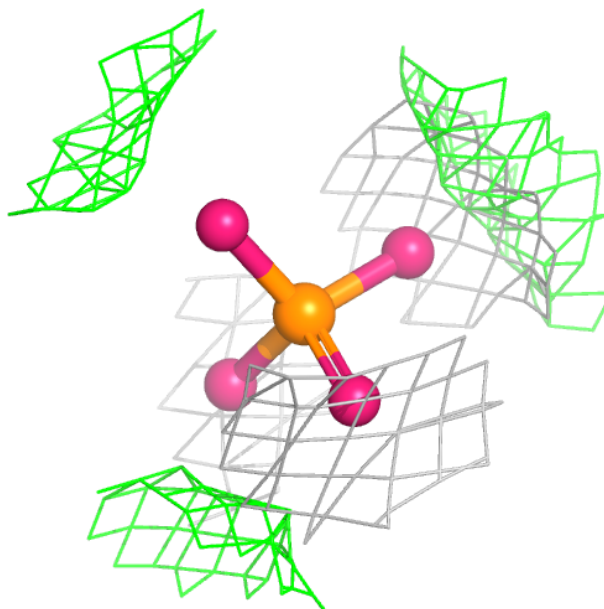
Electron density around PO4 F 1202:

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



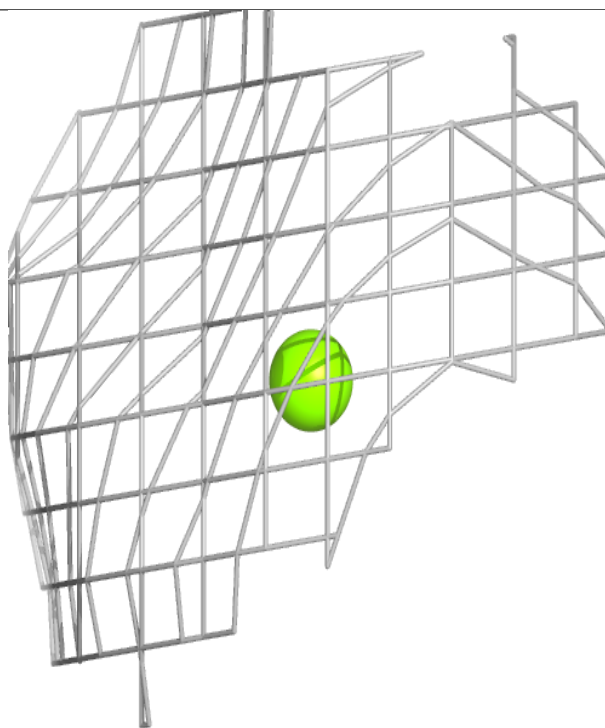
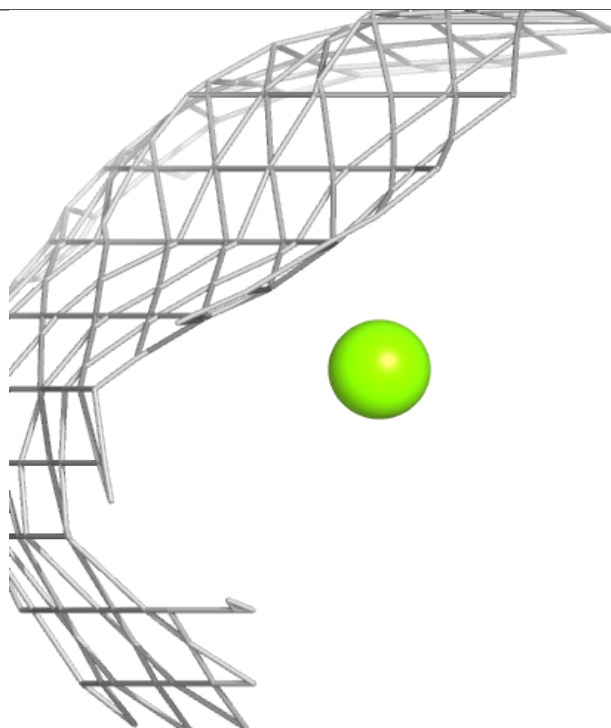
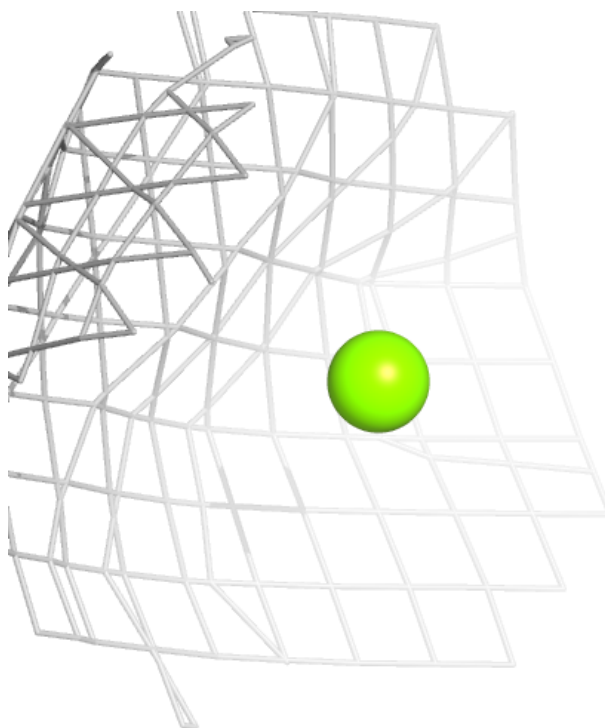
Electron density around PO4 C 1202:

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



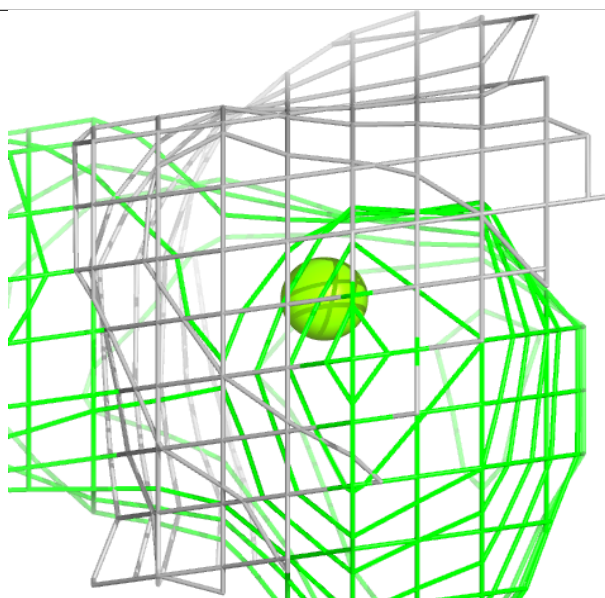
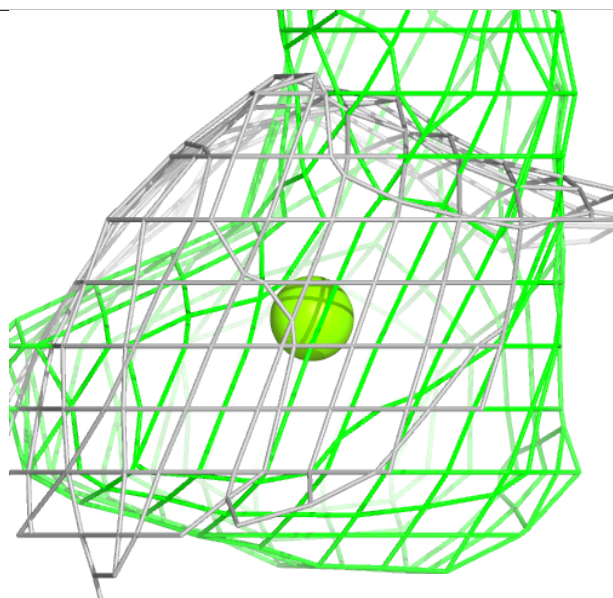
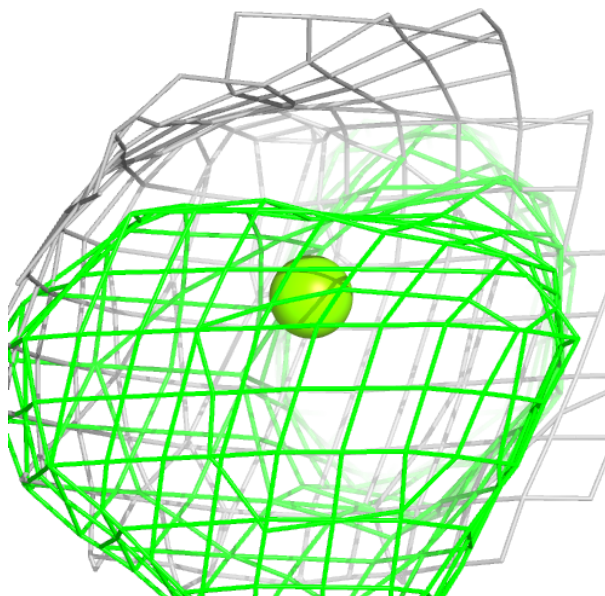
Electron density around MG D 1206:

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



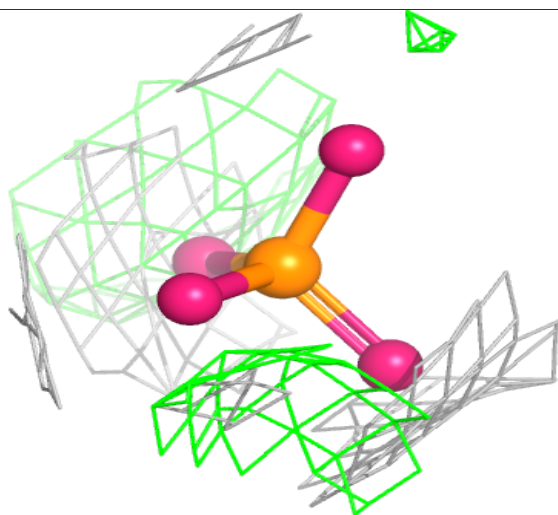
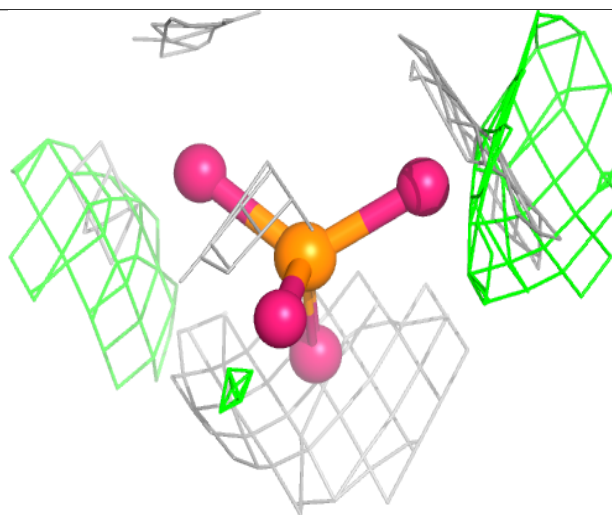
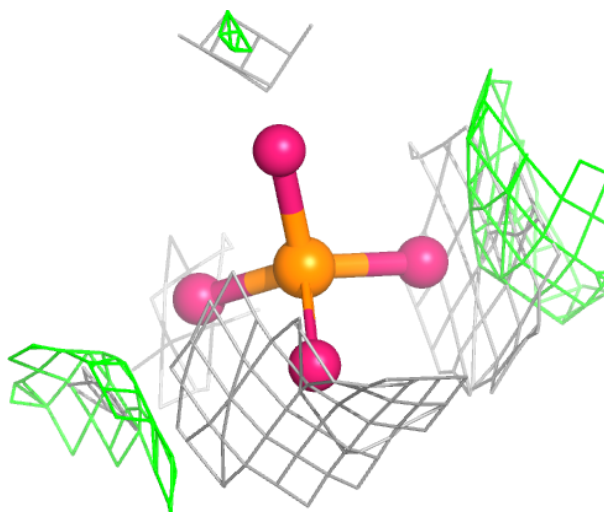
Electron density around MG H 1201:

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and green (positive)



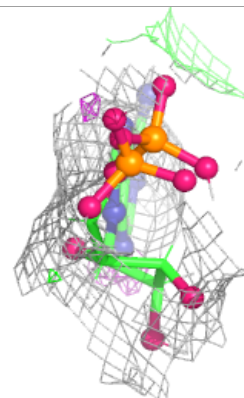
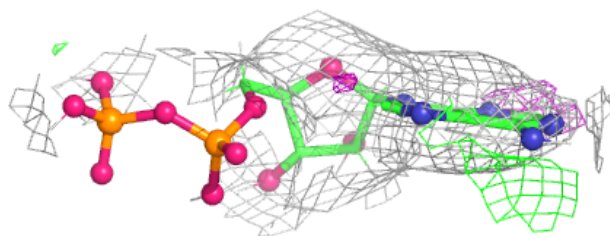
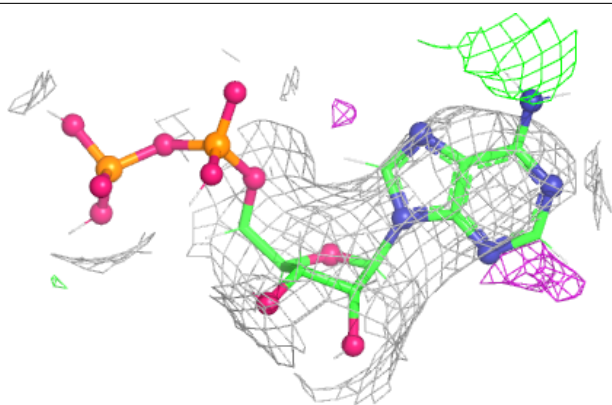
Electron density around PO4 B 1202:

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

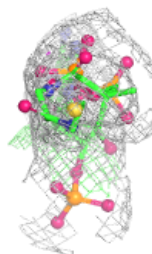
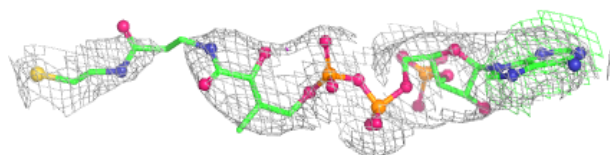
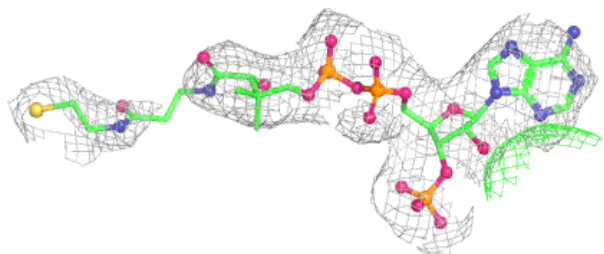


Electron density around ADP B 1204:

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

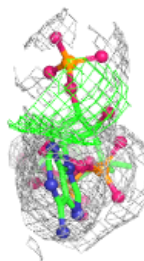
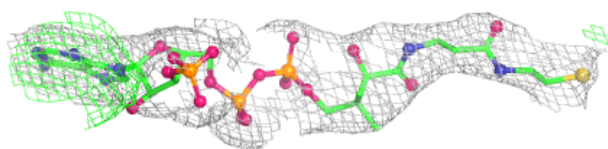
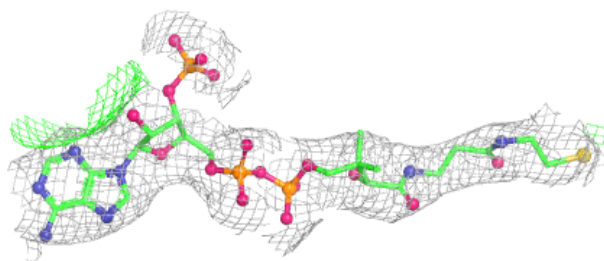
**Electron density around COA A 1204:**

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



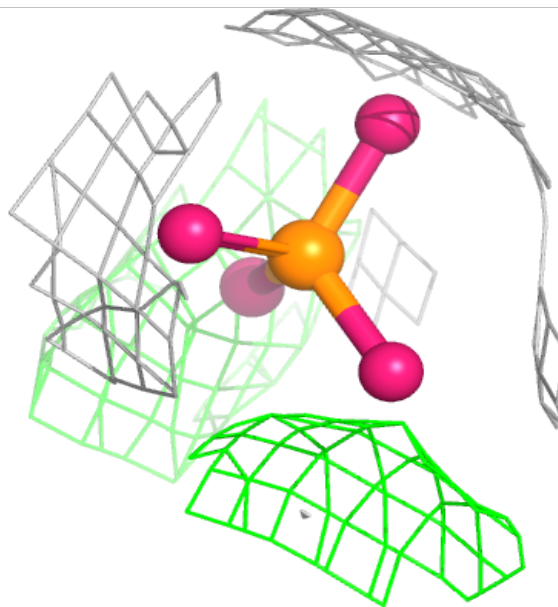
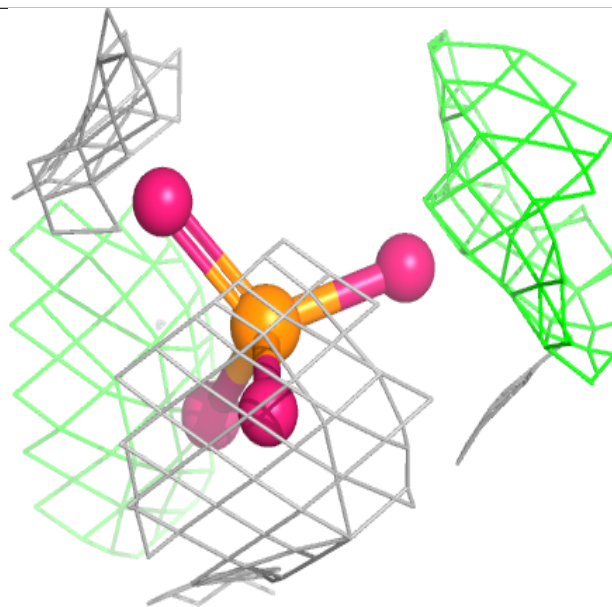
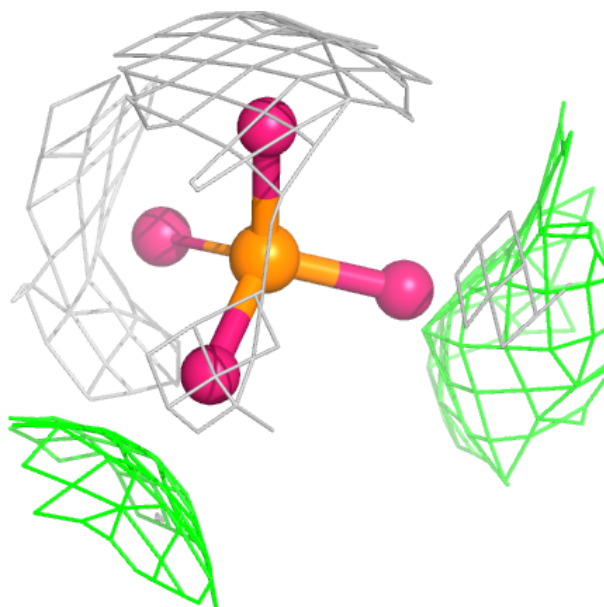
Electron density around COA A 1207:

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



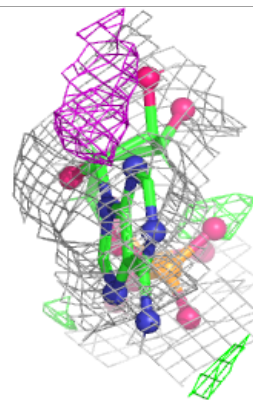
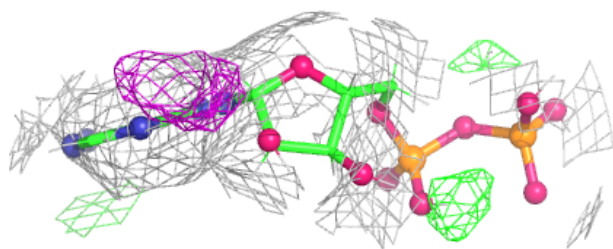
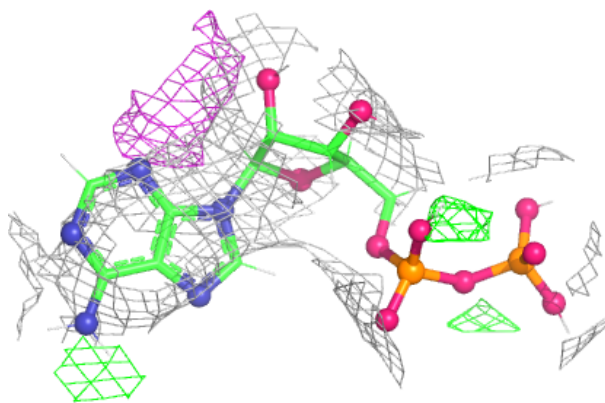
Electron density around PO4 E 1202:

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



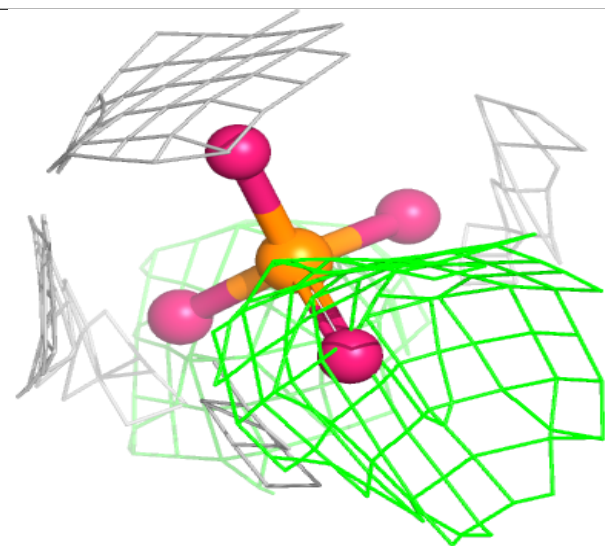
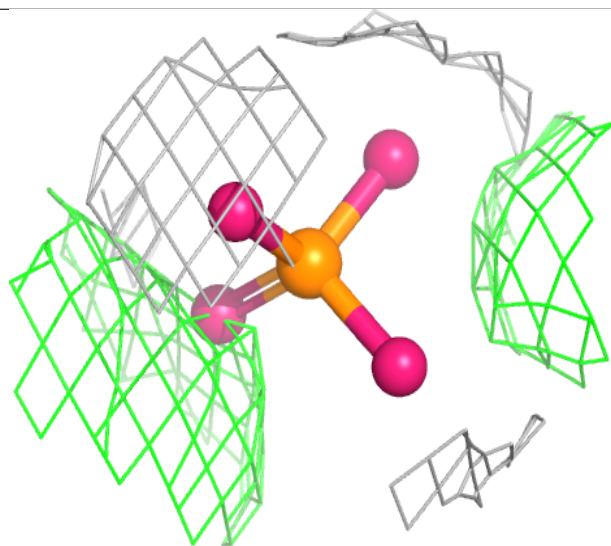
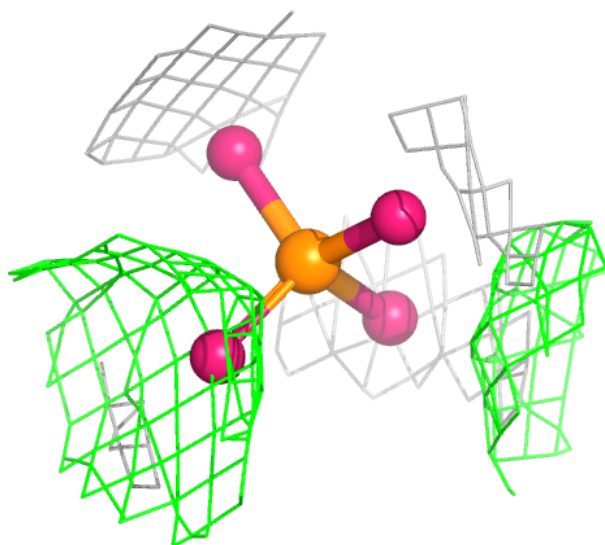
Electron density around ADP F 1205:

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



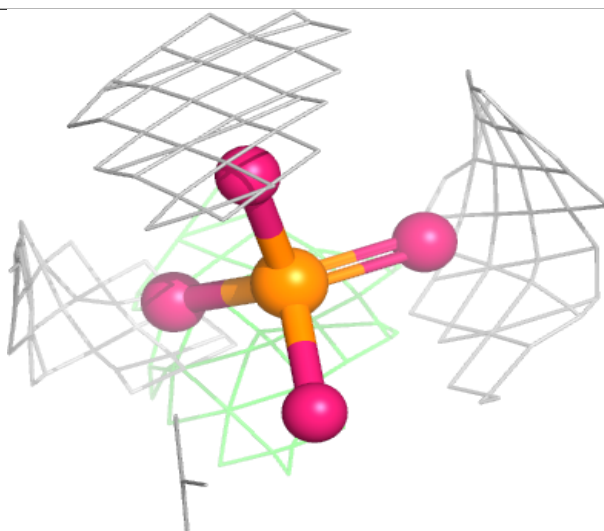
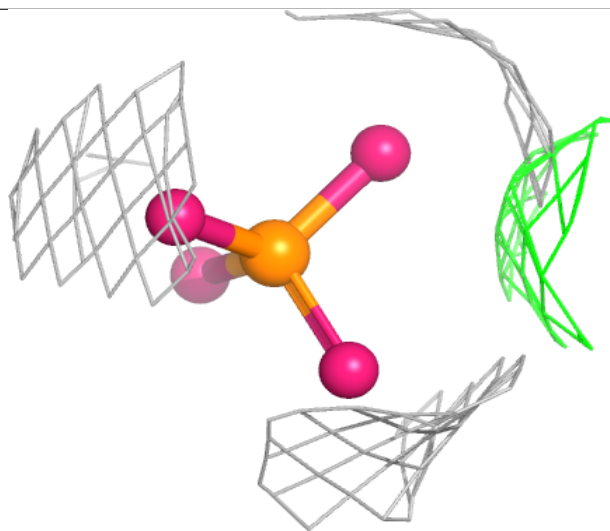
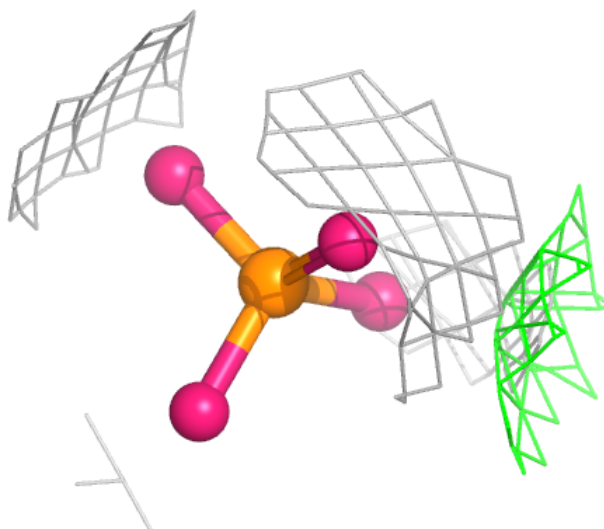
Electron density around PO4 H 1202:

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and green (positive)



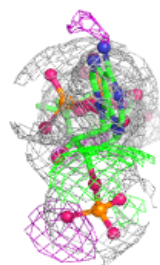
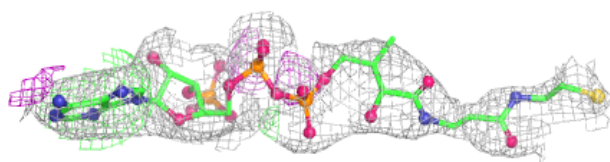
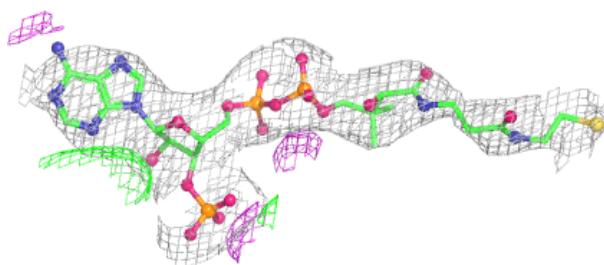
Electron density around PO4 A 1202:

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

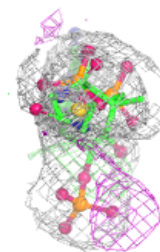
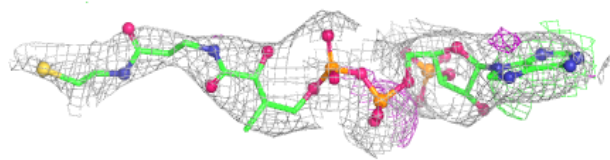
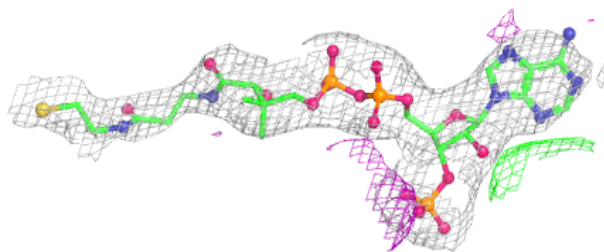


Electron density around COA E 1204:

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

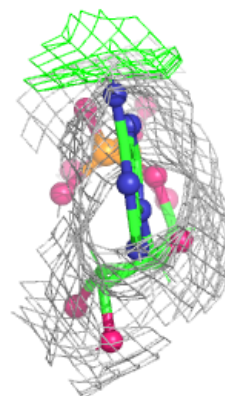
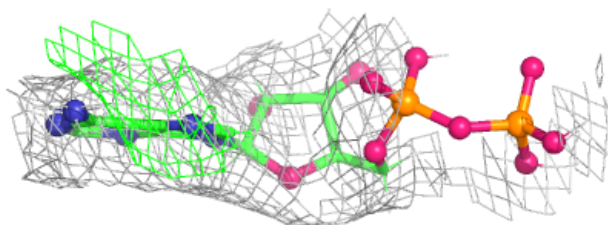
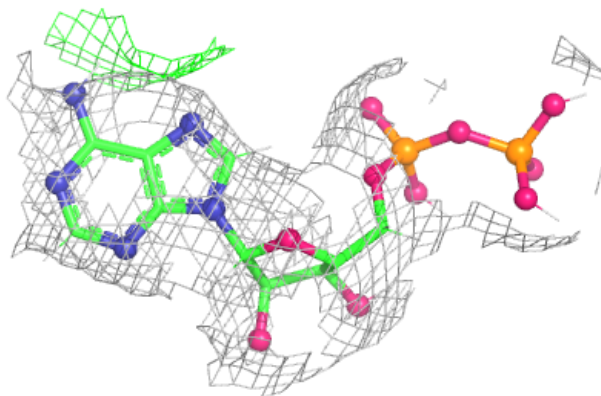
**Electron density around COA H 1204:**

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



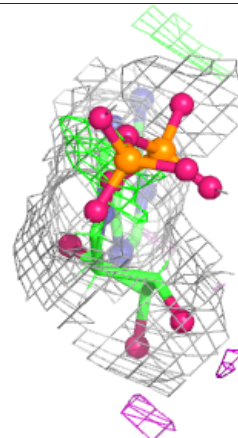
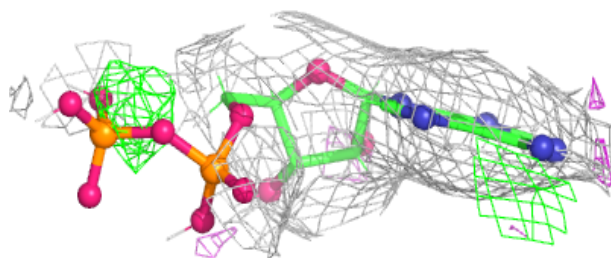
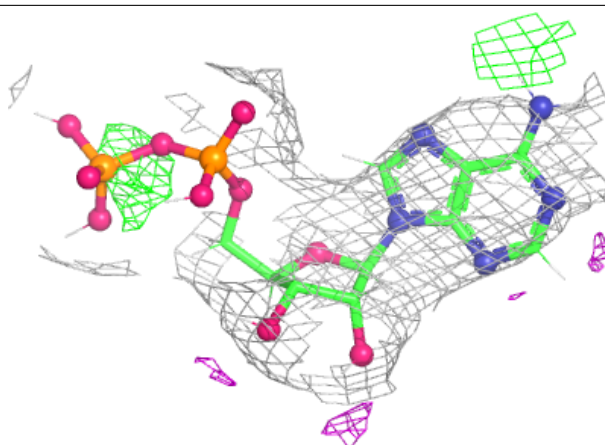
Electron density around ADP A 1205:

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and green (positive)

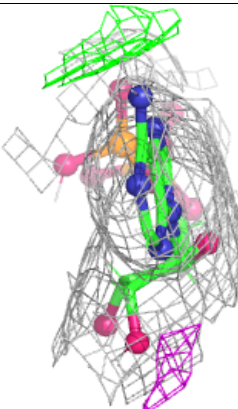
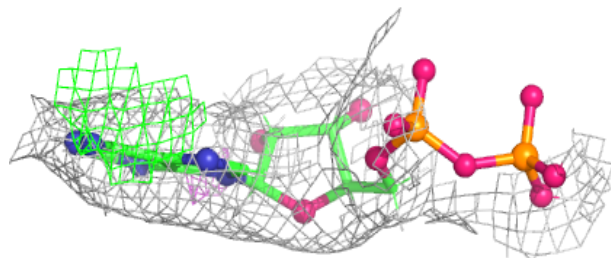
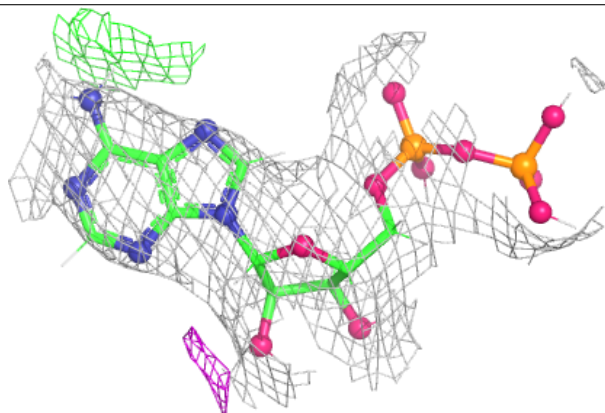


Electron density around ADP E 1205:

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

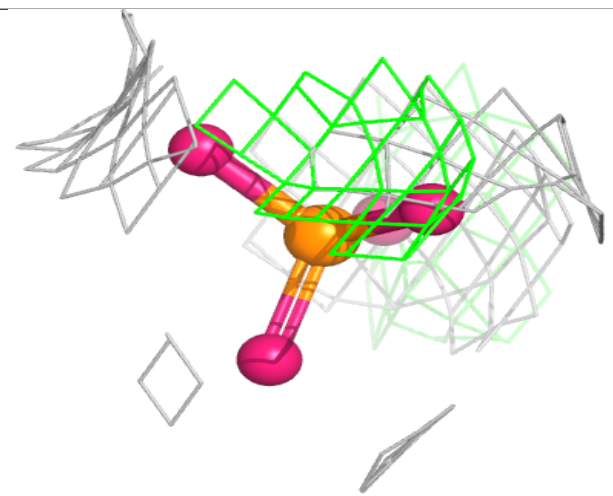
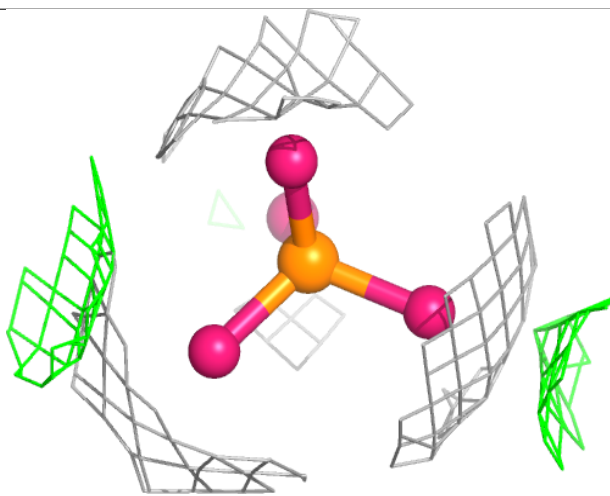
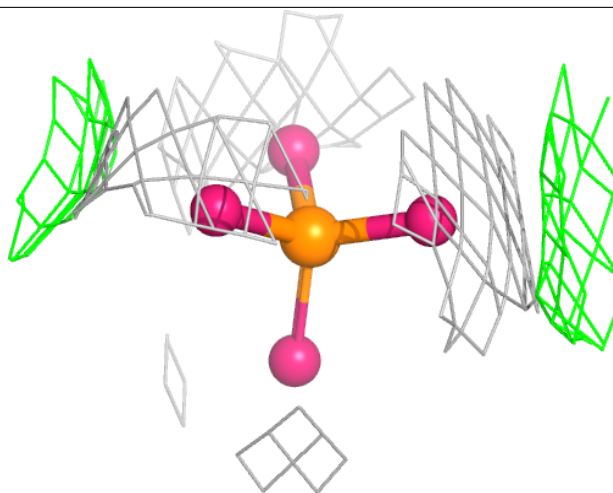
**Electron density around ADP H 1205:**

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



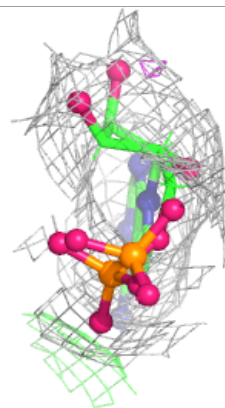
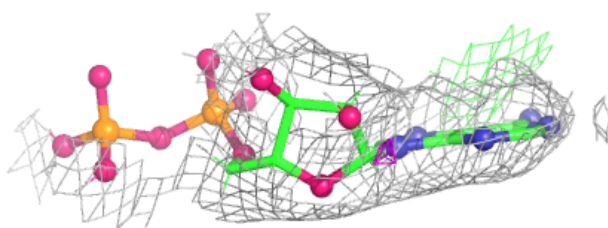
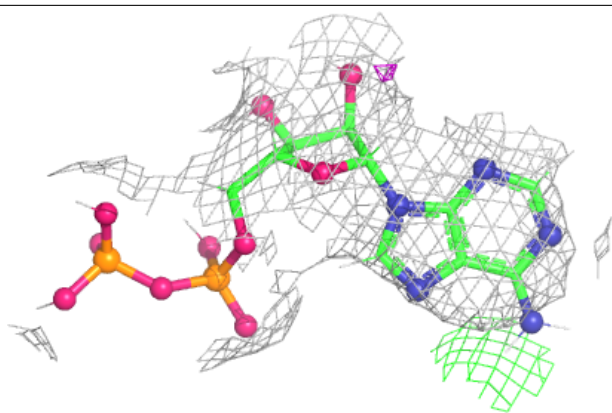
Electron density around PO4 D 1202:

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



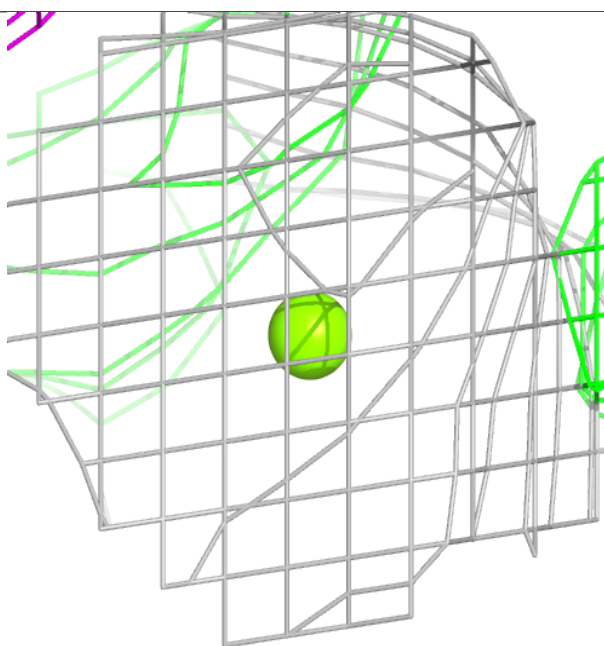
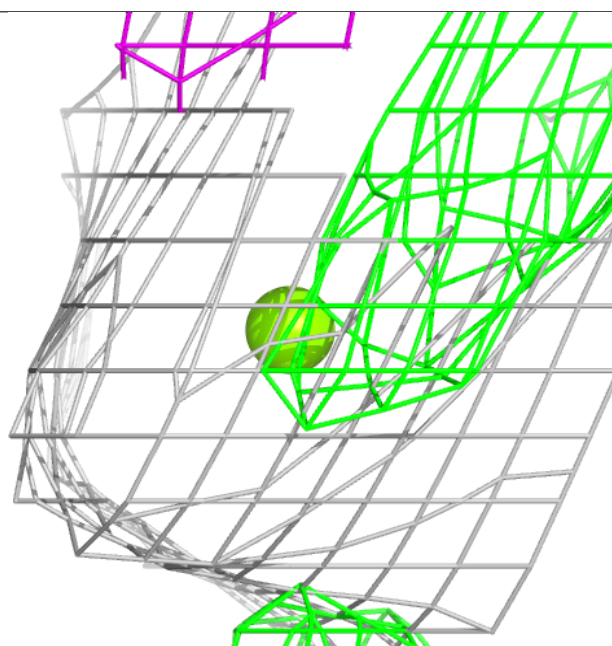
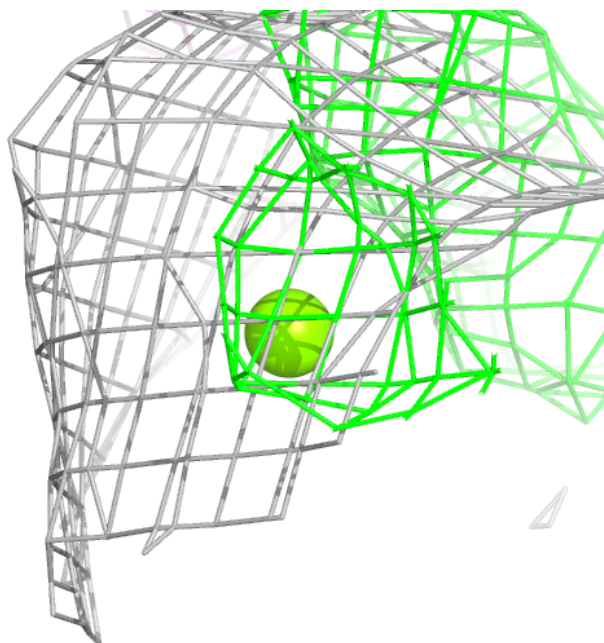
Electron density around ADP C 1205:

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



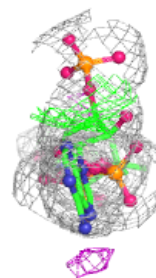
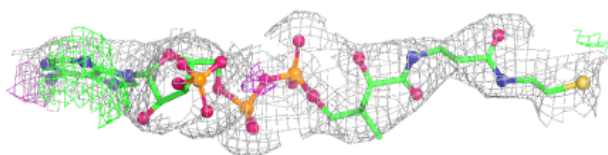
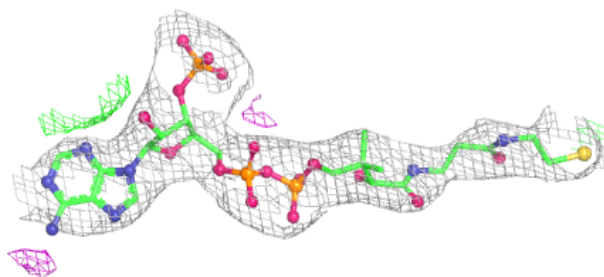
Electron density around MG C 1201:

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



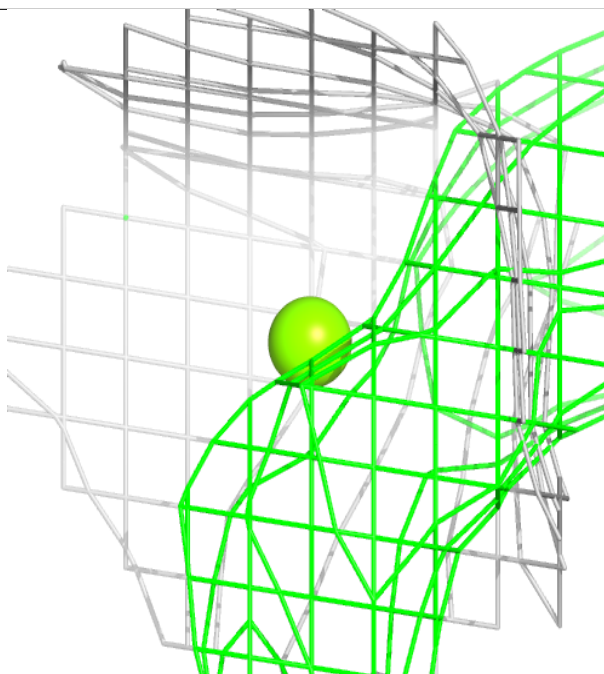
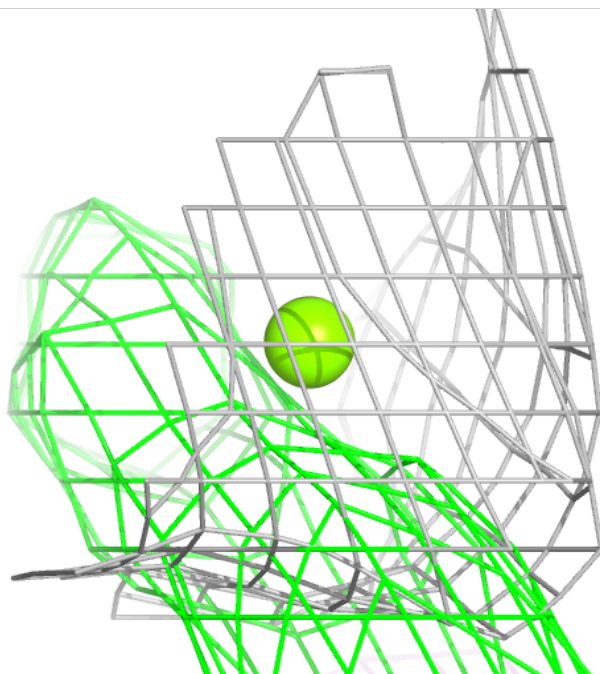
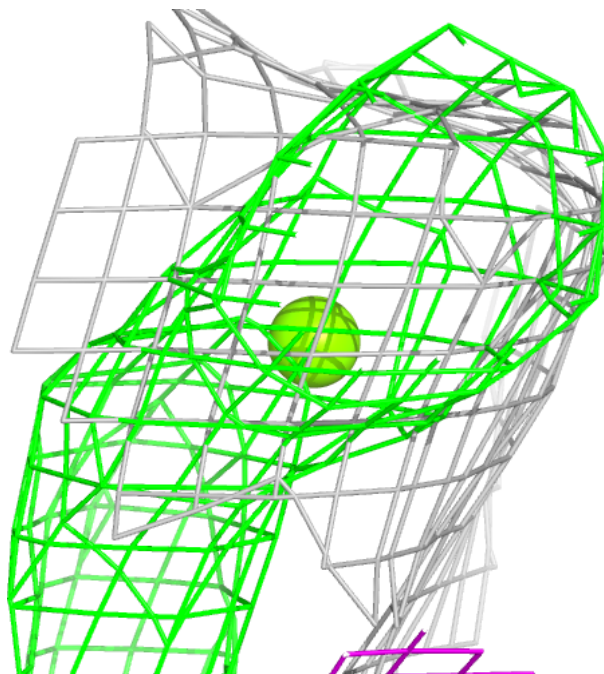
Electron density around COA F 1204:

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



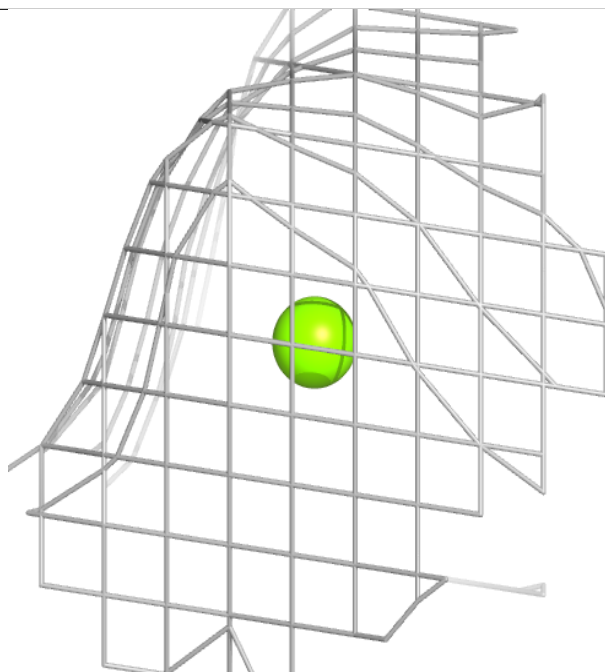
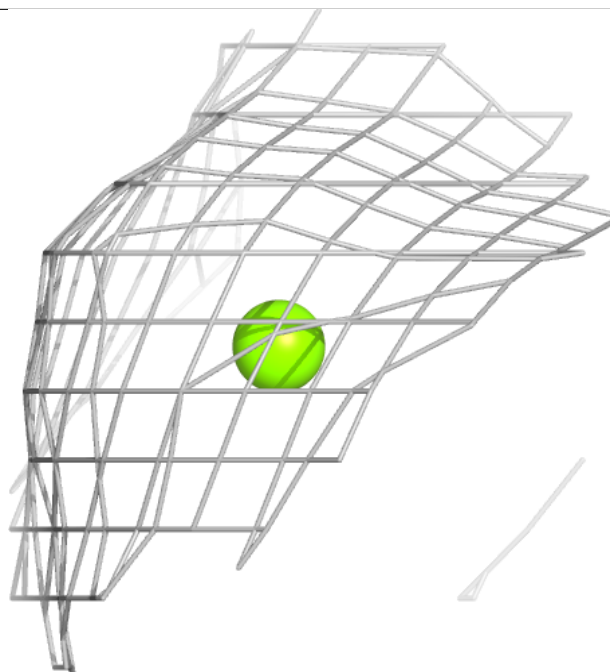
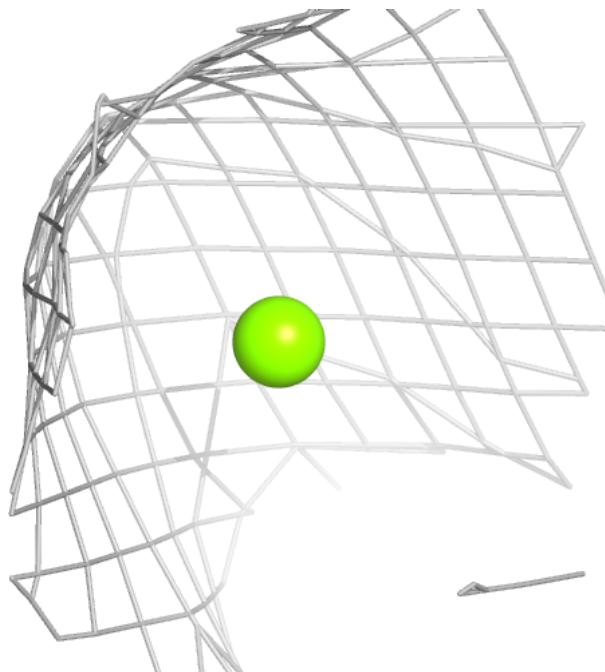
Electron density around MG E 1201:

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



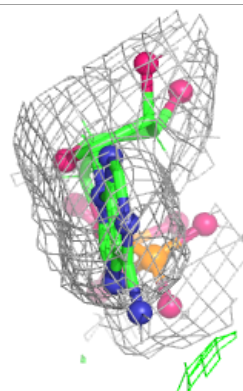
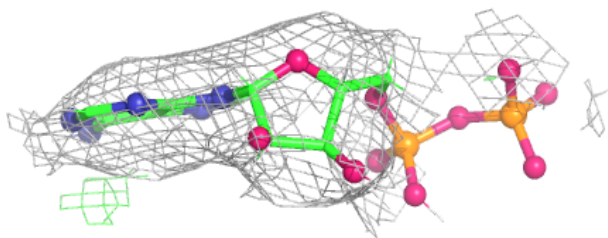
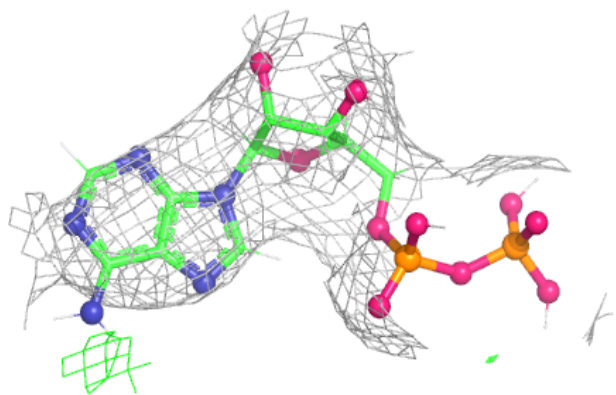
Electron density around MG A 1201:

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

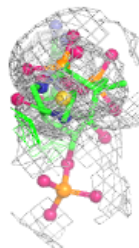
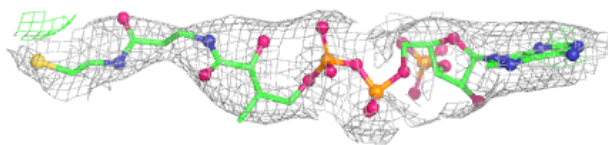
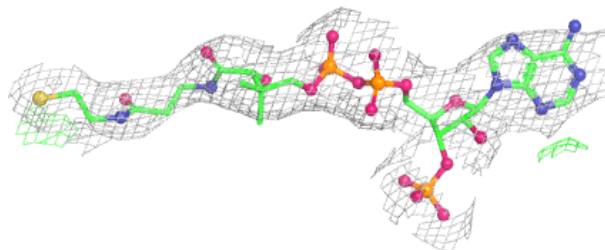


Electron density around ADP D 1205:

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

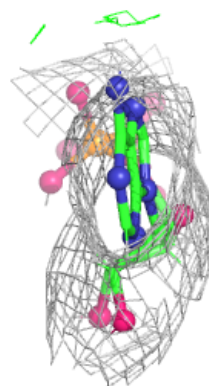
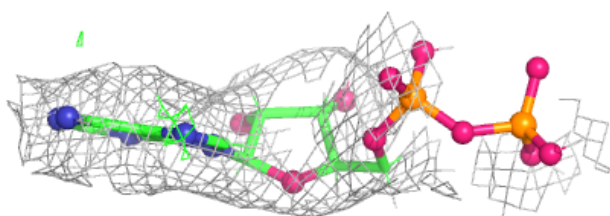
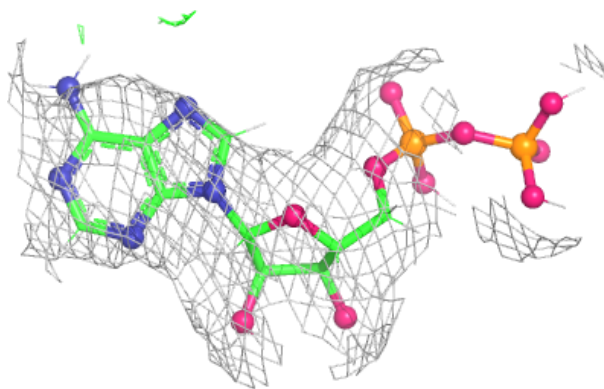
**Electron density around COA G 1204:**

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

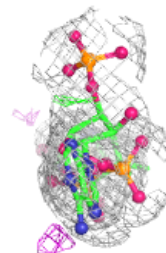
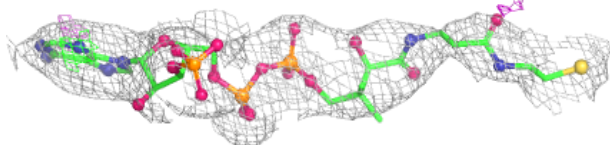
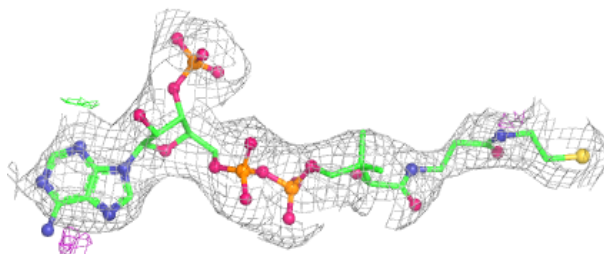


Electron density around ADP G 1205:

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

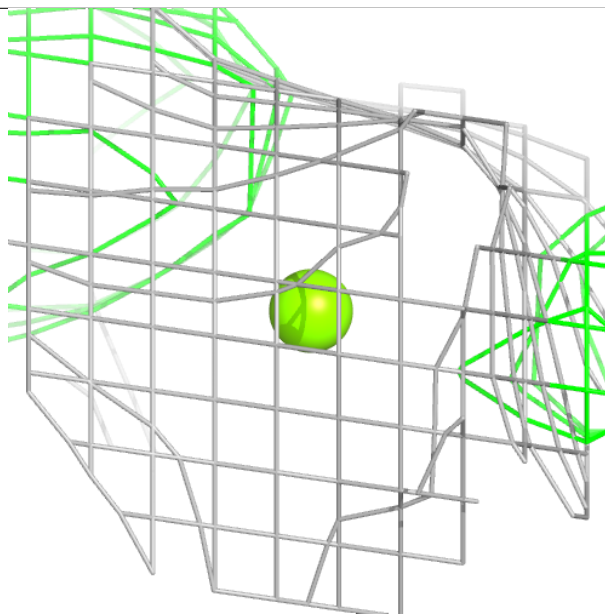
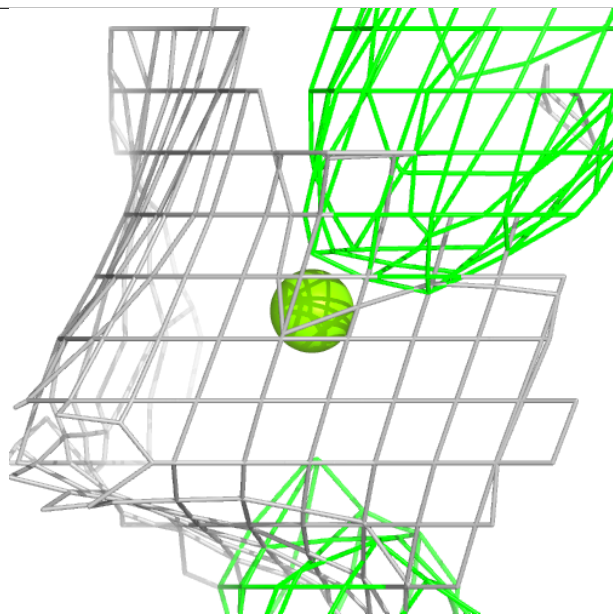
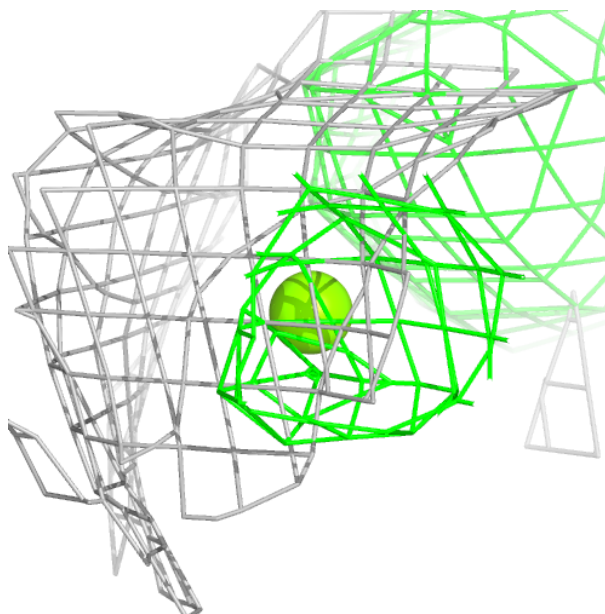
**Electron density around COA D 1204:**

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



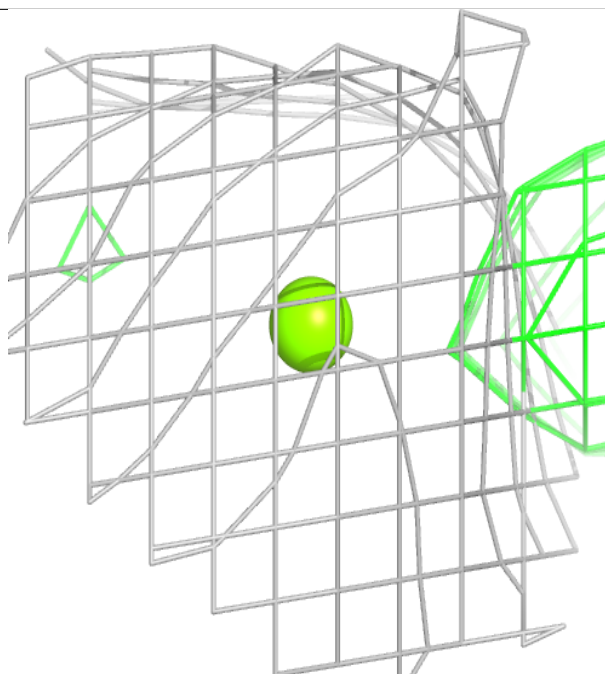
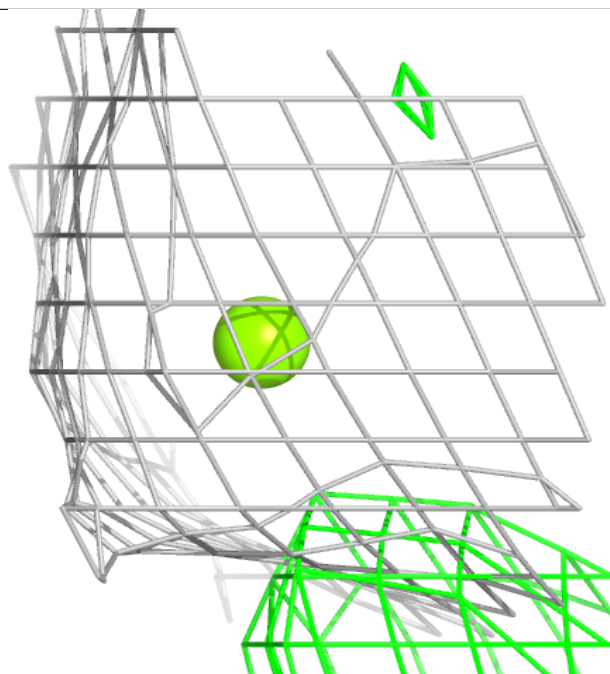
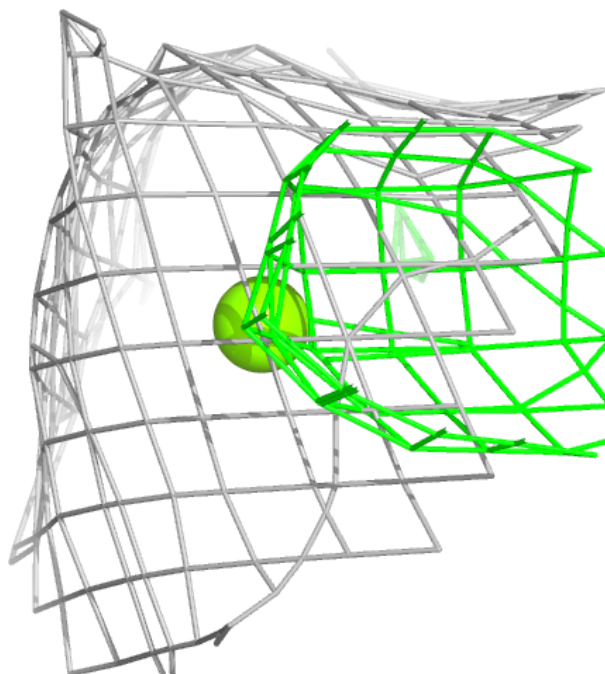
Electron density around MG F 1201:

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



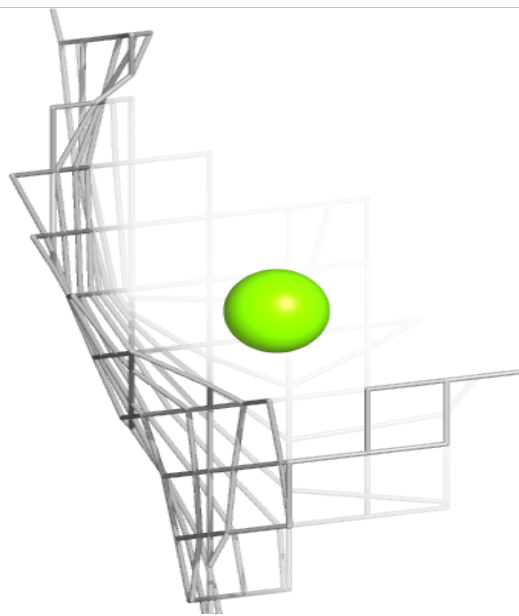
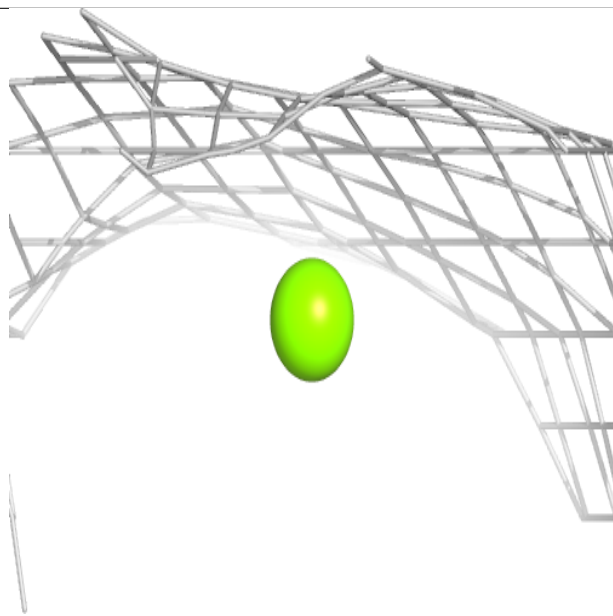
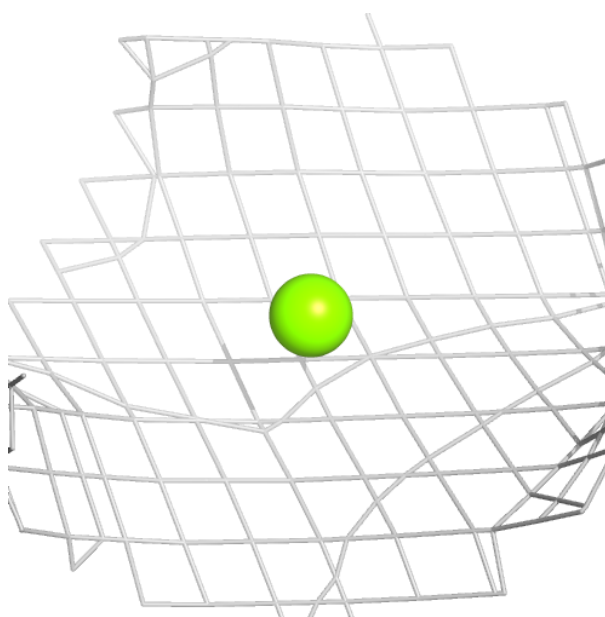
Electron density around MG B 1201:

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



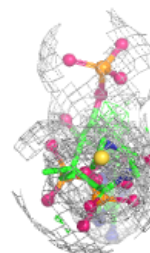
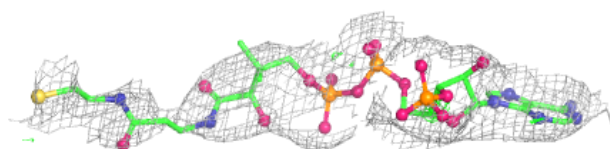
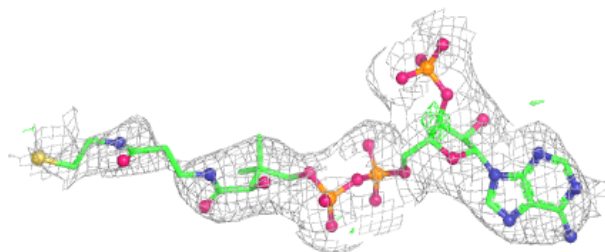
Electron density around MG H 1206:

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



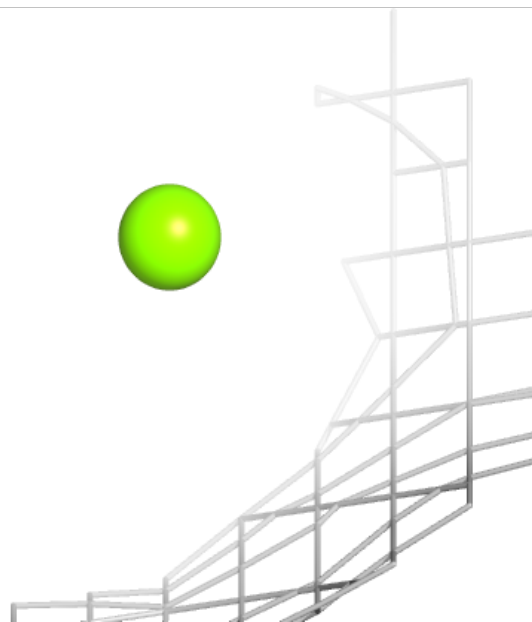
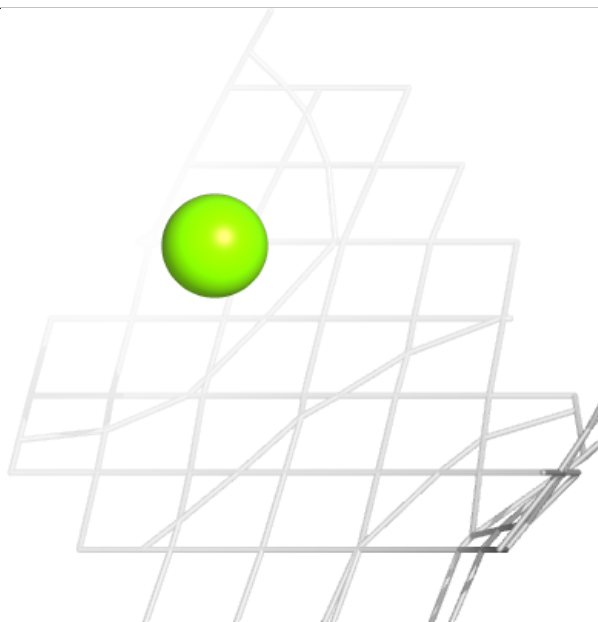
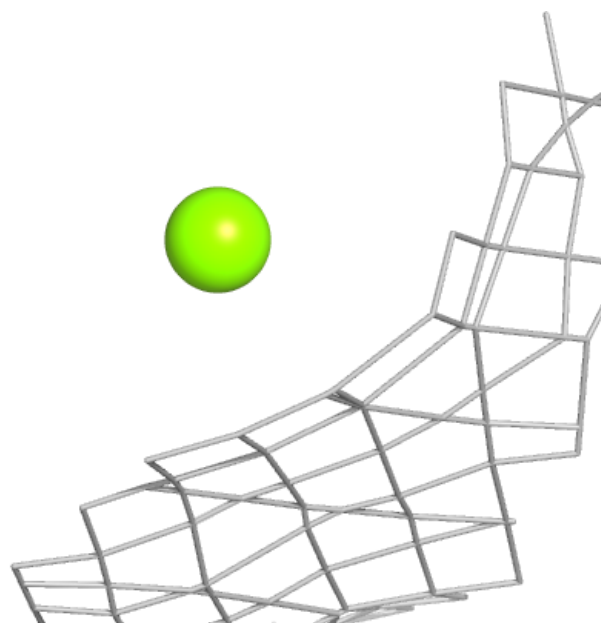
Electron density around COA C 1204:

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



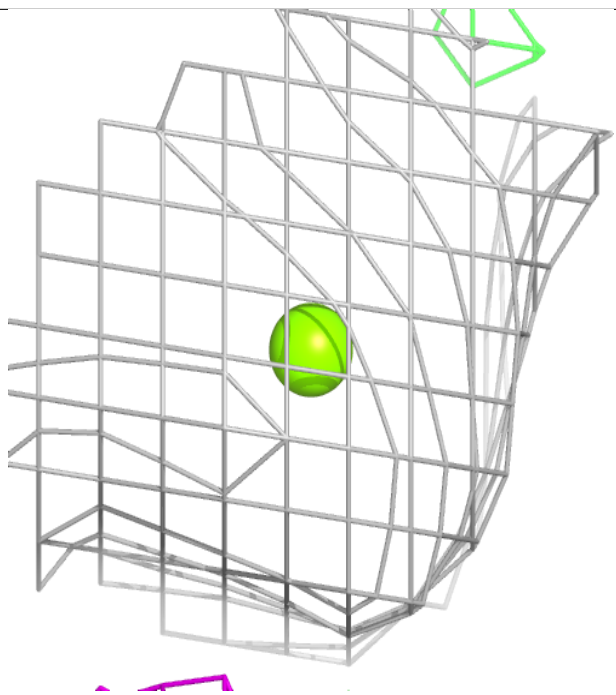
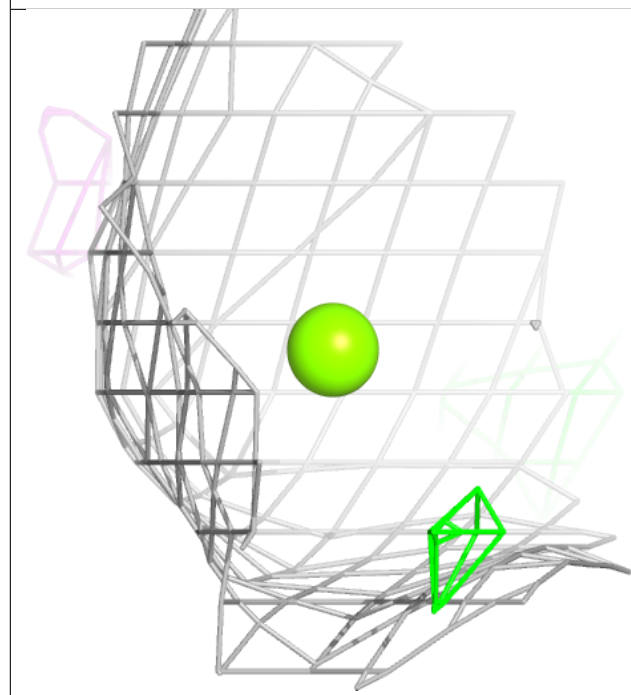
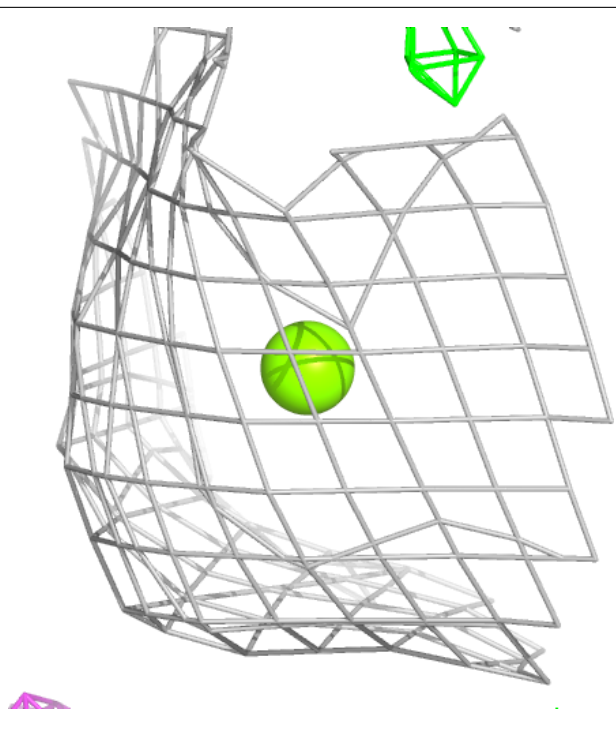
Electron density around MG C 1206:

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



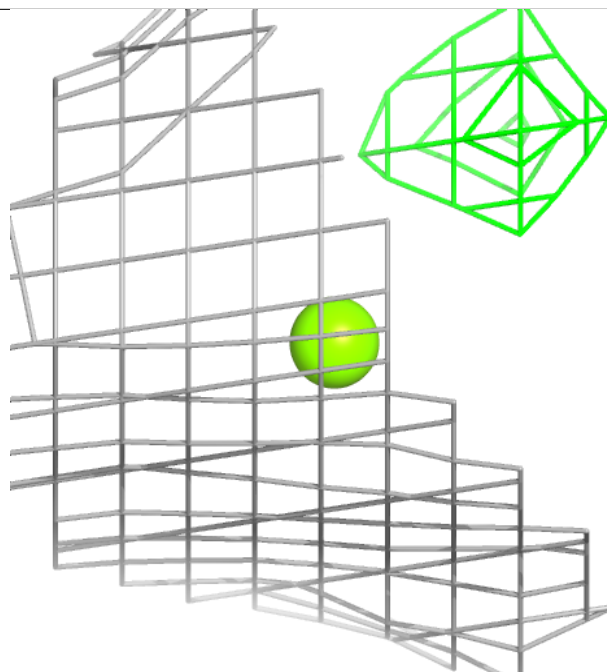
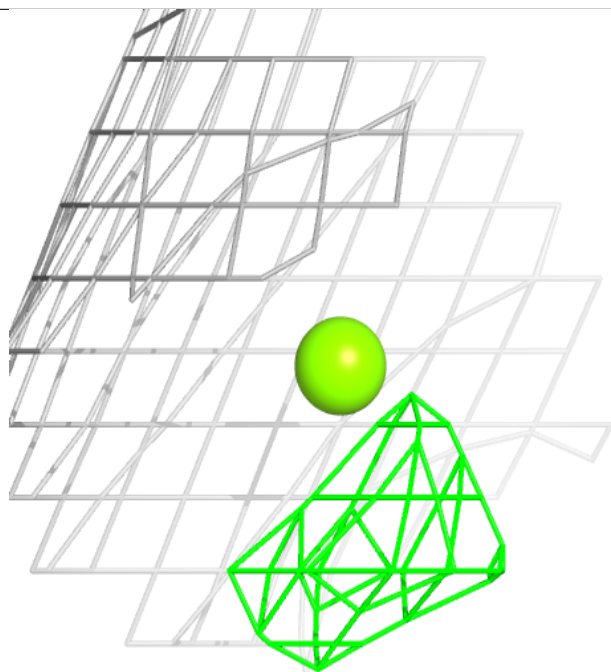
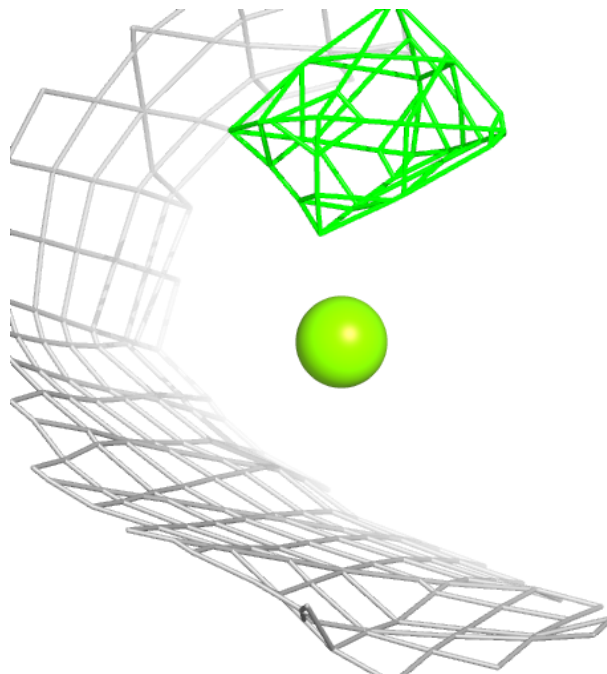
Electron density around MG D 1201:

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



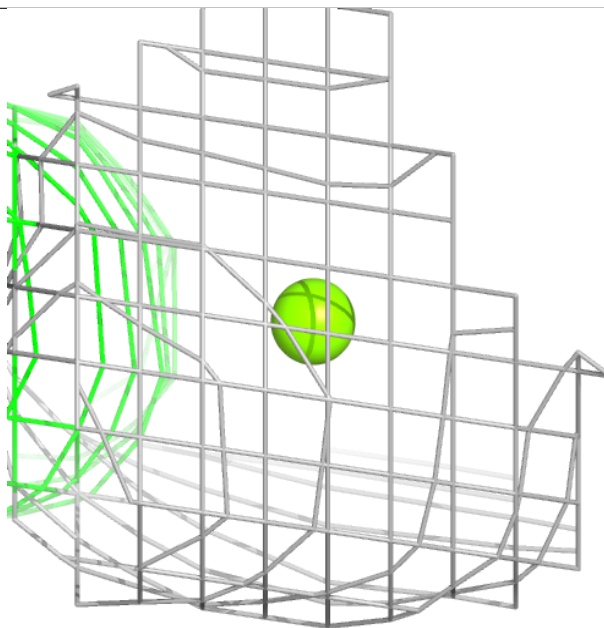
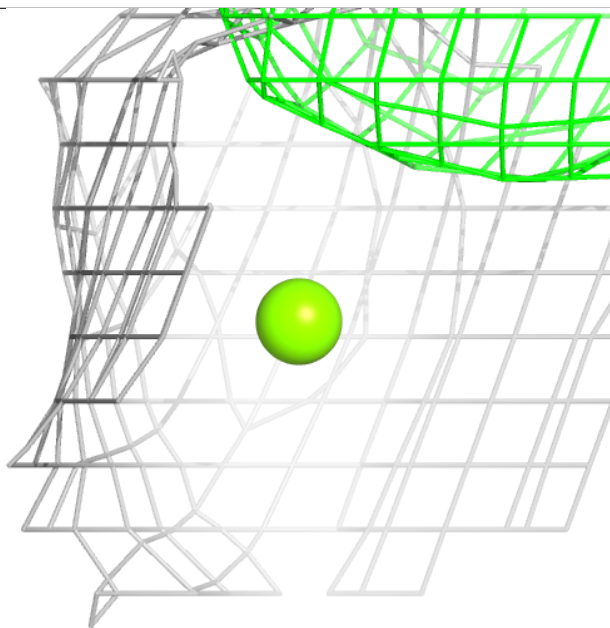
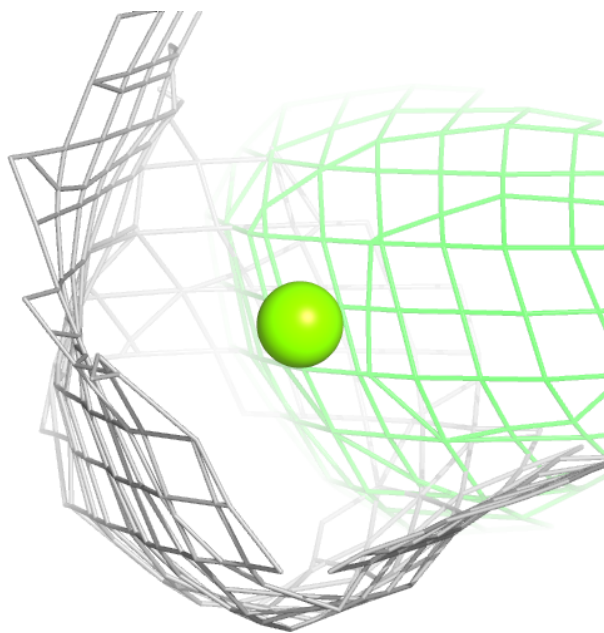
Electron density around MG F 1206:

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



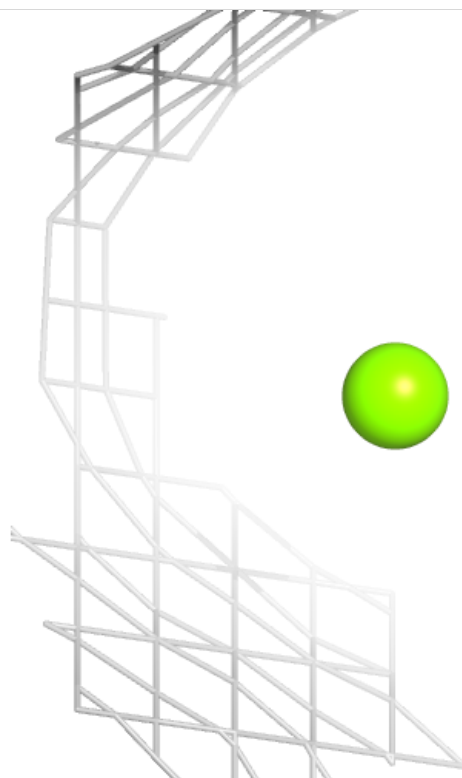
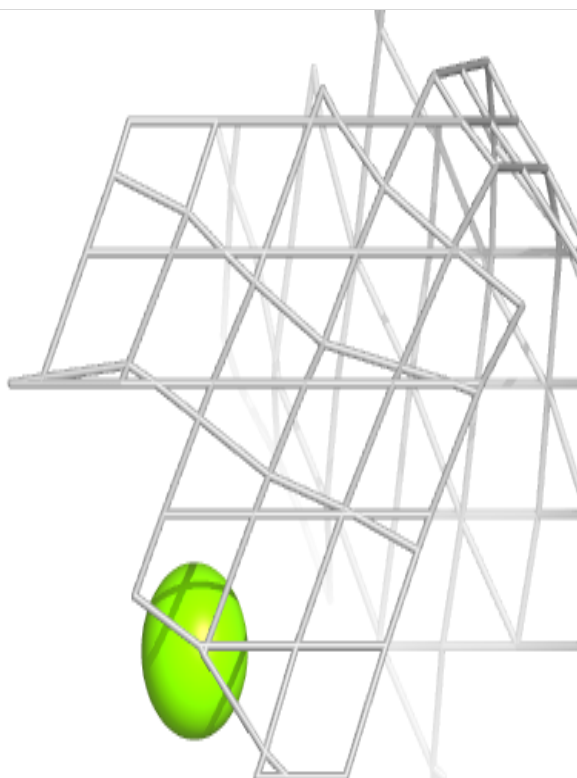
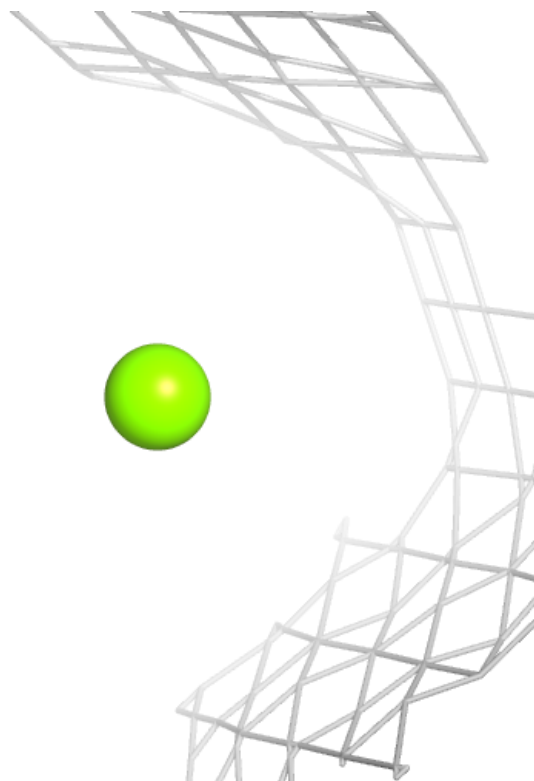
Electron density around MG G 1201:

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



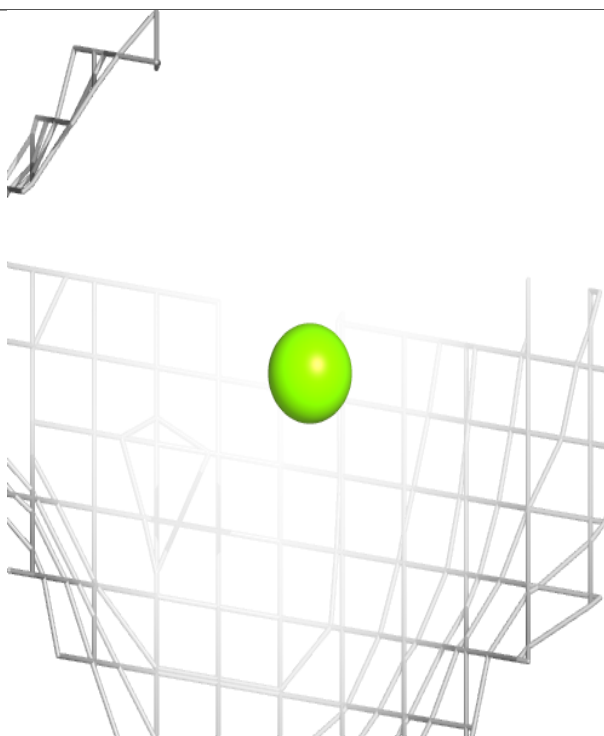
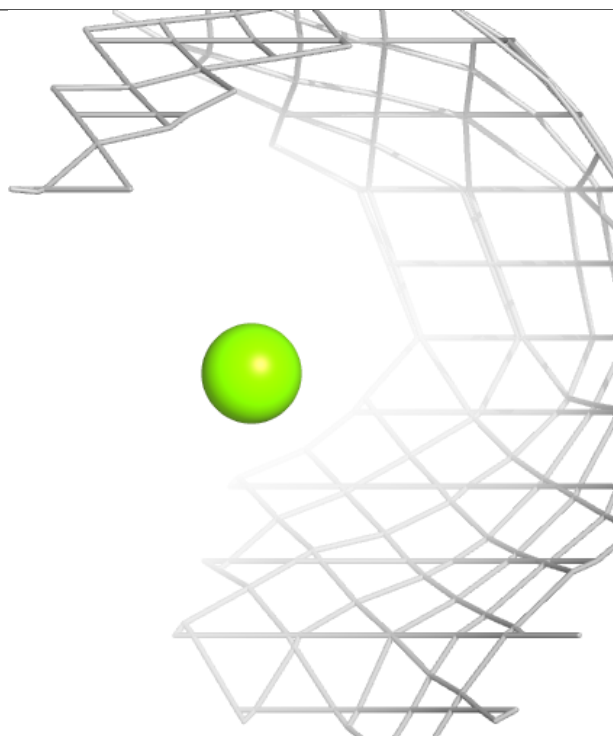
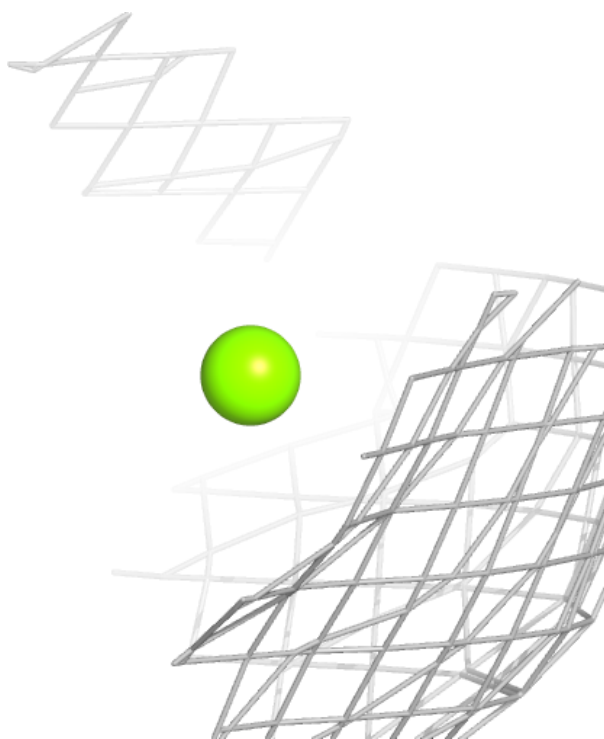
Electron density around MG G 1206:

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



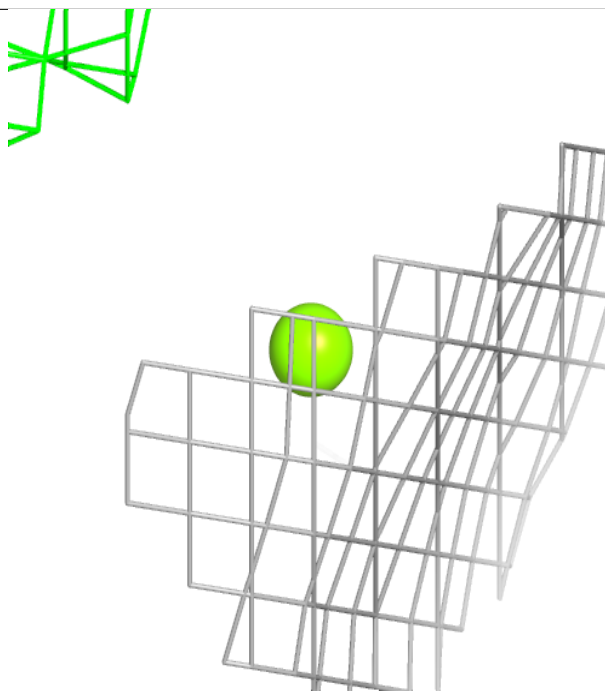
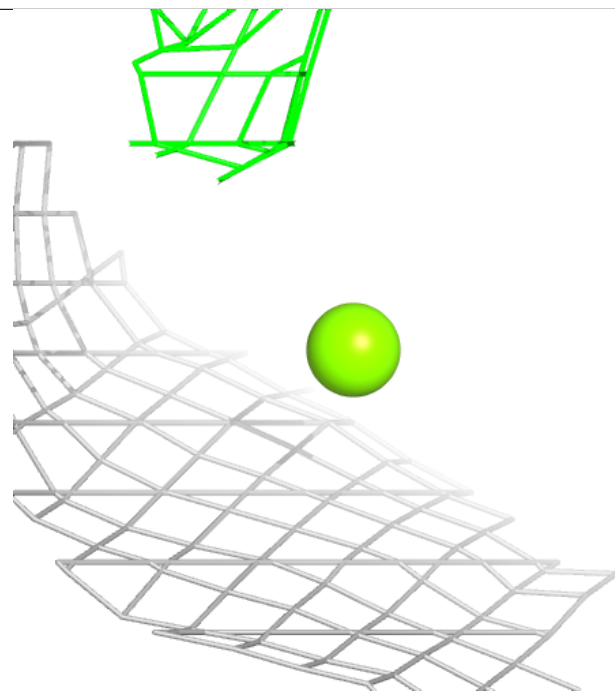
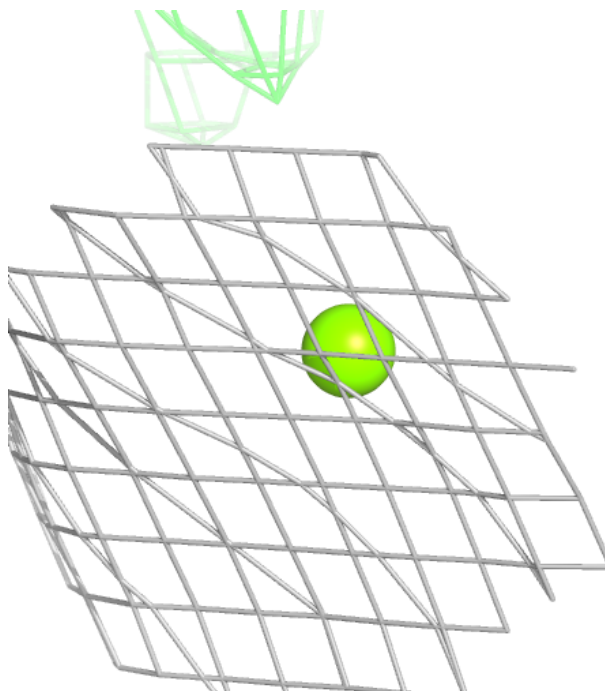
Electron density around MG A 1206:

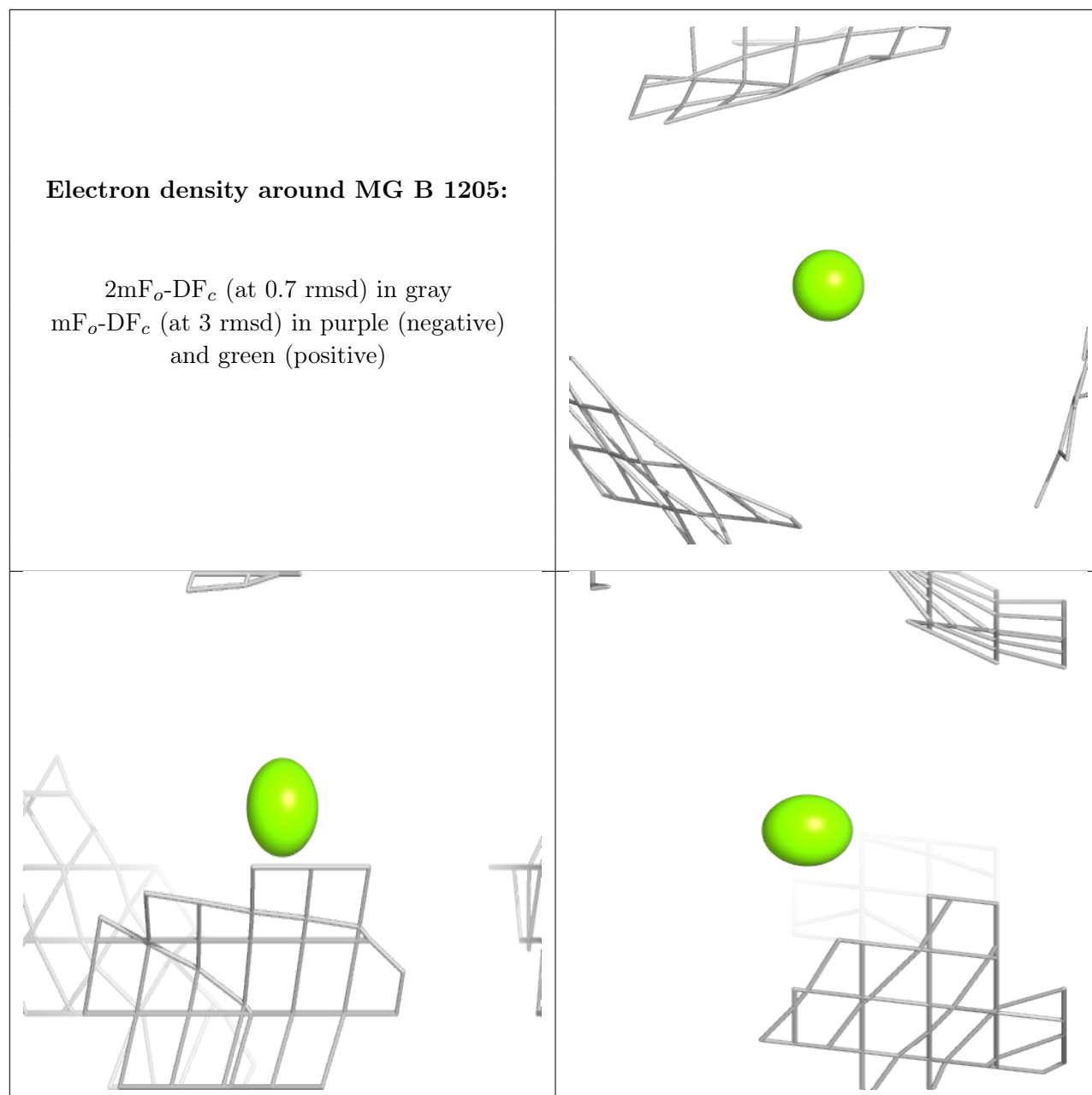
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around MG E 1206:

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





6.5 Other polymers ⓘ

There are no such residues in this entry.