



Full wwPDB X-ray Structure Validation Report ⓘ

Nov 13, 2023 – 10:23 PM JST

PDB ID : 5YB1
Title : Structure and function of human serum albumin-metal agent complex
Authors : Yang, F.; Wang, T.; Wang, J.; Gou, Y.; Zhang, Z.L.
Deposited on : 2017-09-02
Resolution : 2.62 Å(reported)

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/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 : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.36
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) : 2.36

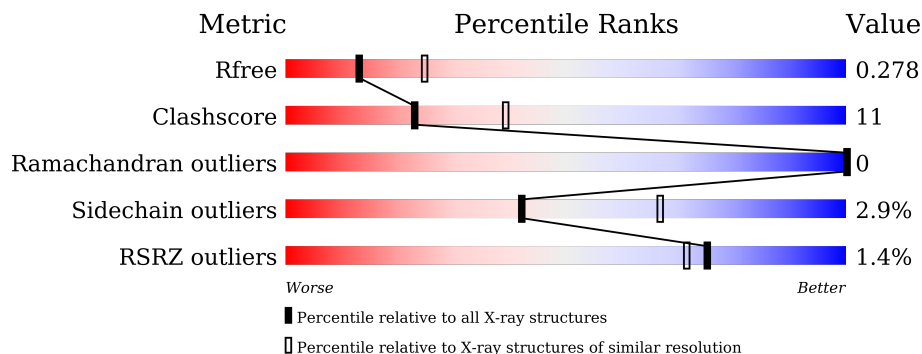
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.62 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	3797 (2.64-2.60)
Clashscore	141614	4168 (2.64-2.60)
Ramachandran outliers	138981	4093 (2.64-2.60)
Sidechain outliers	138945	4093 (2.64-2.60)
RSRZ outliers	127900	3731 (2.64-2.60)

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	581	 % 77% 22% .
1	B	581	 % 77% 22% .

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	PLM	A	601	-	-	-	X
2	PLM	A	604	-	-	X	X
2	PLM	A	607	-	-	X	X
2	PLM	B	601	-	-	-	X
2	PLM	B	604	-	-	X	X
2	PLM	B	607	-	-	X	X

2 Entry composition [i](#)

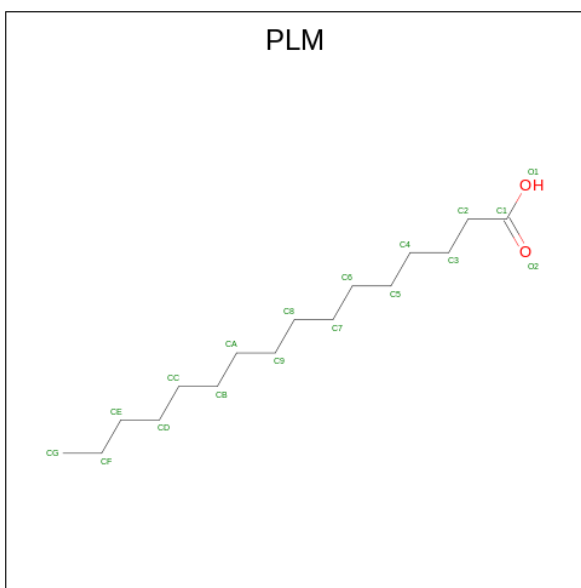
There are 4 unique types of molecules in this entry. The entry contains 9581 atoms, of which 26 are hydrogens and 0 are deuteriums.

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 Serum albumin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	581	Total 4623	C 2920	N 780	O 882	S 41	0	0	0
1	B	581	Total 4626	C 2921	N 782	O 882	S 41	0	0	0

- Molecule 2 is PALMITIC ACID (three-letter code: PLM) (formula: $C_{16}H_{32}O_2$) (labeled as "Ligand of Interest" by depositor).



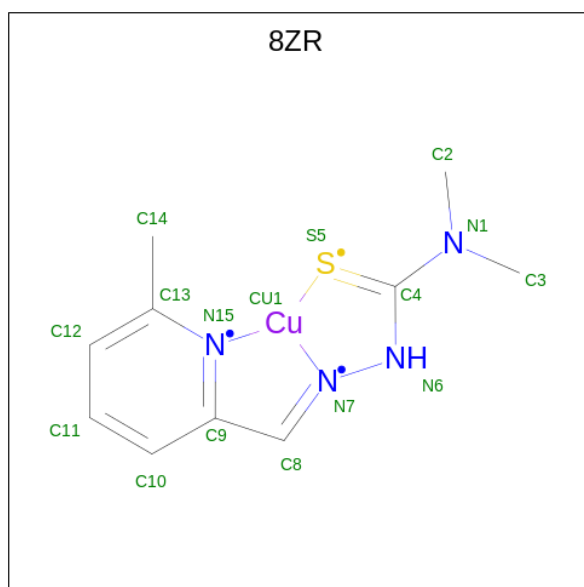
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
2	A	1	Total 13	C 11	O 2	0	0
2	A	1	Total 18	C 16	O 2	0	0
2	A	1	Total 17	C 15	O 2	0	0
2	A	1	Total 18	C 16	O 2	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			17	15	2		
2	A	1	Total	C	O	0	0
			18	16	2		
2	A	1	Total	C	O	0	0
			18	16	2		
2	B	1	Total	C	O	0	0
			13	11	2		
2	B	1	Total	C	O	0	0
			18	16	2		
2	B	1	Total	C	O	0	0
			17	15	2		
2	B	1	Total	C	O	0	0
			18	16	2		
2	B	1	Total	C	O	0	0
			17	15	2		
2	B	1	Total	C	O	0	0
			18	16	2		
2	B	1	Total	C	O	0	0
			18	16	2		

- Molecule 3 is {N}, {N},12-trimethyl-3 λ^3 -thia-1 λ^4 ,5,6 λ^4 -triazia-2 λ^3 -cupratricyclo[6.4.0.0^{2,6}]dodeca-1(8),3,6,9,11-pentaen-4-amine (three-letter code: 8ZR) (formula: C₁₀H₁₄CuN₄S) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
			Total	C	Cu	H	N			S
3	A	1	29	10	1	13	4	1	0	0
3	B	1	29	10	1	13	4	1	0	0

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	20	Total	O	0	0
			20	20		
4	B	16	Total	O	0	0
			16	16		

4 Data and refinement statistics i

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	38.49Å 95.65Å 96.64Å 104.67° 101.43° 89.97°	Depositor
Resolution (Å)	33.00 – 2.62 34.27 – 2.62	Depositor EDS
% Data completeness (in resolution range)	98.2 (33.00-2.62) 97.9 (34.27-2.62)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	10.24 (at 2.61Å)	Xtrriage
Refinement program	PHENIX (1.11.1_2575: ???)	Depositor
R, R_{free}	0.219 , 0.278 0.219 , 0.278	Depositor DCC
R_{free} test set	1948 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å ²)	57.6	Xtrriage
Anisotropy	0.216	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.29 , 24.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtrriage
Estimated twinning fraction	0.470 for h,-k,-h-l	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	9581	wwPDB-VP
Average B, all atoms (Å ²)	63.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.09% 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: PLM, 8ZR

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	0.34	0/4713	0.48	0/6357
1	B	0.33	0/4716	0.47	0/6361
All	All	0.34	0/9429	0.47	0/12718

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	4623	0	4544	104	0
1	B	4626	0	4549	103	0
2	A	119	0	194	32	0
2	B	119	0	194	28	0
3	A	16	13	0	1	0
3	B	16	13	0	1	0
4	A	20	0	0	1	0
4	B	16	0	0	0	0
All	All	9555	26	9481	217	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 11.

All (217) 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:B:73:LYS:O	1:B:76:THR:HG22	1.67	0.94
1:B:460:LEU:HD11	2:B:604:PLM:HC2	1.58	0.84
1:A:242:HIS:HE2	2:A:607:PLM:C1	2.00	0.75
1:B:138:TYR:O	1:B:142:ILE:HG12	1.87	0.75
1:A:138:TYR:O	1:A:142:ILE:HG12	1.88	0.74
2:A:607:PLM:HG1	2:A:607:PLM:O1	1.87	0.74
1:A:424:VAL:O	1:A:428:ARG:HG3	1.90	0.71
1:B:181:LYS:O	1:B:184:GLU:HG2	1.91	0.71
1:B:205:LYS:HE3	1:B:206:PHE:CZ	2.26	0.70
1:B:222:ARG:NH2	1:B:290:ILE:O	2.25	0.70
1:A:181:LYS:O	1:A:184:GLU:HG2	1.92	0.70
1:A:34:CYS:SG	4:A:712:HOH:O	2.51	0.69
2:B:607:PLM:HG1	2:B:607:PLM:O2	1.93	0.68
1:B:222:ARG:HH22	1:B:293:VAL:N	1.92	0.68
1:B:151:ALA:HB3	1:B:152:PRO:HD3	1.77	0.67
1:B:331:LEU:HG	1:B:350:ALA:HB2	1.76	0.67
1:B:114:ARG:NH1	1:B:116:VAL:HG12	2.09	0.67
1:A:331:LEU:HG	1:A:350:ALA:HB2	1.75	0.67
1:A:151:ALA:HB3	1:A:152:PRO:HD3	1.76	0.67
1:A:418:VAL:HG21	2:A:604:PLM:HD2	1.76	0.66
1:B:452:TYR:O	1:B:455:VAL:HG22	1.95	0.66
1:B:222:ARG:HH22	1:B:293:VAL:H	1.43	0.66
1:A:287:SER:HB2	2:A:607:PLM:HD2	1.79	0.65
1:A:241:VAL:HG22	1:A:256:ASP:HB3	1.79	0.65
1:A:66:LEU:HD22	2:A:602:PLM:HF2	1.79	0.64
1:B:155:LEU:HG	1:B:159:LYS:HE2	1.79	0.63
1:A:138:TYR:HB3	2:A:601:PLM:H81	1.80	0.63
1:B:205:LYS:HE3	1:B:206:PHE:CE2	2.33	0.63
1:A:287:SER:HB2	2:A:607:PLM:CD	2.29	0.63
1:B:222:ARG:NH2	1:B:293:VAL:H	1.97	0.63
1:A:400:GLU:O	1:A:404:GLN:HG3	1.99	0.63
1:B:398:LEU:HD12	1:B:403:PHE:HA	1.81	0.62
1:A:10:ARG:NH2	1:A:255:ASP:OD1	2.28	0.62
1:B:400:GLU:O	1:B:404:GLN:HG3	2.00	0.61
1:B:138:TYR:HB3	2:B:601:PLM:HA1	1.82	0.61
1:B:518:GLU:O	1:B:522:GLN:HG3	2.01	0.61
1:B:372:LYS:HB3	1:B:375:ASP:OD2	2.01	0.61
1:B:257:ARG:HE	2:B:607:PLM:HE1	1.66	0.61
1:A:426:VAL:HG22	1:A:460:LEU:HD11	1.83	0.60
1:A:242:HIS:NE2	2:A:607:PLM:O1	2.27	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:418:VAL:HG22	2:B:604:PLM:HF2	1.84	0.59
1:A:66:LEU:HB3	1:A:251:LEU:HD11	1.84	0.59
1:A:114:ARG:NH1	1:A:116:VAL:HG12	2.18	0.59
1:B:287:SER:OG	2:B:602:PLM:O1	2.16	0.59
1:A:155:LEU:HG	1:A:159:LYS:HE2	1.84	0.58
1:A:222:ARG:HH11	1:A:293:VAL:N	2.02	0.58
1:B:424:VAL:O	1:B:428:ARG:HG3	2.04	0.58
1:B:287:SER:HB2	2:B:607:PLM:HD2	1.85	0.57
1:B:224:PRO:HB3	1:B:336:ARG:HB2	1.87	0.57
2:A:603:PLM:H91	2:A:603:PLM:HD1	1.86	0.57
1:B:542:GLU:OE1	1:B:542:GLU:HA	2.04	0.57
1:A:565:GLU:OE1	1:A:565:GLU:HA	2.03	0.57
1:B:460:LEU:HG	2:B:604:PLM:HE2	1.87	0.57
1:A:401:TYR:HA	1:A:404:GLN:HE21	1.69	0.57
1:A:518:GLU:O	1:A:522:GLN:HG3	2.05	0.56
1:A:14:LEU:HD21	2:A:602:PLM:H61	1.87	0.56
1:B:20:LYS:HE3	1:B:47:THR:HG21	1.88	0.56
1:A:264:ILE:CD1	2:A:607:PLM:H91	2.36	0.56
1:A:392:CYS:O	1:A:396:GLU:HG3	2.06	0.55
1:B:416:PRO:O	1:B:534:LYS:HE2	2.05	0.55
1:A:372:LYS:HB3	1:A:375:ASP:OD2	2.07	0.55
1:B:116:VAL:O	1:B:118:PRO:HD3	2.05	0.55
1:B:378:LYS:HB3	1:B:379:PRO:HD3	1.88	0.55
1:A:138:TYR:CB	2:A:601:PLM:H81	2.37	0.55
1:B:257:ARG:NH1	2:B:602:PLM:O1	2.40	0.55
1:A:411:TYR:HE2	1:A:430:LEU:HD23	1.71	0.54
1:A:146:HIS:HB3	1:A:149:PHE:HB2	1.88	0.54
1:A:430:LEU:HD13	1:A:456:VAL:HG11	1.89	0.54
1:A:452:TYR:O	1:A:455:VAL:HG22	2.07	0.54
1:B:66:LEU:HB3	1:B:251:LEU:HD11	1.90	0.54
1:B:184:GLU:HG3	1:B:185:LEU:N	2.21	0.54
1:B:222:ARG:NH2	1:B:293:VAL:N	2.53	0.54
1:A:224:PRO:HD2	1:A:296:ASP:HB3	1.90	0.53
1:A:116:VAL:O	1:A:118:PRO:HD3	2.08	0.53
1:B:464:HIS:HD2	2:B:604:PLM:HG1	1.73	0.53
1:A:410:ARG:HG2	1:A:411:TYR:N	2.25	0.52
1:A:464:HIS:HB2	2:A:604:PLM:HG3	1.92	0.52
1:B:186:ARG:NH2	1:B:187:ASP:OD1	2.43	0.52
1:B:10:ARG:NH2	1:B:255:ASP:OD1	2.36	0.52
1:A:20:LYS:HE3	1:A:47:THR:HG21	1.92	0.52
1:A:416:PRO:O	1:A:534:LYS:HE2	2.10	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:441:PRO:O	1:A:445:ARG:HG3	2.11	0.51
1:A:410:ARG:O	1:A:414:LYS:HG3	2.10	0.51
1:B:418:VAL:CG2	2:B:604:PLM:HF2	2.40	0.51
1:B:521:ARG:HG2	1:B:525:LYS:HE3	1.93	0.51
1:A:479:GLU:HG3	1:A:480:SER:H	1.76	0.50
1:A:184:GLU:HG3	1:A:185:LEU:N	2.24	0.50
1:A:384:PRO:O	1:A:388:ILE:HG13	2.12	0.50
1:B:146:HIS:HB3	1:B:149:PHE:HB2	1.92	0.50
1:A:428:ARG:HD2	1:A:526:GLN:OE1	2.11	0.50
1:A:260:LEU:HD23	2:A:607:PLM:HC2	1.94	0.50
1:A:161:TYR:CD1	2:A:601:PLM:H71	2.46	0.50
1:A:367:HIS:HA	1:A:370:TYR:CZ	2.46	0.50
1:B:460:LEU:CD2	2:B:604:PLM:HE2	2.42	0.49
1:B:5:SER:HB3	1:B:8:ALA:HB3	1.94	0.49
1:B:208:GLU:HG2	1:B:239:THR:HG21	1.94	0.49
1:B:257:ARG:NE	2:B:607:PLM:HE1	2.28	0.49
1:B:473:VAL:HG11	2:B:604:PLM:HF1	1.94	0.48
1:A:137:LYS:O	1:A:141:GLU:HG2	2.14	0.48
1:B:216:VAL:HG22	1:B:235:VAL:HG21	1.95	0.48
1:A:453:LEU:HD21	2:A:603:PLM:H92	1.96	0.48
1:B:365:ASP:OD2	1:B:368:GLU:HG2	2.12	0.48
1:A:464:HIS:HB2	2:A:604:PLM:CG	2.43	0.48
1:B:48:GLU:O	1:B:52:THR:HG23	2.14	0.48
2:B:607:PLM:H61	2:B:607:PLM:H22	1.94	0.48
2:A:603:PLM:H81	2:A:604:PLM:H21	1.95	0.48
1:B:241:VAL:HG22	1:B:256:ASP:HB3	1.96	0.48
1:B:264:ILE:CD1	2:B:607:PLM:H91	2.44	0.48
1:A:411:TYR:CE2	1:A:430:LEU:HD23	2.49	0.48
1:A:30:TYR:CZ	1:A:106:LYS:HE3	2.50	0.47
1:A:383:GLU:HB3	1:A:384:PRO:CD	2.44	0.47
1:A:407:LEU:HD13	1:A:430:LEU:HB3	1.95	0.47
1:B:214:TRP:CD1	1:B:343:VAL:HG11	2.49	0.47
1:B:464:HIS:CD2	2:B:604:PLM:HG1	2.49	0.47
1:B:565:GLU:OE1	1:B:565:GLU:HA	2.15	0.47
1:A:138:TYR:CE1	2:A:601:PLM:H42	2.50	0.47
1:B:384:PRO:O	1:B:388:ILE:HG13	2.14	0.47
1:B:479:GLU:HG3	1:B:480:SER:H	1.80	0.47
1:A:467:THR:O	1:A:467:THR:OG1	2.26	0.47
1:B:30:TYR:CZ	1:B:106:LYS:HE3	2.49	0.47
1:B:331:LEU:HG	1:B:350:ALA:CB	2.45	0.47
1:A:203:LEU:HD23	1:A:203:LEU:O	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:224:PRO:HD2	1:B:296:ASP:HB3	1.97	0.47
1:A:460:LEU:HD23	2:A:604:PLM:HC2	1.96	0.47
1:B:313:LYS:O	1:B:314:ASP:HB2	2.15	0.47
1:A:313:LYS:O	1:A:314:ASP:HB2	2.15	0.46
1:B:460:LEU:HD11	2:B:604:PLM:H91	1.97	0.46
2:A:607:PLM:CB	2:A:607:PLM:HF1	2.45	0.46
1:A:66:LEU:HD23	1:A:66:LEU:HA	1.72	0.46
1:A:225:LYS:HG2	1:A:299:PRO:HG3	1.98	0.46
1:A:383:GLU:HB3	1:A:384:PRO:HD3	1.97	0.46
1:B:556:GLU:O	1:B:556:GLU:HG2	2.16	0.46
1:A:225:LYS:HE3	1:A:297:GLU:O	2.15	0.46
1:B:225:LYS:HE3	1:B:297:GLU:O	2.15	0.46
1:B:287:SER:HB2	2:B:607:PLM:CD	2.46	0.46
1:A:95:GLU:O	1:A:95:GLU:OE1	2.34	0.46
1:B:367:HIS:HA	1:B:370:TYR:CZ	2.51	0.46
1:B:460:LEU:CG	2:B:604:PLM:HE2	2.45	0.45
1:B:149:PHE:CD2	1:B:154:LEU:HD13	2.50	0.45
1:B:460:LEU:HD21	2:B:604:PLM:HE2	1.98	0.45
1:A:242:HIS:NE2	2:A:607:PLM:C1	2.76	0.45
1:B:111:ASN:O	1:B:111:ASN:ND2	2.42	0.45
1:B:161:TYR:CG	2:B:601:PLM:H91	2.51	0.45
1:B:189:GLY:HA3	3:B:608:8ZR:C11	2.47	0.45
1:B:327:LEU:HD11	1:B:354:GLU:HG3	1.98	0.45
1:A:49:PHE:O	1:A:52:THR:HB	2.16	0.45
1:B:539:ALA:CB	1:B:544:LEU:HD13	2.47	0.45
1:A:4:LYS:HA	1:A:4:LYS:HD3	1.60	0.45
1:B:10:ARG:HG3	1:B:66:LEU:HD11	1.98	0.45
1:A:222:ARG:NH1	1:A:291:ALA:O	2.51	0.44
1:B:264:ILE:HD13	2:B:607:PLM:H91	2.00	0.44
1:B:441:PRO:O	1:B:445:ARG:HG3	2.18	0.44
1:B:539:ALA:HB1	1:B:544:LEU:HD13	1.99	0.44
1:A:529:LEU:HB2	2:A:605:PLM:H61	2.00	0.43
1:B:441:PRO:HG2	1:B:444:LYS:HE3	2.00	0.43
1:A:231:VAL:O	1:A:235:VAL:HG23	2.18	0.43
1:A:264:ILE:HD13	2:A:607:PLM:H91	1.99	0.43
2:A:603:PLM:HA1	2:A:604:PLM:H21	2.00	0.43
1:A:5:SER:HB3	1:A:8:ALA:HB3	2.01	0.43
1:A:149:PHE:CD2	1:A:154:LEU:HD13	2.53	0.43
1:B:178:LEU:HG	1:B:182:LEU:HG	2.00	0.43
1:A:222:ARG:NH1	1:A:293:VAL:O	2.51	0.43
1:A:132:GLU:O	1:A:136:LYS:HG2	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:242:HIS:NE2	2:A:607:PLM:O2	2.52	0.43
2:A:603:PLM:HD1	2:A:603:PLM:C9	2.49	0.43
1:B:485:ARG:HB3	1:B:486:PRO:HD3	2.00	0.43
1:B:512:ASP:OD1	1:B:513:ILE:N	2.52	0.43
1:A:519:LYS:HE3	1:A:519:LYS:HB2	1.90	0.42
1:A:36:PHE:CE2	1:A:40:VAL:HG21	2.54	0.42
1:A:454:SER:O	1:A:458:ASN:HB2	2.19	0.42
1:B:305:LEU:HD11	1:B:337:ARG:HD2	2.01	0.42
1:B:383:GLU:HB3	1:B:384:PRO:HD3	2.00	0.42
1:B:387:LEU:HD23	1:B:387:LEU:HA	1.78	0.42
1:A:387:LEU:HD23	1:A:387:LEU:HA	1.85	0.42
1:A:479:GLU:HG3	1:A:480:SER:N	2.34	0.42
1:B:383:GLU:HB3	1:B:384:PRO:CD	2.49	0.42
1:B:453:LEU:HD12	1:B:453:LEU:HA	1.80	0.42
1:A:145:ARG:HD3	3:A:608:8ZR:C3	2.49	0.42
1:A:186:ARG:HG2	1:A:190:LYS:NZ	2.35	0.42
1:B:130:ASN:OD1	1:B:133:THR:HG23	2.20	0.42
1:A:459:GLN:O	1:A:462:VAL:HG22	2.20	0.42
1:A:23:VAL:HG12	1:A:43:VAL:HG22	2.01	0.42
1:A:411:TYR:OH	2:A:604:PLM:O1	2.26	0.42
1:A:539:ALA:CB	1:A:544:LEU:HD13	2.50	0.42
1:B:114:ARG:HH12	1:B:116:VAL:HG12	1.82	0.42
1:B:260:LEU:HD23	2:B:607:PLM:HC2	2.02	0.42
1:A:130:ASN:OD1	1:A:133:THR:HG23	2.20	0.41
1:B:115:LEU:HD23	1:B:115:LEU:HA	1.94	0.41
2:B:603:PLM:H81	2:B:604:PLM:H22	2.02	0.41
1:A:365:ASP:OD2	1:A:368:GLU:HG2	2.20	0.41
1:A:513:ILE:HD12	1:A:524:LYS:HD2	2.03	0.41
1:B:519:LYS:HE3	1:B:519:LYS:HB2	1.84	0.41
1:A:457:LEU:HD21	2:A:604:PLM:H51	2.03	0.41
1:B:373:VAL:HG13	1:B:374:PHE:HD1	1.86	0.41
1:B:408:LEU:HG	1:B:530:VAL:HG22	2.02	0.41
1:B:95:GLU:N	1:B:96:PRO:HD2	2.36	0.41
1:B:173:ASP:OD2	1:B:176:ALA:HB2	2.19	0.41
1:B:161:TYR:CD1	2:B:601:PLM:H72	2.56	0.41
1:B:222:ARG:HD3	1:B:223:PHE:CZ	2.56	0.41
1:B:418:VAL:HG21	2:B:604:PLM:HD2	2.02	0.41
1:A:287:SER:HB2	2:A:607:PLM:HD1	2.03	0.41
1:B:513:ILE:HG12	1:B:521:ARG:HG3	2.03	0.41
1:B:66:LEU:HD22	2:B:602:PLM:HF2	2.03	0.41
1:A:10:ARG:HG3	1:A:66:LEU:HD11	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:185:LEU:HA	1:A:185:LEU:HD23	1.78	0.40
1:A:203:LEU:HD23	1:A:203:LEU:C	2.42	0.40
1:A:398:LEU:HB3	1:A:402:LYS:HB2	2.03	0.40
1:A:426:VAL:CG2	1:A:460:LEU:HD11	2.51	0.40
1:A:462:VAL:HG23	1:A:463:LEU:N	2.36	0.40
1:A:417:GLN:CB	1:A:469:VAL:HG13	2.51	0.40
1:B:95:GLU:OE1	1:B:98:ARG:NH2	2.52	0.40
2:A:603:PLM:H81	2:A:604:PLM:C2	2.51	0.40
1:B:150:TYR:CE2	1:B:152:PRO:HD2	2.56	0.40
1:A:29:GLN:HG2	1:A:147:PRO:HA	2.04	0.40
1:A:420:THR:N	1:A:421:PRO:HD2	2.36	0.40
1:A:408:LEU:HD13	1:A:427:SER:HB2	2.04	0.40
1:A:460:LEU:CD2	2:A:604:PLM:HC2	2.52	0.40

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	579/581 (100%)	564 (97%)	15 (3%)	0	100	100
1	B	579/581 (100%)	562 (97%)	17 (3%)	0	100	100
All	All	1158/1162 (100%)	1126 (97%)	32 (3%)	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	508/509 (100%)	494 (97%)	14 (3%)	43	68
1	B	509/509 (100%)	493 (97%)	16 (3%)	40	65
All	All	1017/1018 (100%)	987 (97%)	30 (3%)	42	67

All (30) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	3	HIS
1	A	7	VAL
1	A	14	LEU
1	A	83	THR
1	A	95	GLU
1	A	114	ARG
1	A	140	TYR
1	A	334	TYR
1	A	410	ARG
1	A	428	ARG
1	A	430	LEU
1	A	467	THR
1	A	469	VAL
1	A	544	LEU
1	B	4	LYS
1	B	7	VAL
1	B	14	LEU
1	B	83	THR
1	B	111	ASN
1	B	140	TYR
1	B	238	LEU
1	B	242	HIS
1	B	293	VAL
1	B	298	MET
1	B	313	LYS
1	B	334	TYR
1	B	398	LEU
1	B	453	LEU
1	B	469	VAL
1	B	544	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	404	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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

16 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# $ Z > 2$	Counts	RMSZ	# $ Z > 2$
2	PLM	A	606	-	17,17,17	0.64	0	17,17,17	0.70	0
2	PLM	A	603	-	16,16,17	0.54	0	16,16,17	0.87	1 (6%)
2	PLM	A	607	-	17,17,17	0.62	0	17,17,17	0.84	1 (5%)
2	PLM	B	606	-	17,17,17	0.64	0	17,17,17	0.66	0
2	PLM	A	605	-	16,16,17	0.60	0	16,16,17	0.88	1 (6%)
2	PLM	B	604	-	17,17,17	0.59	0	17,17,17	0.72	0
3	8ZR	A	608	1	14,18,18	4.50	6 (42%)	16,27,27	3.70	4 (25%)
2	PLM	B	603	-	16,16,17	0.57	0	16,16,17	0.83	0
2	PLM	B	605	-	16,16,17	0.67	0	16,16,17	0.72	0
2	PLM	B	607	-	17,17,17	0.60	0	17,17,17	0.81	0
3	8ZR	B	608	1	14,18,18	4.44	6 (42%)	16,27,27	3.77	4 (25%)
2	PLM	A	604	-	17,17,17	0.56	0	17,17,17	0.80	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	PLM	B	602	-	17,17,17	0.56	0	17,17,17	0.87	1 (5%)
2	PLM	A	601	-	12,12,17	0.69	0	12,12,17	0.83	0
2	PLM	A	602	-	17,17,17	0.57	0	17,17,17	0.85	1 (5%)
2	PLM	B	601	-	12,12,17	0.65	0	12,12,17	0.78	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
2	PLM	A	606	-	-	8/15/15/15	-
2	PLM	A	603	-	-	7/14/14/15	-
2	PLM	A	607	-	-	11/15/15/15	-
2	PLM	B	606	-	-	4/15/15/15	-
2	PLM	A	605	-	-	9/14/14/15	-
2	PLM	B	604	-	-	7/15/15/15	-
3	8ZR	A	608	1	-	4/4/38/38	0/3/3/3
2	PLM	B	603	-	-	8/14/14/15	-
2	PLM	B	605	-	-	7/14/14/15	-
2	PLM	B	607	-	-	12/15/15/15	-
3	8ZR	B	608	1	-	4/4/38/38	0/3/3/3
2	PLM	A	604	-	-	7/15/15/15	-
2	PLM	B	602	-	-	6/15/15/15	-
2	PLM	A	601	-	-	4/10/10/15	-
2	PLM	A	602	-	-	7/15/15/15	-
2	PLM	B	601	-	-	8/10/10/15	-

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	608	8ZR	C4-N1	14.08	1.47	1.33
3	B	608	8ZR	C4-N1	13.57	1.47	1.33
3	B	608	8ZR	C4-S5	-5.19	1.65	1.70
3	B	608	8ZR	C4-N6	-5.17	1.26	1.35
3	A	608	8ZR	C4-N6	-5.15	1.26	1.35
3	B	608	8ZR	N6-N7	4.76	1.39	1.36
3	A	608	8ZR	N6-N7	4.75	1.39	1.36

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	608	8ZR	C4-S5	-4.59	1.66	1.70
3	A	608	8ZR	C9-C8	-2.28	1.40	1.46
3	B	608	8ZR	C14-C13	2.20	1.54	1.49
3	B	608	8ZR	C9-C8	-2.18	1.40	1.46
3	A	608	8ZR	C14-C13	2.02	1.54	1.49

All (13) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	608	8ZR	S5-C4-N6	-11.17	106.58	121.06
3	B	608	8ZR	S5-C4-N6	-10.72	107.17	121.06
3	B	608	8ZR	N6-C4-N1	8.91	126.81	116.55
3	A	608	8ZR	N6-C4-N1	8.07	125.84	116.55
3	B	608	8ZR	C8-C9-N15	3.05	123.05	115.37
3	A	608	8ZR	C8-C9-N15	2.97	122.85	115.37
3	A	608	8ZR	C10-C9-C8	-2.61	116.25	122.60
3	B	608	8ZR	C10-C9-C8	-2.53	116.44	122.60
2	A	605	PLM	O1-C1-C2	2.24	121.24	114.03
2	A	602	PLM	O1-C1-C2	2.16	120.97	114.03
2	A	607	PLM	O1-C1-C2	2.08	120.71	114.03
2	B	602	PLM	O1-C1-C2	2.05	120.61	114.03
2	A	603	PLM	O1-C1-C2	2.01	120.49	114.03

There are no chirality outliers.

All (113) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	608	8ZR	N6-C4-N1-C2
3	A	608	8ZR	N6-C4-N1-C3
3	A	608	8ZR	S5-C4-N1-C2
3	A	608	8ZR	S5-C4-N1-C3
3	B	608	8ZR	N6-C4-N1-C2
3	B	608	8ZR	N6-C4-N1-C3
3	B	608	8ZR	S5-C4-N1-C2
3	B	608	8ZR	S5-C4-N1-C3
2	A	602	PLM	CC-CD-CE-CF
2	B	604	PLM	C1-C2-C3-C4
2	A	602	PLM	C1-C2-C3-C4
2	A	601	PLM	C1-C2-C3-C4
2	B	602	PLM	C1-C2-C3-C4
2	B	605	PLM	C1-C2-C3-C4
2	A	607	PLM	C6-C7-C8-C9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
2	A	602	PLM	C6-C7-C8-C9
2	A	602	PLM	C9-CA-CB-CC
2	A	607	PLM	C7-C8-C9-CA
2	B	604	PLM	C2-C3-C4-C5
2	B	605	PLM	CB-CC-CD-CE
2	B	607	PLM	C7-C8-C9-CA
2	A	602	PLM	C7-C8-C9-CA
2	A	605	PLM	C6-C7-C8-C9
2	B	602	PLM	CA-CB-CC-CD
2	B	601	PLM	C4-C5-C6-C7
2	A	604	PLM	C4-C5-C6-C7
2	B	607	PLM	CA-CB-CC-CD
2	A	607	PLM	CA-CB-CC-CD
2	B	607	PLM	C6-C7-C8-C9
2	A	605	PLM	CA-CB-CC-CD
2	A	605	PLM	C9-CA-CB-CC
2	B	601	PLM	C1-C2-C3-C4
2	A	606	PLM	C2-C3-C4-C5
2	B	603	PLM	CA-CB-CC-CD
2	A	605	PLM	C8-C9-CA-CB
2	A	606	PLM	C6-C7-C8-C9
2	B	605	PLM	C6-C7-C8-C9
2	B	606	PLM	CC-CD-CE-CF
2	B	601	PLM	C3-C4-C5-C6
2	B	602	PLM	C9-CA-CB-CC
2	B	603	PLM	CB-CC-CD-CE
2	B	606	PLM	C5-C6-C7-C8
2	A	606	PLM	CC-CD-CE-CF
2	B	601	PLM	C5-C6-C7-C8
2	A	601	PLM	C2-C3-C4-C5
2	A	605	PLM	C2-C3-C4-C5
2	B	607	PLM	C9-CA-CB-CC
2	A	607	PLM	C9-CA-CB-CC
2	A	602	PLM	CA-CB-CC-CD
2	A	606	PLM	C1-C2-C3-C4
2	B	604	PLM	C3-C4-C5-C6
2	B	604	PLM	C7-C8-C9-CA
2	B	607	PLM	CB-CC-CD-CE
2	B	604	PLM	CA-CB-CC-CD
2	B	607	PLM	C5-C6-C7-C8
2	A	607	PLM	CB-CC-CD-CE
2	B	603	PLM	C4-C5-C6-C7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
2	A	606	PLM	C5-C6-C7-C8
2	A	603	PLM	C3-C4-C5-C6
2	A	607	PLM	C2-C3-C4-C5
2	B	603	PLM	C6-C7-C8-C9
2	B	607	PLM	C2-C3-C4-C5
2	A	607	PLM	C5-C6-C7-C8
2	B	602	PLM	CC-CD-CE-CF
2	B	606	PLM	C9-CA-CB-CC
2	A	603	PLM	C4-C5-C6-C7
2	A	605	PLM	C5-C6-C7-C8
2	B	607	PLM	C3-C4-C5-C6
2	A	607	PLM	C8-C9-CA-CB
2	B	602	PLM	C2-C3-C4-C5
2	A	604	PLM	C7-C8-C9-CA
2	A	603	PLM	CB-CC-CD-CE
2	B	605	PLM	CC-CD-CE-CF
2	B	601	PLM	C2-C3-C4-C5
2	B	603	PLM	C3-C4-C5-C6
2	B	606	PLM	C6-C7-C8-C9
2	A	601	PLM	C8-C9-CA-CB
2	A	606	PLM	C3-C4-C5-C6
2	A	605	PLM	CB-CC-CD-CE
2	B	603	PLM	CC-CD-CE-CF
2	A	607	PLM	C3-C4-C5-C6
2	A	604	PLM	CA-CB-CC-CD
2	A	603	PLM	CA-CB-CC-CD
2	A	604	PLM	O1-C1-C2-C3
2	B	604	PLM	O2-C1-C2-C3
2	B	602	PLM	C7-C8-C9-CA
2	A	606	PLM	O2-C1-C2-C3
2	A	605	PLM	O2-C1-C2-C3
2	A	607	PLM	O1-C1-C2-C3
2	A	606	PLM	O1-C1-C2-C3
2	B	604	PLM	O1-C1-C2-C3
2	A	604	PLM	C8-C9-CA-CB
2	A	604	PLM	C9-CA-CB-CC
2	A	607	PLM	O2-C1-C2-C3
2	B	605	PLM	O2-C1-C2-C3
2	B	603	PLM	O1-C1-C2-C3
2	A	602	PLM	C4-C5-C6-C7
2	A	604	PLM	O2-C1-C2-C3
2	A	605	PLM	O1-C1-C2-C3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
2	B	603	PLM	O2-C1-C2-C3
2	B	605	PLM	O1-C1-C2-C3
2	B	607	PLM	O1-C1-C2-C3
2	B	607	PLM	O2-C1-C2-C3
2	B	607	PLM	C1-C2-C3-C4
2	A	603	PLM	O1-C1-C2-C3
2	B	601	PLM	O1-C1-C2-C3
2	A	603	PLM	O2-C1-C2-C3
2	B	601	PLM	O2-C1-C2-C3
2	B	607	PLM	C8-C9-CA-CB
2	B	605	PLM	CA-CB-CC-CD
2	A	603	PLM	C5-C6-C7-C8
2	A	601	PLM	C4-C5-C6-C7
2	B	601	PLM	C6-C7-C8-C9

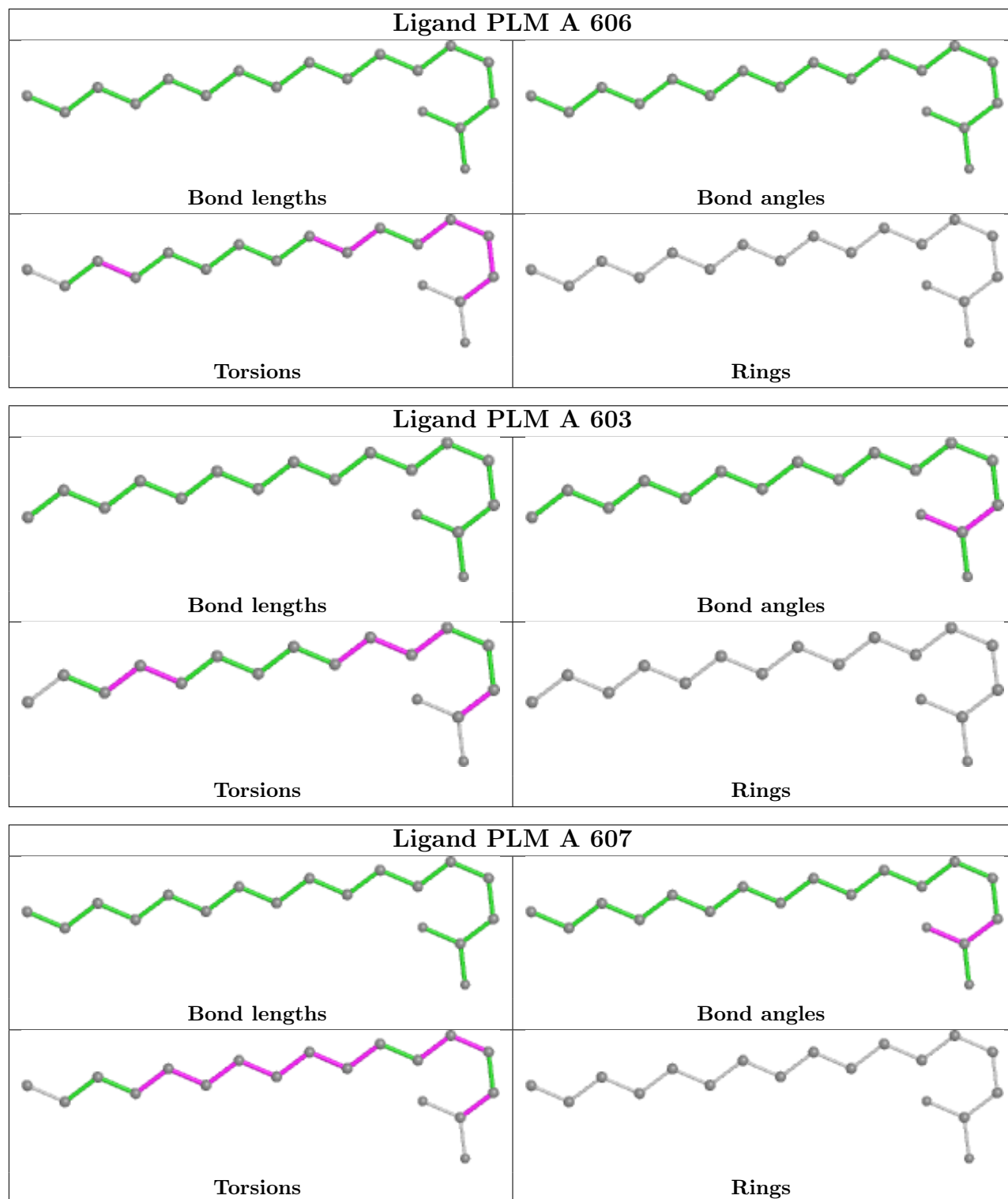
There are no ring outliers.

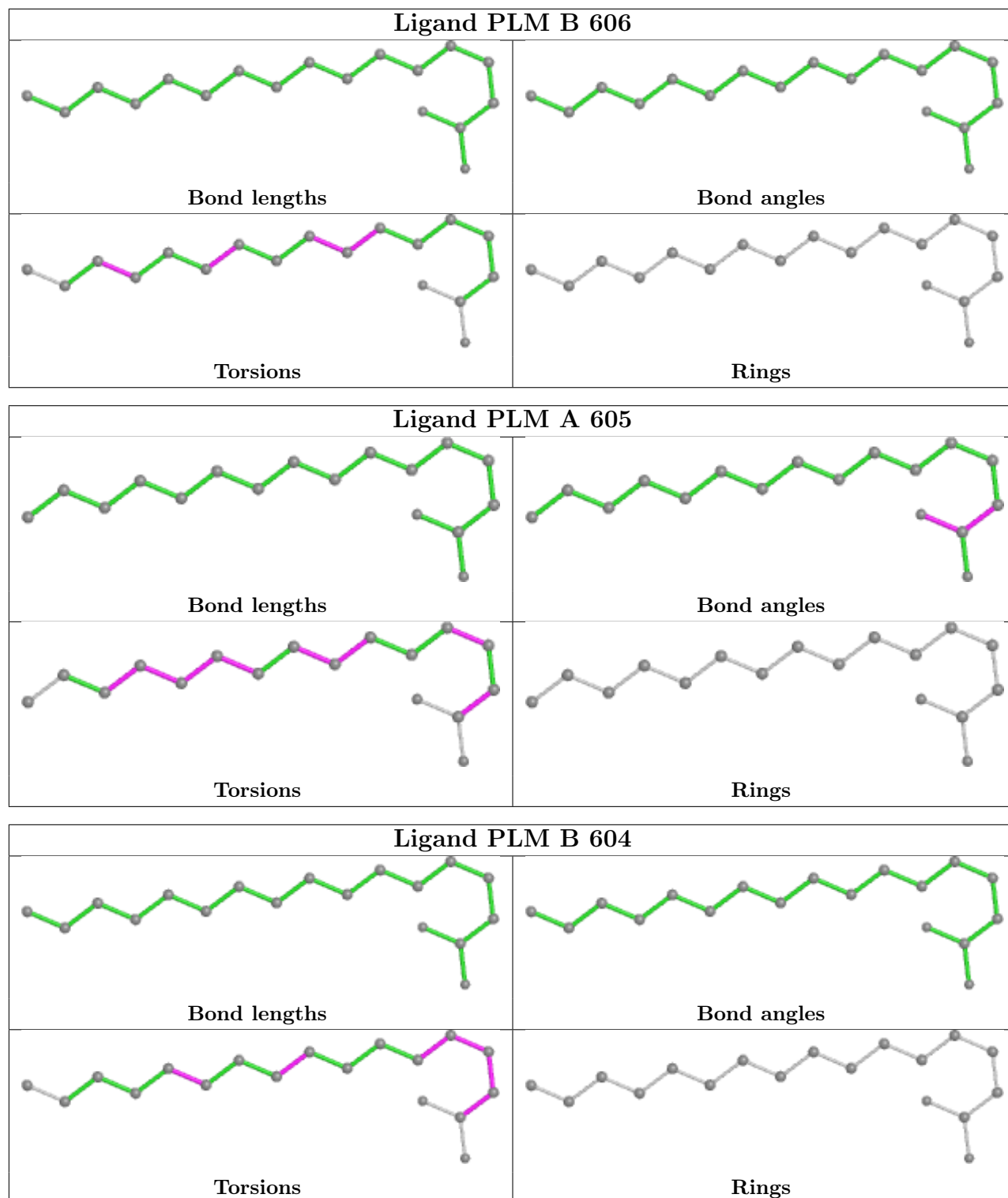
13 monomers are involved in 62 short contacts:

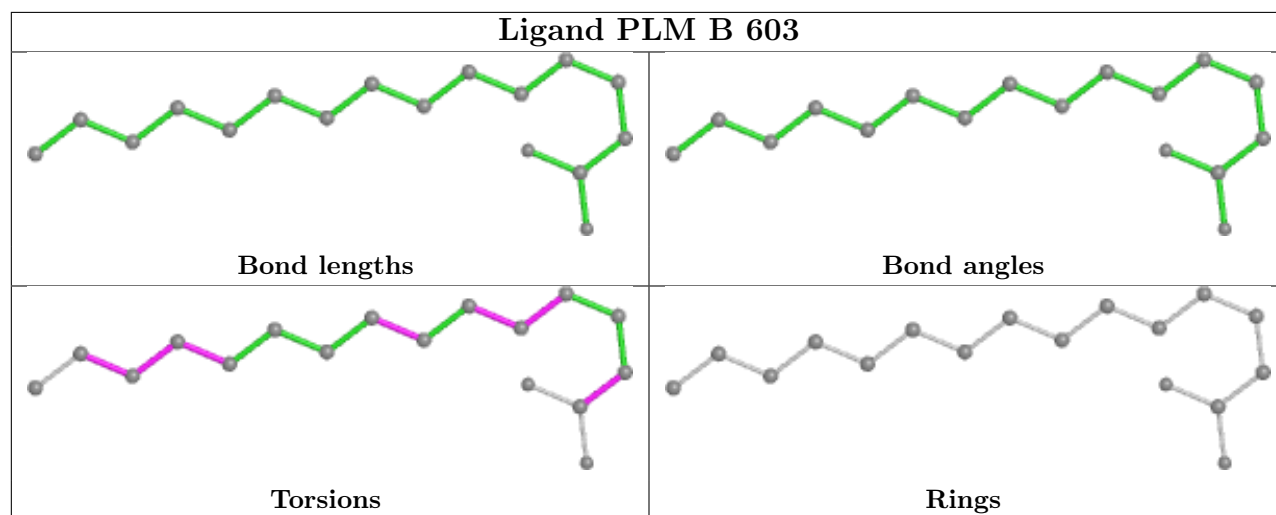
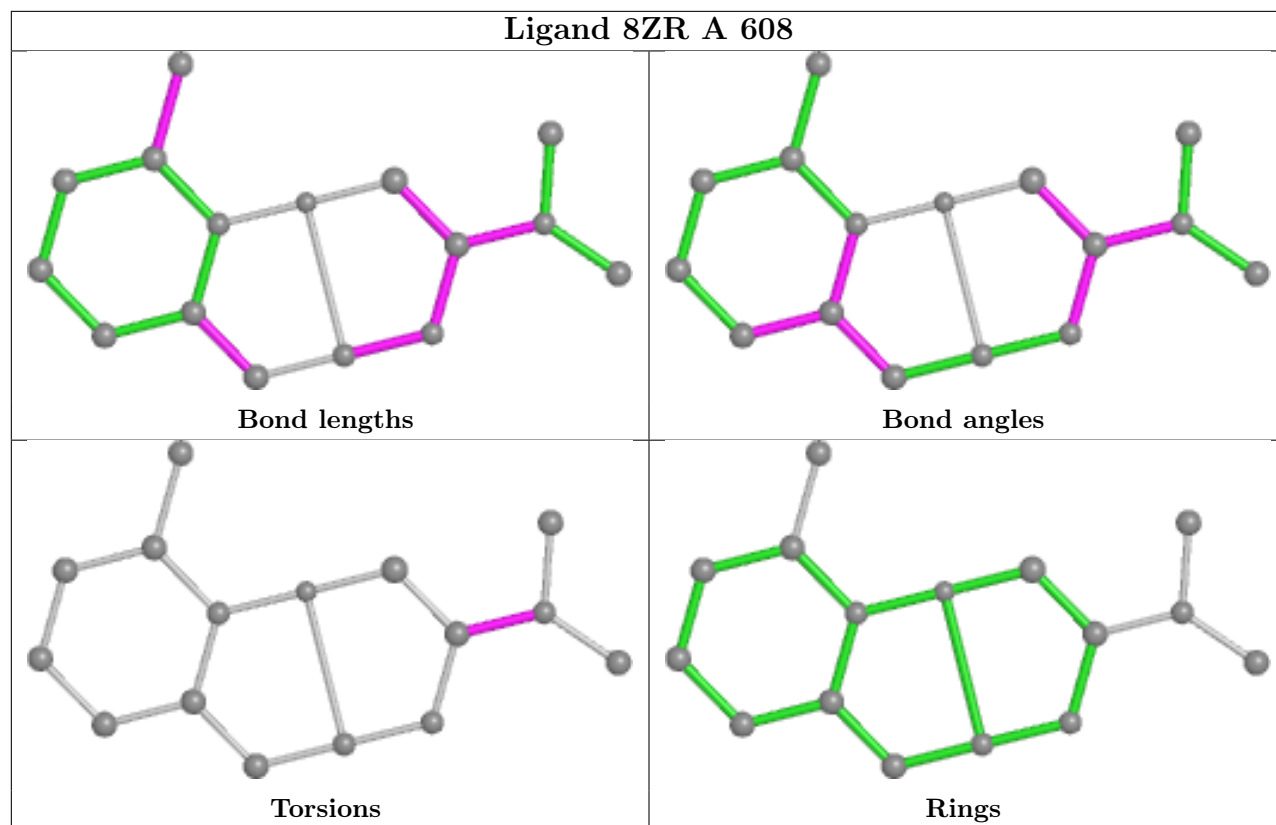
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	603	PLM	6	0
2	A	607	PLM	12	0
2	A	605	PLM	1	0
2	B	604	PLM	13	0
3	A	608	8ZR	1	0
2	B	603	PLM	1	0
2	B	607	PLM	9	0
3	B	608	8ZR	1	0
2	A	604	PLM	10	0
2	B	602	PLM	3	0
2	A	601	PLM	4	0
2	A	602	PLM	2	0
2	B	601	PLM	3	0

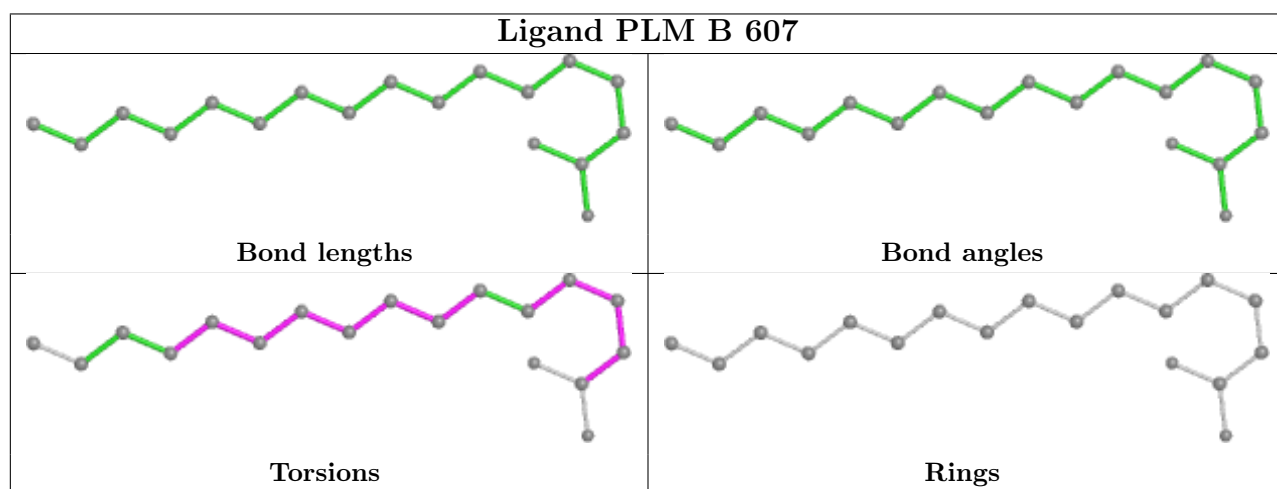
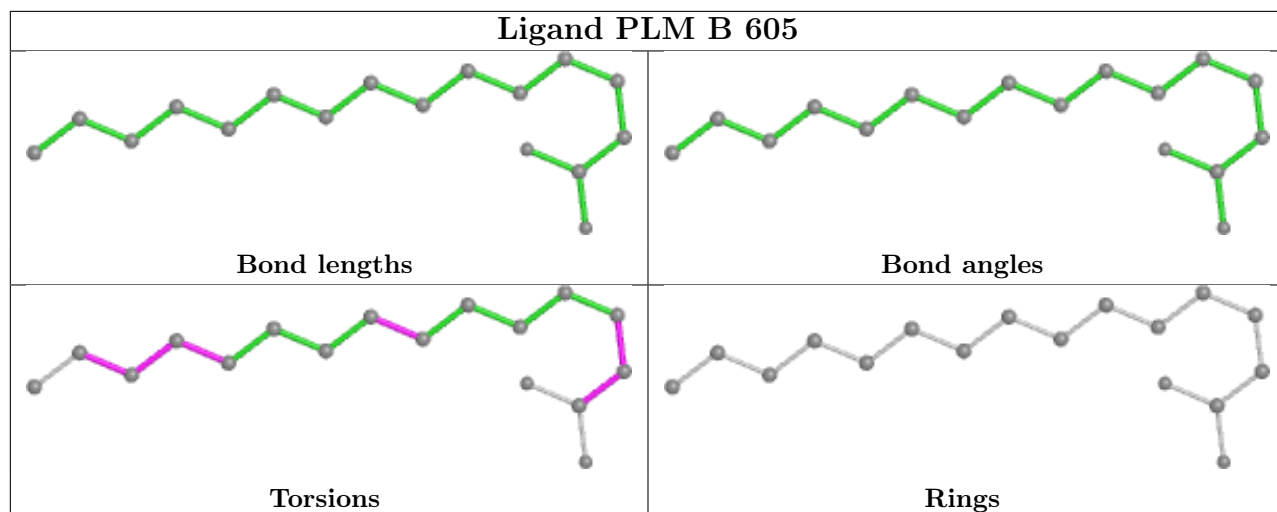
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

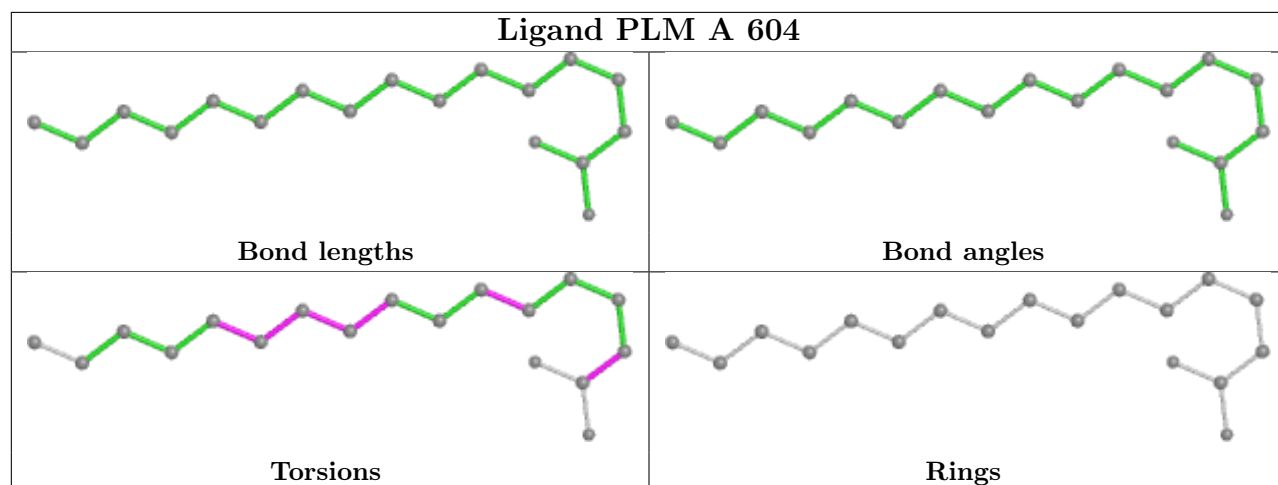
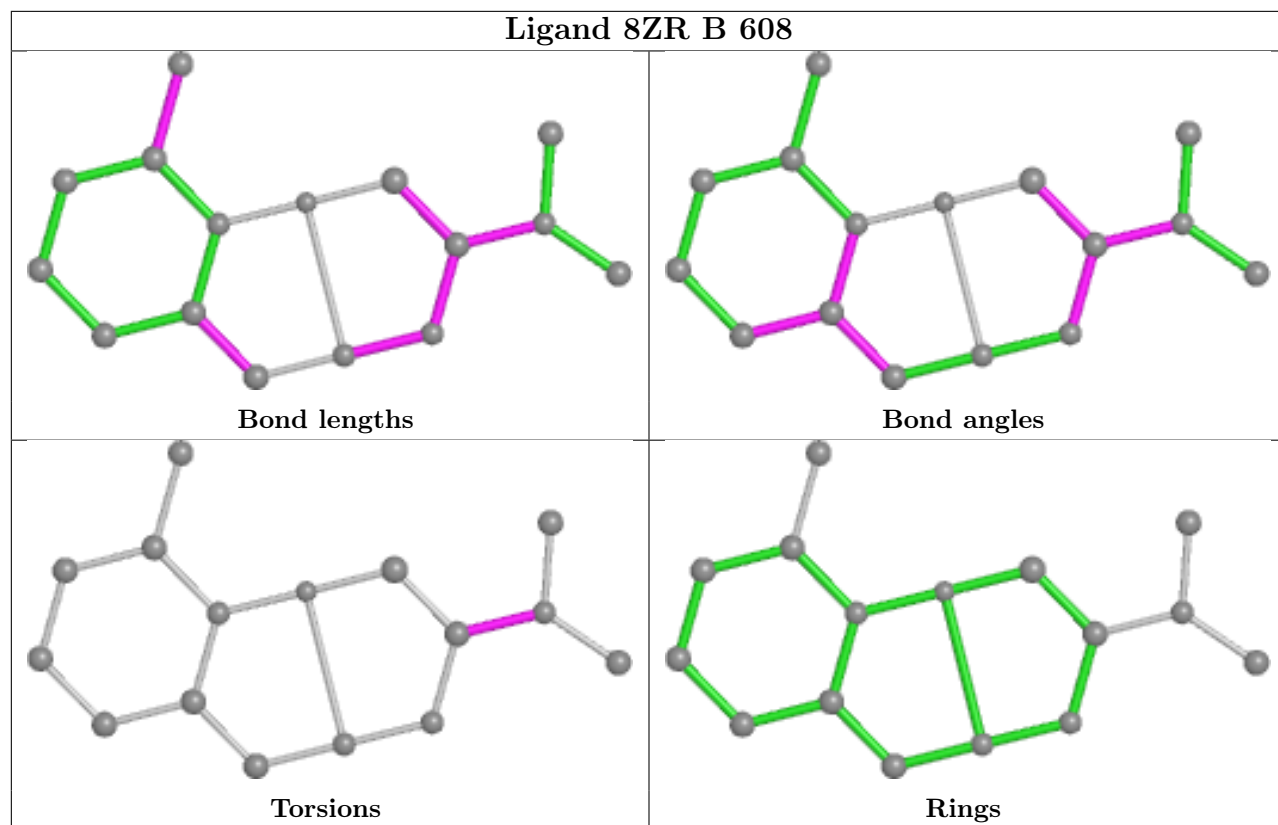
any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

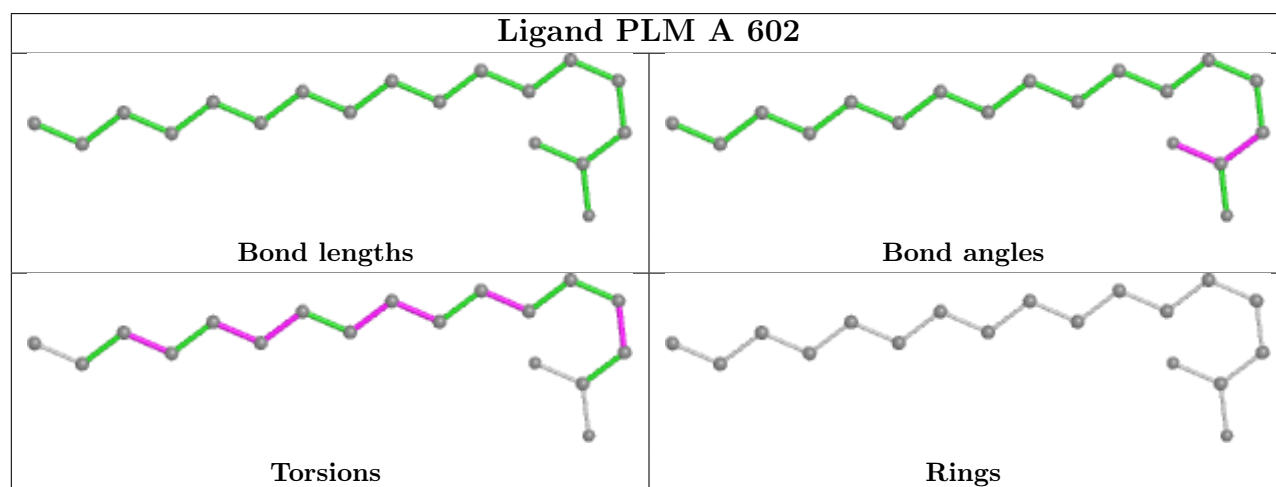
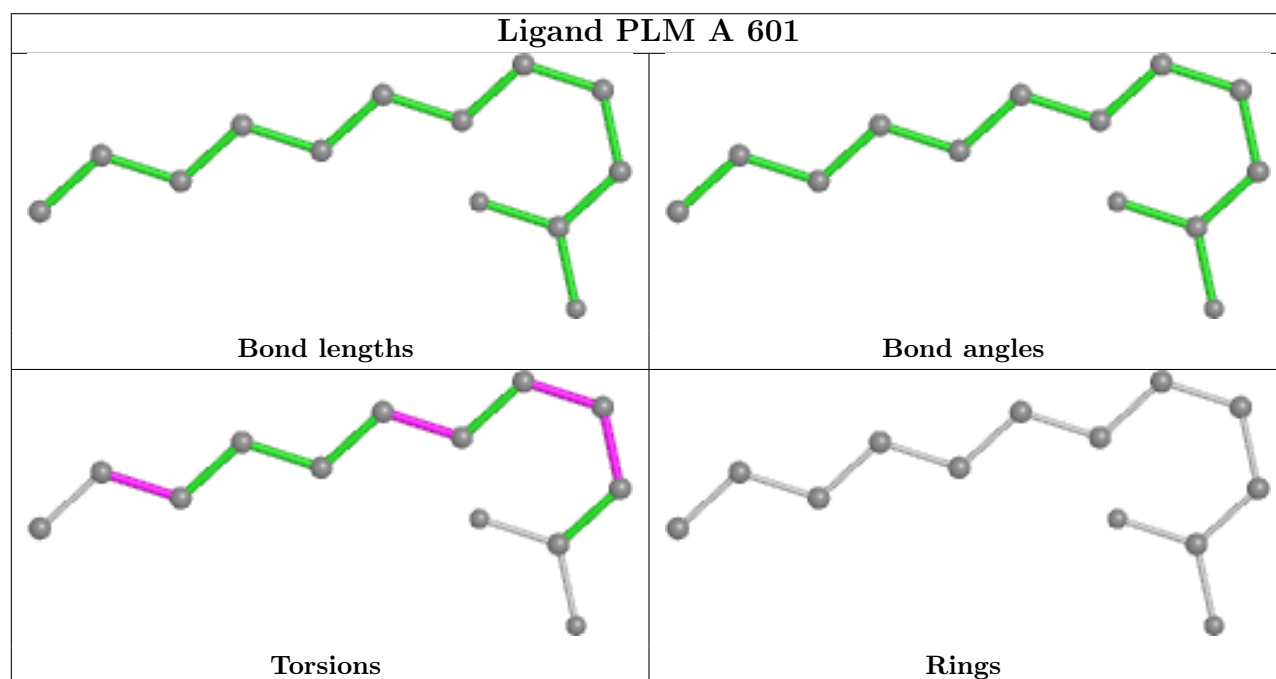
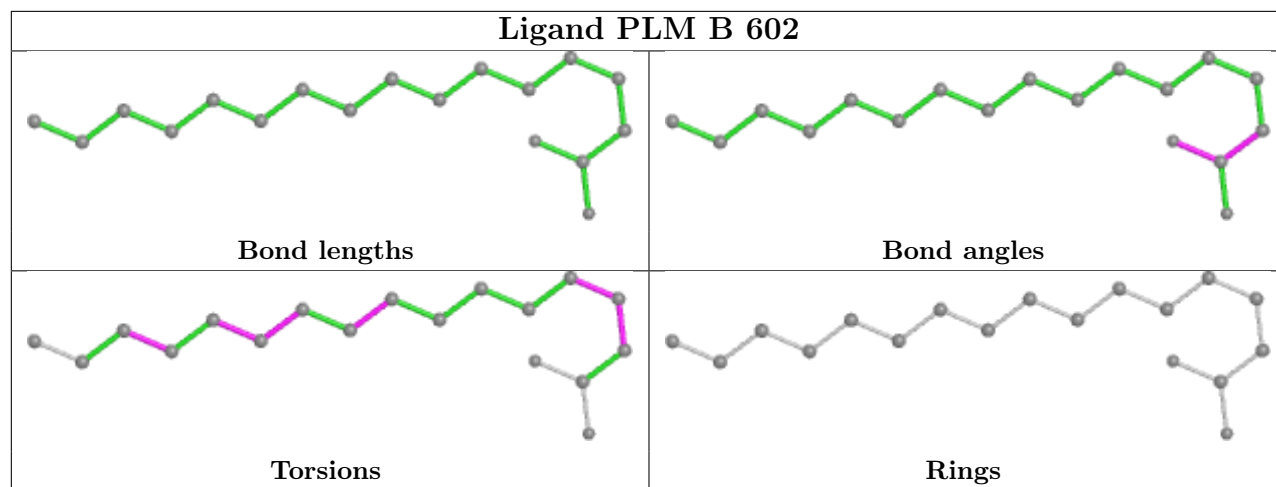


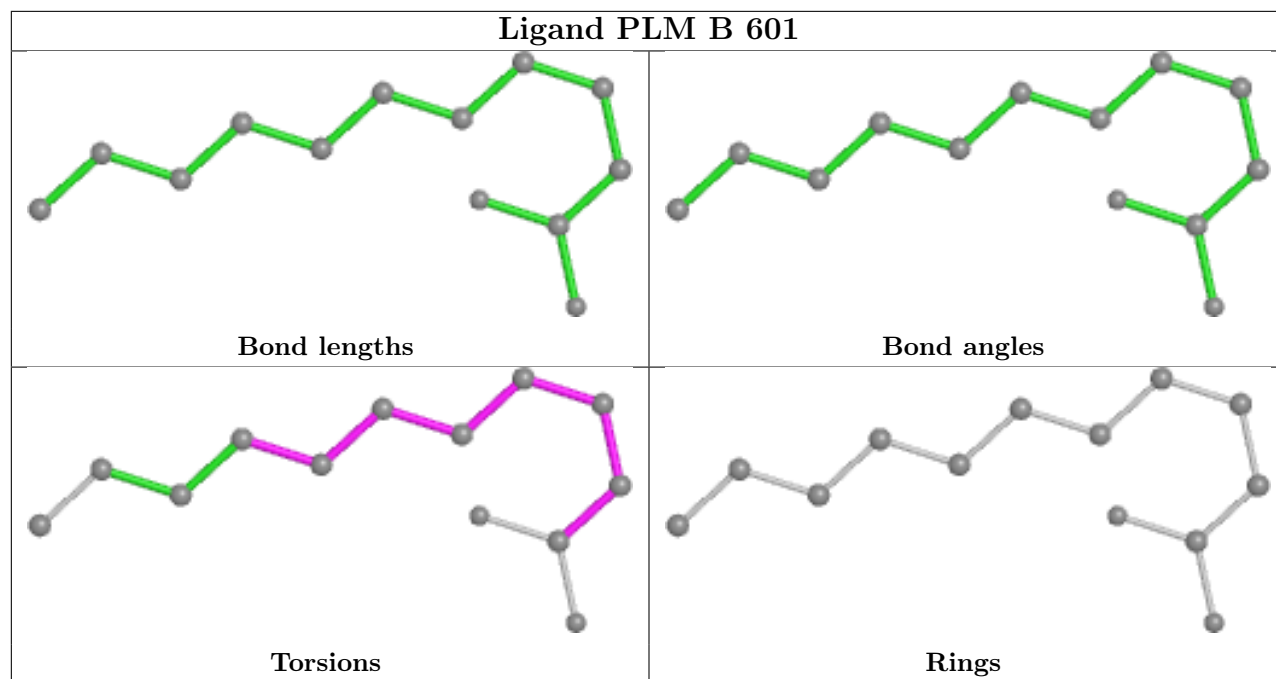












5.7 Other polymers [i](#)

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	581/581 (100%)	0.15	8 (1%) 75 71	38, 59, 88, 122	0
1	B	581/581 (100%)	0.14	8 (1%) 75 71	37, 60, 90, 128	0
All	All	1162/1162 (100%)	0.14	16 (1%) 75 71	37, 60, 89, 128	0

All (16) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	301	ASP	3.8
1	A	204	GLN	3.3
1	A	111	ASN	3.2
1	B	389	LYS	3.1
1	A	301	ASP	3.0
1	B	204	GLN	2.7
1	A	296	ASP	2.7
1	A	60	GLU	2.4
1	A	87	MET	2.4
1	B	443	ALA	2.3
1	B	444	LYS	2.2
1	A	482	VAL	2.2
1	B	311	GLU	2.1
1	B	371	ALA	2.1
1	B	370	TYR	2.0
1	A	95	GLU	2.0

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 monosaccharides in this entry.

6.4 Ligands [i](#)

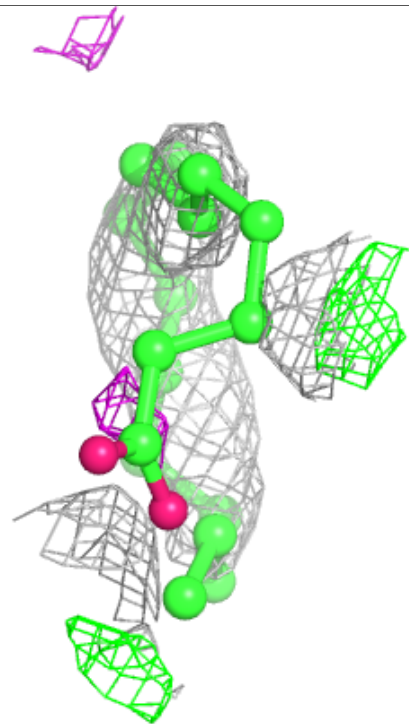
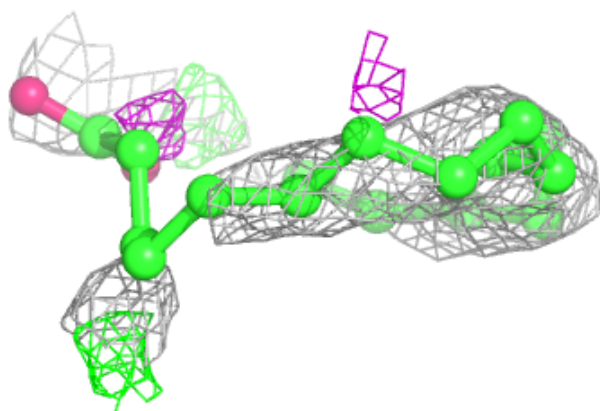
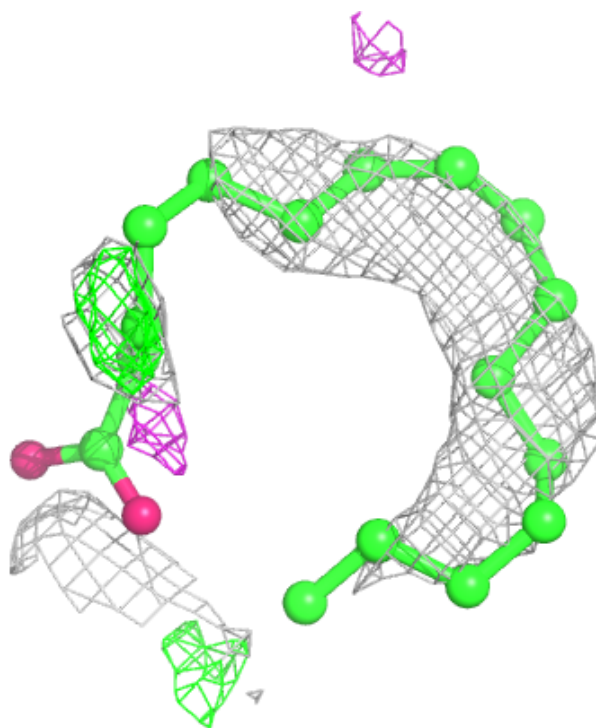
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	PLM	A	607	18/18	0.51	0.68	93,99,112,112	0
2	PLM	A	601	13/18	0.66	0.46	73,85,95,95	0
2	PLM	A	606	18/18	0.71	0.35	57,68,86,86	0
2	PLM	B	607	18/18	0.71	0.68	86,91,106,106	0
2	PLM	B	601	13/18	0.72	0.49	77,90,99,99	0
2	PLM	B	604	18/18	0.74	0.47	68,76,90,91	0
2	PLM	A	604	18/18	0.76	0.42	61,69,79,80	0
2	PLM	B	606	18/18	0.79	0.28	48,66,92,93	0
2	PLM	B	603	17/18	0.81	0.33	57,65,73,73	0
2	PLM	A	603	17/18	0.86	0.29	56,60,68,68	0
2	PLM	B	602	18/18	0.86	0.43	53,60,72,73	0
2	PLM	A	602	18/18	0.87	0.43	47,56,65,67	0
2	PLM	B	605	17/18	0.88	0.26	47,50,64,64	0
3	8ZR	B	608	16/16	0.88	0.32	119,122,149,149	0
3	8ZR	A	608	16/16	0.89	0.18	110,113,136,136	0
2	PLM	A	605	17/18	0.94	0.25	47,53,66,67	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.

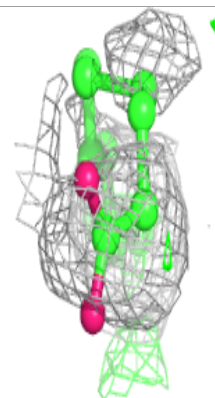
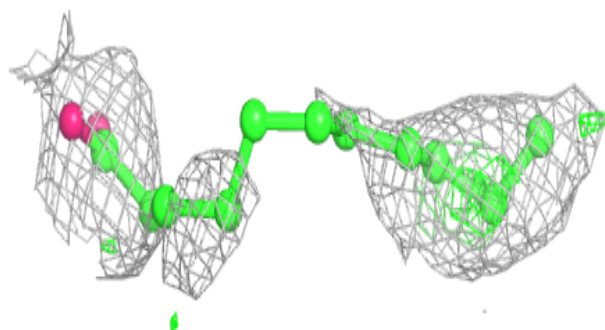
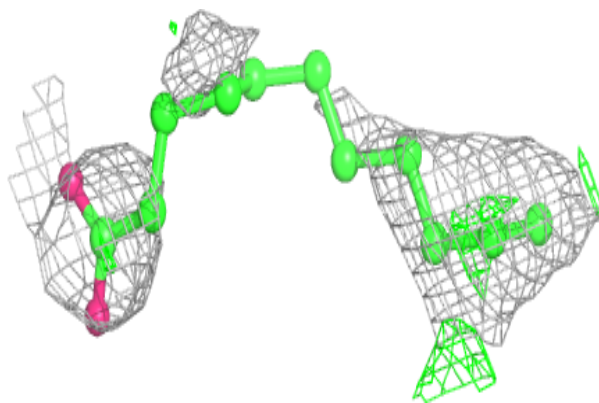
Electron density around PLM A 607:

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

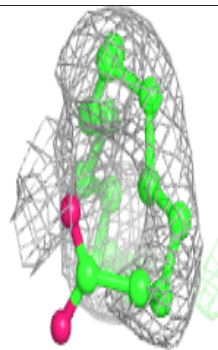
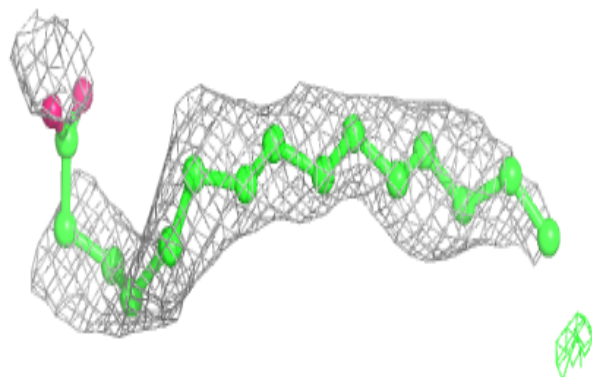
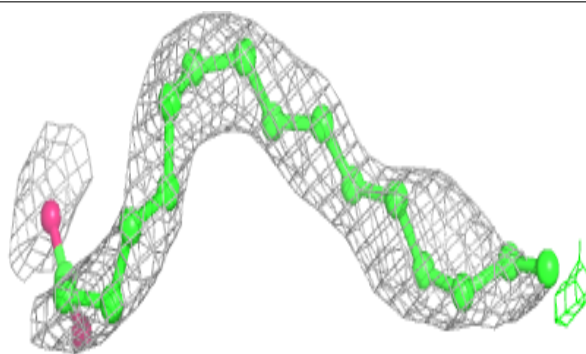


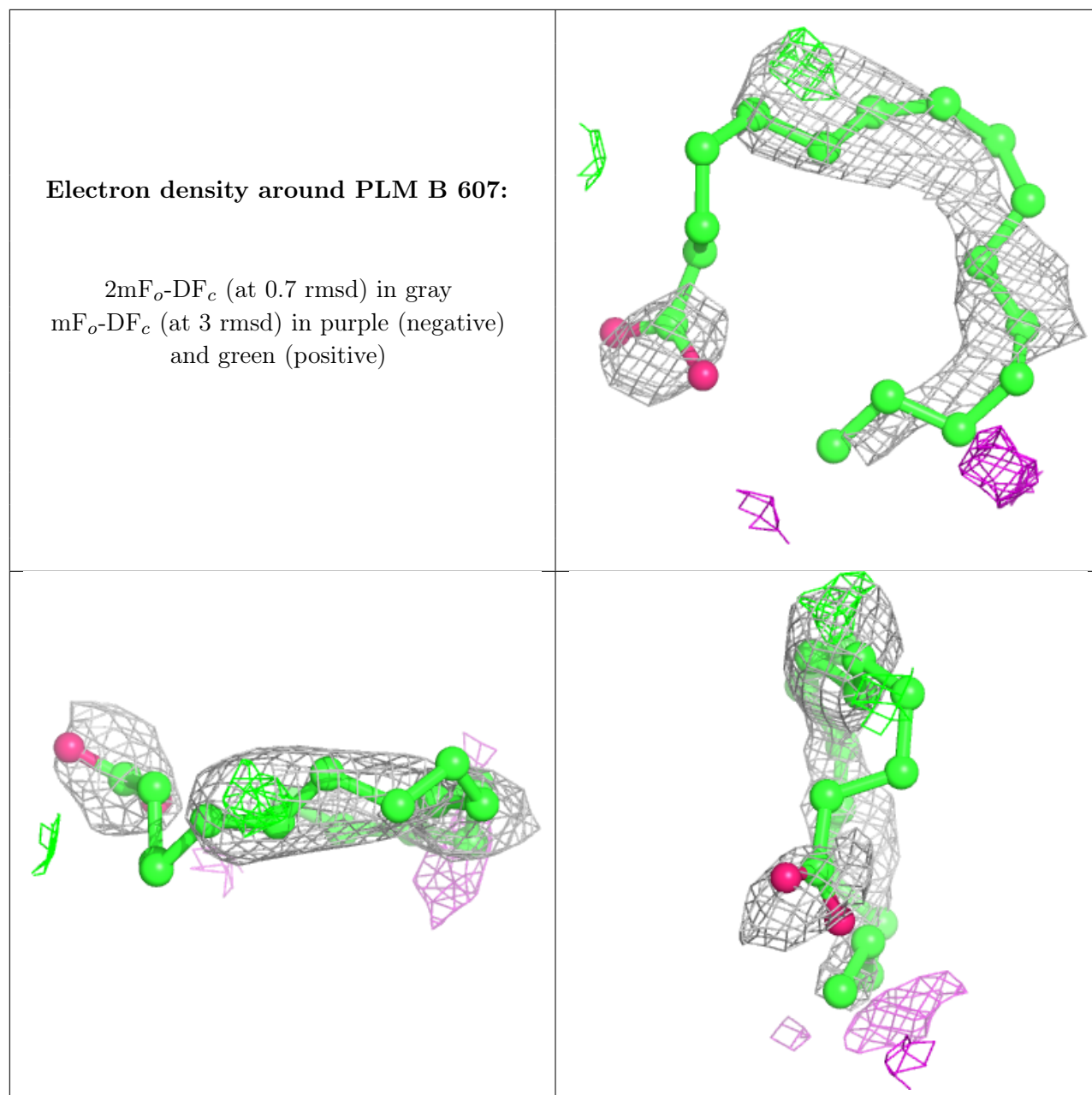
Electron density around PLM A 601:

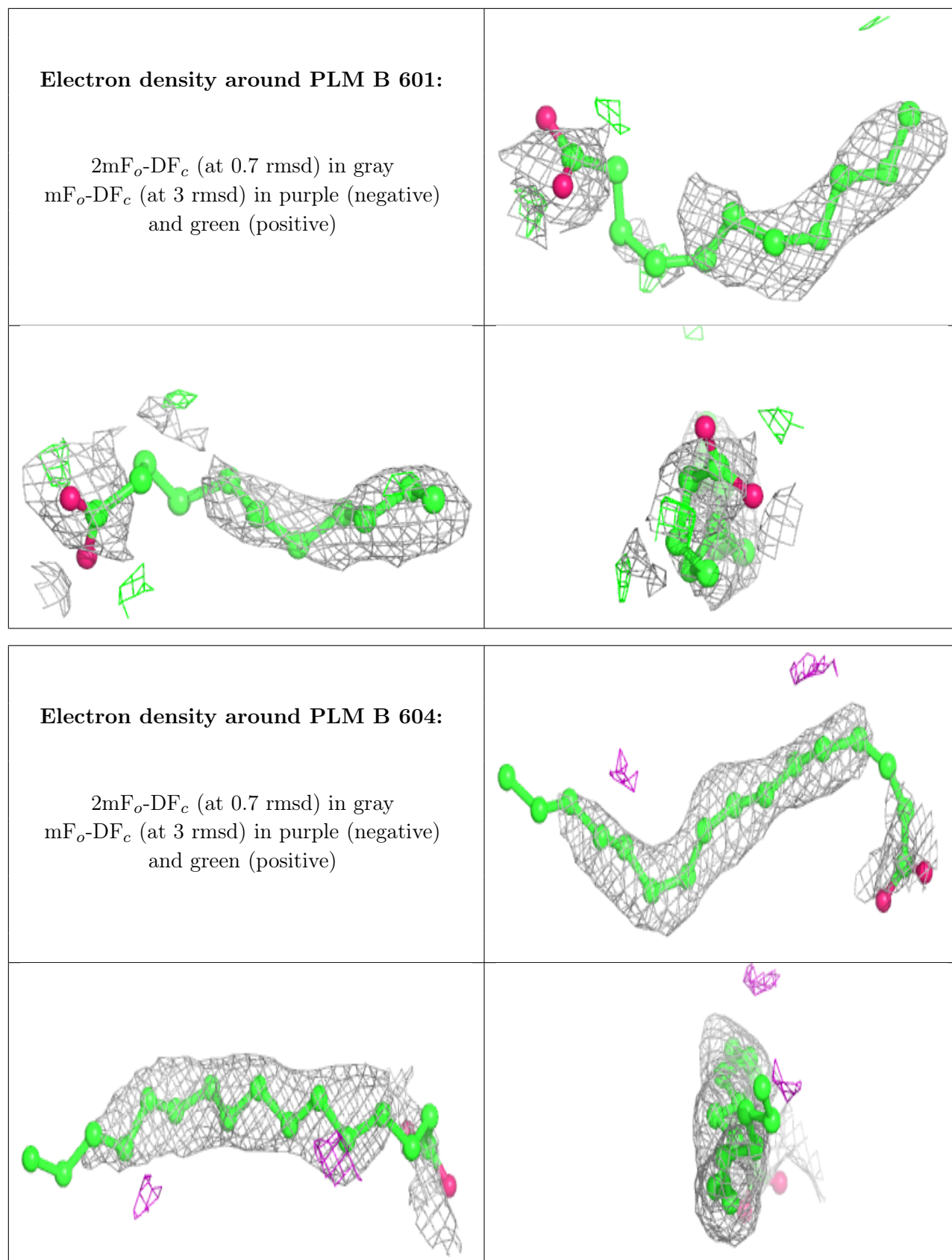
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around PLM A 606:**

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

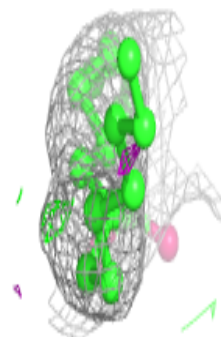
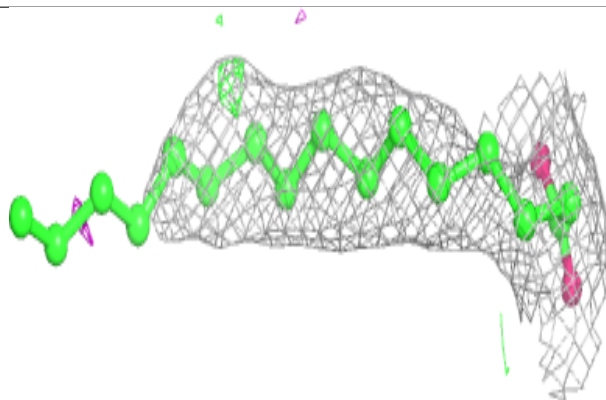
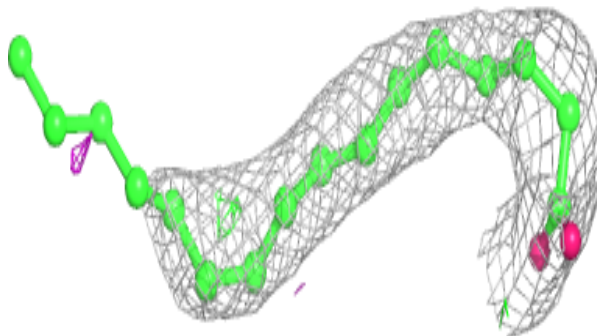




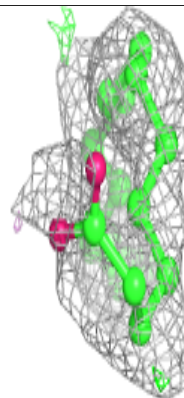
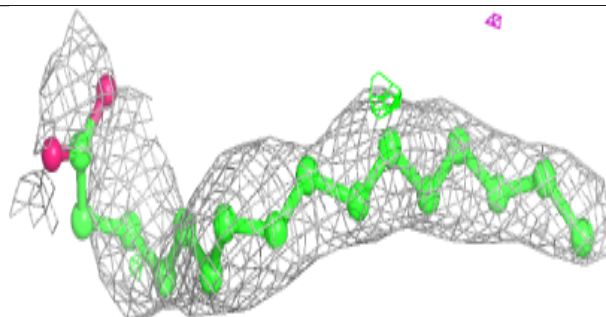
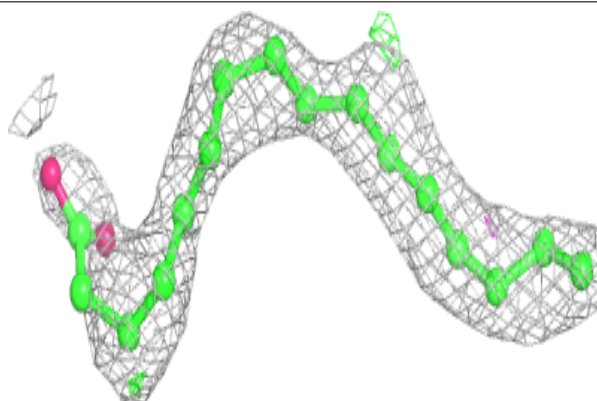


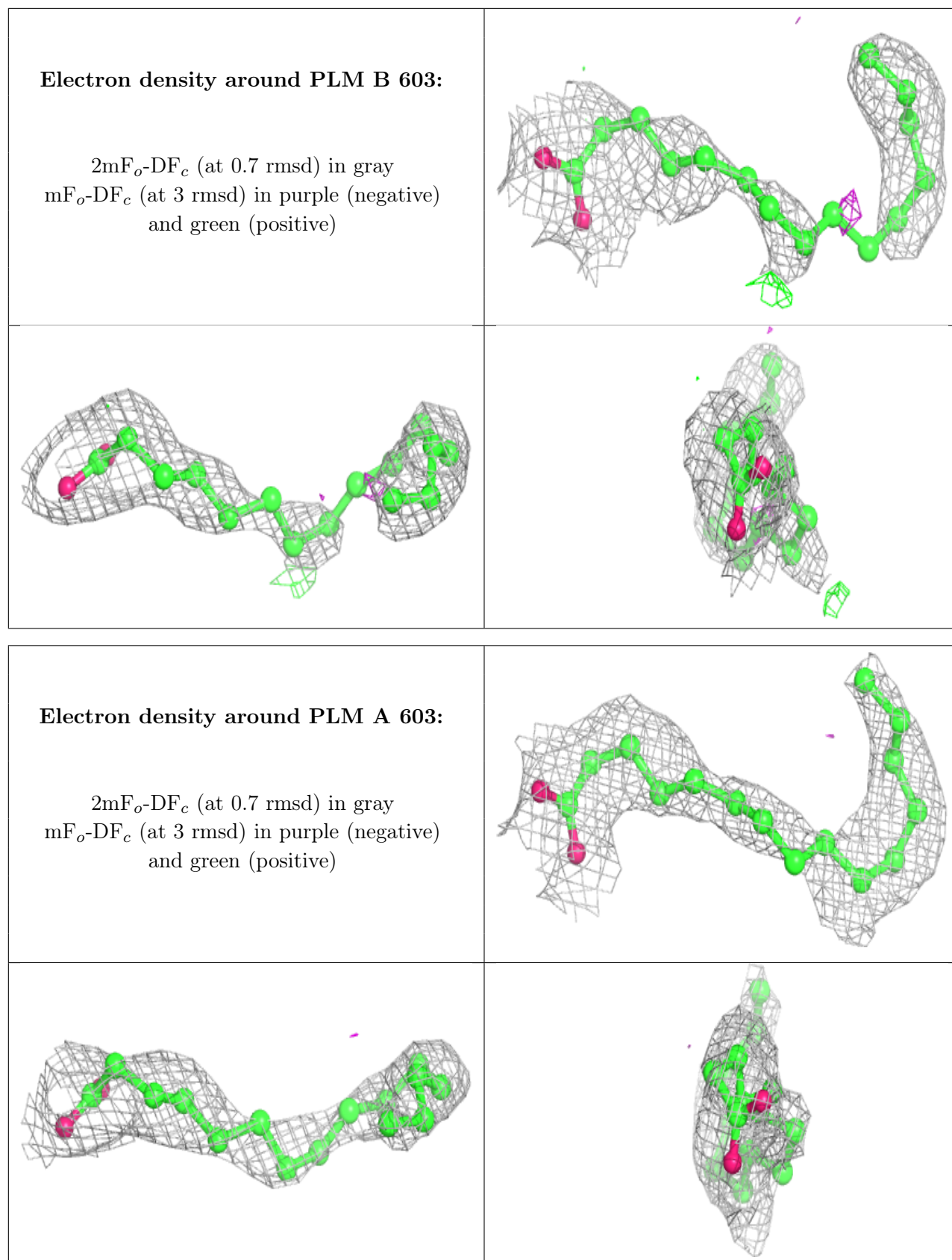
Electron density around PLM A 604:

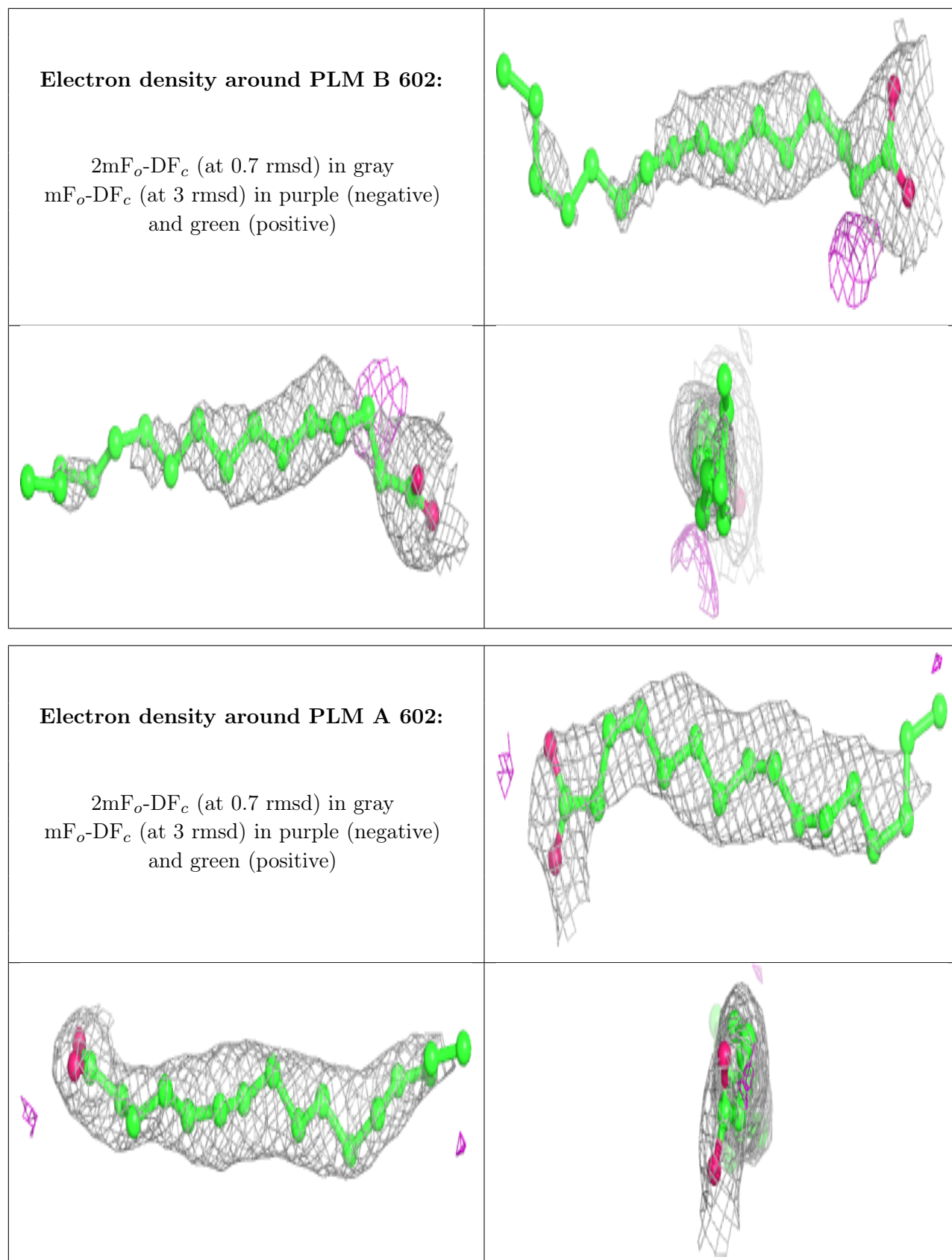
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

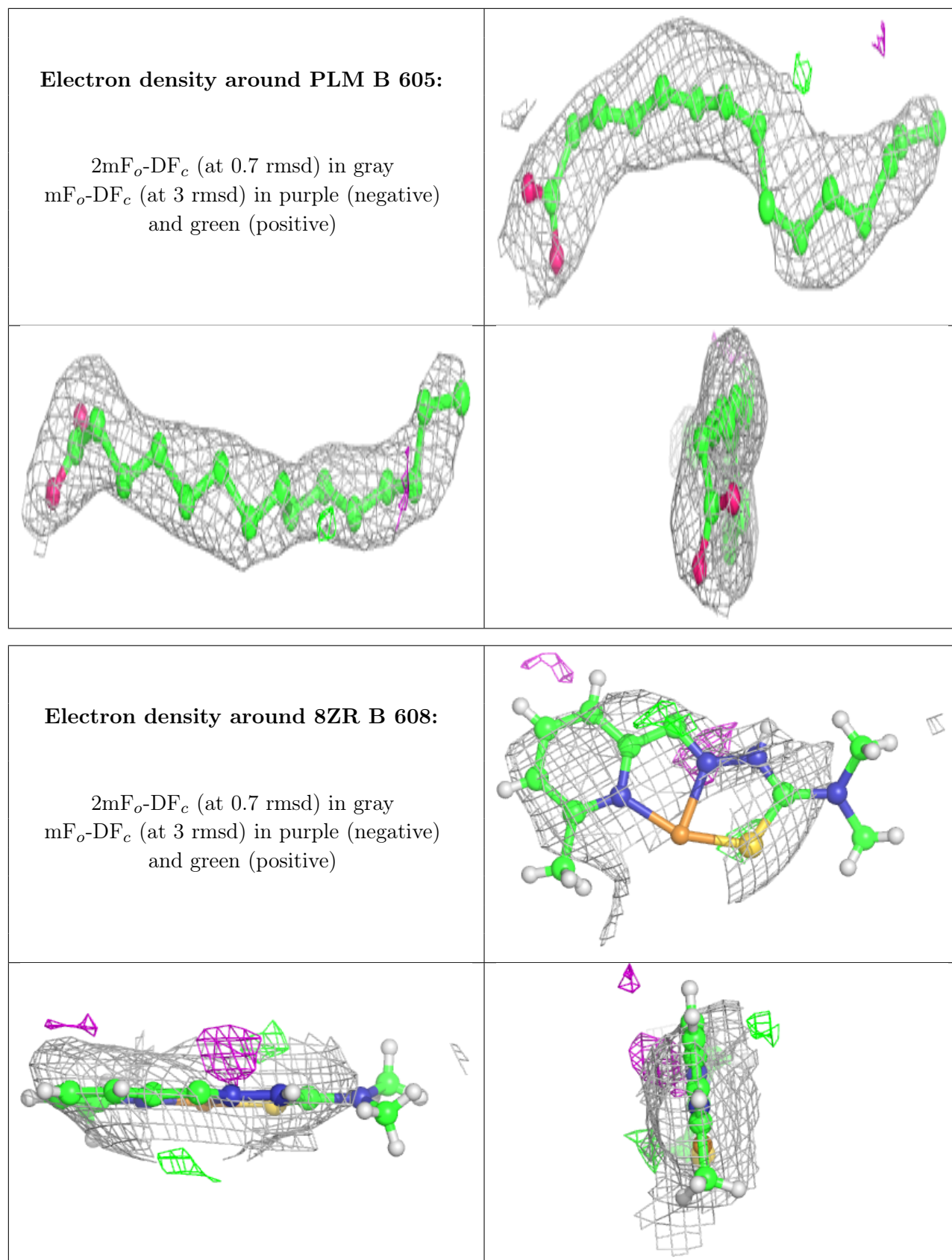
**Electron density around PLM B 606:**

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



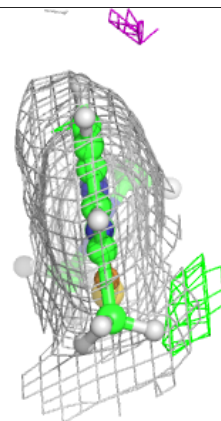
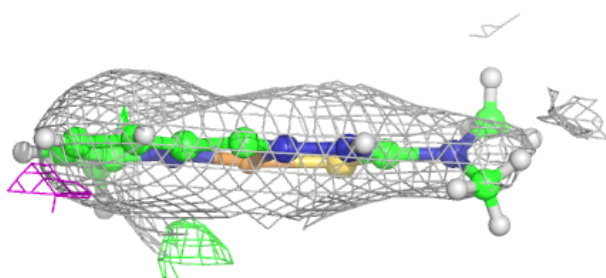
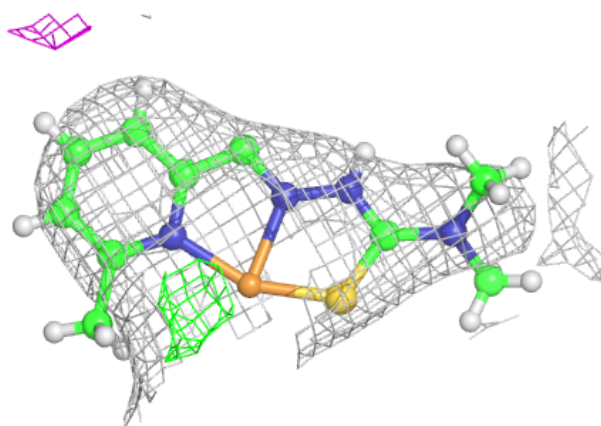




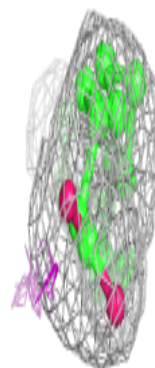
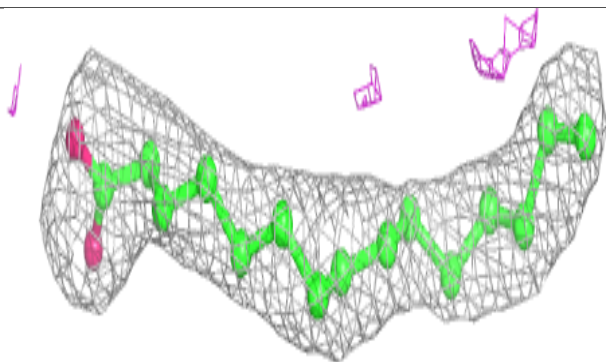
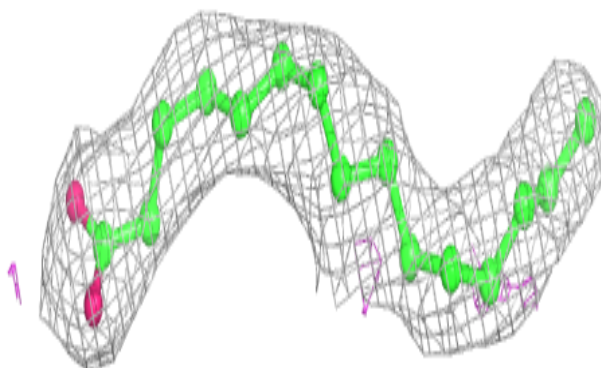


Electron density around 8ZR A 608:

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

**Electron density around PLM A 605:**

$2mF_o-DF_c$ (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.