



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 20, 2020 – 04:12 PM BST

PDB ID : 4N3E
Title : Crystal structure of Hyp-1, a St John's wort PR-10 protein, in complex with 8-anilino-1-naphthalene sulfonate (ANS)
Authors : Sliwiak, J.; Dauter, Z.; Mccoy, A.J.; Read, R.J.; Jaskolski, M.
Deposited on : 2013-10-07
Resolution : 2.43 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 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 : 2.13
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) : 2.13

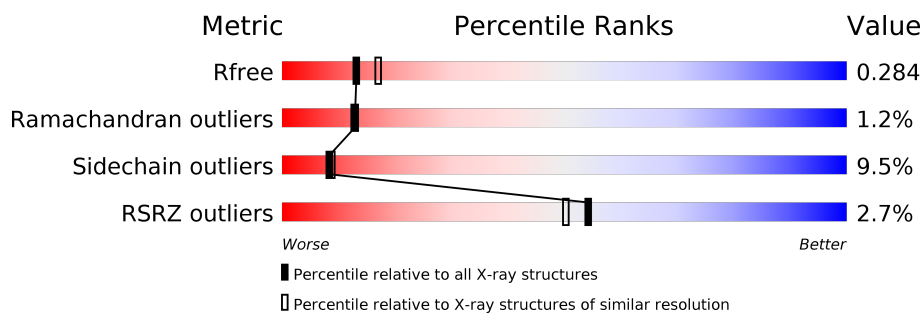
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.43 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	1564 (2.46-2.42)
Ramachandran outliers	138981	1617 (2.46-2.42)
Sidechain outliers	138945	1617 (2.46-2.42)
RSRZ outliers	127900	1547 (2.46-2.42)

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	165	<div> <div>4%</div> <div>84%</div> <div>12%</div> <div>.</div> </div>
1	B	165	<div> <div>5%</div> <div>85%</div> <div>10%</div> <div>..</div> </div>
1	C	165	<div> <div>3%</div> <div>85%</div> <div>12%</div> <div>.</div> </div>
1	D	165	<div> <div>5%</div> <div>87%</div> <div>8%</div> <div>..</div> </div>
1	E	165	<div> <div>86%</div> <div>10%</div> <div>.</div> </div>
1	F	165	<div> <div>4%</div> <div>87%</div> <div>9%</div> <div>.</div> </div>
1	G	165	<div> <div>2%</div> <div>82%</div> <div>12%</div> <div>..</div> </div>

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Mol	Chain	Length	Quality of chain
1	H	165	 90% 6% .
1	I	165	 87% 10% .
1	J	165	 86% 10% . .
1	K	165	 88% 8% . .
1	L	165	 87% 9% . .
1	M	165	 88% 8% .
1	N	165	 88% 8% .
1	O	165	 89% 7% . .
1	P	165	 87% 9% . .
1	Q	165	 89% 7% .
1	R	165	 88% 8% .
1	S	165	 90% 7% .
1	T	165	 85% 11% . .
1	U	165	 85% 12% .
1	V	165	 86% 10% .
1	W	165	 89% 7% .
1	X	165	 87% 10% .
1	Y	165	 85% 12% .
1	Z	165	 85% 10% . .
1	a	165	 90% 6% .
1	b	165	 90% 6% .

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 37252 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 Phenolic oxidative coupling protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	159	Total	C	N	O	S	0	1	0
			1269	820	204	241	4			
1	B	159	Total	C	N	O	S	1	0	0
			1256	813	203	236	4			
1	C	159	Total	C	N	O	S	0	0	0
			1256	813	203	236	4			
1	D	159	Total	C	N	O	S	0	0	0
			1257	814	203	236	4			
1	E	159	Total	C	N	O	S	1	0	0
			1260	815	203	238	4			
1	F	159	Total	C	N	O	S	0	0	0
			1257	814	202	237	4			
1	G	159	Total	C	N	O	S	0	0	0
			1259	815	202	238	4			
1	H	159	Total	C	N	O	S	0	0	0
			1260	815	203	238	4			
1	I	159	Total	C	N	O	S	0	0	0
			1255	813	202	236	4			
1	J	159	Total	C	N	O	S	0	0	0
			1255	812	203	236	4			
1	K	159	Total	C	N	O	S	0	0	0
			1260	815	203	238	4			
1	L	159	Total	C	N	O	S	1	0	0
			1260	815	203	238	4			
1	M	159	Total	C	N	O	S	0	0	0
			1256	813	203	236	4			
1	N	159	Total	C	N	O	S	0	1	0
			1269	820	204	241	4			
1	O	159	Total	C	N	O	S	0	0	0
			1258	814	203	237	4			
1	P	159	Total	C	N	O	S	0	0	0
			1260	815	203	238	4			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	Q	159	Total	C	N	O	S	0	0	0
			1257	812	203	238	4			
1	R	159	Total	C	N	O	S	1	0	0
			1260	815	203	238	4			
1	S	159	Total	C	N	O	S	0	0	0
			1257	812	203	238	4			
1	T	159	Total	C	N	O	S	0	6	0
			1307	844	210	249	4			
1	U	159	Total	C	N	O	S	1	0	0
			1260	815	203	238	4			
1	V	159	Total	C	N	O	S	0	0	0
			1257	814	203	236	4			
1	W	159	Total	C	N	O	S	0	0	0
			1258	814	203	237	4			
1	X	159	Total	C	N	O	S	0	0	0
			1260	815	203	238	4			
1	Y	159	Total	C	N	O	S	1	0	0
			1260	815	203	238	4			
1	Z	159	Total	C	N	O	S	0	0	0
			1256	813	203	236	4			
1	a	159	Total	C	N	O	S	0	1	0
			1270	821	206	239	4			
1	b	159	Total	C	N	O	S	1	0	0
			1254	813	202	235	4			

There are 252 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-5	GLY	-	EXPRESSION TAG	UNP Q8H1L1
A	-4	ILE	-	EXPRESSION TAG	UNP Q8H1L1
A	-3	ASP	-	EXPRESSION TAG	UNP Q8H1L1
A	-2	PRO	-	EXPRESSION TAG	UNP Q8H1L1
A	-1	PHE	-	EXPRESSION TAG	UNP Q8H1L1
A	0	THR	-	EXPRESSION TAG	UNP Q8H1L1
A	14	ILE	THR	SEE REMARK 999	UNP Q8H1L1
A	86	LEU	ILE	SEE REMARK 999	UNP Q8H1L1
A	119	THR	SER	SEE REMARK 999	UNP Q8H1L1
B	-5	GLY	-	EXPRESSION TAG	UNP Q8H1L1
B	-4	ILE	-	EXPRESSION TAG	UNP Q8H1L1
B	-3	ASP	-	EXPRESSION TAG	UNP Q8H1L1
B	-2	PRO	-	EXPRESSION TAG	UNP Q8H1L1
B	-1	PHE	-	EXPRESSION TAG	UNP Q8H1L1
B	0	THR	-	EXPRESSION TAG	UNP Q8H1L1

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Chain	Residue	Modelled	Actual	Comment	Reference
B	14	ILE	THR	SEE REMARK 999	UNP Q8H1L1
B	86	LEU	ILE	SEE REMARK 999	UNP Q8H1L1
B	119	THR	SER	SEE REMARK 999	UNP Q8H1L1
C	-5	GLY	-	EXPRESSION TAG	UNP Q8H1L1
C	-4	ILE	-	EXPRESSION TAG	UNP Q8H1L1
C	-3	ASP	-	EXPRESSION TAG	UNP Q8H1L1
C	-2	PRO	-	EXPRESSION TAG	UNP Q8H1L1
C	-1	PHE	-	EXPRESSION TAG	UNP Q8H1L1
C	0	THR	-	EXPRESSION TAG	UNP Q8H1L1
C	14	ILE	THR	SEE REMARK 999	UNP Q8H1L1
C	86	LEU	ILE	SEE REMARK 999	UNP Q8H1L1
C	119	THR	SER	SEE REMARK 999	UNP Q8H1L1
D	-5	GLY	-	EXPRESSION TAG	UNP Q8H1L1
D	-4	ILE	-	EXPRESSION TAG	UNP Q8H1L1
D	-3	ASP	-	EXPRESSION TAG	UNP Q8H1L1
D	-2	PRO	-	EXPRESSION TAG	UNP Q8H1L1
D	-1	PHE	-	EXPRESSION TAG	UNP Q8H1L1
D	0	THR	-	EXPRESSION TAG	UNP Q8H1L1
D	14	ILE	THR	SEE REMARK 999	UNP Q8H1L1
D	86	LEU	ILE	SEE REMARK 999	UNP Q8H1L1
D	119	THR	SER	SEE REMARK 999	UNP Q8H1L1
E	-5	GLY	-	EXPRESSION TAG	UNP Q8H1L1
E	-4	ILE	-	EXPRESSION TAG	UNP Q8H1L1
E	-3	ASP	-	EXPRESSION TAG	UNP Q8H1L1
E	-2	PRO	-	EXPRESSION TAG	UNP Q8H1L1
E	-1	PHE	-	EXPRESSION TAG	UNP Q8H1L1
E	0	THR	-	EXPRESSION TAG	UNP Q8H1L1
E	14	ILE	THR	SEE REMARK 999	UNP Q8H1L1
E	86	LEU	ILE	SEE REMARK 999	UNP Q8H1L1
E	119	THR	SER	SEE REMARK 999	UNP Q8H1L1
F	-5	GLY	-	EXPRESSION TAG	UNP Q8H1L1
F	-4	ILE	-	EXPRESSION TAG	UNP Q8H1L1
F	-3	ASP	-	EXPRESSION TAG	UNP Q8H1L1
F	-2	PRO	-	EXPRESSION TAG	UNP Q8H1L1
F	-1	PHE	-	EXPRESSION TAG	UNP Q8H1L1
F	0	THR	-	EXPRESSION TAG	UNP Q8H1L1
F	14	ILE	THR	SEE REMARK 999	UNP Q8H1L1
F	86	LEU	ILE	SEE REMARK 999	UNP Q8H1L1
F	119	THR	SER	SEE REMARK 999	UNP Q8H1L1
G	-5	GLY	-	EXPRESSION TAG	UNP Q8H1L1
G	-4	ILE	-	EXPRESSION TAG	UNP Q8H1L1
G	-3	ASP	-	EXPRESSION TAG	UNP Q8H1L1

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Chain	Residue	Modelled	Actual	Comment	Reference
G	-2	PRO	-	EXPRESSION TAG	UNP Q8H1L1
G	-1	PHE	-	EXPRESSION TAG	UNP Q8H1L1
G	0	THR	-	EXPRESSION TAG	UNP Q8H1L1
G	14	ILE	THR	SEE REMARK 999	UNP Q8H1L1
G	86	LEU	ILE	SEE REMARK 999	UNP Q8H1L1
G	119	THR	SER	SEE REMARK 999	UNP Q8H1L1
H	-5	GLY	-	EXPRESSION TAG	UNP Q8H1L1
H	-4	ILE	-	EXPRESSION TAG	UNP Q8H1L1
H	-3	ASP	-	EXPRESSION TAG	UNP Q8H1L1
H	-2	PRO	-	EXPRESSION TAG	UNP Q8H1L1
H	-1	PHE	-	EXPRESSION TAG	UNP Q8H1L1
H	0	THR	-	EXPRESSION TAG	UNP Q8H1L1
H	14	ILE	THR	SEE REMARK 999	UNP Q8H1L1
H	86	LEU	ILE	SEE REMARK 999	UNP Q8H1L1
H	119	THR	SER	SEE REMARK 999	UNP Q8H1L1
I	-5	GLY	-	EXPRESSION TAG	UNP Q8H1L1
I	-4	ILE	-	EXPRESSION TAG	UNP Q8H1L1
I	-3	ASP	-	EXPRESSION TAG	UNP Q8H1L1
I	-2	PRO	-	EXPRESSION TAG	UNP Q8H1L1
I	-1	PHE	-	EXPRESSION TAG	UNP Q8H1L1
I	0	THR	-	EXPRESSION TAG	UNP Q8H1L1
I	14	ILE	THR	SEE REMARK 999	UNP Q8H1L1
I	86	LEU	ILE	SEE REMARK 999	UNP Q8H1L1
I	119	THR	SER	SEE REMARK 999	UNP Q8H1L1
J	-5	GLY	-	EXPRESSION TAG	UNP Q8H1L1
J	-4	ILE	-	EXPRESSION TAG	UNP Q8H1L1
J	-3	ASP	-	EXPRESSION TAG	UNP Q8H1L1
J	-2	PRO	-	EXPRESSION TAG	UNP Q8H1L1
J	-1	PHE	-	EXPRESSION TAG	UNP Q8H1L1
J	0	THR	-	EXPRESSION TAG	UNP Q8H1L1
J	14	ILE	THR	SEE REMARK 999	UNP Q8H1L1
J	86	LEU	ILE	SEE REMARK 999	UNP Q8H1L1
J	119	THR	SER	SEE REMARK 999	UNP Q8H1L1
K	-5	GLY	-	EXPRESSION TAG	UNP Q8H1L1
K	-4	ILE	-	EXPRESSION TAG	UNP Q8H1L1
K	-3	ASP	-	EXPRESSION TAG	UNP Q8H1L1
K	-2	PRO	-	EXPRESSION TAG	UNP Q8H1L1
K	-1	PHE	-	EXPRESSION TAG	UNP Q8H1L1
K	0	THR	-	EXPRESSION TAG	UNP Q8H1L1
K	14	ILE	THR	SEE REMARK 999	UNP Q8H1L1
K	86	LEU	ILE	SEE REMARK 999	UNP Q8H1L1
K	119	THR	SER	SEE REMARK 999	UNP Q8H1L1

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Chain	Residue	Modelled	Actual	Comment	Reference
L	-5	GLY	-	EXPRESSION TAG	UNP Q8H1L1
L	-4	ILE	-	EXPRESSION TAG	UNP Q8H1L1
L	-3	ASP	-	EXPRESSION TAG	UNP Q8H1L1
L	-2	PRO	-	EXPRESSION TAG	UNP Q8H1L1
L	-1	PHE	-	EXPRESSION TAG	UNP Q8H1L1
L	0	THR	-	EXPRESSION TAG	UNP Q8H1L1
L	14	ILE	THR	SEE REMARK 999	UNP Q8H1L1
L	86	LEU	ILE	SEE REMARK 999	UNP Q8H1L1
L	119	THR	SER	SEE REMARK 999	UNP Q8H1L1
M	-5	GLY	-	EXPRESSION TAG	UNP Q8H1L1
M	-4	ILE	-	EXPRESSION TAG	UNP Q8H1L1
M	-3	ASP	-	EXPRESSION TAG	UNP Q8H1L1
M	-2	PRO	-	EXPRESSION TAG	UNP Q8H1L1
M	-1	PHE	-	EXPRESSION TAG	UNP Q8H1L1
M	0	THR	-	EXPRESSION TAG	UNP Q8H1L1
M	14	ILE	THR	SEE REMARK 999	UNP Q8H1L1
M	86	LEU	ILE	SEE REMARK 999	UNP Q8H1L1
M	119	THR	SER	SEE REMARK 999	UNP Q8H1L1
N	-5	GLY	-	EXPRESSION TAG	UNP Q8H1L1
N	-4	ILE	-	EXPRESSION TAG	UNP Q8H1L1
N	-3	ASP	-	EXPRESSION TAG	UNP Q8H1L1
N	-2	PRO	-	EXPRESSION TAG	UNP Q8H1L1
N	-1	PHE	-	EXPRESSION TAG	UNP Q8H1L1
N	0	THR	-	EXPRESSION TAG	UNP Q8H1L1
N	14	ILE	THR	SEE REMARK 999	UNP Q8H1L1
N	86	LEU	ILE	SEE REMARK 999	UNP Q8H1L1
N	119	THR	SER	SEE REMARK 999	UNP Q8H1L1
O	-5	GLY	-	EXPRESSION TAG	UNP Q8H1L1
O	-4	ILE	-	EXPRESSION TAG	UNP Q8H1L1
O	-3	ASP	-	EXPRESSION TAG	UNP Q8H1L1
O	-2	PRO	-	EXPRESSION TAG	UNP Q8H1L1
O	-1	PHE	-	EXPRESSION TAG	UNP Q8H1L1
O	0	THR	-	EXPRESSION TAG	UNP Q8H1L1
O	14	ILE	THR	SEE REMARK 999	UNP Q8H1L1
O	86	LEU	ILE	SEE REMARK 999	UNP Q8H1L1
O	119	THR	SER	SEE REMARK 999	UNP Q8H1L1
P	-5	GLY	-	EXPRESSION TAG	UNP Q8H1L1
P	-4	ILE	-	EXPRESSION TAG	UNP Q8H1L1
P	-3	ASP	-	EXPRESSION TAG	UNP Q8H1L1
P	-2	PRO	-	EXPRESSION TAG	UNP Q8H1L1
P	-1	PHE	-	EXPRESSION TAG	UNP Q8H1L1
P	0	THR	-	EXPRESSION TAG	UNP Q8H1L1

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Chain	Residue	Modelled	Actual	Comment	Reference
P	14	ILE	THR	SEE REMARK 999	UNP Q8H1L1
P	86	LEU	ILE	SEE REMARK 999	UNP Q8H1L1
P	119	THR	SER	SEE REMARK 999	UNP Q8H1L1
Q	-5	GLY	-	EXPRESSION TAG	UNP Q8H1L1
Q	-4	ILE	-	EXPRESSION TAG	UNP Q8H1L1
Q	-3	ASP	-	EXPRESSION TAG	UNP Q8H1L1
Q	-2	PRO	-	EXPRESSION TAG	UNP Q8H1L1
Q	-1	PHE	-	EXPRESSION TAG	UNP Q8H1L1
Q	0	THR	-	EXPRESSION TAG	UNP Q8H1L1
Q	14	ILE	THR	SEE REMARK 999	UNP Q8H1L1
Q	86	LEU	ILE	SEE REMARK 999	UNP Q8H1L1
Q	119	THR	SER	SEE REMARK 999	UNP Q8H1L1
R	-5	GLY	-	EXPRESSION TAG	UNP Q8H1L1
R	-4	ILE	-	EXPRESSION TAG	UNP Q8H1L1
R	-3	ASP	-	EXPRESSION TAG	UNP Q8H1L1
R	-2	PRO	-	EXPRESSION TAG	UNP Q8H1L1
R	-1	PHE	-	EXPRESSION TAG	UNP Q8H1L1
R	0	THR	-	EXPRESSION TAG	UNP Q8H1L1
R	14	ILE	THR	SEE REMARK 999	UNP Q8H1L1
R	86	LEU	ILE	SEE REMARK 999	UNP Q8H1L1
R	119	THR	SER	SEE REMARK 999	UNP Q8H1L1
S	-5	GLY	-	EXPRESSION TAG	UNP Q8H1L1
S	-4	ILE	-	EXPRESSION TAG	UNP Q8H1L1
S	-3	ASP	-	EXPRESSION TAG	UNP Q8H1L1
S	-2	PRO	-	EXPRESSION TAG	UNP Q8H1L1
S	-1	PHE	-	EXPRESSION TAG	UNP Q8H1L1
S	0	THR	-	EXPRESSION TAG	UNP Q8H1L1
S	14	ILE	THR	SEE REMARK 999	UNP Q8H1L1
S	86	LEU	ILE	SEE REMARK 999	UNP Q8H1L1
S	119	THR	SER	SEE REMARK 999	UNP Q8H1L1
T	-5	GLY	-	EXPRESSION TAG	UNP Q8H1L1
T	-4	ILE	-	EXPRESSION TAG	UNP Q8H1L1
T	-3	ASP	-	EXPRESSION TAG	UNP Q8H1L1
T	-2	PRO	-	EXPRESSION TAG	UNP Q8H1L1
T	-1	PHE	-	EXPRESSION TAG	UNP Q8H1L1
T	0	THR	-	EXPRESSION TAG	UNP Q8H1L1
T	14	ILE	THR	SEE REMARK 999	UNP Q8H1L1
T	86	LEU	ILE	SEE REMARK 999	UNP Q8H1L1
T	119	THR	SER	SEE REMARK 999	UNP Q8H1L1
U	-5	GLY	-	EXPRESSION TAG	UNP Q8H1L1
U	-4	ILE	-	EXPRESSION TAG	UNP Q8H1L1
U	-3	ASP	-	EXPRESSION TAG	UNP Q8H1L1

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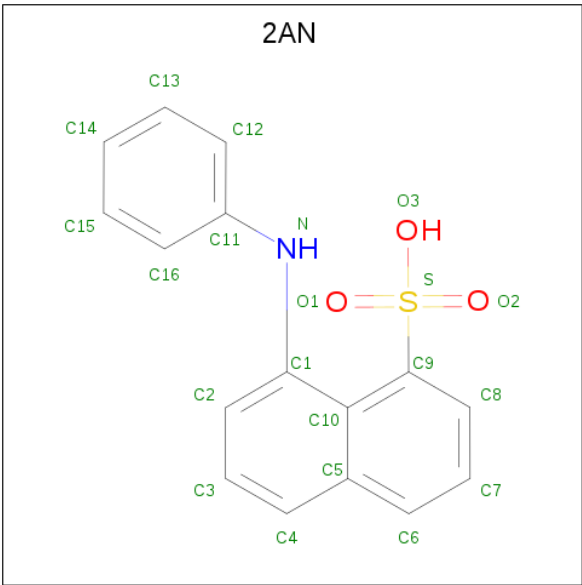
Chain	Residue	Modelled	Actual	Comment	Reference
U	-2	PRO	-	EXPRESSION TAG	UNP Q8H1L1
U	-1	PHE	-	EXPRESSION TAG	UNP Q8H1L1
U	0	THR	-	EXPRESSION TAG	UNP Q8H1L1
U	14	ILE	THR	SEE REMARK 999	UNP Q8H1L1
U	86	LEU	ILE	SEE REMARK 999	UNP Q8H1L1
U	119	THR	SER	SEE REMARK 999	UNP Q8H1L1
V	-5	GLY	-	EXPRESSION TAG	UNP Q8H1L1
V	-4	ILE	-	EXPRESSION TAG	UNP Q8H1L1
V	-3	ASP	-	EXPRESSION TAG	UNP Q8H1L1
V	-2	PRO	-	EXPRESSION TAG	UNP Q8H1L1
V	-1	PHE	-	EXPRESSION TAG	UNP Q8H1L1
V	0	THR	-	EXPRESSION TAG	UNP Q8H1L1
V	14	ILE	THR	SEE REMARK 999	UNP Q8H1L1
V	86	LEU	ILE	SEE REMARK 999	UNP Q8H1L1
V	119	THR	SER	SEE REMARK 999	UNP Q8H1L1
W	-5	GLY	-	EXPRESSION TAG	UNP Q8H1L1
W	-4	ILE	-	EXPRESSION TAG	UNP Q8H1L1
W	-3	ASP	-	EXPRESSION TAG	UNP Q8H1L1
W	-2	PRO	-	EXPRESSION TAG	UNP Q8H1L1
W	-1	PHE	-	EXPRESSION TAG	UNP Q8H1L1
W	0	THR	-	EXPRESSION TAG	UNP Q8H1L1
W	14	ILE	THR	SEE REMARK 999	UNP Q8H1L1
W	86	LEU	ILE	SEE REMARK 999	UNP Q8H1L1
W	119	THR	SER	SEE REMARK 999	UNP Q8H1L1
X	-5	GLY	-	EXPRESSION TAG	UNP Q8H1L1
X	-4	ILE	-	EXPRESSION TAG	UNP Q8H1L1
X	-3	ASP	-	EXPRESSION TAG	UNP Q8H1L1
X	-2	PRO	-	EXPRESSION TAG	UNP Q8H1L1
X	-1	PHE	-	EXPRESSION TAG	UNP Q8H1L1
X	0	THR	-	EXPRESSION TAG	UNP Q8H1L1
X	14	ILE	THR	SEE REMARK 999	UNP Q8H1L1
X	86	LEU	ILE	SEE REMARK 999	UNP Q8H1L1
X	119	THR	SER	SEE REMARK 999	UNP Q8H1L1
Y	-5	GLY	-	EXPRESSION TAG	UNP Q8H1L1
Y	-4	ILE	-	EXPRESSION TAG	UNP Q8H1L1
Y	-3	ASP	-	EXPRESSION TAG	UNP Q8H1L1
Y	-2	PRO	-	EXPRESSION TAG	UNP Q8H1L1
Y	-1	PHE	-	EXPRESSION TAG	UNP Q8H1L1
Y	0	THR	-	EXPRESSION TAG	UNP Q8H1L1
Y	14	ILE	THR	SEE REMARK 999	UNP Q8H1L1
Y	86	LEU	ILE	SEE REMARK 999	UNP Q8H1L1
Y	119	THR	SER	SEE REMARK 999	UNP Q8H1L1

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Chain	Residue	Modelled	Actual	Comment	Reference
Z	-5	GLY	-	EXPRESSION TAG	UNP Q8H1L1
Z	-4	ILE	-	EXPRESSION TAG	UNP Q8H1L1
Z	-3	ASP	-	EXPRESSION TAG	UNP Q8H1L1
Z	-2	PRO	-	EXPRESSION TAG	UNP Q8H1L1
Z	-1	PHE	-	EXPRESSION TAG	UNP Q8H1L1
Z	0	THR	-	EXPRESSION TAG	UNP Q8H1L1
Z	14	ILE	THR	SEE REMARK 999	UNP Q8H1L1
Z	86	LEU	ILE	SEE REMARK 999	UNP Q8H1L1
Z	119	THR	SER	SEE REMARK 999	UNP Q8H1L1
a	-5	GLY	-	EXPRESSION TAG	UNP Q8H1L1
a	-4	ILE	-	EXPRESSION TAG	UNP Q8H1L1
a	-3	ASP	-	EXPRESSION TAG	UNP Q8H1L1
a	-2	PRO	-	EXPRESSION TAG	UNP Q8H1L1
a	-1	PHE	-	EXPRESSION TAG	UNP Q8H1L1
a	0	THR	-	EXPRESSION TAG	UNP Q8H1L1
a	14	ILE	THR	SEE REMARK 999	UNP Q8H1L1
a	86	LEU	ILE	SEE REMARK 999	UNP Q8H1L1
a	119	THR	SER	SEE REMARK 999	UNP Q8H1L1
b	-5	GLY	-	EXPRESSION TAG	UNP Q8H1L1
b	-4	ILE	-	EXPRESSION TAG	UNP Q8H1L1
b	-3	ASP	-	EXPRESSION TAG	UNP Q8H1L1
b	-2	PRO	-	EXPRESSION TAG	UNP Q8H1L1
b	-1	PHE	-	EXPRESSION TAG	UNP Q8H1L1
b	0	THR	-	EXPRESSION TAG	UNP Q8H1L1
b	14	ILE	THR	SEE REMARK 999	UNP Q8H1L1
b	86	LEU	ILE	SEE REMARK 999	UNP Q8H1L1
b	119	THR	SER	SEE REMARK 999	UNP Q8H1L1

- Molecule 2 is 8-ANILINO-1-NAPHTHALENE SULFONATE (three-letter code: 2AN) (formula: C₁₆H₁₃NO₃S).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	A	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	A	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	A	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	B	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	B	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	B	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	B	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	C	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	C	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	C	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	C	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	D	1	Total	C	N	O	S	0	0
			21	16	1	3	1		

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	D	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	D	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	E	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	E	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	E	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	E	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	F	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	G	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	G	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	G	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	G	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	G	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	H	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	H	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	H	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	I	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	I	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	I	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	I	1	Total	C	N	O	S	0	0
			21	16	1	3	1		

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	J	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	J	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	K	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	K	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	K	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	L	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	L	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	L	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	L	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	M	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	M	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	M	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	N	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	N	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	N	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	N	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	O	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	O	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	P	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	P	1	Total	C	N	O	S	0	0
			21	16	1	3	1		

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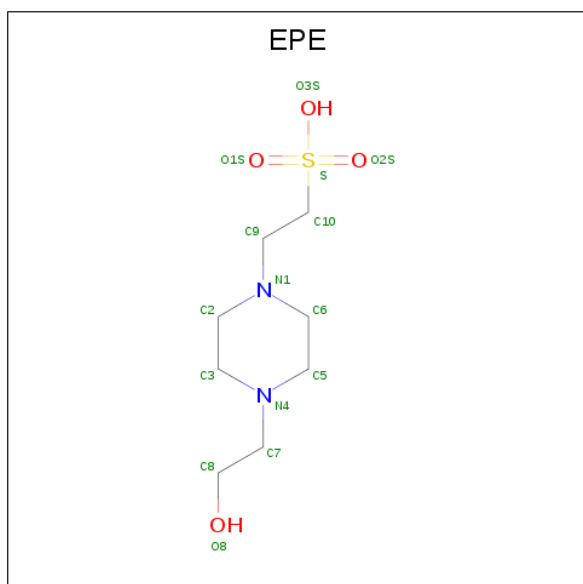
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2	Q	1	Total 21	C 16	N 1	O 3	S 1	0	0
2	R	1	Total 21	C 16	N 1	O 3	S 1	0	0
2	R	1	Total 21	C 16	N 1	O 3	S 1	0	0
2	R	1	Total 21	C 16	N 1	O 3	S 1	0	0
2	R	1	Total 21	C 16	N 1	O 3	S 1	0	0
2	S	1	Total 21	C 16	N 1	O 3	S 1	0	0
2	U	1	Total 21	C 16	N 1	O 3	S 1	0	0
2	U	1	Total 21	C 16	N 1	O 3	S 1	0	0
2	U	1	Total 21	C 16	N 1	O 3	S 1	0	0
2	U	1	Total 21	C 16	N 1	O 3	S 1	0	0
2	U	1	Total 21	C 16	N 1	O 3	S 1	0	0
2	V	1	Total 21	C 16	N 1	O 3	S 1	0	0
2	V	1	Total 21	C 16	N 1	O 3	S 1	0	0
2	W	1	Total 21	C 16	N 1	O 3	S 1	0	0
2	W	1	Total 21	C 16	N 1	O 3	S 1	0	0
2	W	1	Total 21	C 16	N 1	O 3	S 1	0	0
2	W	1	Total 21	C 16	N 1	O 3	S 1	0	0
2	X	1	Total 21	C 16	N 1	O 3	S 1	0	0
2	X	1	Total 21	C 16	N 1	O 3	S 1	0	0

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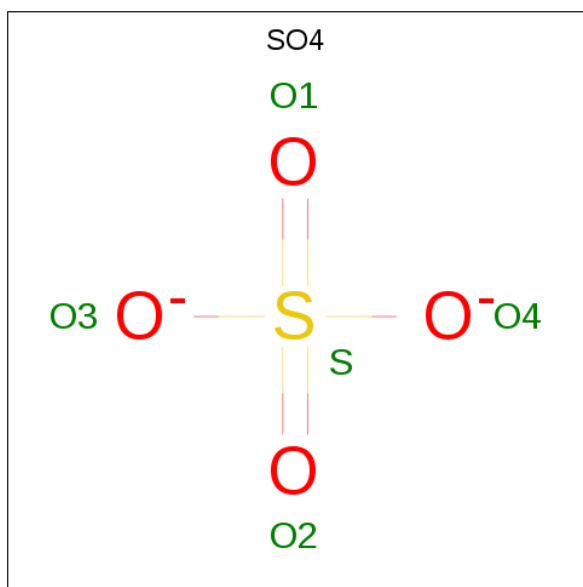
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
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			21	16	1	3	1		
2	Y	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	Y	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	Y	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	Y	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	Z	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	Z	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	Z	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	a	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	b	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	b	1	Total	C	N	O	S	0	0
			21	16	1	3	1		
2	b	1	Total	C	N	O	S	0	0
			21	16	1	3	1		

- Molecule 3 is 4-(2-HYDROXYETHYL)-1-PIPERAZINE ETHANESULFONIC ACID (three-letter code: EPE) (formula: C₈H₁₈N₂O₄S).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	C	1	Total	C	N	O	S	0	0
			15	8	2	4	1		
3	Z	1	Total	C	N	O	S	0	0
			15	8	2	4	1		

- Molecule 4 is SULFATE ION (three-letter code: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	V	1	Total	O	S	0	0
			5	4	1		
4	X	1	Total	O	S	0	0
			5	4	1		
4	b	1	Total	O	S	0	0
			5	4	1		

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	5	Total	O	0	0
			5	5		
5	C	2	Total	O	0	0
			2	2		
5	D	1	Total	O	0	0
			1	1		
5	E	2	Total	O	0	0
			2	2		
5	F	2	Total	O	0	0
			2	2		

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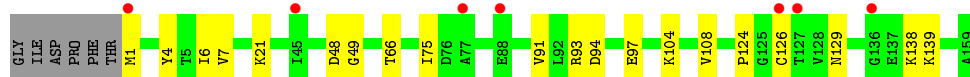
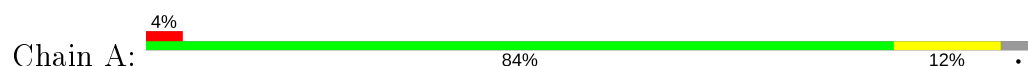
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	G	1	Total 1	O 1	0	0
5	H	4	Total 4	O 4	0	0
5	I	2	Total 2	O 2	0	0
5	L	2	Total 2	O 2	0	0
5	R	2	Total 2	O 2	0	0
5	T	1	Total 1	O 1	0	0
5	U	1	Total 1	O 1	0	0
5	W	2	Total 2	O 2	0	0
5	Y	2	Total 2	O 2	0	0
5	Z	3	Total 3	O 3	0	0
5	a	2	Total 2	O 2	0	0
5	b	1	Total 1	O 1	0	0

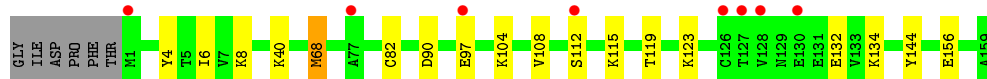
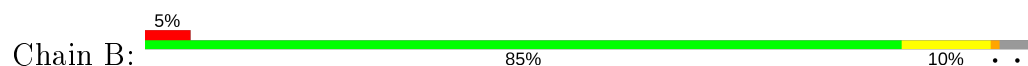
3 Residue-property plots [i](#)

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.

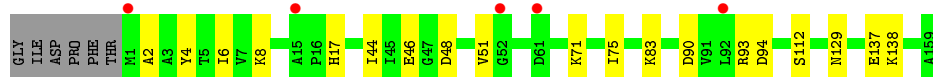
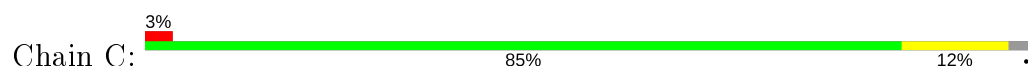
- Molecule 1: Phenolic oxidative coupling protein



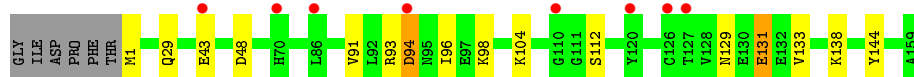
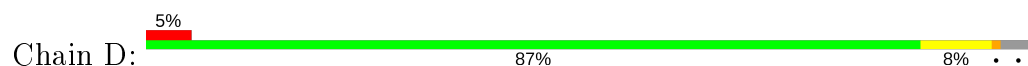
- Molecule 1: Phenolic oxidative coupling protein



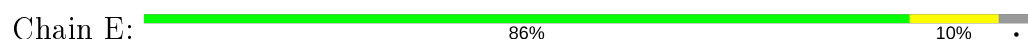
- Molecule 1: Phenolic oxidative coupling protein



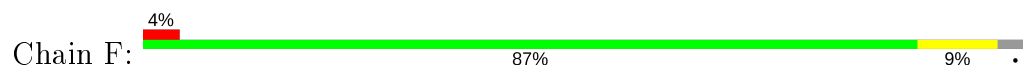
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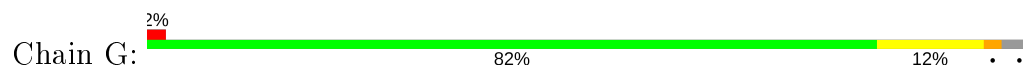
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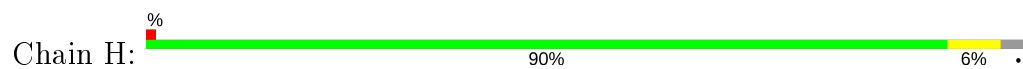
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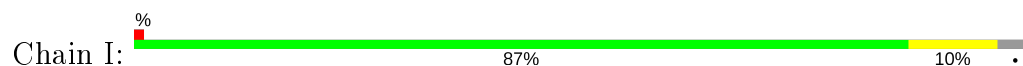
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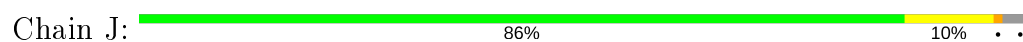
- Molecule 1: Phenolic oxidative coupling protein



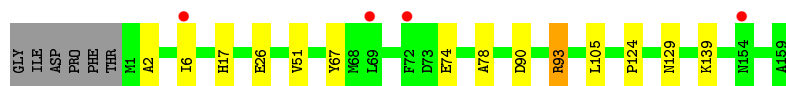
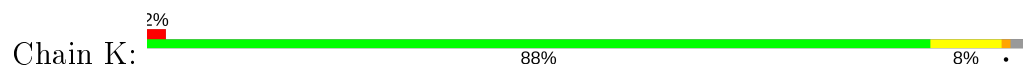
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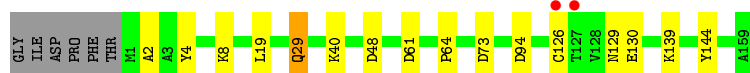
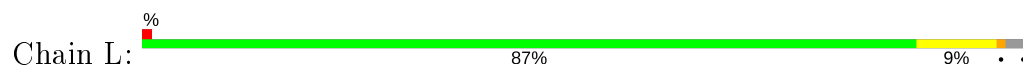
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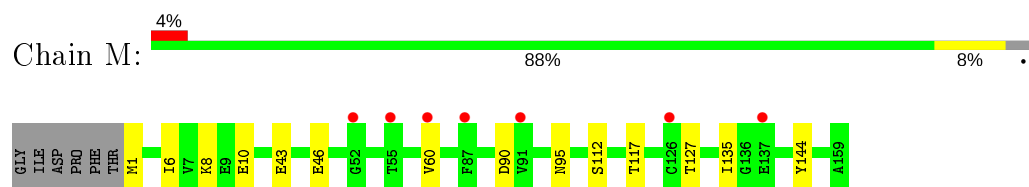
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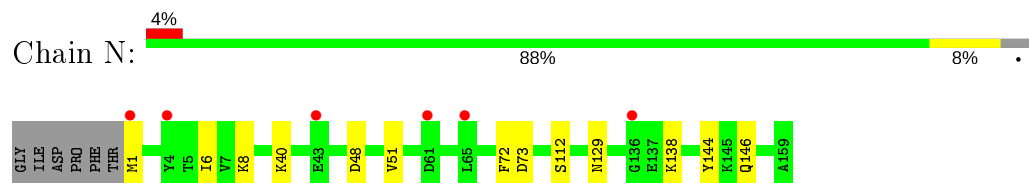
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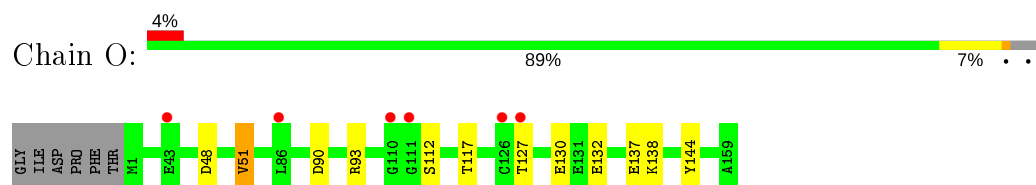
- Molecule 1: Phenolic oxidative coupling protein



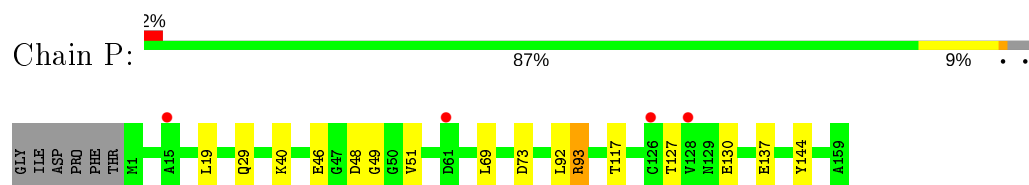
- Molecule 1: Phenolic oxidative coupling protein



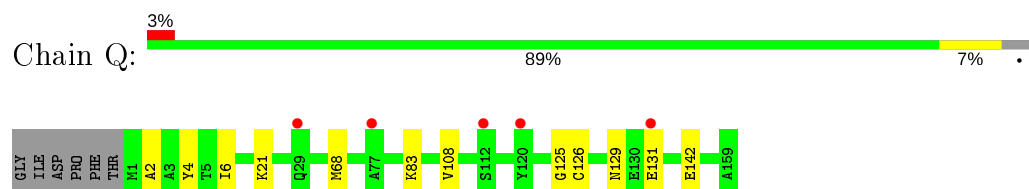
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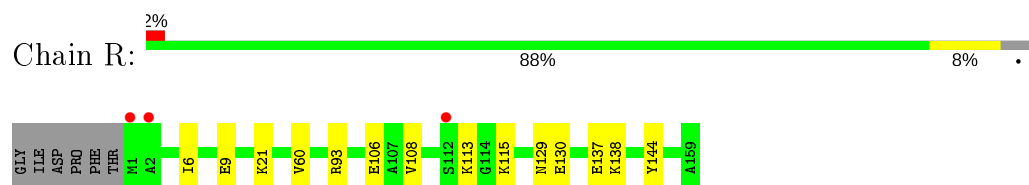
- Molecule 1: Phenolic oxidative coupling protein



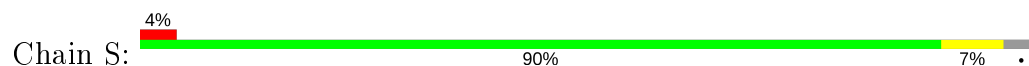
- Molecule 1: Phenolic oxidative coupling protein



- Molecule 1: Phenolic oxidative coupling protein

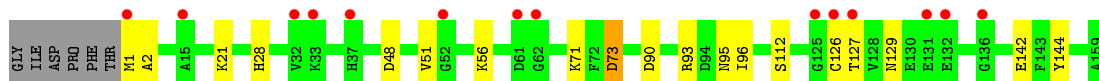
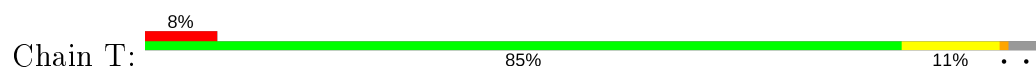


- Molecule 1: Phenolic oxidative coupling protein

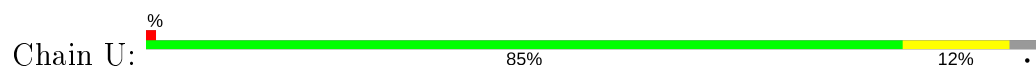




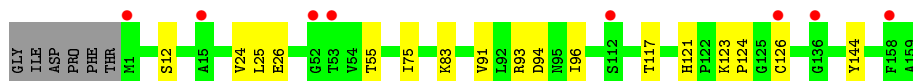
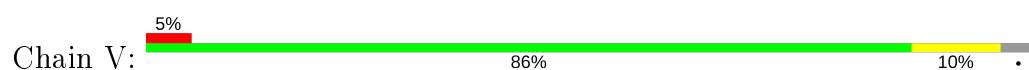
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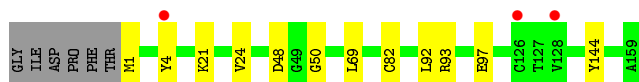
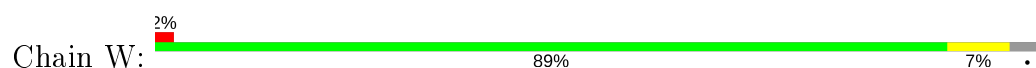
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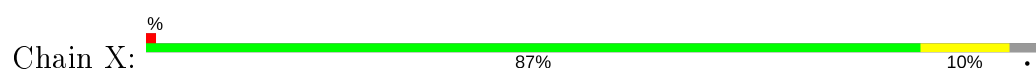
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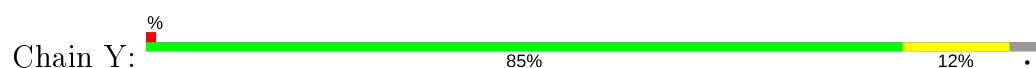
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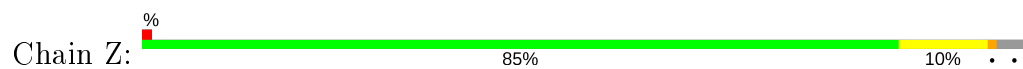
- Molecule 1: Phenolic oxidative coupling protein



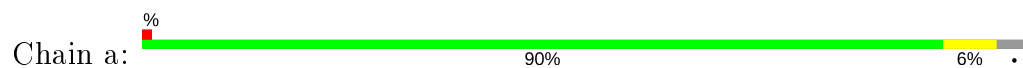
- Molecule 1: Phenolic oxidative coupling protein



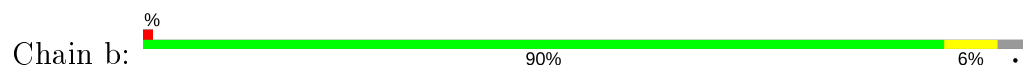
- Molecule 1: Phenolic oxidative coupling protein



- Molecule 1: Phenolic oxidative coupling protein



- Molecule 1: Phenolic oxidative coupling protein



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	146.29Å 146.29Å 298.56Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.87 – 2.43 48.87 – 2.43	Depositor EDS
% Data completeness (in resolution range)	99.7 (48.87-2.43) 99.7 (48.87-2.43)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.69 (at 2.42Å)	Xtriage
Refinement program	REFMAC 5.7.0029	Depositor
R, R_{free}	0.223 , 0.278 0.229 , 0.284	Depositor DCC
R_{free} test set	3078 reflections (1.31%)	wwPDB-VP
Wilson B-factor (Å ²)	49.9	Xtriage
Anisotropy	0.143	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 22.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.489 for k,h,-l 0.489 for -k,-h,-l 0.489 for -h,-k,l	Xtriage
Reported twinning fraction	0.251 for H, K, L 0.292 for -K, -H, -L 0.249 for -h,-k,l 0.209 for K, H, -L	Depositor
Outliers	2 of 235350 reflections (0.001%)	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	37252	wwPDB-VP
Average B, all atoms (Å ²)	46.0	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 67.36 % 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 5.2079e-06. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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: 2AN, EPE, SO4

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	0.74	0/1298	1.03	0/1753
1	B	0.81	0/1285	1.08	2/1736 (0.1%)
1	C	0.72	0/1285	1.04	1/1736 (0.1%)
1	D	0.69	0/1286	0.97	0/1737
1	E	0.93	0/1289	1.17	4/1741 (0.2%)
1	F	0.61	0/1286	0.93	2/1737 (0.1%)
1	G	0.97	1/1288 (0.1%)	1.17	4/1740 (0.2%)
1	H	0.77	0/1289	1.06	2/1741 (0.1%)
1	I	0.82	0/1284	1.09	2/1735 (0.1%)
1	J	0.93	0/1284	1.18	4/1734 (0.2%)
1	K	0.68	0/1289	1.01	0/1741
1	L	0.89	0/1289	1.17	2/1741 (0.1%)
1	M	0.75	0/1285	1.08	1/1736 (0.1%)
1	N	0.76	0/1298	1.05	0/1753
1	O	0.72	0/1287	1.04	1/1738 (0.1%)
1	P	0.70	0/1289	1.07	2/1741 (0.1%)
1	Q	0.70	0/1286	1.04	1/1737 (0.1%)
1	R	0.81	0/1289	1.11	0/1741
1	S	0.64	0/1286	0.99	0/1737
1	T	0.61	0/1337	0.96	2/1806 (0.1%)
1	U	0.91	0/1289	1.19	3/1741 (0.2%)
1	V	0.59	0/1286	0.94	0/1737
1	W	0.86	0/1287	1.14	2/1738 (0.1%)
1	X	0.78	0/1289	1.07	1/1741 (0.1%)
1	Y	0.81	0/1289	1.15	3/1741 (0.2%)
1	Z	0.82	0/1285	1.08	3/1736 (0.2%)
1	a	0.75	0/1300	1.06	0/1756
1	b	0.89	0/1283	1.18	1/1733 (0.1%)
All	All	0.78	1/36117 (0.0%)	1.08	43/48784 (0.1%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	148	GLU	CG-CD	-5.36	1.44	1.51

All (43) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	U	109	GLY	N-CA-C	-5.90	98.36	113.10
1	E	6	ILE	CB-CA-C	-5.87	99.87	111.60
1	G	51	VAL	CB-CA-C	-5.78	100.41	111.40
1	I	6	ILE	CB-CA-C	-5.76	100.08	111.60
1	W	50	GLY	N-CA-C	-5.75	98.74	113.10
1	G	112	SER	CB-CA-C	-5.72	99.24	110.10
1	Q	125	GLY	N-CA-C	-5.70	98.86	113.10
1	I	51	VAL	CB-CA-C	-5.69	100.58	111.40
1	H	61	ASP	CB-CG-OD2	5.65	123.38	118.30
1	O	51	VAL	CB-CA-C	-5.63	100.69	111.40
1	P	69	LEU	CA-CB-CG	5.61	128.20	115.30
1	T	73	ASP	CB-CG-OD1	-5.58	113.28	118.30
1	G	90	ASP	CB-CA-C	-5.58	99.25	110.40
1	E	76	ASP	CB-CG-OD2	5.54	123.29	118.30
1	Z	148	GLU	OE1-CD-OE2	5.51	129.91	123.30
1	b	116	ILE	CG1-CB-CG2	-5.50	99.30	111.40
1	J	93	ARG	NE-CZ-NH2	5.50	123.05	120.30
1	U	69	LEU	CB-CG-CD1	-5.49	101.67	111.00
1	E	27	ARG	NE-CZ-NH1	-5.44	117.58	120.30
1	F	18	ARG	NE-CZ-NH1	-5.41	117.59	120.30
1	G	148	GLU	OE1-CD-OE2	5.41	129.79	123.30
1	P	19	LEU	CB-CG-CD1	-5.41	101.81	111.00
1	F	67	TYR	CB-CA-C	5.30	121.00	110.40
1	L	73	ASP	CB-CG-OD1	5.30	123.07	118.30
1	J	27	ARG	NE-CZ-NH2	5.30	122.95	120.30
1	M	60	VAL	CB-CA-C	-5.29	101.35	111.40
1	Z	19	LEU	CA-CB-CG	5.28	127.45	115.30
1	B	68	MET	CG-SD-CE	-5.27	91.77	100.20
1	T	129	ASN	N-CA-C	-5.26	96.80	111.00
1	Y	93	ARG	NE-CZ-NH1	5.22	122.91	120.30
1	Y	93	ARG	NE-CZ-NH2	-5.21	117.69	120.30
1	Y	54	VAL	CG1-CB-CG2	-5.21	102.56	110.90
1	L	29	GLN	CB-CA-C	-5.17	100.05	110.40
1	J	50	GLY	N-CA-C	-5.16	100.20	113.10
1	U	23	LEU	CA-CB-CG	5.16	127.17	115.30
1	J	130	GLU	CB-CA-C	-5.15	100.11	110.40
1	X	29	GLN	CB-CA-C	-5.14	100.12	110.40
1	E	68	MET	CB-CA-C	-5.12	100.15	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	117	THR	CB-CA-C	-5.10	97.83	111.60
1	W	69	LEU	CA-CB-CG	5.10	127.03	115.30
1	C	83	LYS	N-CA-C	-5.07	97.31	111.00
1	Z	4	TYR	CA-CB-CG	5.05	123.00	113.40
1	B	132	GLU	N-CA-C	-5.01	97.46	111.00

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

Due to software issues we are unable to calculate clashes - this section is therefore empty.

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	158/165 (96%)	148 (94%)	7 (4%)	3 (2%)	8	6
1	B	157/165 (95%)	143 (91%)	12 (8%)	2 (1%)	12	11
1	C	157/165 (95%)	139 (88%)	16 (10%)	2 (1%)	12	11
1	D	157/165 (95%)	140 (89%)	14 (9%)	3 (2%)	8	6
1	E	157/165 (95%)	142 (90%)	12 (8%)	3 (2%)	8	6
1	F	157/165 (95%)	145 (92%)	11 (7%)	1 (1%)	25	29
1	G	157/165 (95%)	145 (92%)	9 (6%)	3 (2%)	8	6
1	H	157/165 (95%)	150 (96%)	7 (4%)	0	100	100
1	I	157/165 (95%)	145 (92%)	10 (6%)	2 (1%)	12	11
1	J	157/165 (95%)	143 (91%)	12 (8%)	2 (1%)	12	11
1	K	157/165 (95%)	143 (91%)	10 (6%)	4 (2%)	5	3
1	L	157/165 (95%)	149 (95%)	6 (4%)	2 (1%)	12	11

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	M	157/165 (95%)	147 (94%)	10 (6%)	0	100	100
1	N	158/165 (96%)	145 (92%)	13 (8%)	0	100	100
1	O	157/165 (95%)	147 (94%)	10 (6%)	0	100	100
1	P	157/165 (95%)	139 (88%)	14 (9%)	4 (2%)	5	3
1	Q	157/165 (95%)	142 (90%)	13 (8%)	2 (1%)	12	11
1	R	157/165 (95%)	146 (93%)	9 (6%)	2 (1%)	12	11
1	S	157/165 (95%)	141 (90%)	15 (10%)	1 (1%)	25	29
1	T	163/165 (99%)	151 (93%)	11 (7%)	1 (1%)	25	29
1	U	157/165 (95%)	145 (92%)	11 (7%)	1 (1%)	25	29
1	V	157/165 (95%)	139 (88%)	16 (10%)	2 (1%)	12	11
1	W	157/165 (95%)	151 (96%)	4 (2%)	2 (1%)	12	11
1	X	157/165 (95%)	148 (94%)	7 (4%)	2 (1%)	12	11
1	Y	157/165 (95%)	145 (92%)	11 (7%)	1 (1%)	25	29
1	Z	157/165 (95%)	142 (90%)	12 (8%)	3 (2%)	8	6
1	a	158/165 (96%)	143 (90%)	13 (8%)	2 (1%)	12	11
1	b	157/165 (95%)	141 (90%)	15 (10%)	1 (1%)	25	29
All	All	4405/4620 (95%)	4044 (92%)	310 (7%)	51 (1%)	13	13

All (51) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	D	94	ASP
1	D	131	GLU
1	E	126	CYS
1	I	2	ALA
1	J	3	ALA
1	L	2	ALA
1	L	129	ASN
1	P	93	ARG
1	Q	2	ALA
1	W	93	ARG
1	Z	93	ARG
1	a	93	ARG
1	A	108	VAL
1	B	108	VAL
1	D	133	VAL

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Mol	Chain	Res	Type
1	F	130	GLU
1	G	93	ARG
1	J	2	ALA
1	K	2	ALA
1	K	51	VAL
1	T	2	ALA
1	V	24	VAL
1	X	93	ARG
1	K	78	ALA
1	R	93	ARG
1	a	2	ALA
1	A	124	PRO
1	B	90	ASP
1	C	2	ALA
1	K	93	ARG
1	Q	108	VAL
1	P	92	LEU
1	R	108	VAL
1	S	144	TYR
1	V	124	PRO
1	b	46	GLU
1	C	75	ILE
1	P	130	GLU
1	U	47	GLY
1	Z	49	GLY
1	Z	64	PRO
1	E	49	GLY
1	I	108	VAL
1	W	24	VAL
1	Y	47	GLY
1	G	124	PRO
1	X	108	VAL
1	A	49	GLY
1	P	49	GLY
1	E	108	VAL
1	G	108	VAL

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	135/139 (97%)	118 (87%)	17 (13%)	4	3
1	B	133/139 (96%)	118 (89%)	15 (11%)	6	5
1	C	133/139 (96%)	117 (88%)	16 (12%)	5	4
1	D	133/139 (96%)	118 (89%)	15 (11%)	6	5
1	E	134/139 (96%)	124 (92%)	10 (8%)	13	16
1	F	133/139 (96%)	121 (91%)	12 (9%)	9	10
1	G	133/139 (96%)	114 (86%)	19 (14%)	3	2
1	H	134/139 (96%)	126 (94%)	8 (6%)	19	25
1	I	132/139 (95%)	120 (91%)	12 (9%)	9	10
1	J	133/139 (96%)	121 (91%)	12 (9%)	9	10
1	K	134/139 (96%)	123 (92%)	11 (8%)	11	13
1	L	134/139 (96%)	121 (90%)	13 (10%)	8	8
1	M	133/139 (96%)	120 (90%)	13 (10%)	8	8
1	N	135/139 (97%)	122 (90%)	13 (10%)	8	8
1	O	133/139 (96%)	121 (91%)	12 (9%)	9	10
1	P	134/139 (96%)	123 (92%)	11 (8%)	11	13
1	Q	133/139 (96%)	124 (93%)	9 (7%)	16	19
1	R	134/139 (96%)	122 (91%)	12 (9%)	9	10
1	S	133/139 (96%)	123 (92%)	10 (8%)	13	16
1	T	139/139 (100%)	121 (87%)	18 (13%)	4	3
1	U	134/139 (96%)	119 (89%)	15 (11%)	6	5
1	V	133/139 (96%)	118 (89%)	15 (11%)	6	5
1	W	133/139 (96%)	125 (94%)	8 (6%)	19	25
1	X	134/139 (96%)	121 (90%)	13 (10%)	8	8
1	Y	134/139 (96%)	118 (88%)	16 (12%)	5	4
1	Z	133/139 (96%)	120 (90%)	13 (10%)	8	8
1	a	135/139 (97%)	127 (94%)	8 (6%)	19	25
1	b	132/139 (95%)	124 (94%)	8 (6%)	18	24
All	All	3743/3892 (96%)	3389 (90%)	354 (10%)	8	9

All (354) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	MET
1	A	4	TYR
1	A	6	ILE
1	A	7	VAL
1	A	21	LYS
1	A	48	ASP
1	A	66	THR
1	A	75	ILE
1	A	91	VAL
1	A	93	ARG
1	A	94	ASP
1	A	97	GLU
1	A	104	LYS
1	A	126	CYS
1	A	129	ASN
1	A	138	LYS
1	A	139	LYS
1	B	4	TYR
1	B	6	ILE
1	B	8	LYS
1	B	40	LYS
1	B	68	MET
1	B	82	CYS
1	B	97	GLU
1	B	104	LYS
1	B	112	SER
1	B	115	LYS
1	B	119	THR
1	B	123	LYS
1	B	134	LYS
1	B	144	TYR
1	B	156	GLU
1	C	4	TYR
1	C	6	ILE
1	C	8	LYS
1	C	17	HIS
1	C	44	ILE
1	C	46	GLU
1	C	48	ASP
1	C	51	VAL
1	C	71	LYS
1	C	90	ASP
1	C	93	ARG

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Mol	Chain	Res	Type
1	C	94	ASP
1	C	112	SER
1	C	129	ASN
1	C	137	GLU
1	C	138	LYS
1	D	1	MET
1	D	29	GLN
1	D	43	GLU
1	D	48	ASP
1	D	91	VAL
1	D	93	ARG
1	D	94	ASP
1	D	96	ILE
1	D	98	LYS
1	D	104	LYS
1	D	112	SER
1	D	129	ASN
1	D	131	GLU
1	D	138	LYS
1	D	144	TYR
1	E	1	MET
1	E	8	LYS
1	E	90	ASP
1	E	93	ARG
1	E	112	SER
1	E	115	LYS
1	E	132	GLU
1	E	138	LYS
1	E	139	LYS
1	E	156	GLU
1	F	1	MET
1	F	4	TYR
1	F	8	LYS
1	F	75	ILE
1	F	79	ASN
1	F	90	ASP
1	F	93	ARG
1	F	104	LYS
1	F	144	TYR
1	F	149	GLU
1	F	156	GLU
1	F	157	VAL

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Mol	Chain	Res	Type
1	G	4	TYR
1	G	6	ILE
1	G	8	LYS
1	G	17	HIS
1	G	21	LYS
1	G	29	GLN
1	G	33	LYS
1	G	43	GLU
1	G	44	ILE
1	G	48	ASP
1	G	51	VAL
1	G	67	TYR
1	G	90	ASP
1	G	106	GLU
1	G	124	PRO
1	G	127	THR
1	G	129	ASN
1	G	138	LYS
1	G	156	GLU
1	H	1	MET
1	H	29	GLN
1	H	51	VAL
1	H	56	LYS
1	H	64	PRO
1	H	112	SER
1	H	130	GLU
1	H	144	TYR
1	I	10	GLU
1	I	43	GLU
1	I	48	ASP
1	I	64	PRO
1	I	71	LYS
1	I	83	LYS
1	I	93	ARG
1	I	113	LYS
1	I	130	GLU
1	I	132	GLU
1	I	138	LYS
1	I	144	TYR
1	J	1	MET
1	J	4	TYR
1	J	19	LEU

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Mol	Chain	Res	Type
1	J	51	VAL
1	J	67	TYR
1	J	71	LYS
1	J	90	ASP
1	J	93	ARG
1	J	95	ASN
1	J	117	THR
1	J	131	GLU
1	J	144	TYR
1	K	6	ILE
1	K	17	HIS
1	K	26	GLU
1	K	67	TYR
1	K	74	GLU
1	K	90	ASP
1	K	93	ARG
1	K	105	LEU
1	K	124	PRO
1	K	129	ASN
1	K	139	LYS
1	L	4	TYR
1	L	8	LYS
1	L	19	LEU
1	L	29	GLN
1	L	40	LYS
1	L	48	ASP
1	L	61	ASP
1	L	64	PRO
1	L	94	ASP
1	L	126	CYS
1	L	130	GLU
1	L	139	LYS
1	L	144	TYR
1	M	1	MET
1	M	6	ILE
1	M	8	LYS
1	M	10	GLU
1	M	43	GLU
1	M	46	GLU
1	M	90	ASP
1	M	95	ASN
1	M	112	SER

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Mol	Chain	Res	Type
1	M	117	THR
1	M	127	THR
1	M	135	ILE
1	M	144	TYR
1	N	1	MET
1	N	6	ILE
1	N	8	LYS
1	N	40	LYS
1	N	48	ASP
1	N	51	VAL
1	N	72	PHE
1	N	73	ASP
1	N	112	SER
1	N	129	ASN
1	N	138	LYS
1	N	144	TYR
1	N	146	GLN
1	O	48	ASP
1	O	51	VAL
1	O	90	ASP
1	O	93	ARG
1	O	112	SER
1	O	117	THR
1	O	127	THR
1	O	130	GLU
1	O	132	GLU
1	O	137	GLU
1	O	138	LYS
1	O	144	TYR
1	P	29	GLN
1	P	40	LYS
1	P	46	GLU
1	P	48	ASP
1	P	51	VAL
1	P	73	ASP
1	P	93	ARG
1	P	117	THR
1	P	127	THR
1	P	137	GLU
1	P	144	TYR
1	Q	4	TYR
1	Q	6	ILE

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Mol	Chain	Res	Type
1	Q	21	LYS
1	Q	68	MET
1	Q	83	LYS
1	Q	126	CYS
1	Q	129	ASN
1	Q	131	GLU
1	Q	142	GLU
1	R	6	ILE
1	R	9	GLU
1	R	21	LYS
1	R	60	VAL
1	R	106	GLU
1	R	113	LYS
1	R	115	LYS
1	R	129	ASN
1	R	130	GLU
1	R	137	GLU
1	R	138	LYS
1	R	144	TYR
1	S	1	MET
1	S	10	GLU
1	S	53	THR
1	S	87	PHE
1	S	98	LYS
1	S	115	LYS
1	S	126	CYS
1	S	127	THR
1	S	129	ASN
1	S	131	GLU
1	T	1	MET
1	T	21	LYS
1	T	28	HIS
1	T	48	ASP
1	T	51	VAL
1	T	56	LYS
1	T	71	LYS
1	T	73	ASP
1	T	90	ASP
1	T	93	ARG
1	T	95	ASN
1	T	96	ILE
1	T	112[A]	SER

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Mol	Chain	Res	Type
1	T	112[B]	SER
1	T	126	CYS
1	T	127	THR
1	T	142	GLU
1	T	144	TYR
1	U	4	TYR
1	U	8	LYS
1	U	21	LYS
1	U	48	ASP
1	U	68	MET
1	U	90	ASP
1	U	94	ASP
1	U	112	SER
1	U	126	CYS
1	U	127	THR
1	U	132	GLU
1	U	137	GLU
1	U	138	LYS
1	U	144	TYR
1	U	154	ASN
1	V	12	SER
1	V	25	LEU
1	V	26	GLU
1	V	55	THR
1	V	75	ILE
1	V	83	LYS
1	V	91	VAL
1	V	93	ARG
1	V	94	ASP
1	V	96	ILE
1	V	117	THR
1	V	121	HIS
1	V	123	LYS
1	V	126	CYS
1	V	144	TYR
1	W	1	MET
1	W	4	TYR
1	W	21	LYS
1	W	48	ASP
1	W	82	CYS
1	W	92	LEU
1	W	97	GLU

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Mol	Chain	Res	Type
1	W	144	TYR
1	X	8	LYS
1	X	11	GLU
1	X	21	LYS
1	X	48	ASP
1	X	51	VAL
1	X	71	LYS
1	X	73	ASP
1	X	83	LYS
1	X	129	ASN
1	X	130	GLU
1	X	131	GLU
1	X	135	ILE
1	X	144	TYR
1	Y	5	THR
1	Y	6	ILE
1	Y	21	LYS
1	Y	29	GLN
1	Y	33	LYS
1	Y	40	LYS
1	Y	48	ASP
1	Y	90	ASP
1	Y	94	ASP
1	Y	115	LYS
1	Y	127	THR
1	Y	129	ASN
1	Y	130	GLU
1	Y	131	GLU
1	Y	138	LYS
1	Y	144	TYR
1	Z	1	MET
1	Z	4	TYR
1	Z	5	THR
1	Z	6	ILE
1	Z	21	LYS
1	Z	43	GLU
1	Z	48	ASP
1	Z	51	VAL
1	Z	58	THR
1	Z	112	SER
1	Z	127	THR
1	Z	138	LYS

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Mol	Chain	Res	Type
1	Z	144	TYR
1	a	1	MET
1	a	4	TYR
1	a	6	ILE
1	a	97	GLU
1	a	123	LYS
1	a	124	PRO
1	a	129	ASN
1	a	144	TYR
1	b	29	GLN
1	b	68	MET
1	b	94	ASP
1	b	106	GLU
1	b	129	ASN
1	b	130	GLU
1	b	138	LYS
1	b	144	TYR

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (44) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	28	HIS
1	A	35	GLN
1	A	37	HIS
1	B	29	GLN
1	B	95	ASN
1	C	17	HIS
1	C	63	HIS
1	C	129	ASN
1	D	35	GLN
1	D	154	ASN
1	E	29	GLN
1	E	35	GLN
1	F	28	HIS
1	F	29	GLN
1	F	79	ASN
1	G	17	HIS
1	G	29	GLN
1	G	79	ASN
1	G	129	ASN
1	J	29	GLN
1	J	95	ASN

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Mol	Chain	Res	Type
1	J	129	ASN
1	K	79	ASN
1	K	129	ASN
1	L	35	GLN
1	L	129	ASN
1	N	129	ASN
1	N	154	ASN
1	P	28	HIS
1	R	129	ASN
1	S	28	HIS
1	S	37	HIS
1	S	129	ASN
1	S	154	ASN
1	T	29	GLN
1	T	154	ASN
1	U	154	ASN
1	V	129	ASN
1	W	121	HIS
1	X	129	ASN
1	X	154	ASN
1	Y	129	ASN
1	a	129	ASN
1	b	129	ASN

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 monosaccharides in this entry.

5.6 Ligand geometry ⓘ

94 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	2AN	D	201	-	22,23,23	0.67	0	29,33,33	0.74	0
2	2AN	J	201	-	22,23,23	0.84	1 (4%)	29,33,33	0.78	2 (6%)
2	2AN	Z	202	-	22,23,23	0.82	0	29,33,33	1.04	3 (10%)
4	SO4	V	203	-	4,4,4	0.46	0	6,6,6	1.23	0
2	2AN	U	204	-	22,23,23	0.70	0	29,33,33	0.81	1 (3%)
2	2AN	C	204	-	22,23,23	0.83	1 (4%)	29,33,33	0.91	3 (10%)
2	2AN	K	201	-	22,23,23	0.82	0	29,33,33	0.94	1 (3%)
2	2AN	K	203	-	22,23,23	0.47	0	29,33,33	0.90	2 (6%)
2	2AN	N	202	-	22,23,23	0.76	0	29,33,33	0.86	0
2	2AN	L	203	-	22,23,23	0.81	0	29,33,33	1.09	2 (6%)
2	2AN	C	202	-	22,23,23	0.71	0	29,33,33	0.93	3 (10%)
2	2AN	Y	204	-	22,23,23	0.56	0	29,33,33	0.84	1 (3%)
2	2AN	I	202	-	22,23,23	0.90	0	29,33,33	0.85	1 (3%)
2	2AN	Q	203	-	22,23,23	0.62	0	29,33,33	0.82	1 (3%)
2	2AN	N	201	-	22,23,23	0.73	0	29,33,33	0.96	2 (6%)
2	2AN	L	202	-	22,23,23	0.81	0	29,33,33	0.85	1 (3%)
2	2AN	Y	202	-	22,23,23	0.71	0	29,33,33	0.84	1 (3%)
2	2AN	B	204	-	22,23,23	0.78	0	29,33,33	0.91	1 (3%)
2	2AN	N	203	-	22,23,23	0.80	0	29,33,33	1.03	2 (6%)
2	2AN	Z	201	-	22,23,23	0.75	0	29,33,33	0.92	2 (6%)
2	2AN	I	203	-	22,23,23	0.57	0	29,33,33	0.96	2 (6%)
2	2AN	G	203	-	22,23,23	0.69	0	29,33,33	0.79	0
2	2AN	b	202	-	22,23,23	0.87	0	29,33,33	0.96	1 (3%)
2	2AN	B	201	-	22,23,23	0.58	0	29,33,33	0.82	1 (3%)
2	2AN	E	203	-	22,23,23	0.74	1 (4%)	29,33,33	1.08	2 (6%)
2	2AN	S	201	-	22,23,23	0.81	1 (4%)	29,33,33	0.82	1 (3%)
2	2AN	L	204	-	22,23,23	0.58	0	29,33,33	1.02	2 (6%)
2	2AN	B	202	-	22,23,23	0.57	0	29,33,33	0.97	3 (10%)
2	2AN	O	202	-	22,23,23	0.83	1 (4%)	29,33,33	0.89	1 (3%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	2AN	A	204	-	22,23,23	0.89	0	29,33,33	1.03	2 (6%)
2	2AN	M	201	-	22,23,23	0.82	1 (4%)	29,33,33	0.83	1 (3%)
3	EPE	Z	204	-	15,15,15	2.20	1 (6%)	18,20,20	4.18	11 (61%)
2	2AN	V	202	-	22,23,23	0.65	0	29,33,33	1.09	2 (6%)
2	2AN	A	202	-	22,23,23	0.82	0	29,33,33	0.87	1 (3%)
2	2AN	C	201	-	22,23,23	0.92	1 (4%)	29,33,33	0.88	1 (3%)
2	2AN	I	205	-	22,23,23	0.56	0	29,33,33	0.92	2 (6%)
2	2AN	a	201	-	22,23,23	0.52	0	29,33,33	0.73	1 (3%)
2	2AN	H	203	-	22,23,23	0.83	1 (4%)	29,33,33	1.01	2 (6%)
2	2AN	N	204	-	22,23,23	1.10	2 (9%)	29,33,33	1.03	3 (10%)
2	2AN	K	202	-	22,23,23	0.49	0	29,33,33	0.89	1 (3%)
2	2AN	R	202	-	22,23,23	0.71	0	29,33,33	0.97	1 (3%)
2	2AN	W	201	-	22,23,23	0.88	1 (4%)	29,33,33	1.11	4 (13%)
2	2AN	A	201	-	22,23,23	0.77	0	29,33,33	1.08	2 (6%)
2	2AN	M	203	-	22,23,23	0.51	0	29,33,33	0.91	2 (6%)
2	2AN	W	203	-	22,23,23	0.93	1 (4%)	29,33,33	0.92	2 (6%)
2	2AN	X	202	-	22,23,23	0.54	0	29,33,33	0.98	2 (6%)
2	2AN	U	202	-	22,23,23	0.84	0	29,33,33	0.94	2 (6%)
2	2AN	Z	203	-	22,23,23	0.47	0	29,33,33	0.94	2 (6%)
2	2AN	P	201	-	22,23,23	0.72	0	29,33,33	0.87	2 (6%)
2	2AN	P	202	-	22,23,23	0.64	0	29,33,33	1.07	3 (10%)
2	2AN	M	202	-	22,23,23	0.80	1 (4%)	29,33,33	0.85	1 (3%)
2	2AN	G	205	-	22,23,23	0.52	0	29,33,33	0.92	2 (6%)
2	2AN	U	205	-	22,23,23	0.53	0	29,33,33	0.75	0
2	2AN	G	204	-	22,23,23	1.02	1 (4%)	29,33,33	1.09	2 (6%)
4	SO4	X	204	-	4,4,4	0.51	0	6,6,6	0.66	0
2	2AN	I	204	-	22,23,23	0.71	0	29,33,33	1.32	4 (13%)
2	2AN	Q	201	-	22,23,23	0.62	0	29,33,33	0.91	1 (3%)
4	SO4	b	204	-	4,4,4	0.34	0	6,6,6	1.32	0
2	2AN	I	201	-	22,23,23	0.71	0	29,33,33	0.91	2 (6%)
2	2AN	F	201	-	22,23,23	0.69	0	29,33,33	0.90	1 (3%)
2	2AN	U	203	-	22,23,23	0.74	0	29,33,33	0.97	2 (6%)
2	2AN	b	201	-	22,23,23	0.58	0	29,33,33	1.05	1 (3%)
2	2AN	R	204	-	22,23,23	0.73	0	29,33,33	0.85	0
2	2AN	W	202	-	22,23,23	0.70	1 (4%)	29,33,33	0.86	1 (3%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	2AN	H	202	-	22,23,23	0.67	0	29,33,33	0.79	1 (3%)
2	2AN	b	203	-	22,23,23	0.67	0	29,33,33	0.90	2 (6%)
2	2AN	E	202	-	22,23,23	0.62	0	29,33,33	1.04	2 (6%)
2	2AN	W	204	-	22,23,23	0.81	0	29,33,33	1.06	3 (10%)
2	2AN	X	201	-	22,23,23	0.65	0	29,33,33	0.80	2 (6%)
2	2AN	B	205	-	22,23,23	0.54	0	29,33,33	0.91	2 (6%)
2	2AN	J	202	-	22,23,23	0.75	0	29,33,33	0.96	2 (6%)
2	2AN	O	201	-	22,23,23	0.84	1 (4%)	29,33,33	0.89	1 (3%)
2	2AN	X	203	-	22,23,23	0.58	0	29,33,33	0.93	2 (6%)
2	2AN	L	205	-	22,23,23	0.63	0	29,33,33	0.84	1 (3%)
2	2AN	R	201	-	22,23,23	0.66	0	29,33,33	1.06	3 (10%)
2	2AN	B	203	-	22,23,23	0.58	0	29,33,33	0.84	1 (3%)
2	2AN	G	202	-	22,23,23	0.80	0	29,33,33	0.96	2 (6%)
2	2AN	E	201	-	22,23,23	1.17	2 (9%)	29,33,33	1.24	3 (10%)
2	2AN	R	203	-	22,23,23	0.59	0	29,33,33	0.98	2 (6%)
2	2AN	Y	203	-	22,23,23	0.54	0	29,33,33	0.86	0
2	2AN	H	201	-	22,23,23	0.82	0	29,33,33	1.04	3 (10%)
2	2AN	Y	201	-	22,23,23	0.87	2 (9%)	29,33,33	0.88	1 (3%)
2	2AN	V	201	-	22,23,23	0.67	0	29,33,33	0.89	0
2	2AN	A	203	-	22,23,23	0.72	0	29,33,33	0.85	1 (3%)
2	2AN	C	203	-	22,23,23	0.64	0	29,33,33	0.99	1 (3%)
3	EPE	C	205	-	15,15,15	1.85	2 (13%)	18,20,20	3.65	13 (72%)
2	2AN	L	201	-	22,23,23	0.60	0	29,33,33	0.90	1 (3%)
2	2AN	Q	202	-	22,23,23	0.60	0	29,33,33	0.96	1 (3%)
2	2AN	E	204	-	22,23,23	0.83	1 (4%)	29,33,33	0.97	1 (3%)
2	2AN	D	203	-	22,23,23	0.64	0	29,33,33	0.85	1 (3%)
2	2AN	E	205	-	22,23,23	0.77	0	29,33,33	0.99	3 (10%)
2	2AN	G	201	-	22,23,23	1.34	2 (9%)	29,33,33	1.08	2 (6%)
2	2AN	D	202	-	22,23,23	0.59	0	29,33,33	0.89	2 (6%)
2	2AN	U	201	-	22,23,23	0.72	1 (4%)	29,33,33	0.84	1 (3%)

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	2AN	D	201	-	-	0/10/10/10	0/3/3/3
2	2AN	J	201	-	-	0/10/10/10	0/3/3/3
2	2AN	Z	202	-	-	0/10/10/10	0/3/3/3
2	2AN	U	204	-	-	0/10/10/10	0/3/3/3
2	2AN	C	204	-	-	0/10/10/10	0/3/3/3
2	2AN	K	201	-	-	0/10/10/10	0/3/3/3
2	2AN	K	203	-	-	0/10/10/10	0/3/3/3
2	2AN	N	202	-	-	0/10/10/10	0/3/3/3
2	2AN	L	203	-	-	0/10/10/10	0/3/3/3
2	2AN	C	202	-	-	0/10/10/10	0/3/3/3
2	2AN	Y	204	-	-	0/10/10/10	0/3/3/3
2	2AN	I	202	-	-	2/10/10/10	0/3/3/3
2	2AN	Q	203	-	-	0/10/10/10	0/3/3/3
2	2AN	N	201	-	-	0/10/10/10	0/3/3/3
2	2AN	L	202	-	-	0/10/10/10	0/3/3/3
2	2AN	Y	202	-	-	0/10/10/10	0/3/3/3
2	2AN	B	204	-	-	0/10/10/10	0/3/3/3
2	2AN	N	203	-	-	0/10/10/10	0/3/3/3
2	2AN	Z	201	-	-	0/10/10/10	0/3/3/3
2	2AN	I	203	-	-	0/10/10/10	0/3/3/3
2	2AN	G	203	-	-	0/10/10/10	0/3/3/3
2	2AN	b	202	-	-	0/10/10/10	0/3/3/3
2	2AN	B	201	-	-	0/10/10/10	0/3/3/3
2	2AN	E	203	-	-	0/10/10/10	0/3/3/3
2	2AN	S	201	-	-	0/10/10/10	0/3/3/3
2	2AN	L	204	-	-	0/10/10/10	0/3/3/3
2	2AN	B	202	-	-	0/10/10/10	0/3/3/3
2	2AN	O	202	-	-	0/10/10/10	0/3/3/3
2	2AN	A	204	-	-	0/10/10/10	0/3/3/3
2	2AN	M	201	-	-	0/10/10/10	0/3/3/3
3	EPE	Z	204	-	-	6/9/19/19	0/1/1/1
2	2AN	V	202	-	-	2/10/10/10	0/3/3/3
2	2AN	A	202	-	-	0/10/10/10	0/3/3/3
2	2AN	C	201	-	-	0/10/10/10	0/3/3/3
2	2AN	I	205	-	-	0/10/10/10	0/3/3/3
2	2AN	a	201	-	-	0/10/10/10	0/3/3/3
2	2AN	H	203	-	-	0/10/10/10	0/3/3/3
2	2AN	N	204	-	-	0/10/10/10	0/3/3/3
2	2AN	K	202	-	-	0/10/10/10	0/3/3/3
2	2AN	R	202	-	-	0/10/10/10	0/3/3/3
2	2AN	W	201	-	-	1/10/10/10	0/3/3/3
2	2AN	A	201	-	-	0/10/10/10	0/3/3/3
2	2AN	M	203	-	-	0/10/10/10	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	2AN	W	203	-	-	2/10/10/10	0/3/3/3
2	2AN	X	202	-	-	1/10/10/10	0/3/3/3
2	2AN	U	202	-	-	0/10/10/10	0/3/3/3
2	2AN	Z	203	-	-	0/10/10/10	0/3/3/3
2	2AN	P	201	-	-	0/10/10/10	0/3/3/3
2	2AN	P	202	-	-	1/10/10/10	0/3/3/3
2	2AN	M	202	-	-	1/10/10/10	0/3/3/3
2	2AN	G	205	-	-	0/10/10/10	0/3/3/3
2	2AN	U	205	-	-	2/10/10/10	0/3/3/3
2	2AN	G	204	-	-	0/10/10/10	0/3/3/3
2	2AN	I	204	-	-	0/10/10/10	0/3/3/3
2	2AN	Q	201	-	-	0/10/10/10	0/3/3/3
2	2AN	I	201	-	-	1/10/10/10	0/3/3/3
2	2AN	F	201	-	-	0/10/10/10	0/3/3/3
2	2AN	U	203	-	-	0/10/10/10	0/3/3/3
2	2AN	b	201	-	-	0/10/10/10	0/3/3/3
2	2AN	R	204	-	-	2/10/10/10	0/3/3/3
2	2AN	W	202	-	-	0/10/10/10	0/3/3/3
2	2AN	H	202	-	-	0/10/10/10	0/3/3/3
2	2AN	b	203	-	-	0/10/10/10	0/3/3/3
2	2AN	E	202	-	-	0/10/10/10	0/3/3/3
2	2AN	W	204	-	-	1/10/10/10	0/3/3/3
2	2AN	X	201	-	-	0/10/10/10	0/3/3/3
2	2AN	B	205	-	-	0/10/10/10	0/3/3/3
2	2AN	J	202	-	-	0/10/10/10	0/3/3/3
2	2AN	O	201	-	-	0/10/10/10	0/3/3/3
2	2AN	X	203	-	-	0/10/10/10	0/3/3/3
2	2AN	L	205	-	-	0/10/10/10	0/3/3/3
2	2AN	R	201	-	-	1/10/10/10	0/3/3/3
2	2AN	B	203	-	-	0/10/10/10	0/3/3/3
2	2AN	G	202	-	-	0/10/10/10	0/3/3/3
2	2AN	E	201	-	-	0/10/10/10	0/3/3/3
2	2AN	R	203	-	-	0/10/10/10	0/3/3/3
2	2AN	Y	203	-	-	0/10/10/10	0/3/3/3
2	2AN	H	201	-	-	0/10/10/10	0/3/3/3
2	2AN	Y	201	-	-	0/10/10/10	0/3/3/3
2	2AN	V	201	-	-	2/10/10/10	0/3/3/3
2	2AN	A	203	-	-	0/10/10/10	0/3/3/3
2	2AN	C	203	-	-	2/10/10/10	0/3/3/3
3	EPE	C	205	-	-	3/9/19/19	0/1/1/1
2	2AN	L	201	-	-	0/10/10/10	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	2AN	Q	202	-	-	1/10/10/10	0/3/3/3
2	2AN	E	204	-	-	0/10/10/10	0/3/3/3
2	2AN	D	203	-	-	0/10/10/10	0/3/3/3
2	2AN	E	205	-	-	0/10/10/10	0/3/3/3
2	2AN	G	201	-	-	0/10/10/10	0/3/3/3
2	2AN	D	202	-	-	0/10/10/10	0/3/3/3
2	2AN	U	201	-	-	0/10/10/10	0/3/3/3

All (27) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Z	204	EPE	C10-S	-7.89	1.66	1.77
3	C	205	EPE	C10-S	-5.95	1.69	1.77
2	G	201	2AN	C9-C10	3.60	1.48	1.43
2	N	204	2AN	C16-C11	-3.22	1.33	1.39
2	G	204	2AN	C13-C12	-3.17	1.32	1.38
2	O	201	2AN	C16-C11	-2.70	1.34	1.39
2	E	201	2AN	C16-C11	-2.56	1.34	1.39
2	M	201	2AN	C16-C11	-2.55	1.34	1.39
2	E	201	2AN	C8-C9	-2.40	1.34	1.37
2	G	201	2AN	C3-C4	-2.35	1.31	1.36
2	U	201	2AN	C16-C11	-2.34	1.35	1.39
2	H	203	2AN	C12-C11	-2.33	1.35	1.39
2	W	203	2AN	C9-C10	2.31	1.47	1.43
2	W	201	2AN	C7-C8	2.27	1.43	1.38
2	O	202	2AN	C1-C10	2.27	1.46	1.42
2	E	203	2AN	C3-C4	-2.24	1.31	1.36
2	M	202	2AN	C1-C10	2.22	1.46	1.42
2	C	201	2AN	C9-C10	2.19	1.46	1.43
2	S	201	2AN	C12-C11	-2.19	1.35	1.39
2	Y	201	2AN	C16-C11	-2.19	1.35	1.39
2	Y	201	2AN	C7-C6	-2.18	1.31	1.36
2	E	204	2AN	C12-C11	-2.12	1.35	1.39
2	J	201	2AN	C9-C10	2.05	1.46	1.43
2	W	202	2AN	C16-C11	-2.04	1.35	1.39
3	C	205	EPE	C3-N4	-2.03	1.41	1.46
2	N	204	2AN	C12-C11	-2.02	1.35	1.39
2	C	204	2AN	C12-C11	2.01	1.42	1.39

All (168) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Z	204	EPE	O3S-S-C10	9.81	121.63	105.77
3	Z	204	EPE	O2S-S-C10	-7.63	97.72	106.92
3	C	205	EPE	C7-N4-C3	7.41	130.19	111.23
3	Z	204	EPE	C6-N1-C2	6.78	124.09	108.83
3	C	205	EPE	O1S-S-C10	5.64	113.71	106.92
3	C	205	EPE	C2-C3-N4	-4.59	101.22	110.64
3	C	205	EPE	C9-N1-C6	4.57	122.92	111.23
3	Z	204	EPE	C7-N4-C5	4.30	122.24	111.23
3	C	205	EPE	O3S-S-O2S	4.28	121.73	111.27
3	Z	204	EPE	C9-N1-C6	4.15	121.84	111.23
3	C	205	EPE	C5-C6-N1	4.07	119.00	110.64
3	Z	204	EPE	C7-N4-C3	3.96	121.36	111.23
3	Z	204	EPE	O3S-S-O2S	-3.80	101.99	111.27
3	C	205	EPE	C9-N1-C2	3.72	120.75	111.23
2	I	204	2AN	C2-C1-C10	-3.71	116.37	120.27
3	C	205	EPE	O2S-S-O1S	-3.66	101.28	113.95
2	E	203	2AN	C9-C10-C5	3.64	119.96	116.29
3	C	205	EPE	O3S-S-O1S	-3.50	102.71	111.27
3	Z	204	EPE	C5-N4-C3	3.30	116.26	108.83
3	C	205	EPE	C6-N1-C2	3.28	116.21	108.83
2	E	201	2AN	C9-C10-C5	3.23	119.54	116.29
2	L	203	2AN	C9-C10-C5	3.23	119.54	116.29
3	C	205	EPE	C7-N4-C5	3.22	119.47	111.23
3	Z	204	EPE	O2S-S-O1S	3.22	125.09	113.95
2	E	201	2AN	C7-C8-C9	3.16	123.63	120.37
2	C	203	2AN	C10-C1-N	-3.11	116.06	120.71
2	L	201	2AN	C9-C10-C5	3.07	119.38	116.29
2	G	201	2AN	C9-C10-C5	3.02	119.33	116.29
3	Z	204	EPE	C2-C3-N4	3.02	116.84	110.64
2	L	204	2AN	C9-C10-C5	2.95	119.26	116.29
2	b	202	2AN	C9-C10-C5	2.94	119.25	116.29
2	H	203	2AN	C11-N-C1	-2.92	119.45	126.71
2	F	201	2AN	C11-N-C1	-2.92	119.47	126.71
2	G	202	2AN	C11-N-C1	-2.90	119.51	126.71
2	Q	202	2AN	C9-C10-C5	2.88	119.19	116.29
2	L	203	2AN	C11-N-C1	-2.84	119.66	126.71
2	K	201	2AN	C9-C10-C5	2.84	119.14	116.29
2	P	201	2AN	C9-C10-C5	2.79	119.10	116.29
2	O	202	2AN	C9-C10-C5	2.78	119.08	116.29
2	Z	202	2AN	C11-N-C1	-2.77	119.83	126.71
2	N	201	2AN	C9-C10-C5	2.76	119.07	116.29
2	Z	201	2AN	C9-C10-C5	2.76	119.07	116.29
2	A	201	2AN	C11-N-C1	-2.76	119.86	126.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	R	201	2AN	C9-C10-C5	2.74	119.05	116.29
2	W	201	2AN	C9-C10-C5	2.73	119.04	116.29
2	U	203	2AN	C9-C10-C5	2.70	119.01	116.29
2	G	204	2AN	C11-N-C1	-2.69	120.03	126.71
2	I	203	2AN	C11-N-C1	-2.68	120.05	126.71
2	D	202	2AN	C11-N-C1	-2.68	120.07	126.71
3	Z	204	EPE	C6-C5-N4	-2.65	105.21	110.64
2	Y	201	2AN	C9-C10-C5	2.64	118.95	116.29
2	I	201	2AN	C11-N-C1	-2.62	120.20	126.71
2	D	203	2AN	C11-N-C1	-2.62	120.20	126.71
2	A	201	2AN	C9-C10-C5	2.61	118.92	116.29
2	W	203	2AN	C9-C10-C5	2.60	118.91	116.29
2	E	202	2AN	C15-C16-C11	2.58	122.81	119.72
2	H	201	2AN	C11-N-C1	-2.58	120.31	126.71
2	L	205	2AN	C9-C10-C5	2.56	118.87	116.29
2	I	203	2AN	C9-C10-C5	2.56	118.87	116.29
2	b	201	2AN	C11-N-C1	-2.56	120.36	126.71
2	C	201	2AN	C9-C10-C5	2.55	118.86	116.29
2	R	203	2AN	C16-C11-C12	2.54	122.51	119.03
2	N	204	2AN	C11-N-C1	-2.54	120.40	126.71
2	R	203	2AN	C11-N-C1	-2.54	120.41	126.71
2	M	203	2AN	C9-C10-C5	2.54	118.84	116.29
2	Z	203	2AN	C2-C1-C10	-2.53	117.61	120.27
2	Z	203	2AN	C11-N-C1	-2.53	120.44	126.71
2	J	202	2AN	C11-N-C1	-2.51	120.47	126.71
2	E	205	2AN	C11-N-C1	-2.48	120.55	126.71
2	G	205	2AN	C9-C10-C5	2.48	118.79	116.29
2	A	204	2AN	C9-C10-C5	2.48	118.79	116.29
2	G	205	2AN	C11-N-C1	-2.47	120.57	126.71
2	R	202	2AN	C9-C10-C5	2.47	118.77	116.29
2	N	204	2AN	C9-C10-C5	2.44	118.75	116.29
2	H	202	2AN	C9-C10-C5	2.43	118.73	116.29
2	B	204	2AN	C9-C10-C5	2.42	118.73	116.29
2	M	201	2AN	C9-C10-C5	2.41	118.72	116.29
2	H	201	2AN	C9-C10-C5	2.41	118.72	116.29
2	H	201	2AN	C2-C1-C10	-2.40	117.74	120.27
2	E	204	2AN	C9-C10-C5	2.40	118.70	116.29
2	I	204	2AN	C9-C10-C5	2.39	118.70	116.29
3	C	205	EPE	C8-C7-N4	2.39	121.99	113.40
2	U	202	2AN	C9-C10-C5	2.39	118.70	116.29
2	V	202	2AN	C10-C1-N	-2.39	117.14	120.71
2	B	203	2AN	C9-C10-C5	2.38	118.68	116.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	I	204	2AN	C11-N-C1	-2.36	120.84	126.71
2	A	202	2AN	C9-C10-C5	2.36	118.66	116.29
2	I	204	2AN	C15-C16-C11	2.36	122.54	119.72
2	Q	201	2AN	C9-C10-C5	2.35	118.66	116.29
2	B	202	2AN	C9-C10-C5	2.34	118.65	116.29
2	E	203	2AN	C11-N-C1	-2.34	120.91	126.71
2	L	202	2AN	C11-N-C1	-2.32	120.94	126.71
2	X	202	2AN	C11-N-C1	-2.31	120.97	126.71
2	G	202	2AN	C9-C10-C5	2.31	118.61	116.29
2	J	201	2AN	C9-C10-C5	2.30	118.60	116.29
2	C	202	2AN	C9-C10-C5	2.29	118.59	116.29
2	Y	202	2AN	C11-N-C1	-2.28	121.04	126.71
2	Q	203	2AN	C9-C10-C5	2.28	118.58	116.29
2	K	202	2AN	C11-N-C1	-2.28	121.06	126.71
2	W	201	2AN	C13-C12-C11	2.28	122.45	119.72
2	U	203	2AN	C11-N-C1	-2.27	121.08	126.71
2	M	203	2AN	C11-N-C1	-2.27	121.08	126.71
2	B	201	2AN	C9-C10-C5	2.27	118.57	116.29
2	A	204	2AN	C11-N-C1	-2.25	121.12	126.71
2	K	203	2AN	C11-N-C1	-2.25	121.12	126.71
3	C	205	EPE	O3S-S-C10	2.25	109.40	105.77
2	K	203	2AN	C9-C10-C5	2.24	118.55	116.29
2	R	201	2AN	C11-N-C1	-2.24	121.14	126.71
2	E	201	2AN	C8-C9-C10	-2.24	116.69	120.16
2	Z	202	2AN	C13-C12-C11	2.24	122.40	119.72
2	I	205	2AN	C9-C10-C5	2.23	118.54	116.29
2	P	202	2AN	C13-C12-C11	2.23	122.39	119.72
2	G	204	2AN	C15-C16-C11	2.23	122.39	119.72
2	V	202	2AN	C2-C1-C10	-2.23	117.93	120.27
2	N	204	2AN	C2-C1-C10	-2.22	117.94	120.27
2	N	203	2AN	C9-C10-C5	2.22	118.52	116.29
2	B	205	2AN	C9-C10-C5	2.22	118.52	116.29
2	M	202	2AN	C11-N-C1	-2.21	121.21	126.71
2	B	205	2AN	C11-N-C1	-2.19	121.26	126.71
2	C	202	2AN	C11-N-C1	-2.19	121.27	126.71
2	C	204	2AN	C9-C10-C5	2.19	118.49	116.29
2	A	203	2AN	C9-C10-C5	2.18	118.49	116.29
2	W	202	2AN	C9-C10-C5	2.18	118.48	116.29
2	Y	204	2AN	C9-C10-C5	2.17	118.48	116.29
2	Z	201	2AN	C11-N-C1	-2.17	121.32	126.71
2	X	203	2AN	C2-C1-C10	-2.17	117.99	120.27
2	C	202	2AN	C2-C1-C10	-2.16	118.00	120.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	P	202	2AN	C11-N-C1	-2.16	121.35	126.71
2	U	201	2AN	C9-C10-C5	2.15	118.46	116.29
2	C	204	2AN	C10-C1-N	-2.15	117.49	120.71
2	Z	202	2AN	C9-C10-C5	2.15	118.45	116.29
2	I	205	2AN	C2-C1-C10	-2.15	118.01	120.27
2	E	205	2AN	C9-C10-C5	2.13	118.43	116.29
2	J	202	2AN	C13-C12-C11	2.13	122.27	119.72
2	b	203	2AN	C2-C1-C10	-2.13	118.03	120.27
2	G	201	2AN	C11-N-C1	-2.12	121.45	126.71
2	L	204	2AN	C11-N-C1	-2.12	121.45	126.71
2	a	201	2AN	C11-N-C1	-2.12	121.45	126.71
2	X	202	2AN	C15-C16-C11	2.12	122.26	119.72
2	B	202	2AN	C15-C16-C11	2.11	122.25	119.72
2	I	201	2AN	C15-C16-C11	2.11	122.24	119.72
2	U	204	2AN	C9-C10-C5	2.10	118.40	116.29
2	E	205	2AN	C10-C1-N	-2.10	117.58	120.71
2	E	202	2AN	C11-N-C1	-2.09	121.51	126.71
2	I	202	2AN	C9-C10-C5	2.09	118.39	116.29
2	J	201	2AN	C11-N-C1	-2.09	121.53	126.71
2	D	202	2AN	C9-C10-C5	2.09	118.39	116.29
2	X	201	2AN	C11-N-C1	-2.08	121.55	126.71
2	C	204	2AN	C11-N-C1	-2.07	121.57	126.71
2	B	202	2AN	C11-N-C1	-2.07	121.57	126.71
2	b	203	2AN	C11-N-C1	-2.07	121.58	126.71
2	P	202	2AN	C2-C1-C10	-2.06	118.10	120.27
2	W	203	2AN	C11-N-C1	-2.06	121.59	126.71
2	N	203	2AN	C11-N-C1	-2.06	121.60	126.71
2	W	204	2AN	C11-N-C1	-2.05	121.62	126.71
2	R	201	2AN	C15-C16-C11	2.04	122.17	119.72
2	U	202	2AN	C2-C1-C10	-2.04	118.12	120.27
2	N	201	2AN	C11-N-C1	-2.03	121.66	126.71
2	W	204	2AN	C10-C1-N	-2.03	117.67	120.71
2	S	201	2AN	C9-C10-C5	2.03	118.33	116.29
2	W	201	2AN	C11-N-C1	-2.03	121.67	126.71
2	W	204	2AN	C9-C10-C5	2.02	118.33	116.29
2	X	203	2AN	C9-C10-C5	2.02	118.32	116.29
2	X	201	2AN	C9-C10-C5	2.02	118.32	116.29
2	W	201	2AN	C2-C1-C10	-2.01	118.15	120.27
2	H	203	2AN	C9-C10-C5	2.01	118.31	116.29
2	O	201	2AN	C11-N-C1	-2.01	121.72	126.71
2	P	201	2AN	C11-N-C1	-2.01	121.72	126.71

There are no chirality outliers.

All (31) torsion outliers are listed below:

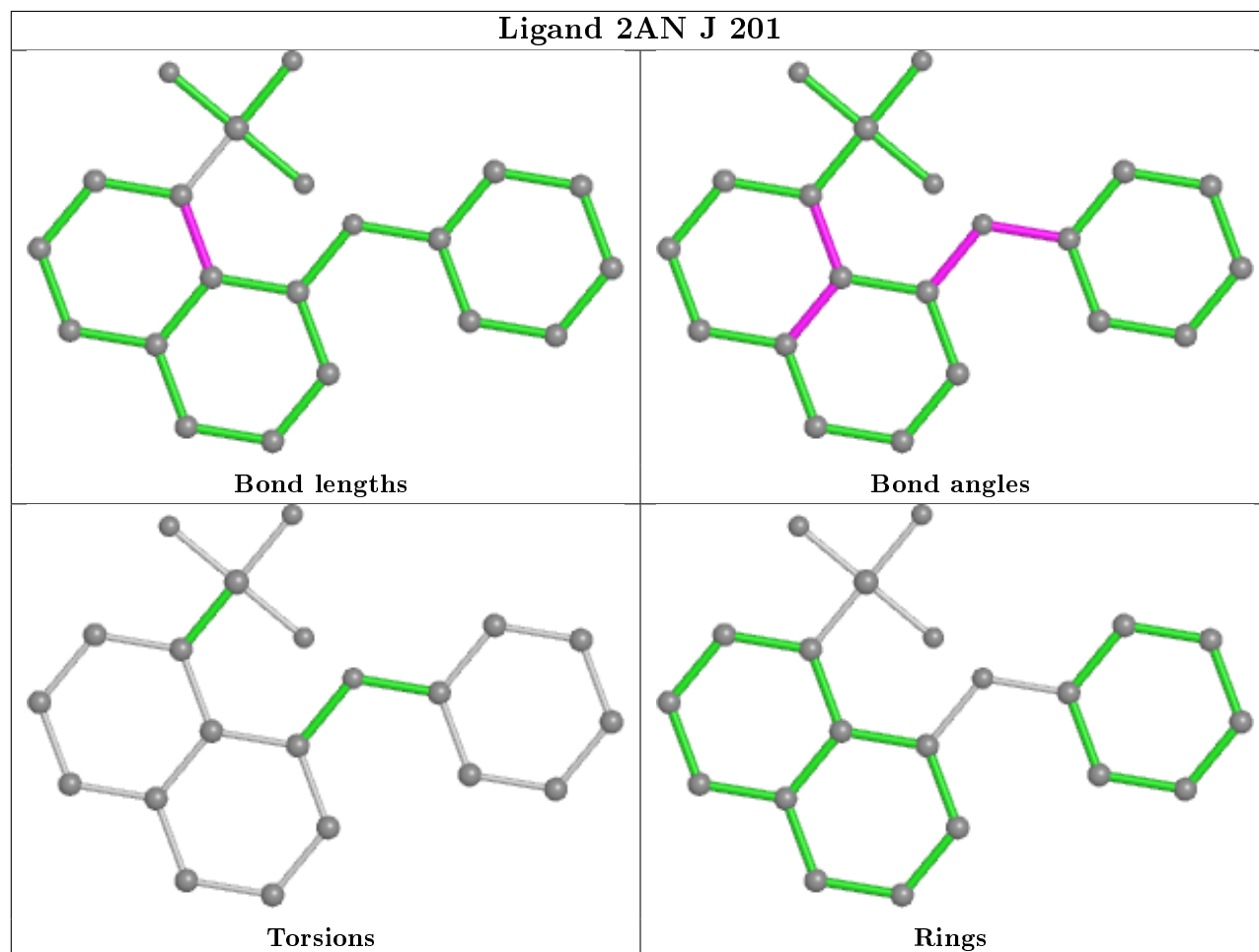
Mol	Chain	Res	Type	Atoms
3	Z	204	EPE	C10-C9-N1-C6
3	Z	204	EPE	N4-C7-C8-O8
3	Z	204	EPE	S-C10-C9-N1
3	C	205	EPE	C8-C7-N4-C3
3	C	205	EPE	S-C10-C9-N1
3	Z	204	EPE	C9-C10-S-O3S
2	R	204	2AN	C16-C11-N-C1
2	C	203	2AN	C16-C11-N-C1
2	V	202	2AN	C16-C11-N-C1
2	U	205	2AN	C12-C11-N-C1
2	V	201	2AN	C16-C11-N-C1
2	C	203	2AN	C12-C11-N-C1
2	R	204	2AN	C12-C11-N-C1
3	C	205	EPE	C10-C9-N1-C2
2	U	205	2AN	C16-C11-N-C1
2	V	202	2AN	C12-C11-N-C1
2	M	202	2AN	C12-C11-N-C1
2	V	201	2AN	C12-C11-N-C1
2	I	201	2AN	C12-C11-N-C1
2	P	202	2AN	C12-C11-N-C1
3	Z	204	EPE	C9-C10-S-O1S
3	Z	204	EPE	C9-C10-S-O2S
2	I	202	2AN	C2-C1-N-C11
2	W	201	2AN	C12-C11-N-C1
2	W	204	2AN	C16-C11-N-C1
2	R	201	2AN	C12-C11-N-C1
2	X	202	2AN	C12-C11-N-C1
2	W	203	2AN	C2-C1-N-C11
2	I	202	2AN	C10-C1-N-C11
2	W	203	2AN	C10-C1-N-C11
2	Q	202	2AN	C10-C1-N-C11

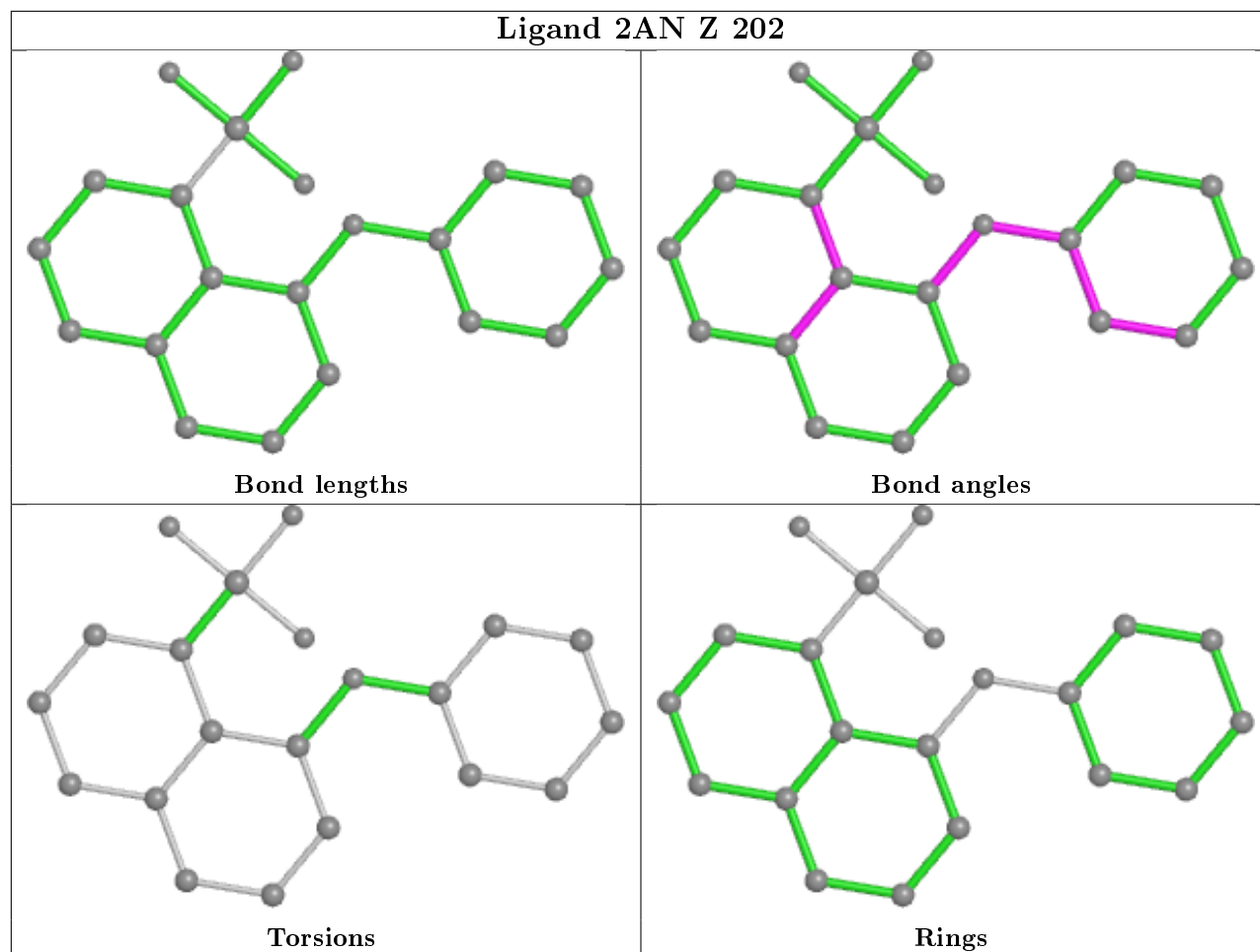
There are no ring outliers.

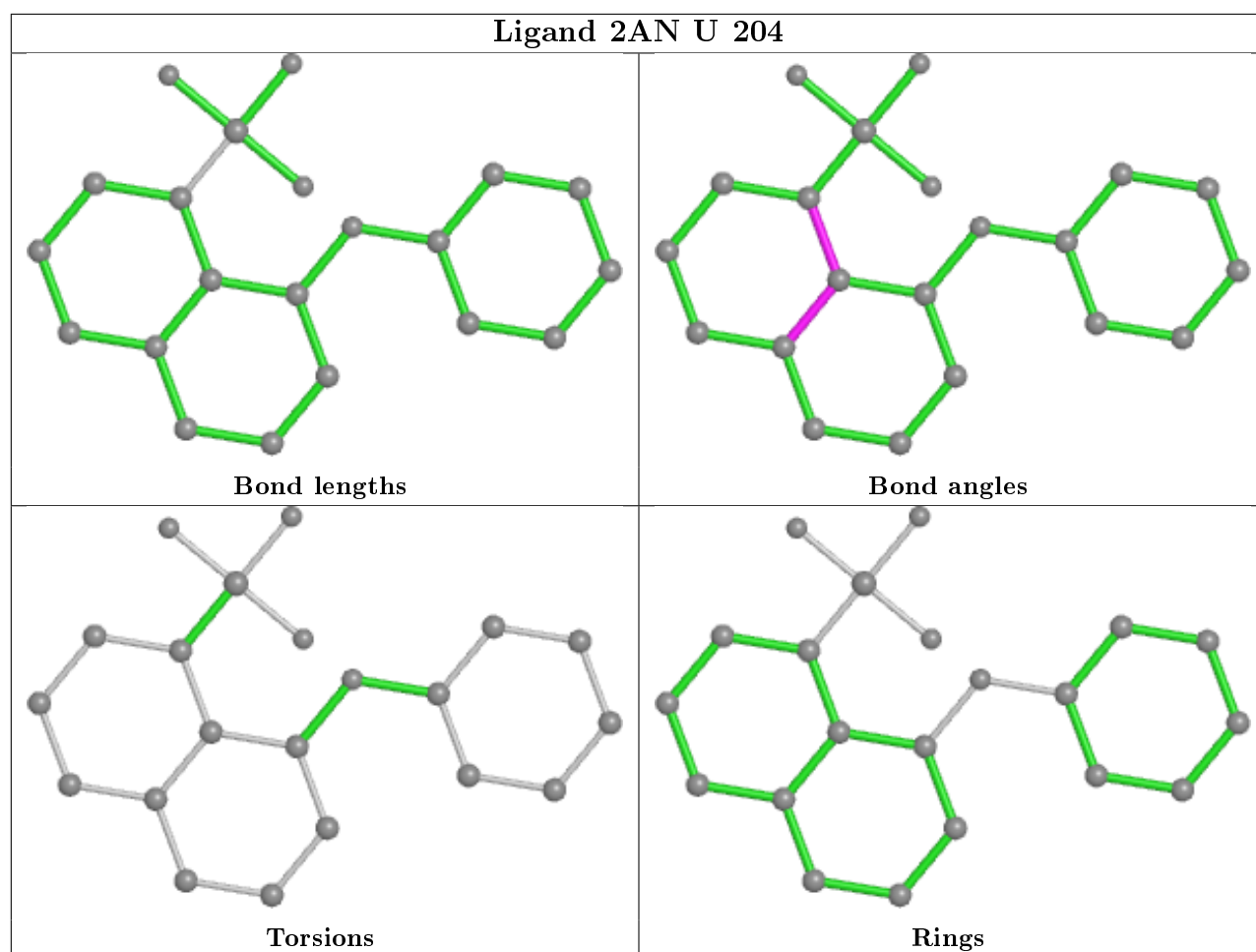
No monomer is involved in short contacts.

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring

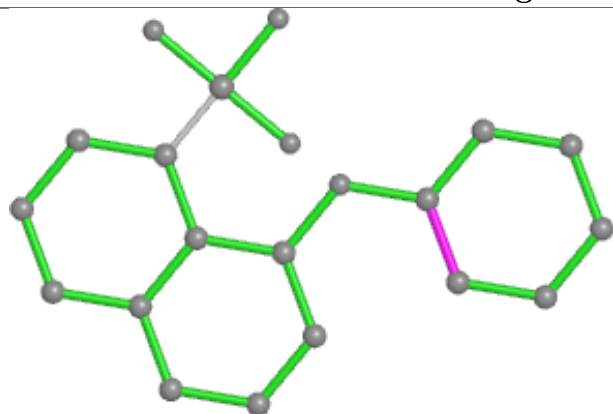
in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



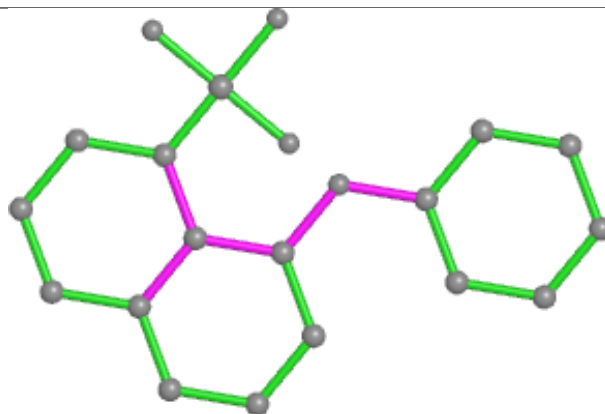




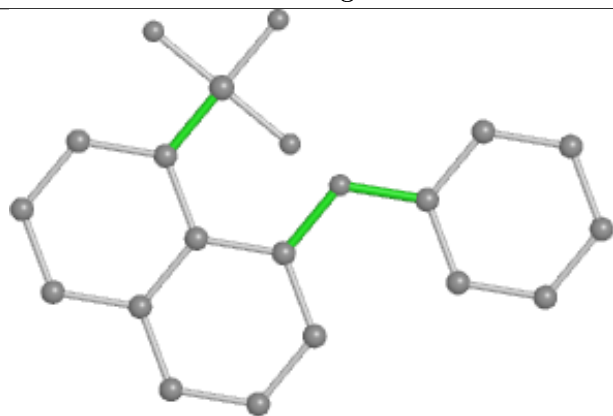
Ligand 2AN C 204



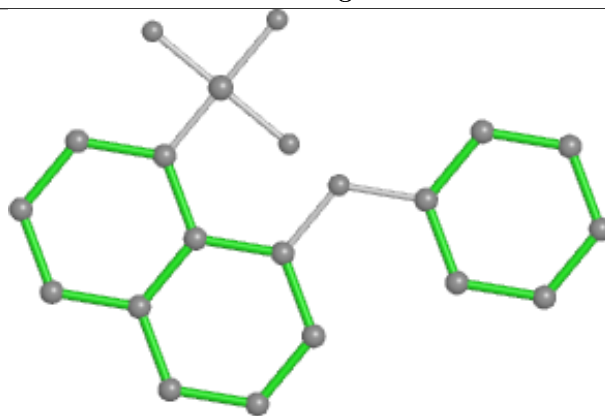
Bond lengths



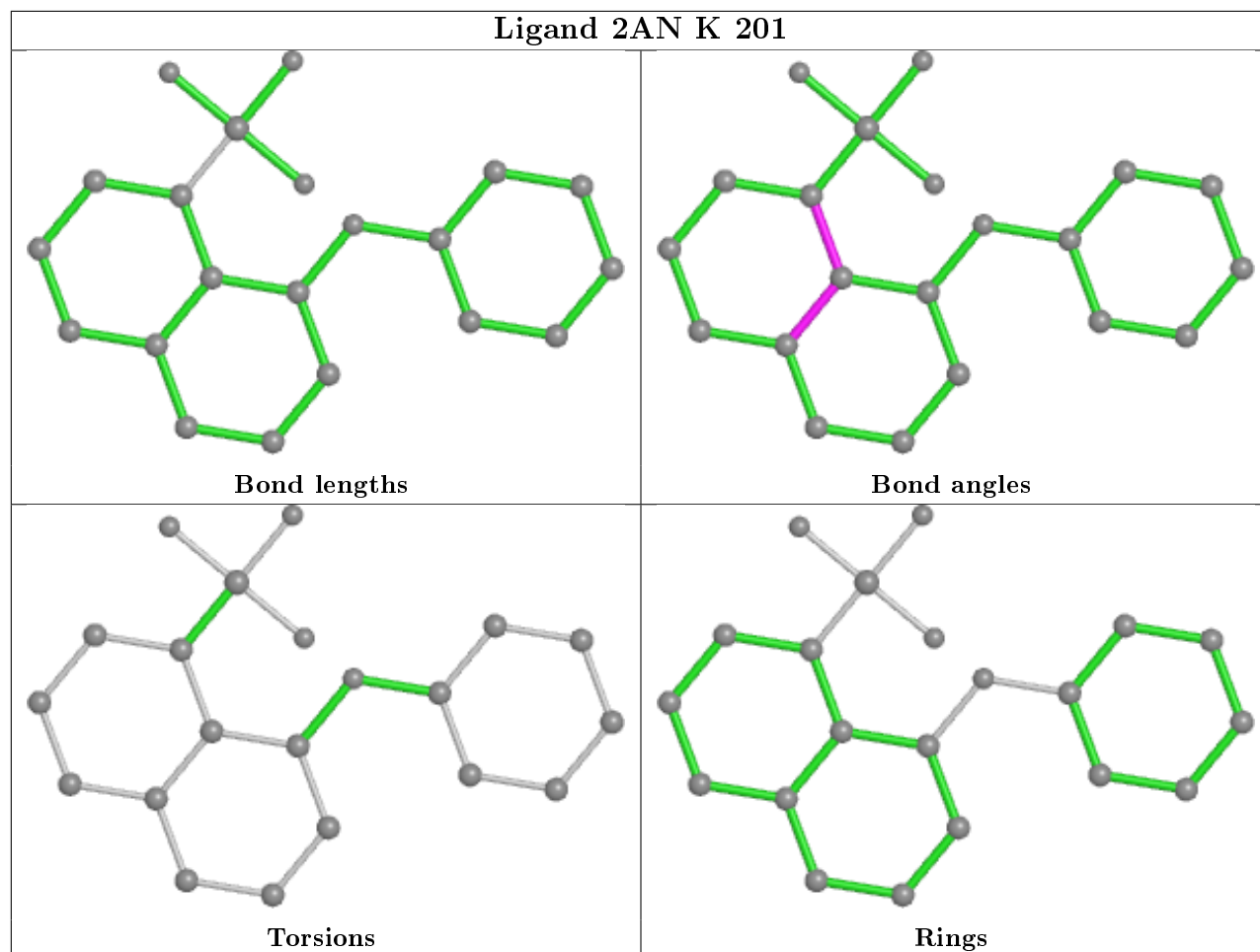
Bond angles

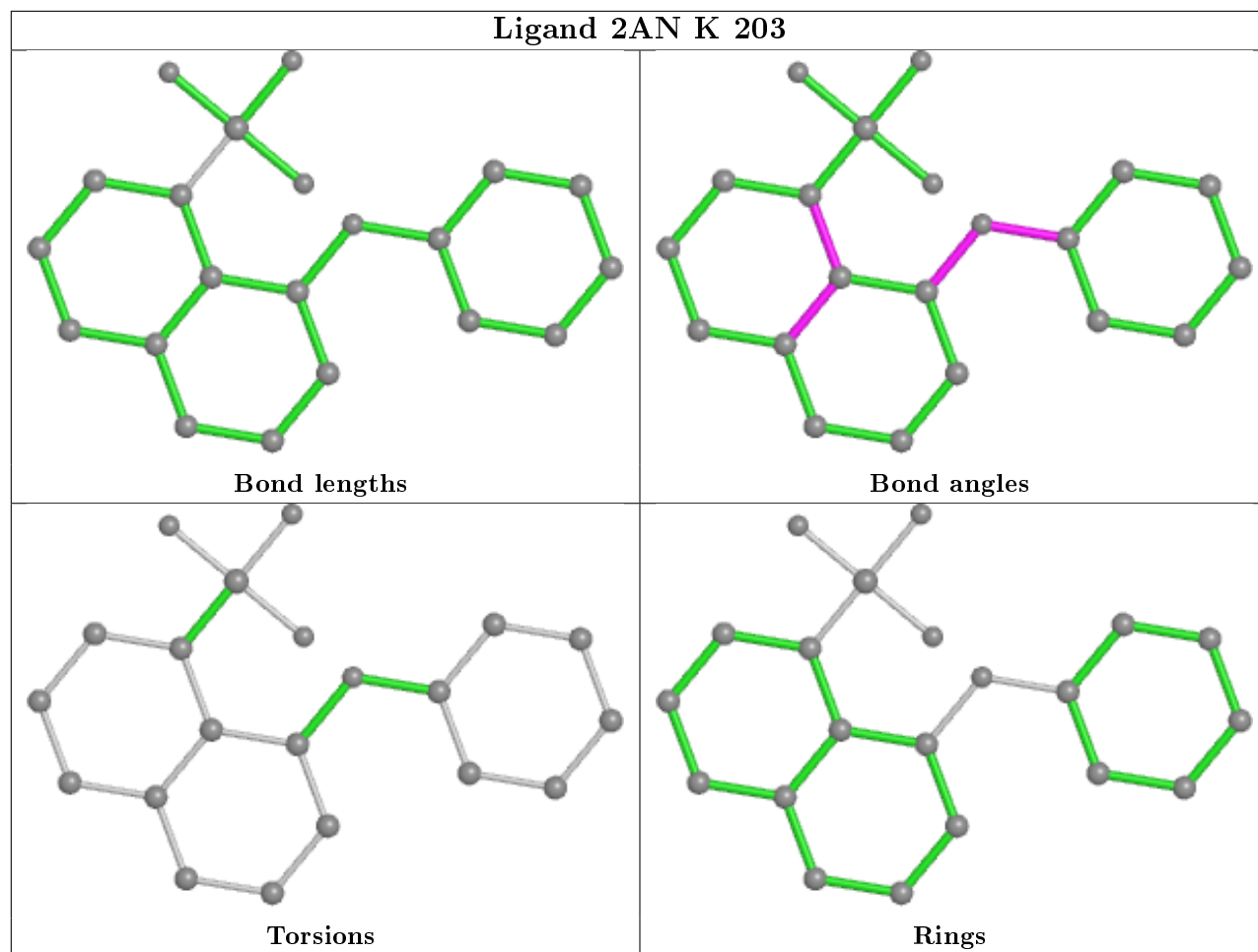


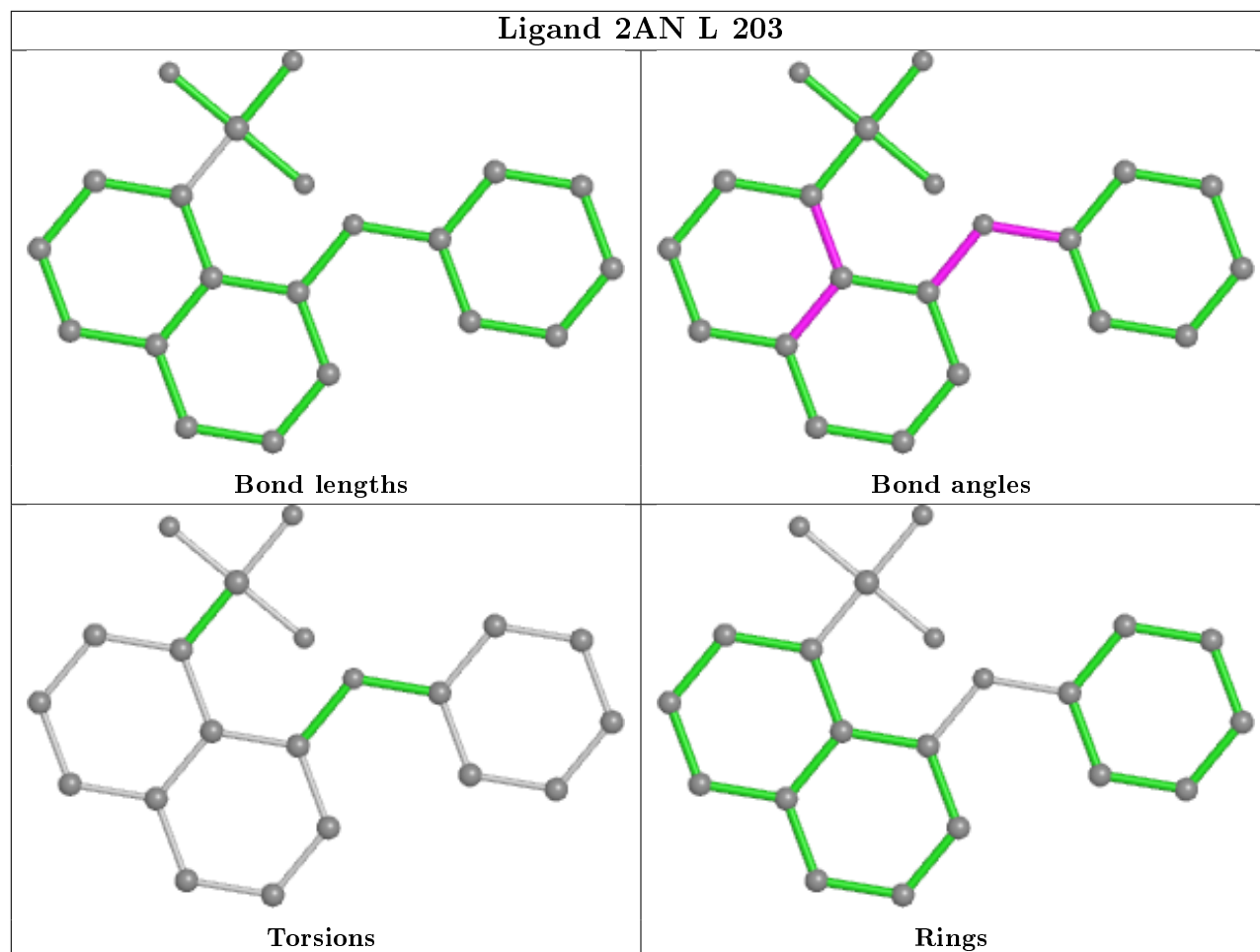
Torsions



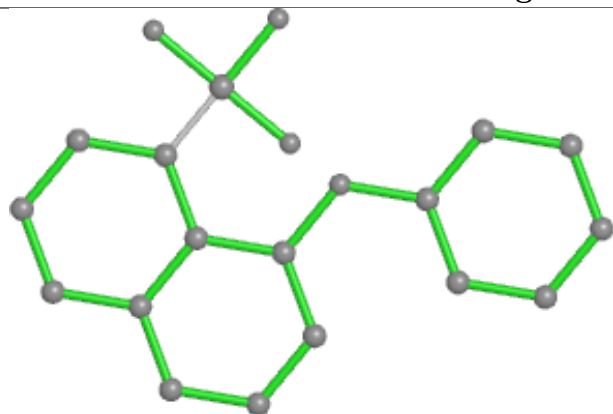
Rings



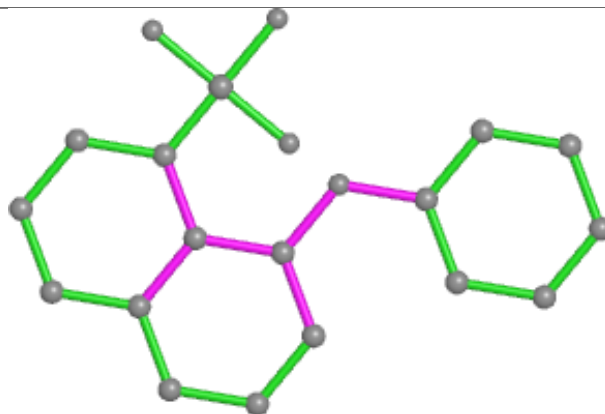




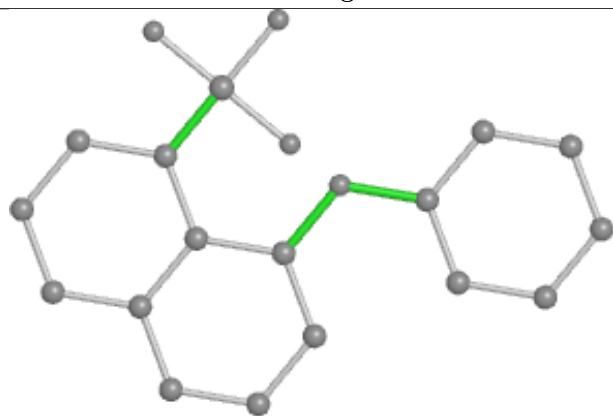
Ligand 2AN C 202



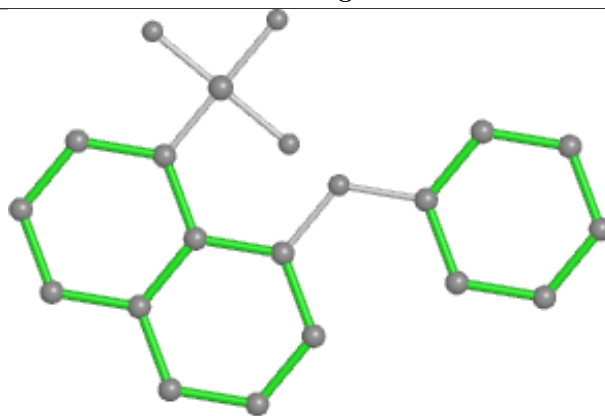
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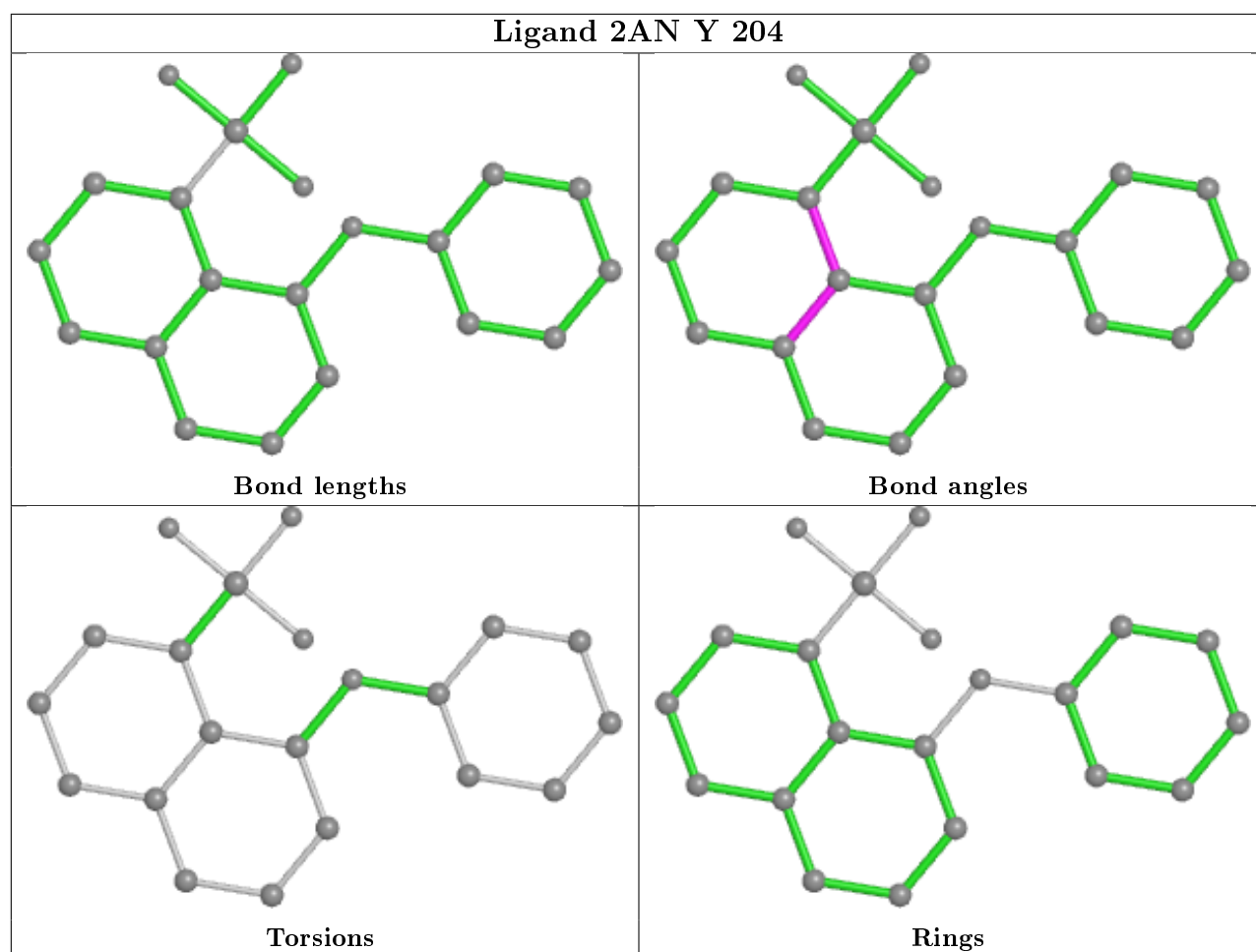
Bond angles



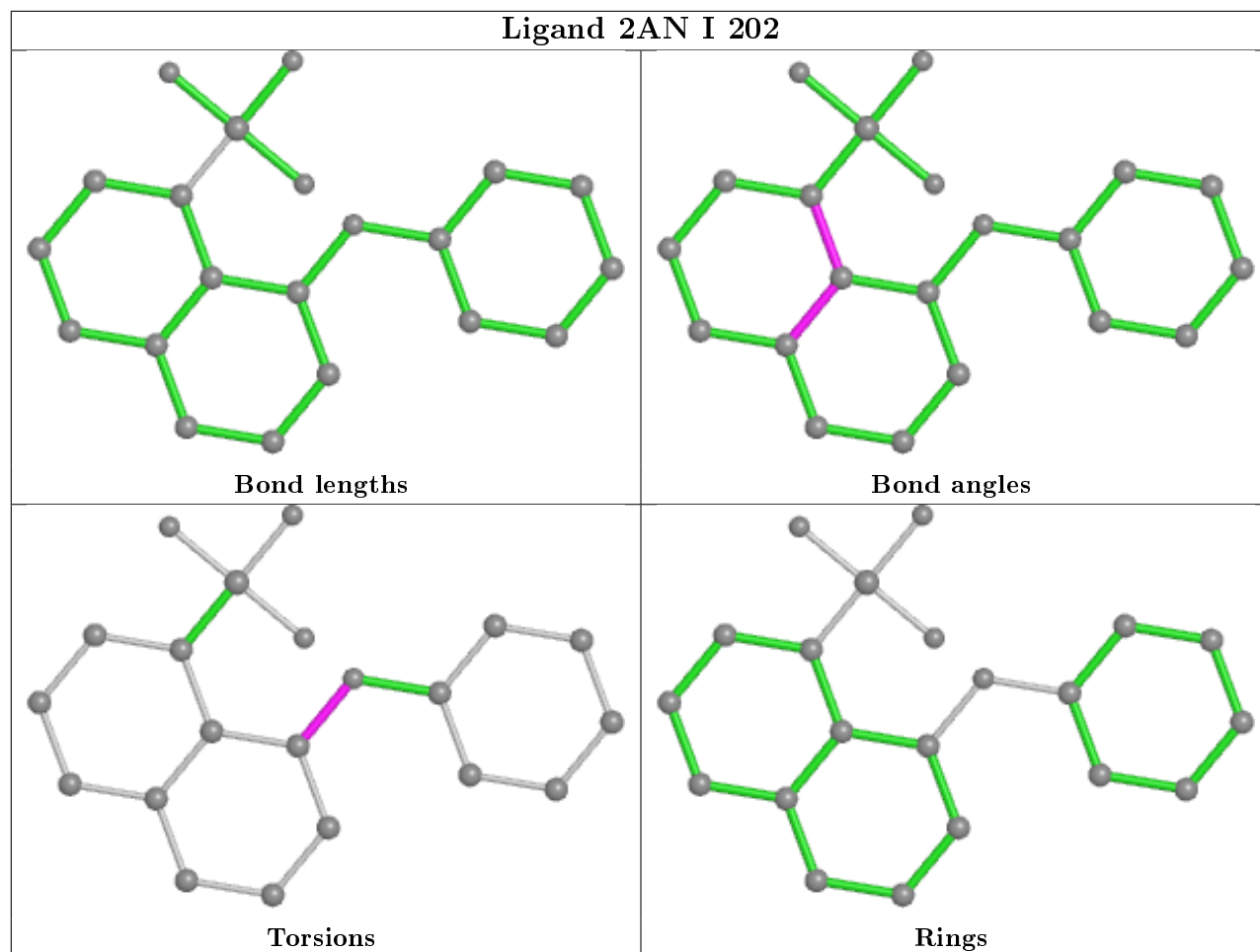
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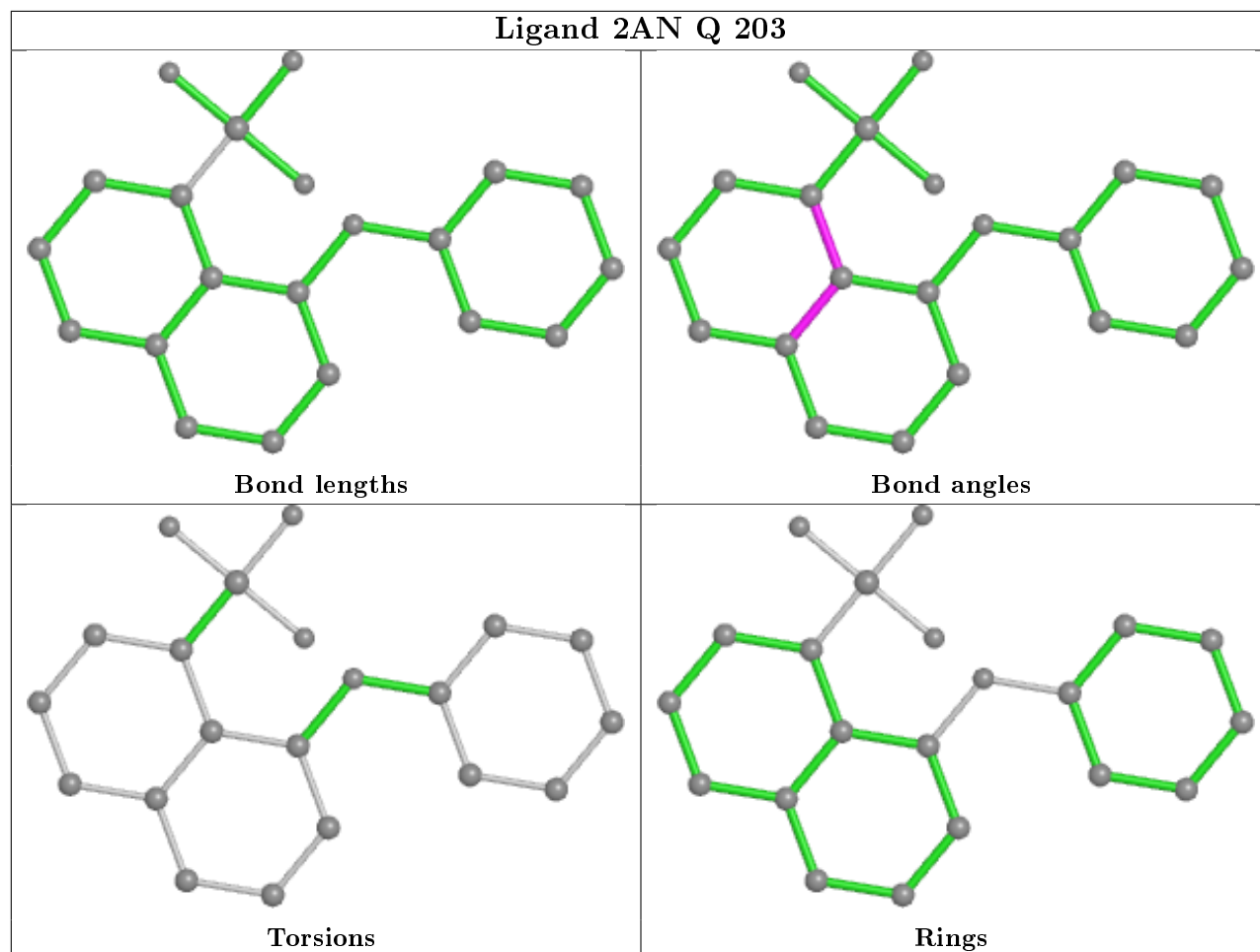


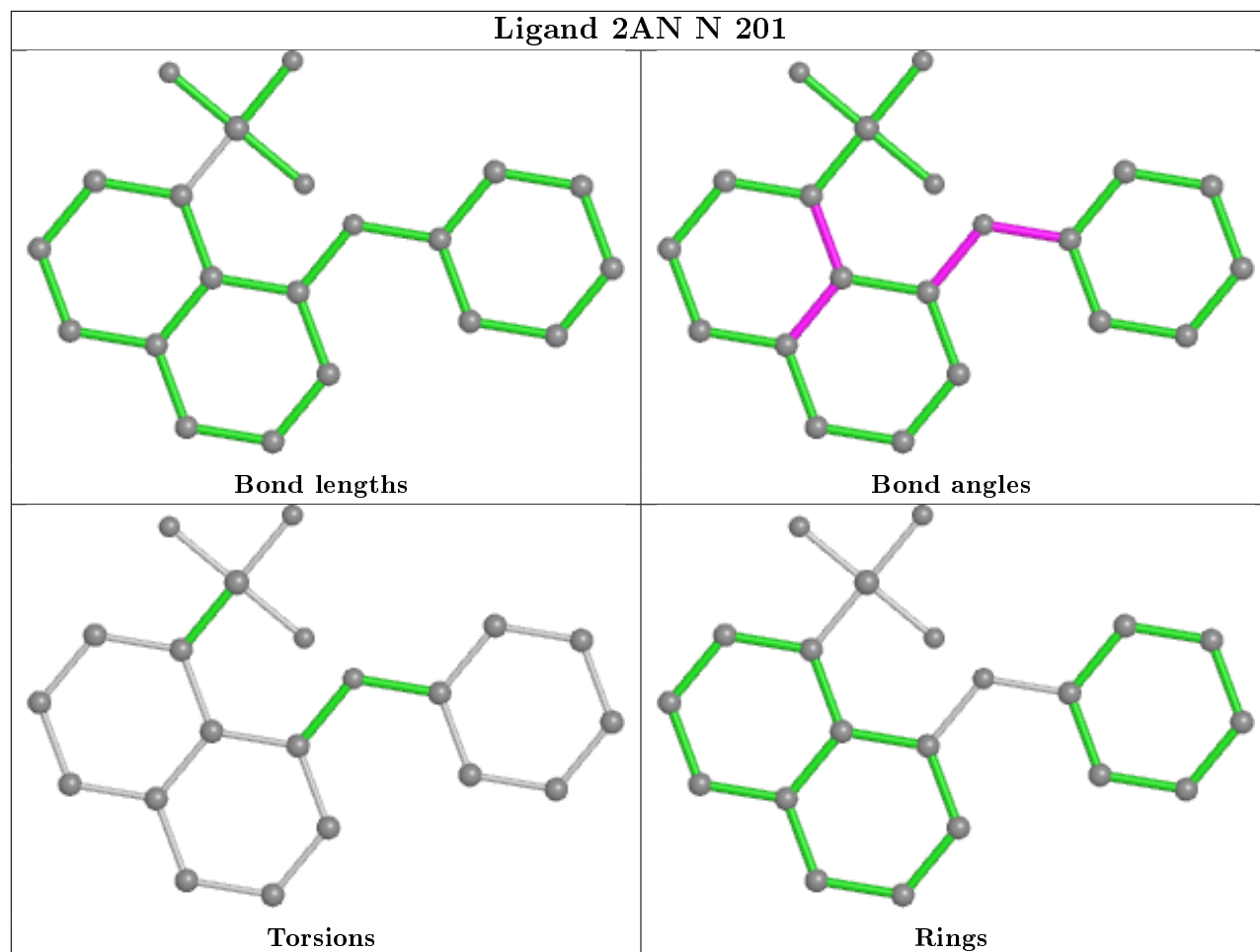
Rings



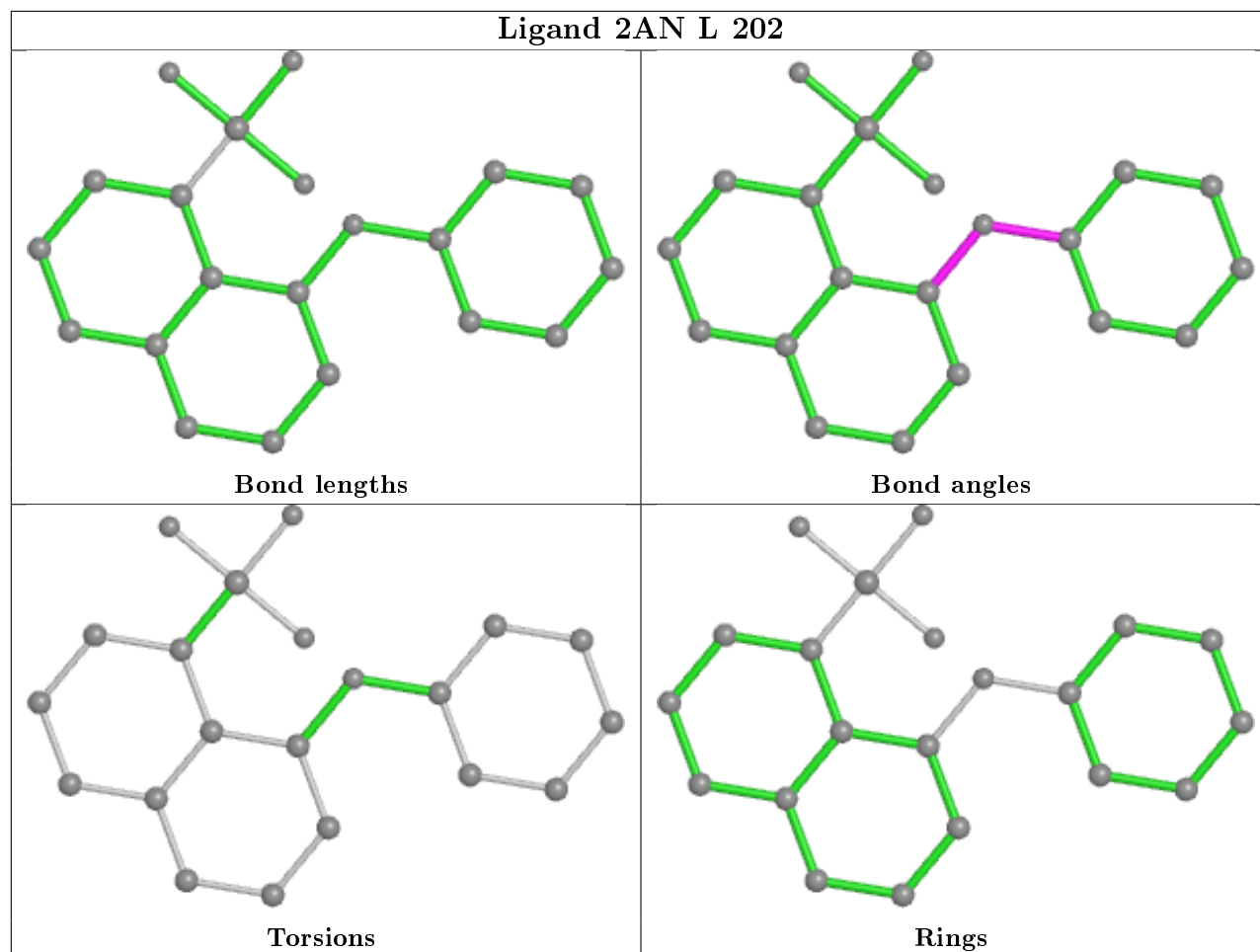
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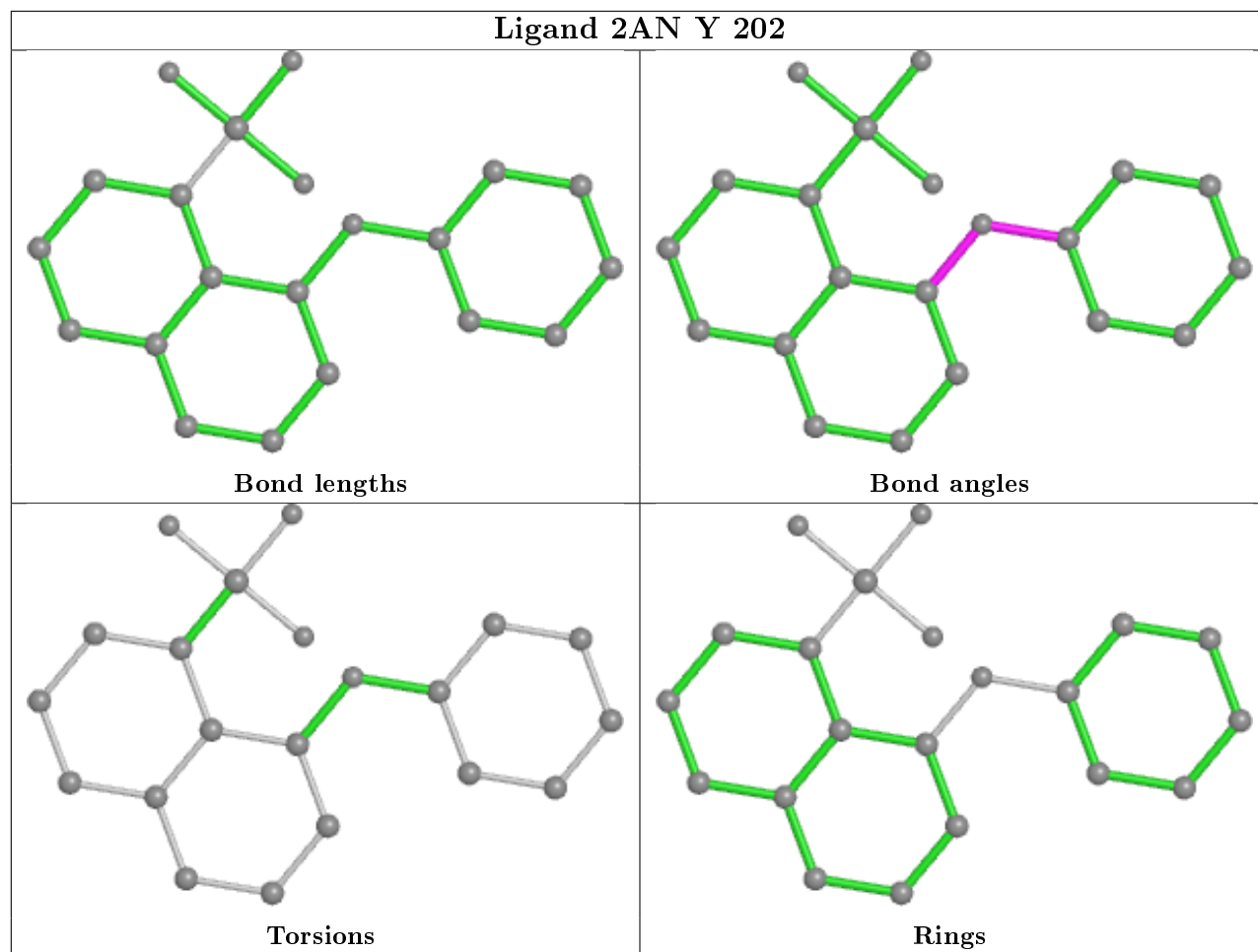




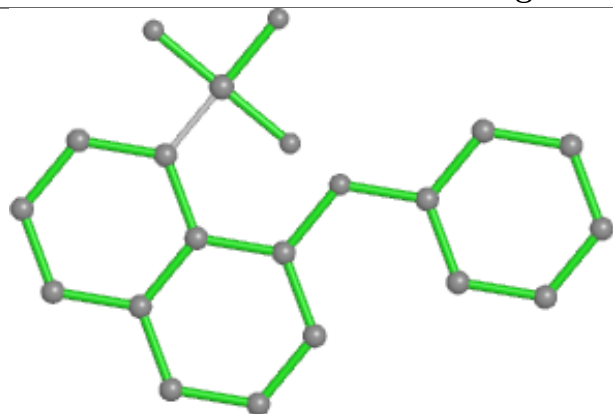


Ligand 2AN L 202

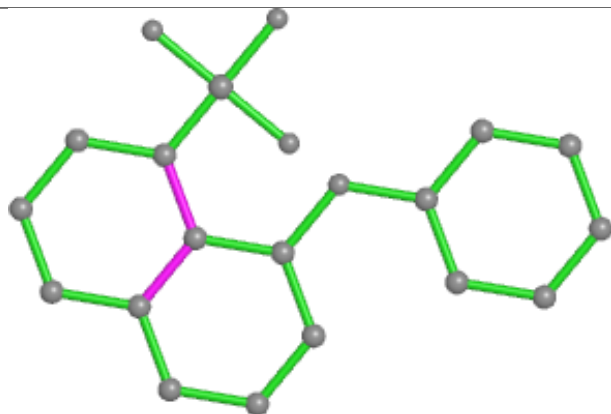




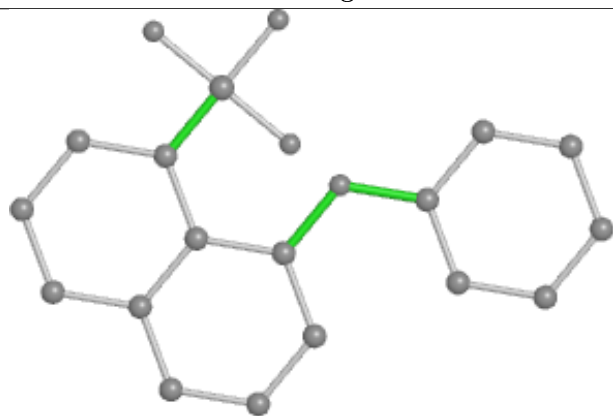
Ligand 2AN B 204



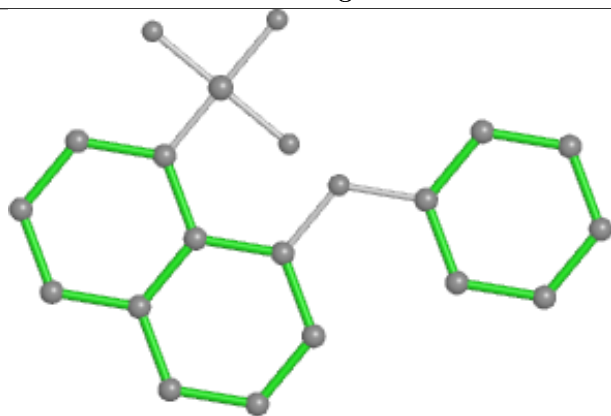
Bond lengths



Bond angles

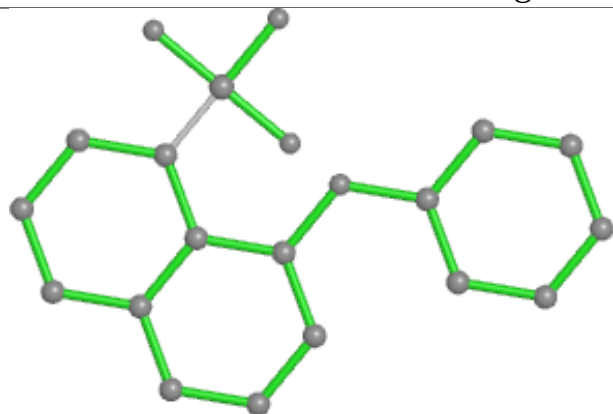


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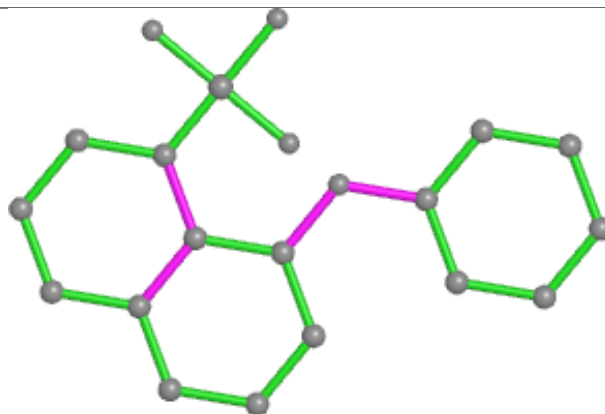


Rings

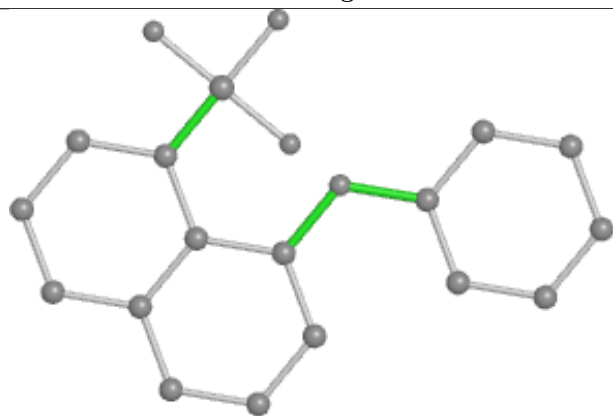
Ligand 2AN N 203



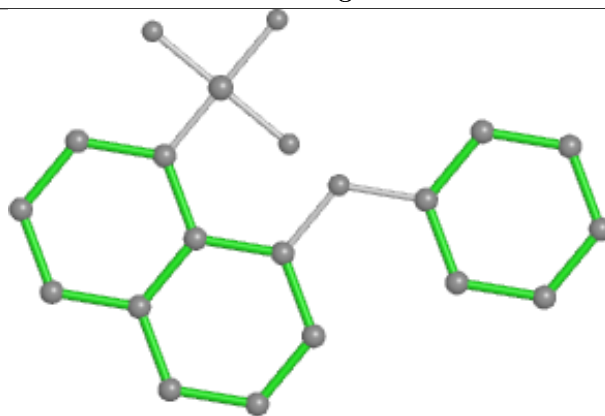
Bond lengths



Bond angles

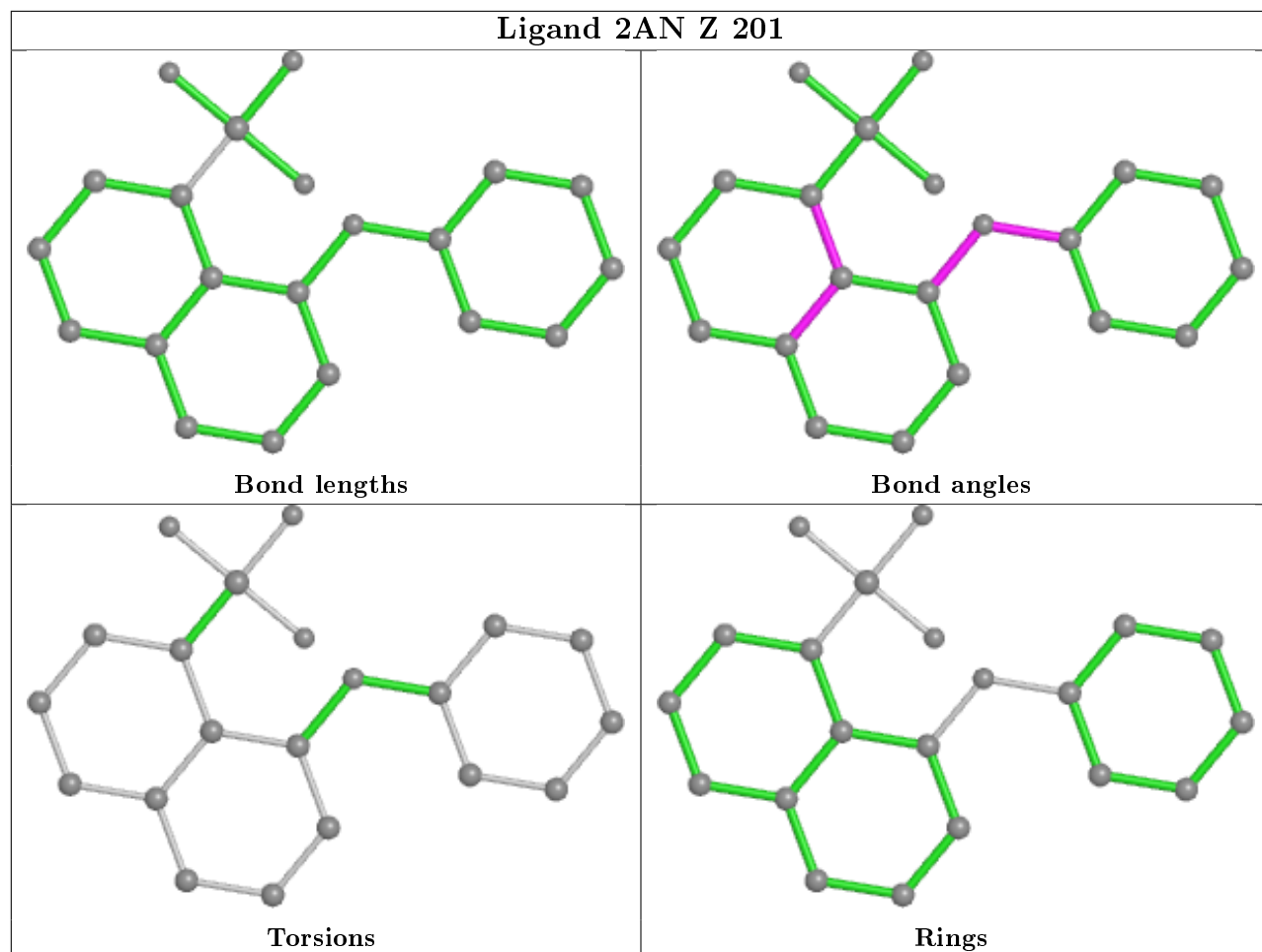


Torsions

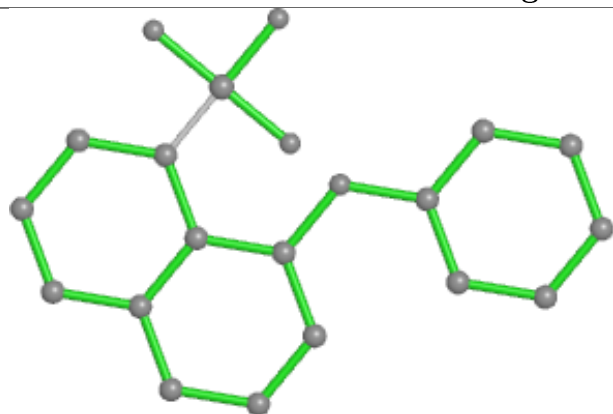


Rings

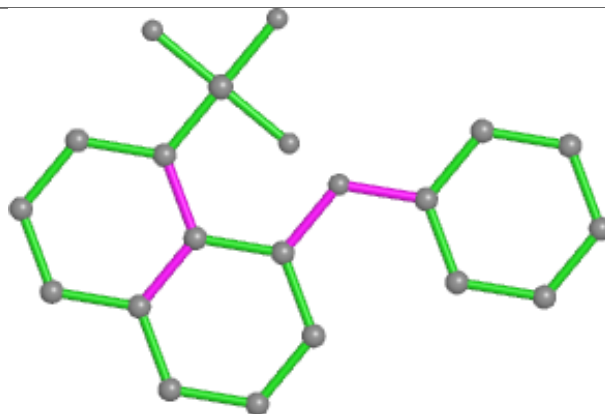
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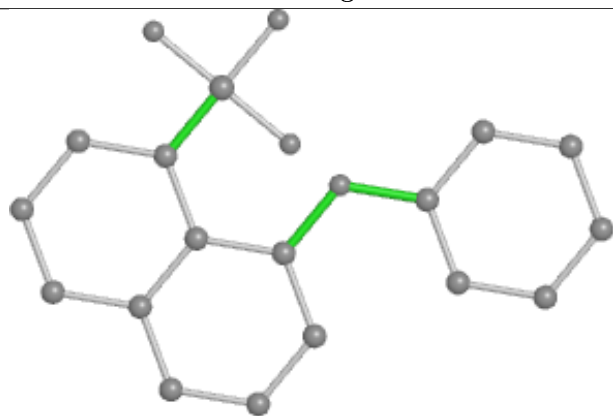
Ligand 2AN I 203



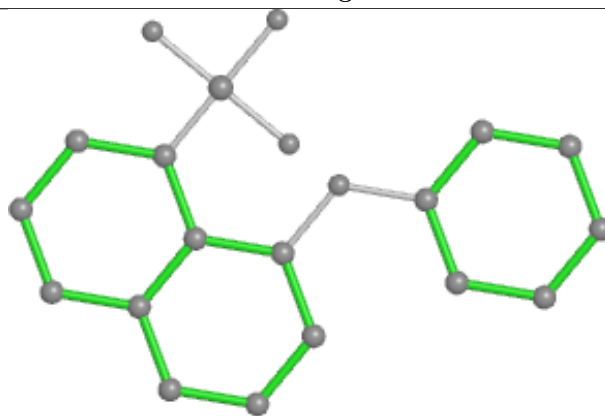
Bond lengths



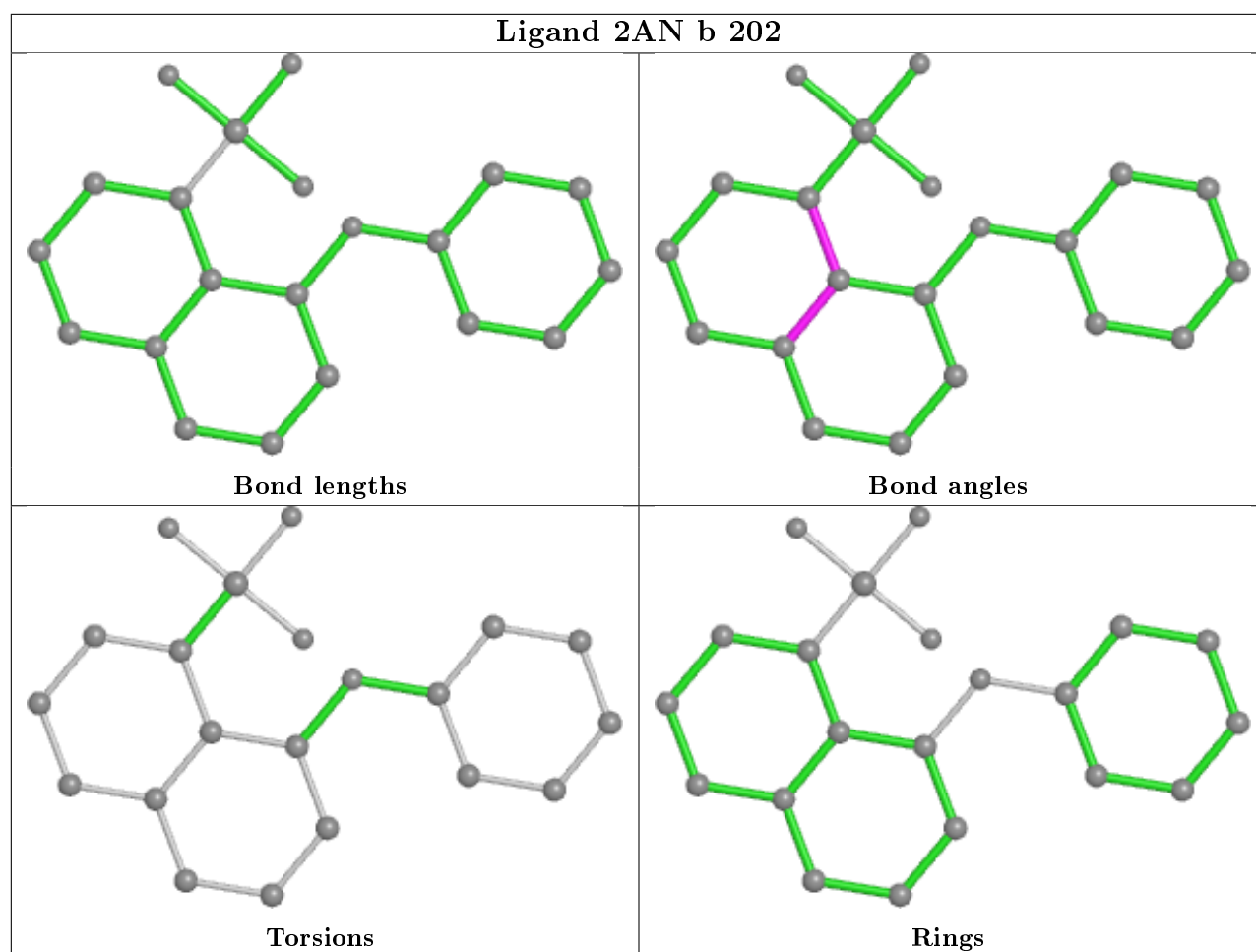
Bond angles



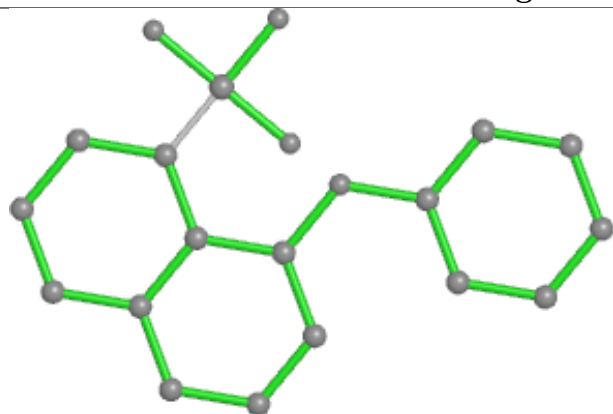
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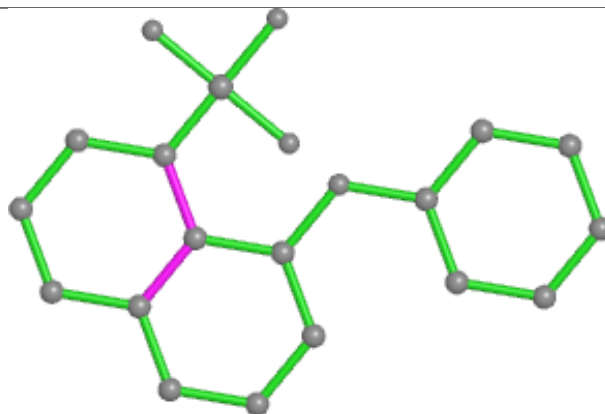
Rings



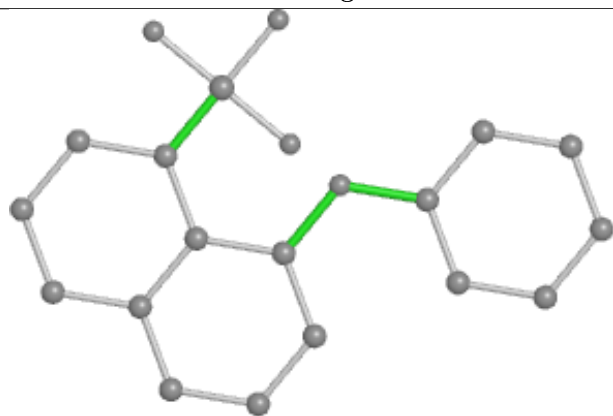
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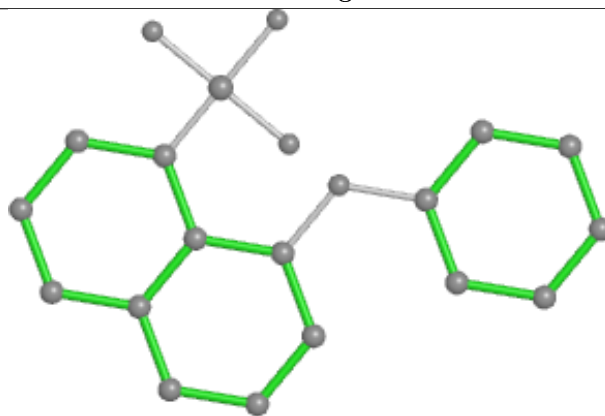
Bond lengths



Bond angles

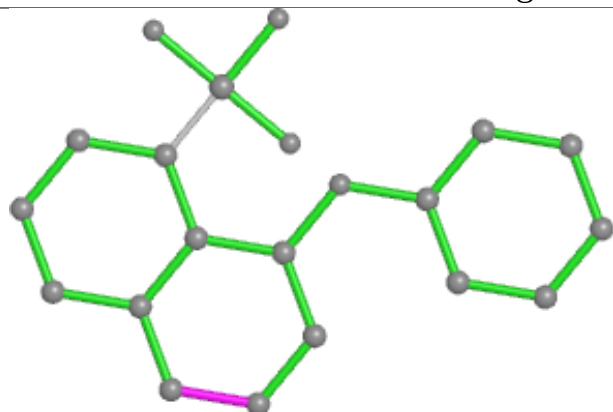


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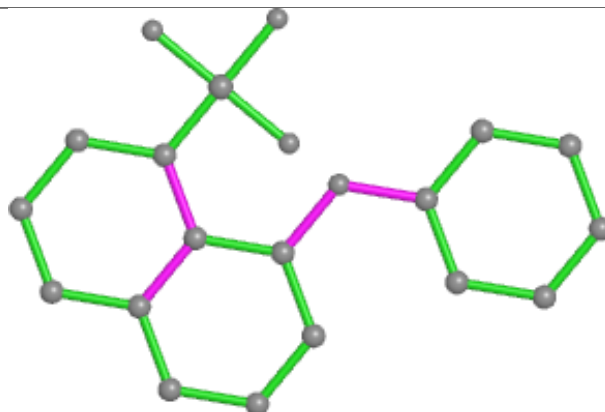


Rings

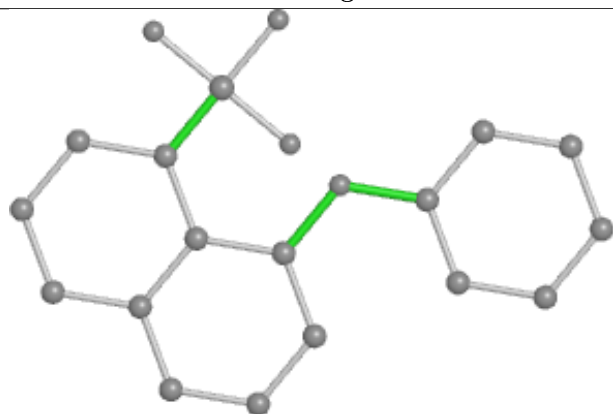
Ligand 2AN E 203



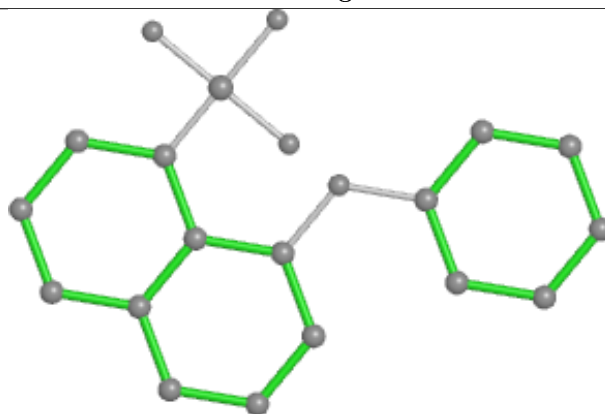
Bond lengths



Bond angles

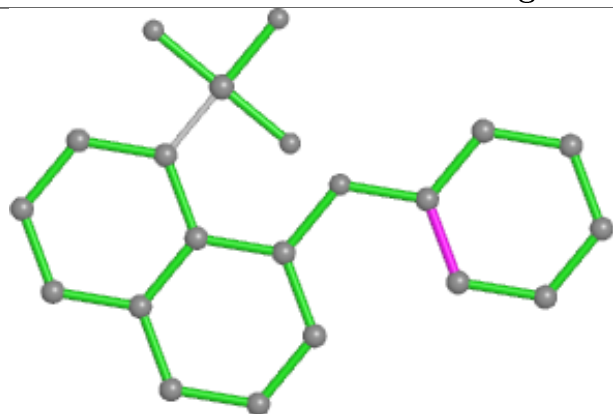


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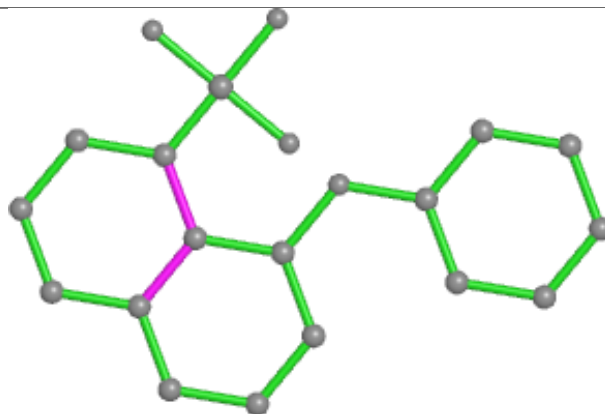


Rings

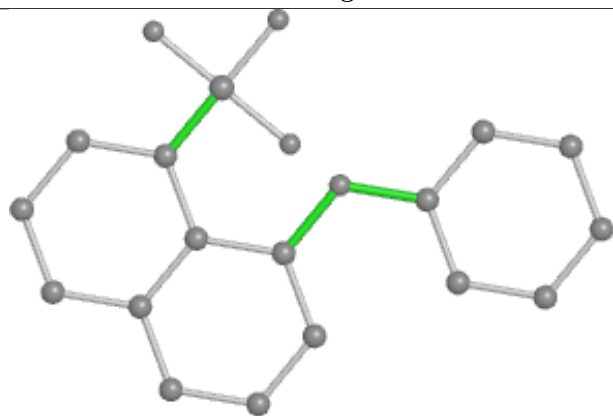
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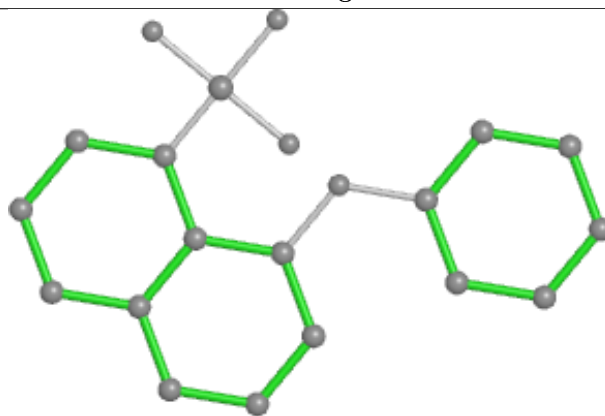
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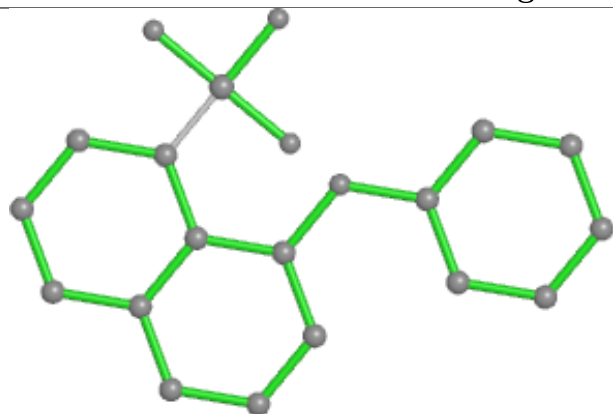


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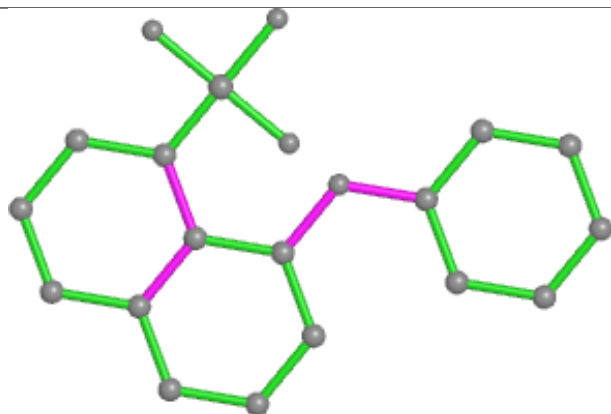


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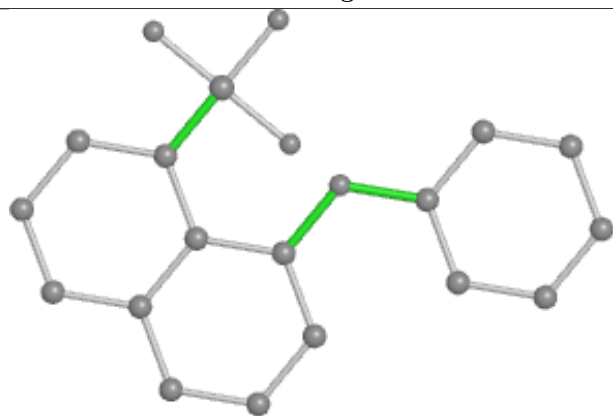
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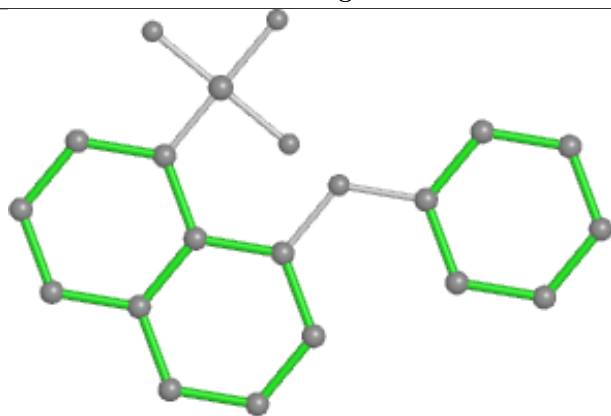
Bond lengths



Bond angles

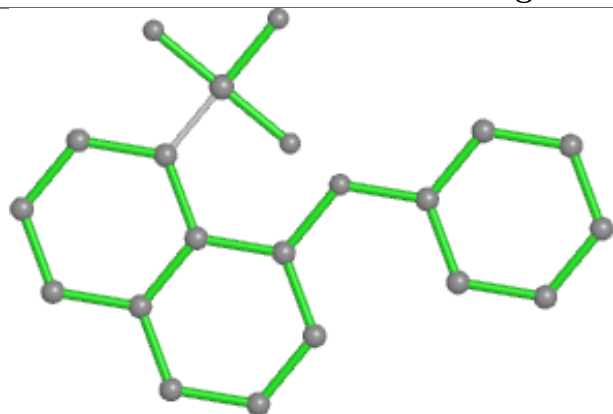


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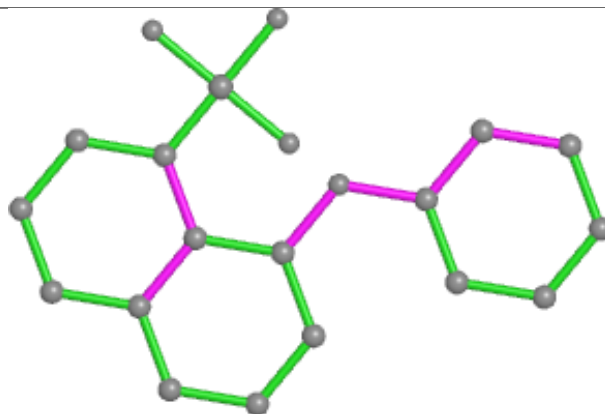


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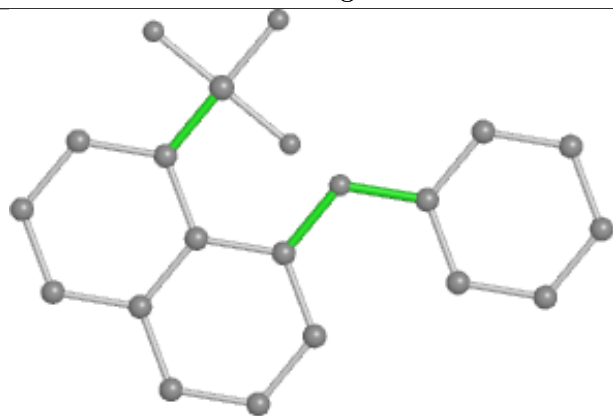
Ligand 2AN B 202



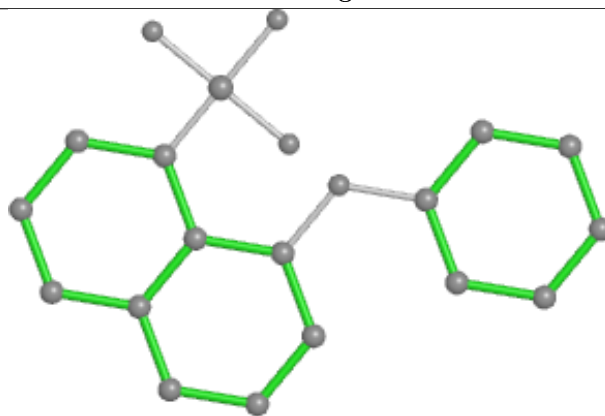
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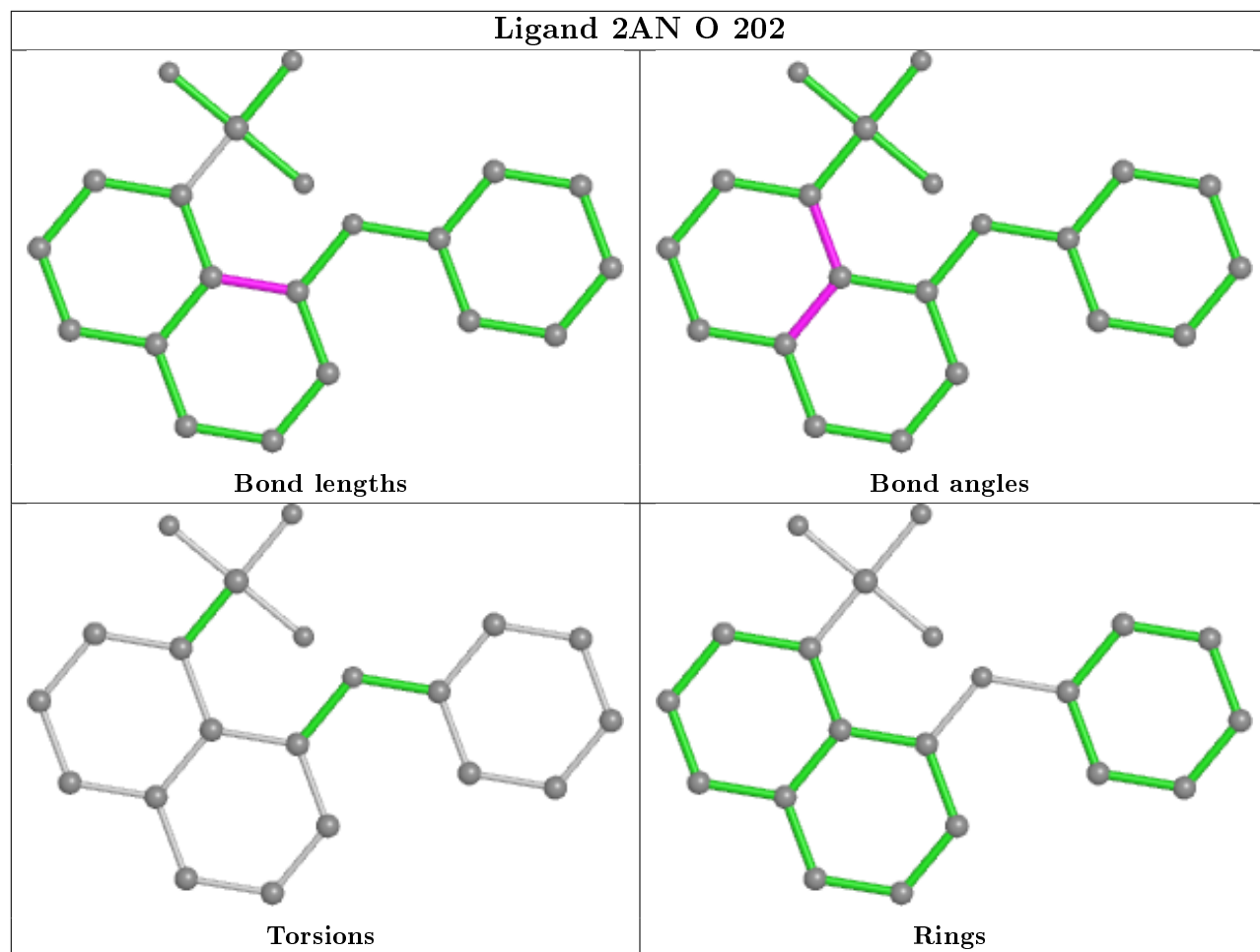
Bond angles



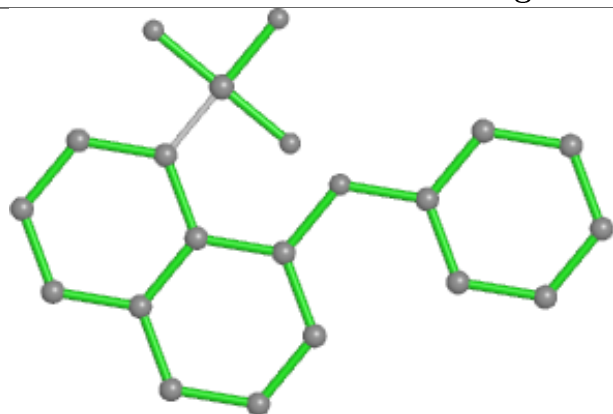
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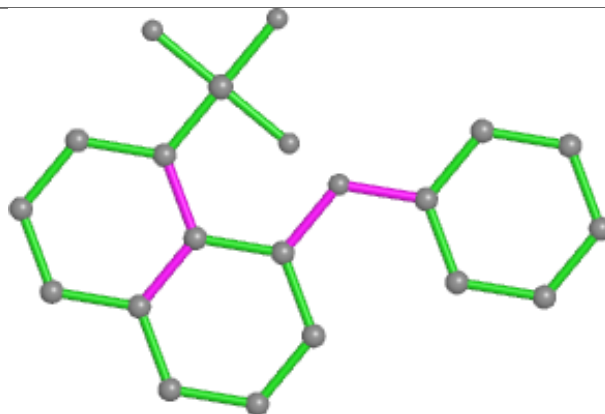
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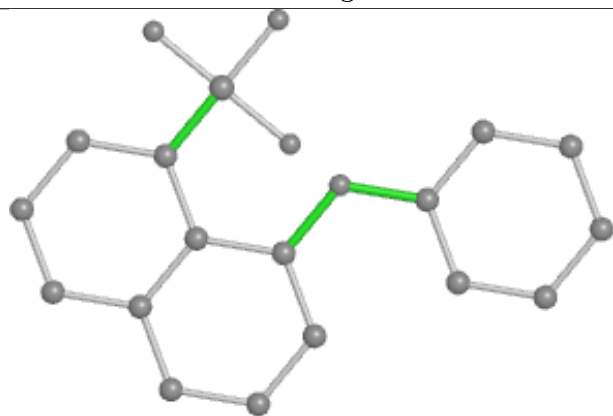
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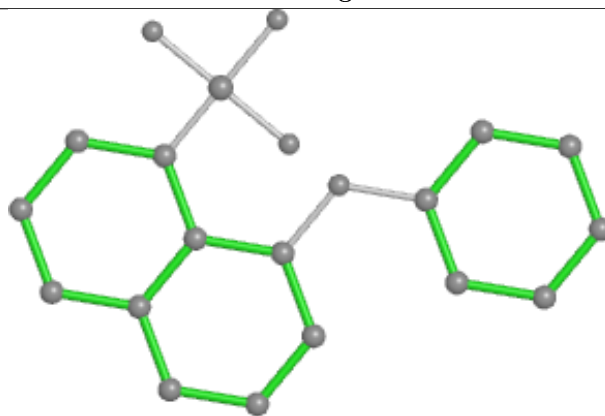
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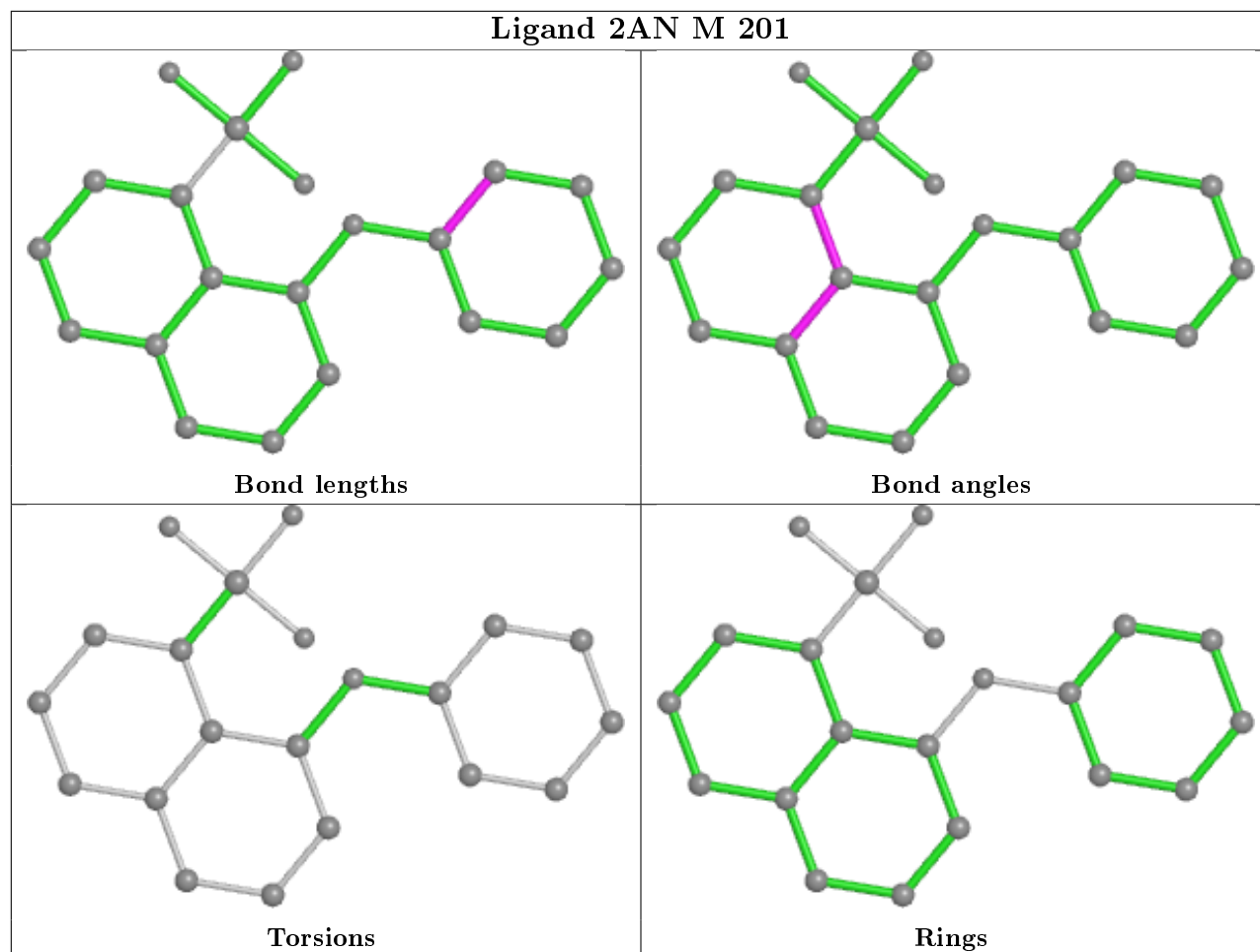
Bond angles

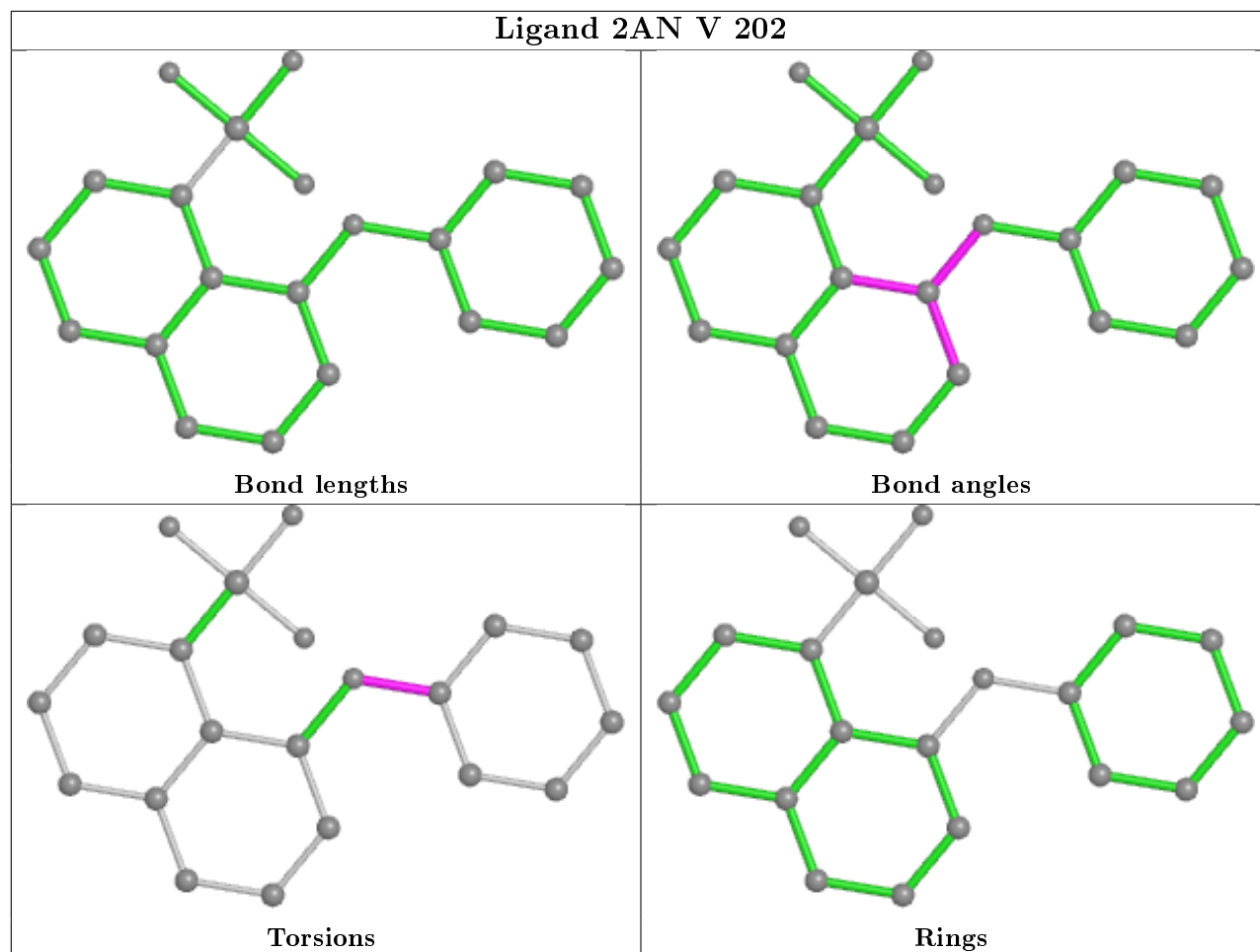


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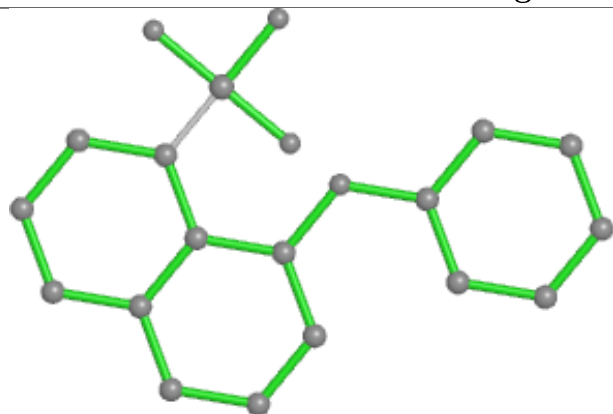


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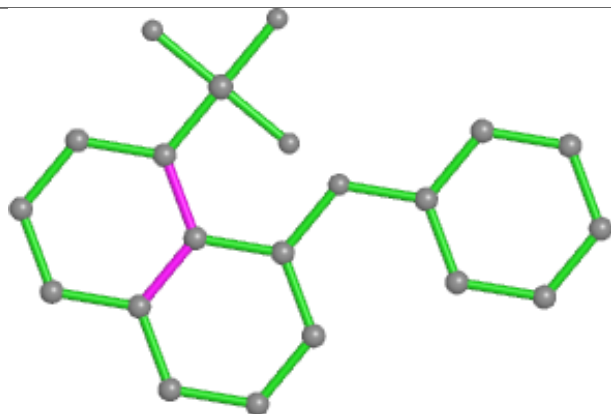




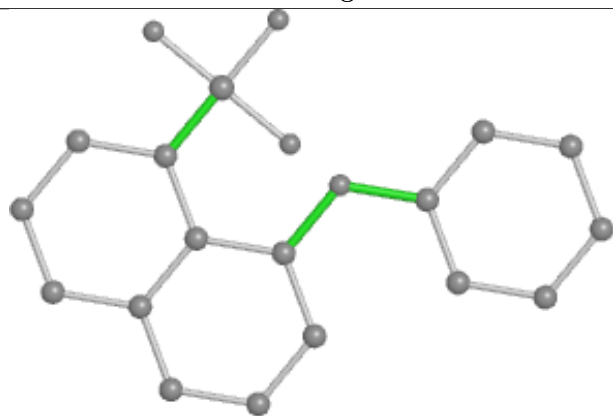
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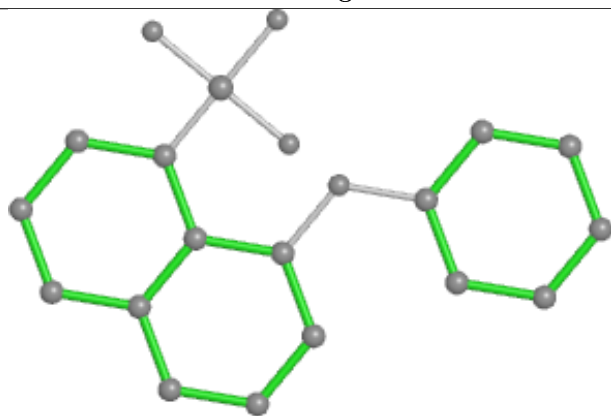
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Bond angles

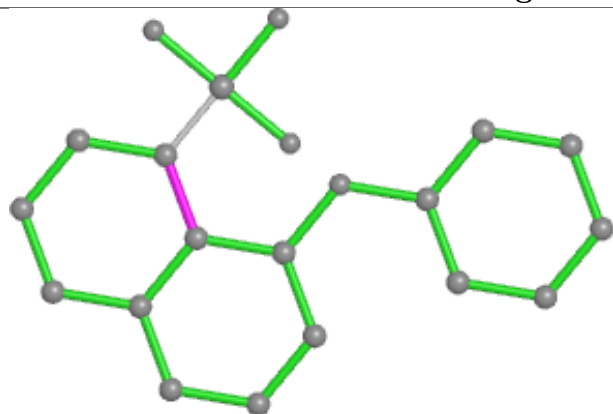


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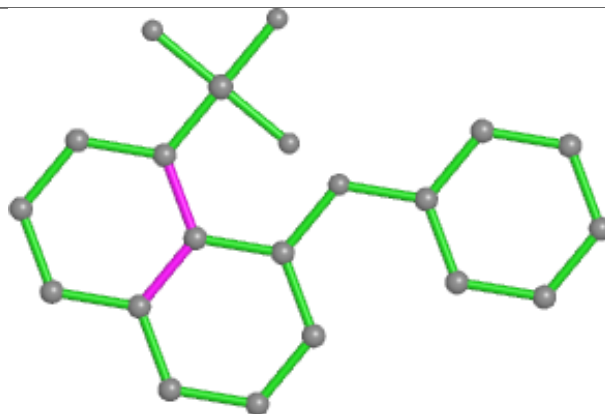


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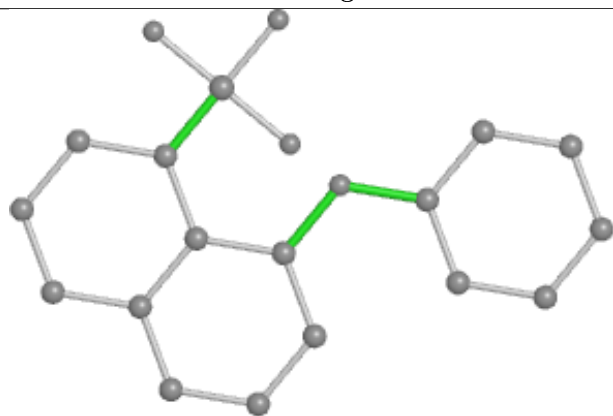
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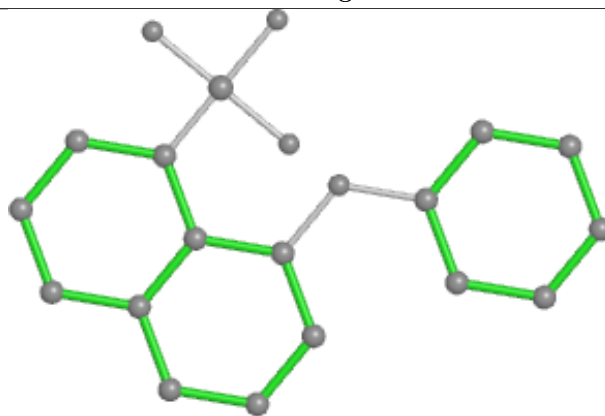
Bond lengths



Bond angles

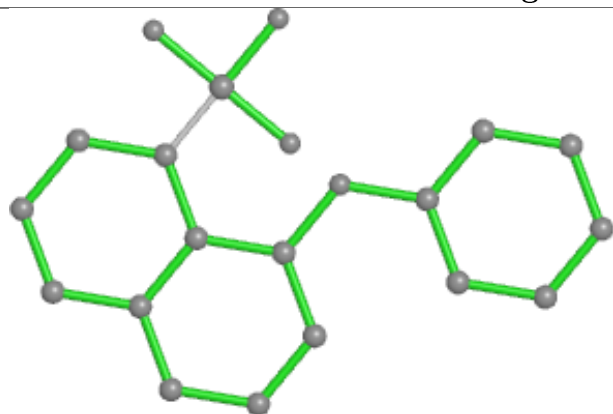


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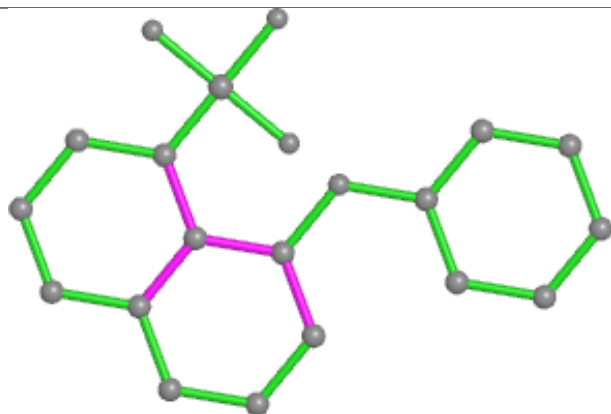


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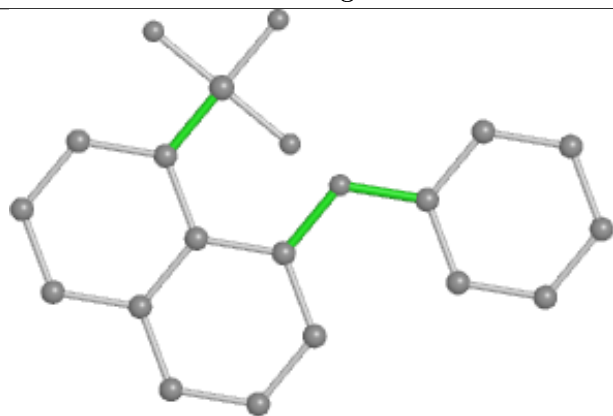
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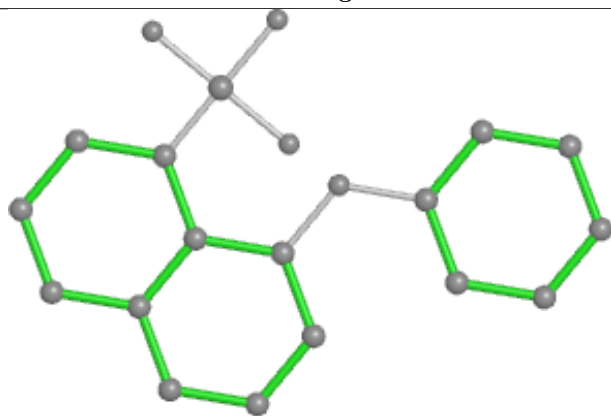
Bond lengths



Bond angles

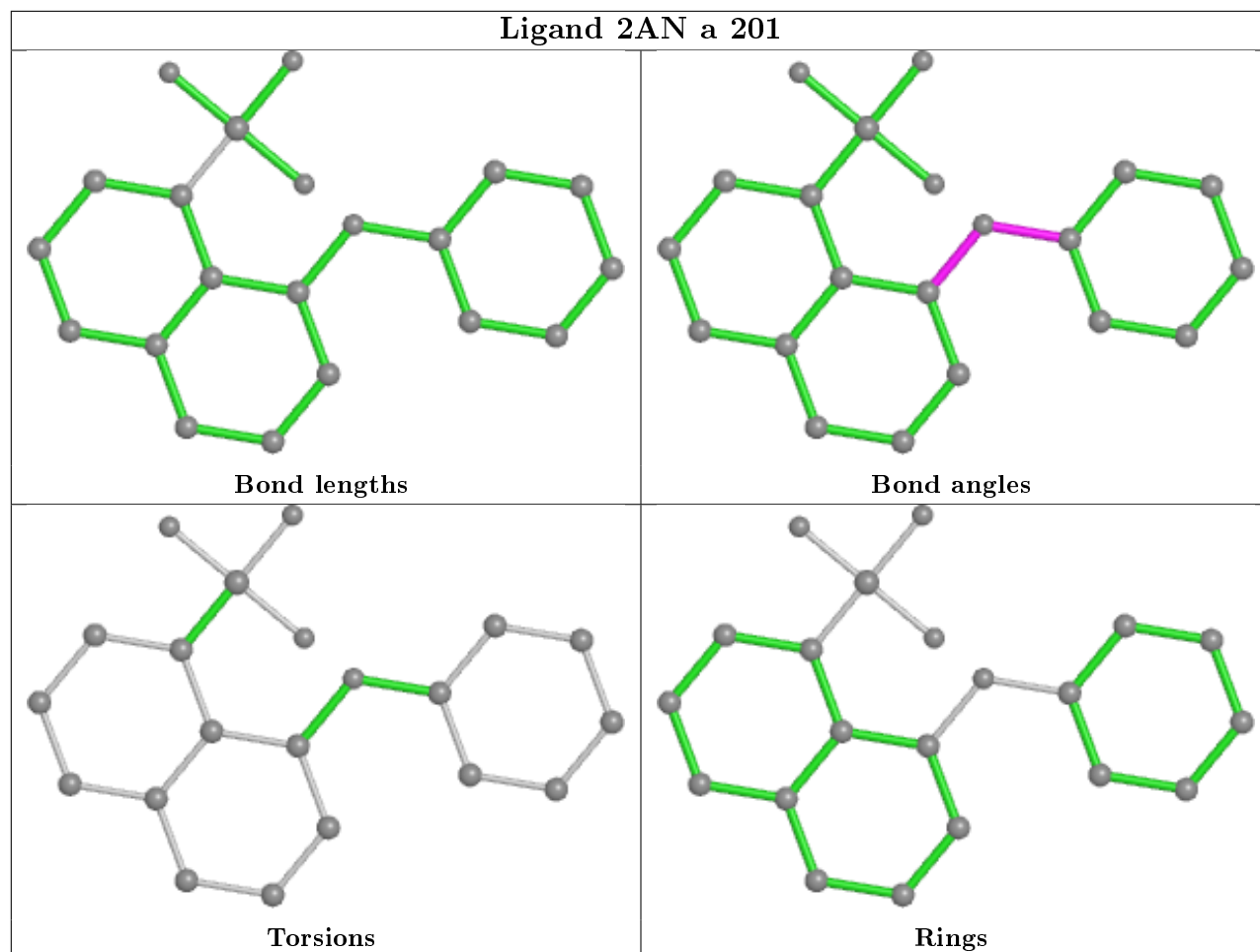


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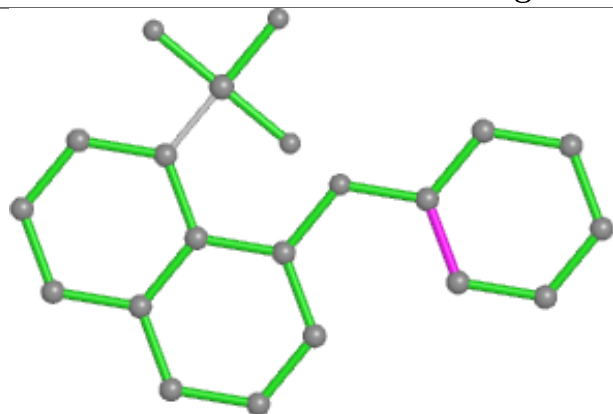


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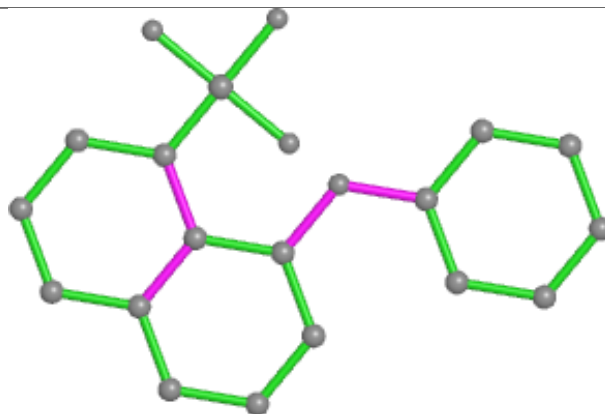
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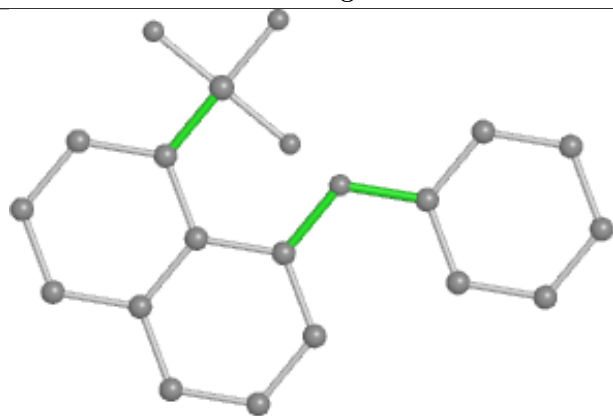
Ligand 2AN H 203



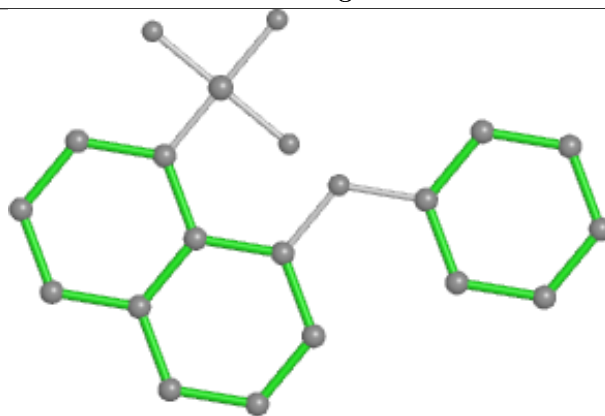
Bond lengths



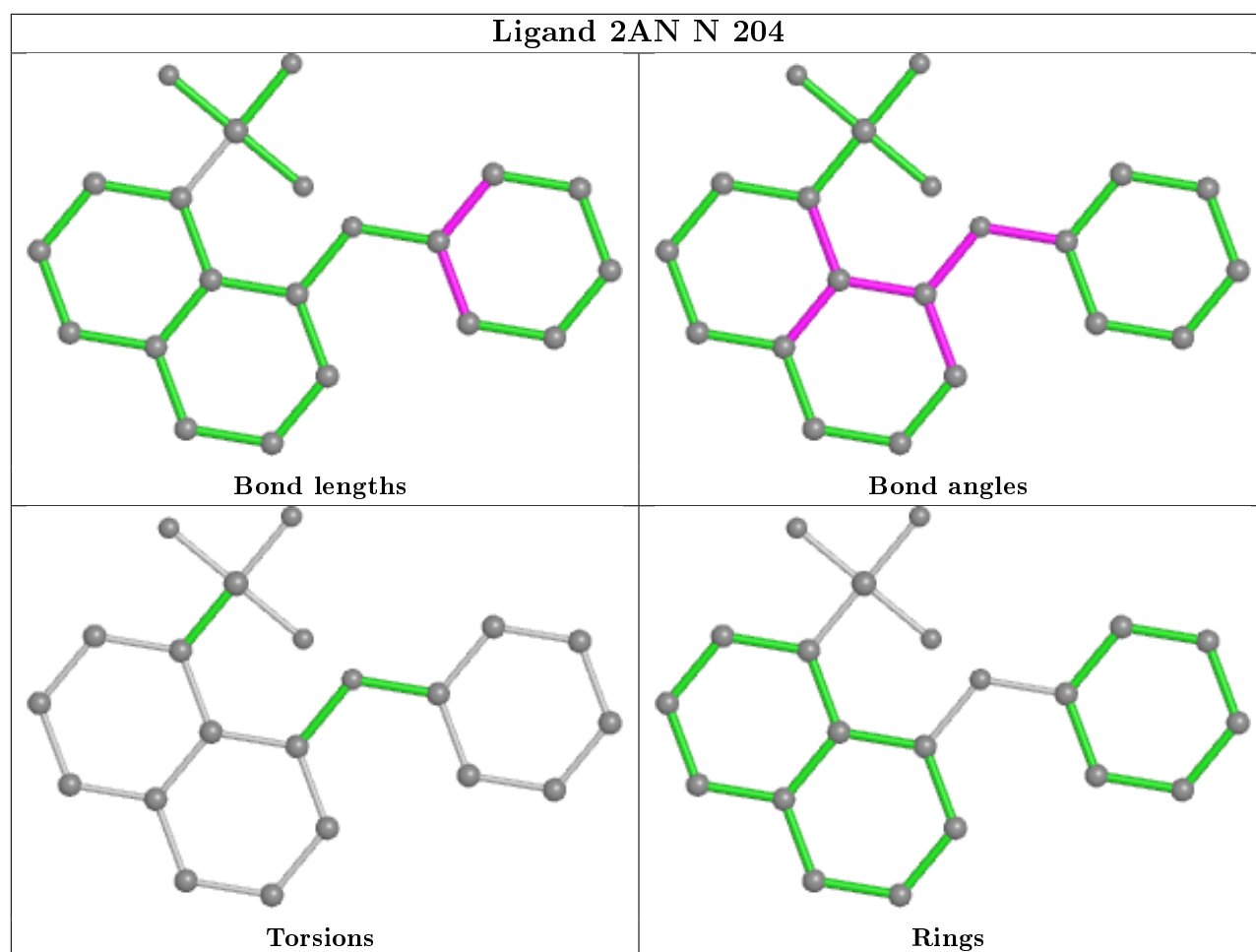
Bond angles

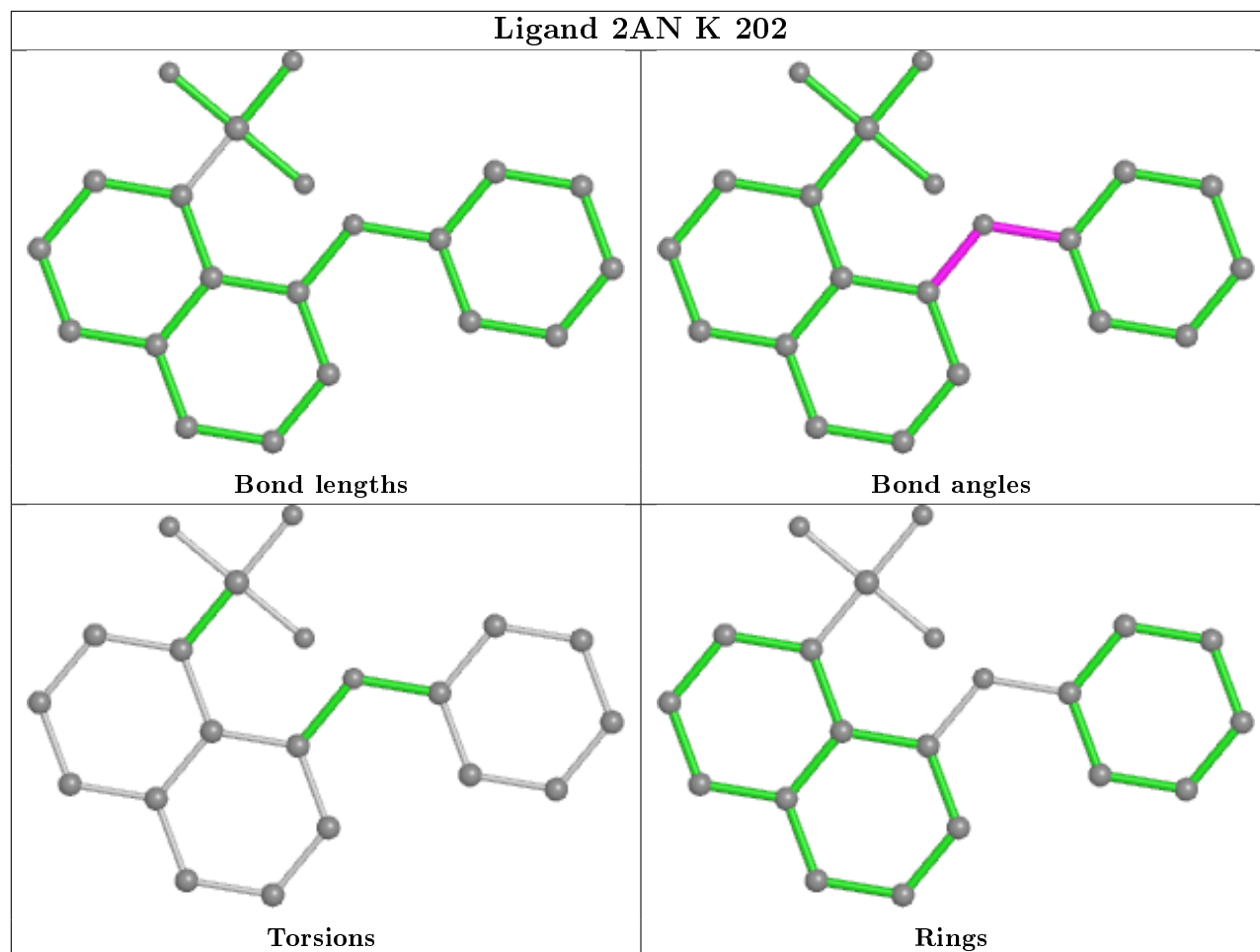


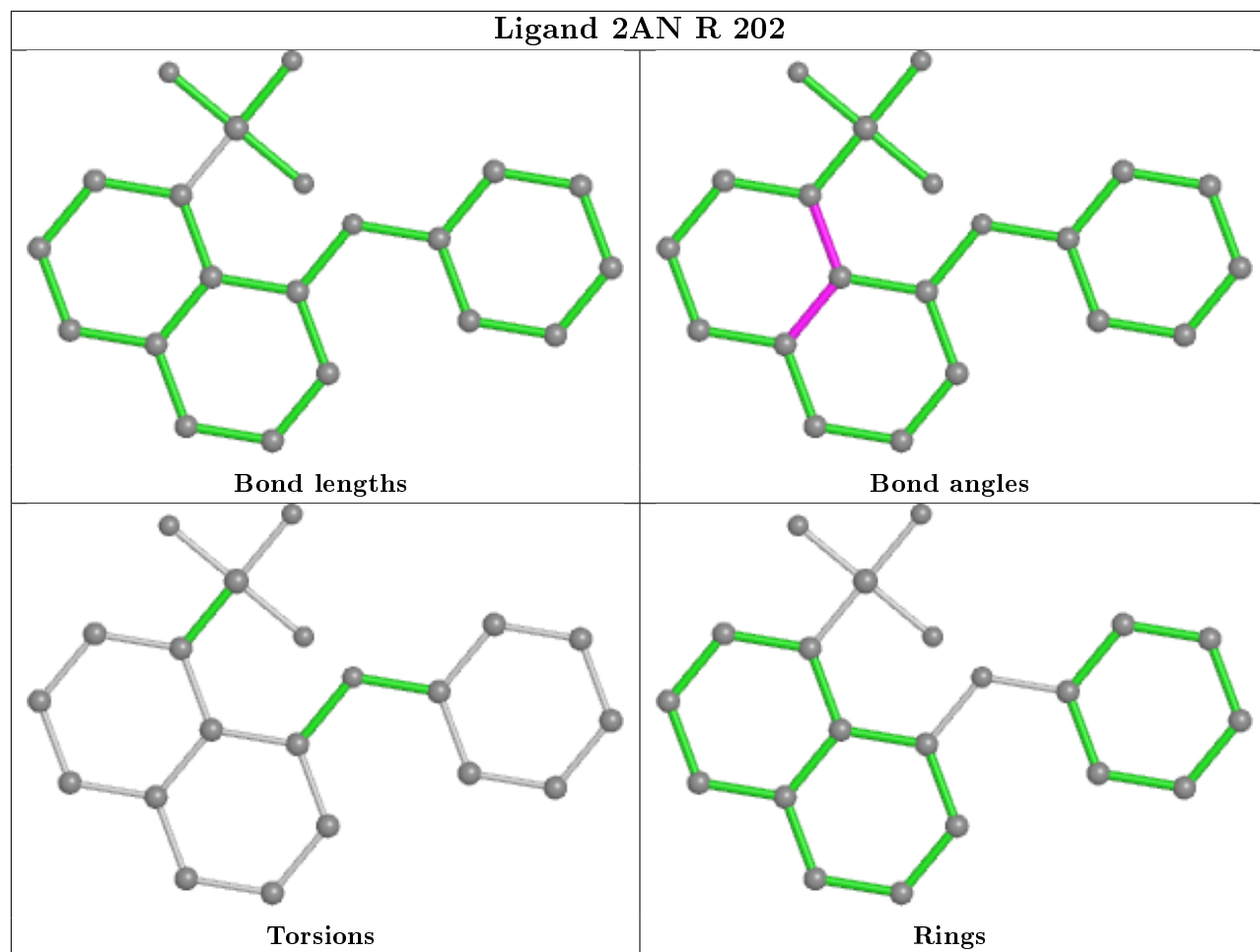
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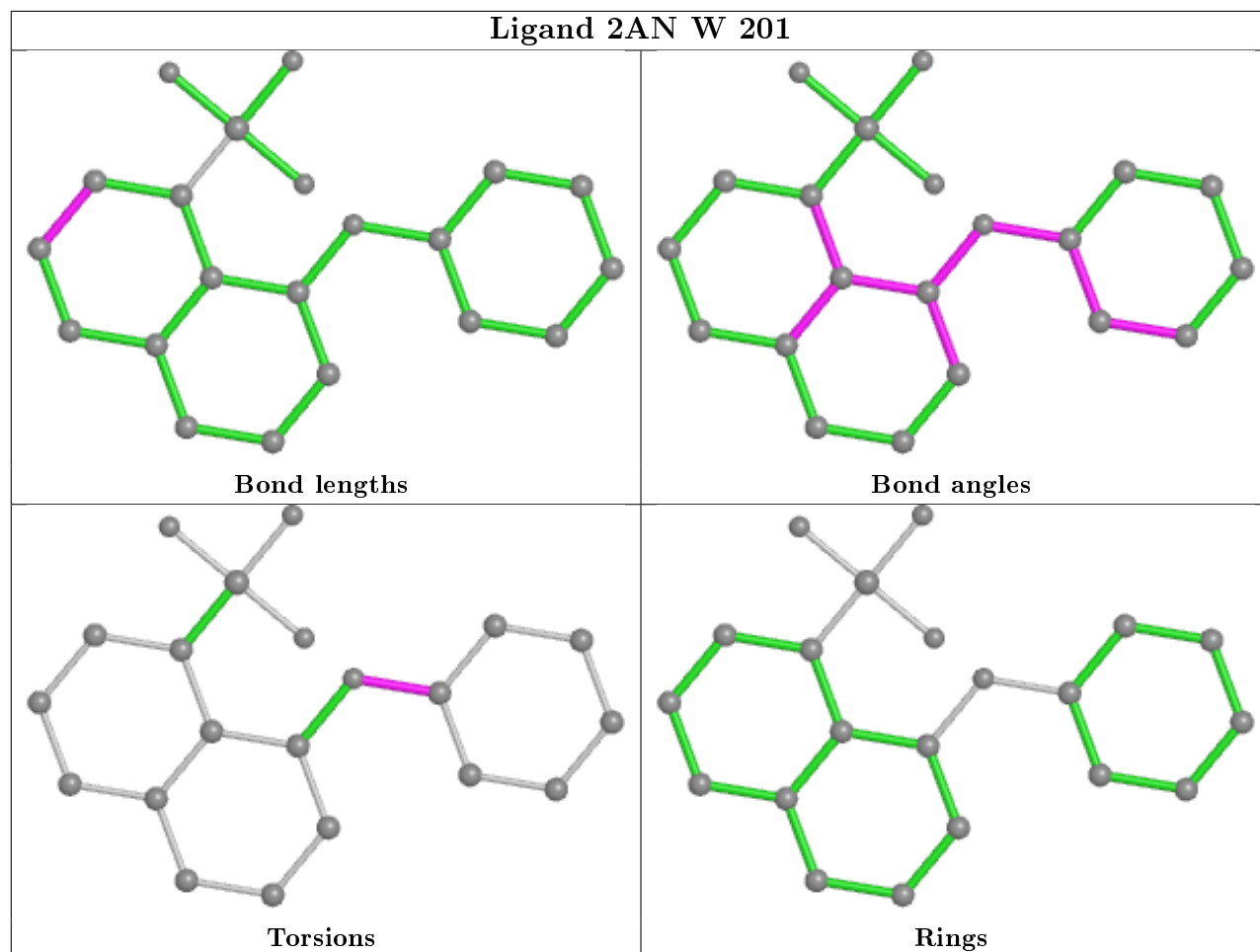


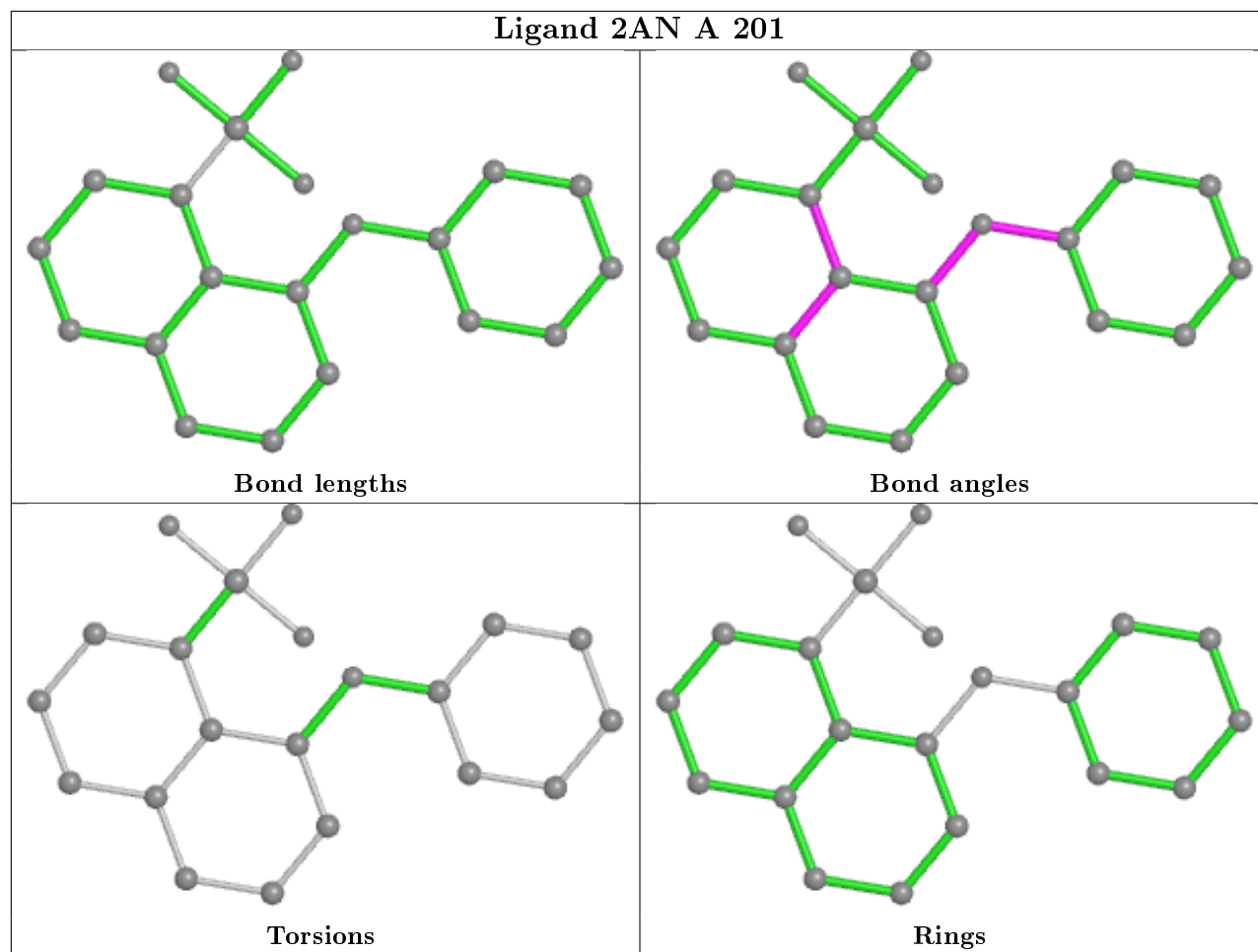
Rings

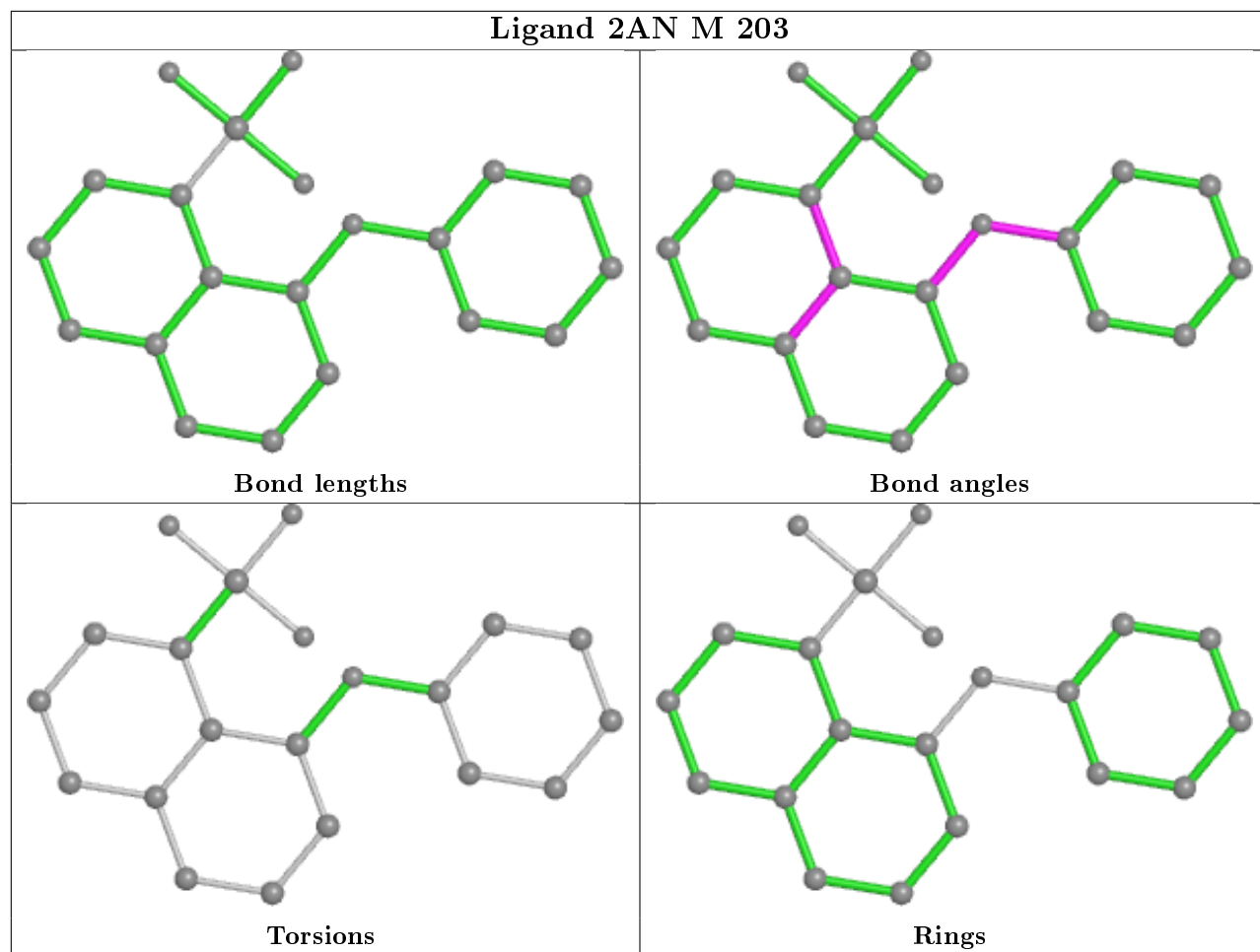


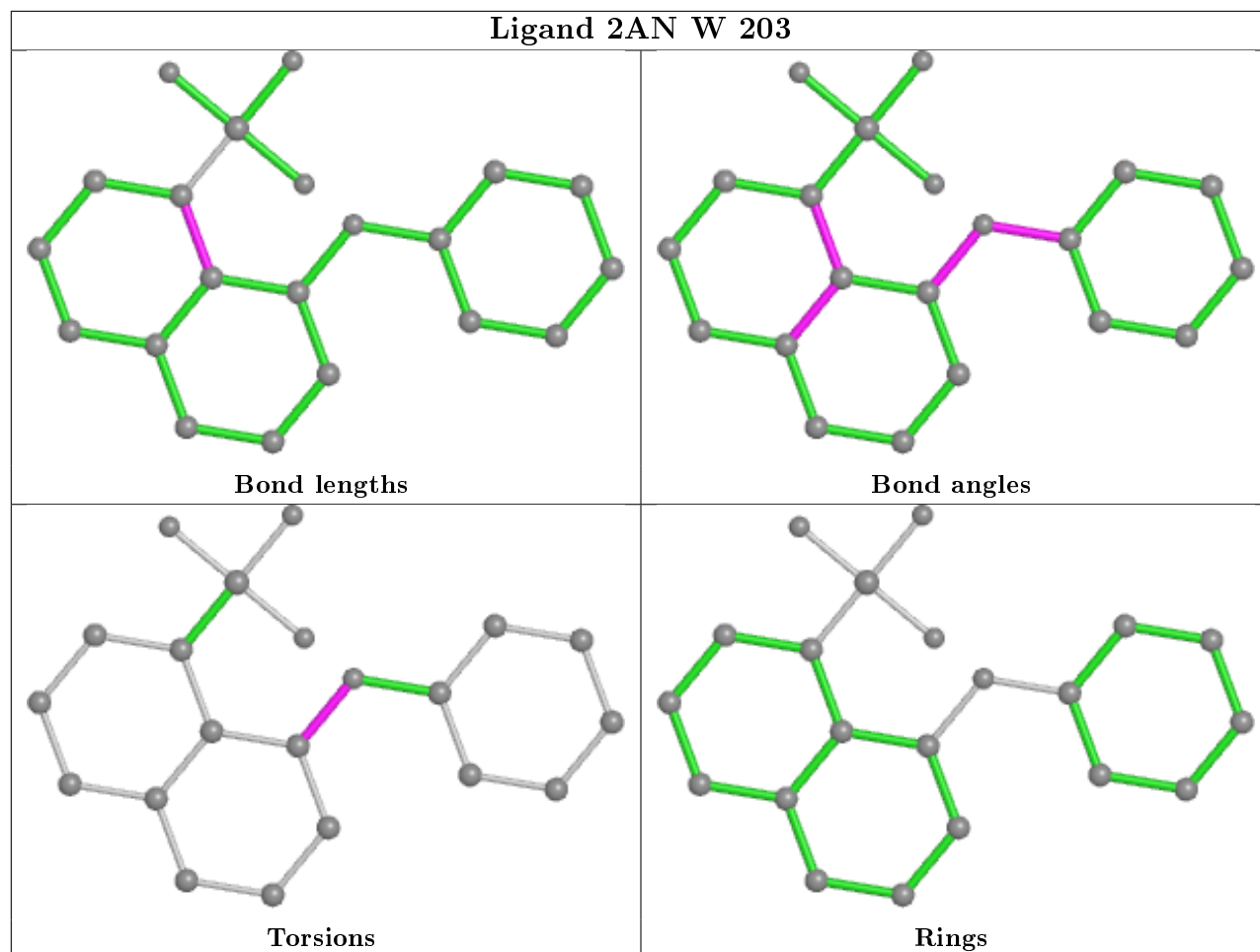


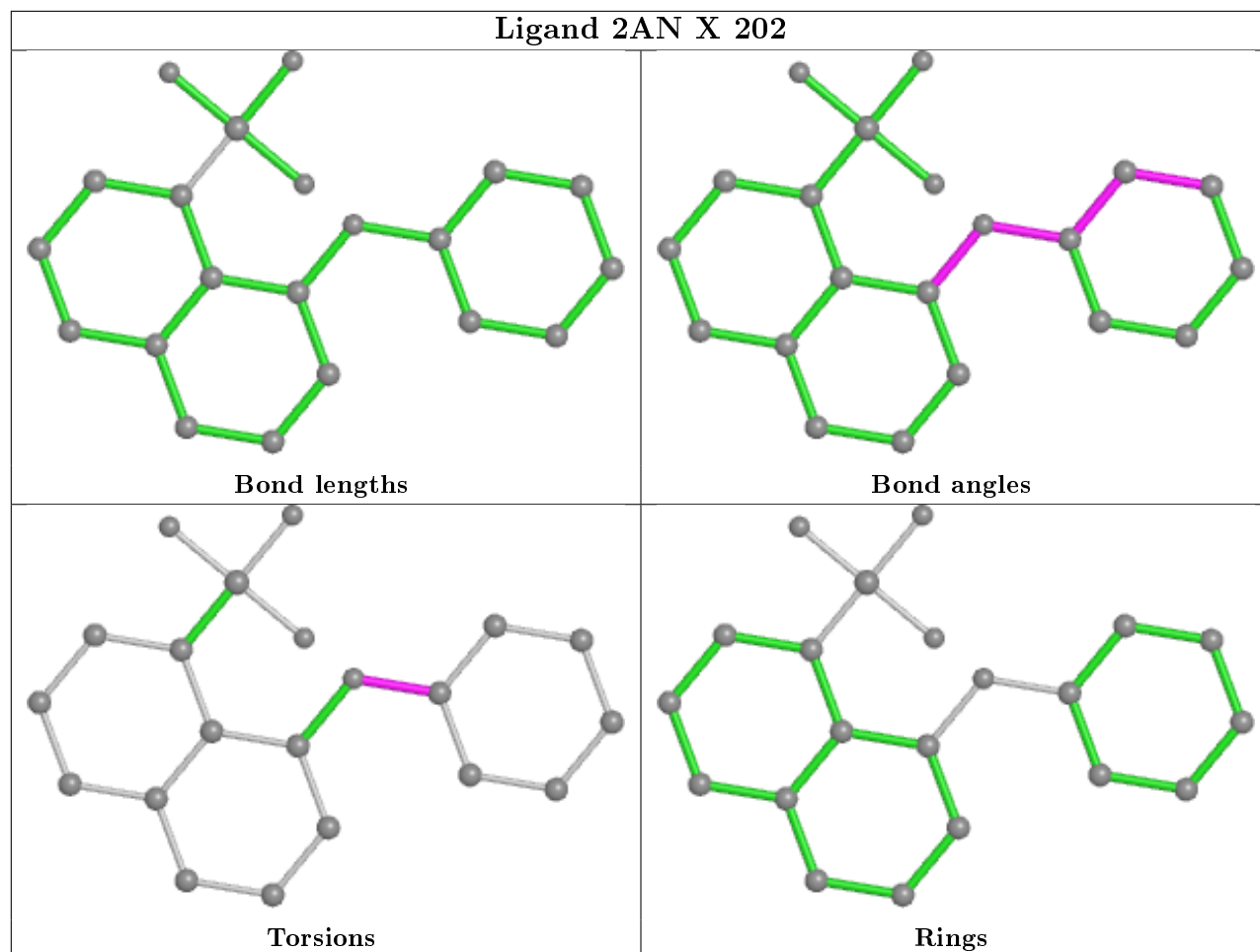


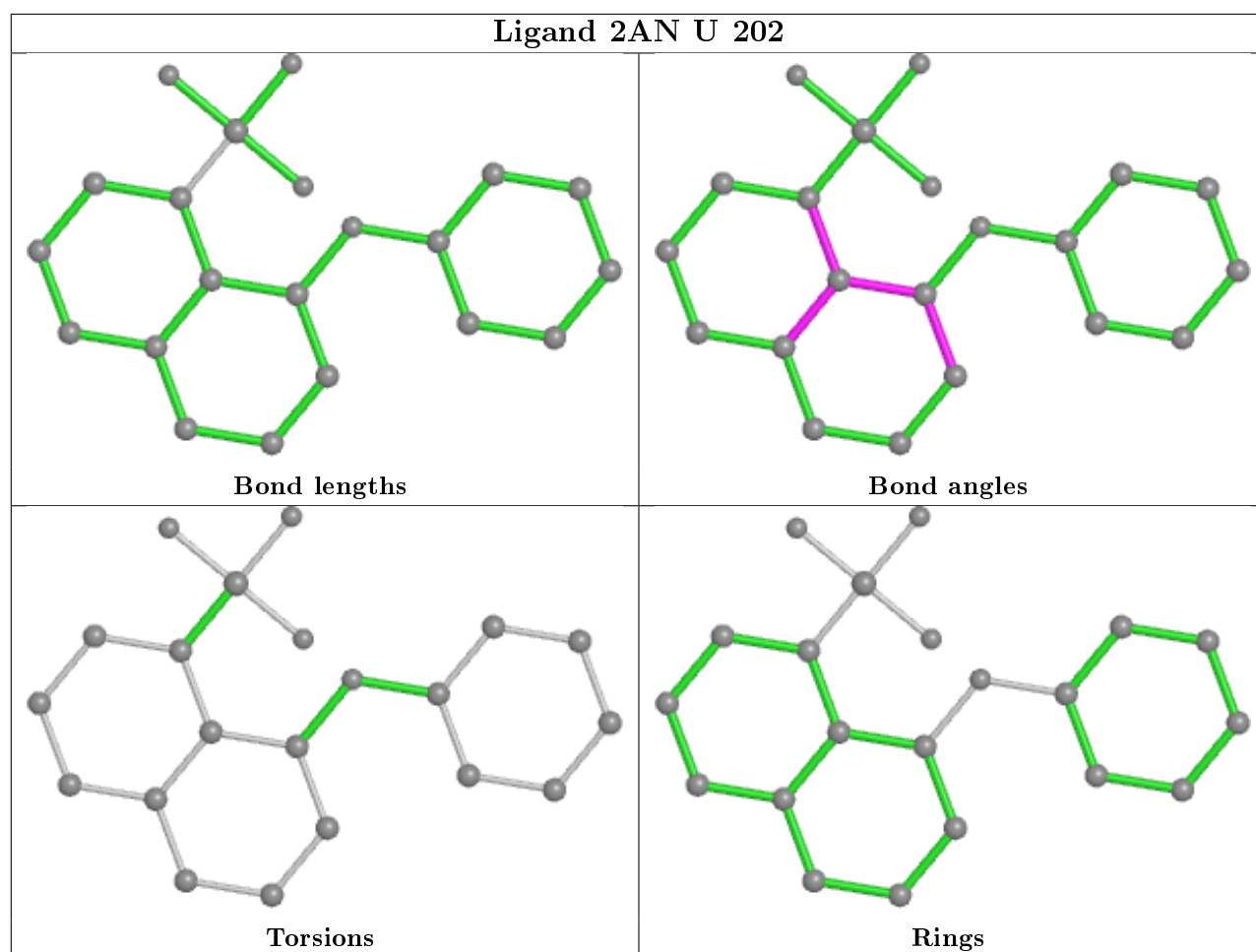




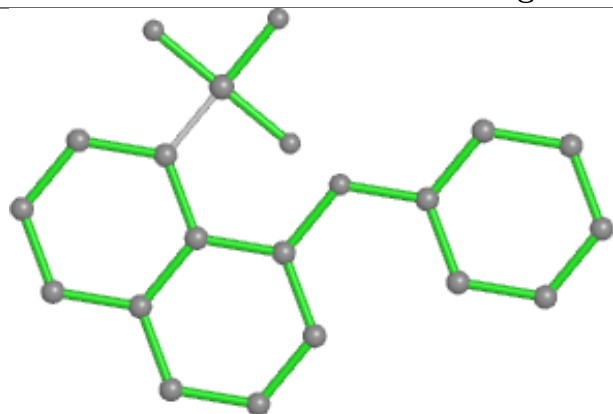




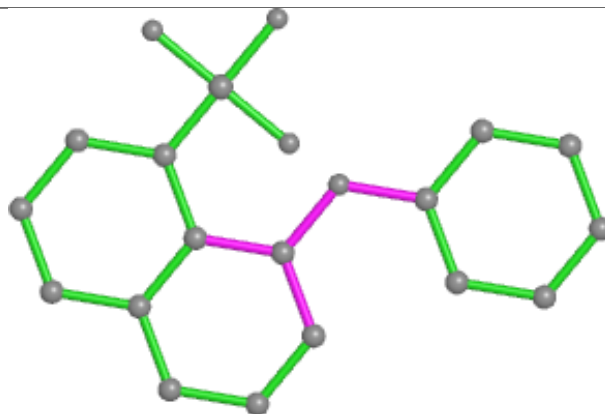




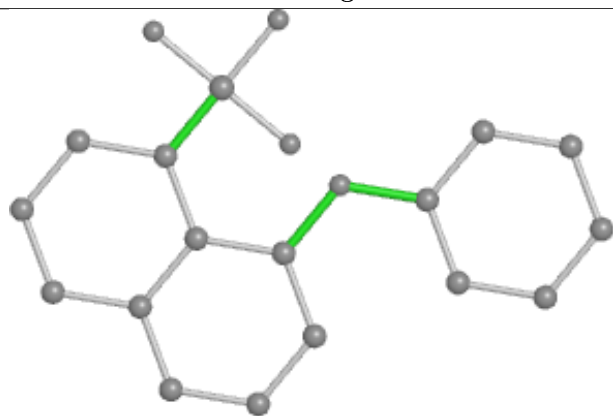
Ligand 2AN Z 203



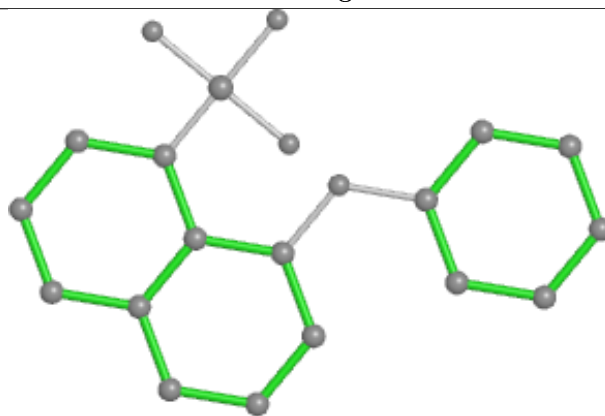
Bond lengths



Bond angles

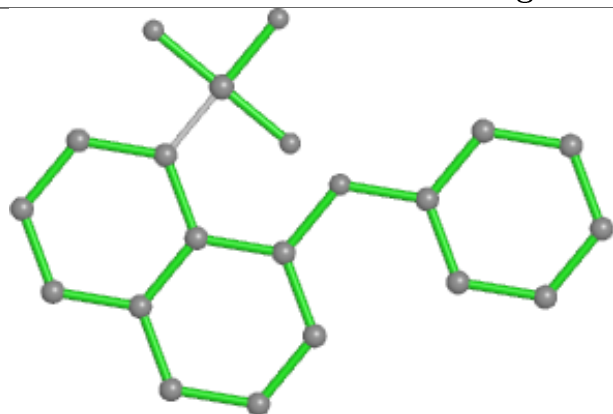


Torsions

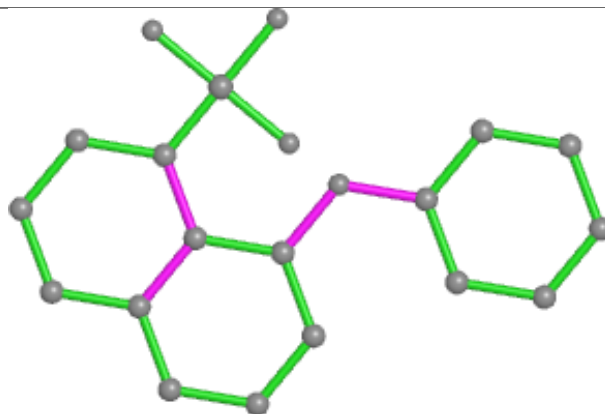


Rings

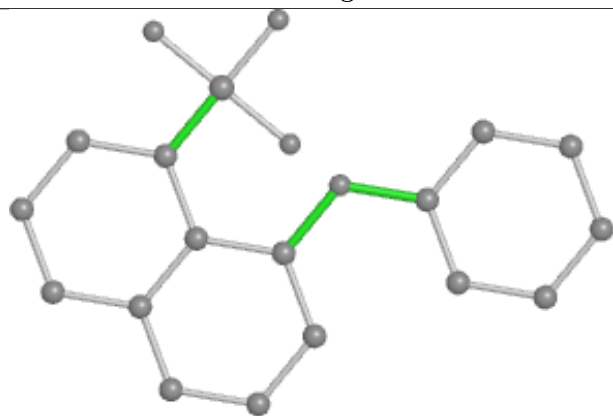
Ligand 2AN P 201



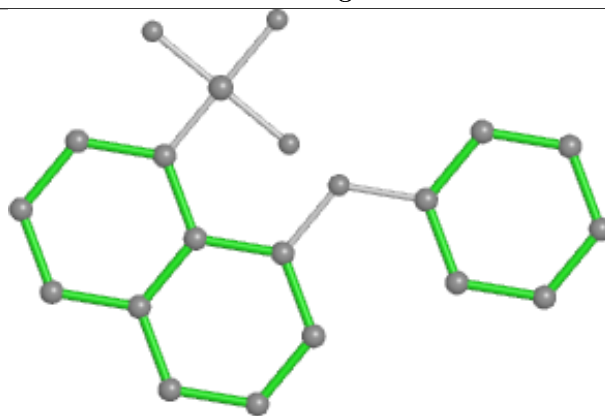
Bond lengths



Bond angles

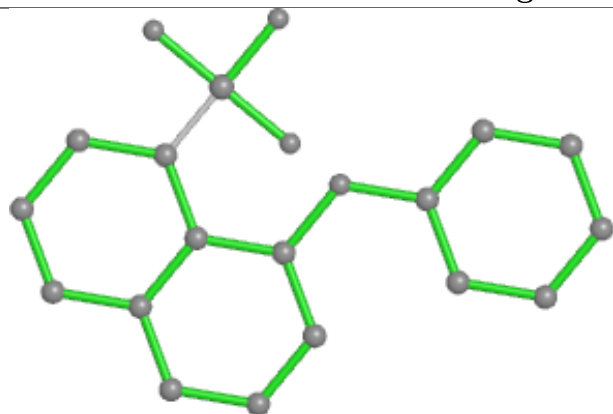


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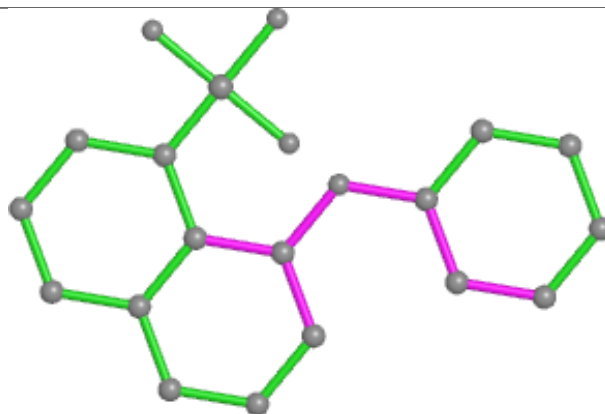


Rings

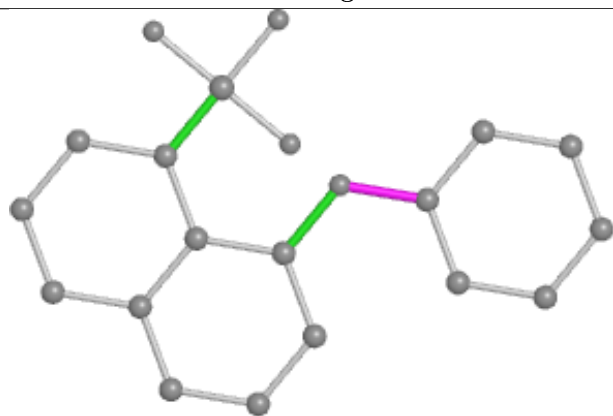
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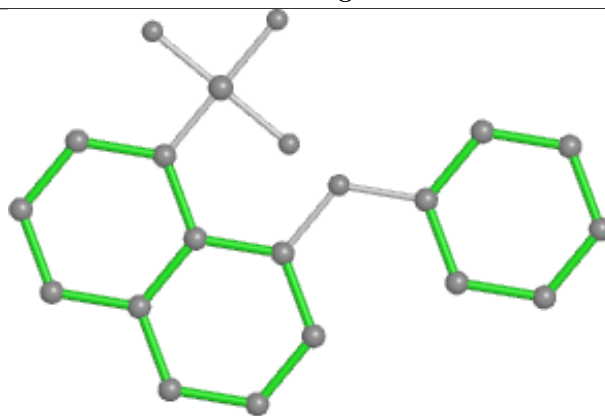
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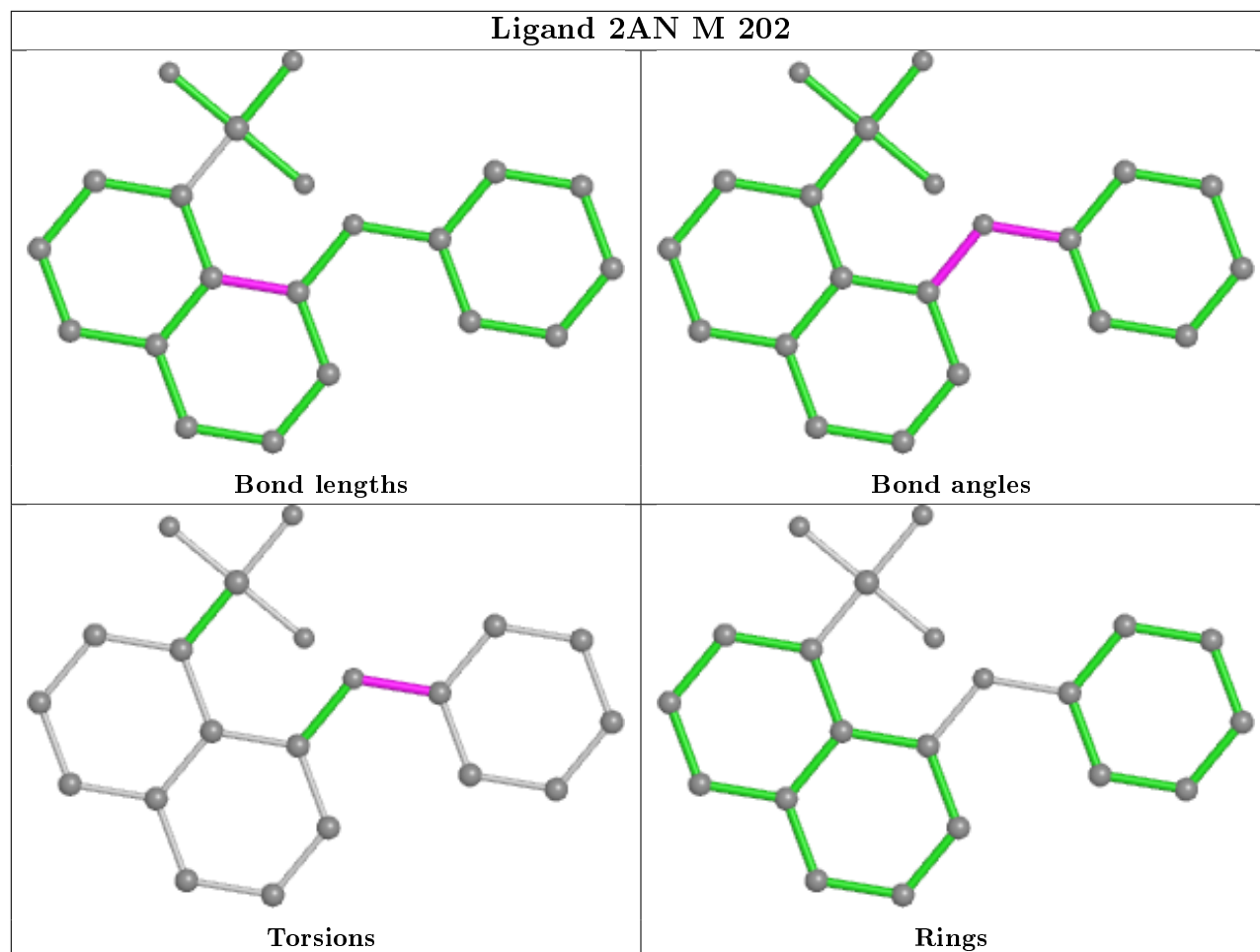
Bond angles



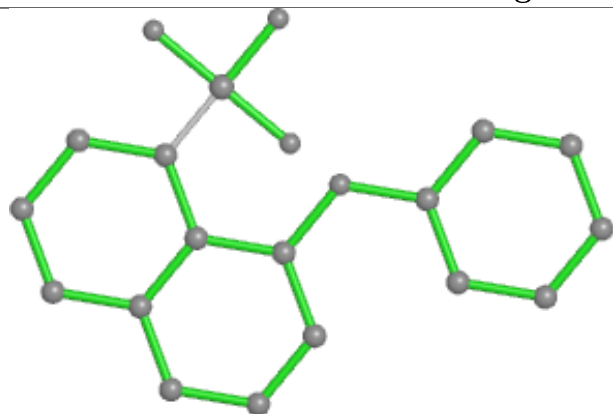
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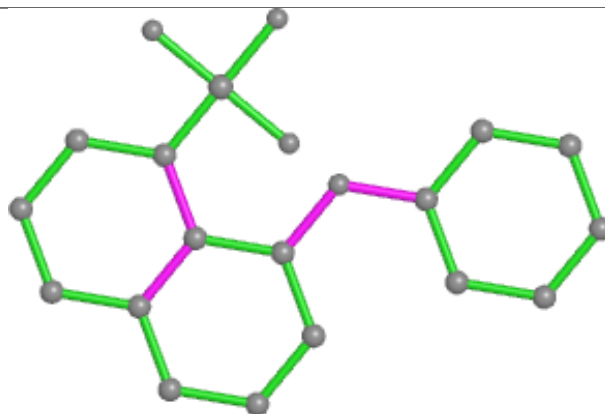
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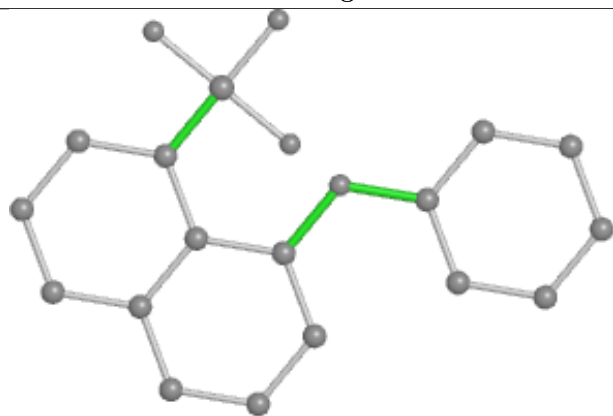
Ligand 2AN G 205



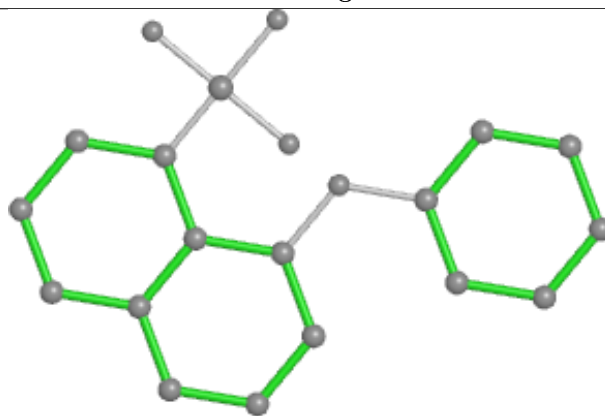
Bond lengths



Bond angles

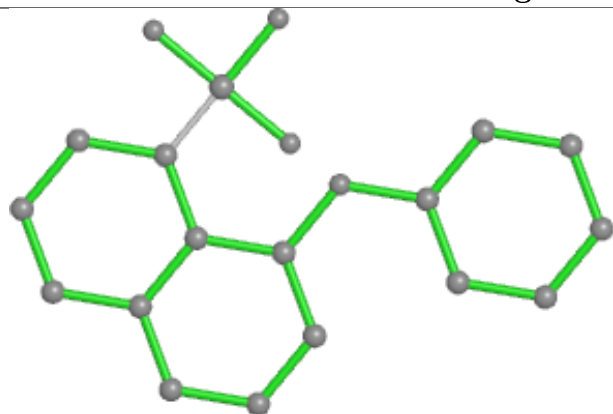


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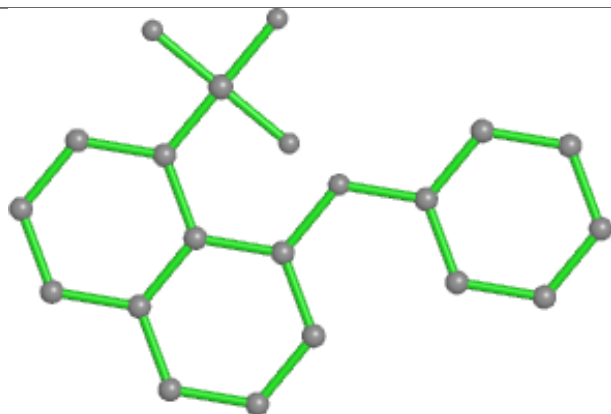


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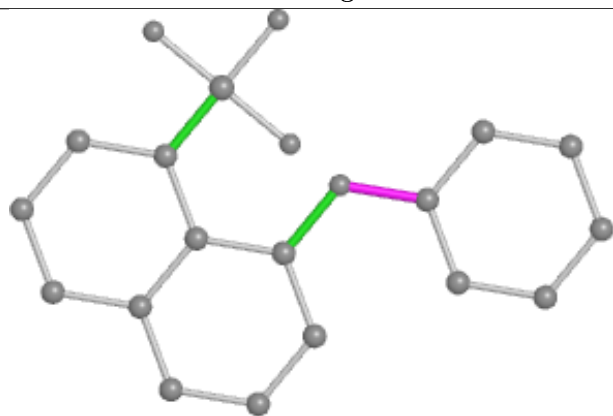
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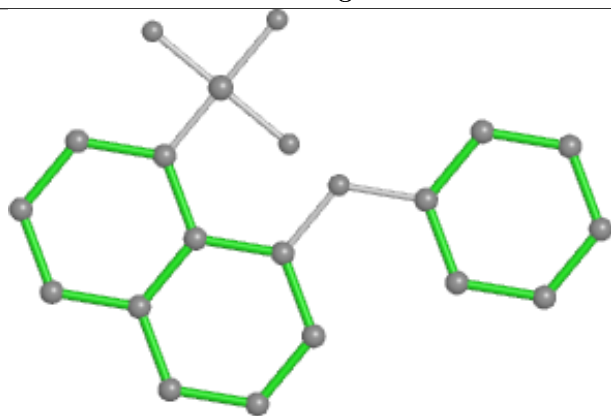
Bond lengths



Bond angles

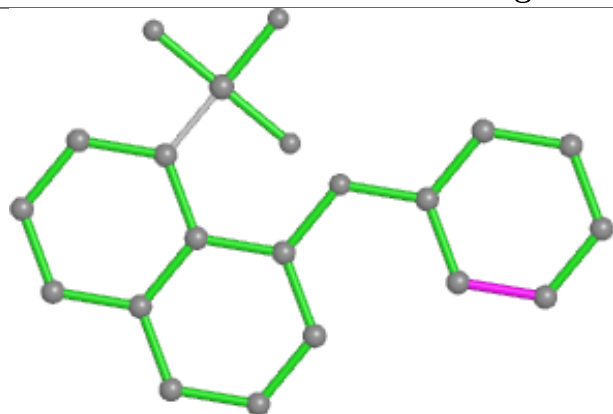


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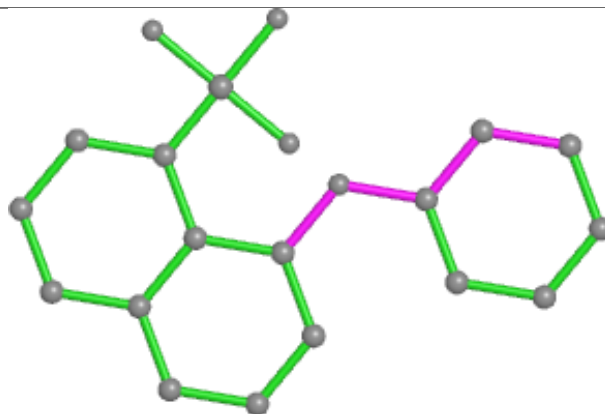


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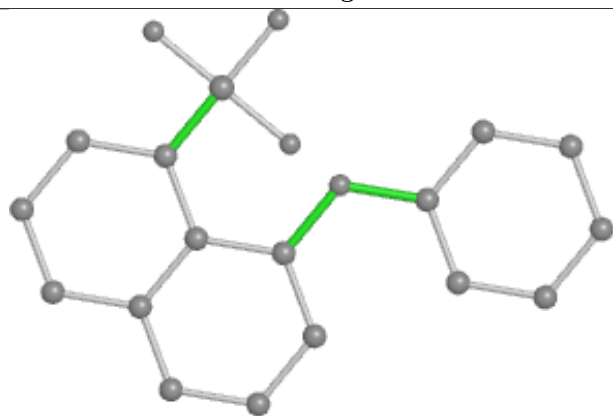
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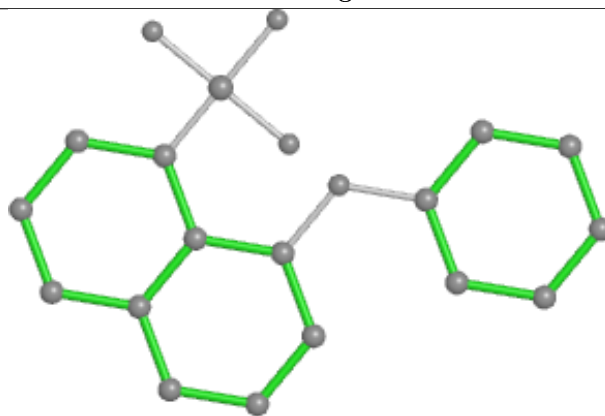
Bond lengths



Bond angles

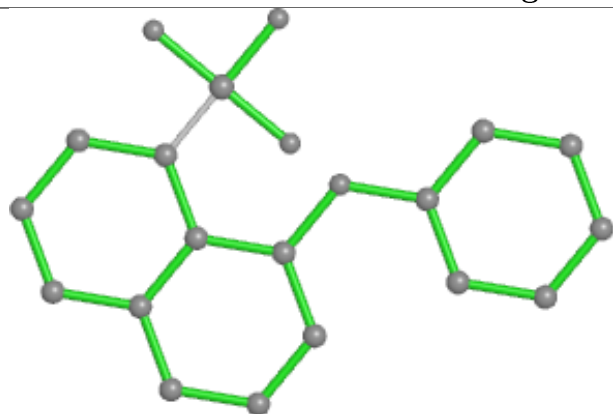


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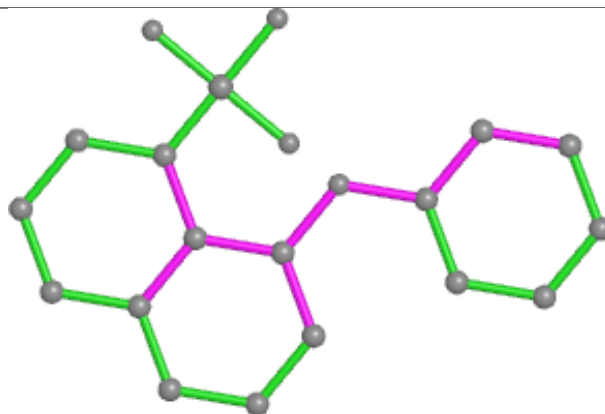


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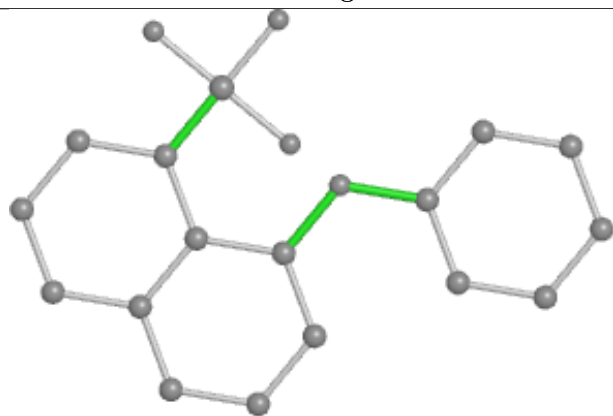
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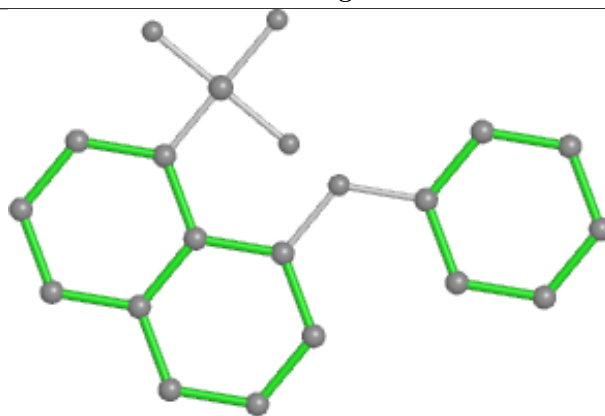
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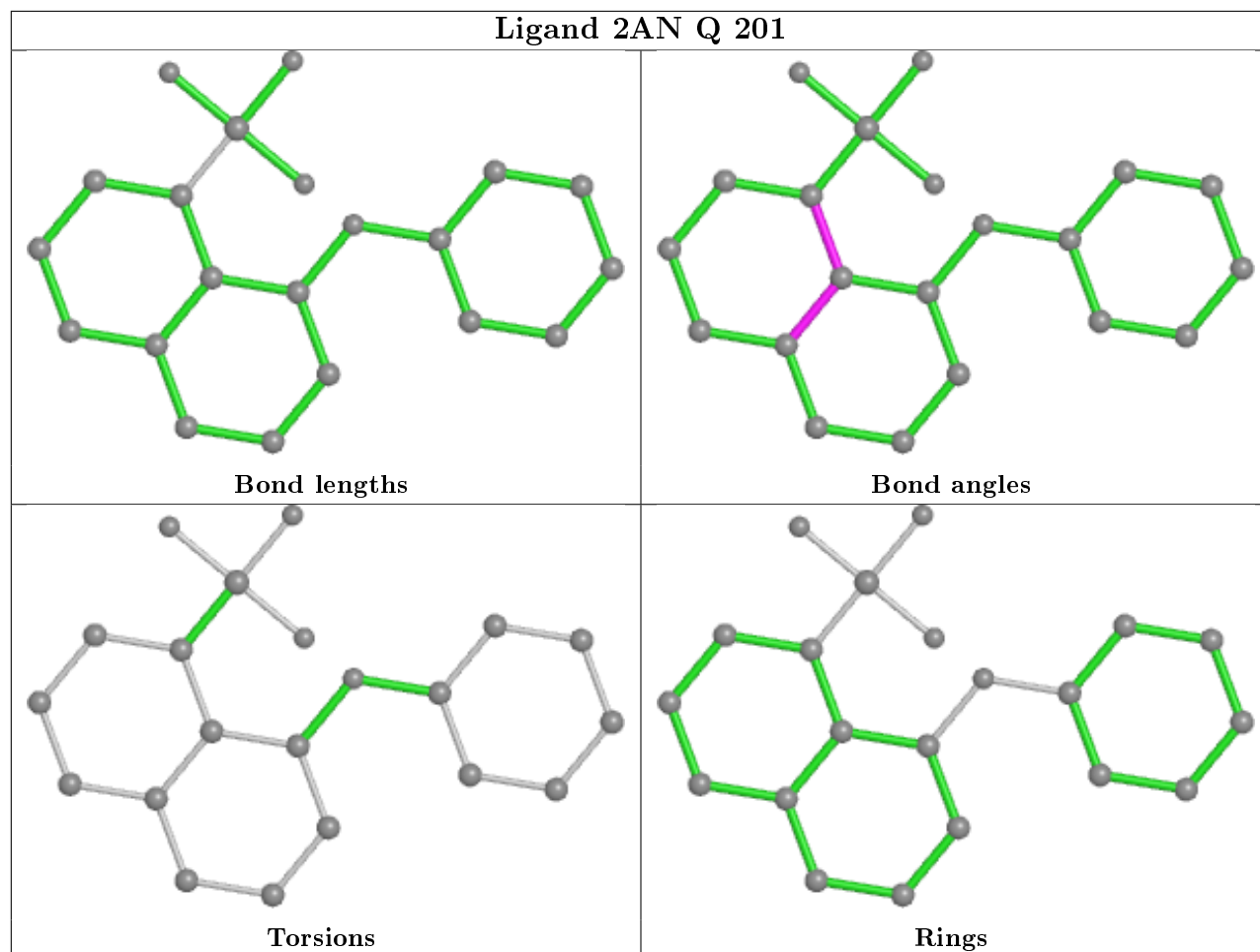
Bond angles



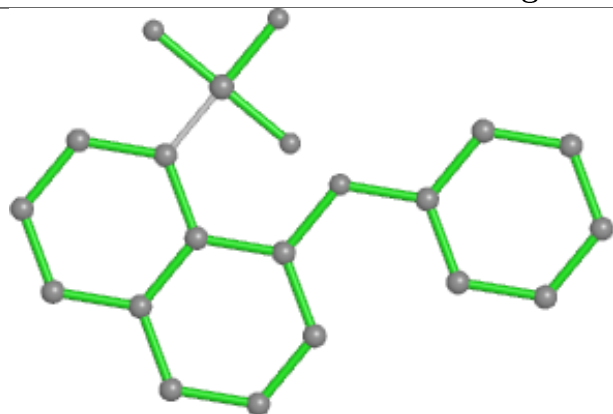
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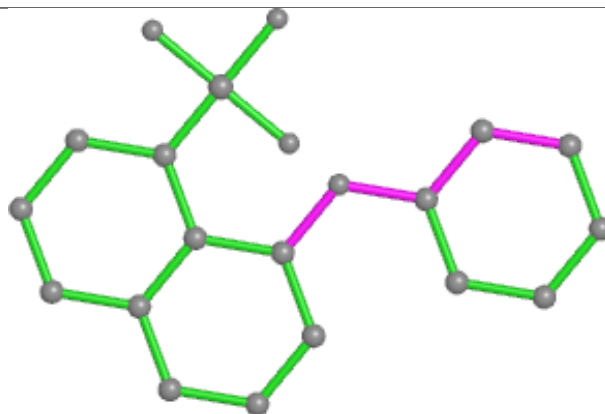
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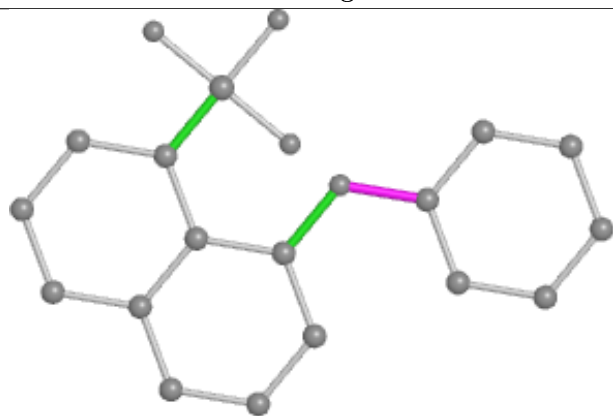
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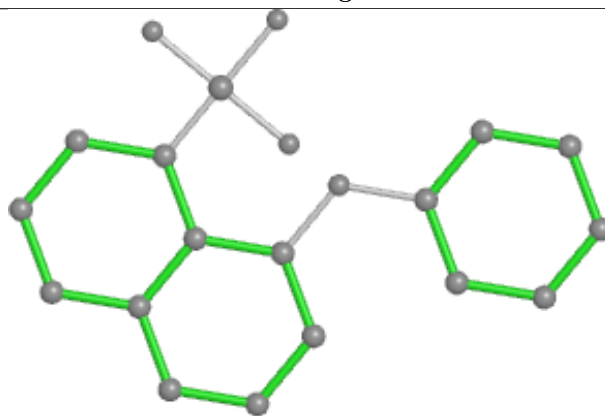
Bond lengths



Bond angles

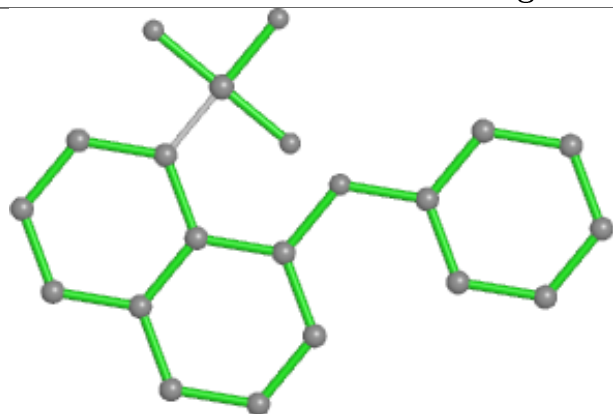


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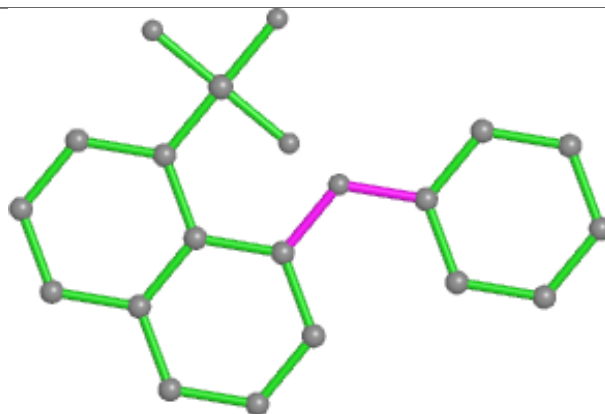


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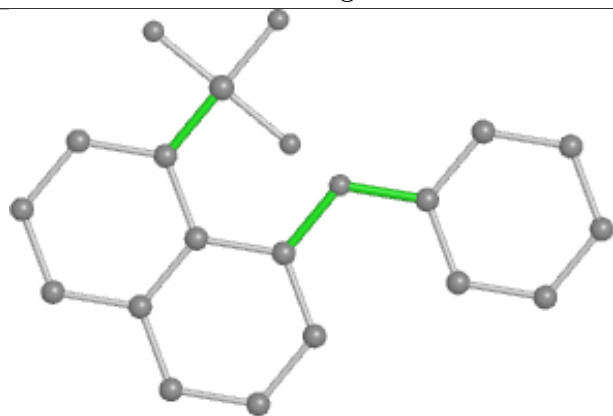
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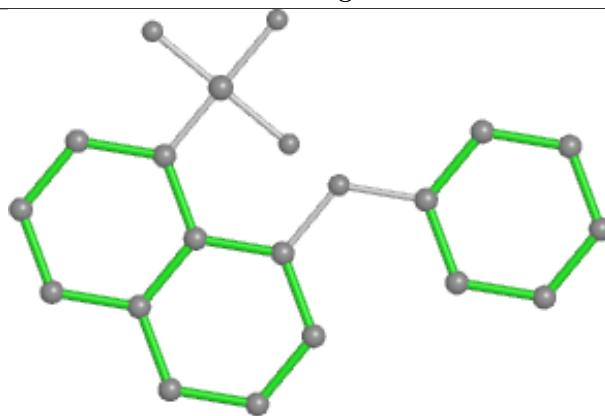
Bond lengths



Bond angles

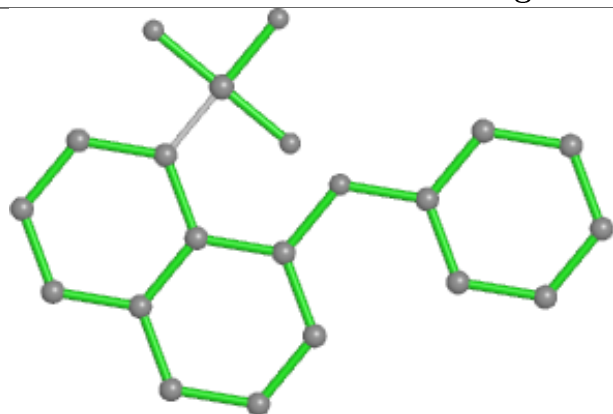


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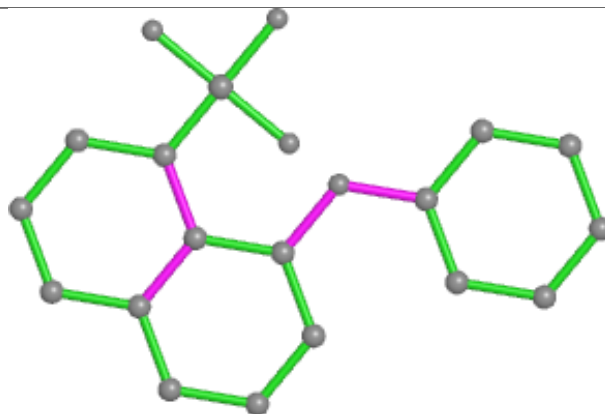


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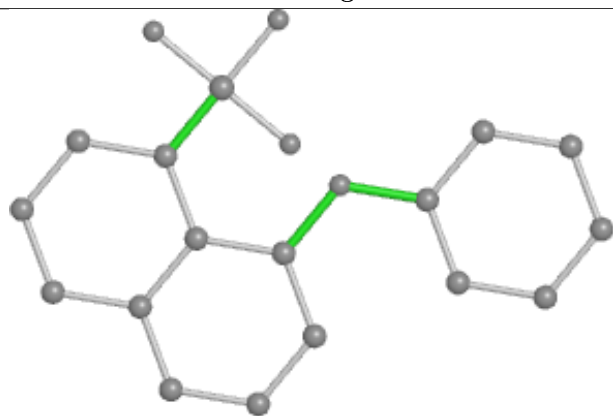
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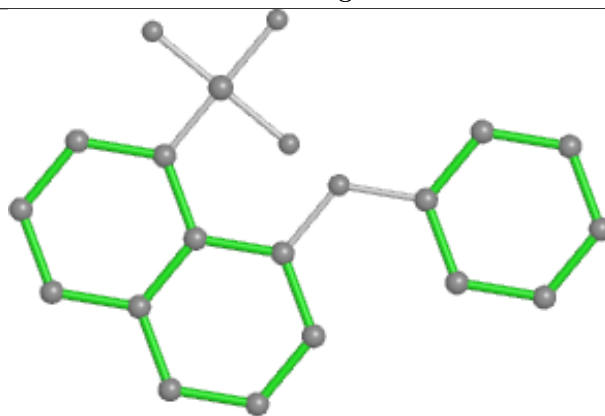
Bond lengths



Bond angles

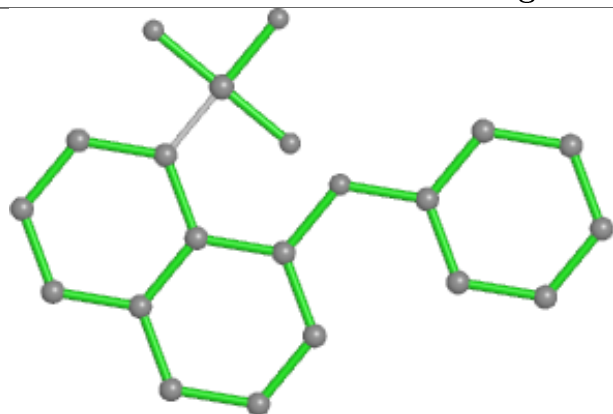


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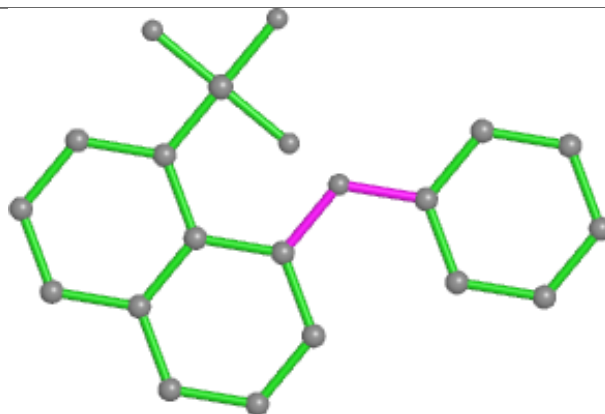


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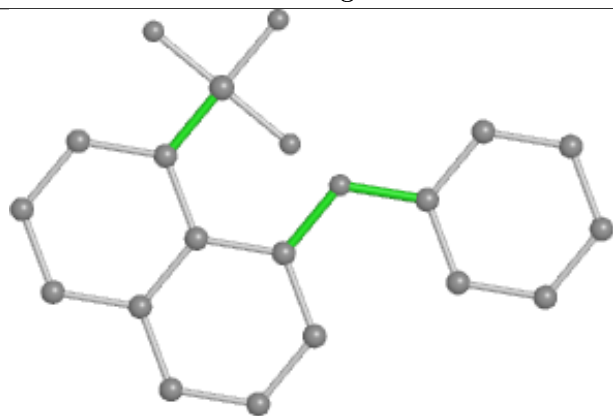
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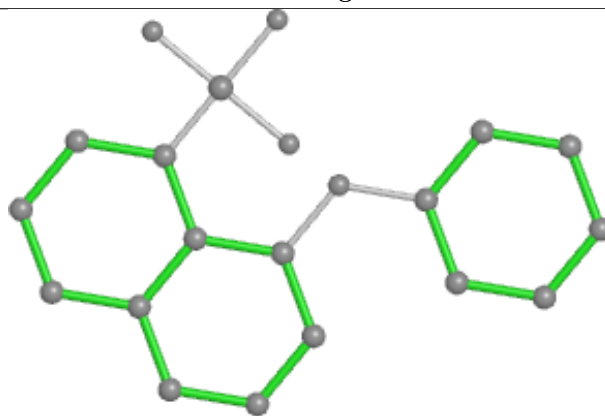
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Bond angles

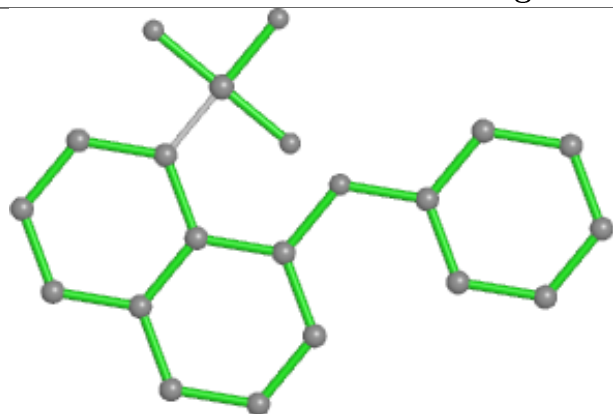


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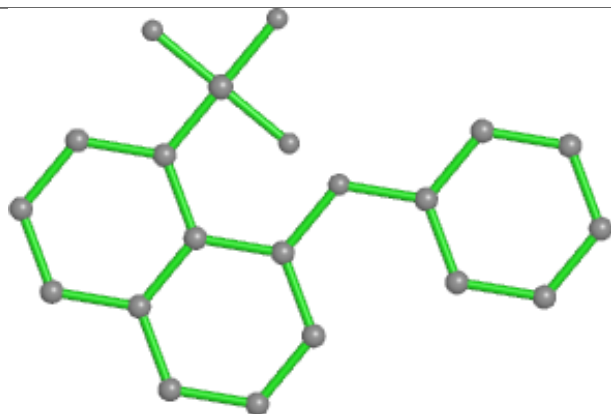


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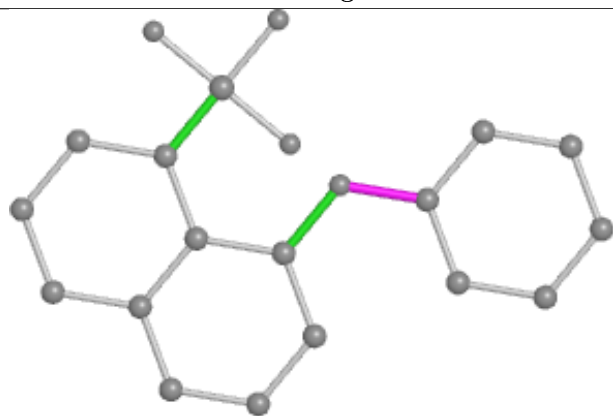
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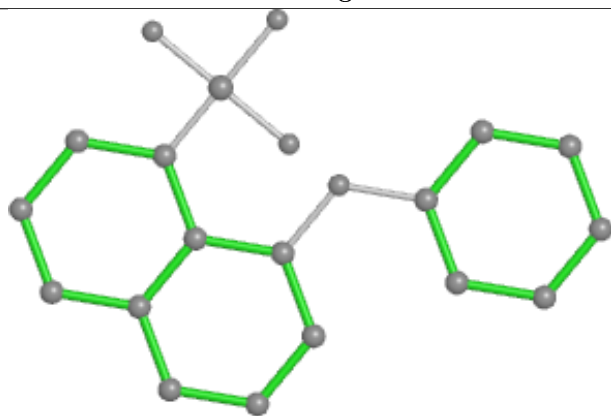
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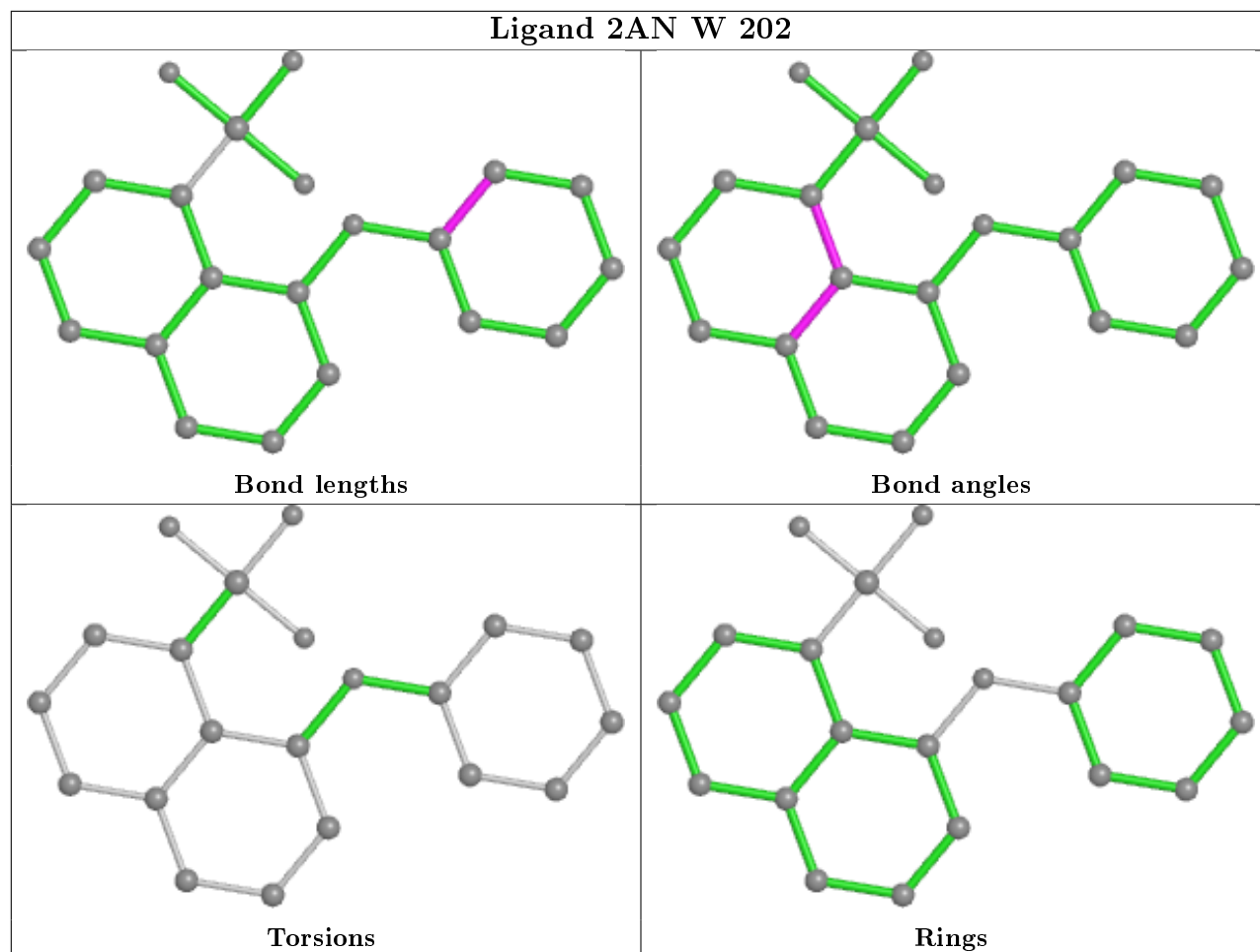
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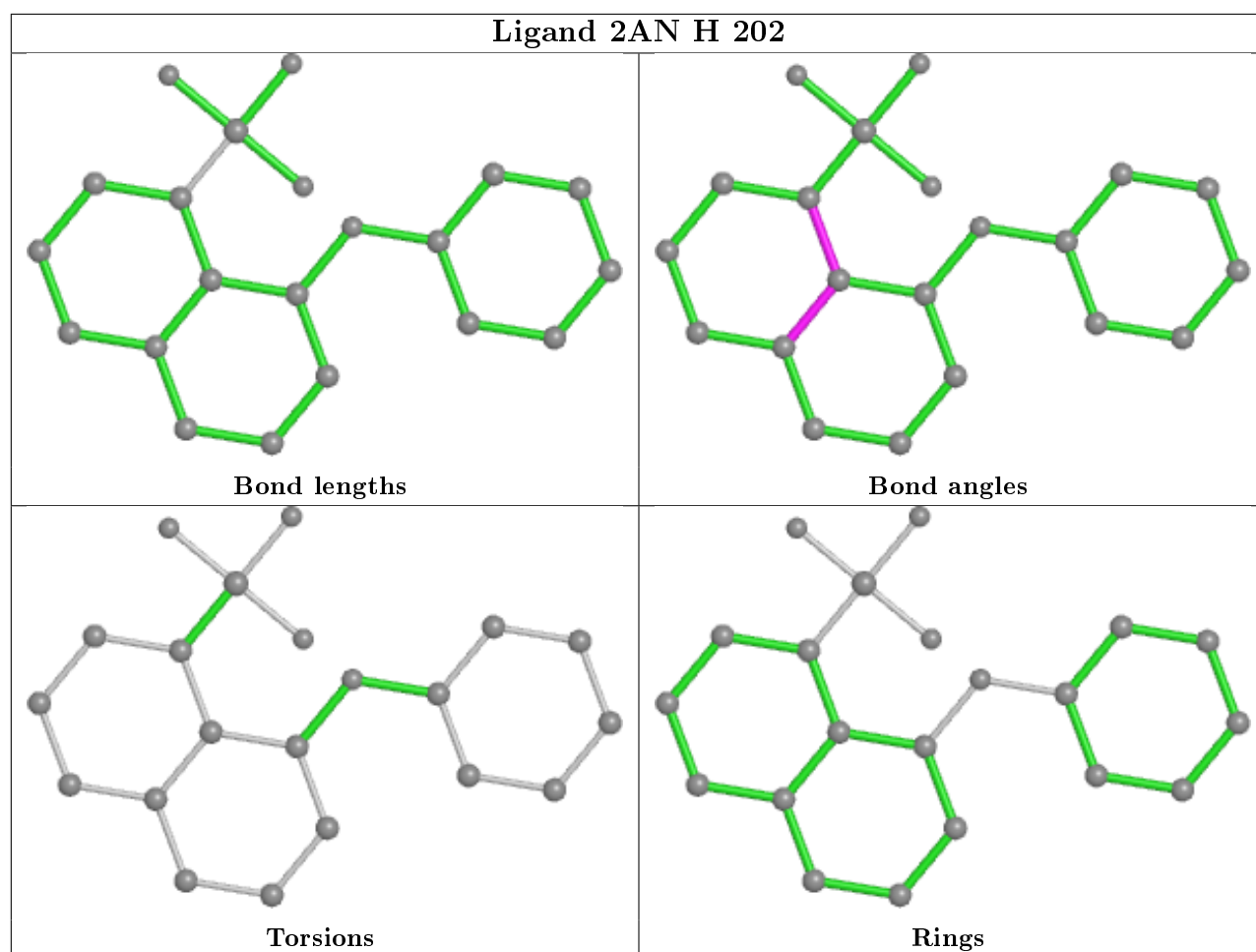


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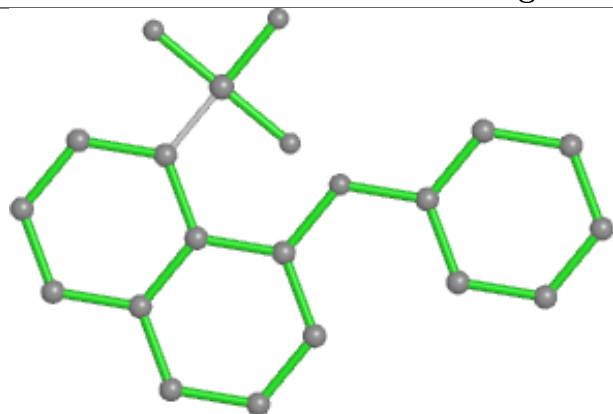


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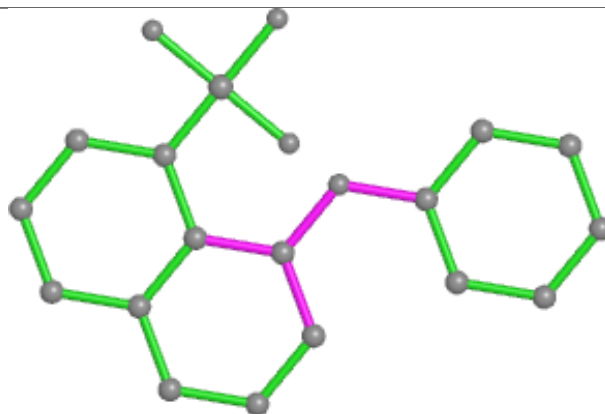




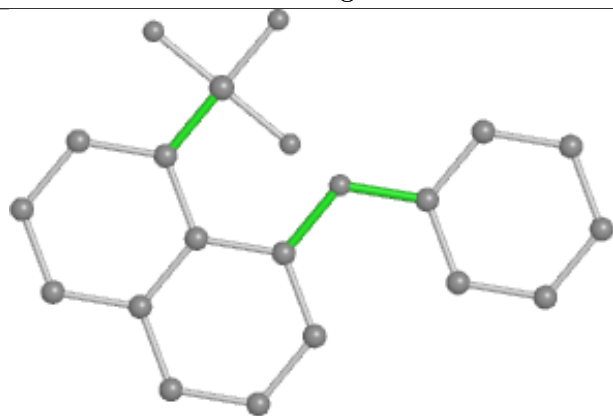
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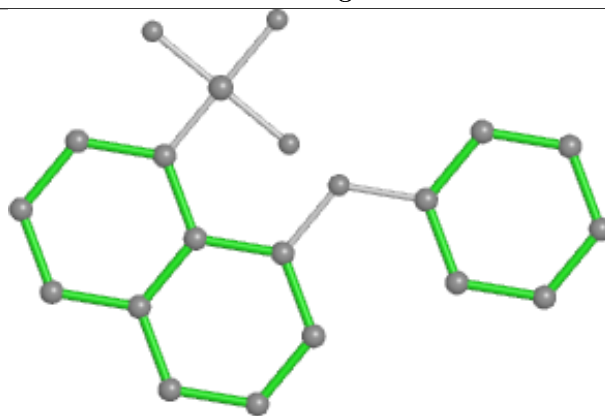
Bond lengths



Bond angles

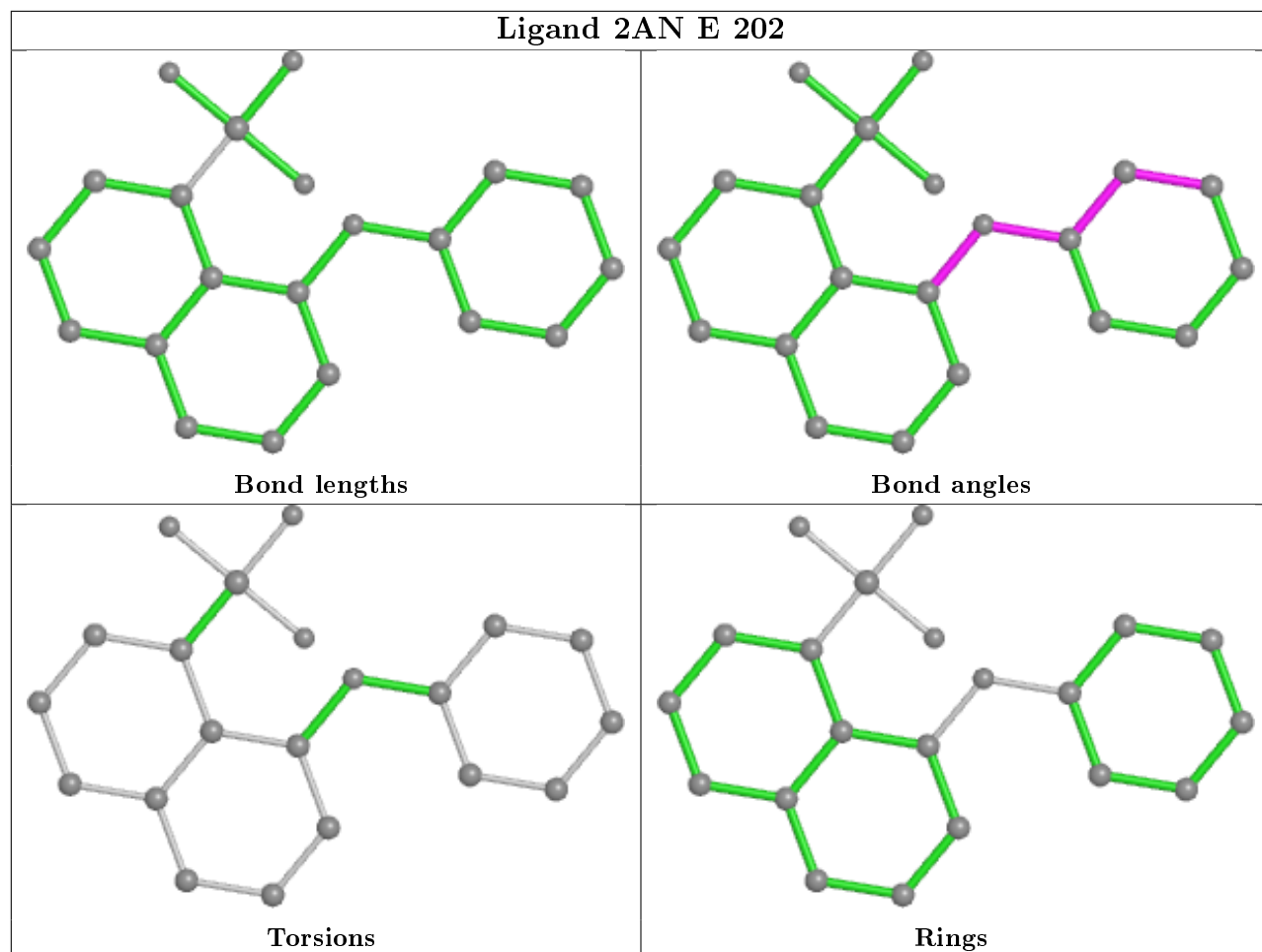


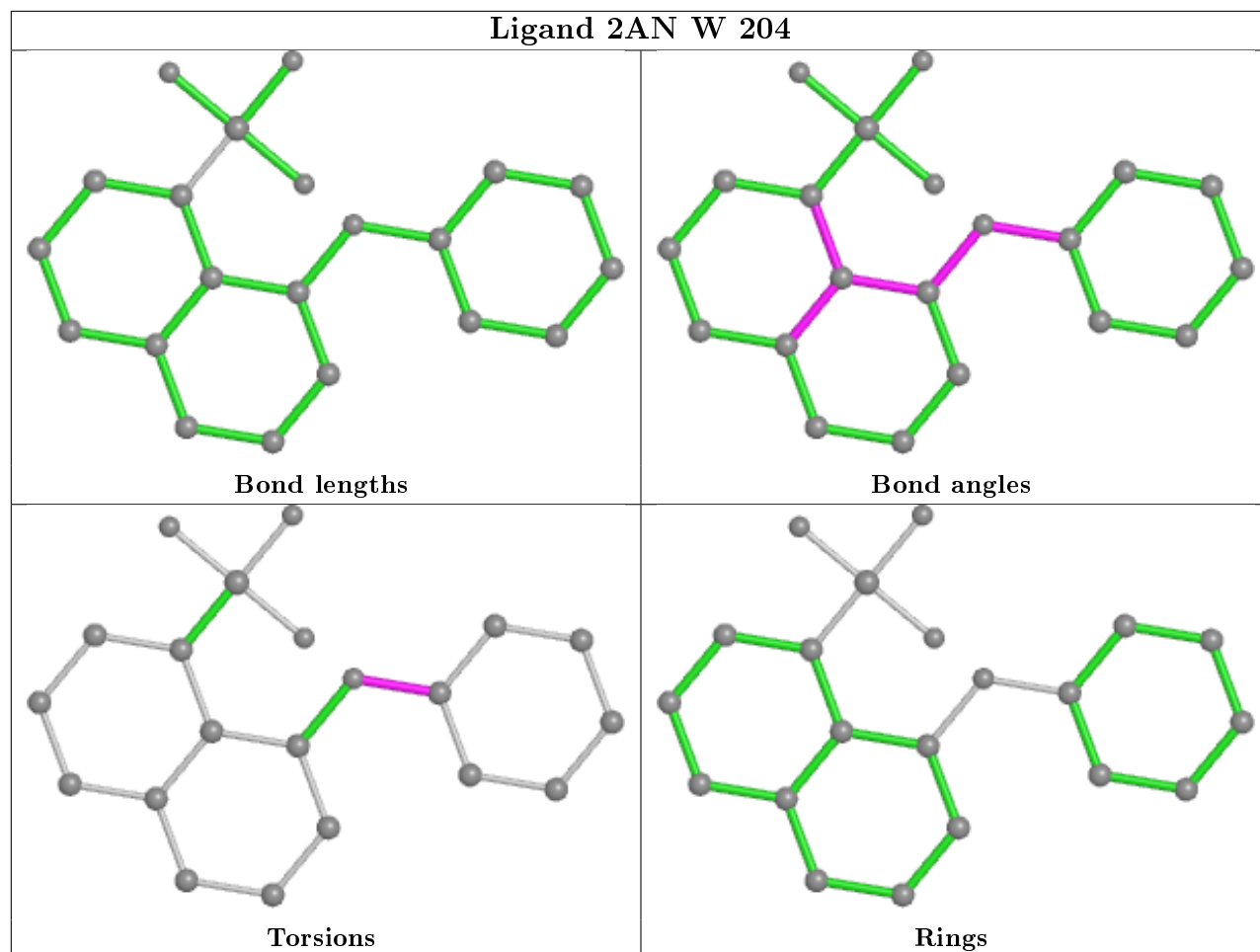
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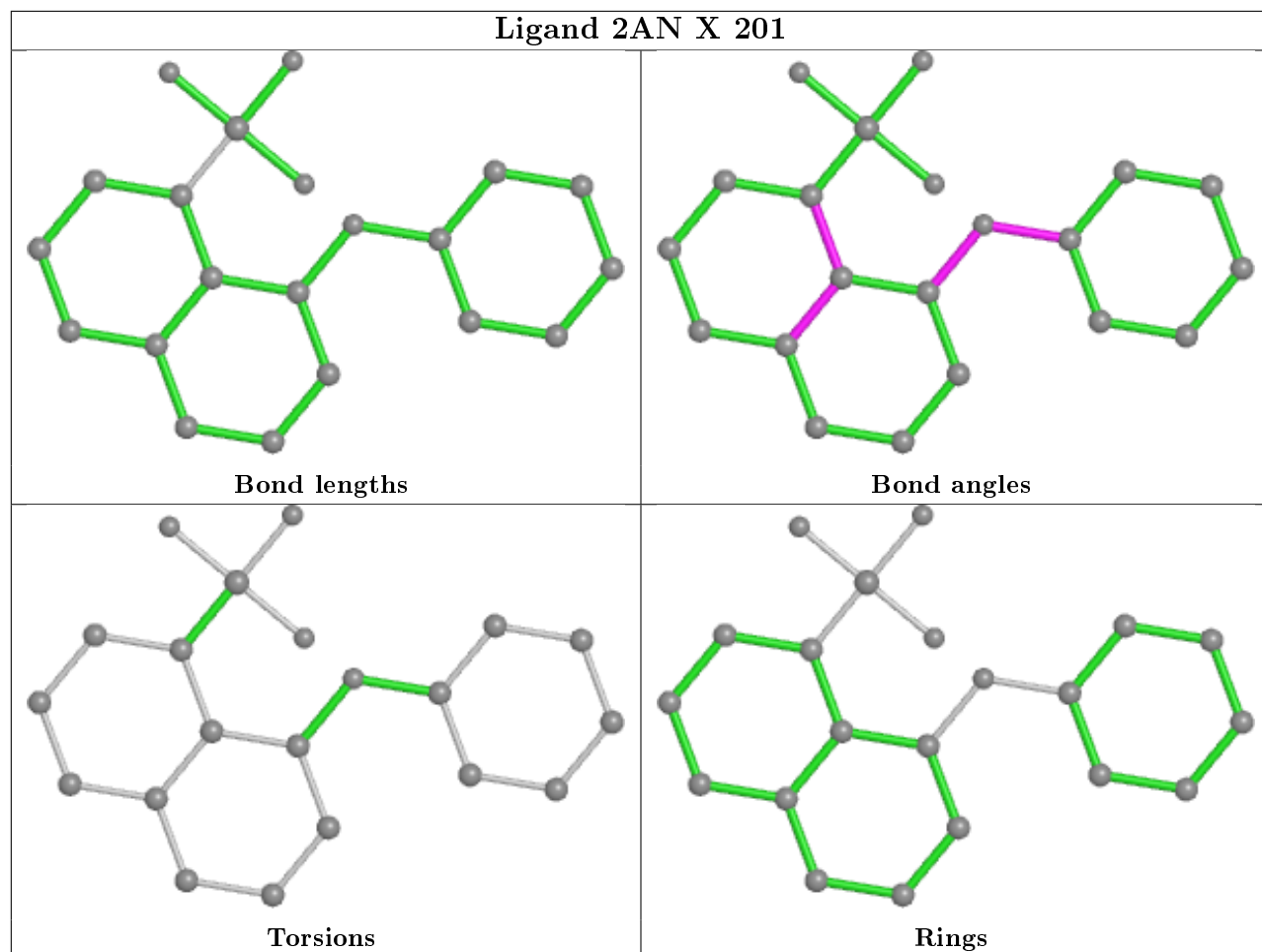
Rings

Ligand 2AN E 202

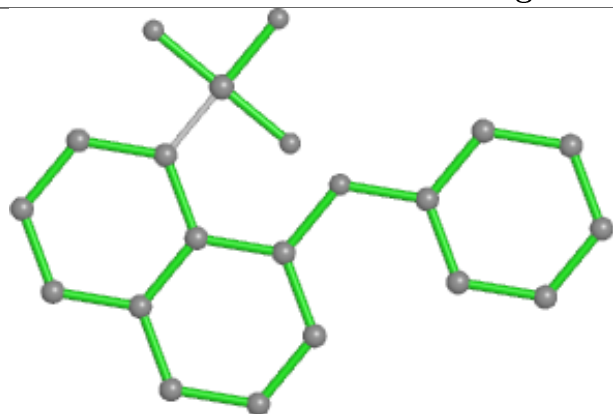




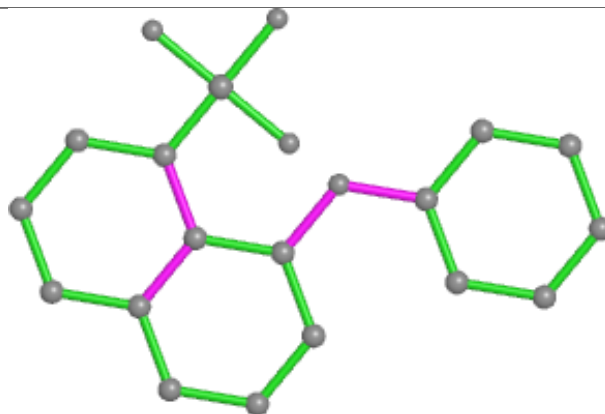
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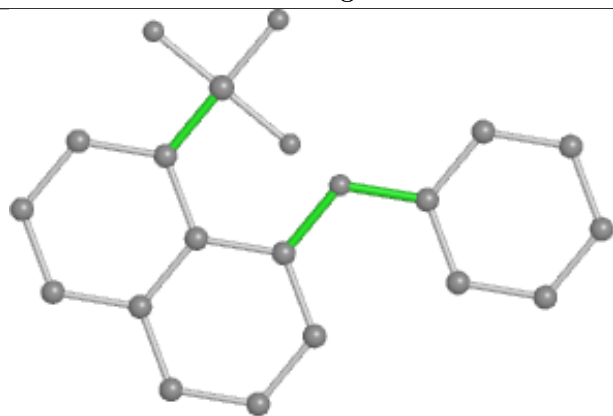
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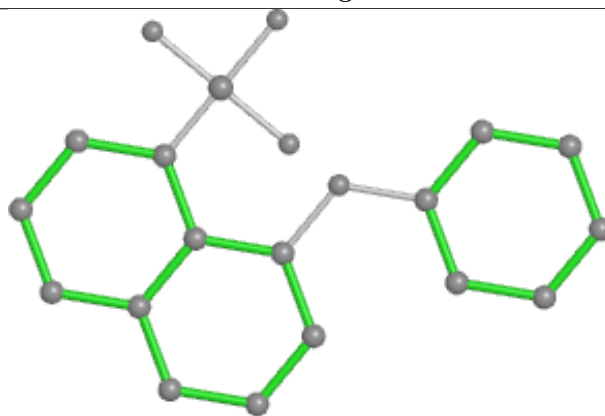
Bond lengths



Bond angles

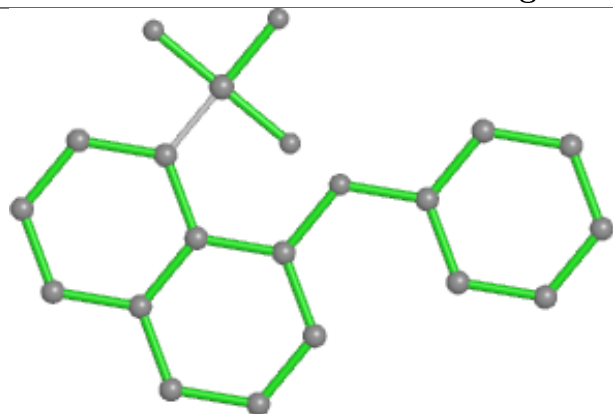


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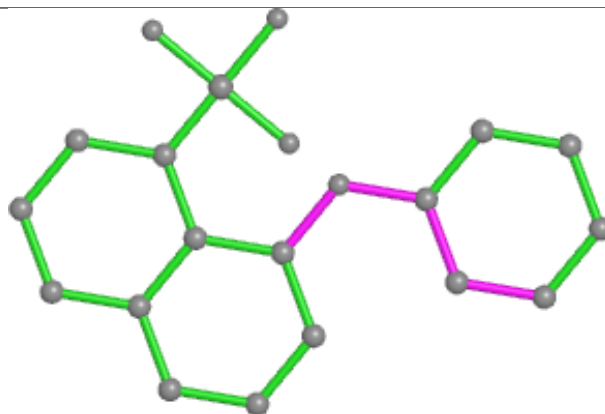


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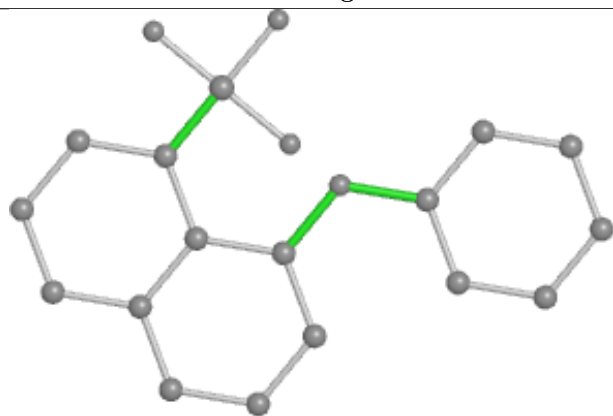
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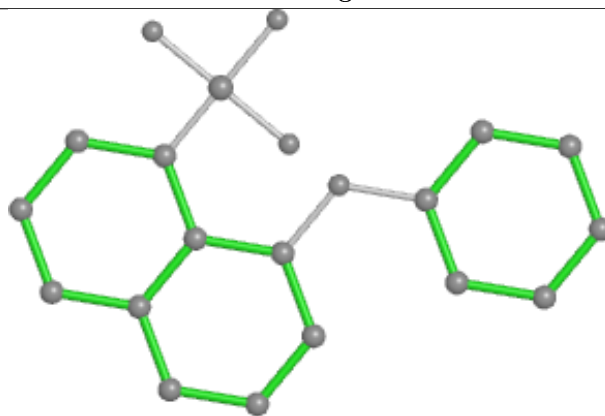
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Bond angles

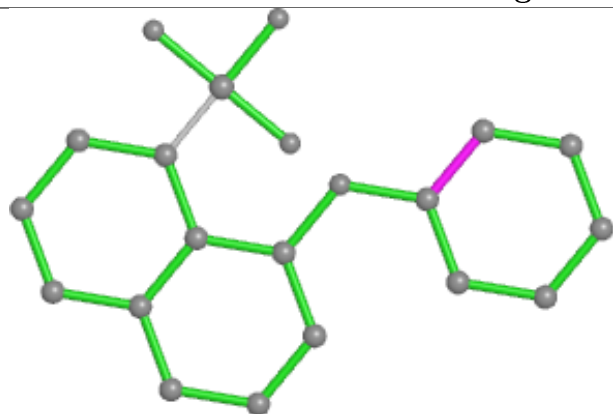


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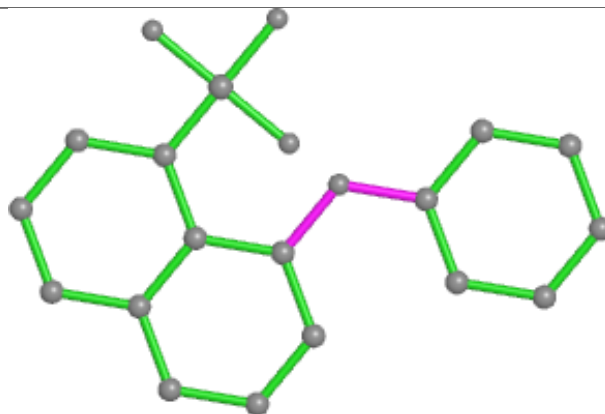


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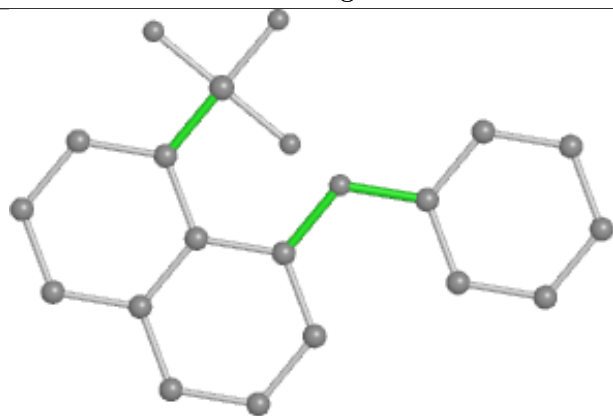
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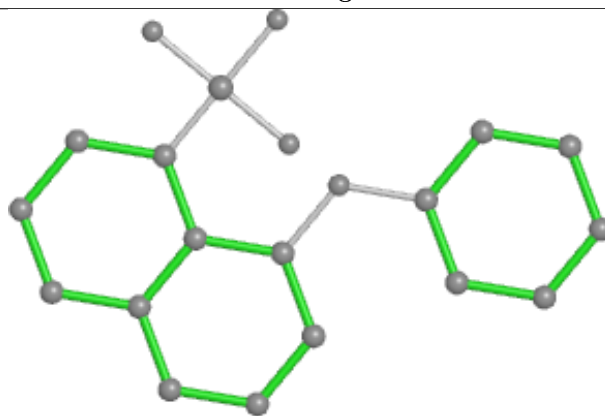
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Bond angles

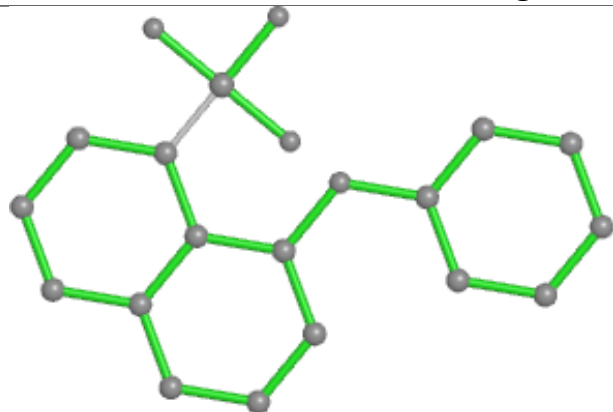


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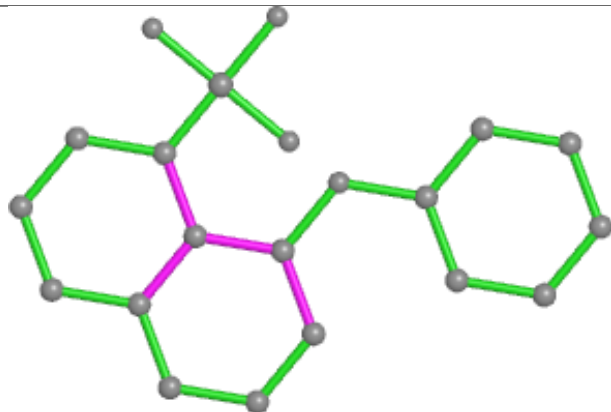


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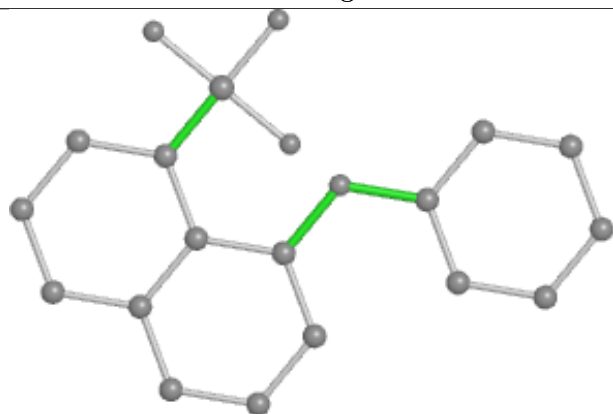
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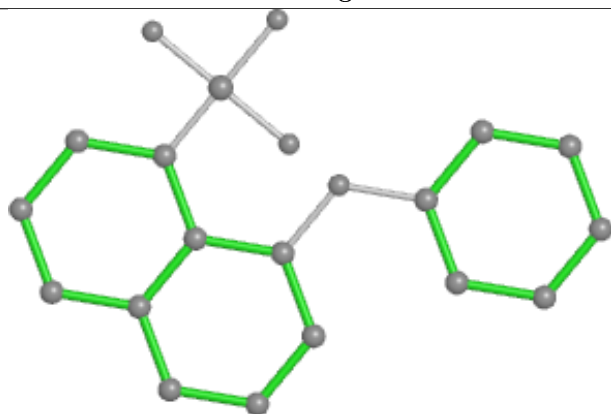
Bond lengths



Bond angles

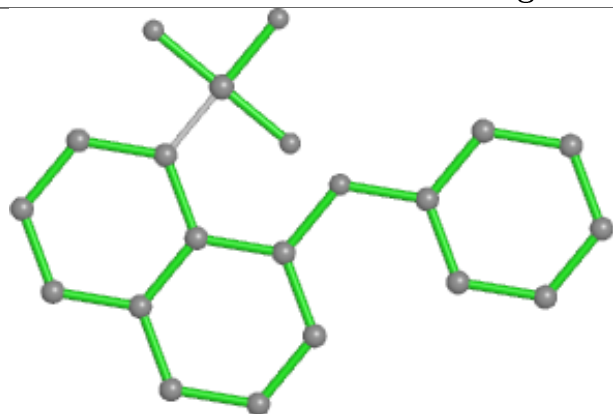


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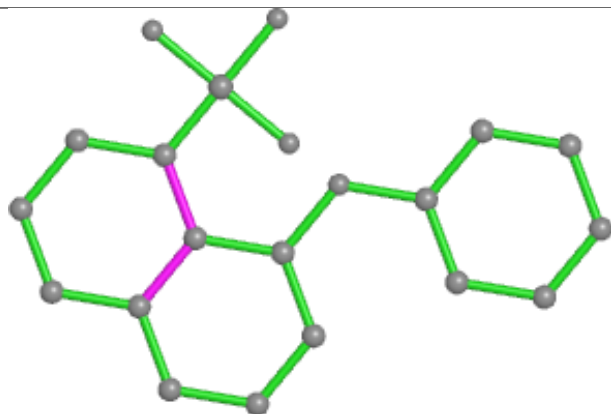


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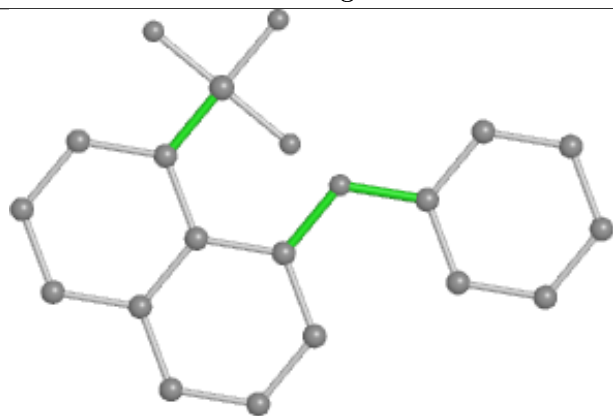
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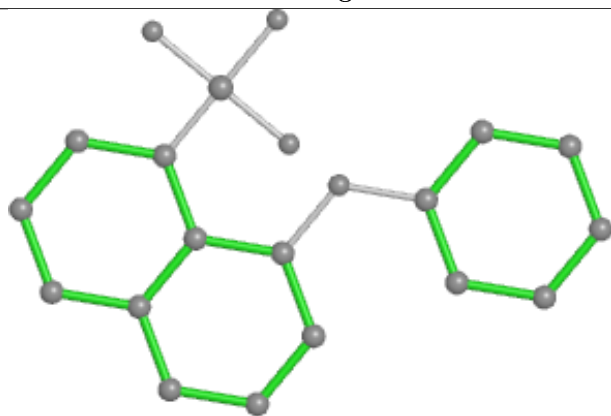
Bond lengths



Bond angles

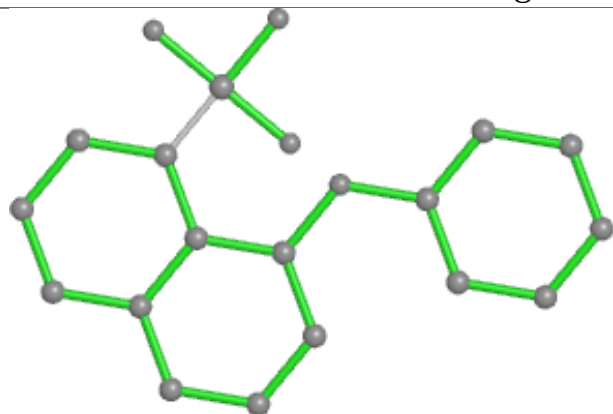


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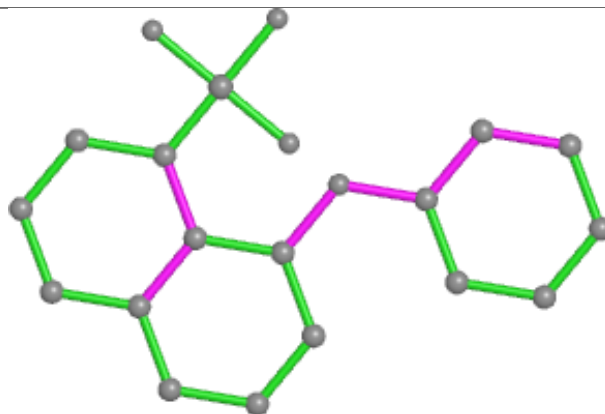


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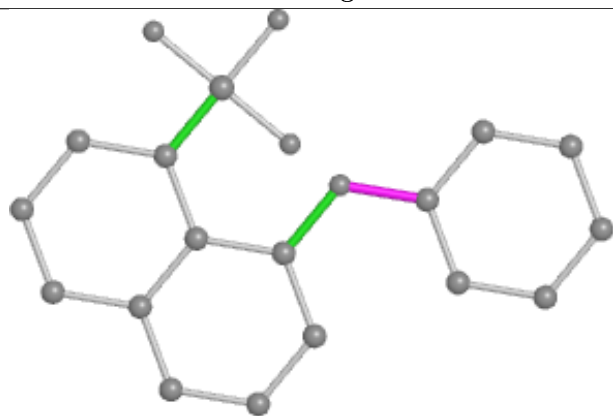
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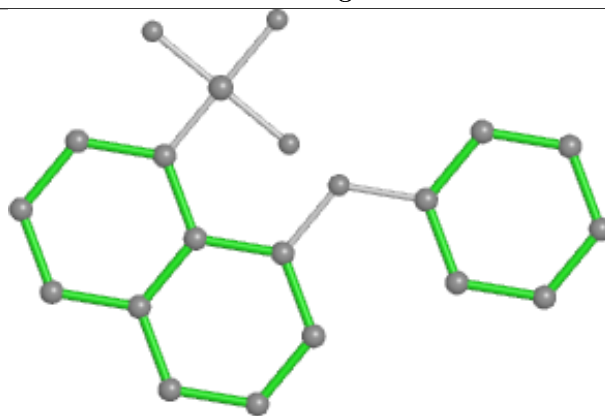
Bond lengths



Bond angles

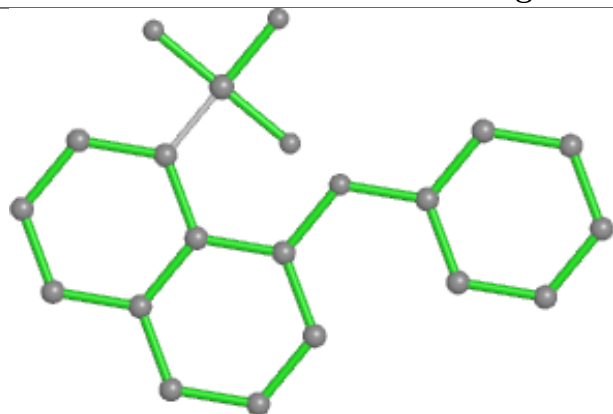


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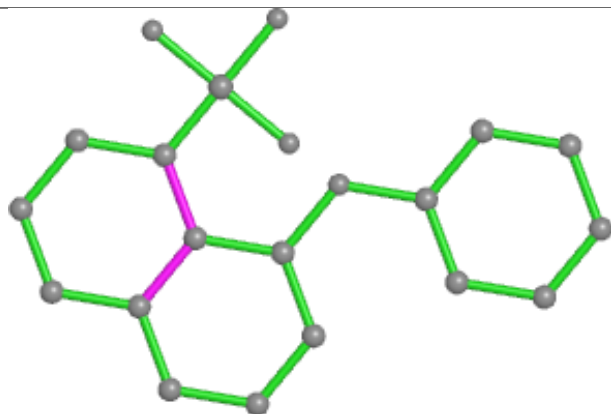


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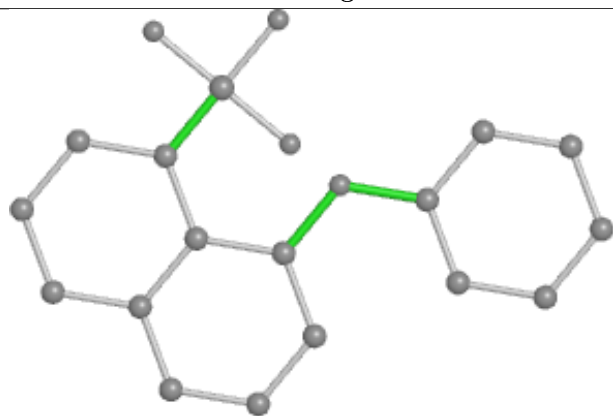
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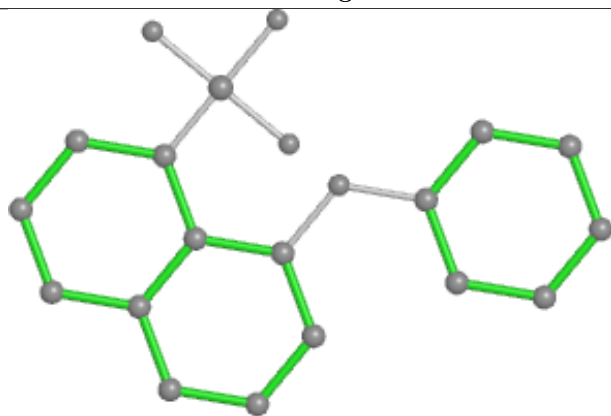
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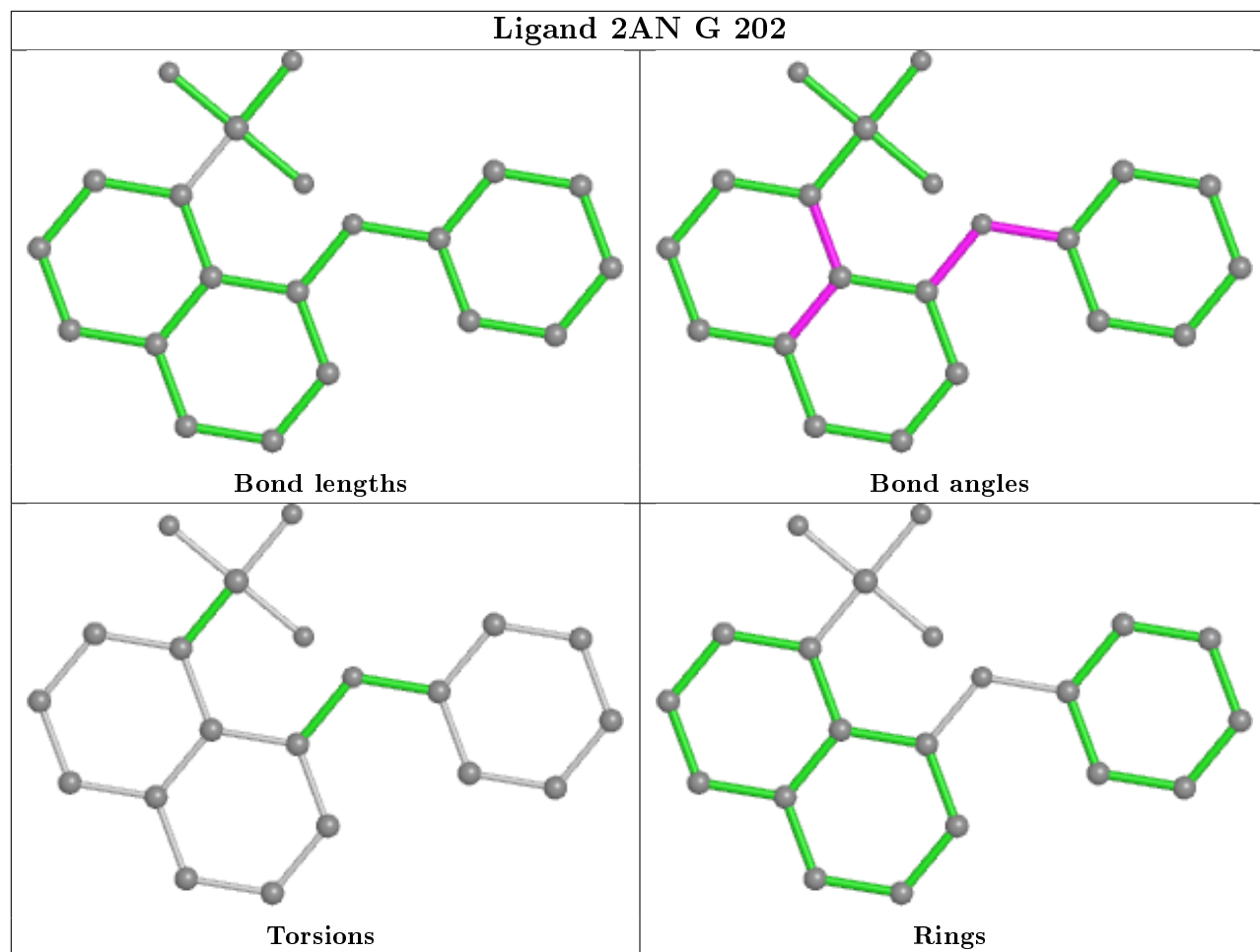
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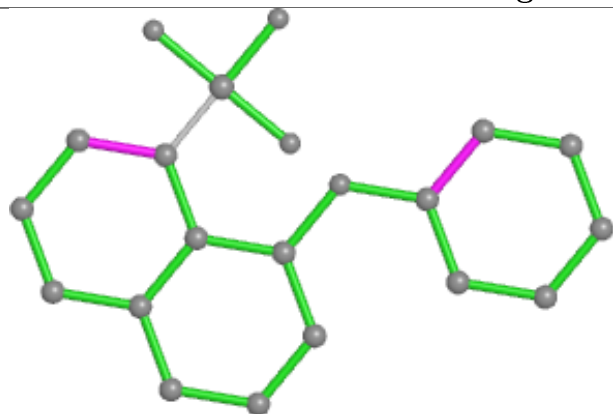
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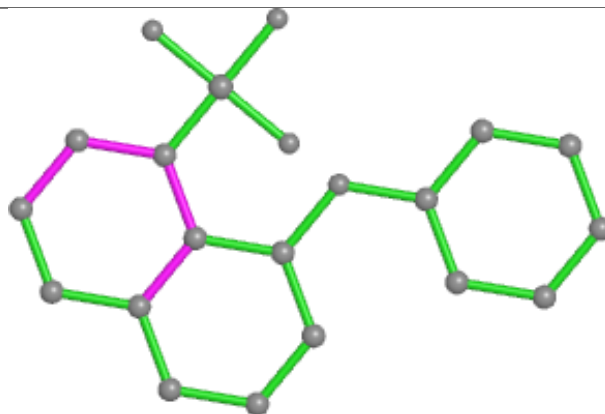
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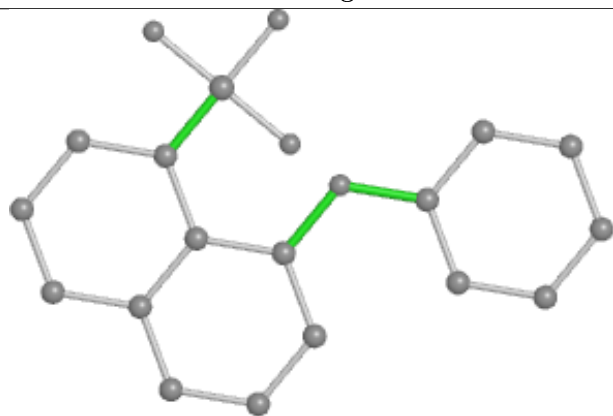
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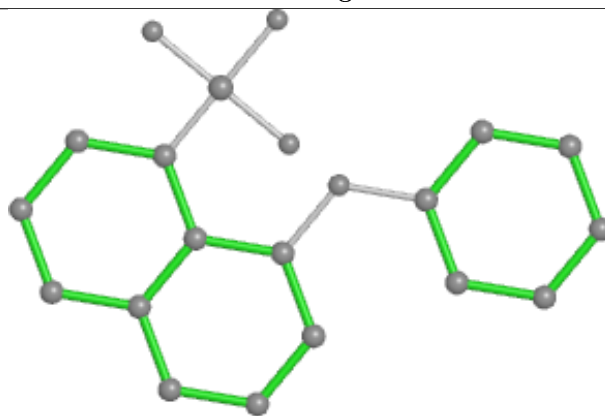
Bond lengths



Bond angles

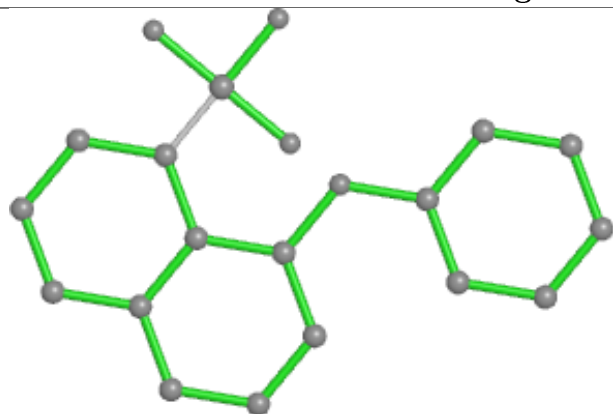


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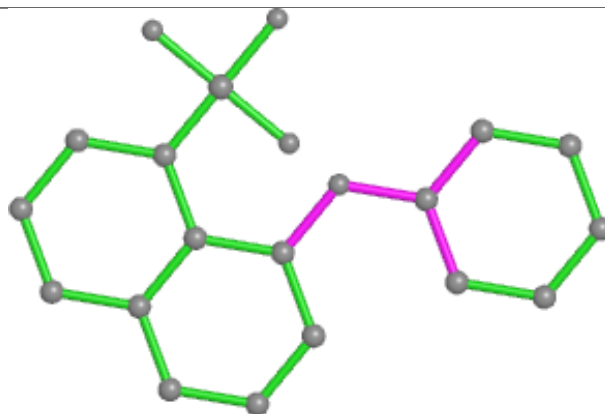


Rings

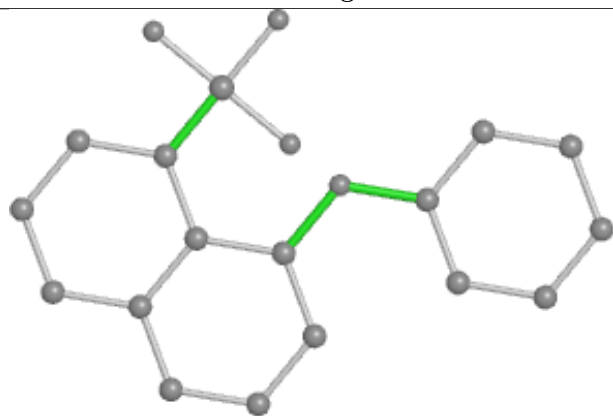
Ligand 2AN R 203



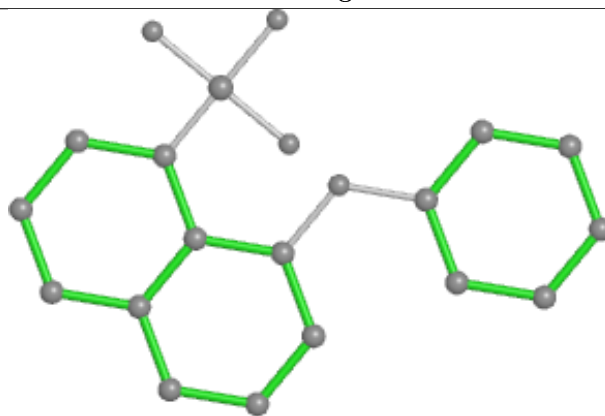
Bond lengths



Bond angles

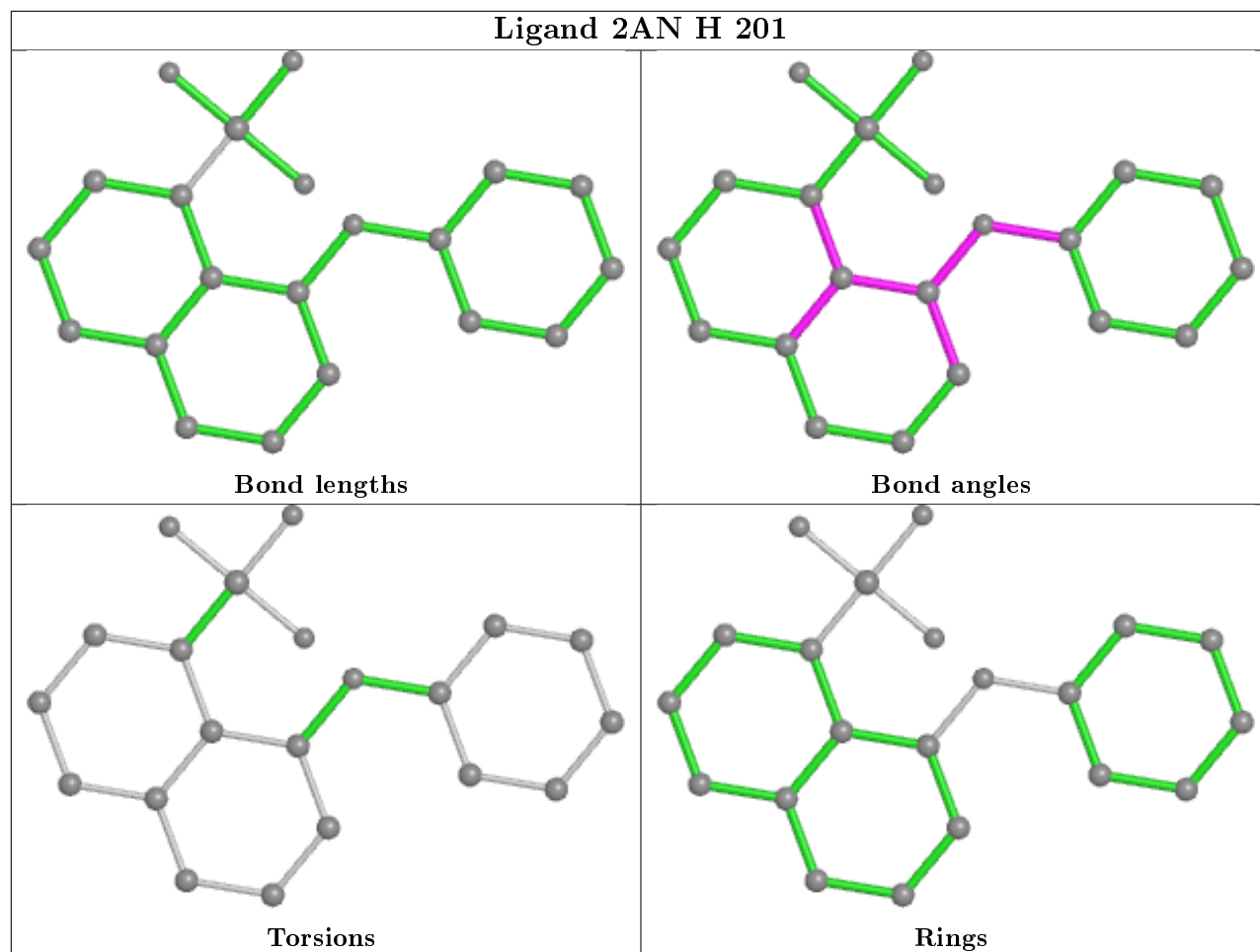


Torsions

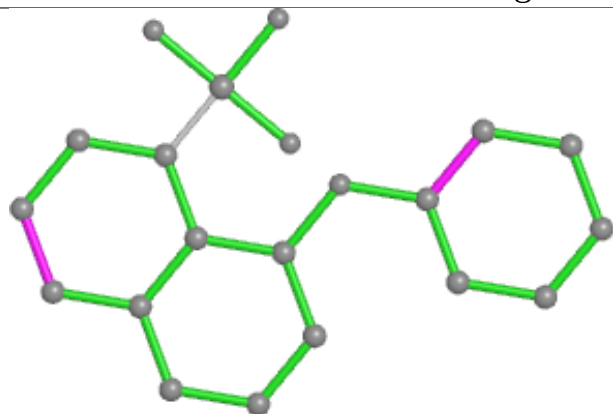


Rings

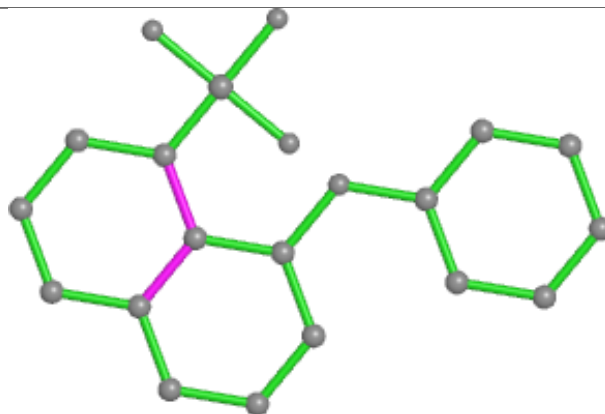
Ligand 2AN H 201



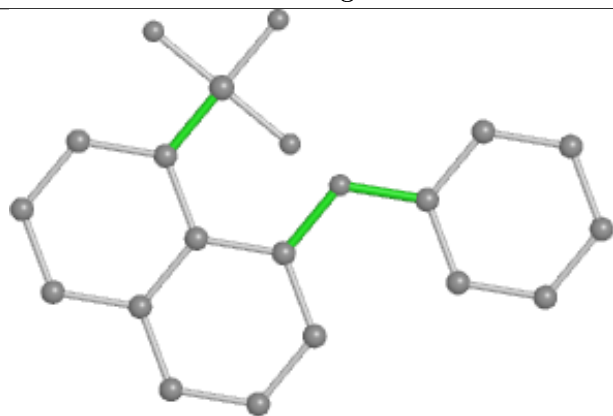
Ligand 2AN Y 201



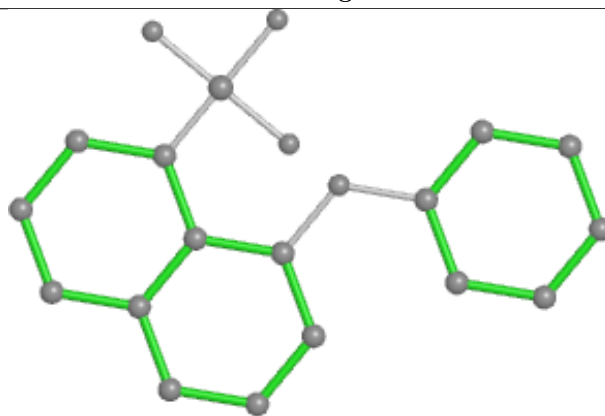
Bond lengths



Bond angles

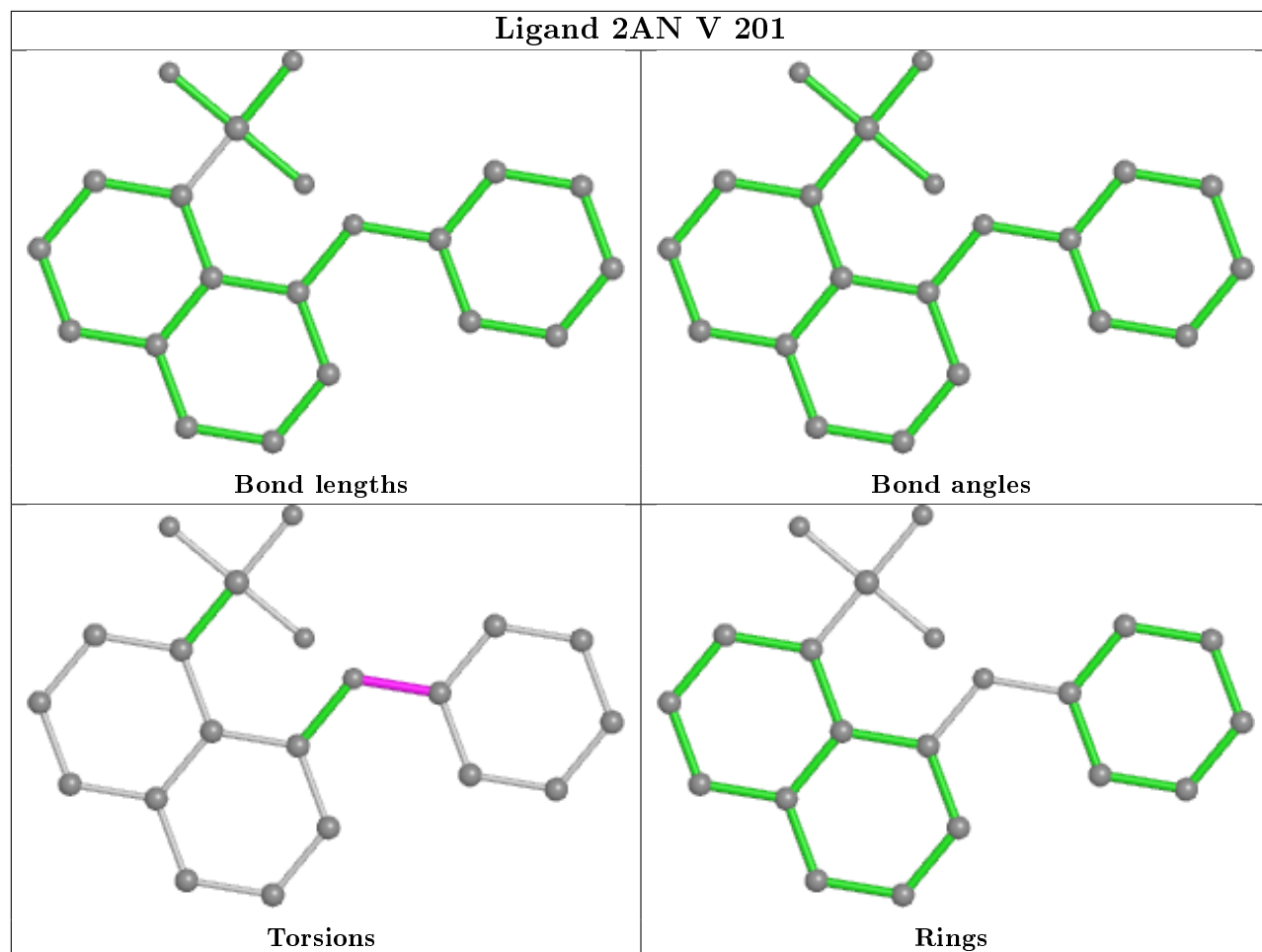


Torsions

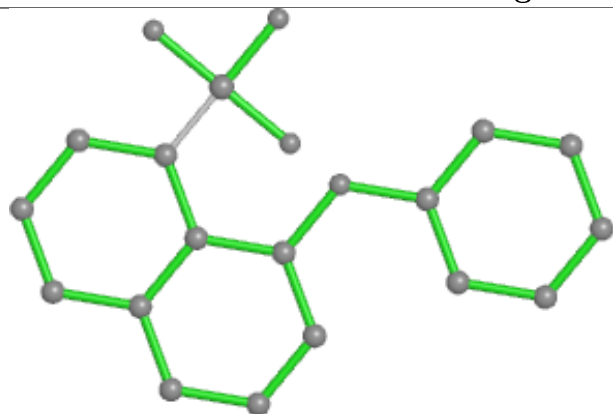


Rings

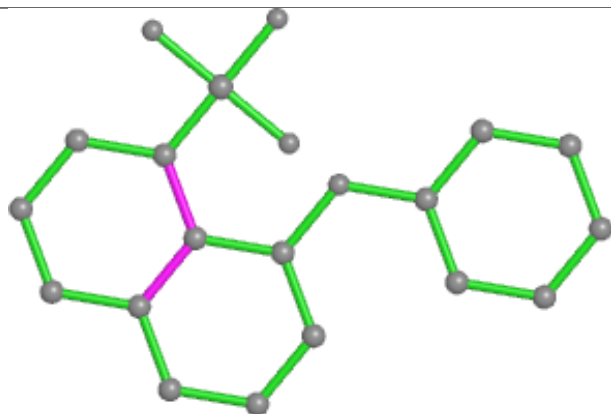
Ligand 2AN V 201



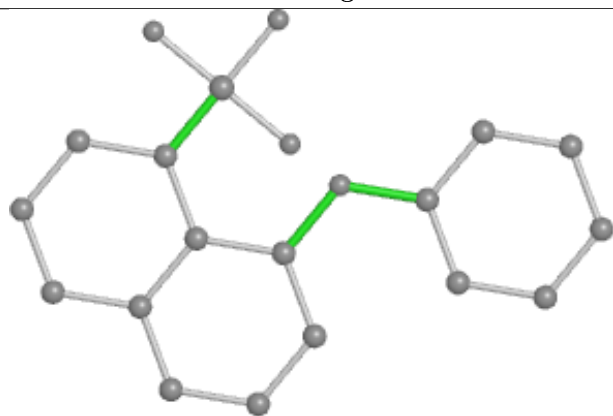
Ligand 2AN A 203



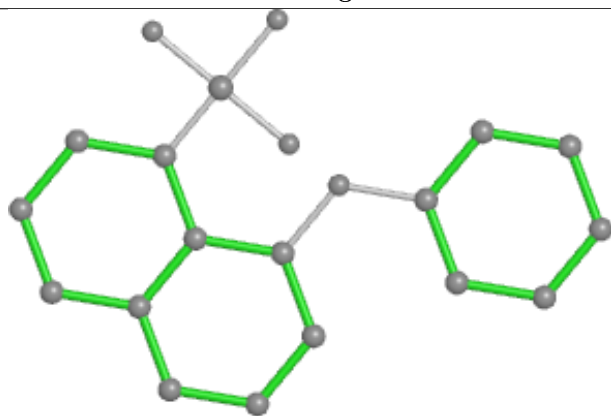
Bond lengths



Bond angles

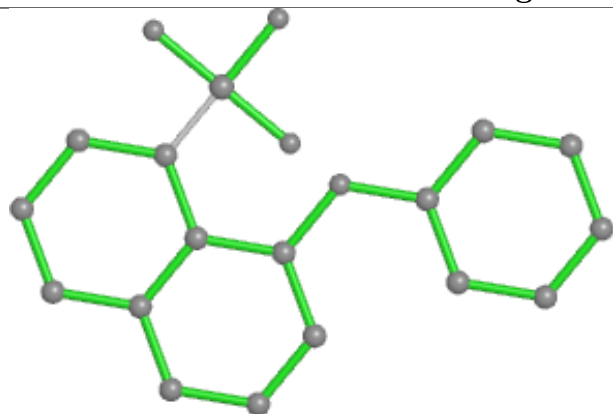


Torsions

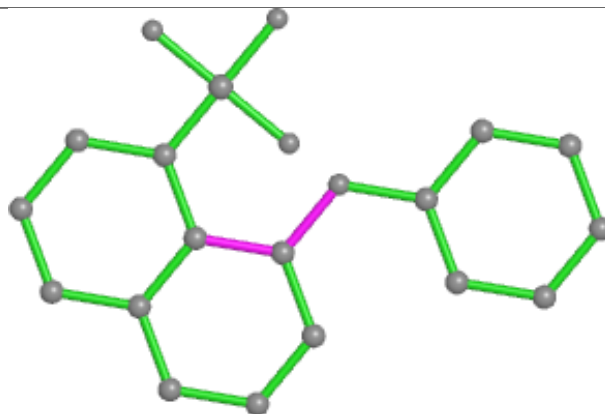


Rings

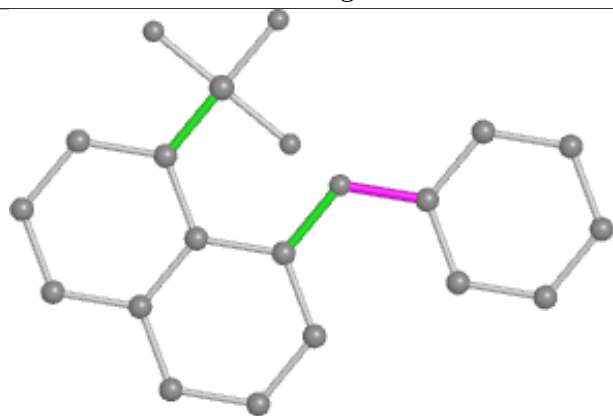
Ligand 2AN C 203



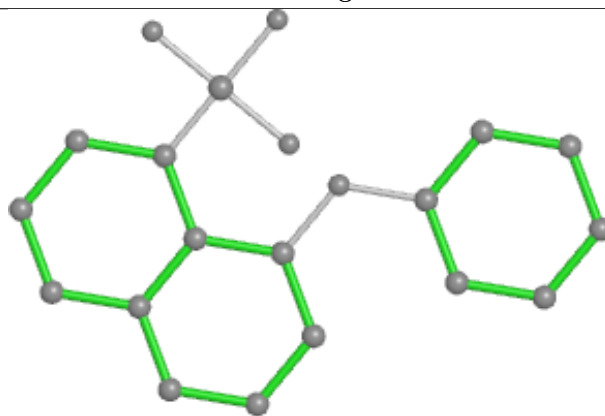
Bond lengths



Bond angles

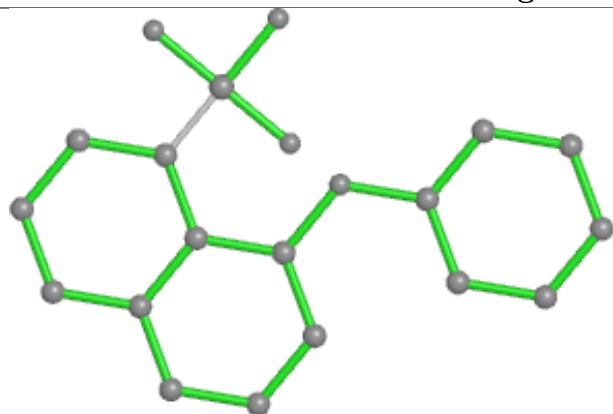


Torsions

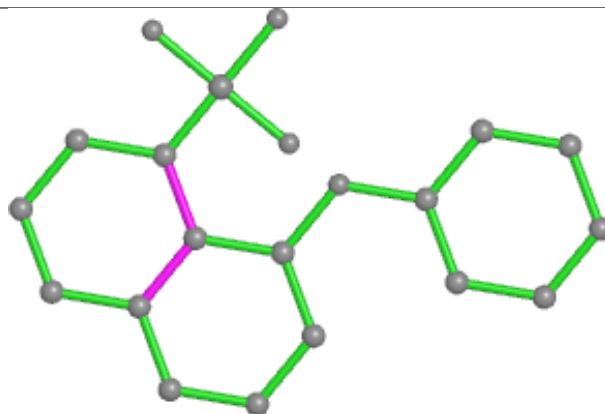


Rings

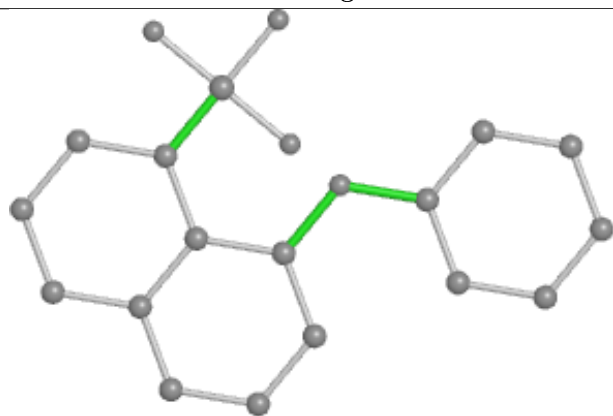
Ligand 2AN L 201



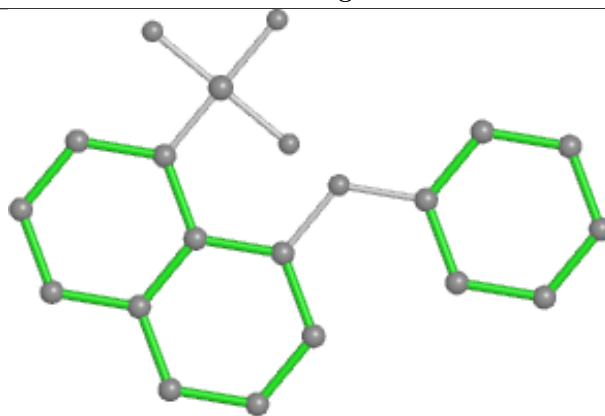
Bond lengths



Bond angles

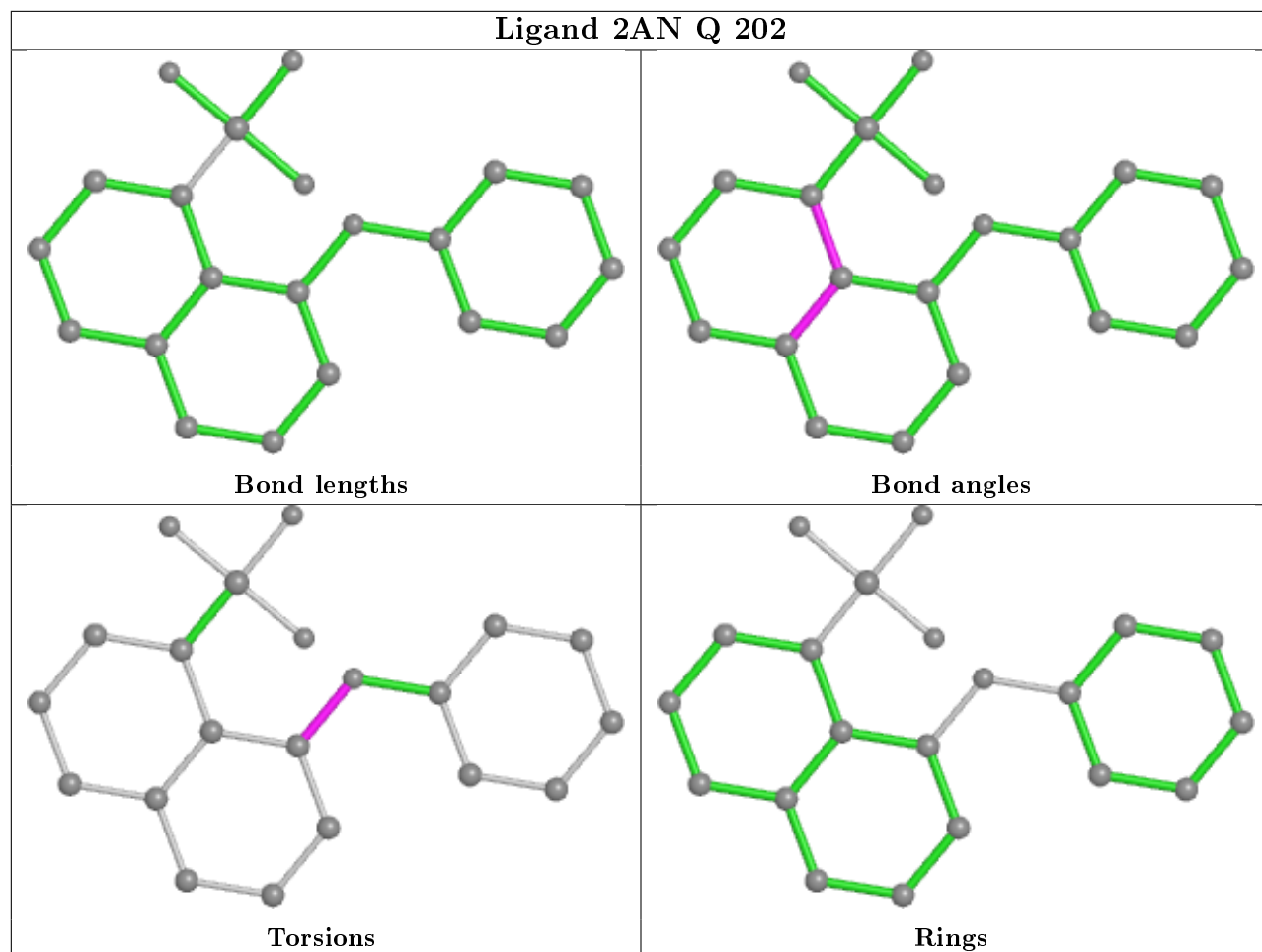


Torsions

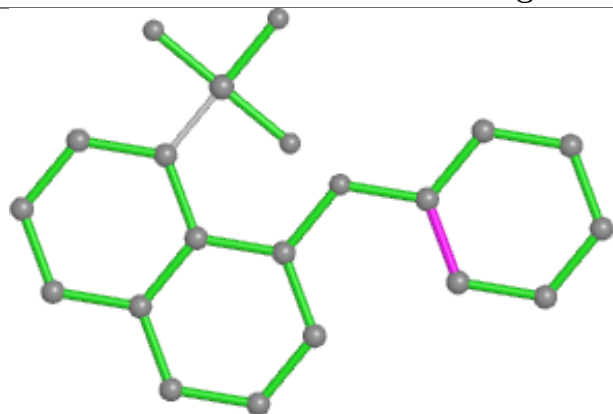


Rings

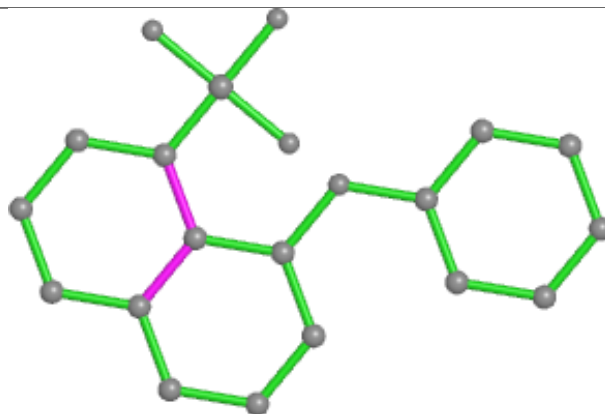
Ligand 2AN Q 202



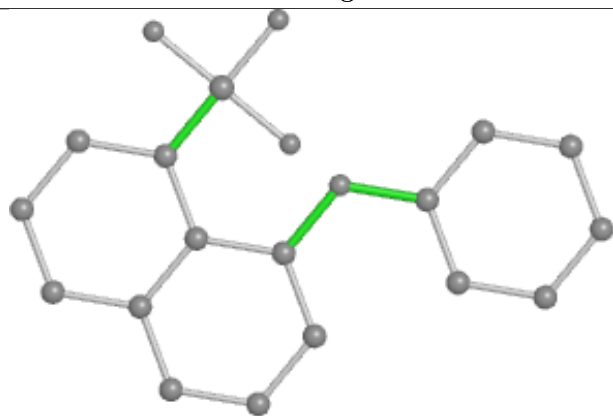
Ligand 2AN E 204



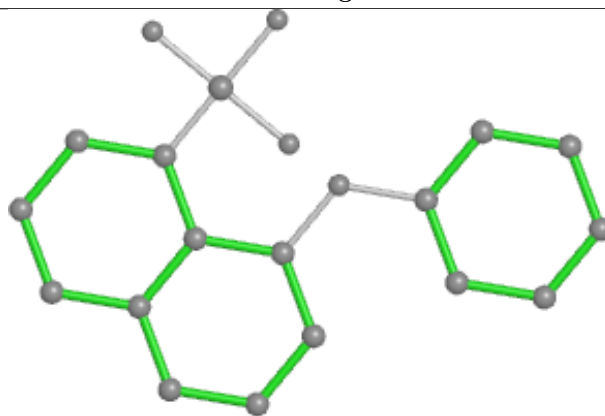
Bond lengths



Bond angles

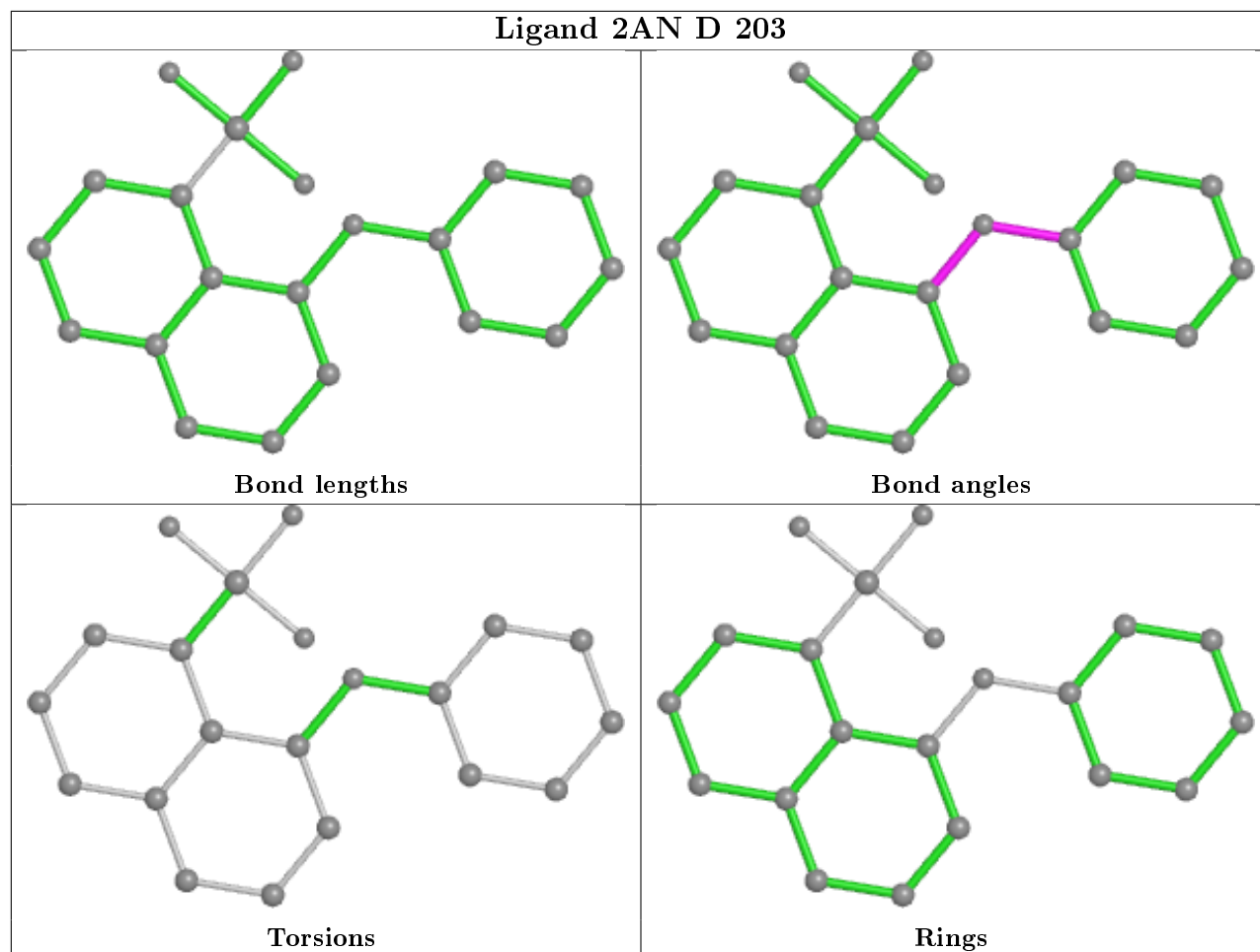


Torsions

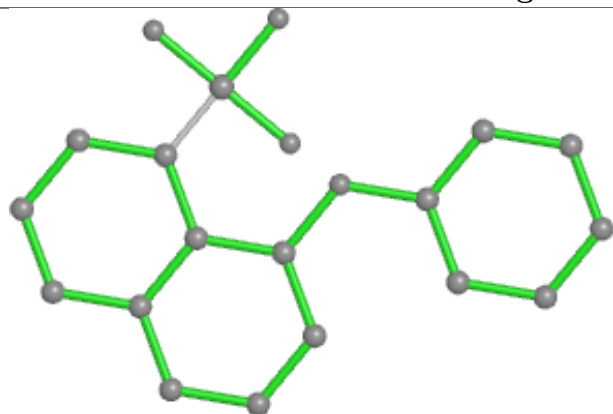


Rings

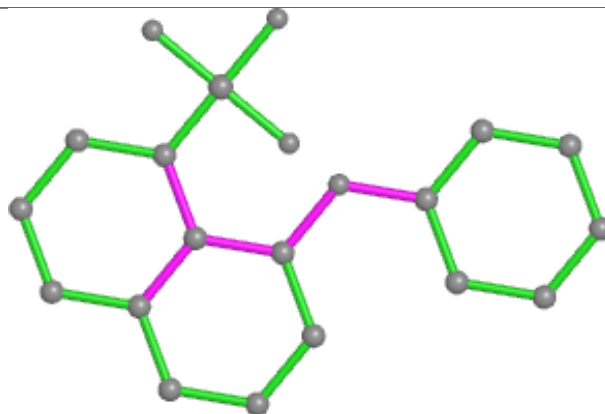
Ligand 2AN D 203



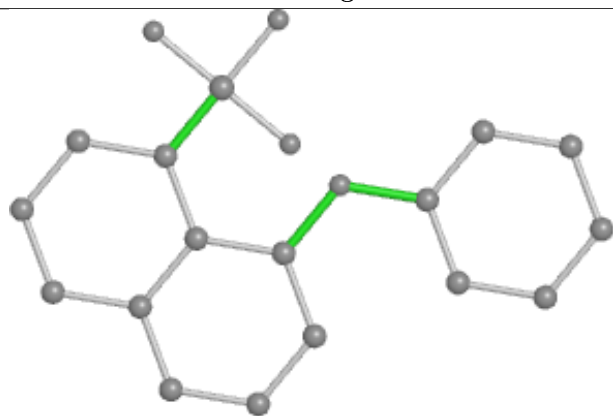
Ligand 2AN E 205



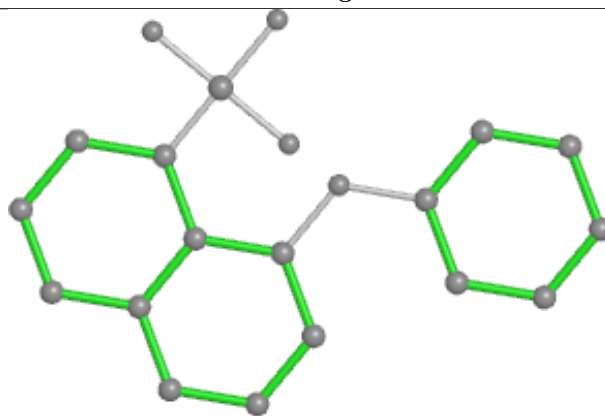
Bond lengths



Bond angles

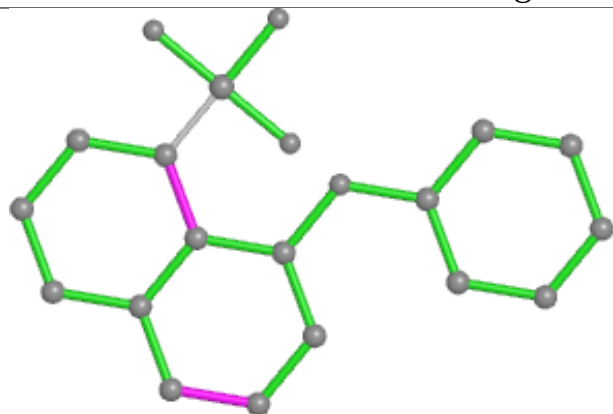


Torsions

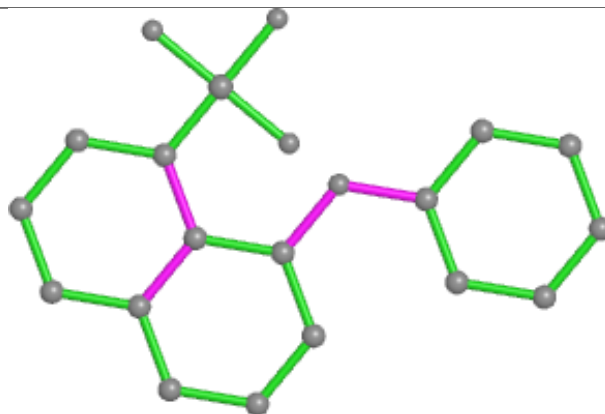


Rings

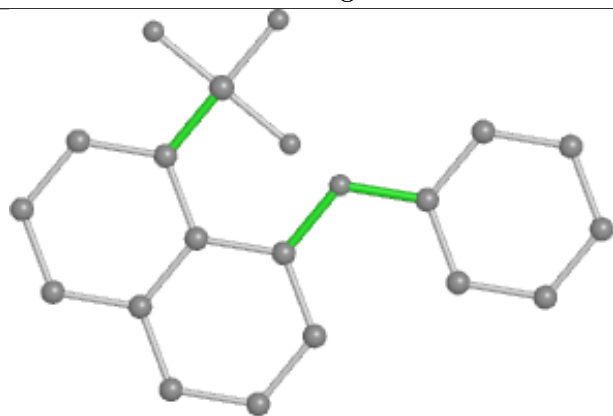
Ligand 2AN G 201



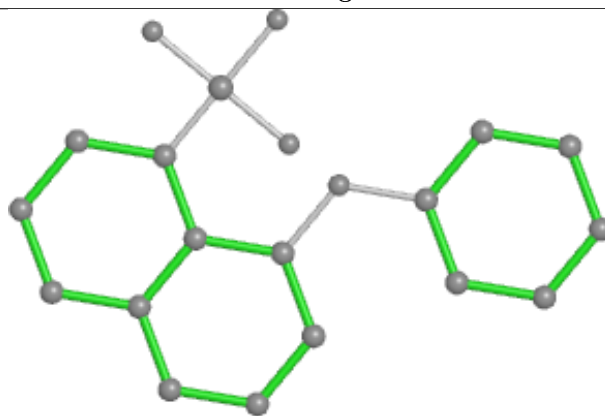
Bond lengths



Bond angles

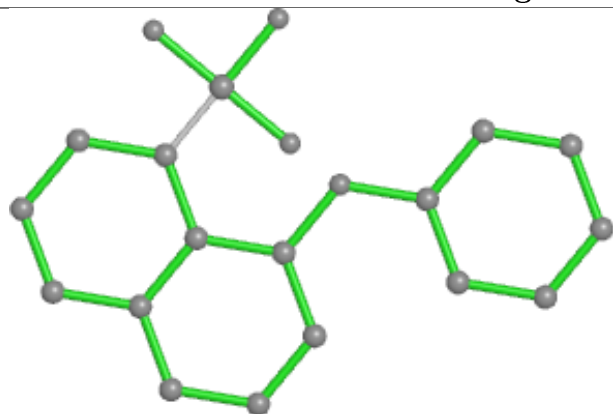


Torsions

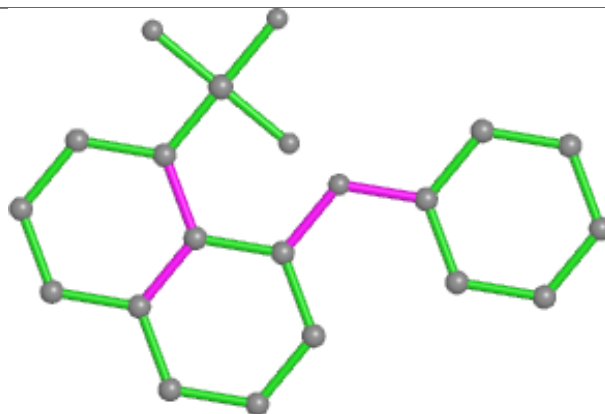


Rings

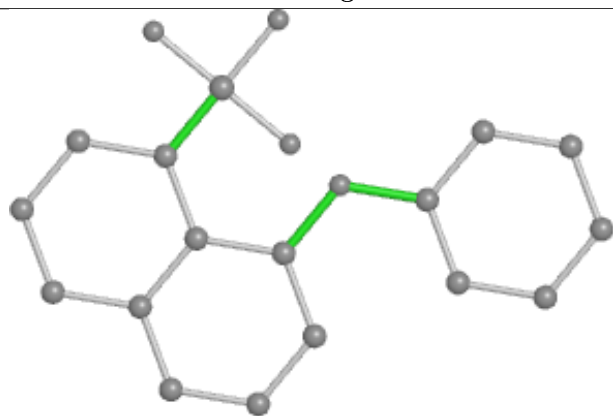
Ligand 2AN D 202



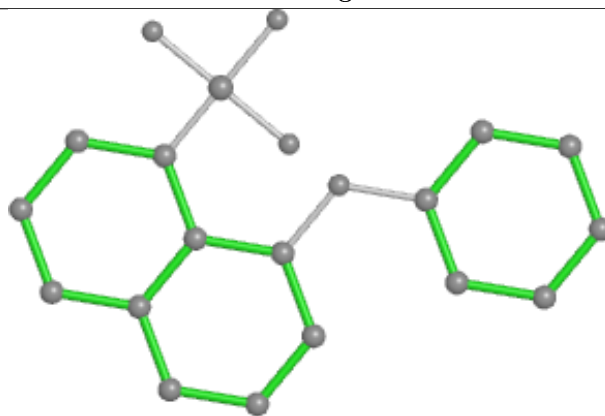
Bond lengths



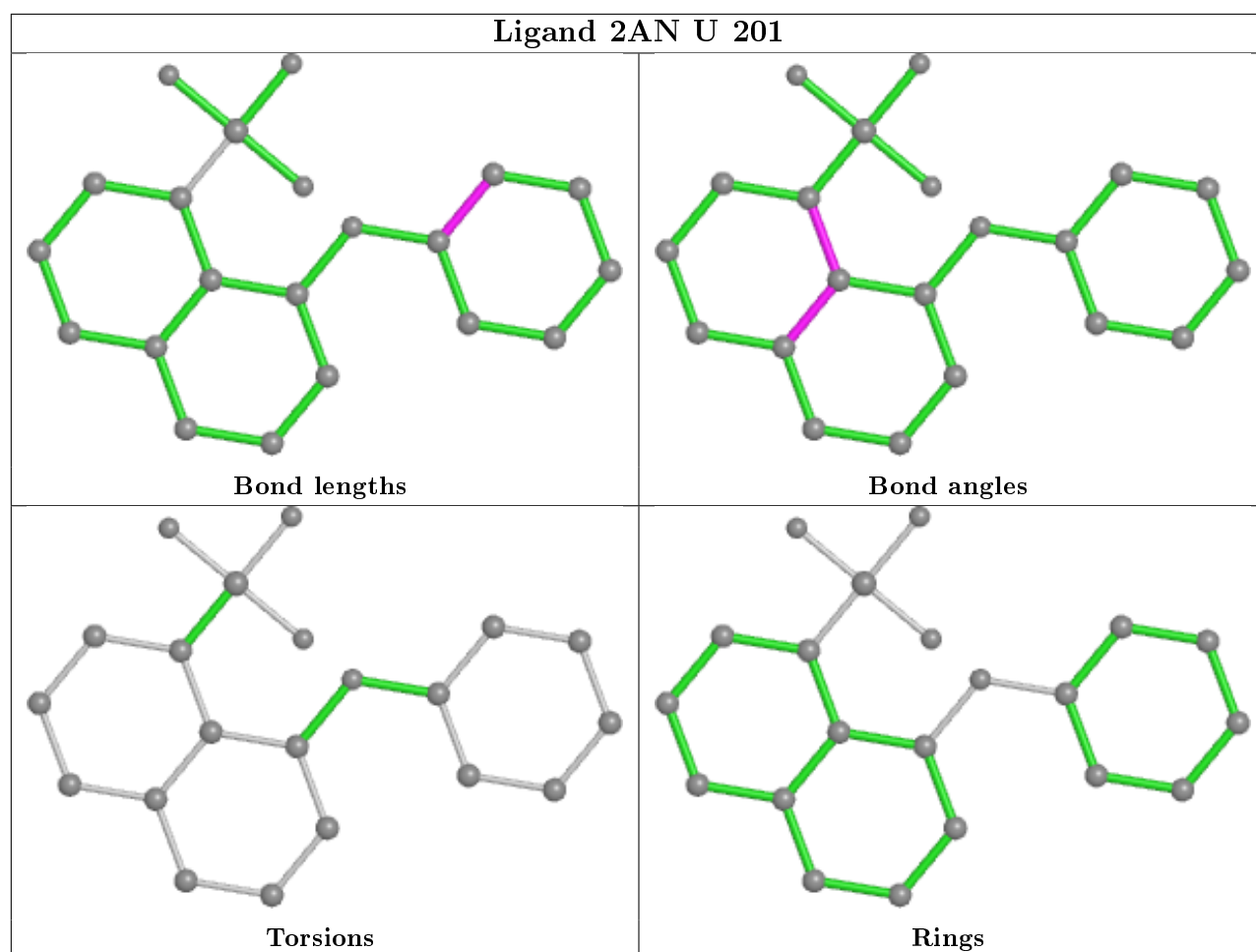
Bond angles



Torsions



Rings



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 ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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	159/165 (96%)	0.13	7 (4%)	34 32	27, 48, 69, 87	1 (0%)
1	B	159/165 (96%)	0.12	8 (5%)	28 26	25, 46, 77, 108	1 (0%)
1	C	159/165 (96%)	0.19	5 (3%)	49 45	29, 50, 73, 84	0
1	D	159/165 (96%)	0.17	8 (5%)	28 26	29, 50, 83, 123	0
1	E	159/165 (96%)	-0.21	0	100 100	20, 35, 57, 76	2 (1%)
1	F	159/165 (96%)	0.26	6 (3%)	40 37	34, 56, 82, 98	2 (1%)
1	G	159/165 (96%)	-0.03	3 (1%)	66 63	20, 39, 64, 83	3 (1%)
1	H	159/165 (96%)	-0.01	1 (0%)	89 89	24, 45, 65, 77	2 (1%)
1	I	159/165 (96%)	-0.07	1 (0%)	89 89	21, 40, 66, 83	4 (2%)
1	J	159/165 (96%)	-0.06	0	100 100	17, 40, 63, 72	1 (0%)
1	K	159/165 (96%)	0.10	4 (2%)	57 53	34, 48, 71, 77	3 (1%)
1	L	159/165 (96%)	-0.13	2 (1%)	77 75	19, 37, 62, 83	3 (1%)
1	M	159/165 (96%)	0.07	7 (4%)	34 32	25, 46, 79, 91	1 (0%)
1	N	159/165 (96%)	0.17	6 (3%)	40 37	23, 47, 72, 96	3 (1%)
1	O	159/165 (96%)	0.04	6 (3%)	40 37	28, 47, 77, 92	2 (1%)
1	P	159/165 (96%)	0.08	4 (2%)	57 53	29, 46, 70, 83	2 (1%)
1	Q	159/165 (96%)	0.18	5 (3%)	49 45	26, 50, 75, 86	2 (1%)
1	R	159/165 (96%)	-0.02	3 (1%)	66 63	23, 44, 66, 107	2 (1%)
1	S	159/165 (96%)	0.33	7 (4%)	34 32	31, 57, 86, 99	2 (1%)
1	T	159/165 (96%)	0.37	14 (8%)	10 7	36, 54, 88, 115	1 (0%)
1	U	159/165 (96%)	-0.17	2 (1%)	77 75	17, 37, 55, 103	3 (1%)
1	V	159/165 (96%)	0.46	8 (5%)	28 26	35, 61, 86, 103	0
1	W	159/165 (96%)	0.04	3 (1%)	66 63	23, 40, 67, 74	2 (1%)
1	X	159/165 (96%)	-0.02	1 (0%)	89 89	25, 44, 67, 80	2 (1%)

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2		OWAB(Å ²)	Q<0.9	
1	Y	159/165 (96%)	-0.18	1 (0%)	89	89	20, 39, 58, 78	3 (1%)
1	Z	159/165 (96%)	-0.03	2 (1%)	77	75	27, 44, 63, 77	2 (1%)
1	a	159/165 (96%)	-0.08	2 (1%)	77	75	28, 43, 65, 76	3 (1%)
1	b	159/165 (96%)	-0.16	2 (1%)	77	75	20, 38, 59, 69	2 (1%)
All	All	4452/4620 (96%)	0.05	118 (2%)	54	50	17, 45, 74, 123	54 (1%)

All (118) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	127	THR	6.7
1	T	126	CYS	6.5
1	V	112	SER	6.3
1	A	127	THR	6.2
1	S	62	GLY	6.2
1	S	88	GLU	6.0
1	W	4	TYR	5.6
1	C	15	ALA	5.4
1	D	126	CYS	5.0
1	M	52	GLY	4.9
1	V	53	THR	4.9
1	P	15	ALA	4.8
1	R	112	SER	4.7
1	G	48	ASP	4.5
1	a	4	TYR	4.5
1	T	52	GLY	4.4
1	K	72	PHE	4.4
1	C	92	LEU	4.2
1	N	4	TYR	4.1
1	T	61	ASP	4.0
1	K	154	ASN	3.9
1	B	127	THR	3.9
1	O	86	LEU	3.8
1	V	126	CYS	3.7
1	T	62	GLY	3.7
1	U	127	THR	3.7
1	F	158	PHE	3.6
1	T	125	GLY	3.5
1	S	3	ALA	3.5
1	A	126	CYS	3.5
1	U	1	MET	3.4
1	M	60	VAL	3.4

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Mol	Chain	Res	Type	RSRZ
1	T	136	GLY	3.2
1	Z	15	ALA	3.2
1	V	136	GLY	3.1
1	R	2	ALA	3.1
1	D	86	LEU	3.1
1	B	130	GLU	3.1
1	K	69	LEU	3.1
1	I	92	LEU	3.1
1	T	132	GLU	3.0
1	B	126	CYS	3.0
1	D	70	HIS	3.0
1	S	92	LEU	2.9
1	T	127	THR	2.9
1	S	29	GLN	2.9
1	D	120	TYR	2.9
1	S	93	ARG	2.8
1	Y	78	ALA	2.8
1	N	136	GLY	2.8
1	A	1	MET	2.8
1	F	152	ALA	2.7
1	b	136	GLY	2.6
1	L	127	THR	2.6
1	O	111	GLY	2.6
1	R	1	MET	2.6
1	A	45	ILE	2.6
1	V	1	MET	2.6
1	S	52	GLY	2.6
1	T	33	LYS	2.6
1	b	51	VAL	2.6
1	B	97	GLU	2.6
1	T	1	MET	2.6
1	A	136	GLY	2.6
1	T	37	HIS	2.5
1	M	87	PHE	2.5
1	V	52	GLY	2.5
1	C	61	ASP	2.5
1	X	136	GLY	2.5
1	H	126	CYS	2.4
1	C	1	MET	2.4
1	G	47	GLY	2.4
1	T	32	VAL	2.4
1	P	61	ASP	2.4

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Mol	Chain	Res	Type	RSRZ
1	P	126	CYS	2.4
1	Q	29	GLN	2.4
1	B	1	MET	2.4
1	N	65	LEU	2.4
1	G	15	ALA	2.4
1	B	112	SER	2.4
1	A	88	GLU	2.4
1	O	110	GLY	2.4
1	P	128	VAL	2.4
1	A	77	ALA	2.4
1	V	15	ALA	2.4
1	M	126	CYS	2.4
1	Z	60	VAL	2.3
1	Q	112	SER	2.3
1	V	158	PHE	2.3
1	M	55	THR	2.3
1	W	126	CYS	2.3
1	N	1	MET	2.3
1	O	126	CYS	2.3
1	T	131	GLU	2.3
1	D	94	ASP	2.2
1	N	61	ASP	2.2
1	Q	77	ALA	2.2
1	a	128	VAL	2.2
1	F	120	TYR	2.2
1	D	110	GLY	2.2
1	F	157	VAL	2.2
1	K	6	ILE	2.1
1	O	43	GLU	2.1
1	F	94	ASP	2.1
1	Q	120	TYR	2.1
1	M	137	GLU	2.1
1	F	116	ILE	2.1
1	B	77	ALA	2.1
1	B	128	VAL	2.1
1	D	43	GLU	2.1
1	W	128	VAL	2.1
1	C	52	GLY	2.1
1	T	15	ALA	2.1
1	L	126	CYS	2.1
1	N	43[A]	GLU	2.1
1	M	91	VAL	2.0

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Mol	Chain	Res	Type	RSRZ
1	O	127	THR	2.0
1	Q	131	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(\AA^2)	Q<0.9
2	2AN	Z	202	21/21	0.82	0.29	21,29,35,38	21
2	2AN	W	204	21/21	0.84	0.21	41,53,68,75	0
2	2AN	G	205	21/21	0.85	0.23	52,66,74,85	0
2	2AN	N	203	21/21	0.86	0.20	41,48,58,62	0
2	2AN	R	203	21/21	0.86	0.30	21,26,39,41	21
2	2AN	R	201	21/21	0.87	0.22	35,45,68,70	0
2	2AN	G	204	21/21	0.87	0.24	22,32,42,45	0
2	2AN	W	203	21/21	0.88	0.32	16,21,29,33	21
2	2AN	Q	203	21/21	0.88	0.21	70,81,96,100	0
2	2AN	E	204	21/21	0.88	0.19	35,46,58,73	0
2	2AN	X	202	21/21	0.89	0.23	27,32,37,44	21
2	2AN	I	204	21/21	0.89	0.19	42,57,68,81	0
2	2AN	I	201	21/21	0.89	0.18	21,28,35,42	0
2	2AN	E	202	21/21	0.89	0.16	23,31,39,53	0
2	2AN	b	201	21/21	0.90	0.20	34,44,49,52	0
2	2AN	Y	203	21/21	0.90	0.16	32,38,47,48	0
2	2AN	I	205	21/21	0.90	0.18	46,60,65,70	0
2	2AN	D	203	21/21	0.90	0.21	40,48,58,62	0
2	2AN	N	201	21/21	0.91	0.22	24,29,34,37	0
2	2AN	W	201	21/21	0.91	0.24	35,44,54,63	0
2	2AN	L	204	21/21	0.91	0.18	31,40,46,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	2AN	C	201	21/21	0.91	0.20	28,39,47,61	0
2	2AN	F	201	21/21	0.91	0.17	31,37,47,56	0
2	2AN	U	202	21/21	0.91	0.25	24,31,42,48	0
2	2AN	b	203	21/21	0.91	0.19	29,43,52,55	0
2	2AN	P	202	21/21	0.92	0.15	40,51,66,71	0
2	2AN	M	202	21/21	0.92	0.18	26,30,37,43	0
2	2AN	N	204	21/21	0.92	0.20	25,32,44,52	0
2	2AN	K	203	21/21	0.92	0.16	33,42,66,74	0
2	2AN	M	203	21/21	0.92	0.20	42,53,70,74	0
2	2AN	J	201	21/21	0.92	0.23	20,23,29,33	21
2	2AN	C	203	21/21	0.92	0.19	41,51,70,81	0
2	2AN	S	201	21/21	0.92	0.22	27,33,38,52	0
2	2AN	a	201	21/21	0.92	0.17	25,36,46,49	0
2	2AN	K	202	21/21	0.93	0.14	43,46,53,59	0
2	2AN	B	205	21/21	0.93	0.16	39,54,64,68	0
2	2AN	O	201	21/21	0.93	0.17	28,35,40,43	0
2	2AN	L	205	21/21	0.93	0.20	37,44,50,54	0
2	2AN	Y	204	21/21	0.93	0.16	30,47,51,57	0
2	2AN	E	203	21/21	0.93	0.21	23,32,48,61	0
2	2AN	Y	202	21/21	0.93	0.17	27,32,35,38	0
2	2AN	A	203	21/21	0.93	0.18	31,43,46,54	0
2	2AN	R	204	21/21	0.93	0.21	30,39,58,61	0
3	EPE	C	205	15/15	0.93	0.18	29,34,52,57	0
2	2AN	U	205	21/21	0.93	0.15	37,47,60,78	0
2	2AN	B	204	21/21	0.93	0.16	29,40,59,67	0
2	2AN	B	202	21/21	0.94	0.13	28,34,53,63	0
2	2AN	X	203	21/21	0.94	0.22	22,31,53,61	0
2	2AN	Z	203	21/21	0.94	0.17	35,43,56,64	0
2	2AN	U	203	21/21	0.94	0.14	24,38,46,50	0
2	2AN	E	201	21/21	0.94	0.18	15,21,28,38	0
3	EPE	Z	204	15/15	0.94	0.19	36,44,54,54	0
2	2AN	R	202	21/21	0.94	0.19	21,29,48,53	0
2	2AN	H	201	21/21	0.94	0.19	26,31,43,45	0
2	2AN	V	201	21/21	0.94	0.13	44,51,56,61	0
2	2AN	V	202	21/21	0.94	0.17	34,46,79,82	0
2	2AN	C	204	21/21	0.94	0.17	33,39,48,56	0
2	2AN	G	203	21/21	0.94	0.22	25,34,56,60	0
2	2AN	Q	202	21/21	0.94	0.15	35,50,64,68	0
2	2AN	X	201	21/21	0.94	0.30	37,41,48,50	0
2	2AN	b	202	21/21	0.94	0.20	19,23,34,40	0
2	2AN	U	204	21/21	0.95	0.15	24,26,34,45	0
2	2AN	A	202	21/21	0.95	0.17	23,35,40,41	0

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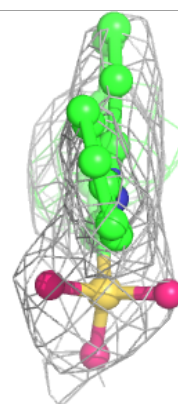
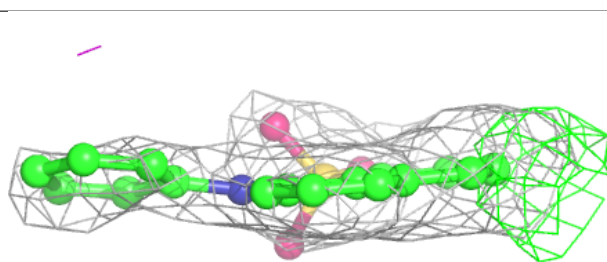
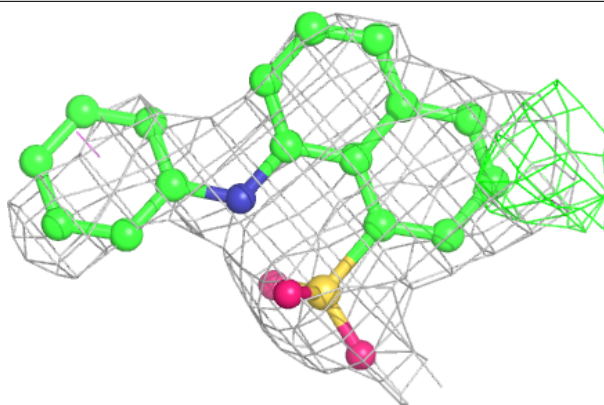
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	2AN	P	201	21/21	0.95	0.19	25,30,38,41	21
2	2AN	Y	201	21/21	0.95	0.17	22,24,30,36	0
2	2AN	J	202	21/21	0.95	0.19	22,27,39,44	0
2	2AN	K	201	21/21	0.95	0.17	28,33,36,42	0
2	2AN	A	201	21/21	0.95	0.18	25,34,46,71	0
2	2AN	Z	201	21/21	0.95	0.20	26,36,46,48	0
2	2AN	L	202	21/21	0.95	0.14	23,28,32,33	0
2	2AN	B	203	21/21	0.95	0.15	38,44,50,56	0
2	2AN	I	202	21/21	0.95	0.16	19,23,30,38	0
2	2AN	E	205	21/21	0.95	0.20	31,42,54,63	0
2	2AN	D	202	21/21	0.95	0.16	32,39,44,48	0
2	2AN	U	201	21/21	0.95	0.14	28,34,43,47	0
2	2AN	O	202	21/21	0.96	0.18	23,28,33,37	0
2	2AN	A	204	21/21	0.96	0.15	35,43,51,54	0
2	2AN	W	202	21/21	0.96	0.13	24,30,35,40	0
2	2AN	H	202	21/21	0.96	0.17	25,36,40,43	0
2	2AN	L	201	21/21	0.96	0.15	19,26,30,37	0
4	SO4	X	204	5/5	0.96	0.10	39,42,44,49	0
2	2AN	I	203	21/21	0.96	0.17	23,32,55,59	0
2	2AN	Q	201	21/21	0.96	0.16	30,37,45,51	0
2	2AN	H	203	21/21	0.96	0.16	22,28,34,38	0
2	2AN	G	201	21/21	0.96	0.16	15,23,26,34	0
2	2AN	B	201	21/21	0.96	0.15	27,34,44,47	0
2	2AN	D	201	21/21	0.96	0.18	37,45,53,56	0
2	2AN	G	202	21/21	0.97	0.15	18,27,34,41	0
2	2AN	L	203	21/21	0.97	0.14	18,31,40,48	0
4	SO4	b	204	5/5	0.97	0.10	32,36,40,41	0
4	SO4	V	203	5/5	0.97	0.14	35,48,55,57	0
2	2AN	M	201	21/21	0.97	0.17	30,35,38,45	0
2	2AN	N	202	21/21	0.97	0.13	25,30,46,54	0
2	2AN	C	202	21/21	0.98	0.15	24,39,49,53	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.

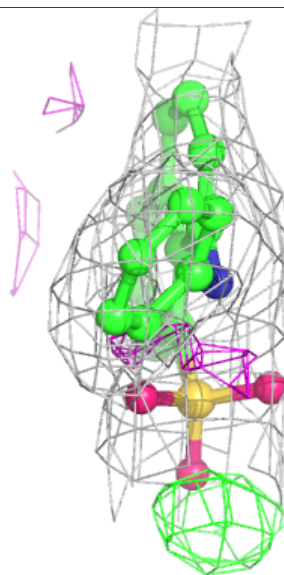
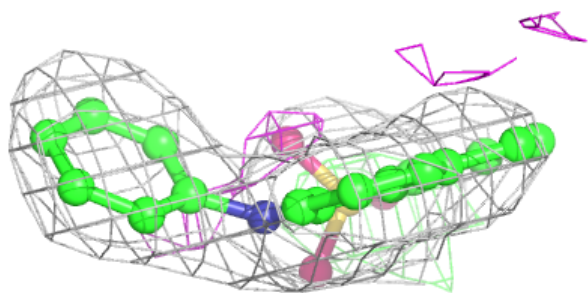
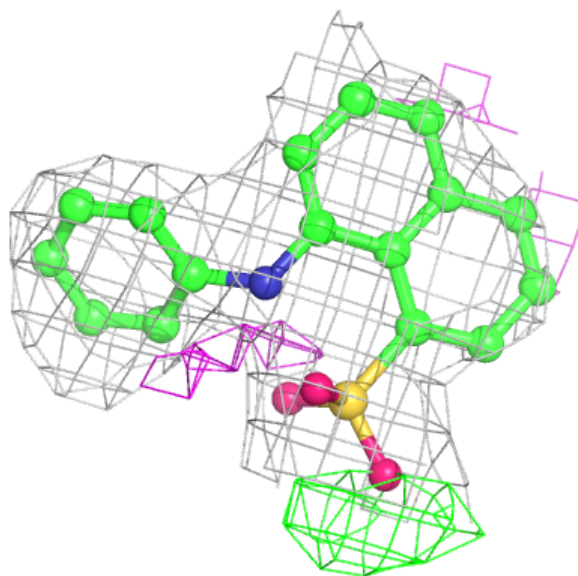
Electron density around 2AN Z 202:

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



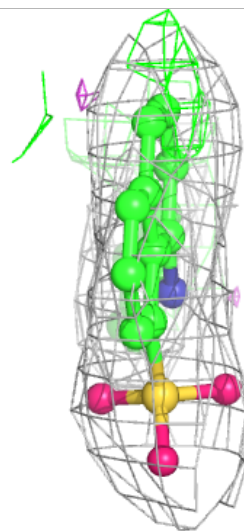
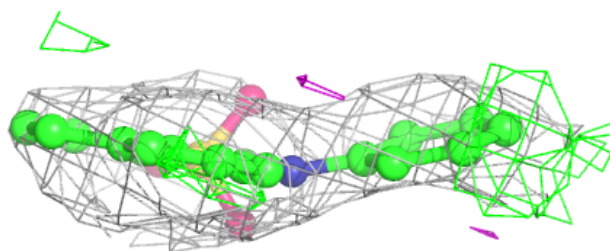
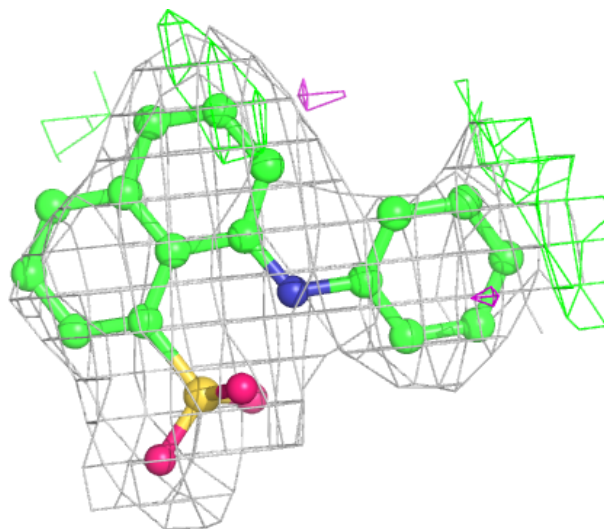
Electron density around 2AN W 204:

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



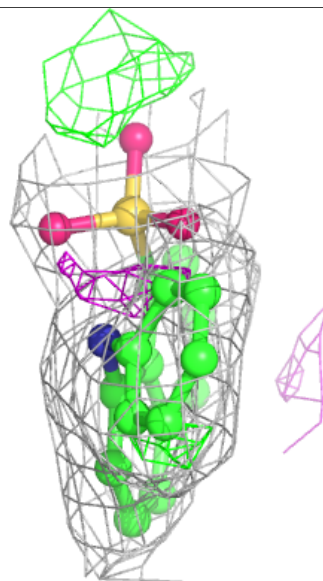
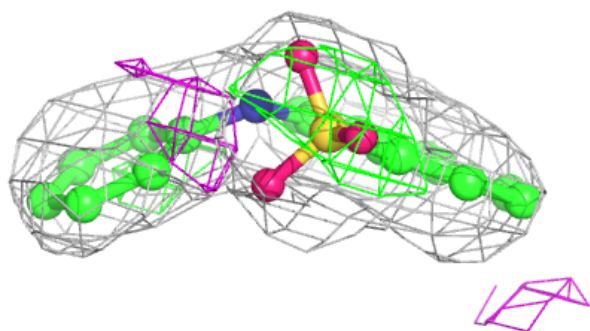
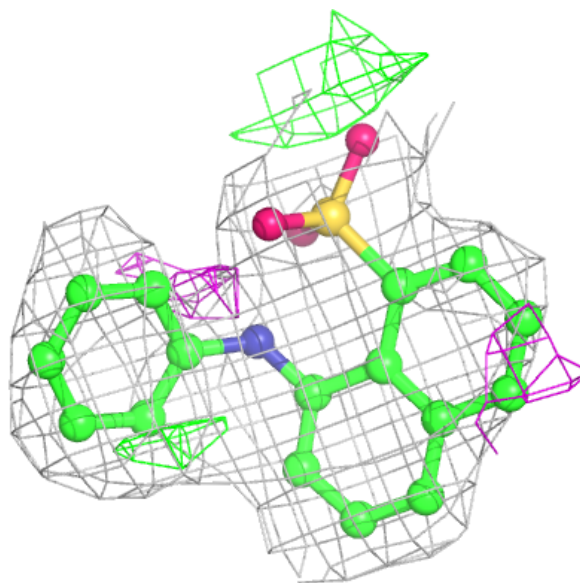
Electron density around 2AN G 205:

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



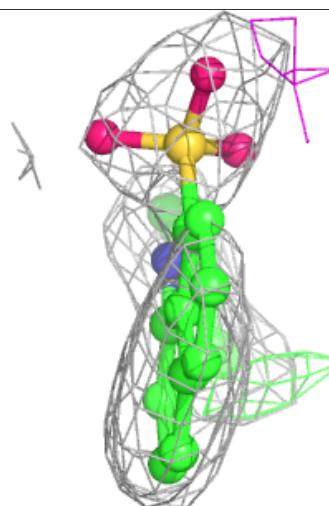
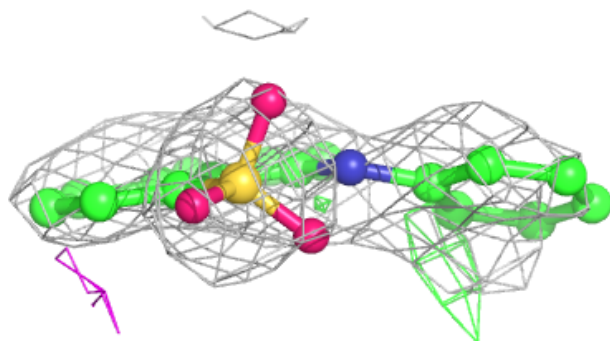
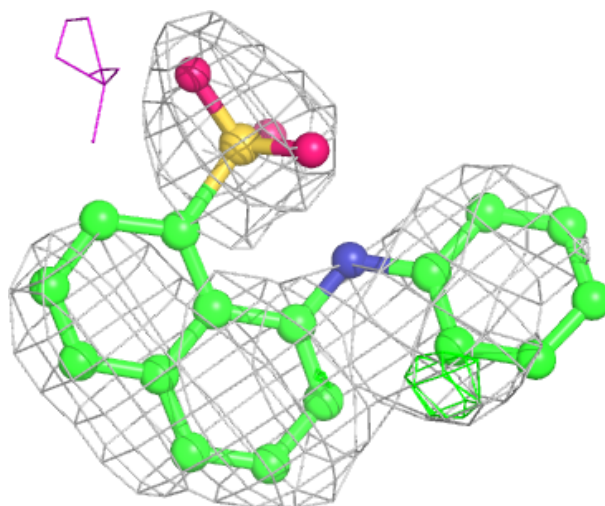
Electron density around 2AN N 203:

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



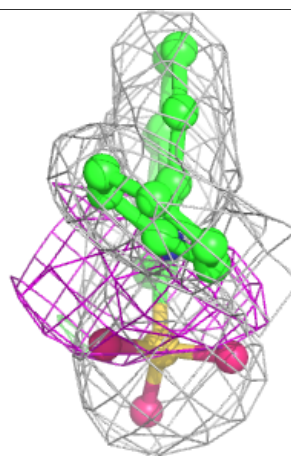
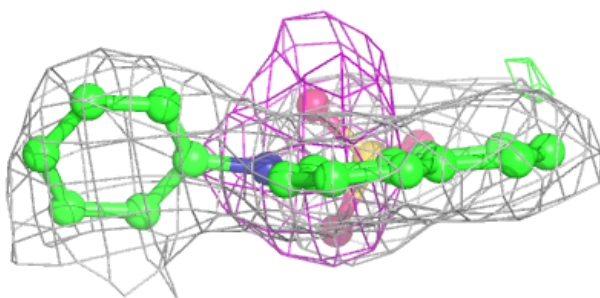
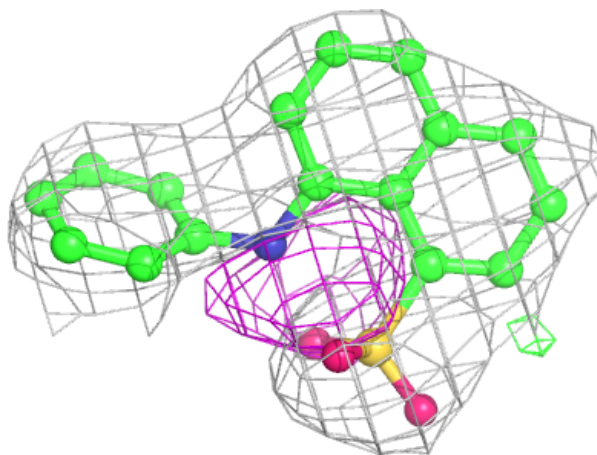
Electron density around 2AN R 203:

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



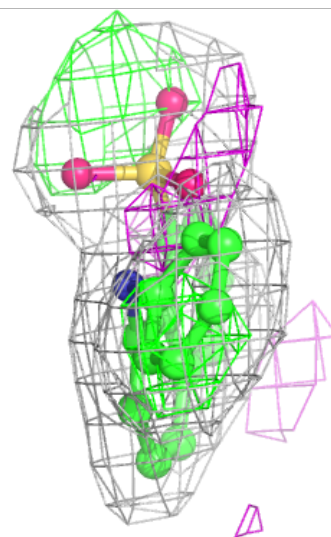
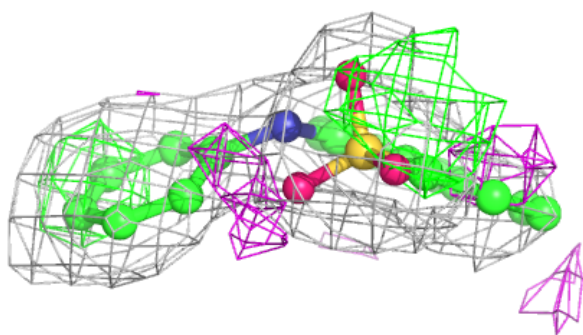
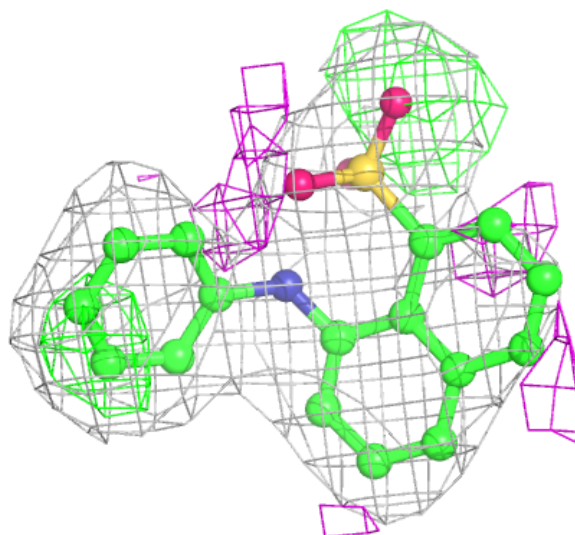
Electron density around 2AN R 201:

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



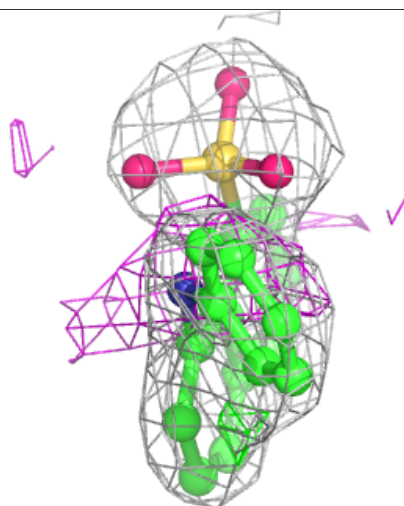
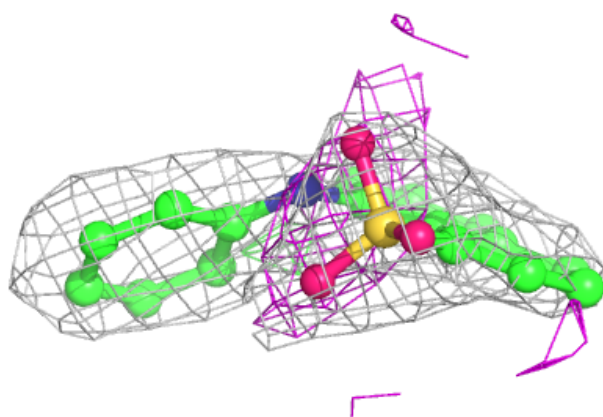
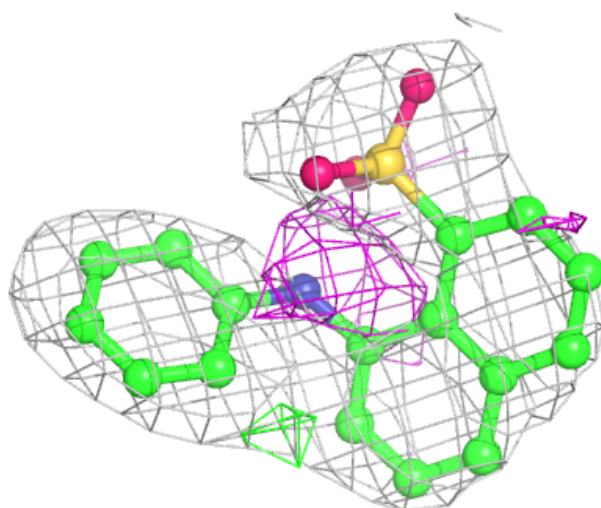
Electron density around 2AN G 204:

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



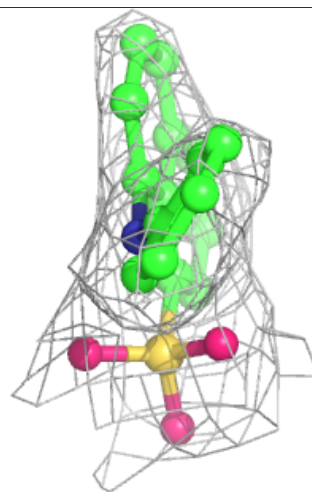
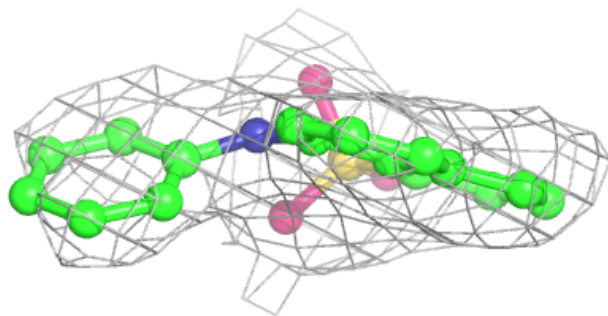
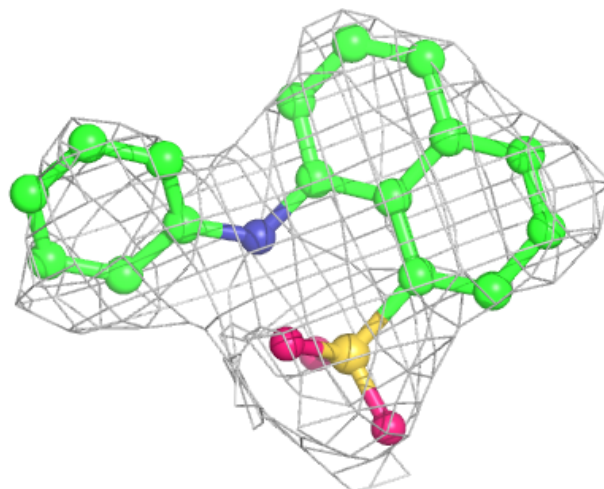
Electron density around 2AN W 203:

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



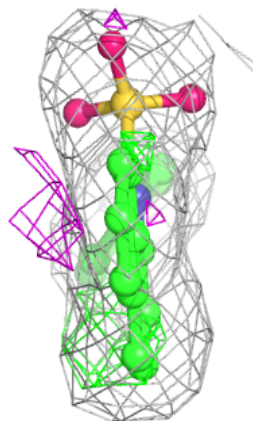
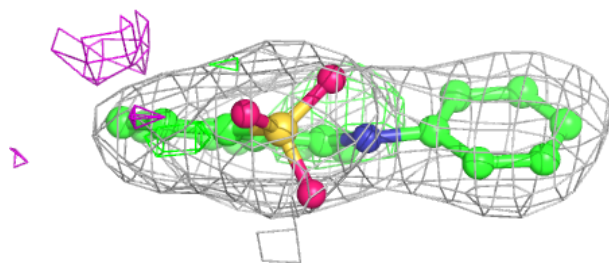
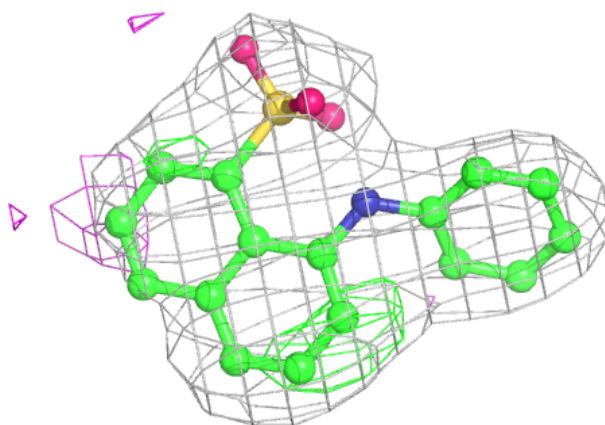
Electron density around 2AN Q 203:

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and green (positive)



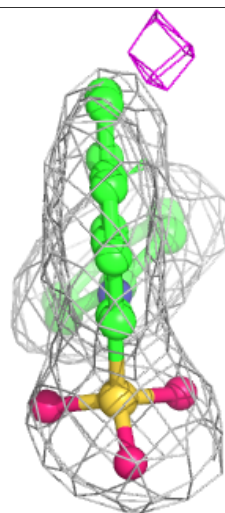
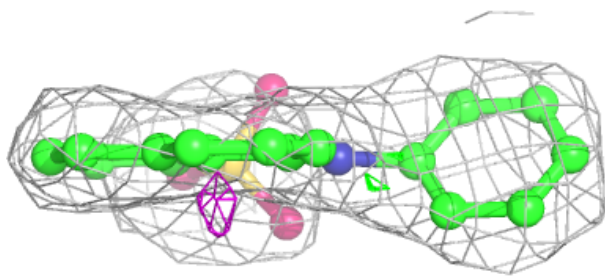
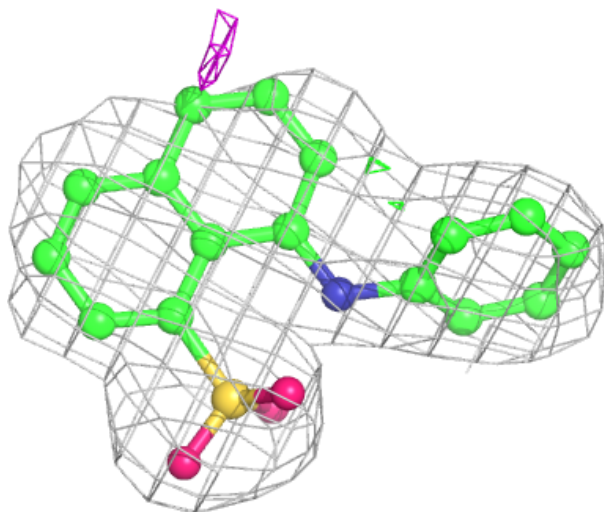
Electron density around 2AN E 204:

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and green (positive)



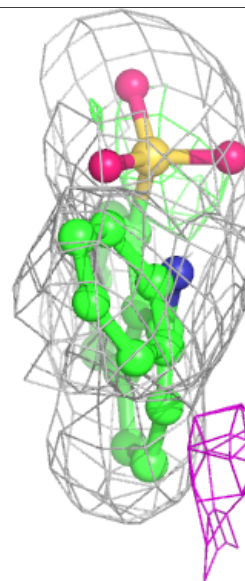
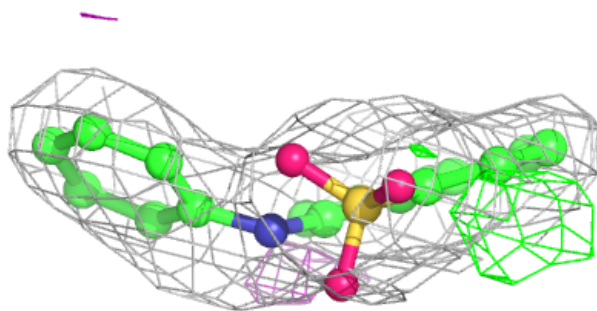
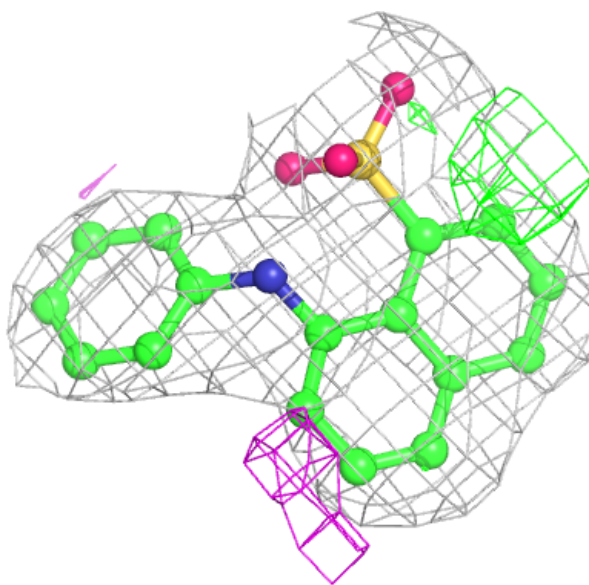
Electron density around 2AN X 202:

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



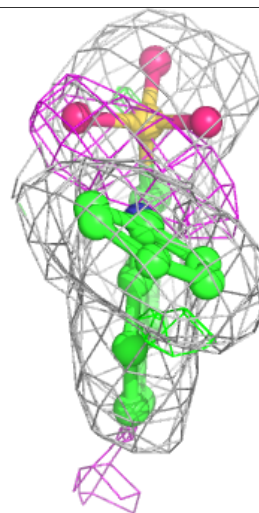
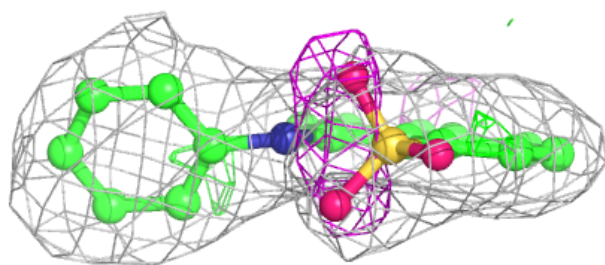
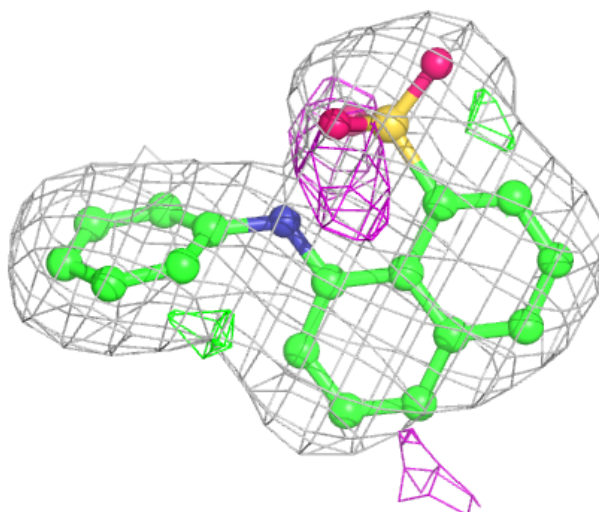
Electron density around 2AN I 204:

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and green (positive)



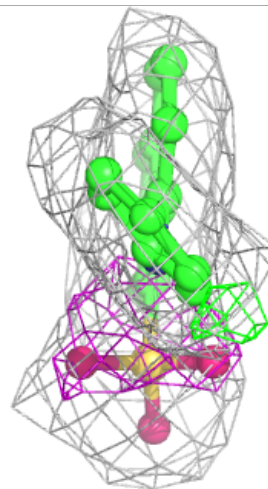
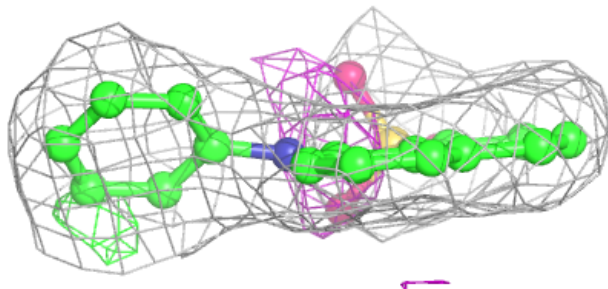
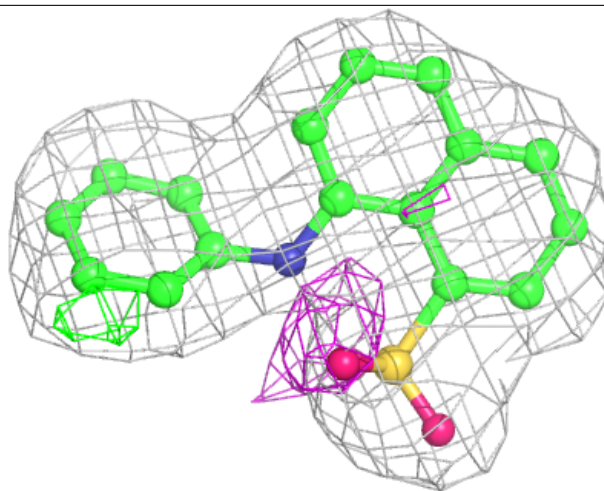
Electron density around 2AN I 201:

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and green (positive)



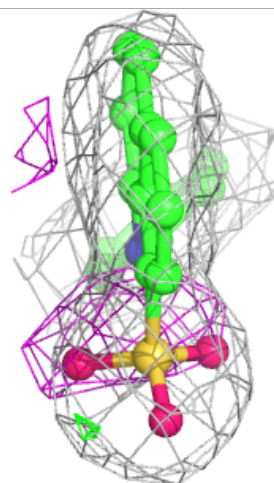
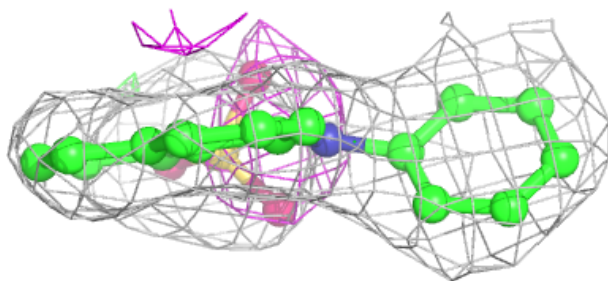
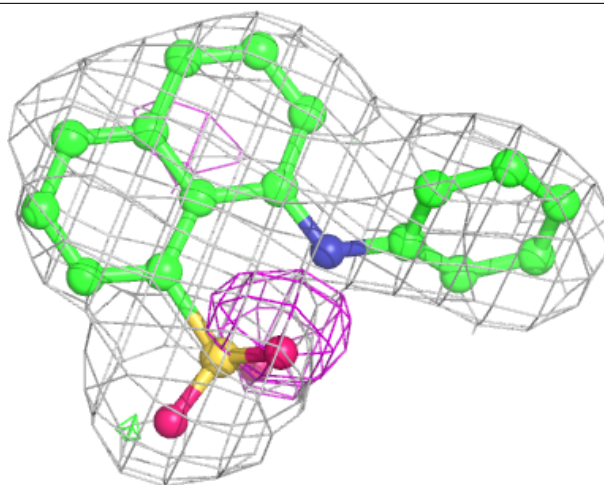
Electron density around 2AN E 202:

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



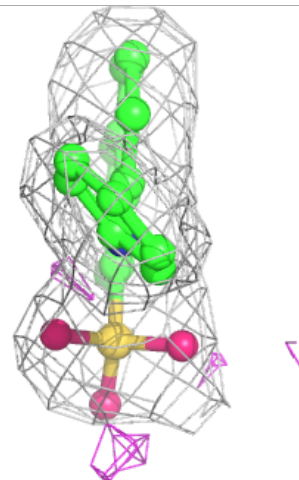
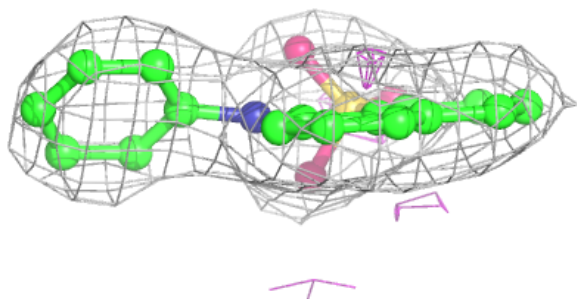
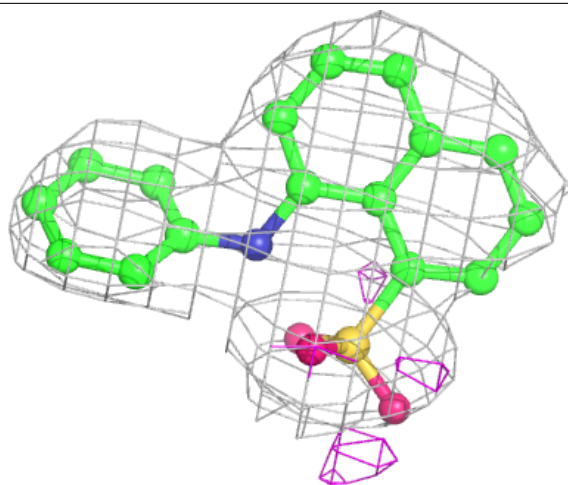
Electron density around 2AN b 201:

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and green (positive)



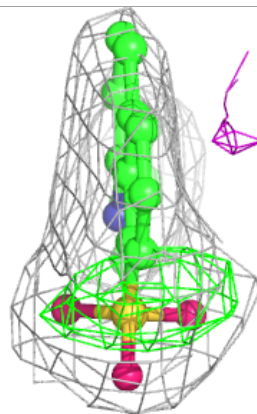
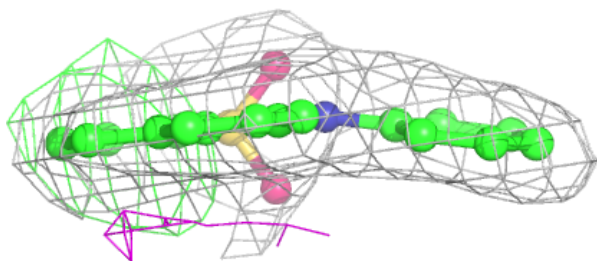
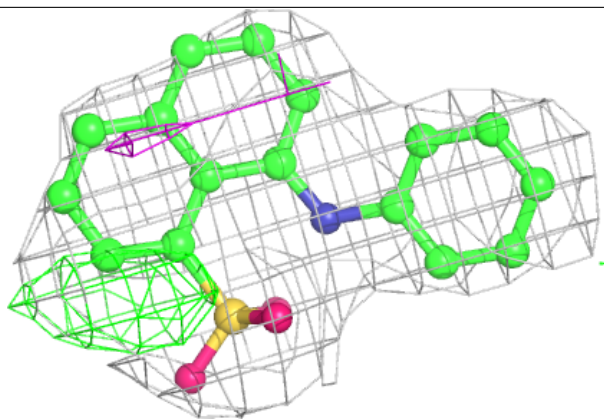
Electron density around 2AN I 205:

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and green (positive)



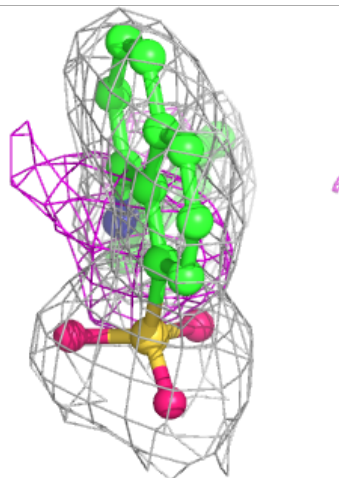
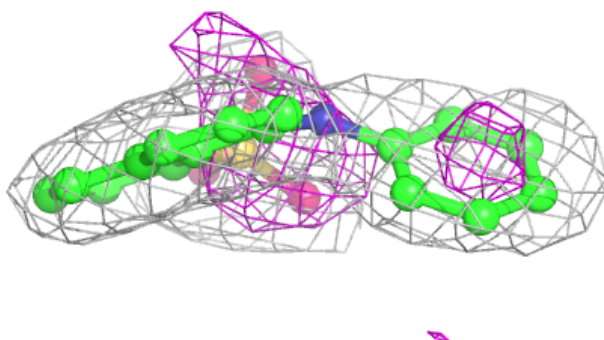
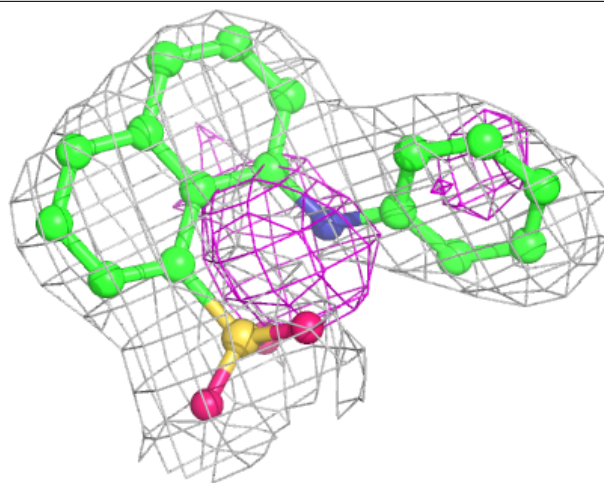
Electron density around 2AN D 203:

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and green (positive)



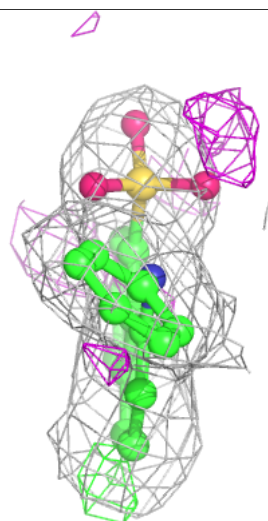
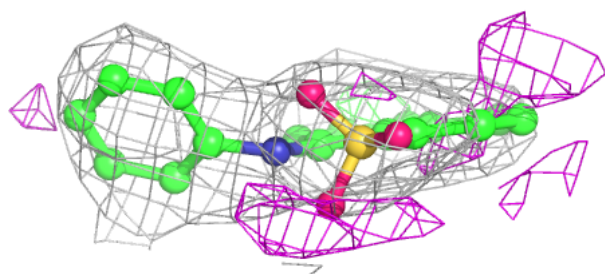
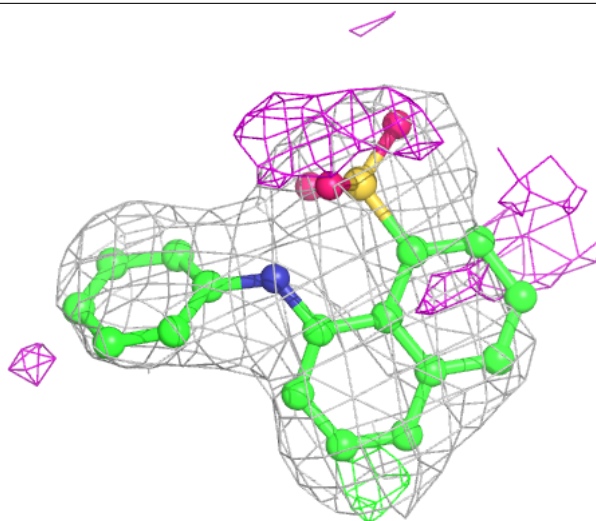
Electron density around 2AN N 201:

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and green (positive)



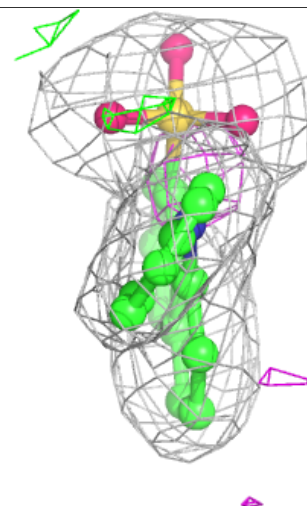
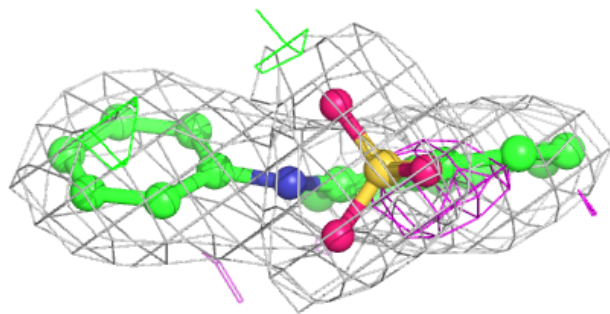
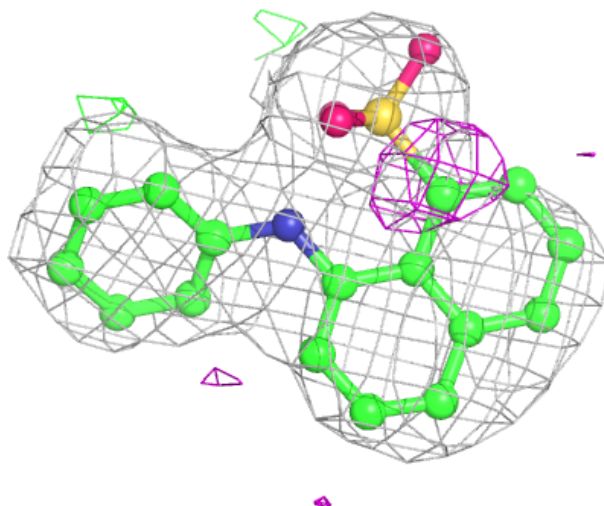
Electron density around 2AN W 201:

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



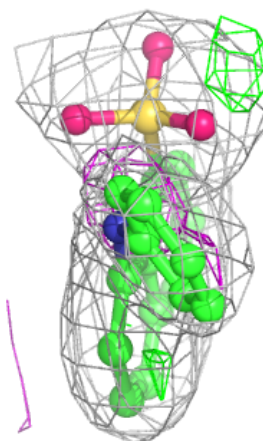
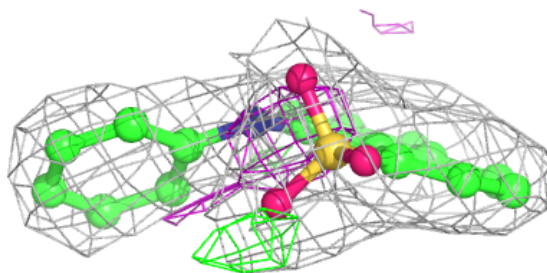
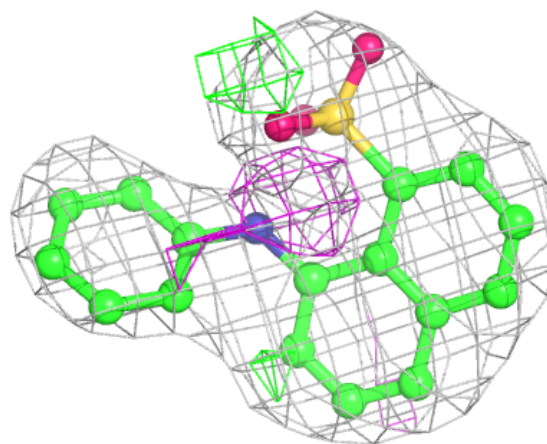
Electron density around 2AN L 204:

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



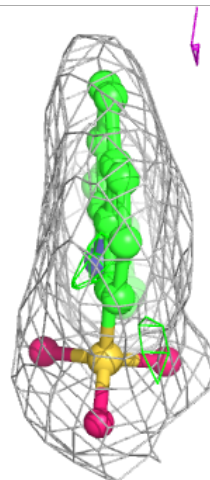
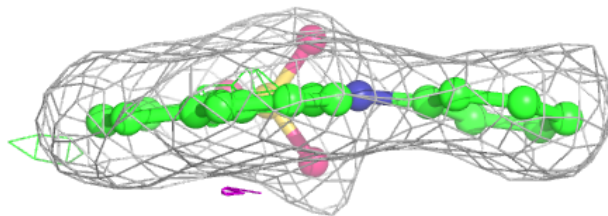
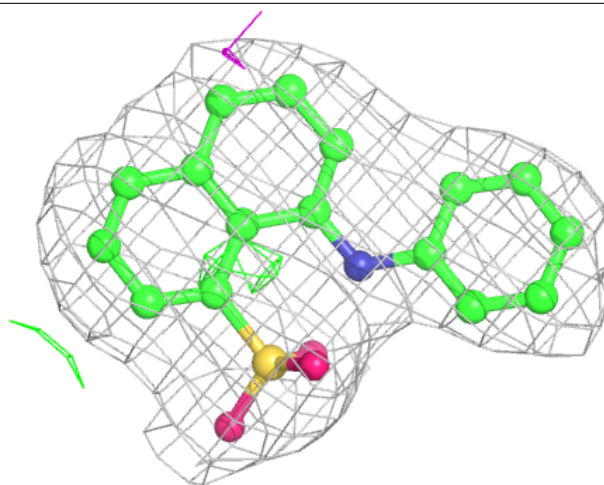
Electron density around 2AN C 201:

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



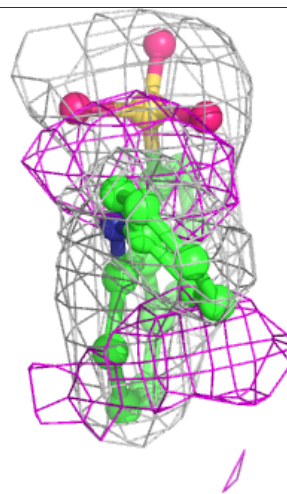
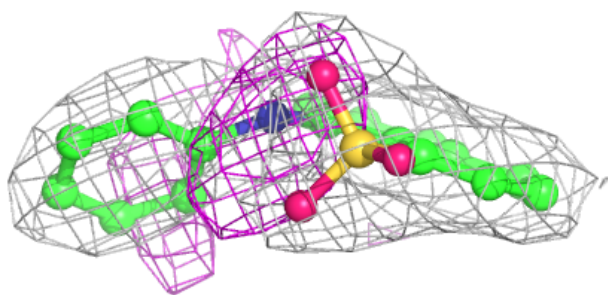
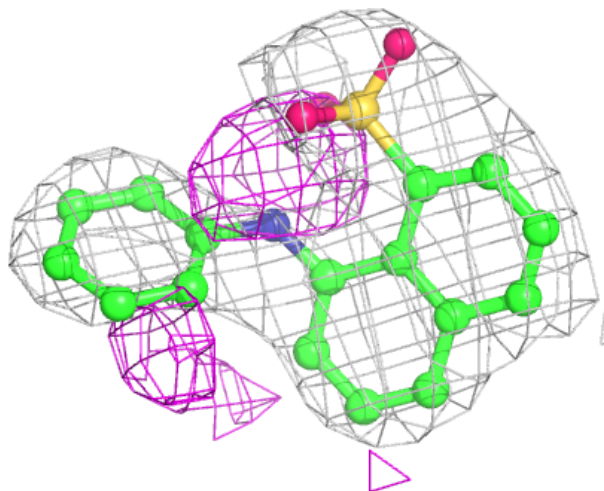
Electron density around 2AN F 201:

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



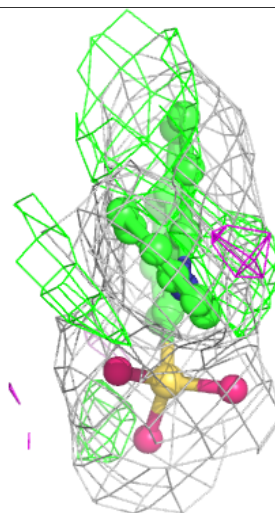
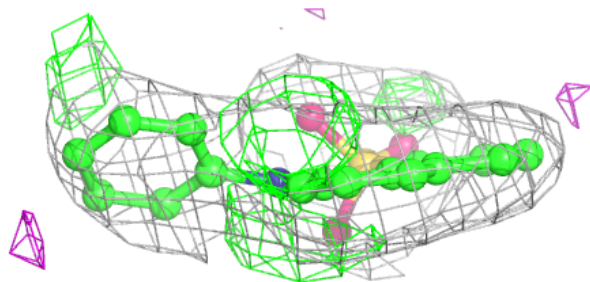
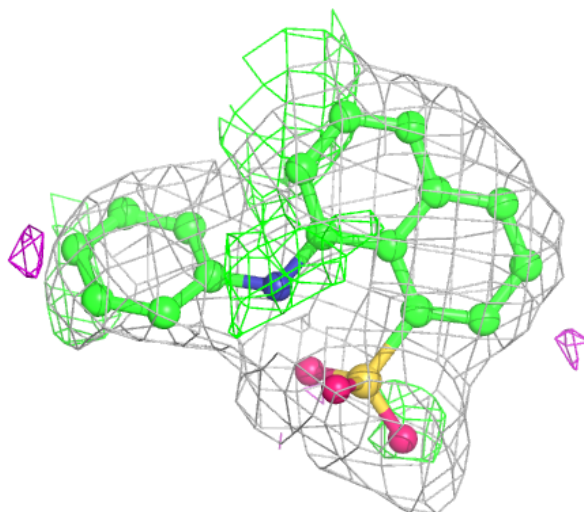
Electron density around 2AN U 202:

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



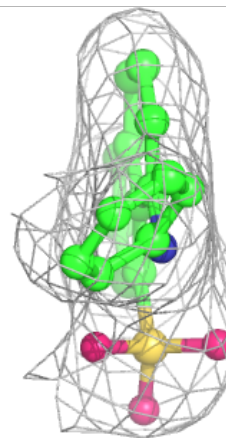
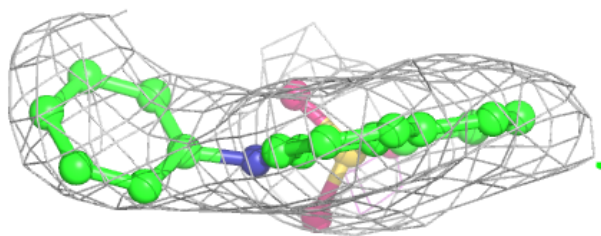
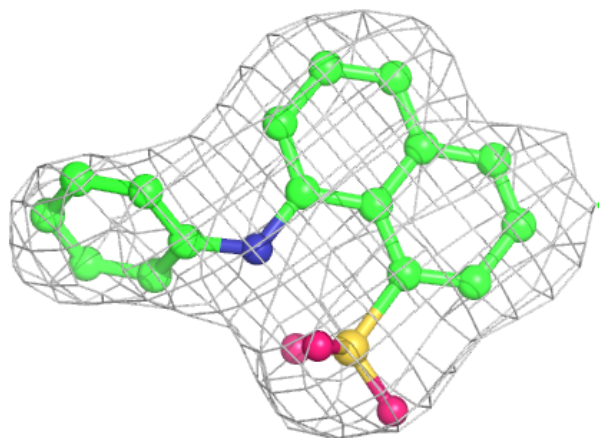
Electron density around 2AN b 203:

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



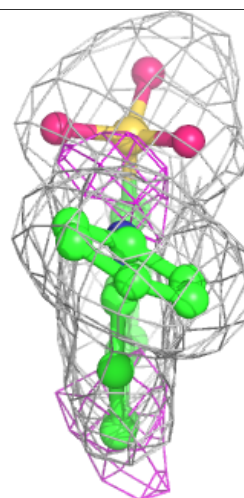
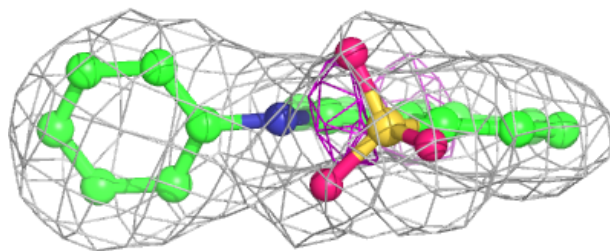
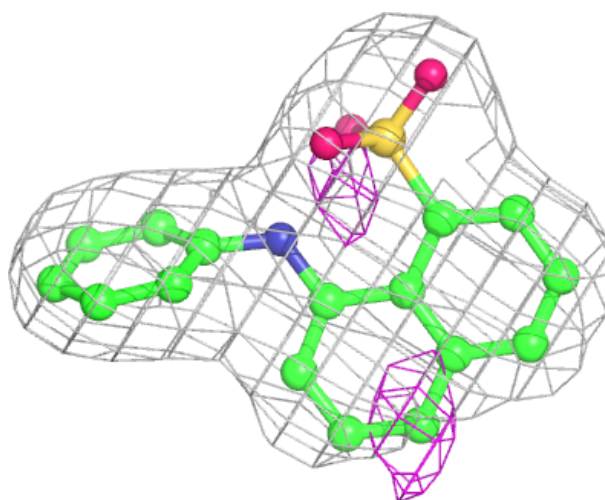
Electron density around 2AN P 202:

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



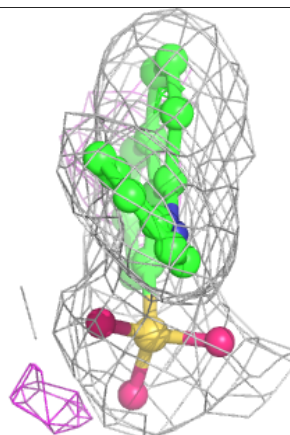
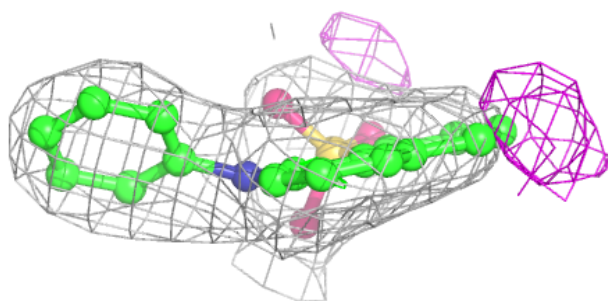
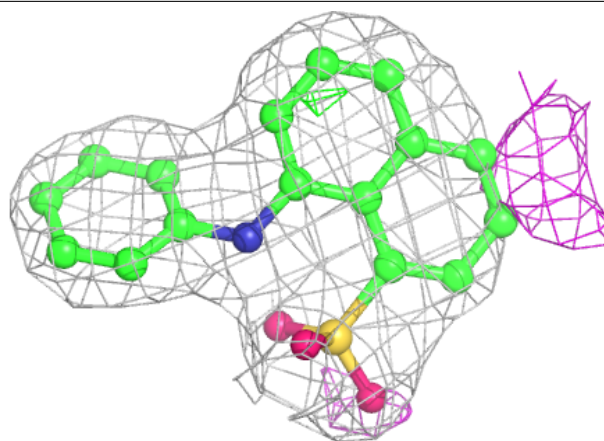
Electron density around 2AN M 202:

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



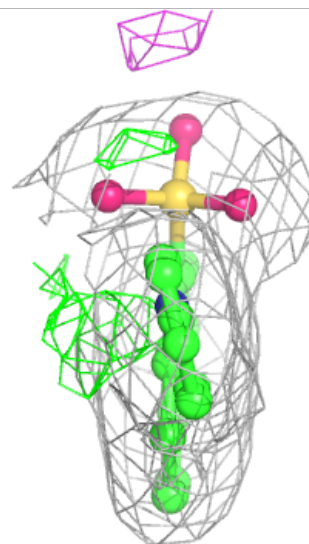
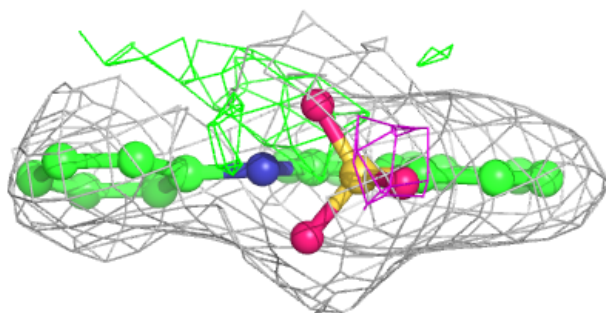
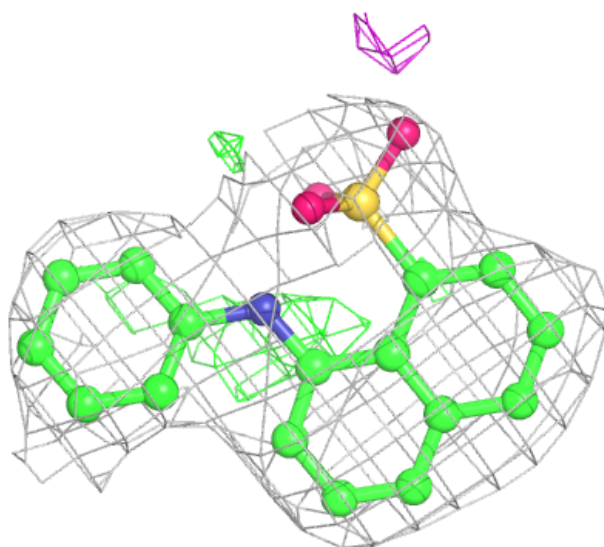
Electron density around 2AN N 204:

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



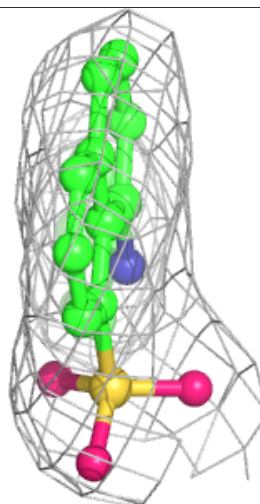
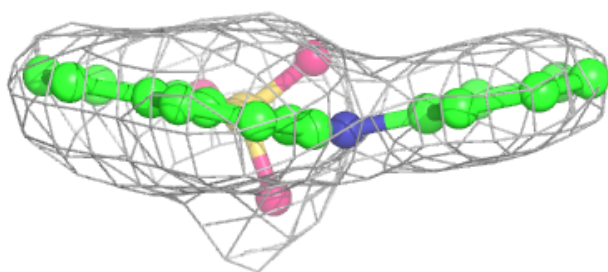
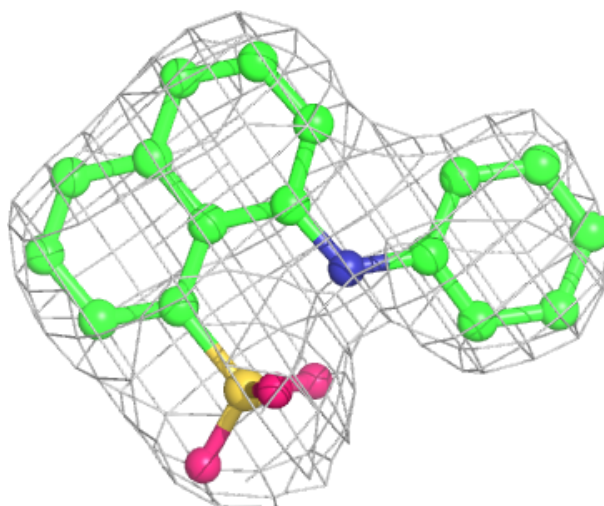
Electron density around 2AN K 203:

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



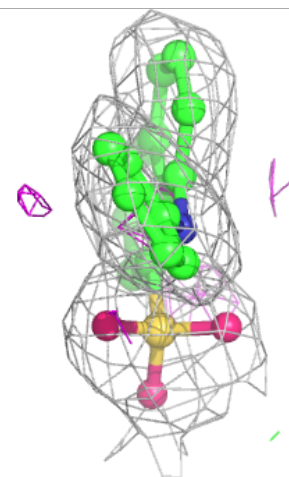
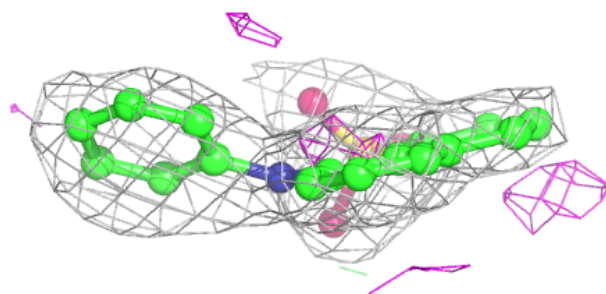
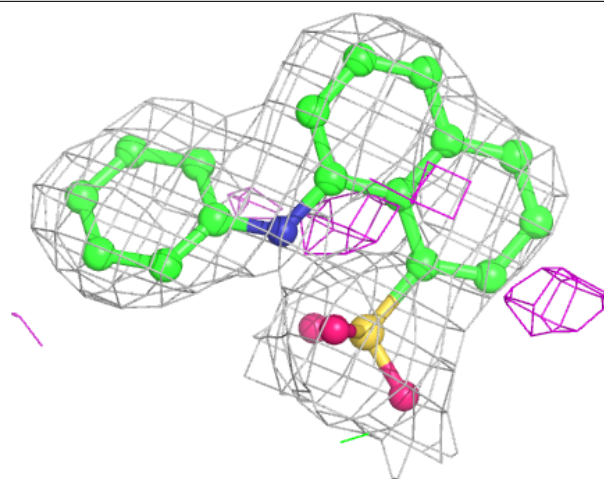
Electron density around 2AN M 203:

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



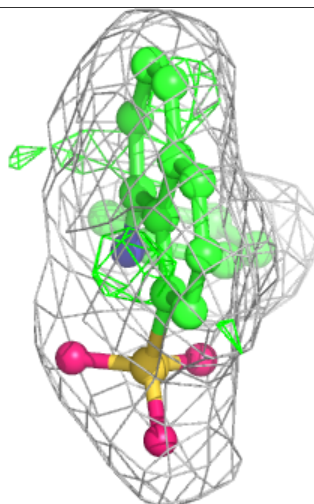
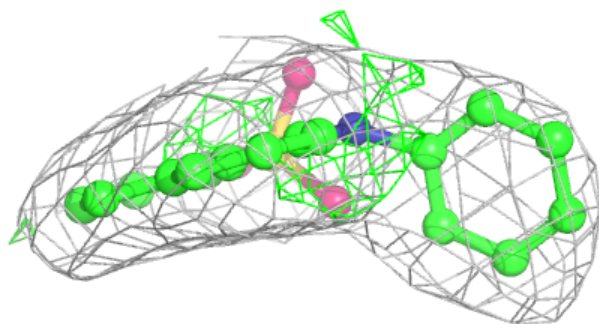
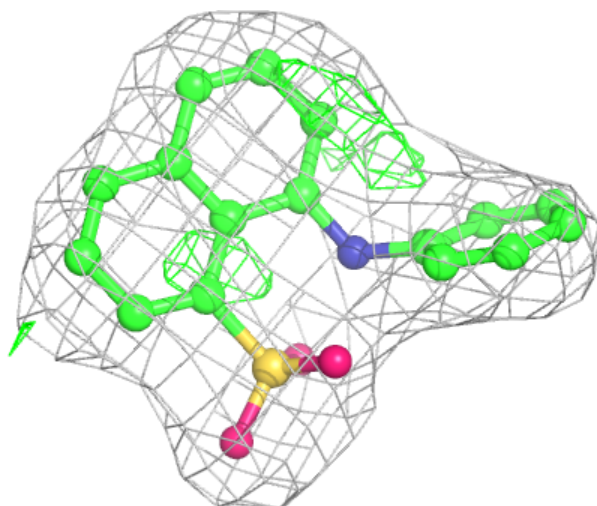
Electron density around 2AN J 201:

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



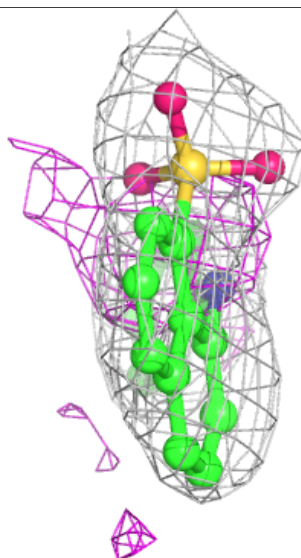
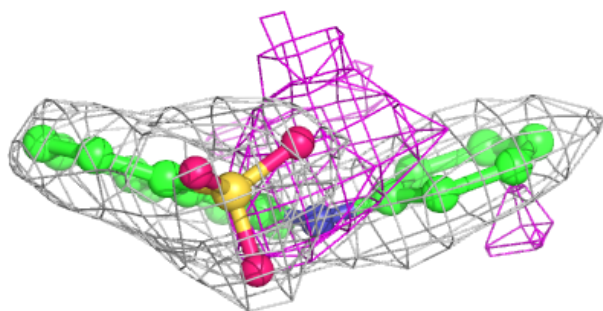
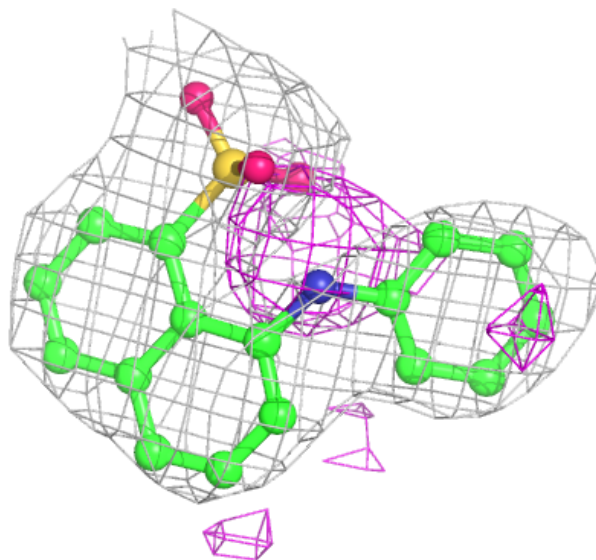
Electron density around 2AN C 203:

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



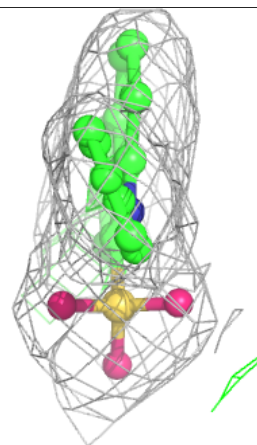
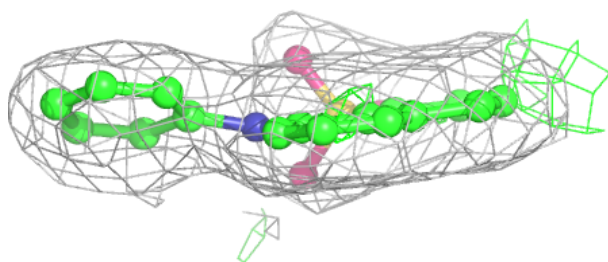
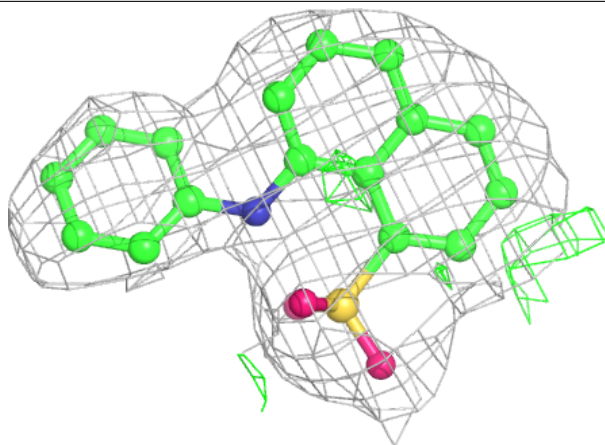
Electron density around 2AN S 201:

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



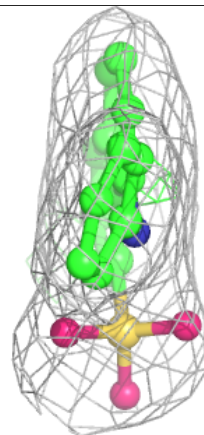
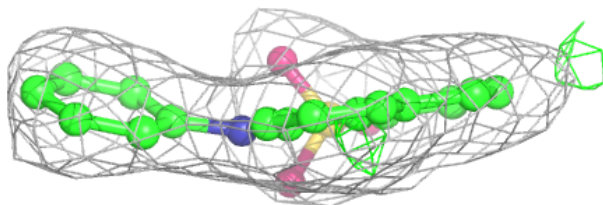
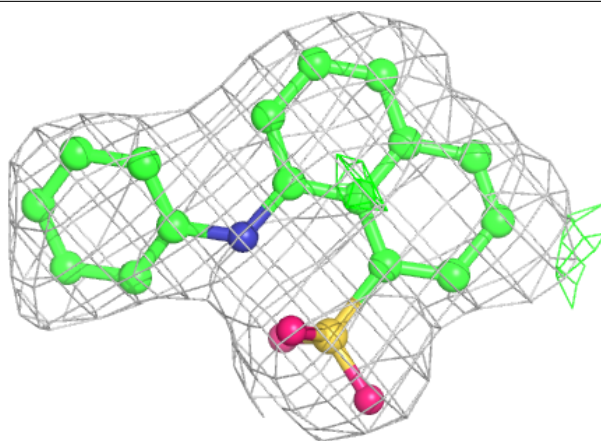
Electron density around 2AN a 201:

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



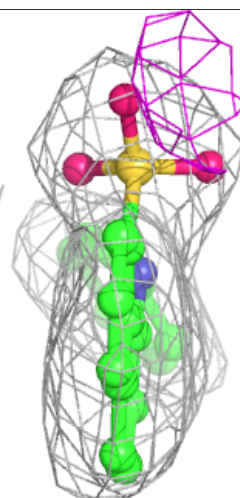
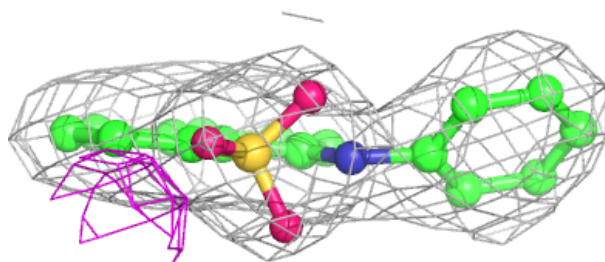
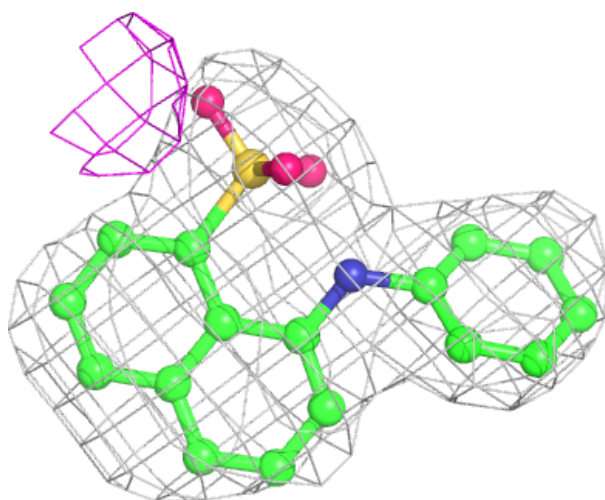
Electron density around 2AN K 202:

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



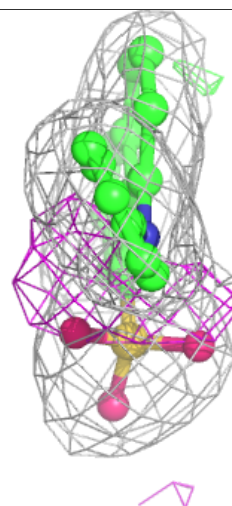
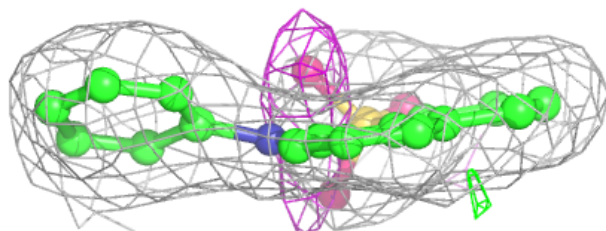
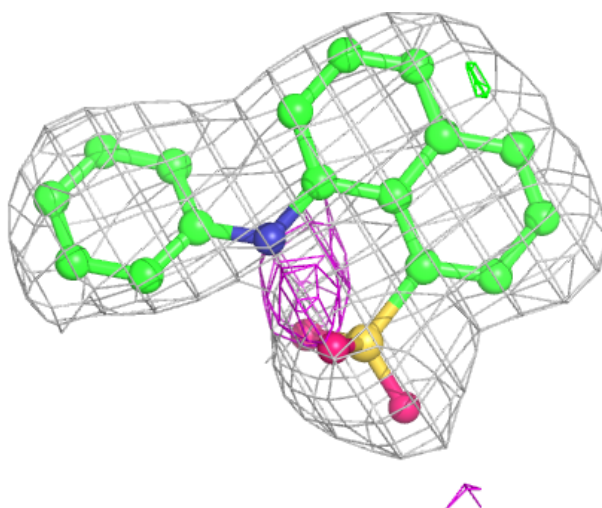
Electron density around 2AN B 205:

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



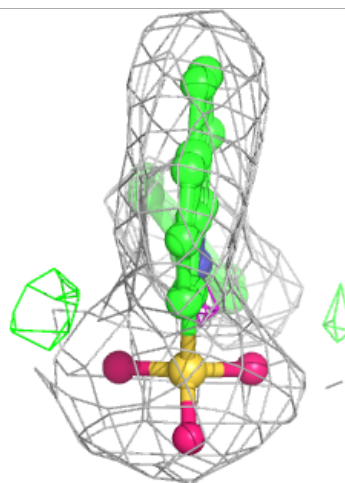
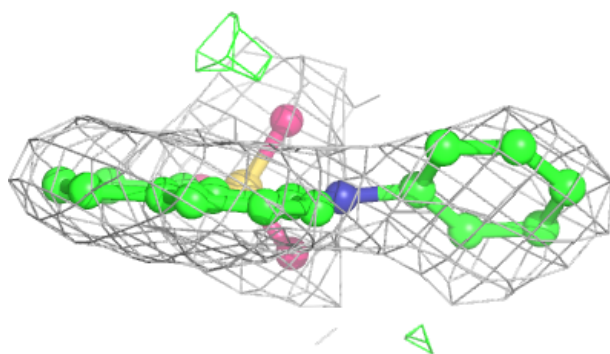
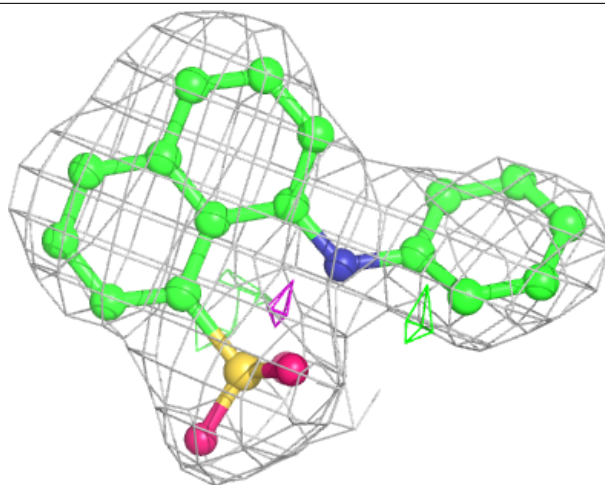
Electron density around 2AN O 201:

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



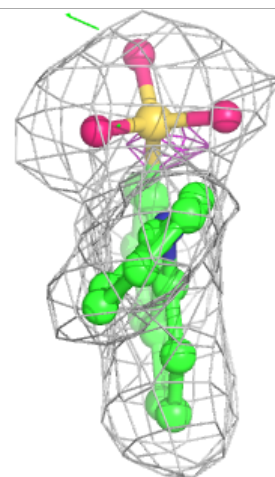
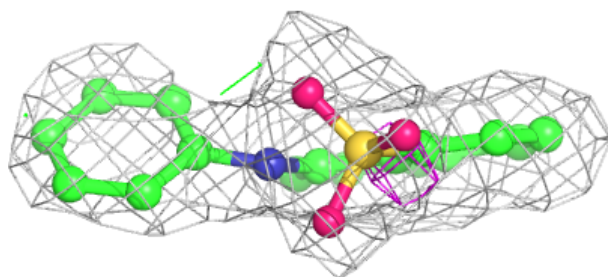
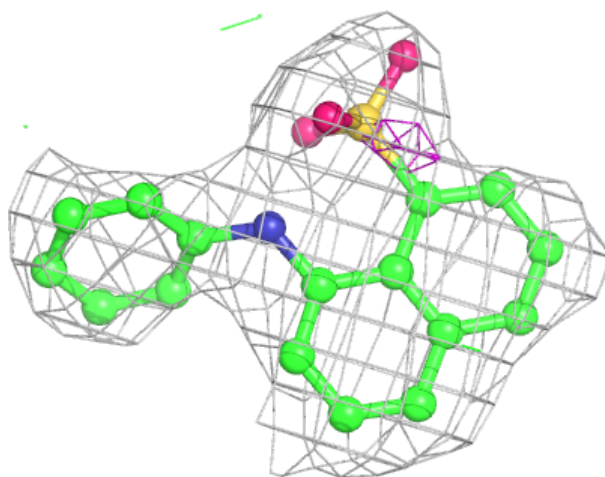
Electron density around 2AN L 205:

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



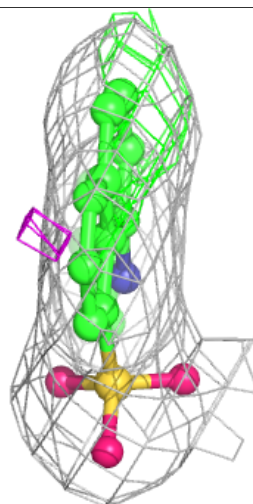
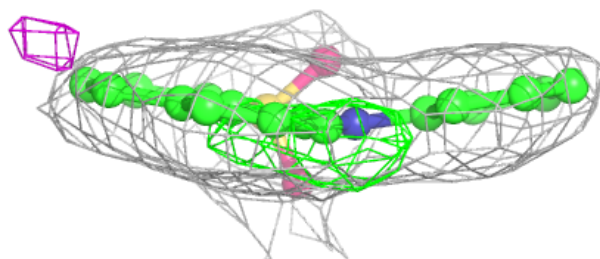
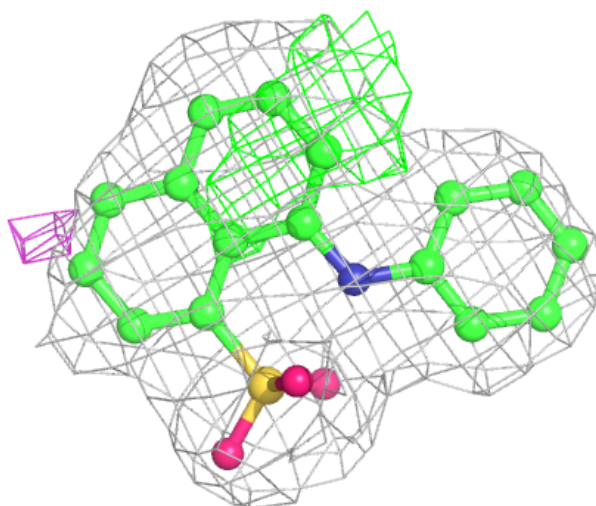
Electron density around 2AN Y 204:

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



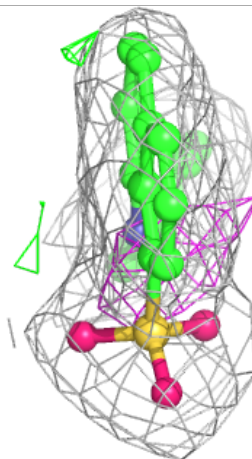
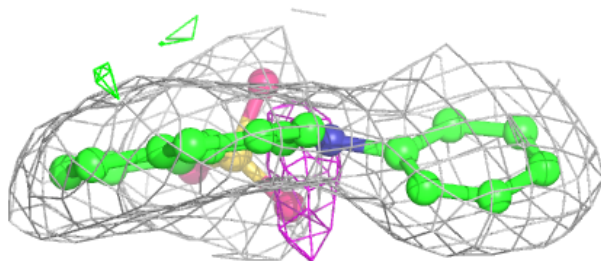
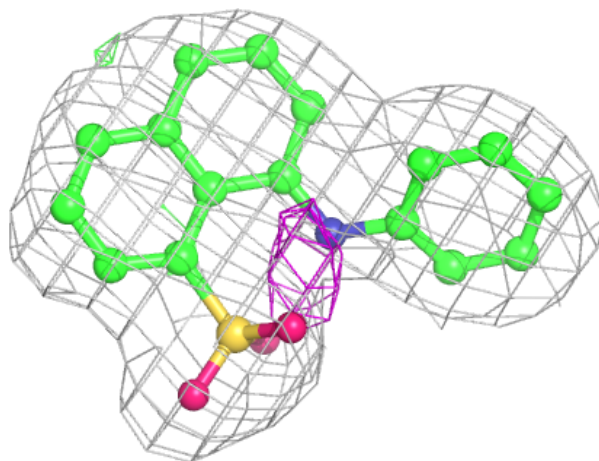
Electron density around 2AN E 203:

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



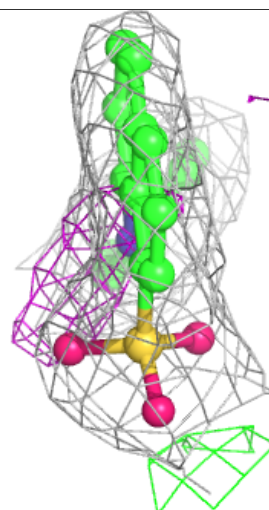
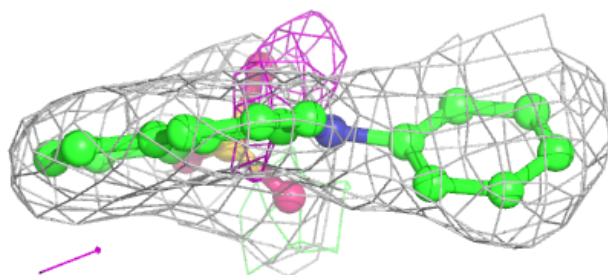
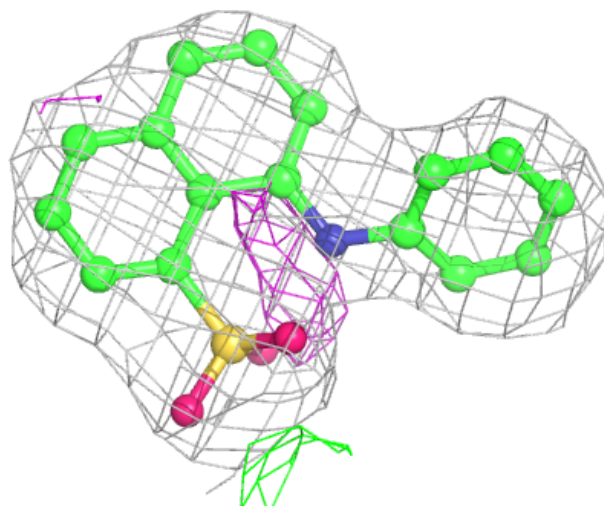
Electron density around 2AN Y 202:

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



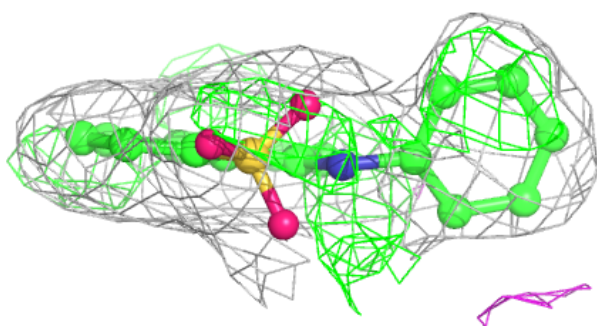
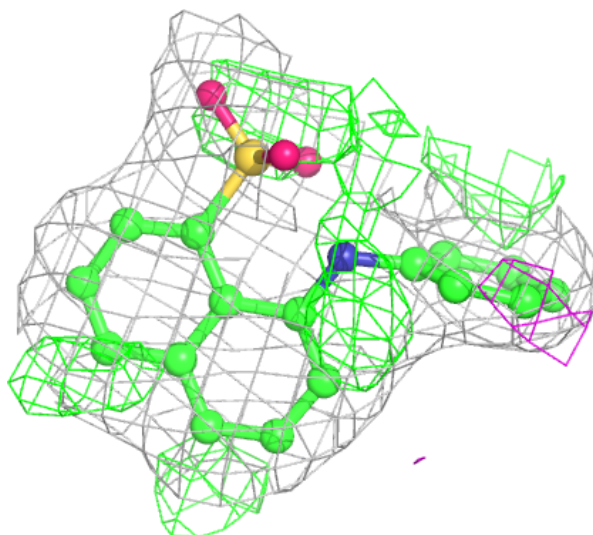
Electron density around 2AN A 203:

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



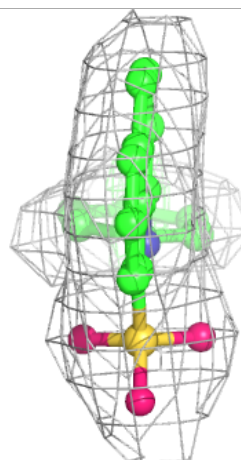
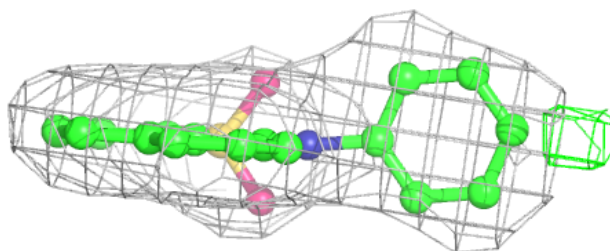
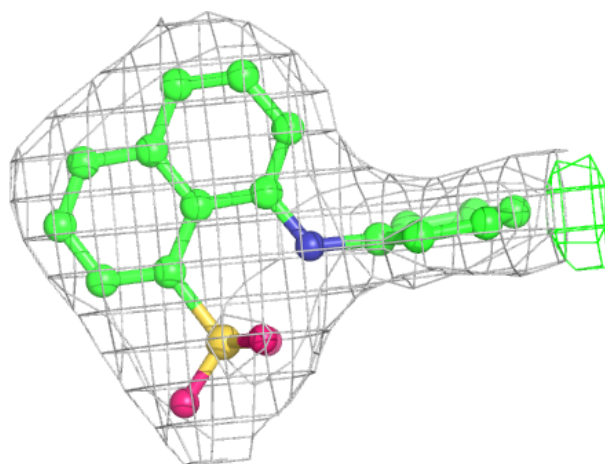
Electron density around 2AN R 204:

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



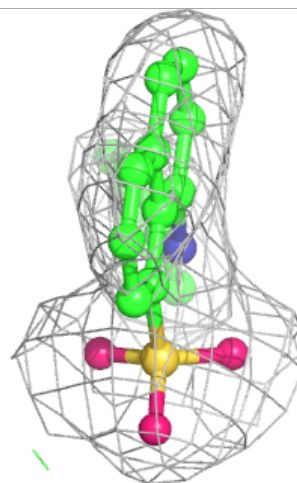
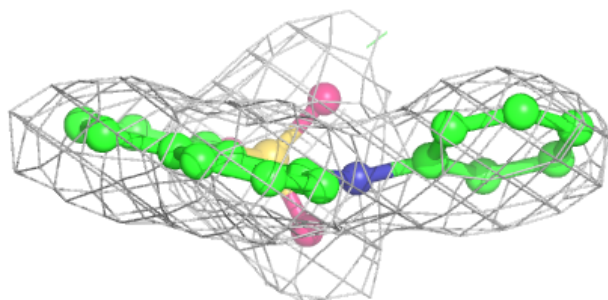
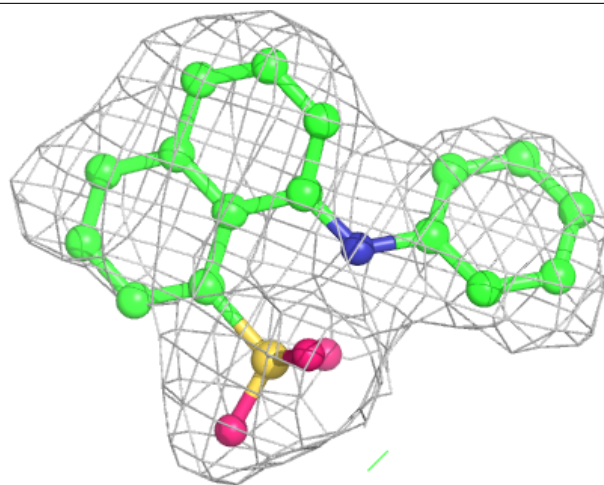
Electron density around 2AN U 205:

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



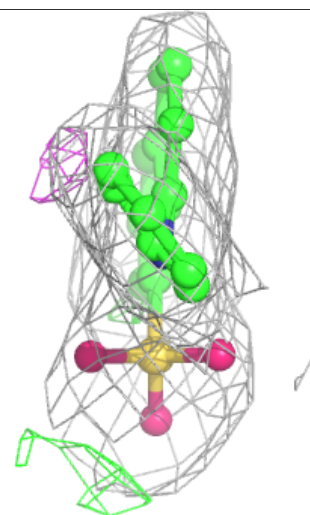
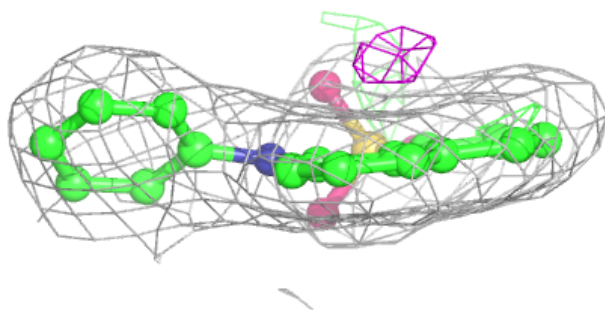
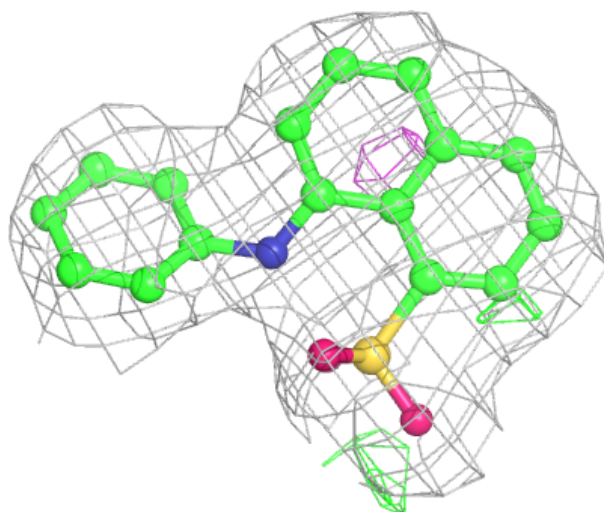
Electron density around 2AN B 204:

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



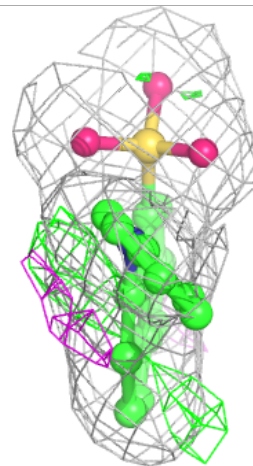
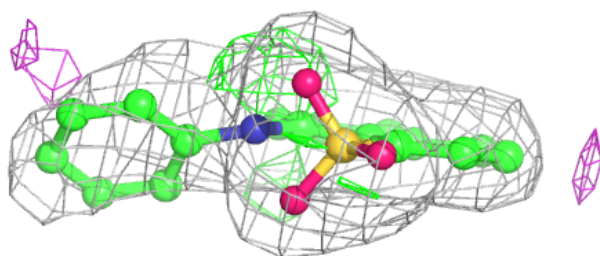
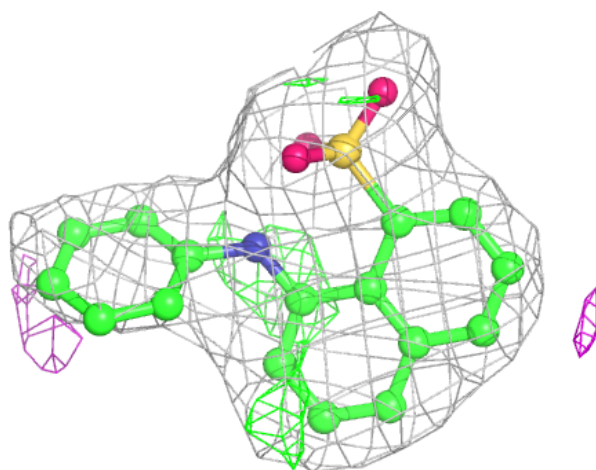
Electron density around 2AN B 202:

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



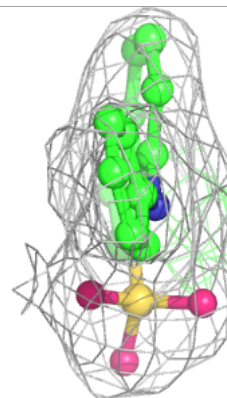
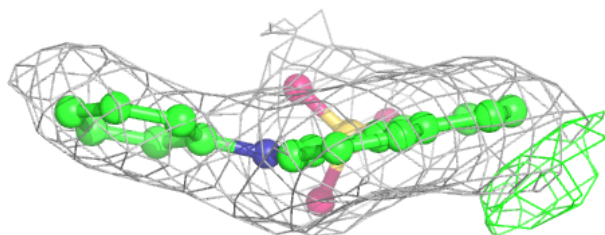
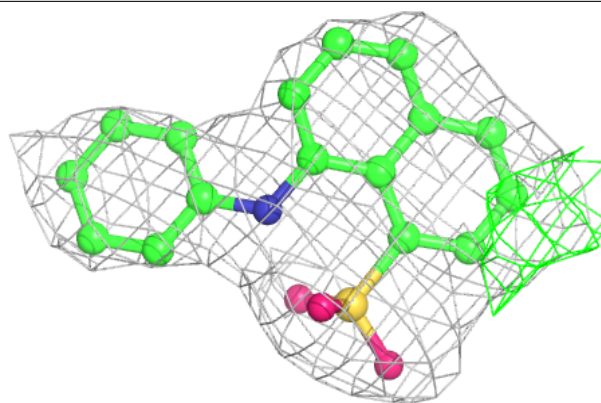
Electron density around 2AN X 203:

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



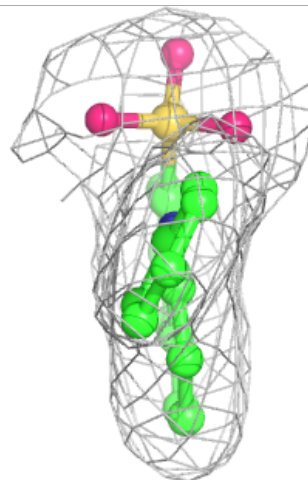
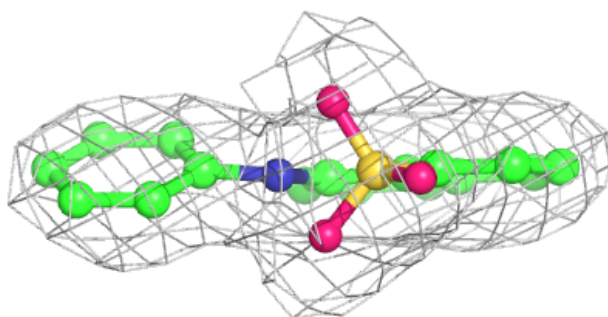
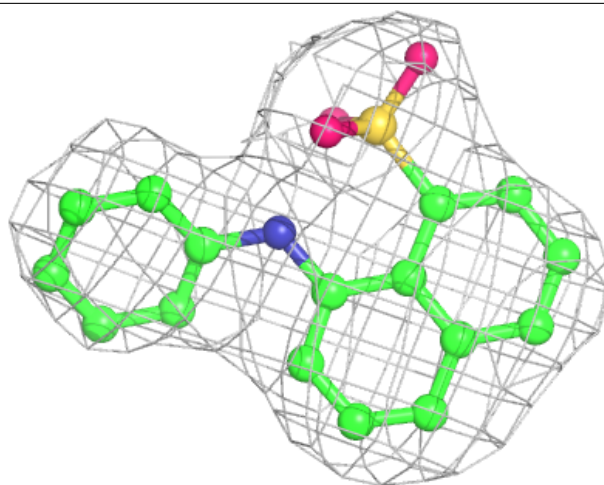
Electron density around 2AN Z 203:

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



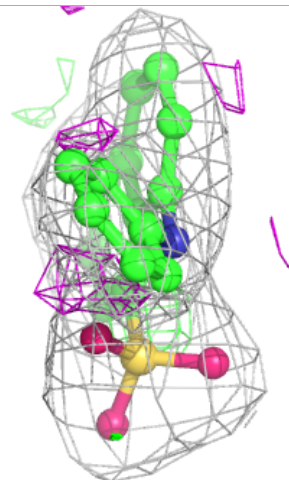
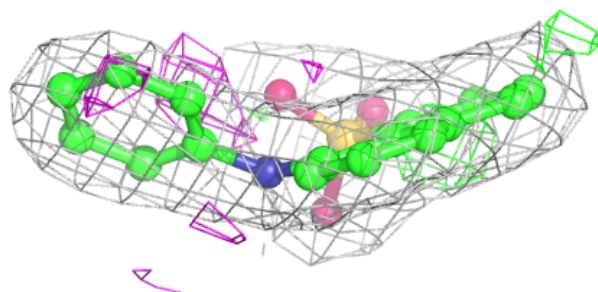
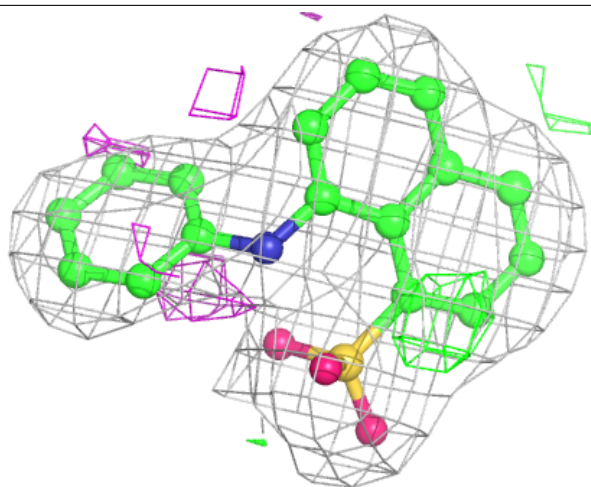
Electron density around 2AN U 203:

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



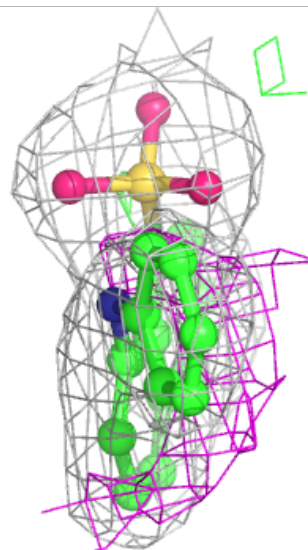
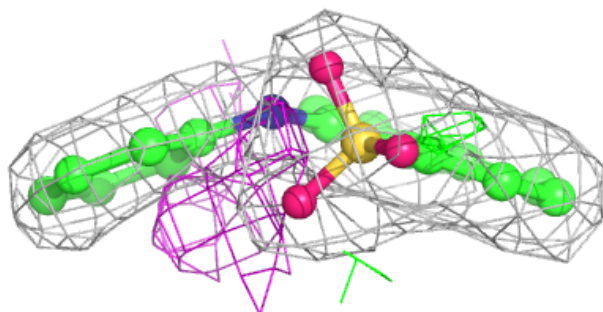
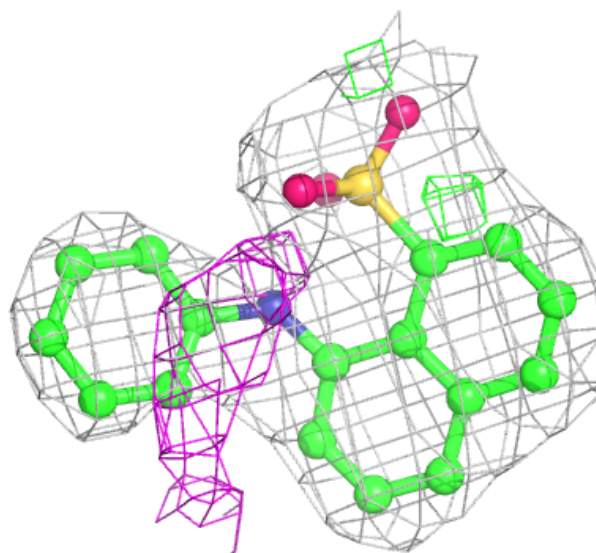
Electron density around 2AN E 201:

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



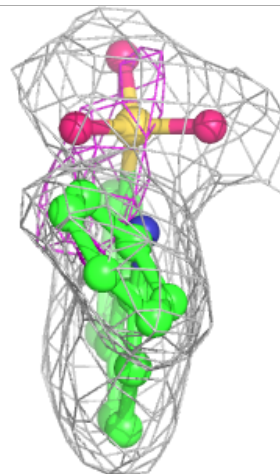
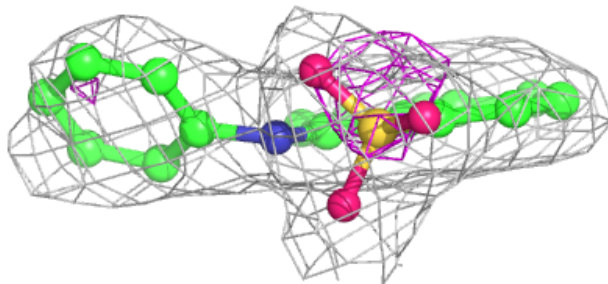
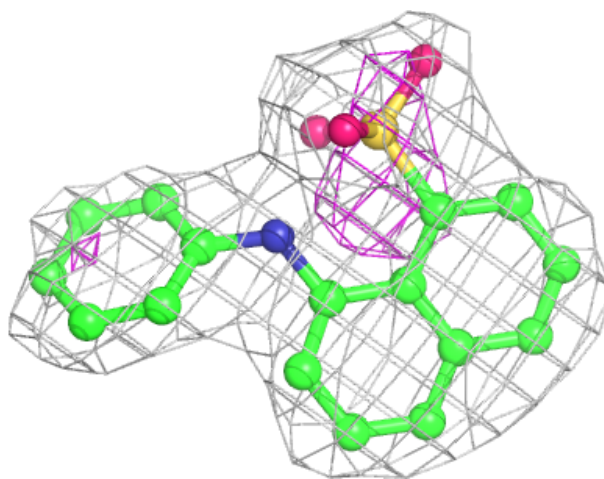
Electron density around 2AN R 202:

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



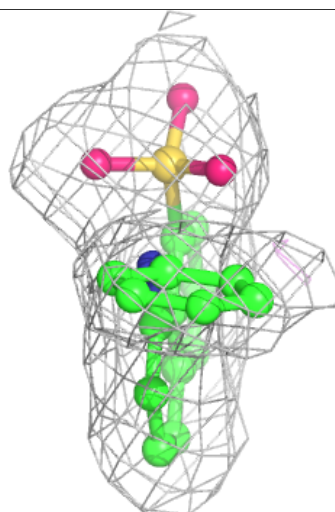
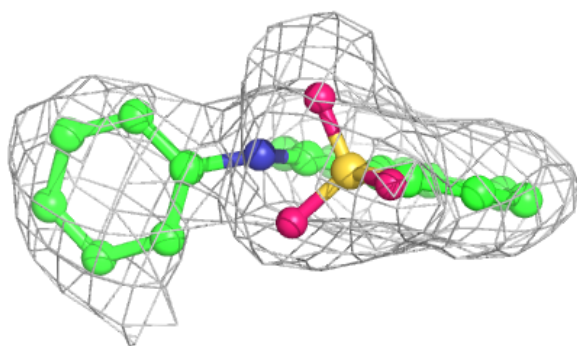
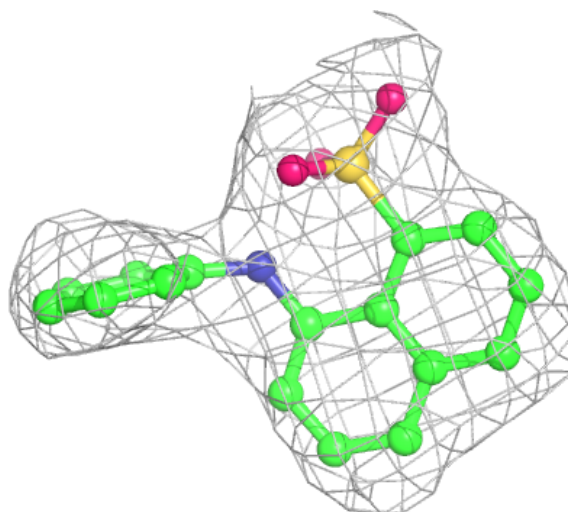
Electron density around 2AN H 201:

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



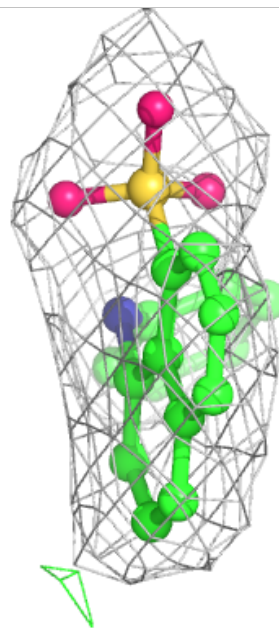
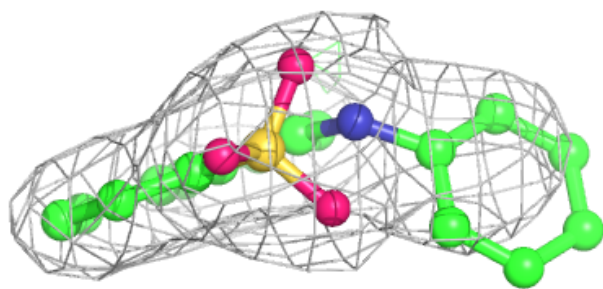
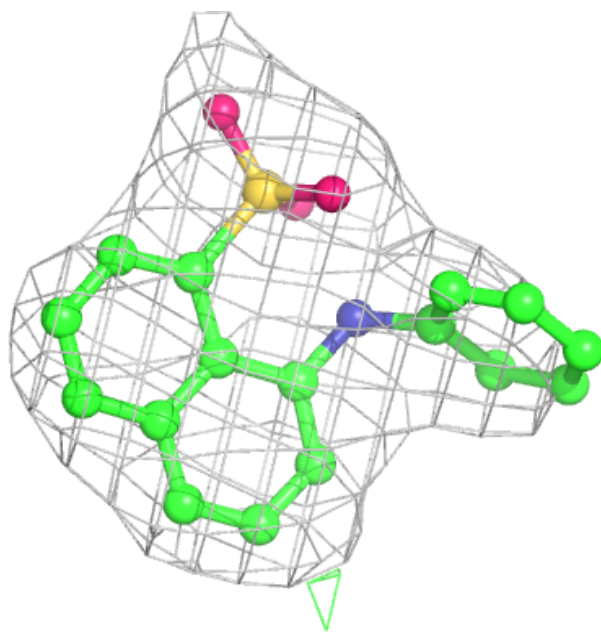
Electron density around 2AN V 201:

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



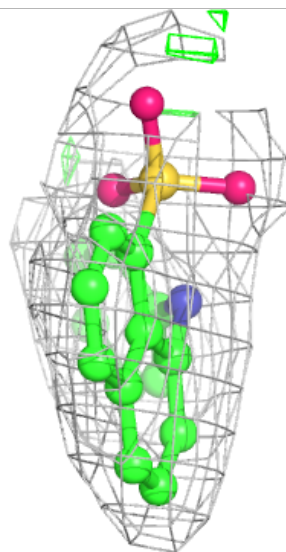
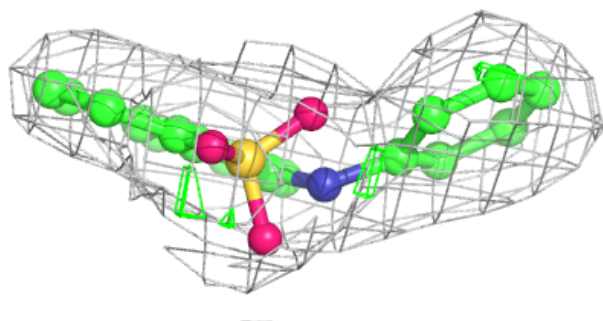
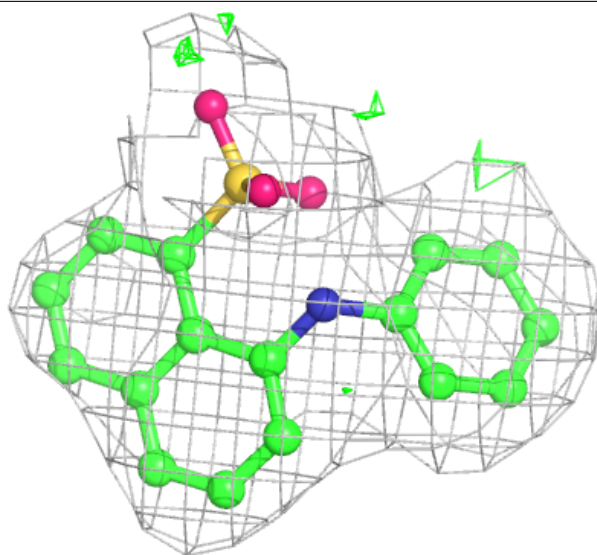
Electron density around 2AN V 202:

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



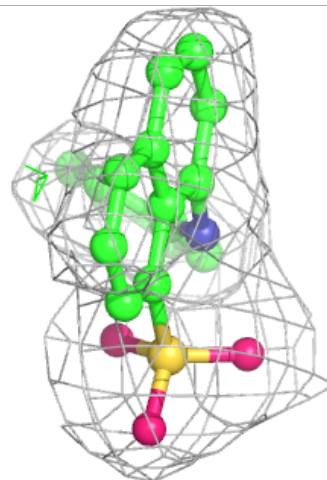
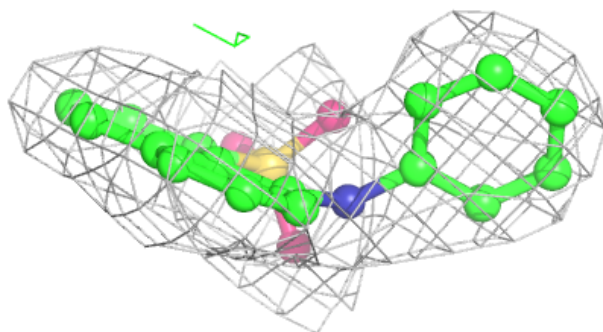
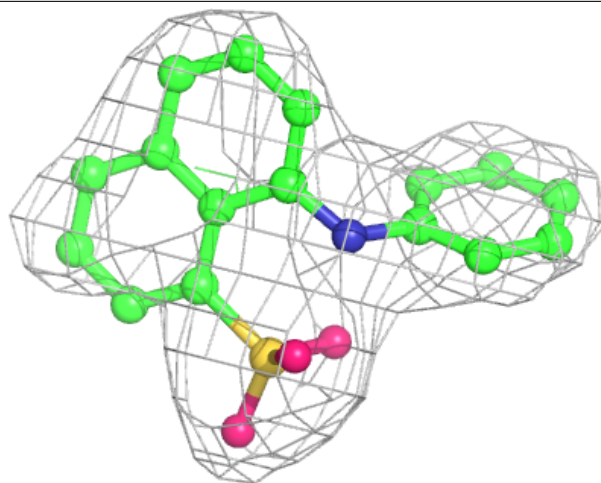
Electron density around 2AN C 204:

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



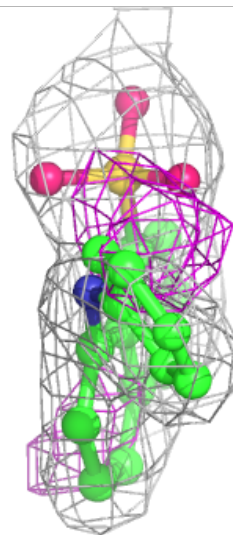
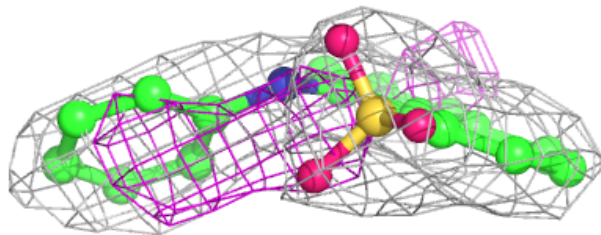
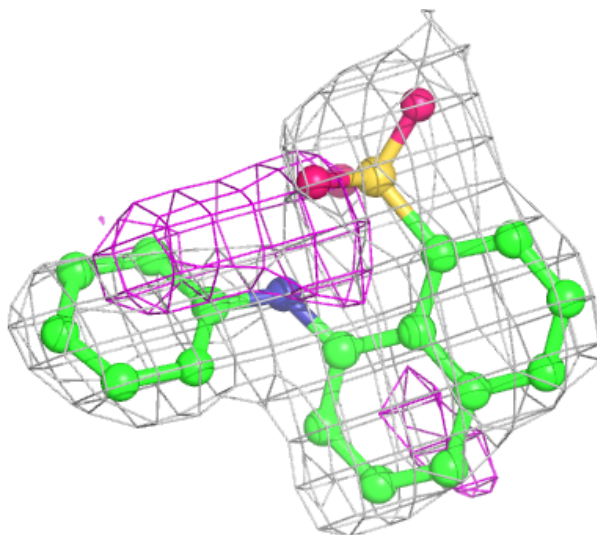
Electron density around 2AN Q 202:

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



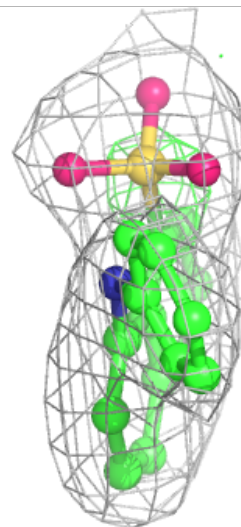
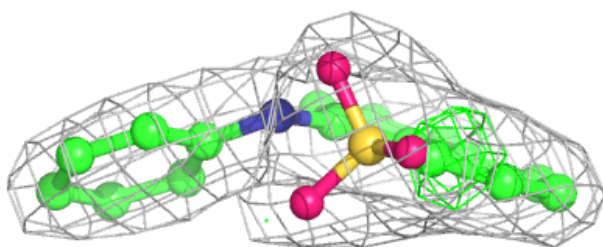
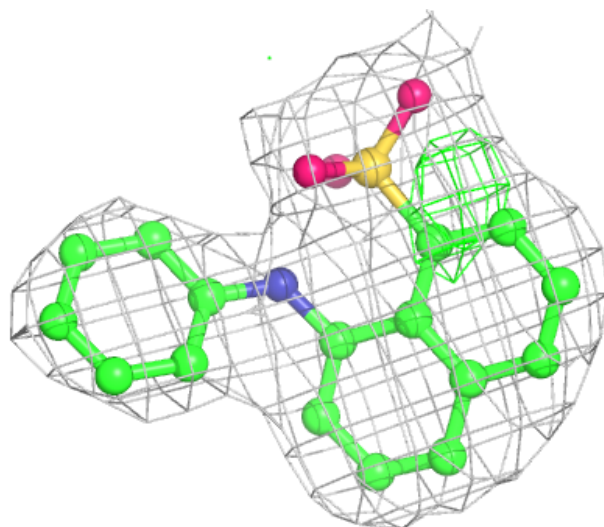
Electron density around 2AN X 201:

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



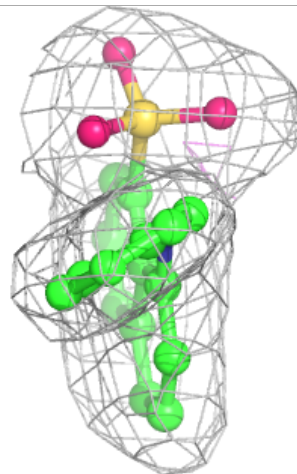
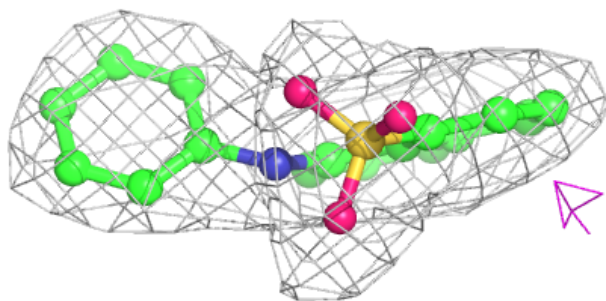
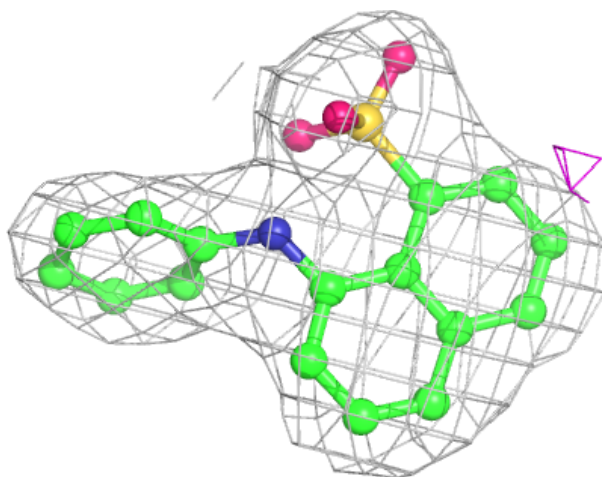
Electron density around 2AN b 202:

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



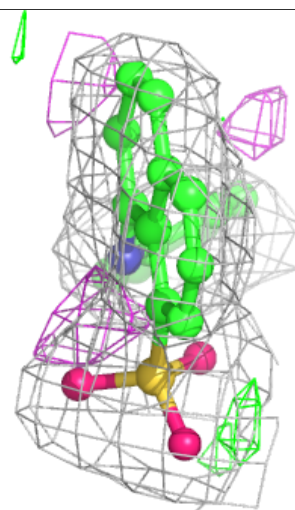
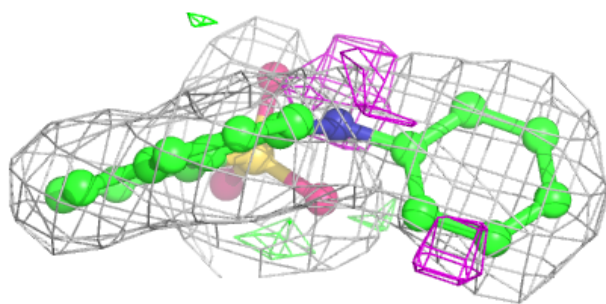
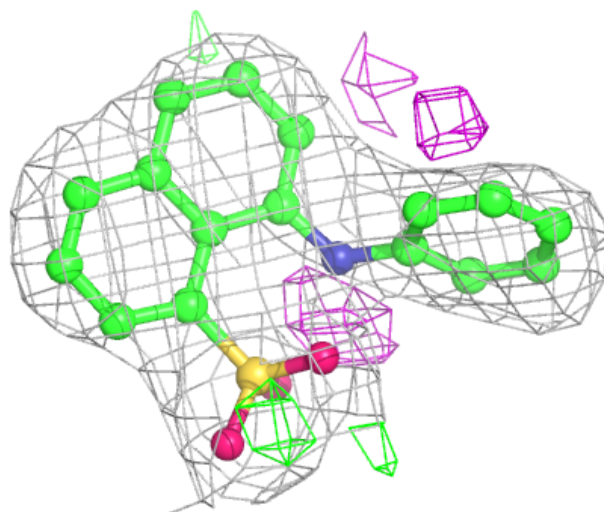
Electron density around 2AN U 204:

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



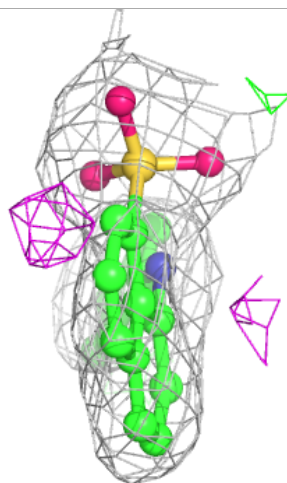
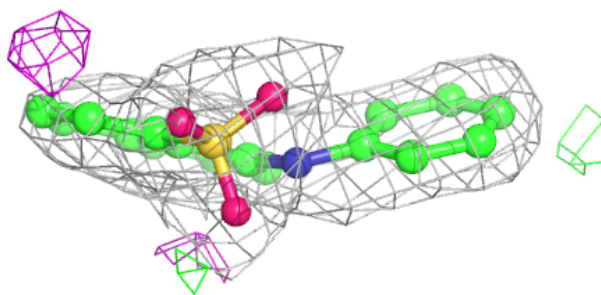
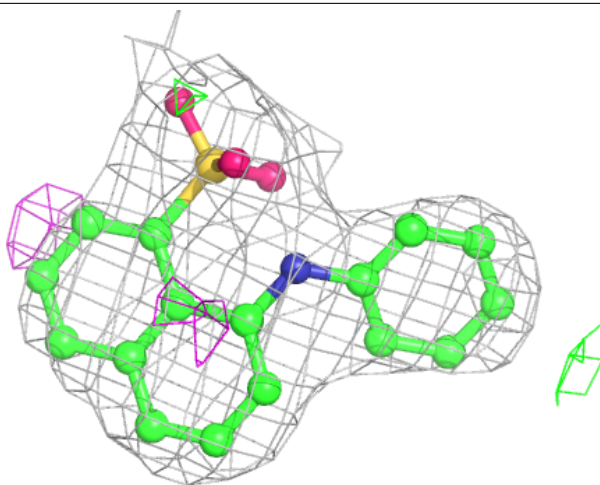
Electron density around 2AN A 202:

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



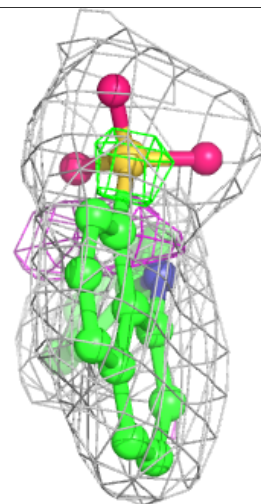
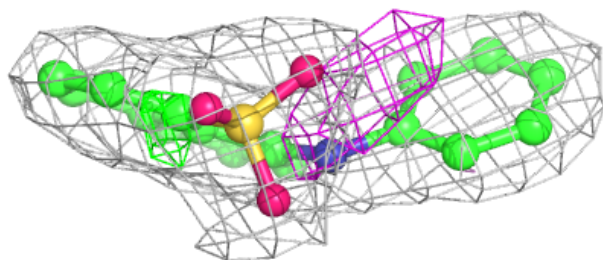
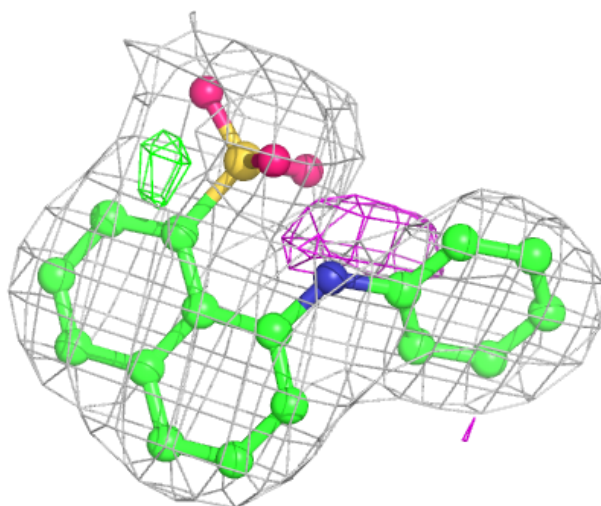
Electron density around 2AN P 201:

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



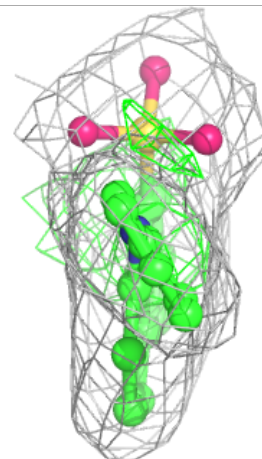
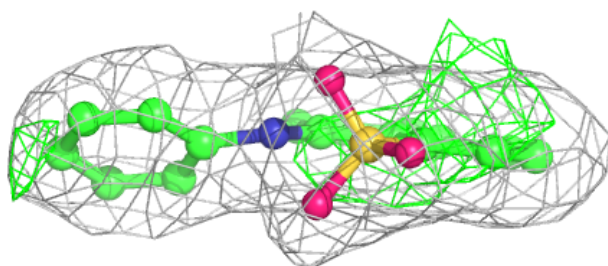
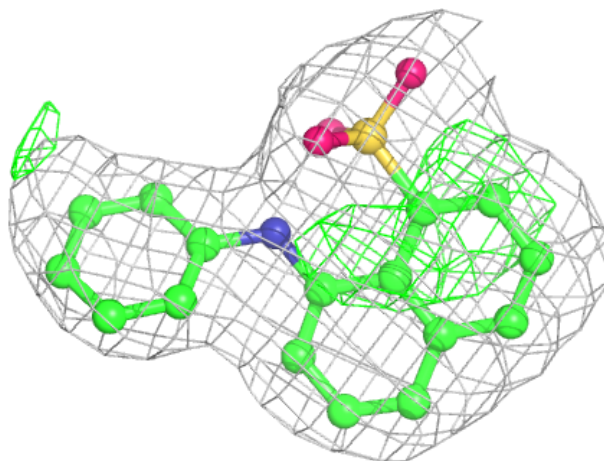
Electron density around 2AN Y 201:

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



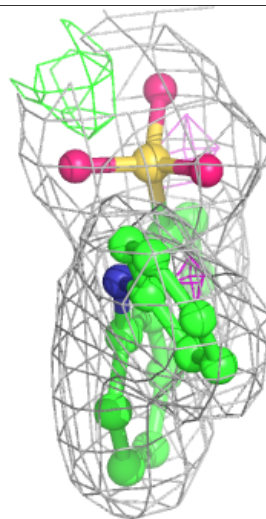
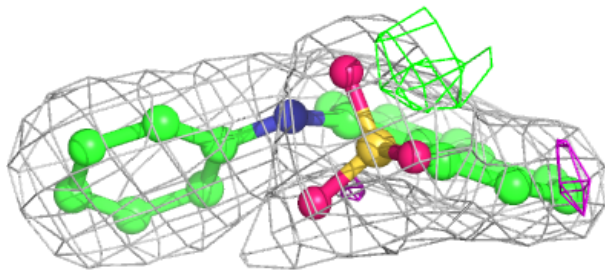
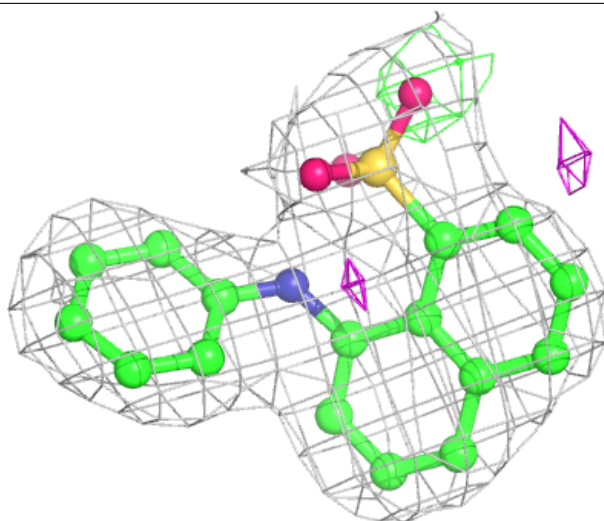
Electron density around 2AN J 202:

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



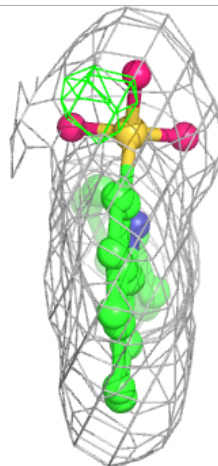
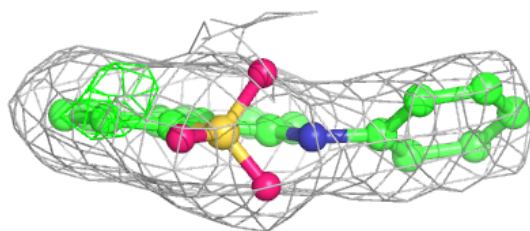
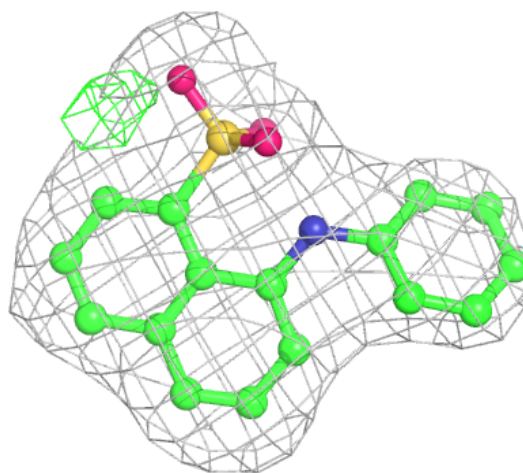
Electron density around 2AN K 201:

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



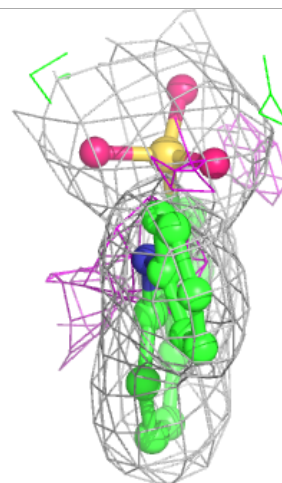
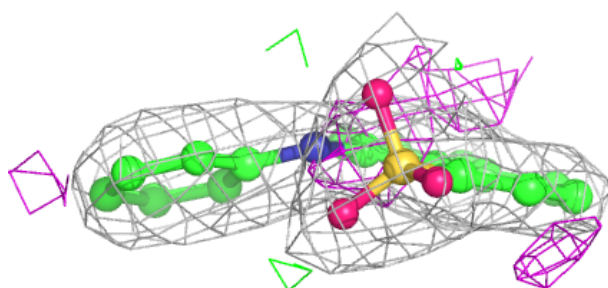
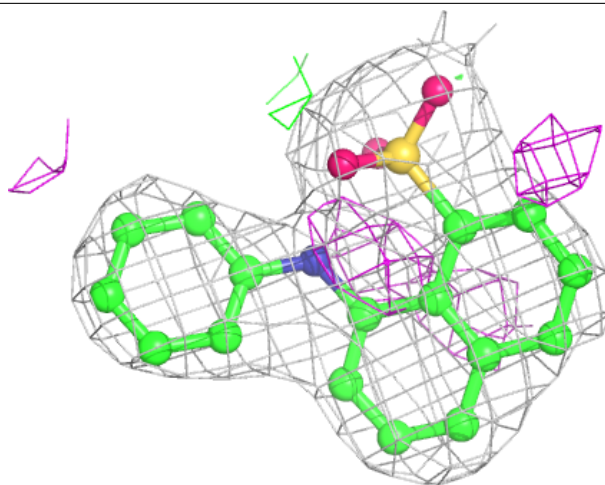
Electron density around 2AN A 201:

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



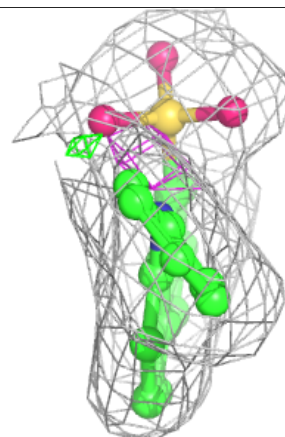
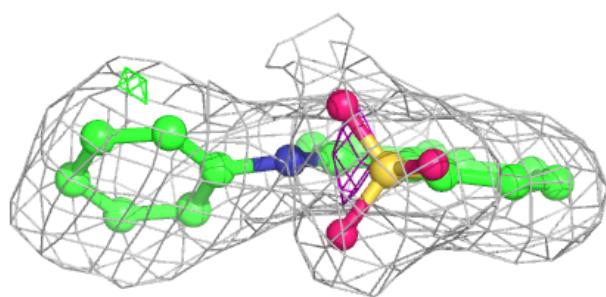
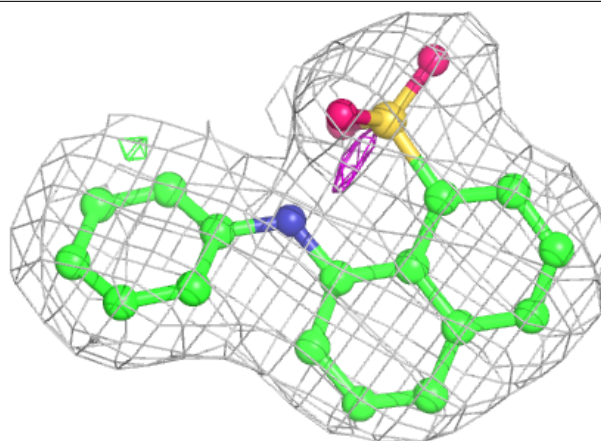
Electron density around 2AN Z 201:

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



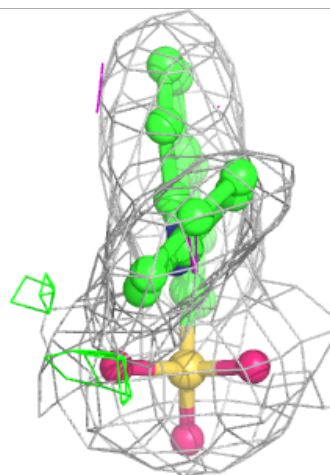
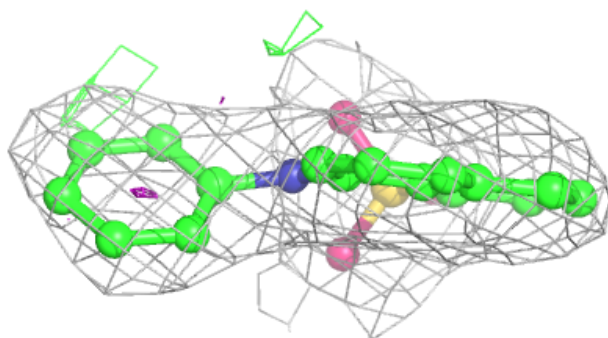
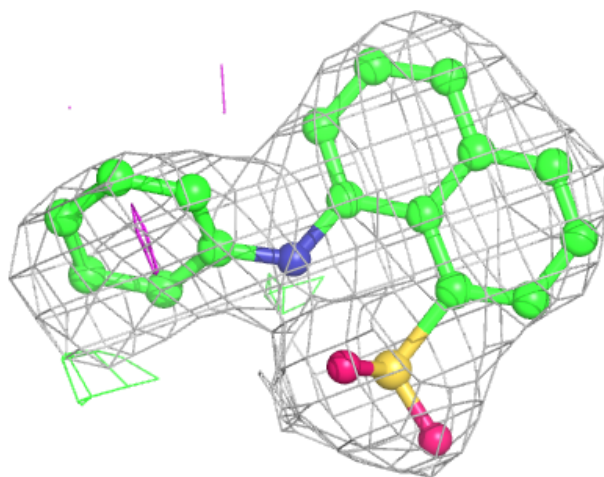
Electron density around 2AN L 202:

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



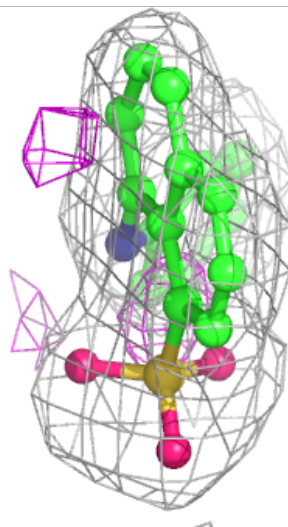
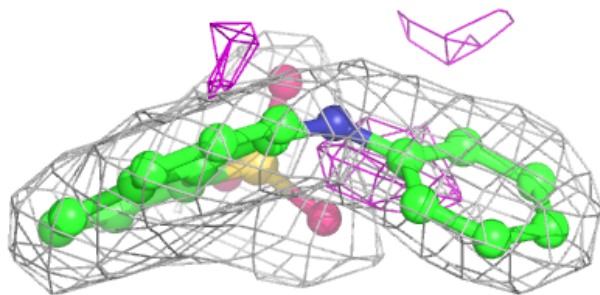
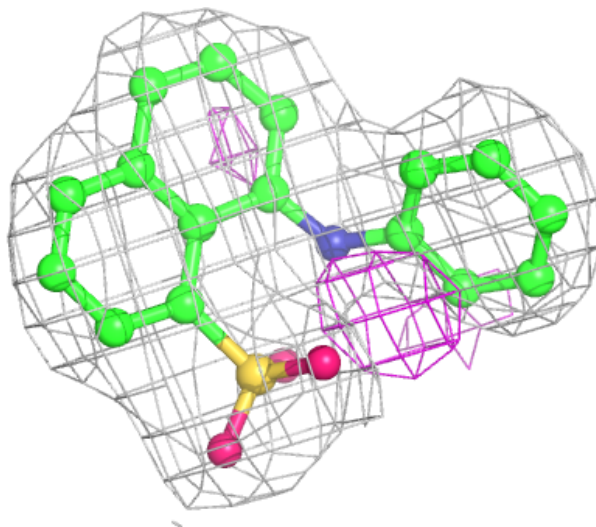
Electron density around 2AN B 203:

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



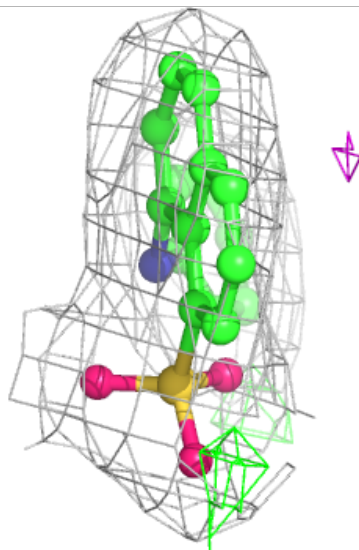
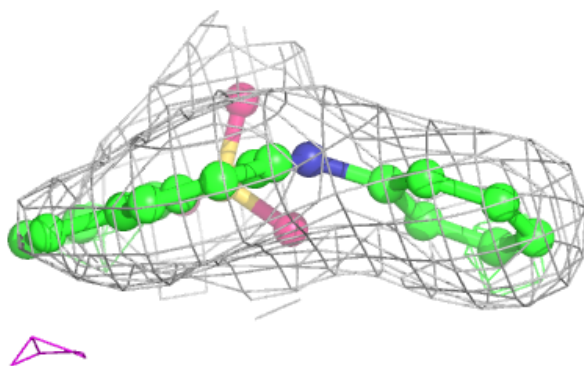
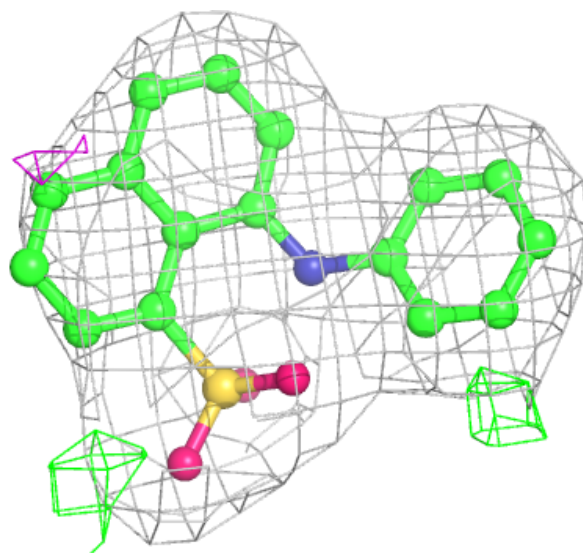
Electron density around 2AN I 202:

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



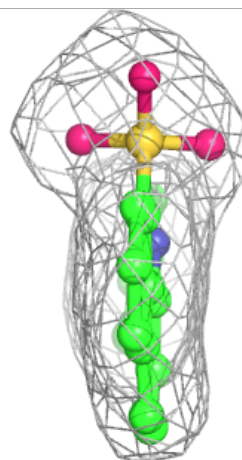
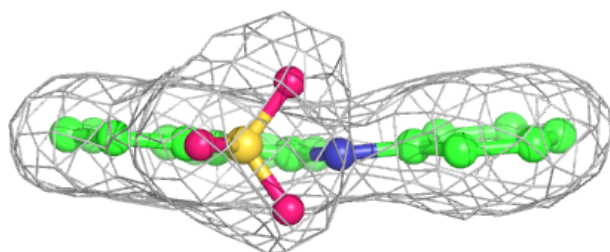
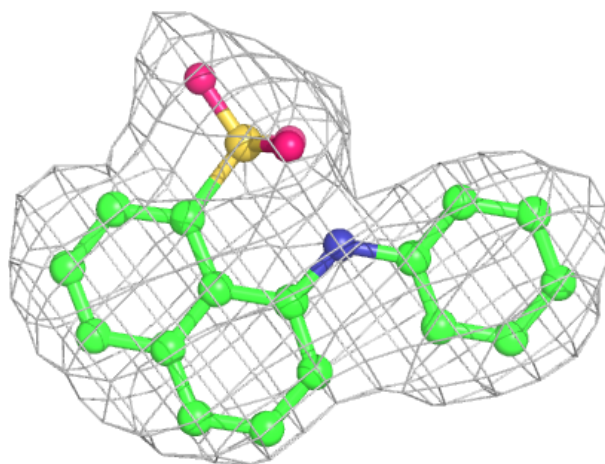
Electron density around 2AN E 205:

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



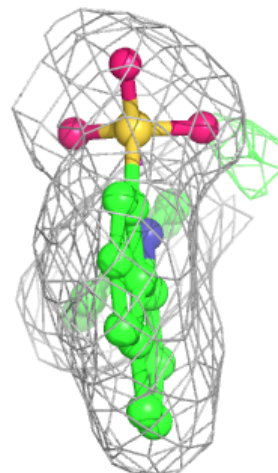
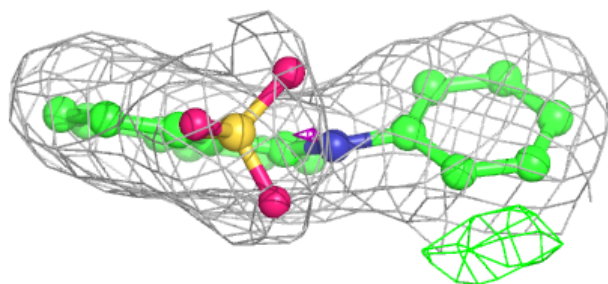
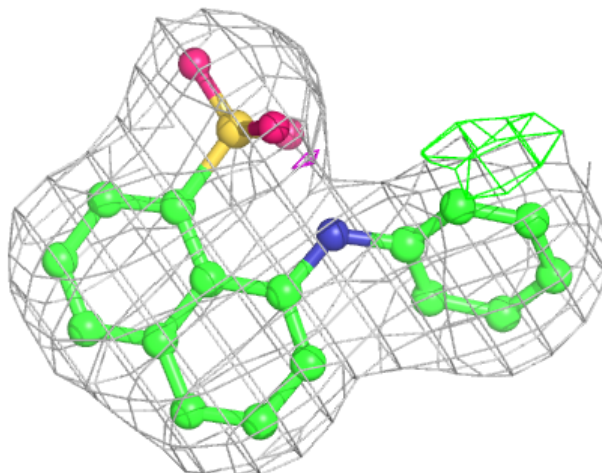
Electron density around 2AN D 202:

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



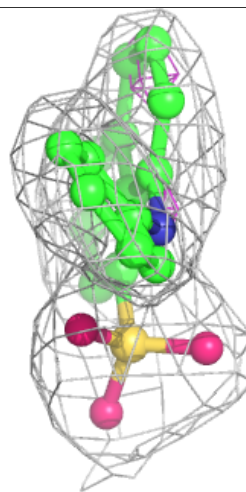
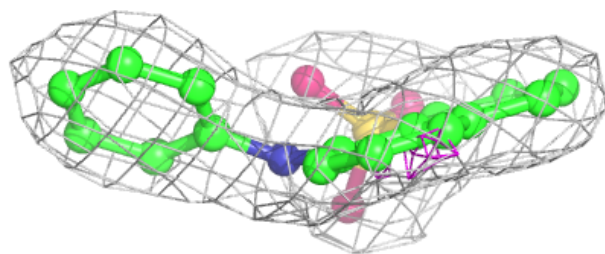
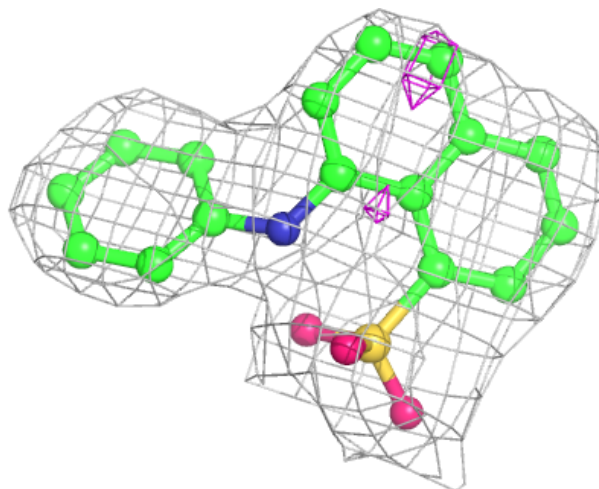
Electron density around 2AN U 201:

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



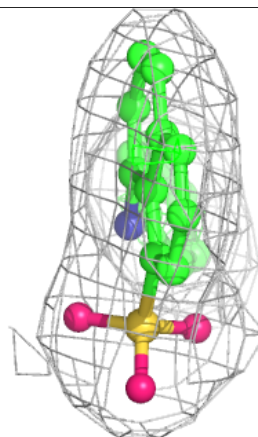
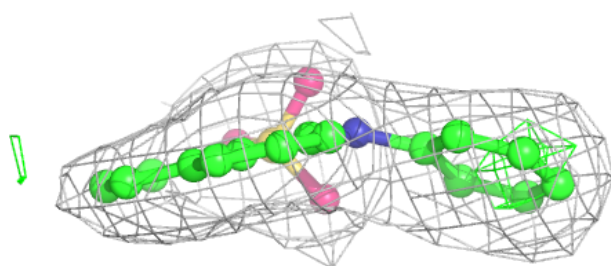
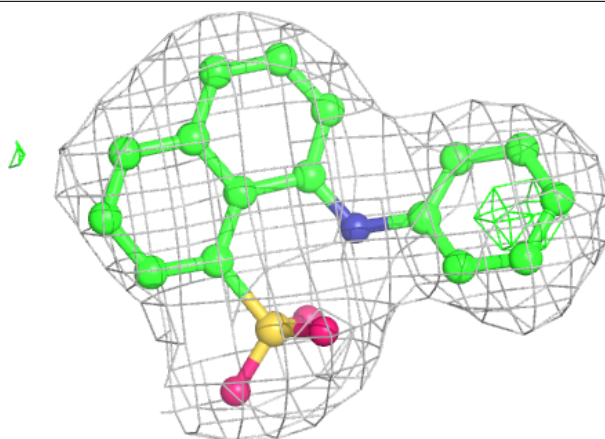
Electron density around 2AN O 202:

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



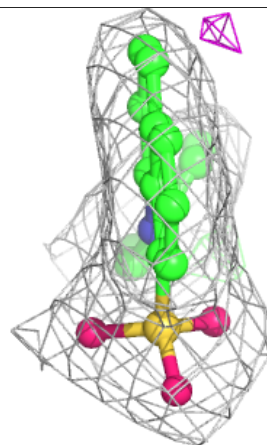
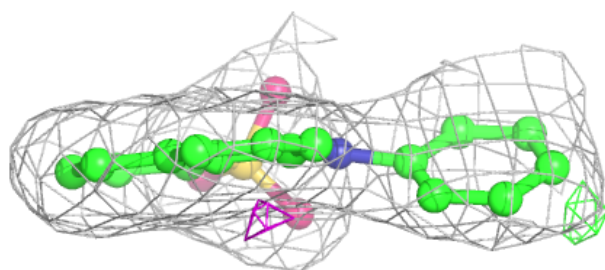
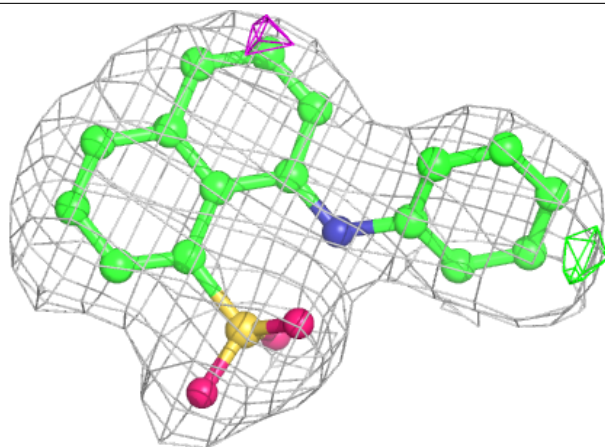
Electron density around 2AN A 204:

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



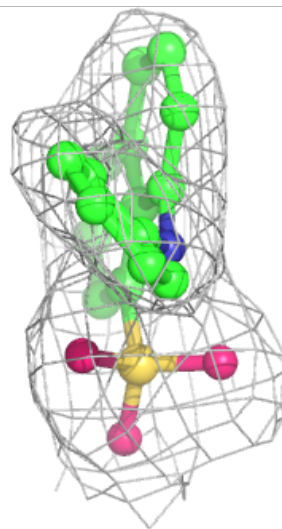
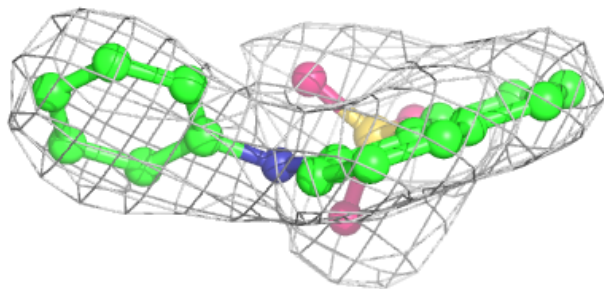
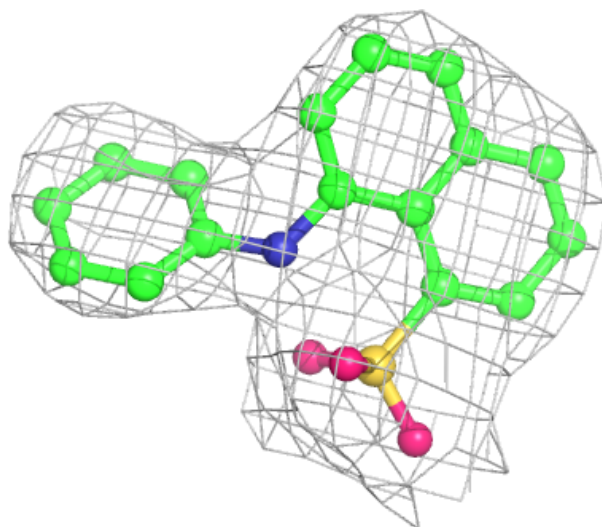
Electron density around 2AN W 202:

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



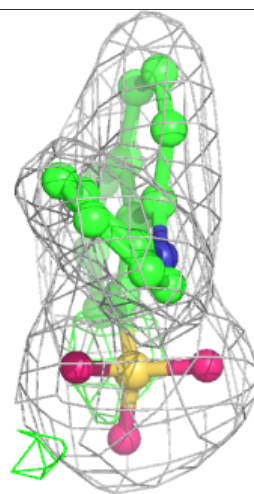
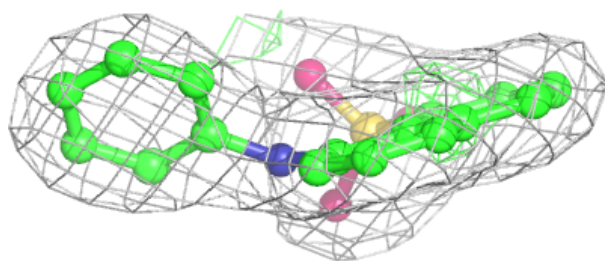
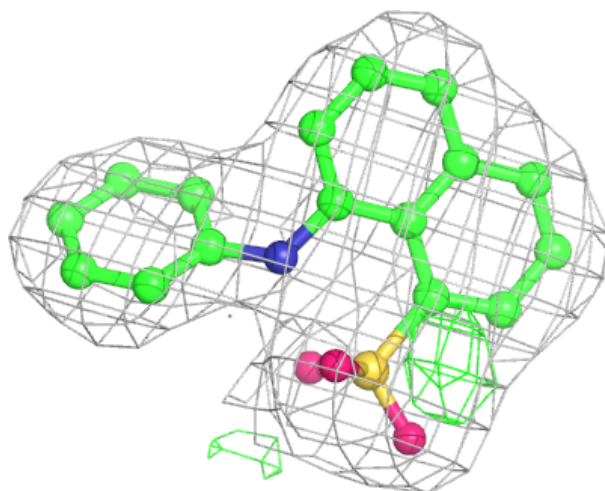
Electron density around 2AN H 202:

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



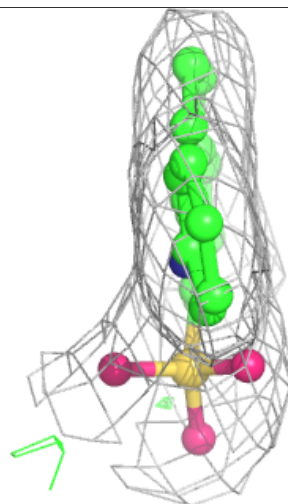
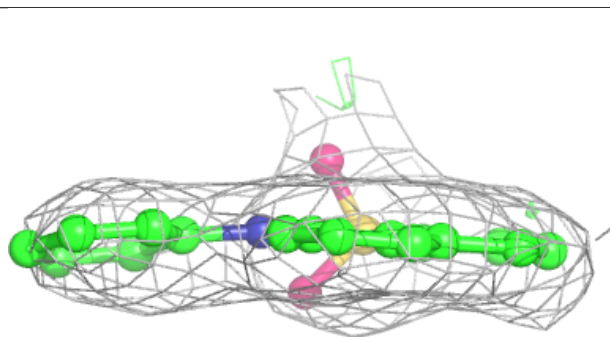
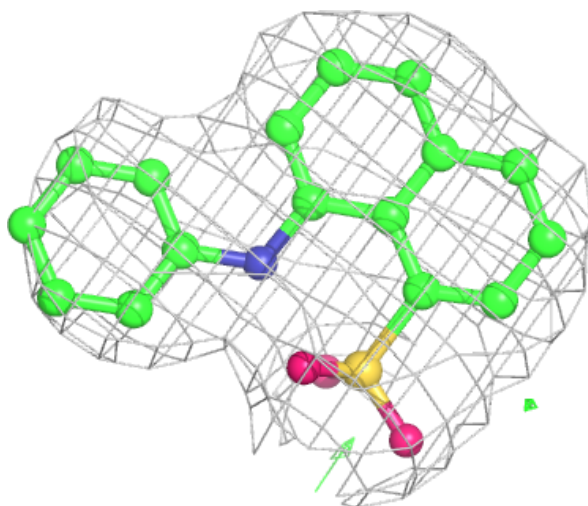
Electron density around 2AN L 201:

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



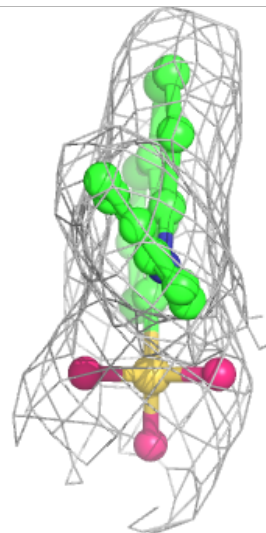
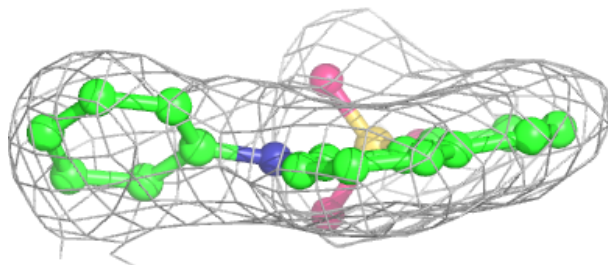
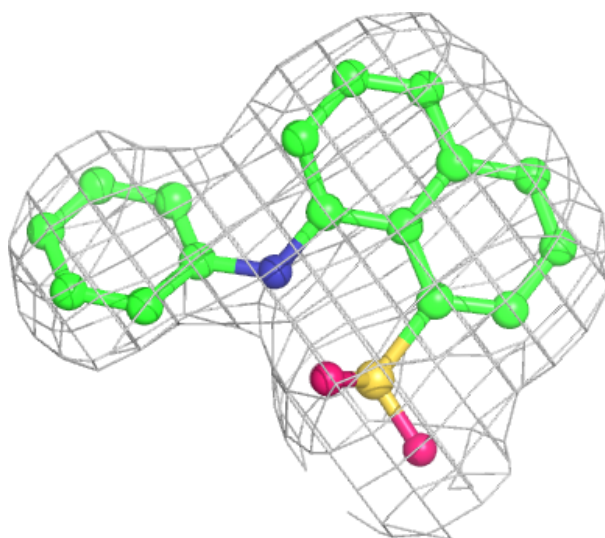
Electron density around 2AN I 203:

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



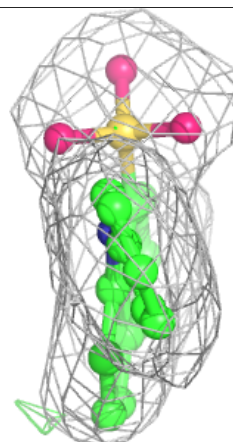
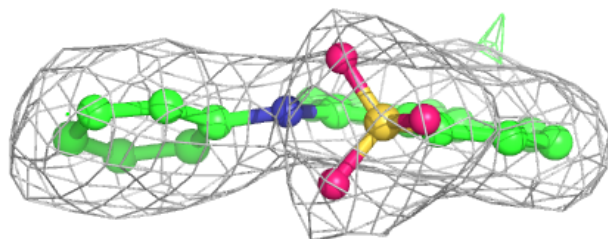
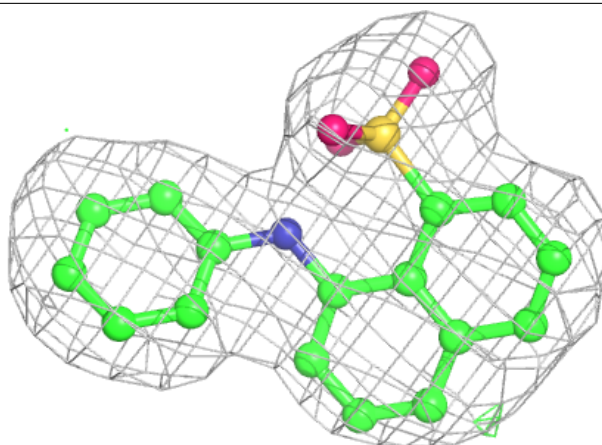
Electron density around 2AN Q 201:

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



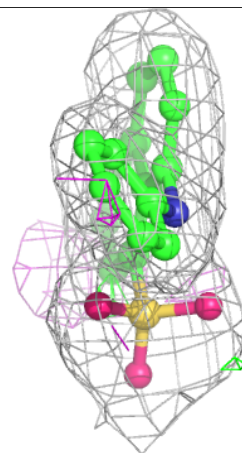
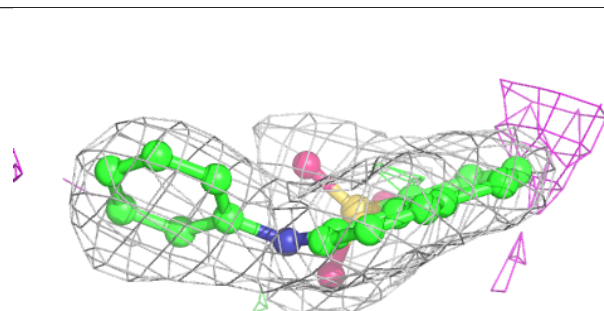
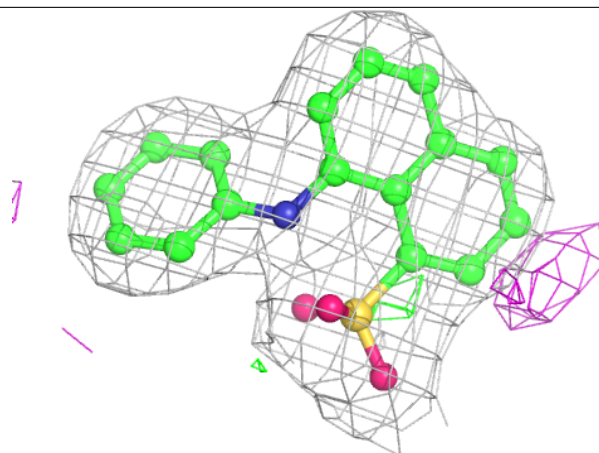
Electron density around 2AN H 203:

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



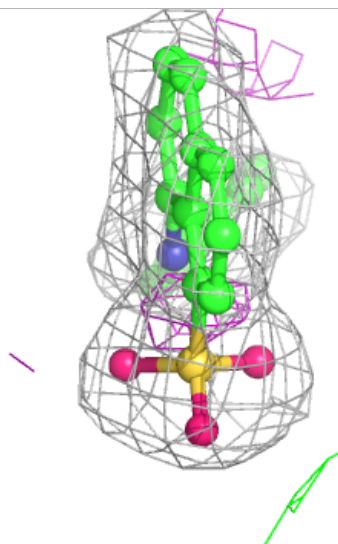
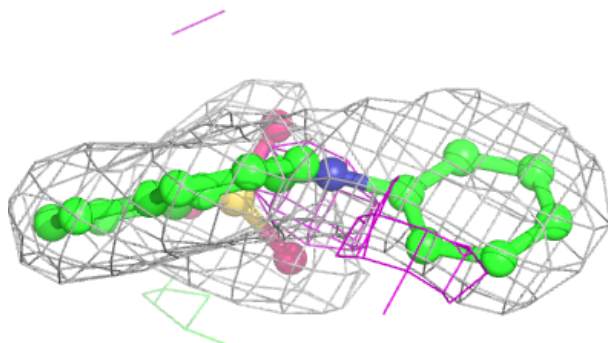
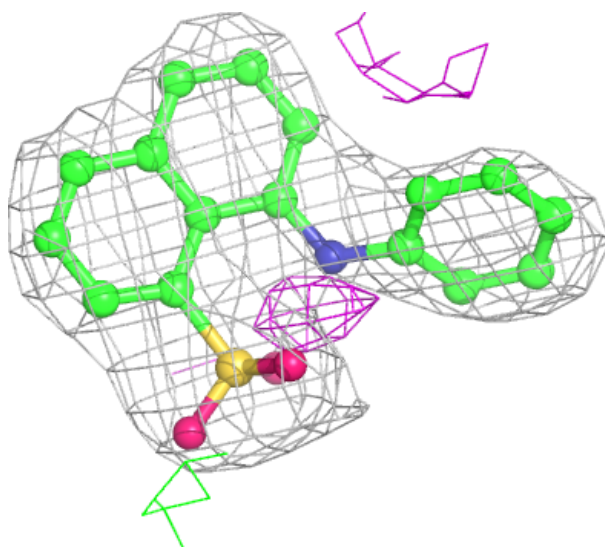
Electron density around 2AN G 201:

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



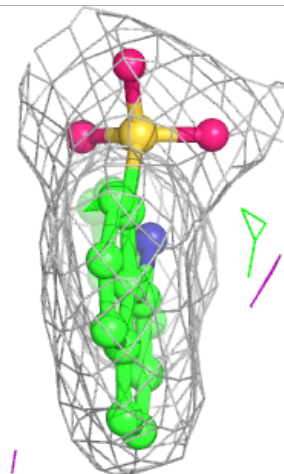
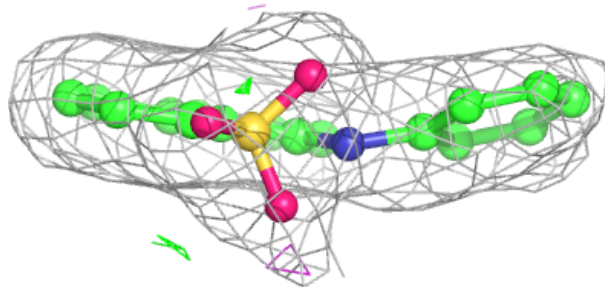
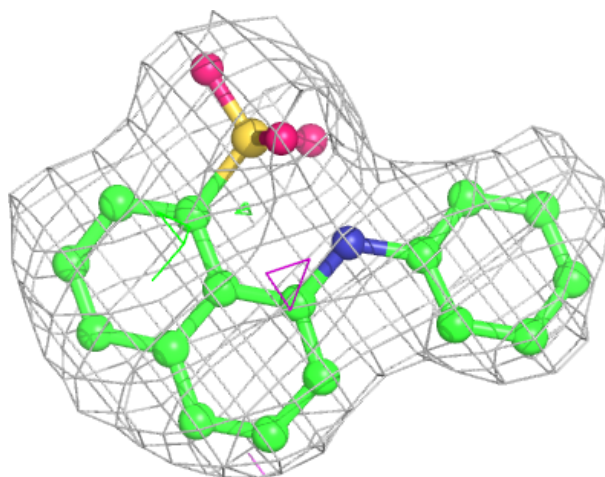
Electron density around 2AN B 201:

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



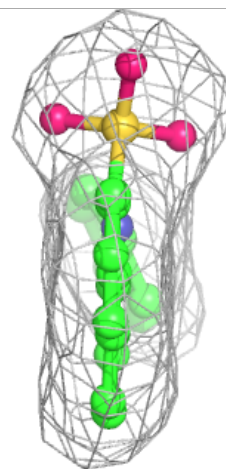
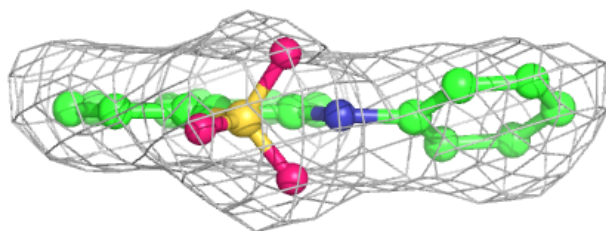
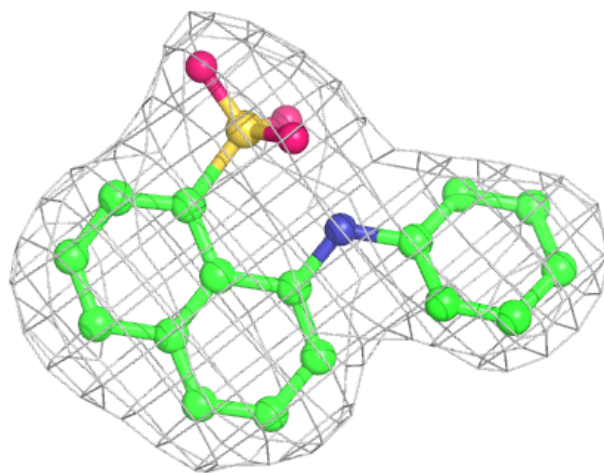
Electron density around 2AN G 202:

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



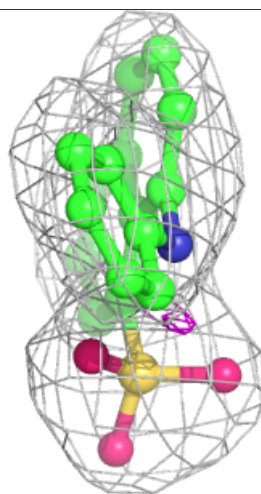
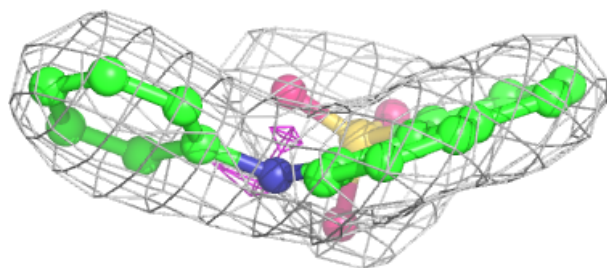
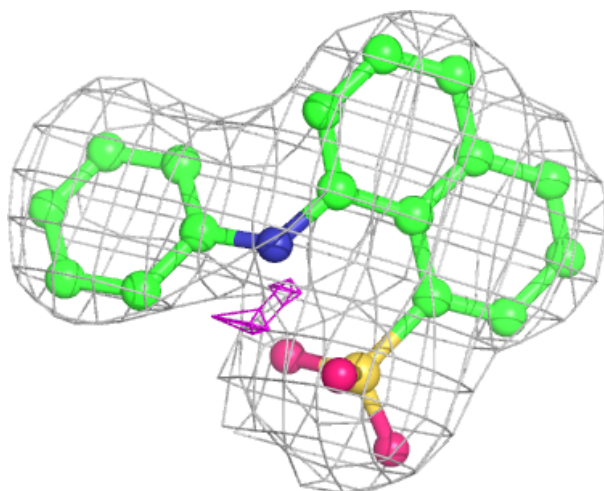
Electron density around 2AN L 203:

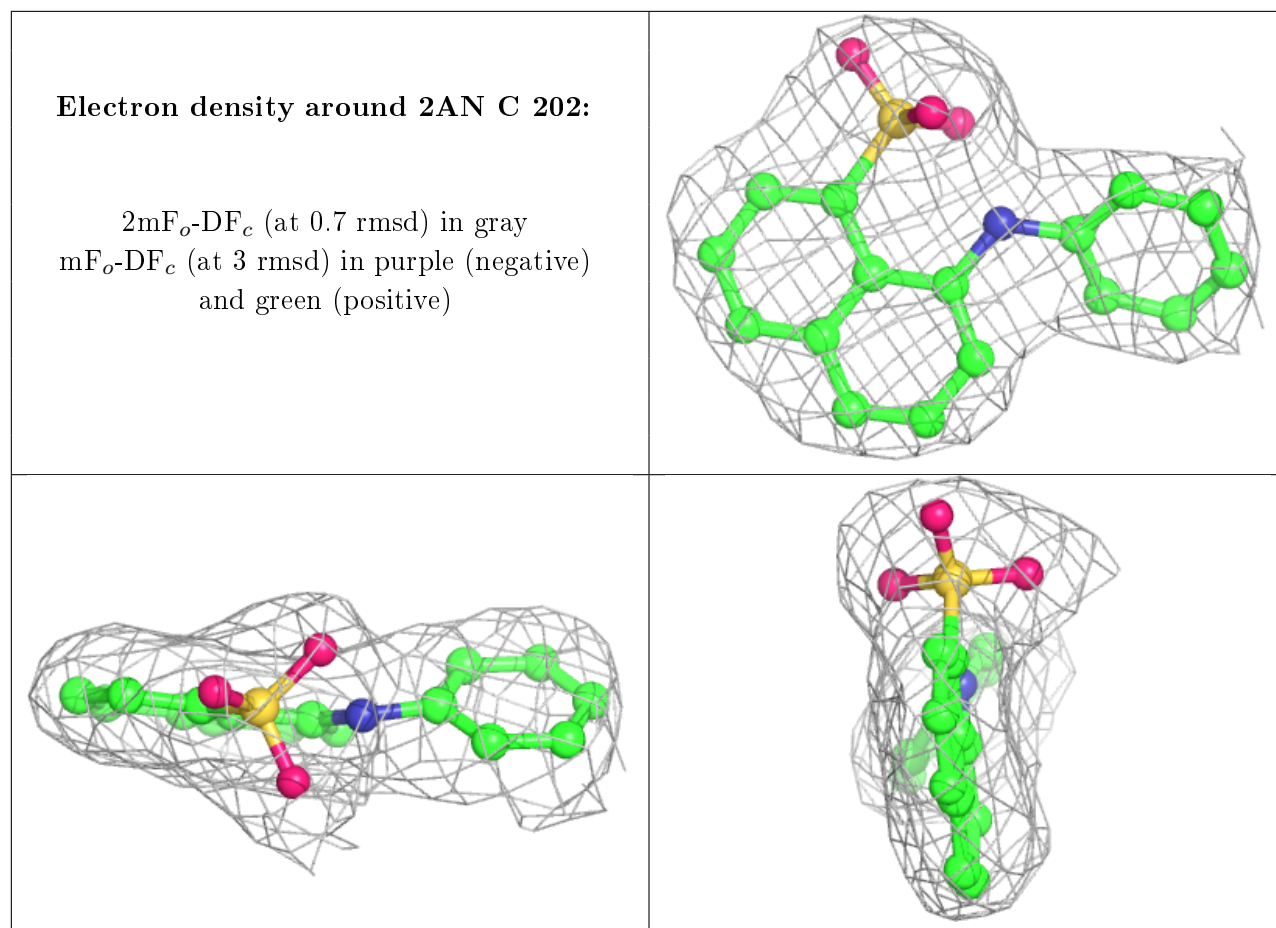
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around 2AN M 201:

$2mF_o-DF_c$ (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.