



wwPDB X-ray Structure Validation Summary Report ⓘ

Jun 14, 2020 – 01:35 pm BST

PDB ID : 2J8S
Title : Drug Export Pathway of Multidrug Exporter AcrB Revealed by DARPin Inhibitors
Authors : Sennhauser, G.; Amstutz, P.; Briand, C.; Storchenegger, O.; Gruetter, M.G.
Deposited on : 2006-10-27
Resolution : 2.54 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 following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.11
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.11

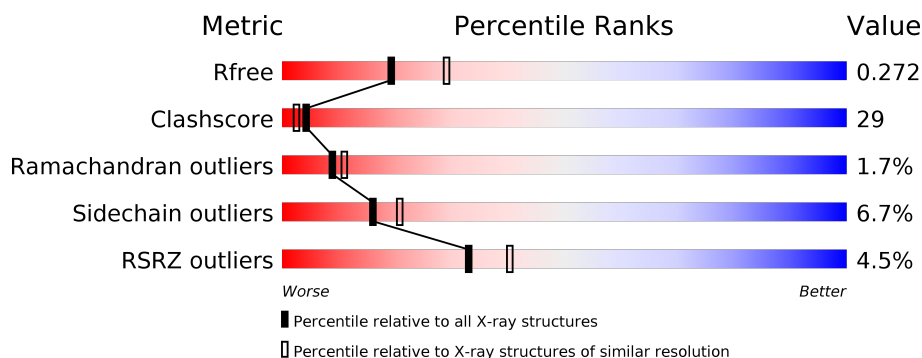
1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.54 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}	130704	1284 (2.56-2.52)
Clashscore	141614	1332 (2.56-2.52)
Ramachandran outliers	138981	1315 (2.56-2.52)
Sidechain outliers	138945	1315 (2.56-2.52)
RSRZ outliers	127900	1272 (2.56-2.52)

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 on 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	1055	<div> <div>7%</div> <div> <div></div> <div>55%</div> <div>40%</div> <div>5%</div> </div> </div>
1	B	1055	<div> <div>3%</div> <div> <div></div> <div>53%</div> <div>40%</div> <div></div> </div> </div>
1	C	1055	<div> <div>3%</div> <div> <div></div> <div>59%</div> <div>36%</div> <div></div> </div> </div>
2	D	169	<div> <div></div> <div> <div></div> <div>60%</div> <div>29%</div> <div>8%</div> </div> </div>
2	E	169	<div> <div>7%</div> <div> <div></div> <div>49%</div> <div>36%</div> <div>5%</div> <div>9%</div> </div> </div>

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	LMT	A	3047	-	-	X	-
3	LMT	A	3048	-	-	X	-
3	LMT	B	3037	-	-	X	-
4	LMU	A	3049	-	-	X	-

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 26771 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

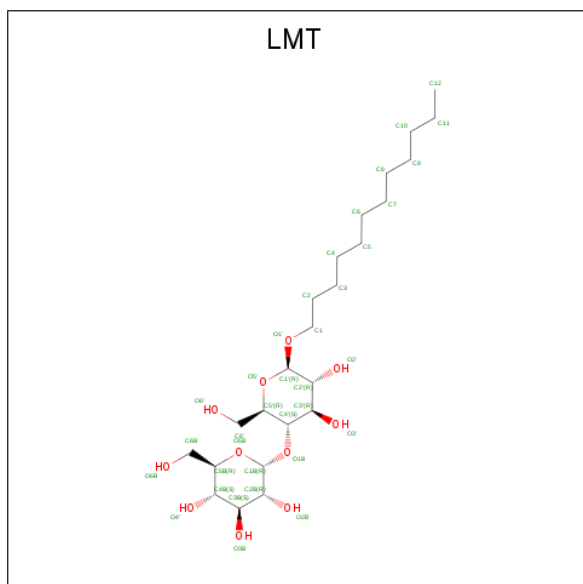
- Molecule 1 is a protein called ACRIFLAVINE RESISTANCE PROTEIN B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	1044	Total	C	N	O	S	0	0	0
			7943	5106	1315	1478	44			
1	B	1033	Total	C	N	O	S	0	0	0
			7849	5052	1295	1458	44			
1	C	1040	Total	C	N	O	S	0	0	0
			7908	5086	1307	1471	44			

- Molecule 2 is a protein called DARPIN.

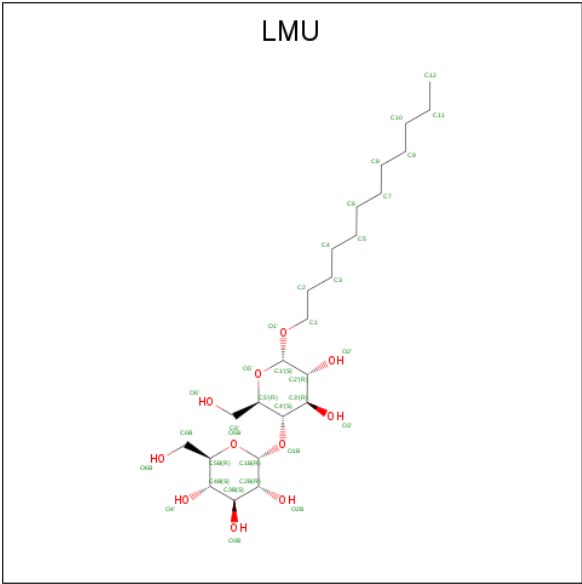
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	D	156	Total	C	N	O	S	0	0	0
			1177	741	206	229	1			
2	E	153	Total	C	N	O	S	0	0	0
			1159	732	203	223	1			

- Molecule 3 is DODECYL-BETA-D-MALTOSE (three-letter code: LMT) (formula: $C_{24}H_{46}O_{11}$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			35	24	11		
3	A	1	Total	C	O	0	0
			35	24	11		
3	A	1	Total	C	O	0	0
			35	24	11		
3	B	1	Total	C	O	0	0
			35	24	11		
3	B	1	Total	C	O	0	0
			35	24	11		
3	B	1	Total	C	O	0	0
			35	24	11		
3	C	1	Total	C	O	0	0
			35	24	11		
3	C	1	Total	C	O	0	0
			35	24	11		
3	C	1	Total	C	O	0	0
			35	24	11		
3	C	1	Total	C	O	0	0
			35	24	11		

- Molecule 4 is DODECYL-ALPHA-D-MALTOSIDE (three-letter code: LMU) (formula: C₂₄H₄₆O₁₁).

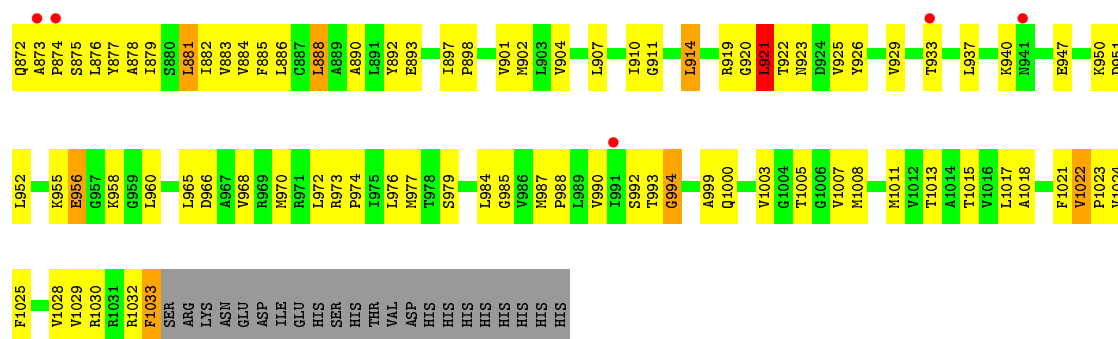


Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			35	24	11		

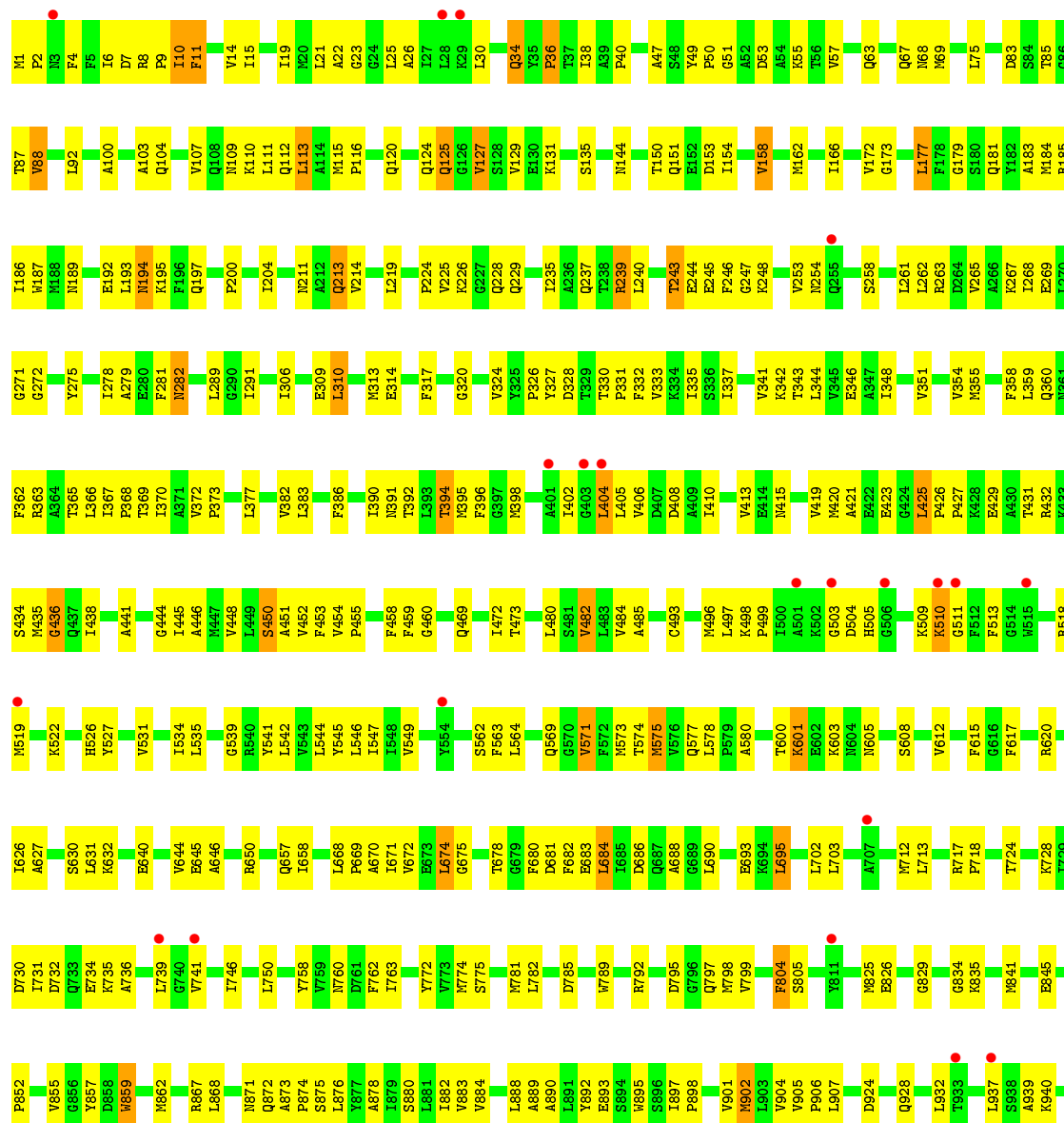
- Molecule 5 is water.

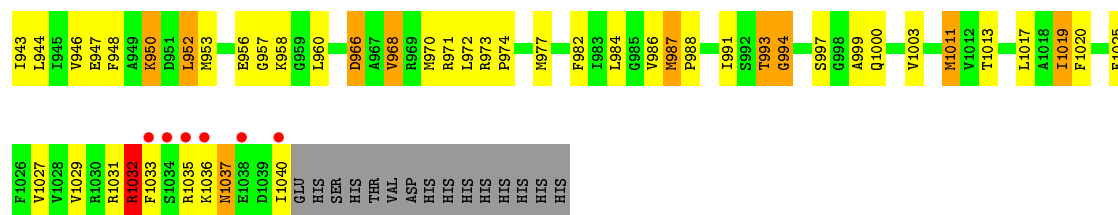
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	118	Total 118	O 118	0	0
5	B	99	Total 99	O 99	0	0
5	C	117	Total 117	O 117	0	0
5	D	10	Total 10	O 10	0	0
5	E	6	Total 6	O 6	0	0





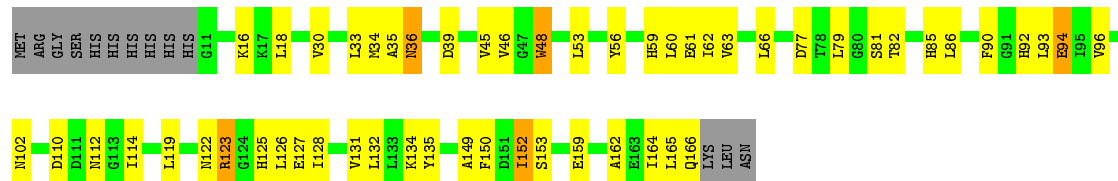
● Molecule 1: ACRIFLAVINE RESISTANCE PROTEIN B





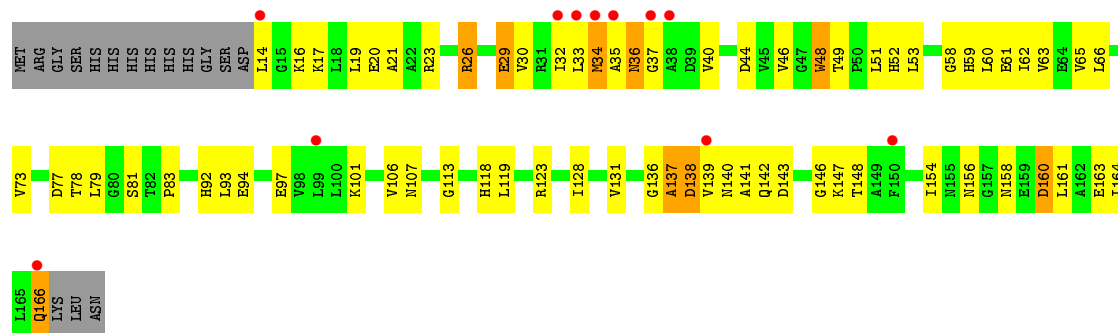
• Molecule 2: DARPIN

Chain D: 60% 29% 8%



• Molecule 2: DARPIN

Chain E: 7% 49% 36% 5% 9%



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	146.18Å 157.41Å 246.04Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	34.36 – 2.54 34.36 – 2.55	Depositor EDS
% Data completeness (in resolution range)	95.1 (34.36-2.54) 95.9 (34.36-2.55)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.11 (at 2.54Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.229 , 0.271 0.229 , 0.272	Depositor DCC
R_{free} test set	3552 reflections (2.00%)	wwPDB-VP
Wilson B-factor (Å ²)	37.0	Xtriage
Anisotropy	0.632	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 52.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.40$, $\langle L^2 \rangle = 0.22$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	26771	wwPDB-VP
Average B, all atoms (Å ²)	43.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.90% 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 [i](#)

5.1 Standard geometry [i](#)

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

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	0.38	0/8095	0.63	0/10991
1	B	0.38	0/7999	0.62	0/10863
1	C	0.39	0/8058	0.63	0/10941
2	D	0.34	0/1196	0.59	0/1626
2	E	0.33	0/1178	0.55	0/1602
All	All	0.38	0/26526	0.62	0/36023

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	7943	0	8084	601	0
1	B	7849	0	8001	448	0
1	C	7908	0	8059	405	0
2	D	1177	0	1159	50	0
2	E	1159	0	1147	56	0
3	A	105	0	136	84	0
3	B	105	0	138	50	0
3	C	140	0	184	60	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	A	35	0	46	50	0
5	A	118	0	0	6	0
5	B	99	0	0	11	0
5	C	117	0	0	6	0
5	D	10	0	0	2	0
5	E	6	0	0	1	0
All	All	26771	0	26954	1565	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 29.

The worst 5 of 1565 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)
3:C:3043:LMT:C1	3:C:3043:LMT:C2	1.78	1.61
3:C:3046:LMT:H11	3:C:3046:LMT:O3'	1.28	1.27
1:A:348:ILE:CB	4:A:3049:LMU:H123	1.71	1.18
1:A:932:LEU:HD12	3:A:3048:LMT:H81	1.21	1.16
1:A:932:LEU:HA	3:A:3048:LMT:H82	1.21	1.15

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	1042/1055 (99%)	941 (90%)	74 (7%)	27 (3%)	5 5
1	B	1031/1055 (98%)	945 (92%)	73 (7%)	13 (1%)	12 16
1	C	1038/1055 (98%)	947 (91%)	80 (8%)	11 (1%)	14 19
2	D	154/169 (91%)	146 (95%)	6 (4%)	2 (1%)	12 16
2	E	151/169 (89%)	130 (86%)	17 (11%)	4 (3%)	5 5

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	3416/3503 (98%)	3109 (91%)	250 (7%)	57 (2%)	9	11

5 of 57 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	510	LYS
1	A	674	LEU
1	A	677	ALA
1	A	678	THR
1	A	959	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	850/861 (99%)	799 (94%)	51 (6%)	19	25
1	B	839/861 (97%)	775 (92%)	64 (8%)	13	17
1	C	846/861 (98%)	790 (93%)	56 (7%)	16	22
2	D	120/132 (91%)	114 (95%)	6 (5%)	24	33
2	E	118/132 (89%)	109 (92%)	9 (8%)	13	17
All	All	2773/2847 (97%)	2587 (93%)	186 (7%)	16	21

5 of 186 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	577	GLN
1	B	888	LEU
2	D	36	ASN
1	B	610	PHE
1	B	711	ASP

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 68 such sidechains are listed below:

Mol	Chain	Res	Type
1	B	213	GLN
1	B	941	ASN
2	D	122	ASN
1	B	360	GLN
1	B	687	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 carbohydrates in this entry.

5.6 Ligand geometry ⓘ

11 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
3	LMT	C	3042	-	36,36,36	0.51	0	47,47,47	1.49	6 (12%)
3	LMT	C	3046	-	36,36,36	0.63	1 (2%)	47,47,47	1.31	7 (14%)
3	LMT	B	3035	-	36,36,36	0.47	0	47,47,47	1.18	6 (12%)
3	LMT	A	3048	-	36,36,36	1.47	4 (11%)	47,47,47	1.31	6 (12%)
3	LMT	A	3046	-	36,36,36	1.17	4 (11%)	47,47,47	1.38	6 (12%)
4	LMU	A	3049	-	36,36,36	0.53	0	47,47,47	1.20	4 (8%)
3	LMT	C	3043	-	36,36,36	1.70	5 (13%)	47,47,47	1.73	10 (21%)
3	LMT	A	3047	-	36,36,36	0.64	1 (2%)	47,47,47	1.64	9 (19%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	LMT	B	3037	-	36,36,36	0.71	1 (2%)	47,47,47	1.95	9 (19%)
3	LMT	C	3044	-	36,36,36	0.43	0	47,47,47	1.53	6 (12%)
3	LMT	B	3036	-	36,36,36	0.51	0	47,47,47	1.61	7 (14%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	LMT	C	3042	-	-	14/21/61/61	0/2/2/2
3	LMT	C	3046	-	-	9/21/61/61	0/2/2/2
3	LMT	B	3035	-	-	12/21/61/61	0/2/2/2
3	LMT	A	3048	-	-	11/21/61/61	0/2/2/2
3	LMT	A	3046	-	-	13/21/61/61	0/2/2/2
4	LMU	A	3049	-	-	12/21/61/61	0/2/2/2
3	LMT	C	3043	-	-	9/21/61/61	0/2/2/2
3	LMT	A	3047	-	-	11/21/61/61	0/2/2/2
3	LMT	B	3037	-	-	17/21/61/61	0/2/2/2
3	LMT	C	3044	-	-	11/21/61/61	0/2/2/2
3	LMT	B	3036	-	-	12/21/61/61	0/2/2/2

The worst 5 of 16 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	3043	LMT	C2-C1	6.54	1.78	1.51
3	A	3048	LMT	C2-C1	-5.27	1.28	1.51
3	A	3048	LMT	O1'-C1'	3.65	1.46	1.40
3	A	3046	LMT	O5B-C5B	3.41	1.52	1.44
3	C	3043	LMT	O1'-C1'	3.37	1.45	1.40

The worst 5 of 76 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	3036	LMT	C1-O1'-C1'	-5.74	104.33	113.84
3	B	3037	LMT	O1'-C1'-C2'	5.64	117.11	108.30
3	B	3037	LMT	O5B-C5B-C4B	-5.36	99.97	109.69
3	C	3044	LMT	O1'-C1'-C2'	5.14	116.33	108.30
3	A	3047	LMT	O1'-C1'-C2'	4.98	116.07	108.30

There are no chirality outliers.

5 of 131 torsion outliers are listed below:

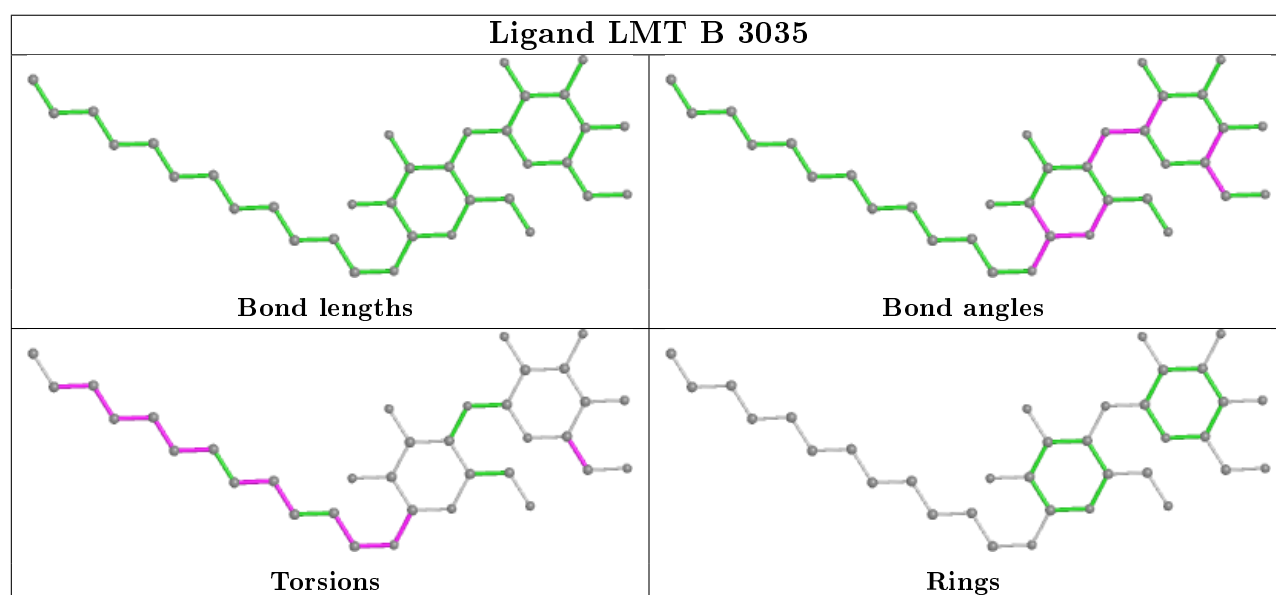
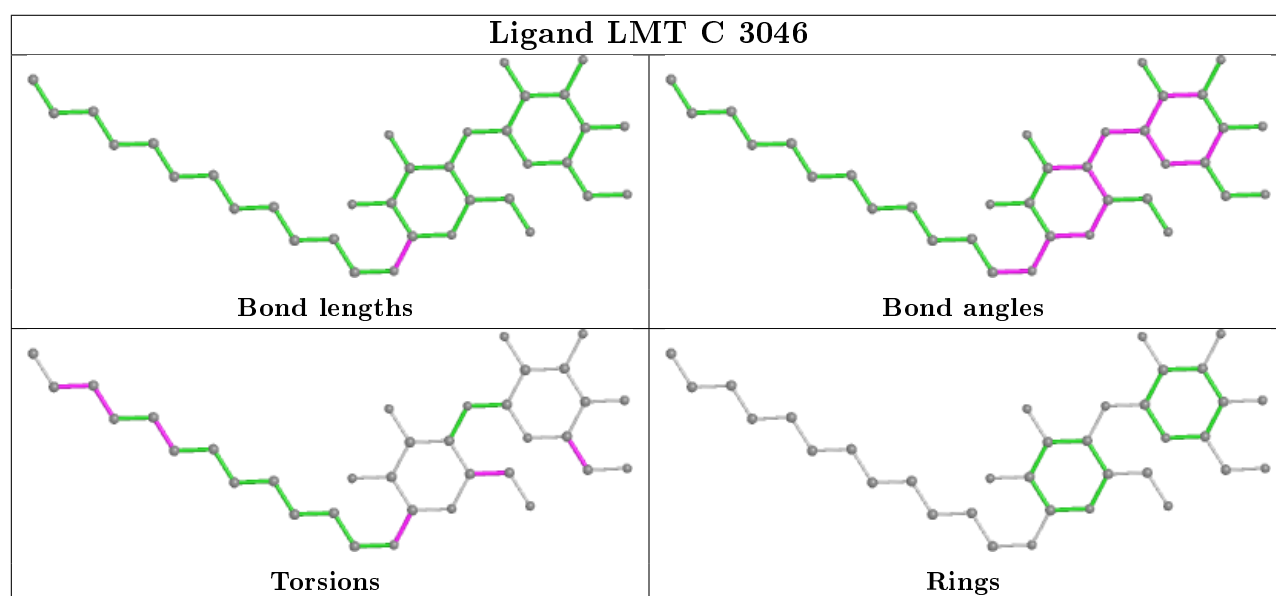
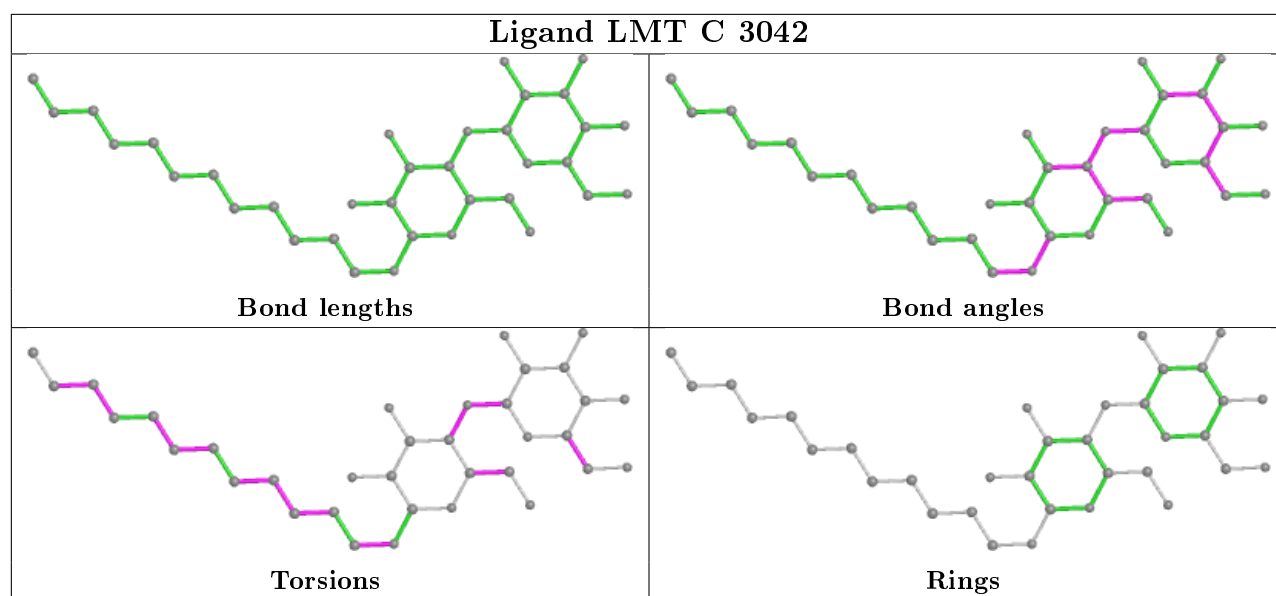
Mol	Chain	Res	Type	Atoms
3	C	3042	LMT	C2-C1-O1'-C1'
3	C	3046	LMT	C2'-C1'-O1'-C1
3	C	3046	LMT	O5'-C1'-O1'-C1
3	A	3048	LMT	C2'-C1'-O1'-C1
3	A	3048	LMT	O5'-C1'-O1'-C1

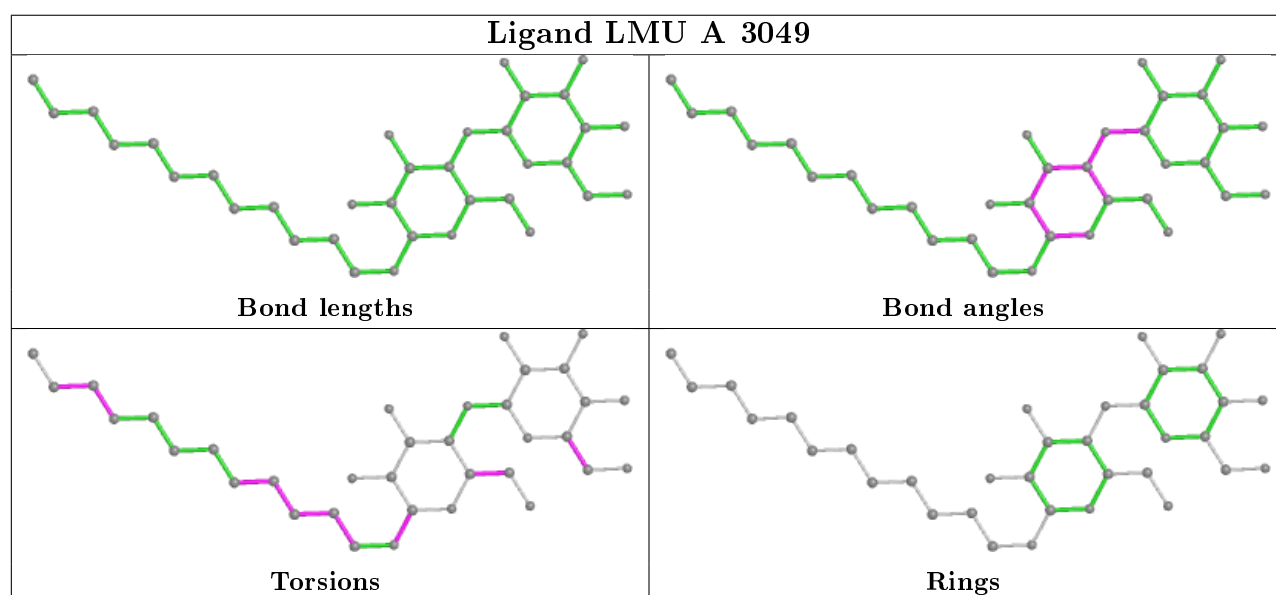
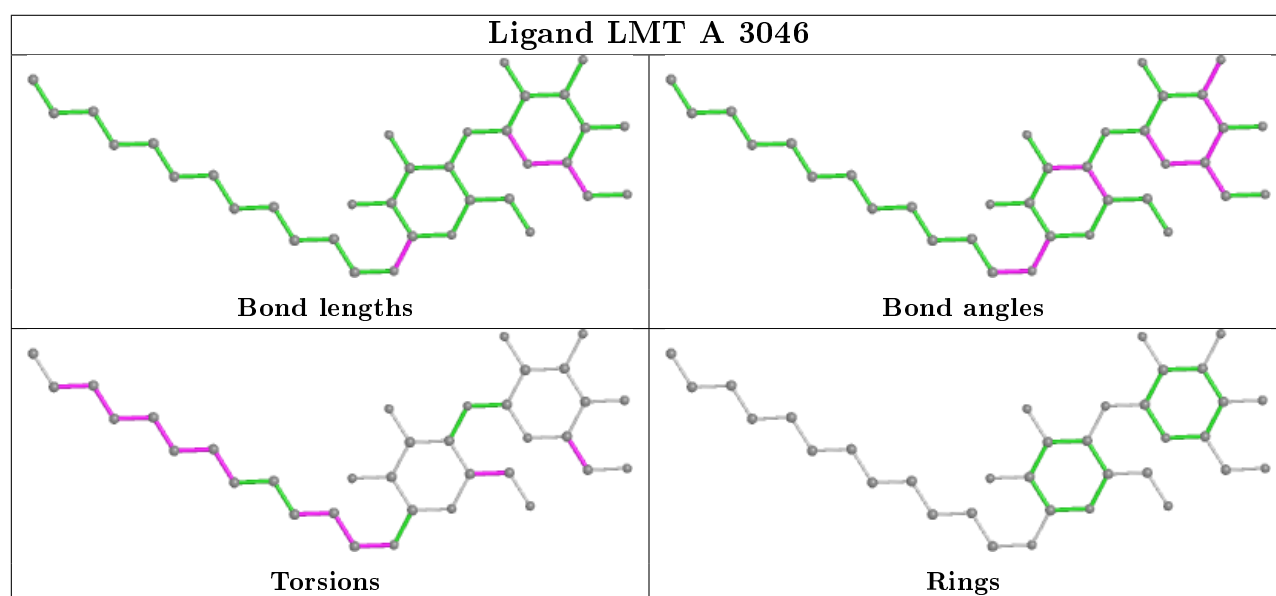
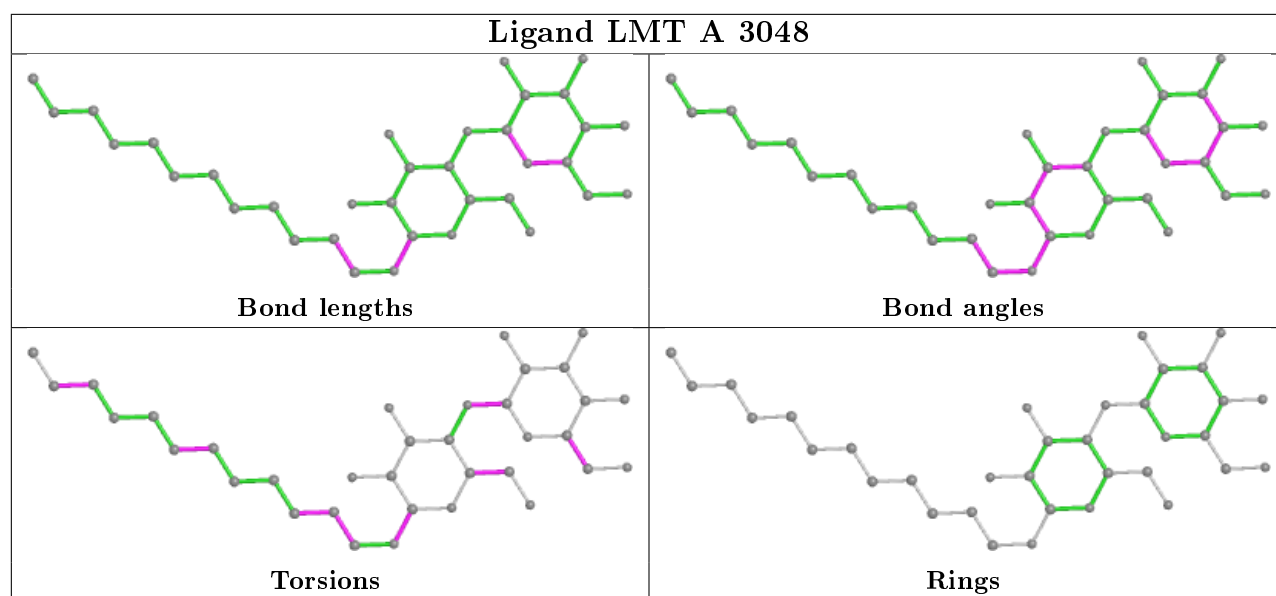
There are no ring outliers.

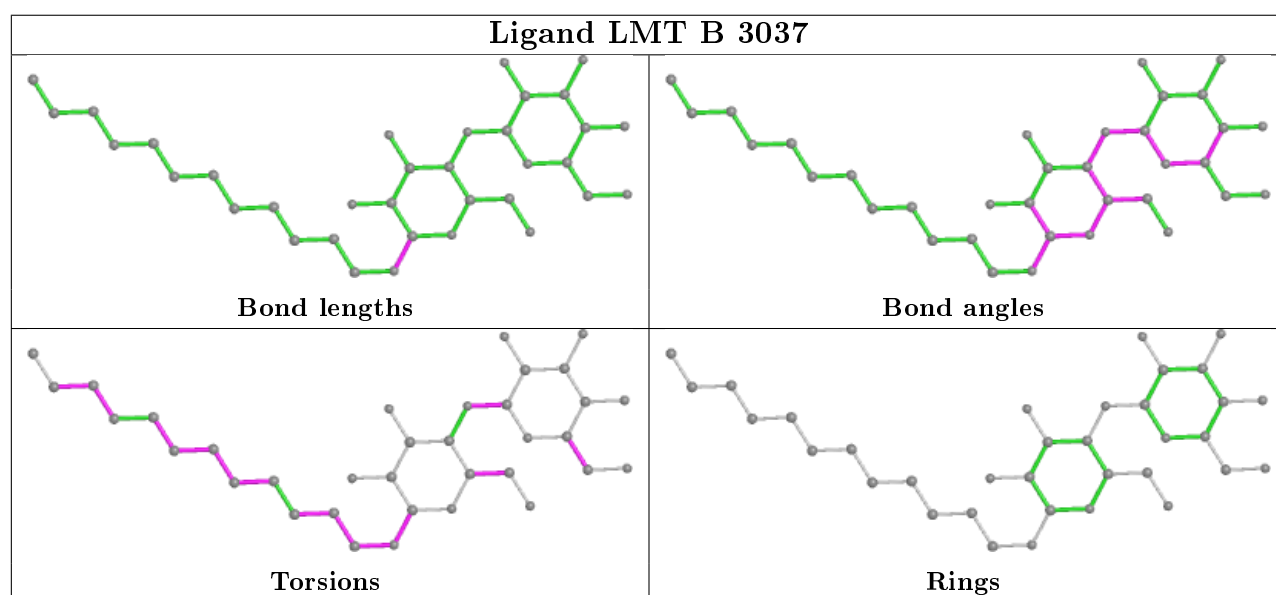
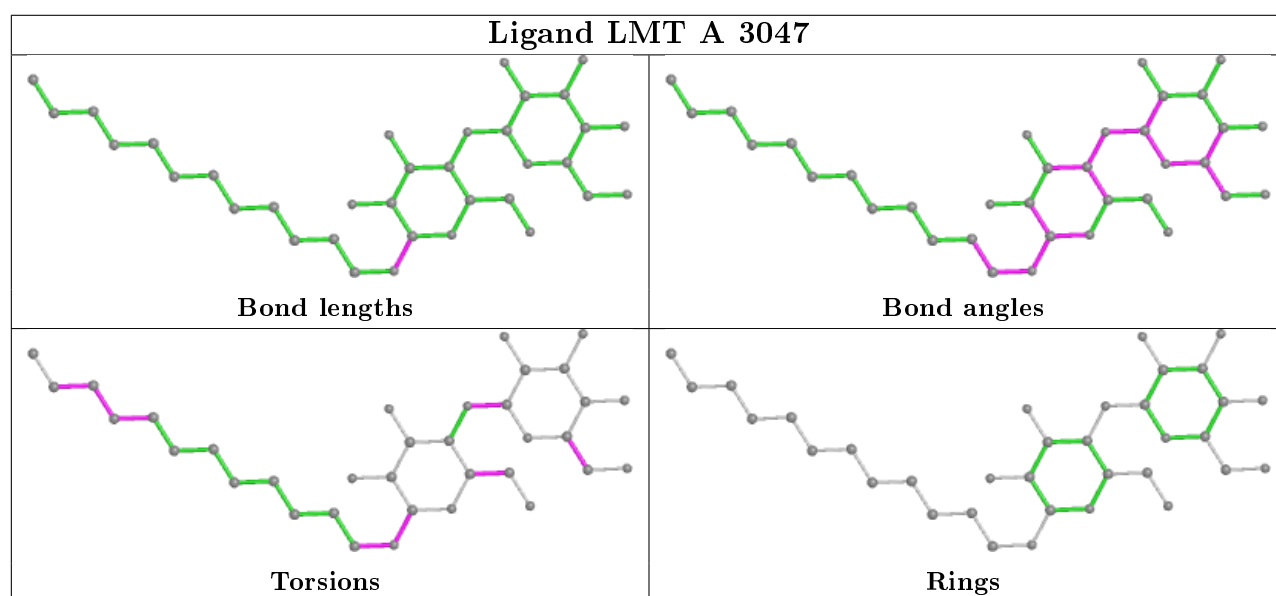
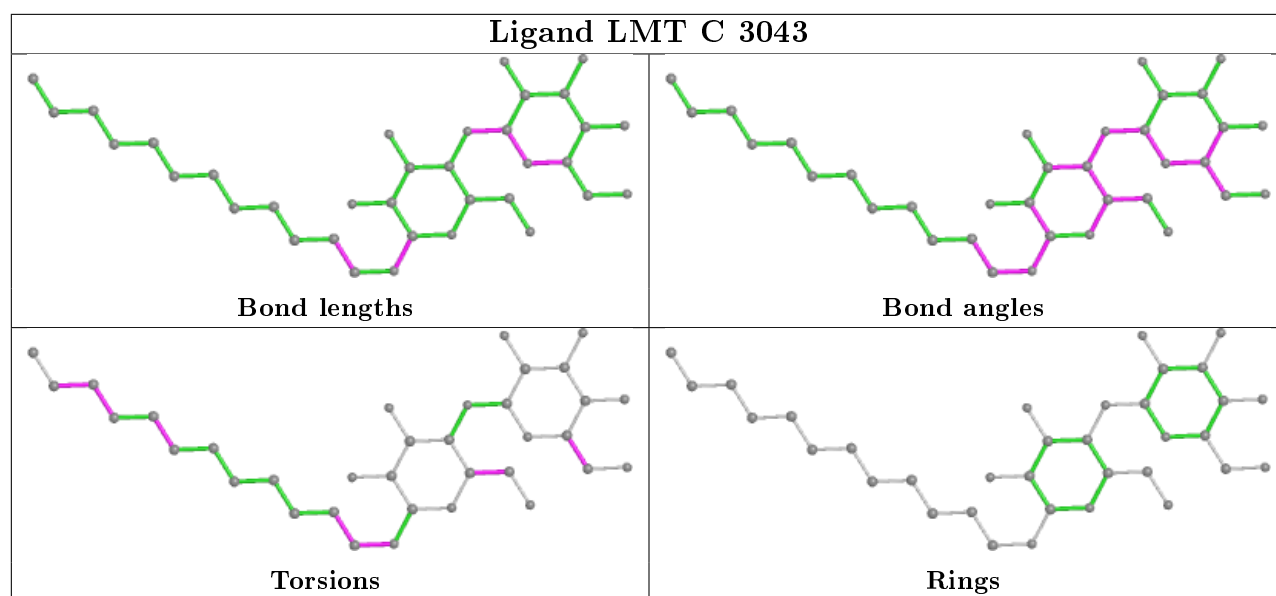
11 monomers are involved in 238 short contacts:

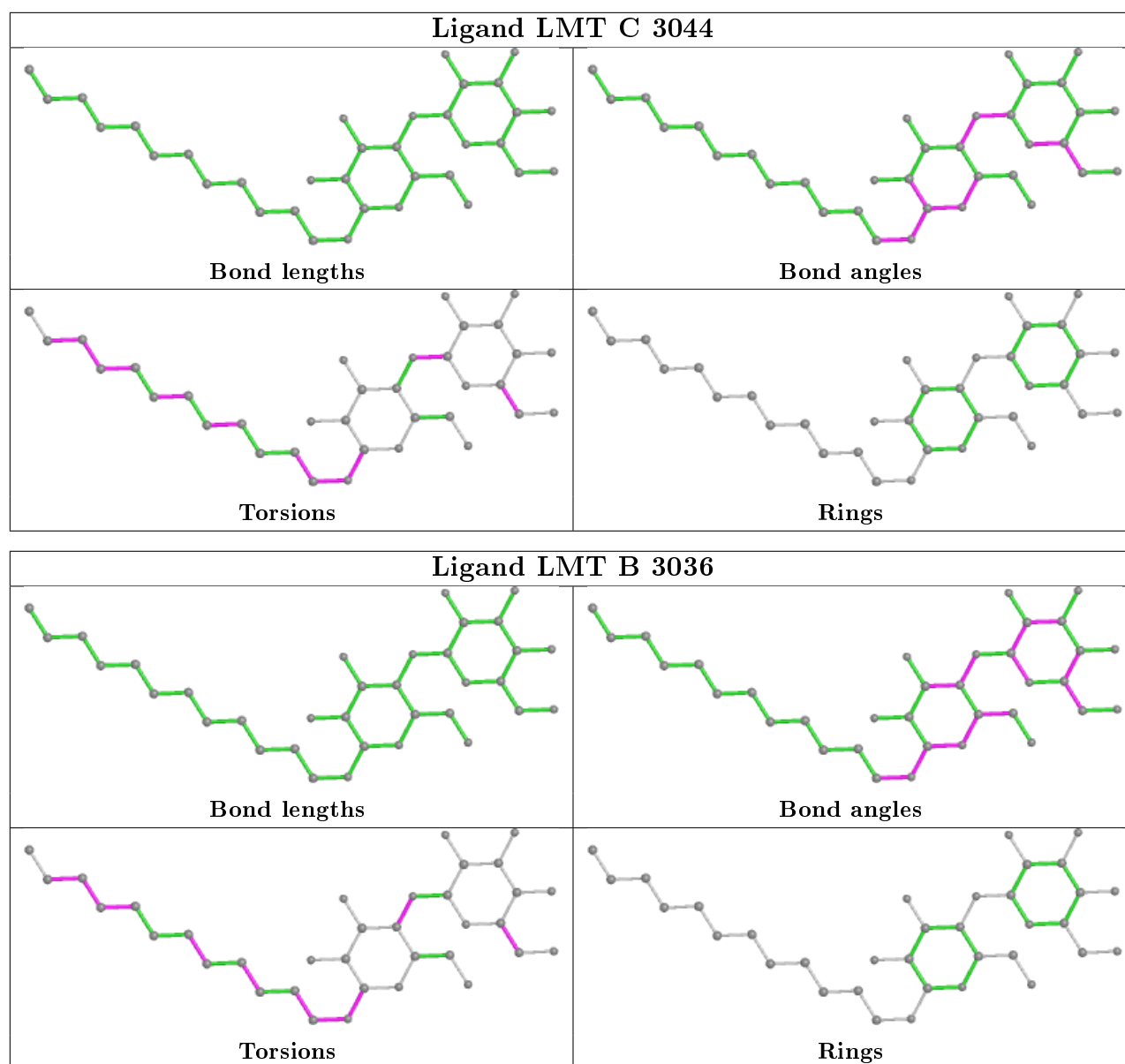
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	C	3042	LMT	17	0
3	C	3046	LMT	16	0
3	B	3035	LMT	3	0
3	A	3048	LMT	26	0
3	A	3046	LMT	10	0
4	A	3049	LMU	50	0
3	C	3043	LMT	15	0
3	A	3047	LMT	48	0
3	B	3037	LMT	29	0
3	C	3044	LMT	12	0
3	B	3036	LMT	18	0

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	1044/1055 (98%)	0.13	79 (7%) 13 17	13, 43, 87, 106	0
1	B	1033/1055 (97%)	-0.02	36 (3%) 44 51	14, 40, 66, 89	0
1	C	1040/1055 (98%)	-0.04	27 (2%) 56 62	16, 36, 62, 94	0
2	D	156/169 (92%)	-0.06	0 100 100	25, 39, 63, 75	0
2	E	153/169 (90%)	0.43	11 (7%) 15 18	28, 54, 76, 81	0
All	All	3426/3503 (97%)	0.04	153 (4%) 33 40	13, 40, 73, 106	0

The worst 5 of 153 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	1035	ARG	8.0
1	C	1034	SER	6.5
1	A	1035	ARG	5.4
1	A	918	PHE	5.0
2	E	33	LEU	4.9

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 carbohydrates in this entry.

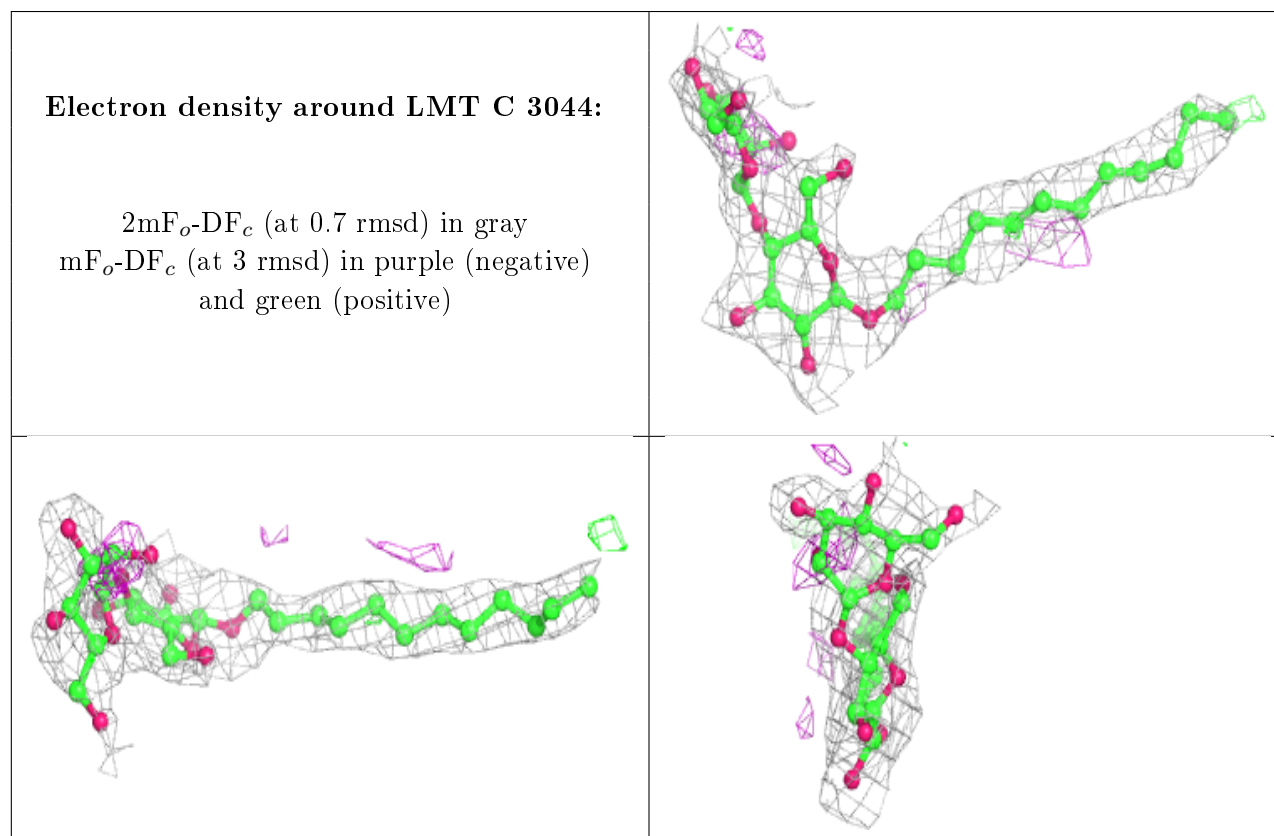
6.4 Ligands [i](#)

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.

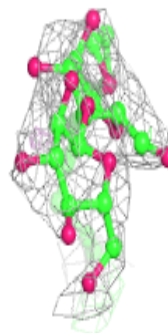
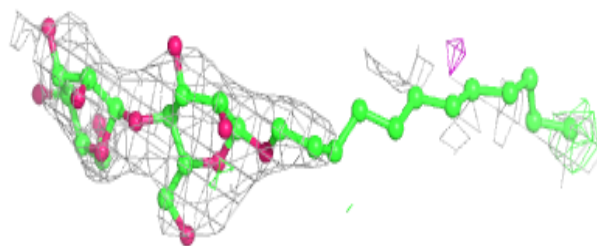
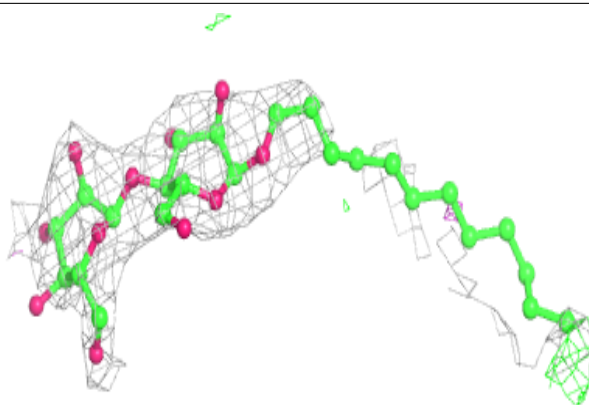
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
3	LMT	C	3044	35/35	0.73	0.34	57,84,94,95	0
4	LMU	A	3049	35/35	0.78	0.40	90,98,121,121	0
3	LMT	C	3046	35/35	0.80	0.47	103,106,110,111	0
3	LMT	B	3036	35/35	0.80	0.27	65,78,86,87	0
3	LMT	C	3043	35/35	0.81	0.41	64,70,112,113	0
3	LMT	A	3048	35/35	0.83	0.29	90,92,116,117	0
3	LMT	C	3042	35/35	0.85	0.37	94,97,104,105	0
3	LMT	A	3047	35/35	0.85	0.32	75,83,117,118	0
3	LMT	A	3046	35/35	0.86	0.20	48,59,69,70	0
3	LMT	B	3035	35/35	0.88	0.26	56,67,69,71	0
3	LMT	B	3037	35/35	0.88	0.57	124,128,147,149	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.

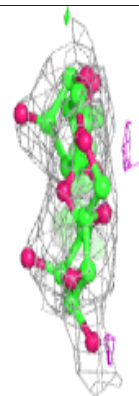
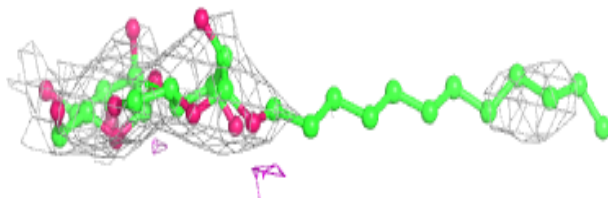
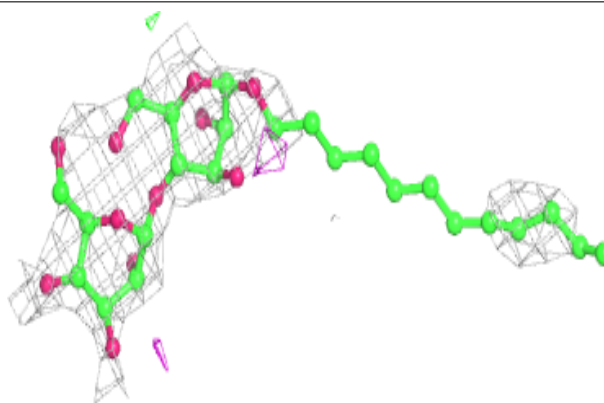


Electron density around LMU A 3049:

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

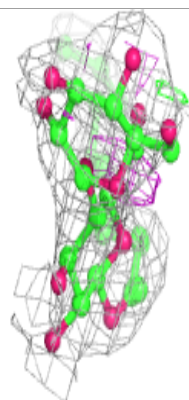
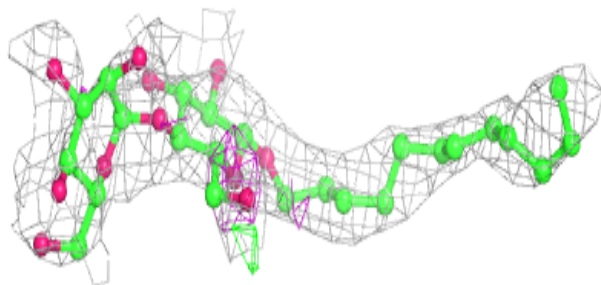
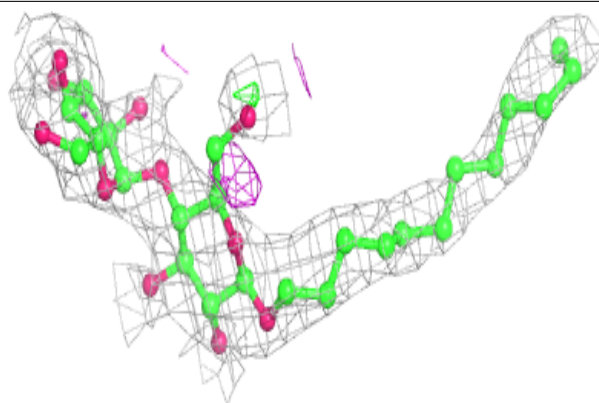
**Electron density around LMT C 3046:**

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

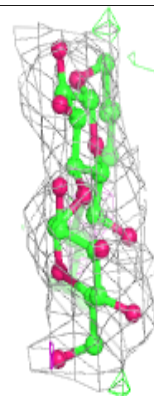
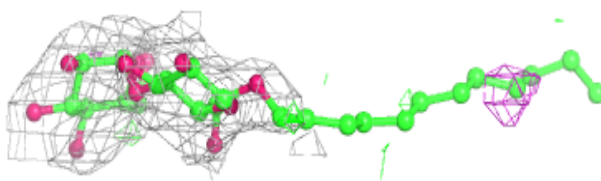
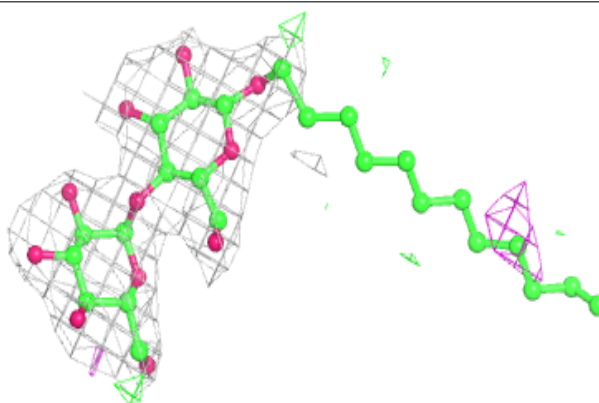


Electron density around LMT B 3036:

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

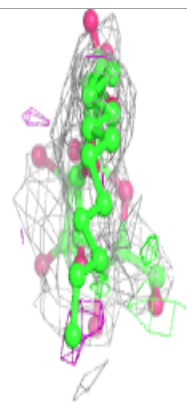
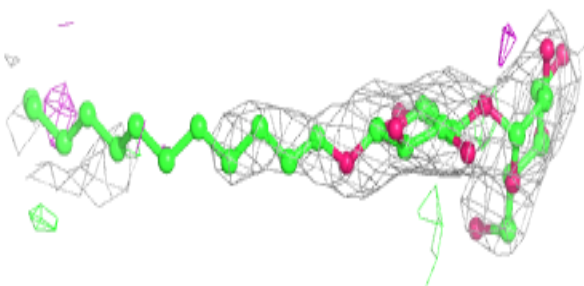
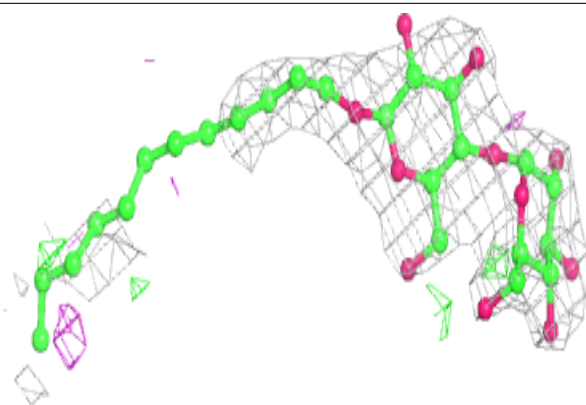
**Electron density around LMT C 3043:**

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

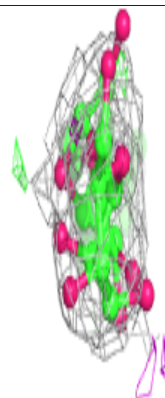
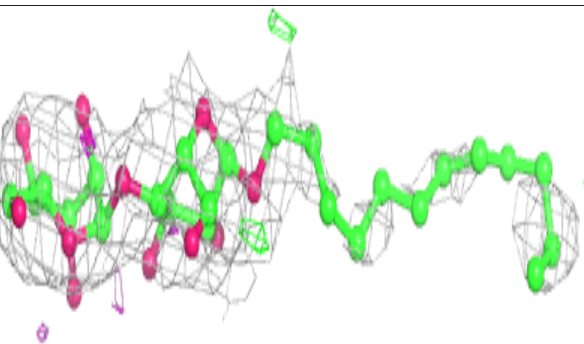
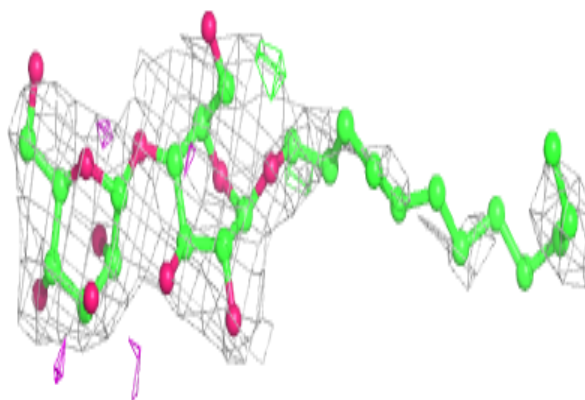


Electron density around LMT A 3048:

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

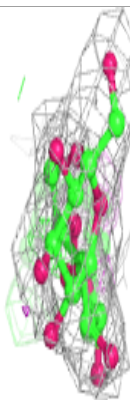
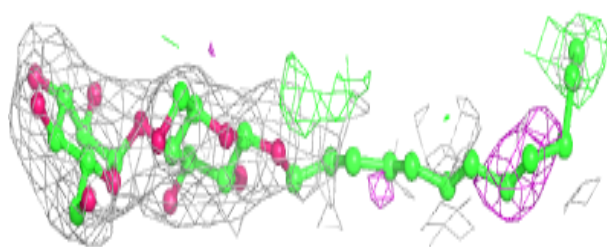
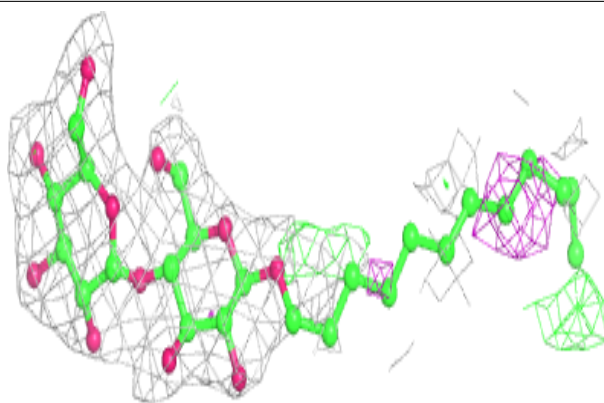
**Electron density around LMT C 3042:**

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

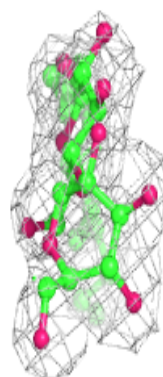
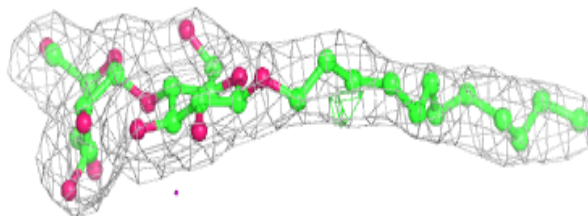
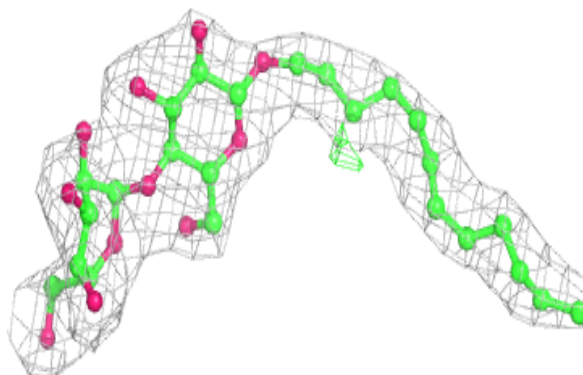


Electron density around LMT A 3047:

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

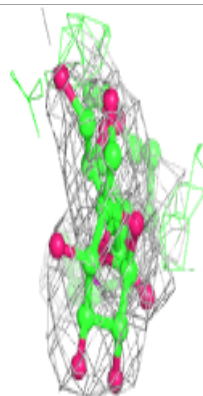
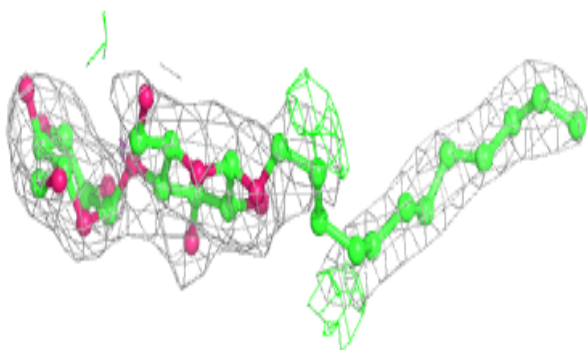
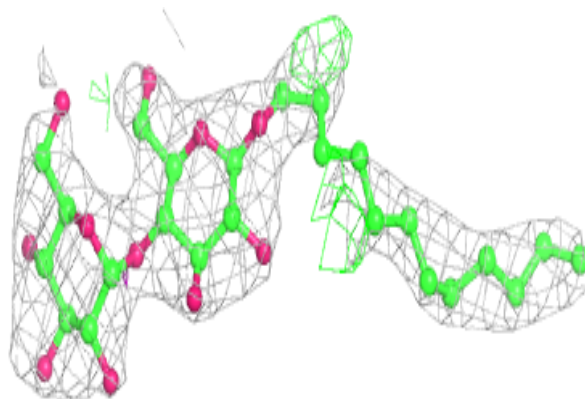
**Electron density around LMT A 3046:**

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

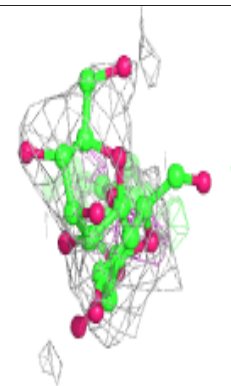
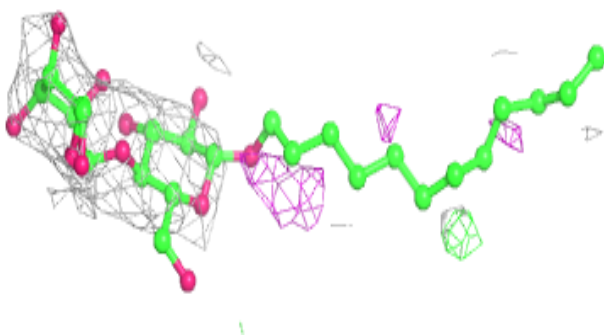
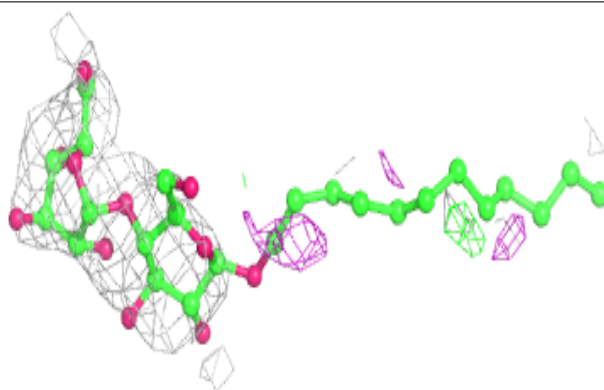


Electron density around LMT B 3035:

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

**Electron density around LMT B 3037:**

$2mF_o-DF_c$ (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.