



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 9, 2026 – 02:28 PM UTC

PDB ID : 6JZH / pdb_00006jzh
Title : Structure of human A2A adenosine receptor in complex with ZM241385 obtained from SFX experiments under atmospheric pressure
Authors : Nango, E.; Shimamura, T.; Nakane, T.; Yamanaka, Y.; Mori, C.; Kimura, K.T.; Fujiwara, T.; Tanaka, T.; Iwata, S.
Deposited on : 2019-05-02
Resolution : 2.25 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

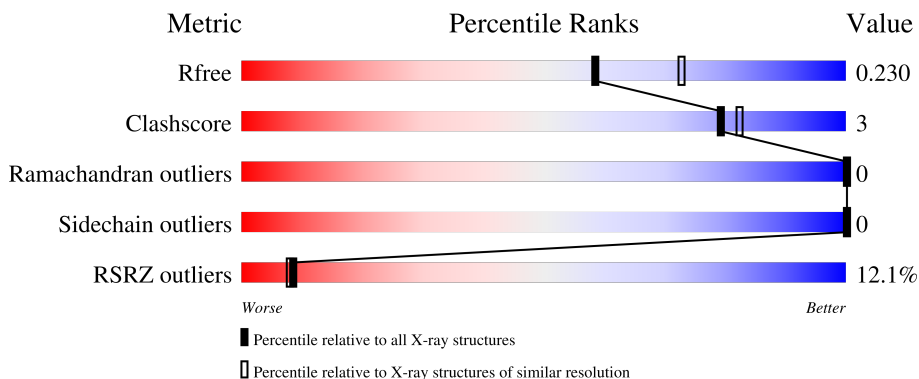
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.25 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	1898 (2.26-2.26)
Clashscore	190562	2005 (2.26-2.26)
Ramachandran outliers	187476	1965 (2.26-2.26)
Sidechain outliers	187428	1966 (2.26-2.26)
RSRZ outliers	180081	1898 (2.26-2.26)

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	447	11% 82% 5% 13%

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 6884 atoms, of which 3511 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 Adenosine receptor A2a,Soluble cytochrome b562,Adenosine receptor A2a.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	390	Total	C	H	N	O	S	0	2	0
			5877	1919	2949	475	512	22			

There are 40 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-24	MET	-	expression tag	UNP P29274
A	-23	LYS	-	expression tag	UNP P29274
A	-22	THR	-	expression tag	UNP P29274
A	-21	ILE	-	expression tag	UNP P29274
A	-20	ILE	-	expression tag	UNP P29274
A	-19	ALA	-	expression tag	UNP P29274
A	-18	LEU	-	expression tag	UNP P29274
A	-17	SER	-	expression tag	UNP P29274
A	-16	TYR	-	expression tag	UNP P29274
A	-15	ILE	-	expression tag	UNP P29274
A	-14	PHE	-	expression tag	UNP P29274
A	-13	CYS	-	expression tag	UNP P29274
A	-12	LEU	-	expression tag	UNP P29274
A	-11	VAL	-	expression tag	UNP P29274
A	-10	PHE	-	expression tag	UNP P29274
A	-9	ALA	-	expression tag	UNP P29274
A	-8	ASP	-	expression tag	UNP P29274
A	-7	TYR	-	expression tag	UNP P29274
A	-6	LYS	-	expression tag	UNP P29274
A	-5	ASP	-	expression tag	UNP P29274
A	-4	ASP	-	expression tag	UNP P29274
A	-3	ASP	-	expression tag	UNP P29274
A	-2	ASP	-	expression tag	UNP P29274
A	-1	GLY	-	expression tag	UNP P29274
A	0	ALA	-	expression tag	UNP P29274
A	1	PRO	-	expression tag	UNP P29274

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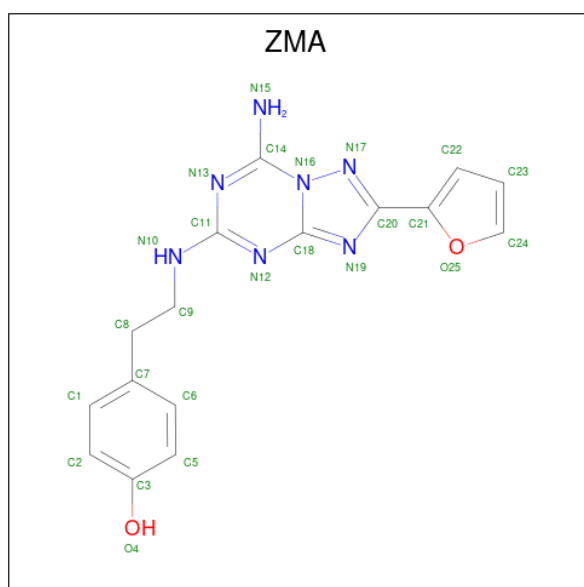
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Chain	Residue	Modelled	Actual	Comment	Reference
A	154	GLN	ASN	engineered mutation	UNP P29274
A	1007	TRP	MET	engineered mutation	UNP P0ABE7
A	1102	ILE	HIS	engineered mutation	UNP P0ABE7
A	1106	LEU	ARG	engineered mutation	UNP P0ABE7
A	317	HIS	-	expression tag	UNP P29274
A	318	HIS	-	expression tag	UNP P29274
A	319	HIS	-	expression tag	UNP P29274
A	320	HIS	-	expression tag	UNP P29274
A	321	HIS	-	expression tag	UNP P29274
A	322	HIS	-	expression tag	UNP P29274
A	323	HIS	-	expression tag	UNP P29274
A	324	HIS	-	expression tag	UNP P29274
A	325	HIS	-	expression tag	UNP P29274
A	326	HIS	-	expression tag	UNP P29274

- Molecule 2 is SODIUM ION (CCD ID: NA) (formula: Na).

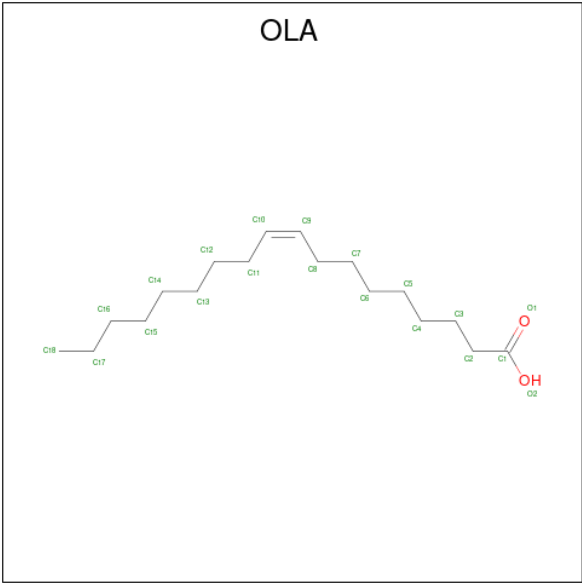
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total Na 1 1	0	0

- Molecule 3 is 4-{2-[(7-amino-2-furan-2-yl)[1,2,4]triazolo[1,5-a][1,3,5]triazin-5-yl)amino]ethyl} phenol (CCD ID: ZMA) (formula: C₁₆H₁₅N₇O₂).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	H	N	O	0	0
			40	16	15	7	2		

- Molecule 4 is OLEIC ACID (CCD ID: OLA) (formula: C₁₈H₃₄O₂).



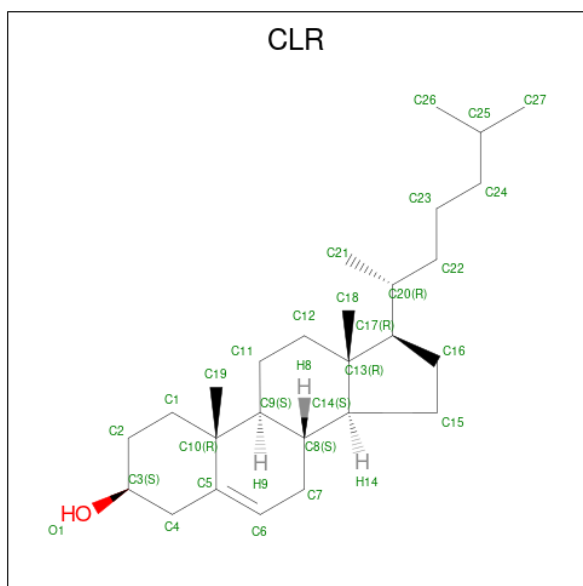
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	C	H	O	0	0
			34	12	20	2		
4	A	1	Total	C	H	O	0	0
			21	7	12	2		
4	A	1	Total	C	H		0	0
			23	8	15			
4	A	1	Total	C	H	O	0	0
			31	11	18	2		
4	A	1	Total	C	H	O	0	0
			43	15	26	2		
4	A	1	Total	C	H	O	0	0
			43	15	26	2		
4	A	1	Total	C	H	O	0	0
			43	15	26	2		
4	A	1	Total	C	H	O	0	0
			37	13	22	2		
4	A	1	Total	C	H	O	0	0
			43	15	26	2		
4	A	1	Total	C	H	O	0	0
			43	15	26	2		
4	A	1	Total	C	H	O	0	0
			43	15	26	2		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total C H O 46 16 28 2	0	0
4	A	1	Total C H O 34 12 20 2	0	0
4	A	1	Total C H 21 7 14	0	0
4	A	1	Total C H O 18 6 10 2	0	0
4	A	1	Total C H O 28 10 16 2	0	0
4	A	1	Total C H 46 16 30	0	0
4	A	1	Total C H O 53 18 33 2	0	0
4	A	1	Total C H O 28 11 15 2	0	0

- Molecule 5 is CHOLESTEROL (CCD ID: CLR) (formula: $C_{27}H_{46}O$).

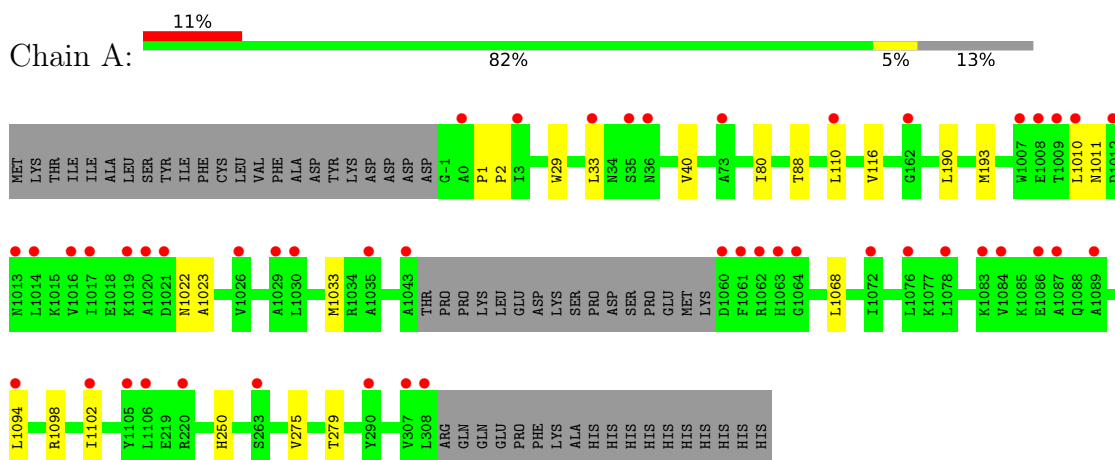


Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total C H O 74 27 46 1	0	0
5	A	1	Total C H O 74 27 46 1	0	0
5	A	1	Total C H O 74 27 46 1	0	0

- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	66	Total 66	O 66	0	0

- Molecule 1: Adenosine receptor A2a, Soluble cytochrome b562, Adenosine receptor A2a



4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	40.17Å 179.59Å 142.08Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	33.36 – 2.25 33.36 – 2.25	Depositor EDS
% Data completeness (in resolution range)	99.9 (33.36-2.25) 99.9 (33.36-2.25)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.08 (at 1.88Å)	Xtriage
Refinement program	PHENIX (1.14_3260: ???)	Depositor
R, R_{free}	0.183 , 0.218 0.192 , 0.230	Depositor DCC
R_{free} test set	1916 reflections (4.55%)	wwPDB-VP
Wilson B-factor (Å ²)	40.4	Xtriage
Anisotropy	0.095	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.41 , 74.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	6884	wwPDB-VP
Average B, all atoms (Å ²)	68.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.34% 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: NA, CLR, ZMA, OLA

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	0/2997	0.33	0/4094

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

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	2928	2949	2899	15	0
2	A	1	0	0	0	0
3	A	25	15	14	1	0
4	A	269	409	372	0	0
5	A	84	138	138	5	0
6	A	66	0	0	1	0
All	All	3373	3511	3423	18	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 3.

The worst 5 of 18 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:275:VAL:O	1:A:279:THR:HG23	1.93	0.69
1:A:1022:ASN:OD1	1:A:1023:ALA:N	2.27	0.67
1:A:250:HIS:CE1	3:A:2002:ZMA:H24	2.41	0.55
1:A:190:LEU:HD23	1:A:193:MET:CE	2.38	0.53
1:A:1068:LEU:HD12	1:A:1094:LEU:HD22	1.91	0.52

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	388/447 (87%)	382 (98%)	6 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	292/374 (78%)	292 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	207	GLN
1	A	1011	ASN
1	A	1013	ASN
1	A	297	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](#)

Of 24 ligands modelled in this entry, 1 is monoatomic - leaving 23 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
5	CLR	A	2022	-	31,31,31	0.77	1 (3%)	48,48,48	1.25	5 (10%)
4	OLA	A	2008	-	16,16,19	0.41	0	16,16,19	1.00	0
4	OLA	A	2011	-	16,16,19	0.43	0	16,16,19	1.02	0
4	OLA	A	2012	-	16,16,19	0.42	0	16,16,19	1.00	0
4	OLA	A	2009	-	16,16,19	0.43	0	16,16,19	0.94	0
4	OLA	A	2003	-	13,13,19	0.46	0	13,13,19	1.16	0
4	OLA	A	2005	-	7,7,19	0.31	0	6,6,19	0.73	0
4	OLA	A	2020	-	19,19,19	0.41	0	19,19,19	1.02	1 (5%)
4	OLA	A	2007	-	16,16,19	0.43	0	16,16,19	0.98	0
4	OLA	A	2013	-	16,16,19	1.24	2 (12%)	16,16,19	1.02	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	OLA	A	2017	-	7,7,19	0.55	0	7,7,19	1.25	0
4	OLA	A	2016	-	6,6,19	0.36	0	5,5,19	0.69	0
4	OLA	A	2019	-	15,15,19	0.34	0	14,14,19	0.66	0
4	OLA	A	2006	-	12,12,19	0.46	0	12,12,19	1.14	0
4	OLA	A	2004	-	8,8,19	0.52	0	8,8,19	1.25	1 (12%)
4	OLA	A	2021	-	12,12,19	1.43	2 (16%)	12,12,19	1.18	1 (8%)
3	ZMA	A	2002	-	26,28,28	0.79	0	30,39,39	2.20	8 (26%)
4	OLA	A	2018	-	11,11,19	0.48	0	11,11,19	1.10	0
4	OLA	A	2015	-	13,13,19	0.46	0	13,13,19	1.08	0
5	CLR	A	2024	-	31,31,31	0.79	1 (3%)	48,48,48	1.17	4 (8%)
5	CLR	A	2023	-	31,31,31	0.79	1 (3%)	48,48,48	1.23	5 (10%)
4	OLA	A	2010	-	14,14,19	0.42	0	14,14,19	1.07	1 (7%)
4	OLA	A	2014	-	17,17,19	0.41	0	17,17,19	0.96	0

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
5	CLR	A	2022	-	-	3/10/68/68	0/4/4/4
4	OLA	A	2008	-	-	9/14/14/17	-
4	OLA	A	2011	-	-	5/14/14/17	-
4	OLA	A	2012	-	-	7/14/14/17	-
4	OLA	A	2009	-	-	4/14/14/17	-
4	OLA	A	2003	-	-	3/11/11/17	-
4	OLA	A	2005	-	-	2/5/5/17	-
4	OLA	A	2020	-	-	12/17/17/17	-
4	OLA	A	2007	-	-	5/14/14/17	-
4	OLA	A	2013	-	-	8/14/14/17	-
4	OLA	A	2017	-	-	3/5/5/17	-
4	OLA	A	2016	-	-	1/4/4/17	-
4	OLA	A	2019	-	-	8/13/13/17	-
4	OLA	A	2006	-	-	2/10/10/17	-
4	OLA	A	2004	-	-	3/6/6/17	-
4	OLA	A	2021	-	-	4/10/10/17	-
3	ZMA	A	2002	-	-	0/10/10/10	0/4/4/4
4	OLA	A	2018	-	-	3/9/9/17	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	OLA	A	2015	-	-	7/11/11/17	-
5	CLR	A	2024	-	-	1/10/68/68	0/4/4/4
5	CLR	A	2023	-	-	1/10/68/68	0/4/4/4
4	OLA	A	2010	-	-	3/12/12/17	-
4	OLA	A	2014	-	-	5/15/15/17	-

The worst 5 of 7 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	2021	OLA	O1-C1	3.90	1.34	1.22
4	A	2013	OLA	O1-C1	3.88	1.34	1.22
4	A	2021	OLA	O2-C1	-2.91	1.21	1.30
4	A	2013	OLA	O2-C1	-2.86	1.21	1.30
5	A	2023	CLR	C10-C9	-2.39	1.52	1.56

The worst 5 of 26 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	2002	ZMA	C18-N16-N17	-5.17	106.56	110.41
3	A	2002	ZMA	C20-N17-N16	5.15	106.72	101.39
3	A	2002	ZMA	N17-C20-N19	-4.67	110.10	115.38
3	A	2002	ZMA	N16-C18-N12	-4.22	118.94	122.61
5	A	2022	CLR	C21-C20-C17	-4.09	106.74	112.88

There are no chirality outliers.

5 of 99 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	2009	OLA	C11-C10-C9-C8
4	A	2019	OLA	C11-C10-C9-C8
5	A	2022	CLR	C22-C23-C24-C25
4	A	2018	OLA	C7-C8-C9-C10
4	A	2016	OLA	C4-C5-C6-C7

There are no ring outliers.

4 monomers are involved in 6 short contacts:

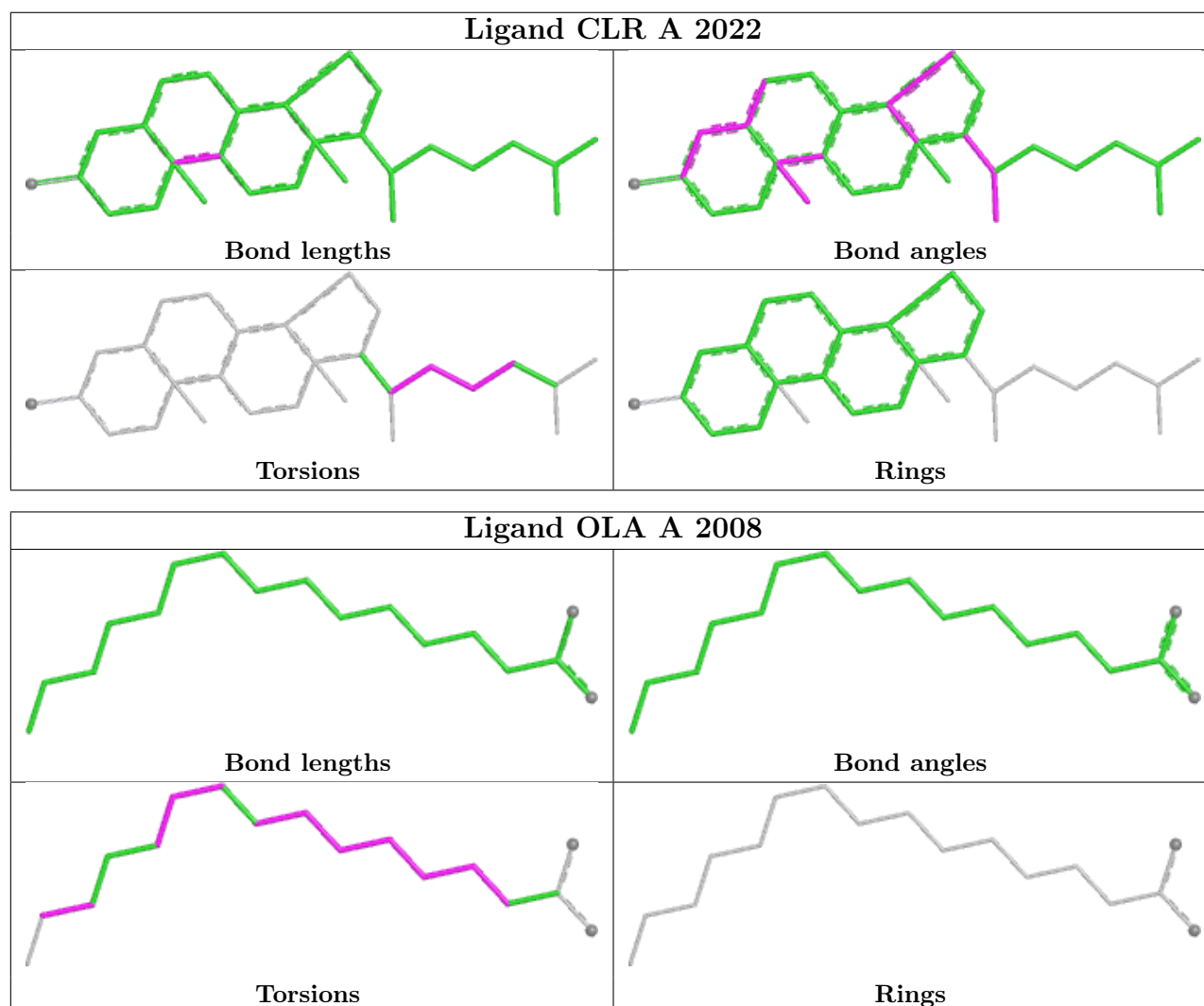
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5	A	2022	CLR	3	0
3	A	2002	ZMA	1	0

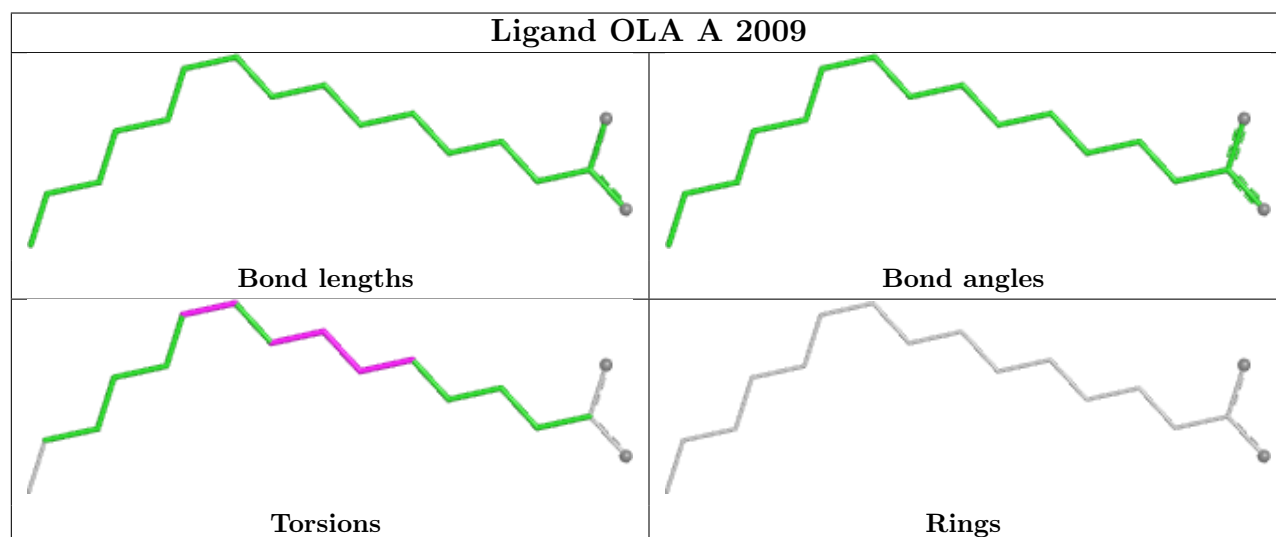
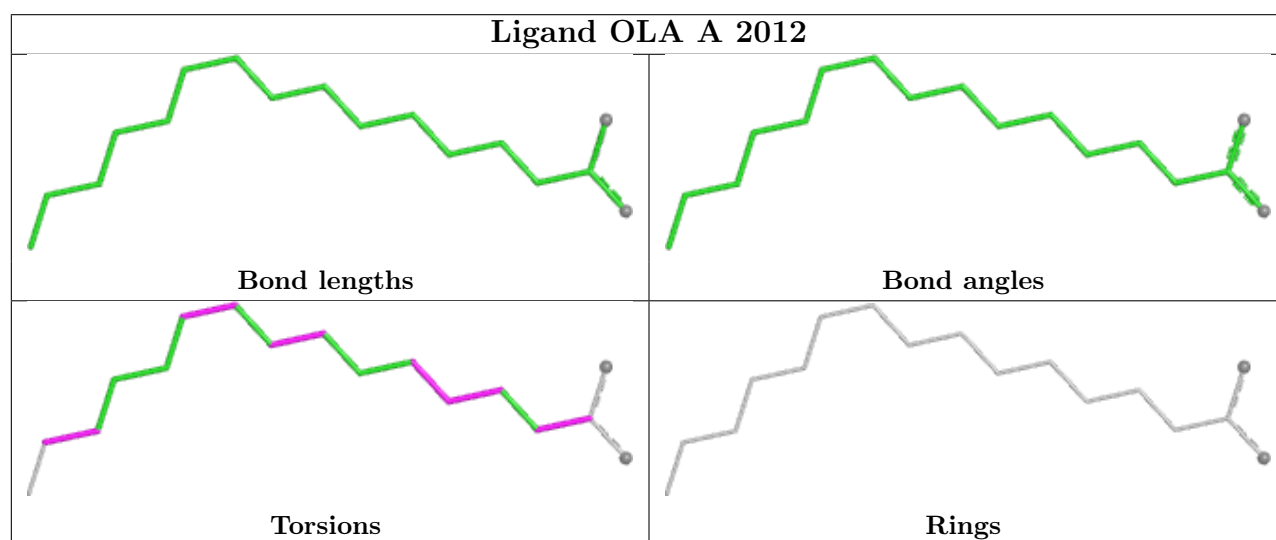
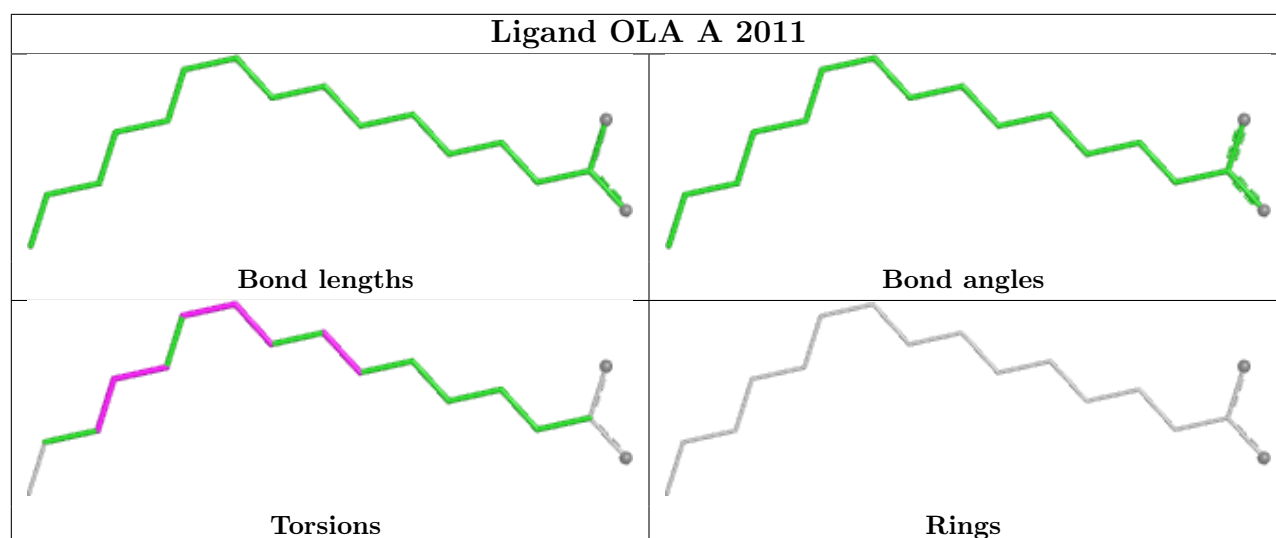
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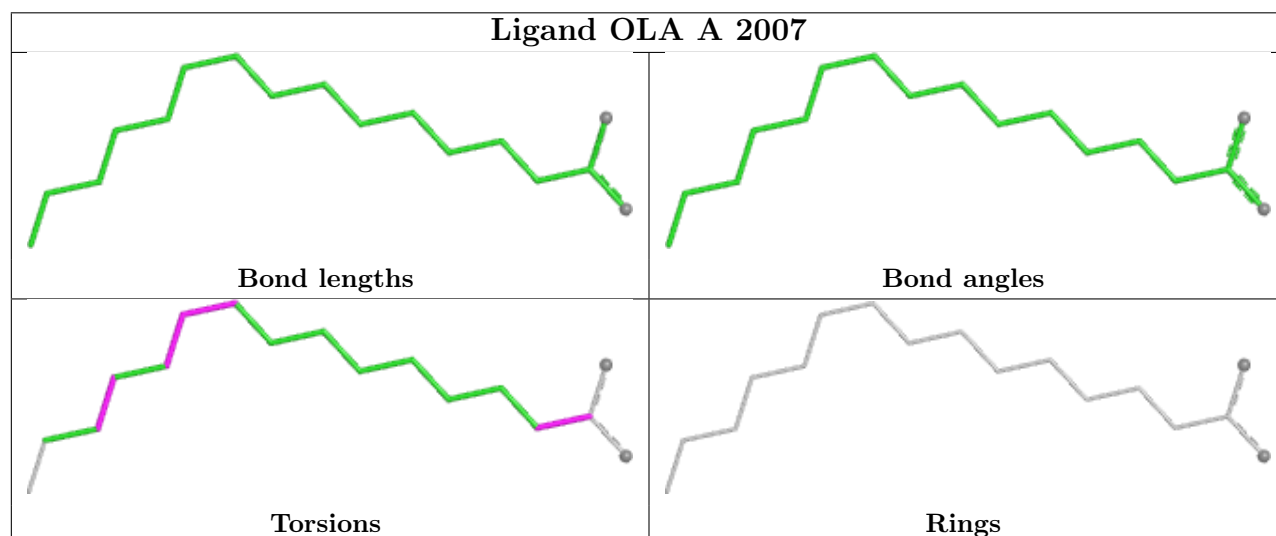
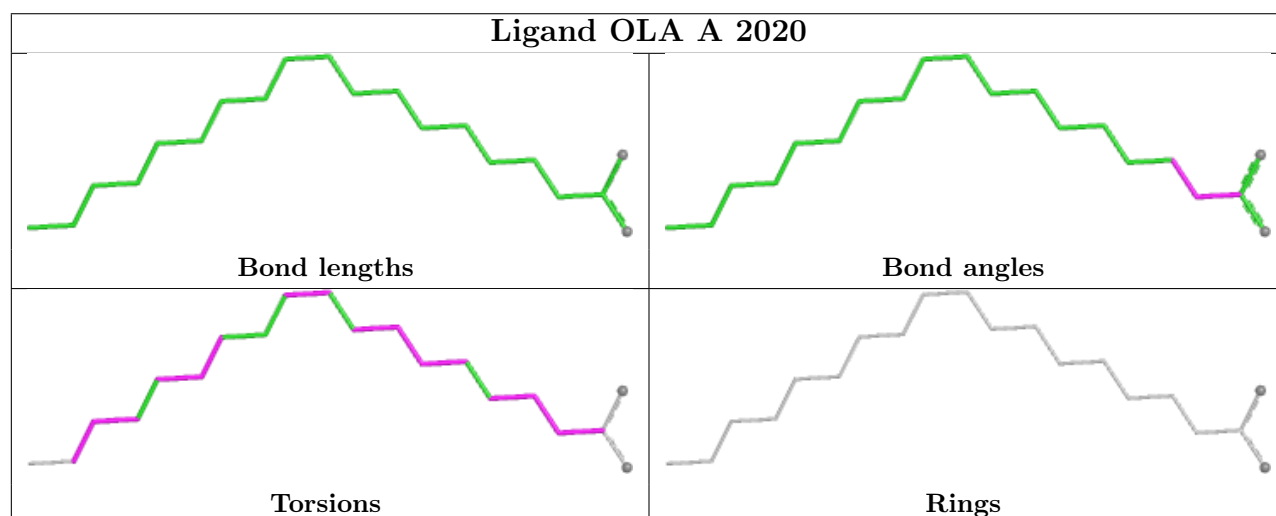
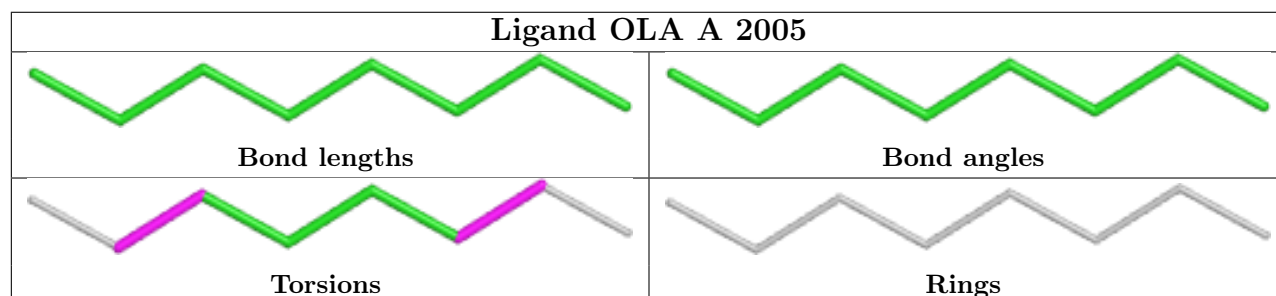
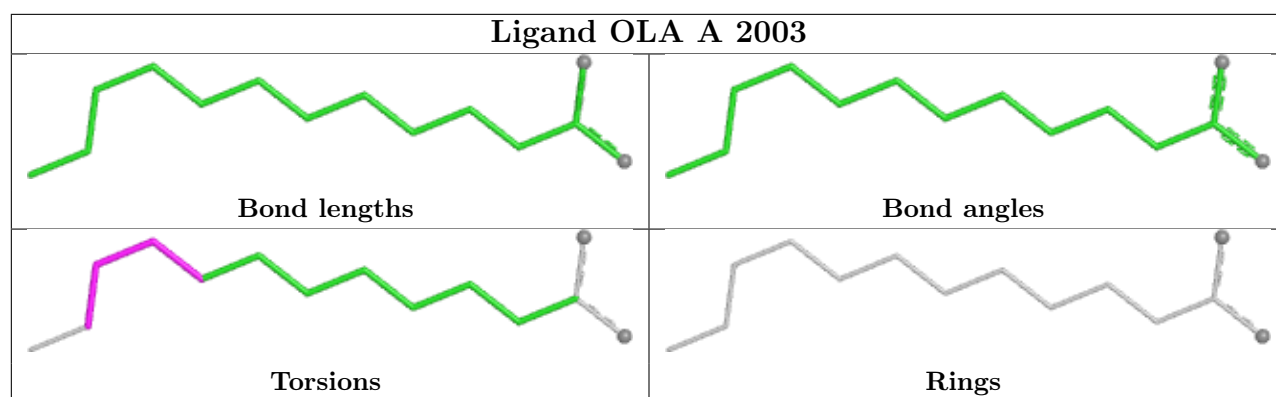
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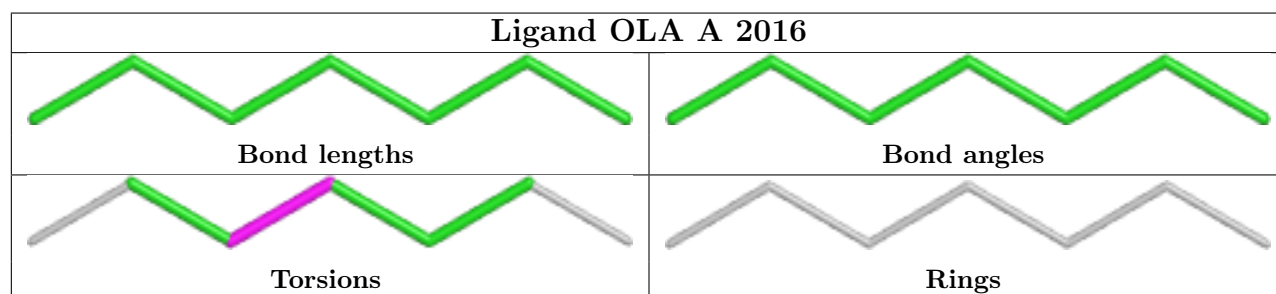
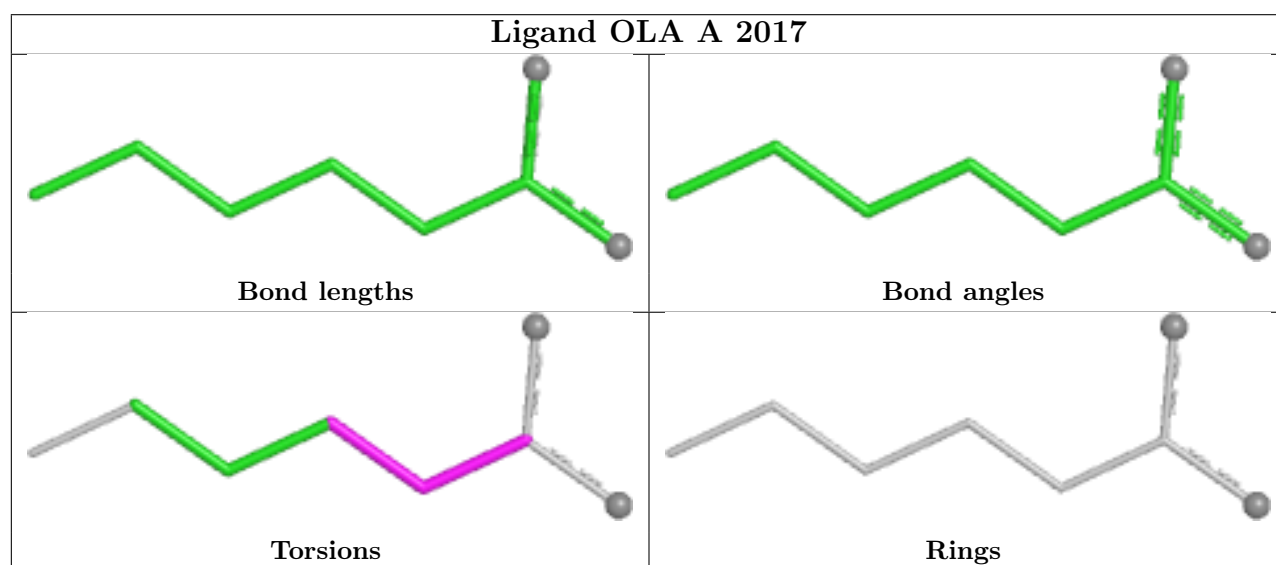
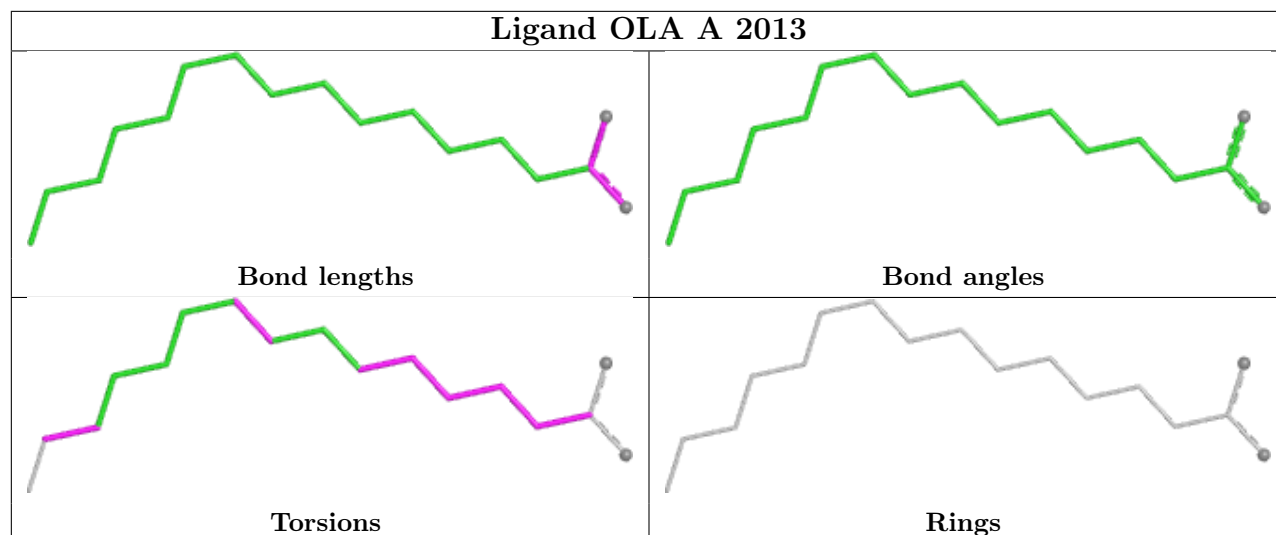
Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	2024	CLR	1	0
5	A	2023	CLR	1	0

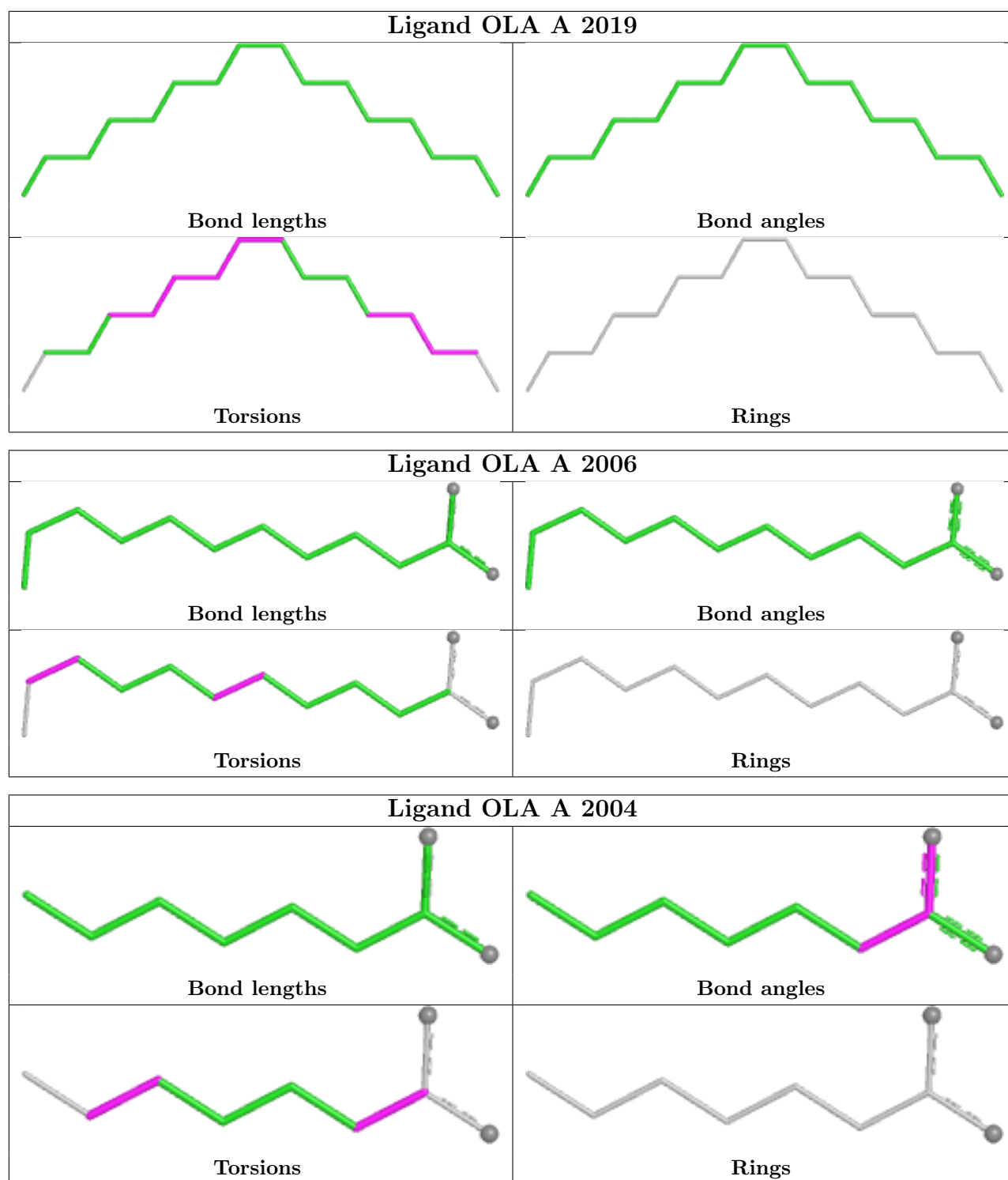
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

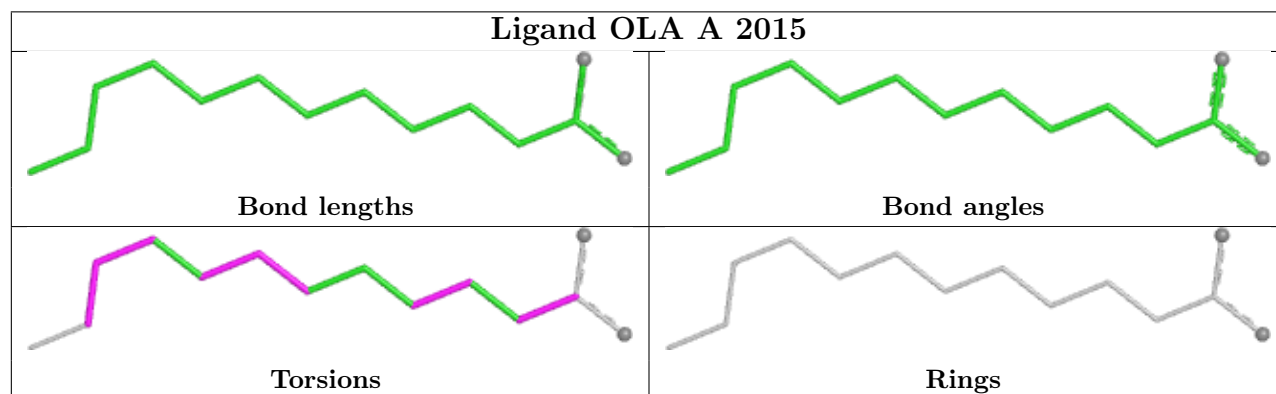
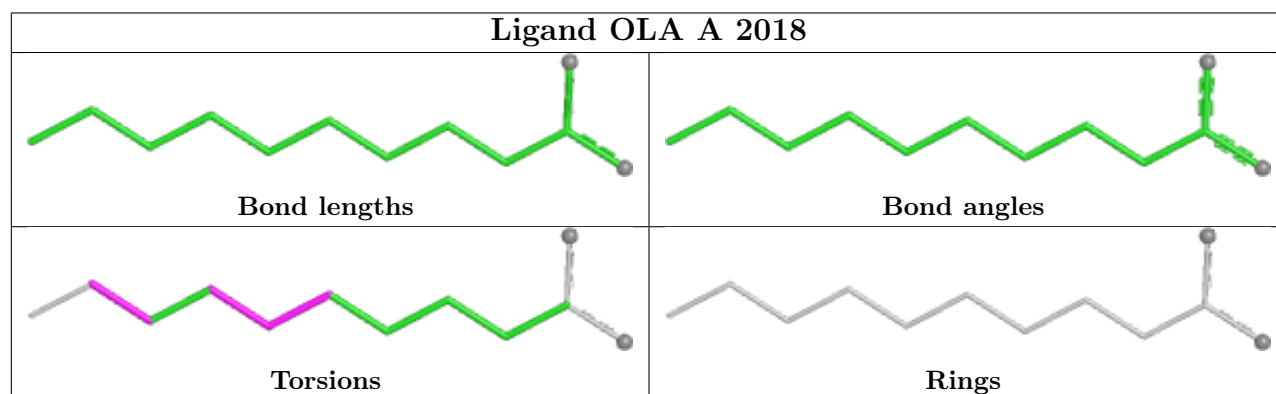
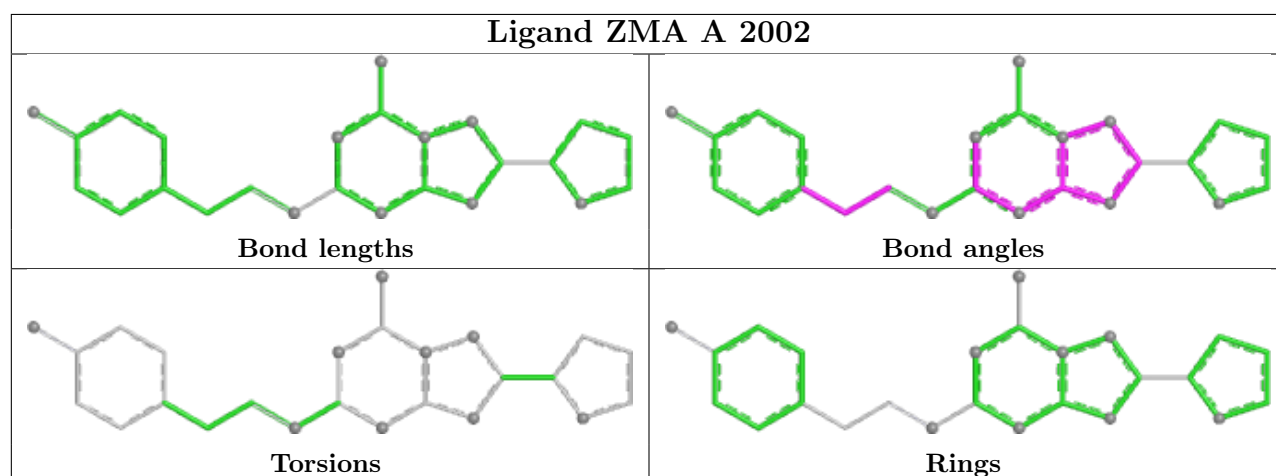
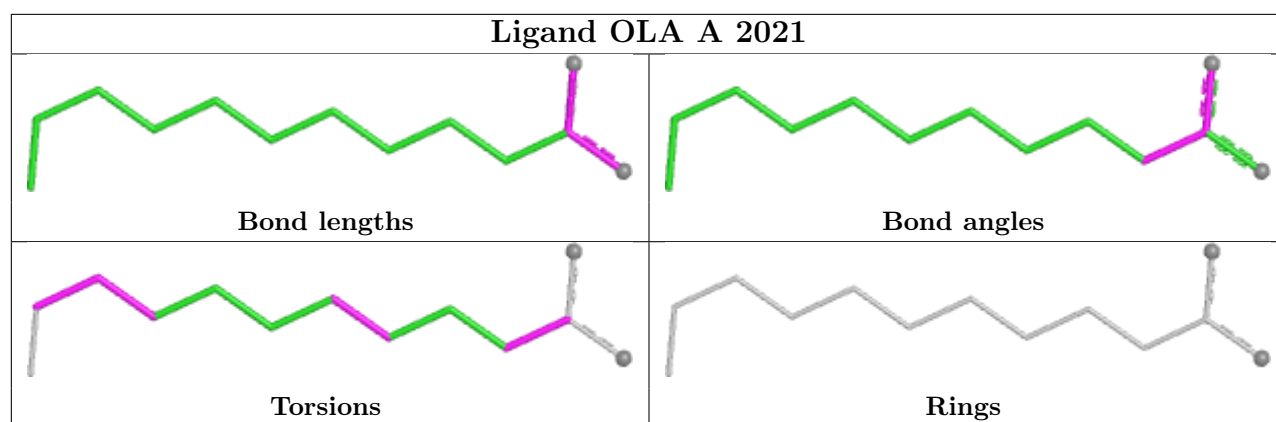


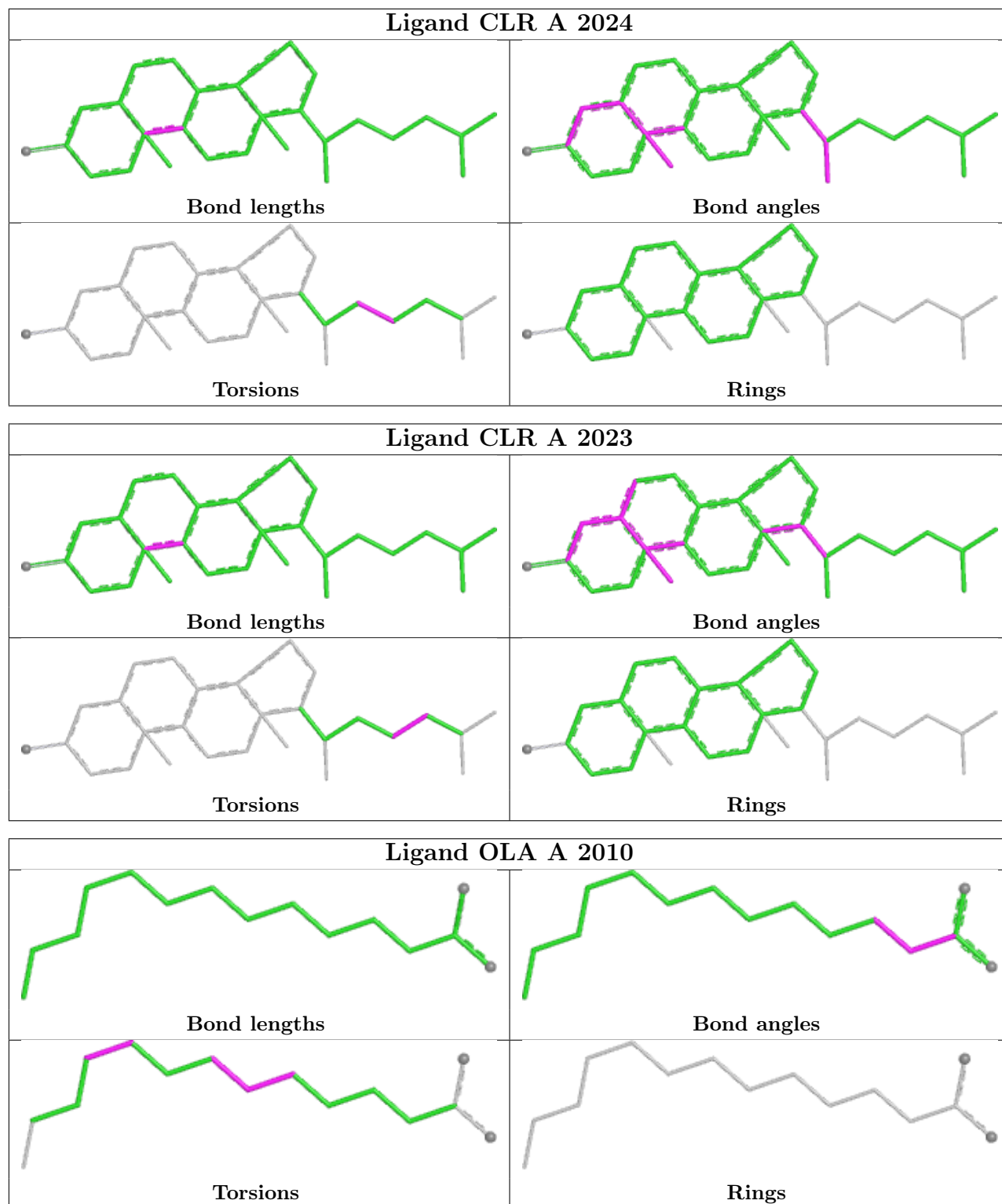


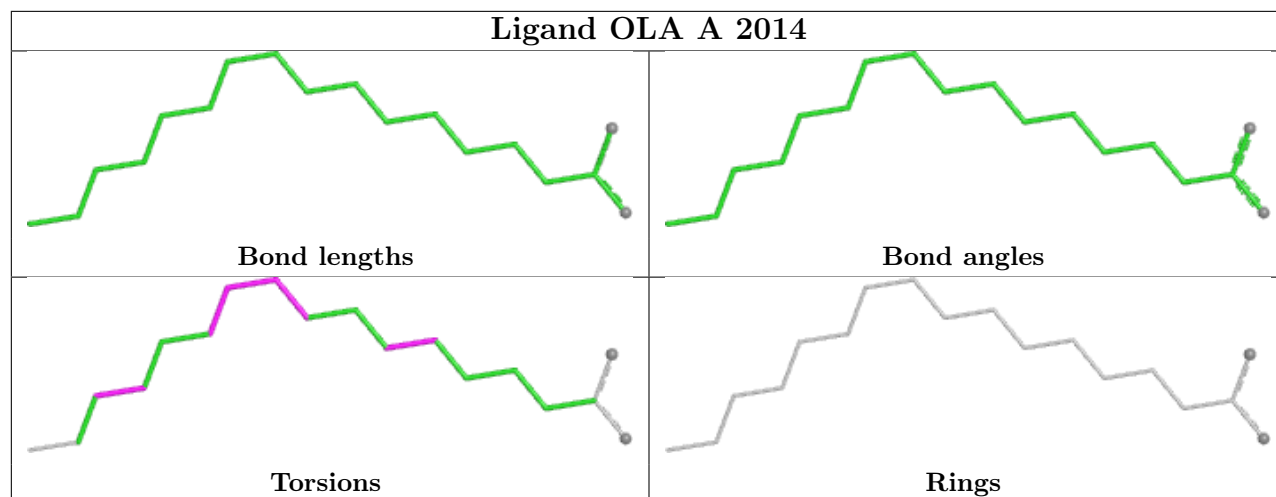












5.7 Other polymers [i](#)

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	390/447 (87%)	0.55	47 (12%) 8 8	27, 57, 117, 138	2 (0%)

The worst 5 of 47 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1007	TRP	5.0
1	A	1061	PHE	4.8
1	A	73	ALA	4.2
1	A	1083	LYS	4.0
1	A	1105	TYR	3.9

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
4	OLA	A	2019	16/20	0.72	0.20	77,101,116,121	0
4	OLA	A	2018	12/20	0.76	0.15	65,87,100,100	0

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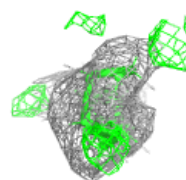
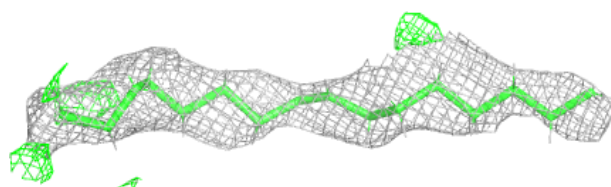
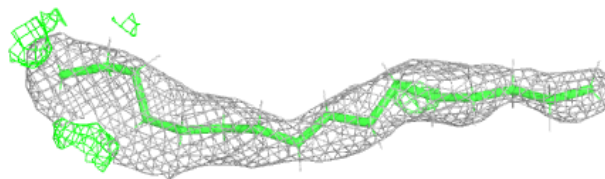
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
4	OLA	A	2015	14/20	0.76	0.19	71,97,119,120	0
4	OLA	A	2021	13/20	0.76	0.20	75,95,108,117	0
4	OLA	A	2012	17/20	0.77	0.19	76,108,136,140	0
4	OLA	A	2008	17/20	0.82	0.21	62,89,130,131	0
4	OLA	A	2006	13/20	0.83	0.14	73,93,116,128	0
4	OLA	A	2013	17/20	0.83	0.16	60,87,110,125	0
4	OLA	A	2011	17/20	0.84	0.14	62,81,98,108	0
4	OLA	A	2010	15/20	0.84	0.16	58,75,83,86	0
4	OLA	A	2017	8/20	0.84	0.14	72,87,100,100	0
4	OLA	A	2014	18/20	0.85	0.16	62,82,110,118	0
4	OLA	A	2005	8/20	0.86	0.14	64,80,87,90	0
4	OLA	A	2020	20/20	0.87	0.15	63,80,100,100	0
4	OLA	A	2003	14/20	0.87	0.16	63,81,94,96	0
4	OLA	A	2009	17/20	0.88	0.15	65,85,109,126	0
5	CLR	A	2022	28/28	0.88	0.12	58,75,111,114	0
4	OLA	A	2007	17/20	0.89	0.16	72,90,101,104	0
4	OLA	A	2016	7/20	0.89	0.15	54,66,76,79	0
5	CLR	A	2023	28/28	0.89	0.12	54,74,105,138	0
4	OLA	A	2004	9/20	0.90	0.12	54,65,78,79	0
5	CLR	A	2024	28/28	0.91	0.11	50,69,101,105	0
2	NA	A	2001	1/1	0.97	0.14	41,41,41,41	0
3	ZMA	A	2002	25/25	0.97	0.07	29,42,66,86	0

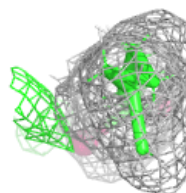
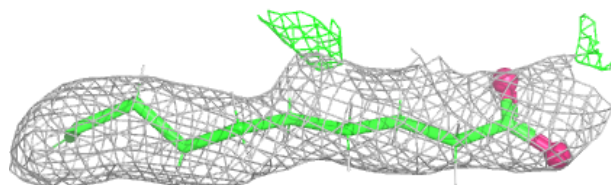
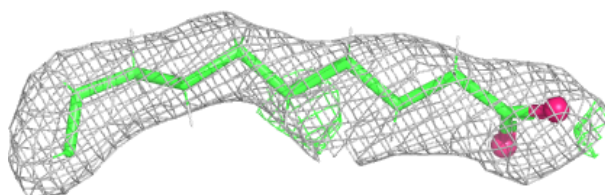
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around OLA A 2019:

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

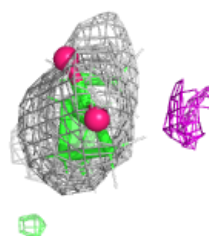
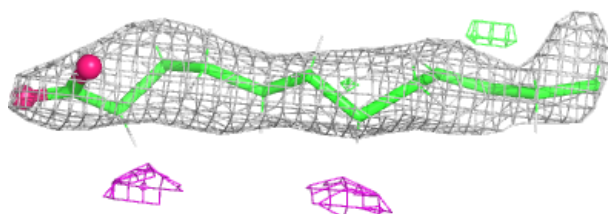
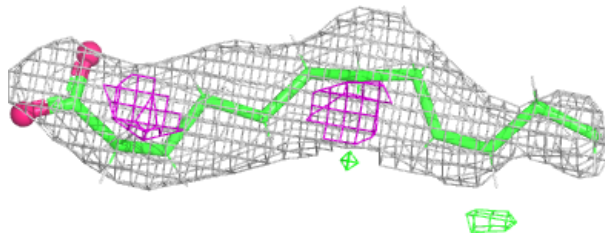
**Electron density around OLA A 2018:**

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

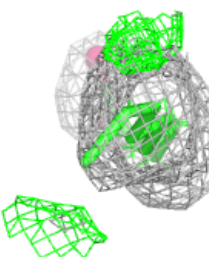
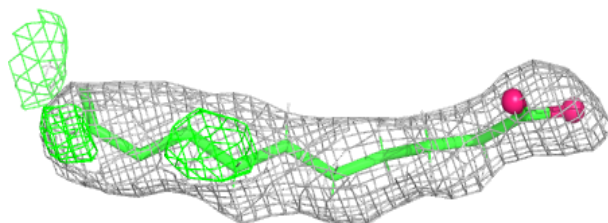
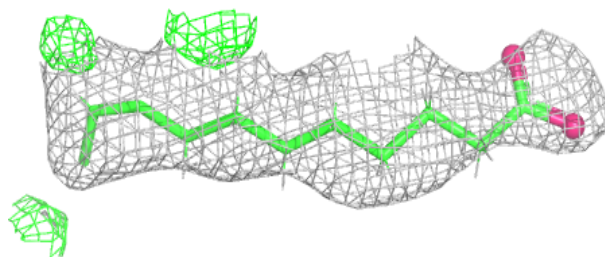


Electron density around OLA A 2015:

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

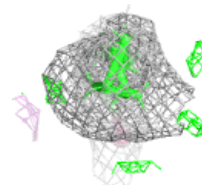
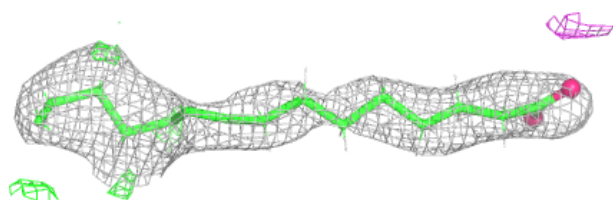
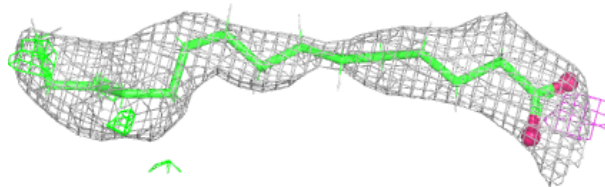
**Electron density around OLA A 2021:**

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

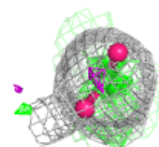
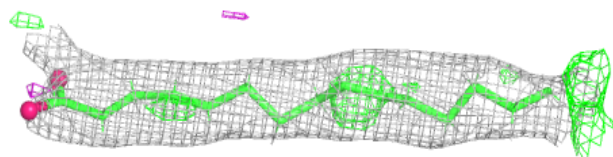
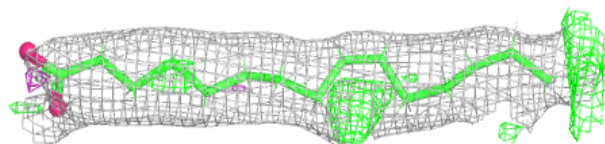


Electron density around OLA A 2012:

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

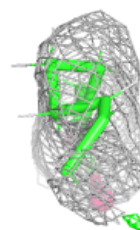
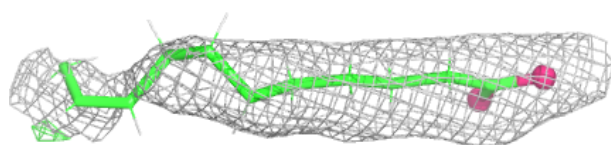
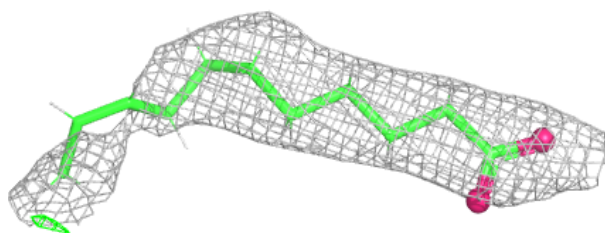
**Electron density around OLA A 2008:**

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

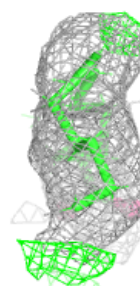
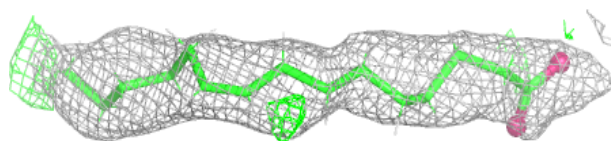
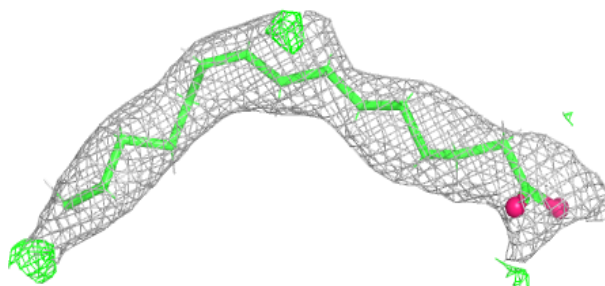


Electron density around OLA A 2006:

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

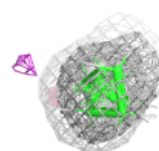
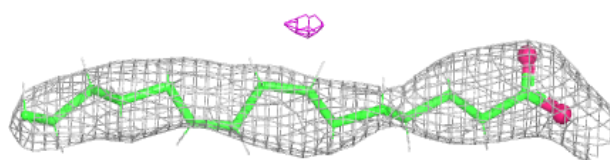
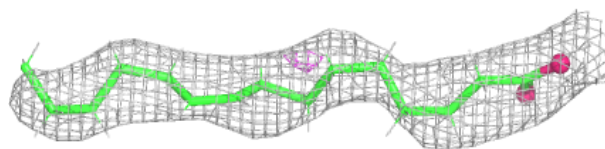
**Electron density around OLA A 2013:**

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

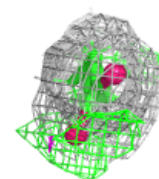
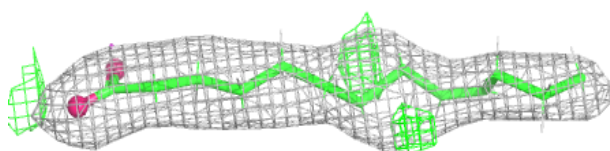
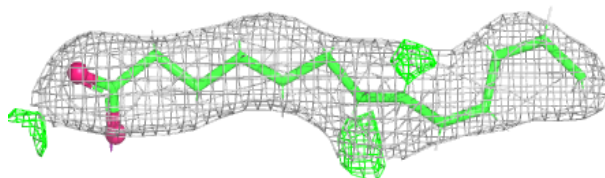


Electron density around OLA A 2011:

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

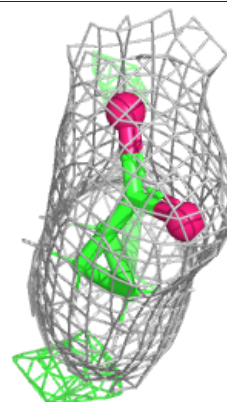
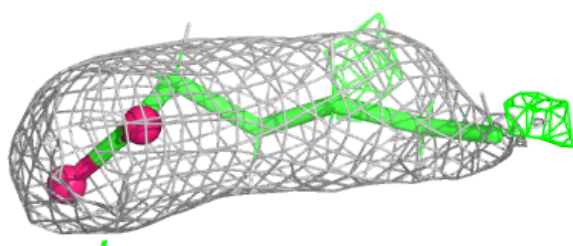
**Electron density around OLA A 2010:**

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

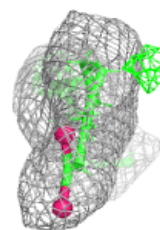
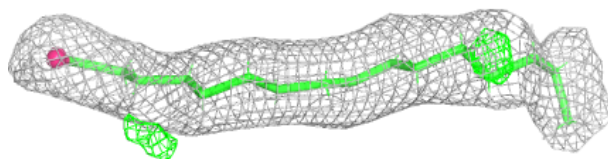
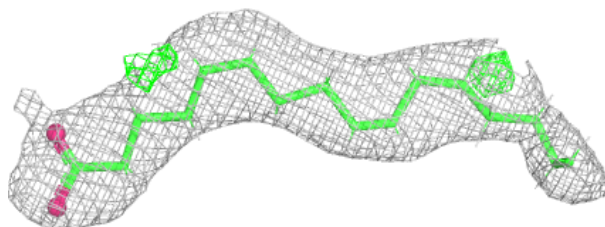


Electron density around OLA A 2017:

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

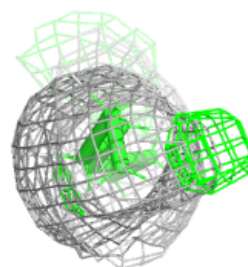
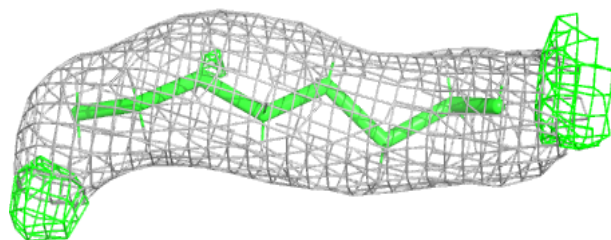
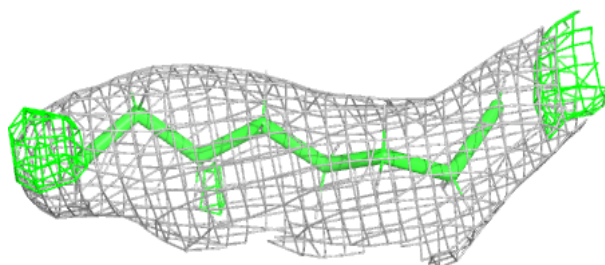
**Electron density around OLA A 2014:**

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

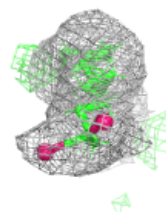
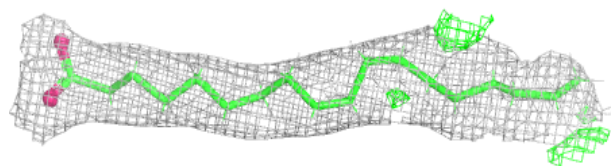
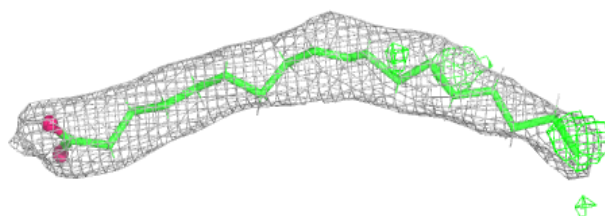


Electron density around OLA A 2005:

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

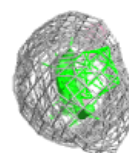
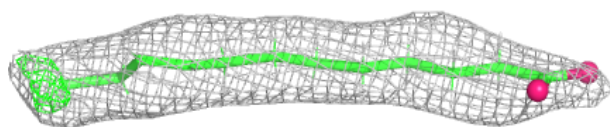
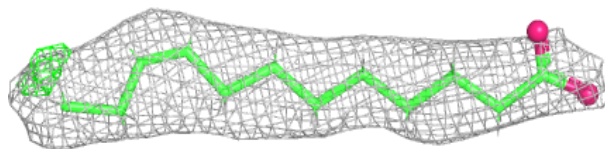
**Electron density around OLA A 2020:**

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

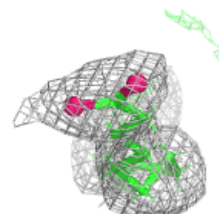
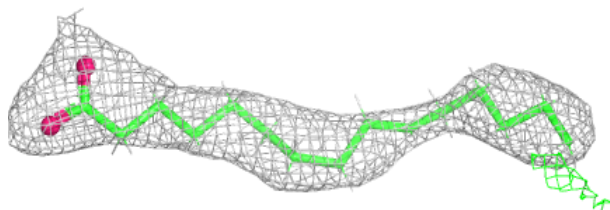
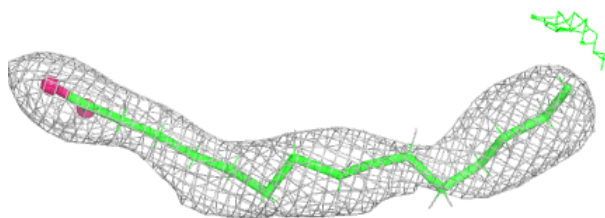


Electron density around OLA A 2003:

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

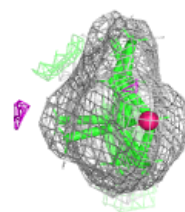
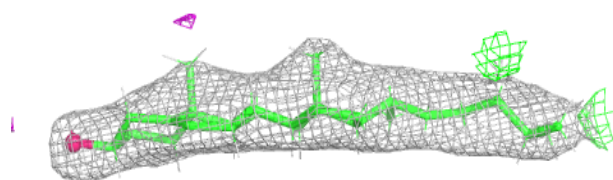
**Electron density around OLA A 2009:**

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

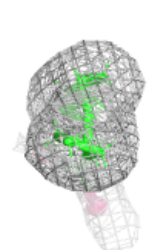
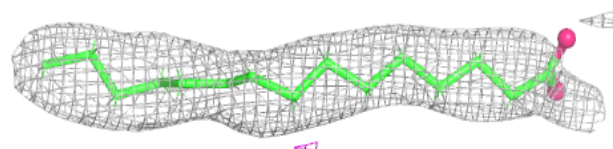
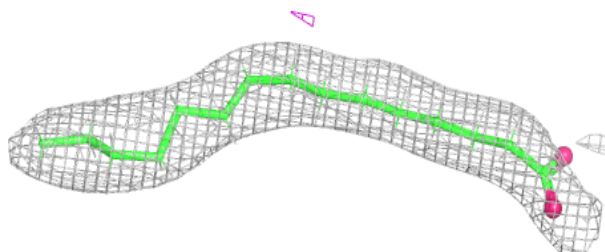


Electron density around CLR A 2022:

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

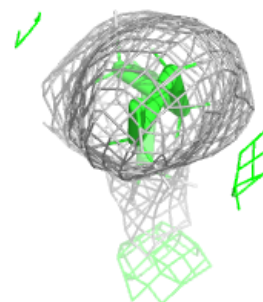
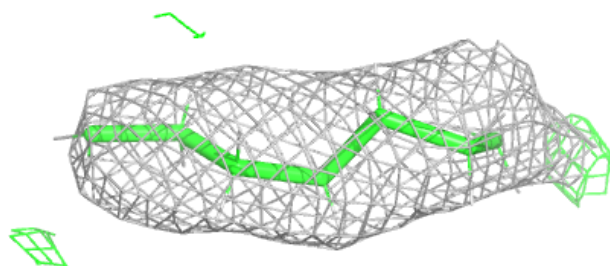
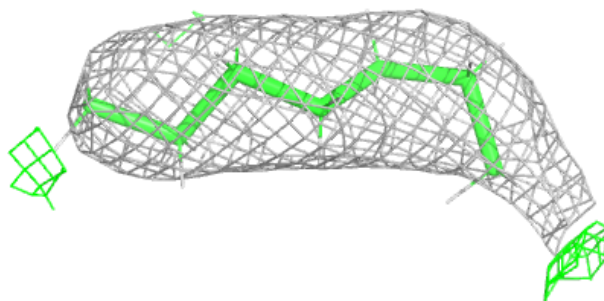
**Electron density around OLA A 2007:**

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

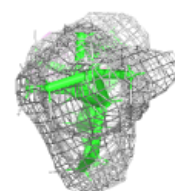
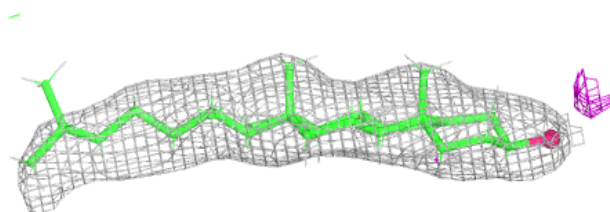
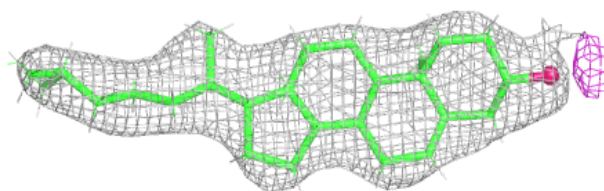


Electron density around OLA A 2016:

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

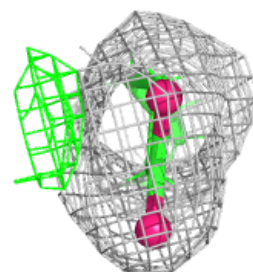
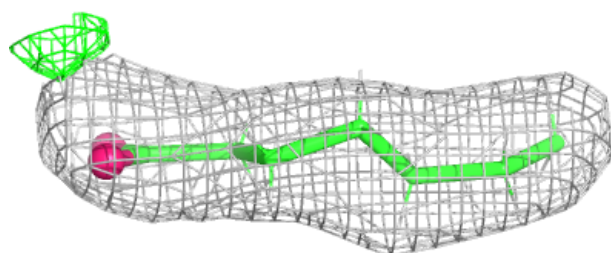
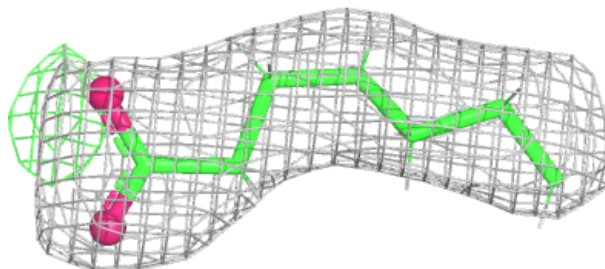
**Electron density around CLR A 2023:**

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

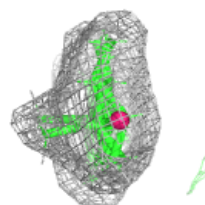
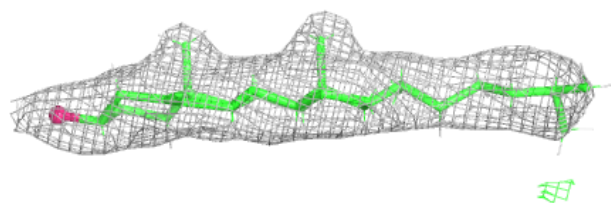
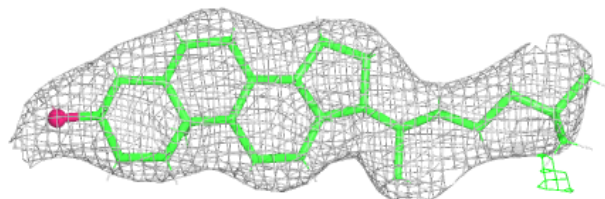


Electron density around OLA A 2004:

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

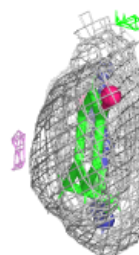
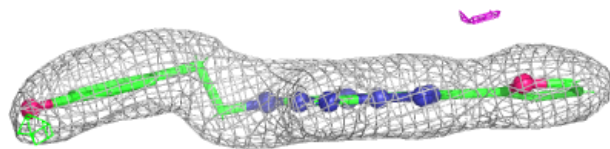
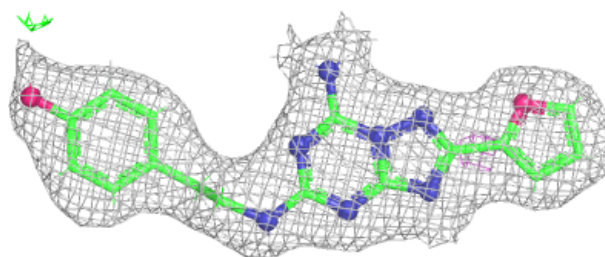
**Electron density around CLR A 2024:**

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



Electron density around ZMA A 2002:

$2mF_o-DF_c$ (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.