

# wwPDB X-ray Structure Validation Summary Report (i)

#### Feb 24, 2025 – 12:30 pm GMT

PDB ID	:	9GR4
Title	:	The MKA-RSL - sulfonato-calix[4]arene complex
Authors	:	Mockler, N.M.; Ramberg, K.O.; Flood, R.J.; Crowley, P.B.
Deposited on		
Resolution	:	1.08  Å(reported)

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

We welcome your comments at validation@mail.wwpdb.org A user guide is available at https://www.wwpdb.org/validation/2017/XrayValidationReportHelp with specific help available everywhere you see the (i) symbol.

The types of validation reports are described at http://www.wwpdb.org/validation/2017/FAQs#types.

The following versions of software and data (see references (1)) were used in the production of this report:

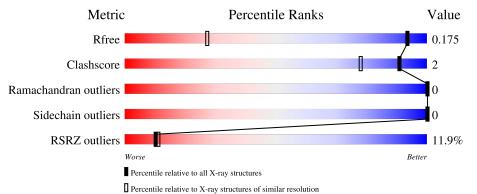
MolProbity	:	4.02b-467
Mogul	:	1.8.4, CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	3.0
buster-report	:	1.1.7(2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.003 (Gargrove)
Density-Fitness	:	1.0.11
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.41

# 1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:  $X\text{-}RAY \, DIFFRACTION$ 

The reported resolution of this entry is 1.08 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\textbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
$R_{free}$	164625	1502 (1.10-1.06)
Clashscore	180529	1658 (1.10-1.06)
Ramachandran outliers	177936	1614 (1.10-1.06)
Sidechain outliers	177891	1611 (1.10-1.06)
RSRZ outliers	164620	1502 (1.10-1.06)

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 <=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	
			11%	
1	А	92	99%	•
			18%	
1	В	92	99%	•
			12%	
1	С	92	93%	7%
			11%	
1	D	92	93%	• •
			12%	
1	Ε	92	97%	••



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Mol	Chain	Length	Quality of chain				
1	F	92	93% • •				



# 2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 5292 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.

Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace	
1	В	92	Total	С	Ν	0	S	0	0	0	
	D	92	703	442	121	137	3	0	0	0	
1	С	92	Total	С	Ν	Ο	S	0	0	0	
		92	703	442	121	137	3	0	0	0	
1	Е	91	Total	С	Ν	Ο	S	0	1	0	
	Ľ	91	701	440	121	138	2	0		0	
1	F	90	Total	С	Ν	0	S	0	1	0	
	I.	90	695	436	120	137	2	0	1		
1	D	90	Total	С	Ν	Ο	S	0	2	0	
	D	90	703	440	122	139	2	0	2	0	
1	Δ	92	Total	С	Ν	0	S	14	0	0	
	1 A	A	92	703	442	121	137	3			0

• Molecule 1 is a protein called Fucose-binding lectin protein.

There are 18 discrepancies between the modelled and reference sequences:

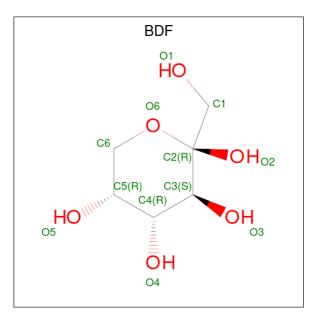
Chain	Residue	Modelled	Actual	Comment	Reference
В	-1	MET	-	initiating methionine	UNP A0A0S4TLR1
В	0	LYS	-	expression tag	UNP A0A0S4TLR1
В	1	ALA	SER	engineered mutation	UNP A0A0S4TLR1
С	-1	MET	-	initiating methionine	UNP A0A0S4TLR1
С	0	LYS	-	expression tag	UNP A0A0S4TLR1
С	1	ALA	SER	engineered mutation	UNP A0A0S4TLR1
Е	-1	MET	-	initiating methionine	UNP A0A0S4TLR1
Е	0	LYS	-	expression tag	UNP A0A0S4TLR1
Е	1	ALA	SER	engineered mutation	UNP A0A0S4TLR1
F	-1	MET	-	initiating methionine	UNP A0A0S4TLR1
F	0	LYS	-	expression tag	UNP A0A0S4TLR1
F	1	ALA	SER	engineered mutation	UNP A0A0S4TLR1
D	-1	MET	-	initiating methionine	UNP A0A0S4TLR1
D	0	LYS	-	expression tag	UNP A0A0S4TLR1
D	1	ALA	SER	engineered mutation	UNP A0A0S4TLR1
А	-1	MET	-	initiating methionine	UNP A0A0S4TLR1
А	0	LYS	-	expression tag	UNP A0A0S4TLR1



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Chain	Residue	Modelled	Actual	Comment	Reference
А	1	ALA	SER	engineered mutation	UNP A0A0S4TLR1

• Molecule 2 is beta-D-fructopyranose (three-letter code: BDF) (formula: C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>) (labeled as "Ligand of Interest" by depositor).



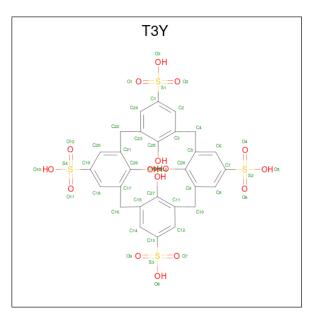
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	В	1	Total         C         O           12         6         6	0	0
2	В	1	Total         C         O           12         6         6	0	0
2	С	1	Total         C         O           12         6         6	0	0
2	С	1	Total         C         O           12         6         6	0	0
2	Е	1	Total         C         O           12         6         6	0	0
2	Е	1	Total         C         O           12         6         6	0	0
2	F	1	Total         C         O           12         6         6	0	0
2	F	1	Total         C         O           12         6         6	0	0
2	D	1	Total         C         O           12         6         6	0	0
2	D	1	Total         C         O           12         6         6	0	0



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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	А	1	Total         C         O           12         6         6	0	0
2	А	1	Total         C         O           12         6         6	0	0

• Molecule 3 is 25,26,27,28-tetrahydroxypentacyclo[19.3.1.1 3,7 .1 9,13 .1 15,19 ]octa cosa-1(25),3(28),4,6,9(27),10,12,15(26),16,18,21,23-dodecaene-5,11,17,23-tetrasulfoni c acid (three-letter code: T3Y) (formula:  $C_{28}H_{24}O_{16}S_4$ ) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	С	1	Total         C         O         S           48         28         16         4	0	0
3	Е	1	Total         C         O         S           48         28         16         4	0	0
3	А	1	Total         C         O         S           48         28         16         4	0	0

• Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	В	116	Total O 116 116	0	0
4	С	139	Total O 139 139	0	0
4	Е	143	Total O 143 143	0	0



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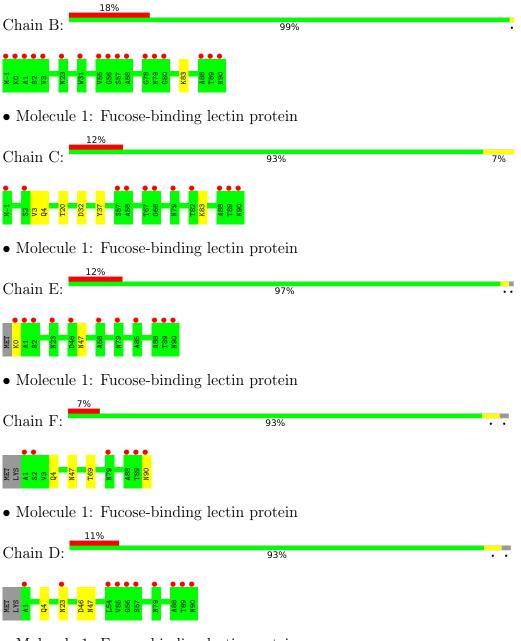
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	F	134	Total O 134 134	0	0
4	D	131	Total O 131 131	0	0
4	А	133	Total O 133 133	0	0



# 3 Residue-property plots (i)

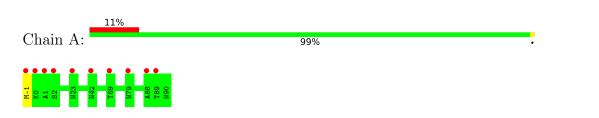
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

• Molecule 1: Fucose-binding lectin protein



• Molecule 1: Fucose-binding lectin protein







## 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	44.05Å 73.55Å 75.89Å	Denesiten
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $90.39^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	38.21 - 1.08	Depositor
Resolution (A)	38.21 - 1.08	EDS
% Data completeness	84.4 (38.21-1.08)	Depositor
(in resolution range)	85.0 (38.21-1.08)	EDS
R <sub>merge</sub>	0.04	Depositor
R <sub>sym</sub>	(Not available)	Depositor
$< I/\sigma(I) > 1$	2.11 (at 1.08Å)	Xtriage
Refinement program	PHENIX 1.21.1_5286	Depositor
D D	0.162 , $0.175$	Depositor
$R, R_{free}$	0.161 , $0.175$	DCC
$R_{free}$ test set	10661  reflections  (5.14%)	wwPDB-VP
Wilson B-factor $(Å^2)$	9.5	Xtriage
Anisotropy	0.164	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.37, 36.8	EDS
L-test for twinning <sup>2</sup>	$<  L  > = 0.50, < L^2 > = 0.34$	Xtriage
	0.000 for -h,l,k	
Estimated twinning fraction	0.000 for -h,-l,-k	Xtriage
	0.015 for h,-k,-l	
$F_o, F_c$ correlation	0.97	EDS
Total number of atoms	5292	wwPDB-VP
Average B, all atoms $(Å^2)$	14.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The analyses of the Patterson function reveals a significant off-origin peak that is 38.06 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 3.9011e-04. The detected translational NCS is most likely also responsible for the elevated intensity ratio.

<sup>&</sup>lt;sup>2</sup>Theoretical 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.



<sup>&</sup>lt;sup>1</sup>Intensities estimated from amplitudes.

# 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: T3Y, BDF

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		
IVIOI	Unam	RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	А	0.32	0/724	0.61	0/993	
1	В	0.29	0/724	0.59	0/993	
1	С	0.31	0/724	0.60	0/993	
1	D	0.31	0/724	0.61	0/995	
1	Ε	0.31	0/722	0.62	0/991	
1	F	0.32	0/716	0.61	0/984	
All	All	0.31	0/4334	0.61	0/5949	

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	А	703	0	658	2	0
1	В	703	0	658	1	0
1	С	703	0	658	4	0
1	D	703	0	648	5	0
1	Е	701	0	653	2	0
1	F	695	0	643	4	0
2	А	24	0	24	0	0



Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	В	24	0	24	0	0
2	С	24	0	24	0	0
2	D	24	0	24	0	0
2	Е	24	0	24	0	0
2	F	24	0	24	0	0
3	А	48	0	21	0	0
3	С	48	0	18	0	0
3	Е	48	0	20	2	0
4	А	133	0	0	0	0
4	В	116	0	0	0	0
4	С	139	0	0	0	0
4	D	131	0	0	1	0
4	Е	143	0	0	0	0
4	F	134	0	0	2	0
All	All	5292	0	4121	14	0

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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 2.

The worst 5 of 14 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:F:47:ASN:HD21	1:D:4[B]:GLN:HG2	1.69	0.58
1:D:46:ASP:HB3	1:A:-1:MET:HG2	1.87	0.56
1:C:3:VAL:HG13	1:C:20:THR:HG23	1.89	0.54
1:F:47:ASN:ND2	1:D:4[B]:GLN:HG2	2.27	0.50
1:C:32:ASP:OD2	1:C:37:TYR:OH	2.22	0.47

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	Perce	ntiles
1	А	90/92~(98%)	86~(96%)	4 (4%)	0	100	100
1	В	90/92~(98%)	89~(99%)	1 (1%)	0	100	100
1	С	90/92~(98%)	85 (94%)	5~(6%)	0	100	100
1	D	90/92~(98%)	87 (97%)	3 (3%)	0	100	100
1	Ε	90/92~(98%)	88 (98%)	2(2%)	0	100	100
1	F	89/92~(97%)	86 (97%)	3 (3%)	0	100	100
All	All	539/552~(98%)	521 (97%)	18 (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 side chain 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	Perce	ntiles
1	А	72/72~(100%)	72~(100%)	0	100	100
1	В	72/72~(100%)	72 (100%)	0	100	100
1	С	72/72~(100%)	72~(100%)	0	100	100
1	D	72/72~(100%)	72~(100%)	0	100	100
1	Ε	72/72~(100%)	72~(100%)	0	100	100
1	F	71/72~(99%)	71 (100%)	0	100	100
All	All	431/432~(100%)	431 (100%)	0	100	100

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

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

Mol	Chain	Res	Type
1	D	23	ASN

#### 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)

15 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	Bo	ond leng	ths	В	ond ang	les
	туре	Chain	nes		Counts	RMSZ	# Z >2	Counts	RMSZ	# Z  > 2
2	BDF	В	102	-	12,12,12	0.12	0	18,18,18	0.40	0
2	BDF	С	102	-	12,12,12	0.12	0	18,18,18	0.42	0
3	T3Y	С	101	-	52,52,52	0.24	0	84,84,84	0.39	1 (1%)
2	BDF	D	101	-	12,12,12	0.10	0	18,18,18	0.53	0
2	BDF	F	102	-	12,12,12	0.10	0	18,18,18	0.49	0
2	BDF	D	102	-	12,12,12	0.16	0	18,18,18	0.46	0
2	BDF	В	101	-	12,12,12	0.11	0	18,18,18	0.47	0
2	BDF	А	103	-	12,12,12	0.15	0	$18,\!18,\!18$	0.42	0
3	T3Y	Е	101	-	52,52,52	0.25	0	84,84,84	0.31	0
2	BDF	Е	103	-	12,12,12	0.12	0	18,18,18	0.41	0
3	T3Y	А	101	-	52,52,52	0.25	0	84,84,84	0.19	0
2	BDF	F	101	-	12,12,12	0.08	0	18,18,18	0.50	0
2	BDF	А	102	-	12,12,12	0.16	0	18,18,18	0.45	0
2	BDF	Е	102	-	12,12,12	0.16	0	18,18,18	0.60	0
2	BDF	С	103	-	12,12,12	0.12	0	18,18,18	0.44	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	BDF	В	102	-	-	0/3/23/23	0/1/1/1
2	BDF	С	102	-	-	0/3/23/23	0/1/1/1
3	T3Y	С	101	-	-	0/40/40/40	0/5/5/5
2	BDF	D	101	-	-	0/3/23/23	0/1/1/1
2	BDF	F	102	-	-	0/3/23/23	0/1/1/1
2	BDF	D	102	-	-	0/3/23/23	0/1/1/1
2	BDF	В	101	-	-	0/3/23/23	0/1/1/1
2	BDF	А	103	-	-	0/3/23/23	0/1/1/1
3	T3Y	Е	101	-	-	0/40/40/40	0/5/5/5
2	BDF	Е	103	-	-	0/3/23/23	0/1/1/1
3	T3Y	А	101	-	-	0/40/40/40	0/5/5/5
2	BDF	F	101	-	-	0/3/23/23	0/1/1/1
2	BDF	А	102	-	-	0/3/23/23	0/1/1/1
2	BDF	Е	102	-	-	0/3/23/23	0/1/1/1
2	BDF	С	103	-	-	0/3/23/23	0/1/1/1

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
3	С	101	T3Y	C17-C16-C15	-2.46	105.88	112.67

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

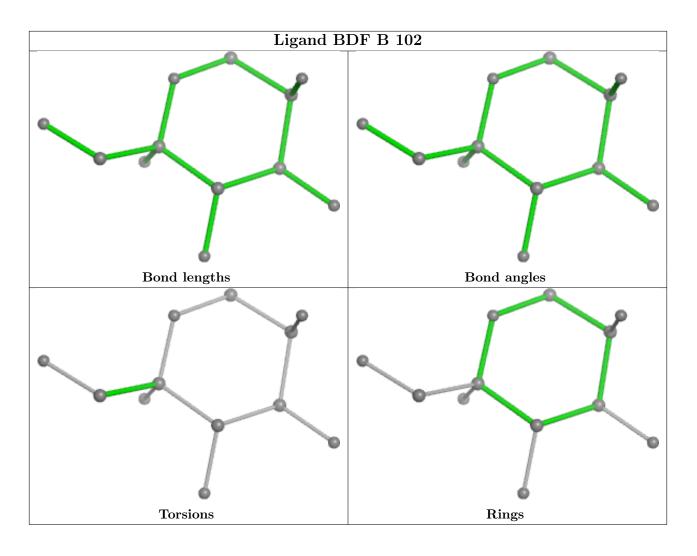
1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	Ε	101	T3Y	2	0

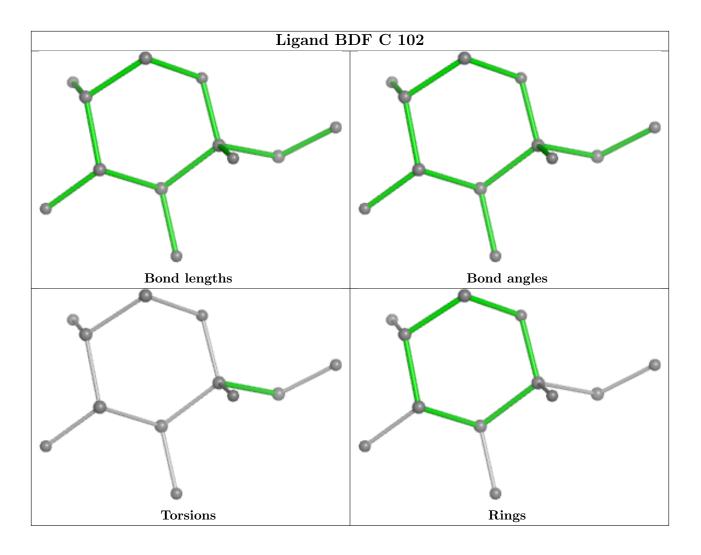
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 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 sufficient the outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.





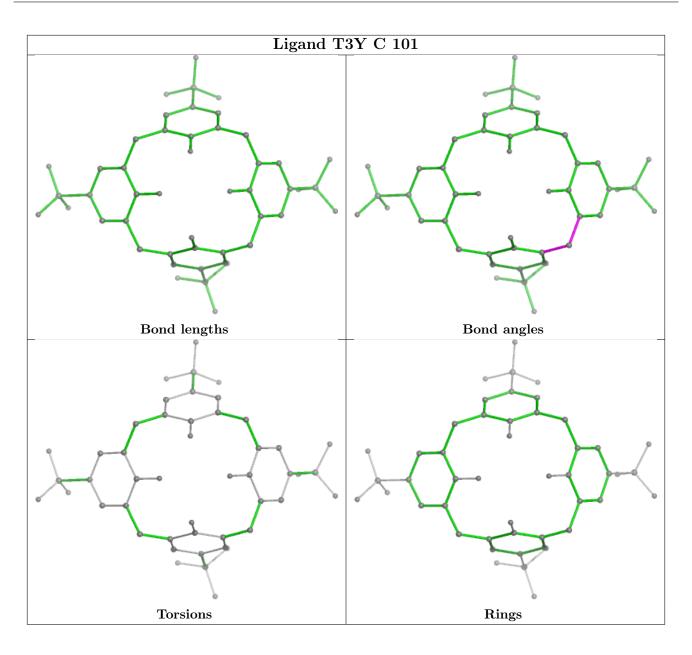




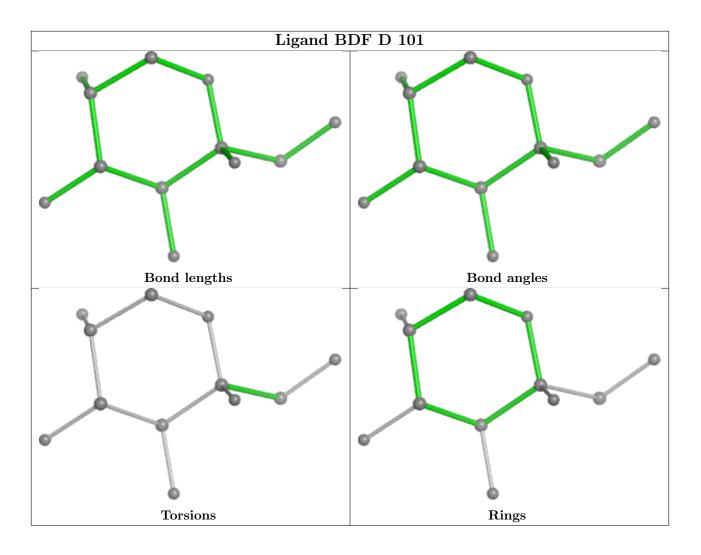




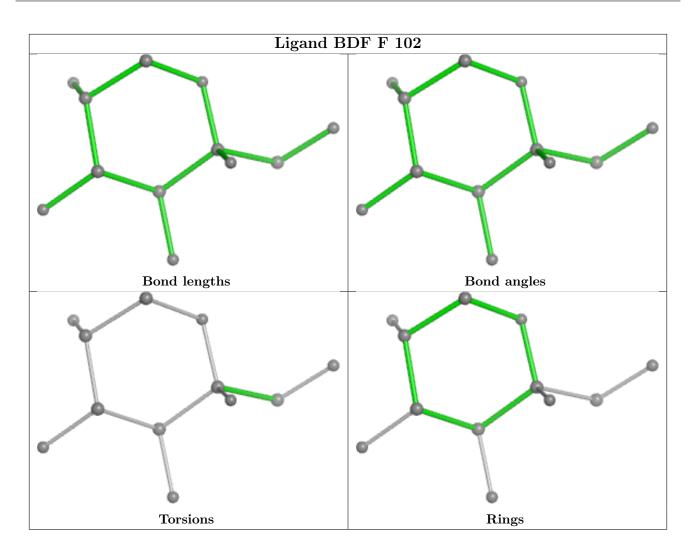




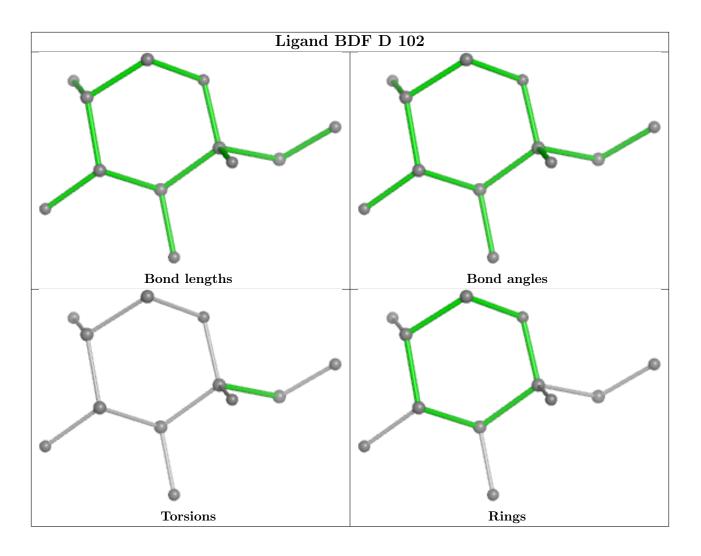




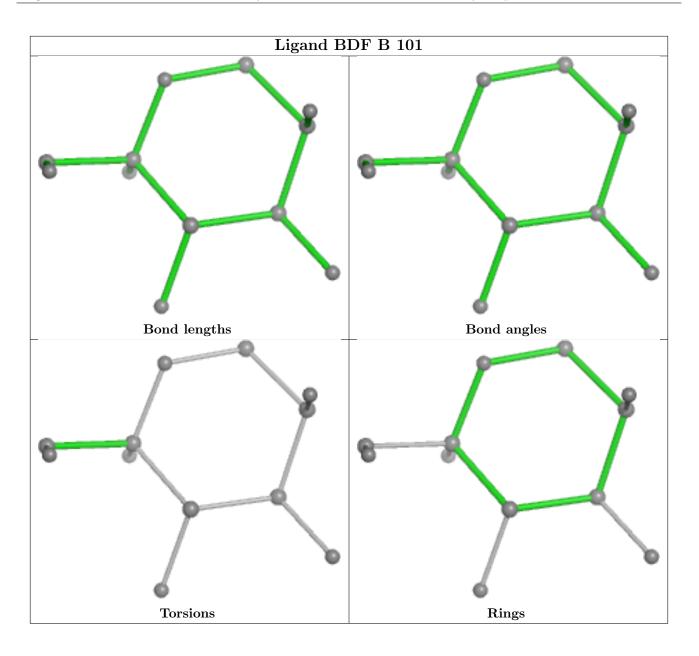






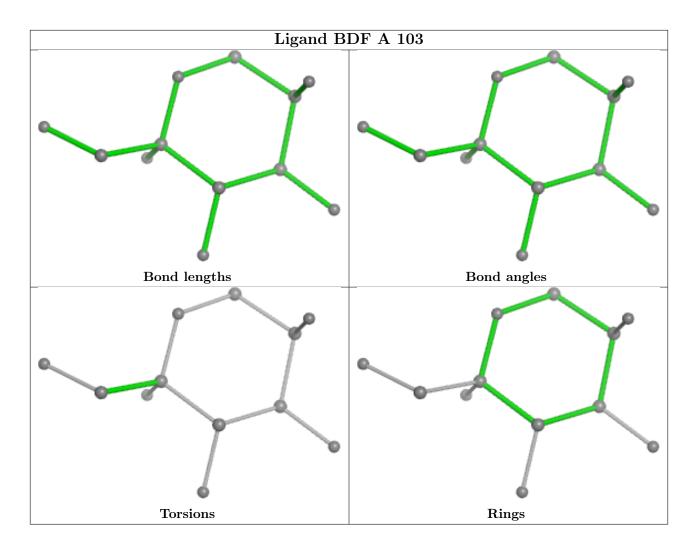




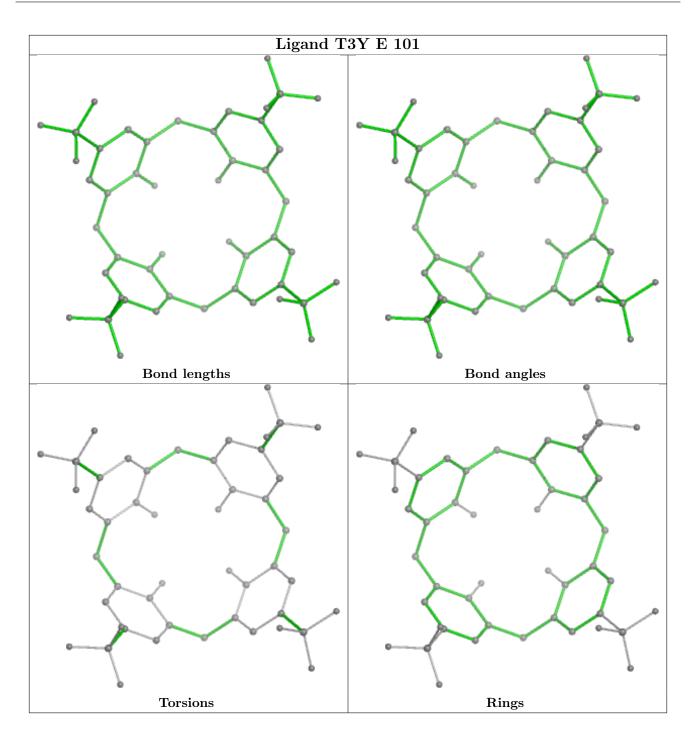




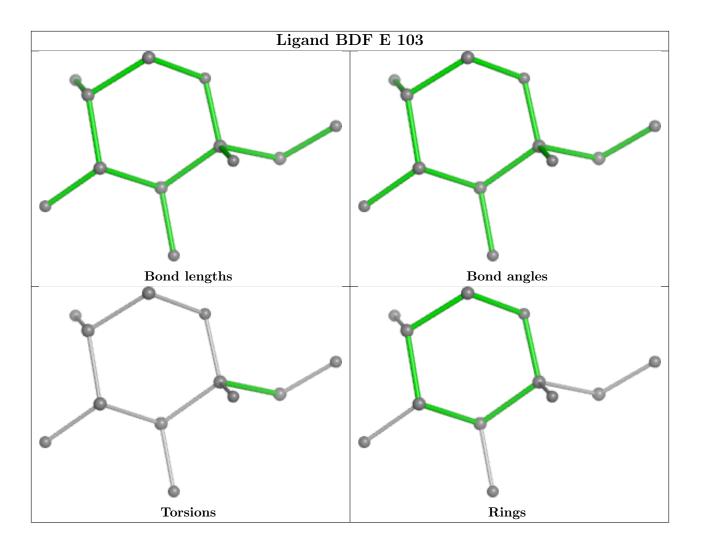




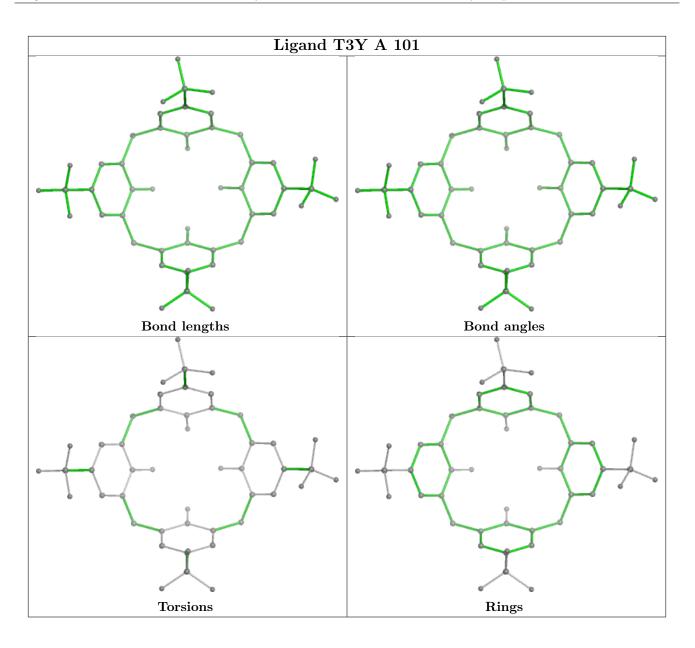




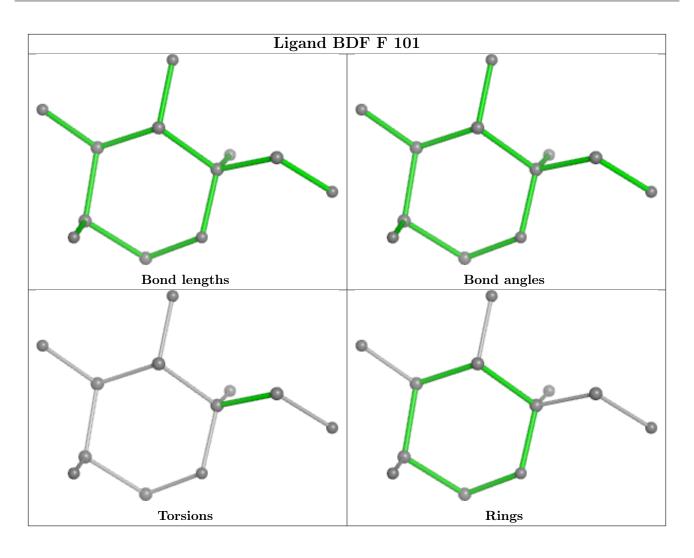






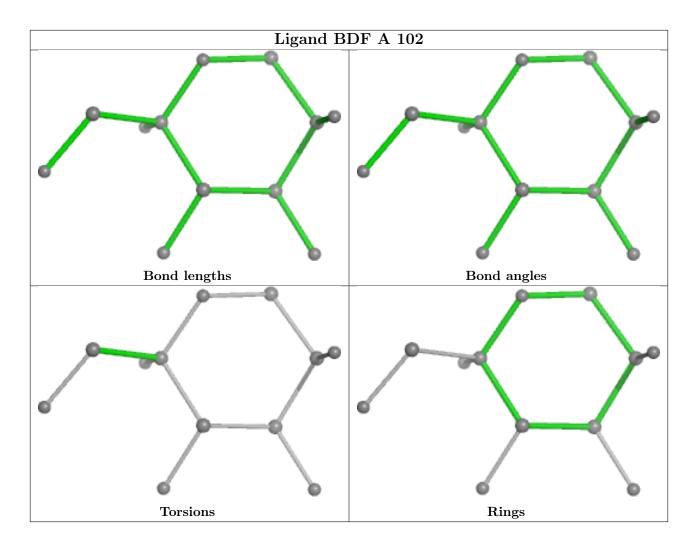






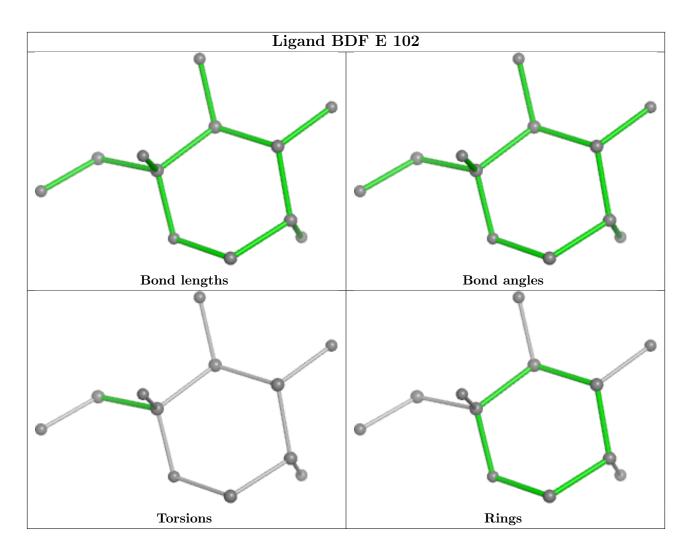




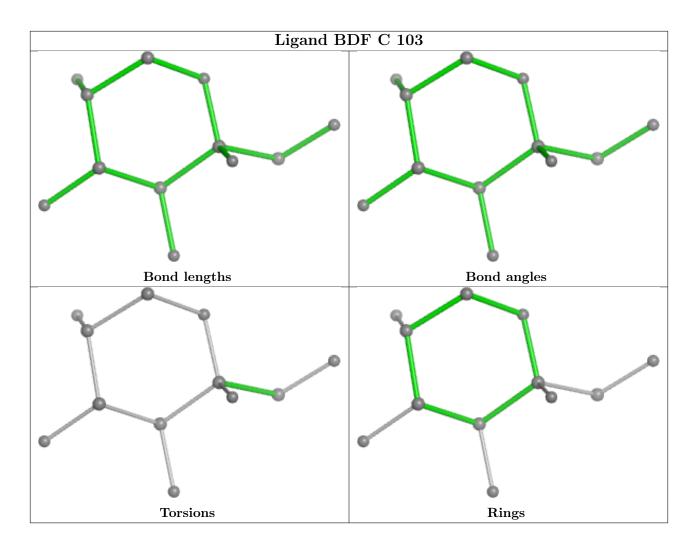












## 5.7 Other polymers (i)

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,  $95^{th}$  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	Analysed $< RSRZ >$ $#RSRZ > 2$		$OWAB(A^2)$	Q<0.9
1	А	91/92~(98%)	0.57	10 (10%) 12 13	3, 10, 22, 56	1 (1%)
1	В	92/92~(100%)	1.09	17 (18%) 4 5	8, 12, 34, 50	0
1	С	92/92~(100%)	0.80	11 (11%) 10 11	7, 11, 25, 44	0
1	D	90/92~(97%)	0.60	10 (11%) 12 13	5, 9, 25, 36	2(2%)
1	Ε	91/92~(98%)	0.81	11 (12%) 10 11	7, 9, 26, 48	1 (1%)
1	F	90/92~(97%)	0.60	6 (6%) 25 28	6, 9, 24, 49	1 (1%)
All	All	546/552~(98%)	0.75	65 (11%) 10 11	3, 10, 27, 56	5(0%)

The worst 5 of 65 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	Е	88	ALA	7.2
1	В	89	THR	6.8
1	F	1	ALA	6.6
1	F	89	THR	6.6
1	Е	1	ALA	6.0

## 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.



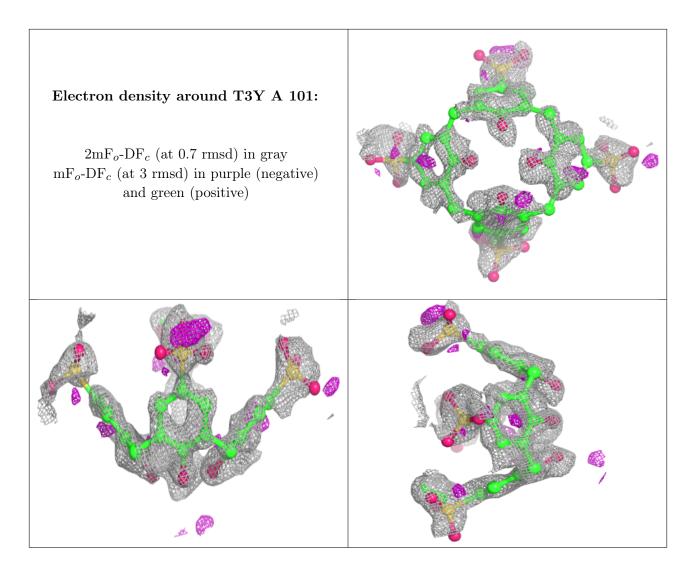
### 6.4 Ligands (i)

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,  $95^{th}$  percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

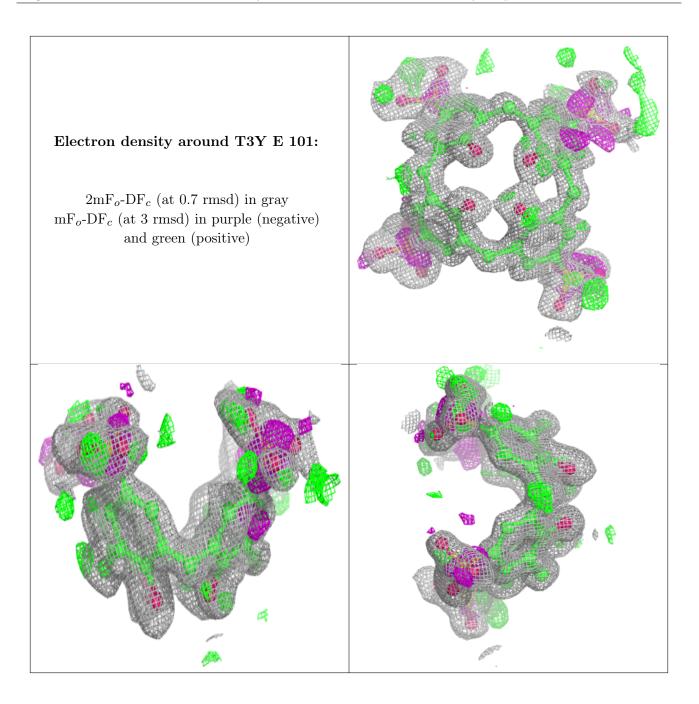
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$B-factors(Å^2)$	Q < 0.9
3	T3Y	А	101	48/48	0.69	0.15	$38,\!56,\!76,\!93$	0
3	T3Y	Е	101	48/48	0.91	0.12	11,16,29,40	0
2	BDF	Е	103	12/12	0.92	0.12	$10,\!13,\!17,\!23$	0
2	BDF	В	102	12/12	0.95	0.08	11,12,14,26	0
2	BDF	С	103	12/12	0.96	0.07	9,11,16,23	0
3	T3Y	С	101	48/48	0.97	0.07	8,10,14,17	0
2	BDF	В	101	12/12	0.97	0.07	8,8,12,29	0
2	BDF	D	101	12/12	0.97	0.06	8,8,10,15	0
2	BDF	D	102	12/12	0.98	0.06	7,9,11,33	0
2	BDF	А	102	12/12	0.98	0.05	8,8,10,12	0
2	BDF	А	103	12/12	0.98	0.05	8,9,11,15	0
2	BDF	С	102	12/12	0.98	0.05	8,9,10,15	0
2	BDF	F	101	12/12	0.98	0.06	9,9,12,18	0
2	BDF	Е	102	12/12	0.98	0.06	$9,\!9,\!10,\!15$	0
2	BDF	F	102	12/12	0.99	0.04	6,7,10,14	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.

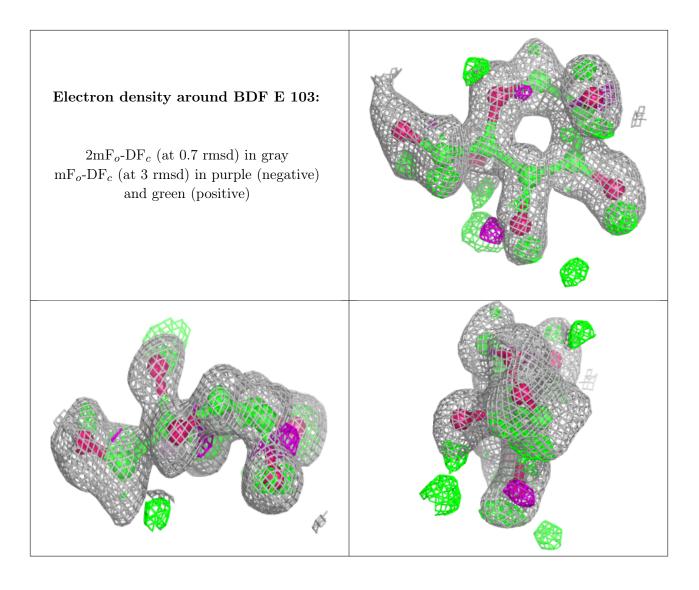




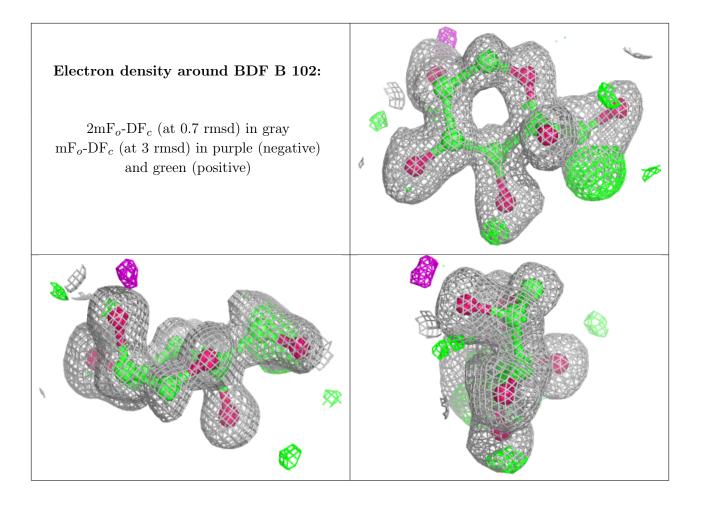




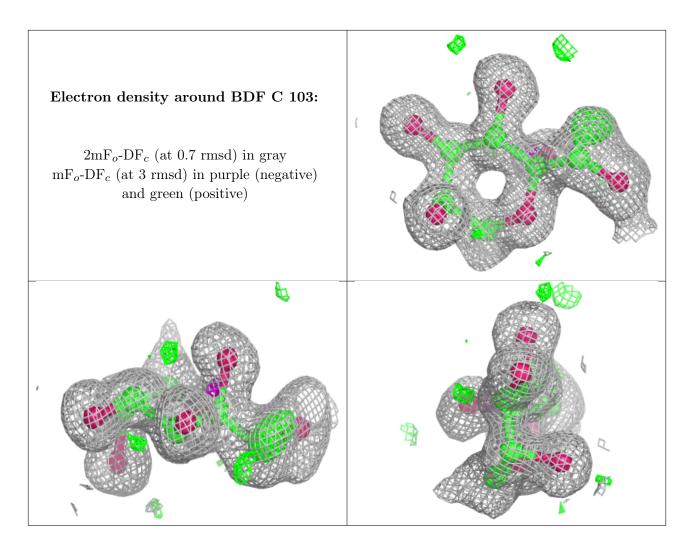




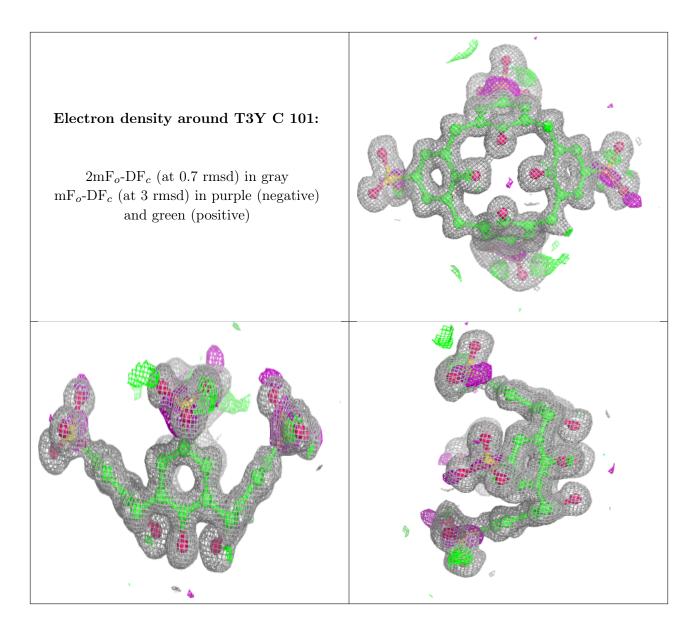




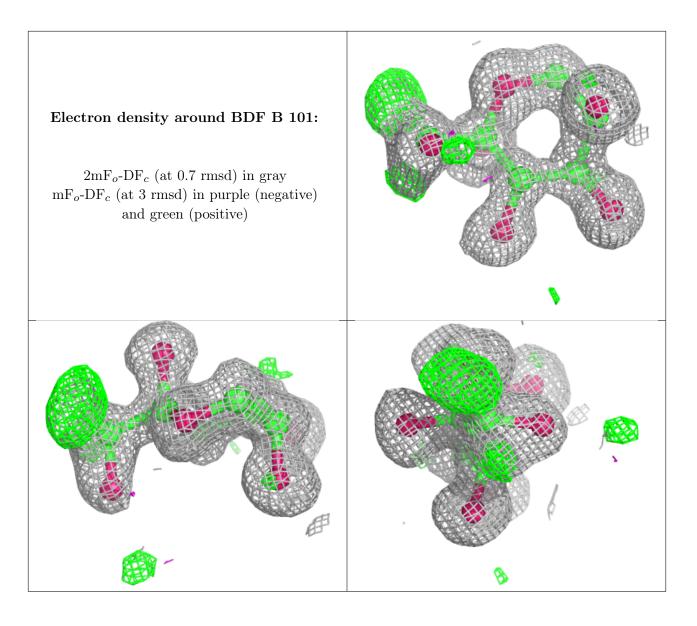




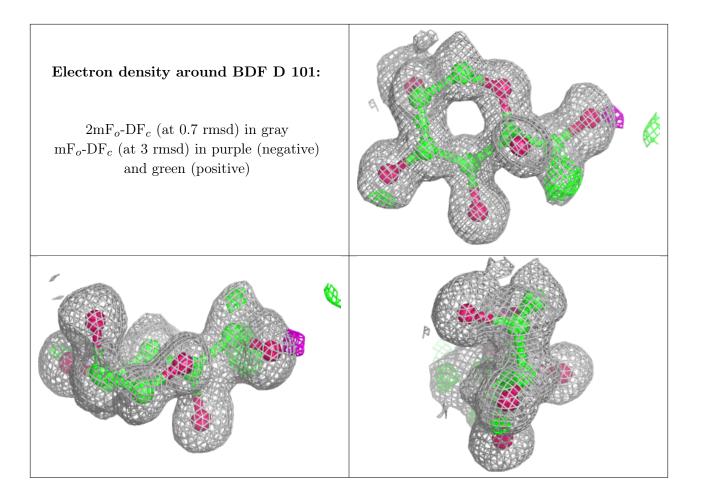




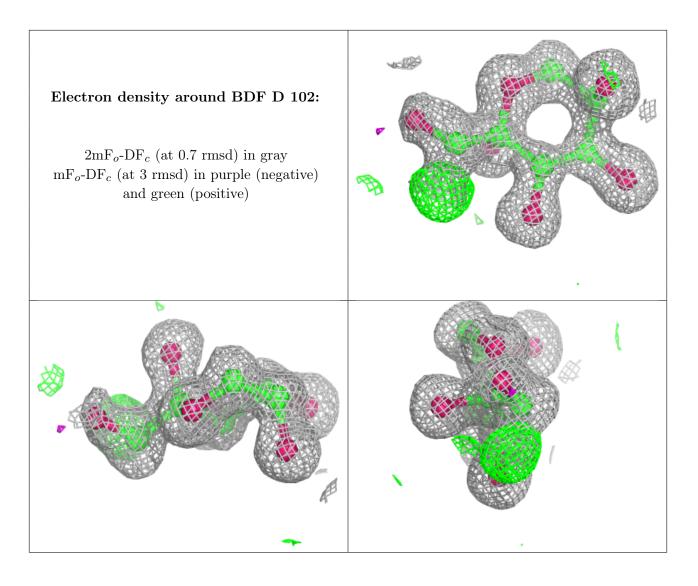




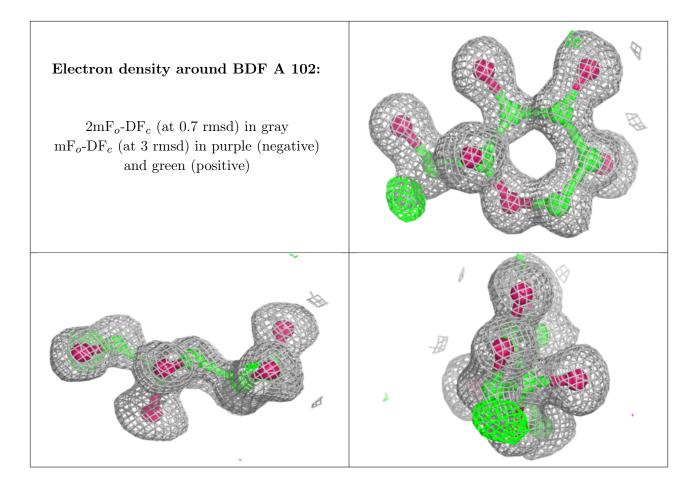




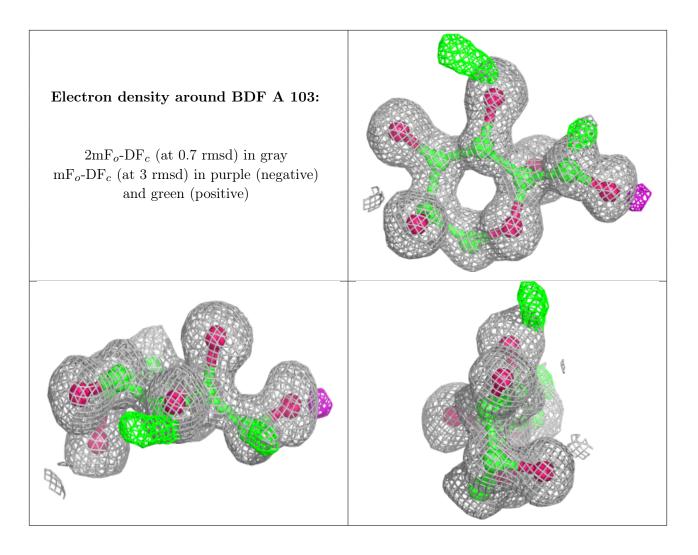




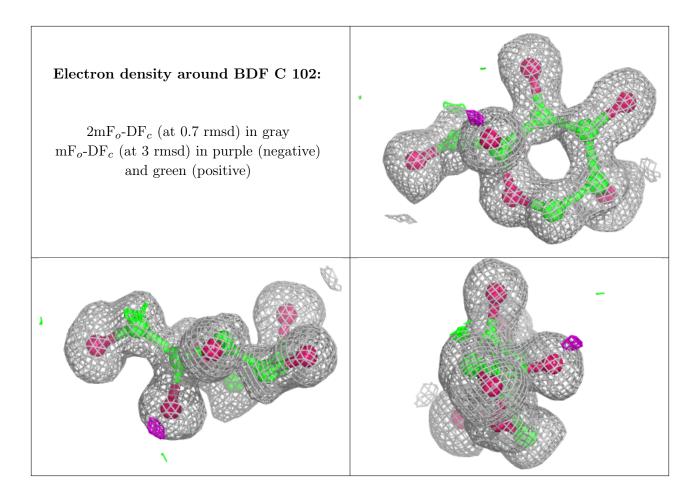




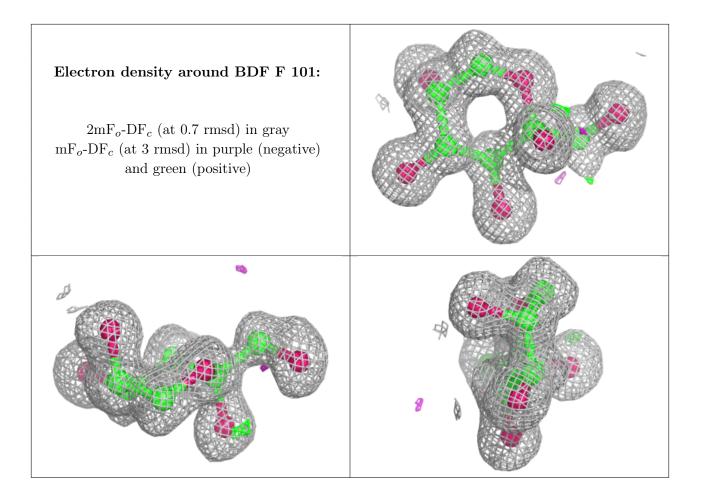




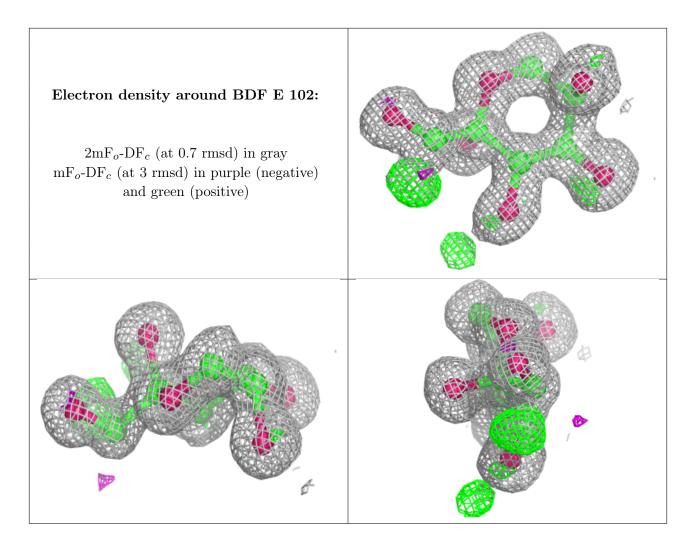




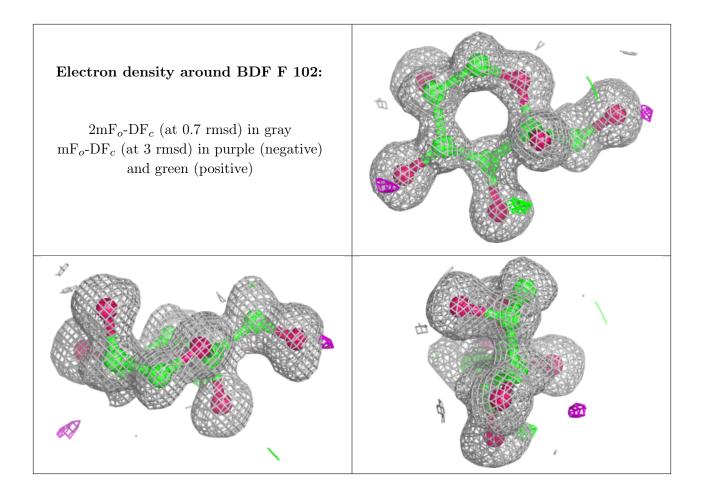












## 6.5 Other polymers (i)

There are no such residues in this entry.

