



Full wwPDB EM Validation Report ⓘ

Dec 19, 2024 – 04:45 AM EST

PDB ID : 8GLV
EMDB ID : EMD-40220
Title : 96-nm repeat unit of doublet microtubules from *Chlamydomonas reinhardtii* flagella
Authors : Walton, T.; Brown, A.
Deposited on : 2023-03-23
Resolution : 3.10 Å(reported)

This is a Full wwPDB EM 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/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

EMDB validation analysis : 0.0.1.dev113
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ : **FAILED**
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.40

1 Overall quality at a glance

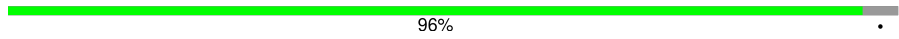
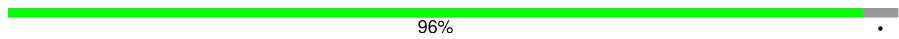
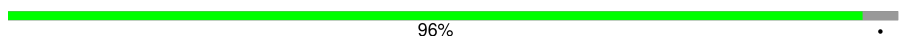
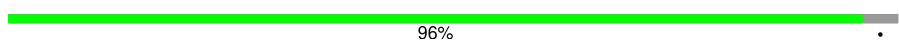
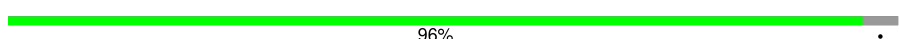
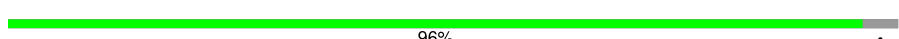

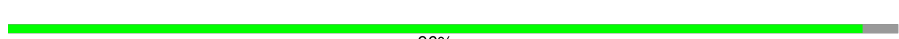




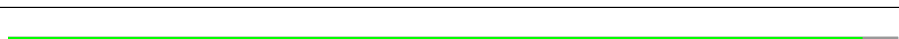
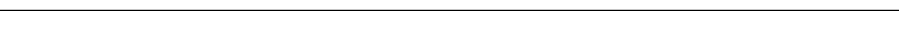
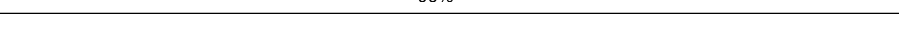
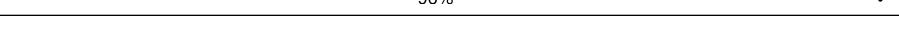
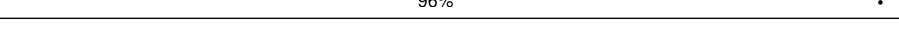
The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.10 Å.

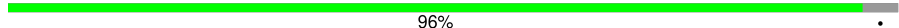
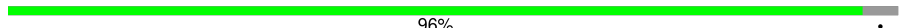
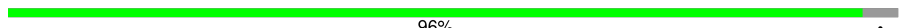
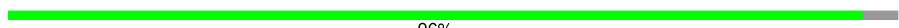









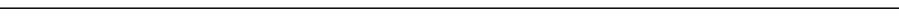

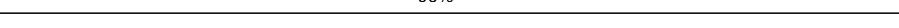
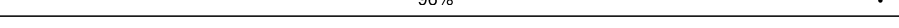
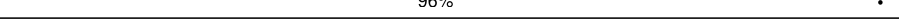
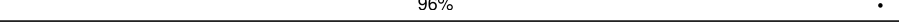
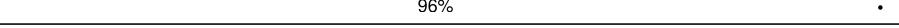
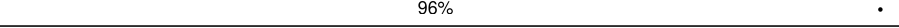
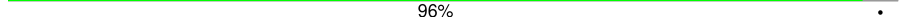
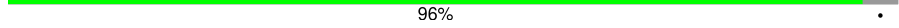
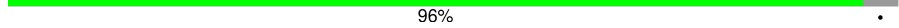
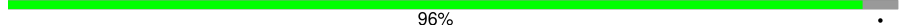
There are no overall percentile quality scores available for this entry.

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the 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 $\leq 5\%$

Mol	Chain	Length	Quality of chain
1	0A	443	 96% .
1	0C	443	 96% .
1	0E	443	 96% .
1	0G	443	 96% .
1	0I	443	 96% .
1	0K	443	 96% .
1	0M	443	 96% .
1	0O	443	 96% .
1	0Q	443	 96% .
1	0S	443	 96% .
1	0U	443	 96% .
1	0W	443	 96% .
1	0Y	443	 96% .
1	1A	443	 96% .
1	1C	443	 96% .
1	1E	443	 96% .
1	1G	443	 96% .

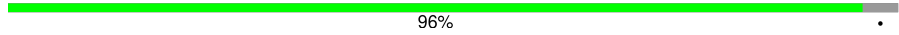
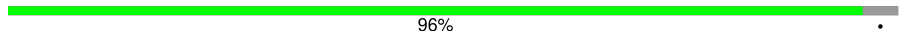
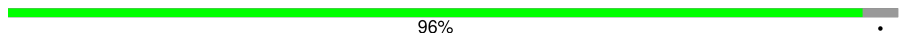

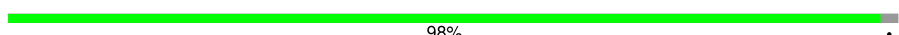

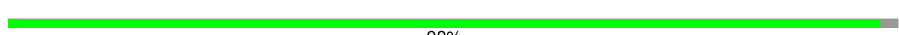




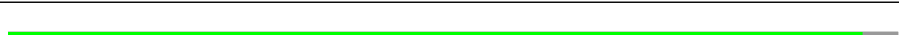

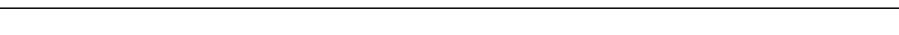
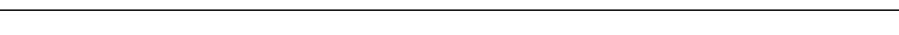
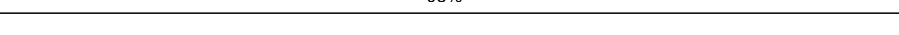
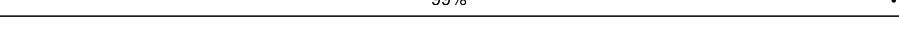
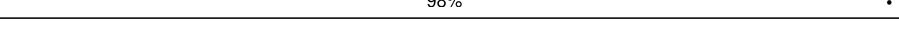
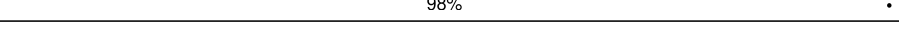
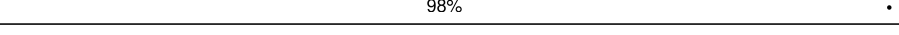
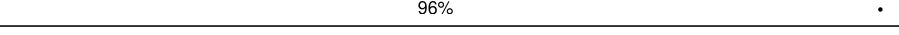
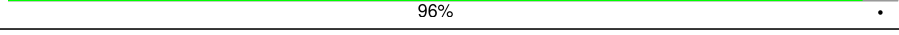
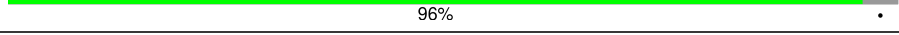
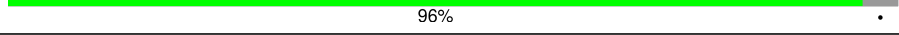
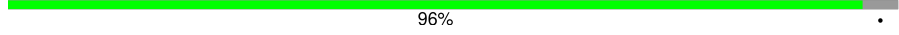
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Mol	Chain	Length	Quality of chain
1	1K	443	 96% .
1	1M	443	 96% .
1	1O	443	 96% .
1	1Q	443	 96% .
1	1S	443	 96% .
1	1U	443	 96% .
1	1W	443	 96% .
1	2A	443	 96% .
1	2C	443	 96% .
1	2E	443	 96% .
1	2G	443	 96% .
1	2I	443	 96% .
1	2K	443	 96% .
1	2M	443	 96% .
1	2Q	443	 96% .
1	2S	443	 96% .
1	2U	443	 96% .
1	2W	443	 96% .
1	2Y	443	 96% .
1	3A	443	 96% .
1	3C	443	 96% .
1	3G	443	 96% .
1	3I	443	 96% .
1	3K	443	 96% .
1	3M	443	 96% .

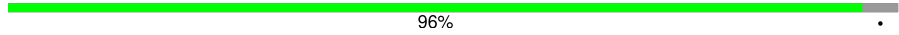
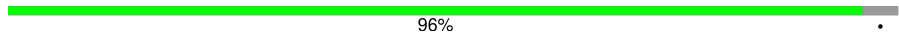
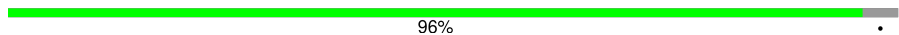

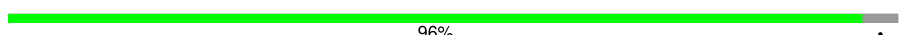

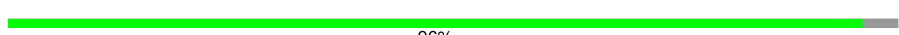




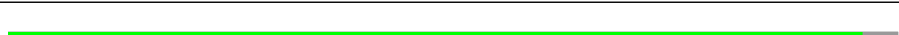

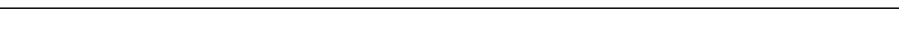
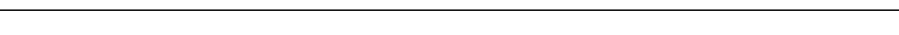
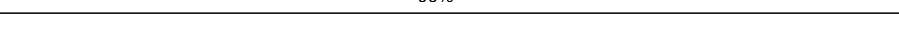
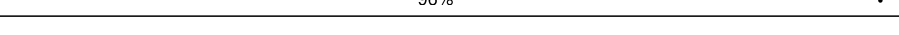
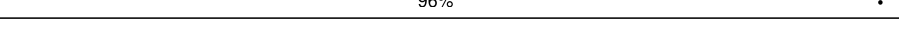
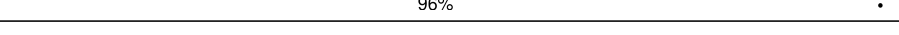
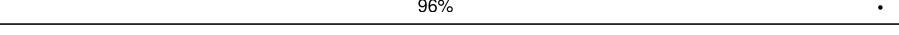
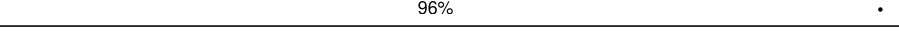
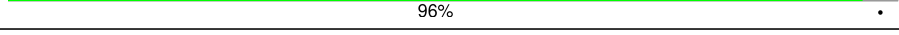
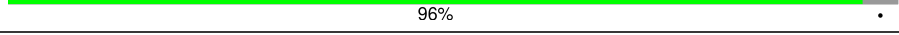
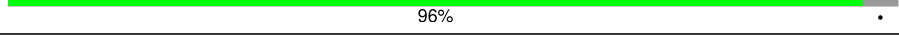
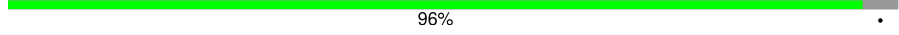
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Mol	Chain	Length	Quality of chain
1	3O	443	 96%
1	3Q	443	 96%
1	3S	443	 96%
1	8H	443	 98%
1	8J	443	 98%
1	8L	443	 99%
1	8N	443	 98%
1	A1	443	 98%
1	A3	443	 98%
1	A5	443	 97%
1	A6	443	 96%
1	A7	443	 96%
1	A9	443	 96%
1	AJ	443	 98%
1	Ah	443	 98%
1	Aj	443	 99%
1	Al	443	 98%
1	An	443	 98%
1	Ap	443	 98%
1	Au	443	 96%
1	Aw	443	 96%
1	Ay	443	 96%
1	B1	443	 96%
1	B3	443	 96%
1	B5	443	 96%

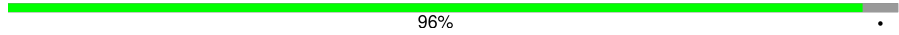
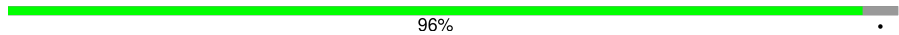
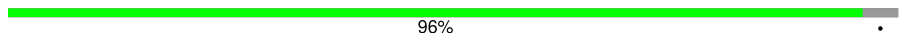

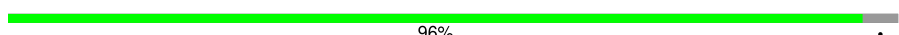

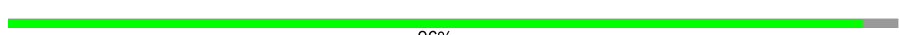




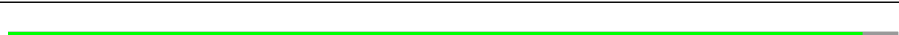

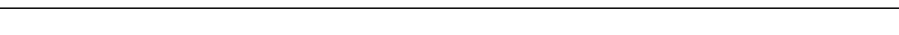
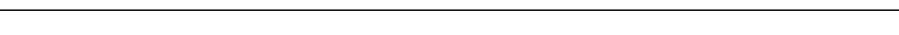
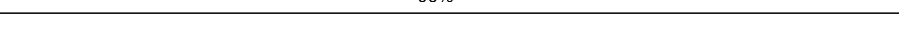
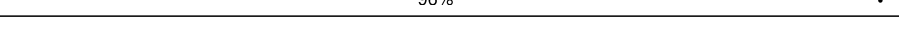
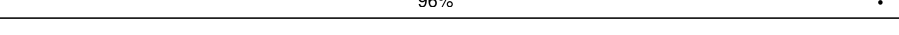
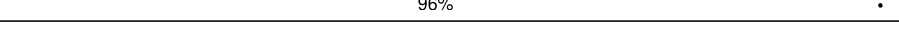
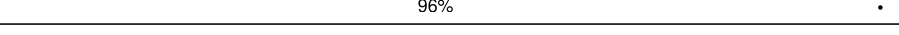
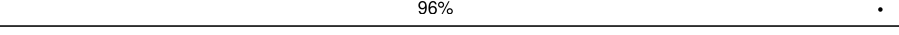
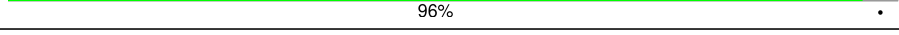
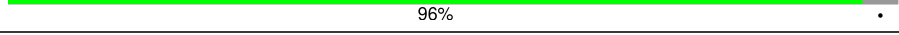
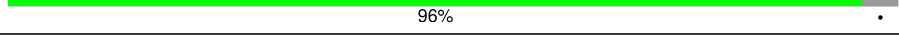
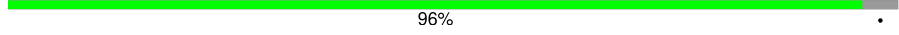
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Mol	Chain	Length	Quality of chain
1	B6	443	 96% .
1	B8	443	 96% .
1	BB	443	 96% .
1	BG	443	 96% .
1	BI	443	 96% .
1	BK	443	 96% .
1	BM	443	 96% .
1	BO	443	 96% .
1	BS	443	 96% .
1	BU	443	 96% .
1	BW	443	 96% .
1	BY	443	 96% .
1	Ba	443	 96% .
1	Bf	443	 96% .
1	Bh	443	 96% .
1	Bj	443	 96% .
1	Bl	443	 96% .
1	Bn	443	 96% .
1	Bs	443	 96% .
1	Bu	443	 96% .
1	Bw	443	 96% .
1	By	443	 96% .
1	C0	443	 96% .
1	C2	443	 96% .
1	C4	443	 96% .

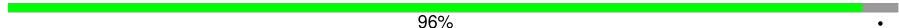
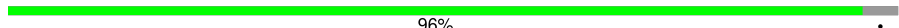
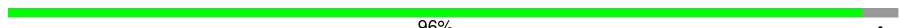
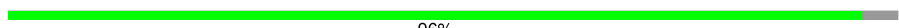









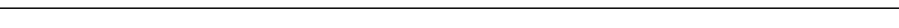

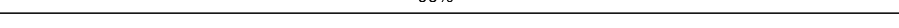
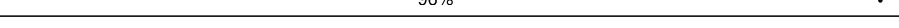
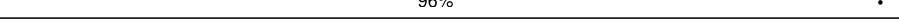
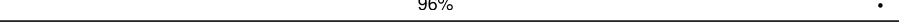
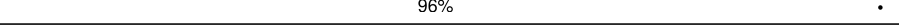
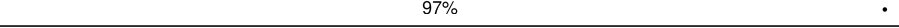
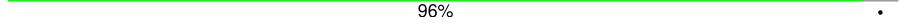
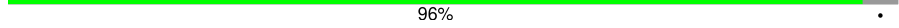
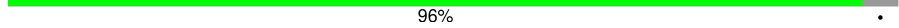
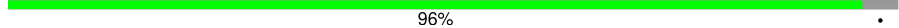
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Mol	Chain	Length	Quality of chain
1	C6	443	 96% .
1	C8	443	 96% .
1	CE	443	 96% .
1	CG	443	 96% .
1	CI	443	 96% .
1	CK	443	 96% .
1	CM	443	 96% .
1	CR	443	 96% .
1	CT	443	 96% .
1	CV	443	 96% .
1	CX	443	 96% .
1	CZ	443	 96% .
1	Ce	443	 96% .
1	Cg	443	 96% .
1	Ci	443	 96% .
1	Ck	443	 96% .
1	Cm	443	 96% .
1	Cr	443	 96% .
1	Ct	443	 96% .
1	Cv	443	 96% .
1	Cx	443	 96% .
1	Cz	443	 96% .
1	D0	443	 96% .
1	D2	443	 96% .
1	D4	443	 96% .

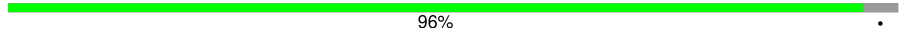
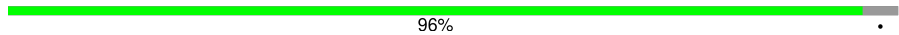
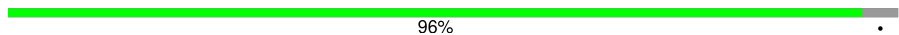

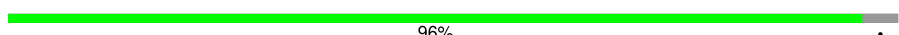

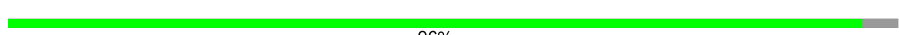




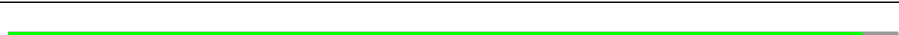

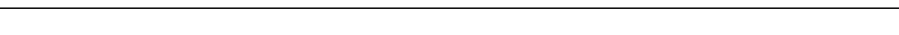
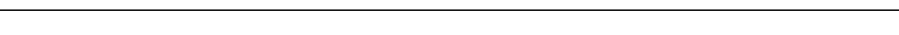
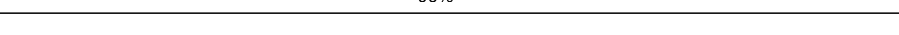
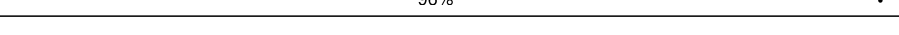
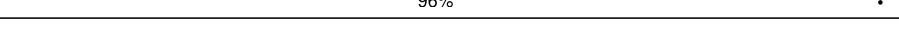
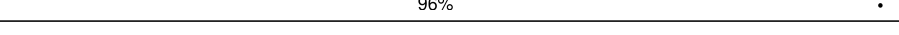
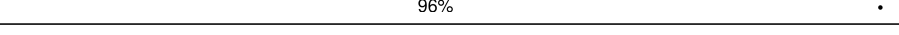
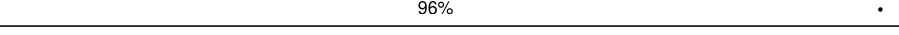
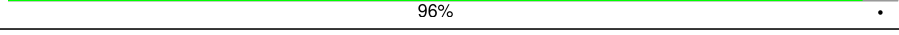
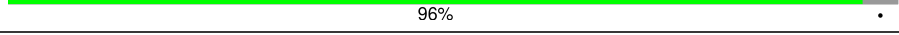
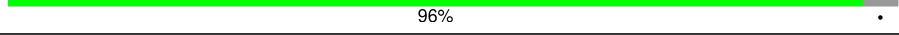
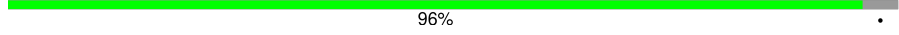
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Mol	Chain	Length	Quality of chain
1	D6	443	 96% .
1	D8	443	 96% .
1	DE	443	 96% .
1	DG	443	 96% .
1	DI	443	 96% .
1	DK	443	 96% .
1	DM	443	 96% .
1	DR	443	 96% .
1	DT	443	 97% .
1	DV	443	 96% .
1	DX	443	 97% .
1	DZ	443	 96% .
1	De	443	 96% .
1	Dg	443	 96% .
1	Di	443	 96% .
1	Dk	443	 96% .
1	Dm	443	 96% .
1	Dr	443	 96% .
1	Dt	443	 96% .
1	Dv	443	 97% .
1	Dx	443	 96% .
1	Dz	443	 96% .
1	E0	443	 96% .
1	E2	443	 96% .
1	E4	443	 96% .

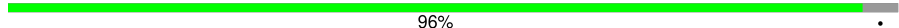
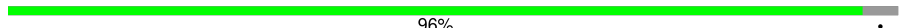
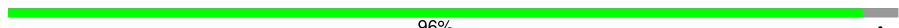
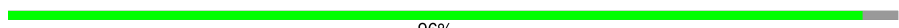









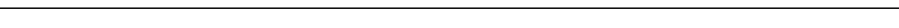

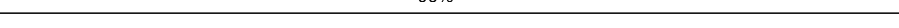
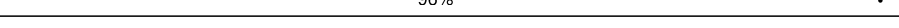
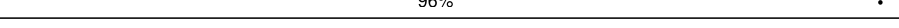
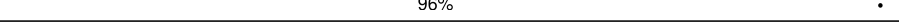
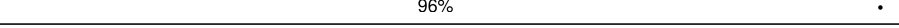
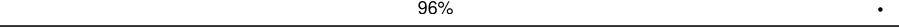
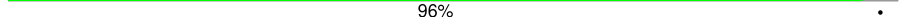
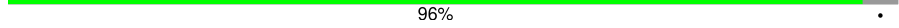
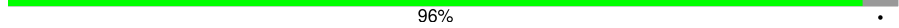
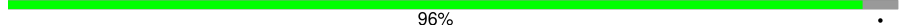
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Mol	Chain	Length	Quality of chain
1	E6	443	 96% .
1	E8	443	 96% .
1	ED	443	 96% .
1	EF	443	 96% .
1	EH	443	 96% .
1	EJ	443	 96% .
1	EL	443	 96% .
1	EQ	443	 96% .
1	ES	443	 96% .
1	EU	443	 96% .
1	EW	443	 96% .
1	EY	443	 96% .
1	Ed	443	 96% .
1	Ef	443	 96% .
1	Eh	443	 96% .
1	Ej	443	 96% .
1	El	443	 96% .
1	Eq	443	 96% .
1	Es	443	 96% .
1	Eu	443	 96% .
1	Ew	443	 96% .
1	F0	443	 96% .
1	F2	443	 96% .
1	F6	443	 96% .
1	F8	443	 96% .

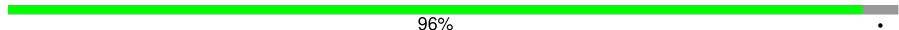
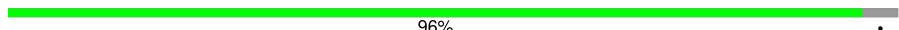
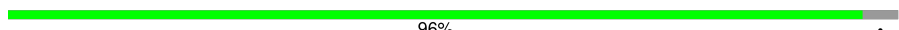
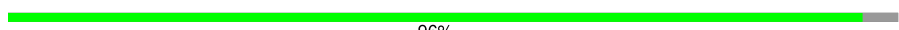






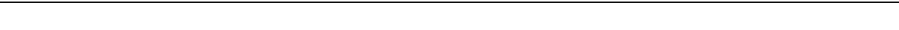

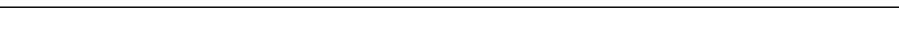
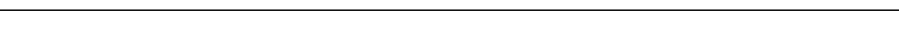
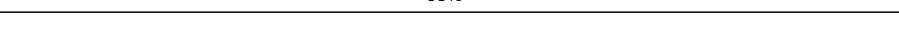
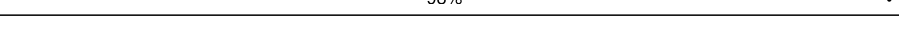
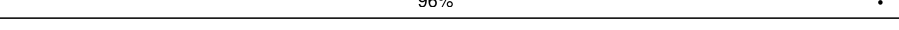
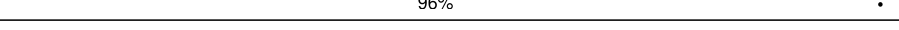
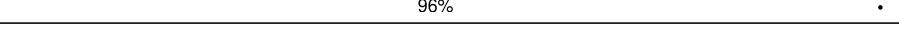
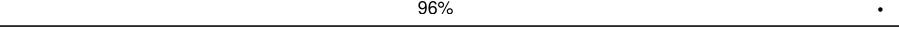
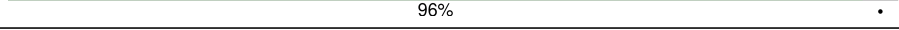
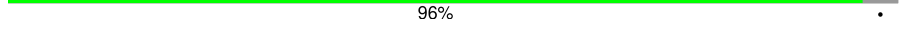
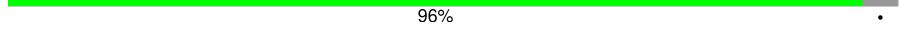
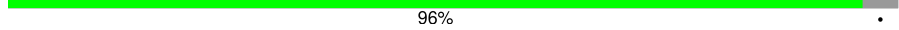
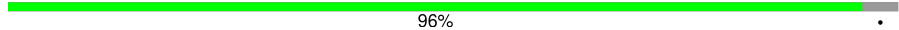
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Mol	Chain	Length	Quality of chain
1	FC	443	 96% .
1	FE	443	 96% .
1	FG	443	 96% .
1	FI	443	 96% .
1	FK	443	 96% .
1	FP	443	 96% .
1	FR	443	 96% .
1	FT	443	 96% .
1	FV	443	 96% .
1	FX	443	 96% .
1	Fc	443	 96% .
1	Fe	443	 96% .
1	Fg	443	 96% .
1	Fi	443	 96% .
1	Fk	443	 96% .
1	Fp	443	 96% .
1	Fr	443	 96% .
1	Ft	443	 96% .
1	Fv	443	 96% .
1	Fx	443	 96% .
1	G0	443	 96% .
1	G2	443	 96% .
1	G4	443	 96% .
1	G6	443	 96% .
1	G8	443	 96% .

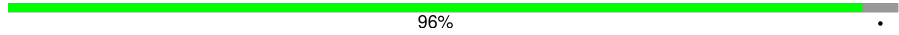
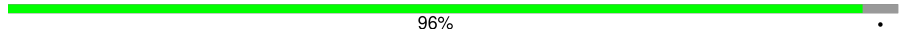
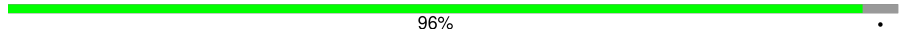
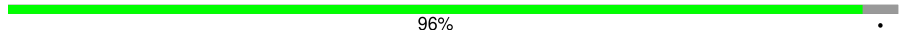
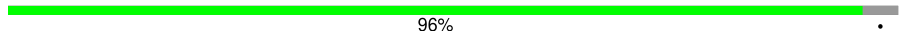
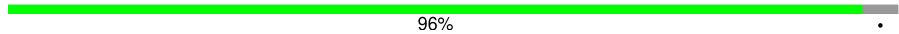
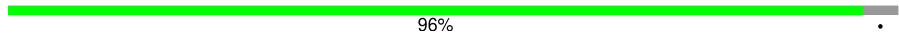
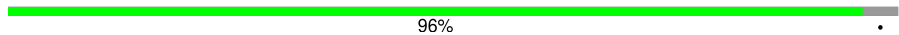
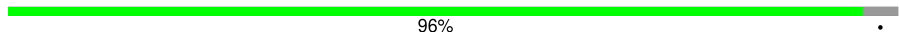
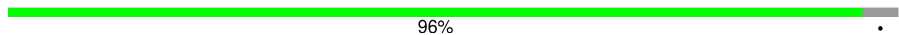
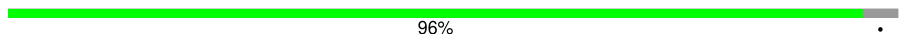
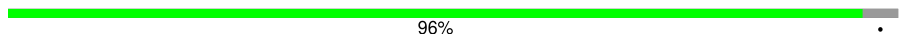
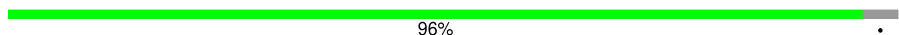
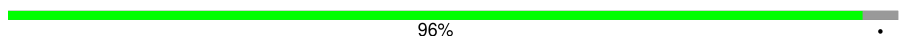

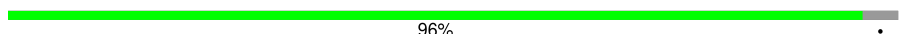
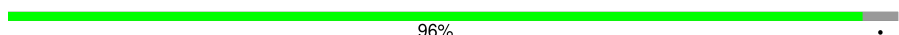
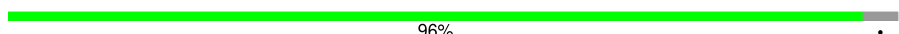
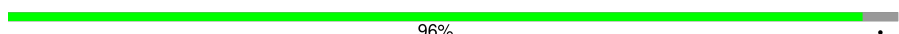
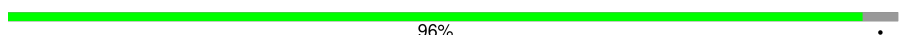
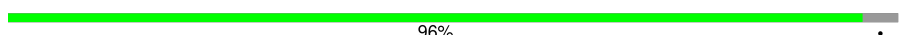
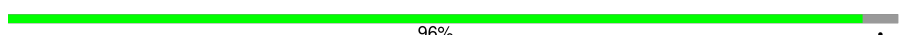
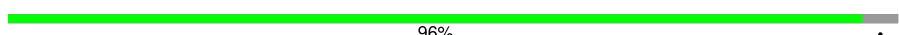
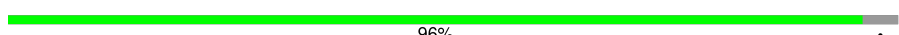

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Mol	Chain	Length	Quality of chain
1	GB	443	 96% .
1	GD	443	 96% .
1	GF	443	 96% .
1	GH	443	 96% .
1	GJ	443	 96% .
1	H2	443	 96% .
1	H4	443	 96% .
1	H6	443	 96% .
1	H8	443	 96% .
1	I0	443	 96% .
1	I2	443	 96% .
1	I4	443	 96% .
1	I8	443	 96% .
1	IK	443	 98% .
1	IM	443	 98% .
1	IW	443	 96% .
1	IY	443	 96% .
1	Ij	443	 96% .
1	Il	443	 96% .
1	Iw	443	 96% .
1	Iy	443	 96% .
1	J0	443	 96% .
1	J2	443	 96% .
1	J4	443	 96% .
1	J6	443	 96% .

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Mol	Chain	Length	Quality of chain
1	J8	443	 96% .
1	JJ	443	 96% .
1	JL	443	 96% .
1	JU	443	 96% .
1	JW	443	 96% .
1	JY	443	 96% .
1	Jh	443	 96% .
1	Jj	443	 96% .
1	Jl	443	 96% .
1	Ju	443	 96% .
1	Jw	443	 96% .
1	Jy	443	 96% .
1	K0	443	 96% .
1	K4	443	 96% .
1	K6	443	 96% .
1	K8	443	 96% .
1	KH	443	 96% .
1	KJ	443	 96% .
1	KL	443	 96% .
1	KU	443	 96% .
1	KW	443	 96% .
1	KY	443	 96% .
1	Kh	443	 96% .
1	Kj	443	 96% .
1	Kl	443	 96% .

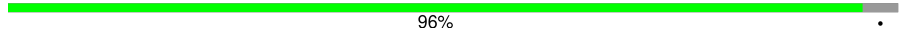
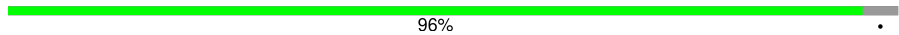
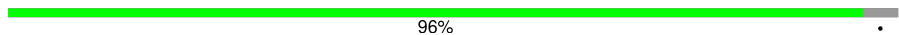

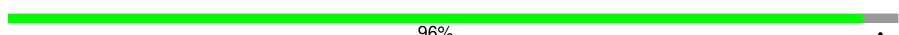

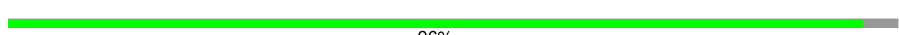




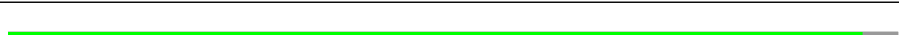

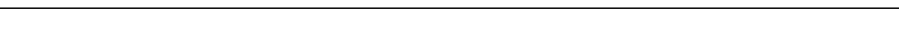
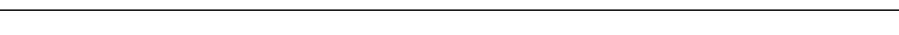
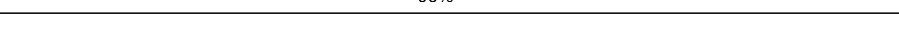
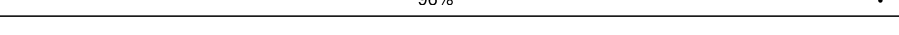
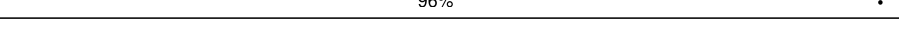
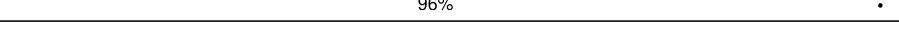
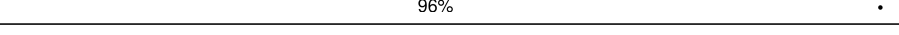
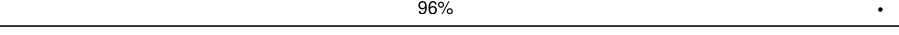
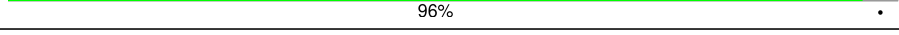
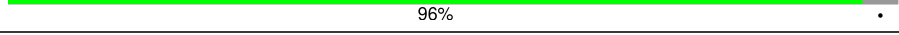
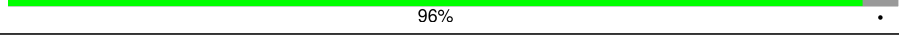
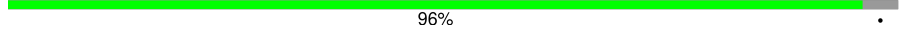
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Mol	Chain	Length	Quality of chain
1	Kv	443	96%
1	Kx	443	97%
1	L0	443	96%
1	L2	443	96%
1	L4	443	96%
1	L6	443	96%
1	LH	443	96%
1	LJ	443	96%
1	LT	443	97%
1	LV	443	96%
1	LX	443	96%
1	Lh	443	96%
1	Lj	443	96%
1	Lu	443	96%
1	Lw	443	96%
1	M0	443	96%
1	M2	443	96%
1	M4	443	96%
1	M6	443	96%
1	M8	443	96%
1	MG	443	96%
1	MI	443	96%
1	MT	443	96%
1	MV	443	96%
1	Mg	443	96%

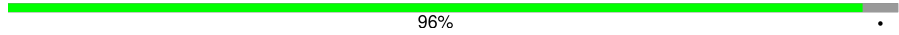
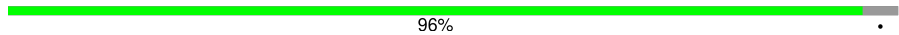
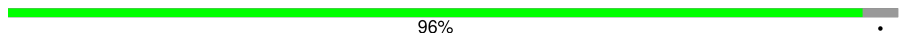

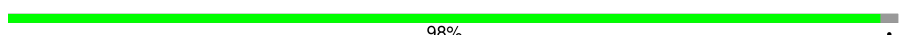






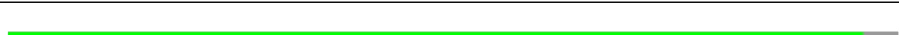

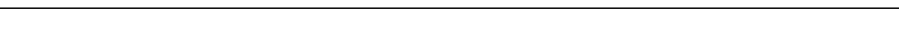
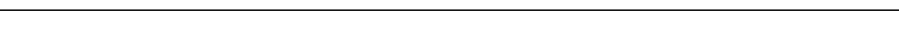
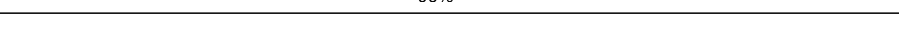
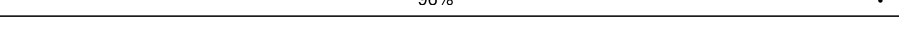
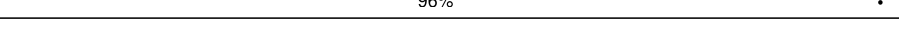
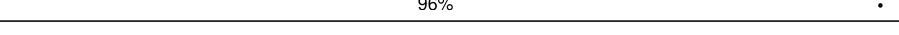
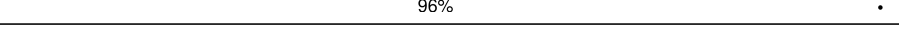
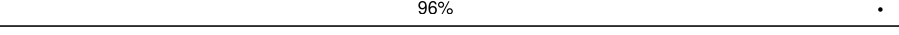
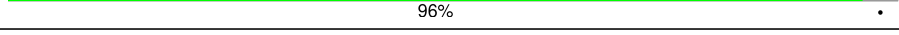
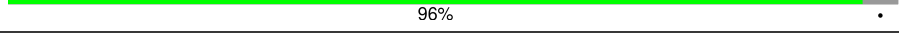
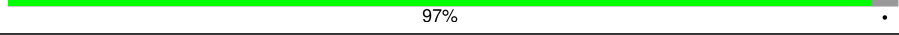
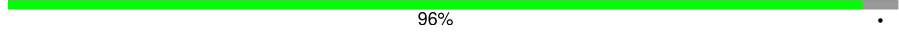
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Mol	Chain	Length	Quality of chain
1	Mi	443	 96%
1	Mt	443	 96%
1	Mv	443	 96%
1	N0	443	 96%
1	N2	443	 96%
1	N6	443	 96%
1	N8	443	 96%
1	NF	443	 96%
1	NH	443	 96%
1	NJ	443	 96%
1	NS	443	 96%
1	NU	443	 96%
1	NW	443	 96%
1	Nf	443	 96%
1	Nh	443	 96%
1	Nj	443	 96%
1	O0	443	 96%
1	O2	443	 96%
1	O4	443	 96%
1	O6	443	 96%
1	O8	443	 96%
1	P4	443	 96%
1	P6	443	 96%
1	P8	443	 96%
1	Q0	443	 96%

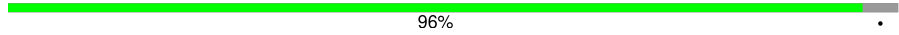
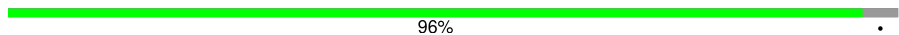
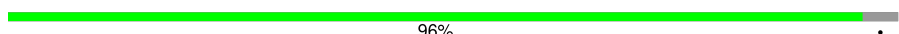
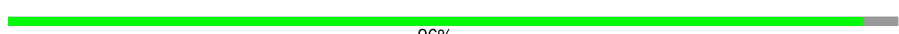


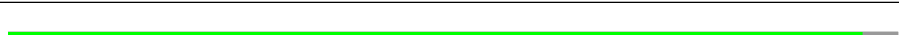
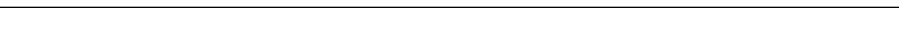
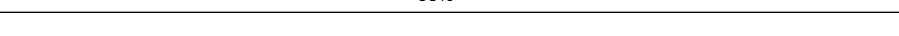
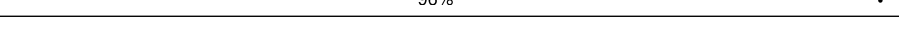
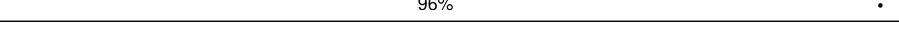
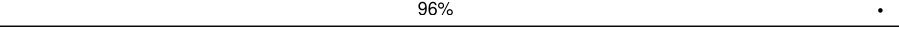
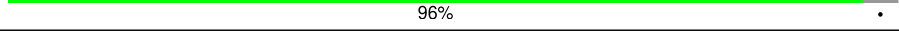
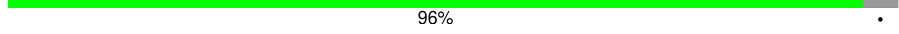
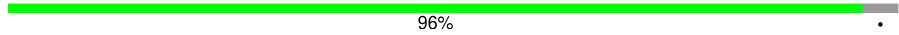
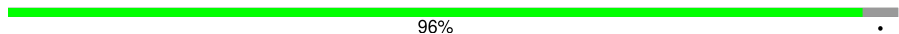
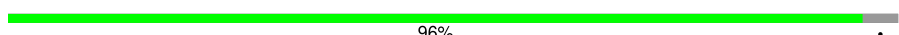
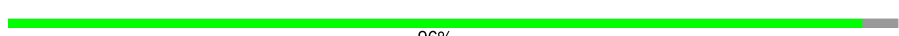





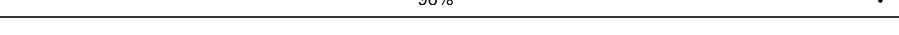
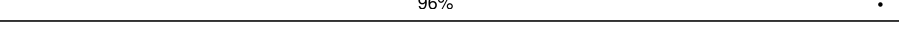
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Mol	Chain	Length	Quality of chain
1	Q2	443	 96% .
1	Q4	443	 96% .
1	Q6	443	 96% .
1	Q8	443	 94% 5%
1	R0	443	 98% .
1	R2	443	 96% .
1	R4	443	 97% .
1	R6	443	 96% .
1	R8	443	 97% .
1	S0	443	 96% .
1	S2	443	 97% .
1	S4	443	 96% .
1	S6	443	 96% .
1	S8	443	 96% .
1	T0	443	 96% .
1	T2	443	 96% .
1	T4	443	 96% .
1	T6	443	 96% .
1	T8	443	 96% .
1	U2	443	 96% .
1	U4	443	 96% .
1	U6	443	 96% .
1	U8	443	 97% .
1	V0	443	 96% .
1	V2	443	 96% .

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Mol	Chain	Length	Quality of chain
1	V4	443	 96% .
1	V6	443	 96% .
1	V8	443	 96% .
1	W0	443	 96% .
1	W2	443	 96% .
1	W4	443	 96% .
1	W6	443	 96% .
1	W8	443	 96% .
1	X0	443	 96% .
1	X2	443	 96% .
1	X4	443	 96% .
1	X6	443	 96% .
1	X8	443	 96% .
1	Y0	443	 96% .
1	Y2	443	 96% .
1	Y4	443	 96% .
1	Y6	443	 96% .
1	Y8	443	 96% .
1	Z0	443	 96% .
1	Z2	443	 96% .
1	Z4	443	 96% .
1	Z6	443	 96% .
1	Z8	443	 96% .
2	0B	451	 95% 5%
2	0F	451	 95% 5%

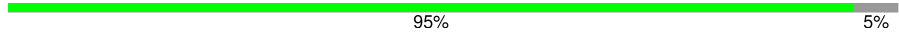
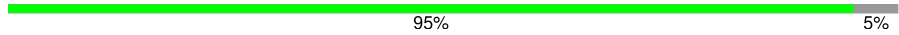
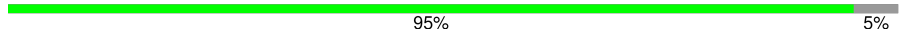
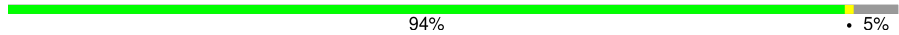
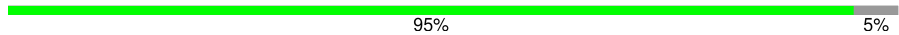
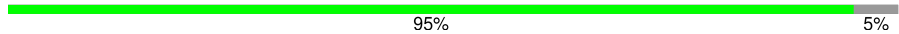
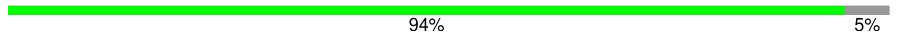
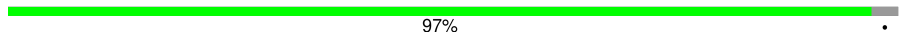
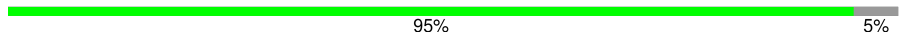
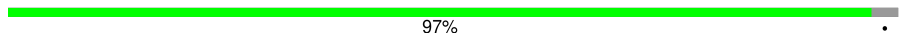
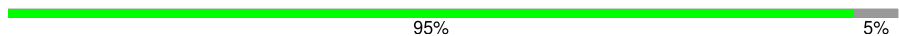
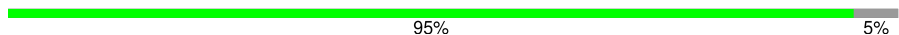



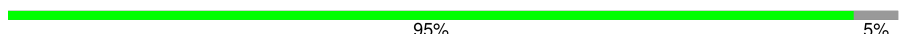
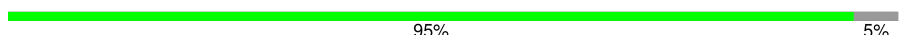
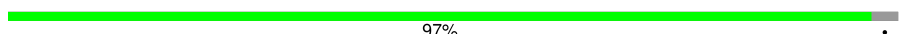
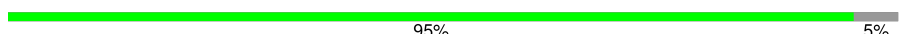
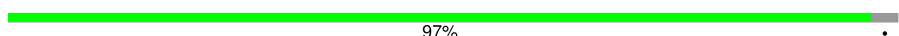
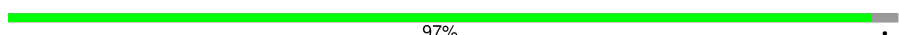
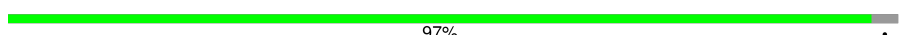
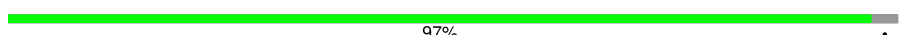
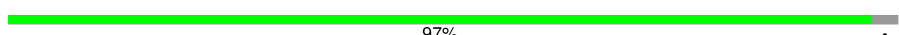

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Mol	Chain	Length	Quality of chain	
2	0H	451	95%	5%
2	0J	451	95%	5%
2	0L	451	95%	5%
2	0N	451	95%	5%
2	0P	451	95%	5%
2	0R	451	95%	5%
2	0V	451	95%	5%
2	0X	451	94%	5%
2	0Z	451	95%	5%
2	1B	451	95%	5%
2	1D	451	95%	5%
2	1F	451	95%	5%
2	1H	451	95%	5%
2	1L	451	95%	5%
2	1N	451	95%	5%
2	1P	451	95%	5%
2	1R	451	95%	5%
2	1T	451	95%	5%
2	1V	451	95%	5%
2	1X	451	95%	5%
2	1Z	451	95%	5%
2	2B	451	95%	5%
2	2D	451	95%	5%
2	2F	451	95%	5%
2	2H	451	95%	5%

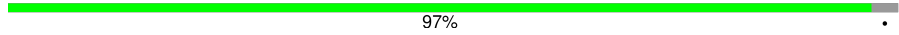
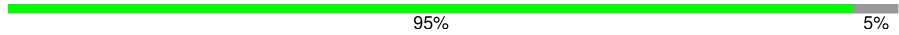
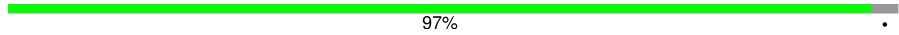
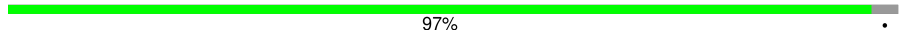
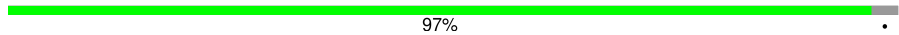
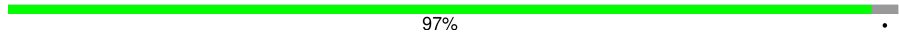
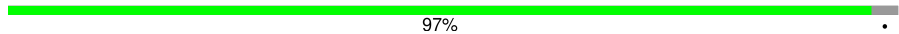
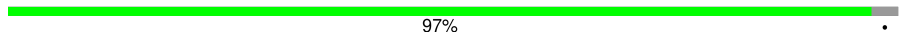
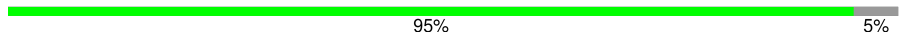
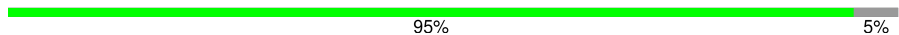
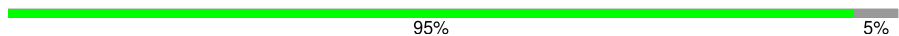
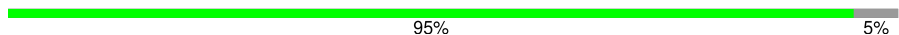



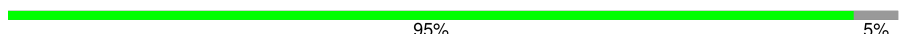
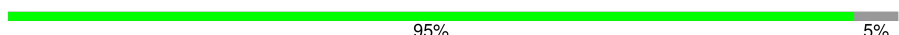
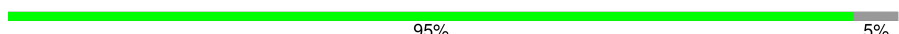
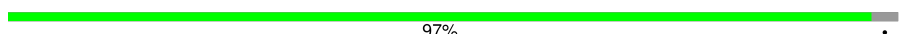
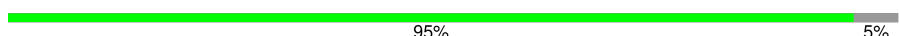
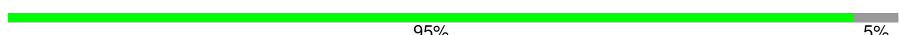
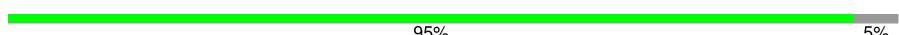
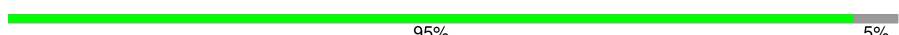
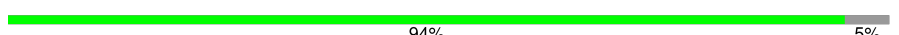

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Mol	Chain	Length	Quality of chain
2	2J	451	 95% 5%
2	2L	451	 95% 5%
2	2N	451	 95% 5%
2	2P	451	 94% 5%
2	2R	451	 95% 5%
2	2T	451	 95% 5%
2	2V	451	 94% 5%
2	2X	451	 97% .
2	2Z	451	 95% 5%
2	3B	451	 97% .
2	3D	451	 95% 5%
2	3F	451	 95% 5%
2	3H	451	 95% 5%
2	3J	451	 95% 5%
2	3L	451	 95% 5%
2	3N	451	 95% 5%
2	3P	451	 95% 5%
2	3R	451	 97% .
2	3T	451	 95% 5%
2	8F	451	 97% .
2	8I	451	 97% .
2	8K	451	 97% .
2	8M	451	 97% .
2	A0	451	 97% .
2	A2	451	 97% .

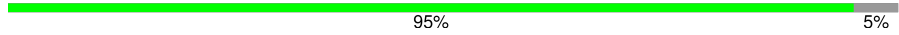
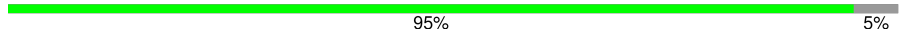
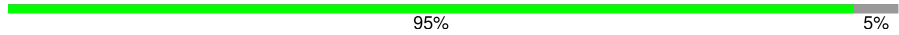
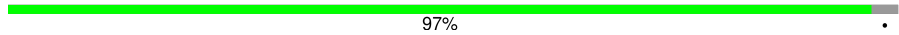
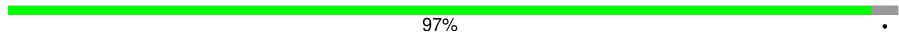
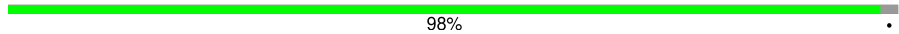
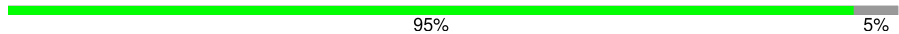
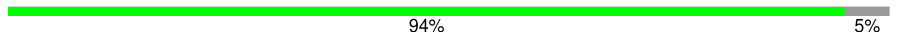
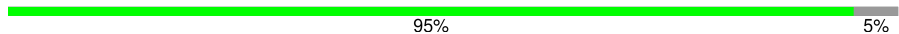
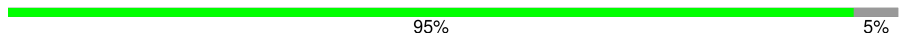
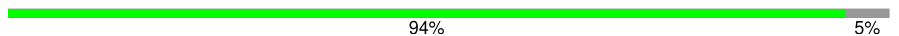
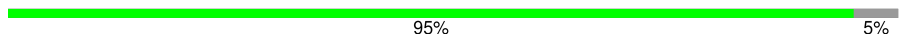

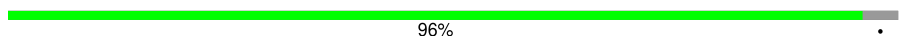
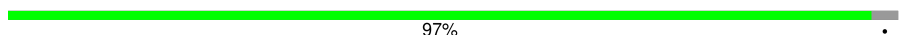

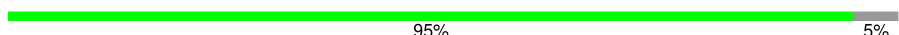
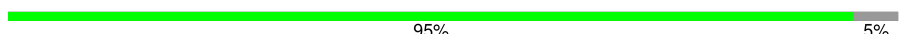
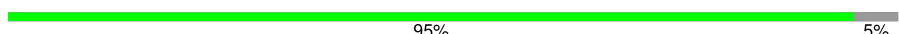
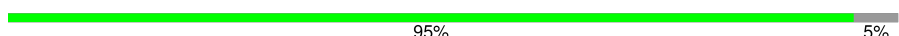
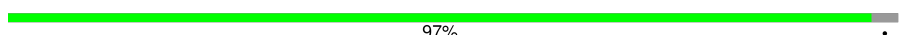
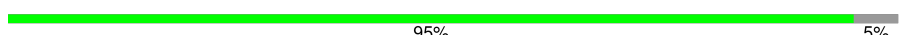
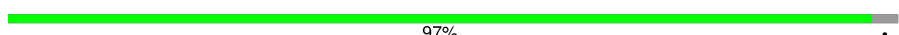
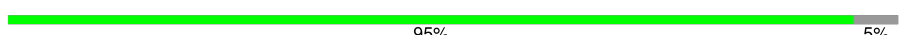

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Mol	Chain	Length	Quality of chain
2	A4	451	 97% 5%
2	A8	451	 95% 5%
2	AT	451	 97% 5%
2	Ag	451	 97% 5%
2	Ai	451	 97% 5%
2	Ak	451	 97% 5%
2	Am	451	 97% 5%
2	Ao	451	 97% 5%
2	At	451	 95% 5%
2	Av	451	 95% 5%
2	Ax	451	 95% 5%
2	Az	451	 95% 5%
2	B0	451	 95% 5%
2	B2	451	 95% 5%
2	B4	451	 95% 5%
2	B7	451	 95% 5%
2	B9	451	 95% 5%
2	BA	451	 95% 5%
2	BF	451	 97% 5%
2	BH	451	 95% 5%
2	BJ	451	 95% 5%
2	BL	451	 95% 5%
2	BN	451	 95% 5%
2	BT	451	 94% 5%
2	BV	451	 95% 5%

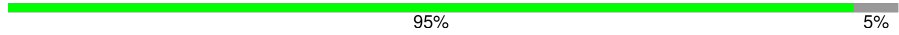
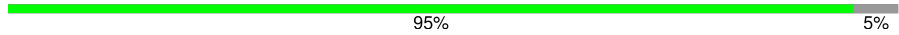
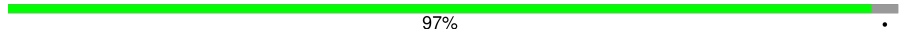
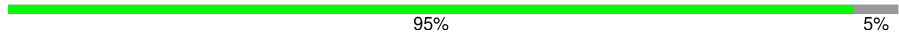
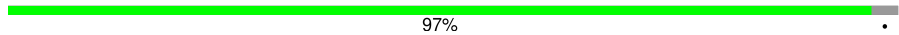
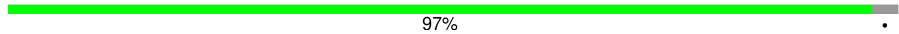
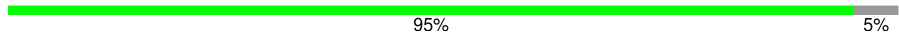
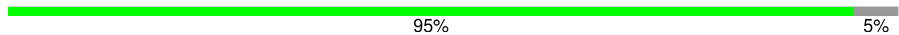
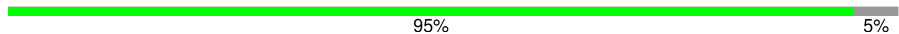
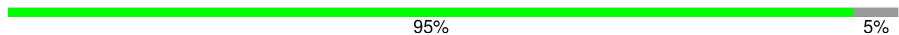
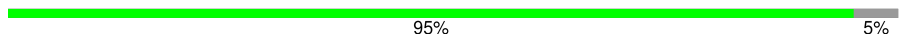
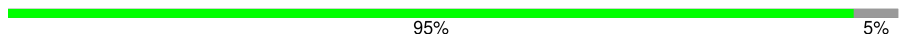


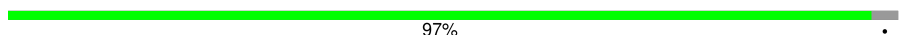
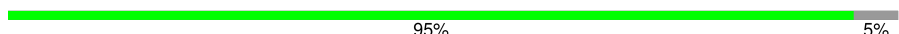
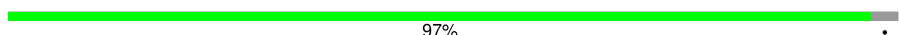
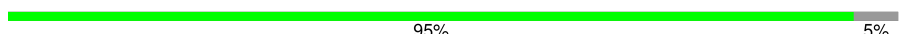
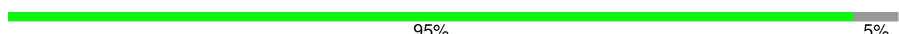
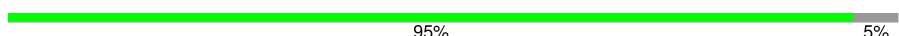
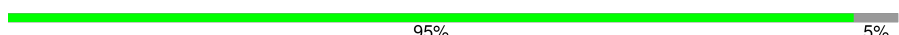
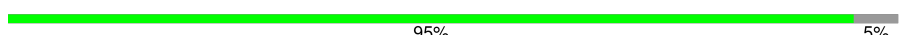
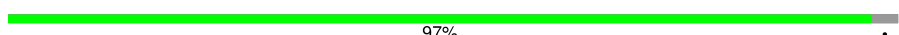
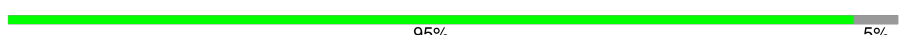

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Mol	Chain	Length	Quality of chain
2	BX	451	 95% 5%
2	BZ	451	 95% 5%
2	Bb	451	 95% 5%
2	Bg	451	 97% .
2	Bi	451	 97% .
2	Bk	451	 98% .
2	Bm	451	 95% 5%
2	Bo	451	 94% 5%
2	Bt	451	 95% 5%
2	Bv	451	 95% 5%
2	Bx	451	 94% 5%
2	Bz	451	 95% 5%
2	C1	451	 95% 5%
2	C3	451	 96% .
2	C5	451	 97% .
2	C7	451	 97% .
2	C9	451	 95% 5%
2	CA	451	 95% 5%
2	CF	451	 95% 5%
2	CH	451	 95% 5%
2	CJ	451	 97% .
2	CL	451	 95% 5%
2	CN	451	 97% .
2	CS	451	 95% 5%
2	CU	451	 95% 5%

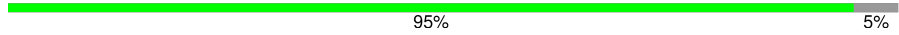
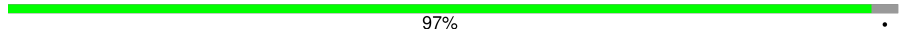
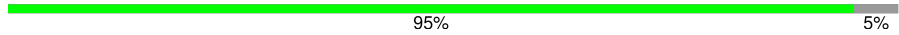
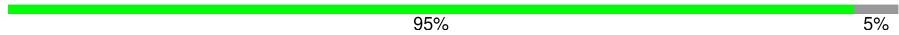
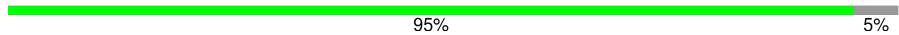
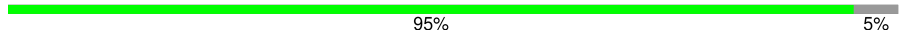
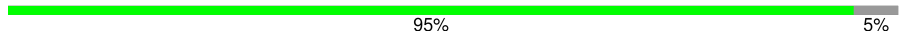
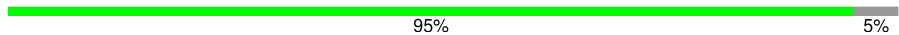
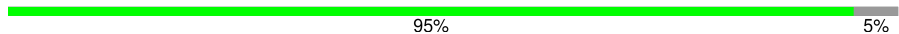
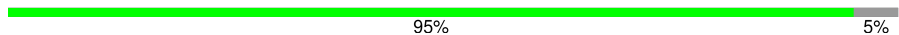
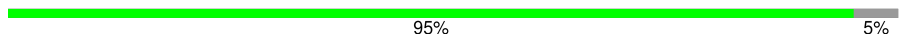
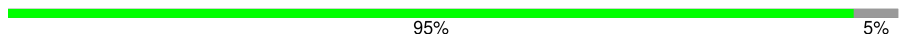



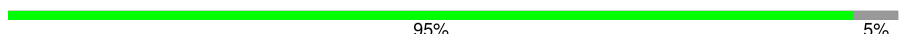
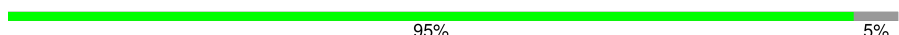
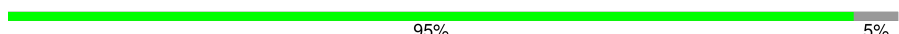
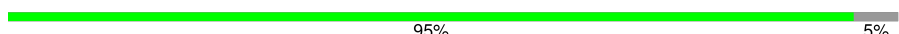
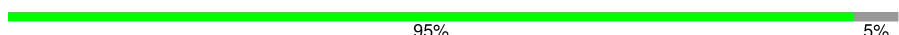
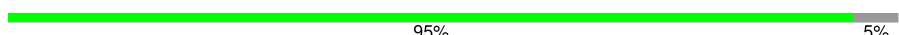
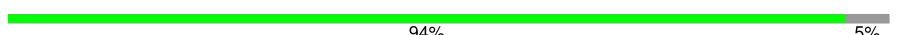
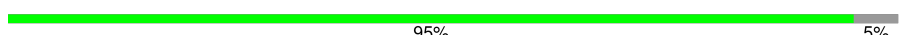
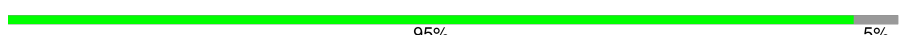

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Mol	Chain	Length	Quality of chain
2	CW	451	 95% 5%
2	CY	451	 95% 5%
2	Cf	451	 97% .
2	Ch	451	 95% 5%
2	Cj	451	 97% .
2	Cl	451	 97% .
2	Cs	451	 95% 5%
2	Cu	451	 95% 5%
2	Cw	451	 95% 5%
2	Cy	451	 95% 5%
2	D1	451	 95% 5%
2	D3	451	 95% 5%
2	D5	451	 95% 5%
2	D7	451	 95% 5%
2	DD	451	 97% .
2	DF	451	 95% 5%
2	DH	451	 97% .
2	DJ	451	 95% 5%
2	DL	451	 95% 5%
2	DN	451	 95% 5%
2	DQ	451	 95% 5%
2	DS	451	 95% 5%
2	DU	451	 97% .
2	DW	451	 95% 5%
2	DY	451	 97% .

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Mol	Chain	Length	Quality of chain
2	Da	451	 95% 5%
2	Dd	451	 97% 5%
2	Df	451	 95% 5%
2	Dh	451	 95% 5%
2	Dj	451	 95% 5%
2	Dl	451	 95% 5%
2	Dq	451	 95% 5%
2	Ds	451	 95% 5%
2	Du	451	 95% 5%
2	Dw	451	 95% 5%
2	Dy	451	 95% 5%
2	E1	451	 95% 5%
2	E3	451	 94% 5%
2	E5	451	 95% 5%
2	E7	451	 95% 5%
2	E9	451	 95% 5%
2	EC	451	 95% 5%
2	EE	451	 95% 5%
2	EG	451	 95% 5%
2	EI	451	 95% 5%
2	EK	451	 95% 5%
2	EP	451	 94% 5%
2	ER	451	 95% 5%
2	ET	451	 95% 5%
2	EV	451	 94% 5%

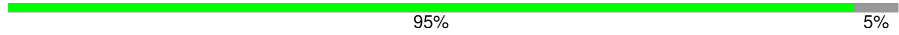
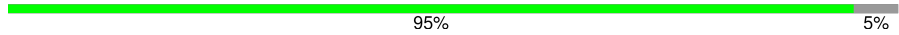
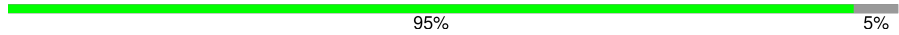
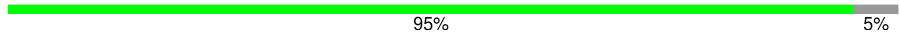
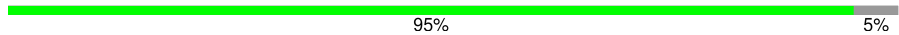
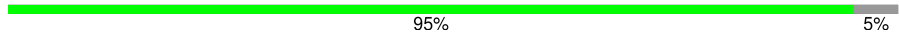
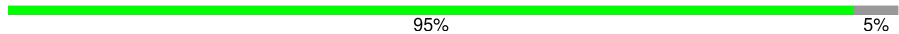
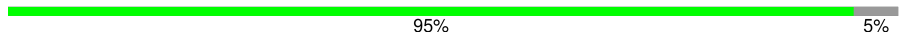
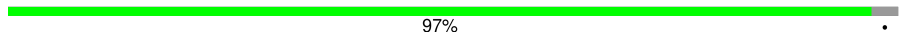
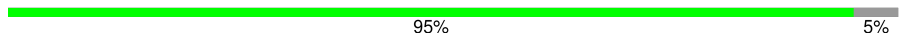
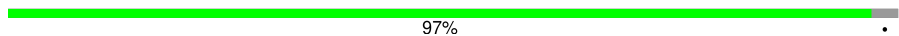
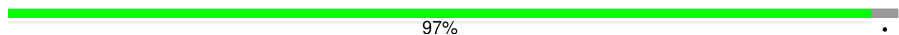



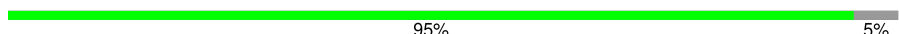
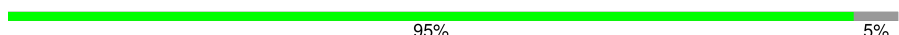
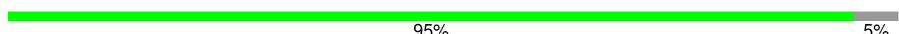
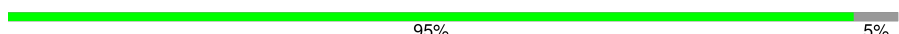
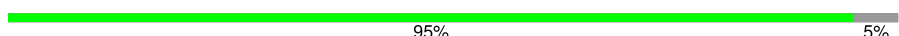
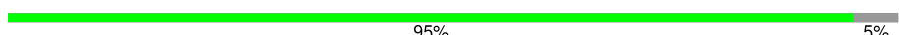
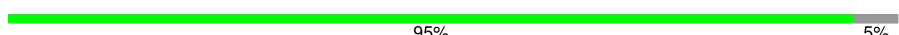
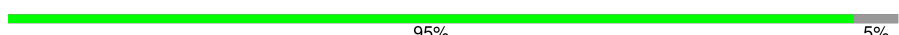
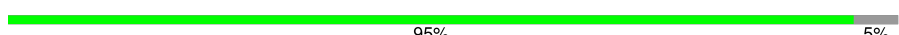

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Mol	Chain	Length	Quality of chain	
2	EX	451	95%	5%
2	Ec	451	94%	5%
2	Ee	451	94%	5%
2	Eg	451	95%	5%
2	Ei	451	95%	5%
2	Ek	451	95%	5%
2	Ep	451	95%	5%
2	Er	451	95%	5%
2	Et	451	95%	5%
2	Ev	451	94%	5%
2	Ex	451	95%	5%
2	F1	451	94%	5%
2	F3	451	95%	5%
2	F5	451	95%	5%
2	F7	451	95%	5%
2	F9	451	97%	5%
2	FD	451	95%	5%
2	FF	451	95%	5%
2	FH	451	95%	5%
2	FJ	451	95%	5%
2	FL	451	95%	5%
2	FQ	451	95%	5%
2	FS	451	95%	5%
2	FU	451	95%	5%
2	FW	451	95%	5%

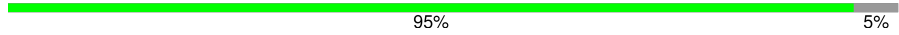
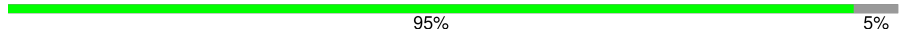
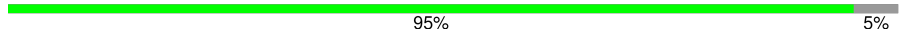
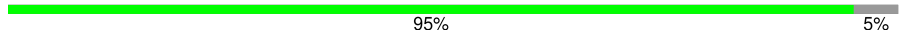
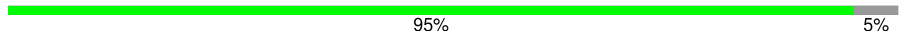
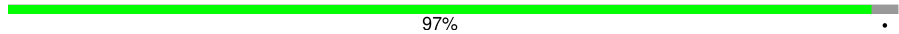
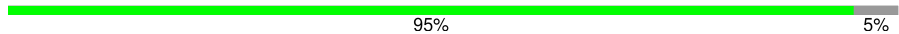
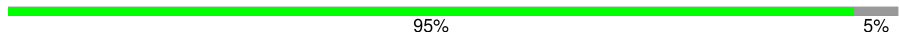
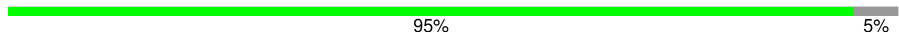
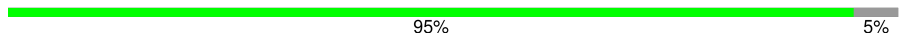
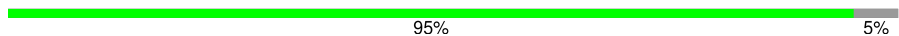
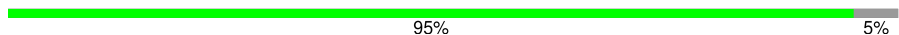



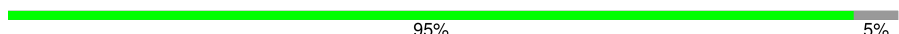
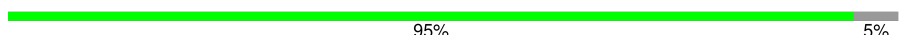
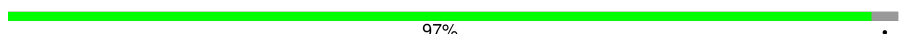
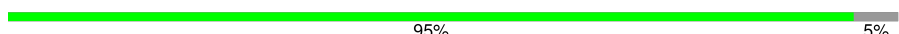
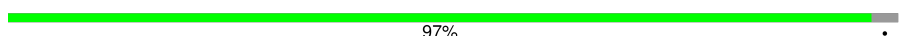
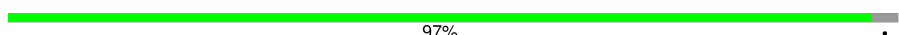
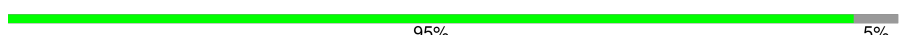
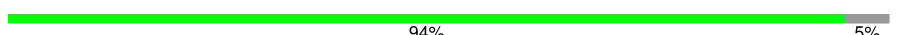
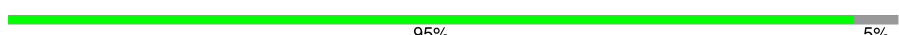

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Mol	Chain	Length	Quality of chain
2	FY	451	 95% 5%
2	Fd	451	 95% 5%
2	Ff	451	 95% 5%
2	Fh	451	 95% 5%
2	Fj	451	 95% 5%
2	Fl	451	 95% 5%
2	Fq	451	 95% 5%
2	Fs	451	 95% 5%
2	Fu	451	 97% .
2	Fw	451	 95% 5%
2	G1	451	 97% .
2	G3	451	 97% .
2	G5	451	 95% 5%
2	G7	451	 95% 5%
2	G9	451	 94% 5%
2	GC	451	 95% 5%
2	GE	451	 95% 5%
2	GG	451	 95% 5%
2	GI	451	 95% 5%
2	H1	451	 95% 5%
2	H3	451	 95% 5%
2	H5	451	 95% 5%
2	H7	451	 95% 5%
2	H9	451	 95% 5%
2	Hu	451	 97% .

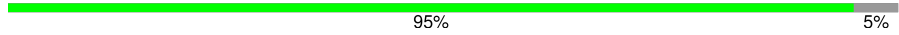
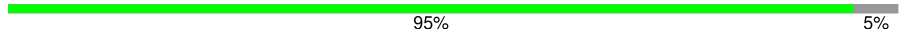
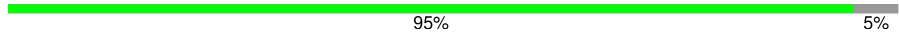
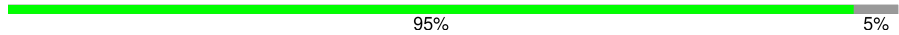
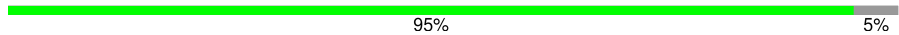
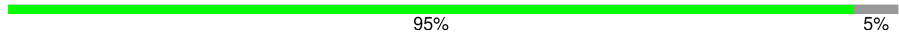
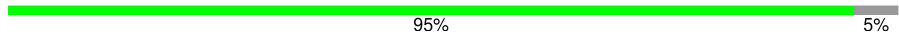
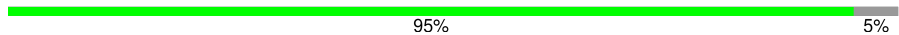
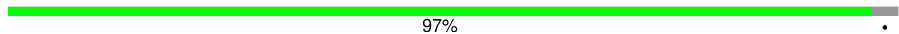
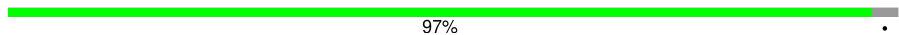
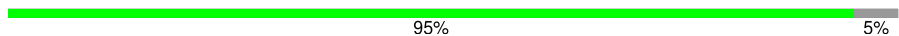
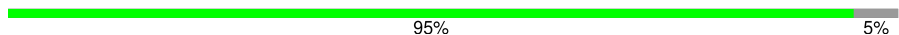




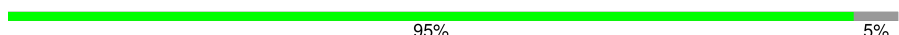
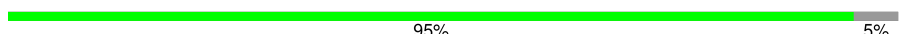
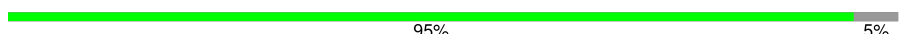
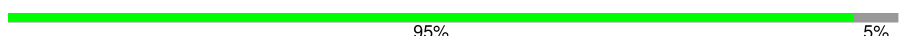
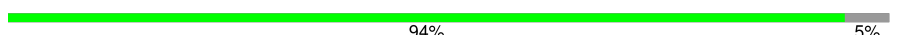
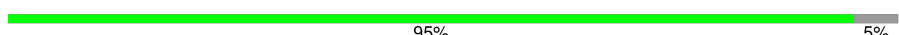
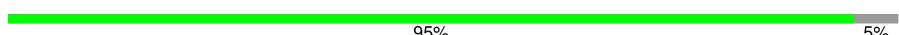
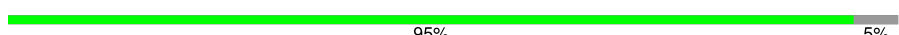

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Mol	Chain	Length	Quality of chain
2	I1	451	 95% 5%
2	I3	451	 95% 5%
2	I5	451	 95% 5%
2	I7	451	 95% 5%
2	I9	451	 95% 5%
2	IL	451	 97% .
2	IV	451	 95% 5%
2	IX	451	 95% 5%
2	IZ	451	 95% 5%
2	Ii	451	 95% 5%
2	Ik	451	 95% 5%
2	Im	451	 95% 5%
2	Iv	451	 95% 5%
2	Ix	451	 95% 5%
2	Iz	451	 95% 5%
2	J1	451	 95% 5%
2	J3	451	 95% 5%
2	J5	451	 97% .
2	J7	451	 95% 5%
2	J9	451	 97% .
2	JI	451	 97% .
2	JK	451	 95% 5%
2	JV	451	 94% 5%
2	JX	451	 95% 5%
2	Ji	451	 97% .

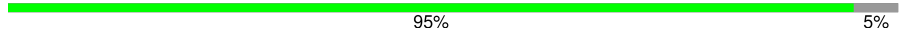
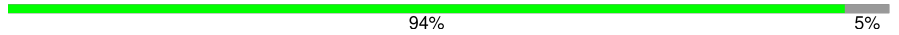
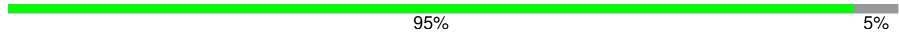
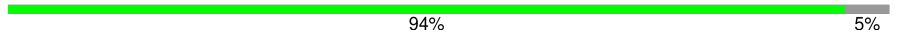
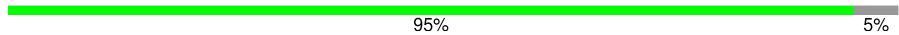
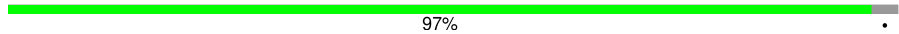
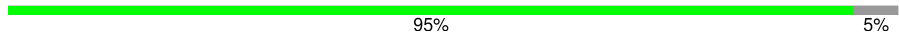
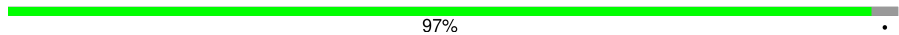
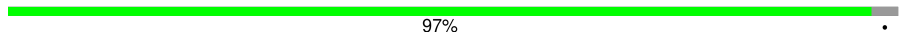
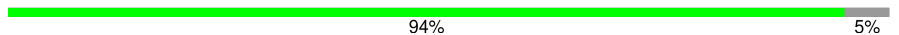
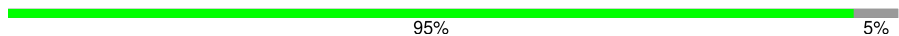
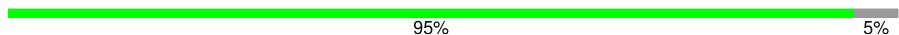



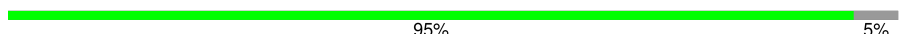
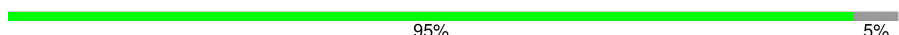
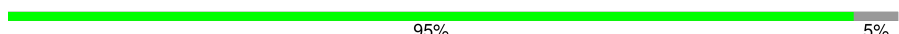
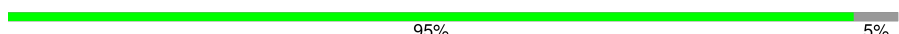
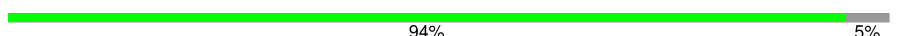
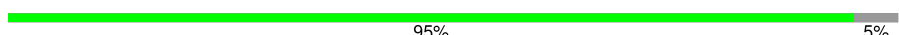
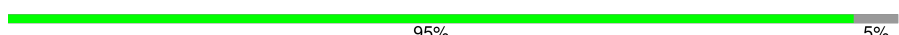
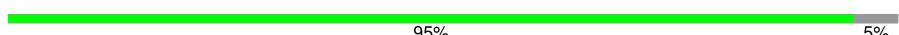
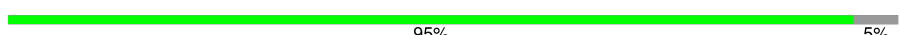

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Mol	Chain	Length	Quality of chain
2	Jk	451	 95% 5%
2	Jv	451	 95% 5%
2	Jx	451	 95% 5%
2	K1	451	 95% 5%
2	K3	451	 95% 5%
2	K5	451	 95% 5%
2	K7	451	 95% 5%
2	K9	451	 95% 5%
2	KI	451	 97% .
2	KK	451	 97% .
2	KV	451	 95% 5%
2	KX	451	 95% 5%
2	Ki	451	 95% 5%
2	Kk	451	 95% 5%
2	Kw	451	 95% 5%
2	Ky	451	 97% .
2	L1	451	 95% 5%
2	L3	451	 95% 5%
2	L5	451	 95% 5%
2	L7	451	 95% 5%
2	L9	451	 94% 5%
2	LI	451	 95% 5%
2	LK	451	 95% 5%
2	LU	451	 95% 5%
2	LW	451	 95% 5%

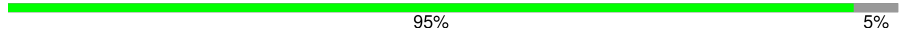
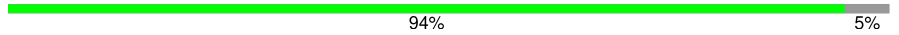
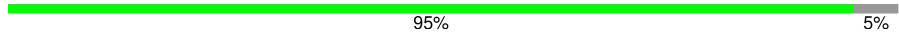
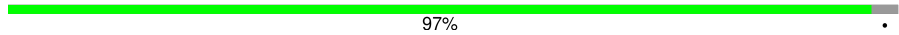
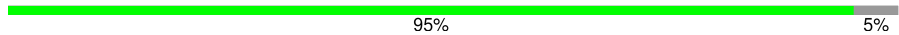
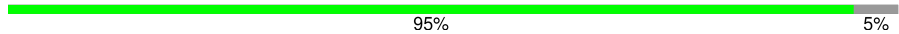
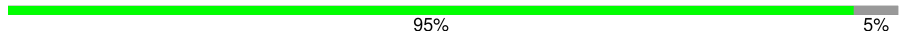
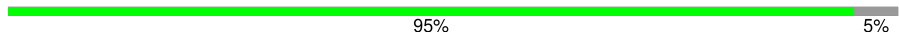
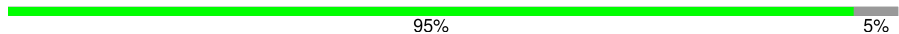
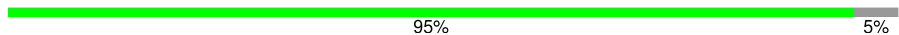
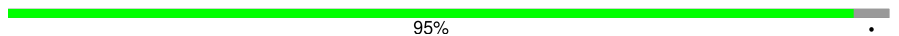
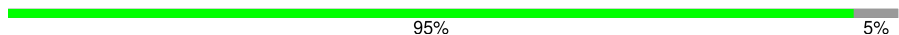




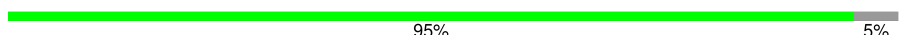
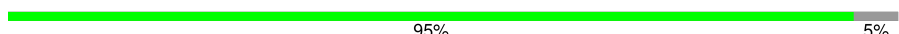
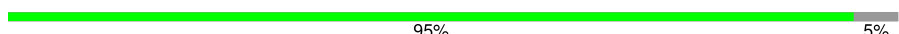
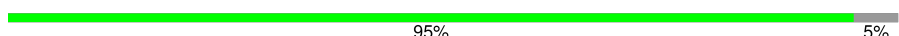
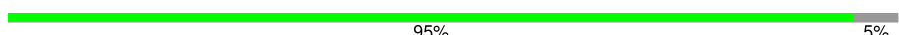
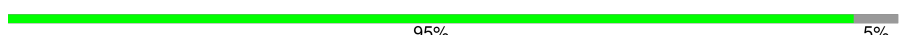
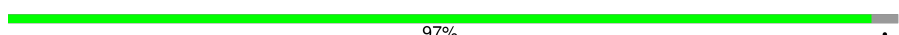
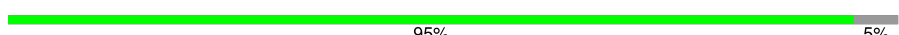

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Mol	Chain	Length	Quality of chain
2	Li	451	 95% 5%
2	Lk	451	 94% 5%
2	Lv	451	 95% 5%
2	Lx	451	 94% 5%
2	M1	451	 95% 5%
2	M3	451	 97% 5%
2	M5	451	 95% 5%
2	M7	451	 97% 5%
2	M9	451	 97% 5%
2	MF	451	 94% 5%
2	MH	451	 95% 5%
2	MJ	451	 95% 5%
2	MS	451	 95% 5%
2	MU	451	 95% 5%
2	MW	451	 95% 5%
2	Mf	451	 95% 5%
2	Mh	451	 95% 5%
2	Mj	451	 95% 5%
2	Ms	451	 95% 5%
2	Mu	451	 94% 5%
2	Mw	451	 95% 5%
2	N1	451	 95% 5%
2	N3	451	 95% 5%
2	N5	451	 95% 5%
2	N7	451	 95% 5%

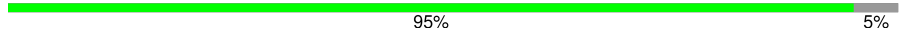
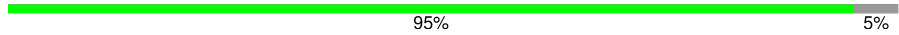
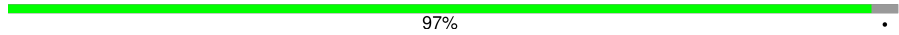
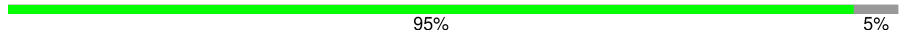
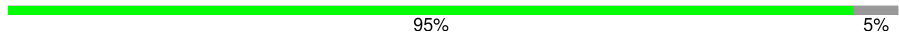
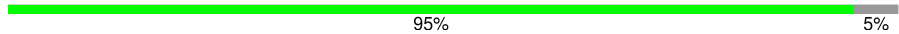
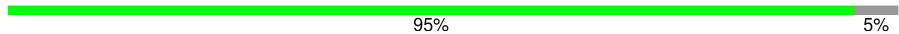
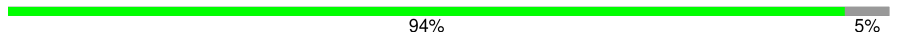
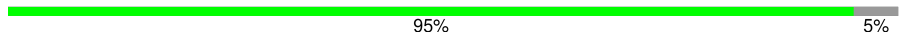
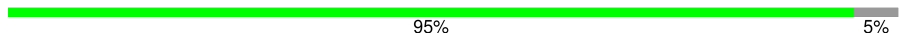
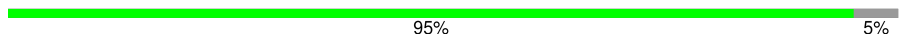
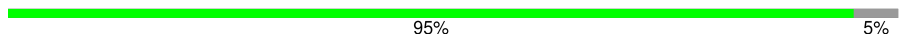



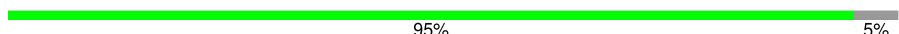
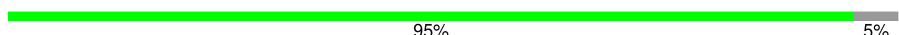
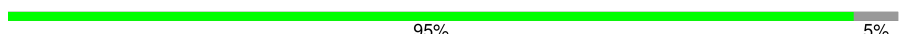
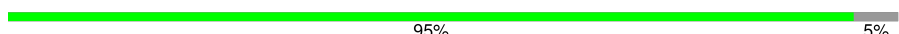
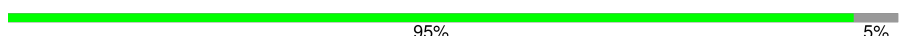
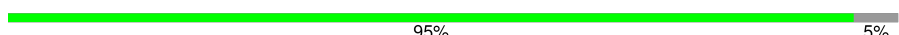
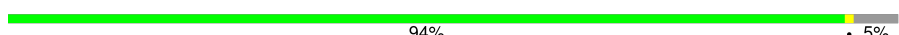
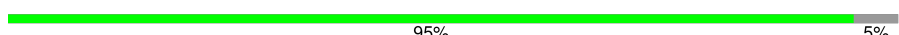
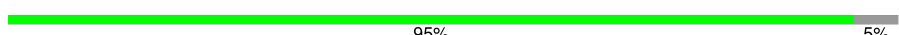

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Mol	Chain	Length	Quality of chain
2	N9	451	 95% 5%
2	NG	451	 94% 5%
2	NI	451	 95% 5%
2	NT	451	 97% 5%
2	NV	451	 95% 5%
2	Ng	451	 95% 5%
2	Ni	451	 95% 5%
2	O1	451	 95% 5%
2	O3	451	 95% 5%
2	O5	451	 95% 5%
2	O7	451	 95% 5%
2	O9	451	 95% 5%
2	P3	451	 95% 5%
2	P5	451	 97% 5%
2	P7	451	 95% 5%
2	P9	451	 97% 5%
2	Q1	451	 95% 5%
2	Q3	451	 95% 5%
2	Q5	451	 95% 5%
2	Q9	451	 95% 5%
2	R1	451	 95% 5%
2	R3	451	 95% 5%
2	R5	451	 97% 5%
2	R7	451	 95% 5%
2	R9	451	 97% 5%

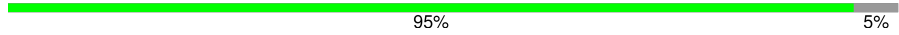
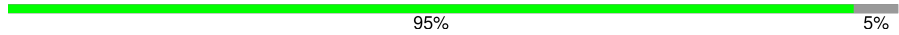
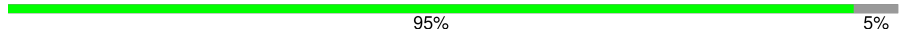
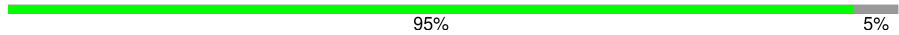
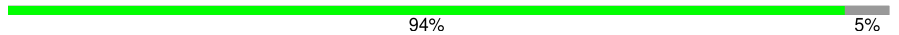
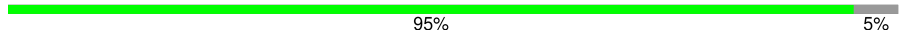
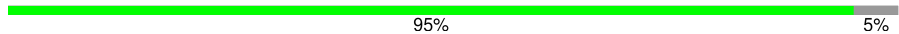
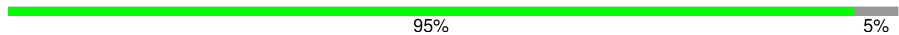
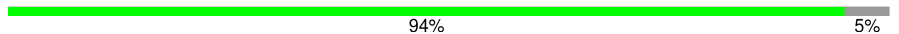
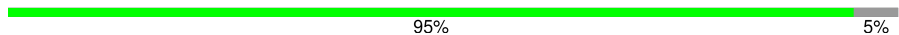
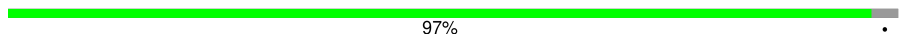
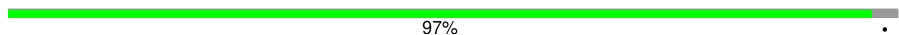
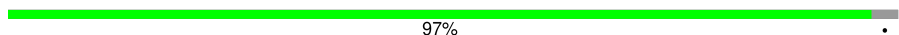

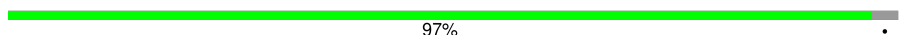

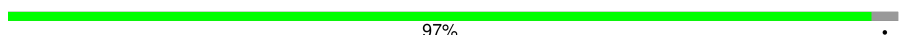
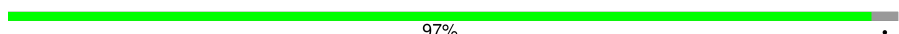
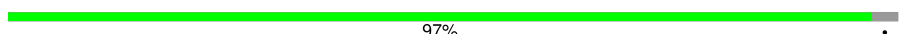
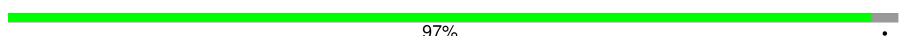
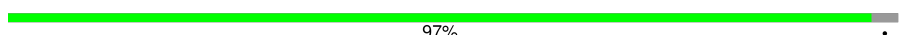
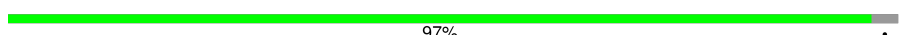
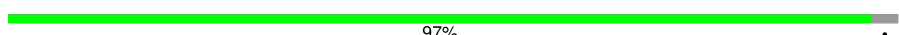
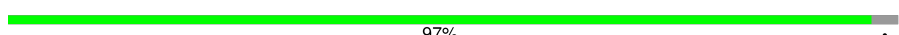

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Mol	Chain	Length	Quality of chain
2	S1	451	 95% 5%
2	S5	451	 95% 5%
2	S7	451	 97% 5%
2	S9	451	 95% 5%
2	T1	451	 95% 5%
2	T3	451	 95% 5%
2	T5	451	 95% 5%
2	T7	451	 94% 5%
2	U1	451	 95% 5%
2	U3	451	 95% 5%
2	U5	451	 95% 5%
2	U7	451	 95% 5%
2	U9	451	 95% 5%
2	V1	451	 95% 5%
2	V3	451	 95% 5%
2	V7	451	 95% 5%
2	V9	451	 95% 5%
2	W1	451	 95% 5%
2	W3	451	 95% 5%
2	W5	451	 95% 5%
2	W7	451	 95% 5%
2	W9	451	 94% 5%
2	X3	451	 95% 5%
2	X5	451	 95% 5%
2	X7	451	 95% 5%

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Mol	Chain	Length	Quality of chain
2	X9	451	 95% 5%
2	Y1	451	 95% 5%
2	Y3	451	 95% 5%
2	Y5	451	 95% 5%
2	Y9	451	 94% 5%
2	Z1	451	 95% 5%
2	Z3	451	 95% 5%
2	Z5	451	 95% 5%
2	Z7	451	 94% 5%
2	Z9	451	 95% 5%
3	3V	307	 97% .
3	3X	307	 97% .
3	3Z	307	 97% .
3	4B	307	 97% .
3	4D	307	 97% .
3	4F	307	 97% .
3	4H	307	 97% .
3	4J	307	 97% .
3	GP	307	 97% .
3	GR	307	 97% .
3	GT	307	 97% .
3	GV	307	 97% .
3	GX	307	 97% .
3	Nt	307	 97% .
3	Nv	307	 97% .








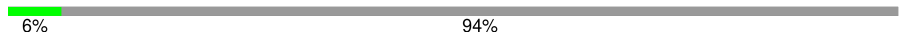


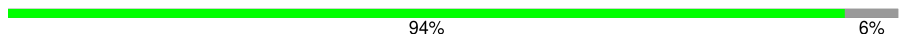





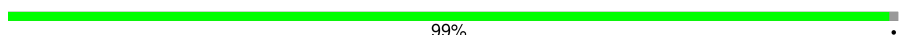
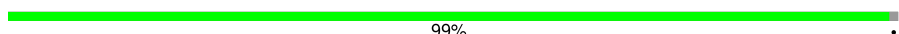

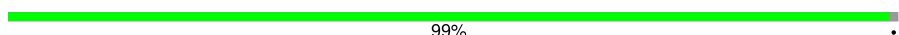



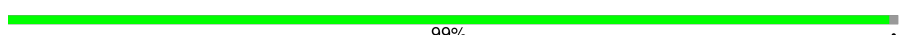

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Mol	Chain	Length	Quality of chain
4	3W	190	97%
4	3Y	190	97%
4	4A	190	97%
4	4C	190	97%
4	4E	190	97%
4	4G	190	97%
4	4I	190	97%
4	GO	190	96%
4	GQ	190	97%
4	GS	190	97%
4	GU	190	97%
4	GW	190	97%
4	Ns	190	97%
4	Nu	190	97%
4	Nw	190	97%
5	4O	504	95% 5%
5	5D	504	95% 5%
5	Gd	504	24% 76%
5	OA	504	33% 67%
6	4Q	475	36% 64%
6	4W	475	81% 19%
6	Nz	475	68% 32%
7	4R	367	100%
7	Ga	367	100%
7	Gf	367	95% 5%

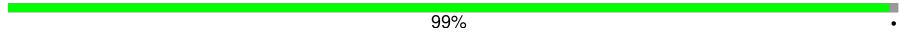
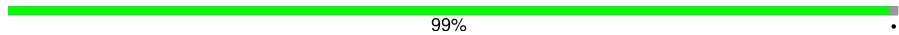
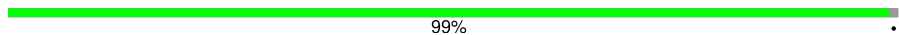



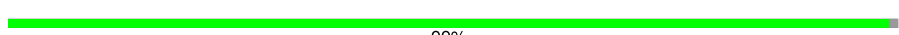




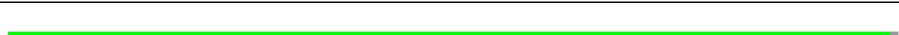

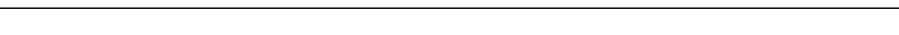
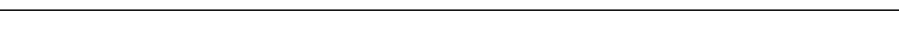
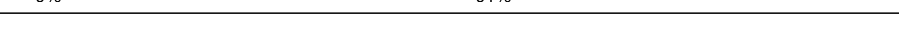

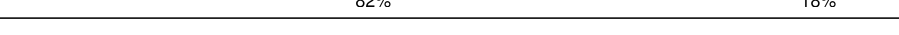






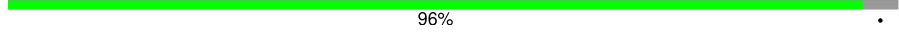
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Mol	Chain	Length	Quality of chain
7	Gi	367	 56% 44%
7	Gj	367	 92% 8%
7	OG	367	 54% 46%
8	4X	501	 75% 25%
8	5C	501	 74% 26%
8	Go	501	 42% 58%
8	Gp	501	 74% 25%
8	Gq	501	 6% 94%
8	OD	501	 74% 26%
8	OO	501	 32% 68%
9	5E	274	 94% 6%
9	Gr	274	 94% 6%
9	OQ	274	 38% 62%
10	5F	390	 98%
10	7B	390	 45% 55%
10	Gs	390	 80% 20%
11	5H	137	 99%
11	5I	137	 99%
11	5J	137	 99%
11	5K	137	 99%
11	Gv	137	 99%
11	Gw	137	 99%
11	Gx	137	 70% 30%
11	OV	137	 99%
12	5L	633	 99%

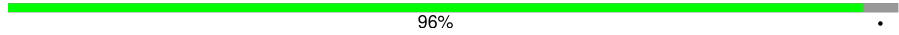
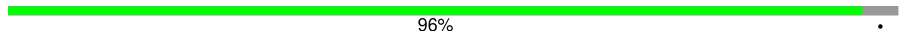
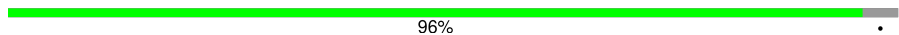

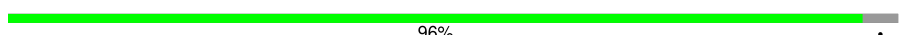

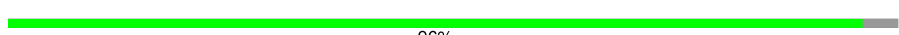




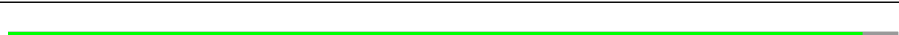

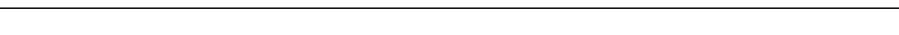
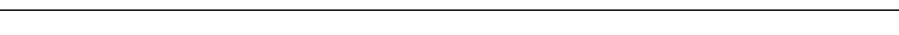
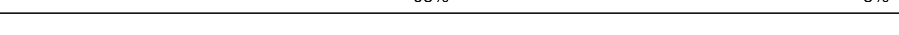

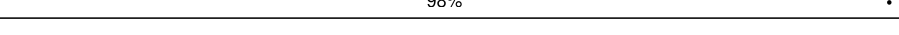
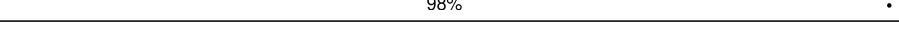
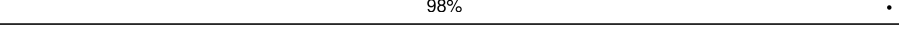
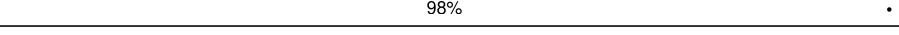
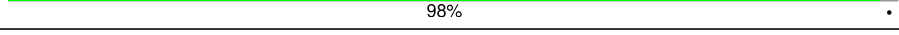



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Mol	Chain	Length	Quality of chain
12	5M	633	 99%
12	5N	633	 99%
12	Ad	633	 99%
12	Ae	633	 99%
12	Af	633	 99%
12	Eo	633	 99%
12	HG	633	 99%
13	5O	380	 99%
13	5P	380	 99%
13	Gy	380	 99%
13	Gz	380	 99%
13	OY	380	 99%
14	5Q	197	 97%
14	HA	197	 97%
14	OZ	197	 9% 91%
15	5S	240	 83% 17%
15	5T	240	 82% 18%
15	5U	240	 83% 17%
15	5V	240	 82% 18%
15	HD	240	 82% 18%
15	HE	240	 82% 17%
15	Oc	240	 27% 73%
15	Od	240	 82% 17%
16	5X	230	 96%
16	5Y	230	 96%

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Mol	Chain	Length	Quality of chain
16	5Z	230	 96% .
16	6A	230	 96% .
16	6B	230	 96% .
16	6C	230	 96% .
16	6D	230	 96% .
16	HH	230	 96% .
16	HI	230	 96% .
16	HJ	230	 96% .
16	HK	230	 96% .
16	HL	230	 96% .
16	Oi	230	 96% .
16	Oj	230	 96% .
16	Ok	230	 96% .
17	6E	268	 95% 5%
17	HN	268	 95% 5%
17	Om	268	 50% 50%
18	6F	403	 98% .
18	HO	403	 98% .
18	On	403	 98% .
18	zp	403	 98% .
18	zq	403	 98% .
19	6G	214	 86% 14%
19	6H	214	 90% 10%
19	HP	214	 86% 14%
19	HQ	214	 90% 10%

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Mol	Chain	Length	Quality of chain	
19	Op	214	90%	10%
20	6I	352	93%	7%
20	6J	352	93%	7%
20	6K	352	93%	7%
20	6L	352	93%	7%
20	6M	352	93%	7%
20	6N	352	93%	7%
20	6O	352	93%	7%
20	6P	352	93%	7%
20	HS	352	93%	7%
20	HT	352	93%	7%
20	HU	352	93%	7%
20	HV	352	93%	7%
20	HW	352	63%	37%
20	Ot	352	28%	72%
20	Ou	352	93%	7%
20	Ov	352	93%	7%
21	6Q	87	98%	.
21	6R	87	98%	.
21	6S	87	98%	.
21	HY	87	98%	.
21	HZ	87	98%	.
21	Ha	87	98%	.
21	Oy	87	98%	.
21	Oz	87	98%	.

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Mol	Chain	Length	Quality of chain	
22	6T	635	92%	8%
22	6U	635	91%	9%
22	6V	635	89%	11%
22	6W	635	91%	9%
22	6X	635	89%	11%
22	6Y	635	88%	12%
22	6Z	635	92%	8%
22	Hb	635	91%	9%
22	Hc	635	89%	11%
22	Hd	635	91%	9%
22	He	635	89%	11%
22	Hf	635	88%	12%
22	Hg	635	7%	93%
22	PD	635	67%	33%
22	PE	635	89%	11%
22	PF	635	88%	12%
23	7C	111	75%	25%
23	Hj	111	74%	25%
24	7D	146	90%	10%
24	7E	146	90%	10%
24	Hk	146	90%	10%
24	Hl	146	90%	10%
24	PK	146	90%	10%
25	7G	235	95%	5%
25	Hn	235	95%	5%




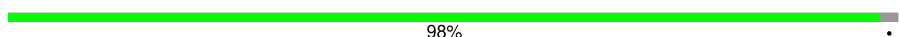
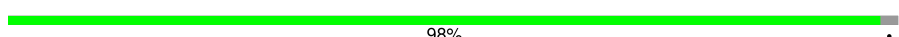
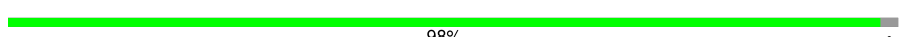
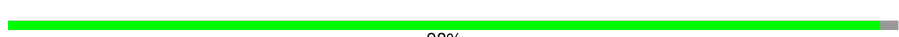






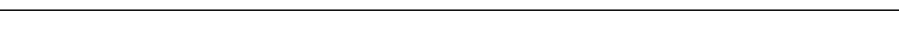
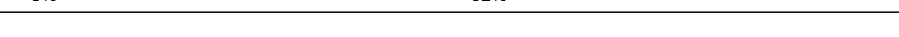
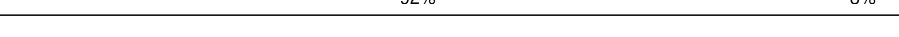
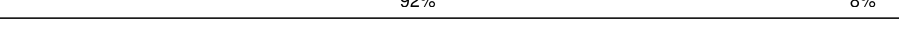
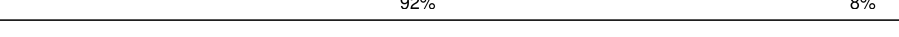
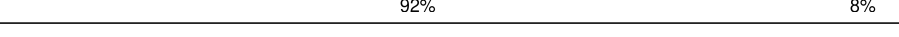
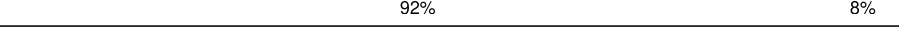
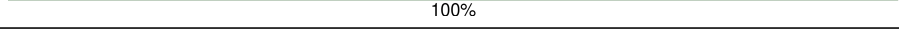
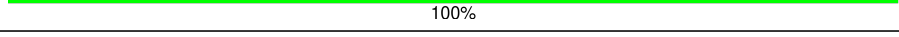
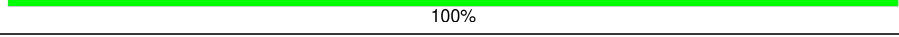

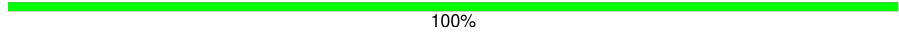
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Mol	Chain	Length	Quality of chain	
26	7H	471	93%	7%
26	7X	471	93%	7%
27	7I	483	91%	9%
27	7J	483	75%	25%
27	Hp	483	48%	52%
28	7K	458	92%	8%
28	Hq	458	92%	8%
28	Hr	458	23%	77%
28	PQ	458	24%	76%
29	7M	139	91%	9%
29	7N	139	90%	9%
29	Ht	139	55%	45%
30	7P	238	83%	17%
30	Hv	238	72%	28%
30	PV	238	83%	17%
31	7Q	189	38%	62%
31	Hw	189	38%	62%
31	PW	189	38%	62%
31	zn	189	22%	78%
31	zo	189	22%	78%
32	7Y	312	79%	21%
32	ID	312	79%	21%
32	Pe	312	67%	33%
33	8B	242	88%	12%
33	8C	242	88%	12%





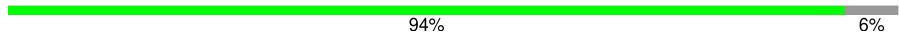
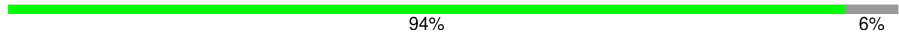
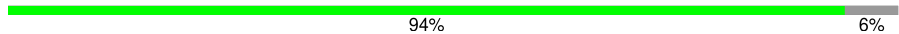
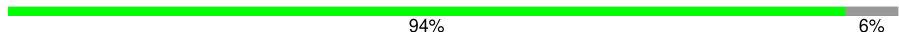
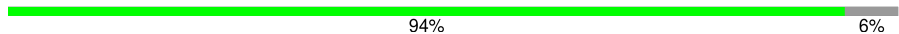

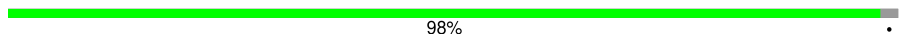
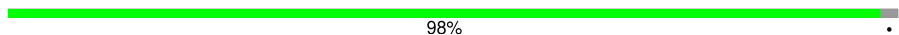
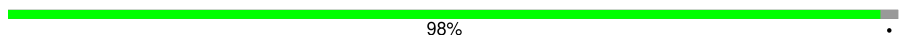


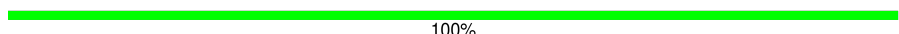
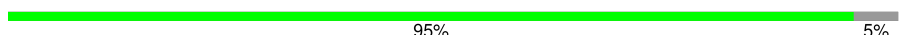
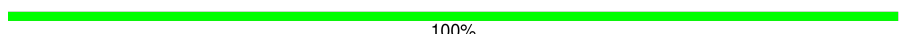
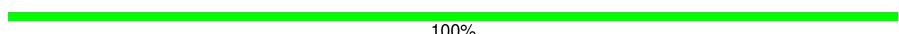
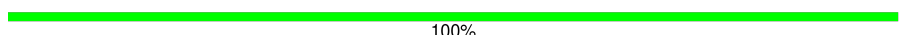
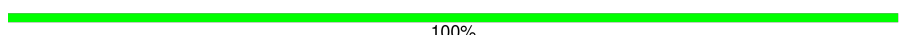




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Mol	Chain	Length	Quality of chain
33	IG	242	 88% 12%
33	IH	242	 88% 12%
33	Pi	242	 88% 12%
34	AA	198	 98% .
34	Cb	198	 98% .
34	Gg	198	 98% .
34	Ll	198	 98% .
35	AB	749	 54% 46%
35	AY	749	 54% 46%
35	Fb	749	 44% 56%
35	MM	749	 21% 79%
35	MR	749	 54% 46%
35	MY	749	 27% 73%
35	Ma	749	 8% 92%
36	AC	184	 92% 8%
36	AZ	184	 92% 8%
36	Fn	184	 92% 8%
36	LN	184	 92% 8%
36	MO	184	 92% 8%
37	AD	4485	 100%
37	AX	4485	 100%
37	Fa	4485	 100%
37	Ks	4485	 26% 74%
37	Lo	4485	 100%
38	AE	760	 83% 17%



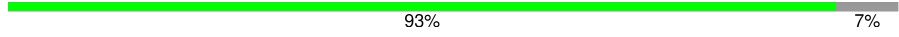
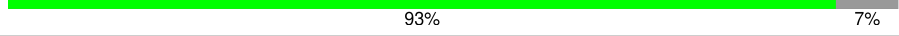

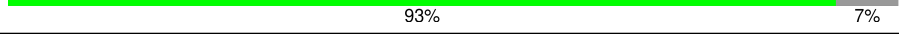


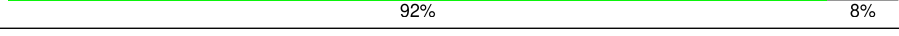
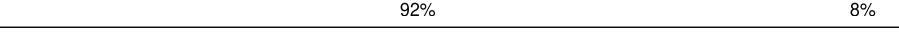
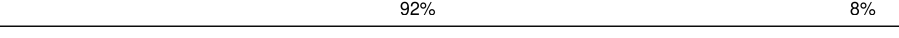
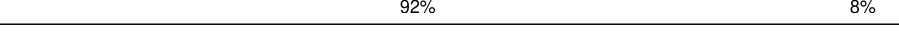
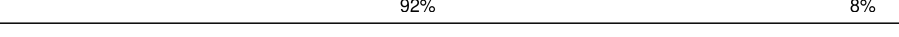
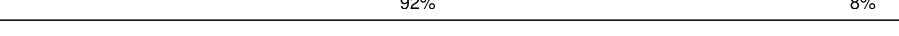
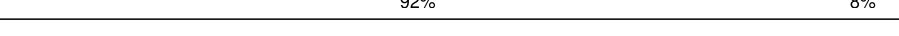
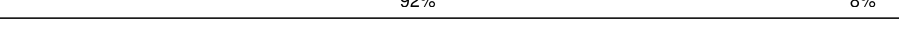
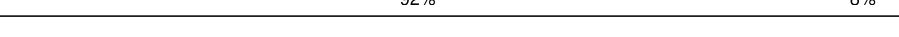
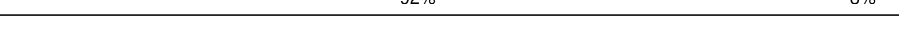
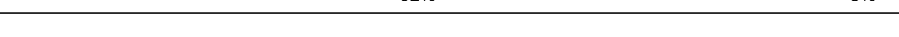






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Mol	Chain	Length	Quality of chain
39	AF	1057	 51% 49%
40	AG	1024	 71% 29%
41	AH	294	 62% 38%
42	AI	100	 100%
42	Bc	100	 94% 6%
42	Bd	100	 94% 6%
42	GY	100	 94% 6%
42	LC	100	 94% 6%
42	MA	100	 94% 6%
43	AK	105	 100%
43	BQ	105	 98% .
43	BR	105	 98% .
43	GN	105	 98% .
43	L8	105	 98% .
43	LB	105	 98% .
44	AL	91	 100%
44	AM	91	 95% 5%
44	AN	91	 100%
44	AO	91	 100%
44	AP	91	 100%
44	AQ	91	 100%
44	Be	91	 90% 10%
44	Bp	91	 90% 10%
44	Bq	91	 90% 10%
44	Br	91	 90% 10%

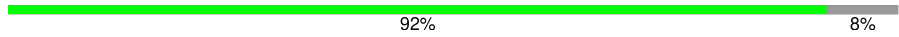









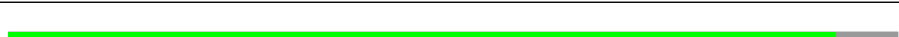


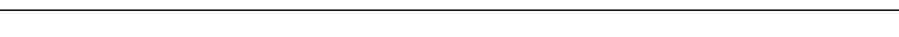
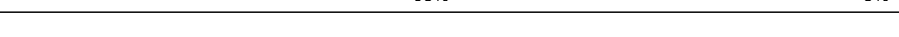
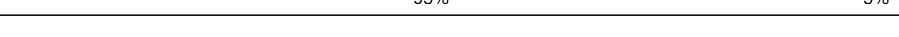
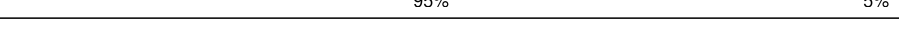
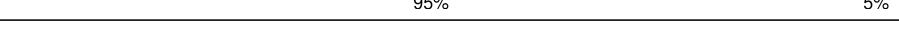
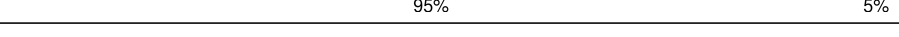
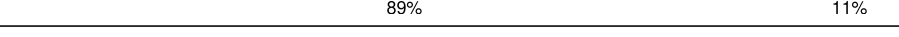





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Mol	Chain	Length	Quality of chain
44	CB	91	 89% 10%
44	CC	91	 90% 10%
44	CD	91	 93% 7%
44	CO	91	 93% 7%
44	FA	91	 90% 10%
44	FB	91	 93% 7%
44	GZ	91	 90% 10%
44	Ge	91	 90% 10%
44	I6	91	 92% 8%
44	Io	91	 92% 8%
44	Ip	91	 92% 8%
44	Iq	91	 92% 8%
44	Ir	91	 92% 8%
44	Is	91	 92% 8%
44	It	91	 92% 8%
44	Iu	91	 92% 8%
44	KM	91	 92% 8%
44	KN	91	 92% 8%
44	KO	91	 92% 8%
44	KP	91	 92% 8%
44	KQ	91	 92% 8%
44	KR	91	 92% 8%
44	KS	91	 92% 8%
44	KT	91	 92% 8%
44	Kc	91	 92% 8%

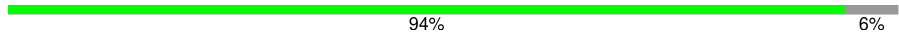
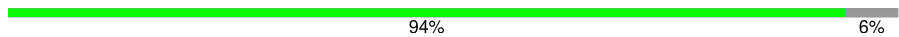
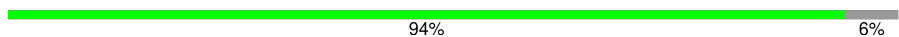
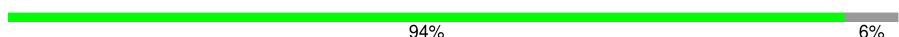
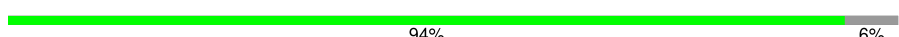





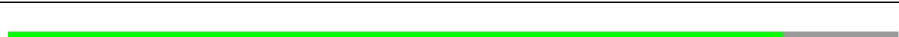


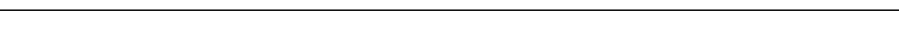
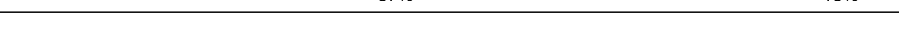
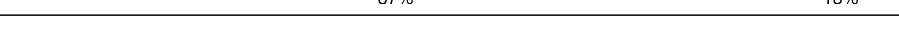



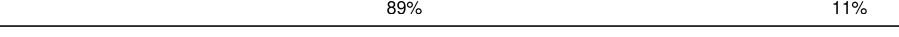

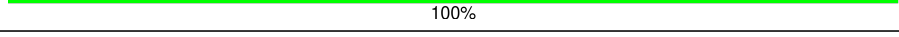
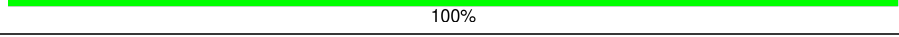
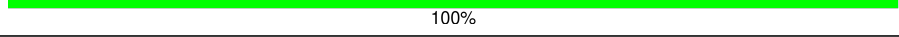
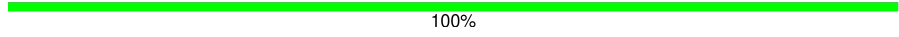
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Mol	Chain	Length	Quality of chain
44	Kd	91	 92% 8%
44	Ke	91	 92% 8%
44	Kf	91	 92% 8%
44	LD	91	 90% 10%
44	LE	91	 90% 10%
44	LF	91	 90% 10%
44	LG	91	 93% 7%
44	MB	91	 90% 10%
44	MC	91	 90% 10%
44	MD	91	 90% 10%
44	ME	91	 93% 7%
45	AR	114	 100%
46	AS	120	 100%
47	AU	103	 95% 5%
47	Ca	103	 95% 5%
47	FN	103	 95% 5%
47	LM	103	 95% 5%
47	ML	103	 95% 5%
48	AV	308	 89% 11%
49	AW	576	 71% 29%
50	Aa	683	 86% 14%
50	Ab	683	 86% 14%
50	Fo	683	 86% 14%
50	Kt	683	 86% 14%
50	Lp	683	 86% 14%








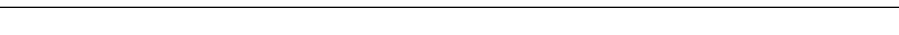
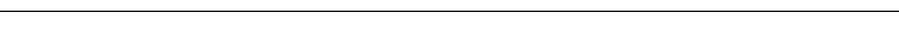
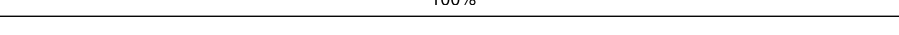
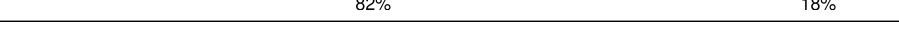
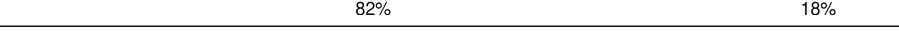
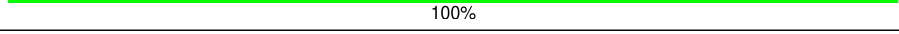
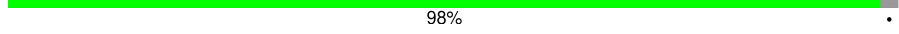
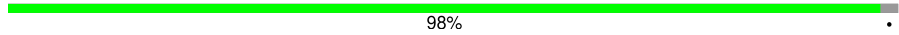
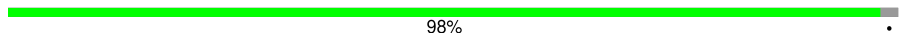
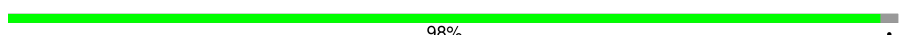
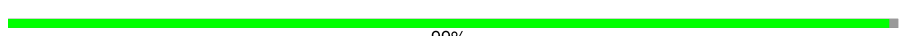





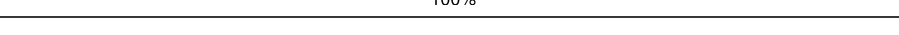
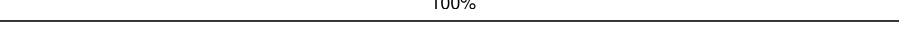
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Mol	Chain	Length	Quality of chain
51	Ac	567	 94% 6%
51	Aq	567	 94% 6%
51	Fz	567	 94% 6%
51	Ku	567	 94% 6%
51	Lq	567	 94% 6%
52	Ar	136	 92% 8%
52	As	136	 91% 8%
52	GA	136	 92% 8%
52	Kz	136	 92% 8%
52	Lr	136	 92% 8%
53	BC	159	 87% 13%
53	BD	159	 87% 13%
53	GL	159	 87% 13%
53	K2	159	 87% 13%
53	Lt	159	 87% 13%
54	BE	120	 89% 11%
54	BP	120	 89% 11%
54	GM	120	 89% 11%
54	LA	120	 89% 11%
54	Lz	120	 89% 11%
55	CP	117	 100%
55	CQ	117	 100%
55	FM	117	 100%
55	LL	117	 100%
55	MK	117	 100%

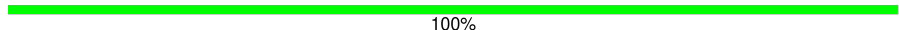
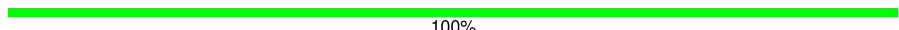
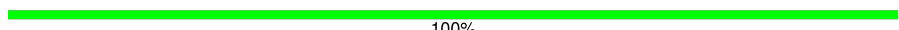
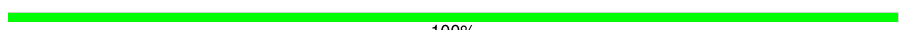






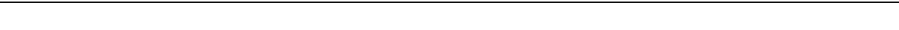

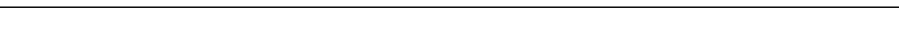
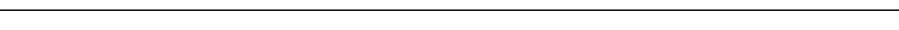
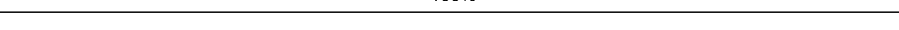
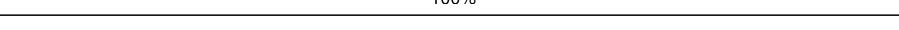
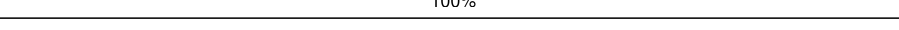
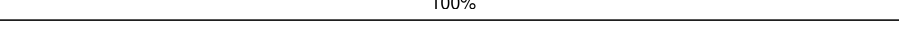

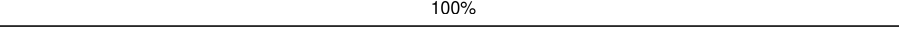
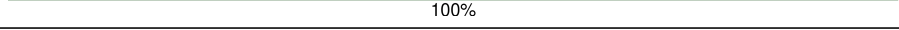
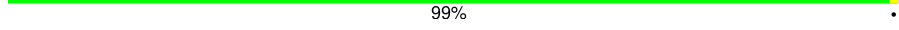
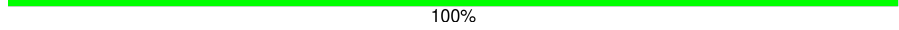

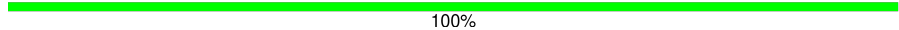
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Mol	Chain	Length	Quality of chain
56	Cc	552	 73% 27%
56	Cd	552	 73% 27%
56	Gk	552	 60% 40%
56	MN	552	 34% 66%
56	MX	552	 73% 27%
56	MZ	552	 39% 61%
56	Mb	552	 10% 90%
57	Cn	4625	 97%
58	Co	4513	 100%
59	Cp	1316	 82% 18%
59	Cq	1316	 82% 18%
60	D9	238	 100%
61	DA	4503	 98%
61	DP	4503	 98%
61	Gl	4503	 98%
61	Lm	4503	 98%
62	DB	4568	 99%
62	Db	4568	 99%
62	Gt	4568	 99%
62	Kr	4568	 17% 83%
62	Ln	4568	 99%
63	DC	129	 100%
63	Dc	129	 100%
63	HB	129	 100%
63	Ly	129	 100%

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Mol	Chain	Length	Quality of chain
64	DO	156	 100%
64	Dn	156	 100%
64	Gu	156	 100%
64	Ls	156	 100%
65	Do	2141	 72% 28%
65	MP	2141	 96%
66	Dp	1950	 82% 17%
66	MQ	1950	 6% 94%
67	EA	698	 84% 16%
68	EB	573	 80% 20%
69	EM	260	 80% 20%
70	EN	471	 95% 5%
70	EO	471	 99%
71	EZ	166	 100%
71	HF	166	 100%
71	HM	166	 100%
72	Ea	836	 100%
73	Eb	1598	 85% 15%
74	Em	524	 100%
75	En	406	 100%
76	Ey	356	 99%
77	Ez	390	 100%
78	F4	409	 85% 15%
79	FO	163	 100%
79	JC	163	 88% 12%

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Mol	Chain	Length	Quality of chain
80	FZ	169	100%
80	Md	169	100%
80	Ml	169	89% 11%
81	Fm	4191	94% 6%
82	Fy	490	65% 35%
83	GK	237	100%
84	Gb	482	56% 44%
84	Ny	482	7% 93%
84	OL	482	98% .
84	ON	482	98% .
85	Gc	462	93% 7%
85	Gm	462	69% 31%
85	Gn	462	52% 48%
86	Gh	377	100%
86	JD	377	100%
86	Km	377	98% .
86	Ld	377	100%
86	Mc	377	100%
86	Mk	377	100%
87	H0	521	93% 7%
87	Hz	521	93% 7%
87	JT	521	93% 7%
87	JZ	521	93% 7%
88	HX	814	92% 8%
88	Hh	814	92% 8%

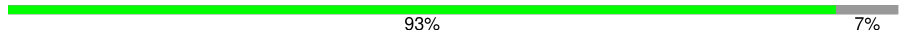
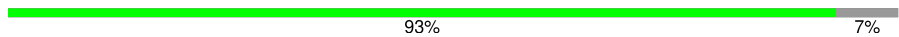

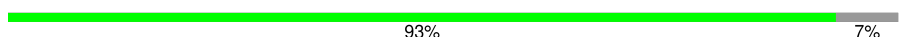






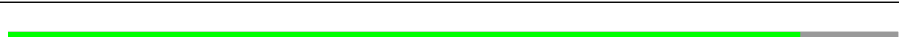


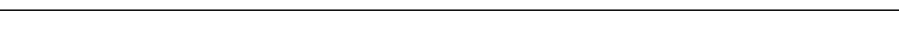
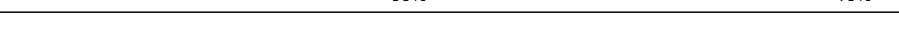
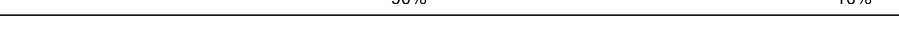
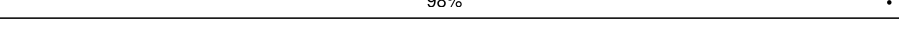


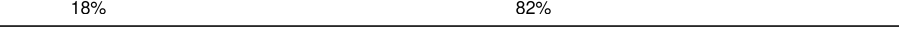





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Mol	Chain	Length	Quality of chain	
88	JH	814	92%	8%
88	JM	814	92%	8%
89	Hi	738	58%	42%
89	Hm	738	58%	42%
89	JN	738	58%	42%
89	JO	738	58%	42%
90	Ho	516	56%	44%
90	Hs	516	56%	44%
90	JP	516	60%	40%
90	JQ	516	64%	36%
91	Hx	465	91%	9%
91	Hy	465	91%	9%
91	JR	465	91%	9%
91	JS	465	91%	9%
92	IA	459	93%	7%
92	IB	459	93%	7%
92	Ja	459	93%	7%
92	Jb	459	93%	7%
93	IC	500	9%	91%
93	IE	500	8%	92%
93	KD	500	9%	91%
93	KE	500	8%	92%
94	IF	269	93%	7%
94	II	269	93%	7%
94	IJ	269	93%	7%

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Mol	Chain	Length	Quality of chain
94	IN	269	 93% 7%
94	Jc	269	 93% 7%
94	Jd	269	 93% 7%
94	Je	269	 93% 7%
94	Jf	269	 93% 7%
95	IO	216	 92% 8%
95	IP	216	 92% 8%
95	Jg	216	 92% 8%
95	Jm	216	 92% 8%
96	IQ	204	 24% 76%
96	IR	204	 89% 11%
96	KF	204	 24% 76%
96	KG	204	 78% 22%
97	IS	181	 90% 10%
97	Jn	181	 90% 10%
98	IT	387	 98% 2%
99	IU	346	 62% 38%
99	Ia	346	 62% 38%
99	Ih	346	 18% 82%
99	In	346	 18% 82%
99	Jo	346	 62% 38%
99	Jp	346	 62% 38%
99	KA	346	 18% 82%
99	KB	346	 18% 82%
100	Ib	34	 100%

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Mol	Chain	Length	Quality of chain	
101	Ic	586	34%	66%
101	Id	586	34%	66%
101	Jq	586	34%	66%
101	Jr	586	34%	66%
102	Ie	230	93%	7%
102	Js	230	93%	7%
103	If	70	71%	29%
103	Ig	70	71%	29%
103	Jt	70	71%	29%
103	Jz	70	71%	29%
104	JA	256	72%	28%
104	Ka	256	80%	20%
105	JB	682	43%	57%
106	JE	253	80%	19%
106	JF	253	80%	20%
106	Kn	253	79%	20%
106	Ko	253	80%	20%
106	La	253	83%	16%
106	Lb	253	84%	16%
107	JG	4309	93%	7%
108	KC	72	100%	
109	KZ	331	99%	
110	Kb	378	81%	19%
111	Kg	4151	95%	5%
112	Kp	925	44%	56%




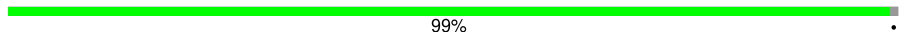
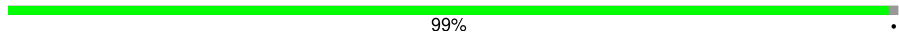
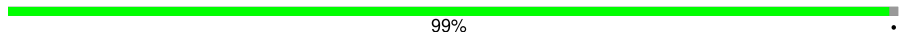
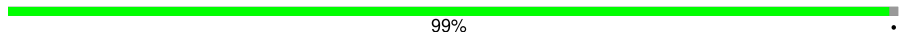
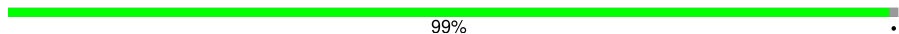
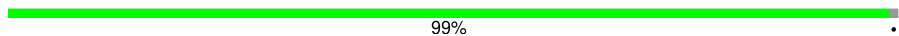
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Mol	Chain	Length	Quality of chain	
112	LR	925	45%	55%
113	Kq	904	47%	53%
113	LS	904	46%	54%
114	LO	2520	45%	55%
115	LP	868	62%	37%
115	LQ	868	62%	38%
116	LY	906	100%	
117	LZ	1147	96%	.
118	Lc	4165	97%	.
119	Le	380	100%	
120	Lf	423	94%	6%
121	Lg	1298	27%	73%
122	Me	4185	94%	6%
123	Mm	4209	94%	6%
124	za	270	39%	61%
124	zb	270	76%	24%
124	zc	270	76%	24%
124	zd	270	76%	24%
124	ze	270	76%	24%
124	zf	270	76%	24%
124	zg	270	76%	24%
124	zh	270	76%	24%
124	zi	270	7%	93%
125	zj	286	59%	41%
125	zk	286	19%	81%

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Mol	Chain	Length	Quality of chain
125	zl	286	 59% 41%
126	zr	144	 83% 17%
126	zs	144	 83% 17%
127	zt	196	 99% .
127	zu	196	 99% .
127	zv	196	 99% .
127	zw	196	 99% .
127	zx	196	 99% .
127	zy	196	 99% .
127	zz	196	 99% .

2 Entry composition [i](#)

There are 130 unique types of molecules in this entry. The entry contains 3968189 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, 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 Tubulin beta.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	0A	426	3346	2103	574	639	30	0	0
1	0C	426	3346	2103	574	639	30	0	0
1	0E	426	3346	2103	574	639	30	0	0
1	0G	426	3346	2103	574	639	30	0	0
1	0I	426	3346	2103	574	639	30	0	0
1	0K	426	3346	2103	574	639	30	0	0
1	0M	426	3346	2103	574	639	30	0	0
1	0O	426	3346	2103	574	639	30	0	0
1	0Q	426	3346	2103	574	639	30	0	0
1	0S	426	3346	2103	574	639	30	0	0
1	0U	426	3346	2103	574	639	30	0	0
1	0W	426	3346	2103	574	639	30	0	0
1	0Y	426	3346	2103	574	639	30	0	0
1	1A	426	3346	2103	574	639	30	0	0
1	1C	426	3346	2103	574	639	30	0	0
1	1E	426	3346	2103	574	639	30	0	0
1	1G	426	3346	2103	574	639	30	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	1K	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	1M	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	1O	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	1Q	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	1S	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	1U	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	1W	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	2A	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	2C	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	2E	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	2G	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	2I	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	2K	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	2M	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	2Q	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	2S	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	2U	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	2W	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	2Y	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	3A	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	3C	426	Total 3346	C 2103	N 574	O 639	S 30	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	3G	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	3I	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	3K	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	3M	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	3O	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	3Q	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	3S	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	8H	433	Total 3397	C 2131	N 581	O 655	S 30	0	0
1	8J	436	Total 3421	C 2147	N 584	O 660	S 30	0	0
1	8L	437	Total 3430	C 2152	N 585	O 663	S 30	0	0
1	8N	436	Total 3421	C 2147	N 584	O 660	S 30	0	0
1	A1	432	Total 3388	C 2126	N 580	O 652	S 30	0	0
1	A3	435	Total 3410	C 2138	N 583	O 659	S 30	0	0
1	A5	430	Total 3370	C 2116	N 578	O 646	S 30	0	0
1	A6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	A7	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	A9	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	AJ	436	Total 3421	C 2147	N 584	O 660	S 30	0	0
1	Ah	436	Total 3421	C 2147	N 584	O 660	S 30	0	0
1	Aj	437	Total 3430	C 2152	N 585	O 663	S 30	0	0
1	Al	436	Total 3421	C 2147	N 584	O 660	S 30	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	An	432	Total 3388	C 2126	N 580	O 652	S 30	0	0
1	Ap	435	Total 3410	C 2138	N 583	O 659	S 30	0	0
1	Au	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Aw	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Ay	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	B1	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	B3	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	B5	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	B6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	B8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	BB	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	BG	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	BI	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	BK	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	BM	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	BO	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	BS	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	BU	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	BW	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	BY	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Ba	426	Total 3346	C 2103	N 574	O 639	S 30	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Bf	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Bh	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Bj	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Bl	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Bn	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Bs	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Bu	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Bw	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	By	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	C0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	C2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	C4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	C6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	C8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	CE	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	CG	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	CI	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	CK	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	CM	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	CR	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	CT	426	Total 3346	C 2103	N 574	O 639	S 30	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	CV	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	CX	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	CZ	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Ce	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Cg	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Ci	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Ck	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Cm	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Cr	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Ct	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Cv	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Cx	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Cz	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	D0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	D2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	D4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	D6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	D8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	DE	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	DG	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	DI	426	Total 3346	C 2103	N 574	O 639	S 30	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	DK	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	DM	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	DR	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	DT	430	Total 3370	C 2116	N 578	O 646	S 30	0	0
1	DV	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	DX	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
1	DZ	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	De	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Dg	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Di	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Dk	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Dm	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Dr	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Dt	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Dv	430	Total 3370	C 2116	N 578	O 646	S 30	0	0
1	Dx	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Dz	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	E0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	E2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	E4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	E6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	E8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	ED	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	EF	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	EH	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	EJ	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	EL	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	EQ	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	ES	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	EU	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	EW	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	EY	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Ed	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Ef	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Eh	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Ej	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	El	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Eq	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Es	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Eu	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Ew	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	F0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	F2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	F6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	F8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	FC	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	FE	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	FG	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	FI	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	FK	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	FP	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	FR	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	FT	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	FV	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	FX	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Fc	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Fe	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Fg	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Fi	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Fk	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Fp	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Fr	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Ft	426	Total 3346	C 2103	N 574	O 639	S 30	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Fv	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Fx	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	G0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	G2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	G4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	G6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	G8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	GB	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	GD	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	GF	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	GH	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	GJ	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	H2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	H4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	H6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	H8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	I0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	I2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	I4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	I8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	IK	432	Total 3388	C 2126	N 580	O 652	S 30	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	IM	435	Total	C	N	O	S	0	0
			3410	2138	583	659	30		
1	IW	426	Total	C	N	O	S	0	0
			3346	2103	574	639	30		
1	IY	426	Total	C	N	O	S	0	0
			3346	2103	574	639	30		
1	Ij	426	Total	C	N	O	S	0	0
			3346	2103	574	639	30		
1	Il	426	Total	C	N	O	S	0	0
			3346	2103	574	639	30		
1	Iw	426	Total	C	N	O	S	0	0
			3346	2103	574	639	30		
1	Iy	426	Total	C	N	O	S	0	0
			3346	2103	574	639	30		
1	J0	426	Total	C	N	O	S	0	0
			3346	2103	574	639	30		
1	J2	426	Total	C	N	O	S	0	0
			3346	2103	574	639	30		
1	J4	426	Total	C	N	O	S	0	0
			3346	2103	574	639	30		
1	J6	426	Total	C	N	O	S	0	0
			3346	2103	574	639	30		
1	J8	426	Total	C	N	O	S	0	0
			3346	2103	574	639	30		
1	JJ	426	Total	C	N	O	S	0	0
			3346	2103	574	639	30		
1	JL	426	Total	C	N	O	S	0	0
			3346	2103	574	639	30		
1	JU	426	Total	C	N	O	S	0	0
			3346	2103	574	639	30		
1	JW	426	Total	C	N	O	S	0	0
			3346	2103	574	639	30		
1	JY	426	Total	C	N	O	S	0	0
			3346	2103	574	639	30		
1	Jh	426	Total	C	N	O	S	0	0
			3346	2103	574	639	30		
1	Jj	426	Total	C	N	O	S	0	0
			3346	2103	574	639	30		
1	Jl	426	Total	C	N	O	S	0	0
			3346	2103	574	639	30		
1	Ju	426	Total	C	N	O	S	0	0
			3346	2103	574	639	30		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Jw	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Jy	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	K0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	K4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	K6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	K8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	KH	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	KJ	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	KL	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	KU	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	KW	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	KY	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Kh	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Kj	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Kl	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Kv	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Kx	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
1	L0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	L2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	L4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	L6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	LH	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	LJ	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	LT	430	Total 3370	C 2116	N 578	O 646	S 30	0	0
1	LV	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	LX	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Lh	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Lj	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Lu	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Lw	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	M0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	M2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	M4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	M6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	M8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	MG	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	MI	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	MT	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	MV	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Mg	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Mi	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Mt	426	Total 3346	C 2103	N 574	O 639	S 30	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Mv	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	N0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	N2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	N6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	N8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	NF	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	NH	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	NJ	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	NS	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	NU	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	NW	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Nf	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Nh	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Nj	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	O0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	O2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	O4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	O6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	O8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	P4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	P6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	P8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Q0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Q2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Q4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Q6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Q8	420	Total 3293	C 2070	N 563	O 631	S 29	0	0
1	R0	434	Total 3401	C 2133	N 582	O 656	S 30	0	0
1	R2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	R4	430	Total 3370	C 2116	N 578	O 646	S 30	0	0
1	R6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	R8	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
1	S0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	S2	431	Total 3379	C 2121	N 579	O 649	S 30	0	0
1	S4	427	Total 3354	C 2107	N 575	O 642	S 30	0	0
1	S6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	S8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	T0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	T2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	T4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	T6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	T8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	U2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	U4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	U6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	U8	430	Total 3370	C 2116	N 578	O 646	S 30	0	0
1	V0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	V2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	V4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	V6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	V8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	W0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	W2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	W4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	W6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	W8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	X0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	X2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	X4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	X6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	X8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Y0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Y2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Y4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Y6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Y8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Z0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Z2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Z4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Z6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Z8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0

- Molecule 2 is a protein called Tubulin alpha.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	0B	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	0F	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	0H	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	0J	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	0L	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	0N	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	0P	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	0R	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	0V	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	0X	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	0Z	427	Total 3318	C 2103	N 565	O 629	S 21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	1B	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	1D	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	1F	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	1H	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	1L	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	1N	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	1P	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	1R	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	1T	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	1V	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	1X	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	1Z	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	2B	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	2D	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	2F	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	2H	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	2J	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	2L	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	2N	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	2P	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	2R	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	2T	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	2V	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	2X	437	Total	C	N	O	S	0	0
			3385	2141	576	647	21		
2	2Z	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	3B	437	Total	C	N	O	S	0	0
			3383	2140	576	646	21		
2	3D	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	3F	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	3H	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	3J	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	3L	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	3N	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	3P	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	3R	437	Total	C	N	O	S	0	0
			3385	2141	576	647	21		
2	3T	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	8F	436	Total	C	N	O	S	0	0
			3376	2136	575	644	21		
2	8I	436	Total	C	N	O	S	0	0
			3376	2136	575	644	21		
2	8K	436	Total	C	N	O	S	0	0
			3376	2136	575	644	21		
2	8M	436	Total	C	N	O	S	0	0
			3376	2136	575	644	21		
2	A0	436	Total	C	N	O	S	0	0
			3376	2136	575	644	21		
2	A2	436	Total	C	N	O	S	0	0
			3376	2136	575	644	21		
2	A4	436	Total	C	N	O	S	0	0
			3376	2136	575	644	21		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	A8	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	AT	436	Total	C	N	O	S	0	0
			3376	2136	575	644	21		
2	Ag	436	Total	C	N	O	S	0	0
			3376	2136	575	644	21		
2	Ai	436	Total	C	N	O	S	0	0
			3376	2136	575	644	21		
2	Ak	436	Total	C	N	O	S	0	0
			3376	2136	575	644	21		
2	Am	436	Total	C	N	O	S	0	0
			3376	2136	575	644	21		
2	Ao	436	Total	C	N	O	S	0	0
			3376	2136	575	644	21		
2	At	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	Av	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	Ax	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	Az	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	B0	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	B2	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	B4	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	B7	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	B9	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	BA	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	BF	436	Total	C	N	O	S	0	0
			3376	2136	575	644	21		
2	BH	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	BJ	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	BL	428	Total	C	N	O	S	0	0
			3324	2106	566	631	21		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	BN	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	BT	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	BV	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	BX	428	Total 3324	C 2106	N 566	O 631	S 21	0	0
2	BZ	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Bb	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Bg	436	Total 3376	C 2136	N 575	O 644	S 21	0	0
2	Bi	436	Total 3376	C 2136	N 575	O 644	S 21	0	0
2	Bk	443	Total 3418	C 2159	N 582	O 656	S 21	0	0
2	Bm	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Bo	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Bt	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Bv	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Bx	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Bz	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	C1	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	C3	431	Total 3340	C 2114	N 569	O 636	S 21	0	0
2	C5	436	Total 3376	C 2136	N 575	O 644	S 21	0	0
2	C7	436	Total 3376	C 2136	N 575	O 644	S 21	0	0
2	C9	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	CA	427	Total 3318	C 2103	N 565	O 629	S 21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	CF	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	CH	428	Total	C	N	O	S	0	0
			3326	2107	566	632	21		
2	CJ	437	Total	C	N	O	S	0	0
			3385	2141	576	647	21		
2	CL	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	CN	437	Total	C	N	O	S	0	0
			3385	2141	576	647	21		
2	CS	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	CU	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	CW	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	CY	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	Cf	436	Total	C	N	O	S	0	0
			3376	2136	575	644	21		
2	Ch	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	Cj	436	Total	C	N	O	S	0	0
			3376	2136	575	644	21		
2	Cl	437	Total	C	N	O	S	0	0
			3385	2141	576	647	21		
2	Cs	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	Cu	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	Cw	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	Cy	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	D1	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	D3	428	Total	C	N	O	S	0	0
			3324	2106	566	631	21		
2	D5	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	D7	428	Total	C	N	O	S	0	0
			3324	2106	566	631	21		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	DD	436	3376	2136	575	644	21	0	0
2	DF	427	3318	2103	565	629	21	0	0
2	DH	436	3376	2136	575	644	21	0	0
2	DJ	427	3318	2103	565	629	21	0	0
2	DL	427	3318	2103	565	629	21	0	0
2	DN	427	3318	2103	565	629	21	0	0
2	DQ	427	3318	2103	565	629	21	0	0
2	DS	428	3327	2108	566	632	21	0	0
2	DU	436	3376	2136	575	644	21	0	0
2	DW	427	3318	2103	565	629	21	0	0
2	DY	436	3376	2136	575	644	21	0	0
2	Da	429	3333	2111	567	634	21	0	0
2	Dd	436	3376	2136	575	644	21	0	0
2	Df	427	3318	2103	565	629	21	0	0
2	Dh	427	3318	2103	565	629	21	0	0
2	Dj	427	3318	2103	565	629	21	0	0
2	Di	427	3318	2103	565	629	21	0	0
2	Dq	427	3318	2103	565	629	21	0	0
2	Ds	427	3318	2103	565	629	21	0	0
2	Du	427	3318	2103	565	629	21	0	0
2	Dw	427	3318	2103	565	629	21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	Dy	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	E1	428	Total 3324	C 2106	N 566	O 631	S 21	0	0
2	E3	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	E5	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	E7	428	Total 3324	C 2106	N 566	O 631	S 21	0	0
2	E9	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	EC	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	EE	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	EG	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	EI	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	EK	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	EP	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	ER	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	ET	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	EV	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	EX	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Ec	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Ee	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Eg	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Ei	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Ek	427	Total 3318	C 2103	N 565	O 629	S 21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	Ep	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Er	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Et	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Ev	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Ex	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	F1	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	F3	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	F5	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	F7	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	F9	436	Total 3376	C 2136	N 575	O 644	S 21	0	0
2	FD	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	FF	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	FH	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	FJ	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	FL	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	FQ	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	FS	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	FU	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	FW	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	FY	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Fd	427	Total 3318	C 2103	N 565	O 629	S 21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	Ff	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Fh	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Fj	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Fl	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Fq	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Fs	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Fu	437	Total 3385	C 2141	N 576	O 647	S 21	0	0
2	Fw	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	G1	436	Total 3376	C 2136	N 575	O 644	S 21	0	0
2	G3	436	Total 3376	C 2136	N 575	O 644	S 21	0	0
2	G5	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	G7	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	G9	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	GC	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	GE	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	GG	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	GI	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	H1	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	H3	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	H5	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	H7	427	Total 3318	C 2103	N 565	O 629	S 21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	H9	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	Hu	436	Total	C	N	O	S	0	0
			3376	2136	575	644	21		
2	I1	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	I3	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	I5	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	I7	429	Total	C	N	O	S	0	0
			3332	2110	567	634	21		
2	I9	428	Total	C	N	O	S	0	0
			3324	2106	566	631	21		
2	IL	436	Total	C	N	O	S	0	0
			3376	2136	575	644	21		
2	IV	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	IX	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	IZ	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	Ii	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	Ik	428	Total	C	N	O	S	0	0
			3324	2106	566	631	21		
2	Im	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	Iv	428	Total	C	N	O	S	0	0
			3324	2106	566	631	21		
2	Ix	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	Iz	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	J1	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	J3	428	Total	C	N	O	S	0	0
			3326	2107	566	632	21		
2	J5	437	Total	C	N	O	S	0	0
			3385	2141	576	647	21		
2	J7	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	J9	437	Total	C	N	O	S	0	0
			3385	2141	576	647	21		
2	JI	436	Total	C	N	O	S	0	0
			3376	2136	575	644	21		
2	JK	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	JV	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	JX	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	Ji	437	Total	C	N	O	S	0	0
			3385	2141	576	647	21		
2	Jk	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	Jv	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	Jx	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	K1	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	K3	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	K5	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	K7	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	K9	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	KI	436	Total	C	N	O	S	0	0
			3376	2136	575	644	21		
2	KK	437	Total	C	N	O	S	0	0
			3385	2141	576	647	21		
2	KV	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	KX	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	Ki	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	Kk	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	Kw	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	Ky	436	3376	2136	575	644	21	0	0
2	L1	427	3318	2103	565	629	21	0	0
2	L3	427	3318	2103	565	629	21	0	0
2	L5	427	3318	2103	565	629	21	0	0
2	L7	427	3318	2103	565	629	21	0	0
2	L9	427	3318	2103	565	629	21	0	0
2	LI	427	3318	2103	565	629	21	0	0
2	LK	427	3318	2103	565	629	21	0	0
2	LU	427	3318	2103	565	629	21	0	0
2	LW	427	3318	2103	565	629	21	0	0
2	Li	427	3318	2103	565	629	21	0	0
2	Lk	427	3318	2103	565	629	21	0	0
2	Lv	427	3318	2103	565	629	21	0	0
2	Lx	427	3318	2103	565	629	21	0	0
2	M1	427	3318	2103	565	629	21	0	0
2	M3	436	3376	2136	575	644	21	0	0
2	M5	427	3318	2103	565	629	21	0	0
2	M7	436	3376	2136	575	644	21	0	0
2	M9	437	3385	2141	576	647	21	0	0
2	MF	427	3318	2103	565	629	21	0	0
2	MH	427	3318	2103	565	629	21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	MJ	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	MS	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	MU	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	MW	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Mf	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Mh	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Mj	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Ms	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Mu	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Mw	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	N1	428	Total 3324	C 2106	N 566	O 631	S 21	0	0
2	N3	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	N5	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	N7	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	N9	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	NG	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	NI	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	NT	437	Total 3385	C 2141	N 576	O 647	S 21	0	0
2	NV	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Ng	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Ni	427	Total 3318	C 2103	N 565	O 629	S 21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	O1	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	O3	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	O5	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	O7	431	Total 3340	C 2114	N 569	O 636	S 21	0	0
2	O9	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	P3	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	P5	436	Total 3376	C 2136	N 575	O 644	S 21	0	0
2	P7	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	P9	436	Total 3376	C 2136	N 575	O 644	S 21	0	0
2	Q1	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Q3	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Q5	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Q9	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	R1	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	R3	428	Total 3327	C 2108	N 566	O 632	S 21	0	0
2	R5	436	Total 3376	C 2136	N 575	O 644	S 21	0	0
2	R7	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	R9	436	Total 3376	C 2136	N 575	O 644	S 21	0	0
2	S1	429	Total 3333	C 2111	N 567	O 634	S 21	0	0
2	S5	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	S7	436	Total 3376	C 2136	N 575	O 644	S 21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	S9	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	T1	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	T3	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	T5	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	T7	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	U1	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	U3	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	U5	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	U7	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	U9	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	V1	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	V3	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	V7	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	V9	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	W1	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	W3	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	W5	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	W7	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	W9	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	X3	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	X5	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	X7	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	X9	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	Y1	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	Y3	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	Y5	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	Y9	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	Z1	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	Z3	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	Z5	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	Z7	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	Z9	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		

- Molecule 3 is a protein called PACRG.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	3V	297	Total	C	N	O	S	0	0
			2329	1491	401	428	9		
3	3X	297	Total	C	N	O	S	0	0
			2329	1491	401	428	9		
3	3Z	297	Total	C	N	O	S	0	0
			2329	1491	401	428	9		
3	4B	297	Total	C	N	O	S	0	0
			2329	1491	401	428	9		
3	4D	297	Total	C	N	O	S	0	0
			2329	1491	401	428	9		
3	4F	297	Total	C	N	O	S	0	0
			2329	1491	401	428	9		
3	4H	297	Total	C	N	O	S	0	0
			2329	1491	401	428	9		
3	4J	297	Total	C	N	O	S	0	0
			2329	1491	401	428	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	GP	297	Total	C	N	O	S	0	0
			2329	1491	401	428	9		
3	GR	297	Total	C	N	O	S	0	0
			2329	1491	401	428	9		
3	GT	297	Total	C	N	O	S	0	0
			2329	1491	401	428	9		
3	GV	297	Total	C	N	O	S	0	0
			2329	1491	401	428	9		
3	GX	297	Total	C	N	O	S	0	0
			2329	1491	401	428	9		
3	Nt	297	Total	C	N	O	S	0	0
			2329	1491	401	428	9		
3	Nv	297	Total	C	N	O	S	0	0
			2329	1491	401	428	9		

- Molecule 4 is a protein called Cilia- and flagella-associated protein 20.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	3W	184	Total	C	N	O	S	0	0
			1515	971	264	273	7		
4	3Y	184	Total	C	N	O	S	0	0
			1515	971	264	273	7		
4	4A	184	Total	C	N	O	S	0	0
			1515	971	264	273	7		
4	4C	184	Total	C	N	O	S	0	0
			1515	971	264	273	7		
4	4E	184	Total	C	N	O	S	0	0
			1515	971	264	273	7		
4	4G	184	Total	C	N	O	S	0	0
			1515	971	264	273	7		
4	4I	184	Total	C	N	O	S	0	0
			1515	971	264	273	7		
4	GO	184	Total	C	N	O	S	0	0
			1515	971	264	273	7		
4	GQ	184	Total	C	N	O	S	0	0
			1515	971	264	273	7		
4	GS	184	Total	C	N	O	S	0	0
			1515	971	264	273	7		
4	GU	184	Total	C	N	O	S	0	0
			1515	971	264	273	7		
4	GW	184	Total	C	N	O	S	0	0
			1515	971	264	273	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	Ns	184	Total	C	N	O	S	0	0
			1515	971	264	273	7		
4	Nu	184	Total	C	N	O	S	0	0
			1515	971	264	273	7		
4	Nw	184	Total	C	N	O	S	0	0
			1515	971	264	273	7		

- Molecule 5 is a protein called Meiosis-specific nuclear structural protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	4O	478	Total	C	N	O	S	0	0
			3995	2407	778	791	19		
5	5D	478	Total	C	N	O	S	0	0
			3995	2407	778	791	19		
5	Gd	120	Total	C	N	O	S	0	0
			992	599	196	195	2		
5	OA	167	Total	C	N	O	S	0	0
			1403	847	273	275	8		

- Molecule 6 is a protein called Flagellar associated protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	4Q	171	Total	C	N	O	S	0	0
			1349	806	273	264	6		
6	4W	385	Total	C	N	O	S	0	0
			2989	1794	600	581	14		
6	Nz	324	Total	C	N	O	S	0	0
			2511	1500	508	493	10		

- Molecule 7 is a protein called Coiled-coil protein associated with protofilament ribbons.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	4R	366	Total	C	N	O	S	0	0
			2982	1819	561	589	13		
7	Ga	366	Total	C	N	O	S	0	0
			2982	1819	561	589	13		
7	Gf	349	Total	C	N	O	S	0	0
			2838	1728	533	565	12		
7	Gi	205	Total	C	N	O	S	0	0
			1672	1020	315	335	2		
7	Gj	337	Total	C	N	O	S	0	0
			2748	1673	515	547	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	OG	199	Total	C	N	O	S	0	0
			1609	981	300	317	11		

- Molecule 8 is a protein called Cilia- and flagella-associated protein 45.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	4X	376	Total	C	N	O	S	0	0
			3157	1918	605	614	20		
8	5C	370	Total	C	N	O	S	0	0
			3103	1881	597	604	21		
8	Go	210	Total	C	N	O	S	0	0
			1743	1054	332	343	14		
8	Gp	376	Total	C	N	O	S	0	0
			3157	1918	605	614	20		
8	Gq	29	Total	C	N	O	S	0	0
			238	145	45	43	5		
8	OD	370	Total	C	N	O	S	0	0
			3103	1881	597	604	21		
8	OO	161	Total	C	N	O	S	0	0
			1346	820	261	260	5		

- Molecule 9 is a protein called FAP34.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	5E	258	Total	C	N	O	S	0	0
			1981	1245	352	380	4		
9	Gr	258	Total	C	N	O	S	0	0
			1981	1245	352	380	4		
9	OQ	103	Total	C	N	O	S	0	0
			783	493	143	146	1		

- Molecule 10 is a protein called Flagellar associated protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	5F	381	Total	C	N	O	S	0	0
			3020	1921	520	569	10		
10	7B	174	Total	C	N	O	S	0	0
			1382	875	235	265	7		
10	Gs	311	Total	C	N	O	S	0	0
			2466	1576	425	459	6		

- Molecule 11 is a protein called Protein Flattop homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	5H	135	Total	C	N	O	S	0	0
			1069	674	190	202	3		
11	5I	135	Total	C	N	O	S	0	0
			1069	674	190	202	3		
11	5J	135	Total	C	N	O	S	0	0
			1069	674	190	202	3		
11	5K	135	Total	C	N	O	S	0	0
			1069	674	190	202	3		
11	Gv	135	Total	C	N	O	S	0	0
			1069	674	190	202	3		
11	Gw	135	Total	C	N	O	S	0	0
			1069	674	190	202	3		
11	Gx	96	Total	C	N	O	S	0	0
			764	481	138	144	1		
11	OV	135	Total	C	N	O	S	0	0
			1069	674	190	202	3		

- Molecule 12 is a protein called FAP52.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	5L	626	Total	C	N	O	S	0	0
			4757	2992	827	912	26		
12	5M	626	Total	C	N	O	S	0	0
			4757	2992	827	912	26		
12	5N	626	Total	C	N	O	S	0	0
			4757	2992	827	912	26		
12	Ad	626	Total	C	N	O	S	0	0
			4757	2992	827	912	26		
12	Ae	626	Total	C	N	O	S	0	0
			4757	2992	827	912	26		
12	Af	626	Total	C	N	O	S	0	0
			4757	2992	827	912	26		
12	Eo	626	Total	C	N	O	S	0	0
			4757	2992	827	912	26		
12	HG	626	Total	C	N	O	S	0	0
			4757	2992	827	912	26		

- Molecule 13 is a protein called Nucleoside diphosphate kinase.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	5O	376	Total	C	N	O	S	0	0
			2927	1862	503	547	15		
13	5P	376	Total	C	N	O	S	0	0
			2927	1862	503	547	15		

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Mol	Chain	Residues	Atoms					AltConf	Trace
13	Gy	376	Total	C	N	O	S	0	0
			2927	1862	503	547	15		
13	Gz	376	Total	C	N	O	S	0	0
			2927	1862	503	547	15		
13	OY	376	Total	C	N	O	S	0	0
			2927	1862	503	547	15		

- Molecule 14 is a protein called Flagellar associated protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	5Q	191	Total	C	N	O	S	0	0
			1523	961	267	293	2		
14	HA	191	Total	C	N	O	S	0	0
			1523	961	267	293	2		
14	OZ	17	Total	C	N	O		0	0
			135	89	22	24			

- Molecule 15 is a protein called Flagellar associated protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	5S	199	Total	C	N	O	S	0	0
			1572	989	291	288	4		
15	5T	198	Total	C	N	O	S	0	0
			1563	984	290	285	4		
15	5U	199	Total	C	N	O	S	0	0
			1572	989	291	288	4		
15	5V	198	Total	C	N	O	S	0	0
			1563	984	290	285	4		
15	HD	198	Total	C	N	O	S	0	0
			1563	984	290	285	4		
15	HE	199	Total	C	N	O	S	0	0
			1572	989	291	288	4		
15	Oc	65	Total	C	N	O	S	0	0
			504	316	93	93	2		
15	Od	199	Total	C	N	O	S	0	0
			1572	989	291	288	4		

- Molecule 16 is a protein called Flagellar associated protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	5X	221	Total	C	N	O	S	0	0
			1793	1153	302	330	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
16	5Y	221	Total	C	N	O	S	0	0
			1793	1153	302	330	8		
16	5Z	221	Total	C	N	O	S	0	0
			1793	1153	302	330	8		
16	6A	221	Total	C	N	O	S	0	0
			1793	1153	302	330	8		
16	6B	221	Total	C	N	O	S	0	0
			1793	1153	302	330	8		
16	6C	221	Total	C	N	O	S	0	0
			1793	1153	302	330	8		
16	6D	221	Total	C	N	O	S	0	0
			1793	1153	302	330	8		
16	HH	221	Total	C	N	O	S	0	0
			1793	1153	302	330	8		
16	HI	221	Total	C	N	O	S	0	0
			1793	1153	302	330	8		
16	HJ	221	Total	C	N	O	S	0	0
			1793	1153	302	330	8		
16	HK	221	Total	C	N	O	S	0	0
			1793	1153	302	330	8		
16	HL	221	Total	C	N	O	S	0	0
			1793	1153	302	330	8		
16	Oi	221	Total	C	N	O	S	0	0
			1793	1153	302	330	8		
16	Oj	221	Total	C	N	O	S	0	0
			1793	1153	302	330	8		
16	Ok	221	Total	C	N	O	S	0	0
			1793	1153	302	330	8		

- Molecule 17 is a protein called FAP143.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	6E	255	Total	C	N	O	S	0	0
			1952	1208	345	390	9		
17	HN	255	Total	C	N	O	S	0	0
			1952	1208	345	390	9		
17	Om	134	Total	C	N	O	S	0	0
			1036	638	187	208	3		

- Molecule 18 is a protein called Flagellar associated protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	6F	394	Total	C	N	O	S	0	0
			2950	1852	518	566	14		
18	HO	394	Total	C	N	O	S	0	0
			2950	1852	518	566	14		
18	On	394	Total	C	N	O	S	0	0
			2950	1852	518	566	14		
18	zp	394	Total	C	N	O	S	0	0
			2950	1852	518	566	14		
18	zq	394	Total	C	N	O	S	0	0
			2950	1852	518	566	14		

- Molecule 19 is a protein called FAP166.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	6G	183	Total	C	N	O	S	0	0
			1420	891	251	269	9		
19	6H	193	Total	C	N	O	S	0	0
			1493	937	265	282	9		
19	HP	183	Total	C	N	O	S	0	0
			1420	891	251	269	9		
19	HQ	193	Total	C	N	O	S	0	0
			1493	937	265	282	9		
19	Op	193	Total	C	N	O	S	0	0
			1493	937	265	282	9		

- Molecule 20 is a protein called Flagellar associated protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	6I	329	Total	C	N	O	S	0	0
			2617	1660	442	501	14		
20	6J	329	Total	C	N	O	S	0	0
			2617	1660	442	501	14		
20	6K	329	Total	C	N	O	S	0	0
			2617	1660	442	501	14		
20	6L	329	Total	C	N	O	S	0	0
			2617	1660	442	501	14		
20	6M	329	Total	C	N	O	S	0	0
			2617	1660	442	501	14		
20	6N	329	Total	C	N	O	S	0	0
			2617	1660	442	501	14		
20	6O	329	Total	C	N	O	S	0	0
			2617	1660	442	501	14		
20	6P	329	Total	C	N	O	S	0	0
			2617	1660	442	501	14		

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Mol	Chain	Residues	Atoms					AltConf	Trace
20	HS	329	Total	C	N	O	S	0	0
			2617	1660	442	501	14		
20	HT	329	Total	C	N	O	S	0	0
			2617	1660	442	501	14		
20	HU	329	Total	C	N	O	S	0	0
			2617	1660	442	501	14		
20	HV	329	Total	C	N	O	S	0	0
			2617	1660	442	501	14		
20	HW	222	Total	C	N	O	S	0	0
			1800	1138	304	347	11		
20	Ot	99	Total	C	N	O	S	0	0
			754	482	130	139	3		
20	Ou	329	Total	C	N	O	S	0	0
			2617	1660	442	501	14		
20	Ov	329	Total	C	N	O	S	0	0
			2617	1660	442	501	14		

- Molecule 21 is a protein called FAP339.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	6Q	85	Total	C	N	O	S	0	0
			694	434	130	127	3		
21	6R	85	Total	C	N	O	S	0	0
			694	434	130	127	3		
21	6S	85	Total	C	N	O	S	0	0
			694	434	130	127	3		
21	HY	85	Total	C	N	O	S	0	0
			694	434	130	127	3		
21	HZ	85	Total	C	N	O	S	0	0
			694	434	130	127	3		
21	Ha	85	Total	C	N	O	S	0	0
			694	434	130	127	3		
21	Oy	85	Total	C	N	O	S	0	0
			694	434	130	127	3		
21	Oz	85	Total	C	N	O	S	0	0
			694	434	130	127	3		

- Molecule 22 is a protein called Protofilament ribbon protein of flagellar microtubules.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	6T	583	Total	C	N	O	S	0	0
			4708	2999	813	880	16		

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Mol	Chain	Residues	Atoms					AltConf	Trace
22	6U	581	Total	C	N	O	S	0	0
			4710	3004	812	876	18		
22	6V	565	Total	C	N	O	S	0	0
			4598	2934	794	854	16		
22	6W	575	Total	C	N	O	S	0	0
			4673	2979	806	870	18		
22	6X	565	Total	C	N	O	S	0	0
			4598	2934	794	854	16		
22	6Y	560	Total	C	N	O	S	0	0
			4563	2913	788	846	16		
22	6Z	583	Total	C	N	O	S	0	0
			4708	2999	813	880	16		
22	Hb	581	Total	C	N	O	S	0	0
			4710	3004	812	876	18		
22	Hc	565	Total	C	N	O	S	0	0
			4598	2934	794	854	16		
22	Hd	575	Total	C	N	O	S	0	0
			4673	2979	806	870	18		
22	He	565	Total	C	N	O	S	0	0
			4598	2934	794	854	16		
22	Hf	560	Total	C	N	O	S	0	0
			4563	2913	788	846	16		
22	Hg	45	Total	C	N	O	S	0	0
			341	219	57	64	1		
22	PD	425	Total	C	N	O	S	0	0
			3453	2210	589	642	12		
22	PE	565	Total	C	N	O	S	0	0
			4598	2934	794	854	16		
22	PF	560	Total	C	N	O	S	0	0
			4563	2913	788	846	16		

- Molecule 23 is a protein called Flagellar associated protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	7C	83	Total	C	N	O	S	0	0
			692	427	138	125	2		
23	Hj	83	Total	C	N	O	S	0	0
			692	427	138	125	2		

There are 18 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
7C	17	MET	LEU	conflict	UNP A0A835TDA6

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Chain	Residue	Modelled	Actual	Comment	Reference
7C	22	GLN	GLU	conflict	UNP A0A835TDA6
7C	36	GLN	LYS	conflict	UNP A0A835TDA6
7C	38	THR	SER	conflict	UNP A0A835TDA6
7C	39	GLU	ASP	conflict	UNP A0A835TDA6
7C	40	ARG	LYS	conflict	UNP A0A835TDA6
7C	46	PRO	GLN	conflict	UNP A0A835TDA6
7C	74	GLN	GLU	conflict	UNP A0A835TDA6
7C	94	MET	ALA	conflict	UNP A0A835TDA6
Hj	17	MET	LEU	conflict	UNP A0A835TDA6
Hj	22	GLN	GLU	conflict	UNP A0A835TDA6
Hj	36	GLN	LYS	conflict	UNP A0A835TDA6
Hj	38	THR	SER	conflict	UNP A0A835TDA6
Hj	39	GLU	ASP	conflict	UNP A0A835TDA6
Hj	40	ARG	LYS	conflict	UNP A0A835TDA6
Hj	46	PRO	GLN	conflict	UNP A0A835TDA6
Hj	74	GLN	GLU	conflict	UNP A0A835TDA6
Hj	94	MET	ALA	conflict	UNP A0A835TDA6

- Molecule 24 is a protein called Flagellar associated protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	7D	132	Total	C	N	O	S	0	0
			1016	637	183	189	7		
24	7E	132	Total	C	N	O	S	0	0
			1016	637	183	189	7		
24	Hk	132	Total	C	N	O	S	0	0
			1016	637	183	189	7		
24	Hl	132	Total	C	N	O	S	0	0
			1016	637	183	189	7		
24	PK	132	Total	C	N	O	S	0	0
			1016	637	183	189	7		

- Molecule 25 is a protein called Flagellar associated protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	7G	224	Total	C	N	O	S	0	0
			1728	1083	305	336	4		
25	Hn	224	Total	C	N	O	S	0	0
			1728	1083	305	336	4		

- Molecule 26 is a protein called Flagellar associated protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
26	7H	438	3224	2026	570	614	14	0	0
26	7X	438	3224	2026	570	614	14	0	0

- Molecule 27 is a protein called FAP129.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
27	7I	440	3329	2062	610	646	11	0	0
27	7J	362	2741	1691	505	535	10	0	0
27	Hp	231	1760	1088	327	337	8	0	0

- Molecule 28 is a protein called FAP21.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
28	7K	423	3276	2026	620	625	5	0	0
28	Hq	423	3276	2026	620	625	5	0	0
28	Hr	106	807	499	152	154	2	0	0
28	PQ	110	873	544	157	171	1	0	0

There are 64 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
7K	1	MET	-	initiating methionine	UNP A0A2K3CNK8
7K	2	SER	-	expression tag	UNP A0A2K3CNK8
7K	3	LEU	-	expression tag	UNP A0A2K3CNK8
7K	4	THR	-	expression tag	UNP A0A2K3CNK8
7K	5	THR	-	expression tag	UNP A0A2K3CNK8
7K	6	GLN	-	expression tag	UNP A0A2K3CNK8
7K	7	SER	-	expression tag	UNP A0A2K3CNK8
7K	8	LEU	-	expression tag	UNP A0A2K3CNK8
7K	9	ARG	-	expression tag	UNP A0A2K3CNK8
7K	10	ARG	-	expression tag	UNP A0A2K3CNK8
7K	11	THR	-	expression tag	UNP A0A2K3CNK8
7K	12	ASN	-	expression tag	UNP A0A2K3CNK8
7K	13	TYR	-	expression tag	UNP A0A2K3CNK8

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Chain	Residue	Modelled	Actual	Comment	Reference
7K	14	GLU	-	expression tag	UNP A0A2K3CNK8
7K	15	ALA	-	expression tag	UNP A0A2K3CNK8
7K	16	GLU	-	expression tag	UNP A0A2K3CNK8
Hq	1	MET	-	initiating methionine	UNP A0A2K3CNK8
Hq	2	SER	-	expression tag	UNP A0A2K3CNK8
Hq	3	LEU	-	expression tag	UNP A0A2K3CNK8
Hq	4	THR	-	expression tag	UNP A0A2K3CNK8
Hq	5	THR	-	expression tag	UNP A0A2K3CNK8
Hq	6	GLN	-	expression tag	UNP A0A2K3CNK8
Hq	7	SER	-	expression tag	UNP A0A2K3CNK8
Hq	8	LEU	-	expression tag	UNP A0A2K3CNK8
Hq	9	ARG	-	expression tag	UNP A0A2K3CNK8
Hq	10	ARG	-	expression tag	UNP A0A2K3CNK8
Hq	11	THR	-	expression tag	UNP A0A2K3CNK8
Hq	12	ASN	-	expression tag	UNP A0A2K3CNK8
Hq	13	TYR	-	expression tag	UNP A0A2K3CNK8
Hq	14	GLU	-	expression tag	UNP A0A2K3CNK8
Hq	15	ALA	-	expression tag	UNP A0A2K3CNK8
Hq	16	GLU	-	expression tag	UNP A0A2K3CNK8
Hr	1	MET	-	initiating methionine	UNP A0A2K3CNK8
Hr	2	SER	-	expression tag	UNP A0A2K3CNK8
Hr	3	LEU	-	expression tag	UNP A0A2K3CNK8
Hr	4	THR	-	expression tag	UNP A0A2K3CNK8
Hr	5	THR	-	expression tag	UNP A0A2K3CNK8
Hr	6	GLN	-	expression tag	UNP A0A2K3CNK8
Hr	7	SER	-	expression tag	UNP A0A2K3CNK8
Hr	8	LEU	-	expression tag	UNP A0A2K3CNK8
Hr	9	ARG	-	expression tag	UNP A0A2K3CNK8
Hr	10	ARG	-	expression tag	UNP A0A2K3CNK8
Hr	11	THR	-	expression tag	UNP A0A2K3CNK8
Hr	12	ASN	-	expression tag	UNP A0A2K3CNK8
Hr	13	TYR	-	expression tag	UNP A0A2K3CNK8
Hr	14	GLU	-	expression tag	UNP A0A2K3CNK8
Hr	15	ALA	-	expression tag	UNP A0A2K3CNK8
Hr	16	GLU	-	expression tag	UNP A0A2K3CNK8
PQ	1	MET	-	initiating methionine	UNP A0A2K3CNK8
PQ	2	SER	-	expression tag	UNP A0A2K3CNK8
PQ	3	LEU	-	expression tag	UNP A0A2K3CNK8
PQ	4	THR	-	expression tag	UNP A0A2K3CNK8
PQ	5	THR	-	expression tag	UNP A0A2K3CNK8
PQ	6	GLN	-	expression tag	UNP A0A2K3CNK8
PQ	7	SER	-	expression tag	UNP A0A2K3CNK8

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Chain	Residue	Modelled	Actual	Comment	Reference
PQ	8	LEU	-	expression tag	UNP A0A2K3CNK8
PQ	9	ARG	-	expression tag	UNP A0A2K3CNK8
PQ	10	ARG	-	expression tag	UNP A0A2K3CNK8
PQ	11	THR	-	expression tag	UNP A0A2K3CNK8
PQ	12	ASN	-	expression tag	UNP A0A2K3CNK8
PQ	13	TYR	-	expression tag	UNP A0A2K3CNK8
PQ	14	GLU	-	expression tag	UNP A0A2K3CNK8
PQ	15	ALA	-	expression tag	UNP A0A2K3CNK8
PQ	16	GLU	-	expression tag	UNP A0A2K3CNK8

- Molecule 29 is a protein called Flagellar associated protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
29	7M	126	Total 977	C 607	N 179	O 186	S 5	0	0
29	7N	126	Total 977	C 607	N 179	O 186	S 5	0	0
29	Ht	76	Total 583	C 360	N 111	O 109	S 3	0	0

- Molecule 30 is a protein called Flagellar associated protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
30	7P	197	Total 1520	C 939	N 283	O 295	S 3	0	0
30	Hv	172	Total 1336	C 825	N 249	O 259	S 3	0	0
30	PV	197	Total 1520	C 939	N 283	O 295	S 3	0	0

- Molecule 31 is a protein called FAP306.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
31	7Q	71	Total 567	C 352	N 98	O 117	0	0
31	Hw	71	Total 567	C 352	N 98	O 117	0	0
31	PW	71	Total 567	C 352	N 98	O 117	0	0
31	zn	42	Total 341	C 217	N 53	O 71	0	0

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Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
31	zo	42	341	217	53	71	0	0

- Molecule 32 is a protein called Flagellar associated protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
32	7Y	247	1971	1221	372	370	8	0	0
32	ID	247	1971	1221	372	370	8	0	0
32	Pe	208	1663	1029	312	315	7	0	0

- Molecule 33 is a protein called Flagellar associated protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
33	8B	213	1728	1078	311	332	7	0	0
33	8C	213	1728	1078	311	332	7	0	0
33	IG	213	1728	1078	311	332	7	0	0
33	IH	213	1728	1078	311	332	7	0	0
33	Pi	213	1728	1078	311	332	7	0	0

- Molecule 34 is a protein called Dynein axonemal light chain 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
34	AA	195	1554	981	264	302	7	4	0
34	Cb	195	1554	981	264	302	7	4	0
34	Gg	195	1554	981	264	302	7	4	0
34	Ll	195	1554	981	264	302	7	4	0

- Molecule 35 is a protein called Outer dynein arm-docking complex subunit 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
35	AB	404	Total	C	N	O	S	0	0
			3309	2024	618	652	15		
35	AY	404	Total	C	N	O	S	0	0
			3309	2024	618	652	15		
35	Fb	332	Total	C	N	O	S	0	0
			2724	1663	507	539	15		
35	MM	158	Total	C	N	O	S	0	0
			1239	764	218	251	6		
35	MR	404	Total	C	N	O	S	0	0
			3309	2024	618	652	15		
35	MY	202	Total	C	N	O	S	0	0
			1681	1027	320	328	6		
35	Ma	58	Total	C	N	O		0	0
			463	287	85	91			

- Molecule 36 is a protein called Outer dynein arm-docking complex protein DC3.

Mol	Chain	Residues	Atoms					AltConf	Trace
36	AC	170	Total	C	N	O	S	0	0
			1384	863	242	270	9		
36	AZ	170	Total	C	N	O	S	0	0
			1384	863	242	270	9		
36	Fn	170	Total	C	N	O	S	0	0
			1384	863	242	270	9		
36	LN	170	Total	C	N	O	S	0	0
			1384	863	242	270	9		
36	MO	170	Total	C	N	O	S	0	0
			1384	863	242	270	9		

- Molecule 37 is a protein called Dynein gamma chain, flagellar outer arm.

Mol	Chain	Residues	Atoms					AltConf	Trace
37	AD	4484	Total	C	N	O	S	0	0
			36045	22979	6151	6707	208		
37	AX	4484	Total	C	N	O	S	0	0
			36045	22979	6151	6707	208		
37	Fa	4484	Total	C	N	O	S	0	0
			36045	22979	6151	6707	208		
37	Ks	1170	Total	C	N	O	S	0	0
			9491	6012	1642	1785	52		
37	Lo	4484	Total	C	N	O	S	0	0
			36045	22979	6151	6707	208		

- Molecule 38 is a protein called IC97/Casc1 N-terminal domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
38	AE	633	4866	3070	883	896	17	0	0

- Molecule 39 is a protein called Axonemal inner arm I1 intermediate chain dynein IC138.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
39	AF	540	4240	2684	719	813	24	0	0

- Molecule 40 is a protein called IC140.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
40	AG	732	5632	3523	1015	1073	21	0	0

- Molecule 41 is a protein called Axonemal inner arm dynein I1/f subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
41	AH	182	1313	811	238	263	1	0	0

- Molecule 42 is a protein called Dynein light chain roadblock LC7b.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
42	AI	100	780	488	140	149	3	0	0
42	Bc	94	741	466	133	140	2	0	0
42	Bd	94	741	466	133	140	2	0	0
42	GY	94	741	466	133	140	2	0	0
42	LC	94	741	466	133	140	2	0	0
42	MA	94	741	466	133	140	2	0	0

- Molecule 43 is a protein called Dynein light chain roadblock LC7a.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
43	AK	105	840	533	150	155	2	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
43	BQ	103	827	525	148	153	1	0	0
43	BR	103	827	525	148	153	1	0	0
43	GN	103	827	525	148	153	1	0	0
43	L8	103	827	525	148	153	1	0	0
43	LB	103	827	525	148	153	1	0	0

- Molecule 44 is a protein called Dynein 8 kDa light chain, flagellar outer arm.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
44	AL	91	725	463	122	135	5	0	0
44	AM	86	696	447	117	128	4	0	0
44	AN	91	726	463	122	136	5	0	0
44	AO	91	726	463	122	136	5	0	0
44	AP	91	726	463	122	136	5	0	0
44	AQ	91	726	463	122	136	5	0	0
44	Be	82	671	433	112	122	4	0	0
44	Bp	82	671	433	112	122	4	0	0
44	Bq	82	671	433	112	122	4	0	0
44	Br	82	671	433	112	122	4	0	0
44	CB	82	671	433	112	122	4	0	0
44	CC	82	671	433	112	122	4	0	0
44	CD	85	691	444	116	127	4	0	0
44	CO	85	691	444	116	127	4	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
44	FA	82	Total	C	N	O	S	0	0
			671	433	112	122	4		
44	FB	85	Total	C	N	O	S	0	0
			691	444	116	127	4		
44	GZ	82	Total	C	N	O	S	0	0
			671	433	112	122	4		
44	Ge	82	Total	C	N	O	S	0	0
			671	433	112	122	4		
44	I6	84	Total	C	N	O		0	0
			417	249	84	84			
44	Io	84	Total	C	N	O		0	0
			417	249	84	84			
44	Ip	84	Total	C	N	O		0	0
			417	249	84	84			
44	Iq	84	Total	C	N	O		0	0
			417	249	84	84			
44	Ir	84	Total	C	N	O		0	0
			417	249	84	84			
44	Is	84	Total	C	N	O		0	0
			417	249	84	84			
44	It	84	Total	C	N	O		0	0
			417	249	84	84			
44	Iu	84	Total	C	N	O		0	0
			417	249	84	84			
44	KM	84	Total	C	N	O	S	0	0
			686	442	115	125	4		
44	KN	84	Total	C	N	O	S	0	0
			686	442	115	125	4		
44	KO	84	Total	C	N	O	S	0	0
			686	442	115	125	4		
44	KP	84	Total	C	N	O	S	0	0
			686	442	115	125	4		
44	KQ	84	Total	C	N	O	S	0	0
			686	442	115	125	4		
44	KR	84	Total	C	N	O	S	0	0
			686	442	115	125	4		
44	KS	84	Total	C	N	O	S	0	0
			686	442	115	125	4		
44	KT	84	Total	C	N	O	S	0	0
			686	442	115	125	4		
44	Kc	84	Total	C	N	O	S	0	0
			686	442	115	125	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
44	Kd	84	Total 686	C 442	N 115	O 125	S 4	0	0
44	Ke	84	Total 686	C 442	N 115	O 125	S 4	0	0
44	Kf	84	Total 686	C 442	N 115	O 125	S 4	0	0
44	LD	82	Total 671	C 433	N 112	O 122	S 4	0	0
44	LE	82	Total 671	C 433	N 112	O 122	S 4	0	0
44	LF	82	Total 671	C 433	N 112	O 122	S 4	0	0
44	LG	85	Total 691	C 444	N 116	O 127	S 4	0	0
44	MB	82	Total 671	C 433	N 112	O 122	S 4	0	0
44	MC	82	Total 671	C 433	N 112	O 122	S 4	0	0
44	MD	82	Total 671	C 433	N 112	O 122	S 4	0	0
44	ME	85	Total 691	C 444	N 116	O 127	S 4	0	0

- Molecule 45 is a protein called Dynein light chain Tctex1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
45	AR	114	Total 885	C 556	N 148	O 172	S 9	0	0

- Molecule 46 is a protein called Inner arm dynein light chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
46	AS	120	Total 969	C 618	N 166	O 182	S 3	0	0

- Molecule 47 is a protein called Dynein light chain 10.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
47	AU	98	Total 805	C 523	N 128	O 146	S 8	0	0
47	Ca	98	Total 805	C 523	N 128	O 146	S 8	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
47	FN	98	Total	C	N	O	S	0	0
			805	523	128	146	8		
47	LM	98	Total	C	N	O	S	0	0
			805	523	128	146	8		
47	ML	98	Total	C	N	O	S	0	0
			805	523	128	146	8		

- Molecule 48 is a protein called Cilia- and flagella-associated protein 73.

Mol	Chain	Residues	Atoms					AltConf	Trace
48	AV	273	Total	C	N	O	S	0	0
			2224	1380	395	444	5		

- Molecule 49 is a protein called Cilia- and flagella-associated protein 100.

Mol	Chain	Residues	Atoms					AltConf	Trace
49	AW	410	Total	C	N	O	S	0	0
			3290	2022	593	661	14		

- Molecule 50 is a protein called Dynein, 78 kDa intermediate chain, flagellar outer arm.

Mol	Chain	Residues	Atoms					AltConf	Trace
50	Aa	587	Total	C	N	O	S	0	0
			4676	2956	803	887	30		
50	Ab	587	Total	C	N	O	S	0	0
			4676	2956	803	887	30		
50	Fo	587	Total	C	N	O	S	0	0
			4676	2956	803	887	30		
50	Kt	587	Total	C	N	O	S	0	0
			4676	2956	803	887	30		
50	Lp	587	Total	C	N	O	S	0	0
			4676	2956	803	887	30		

There are 5 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
Aa	474	PRO	ALA	conflict	UNP Q39578
Ab	474	PRO	ALA	conflict	UNP Q39578
Fo	474	PRO	ALA	conflict	UNP Q39578
Kt	474	PRO	ALA	conflict	UNP Q39578
Lp	474	PRO	ALA	conflict	UNP Q39578

- Molecule 51 is a protein called WD_REPEATS_REGION domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
51	Ac	533	Total	C	N	O	S	0	0
			4184	2639	707	817	21		
51	Aq	533	Total	C	N	O	S	0	0
			4184	2639	707	817	21		
51	Fz	533	Total	C	N	O	S	0	0
			4184	2639	707	817	21		
51	Ku	533	Total	C	N	O	S	0	0
			4184	2639	707	817	21		
51	Lq	533	Total	C	N	O	S	0	0
			4184	2639	707	817	21		

- Molecule 52 is a protein called Flagellar outer dynein arm light chain 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
52	Ar	125	Total	C	N	O	S	0	0
			1035	657	175	198	5		
52	As	125	Total	C	N	O	S	0	0
			1035	657	175	198	5		
52	GA	125	Total	C	N	O	S	0	0
			1035	657	175	198	5		
52	Kz	125	Total	C	N	O	S	0	0
			1035	657	175	198	5		
52	Lr	125	Total	C	N	O	S	0	0
			1035	657	175	198	5		

- Molecule 53 is a protein called Dynein 18 kDa light chain, flagellar outer arm.

Mol	Chain	Residues	Atoms					AltConf	Trace
53	BC	138	Total	C	N	O	S	0	0
			1089	677	183	220	9		
53	BD	138	Total	C	N	O	S	0	0
			1089	677	183	220	9		
53	GL	138	Total	C	N	O	S	0	0
			1089	677	183	220	9		
53	K2	138	Total	C	N	O	S	0	0
			1089	677	183	220	9		
53	Lt	138	Total	C	N	O	S	0	0
			1089	677	183	220	9		

- Molecule 54 is a protein called Dynein 11 kDa light chain, flagellar outer arm.

Mol	Chain	Residues	Atoms					AltConf	Trace
54	BE	107	Total	C	N	O	S	0	0
			875	567	144	161	3		
54	BP	107	Total	C	N	O	S	0	0
			875	567	144	161	3		
54	GM	107	Total	C	N	O	S	0	0
			875	567	144	161	3		
54	LA	107	Total	C	N	O	S	0	0
			875	567	144	161	3		
54	Lz	107	Total	C	N	O	S	0	0
			875	567	144	161	3		

- Molecule 55 is a protein called Dynein light chain 9.

Mol	Chain	Residues	Atoms					AltConf	Trace
55	CP	117	Total	C	N	O	S	0	0
			909	568	153	181	7		
55	CQ	117	Total	C	N	O	S	0	0
			909	568	153	181	7		
55	FM	117	Total	C	N	O	S	0	0
			909	568	153	181	7		
55	LL	117	Total	C	N	O	S	0	0
			909	568	153	181	7		
55	MK	117	Total	C	N	O	S	0	0
			909	568	153	181	7		

- Molecule 56 is a protein called Outer dynein arm protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
56	Cc	402	Total	C	N	O	S	0	0
			3238	1993	585	646	14		
56	Cd	402	Total	C	N	O	S	0	0
			3238	1993	585	646	14		
56	Gk	332	Total	C	N	O	S	0	0
			2668	1637	482	539	10		
56	MN	190	Total	C	N	O	S	0	0
			1509	931	261	312	5		
56	MX	403	Total	C	N	O	S	0	0
			3247	1999	587	647	14		
56	MZ	213	Total	C	N	O	S	0	0
			1738	1068	326	335	9		
56	Mb	56	Total	C	N	O	S	0	0
			453	285	82	85	1		

- Molecule 57 is a protein called AAA+ ATPase domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
57	Cn	4500	35901	22840	6137	6740	184	0	0

- Molecule 58 is a protein called Dynein-1-beta heavy chain, flagellar inner arm I1 complex.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
58	Co	4499	35837	22826	6150	6688	173	0	0

- Molecule 59 is a protein called WD_REPEATS_REGION domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
59	Cp	1075	8547	5343	1495	1665	44	0	0
59	Cq	1076	8553	5346	1496	1666	45	0	0

- Molecule 60 is a protein called Inner-arm dynein f/I1 light chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
60	D9	238	1843	1163	315	358	7	0	0

- Molecule 61 is a protein called Heavy chain alpha.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
61	DA	4407	34821	22130	5926	6559	206	0	0
61	DP	4407	34821	22130	5926	6559	206	0	0
61	Gl	4407	34821	22130	5926	6559	206	0	0
61	Lm	4407	34821	22130	5926	6559	206	0	0

- Molecule 62 is a protein called Flagellar outer dynein arm heavy chain beta.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
62	DB	4520	36194	23030	6145	6804	215	0	0
62	Db	4520	36194	23030	6145	6804	215	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
62	Gt	4520	Total 36194	C 23030	N 6145	O 6804	S 215	0	0
62	Kr	765	Total 6182	C 3945	N 1040	O 1160	S 37	0	0
62	Ln	4520	Total 36194	C 23030	N 6145	O 6804	S 215	0	0

- Molecule 63 is a protein called Dynein 14 kDa light chain, flagellar outer arm.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
63	DC	129	Total 999	C 647	N 163	O 185	S 4	0	0
63	Dc	129	Total 999	C 647	N 163	O 185	S 4	0	0
63	HB	129	Total 999	C 647	N 163	O 185	S 4	0	0
63	Ly	129	Total 999	C 647	N 163	O 185	S 4	0	0

- Molecule 64 is a protein called Dynein 16 kDa light chain, flagellar outer arm.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
64	DO	156	Total 1217	C 763	N 215	O 232	S 7	0	0
64	Dn	156	Total 1217	C 763	N 215	O 232	S 7	0	0
64	Gu	156	Total 1217	C 763	N 215	O 232	S 7	0	0
64	Ls	156	Total 1217	C 763	N 215	O 232	S 7	0	0

- Molecule 65 is a protein called FAP44.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
65	Do	1542	Total 11463	C 7132	N 2104	O 2195	S 32	0	0
65	MP	94	Total 749	C 456	N 143	O 148	S 2	0	0

- Molecule 66 is a protein called FAP43.

Mol	Chain	Residues	Atoms					AltConf	Trace
66	Dp	1611	Total	C	N	O	S	0	0
			11683	7241	2168	2226	48		
66	MQ	116	Total	C	N	O	S	0	0
			939	576	189	171	3		

- Molecule 67 is a protein called Dynein regulatory complex protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
67	EA	585	Total	C	N	O	S	0	0
			4819	2976	891	937	15		

- Molecule 68 is a protein called Dynein regulatory complex subunit 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
68	EB	459	Total	C	N	O	S	0	0
			3783	2333	708	726	16		

- Molecule 69 is a protein called Dynein regulatory complex subunit 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
69	EM	208	Total	C	N	O	S	0	0
			1608	1011	280	307	10		

- Molecule 70 is a protein called Dynein regulatory complex subunit 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
70	EN	447	Total	C	N	O	S	0	0
			3721	2320	667	723	11		
70	EO	466	Total	C	N	O	S	0	0
			3839	2390	688	750	11		

- Molecule 71 is a protein called Dynein regulatory complex protein 8.

Mol	Chain	Residues	Atoms					AltConf	Trace
71	EZ	166	Total	C	N	O	S	0	0
			1312	823	230	253	6		
71	HF	166	Total	C	N	O	S	0	0
			1311	823	230	252	6		
71	HM	166	Total	C	N	O	S	0	0
			1311	823	230	252	6		

- Molecule 72 is a protein called ATPase AAA-type core domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
72	Ea	836	6655	4204	1201	1217	33	0	0

- Molecule 73 is a protein called Flagellar associated protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
73	Eb	1355	10789	6774	1945	2027	43	0	0

- Molecule 74 is a protein called Dynein regulatory complex subunit 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
74	Em	524	4240	2641	731	850	18	0	0

- Molecule 75 is a protein called Dynein regulatory complex protein 9.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
75	En	406	3244	2003	604	619	18	0	0

- Molecule 76 is a protein called Dynein regulatory complex protein 10.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
76	Ey	356	2879	1768	540	568	3	0	0

- Molecule 77 is a protein called DRC5.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
77	Ez	390	3047	1900	556	572	19	0	0

- Molecule 78 is a protein called DUF4201 domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
78	F4	347	2762	1710	503	539	10	0	0

- Molecule 79 is a protein called Calmodulin.

Mol	Chain	Residues	Atoms					AltConf	Trace
79	FO	163	Total	C	N	O	S	0	0
			1277	782	210	275	10		
79	JC	143	Total	C	N	O	S	0	0
			737	443	144	148	2		

- Molecule 80 is a protein called Caltractin.

Mol	Chain	Residues	Atoms					AltConf	Trace
80	FZ	169	Total	C	N	O	S	0	0
			1360	839	231	282	8		
80	Md	169	Total	C	N	O	S	0	0
			1360	839	231	282	8		
80	MI	151	Total	C	N	O	S	0	0
			1218	752	202	257	7		

- Molecule 81 is a protein called AAA+ ATPase domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
81	Fm	3953	Total	C	N	O	S	0	0
			31358	19922	5377	5890	169		

- Molecule 82 is a protein called DUF4201 domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
82	Fy	317	Total	C	N	O	S	0	0
			2600	1593	492	510	5		

- Molecule 83 is a protein called Cilia- and flagella-associated protein 299.

Mol	Chain	Residues	Atoms					AltConf	Trace
83	GK	237	Total	C	N	O	S	0	0
			1933	1200	346	383	4		

- Molecule 84 is a protein called Cilia- and flagella-associated protein 53.

Mol	Chain	Residues	Atoms					AltConf	Trace
84	Gb	270	Total	C	N	O	S	0	0
			2234	1353	440	428	13		
84	Ny	32	Total	C	N	O		0	0
			258	159	51	48			
84	OL	470	Total	C	N	O	S	0	0
			3848	2333	750	744	21		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
84	ON	470	3848	2333	750	744	21	0	0

- Molecule 85 is a protein called FAP210.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
85	Gc	429	3494	2120	687	677	10	0	0
85	Gm	320	2618	1573	527	511	7	0	0
85	Gn	239	1907	1165	371	364	7	0	0

- Molecule 86 is a protein called Actin.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
86	Gh	377	2931	1857	494	556	24	0	0
86	JD	377	2930	1857	494	555	24	0	0
86	Km	370	2880	1828	487	542	23	0	0
86	Ld	377	2930	1857	494	555	24	0	0
86	Mc	377	2931	1857	494	556	24	0	0
86	Mk	377	2931	1857	494	556	24	0	0

- Molecule 87 is a protein called Flagellar radial spoke protein 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
87	H0	483	3644	2330	623	679	12	0	0
87	HZ	483	3644	2330	623	679	12	0	0
87	JT	483	3644	2330	623	679	12	0	0
87	JZ	483	3644	2330	623	679	12	0	0

- Molecule 88 is a protein called Flagellar radial spoke protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
88	HX	749	Total 5698	C 3611	N 962	O 1111	S 14	0	0
88	Hh	749	Total 5698	C 3611	N 962	O 1111	S 14	0	0
88	JH	749	Total 5698	C 3611	N 962	O 1111	S 14	0	0
88	JM	749	Total 5698	C 3611	N 962	O 1111	S 14	0	0

- Molecule 89 is a protein called Flagellar radial spoke protein 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
89	Hi	427	Total 3248	C 2048	N 577	O 614	S 9	0	0
89	Hm	427	Total 3248	C 2048	N 577	O 614	S 9	0	0
89	JN	427	Total 3248	C 2048	N 577	O 614	S 9	0	0
89	JO	427	Total 3248	C 2048	N 577	O 614	S 9	0	0

- Molecule 90 is a protein called Radial spoke protein 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
90	Ho	290	Total 2170	C 1342	N 402	O 417	S 9	0	0
90	Hs	287	Total 2163	C 1337	N 399	O 418	S 9	0	0
90	JP	310	Total 2418	C 1506	N 430	O 473	S 9	0	0
90	JQ	331	Total 2583	C 1607	N 457	O 510	S 9	0	0

- Molecule 91 is a protein called Radial spoke protein 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
91	Hx	421	Total 3207	C 2043	N 535	O 621	S 8	0	0
91	Hy	421	Total 3207	C 2043	N 535	O 621	S 8	0	0
91	JR	421	Total 3207	C 2043	N 535	O 621	S 8	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
91	JS	421	Total	C	N	O	S	0	0
			3207	2043	535	621	8		

- Molecule 92 is a protein called Flagellar radial spoke protein 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
92	IA	428	Total	C	N	O	S	0	0
			3214	2043	544	614	13		
92	IB	428	Total	C	N	O	S	0	0
			3214	2043	544	614	13		
92	Ja	428	Total	C	N	O	S	0	0
			3214	2043	544	614	13		
92	Jb	428	Total	C	N	O	S	0	0
			3214	2043	544	614	13		

- Molecule 93 is a protein called Radial spoke protein 7.

Mol	Chain	Residues	Atoms					AltConf	Trace
93	IC	47	Total	C	N	O	S	0	0
			373	243	62	67	1		
93	IE	40	Total	C	N	O		0	0
			316	208	53	55			
93	KD	44	Total	C	N	O		0	0
			353	232	59	62			
93	KE	40	Total	C	N	O		0	0
			316	208	53	55			

- Molecule 94 is a protein called Radial spoke protein 9.

Mol	Chain	Residues	Atoms					AltConf	Trace
94	IF	249	Total	C	N	O	S	0	0
			1930	1233	327	365	5		
94	II	249	Total	C	N	O	S	0	0
			1930	1233	327	365	5		
94	IJ	249	Total	C	N	O	S	0	0
			1930	1233	327	365	5		
94	IN	249	Total	C	N	O	S	0	0
			1930	1233	327	365	5		
94	Jc	249	Total	C	N	O	S	0	0
			1930	1233	327	365	5		
94	Jd	249	Total	C	N	O	S	0	0
			1930	1233	327	365	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
94	Je	249	Total	C	N	O	S	0	0
			1930	1233	327	365	5		
94	Jf	249	Total	C	N	O	S	0	0
			1930	1233	327	365	5		

- Molecule 95 is a protein called Radial spoke protein 10.

Mol	Chain	Residues	Atoms					AltConf	Trace
95	IO	199	Total	C	N	O	S	0	0
			1530	977	257	287	9		
95	IP	199	Total	C	N	O	S	0	0
			1530	977	257	287	9		
95	Jg	199	Total	C	N	O	S	0	0
			1530	977	257	287	9		
95	Jm	199	Total	C	N	O	S	0	0
			1530	977	257	287	9		

- Molecule 96 is a protein called Radial spoke protein 11.

Mol	Chain	Residues	Atoms					AltConf	Trace
96	IQ	48	Total	C	N	O	S	0	0
			382	250	64	67	1		
96	IR	182	Total	C	N	O	S	0	0
			1055	649	198	206	2		
96	KF	49	Total	C	N	O	S	0	0
			391	255	65	70	1		
96	KG	160	Total	C	N	O		0	0
			891	544	172	175			

- Molecule 97 is a protein called Peptidyl-prolyl cis-trans isomerase.

Mol	Chain	Residues	Atoms					AltConf	Trace
97	IS	163	Total	C	N	O	S	0	0
			1241	796	210	231	4		
97	Jn	163	Total	C	N	O	S	0	0
			1241	796	210	231	4		

- Molecule 98 is a protein called Radial spoke protein 14.

Mol	Chain	Residues	Atoms					AltConf	Trace
98	IT	379	Total	C	N	O	S	0	0
			2787	1753	506	518	10		

- Molecule 99 is a protein called Radial spoke protein 16.

Mol	Chain	Residues	Atoms					AltConf	Trace
99	IU	213	Total	C	N	O	S	0	0
			1693	1092	296	301	4		
99	Ia	213	Total	C	N	O	S	0	0
			1693	1092	296	301	4		
99	Ih	64	Total	C	N	O	S	0	0
			528	335	90	100	3		
99	In	64	Total	C	N	O	S	0	0
			528	335	90	100	3		
99	Jo	213	Total	C	N	O	S	0	0
			1693	1092	296	301	4		
99	Jp	213	Total	C	N	O	S	0	0
			1693	1092	296	301	4		
99	KA	64	Total	C	N	O	S	0	0
			528	335	90	100	3		
99	KB	64	Total	C	N	O	S	0	0
			528	335	90	100	3		

- Molecule 100 is a protein called UNKNOWN.

Mol	Chain	Residues	Atoms				AltConf	Trace
100	Ib	34	Total	C	N	O	0	0
			170	102	34	34		

- Molecule 101 is a protein called Nucleoside diphosphate kinase 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
101	Ic	201	Total	C	N	O	S	0	0
			1558	1010	267	276	5		
101	Id	201	Total	C	N	O	S	0	0
			1558	1010	267	276	5		
101	Jq	201	Total	C	N	O	S	0	0
			1558	1010	267	276	5		
101	Jr	201	Total	C	N	O	S	0	0
			1558	1010	267	276	5		

- Molecule 102 is a protein called Cytochrome b5 heme-binding domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
102	Ie	213	Total	C	N	O	S	0	0
			1756	1130	299	320	7		
102	Js	213	Total	C	N	O	S	0	0
			1756	1130	299	320	7		

- Molecule 103 is a protein called FAP385.

Mol	Chain	Residues	Atoms					AltConf	Trace
103	If	50	Total	C	N	O	S	0	0
			427	273	73	78	3		
103	Ig	50	Total	C	N	O	S	0	0
			427	273	73	78	3		
103	Jt	50	Total	C	N	O	S	0	0
			427	273	73	78	3		
103	Jz	50	Total	C	N	O	S	0	0
			427	273	73	78	3		

- Molecule 104 is a protein called FAP207.

Mol	Chain	Residues	Atoms					AltConf	Trace
104	JA	184	Total	C	N	O		0	0
			887	519	184	184			
104	Ka	204	Total	C	N	O	S	0	0
			1639	1029	294	310	6		

- Molecule 105 is a protein called FAP253.

Mol	Chain	Residues	Atoms				AltConf	Trace	
105	JB	290	Total	C	N	O		0	0
			1441	861	290	290			

- Molecule 106 is a protein called 28 kDa inner dynein arm light chain, axonemal.

Mol	Chain	Residues	Atoms					AltConf	Trace
106	JE	204	Total	C	N	O	S	0	0
			1663	1037	292	327	7		
106	JF	202	Total	C	N	O	S	0	0
			1656	1033	291	325	7		
106	Kn	202	Total	C	N	O	S	0	0
			1665	1037	295	327	6		
106	Ko	202	Total	C	N	O	S	0	0
			1666	1043	294	323	6		
106	La	212	Total	C	N	O	S	0	0
			1741	1090	305	339	7		
106	Lb	212	Total	C	N	O	S	0	0
			1741	1090	305	339	7		

- Molecule 107 is a protein called AAA+ ATPase domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
107	JG	4016	31543	20072	5418	5886	167	0	0

- Molecule 108 is a protein called UNKNOWN.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
108	KC	72	360	216	72	72	0	0

- Molecule 109 is a protein called Radial spoke protein 15.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
109	KZ	327	2438	1529	434	465	10	0	0

- Molecule 110 is a protein called Radial spike protein 8.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
110	Kb	307	1516	902	307	307	0	0

- Molecule 111 is a protein called DHC_N2 domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
111	Kg	3950	31252	19918	5344	5825	165	0	0

- Molecule 112 is a protein called Flagellar-associated protein 59.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
112	Kp	410	3379	2066	639	662	12	0	0
112	LR	416	3346	2054	639	645	8	0	0

- Molecule 113 is a protein called Flagellar-associated protein 172.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
113	Kq	426	3398	2082	627	682	7	0	0
113	LS	420	3329	2034	625	659	11	0	0

- Molecule 114 is a protein called Flagellar associated protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
114	LO	1132	8687	5486	1540	1599	62	0	0

- Molecule 115 is a protein called Cilia- and flagella-associated protein 58.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
115	LP	543	4527	2813	818	882	14	0	0
115	LQ	537	4478	2785	808	872	13	0	0

- Molecule 116 is a protein called FAP251.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
116	LY	906	6866	4326	1202	1313	25	0	0

- Molecule 117 is a protein called Cilia- and flagella-associated protein 61.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
117	LZ	1099	8237	5184	1431	1580	42	0	0

- Molecule 118 is a protein called DHC2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
118	Lc	4049	32022	20394	5454	5998	176	0	0

- Molecule 119 is a protein called Subunit of axonemal inner dynein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
119	Le	380	2873	1821	494	542	16	0	0

- Molecule 120 is a protein called Subunit of axonemal inner dynein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
120	Lf	396	3032	1885	542	588	17	0	0

- Molecule 121 is a protein called CFAP91 domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
121	Lg	349	2760	1707	524	523	6	0	0

- Molecule 122 is a protein called AAA+ ATPase domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
122	Me	3936	30885	19642	5311	5753	179	0	0

- Molecule 123 is a protein called AAA+ ATPase domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
123	Mm	3942	31070	19760	5327	5794	189	0	0

- Molecule 124 is a protein called Cilia- and flagella-associated protein 77.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
124	za	106	809	513	145	147	4	0	0
124	zb	205	1586	1009	281	289	7	0	0
124	zc	205	1586	1009	281	289	7	0	0
124	zd	205	1586	1009	281	289	7	0	0
124	ze	205	1586	1009	281	289	7	0	0
124	zf	205	1586	1009	281	289	7	0	0
124	zg	205	1586	1009	281	289	7	0	0
124	zh	205	1586	1009	281	289	7	0	0
124	zi	20	169	109	28	31	1	0	0

- Molecule 125 is a protein called Flagellar associated protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
125	zj	170	Total	C	N	O	0	0
			1360	861	241	258		
125	zk	54	Total	C	N	O	0	0
			440	276	82	82		
125	zl	170	Total	C	N	O	0	0
			1360	861	241	258		

- Molecule 126 is a protein called Flagellar associated protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
126	zr	119	Total	C	N	O	S	0	0
			951	596	168	182	5		
126	zs	119	Total	C	N	O	S	0	0
			951	596	168	182	5		

- Molecule 127 is a protein called FAP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
127	zt	194	Total	C	N	O	S	0	0
			1509	942	278	281	8		
127	zu	194	Total	C	N	O	S	0	0
			1509	942	278	281	8		
127	zv	194	Total	C	N	O	S	0	0
			1509	942	278	281	8		
127	zw	194	Total	C	N	O	S	0	0
			1509	942	278	281	8		
127	zx	194	Total	C	N	O	S	0	0
			1509	942	278	281	8		
127	zy	194	Total	C	N	O	S	0	0
			1509	942	278	281	8		
127	zz	194	Total	C	N	O	S	0	0
			1509	942	278	281	8		

- Molecule 128 is GUANOSINE-5'-TRIPHOSPHATE (three-letter code: GTP) (formula: $C_{10}H_{16}N_5O_{14}P_3$).



Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
128	0A	1	Total 32	10	5	14	3	0
128	0C	1	Total 32	10	5	14	3	0
128	0F	1	Total 32	10	5	14	3	0
128	0I	1	Total 32	10	5	14	3	0
128	0K	1	Total 32	10	5	14	3	0
128	0M	1	Total 32	10	5	14	3	0
128	0O	1	Total 32	10	5	14	3	0
128	0Q	1	Total 32	10	5	14	3	0
128	0R	1	Total 32	10	5	14	3	0
128	0V	1	Total 32	10	5	14	3	0
128	0Y	1	Total 32	10	5	14	3	0
128	1A	1	Total 32	10	5	14	3	0
128	1C	1	Total 32	10	5	14	3	0
128	1D	1	Total 32	10	5	14	3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
128	1G	1	Total 32	C 10	N 5	O 14	P 3	0
128	1H	1	Total 32	C 10	N 5	O 14	P 3	0
128	1L	1	Total 32	C 10	N 5	O 14	P 3	0
128	1N	1	Total 32	C 10	N 5	O 14	P 3	0
128	1Q	1	Total 32	C 10	N 5	O 14	P 3	0
128	1S	1	Total 32	C 10	N 5	O 14	P 3	0
128	1T	1	Total 32	C 10	N 5	O 14	P 3	0
128	1W	1	Total 32	C 10	N 5	O 14	P 3	0
128	1X	1	Total 32	C 10	N 5	O 14	P 3	0
128	2A	1	Total 32	C 10	N 5	O 14	P 3	0
128	2C	1	Total 32	C 10	N 5	O 14	P 3	0
128	2E	1	Total 32	C 10	N 5	O 14	P 3	0
128	2G	1	Total 32	C 10	N 5	O 14	P 3	0
128	2I	1	Total 32	C 10	N 5	O 14	P 3	0
128	2K	1	Total 32	C 10	N 5	O 14	P 3	0
128	2L	1	Total 32	C 10	N 5	O 14	P 3	0
128	2Q	1	Total 32	C 10	N 5	O 14	P 3	0
128	2S	1	Total 32	C 10	N 5	O 14	P 3	0
128	2U	1	Total 32	C 10	N 5	O 14	P 3	0
128	2W	1	Total 32	C 10	N 5	O 14	P 3	0
128	2Y	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
128	3A	1	Total 32	C 10	N 5	O 14	P 3	0
128	3C	1	Total 32	C 10	N 5	O 14	P 3	0
128	3G	1	Total 32	C 10	N 5	O 14	P 3	0
128	3I	1	Total 32	C 10	N 5	O 14	P 3	0
128	3K	1	Total 32	C 10	N 5	O 14	P 3	0
128	3M	1	Total 32	C 10	N 5	O 14	P 3	0
128	3O	1	Total 32	C 10	N 5	O 14	P 3	0
128	3P	1	Total 32	C 10	N 5	O 14	P 3	0
128	3S	1	Total 32	C 10	N 5	O 14	P 3	0
128	8H	1	Total 32	C 10	N 5	O 14	P 3	0
128	8I	1	Total 32	C 10	N 5	O 14	P 3	0
128	8L	1	Total 32	C 10	N 5	O 14	P 3	0
128	8M	1	Total 32	C 10	N 5	O 14	P 3	0
128	A1	1	Total 32	C 10	N 5	O 14	P 3	0
128	A2	1	Total 32	C 10	N 5	O 14	P 3	0
128	A4	1	Total 32	C 10	N 5	O 14	P 3	0
128	A9	1	Total 32	C 10	N 5	O 14	P 3	0
128	AT	1	Total 32	C 10	N 5	O 14	P 3	0
128	Ag	1	Total 32	C 10	N 5	O 14	P 3	0
128	Aj	1	Total 32	C 10	N 5	O 14	P 3	0
128	Ak	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
128	An	1	Total 32	C 10	N 5	O 14	P 3	0
128	Ao	1	Total 32	C 10	N 5	O 14	P 3	0
128	At	1	Total 32	C 10	N 5	O 14	P 3	0
128	Av	1	Total 32	C 10	N 5	O 14	P 3	0
128	Ay	1	Total 32	C 10	N 5	O 14	P 3	0
128	Az	1	Total 32	C 10	N 5	O 14	P 3	0
128	B0	1	Total 32	C 10	N 5	O 14	P 3	0
128	B2	1	Total 32	C 10	N 5	O 14	P 3	0
128	B5	1	Total 32	C 10	N 5	O 14	P 3	0
128	B7	1	Total 32	C 10	N 5	O 14	P 3	0
128	BB	1	Total 32	C 10	N 5	O 14	P 3	0
128	BG	1	Total 32	C 10	N 5	O 14	P 3	0
128	BH	1	Total 32	C 10	N 5	O 14	P 3	0
128	BJ	1	Total 32	C 10	N 5	O 14	P 3	0
128	BL	1	Total 32	C 10	N 5	O 14	P 3	0
128	BN	1	Total 32	C 10	N 5	O 14	P 3	0
128	BU	1	Total 32	C 10	N 5	O 14	P 3	0
128	BW	1	Total 32	C 10	N 5	O 14	P 3	0
128	BY	1	Total 32	C 10	N 5	O 14	P 3	0
128	Ba	1	Total 32	C 10	N 5	O 14	P 3	0
128	Bb	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms				AltConf	
			Total	C	N	O		P
128	Bf	1	32	10	5	14	3	0
128	Bh	1	32	10	5	14	3	0
128	Bi	1	32	10	5	14	3	0
128	Bl	1	32	10	5	14	3	0
128	Bm	1	32	10	5	14	3	0
128	Bo	1	32	10	5	14	3	0
128	Bu	1	32	10	5	14	3	0
128	Bw	1	32	10	5	14	3	0
128	By	1	32	10	5	14	3	0
128	Bz	1	32	10	5	14	3	0
128	C0	1	32	10	5	14	3	0
128	C1	1	32	10	5	14	3	0
128	C4	1	32	10	5	14	3	0
128	C5	1	32	10	5	14	3	0
128	C8	1	32	10	5	14	3	0
128	C9	1	32	10	5	14	3	0
128	CE	1	32	10	5	14	3	0
128	CG	1	32	10	5	14	3	0
128	CI	1	32	10	5	14	3	0
128	CK	1	32	10	5	14	3	0
128	CM	1	32	10	5	14	3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
128	CR	1	Total 32	C 10	N 5	O 14	P 3	0
128	CS	1	Total 32	C 10	N 5	O 14	P 3	0
128	CU	1	Total 32	C 10	N 5	O 14	P 3	0
128	CX	1	Total 32	C 10	N 5	O 14	P 3	0
128	CZ	1	Total 32	C 10	N 5	O 14	P 3	0
128	Ce	1	Total 32	C 10	N 5	O 14	P 3	0
128	Cg	1	Total 32	C 10	N 5	O 14	P 3	0
128	Ci	1	Total 32	C 10	N 5	O 14	P 3	0
128	Cj	1	Total 32	C 10	N 5	O 14	P 3	0
128	Cm	1	Total 32	C 10	N 5	O 14	P 3	0
128	Cr	1	Total 32	C 10	N 5	O 14	P 3	0
128	Ct	1	Total 32	C 10	N 5	O 14	P 3	0
128	Cv	1	Total 32	C 10	N 5	O 14	P 3	0
128	Cx	1	Total 32	C 10	N 5	O 14	P 3	0
128	Cz	1	Total 32	C 10	N 5	O 14	P 3	0
128	D1	1	Total 32	C 10	N 5	O 14	P 3	0
128	D3	1	Total 32	C 10	N 5	O 14	P 3	0
128	D5	1	Total 32	C 10	N 5	O 14	P 3	0
128	D7	1	Total 32	C 10	N 5	O 14	P 3	0
128	DE	1	Total 32	C 10	N 5	O 14	P 3	0
128	DG	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
128	DH	1	Total 32	C 10	N 5	O 14	P 3	0
128	DK	1	Total 32	C 10	N 5	O 14	P 3	0
128	DM	1	Total 32	C 10	N 5	O 14	P 3	0
128	DR	1	Total 32	C 10	N 5	O 14	P 3	0
128	DT	1	Total 32	C 10	N 5	O 14	P 3	0
128	DV	1	Total 32	C 10	N 5	O 14	P 3	0
128	DX	1	Total 32	C 10	N 5	O 14	P 3	0
128	DZ	1	Total 32	C 10	N 5	O 14	P 3	0
128	De	1	Total 32	C 10	N 5	O 14	P 3	0
128	Df	1	Total 32	C 10	N 5	O 14	P 3	0
128	Di	1	Total 32	C 10	N 5	O 14	P 3	0
128	Dk	1	Total 32	C 10	N 5	O 14	P 3	0
128	Dm	1	Total 32	C 10	N 5	O 14	P 3	0
128	Dr	1	Total 32	C 10	N 5	O 14	P 3	0
128	Dt	1	Total 32	C 10	N 5	O 14	P 3	0
128	Du	1	Total 32	C 10	N 5	O 14	P 3	0
128	Dw	1	Total 32	C 10	N 5	O 14	P 3	0
128	Dz	1	Total 32	C 10	N 5	O 14	P 3	0
128	E0	1	Total 32	C 10	N 5	O 14	P 3	0
128	E1	1	Total 32	C 10	N 5	O 14	P 3	0
128	E4	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
128	E6	1	Total 32	C 10	N 5	O 14	P 3	0
128	E8	1	Total 32	C 10	N 5	O 14	P 3	0
128	ED	1	Total 32	C 10	N 5	O 14	P 3	0
128	EF	1	Total 32	C 10	N 5	O 14	P 3	0
128	EH	1	Total 32	C 10	N 5	O 14	P 3	0
128	EI	1	Total 32	C 10	N 5	O 14	P 3	0
128	EL	1	Total 32	C 10	N 5	O 14	P 3	0
128	EQ	1	Total 32	C 10	N 5	O 14	P 3	0
128	ER	1	Total 32	C 10	N 5	O 14	P 3	0
128	EU	1	Total 32	C 10	N 5	O 14	P 3	0
128	EV	1	Total 32	C 10	N 5	O 14	P 3	0
128	EY	1	Total 32	C 10	N 5	O 14	P 3	0
128	Ed	1	Total 32	C 10	N 5	O 14	P 3	0
128	Ee	1	Total 32	C 10	N 5	O 14	P 3	0
128	Eh	1	Total 32	C 10	N 5	O 14	P 3	0
128	Ei	1	Total 32	C 10	N 5	O 14	P 3	0
128	El	1	Total 32	C 10	N 5	O 14	P 3	0
128	Eq	1	Total 32	C 10	N 5	O 14	P 3	0
128	Es	1	Total 32	C 10	N 5	O 14	P 3	0
128	Eu	1	Total 32	C 10	N 5	O 14	P 3	0
128	Ew	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
128	F0	1	Total 32	C 10	N 5	O 14	P 3	0
128	F1	1	Total 32	C 10	N 5	O 14	P 3	0
128	F3	1	Total 32	C 10	N 5	O 14	P 3	0
128	F5	1	Total 32	C 10	N 5	O 14	P 3	0
128	F8	1	Total 32	C 10	N 5	O 14	P 3	0
128	FE	1	Total 32	C 10	N 5	O 14	P 3	0
128	FG	1	Total 32	C 10	N 5	O 14	P 3	0
128	FI	1	Total 32	C 10	N 5	O 14	P 3	0
128	FJ	1	Total 32	C 10	N 5	O 14	P 3	0
128	FQ	1	Total 32	C 10	N 5	O 14	P 3	0
128	FT	1	Total 32	C 10	N 5	O 14	P 3	0
128	FV	1	Total 32	C 10	N 5	O 14	P 3	0
128	FW	1	Total 32	C 10	N 5	O 14	P 3	0
128	Fc	1	Total 32	C 10	N 5	O 14	P 3	0
128	Fe	1	Total 32	C 10	N 5	O 14	P 3	0
128	Fg	1	Total 32	C 10	N 5	O 14	P 3	0
128	Fi	1	Total 32	C 10	N 5	O 14	P 3	0
128	Fk	1	Total 32	C 10	N 5	O 14	P 3	0
128	Fl	1	Total 32	C 10	N 5	O 14	P 3	0
128	Fp	1	Total 32	C 10	N 5	O 14	P 3	0
128	Fr	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
128	Ft	1	Total 32	C 10	N 5	O 14	P 3	0
128	Fv	1	Total 32	C 10	N 5	O 14	P 3	0
128	Fx	1	Total 32	C 10	N 5	O 14	P 3	0
128	G0	1	Total 32	C 10	N 5	O 14	P 3	0
128	G1	1	Total 32	C 10	N 5	O 14	P 3	0
128	G3	1	Total 32	C 10	N 5	O 14	P 3	0
128	G5	1	Total 32	C 10	N 5	O 14	P 3	0
128	G7	1	Total 32	C 10	N 5	O 14	P 3	0
128	GB	1	Total 32	C 10	N 5	O 14	P 3	0
128	GD	1	Total 32	C 10	N 5	O 14	P 3	0
128	GF	1	Total 32	C 10	N 5	O 14	P 3	0
128	GH	1	Total 32	C 10	N 5	O 14	P 3	0
128	GI	1	Total 32	C 10	N 5	O 14	P 3	0
128	H2	1	Total 32	C 10	N 5	O 14	P 3	0
128	H3	1	Total 32	C 10	N 5	O 14	P 3	0
128	H6	1	Total 32	C 10	N 5	O 14	P 3	0
128	H8	1	Total 32	C 10	N 5	O 14	P 3	0
128	I0	1	Total 32	C 10	N 5	O 14	P 3	0
128	I1	1	Total 32	C 10	N 5	O 14	P 3	0
128	I4	1	Total 32	C 10	N 5	O 14	P 3	0
128	I5	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
128	I8	1	Total 32	C 10	N 5	O 14	P 3	0
128	IK	1	Total 32	C 10	N 5	O 14	P 3	0
128	IL	1	Total 32	C 10	N 5	O 14	P 3	0
128	IW	1	Total 32	C 10	N 5	O 14	P 3	0
128	IX	1	Total 32	C 10	N 5	O 14	P 3	0
128	Ii	1	Total 32	C 10	N 5	O 14	P 3	0
128	Ik	1	Total 32	C 10	N 5	O 14	P 3	0
128	Iw	1	Total 32	C 10	N 5	O 14	P 3	0
128	Iy	1	Total 32	C 10	N 5	O 14	P 3	0
128	J0	1	Total 32	C 10	N 5	O 14	P 3	0
128	J2	1	Total 32	C 10	N 5	O 14	P 3	0
128	J4	1	Total 32	C 10	N 5	O 14	P 3	0
128	J6	1	Total 32	C 10	N 5	O 14	P 3	0
128	J8	1	Total 32	C 10	N 5	O 14	P 3	0
128	JI	1	Total 32	C 10	N 5	O 14	P 3	0
128	JK	1	Total 32	C 10	N 5	O 14	P 3	0
128	JU	1	Total 32	C 10	N 5	O 14	P 3	0
128	JW	1	Total 32	C 10	N 5	O 14	P 3	0
128	JX	1	Total 32	C 10	N 5	O 14	P 3	0
128	Jh	1	Total 32	C 10	N 5	O 14	P 3	0
128	Jj	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
128	Jl	1	Total 32	C 10	N 5	O 14	P 3	0
128	Jw	1	Total 32	C 10	N 5	O 14	P 3	0
128	Jy	1	Total 32	C 10	N 5	O 14	P 3	0
128	K0	1	Total 32	C 10	N 5	O 14	P 3	0
128	K4	1	Total 32	C 10	N 5	O 14	P 3	0
128	K6	1	Total 32	C 10	N 5	O 14	P 3	0
128	K7	1	Total 32	C 10	N 5	O 14	P 3	0
128	K9	1	Total 32	C 10	N 5	O 14	P 3	0
128	KH	1	Total 32	C 10	N 5	O 14	P 3	0
128	KI	1	Total 32	C 10	N 5	O 14	P 3	0
128	KL	1	Total 32	C 10	N 5	O 14	P 3	0
128	KU	1	Total 32	C 10	N 5	O 14	P 3	0
128	KW	1	Total 32	C 10	N 5	O 14	P 3	0
128	KY	1	Total 32	C 10	N 5	O 14	P 3	0
128	Kj	1	Total 32	C 10	N 5	O 14	P 3	0
128	Kl	1	Total 32	C 10	N 5	O 14	P 3	0
128	Kv	1	Total 32	C 10	N 5	O 14	P 3	0
128	Kx	1	Total 32	C 10	N 5	O 14	P 3	0
128	L2	1	Total 32	C 10	N 5	O 14	P 3	0
128	L4	1	Total 32	C 10	N 5	O 14	P 3	0
128	L6	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
128	LH	1	Total 32	C 10	N 5	O 14	P 3	0
128	LJ	1	Total 32	C 10	N 5	O 14	P 3	0
128	LU	1	Total 32	C 10	N 5	O 14	P 3	0
128	LX	1	Total 32	C 10	N 5	O 14	P 3	0
128	Lh	1	Total 32	C 10	N 5	O 14	P 3	0
128	Li	1	Total 32	C 10	N 5	O 14	P 3	0
128	Lu	1	Total 32	C 10	N 5	O 14	P 3	0
128	Lv	1	Total 32	C 10	N 5	O 14	P 3	0
128	M0	1	Total 32	C 10	N 5	O 14	P 3	0
128	M2	1	Total 32	C 10	N 5	O 14	P 3	0
128	M4	1	Total 32	C 10	N 5	O 14	P 3	0
128	M6	1	Total 32	C 10	N 5	O 14	P 3	0
128	M7	1	Total 32	C 10	N 5	O 14	P 3	0
128	MG	1	Total 32	C 10	N 5	O 14	P 3	0
128	MH	1	Total 32	C 10	N 5	O 14	P 3	0
128	MT	1	Total 32	C 10	N 5	O 14	P 3	0
128	MV	1	Total 32	C 10	N 5	O 14	P 3	0
128	Mg	1	Total 32	C 10	N 5	O 14	P 3	0
128	Mh	1	Total 32	C 10	N 5	O 14	P 3	0
128	Mt	1	Total 32	C 10	N 5	O 14	P 3	0
128	Mu	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
128	N0	1	Total 32	C 10	N 5	O 14	P 3	0
128	N1	1	Total 32	C 10	N 5	O 14	P 3	0
128	N6	1	Total 32	C 10	N 5	O 14	P 3	0
128	N8	1	Total 32	C 10	N 5	O 14	P 3	0
128	NF	1	Total 32	C 10	N 5	O 14	P 3	0
128	NH	1	Total 32	C 10	N 5	O 14	P 3	0
128	NJ	1	Total 32	C 10	N 5	O 14	P 3	0
128	NS	1	Total 32	C 10	N 5	O 14	P 3	0
128	NU	1	Total 32	C 10	N 5	O 14	P 3	0
128	NW	1	Total 32	C 10	N 5	O 14	P 3	0
128	Nf	1	Total 32	C 10	N 5	O 14	P 3	0
128	Nh	1	Total 32	C 10	N 5	O 14	P 3	0
128	Ni	1	Total 32	C 10	N 5	O 14	P 3	0
128	O0	1	Total 32	C 10	N 5	O 14	P 3	0
128	O2	1	Total 32	C 10	N 5	O 14	P 3	0
128	O4	1	Total 32	C 10	N 5	O 14	P 3	0
128	O6	1	Total 32	C 10	N 5	O 14	P 3	0
128	O8	1	Total 32	C 10	N 5	O 14	P 3	0
128	P4	1	Total 32	C 10	N 5	O 14	P 3	0
128	P6	1	Total 32	C 10	N 5	O 14	P 3	0
128	P8	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
128	P9	1	Total 32	C 10	N 5	O 14	P 3	0
128	Q2	1	Total 32	C 10	N 5	O 14	P 3	0
128	Q4	1	Total 32	C 10	N 5	O 14	P 3	0
128	Q6	1	Total 32	C 10	N 5	O 14	P 3	0
128	R0	1	Total 32	C 10	N 5	O 14	P 3	0
128	R2	1	Total 32	C 10	N 5	O 14	P 3	0
128	R4	1	Total 32	C 10	N 5	O 14	P 3	0
128	R6	1	Total 32	C 10	N 5	O 14	P 3	0
128	R8	1	Total 32	C 10	N 5	O 14	P 3	0
128	S0	1	Total 32	C 10	N 5	O 14	P 3	0
128	S2	1	Total 32	C 10	N 5	O 14	P 3	0
128	S5	1	Total 32	C 10	N 5	O 14	P 3	0
128	S8	1	Total 32	C 10	N 5	O 14	P 3	0
128	S9	1	Total 32	C 10	N 5	O 14	P 3	0
128	T2	1	Total 32	C 10	N 5	O 14	P 3	0
128	T4	1	Total 32	C 10	N 5	O 14	P 3	0
128	T6	1	Total 32	C 10	N 5	O 14	P 3	0
128	T8	1	Total 32	C 10	N 5	O 14	P 3	0
128	U2	1	Total 32	C 10	N 5	O 14	P 3	0
128	U4	1	Total 32	C 10	N 5	O 14	P 3	0
128	U6	1	Total 32	C 10	N 5	O 14	P 3	0

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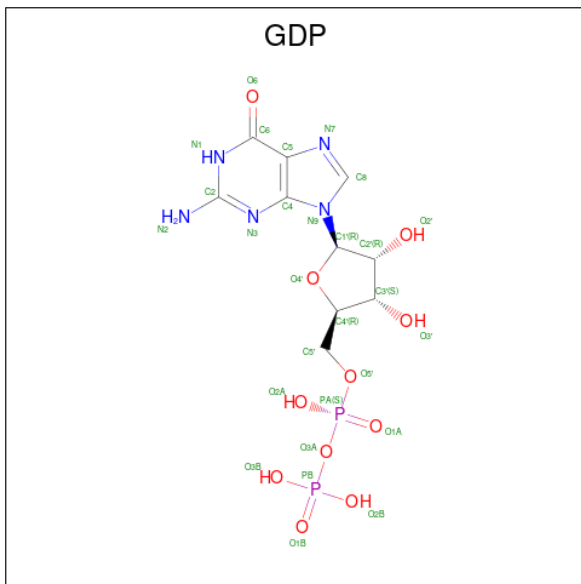
Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
128	U7	1	Total 32	C 10	N 5	O 14	P 3	0
128	U9	1	Total 32	C 10	N 5	O 14	P 3	0
128	V2	1	Total 32	C 10	N 5	O 14	P 3	0
128	V3	1	Total 32	C 10	N 5	O 14	P 3	0
128	V8	1	Total 32	C 10	N 5	O 14	P 3	0
128	W0	1	Total 32	C 10	N 5	O 14	P 3	0
128	W2	1	Total 32	C 10	N 5	O 14	P 3	0
128	W4	1	Total 32	C 10	N 5	O 14	P 3	0
128	W5	1	Total 32	C 10	N 5	O 14	P 3	0
128	W8	1	Total 32	C 10	N 5	O 14	P 3	0
128	X0	1	Total 32	C 10	N 5	O 14	P 3	0
128	X4	1	Total 32	C 10	N 5	O 14	P 3	0
128	X6	1	Total 32	C 10	N 5	O 14	P 3	0
128	X7	1	Total 32	C 10	N 5	O 14	P 3	0
128	Y0	1	Total 32	C 10	N 5	O 14	P 3	0
128	Y1	1	Total 32	C 10	N 5	O 14	P 3	0
128	Y4	1	Total 32	C 10	N 5	O 14	P 3	0
128	Y6	1	Total 32	C 10	N 5	O 14	P 3	0
128	Z0	1	Total 32	C 10	N 5	O 14	P 3	0
128	Z2	1	Total 32	C 10	N 5	O 14	P 3	0
128	Z3	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms				AltConf	
			Total	C	N	O		P
128	Z6	1	Total	C	N	O	P	0
			32	10	5	14	3	
128	Z7	1	Total	C	N	O	P	0
			32	10	5	14	3	

- Molecule 129 is GUANOSINE-5'-DIPHOSPHATE (three-letter code: GDP) (formula: $C_{10}H_{15}N_5O_{11}P_2$).



Mol	Chain	Residues	Atoms				AltConf	
			Total	C	N	O		P
129	0A	1	Total	C	N	O	P	0
			28	10	5	11	2	
129	0C	1	Total	C	N	O	P	0
			28	10	5	11	2	
129	0E	1	Total	C	N	O	P	0
			28	10	5	11	2	
129	0G	1	Total	C	N	O	P	0
			28	10	5	11	2	
129	0I	1	Total	C	N	O	P	0
			28	10	5	11	2	
129	0K	1	Total	C	N	O	P	0
			28	10	5	11	2	
129	0M	1	Total	C	N	O	P	0
			28	10	5	11	2	
129	0O	1	Total	C	N	O	P	0
			28	10	5	11	2	
129	0Q	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
129	0S	1	Total 28	C 10	N 5	O 11	P 2	0
129	0U	1	Total 28	C 10	N 5	O 11	P 2	0
129	0W	1	Total 28	C 10	N 5	O 11	P 2	0
129	0Y	1	Total 28	C 10	N 5	O 11	P 2	0
129	1A	1	Total 28	C 10	N 5	O 11	P 2	0
129	1C	1	Total 28	C 10	N 5	O 11	P 2	0
129	1E	1	Total 28	C 10	N 5	O 11	P 2	0
129	1G	1	Total 28	C 10	N 5	O 11	P 2	0
129	1K	1	Total 28	C 10	N 5	O 11	P 2	0
129	1M	1	Total 28	C 10	N 5	O 11	P 2	0
129	1O	1	Total 28	C 10	N 5	O 11	P 2	0
129	1Q	1	Total 28	C 10	N 5	O 11	P 2	0
129	1S	1	Total 28	C 10	N 5	O 11	P 2	0
129	1U	1	Total 28	C 10	N 5	O 11	P 2	0
129	1W	1	Total 28	C 10	N 5	O 11	P 2	0
129	2A	1	Total 28	C 10	N 5	O 11	P 2	0
129	2C	1	Total 28	C 10	N 5	O 11	P 2	0
129	2E	1	Total 28	C 10	N 5	O 11	P 2	0
129	2G	1	Total 28	C 10	N 5	O 11	P 2	0
129	2I	1	Total 28	C 10	N 5	O 11	P 2	0
129	2K	1	Total 28	C 10	N 5	O 11	P 2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
129	2M	1	Total 28	C 10	N 5	O 11	P 2	0
129	2Q	1	Total 28	C 10	N 5	O 11	P 2	0
129	2S	1	Total 28	C 10	N 5	O 11	P 2	0
129	2U	1	Total 28	C 10	N 5	O 11	P 2	0
129	2W	1	Total 28	C 10	N 5	O 11	P 2	0
129	2Y	1	Total 28	C 10	N 5	O 11	P 2	0
129	3A	1	Total 28	C 10	N 5	O 11	P 2	0
129	3C	1	Total 28	C 10	N 5	O 11	P 2	0
129	3G	1	Total 28	C 10	N 5	O 11	P 2	0
129	3I	1	Total 28	C 10	N 5	O 11	P 2	0
129	3K	1	Total 28	C 10	N 5	O 11	P 2	0
129	3M	1	Total 28	C 10	N 5	O 11	P 2	0
129	3O	1	Total 28	C 10	N 5	O 11	P 2	0
129	3Q	1	Total 28	C 10	N 5	O 11	P 2	0
129	3S	1	Total 28	C 10	N 5	O 11	P 2	0
129	8H	1	Total 28	C 10	N 5	O 11	P 2	0
129	8J	1	Total 28	C 10	N 5	O 11	P 2	0
129	8L	1	Total 28	C 10	N 5	O 11	P 2	0
129	8N	1	Total 28	C 10	N 5	O 11	P 2	0
129	A1	1	Total 28	C 10	N 5	O 11	P 2	0
129	A3	1	Total 28	C 10	N 5	O 11	P 2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
129	A5	1	28	10	5	11	2	0
129	A6	1	28	10	5	11	2	0
129	A7	1	28	10	5	11	2	0
129	A9	1	28	10	5	11	2	0
129	AJ	1	28	10	5	11	2	0
129	Ah	1	28	10	5	11	2	0
129	Aj	1	28	10	5	11	2	0
129	Al	1	28	10	5	11	2	0
129	An	1	28	10	5	11	2	0
129	Ap	1	28	10	5	11	2	0
129	Au	1	28	10	5	11	2	0
129	Aw	1	28	10	5	11	2	0
129	Ay	1	28	10	5	11	2	0
129	B1	1	28	10	5	11	2	0
129	B3	1	28	10	5	11	2	0
129	B5	1	28	10	5	11	2	0
129	B6	1	28	10	5	11	2	0
129	B8	1	28	10	5	11	2	0
129	BB	1	28	10	5	11	2	0
129	BG	1	28	10	5	11	2	0
129	BI	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
129	BK	1	28	10	5	11	2	0
129	BM	1	28	10	5	11	2	0
129	BO	1	28	10	5	11	2	0
129	BS	1	28	10	5	11	2	0
129	BU	1	28	10	5	11	2	0
129	BW	1	28	10	5	11	2	0
129	BY	1	28	10	5	11	2	0
129	Ba	1	28	10	5	11	2	0
129	Bf	1	28	10	5	11	2	0
129	Bh	1	28	10	5	11	2	0
129	Bj	1	28	10	5	11	2	0
129	Bl	1	28	10	5	11	2	0
129	Bn	1	28	10	5	11	2	0
129	Bs	1	28	10	5	11	2	0
129	Bu	1	28	10	5	11	2	0
129	Bw	1	28	10	5	11	2	0
129	By	1	28	10	5	11	2	0
129	C0	1	28	10	5	11	2	0
129	C2	1	28	10	5	11	2	0
129	C4	1	28	10	5	11	2	0
129	C6	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
129	C8	1	28	10	5	11	2	0
129	CE	1	28	10	5	11	2	0
129	CG	1	28	10	5	11	2	0
129	CI	1	28	10	5	11	2	0
129	CK	1	28	10	5	11	2	0
129	CM	1	28	10	5	11	2	0
129	CR	1	28	10	5	11	2	0
129	CT	1	28	10	5	11	2	0
129	CV	1	28	10	5	11	2	0
129	CX	1	28	10	5	11	2	0
129	CZ	1	28	10	5	11	2	0
129	Ce	1	28	10	5	11	2	0
129	Cg	1	28	10	5	11	2	0
129	Ci	1	28	10	5	11	2	0
129	Ck	1	28	10	5	11	2	0
129	Cm	1	28	10	5	11	2	0
129	Cr	1	28	10	5	11	2	0
129	Ct	1	28	10	5	11	2	0
129	Cv	1	28	10	5	11	2	0
129	Cx	1	28	10	5	11	2	0
129	Cz	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
129	D0	1	Total 28	C 10	N 5	O 11	P 2	0
129	D2	1	Total 28	C 10	N 5	O 11	P 2	0
129	D4	1	Total 28	C 10	N 5	O 11	P 2	0
129	D6	1	Total 28	C 10	N 5	O 11	P 2	0
129	D8	1	Total 28	C 10	N 5	O 11	P 2	0
129	DE	1	Total 28	C 10	N 5	O 11	P 2	0
129	DG	1	Total 28	C 10	N 5	O 11	P 2	0
129	DI	1	Total 28	C 10	N 5	O 11	P 2	0
129	DK	1	Total 28	C 10	N 5	O 11	P 2	0
129	DM	1	Total 28	C 10	N 5	O 11	P 2	0
129	DR	1	Total 28	C 10	N 5	O 11	P 2	0
129	DT	1	Total 28	C 10	N 5	O 11	P 2	0
129	DV	1	Total 28	C 10	N 5	O 11	P 2	0
129	DX	1	Total 28	C 10	N 5	O 11	P 2	0
129	DZ	1	Total 28	C 10	N 5	O 11	P 2	0
129	De	1	Total 28	C 10	N 5	O 11	P 2	0
129	Dg	1	Total 28	C 10	N 5	O 11	P 2	0
129	Di	1	Total 28	C 10	N 5	O 11	P 2	0
129	Dk	1	Total 28	C 10	N 5	O 11	P 2	0
129	Dm	1	Total 28	C 10	N 5	O 11	P 2	0
129	Dr	1	Total 28	C 10	N 5	O 11	P 2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
129	Dt	1	Total 28	C 10	N 5	O 11	P 2	0
129	Dv	1	Total 28	C 10	N 5	O 11	P 2	0
129	Dx	1	Total 28	C 10	N 5	O 11	P 2	0
129	Dz	1	Total 28	C 10	N 5	O 11	P 2	0
129	E0	1	Total 28	C 10	N 5	O 11	P 2	0
129	E2	1	Total 28	C 10	N 5	O 11	P 2	0
129	E4	1	Total 28	C 10	N 5	O 11	P 2	0
129	E6	1	Total 28	C 10	N 5	O 11	P 2	0
129	E8	1	Total 28	C 10	N 5	O 11	P 2	0
129	ED	1	Total 28	C 10	N 5	O 11	P 2	0
129	EF	1	Total 28	C 10	N 5	O 11	P 2	0
129	EH	1	Total 28	C 10	N 5	O 11	P 2	0
129	EJ	1	Total 28	C 10	N 5	O 11	P 2	0
129	EL	1	Total 28	C 10	N 5	O 11	P 2	0
129	EQ	1	Total 28	C 10	N 5	O 11	P 2	0
129	ES	1	Total 28	C 10	N 5	O 11	P 2	0
129	EU	1	Total 28	C 10	N 5	O 11	P 2	0
129	EW	1	Total 28	C 10	N 5	O 11	P 2	0
129	EY	1	Total 28	C 10	N 5	O 11	P 2	0
129	Ed	1	Total 28	C 10	N 5	O 11	P 2	0
129	Ef	1	Total 28	C 10	N 5	O 11	P 2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
129	Eh	1	Total 28	C 10	N 5	O 11	P 2	0
129	Ej	1	Total 28	C 10	N 5	O 11	P 2	0
129	El	1	Total 28	C 10	N 5	O 11	P 2	0
129	Eq	1	Total 28	C 10	N 5	O 11	P 2	0
129	Es	1	Total 28	C 10	N 5	O 11	P 2	0
129	Eu	1	Total 28	C 10	N 5	O 11	P 2	0
129	Ew	1	Total 28	C 10	N 5	O 11	P 2	0
129	F0	1	Total 28	C 10	N 5	O 11	P 2	0
129	F2	1	Total 28	C 10	N 5	O 11	P 2	0
129	F6	1	Total 28	C 10	N 5	O 11	P 2	0
129	F8	1	Total 28	C 10	N 5	O 11	P 2	0
129	FC	1	Total 28	C 10	N 5	O 11	P 2	0
129	FE	1	Total 28	C 10	N 5	O 11	P 2	0
129	FG	1	Total 28	C 10	N 5	O 11	P 2	0
129	FI	1	Total 28	C 10	N 5	O 11	P 2	0
129	FK	1	Total 28	C 10	N 5	O 11	P 2	0
129	FP	1	Total 28	C 10	N 5	O 11	P 2	0
129	FR	1	Total 28	C 10	N 5	O 11	P 2	0
129	FT	1	Total 28	C 10	N 5	O 11	P 2	0
129	FV	1	Total 28	C 10	N 5	O 11	P 2	0
129	FX	1	Total 28	C 10	N 5	O 11	P 2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
129	Fc	1	Total 28	C 10	N 5	O 11	P 2	0
129	Fe	1	Total 28	C 10	N 5	O 11	P 2	0
129	Fg	1	Total 28	C 10	N 5	O 11	P 2	0
129	Fi	1	Total 28	C 10	N 5	O 11	P 2	0
129	Fk	1	Total 28	C 10	N 5	O 11	P 2	0
129	Fp	1	Total 28	C 10	N 5	O 11	P 2	0
129	Fr	1	Total 28	C 10	N 5	O 11	P 2	0
129	Ft	1	Total 28	C 10	N 5	O 11	P 2	0
129	Fv	1	Total 28	C 10	N 5	O 11	P 2	0
129	Fx	1	Total 28	C 10	N 5	O 11	P 2	0
129	G0	1	Total 28	C 10	N 5	O 11	P 2	0
129	G2	1	Total 28	C 10	N 5	O 11	P 2	0
129	G4	1	Total 28	C 10	N 5	O 11	P 2	0
129	G6	1	Total 28	C 10	N 5	O 11	P 2	0
129	G8	1	Total 28	C 10	N 5	O 11	P 2	0
129	GB	1	Total 28	C 10	N 5	O 11	P 2	0
129	GD	1	Total 28	C 10	N 5	O 11	P 2	0
129	GF	1	Total 28	C 10	N 5	O 11	P 2	0
129	GH	1	Total 28	C 10	N 5	O 11	P 2	0
129	GJ	1	Total 28	C 10	N 5	O 11	P 2	0
129	H2	1	Total 28	C 10	N 5	O 11	P 2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
129	H4	1	28	10	5	11	2	0
129	H6	1	28	10	5	11	2	0
129	H8	1	28	10	5	11	2	0
129	I0	1	28	10	5	11	2	0
129	I2	1	28	10	5	11	2	0
129	I4	1	28	10	5	11	2	0
129	I8	1	28	10	5	11	2	0
129	IK	1	28	10	5	11	2	0
129	IM	1	28	10	5	11	2	0
129	IW	1	28	10	5	11	2	0
129	IY	1	28	10	5	11	2	0
129	Ij	1	28	10	5	11	2	0
129	Il	1	28	10	5	11	2	0
129	Iw	1	28	10	5	11	2	0
129	Iy	1	28	10	5	11	2	0
129	J0	1	28	10	5	11	2	0
129	J2	1	28	10	5	11	2	0
129	J4	1	28	10	5	11	2	0
129	J6	1	28	10	5	11	2	0
129	J8	1	28	10	5	11	2	0
129	JJ	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
129	JL	1	28	10	5	11	2	0
129	JU	1	28	10	5	11	2	0
129	JW	1	28	10	5	11	2	0
129	JY	1	28	10	5	11	2	0
129	Jh	1	28	10	5	11	2	0
129	Jj	1	28	10	5	11	2	0
129	Jl	1	28	10	5	11	2	0
129	Ju	1	28	10	5	11	2	0
129	Jw	1	28	10	5	11	2	0
129	Jy	1	28	10	5	11	2	0
129	K0	1	28	10	5	11	2	0
129	K4	1	28	10	5	11	2	0
129	K6	1	28	10	5	11	2	0
129	K8	1	28	10	5	11	2	0
129	KH	1	28	10	5	11	2	0
129	KJ	1	28	10	5	11	2	0
129	KL	1	28	10	5	11	2	0
129	KU	1	28	10	5	11	2	0
129	KW	1	28	10	5	11	2	0
129	KY	1	28	10	5	11	2	0
129	Kh	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
129	Kj	1	28	10	5	11	2	0
129	Kl	1	28	10	5	11	2	0
129	Kv	1	28	10	5	11	2	0
129	Kx	1	28	10	5	11	2	0
129	L0	1	28	10	5	11	2	0
129	L2	1	28	10	5	11	2	0
129	L4	1	28	10	5	11	2	0
129	L6	1	28	10	5	11	2	0
129	LH	1	28	10	5	11	2	0
129	LJ	1	28	10	5	11	2	0
129	LT	1	28	10	5	11	2	0
129	LV	1	28	10	5	11	2	0
129	LX	1	28	10	5	11	2	0
129	Lh	1	28	10	5	11	2	0
129	Lj	1	28	10	5	11	2	0
129	Lu	1	28	10	5	11	2	0
129	Lw	1	28	10	5	11	2	0
129	M0	1	28	10	5	11	2	0
129	M2	1	28	10	5	11	2	0
129	M4	1	28	10	5	11	2	0
129	M6	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
129	M8	1	28	10	5	11	2	0
129	MG	1	28	10	5	11	2	0
129	MI	1	28	10	5	11	2	0
129	MT	1	28	10	5	11	2	0
129	MV	1	28	10	5	11	2	0
129	Mg	1	28	10	5	11	2	0
129	Mi	1	28	10	5	11	2	0
129	Mt	1	28	10	5	11	2	0
129	Mv	1	28	10	5	11	2	0
129	N0	1	28	10	5	11	2	0
129	N2	1	28	10	5	11	2	0
129	N6	1	28	10	5	11	2	0
129	N8	1	28	10	5	11	2	0
129	NF	1	28	10	5	11	2	0
129	NH	1	28	10	5	11	2	0
129	NJ	1	28	10	5	11	2	0
129	NS	1	28	10	5	11	2	0
129	NU	1	28	10	5	11	2	0
129	NW	1	28	10	5	11	2	0
129	Nf	1	28	10	5	11	2	0
129	Nh	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
129	Nj	1	28	10	5	11	2	0
129	O0	1	28	10	5	11	2	0
129	O2	1	28	10	5	11	2	0
129	O4	1	28	10	5	11	2	0
129	O6	1	28	10	5	11	2	0
129	O8	1	28	10	5	11	2	0
129	P4	1	28	10	5	11	2	0
129	P6	1	28	10	5	11	2	0
129	P8	1	28	10	5	11	2	0
129	Q0	1	28	10	5	11	2	0
129	Q2	1	28	10	5	11	2	0
129	Q4	1	28	10	5	11	2	0
129	Q6	1	28	10	5	11	2	0
129	Q8	1	28	10	5	11	2	0
129	R0	1	28	10	5	11	2	0
129	R2	1	28	10	5	11	2	0
129	R4	1	28	10	5	11	2	0
129	R6	1	28	10	5	11	2	0
129	R8	1	28	10	5	11	2	0
129	S0	1	28	10	5	11	2	0
129	S2	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
129	S4	1	28	10	5	11	2	0
129	S6	1	28	10	5	11	2	0
129	S8	1	28	10	5	11	2	0
129	T0	1	28	10	5	11	2	0
129	T2	1	28	10	5	11	2	0
129	T4	1	28	10	5	11	2	0
129	T6	1	28	10	5	11	2	0
129	T8	1	28	10	5	11	2	0
129	U2	1	28	10	5	11	2	0
129	U4	1	28	10	5	11	2	0
129	U6	1	28	10	5	11	2	0
129	U8	1	28	10	5	11	2	0
129	V0	1	28	10	5	11	2	0
129	V2	1	28	10	5	11	2	0
129	V4	1	28	10	5	11	2	0
129	V6	1	28	10	5	11	2	0
129	V8	1	28	10	5	11	2	0
129	W0	1	28	10	5	11	2	0
129	W2	1	28	10	5	11	2	0
129	W4	1	28	10	5	11	2	0
129	W6	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
129	W8	1	28	10	5	11	2	0
129	X0	1	28	10	5	11	2	0
129	X2	1	28	10	5	11	2	0
129	X4	1	28	10	5	11	2	0
129	X6	1	28	10	5	11	2	0
129	X8	1	28	10	5	11	2	0
129	Y0	1	28	10	5	11	2	0
129	Y2	1	28	10	5	11	2	0
129	Y4	1	28	10	5	11	2	0
129	Y6	1	28	10	5	11	2	0
129	Y8	1	28	10	5	11	2	0
129	Z0	1	28	10	5	11	2	0
129	Z2	1	28	10	5	11	2	0
129	Z4	1	28	10	5	11	2	0
129	Z6	1	28	10	5	11	2	0
129	Z8	1	28	10	5	11	2	0

- Molecule 130 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
130	0B	1	1	1	0
130	0F	1	1	1	0
130	0I	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
130	0J	1	1	1	0
130	0L	1	1	1	0
130	0N	1	1	1	0
130	0Q	1	1	1	0
130	0R	1	1	1	0
130	0V	1	1	1	0
130	0X	1	1	1	0
130	0Z	1	1	1	0
130	1B	1	1	1	0
130	1D	1	1	1	0
130	1F	1	1	1	0
130	1H	2	2	2	0
130	1L	1	1	1	0
130	1N	1	1	1	0
130	1P	1	1	1	0
130	1R	1	1	1	0
130	1T	1	1	1	0
130	1V	1	1	1	0
130	1X	1	1	1	0
130	1Z	1	1	1	0
130	2B	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
130	2D	1	1	1	0
130	2F	1	1	1	0
130	2H	1	1	1	0
130	2J	1	1	1	0
130	2L	1	1	1	0
130	2N	1	1	1	0
130	2P	1	1	1	0
130	2R	1	1	1	0
130	2T	1	1	1	0
130	2V	1	1	1	0
130	2X	1	1	1	0
130	2Z	1	1	1	0
130	3B	1	1	1	0
130	3D	1	1	1	0
130	3F	1	1	1	0
130	3H	1	1	1	0
130	3J	1	1	1	0
130	3L	1	1	1	0
130	3N	1	1	1	0
130	3P	1	1	1	0
130	3R	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
130	3T	1	1	1	0
130	8F	1	1	1	0
130	8I	1	1	1	0
130	8K	1	1	1	0
130	8M	1	1	1	0
130	A0	1	1	1	0
130	A2	1	1	1	0
130	A4	1	1	1	0
130	A8	1	1	1	0
130	AT	1	1	1	0
130	Ag	1	1	1	0
130	Ai	1	1	1	0
130	Ak	1	1	1	0
130	Am	1	1	1	0
130	Ao	1	1	1	0
130	At	1	1	1	0
130	Av	1	1	1	0
130	Ay	1	1	1	0
130	Az	1	1	1	0
130	B0	1	1	1	0
130	B2	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
130	B4	1	1	1	0
130	B7	1	1	1	0
130	B9	1	1	1	0
130	BA	1	1	1	0
130	BF	1	1	1	0
130	BH	1	1	1	0
130	BJ	1	1	1	0
130	BL	1	1	1	0
130	BN	1	1	1	0
130	BT	1	1	1	0
130	BV	1	1	1	0
130	BX	1	1	1	0
130	BZ	1	1	1	0
130	Bb	1	1	1	0
130	Bg	1	1	1	0
130	Bi	1	1	1	0
130	Bk	1	1	1	0
130	Bm	1	1	1	0
130	Bo	1	1	1	0
130	Bt	1	1	1	0
130	Bw	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
130	By	1	1	1	0
130	Bz	1	1	1	0
130	C1	1	1	1	0
130	C5	1	1	1	0
130	C7	1	1	1	0
130	C9	1	1	1	0
130	CA	1	1	1	0
130	CE	1	1	1	0
130	CF	1	1	1	0
130	CI	1	1	1	0
130	CJ	1	1	1	0
130	CM	1	1	1	0
130	CN	1	1	1	0
130	CS	1	1	1	0
130	CU	1	1	1	0
130	CW	1	1	1	0
130	CY	1	1	1	0
130	Cf	1	1	1	0
130	Ch	1	1	1	0
130	Cj	1	1	1	0
130	Cl	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
130	Cs	1	1	1	0
130	Cv	1	1	1	0
130	Cw	1	1	1	0
130	Cy	1	1	1	0
130	D1	1	1	1	0
130	D3	1	1	1	0
130	D5	1	1	1	0
130	D7	1	1	1	0
130	DD	1	1	1	0
130	DF	1	1	1	0
130	DH	1	1	1	0
130	DJ	1	1	1	0
130	DL	1	1	1	0
130	DN	1	1	1	0
130	DQ	1	1	1	0
130	DS	1	1	1	0
130	DU	1	1	1	0
130	DW	1	1	1	0
130	DY	1	1	1	0
130	Da	1	1	1	0
130	Dd	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
130	Df	1	1	1	0
130	Dh	1	1	1	0
130	Dj	1	1	1	0
130	Di	1	1	1	0
130	Dq	1	1	1	0
130	Ds	1	1	1	0
130	Du	1	1	1	0
130	Dw	1	1	1	0
130	Dy	1	1	1	0
130	E1	1	1	1	0
130	E3	1	1	1	0
130	E5	1	1	1	0
130	E7	1	1	1	0
130	E9	1	1	1	0
130	EC	1	1	1	0
130	EE	1	1	1	0
130	EG	1	1	1	0
130	EI	1	1	1	0
130	EK	1	1	1	0
130	EP	1	1	1	0
130	ER	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
130	ET	1	1	1	0
130	EV	1	1	1	0
130	EX	1	1	1	0
130	Ec	1	1	1	0
130	Ee	1	1	1	0
130	Eg	1	1	1	0
130	Ei	1	1	1	0
130	Ek	1	1	1	0
130	Ep	1	1	1	0
130	Er	1	1	1	0
130	Et	1	1	1	0
130	Ev	1	1	1	0
130	Ex	1	1	1	0
130	F1	1	1	1	0
130	F3	1	1	1	0
130	F5	1	1	1	0
130	F7	1	1	1	0
130	F9	1	1	1	0
130	FD	1	1	1	0
130	FF	1	1	1	0
130	FH	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
130	FJ	1	1	1	0
130	FL	1	1	1	0
130	FQ	1	1	1	0
130	FT	1	1	1	0
130	FU	1	1	1	0
130	FW	1	1	1	0
130	FY	1	1	1	0
130	Fd	1	1	1	0
130	Ff	1	1	1	0
130	Fh	1	1	1	0
130	Fj	1	1	1	0
130	Fl	1	1	1	0
130	Fq	1	1	1	0
130	Fs	1	1	1	0
130	Fu	1	1	1	0
130	Fw	1	1	1	0
130	G1	1	1	1	0
130	G3	1	1	1	0
130	G5	1	1	1	0
130	G7	1	1	1	0
130	G9	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
130	GC	1	1	1	0
130	GE	1	1	1	0
130	GG	1	1	1	0
130	GI	1	1	1	0
130	H1	1	1	1	0
130	H3	1	1	1	0
130	H5	1	1	1	0
130	H8	1	1	1	0
130	H9	1	1	1	0
130	Hu	1	1	1	0
130	I1	1	1	1	0
130	I4	1	1	1	0
130	I5	1	1	1	0
130	I7	1	1	1	0
130	I9	1	1	1	0
130	IL	1	1	1	0
130	IV	1	1	1	0
130	IX	1	1	1	0
130	IZ	1	1	1	0
130	li	1	1	1	0
130	lk	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
130	Im	1	1	1	0
130	Iv	1	1	1	0
130	Ix	1	1	1	0
130	Iz	1	1	1	0
130	J1	1	1	1	0
130	J3	1	1	1	0
130	J5	1	1	1	0
130	J8	1	1	1	0
130	J9	1	1	1	0
130	JI	1	1	1	0
130	JK	1	1	1	0
130	JU	1	1	1	0
130	JW	1	1	1	0
130	JX	1	1	1	0
130	Jh	1	1	1	0
130	Ji	1	1	1	0
130	Jl	1	1	1	0
130	Jv	1	1	1	0
130	Jx	1	1	1	0
130	K3	1	1	1	0
130	K5	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
130	K7	1	1	1	0
130	K9	1	1	1	0
130	KI	1	1	1	0
130	KK	1	1	1	0
130	KV	1	1	1	0
130	KX	1	1	1	0
130	Kj	1	1	1	0
130	Kk	1	1	1	0
130	Kv	1	1	1	0
130	Kw	1	1	1	0
130	Ky	1	1	1	0
130	L1	1	1	1	0
130	L3	1	1	1	0
130	L5	1	1	1	0
130	L7	1	1	1	0
130	L9	1	1	1	0
130	LI	1	1	1	0
130	LK	1	1	1	0
130	LU	1	1	1	0
130	LW	1	1	1	0
130	Li	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
130	Lv	1	1	1	0
130	Lx	1	1	1	0
130	M1	1	1	1	0
130	M3	1	1	1	0
130	M5	1	1	1	0
130	M7	1	1	1	0
130	M9	1	1	1	0
130	MF	1	1	1	0
130	MH	1	1	1	0
130	MS	1	1	1	0
130	MU	1	1	1	0
130	MW	1	1	1	0
130	Mf	1	1	1	0
130	Mh	1	1	1	0
130	Mj	1	1	1	0
130	Ms	1	1	1	0
130	Mu	1	1	1	0
130	Mw	1	1	1	0
130	N1	1	1	1	0
130	N3	1	1	1	0
130	N5	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
130	N7	1	1	1	0
130	N9	1	1	1	0
130	NG	1	1	1	0
130	NI	1	1	1	0
130	NT	1	1	1	0
130	NV	1	1	1	0
130	Ng	1	1	1	0
130	Ni	1	1	1	0
130	O1	1	1	1	0
130	O4	1	1	1	0
130	O5	1	1	1	0
130	O7	1	1	1	0
130	O9	1	1	1	0
130	P4	1	1	1	0
130	P6	1	1	1	0
130	P7	1	1	1	0
130	P9	1	1	1	0
130	Q1	1	1	1	0
130	Q3	1	1	1	0
130	Q5	1	1	1	0
130	Q9	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
130	R2	1	1	1	0
130	R3	1	1	1	0
130	R5	1	1	1	0
130	R8	1	1	1	0
130	R9	1	1	1	0
130	S1	1	1	1	0
130	S5	1	1	1	0
130	S7	1	1	1	0
130	S9	1	1	1	0
130	T1	1	1	1	0
130	T3	1	1	1	0
130	T5	1	1	1	0
130	T7	1	1	1	0
130	U1	1	1	1	0
130	U3	1	1	1	0
130	U5	1	1	1	0
130	U8	1	1	1	0
130	U9	1	1	1	0
130	V1	1	1	1	0
130	V3	1	1	1	0
130	V7	1	1	1	0

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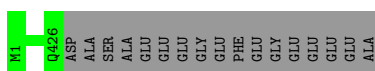
Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
130	V9	1	1	1	0
130	W1	1	1	1	0
130	W3	1	1	1	0
130	W5	1	1	1	0
130	W7	1	1	1	0
130	W9	1	1	1	0
130	X3	1	1	1	0
130	X5	1	1	1	0
130	X7	1	1	1	0
130	X9	1	1	1	0
130	Y1	1	1	1	0
130	Y3	1	1	1	0
130	Y5	1	1	1	0
130	Y9	1	1	1	0
130	Z1	1	1	1	0
130	Z3	1	1	1	0
130	Z5	1	1	1	0
130	Z7	1	1	1	0
130	Z9	1	1	1	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. 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. 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.

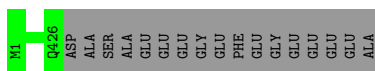
- Molecule 1: Tubulin beta

Chain 0A:  96%



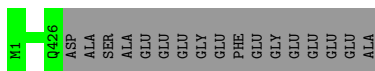
- Molecule 1: Tubulin beta

Chain 0C:  96%



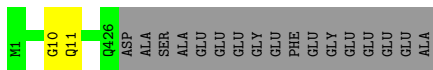
- Molecule 1: Tubulin beta

Chain 0E:  96%



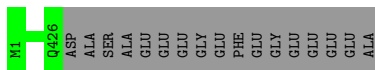
- Molecule 1: Tubulin beta

Chain 0G:  96%



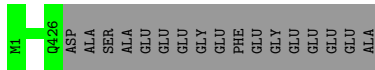
- Molecule 1: Tubulin beta

Chain 0I:  96%

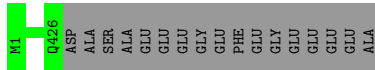


- Molecule 1: Tubulin beta

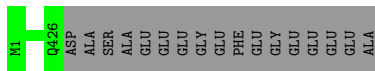
Chain 0K:  96%



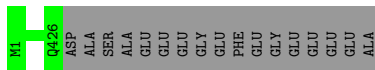
• Molecule 1: Tubulin beta



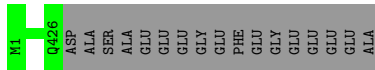
• Molecule 1: Tubulin beta



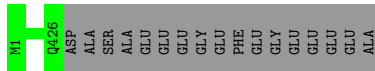
• Molecule 1: Tubulin beta



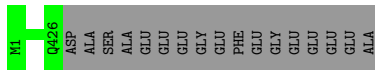
• Molecule 1: Tubulin beta



• Molecule 1: Tubulin beta

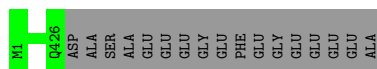


• Molecule 1: Tubulin beta

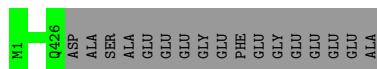


• Molecule 1: Tubulin beta

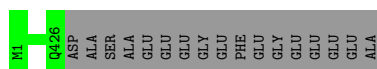




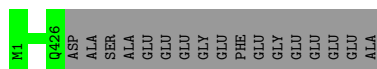
● Molecule 1: Tubulin beta



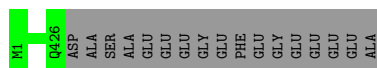
● Molecule 1: Tubulin beta



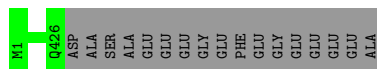
● Molecule 1: Tubulin beta



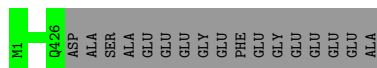
● Molecule 1: Tubulin beta



● Molecule 1: Tubulin beta

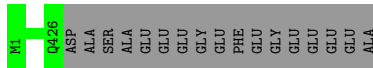


● Molecule 1: Tubulin beta



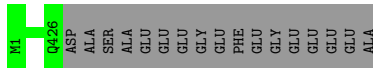
● Molecule 1: Tubulin beta





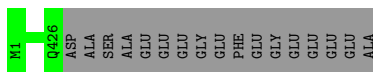
- Molecule 1: Tubulin beta

Chain 1Q: 96%



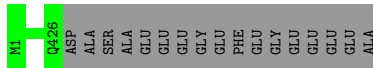
- Molecule 1: Tubulin beta

Chain 1S: 96%



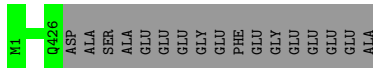
- Molecule 1: Tubulin beta

Chain 1U: 96%



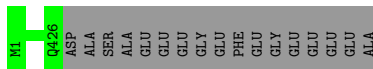
- Molecule 1: Tubulin beta

Chain 1W: 96%



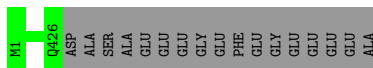
- Molecule 1: Tubulin beta

Chain 2A: 96%



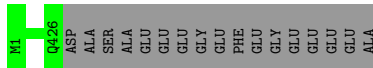
- Molecule 1: Tubulin beta

Chain 2C: 96%



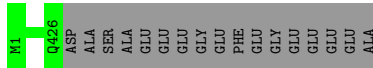
- Molecule 1: Tubulin beta

Chain 2E: 96%



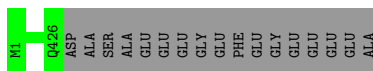
- Molecule 1: Tubulin beta

Chain 2G: 96%



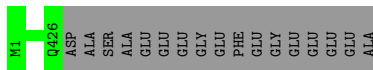
- Molecule 1: Tubulin beta

Chain 2I: 96%



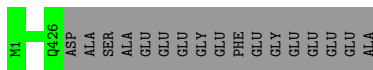
- Molecule 1: Tubulin beta

Chain 2K: 96%



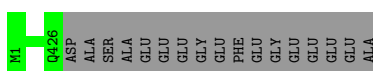
- Molecule 1: Tubulin beta

Chain 2M: 96%



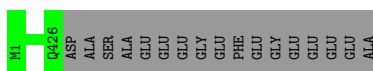
- Molecule 1: Tubulin beta

Chain 2Q: 96%



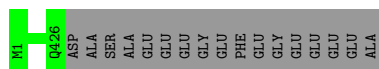
- Molecule 1: Tubulin beta

Chain 2S: 96%

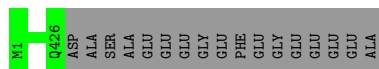


- Molecule 1: Tubulin beta

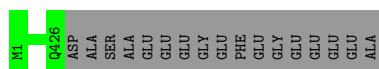
Chain 2U: 96%



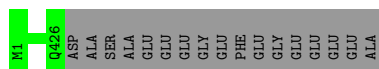
• Molecule 1: Tubulin beta



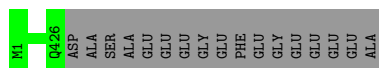
• Molecule 1: Tubulin beta



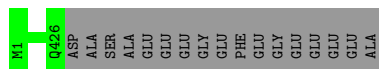
• Molecule 1: Tubulin beta



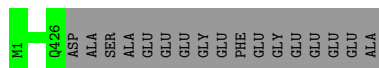
• Molecule 1: Tubulin beta



• Molecule 1: Tubulin beta

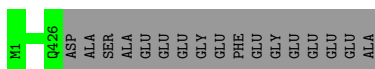


• Molecule 1: Tubulin beta



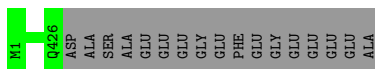
• Molecule 1: Tubulin beta





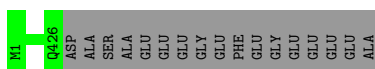
- Molecule 1: Tubulin beta

Chain 3M:  96%



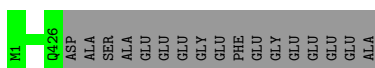
- Molecule 1: Tubulin beta

Chain 3O:  96%



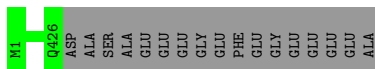
- Molecule 1: Tubulin beta

Chain 3Q:  96%



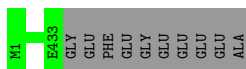
- Molecule 1: Tubulin beta

Chain 3S:  96%



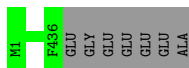
- Molecule 1: Tubulin beta

Chain 8H:  98%



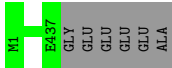
- Molecule 1: Tubulin beta

Chain 8J:  98%



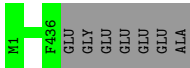
- Molecule 1: Tubulin beta

Chain 8L:  99%



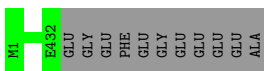
- Molecule 1: Tubulin beta

Chain 8N:  98%



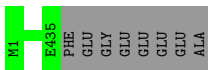
- Molecule 1: Tubulin beta

Chain A1:  98%



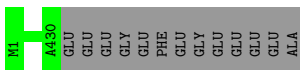
- Molecule 1: Tubulin beta

Chain A3:  98%



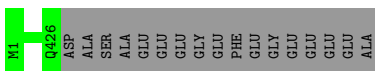
- Molecule 1: Tubulin beta

Chain A5:  97%



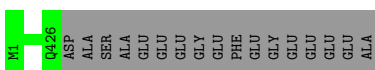
- Molecule 1: Tubulin beta

Chain A6:  96%



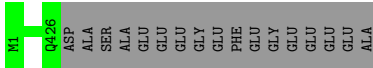
- Molecule 1: Tubulin beta

Chain A7:  96%



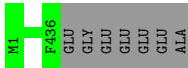
- Molecule 1: Tubulin beta

Chain A9:  96%



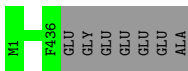
- Molecule 1: Tubulin beta

Chain AJ:  98%



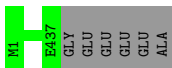
- Molecule 1: Tubulin beta

Chain Ah:  98%



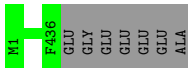
- Molecule 1: Tubulin beta

Chain Aj:  99%



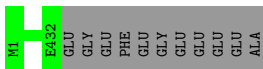
- Molecule 1: Tubulin beta

Chain Al:  98%



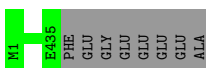
- Molecule 1: Tubulin beta

Chain An:  98%



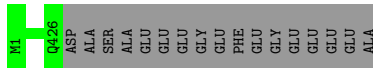
- Molecule 1: Tubulin beta

Chain Ap:  98%



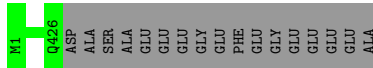
- Molecule 1: Tubulin beta

Chain Au:  96%



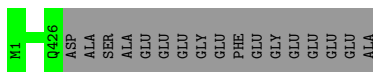
- Molecule 1: Tubulin beta

Chain Aw: 96%



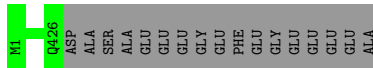
- Molecule 1: Tubulin beta

Chain Ay: 96%



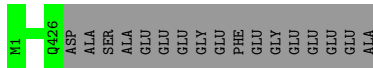
- Molecule 1: Tubulin beta

Chain B1: 96%



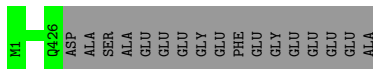
- Molecule 1: Tubulin beta

Chain B3: 96%



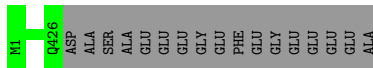
- Molecule 1: Tubulin beta

Chain B5: 96%



- Molecule 1: Tubulin beta

Chain B6: 96%



- Molecule 1: Tubulin beta

Chain B8: 96%

MI Q426
ASP ALA SER ALA GLU GLU GLY GLY PHE GLU GLY GLU GLU GLU ALA

● Molecule 1: Tubulin beta



MI Q426
ASP ALA SER ALA GLU GLU GLY GLY PHE GLU GLY GLU GLU GLU ALA

● Molecule 1: Tubulin beta



MI Q426
ASP ALA SER ALA GLU GLU GLY GLY PHE GLU GLY GLU GLU GLU ALA

● Molecule 1: Tubulin beta



MI Q426
ASP ALA SER ALA GLU GLU GLY GLY PHE GLU GLY GLU GLU GLU ALA

● Molecule 1: Tubulin beta



MI Q426
ASP ALA SER ALA GLU GLU GLY GLY PHE GLU GLY GLU GLU GLU ALA

● Molecule 1: Tubulin beta



MI Q426
ASP ALA SER ALA GLU GLU GLY GLY PHE GLU GLY GLU GLU GLU ALA

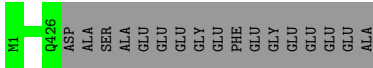
● Molecule 1: Tubulin beta



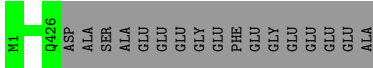
MI Q426
ASP ALA SER ALA GLU GLU GLY GLY PHE GLU GLY GLU GLU GLU ALA

● Molecule 1: Tubulin beta

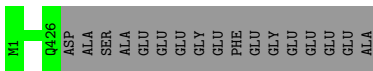




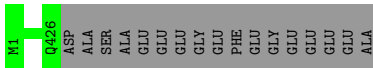
● Molecule 1: Tubulin beta



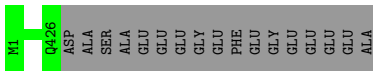
● Molecule 1: Tubulin beta



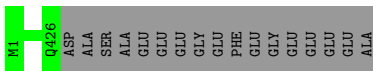
● Molecule 1: Tubulin beta



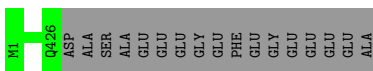
● Molecule 1: Tubulin beta



● Molecule 1: Tubulin beta

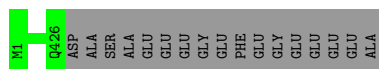


● Molecule 1: Tubulin beta

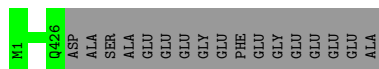


● Molecule 1: Tubulin beta

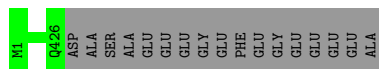




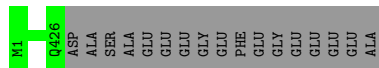
• Molecule 1: Tubulin beta



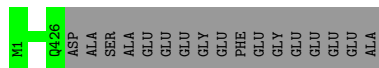
• Molecule 1: Tubulin beta



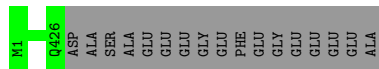
• Molecule 1: Tubulin beta



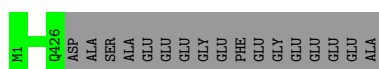
• Molecule 1: Tubulin beta



• Molecule 1: Tubulin beta

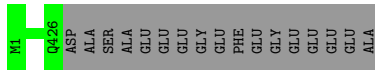


• Molecule 1: Tubulin beta

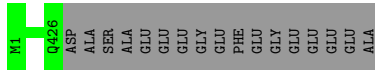


• Molecule 1: Tubulin beta

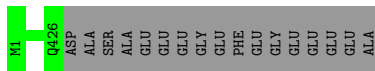




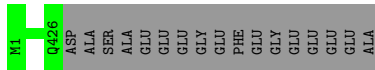
● Molecule 1: Tubulin beta



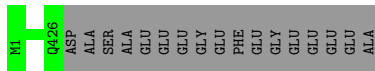
● Molecule 1: Tubulin beta



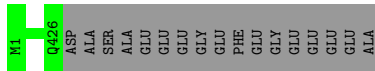
● Molecule 1: Tubulin beta



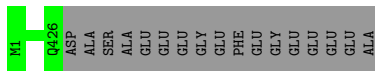
● Molecule 1: Tubulin beta



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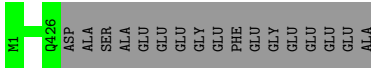


● Molecule 1: Tubulin beta



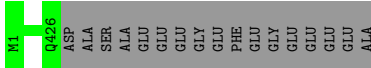
● Molecule 1: Tubulin beta





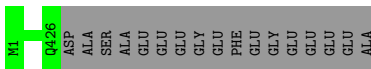
- Molecule 1: Tubulin beta

Chain CK:  96%



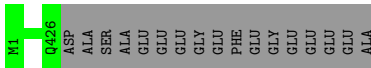
- Molecule 1: Tubulin beta

Chain CM:  96%



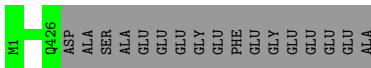
- Molecule 1: Tubulin beta

Chain CR:  96%



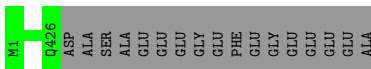
- Molecule 1: Tubulin beta

Chain CT:  96%



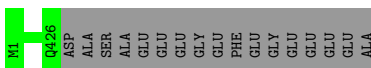
- Molecule 1: Tubulin beta

Chain CV:  96%



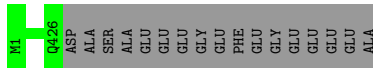
- Molecule 1: Tubulin beta

Chain CX:  96%



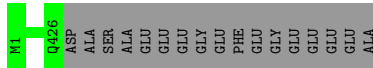
- Molecule 1: Tubulin beta

Chain CZ:  96%



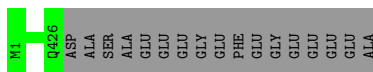
- Molecule 1: Tubulin beta

Chain Ce: 96%



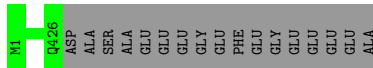
- Molecule 1: Tubulin beta

Chain Cg: 96%



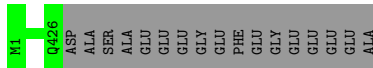
- Molecule 1: Tubulin beta

Chain Ci: 96%



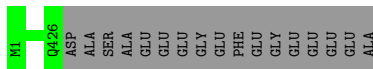
- Molecule 1: Tubulin beta

Chain Ck: 96%



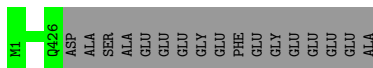
- Molecule 1: Tubulin beta

Chain Cm: 96%



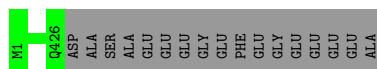
- Molecule 1: Tubulin beta

Chain Cr: 96%

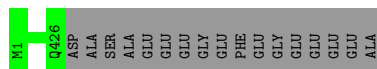


- Molecule 1: Tubulin beta

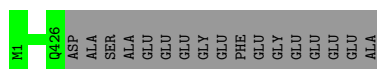
Chain Ct: 96%



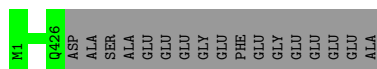
● Molecule 1: Tubulin beta



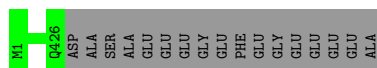
● Molecule 1: Tubulin beta



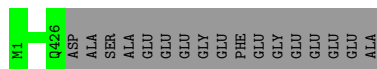
● Molecule 1: Tubulin beta



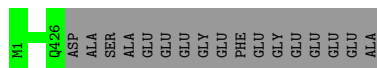
● Molecule 1: Tubulin beta



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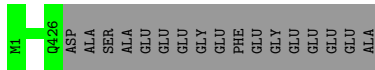


● Molecule 1: Tubulin beta

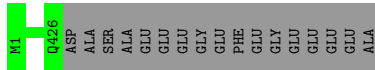


● Molecule 1: Tubulin beta

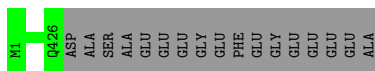




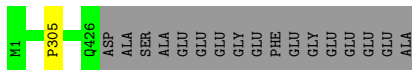
● Molecule 1: Tubulin beta



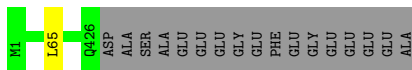
● Molecule 1: Tubulin beta



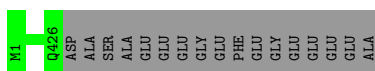
● Molecule 1: Tubulin beta



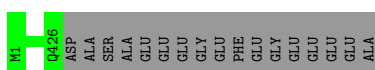
● Molecule 1: Tubulin beta



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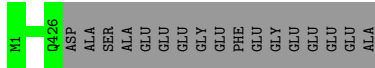


● Molecule 1: Tubulin beta

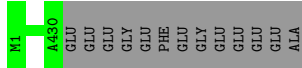


● Molecule 1: Tubulin beta

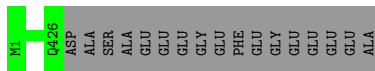




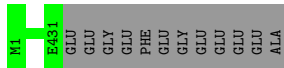
● Molecule 1: Tubulin beta



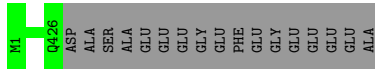
● Molecule 1: Tubulin beta



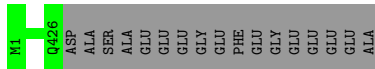
● Molecule 1: Tubulin beta



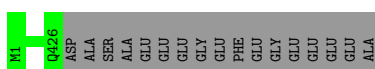
● Molecule 1: Tubulin beta



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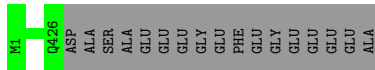


● Molecule 1: Tubulin beta

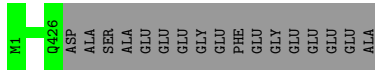


● Molecule 1: Tubulin beta

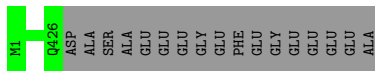




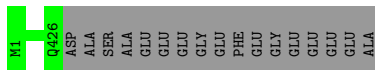
• Molecule 1: Tubulin beta



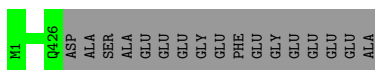
• Molecule 1: Tubulin beta



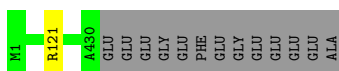
• Molecule 1: Tubulin beta



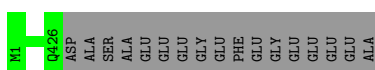
• Molecule 1: Tubulin beta



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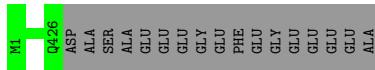


• Molecule 1: Tubulin beta

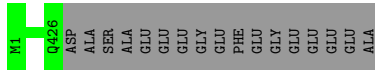


• Molecule 1: Tubulin beta

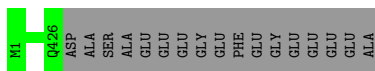




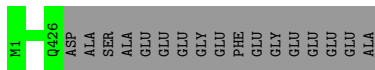
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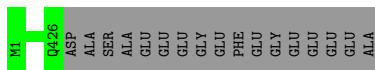
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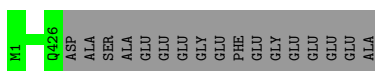
● Molecule 1: Tubulin beta



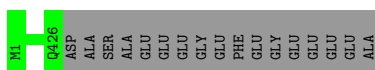
● Molecule 1: Tubulin beta



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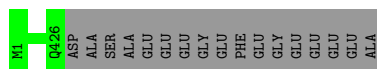


● Molecule 1: Tubulin beta

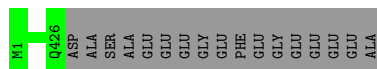


● Molecule 1: Tubulin beta

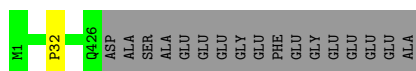




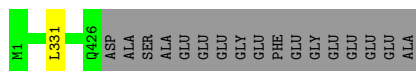
• Molecule 1: Tubulin beta



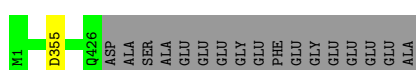
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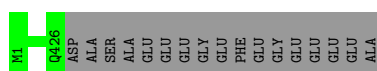
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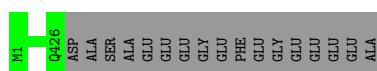
• Molecule 1: Tubulin beta



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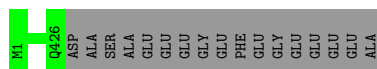


• Molecule 1: Tubulin beta

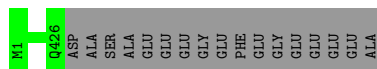


• Molecule 1: Tubulin beta

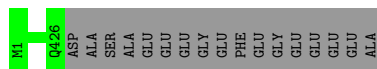




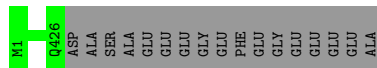
● Molecule 1: Tubulin beta



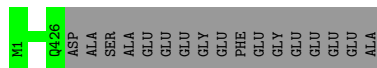
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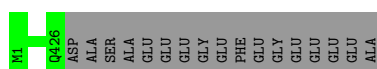
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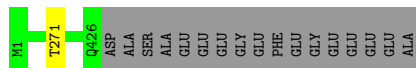
● Molecule 1: Tubulin beta



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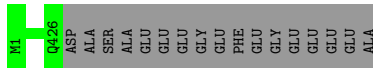


● Molecule 1: Tubulin beta



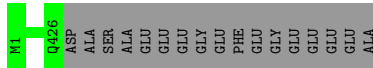
● Molecule 1: Tubulin beta





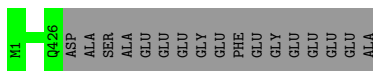
- Molecule 1: Tubulin beta

Chain Es: 96%



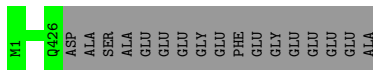
- Molecule 1: Tubulin beta

Chain Eu: 96%



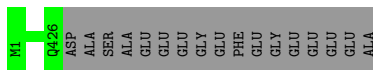
- Molecule 1: Tubulin beta

Chain Ew: 96%



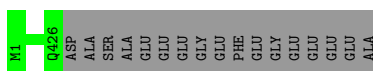
- Molecule 1: Tubulin beta

Chain F0: 96%



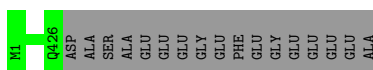
- Molecule 1: Tubulin beta

Chain F2: 96%



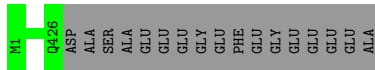
- Molecule 1: Tubulin beta

Chain F6: 96%

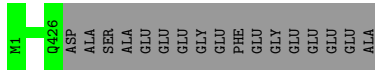


- Molecule 1: Tubulin beta

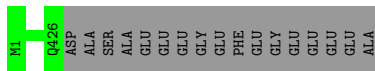
Chain F8: 96%



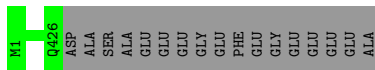
● Molecule 1: Tubulin beta



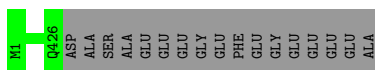
● Molecule 1: Tubulin beta



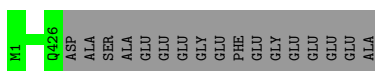
● Molecule 1: Tubulin beta



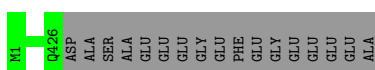
● Molecule 1: Tubulin beta



● Molecule 1: Tubulin beta

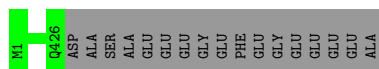


● Molecule 1: Tubulin beta

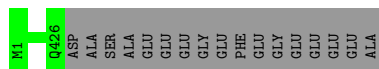


● Molecule 1: Tubulin beta

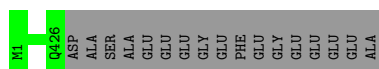




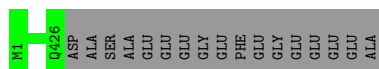
• Molecule 1: Tubulin beta



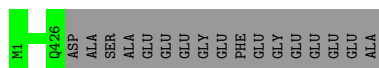
• Molecule 1: Tubulin beta



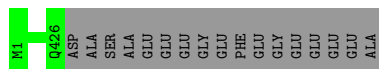
• Molecule 1: Tubulin beta



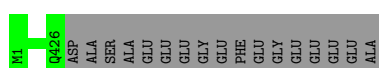
• Molecule 1: Tubulin beta



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MI Q426
ASP ALA SER ALA GLU GLU GLY GLY PHE GLU GLY GLU GLU GLU ALA

● Molecule 1: Tubulin beta



MI Q426
ASP ALA SER ALA GLU GLU GLY GLY PHE GLU GLY GLU GLU GLU ALA

● Molecule 1: Tubulin beta



MI Q426
ASP ALA SER ALA GLU GLU GLY GLY PHE GLU GLY GLU GLU GLU ALA

● Molecule 1: Tubulin beta



MI Q426
ASP ALA SER ALA GLU GLU GLY GLY PHE GLU GLY GLU GLU GLU ALA

● Molecule 1: Tubulin beta



MI Q426
ASP ALA SER ALA GLU GLU GLY GLY PHE GLU GLY GLU GLU GLU ALA

● Molecule 1: Tubulin beta



MI Q426
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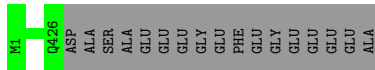
● Molecule 1: Tubulin beta



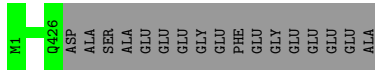
MI Q426
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● Molecule 1: Tubulin beta

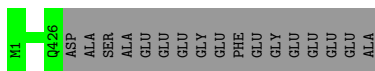




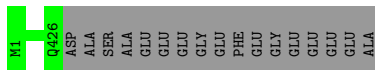
● Molecule 1: Tubulin beta



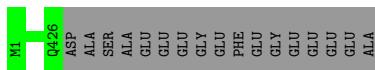
● Molecule 1: Tubulin beta



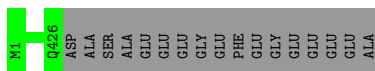
● Molecule 1: Tubulin beta



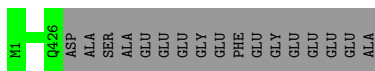
● Molecule 1: Tubulin beta



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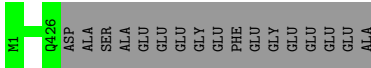


● Molecule 1: Tubulin beta



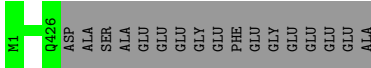
● Molecule 1: Tubulin beta





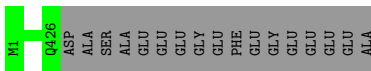
- Molecule 1: Tubulin beta

Chain GH:  96%



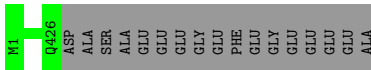
- Molecule 1: Tubulin beta

Chain GJ:  96%



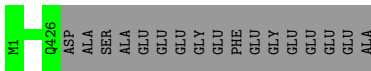
- Molecule 1: Tubulin beta

Chain H2:  96%



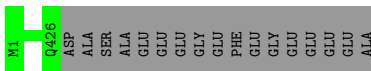
- Molecule 1: Tubulin beta

Chain H4:  96%



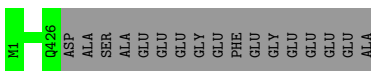
- Molecule 1: Tubulin beta

Chain H6:  96%



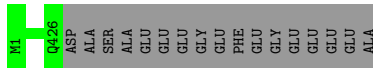
- Molecule 1: Tubulin beta

Chain H8:  96%



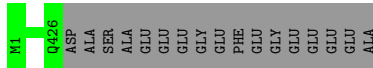
- Molecule 1: Tubulin beta

Chain I0:  96%



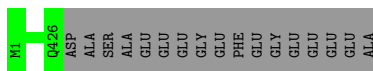
- Molecule 1: Tubulin beta

Chain I2:  96%



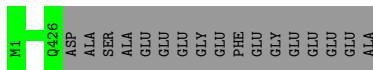
- Molecule 1: Tubulin beta

Chain I4:  96%



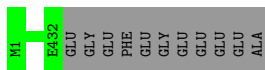
- Molecule 1: Tubulin beta

Chain I8:  96%



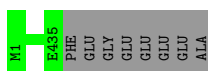
- Molecule 1: Tubulin beta

Chain IK:  98%



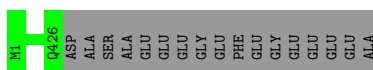
- Molecule 1: Tubulin beta

Chain IM:  98%



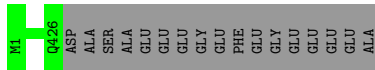
- Molecule 1: Tubulin beta

Chain IW:  96%

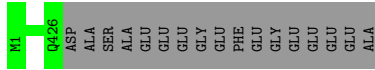


- Molecule 1: Tubulin beta

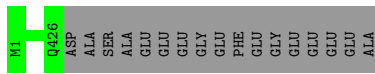
Chain IY:  96%



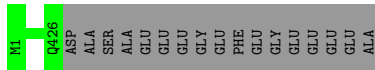
• Molecule 1: Tubulin beta



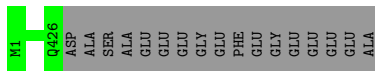
• Molecule 1: Tubulin beta



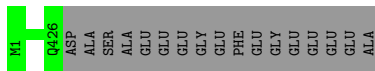
• Molecule 1: Tubulin beta



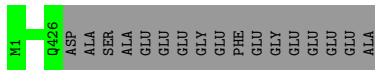
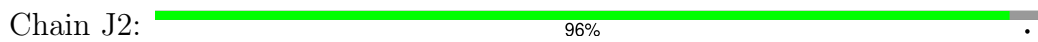
• Molecule 1: Tubulin beta



• Molecule 1: Tubulin beta

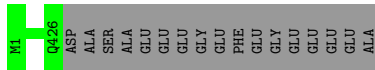


• Molecule 1: Tubulin beta

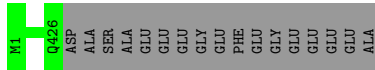


• Molecule 1: Tubulin beta

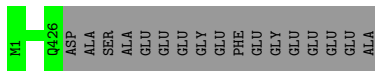




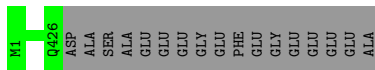
• Molecule 1: Tubulin beta



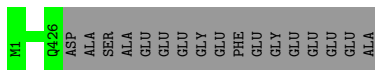
• Molecule 1: Tubulin beta



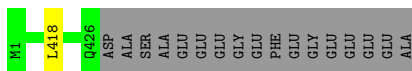
• Molecule 1: Tubulin beta



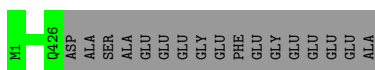
• Molecule 1: Tubulin beta



• Molecule 1: Tubulin beta

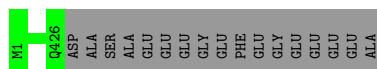


• Molecule 1: Tubulin beta

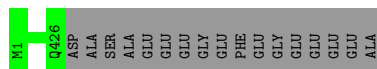


• Molecule 1: Tubulin beta

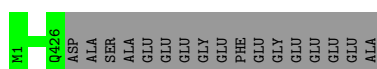




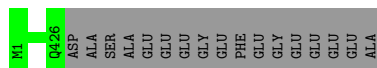
• Molecule 1: Tubulin beta



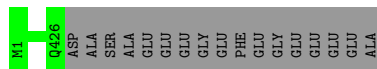
• Molecule 1: Tubulin beta



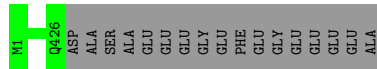
• Molecule 1: Tubulin beta



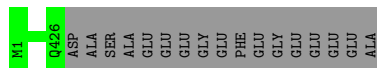
• Molecule 1: Tubulin beta



• Molecule 1: Tubulin beta

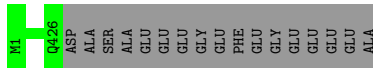


• Molecule 1: Tubulin beta



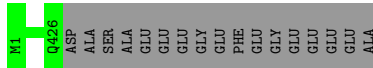
• Molecule 1: Tubulin beta





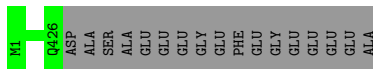
- Molecule 1: Tubulin beta

Chain K4:  96%



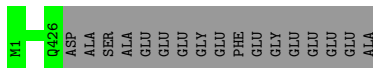
- Molecule 1: Tubulin beta

Chain K6:  96%



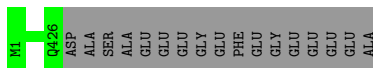
- Molecule 1: Tubulin beta

Chain K8:  96%



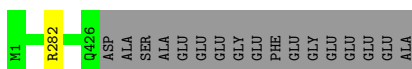
- Molecule 1: Tubulin beta

Chain KH:  96%



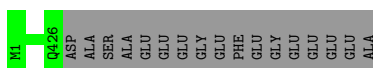
- Molecule 1: Tubulin beta

Chain KJ:  96%



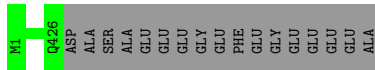
- Molecule 1: Tubulin beta

Chain KL:  96%



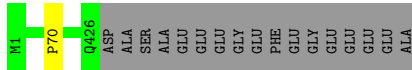
- Molecule 1: Tubulin beta

Chain KU:  96%



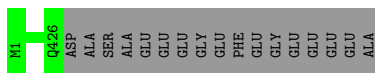
● Molecule 1: Tubulin beta

Chain KW: 96%



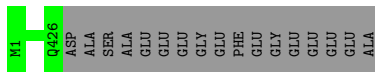
● Molecule 1: Tubulin beta

Chain KY: 96%



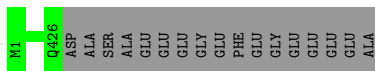
● Molecule 1: Tubulin beta

Chain Kh: 96%



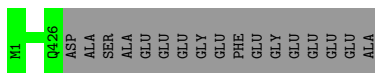
● Molecule 1: Tubulin beta

Chain Kj: 96%



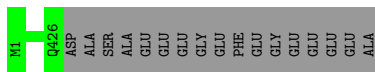
● Molecule 1: Tubulin beta

Chain Kl: 96%



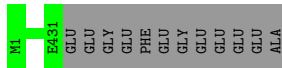
● Molecule 1: Tubulin beta

Chain Kv: 96%



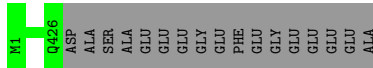
● Molecule 1: Tubulin beta

Chain Kx: 97%



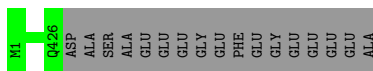
- Molecule 1: Tubulin beta

Chain L0:  96%



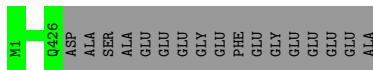
- Molecule 1: Tubulin beta

Chain L2:  96%



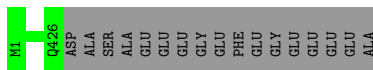
- Molecule 1: Tubulin beta

Chain L4:  96%



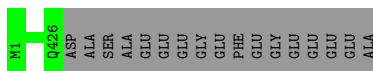
- Molecule 1: Tubulin beta

Chain L6:  96%



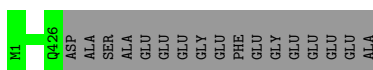
- Molecule 1: Tubulin beta

Chain LH:  96%



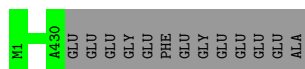
- Molecule 1: Tubulin beta

Chain LJ:  96%

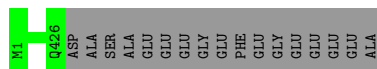


- Molecule 1: Tubulin beta

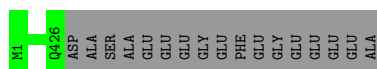
Chain LT:  97%



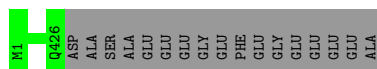
● Molecule 1: Tubulin beta



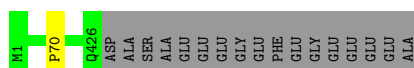
● Molecule 1: Tubulin beta



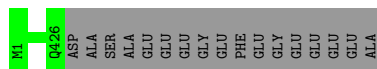
● Molecule 1: Tubulin beta



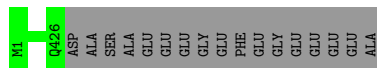
● Molecule 1: Tubulin beta



● Molecule 1: Tubulin beta

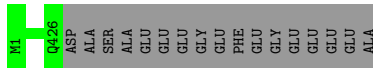


● Molecule 1: Tubulin beta



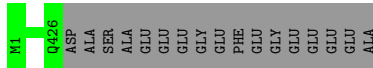
● Molecule 1: Tubulin beta





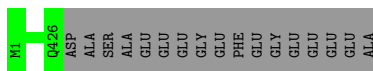
- Molecule 1: Tubulin beta

Chain M2: 96%



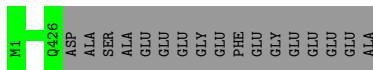
- Molecule 1: Tubulin beta

Chain M4: 96%



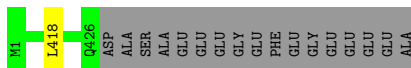
- Molecule 1: Tubulin beta

Chain M6: 96%



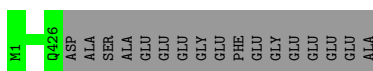
- Molecule 1: Tubulin beta

Chain M8: 96%



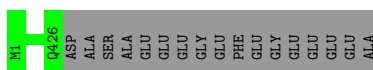
- Molecule 1: Tubulin beta

Chain MG: 96%



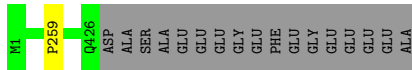
- Molecule 1: Tubulin beta

Chain MI: 96%

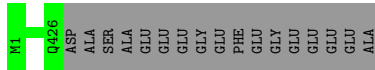


- Molecule 1: Tubulin beta

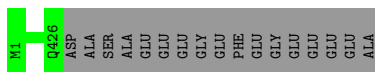
Chain MT: 96%



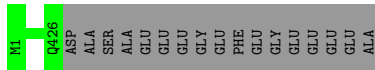
• Molecule 1: Tubulin beta



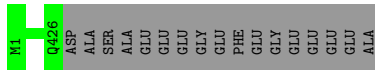
• Molecule 1: Tubulin beta



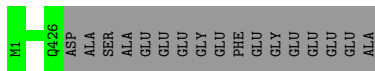
• Molecule 1: Tubulin beta



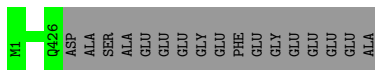
• Molecule 1: Tubulin beta



• Molecule 1: Tubulin beta

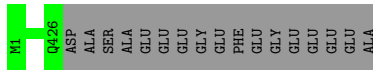


• Molecule 1: Tubulin beta



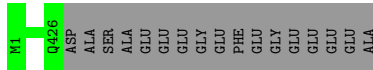
• Molecule 1: Tubulin beta





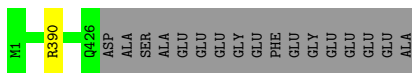
- Molecule 1: Tubulin beta

Chain N6: 96%



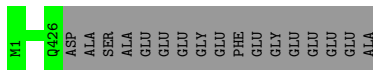
- Molecule 1: Tubulin beta

Chain N8: 96%



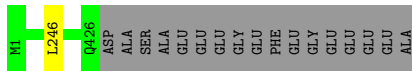
- Molecule 1: Tubulin beta

Chain NF: 96%



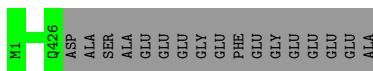
- Molecule 1: Tubulin beta

Chain NH: 96%



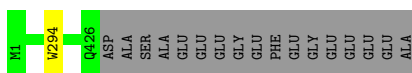
- Molecule 1: Tubulin beta

Chain NJ: 96%



- Molecule 1: Tubulin beta

Chain NS: 96%



- Molecule 1: Tubulin beta

Chain NU: 96%

HI Q426
ASP ALA SER ALA GLU GLU GLY GLY PHE GLU GLY GLU GLU GLU ALA

● Molecule 1: Tubulin beta



HI Q426
ASP ALA SER ALA GLU GLU GLY GLY PHE GLU GLY GLU GLU GLU ALA

● Molecule 1: Tubulin beta



HI Q426
ASP ALA SER ALA GLU GLU GLY GLY PHE GLU GLY GLU GLU GLU ALA

● Molecule 1: Tubulin beta



HI Q426
ASP ALA SER ALA GLU GLU GLY GLY PHE GLU GLY GLU GLU GLU ALA

● Molecule 1: Tubulin beta



HI Q426
ASP ALA SER ALA GLU GLU GLY GLY PHE GLU GLY GLU GLU GLU ALA

● Molecule 1: Tubulin beta



HI Q426
ASP ALA SER ALA GLU GLU GLY GLY PHE GLU GLY GLU GLU GLU ALA

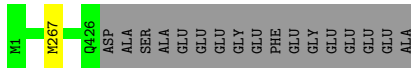
● Molecule 1: Tubulin beta



HI Q426
ASP ALA SER ALA GLU GLU GLY GLY PHE GLU GLY GLU GLU GLU ALA

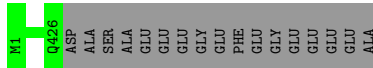
● Molecule 1: Tubulin beta





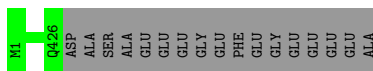
- Molecule 1: Tubulin beta

Chain O6: 96%



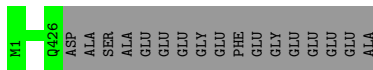
- Molecule 1: Tubulin beta

Chain O8: 96%



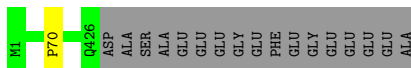
- Molecule 1: Tubulin beta

Chain P4: 96%



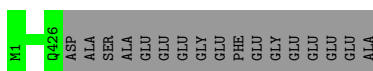
- Molecule 1: Tubulin beta

Chain P6: 96%



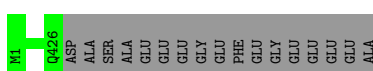
- Molecule 1: Tubulin beta

Chain P8: 96%



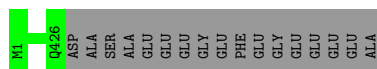
- Molecule 1: Tubulin beta

Chain Q0: 96%

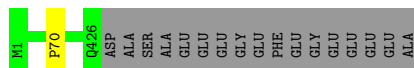


- Molecule 1: Tubulin beta

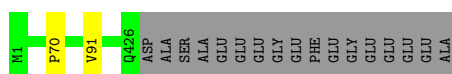
Chain Q2: 96%



● Molecule 1: Tubulin beta



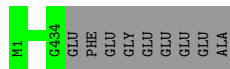
● Molecule 1: Tubulin beta



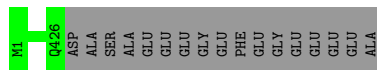
● Molecule 1: Tubulin beta



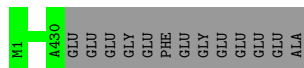
● Molecule 1: Tubulin beta



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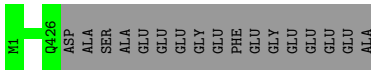


● Molecule 1: Tubulin beta



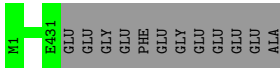
● Molecule 1: Tubulin beta





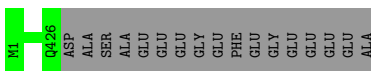
- Molecule 1: Tubulin beta

Chain R8:  97%



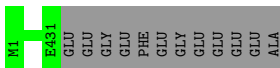
- Molecule 1: Tubulin beta

Chain S0:  96%



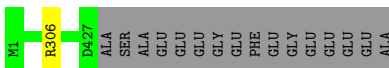
- Molecule 1: Tubulin beta

Chain S2:  97%



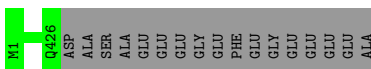
- Molecule 1: Tubulin beta

Chain S4:  96%



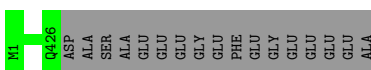
- Molecule 1: Tubulin beta

Chain S6:  96%



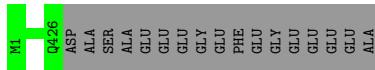
- Molecule 1: Tubulin beta

Chain S8:  96%

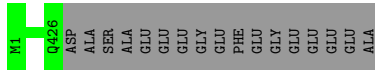


- Molecule 1: Tubulin beta

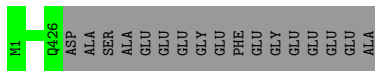
Chain T0:  96%



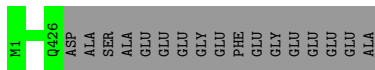
● Molecule 1: Tubulin beta



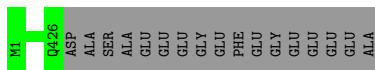
● Molecule 1: Tubulin beta



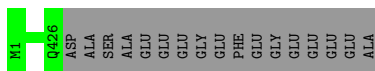
● Molecule 1: Tubulin beta



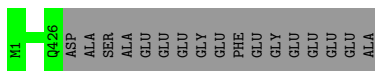
● Molecule 1: Tubulin beta



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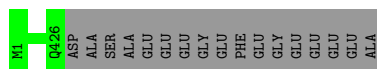


● Molecule 1: Tubulin beta

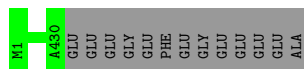


● Molecule 1: Tubulin beta

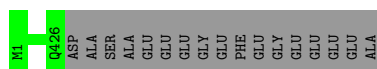




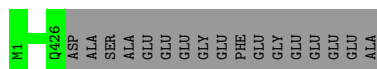
• Molecule 1: Tubulin beta



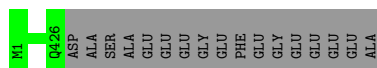
• Molecule 1: Tubulin beta



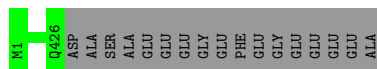
• Molecule 1: Tubulin beta



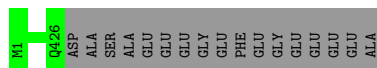
• Molecule 1: Tubulin beta



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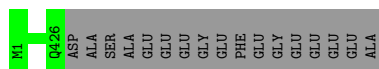


• Molecule 1: Tubulin beta

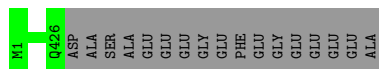


• Molecule 1: Tubulin beta

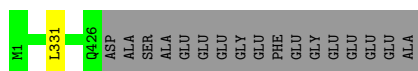




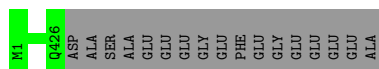
• Molecule 1: Tubulin beta



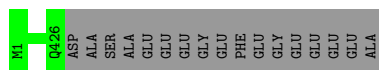
• Molecule 1: Tubulin beta



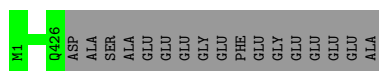
• Molecule 1: Tubulin beta



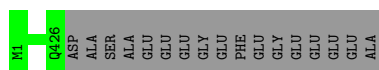
• Molecule 1: Tubulin beta



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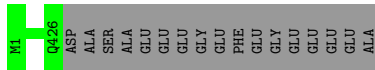


• Molecule 1: Tubulin beta

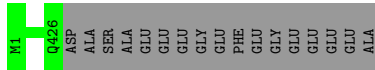


• Molecule 1: Tubulin beta

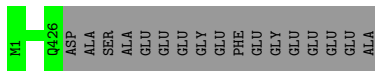




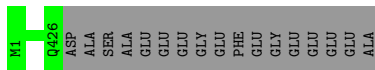
● Molecule 1: Tubulin beta



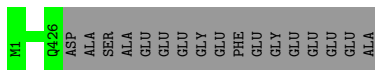
● Molecule 1: Tubulin beta



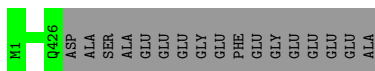
● Molecule 1: Tubulin beta



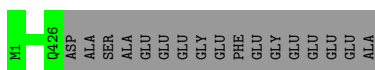
● Molecule 1: Tubulin beta



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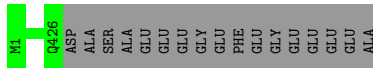


● Molecule 1: Tubulin beta



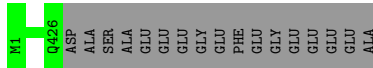
● Molecule 1: Tubulin beta





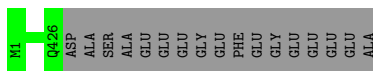
- Molecule 1: Tubulin beta

Chain Z0: 96% .



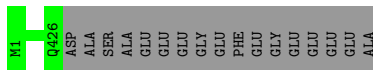
- Molecule 1: Tubulin beta

Chain Z2: 96% .



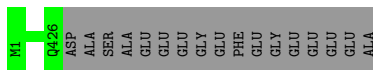
- Molecule 1: Tubulin beta

Chain Z4: 96% .



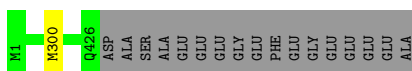
- Molecule 1: Tubulin beta

Chain Z6: 96% .



- Molecule 1: Tubulin beta

Chain Z8: 96% .



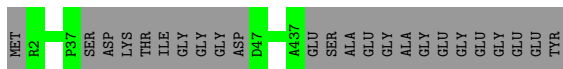
- Molecule 2: Tubulin alpha

Chain 0B: 95% 5%

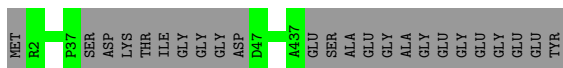


- Molecule 2: Tubulin alpha

Chain 0F: 95% 5%



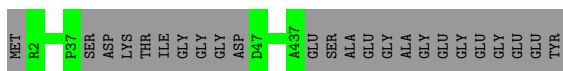
• Molecule 2: Tubulin alpha



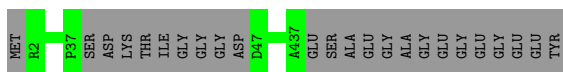
• Molecule 2: Tubulin alpha



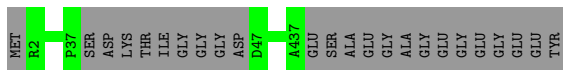
• Molecule 2: Tubulin alpha



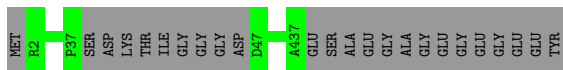
• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha

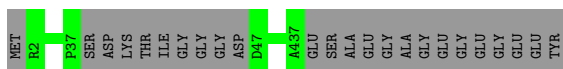


• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha





- Molecule 2: Tubulin alpha

Chain 0X: 94% 5%



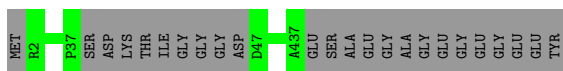
- Molecule 2: Tubulin alpha

Chain 0Z: 95% 5%



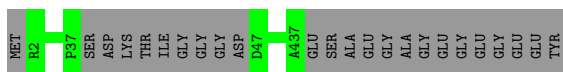
- Molecule 2: Tubulin alpha

Chain 1B: 95% 5%



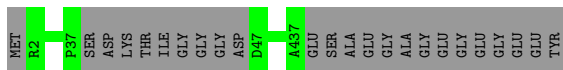
- Molecule 2: Tubulin alpha

Chain 1D: 95% 5%



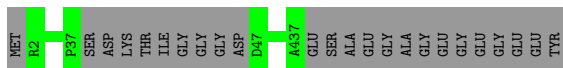
- Molecule 2: Tubulin alpha

Chain 1F: 95% 5%



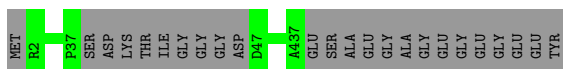
- Molecule 2: Tubulin alpha

Chain 1H: 95% 5%

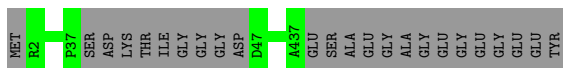


- Molecule 2: Tubulin alpha

Chain 1L: 95% 5%



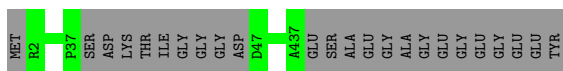
• Molecule 2: Tubulin alpha



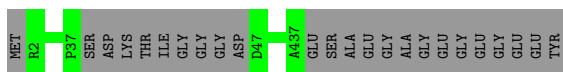
• Molecule 2: Tubulin alpha



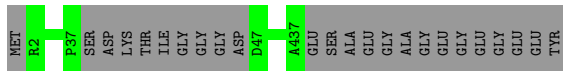
• Molecule 2: Tubulin alpha



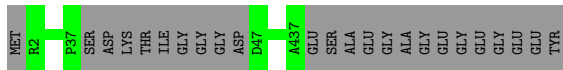
• Molecule 2: Tubulin alpha



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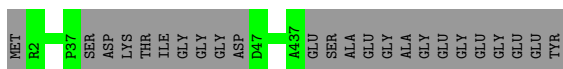


• Molecule 2: Tubulin alpha



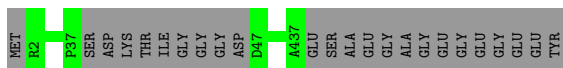
• Molecule 2: Tubulin alpha





- Molecule 2: Tubulin alpha

Chain 2B: 95% 5%



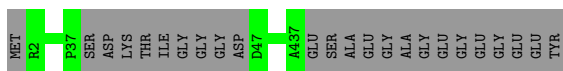
- Molecule 2: Tubulin alpha

Chain 2D: 95% 5%



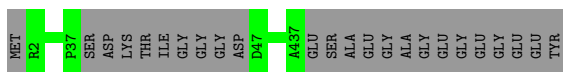
- Molecule 2: Tubulin alpha

Chain 2F: 95% 5%



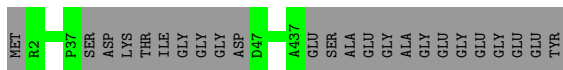
- Molecule 2: Tubulin alpha

Chain 2H: 95% 5%



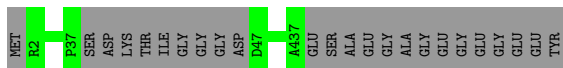
- Molecule 2: Tubulin alpha

Chain 2J: 95% 5%



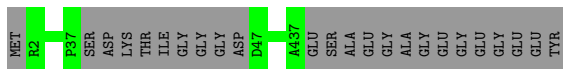
- Molecule 2: Tubulin alpha

Chain 2L: 95% 5%



- Molecule 2: Tubulin alpha

Chain 2N: 95% 5%



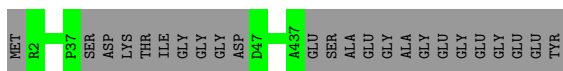
• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha



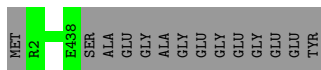
• Molecule 2: Tubulin alpha



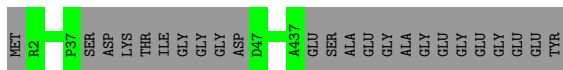
• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha

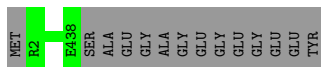


• Molecule 2: Tubulin alpha

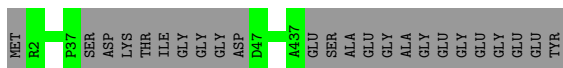


• Molecule 2: Tubulin alpha





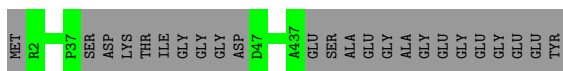
• Molecule 2: Tubulin alpha



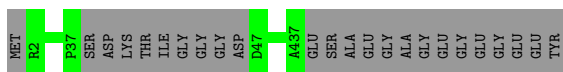
• Molecule 2: Tubulin alpha



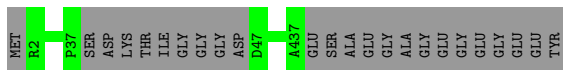
• Molecule 2: Tubulin alpha



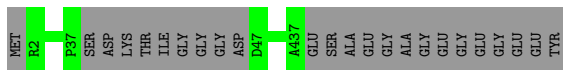
• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha

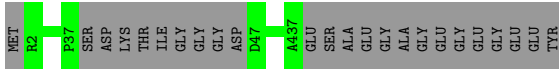


• Molecule 2: Tubulin alpha

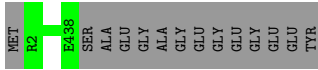


• Molecule 2: Tubulin alpha

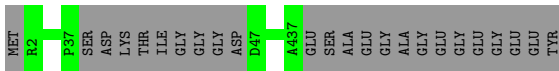
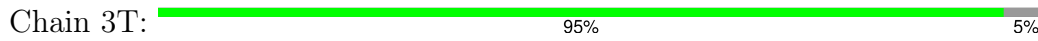




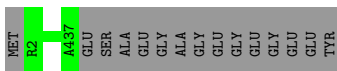
● Molecule 2: Tubulin alpha



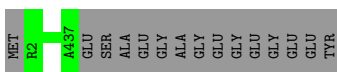
● Molecule 2: Tubulin alpha



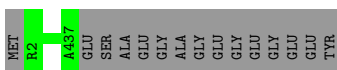
● Molecule 2: Tubulin alpha



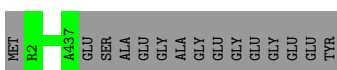
● Molecule 2: Tubulin alpha



● Molecule 2: Tubulin alpha

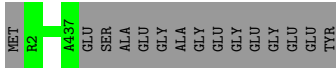


● Molecule 2: Tubulin alpha



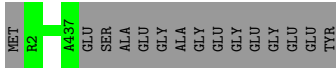
● Molecule 2: Tubulin alpha





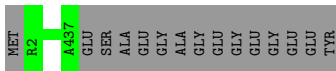
- Molecule 2: Tubulin alpha

Chain A2:  97%



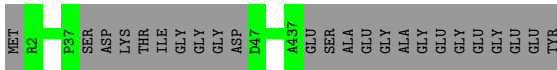
- Molecule 2: Tubulin alpha

Chain A4:  97%



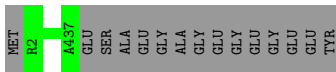
- Molecule 2: Tubulin alpha

Chain A8:  95% 5%



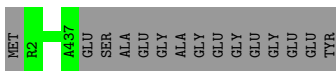
- Molecule 2: Tubulin alpha

Chain AT:  97%



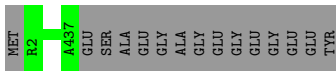
- Molecule 2: Tubulin alpha

Chain Ag:  97%



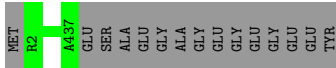
- Molecule 2: Tubulin alpha

Chain Ai:  97%

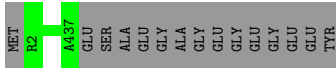


- Molecule 2: Tubulin alpha

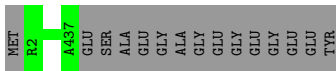
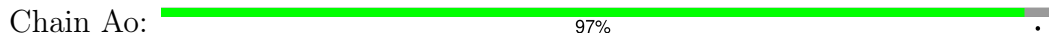
Chain Ak:  97%



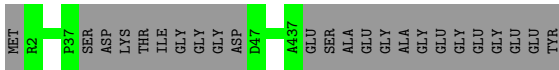
• Molecule 2: Tubulin alpha



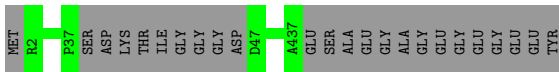
• Molecule 2: Tubulin alpha



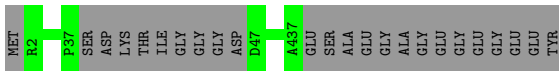
• Molecule 2: Tubulin alpha



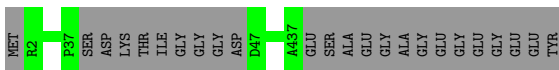
• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha

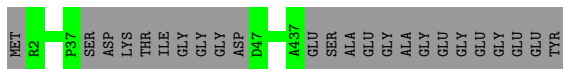


• Molecule 2: Tubulin alpha

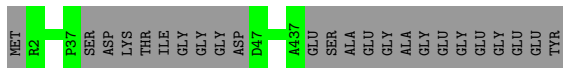


• Molecule 2: Tubulin alpha





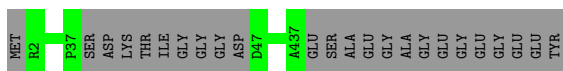
• Molecule 2: Tubulin alpha



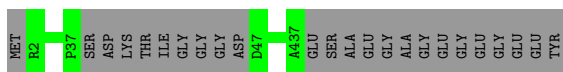
• Molecule 2: Tubulin alpha



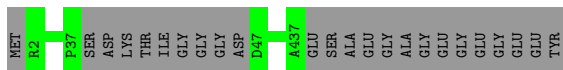
• Molecule 2: Tubulin alpha



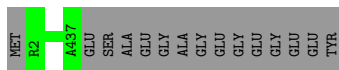
• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha

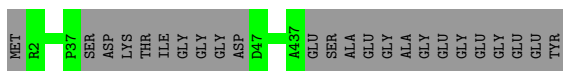


• Molecule 2: Tubulin alpha

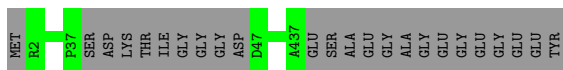


• Molecule 2: Tubulin alpha





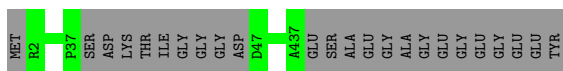
• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha



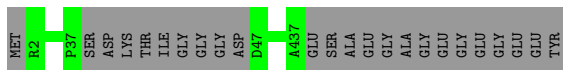
• Molecule 2: Tubulin alpha



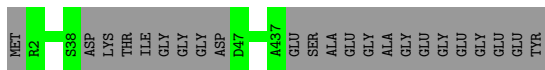
• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha

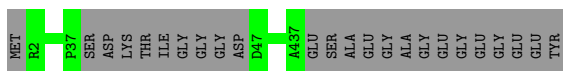


• Molecule 2: Tubulin alpha

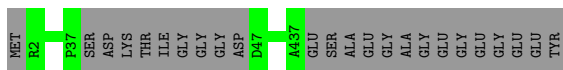


• Molecule 2: Tubulin alpha

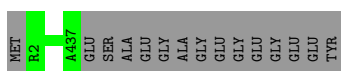




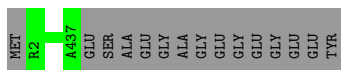
• Molecule 2: Tubulin alpha



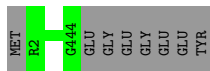
• Molecule 2: Tubulin alpha



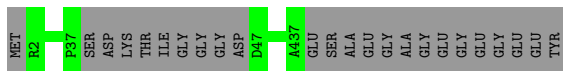
• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha

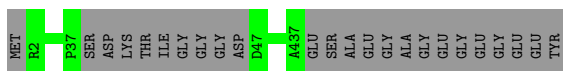


• Molecule 2: Tubulin alpha

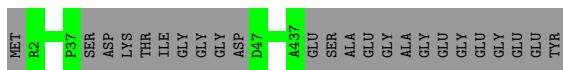


• Molecule 2: Tubulin alpha





• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha



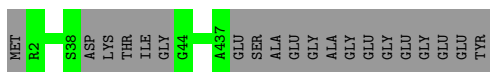
• Molecule 2: Tubulin alpha



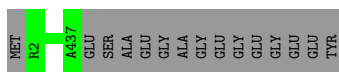
• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha

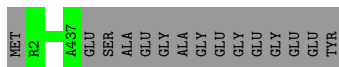


• Molecule 2: Tubulin alpha



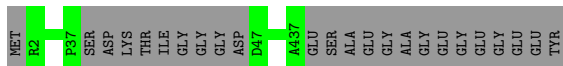
• Molecule 2: Tubulin alpha





- Molecule 2: Tubulin alpha

Chain C9:  95% 5%



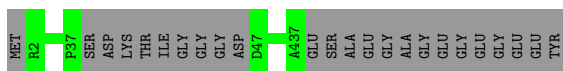
- Molecule 2: Tubulin alpha

Chain CA:  95% 5%



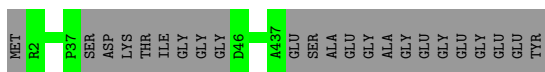
- Molecule 2: Tubulin alpha

Chain CF:  95% 5%



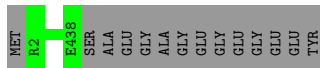
- Molecule 2: Tubulin alpha

Chain CH:  95% 5%



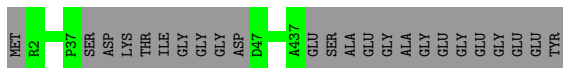
- Molecule 2: Tubulin alpha

Chain CJ:  97% .



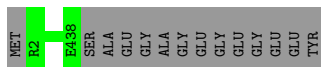
- Molecule 2: Tubulin alpha

Chain CL:  95% 5%

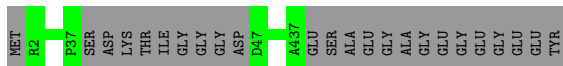


- Molecule 2: Tubulin alpha

Chain CN:  97% .



• Molecule 2: Tubulin alpha



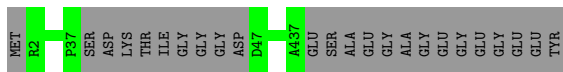
• Molecule 2: Tubulin alpha



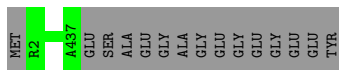
• Molecule 2: Tubulin alpha



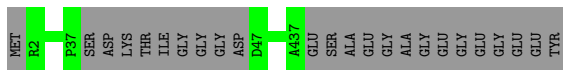
• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha

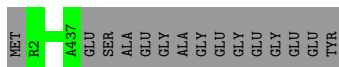


• Molecule 2: Tubulin alpha

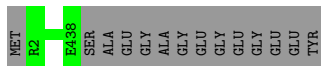


• Molecule 2: Tubulin alpha





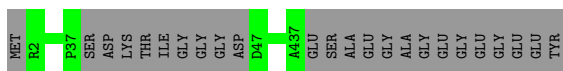
• Molecule 2: Tubulin alpha



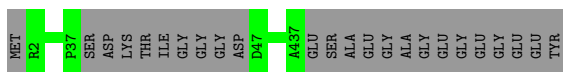
• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha

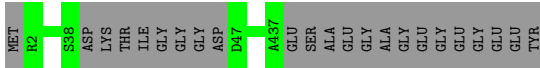


• Molecule 2: Tubulin alpha



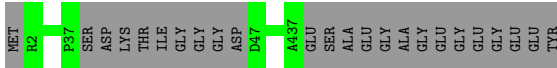
• Molecule 2: Tubulin alpha





- Molecule 2: Tubulin alpha

Chain D5: 95% 5%



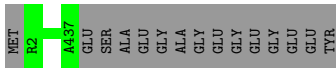
- Molecule 2: Tubulin alpha

Chain D7: 95% 5%



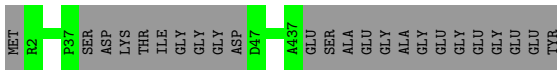
- Molecule 2: Tubulin alpha

Chain DD: 97% .



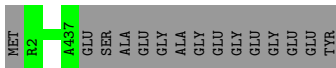
- Molecule 2: Tubulin alpha

Chain DF: 95% 5%



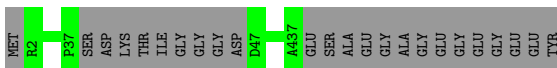
- Molecule 2: Tubulin alpha

Chain DH: 97% .



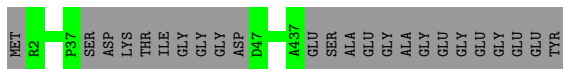
- Molecule 2: Tubulin alpha

Chain DJ: 95% 5%

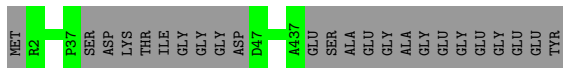


- Molecule 2: Tubulin alpha

Chain DL: 95% 5%



• Molecule 2: Tubulin alpha



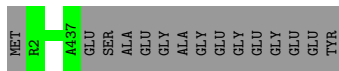
• Molecule 2: Tubulin alpha



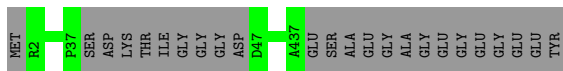
• Molecule 2: Tubulin alpha



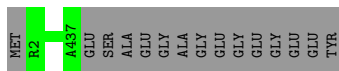
• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha

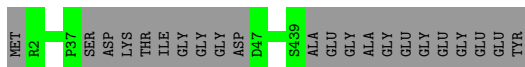


• Molecule 2: Tubulin alpha

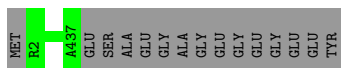


• Molecule 2: Tubulin alpha





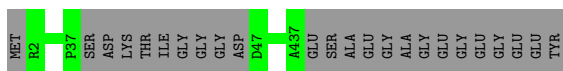
● Molecule 2: Tubulin alpha



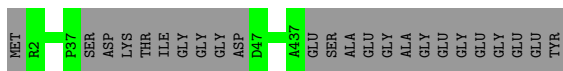
● Molecule 2: Tubulin alpha



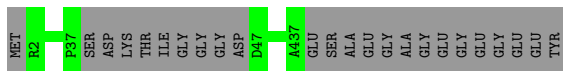
● Molecule 2: Tubulin alpha



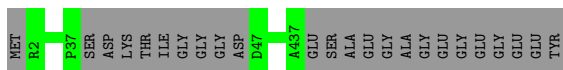
● Molecule 2: Tubulin alpha



● Molecule 2: Tubulin alpha

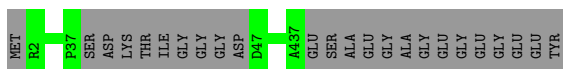


● Molecule 2: Tubulin alpha

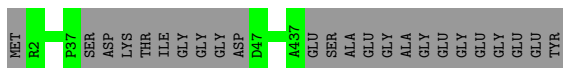


● Molecule 2: Tubulin alpha





- Molecule 2: Tubulin alpha



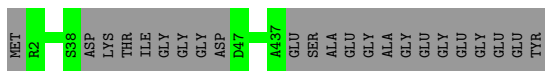
- Molecule 2: Tubulin alpha



- Molecule 2: Tubulin alpha



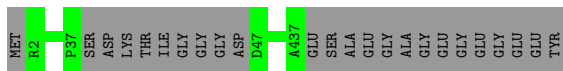
- Molecule 2: Tubulin alpha



- Molecule 2: Tubulin alpha

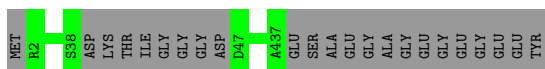


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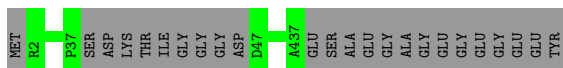


- Molecule 2: Tubulin alpha

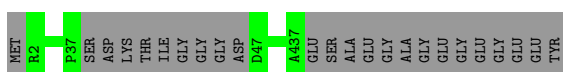




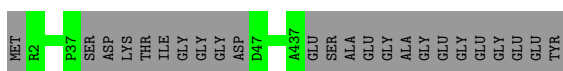
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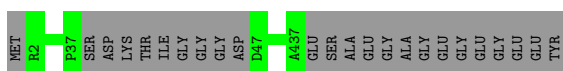
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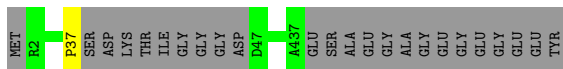


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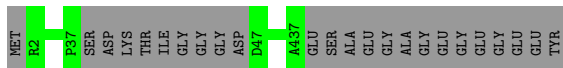


• Molecule 2: Tubulin alpha





• Molecule 2: Tubulin alpha



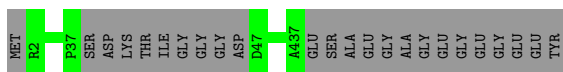
• Molecule 2: Tubulin alpha



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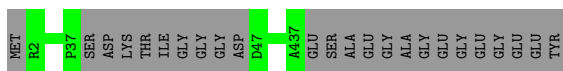


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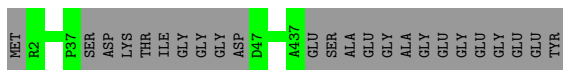


• Molecule 2: Tubulin alpha





• Molecule 2: Tubulin alpha



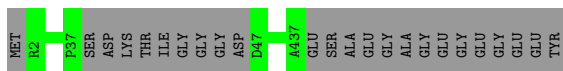
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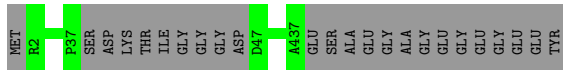
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• Molecule 2: Tubulin alpha

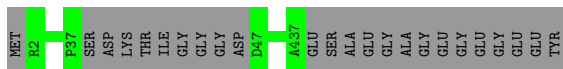


• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha





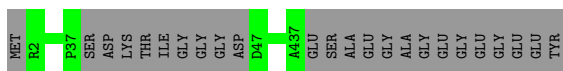
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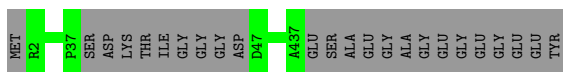
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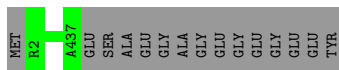
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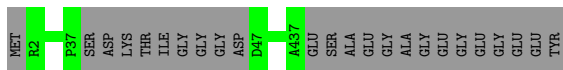
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• Molecule 2: Tubulin alpha

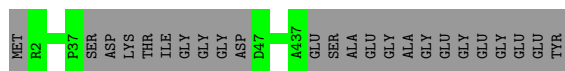


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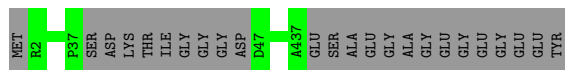


• Molecule 2: Tubulin alpha

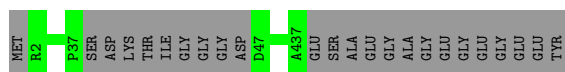




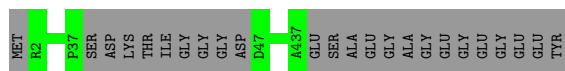
● Molecule 2: Tubulin alpha



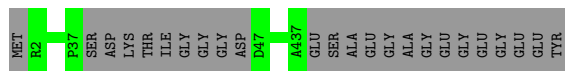
● Molecule 2: Tubulin alpha



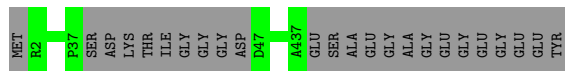
● Molecule 2: Tubulin alpha



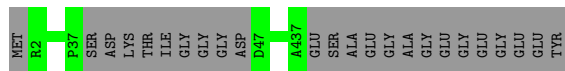
● Molecule 2: Tubulin alpha



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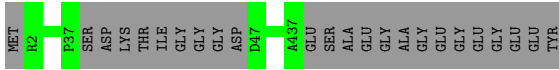


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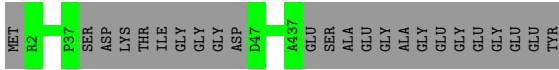


● Molecule 2: Tubulin alpha

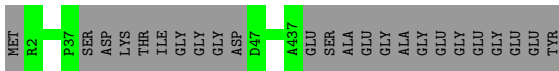
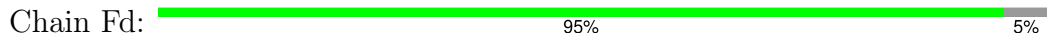




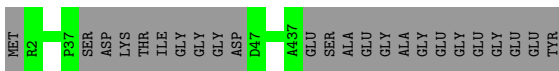
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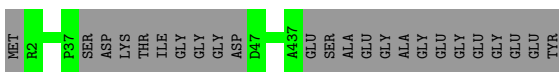
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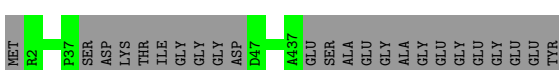
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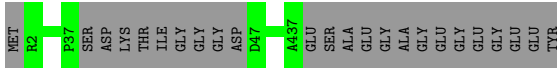


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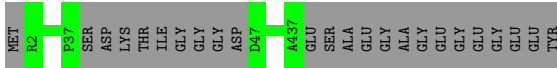
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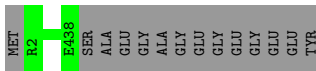
- Molecule 2: Tubulin alpha

Chain F5: 95% 5%



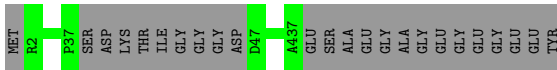
- Molecule 2: Tubulin alpha

Chain Fu: 97% .



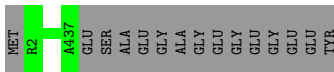
- Molecule 2: Tubulin alpha

Chain Fw: 95% 5%



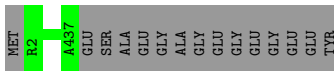
- Molecule 2: Tubulin alpha

Chain G1: 97% .



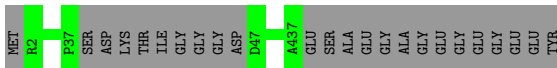
- Molecule 2: Tubulin alpha

Chain G3: 97% .



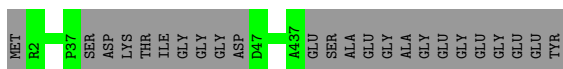
- Molecule 2: Tubulin alpha

Chain G5: 95% 5%



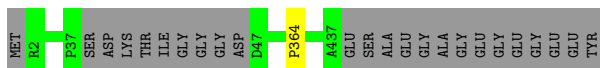
- Molecule 2: Tubulin alpha

Chain G7: 95% 5%



- Molecule 2: Tubulin alpha

Chain G9: 94% 5%



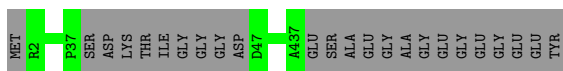
- Molecule 2: Tubulin alpha

Chain GC: 95% 5%



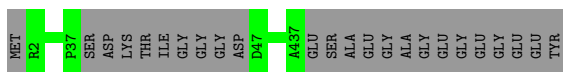
- Molecule 2: Tubulin alpha

Chain GE: 95% 5%



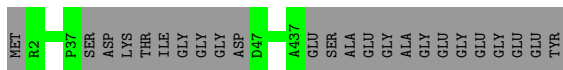
- Molecule 2: Tubulin alpha

Chain GG: 95% 5%



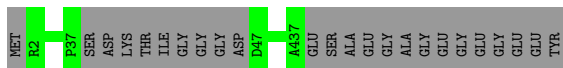
- Molecule 2: Tubulin alpha

Chain GI: 95% 5%



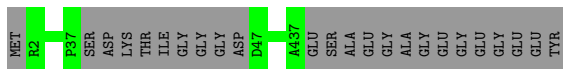
- Molecule 2: Tubulin alpha

Chain H1: 95% 5%

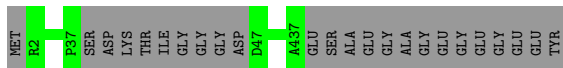


- Molecule 2: Tubulin alpha

Chain H3: 95% 5%



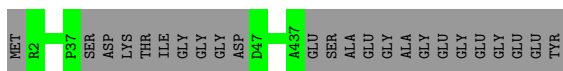
• Molecule 2: Tubulin alpha



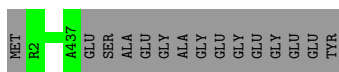
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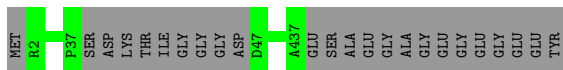
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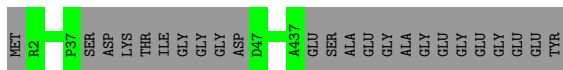
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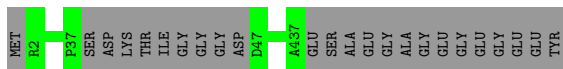


• Molecule 2: Tubulin alpha

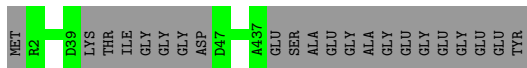


• Molecule 2: Tubulin alpha





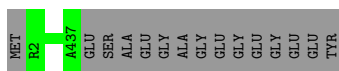
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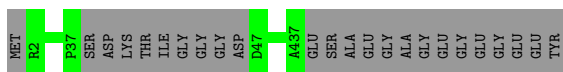
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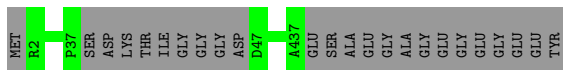
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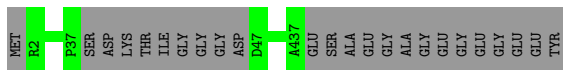
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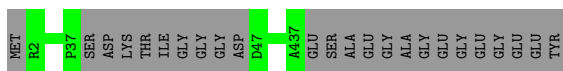


• Molecule 2: Tubulin alpha

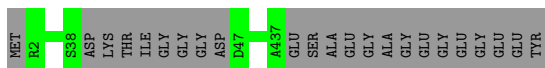


• Molecule 2: Tubulin alpha





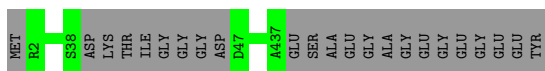
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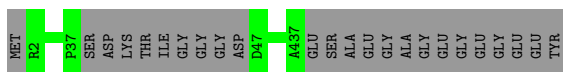
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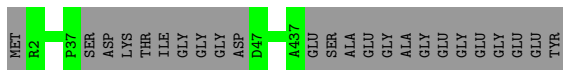
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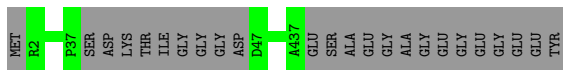
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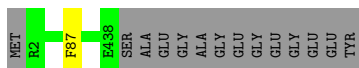


• Molecule 2: Tubulin alpha





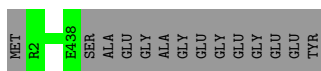
• Molecule 2: Tubulin alpha



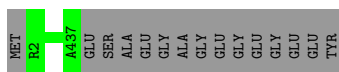
• Molecule 2: Tubulin alpha



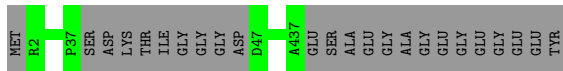
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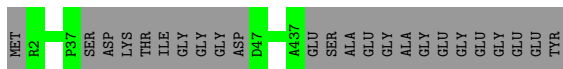


• Molecule 2: Tubulin alpha

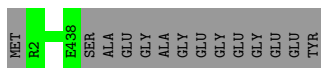


• Molecule 2: Tubulin alpha





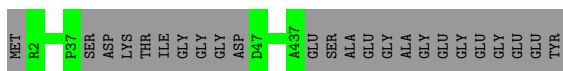
• Molecule 2: Tubulin alpha



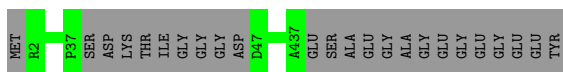
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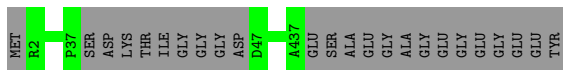
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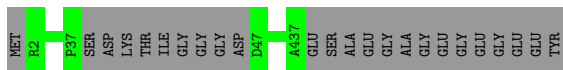
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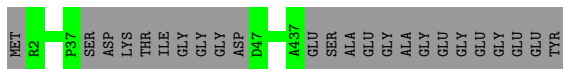


• Molecule 2: Tubulin alpha

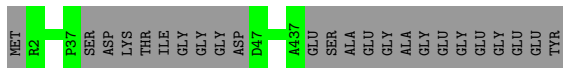


• Molecule 2: Tubulin alpha

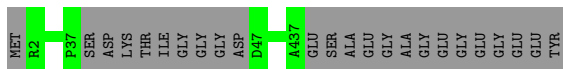




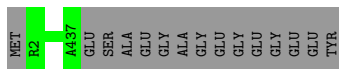
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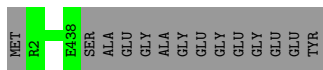
• Molecule 2: Tubulin alpha



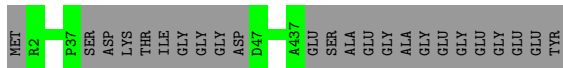
• Molecule 2: Tubulin alpha



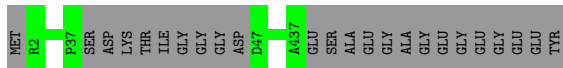
• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha

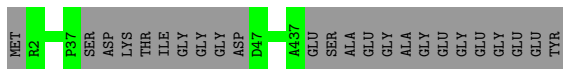


• Molecule 2: Tubulin alpha

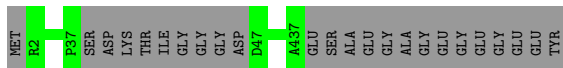


• Molecule 2: Tubulin alpha





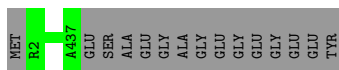
• Molecule 2: Tubulin alpha



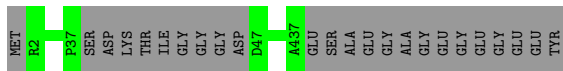
• Molecule 2: Tubulin alpha



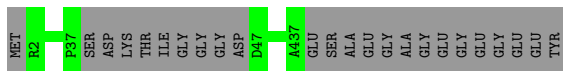
• Molecule 2: Tubulin alpha



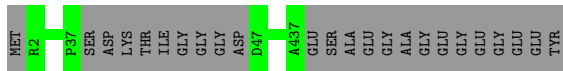
• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha

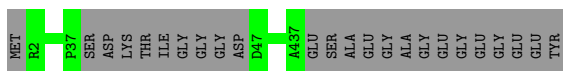


• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha





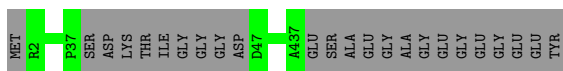
• Molecule 2: Tubulin alpha



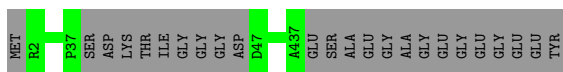
• Molecule 2: Tubulin alpha



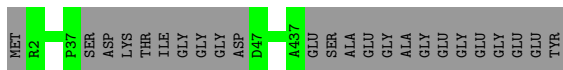
• Molecule 2: Tubulin alpha



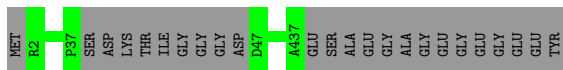
• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha

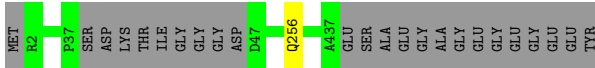


• Molecule 2: Tubulin alpha



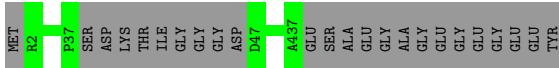
• Molecule 2: Tubulin alpha





- Molecule 2: Tubulin alpha

Chain Lv: 95% 5%



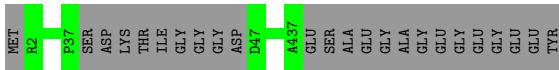
- Molecule 2: Tubulin alpha

Chain Lx: 94% 5%



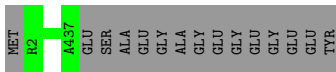
- Molecule 2: Tubulin alpha

Chain M1: 95% 5%



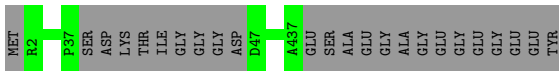
- Molecule 2: Tubulin alpha

Chain M3: 97% .



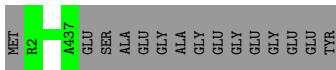
- Molecule 2: Tubulin alpha

Chain M5: 95% 5%



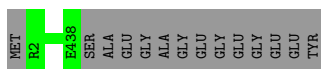
- Molecule 2: Tubulin alpha

Chain M7: 97% .

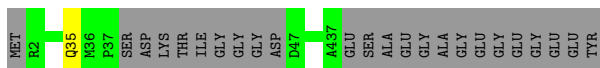


- Molecule 2: Tubulin alpha

Chain M9: 97% .



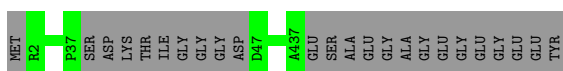
• Molecule 2: Tubulin alpha



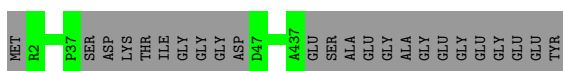
• Molecule 2: Tubulin alpha



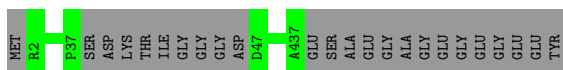
• Molecule 2: Tubulin alpha



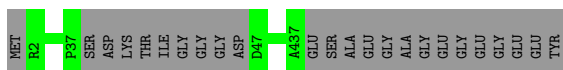
• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha

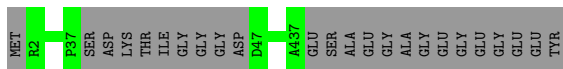


• Molecule 2: Tubulin alpha

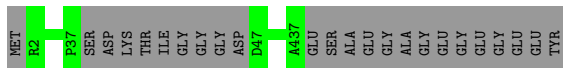


• Molecule 2: Tubulin alpha





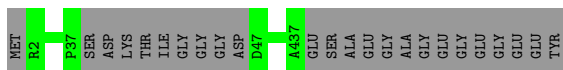
• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha



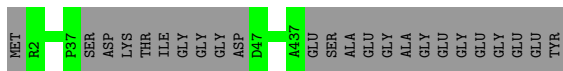
• Molecule 2: Tubulin alpha



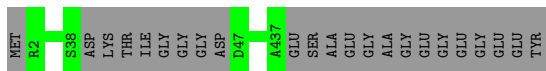
• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha

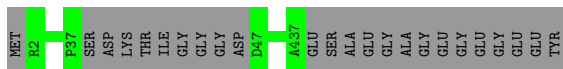


• Molecule 2: Tubulin alpha

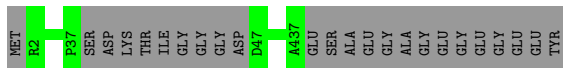


• Molecule 2: Tubulin alpha





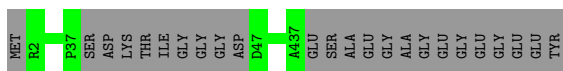
• Molecule 2: Tubulin alpha



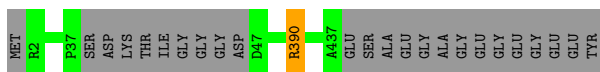
• Molecule 2: Tubulin alpha



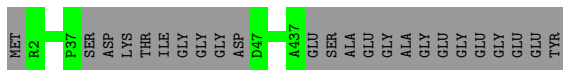
• Molecule 2: Tubulin alpha



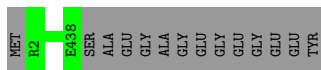
• Molecule 2: Tubulin alpha



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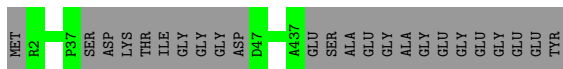


• Molecule 2: Tubulin alpha

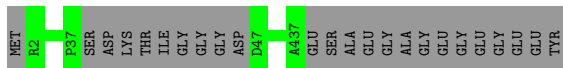


• Molecule 2: Tubulin alpha

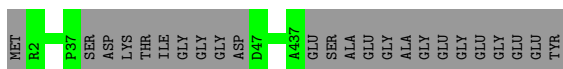




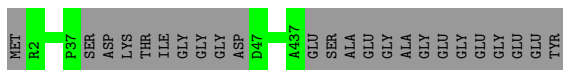
• Molecule 2: Tubulin alpha



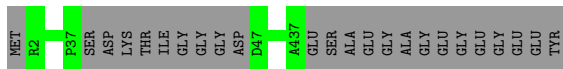
• Molecule 2: Tubulin alpha



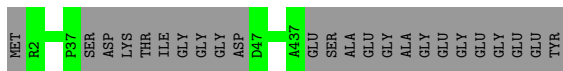
• Molecule 2: Tubulin alpha



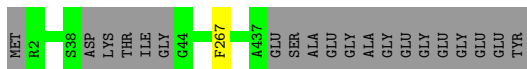
• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha

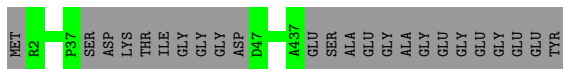


• Molecule 2: Tubulin alpha

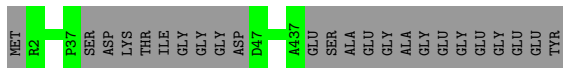


• Molecule 2: Tubulin alpha

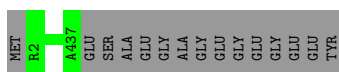




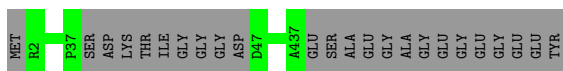
● Molecule 2: Tubulin alpha



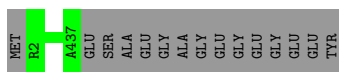
● Molecule 2: Tubulin alpha



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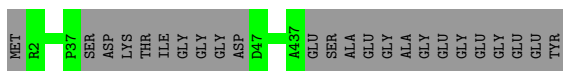


● Molecule 2: Tubulin alpha

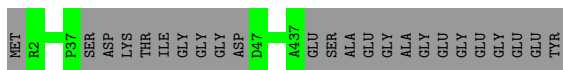


● Molecule 2: Tubulin alpha





• Molecule 2: Tubulin alpha



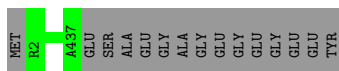
• Molecule 2: Tubulin alpha



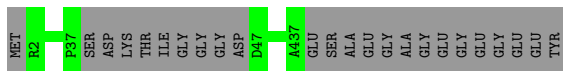
• Molecule 2: Tubulin alpha



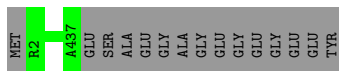
• Molecule 2: Tubulin alpha



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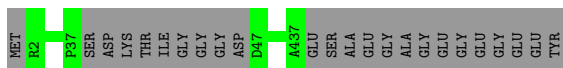
• Molecule 2: Tubulin alpha





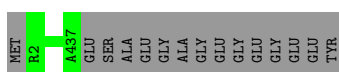
- Molecule 2: Tubulin alpha

Chain S5: 95% 5%



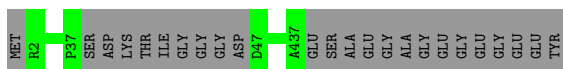
- Molecule 2: Tubulin alpha

Chain S7: 97% .



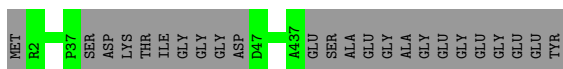
- Molecule 2: Tubulin alpha

Chain S9: 95% 5%



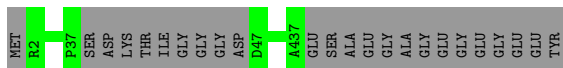
- Molecule 2: Tubulin alpha

Chain T1: 95% 5%



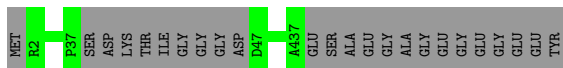
- Molecule 2: Tubulin alpha

Chain T3: 95% 5%



- Molecule 2: Tubulin alpha

Chain T5: 95% 5%

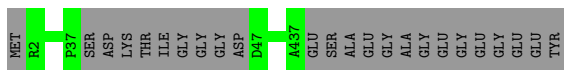


- Molecule 2: Tubulin alpha

Chain T7: 94% 5%



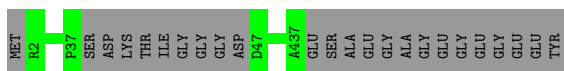
• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha



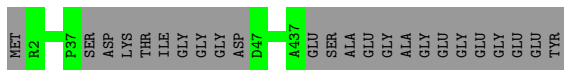
• Molecule 2: Tubulin alpha



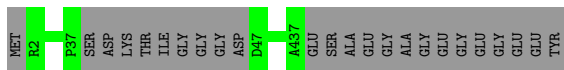
• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha

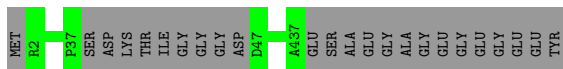


• Molecule 2: Tubulin alpha

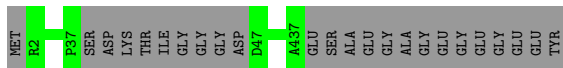


• Molecule 2: Tubulin alpha





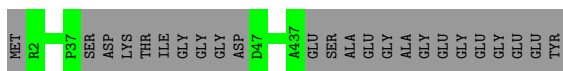
• Molecule 2: Tubulin alpha



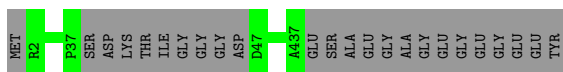
• Molecule 2: Tubulin alpha



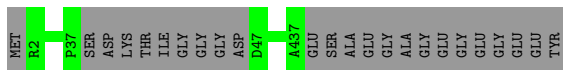
• Molecule 2: Tubulin alpha



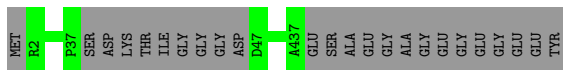
• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha

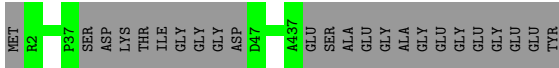


• Molecule 2: Tubulin alpha

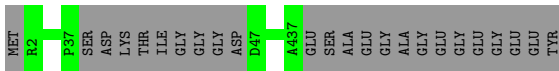
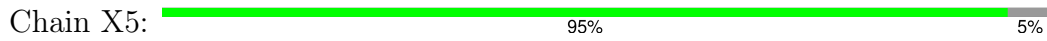




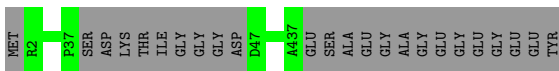
• Molecule 2: Tubulin alpha



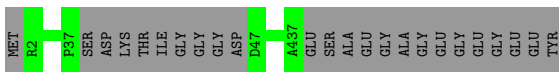
• Molecule 2: Tubulin alpha



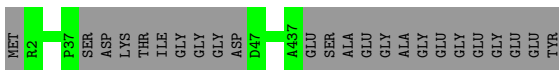
• Molecule 2: Tubulin alpha



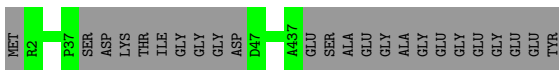
• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha

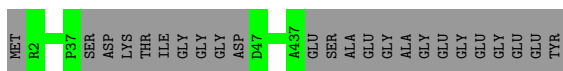


• Molecule 2: Tubulin alpha



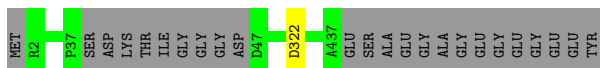
• Molecule 2: Tubulin alpha





- Molecule 2: Tubulin alpha

Chain Y9: 94% 5%



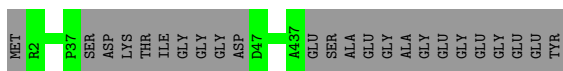
- Molecule 2: Tubulin alpha

Chain Z1: 95% 5%



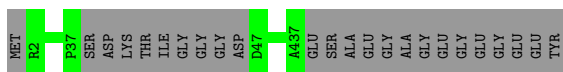
- Molecule 2: Tubulin alpha

Chain Z3: 95% 5%



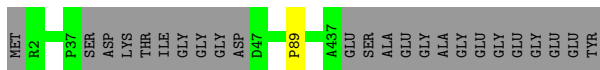
- Molecule 2: Tubulin alpha

Chain Z5: 95% 5%



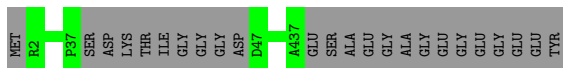
- Molecule 2: Tubulin alpha

Chain Z7: 94% 5%



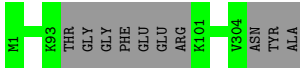
- Molecule 2: Tubulin alpha

Chain Z9: 95% 5%



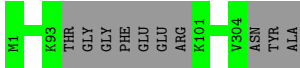
- Molecule 3: PACRG

Chain 3V: 97% 5%



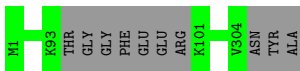
- Molecule 3: PACRG

Chain 3X: 97%



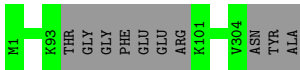
- Molecule 3: PACRG

Chain 3Z: 97%



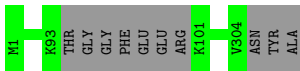
- Molecule 3: PACRG

Chain 4B: 97%



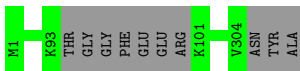
- Molecule 3: PACRG

Chain 4D: 97%



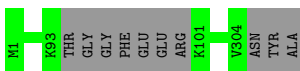
- Molecule 3: PACRG

Chain 4F: 97%



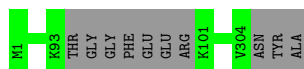
- Molecule 3: PACRG

Chain 4H: 97%



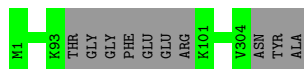
- Molecule 3: PACRG

Chain 4J: 97%



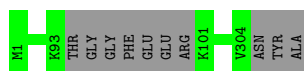
- Molecule 3: PACRG

Chain GP: 97%



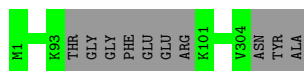
- Molecule 3: PACRG

Chain GR: 97%



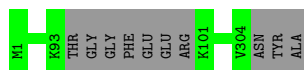
- Molecule 3: PACRG

Chain GT: 97%



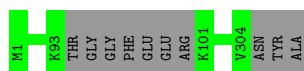
- Molecule 3: PACRG

Chain GV: 97%



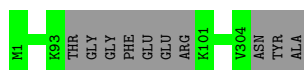
- Molecule 3: PACRG

Chain GX: 97%



- Molecule 3: PACRG

Chain Nt: 97%



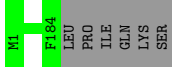
- Molecule 3: PACRG

Chain Nv: 97%



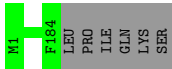
- Molecule 4: Cilia- and flagella-associated protein 20

Chain 3W:  97%



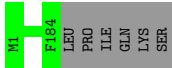
- Molecule 4: Cilia- and flagella-associated protein 20

Chain 3Y:  97%



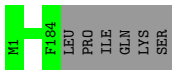
- Molecule 4: Cilia- and flagella-associated protein 20

Chain 4A:  97%



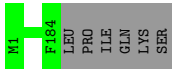
- Molecule 4: Cilia- and flagella-associated protein 20

Chain 4C:  97%



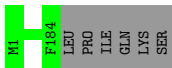
- Molecule 4: Cilia- and flagella-associated protein 20

Chain 4E:  97%



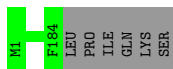
- Molecule 4: Cilia- and flagella-associated protein 20

Chain 4G:  97%



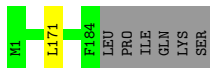
- Molecule 4: Cilia- and flagella-associated protein 20

Chain 4I:  97%



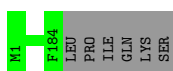
- Molecule 4: Cilia- and flagella-associated protein 20

Chain GO: 96%



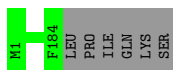
- Molecule 4: Cilia- and flagella-associated protein 20

Chain GQ: 97%



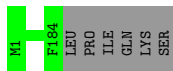
- Molecule 4: Cilia- and flagella-associated protein 20

Chain GS: 97%



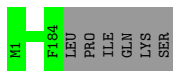
- Molecule 4: Cilia- and flagella-associated protein 20

Chain GU: 97%



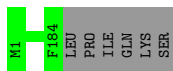
- Molecule 4: Cilia- and flagella-associated protein 20

Chain GW: 97%



- Molecule 4: Cilia- and flagella-associated protein 20

Chain Ns: 97%



- Molecule 4: Cilia- and flagella-associated protein 20

Chain Nu: 97%

MET
F184
LEU
PRO
ILE
GLN
LYS
SER

- Molecule 4: Cilia- and flagella-associated protein 20



MET
F184
LEU
PRO
ILE
GLN
LYS
SER

- Molecule 5: Meiosis-specific nuclear structural protein 1



MET	SER	ALA	ALA	CYS	ASP	ASP	ASP	GLY	GLY	THR	THR	ARG	ALA	ALA	LYS	LYS	ARG	GLY	H20	N497	ARG	ALA	LYS	ALA	ALA	THR	GLN	GLY
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- Molecule 5: Meiosis-specific nuclear structural protein 1



MET	SER	ALA	CYS	ASP	ASP	GLY	GLY	THR	THR	ARG	ALA	ALA	LYS	LYS	ARG	GLY	H20	N497	ARG	ALA	LYS	ALA	ALA	THR	GLN	GLY
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- Molecule 5: Meiosis-specific nuclear structural protein 1



MET	SER	ALA	CYS	ASP	ASP	GLY	GLY	THR	THR	ARG	ALA	ALA	LYS	LYS	ARG	GLY	H20	N497	ARG	ALA	LYS	ALA	ALA	THR	GLN	GLY	ALA	ALA
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ALA	GLU	ALA	GLU	GLU	ALA	ASP	GLN	GLN	ALA	ARG	ALA	GLU	ARG	GLU	GLN	VAL	ARG	ALA	ALA	ARG	VAL	VAL	VAL	ARG	GLN	GLN	VAL	GLU	ALA
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ASP	ALA	ALA	GLU	MET	ALA	ALA	GLN	GLN	GLU	GLU	THR	LYS	THR	GLU	GLU	THR	ASP	PHE	ILE	SER	HIS	PHE	ALA	PHE	GLU	LEU	GLN	ALA	ALA
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ARG	LYS	ALA	MET	ARG	LYS	ILE	ASP	GLN	TYR	GLU	GLU	GLU	TYR	GLU	GLU	THR	GLY	VAL	GLU	GLU	LEU	ILE	ARG	GLN	GLN	GLN	GLN	GLU	GLU
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LYS	GLU	GLU	GLU	ARG	ASP	ASP	TYR	GLN	MET	ALA	LYS	LYS	PHE	GLU	GLU	ALA	GLU	VAL	GLU	GLU	LEU	ALA	GLU	ALA	ALA	GLU	GLU	GLU	ALA
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GLU	VAL	GLN	ARG	ILE	ASP	GLY	GLY	GLN	ALA	PHE	ALA	ALA	ALA	GLU	GLU	ALA	ALA	ALA	ALA	VAL	VAL	GLU	GLU	GLU	ARG	ASN	ARG	GLU	LYS
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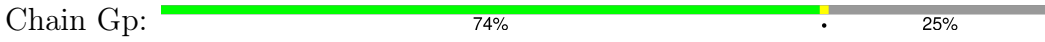
LEU	ARG	ASP	GLN	ALA	ASP	VAL	PHE	ILE	SER	ASN	VAL	LEU	GLU	GLU	ALA	ALA	ASN	ALA	ALA	LYS	THR	GLN	GLY
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

- Molecule 5: Meiosis-specific nuclear structural protein 1



GLU ARG GLN SER HIS TYR LEU GLU GLY ALA ARG LEU ARG GLY ALA GLN TYR ARG SER ARG GLY ALA GLN TYR LYS ARG GLN VAL ASP GLN LEU LEU PHE GLN ILE LYS ASP ARG LYS THR LYS LEU GLY VAL PRO SER LEU LEU LEU VAL VAL THR LEU ASP PRO LEU GLY TYR ARG ALA PRO LEU LEU THR ARG THR ARG THR ILE MET LYS ILE ARG SER

● Molecule 8: Cilia- and flagella-associated protein 45



MET PRO GLN THR PRO ARG SER GLY TYR ARG SER GLY ALA GLN TYR LYS ARG GLN VAL ASP GLN LEU LEU PHE GLN ILE LYS ASP ARG LYS THR LYS LEU GLY VAL PRO SER LEU LEU LEU VAL VAL THR LEU ASP PRO LEU GLY TYR ARG ALA PRO LEU LEU THR ARG THR ARG THR ILE MET LYS ILE ARG SER

THR LYS ASP THR ARG MET LEU ALA TYR ARG SER PRO ILE MET THR ALA GLN TYR ARG GLY ASP VAL ALA GLN ALA LEU ALA LYS PHE ARG GLY ALA GLN LEU LEU VAL VAL THR LEU SER LYS THR R101 A312 LYS GLU LYS ARG ILE ARG ILE LYS GLU MET ASP ARG THR ALA VAL THR LYS SER

ALA MET GLU ARG ALA ASP R338 K477 P487 R491 S501

● Molecule 8: Cilia- and flagella-associated protein 45



MET PRO GLN THR PRO ARG SER GLY TYR ARG SER GLY ALA GLN TYR LYS ARG GLN VAL ASP GLN LEU LEU PHE GLN ILE LYS ASP ARG LYS THR LYS LEU GLY VAL PRO SER LEU LEU LEU VAL VAL THR LEU ASP PRO LEU GLY TYR ARG ALA PRO LEU LEU THR ARG THR ARG THR ILE MET LYS ILE ARG SER

THR LYS ASP THR ARG MET LEU ALA TYR ARG SER PRO ILE MET THR ALA GLN TYR ARG GLY ASP VAL ALA GLN ALA LEU ALA LYS PHE ARG GLY ALA GLN LEU LEU VAL VAL THR LEU SER LYS THR R101 A312 LYS GLU LYS ARG ILE ARG ILE LYS GLU MET ASP ARG THR ALA VAL THR LYS SER

THR LYS ASP THR ARG MET LEU ALA TYR ARG SER PRO ILE MET THR ALA GLN TYR ARG GLY ASP VAL ALA GLN ALA LEU ALA LYS PHE ARG GLY ALA GLN LEU LEU VAL VAL THR LEU SER LYS THR R101 A312 LYS GLU LYS ARG ILE ARG ILE LYS GLU MET ASP ARG THR ALA VAL THR LYS SER

VAL GLU ARG VAL GLY ALA ASN D130 K158 LYS VAL GLN ILE THR LYS LEU ALA TYR ARG SER PRO ILE MET THR ALA GLN TYR ARG GLY ASP VAL ALA GLN ALA LEU ALA LYS PHE ARG GLY ALA GLN LEU LEU VAL VAL THR LEU SER LYS THR R101 A312 LYS GLU LYS ARG ILE ARG ILE LYS GLU MET ASP ARG THR ALA VAL THR LYS SER

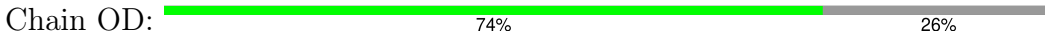
LEU MET VAL MET VAL ALA ASN GLU LEU SER GLN ILE LYS THR LYS LEU ALA TYR ARG SER PRO ILE MET THR ALA GLN TYR ARG GLY ASP VAL ALA GLN ALA LEU ALA LYS PHE ARG GLY ALA GLN LEU LEU VAL VAL THR LEU SER LYS THR R101 A312 LYS GLU LYS ARG ILE ARG ILE LYS GLU MET ASP ARG THR ALA VAL THR LYS SER

ARG LEU ARG ALA MET GLN ARG ALA ASN GLU LEU SER GLN ILE LYS THR LYS LEU ALA TYR ARG SER PRO ILE MET THR ALA GLN TYR ARG GLY ASP VAL ALA GLN ALA LEU ALA LYS PHE ARG GLY ALA GLN LEU LEU VAL VAL THR LEU SER LYS THR R101 A312 LYS GLU LYS ARG ILE ARG ILE LYS GLU MET ASP ARG THR ALA VAL THR LYS SER

LYS LEU GLN MET TYR LYS LEU ASP VAL ALA GLN ALA LEU ALA LYS PHE ARG GLY ALA GLN LEU LEU VAL VAL THR LEU SER LYS THR R101 A312 LYS GLU LYS ARG ILE ARG ILE LYS GLU MET ASP ARG THR ALA VAL THR LYS SER

ARG GLU ARG HIS TYR LEU GLU ALA ASN GLU LEU SER GLN ILE LYS THR LYS LEU ALA TYR ARG SER PRO ILE MET THR ALA GLN TYR ARG GLY ASP VAL ALA GLN ALA LEU ALA LYS PHE ARG GLY ALA GLN LEU LEU VAL VAL THR LEU SER LYS THR R101 A312 LYS GLU LYS ARG ILE ARG ILE LYS GLU MET ASP ARG THR ALA VAL THR LYS SER

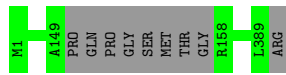
● Molecule 8: Cilia- and flagella-associated protein 45



MET PRO GLN THR PRO ARG SER GLY TYR ARG SER GLY ALA GLN TYR LYS ARG GLN VAL ASP GLN LEU LEU PHE GLN ILE LYS ASP ARG LYS THR LYS LEU GLY VAL PRO SER LEU LEU LEU VAL VAL THR LEU ASP PRO LEU GLY TYR ARG ALA PRO LEU LEU THR ARG THR ARG THR ILE MET LYS ILE ARG SER

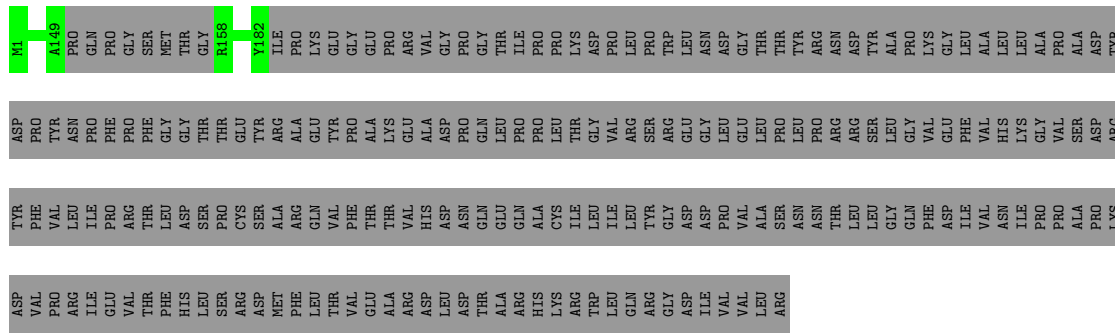
THR LYS ASP THR ARG MET LEU ALA TYR ARG SER PRO ILE MET THR ALA GLN TYR ARG GLY ASP VAL ALA GLN ALA LEU ALA LYS PHE ARG GLY ALA GLN LEU LEU VAL VAL THR LEU SER LYS THR R101 A312 LYS GLU LYS ARG ILE ARG ILE LYS GLU MET ASP ARG THR ALA VAL THR LYS SER

Chain 5F:  98%




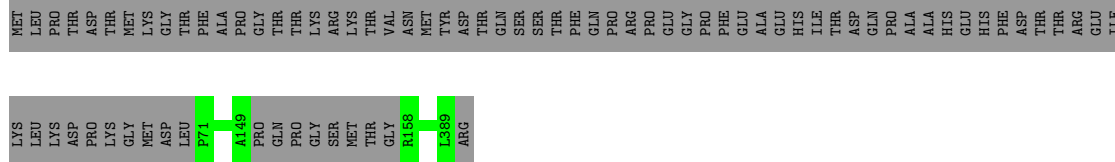
• Molecule 10: Flagellar associated protein

Chain 7B:  45% 55%



• Molecule 10: Flagellar associated protein

Chain Gs:  80% 20%



• Molecule 11: Protein Flattop homolog

Chain 5H:  99%



• Molecule 11: Protein Flattop homolog

Chain 5I:  99%



• Molecule 11: Protein Flattop homolog

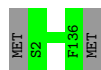
Chain 5J:  99%



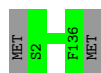
- Molecule 11: Protein Flattop homolog



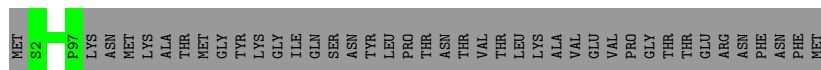
- Molecule 11: Protein Flattop homolog



- Molecule 11: Protein Flattop homolog



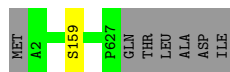
- Molecule 11: Protein Flattop homolog



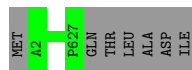
- Molecule 11: Protein Flattop homolog




- Molecule 12: FAP52



- Molecule 12: FAP52



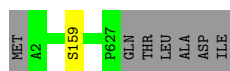
- Molecule 12: FAP52

Chain 5N:  99%



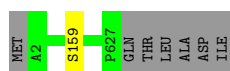
● Molecule 12: FAP52

Chain Ad:  99%



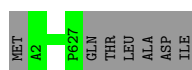
● Molecule 12: FAP52

Chain Ae:  99%



● Molecule 12: FAP52

Chain Af:  99%



● Molecule 12: FAP52

Chain Eo:  99%



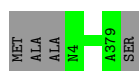
● Molecule 12: FAP52

Chain HG:  99%



● Molecule 13: Nucleoside diphosphate kinase

Chain 5O:  99%

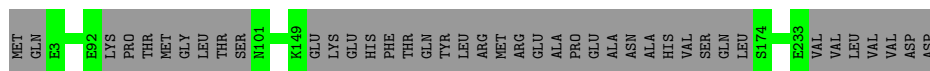
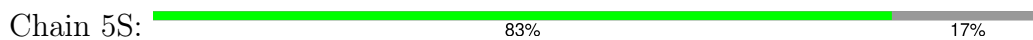


● Molecule 13: Nucleoside diphosphate kinase

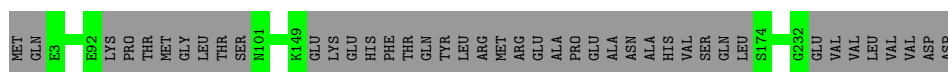
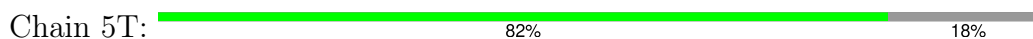
Chain 5P:  99%

PHE
LEU
GLY

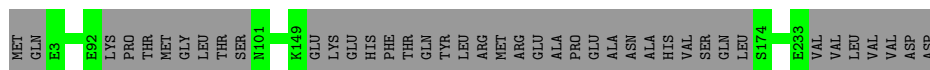
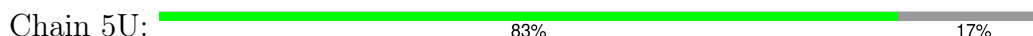
- Molecule 15: Flagellar associated protein



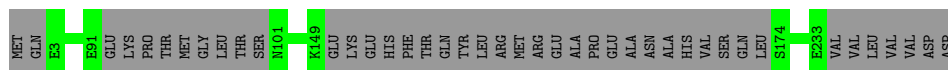
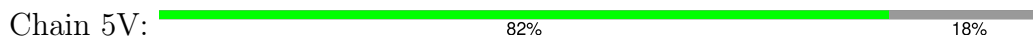
- Molecule 15: Flagellar associated protein



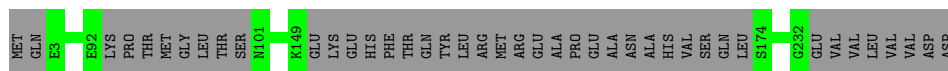
- Molecule 15: Flagellar associated protein



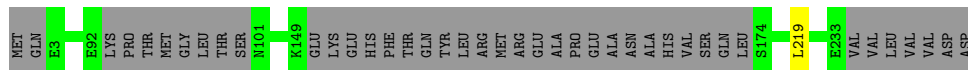
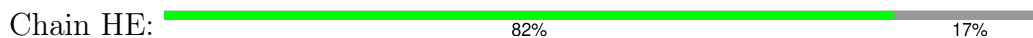
- Molecule 15: Flagellar associated protein



- Molecule 15: Flagellar associated protein

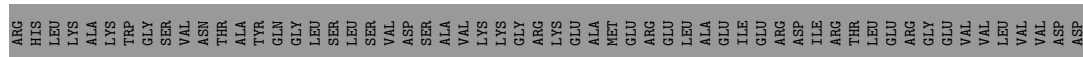
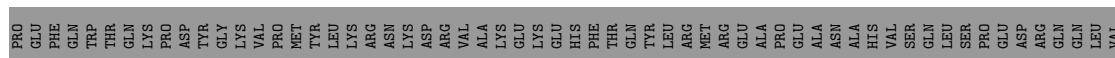
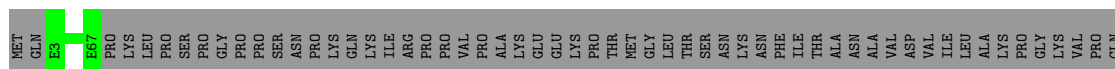


- Molecule 15: Flagellar associated protein

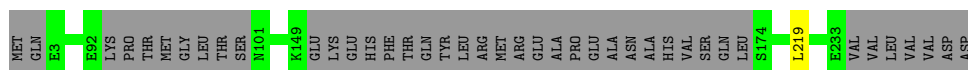
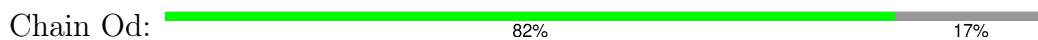


- Molecule 15: Flagellar associated protein

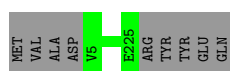




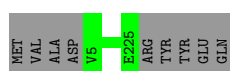
• Molecule 15: Flagellar associated protein



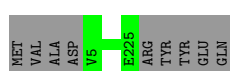
• Molecule 16: Flagellar associated protein



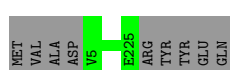
• Molecule 16: Flagellar associated protein



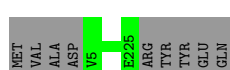
• Molecule 16: Flagellar associated protein



• Molecule 16: Flagellar associated protein

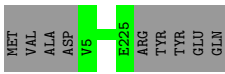


• Molecule 16: Flagellar associated protein



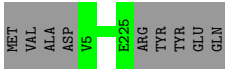
- Molecule 16: Flagellar associated protein

Chain 6C:  96%



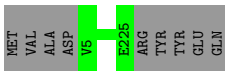
- Molecule 16: Flagellar associated protein

Chain 6D:  96%



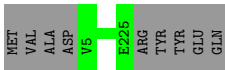
- Molecule 16: Flagellar associated protein

Chain HH:  96%



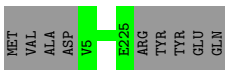
- Molecule 16: Flagellar associated protein

Chain HI:  96%



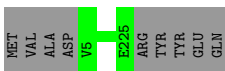
- Molecule 16: Flagellar associated protein

Chain HJ:  96%



- Molecule 16: Flagellar associated protein

Chain HK:  96%



- Molecule 16: Flagellar associated protein

Chain HL:  96%



- Molecule 16: Flagellar associated protein

Chain Oi:  96%

MET VAL ALA ASP V5 E2295 ARG TYR TYR GLU GLN

- Molecule 16: Flagellar associated protein

Chain Oj:  96%

MET VAL ALA ASP V5 E2295 ARG TYR TYR GLU GLN

- Molecule 16: Flagellar associated protein

Chain Ok:  96%

MET VAL ALA ASP V5 E2295 ARG TYR TYR GLU GLN

- Molecule 17: FAP143

Chain 6E:  95% 5%

MET ALA GLU T5 D48 THR SER ASP GLY THR SER PRO THR ARG S58 E268

- Molecule 17: FAP143

Chain HN:  95% 5%

MET ALA GLU T5 D48 THR SER ASP GLY THR SER PRO THR ARG S58 E268

- Molecule 17: FAP143

Chain Om:  50% 50%

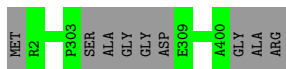
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MET LYS SER THR ASN PHE SER LYS PRO MET SER ASP TYR SER LYS VAL VAL ASP GLU

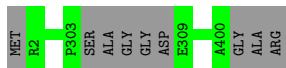
GLY LYS SER THR ASN PHE SER LYS PRO MET SER ASP TYR SER LYS VAL VAL ASP GLU

- Molecule 18: Flagellar associated protein

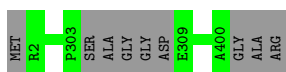
Chain 6F:  98%



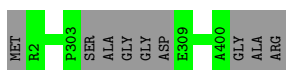
• Molecule 18: Flagellar associated protein



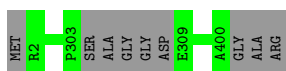
• Molecule 18: Flagellar associated protein



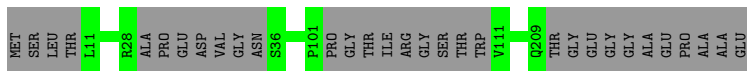
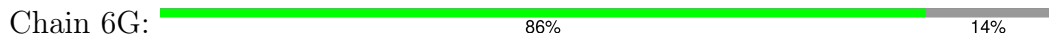
• Molecule 18: Flagellar associated protein



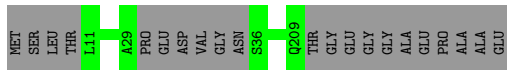
• Molecule 18: Flagellar associated protein



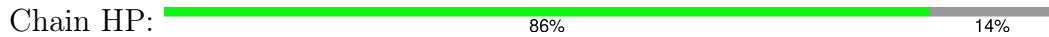
• Molecule 19: FAP166

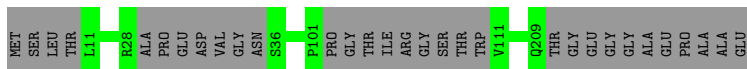


• Molecule 19: FAP166



• Molecule 19: FAP166

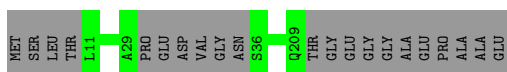




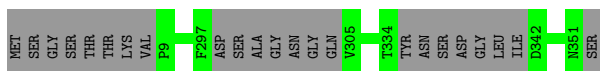
• Molecule 19: FAP166



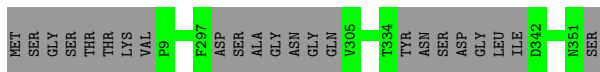
• Molecule 19: FAP166



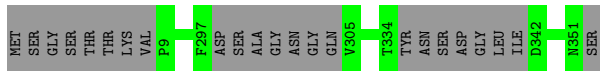
• Molecule 20: Flagellar associated protein



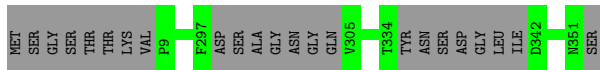
• Molecule 20: Flagellar associated protein



• Molecule 20: Flagellar associated protein

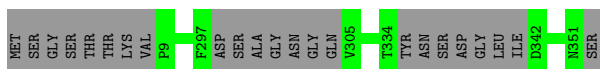


• Molecule 20: Flagellar associated protein

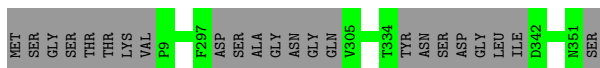


• Molecule 20: Flagellar associated protein

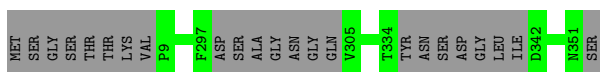




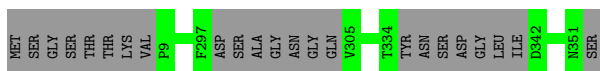
● Molecule 20: Flagellar associated protein



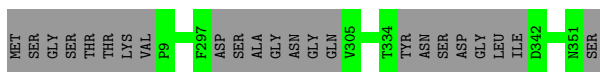
● Molecule 20: Flagellar associated protein



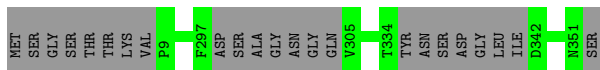
● Molecule 20: Flagellar associated protein



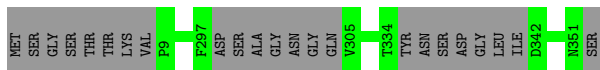
● Molecule 20: Flagellar associated protein



● Molecule 20: Flagellar associated protein

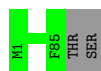


● Molecule 20: Flagellar associated protein



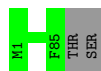
● Molecule 20: Flagellar associated protein





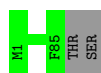
- Molecule 21: FAP339

Chain 6R:
98%



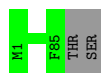
- Molecule 21: FAP339

Chain 6S:
98%



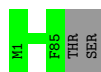
- Molecule 21: FAP339

Chain HY:
98%



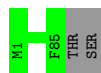
- Molecule 21: FAP339

Chain HZ:
98%



- Molecule 21: FAP339

Chain Ha:
98%



- Molecule 21: FAP339

Chain Oy:
98%

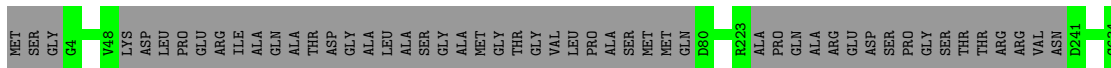


- Molecule 21: FAP339

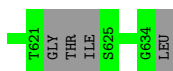
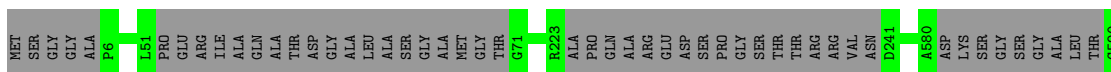
Chain Oz:
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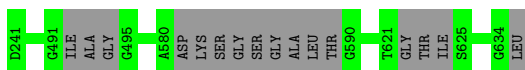
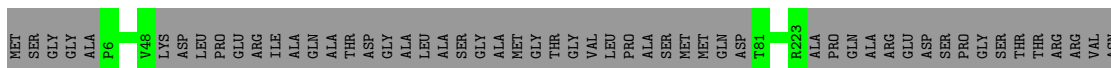
- Molecule 22: Protofilament ribbon protein of flagellar microtubules



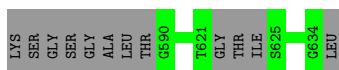
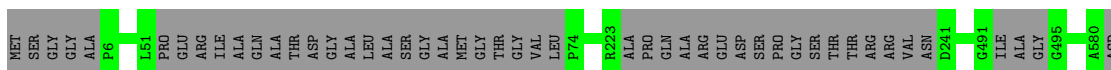
- Molecule 22: Protofilament ribbon protein of flagellar microtubules



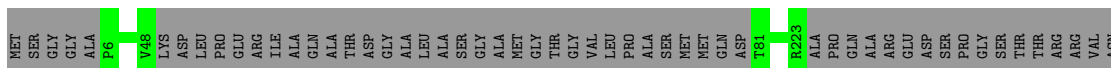
- Molecule 22: Protofilament ribbon protein of flagellar microtubules

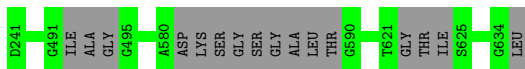


- Molecule 22: Protofilament ribbon protein of flagellar microtubules

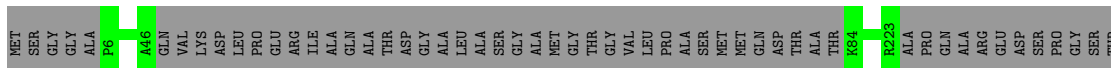
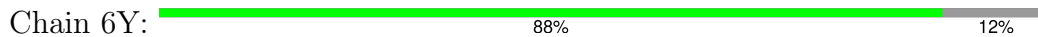


- Molecule 22: Protofilament ribbon protein of flagellar microtubules

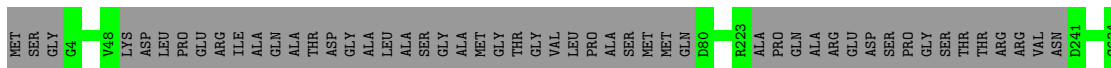




- Molecule 22: Protofilament ribbon protein of flagellar microtubules

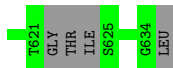
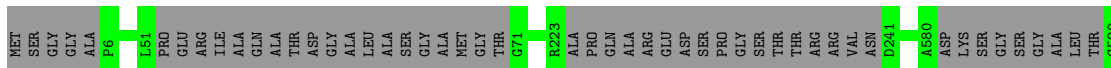


- Molecule 22: Protofilament ribbon protein of flagellar microtubules

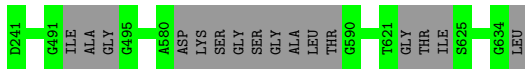
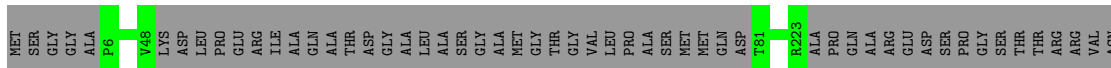


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- Molecule 22: Protofilament ribbon protein of flagellar microtubules

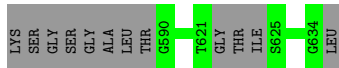


- Molecule 22: Protofilament ribbon protein of flagellar microtubules

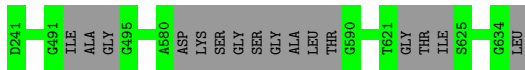
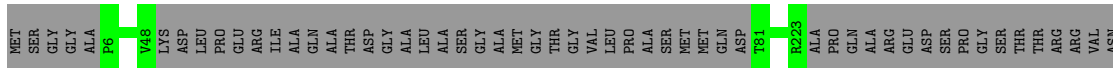


- Molecule 22: Protofilament ribbon protein of flagellar microtubules

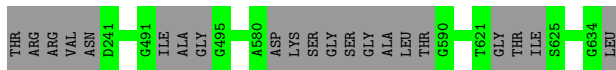
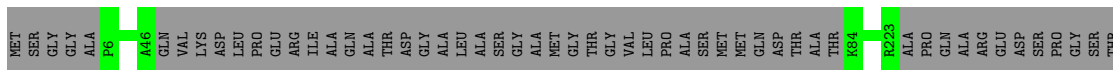




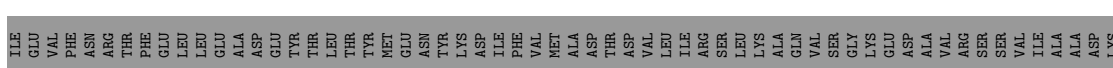
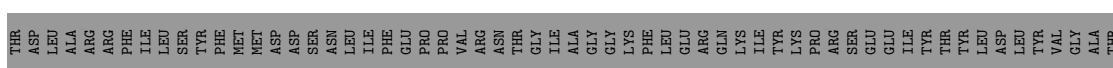
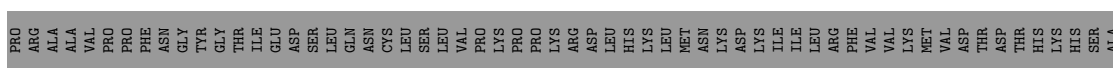
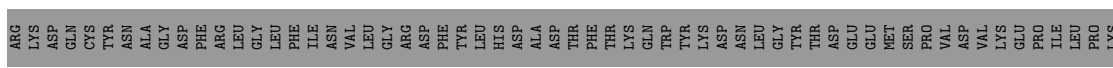
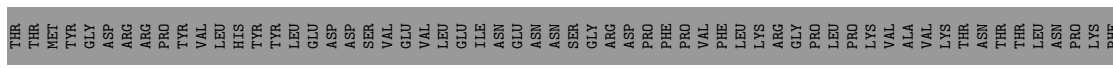
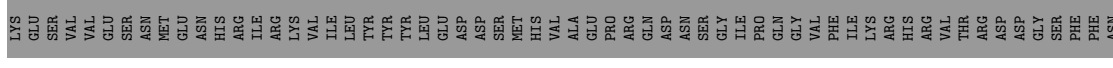
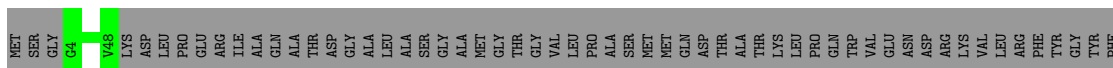
- Molecule 22: Protofilament ribbon protein of flagellar microtubules

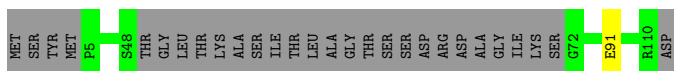


- Molecule 22: Protofilament ribbon protein of flagellar microtubules

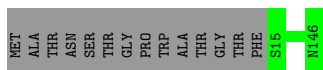


- Molecule 22: Protofilament ribbon protein of flagellar microtubules

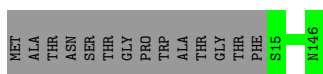




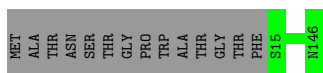
• Molecule 24: Flagellar associated protein



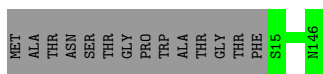
• Molecule 24: Flagellar associated protein



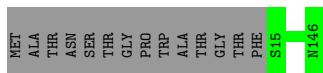
• Molecule 24: Flagellar associated protein



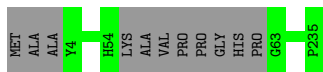
• Molecule 24: Flagellar associated protein



• Molecule 24: Flagellar associated protein



• Molecule 25: Flagellar associated protein



• Molecule 25: Flagellar associated protein



LEU ARG
 SER VAL
 ALA ALA
 ASN ASN
 CYS CYS
 TYR TYR
 ASP GLY
 ASN GLU
 PRO PRO
 ASP ALA
 ALA ALA
 GLN GLN
 VAL VAL
 LEU LEU
 ARG ARG
 GLN GLN
 THR THR
 LEU LEU
 VAL VAL
 ASP ASP
 GLU GLU
 ALA ALA
 THR THR
 LEU LEU
 PHE PHE

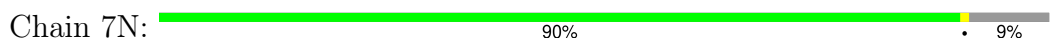
GLU
 ALA
 TRP
 LEU
 ALA
 ALA
 ALA
 ASP
 THR
 ARG
 LYS
 ARG
 LYS
 ARG
 GLY
 VAL
 SER
 PHE

- Molecule 29: Flagellar associated protein



MET
 S2
 K127
 PRO
 ALA
 ASP
 THR
 ARG
 LYS
 ARG
 LYS
 ARG
 GLY
 VAL
 SER

- Molecule 29: Flagellar associated protein



MET
 S2
 P6
 K127
 PRO
 ALA
 ASP
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 GLY
 VAL
 SER

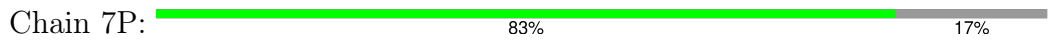
- Molecule 29: Flagellar associated protein



MET
 SER
 ILE
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 GLY
 PRO
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 MET
 LEU
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 THR
 TRP
 ARG
 THR
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 TYR
 GLY
 LEU
 ASP
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 MET
 MET
 MET
 ALA
 G92
 K127
 PRO
 ALA
 ASP
 THR
 ARG
 ARG

LYS
 TYR
 ARG
 GLY
 VAL
 SER

- Molecule 30: Flagellar associated protein



MET
 GLN
 GLY
 ASP
 ARG
 TRP
 SER
 ARG
 ASN
 CYS
 GLY
 SER
 GLY
 VAL
 V15
 K39
 THR
 THR
 GLY
 ARG
 MET
 GLY
 GLU
 THR
 THR
 ILE
 LEU
 SER
 HIS
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 THR
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 I60
 G231
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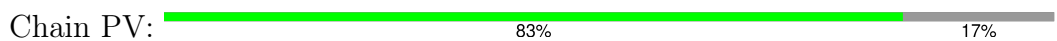
- Molecule 30: Flagellar associated protein



MET
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 I60

G231
 LEU
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 ASN
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 ARG
 SER

- Molecule 30: Flagellar associated protein



MET	GLN	GLY	ASP	TRP	SER	ARG	ASN	CYS	GLY	SER	GLY	V15	K39	THR	THR	GLY	ARG	MET	GLY	GLU	THR	ILE	LEU	HIS	THR	GLY	PRO	GLY	ALA	GLN	THR	GLY	I60	G231	LEU	ARG	VAL	ASN	TYR	ARG	SER
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• Molecule 31: FAP306



MET	ASP	ALA	THR	THR	THR	LEU	LYS	SER	THR	THR	ARG	VAL	ASP	ASN	HIS	SER	THR	ASN	PRO	ASN	PHE	LYS	THR	SER	HIS	THR	ARG	GLY	GLN	TRP	THR	PRO	GLY	ARG	SER	PRO	PRO	PRO	LEU	THR	THR	TYR	THR	THR	ILE	PHE	GLY	GLU	ARG	PRO	PRO	PRO	ARG	GLY	LEU	PRO	THR	THR	THR	LYS	LEU	PRO	ARG	TYR	VAL
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PRO	LYS	TYR	ALA	VAL	SER	PRO	GLU	THR	LYS	ALA	THR	THR	THR	ARG	VAL	ASP	HIS	GLY	SER	ASN	PRO	TYR	PHE	LYS	ARG	ALA	THR	THR	ALA	GLY	SER	GLN	TRP	THR	ASP	GLY	ARG	ALA	THR	PRO	PRO	PRO	ARG	PHE	LEU	SER	THR	THR	THR	TYR	ALA	ALA	GLY	ILE	VAL	SER	HIS	PRO	GLY	GLU	ARG	PRO	THR	THR	THR	THR	LYS	LEU	PRO	ARG	TYR	VAL
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F189

• Molecule 31: FAP306



MET	ASP	ALA	THR	THR	THR	LEU	LYS	SER	THR	THR	ARG	VAL	ASP	ASN	HIS	GLY	SER	ASN	PRO	ASN	PHE	LYS	THR	SER	HIS	THR	ARG	GLY	GLN	TRP	THR	ASP	GLY	ARG	SER	PRO	PRO	PRO	ARG	PHE	LEU	SER	THR	THR	THR	TYR	ALA	ALA	GLY	ILE	VAL	SER	HIS	PRO	GLY	GLU	ARG	PRO	THR	THR	THR	THR	LYS	LEU	PRO	ARG	TYR	VAL
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PRO	LYS	TYR	ALA	VAL	SER	PRO	GLU	THR	LYS	ALA	THR	THR	THR	ARG	VAL	ASP	HIS	GLY	SER	ASN	PRO	TYR	PHE	LYS	ARG	ALA	THR	THR	ALA	GLY	SER	GLN	TRP	THR	ASP	GLY	ARG	ALA	THR	PRO	PRO	PRO	ARG	PHE	LEU	SER	THR	THR	THR	TYR	ALA	ALA	GLY	ILE	VAL	SER	HIS	PRO	GLY	GLU	ARG	PRO	THR	THR	THR	THR	LYS	LEU	PRO	ARG	TYR	VAL
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F189

• Molecule 31: FAP306



MET	ASP	ALA	THR	THR	THR	LEU	LYS	SER	THR	THR	ARG	VAL	ASP	ASN	HIS	GLY	SER	ASN	PRO	ASN	PHE	LYS	THR	SER	HIS	THR	ARG	GLY	GLN	TRP	THR	ASP	GLY	ARG	SER	PRO	PRO	PRO	ARG	PHE	LEU	SER	THR	THR	THR	TYR	ALA	ALA	GLY	ILE	VAL	SER	HIS	PRO	GLY	GLU	ARG	PRO	THR	THR	THR	THR	LYS	LEU	PRO	ARG	TYR	VAL
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PRO	LYS	TYR	ALA	VAL	SER	PRO	GLU	THR	LYS	ALA	THR	THR	THR	ARG	VAL	ASP	HIS	GLY	SER	ASN	PRO	TYR	PHE	LYS	ARG	ALA	THR	THR	ALA	GLY	SER	GLN	TRP	THR	ASP	GLY	ARG	ALA	THR	PRO	PRO	PRO	ARG	PHE	LEU	SER	THR	THR	THR	TYR	ALA	ALA	GLY	ILE	VAL	SER	HIS	PRO	GLY	GLU	ARG	PRO	THR	THR	THR	THR	LYS	LEU	PRO	ARG	TYR	VAL
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F189

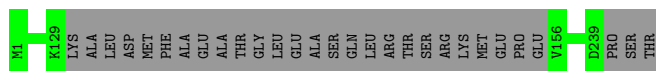
• Molecule 31: FAP306



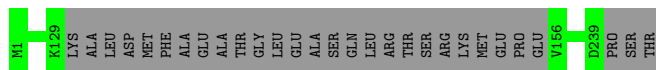
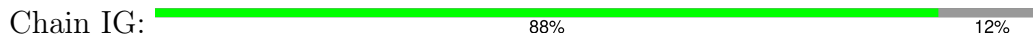
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PRO	LYS	TYR	ALA	VAL	SER	PRO	GLU	THR	LYS	ALA	THR	THR	THR	ARG	VAL	ASP	HIS	GLY	SER	ASN	PRO	TYR	PHE	LYS	ARG	ALA	THR	THR	ALA	GLY	SER	GLN	TRP	THR	ASP	GLY	ARG	ALA	THR	PRO	PRO	PRO	ARG	PHE	LEU	SER	THR	THR	THR	TYR	ALA	ALA	GLY	ILE	VAL	SER	HIS	PRO	GLY	GLU	ARG	PRO	THR	THR	THR	THR	LYS	LEU	PRO	ARG	TYR	VAL
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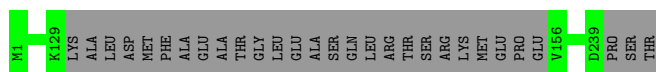
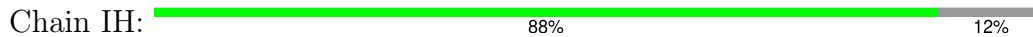
SER	THR	L123	T164	GLY	GLY	TYR	ARG	THR	THR	THR	GLN	ARG	SER	THR	ARG	ASP	GLY	GLN	PRO	PRO	LYS	TYR	PHE	THR	GLN	THR	ARG	VAL	VAL	ALA	PHE
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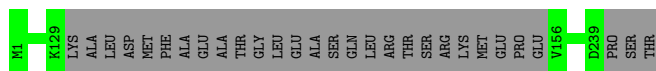
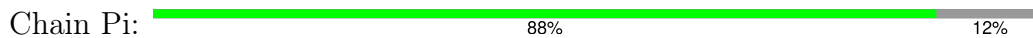
• Molecule 33: Flagellar associated protein



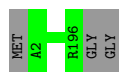
• Molecule 33: Flagellar associated protein



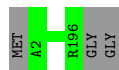
• Molecule 33: Flagellar associated protein



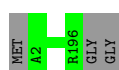
• Molecule 34: Dynein axonemal light chain 1



• Molecule 34: Dynein axonemal light chain 1

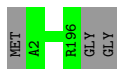


• Molecule 34: Dynein axonemal light chain 1



• Molecule 34: Dynein axonemal light chain 1





- Molecule 35: Outer dynein arm-docking complex subunit 1

Chain AB: 54% 46%

MET	ALA	GLN	GLY	THR	THR	LEU	LYS	LEU	PRO	PRO	ARG	LEU	ARG	THR	THR	LYS	GLU	GLU	THR	THR	GLY	THR	THR	LEU	GLY	CYS
VAL	SER	THR	LYS	ALA	ALA	THR	LYS	PRO	MET	ASP	THR	PRO	THR	THR	THR	THR	E84	A403	THR	THR	THR	THR	THR	THR	THR	
ALA	SER	ALA	GLY	ALA	ALA	ARG	ARG	GLY	SER	HIS	ALA	ASP	THR	HIS	THR	THR	GLY	ASN	GLY	GLY	ARG	ARG	GLY	ALA	PRO	
GLU	GLY	ALA	GLY	GLY	LEU	ALA	ALA	GLY	VAL	GLY	VAL	GLY	ASP	THR	THR	THR	D568	E601	THR	THR	THR	THR	THR	THR	THR	
GLY	LEU	SER	GLY	SER	SER	ARG	THR	LEU	VAL	GLY	VAL	GLY	THR	GLY	GLY	GLY	ALA	ASN	ALA	LEU	ALA	THR	ALA	LEU		
GLY	TYR	THR	GLY	SER	ASP	VAL	GLY	PRO	GLY	GLY	PRO	GLY	GLY	GLY	GLY	GLY	E84	A403	ASP	ASP	GLY	VAL	VAL	VAL	VAL	

- Molecule 35: Outer dynein arm-docking complex subunit 1

Chain AY: 54% 46%

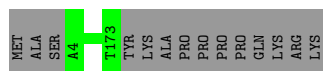
MET	ALA	GLN	GLY	THR	THR	LEU	LYS	LEU	PRO	PRO	ARG	LEU	ARG	THR	THR	LYS	GLU	GLU	THR	THR	GLY	THR	THR	LEU	GLY	CYS
VAL	SER	THR	LYS	ALA	ALA	THR	LYS	PRO	MET	ASP	THR	PRO	THR	THR	THR	THR	E84	A403	THR	THR	THR	THR	THR	THR	THR	
ALA	SER	ALA	GLY	ALA	ALA	ARG	ARG	GLY	SER	HIS	ALA	ASP	THR	HIS	THR	THR	GLY	ASN	GLY	GLY	ARG	ARG	GLY	ALA	PRO	
GLU	GLY	ALA	GLY	GLY	LEU	ALA	ALA	GLY	VAL	GLY	VAL	GLY	ASP	THR	THR	THR	D568	E601	THR	THR	THR	THR	THR	THR	THR	
GLY	LEU	SER	GLY	SER	SER	ARG	THR	LEU	VAL	GLY	VAL	GLY	THR	GLY	GLY	GLY	ALA	ASN	ALA	LEU	ALA	THR	ALA	LEU		
GLY	TYR	THR	GLY	SER	ASP	VAL	GLY	PRO	GLY	GLY	PRO	GLY	GLY	GLY	GLY	GLY	E84	A403	ASP	ASP	GLY	VAL	VAL	VAL	VAL	

- Molecule 35: Outer dynein arm-docking complex subunit 1

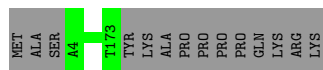
Chain Fb: 44% 56%

MET	ALA	GLN	GLY	THR	THR	LEU	LYS	LEU	PRO	PRO	ARG	LEU	ARG	THR	THR	LYS	GLU	GLU	THR	THR	GLY	THR	THR	LEU	GLY	CYS
VAL	SER	THR	LYS	ALA	ALA	THR	LYS	PRO	MET	ASP	THR	PRO	THR	THR	THR	THR	E84	A403	THR	THR	THR	THR	THR	THR	THR	
ALA	SER	ALA	GLY	ALA	ALA	ARG	ARG	GLY	SER	HIS	ALA	ASP	THR	HIS	THR	THR	GLY	ASN	GLY	GLY	ARG	ARG	GLY	ALA	PRO	
GLU	GLY	ALA	GLY	GLY	LEU	ALA	ALA	GLY	VAL	GLY	VAL	GLY	ASP	THR	THR	THR	D568	E601	THR	THR	THR	THR	THR	THR	THR	
GLY	LEU	SER	GLY	SER	SER	ARG	THR	LEU	VAL	GLY	VAL	GLY	THR	GLY	GLY	GLY	ALA	ASN	ALA	LEU	ALA	THR	ALA	LEU		
GLY	TYR	THR	GLY	SER	ASP	VAL	GLY	PRO	GLY	GLY	PRO	GLY	GLY	GLY	GLY	GLY	E84	A403	ASP	ASP	GLY	VAL	VAL	VAL	VAL	

• Molecule 36: Outer dynein arm-docking complex protein DC3



• Molecule 36: Outer dynein arm-docking complex protein DC3



• Molecule 37: Dynein gamma chain, flagellar outer arm



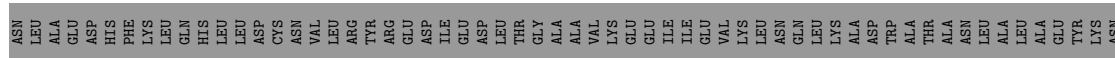
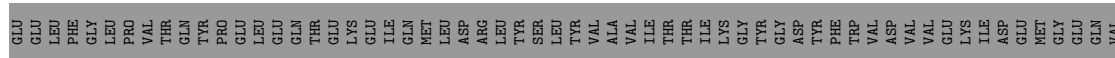
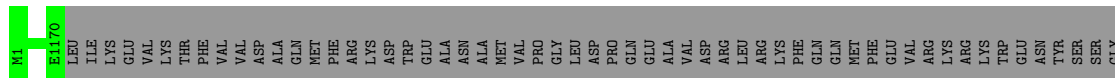
• Molecule 37: Dynein gamma chain, flagellar outer arm



• Molecule 37: Dynein gamma chain, flagellar outer arm



• Molecule 37: Dynein gamma chain, flagellar outer arm

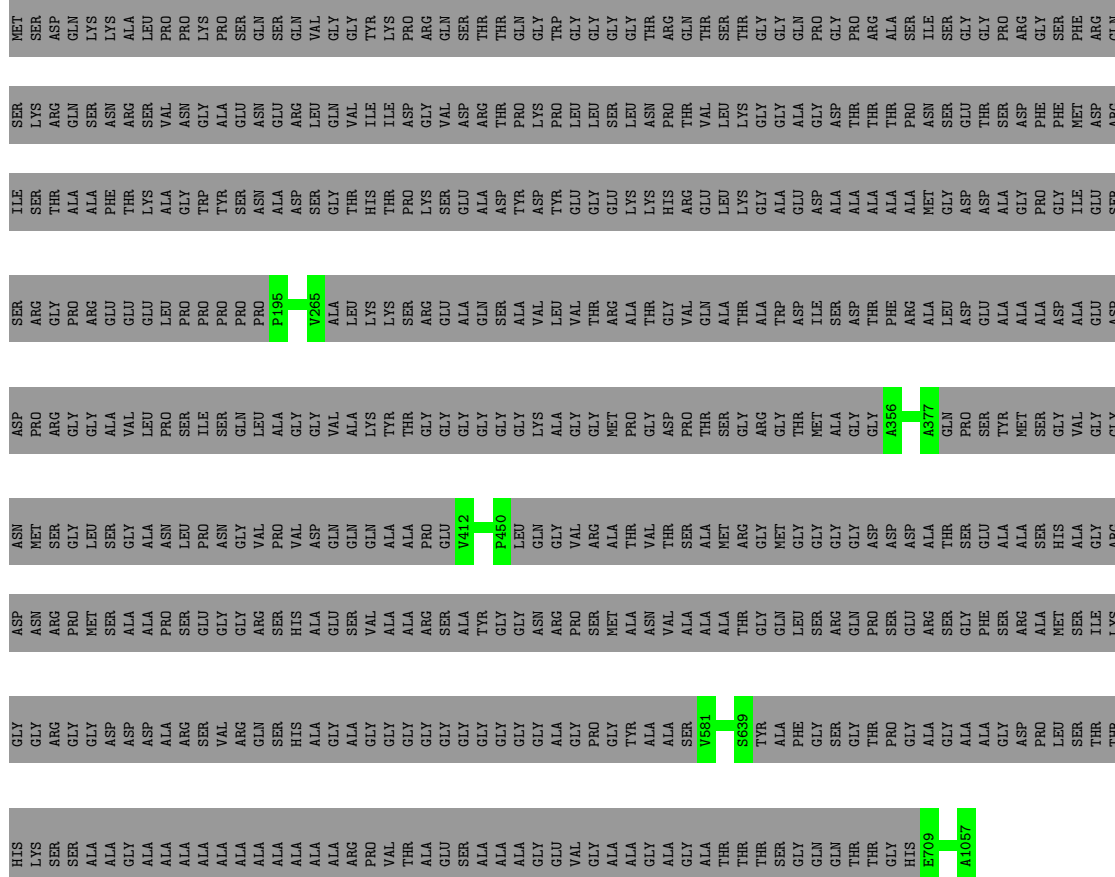


- Molecule 39: Axonemal inner arm I1 intermediate chain dynein IC138

Chain AF:

51%

49%

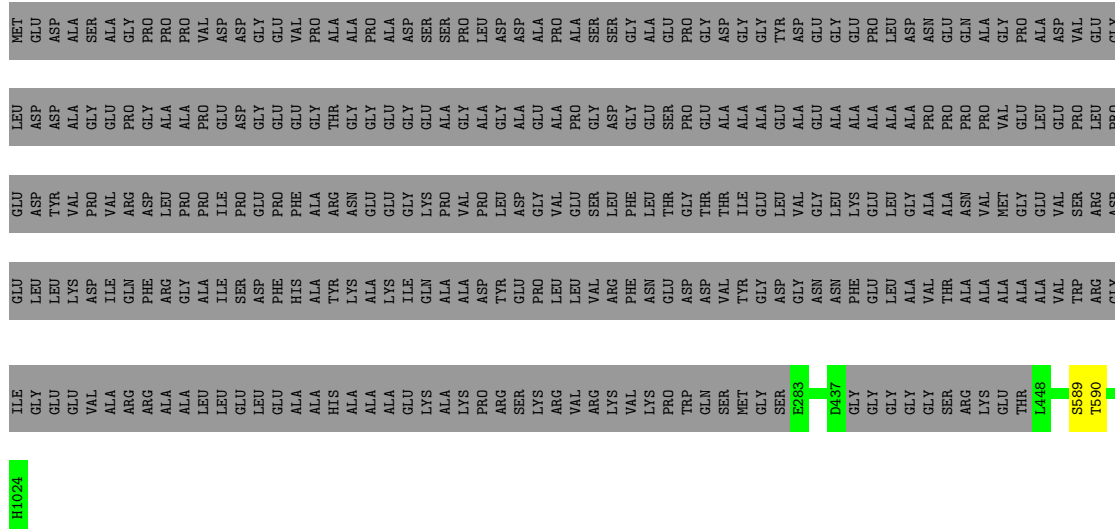


- Molecule 40: IC140

Chain AG:

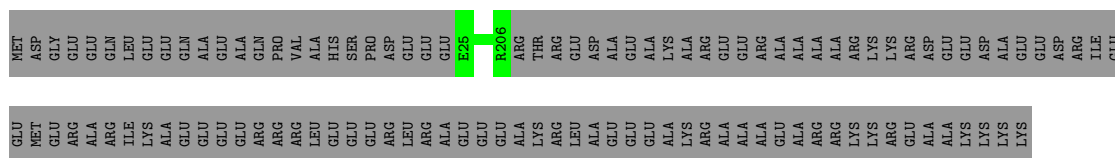
71%

29%



- Molecule 41: Axonemal inner arm dynein I1/f subunit

Chain AH:  62% 38%



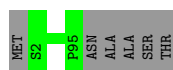
- Molecule 42: Dynein light chain roadblock LC7b

Chain AI:  100%

There are no outlier residues recorded for this chain.

- Molecule 42: Dynein light chain roadblock LC7b

Chain Bc:  94% 6%



- Molecule 42: Dynein light chain roadblock LC7b

Chain Bd:  94% 6%



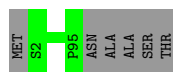
- Molecule 42: Dynein light chain roadblock LC7b

Chain GY:  94% 6%



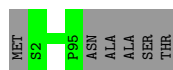
- Molecule 42: Dynein light chain roadblock LC7b

Chain LC:  94% 6%



- Molecule 42: Dynein light chain roadblock LC7b

Chain MA:  94% 6%



- Molecule 43: Dynein light chain roadblock LC7a

Chain AK: 100%

There are no outlier residues recorded for this chain.

- Molecule 43: Dynein light chain roadblock LC7a

Chain BQ: 98%



- Molecule 43: Dynein light chain roadblock LC7a

Chain BR: 98%



- Molecule 43: Dynein light chain roadblock LC7a

Chain GN: 98%



- Molecule 43: Dynein light chain roadblock LC7a

Chain L8: 98%



- Molecule 43: Dynein light chain roadblock LC7a

Chain LB: 98%



- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm

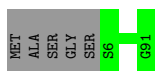
Chain AL: 100%

There are no outlier residues recorded for this chain.

- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm

Chain AM: 95%

5%



- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm

Chain AN: 100%

There are no outlier residues recorded for this chain.

- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm

Chain AO: 100%

There are no outlier residues recorded for this chain.

- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm

Chain AP: 100%

There are no outlier residues recorded for this chain.

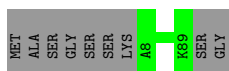
- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm

Chain AQ: 100%

There are no outlier residues recorded for this chain.

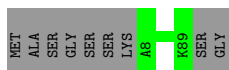
- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm

Chain Be: 90% 10%



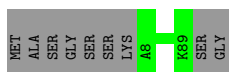
- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm

Chain Bp: 90% 10%



- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm

Chain Bq: 90% 10%



- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm

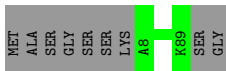
Chain Br: 90% 10%



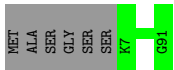
- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm



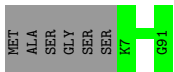
- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm



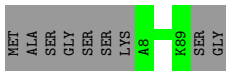
- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm



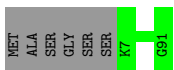
- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm



- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm

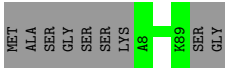


- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm

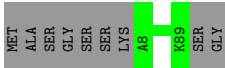


- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm

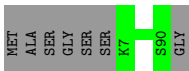




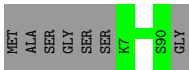
- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm



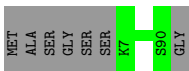
- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm



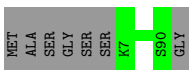
- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm



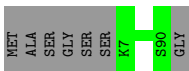
- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm



- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm



- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm



- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm





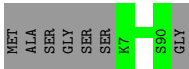
- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm

Chain It: 92% 8%



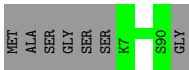
- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm

Chain Iu: 92% 8%



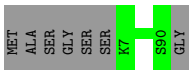
- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm

Chain KM: 92% 8%



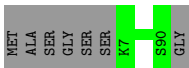
- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm

Chain KN: 92% 8%



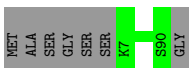
- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm

Chain KO: 92% 8%



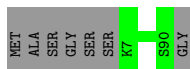
- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm

Chain KP: 92% 8%

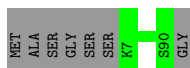


- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm

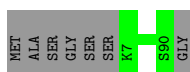
Chain KQ: 92% 8%



- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm



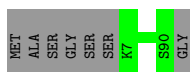
- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm



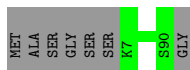
- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm



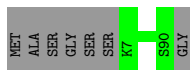
- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm



- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm

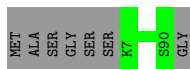


- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm

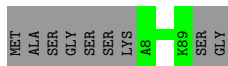


- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm

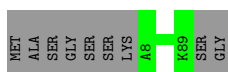




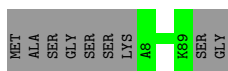
- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm



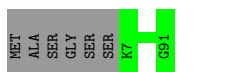
- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm



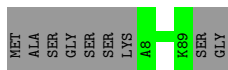
- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm



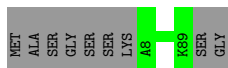
- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm



- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm

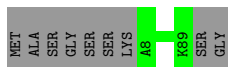


- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm



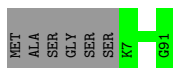
- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm





- Molecule 44: Dynein 8 kDa light chain, flagellar outer arm

Chain ME: 93% 7%



- Molecule 45: Dynein light chain Tctex1

Chain AR: 100%

There are no outlier residues recorded for this chain.

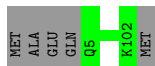
- Molecule 46: Inner arm dynein light chain

Chain AS: 100%

There are no outlier residues recorded for this chain.

- Molecule 47: Dynein light chain 10

Chain AU: 95% 5%



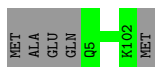
- Molecule 47: Dynein light chain 10

Chain Ca: 95% 5%



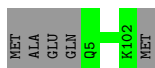
- Molecule 47: Dynein light chain 10

Chain FN: 95% 5%

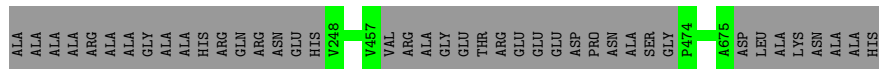
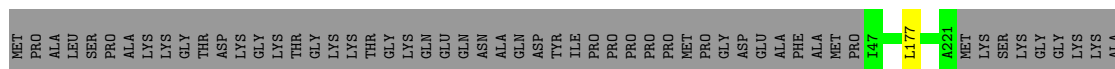


- Molecule 47: Dynein light chain 10


Chain LM: 95% 5%

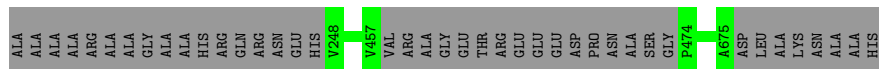
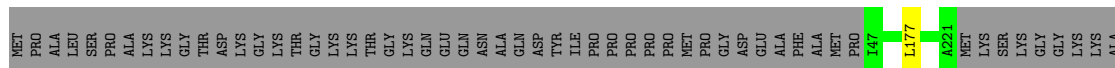


- Molecule 47: Dynein light chain 10




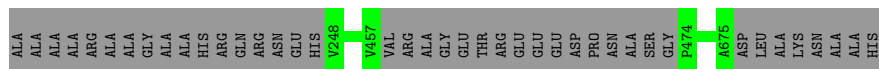
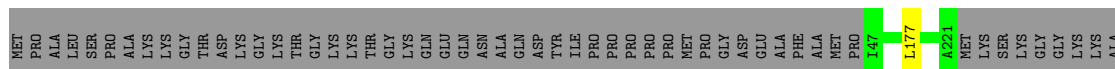
- Molecule 50: Dynein, 78 kDa intermediate chain, flagellar outer arm

Chain Kt:  86% 14%



- Molecule 50: Dynein, 78 kDa intermediate chain, flagellar outer arm

Chain Lp:  86% 14%



- Molecule 51: WD_REPEATS_REGION domain-containing protein

Chain Ac:  94% 6%



- Molecule 51: WD_REPEATS_REGION domain-containing protein

Chain Aq:  94% 6%



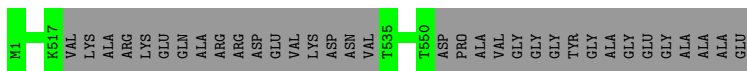
- Molecule 51: WD_REPEATS_REGION domain-containing protein

Chain Fz:  94% 6%



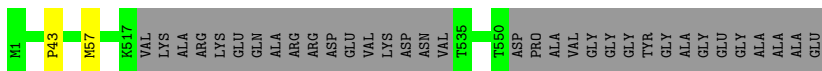
- Molecule 51: WD_REPEATS_REGION domain-containing protein

Chain Ku:  94% 6%



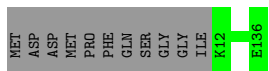
- Molecule 51: WD_REPEATS_REGION domain-containing protein

Chain Lq:  94% 6%



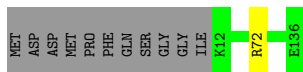
- Molecule 52: Flagellar outer dynein arm light chain 2

Chain Ar:  92% 8%



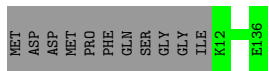
- Molecule 52: Flagellar outer dynein arm light chain 2

Chain As:  91% 8%



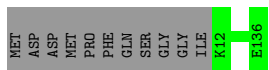
- Molecule 52: Flagellar outer dynein arm light chain 2

Chain GA:  92% 8%



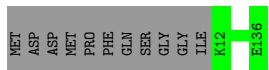
- Molecule 52: Flagellar outer dynein arm light chain 2

Chain Kz:  92% 8%




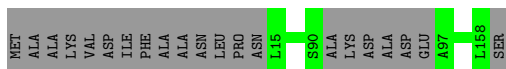
- Molecule 52: Flagellar outer dynein arm light chain 2

Chain Lr:  92% 8%




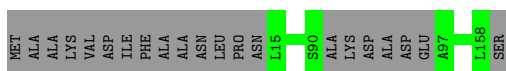
- Molecule 53: Dynein 18 kDa light chain, flagellar outer arm

Chain BC:  87% 13%



- Molecule 53: Dynein 18 kDa light chain, flagellar outer arm

Chain BD:  87% 13%




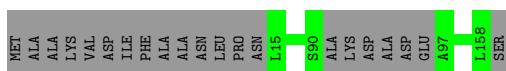
- Molecule 53: Dynein 18 kDa light chain, flagellar outer arm

Chain GL:  87% 13%




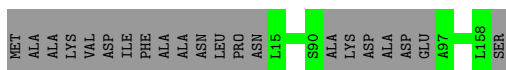
- Molecule 53: Dynein 18 kDa light chain, flagellar outer arm

Chain K2:  87% 13%



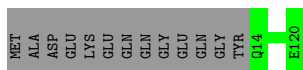
- Molecule 53: Dynein 18 kDa light chain, flagellar outer arm

Chain Lt:  87% 13%



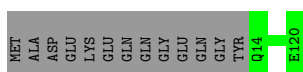
- Molecule 54: Dynein 11 kDa light chain, flagellar outer arm

Chain BE:  89% 11%



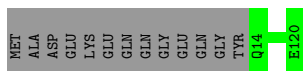
- Molecule 54: Dynein 11 kDa light chain, flagellar outer arm

Chain BP:  89% 11%



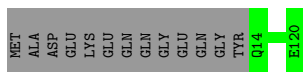
- Molecule 54: Dynein 11 kDa light chain, flagellar outer arm

Chain GM:  89% 11%



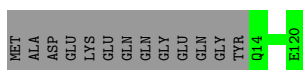
- Molecule 54: Dynein 11 kDa light chain, flagellar outer arm

Chain LA:  89% 11%



- Molecule 54: Dynein 11 kDa light chain, flagellar outer arm

Chain Lz:  89% 11%



- Molecule 55: Dynein light chain 9

Chain CP:  100%

There are no outlier residues recorded for this chain.

- Molecule 55: Dynein light chain 9

Chain CQ:  100%

There are no outlier residues recorded for this chain.

- Molecule 55: Dynein light chain 9

Chain FM:  100%

There are no outlier residues recorded for this chain.

- Molecule 55: Dynein light chain 9

Chain LL:  100%

There are no outlier residues recorded for this chain.

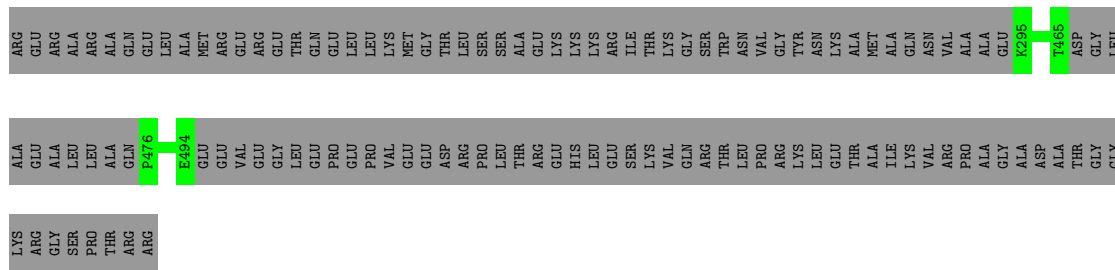
- Molecule 55: Dynein light chain 9

Chain MK:  100%

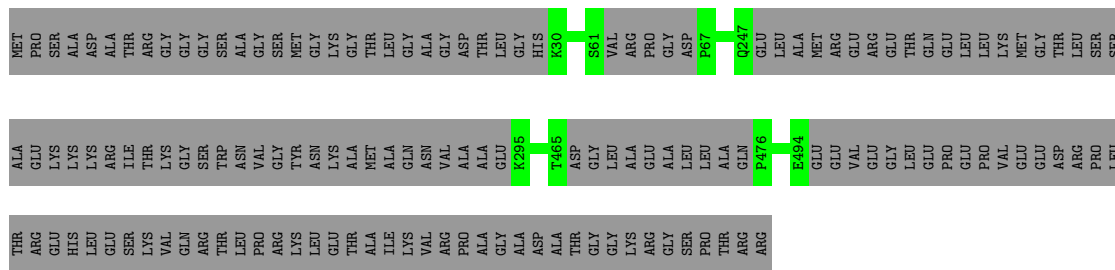
There are no outlier residues recorded for this chain.

- Molecule 56: Outer dynein arm protein 1

Chain Cc:  73% 27%



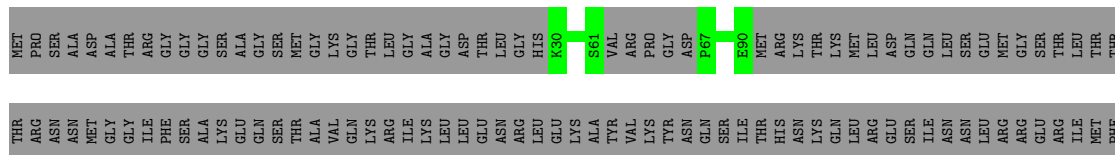
• Molecule 56: Outer dynein arm protein 1



• Molecule 56: Outer dynein arm protein 1




• Molecule 56: Outer dynein arm protein 1

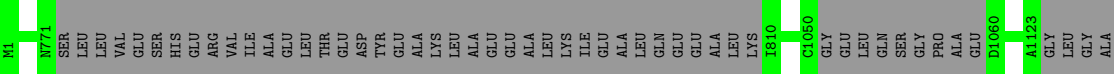


GLN ARG
PRO GLY
GLY SER
LEU LEU
ALA GLY
GLY GLY
GLY MET
GLY MET
ASP ASP
SER SER
GLY GLY
VAL VAL
GLY VAL
ASN ASN
SER SER
GLY TYR
ALA ALA
ALA ALA
ILE ILE
ALA ALA
SER SER
MET MET
GLY PRO
VAL VAL
ARG ARG
GLU GLU
ASP ASP

GLY
GLU
LEU
GLY
GLY
LEU
LEU
GLY
LEU
LEU
ALA

- Molecule 59: WD_REPEATS_REGION domain-containing protein

Chain Cq:  82% 18%

M1  M1 N771 I810 C1060 D1060 A1123

VAL GLY
LEU LEU
LYS LYS
PRO PRO
SER ARG
GLY SER
ALA ALA
ASN ASN
GLY GLY
PRO PRO
ARG ARG
ILE ILE
GLY GLY

VAL PRO
ARG ARG
PRO PRO
ILE ILE
SER ARG
GLU GLY
MET MET
GLY VAL
VAL VAL
PHE PHE
SER SER
GLY ARG
ALA ALA
PRO PRO
TYR TYR

GLY SER
ALA ALA
GLY GLY
GLY GLY
MET MET
ARG ARG
ASP ASP
SER SER
GLY GLY
VAL VAL
VAL VAL
ASN ASN
SER SER
GLY GLY
ALA ALA
VAL VAL
SER SER
GLY GLY
PRO PRO
SER SER
TYR TYR
VAL VAL

GLU
GLY
GLU
LEU
GLY
GLU
LEU
ALA

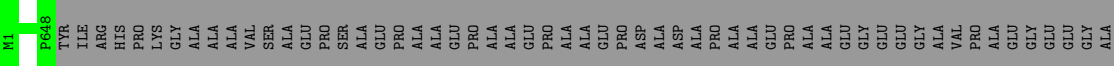
- Molecule 60: Inner-arm dynein f/I1 light chain

Chain D9:  100%

There are no outlier residues recorded for this chain.

- Molecule 61: Heavy chain alpha

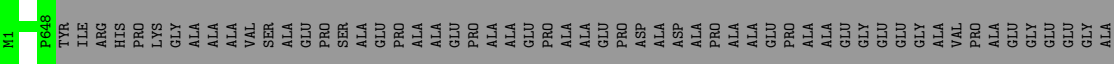
Chain DA:  98%

M1  M1 P648

GLU GLY
ALA TYR
SER SER
GLY ARG
ARG ARG
PRO PRO
VAL VAL
SER SER
SER SER
GLY GLY
ALA ALA
ALA ALA
VAL VAL
SER SER
GLY GLY
VAL VAL
ALA ALA
ALA ALA
ALA ALA
VAL VAL
SER SER
GLY GLY
VAL VAL
SER SER
VAL VAL
GLY GLY
VAL VAL
SER SER
ALA ALA
ALA ALA
ASN ASN
SER SER
HIS HIS
ASP ASP
ALA ALA
PRO PRO
ALA ALA
ALA ALA
H3310
P1622
H3310
P3763
A4153
D4500
LEU ALA
ALA GLY

- Molecule 61: Heavy chain alpha

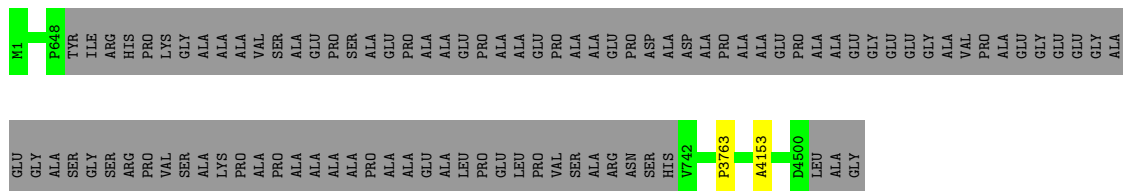
Chain DP:  98%

M1  M1 P648

GLU GLY
ALA ALA
SER SER
GLY ARG
ARG ARG
PRO PRO
VAL VAL
SER SER
SER SER
GLY GLY
ALA ALA
ALA ALA
VAL VAL
SER SER
GLY GLY
VAL VAL
ALA ALA
ALA ALA
ALA ALA
VAL VAL
SER SER
GLY GLY
VAL VAL
SER SER
VAL VAL
GLY GLY
VAL VAL
SER SER
ALA ALA
ALA ALA
ASN ASN
SER SER
HIS HIS
ASP ASP
ALA ALA
PRO PRO
ALA ALA
ALA ALA
H3310
P1622
H3310
P3763
A4153
D4500
LEU ALA
ALA GLY

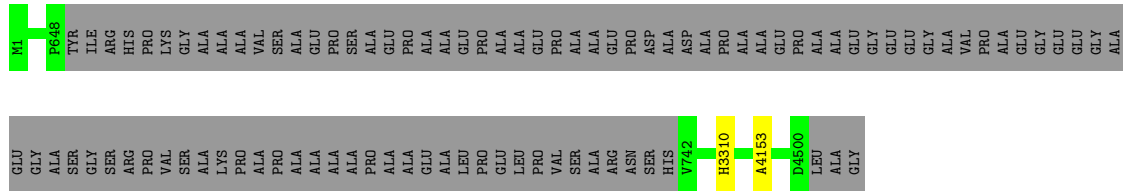
- Molecule 61: Heavy chain alpha

Chain Gl: 98%



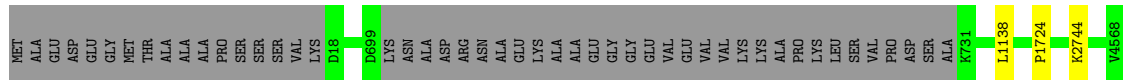
- Molecule 61: Heavy chain alpha

Chain Lm: 98%



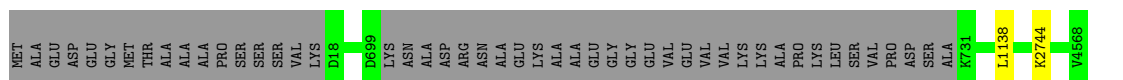
- Molecule 62: Flagellar outer dynein arm heavy chain beta

Chain DB: 99%



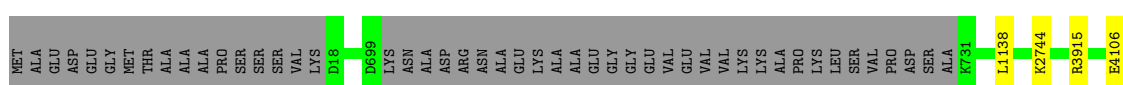
- Molecule 62: Flagellar outer dynein arm heavy chain beta

Chain Db: 99%



- Molecule 62: Flagellar outer dynein arm heavy chain beta

Chain Gt: 99%



- Molecule 62: Flagellar outer dynein arm heavy chain beta

Chain Kr: 17% 83%

- Molecule 64: Dynein 16 kDa light chain, flagellar outer arm

Chain Gu:  100%

There are no outlier residues recorded for this chain.

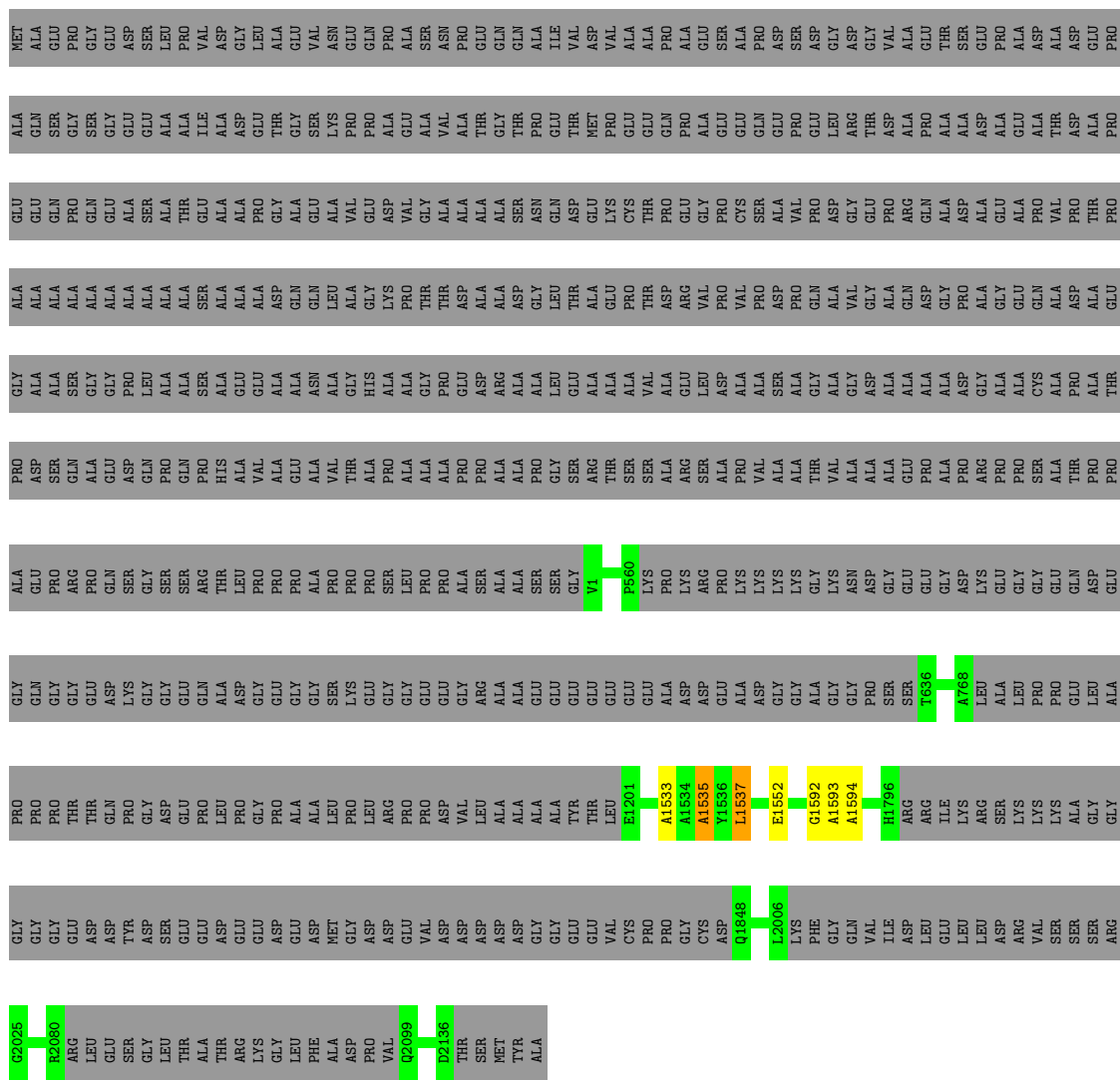
- Molecule 64: Dynein 16 kDa light chain, flagellar outer arm

Chain Ls:  100%

There are no outlier residues recorded for this chain.

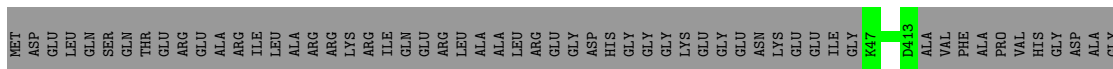
- Molecule 65: FAP44

Chain Do:  72% 28%

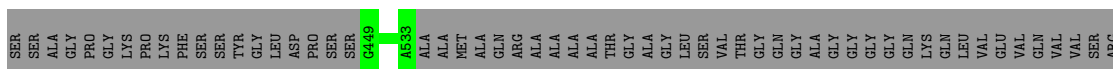
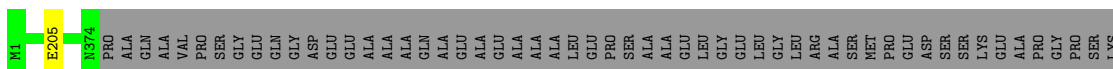
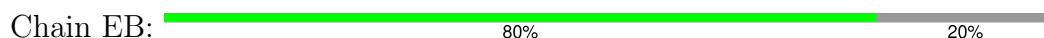


- Molecule 65: FAP44

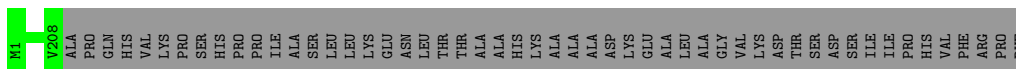
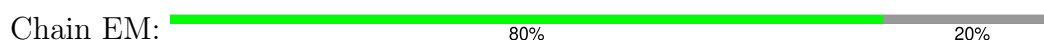
Chain MP:  96%



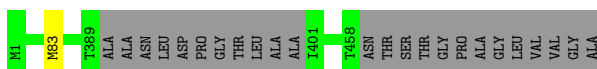
- Molecule 68: Dynein regulatory complex subunit 2



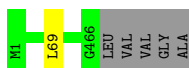
- Molecule 69: Dynein regulatory complex subunit 6



- Molecule 70: Dynein regulatory complex subunit 4



- Molecule 70: Dynein regulatory complex subunit 4



- Molecule 71: Dynein regulatory complex protein 8



There are no outlier residues recorded for this chain.

- Molecule 71: Dynein regulatory complex protein 8

Chain HF:  100%

There are no outlier residues recorded for this chain.

- Molecule 71: Dynein regulatory complex protein 8

Chain HM:  100%


There are no outlier residues recorded for this chain.

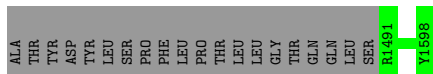
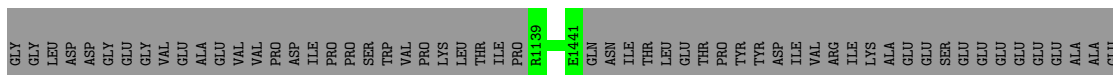
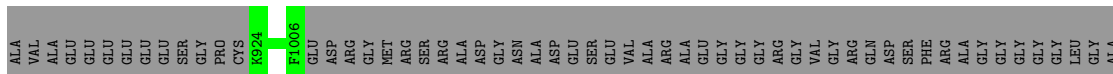
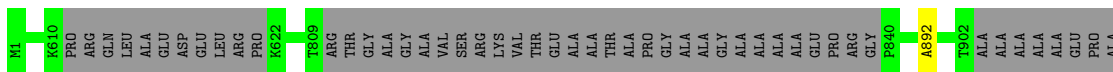
- Molecule 72: ATPase AAA-type core domain-containing protein

Chain Ea:  100%



- Molecule 73: Flagellar associated protein

Chain Eb:  85% 15%



- Molecule 74: Dynein regulatory complex subunit 3

Chain Em:  100%



- Molecule 75: Dynein regulatory complex protein 9

Chain En:  100%



- Molecule 76: Dynein regulatory complex protein 10

Chain Ey:  99%




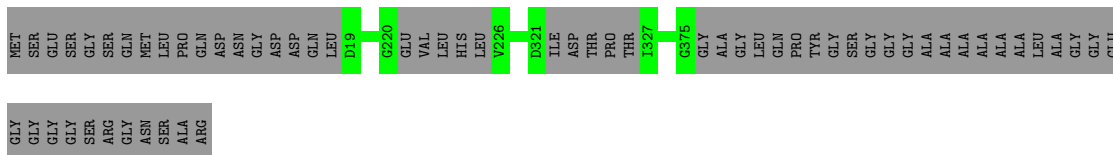
- Molecule 77: DRC5

Chain Ez:  100%



- Molecule 78: DUF4201 domain-containing protein

Chain F4:  85%



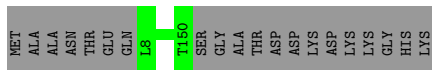
- Molecule 79: Calmodulin

Chain FO:  100%

There are no outlier residues recorded for this chain.

- Molecule 79: Calmodulin

Chain JC:  88%



- Molecule 80: Caltractin

Chain FZ:  100%

There are no outlier residues recorded for this chain.

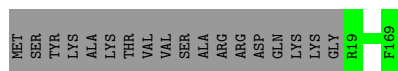
- Molecule 80: Caltractin

Chain Md:  100%

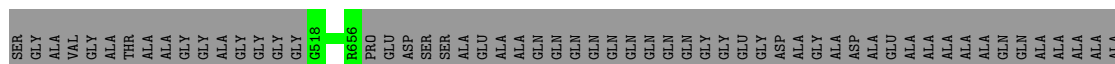
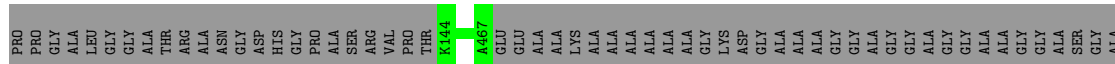
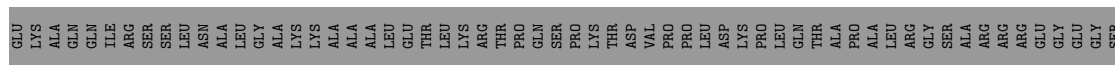
There are no outlier residues recorded for this chain.

- Molecule 80: Caltractin

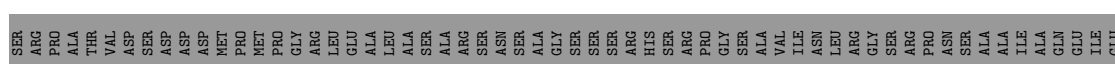
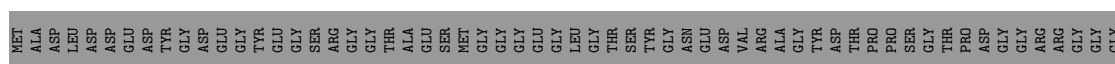
Chain Ml:  89%



• Molecule 81: AAA+ ATPase domain-containing protein



• Molecule 82: DUF4201 domain-containing protein

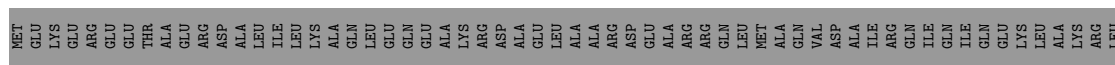
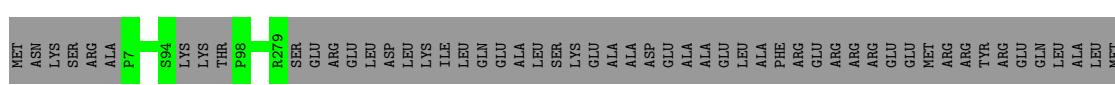


• Molecule 83: Cilia- and flagella-associated protein 299



There are no outlier residues recorded for this chain.

• Molecule 84: Cilia- and flagella-associated protein 53



- Molecule 85: FAP210

Chain Gm:  69% 31%

MET ALA THR TYR SER VAL ILE SER VAL ALA MET ALA LEU ASP ARG ILE ARG ASP LYS VAL ALA PRO VAL GLY MET ASP THR A210 A339 GLN ALA LYS ALA LEU GLU ALA LEU GLU ALA LEU TYR LEU SER ALA TRP SER THR LYS GLN LEU ALA ASP GLU GLU ASP

LEU LYS ARG ILE ALA VAL GLY LYS GLN MET ALA PHE GLN LEU ARG LYS ALA ILE ILE ARG ALA ASP MET ALA LEU GLU ALA LEU GLU ALA LEU TYR LEU SER ALA TRP SER THR LYS GLN LEU ALA ASP GLU GLU ASP

TYR ARG GLY PRO VAL PRO MET LEU HIS ARG LYS THR ASN LEU THR MET ARG

- Molecule 85: FAP210

Chain Gn:  52% 48%

MET ALA THR TYR SER VAL ILE SER VAL ALA MET ALA LEU ASP ARG ILE ARG ASP LYS VAL ALA PRO VAL GLY MET ASP THR PHE ARG ILE SER GLN ALA LEU GLU ALA LEU TYR LEU SER ASP THR VAL GLN LEU ALA TRP SER THR LYS GLN LEU ALA ASP GLU GLU ASP

GLN GLU ARG GLN ALA LEU ARG VAL VAL ILE ARG ALA GLY MET ASP THR PHE ARG ILE SER GLN ALA LEU GLU ALA LEU TYR LEU SER ASP THR VAL GLN LEU ALA TRP SER THR LYS GLN LEU ALA ASP GLU GLU ASP

GLU GLN LEU LYS ILE ALA VAL LYS LEU ARG ALA LEU GLU ALA LEU TYR LEU SER ASP THR VAL GLN LEU ALA TRP SER THR LYS GLN LEU ALA ASP GLU GLU ASP

LEU LYS ALA ILE LEU GLY GLU ARG ALA ALA ASP ARG THR LYS THR LEU ARG ARG ALA LEU GLU ALA LEU TYR LEU SER ASP THR VAL GLN LEU ALA TRP SER THR LYS GLN LEU ALA ASP GLU GLU ASP

- Molecule 86: Actin

Chain Gh:  100%

There are no outlier residues recorded for this chain.

- Molecule 86: Actin

Chain JD:  100%

There are no outlier residues recorded for this chain.

- Molecule 86: Actin

Chain Km:  98%

MET ASP GLY VAL S8 L263 E377

- Molecule 86: Actin

Chain Ld:  100%

There are no outlier residues recorded for this chain.

- Molecule 86: Actin

Chain Mc:  100%

There are no outlier residues recorded for this chain.

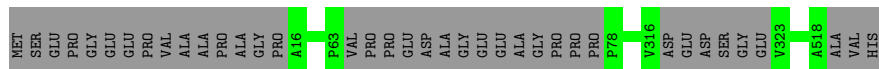
- Molecule 86: Actin

Chain Mk:  100%

There are no outlier residues recorded for this chain.

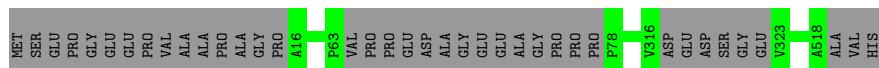
- Molecule 87: Flagellar radial spoke protein 5

Chain H0:  93%  7%



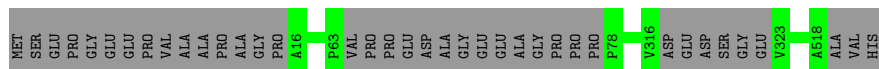
- Molecule 87: Flagellar radial spoke protein 5

Chain Hz:  93%  7%



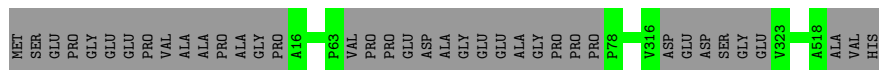
- Molecule 87: Flagellar radial spoke protein 5

Chain JT:  93%  7%



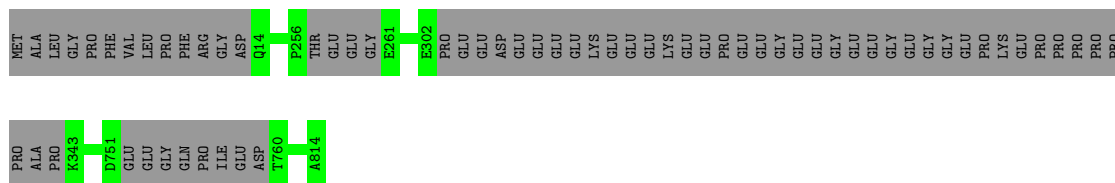
- Molecule 87: Flagellar radial spoke protein 5

Chain JZ:  93%  7%

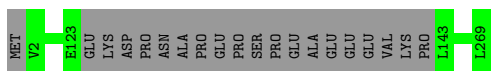


- Molecule 88: Flagellar radial spoke protein 1

Chain HX:  92%  8%

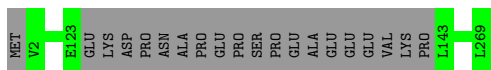


- Molecule 88: Flagellar radial spoke protein 1



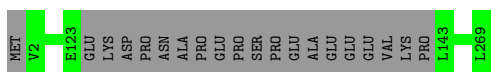
- Molecule 94: Radial spoke protein 9

Chain Jc: 93% 7%



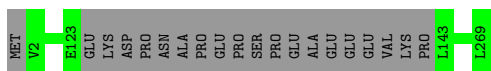
- Molecule 94: Radial spoke protein 9

Chain Jd: 93% 7%



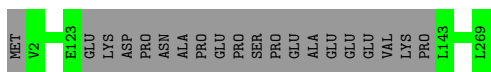
- Molecule 94: Radial spoke protein 9

Chain Je: 93% 7%



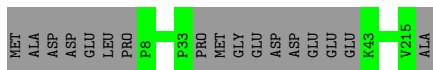
- Molecule 94: Radial spoke protein 9

Chain Jf: 93% 7%



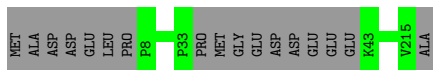
- Molecule 95: Radial spoke protein 10

Chain IO: 92% 8%



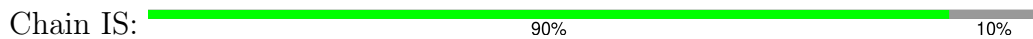
- Molecule 95: Radial spoke protein 10

Chain IP: 92% 8%



- Molecule 95: Radial spoke protein 10

Chain Jg: 92% 8%



MET	ASP	PHE	GLU	SER	ASN	GLY	ALA	MET	MET	GLU	TYR	CYS	LYS	SER	THR	G17	P179	ASN	SER
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	-----	-----

- Molecule 97: Peptidyl-prolyl cis-trans isomerase



MET	ASP	PHE	GLU	SER	ASN	GLY	ALA	MET	MET	GLU	TYR	CYS	LYS	SER	THR	G17	P179	ASN	SER
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	-----	-----

- Molecule 98: Radial spoke protein 14



MET	D2	G380	ALA	PRO	PRO	ILE	GLU	GLU
-----	----	------	-----	-----	-----	-----	-----	-----

- Molecule 99: Radial spoke protein 16



MET	THR	ARG	GLY	LEU	ASP	TYR	TYR	GLU	VAL	MET	PRO	GLY	LEU	THR	ARG	ALA	ASN	ASP	ASP	ILE	ASP	GLY	ASP	ILE	ILE	ILE	ARG	ARG	ARG	ALA	TYR	TYR	ARG	LEU	LEU	ALA	LYS	TYR	HIS	PRO	PRO	GLU	GLU	ASP	ASP	ILE	ASN	LYS	LYS	ASP	ALA	ASP	GLY	ALA	GLY	ALA	ALA	GLY	GLY	ARG	ASP	PHE	PHE	PHE	GLY	THR	THR	ALA	ASN	PRO	TYR	GLU	ALA	ALA	TYR	GLU	LEU	GLU	VAL	LEU	ALA	LEU	CYS	ASP	ASP	PRO	ASN
LYS	THR	LYS	GLY	PHE	GLY	THR	ASP	LEU	TYR	GLY	VAL	GLY	ALA	LEU	LYS	ASP	ASP	ILE	ILE	ASP	GLY	ASP	GLY	ASN	ASN	ILE	GLY	GLY	GLY	LEU	LYS	GLY	PRO	MET	TYR	ARG	PHE	ASN	TYR	PRO	GLU	GLU	SER	SER	PRO	LYS	LYS	ALA	VAL	VAL	PHE	GLY	GLY	ARG	GLY	ARG	PHE	PHE	PHE	GLY	THR	THR	ALA	ASN	PRO	TYR	GLU	ALA	ALA	TYR	GLU	LEU	GLU	VAL	LEU	ALA	LEU	CYS	ASP	ASP	PRO	ASN					

GLN	PHE	GLU	SER	MET	THR	SER	GLU	GLU	ALA	PRO	ALA	ALA	ARG	G134	R346
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------

- Molecule 99: Radial spoke protein 16



MET	THR	ARG	GLY	LEU	ASP	TYR	TYR	GLU	VAL	MET	PRO	GLY	LEU	THR	ARG	ALA	ASN	ASP	ASP	ILE	ASP	GLY	ASP	ILE	ILE	ILE	ARG	ARG	ARG	ALA	TYR	TYR	ARG	LEU	LEU	ALA	LYS	TYR	HIS	PRO	PRO	GLU	GLU	ASP	ASP	ILE	ASN	LYS	LYS	ASP	ALA	ASP	GLY	ALA	GLY	ALA	ALA	GLY	ARG	ASP	PHE	PHE	PHE	GLY	THR	THR	ALA	ASN	PRO	TYR	GLU	ALA	ALA	TYR	GLU	LEU	GLU	VAL	LEU	ALA	LEU	CYS	ASP	ASP	PRO	ASN
LYS	THR	LYS	GLY	PHE	GLY	THR	ASP	LEU	TYR	GLY	VAL	GLY	ALA	LEU	LYS	ASP	ASP	ILE	ILE	ASP	GLY	ASP	GLY	ASN	ASN	ILE	GLY	GLY	GLY	LEU	LYS	GLY	PRO	MET	TYR	ARG	PHE	ASN	TYR	PRO	GLU	GLU	SER	SER	PRO	LYS	LYS	ALA	VAL	VAL	PHE	GLY	GLY	ARG	GLY	ARG	PHE	PHE	PHE	GLY	THR	THR	ALA	ASN	PRO	TYR	GLU	ALA	ALA	TYR	GLU	LEU	GLU	VAL	LEU	ALA	LEU	CYS	ASP	ASP	PRO	ASN				

GLN	PHE	GLU	SER	MET	THR	SER	GLU	GLU	ALA	PRO	ALA	ALA	ARG	G134	R346
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- Molecule 99: Radial spoke protein 16



MET	THR	ARG	GLY	LEU	D6	T69	GLY	GLU	ASP	ASP	ALA	LEU	LYS	ASP	GLY	ILE	SER	SER	ASP	GLY	ASN	GLY	GLY	GLY	LEU	LEU	GLY	LYS	GLY	PRO	MET	TYR	ARG	PHE	ASN	PRO	PRO	GLU	GLU	GLU	SER	SER	PRO	PRO	LYS	LYS	ALA	VAL	VAL	PHE	GLU	GLU	ARG	ARG	PHE	PHE	GLY	THR	THR	ALA	ASN	PRO	TYR	GLU	ALA	ALA	TYR	GLU	LEU	GLU	VAL	LEU	ALA	LEU	CYS	SER	ASN	ASN	GLN
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- Molecule 101: Nucleoside diphosphate kinase 6



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- Molecule 102: Cytochrome b5 heme-binding domain-containing protein



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R175
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GLY
ASP
T181
L227
THR
VAL
ALA
ALA

- Molecule 102: Cytochrome b5 heme-binding domain-containing protein



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GLY
PRO
LEU
LEU
ARG
R10
R175
R175
ASP
PRO
ASN
GLY
ASP
T181
L227
THR
VAL
ALA
ALA

- Molecule 103: FAP385



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GLY
SER
ALA
ALA
Q17
R66
SER
GLY
THR
THR
ALA
ALA

- Molecule 103: FAP385



MET SER SER SER GLN TYR SER SER GLU SER ARG ARG LEU PRO PRO LEU LEU HIS HIS SER SER ALA ALA **Q17** **R66** SER GLY THR ALA

• Molecule 103: FAP385



MET SER SER SER GLN TYR SER SER GLU SER ARG ARG LEU PRO PRO LEU LEU HIS HIS SER SER ALA ALA **Q17** **R66** SER GLY THR ALA

• Molecule 103: FAP385



MET SER SER SER GLN TYR SER SER GLU SER ARG ARG LEU PRO PRO LEU LEU HIS HIS SER SER ALA ALA **Q17** **R66** SER GLY THR ALA

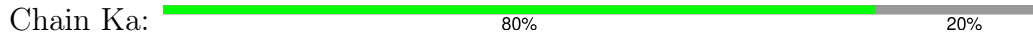
• Molecule 104: FAP207



MET PRO PRO ASN ILE PRO GLY THR LEU LEU THR ALA ALA GLU SER LEU ARG ARG LYS GLN GLY ASP HIS **Q31** **F214** HIS ALA PRO PRO PRO PRO PRO THR THR SER ASP GLN LYS TRP LEU TRP LYS SER THR THR LYS THR

MET GLU ALA SER ASN GLU ALA THR ALA ALA ALA ALA ARG GLY LEU

• Molecule 104: FAP207



MET PRO PRO ILE PRO GLY THR LEU LEU **A11** **F214** HIS ALA PRO PRO PRO PRO PRO THR PRO PRO THR TYR SER LEU LEU LEU LEU LEU LEU LEU LEU LEU LEU LEU LEU

• Molecule 105: FAP253



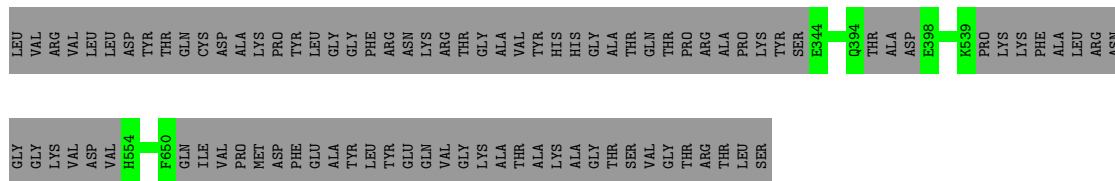
MET SER ASP PRO GLU GLU GLN GLY THR THR ARG ARG LEU PRO PRO LEU

GLN PRO ASP VAL ILE SER SER THR THR TYR THR THR ARG ILE ASP LEU PRO ARG ALA ASP ALA ARG LEU

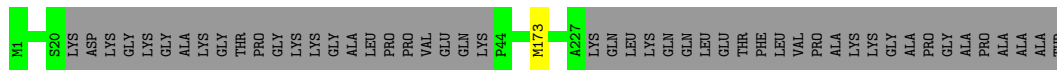
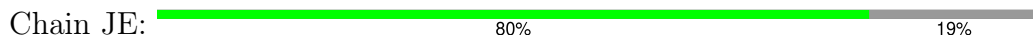
LEU GLU PRO GLU ARG LEU PRO PRO GLY ASP PRO PRO GLN LEU

GLY SER GLY HIS VAL ASN LEU LEU ALA PRO SER VAL GLY LEU

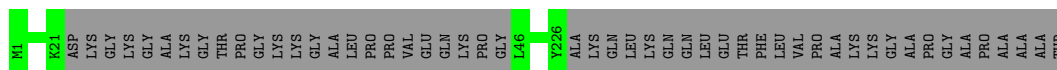
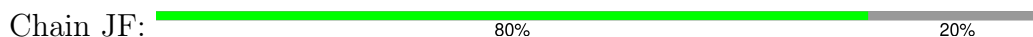
ARG PRO SER THR SER GLN VAL SER VAL SER ARG LEU



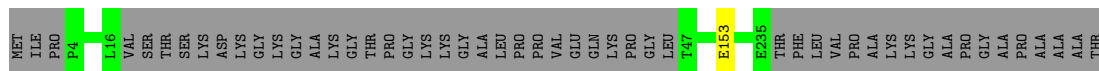
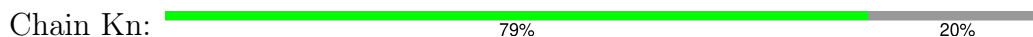
- Molecule 106: 28 kDa inner dynein arm light chain, axonemal



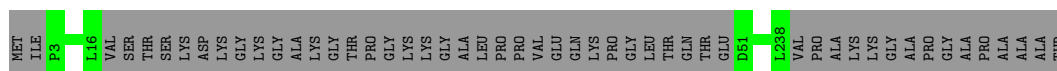
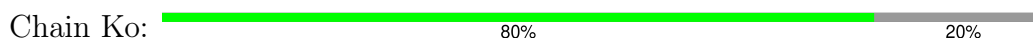
- Molecule 106: 28 kDa inner dynein arm light chain, axonemal



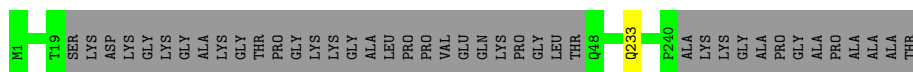
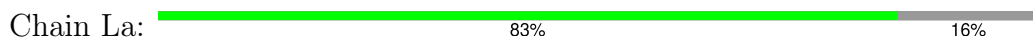
- Molecule 106: 28 kDa inner dynein arm light chain, axonemal



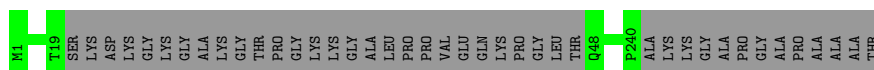
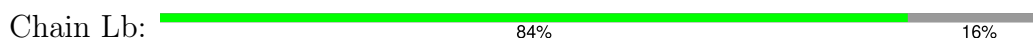
- Molecule 106: 28 kDa inner dynein arm light chain, axonemal



- Molecule 106: 28 kDa inner dynein arm light chain, axonemal



- Molecule 106: 28 kDa inner dynein arm light chain, axonemal



- Molecule 107: AAA+ ATPase domain-containing protein

Chain JG:

93%

7%

MET	ASP	TRP	ASP	ASP	SER	SER	VAL	ALA	GLY	THR	THR	ALA	ARG	PRO	GLY	LYS	GLN	THR	LEU	GLN	SER	GLN	VAL	VAL	ALA	LEU	PRO	LYS	LEU	LEU	PHE	GLU	SER	ALA	LEU	SER	LEU	VAL	GLY	ARG	SER	VAL	LYS	ALA	GLU	VAL	GLN			
SER	ARG	PRO	PRO	LEU	PRO	GLY	LEU	LEU	PRO	PHE	THR	LEU	LEU	PRO	PRO	LYS	PRO	GLY	TYR	MET	LEU	GLY	THR	ASN	GLY	GLY	VAL	PRO	GLY	ILE	LEU	ALA	THR	ALA	HIS	SER	LEU	LEU	ALA	LEU	ASP	ASP	GLY	SER	VAL	THR	THR	ARG	THR	GLN
GLY	PRO	PRO	LEU	THR	ALA	THR	THR	PRO	VAL	ARG	ARG	VAL	THR	GLY	THR	TYR	ASN	THR	ARG	LEU	ARG	PHE	ASP	PRO	ASP	GLY	VAL	PHE	PRO	SER	ARG	ALA	LEU	ALA	TYR	PHE	GLY	ALA	ALA	GLY	SER	THR	THR	GLY	ALA	VAL	GLN			
ALA	ASP	PRO	ALA	HIS	PRO	LEU	GLY	TRP	VAL	VAL	ALA	ALA	GLY	GLU	THR	GLN	MET	GLY	THR	ARG	LEU	ALA	ARG	ALA	ALA	ALA	ALA	PRO	GLY	ALA	THR	LEU	ALA	ALA	GLY	GLY	GLY	THR	THR	ALA	GLY	ALA	GLU	VAL	GLN	HIS	HIS			
ALA	ASN	PHE	GLY	LEU	S386	1432	ARG	ALA	TYR	GLY	PRO	SER	ASP	ALA	ASP	ALA	GLY	GLY	GLY	GLY	GLY	ASP	PRO	ALA	ALA	VAL	VAL	PRO	THR	THR	ALA	ALA	ALA	GLY	THR	HIS	PRO	PRO	GLY	GLY	ALA	ALA	TRP	PRO	ALA	ASP	P461	G790		
D791	L792	Y905	K3392	F4051	L4103	ALA	ASP																																											

- Molecule 108: UNKNOWN

Chain KC:

100%

There are no outlier residues recorded for this chain.

- Molecule 109: Radial spoke protein 15

Chain KZ:

99%

MET	GLN	VAL	PHE	A5	E331
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- Molecule 110: Radial spike protein 8

Chain Kb:

81%

19%

MET	GLN	SER	HIS	SER	SER	ARG	HIS	VAL	VAL	VAL	SER	GLY	HIS	LEU	LYS	ASP	HIS	PRO	ASP	LEU	LEU	GLY	LEU	ASP	GLY	VAL	VAL	VAL	GLY	ALA	GLY	HIS	ARG	B41	E347	ARG	GLY	LEU	LEU	LEU	LEU	TRP	ARG	GLY	PRO	PRO	PRO	GLU	THR	PRO	PRO	ASP	TYR									
ARG	TYR	HIS	VAL	ASP	GLY	PRO	LYS	PHE	THR	PRO	PRO	GLN	ALA	GLY	LYS	ASP	ALA	PRO	PRO	SER	PHE	LEU	VAL	TRP	VAL	GLY	LYS	ILE	ARG	ALA	ALA	GLY	GLY	GLY	ASP	GLN	PRO	GLY	THR	ASP	PRO	ARG	THR	TYR	ARG	ARG	GLY	LYS	ALA	ALA	ASN	ASP	ALA	ARG	GLY	LEU	THR	ASP	PHE	THR	VAL	ARG

- Molecule 111: DHC_N2 domain-containing protein

Chain Kg:

95%

5%

MET	ASP	PHE	SER	MET	ALA	LEU	ALA	ASP	ASP	TRP	TRP	ARG	ASP	PRO	TYR	VAL	LYS	ALA	PRO	GLY	ASN	ALA	ALA	GLY	LYS	SER	GLY	VAL	VAL	GLN	GLY	GLY	THR	ASP	THR	T50	L31	ASN	ASP	ALA	ARG	GLY	LEU	LEU	THR	PHE	THR	ARG		
ALA	ALA	PHE	GLY	ASN	LYS	ASP	ASP	PRO	PHE	TYR	TYR	HIS	SER	PRO	SER	ASN	ASN	TYR	GLY	ASN	PHE	THR	ALA	ALA	ALA	LEU	LEU	VAL	GLN	ASP	ASN	GLY	PRO	ALA	ALA	ALA	ALA	GLY	ALA	ALA	ALA	GLY	LEU	LEU	THR	ASP	PHE	THR	VAL	ARG

ALA	GLN	TRP	LYS	SER	LEU	LEU	ALA	ILE	GLN	LYS	ARG	ASP	ARG	LEU	VAL	R287	R343	R370	R479	ARG	PHE	GLU	ARG	MET	LEU	GLU
GLN	ARG	GLY	THR	GLY	GLU	THR	PRO	L497	P874	THR	VAL	GLY	D676	S727	LYS	SER	GLY	THR	MET	ARG	PRO	ALA	ALA	GLY	GLN	
SER	ILE	LYS	THR	THR	ARG	GLU	ILE	THR	THR	GLY	ARG	GLY	ALA	LEU	ALA	GLU	GLN	ALA	ALA	VAL	VAL	GLY	ASP	GLY	LYS	
LEU	LEU	LEU	ALA	THR	ALA	ARG	ALA	GLN	THR	THR	VAL	ARG	THR	THR	ALA	VAL	VAL	VAL	VAL	VAL	VAL	VAL	VAL	VAL	VAL	
LEU	ALA	GLY	GLU	ASP	LYS	VAL	VAL	VAL	HIS	HIS	VAL	VAL	ALA	ASP	VAL	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	

● Molecule 114: Flagellar associated protein



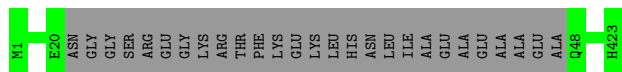
MET	ASP	GLY	PHE	GLY	VAL	ASP	ASP	VAL	VAL	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR
GLY	ARG	PHE	GLY	LYS	ASP	PRO	GLN	LYS	VAL	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR
PRO	GLU	LEU	ASN	PHE	GLY	SER	GLN	LYS	THR	THR	THR	T148	G256	GLY	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA
GLY	GLY	ASP	GLU	GLY	VAL	R297	B499	R715	ASP	ASP	ASP	ASP	ASN	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA
PRO	SER	ALA	LEU	GLU	SER	MET	ALA	ALA	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO
GLY	LEU	PRO	GLY	VAL	ASP	GLY	ASP	PRO	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY
LEU	GLU	ARG	ASP	PRO	ALA	PHE	ALA	ALA	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO
GLY	ALA	ARG	ASN	LYS	THR	THR	P1033	G1130	ALA	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY
GLY	GLY	SER	GLY	GLY	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO
SER	PRO	ALA	VAL	PRO	SER	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA
GLN	ASN	GLN	VAL	ILE	LEU	THR	GLN	ARG	TYR	ARG	ARG	ARG	ARG	ARG	ARG	ARG	ARG	ARG	ARG	ARG	ARG	ARG	ARG	ARG	ARG

Chain Le:  100%

There are no outlier residues recorded for this chain.

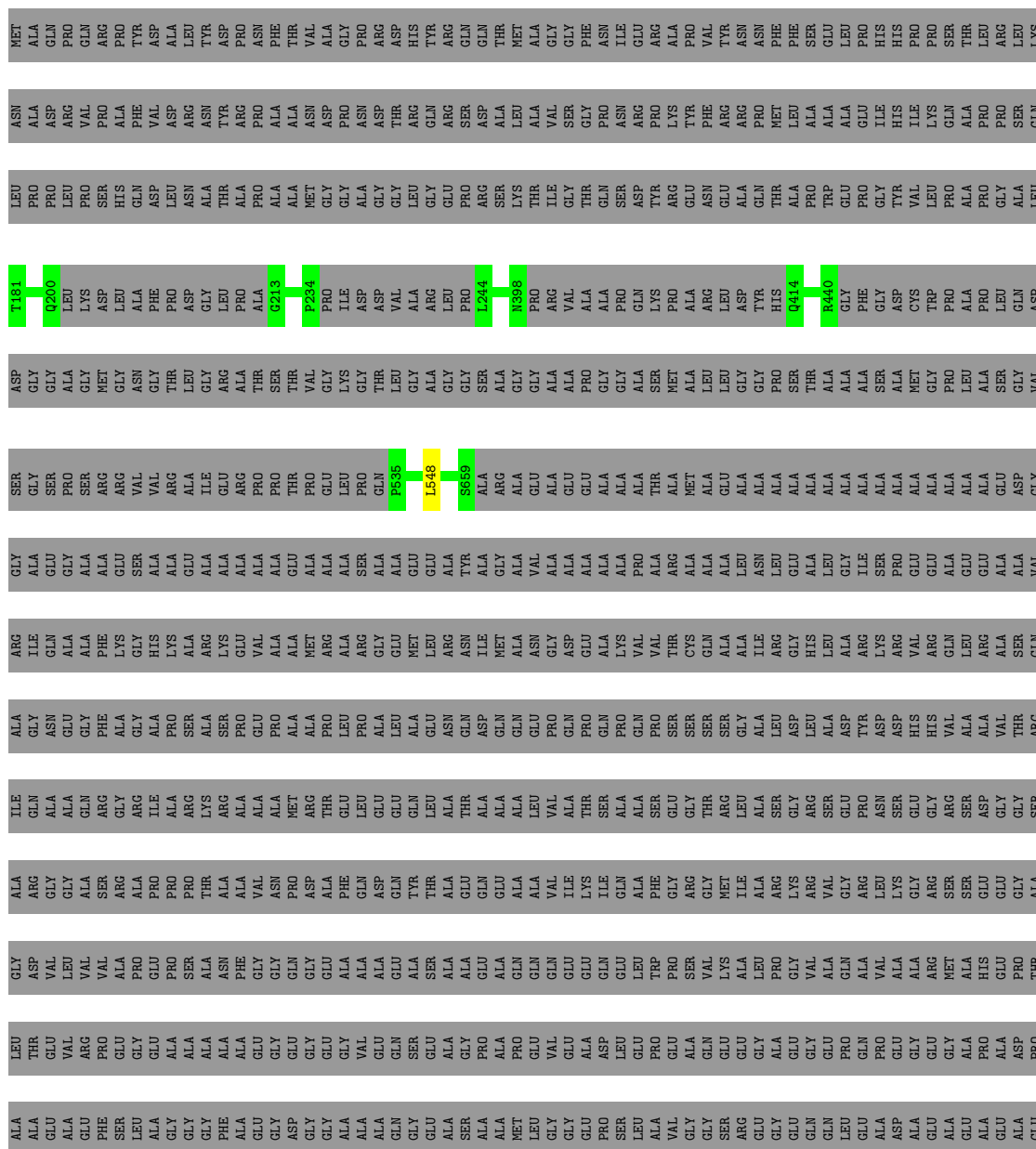
- Molecule 120: Subunit of axonemal inner dynein

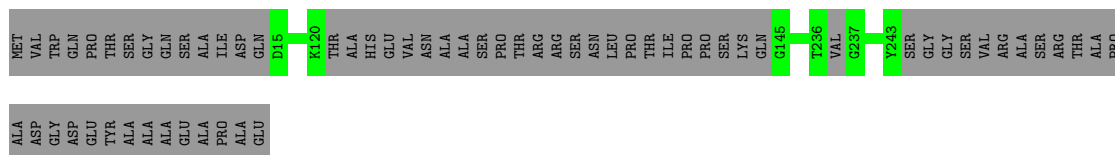
Chain Lf:  94%  6%



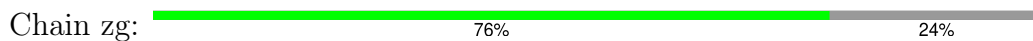
- Molecule 121: CFAP91 domain-containing protein

Chain Lg:  27%  73%

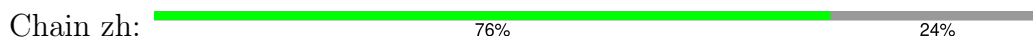




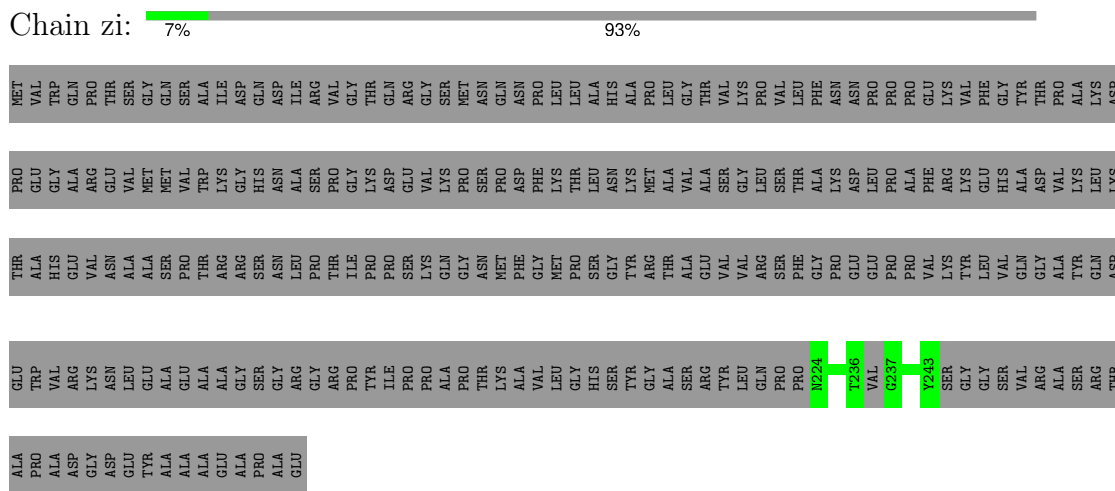
• Molecule 124: Cilia- and flagella-associated protein 77



• Molecule 124: Cilia- and flagella-associated protein 77



• Molecule 125: Flagellar associated protein



• Molecule 125: Flagellar associated protein





- Molecule 127: FAP1

Chain zu:  99%



- Molecule 127: FAP1

Chain zv:  99%



- Molecule 127: FAP1

Chain zw:  99%



- Molecule 127: FAP1

Chain zx:  99%



- Molecule 127: FAP1

Chain zy:  99%



- Molecule 127: FAP1

Chain zz:  99%



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	261585	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	61	Depositor
Minimum defocus (nm)	500	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	64000	Depositor
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor

5 Model quality i

5.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: GDP, GTP, MG

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	0A	0.27	0/3420	0.52	0/4628
1	0C	0.27	0/3420	0.55	0/4628
1	0E	0.25	0/3420	0.51	0/4628
1	0G	0.27	0/3420	0.55	1/4628 (0.0%)
1	0I	0.26	0/3420	0.51	0/4628
1	0K	0.26	0/3420	0.52	0/4628
1	0M	0.27	0/3420	0.53	0/4628
1	0O	0.28	0/3420	0.56	0/4628
1	0Q	0.27	0/3420	0.53	0/4628
1	0S	0.27	0/3420	0.55	0/4628
1	0U	0.25	0/3420	0.50	0/4628
1	0W	0.25	0/3420	0.51	0/4628
1	0Y	0.26	0/3420	0.53	0/4628
1	1A	0.25	0/3420	0.51	0/4628
1	1C	0.25	0/3420	0.51	0/4628
1	1E	0.26	0/3420	0.53	0/4628
1	1G	0.27	0/3420	0.54	0/4628
1	1K	0.25	0/3420	0.49	0/4628
1	1M	0.26	0/3420	0.51	0/4628
1	1O	0.25	0/3420	0.50	0/4628
1	1Q	0.25	0/3420	0.50	0/4628
1	1S	0.25	0/3420	0.51	0/4628
1	1U	0.27	0/3420	0.52	0/4628
1	1W	0.27	0/3420	0.53	0/4628
1	2A	0.25	0/3420	0.50	0/4628
1	2C	0.25	0/3420	0.49	0/4628
1	2E	0.25	0/3420	0.50	0/4628
1	2G	0.25	0/3420	0.51	0/4628
1	2I	0.25	0/3420	0.50	0/4628
1	2K	0.27	0/3420	0.53	0/4628
1	2M	0.26	0/3420	0.53	0/4628
1	2Q	0.40	0/3420	0.58	0/4628

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	2S	0.25	0/3420	0.49	0/4628
1	2U	0.25	0/3420	0.50	0/4628
1	2W	0.25	0/3420	0.49	0/4628
1	2Y	0.26	0/3420	0.51	0/4628
1	3A	0.27	0/3420	0.53	0/4628
1	3C	0.27	0/3420	0.53	0/4628
1	3G	0.26	0/3420	0.50	0/4628
1	3I	0.26	0/3420	0.51	0/4628
1	3K	0.26	0/3420	0.52	0/4628
1	3M	0.26	0/3420	0.50	0/4628
1	3O	0.28	0/3420	0.53	0/4628
1	3Q	0.27	0/3420	0.53	0/4628
1	3S	0.28	0/3420	0.53	0/4628
1	8H	0.25	0/3471	0.48	0/4697
1	8J	0.25	0/3496	0.49	0/4730
1	8L	0.25	0/3505	0.51	0/4742
1	8N	0.25	0/3496	0.50	0/4730
1	A1	0.26	0/3462	0.51	0/4685
1	A3	0.26	0/3484	0.49	0/4714
1	A5	0.26	0/3444	0.50	0/4661
1	A6	0.26	0/3420	0.50	0/4628
1	A7	0.24	0/3420	0.49	0/4628
1	A9	0.24	0/3420	0.49	0/4628
1	AJ	0.26	0/3496	0.52	0/4730
1	Ah	0.26	0/3496	0.50	0/4730
1	Aj	0.26	0/3505	0.51	0/4742
1	Al	0.30	0/3496	0.50	0/4730
1	An	0.27	0/3462	0.50	0/4685
1	Ap	0.26	0/3484	0.50	0/4714
1	Au	0.26	0/3420	0.51	0/4628
1	Aw	0.26	0/3420	0.50	0/4628
1	Ay	0.29	0/3420	0.52	0/4628
1	B1	0.25	0/3420	0.49	0/4628
1	B3	0.24	0/3420	0.48	0/4628
1	B5	0.25	0/3420	0.50	0/4628
1	B6	0.28	0/3420	0.50	0/4628
1	B8	0.26	0/3420	0.51	0/4628
1	BB	0.26	0/3420	0.50	0/4628
1	BG	0.27	0/3420	0.54	0/4628
1	BI	0.27	0/3420	0.50	0/4628
1	BK	0.27	0/3420	0.54	0/4628
1	BM	0.28	0/3420	0.53	0/4628
1	BO	0.27	0/3420	0.53	0/4628

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	BS	0.26	0/3420	0.51	0/4628
1	BU	0.28	0/3420	0.53	0/4628
1	BW	0.28	0/3420	0.51	0/4628
1	BY	0.28	0/3420	0.54	0/4628
1	Ba	0.29	0/3420	0.55	0/4628
1	Bf	0.27	0/3420	0.57	0/4628
1	Bh	0.27	0/3420	0.52	0/4628
1	Bj	0.30	0/3420	0.53	0/4628
1	Bl	0.27	0/3420	0.52	0/4628
1	Bn	0.28	0/3420	0.51	0/4628
1	Bs	0.26	0/3420	0.50	0/4628
1	Bu	0.27	0/3420	0.50	0/4628
1	Bw	0.26	0/3420	0.50	0/4628
1	By	0.27	0/3420	0.50	0/4628
1	C0	0.26	0/3420	0.51	0/4628
1	C2	0.27	0/3420	0.51	0/4628
1	C4	0.25	0/3420	0.50	0/4628
1	C6	0.25	0/3420	0.51	0/4628
1	C8	0.25	0/3420	0.51	0/4628
1	CE	0.26	0/3420	0.50	0/4628
1	CG	0.27	0/3420	0.50	0/4628
1	CI	0.27	0/3420	0.50	0/4628
1	CK	0.27	0/3420	0.50	0/4628
1	CM	0.28	0/3420	0.49	0/4628
1	CR	0.27	0/3420	0.52	0/4628
1	CT	0.28	0/3420	0.51	0/4628
1	CV	0.28	0/3420	0.50	0/4628
1	CX	0.28	0/3420	0.52	0/4628
1	CZ	0.28	0/3420	0.51	0/4628
1	Ce	0.28	0/3420	0.52	0/4628
1	Cg	0.28	0/3420	0.53	0/4628
1	Ci	0.28	0/3420	0.52	0/4628
1	Ck	0.28	0/3420	0.53	0/4628
1	Cm	0.28	0/3420	0.50	0/4628
1	Cr	0.27	0/3420	0.53	0/4628
1	Ct	0.27	0/3420	0.53	0/4628
1	Cv	0.29	0/3420	0.53	0/4628
1	Cx	0.29	0/3420	0.54	0/4628
1	Cz	0.29	0/3420	0.52	0/4628
1	D0	0.25	0/3420	0.50	0/4628
1	D2	0.25	0/3420	0.52	0/4628
1	D4	0.27	0/3420	0.52	0/4628
1	D6	0.27	0/3420	0.53	0/4628

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	D8	0.28	0/3420	0.54	0/4628
1	DE	0.27	0/3420	0.50	0/4628
1	DG	0.28	0/3420	0.52	1/4628 (0.0%)
1	DI	0.28	0/3420	0.52	1/4628 (0.0%)
1	DK	0.29	0/3420	0.51	0/4628
1	DM	0.29	0/3420	0.51	0/4628
1	DR	0.28	0/3420	0.51	0/4628
1	DT	0.28	0/3444	0.50	0/4661
1	DV	0.28	0/3420	0.50	0/4628
1	DX	0.29	0/3453	0.51	0/4673
1	DZ	0.30	0/3420	0.52	0/4628
1	De	0.27	0/3420	0.51	0/4628
1	Dg	0.26	0/3420	0.50	0/4628
1	Di	0.27	0/3420	0.50	0/4628
1	Dk	0.27	0/3420	0.51	0/4628
1	Dm	0.27	0/3420	0.51	0/4628
1	Dr	0.27	0/3420	0.52	0/4628
1	Dt	0.26	0/3420	0.52	0/4628
1	Dv	0.27	0/3444	0.52	1/4661 (0.0%)
1	Dx	0.29	0/3420	0.53	0/4628
1	Dz	0.28	0/3420	0.52	0/4628
1	E0	0.26	0/3420	0.52	0/4628
1	E2	0.25	0/3420	0.49	0/4628
1	E4	0.25	0/3420	0.50	0/4628
1	E6	0.25	0/3420	0.51	0/4628
1	E8	0.57	0/3420	0.72	0/4628
1	ED	0.28	0/3420	0.52	0/4628
1	EF	0.28	0/3420	0.53	0/4628
1	EH	0.27	0/3420	0.51	0/4628
1	EJ	0.34	1/3420 (0.0%)	0.60	3/4628 (0.1%)
1	EL	0.29	0/3420	0.54	1/4628 (0.0%)
1	EQ	0.28	0/3420	0.55	1/4628 (0.0%)
1	ES	0.28	0/3420	0.53	0/4628
1	EU	0.26	0/3420	0.51	0/4628
1	EW	0.27	0/3420	0.52	0/4628
1	EY	0.27	0/3420	0.53	0/4628
1	Ed	0.28	0/3420	0.55	0/4628
1	Ef	0.28	0/3420	0.53	0/4628
1	Eh	0.27	0/3420	0.54	0/4628
1	Ej	0.28	0/3420	0.56	0/4628
1	El	0.27	0/3420	0.54	1/4628 (0.0%)
1	Eq	0.27	0/3420	0.53	0/4628
1	Es	0.27	0/3420	0.53	0/4628

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	Eu	0.27	0/3420	0.53	0/4628
1	Ew	0.26	0/3420	0.52	0/4628
1	F0	0.27	0/3420	0.52	0/4628
1	F2	0.27	0/3420	0.53	0/4628
1	F6	0.25	0/3420	0.51	0/4628
1	F8	0.25	0/3420	0.52	0/4628
1	FC	0.27	0/3420	0.53	0/4628
1	FE	0.28	0/3420	0.56	0/4628
1	FG	0.27	0/3420	0.53	0/4628
1	FI	0.26	0/3420	0.51	0/4628
1	FK	0.26	0/3420	0.53	0/4628
1	FP	0.27	0/3420	0.53	0/4628
1	FR	0.27	0/3420	0.52	0/4628
1	FT	0.27	0/3420	0.54	0/4628
1	FV	0.27	0/3420	0.52	0/4628
1	FX	0.27	0/3420	0.51	0/4628
1	Fc	0.27	0/3420	0.52	0/4628
1	Fe	0.27	0/3420	0.50	0/4628
1	Fg	0.26	0/3420	0.52	0/4628
1	Fi	0.27	0/3420	0.51	0/4628
1	Fk	0.27	0/3420	0.51	0/4628
1	Fp	0.27	0/3420	0.50	0/4628
1	Fr	0.27	0/3420	0.52	0/4628
1	Ft	0.26	0/3420	0.50	0/4628
1	Fv	0.27	0/3420	0.52	0/4628
1	Fx	0.27	0/3420	0.51	0/4628
1	G0	0.25	0/3420	0.50	0/4628
1	G2	0.25	0/3420	0.52	0/4628
1	G4	0.25	0/3420	0.51	0/4628
1	G6	0.26	0/3420	0.52	0/4628
1	G8	0.26	0/3420	0.53	0/4628
1	GB	0.28	0/3420	0.53	0/4628
1	GD	0.28	0/3420	0.52	0/4628
1	GF	0.28	0/3420	0.52	0/4628
1	GH	0.28	0/3420	0.53	0/4628
1	GJ	0.27	0/3420	0.53	0/4628
1	H2	0.25	0/3420	0.49	0/4628
1	H4	0.26	0/3420	0.52	0/4628
1	H6	0.25	0/3420	0.49	0/4628
1	H8	0.25	0/3420	0.50	0/4628
1	I0	0.24	0/3420	0.50	0/4628
1	I2	0.27	0/3420	0.52	0/4628
1	I4	0.26	0/3420	0.52	0/4628

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	I8	0.25	0/3420	0.50	0/4628
1	IK	0.26	0/3462	0.50	0/4685
1	IM	0.24	0/3484	0.49	0/4714
1	IW	0.25	0/3420	0.50	0/4628
1	IY	0.24	0/3420	0.48	0/4628
1	Ij	0.26	0/3420	0.52	0/4628
1	Il	0.24	0/3420	0.50	0/4628
1	Iw	0.26	0/3420	0.52	0/4628
1	Iy	0.26	0/3420	0.51	0/4628
1	J0	0.25	0/3420	0.49	0/4628
1	J2	0.25	0/3420	0.49	0/4628
1	J4	0.25	0/3420	0.49	0/4628
1	J6	0.25	0/3420	0.50	0/4628
1	J8	0.26	0/3420	0.49	0/4628
1	JJ	0.25	0/3420	0.51	0/4628
1	JL	0.25	0/3420	0.50	0/4628
1	JU	0.25	0/3420	0.50	1/4628 (0.0%)
1	JW	0.25	0/3420	0.50	0/4628
1	JY	0.25	0/3420	0.48	0/4628
1	Jh	0.24	0/3420	0.47	0/4628
1	Jj	0.25	0/3420	0.49	0/4628
1	Jl	0.25	0/3420	0.48	0/4628
1	Ju	0.25	0/3420	0.49	0/4628
1	Jw	0.25	0/3420	0.49	0/4628
1	Jy	0.25	0/3420	0.51	0/4628
1	K0	0.26	0/3420	0.51	0/4628
1	K4	0.25	0/3420	0.49	0/4628
1	K6	0.25	0/3420	0.50	0/4628
1	K8	0.25	0/3420	0.50	0/4628
1	KH	0.25	0/3420	0.51	0/4628
1	KJ	0.26	0/3420	0.50	0/4628
1	KL	0.25	0/3420	0.51	0/4628
1	KU	0.25	0/3420	0.49	0/4628
1	KW	0.26	0/3420	0.52	1/4628 (0.0%)
1	KY	0.25	0/3420	0.49	0/4628
1	Kh	0.25	0/3420	0.49	0/4628
1	Kj	0.25	0/3420	0.49	0/4628
1	Kl	0.25	0/3420	0.49	0/4628
1	Kv	0.25	0/3420	0.50	0/4628
1	Kx	0.25	0/3453	0.50	0/4673
1	L0	0.25	0/3420	0.49	0/4628
1	L2	0.27	0/3420	0.51	0/4628
1	L4	0.28	0/3420	0.51	0/4628

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	L6	0.27	0/3420	0.51	0/4628
1	LH	0.24	0/3420	0.48	0/4628
1	LJ	0.25	0/3420	0.48	0/4628
1	LT	0.25	0/3444	0.51	0/4661
1	LV	0.25	0/3420	0.51	0/4628
1	LX	0.25	0/3420	0.51	0/4628
1	Lh	0.25	0/3420	0.50	0/4628
1	Lj	0.26	0/3420	0.53	1/4628 (0.0%)
1	Lu	0.26	0/3420	0.51	0/4628
1	Lw	0.26	0/3420	0.52	0/4628
1	M0	0.26	0/3420	0.51	0/4628
1	M2	0.25	0/3420	0.51	0/4628
1	M4	0.26	0/3420	0.53	0/4628
1	M6	0.25	0/3420	0.51	0/4628
1	M8	0.28	0/3420	0.55	1/4628 (0.0%)
1	MG	0.25	0/3420	0.52	0/4628
1	MI	0.27	0/3420	0.54	0/4628
1	MT	0.27	0/3420	0.54	1/4628 (0.0%)
1	MV	0.25	0/3420	0.52	0/4628
1	Mg	0.25	0/3420	0.51	0/4628
1	Mi	0.25	0/3420	0.50	0/4628
1	Mt	0.25	0/3420	0.51	0/4628
1	Mv	0.25	0/3420	0.50	0/4628
1	N0	0.28	0/3420	0.53	0/4628
1	N2	0.28	0/3420	0.54	0/4628
1	N6	0.25	0/3420	0.48	0/4628
1	N8	0.25	0/3420	0.49	0/4628
1	NF	0.25	0/3420	0.50	0/4628
1	NH	0.26	0/3420	0.55	1/4628 (0.0%)
1	NJ	0.25	0/3420	0.50	0/4628
1	NS	0.25	0/3420	0.51	0/4628
1	NU	0.25	0/3420	0.49	0/4628
1	NW	0.25	0/3420	0.51	0/4628
1	Nf	0.25	0/3420	0.52	0/4628
1	Nh	0.25	0/3420	0.51	0/4628
1	Nj	0.26	0/3420	0.52	0/4628
1	O0	0.25	0/3420	0.49	0/4628
1	O2	0.25	0/3420	0.50	0/4628
1	O4	0.25	0/3420	0.52	0/4628
1	O6	0.27	0/3420	0.52	0/4628
1	O8	0.27	0/3420	0.51	0/4628
1	P4	0.25	0/3420	0.49	0/4628
1	P6	0.27	0/3420	0.52	2/4628 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	P8	0.25	0/3420	0.48	0/4628
1	Q0	0.25	0/3420	0.49	0/4628
1	Q2	0.25	0/3420	0.48	0/4628
1	Q4	0.29	0/3420	0.55	2/4628 (0.0%)
1	Q6	0.29	0/3420	0.56	1/4628 (0.0%)
1	Q8	0.40	0/3366	0.64	4/4556 (0.1%)
1	R0	0.25	0/3475	0.49	0/4702
1	R2	0.25	0/3420	0.50	0/4628
1	R4	0.25	0/3444	0.49	0/4661
1	R6	0.25	0/3420	0.49	0/4628
1	R8	0.29	0/3453	0.50	0/4673
1	S0	0.28	0/3420	0.50	0/4628
1	S2	0.28	0/3453	0.52	0/4673
1	S4	0.25	0/3428	0.51	0/4639
1	S6	0.25	0/3420	0.49	0/4628
1	S8	0.25	0/3420	0.50	0/4628
1	T0	0.25	0/3420	0.49	0/4628
1	T2	0.25	0/3420	0.48	0/4628
1	T4	0.27	0/3420	0.51	0/4628
1	T6	0.26	0/3420	0.51	0/4628
1	T8	0.27	0/3420	0.51	0/4628
1	U2	0.26	0/3420	0.53	0/4628
1	U4	0.25	0/3420	0.50	0/4628
1	U6	0.25	0/3420	0.51	0/4628
1	U8	0.25	0/3444	0.50	0/4661
1	V0	0.27	0/3420	0.53	0/4628
1	V2	0.26	0/3420	0.53	0/4628
1	V4	0.26	0/3420	0.53	0/4628
1	V6	0.26	0/3420	0.52	0/4628
1	V8	0.25	0/3420	0.53	0/4628
1	W0	0.25	0/3420	0.51	0/4628
1	W2	0.25	0/3420	0.51	0/4628
1	W4	0.25	0/3420	0.50	1/4628 (0.0%)
1	W6	0.28	0/3420	0.53	0/4628
1	W8	0.29	0/3420	0.54	0/4628
1	X0	0.27	0/3420	0.52	0/4628
1	X2	0.26	0/3420	0.52	0/4628
1	X4	0.26	0/3420	0.51	0/4628
1	X6	0.25	0/3420	0.49	0/4628
1	X8	0.25	0/3420	0.52	0/4628
1	Y0	0.25	0/3420	0.51	0/4628
1	Y2	0.27	0/3420	0.52	0/4628
1	Y4	0.28	0/3420	0.53	0/4628

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	Y6	0.27	0/3420	0.52	0/4628
1	Y8	0.26	0/3420	0.53	0/4628
1	Z0	0.25	0/3420	0.51	0/4628
1	Z2	0.25	0/3420	0.50	0/4628
1	Z4	0.25	0/3420	0.50	0/4628
1	Z6	0.25	0/3420	0.50	0/4628
1	Z8	0.28	0/3420	0.56	1/4628 (0.0%)
2	0B	0.27	0/3389	0.54	0/4595
2	0F	0.25	0/3389	0.52	0/4595
2	0H	0.25	0/3389	0.52	0/4595
2	0J	0.25	0/3389	0.51	0/4595
2	0L	0.25	0/3389	0.51	0/4595
2	0N	0.25	0/3389	0.51	0/4595
2	0P	0.27	0/3389	0.54	0/4595
2	0R	0.27	0/3389	0.53	0/4595
2	0V	0.25	0/3389	0.51	0/4595
2	0X	0.25	0/3389	0.52	1/4595 (0.0%)
2	0Z	0.25	0/3389	0.52	0/4595
2	1B	0.26	0/3389	0.51	0/4595
2	1D	0.27	0/3389	0.54	0/4595
2	1F	0.27	0/3389	0.53	0/4595
2	1H	0.27	0/3389	0.54	0/4595
2	1L	0.24	0/3389	0.49	0/4595
2	1N	0.25	0/3389	0.51	0/4595
2	1P	0.25	0/3389	0.51	0/4595
2	1R	0.25	0/3389	0.50	0/4595
2	1T	0.27	0/3389	0.52	0/4595
2	1V	0.27	0/3389	0.53	0/4595
2	1X	0.26	0/3389	0.51	0/4595
2	1Z	0.26	0/3389	0.51	0/4595
2	2B	0.24	0/3389	0.49	0/4595
2	2D	0.25	0/3389	0.50	0/4595
2	2F	0.26	0/3389	0.51	0/4595
2	2H	0.25	0/3389	0.51	0/4595
2	2J	0.27	0/3389	0.52	0/4595
2	2L	0.27	0/3389	0.52	0/4595
2	2N	0.26	0/3389	0.53	0/4595
2	2P	0.28	0/3389	0.56	1/4595 (0.0%)
2	2R	0.24	0/3389	0.50	0/4595
2	2T	0.25	0/3389	0.49	0/4595
2	2V	0.25	0/3389	0.51	1/4595 (0.0%)
2	2X	0.25	0/3457	0.51	0/4687
2	2Z	0.27	0/3389	0.53	0/4595

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	3B	0.28	0/3455	0.52	0/4684
2	3D	0.27	0/3389	0.55	0/4595
2	3F	0.25	0/3389	0.53	0/4595
2	3H	0.25	0/3389	0.51	0/4595
2	3J	0.25	0/3389	0.51	0/4595
2	3L	0.25	0/3389	0.52	0/4595
2	3N	0.25	0/3389	0.51	0/4595
2	3P	0.27	0/3389	0.53	0/4595
2	3R	0.27	0/3457	0.53	0/4687
2	3T	0.27	0/3389	0.53	0/4595
2	8F	0.25	0/3448	0.49	0/4675
2	8I	0.25	0/3448	0.49	0/4675
2	8K	0.24	0/3448	0.48	0/4675
2	8M	0.25	0/3448	0.50	0/4675
2	A0	0.25	0/3448	0.52	0/4675
2	A2	0.27	0/3448	0.52	0/4675
2	A4	0.26	0/3448	0.50	0/4675
2	A8	0.25	0/3389	0.50	0/4595
2	AT	0.25	0/3448	0.50	0/4675
2	Ag	0.26	0/3448	0.50	0/4675
2	Ai	0.27	0/3448	0.51	0/4675
2	Ak	0.31	0/3448	0.53	0/4675
2	Am	0.28	0/3448	0.51	0/4675
2	Ao	0.27	0/3448	0.51	0/4675
2	At	0.28	0/3389	0.53	0/4595
2	Av	0.26	0/3389	0.52	0/4595
2	Ax	0.32	0/3389	0.54	0/4595
2	Az	0.26	0/3389	0.50	0/4595
2	B0	0.25	0/3389	0.50	0/4595
2	B2	0.25	0/3389	0.50	0/4595
2	B4	0.24	0/3389	0.49	0/4595
2	B7	0.25	0/3389	0.50	0/4595
2	B9	0.26	0/3389	0.52	0/4595
2	BA	0.27	0/3389	0.51	0/4595
2	BF	0.28	0/3448	0.51	0/4675
2	BH	0.27	0/3389	0.52	0/4595
2	BJ	0.29	0/3389	0.51	0/4595
2	BL	0.27	0/3395	0.53	0/4603
2	BN	0.28	0/3389	0.54	0/4595
2	BT	0.27	0/3389	0.53	0/4595
2	BV	0.29	0/3389	0.56	0/4595
2	BX	0.28	0/3395	0.52	0/4603
2	BZ	0.28	0/3389	0.54	0/4595

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	Bb	0.27	0/3389	0.53	0/4595
2	Bg	0.26	0/3448	0.50	0/4675
2	Bi	0.29	0/3448	0.52	0/4675
2	Bk	0.29	0/3490	0.53	0/4731
2	Bm	0.28	0/3389	0.51	0/4595
2	Bo	0.27	0/3389	0.52	1/4595 (0.0%)
2	Bt	0.28	0/3389	0.51	0/4595
2	Bv	0.27	0/3389	0.50	0/4595
2	Bx	0.27	0/3389	0.52	1/4595 (0.0%)
2	Bz	0.28	0/3389	0.52	0/4595
2	C1	0.26	0/3389	0.52	0/4595
2	C3	0.29	0/3411	0.52	0/4624
2	C5	0.25	0/3448	0.51	0/4675
2	C7	0.25	0/3448	0.49	0/4675
2	C9	0.25	0/3389	0.49	0/4595
2	CA	0.28	0/3389	0.51	0/4595
2	CF	0.28	0/3389	0.51	0/4595
2	CH	0.27	0/3397	0.51	0/4606
2	CJ	0.28	0/3457	0.52	0/4687
2	CL	0.28	0/3389	0.50	0/4595
2	CN	0.27	0/3457	0.51	0/4687
2	CS	0.28	0/3389	0.53	0/4595
2	CU	0.27	0/3389	0.51	0/4595
2	CW	0.27	0/3389	0.51	0/4595
2	CY	0.28	0/3389	0.53	0/4595
2	Cf	0.27	0/3448	0.52	0/4675
2	Ch	0.28	0/3389	0.54	0/4595
2	Cj	0.27	0/3448	0.52	0/4675
2	Cl	0.28	0/3457	0.52	0/4687
2	Cs	0.26	0/3389	0.51	0/4595
2	Cu	0.27	0/3389	0.53	0/4595
2	Cw	0.27	0/3389	0.52	0/4595
2	Cy	0.28	0/3389	0.52	0/4595
2	D1	0.25	0/3389	0.51	0/4595
2	D3	0.28	0/3395	0.52	0/4603
2	D5	0.27	0/3389	0.54	0/4595
2	D7	0.27	0/3395	0.53	0/4603
2	DD	0.27	0/3448	0.52	0/4675
2	DF	0.28	0/3389	0.52	0/4595
2	DH	0.28	0/3448	0.52	0/4675
2	DJ	0.28	0/3389	0.51	0/4595
2	DL	0.29	0/3389	0.53	0/4595
2	DN	0.30	0/3389	0.53	0/4595

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	DQ	0.28	0/3389	0.52	0/4595
2	DS	0.29	0/3398	0.53	0/4607
2	DU	0.28	0/3448	0.52	0/4675
2	DW	0.29	0/3389	0.52	0/4595
2	DY	0.30	0/3448	0.52	0/4675
2	Da	0.30	0/3404	0.52	0/4615
2	Dd	0.26	0/3448	0.50	0/4675
2	Df	0.27	0/3389	0.51	0/4595
2	Dh	0.27	0/3389	0.51	0/4595
2	Dj	0.27	0/3389	0.50	0/4595
2	DI	0.27	0/3389	0.51	0/4595
2	Dq	0.27	0/3389	0.54	0/4595
2	Ds	0.27	0/3389	0.53	0/4595
2	Du	0.26	0/3389	0.51	0/4595
2	Dw	0.27	0/3389	0.54	0/4595
2	Dy	0.29	0/3389	0.54	0/4595
2	E1	0.25	0/3395	0.51	0/4603
2	E3	0.25	0/3389	0.50	0/4595
2	E5	0.25	0/3389	0.51	0/4595
2	E7	0.25	0/3395	0.53	0/4603
2	E9	0.27	0/3389	0.54	0/4595
2	EC	0.28	0/3389	0.54	0/4595
2	EE	0.28	0/3389	0.52	0/4595
2	EG	0.27	0/3389	0.53	0/4595
2	EI	0.28	0/3389	0.53	0/4595
2	EK	0.28	0/3389	0.54	0/4595
2	EP	0.29	0/3389	0.56	1/4595 (0.0%)
2	ER	0.28	0/3389	0.55	0/4595
2	ET	0.28	0/3389	0.54	0/4595
2	EV	0.27	0/3389	0.55	1/4595 (0.0%)
2	EX	0.28	0/3389	0.55	0/4595
2	Ec	0.27	0/3389	0.56	1/4595 (0.0%)
2	Ee	0.27	0/3389	0.54	1/4595 (0.0%)
2	Eg	0.27	0/3389	0.53	0/4595
2	Ei	0.26	0/3389	0.52	0/4595
2	Ek	0.26	0/3389	0.52	0/4595
2	Ep	0.26	0/3389	0.53	0/4595
2	Er	0.27	0/3389	0.54	0/4595
2	Et	0.26	0/3389	0.53	0/4595
2	Ev	0.27	0/3389	0.54	1/4595 (0.0%)
2	Ex	0.26	0/3389	0.53	0/4595
2	F1	0.27	0/3389	0.55	1/4595 (0.0%)
2	F3	0.26	0/3389	0.54	0/4595

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	F5	0.25	0/3389	0.50	0/4595
2	F7	0.25	0/3389	0.51	0/4595
2	F9	0.25	0/3448	0.51	0/4675
2	FD	0.27	0/3389	0.54	0/4595
2	FF	0.27	0/3389	0.54	0/4595
2	FH	0.26	0/3389	0.53	0/4595
2	FJ	0.26	0/3389	0.51	0/4595
2	FL	0.27	0/3389	0.52	0/4595
2	FQ	0.27	0/3389	0.51	0/4595
2	FS	0.27	0/3389	0.51	0/4595
2	FU	0.27	0/3389	0.53	0/4595
2	FW	0.27	0/3389	0.51	0/4595
2	FY	0.27	0/3389	0.51	0/4595
2	Fd	0.27	0/3389	0.51	0/4595
2	Ff	0.28	0/3389	0.53	0/4595
2	Fh	0.26	0/3389	0.52	0/4595
2	Fj	0.26	0/3389	0.50	0/4595
2	Fl	0.26	0/3389	0.51	0/4595
2	Fq	0.28	0/3389	0.53	0/4595
2	Fs	0.27	0/3389	0.51	0/4595
2	Fu	0.27	0/3457	0.51	0/4687
2	Fw	0.27	0/3389	0.51	0/4595
2	G1	0.25	0/3448	0.51	0/4675
2	G3	0.26	0/3448	0.51	0/4675
2	G5	0.27	0/3389	0.52	0/4595
2	G7	0.27	0/3389	0.52	0/4595
2	G9	0.26	0/3389	0.52	1/4595 (0.0%)
2	GC	0.27	0/3389	0.53	0/4595
2	GE	0.28	0/3389	0.54	0/4595
2	GG	0.27	0/3389	0.52	0/4595
2	GI	0.27	0/3389	0.53	0/4595
2	H1	0.24	0/3389	0.50	0/4595
2	H3	0.24	0/3389	0.49	0/4595
2	H5	0.25	0/3389	0.49	0/4595
2	H7	0.25	0/3389	0.49	0/4595
2	H9	0.25	0/3389	0.51	0/4595
2	Hu	0.25	0/3448	0.52	0/4675
2	I1	0.27	0/3389	0.52	0/4595
2	I3	0.27	0/3389	0.51	0/4595
2	I5	0.27	0/3389	0.52	0/4595
2	I7	0.25	0/3403	0.49	0/4614
2	I9	0.25	0/3395	0.50	0/4603
2	IL	0.24	0/3448	0.49	0/4675

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	IV	0.25	0/3389	0.50	0/4595
2	IX	0.24	0/3389	0.50	0/4595
2	IZ	0.24	0/3389	0.49	0/4595
2	Ii	0.25	0/3389	0.51	0/4595
2	Ik	0.25	0/3395	0.51	0/4603
2	Im	0.25	0/3389	0.50	0/4595
2	Iv	0.26	0/3395	0.51	0/4603
2	Ix	0.25	0/3389	0.52	0/4595
2	Iz	0.25	0/3389	0.51	0/4595
2	J1	0.25	0/3389	0.49	0/4595
2	J3	0.25	0/3397	0.50	0/4606
2	J5	0.25	0/3457	0.51	1/4687 (0.0%)
2	J7	0.26	0/3389	0.52	0/4595
2	J9	0.28	0/3457	0.54	0/4687
2	Ji	0.25	0/3448	0.49	0/4675
2	JK	0.25	0/3389	0.49	0/4595
2	JV	0.25	0/3389	0.50	1/4595 (0.0%)
2	JX	0.25	0/3389	0.50	0/4595
2	Jj	0.25	0/3457	0.50	0/4687
2	Jk	0.25	0/3389	0.50	0/4595
2	Jv	0.25	0/3389	0.51	0/4595
2	Jx	0.25	0/3389	0.51	0/4595
2	K1	0.26	0/3389	0.51	0/4595
2	K3	0.25	0/3389	0.49	0/4595
2	K5	0.25	0/3389	0.51	0/4595
2	K7	0.25	0/3389	0.50	0/4595
2	K9	0.26	0/3389	0.51	0/4595
2	KI	0.24	0/3448	0.51	0/4675
2	KK	0.26	0/3457	0.52	0/4687
2	KV	0.25	0/3389	0.51	0/4595
2	KX	0.25	0/3389	0.49	0/4595
2	Ki	0.25	0/3389	0.50	0/4595
2	Kk	0.25	0/3389	0.50	0/4595
2	Kw	0.25	0/3389	0.51	0/4595
2	Ky	0.25	0/3448	0.49	0/4675
2	L1	0.25	0/3389	0.50	0/4595
2	L3	0.27	0/3389	0.53	0/4595
2	L5	0.28	0/3389	0.53	0/4595
2	L7	0.27	0/3389	0.53	0/4595
2	L9	0.25	0/3389	0.52	1/4595 (0.0%)
2	LI	0.25	0/3389	0.49	0/4595
2	LK	0.25	0/3389	0.49	0/4595
2	LU	0.25	0/3389	0.53	0/4595

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	LW	0.26	0/3389	0.52	0/4595
2	Li	0.25	0/3389	0.53	0/4595
2	Lk	0.27	0/3389	0.55	1/4595 (0.0%)
2	Lv	0.25	0/3389	0.52	0/4595
2	Lx	0.25	0/3389	0.52	0/4595
2	M1	0.25	0/3389	0.50	0/4595
2	M3	0.25	0/3448	0.50	0/4675
2	M5	0.25	0/3389	0.51	0/4595
2	M7	0.25	0/3448	0.51	0/4675
2	M9	0.27	0/3457	0.52	0/4687
2	MF	0.26	0/3389	0.53	1/4595 (0.0%)
2	MH	0.24	0/3389	0.51	0/4595
2	MJ	0.25	0/3389	0.50	0/4595
2	MS	0.25	0/3389	0.52	0/4595
2	MU	0.25	0/3389	0.52	0/4595
2	MW	0.25	0/3389	0.51	0/4595
2	Mf	0.25	0/3389	0.52	0/4595
2	Mh	0.25	0/3389	0.50	0/4595
2	Mj	0.25	0/3389	0.51	0/4595
2	Ms	0.25	0/3389	0.51	0/4595
2	Mu	0.29	1/3389 (0.0%)	0.53	0/4595
2	Mw	0.25	0/3389	0.52	0/4595
2	N1	0.27	0/3395	0.52	0/4603
2	N3	0.27	0/3389	0.55	0/4595
2	N5	0.26	0/3389	0.50	0/4595
2	N7	0.25	0/3389	0.49	0/4595
2	N9	0.26	0/3389	0.51	0/4595
2	NG	0.61	0/3389	0.73	1/4595 (0.0%)
2	NI	0.24	0/3389	0.50	0/4595
2	NT	0.25	0/3457	0.50	0/4687
2	NV	0.25	0/3389	0.50	0/4595
2	Ng	0.26	0/3389	0.52	0/4595
2	Ni	0.25	0/3389	0.51	0/4595
2	O1	0.25	0/3389	0.50	0/4595
2	O3	0.25	0/3389	0.51	0/4595
2	O5	0.27	0/3389	0.53	0/4595
2	O7	0.27	0/3411	0.53	0/4624
2	O9	0.27	0/3389	0.52	0/4595
2	P3	0.26	0/3389	0.50	0/4595
2	P5	0.25	0/3448	0.50	0/4675
2	P7	0.25	0/3389	0.52	0/4595
2	P9	0.25	0/3448	0.50	0/4675
2	Q1	0.25	0/3389	0.50	0/4595

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	Q3	0.28	0/3389	0.52	0/4595
2	Q5	0.28	0/3389	0.52	0/4595
2	Q9	0.25	0/3389	0.50	0/4595
2	R1	0.29	0/3389	0.52	0/4595
2	R3	0.25	0/3398	0.51	0/4607
2	R5	0.25	0/3448	0.51	0/4675
2	R7	0.25	0/3389	0.51	0/4595
2	R9	0.30	0/3448	0.53	0/4675
2	S1	0.29	0/3404	0.52	0/4615
2	S5	0.25	0/3389	0.49	0/4595
2	S7	0.25	0/3448	0.49	0/4675
2	S9	0.30	0/3389	0.51	0/4595
2	T1	0.25	0/3389	0.49	0/4595
2	T3	0.25	0/3389	0.49	0/4595
2	T5	0.27	0/3389	0.51	0/4595
2	T7	0.27	0/3389	0.53	1/4595 (0.0%)
2	U1	0.25	0/3389	0.51	0/4595
2	U3	0.25	0/3389	0.51	0/4595
2	U5	0.25	0/3389	0.52	0/4595
2	U7	0.25	0/3389	0.51	0/4595
2	U9	0.25	0/3389	0.51	0/4595
2	V1	0.26	0/3389	0.52	0/4595
2	V3	0.27	0/3389	0.54	0/4595
2	V7	0.25	0/3389	0.53	0/4595
2	V9	0.25	0/3389	0.51	0/4595
2	W1	0.25	0/3389	0.52	0/4595
2	W3	0.25	0/3389	0.51	0/4595
2	W5	0.25	0/3389	0.53	0/4595
2	W7	0.28	0/3389	0.54	0/4595
2	W9	0.28	0/3389	0.56	3/4595 (0.1%)
2	X3	0.25	0/3389	0.51	0/4595
2	X5	0.25	0/3389	0.52	0/4595
2	X7	0.24	0/3389	0.52	0/4595
2	X9	0.25	0/3389	0.52	0/4595
2	Y1	0.25	0/3389	0.52	0/4595
2	Y3	0.26	0/3389	0.54	0/4595
2	Y5	0.27	0/3389	0.55	0/4595
2	Y9	0.26	0/3389	0.53	1/4595 (0.0%)
2	Z1	0.25	0/3389	0.51	0/4595
2	Z3	0.25	0/3389	0.50	0/4595
2	Z5	0.25	0/3389	0.51	0/4595
2	Z7	0.34	1/3389 (0.0%)	0.59	3/4595 (0.1%)
2	Z9	0.27	0/3389	0.55	0/4595

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
3	3V	0.25	0/2383	0.49	0/3226
3	3X	0.25	0/2383	0.49	0/3226
3	3Z	0.25	0/2383	0.48	0/3226
3	4B	0.25	0/2383	0.50	0/3226
3	4D	0.24	0/2383	0.48	0/3226
3	4F	0.25	0/2383	0.50	0/3226
3	4H	0.25	0/2383	0.49	0/3226
3	4J	0.25	0/2383	0.49	0/3226
3	GP	0.26	0/2383	0.50	0/3226
3	GR	0.25	0/2383	0.49	0/3226
3	GT	0.27	0/2383	0.49	0/3226
3	GV	0.25	0/2383	0.49	0/3226
3	GX	0.25	0/2383	0.50	0/3226
3	Nt	0.25	0/2383	0.49	0/3226
3	Nv	0.26	0/2383	0.50	0/3226
4	3W	0.26	0/1548	0.56	0/2090
4	3Y	0.25	0/1548	0.53	0/2090
4	4A	0.25	0/1548	0.54	0/2090
4	4C	0.25	0/1548	0.54	0/2090
4	4E	0.25	0/1548	0.53	0/2090
4	4G	0.26	0/1548	0.55	0/2090
4	4I	0.26	0/1548	0.54	0/2090
4	GO	0.27	0/1548	0.56	1/2090 (0.0%)
4	GQ	0.27	0/1548	0.55	0/2090
4	GS	0.31	0/1548	0.56	0/2090
4	GU	0.26	0/1548	0.54	0/2090
4	GW	0.26	0/1548	0.54	0/2090
4	Ns	0.25	0/1548	0.53	0/2090
4	Nu	0.24	0/1548	0.54	0/2090
4	Nw	0.26	0/1548	0.57	0/2090
5	4O	0.31	0/4020	0.59	0/5336
5	5D	0.33	0/4020	0.58	0/5336
5	Gd	0.31	0/998	0.54	0/1327
5	OA	0.29	0/1410	0.61	0/1864
6	4Q	0.27	0/1351	0.59	0/1797
6	4W	0.28	0/2999	0.59	0/4012
6	Nz	0.31	0/2517	0.63	0/3367
7	4R	0.27	0/3021	0.49	0/4049
7	Ga	0.27	0/3020	0.50	0/4046
7	Gf	0.29	0/2872	0.54	0/3850
7	Gi	0.27	0/1695	0.50	0/2282
7	Gj	0.27	0/2783	0.49	0/3726
7	OG	0.26	0/1626	0.47	0/2170

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
8	4X	0.29	0/3175	0.58	0/4209
8	5C	0.30	0/3120	0.58	0/4136
8	Go	0.32	0/1749	0.58	0/2318
8	Gp	0.35	0/3175	0.65	3/4209 (0.1%)
8	Gq	0.25	0/241	0.53	0/319
8	OD	0.30	0/3120	0.58	0/4136
8	OO	0.28	0/1357	0.54	0/1804
9	5E	0.25	0/2021	0.51	0/2754
9	Gr	0.27	0/2021	0.52	0/2754
9	OQ	0.26	0/799	0.52	0/1089
10	5F	0.26	0/3116	0.52	0/4267
10	7B	0.26	0/1428	0.54	0/1953
10	Gs	0.29	0/2547	0.54	0/3495
11	5H	0.26	0/1098	0.53	0/1490
11	5I	0.26	0/1098	0.51	0/1490
11	5J	0.26	0/1098	0.50	0/1490
11	5K	0.28	0/1098	0.54	0/1490
11	Gv	0.27	0/1098	0.54	0/1490
11	Gw	0.27	0/1098	0.51	0/1490
11	Gx	0.27	0/787	0.52	0/1069
11	OV	0.26	0/1098	0.50	0/1490
12	5L	0.25	0/4851	0.52	0/6582
12	5M	0.25	0/4851	0.52	0/6582
12	5N	0.26	0/4851	0.55	0/6582
12	Ad	0.27	0/4851	0.54	0/6582
12	Ae	0.26	0/4851	0.53	0/6582
12	Af	0.26	0/4851	0.54	0/6582
12	Eo	0.26	0/4851	0.54	0/6582
12	HG	0.25	0/4851	0.52	0/6582
13	5O	0.27	0/2991	0.56	0/4048
13	5P	0.25	0/2991	0.53	0/4048
13	Gy	0.27	0/2991	0.55	0/4048
13	Gz	0.26	0/2991	0.53	0/4048
13	OY	0.25	0/2991	0.54	0/4048
14	5Q	0.25	0/1564	0.53	0/2126
14	HA	0.25	0/1564	0.53	0/2126
14	OZ	0.28	0/139	0.47	0/187
15	5S	0.27	0/1612	0.52	0/2177
15	5T	0.26	0/1603	0.53	0/2165
15	5U	0.26	0/1612	0.49	0/2177
15	5V	0.26	0/1603	0.52	0/2165
15	HD	0.27	0/1603	0.52	0/2165
15	HE	0.26	0/1612	0.53	1/2177 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
15	Oc	0.26	0/521	0.52	0/706
15	Od	0.26	0/1612	0.57	1/2177 (0.0%)
16	5X	0.24	0/1835	0.47	0/2488
16	5Y	0.25	0/1835	0.48	0/2488
16	5Z	0.24	0/1835	0.46	0/2488
16	6A	0.25	0/1835	0.50	0/2488
16	6B	0.28	0/1835	0.51	0/2488
16	6C	0.25	0/1835	0.49	0/2488
16	6D	0.26	0/1835	0.49	0/2488
16	HH	0.25	0/1835	0.50	0/2488
16	HI	0.27	0/1835	0.53	0/2488
16	HJ	0.25	0/1835	0.48	0/2488
16	HK	0.26	0/1835	0.49	0/2488
16	HL	0.26	0/1835	0.48	0/2488
16	Oi	0.24	0/1835	0.47	0/2488
16	Oj	0.25	0/1835	0.50	0/2488
16	Ok	0.25	0/1835	0.48	0/2488
17	6E	0.26	0/1991	0.50	0/2713
17	HN	0.26	0/1991	0.50	0/2713
17	Om	0.27	0/1056	0.52	0/1443
18	6F	0.26	0/3010	0.54	0/4102
18	HO	0.29	0/3010	0.53	0/4102
18	On	0.25	0/3010	0.51	0/4102
18	zp	0.25	0/3010	0.54	0/4102
18	zq	0.26	0/3010	0.54	0/4102
19	6G	0.25	0/1450	0.53	0/1970
19	6H	0.25	0/1527	0.53	0/2078
19	HP	0.27	0/1450	0.53	0/1970
19	HQ	0.27	0/1527	0.52	0/2078
19	Op	0.25	0/1527	0.52	0/2078
20	6I	0.26	0/2678	0.50	0/3618
20	6J	0.25	0/2678	0.50	0/3618
20	6K	0.25	0/2678	0.50	0/3618
20	6L	0.26	0/2678	0.50	0/3618
20	6M	0.26	0/2678	0.51	0/3618
20	6N	0.28	0/2678	0.52	0/3618
20	6O	0.26	0/2678	0.50	0/3618
20	6P	0.28	0/2678	0.52	0/3618
20	HS	0.26	0/2678	0.51	0/3618
20	HT	0.27	0/2678	0.51	0/3618
20	HU	0.26	0/2678	0.50	0/3618
20	HV	0.27	0/2678	0.50	0/3618
20	HW	0.27	0/1844	0.50	0/2486

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
20	Ot	0.29	0/766	0.56	0/1032
20	Ou	0.25	0/2678	0.50	0/3618
20	Ov	0.25	0/2678	0.49	0/3618
21	6Q	0.26	0/710	0.57	0/957
21	6R	0.25	0/710	0.52	0/957
21	6S	0.25	0/710	0.53	0/957
21	HY	0.25	0/710	0.52	0/957
21	HZ	0.26	0/710	0.53	0/957
21	Ha	0.27	0/710	0.54	0/957
21	Oy	0.25	0/710	0.51	0/957
21	Oz	0.25	0/710	0.53	0/957
22	6T	0.25	0/4817	0.51	0/6510
22	6U	0.25	0/4818	0.53	0/6507
22	6V	0.25	0/4704	0.51	0/6352
22	6W	0.25	0/4780	0.52	0/6452
22	6X	0.25	0/4704	0.53	0/6352
22	6Y	0.27	0/4669	0.53	0/6303
22	6Z	0.26	0/4817	0.51	0/6510
22	Hb	0.26	0/4818	0.54	0/6507
22	Hc	0.27	0/4704	0.52	0/6352
22	Hd	0.27	0/4780	0.52	0/6452
22	He	0.27	0/4704	0.53	0/6352
22	Hf	0.28	0/4669	0.54	0/6303
22	Hg	0.27	0/349	0.47	0/474
22	PD	0.25	0/3528	0.51	0/4763
22	PE	0.25	0/4704	0.52	0/6352
22	PF	0.25	0/4669	0.52	0/6303
23	7C	0.31	0/700	0.68	0/937
23	Hj	0.33	0/700	0.69	1/937 (0.1%)
24	7D	0.26	0/1045	0.52	0/1416
24	7E	0.25	0/1045	0.54	0/1416
24	Hk	0.26	0/1045	0.55	0/1416
24	Hl	0.25	0/1045	0.53	0/1416
24	PK	0.25	0/1045	0.52	0/1416
25	7G	0.26	0/1771	0.53	0/2406
25	Hn	0.28	0/1771	0.54	0/2406
26	7H	0.26	0/3294	0.51	0/4491
26	7X	0.27	0/3294	0.52	0/4491
27	7I	0.25	0/3407	0.52	1/4623 (0.0%)
27	7J	0.26	0/2803	0.54	0/3802
27	Hp	0.27	0/1805	0.56	0/2446
28	7K	0.25	0/3351	0.56	1/4541 (0.0%)
28	Hq	0.27	0/3351	0.57	1/4541 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
28	Hr	0.28	0/819	0.56	0/1110
28	PQ	0.25	0/895	0.53	0/1217
29	7M	0.27	0/1000	0.56	0/1359
29	7N	0.26	0/1000	0.60	1/1359 (0.1%)
29	Ht	0.26	0/598	0.58	0/813
30	7P	0.25	0/1554	0.52	0/2108
30	Hv	0.25	0/1368	0.54	0/1858
30	PV	0.25	0/1554	0.54	0/2108
31	7Q	0.29	0/578	0.57	0/783
31	Hw	0.31	0/578	0.61	0/783
31	PW	0.26	0/578	0.55	0/783
31	zn	0.25	0/348	0.45	0/473
31	zo	0.28	0/348	0.46	0/473
32	7Y	0.25	0/2025	0.55	0/2749
32	ID	0.34	1/2025 (0.0%)	0.63	3/2749 (0.1%)
32	Pe	0.25	0/1706	0.56	0/2311
33	8B	0.25	0/1766	0.49	0/2366
33	8C	0.26	0/1766	0.53	0/2366
33	IG	0.25	0/1766	0.50	0/2366
33	IH	0.26	0/1766	0.50	0/2366
33	Pi	0.39	0/1766	0.51	0/2366
34	AA	0.23	0/1582	0.45	0/2135
34	Cb	0.23	0/1582	0.45	0/2135
34	Gg	0.23	0/1582	0.45	0/2135
34	Ll	0.23	0/1582	0.46	0/2135
35	AB	0.24	0/3333	0.53	0/4445
35	AY	0.23	0/3333	0.50	0/4445
35	Fb	0.26	0/2747	0.58	0/3665
35	MM	0.25	0/1251	0.55	0/1678
35	MR	0.26	0/3333	0.56	0/4445
35	MY	0.26	0/1691	0.56	0/2252
35	Ma	0.24	0/462	0.55	0/613
36	AC	0.24	0/1403	0.50	0/1885
36	AZ	0.25	0/1403	0.53	0/1885
36	Fn	0.25	0/1403	0.53	0/1885
36	LN	0.26	0/1403	0.56	0/1885
36	MO	0.24	0/1403	0.51	0/1885
37	AD	0.25	1/36792 (0.0%)	0.49	5/49750 (0.0%)
37	AX	0.24	0/36792	0.48	1/49750 (0.0%)
37	Fa	0.24	0/36792	0.48	0/49750
37	Ks	0.25	0/9670	0.50	0/13055
37	Lo	0.25	0/36792	0.51	1/49750 (0.0%)
38	AE	0.24	0/4974	0.53	0/6774

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
39	AF	0.24	0/4342	0.48	0/5896
40	AG	0.26	0/5760	0.53	0/7815
41	AH	0.25	0/1331	0.46	0/1808
42	AI	0.25	0/791	0.50	0/1072
42	Bc	0.24	0/752	0.57	0/1019
42	Bd	0.23	0/752	0.56	0/1019
42	GY	0.23	0/752	0.54	0/1019
42	LC	0.24	0/752	0.56	0/1019
42	MA	0.23	0/752	0.56	0/1019
43	AK	0.25	0/853	0.52	0/1150
43	BQ	0.24	0/840	0.57	0/1133
43	BR	0.25	0/840	0.58	0/1133
43	GN	0.25	0/840	0.58	0/1133
43	L8	0.25	0/840	0.55	0/1133
43	LB	0.25	0/840	0.60	0/1133
44	AL	0.24	0/741	0.49	0/996
44	AM	0.25	0/712	0.50	0/958
44	AN	0.24	0/742	0.44	0/996
44	AO	0.27	0/742	0.51	0/996
44	AP	0.25	0/742	0.50	0/996
44	AQ	0.25	0/742	0.49	0/996
44	Be	0.25	0/687	0.49	0/926
44	Bp	0.25	0/687	0.48	0/926
44	Bq	0.25	0/687	0.48	0/926
44	Br	0.25	0/687	0.48	0/926
44	CB	0.25	0/687	0.50	0/926
44	CC	0.25	0/687	0.48	0/926
44	CD	0.25	0/707	0.49	0/950
44	CO	0.24	0/707	0.46	0/950
44	FA	0.25	0/687	0.47	0/926
44	FB	0.24	0/707	0.51	0/950
44	GZ	0.26	0/687	0.49	0/926
44	Ge	0.26	0/687	0.52	0/926
44	I6	0.23	0/416	0.42	0/579
44	Io	0.23	0/416	0.42	0/579
44	Ip	0.23	0/416	0.42	0/579
44	Iq	0.23	0/416	0.40	0/579
44	Ir	0.23	0/416	0.42	0/579
44	Is	0.23	0/416	0.41	0/579
44	It	0.23	0/416	0.42	0/579
44	Iu	0.23	0/416	0.42	0/579
44	KM	0.25	0/702	0.46	0/945
44	KN	0.25	0/702	0.47	0/945

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
44	KO	0.24	0/702	0.48	0/945
44	KP	0.25	0/702	0.47	0/945
44	KQ	0.25	0/702	0.49	0/945
44	KR	0.27	0/702	0.49	0/945
44	KS	0.24	0/702	0.46	0/945
44	KT	0.26	0/702	0.46	0/945
44	Kc	0.24	0/702	0.46	0/945
44	Kd	0.25	0/702	0.46	0/945
44	Ke	0.24	0/702	0.45	0/945
44	Kf	0.27	0/702	0.56	0/945
44	LD	0.25	0/687	0.47	0/926
44	LE	0.26	0/687	0.53	0/926
44	LF	0.26	0/687	0.49	0/926
44	LG	0.24	0/707	0.45	0/950
44	MB	0.26	0/687	0.50	0/926
44	MC	0.25	0/687	0.47	0/926
44	MD	0.25	0/687	0.50	0/926
44	ME	0.24	0/707	0.50	0/950
45	AR	0.24	0/902	0.44	0/1223
46	AS	0.25	0/993	0.47	0/1342
47	AU	0.27	0/823	0.54	0/1108
47	Ca	0.25	0/823	0.52	0/1108
47	FN	0.30	0/823	0.58	0/1108
47	LM	0.27	0/823	0.58	0/1108
47	ML	0.27	0/823	0.56	0/1108
48	AV	0.27	0/2244	0.50	0/3002
49	AW	0.27	0/3325	0.58	0/4452
50	Aa	0.25	0/4788	0.51	0/6492
50	Ab	0.25	0/4788	0.51	1/6492 (0.0%)
50	Fo	0.25	0/4788	0.50	1/6492 (0.0%)
50	Kt	0.25	0/4788	0.51	1/6492 (0.0%)
50	Lp	0.24	0/4788	0.49	1/6492 (0.0%)
51	Ac	0.25	0/4284	0.52	0/5826
51	Aq	0.26	0/4284	0.55	0/5826
51	Fz	0.26	0/4284	0.53	0/5826
51	Ku	0.26	0/4284	0.53	0/5826
51	Lq	0.25	0/4284	0.52	2/5826 (0.0%)
52	Ar	0.24	0/1054	0.52	0/1417
52	As	0.25	0/1054	0.51	0/1417
52	GA	0.25	0/1054	0.49	0/1417
52	Kz	0.26	0/1054	0.52	0/1417
52	Lr	0.24	0/1054	0.48	0/1417
53	BC	0.25	0/1098	0.53	0/1471

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
53	BD	0.24	0/1098	0.51	0/1471
53	GL	0.24	0/1098	0.54	0/1471
53	K2	0.25	0/1098	0.54	0/1471
53	Lt	0.26	0/1098	0.54	0/1471
54	BE	0.34	0/900	0.51	0/1213
54	BP	0.25	0/900	0.44	0/1213
54	GM	0.24	0/900	0.43	0/1213
54	LA	0.25	0/900	0.49	0/1213
54	Lz	0.24	0/900	0.44	0/1213
55	CP	0.23	0/924	0.46	0/1253
55	CQ	0.24	0/924	0.46	0/1253
55	FM	0.24	0/924	0.46	0/1253
55	LL	0.24	0/924	0.48	0/1253
55	MK	0.24	0/924	0.48	0/1253
56	Cc	0.24	0/3262	0.48	0/4366
56	Cd	0.26	0/3262	0.54	0/4366
56	Gk	0.25	0/2690	0.51	0/3607
56	MN	0.26	0/1523	0.51	0/2053
56	MX	0.26	0/3271	0.51	0/4377
56	MZ	0.26	0/1748	0.50	0/2324
56	Mb	0.26	0/454	0.52	0/603
57	Cn	0.25	0/36614	0.50	1/49553 (0.0%)
58	Co	0.25	0/36571	0.48	0/49522
59	Cp	0.26	0/8667	0.51	1/11650 (0.0%)
59	Cq	0.26	0/8673	0.53	0/11658
60	D9	0.25	0/1879	0.50	0/2562
61	DA	0.24	0/35584	0.47	3/48213 (0.0%)
61	DP	0.24	1/35584 (0.0%)	0.47	3/48213 (0.0%)
61	Gl	0.24	0/35584	0.47	0/48213
61	Lm	0.25	0/35584	0.48	1/48213 (0.0%)
62	DB	0.25	1/36922 (0.0%)	0.49	4/49971 (0.0%)
62	Db	0.25	0/36922	0.49	1/49971 (0.0%)
62	Gt	0.25	0/36922	0.49	2/49971 (0.0%)
62	Kr	0.25	0/6302	0.49	0/8524
62	Ln	0.25	0/36922	0.49	1/49971 (0.0%)
63	DC	0.26	0/1024	0.43	0/1389
63	Dc	0.26	0/1024	0.43	0/1389
63	HB	0.26	0/1024	0.44	0/1389
63	Ly	0.26	0/1024	0.44	0/1389
64	DO	0.26	0/1235	0.53	0/1661
64	Dn	0.26	0/1235	0.53	0/1661
64	Gu	0.26	0/1235	0.53	0/1661
64	Ls	0.26	0/1235	0.54	0/1661

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
65	Do	0.26	0/11635	0.57	4/15744 (0.0%)
65	MP	0.32	0/750	0.67	0/1006
66	Dp	0.25	0/11855	0.54	2/16067 (0.0%)
66	MQ	0.25	0/944	0.57	0/1260
67	EA	0.26	0/4878	0.53	0/6539
68	EB	0.26	0/3823	0.57	1/5116 (0.0%)
69	EM	0.25	0/1639	0.51	0/2230
70	EN	0.29	0/3758	0.58	1/5012 (0.0%)
70	EO	0.29	0/3879	0.60	1/5182 (0.0%)
71	EZ	0.24	0/1334	0.47	0/1797
71	HF	0.24	0/1333	0.48	0/1797
71	HM	0.24	0/1333	0.47	0/1797
72	Ea	0.25	0/6777	0.50	2/9085 (0.0%)
73	Eb	0.25	0/11016	0.54	0/14901
74	Em	0.26	0/4295	0.53	2/5798 (0.0%)
75	En	1.52	6/3273 (0.2%)	0.60	1/4369 (0.0%)
76	Ey	0.44	2/2904 (0.1%)	0.58	1/3888 (0.0%)
77	Ez	0.25	0/3092	0.52	0/4182
78	F4	0.25	0/2782	0.52	0/3714
79	FO	0.25	0/1291	0.48	0/1727
79	JC	0.24	0/737	0.40	0/1018
80	FZ	0.25	0/1370	0.55	0/1821
80	Md	0.25	0/1370	0.56	0/1821
80	Ml	0.25	0/1227	0.53	0/1633
81	Fm	0.26	1/32018 (0.0%)	0.52	7/43384 (0.0%)
82	Fy	0.24	0/2619	0.53	0/3501
83	GK	0.25	0/1967	0.53	0/2650
84	Gb	0.28	0/2248	0.56	0/2995
84	Ny	0.24	0/263	0.55	0/353
84	OL	0.29	0/3871	0.56	0/5155
84	ON	0.30	0/3872	0.58	0/5158
85	Gc	0.31	0/3519	0.59	0/4691
85	Gm	0.32	0/2632	0.59	0/3503
85	Gn	0.31	0/1923	0.56	0/2566
86	Gh	0.24	0/2993	0.48	0/4052
86	JD	0.25	0/2992	0.51	0/4052
86	Km	0.26	0/2942	0.55	1/3985 (0.0%)
86	Ld	0.25	0/2992	0.49	0/4052
86	Mc	0.26	0/2993	0.51	0/4052
86	Mk	0.24	0/2993	0.49	0/4052
87	H0	0.24	0/3733	0.45	0/5092
87	Hz	0.24	0/3733	0.45	0/5092
87	JT	0.24	0/3733	0.45	0/5092

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
87	JZ	0.24	0/3733	0.46	0/5092
88	HX	0.26	0/5844	0.49	0/7949
88	Hh	0.26	0/5844	0.50	0/7949
88	JH	0.25	0/5844	0.49	0/7949
88	JM	0.26	0/5844	0.50	0/7949
89	Hi	0.24	0/3301	0.44	0/4467
89	Hm	0.24	0/3301	0.45	0/4467
89	JN	0.24	0/3301	0.45	0/4467
89	JO	0.25	0/3301	0.47	0/4467
90	Ho	0.26	0/2188	0.49	0/2951
90	Hs	0.27	0/2182	0.49	0/2942
90	JP	0.26	0/2448	0.51	0/3307
90	JQ	0.26	0/2615	0.53	0/3536
91	Hx	0.24	0/3289	0.46	0/4493
91	Hy	0.25	0/3289	0.47	0/4493
91	JR	0.24	0/3289	0.46	0/4493
91	JS	0.25	0/3289	0.47	0/4493
92	IA	0.25	0/3305	0.46	0/4527
92	IB	0.25	0/3305	0.46	0/4527
92	Ja	0.24	0/3305	0.46	0/4527
92	Jb	0.25	0/3305	0.46	0/4527
93	IC	0.27	0/383	0.47	0/517
93	IE	0.25	0/325	0.46	0/439
93	KD	0.29	0/363	0.50	0/491
93	KE	0.27	0/325	0.50	0/439
94	IF	0.24	0/1971	0.47	0/2681
94	II	0.24	0/1971	0.48	0/2681
94	IJ	0.24	0/1971	0.47	0/2681
94	IN	0.24	0/1971	0.48	0/2681
94	Jc	0.24	0/1971	0.46	0/2681
94	Jd	0.24	0/1971	0.47	0/2681
94	Je	0.24	0/1971	0.47	0/2681
94	Jf	0.25	0/1971	0.49	0/2681
95	IO	0.25	0/1585	0.45	0/2140
95	IP	0.25	0/1585	0.46	0/2140
95	Jg	0.25	0/1585	0.44	0/2140
95	Jm	0.25	0/1585	0.47	0/2140
96	IQ	0.24	0/390	0.44	0/530
96	IR	0.24	0/1059	0.41	0/1453
96	KF	0.25	0/399	0.50	0/543
96	KG	0.25	0/891	0.44	0/1221
97	IS	0.25	0/1273	0.48	0/1737
97	Jn	0.26	0/1273	0.50	0/1737

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
98	IT	0.24	0/2830	0.48	0/3851
99	IU	0.25	0/1736	0.48	0/2352
99	Ia	0.25	0/1736	0.47	0/2352
99	Ih	0.23	0/539	0.46	0/726
99	In	0.24	0/539	0.47	0/726
99	Jo	0.25	0/1736	0.48	0/2352
99	Jp	0.25	0/1736	0.47	0/2352
99	KA	0.23	0/539	0.47	0/726
99	KB	0.25	0/539	0.51	0/726
101	Ic	0.25	0/1594	0.47	0/2157
101	Id	0.25	0/1594	0.45	0/2157
101	Jq	0.25	0/1594	0.46	0/2157
101	Jr	0.25	0/1594	0.49	0/2157
102	Ie	0.24	0/1813	0.49	0/2482
102	Js	0.24	0/1813	0.48	0/2482
103	If	0.23	0/437	0.42	0/589
103	Ig	0.23	0/437	0.41	0/589
103	Jt	0.23	0/437	0.45	0/589
103	Jz	0.26	0/437	0.49	0/589
104	JA	0.24	0/886	0.52	0/1219
104	Ka	0.27	0/1688	0.58	0/2273
105	JB	0.23	0/1438	0.34	0/2003
106	JE	0.25	0/1686	0.54	0/2276
106	JF	0.34	0/1678	0.62	0/2264
106	Kn	0.37	0/1686	0.62	0/2271
106	Ko	0.27	0/1689	0.60	0/2276
106	La	1.48	1/1765 (0.1%)	0.65	2/2382 (0.1%)
106	Lb	0.28	0/1765	0.58	0/2382
107	JG	0.25	0/32236	0.52	3/43732 (0.0%)
109	KZ	0.25	0/2469	0.57	0/3363
110	Kb	0.23	0/1515	0.37	0/2108
111	Kg	0.25	0/31934	0.50	2/43293 (0.0%)
112	Kp	0.30	0/3405	0.61	0/4543
112	LR	0.30	0/3363	0.61	0/4491
113	Kq	0.31	0/3418	0.57	1/4582 (0.0%)
113	LS	0.31	0/3342	0.62	2/4466 (0.0%)
114	LO	0.26	0/8842	0.54	1/11980 (0.0%)
115	LP	0.29	0/4556	0.56	2/6070 (0.0%)
115	LQ	0.30	0/4507	0.54	0/6006
116	LY	0.26	0/7031	0.55	0/9596
117	LZ	0.25	0/8404	0.52	0/11442
118	Lc	0.69	14/32713 (0.0%)	0.54	6/44353 (0.0%)
119	Le	0.26	0/2919	0.55	0/3957

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
120	Lf	0.28	0/3081	0.55	0/4163
121	Lg	0.26	0/2790	0.59	1/3755 (0.0%)
122	Me	0.26	0/31553	0.54	1/42757 (0.0%)
123	Mm	0.25	0/31738	0.51	0/43006
124	za	0.27	0/830	0.51	0/1124
124	zb	0.26	0/1633	0.51	0/2214
124	zc	0.26	0/1633	0.49	0/2214
124	zd	0.26	0/1633	0.51	0/2214
124	ze	0.28	0/1633	0.57	0/2214
124	zf	0.27	0/1633	0.50	0/2214
124	zg	0.28	0/1633	0.50	0/2214
124	zh	0.27	0/1633	0.52	0/2214
124	zi	0.26	0/174	0.54	0/233
125	zj	0.25	0/1406	0.51	0/1926
125	zk	0.25	0/453	0.61	0/616
125	zl	0.30	0/1406	0.59	0/1926
126	zr	0.26	0/972	0.52	0/1321
126	zs	0.32	0/972	0.58	0/1321
127	zt	0.27	0/1547	0.56	0/2095
127	zu	0.25	0/1547	0.52	0/2095
127	zv	0.25	0/1547	0.55	0/2095
127	zw	0.26	0/1547	0.57	0/2095
127	zx	0.25	0/1547	0.55	0/2095
127	zy	0.25	0/1547	0.54	0/2095
127	zz	0.26	0/1547	0.56	0/2095
All	All	0.27	31/4030097 (0.0%)	0.51	141/5455458 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	0G	0	1
1	KJ	0	1
1	N8	0	1
1	NS	0	1
1	O4	0	1
1	Q6	0	1
1	Q8	0	2
1	S4	0	1
2	2P	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
2	BT	0	1
2	E3	0	1
2	Lx	0	1
2	NG	0	1
2	O7	0	1
12	5L	0	1
12	5N	0	1
12	Ad	0	1
12	Ae	0	1
37	AD	0	3
37	AX	0	3
37	Fa	0	3
37	Lo	0	2
40	AG	0	2
44	CB	0	1
52	As	0	1
57	Cn	0	3
61	DA	0	2
61	DP	0	2
61	Gl	0	2
61	Lm	0	1
62	DB	0	1
62	Db	0	1
62	Gt	0	3
62	Ln	0	1
65	Do	0	5
66	Dp	0	3
73	Eb	0	1
77	Ez	0	1
81	Fm	0	3
106	JE	0	1
106	Kn	0	1
107	JG	0	6
111	Kg	0	2
114	LO	0	1
118	Lc	0	2
122	Me	0	4
All	All	0	81

All (31) bond length outliers are listed below:

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
75	En	302	TRP	CE3-CZ3	61.30	2.42	1.38
106	La	233	GLN	CB-CG	60.90	3.17	1.52
118	Lc	1262	PHE	CE1-CZ	47.34	2.27	1.37
118	Lc	1262	PHE	CE2-CZ	41.89	2.17	1.37
118	Lc	1262	PHE	CD1-CE1	40.35	2.19	1.39
118	Lc	1262	PHE	CD2-CE2	39.74	2.18	1.39
75	En	302	TRP	CZ3-CH2	36.16	1.98	1.40
75	En	302	TRP	CE2-CZ2	32.25	1.94	1.39
118	Lc	813	PHE	CE2-CZ	32.16	1.98	1.37
118	Lc	813	PHE	CE1-CZ	30.27	1.94	1.37
118	Lc	813	PHE	CD1-CE1	29.29	1.97	1.39
118	Lc	813	PHE	CD2-CE2	28.87	1.97	1.39
118	Lc	1262	PHE	CG-CD2	27.14	1.79	1.38
118	Lc	1262	PHE	CG-CD1	27.14	1.79	1.38
75	En	302	TRP	CD2-CE2	23.77	1.69	1.41
118	Lc	813	PHE	CG-CD2	19.47	1.68	1.38
75	En	302	TRP	CZ2-CH2	19.45	1.74	1.37
118	Lc	813	PHE	CG-CD1	19.41	1.67	1.38
75	En	302	TRP	CD2-CE3	16.24	1.64	1.40
76	Ey	252	GLN	C-N	14.05	1.66	1.34
118	Lc	1232	ARG	CD-NE	13.28	1.69	1.46
2	Z7	89	PRO	CG-CD	-13.00	1.07	1.50
76	Ey	253	ILE	N-CA	11.46	1.69	1.46
1	EJ	32	PRO	CG-CD	-10.38	1.16	1.50
118	Lc	1232	ARG	NE-CZ	9.48	1.45	1.33
37	AD	4345	PRO	CG-CD	-9.31	1.20	1.50
32	ID	230	PRO	CG-CD	-9.26	1.20	1.50
81	Fm	3081	PRO	CG-CD	-9.15	1.20	1.50
62	DB	1724	PRO	CG-CD	-8.44	1.22	1.50
2	Mu	346	TRP	CB-CG	5.81	1.60	1.50
61	DP	1622	PRO	CG-CD	-5.19	1.33	1.50

All (141) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
118	Lc	1232	ARG	CD-NE-CZ	21.11	153.15	123.60
2	Z7	89	PRO	N-CD-CG	-15.35	80.18	103.20
65	Do	1537	LEU	CA-CB-CG	13.19	145.64	115.30
1	Q4	70	PRO	CA-N-CD	-12.35	94.22	111.50
118	Lc	1232	ARG	NE-CZ-NH1	12.31	126.45	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	EJ	32	PRO	N-CD-CG	-12.19	84.92	103.20
32	ID	230	PRO	N-CD-CG	-11.75	85.58	103.20
1	EJ	32	PRO	CA-N-CD	-11.47	95.44	111.50
1	Q6	70	PRO	CA-N-CD	-11.33	95.64	111.50
37	AD	4345	PRO	N-CD-CG	-11.02	86.68	103.20
32	ID	230	PRO	CA-N-CD	-10.96	96.15	111.50
81	Fm	3081	PRO	N-CD-CG	-10.89	86.87	103.20
62	DB	1724	PRO	N-CD-CG	-10.86	86.91	103.20
76	Ey	252	GLN	C-N-CA	10.71	148.49	121.70
81	Fm	3513	PRO	CA-N-CD	-10.44	96.88	111.50
61	DP	1622	PRO	CA-N-CD	-10.38	96.97	111.50
61	DA	1622	PRO	CA-N-CD	-10.00	97.50	111.50
106	La	233	GLN	CA-CB-CG	9.85	135.06	113.40
37	AD	4345	PRO	CA-N-CD	-9.28	98.51	111.50
81	Fm	3081	PRO	CA-N-CD	-9.26	98.53	111.50
75	En	302	TRP	CE3-CZ3-CH2	-8.96	111.35	121.20
2	Z7	89	PRO	CA-N-CD	-8.72	99.30	111.50
107	JG	792	LEU	CA-CB-CG	8.65	135.19	115.30
70	EO	69	LEU	CA-CB-CG	8.61	135.10	115.30
2	Z7	89	PRO	CA-CB-CG	-8.06	88.69	104.00
1	Q8	103	LYS	C-N-CA	7.71	138.48	122.30
2	L9	357	TYR	C-N-CA	-7.65	102.57	121.70
2	2V	364	PRO	CA-N-CD	-7.62	100.83	111.50
106	La	233	GLN	CB-CG-CD	7.51	131.12	111.60
8	Gp	477	LYS	CB-CA-C	7.49	125.39	110.40
65	Do	1535	ALA	C-N-CA	7.39	140.18	121.70
61	DP	1622	PRO	N-CD-CG	-7.29	92.26	103.20
111	Kg	2886	ILE	C-N-CD	-7.21	104.74	120.60
66	Dp	1714	MET	CA-CB-CG	7.16	125.47	113.30
2	Ee	70	LEU	C-N-CA	-7.13	103.88	121.70
61	DA	1622	PRO	N-CD-CG	-7.00	92.70	103.20
1	NH	246	LEU	CA-CB-CG	6.92	131.22	115.30
32	ID	230	PRO	CA-CB-CG	-6.91	90.86	104.00
86	Km	263	LEU	CA-CB-CG	6.83	131.02	115.30
1	EJ	32	PRO	CA-CB-CG	-6.82	91.04	104.00
1	Q8	173	PRO	N-CA-C	6.78	129.72	112.10
70	EN	83	MET	CA-CB-CG	6.77	124.81	113.30
81	Fm	3513	PRO	N-CD-CG	-6.64	93.25	103.20
8	Gp	491	ARG	CB-CA-C	-6.62	97.16	110.40
2	G9	364	PRO	CA-N-CD	-6.59	102.27	111.50
1	DG	305	PRO	CA-N-CD	-6.57	102.31	111.50
74	Em	32	PRO	N-CD-CG	-6.57	93.35	103.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	MF	35	GLN	C-N-CA	6.56	138.10	121.70
107	JG	791	ASP	N-CA-CB	-6.55	98.80	110.60
29	7N	6	PRO	CA-N-CD	-6.42	102.52	111.50
1	Q8	173	PRO	N-CA-CB	-6.41	95.56	102.60
118	Lc	1232	ARG	CG-CD-NE	6.38	125.20	111.80
81	Fm	1636	MET	CG-SD-CE	6.37	110.39	100.20
62	DB	1724	PRO	CA-N-CD	-6.32	102.65	111.50
61	Lm	3310	HIS	C-N-CA	-6.28	106.00	121.70
81	Fm	773	MET	CA-CB-CG	6.25	123.93	113.30
118	Lc	2547	LEU	CA-CB-CG	6.16	129.47	115.30
118	Lc	1262	PHE	CB-CG-CD2	-6.14	116.50	120.80
37	AD	4422	PRO	C-N-CA	6.14	137.04	121.70
1	P6	70	PRO	N-CD-CG	-6.07	94.10	103.20
113	Kq	54	LEU	CA-CB-CG	6.01	129.13	115.30
118	Lc	1262	PHE	CD1-CG-CD2	6.00	126.10	118.30
1	P6	70	PRO	CA-N-CD	-6.00	103.10	111.50
72	Ea	235	LEU	CA-CB-CG	5.98	129.06	115.30
1	Dv	121	ARG	CA-CB-CG	5.97	126.53	113.40
111	Kg	1933	SER	C-N-CD	-5.96	107.48	120.60
1	Q4	70	PRO	N-CD-CG	-5.92	94.32	103.20
66	Dp	479	GLY	N-CA-C	5.91	127.87	113.10
2	JV	87	PHE	C-N-CA	-5.90	106.95	121.70
1	MT	259	PRO	N-CD-CG	-5.89	94.37	103.20
8	Gp	487	PRO	N-CA-C	-5.87	96.84	112.10
68	EB	205	GLU	CA-CB-CG	5.83	126.22	113.40
2	Bx	87	PHE	C-N-CA	-5.79	107.23	121.70
113	LS	370	ARG	CB-CG-CD	5.77	126.61	111.60
65	Do	1533	ALA	C-N-CA	5.73	136.03	121.70
4	GO	171	LEU	CA-CB-CG	5.73	128.49	115.30
81	Fm	3081	PRO	CA-CB-CG	-5.72	93.13	104.00
61	DP	3310	HIS	C-N-CA	-5.69	107.47	121.70
121	Lg	548	LEU	CA-CB-CG	5.69	128.39	115.30
61	DA	3310	HIS	C-N-CA	-5.68	107.49	121.70
2	W9	167	LEU	CA-CB-CG	5.61	128.21	115.30
2	EP	37	PRO	N-CD-CG	-5.60	94.79	103.20
37	AD	2037	PRO	CA-N-CD	-5.59	103.67	111.50
2	Ev	87	PHE	C-N-CA	-5.56	107.79	121.70
1	Lj	70	PRO	CA-N-CD	-5.56	103.72	111.50
1	OG	11	GLN	CG-CD-OE1	-5.54	110.53	121.60
2	W9	357	TYR	C-N-CA	-5.52	107.89	121.70
62	Gt	1138	LEU	CA-CB-CG	5.51	127.97	115.30
2	EV	357	TYR	C-N-CA	-5.46	108.04	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
28	Hq	143	GLU	C-N-CA	-5.46	108.05	121.70
2	T7	195	LEU	CA-CB-CG	5.43	127.80	115.30
1	DI	65	LEU	CB-CG-CD2	5.43	120.23	111.00
62	DB	1138	LEU	CA-CB-CG	5.42	127.78	115.30
62	Db	1138	LEU	CA-CB-CG	5.42	127.77	115.30
37	AD	4345	PRO	CA-CB-CG	-5.42	93.70	104.00
1	EL	331	LEU	CA-CB-CG	5.41	127.75	115.30
1	El	271	THR	C-N-CD	-5.41	108.69	120.60
59	Cp	1082	LYS	CB-CG-CD	5.41	125.67	111.60
50	Lp	177	LEU	C-N-CA	5.38	135.14	121.70
2	J5	87	PHE	C-N-CA	-5.37	108.27	121.70
65	Do	1592	GLY	N-CA-C	5.36	126.50	113.10
15	HE	219	LEU	CA-CB-CG	5.35	127.61	115.30
62	Ln	1138	LEU	CA-CB-CG	5.35	127.61	115.30
1	EQ	355	ASP	CB-CG-OD2	5.34	123.11	118.30
72	Ea	452	LEU	CA-CB-CG	5.33	127.56	115.30
28	7K	143	GLU	C-N-CA	-5.32	108.41	121.70
50	Ab	177	LEU	C-N-CA	5.30	134.95	121.70
2	2P	204	LEU	CA-CB-CG	5.27	127.43	115.30
2	Bo	230	LEU	CA-CB-CG	5.26	127.39	115.30
2	F1	87	PHE	C-N-CA	-5.25	108.56	121.70
1	Q8	101	TRP	CA-CB-CG	5.25	123.67	113.70
37	AX	110	LEU	CA-CB-CG	5.23	127.32	115.30
2	Ec	70	LEU	C-N-CA	-5.22	108.66	121.70
23	Hj	91	GLU	CA-CB-CG	5.21	124.85	113.40
15	Od	219	LEU	CA-CB-CG	5.21	127.27	115.30
2	NG	390	ARG	CB-CA-C	5.20	120.80	110.40
51	Lq	43	PRO	CA-N-CD	-5.19	104.23	111.50
2	0X	87	PHE	C-N-CA	-5.17	108.77	121.70
107	JG	792	LEU	CB-CG-CD2	-5.15	102.24	111.00
37	Lo	3721	MET	CA-CB-CG	5.15	122.06	113.30
62	Gt	3915	ARG	C-N-CA	5.15	134.57	121.70
50	Fo	177	LEU	C-N-CA	5.13	134.53	121.70
74	Em	32	PRO	CA-N-CD	-5.13	104.32	111.50
62	DB	1724	PRO	CA-CB-CG	-5.12	94.27	104.00
115	LP	825	MET	CA-CB-CG	5.12	122.00	113.30
122	Me	1265	PRO	CA-N-CD	-5.12	104.33	111.50
27	7I	219	GLU	C-N-CA	5.10	134.45	121.70
51	Lq	57	MET	CB-CG-SD	5.09	127.67	112.40
1	M8	418	LEU	CA-CB-CG	5.07	126.96	115.30
114	LO	1668	ASP	CB-CG-OD2	5.06	122.86	118.30
1	W4	331	LEU	CA-CB-CG	5.05	126.92	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	KW	70	PRO	CA-N-CD	-5.05	104.43	111.50
113	LS	343	ARG	CA-CB-CG	5.05	124.50	113.40
1	JU	418	LEU	CA-CB-CG	5.03	126.88	115.30
1	Z8	300	MET	CA-CB-CG	5.03	121.86	113.30
50	Kt	177	LEU	C-N-CA	5.03	134.28	121.70
2	Y9	322	ASP	CB-CG-OD1	5.03	122.83	118.30
115	LP	630	LEU	CA-CB-CG	5.03	126.87	115.30
57	Cn	1942	MET	CA-CB-CG	5.02	121.84	113.30
2	Lk	256	GLN	CA-CB-CG	5.00	124.40	113.40
2	W9	136	LEU	CA-CB-CG	5.00	126.81	115.30

There are no chirality outliers.

All (81) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	0G	10	GLY	Peptide
2	2P	205	ASP	Peptide
2	2P	208	ALA	Peptide
12	5L	159	SER	Peptide
12	5N	159	SER	Peptide
37	AD	2095	ILE	Peptide
37	AD	2731	ARG	Peptide
37	AD	3779	LYS	Peptide
40	AG	589	SER	Peptide
40	AG	590	THR	Peptide
37	AX	2731	ARG	Peptide
37	AX	3654	ARG	Sidechain
37	AX	3779	LYS	Peptide
12	Ad	159	SER	Peptide
12	Ae	159	SER	Peptide
52	As	72	ARG	Sidechain
2	BT	267	PHE	Peptide
44	CB	19	MET	Peptide
57	Cn	3360	ASP	Peptide
57	Cn	3909	LYS	Peptide
57	Cn	4230	ILE	Peptide
61	DA	3763	PRO	Peptide
61	DA	4153	ALA	Peptide
62	DB	2744	LYS	Peptide
61	DP	3763	PRO	Peptide
61	DP	4153	ALA	Peptide
62	Db	2744	LYS	Peptide

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Mol	Chain	Res	Type	Group
65	Do	1535	ALA	Peptide
65	Do	1537	LEU	Peptide
65	Do	1552	GLU	Peptide
65	Do	1593	ALA	Peptide
65	Do	1594	ALA	Peptide
66	Dp	273	GLU	Peptide
66	Dp	477	GLU	Peptide
66	Dp	515	SER	Peptide
2	E3	267	PHE	Peptide
73	Eb	892	ALA	Peptide
77	Ez	386	ARG	Sidechain
37	Fa	1647	ALA	Peptide
37	Fa	2729	MET	Peptide
37	Fa	3779	LYS	Peptide
81	Fm	1303	MET	Peptide
81	Fm	1305	SER	Peptide
81	Fm	996	MET	Peptide
61	Gl	3763	PRO	Peptide
61	Gl	4153	ALA	Peptide
62	Gt	2744	LYS	Peptide
62	Gt	4106	GLU	Peptide
62	Gt	4232	PRO	Peptide
106	JE	173	MET	Peptide
107	JG	3392	ASN	Peptide
107	JG	4051	PHE	Peptide
107	JG	790	GLY	Peptide
107	JG	791	ASP	Peptide
107	JG	792	LEU	Peptide
107	JG	905	VAL	Peptide
1	KJ	282	ARG	Sidechain
111	Kg	1933	SER	Peptide
111	Kg	2886	ILE	Peptide
106	Kn	153	GLU	Mainchain
114	LO	499	ASP	Peptide
118	Lc	1000	VAL	Peptide
118	Lc	1264	ALA	Peptide
61	Lm	4153	ALA	Peptide
62	Ln	2744	LYS	Peptide
37	Lo	2729	MET	Peptide
37	Lo	3779	LYS	Peptide
2	Lx	282	TYR	Peptide
122	Me	1224	HIS	Peptide

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Mol	Chain	Res	Type	Group
122	Me	2389	VAL	Peptide
122	Me	3471	ILE	Peptide
122	Me	3777	VAL	Peptide
1	N8	390	ARG	Peptide
2	NG	390	ARG	Mainchain
1	NS	294	TRP	Peptide
1	O4	267	MET	Peptide
2	O7	267	PHE	Peptide
1	Q6	91	VAL	Peptide
1	Q8	103	LYS	Mainchain,Peptide
1	S4	306	ARG	Peptide

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](#)

There are no protein backbone outliers to report in this entry.

5.3.2 Protein sidechains [i](#)

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

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry

Of 1009 ligands modelled in this entry, 338 are monoatomic - leaving 671 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
128	GTP	M4	501	130	29,34,34	1.26	3 (10%)	35,54,54	1.27	4 (11%)
129	GDP	S6	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.08	2 (6%)
129	GDP	D8	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.17	3 (10%)
129	GDP	M0	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	LH	501	-	29,34,34	1.24	2 (6%)	35,54,54	1.24	4 (11%)
129	GDP	Cv	503	-	25,30,30	0.96	1 (4%)	30,47,47	1.07	2 (6%)
129	GDP	Ay	503	-	25,30,30	0.94	1 (4%)	30,47,47	1.09	2 (6%)
128	GTP	R6	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.27	4 (11%)
128	GTP	M2	501	130	29,34,34	1.25	3 (10%)	35,54,54	1.27	4 (11%)
128	GTP	3K	501	130	29,34,34	1.25	3 (10%)	35,54,54	1.26	4 (11%)
129	GDP	MV	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.09	2 (6%)
128	GTP	X4	501	130	29,34,34	1.29	3 (10%)	35,54,54	1.31	5 (14%)
129	GDP	Fg	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	1A	502	-	25,30,30	1.00	1 (4%)	30,47,47	1.15	3 (10%)
129	GDP	G8	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.06	2 (6%)
129	GDP	Al	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.08	2 (6%)
129	GDP	X0	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	EL	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.08	2 (6%)
129	GDP	M4	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.09	2 (6%)
128	GTP	D1	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.25	3 (8%)
128	GTP	FT	502	130	29,34,34	1.23	2 (6%)	35,54,54	1.27	4 (11%)
128	GTP	0A	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.25	4 (11%)
128	GTP	E1	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.25	4 (11%)
129	GDP	C2	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	T4	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.27	4 (11%)
128	GTP	DT	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.29	4 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
129	GDP	Dv	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	C0	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.05	2 (6%)
128	GTP	R2	502	130	29,34,34	1.24	2 (6%)	35,54,54	1.27	4 (11%)
128	GTP	B2	501	130	29,34,34	1.21	2 (6%)	35,54,54	1.25	4 (11%)
129	GDP	LH	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	NS	502	-	25,30,30	0.99	1 (4%)	30,47,47	1.10	2 (6%)
129	GDP	V8	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	DG	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.27	4 (11%)
129	GDP	Bw	503	-	25,30,30	0.96	1 (4%)	30,47,47	1.10	2 (6%)
129	GDP	Jw	502	-	25,30,30	0.99	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	1E	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.13	4 (13%)
129	GDP	EJ	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.08	1 (3%)
128	GTP	Mg	501	130	29,34,34	1.23	3 (10%)	35,54,54	1.25	4 (11%)
129	GDP	T8	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.10	2 (6%)
128	GTP	C8	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.28	4 (11%)
129	GDP	B1	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	Z2	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.23	4 (11%)
129	GDP	Ew	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.09	1 (3%)
128	GTP	O8	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.28	3 (8%)
129	GDP	S2	502	-	25,30,30	0.94	1 (4%)	30,47,47	1.10	2 (6%)
129	GDP	3I	502	-	25,30,30	0.99	1 (4%)	30,47,47	1.09	2 (6%)
128	GTP	U6	501	130	29,34,34	1.27	4 (13%)	35,54,54	1.27	4 (11%)
129	GDP	Mi	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	0W	501	-	25,30,30	1.00	1 (4%)	30,47,47	1.14	3 (10%)
128	GTP	Ao	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.40	6 (17%)
128	GTP	U9	501	130	29,34,34	1.21	2 (6%)	35,54,54	1.28	4 (11%)
129	GDP	X6	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	Ba	501	130	29,34,34	1.26	3 (10%)	35,54,54	1.28	5 (14%)
129	GDP	C8	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.05	2 (6%)
128	GTP	GI	501	130	29,34,34	1.26	3 (10%)	35,54,54	1.33	4 (11%)
128	GTP	0M	501	130	29,34,34	1.27	3 (10%)	35,54,54	1.27	4 (11%)
129	GDP	2M	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.11	2 (6%)
129	GDP	Z2	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	R8	502	130	29,34,34	1.26	2 (6%)	35,54,54	1.26	5 (14%)
128	GTP	Eh	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.25	4 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
129	GDP	0O	502	-	25,30,30	0.94	1 (4%)	30,47,47	1.10	3 (10%)
129	GDP	Lw	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.07	2 (6%)
129	GDP	IM	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	BK	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	Es	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.29	5 (14%)
129	GDP	B5	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	T2	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.10	2 (6%)
128	GTP	EU	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.29	4 (11%)
128	GTP	0Y	501	130	29,34,34	1.22	3 (10%)	35,54,54	1.27	4 (11%)
128	GTP	DV	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.32	4 (11%)
128	GTP	L6	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.28	4 (11%)
129	GDP	Mv	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.12	2 (6%)
128	GTP	Bl	501	130	29,34,34	1.26	2 (6%)	35,54,54	1.26	4 (11%)
128	GTP	LU	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.26	4 (11%)
128	GTP	J8	502	130	29,34,34	1.24	2 (6%)	35,54,54	1.28	4 (11%)
129	GDP	J0	502	-	25,30,30	0.99	1 (4%)	30,47,47	1.11	2 (6%)
129	GDP	0M	502	-	25,30,30	1.01	1 (4%)	30,47,47	1.11	2 (6%)
129	GDP	K4	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.10	2 (6%)
128	GTP	Cv	502	130	29,34,34	1.22	2 (6%)	35,54,54	1.30	4 (11%)
129	GDP	Fk	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.12	2 (6%)
129	GDP	Di	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	Dz	502	-	25,30,30	0.94	1 (4%)	30,47,47	1.07	2 (6%)
129	GDP	CE	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.11	2 (6%)
129	GDP	Mt	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.13	2 (6%)
128	GTP	Df	501	130	29,34,34	1.21	2 (6%)	35,54,54	1.26	4 (11%)
129	GDP	W2	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.10	2 (6%)
128	GTP	C0	501	130	29,34,34	1.26	2 (6%)	35,54,54	1.29	4 (11%)
129	GDP	2E	502	-	25,30,30	0.99	1 (4%)	30,47,47	1.09	2 (6%)
128	GTP	G0	501	130	29,34,34	1.26	3 (10%)	35,54,54	1.26	4 (11%)
129	GDP	R2	503	-	25,30,30	0.97	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	A6	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.06	2 (6%)
129	GDP	2G	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.09	2 (6%)
128	GTP	3C	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.27	4 (11%)
129	GDP	CM	503	-	25,30,30	0.95	1 (4%)	30,47,47	1.09	2 (6%)
128	GTP	A9	501	130	29,34,34	1.25	3 (10%)	35,54,54	1.24	4 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
128	GTP	IW	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.28	4 (11%)
128	GTP	CI	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.29	4 (11%)
128	GTP	B7	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.24	4 (11%)
129	GDP	A5	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.08	2 (6%)
129	GDP	E4	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.07	2 (6%)
129	GDP	Y6	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	W8	501	130	29,34,34	1.21	2 (6%)	35,54,54	1.25	4 (11%)
128	GTP	V3	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.27	4 (11%)
128	GTP	GF	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.33	4 (11%)
129	GDP	N0	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.12	2 (6%)
129	GDP	DI	501	-	25,30,30	0.93	1 (4%)	30,47,47	1.11	2 (6%)
129	GDP	LX	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	Dg	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.10	2 (6%)
128	GTP	BJ	501	130	29,34,34	1.20	2 (6%)	35,54,54	1.29	3 (8%)
129	GDP	1K	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.10	2 (6%)
129	GDP	J6	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.07	2 (6%)
129	GDP	Jy	502	-	25,30,30	0.99	1 (4%)	30,47,47	1.10	2 (6%)
128	GTP	FJ	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.25	4 (11%)
128	GTP	De	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.27	4 (11%)
129	GDP	1O	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.10	2 (6%)
129	GDP	DK	502	-	25,30,30	0.94	1 (4%)	30,47,47	1.13	2 (6%)
128	GTP	BY	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.39	7 (20%)
128	GTP	S2	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.27	4 (11%)
129	GDP	S8	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.07	2 (6%)
129	GDP	Ft	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.10	2 (6%)
128	GTP	Bo	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.25	4 (11%)
129	GDP	NH	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	H4	501	-	25,30,30	1.00	1 (4%)	30,47,47	1.14	2 (6%)
128	GTP	M6	501	130	29,34,34	1.27	3 (10%)	35,54,54	1.26	4 (11%)
129	GDP	FV	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.10	2 (6%)
128	GTP	IK	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.24	4 (11%)
128	GTP	3S	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.29	4 (11%)
129	GDP	R8	503	-	25,30,30	0.97	1 (4%)	30,47,47	1.14	3 (10%)
128	GTP	3A	501	130	29,34,34	1.20	2 (6%)	35,54,54	1.27	4 (11%)
128	GTP	3I	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.26	4 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
129	GDP	L4	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.10	2 (6%)
128	GTP	1W	501	130	29,34,34	1.21	2 (6%)	35,54,54	1.31	4 (11%)
129	GDP	De	502	-	25,30,30	0.94	1 (4%)	30,47,47	1.06	2 (6%)
129	GDP	Eq	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	V0	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.05	2 (6%)
128	GTP	BB	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.27	4 (11%)
128	GTP	Lv	501	130	29,34,34	1.26	3 (10%)	35,54,54	1.28	4 (11%)
128	GTP	CR	502	130	29,34,34	1.24	2 (6%)	35,54,54	1.28	4 (11%)
128	GTP	Kv	501	130	29,34,34	1.26	4 (13%)	35,54,54	1.26	4 (11%)
129	GDP	CV	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.10	2 (6%)
129	GDP	Ce	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.11	2 (6%)
129	GDP	L2	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	8H	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.26	4 (11%)
129	GDP	M6	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	1G	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.30	4 (11%)
129	GDP	8N	501	-	25,30,30	1.01	2 (8%)	30,47,47	1.11	2 (6%)
129	GDP	BO	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	IK	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	O6	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.05	2 (6%)
128	GTP	U2	501	130	29,34,34	1.27	3 (10%)	35,54,54	1.27	4 (11%)
128	GTP	8I	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.26	4 (11%)
128	GTP	Y0	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.24	4 (11%)
129	GDP	G0	502	-	25,30,30	0.99	1 (4%)	30,47,47	1.08	2 (6%)
129	GDP	3O	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	T2	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.26	4 (11%)
128	GTP	G1	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.24	4 (11%)
128	GTP	DR	501	130	29,34,34	1.27	2 (6%)	35,54,54	1.30	4 (11%)
128	GTP	Bz	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.30	4 (11%)
129	GDP	Nf	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
129	GDP	A3	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.15	3 (10%)
129	GDP	BB	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.06	2 (6%)
129	GDP	Iy	502	-	25,30,30	0.99	1 (4%)	30,47,47	1.06	2 (6%)
129	GDP	R4	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.13	3 (10%)
128	GTP	EY	501	130	29,34,34	1.26	3 (10%)	35,54,54	1.25	3 (8%)
128	GTP	NW	501	130	29,34,34	1.24	3 (10%)	35,54,54	1.26	4 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
128	GTP	1X	501	130	29,34,34	1.21	2 (6%)	35,54,54	1.29	3 (8%)
129	GDP	J4	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	Nh	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	DV	502	-	25,30,30	0.93	1 (4%)	30,47,47	1.11	2 (6%)
129	GDP	8J	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	N1	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.30	4 (11%)
129	GDP	T4	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.10	2 (6%)
129	GDP	Jj	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	Dk	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.26	4 (11%)
128	GTP	Ni	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.29	4 (11%)
129	GDP	JJ	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	L4	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.28	4 (11%)
129	GDP	Cr	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.07	2 (6%)
129	GDP	I8	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	D0	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.07	2 (6%)
129	GDP	P8	502	-	25,30,30	1.01	1 (4%)	30,47,47	1.14	3 (10%)
129	GDP	DR	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.08	2 (6%)
129	GDP	Z0	502	-	25,30,30	0.99	1 (4%)	30,47,47	1.08	2 (6%)
129	GDP	EY	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	GB	501	130	29,34,34	1.27	2 (6%)	35,54,54	1.31	5 (14%)
129	GDP	Ck	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	CM	502	130	29,34,34	1.25	2 (6%)	35,54,54	1.35	4 (11%)
128	GTP	W0	501	130	29,34,34	1.25	3 (10%)	35,54,54	1.27	3 (8%)
129	GDP	O0	502	-	25,30,30	0.99	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	Lj	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.10	2 (6%)
129	GDP	NJ	502	-	25,30,30	1.00	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	U4	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.08	2 (6%)
129	GDP	Il	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.11	2 (6%)
129	GDP	FP	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.16	2 (6%)
129	GDP	Cz	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	FI	501	130	29,34,34	1.25	3 (10%)	35,54,54	1.29	4 (11%)
128	GTP	Mh	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.25	4 (11%)
129	GDP	H2	502	-	25,30,30	1.00	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	O8	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	Fl	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.30	4 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
129	GDP	Nj	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.07	2 (6%)
129	GDP	Z4	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.08	2 (6%)
129	GDP	O4	503	-	25,30,30	0.97	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	Fp	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	EU	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	8L	501	130	29,34,34	1.25	3 (10%)	35,54,54	1.28	4 (11%)
129	GDP	Fx	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.07	2 (6%)
129	GDP	Kx	502	-	25,30,30	0.99	1 (4%)	30,47,47	1.12	2 (6%)
129	GDP	1U	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.11	2 (6%)
129	GDP	P4	503	-	25,30,30	0.97	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	2W	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.26	4 (11%)
129	GDP	2K	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.11	2 (6%)
129	GDP	Kv	503	-	25,30,30	0.98	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	W4	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.26	4 (11%)
129	GDP	Fc	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.06	2 (6%)
129	GDP	N6	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.05	2 (6%)
129	GDP	C6	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	0K	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.29	4 (11%)
128	GTP	BW	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.34	4 (11%)
128	GTP	C1	501	130	29,34,34	1.21	2 (6%)	35,54,54	1.27	4 (11%)
128	GTP	C9	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.26	3 (8%)
129	GDP	Dm	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	F6	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	I4	502	130	29,34,34	1.24	2 (6%)	35,54,54	1.27	4 (11%)
128	GTP	Du	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.28	4 (11%)
129	GDP	0I	503	-	25,30,30	0.99	1 (4%)	30,47,47	1.10	2 (6%)
129	GDP	3Q	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	Ct	501	130	29,34,34	1.21	2 (6%)	35,54,54	1.25	3 (8%)
128	GTP	1Q	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.27	4 (11%)
129	GDP	M2	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	Z7	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.27	4 (11%)
129	GDP	CR	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.10	2 (6%)
129	GDP	BW	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.06	2 (6%)
129	GDP	Ju	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	X4	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.07	2 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
129	GDP	R0	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	W2	501	130	29,34,34	1.25	3 (10%)	35,54,54	1.28	4 (11%)
128	GTP	1N	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.28	4 (11%)
128	GTP	1A	501	130	29,34,34	1.24	3 (10%)	35,54,54	1.28	4 (11%)
128	GTP	Jl	502	130	29,34,34	1.23	2 (6%)	35,54,54	1.28	5 (14%)
128	GTP	Ak	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.32	4 (11%)
129	GDP	A1	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.06	1 (3%)
128	GTP	JW	502	130	29,34,34	1.25	2 (6%)	35,54,54	1.26	4 (11%)
129	GDP	Ef	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.08	2 (6%)
129	GDP	Bu	502	-	25,30,30	0.94	1 (4%)	30,47,47	1.07	2 (6%)
129	GDP	CX	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	3G	501	130	29,34,34	1.26	3 (10%)	35,54,54	1.28	4 (11%)
128	GTP	An	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.25	4 (11%)
128	GTP	Q4	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.29	4 (11%)
129	GDP	Ct	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	2A	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.27	4 (11%)
128	GTP	BH	501	130	29,34,34	1.21	2 (6%)	35,54,54	1.27	3 (8%)
129	GDP	CZ	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.10	2 (6%)
129	GDP	W8	502	-	25,30,30	0.94	1 (4%)	30,47,47	1.11	2 (6%)
128	GTP	Ed	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.33	5 (14%)
128	GTP	BG	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.30	4 (11%)
128	GTP	Fr	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.29	4 (11%)
129	GDP	1Q	502	-	25,30,30	0.99	1 (4%)	30,47,47	1.12	2 (6%)
129	GDP	FI	502	-	25,30,30	0.99	1 (4%)	30,47,47	1.12	2 (6%)
129	GDP	FX	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.10	1 (3%)
129	GDP	W4	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	0G	501	-	25,30,30	1.12	2 (8%)	30,47,47	1.98	9 (30%)
129	GDP	A9	502	-	25,30,30	0.99	1 (4%)	30,47,47	1.11	2 (6%)
128	GTP	Q6	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.28	4 (11%)
128	GTP	Ag	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.26	4 (11%)
129	GDP	DG	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.11	2 (6%)
129	GDP	F0	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.06	2 (6%)
128	GTP	H8	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.25	4 (11%)
129	GDP	DE	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.08	1 (3%)
128	GTP	F3	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.25	4 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
128	GTP	X6	501	130	29,34,34	1.24	3 (10%)	35,54,54	1.26	4 (11%)
129	GDP	0A	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
129	GDP	F8	502	-	25,30,30	1.00	1 (4%)	30,47,47	1.12	3 (10%)
128	GTP	0V	501	130	29,34,34	1.25	3 (10%)	35,54,54	1.23	4 (11%)
128	GTP	O4	502	130	29,34,34	1.23	2 (6%)	35,54,54	1.24	4 (11%)
128	GTP	2Y	501	130	29,34,34	1.26	4 (13%)	35,54,54	1.28	4 (11%)
128	GTP	FG	501	130	29,34,34	1.27	3 (10%)	35,54,54	1.28	5 (14%)
128	GTP	A2	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.41	6 (17%)
128	GTP	JX	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.27	4 (11%)
128	GTP	0F	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.24	4 (11%)
129	GDP	Y8	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.07	2 (6%)
129	GDP	W6	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.07	2 (6%)
129	GDP	Y0	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.08	2 (6%)
129	GDP	D2	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	BL	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.29	3 (8%)
128	GTP	Z0	501	130	29,34,34	1.28	4 (13%)	35,54,54	1.27	4 (11%)
129	GDP	CK	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	Cr	502	130	29,34,34	1.24	3 (10%)	35,54,54	1.25	5 (14%)
129	GDP	8H	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.07	2 (6%)
129	GDP	E2	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.06	2 (6%)
129	GDP	Y4	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	Eu	501	130	29,34,34	1.31	3 (10%)	35,54,54	1.25	4 (11%)
129	GDP	FT	503	-	25,30,30	0.94	1 (4%)	30,47,47	1.10	2 (6%)
129	GDP	0Y	502	-	25,30,30	1.00	1 (4%)	30,47,47	1.16	2 (6%)
129	GDP	G2	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.07	2 (6%)
129	GDP	2W	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.11	2 (6%)
128	GTP	F5	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.24	4 (11%)
129	GDP	A7	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.06	2 (6%)
128	GTP	FQ	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.26	4 (11%)
129	GDP	BI	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.12	2 (6%)
129	GDP	Dx	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.09	2 (6%)
128	GTP	KL	501	130	29,34,34	1.26	3 (10%)	35,54,54	1.29	4 (11%)
128	GTP	M0	501	130	29,34,34	1.25	3 (10%)	35,54,54	1.27	4 (11%)
129	GDP	Dr	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	At	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.30	4 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
128	GTP	Cg	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.28	4 (11%)
129	GDP	J8	503	-	25,30,30	0.96	1 (4%)	30,47,47	1.09	2 (6%)
128	GTP	J2	501	130	29,34,34	1.25	3 (10%)	35,54,54	1.26	4 (11%)
129	GDP	Bh	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	Lu	501	-	29,34,34	1.25	3 (10%)	35,54,54	1.25	4 (11%)
128	GTP	3O	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.30	3 (8%)
129	GDP	Es	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.09	2 (6%)
128	GTP	Q2	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.25	4 (11%)
129	GDP	I2	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.11	2 (6%)
128	GTP	KU	501	-	29,34,34	1.23	2 (6%)	35,54,54	1.27	4 (11%)
128	GTP	KW	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.27	4 (11%)
129	GDP	Q2	502	-	25,30,30	1.00	1 (4%)	30,47,47	1.14	3 (10%)
129	GDP	L6	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.09	2 (6%)
128	GTP	Cm	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.30	4 (11%)
128	GTP	Fx	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.27	4 (11%)
129	GDP	H8	503	-	25,30,30	0.99	1 (4%)	30,47,47	1.10	2 (6%)
128	GTP	P8	501	130	29,34,34	1.25	3 (10%)	35,54,54	1.26	4 (11%)
129	GDP	BG	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.07	2 (6%)
129	GDP	V4	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.10	2 (6%)
129	GDP	LT	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	3C	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.09	2 (6%)
128	GTP	Jj	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.25	4 (11%)
129	GDP	Bs	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.14	2 (6%)
128	GTP	0R	502	130	29,34,34	1.25	3 (10%)	35,54,54	1.25	4 (11%)
128	GTP	3P	501	130	29,34,34	1.26	3 (10%)	35,54,54	1.36	5 (14%)
128	GTP	Fe	501	130	29,34,34	1.23	3 (10%)	35,54,54	1.27	4 (11%)
128	GTP	Fc	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.29	4 (11%)
129	GDP	EH	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	1S	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.28	4 (11%)
129	GDP	MT	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
128	GTP	Ft	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.29	4 (11%)
128	GTP	Bw	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.26	4 (11%)
129	GDP	FK	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.10	2 (6%)
128	GTP	Cj	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.30	4 (11%)
128	GTP	O2	501	130	29,34,34	1.27	3 (10%)	35,54,54	1.30	4 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
128	GTP	I5	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.27	4 (11%)
129	GDP	Jh	503	-	25,30,30	0.99	1 (4%)	30,47,47	1.08	2 (6%)
129	GDP	FG	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.16	4 (13%)
129	GDP	Fi	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.08	2 (6%)
129	GDP	DX	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.09	2 (6%)
128	GTP	2U	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.27	4 (11%)
129	GDP	IW	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.09	2 (6%)
128	GTP	Mu	501	130	29,34,34	1.21	2 (6%)	35,54,54	1.28	4 (11%)
128	GTP	1H	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.26	4 (11%)
129	GDP	JL	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	O6	501	130	29,34,34	1.21	2 (6%)	35,54,54	1.35	3 (8%)
128	GTP	Lh	501	-	29,34,34	1.26	4 (13%)	35,54,54	1.27	4 (11%)
128	GTP	1T	501	130	29,34,34	1.20	2 (6%)	35,54,54	1.28	4 (11%)
128	GTP	K0	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.27	4 (11%)
128	GTP	P9	501	130	29,34,34	1.26	3 (10%)	35,54,54	1.28	4 (11%)
128	GTP	EH	501	130	29,34,34	1.24	3 (10%)	35,54,54	1.28	4 (11%)
128	GTP	X7	501	130	29,34,34	1.26	3 (10%)	35,54,54	1.37	4 (11%)
129	GDP	L0	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	BN	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.27	3 (8%)
128	GTP	2Q	501	130	29,34,34	1.27	3 (10%)	35,54,54	1.26	4 (11%)
129	GDP	AJ	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.12	2 (6%)
129	GDP	Fv	502	-	25,30,30	0.93	1 (4%)	30,47,47	1.10	2 (6%)
128	GTP	H2	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.25	4 (11%)
128	GTP	A1	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.26	4 (11%)
128	GTP	J4	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.27	3 (8%)
129	GDP	Cg	502	-	25,30,30	0.94	1 (4%)	30,47,47	1.05	2 (6%)
128	GTP	I1	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.25	4 (11%)
128	GTP	DX	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.26	4 (11%)
129	GDP	Jl	503	-	25,30,30	0.99	1 (4%)	30,47,47	1.10	2 (6%)
128	GTP	Nf	501	-	29,34,34	1.26	3 (10%)	35,54,54	1.25	4 (11%)
128	GTP	Y4	501	130	29,34,34	1.26	3 (10%)	35,54,54	1.30	4 (11%)
128	GTP	Kj	502	130	29,34,34	1.23	2 (6%)	35,54,54	1.26	4 (11%)
129	GDP	KH	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.07	2 (6%)
129	GDP	U8	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	I8	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.26	4 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
129	GDP	EW	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.09	2 (6%)
128	GTP	S8	501	130	29,34,34	1.25	3 (10%)	35,54,54	1.25	4 (11%)
128	GTP	0O	501	130	29,34,34	1.24	3 (10%)	35,54,54	1.39	5 (14%)
129	GDP	Ij	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	T6	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.26	4 (11%)
129	GDP	2I	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.10	2 (6%)
129	GDP	KY	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
128	GTP	K6	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.27	4 (11%)
129	GDP	R6	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.09	1 (3%)
129	GDP	3S	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.06	2 (6%)
129	GDP	Aw	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.07	2 (6%)
129	GDP	Ed	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.10	3 (10%)
128	GTP	GH	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.27	4 (11%)
129	GDP	Y2	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.08	2 (6%)
129	GDP	K6	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	E8	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	1 (3%)
129	GDP	G4	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	Fg	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.30	4 (11%)
128	GTP	O0	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.25	4 (11%)
129	GDP	By	503	-	25,30,30	0.95	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	Dz	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.29	5 (14%)
129	GDP	E0	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	0C	501	130	29,34,34	1.26	3 (10%)	35,54,54	1.29	4 (11%)
128	GTP	N8	501	130	29,34,34	1.27	3 (10%)	35,54,54	1.26	4 (11%)
129	GDP	Iw	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.05	2 (6%)
129	GDP	El	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	Ci	501	130	29,34,34	1.26	2 (6%)	35,54,54	1.28	5 (14%)
128	GTP	Dw	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.26	4 (11%)
128	GTP	MV	501	130	29,34,34	1.25	3 (10%)	35,54,54	1.28	4 (11%)
129	GDP	X8	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	Ei	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.24	3 (8%)
129	GDP	C4	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.07	2 (6%)
129	GDP	GB	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.06	2 (6%)
128	GTP	Bf	502	130	29,34,34	1.26	2 (6%)	35,54,54	1.26	4 (11%)
129	GDP	Bj	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.07	2 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
129	GDP	BU	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	Cz	501	130	29,34,34	1.25	3 (10%)	35,54,54	1.29	4 (11%)
129	GDP	LJ	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.08	2 (6%)
129	GDP	2S	502	-	25,30,30	0.99	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	Y6	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.28	4 (11%)
128	GTP	F8	501	130	29,34,34	1.25	3 (10%)	35,54,54	1.25	4 (11%)
128	GTP	G3	502	130	29,34,34	1.29	4 (13%)	35,54,54	1.36	6 (17%)
129	GDP	2Y	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.08	2 (6%)
129	GDP	W0	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.09	2 (6%)
128	GTP	Fi	501	130	29,34,34	1.26	2 (6%)	35,54,54	1.31	3 (8%)
128	GTP	E8	501	130	29,34,34	1.37	3 (10%)	35,54,54	1.22	4 (11%)
128	GTP	N6	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.26	4 (11%)
128	GTP	P4	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.27	3 (8%)
129	GDP	Kj	503	-	25,30,30	0.98	1 (4%)	30,47,47	1.12	2 (6%)
129	GDP	3A	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	U4	501	130	29,34,34	1.26	3 (10%)	35,54,54	1.28	4 (11%)
129	GDP	1W	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.12	2 (6%)
129	GDP	E6	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.06	2 (6%)
129	GDP	S4	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.08	1 (3%)
128	GTP	L2	501	130	29,34,34	1.24	3 (10%)	35,54,54	1.27	4 (11%)
128	GTP	Dm	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.26	4 (11%)
128	GTP	G5	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.28	4 (11%)
128	GTP	Ay	502	130	29,34,34	1.21	2 (6%)	35,54,54	1.29	4 (11%)
129	GDP	Z6	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	H3	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.27	4 (11%)
128	GTP	Fv	501	130	29,34,34	1.27	3 (10%)	35,54,54	1.30	4 (11%)
128	GTP	V8	501	130	29,34,34	1.26	3 (10%)	35,54,54	1.28	4 (11%)
129	GDP	U2	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.11	3 (10%)
128	GTP	J6	501	130	29,34,34	1.25	3 (10%)	35,54,54	1.25	4 (11%)
128	GTP	Av	501	130	29,34,34	1.21	2 (6%)	35,54,54	1.26	4 (11%)
128	GTP	NU	501	130	29,34,34	1.26	3 (10%)	35,54,54	1.26	4 (11%)
129	GDP	NU	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.10	2 (6%)
129	GDP	0E	501	-	25,30,30	1.00	2 (8%)	30,47,47	1.09	2 (6%)
129	GDP	Ap	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.10	2 (6%)
128	GTP	FW	501	130	29,34,34	1.21	2 (6%)	35,54,54	1.30	4 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
129	GDP	8L	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	A4	501	130	29,34,34	1.21	2 (6%)	35,54,54	1.27	4 (11%)
128	GTP	E6	501	130	29,34,34	1.22	3 (10%)	35,54,54	1.29	4 (11%)
128	GTP	NF	501	-	29,34,34	1.26	2 (6%)	35,54,54	1.25	4 (11%)
128	GTP	CU	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.28	4 (11%)
128	GTP	Ew	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.27	4 (11%)
129	GDP	Ej	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.10	2 (6%)
129	GDP	GJ	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	F0	501	130	29,34,34	1.26	3 (10%)	35,54,54	1.26	4 (11%)
129	GDP	BY	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.07	3 (10%)
128	GTP	I0	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.25	4 (11%)
129	GDP	ES	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	1G	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.12	2 (6%)
129	GDP	Cm	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.11	3 (10%)
129	GDP	D4	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.15	3 (10%)
129	GDP	GD	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	F1	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.25	4 (11%)
128	GTP	NS	501	-	29,34,34	1.27	3 (10%)	35,54,54	1.25	4 (11%)
129	GDP	Fe	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.08	2 (6%)
129	GDP	EF	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.08	2 (6%)
129	GDP	BM	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.12	2 (6%)
129	GDP	Bn	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	Jw	501	130	29,34,34	1.25	3 (10%)	35,54,54	1.25	4 (11%)
129	GDP	JW	503	-	25,30,30	0.98	1 (4%)	30,47,47	1.09	2 (6%)
128	GTP	ED	501	130	29,34,34	1.21	2 (6%)	35,54,54	1.30	5 (14%)
128	GTP	JI	502	130	29,34,34	1.23	2 (6%)	35,54,54	1.24	4 (11%)
128	GTP	E4	501	130	29,34,34	1.26	3 (10%)	35,54,54	1.26	4 (11%)
129	GDP	I0	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	Ah	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.09	2 (6%)
128	GTP	C5	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.26	4 (11%)
128	GTP	1L	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.28	4 (11%)
128	GTP	D3	501	130	29,34,34	1.21	2 (6%)	35,54,54	1.28	3 (8%)
128	GTP	Iy	501	130	29,34,34	1.25	3 (10%)	35,54,54	1.24	4 (11%)
129	GDP	Kl	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.12	2 (6%)
129	GDP	FE	502	-	25,30,30	0.99	1 (4%)	30,47,47	1.10	2 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
128	GTP	1D	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.27	4 (11%)
129	GDP	3K	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
129	GDP	3M	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	K9	501	130	29,34,34	1.26	3 (10%)	35,54,54	1.28	4 (11%)
129	GDP	U6	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	2G	501	130	29,34,34	1.27	3 (10%)	35,54,54	1.25	4 (11%)
128	GTP	KY	501	130	29,34,34	1.24	3 (10%)	35,54,54	1.29	4 (11%)
128	GTP	U7	501	130	29,34,34	1.26	4 (13%)	35,54,54	1.29	4 (11%)
129	GDP	Fr	502	-	25,30,30	0.94	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	MH	501	130	29,34,34	1.24	3 (10%)	35,54,54	1.26	4 (11%)
128	GTP	S5	501	130	29,34,34	1.24	3 (10%)	35,54,54	1.25	4 (11%)
129	GDP	ED	502	-	25,30,30	0.93	1 (4%)	30,47,47	1.11	3 (10%)
129	GDP	B3	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	J0	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.27	4 (11%)
128	GTP	X0	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.29	4 (11%)
128	GTP	Bm	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.27	4 (11%)
128	GTP	V2	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.27	4 (11%)
129	GDP	2Q	502	-	25,30,30	0.99	1 (4%)	30,47,47	1.08	2 (6%)
129	GDP	KJ	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.07	2 (6%)
129	GDP	KU	502	-	25,30,30	0.99	1 (4%)	30,47,47	1.06	2 (6%)
129	GDP	CT	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.06	2 (6%)
128	GTP	Aj	501	130	29,34,34	1.26	3 (10%)	35,54,54	1.27	4 (11%)
129	GDP	FC	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.12	2 (6%)
129	GDP	Q0	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.07	1 (3%)
129	GDP	Dt	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.05	2 (6%)
128	GTP	Bh	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.25	4 (11%)
129	GDP	BS	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
128	GTP	Jy	501	130	29,34,34	1.26	4 (13%)	35,54,54	1.27	4 (11%)
128	GTP	Jh	501	130	29,34,34	1.26	3 (10%)	35,54,54	1.25	4 (11%)
129	GDP	0S	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.09	3 (10%)
129	GDP	2C	502	-	25,30,30	0.99	1 (4%)	30,47,47	1.10	2 (6%)
128	GTP	DM	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.25	4 (11%)
128	GTP	EV	501	130	29,34,34	1.21	2 (6%)	35,54,54	1.29	3 (8%)
128	GTP	M7	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.29	4 (11%)
129	GDP	NF	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.09	2 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
129	GDP	V2	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	G7	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.26	4 (11%)
128	GTP	K7	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.25	4 (11%)
129	GDP	Aj	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	JY	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.12	2 (6%)
128	GTP	2E	501	130	29,34,34	1.26	3 (10%)	35,54,54	1.26	4 (11%)
128	GTP	Fk	501	130	29,34,34	1.21	2 (6%)	35,54,54	1.30	5 (14%)
129	GDP	Z8	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	Mt	501	130	29,34,34	1.24	3 (10%)	35,54,54	1.31	4 (11%)
128	GTP	2C	501	130	29,34,34	1.31	5 (17%)	35,54,54	1.39	5 (14%)
129	GDP	DM	502	-	25,30,30	0.93	1 (4%)	30,47,47	1.11	2 (6%)
129	GDP	Q4	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.14	2 (6%)
128	GTP	2I	501	130	29,34,34	1.26	4 (13%)	35,54,54	1.27	4 (11%)
128	GTP	2L	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.27	4 (11%)
129	GDP	CI	503	-	25,30,30	0.95	1 (4%)	30,47,47	1.10	2 (6%)
129	GDP	KL	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.13	2 (6%)
128	GTP	EQ	501	130	29,34,34	1.25	3 (10%)	35,54,54	1.31	4 (11%)
128	GTP	CX	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.25	4 (11%)
128	GTP	P6	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.26	4 (11%)
128	GTP	MT	501	130	29,34,34	1.29	4 (13%)	35,54,54	1.31	4 (11%)
128	GTP	NJ	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.27	4 (11%)
128	GTP	DK	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.27	4 (11%)
129	GDP	N2	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	D5	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.25	3 (8%)
128	GTP	Iw	501	130	29,34,34	1.26	3 (10%)	35,54,54	1.28	4 (11%)
129	GDP	N8	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
129	GDP	B6	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.12	3 (10%)
128	GTP	AT	501	130	29,34,34	1.24	3 (10%)	35,54,54	1.26	4 (11%)
129	GDP	Lu	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.10	3 (10%)
129	GDP	2A	502	-	25,30,30	0.99	1 (4%)	30,47,47	1.12	2 (6%)
129	GDP	KW	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.08	2 (6%)
129	GDP	0Q	503	-	25,30,30	0.99	1 (4%)	30,47,47	1.12	2 (6%)
128	GTP	ER	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.39	5 (14%)
129	GDP	Mg	502	-	25,30,30	0.99	1 (4%)	30,47,47	1.11	2 (6%)
128	GTP	GD	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.26	4 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
129	GDP	Bl	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.11	2 (6%)
129	GDP	FR	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.11	2 (6%)
128	GTP	Bu	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.28	5 (14%)
128	GTP	N0	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.29	4 (11%)
129	GDP	Ci	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.07	2 (6%)
129	GDP	0U	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.10	2 (6%)
128	GTP	Cx	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.26	3 (8%)
129	GDP	EQ	502	-	25,30,30	0.93	1 (4%)	30,47,47	1.12	2 (6%)
128	GTP	R4	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.25	4 (11%)
128	GTP	CS	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.25	4 (11%)
129	GDP	Q6	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.11	2 (6%)
128	GTP	EI	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.31	4 (11%)
129	GDP	1S	502	-	25,30,30	1.00	1 (4%)	30,47,47	1.13	2 (6%)
129	GDP	LV	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	LJ	501	130	29,34,34	1.25	3 (10%)	35,54,54	1.29	4 (11%)
128	GTP	KH	501	-	29,34,34	1.26	3 (10%)	35,54,54	1.24	4 (11%)
129	GDP	J2	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	2S	501	130	29,34,34	1.25	3 (10%)	35,54,54	1.25	4 (11%)
128	GTP	Bi	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.30	4 (11%)
129	GDP	3G	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	DZ	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.26	4 (11%)
128	GTP	Z6	501	130	29,34,34	1.28	3 (10%)	35,54,54	1.26	4 (11%)
129	GDP	F2	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.07	2 (6%)
129	GDP	B8	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	Ee	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.29	4 (11%)
128	GTP	FV	501	130	29,34,34	1.27	3 (10%)	35,54,54	1.29	4 (11%)
128	GTP	BU	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.23	3 (8%)
128	GTP	Kl	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.27	4 (11%)
129	GDP	2U	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	CE	502	130	29,34,34	1.21	2 (6%)	35,54,54	1.27	3 (8%)
129	GDP	Cx	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	MG	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	Li	501	130	29,34,34	1.26	3 (10%)	35,54,54	1.30	4 (11%)
129	GDP	Lh	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	Eq	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.29	5 (14%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
128	GTP	D7	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.26	4 (11%)
129	GDP	S0	502	-	25,30,30	0.93	1 (4%)	30,47,47	1.08	2 (6%)
129	GDP	An	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	Ba	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	El	501	130	29,34,34	1.26	3 (10%)	35,54,54	1.29	5 (14%)
129	GDP	DZ	502	-	25,30,30	0.92	1 (4%)	30,47,47	1.12	2 (6%)
128	GTP	B0	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.28	4 (11%)
129	GDP	O2	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.07	2 (6%)
129	GDP	GF	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.05	2 (6%)
128	GTP	CK	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.28	4 (11%)
128	GTP	8M	501	130	29,34,34	1.24	3 (10%)	35,54,54	1.26	4 (11%)
129	GDP	JU	503	-	25,30,30	0.99	1 (4%)	30,47,47	1.10	2 (6%)
128	GTP	Z3	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.39	6 (17%)
128	GTP	Dr	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.30	4 (11%)
128	GTP	K4	501	130	29,34,34	1.25	3 (10%)	35,54,54	1.26	4 (11%)
129	GDP	T0	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	B5	501	130	29,34,34	1.24	3 (10%)	35,54,54	1.29	5 (14%)
129	GDP	0K	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.10	2 (6%)
128	GTP	W5	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.29	4 (11%)
129	GDP	V6	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.08	1 (3%)
129	GDP	P6	503	-	25,30,30	0.97	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	Fp	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.27	4 (11%)
128	GTP	CG	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.30	4 (11%)
128	GTP	E0	502	130	29,34,34	1.25	2 (6%)	35,54,54	1.24	4 (11%)
129	GDP	K0	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	DH	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.27	4 (11%)
128	GTP	1C	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.29	4 (11%)
129	GDP	T6	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	By	502	130	29,34,34	1.23	2 (6%)	35,54,54	1.25	4 (11%)
128	GTP	Nh	501	130	29,34,34	1.26	3 (10%)	35,54,54	1.26	4 (11%)
128	GTP	3M	501	130	29,34,34	1.25	3 (10%)	35,54,54	1.28	3 (8%)
128	GTP	IL	501	130	29,34,34	1.26	4 (13%)	35,54,54	1.39	7 (20%)
128	GTP	Y1	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.28	4 (11%)
129	GDP	Kh	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.10	2 (6%)
128	GTP	2K	501	130	29,34,34	1.23	2 (6%)	35,54,54	1.27	3 (8%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
129	GDP	DT	502	-	25,30,30	0.94	1 (4%)	30,47,47	1.10	2 (6%)
129	GDP	I4	503	-	25,30,30	0.95	1 (4%)	30,47,47	1.17	2 (6%)
129	GDP	H6	502	-	25,30,30	1.00	1 (4%)	30,47,47	1.13	2 (6%)
128	GTP	Di	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.25	4 (11%)
128	GTP	Bb	501	130	29,34,34	1.21	2 (6%)	35,54,54	1.26	3 (8%)
129	GDP	Q8	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	1C	502	-	25,30,30	0.99	1 (4%)	30,47,47	1.15	2 (6%)
128	GTP	0I	502	130	29,34,34	1.23	2 (6%)	35,54,54	1.25	4 (11%)
129	GDP	GH	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.07	2 (6%)
129	GDP	1M	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.10	2 (6%)
128	GTP	EF	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.29	4 (11%)
128	GTP	Kx	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.26	4 (11%)
129	GDP	0C	502	-	25,30,30	0.99	1 (4%)	30,47,47	1.09	2 (6%)
128	GTP	Ce	502	130	29,34,34	1.25	2 (6%)	35,54,54	1.31	4 (11%)
129	GDP	X2	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
129	GDP	M8	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	H6	501	130	29,34,34	1.25	3 (10%)	35,54,54	1.27	4 (11%)
129	GDP	Dk	502	-	25,30,30	0.94	1 (4%)	30,47,47	1.09	2 (6%)
128	GTP	0Q	502	130	29,34,34	1.27	2 (6%)	35,54,54	1.27	4 (11%)
129	GDP	Eu	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.04	2 (6%)
128	GTP	IX	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.26	4 (11%)
129	GDP	NW	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.08	2 (6%)
128	GTP	NH	501	130	29,34,34	2.89	4 (13%)	35,54,54	2.25	10 (28%)
128	GTP	CZ	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.27	4 (11%)
128	GTP	S9	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.27	4 (11%)
128	GTP	C4	502	130	29,34,34	1.23	2 (6%)	35,54,54	1.25	4 (11%)
128	GTP	KI	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.31	4 (11%)
129	GDP	Bf	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.07	2 (6%)
129	GDP	K8	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	D6	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.15	3 (10%)
128	GTP	EL	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.28	4 (11%)
128	GTP	Ii	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.28	4 (11%)
129	GDP	Au	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.07	2 (6%)
129	GDP	MI	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.09	2 (6%)
129	GDP	CG	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.06	2 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
129	GDP	IY	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.07	2 (6%)
129	GDP	G6	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.09	2 (6%)
128	GTP	FE	501	130	29,34,34	1.22	2 (6%)	35,54,54	1.27	3 (8%)
128	GTP	LX	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.25	4 (11%)
129	GDP	Eh	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.07	2 (6%)
128	GTP	Az	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.27	4 (11%)
128	GTP	Ik	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.26	4 (11%)
128	GTP	MG	501	130	29,34,34	1.20	2 (6%)	35,54,54	1.33	5 (14%)
128	GTP	JK	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.26	4 (11%)
128	GTP	Dt	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.27	4 (11%)
128	GTP	R0	501	130	29,34,34	1.23	3 (10%)	35,54,54	1.30	4 (11%)
128	GTP	JU	501	130	29,34,34	1.25	3 (10%)	35,54,54	1.25	4 (11%)
128	GTP	S0	501	130	29,34,34	1.24	2 (6%)	35,54,54	1.27	4 (11%)
128	GTP	DE	501	130	29,34,34	1.25	2 (6%)	35,54,54	1.27	4 (11%)
128	GTP	T8	501	130	29,34,34	1.26	3 (10%)	35,54,54	1.27	4 (11%)

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
128	GTP	M4	501	130	-	10/18/38/38	0/3/3/3
129	GDP	S6	501	-	-	2/12/32/32	0/3/3/3
129	GDP	D8	501	-	-	4/12/32/32	0/3/3/3
129	GDP	M0	502	-	-	1/12/32/32	0/3/3/3
128	GTP	LH	501	-	-	8/18/38/38	0/3/3/3
129	GDP	Cv	503	-	-	1/12/32/32	0/3/3/3
129	GDP	Ay	503	-	-	3/12/32/32	0/3/3/3
128	GTP	R6	501	130	-	6/18/38/38	0/3/3/3
128	GTP	M2	501	130	-	9/18/38/38	0/3/3/3
128	GTP	3K	501	130	-	8/18/38/38	0/3/3/3
129	GDP	MV	502	-	-	1/12/32/32	0/3/3/3
128	GTP	X4	501	130	-	5/18/38/38	0/3/3/3
129	GDP	Fg	502	-	-	1/12/32/32	0/3/3/3
129	GDP	1A	502	-	-	5/12/32/32	0/3/3/3
129	GDP	G8	501	-	-	4/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
129	GDP	A1	501	-	-	5/12/32/32	0/3/3/3
129	GDP	X0	502	-	-	2/12/32/32	0/3/3/3
129	GDP	EL	502	-	-	4/12/32/32	0/3/3/3
129	GDP	M4	502	-	-	2/12/32/32	0/3/3/3
128	GTP	D1	501	130	-	1/18/38/38	0/3/3/3
128	GTP	FT	502	130	-	8/18/38/38	0/3/3/3
128	GTP	0A	501	130	-	7/18/38/38	0/3/3/3
128	GTP	E1	501	130	-	4/18/38/38	0/3/3/3
129	GDP	C2	501	-	-	2/12/32/32	0/3/3/3
128	GTP	T4	501	130	-	10/18/38/38	0/3/3/3
128	GTP	DT	501	130	-	9/18/38/38	0/3/3/3
129	GDP	Dv	501	-	-	5/12/32/32	0/3/3/3
129	GDP	C0	502	-	-	1/12/32/32	0/3/3/3
128	GTP	R2	502	130	-	9/18/38/38	0/3/3/3
128	GTP	B2	501	130	-	8/18/38/38	0/3/3/3
129	GDP	LH	502	-	-	1/12/32/32	0/3/3/3
129	GDP	NS	502	-	-	4/12/32/32	0/3/3/3
129	GDP	V8	502	-	-	4/12/32/32	0/3/3/3
128	GTP	DG	501	130	-	5/18/38/38	0/3/3/3
129	GDP	Bw	503	-	-	6/12/32/32	0/3/3/3
129	GDP	Jw	502	-	-	2/12/32/32	0/3/3/3
129	GDP	1E	501	-	-	5/12/32/32	0/3/3/3
129	GDP	EJ	501	-	-	3/12/32/32	0/3/3/3
128	GTP	Mg	501	130	-	7/18/38/38	0/3/3/3
129	GDP	T8	502	-	-	1/12/32/32	0/3/3/3
128	GTP	C8	501	130	-	3/18/38/38	0/3/3/3
129	GDP	B1	501	-	-	2/12/32/32	0/3/3/3
128	GTP	Z2	501	130	-	7/18/38/38	0/3/3/3
129	GDP	Ew	502	-	-	2/12/32/32	0/3/3/3
128	GTP	O8	501	130	-	6/18/38/38	0/3/3/3
129	GDP	S2	502	-	-	1/12/32/32	0/3/3/3
129	GDP	3I	502	-	-	4/12/32/32	0/3/3/3
128	GTP	U6	501	130	-	7/18/38/38	0/3/3/3
129	GDP	Mi	501	-	-	4/12/32/32	0/3/3/3
129	GDP	0W	501	-	-	5/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
128	GTP	Ao	501	130	-	4/18/38/38	0/3/3/3
128	GTP	U9	501	130	-	9/18/38/38	0/3/3/3
129	GDP	X6	502	-	-	0/12/32/32	0/3/3/3
128	GTP	Ba	501	130	-	3/18/38/38	0/3/3/3
129	GDP	C8	502	-	-	1/12/32/32	0/3/3/3
128	GTP	GI	501	130	-	9/18/38/38	0/3/3/3
128	GTP	0M	501	130	-	9/18/38/38	0/3/3/3
129	GDP	2M	501	-	-	4/12/32/32	0/3/3/3
129	GDP	Z2	502	-	-	1/12/32/32	0/3/3/3
128	GTP	R8	502	130	-	9/18/38/38	0/3/3/3
128	GTP	Eh	501	130	-	8/18/38/38	0/3/3/3
129	GDP	0O	502	-	-	1/12/32/32	0/3/3/3
129	GDP	Lw	501	-	-	1/12/32/32	0/3/3/3
129	GDP	IM	501	-	-	1/12/32/32	0/3/3/3
129	GDP	BK	501	-	-	2/12/32/32	0/3/3/3
128	GTP	Es	501	130	-	9/18/38/38	0/3/3/3
129	GDP	B5	502	-	-	2/12/32/32	0/3/3/3
129	GDP	T2	502	-	-	1/12/32/32	0/3/3/3
128	GTP	EU	501	130	-	6/18/38/38	0/3/3/3
128	GTP	0Y	501	130	-	7/18/38/38	0/3/3/3
128	GTP	DV	501	130	-	6/18/38/38	0/3/3/3
128	GTP	L6	501	130	-	7/18/38/38	0/3/3/3
129	GDP	Mv	501	-	-	5/12/32/32	0/3/3/3
128	GTP	Bl	501	130	-	6/18/38/38	0/3/3/3
128	GTP	LU	501	130	-	9/18/38/38	0/3/3/3
128	GTP	J8	502	130	-	9/18/38/38	0/3/3/3
129	GDP	J0	502	-	-	3/12/32/32	0/3/3/3
129	GDP	0M	502	-	-	4/12/32/32	0/3/3/3
129	GDP	K4	502	-	-	4/12/32/32	0/3/3/3
128	GTP	Cv	502	130	-	6/18/38/38	0/3/3/3
129	GDP	Fk	502	-	-	3/12/32/32	0/3/3/3
129	GDP	Di	502	-	-	1/12/32/32	0/3/3/3
129	GDP	Dz	502	-	-	2/12/32/32	0/3/3/3
129	GDP	CE	501	-	-	1/12/32/32	0/3/3/3
129	GDP	Mt	502	-	-	6/12/32/32	0/3/3/3
128	GTP	Df	501	130	-	9/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
129	GDP	W2	502	-	-	2/12/32/32	0/3/3/3
128	GTP	C0	501	130	-	8/18/38/38	0/3/3/3
129	GDP	2E	502	-	-	3/12/32/32	0/3/3/3
128	GTP	G0	501	130	-	6/18/38/38	0/3/3/3
129	GDP	R2	503	-	-	1/12/32/32	0/3/3/3
129	GDP	A6	501	-	-	2/12/32/32	0/3/3/3
129	GDP	2G	502	-	-	1/12/32/32	0/3/3/3
128	GTP	3C	501	130	-	8/18/38/38	0/3/3/3
129	GDP	CM	503	-	-	5/12/32/32	0/3/3/3
128	GTP	A9	501	130	-	4/18/38/38	0/3/3/3
128	GTP	IW	501	130	-	11/18/38/38	0/3/3/3
128	GTP	CI	501	130	-	9/18/38/38	0/3/3/3
128	GTP	B7	501	130	-	4/18/38/38	0/3/3/3
129	GDP	A5	501	-	-	2/12/32/32	0/3/3/3
129	GDP	E4	502	-	-	4/12/32/32	0/3/3/3
129	GDP	Y6	502	-	-	0/12/32/32	0/3/3/3
128	GTP	W8	501	130	-	7/18/38/38	0/3/3/3
128	GTP	V3	501	130	-	8/18/38/38	0/3/3/3
128	GTP	GF	501	130	-	9/18/38/38	0/3/3/3
129	GDP	N0	502	-	-	5/12/32/32	0/3/3/3
129	GDP	DI	501	-	-	1/12/32/32	0/3/3/3
129	GDP	LX	502	-	-	1/12/32/32	0/3/3/3
129	GDP	Dg	501	-	-	5/12/32/32	0/3/3/3
128	GTP	BJ	501	130	-	4/18/38/38	0/3/3/3
129	GDP	1K	501	-	-	5/12/32/32	0/3/3/3
129	GDP	J6	502	-	-	2/12/32/32	0/3/3/3
129	GDP	Jy	502	-	-	4/12/32/32	0/3/3/3
128	GTP	FJ	501	130	-	5/18/38/38	0/3/3/3
128	GTP	De	501	130	-	7/18/38/38	0/3/3/3
129	GDP	1O	501	-	-	1/12/32/32	0/3/3/3
129	GDP	DK	502	-	-	5/12/32/32	0/3/3/3
128	GTP	BY	501	130	-	7/18/38/38	0/3/3/3
128	GTP	S2	501	130	-	8/18/38/38	0/3/3/3
129	GDP	S8	502	-	-	1/12/32/32	0/3/3/3
129	GDP	Ft	502	-	-	4/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
128	GTP	Bo	501	130	-	6/18/38/38	0/3/3/3
129	GDP	NH	502	-	-	3/12/32/32	0/3/3/3
129	GDP	H4	501	-	-	6/12/32/32	0/3/3/3
128	GTP	M6	501	130	-	6/18/38/38	0/3/3/3
129	GDP	FV	502	-	-	5/12/32/32	0/3/3/3
128	GTP	IK	501	130	-	7/18/38/38	0/3/3/3
128	GTP	3S	501	130	-	7/18/38/38	0/3/3/3
129	GDP	R8	503	-	-	6/12/32/32	0/3/3/3
128	GTP	3A	501	130	-	7/18/38/38	0/3/3/3
128	GTP	3I	501	130	-	6/18/38/38	0/3/3/3
129	GDP	L4	502	-	-	3/12/32/32	0/3/3/3
128	GTP	1W	501	130	-	5/18/38/38	0/3/3/3
129	GDP	De	502	-	-	1/12/32/32	0/3/3/3
129	GDP	Eq	502	-	-	1/12/32/32	0/3/3/3
129	GDP	V0	501	-	-	2/12/32/32	0/3/3/3
128	GTP	BB	501	130	-	7/18/38/38	0/3/3/3
128	GTP	Lv	501	130	-	7/18/38/38	0/3/3/3
128	GTP	CR	502	130	-	6/18/38/38	0/3/3/3
128	GTP	Kv	501	130	-	7/18/38/38	0/3/3/3
129	GDP	CV	501	-	-	4/12/32/32	0/3/3/3
129	GDP	Ce	501	-	-	2/12/32/32	0/3/3/3
129	GDP	L2	502	-	-	3/12/32/32	0/3/3/3
128	GTP	8H	501	130	-	9/18/38/38	0/3/3/3
129	GDP	M6	502	-	-	3/12/32/32	0/3/3/3
128	GTP	1G	501	130	-	6/18/38/38	0/3/3/3
129	GDP	8N	501	-	-	5/12/32/32	0/3/3/3
129	GDP	BO	501	-	-	4/12/32/32	0/3/3/3
129	GDP	IK	502	-	-	3/12/32/32	0/3/3/3
129	GDP	O6	502	-	-	1/12/32/32	0/3/3/3
128	GTP	U2	501	130	-	7/18/38/38	0/3/3/3
128	GTP	8I	501	130	-	9/18/38/38	0/3/3/3
128	GTP	Y0	501	130	-	9/18/38/38	0/3/3/3
129	GDP	G0	502	-	-	5/12/32/32	0/3/3/3
129	GDP	3O	502	-	-	1/12/32/32	0/3/3/3
128	GTP	T2	501	130	-	8/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
128	GTP	G1	501	130	-	7/18/38/38	0/3/3/3
128	GTP	DR	501	130	-	10/18/38/38	0/3/3/3
128	GTP	Bz	501	130	-	9/18/38/38	0/3/3/3
129	GDP	Nf	502	-	-	1/12/32/32	0/3/3/3
129	GDP	A3	501	-	-	5/12/32/32	0/3/3/3
129	GDP	BB	502	-	-	1/12/32/32	0/3/3/3
129	GDP	Iy	502	-	-	0/12/32/32	0/3/3/3
129	GDP	R4	502	-	-	3/12/32/32	0/3/3/3
128	GTP	EY	501	130	-	6/18/38/38	0/3/3/3
128	GTP	NW	501	130	-	8/18/38/38	0/3/3/3
128	GTP	1X	501	130	-	9/18/38/38	0/3/3/3
129	GDP	J4	502	-	-	1/12/32/32	0/3/3/3
129	GDP	Nh	502	-	-	1/12/32/32	0/3/3/3
129	GDP	DV	502	-	-	4/12/32/32	0/3/3/3
129	GDP	8J	501	-	-	2/12/32/32	0/3/3/3
128	GTP	N1	501	130	-	8/18/38/38	0/3/3/3
129	GDP	T4	502	-	-	5/12/32/32	0/3/3/3
129	GDP	Jj	502	-	-	3/12/32/32	0/3/3/3
128	GTP	Dk	501	130	-	8/18/38/38	0/3/3/3
128	GTP	Ni	501	130	-	4/18/38/38	0/3/3/3
129	GDP	JJ	501	-	-	3/12/32/32	0/3/3/3
128	GTP	L4	501	130	-	7/18/38/38	0/3/3/3
129	GDP	Cr	501	-	-	1/12/32/32	0/3/3/3
129	GDP	I8	502	-	-	1/12/32/32	0/3/3/3
129	GDP	D0	501	-	-	3/12/32/32	0/3/3/3
129	GDP	P8	502	-	-	5/12/32/32	0/3/3/3
129	GDP	DR	502	-	-	1/12/32/32	0/3/3/3
129	GDP	Z0	502	-	-	0/12/32/32	0/3/3/3
129	GDP	EY	502	-	-	2/12/32/32	0/3/3/3
128	GTP	GB	501	130	-	9/18/38/38	0/3/3/3
129	GDP	Ck	501	-	-	2/12/32/32	0/3/3/3
128	GTP	CM	502	130	-	9/18/38/38	0/3/3/3
128	GTP	W0	501	130	-	7/18/38/38	0/3/3/3
129	GDP	O0	502	-	-	5/12/32/32	0/3/3/3
129	GDP	Lj	501	-	-	6/12/32/32	0/3/3/3
129	GDP	NJ	502	-	-	2/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
129	GDP	U4	502	-	-	3/12/32/32	0/3/3/3
129	GDP	Il	501	-	-	2/12/32/32	0/3/3/3
129	GDP	FP	501	-	-	3/12/32/32	0/3/3/3
129	GDP	Cz	502	-	-	3/12/32/32	0/3/3/3
128	GTP	FI	501	130	-	6/18/38/38	0/3/3/3
128	GTP	Mh	501	130	-	5/18/38/38	0/3/3/3
129	GDP	H2	502	-	-	0/12/32/32	0/3/3/3
129	GDP	O8	502	-	-	1/12/32/32	0/3/3/3
128	GTP	F1	501	130	-	6/18/38/38	0/3/3/3
129	GDP	Nj	501	-	-	1/12/32/32	0/3/3/3
129	GDP	Z4	501	-	-	1/12/32/32	0/3/3/3
129	GDP	O4	503	-	-	0/12/32/32	0/3/3/3
129	GDP	Fp	502	-	-	4/12/32/32	0/3/3/3
129	GDP	EU	502	-	-	3/12/32/32	0/3/3/3
128	GTP	8L	501	130	-	7/18/38/38	0/3/3/3
129	GDP	Fx	502	-	-	2/12/32/32	0/3/3/3
129	GDP	Kx	502	-	-	6/12/32/32	0/3/3/3
129	GDP	1U	501	-	-	5/12/32/32	0/3/3/3
129	GDP	P4	503	-	-	1/12/32/32	0/3/3/3
128	GTP	2W	501	130	-	8/18/38/38	0/3/3/3
129	GDP	2K	502	-	-	3/12/32/32	0/3/3/3
129	GDP	Kv	503	-	-	4/12/32/32	0/3/3/3
128	GTP	W4	501	130	-	7/18/38/38	0/3/3/3
129	GDP	Fc	502	-	-	3/12/32/32	0/3/3/3
129	GDP	N6	502	-	-	1/12/32/32	0/3/3/3
129	GDP	C6	501	-	-	2/12/32/32	0/3/3/3
128	GTP	0K	501	130	-	3/18/38/38	0/3/3/3
128	GTP	BW	501	130	-	7/18/38/38	0/3/3/3
128	GTP	C1	501	130	-	7/18/38/38	0/3/3/3
128	GTP	C9	501	130	-	3/18/38/38	0/3/3/3
129	GDP	Dm	502	-	-	1/12/32/32	0/3/3/3
129	GDP	F6	501	-	-	3/12/32/32	0/3/3/3
128	GTP	I4	502	130	-	9/18/38/38	0/3/3/3
128	GTP	Du	501	130	-	9/18/38/38	0/3/3/3
129	GDP	0I	503	-	-	5/12/32/32	0/3/3/3
129	GDP	3Q	501	-	-	1/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
128	GTP	Ct	501	130	-	6/18/38/38	0/3/3/3
128	GTP	1Q	501	130	-	9/18/38/38	0/3/3/3
129	GDP	M2	502	-	-	3/12/32/32	0/3/3/3
128	GTP	Z7	501	130	-	3/18/38/38	0/3/3/3
129	GDP	CR	501	-	-	3/12/32/32	0/3/3/3
129	GDP	BW	502	-	-	1/12/32/32	0/3/3/3
129	GDP	Ju	501	-	-	3/12/32/32	0/3/3/3
129	GDP	X4	502	-	-	0/12/32/32	0/3/3/3
129	GDP	R0	502	-	-	1/12/32/32	0/3/3/3
128	GTP	W2	501	130	-	9/18/38/38	0/3/3/3
128	GTP	1N	501	130	-	8/18/38/38	0/3/3/3
128	GTP	1A	501	130	-	6/18/38/38	0/3/3/3
128	GTP	Jl	502	130	-	6/18/38/38	0/3/3/3
128	GTP	Ak	501	130	-	7/18/38/38	0/3/3/3
129	GDP	A1	502	-	-	3/12/32/32	0/3/3/3
128	GTP	JW	502	130	-	8/18/38/38	0/3/3/3
129	GDP	Ef	501	-	-	1/12/32/32	0/3/3/3
129	GDP	Bu	502	-	-	1/12/32/32	0/3/3/3
129	GDP	CX	502	-	-	4/12/32/32	0/3/3/3
128	GTP	3G	501	130	-	8/18/38/38	0/3/3/3
128	GTP	An	501	130	-	9/18/38/38	0/3/3/3
128	GTP	Q4	501	130	-	6/18/38/38	0/3/3/3
129	GDP	Ct	502	-	-	2/12/32/32	0/3/3/3
128	GTP	2A	501	130	-	9/18/38/38	0/3/3/3
128	GTP	BH	501	130	-	5/18/38/38	0/3/3/3
129	GDP	CZ	502	-	-	4/12/32/32	0/3/3/3
129	GDP	W8	502	-	-	4/12/32/32	0/3/3/3
128	GTP	Ed	501	130	-	3/18/38/38	0/3/3/3
128	GTP	BG	501	130	-	4/18/38/38	0/3/3/3
128	GTP	Fr	501	130	-	8/18/38/38	0/3/3/3
129	GDP	1Q	502	-	-	5/12/32/32	0/3/3/3
129	GDP	FI	502	-	-	6/12/32/32	0/3/3/3
129	GDP	FX	501	-	-	7/12/32/32	0/3/3/3
129	GDP	W4	502	-	-	2/12/32/32	0/3/3/3
129	GDP	0G	501	-	-	4/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
129	GDP	A9	502	-	-	4/12/32/32	0/3/3/3
128	GTP	Q6	501	130	-	8/18/38/38	0/3/3/3
128	GTP	Ag	501	130	-	10/18/38/38	0/3/3/3
129	GDP	DG	502	-	-	6/12/32/32	0/3/3/3
129	GDP	F0	502	-	-	1/12/32/32	0/3/3/3
128	GTP	H8	501	130	-	8/18/38/38	0/3/3/3
129	GDP	DE	502	-	-	1/12/32/32	0/3/3/3
128	GTP	F3	501	130	-	4/18/38/38	0/3/3/3
128	GTP	X6	501	130	-	8/18/38/38	0/3/3/3
129	GDP	0A	502	-	-	1/12/32/32	0/3/3/3
129	GDP	F8	502	-	-	2/12/32/32	0/3/3/3
128	GTP	0V	501	130	-	7/18/38/38	0/3/3/3
128	GTP	O4	502	130	-	8/18/38/38	0/3/3/3
128	GTP	2Y	501	130	-	7/18/38/38	0/3/3/3
128	GTP	FG	501	130	-	10/18/38/38	0/3/3/3
128	GTP	A2	501	130	-	4/18/38/38	0/3/3/3
128	GTP	JX	501	130	-	9/18/38/38	0/3/3/3
128	GTP	0F	501	130	-	8/18/38/38	0/3/3/3
129	GDP	Y8	501	-	-	0/12/32/32	0/3/3/3
129	GDP	W6	501	-	-	2/12/32/32	0/3/3/3
129	GDP	Y0	502	-	-	1/12/32/32	0/3/3/3
129	GDP	D2	501	-	-	2/12/32/32	0/3/3/3
128	GTP	BL	501	130	-	3/18/38/38	0/3/3/3
128	GTP	Z0	501	130	-	3/18/38/38	0/3/3/3
129	GDP	CK	502	-	-	6/12/32/32	0/3/3/3
128	GTP	Cr	502	130	-	5/18/38/38	0/3/3/3
129	GDP	8H	502	-	-	2/12/32/32	0/3/3/3
129	GDP	E2	501	-	-	2/12/32/32	0/3/3/3
129	GDP	Y4	502	-	-	1/12/32/32	0/3/3/3
128	GTP	Eu	501	130	-	8/18/38/38	0/3/3/3
129	GDP	FT	503	-	-	5/12/32/32	0/3/3/3
129	GDP	0Y	502	-	-	5/12/32/32	0/3/3/3
129	GDP	G2	501	-	-	4/12/32/32	0/3/3/3
129	GDP	2W	502	-	-	4/12/32/32	0/3/3/3
128	GTP	F5	501	130	-	7/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
129	GDP	A7	501	-	-	3/12/32/32	0/3/3/3
128	GTP	FQ	501	130	-	7/18/38/38	0/3/3/3
129	GDP	BI	501	-	-	4/12/32/32	0/3/3/3
129	GDP	Dx	501	-	-	2/12/32/32	0/3/3/3
128	GTP	KL	501	130	-	6/18/38/38	0/3/3/3
128	GTP	M0	501	130	-	4/18/38/38	0/3/3/3
129	GDP	Dr	502	-	-	2/12/32/32	0/3/3/3
128	GTP	At	501	130	-	8/18/38/38	0/3/3/3
128	GTP	Cg	501	130	-	7/18/38/38	0/3/3/3
129	GDP	J8	503	-	-	3/12/32/32	0/3/3/3
128	GTP	J2	501	130	-	8/18/38/38	0/3/3/3
129	GDP	Bh	502	-	-	5/12/32/32	0/3/3/3
128	GTP	Lu	501	-	-	8/18/38/38	0/3/3/3
128	GTP	3O	501	130	-	7/18/38/38	0/3/3/3
129	GDP	Es	502	-	-	1/12/32/32	0/3/3/3
128	GTP	Q2	501	130	-	8/18/38/38	0/3/3/3
129	GDP	I2	501	-	-	2/12/32/32	0/3/3/3
128	GTP	KU	501	-	-	6/18/38/38	0/3/3/3
128	GTP	KW	501	130	-	8/18/38/38	0/3/3/3
129	GDP	Q2	502	-	-	5/12/32/32	0/3/3/3
129	GDP	L6	502	-	-	3/12/32/32	0/3/3/3
128	GTP	Cm	501	130	-	8/18/38/38	0/3/3/3
128	GTP	Fx	501	130	-	9/18/38/38	0/3/3/3
129	GDP	H8	503	-	-	5/12/32/32	0/3/3/3
128	GTP	P8	501	130	-	8/18/38/38	0/3/3/3
129	GDP	BG	502	-	-	1/12/32/32	0/3/3/3
129	GDP	V4	501	-	-	3/12/32/32	0/3/3/3
129	GDP	LT	501	-	-	4/12/32/32	0/3/3/3
129	GDP	3C	502	-	-	3/12/32/32	0/3/3/3
128	GTP	Jj	501	130	-	7/18/38/38	0/3/3/3
129	GDP	Bs	501	-	-	5/12/32/32	0/3/3/3
128	GTP	0R	502	130	-	8/18/38/38	0/3/3/3
128	GTP	3P	501	130	-	9/18/38/38	0/3/3/3
128	GTP	Fe	501	130	-	7/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
128	GTP	Fc	501	130	-	7/18/38/38	0/3/3/3
129	GDP	EH	502	-	-	1/12/32/32	0/3/3/3
128	GTP	1S	501	130	-	9/18/38/38	0/3/3/3
129	GDP	MT	502	-	-	2/12/32/32	0/3/3/3
128	GTP	Ft	501	130	-	9/18/38/38	0/3/3/3
128	GTP	Bw	501	130	-	9/18/38/38	0/3/3/3
129	GDP	FK	501	-	-	5/12/32/32	0/3/3/3
128	GTP	Cj	501	130	-	9/18/38/38	0/3/3/3
128	GTP	O2	501	130	-	8/18/38/38	0/3/3/3
128	GTP	I5	501	130	-	9/18/38/38	0/3/3/3
129	GDP	Jh	503	-	-	1/12/32/32	0/3/3/3
129	GDP	FG	502	-	-	5/12/32/32	0/3/3/3
129	GDP	Fi	502	-	-	3/12/32/32	0/3/3/3
129	GDP	DX	502	-	-	6/12/32/32	0/3/3/3
128	GTP	2U	501	130	-	9/18/38/38	0/3/3/3
129	GDP	IW	502	-	-	3/12/32/32	0/3/3/3
128	GTP	Mu	501	130	-	7/18/38/38	0/3/3/3
128	GTP	1H	501	130	-	7/18/38/38	0/3/3/3
129	GDP	JL	501	-	-	4/12/32/32	0/3/3/3
128	GTP	O6	501	130	-	5/18/38/38	0/3/3/3
128	GTP	Lh	501	-	-	6/18/38/38	0/3/3/3
128	GTP	1T	501	130	-	9/18/38/38	0/3/3/3
128	GTP	K0	501	130	-	7/18/38/38	0/3/3/3
128	GTP	P9	501	130	-	9/18/38/38	0/3/3/3
128	GTP	EH	501	130	-	10/18/38/38	0/3/3/3
128	GTP	X7	501	130	-	7/18/38/38	0/3/3/3
129	GDP	L0	501	-	-	2/12/32/32	0/3/3/3
128	GTP	BN	501	130	-	5/18/38/38	0/3/3/3
128	GTP	2Q	501	130	-	7/18/38/38	0/3/3/3
129	GDP	AJ	501	-	-	3/12/32/32	0/3/3/3
129	GDP	Fv	502	-	-	2/12/32/32	0/3/3/3
128	GTP	H2	501	130	-	7/18/38/38	0/3/3/3
128	GTP	A1	501	130	-	8/18/38/38	0/3/3/3
128	GTP	J4	501	130	-	9/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
129	GDP	Cg	502	-	-	2/12/32/32	0/3/3/3
128	GTP	I1	501	130	-	9/18/38/38	0/3/3/3
128	GTP	DX	501	130	-	9/18/38/38	0/3/3/3
129	GDP	J1	503	-	-	5/12/32/32	0/3/3/3
128	GTP	Nf	501	-	-	7/18/38/38	0/3/3/3
128	GTP	Y4	501	130	-	5/18/38/38	0/3/3/3
128	GTP	Kj	502	130	-	7/18/38/38	0/3/3/3
129	GDP	KH	502	-	-	2/12/32/32	0/3/3/3
129	GDP	U8	502	-	-	4/12/32/32	0/3/3/3
128	GTP	I8	501	130	-	7/18/38/38	0/3/3/3
129	GDP	EW	501	-	-	1/12/32/32	0/3/3/3
128	GTP	S8	501	130	-	7/18/38/38	0/3/3/3
128	GTP	0O	501	130	-	7/18/38/38	0/3/3/3
129	GDP	Ij	501	-	-	2/12/32/32	0/3/3/3
128	GTP	T6	501	130	-	9/18/38/38	0/3/3/3
129	GDP	2I	502	-	-	2/12/32/32	0/3/3/3
129	GDP	KY	502	-	-	1/12/32/32	0/3/3/3
128	GTP	K6	501	130	-	9/18/38/38	0/3/3/3
129	GDP	R6	502	-	-	5/12/32/32	0/3/3/3
129	GDP	3S	502	-	-	1/12/32/32	0/3/3/3
129	GDP	Aw	501	-	-	2/12/32/32	0/3/3/3
129	GDP	Ed	502	-	-	1/12/32/32	0/3/3/3
128	GTP	GH	501	130	-	9/18/38/38	0/3/3/3
129	GDP	Y2	501	-	-	1/12/32/32	0/3/3/3
129	GDP	K6	502	-	-	4/12/32/32	0/3/3/3
129	GDP	E8	502	-	-	0/12/32/32	0/3/3/3
129	GDP	G4	501	-	-	3/12/32/32	0/3/3/3
128	GTP	Fg	501	130	-	7/18/38/38	0/3/3/3
128	GTP	O0	501	130	-	6/18/38/38	0/3/3/3
129	GDP	By	503	-	-	4/12/32/32	0/3/3/3
128	GTP	Dz	501	130	-	6/18/38/38	0/3/3/3
129	GDP	E0	501	-	-	1/12/32/32	0/3/3/3
128	GTP	0C	501	130	-	6/18/38/38	0/3/3/3
128	GTP	N8	501	130	-	6/18/38/38	0/3/3/3
129	GDP	Iw	502	-	-	1/12/32/32	0/3/3/3
129	GDP	El	502	-	-	1/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
128	GTP	Ci	501	130	-	8/18/38/38	0/3/3/3
128	GTP	Dw	501	130	-	10/18/38/38	0/3/3/3
128	GTP	MV	501	130	-	7/18/38/38	0/3/3/3
129	GDP	X8	501	-	-	1/12/32/32	0/3/3/3
128	GTP	Ei	501	130	-	6/18/38/38	0/3/3/3
129	GDP	C4	501	-	-	1/12/32/32	0/3/3/3
129	GDP	GB	502	-	-	4/12/32/32	0/3/3/3
128	GTP	Bf	502	130	-	8/18/38/38	0/3/3/3
129	GDP	Bj	501	-	-	5/12/32/32	0/3/3/3
129	GDP	BU	502	-	-	2/12/32/32	0/3/3/3
128	GTP	Cz	501	130	-	6/18/38/38	0/3/3/3
129	GDP	LJ	502	-	-	4/12/32/32	0/3/3/3
129	GDP	2S	502	-	-	3/12/32/32	0/3/3/3
128	GTP	Y6	501	130	-	9/18/38/38	0/3/3/3
128	GTP	F8	501	130	-	6/18/38/38	0/3/3/3
128	GTP	G3	502	130	-	5/18/38/38	0/3/3/3
129	GDP	2Y	502	-	-	1/12/32/32	0/3/3/3
129	GDP	W0	502	-	-	2/12/32/32	0/3/3/3
128	GTP	Fi	501	130	-	7/18/38/38	0/3/3/3
128	GTP	E8	501	130	-	7/18/38/38	0/3/3/3
128	GTP	N6	501	130	-	9/18/38/38	0/3/3/3
128	GTP	P4	501	130	-	7/18/38/38	0/3/3/3
129	GDP	Kj	503	-	-	4/12/32/32	0/3/3/3
129	GDP	3A	502	-	-	1/12/32/32	0/3/3/3
128	GTP	U4	501	130	-	10/18/38/38	0/3/3/3
129	GDP	1W	502	-	-	5/12/32/32	0/3/3/3
129	GDP	E6	502	-	-	1/12/32/32	0/3/3/3
129	GDP	S4	501	-	-	1/12/32/32	0/3/3/3
128	GTP	L2	501	130	-	7/18/38/38	0/3/3/3
128	GTP	Dm	501	130	-	8/18/38/38	0/3/3/3
128	GTP	G5	501	130	-	4/18/38/38	0/3/3/3
128	GTP	Ay	502	130	-	8/18/38/38	0/3/3/3
129	GDP	Z6	502	-	-	1/12/32/32	0/3/3/3
128	GTP	H3	501	130	-	8/18/38/38	0/3/3/3
128	GTP	Fv	501	130	-	8/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
128	GTP	V8	501	130	-	8/18/38/38	0/3/3/3
129	GDP	U2	502	-	-	1/12/32/32	0/3/3/3
128	GTP	J6	501	130	-	8/18/38/38	0/3/3/3
128	GTP	Av	501	130	-	8/18/38/38	0/3/3/3
128	GTP	NU	501	130	-	7/18/38/38	0/3/3/3
129	GDP	NU	502	-	-	2/12/32/32	0/3/3/3
129	GDP	0E	501	-	-	3/12/32/32	0/3/3/3
129	GDP	Ap	501	-	-	5/12/32/32	0/3/3/3
128	GTP	FW	501	130	-	8/18/38/38	0/3/3/3
129	GDP	8L	502	-	-	2/12/32/32	0/3/3/3
128	GTP	A4	501	130	-	7/18/38/38	0/3/3/3
128	GTP	E6	501	130	-	6/18/38/38	0/3/3/3
128	GTP	NF	501	-	-	6/18/38/38	0/3/3/3
128	GTP	CU	501	130	-	5/18/38/38	0/3/3/3
128	GTP	Ew	501	130	-	9/18/38/38	0/3/3/3
129	GDP	Ej	501	-	-	1/12/32/32	0/3/3/3
129	GDP	GJ	501	-	-	1/12/32/32	0/3/3/3
128	GTP	F0	501	130	-	5/18/38/38	0/3/3/3
129	GDP	BY	502	-	-	1/12/32/32	0/3/3/3
128	GTP	I0	501	130	-	8/18/38/38	0/3/3/3
129	GDP	ES	501	-	-	2/12/32/32	0/3/3/3
129	GDP	1G	502	-	-	5/12/32/32	0/3/3/3
129	GDP	Cm	502	-	-	3/12/32/32	0/3/3/3
129	GDP	D4	501	-	-	4/12/32/32	0/3/3/3
129	GDP	GD	502	-	-	3/12/32/32	0/3/3/3
128	GTP	F1	501	130	-	4/18/38/38	0/3/3/3
128	GTP	NS	501	-	-	6/18/38/38	0/3/3/3
129	GDP	Fe	502	-	-	4/12/32/32	0/3/3/3
129	GDP	EF	502	-	-	4/12/32/32	0/3/3/3
129	GDP	BM	501	-	-	5/12/32/32	0/3/3/3
129	GDP	Bn	501	-	-	2/12/32/32	0/3/3/3
128	GTP	Jw	501	130	-	5/18/38/38	0/3/3/3
129	GDP	JW	503	-	-	4/12/32/32	0/3/3/3
128	GTP	ED	501	130	-	8/18/38/38	0/3/3/3
128	GTP	JI	502	130	-	6/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
128	GTP	E4	501	130	-	6/18/38/38	0/3/3/3
129	GDP	I0	502	-	-	4/12/32/32	0/3/3/3
129	GDP	Ah	501	-	-	2/12/32/32	0/3/3/3
128	GTP	C5	501	130	-	5/18/38/38	0/3/3/3
128	GTP	1L	501	130	-	7/18/38/38	0/3/3/3
128	GTP	D3	501	130	-	3/18/38/38	0/3/3/3
128	GTP	Iy	501	130	-	8/18/38/38	0/3/3/3
129	GDP	Kl	502	-	-	4/12/32/32	0/3/3/3
129	GDP	FE	502	-	-	3/12/32/32	0/3/3/3
128	GTP	1D	501	130	-	4/18/38/38	0/3/3/3
129	GDP	3K	502	-	-	0/12/32/32	0/3/3/3
129	GDP	3M	502	-	-	1/12/32/32	0/3/3/3
128	GTP	K9	501	130	-	9/18/38/38	0/3/3/3
129	GDP	U6	502	-	-	3/12/32/32	0/3/3/3
128	GTP	2G	501	130	-	7/18/38/38	0/3/3/3
128	GTP	KY	501	130	-	6/18/38/38	0/3/3/3
128	GTP	U7	501	130	-	10/18/38/38	0/3/3/3
129	GDP	Fr	502	-	-	4/12/32/32	0/3/3/3
128	GTP	MH	501	130	-	6/18/38/38	0/3/3/3
128	GTP	S5	501	130	-	8/18/38/38	0/3/3/3
129	GDP	ED	502	-	-	4/12/32/32	0/3/3/3
129	GDP	B3	501	-	-	2/12/32/32	0/3/3/3
128	GTP	J0	501	130	-	8/18/38/38	0/3/3/3
128	GTP	X0	501	130	-	4/18/38/38	0/3/3/3
128	GTP	Bm	501	130	-	6/18/38/38	0/3/3/3
128	GTP	V2	501	130	-	7/18/38/38	0/3/3/3
129	GDP	2Q	502	-	-	2/12/32/32	0/3/3/3
129	GDP	KJ	501	-	-	2/12/32/32	0/3/3/3
129	GDP	KU	502	-	-	1/12/32/32	0/3/3/3
129	GDP	CT	501	-	-	3/12/32/32	0/3/3/3
128	GTP	Aj	501	130	-	7/18/38/38	0/3/3/3
129	GDP	FC	501	-	-	4/12/32/32	0/3/3/3
129	GDP	Q0	501	-	-	1/12/32/32	0/3/3/3
129	GDP	Dt	502	-	-	3/12/32/32	0/3/3/3
128	GTP	Bh	501	130	-	8/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
129	GDP	BS	501	-	-	3/12/32/32	0/3/3/3
128	GTP	Jy	501	130	-	8/18/38/38	0/3/3/3
128	GTP	Jh	501	130	-	6/18/38/38	0/3/3/3
129	GDP	0S	501	-	-	1/12/32/32	0/3/3/3
129	GDP	2C	502	-	-	3/12/32/32	0/3/3/3
128	GTP	DM	501	130	-	8/18/38/38	0/3/3/3
128	GTP	EV	501	130	-	5/18/38/38	0/3/3/3
128	GTP	M7	501	130	-	9/18/38/38	0/3/3/3
129	GDP	NF	502	-	-	1/12/32/32	0/3/3/3
129	GDP	V2	502	-	-	3/12/32/32	0/3/3/3
128	GTP	G7	501	130	-	8/18/38/38	0/3/3/3
128	GTP	K7	501	130	-	4/18/38/38	0/3/3/3
129	GDP	Aj	502	-	-	1/12/32/32	0/3/3/3
129	GDP	JY	501	-	-	5/12/32/32	0/3/3/3
128	GTP	2E	501	130	-	5/18/38/38	0/3/3/3
128	GTP	Fk	501	130	-	5/18/38/38	0/3/3/3
129	GDP	Z8	501	-	-	1/12/32/32	0/3/3/3
128	GTP	Mt	501	130	-	9/18/38/38	0/3/3/3
128	GTP	2C	501	130	-	5/18/38/38	0/3/3/3
129	GDP	DM	502	-	-	4/12/32/32	0/3/3/3
129	GDP	Q4	502	-	-	5/12/32/32	0/3/3/3
128	GTP	2I	501	130	-	8/18/38/38	0/3/3/3
128	GTP	2L	501	130	-	7/18/38/38	0/3/3/3
129	GDP	CI	503	-	-	1/12/32/32	0/3/3/3
129	GDP	KL	502	-	-	4/12/32/32	0/3/3/3
128	GTP	EQ	501	130	-	5/18/38/38	0/3/3/3
128	GTP	CX	501	130	-	5/18/38/38	0/3/3/3
128	GTP	P6	501	130	-	6/18/38/38	0/3/3/3
128	GTP	MT	501	130	-	4/18/38/38	0/3/3/3
128	GTP	NJ	501	130	-	5/18/38/38	0/3/3/3
128	GTP	DK	501	130	-	8/18/38/38	0/3/3/3
129	GDP	N2	501	-	-	4/12/32/32	0/3/3/3
128	GTP	D5	501	130	-	4/18/38/38	0/3/3/3
128	GTP	Iw	501	130	-	5/18/38/38	0/3/3/3
129	GDP	N8	502	-	-	1/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
129	GDP	B6	501	-	-	5/12/32/32	0/3/3/3
128	GTP	AT	501	130	-	9/18/38/38	0/3/3/3
129	GDP	Lu	502	-	-	2/12/32/32	0/3/3/3
129	GDP	2A	502	-	-	4/12/32/32	0/3/3/3
129	GDP	KW	502	-	-	1/12/32/32	0/3/3/3
129	GDP	0Q	503	-	-	4/12/32/32	0/3/3/3
128	GTP	ER	501	130	-	8/18/38/38	0/3/3/3
129	GDP	Mg	502	-	-	6/12/32/32	0/3/3/3
128	GTP	GD	501	130	-	8/18/38/38	0/3/3/3
129	GDP	Bl	502	-	-	5/12/32/32	0/3/3/3
129	GDP	FR	501	-	-	1/12/32/32	0/3/3/3
128	GTP	Bu	501	130	-	9/18/38/38	0/3/3/3
128	GTP	N0	501	130	-	9/18/38/38	0/3/3/3
129	GDP	Ci	502	-	-	4/12/32/32	0/3/3/3
129	GDP	0U	501	-	-	5/12/32/32	0/3/3/3
128	GTP	Cx	501	130	-	6/18/38/38	0/3/3/3
129	GDP	EQ	502	-	-	0/12/32/32	0/3/3/3
128	GTP	R4	501	130	-	9/18/38/38	0/3/3/3
128	GTP	CS	501	130	-	4/18/38/38	0/3/3/3
129	GDP	Q6	502	-	-	6/12/32/32	0/3/3/3
128	GTP	EI	501	130	-	9/18/38/38	0/3/3/3
129	GDP	1S	502	-	-	5/12/32/32	0/3/3/3
129	GDP	LV	501	-	-	1/12/32/32	0/3/3/3
128	GTP	LJ	501	130	-	9/18/38/38	0/3/3/3
128	GTP	KH	501	-	-	5/18/38/38	0/3/3/3
129	GDP	J2	502	-	-	1/12/32/32	0/3/3/3
128	GTP	2S	501	130	-	6/18/38/38	0/3/3/3
128	GTP	Bi	501	130	-	9/18/38/38	0/3/3/3
129	GDP	3G	502	-	-	4/12/32/32	0/3/3/3
128	GTP	DZ	501	130	-	9/18/38/38	0/3/3/3
128	GTP	Z6	501	130	-	5/18/38/38	0/3/3/3
129	GDP	F2	501	-	-	0/12/32/32	0/3/3/3
129	GDP	B8	501	-	-	2/12/32/32	0/3/3/3
128	GTP	Ee	501	130	-	6/18/38/38	0/3/3/3
128	GTP	FV	501	130	-	8/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
128	GTP	BU	501	130	-	6/18/38/38	0/3/3/3
128	GTP	Kl	501	130	-	7/18/38/38	0/3/3/3
129	GDP	2U	502	-	-	3/12/32/32	0/3/3/3
128	GTP	CE	502	130	-	8/18/38/38	0/3/3/3
129	GDP	Cx	502	-	-	1/12/32/32	0/3/3/3
129	GDP	MG	502	-	-	1/12/32/32	0/3/3/3
128	GTP	Li	501	130	-	9/18/38/38	0/3/3/3
129	GDP	Lh	502	-	-	1/12/32/32	0/3/3/3
128	GTP	Eq	501	130	-	7/18/38/38	0/3/3/3
128	GTP	D7	501	130	-	3/18/38/38	0/3/3/3
129	GDP	S0	502	-	-	1/12/32/32	0/3/3/3
129	GDP	An	502	-	-	5/12/32/32	0/3/3/3
129	GDP	Ba	502	-	-	1/12/32/32	0/3/3/3
128	GTP	El	501	130	-	7/18/38/38	0/3/3/3
129	GDP	DZ	502	-	-	3/12/32/32	0/3/3/3
128	GTP	B0	501	130	-	8/18/38/38	0/3/3/3
129	GDP	O2	502	-	-	1/12/32/32	0/3/3/3
129	GDP	GF	502	-	-	1/12/32/32	0/3/3/3
128	GTP	CK	501	130	-	8/18/38/38	0/3/3/3
128	GTP	8M	501	130	-	11/18/38/38	0/3/3/3
129	GDP	JU	503	-	-	6/12/32/32	0/3/3/3
128	GTP	Z3	501	130	-	4/18/38/38	0/3/3/3
128	GTP	Dr	501	130	-	10/18/38/38	0/3/3/3
128	GTP	K4	501	130	-	5/18/38/38	0/3/3/3
129	GDP	T0	501	-	-	4/12/32/32	0/3/3/3
128	GTP	B5	501	130	-	6/18/38/38	0/3/3/3
129	GDP	0K	502	-	-	1/12/32/32	0/3/3/3
128	GTP	W5	501	130	-	8/18/38/38	0/3/3/3
129	GDP	V6	501	-	-	5/12/32/32	0/3/3/3
129	GDP	P6	503	-	-	0/12/32/32	0/3/3/3
128	GTP	Fp	501	130	-	8/18/38/38	0/3/3/3
128	GTP	CG	501	130	-	9/18/38/38	0/3/3/3
128	GTP	E0	502	130	-	6/18/38/38	0/3/3/3
129	GDP	K0	502	-	-	5/12/32/32	0/3/3/3
128	GTP	DH	501	130	-	8/18/38/38	0/3/3/3
128	GTP	1C	501	130	-	6/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
129	GDP	T6	502	-	-	1/12/32/32	0/3/3/3
128	GTP	By	502	130	-	8/18/38/38	0/3/3/3
128	GTP	Nh	501	130	-	8/18/38/38	0/3/3/3
128	GTP	3M	501	130	-	6/18/38/38	0/3/3/3
128	GTP	IL	501	130	-	4/18/38/38	0/3/3/3
128	GTP	Y1	501	130	-	3/18/38/38	0/3/3/3
129	GDP	Kh	501	-	-	1/12/32/32	0/3/3/3
128	GTP	2K	501	130	-	9/18/38/38	0/3/3/3
129	GDP	DT	502	-	-	3/12/32/32	0/3/3/3
129	GDP	I4	503	-	-	2/12/32/32	0/3/3/3
129	GDP	H6	502	-	-	5/12/32/32	0/3/3/3
128	GTP	Di	501	130	-	6/18/38/38	0/3/3/3
128	GTP	Bb	501	130	-	5/18/38/38	0/3/3/3
129	GDP	Q8	501	-	-	1/12/32/32	0/3/3/3
129	GDP	1C	502	-	-	6/12/32/32	0/3/3/3
128	GTP	0I	502	130	-	8/18/38/38	0/3/3/3
129	GDP	GH	502	-	-	1/12/32/32	0/3/3/3
129	GDP	1M	501	-	-	4/12/32/32	0/3/3/3
128	GTP	EF	501	130	-	8/18/38/38	0/3/3/3
128	GTP	Kx	501	130	-	8/18/38/38	0/3/3/3
129	GDP	0C	502	-	-	2/12/32/32	0/3/3/3
128	GTP	Ce	502	130	-	10/18/38/38	0/3/3/3
129	GDP	X2	501	-	-	1/12/32/32	0/3/3/3
129	GDP	M8	501	-	-	2/12/32/32	0/3/3/3
128	GTP	H6	501	130	-	7/18/38/38	0/3/3/3
129	GDP	Dk	502	-	-	6/12/32/32	0/3/3/3
128	GTP	0Q	502	130	-	6/18/38/38	0/3/3/3
129	GDP	Eu	502	-	-	2/12/32/32	0/3/3/3
128	GTP	IX	501	130	-	7/18/38/38	0/3/3/3
129	GDP	NW	502	-	-	2/12/32/32	0/3/3/3
128	GTP	NH	501	130	-	6/18/38/38	0/3/3/3
128	GTP	CZ	501	130	-	8/18/38/38	0/3/3/3
128	GTP	S9	501	130	-	8/18/38/38	0/3/3/3
128	GTP	C4	502	130	-	4/18/38/38	0/3/3/3
128	GTP	KI	501	130	-	8/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
129	GDP	Bf	501	-	-	5/12/32/32	0/3/3/3
129	GDP	K8	501	-	-	2/12/32/32	0/3/3/3
129	GDP	D6	501	-	-	3/12/32/32	0/3/3/3
128	GTP	EL	501	130	-	7/18/38/38	0/3/3/3
128	GTP	Ii	501	130	-	3/18/38/38	0/3/3/3
129	GDP	Au	501	-	-	2/12/32/32	0/3/3/3
129	GDP	MI	501	-	-	1/12/32/32	0/3/3/3
129	GDP	CG	502	-	-	1/12/32/32	0/3/3/3
129	GDP	IY	501	-	-	2/12/32/32	0/3/3/3
129	GDP	G6	501	-	-	5/12/32/32	0/3/3/3
128	GTP	FE	501	130	-	7/18/38/38	0/3/3/3
128	GTP	LX	501	130	-	7/18/38/38	0/3/3/3
129	GDP	Eh	502	-	-	1/12/32/32	0/3/3/3
128	GTP	Az	501	130	-	7/18/38/38	0/3/3/3
128	GTP	Ik	501	130	-	2/18/38/38	0/3/3/3
128	GTP	MG	501	130	-	7/18/38/38	0/3/3/3
128	GTP	JK	501	130	-	5/18/38/38	0/3/3/3
128	GTP	Dt	501	130	-	7/18/38/38	0/3/3/3
128	GTP	R0	501	130	-	8/18/38/38	0/3/3/3
128	GTP	JU	501	130	-	7/18/38/38	0/3/3/3
128	GTP	S0	501	130	-	9/18/38/38	0/3/3/3
128	GTP	DE	501	130	-	6/18/38/38	0/3/3/3
128	GTP	T8	501	130	-	4/18/38/38	0/3/3/3

All (1122) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
128	NH	501	GTP	PA-O3A	10.50	1.70	1.59
128	NH	501	GTP	PB-O3A	9.75	1.70	1.59
128	E8	501	GTP	C5-C6	-4.62	1.38	1.47
128	Ak	501	GTP	C5-C6	-4.44	1.38	1.47
128	DM	501	GTP	C5-C6	-4.41	1.38	1.47
128	DZ	501	GTP	C5-C6	-4.41	1.38	1.47
128	R8	502	GTP	C5-C6	-4.39	1.38	1.47
128	DX	501	GTP	C5-C6	-4.37	1.38	1.47
128	Ay	502	GTP	C5-C6	-4.37	1.38	1.47
128	Az	501	GTP	C5-C6	-4.37	1.38	1.47
128	Cm	501	GTP	C5-C6	-4.37	1.38	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
128	Q6	501	GTP	C5-C6	-4.35	1.38	1.47
128	S0	501	GTP	C5-C6	-4.34	1.38	1.47
128	Bl	501	GTP	C5-C6	-4.34	1.38	1.47
128	At	501	GTP	C5-C6	-4.34	1.38	1.47
128	DR	501	GTP	C5-C6	-4.33	1.38	1.47
128	Dk	501	GTP	C5-C6	-4.32	1.38	1.47
128	Bz	501	GTP	C5-C6	-4.32	1.38	1.47
128	An	501	GTP	C5-C6	-4.31	1.38	1.47
128	CX	501	GTP	C5-C6	-4.31	1.38	1.47
128	Cg	501	GTP	C5-C6	-4.31	1.38	1.47
128	N0	501	GTP	C5-C6	-4.31	1.38	1.47
128	Bm	501	GTP	C5-C6	-4.30	1.38	1.47
128	Bi	501	GTP	C5-C6	-4.30	1.38	1.47
128	DV	501	GTP	C5-C6	-4.30	1.38	1.47
128	Ao	501	GTP	C5-C6	-4.30	1.38	1.47
128	Es	501	GTP	C5-C6	-4.30	1.38	1.47
128	By	502	GTP	C5-C6	-4.29	1.39	1.47
128	GD	501	GTP	C5-C6	-4.29	1.39	1.47
128	CU	501	GTP	C5-C6	-4.29	1.39	1.47
128	Bh	501	GTP	C5-C6	-4.28	1.39	1.47
128	CZ	501	GTP	C5-C6	-4.28	1.39	1.47
128	Bu	501	GTP	C5-C6	-4.28	1.39	1.47
128	De	501	GTP	C5-C6	-4.28	1.39	1.47
128	Fr	501	GTP	C5-C6	-4.28	1.39	1.47
128	Dm	501	GTP	C5-C6	-4.28	1.39	1.47
128	A2	501	GTP	C5-C6	-4.27	1.39	1.47
128	I1	501	GTP	C5-C6	-4.27	1.39	1.47
128	CS	501	GTP	C5-C6	-4.27	1.39	1.47
128	EU	501	GTP	C5-C6	-4.27	1.39	1.47
128	S2	501	GTP	C5-C6	-4.27	1.39	1.47
128	Aj	501	GTP	C5-C6	-4.27	1.39	1.47
128	T4	501	GTP	C5-C6	-4.27	1.39	1.47
128	Bw	501	GTP	C5-C6	-4.26	1.39	1.47
128	C1	501	GTP	C5-C6	-4.26	1.39	1.47
128	D7	501	GTP	C5-C6	-4.26	1.39	1.47
128	CI	501	GTP	C5-C6	-4.26	1.39	1.47
128	Cj	501	GTP	C5-C6	-4.26	1.39	1.47
128	DK	501	GTP	C5-C6	-4.26	1.39	1.47
128	Q4	501	GTP	C5-C6	-4.26	1.39	1.47
128	T8	501	GTP	C5-C6	-4.26	1.39	1.47
128	Bo	501	GTP	C5-C6	-4.26	1.39	1.47
128	GI	501	GTP	C5-C6	-4.26	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
128	CM	502	GTP	C5-C6	-4.26	1.39	1.47
128	Ft	501	GTP	C5-C6	-4.26	1.39	1.47
128	K0	501	GTP	C5-C6	-4.26	1.39	1.47
128	C0	501	GTP	C5-C6	-4.25	1.39	1.47
128	A1	501	GTP	C5-C6	-4.25	1.39	1.47
128	Av	501	GTP	C5-C6	-4.25	1.39	1.47
128	BY	501	GTP	C5-C6	-4.25	1.39	1.47
128	CG	501	GTP	C5-C6	-4.25	1.39	1.47
128	DT	501	GTP	C5-C6	-4.25	1.39	1.47
128	I5	501	GTP	C5-C6	-4.25	1.39	1.47
128	0Q	502	GTP	C5-C6	-4.25	1.39	1.47
128	Fl	501	GTP	C5-C6	-4.25	1.39	1.47
128	J8	502	GTP	C5-C6	-4.25	1.39	1.47
128	Dw	501	GTP	C5-C6	-4.24	1.39	1.47
128	BB	501	GTP	C5-C6	-4.24	1.39	1.47
128	Cz	501	GTP	C5-C6	-4.24	1.39	1.47
128	Dz	501	GTP	C5-C6	-4.24	1.39	1.47
128	Ew	501	GTP	C5-C6	-4.24	1.39	1.47
128	U2	501	GTP	C5-C6	-4.24	1.39	1.47
128	0A	501	GTP	C5-C6	-4.24	1.39	1.47
128	DH	501	GTP	C5-C6	-4.24	1.39	1.47
128	Dt	501	GTP	C5-C6	-4.24	1.39	1.47
128	Ag	501	GTP	C5-C6	-4.24	1.39	1.47
128	Du	501	GTP	C5-C6	-4.24	1.39	1.47
128	FJ	501	GTP	C5-C6	-4.24	1.39	1.47
128	1D	501	GTP	C5-C6	-4.24	1.39	1.47
128	N1	501	GTP	C5-C6	-4.23	1.39	1.47
128	FI	501	GTP	C5-C6	-4.23	1.39	1.47
128	3O	501	GTP	C5-C6	-4.23	1.39	1.47
128	T6	501	GTP	C5-C6	-4.23	1.39	1.47
128	Fp	501	GTP	C5-C6	-4.23	1.39	1.47
128	V2	501	GTP	C5-C6	-4.23	1.39	1.47
128	GB	501	GTP	C5-C6	-4.23	1.39	1.47
128	ED	501	GTP	C5-C6	-4.23	1.39	1.47
128	I4	502	GTP	C5-C6	-4.23	1.39	1.47
128	3C	501	GTP	C5-C6	-4.22	1.39	1.47
128	3S	501	GTP	C5-C6	-4.22	1.39	1.47
128	1W	501	GTP	C5-C6	-4.22	1.39	1.47
128	Ce	502	GTP	C5-C6	-4.22	1.39	1.47
128	GH	501	GTP	C5-C6	-4.22	1.39	1.47
128	DE	501	GTP	C5-C6	-4.22	1.39	1.47
128	FQ	501	GTP	C5-C6	-4.22	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
128	EI	501	GTP	C5-C6	-4.22	1.39	1.47
128	1T	501	GTP	C5-C6	-4.22	1.39	1.47
128	8L	501	GTP	C5-C6	-4.22	1.39	1.47
128	Cr	502	GTP	C5-C6	-4.22	1.39	1.47
128	Ci	501	GTP	C5-C6	-4.21	1.39	1.47
128	X0	501	GTP	C5-C6	-4.21	1.39	1.47
128	CK	501	GTP	C5-C6	-4.21	1.39	1.47
128	I8	501	GTP	C5-C6	-4.21	1.39	1.47
128	2L	501	GTP	C5-C6	-4.21	1.39	1.47
128	Ct	501	GTP	C5-C6	-4.21	1.39	1.47
128	Ee	501	GTP	C5-C6	-4.21	1.39	1.47
128	FG	501	GTP	C5-C6	-4.21	1.39	1.47
128	DG	501	GTP	C5-C6	-4.21	1.39	1.47
128	G7	501	GTP	C5-C6	-4.21	1.39	1.47
128	G5	501	GTP	C5-C6	-4.21	1.39	1.47
128	CR	502	GTP	C5-C6	-4.20	1.39	1.47
128	3A	501	GTP	C5-C6	-4.20	1.39	1.47
128	Eq	501	GTP	C5-C6	-4.20	1.39	1.47
128	L4	501	GTP	C5-C6	-4.20	1.39	1.47
128	B0	501	GTP	C5-C6	-4.20	1.39	1.47
128	W5	501	GTP	C5-C6	-4.20	1.39	1.47
128	FV	501	GTP	C5-C6	-4.20	1.39	1.47
128	GF	501	GTP	C5-C6	-4.20	1.39	1.47
128	Bf	502	GTP	C5-C6	-4.19	1.39	1.47
128	H2	501	GTP	C5-C6	-4.19	1.39	1.47
128	El	501	GTP	C5-C6	-4.19	1.39	1.47
128	FT	502	GTP	C5-C6	-4.19	1.39	1.47
128	K4	501	GTP	C5-C6	-4.19	1.39	1.47
128	A4	501	GTP	C5-C6	-4.19	1.39	1.47
128	0R	502	GTP	C5-C6	-4.19	1.39	1.47
128	1L	501	GTP	C5-C6	-4.19	1.39	1.47
128	Df	501	GTP	C5-C6	-4.18	1.39	1.47
128	EH	501	GTP	C5-C6	-4.18	1.39	1.47
128	KL	501	GTP	C5-C6	-4.18	1.39	1.47
128	Fv	501	GTP	C5-C6	-4.18	1.39	1.47
128	BG	501	GTP	C5-C6	-4.18	1.39	1.47
128	L2	501	GTP	C5-C6	-4.18	1.39	1.47
128	1G	501	GTP	C5-C6	-4.18	1.39	1.47
128	F0	501	GTP	C5-C6	-4.18	1.39	1.47
128	3P	501	GTP	C5-C6	-4.18	1.39	1.47
128	Cv	502	GTP	C5-C6	-4.18	1.39	1.47
128	F3	501	GTP	C5-C6	-4.18	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
128	Fx	501	GTP	C5-C6	-4.17	1.39	1.47
128	Dr	501	GTP	C5-C6	-4.17	1.39	1.47
128	M6	501	GTP	C5-C6	-4.17	1.39	1.47
128	V3	501	GTP	C5-C6	-4.17	1.39	1.47
128	Ed	501	GTP	C5-C6	-4.17	1.39	1.47
128	Fg	501	GTP	C5-C6	-4.17	1.39	1.47
128	CE	502	GTP	C5-C6	-4.17	1.39	1.47
128	IX	501	GTP	C5-C6	-4.17	1.39	1.47
128	EQ	501	GTP	C5-C6	-4.17	1.39	1.47
128	1H	501	GTP	C5-C6	-4.17	1.39	1.47
128	Nh	501	GTP	C5-C6	-4.17	1.39	1.47
128	F8	501	GTP	C5-C6	-4.17	1.39	1.47
128	F1	501	GTP	C5-C6	-4.16	1.39	1.47
128	B5	501	GTP	C5-C6	-4.16	1.39	1.47
128	ER	501	GTP	C5-C6	-4.16	1.39	1.47
128	BJ	501	GTP	C5-C6	-4.16	1.39	1.47
128	D5	501	GTP	C5-C6	-4.16	1.39	1.47
128	I0	501	GTP	C5-C6	-4.16	1.39	1.47
128	Fk	501	GTP	C5-C6	-4.16	1.39	1.47
128	NS	501	GTP	C5-C6	-4.16	1.39	1.47
128	B7	501	GTP	C5-C6	-4.16	1.39	1.47
128	FE	501	GTP	C5-C6	-4.16	1.39	1.47
128	Ik	501	GTP	C5-C6	-4.16	1.39	1.47
128	J2	501	GTP	C5-C6	-4.16	1.39	1.47
128	2E	501	GTP	C5-C6	-4.16	1.39	1.47
128	O6	501	GTP	C5-C6	-4.16	1.39	1.47
128	Fc	501	GTP	C5-C6	-4.16	1.39	1.47
128	S8	501	GTP	C5-C6	-4.16	1.39	1.47
128	BW	501	GTP	C5-C6	-4.16	1.39	1.47
128	EL	501	GTP	C5-C6	-4.16	1.39	1.47
128	8H	501	GTP	C5-C6	-4.15	1.39	1.47
128	Cx	501	GTP	C5-C6	-4.15	1.39	1.47
128	Di	501	GTP	C5-C6	-4.15	1.39	1.47
128	Ei	501	GTP	C5-C6	-4.15	1.39	1.47
128	D3	501	GTP	C5-C6	-4.15	1.39	1.47
128	G0	501	GTP	C5-C6	-4.15	1.39	1.47
128	LH	501	GTP	C5-C6	-4.15	1.39	1.47
128	Y4	501	GTP	C5-C6	-4.15	1.39	1.47
128	OK	501	GTP	C5-C6	-4.15	1.39	1.47
128	FW	501	GTP	C5-C6	-4.15	1.39	1.47
128	K7	501	GTP	C5-C6	-4.15	1.39	1.47
128	IW	501	GTP	C5-C6	-4.15	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
128	BN	501	GTP	C5-C6	-4.15	1.39	1.47
128	N8	501	GTP	C5-C6	-4.15	1.39	1.47
128	Fi	501	GTP	C5-C6	-4.15	1.39	1.47
128	KI	501	GTP	C5-C6	-4.15	1.39	1.47
128	LX	501	GTP	C5-C6	-4.14	1.39	1.47
128	Jw	501	GTP	C5-C6	-4.14	1.39	1.47
128	Jl	502	GTP	C5-C6	-4.14	1.39	1.47
128	Li	501	GTP	C5-C6	-4.14	1.39	1.47
128	2G	501	GTP	C5-C6	-4.14	1.39	1.47
128	Eh	501	GTP	C5-C6	-4.14	1.39	1.47
128	Ba	501	GTP	C5-C6	-4.14	1.39	1.47
128	J6	501	GTP	C5-C6	-4.14	1.39	1.47
128	W4	501	GTP	C5-C6	-4.14	1.39	1.47
128	EF	501	GTP	C5-C6	-4.14	1.39	1.47
128	IK	501	GTP	C5-C6	-4.14	1.39	1.47
128	Mh	501	GTP	C5-C6	-4.14	1.39	1.47
128	Y6	501	GTP	C5-C6	-4.14	1.39	1.47
128	EY	501	GTP	C5-C6	-4.13	1.39	1.47
128	IL	501	GTP	C5-C6	-4.13	1.39	1.47
128	Jj	501	GTP	C5-C6	-4.13	1.39	1.47
128	U4	501	GTP	C5-C6	-4.13	1.39	1.47
128	Nf	501	GTP	C5-C6	-4.13	1.39	1.47
128	W8	501	GTP	C5-C6	-4.13	1.39	1.47
128	JK	501	GTP	C5-C6	-4.13	1.39	1.47
128	Z2	501	GTP	C5-C6	-4.13	1.39	1.47
128	T2	501	GTP	C5-C6	-4.13	1.39	1.47
128	L6	501	GTP	C5-C6	-4.13	1.39	1.47
128	Lu	501	GTP	C5-C6	-4.13	1.39	1.47
128	Jy	501	GTP	C5-C6	-4.12	1.39	1.47
128	R0	501	GTP	C5-C6	-4.12	1.39	1.47
128	1S	501	GTP	C5-C6	-4.12	1.39	1.47
128	1X	501	GTP	C5-C6	-4.12	1.39	1.47
128	KW	501	GTP	C5-C6	-4.12	1.39	1.47
128	U7	501	GTP	C5-C6	-4.12	1.39	1.47
128	W0	501	GTP	C5-C6	-4.12	1.39	1.47
128	H3	501	GTP	C5-C6	-4.12	1.39	1.47
128	A9	501	GTP	C5-C6	-4.12	1.39	1.47
128	NJ	501	GTP	C5-C6	-4.12	1.39	1.47
128	0O	501	GTP	C5-C6	-4.12	1.39	1.47
128	Lv	501	GTP	C5-C6	-4.12	1.39	1.47
128	R6	501	GTP	C5-C6	-4.12	1.39	1.47
128	B2	501	GTP	C5-C6	-4.12	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
128	P6	501	GTP	C5-C6	-4.12	1.39	1.47
128	P8	501	GTP	C5-C6	-4.12	1.39	1.47
128	Ni	501	GTP	C5-C6	-4.12	1.39	1.47
128	G1	501	GTP	C5-C6	-4.12	1.39	1.47
128	Kx	501	GTP	C5-C6	-4.12	1.39	1.47
128	MG	501	GTP	C5-C6	-4.12	1.39	1.47
128	O2	501	GTP	C5-C6	-4.12	1.39	1.47
128	Mg	501	GTP	C5-C6	-4.12	1.39	1.47
128	M0	501	GTP	C5-C6	-4.12	1.39	1.47
128	Y0	501	GTP	C5-C6	-4.11	1.39	1.47
128	R2	502	GTP	C5-C6	-4.11	1.39	1.47
128	Z7	501	GTP	C5-C6	-4.11	1.39	1.47
128	M2	501	GTP	C5-C6	-4.11	1.39	1.47
128	Y1	501	GTP	C5-C6	-4.11	1.39	1.47
128	W2	501	GTP	C5-C6	-4.11	1.39	1.47
128	BL	501	GTP	C5-C6	-4.11	1.39	1.47
128	0Y	501	GTP	C5-C6	-4.11	1.39	1.47
128	C8	501	GTP	C5-C6	-4.11	1.39	1.47
128	2Y	501	GTP	C5-C6	-4.11	1.39	1.47
128	2S	501	GTP	C5-C6	-4.11	1.39	1.47
128	C5	501	GTP	C5-C6	-4.11	1.39	1.47
128	E0	502	GTP	C5-C6	-4.11	1.39	1.47
128	Bb	501	GTP	C5-C6	-4.11	1.39	1.47
128	M7	501	GTP	C5-C6	-4.11	1.39	1.47
128	O4	502	GTP	C5-C6	-4.11	1.39	1.47
128	Eu	501	GTP	C5-C6	-4.11	1.39	1.47
128	Iw	501	GTP	C5-C6	-4.11	1.39	1.47
128	NU	501	GTP	C5-C6	-4.11	1.39	1.47
128	0M	501	GTP	C5-C6	-4.11	1.39	1.47
128	2Q	501	GTP	C5-C6	-4.11	1.39	1.47
128	X4	501	GTP	C5-C6	-4.11	1.39	1.47
128	1Q	501	GTP	C5-C6	-4.10	1.39	1.47
128	Kj	502	GTP	C5-C6	-4.10	1.39	1.47
128	E4	501	GTP	C5-C6	-4.10	1.39	1.47
128	2K	501	GTP	C5-C6	-4.10	1.39	1.47
128	BU	501	GTP	C5-C6	-4.10	1.39	1.47
128	P4	501	GTP	C5-C6	-4.10	1.39	1.47
128	AT	501	GTP	C5-C6	-4.10	1.39	1.47
128	Z6	501	GTP	C5-C6	-4.10	1.39	1.47
128	P9	501	GTP	C5-C6	-4.10	1.39	1.47
128	V8	501	GTP	C5-C6	-4.10	1.39	1.47
128	8M	501	GTP	C5-C6	-4.10	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
128	R4	501	GTP	C5-C6	-4.10	1.39	1.47
128	H6	501	GTP	C5-C6	-4.10	1.39	1.47
128	Jh	501	GTP	C5-C6	-4.10	1.39	1.47
128	N6	501	GTP	C5-C6	-4.10	1.39	1.47
128	K9	501	GTP	C5-C6	-4.10	1.39	1.47
128	NF	501	GTP	C5-C6	-4.10	1.39	1.47
128	2W	501	GTP	C5-C6	-4.10	1.39	1.47
128	Fe	501	GTP	C5-C6	-4.10	1.39	1.47
128	JW	502	GTP	C5-C6	-4.10	1.39	1.47
128	K6	501	GTP	C5-C6	-4.10	1.39	1.47
128	MH	501	GTP	C5-C6	-4.10	1.39	1.47
128	O8	501	GTP	C5-C6	-4.10	1.39	1.47
128	3G	501	GTP	C5-C6	-4.10	1.39	1.47
128	C4	502	GTP	C5-C6	-4.10	1.39	1.47
128	F5	501	GTP	C5-C6	-4.10	1.39	1.47
128	E1	501	GTP	C5-C6	-4.09	1.39	1.47
128	MV	501	GTP	C5-C6	-4.09	1.39	1.47
128	0V	501	GTP	C5-C6	-4.09	1.39	1.47
128	Q2	501	GTP	C5-C6	-4.09	1.39	1.47
128	U6	501	GTP	C5-C6	-4.09	1.39	1.47
128	LJ	501	GTP	C5-C6	-4.09	1.39	1.47
128	KH	501	GTP	C5-C6	-4.09	1.39	1.47
128	X6	501	GTP	C5-C6	-4.09	1.39	1.47
128	0I	502	GTP	C5-C6	-4.09	1.39	1.47
128	J0	501	GTP	C5-C6	-4.09	1.39	1.47
128	2A	501	GTP	C5-C6	-4.09	1.39	1.47
128	JU	501	GTP	C5-C6	-4.09	1.39	1.47
128	Kl	501	GTP	C5-C6	-4.09	1.39	1.47
128	D1	501	GTP	C5-C6	-4.09	1.39	1.47
128	S5	501	GTP	C5-C6	-4.09	1.39	1.47
128	H8	501	GTP	C5-C6	-4.08	1.39	1.47
128	2U	501	GTP	C5-C6	-4.08	1.39	1.47
128	MT	501	GTP	C5-C6	-4.08	1.39	1.47
128	3I	501	GTP	C5-C6	-4.08	1.39	1.47
128	Ii	501	GTP	C5-C6	-4.08	1.39	1.47
128	3K	501	GTP	C5-C6	-4.08	1.39	1.47
128	KU	501	GTP	C5-C6	-4.08	1.39	1.47
128	0F	501	GTP	C5-C6	-4.08	1.39	1.47
128	U9	501	GTP	C5-C6	-4.08	1.39	1.47
128	2I	501	GTP	C5-C6	-4.08	1.39	1.47
128	3M	501	GTP	C5-C6	-4.08	1.39	1.47
128	LU	501	GTP	C5-C6	-4.08	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
128	Z0	501	GTP	C5-C6	-4.08	1.39	1.47
128	JI	502	GTP	C5-C6	-4.07	1.39	1.47
128	Mu	501	GTP	C5-C6	-4.07	1.39	1.47
128	NW	501	GTP	C5-C6	-4.07	1.39	1.47
128	1N	501	GTP	C5-C6	-4.07	1.39	1.47
128	8I	501	GTP	C5-C6	-4.07	1.39	1.47
128	Lh	501	GTP	C5-C6	-4.07	1.39	1.47
128	M4	501	GTP	C5-C6	-4.07	1.39	1.47
128	O0	501	GTP	C5-C6	-4.07	1.39	1.47
128	J4	501	GTP	C5-C6	-4.07	1.39	1.47
128	1A	501	GTP	C5-C6	-4.06	1.39	1.47
128	BH	501	GTP	C5-C6	-4.06	1.39	1.47
128	Mt	501	GTP	C5-C6	-4.06	1.39	1.47
128	0C	501	GTP	C5-C6	-4.06	1.39	1.47
128	1C	501	GTP	C5-C6	-4.06	1.39	1.47
128	EV	501	GTP	C5-C6	-4.06	1.39	1.47
128	S9	501	GTP	C5-C6	-4.06	1.39	1.47
128	JX	501	GTP	C5-C6	-4.06	1.39	1.47
128	Kv	501	GTP	C5-C6	-4.06	1.39	1.47
128	C9	501	GTP	C5-C6	-4.06	1.39	1.47
128	Iy	501	GTP	C5-C6	-4.05	1.39	1.47
128	KY	501	GTP	C5-C6	-4.04	1.39	1.47
128	E6	501	GTP	C5-C6	-4.04	1.39	1.47
128	2C	501	GTP	C5-C6	-4.04	1.39	1.47
128	X7	501	GTP	C5-C6	-4.02	1.39	1.47
128	Z3	501	GTP	C5-C6	-4.02	1.39	1.47
128	NH	501	GTP	C5-C6	-3.94	1.39	1.47
128	G3	502	GTP	C5-C6	-3.84	1.39	1.47
128	Eu	501	GTP	PB-O3B	2.95	1.62	1.59
128	X4	501	GTP	PB-O3B	2.76	1.62	1.59
128	E8	501	GTP	C2-N3	2.72	1.39	1.33
128	G3	502	GTP	C2-N3	2.67	1.39	1.33
129	0G	501	GDP	PA-O3A	2.59	1.62	1.59
129	R8	503	GDP	C6-N1	-2.52	1.33	1.37
129	Bj	501	GDP	C6-N1	-2.51	1.34	1.37
129	Cz	502	GDP	C6-N1	-2.50	1.34	1.37
129	DX	502	GDP	C6-N1	-2.50	1.34	1.37
129	CR	501	GDP	C6-N1	-2.48	1.34	1.37
129	H2	502	GDP	C6-N1	-2.47	1.34	1.37
129	Bh	502	GDP	C6-N1	-2.46	1.34	1.37
128	2C	501	GTP	PB-O3A	2.46	1.62	1.59
129	D8	501	GDP	C6-N1	-2.46	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
129	DT	502	GDP	C6-N1	-2.46	1.34	1.37
129	DE	502	GDP	C6-N1	-2.45	1.34	1.37
129	DK	502	GDP	C6-N1	-2.45	1.34	1.37
129	FR	501	GDP	C6-N1	-2.45	1.34	1.37
129	1U	501	GDP	C6-N1	-2.45	1.34	1.37
129	Ft	502	GDP	C6-N1	-2.45	1.34	1.37
129	W6	501	GDP	C6-N1	-2.45	1.34	1.37
129	Cm	502	GDP	C6-N1	-2.45	1.34	1.37
129	CM	503	GDP	C6-N1	-2.44	1.34	1.37
129	Bl	502	GDP	C6-N1	-2.44	1.34	1.37
129	3Q	501	GDP	C6-N1	-2.44	1.34	1.37
129	DR	502	GDP	C6-N1	-2.44	1.34	1.37
129	DZ	502	GDP	C6-N1	-2.43	1.34	1.37
129	FG	502	GDP	C6-N1	-2.43	1.34	1.37
129	BW	502	GDP	C6-N1	-2.43	1.34	1.37
129	DG	502	GDP	C6-N1	-2.42	1.34	1.37
129	Cx	502	GDP	C6-N1	-2.42	1.34	1.37
129	L4	502	GDP	C6-N1	-2.42	1.34	1.37
129	Ci	502	GDP	C6-N1	-2.42	1.34	1.37
129	Eq	502	GDP	C6-N1	-2.42	1.34	1.37
129	EJ	501	GDP	C6-N1	-2.42	1.34	1.37
129	Dx	501	GDP	C6-N1	-2.41	1.34	1.37
129	CG	502	GDP	C6-N1	-2.41	1.34	1.37
129	Ba	502	GDP	C6-N1	-2.41	1.34	1.37
129	CX	502	GDP	C6-N1	-2.41	1.34	1.37
129	3O	502	GDP	C6-N1	-2.41	1.34	1.37
129	Cg	502	GDP	C6-N1	-2.41	1.34	1.37
129	DV	502	GDP	C6-N1	-2.41	1.34	1.37
129	EH	502	GDP	C6-N1	-2.41	1.34	1.37
129	FI	502	GDP	C6-N1	-2.41	1.34	1.37
129	H6	502	GDP	C6-N1	-2.41	1.34	1.37
129	A6	501	GDP	C6-N1	-2.40	1.34	1.37
129	Al	501	GDP	C6-N1	-2.40	1.34	1.37
129	S0	502	GDP	C6-N1	-2.40	1.34	1.37
129	CE	501	GDP	C6-N1	-2.40	1.34	1.37
129	CK	502	GDP	C6-N1	-2.40	1.34	1.37
129	Dk	502	GDP	C6-N1	-2.40	1.34	1.37
129	EL	502	GDP	C6-N1	-2.40	1.34	1.37
129	Fk	502	GDP	C6-N1	-2.40	1.34	1.37
129	Ap	501	GDP	C6-N1	-2.40	1.34	1.37
129	BY	502	GDP	C6-N1	-2.40	1.34	1.37
129	Bw	503	GDP	C6-N1	-2.40	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
129	C2	501	GDP	C6-N1	-2.40	1.34	1.37
129	3A	502	GDP	C6-N1	-2.40	1.34	1.37
129	GD	502	GDP	C6-N1	-2.40	1.34	1.37
129	Q4	502	GDP	C6-N1	-2.40	1.34	1.37
129	B6	501	GDP	C6-N1	-2.40	1.34	1.37
129	S2	502	GDP	C6-N1	-2.40	1.34	1.37
129	Dg	501	GDP	C6-N1	-2.40	1.34	1.37
129	A5	501	GDP	C6-N1	-2.39	1.34	1.37
129	CI	503	GDP	C6-N1	-2.39	1.34	1.37
129	2M	501	GDP	C6-N1	-2.39	1.34	1.37
129	M8	501	GDP	C6-N1	-2.39	1.34	1.37
129	CZ	502	GDP	C6-N1	-2.39	1.34	1.37
129	GB	502	GDP	C6-N1	-2.39	1.34	1.37
129	FE	502	GDP	C6-N1	-2.39	1.34	1.37
129	L2	502	GDP	C6-N1	-2.39	1.34	1.37
129	An	502	GDP	C6-N1	-2.39	1.34	1.37
129	T6	502	GDP	C6-N1	-2.39	1.34	1.37
129	BM	501	GDP	C6-N1	-2.39	1.34	1.37
129	J8	503	GDP	C6-N1	-2.39	1.34	1.37
129	Aw	501	GDP	C6-N1	-2.39	1.34	1.37
129	A3	501	GDP	C6-N1	-2.39	1.34	1.37
129	1G	502	GDP	C6-N1	-2.38	1.34	1.37
129	N0	502	GDP	C6-N1	-2.38	1.34	1.37
129	EF	502	GDP	C6-N1	-2.38	1.34	1.37
129	V2	502	GDP	C6-N1	-2.38	1.34	1.37
129	FC	501	GDP	C6-N1	-2.38	1.34	1.37
129	Q6	502	GDP	C6-N1	-2.38	1.34	1.37
129	BS	501	GDP	C6-N1	-2.38	1.34	1.37
129	Y4	502	GDP	C6-N1	-2.38	1.34	1.37
129	D6	501	GDP	C6-N1	-2.38	1.34	1.37
129	Dm	502	GDP	C6-N1	-2.38	1.34	1.37
129	Ef	501	GDP	C6-N1	-2.38	1.34	1.37
129	FK	501	GDP	C6-N1	-2.38	1.34	1.37
129	Ck	501	GDP	C6-N1	-2.38	1.34	1.37
129	Ah	501	GDP	C6-N1	-2.38	1.34	1.37
129	FV	502	GDP	C6-N1	-2.38	1.34	1.37
129	0Q	503	GDP	C6-N1	-2.38	1.34	1.37
129	3S	502	GDP	C6-N1	-2.38	1.34	1.37
129	1W	502	GDP	C6-N1	-2.37	1.34	1.37
129	BI	501	GDP	C6-N1	-2.37	1.34	1.37
129	I2	501	GDP	C6-N1	-2.37	1.34	1.37
129	CT	501	GDP	C6-N1	-2.37	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
129	Fv	502	GDP	C6-N1	-2.37	1.34	1.37
129	Fp	502	GDP	C6-N1	-2.37	1.34	1.37
129	Fx	502	GDP	C6-N1	-2.37	1.34	1.37
129	Ew	502	GDP	C6-N1	-2.37	1.34	1.37
129	Fc	502	GDP	C6-N1	-2.37	1.34	1.37
129	K0	502	GDP	C6-N1	-2.37	1.34	1.37
129	BU	502	GDP	C6-N1	-2.37	1.34	1.37
129	Ce	501	GDP	C6-N1	-2.37	1.34	1.37
129	DM	502	GDP	C6-N1	-2.37	1.34	1.37
129	Fg	502	GDP	C6-N1	-2.37	1.34	1.37
129	BB	502	GDP	C6-N1	-2.37	1.34	1.37
129	Eu	502	GDP	C6-N1	-2.37	1.34	1.37
129	Bf	501	GDP	C6-N1	-2.37	1.34	1.37
129	Jj	502	GDP	C6-N1	-2.36	1.34	1.37
129	KU	502	GDP	C6-N1	-2.36	1.34	1.37
129	G8	501	GDP	C6-N1	-2.36	1.34	1.37
129	Au	501	GDP	C6-N1	-2.36	1.34	1.37
129	Bu	502	GDP	C6-N1	-2.36	1.34	1.37
129	L6	502	GDP	C6-N1	-2.36	1.34	1.37
128	Z0	501	GTP	PB-O3B	2.36	1.62	1.59
129	FT	503	GDP	C6-N1	-2.36	1.34	1.37
129	CV	501	GDP	C6-N1	-2.36	1.34	1.37
129	T4	502	GDP	C6-N1	-2.36	1.34	1.37
129	Dz	502	GDP	C6-N1	-2.35	1.34	1.37
129	Fe	502	GDP	C6-N1	-2.35	1.34	1.37
129	T8	502	GDP	C6-N1	-2.35	1.34	1.37
129	IY	501	GDP	C6-N1	-2.35	1.34	1.37
129	KW	502	GDP	C6-N1	-2.35	1.34	1.37
129	O8	502	GDP	C6-N1	-2.35	1.34	1.37
129	V4	501	GDP	C6-N1	-2.35	1.34	1.37
129	Ct	502	GDP	C6-N1	-2.35	1.34	1.37
129	X0	502	GDP	C6-N1	-2.35	1.34	1.37
129	Bn	501	GDP	C6-N1	-2.35	1.34	1.37
129	1E	501	GDP	C6-N1	-2.35	1.34	1.37
129	Dr	502	GDP	C6-N1	-2.35	1.34	1.37
129	By	503	GDP	C6-N1	-2.35	1.34	1.37
129	Dt	502	GDP	C6-N1	-2.35	1.34	1.37
129	0S	501	GDP	C6-N1	-2.34	1.34	1.37
129	C0	502	GDP	C6-N1	-2.34	1.34	1.37
129	EW	501	GDP	C6-N1	-2.34	1.34	1.37
129	Es	502	GDP	C6-N1	-2.34	1.34	1.37
129	GJ	501	GDP	C6-N1	-2.34	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
129	ED	502	GDP	C6-N1	-2.34	1.34	1.37
129	I4	503	GDP	C6-N1	-2.34	1.34	1.37
129	Ay	503	GDP	C6-N1	-2.34	1.34	1.37
129	N6	502	GDP	C6-N1	-2.34	1.34	1.37
129	Dv	501	GDP	C6-N1	-2.34	1.34	1.37
129	3I	502	GDP	C6-N1	-2.34	1.34	1.37
129	2W	502	GDP	C6-N1	-2.34	1.34	1.37
129	Fi	502	GDP	C6-N1	-2.34	1.34	1.37
129	G6	501	GDP	C6-N1	-2.34	1.34	1.37
129	2K	502	GDP	C6-N1	-2.34	1.34	1.37
129	N2	501	GDP	C6-N1	-2.34	1.34	1.37
129	EU	502	GDP	C6-N1	-2.34	1.34	1.37
129	0Y	502	GDP	C6-N1	-2.34	1.34	1.37
129	P4	503	GDP	C6-N1	-2.33	1.34	1.37
129	FP	501	GDP	C6-N1	-2.33	1.34	1.37
129	3C	502	GDP	C6-N1	-2.33	1.34	1.37
129	F2	501	GDP	C6-N1	-2.33	1.34	1.37
129	Cv	503	GDP	C6-N1	-2.33	1.34	1.37
129	H4	501	GDP	C6-N1	-2.33	1.34	1.37
129	GH	502	GDP	C6-N1	-2.33	1.34	1.37
129	JY	501	GDP	C6-N1	-2.33	1.34	1.37
129	V0	501	GDP	C6-N1	-2.33	1.34	1.37
129	E6	502	GDP	C6-N1	-2.33	1.34	1.37
129	M4	502	GDP	C6-N1	-2.33	1.34	1.37
129	C6	501	GDP	C6-N1	-2.33	1.34	1.37
129	S8	502	GDP	C6-N1	-2.32	1.34	1.37
129	N8	502	GDP	C6-N1	-2.32	1.34	1.37
129	Q8	501	GDP	C6-N1	-2.32	1.34	1.37
129	E8	502	GDP	C6-N1	-2.32	1.34	1.37
129	Jw	502	GDP	C6-N1	-2.32	1.34	1.37
129	LJ	502	GDP	C6-N1	-2.32	1.34	1.37
129	O0	502	GDP	C6-N1	-2.32	1.34	1.37
129	O6	502	GDP	C6-N1	-2.32	1.34	1.37
129	0W	501	GDP	C6-N1	-2.32	1.34	1.37
129	BK	501	GDP	C6-N1	-2.32	1.34	1.37
129	H8	503	GDP	C6-N1	-2.32	1.34	1.37
129	F8	502	GDP	C6-N1	-2.32	1.34	1.37
129	ES	501	GDP	C6-N1	-2.32	1.34	1.37
129	Bs	501	GDP	C6-N1	-2.32	1.34	1.37
129	F0	502	GDP	C6-N1	-2.32	1.34	1.37
129	Di	502	GDP	C6-N1	-2.32	1.34	1.37
129	G4	501	GDP	C6-N1	-2.31	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
129	BO	501	GDP	C6-N1	-2.31	1.34	1.37
129	2Q	502	GDP	C6-N1	-2.31	1.34	1.37
129	B1	501	GDP	C6-N1	-2.31	1.34	1.37
129	B5	502	GDP	C6-N1	-2.31	1.34	1.37
129	1K	501	GDP	C6-N1	-2.31	1.34	1.37
129	8N	501	GDP	C6-N1	-2.31	1.34	1.37
129	De	502	GDP	C6-N1	-2.31	1.34	1.37
129	J4	502	GDP	C6-N1	-2.31	1.34	1.37
129	Aj	502	GDP	C6-N1	-2.31	1.34	1.37
129	A1	502	GDP	C6-N1	-2.31	1.34	1.37
129	Iy	502	GDP	C6-N1	-2.31	1.34	1.37
129	JJ	501	GDP	C6-N1	-2.30	1.34	1.37
129	K6	502	GDP	C6-N1	-2.30	1.34	1.37
129	Z0	502	GDP	C6-N1	-2.30	1.34	1.37
129	B3	501	GDP	C6-N1	-2.30	1.34	1.37
129	NH	502	GDP	C6-N1	-2.30	1.34	1.37
129	Mg	502	GDP	C6-N1	-2.30	1.34	1.37
129	F6	501	GDP	C6-N1	-2.30	1.34	1.37
129	1C	502	GDP	C6-N1	-2.30	1.34	1.37
129	BG	502	GDP	C6-N1	-2.30	1.34	1.37
129	0A	502	GDP	C6-N1	-2.30	1.34	1.37
129	Cr	501	GDP	C6-N1	-2.30	1.34	1.37
129	Lj	501	GDP	C6-N1	-2.30	1.34	1.37
129	NJ	502	GDP	C6-N1	-2.30	1.34	1.37
129	Y0	502	GDP	C6-N1	-2.30	1.34	1.37
129	DI	501	GDP	C6-N1	-2.30	1.34	1.37
129	GF	502	GDP	C6-N1	-2.30	1.34	1.37
129	NF	502	GDP	C6-N1	-2.30	1.34	1.37
129	W8	502	GDP	C6-N1	-2.30	1.34	1.37
129	2Y	502	GDP	C6-N1	-2.30	1.34	1.37
129	S4	501	GDP	C6-N1	-2.30	1.34	1.37
129	U6	502	GDP	C6-N1	-2.30	1.34	1.37
129	C8	502	GDP	C6-N1	-2.30	1.34	1.37
129	K1	502	GDP	C6-N1	-2.30	1.34	1.37
129	0U	501	GDP	C6-N1	-2.29	1.34	1.37
129	G0	502	GDP	C6-N1	-2.29	1.34	1.37
129	KY	502	GDP	C6-N1	-2.29	1.34	1.37
129	Kh	501	GDP	C6-N1	-2.29	1.34	1.37
129	MT	502	GDP	C6-N1	-2.29	1.34	1.37
129	B8	501	GDP	C6-N1	-2.29	1.34	1.37
129	M0	502	GDP	C6-N1	-2.29	1.34	1.37
129	Jh	503	GDP	C6-N1	-2.29	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
129	LX	502	GDP	C6-N1	-2.29	1.34	1.37
129	S6	501	GDP	C6-N1	-2.29	1.34	1.37
129	0I	503	GDP	C6-N1	-2.29	1.34	1.37
129	Jl	503	GDP	C6-N1	-2.29	1.34	1.37
129	1A	502	GDP	C6-N1	-2.29	1.34	1.37
129	Eh	502	GDP	C6-N1	-2.29	1.34	1.37
129	Z4	501	GDP	C6-N1	-2.29	1.34	1.37
129	0M	502	GDP	C6-N1	-2.29	1.34	1.37
129	J0	502	GDP	C6-N1	-2.29	1.34	1.37
129	K8	501	GDP	C6-N1	-2.29	1.34	1.37
129	Kj	503	GDP	C6-N1	-2.29	1.34	1.37
129	Mi	501	GDP	C6-N1	-2.29	1.34	1.37
129	NS	502	GDP	C6-N1	-2.29	1.34	1.37
129	W4	502	GDP	C6-N1	-2.29	1.34	1.37
129	Mv	501	GDP	C6-N1	-2.29	1.34	1.37
129	Fr	502	GDP	C6-N1	-2.29	1.34	1.37
129	IM	501	GDP	C6-N1	-2.29	1.34	1.37
129	JU	503	GDP	C6-N1	-2.29	1.34	1.37
129	T2	502	GDP	C6-N1	-2.29	1.34	1.37
129	1O	501	GDP	C6-N1	-2.29	1.34	1.37
129	U8	502	GDP	C6-N1	-2.28	1.34	1.37
129	W2	502	GDP	C6-N1	-2.28	1.34	1.37
129	Y6	502	GDP	C6-N1	-2.28	1.34	1.37
129	L0	501	GDP	C6-N1	-2.28	1.34	1.37
129	0C	502	GDP	C6-N1	-2.28	1.34	1.37
129	2E	502	GDP	C6-N1	-2.28	1.34	1.37
129	Iw	502	GDP	C6-N1	-2.28	1.34	1.37
129	Z6	502	GDP	C6-N1	-2.28	1.34	1.37
128	Z6	501	GTP	PB-O3B	2.28	1.62	1.59
129	1S	502	GDP	C6-N1	-2.28	1.34	1.37
129	3G	502	GDP	C6-N1	-2.28	1.34	1.37
129	Kv	503	GDP	C6-N1	-2.28	1.34	1.37
129	E4	502	GDP	C6-N1	-2.28	1.34	1.37
129	LV	501	GDP	C6-N1	-2.28	1.34	1.37
128	O2	501	GTP	PB-O3B	2.28	1.62	1.59
129	G2	501	GDP	C6-N1	-2.28	1.34	1.37
129	Lu	502	GDP	C6-N1	-2.28	1.34	1.37
129	I8	502	GDP	C6-N1	-2.28	1.34	1.37
129	0K	502	GDP	C6-N1	-2.28	1.34	1.37
129	R6	502	GDP	C6-N1	-2.28	1.34	1.37
129	U4	502	GDP	C6-N1	-2.28	1.34	1.37
129	X2	501	GDP	C6-N1	-2.28	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
129	Jy	502	GDP	C6-N1	-2.28	1.34	1.37
128	2G	501	GTP	PB-O3B	2.28	1.62	1.59
129	Y2	501	GDP	C6-N1	-2.28	1.34	1.37
129	FX	501	GDP	C6-N1	-2.27	1.34	1.37
129	Lh	502	GDP	C6-N1	-2.27	1.34	1.37
129	Il	501	GDP	C6-N1	-2.27	1.34	1.37
129	2G	502	GDP	C6-N1	-2.27	1.34	1.37
129	E2	501	GDP	C6-N1	-2.27	1.34	1.37
129	AJ	501	GDP	C6-N1	-2.27	1.34	1.37
128	Iw	501	GTP	PB-O3B	2.27	1.61	1.59
129	NW	502	GDP	C6-N1	-2.27	1.34	1.37
129	A9	502	GDP	C6-N1	-2.27	1.34	1.37
129	2A	502	GDP	C6-N1	-2.27	1.34	1.37
129	LT	501	GDP	C6-N1	-2.27	1.34	1.37
129	MV	502	GDP	C6-N1	-2.27	1.34	1.37
129	D4	501	GDP	C6-N1	-2.27	1.34	1.37
129	Q0	501	GDP	C6-N1	-2.27	1.34	1.37
129	A7	501	GDP	C6-N1	-2.27	1.34	1.37
129	1M	501	GDP	C6-N1	-2.27	1.34	1.37
129	X8	501	GDP	C6-N1	-2.27	1.34	1.37
129	3K	502	GDP	C6-N1	-2.27	1.34	1.37
129	E1	502	GDP	C6-N1	-2.27	1.34	1.37
129	Q2	502	GDP	C6-N1	-2.26	1.34	1.37
129	T0	501	GDP	C6-N1	-2.26	1.34	1.37
128	Mg	501	GTP	PB-O3B	2.26	1.61	1.59
129	R4	502	GDP	C6-N1	-2.26	1.34	1.37
129	U2	502	GDP	C6-N1	-2.26	1.34	1.37
129	D0	501	GDP	C6-N1	-2.26	1.34	1.37
129	V8	502	GDP	C6-N1	-2.26	1.34	1.37
129	P6	503	GDP	C6-N1	-2.26	1.34	1.37
129	E0	501	GDP	C6-N1	-2.26	1.34	1.37
129	NU	502	GDP	C6-N1	-2.26	1.34	1.37
129	Nh	502	GDP	C6-N1	-2.26	1.34	1.37
129	0O	502	GDP	C6-N1	-2.26	1.34	1.37
129	3M	502	GDP	C6-N1	-2.26	1.34	1.37
129	Mt	502	GDP	C6-N1	-2.26	1.34	1.37
129	Z8	501	GDP	C6-N1	-2.26	1.34	1.37
129	J6	502	GDP	C6-N1	-2.26	1.34	1.37
129	Ej	501	GDP	C6-N1	-2.26	1.34	1.37
129	2S	502	GDP	C6-N1	-2.26	1.34	1.37
129	Kx	502	GDP	C6-N1	-2.26	1.34	1.37
129	M6	502	GDP	C6-N1	-2.26	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
129	1Q	502	GDP	C6-N1	-2.25	1.34	1.37
129	K4	502	GDP	C6-N1	-2.25	1.34	1.37
129	X6	502	GDP	C6-N1	-2.25	1.34	1.37
128	EY	501	GTP	PB-O3B	2.25	1.61	1.59
128	Jw	501	GTP	PB-O3B	2.25	1.61	1.59
129	P8	502	GDP	C6-N1	-2.25	1.34	1.37
129	Ij	501	GDP	C6-N1	-2.25	1.34	1.37
129	O2	502	GDP	C6-N1	-2.25	1.34	1.37
129	Y8	501	GDP	C6-N1	-2.25	1.34	1.37
128	KY	501	GTP	PB-O3B	2.25	1.61	1.59
129	8J	501	GDP	C6-N1	-2.25	1.34	1.37
129	Lw	501	GDP	C6-N1	-2.25	1.34	1.37
129	Nf	502	GDP	C6-N1	-2.25	1.34	1.37
128	Y0	501	GTP	C2-N3	2.25	1.38	1.33
129	8L	502	GDP	C6-N1	-2.25	1.34	1.37
129	MI	501	GDP	C6-N1	-2.25	1.34	1.37
129	M2	502	GDP	C6-N1	-2.25	1.34	1.37
128	Iw	501	GTP	C2-N3	2.25	1.38	1.33
128	NH	501	GTP	C2-N3	2.25	1.38	1.33
129	D2	501	GDP	C6-N1	-2.25	1.34	1.37
129	R0	502	GDP	C6-N1	-2.25	1.34	1.37
128	MT	501	GTP	PB-O3B	2.25	1.61	1.59
129	I0	502	GDP	C6-N1	-2.25	1.34	1.37
129	Z2	502	GDP	C6-N1	-2.25	1.34	1.37
128	S9	501	GTP	C2-N3	2.25	1.38	1.33
129	EY	502	GDP	C6-N1	-2.25	1.34	1.37
129	KH	502	GDP	C6-N1	-2.25	1.34	1.37
129	2I	502	GDP	C6-N1	-2.24	1.34	1.37
129	C4	501	GDP	C6-N1	-2.24	1.34	1.37
128	S5	501	GTP	C2-N3	2.24	1.38	1.33
129	J2	502	GDP	C6-N1	-2.24	1.34	1.37
128	8H	501	GTP	C2-N3	2.24	1.38	1.33
129	Ju	501	GDP	C6-N1	-2.24	1.34	1.37
129	MG	502	GDP	C6-N1	-2.24	1.34	1.37
128	1L	501	GTP	C2-N3	2.24	1.38	1.33
129	R2	503	GDP	C6-N1	-2.24	1.34	1.37
129	JW	503	GDP	C6-N1	-2.24	1.34	1.37
129	KL	502	GDP	C6-N1	-2.24	1.34	1.37
129	V6	501	GDP	C6-N1	-2.24	1.34	1.37
128	W2	501	GTP	C2-N3	2.24	1.38	1.33
129	KJ	501	GDP	C6-N1	-2.24	1.34	1.37
128	1S	501	GTP	C2-N3	2.24	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
129	2C	502	GDP	C6-N1	-2.24	1.34	1.37
128	2E	501	GTP	C2-N3	2.23	1.38	1.33
129	O4	503	GDP	C6-N1	-2.23	1.34	1.37
128	Jh	501	GTP	C2-N3	2.23	1.38	1.33
129	LH	502	GDP	C6-N1	-2.23	1.34	1.37
128	T2	501	GTP	C2-N3	2.23	1.38	1.33
129	8H	502	GDP	C6-N1	-2.23	1.34	1.37
129	IK	502	GDP	C6-N1	-2.23	1.34	1.37
128	H3	501	GTP	C2-N3	2.23	1.38	1.33
128	Li	501	GTP	C2-N3	2.23	1.38	1.33
128	M6	501	GTP	PB-O3B	2.23	1.61	1.59
129	2U	502	GDP	C6-N1	-2.23	1.34	1.37
128	MH	501	GTP	C2-N3	2.23	1.38	1.33
128	Z2	501	GTP	C2-N3	2.23	1.38	1.33
129	JL	501	GDP	C6-N1	-2.23	1.34	1.37
129	Nj	501	GDP	C6-N1	-2.23	1.34	1.37
128	M7	501	GTP	C2-N3	2.23	1.38	1.33
129	Ed	502	GDP	C6-N1	-2.23	1.34	1.37
129	X4	502	GDP	C6-N1	-2.23	1.34	1.37
128	1Q	501	GTP	C2-N3	2.22	1.38	1.33
128	Jy	501	GTP	C2-N3	2.22	1.38	1.33
128	0I	502	GTP	C2-N3	2.22	1.38	1.33
128	0O	501	GTP	PB-O3B	2.22	1.61	1.59
129	W0	502	GDP	C6-N1	-2.22	1.34	1.37
128	K7	501	GTP	C2-N3	2.22	1.38	1.33
128	I8	501	GTP	C2-N3	2.22	1.38	1.33
128	2U	501	GTP	C2-N3	2.22	1.38	1.33
128	E1	501	GTP	C2-N3	2.22	1.38	1.33
128	R2	502	GTP	C2-N3	2.22	1.38	1.33
128	2Y	501	GTP	C2-N3	2.22	1.38	1.33
128	IW	501	GTP	C2-N3	2.22	1.38	1.33
128	Q2	501	GTP	C2-N3	2.22	1.38	1.33
128	Nh	501	GTP	C2-N3	2.22	1.38	1.33
128	J2	501	GTP	PB-O3B	2.22	1.61	1.59
128	R6	501	GTP	C2-N3	2.22	1.38	1.33
128	Ci	501	GTP	C2-N3	2.22	1.38	1.33
128	LJ	501	GTP	C2-N3	2.22	1.38	1.33
128	V2	501	GTP	C2-N3	2.22	1.38	1.33
128	Jj	501	GTP	C2-N3	2.21	1.38	1.33
128	Kx	501	GTP	C2-N3	2.21	1.38	1.33
128	W4	501	GTP	C2-N3	2.21	1.38	1.33
128	3G	501	GTP	C2-N3	2.21	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
128	F8	501	GTP	C2-N3	2.21	1.38	1.33
129	IW	502	GDP	C6-N1	-2.21	1.34	1.37
128	2I	501	GTP	C2-N3	2.21	1.38	1.33
128	P8	501	GTP	C2-N3	2.21	1.38	1.33
128	S8	501	GTP	C2-N3	2.21	1.38	1.33
128	Y6	501	GTP	C2-N3	2.21	1.38	1.33
128	NS	501	GTP	C2-N3	2.21	1.38	1.33
128	Jl	502	GTP	C2-N3	2.21	1.38	1.33
128	8M	501	GTP	C2-N3	2.21	1.38	1.33
128	Du	501	GTP	C2-N3	2.21	1.38	1.33
128	8I	501	GTP	C2-N3	2.21	1.38	1.33
128	NF	501	GTP	C2-N3	2.21	1.38	1.33
128	U7	501	GTP	C2-N3	2.21	1.38	1.33
128	0K	501	GTP	C2-N3	2.21	1.38	1.33
128	G0	501	GTP	C2-N3	2.21	1.38	1.33
128	X4	501	GTP	C2-N3	2.21	1.38	1.33
128	C5	501	GTP	C2-N3	2.20	1.38	1.33
128	U9	501	GTP	C2-N3	2.20	1.38	1.33
128	Lh	501	GTP	C2-N3	2.20	1.38	1.33
128	1N	501	GTP	C2-N3	2.20	1.38	1.33
128	8L	501	GTP	C2-N3	2.20	1.38	1.33
128	Ik	501	GTP	C2-N3	2.20	1.38	1.33
128	U6	501	GTP	C2-N3	2.20	1.38	1.33
129	EQ	502	GDP	C6-N1	-2.20	1.34	1.37
128	AT	501	GTP	C2-N3	2.20	1.38	1.33
128	U2	501	GTP	C2-N3	2.20	1.38	1.33
128	Z3	501	GTP	C2-N3	2.20	1.38	1.33
128	Kv	501	GTP	C2-N3	2.20	1.38	1.33
128	2A	501	GTP	C2-N3	2.20	1.38	1.33
128	JW	502	GTP	C2-N3	2.20	1.38	1.33
128	G3	502	GTP	PB-O3B	2.20	1.61	1.59
128	N8	501	GTP	PB-O3B	2.20	1.61	1.59
128	F3	501	GTP	C2-N3	2.20	1.38	1.33
128	Nf	501	GTP	C2-N3	2.20	1.38	1.33
128	Z0	501	GTP	C2-N3	2.20	1.38	1.33
128	NU	501	GTP	PB-O3B	2.20	1.61	1.59
128	IK	501	GTP	C2-N3	2.20	1.38	1.33
128	I0	501	GTP	C2-N3	2.20	1.38	1.33
128	MT	501	GTP	C2-N3	2.20	1.38	1.33
128	Mu	501	GTP	C2-N3	2.20	1.38	1.33
128	V8	501	GTP	C2-N3	2.20	1.38	1.33
128	0C	501	GTP	C2-N3	2.20	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
128	LH	501	GTP	C2-N3	2.20	1.38	1.33
128	F5	501	GTP	C2-N3	2.20	1.38	1.33
128	A9	501	GTP	PB-O3B	2.20	1.61	1.59
128	Lu	501	GTP	C2-N3	2.19	1.38	1.33
128	1X	501	GTP	C2-N3	2.19	1.38	1.33
128	Kl	501	GTP	C2-N3	2.19	1.38	1.33
128	2Q	501	GTP	PA-O3A	2.19	1.61	1.59
128	0M	501	GTP	C2-N3	2.19	1.38	1.33
128	Lv	501	GTP	C2-N3	2.19	1.38	1.33
128	JX	501	GTP	C2-N3	2.19	1.38	1.33
128	B7	501	GTP	C2-N3	2.19	1.38	1.33
128	Ii	501	GTP	C2-N3	2.19	1.38	1.33
128	JU	501	GTP	C2-N3	2.19	1.38	1.33
128	M0	501	GTP	C2-N3	2.19	1.38	1.33
128	N8	501	GTP	C2-N3	2.19	1.38	1.33
128	K4	501	GTP	C2-N3	2.19	1.38	1.33
128	P6	501	GTP	C2-N3	2.19	1.38	1.33
128	2S	501	GTP	C2-N3	2.19	1.38	1.33
128	JI	502	GTP	C2-N3	2.19	1.38	1.33
128	KH	501	GTP	C2-N3	2.19	1.38	1.33
128	Kv	501	GTP	PB-O3B	2.19	1.61	1.59
128	GH	501	GTP	C2-N3	2.19	1.38	1.33
128	K6	501	GTP	C2-N3	2.19	1.38	1.33
128	1A	501	GTP	C2-N3	2.19	1.38	1.33
128	A9	501	GTP	C2-N3	2.19	1.38	1.33
128	B0	501	GTP	C2-N3	2.19	1.38	1.33
128	F1	501	GTP	C2-N3	2.19	1.38	1.33
128	EH	501	GTP	C2-N3	2.19	1.38	1.33
128	H8	501	GTP	C2-N3	2.19	1.38	1.33
128	B2	501	GTP	C2-N3	2.19	1.38	1.33
128	W5	501	GTP	C2-N3	2.19	1.38	1.33
128	X6	501	GTP	C2-N3	2.19	1.38	1.33
128	Mh	501	GTP	C2-N3	2.19	1.38	1.33
128	M4	501	GTP	C2-N3	2.19	1.38	1.33
128	3I	501	GTP	C2-N3	2.19	1.38	1.33
128	U4	501	GTP	C2-N3	2.19	1.38	1.33
128	Iy	501	GTP	C2-N3	2.19	1.38	1.33
128	3K	501	GTP	C2-N3	2.19	1.38	1.33
128	Dr	501	GTP	C2-N3	2.18	1.38	1.33
128	J2	501	GTP	C2-N3	2.18	1.38	1.33
128	O4	502	GTP	C2-N3	2.18	1.38	1.33
128	2W	501	GTP	C2-N3	2.18	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
128	H6	501	GTP	C2-N3	2.18	1.38	1.33
128	IL	501	GTP	C2-N3	2.18	1.38	1.33
128	N6	501	GTP	C2-N3	2.18	1.38	1.33
128	EV	501	GTP	C2-N3	2.18	1.38	1.33
128	KL	501	GTP	C2-N3	2.18	1.38	1.33
128	O2	501	GTP	C2-N3	2.18	1.38	1.33
128	Mg	501	GTP	C2-N3	2.18	1.38	1.33
128	IX	501	GTP	C2-N3	2.18	1.38	1.33
128	C4	502	GTP	C2-N3	2.18	1.38	1.33
128	Ce	502	GTP	C2-N3	2.18	1.38	1.33
128	Aj	501	GTP	PB-O3B	2.18	1.61	1.59
128	C8	501	GTP	C2-N3	2.18	1.38	1.33
128	Eu	501	GTP	C2-N3	2.18	1.38	1.33
128	R4	501	GTP	C2-N3	2.18	1.38	1.33
128	Z7	501	GTP	C2-N3	2.18	1.38	1.33
128	E4	501	GTP	C2-N3	2.18	1.38	1.33
128	E6	501	GTP	C2-N3	2.18	1.38	1.33
128	Az	501	GTP	C2-N3	2.18	1.38	1.33
128	LX	501	GTP	C2-N3	2.18	1.38	1.33
128	Ni	501	GTP	C2-N3	2.18	1.38	1.33
128	NU	501	GTP	C2-N3	2.18	1.38	1.33
128	J4	501	GTP	C2-N3	2.18	1.38	1.33
128	JK	501	GTP	C2-N3	2.18	1.38	1.33
128	P9	501	GTP	C2-N3	2.18	1.38	1.33
128	FI	501	GTP	C2-N3	2.18	1.38	1.33
128	GI	501	GTP	C2-N3	2.18	1.38	1.33
128	W0	501	GTP	C2-N3	2.18	1.38	1.33
128	Y1	501	GTP	C2-N3	2.18	1.38	1.33
128	Z6	501	GTP	C2-N3	2.18	1.38	1.33
128	NJ	501	GTP	C2-N3	2.17	1.38	1.33
128	NW	501	GTP	C2-N3	2.17	1.38	1.33
128	X0	501	GTP	C2-N3	2.17	1.38	1.33
128	B5	501	GTP	C2-N3	2.17	1.38	1.33
128	0R	502	GTP	C2-N3	2.17	1.38	1.33
128	K9	501	GTP	C2-N3	2.17	1.38	1.33
128	0V	501	GTP	C2-N3	2.17	1.38	1.33
128	Mt	501	GTP	C2-N3	2.17	1.38	1.33
128	El	501	GTP	PB-O3B	2.17	1.61	1.59
128	2Q	501	GTP	C2-N3	2.17	1.38	1.33
128	LU	501	GTP	C2-N3	2.17	1.38	1.33
128	MG	501	GTP	C2-N3	2.17	1.38	1.33
128	1C	501	GTP	C2-N3	2.17	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
128	J6	501	GTP	C2-N3	2.17	1.38	1.33
128	W8	501	GTP	C2-N3	2.17	1.38	1.33
128	2G	501	GTP	C2-N3	2.17	1.38	1.33
128	A4	501	GTP	C2-N3	2.17	1.38	1.33
128	O0	501	GTP	C2-N3	2.17	1.38	1.33
128	EI	501	GTP	C2-N3	2.17	1.38	1.33
128	KW	501	GTP	C2-N3	2.17	1.38	1.33
128	Ft	501	GTP	C2-N3	2.17	1.38	1.33
128	Fx	501	GTP	C2-N3	2.17	1.38	1.33
128	Jw	501	GTP	C2-N3	2.17	1.38	1.33
128	Dt	501	GTP	C2-N3	2.17	1.38	1.33
128	U6	501	GTP	PA-O3A	2.17	1.61	1.59
128	3M	501	GTP	C2-N3	2.17	1.38	1.33
128	P4	501	GTP	C2-N3	2.17	1.38	1.33
128	V3	501	GTP	C2-N3	2.17	1.38	1.33
128	M2	501	GTP	C2-N3	2.17	1.38	1.33
128	8L	501	GTP	PB-O3B	2.17	1.61	1.59
128	0F	501	GTP	C2-N3	2.17	1.38	1.33
128	Bf	502	GTP	C2-N3	2.17	1.38	1.33
128	Di	501	GTP	C2-N3	2.17	1.38	1.33
128	EU	501	GTP	C2-N3	2.16	1.38	1.33
128	Fe	501	GTP	C2-N3	2.16	1.38	1.33
128	H2	501	GTP	C2-N3	2.16	1.38	1.33
128	Kj	502	GTP	C2-N3	2.16	1.38	1.33
128	BW	501	GTP	C2-N3	2.16	1.38	1.33
128	D1	501	GTP	C2-N3	2.16	1.38	1.33
128	3P	501	GTP	C2-N3	2.16	1.38	1.33
128	M6	501	GTP	C2-N3	2.16	1.38	1.33
128	Cr	502	GTP	PB-O3B	2.16	1.61	1.59
128	C9	501	GTP	C2-N3	2.16	1.38	1.33
128	Fi	501	GTP	C2-N3	2.16	1.38	1.33
128	0Y	501	GTP	C2-N3	2.16	1.38	1.33
128	G1	501	GTP	C2-N3	2.16	1.38	1.33
128	MV	501	GTP	C2-N3	2.16	1.38	1.33
128	Eh	501	GTP	C2-N3	2.16	1.38	1.33
128	J0	501	GTP	C2-N3	2.16	1.38	1.33
128	R8	502	GTP	C2-N3	2.16	1.38	1.33
128	Y4	501	GTP	C2-N3	2.16	1.38	1.33
128	G0	501	GTP	PB-O3B	2.16	1.61	1.59
128	NS	501	GTP	PB-O3B	2.16	1.61	1.59
128	2K	501	GTP	C2-N3	2.16	1.38	1.33
128	Ag	501	GTP	C2-N3	2.16	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
128	L6	501	GTP	C2-N3	2.16	1.38	1.33
128	1G	501	GTP	C2-N3	2.16	1.38	1.33
128	C1	501	GTP	C2-N3	2.16	1.38	1.33
128	O8	501	GTP	C2-N3	2.16	1.38	1.33
128	0R	502	GTP	PB-O3B	2.16	1.61	1.59
128	M0	501	GTP	PB-O3B	2.16	1.61	1.59
128	KI	501	GTP	C2-N3	2.16	1.38	1.33
128	E8	501	GTP	PB-O3B	2.16	1.61	1.59
128	1T	501	GTP	C2-N3	2.15	1.38	1.33
128	IL	501	GTP	PB-O3A	2.15	1.61	1.59
128	M4	501	GTP	PA-O3A	2.15	1.61	1.59
128	C0	501	GTP	C2-N3	2.15	1.38	1.33
128	EF	501	GTP	C2-N3	2.15	1.38	1.33
128	Es	501	GTP	C2-N3	2.15	1.38	1.33
128	3C	501	GTP	C2-N3	2.15	1.38	1.33
128	EL	501	GTP	C2-N3	2.15	1.38	1.33
128	L2	501	GTP	C2-N3	2.15	1.38	1.33
128	An	501	GTP	C2-N3	2.15	1.38	1.33
128	At	501	GTP	C2-N3	2.15	1.38	1.33
128	E1	501	GTP	C2-N3	2.15	1.38	1.33
128	KU	501	GTP	C2-N3	2.15	1.38	1.33
128	T4	501	GTP	C2-N3	2.15	1.38	1.33
128	Ba	501	GTP	PB-O3B	2.15	1.61	1.59
128	FW	501	GTP	C2-N3	2.15	1.38	1.33
128	FV	501	GTP	PB-O3B	2.15	1.61	1.59
128	K0	501	GTP	C2-N3	2.15	1.38	1.33
128	G7	501	GTP	C2-N3	2.15	1.38	1.33
128	Fc	501	GTP	C2-N3	2.15	1.38	1.33
128	3S	501	GTP	C2-N3	2.15	1.38	1.33
128	CU	501	GTP	C2-N3	2.15	1.38	1.33
128	Ee	501	GTP	C2-N3	2.14	1.38	1.33
128	0M	501	GTP	PA-O3A	2.14	1.61	1.59
128	N1	501	GTP	C2-N3	2.14	1.38	1.33
128	R0	501	GTP	C2-N3	2.14	1.38	1.33
128	CR	502	GTP	C2-N3	2.14	1.38	1.33
128	Ew	501	GTP	C2-N3	2.14	1.38	1.33
128	ED	501	GTP	C2-N3	2.14	1.38	1.33
128	Fk	501	GTP	C2-N3	2.14	1.38	1.33
128	Av	501	GTP	C2-N3	2.14	1.38	1.33
128	Dw	501	GTP	C2-N3	2.14	1.38	1.33
128	GF	501	GTP	C2-N3	2.14	1.38	1.33
128	A2	501	GTP	C2-N3	2.14	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
128	Dz	501	GTP	C2-N3	2.14	1.38	1.33
128	Ei	501	GTP	C2-N3	2.14	1.38	1.33
128	I1	501	GTP	C2-N3	2.14	1.38	1.33
128	3O	501	GTP	C2-N3	2.14	1.38	1.33
128	BH	501	GTP	C2-N3	2.14	1.38	1.33
128	Cr	502	GTP	C2-N3	2.14	1.38	1.33
128	K9	501	GTP	PA-O3A	2.14	1.61	1.59
128	T8	501	GTP	PB-O3B	2.14	1.61	1.59
128	Cj	501	GTP	C2-N3	2.13	1.38	1.33
128	CX	501	GTP	C2-N3	2.13	1.38	1.33
128	E0	502	GTP	C2-N3	2.13	1.38	1.33
128	FG	501	GTP	C2-N3	2.13	1.38	1.33
128	Cx	501	GTP	C2-N3	2.13	1.38	1.33
128	0O	501	GTP	C2-N3	2.13	1.38	1.33
128	3A	501	GTP	C2-N3	2.13	1.38	1.33
128	Bo	501	GTP	C2-N3	2.13	1.38	1.33
128	Lh	501	GTP	PA-O3A	2.13	1.61	1.59
128	A1	501	GTP	C2-N3	2.13	1.38	1.33
128	Ba	501	GTP	C2-N3	2.13	1.38	1.33
128	MV	501	GTP	PB-O3B	2.13	1.61	1.59
128	Y4	501	GTP	PB-O3B	2.13	1.61	1.59
128	FV	501	GTP	C2-N3	2.13	1.38	1.33
128	Fr	501	GTP	C2-N3	2.13	1.38	1.33
128	Cv	502	GTP	C2-N3	2.13	1.38	1.33
128	3G	501	GTP	PA-O3A	2.13	1.61	1.59
128	T6	501	GTP	C2-N3	2.13	1.38	1.33
128	X7	501	GTP	C2-N3	2.13	1.38	1.33
128	I4	502	GTP	C2-N3	2.13	1.38	1.33
128	KY	501	GTP	C2-N3	2.12	1.38	1.33
128	2C	501	GTP	C2-N3	2.12	1.38	1.33
128	I5	501	GTP	C2-N3	2.12	1.38	1.33
128	W0	501	GTP	PB-O3B	2.12	1.61	1.59
128	CG	501	GTP	C2-N3	2.12	1.38	1.33
128	F1	501	GTP	C2-N3	2.12	1.38	1.33
128	FT	502	GTP	C2-N3	2.12	1.38	1.33
128	N0	501	GTP	C2-N3	2.12	1.38	1.33
128	CZ	501	GTP	C2-N3	2.12	1.38	1.33
128	E6	501	GTP	PB-O3B	2.12	1.61	1.59
128	Fv	501	GTP	PA-O3A	2.12	1.61	1.59
128	FE	501	GTP	C2-N3	2.12	1.38	1.33
128	GD	501	GTP	C2-N3	2.12	1.38	1.33
128	Df	501	GTP	C2-N3	2.12	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
128	CE	502	GTP	C2-N3	2.12	1.38	1.33
128	Cg	501	GTP	C2-N3	2.12	1.38	1.33
128	Cm	501	GTP	C2-N3	2.12	1.38	1.33
128	Cz	501	GTP	C2-N3	2.12	1.38	1.33
128	DR	501	GTP	C2-N3	2.12	1.38	1.33
128	Fg	501	GTP	C2-N3	2.12	1.38	1.33
128	2L	501	GTP	C2-N3	2.12	1.38	1.33
128	BU	501	GTP	C2-N3	2.12	1.38	1.33
128	0A	501	GTP	C2-N3	2.12	1.38	1.33
128	By	502	GTP	C2-N3	2.12	1.38	1.33
128	CM	502	GTP	C2-N3	2.12	1.38	1.33
128	2C	501	GTP	PA-O3A	2.12	1.61	1.59
128	F0	501	GTP	C2-N3	2.12	1.38	1.33
128	De	501	GTP	C2-N3	2.12	1.38	1.33
128	EY	501	GTP	C2-N3	2.11	1.38	1.33
128	Aj	501	GTP	C2-N3	2.11	1.38	1.33
128	CK	501	GTP	C2-N3	2.11	1.38	1.33
128	CI	501	GTP	C2-N3	2.11	1.38	1.33
128	Bl	501	GTP	C2-N3	2.11	1.38	1.33
128	0Q	502	GTP	C2-N3	2.11	1.38	1.33
128	Fv	501	GTP	C2-N3	2.11	1.38	1.33
128	J8	502	GTP	C2-N3	2.11	1.38	1.33
128	2C	501	GTP	PB-O3B	2.11	1.61	1.59
128	G3	502	GTP	PA-O3A	2.11	1.61	1.59
128	KH	501	GTP	PB-O3B	2.11	1.61	1.59
128	T8	501	GTP	C2-N3	2.11	1.38	1.33
128	Bh	501	GTP	C2-N3	2.11	1.38	1.33
128	Dk	501	GTP	C2-N3	2.11	1.38	1.33
128	Nf	501	GTP	PA-O3A	2.10	1.61	1.59
128	X7	501	GTP	PB-O3B	2.10	1.61	1.59
128	CS	501	GTP	C2-N3	2.10	1.38	1.33
128	D7	501	GTP	C2-N3	2.10	1.38	1.33
128	1W	501	GTP	C2-N3	2.10	1.38	1.33
128	BB	501	GTP	C2-N3	2.10	1.38	1.33
128	D3	501	GTP	C2-N3	2.10	1.38	1.33
128	Q6	501	GTP	C2-N3	2.10	1.38	1.33
128	Fp	501	GTP	C2-N3	2.10	1.38	1.33
128	G5	501	GTP	C2-N3	2.10	1.38	1.33
128	F8	501	GTP	PB-O3B	2.10	1.61	1.59
128	1H	501	GTP	C2-N3	2.10	1.38	1.33
128	L4	501	GTP	C2-N3	2.10	1.38	1.33
128	Eq	501	GTP	C2-N3	2.10	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
128	Bb	501	GTP	C2-N3	2.09	1.38	1.33
128	BN	501	GTP	C2-N3	2.09	1.38	1.33
128	ER	501	GTP	C2-N3	2.09	1.38	1.33
128	EQ	501	GTP	C2-N3	2.09	1.38	1.33
128	Bi	501	GTP	C2-N3	2.09	1.38	1.33
128	S2	501	GTP	C2-N3	2.09	1.38	1.33
128	D5	501	GTP	C2-N3	2.09	1.38	1.33
128	Ed	501	GTP	C2-N3	2.09	1.38	1.33
128	Q4	501	GTP	C2-N3	2.09	1.38	1.33
128	Nh	501	GTP	PA-O3A	2.09	1.61	1.59
128	2S	501	GTP	PB-O3B	2.09	1.61	1.59
128	FI	501	GTP	PB-O3B	2.08	1.61	1.59
128	BL	501	GTP	C2-N3	2.08	1.38	1.33
128	DE	501	GTP	C2-N3	2.08	1.38	1.33
128	GB	501	GTP	C2-N3	2.08	1.38	1.33
128	FJ	501	GTP	C2-N3	2.08	1.38	1.33
128	1A	501	GTP	PB-O3B	2.08	1.61	1.59
128	Ao	501	GTP	C2-N3	2.08	1.38	1.33
128	DG	501	GTP	C2-N3	2.08	1.38	1.33
128	U4	501	GTP	PA-O3A	2.08	1.61	1.59
128	L2	501	GTP	PB-O3B	2.08	1.61	1.59
128	2I	501	GTP	PA-O3A	2.07	1.61	1.59
128	Li	501	GTP	PA-O3A	2.07	1.61	1.59
128	2Y	501	GTP	PB-O3B	2.07	1.61	1.59
128	U7	501	GTP	PA-O3A	2.07	1.61	1.59
128	V8	501	GTP	PA-O3A	2.07	1.61	1.59
128	0Y	501	GTP	PB-O3B	2.07	1.61	1.59
128	M2	501	GTP	PB-O3B	2.07	1.61	1.59
128	BY	501	GTP	C2-N3	2.07	1.38	1.33
128	EH	501	GTP	PA-O3A	2.07	1.61	1.59
128	DT	501	GTP	C2-N3	2.07	1.38	1.33
128	Ak	501	GTP	C2-N3	2.06	1.38	1.33
128	Cz	501	GTP	PB-O3B	2.06	1.61	1.59
129	8N	501	GDP	PA-O3A	2.06	1.61	1.59
128	BG	501	GTP	C2-N3	2.06	1.38	1.33
128	3K	501	GTP	PA-O3A	2.06	1.61	1.59
128	1D	501	GTP	C2-N3	2.06	1.38	1.33
128	FQ	501	GTP	C2-N3	2.06	1.38	1.33
128	Ay	502	GTP	C2-N3	2.06	1.38	1.33
128	Bu	501	GTP	C2-N3	2.06	1.38	1.33
128	2Y	501	GTP	PA-O3A	2.06	1.61	1.59
128	JU	501	GTP	PA-O3A	2.06	1.61	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
128	DH	501	GTP	C2-N3	2.06	1.38	1.33
128	Bw	501	GTP	C2-N3	2.06	1.38	1.33
128	DM	501	GTP	C2-N3	2.06	1.38	1.33
128	DV	501	GTP	C2-N3	2.06	1.38	1.33
128	KL	501	GTP	PB-O3B	2.05	1.61	1.59
128	U7	501	GTP	PB-O3A	2.05	1.61	1.59
128	Z0	501	GTP	PA-O3A	2.05	1.61	1.59
128	K4	501	GTP	PB-O3B	2.05	1.61	1.59
128	Lu	501	GTP	PA-O3A	2.05	1.61	1.59
128	MT	501	GTP	PB-O3A	2.05	1.61	1.59
128	R0	501	GTP	PB-O3B	2.05	1.61	1.59
128	O6	501	GTP	C2-N3	2.05	1.38	1.33
128	Ct	501	GTP	C2-N3	2.05	1.38	1.33
128	S0	501	GTP	C2-N3	2.05	1.38	1.33
128	DZ	501	GTP	C2-N3	2.05	1.38	1.33
128	Bm	501	GTP	C2-N3	2.05	1.38	1.33
128	2I	501	GTP	PB-O3B	2.05	1.61	1.59
128	S8	501	GTP	PB-O3B	2.05	1.61	1.59
128	BJ	501	GTP	C2-N3	2.05	1.38	1.33
128	Dm	501	GTP	C2-N3	2.05	1.38	1.33
128	EQ	501	GTP	PB-O3B	2.04	1.61	1.59
128	Kv	501	GTP	PA-O3A	2.04	1.61	1.59
128	DK	501	GTP	C2-N3	2.04	1.38	1.33
129	0G	501	GDP	C6-N1	-2.04	1.34	1.37
128	F0	501	GTP	PA-O3A	2.04	1.61	1.59
129	0E	501	GDP	C6-N1	-2.04	1.34	1.37
128	Iy	501	GTP	PA-O3A	2.04	1.61	1.59
128	Jy	501	GTP	PA-O3A	2.04	1.61	1.59
128	Bz	501	GTP	C2-N3	2.04	1.38	1.33
128	2E	501	GTP	PB-O3B	2.04	1.61	1.59
128	H6	501	GTP	PB-O3B	2.04	1.61	1.59
128	W2	501	GTP	PA-O3A	2.04	1.61	1.59
128	3P	501	GTP	PA-O3A	2.03	1.61	1.59
128	Jh	501	GTP	PA-O3A	2.03	1.61	1.59
128	Lh	501	GTP	PB-O3A	2.03	1.61	1.59
128	B5	501	GTP	PB-O3B	2.03	1.61	1.59
128	U6	501	GTP	PB-O3B	2.03	1.61	1.59
128	0V	501	GTP	PB-O3B	2.03	1.61	1.59
128	IL	501	GTP	PA-O3A	2.03	1.61	1.59
129	0E	501	GDP	O4'-C1'	2.02	1.43	1.40
128	Mt	501	GTP	PA-O3A	2.02	1.61	1.59
128	LJ	501	GTP	PA-O3A	2.02	1.61	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
128	DX	501	GTP	C2-N3	2.02	1.38	1.33
128	GI	501	GTP	PA-O3A	2.02	1.61	1.59
128	Lv	501	GTP	PA-O3A	2.02	1.61	1.59
128	NW	501	GTP	PA-O3A	2.02	1.61	1.59
128	8M	501	GTP	PA-O3A	2.02	1.61	1.59
128	E4	501	GTP	PB-O3B	2.02	1.61	1.59
128	Fe	501	GTP	PB-O3B	2.02	1.61	1.59
128	J6	501	GTP	PB-O3B	2.01	1.61	1.59
128	AT	501	GTP	PA-O3A	2.01	1.61	1.59
128	Jy	501	GTP	PB-O3B	2.01	1.61	1.59
128	FG	501	GTP	PB-O3B	2.01	1.61	1.59
128	U2	501	GTP	PA-O3A	2.01	1.61	1.59
128	X6	501	GTP	PA-O3A	2.01	1.61	1.59
128	0C	501	GTP	PB-O3A	2.01	1.61	1.59
128	3M	501	GTP	PA-O3A	2.00	1.61	1.59
128	P8	501	GTP	PA-O3A	2.00	1.61	1.59
128	P9	501	GTP	PB-O3A	2.00	1.61	1.59
128	S5	501	GTP	PB-O3B	2.00	1.61	1.59
128	MH	501	GTP	PA-O3A	2.00	1.61	1.59

All (2040) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	NH	501	GTP	O2A-PA-O3A	7.13	126.54	107.27
129	0G	501	GDP	O2A-PA-O3A	5.58	122.36	107.27
128	NH	501	GTP	O5'-PA-O1A	-4.96	89.27	108.94
128	NH	501	GTP	C8-N7-C5	4.33	109.93	102.55
128	NH	501	GTP	C4'-O4'-C1'	3.89	113.49	109.92
129	0G	501	GDP	C4'-O4'-C1'	3.85	113.45	109.92
129	0G	501	GDP	O4'-C1'-N9	-3.78	103.73	108.75
128	2K	501	GTP	C8-N7-C5	3.75	108.93	102.55
128	2C	501	GTP	C8-N7-C5	3.74	108.92	102.55
128	0O	501	GTP	C8-N7-C5	3.74	108.91	102.55
128	EQ	501	GTP	C8-N7-C5	3.73	108.89	102.55
128	BN	501	GTP	C8-N7-C5	3.73	108.89	102.55
128	R8	502	GTP	C8-N7-C5	3.72	108.89	102.55
128	CM	502	GTP	C8-N7-C5	3.72	108.88	102.55
128	0C	501	GTP	C8-N7-C5	3.71	108.86	102.55
128	E6	501	GTP	C8-N7-C5	3.71	108.86	102.55
128	EI	501	GTP	C8-N7-C5	3.71	108.86	102.55
128	ER	501	GTP	C8-N7-C5	3.70	108.85	102.55
128	CR	502	GTP	C8-N7-C5	3.70	108.85	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	S2	501	GTP	C8-N7-C5	3.70	108.85	102.55
128	X7	501	GTP	C8-N7-C5	3.70	108.85	102.55
128	FV	501	GTP	C8-N7-C5	3.70	108.84	102.55
128	D3	501	GTP	C8-N7-C5	3.70	108.84	102.55
128	Fe	501	GTP	C8-N7-C5	3.69	108.84	102.55
128	X4	501	GTP	C8-N7-C5	3.69	108.84	102.55
128	CI	501	GTP	C8-N7-C5	3.69	108.84	102.55
128	KY	501	GTP	C8-N7-C5	3.69	108.84	102.55
128	1T	501	GTP	C8-N7-C5	3.69	108.83	102.55
128	EV	501	GTP	C8-N7-C5	3.69	108.83	102.55
128	Y4	501	GTP	C8-N7-C5	3.69	108.83	102.55
128	Z7	501	GTP	C8-N7-C5	3.69	108.83	102.55
128	L6	501	GTP	C8-N7-C5	3.69	108.83	102.55
128	Fp	501	GTP	C8-N7-C5	3.69	108.83	102.55
128	FE	501	GTP	C8-N7-C5	3.69	108.83	102.55
128	FW	501	GTP	C8-N7-C5	3.69	108.83	102.55
128	3A	501	GTP	C8-N7-C5	3.68	108.82	102.55
128	Kj	502	GTP	C8-N7-C5	3.68	108.82	102.55
128	P9	501	GTP	C8-N7-C5	3.68	108.82	102.55
128	O6	501	GTP	C8-N7-C5	3.68	108.82	102.55
128	X0	501	GTP	C8-N7-C5	3.68	108.81	102.55
128	DG	501	GTP	C8-N7-C5	3.68	108.81	102.55
128	C8	501	GTP	C8-N7-C5	3.68	108.81	102.55
128	BH	501	GTP	C8-N7-C5	3.68	108.81	102.55
128	DH	501	GTP	C8-N7-C5	3.68	108.81	102.55
128	Bf	502	GTP	C8-N7-C5	3.67	108.81	102.55
128	1X	501	GTP	C8-N7-C5	3.67	108.80	102.55
128	DT	501	GTP	C8-N7-C5	3.67	108.80	102.55
128	Ni	501	GTP	C8-N7-C5	3.67	108.80	102.55
128	BG	501	GTP	C8-N7-C5	3.67	108.80	102.55
128	DV	501	GTP	C8-N7-C5	3.67	108.80	102.55
128	Fx	501	GTP	C8-N7-C5	3.67	108.80	102.55
128	Y6	501	GTP	C8-N7-C5	3.67	108.80	102.55
128	3P	501	GTP	C8-N7-C5	3.67	108.80	102.55
128	C9	501	GTP	C8-N7-C5	3.67	108.80	102.55
128	CE	502	GTP	C8-N7-C5	3.67	108.80	102.55
128	Dm	501	GTP	C8-N7-C5	3.67	108.80	102.55
128	1D	501	GTP	C8-N7-C5	3.67	108.79	102.55
128	FG	501	GTP	C8-N7-C5	3.67	108.79	102.55
128	Fg	501	GTP	C8-N7-C5	3.67	108.79	102.55
128	N6	501	GTP	C8-N7-C5	3.67	108.79	102.55
128	BL	501	GTP	C8-N7-C5	3.67	108.79	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	DX	501	GTP	C8-N7-C5	3.66	108.79	102.55
128	DZ	501	GTP	C8-N7-C5	3.66	108.79	102.55
128	Eu	501	GTP	C8-N7-C5	3.66	108.79	102.55
128	Y1	501	GTP	C8-N7-C5	3.66	108.79	102.55
128	3M	501	GTP	C8-N7-C5	3.66	108.78	102.55
128	BJ	501	GTP	C8-N7-C5	3.66	108.78	102.55
128	Q4	501	GTP	C8-N7-C5	3.66	108.78	102.55
128	Bi	501	GTP	C8-N7-C5	3.66	108.78	102.55
128	3O	501	GTP	C8-N7-C5	3.66	108.78	102.55
128	3S	501	GTP	C8-N7-C5	3.66	108.78	102.55
128	MV	501	GTP	C8-N7-C5	3.66	108.78	102.55
128	Mu	501	GTP	C8-N7-C5	3.66	108.78	102.55
128	D5	501	GTP	C8-N7-C5	3.66	108.78	102.55
128	P6	501	GTP	C8-N7-C5	3.66	108.78	102.55
128	J4	501	GTP	C8-N7-C5	3.66	108.77	102.55
128	H3	501	GTP	C8-N7-C5	3.66	108.77	102.55
128	I1	501	GTP	C8-N7-C5	3.65	108.77	102.55
128	O0	501	GTP	C8-N7-C5	3.65	108.77	102.55
128	Kv	501	GTP	C8-N7-C5	3.65	108.77	102.55
128	G5	501	GTP	C8-N7-C5	3.65	108.77	102.55
128	EL	501	GTP	C8-N7-C5	3.65	108.77	102.55
128	O8	501	GTP	C8-N7-C5	3.65	108.77	102.55
128	T8	501	GTP	C8-N7-C5	3.65	108.77	102.55
128	2A	501	GTP	C8-N7-C5	3.65	108.76	102.55
128	Z0	501	GTP	C8-N7-C5	3.65	108.76	102.55
128	JK	501	GTP	C8-N7-C5	3.65	108.76	102.55
128	F1	501	GTP	C8-N7-C5	3.65	108.76	102.55
128	K1	501	GTP	C8-N7-C5	3.65	108.76	102.55
128	K9	501	GTP	C8-N7-C5	3.65	108.76	102.55
128	1H	501	GTP	C8-N7-C5	3.65	108.76	102.55
128	3C	501	GTP	C8-N7-C5	3.65	108.76	102.55
128	L2	501	GTP	C8-N7-C5	3.65	108.76	102.55
128	T6	501	GTP	C8-N7-C5	3.65	108.76	102.55
128	3K	501	GTP	C8-N7-C5	3.65	108.76	102.55
128	M0	501	GTP	C8-N7-C5	3.65	108.76	102.55
128	S5	501	GTP	C8-N7-C5	3.65	108.76	102.55
128	E0	502	GTP	C8-N7-C5	3.65	108.75	102.55
128	G7	501	GTP	C8-N7-C5	3.65	108.75	102.55
128	JX	501	GTP	C8-N7-C5	3.65	108.75	102.55
128	D7	501	GTP	C8-N7-C5	3.64	108.75	102.55
128	Q2	501	GTP	C8-N7-C5	3.64	108.75	102.55
128	CS	501	GTP	C8-N7-C5	3.64	108.75	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	JU	501	GTP	C8-N7-C5	3.64	108.75	102.55
128	P8	501	GTP	C8-N7-C5	3.64	108.75	102.55
128	T4	501	GTP	C8-N7-C5	3.64	108.75	102.55
128	0I	502	GTP	C8-N7-C5	3.64	108.75	102.55
128	0M	501	GTP	C8-N7-C5	3.64	108.75	102.55
128	Cx	501	GTP	C8-N7-C5	3.64	108.75	102.55
128	DE	501	GTP	C8-N7-C5	3.64	108.75	102.55
128	R2	502	GTP	C8-N7-C5	3.64	108.75	102.55
128	0F	501	GTP	C8-N7-C5	3.64	108.75	102.55
128	1G	501	GTP	C8-N7-C5	3.64	108.75	102.55
128	S9	501	GTP	C8-N7-C5	3.64	108.75	102.55
128	BU	501	GTP	C8-N7-C5	3.64	108.74	102.55
128	C5	501	GTP	C8-N7-C5	3.64	108.74	102.55
128	Kx	501	GTP	C8-N7-C5	3.64	108.74	102.55
128	3I	501	GTP	C8-N7-C5	3.64	108.74	102.55
128	NW	501	GTP	C8-N7-C5	3.64	108.74	102.55
128	H8	501	GTP	C8-N7-C5	3.64	108.74	102.55
128	Cj	501	GTP	C8-N7-C5	3.64	108.74	102.55
128	Dw	501	GTP	C8-N7-C5	3.64	108.74	102.55
128	G1	501	GTP	C8-N7-C5	3.64	108.74	102.55
128	Bo	501	GTP	C8-N7-C5	3.63	108.74	102.55
128	D1	501	GTP	C8-N7-C5	3.63	108.74	102.55
128	1S	501	GTP	C8-N7-C5	3.63	108.74	102.55
128	CK	501	GTP	C8-N7-C5	3.63	108.73	102.55
128	Dk	501	GTP	C8-N7-C5	3.63	108.73	102.55
128	C4	502	GTP	C8-N7-C5	3.63	108.73	102.55
128	EF	501	GTP	C8-N7-C5	3.63	108.73	102.55
128	Fv	501	GTP	C8-N7-C5	3.63	108.73	102.55
128	I4	502	GTP	C8-N7-C5	3.63	108.73	102.55
128	M4	501	GTP	C8-N7-C5	3.63	108.73	102.55
128	O2	501	GTP	C8-N7-C5	3.63	108.73	102.55
128	NF	501	GTP	C8-N7-C5	3.63	108.73	102.55
128	J8	502	GTP	C8-N7-C5	3.63	108.73	102.55
128	Ay	502	GTP	C8-N7-C5	3.63	108.73	102.55
128	E1	501	GTP	C8-N7-C5	3.63	108.73	102.55
128	Ft	501	GTP	C8-N7-C5	3.63	108.73	102.55
128	BY	501	GTP	C8-N7-C5	3.63	108.72	102.55
128	I5	501	GTP	C8-N7-C5	3.63	108.72	102.55
128	P4	501	GTP	C8-N7-C5	3.63	108.72	102.55
128	E4	501	GTP	C8-N7-C5	3.63	108.72	102.55
128	Ed	501	GTP	C8-N7-C5	3.63	108.72	102.55
128	F3	501	GTP	C8-N7-C5	3.63	108.72	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	JW	502	GTP	C8-N7-C5	3.63	108.72	102.55
128	Lv	501	GTP	C8-N7-C5	3.63	108.72	102.55
128	Q6	501	GTP	C8-N7-C5	3.63	108.72	102.55
128	A4	501	GTP	C8-N7-C5	3.63	108.72	102.55
128	Eq	501	GTP	C8-N7-C5	3.63	108.72	102.55
128	GF	501	GTP	C8-N7-C5	3.63	108.72	102.55
128	0Q	502	GTP	C8-N7-C5	3.63	108.72	102.55
128	Df	501	GTP	C8-N7-C5	3.63	108.72	102.55
128	Di	501	GTP	C8-N7-C5	3.63	108.72	102.55
128	2W	501	GTP	C8-N7-C5	3.62	108.72	102.55
128	Ag	501	GTP	C8-N7-C5	3.62	108.72	102.55
128	Ce	502	GTP	C8-N7-C5	3.62	108.72	102.55
128	Ci	501	GTP	C8-N7-C5	3.62	108.72	102.55
128	GH	501	GTP	C8-N7-C5	3.62	108.72	102.55
128	CZ	501	GTP	C8-N7-C5	3.62	108.72	102.55
128	DK	501	GTP	C8-N7-C5	3.62	108.72	102.55
128	Bw	501	GTP	C8-N7-C5	3.62	108.71	102.55
128	K7	501	GTP	C8-N7-C5	3.62	108.71	102.55
128	Ii	501	GTP	C8-N7-C5	3.62	108.71	102.55
128	CG	501	GTP	C8-N7-C5	3.62	108.71	102.55
128	1A	501	GTP	C8-N7-C5	3.62	108.71	102.55
128	FQ	501	GTP	C8-N7-C5	3.62	108.71	102.55
128	GI	501	GTP	C8-N7-C5	3.62	108.71	102.55
128	0Y	501	GTP	C8-N7-C5	3.62	108.70	102.55
128	8I	501	GTP	C8-N7-C5	3.62	108.70	102.55
128	A1	501	GTP	C8-N7-C5	3.62	108.70	102.55
128	Fk	501	GTP	C8-N7-C5	3.62	108.70	102.55
128	Bm	501	GTP	C8-N7-C5	3.61	108.70	102.55
128	1C	501	GTP	C8-N7-C5	3.61	108.70	102.55
128	Cg	501	GTP	C8-N7-C5	3.61	108.70	102.55
128	LJ	501	GTP	C8-N7-C5	3.61	108.70	102.55
128	GB	501	GTP	C8-N7-C5	3.61	108.70	102.55
128	Mg	501	GTP	C8-N7-C5	3.61	108.70	102.55
128	Mt	501	GTP	C8-N7-C5	3.61	108.70	102.55
128	Bh	501	GTP	C8-N7-C5	3.61	108.70	102.55
128	Bl	501	GTP	C8-N7-C5	3.61	108.70	102.55
128	Ct	501	GTP	C8-N7-C5	3.61	108.70	102.55
128	Fi	501	GTP	C8-N7-C5	3.61	108.70	102.55
128	Iy	501	GTP	C8-N7-C5	3.61	108.70	102.55
128	JI	502	GTP	C8-N7-C5	3.61	108.70	102.55
128	2Y	501	GTP	C8-N7-C5	3.61	108.70	102.55
128	MT	501	GTP	C8-N7-C5	3.61	108.70	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	Ak	501	GTP	C8-N7-C5	3.61	108.70	102.55
128	Fc	501	GTP	C8-N7-C5	3.61	108.70	102.55
128	IW	501	GTP	C8-N7-C5	3.61	108.70	102.55
128	O4	502	GTP	C8-N7-C5	3.61	108.69	102.55
128	M6	501	GTP	C8-N7-C5	3.61	108.69	102.55
128	S0	501	GTP	C8-N7-C5	3.61	108.69	102.55
128	T2	501	GTP	C8-N7-C5	3.61	108.69	102.55
128	Bz	501	GTP	C8-N7-C5	3.61	108.69	102.55
128	1N	501	GTP	C8-N7-C5	3.61	108.69	102.55
128	Ik	501	GTP	C8-N7-C5	3.61	108.69	102.55
128	K6	501	GTP	C8-N7-C5	3.61	108.69	102.55
128	2L	501	GTP	C8-N7-C5	3.61	108.69	102.55
128	2G	501	GTP	C8-N7-C5	3.60	108.69	102.55
128	GD	501	GTP	C8-N7-C5	3.60	108.69	102.55
128	Jh	501	GTP	C8-N7-C5	3.60	108.69	102.55
128	Du	501	GTP	C8-N7-C5	3.60	108.69	102.55
128	ED	501	GTP	C8-N7-C5	3.60	108.69	102.55
128	EY	501	GTP	C8-N7-C5	3.60	108.69	102.55
128	F5	501	GTP	C8-N7-C5	3.60	108.68	102.55
128	1Q	501	GTP	C8-N7-C5	3.60	108.68	102.55
128	1W	501	GTP	C8-N7-C5	3.60	108.68	102.55
128	FT	502	GTP	C8-N7-C5	3.60	108.68	102.55
128	M7	501	GTP	C8-N7-C5	3.60	108.68	102.55
128	Z6	501	GTP	C8-N7-C5	3.60	108.68	102.55
128	DM	501	GTP	C8-N7-C5	3.60	108.67	102.55
128	2U	501	GTP	C8-N7-C5	3.60	108.67	102.55
128	KU	501	GTP	C8-N7-C5	3.60	108.67	102.55
128	N1	501	GTP	C8-N7-C5	3.60	108.67	102.55
128	U7	501	GTP	C8-N7-C5	3.60	108.67	102.55
128	W8	501	GTP	C8-N7-C5	3.60	108.67	102.55
128	Cr	502	GTP	C8-N7-C5	3.60	108.67	102.55
128	G0	501	GTP	C8-N7-C5	3.60	108.67	102.55
128	Fr	501	GTP	C8-N7-C5	3.59	108.67	102.55
128	U4	501	GTP	C8-N7-C5	3.59	108.67	102.55
128	Dr	501	GTP	C8-N7-C5	3.59	108.67	102.55
128	R6	501	GTP	C8-N7-C5	3.59	108.67	102.55
128	W2	501	GTP	C8-N7-C5	3.59	108.67	102.55
128	8M	501	GTP	C8-N7-C5	3.59	108.67	102.55
128	R4	501	GTP	C8-N7-C5	3.59	108.67	102.55
128	Lh	501	GTP	C8-N7-C5	3.59	108.66	102.55
128	An	501	GTP	C8-N7-C5	3.59	108.66	102.55
128	Av	501	GTP	C8-N7-C5	3.59	108.66	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	U9	501	GTP	C8-N7-C5	3.59	108.66	102.55
128	Bu	501	GTP	C8-N7-C5	3.59	108.65	102.55
128	B2	501	GTP	C8-N7-C5	3.59	108.65	102.55
128	U6	501	GTP	C8-N7-C5	3.58	108.65	102.55
128	C1	501	GTP	C8-N7-C5	3.58	108.65	102.55
128	I0	501	GTP	C8-N7-C5	3.58	108.65	102.55
128	MH	501	GTP	C8-N7-C5	3.58	108.65	102.55
128	A2	501	GTP	C8-N7-C5	3.58	108.65	102.55
128	IL	501	GTP	C8-N7-C5	3.58	108.65	102.55
128	NS	501	GTP	C8-N7-C5	3.58	108.65	102.55
128	H6	501	GTP	C8-N7-C5	3.58	108.64	102.55
128	At	501	GTP	C8-N7-C5	3.58	108.64	102.55
128	0V	501	GTP	C8-N7-C5	3.58	108.64	102.55
128	L4	501	GTP	C8-N7-C5	3.58	108.64	102.55
128	Li	501	GTP	C8-N7-C5	3.58	108.64	102.55
128	2I	501	GTP	C8-N7-C5	3.58	108.64	102.55
128	AT	501	GTP	C8-N7-C5	3.58	108.64	102.55
128	V3	501	GTP	C8-N7-C5	3.58	108.64	102.55
128	R0	501	GTP	C8-N7-C5	3.57	108.63	102.55
128	W4	501	GTP	C8-N7-C5	3.57	108.63	102.55
128	Cm	501	GTP	C8-N7-C5	3.57	108.63	102.55
128	FJ	501	GTP	C8-N7-C5	3.57	108.63	102.55
128	G3	502	GTP	C5-C6-N1	3.57	120.89	114.07
128	By	502	GTP	C8-N7-C5	3.57	108.63	102.55
128	CU	501	GTP	C8-N7-C5	3.57	108.63	102.55
128	Aj	501	GTP	C8-N7-C5	3.57	108.62	102.55
128	0K	501	GTP	C8-N7-C5	3.57	108.62	102.55
128	F1	501	GTP	C8-N7-C5	3.57	108.62	102.55
128	Ba	501	GTP	C8-N7-C5	3.57	108.62	102.55
128	DR	501	GTP	C8-N7-C5	3.57	108.62	102.55
128	Jw	501	GTP	C8-N7-C5	3.57	108.62	102.55
128	X6	501	GTP	C8-N7-C5	3.57	108.62	102.55
128	Ao	501	GTP	C8-N7-C5	3.57	108.62	102.55
128	V2	501	GTP	C8-N7-C5	3.56	108.62	102.55
128	M2	501	GTP	C8-N7-C5	3.56	108.61	102.55
128	De	501	GTP	C8-N7-C5	3.56	108.61	102.55
128	A9	501	GTP	C8-N7-C5	3.56	108.61	102.55
128	KH	501	GTP	C8-N7-C5	3.56	108.61	102.55
128	Mh	501	GTP	C8-N7-C5	3.56	108.61	102.55
128	KW	501	GTP	C8-N7-C5	3.56	108.61	102.55
128	C0	501	GTP	C8-N7-C5	3.56	108.61	102.55
128	Jy	501	GTP	C8-N7-C5	3.56	108.61	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	N8	501	GTP	C8-N7-C5	3.56	108.61	102.55
128	2E	501	GTP	C8-N7-C5	3.56	108.61	102.55
128	Bb	501	GTP	C8-N7-C5	3.56	108.61	102.55
128	Dz	501	GTP	C8-N7-C5	3.56	108.60	102.55
128	3G	501	GTP	C8-N7-C5	3.55	108.60	102.55
128	BB	501	GTP	C8-N7-C5	3.55	108.60	102.55
128	LU	501	GTP	C8-N7-C5	3.55	108.59	102.55
128	EU	501	GTP	C8-N7-C5	3.55	108.59	102.55
128	Nf	501	GTP	C8-N7-C5	3.55	108.59	102.55
128	IK	501	GTP	C8-N7-C5	3.55	108.59	102.55
128	J6	501	GTP	C8-N7-C5	3.55	108.59	102.55
128	Ee	501	GTP	C8-N7-C5	3.55	108.58	102.55
128	Y0	501	GTP	C8-N7-C5	3.55	108.58	102.55
128	LH	501	GTP	C8-N7-C5	3.54	108.58	102.55
128	KI	501	GTP	C8-N7-C5	3.54	108.58	102.55
128	V8	501	GTP	C8-N7-C5	3.54	108.58	102.55
128	EH	501	GTP	C8-N7-C5	3.54	108.57	102.55
128	W0	501	GTP	C8-N7-C5	3.54	108.57	102.55
128	Es	501	GTP	C8-N7-C5	3.54	108.57	102.55
128	NJ	501	GTP	C8-N7-C5	3.54	108.57	102.55
128	Lu	501	GTP	C8-N7-C5	3.54	108.57	102.55
128	Nh	501	GTP	C8-N7-C5	3.54	108.57	102.55
128	F0	501	GTP	C8-N7-C5	3.53	108.57	102.55
128	Cz	501	GTP	C8-N7-C5	3.53	108.56	102.55
128	K0	501	GTP	C8-N7-C5	3.53	108.56	102.55
128	B5	501	GTP	C8-N7-C5	3.53	108.56	102.55
128	BW	501	GTP	C8-N7-C5	3.53	108.56	102.55
128	Ew	501	GTP	C8-N7-C5	3.53	108.56	102.55
128	Dt	501	GTP	C8-N7-C5	3.53	108.56	102.55
128	Cv	502	GTP	C8-N7-C5	3.53	108.56	102.55
128	LX	501	GTP	C8-N7-C5	3.53	108.56	102.55
128	NU	501	GTP	C8-N7-C5	3.53	108.56	102.55
128	W5	501	GTP	C8-N7-C5	3.53	108.56	102.55
128	Z2	501	GTP	C8-N7-C5	3.53	108.56	102.55
128	2S	501	GTP	C8-N7-C5	3.53	108.56	102.55
128	Jl	502	GTP	C8-N7-C5	3.53	108.55	102.55
128	1L	501	GTP	C8-N7-C5	3.52	108.55	102.55
128	J0	501	GTP	C8-N7-C5	3.52	108.55	102.55
128	Ei	501	GTP	C8-N7-C5	3.52	108.55	102.55
128	H2	501	GTP	C8-N7-C5	3.52	108.54	102.55
128	B7	501	GTP	C8-N7-C5	3.52	108.54	102.55
128	8L	501	GTP	C8-N7-C5	3.52	108.54	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	N0	501	GTP	C8-N7-C5	3.51	108.53	102.55
128	FI	501	GTP	C8-N7-C5	3.51	108.53	102.55
128	U2	501	GTP	C8-N7-C5	3.51	108.52	102.55
128	KL	501	GTP	C8-N7-C5	3.51	108.52	102.55
128	Jj	501	GTP	C8-N7-C5	3.50	108.51	102.55
128	I8	501	GTP	C8-N7-C5	3.50	108.50	102.55
128	IX	501	GTP	C8-N7-C5	3.50	108.50	102.55
128	Z3	501	GTP	C8-N7-C5	3.49	108.50	102.55
128	S8	501	GTP	C8-N7-C5	3.49	108.50	102.55
128	K4	501	GTP	C8-N7-C5	3.49	108.49	102.55
128	Az	501	GTP	C8-N7-C5	3.48	108.48	102.55
128	J2	501	GTP	C8-N7-C5	3.48	108.47	102.55
128	CX	501	GTP	C8-N7-C5	3.48	108.47	102.55
128	F8	501	GTP	C8-N7-C5	3.48	108.47	102.55
128	B0	501	GTP	C8-N7-C5	3.46	108.44	102.55
128	8H	501	GTP	C8-N7-C5	3.45	108.42	102.55
128	Iw	501	GTP	C8-N7-C5	3.44	108.41	102.55
128	0A	501	GTP	C8-N7-C5	3.44	108.41	102.55
128	0R	502	GTP	C8-N7-C5	3.44	108.40	102.55
128	El	501	GTP	C8-N7-C5	3.42	108.37	102.55
128	2Q	501	GTP	C8-N7-C5	3.41	108.36	102.55
129	0G	501	GDP	O3A-PA-O1A	-3.40	100.48	110.70
128	Eh	501	GTP	C8-N7-C5	3.37	108.28	102.55
128	NH	501	GTP	O2A-PA-O1A	-3.33	96.97	112.44
128	MG	501	GTP	C8-N7-C5	3.32	108.21	102.55
128	G3	502	GTP	C8-N7-C5	3.30	108.17	102.55
128	Z3	501	GTP	C5-C6-N1	3.13	120.05	114.07
128	GF	501	GTP	C5-C6-N1	3.12	120.03	114.07
128	At	501	GTP	C5-C6-N1	3.11	120.00	114.07
128	Ak	501	GTP	C2-N1-C6	-3.10	119.43	125.11
128	GD	501	GTP	C5-C6-N1	3.10	119.99	114.07
128	Bi	501	GTP	C2-N1-C6	-3.10	119.44	125.11
128	3S	501	GTP	C2-N1-C6	-3.09	119.45	125.11
128	CM	502	GTP	C5-C6-N1	3.09	119.96	114.07
128	3S	501	GTP	C5-C6-N1	3.09	119.96	114.07
128	Iw	501	GTP	C5-C6-N1	3.08	119.96	114.07
128	Bl	501	GTP	C2-N1-C6	-3.08	119.47	125.11
128	DR	501	GTP	C2-N1-C6	-3.08	119.47	125.11
128	DR	501	GTP	C5-C6-N1	3.08	119.95	114.07
128	Cz	501	GTP	C2-N1-C6	-3.08	119.47	125.11
128	Ay	502	GTP	C5-C6-N1	3.08	119.94	114.07
128	Cz	501	GTP	C5-C6-N1	3.08	119.94	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	Dz	501	GTP	C5-C6-N1	3.08	119.94	114.07
128	Ay	502	GTP	C2-N1-C6	-3.07	119.48	125.11
128	CG	501	GTP	C5-C6-N1	3.07	119.93	114.07
128	GI	501	GTP	C2-N1-C6	-3.07	119.49	125.11
128	MG	501	GTP	C5-C6-N1	3.07	119.93	114.07
128	EI	501	GTP	C5-C6-N1	3.06	119.90	114.07
128	BY	501	GTP	C5-C6-N1	3.05	119.90	114.07
128	GD	501	GTP	C2-N1-C6	-3.05	119.52	125.11
128	F1	501	GTP	C2-N1-C6	-3.05	119.52	125.11
128	Ed	501	GTP	C5-C6-N1	3.05	119.89	114.07
128	FI	501	GTP	C5-C6-N1	3.05	119.89	114.07
128	CI	501	GTP	C5-C6-N1	3.05	119.89	114.07
128	GF	501	GTP	C2-N1-C6	-3.05	119.53	125.11
128	At	501	GTP	C2-N1-C6	-3.05	119.53	125.11
128	CM	502	GTP	C2-N1-C6	-3.05	119.53	125.11
128	2C	501	GTP	C5-C6-N1	3.04	119.88	114.07
128	Y4	501	GTP	C5-C6-N1	3.04	119.87	114.07
128	GB	501	GTP	C5-C6-N1	3.04	119.87	114.07
128	G3	502	GTP	C2-N1-C6	-3.04	119.55	125.11
128	Bi	501	GTP	C5-C6-N1	3.04	119.87	114.07
128	CG	501	GTP	C2-N1-C6	-3.04	119.55	125.11
128	Az	501	GTP	C5-C6-N1	3.04	119.86	114.07
128	0A	501	GTP	C2-N1-C6	-3.04	119.55	125.11
128	S2	501	GTP	C5-C6-N1	3.03	119.86	114.07
128	EU	501	GTP	C5-C6-N1	3.03	119.86	114.07
128	0O	501	GTP	C5-C6-N1	3.03	119.86	114.07
128	EI	501	GTP	C2-N1-C6	-3.03	119.56	125.11
128	GI	501	GTP	C5-C6-N1	3.03	119.86	114.07
128	T4	501	GTP	C2-N1-C6	-3.03	119.56	125.11
128	Ak	501	GTP	C5-C6-N1	3.03	119.85	114.07
128	GB	501	GTP	C2-N1-C6	-3.03	119.56	125.11
128	1G	501	GTP	C5-C6-N1	3.03	119.85	114.07
128	O6	501	GTP	C5-C6-N1	3.03	119.84	114.07
128	BJ	501	GTP	C5-C6-N1	3.03	119.84	114.07
128	3O	501	GTP	C5-C6-N1	3.02	119.84	114.07
128	Fr	501	GTP	C5-C6-N1	3.02	119.84	114.07
128	DG	501	GTP	C5-C6-N1	3.02	119.84	114.07
128	Dw	501	GTP	C5-C6-N1	3.02	119.84	114.07
128	Ee	501	GTP	C5-C6-N1	3.02	119.83	114.07
128	1X	501	GTP	C5-C6-N1	3.02	119.83	114.07
128	Cx	501	GTP	C5-C6-N1	3.02	119.83	114.07
128	El	501	GTP	C2-N1-C6	-3.02	119.58	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	Bm	501	GTP	C5-C6-N1	3.02	119.83	114.07
128	ED	501	GTP	C2-N1-C6	-3.02	119.58	125.11
128	Dr	501	GTP	C5-C6-N1	3.02	119.83	114.07
128	EU	501	GTP	C2-N1-C6	-3.02	119.59	125.11
128	DT	501	GTP	C5-C6-N1	3.02	119.83	114.07
128	Y6	501	GTP	C5-C6-N1	3.02	119.83	114.07
128	Df	501	GTP	C5-C6-N1	3.02	119.82	114.07
128	DK	501	GTP	C2-N1-C6	-3.01	119.59	125.11
128	Dk	501	GTP	C2-N1-C6	-3.01	119.59	125.11
128	Eh	501	GTP	C5-C6-N1	3.01	119.82	114.07
128	S2	501	GTP	C2-N1-C6	-3.01	119.59	125.11
128	BW	501	GTP	C5-C6-N1	3.01	119.82	114.07
128	Bl	501	GTP	C5-C6-N1	3.01	119.82	114.07
128	El	501	GTP	C5-C6-N1	3.01	119.82	114.07
128	0C	501	GTP	C5-C6-N1	3.01	119.81	114.07
129	Cx	502	GDP	C8-N7-C5	3.01	107.67	102.55
128	O8	501	GTP	C2-N1-C6	-3.01	119.60	125.11
129	0G	501	GDP	C2'-C3'-C4'	3.01	108.42	102.61
128	ER	501	GTP	C5-C6-N1	3.01	119.81	114.07
128	GH	501	GTP	C2-N1-C6	-3.01	119.61	125.11
128	T4	501	GTP	C5-C6-N1	3.01	119.80	114.07
128	R8	502	GTP	C2-N1-C6	-3.00	119.61	125.11
128	1H	501	GTP	C5-C6-N1	3.00	119.80	114.07
128	Cg	501	GTP	C5-C6-N1	3.00	119.80	114.07
128	BU	501	GTP	C2-N1-C6	-3.00	119.61	125.11
128	X7	501	GTP	C5-C6-N1	3.00	119.80	114.07
128	Fi	501	GTP	C2-N1-C6	-3.00	119.61	125.11
128	1D	501	GTP	C5-C6-N1	3.00	119.80	114.07
128	3C	501	GTP	C5-C6-N1	3.00	119.80	114.07
128	2L	501	GTP	C5-C6-N1	3.00	119.80	114.07
128	T6	501	GTP	C5-C6-N1	3.00	119.80	114.07
128	Du	501	GTP	C5-C6-N1	3.00	119.80	114.07
128	Iw	501	GTP	C2-N1-C6	-3.00	119.62	125.11
129	FX	501	GDP	C8-N7-C5	3.00	107.66	102.55
128	BG	501	GTP	C5-C6-N1	3.00	119.79	114.07
128	DG	501	GTP	C2-N1-C6	-3.00	119.62	125.11
128	L4	501	GTP	C2-N1-C6	-3.00	119.62	125.11
128	V2	501	GTP	C5-C6-N1	3.00	119.79	114.07
128	3O	501	GTP	C2-N1-C6	-3.00	119.62	125.11
128	FE	501	GTP	C5-C6-N1	3.00	119.79	114.07
128	Fp	501	GTP	C5-C6-N1	3.00	119.79	114.07
128	X0	501	GTP	C5-C6-N1	3.00	119.79	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	Bo	501	GTP	C2-N1-C6	-3.00	119.63	125.11
128	W8	501	GTP	C2-N1-C6	-3.00	119.63	125.11
128	GH	501	GTP	C5-C6-N1	3.00	119.79	114.07
128	EF	501	GTP	C2-N1-C6	-2.99	119.63	125.11
128	CU	501	GTP	C5-C6-N1	2.99	119.78	114.07
128	F1	501	GTP	C5-C6-N1	2.99	119.78	114.07
128	BJ	501	GTP	C2-N1-C6	-2.99	119.63	125.11
128	K0	501	GTP	C5-C6-N1	2.99	119.78	114.07
128	DH	501	GTP	C5-C6-N1	2.99	119.78	114.07
128	Dk	501	GTP	C5-C6-N1	2.99	119.78	114.07
128	Y1	501	GTP	C5-C6-N1	2.99	119.78	114.07
128	EL	501	GTP	C2-N1-C6	-2.99	119.63	125.11
128	An	501	GTP	C5-C6-N1	2.99	119.78	114.07
128	1X	501	GTP	C2-N1-C6	-2.99	119.63	125.11
128	Dr	501	GTP	C2-N1-C6	-2.99	119.63	125.11
128	T8	501	GTP	C5-C6-N1	2.99	119.78	114.07
128	2L	501	GTP	C2-N1-C6	-2.99	119.63	125.11
128	Df	501	GTP	C2-N1-C6	-2.99	119.63	125.11
128	R8	502	GTP	C5-C6-N1	2.99	119.78	114.07
128	S0	501	GTP	C5-C6-N1	2.99	119.78	114.07
128	Cx	501	GTP	C2-N1-C6	-2.99	119.64	125.11
128	BG	501	GTP	C2-N1-C6	-2.99	119.64	125.11
128	De	501	GTP	C2-N1-C6	-2.99	119.64	125.11
128	Bo	501	GTP	C5-C6-N1	2.99	119.77	114.07
128	Y6	501	GTP	C2-N1-C6	-2.99	119.64	125.11
128	Bh	501	GTP	C5-C6-N1	2.99	119.77	114.07
128	3C	501	GTP	C2-N1-C6	-2.99	119.64	125.11
128	Ba	501	GTP	C5-C6-N1	2.99	119.77	114.07
128	DK	501	GTP	C5-C6-N1	2.99	119.77	114.07
128	BW	501	GTP	C2-N1-C6	-2.99	119.64	125.11
128	3M	501	GTP	C5-C6-N1	2.99	119.77	114.07
128	BN	501	GTP	C5-C6-N1	2.99	119.77	114.07
128	IW	501	GTP	C5-C6-N1	2.99	119.77	114.07
128	BN	501	GTP	C2-N1-C6	-2.99	119.64	125.11
128	CK	501	GTP	C5-C6-N1	2.99	119.77	114.07
128	T8	501	GTP	C2-N1-C6	-2.99	119.64	125.11
128	Di	501	GTP	C5-C6-N1	2.99	119.77	114.07
128	O8	501	GTP	C5-C6-N1	2.99	119.77	114.07
128	An	501	GTP	C2-N1-C6	-2.99	119.64	125.11
128	EF	501	GTP	C5-C6-N1	2.98	119.77	114.07
128	Fx	501	GTP	C5-C6-N1	2.98	119.76	114.07
128	J8	502	GTP	C5-C6-N1	2.98	119.76	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	X0	501	GTP	C2-N1-C6	-2.98	119.65	125.11
128	DM	501	GTP	C5-C6-N1	2.98	119.76	114.07
128	Q6	501	GTP	C2-N1-C6	-2.98	119.65	125.11
128	DZ	501	GTP	C2-N1-C6	-2.98	119.65	125.11
128	Ni	501	GTP	C5-C6-N1	2.98	119.76	114.07
128	W4	501	GTP	C5-C6-N1	2.98	119.76	114.07
128	S0	501	GTP	C2-N1-C6	-2.98	119.65	125.11
128	Bu	501	GTP	C5-C6-N1	2.98	119.76	114.07
128	0O	501	GTP	C2-N1-C6	-2.98	119.66	125.11
128	D7	501	GTP	C2-N1-C6	-2.98	119.66	125.11
128	1T	501	GTP	C5-C6-N1	2.98	119.76	114.07
128	Ew	501	GTP	C5-C6-N1	2.98	119.76	114.07
128	Q6	501	GTP	C5-C6-N1	2.98	119.75	114.07
128	3P	501	GTP	C2-N1-C6	-2.98	119.66	125.11
128	CX	501	GTP	C5-C6-N1	2.98	119.75	114.07
128	U7	501	GTP	C5-C6-N1	2.98	119.75	114.07
128	Bz	501	GTP	C5-C6-N1	2.98	119.75	114.07
128	2K	501	GTP	C2-N1-C6	-2.98	119.66	125.11
128	0A	501	GTP	C5-C6-N1	2.98	119.75	114.07
128	Dm	501	GTP	C5-C6-N1	2.98	119.75	114.07
128	FG	501	GTP	C5-C6-N1	2.98	119.75	114.07
128	Dm	501	GTP	C2-N1-C6	-2.98	119.66	125.11
128	J8	502	GTP	C2-N1-C6	-2.98	119.66	125.11
128	ED	501	GTP	C5-C6-N1	2.98	119.75	114.07
128	Cj	501	GTP	C2-N1-C6	-2.98	119.66	125.11
128	Az	501	GTP	C2-N1-C6	-2.98	119.66	125.11
128	CX	501	GTP	C2-N1-C6	-2.98	119.66	125.11
128	L6	501	GTP	C5-C6-N1	2.97	119.75	114.07
128	CI	501	GTP	C2-N1-C6	-2.97	119.67	125.11
128	Aj	501	GTP	C5-C6-N1	2.97	119.75	114.07
128	Fv	501	GTP	C5-C6-N1	2.97	119.74	114.07
128	Cr	502	GTP	C5-C6-N1	2.97	119.74	114.07
128	D7	501	GTP	C5-C6-N1	2.97	119.74	114.07
128	Li	501	GTP	C5-C6-N1	2.97	119.74	114.07
128	IW	501	GTP	C2-N1-C6	-2.97	119.67	125.11
128	EL	501	GTP	C5-C6-N1	2.97	119.74	114.07
128	1G	501	GTP	C2-N1-C6	-2.97	119.67	125.11
128	2E	501	GTP	C5-C6-N1	2.97	119.74	114.07
128	Fi	501	GTP	C5-C6-N1	2.97	119.74	114.07
128	Av	501	GTP	C5-C6-N1	2.97	119.74	114.07
128	G7	501	GTP	C5-C6-N1	2.97	119.74	114.07
128	C0	501	GTP	C5-C6-N1	2.97	119.74	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	DT	501	GTP	C2-N1-C6	-2.97	119.67	125.11
128	Fk	501	GTP	C2-N1-C6	-2.97	119.67	125.11
128	T6	501	GTP	C2-N1-C6	-2.97	119.67	125.11
128	Dt	501	GTP	C5-C6-N1	2.97	119.73	114.07
128	DE	501	GTP	C2-N1-C6	-2.97	119.68	125.11
128	BL	501	GTP	C2-N1-C6	-2.97	119.68	125.11
128	Ba	501	GTP	C2-N1-C6	-2.97	119.68	125.11
128	CK	501	GTP	C2-N1-C6	-2.97	119.68	125.11
128	F1	501	GTP	C2-N1-C6	-2.97	119.68	125.11
128	FW	501	GTP	C5-C6-N1	2.97	119.73	114.07
128	3P	501	GTP	C5-C6-N1	2.97	119.73	114.07
128	Z3	501	GTP	C2-N1-C6	-2.97	119.68	125.11
128	Ei	501	GTP	C5-C6-N1	2.97	119.73	114.07
128	1H	501	GTP	C2-N1-C6	-2.97	119.68	125.11
128	Du	501	GTP	C2-N1-C6	-2.97	119.68	125.11
128	BL	501	GTP	C5-C6-N1	2.96	119.73	114.07
128	G5	501	GTP	C5-C6-N1	2.96	119.73	114.07
128	D1	501	GTP	C5-C6-N1	2.96	119.73	114.07
128	Ft	501	GTP	C5-C6-N1	2.96	119.73	114.07
128	Ft	501	GTP	C2-N1-C6	-2.96	119.68	125.11
128	Ao	501	GTP	C5-C6-N1	2.96	119.72	114.07
128	1L	501	GTP	C5-C6-N1	2.96	119.72	114.07
128	Di	501	GTP	C2-N1-C6	-2.96	119.69	125.11
128	W5	501	GTP	C2-N1-C6	-2.96	119.69	125.11
128	DE	501	GTP	C5-C6-N1	2.96	119.72	114.07
128	FW	501	GTP	C2-N1-C6	-2.96	119.69	125.11
128	Fe	501	GTP	C2-N1-C6	-2.96	119.69	125.11
128	L2	501	GTP	C5-C6-N1	2.96	119.72	114.07
128	KU	501	GTP	C2-N1-C6	-2.96	119.69	125.11
128	N1	501	GTP	C2-N1-C6	-2.96	119.69	125.11
128	0Q	502	GTP	C5-C6-N1	2.96	119.72	114.07
128	B7	501	GTP	C5-C6-N1	2.96	119.72	114.07
128	C1	501	GTP	C5-C6-N1	2.96	119.72	114.07
128	Cg	501	GTP	C2-N1-C6	-2.96	119.69	125.11
129	D6	501	GDP	C8-N7-C5	2.96	107.59	102.55
128	Bw	501	GTP	C5-C6-N1	2.96	119.72	114.07
128	Ii	501	GTP	C5-C6-N1	2.96	119.72	114.07
128	FI	501	GTP	C2-N1-C6	-2.96	119.69	125.11
128	K6	501	GTP	C5-C6-N1	2.96	119.72	114.07
128	C8	501	GTP	C5-C6-N1	2.96	119.72	114.07
128	JK	501	GTP	C5-C6-N1	2.96	119.72	114.07
128	0R	502	GTP	C5-C6-N1	2.96	119.72	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	2U	501	GTP	C5-C6-N1	2.96	119.72	114.07
128	Cj	501	GTP	C5-C6-N1	2.96	119.72	114.07
128	CZ	501	GTP	C2-N1-C6	-2.96	119.69	125.11
128	F0	501	GTP	C2-N1-C6	-2.96	119.69	125.11
128	FV	501	GTP	C5-C6-N1	2.96	119.71	114.07
128	AT	501	GTP	C2-N1-C6	-2.96	119.70	125.11
128	Ag	501	GTP	C2-N1-C6	-2.96	119.70	125.11
128	DV	501	GTP	C2-N1-C6	-2.96	119.70	125.11
128	CR	502	GTP	C5-C6-N1	2.96	119.71	114.07
128	EQ	501	GTP	C5-C6-N1	2.96	119.71	114.07
128	LU	501	GTP	C5-C6-N1	2.96	119.71	114.07
128	Ci	501	GTP	C5-C6-N1	2.96	119.71	114.07
128	Jw	501	GTP	C5-C6-N1	2.96	119.71	114.07
129	Y2	501	GDP	C8-N7-C5	2.96	107.58	102.55
128	L2	501	GTP	C2-N1-C6	-2.96	119.70	125.11
128	U2	501	GTP	C5-C6-N1	2.96	119.71	114.07
128	L6	501	GTP	C2-N1-C6	-2.96	119.70	125.11
128	C1	501	GTP	C2-N1-C6	-2.96	119.70	125.11
128	Es	501	GTP	C2-N1-C6	-2.96	119.70	125.11
128	N0	501	GTP	C5-C6-N1	2.96	119.71	114.07
128	DX	501	GTP	C5-C6-N1	2.95	119.71	114.07
128	U4	501	GTP	C5-C6-N1	2.95	119.71	114.07
128	A2	501	GTP	C5-C6-N1	2.95	119.71	114.07
128	E6	501	GTP	C5-C6-N1	2.95	119.71	114.07
128	1W	501	GTP	C5-C6-N1	2.95	119.71	114.07
128	Ct	501	GTP	C5-C6-N1	2.95	119.71	114.07
128	W2	501	GTP	C5-C6-N1	2.95	119.70	114.07
128	BH	501	GTP	C2-N1-C6	-2.95	119.70	125.11
128	D5	501	GTP	C2-N1-C6	-2.95	119.70	125.11
128	Fp	501	GTP	C2-N1-C6	-2.95	119.70	125.11
128	Bu	501	GTP	C2-N1-C6	-2.95	119.70	125.11
128	D5	501	GTP	C5-C6-N1	2.95	119.70	114.07
128	Fe	501	GTP	C5-C6-N1	2.95	119.70	114.07
128	P6	501	GTP	C5-C6-N1	2.95	119.70	114.07
128	1W	501	GTP	C2-N1-C6	-2.95	119.71	125.11
128	G7	501	GTP	C2-N1-C6	-2.95	119.71	125.11
128	V2	501	GTP	C2-N1-C6	-2.95	119.71	125.11
128	W4	501	GTP	C2-N1-C6	-2.95	119.71	125.11
129	CZ	502	GDP	C8-N7-C5	2.95	107.57	102.55
128	DV	501	GTP	C5-C6-N1	2.95	119.70	114.07
128	De	501	GTP	C5-C6-N1	2.95	119.70	114.07
128	Dz	501	GTP	C2-N1-C6	-2.95	119.71	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	D3	501	GTP	C5-C6-N1	2.95	119.70	114.07
128	DZ	501	GTP	C5-C6-N1	2.95	119.70	114.07
128	MT	501	GTP	C5-C6-N1	2.95	119.70	114.07
128	Aj	501	GTP	C2-N1-C6	-2.95	119.71	125.11
128	3K	501	GTP	C5-C6-N1	2.95	119.70	114.07
128	Bh	501	GTP	C2-N1-C6	-2.95	119.71	125.11
128	U2	501	GTP	C2-N1-C6	-2.95	119.71	125.11
128	L4	501	GTP	C5-C6-N1	2.95	119.70	114.07
128	Ao	501	GTP	C2-N1-C6	-2.95	119.71	125.11
128	CE	502	GTP	C5-C6-N1	2.95	119.70	114.07
128	Fc	501	GTP	C5-C6-N1	2.95	119.70	114.07
128	FE	501	GTP	C2-N1-C6	-2.95	119.71	125.11
128	O6	501	GTP	C2-N1-C6	-2.95	119.71	125.11
128	BU	501	GTP	C5-C6-N1	2.95	119.69	114.07
128	M2	501	GTP	C5-C6-N1	2.95	119.69	114.07
128	Eh	501	GTP	C2-N1-C6	-2.95	119.71	125.11
128	Bz	501	GTP	C2-N1-C6	-2.95	119.72	125.11
128	Cv	502	GTP	C2-N1-C6	-2.95	119.72	125.11
128	DH	501	GTP	C2-N1-C6	-2.95	119.72	125.11
128	1C	501	GTP	C5-C6-N1	2.95	119.69	114.07
128	BB	501	GTP	C5-C6-N1	2.95	119.69	114.07
128	1Q	501	GTP	C5-C6-N1	2.95	119.69	114.07
128	B0	501	GTP	C5-C6-N1	2.95	119.69	114.07
128	V3	501	GTP	C5-C6-N1	2.95	119.69	114.07
128	Fr	501	GTP	C2-N1-C6	-2.95	119.72	125.11
128	KI	501	GTP	C2-N1-C6	-2.95	119.72	125.11
128	W2	501	GTP	C2-N1-C6	-2.95	119.72	125.11
128	A4	501	GTP	C5-C6-N1	2.95	119.69	114.07
128	K7	501	GTP	C5-C6-N1	2.95	119.69	114.07
128	O2	501	GTP	C5-C6-N1	2.95	119.69	114.07
128	Cr	502	GTP	C2-N1-C6	-2.95	119.72	125.11
128	K0	501	GTP	C2-N1-C6	-2.95	119.72	125.11
128	F0	501	GTP	C5-C6-N1	2.95	119.69	114.07
128	FJ	501	GTP	C5-C6-N1	2.95	119.69	114.07
128	U9	501	GTP	C5-C6-N1	2.95	119.69	114.07
128	Z0	501	GTP	C5-C6-N1	2.95	119.69	114.07
128	EV	501	GTP	C2-N1-C6	-2.94	119.72	125.11
128	Ee	501	GTP	C2-N1-C6	-2.94	119.72	125.11
128	I5	501	GTP	C2-N1-C6	-2.94	119.72	125.11
128	MH	501	GTP	C2-N1-C6	-2.94	119.72	125.11
128	Ag	501	GTP	C5-C6-N1	2.94	119.69	114.07
128	Ce	502	GTP	C5-C6-N1	2.94	119.69	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	Z2	501	GTP	C2-N1-C6	-2.94	119.72	125.11
129	EU	502	GDP	C8-N7-C5	2.94	107.56	102.55
129	EY	502	GDP	C8-N7-C5	2.94	107.56	102.55
128	Q4	501	GTP	C5-C6-N1	2.94	119.69	114.07
128	S9	501	GTP	C5-C6-N1	2.94	119.69	114.07
128	W8	501	GTP	C5-C6-N1	2.94	119.69	114.07
128	3I	501	GTP	C5-C6-N1	2.94	119.69	114.07
128	Bf	502	GTP	C5-C6-N1	2.94	119.69	114.07
128	LJ	501	GTP	C5-C6-N1	2.94	119.69	114.07
128	Fx	501	GTP	C2-N1-C6	-2.94	119.72	125.11
128	Q4	501	GTP	C2-N1-C6	-2.94	119.72	125.11
128	Nh	501	GTP	C5-C6-N1	2.94	119.69	114.07
128	2E	501	GTP	C2-N1-C6	-2.94	119.72	125.11
128	Fg	501	GTP	C5-C6-N1	2.94	119.68	114.07
128	I1	501	GTP	C5-C6-N1	2.94	119.68	114.07
128	3A	501	GTP	C5-C6-N1	2.94	119.68	114.07
128	IX	501	GTP	C5-C6-N1	2.94	119.68	114.07
128	W5	501	GTP	C5-C6-N1	2.94	119.68	114.07
128	Av	501	GTP	C2-N1-C6	-2.94	119.72	125.11
128	0M	501	GTP	C5-C6-N1	2.94	119.68	114.07
129	3C	502	GDP	C8-N7-C5	2.94	107.56	102.55
128	EH	501	GTP	C2-N1-C6	-2.94	119.73	125.11
128	EV	501	GTP	C5-C6-N1	2.94	119.68	114.07
128	I8	501	GTP	C2-N1-C6	-2.94	119.73	125.11
129	U2	502	GDP	C8-N7-C5	2.94	107.55	102.55
128	P9	501	GTP	C5-C6-N1	2.94	119.68	114.07
128	1T	501	GTP	C2-N1-C6	-2.94	119.73	125.11
128	CU	501	GTP	C2-N1-C6	-2.94	119.73	125.11
128	C0	501	GTP	C2-N1-C6	-2.94	119.73	125.11
128	IX	501	GTP	C2-N1-C6	-2.94	119.73	125.11
128	I4	502	GTP	C5-C6-N1	2.94	119.68	114.07
128	0M	501	GTP	C2-N1-C6	-2.94	119.73	125.11
128	8L	501	GTP	C5-C6-N1	2.94	119.67	114.07
128	B2	501	GTP	C5-C6-N1	2.94	119.67	114.07
128	CS	501	GTP	C5-C6-N1	2.94	119.67	114.07
128	A1	501	GTP	C2-N1-C6	-2.94	119.73	125.11
128	Cm	501	GTP	C2-N1-C6	-2.94	119.73	125.11
128	N8	501	GTP	C5-C6-N1	2.94	119.67	114.07
128	Ci	501	GTP	C2-N1-C6	-2.94	119.73	125.11
128	S9	501	GTP	C2-N1-C6	-2.94	119.73	125.11
128	N1	501	GTP	C5-C6-N1	2.94	119.67	114.07
128	DX	501	GTP	C2-N1-C6	-2.94	119.73	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	N8	501	GTP	C2-N1-C6	-2.94	119.73	125.11
128	FT	502	GTP	C5-C6-N1	2.94	119.67	114.07
128	8L	501	GTP	C2-N1-C6	-2.94	119.74	125.11
128	N0	501	GTP	C2-N1-C6	-2.94	119.74	125.11
128	BH	501	GTP	C5-C6-N1	2.94	119.67	114.07
128	KU	501	GTP	C5-C6-N1	2.94	119.67	114.07
128	U6	501	GTP	C5-C6-N1	2.94	119.67	114.07
128	3A	501	GTP	C2-N1-C6	-2.94	119.74	125.11
129	L6	502	GDP	C8-N7-C5	2.93	107.55	102.55
128	X4	501	GTP	C5-C6-N1	2.93	119.67	114.07
128	1L	501	GTP	C2-N1-C6	-2.93	119.74	125.11
128	By	502	GTP	C2-N1-C6	-2.93	119.74	125.11
128	Mu	501	GTP	C5-C6-N1	2.93	119.67	114.07
129	D4	501	GDP	C8-N7-C5	2.93	107.55	102.55
128	NJ	501	GTP	C2-N1-C6	-2.93	119.74	125.11
128	2G	501	GTP	C5-C6-N1	2.93	119.67	114.07
128	Cm	501	GTP	C5-C6-N1	2.93	119.67	114.07
128	O0	501	GTP	C5-C6-N1	2.93	119.67	114.07
128	EY	501	GTP	C5-C6-N1	2.93	119.67	114.07
128	F1	501	GTP	C5-C6-N1	2.93	119.67	114.07
128	K9	501	GTP	C5-C6-N1	2.93	119.67	114.07
128	Z2	501	GTP	C5-C6-N1	2.93	119.67	114.07
128	BB	501	GTP	C2-N1-C6	-2.93	119.74	125.11
128	D3	501	GTP	C2-N1-C6	-2.93	119.74	125.11
128	EY	501	GTP	C2-N1-C6	-2.93	119.74	125.11
128	Z0	501	GTP	C2-N1-C6	-2.93	119.74	125.11
128	A1	501	GTP	C5-C6-N1	2.93	119.67	114.07
129	CR	501	GDP	C8-N7-C5	2.93	107.54	102.55
128	CR	502	GTP	C2-N1-C6	-2.93	119.74	125.11
128	FV	501	GTP	C2-N1-C6	-2.93	119.74	125.11
128	Li	501	GTP	C2-N1-C6	-2.93	119.74	125.11
128	KI	501	GTP	C5-C6-N1	2.93	119.67	114.07
128	Y4	501	GTP	C2-N1-C6	-2.93	119.74	125.11
128	H6	501	GTP	C5-C6-N1	2.93	119.66	114.07
128	0K	501	GTP	C2-N1-C6	-2.93	119.74	125.11
128	KW	501	GTP	C2-N1-C6	-2.93	119.74	125.11
128	3G	501	GTP	C2-N1-C6	-2.93	119.75	125.11
128	3K	501	GTP	C2-N1-C6	-2.93	119.75	125.11
128	Ei	501	GTP	C2-N1-C6	-2.93	119.75	125.11
128	J4	501	GTP	C5-C6-N1	2.93	119.66	114.07
129	L4	502	GDP	C8-N7-C5	2.93	107.54	102.55
128	FJ	501	GTP	C2-N1-C6	-2.93	119.75	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	KL	501	GTP	C2-N1-C6	-2.93	119.75	125.11
128	Bf	502	GTP	C2-N1-C6	-2.93	119.75	125.11
128	W0	501	GTP	C2-N1-C6	-2.93	119.75	125.11
128	2W	501	GTP	C5-C6-N1	2.93	119.66	114.07
128	2Y	501	GTP	C5-C6-N1	2.93	119.66	114.07
128	Mh	501	GTP	C5-C6-N1	2.93	119.66	114.07
128	3G	501	GTP	C5-C6-N1	2.93	119.66	114.07
128	JX	501	GTP	C5-C6-N1	2.93	119.66	114.07
128	MH	501	GTP	C5-C6-N1	2.93	119.66	114.07
128	S5	501	GTP	C5-C6-N1	2.93	119.66	114.07
128	Eq	501	GTP	C5-C6-N1	2.93	119.66	114.07
128	Fk	501	GTP	C5-C6-N1	2.93	119.66	114.07
128	I8	501	GTP	C5-C6-N1	2.93	119.66	114.07
128	NW	501	GTP	C5-C6-N1	2.93	119.66	114.07
128	R0	501	GTP	C5-C6-N1	2.93	119.66	114.07
128	R4	501	GTP	C5-C6-N1	2.93	119.66	114.07
128	2A	501	GTP	C5-C6-N1	2.93	119.66	114.07
128	AT	501	GTP	C5-C6-N1	2.93	119.66	114.07
128	1Q	501	GTP	C2-N1-C6	-2.93	119.75	125.11
128	A4	501	GTP	C2-N1-C6	-2.93	119.75	125.11
128	V8	501	GTP	C2-N1-C6	-2.93	119.75	125.11
129	Ce	501	GDP	C8-N7-C5	2.93	107.53	102.55
128	M6	501	GTP	C5-C6-N1	2.93	119.66	114.07
128	NU	501	GTP	C5-C6-N1	2.93	119.66	114.07
128	Fv	501	GTP	C2-N1-C6	-2.93	119.75	125.11
128	LJ	501	GTP	C2-N1-C6	-2.93	119.75	125.11
129	Fe	502	GDP	C8-N7-C5	2.93	107.53	102.55
128	N6	501	GTP	C5-C6-N1	2.93	119.66	114.07
128	Bb	501	GTP	C2-N1-C6	-2.93	119.75	125.11
128	Ce	502	GTP	C2-N1-C6	-2.93	119.75	125.11
129	Fi	502	GDP	C8-N7-C5	2.93	107.53	102.55
129	L2	502	GDP	C8-N7-C5	2.93	107.53	102.55
128	1N	501	GTP	C5-C6-N1	2.93	119.65	114.07
128	8M	501	GTP	C5-C6-N1	2.93	119.65	114.07
128	I5	501	GTP	C5-C6-N1	2.93	119.65	114.07
128	Nh	501	GTP	C2-N1-C6	-2.93	119.75	125.11
128	Jj	501	GTP	C2-N1-C6	-2.93	119.75	125.11
128	K4	501	GTP	C5-C6-N1	2.92	119.65	114.07
128	W0	501	GTP	C5-C6-N1	2.92	119.65	114.07
129	Ci	502	GDP	C8-N7-C5	2.92	107.53	102.55
128	K6	501	GTP	C2-N1-C6	-2.92	119.76	125.11
128	FQ	501	GTP	C5-C6-N1	2.92	119.65	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
129	D8	501	GDP	C8-N7-C5	2.92	107.53	102.55
128	Fc	501	GTP	C2-N1-C6	-2.92	119.76	125.11
128	A9	501	GTP	C5-C6-N1	2.92	119.65	114.07
128	KY	501	GTP	C5-C6-N1	2.92	119.65	114.07
128	2G	501	GTP	C2-N1-C6	-2.92	119.76	125.11
128	0V	501	GTP	C5-C6-N1	2.92	119.65	114.07
128	NS	501	GTP	C5-C6-N1	2.92	119.65	114.07
128	B2	501	GTP	C2-N1-C6	-2.92	119.76	125.11
128	CS	501	GTP	C2-N1-C6	-2.92	119.76	125.11
128	Jl	502	GTP	C5-C6-N1	2.92	119.65	114.07
128	Jy	501	GTP	C5-C6-N1	2.92	119.65	114.07
129	E2	501	GDP	C8-N7-C5	2.92	107.53	102.55
129	W8	502	GDP	C8-N7-C5	2.92	107.53	102.55
128	Bm	501	GTP	C2-N1-C6	-2.92	119.76	125.11
128	Y1	501	GTP	C2-N1-C6	-2.92	119.76	125.11
128	0Y	501	GTP	C5-C6-N1	2.92	119.65	114.07
128	C5	501	GTP	C5-C6-N1	2.92	119.65	114.07
128	J2	501	GTP	C5-C6-N1	2.92	119.64	114.07
128	M0	501	GTP	C5-C6-N1	2.92	119.64	114.07
128	R6	501	GTP	C5-C6-N1	2.92	119.64	114.07
128	2U	501	GTP	C2-N1-C6	-2.92	119.76	125.11
128	Dw	501	GTP	C2-N1-C6	-2.92	119.76	125.11
128	H2	501	GTP	C2-N1-C6	-2.92	119.76	125.11
128	1A	501	GTP	C5-C6-N1	2.92	119.64	114.07
128	2K	501	GTP	C5-C6-N1	2.92	119.64	114.07
128	I4	502	GTP	C2-N1-C6	-2.92	119.76	125.11
128	Jy	501	GTP	C2-N1-C6	-2.92	119.76	125.11
128	8I	501	GTP	C5-C6-N1	2.92	119.64	114.07
128	Ik	501	GTP	C5-C6-N1	2.92	119.64	114.07
128	P4	501	GTP	C5-C6-N1	2.92	119.64	114.07
128	Z6	501	GTP	C5-C6-N1	2.92	119.64	114.07
128	B7	501	GTP	C2-N1-C6	-2.92	119.76	125.11
128	H2	501	GTP	C5-C6-N1	2.92	119.64	114.07
128	Kv	501	GTP	C5-C6-N1	2.92	119.64	114.07
128	T2	501	GTP	C5-C6-N1	2.92	119.64	114.07
128	FG	501	GTP	C2-N1-C6	-2.92	119.77	125.11
128	G0	501	GTP	C2-N1-C6	-2.92	119.77	125.11
128	T2	501	GTP	C2-N1-C6	-2.92	119.77	125.11
128	V8	501	GTP	C5-C6-N1	2.92	119.64	114.07
129	H6	502	GDP	C8-N7-C5	2.92	107.52	102.55
129	IK	502	GDP	C8-N7-C5	2.92	107.52	102.55
128	U7	501	GTP	C2-N1-C6	-2.92	119.77	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
129	Z0	502	GDP	C8-N7-C5	2.92	107.52	102.55
128	8M	501	GTP	C2-N1-C6	-2.92	119.77	125.11
128	G1	501	GTP	C2-N1-C6	-2.92	119.77	125.11
128	C4	502	GTP	C5-C6-N1	2.92	119.64	114.07
128	2A	501	GTP	C2-N1-C6	-2.92	119.77	125.11
129	BK	501	GDP	C8-N7-C5	2.92	107.52	102.55
129	GJ	501	GDP	C8-N7-C5	2.92	107.52	102.55
128	H8	501	GTP	C5-C6-N1	2.92	119.64	114.07
129	1U	501	GDP	C8-N7-C5	2.92	107.51	102.55
129	Bn	501	GDP	C8-N7-C5	2.92	107.51	102.55
129	R8	503	GDP	C8-N7-C5	2.92	107.51	102.55
128	M4	501	GTP	C5-C6-N1	2.92	119.63	114.07
128	A2	501	GTP	C2-N1-C6	-2.92	119.77	125.11
129	CT	501	GDP	C8-N7-C5	2.92	107.51	102.55
129	Fk	502	GDP	C8-N7-C5	2.92	107.51	102.55
128	P8	501	GTP	C5-C6-N1	2.92	119.63	114.07
128	2Y	501	GTP	C2-N1-C6	-2.92	119.77	125.11
128	B0	501	GTP	C2-N1-C6	-2.92	119.77	125.11
128	JX	501	GTP	C2-N1-C6	-2.92	119.77	125.11
128	By	502	GTP	C5-C6-N1	2.92	119.63	114.07
128	I1	501	GTP	C2-N1-C6	-2.91	119.77	125.11
128	Z6	501	GTP	C2-N1-C6	-2.91	119.77	125.11
128	CZ	501	GTP	C5-C6-N1	2.91	119.63	114.07
128	JI	502	GTP	C5-C6-N1	2.91	119.63	114.07
128	2C	501	GTP	C2-N1-C6	-2.91	119.78	125.11
128	NU	501	GTP	C2-N1-C6	-2.91	119.78	125.11
128	S8	501	GTP	C2-N1-C6	-2.91	119.78	125.11
128	FT	502	GTP	C2-N1-C6	-2.91	119.78	125.11
128	MT	501	GTP	C2-N1-C6	-2.91	119.78	125.11
129	GD	502	GDP	C8-N7-C5	2.91	107.51	102.55
128	I0	501	GTP	C5-C6-N1	2.91	119.63	114.07
128	KW	501	GTP	C5-C6-N1	2.91	119.63	114.07
128	MG	501	GTP	C2-N1-C6	-2.91	119.78	125.11
128	S5	501	GTP	C2-N1-C6	-2.91	119.78	125.11
129	O8	502	GDP	C8-N7-C5	2.91	107.51	102.55
128	2Q	501	GTP	C2-N1-C6	-2.91	119.78	125.11
129	CM	503	GDP	C8-N7-C5	2.91	107.51	102.55
129	EQ	502	GDP	C8-N7-C5	2.91	107.51	102.55
128	H3	501	GTP	C5-C6-N1	2.91	119.63	114.07
128	KL	501	GTP	C5-C6-N1	2.91	119.63	114.07
128	MV	501	GTP	C5-C6-N1	2.91	119.63	114.07
128	Mt	501	GTP	C5-C6-N1	2.91	119.63	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	3M	501	GTP	C2-N1-C6	-2.91	119.78	125.11
128	IK	501	GTP	C2-N1-C6	-2.91	119.78	125.11
128	Y0	501	GTP	C2-N1-C6	-2.91	119.78	125.11
128	8H	501	GTP	C2-N1-C6	-2.91	119.78	125.11
128	C8	501	GTP	C2-N1-C6	-2.91	119.78	125.11
128	F8	501	GTP	C2-N1-C6	-2.91	119.78	125.11
128	K4	501	GTP	C2-N1-C6	-2.91	119.78	125.11
128	Mu	501	GTP	C2-N1-C6	-2.91	119.78	125.11
128	G0	501	GTP	C5-C6-N1	2.91	119.62	114.07
128	1C	501	GTP	C2-N1-C6	-2.91	119.78	125.11
128	I0	501	GTP	C2-N1-C6	-2.91	119.78	125.11
128	NS	501	GTP	C2-N1-C6	-2.91	119.78	125.11
129	MI	501	GDP	C8-N7-C5	2.91	107.50	102.55
128	G1	501	GTP	C5-C6-N1	2.91	119.62	114.07
128	IK	501	GTP	C5-C6-N1	2.91	119.62	114.07
129	ES	501	GDP	C8-N7-C5	2.91	107.50	102.55
128	CE	502	GTP	C2-N1-C6	-2.91	119.78	125.11
128	Dt	501	GTP	C2-N1-C6	-2.91	119.78	125.11
128	LU	501	GTP	C2-N1-C6	-2.91	119.78	125.11
128	P4	501	GTP	C2-N1-C6	-2.91	119.78	125.11
128	0I	502	GTP	C5-C6-N1	2.91	119.62	114.07
128	C9	501	GTP	C5-C6-N1	2.91	119.62	114.07
128	LX	501	GTP	C5-C6-N1	2.91	119.62	114.07
128	1D	501	GTP	C2-N1-C6	-2.91	119.78	125.11
128	U9	501	GTP	C2-N1-C6	-2.91	119.78	125.11
128	Kj	502	GTP	C5-C6-N1	2.91	119.62	114.07
129	BO	501	GDP	C8-N7-C5	2.91	107.50	102.55
129	Ba	502	GDP	C8-N7-C5	2.91	107.50	102.55
129	Y6	502	GDP	C8-N7-C5	2.91	107.50	102.55
128	ER	501	GTP	C2-N1-C6	-2.91	119.79	125.11
128	J6	501	GTP	C2-N1-C6	-2.91	119.79	125.11
128	JW	502	GTP	C5-C6-N1	2.91	119.62	114.07
129	EJ	501	GDP	C8-N7-C5	2.91	107.50	102.55
129	N6	502	GDP	C8-N7-C5	2.91	107.50	102.55
128	1S	501	GTP	C2-N1-C6	-2.91	119.79	125.11
128	Ew	501	GTP	C2-N1-C6	-2.91	119.79	125.11
128	EH	501	GTP	C5-C6-N1	2.91	119.62	114.07
129	DZ	502	GDP	C8-N7-C5	2.91	107.50	102.55
129	FG	502	GDP	C8-N7-C5	2.91	107.50	102.55
129	Kl	502	GDP	C8-N7-C5	2.91	107.50	102.55
129	MG	502	GDP	C8-N7-C5	2.91	107.50	102.55
128	D1	501	GTP	C2-N1-C6	-2.91	119.79	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	H6	501	GTP	C2-N1-C6	-2.91	119.79	125.11
128	Kl	501	GTP	C2-N1-C6	-2.91	119.79	125.11
128	Lu	501	GTP	C2-N1-C6	-2.91	119.79	125.11
128	J4	501	GTP	C2-N1-C6	-2.91	119.79	125.11
128	N6	501	GTP	C2-N1-C6	-2.91	119.79	125.11
128	Nf	501	GTP	C2-N1-C6	-2.91	119.79	125.11
128	U4	501	GTP	C2-N1-C6	-2.91	119.79	125.11
128	0K	501	GTP	C5-C6-N1	2.91	119.62	114.07
128	J2	501	GTP	C2-N1-C6	-2.91	119.79	125.11
129	N2	501	GDP	C8-N7-C5	2.91	107.50	102.55
128	0F	501	GTP	C5-C6-N1	2.91	119.61	114.07
128	1S	501	GTP	C5-C6-N1	2.91	119.61	114.07
128	li	501	GTP	C2-N1-C6	-2.91	119.79	125.11
129	FE	502	GDP	C8-N7-C5	2.91	107.50	102.55
128	J0	501	GTP	C2-N1-C6	-2.91	119.79	125.11
128	B5	501	GTP	C5-C6-N1	2.91	119.61	114.07
128	Lv	501	GTP	C5-C6-N1	2.91	119.61	114.07
128	Mg	501	GTP	C5-C6-N1	2.91	119.61	114.07
129	Cg	502	GDP	C8-N7-C5	2.90	107.50	102.55
128	1N	501	GTP	C2-N1-C6	-2.90	119.79	125.11
128	K7	501	GTP	C2-N1-C6	-2.90	119.79	125.11
128	Iy	501	GTP	C5-C6-N1	2.90	119.61	114.07
128	J6	501	GTP	C5-C6-N1	2.90	119.61	114.07
128	Ni	501	GTP	C2-N1-C6	-2.90	119.79	125.11
129	N0	502	GDP	C8-N7-C5	2.90	107.49	102.55
129	Nh	502	GDP	C8-N7-C5	2.90	107.49	102.55
128	Kx	501	GTP	C5-C6-N1	2.90	119.61	114.07
128	R2	502	GTP	C5-C6-N1	2.90	119.61	114.07
129	DV	502	GDP	C8-N7-C5	2.90	107.49	102.55
129	O0	502	GDP	C8-N7-C5	2.90	107.49	102.55
128	Es	501	GTP	C5-C6-N1	2.90	119.61	114.07
128	Y0	501	GTP	C5-C6-N1	2.90	119.61	114.07
128	Jl	502	GTP	C2-N1-C6	-2.90	119.80	125.11
128	0V	501	GTP	C2-N1-C6	-2.90	119.80	125.11
128	B5	501	GTP	C2-N1-C6	-2.90	119.80	125.11
128	JW	502	GTP	C2-N1-C6	-2.90	119.80	125.11
129	GF	502	GDP	C8-N7-C5	2.90	107.49	102.55
129	H8	503	GDP	C8-N7-C5	2.90	107.49	102.55
128	0Q	502	GTP	C2-N1-C6	-2.90	119.80	125.11
128	M4	501	GTP	C2-N1-C6	-2.90	119.80	125.11
128	O2	501	GTP	C2-N1-C6	-2.90	119.80	125.11
129	R6	502	GDP	C8-N7-C5	2.90	107.49	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	J0	501	GTP	C5-C6-N1	2.90	119.61	114.07
128	Iy	501	GTP	C2-N1-C6	-2.90	119.80	125.11
128	Kv	501	GTP	C2-N1-C6	-2.90	119.80	125.11
128	Mt	501	GTP	C2-N1-C6	-2.90	119.80	125.11
128	NW	501	GTP	C2-N1-C6	-2.90	119.80	125.11
128	M7	501	GTP	C5-C6-N1	2.90	119.60	114.07
129	D2	501	GDP	C8-N7-C5	2.90	107.49	102.55
129	EW	501	GDP	C8-N7-C5	2.90	107.49	102.55
129	Q8	501	GDP	C8-N7-C5	2.90	107.49	102.55
128	LH	501	GTP	C2-N1-C6	-2.90	119.80	125.11
128	Cv	502	GTP	C5-C6-N1	2.90	119.60	114.07
128	NJ	501	GTP	C5-C6-N1	2.90	119.60	114.07
129	CX	502	GDP	C8-N7-C5	2.90	107.49	102.55
129	Ct	502	GDP	C8-N7-C5	2.90	107.49	102.55
129	Ju	501	GDP	C8-N7-C5	2.90	107.49	102.55
128	V3	501	GTP	C2-N1-C6	-2.90	119.80	125.11
128	Jj	501	GTP	C5-C6-N1	2.90	119.60	114.07
129	BM	501	GDP	C8-N7-C5	2.90	107.48	102.55
129	CV	501	GDP	C8-N7-C5	2.90	107.48	102.55
129	Cz	502	GDP	C8-N7-C5	2.90	107.48	102.55
129	V8	502	GDP	C8-N7-C5	2.90	107.48	102.55
128	Bw	501	GTP	C2-N1-C6	-2.90	119.80	125.11
128	K9	501	GTP	C2-N1-C6	-2.90	119.80	125.11
129	KY	502	GDP	C8-N7-C5	2.90	107.48	102.55
128	A9	501	GTP	C2-N1-C6	-2.90	119.81	125.11
129	3A	502	GDP	C8-N7-C5	2.90	107.48	102.55
128	Bb	501	GTP	C5-C6-N1	2.90	119.60	114.07
128	0C	501	GTP	C2-N1-C6	-2.90	119.81	125.11
128	Jw	501	GTP	C2-N1-C6	-2.90	119.81	125.11
128	R0	501	GTP	C2-N1-C6	-2.90	119.81	125.11
128	R6	501	GTP	C2-N1-C6	-2.90	119.81	125.11
129	ED	502	GDP	C8-N7-C5	2.90	107.48	102.55
129	Kx	502	GDP	C8-N7-C5	2.90	107.48	102.55
129	M2	502	GDP	C8-N7-C5	2.90	107.48	102.55
128	S8	501	GTP	C5-C6-N1	2.90	119.60	114.07
129	G0	502	GDP	C8-N7-C5	2.90	107.48	102.55
128	P6	501	GTP	C2-N1-C6	-2.90	119.81	125.11
129	KW	502	GDP	C8-N7-C5	2.90	107.48	102.55
128	JK	501	GTP	C2-N1-C6	-2.90	119.81	125.11
128	R4	501	GTP	C2-N1-C6	-2.90	119.81	125.11
128	F8	501	GTP	C5-C6-N1	2.90	119.59	114.07
129	C8	502	GDP	C8-N7-C5	2.90	107.48	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	3I	501	GTP	C2-N1-C6	-2.89	119.81	125.11
129	F2	501	GDP	C8-N7-C5	2.89	107.48	102.55
129	K8	501	GDP	C8-N7-C5	2.89	107.48	102.55
128	2S	501	GTP	C2-N1-C6	-2.89	119.81	125.11
128	2I	501	GTP	C5-C6-N1	2.89	119.59	114.07
128	C5	501	GTP	C2-N1-C6	-2.89	119.81	125.11
128	G5	501	GTP	C2-N1-C6	-2.89	119.81	125.11
128	M2	501	GTP	C2-N1-C6	-2.89	119.81	125.11
128	X6	501	GTP	C2-N1-C6	-2.89	119.81	125.11
128	Kj	502	GTP	C2-N1-C6	-2.89	119.81	125.11
128	Lh	501	GTP	C2-N1-C6	-2.89	119.81	125.11
128	P8	501	GTP	C2-N1-C6	-2.89	119.81	125.11
128	Z7	501	GTP	C2-N1-C6	-2.89	119.81	125.11
128	E1	501	GTP	C5-C6-N1	2.89	119.59	114.07
129	2S	502	GDP	C8-N7-C5	2.89	107.47	102.55
129	3Q	501	GDP	C8-N7-C5	2.89	107.47	102.55
129	Mv	501	GDP	C8-N7-C5	2.89	107.47	102.55
128	O4	502	GTP	C2-N1-C6	-2.89	119.81	125.11
128	X6	501	GTP	C5-C6-N1	2.89	119.59	114.07
129	I0	502	GDP	C8-N7-C5	2.89	107.47	102.55
128	8I	501	GTP	C2-N1-C6	-2.89	119.82	125.11
128	Lv	501	GTP	C2-N1-C6	-2.89	119.82	125.11
129	FC	501	GDP	C8-N7-C5	2.89	107.47	102.55
129	Y4	502	GDP	C8-N7-C5	2.89	107.47	102.55
128	O0	501	GTP	C2-N1-C6	-2.89	119.82	125.11
129	Lw	501	GDP	C8-N7-C5	2.89	107.47	102.55
128	Kl	501	GTP	C5-C6-N1	2.89	119.58	114.07
128	M0	501	GTP	C2-N1-C6	-2.89	119.82	125.11
129	0K	502	GDP	C8-N7-C5	2.89	107.47	102.55
129	E8	502	GDP	C8-N7-C5	2.89	107.47	102.55
129	IW	502	GDP	C8-N7-C5	2.89	107.47	102.55
129	NJ	502	GDP	C8-N7-C5	2.89	107.47	102.55
129	X0	502	GDP	C8-N7-C5	2.89	107.47	102.55
128	E4	501	GTP	C5-C6-N1	2.89	119.58	114.07
128	KH	501	GTP	C5-C6-N1	2.89	119.58	114.07
128	2W	501	GTP	C2-N1-C6	-2.89	119.82	125.11
129	CG	502	GDP	C8-N7-C5	2.89	107.47	102.55
129	Ej	501	GDP	C8-N7-C5	2.89	107.47	102.55
129	V4	501	GDP	C8-N7-C5	2.89	107.47	102.55
128	E0	502	GTP	C2-N1-C6	-2.89	119.82	125.11
128	2S	501	GTP	C5-C6-N1	2.89	119.58	114.07
128	0I	502	GTP	C2-N1-C6	-2.89	119.82	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	0R	502	GTP	C2-N1-C6	-2.89	119.82	125.11
128	1A	501	GTP	C2-N1-C6	-2.89	119.82	125.11
129	1A	502	GDP	C8-N7-C5	2.89	107.47	102.55
129	Cv	503	GDP	C8-N7-C5	2.89	107.47	102.55
128	F3	501	GTP	C2-N1-C6	-2.89	119.82	125.11
128	Ik	501	GTP	C2-N1-C6	-2.89	119.82	125.11
129	Q4	502	GDP	C8-N7-C5	2.89	107.47	102.55
128	0F	501	GTP	C2-N1-C6	-2.89	119.82	125.11
128	FQ	501	GTP	C2-N1-C6	-2.89	119.83	125.11
129	BG	502	GDP	C8-N7-C5	2.89	107.46	102.55
129	B1	501	GDP	C8-N7-C5	2.89	107.46	102.55
129	Dv	501	GDP	C8-N7-C5	2.89	107.46	102.55
129	NW	502	GDP	C8-N7-C5	2.89	107.46	102.55
128	Jh	501	GTP	C5-C6-N1	2.89	119.58	114.07
128	Z7	501	GTP	C5-C6-N1	2.89	119.58	114.07
129	KH	502	GDP	C8-N7-C5	2.89	107.46	102.55
128	Jh	501	GTP	C2-N1-C6	-2.89	119.83	125.11
128	Lh	501	GTP	C5-C6-N1	2.89	119.58	114.07
129	Fg	502	GDP	C8-N7-C5	2.89	107.46	102.55
128	E1	501	GTP	C2-N1-C6	-2.88	119.83	125.11
128	M7	501	GTP	C2-N1-C6	-2.88	119.83	125.11
128	Q2	501	GTP	C5-C6-N1	2.88	119.57	114.07
129	T0	501	GDP	C8-N7-C5	2.88	107.46	102.55
128	Mh	501	GTP	C2-N1-C6	-2.88	119.83	125.11
128	Eu	501	GTP	C5-C6-N1	2.88	119.57	114.07
128	DM	501	GTP	C2-N1-C6	-2.88	119.83	125.11
128	U6	501	GTP	C2-N1-C6	-2.88	119.83	125.11
128	Nf	501	GTP	C5-C6-N1	2.88	119.57	114.07
129	1K	501	GDP	C8-N7-C5	2.88	107.46	102.55
128	IL	501	GTP	C2-N1-C6	-2.88	119.83	125.11
128	LX	501	GTP	C2-N1-C6	-2.88	119.83	125.11
128	Q2	501	GTP	C2-N1-C6	-2.88	119.83	125.11
128	Fg	501	GTP	C2-N1-C6	-2.88	119.83	125.11
129	1Q	502	GDP	C8-N7-C5	2.88	107.46	102.55
129	Fp	502	GDP	C8-N7-C5	2.88	107.46	102.55
129	M8	501	GDP	C8-N7-C5	2.88	107.46	102.55
129	Y8	501	GDP	C8-N7-C5	2.88	107.46	102.55
128	MV	501	GTP	C2-N1-C6	-2.88	119.83	125.11
129	0C	502	GDP	C8-N7-C5	2.88	107.45	102.55
129	N8	502	GDP	C8-N7-C5	2.88	107.45	102.55
129	A7	501	GDP	C8-N7-C5	2.88	107.45	102.55
129	Fx	502	GDP	C8-N7-C5	2.88	107.45	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
129	M6	502	GDP	C8-N7-C5	2.88	107.45	102.55
129	V6	501	GDP	C8-N7-C5	2.88	107.45	102.55
129	X6	502	GDP	C8-N7-C5	2.88	107.45	102.55
128	IL	501	GTP	C5-C6-N1	2.88	119.57	114.07
128	JU	501	GTP	C5-C6-N1	2.88	119.57	114.07
129	A5	501	GDP	C8-N7-C5	2.88	107.45	102.55
129	EL	502	GDP	C8-N7-C5	2.88	107.45	102.55
129	Il	501	GDP	C8-N7-C5	2.88	107.45	102.55
129	JL	501	GDP	C8-N7-C5	2.88	107.45	102.55
128	E4	501	GTP	C2-N1-C6	-2.88	119.84	125.11
128	KH	501	GTP	C2-N1-C6	-2.88	119.84	125.11
129	3I	502	GDP	C8-N7-C5	2.88	107.45	102.55
129	C4	501	GDP	C8-N7-C5	2.88	107.45	102.55
129	Dz	502	GDP	C8-N7-C5	2.88	107.45	102.55
128	0Y	501	GTP	C2-N1-C6	-2.88	119.84	125.11
128	P9	501	GTP	C2-N1-C6	-2.88	119.84	125.11
129	Lu	502	GDP	C8-N7-C5	2.88	107.45	102.55
128	F5	501	GTP	C5-C6-N1	2.88	119.56	114.07
129	D0	501	GDP	C8-N7-C5	2.88	107.45	102.55
129	Lj	501	GDP	C8-N7-C5	2.88	107.45	102.55
129	X8	501	GDP	C8-N7-C5	2.88	107.45	102.55
128	Kx	501	GTP	C2-N1-C6	-2.88	119.84	125.11
129	E4	502	GDP	C8-N7-C5	2.88	107.45	102.55
128	8H	501	GTP	C5-C6-N1	2.88	119.56	114.07
128	JI	502	GTP	C2-N1-C6	-2.88	119.84	125.11
128	LH	501	GTP	C5-C6-N1	2.88	119.56	114.07
129	8J	501	GDP	C8-N7-C5	2.88	107.44	102.55
129	Fr	502	GDP	C8-N7-C5	2.88	107.44	102.55
129	Q2	502	GDP	C8-N7-C5	2.88	107.44	102.55
129	Q6	502	GDP	C8-N7-C5	2.88	107.44	102.55
128	JU	501	GTP	C2-N1-C6	-2.88	119.85	125.11
128	M6	501	GTP	C2-N1-C6	-2.88	119.85	125.11
129	2E	502	GDP	C8-N7-C5	2.88	107.44	102.55
129	F6	501	GDP	C8-N7-C5	2.88	107.44	102.55
129	3G	502	GDP	C8-N7-C5	2.87	107.44	102.55
129	J8	503	GDP	C8-N7-C5	2.87	107.44	102.55
129	Jl	503	GDP	C8-N7-C5	2.87	107.44	102.55
129	P6	503	GDP	C8-N7-C5	2.87	107.44	102.55
128	O4	502	GTP	C5-C6-N1	2.87	119.55	114.07
129	An	502	GDP	C8-N7-C5	2.87	107.44	102.55
128	F5	501	GTP	C2-N1-C6	-2.87	119.85	125.11
128	C4	502	GTP	C2-N1-C6	-2.87	119.85	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	H8	501	GTP	C2-N1-C6	-2.87	119.85	125.11
129	1M	501	GDP	C8-N7-C5	2.87	107.44	102.55
129	Jy	502	GDP	C8-N7-C5	2.87	107.44	102.55
129	Mt	502	GDP	C8-N7-C5	2.87	107.44	102.55
129	2C	502	GDP	C8-N7-C5	2.87	107.44	102.55
129	G4	501	GDP	C8-N7-C5	2.87	107.44	102.55
129	8N	501	GDP	C8-N7-C5	2.87	107.44	102.55
129	BI	501	GDP	C8-N7-C5	2.87	107.44	102.55
129	Ij	501	GDP	C8-N7-C5	2.87	107.44	102.55
128	2I	501	GTP	C2-N1-C6	-2.87	119.86	125.11
129	C6	501	GDP	C8-N7-C5	2.87	107.44	102.55
129	Dg	501	GDP	C8-N7-C5	2.87	107.44	102.55
129	IM	501	GDP	C8-N7-C5	2.87	107.44	102.55
129	FR	501	GDP	C8-N7-C5	2.87	107.44	102.55
128	R2	502	GTP	C2-N1-C6	-2.87	119.86	125.11
129	DX	502	GDP	C8-N7-C5	2.87	107.43	102.55
129	S0	502	GDP	C8-N7-C5	2.87	107.43	102.55
129	2W	502	GDP	C8-N7-C5	2.87	107.43	102.55
129	Cm	502	GDP	C8-N7-C5	2.87	107.43	102.55
129	Dr	502	GDP	C8-N7-C5	2.87	107.43	102.55
129	KU	502	GDP	C8-N7-C5	2.87	107.43	102.55
129	Eh	502	GDP	C8-N7-C5	2.87	107.43	102.55
128	Ed	501	GTP	C2-N1-C6	-2.87	119.86	125.11
129	P8	502	GDP	C8-N7-C5	2.87	107.43	102.55
128	H3	501	GTP	C2-N1-C6	-2.87	119.86	125.11
129	Fv	502	GDP	C8-N7-C5	2.87	107.43	102.55
129	L0	501	GDP	C8-N7-C5	2.87	107.43	102.55
129	V0	501	GDP	C8-N7-C5	2.87	107.43	102.55
129	B5	502	GDP	C8-N7-C5	2.87	107.43	102.55
129	G8	501	GDP	C8-N7-C5	2.87	107.43	102.55
128	2Q	501	GTP	C5-C6-N1	2.86	119.54	114.07
129	Ah	501	GDP	C8-N7-C5	2.86	107.43	102.55
128	C9	501	GTP	C2-N1-C6	-2.86	119.87	125.11
129	A9	502	GDP	C8-N7-C5	2.86	107.42	102.55
129	J2	502	GDP	C8-N7-C5	2.86	107.42	102.55
129	J6	502	GDP	C8-N7-C5	2.86	107.42	102.55
129	LX	502	GDP	C8-N7-C5	2.86	107.42	102.55
129	NH	502	GDP	C8-N7-C5	2.86	107.42	102.55
129	Z6	502	GDP	C8-N7-C5	2.86	107.42	102.55
129	Kj	503	GDP	C8-N7-C5	2.86	107.42	102.55
128	NF	501	GTP	C2-N1-C6	-2.86	119.87	125.11
128	F3	501	GTP	C5-C6-N1	2.86	119.53	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
129	A6	501	GDP	C8-N7-C5	2.86	107.42	102.55
129	Jw	502	GDP	C8-N7-C5	2.86	107.42	102.55
129	LV	501	GDP	C8-N7-C5	2.86	107.42	102.55
129	1E	501	GDP	C8-N7-C5	2.86	107.42	102.55
129	2K	502	GDP	C8-N7-C5	2.86	107.42	102.55
129	Kv	503	GDP	C8-N7-C5	2.86	107.42	102.55
129	U6	502	GDP	C8-N7-C5	2.86	107.42	102.55
129	BS	501	GDP	C8-N7-C5	2.86	107.42	102.55
129	Eu	502	GDP	C8-N7-C5	2.86	107.42	102.55
129	IY	501	GDP	C8-N7-C5	2.86	107.42	102.55
129	P4	503	GDP	C8-N7-C5	2.86	107.42	102.55
129	U4	502	GDP	C8-N7-C5	2.86	107.42	102.55
128	NF	501	GTP	C5-C6-N1	2.86	119.53	114.07
129	Di	502	GDP	C8-N7-C5	2.86	107.42	102.55
129	Nj	501	GDP	C8-N7-C5	2.86	107.42	102.55
128	Ct	501	GTP	C2-N1-C6	-2.86	119.88	125.11
129	2U	502	GDP	C8-N7-C5	2.86	107.42	102.55
129	DR	502	GDP	C8-N7-C5	2.86	107.42	102.55
129	KJ	501	GDP	C8-N7-C5	2.86	107.42	102.55
129	NS	502	GDP	C8-N7-C5	2.86	107.42	102.55
128	X7	501	GTP	C2-N1-C6	-2.86	119.88	125.11
129	3O	502	GDP	C8-N7-C5	2.86	107.42	102.55
129	0I	503	GDP	C8-N7-C5	2.86	107.42	102.55
129	3K	502	GDP	C8-N7-C5	2.86	107.42	102.55
129	DE	502	GDP	C8-N7-C5	2.86	107.42	102.55
129	Dk	502	GDP	C8-N7-C5	2.86	107.42	102.55
129	FT	503	GDP	C8-N7-C5	2.86	107.42	102.55
129	M0	502	GDP	C8-N7-C5	2.86	107.42	102.55
128	KY	501	GTP	C2-N1-C6	-2.86	119.88	125.11
129	S8	502	GDP	C8-N7-C5	2.86	107.41	102.55
129	E0	501	GDP	C8-N7-C5	2.86	107.41	102.55
129	LJ	502	GDP	C8-N7-C5	2.86	107.41	102.55
129	DG	502	GDP	C8-N7-C5	2.86	107.41	102.55
129	GH	502	GDP	C8-N7-C5	2.86	107.41	102.55
129	2Q	502	GDP	C8-N7-C5	2.86	107.41	102.55
129	BW	502	GDP	C8-N7-C5	2.86	107.41	102.55
129	DI	501	GDP	C8-N7-C5	2.86	107.41	102.55
129	K4	502	GDP	C8-N7-C5	2.86	107.41	102.55
129	K6	502	GDP	C8-N7-C5	2.86	107.41	102.55
129	NU	502	GDP	C8-N7-C5	2.86	107.41	102.55
129	DT	502	GDP	C8-N7-C5	2.86	107.41	102.55
129	X4	502	GDP	C8-N7-C5	2.86	107.41	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
129	2G	502	GDP	C8-N7-C5	2.85	107.41	102.55
129	8L	502	GDP	C8-N7-C5	2.85	107.41	102.55
129	CI	503	GDP	C8-N7-C5	2.85	107.41	102.55
129	Dx	501	GDP	C8-N7-C5	2.85	107.41	102.55
129	KL	502	GDP	C8-N7-C5	2.85	107.41	102.55
129	T4	502	GDP	C8-N7-C5	2.85	107.41	102.55
128	E6	501	GTP	C2-N1-C6	-2.85	119.89	125.11
128	E0	502	GTP	C5-C6-N1	2.85	119.52	114.07
129	Iy	502	GDP	C8-N7-C5	2.85	107.41	102.55
129	Kh	501	GDP	C8-N7-C5	2.85	107.41	102.55
129	MV	502	GDP	C8-N7-C5	2.85	107.41	102.55
129	Nf	502	GDP	C8-N7-C5	2.85	107.41	102.55
129	Bh	502	GDP	C8-N7-C5	2.85	107.41	102.55
129	S2	502	GDP	C8-N7-C5	2.85	107.41	102.55
128	EQ	501	GTP	C2-N1-C6	-2.85	119.89	125.11
129	X2	501	GDP	C8-N7-C5	2.85	107.41	102.55
129	W6	501	GDP	C8-N7-C5	2.85	107.41	102.55
128	Lu	501	GTP	C5-C6-N1	2.85	119.51	114.07
129	IO	501	GDP	C8-N7-C5	2.85	107.40	102.55
129	Bu	502	GDP	C8-N7-C5	2.85	107.40	102.55
129	O2	502	GDP	C8-N7-C5	2.85	107.40	102.55
129	3M	502	GDP	C8-N7-C5	2.85	107.40	102.55
129	JU	503	GDP	C8-N7-C5	2.85	107.40	102.55
129	Jh	503	GDP	C8-N7-C5	2.85	107.40	102.55
128	Mg	501	GTP	C2-N1-C6	-2.85	119.89	125.11
129	Mi	501	GDP	C8-N7-C5	2.85	107.40	102.55
129	Fc	502	GDP	C8-N7-C5	2.85	107.40	102.55
129	R0	502	GDP	C8-N7-C5	2.85	107.40	102.55
129	2Y	502	GDP	C8-N7-C5	2.85	107.40	102.55
129	3S	502	GDP	C8-N7-C5	2.85	107.40	102.55
129	BB	502	GDP	C8-N7-C5	2.85	107.40	102.55
129	Ck	501	GDP	C8-N7-C5	2.85	107.40	102.55
129	I8	502	GDP	C8-N7-C5	2.85	107.40	102.55
129	Y0	502	GDP	C8-N7-C5	2.85	107.40	102.55
129	Aj	502	GDP	C8-N7-C5	2.85	107.40	102.55
129	Al	501	GDP	C8-N7-C5	2.85	107.40	102.55
129	0M	502	GDP	C8-N7-C5	2.85	107.40	102.55
129	CK	502	GDP	C8-N7-C5	2.85	107.40	102.55
129	Q0	501	GDP	C8-N7-C5	2.85	107.40	102.55
129	8H	502	GDP	C8-N7-C5	2.85	107.39	102.55
129	U8	502	GDP	C8-N7-C5	2.85	107.39	102.55
129	JJ	501	GDP	C8-N7-C5	2.85	107.39	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	X4	501	GTP	C2-N1-C6	-2.85	119.90	125.11
129	Iw	502	GDP	C8-N7-C5	2.85	107.39	102.55
129	2M	501	GDP	C8-N7-C5	2.84	107.39	102.55
129	EF	502	GDP	C8-N7-C5	2.84	107.39	102.55
129	2A	502	GDP	C8-N7-C5	2.84	107.39	102.55
129	M4	502	GDP	C8-N7-C5	2.84	107.39	102.55
129	B8	501	GDP	C8-N7-C5	2.84	107.39	102.55
129	JW	503	GDP	C8-N7-C5	2.84	107.39	102.55
129	JY	501	GDP	C8-N7-C5	2.84	107.39	102.55
129	B3	501	GDP	C8-N7-C5	2.84	107.39	102.55
129	FK	501	GDP	C8-N7-C5	2.84	107.39	102.55
129	K0	502	GDP	C8-N7-C5	2.84	107.39	102.55
129	J4	502	GDP	C8-N7-C5	2.84	107.39	102.55
129	Bs	501	GDP	C8-N7-C5	2.84	107.39	102.55
128	Eq	501	GTP	C2-N1-C6	-2.84	119.91	125.11
129	LT	501	GDP	C8-N7-C5	2.84	107.39	102.55
129	NF	502	GDP	C8-N7-C5	2.84	107.39	102.55
129	CE	501	GDP	C8-N7-C5	2.84	107.38	102.55
129	Z2	502	GDP	C8-N7-C5	2.84	107.38	102.55
129	EH	502	GDP	C8-N7-C5	2.84	107.38	102.55
128	Eu	501	GTP	C2-N1-C6	-2.84	119.91	125.11
129	A3	501	GDP	C8-N7-C5	2.84	107.38	102.55
129	Dm	502	GDP	C8-N7-C5	2.84	107.38	102.55
129	Jj	502	GDP	C8-N7-C5	2.84	107.38	102.55
129	Bw	503	GDP	C8-N7-C5	2.84	107.38	102.55
129	DM	502	GDP	C8-N7-C5	2.84	107.38	102.55
129	Mg	502	GDP	C8-N7-C5	2.84	107.38	102.55
129	Z4	501	GDP	C8-N7-C5	2.84	107.38	102.55
129	AJ	501	GDP	C8-N7-C5	2.84	107.38	102.55
129	FV	502	GDP	C8-N7-C5	2.84	107.38	102.55
129	GB	502	GDP	C8-N7-C5	2.83	107.38	102.55
129	Au	501	GDP	C8-N7-C5	2.83	107.37	102.55
129	MT	502	GDP	C8-N7-C5	2.83	107.37	102.55
129	W0	502	GDP	C8-N7-C5	2.83	107.37	102.55
129	Cr	501	GDP	C8-N7-C5	2.83	107.37	102.55
129	DK	502	GDP	C8-N7-C5	2.83	107.37	102.55
128	BY	501	GTP	C2-N1-C6	-2.83	119.92	125.11
129	0E	501	GDP	C8-N7-C5	2.83	107.37	102.55
129	I2	501	GDP	C8-N7-C5	2.83	107.37	102.55
129	R4	502	GDP	C8-N7-C5	2.83	107.37	102.55
129	Bj	501	GDP	C8-N7-C5	2.83	107.37	102.55
129	T6	502	GDP	C8-N7-C5	2.83	107.37	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
129	V2	502	GDP	C8-N7-C5	2.83	107.37	102.55
129	0U	501	GDP	C8-N7-C5	2.83	107.37	102.55
129	Bf	501	GDP	C8-N7-C5	2.83	107.37	102.55
129	Dt	502	GDP	C8-N7-C5	2.83	107.37	102.55
129	1G	502	GDP	C8-N7-C5	2.83	107.37	102.55
129	1S	502	GDP	C8-N7-C5	2.83	107.37	102.55
129	T2	502	GDP	C8-N7-C5	2.83	107.36	102.55
129	By	503	GDP	C8-N7-C5	2.83	107.36	102.55
129	C0	502	GDP	C8-N7-C5	2.83	107.36	102.55
129	Ay	503	GDP	C8-N7-C5	2.83	107.36	102.55
129	G6	501	GDP	C8-N7-C5	2.83	107.36	102.55
129	F8	502	GDP	C8-N7-C5	2.82	107.36	102.55
129	Ft	502	GDP	C8-N7-C5	2.82	107.36	102.55
129	LH	502	GDP	C8-N7-C5	2.82	107.36	102.55
129	C2	501	GDP	C8-N7-C5	2.82	107.35	102.55
129	H4	501	GDP	C8-N7-C5	2.82	107.35	102.55
129	1C	502	GDP	C8-N7-C5	2.82	107.35	102.55
129	F0	502	GDP	C8-N7-C5	2.82	107.35	102.55
129	B6	501	GDP	C8-N7-C5	2.82	107.35	102.55
129	W4	502	GDP	C8-N7-C5	2.82	107.35	102.55
129	R2	503	GDP	C8-N7-C5	2.82	107.35	102.55
129	De	502	GDP	C8-N7-C5	2.82	107.35	102.55
129	0Y	502	GDP	C8-N7-C5	2.82	107.34	102.55
129	W2	502	GDP	C8-N7-C5	2.82	107.34	102.55
129	0W	501	GDP	C8-N7-C5	2.82	107.34	102.55
129	E6	502	GDP	C8-N7-C5	2.82	107.34	102.55
129	1W	502	GDP	C8-N7-C5	2.81	107.34	102.55
129	0G	501	GDP	C8-N7-C5	2.81	107.34	102.55
129	S4	501	GDP	C8-N7-C5	2.81	107.33	102.55
129	A1	502	GDP	C8-N7-C5	2.81	107.33	102.55
129	Aw	501	GDP	C8-N7-C5	2.81	107.33	102.55
129	H2	502	GDP	C8-N7-C5	2.81	107.33	102.55
129	Bl	502	GDP	C8-N7-C5	2.81	107.33	102.55
129	J0	502	GDP	C8-N7-C5	2.81	107.33	102.55
129	2I	502	GDP	C8-N7-C5	2.81	107.33	102.55
129	S6	501	GDP	C8-N7-C5	2.81	107.33	102.55
128	NH	501	GTP	C2-N1-C6	-2.81	119.97	125.11
129	FI	502	GDP	C8-N7-C5	2.80	107.32	102.55
129	Ap	501	GDP	C8-N7-C5	2.80	107.32	102.55
129	T8	502	GDP	C8-N7-C5	2.80	107.32	102.55
129	BU	502	GDP	C8-N7-C5	2.80	107.32	102.55
128	E8	501	GTP	C8-N7-C5	2.80	107.32	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
129	Lh	502	GDP	C8-N7-C5	2.79	107.31	102.55
129	0S	501	GDP	C8-N7-C5	2.79	107.31	102.55
129	Z8	501	GDP	C8-N7-C5	2.79	107.30	102.55
129	G2	501	GDP	C8-N7-C5	2.79	107.30	102.55
129	Ef	501	GDP	C8-N7-C5	2.79	107.30	102.55
129	O6	502	GDP	C8-N7-C5	2.78	107.29	102.55
129	E1	502	GDP	C8-N7-C5	2.78	107.28	102.55
129	D8	501	GDP	O4'-C1'-N9	2.77	112.42	108.75
129	I4	503	GDP	C8-N7-C5	2.77	107.26	102.55
129	BY	502	GDP	C8-N7-C5	2.77	107.26	102.55
129	0Q	503	GDP	C8-N7-C5	2.76	107.26	102.55
128	E8	501	GTP	N1-C2-N3	-2.76	118.26	123.32
129	FP	501	GDP	C8-N7-C5	2.76	107.25	102.55
129	O4	503	GDP	C8-N7-C5	2.75	107.22	102.55
129	Eq	502	GDP	C8-N7-C5	2.73	107.20	102.55
129	0O	502	GDP	C8-N7-C5	2.73	107.19	102.55
129	Es	502	GDP	C8-N7-C5	2.73	107.19	102.55
129	Ed	502	GDP	C8-N7-C5	2.69	107.13	102.55
128	ER	501	GTP	O4'-C1'-N9	2.69	112.31	108.75
129	0A	502	GDP	C8-N7-C5	2.67	107.10	102.55
129	Ew	502	GDP	C8-N7-C5	2.66	107.07	102.55
128	G3	502	GTP	O6-C6-C5	-2.60	119.17	124.32
128	X7	501	GTP	O4'-C1'-N9	2.60	112.19	108.75
128	Z3	501	GTP	O4'-C1'-N9	2.57	112.15	108.75
128	E8	501	GTP	C5-C6-N1	2.55	118.93	114.07
128	A2	501	GTP	O2B-PB-O3A	2.52	114.07	107.27
128	Ao	501	GTP	O2B-PB-O3A	2.44	113.87	107.27
128	MG	501	GTP	C4'-O4'-C1'	2.43	112.15	109.92
129	0E	501	GDP	C2'-C3'-C4'	2.39	107.24	102.61
128	BW	501	GTP	O4'-C1'-N9	2.38	111.90	108.75
128	G3	502	GTP	N1-C2-N3	-2.35	119.01	123.32
128	E1	501	GTP	O2B-PB-O3B	2.35	113.62	107.27
128	ER	501	GTP	C4'-O4'-C1'	-2.35	107.78	109.92
128	BY	501	GTP	O4'-C1'-N9	2.33	111.84	108.75
129	D4	501	GDP	O4'-C1'-N9	2.33	111.84	108.75
128	NH	501	GTP	C5-C6-N1	2.33	118.52	114.07
129	U2	502	GDP	O4'-C1'-N9	2.33	111.84	108.75
128	0O	501	GTP	O4'-C1'-N9	2.32	111.82	108.75
128	2C	501	GTP	O4'-C1'-N9	2.32	111.82	108.75
129	D6	501	GDP	O4'-C1'-N9	2.28	111.78	108.75
129	0G	501	GDP	C5-C6-N1	2.28	118.42	114.07
128	NH	501	GTP	O2B-PB-O3A	2.28	113.44	107.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	3P	501	GTP	O4'-C1'-N9	2.28	111.77	108.75
128	Iw	501	GTP	O6-C6-C5	-2.27	119.82	124.32
128	GF	501	GTP	O4'-C1'-N9	2.27	111.75	108.75
129	0G	501	GDP	O6-C6-C5	-2.26	119.83	124.32
129	Dx	501	GDP	C5-C6-N1	2.26	118.39	114.07
128	DR	501	GTP	O6-C6-C5	-2.25	119.86	124.32
128	Z3	501	GTP	O6-C6-C5	-2.25	119.87	124.32
128	E8	501	GTP	O6-C6-C5	-2.25	119.87	124.32
128	S0	501	GTP	O6-C6-C5	-2.24	119.88	124.32
128	Az	501	GTP	O6-C6-C5	-2.24	119.88	124.32
128	IL	501	GTP	O2B-PB-O3A	2.23	113.29	107.27
128	Ee	501	GTP	O6-C6-C5	-2.22	119.91	124.32
128	F1	501	GTP	O6-C6-C5	-2.22	119.92	124.32
128	EU	501	GTP	O6-C6-C5	-2.22	119.93	124.32
128	BY	501	GTP	O6-C6-C5	-2.21	119.93	124.32
128	DZ	501	GTP	O6-C6-C5	-2.20	119.95	124.32
129	V2	502	GDP	C5-C6-N1	2.20	118.27	114.07
128	C1	501	GTP	O6-C6-C5	-2.20	119.95	124.32
128	Q6	501	GTP	O6-C6-C5	-2.20	119.95	124.32
129	Cm	502	GDP	C5-C6-N1	2.20	118.26	114.07
128	Bz	501	GTP	O6-C6-C5	-2.20	119.97	124.32
129	A3	501	GDP	O3B-PB-O3A	2.19	111.99	104.64
129	3O	502	GDP	C5-C6-N1	2.19	118.25	114.07
128	Ao	501	GTP	O6-C6-C5	-2.19	119.97	124.32
128	CX	501	GTP	O6-C6-C5	-2.19	119.97	124.32
129	L4	502	GDP	C5-C6-N1	2.19	118.25	114.07
128	FI	501	GTP	O6-C6-C5	-2.19	119.98	124.32
128	N0	501	GTP	O6-C6-C5	-2.18	119.99	124.32
128	B0	501	GTP	O6-C6-C5	-2.18	119.99	124.32
128	R8	502	GTP	O6-C6-C5	-2.18	119.99	124.32
128	0Q	502	GTP	O6-C6-C5	-2.18	119.99	124.32
128	2L	501	GTP	O6-C6-C5	-2.18	119.99	124.32
128	2E	501	GTP	O6-C6-C5	-2.18	120.00	124.32
128	Ag	501	GTP	O6-C6-C5	-2.18	120.00	124.32
128	Aj	501	GTP	O6-C6-C5	-2.18	120.00	124.32
128	A2	501	GTP	O6-C6-C5	-2.18	120.00	124.32
128	Ed	501	GTP	O4'-C1'-N9	2.18	111.63	108.75
128	An	501	GTP	O6-C6-C5	-2.18	120.01	124.32
128	Cm	501	GTP	O6-C6-C5	-2.18	120.01	124.32
128	At	501	GTP	O6-C6-C5	-2.18	120.01	124.32
128	L2	501	GTP	O6-C6-C5	-2.17	120.01	124.32
128	Bu	501	GTP	O6-C6-C5	-2.17	120.02	124.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
129	2M	501	GDP	C5-C6-N1	2.17	118.21	114.07
129	Fk	502	GDP	C5-C6-N1	2.17	118.21	114.07
129	2I	502	GDP	C5-C6-N1	2.17	118.21	114.07
128	CG	501	GTP	O6-C6-C5	-2.17	120.02	124.32
128	K0	501	GTP	O6-C6-C5	-2.17	120.03	124.32
128	N8	501	GTP	O6-C6-C5	-2.17	120.03	124.32
128	GI	501	GTP	O6-C6-C5	-2.16	120.03	124.32
128	S2	501	GTP	O6-C6-C5	-2.16	120.03	124.32
128	Bm	501	GTP	O6-C6-C5	-2.16	120.03	124.32
129	D6	501	GDP	C5-C6-N1	2.16	118.19	114.07
129	2K	502	GDP	C5-C6-N1	2.16	118.19	114.07
129	GD	502	GDP	C5-C6-N1	2.16	118.19	114.07
128	0O	501	GTP	O2G-PG-O3B	2.16	111.88	104.64
128	DV	501	GTP	O6-C6-C5	-2.16	120.04	124.32
128	Z7	501	GTP	O6-C6-C5	-2.16	120.04	124.32
129	FG	502	GDP	C5-C6-N1	2.16	118.19	114.07
128	Fk	501	GTP	O2B-PB-O3B	2.16	113.11	107.27
129	EF	502	GDP	C5-C6-N1	2.16	118.19	114.07
128	IW	501	GTP	O6-C6-C5	-2.16	120.05	124.32
128	K4	501	GTP	O6-C6-C5	-2.16	120.05	124.32
129	X0	502	GDP	C5-C6-N1	2.16	118.18	114.07
128	DM	501	GTP	O6-C6-C5	-2.16	120.05	124.32
129	Cz	502	GDP	C5-C6-N1	2.16	118.18	114.07
128	Du	501	GTP	O6-C6-C5	-2.15	120.05	124.32
129	Ef	501	GDP	C5-C6-N1	2.15	118.18	114.07
128	Bh	501	GTP	O6-C6-C5	-2.15	120.05	124.32
128	DK	501	GTP	O6-C6-C5	-2.15	120.05	124.32
128	A4	501	GTP	O6-C6-C5	-2.15	120.05	124.32
128	JK	501	GTP	O6-C6-C5	-2.15	120.05	124.32
128	T8	501	GTP	O6-C6-C5	-2.15	120.05	124.32
129	Jw	502	GDP	C5-C6-N1	2.15	118.17	114.07
129	W8	502	GDP	C5-C6-N1	2.15	118.17	114.07
128	DE	501	GTP	O6-C6-C5	-2.15	120.06	124.32
128	KL	501	GTP	O6-C6-C5	-2.15	120.06	124.32
128	Li	501	GTP	O6-C6-C5	-2.15	120.06	124.32
129	W4	502	GDP	C5-C6-N1	2.15	118.17	114.07
129	CX	502	GDP	C5-C6-N1	2.15	118.17	114.07
128	Ci	501	GTP	O6-C6-C5	-2.15	120.06	124.32
129	FG	502	GDP	O2A-PA-O3A	2.15	113.08	107.27
129	ED	502	GDP	O4'-C1'-N9	2.15	111.59	108.75
128	U2	501	GTP	O6-C6-C5	-2.15	120.06	124.32
128	GH	501	GTP	O6-C6-C5	-2.15	120.06	124.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
129	DR	502	GDP	C5-C6-N1	2.15	118.16	114.07
128	G0	501	GTP	O6-C6-C5	-2.15	120.07	124.32
129	2W	502	GDP	C5-C6-N1	2.14	118.16	114.07
129	Dv	501	GDP	C5-C6-N1	2.14	118.16	114.07
129	Lu	502	GDP	C5-C6-N1	2.14	118.16	114.07
129	Q4	502	GDP	C5-C6-N1	2.14	118.16	114.07
128	F8	501	GTP	O6-C6-C5	-2.14	120.07	124.32
128	8H	501	GTP	O6-C6-C5	-2.14	120.07	124.32
128	S8	501	GTP	O6-C6-C5	-2.14	120.07	124.32
128	J2	501	GTP	O6-C6-C5	-2.14	120.08	124.32
128	D7	501	GTP	O6-C6-C5	-2.14	120.08	124.32
129	V0	501	GDP	C5-C6-N1	2.14	118.15	114.07
128	G5	501	GTP	O6-C6-C5	-2.14	120.08	124.32
129	B6	501	GDP	O3B-PB-O3A	2.14	111.81	104.64
129	D8	501	GDP	C5-C6-N1	2.14	118.15	114.07
128	1L	501	GTP	O6-C6-C5	-2.14	120.08	124.32
128	V2	501	GTP	O6-C6-C5	-2.14	120.08	124.32
129	H2	502	GDP	C5-C6-N1	2.14	118.15	114.07
128	Mh	501	GTP	O6-C6-C5	-2.14	120.08	124.32
128	DH	501	GTP	O6-C6-C5	-2.14	120.08	124.32
128	X0	501	GTP	O6-C6-C5	-2.14	120.08	124.32
128	De	501	GTP	O6-C6-C5	-2.14	120.08	124.32
128	8L	501	GTP	O6-C6-C5	-2.14	120.08	124.32
129	J8	503	GDP	C5-C6-N1	2.14	118.14	114.07
128	X4	501	GTP	O6-C6-C5	-2.14	120.09	124.32
128	Dz	501	GTP	O6-C6-C5	-2.14	120.09	124.32
128	Z6	501	GTP	O6-C6-C5	-2.14	120.09	124.32
129	R8	503	GDP	O3B-PB-O3A	2.13	111.79	104.64
128	Es	501	GTP	O2B-PB-O3B	2.13	113.04	107.27
128	Fr	501	GTP	O6-C6-C5	-2.13	120.09	124.32
128	I8	501	GTP	O6-C6-C5	-2.13	120.09	124.32
128	R6	501	GTP	O6-C6-C5	-2.13	120.09	124.32
129	W2	502	GDP	C5-C6-N1	2.13	118.14	114.07
128	1D	501	GTP	O6-C6-C5	-2.13	120.09	124.32
128	B7	501	GTP	O6-C6-C5	-2.13	120.09	124.32
128	IL	501	GTP	O6-C6-C5	-2.13	120.09	124.32
128	W5	501	GTP	O6-C6-C5	-2.13	120.09	124.32
129	Dg	501	GDP	C5-C6-N1	2.13	118.14	114.07
128	DG	501	GTP	O6-C6-C5	-2.13	120.10	124.32
129	Dt	502	GDP	C5-C6-N1	2.13	118.13	114.07
128	K7	501	GTP	O6-C6-C5	-2.13	120.10	124.32
128	A1	501	GTP	O6-C6-C5	-2.13	120.10	124.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	DT	501	GTP	O6-C6-C5	-2.13	120.10	124.32
129	Ci	502	GDP	C5-C6-N1	2.13	118.13	114.07
128	B5	501	GTP	O6-C6-C5	-2.13	120.10	124.32
129	Bl	502	GDP	C5-C6-N1	2.13	118.13	114.07
129	GB	502	GDP	C5-C6-N1	2.13	118.13	114.07
128	Ay	502	GTP	O6-C6-C5	-2.13	120.10	124.32
128	I1	501	GTP	O6-C6-C5	-2.13	120.10	124.32
128	M6	501	GTP	O6-C6-C5	-2.13	120.10	124.32
129	0O	502	GDP	C5-C6-N1	2.13	118.13	114.07
129	CG	502	GDP	C5-C6-N1	2.13	118.13	114.07
129	Ej	501	GDP	C5-C6-N1	2.13	118.13	114.07
128	T4	501	GTP	O6-C6-C5	-2.13	120.10	124.32
128	W4	501	GTP	O6-C6-C5	-2.13	120.10	124.32
129	Dk	502	GDP	C5-C6-N1	2.13	118.13	114.07
128	Dt	501	GTP	O6-C6-C5	-2.13	120.11	124.32
129	Jj	502	GDP	C5-C6-N1	2.13	118.13	114.07
128	BB	501	GTP	O6-C6-C5	-2.13	120.11	124.32
129	DK	502	GDP	C5-C6-N1	2.13	118.12	114.07
129	I4	503	GDP	C5-C6-N1	2.13	118.12	114.07
128	0R	502	GTP	O6-C6-C5	-2.12	120.11	124.32
128	0C	501	GTP	O2B-PB-O3A	2.12	113.02	107.27
129	DX	502	GDP	C5-C6-N1	2.12	118.12	114.07
129	CE	501	GDP	C5-C6-N1	2.12	118.12	114.07
129	CR	501	GDP	C5-C6-N1	2.12	118.12	114.07
129	Dz	502	GDP	C5-C6-N1	2.12	118.12	114.07
128	Es	501	GTP	O6-C6-C5	-2.12	120.11	124.32
129	L2	502	GDP	C5-C6-N1	2.12	118.12	114.07
129	Mt	502	GDP	C5-C6-N1	2.12	118.12	114.07
129	W6	501	GDP	C5-C6-N1	2.12	118.12	114.07
128	DX	501	GTP	O6-C6-C5	-2.12	120.11	124.32
128	Dr	501	GTP	O6-C6-C5	-2.12	120.11	124.32
129	Fg	502	GDP	C5-C6-N1	2.12	118.12	114.07
129	E6	502	GDP	C5-C6-N1	2.12	118.12	114.07
129	EL	502	GDP	C5-C6-N1	2.12	118.12	114.07
129	DG	502	GDP	C5-C6-N1	2.12	118.11	114.07
129	EU	502	GDP	C5-C6-N1	2.12	118.11	114.07
128	H6	501	GTP	O6-C6-C5	-2.12	120.12	124.32
128	CU	501	GTP	O6-C6-C5	-2.12	120.12	124.32
128	F5	501	GTP	O6-C6-C5	-2.12	120.12	124.32
129	An	502	GDP	C5-C6-N1	2.12	118.11	114.07
129	0C	502	GDP	C5-C6-N1	2.12	118.11	114.07
129	NF	502	GDP	C5-C6-N1	2.12	118.11	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	8I	501	GTP	O6-C6-C5	-2.12	120.12	124.32
128	JI	502	GTP	O6-C6-C5	-2.12	120.12	124.32
128	NJ	501	GTP	O6-C6-C5	-2.12	120.12	124.32
128	3C	501	GTP	O6-C6-C5	-2.12	120.12	124.32
128	0V	501	GTP	O6-C6-C5	-2.12	120.12	124.32
129	Q6	502	GDP	C5-C6-N1	2.12	118.11	114.07
128	0K	501	GTP	O6-C6-C5	-2.12	120.13	124.32
128	CM	502	GTP	O6-C6-C5	-2.12	120.13	124.32
128	V3	501	GTP	O6-C6-C5	-2.11	120.13	124.32
129	Kh	501	GDP	C5-C6-N1	2.11	118.10	114.07
128	Cr	502	GTP	O2B-PB-O3B	2.11	112.99	107.27
128	Ft	501	GTP	O6-C6-C5	-2.11	120.13	124.32
129	LX	502	GDP	C5-C6-N1	2.11	118.10	114.07
129	3K	502	GDP	C5-C6-N1	2.11	118.10	114.07
128	Ew	501	GTP	O6-C6-C5	-2.11	120.13	124.32
129	Bf	501	GDP	C5-C6-N1	2.11	118.10	114.07
129	IY	501	GDP	C5-C6-N1	2.11	118.10	114.07
129	3Q	501	GDP	C5-C6-N1	2.11	118.10	114.07
129	D0	501	GDP	C5-C6-N1	2.11	118.10	114.07
129	V4	501	GDP	C5-C6-N1	2.11	118.10	114.07
128	H2	501	GTP	O6-C6-C5	-2.11	120.13	124.32
129	C2	501	GDP	C5-C6-N1	2.11	118.10	114.07
129	DZ	502	GDP	C5-C6-N1	2.11	118.10	114.07
129	K4	502	GDP	C5-C6-N1	2.11	118.10	114.07
128	IL	501	GTP	C4'-O4'-C1'	2.11	111.86	109.92
129	B8	501	GDP	C5-C6-N1	2.11	118.10	114.07
128	Nh	501	GTP	O6-C6-C5	-2.11	120.14	124.32
128	Y0	501	GTP	O6-C6-C5	-2.11	120.14	124.32
129	CM	503	GDP	C5-C6-N1	2.11	118.09	114.07
129	H6	502	GDP	C5-C6-N1	2.11	118.09	114.07
129	CV	501	GDP	C5-C6-N1	2.11	118.09	114.07
128	Jy	501	GTP	O6-C6-C5	-2.11	120.14	124.32
129	KU	502	GDP	C5-C6-N1	2.11	118.09	114.07
128	AT	501	GTP	O6-C6-C5	-2.11	120.14	124.32
129	2U	502	GDP	C5-C6-N1	2.11	118.09	114.07
129	N0	502	GDP	C5-C6-N1	2.11	118.09	114.07
129	O0	502	GDP	C5-C6-N1	2.11	118.09	114.07
128	Ce	502	GTP	O6-C6-C5	-2.11	120.14	124.32
128	Ni	501	GTP	O6-C6-C5	-2.11	120.14	124.32
128	Y6	501	GTP	O6-C6-C5	-2.11	120.14	124.32
129	Ba	502	GDP	C5-C6-N1	2.11	118.09	114.07
128	Cj	501	GTP	O6-C6-C5	-2.11	120.14	124.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	IK	501	GTP	O6-C6-C5	-2.11	120.14	124.32
129	C0	502	GDP	C5-C6-N1	2.11	118.09	114.07
129	E0	501	GDP	C5-C6-N1	2.11	118.09	114.07
129	FT	503	GDP	C5-C6-N1	2.11	118.09	114.07
129	LT	501	GDP	C5-C6-N1	2.11	118.09	114.07
128	G7	501	GTP	O6-C6-C5	-2.11	120.14	124.32
128	GB	501	GTP	O2G-PG-O3B	2.11	111.70	104.64
128	Eu	501	GTP	O6-C6-C5	-2.11	120.15	124.32
129	2A	502	GDP	C5-C6-N1	2.11	118.09	114.07
129	A6	501	GDP	C5-C6-N1	2.11	118.09	114.07
129	FV	502	GDP	C5-C6-N1	2.11	118.09	114.07
129	I2	501	GDP	C5-C6-N1	2.11	118.09	114.07
128	Dw	501	GTP	O6-C6-C5	-2.11	120.15	124.32
128	GB	501	GTP	O6-C6-C5	-2.11	120.15	124.32
129	Au	501	GDP	C5-C6-N1	2.10	118.08	114.07
129	LV	501	GDP	C5-C6-N1	2.10	118.08	114.07
128	Ik	501	GTP	O6-C6-C5	-2.10	120.15	124.32
128	IX	501	GTP	O6-C6-C5	-2.10	120.15	124.32
129	Fe	502	GDP	C5-C6-N1	2.10	118.08	114.07
129	1U	501	GDP	C5-C6-N1	2.10	118.08	114.07
129	DT	502	GDP	C5-C6-N1	2.10	118.08	114.07
129	Kl	502	GDP	C5-C6-N1	2.10	118.08	114.07
129	T6	502	GDP	C5-C6-N1	2.10	118.08	114.07
129	Y6	502	GDP	C5-C6-N1	2.10	118.08	114.07
128	Jl	502	GTP	O6-C6-C5	-2.10	120.15	124.32
129	EH	502	GDP	C5-C6-N1	2.10	118.08	114.07
129	GJ	501	GDP	C5-C6-N1	2.10	118.08	114.07
129	R8	503	GDP	C5-C6-N1	2.10	118.08	114.07
128	Jj	501	GTP	O6-C6-C5	-2.10	120.15	124.32
128	R2	502	GTP	O6-C6-C5	-2.10	120.15	124.32
128	2S	501	GTP	O6-C6-C5	-2.10	120.15	124.32
129	BM	501	GDP	C5-C6-N1	2.10	118.08	114.07
129	FR	501	GDP	C5-C6-N1	2.10	118.08	114.07
128	2G	501	GTP	O6-C6-C5	-2.10	120.16	124.32
128	Kx	501	GTP	O6-C6-C5	-2.10	120.16	124.32
129	Ct	502	GDP	C5-C6-N1	2.10	118.08	114.07
129	Dr	502	GDP	C5-C6-N1	2.10	118.08	114.07
128	Bo	501	GTP	O6-C6-C5	-2.10	120.16	124.32
129	BK	501	GDP	C5-C6-N1	2.10	118.08	114.07
128	A9	501	GTP	O6-C6-C5	-2.10	120.16	124.32
128	P6	501	GTP	O6-C6-C5	-2.10	120.16	124.32
128	P9	501	GTP	O6-C6-C5	-2.10	120.16	124.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	I5	501	GTP	O6-C6-C5	-2.10	120.16	124.32
129	T8	502	GDP	C5-C6-N1	2.10	118.08	114.07
128	U7	501	GTP	O6-C6-C5	-2.10	120.16	124.32
129	Aw	501	GDP	C5-C6-N1	2.10	118.07	114.07
129	ES	501	GDP	C5-C6-N1	2.10	118.07	114.07
128	3K	501	GTP	O6-C6-C5	-2.10	120.16	124.32
128	EH	501	GTP	O6-C6-C5	-2.10	120.16	124.32
129	DI	501	GDP	C5-C6-N1	2.10	118.07	114.07
129	1A	502	GDP	O3B-PB-O3A	2.10	111.67	104.64
129	Lw	501	GDP	C5-C6-N1	2.10	118.07	114.07
128	B5	501	GTP	O2B-PB-O3B	2.10	112.94	107.27
128	By	502	GTP	O6-C6-C5	-2.10	120.16	124.32
128	J6	501	GTP	O6-C6-C5	-2.10	120.16	124.32
128	Z0	501	GTP	O6-C6-C5	-2.10	120.16	124.32
129	Ap	501	GDP	C5-C6-N1	2.10	118.07	114.07
129	Q2	502	GDP	O3B-PB-O3A	2.10	111.67	104.64
129	O2	502	GDP	C5-C6-N1	2.10	118.07	114.07
128	L6	501	GTP	O6-C6-C5	-2.10	120.17	124.32
128	2C	501	GTP	O6-C6-C5	-2.10	120.17	124.32
128	Fp	501	GTP	O6-C6-C5	-2.10	120.17	124.32
129	0O	502	GDP	O6-C6-C5	-2.10	120.17	124.32
129	Fv	502	GDP	C5-C6-N1	2.09	118.07	114.07
129	Bu	502	GDP	C5-C6-N1	2.09	118.06	114.07
128	FG	501	GTP	O6-C6-C5	-2.09	120.17	124.32
129	Fp	502	GDP	C5-C6-N1	2.09	118.06	114.07
128	C0	501	GTP	O6-C6-C5	-2.09	120.17	124.32
129	BS	501	GDP	C5-C6-N1	2.09	118.06	114.07
129	EW	501	GDP	C5-C6-N1	2.09	118.06	114.07
128	KH	501	GTP	O6-C6-C5	-2.09	120.17	124.32
129	2Y	502	GDP	C5-C6-N1	2.09	118.06	114.07
129	X8	501	GDP	C5-C6-N1	2.09	118.06	114.07
129	Fc	502	GDP	C5-C6-N1	2.09	118.06	114.07
129	S6	501	GDP	C5-C6-N1	2.09	118.06	114.07
128	GD	501	GTP	O6-C6-C5	-2.09	120.17	124.32
128	LX	501	GTP	O6-C6-C5	-2.09	120.17	124.32
129	3A	502	GDP	C5-C6-N1	2.09	118.06	114.07
129	Cx	502	GDP	C5-C6-N1	2.09	118.06	114.07
129	FE	502	GDP	C5-C6-N1	2.09	118.06	114.07
128	Ak	501	GTP	O6-C6-C5	-2.09	120.18	124.32
128	CS	501	GTP	O6-C6-C5	-2.09	120.18	124.32
128	Dm	501	GTP	O6-C6-C5	-2.09	120.18	124.32
128	KU	501	GTP	O6-C6-C5	-2.09	120.18	124.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
129	LJ	502	GDP	C5-C6-N1	2.09	118.06	114.07
128	Kv	501	GTP	O6-C6-C5	-2.09	120.18	124.32
129	Y0	502	GDP	C5-C6-N1	2.09	118.06	114.07
128	NH	501	GTP	O5'-C5'-C4'	2.09	116.11	108.99
128	0I	502	GTP	O6-C6-C5	-2.09	120.18	124.32
129	2G	502	GDP	C5-C6-N1	2.09	118.05	114.07
129	Y4	502	GDP	C5-C6-N1	2.09	118.05	114.07
128	Y1	501	GTP	O6-C6-C5	-2.09	120.18	124.32
129	2C	502	GDP	C5-C6-N1	2.09	118.05	114.07
129	Jl	503	GDP	C5-C6-N1	2.09	118.05	114.07
129	FC	501	GDP	C5-C6-N1	2.09	118.05	114.07
129	X6	502	GDP	C5-C6-N1	2.09	118.05	114.07
129	Fx	502	GDP	C5-C6-N1	2.09	118.05	114.07
129	K8	501	GDP	C5-C6-N1	2.09	118.05	114.07
129	X2	501	GDP	C5-C6-N1	2.09	118.05	114.07
128	LH	501	GTP	O6-C6-C5	-2.09	120.19	124.32
128	Nf	501	GTP	O6-C6-C5	-2.09	120.19	124.32
129	Mv	501	GDP	C5-C6-N1	2.09	118.05	114.07
128	BG	501	GTP	O4'-C1'-N9	2.09	111.51	108.75
129	B1	501	GDP	C5-C6-N1	2.08	118.05	114.07
129	T4	502	GDP	C5-C6-N1	2.08	118.05	114.07
128	Q2	501	GTP	O6-C6-C5	-2.08	120.19	124.32
128	W8	501	GTP	O6-C6-C5	-2.08	120.19	124.32
129	C6	501	GDP	C5-C6-N1	2.08	118.05	114.07
129	J6	502	GDP	C5-C6-N1	2.08	118.05	114.07
128	MT	501	GTP	O6-C6-C5	-2.08	120.19	124.32
128	A2	501	GTP	C4'-O4'-C1'	2.08	111.83	109.92
129	GH	502	GDP	C5-C6-N1	2.08	118.04	114.07
129	JY	501	GDP	C5-C6-N1	2.08	118.04	114.07
129	KW	502	GDP	C5-C6-N1	2.08	118.04	114.07
128	C4	502	GTP	O6-C6-C5	-2.08	120.19	124.32
128	MG	501	GTP	O6-C6-C5	-2.08	120.19	124.32
129	A9	502	GDP	C5-C6-N1	2.08	118.04	114.07
129	DM	502	GDP	C5-C6-N1	2.08	118.04	114.07
129	Ed	502	GDP	C5-C6-N1	2.08	118.04	114.07
129	Q8	501	GDP	C5-C6-N1	2.08	118.04	114.07
128	G1	501	GTP	O6-C6-C5	-2.08	120.19	124.32
129	EQ	502	GDP	C5-C6-N1	2.08	118.04	114.07
129	J0	502	GDP	C5-C6-N1	2.08	118.04	114.07
129	MI	501	GDP	C5-C6-N1	2.08	118.04	114.07
129	NS	502	GDP	C5-C6-N1	2.08	118.04	114.07
128	3G	501	GTP	O6-C6-C5	-2.08	120.19	124.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	EI	501	GTP	O6-C6-C5	-2.08	120.19	124.32
128	Mg	501	GTP	O6-C6-C5	-2.08	120.19	124.32
129	1G	502	GDP	C5-C6-N1	2.08	118.04	114.07
129	Cg	502	GDP	C5-C6-N1	2.08	118.04	114.07
129	B6	501	GDP	C5-C6-N1	2.08	118.04	114.07
129	G8	501	GDP	C5-C6-N1	2.08	118.04	114.07
128	Dz	501	GTP	O2G-PG-O3B	2.08	111.61	104.64
129	2S	502	GDP	C5-C6-N1	2.08	118.04	114.07
129	Bw	503	GDP	C5-C6-N1	2.08	118.04	114.07
128	Jw	501	GTP	O6-C6-C5	-2.08	120.20	124.32
128	T6	501	GTP	O6-C6-C5	-2.08	120.20	124.32
129	Lh	502	GDP	C5-C6-N1	2.08	118.04	114.07
129	CK	502	GDP	C5-C6-N1	2.08	118.04	114.07
129	U2	502	GDP	C5-C6-N1	2.08	118.04	114.07
128	Av	501	GTP	O6-C6-C5	-2.08	120.20	124.32
129	FG	502	GDP	O3B-PB-O3A	2.08	111.61	104.64
129	B3	501	GDP	C5-C6-N1	2.08	118.04	114.07
129	0U	501	GDP	C5-C6-N1	2.08	118.03	114.07
128	2I	501	GTP	O6-C6-C5	-2.08	120.20	124.32
128	Cg	501	GTP	O6-C6-C5	-2.08	120.20	124.32
129	KH	502	GDP	C5-C6-N1	2.08	118.03	114.07
129	KY	502	GDP	C5-C6-N1	2.08	118.03	114.07
129	U8	502	GDP	C5-C6-N1	2.08	118.03	114.07
128	Lv	501	GTP	O6-C6-C5	-2.08	120.20	124.32
129	Ce	501	GDP	C5-C6-N1	2.08	118.03	114.07
129	JU	503	GDP	C5-C6-N1	2.08	118.03	114.07
128	Bi	501	GTP	O6-C6-C5	-2.08	120.20	124.32
129	BG	502	GDP	C5-C6-N1	2.08	118.03	114.07
129	IW	502	GDP	C5-C6-N1	2.08	118.03	114.07
129	O8	502	GDP	C5-C6-N1	2.08	118.03	114.07
128	2U	501	GTP	O6-C6-C5	-2.08	120.20	124.32
128	J8	502	GTP	O6-C6-C5	-2.08	120.20	124.32
129	Jy	502	GDP	C5-C6-N1	2.08	118.03	114.07
128	1H	501	GTP	O6-C6-C5	-2.08	120.20	124.32
128	EF	501	GTP	O6-C6-C5	-2.08	120.20	124.32
128	El	501	GTP	O6-C6-C5	-2.08	120.20	124.32
129	Z0	502	GDP	C5-C6-N1	2.08	118.03	114.07
129	Z8	501	GDP	C5-C6-N1	2.08	118.03	114.07
128	X6	501	GTP	O6-C6-C5	-2.08	120.21	124.32
129	K0	502	GDP	C5-C6-N1	2.08	118.03	114.07
129	0Y	502	GDP	C5-C6-N1	2.07	118.03	114.07
129	1E	501	GDP	C5-C6-N1	2.07	118.03	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
129	G2	501	GDP	C5-C6-N1	2.07	118.03	114.07
128	Fx	501	GTP	O6-C6-C5	-2.07	120.21	124.32
128	M2	501	GTP	O6-C6-C5	-2.07	120.21	124.32
129	CI	503	GDP	C5-C6-N1	2.07	118.03	114.07
128	0A	501	GTP	O6-C6-C5	-2.07	120.21	124.32
129	FK	501	GDP	C5-C6-N1	2.07	118.03	114.07
129	S2	502	GDP	C5-C6-N1	2.07	118.03	114.07
129	Z4	501	GDP	C5-C6-N1	2.07	118.03	114.07
128	NS	501	GTP	O6-C6-C5	-2.07	120.21	124.32
129	BW	502	GDP	C5-C6-N1	2.07	118.03	114.07
129	De	502	GDP	C5-C6-N1	2.07	118.03	114.07
129	F6	501	GDP	C5-C6-N1	2.07	118.03	114.07
129	Dm	502	GDP	C5-C6-N1	2.07	118.02	114.07
128	Lh	501	GTP	O6-C6-C5	-2.07	120.21	124.32
129	Lj	501	GDP	C5-C6-N1	2.07	118.02	114.07
128	FJ	501	GTP	O6-C6-C5	-2.07	120.21	124.32
128	B2	501	GTP	O6-C6-C5	-2.07	120.21	124.32
128	Q4	501	GTP	O6-C6-C5	-2.07	120.21	124.32
129	El	502	GDP	C5-C6-N1	2.07	118.02	114.07
128	Eq	501	GTP	O6-C6-C5	-2.07	120.22	124.32
128	Jh	501	GTP	O6-C6-C5	-2.07	120.22	124.32
129	1A	502	GDP	C5-C6-N1	2.07	118.02	114.07
129	T0	501	GDP	C5-C6-N1	2.07	118.02	114.07
129	Y8	501	GDP	C5-C6-N1	2.07	118.02	114.07
129	Z2	502	GDP	C5-C6-N1	2.07	118.02	114.07
128	BY	501	GTP	N1-C2-N3	-2.07	119.53	123.32
128	Dk	501	GTP	O6-C6-C5	-2.07	120.22	124.32
129	BU	502	GDP	C5-C6-N1	2.07	118.02	114.07
128	J0	501	GTP	O6-C6-C5	-2.07	120.22	124.32
128	2Q	501	GTP	O6-C6-C5	-2.07	120.22	124.32
128	W2	501	GTP	O6-C6-C5	-2.07	120.22	124.32
129	A3	501	GDP	C5-C6-N1	2.07	118.02	114.07
129	N2	501	GDP	C5-C6-N1	2.07	118.02	114.07
128	Bl	501	GTP	O6-C6-C5	-2.07	120.22	124.32
128	I4	502	GTP	O6-C6-C5	-2.07	120.22	124.32
129	Fi	502	GDP	C5-C6-N1	2.07	118.02	114.07
129	M2	502	GDP	C5-C6-N1	2.07	118.02	114.07
128	R0	501	GTP	O6-C6-C5	-2.07	120.22	124.32
129	0S	501	GDP	C2'-C3'-C4'	2.07	106.60	102.61
128	K6	501	GTP	O6-C6-C5	-2.07	120.22	124.32
129	A5	501	GDP	C5-C6-N1	2.07	118.01	114.07
128	JU	501	GTP	O6-C6-C5	-2.07	120.22	124.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
129	Al	501	GDP	C5-C6-N1	2.07	118.01	114.07
129	Cv	503	GDP	C5-C6-N1	2.07	118.01	114.07
128	3S	501	GTP	O6-C6-C5	-2.07	120.22	124.32
128	E1	501	GTP	O6-C6-C5	-2.07	120.22	124.32
128	Lu	501	GTP	O6-C6-C5	-2.07	120.22	124.32
128	P8	501	GTP	O6-C6-C5	-2.07	120.22	124.32
129	1C	502	GDP	C5-C6-N1	2.07	118.01	114.07
129	1K	501	GDP	C5-C6-N1	2.07	118.01	114.07
129	BB	502	GDP	C5-C6-N1	2.07	118.01	114.07
128	F1	501	GTP	O6-C6-C5	-2.07	120.23	124.32
128	Fv	501	GTP	O6-C6-C5	-2.07	120.23	124.32
128	NU	501	GTP	O6-C6-C5	-2.07	120.23	124.32
129	IM	501	GDP	C5-C6-N1	2.07	118.01	114.07
128	E4	501	GTP	O6-C6-C5	-2.06	120.23	124.32
129	3M	502	GDP	C5-C6-N1	2.06	118.01	114.07
129	B5	502	GDP	C5-C6-N1	2.06	118.01	114.07
129	Bs	501	GDP	C5-C6-N1	2.06	118.01	114.07
129	FI	502	GDP	C5-C6-N1	2.06	118.01	114.07
129	L0	501	GDP	C5-C6-N1	2.06	118.01	114.07
128	F3	501	GTP	O6-C6-C5	-2.06	120.23	124.32
128	FG	501	GTP	O2G-PG-O3B	2.06	111.56	104.64
129	Aj	502	GDP	C5-C6-N1	2.06	118.01	114.07
129	Ft	502	GDP	C5-C6-N1	2.06	118.01	114.07
128	O4	502	GTP	O6-C6-C5	-2.06	120.23	124.32
129	Ju	501	GDP	C5-C6-N1	2.06	118.01	114.07
128	1T	501	GTP	O6-C6-C5	-2.06	120.23	124.32
129	Nh	502	GDP	C5-C6-N1	2.06	118.00	114.07
129	Jh	503	GDP	C5-C6-N1	2.06	118.00	114.07
128	1G	501	GTP	O6-C6-C5	-2.06	120.23	124.32
129	F8	502	GDP	C5-C6-N1	2.06	118.00	114.07
128	Z2	501	GTP	O6-C6-C5	-2.06	120.23	124.32
129	Kx	502	GDP	C5-C6-N1	2.06	118.00	114.07
129	Nj	501	GDP	C5-C6-N1	2.06	118.00	114.07
129	Fr	502	GDP	C5-C6-N1	2.06	118.00	114.07
129	J4	502	GDP	C5-C6-N1	2.06	118.00	114.07
129	X4	502	GDP	C5-C6-N1	2.06	118.00	114.07
129	By	503	GDP	C5-C6-N1	2.06	118.00	114.07
128	E6	501	GTP	O4'-C1'-N9	2.06	111.48	108.75
128	V8	501	GTP	O6-C6-C5	-2.06	120.24	124.32
128	1S	501	GTP	O6-C6-C5	-2.06	120.24	124.32
129	ED	502	GDP	C5-C6-N1	2.06	118.00	114.07
128	R8	502	GTP	O2A-PA-O3A	2.06	112.84	107.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	JW	502	GTP	O6-C6-C5	-2.06	120.24	124.32
128	NF	501	GTP	O6-C6-C5	-2.06	120.24	124.32
129	I0	502	GDP	C5-C6-N1	2.06	118.00	114.07
129	Nf	502	GDP	C5-C6-N1	2.06	118.00	114.07
128	KW	501	GTP	O6-C6-C5	-2.06	120.24	124.32
128	LJ	501	GTP	O6-C6-C5	-2.06	120.24	124.32
129	Eh	502	GDP	C5-C6-N1	2.06	118.00	114.07
128	EL	501	GTP	O6-C6-C5	-2.06	120.24	124.32
128	Eh	501	GTP	O6-C6-C5	-2.06	120.24	124.32
128	I0	501	GTP	O6-C6-C5	-2.06	120.24	124.32
128	Mt	501	GTP	O6-C6-C5	-2.06	120.24	124.32
128	Eq	501	GTP	O2B-PB-O3B	2.06	112.83	107.27
128	Kj	502	GTP	O6-C6-C5	-2.06	120.24	124.32
129	3I	502	GDP	C5-C6-N1	2.06	117.99	114.07
129	8J	501	GDP	C5-C6-N1	2.06	117.99	114.07
129	Ij	501	GDP	C5-C6-N1	2.06	117.99	114.07
129	Mi	501	GDP	C5-C6-N1	2.06	117.99	114.07
128	FV	501	GTP	O6-C6-C5	-2.06	120.25	124.32
128	Iy	501	GTP	O6-C6-C5	-2.06	120.25	124.32
128	NH	501	GTP	O2B-PB-O3B	2.06	112.83	107.27
129	Il	501	GDP	C5-C6-N1	2.06	117.99	114.07
128	0M	501	GTP	O6-C6-C5	-2.05	120.25	124.32
128	Df	501	GTP	O6-C6-C5	-2.05	120.25	124.32
128	MH	501	GTP	O6-C6-C5	-2.05	120.25	124.32
128	U6	501	GTP	O6-C6-C5	-2.05	120.25	124.32
129	C8	502	GDP	C5-C6-N1	2.05	117.99	114.07
129	I8	502	GDP	C5-C6-N1	2.05	117.99	114.07
129	L6	502	GDP	C5-C6-N1	2.05	117.99	114.07
128	H8	501	GTP	O6-C6-C5	-2.05	120.25	124.32
128	U9	501	GTP	O6-C6-C5	-2.05	120.25	124.32
129	G6	501	GDP	C5-C6-N1	2.05	117.99	114.07
129	KL	502	GDP	C5-C6-N1	2.05	117.99	114.07
129	N8	502	GDP	C5-C6-N1	2.05	117.99	114.07
129	NU	502	GDP	C5-C6-N1	2.05	117.99	114.07
128	C5	501	GTP	O6-C6-C5	-2.05	120.25	124.32
128	N1	501	GTP	O6-C6-C5	-2.05	120.25	124.32
128	Cr	502	GTP	O6-C6-C5	-2.05	120.25	124.32
128	L4	501	GTP	O6-C6-C5	-2.05	120.25	124.32
128	S9	501	GTP	O6-C6-C5	-2.05	120.25	124.32
128	Ba	501	GTP	O2G-PG-O3B	2.05	111.52	104.64
129	0W	501	GDP	C5-C6-N1	2.05	117.99	114.07
129	1Q	502	GDP	C5-C6-N1	2.05	117.99	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
129	1W	502	GDP	C5-C6-N1	2.05	117.99	114.07
129	Bn	501	GDP	C5-C6-N1	2.05	117.99	114.07
129	H4	501	GDP	C5-C6-N1	2.05	117.99	114.07
129	U6	502	GDP	C5-C6-N1	2.05	117.99	114.07
129	Z6	502	GDP	C5-C6-N1	2.05	117.98	114.07
128	MV	501	GTP	O6-C6-C5	-2.05	120.25	124.32
129	JJ	501	GDP	C5-C6-N1	2.05	117.98	114.07
129	R4	502	GDP	C5-C6-N1	2.05	117.98	114.07
129	G0	502	GDP	C5-C6-N1	2.05	117.98	114.07
128	R4	501	GTP	O6-C6-C5	-2.05	120.25	124.32
129	BI	501	GDP	C5-C6-N1	2.05	117.98	114.07
128	Fe	501	GTP	O6-C6-C5	-2.05	120.25	124.32
128	Ii	501	GTP	O6-C6-C5	-2.05	120.25	124.32
129	R4	502	GDP	C4'-O4'-C1'	2.05	111.80	109.92
129	NJ	502	GDP	C5-C6-N1	2.05	117.98	114.07
129	S0	502	GDP	C5-C6-N1	2.05	117.98	114.07
128	C8	501	GTP	O6-C6-C5	-2.05	120.26	124.32
129	Iy	502	GDP	C5-C6-N1	2.05	117.98	114.07
128	8M	501	GTP	O6-C6-C5	-2.05	120.26	124.32
128	Fc	501	GTP	O6-C6-C5	-2.05	120.26	124.32
128	1C	501	GTP	O6-C6-C5	-2.05	120.26	124.32
129	Bh	502	GDP	C5-C6-N1	2.05	117.98	114.07
129	CZ	502	GDP	C5-C6-N1	2.05	117.98	114.07
128	FT	502	GTP	O6-C6-C5	-2.05	120.26	124.32
129	Cr	501	GDP	C5-C6-N1	2.05	117.98	114.07
129	M6	502	GDP	C5-C6-N1	2.05	117.98	114.07
128	Z3	501	GTP	C4'-O4'-C1'	-2.05	108.05	109.92
128	0F	501	GTP	O6-C6-C5	-2.05	120.26	124.32
129	U4	502	GDP	C5-C6-N1	2.05	117.97	114.07
129	AJ	501	GDP	C5-C6-N1	2.05	117.97	114.07
128	2W	501	GTP	O6-C6-C5	-2.05	120.26	124.32
128	Cv	502	GTP	O6-C6-C5	-2.05	120.26	124.32
128	Di	501	GTP	O6-C6-C5	-2.05	120.26	124.32
128	M0	501	GTP	O6-C6-C5	-2.05	120.26	124.32
129	0A	502	GDP	C5-C6-N1	2.05	117.97	114.07
129	J2	502	GDP	C5-C6-N1	2.05	117.97	114.07
128	Bw	501	GTP	O6-C6-C5	-2.05	120.27	124.32
129	M4	502	GDP	C5-C6-N1	2.05	117.97	114.07
129	MT	502	GDP	C5-C6-N1	2.05	117.97	114.07
129	P8	502	GDP	C5-C6-N1	2.05	117.97	114.07
128	0Y	501	GTP	O6-C6-C5	-2.04	120.27	124.32
129	Ah	501	GDP	C5-C6-N1	2.04	117.97	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
129	R2	503	GDP	C5-C6-N1	2.04	117.97	114.07
128	T2	501	GTP	O6-C6-C5	-2.04	120.27	124.32
129	Di	502	GDP	C5-C6-N1	2.04	117.97	114.07
129	JW	503	GDP	C5-C6-N1	2.04	117.97	114.07
129	H8	503	GDP	C5-C6-N1	2.04	117.97	114.07
128	E0	502	GTP	O6-C6-C5	-2.04	120.27	124.32
129	3C	502	GDP	C5-C6-N1	2.04	117.97	114.07
129	3G	502	GDP	C5-C6-N1	2.04	117.97	114.07
129	MG	502	GDP	C5-C6-N1	2.04	117.97	114.07
129	N6	502	GDP	C5-C6-N1	2.04	117.97	114.07
129	G4	501	GDP	C5-C6-N1	2.04	117.96	114.07
128	Bf	502	GTP	O6-C6-C5	-2.04	120.27	124.32
128	NW	501	GTP	O6-C6-C5	-2.04	120.27	124.32
129	0W	501	GDP	C4'-O4'-C1'	2.04	111.79	109.92
128	FQ	501	GTP	O6-C6-C5	-2.04	120.28	124.32
128	Fk	501	GTP	O6-C6-C5	-2.04	120.28	124.32
129	0G	501	GDP	O3B-PB-O2B	2.04	115.45	107.80
129	F2	501	GDP	C5-C6-N1	2.04	117.96	114.07
129	R0	502	GDP	C5-C6-N1	2.04	117.96	114.07
129	0S	501	GDP	C5-C6-N1	2.04	117.96	114.07
129	Ay	503	GDP	C5-C6-N1	2.04	117.96	114.07
128	2A	501	GTP	O6-C6-C5	-2.04	120.28	124.32
128	O2	501	GTP	O6-C6-C5	-2.04	120.28	124.32
129	D2	501	GDP	C5-C6-N1	2.04	117.96	114.07
129	P4	503	GDP	C5-C6-N1	2.04	117.96	114.07
129	D4	501	GDP	C5-C6-N1	2.04	117.96	114.07
129	KJ	501	GDP	C5-C6-N1	2.04	117.96	114.07
129	Kj	503	GDP	C5-C6-N1	2.04	117.96	114.07
129	O6	502	GDP	C5-C6-N1	2.04	117.96	114.07
128	H3	501	GTP	O6-C6-C5	-2.04	120.28	124.32
129	E4	502	GDP	C5-C6-N1	2.04	117.95	114.07
129	T2	502	GDP	C5-C6-N1	2.04	117.95	114.07
129	GF	502	GDP	C5-C6-N1	2.04	117.95	114.07
129	1S	502	GDP	C5-C6-N1	2.04	117.95	114.07
129	8H	502	GDP	C5-C6-N1	2.04	117.95	114.07
129	E2	501	GDP	C5-C6-N1	2.04	117.95	114.07
128	3A	501	GTP	O6-C6-C5	-2.04	120.29	124.32
129	Eu	502	GDP	C5-C6-N1	2.04	117.95	114.07
129	V8	502	GDP	C5-C6-N1	2.04	117.95	114.07
129	1M	501	GDP	C5-C6-N1	2.03	117.95	114.07
128	CZ	501	GTP	O6-C6-C5	-2.03	120.29	124.32
128	Fg	501	GTP	O6-C6-C5	-2.03	120.29	124.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
129	Ck	501	GDP	C5-C6-N1	2.03	117.95	114.07
128	2Y	501	GTP	O6-C6-C5	-2.03	120.29	124.32
129	0M	502	GDP	C5-C6-N1	2.03	117.95	114.07
129	DV	502	GDP	C5-C6-N1	2.03	117.95	114.07
129	K6	502	GDP	C5-C6-N1	2.03	117.95	114.07
129	IK	502	GDP	C5-C6-N1	2.03	117.95	114.07
128	G3	502	GTP	O2G-PG-O3B	2.03	111.45	104.64
129	3S	502	GDP	C5-C6-N1	2.03	117.95	114.07
129	Es	502	GDP	C5-C6-N1	2.03	117.95	114.07
128	M7	501	GTP	O6-C6-C5	-2.03	120.29	124.32
129	M0	502	GDP	C5-C6-N1	2.03	117.94	114.07
128	Mu	501	GTP	O6-C6-C5	-2.03	120.29	124.32
129	CT	501	GDP	C5-C6-N1	2.03	117.94	114.07
128	ED	501	GTP	O6-C6-C5	-2.03	120.30	124.32
129	F0	502	GDP	C5-C6-N1	2.03	117.94	114.07
129	F8	502	GDP	C2'-C3'-C4'	2.03	106.53	102.61
129	Kv	503	GDP	C5-C6-N1	2.03	117.94	114.07
128	Kl	501	GTP	O6-C6-C5	-2.03	120.30	124.32
128	3P	501	GTP	O6-C6-C5	-2.03	120.30	124.32
129	Ed	502	GDP	C2'-C3'-C4'	2.03	106.53	102.61
129	EY	502	GDP	C5-C6-N1	2.03	117.94	114.07
129	P6	503	GDP	C5-C6-N1	2.03	117.94	114.07
129	S8	502	GDP	C5-C6-N1	2.03	117.94	114.07
128	1N	501	GTP	O6-C6-C5	-2.03	120.30	124.32
129	BY	502	GDP	C2'-C3'-C4'	2.03	106.53	102.61
129	2Q	502	GDP	C5-C6-N1	2.03	117.94	114.07
128	X4	501	GTP	O2G-PG-O3B	2.03	111.43	104.64
129	1O	501	GDP	C5-C6-N1	2.03	117.94	114.07
129	Y2	501	GDP	C5-C6-N1	2.03	117.94	114.07
128	Bu	501	GTP	O2G-PG-O3B	2.03	111.43	104.64
129	8N	501	GDP	C5-C6-N1	2.03	117.93	114.07
128	N6	501	GTP	O6-C6-C5	-2.03	120.31	124.32
128	Ci	501	GTP	O2G-PG-O3B	2.03	111.43	104.64
128	CK	501	GTP	O6-C6-C5	-2.02	120.31	124.32
129	NH	502	GDP	C5-C6-N1	2.02	117.93	114.07
129	NW	502	GDP	C5-C6-N1	2.02	117.93	114.07
129	P8	502	GDP	O3B-PB-O3A	2.02	111.42	104.64
129	0I	503	GDP	C5-C6-N1	2.02	117.93	114.07
129	2E	502	GDP	C5-C6-N1	2.02	117.93	114.07
129	JL	501	GDP	C5-C6-N1	2.02	117.93	114.07
129	8L	502	GDP	C5-C6-N1	2.02	117.93	114.07
128	CI	501	GTP	O6-C6-C5	-2.02	120.31	124.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
129	Cm	502	GDP	O3B-PB-O3A	2.02	111.42	104.64
128	JX	501	GTP	O6-C6-C5	-2.02	120.31	124.32
128	3I	501	GTP	O6-C6-C5	-2.02	120.31	124.32
129	A7	501	GDP	C5-C6-N1	2.02	117.93	114.07
129	BO	501	GDP	C5-C6-N1	2.02	117.93	114.07
129	1E	501	GDP	O2A-PA-O3A	2.02	112.74	107.27
128	EQ	501	GTP	O6-C6-C5	-2.02	120.31	124.32
129	C4	501	GDP	C5-C6-N1	2.02	117.92	114.07
129	FP	501	GDP	C5-C6-N1	2.02	117.92	114.07
129	Q2	502	GDP	C5-C6-N1	2.02	117.92	114.07
129	M8	501	GDP	C5-C6-N1	2.02	117.92	114.07
129	O4	503	GDP	C5-C6-N1	2.02	117.92	114.07
128	LU	501	GTP	O6-C6-C5	-2.02	120.32	124.32
128	KY	501	GTP	O6-C6-C5	-2.02	120.32	124.32
129	0K	502	GDP	C5-C6-N1	2.02	117.92	114.07
128	U4	501	GTP	O6-C6-C5	-2.02	120.32	124.32
128	BY	501	GTP	O2G-PG-O3B	2.02	111.41	104.64
128	Ao	501	GTP	O2A-PA-O3A	2.02	112.73	107.27
128	1W	501	GTP	O6-C6-C5	-2.02	120.32	124.32
128	M4	501	GTP	O6-C6-C5	-2.02	120.32	124.32
129	BY	502	GDP	C5-C6-N1	2.02	117.92	114.07
128	IL	501	GTP	O2A-PA-O3A	2.02	112.73	107.27
128	1Q	501	GTP	O6-C6-C5	-2.02	120.32	124.32
128	Ba	501	GTP	O6-C6-C5	-2.02	120.32	124.32
128	K9	501	GTP	O6-C6-C5	-2.02	120.32	124.32
129	1E	501	GDP	O3B-PB-O3A	2.02	111.40	104.64
129	Iw	502	GDP	C5-C6-N1	2.02	117.92	114.07
128	KI	501	GTP	O6-C6-C5	-2.02	120.32	124.32
128	Y4	501	GTP	O6-C6-C5	-2.02	120.32	124.32
129	Mg	502	GDP	C5-C6-N1	2.02	117.92	114.07
128	ED	501	GTP	O2G-PG-O3B	2.01	111.39	104.64
128	1A	501	GTP	O6-C6-C5	-2.01	120.33	124.32
128	O0	501	GTP	O6-C6-C5	-2.01	120.33	124.32
129	LH	502	GDP	C5-C6-N1	2.01	117.91	114.07
128	FW	501	GTP	O6-C6-C5	-2.01	120.34	124.32
128	Jl	502	GTP	O2B-PB-O3B	2.01	112.70	107.27
129	W0	502	GDP	C5-C6-N1	2.01	117.90	114.07
129	0Q	503	GDP	C5-C6-N1	2.01	117.90	114.07
129	Bj	501	GDP	C5-C6-N1	2.01	117.90	114.07
129	Eq	502	GDP	C5-C6-N1	2.01	117.90	114.07
128	Cz	501	GTP	O6-C6-C5	-2.01	120.34	124.32
129	MV	502	GDP	C5-C6-N1	2.00	117.89	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
128	CR	502	GTP	O6-C6-C5	-2.00	120.35	124.32
128	Ed	501	GTP	O6-C6-C5	-2.00	120.35	124.32
128	F0	501	GTP	O6-C6-C5	-2.00	120.35	124.32
129	Lu	502	GDP	C2'-C3'-C4'	2.00	106.48	102.61
128	S5	501	GTP	O6-C6-C5	-2.00	120.36	124.32

There are no chirality outliers.

All (3236) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
128	0A	501	GTP	C5'-O5'-PA-O3A
128	0A	501	GTP	C5'-O5'-PA-O2A
128	0C	501	GTP	C5'-O5'-PA-O3A
128	0C	501	GTP	C5'-O5'-PA-O2A
128	0F	501	GTP	PB-O3A-PA-O5'
128	0F	501	GTP	C5'-O5'-PA-O3A
128	0F	501	GTP	C5'-O5'-PA-O2A
128	0I	502	GTP	C5'-O5'-PA-O3A
128	0I	502	GTP	C5'-O5'-PA-O1A
128	0I	502	GTP	C5'-O5'-PA-O2A
128	0K	501	GTP	PB-O3A-PA-O5'
128	0M	501	GTP	PB-O3A-PA-O5'
128	0M	501	GTP	C5'-O5'-PA-O3A
128	0M	501	GTP	C5'-O5'-PA-O1A
128	0M	501	GTP	C5'-O5'-PA-O2A
128	0O	501	GTP	PB-O3B-PG-O2G
128	0R	502	GTP	C5'-O5'-PA-O3A
128	0R	502	GTP	C5'-O5'-PA-O1A
128	0R	502	GTP	C5'-O5'-PA-O2A
128	0V	501	GTP	C5'-O5'-PA-O3A
128	0V	501	GTP	C5'-O5'-PA-O2A
128	0V	501	GTP	O4'-C4'-C5'-O5'
128	0Y	501	GTP	PB-O3B-PG-O2G
128	1A	501	GTP	PB-O3B-PG-O2G
128	1H	501	GTP	C5'-O5'-PA-O3A
128	1H	501	GTP	C5'-O5'-PA-O2A
128	1L	501	GTP	PB-O3A-PA-O5'
128	1L	501	GTP	C5'-O5'-PA-O3A
128	1L	501	GTP	C5'-O5'-PA-O2A
128	1N	501	GTP	C5'-O5'-PA-O3A
128	1N	501	GTP	C5'-O5'-PA-O2A
128	1Q	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
128	1Q	501	GTP	C5'-O5'-PA-O2A
128	1S	501	GTP	C5'-O5'-PA-O3A
128	1S	501	GTP	C5'-O5'-PA-O1A
128	1S	501	GTP	C5'-O5'-PA-O2A
128	1T	501	GTP	PB-O3A-PA-O5'
128	1T	501	GTP	C5'-O5'-PA-O3A
128	1T	501	GTP	C5'-O5'-PA-O1A
128	1T	501	GTP	C5'-O5'-PA-O2A
128	1X	501	GTP	C5'-O5'-PA-O3A
128	1X	501	GTP	C5'-O5'-PA-O1A
128	1X	501	GTP	C5'-O5'-PA-O2A
128	2A	501	GTP	C5'-O5'-PA-O3A
128	2A	501	GTP	C5'-O5'-PA-O1A
128	2A	501	GTP	C5'-O5'-PA-O2A
128	2C	501	GTP	PB-O3B-PG-O2G
128	2I	501	GTP	PB-O3B-PG-O2G
128	2K	501	GTP	C5'-O5'-PA-O3A
128	2K	501	GTP	C5'-O5'-PA-O1A
128	2K	501	GTP	C5'-O5'-PA-O2A
128	2L	501	GTP	PB-O3B-PG-O2G
128	2Q	501	GTP	PB-O3A-PA-O5'
128	2Q	501	GTP	C5'-O5'-PA-O3A
128	2Q	501	GTP	C5'-O5'-PA-O2A
128	2Q	501	GTP	O4'-C4'-C5'-O5'
128	2S	501	GTP	C5'-O5'-PA-O3A
128	2U	501	GTP	PB-O3A-PA-O5'
128	2U	501	GTP	C5'-O5'-PA-O3A
128	2U	501	GTP	C5'-O5'-PA-O1A
128	2U	501	GTP	C5'-O5'-PA-O2A
128	2W	501	GTP	C5'-O5'-PA-O3A
128	2W	501	GTP	C5'-O5'-PA-O1A
128	2W	501	GTP	C5'-O5'-PA-O2A
128	2Y	501	GTP	PB-O3A-PA-O5'
128	2Y	501	GTP	C5'-O5'-PA-O3A
128	2Y	501	GTP	C5'-O5'-PA-O2A
128	3A	501	GTP	C5'-O5'-PA-O3A
128	3A	501	GTP	C5'-O5'-PA-O1A
128	3A	501	GTP	C5'-O5'-PA-O2A
128	3C	501	GTP	C5'-O5'-PA-O3A
128	3C	501	GTP	C5'-O5'-PA-O1A
128	3G	501	GTP	C5'-O5'-PA-O3A
128	3G	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
128	3I	501	GTP	C5'-O5'-PA-O3A
128	3I	501	GTP	C5'-O5'-PA-O1A
128	3I	501	GTP	C5'-O5'-PA-O2A
128	3K	501	GTP	C5'-O5'-PA-O3A
128	3K	501	GTP	C5'-O5'-PA-O1A
128	3K	501	GTP	C5'-O5'-PA-O2A
128	3M	501	GTP	C5'-O5'-PA-O3A
128	3M	501	GTP	C5'-O5'-PA-O1A
128	3M	501	GTP	C5'-O5'-PA-O2A
128	3O	501	GTP	C5'-O5'-PA-O3A
128	3O	501	GTP	C5'-O5'-PA-O1A
128	3P	501	GTP	PB-O3B-PG-O2G
128	3P	501	GTP	C5'-O5'-PA-O3A
128	3P	501	GTP	C5'-O5'-PA-O1A
128	3P	501	GTP	C5'-O5'-PA-O2A
128	3P	501	GTP	O4'-C4'-C5'-O5'
128	3P	501	GTP	C3'-C4'-C5'-O5'
128	3S	501	GTP	C5'-O5'-PA-O3A
128	3S	501	GTP	C5'-O5'-PA-O1A
128	8H	501	GTP	PB-O3B-PG-O2G
128	8H	501	GTP	PB-O3A-PA-O5'
128	8H	501	GTP	C5'-O5'-PA-O3A
128	8I	501	GTP	C5'-O5'-PA-O3A
128	8I	501	GTP	C5'-O5'-PA-O1A
128	8I	501	GTP	C5'-O5'-PA-O2A
128	8L	501	GTP	PB-O3B-PG-O2G
128	8M	501	GTP	C5'-O5'-PA-O3A
128	8M	501	GTP	C5'-O5'-PA-O2A
128	A1	501	GTP	C5'-O5'-PA-O3A
128	A1	501	GTP	C5'-O5'-PA-O1A
128	A1	501	GTP	C5'-O5'-PA-O2A
128	A4	501	GTP	C5'-O5'-PA-O3A
128	A4	501	GTP	C5'-O5'-PA-O2A
128	AT	501	GTP	C5'-O5'-PA-O3A
128	AT	501	GTP	C5'-O5'-PA-O1A
128	AT	501	GTP	C5'-O5'-PA-O2A
128	Ag	501	GTP	C5'-O5'-PA-O3A
128	Ag	501	GTP	C5'-O5'-PA-O1A
128	Ag	501	GTP	C5'-O5'-PA-O2A
128	Aj	501	GTP	PB-O3B-PG-O2G
128	Ak	501	GTP	C5'-O5'-PA-O3A
128	Ak	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
128	An	501	GTP	PB-O3A-PA-O5'
128	An	501	GTP	C5'-O5'-PA-O3A
128	An	501	GTP	C5'-O5'-PA-O1A
128	An	501	GTP	C5'-O5'-PA-O2A
128	At	501	GTP	C5'-O5'-PA-O3A
128	At	501	GTP	C5'-O5'-PA-O2A
128	Av	501	GTP	C5'-O5'-PA-O3A
128	Av	501	GTP	C5'-O5'-PA-O1A
128	Av	501	GTP	C5'-O5'-PA-O2A
128	Ay	502	GTP	C5'-O5'-PA-O3A
128	Ay	502	GTP	C5'-O5'-PA-O1A
128	Ay	502	GTP	C5'-O5'-PA-O2A
128	B0	501	GTP	PB-O3A-PA-O5'
128	B0	501	GTP	C5'-O5'-PA-O3A
128	B2	501	GTP	C5'-O5'-PA-O3A
128	B2	501	GTP	C5'-O5'-PA-O1A
128	B2	501	GTP	C5'-O5'-PA-O2A
128	BB	501	GTP	C5'-O5'-PA-O3A
128	BB	501	GTP	C5'-O5'-PA-O2A
128	BG	501	GTP	C5'-O5'-PA-O3A
128	BH	501	GTP	C5'-O5'-PA-O3A
128	BH	501	GTP	C5'-O5'-PA-O1A
128	BH	501	GTP	C5'-O5'-PA-O2A
128	BJ	501	GTP	C5'-O5'-PA-O3A
128	BJ	501	GTP	C5'-O5'-PA-O2A
128	BL	501	GTP	C5'-O5'-PA-O3A
128	BL	501	GTP	C5'-O5'-PA-O2A
128	BN	501	GTP	PB-O3B-PG-O2G
128	BN	501	GTP	C5'-O5'-PA-O3A
128	BN	501	GTP	C5'-O5'-PA-O1A
128	BN	501	GTP	C5'-O5'-PA-O2A
128	BU	501	GTP	C5'-O5'-PA-O3A
128	BU	501	GTP	C5'-O5'-PA-O1A
128	BU	501	GTP	C5'-O5'-PA-O2A
128	BW	501	GTP	C5'-O5'-PA-O3A
128	BW	501	GTP	C5'-O5'-PA-O2A
128	BY	501	GTP	PB-O3B-PG-O2G
128	BY	501	GTP	PB-O3B-PG-O3G
128	Bb	501	GTP	C5'-O5'-PA-O3A
128	Bb	501	GTP	C5'-O5'-PA-O2A
128	Bh	501	GTP	PB-O3A-PA-O5'
128	Bh	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
128	Bh	501	GTP	C5'-O5'-PA-O2A
128	Bi	501	GTP	C5'-O5'-PA-O3A
128	Bi	501	GTP	C5'-O5'-PA-O2A
128	Bo	501	GTP	C5'-O5'-PA-O3A
128	Bo	501	GTP	C5'-O5'-PA-O2A
128	Bu	501	GTP	PB-O3B-PG-O2G
128	Bu	501	GTP	C5'-O5'-PA-O3A
128	Bu	501	GTP	C5'-O5'-PA-O2A
128	Bw	501	GTP	C5'-O5'-PA-O3A
128	Bw	501	GTP	C5'-O5'-PA-O1A
128	Bw	501	GTP	C5'-O5'-PA-O2A
128	By	502	GTP	C5'-O5'-PA-O3A
128	By	502	GTP	C5'-O5'-PA-O1A
128	By	502	GTP	C5'-O5'-PA-O2A
128	Bz	501	GTP	C5'-O5'-PA-O3A
128	Bz	501	GTP	C5'-O5'-PA-O1A
128	Bz	501	GTP	C5'-O5'-PA-O2A
128	C0	501	GTP	C5'-O5'-PA-O3A
128	C0	501	GTP	C5'-O5'-PA-O2A
128	C1	501	GTP	C5'-O5'-PA-O3A
128	C1	501	GTP	C5'-O5'-PA-O1A
128	C1	501	GTP	C5'-O5'-PA-O2A
128	C4	502	GTP	C5'-O5'-PA-O3A
128	C4	502	GTP	C5'-O5'-PA-O1A
128	C4	502	GTP	C5'-O5'-PA-O2A
128	C5	501	GTP	C5'-O5'-PA-O3A
128	C5	501	GTP	C5'-O5'-PA-O2A
128	C9	501	GTP	C5'-O5'-PA-O3A
128	C9	501	GTP	C5'-O5'-PA-O2A
128	CE	502	GTP	PB-O3A-PA-O5'
128	CE	502	GTP	C5'-O5'-PA-O3A
128	CE	502	GTP	C5'-O5'-PA-O2A
128	CG	501	GTP	C5'-O5'-PA-O3A
128	CG	501	GTP	C5'-O5'-PA-O1A
128	CG	501	GTP	C5'-O5'-PA-O2A
128	CI	501	GTP	PB-O3A-PA-O5'
128	CI	501	GTP	C5'-O5'-PA-O3A
128	CI	501	GTP	C5'-O5'-PA-O1A
128	CI	501	GTP	C5'-O5'-PA-O2A
128	CK	501	GTP	C5'-O5'-PA-O3A
128	CK	501	GTP	C5'-O5'-PA-O2A
128	CM	502	GTP	PB-O3B-PG-O2G

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Mol	Chain	Res	Type	Atoms
128	CM	502	GTP	PB-O3A-PA-O5'
128	CM	502	GTP	C5'-O5'-PA-O3A
128	CM	502	GTP	C5'-O5'-PA-O2A
128	CR	502	GTP	PB-O3B-PG-O2G
128	CR	502	GTP	PB-O3A-PA-O5'
128	CZ	501	GTP	C5'-O5'-PA-O3A
128	CZ	501	GTP	C5'-O5'-PA-O2A
128	Ce	502	GTP	C5'-O5'-PA-O3A
128	Ce	502	GTP	C5'-O5'-PA-O1A
128	Ce	502	GTP	C5'-O5'-PA-O2A
128	Ce	502	GTP	O4'-C4'-C5'-O5'
128	Cg	501	GTP	C5'-O5'-PA-O3A
128	Cg	501	GTP	C5'-O5'-PA-O2A
128	Ci	501	GTP	PB-O3B-PG-O2G
128	Ci	501	GTP	PB-O3A-PA-O5'
128	Ci	501	GTP	C5'-O5'-PA-O3A
128	Cj	501	GTP	C5'-O5'-PA-O3A
128	Cj	501	GTP	C5'-O5'-PA-O2A
128	Cm	501	GTP	PB-O3A-PA-O5'
128	Cm	501	GTP	C5'-O5'-PA-O3A
128	Cm	501	GTP	C5'-O5'-PA-O1A
128	Cm	501	GTP	C5'-O5'-PA-O2A
128	Cm	501	GTP	O4'-C4'-C5'-O5'
128	Ct	501	GTP	C5'-O5'-PA-O3A
128	Ct	501	GTP	C5'-O5'-PA-O1A
128	Ct	501	GTP	C5'-O5'-PA-O2A
128	Cv	502	GTP	PB-O3B-PG-O2G
128	Cx	501	GTP	C5'-O5'-PA-O3A
128	Cx	501	GTP	C5'-O5'-PA-O2A
128	Cz	501	GTP	PB-O3B-PG-O2G
128	D3	501	GTP	C5'-O5'-PA-O3A
128	D3	501	GTP	C5'-O5'-PA-O2A
128	D5	501	GTP	C5'-O5'-PA-O3A
128	D5	501	GTP	C5'-O5'-PA-O1A
128	D5	501	GTP	C5'-O5'-PA-O2A
128	D7	501	GTP	PB-O3B-PG-O2G
128	D7	501	GTP	C4'-C5'-O5'-PA
128	DE	501	GTP	C5'-O5'-PA-O3A
128	DE	501	GTP	C5'-O5'-PA-O1A
128	DE	501	GTP	C5'-O5'-PA-O2A
128	DG	501	GTP	C5'-O5'-PA-O3A
128	DG	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
128	DH	501	GTP	C5'-O5'-PA-O3A
128	DH	501	GTP	C5'-O5'-PA-O1A
128	DK	501	GTP	C5'-O5'-PA-O3A
128	DK	501	GTP	C5'-O5'-PA-O1A
128	DM	501	GTP	C5'-O5'-PA-O3A
128	DM	501	GTP	C5'-O5'-PA-O1A
128	DR	501	GTP	PB-O3B-PG-O2G
128	DR	501	GTP	PB-O3B-PG-O3G
128	DR	501	GTP	PB-O3A-PA-O5'
128	DR	501	GTP	C5'-O5'-PA-O3A
128	DR	501	GTP	C5'-O5'-PA-O2A
128	DT	501	GTP	PB-O3A-PA-O5'
128	DT	501	GTP	C5'-O5'-PA-O3A
128	DT	501	GTP	C5'-O5'-PA-O1A
128	DT	501	GTP	C5'-O5'-PA-O2A
128	DV	501	GTP	PB-O3A-PA-O5'
128	DX	501	GTP	PB-O3A-PA-O5'
128	DX	501	GTP	C5'-O5'-PA-O3A
128	DX	501	GTP	C5'-O5'-PA-O1A
128	DX	501	GTP	C5'-O5'-PA-O2A
128	DZ	501	GTP	PB-O3A-PA-O5'
128	DZ	501	GTP	C5'-O5'-PA-O3A
128	DZ	501	GTP	C5'-O5'-PA-O1A
128	DZ	501	GTP	C5'-O5'-PA-O2A
128	De	501	GTP	C5'-O5'-PA-O3A
128	De	501	GTP	C5'-O5'-PA-O2A
128	Df	501	GTP	PB-O3A-PA-O5'
128	Df	501	GTP	C5'-O5'-PA-O3A
128	Df	501	GTP	C5'-O5'-PA-O1A
128	Df	501	GTP	C5'-O5'-PA-O2A
128	Di	501	GTP	C5'-O5'-PA-O3A
128	Di	501	GTP	C5'-O5'-PA-O1A
128	Di	501	GTP	C5'-O5'-PA-O2A
128	Dk	501	GTP	C5'-O5'-PA-O3A
128	Dk	501	GTP	C5'-O5'-PA-O1A
128	Dk	501	GTP	C5'-O5'-PA-O2A
128	Dm	501	GTP	C5'-O5'-PA-O3A
128	Dm	501	GTP	C5'-O5'-PA-O1A
128	Dm	501	GTP	C5'-O5'-PA-O2A
128	Dr	501	GTP	C5'-O5'-PA-O3A
128	Dr	501	GTP	C5'-O5'-PA-O1A
128	Dr	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
128	Dt	501	GTP	C5'-O5'-PA-O3A
128	Dt	501	GTP	C5'-O5'-PA-O2A
128	Du	501	GTP	C5'-O5'-PA-O3A
128	Du	501	GTP	C5'-O5'-PA-O1A
128	Du	501	GTP	C5'-O5'-PA-O2A
128	Dw	501	GTP	PB-O3B-PG-O3G
128	Dw	501	GTP	PB-O3A-PA-O5'
128	Dw	501	GTP	C5'-O5'-PA-O3A
128	Dw	501	GTP	C5'-O5'-PA-O1A
128	Dw	501	GTP	C5'-O5'-PA-O2A
128	Dz	501	GTP	PB-O3B-PG-O2G
128	Dz	501	GTP	PB-O3B-PG-O3G
128	E0	502	GTP	C5'-O5'-PA-O3A
128	E0	502	GTP	C5'-O5'-PA-O1A
128	E0	502	GTP	C5'-O5'-PA-O2A
128	E1	501	GTP	C5'-O5'-PA-O3A
128	E1	501	GTP	C5'-O5'-PA-O2A
128	E4	501	GTP	C5'-O5'-PA-O3A
128	E4	501	GTP	C5'-O5'-PA-O1A
128	E4	501	GTP	C5'-O5'-PA-O2A
128	E6	501	GTP	C5'-O5'-PA-O3A
128	E6	501	GTP	C5'-O5'-PA-O2A
128	E8	501	GTP	PB-O3B-PG-O2G
128	E8	501	GTP	C5'-O5'-PA-O3A
128	ED	501	GTP	PB-O3A-PA-O5'
128	ED	501	GTP	C5'-O5'-PA-O3A
128	ED	501	GTP	C5'-O5'-PA-O2A
128	EF	501	GTP	C5'-O5'-PA-O3A
128	EF	501	GTP	C5'-O5'-PA-O1A
128	EF	501	GTP	C5'-O5'-PA-O2A
128	EF	501	GTP	O4'-C4'-C5'-O5'
128	EH	501	GTP	C5'-O5'-PA-O3A
128	EH	501	GTP	C5'-O5'-PA-O1A
128	EH	501	GTP	C5'-O5'-PA-O2A
128	EH	501	GTP	O4'-C4'-C5'-O5'
128	EI	501	GTP	C5'-O5'-PA-O3A
128	EI	501	GTP	C5'-O5'-PA-O1A
128	EI	501	GTP	C5'-O5'-PA-O2A
128	EL	501	GTP	C5'-O5'-PA-O1A
128	EQ	501	GTP	PB-O3A-PA-O5'
128	EQ	501	GTP	C5'-O5'-PA-O1A
128	ER	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
128	ER	501	GTP	C5'-O5'-PA-O1A
128	EU	501	GTP	C5'-O5'-PA-O3A
128	EU	501	GTP	C5'-O5'-PA-O2A
128	EV	501	GTP	C5'-O5'-PA-O3A
128	EV	501	GTP	C5'-O5'-PA-O2A
128	EY	501	GTP	PB-O3B-PG-O2G
128	EY	501	GTP	PB-O3A-PA-O5'
128	Ed	501	GTP	O4'-C4'-C5'-O5'
128	Ee	501	GTP	PB-O3B-PG-O2G
128	Ee	501	GTP	PB-O3A-PA-O5'
128	Ee	501	GTP	C5'-O5'-PA-O1A
128	Eh	501	GTP	PB-O3A-PA-O5'
128	Eh	501	GTP	C5'-O5'-PA-O3A
128	Eh	501	GTP	C5'-O5'-PA-O2A
128	Ei	501	GTP	PB-O3B-PG-O2G
128	Ei	501	GTP	C5'-O5'-PA-O3A
128	Ei	501	GTP	C5'-O5'-PA-O2A
128	El	501	GTP	C5'-O5'-PA-O3A
128	El	501	GTP	C5'-O5'-PA-O2A
128	Eq	501	GTP	PB-O3A-PA-O5'
128	Eq	501	GTP	C5'-O5'-PA-O3A
128	Es	501	GTP	PB-O3A-PA-O5'
128	Es	501	GTP	C5'-O5'-PA-O3A
128	Es	501	GTP	C5'-O5'-PA-O2A
128	Eu	501	GTP	PB-O3A-PA-O5'
128	Eu	501	GTP	C5'-O5'-PA-O3A
128	Eu	501	GTP	C5'-O5'-PA-O1A
128	Eu	501	GTP	C5'-O5'-PA-O2A
128	Ew	501	GTP	PB-O3B-PG-O2G
128	Ew	501	GTP	PB-O3B-PG-O3G
128	Ew	501	GTP	C5'-O5'-PA-O3A
128	Ew	501	GTP	C5'-O5'-PA-O2A
128	F1	501	GTP	C5'-O5'-PA-O3A
128	F1	501	GTP	C5'-O5'-PA-O2A
128	F3	501	GTP	C5'-O5'-PA-O3A
128	F3	501	GTP	C5'-O5'-PA-O2A
128	F5	501	GTP	C5'-O5'-PA-O3A
128	F5	501	GTP	C5'-O5'-PA-O2A
128	F8	501	GTP	PB-O3B-PG-O2G
128	F8	501	GTP	PB-O3B-PG-O3G
128	FE	501	GTP	C5'-O5'-PA-O3A
128	FE	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
128	FG	501	GTP	PB-O3B-PG-O2G
128	FG	501	GTP	PB-O3A-PA-O5'
128	FG	501	GTP	C5'-O5'-PA-O3A
128	FG	501	GTP	C5'-O5'-PA-O2A
128	FI	501	GTP	PB-O3A-PA-O5'
128	FI	501	GTP	C5'-O5'-PA-O3A
128	FI	501	GTP	C5'-O5'-PA-O2A
128	FQ	501	GTP	C5'-O5'-PA-O3A
128	FQ	501	GTP	C5'-O5'-PA-O2A
128	FT	502	GTP	C5'-O5'-PA-O3A
128	FT	502	GTP	C5'-O5'-PA-O2A
128	FV	501	GTP	C5'-O5'-PA-O3A
128	FV	501	GTP	C5'-O5'-PA-O1A
128	FV	501	GTP	C5'-O5'-PA-O2A
128	FW	501	GTP	PB-O3A-PA-O5'
128	FW	501	GTP	C5'-O5'-PA-O3A
128	FW	501	GTP	C5'-O5'-PA-O1A
128	FW	501	GTP	C5'-O5'-PA-O2A
128	Fe	501	GTP	PB-O3B-PG-O2G
128	Fe	501	GTP	PB-O3B-PG-O3G
128	Fg	501	GTP	PB-O3B-PG-O2G
128	Fg	501	GTP	PB-O3B-PG-O3G
128	Fi	501	GTP	PB-O3B-PG-O2G
128	Fi	501	GTP	PB-O3B-PG-O3G
128	Fl	501	GTP	PB-O3B-PG-O2G
128	Fp	501	GTP	C5'-O5'-PA-O3A
128	Fp	501	GTP	C5'-O5'-PA-O1A
128	Fp	501	GTP	C5'-O5'-PA-O2A
128	Fr	501	GTP	PB-O3A-PA-O5'
128	Fr	501	GTP	C5'-O5'-PA-O3A
128	Fr	501	GTP	C5'-O5'-PA-O2A
128	Ft	501	GTP	C5'-O5'-PA-O3A
128	Ft	501	GTP	C5'-O5'-PA-O1A
128	Ft	501	GTP	C5'-O5'-PA-O2A
128	Fv	501	GTP	PB-O3B-PG-O2G
128	Fv	501	GTP	PB-O3B-PG-O3G
128	Fv	501	GTP	C5'-O5'-PA-O3A
128	Fx	501	GTP	PB-O3A-PA-O5'
128	Fx	501	GTP	C5'-O5'-PA-O3A
128	Fx	501	GTP	C5'-O5'-PA-O1A
128	Fx	501	GTP	C5'-O5'-PA-O2A
128	Fx	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
128	G0	501	GTP	PB-O3B-PG-O2G
128	G0	501	GTP	C5'-O5'-PA-O1A
128	G1	501	GTP	C5'-O5'-PA-O3A
128	G1	501	GTP	C5'-O5'-PA-O2A
128	G7	501	GTP	PB-O3A-PA-O5'
128	G7	501	GTP	C5'-O5'-PA-O3A
128	G7	501	GTP	C5'-O5'-PA-O2A
128	GB	501	GTP	PB-O3B-PG-O2G
128	GB	501	GTP	PB-O3B-PG-O3G
128	GB	501	GTP	C5'-O5'-PA-O3A
128	GB	501	GTP	C5'-O5'-PA-O2A
128	GD	501	GTP	C5'-O5'-PA-O3A
128	GD	501	GTP	C5'-O5'-PA-O1A
128	GF	501	GTP	PB-O3A-PA-O5'
128	GF	501	GTP	C5'-O5'-PA-O3A
128	GF	501	GTP	C5'-O5'-PA-O1A
128	GF	501	GTP	C5'-O5'-PA-O2A
128	GH	501	GTP	C5'-O5'-PA-O3A
128	GH	501	GTP	C5'-O5'-PA-O1A
128	GH	501	GTP	C5'-O5'-PA-O2A
128	GI	501	GTP	C5'-O5'-PA-O3A
128	GI	501	GTP	C5'-O5'-PA-O2A
128	GI	501	GTP	O4'-C4'-C5'-O5'
128	H2	501	GTP	PB-O3A-PA-O5'
128	H2	501	GTP	C5'-O5'-PA-O3A
128	H2	501	GTP	C5'-O5'-PA-O2A
128	H3	501	GTP	C5'-O5'-PA-O3A
128	H3	501	GTP	C5'-O5'-PA-O1A
128	H3	501	GTP	C5'-O5'-PA-O2A
128	H6	501	GTP	C5'-O5'-PA-O3A
128	H6	501	GTP	C5'-O5'-PA-O2A
128	H8	501	GTP	PB-O3A-PA-O5'
128	H8	501	GTP	C5'-O5'-PA-O3A
128	H8	501	GTP	C5'-O5'-PA-O1A
128	H8	501	GTP	C5'-O5'-PA-O2A
128	I0	501	GTP	C5'-O5'-PA-O3A
128	I0	501	GTP	C5'-O5'-PA-O1A
128	I0	501	GTP	C5'-O5'-PA-O2A
128	I1	501	GTP	PB-O3A-PA-O5'
128	I1	501	GTP	C5'-O5'-PA-O3A
128	I1	501	GTP	C5'-O5'-PA-O1A
128	I1	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
128	I4	502	GTP	C5'-O5'-PA-O3A
128	I4	502	GTP	C5'-O5'-PA-O1A
128	I4	502	GTP	C5'-O5'-PA-O2A
128	I5	501	GTP	C5'-O5'-PA-O3A
128	I5	501	GTP	C5'-O5'-PA-O1A
128	I5	501	GTP	C5'-O5'-PA-O2A
128	I8	501	GTP	C5'-O5'-PA-O3A
128	I8	501	GTP	C5'-O5'-PA-O2A
128	IK	501	GTP	C5'-O5'-PA-O3A
128	IK	501	GTP	C5'-O5'-PA-O2A
128	IW	501	GTP	PB-O3A-PA-O5'
128	IW	501	GTP	C5'-O5'-PA-O3A
128	IW	501	GTP	C5'-O5'-PA-O1A
128	IW	501	GTP	C5'-O5'-PA-O2A
128	IX	501	GTP	PB-O3A-PA-O5'
128	IX	501	GTP	C5'-O5'-PA-O3A
128	IX	501	GTP	C5'-O5'-PA-O2A
128	Ii	501	GTP	C5'-O5'-PA-O3A
128	Ii	501	GTP	C4'-C5'-O5'-PA
128	Ik	501	GTP	C5'-O5'-PA-O3A
128	Iw	501	GTP	PB-O3B-PG-O2G
128	Iw	501	GTP	PB-O3B-PG-O3G
128	Iw	501	GTP	C5'-O5'-PA-O3A
128	Iw	501	GTP	C5'-O5'-PA-O1A
128	Iy	501	GTP	C5'-O5'-PA-O3A
128	Iy	501	GTP	C5'-O5'-PA-O2A
128	J0	501	GTP	C5'-O5'-PA-O3A
128	J0	501	GTP	C5'-O5'-PA-O2A
128	J2	501	GTP	PB-O3B-PG-O2G
128	J2	501	GTP	PB-O3B-PG-O3G
128	J2	501	GTP	C5'-O5'-PA-O3A
128	J4	501	GTP	C5'-O5'-PA-O3A
128	J4	501	GTP	C5'-O5'-PA-O1A
128	J4	501	GTP	C5'-O5'-PA-O2A
128	J6	501	GTP	C5'-O5'-PA-O3A
128	J6	501	GTP	C5'-O5'-PA-O2A
128	J8	502	GTP	C5'-O5'-PA-O3A
128	J8	502	GTP	C5'-O5'-PA-O1A
128	J8	502	GTP	C5'-O5'-PA-O2A
128	JI	502	GTP	PB-O3A-PA-O5'
128	JI	502	GTP	C5'-O5'-PA-O3A
128	JI	502	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
128	JU	501	GTP	C5'-O5'-PA-O3A
128	JU	501	GTP	C5'-O5'-PA-O2A
128	JW	502	GTP	C5'-O5'-PA-O3A
128	JW	502	GTP	C5'-O5'-PA-O1A
128	JW	502	GTP	C5'-O5'-PA-O2A
128	JX	501	GTP	C5'-O5'-PA-O3A
128	JX	501	GTP	C5'-O5'-PA-O1A
128	JX	501	GTP	C5'-O5'-PA-O2A
128	Jh	501	GTP	C5'-O5'-PA-O3A
128	Jh	501	GTP	C5'-O5'-PA-O1A
128	Jh	501	GTP	C5'-O5'-PA-O2A
128	Jj	501	GTP	C5'-O5'-PA-O3A
128	Jj	501	GTP	C5'-O5'-PA-O2A
128	Jl	502	GTP	C5'-O5'-PA-O3A
128	Jy	501	GTP	C5'-O5'-PA-O3A
128	Jy	501	GTP	C5'-O5'-PA-O2A
128	K0	501	GTP	C5'-O5'-PA-O3A
128	K6	501	GTP	PB-O3A-PA-O5'
128	K6	501	GTP	C5'-O5'-PA-O3A
128	K6	501	GTP	C5'-O5'-PA-O1A
128	K6	501	GTP	C5'-O5'-PA-O2A
128	K9	501	GTP	C5'-O5'-PA-O3A
128	K9	501	GTP	C5'-O5'-PA-O2A
128	KH	501	GTP	C5'-O5'-PA-O3A
128	KI	501	GTP	C5'-O5'-PA-O3A
128	KI	501	GTP	C5'-O5'-PA-O2A
128	KI	501	GTP	O4'-C4'-C5'-O5'
128	KL	501	GTP	C5'-O5'-PA-O3A
128	KL	501	GTP	C5'-O5'-PA-O2A
128	KL	501	GTP	O4'-C4'-C5'-O5'
128	KU	501	GTP	PB-O3A-PA-O5'
128	KU	501	GTP	C5'-O5'-PA-O1A
128	KW	501	GTP	C5'-O5'-PA-O3A
128	KW	501	GTP	C5'-O5'-PA-O2A
128	KY	501	GTP	PB-O3B-PG-O2G
128	KY	501	GTP	PB-O3A-PA-O5'
128	Kj	502	GTP	C5'-O5'-PA-O3A
128	Kj	502	GTP	C5'-O5'-PA-O1A
128	Kj	502	GTP	C5'-O5'-PA-O2A
128	Kl	501	GTP	C5'-O5'-PA-O1A
128	Kv	501	GTP	PB-O3A-PA-O5'
128	Kv	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
128	Kv	501	GTP	C5'-O5'-PA-O2A
128	Kx	501	GTP	C5'-O5'-PA-O3A
128	Kx	501	GTP	C5'-O5'-PA-O1A
128	Kx	501	GTP	C5'-O5'-PA-O2A
128	L2	501	GTP	PB-O3B-PG-O2G
128	L2	501	GTP	PB-O3A-PA-O5'
128	L4	501	GTP	C5'-O5'-PA-O3A
128	L6	501	GTP	PB-O3B-PG-O2G
128	L6	501	GTP	PB-O3A-PA-O5'
128	LH	501	GTP	PB-O3A-PA-O5'
128	LH	501	GTP	C5'-O5'-PA-O3A
128	LH	501	GTP	C5'-O5'-PA-O2A
128	LJ	501	GTP	PB-O3B-PG-O2G
128	LJ	501	GTP	C5'-O5'-PA-O3A
128	LJ	501	GTP	C5'-O5'-PA-O1A
128	LJ	501	GTP	C5'-O5'-PA-O2A
128	LU	501	GTP	PB-O3A-PA-O5'
128	LU	501	GTP	C5'-O5'-PA-O3A
128	LU	501	GTP	C5'-O5'-PA-O1A
128	LU	501	GTP	C5'-O5'-PA-O2A
128	LX	501	GTP	C5'-O5'-PA-O3A
128	LX	501	GTP	C5'-O5'-PA-O2A
128	Lh	501	GTP	C5'-O5'-PA-O3A
128	Lh	501	GTP	C5'-O5'-PA-O1A
128	Lh	501	GTP	C5'-O5'-PA-O2A
128	Li	501	GTP	C5'-O5'-PA-O3A
128	Li	501	GTP	C5'-O5'-PA-O1A
128	Li	501	GTP	C5'-O5'-PA-O2A
128	Lu	501	GTP	C5'-O5'-PA-O3A
128	Lu	501	GTP	C5'-O5'-PA-O2A
128	Lv	501	GTP	C5'-O5'-PA-O3A
128	Lv	501	GTP	C5'-O5'-PA-O2A
128	M0	501	GTP	O4'-C4'-C5'-O5'
128	M2	501	GTP	C5'-O5'-PA-O3A
128	M2	501	GTP	C5'-O5'-PA-O2A
128	M4	501	GTP	C5'-O5'-PA-O3A
128	M4	501	GTP	C5'-O5'-PA-O1A
128	M4	501	GTP	C5'-O5'-PA-O2A
128	M7	501	GTP	C5'-O5'-PA-O3A
128	M7	501	GTP	C5'-O5'-PA-O1A
128	M7	501	GTP	C5'-O5'-PA-O2A
128	M7	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
128	MG	501	GTP	C5'-O5'-PA-O3A
128	MG	501	GTP	C5'-O5'-PA-O2A
128	MH	501	GTP	C5'-O5'-PA-O3A
128	MH	501	GTP	C5'-O5'-PA-O2A
128	MT	501	GTP	C5'-O5'-PA-O3A
128	MT	501	GTP	C5'-O5'-PA-O2A
128	Mg	501	GTP	C5'-O5'-PA-O3A
128	Mg	501	GTP	C5'-O5'-PA-O1A
128	Mg	501	GTP	C5'-O5'-PA-O2A
128	Mh	501	GTP	C5'-O5'-PA-O3A
128	Mt	501	GTP	PB-O3B-PG-O2G
128	Mt	501	GTP	C5'-O5'-PA-O3A
128	Mt	501	GTP	C5'-O5'-PA-O1A
128	Mt	501	GTP	C5'-O5'-PA-O2A
128	Mu	501	GTP	C5'-O5'-PA-O3A
128	Mu	501	GTP	C5'-O5'-PA-O1A
128	Mu	501	GTP	C5'-O5'-PA-O2A
128	N0	501	GTP	PB-O3A-PA-O5'
128	N0	501	GTP	C5'-O5'-PA-O3A
128	N0	501	GTP	C5'-O5'-PA-O1A
128	N0	501	GTP	C5'-O5'-PA-O2A
128	N0	501	GTP	O4'-C4'-C5'-O5'
128	N1	501	GTP	PB-O3A-PA-O5'
128	N1	501	GTP	C5'-O5'-PA-O3A
128	N1	501	GTP	C5'-O5'-PA-O2A
128	N1	501	GTP	O4'-C4'-C5'-O5'
128	N6	501	GTP	C5'-O5'-PA-O3A
128	N6	501	GTP	C5'-O5'-PA-O1A
128	N6	501	GTP	C5'-O5'-PA-O2A
128	N8	501	GTP	PB-O3B-PG-O2G
128	NF	501	GTP	PB-O3B-PG-O2G
128	NH	501	GTP	C5'-O5'-PA-O3A
128	NS	501	GTP	PB-O3B-PG-O2G
128	NS	501	GTP	PB-O3B-PG-O3G
128	NU	501	GTP	PB-O3B-PG-O2G
128	NU	501	GTP	PB-O3B-PG-O3G
128	NW	501	GTP	PB-O3A-PA-O5'
128	NW	501	GTP	C5'-O5'-PA-O3A
128	NW	501	GTP	C5'-O5'-PA-O1A
128	NW	501	GTP	C5'-O5'-PA-O2A
128	Nf	501	GTP	C5'-O5'-PA-O3A
128	Nf	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
128	Nh	501	GTP	C5'-O5'-PA-O3A
128	Nh	501	GTP	C5'-O5'-PA-O2A
128	Ni	501	GTP	PB-O3A-PA-O5'
128	Ni	501	GTP	O4'-C4'-C5'-O5'
128	O0	501	GTP	C5'-O5'-PA-O3A
128	O0	501	GTP	C5'-O5'-PA-O1A
128	O0	501	GTP	C5'-O5'-PA-O2A
128	O2	501	GTP	PB-O3B-PG-O2G
128	O2	501	GTP	PB-O3A-PA-O5'
128	O4	502	GTP	C5'-O5'-PA-O3A
128	O4	502	GTP	C5'-O5'-PA-O1A
128	O4	502	GTP	C5'-O5'-PA-O2A
128	O6	501	GTP	PB-O3A-PA-O5'
128	O8	501	GTP	C5'-O5'-PA-O3A
128	O8	501	GTP	C5'-O5'-PA-O1A
128	O8	501	GTP	C5'-O5'-PA-O2A
128	P4	501	GTP	C5'-O5'-PA-O3A
128	P4	501	GTP	C5'-O5'-PA-O1A
128	P4	501	GTP	C5'-O5'-PA-O2A
128	P6	501	GTP	C5'-O5'-PA-O3A
128	P6	501	GTP	C5'-O5'-PA-O2A
128	P8	501	GTP	C5'-O5'-PA-O3A
128	P8	501	GTP	C5'-O5'-PA-O1A
128	P8	501	GTP	C5'-O5'-PA-O2A
128	P9	501	GTP	PB-O3B-PG-O3G
128	P9	501	GTP	C5'-O5'-PA-O3A
128	P9	501	GTP	C5'-O5'-PA-O1A
128	P9	501	GTP	C5'-O5'-PA-O2A
128	Q2	501	GTP	C5'-O5'-PA-O3A
128	Q2	501	GTP	C5'-O5'-PA-O1A
128	Q2	501	GTP	C5'-O5'-PA-O2A
128	Q4	501	GTP	C5'-O5'-PA-O3A
128	Q4	501	GTP	C5'-O5'-PA-O1A
128	Q4	501	GTP	C5'-O5'-PA-O2A
128	Q6	501	GTP	C5'-O5'-PA-O3A
128	Q6	501	GTP	C5'-O5'-PA-O1A
128	Q6	501	GTP	C5'-O5'-PA-O2A
128	R0	501	GTP	PB-O3B-PG-O2G
128	R2	502	GTP	C5'-O5'-PA-O3A
128	R2	502	GTP	C5'-O5'-PA-O1A
128	R2	502	GTP	C5'-O5'-PA-O2A
128	R4	501	GTP	PB-O3A-PA-O5'

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Mol	Chain	Res	Type	Atoms
128	R4	501	GTP	C5'-O5'-PA-O3A
128	R4	501	GTP	C5'-O5'-PA-O1A
128	R4	501	GTP	C5'-O5'-PA-O2A
128	R6	501	GTP	C5'-O5'-PA-O3A
128	R6	501	GTP	C5'-O5'-PA-O1A
128	R6	501	GTP	C5'-O5'-PA-O2A
128	R8	502	GTP	PB-O3B-PG-O3G
128	R8	502	GTP	C5'-O5'-PA-O3A
128	R8	502	GTP	C5'-O5'-PA-O1A
128	S0	501	GTP	C5'-O5'-PA-O3A
128	S0	501	GTP	C5'-O5'-PA-O1A
128	S0	501	GTP	C5'-O5'-PA-O2A
128	S2	501	GTP	C5'-O5'-PA-O3A
128	S2	501	GTP	C5'-O5'-PA-O1A
128	S5	501	GTP	C5'-O5'-PA-O3A
128	S5	501	GTP	C5'-O5'-PA-O1A
128	S5	501	GTP	C5'-O5'-PA-O2A
128	S8	501	GTP	C5'-O5'-PA-O3A
128	S8	501	GTP	C5'-O5'-PA-O2A
128	S9	501	GTP	PB-O3A-PA-O5'
128	S9	501	GTP	C5'-O5'-PA-O3A
128	S9	501	GTP	C5'-O5'-PA-O2A
128	T2	501	GTP	C5'-O5'-PA-O3A
128	T2	501	GTP	C5'-O5'-PA-O1A
128	T2	501	GTP	C5'-O5'-PA-O2A
128	T4	501	GTP	PB-O3B-PG-O2G
128	T4	501	GTP	C5'-O5'-PA-O3A
128	T4	501	GTP	C5'-O5'-PA-O1A
128	T4	501	GTP	C5'-O5'-PA-O2A
128	T6	501	GTP	C5'-O5'-PA-O3A
128	T6	501	GTP	C5'-O5'-PA-O1A
128	T6	501	GTP	C5'-O5'-PA-O2A
128	U4	501	GTP	C5'-O5'-PA-O3A
128	U4	501	GTP	C5'-O5'-PA-O1A
128	U4	501	GTP	C5'-O5'-PA-O2A
128	U6	501	GTP	PB-O3A-PA-O5'
128	U6	501	GTP	C5'-O5'-PA-O3A
128	U6	501	GTP	C5'-O5'-PA-O2A
128	U7	501	GTP	C5'-O5'-PA-O3A
128	U7	501	GTP	C5'-O5'-PA-O1A
128	U7	501	GTP	C5'-O5'-PA-O2A
128	U9	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
128	U9	501	GTP	C5'-O5'-PA-O1A
128	U9	501	GTP	C5'-O5'-PA-O2A
128	U9	501	GTP	O4'-C4'-C5'-O5'
128	V2	501	GTP	C5'-O5'-PA-O3A
128	V2	501	GTP	C5'-O5'-PA-O2A
128	V3	501	GTP	C5'-O5'-PA-O3A
128	V3	501	GTP	C5'-O5'-PA-O1A
128	V3	501	GTP	C5'-O5'-PA-O2A
128	V8	501	GTP	C5'-O5'-PA-O3A
128	V8	501	GTP	C5'-O5'-PA-O2A
128	W0	501	GTP	PB-O3B-PG-O2G
128	W0	501	GTP	PB-O3B-PG-O3G
128	W0	501	GTP	C5'-O5'-PA-O3A
128	W2	501	GTP	C5'-O5'-PA-O3A
128	W2	501	GTP	C5'-O5'-PA-O1A
128	W2	501	GTP	C5'-O5'-PA-O2A
128	W4	501	GTP	C5'-O5'-PA-O3A
128	W4	501	GTP	C5'-O5'-PA-O1A
128	W4	501	GTP	C5'-O5'-PA-O2A
128	W5	501	GTP	C5'-O5'-PA-O3A
128	W5	501	GTP	C5'-O5'-PA-O2A
128	W8	501	GTP	C5'-O5'-PA-O3A
128	W8	501	GTP	C5'-O5'-PA-O1A
128	W8	501	GTP	O4'-C4'-C5'-O5'
128	X0	501	GTP	O4'-C4'-C5'-O5'
128	X4	501	GTP	C5'-O5'-PA-O1A
128	X6	501	GTP	C5'-O5'-PA-O3A
128	X6	501	GTP	C5'-O5'-PA-O2A
128	X7	501	GTP	C5'-O5'-PA-O3A
128	X7	501	GTP	C5'-O5'-PA-O1A
128	Y0	501	GTP	PB-O3A-PA-O5'
128	Y0	501	GTP	C5'-O5'-PA-O3A
128	Y0	501	GTP	C5'-O5'-PA-O1A
128	Y0	501	GTP	C5'-O5'-PA-O2A
128	Y1	501	GTP	C5'-O5'-PA-O3A
128	Y1	501	GTP	C5'-O5'-PA-O2A
128	Y6	501	GTP	PB-O3A-PA-O5'
128	Y6	501	GTP	C5'-O5'-PA-O3A
128	Y6	501	GTP	C5'-O5'-PA-O1A
128	Y6	501	GTP	C5'-O5'-PA-O2A
128	Z0	501	GTP	C5'-O5'-PA-O1A
128	Z2	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
128	Z2	501	GTP	C5'-O5'-PA-O2A
128	Z6	501	GTP	PB-O3B-PG-O2G
128	Z7	501	GTP	C5'-O5'-PA-O3A
128	Z7	501	GTP	C5'-O5'-PA-O2A
129	0C	502	GDP	PA-O3A-PB-O3B
129	0E	501	GDP	PA-O3A-PB-O2B
129	0E	501	GDP	PA-O3A-PB-O3B
129	0E	501	GDP	C5'-O5'-PA-O1A
129	0G	501	GDP	PA-O3A-PB-O3B
129	0I	503	GDP	PA-O3A-PB-O3B
129	0M	502	GDP	PA-O3A-PB-O3B
129	0Q	503	GDP	PA-O3A-PB-O3B
129	0S	501	GDP	C5'-O5'-PA-O1A
129	0U	501	GDP	PA-O3A-PB-O3B
129	0Y	502	GDP	PA-O3A-PB-O3B
129	0Y	502	GDP	C5'-O5'-PA-O1A
129	1A	502	GDP	PA-O3A-PB-O3B
129	1A	502	GDP	C5'-O5'-PA-O1A
129	1C	502	GDP	PA-O3A-PB-O3B
129	1E	501	GDP	PA-O3A-PB-O3B
129	1E	501	GDP	C5'-O5'-PA-O1A
129	1G	502	GDP	PA-O3A-PB-O3B
129	1K	501	GDP	PA-O3A-PB-O3B
129	1K	501	GDP	C5'-O5'-PA-O1A
129	1M	501	GDP	PA-O3A-PB-O3B
129	1O	501	GDP	C5'-O5'-PA-O1A
129	1Q	502	GDP	PA-O3A-PB-O3B
129	1S	502	GDP	PA-O3A-PB-O3B
129	1U	501	GDP	PA-O3A-PB-O3B
129	1U	501	GDP	C5'-O5'-PA-O1A
129	1W	502	GDP	PA-O3A-PB-O3B
129	1W	502	GDP	C5'-O5'-PA-O1A
129	2A	502	GDP	PA-O3A-PB-O3B
129	2C	502	GDP	PA-O3A-PB-O3B
129	2E	502	GDP	PA-O3A-PB-O3B
129	2G	502	GDP	C5'-O5'-PA-O1A
129	2I	502	GDP	PA-O3A-PB-O3B
129	2K	502	GDP	PA-O3A-PB-O3B
129	2K	502	GDP	C5'-O5'-PA-O1A
129	2M	501	GDP	PA-O3A-PB-O3B
129	2Q	502	GDP	PA-O3A-PB-O3B
129	2S	502	GDP	PA-O3A-PB-O3B

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Mol	Chain	Res	Type	Atoms
129	2W	502	GDP	PA-O3A-PB-O3B
129	2Y	502	GDP	C5'-O5'-PA-O1A
129	3A	502	GDP	C5'-O5'-PA-O1A
129	3C	502	GDP	PA-O3A-PB-O3B
129	3G	502	GDP	PA-O3A-PB-O3B
129	3I	502	GDP	PA-O3A-PB-O3B
129	3M	502	GDP	C5'-O5'-PA-O1A
129	3O	502	GDP	C5'-O5'-PA-O1A
129	3Q	501	GDP	C5'-O5'-PA-O1A
129	3S	502	GDP	C5'-O5'-PA-O1A
129	8H	502	GDP	C5'-O5'-PA-O3A
129	8H	502	GDP	C5'-O5'-PA-O1A
129	8J	501	GDP	C5'-O5'-PA-O3A
129	8J	501	GDP	C5'-O5'-PA-O1A
129	8L	502	GDP	C5'-O5'-PA-O3A
129	8L	502	GDP	C5'-O5'-PA-O1A
129	8N	501	GDP	PA-O3A-PB-O3B
129	A1	502	GDP	PA-O3A-PB-O2B
129	A1	502	GDP	PA-O3A-PB-O3B
129	A3	501	GDP	PA-O3A-PB-O3B
129	A5	501	GDP	PA-O3A-PB-O3B
129	A6	501	GDP	C5'-O5'-PA-O3A
129	A6	501	GDP	C5'-O5'-PA-O1A
129	A9	502	GDP	C5'-O5'-PA-O3A
129	A9	502	GDP	C5'-O5'-PA-O1A
129	AJ	501	GDP	PA-O3A-PB-O3B
129	Ah	501	GDP	C5'-O5'-PA-O3A
129	Ah	501	GDP	C5'-O5'-PA-O1A
129	Aj	502	GDP	C5'-O5'-PA-O1A
129	Al	501	GDP	PA-O3A-PB-O3B
129	An	502	GDP	PA-O3A-PB-O3B
129	Ap	501	GDP	PA-O3A-PB-O3B
129	Au	501	GDP	C5'-O5'-PA-O3A
129	Au	501	GDP	C5'-O5'-PA-O1A
129	Aw	501	GDP	C5'-O5'-PA-O3A
129	Aw	501	GDP	C5'-O5'-PA-O1A
129	Ay	503	GDP	C5'-O5'-PA-O3A
129	Ay	503	GDP	C5'-O5'-PA-O2A
129	B1	501	GDP	C5'-O5'-PA-O1A
129	B3	501	GDP	C5'-O5'-PA-O3A
129	B3	501	GDP	C5'-O5'-PA-O1A
129	B5	502	GDP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
129	B6	501	GDP	PA-O3A-PB-O3B
129	B8	501	GDP	C5'-O5'-PA-O3A
129	BB	502	GDP	C5'-O5'-PA-O1A
129	BG	502	GDP	C5'-O5'-PA-O1A
129	BI	501	GDP	PA-O3A-PB-O3B
129	BK	501	GDP	PA-O3A-PB-O3B
129	BM	501	GDP	PA-O3A-PB-O3B
129	BO	501	GDP	PA-O3A-PB-O3B
129	BS	501	GDP	PA-O3A-PB-O3B
129	BU	502	GDP	PA-O3A-PB-O3B
129	BW	502	GDP	C5'-O5'-PA-O1A
129	BY	502	GDP	C5'-O5'-PA-O1A
129	Ba	502	GDP	C5'-O5'-PA-O1A
129	Bf	501	GDP	PA-O3A-PB-O2B
129	Bf	501	GDP	PA-O3A-PB-O3B
129	Bh	502	GDP	PA-O3A-PB-O3B
129	Bj	501	GDP	PA-O3A-PB-O3B
129	Bl	502	GDP	PA-O3A-PB-O3B
129	Bn	501	GDP	O4'-C4'-C5'-O5'
129	Bs	501	GDP	PA-O3A-PB-O3B
129	Bw	503	GDP	PA-O3A-PB-O3B
129	By	503	GDP	PA-O3A-PB-O3B
129	C0	502	GDP	C5'-O5'-PA-O1A
129	C2	501	GDP	C5'-O5'-PA-O3A
129	C6	501	GDP	PA-O3A-PB-O3B
129	CE	501	GDP	C5'-O5'-PA-O1A
129	CG	502	GDP	C5'-O5'-PA-O1A
129	CI	503	GDP	C5'-O5'-PA-O1A
129	CK	502	GDP	PA-O3A-PB-O3B
129	CM	503	GDP	PA-O3A-PB-O3B
129	CR	501	GDP	PA-O3A-PB-O3B
129	CR	501	GDP	C5'-O5'-PA-O1A
129	CV	501	GDP	PA-O3A-PB-O3B
129	CX	502	GDP	PA-O3A-PB-O3B
129	CZ	502	GDP	C5'-O5'-PA-O3A
129	CZ	502	GDP	C5'-O5'-PA-O1A
129	Ce	501	GDP	C5'-O5'-PA-O3A
129	Ce	501	GDP	C5'-O5'-PA-O1A
129	Cg	502	GDP	C5'-O5'-PA-O3A
129	Cg	502	GDP	C5'-O5'-PA-O1A
129	Ck	501	GDP	C5'-O5'-PA-O3A
129	Ck	501	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
129	Cm	502	GDP	C5'-O5'-PA-O3A
129	Ct	502	GDP	PA-O3A-PB-O3B
129	Cv	503	GDP	C5'-O5'-PA-O1A
129	Cx	502	GDP	C5'-O5'-PA-O1A
129	Cz	502	GDP	C5'-O5'-PA-O3A
129	Cz	502	GDP	C5'-O5'-PA-O1A
129	D4	501	GDP	PA-O3A-PB-O3B
129	D6	501	GDP	PA-O3A-PB-O3B
129	D8	501	GDP	PA-O3A-PB-O3B
129	DE	502	GDP	C5'-O5'-PA-O1A
129	DG	502	GDP	PA-O3A-PB-O3B
129	DG	502	GDP	C5'-O5'-PA-O1A
129	DI	501	GDP	C5'-O5'-PA-O1A
129	DK	502	GDP	PA-O3A-PB-O3B
129	DK	502	GDP	C5'-O5'-PA-O1A
129	DM	502	GDP	C5'-O5'-PA-O1A
129	DT	502	GDP	C5'-O5'-PA-O1A
129	DV	502	GDP	PA-O3A-PB-O2B
129	DV	502	GDP	PA-O3A-PB-O3B
129	DX	502	GDP	PA-O3A-PB-O3B
129	DX	502	GDP	C5'-O5'-PA-O3A
129	DX	502	GDP	C5'-O5'-PA-O1A
129	DX	502	GDP	O4'-C4'-C5'-O5'
129	DX	502	GDP	C3'-C4'-C5'-O5'
129	DZ	502	GDP	C5'-O5'-PA-O1A
129	Dg	501	GDP	PA-O3A-PB-O3B
129	Di	502	GDP	C5'-O5'-PA-O1A
129	Dk	502	GDP	PA-O3A-PB-O3B
129	Dk	502	GDP	C5'-O5'-PA-O1A
129	Dm	502	GDP	C5'-O5'-PA-O1A
129	Dv	501	GDP	PA-O3A-PB-O2B
129	Dv	501	GDP	PA-O3A-PB-O3B
129	Dx	501	GDP	C5'-O5'-PA-O1A
129	Dz	502	GDP	C5'-O5'-PA-O1A
129	E4	502	GDP	PA-O3A-PB-O3B
129	ED	502	GDP	C5'-O5'-PA-O3A
129	EF	502	GDP	PA-O3A-PB-O3B
129	EH	502	GDP	C5'-O5'-PA-O1A
129	EJ	501	GDP	PA-O3A-PB-O3B
129	EL	502	GDP	PA-O3A-PB-O3B
129	Ef	501	GDP	C5'-O5'-PA-O1A
129	El	502	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
129	Eq	502	GDP	C5'-O5'-PA-O1A
129	Ew	502	GDP	C5'-O5'-PA-O1A
129	F8	502	GDP	PA-O3A-PB-O3B
129	FC	501	GDP	C5'-O5'-PA-O1A
129	FE	502	GDP	PA-O3A-PB-O3B
129	FG	502	GDP	PA-O3A-PB-O3B
129	FG	502	GDP	C5'-O5'-PA-O1A
129	FI	502	GDP	PA-O3A-PB-O3B
129	FI	502	GDP	C5'-O5'-PA-O1A
129	FK	501	GDP	PA-O3A-PB-O3B
129	FR	501	GDP	C5'-O5'-PA-O1A
129	FT	503	GDP	PA-O3A-PB-O3B
129	FV	502	GDP	PA-O3A-PB-O3B
129	FX	501	GDP	PA-O3A-PB-O3B
129	FX	501	GDP	C5'-O5'-PA-O3A
129	FX	501	GDP	C5'-O5'-PA-O1A
129	FX	501	GDP	O4'-C4'-C5'-O5'
129	Fc	502	GDP	PA-O3A-PB-O2B
129	Fc	502	GDP	PA-O3A-PB-O3B
129	Fe	502	GDP	PA-O3A-PB-O3B
129	Fg	502	GDP	C5'-O5'-PA-O1A
129	Fi	502	GDP	PA-O3A-PB-O3B
129	Fk	502	GDP	PA-O3A-PB-O2B
129	Fk	502	GDP	PA-O3A-PB-O3B
129	Fp	502	GDP	PA-O3A-PB-O3B
129	Fr	502	GDP	PA-O3A-PB-O3B
129	Ft	502	GDP	PA-O3A-PB-O2B
129	Ft	502	GDP	PA-O3A-PB-O3B
129	Fv	502	GDP	C5'-O5'-PA-O3A
129	Fx	502	GDP	C5'-O5'-PA-O3A
129	Fx	502	GDP	C5'-O5'-PA-O1A
129	G6	501	GDP	PA-O3A-PB-O3B
129	GB	502	GDP	PA-O3A-PB-O3B
129	GD	502	GDP	C5'-O5'-PA-O3A
129	GD	502	GDP	C5'-O5'-PA-O1A
129	GF	502	GDP	C5'-O5'-PA-O1A
129	GH	502	GDP	C5'-O5'-PA-O1A
129	GJ	501	GDP	C5'-O5'-PA-O1A
129	H4	501	GDP	PA-O3A-PB-O3B
129	I4	503	GDP	PA-O3A-PB-O3B
129	I8	502	GDP	C5'-O5'-PA-O1A
129	IK	502	GDP	PA-O3A-PB-O3B

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Mol	Chain	Res	Type	Atoms
129	IM	501	GDP	C5'-O5'-PA-O1A
129	IW	502	GDP	C5'-O5'-PA-O3A
129	IW	502	GDP	C5'-O5'-PA-O2A
129	IY	501	GDP	C5'-O5'-PA-O3A
129	IY	501	GDP	C5'-O5'-PA-O1A
129	Ij	501	GDP	PA-O3A-PB-O3B
129	Il	501	GDP	PA-O3A-PB-O3B
129	J0	502	GDP	PA-O3A-PB-O3B
129	J2	502	GDP	C5'-O5'-PA-O1A
129	J6	502	GDP	PA-O3A-PB-O2B
129	J6	502	GDP	PA-O3A-PB-O3B
129	J8	503	GDP	PA-O3A-PB-O3B
129	JU	503	GDP	PA-O3A-PB-O2B
129	JU	503	GDP	PA-O3A-PB-O3B
129	JW	503	GDP	PA-O3A-PB-O3B
129	JY	501	GDP	PA-O3A-PB-O3B
129	Jj	502	GDP	PA-O3A-PB-O3B
129	Jl	503	GDP	PA-O3A-PB-O3B
129	Ju	501	GDP	PA-O3A-PB-O3B
129	Jw	502	GDP	PA-O3A-PB-O3B
129	Jy	502	GDP	PA-O3A-PB-O3B
129	K0	502	GDP	PA-O3A-PB-O3B
129	K4	502	GDP	PA-O3A-PB-O3B
129	K6	502	GDP	PA-O3A-PB-O3B
129	KJ	501	GDP	C5'-O5'-PA-O3A
129	KJ	501	GDP	C5'-O5'-PA-O1A
129	KL	502	GDP	PA-O3A-PB-O3B
129	KL	502	GDP	C5'-O5'-PA-O3A
129	KL	502	GDP	C5'-O5'-PA-O1A
129	KW	502	GDP	C5'-O5'-PA-O1A
129	KY	502	GDP	C5'-O5'-PA-O1A
129	Kl	502	GDP	PA-O3A-PB-O3B
129	Kv	503	GDP	PA-O3A-PB-O3B
129	Kx	502	GDP	PA-O3A-PB-O3B
129	Kx	502	GDP	C5'-O5'-PA-O1A
129	Kx	502	GDP	O4'-C4'-C5'-O5'
129	L2	502	GDP	PA-O3A-PB-O3B
129	L4	502	GDP	PA-O3A-PB-O3B
129	L6	502	GDP	PA-O3A-PB-O3B
129	LH	502	GDP	C5'-O5'-PA-O1A
129	LJ	502	GDP	PA-O3A-PB-O3B
129	LT	501	GDP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
129	LT	501	GDP	PA-O3A-PB-O3B
129	LV	501	GDP	C5'-O5'-PA-O1A
129	Lh	502	GDP	C5'-O5'-PA-O1A
129	Lj	501	GDP	PA-O3A-PB-O3B
129	M0	502	GDP	C5'-O5'-PA-O1A
129	M2	502	GDP	PA-O3A-PB-O3B
129	M4	502	GDP	C5'-O5'-PA-O3A
129	M4	502	GDP	C5'-O5'-PA-O1A
129	M6	502	GDP	C5'-O5'-PA-O1A
129	M8	501	GDP	C5'-O5'-PA-O3A
129	Mg	502	GDP	PA-O3A-PB-O3B
129	Mi	501	GDP	PA-O3A-PB-O3B
129	Mt	502	GDP	PA-O3A-PB-O3B
129	Mt	502	GDP	C5'-O5'-PA-O3A
129	Mt	502	GDP	C5'-O5'-PA-O1A
129	Mv	501	GDP	PA-O3A-PB-O3B
129	Mv	501	GDP	C5'-O5'-PA-O1A
129	Mv	501	GDP	O4'-C4'-C5'-O5'
129	N0	502	GDP	C5'-O5'-PA-O3A
129	N0	502	GDP	C5'-O5'-PA-O2A
129	NF	502	GDP	C5'-O5'-PA-O1A
129	NH	502	GDP	PA-O3A-PB-O3B
129	NJ	502	GDP	PA-O3A-PB-O3B
129	NS	502	GDP	PA-O3A-PB-O3B
129	NU	502	GDP	C5'-O5'-PA-O3A
129	NU	502	GDP	C5'-O5'-PA-O1A
129	NW	502	GDP	C5'-O5'-PA-O3A
129	NW	502	GDP	C5'-O5'-PA-O1A
129	Nh	502	GDP	C5'-O5'-PA-O1A
129	Nj	501	GDP	C5'-O5'-PA-O1A
129	O0	502	GDP	PA-O3A-PB-O3B
129	O6	502	GDP	C5'-O5'-PA-O1A
129	P8	502	GDP	PA-O3A-PB-O3B
129	P8	502	GDP	C5'-O5'-PA-O1A
129	Q2	502	GDP	PA-O3A-PB-O3B
129	Q2	502	GDP	C5'-O5'-PA-O1A
129	Q4	502	GDP	PA-O3A-PB-O3B
129	Q4	502	GDP	C5'-O5'-PA-O1A
129	Q4	502	GDP	O4'-C4'-C5'-O5'
129	Q6	502	GDP	PA-O3A-PB-O2B
129	Q6	502	GDP	PA-O3A-PB-O3B
129	Q6	502	GDP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
129	Q6	502	GDP	C5'-O5'-PA-O1A
129	Q6	502	GDP	O4'-C4'-C5'-O5'
129	R2	503	GDP	C5'-O5'-PA-O1A
129	R6	502	GDP	PA-O3A-PB-O2B
129	R6	502	GDP	PA-O3A-PB-O3B
129	R8	503	GDP	PA-O3A-PB-O3B
129	R8	503	GDP	C5'-O5'-PA-O3A
129	R8	503	GDP	C5'-O5'-PA-O1A
129	R8	503	GDP	O4'-C4'-C5'-O5'
129	S0	502	GDP	C5'-O5'-PA-O1A
129	S2	502	GDP	C5'-O5'-PA-O1A
129	S4	501	GDP	C5'-O5'-PA-O1A
129	T0	501	GDP	PA-O3A-PB-O3B
129	T2	502	GDP	C5'-O5'-PA-O1A
129	T4	502	GDP	PA-O3A-PB-O3B
129	T6	502	GDP	C5'-O5'-PA-O1A
129	T8	502	GDP	C5'-O5'-PA-O1A
129	U4	502	GDP	PA-O3A-PB-O3B
129	V0	501	GDP	C5'-O5'-PA-O3A
129	V0	501	GDP	C5'-O5'-PA-O1A
129	V2	502	GDP	C5'-O5'-PA-O1A
129	V6	501	GDP	PA-O3A-PB-O3B
129	V8	502	GDP	C5'-O5'-PA-O3A
129	V8	502	GDP	C5'-O5'-PA-O1A
129	W0	502	GDP	C5'-O5'-PA-O3A
129	W0	502	GDP	C5'-O5'-PA-O1A
129	W2	502	GDP	PA-O3A-PB-O3B
129	W4	502	GDP	C5'-O5'-PA-O3A
129	W4	502	GDP	C5'-O5'-PA-O1A
129	W6	501	GDP	PA-O3A-PB-O3B
129	W8	502	GDP	PA-O3A-PB-O3B
129	Y0	502	GDP	C5'-O5'-PA-O1A
129	Z4	501	GDP	C5'-O5'-PA-O1A
129	Z6	502	GDP	C5'-O5'-PA-O1A
128	0O	501	GTP	O4'-C4'-C5'-O5'
128	0O	501	GTP	C3'-C4'-C5'-O5'
128	0V	501	GTP	C3'-C4'-C5'-O5'
128	0Y	501	GTP	O4'-C4'-C5'-O5'
128	1L	501	GTP	O4'-C4'-C5'-O5'
128	1L	501	GTP	C3'-C4'-C5'-O5'
128	1Q	501	GTP	O4'-C4'-C5'-O5'
128	1Q	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
128	2E	501	GTP	O4'-C4'-C5'-O5'
128	2E	501	GTP	C3'-C4'-C5'-O5'
128	2Q	501	GTP	C3'-C4'-C5'-O5'
128	2S	501	GTP	O4'-C4'-C5'-O5'
128	2S	501	GTP	C3'-C4'-C5'-O5'
128	3A	501	GTP	O4'-C4'-C5'-O5'
128	3A	501	GTP	C3'-C4'-C5'-O5'
128	3G	501	GTP	O4'-C4'-C5'-O5'
128	A1	501	GTP	O4'-C4'-C5'-O5'
128	A9	501	GTP	O4'-C4'-C5'-O5'
128	A9	501	GTP	C3'-C4'-C5'-O5'
128	AT	501	GTP	C3'-C4'-C5'-O5'
128	Ak	501	GTP	O4'-C4'-C5'-O5'
128	Ak	501	GTP	C3'-C4'-C5'-O5'
128	An	501	GTP	O4'-C4'-C5'-O5'
128	At	501	GTP	O4'-C4'-C5'-O5'
128	At	501	GTP	C3'-C4'-C5'-O5'
128	Az	501	GTP	O4'-C4'-C5'-O5'
128	B0	501	GTP	C3'-C4'-C5'-O5'
128	B2	501	GTP	O4'-C4'-C5'-O5'
128	B7	501	GTP	C3'-C4'-C5'-O5'
128	BB	501	GTP	O4'-C4'-C5'-O5'
128	BB	501	GTP	C3'-C4'-C5'-O5'
128	BW	501	GTP	O4'-C4'-C5'-O5'
128	BW	501	GTP	C3'-C4'-C5'-O5'
128	By	502	GTP	O4'-C4'-C5'-O5'
128	By	502	GTP	C3'-C4'-C5'-O5'
128	CG	501	GTP	O4'-C4'-C5'-O5'
128	CG	501	GTP	C3'-C4'-C5'-O5'
128	CK	501	GTP	C3'-C4'-C5'-O5'
128	CS	501	GTP	O4'-C4'-C5'-O5'
128	CX	501	GTP	C3'-C4'-C5'-O5'
128	CZ	501	GTP	O4'-C4'-C5'-O5'
128	Ce	502	GTP	C3'-C4'-C5'-O5'
128	Cg	501	GTP	O4'-C4'-C5'-O5'
128	Cg	501	GTP	C3'-C4'-C5'-O5'
128	Ci	501	GTP	O4'-C4'-C5'-O5'
128	Ci	501	GTP	C3'-C4'-C5'-O5'
128	Cj	501	GTP	O4'-C4'-C5'-O5'
128	Cm	501	GTP	C3'-C4'-C5'-O5'
128	DH	501	GTP	O4'-C4'-C5'-O5'
128	DH	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
128	DM	501	GTP	O4'-C4'-C5'-O5'
128	DM	501	GTP	C3'-C4'-C5'-O5'
128	DR	501	GTP	O4'-C4'-C5'-O5'
128	DR	501	GTP	C3'-C4'-C5'-O5'
128	DZ	501	GTP	O4'-C4'-C5'-O5'
128	DZ	501	GTP	C3'-C4'-C5'-O5'
128	De	501	GTP	C3'-C4'-C5'-O5'
128	Dr	501	GTP	O4'-C4'-C5'-O5'
128	Dr	501	GTP	C3'-C4'-C5'-O5'
128	Dw	501	GTP	O4'-C4'-C5'-O5'
128	Dw	501	GTP	C3'-C4'-C5'-O5'
128	ED	501	GTP	O4'-C4'-C5'-O5'
128	EF	501	GTP	C3'-C4'-C5'-O5'
128	EH	501	GTP	C3'-C4'-C5'-O5'
128	EI	501	GTP	O4'-C4'-C5'-O5'
128	EI	501	GTP	C3'-C4'-C5'-O5'
128	EY	501	GTP	C3'-C4'-C5'-O5'
128	Ed	501	GTP	C3'-C4'-C5'-O5'
128	Eq	501	GTP	C3'-C4'-C5'-O5'
128	Ew	501	GTP	O4'-C4'-C5'-O5'
128	Ew	501	GTP	C3'-C4'-C5'-O5'
128	FT	502	GTP	O4'-C4'-C5'-O5'
128	FW	501	GTP	O4'-C4'-C5'-O5'
128	FW	501	GTP	C3'-C4'-C5'-O5'
128	Fr	501	GTP	O4'-C4'-C5'-O5'
128	Fr	501	GTP	C3'-C4'-C5'-O5'
128	Ft	501	GTP	O4'-C4'-C5'-O5'
128	Ft	501	GTP	C3'-C4'-C5'-O5'
128	Fv	501	GTP	O4'-C4'-C5'-O5'
128	Fx	501	GTP	C3'-C4'-C5'-O5'
128	GB	501	GTP	O4'-C4'-C5'-O5'
128	GB	501	GTP	C3'-C4'-C5'-O5'
128	GF	501	GTP	C3'-C4'-C5'-O5'
128	GI	501	GTP	C3'-C4'-C5'-O5'
128	H2	501	GTP	O4'-C4'-C5'-O5'
128	H2	501	GTP	C3'-C4'-C5'-O5'
128	H3	501	GTP	O4'-C4'-C5'-O5'
128	H3	501	GTP	C3'-C4'-C5'-O5'
128	H6	501	GTP	O4'-C4'-C5'-O5'
128	I0	501	GTP	O4'-C4'-C5'-O5'
128	I0	501	GTP	C3'-C4'-C5'-O5'
128	I1	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
128	I1	501	GTP	C3'-C4'-C5'-O5'
128	I5	501	GTP	O4'-C4'-C5'-O5'
128	I5	501	GTP	C3'-C4'-C5'-O5'
128	I8	501	GTP	O4'-C4'-C5'-O5'
128	I8	501	GTP	C3'-C4'-C5'-O5'
128	IK	501	GTP	O4'-C4'-C5'-O5'
128	IK	501	GTP	C3'-C4'-C5'-O5'
128	IX	501	GTP	O4'-C4'-C5'-O5'
128	J2	501	GTP	O4'-C4'-C5'-O5'
128	J2	501	GTP	C3'-C4'-C5'-O5'
128	J6	501	GTP	C3'-C4'-C5'-O5'
128	J8	502	GTP	C3'-C4'-C5'-O5'
128	JW	502	GTP	O4'-C4'-C5'-O5'
128	JW	502	GTP	C3'-C4'-C5'-O5'
128	JX	501	GTP	O4'-C4'-C5'-O5'
128	JX	501	GTP	C3'-C4'-C5'-O5'
128	Jw	501	GTP	C3'-C4'-C5'-O5'
128	K4	501	GTP	C3'-C4'-C5'-O5'
128	KH	501	GTP	O4'-C4'-C5'-O5'
128	KH	501	GTP	C3'-C4'-C5'-O5'
128	KI	501	GTP	C3'-C4'-C5'-O5'
128	KL	501	GTP	C3'-C4'-C5'-O5'
128	KW	501	GTP	O4'-C4'-C5'-O5'
128	Kj	502	GTP	C3'-C4'-C5'-O5'
128	Kl	501	GTP	O4'-C4'-C5'-O5'
128	Kl	501	GTP	C3'-C4'-C5'-O5'
128	L2	501	GTP	C3'-C4'-C5'-O5'
128	L4	501	GTP	O4'-C4'-C5'-O5'
128	L4	501	GTP	C3'-C4'-C5'-O5'
128	LU	501	GTP	O4'-C4'-C5'-O5'
128	LU	501	GTP	C3'-C4'-C5'-O5'
128	LX	501	GTP	O4'-C4'-C5'-O5'
128	LX	501	GTP	C3'-C4'-C5'-O5'
128	Li	501	GTP	O4'-C4'-C5'-O5'
128	Li	501	GTP	C3'-C4'-C5'-O5'
128	M0	501	GTP	C3'-C4'-C5'-O5'
128	M2	501	GTP	O4'-C4'-C5'-O5'
128	M2	501	GTP	C3'-C4'-C5'-O5'
128	M4	501	GTP	O4'-C4'-C5'-O5'
128	M6	501	GTP	O4'-C4'-C5'-O5'
128	M6	501	GTP	C3'-C4'-C5'-O5'
128	M7	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
128	Mg	501	GTP	O4'-C4'-C5'-O5'
128	Mg	501	GTP	C3'-C4'-C5'-O5'
128	Mh	501	GTP	O4'-C4'-C5'-O5'
128	Mh	501	GTP	C3'-C4'-C5'-O5'
128	Mu	501	GTP	O4'-C4'-C5'-O5'
128	Mu	501	GTP	C3'-C4'-C5'-O5'
128	N0	501	GTP	C3'-C4'-C5'-O5'
128	N1	501	GTP	C3'-C4'-C5'-O5'
128	NH	501	GTP	C3'-C4'-C5'-O5'
128	NU	501	GTP	O4'-C4'-C5'-O5'
128	NW	501	GTP	O4'-C4'-C5'-O5'
128	NW	501	GTP	C3'-C4'-C5'-O5'
128	Nf	501	GTP	O4'-C4'-C5'-O5'
128	Nf	501	GTP	C3'-C4'-C5'-O5'
128	Ni	501	GTP	C3'-C4'-C5'-O5'
128	O4	502	GTP	O4'-C4'-C5'-O5'
128	O4	502	GTP	C3'-C4'-C5'-O5'
128	R0	501	GTP	O4'-C4'-C5'-O5'
128	R2	502	GTP	C3'-C4'-C5'-O5'
128	R4	501	GTP	O4'-C4'-C5'-O5'
128	R4	501	GTP	C3'-C4'-C5'-O5'
128	T8	501	GTP	O4'-C4'-C5'-O5'
128	U2	501	GTP	C3'-C4'-C5'-O5'
128	U6	501	GTP	O4'-C4'-C5'-O5'
128	U6	501	GTP	C3'-C4'-C5'-O5'
128	U9	501	GTP	C3'-C4'-C5'-O5'
128	V3	501	GTP	O4'-C4'-C5'-O5'
128	V3	501	GTP	C3'-C4'-C5'-O5'
128	V8	501	GTP	O4'-C4'-C5'-O5'
128	V8	501	GTP	C3'-C4'-C5'-O5'
128	W0	501	GTP	O4'-C4'-C5'-O5'
128	W0	501	GTP	C3'-C4'-C5'-O5'
128	W2	501	GTP	O4'-C4'-C5'-O5'
128	W2	501	GTP	C3'-C4'-C5'-O5'
128	W5	501	GTP	C3'-C4'-C5'-O5'
128	W8	501	GTP	C3'-C4'-C5'-O5'
128	X0	501	GTP	C3'-C4'-C5'-O5'
128	X4	501	GTP	O4'-C4'-C5'-O5'
128	X4	501	GTP	C3'-C4'-C5'-O5'
128	Z2	501	GTP	C3'-C4'-C5'-O5'
129	0W	501	GDP	O4'-C4'-C5'-O5'
129	0W	501	GDP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
129	0Y	502	GDP	O4'-C4'-C5'-O5'
129	0Y	502	GDP	C3'-C4'-C5'-O5'
129	1K	501	GDP	O4'-C4'-C5'-O5'
129	1K	501	GDP	C3'-C4'-C5'-O5'
129	Bn	501	GDP	C3'-C4'-C5'-O5'
129	DV	502	GDP	O4'-C4'-C5'-O5'
129	DV	502	GDP	C3'-C4'-C5'-O5'
129	Dk	502	GDP	O4'-C4'-C5'-O5'
129	Dk	502	GDP	C3'-C4'-C5'-O5'
129	ED	502	GDP	O4'-C4'-C5'-O5'
129	ED	502	GDP	C3'-C4'-C5'-O5'
129	FC	501	GDP	O4'-C4'-C5'-O5'
129	FC	501	GDP	C3'-C4'-C5'-O5'
129	FX	501	GDP	C3'-C4'-C5'-O5'
129	JL	501	GDP	O4'-C4'-C5'-O5'
129	Kx	502	GDP	C3'-C4'-C5'-O5'
129	LJ	502	GDP	O4'-C4'-C5'-O5'
129	LJ	502	GDP	C3'-C4'-C5'-O5'
129	Mv	501	GDP	C3'-C4'-C5'-O5'
129	Q2	502	GDP	C3'-C4'-C5'-O5'
129	Q4	502	GDP	C3'-C4'-C5'-O5'
129	Q6	502	GDP	C3'-C4'-C5'-O5'
129	R8	503	GDP	C3'-C4'-C5'-O5'
129	T0	501	GDP	C3'-C4'-C5'-O5'
129	V6	501	GDP	O4'-C4'-C5'-O5'
129	V6	501	GDP	C3'-C4'-C5'-O5'
128	0Q	502	GTP	O4'-C4'-C5'-O5'
128	0Q	502	GTP	C3'-C4'-C5'-O5'
128	0Y	501	GTP	C3'-C4'-C5'-O5'
128	1N	501	GTP	O4'-C4'-C5'-O5'
128	1N	501	GTP	C3'-C4'-C5'-O5'
128	1W	501	GTP	O4'-C4'-C5'-O5'
128	1X	501	GTP	O4'-C4'-C5'-O5'
128	1X	501	GTP	C3'-C4'-C5'-O5'
128	2K	501	GTP	O4'-C4'-C5'-O5'
128	2K	501	GTP	C3'-C4'-C5'-O5'
128	2Y	501	GTP	O4'-C4'-C5'-O5'
128	2Y	501	GTP	C3'-C4'-C5'-O5'
128	3G	501	GTP	C3'-C4'-C5'-O5'
128	A1	501	GTP	C3'-C4'-C5'-O5'
128	AT	501	GTP	O4'-C4'-C5'-O5'
128	An	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
128	Av	501	GTP	O4'-C4'-C5'-O5'
128	Av	501	GTP	C3'-C4'-C5'-O5'
128	Az	501	GTP	C3'-C4'-C5'-O5'
128	B0	501	GTP	O4'-C4'-C5'-O5'
128	B2	501	GTP	C3'-C4'-C5'-O5'
128	B7	501	GTP	O4'-C4'-C5'-O5'
128	Bu	501	GTP	O4'-C4'-C5'-O5'
128	Bu	501	GTP	C3'-C4'-C5'-O5'
128	C0	501	GTP	O4'-C4'-C5'-O5'
128	C0	501	GTP	C3'-C4'-C5'-O5'
128	C1	501	GTP	O4'-C4'-C5'-O5'
128	C1	501	GTP	C3'-C4'-C5'-O5'
128	CK	501	GTP	O4'-C4'-C5'-O5'
128	CM	502	GTP	O4'-C4'-C5'-O5'
128	CM	502	GTP	C3'-C4'-C5'-O5'
128	CS	501	GTP	C3'-C4'-C5'-O5'
128	CX	501	GTP	O4'-C4'-C5'-O5'
128	CZ	501	GTP	C3'-C4'-C5'-O5'
128	Cj	501	GTP	C3'-C4'-C5'-O5'
128	DT	501	GTP	O4'-C4'-C5'-O5'
128	DT	501	GTP	C3'-C4'-C5'-O5'
128	De	501	GTP	O4'-C4'-C5'-O5'
128	Dt	501	GTP	O4'-C4'-C5'-O5'
128	Dt	501	GTP	C3'-C4'-C5'-O5'
128	Du	501	GTP	O4'-C4'-C5'-O5'
128	Du	501	GTP	C3'-C4'-C5'-O5'
128	ED	501	GTP	C3'-C4'-C5'-O5'
128	EL	501	GTP	O4'-C4'-C5'-O5'
128	EL	501	GTP	C3'-C4'-C5'-O5'
128	EQ	501	GTP	O4'-C4'-C5'-O5'
128	EQ	501	GTP	C3'-C4'-C5'-O5'
128	ER	501	GTP	O4'-C4'-C5'-O5'
128	ER	501	GTP	C3'-C4'-C5'-O5'
128	EY	501	GTP	O4'-C4'-C5'-O5'
128	Eq	501	GTP	O4'-C4'-C5'-O5'
128	FI	501	GTP	O4'-C4'-C5'-O5'
128	FI	501	GTP	C3'-C4'-C5'-O5'
128	FJ	501	GTP	O4'-C4'-C5'-O5'
128	FJ	501	GTP	C3'-C4'-C5'-O5'
128	FQ	501	GTP	O4'-C4'-C5'-O5'
128	FQ	501	GTP	C3'-C4'-C5'-O5'
128	FT	502	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
128	Fe	501	GTP	O4'-C4'-C5'-O5'
128	Fe	501	GTP	C3'-C4'-C5'-O5'
128	Fi	501	GTP	O4'-C4'-C5'-O5'
128	Fi	501	GTP	C3'-C4'-C5'-O5'
128	Fv	501	GTP	C3'-C4'-C5'-O5'
128	GF	501	GTP	O4'-C4'-C5'-O5'
128	H6	501	GTP	C3'-C4'-C5'-O5'
128	H8	501	GTP	O4'-C4'-C5'-O5'
128	H8	501	GTP	C3'-C4'-C5'-O5'
128	I4	502	GTP	O4'-C4'-C5'-O5'
128	I4	502	GTP	C3'-C4'-C5'-O5'
128	IX	501	GTP	C3'-C4'-C5'-O5'
128	J0	501	GTP	O4'-C4'-C5'-O5'
128	J0	501	GTP	C3'-C4'-C5'-O5'
128	J6	501	GTP	O4'-C4'-C5'-O5'
128	J8	502	GTP	O4'-C4'-C5'-O5'
128	Jj	501	GTP	O4'-C4'-C5'-O5'
128	Jj	501	GTP	C3'-C4'-C5'-O5'
128	Jl	502	GTP	O4'-C4'-C5'-O5'
128	Jl	502	GTP	C3'-C4'-C5'-O5'
128	Jw	501	GTP	O4'-C4'-C5'-O5'
128	Jy	501	GTP	O4'-C4'-C5'-O5'
128	Jy	501	GTP	C3'-C4'-C5'-O5'
128	K0	501	GTP	O4'-C4'-C5'-O5'
128	K0	501	GTP	C3'-C4'-C5'-O5'
128	K4	501	GTP	O4'-C4'-C5'-O5'
128	KW	501	GTP	C3'-C4'-C5'-O5'
128	KY	501	GTP	O4'-C4'-C5'-O5'
128	KY	501	GTP	C3'-C4'-C5'-O5'
128	Kj	502	GTP	O4'-C4'-C5'-O5'
128	L2	501	GTP	O4'-C4'-C5'-O5'
128	M4	501	GTP	C3'-C4'-C5'-O5'
128	MV	501	GTP	O4'-C4'-C5'-O5'
128	MV	501	GTP	C3'-C4'-C5'-O5'
128	NH	501	GTP	O4'-C4'-C5'-O5'
128	NU	501	GTP	C3'-C4'-C5'-O5'
128	Nh	501	GTP	O4'-C4'-C5'-O5'
128	Nh	501	GTP	C3'-C4'-C5'-O5'
128	R0	501	GTP	C3'-C4'-C5'-O5'
128	R2	502	GTP	O4'-C4'-C5'-O5'
128	S8	501	GTP	O4'-C4'-C5'-O5'
128	S8	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
128	T8	501	GTP	C3'-C4'-C5'-O5'
128	U2	501	GTP	O4'-C4'-C5'-O5'
128	U4	501	GTP	O4'-C4'-C5'-O5'
128	U4	501	GTP	C3'-C4'-C5'-O5'
128	V2	501	GTP	O4'-C4'-C5'-O5'
128	V2	501	GTP	C3'-C4'-C5'-O5'
128	W5	501	GTP	O4'-C4'-C5'-O5'
128	Z2	501	GTP	O4'-C4'-C5'-O5'
129	1A	502	GDP	O4'-C4'-C5'-O5'
129	1A	502	GDP	C3'-C4'-C5'-O5'
129	B6	501	GDP	C3'-C4'-C5'-O5'
129	D0	501	GDP	O4'-C4'-C5'-O5'
129	D0	501	GDP	C3'-C4'-C5'-O5'
129	DG	502	GDP	O4'-C4'-C5'-O5'
129	DG	502	GDP	C3'-C4'-C5'-O5'
129	G6	501	GDP	O4'-C4'-C5'-O5'
129	G6	501	GDP	C3'-C4'-C5'-O5'
129	H4	501	GDP	O4'-C4'-C5'-O5'
129	H4	501	GDP	C3'-C4'-C5'-O5'
129	H8	503	GDP	O4'-C4'-C5'-O5'
129	H8	503	GDP	C3'-C4'-C5'-O5'
129	JL	501	GDP	C3'-C4'-C5'-O5'
129	P8	502	GDP	O4'-C4'-C5'-O5'
129	P8	502	GDP	C3'-C4'-C5'-O5'
129	Q2	502	GDP	O4'-C4'-C5'-O5'
129	T0	501	GDP	O4'-C4'-C5'-O5'
128	BH	501	GTP	C4'-C5'-O5'-PA
128	0R	502	GTP	O4'-C4'-C5'-O5'
128	0R	502	GTP	C3'-C4'-C5'-O5'
128	1H	501	GTP	O4'-C4'-C5'-O5'
128	1H	501	GTP	C3'-C4'-C5'-O5'
128	1W	501	GTP	C3'-C4'-C5'-O5'
128	B5	501	GTP	O4'-C4'-C5'-O5'
128	B5	501	GTP	C3'-C4'-C5'-O5'
128	Es	501	GTP	O4'-C4'-C5'-O5'
128	Es	501	GTP	C3'-C4'-C5'-O5'
128	Eu	501	GTP	O4'-C4'-C5'-O5'
128	Eu	501	GTP	C3'-C4'-C5'-O5'
128	L6	501	GTP	O4'-C4'-C5'-O5'
128	L6	501	GTP	C3'-C4'-C5'-O5'
128	Lu	501	GTP	O4'-C4'-C5'-O5'
128	Lu	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
128	S0	501	GTP	O4'-C4'-C5'-O5'
128	S0	501	GTP	C3'-C4'-C5'-O5'
128	Z6	501	GTP	O4'-C4'-C5'-O5'
128	Z6	501	GTP	C3'-C4'-C5'-O5'
129	0U	501	GDP	O4'-C4'-C5'-O5'
129	0U	501	GDP	C3'-C4'-C5'-O5'
129	1U	501	GDP	C3'-C4'-C5'-O5'
129	1W	502	GDP	O4'-C4'-C5'-O5'
129	1W	502	GDP	C3'-C4'-C5'-O5'
129	B6	501	GDP	O4'-C4'-C5'-O5'
129	V2	502	GDP	C3'-C4'-C5'-O5'
129	V4	501	GDP	C3'-C4'-C5'-O5'
128	BJ	501	GTP	C4'-C5'-O5'-PA
128	D3	501	GTP	C4'-C5'-O5'-PA
128	Ik	501	GTP	C4'-C5'-O5'-PA
128	0A	501	GTP	C3'-C4'-C5'-O5'
128	0F	501	GTP	C3'-C4'-C5'-O5'
128	1A	501	GTP	C3'-C4'-C5'-O5'
128	1C	501	GTP	C3'-C4'-C5'-O5'
128	1S	501	GTP	C3'-C4'-C5'-O5'
128	2A	501	GTP	C3'-C4'-C5'-O5'
128	2I	501	GTP	C3'-C4'-C5'-O5'
128	2L	501	GTP	C3'-C4'-C5'-O5'
128	8M	501	GTP	C3'-C4'-C5'-O5'
128	Ba	501	GTP	C3'-C4'-C5'-O5'
128	Bm	501	GTP	C3'-C4'-C5'-O5'
128	Bw	501	GTP	C3'-C4'-C5'-O5'
128	CU	501	GTP	C3'-C4'-C5'-O5'
128	DX	501	GTP	C3'-C4'-C5'-O5'
128	Dz	501	GTP	C3'-C4'-C5'-O5'
128	FG	501	GTP	C3'-C4'-C5'-O5'
128	G5	501	GTP	C3'-C4'-C5'-O5'
128	J4	501	GTP	C3'-C4'-C5'-O5'
128	K9	501	GTP	C3'-C4'-C5'-O5'
128	LH	501	GTP	C3'-C4'-C5'-O5'
128	N6	501	GTP	C3'-C4'-C5'-O5'
128	NS	501	GTP	C3'-C4'-C5'-O5'
128	O6	501	GTP	C3'-C4'-C5'-O5'
128	Q6	501	GTP	C3'-C4'-C5'-O5'
128	S9	501	GTP	C3'-C4'-C5'-O5'
128	X6	501	GTP	C3'-C4'-C5'-O5'
128	X7	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
128	Y0	501	GTP	C3'-C4'-C5'-O5'
128	Y4	501	GTP	C3'-C4'-C5'-O5'
129	A3	501	GDP	C3'-C4'-C5'-O5'
129	Ap	501	GDP	C3'-C4'-C5'-O5'
129	Bf	501	GDP	C3'-C4'-C5'-O5'
129	Bh	502	GDP	C3'-C4'-C5'-O5'
129	Bs	501	GDP	C3'-C4'-C5'-O5'
129	CK	502	GDP	C3'-C4'-C5'-O5'
129	D8	501	GDP	C3'-C4'-C5'-O5'
129	DK	502	GDP	C3'-C4'-C5'-O5'
129	DT	502	GDP	C3'-C4'-C5'-O5'
129	Dg	501	GDP	C3'-C4'-C5'-O5'
129	Dt	502	GDP	C3'-C4'-C5'-O5'
129	I0	502	GDP	C3'-C4'-C5'-O5'
129	JU	503	GDP	C3'-C4'-C5'-O5'
129	Mt	502	GDP	C3'-C4'-C5'-O5'
129	N2	501	GDP	C3'-C4'-C5'-O5'
129	R6	502	GDP	C3'-C4'-C5'-O5'
129	T4	502	GDP	C3'-C4'-C5'-O5'
129	U6	502	GDP	C3'-C4'-C5'-O5'
128	0A	501	GTP	O4'-C4'-C5'-O5'
128	1A	501	GTP	O4'-C4'-C5'-O5'
128	1T	501	GTP	C3'-C4'-C5'-O5'
128	2C	501	GTP	C3'-C4'-C5'-O5'
128	2L	501	GTP	O4'-C4'-C5'-O5'
128	2U	501	GTP	C3'-C4'-C5'-O5'
128	3I	501	GTP	C3'-C4'-C5'-O5'
128	8M	501	GTP	O4'-C4'-C5'-O5'
128	A4	501	GTP	C3'-C4'-C5'-O5'
128	Ba	501	GTP	O4'-C4'-C5'-O5'
128	Bm	501	GTP	O4'-C4'-C5'-O5'
128	CE	502	GTP	C3'-C4'-C5'-O5'
128	Cv	502	GTP	C3'-C4'-C5'-O5'
128	DX	501	GTP	O4'-C4'-C5'-O5'
128	F0	501	GTP	C3'-C4'-C5'-O5'
128	FE	501	GTP	C3'-C4'-C5'-O5'
128	FG	501	GTP	O4'-C4'-C5'-O5'
128	G5	501	GTP	O4'-C4'-C5'-O5'
128	J4	501	GTP	O4'-C4'-C5'-O5'
128	JK	501	GTP	C3'-C4'-C5'-O5'
128	K6	501	GTP	C3'-C4'-C5'-O5'
128	LJ	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
128	O2	501	GTP	C3'-C4'-C5'-O5'
128	X6	501	GTP	O4'-C4'-C5'-O5'
128	Y4	501	GTP	O4'-C4'-C5'-O5'
128	Z3	501	GTP	C3'-C4'-C5'-O5'
129	1Q	502	GDP	C3'-C4'-C5'-O5'
129	1U	501	GDP	O4'-C4'-C5'-O5'
129	3I	502	GDP	C3'-C4'-C5'-O5'
129	8N	501	GDP	C3'-C4'-C5'-O5'
129	An	502	GDP	C3'-C4'-C5'-O5'
129	Ap	501	GDP	O4'-C4'-C5'-O5'
129	BM	501	GDP	C3'-C4'-C5'-O5'
129	Bf	501	GDP	O4'-C4'-C5'-O5'
129	Bs	501	GDP	O4'-C4'-C5'-O5'
129	Ci	502	GDP	C3'-C4'-C5'-O5'
129	Dt	502	GDP	O4'-C4'-C5'-O5'
129	G8	501	GDP	C3'-C4'-C5'-O5'
129	Kv	503	GDP	C3'-C4'-C5'-O5'
129	Lj	501	GDP	C3'-C4'-C5'-O5'
129	Mt	502	GDP	O4'-C4'-C5'-O5'
129	R6	502	GDP	O4'-C4'-C5'-O5'
129	T4	502	GDP	O4'-C4'-C5'-O5'
129	V2	502	GDP	O4'-C4'-C5'-O5'
129	V4	501	GDP	O4'-C4'-C5'-O5'
128	D1	501	GTP	C4'-C5'-O5'-PA
128	Z7	501	GTP	C4'-C5'-O5'-PA
128	0F	501	GTP	O4'-C4'-C5'-O5'
128	2A	501	GTP	O4'-C4'-C5'-O5'
128	Ay	502	GTP	C3'-C4'-C5'-O5'
128	C8	501	GTP	O4'-C4'-C5'-O5'
128	CU	501	GTP	O4'-C4'-C5'-O5'
128	DV	501	GTP	C3'-C4'-C5'-O5'
128	F5	501	GTP	C3'-C4'-C5'-O5'
128	Fg	501	GTP	C3'-C4'-C5'-O5'
128	Fk	501	GTP	C3'-C4'-C5'-O5'
128	K7	501	GTP	C3'-C4'-C5'-O5'
128	S5	501	GTP	C3'-C4'-C5'-O5'
128	X7	501	GTP	O4'-C4'-C5'-O5'
128	Y0	501	GTP	O4'-C4'-C5'-O5'
128	Y6	501	GTP	C3'-C4'-C5'-O5'
129	CM	503	GDP	C3'-C4'-C5'-O5'
129	DT	502	GDP	O4'-C4'-C5'-O5'
129	DZ	502	GDP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
129	Dg	501	GDP	O4'-C4'-C5'-O5'
129	FG	502	GDP	C3'-C4'-C5'-O5'
129	I0	502	GDP	O4'-C4'-C5'-O5'
128	0C	501	GTP	PB-O3B-PG-O1G
128	8L	501	GTP	PB-O3B-PG-O1G
129	0W	501	GDP	PA-O3A-PB-O1B
129	2M	501	GDP	PA-O3A-PB-O1B
129	B1	502	GDP	PA-O3A-PB-O1B
129	CT	501	GDP	PA-O3A-PB-O1B
129	D2	501	GDP	PA-O3A-PB-O1B
129	DM	502	GDP	PA-O3A-PB-O1B
129	FC	501	GDP	PA-O3A-PB-O1B
129	FP	501	GDP	PA-O3A-PB-O1B
129	G2	501	GDP	PA-O3A-PB-O1B
129	G6	501	GDP	PA-O3A-PB-O1B
129	H6	502	GDP	PA-O3A-PB-O1B
129	H8	503	GDP	PA-O3A-PB-O1B
129	I2	501	GDP	PA-O3A-PB-O1B
129	I4	503	GDP	PA-O3A-PB-O1B
129	JL	501	GDP	PA-O3A-PB-O1B
129	K8	501	GDP	PA-O3A-PB-O1B
129	Kj	503	GDP	PA-O3A-PB-O1B
129	Mi	501	GDP	PA-O3A-PB-O1B
129	U8	502	GDP	PA-O3A-PB-O1B
129	V6	501	GDP	PA-O3A-PB-O1B
129	W8	502	GDP	PA-O3A-PB-O1B
129	X0	502	GDP	PA-O3A-PB-O1B
128	1S	501	GTP	O4'-C4'-C5'-O5'
128	3K	501	GTP	C3'-C4'-C5'-O5'
128	8H	501	GTP	C3'-C4'-C5'-O5'
128	Bh	501	GTP	C3'-C4'-C5'-O5'
128	B1	501	GTP	C3'-C4'-C5'-O5'
128	CI	501	GTP	C3'-C4'-C5'-O5'
128	Dz	501	GTP	O4'-C4'-C5'-O5'
128	Eh	501	GTP	C3'-C4'-C5'-O5'
128	F8	501	GTP	C3'-C4'-C5'-O5'
128	FV	501	GTP	C3'-C4'-C5'-O5'
128	GD	501	GTP	C3'-C4'-C5'-O5'
128	Kv	501	GTP	C3'-C4'-C5'-O5'
128	Kx	501	GTP	C3'-C4'-C5'-O5'
128	MG	501	GTP	C3'-C4'-C5'-O5'
128	N6	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
128	NJ	501	GTP	C3'-C4'-C5'-O5'
128	NS	501	GTP	O4'-C4'-C5'-O5'
128	Q2	501	GTP	C3'-C4'-C5'-O5'
128	Q6	501	GTP	O4'-C4'-C5'-O5'
129	BI	501	GDP	C3'-C4'-C5'-O5'
129	Bj	501	GDP	C3'-C4'-C5'-O5'
129	Bw	503	GDP	C3'-C4'-C5'-O5'
129	DK	502	GDP	O4'-C4'-C5'-O5'
129	Dv	501	GDP	C3'-C4'-C5'-O5'
129	G4	501	GDP	C3'-C4'-C5'-O5'
129	JJ	501	GDP	C3'-C4'-C5'-O5'
129	JU	503	GDP	O4'-C4'-C5'-O5'
129	JY	501	GDP	C3'-C4'-C5'-O5'
129	LT	501	GDP	C3'-C4'-C5'-O5'
129	Mi	501	GDP	C3'-C4'-C5'-O5'
129	R4	502	GDP	C3'-C4'-C5'-O5'
129	W8	502	GDP	C3'-C4'-C5'-O5'
128	0C	501	GTP	PA-O3A-PB-O1B
128	0R	502	GTP	PB-O3A-PA-O1A
128	1Q	501	GTP	PA-O3A-PB-O1B
128	2A	501	GTP	PA-O3A-PB-O1B
128	3G	501	GTP	PB-O3A-PA-O1A
128	3M	501	GTP	PB-O3A-PA-O1A
128	A1	501	GTP	PA-O3A-PB-O1B
128	BU	501	GTP	PB-O3A-PA-O1A
128	Bw	501	GTP	PA-O3A-PB-O1B
128	CG	501	GTP	PA-O3A-PB-O1B
128	CZ	501	GTP	PB-O3A-PA-O1A
128	De	501	GTP	PB-O3A-PA-O1A
128	E4	501	GTP	PB-O3A-PA-O1A
128	Eh	501	GTP	PA-O3A-PB-O1B
128	Ei	501	GTP	PB-O3A-PA-O1A
128	Eq	501	GTP	PA-O3A-PB-O1B
128	F5	501	GTP	PA-O3A-PB-O1B
128	FQ	501	GTP	PB-O3A-PA-O1A
128	Fc	501	GTP	PA-O3A-PB-O1B
128	Ft	501	GTP	PA-O3A-PB-O1B
128	Ft	501	GTP	PB-O3A-PA-O1A
128	G7	501	GTP	PA-O3A-PB-O1B
128	GD	501	GTP	PB-O3A-PA-O1A
128	GI	501	GTP	PA-O3A-PB-O1B
128	H3	501	GTP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
128	H8	501	GTP	PA-O3A-PB-O1B
128	I0	501	GTP	PB-O3A-PA-O1A
128	I1	501	GTP	PA-O3A-PB-O1B
128	I5	501	GTP	PA-O3A-PB-O1B
128	I8	501	GTP	PB-O3A-PA-O1A
128	J0	501	GTP	PB-O3A-PA-O1A
128	J6	501	GTP	PB-O3A-PA-O1A
128	J8	502	GTP	PA-O3A-PB-O1B
128	JI	502	GTP	PA-O3A-PB-O1B
128	JW	502	GTP	PB-O3A-PA-O1A
128	JX	501	GTP	PA-O3A-PB-O1B
128	Jh	501	GTP	PA-O3A-PB-O1B
128	Jj	501	GTP	PB-O3A-PA-O1A
128	K9	501	GTP	PA-O3A-PB-O1B
128	LH	501	GTP	PA-O3A-PB-O1B
128	M4	501	GTP	PA-O3A-PB-O1B
128	MH	501	GTP	PB-O3A-PA-O1A
128	Mt	501	GTP	PA-O3A-PB-O1B
128	Nf	501	GTP	PB-O3A-PA-O1A
128	R2	502	GTP	PA-O3A-PB-O1B
128	T6	501	GTP	PA-O3A-PB-O1B
128	V3	501	GTP	PB-O3A-PA-O1A
128	W5	501	GTP	PA-O3A-PB-O1B
128	Ce	502	GTP	C4'-C5'-O5'-PA
128	EF	501	GTP	C4'-C5'-O5'-PA
128	EH	501	GTP	C4'-C5'-O5'-PA
128	Mt	501	GTP	C4'-C5'-O5'-PA
128	1C	501	GTP	O4'-C4'-C5'-O5'
128	1T	501	GTP	O4'-C4'-C5'-O5'
128	2I	501	GTP	O4'-C4'-C5'-O5'
128	2U	501	GTP	O4'-C4'-C5'-O5'
128	Bw	501	GTP	O4'-C4'-C5'-O5'
128	CE	502	GTP	O4'-C4'-C5'-O5'
128	Cv	502	GTP	O4'-C4'-C5'-O5'
128	FE	501	GTP	O4'-C4'-C5'-O5'
128	K9	501	GTP	O4'-C4'-C5'-O5'
128	LH	501	GTP	O4'-C4'-C5'-O5'
128	LJ	501	GTP	O4'-C4'-C5'-O5'
128	O6	501	GTP	O4'-C4'-C5'-O5'
128	S9	501	GTP	O4'-C4'-C5'-O5'
129	A3	501	GDP	O4'-C4'-C5'-O5'
129	Bh	502	GDP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
129	CK	502	GDP	O4'-C4'-C5'-O5'
129	D8	501	GDP	O4'-C4'-C5'-O5'
129	G8	501	GDP	O4'-C4'-C5'-O5'
129	Lj	501	GDP	O4'-C4'-C5'-O5'
129	U6	502	GDP	O4'-C4'-C5'-O5'
128	1T	501	GTP	C4'-C5'-O5'-PA
128	2U	501	GTP	C4'-C5'-O5'-PA
128	Ay	502	GTP	C4'-C5'-O5'-PA
128	BL	501	GTP	C4'-C5'-O5'-PA
128	C5	501	GTP	C4'-C5'-O5'-PA
128	CG	501	GTP	C4'-C5'-O5'-PA
128	CI	501	GTP	C4'-C5'-O5'-PA
128	CM	502	GTP	C4'-C5'-O5'-PA
128	Cm	501	GTP	C4'-C5'-O5'-PA
128	Di	501	GTP	C4'-C5'-O5'-PA
128	Dr	501	GTP	C4'-C5'-O5'-PA
128	EI	501	GTP	C4'-C5'-O5'-PA
128	Eh	501	GTP	C4'-C5'-O5'-PA
128	FW	501	GTP	C4'-C5'-O5'-PA
128	Ft	501	GTP	C4'-C5'-O5'-PA
128	Fx	501	GTP	C4'-C5'-O5'-PA
128	GF	501	GTP	C4'-C5'-O5'-PA
128	GH	501	GTP	C4'-C5'-O5'-PA
128	GI	501	GTP	C4'-C5'-O5'-PA
128	IW	501	GTP	C4'-C5'-O5'-PA
128	J8	502	GTP	C4'-C5'-O5'-PA
128	K6	501	GTP	C4'-C5'-O5'-PA
128	LJ	501	GTP	C4'-C5'-O5'-PA
128	LU	501	GTP	C4'-C5'-O5'-PA
128	Li	501	GTP	C4'-C5'-O5'-PA
128	M7	501	GTP	C4'-C5'-O5'-PA
128	MG	501	GTP	C4'-C5'-O5'-PA
128	Mu	501	GTP	C4'-C5'-O5'-PA
128	N6	501	GTP	C4'-C5'-O5'-PA
128	Q6	501	GTP	C4'-C5'-O5'-PA
128	R6	501	GTP	C4'-C5'-O5'-PA
128	T2	501	GTP	C4'-C5'-O5'-PA
128	U9	501	GTP	C4'-C5'-O5'-PA
128	V8	501	GTP	C4'-C5'-O5'-PA
128	W2	501	GTP	C4'-C5'-O5'-PA
128	Y1	501	GTP	C4'-C5'-O5'-PA
128	Y6	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
128	2C	501	GTP	O4'-C4'-C5'-O5'
128	A4	501	GTP	O4'-C4'-C5'-O5'
128	F0	501	GTP	O4'-C4'-C5'-O5'
128	Z3	501	GTP	O4'-C4'-C5'-O5'
129	8N	501	GDP	O4'-C4'-C5'-O5'
129	A7	501	GDP	C3'-C4'-C5'-O5'
128	0O	501	GTP	PB-O3A-PA-O5'
128	0R	502	GTP	PB-O3A-PA-O5'
128	0V	501	GTP	PB-O3A-PA-O5'
128	0Y	501	GTP	PB-O3A-PA-O5'
128	1A	501	GTP	PB-O3A-PA-O5'
128	1C	501	GTP	PB-O3A-PA-O5'
128	1G	501	GTP	PB-O3A-PA-O5'
128	1H	501	GTP	PB-O3A-PA-O5'
128	1N	501	GTP	PB-O3A-PA-O5'
128	1Q	501	GTP	PB-O3A-PA-O5'
128	1S	501	GTP	PB-O3A-PA-O5'
128	1W	501	GTP	PB-O3A-PA-O5'
128	1X	501	GTP	PB-O3A-PA-O5'
128	2A	501	GTP	PB-O3A-PA-O5'
128	2E	501	GTP	PB-O3A-PA-O5'
128	2G	501	GTP	PB-O3A-PA-O5'
128	2I	501	GTP	PB-O3A-PA-O5'
128	2K	501	GTP	PB-O3A-PA-O5'
128	2L	501	GTP	PB-O3A-PA-O5'
128	2S	501	GTP	PB-O3A-PA-O5'
128	3G	501	GTP	PB-O3A-PA-O5'
128	3P	501	GTP	PB-O3A-PA-O5'
128	8L	501	GTP	PB-O3A-PA-O5'
128	8M	501	GTP	PB-O3A-PA-O5'
128	A1	501	GTP	PB-O3A-PA-O5'
128	A4	501	GTP	PB-O3A-PA-O5'
128	A9	501	GTP	PB-O3A-PA-O5'
128	AT	501	GTP	PB-O3A-PA-O5'
128	Aj	501	GTP	PB-O3A-PA-O5'
128	Ak	501	GTP	PB-O3A-PA-O5'
128	At	501	GTP	PB-O3A-PA-O5'
128	Az	501	GTP	PB-O3A-PA-O5'
128	B5	501	GTP	PB-O3A-PA-O5'
128	B7	501	GTP	PB-O3A-PA-O5'
128	BB	501	GTP	PB-O3A-PA-O5'
128	BW	501	GTP	PB-O3A-PA-O5'

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Mol	Chain	Res	Type	Atoms
128	BY	501	GTP	PB-O3A-PA-O5'
128	Ba	501	GTP	PB-O3A-PA-O5'
128	Bf	502	GTP	PB-O3A-PA-O5'
128	Bi	501	GTP	PB-O3A-PA-O5'
128	Bl	501	GTP	PB-O3A-PA-O5'
128	Bm	501	GTP	PB-O3A-PA-O5'
128	Bu	501	GTP	PB-O3A-PA-O5'
128	Bw	501	GTP	PB-O3A-PA-O5'
128	By	502	GTP	PB-O3A-PA-O5'
128	C0	501	GTP	PB-O3A-PA-O5'
128	CG	501	GTP	PB-O3A-PA-O5'
128	CS	501	GTP	PB-O3A-PA-O5'
128	CU	501	GTP	PB-O3A-PA-O5'
128	CX	501	GTP	PB-O3A-PA-O5'
128	CZ	501	GTP	PB-O3A-PA-O5'
128	Ce	502	GTP	PB-O3A-PA-O5'
128	Cg	501	GTP	PB-O3A-PA-O5'
128	Cj	501	GTP	PB-O3A-PA-O5'
128	Cr	502	GTP	PB-O3A-PA-O5'
128	Cv	502	GTP	PB-O3A-PA-O5'
128	Cx	501	GTP	PB-O3A-PA-O5'
128	Cz	501	GTP	PB-O3A-PA-O5'
128	DG	501	GTP	PB-O3A-PA-O5'
128	De	501	GTP	PB-O3A-PA-O5'
128	Dm	501	GTP	PB-O3A-PA-O5'
128	Dt	501	GTP	PB-O3A-PA-O5'
128	Dz	501	GTP	PB-O3A-PA-O5'
128	E8	501	GTP	PB-O3A-PA-O5'
128	EF	501	GTP	PB-O3A-PA-O5'
128	EH	501	GTP	PB-O3A-PA-O5'
128	EI	501	GTP	PB-O3A-PA-O5'
128	ER	501	GTP	PB-O3A-PA-O5'
128	EU	501	GTP	PB-O3A-PA-O5'
128	Ed	501	GTP	PB-O3A-PA-O5'
128	El	501	GTP	PB-O3A-PA-O5'
128	Ew	501	GTP	PB-O3A-PA-O5'
128	F0	501	GTP	PB-O3A-PA-O5'
128	F5	501	GTP	PB-O3A-PA-O5'
128	FE	501	GTP	PB-O3A-PA-O5'
128	FJ	501	GTP	PB-O3A-PA-O5'
128	FQ	501	GTP	PB-O3A-PA-O5'
128	FT	502	GTP	PB-O3A-PA-O5'

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Mol	Chain	Res	Type	Atoms
128	FV	501	GTP	PB-O3A-PA-O5'
128	Fc	501	GTP	PB-O3A-PA-O5'
128	Fe	501	GTP	PB-O3A-PA-O5'
128	Fg	501	GTP	PB-O3A-PA-O5'
128	Fi	501	GTP	PB-O3A-PA-O5'
128	Fk	501	GTP	PB-O3A-PA-O5'
128	Fl	501	GTP	PB-O3A-PA-O5'
128	Ft	501	GTP	PB-O3A-PA-O5'
128	Fv	501	GTP	PB-O3A-PA-O5'
128	G0	501	GTP	PB-O3A-PA-O5'
128	G1	501	GTP	PB-O3A-PA-O5'
128	G3	502	GTP	PB-O3A-PA-O5'
128	G5	501	GTP	PB-O3A-PA-O5'
128	GB	501	GTP	PB-O3A-PA-O5'
128	GH	501	GTP	PB-O3A-PA-O5'
128	GI	501	GTP	PB-O3A-PA-O5'
128	H3	501	GTP	PB-O3A-PA-O5'
128	H6	501	GTP	PB-O3A-PA-O5'
128	I0	501	GTP	PB-O3A-PA-O5'
128	I4	502	GTP	PB-O3A-PA-O5'
128	I5	501	GTP	PB-O3A-PA-O5'
128	I8	501	GTP	PB-O3A-PA-O5'
128	Iw	501	GTP	PB-O3A-PA-O5'
128	Iy	501	GTP	PB-O3A-PA-O5'
128	J0	501	GTP	PB-O3A-PA-O5'
128	J2	501	GTP	PB-O3A-PA-O5'
128	J4	501	GTP	PB-O3A-PA-O5'
128	J6	501	GTP	PB-O3A-PA-O5'
128	J8	502	GTP	PB-O3A-PA-O5'
128	JK	501	GTP	PB-O3A-PA-O5'
128	JW	502	GTP	PB-O3A-PA-O5'
128	JX	501	GTP	PB-O3A-PA-O5'
128	Jh	501	GTP	PB-O3A-PA-O5'
128	Jj	501	GTP	PB-O3A-PA-O5'
128	Jl	502	GTP	PB-O3A-PA-O5'
128	Jw	501	GTP	PB-O3A-PA-O5'
128	Jy	501	GTP	PB-O3A-PA-O5'
128	K0	501	GTP	PB-O3A-PA-O5'
128	K4	501	GTP	PB-O3A-PA-O5'
128	K7	501	GTP	PB-O3A-PA-O5'
128	K9	501	GTP	PB-O3A-PA-O5'
128	KH	501	GTP	PB-O3A-PA-O5'

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Mol	Chain	Res	Type	Atoms
128	KI	501	GTP	PB-O3A-PA-O5'
128	KW	501	GTP	PB-O3A-PA-O5'
128	L4	501	GTP	PB-O3A-PA-O5'
128	LJ	501	GTP	PB-O3A-PA-O5'
128	LX	501	GTP	PB-O3A-PA-O5'
128	Li	501	GTP	PB-O3A-PA-O5'
128	Lu	501	GTP	PB-O3A-PA-O5'
128	M0	501	GTP	PB-O3A-PA-O5'
128	M2	501	GTP	PB-O3A-PA-O5'
128	M4	501	GTP	PB-O3A-PA-O5'
128	M6	501	GTP	PB-O3A-PA-O5'
128	M7	501	GTP	PB-O3A-PA-O5'
128	MG	501	GTP	PB-O3A-PA-O5'
128	MV	501	GTP	PB-O3A-PA-O5'
128	Mg	501	GTP	PB-O3A-PA-O5'
128	Mh	501	GTP	PB-O3A-PA-O5'
128	Mt	501	GTP	PB-O3A-PA-O5'
128	N6	501	GTP	PB-O3A-PA-O5'
128	N8	501	GTP	PB-O3A-PA-O5'
128	NF	501	GTP	PB-O3A-PA-O5'
128	NJ	501	GTP	PB-O3A-PA-O5'
128	NS	501	GTP	PB-O3A-PA-O5'
128	NU	501	GTP	PB-O3A-PA-O5'
128	Nf	501	GTP	PB-O3A-PA-O5'
128	P6	501	GTP	PB-O3A-PA-O5'
128	Q6	501	GTP	PB-O3A-PA-O5'
128	R0	501	GTP	PB-O3A-PA-O5'
128	R2	502	GTP	PB-O3A-PA-O5'
128	S0	501	GTP	PB-O3A-PA-O5'
128	S8	501	GTP	PB-O3A-PA-O5'
128	T6	501	GTP	PB-O3A-PA-O5'
128	T8	501	GTP	PB-O3A-PA-O5'
128	U2	501	GTP	PB-O3A-PA-O5'
128	U4	501	GTP	PB-O3A-PA-O5'
128	U9	501	GTP	PB-O3A-PA-O5'
128	V2	501	GTP	PB-O3A-PA-O5'
128	V3	501	GTP	PB-O3A-PA-O5'
128	V8	501	GTP	PB-O3A-PA-O5'
128	W0	501	GTP	PB-O3A-PA-O5'
128	W2	501	GTP	PB-O3A-PA-O5'
128	X4	501	GTP	PB-O3A-PA-O5'
128	X6	501	GTP	PB-O3A-PA-O5'

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Mol	Chain	Res	Type	Atoms
128	Y4	501	GTP	PB-O3A-PA-O5'
128	Z0	501	GTP	PB-O3A-PA-O5'
128	Z3	501	GTP	PB-O3A-PA-O5'
128	Z6	501	GTP	PB-O3A-PA-O5'
128	0R	502	GTP	C4'-C5'-O5'-PA
128	C9	501	GTP	C4'-C5'-O5'-PA
128	Ct	501	GTP	C4'-C5'-O5'-PA
128	Dm	501	GTP	C4'-C5'-O5'-PA
128	Dw	501	GTP	C4'-C5'-O5'-PA
128	FV	501	GTP	C4'-C5'-O5'-PA
128	J4	501	GTP	C4'-C5'-O5'-PA
128	Jh	501	GTP	C4'-C5'-O5'-PA
128	T4	501	GTP	C4'-C5'-O5'-PA
128	3I	501	GTP	O4'-C4'-C5'-O5'
128	8L	501	GTP	C3'-C4'-C5'-O5'
128	BY	501	GTP	C3'-C4'-C5'-O5'
128	Bz	501	GTP	C3'-C4'-C5'-O5'
128	Cz	501	GTP	C3'-C4'-C5'-O5'
128	El	501	GTP	C3'-C4'-C5'-O5'
128	Fc	501	GTP	C3'-C4'-C5'-O5'
128	G7	501	GTP	C3'-C4'-C5'-O5'
128	GH	501	GTP	C3'-C4'-C5'-O5'
128	JK	501	GTP	O4'-C4'-C5'-O5'
128	K6	501	GTP	O4'-C4'-C5'-O5'
128	P6	501	GTP	C3'-C4'-C5'-O5'
129	0M	502	GDP	C3'-C4'-C5'-O5'
129	3I	502	GDP	O4'-C4'-C5'-O5'
129	BO	501	GDP	C3'-C4'-C5'-O5'
129	DM	502	GDP	C3'-C4'-C5'-O5'
129	FI	502	GDP	C3'-C4'-C5'-O5'
129	M6	502	GDP	C3'-C4'-C5'-O5'
129	N2	501	GDP	O4'-C4'-C5'-O5'
128	8I	501	GTP	PB-O3B-PG-O1G
128	Ag	501	GTP	PB-O3B-PG-O1G
128	Eu	501	GTP	PB-O3B-PG-O1G
128	X7	501	GTP	PB-O3B-PG-O1G
129	1A	502	GDP	PA-O3A-PB-O1B
129	A7	501	GDP	PA-O3A-PB-O1B
129	C6	501	GDP	PA-O3A-PB-O1B
129	D4	501	GDP	PA-O3A-PB-O1B
129	Dz	502	GDP	PA-O3A-PB-O1B
129	Eu	502	GDP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
129	G4	501	GDP	PA-O3A-PB-O1B
129	GB	502	GDP	PA-O3A-PB-O1B
129	Ij	501	GDP	PA-O3A-PB-O1B
129	Jj	502	GDP	PA-O3A-PB-O1B
129	N2	501	GDP	PA-O3A-PB-O1B
129	U6	502	GDP	PA-O3A-PB-O1B
128	0C	501	GTP	PB-O3B-PG-O3G
128	0O	501	GTP	PB-O3B-PG-O3G
128	2G	501	GTP	PB-O3B-PG-O2G
128	2G	501	GTP	PB-O3B-PG-O3G
128	8H	501	GTP	PB-O3B-PG-O3G
128	Bz	501	GTP	PB-O3B-PG-O2G
128	D5	501	GTP	PB-O3B-PG-O2G
128	DH	501	GTP	PB-O3B-PG-O3G
128	FG	501	GTP	PB-O3B-PG-O3G
128	G3	502	GTP	PB-O3B-PG-O2G
128	G3	502	GTP	PB-O3B-PG-O3G
128	IW	501	GTP	PB-O3B-PG-O2G
128	L2	501	GTP	PB-O3B-PG-O3G
128	L6	501	GTP	PB-O3B-PG-O3G
128	M2	501	GTP	PB-O3B-PG-O2G
128	M2	501	GTP	PB-O3B-PG-O3G
128	M6	501	GTP	PB-O3B-PG-O2G
128	R0	501	GTP	PB-O3B-PG-O3G
128	T4	501	GTP	PB-O3B-PG-O3G
129	0W	501	GDP	PA-O3A-PB-O3B
129	A9	502	GDP	PA-O3A-PB-O3B
129	Bh	502	GDP	PA-O3A-PB-O2B
129	CT	501	GDP	PA-O3A-PB-O3B
129	CZ	502	GDP	PA-O3A-PB-O3B
129	EJ	501	GDP	PA-O3A-PB-O2B
129	FP	501	GDP	PA-O3A-PB-O3B
129	G0	502	GDP	PA-O3A-PB-O3B
129	G2	501	GDP	PA-O3A-PB-O3B
129	G8	501	GDP	PA-O3A-PB-O2B
129	G8	501	GDP	PA-O3A-PB-O3B
129	H6	502	GDP	PA-O3A-PB-O3B
129	JL	501	GDP	PA-O3A-PB-O3B
129	Jy	502	GDP	PA-O3A-PB-O2B
129	K4	502	GDP	PA-O3A-PB-O2B
129	KL	502	GDP	PA-O3A-PB-O2B
129	Mg	502	GDP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
129	U8	502	GDP	PA-O3A-PB-O3B
129	X0	502	GDP	PA-O3A-PB-O3B
128	3O	501	GTP	C3'-C4'-C5'-O5'
128	BG	501	GTP	O4'-C4'-C5'-O5'
128	Bi	501	GTP	C3'-C4'-C5'-O5'
128	Ct	501	GTP	C3'-C4'-C5'-O5'
128	DK	501	GTP	C3'-C4'-C5'-O5'
128	Df	501	GTP	C3'-C4'-C5'-O5'
128	F1	501	GTP	C3'-C4'-C5'-O5'
128	Fp	501	GTP	C3'-C4'-C5'-O5'
128	IW	501	GTP	C3'-C4'-C5'-O5'
128	K7	501	GTP	O4'-C4'-C5'-O5'
128	Lv	501	GTP	C3'-C4'-C5'-O5'
128	N8	501	GTP	C3'-C4'-C5'-O5'
128	O2	501	GTP	O4'-C4'-C5'-O5'
128	P8	501	GTP	C3'-C4'-C5'-O5'
128	R8	502	GTP	C3'-C4'-C5'-O5'
128	S2	501	GTP	C3'-C4'-C5'-O5'
128	T2	501	GTP	C3'-C4'-C5'-O5'
128	T6	501	GTP	C3'-C4'-C5'-O5'
128	U7	501	GTP	C3'-C4'-C5'-O5'
128	W4	501	GTP	C3'-C4'-C5'-O5'
129	1E	501	GDP	C3'-C4'-C5'-O5'
129	Al	501	GDP	C3'-C4'-C5'-O5'
129	Bl	502	GDP	C3'-C4'-C5'-O5'
129	Ci	502	GDP	O4'-C4'-C5'-O5'
129	E4	502	GDP	C3'-C4'-C5'-O5'
129	EU	502	GDP	C3'-C4'-C5'-O5'
129	F6	501	GDP	C3'-C4'-C5'-O5'
129	FK	501	GDP	C3'-C4'-C5'-O5'
129	G0	502	GDP	C3'-C4'-C5'-O5'
129	K0	502	GDP	C3'-C4'-C5'-O5'
129	KH	502	GDP	C3'-C4'-C5'-O5'
129	Mg	502	GDP	C3'-C4'-C5'-O5'
129	N0	502	GDP	C3'-C4'-C5'-O5'
129	U8	502	GDP	C3'-C4'-C5'-O5'
129	V8	502	GDP	C3'-C4'-C5'-O5'
128	1S	501	GTP	C4'-C5'-O5'-PA
128	Av	501	GTP	C4'-C5'-O5'-PA
128	B0	501	GTP	C4'-C5'-O5'-PA
128	CZ	501	GTP	C4'-C5'-O5'-PA
128	E0	502	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
128	EI	501	GTP	C4'-C5'-O5'-PA
128	FI	501	GTP	C4'-C5'-O5'-PA
128	0Q	502	GTP	PB-O3A-PA-O1A
128	1S	501	GTP	PA-O3A-PB-O1B
128	2U	501	GTP	PA-O3A-PB-O2B
128	3K	501	GTP	PB-O3A-PA-O1A
128	3O	501	GTP	PB-O3A-PA-O1A
128	8M	501	GTP	PA-O3A-PB-O1B
128	Ag	501	GTP	PA-O3A-PB-O2B
128	BW	501	GTP	PA-O3A-PB-O2B
128	C5	501	GTP	PB-O3A-PA-O2A
128	CK	501	GTP	PB-O3A-PA-O1A
128	Cx	501	GTP	PA-O3A-PB-O2B
128	DE	501	GTP	PA-O3A-PB-O2B
128	DV	501	GTP	PG-O3B-PB-O1B
128	DZ	501	GTP	PA-O3A-PB-O2B
128	Du	501	GTP	PA-O3A-PB-O2B
128	E0	502	GTP	PB-O3A-PA-O1A
128	E1	501	GTP	PA-O3A-PB-O2B
128	EH	501	GTP	PA-O3A-PB-O1B
128	Ew	501	GTP	PB-O3A-PA-O1A
128	GF	501	GTP	PA-O3A-PB-O2B
128	GI	501	GTP	PB-O3A-PA-O1A
128	IK	501	GTP	PB-O3A-PA-O1A
128	J0	501	GTP	PA-O3A-PB-O1B
128	Kj	502	GTP	PA-O3A-PB-O2B
128	Kx	501	GTP	PA-O3A-PB-O2B
128	Lv	501	GTP	PB-O3A-PA-O1A
128	Mu	501	GTP	PA-O3A-PB-O2B
128	N6	501	GTP	PA-O3A-PB-O2B
128	NW	501	GTP	PA-O3A-PB-O2B
128	Nh	501	GTP	PA-O3A-PB-O1B
128	P8	501	GTP	PA-O3A-PB-O2B
128	Q2	501	GTP	PA-O3A-PB-O2B
128	Q6	501	GTP	PA-O3A-PB-O2B
128	R6	501	GTP	PA-O3A-PB-O2B
128	S5	501	GTP	PA-O3A-PB-O2B
128	U9	501	GTP	PA-O3A-PB-O1B
128	V2	501	GTP	PB-O3A-PA-O1A
128	W5	501	GTP	PB-O3A-PA-O1A
128	Y6	501	GTP	PA-O3A-PB-O2B
128	Z2	501	GTP	PB-O3A-PA-O1A

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Mol	Chain	Res	Type	Atoms
128	0M	501	GTP	C3'-C4'-C5'-O5'
128	1D	501	GTP	C3'-C4'-C5'-O5'
128	2W	501	GTP	C3'-C4'-C5'-O5'
128	E6	501	GTP	C3'-C4'-C5'-O5'
128	EU	501	GTP	C3'-C4'-C5'-O5'
128	Fg	501	GTP	O4'-C4'-C5'-O5'
128	O0	501	GTP	C3'-C4'-C5'-O5'
129	0I	503	GDP	C3'-C4'-C5'-O5'
129	1M	501	GDP	C3'-C4'-C5'-O5'
129	G2	501	GDP	C3'-C4'-C5'-O5'
129	Kj	503	GDP	C3'-C4'-C5'-O5'
128	0C	501	GTP	C4'-C5'-O5'-PA
128	0M	501	GTP	C4'-C5'-O5'-PA
128	1H	501	GTP	C4'-C5'-O5'-PA
128	2A	501	GTP	C4'-C5'-O5'-PA
128	2K	501	GTP	C4'-C5'-O5'-PA
128	2W	501	GTP	C4'-C5'-O5'-PA
128	3A	501	GTP	C4'-C5'-O5'-PA
128	3I	501	GTP	C4'-C5'-O5'-PA
128	3K	501	GTP	C4'-C5'-O5'-PA
128	3M	501	GTP	C4'-C5'-O5'-PA
128	3O	501	GTP	C4'-C5'-O5'-PA
128	A1	501	GTP	C4'-C5'-O5'-PA
128	At	501	GTP	C4'-C5'-O5'-PA
128	BW	501	GTP	C4'-C5'-O5'-PA
128	Bi	501	GTP	C4'-C5'-O5'-PA
128	Bz	501	GTP	C4'-C5'-O5'-PA
128	Cg	501	GTP	C4'-C5'-O5'-PA
128	DE	501	GTP	C4'-C5'-O5'-PA
128	DM	501	GTP	C4'-C5'-O5'-PA
128	Dk	501	GTP	C4'-C5'-O5'-PA
128	Du	501	GTP	C4'-C5'-O5'-PA
128	E1	501	GTP	C4'-C5'-O5'-PA
128	EU	501	GTP	C4'-C5'-O5'-PA
128	F1	501	GTP	C4'-C5'-O5'-PA
128	F3	501	GTP	C4'-C5'-O5'-PA
128	Fr	501	GTP	C4'-C5'-O5'-PA
128	G7	501	GTP	C4'-C5'-O5'-PA
128	I4	502	GTP	C4'-C5'-O5'-PA
128	IL	501	GTP	C4'-C5'-O5'-PA
128	J0	501	GTP	C4'-C5'-O5'-PA
128	Jj	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
128	KW	501	GTP	C4'-C5'-O5'-PA
128	Lh	501	GTP	C4'-C5'-O5'-PA
128	M2	501	GTP	C4'-C5'-O5'-PA
128	Mg	501	GTP	C4'-C5'-O5'-PA
128	N0	501	GTP	C4'-C5'-O5'-PA
128	O0	501	GTP	C4'-C5'-O5'-PA
128	O4	502	GTP	C4'-C5'-O5'-PA
128	O8	501	GTP	C4'-C5'-O5'-PA
128	P6	501	GTP	C4'-C5'-O5'-PA
128	S2	501	GTP	C4'-C5'-O5'-PA
128	W5	501	GTP	C4'-C5'-O5'-PA
128	X6	501	GTP	C4'-C5'-O5'-PA
128	2G	501	GTP	C3'-C4'-C5'-O5'
128	3K	501	GTP	O4'-C4'-C5'-O5'
128	8H	501	GTP	O4'-C4'-C5'-O5'
128	Ay	502	GTP	O4'-C4'-C5'-O5'
128	Bh	501	GTP	O4'-C4'-C5'-O5'
128	CI	501	GTP	O4'-C4'-C5'-O5'
128	DV	501	GTP	O4'-C4'-C5'-O5'
128	F5	501	GTP	O4'-C4'-C5'-O5'
128	F8	501	GTP	O4'-C4'-C5'-O5'
128	FV	501	GTP	O4'-C4'-C5'-O5'
128	Fk	501	GTP	O4'-C4'-C5'-O5'
128	MG	501	GTP	O4'-C4'-C5'-O5'
128	NJ	501	GTP	O4'-C4'-C5'-O5'
128	S5	501	GTP	O4'-C4'-C5'-O5'
128	Y6	501	GTP	O4'-C4'-C5'-O5'
129	0Q	503	GDP	C3'-C4'-C5'-O5'
129	1Q	502	GDP	O4'-C4'-C5'-O5'
129	An	502	GDP	O4'-C4'-C5'-O5'
129	BM	501	GDP	O4'-C4'-C5'-O5'
129	FG	502	GDP	O4'-C4'-C5'-O5'
129	G4	501	GDP	O4'-C4'-C5'-O5'
129	H6	502	GDP	C3'-C4'-C5'-O5'
129	JJ	501	GDP	O4'-C4'-C5'-O5'
129	Kv	503	GDP	O4'-C4'-C5'-O5'
129	LT	501	GDP	O4'-C4'-C5'-O5'
129	Mi	501	GDP	O4'-C4'-C5'-O5'
128	0Q	502	GTP	C5'-O5'-PA-O2A
128	2C	501	GTP	C5'-O5'-PA-O1A
128	3C	501	GTP	C5'-O5'-PA-O2A
128	3O	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
128	3S	501	GTP	C5'-O5'-PA-O2A
128	Az	501	GTP	C5'-O5'-PA-O3A
128	B0	501	GTP	C5'-O5'-PA-O2A
128	B5	501	GTP	C5'-O5'-PA-O3A
128	BY	501	GTP	C5'-O5'-PA-O1A
128	Bf	502	GTP	C5'-O5'-PA-O3A
128	Bi	501	GTP	C5'-O5'-PA-O1A
128	Bl	501	GTP	C5'-O5'-PA-O3A
128	Bm	501	GTP	C5'-O5'-PA-O3A
128	CR	502	GTP	C5'-O5'-PA-O1A
128	DH	501	GTP	C5'-O5'-PA-O2A
128	DK	501	GTP	C5'-O5'-PA-O2A
128	DM	501	GTP	C5'-O5'-PA-O2A
128	E8	501	GTP	C5'-O5'-PA-O1A
128	E8	501	GTP	C5'-O5'-PA-O2A
128	EL	501	GTP	C5'-O5'-PA-O3A
128	EL	501	GTP	C5'-O5'-PA-O2A
128	Eq	501	GTP	C5'-O5'-PA-O2A
128	Fc	501	GTP	C5'-O5'-PA-O1A
128	GD	501	GTP	C5'-O5'-PA-O2A
128	Ii	501	GTP	C5'-O5'-PA-O2A
128	Kl	501	GTP	C5'-O5'-PA-O3A
128	Kl	501	GTP	C5'-O5'-PA-O2A
128	L4	501	GTP	C5'-O5'-PA-O2A
128	NF	501	GTP	C5'-O5'-PA-O1A
128	O2	501	GTP	C5'-O5'-PA-O1A
128	R8	502	GTP	C5'-O5'-PA-O2A
128	S2	501	GTP	C5'-O5'-PA-O2A
128	U2	501	GTP	C5'-O5'-PA-O3A
128	V8	501	GTP	C5'-O5'-PA-O1A
128	W8	501	GTP	C5'-O5'-PA-O2A
128	X0	501	GTP	C5'-O5'-PA-O1A
128	Y4	501	GTP	C5'-O5'-PA-O1A
128	Z3	501	GTP	C5'-O5'-PA-O1A
129	0A	502	GDP	C5'-O5'-PA-O1A
129	0I	503	GDP	C5'-O5'-PA-O1A
129	0K	502	GDP	C5'-O5'-PA-O1A
129	0O	502	GDP	C5'-O5'-PA-O1A
129	0U	501	GDP	C5'-O5'-PA-O1A
129	0W	501	GDP	C5'-O5'-PA-O1A
129	1C	502	GDP	C5'-O5'-PA-O1A
129	1Q	502	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
129	1S	502	GDP	C5'-O5'-PA-O1A
129	2A	502	GDP	C5'-O5'-PA-O1A
129	2C	502	GDP	C5'-O5'-PA-O1A
129	2E	502	GDP	C5'-O5'-PA-O1A
129	2M	501	GDP	C5'-O5'-PA-O1A
129	2U	502	GDP	C5'-O5'-PA-O1A
129	3C	502	GDP	C5'-O5'-PA-O1A
129	A3	501	GDP	C5'-O5'-PA-O1A
129	Al	501	GDP	C5'-O5'-PA-O1A
129	Ap	501	GDP	C5'-O5'-PA-O1A
129	Ay	503	GDP	C5'-O5'-PA-O1A
129	B1	501	GDP	C5'-O5'-PA-O3A
129	B5	502	GDP	C5'-O5'-PA-O1A
129	B6	501	GDP	C5'-O5'-PA-O1A
129	B8	501	GDP	C5'-O5'-PA-O1A
129	BM	501	GDP	C5'-O5'-PA-O1A
129	Bf	501	GDP	C5'-O5'-PA-O1A
129	Bj	501	GDP	C5'-O5'-PA-O1A
129	Bl	502	GDP	C5'-O5'-PA-O1A
129	Bs	501	GDP	C5'-O5'-PA-O1A
129	Bw	503	GDP	C5'-O5'-PA-O1A
129	By	503	GDP	C5'-O5'-PA-O1A
129	C2	501	GDP	C5'-O5'-PA-O1A
129	C4	501	GDP	C5'-O5'-PA-O1A
129	C8	502	GDP	C5'-O5'-PA-O1A
129	CK	502	GDP	C5'-O5'-PA-O1A
129	CM	503	GDP	C5'-O5'-PA-O1A
129	CV	501	GDP	C5'-O5'-PA-O1A
129	CX	502	GDP	C5'-O5'-PA-O1A
129	Ci	502	GDP	C5'-O5'-PA-O1A
129	Cm	502	GDP	C5'-O5'-PA-O1A
129	Cr	501	GDP	C5'-O5'-PA-O1A
129	DR	502	GDP	C5'-O5'-PA-O1A
129	De	502	GDP	C5'-O5'-PA-O1A
129	Dg	501	GDP	C5'-O5'-PA-O1A
129	Dr	502	GDP	C5'-O5'-PA-O1A
129	Dt	502	GDP	C5'-O5'-PA-O1A
129	Dx	501	GDP	C5'-O5'-PA-O3A
129	E0	501	GDP	C5'-O5'-PA-O1A
129	E2	501	GDP	C5'-O5'-PA-O1A
129	E6	502	GDP	C5'-O5'-PA-O1A
129	ED	502	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
129	EF	502	GDP	C5'-O5'-PA-O1A
129	ES	501	GDP	C5'-O5'-PA-O1A
129	EU	502	GDP	C5'-O5'-PA-O1A
129	EW	501	GDP	C5'-O5'-PA-O1A
129	EY	502	GDP	C5'-O5'-PA-O1A
129	Ed	502	GDP	C5'-O5'-PA-O1A
129	Eh	502	GDP	C5'-O5'-PA-O1A
129	Ej	501	GDP	C5'-O5'-PA-O1A
129	Es	502	GDP	C5'-O5'-PA-O1A
129	Ew	502	GDP	C5'-O5'-PA-O3A
129	F0	502	GDP	C5'-O5'-PA-O1A
129	FK	501	GDP	C5'-O5'-PA-O1A
129	FT	503	GDP	C5'-O5'-PA-O1A
129	FV	502	GDP	C5'-O5'-PA-O1A
129	Fc	502	GDP	C5'-O5'-PA-O1A
129	Fe	502	GDP	C5'-O5'-PA-O1A
129	Fk	502	GDP	C5'-O5'-PA-O1A
129	Fp	502	GDP	C5'-O5'-PA-O1A
129	Fr	502	GDP	C5'-O5'-PA-O1A
129	Ft	502	GDP	C5'-O5'-PA-O1A
129	Fv	502	GDP	C5'-O5'-PA-O1A
129	G0	502	GDP	C5'-O5'-PA-O1A
129	G6	501	GDP	C5'-O5'-PA-O1A
129	GB	502	GDP	C5'-O5'-PA-O1A
129	H4	501	GDP	C5'-O5'-PA-O1A
129	H6	502	GDP	C5'-O5'-PA-O1A
129	H8	503	GDP	C5'-O5'-PA-O1A
129	I0	502	GDP	C5'-O5'-PA-O1A
129	IW	502	GDP	C5'-O5'-PA-O1A
129	Iw	502	GDP	C5'-O5'-PA-O1A
129	J0	502	GDP	C5'-O5'-PA-O1A
129	J4	502	GDP	C5'-O5'-PA-O1A
129	J8	503	GDP	C5'-O5'-PA-O1A
129	JU	503	GDP	C5'-O5'-PA-O1A
129	JW	503	GDP	C5'-O5'-PA-O1A
129	JY	501	GDP	C5'-O5'-PA-O1A
129	Jh	503	GDP	C5'-O5'-PA-O1A
129	Jl	503	GDP	C5'-O5'-PA-O1A
129	Ju	501	GDP	C5'-O5'-PA-O1A
129	Jy	502	GDP	C5'-O5'-PA-O1A
129	K0	502	GDP	C5'-O5'-PA-O1A
129	K4	502	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
129	K6	502	GDP	C5'-O5'-PA-O1A
129	K8	501	GDP	C5'-O5'-PA-O1A
129	KU	502	GDP	C5'-O5'-PA-O1A
129	Kh	501	GDP	C5'-O5'-PA-O1A
129	Kj	503	GDP	C5'-O5'-PA-O1A
129	Kl	502	GDP	C5'-O5'-PA-O1A
129	L0	501	GDP	C5'-O5'-PA-O1A
129	L4	502	GDP	C5'-O5'-PA-O1A
129	L6	502	GDP	C5'-O5'-PA-O1A
129	LX	502	GDP	C5'-O5'-PA-O1A
129	Lj	501	GDP	C5'-O5'-PA-O1A
129	Lu	502	GDP	C5'-O5'-PA-O1A
129	Lw	501	GDP	C5'-O5'-PA-O1A
129	M2	502	GDP	C5'-O5'-PA-O1A
129	M8	501	GDP	C5'-O5'-PA-O1A
129	MG	502	GDP	C5'-O5'-PA-O1A
129	MI	501	GDP	C5'-O5'-PA-O1A
129	MV	502	GDP	C5'-O5'-PA-O1A
129	Mg	502	GDP	C5'-O5'-PA-O1A
129	N0	502	GDP	C5'-O5'-PA-O1A
129	N2	501	GDP	C5'-O5'-PA-O1A
129	N6	502	GDP	C5'-O5'-PA-O1A
129	N8	502	GDP	C5'-O5'-PA-O1A
129	NS	502	GDP	C5'-O5'-PA-O1A
129	Nf	502	GDP	C5'-O5'-PA-O1A
129	O2	502	GDP	C5'-O5'-PA-O1A
129	O8	502	GDP	C5'-O5'-PA-O1A
129	P4	503	GDP	C5'-O5'-PA-O1A
129	Q0	501	GDP	C5'-O5'-PA-O1A
129	Q8	501	GDP	C5'-O5'-PA-O1A
129	R0	502	GDP	C5'-O5'-PA-O1A
129	R4	502	GDP	C5'-O5'-PA-O1A
129	S6	501	GDP	C5'-O5'-PA-O1A
129	S8	502	GDP	C5'-O5'-PA-O1A
129	T4	502	GDP	C5'-O5'-PA-O1A
129	U2	502	GDP	C5'-O5'-PA-O1A
129	U4	502	GDP	C5'-O5'-PA-O1A
129	V4	501	GDP	C5'-O5'-PA-O1A
129	V6	501	GDP	C5'-O5'-PA-O1A
129	X2	501	GDP	C5'-O5'-PA-O1A
129	X8	501	GDP	C5'-O5'-PA-O1A
129	Y2	501	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
129	Y4	502	GDP	C5'-O5'-PA-O1A
129	Z2	502	GDP	C5'-O5'-PA-O1A
129	Z8	501	GDP	C5'-O5'-PA-O1A
128	0A	501	GTP	C4'-C5'-O5'-PA
128	0F	501	GTP	C4'-C5'-O5'-PA
128	0I	502	GTP	C4'-C5'-O5'-PA
128	0K	501	GTP	C4'-C5'-O5'-PA
128	0V	501	GTP	C4'-C5'-O5'-PA
128	0Y	501	GTP	C4'-C5'-O5'-PA
128	1L	501	GTP	C4'-C5'-O5'-PA
128	1N	501	GTP	C4'-C5'-O5'-PA
128	1Q	501	GTP	C4'-C5'-O5'-PA
128	1W	501	GTP	C4'-C5'-O5'-PA
128	1X	501	GTP	C4'-C5'-O5'-PA
128	2I	501	GTP	C4'-C5'-O5'-PA
128	2S	501	GTP	C4'-C5'-O5'-PA
128	2Y	501	GTP	C4'-C5'-O5'-PA
128	3C	501	GTP	C4'-C5'-O5'-PA
128	3G	501	GTP	C4'-C5'-O5'-PA
128	3P	501	GTP	C4'-C5'-O5'-PA
128	3S	501	GTP	C4'-C5'-O5'-PA
128	8H	501	GTP	C4'-C5'-O5'-PA
128	8I	501	GTP	C4'-C5'-O5'-PA
128	8M	501	GTP	C4'-C5'-O5'-PA
128	A2	501	GTP	C4'-C5'-O5'-PA
128	A4	501	GTP	C4'-C5'-O5'-PA
128	AT	501	GTP	C4'-C5'-O5'-PA
128	Ag	501	GTP	C4'-C5'-O5'-PA
128	Ak	501	GTP	C4'-C5'-O5'-PA
128	An	501	GTP	C4'-C5'-O5'-PA
128	Ao	501	GTP	C4'-C5'-O5'-PA
128	B2	501	GTP	C4'-C5'-O5'-PA
128	BB	501	GTP	C4'-C5'-O5'-PA
128	Bh	501	GTP	C4'-C5'-O5'-PA
128	Bl	501	GTP	C4'-C5'-O5'-PA
128	Bm	501	GTP	C4'-C5'-O5'-PA
128	Bo	501	GTP	C4'-C5'-O5'-PA
128	Bw	501	GTP	C4'-C5'-O5'-PA
128	By	502	GTP	C4'-C5'-O5'-PA
128	C0	501	GTP	C4'-C5'-O5'-PA
128	C1	501	GTP	C4'-C5'-O5'-PA
128	CE	502	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
128	CK	501	GTP	C4'-C5'-O5'-PA
128	CX	501	GTP	C4'-C5'-O5'-PA
128	Cj	501	GTP	C4'-C5'-O5'-PA
128	Cr	502	GTP	C4'-C5'-O5'-PA
128	Cx	501	GTP	C4'-C5'-O5'-PA
128	DG	501	GTP	C4'-C5'-O5'-PA
128	DH	501	GTP	C4'-C5'-O5'-PA
128	DR	501	GTP	C4'-C5'-O5'-PA
128	DT	501	GTP	C4'-C5'-O5'-PA
128	DX	501	GTP	C4'-C5'-O5'-PA
128	DZ	501	GTP	C4'-C5'-O5'-PA
128	De	501	GTP	C4'-C5'-O5'-PA
128	Df	501	GTP	C4'-C5'-O5'-PA
128	Dt	501	GTP	C4'-C5'-O5'-PA
128	Dz	501	GTP	C4'-C5'-O5'-PA
128	E4	501	GTP	C4'-C5'-O5'-PA
128	E6	501	GTP	C4'-C5'-O5'-PA
128	ED	501	GTP	C4'-C5'-O5'-PA
128	EL	501	GTP	C4'-C5'-O5'-PA
128	EV	501	GTP	C4'-C5'-O5'-PA
128	Ei	501	GTP	C4'-C5'-O5'-PA
128	Eq	501	GTP	C4'-C5'-O5'-PA
128	Es	501	GTP	C4'-C5'-O5'-PA
128	Eu	501	GTP	C4'-C5'-O5'-PA
128	Ew	501	GTP	C4'-C5'-O5'-PA
128	F0	501	GTP	C4'-C5'-O5'-PA
128	F5	501	GTP	C4'-C5'-O5'-PA
128	F8	501	GTP	C4'-C5'-O5'-PA
128	FE	501	GTP	C4'-C5'-O5'-PA
128	FG	501	GTP	C4'-C5'-O5'-PA
128	FQ	501	GTP	C4'-C5'-O5'-PA
128	FT	502	GTP	C4'-C5'-O5'-PA
128	Fc	501	GTP	C4'-C5'-O5'-PA
128	Fi	501	GTP	C4'-C5'-O5'-PA
128	Fk	501	GTP	C4'-C5'-O5'-PA
128	Fp	501	GTP	C4'-C5'-O5'-PA
128	Fv	501	GTP	C4'-C5'-O5'-PA
128	G1	501	GTP	C4'-C5'-O5'-PA
128	GB	501	GTP	C4'-C5'-O5'-PA
128	GD	501	GTP	C4'-C5'-O5'-PA
128	H2	501	GTP	C4'-C5'-O5'-PA
128	H3	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
128	H6	501	GTP	C4'-C5'-O5'-PA
128	H8	501	GTP	C4'-C5'-O5'-PA
128	I0	501	GTP	C4'-C5'-O5'-PA
128	I1	501	GTP	C4'-C5'-O5'-PA
128	I5	501	GTP	C4'-C5'-O5'-PA
128	I8	501	GTP	C4'-C5'-O5'-PA
128	IK	501	GTP	C4'-C5'-O5'-PA
128	IX	501	GTP	C4'-C5'-O5'-PA
128	Iy	501	GTP	C4'-C5'-O5'-PA
128	J2	501	GTP	C4'-C5'-O5'-PA
128	J6	501	GTP	C4'-C5'-O5'-PA
128	JI	502	GTP	C4'-C5'-O5'-PA
128	JU	501	GTP	C4'-C5'-O5'-PA
128	JW	502	GTP	C4'-C5'-O5'-PA
128	JX	501	GTP	C4'-C5'-O5'-PA
128	Jy	501	GTP	C4'-C5'-O5'-PA
128	K0	501	GTP	C4'-C5'-O5'-PA
128	K4	501	GTP	C4'-C5'-O5'-PA
128	K9	501	GTP	C4'-C5'-O5'-PA
128	KI	501	GTP	C4'-C5'-O5'-PA
128	KL	501	GTP	C4'-C5'-O5'-PA
128	Kj	502	GTP	C4'-C5'-O5'-PA
128	Kl	501	GTP	C4'-C5'-O5'-PA
128	Kv	501	GTP	C4'-C5'-O5'-PA
128	Kx	501	GTP	C4'-C5'-O5'-PA
128	L4	501	GTP	C4'-C5'-O5'-PA
128	LH	501	GTP	C4'-C5'-O5'-PA
128	Lu	501	GTP	C4'-C5'-O5'-PA
128	Lv	501	GTP	C4'-C5'-O5'-PA
128	M4	501	GTP	C4'-C5'-O5'-PA
128	MH	501	GTP	C4'-C5'-O5'-PA
128	MT	501	GTP	C4'-C5'-O5'-PA
128	N1	501	GTP	C4'-C5'-O5'-PA
128	NH	501	GTP	C4'-C5'-O5'-PA
128	NS	501	GTP	C4'-C5'-O5'-PA
128	NU	501	GTP	C4'-C5'-O5'-PA
128	NW	501	GTP	C4'-C5'-O5'-PA
128	Nf	501	GTP	C4'-C5'-O5'-PA
128	Nh	501	GTP	C4'-C5'-O5'-PA
128	P4	501	GTP	C4'-C5'-O5'-PA
128	P8	501	GTP	C4'-C5'-O5'-PA
128	P9	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
128	Q2	501	GTP	C4'-C5'-O5'-PA
128	Q4	501	GTP	C4'-C5'-O5'-PA
128	R0	501	GTP	C4'-C5'-O5'-PA
128	R2	502	GTP	C4'-C5'-O5'-PA
128	R4	501	GTP	C4'-C5'-O5'-PA
128	S0	501	GTP	C4'-C5'-O5'-PA
128	S5	501	GTP	C4'-C5'-O5'-PA
128	S8	501	GTP	C4'-C5'-O5'-PA
128	S9	501	GTP	C4'-C5'-O5'-PA
128	T6	501	GTP	C4'-C5'-O5'-PA
128	U2	501	GTP	C4'-C5'-O5'-PA
128	U4	501	GTP	C4'-C5'-O5'-PA
128	U6	501	GTP	C4'-C5'-O5'-PA
128	U7	501	GTP	C4'-C5'-O5'-PA
128	V2	501	GTP	C4'-C5'-O5'-PA
128	V3	501	GTP	C4'-C5'-O5'-PA
128	W0	501	GTP	C4'-C5'-O5'-PA
128	W4	501	GTP	C4'-C5'-O5'-PA
128	W8	501	GTP	C4'-C5'-O5'-PA
128	Y0	501	GTP	C4'-C5'-O5'-PA
128	Z2	501	GTP	C4'-C5'-O5'-PA
128	0K	501	GTP	PB-O3B-PG-O1G
128	1A	501	GTP	PB-O3B-PG-O1G
128	Cv	502	GTP	PB-O3B-PG-O1G
128	ED	501	GTP	PB-O3B-PG-O1G
128	KU	501	GTP	PB-O3B-PG-O1G
129	0U	501	GDP	PA-O3A-PB-O1B
129	3G	502	GDP	PA-O3A-PB-O1B
129	3I	502	GDP	PA-O3A-PB-O1B
129	A1	501	GDP	PA-O3A-PB-O1B
129	BK	501	GDP	PA-O3A-PB-O1B
129	D0	501	GDP	PA-O3A-PB-O1B
129	DK	502	GDP	PA-O3A-PB-O1B
129	F6	501	GDP	PA-O3A-PB-O1B
129	FE	502	GDP	PA-O3A-PB-O1B
129	J0	502	GDP	PA-O3A-PB-O1B
129	JJ	501	GDP	PA-O3A-PB-O1B
129	JW	503	GDP	PA-O3A-PB-O1B
129	K1	502	GDP	PA-O3A-PB-O1B
129	LJ	502	GDP	PA-O3A-PB-O1B
129	T0	501	GDP	PA-O3A-PB-O1B
128	0I	502	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
128	Aj	501	GTP	C3'-C4'-C5'-O5'
128	Bf	502	GTP	C3'-C4'-C5'-O5'
128	GD	501	GTP	O4'-C4'-C5'-O5'
128	Kv	501	GTP	O4'-C4'-C5'-O5'
128	Kx	501	GTP	O4'-C4'-C5'-O5'
128	P6	501	GTP	O4'-C4'-C5'-O5'
128	Q2	501	GTP	O4'-C4'-C5'-O5'
129	1G	502	GDP	C3'-C4'-C5'-O5'
129	3G	502	GDP	C3'-C4'-C5'-O5'
129	Bw	503	GDP	O4'-C4'-C5'-O5'
129	CM	503	GDP	O4'-C4'-C5'-O5'
129	D4	501	GDP	C3'-C4'-C5'-O5'
129	Dv	501	GDP	O4'-C4'-C5'-O5'
129	EL	502	GDP	C3'-C4'-C5'-O5'
129	FT	503	GDP	C3'-C4'-C5'-O5'
129	JY	501	GDP	O4'-C4'-C5'-O5'
129	Kl	502	GDP	C3'-C4'-C5'-O5'
129	R4	502	GDP	O4'-C4'-C5'-O5'
128	2G	501	GTP	C4'-C5'-O5'-PA
128	Az	501	GTP	C4'-C5'-O5'-PA
128	Bu	501	GTP	C4'-C5'-O5'-PA
128	CU	501	GTP	C4'-C5'-O5'-PA
128	DK	501	GTP	C4'-C5'-O5'-PA
128	FJ	501	GTP	C4'-C5'-O5'-PA
128	Jl	502	GTP	C4'-C5'-O5'-PA
128	LX	501	GTP	C4'-C5'-O5'-PA
128	0A	501	GTP	PB-O3A-PA-O1A
128	0F	501	GTP	PA-O3A-PB-O2B
128	0I	502	GTP	PA-O3A-PB-O2B
128	0M	501	GTP	PA-O3A-PB-O1B
128	1N	501	GTP	PA-O3A-PB-O1B
128	1T	501	GTP	PA-O3A-PB-O2B
128	1X	501	GTP	PA-O3A-PB-O2B
128	2K	501	GTP	PA-O3A-PB-O1B
128	2W	501	GTP	PA-O3A-PB-O2B
128	3S	501	GTP	PB-O3A-PA-O1A
128	8I	501	GTP	PA-O3A-PB-O2B
128	A4	501	GTP	PA-O3A-PB-O1B
128	AT	501	GTP	PA-O3A-PB-O2B
128	Ay	502	GTP	PA-O3A-PB-O2B
128	BB	501	GTP	PB-O3A-PA-O1A
128	Bb	501	GTP	PB-O3A-PA-O2A

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Mol	Chain	Res	Type	Atoms
128	Bh	501	GTP	PA-O3A-PB-O2B
128	Bi	501	GTP	PA-O3A-PB-O2B
128	Bo	501	GTP	PA-O3A-PB-O2B
128	Bz	501	GTP	PB-O3A-PA-O1A
128	C0	501	GTP	PA-O3A-PB-O1B
128	C0	501	GTP	PB-O3A-PA-O1A
128	CE	502	GTP	PA-O3A-PB-O1B
128	CI	501	GTP	PA-O3A-PB-O2B
128	CZ	501	GTP	PA-O3A-PB-O1B
128	Ce	502	GTP	PA-O3A-PB-O1B
128	Cj	501	GTP	PA-O3A-PB-O1B
128	DG	501	GTP	PA-O3A-PB-O1B
128	DK	501	GTP	PA-O3A-PB-O2B
128	DM	501	GTP	PA-O3A-PB-O2B
128	DT	501	GTP	PA-O3A-PB-O2B
128	DX	501	GTP	PA-O3A-PB-O2B
128	Di	501	GTP	PA-O3A-PB-O2B
128	Dk	501	GTP	PA-O3A-PB-O2B
128	Dm	501	GTP	PA-O3A-PB-O2B
128	Dr	501	GTP	PB-O3A-PA-O1A
128	EV	501	GTP	PB-O3A-PA-O2A
128	FW	501	GTP	PA-O3A-PB-O2B
128	Fp	501	GTP	PA-O3A-PB-O2B
128	Fx	501	GTP	PA-O3A-PB-O2B
128	G1	501	GTP	PA-O3A-PB-O1B
128	GH	501	GTP	PA-O3A-PB-O1B
128	I4	502	GTP	PA-O3A-PB-O1B
128	I4	502	GTP	PB-O3A-PA-O1A
128	IW	501	GTP	PA-O3A-PB-O2B
128	Iy	501	GTP	PA-O3A-PB-O2B
128	JU	501	GTP	PB-O3A-PA-O1A
128	Jy	501	GTP	PB-O3A-PA-O1A
128	K6	501	GTP	PA-O3A-PB-O2B
128	KI	501	GTP	PA-O3A-PB-O1B
128	KW	501	GTP	PA-O3A-PB-O2B
128	Kl	501	GTP	PB-O3A-PA-O1A
128	Li	501	GTP	PA-O3A-PB-O2B
128	Lu	501	GTP	PA-O3A-PB-O2B
128	M7	501	GTP	PA-O3A-PB-O2B
128	Nh	501	GTP	PB-O3A-PA-O1A
128	O4	502	GTP	PA-O3A-PB-O2B
128	O8	501	GTP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
128	P4	501	GTP	PA-O3A-PB-O2B
128	Q4	501	GTP	PA-O3A-PB-O2B
128	R4	501	GTP	PA-O3A-PB-O2B
128	S0	501	GTP	PA-O3A-PB-O2B
128	S2	501	GTP	PA-O3A-PB-O2B
128	S9	501	GTP	PA-O3A-PB-O1B
128	T2	501	GTP	PA-O3A-PB-O2B
128	T4	501	GTP	PA-O3A-PB-O2B
128	U7	501	GTP	PA-O3A-PB-O2B
128	W2	501	GTP	PA-O3A-PB-O1B
128	X6	501	GTP	PA-O3A-PB-O2B
128	Y0	501	GTP	PA-O3A-PB-O2B
128	3C	501	GTP	C3'-C4'-C5'-O5'
128	C8	501	GTP	C3'-C4'-C5'-O5'
128	Iy	501	GTP	C3'-C4'-C5'-O5'
129	1C	502	GDP	C3'-C4'-C5'-O5'
129	Cz	502	GDP	C3'-C4'-C5'-O5'
129	Fp	502	GDP	C3'-C4'-C5'-O5'
129	O0	502	GDP	C3'-C4'-C5'-O5'
128	1D	501	GTP	C4'-C5'-O5'-PA
128	1G	501	GTP	C4'-C5'-O5'-PA
128	B5	501	GTP	C4'-C5'-O5'-PA
128	BU	501	GTP	C4'-C5'-O5'-PA
128	Bf	502	GTP	C4'-C5'-O5'-PA
128	DV	501	GTP	C4'-C5'-O5'-PA
128	KH	501	GTP	C4'-C5'-O5'-PA
128	NJ	501	GTP	C4'-C5'-O5'-PA
128	8L	501	GTP	O4'-C4'-C5'-O5'
128	Eh	501	GTP	O4'-C4'-C5'-O5'
128	JU	501	GTP	C3'-C4'-C5'-O5'
129	FE	502	GDP	C3'-C4'-C5'-O5'
129	Fe	502	GDP	C3'-C4'-C5'-O5'
129	Jl	503	GDP	C3'-C4'-C5'-O5'
128	2Q	501	GTP	C4'-C5'-O5'-PA
128	8L	501	GTP	C4'-C5'-O5'-PA
128	Aj	501	GTP	C4'-C5'-O5'-PA
128	Cv	502	GTP	C4'-C5'-O5'-PA
128	EY	501	GTP	C4'-C5'-O5'-PA
128	Fe	501	GTP	C4'-C5'-O5'-PA
128	Fg	501	GTP	C4'-C5'-O5'-PA
128	Fl	501	GTP	C4'-C5'-O5'-PA
128	M6	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
128	NF	501	GTP	C4'-C5'-O5'-PA
128	O6	501	GTP	C4'-C5'-O5'-PA
128	8M	501	GTP	PB-O3B-PG-O1G
128	Aj	501	GTP	PB-O3B-PG-O1G
128	ER	501	GTP	PB-O3B-PG-O1G
128	MV	501	GTP	PB-O3B-PG-O1G
129	1M	501	GDP	PA-O3A-PB-O1B
129	1Q	502	GDP	PA-O3A-PB-O1B
129	2U	502	GDP	PA-O3A-PB-O1B
129	B6	501	GDP	PA-O3A-PB-O1B
129	BI	501	GDP	PA-O3A-PB-O1B
129	BS	501	GDP	PA-O3A-PB-O1B
129	E4	502	GDP	PA-O3A-PB-O1B
129	FG	502	GDP	PA-O3A-PB-O1B
129	K0	502	GDP	PA-O3A-PB-O1B
129	L6	502	GDP	PA-O3A-PB-O1B
129	MT	502	GDP	PA-O3A-PB-O1B
129	Q2	502	GDP	PA-O3A-PB-O1B
129	R8	503	GDP	PA-O3A-PB-O1B
129	U4	502	GDP	PA-O3A-PB-O1B
128	1G	501	GTP	C3'-C4'-C5'-O5'
128	Cx	501	GTP	C3'-C4'-C5'-O5'
128	El	501	GTP	O4'-C4'-C5'-O5'
128	G7	501	GTP	O4'-C4'-C5'-O5'
128	KU	501	GTP	C3'-C4'-C5'-O5'
128	P9	501	GTP	C3'-C4'-C5'-O5'
129	2M	501	GDP	C3'-C4'-C5'-O5'
129	BI	501	GDP	O4'-C4'-C5'-O5'
128	1A	501	GTP	C4'-C5'-O5'-PA
128	1C	501	GTP	C4'-C5'-O5'-PA
128	2E	501	GTP	C4'-C5'-O5'-PA
128	B7	501	GTP	C4'-C5'-O5'-PA
128	BN	501	GTP	C4'-C5'-O5'-PA
128	C4	502	GTP	C4'-C5'-O5'-PA
128	Cz	501	GTP	C4'-C5'-O5'-PA
128	G0	501	GTP	C4'-C5'-O5'-PA
128	G5	501	GTP	C4'-C5'-O5'-PA
128	Jw	501	GTP	C4'-C5'-O5'-PA
128	KU	501	GTP	C4'-C5'-O5'-PA
128	KY	501	GTP	C4'-C5'-O5'-PA
128	L2	501	GTP	C4'-C5'-O5'-PA
128	L6	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
128	Mh	501	GTP	C4'-C5'-O5'-PA
128	Ni	501	GTP	C4'-C5'-O5'-PA
128	O2	501	GTP	C4'-C5'-O5'-PA
128	BJ	501	GTP	C3'-C4'-C5'-O5'
128	BY	501	GTP	O4'-C4'-C5'-O5'
128	Bl	501	GTP	O4'-C4'-C5'-O5'
128	Bz	501	GTP	O4'-C4'-C5'-O5'
128	Cr	502	GTP	C3'-C4'-C5'-O5'
128	Cz	501	GTP	O4'-C4'-C5'-O5'
128	DK	501	GTP	O4'-C4'-C5'-O5'
128	Df	501	GTP	O4'-C4'-C5'-O5'
128	Fc	501	GTP	O4'-C4'-C5'-O5'
128	F1	501	GTP	O4'-C4'-C5'-O5'
128	GH	501	GTP	O4'-C4'-C5'-O5'
128	Lv	501	GTP	O4'-C4'-C5'-O5'
128	N8	501	GTP	O4'-C4'-C5'-O5'
128	R8	502	GTP	O4'-C4'-C5'-O5'
128	S2	501	GTP	O4'-C4'-C5'-O5'
128	U7	501	GTP	O4'-C4'-C5'-O5'
128	W4	501	GTP	O4'-C4'-C5'-O5'
129	0M	502	GDP	O4'-C4'-C5'-O5'
129	2U	502	GDP	C3'-C4'-C5'-O5'
129	A7	501	GDP	O4'-C4'-C5'-O5'
129	BO	501	GDP	O4'-C4'-C5'-O5'
129	Bj	501	GDP	O4'-C4'-C5'-O5'
129	Bl	502	GDP	O4'-C4'-C5'-O5'
129	CT	501	GDP	C3'-C4'-C5'-O5'
129	DZ	502	GDP	O4'-C4'-C5'-O5'
129	F6	501	GDP	O4'-C4'-C5'-O5'
129	FI	502	GDP	O4'-C4'-C5'-O5'
129	FP	501	GDP	C3'-C4'-C5'-O5'
129	M6	502	GDP	O4'-C4'-C5'-O5'
129	U8	502	GDP	O4'-C4'-C5'-O5'
129	W8	502	GDP	O4'-C4'-C5'-O5'
128	0Q	502	GTP	PA-O3A-PB-O2B
128	1C	501	GTP	PA-O3A-PB-O1B
128	1H	501	GTP	PB-O3A-PA-O1A
128	1N	501	GTP	PA-O3A-PB-O2B
128	1Q	501	GTP	PB-O3A-PA-O1A
128	1X	501	GTP	PA-O3A-PB-O1B
128	2K	501	GTP	PA-O3A-PB-O2B
128	2Q	501	GTP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
128	3G	501	GTP	PA-O3A-PB-O1B
128	An	501	GTP	PA-O3A-PB-O1B
128	Av	501	GTP	PA-O3A-PB-O2B
128	Ay	502	GTP	PA-O3A-PB-O1B
128	By	502	GTP	PB-O3A-PA-O1A
128	CE	502	GTP	PA-O3A-PB-O2B
128	CK	501	GTP	PA-O3A-PB-O1B
128	Cj	501	GTP	PB-O3A-PA-O1A
128	Df	501	GTP	PA-O3A-PB-O1B
128	Dr	501	GTP	PA-O3A-PB-O1B
128	Dw	501	GTP	PA-O3A-PB-O1B
128	E0	502	GTP	PB-O3A-PA-O2A
128	EF	501	GTP	PB-O3A-PA-O1A
128	EH	501	GTP	PB-O3A-PA-O1A
128	EL	501	GTP	PA-O3A-PB-O2B
128	Eh	501	GTP	PA-O3A-PB-O2B
128	Ei	501	GTP	PB-O3A-PA-O2A
128	F1	501	GTP	PB-O3A-PA-O1A
128	FT	502	GTP	PA-O3A-PB-O1B
128	FT	502	GTP	PB-O3A-PA-O1A
128	FV	501	GTP	PA-O3A-PB-O1B
128	Fr	501	GTP	PB-O3A-PA-O1A
128	Fv	501	GTP	PB-O3A-PA-O2A
128	G1	501	GTP	PA-O3A-PB-O2B
128	GH	501	GTP	PA-O3A-PB-O2B
128	GI	501	GTP	PA-O3A-PB-O2B
128	H6	501	GTP	PB-O3A-PA-O1A
128	J4	501	GTP	PA-O3A-PB-O1B
128	J6	501	GTP	PA-O3A-PB-O1B
128	J8	502	GTP	PA-O3A-PB-O2B
128	Jy	501	GTP	PA-O3A-PB-O1B
128	K9	501	GTP	PB-O3A-PA-O1A
128	LU	501	GTP	PA-O3A-PB-O1B
128	Lh	501	GTP	PB-O3A-PA-O2A
128	Lv	501	GTP	PB-O3A-PA-O2A
128	M4	501	GTP	PB-O3A-PA-O1A
128	MG	501	GTP	PB-O3A-PA-O1A
128	MV	501	GTP	PA-O3A-PB-O1B
128	P9	501	GTP	PA-O3A-PB-O2B
128	R8	502	GTP	PB-O3A-PA-O2A
128	S9	501	GTP	PA-O3A-PB-O2B
128	T2	501	GTP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
128	U4	501	GTP	PA-O3A-PB-O1B
128	U4	501	GTP	PA-O3A-PB-O2B
128	U4	501	GTP	PB-O3A-PA-O1A
128	U7	501	GTP	PA-O3A-PB-O1B
128	U7	501	GTP	PB-O3A-PA-O1A
128	W2	501	GTP	PA-O3A-PB-O2B
128	W4	501	GTP	PB-O3A-PA-O1A
128	W8	501	GTP	PB-O3A-PA-O1A
128	0A	501	GTP	PB-O3A-PA-O5'
128	1D	501	GTP	PB-O3A-PA-O5'
128	CK	501	GTP	PB-O3A-PA-O5'
128	Dr	501	GTP	PB-O3A-PA-O5'
128	F8	501	GTP	PB-O3A-PA-O5'
128	IK	501	GTP	PB-O3A-PA-O5'
128	JU	501	GTP	PB-O3A-PA-O5'
128	KL	501	GTP	PB-O3A-PA-O5'
128	Nh	501	GTP	PB-O3A-PA-O5'
128	W5	501	GTP	PB-O3A-PA-O5'
128	Z2	501	GTP	PB-O3A-PA-O5'
128	0O	501	GTP	C4'-C5'-O5'-PA
128	0Q	502	GTP	C4'-C5'-O5'-PA
128	2L	501	GTP	C4'-C5'-O5'-PA
128	BY	501	GTP	C4'-C5'-O5'-PA
128	Bb	501	GTP	C4'-C5'-O5'-PA
128	CR	502	GTP	C4'-C5'-O5'-PA
128	Ci	501	GTP	C4'-C5'-O5'-PA
128	K7	501	GTP	C4'-C5'-O5'-PA
128	R8	502	GTP	C4'-C5'-O5'-PA
128	2W	501	GTP	O4'-C4'-C5'-O5'
128	3O	501	GTP	O4'-C4'-C5'-O5'
128	Bi	501	GTP	O4'-C4'-C5'-O5'
128	Ct	501	GTP	O4'-C4'-C5'-O5'
128	IW	501	GTP	O4'-C4'-C5'-O5'
128	O0	501	GTP	O4'-C4'-C5'-O5'
128	P8	501	GTP	O4'-C4'-C5'-O5'
128	T2	501	GTP	O4'-C4'-C5'-O5'
128	T6	501	GTP	O4'-C4'-C5'-O5'
129	1E	501	GDP	O4'-C4'-C5'-O5'
129	2W	502	GDP	C3'-C4'-C5'-O5'
129	Al	501	GDP	O4'-C4'-C5'-O5'
129	DM	502	GDP	O4'-C4'-C5'-O5'
129	E2	501	GDP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
129	E4	502	GDP	O4'-C4'-C5'-O5'
129	EU	502	GDP	O4'-C4'-C5'-O5'
129	G0	502	GDP	O4'-C4'-C5'-O5'
129	GB	502	GDP	C3'-C4'-C5'-O5'
129	JW	503	GDP	C3'-C4'-C5'-O5'
129	K0	502	GDP	O4'-C4'-C5'-O5'
129	Mg	502	GDP	O4'-C4'-C5'-O5'
129	V8	502	GDP	O4'-C4'-C5'-O5'
128	A9	501	GTP	C4'-C5'-O5'-PA
128	CS	501	GTP	C4'-C5'-O5'-PA
128	EQ	501	GTP	C4'-C5'-O5'-PA
128	G3	502	GTP	C4'-C5'-O5'-PA
128	JK	501	GTP	C4'-C5'-O5'-PA
128	M0	501	GTP	C4'-C5'-O5'-PA
128	N8	501	GTP	C4'-C5'-O5'-PA
128	T8	501	GTP	C4'-C5'-O5'-PA
128	X0	501	GTP	C4'-C5'-O5'-PA
128	0M	501	GTP	O4'-C4'-C5'-O5'
128	1D	501	GTP	O4'-C4'-C5'-O5'
128	Dm	501	GTP	C3'-C4'-C5'-O5'
128	Fp	501	GTP	O4'-C4'-C5'-O5'
128	G1	501	GTP	C3'-C4'-C5'-O5'
129	1M	501	GDP	O4'-C4'-C5'-O5'
129	FK	501	GDP	O4'-C4'-C5'-O5'
129	KH	502	GDP	O4'-C4'-C5'-O5'
128	0O	501	GTP	PB-O3B-PG-O1G
128	2C	501	GTP	PB-O3B-PG-O1G
128	2I	501	GTP	PB-O3B-PG-O1G
128	8H	501	GTP	PB-O3B-PG-O1G
128	CR	502	GTP	PB-O3B-PG-O1G
128	Ci	501	GTP	PB-O3B-PG-O1G
128	FG	501	GTP	PB-O3B-PG-O1G
128	Fe	501	GTP	PB-O3B-PG-O1G
128	Fg	501	GTP	PB-O3B-PG-O1G
128	F1	501	GTP	PB-O3B-PG-O1G
128	G0	501	GTP	PB-O3B-PG-O1G
128	GB	501	GTP	PB-O3B-PG-O1G
128	L2	501	GTP	PB-O3B-PG-O1G
128	L6	501	GTP	PB-O3B-PG-O1G
128	LJ	501	GTP	PB-O3B-PG-O1G
128	Mt	501	GTP	PB-O3B-PG-O1G
128	NF	501	GTP	PB-O3B-PG-O1G

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Mol	Chain	Res	Type	Atoms
128	O2	501	GTP	PB-O3B-PG-O1G
128	R0	501	GTP	PB-O3B-PG-O1G
128	T4	501	GTP	PB-O3B-PG-O1G
129	0G	501	GDP	PA-O3A-PB-O1B
129	1C	502	GDP	PA-O3A-PB-O1B
129	1G	502	GDP	PA-O3A-PB-O1B
129	1K	501	GDP	PA-O3A-PB-O1B
129	2S	502	GDP	PA-O3A-PB-O1B
129	2W	502	GDP	PA-O3A-PB-O1B
129	Bh	502	GDP	PA-O3A-PB-O1B
129	Bj	501	GDP	PA-O3A-PB-O1B
129	Bs	501	GDP	PA-O3A-PB-O1B
129	Bu	502	GDP	PA-O3A-PB-O1B
129	Bw	503	GDP	PA-O3A-PB-O1B
129	CV	501	GDP	PA-O3A-PB-O1B
129	Ci	502	GDP	PA-O3A-PB-O1B
129	Ct	502	GDP	PA-O3A-PB-O1B
129	D6	501	GDP	PA-O3A-PB-O1B
129	DG	502	GDP	PA-O3A-PB-O1B
129	Dk	502	GDP	PA-O3A-PB-O1B
129	Dv	501	GDP	PA-O3A-PB-O1B
129	EJ	501	GDP	PA-O3A-PB-O1B
129	FI	502	GDP	PA-O3A-PB-O1B
129	FV	502	GDP	PA-O3A-PB-O1B
129	FX	501	GDP	PA-O3A-PB-O1B
129	Fe	502	GDP	PA-O3A-PB-O1B
129	Fi	502	GDP	PA-O3A-PB-O1B
129	Fr	502	GDP	PA-O3A-PB-O1B
129	H4	501	GDP	PA-O3A-PB-O1B
129	IK	502	GDP	PA-O3A-PB-O1B
129	JU	503	GDP	PA-O3A-PB-O1B
129	Jl	503	GDP	PA-O3A-PB-O1B
129	Ju	501	GDP	PA-O3A-PB-O1B
129	Jy	502	GDP	PA-O3A-PB-O1B
129	K4	502	GDP	PA-O3A-PB-O1B
129	Kv	503	GDP	PA-O3A-PB-O1B
129	Kx	502	GDP	PA-O3A-PB-O1B
129	L0	501	GDP	PA-O3A-PB-O1B
129	L2	502	GDP	PA-O3A-PB-O1B
129	L4	502	GDP	PA-O3A-PB-O1B
129	M2	502	GDP	PA-O3A-PB-O1B
129	Mg	502	GDP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
129	NH	502	GDP	PA-O3A-PB-O1B
129	NJ	502	GDP	PA-O3A-PB-O1B
129	O0	502	GDP	PA-O3A-PB-O1B
129	P8	502	GDP	PA-O3A-PB-O1B
129	Q4	502	GDP	PA-O3A-PB-O1B
129	R6	502	GDP	PA-O3A-PB-O1B
129	W6	501	GDP	PA-O3A-PB-O1B
128	0Y	501	GTP	PB-O3B-PG-O3G
128	2I	501	GTP	PB-O3B-PG-O3G
128	2L	501	GTP	PB-O3B-PG-O3G
128	8I	501	GTP	PB-O3B-PG-O2G
128	8I	501	GTP	PB-O3B-PG-O3G
128	8M	501	GTP	PB-O3B-PG-O2G
128	8M	501	GTP	PB-O3B-PG-O3G
128	Ag	501	GTP	PB-O3B-PG-O2G
128	Ag	501	GTP	PB-O3B-PG-O3G
128	Bu	501	GTP	PB-O3B-PG-O3G
128	CR	502	GTP	PB-O3B-PG-O3G
128	Ci	501	GTP	PB-O3B-PG-O3G
128	Cz	501	GTP	PB-O3B-PG-O3G
128	Dk	501	GTP	PB-O3B-PG-O3G
128	Du	501	GTP	PB-O3B-PG-O2G
128	ER	501	GTP	PB-O3B-PG-O2G
128	ER	501	GTP	PB-O3B-PG-O3G
128	G0	501	GTP	PB-O3B-PG-O3G
128	IW	501	GTP	PB-O3B-PG-O3G
128	Jw	501	GTP	PB-O3B-PG-O3G
128	KY	501	GTP	PB-O3B-PG-O3G
128	M6	501	GTP	PB-O3B-PG-O3G
128	MH	501	GTP	PB-O3B-PG-O2G
128	N8	501	GTP	PB-O3B-PG-O3G
128	NF	501	GTP	PB-O3B-PG-O3G
128	O2	501	GTP	PB-O3B-PG-O3G
128	U7	501	GTP	PB-O3B-PG-O2G
128	X7	501	GTP	PB-O3B-PG-O2G
128	X7	501	GTP	PB-O3B-PG-O3G
128	Z6	501	GTP	PB-O3B-PG-O3G
129	0C	502	GDP	PA-O3A-PB-O2B
129	0G	501	GDP	PA-O3A-PB-O2B
129	0I	503	GDP	PA-O3A-PB-O2B
129	0M	502	GDP	PA-O3A-PB-O2B
129	0Q	503	GDP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
129	0Y	502	GDP	PA-O3A-PB-O2B
129	1C	502	GDP	PA-O3A-PB-O2B
129	1G	502	GDP	PA-O3A-PB-O2B
129	1S	502	GDP	PA-O3A-PB-O2B
129	1W	502	GDP	PA-O3A-PB-O2B
129	2A	502	GDP	PA-O3A-PB-O2B
129	2C	502	GDP	PA-O3A-PB-O2B
129	2E	502	GDP	PA-O3A-PB-O2B
129	2K	502	GDP	PA-O3A-PB-O2B
129	2S	502	GDP	PA-O3A-PB-O2B
129	2W	502	GDP	PA-O3A-PB-O2B
129	3C	502	GDP	PA-O3A-PB-O2B
129	8N	501	GDP	PA-O3A-PB-O2B
129	A3	501	GDP	PA-O3A-PB-O2B
129	A5	501	GDP	PA-O3A-PB-O2B
129	A9	502	GDP	PA-O3A-PB-O2B
129	AJ	501	GDP	PA-O3A-PB-O2B
129	An	502	GDP	PA-O3A-PB-O2B
129	BM	501	GDP	PA-O3A-PB-O2B
129	BU	502	GDP	PA-O3A-PB-O2B
129	Bw	503	GDP	PA-O3A-PB-O2B
129	CK	502	GDP	PA-O3A-PB-O2B
129	CM	503	GDP	PA-O3A-PB-O2B
129	CR	501	GDP	PA-O3A-PB-O2B
129	CX	502	GDP	PA-O3A-PB-O2B
129	CZ	502	GDP	PA-O3A-PB-O2B
129	D2	501	GDP	PA-O3A-PB-O3B
129	DG	502	GDP	PA-O3A-PB-O2B
129	DX	502	GDP	PA-O3A-PB-O2B
129	Dg	501	GDP	PA-O3A-PB-O2B
129	Dk	502	GDP	PA-O3A-PB-O2B
129	EF	502	GDP	PA-O3A-PB-O2B
129	EL	502	GDP	PA-O3A-PB-O2B
129	F8	502	GDP	PA-O3A-PB-O2B
129	FI	502	GDP	PA-O3A-PB-O2B
129	FK	501	GDP	PA-O3A-PB-O2B
129	FT	503	GDP	PA-O3A-PB-O2B
129	FV	502	GDP	PA-O3A-PB-O2B
129	FX	501	GDP	PA-O3A-PB-O2B
129	Fp	502	GDP	PA-O3A-PB-O2B
129	G0	502	GDP	PA-O3A-PB-O2B
129	H4	501	GDP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
129	H8	503	GDP	PA-O3A-PB-O3B
129	JY	501	GDP	PA-O3A-PB-O2B
129	Jl	503	GDP	PA-O3A-PB-O2B
129	Jw	502	GDP	PA-O3A-PB-O2B
129	K6	502	GDP	PA-O3A-PB-O2B
129	Kx	502	GDP	PA-O3A-PB-O2B
129	L2	502	GDP	PA-O3A-PB-O2B
129	Lj	501	GDP	PA-O3A-PB-O2B
129	Mt	502	GDP	PA-O3A-PB-O2B
129	NS	502	GDP	PA-O3A-PB-O2B
129	O0	502	GDP	PA-O3A-PB-O2B
129	T4	502	GDP	PA-O3A-PB-O2B
128	C8	501	GTP	C4'-C5'-O5'-PA
128	MV	501	GTP	C4'-C5'-O5'-PA
128	Y4	501	GTP	C4'-C5'-O5'-PA
128	2G	501	GTP	O4'-C4'-C5'-O5'
128	3S	501	GTP	C3'-C4'-C5'-O5'
128	BH	501	GTP	C3'-C4'-C5'-O5'
128	D7	501	GTP	C3'-C4'-C5'-O5'
128	E6	501	GTP	O4'-C4'-C5'-O5'
128	E8	501	GTP	C3'-C4'-C5'-O5'
128	EU	501	GTP	O4'-C4'-C5'-O5'
128	Ee	501	GTP	C3'-C4'-C5'-O5'
129	0I	503	GDP	O4'-C4'-C5'-O5'
129	0Q	503	GDP	O4'-C4'-C5'-O5'
129	By	503	GDP	C3'-C4'-C5'-O5'
129	EF	502	GDP	C3'-C4'-C5'-O5'
129	ES	501	GDP	C3'-C4'-C5'-O5'
129	Fi	502	GDP	C3'-C4'-C5'-O5'
129	G2	501	GDP	O4'-C4'-C5'-O5'
129	IK	502	GDP	C3'-C4'-C5'-O5'
129	N0	502	GDP	O4'-C4'-C5'-O5'
129	NH	502	GDP	C3'-C4'-C5'-O5'
128	A2	501	GTP	PA-O3A-PB-O3B
128	0I	502	GTP	O4'-C4'-C5'-O5'
128	Ag	501	GTP	C3'-C4'-C5'-O5'
128	Aj	501	GTP	O4'-C4'-C5'-O5'
128	Dk	501	GTP	C3'-C4'-C5'-O5'
128	T4	501	GTP	C3'-C4'-C5'-O5'
128	Z0	501	GTP	C3'-C4'-C5'-O5'
129	1G	502	GDP	O4'-C4'-C5'-O5'
129	1S	502	GDP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
129	A1	502	GDP	C3'-C4'-C5'-O5'
129	Cm	502	GDP	C3'-C4'-C5'-O5'
129	D6	501	GDP	C3'-C4'-C5'-O5'
129	Fr	502	GDP	C3'-C4'-C5'-O5'
129	H6	502	GDP	O4'-C4'-C5'-O5'
129	Jj	502	GDP	C3'-C4'-C5'-O5'
129	Kj	503	GDP	O4'-C4'-C5'-O5'
129	Lu	502	GDP	C3'-C4'-C5'-O5'
129	MT	502	GDP	C3'-C4'-C5'-O5'
128	BG	501	GTP	C4'-C5'-O5'-PA
128	0F	501	GTP	PA-O3A-PB-O1B
128	0M	501	GTP	PA-O3A-PB-O2B
128	0V	501	GTP	PB-O3A-PA-O1A
128	1G	501	GTP	PG-O3B-PB-O2B
128	1Q	501	GTP	PA-O3A-PB-O2B
128	1S	501	GTP	PA-O3A-PB-O2B
128	1T	501	GTP	PA-O3A-PB-O1B
128	1W	501	GTP	PG-O3B-PB-O2B
128	2I	501	GTP	PB-O3A-PA-O1A
128	2S	501	GTP	PB-O3A-PA-O2A
128	2U	501	GTP	PA-O3A-PB-O1B
128	2Y	501	GTP	PB-O3A-PA-O1A
128	3A	501	GTP	PA-O3A-PB-O2B
128	3C	501	GTP	PA-O3A-PB-O2B
128	3M	501	GTP	PB-O3A-PA-O2A
128	3P	501	GTP	PA-O3A-PB-O2B
128	3S	501	GTP	PB-O3A-PA-O2A
128	8H	501	GTP	PB-O3A-PA-O2A
128	8I	501	GTP	PA-O3A-PB-O1B
128	8M	501	GTP	PA-O3A-PB-O2B
128	A2	501	GTP	PG-O3B-PB-O1B
128	A2	501	GTP	PA-O3A-PB-O1B
128	Ag	501	GTP	PA-O3A-PB-O1B
128	Ak	501	GTP	PB-O3A-PA-O1A
128	An	501	GTP	PA-O3A-PB-O2B
128	Ao	501	GTP	PG-O3B-PB-O2B
128	At	501	GTP	PB-O3A-PA-O1A
128	Av	501	GTP	PA-O3A-PB-O1B
128	Az	501	GTP	PB-O3A-PA-O2A
128	B2	501	GTP	PA-O3A-PB-O2B
128	Bb	501	GTP	PB-O3A-PA-O1A
128	Bh	501	GTP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
128	Bm	501	GTP	PB-O3A-PA-O1A
128	Bo	501	GTP	PA-O3A-PB-O1B
128	Bu	501	GTP	PB-O3A-PA-O2A
128	Bw	501	GTP	PA-O3A-PB-O2B
128	Bz	501	GTP	PA-O3A-PB-O2B
128	C5	501	GTP	PB-O3A-PA-O1A
128	CI	501	GTP	PA-O3A-PB-O1B
128	CU	501	GTP	PB-O3A-PA-O2A
128	Ce	502	GTP	PA-O3A-PB-O2B
128	Cj	501	GTP	PA-O3A-PB-O2B
128	Cr	502	GTP	PG-O3B-PB-O2B
128	DH	501	GTP	PA-O3A-PB-O2B
128	DK	501	GTP	PA-O3A-PB-O1B
128	DR	501	GTP	PB-O3A-PA-O2A
128	DT	501	GTP	PA-O3A-PB-O1B
128	DX	501	GTP	PA-O3A-PB-O1B
128	DZ	501	GTP	PA-O3A-PB-O1B
128	Df	501	GTP	PA-O3A-PB-O2B
128	Di	501	GTP	PA-O3A-PB-O1B
128	Dk	501	GTP	PA-O3A-PB-O1B
128	Dm	501	GTP	PA-O3A-PB-O1B
128	Dr	501	GTP	PA-O3A-PB-O2B
128	Dt	501	GTP	PB-O3A-PA-O1A
128	Dw	501	GTP	PA-O3A-PB-O2B
128	E4	501	GTP	PB-O3A-PA-O2A
128	E6	501	GTP	PA-O3A-PB-O2B
128	EH	501	GTP	PA-O3A-PB-O2B
128	EI	501	GTP	PA-O3A-PB-O1B
128	EI	501	GTP	PA-O3A-PB-O2B
128	EV	501	GTP	PB-O3A-PA-O1A
128	El	501	GTP	PG-O3B-PB-O2B
128	Es	501	GTP	PB-O3A-PA-O1A
128	F0	501	GTP	PB-O3A-PA-O2A
128	F3	501	GTP	PA-O3A-PB-O2B
128	FE	501	GTP	PB-O3A-PA-O1A
128	FG	501	GTP	PB-O3A-PA-O2A
128	Fk	501	GTP	PG-O3B-PB-O2B
128	Fp	501	GTP	PA-O3A-PB-O1B
128	G3	502	GTP	PB-O3A-PA-O2A
128	G7	501	GTP	PA-O3A-PB-O2B
128	GD	501	GTP	PB-O3A-PA-O2A
128	GF	501	GTP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
128	H2	501	GTP	PB-O3A-PA-O2A
128	IL	501	GTP	PG-O3B-PB-O2B
128	IL	501	GTP	PA-O3A-PB-O1B
128	IX	501	GTP	PB-O3A-PA-O1A
128	J2	501	GTP	PB-O3A-PA-O2A
128	J4	501	GTP	PA-O3A-PB-O2B
128	JI	502	GTP	PA-O3A-PB-O2B
128	JX	501	GTP	PA-O3A-PB-O2B
128	Jl	502	GTP	PG-O3B-PB-O2B
128	K0	501	GTP	PB-O3A-PA-O1A
128	K4	501	GTP	PB-O3A-PA-O2A
128	K6	501	GTP	PA-O3A-PB-O1B
128	KI	501	GTP	PB-O3A-PA-O1A
128	KW	501	GTP	PA-O3A-PB-O1B
128	Kv	501	GTP	PB-O3A-PA-O1A
128	Kx	501	GTP	PA-O3A-PB-O1B
128	LH	501	GTP	PA-O3A-PB-O2B
128	LU	501	GTP	PA-O3A-PB-O2B
128	LX	501	GTP	PB-O3A-PA-O1A
128	Li	501	GTP	PA-O3A-PB-O1B
128	M2	501	GTP	PB-O3A-PA-O2A
128	MH	501	GTP	PB-O3A-PA-O2A
128	Mt	501	GTP	PA-O3A-PB-O2B
128	N0	501	GTP	PB-O3A-PA-O1A
128	N1	501	GTP	PB-O3A-PA-O1A
128	N6	501	GTP	PA-O3A-PB-O1B
128	NH	501	GTP	PB-O3A-PA-O2A
128	O8	501	GTP	PA-O3A-PB-O1B
128	P4	501	GTP	PA-O3A-PB-O1B
128	P8	501	GTP	PA-O3A-PB-O1B
128	P9	501	GTP	PA-O3A-PB-O1B
128	Q2	501	GTP	PA-O3A-PB-O1B
128	R6	501	GTP	PA-O3A-PB-O1B
128	R8	502	GTP	PB-O3A-PA-O1A
128	S0	501	GTP	PA-O3A-PB-O1B
128	S5	501	GTP	PA-O3A-PB-O1B
128	S8	501	GTP	PB-O3A-PA-O1A
128	T4	501	GTP	PA-O3A-PB-O1B
128	U2	501	GTP	PB-O3A-PA-O1A
128	U6	501	GTP	PB-O3A-PA-O1A
128	U9	501	GTP	PB-O3A-PA-O1A
128	X6	501	GTP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
128	Y0	501	GTP	PA-O3A-PB-O1B
128	Y6	501	GTP	PA-O3A-PB-O1B
129	0G	501	GDP	PB-O3A-PA-O2A
128	Bf	502	GTP	O4'-C4'-C5'-O5'
128	Bo	501	GTP	C3'-C4'-C5'-O5'
128	DE	501	GTP	C3'-C4'-C5'-O5'
129	EY	502	GDP	C3'-C4'-C5'-O5'
129	FV	502	GDP	C3'-C4'-C5'-O5'
129	GD	502	GDP	C3'-C4'-C5'-O5'
128	Ee	501	GTP	C4'-C5'-O5'-PA
128	IL	501	GTP	PA-O3A-PB-O3B
128	2L	501	GTP	PB-O3B-PG-O1G
128	CM	502	GTP	PB-O3B-PG-O1G
128	DR	501	GTP	PB-O3B-PG-O1G
128	Du	501	GTP	PB-O3B-PG-O1G
128	E8	501	GTP	PB-O3B-PG-O1G
128	EY	501	GTP	PB-O3B-PG-O1G
128	Ee	501	GTP	PB-O3B-PG-O1G
128	Fi	501	GTP	PB-O3B-PG-O1G
129	1E	501	GDP	PA-O3A-PB-O1B
129	1S	502	GDP	PA-O3A-PB-O1B
129	1U	501	GDP	PA-O3A-PB-O1B
129	2A	502	GDP	PA-O3A-PB-O1B
129	2I	502	GDP	PA-O3A-PB-O1B
129	2Q	502	GDP	PA-O3A-PB-O1B
129	8N	501	GDP	PA-O3A-PB-O1B
129	AJ	501	GDP	PA-O3A-PB-O1B
129	An	502	GDP	PA-O3A-PB-O1B
129	Ap	501	GDP	PA-O3A-PB-O1B
129	BO	501	GDP	PA-O3A-PB-O1B
129	By	503	GDP	PA-O3A-PB-O1B
129	CK	502	GDP	PA-O3A-PB-O1B
129	CX	502	GDP	PA-O3A-PB-O1B
129	D8	501	GDP	PA-O3A-PB-O1B
129	Ft	502	GDP	PA-O3A-PB-O1B
129	I0	502	GDP	PA-O3A-PB-O1B
129	Il	501	GDP	PA-O3A-PB-O1B
129	J8	503	GDP	PA-O3A-PB-O1B
129	K6	502	GDP	PA-O3A-PB-O1B
129	Lj	501	GDP	PA-O3A-PB-O1B
129	Mv	501	GDP	PA-O3A-PB-O1B
129	NS	502	GDP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
129	W2	502	GDP	PA-O3A-PB-O1B
128	3C	501	GTP	O4'-C4'-C5'-O5'
128	BG	501	GTP	C3'-C4'-C5'-O5'
128	Iy	501	GTP	O4'-C4'-C5'-O5'
128	JU	501	GTP	O4'-C4'-C5'-O5'
129	1C	502	GDP	O4'-C4'-C5'-O5'
129	3G	502	GDP	O4'-C4'-C5'-O5'
129	BS	501	GDP	C3'-C4'-C5'-O5'
129	CV	501	GDP	C3'-C4'-C5'-O5'
129	D4	501	GDP	O4'-C4'-C5'-O5'
129	Dr	502	GDP	C3'-C4'-C5'-O5'
129	EL	502	GDP	O4'-C4'-C5'-O5'
129	FT	503	GDP	O4'-C4'-C5'-O5'
128	X4	501	GTP	C4'-C5'-O5'-PA
128	Bf	502	GTP	PA-O3A-PB-O3B
128	0I	502	GTP	PA-O3A-PB-O1B
128	0Y	501	GTP	PB-O3A-PA-O2A
128	1C	501	GTP	PG-O3B-PB-O2B
128	1G	501	GTP	PA-O3A-PB-O1B
128	1L	501	GTP	PB-O3A-PA-O2A
128	2A	501	GTP	PA-O3A-PB-O2B
128	2E	501	GTP	PB-O3A-PA-O2A
128	2G	501	GTP	PB-O3A-PA-O2A
128	2W	501	GTP	PA-O3A-PB-O1B
128	3C	501	GTP	PA-O3A-PB-O1B
128	3K	501	GTP	PA-O3A-PB-O1B
128	8L	501	GTP	PG-O3B-PB-O2B
128	AT	501	GTP	PA-O3A-PB-O1B
128	Aj	501	GTP	PG-O3B-PB-O2B
128	Ao	501	GTP	PA-O3A-PB-O1B
128	At	501	GTP	PB-O3A-PA-O2A
128	Az	501	GTP	PB-O3A-PA-O1A
128	B0	501	GTP	PB-O3A-PA-O1A
128	B0	501	GTP	PB-O3A-PA-O2A
128	B2	501	GTP	PA-O3A-PB-O1B
128	B5	501	GTP	PG-O3B-PB-O2B
128	BU	501	GTP	PB-O3A-PA-O2A
128	Bf	502	GTP	PG-O3B-PB-O2B
128	Bf	502	GTP	PA-O3A-PB-O1B
128	Bi	501	GTP	PA-O3A-PB-O1B
128	Bl	501	GTP	PB-O3A-PA-O1A
128	C1	501	GTP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
128	CG	501	GTP	PA-O3A-PB-O2B
128	CM	502	GTP	PB-O3A-PA-O2A
128	CX	501	GTP	PB-O3A-PA-O2A
128	Ce	502	GTP	PB-O3A-PA-O1A
128	Cg	501	GTP	PB-O3A-PA-O1A
128	Cm	501	GTP	PB-O3A-PA-O2A
128	Cr	502	GTP	PG-O3B-PB-O1B
128	DM	501	GTP	PA-O3A-PB-O1B
128	DV	501	GTP	PG-O3B-PB-O2B
128	ED	501	GTP	PG-O3B-PB-O2B
128	Es	501	GTP	PG-O3B-PB-O2B
128	Es	501	GTP	PB-O3A-PA-O2A
128	FJ	501	GTP	PB-O3A-PA-O2A
128	Fc	501	GTP	PG-O3B-PB-O2B
128	Fr	501	GTP	PB-O3A-PA-O2A
128	Fx	501	GTP	PA-O3A-PB-O1B
128	I1	501	GTP	PA-O3A-PB-O2B
128	I5	501	GTP	PA-O3A-PB-O2B
128	IW	501	GTP	PA-O3A-PB-O1B
128	Iy	501	GTP	PA-O3A-PB-O1B
128	JK	501	GTP	PB-O3A-PA-O2A
128	K0	501	GTP	PB-O3A-PA-O2A
128	K9	501	GTP	PA-O3A-PB-O2B
128	L4	501	GTP	PB-O3A-PA-O2A
128	Lu	501	GTP	PA-O3A-PB-O1B
128	M4	501	GTP	PA-O3A-PB-O2B
128	M7	501	GTP	PA-O3A-PB-O1B
128	MT	501	GTP	PG-O3B-PB-O2B
128	MV	501	GTP	PG-O3B-PB-O2B
128	N0	501	GTP	PB-O3A-PA-O2A
128	N1	501	GTP	PB-O3A-PA-O2A
128	NH	501	GTP	PB-O3A-PA-O1A
128	NJ	501	GTP	PG-O3B-PB-O2B
128	NU	501	GTP	PB-O3A-PA-O2A
128	O4	502	GTP	PA-O3A-PB-O1B
128	O6	501	GTP	PG-O3B-PB-O2B
128	Q4	501	GTP	PA-O3A-PB-O1B
128	R0	501	GTP	PB-O3A-PA-O2A
128	R2	502	GTP	PA-O3A-PB-O2B
128	R4	501	GTP	PA-O3A-PB-O1B
128	S2	501	GTP	PA-O3A-PB-O1B
128	T6	501	GTP	PA-O3A-PB-O2B

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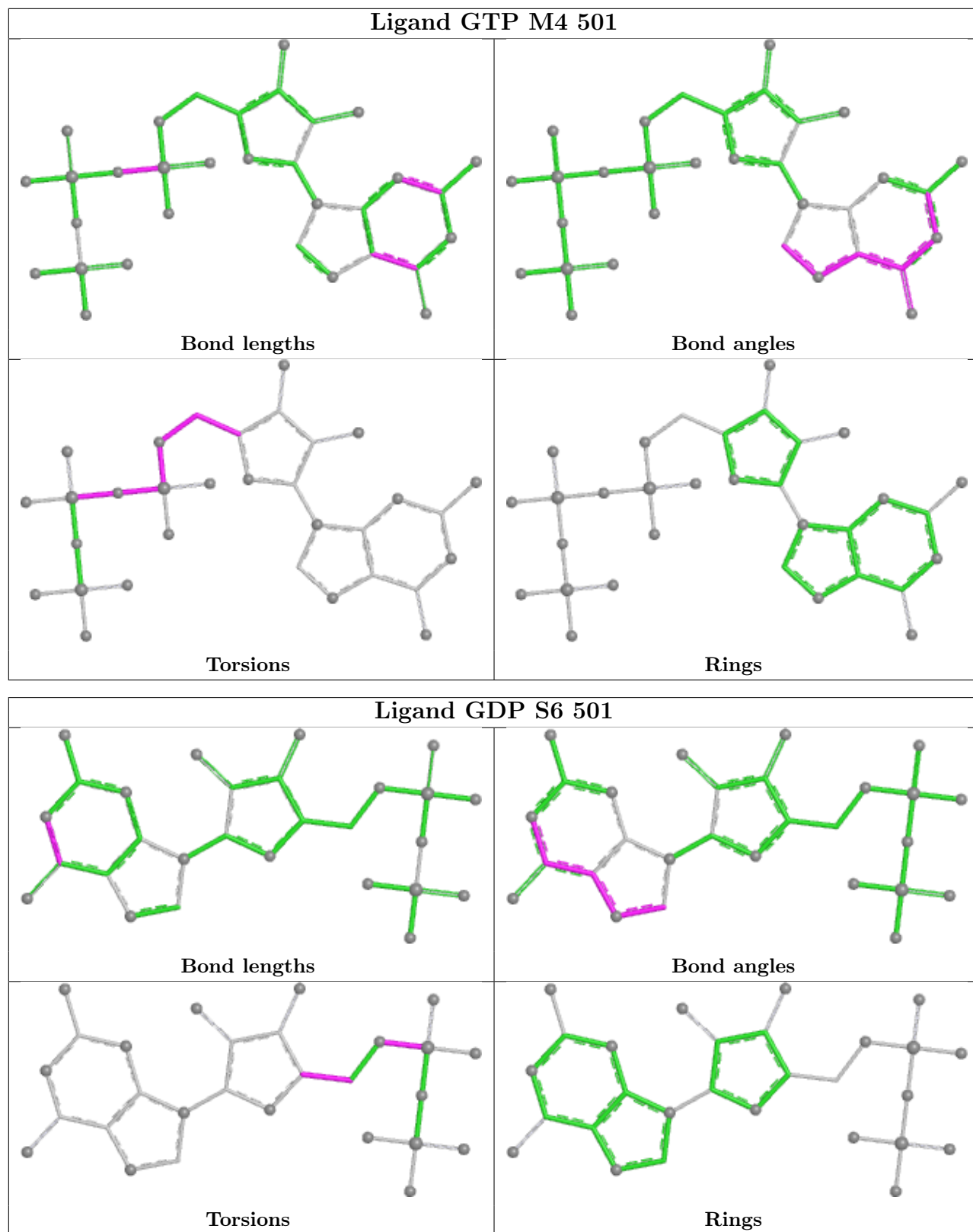
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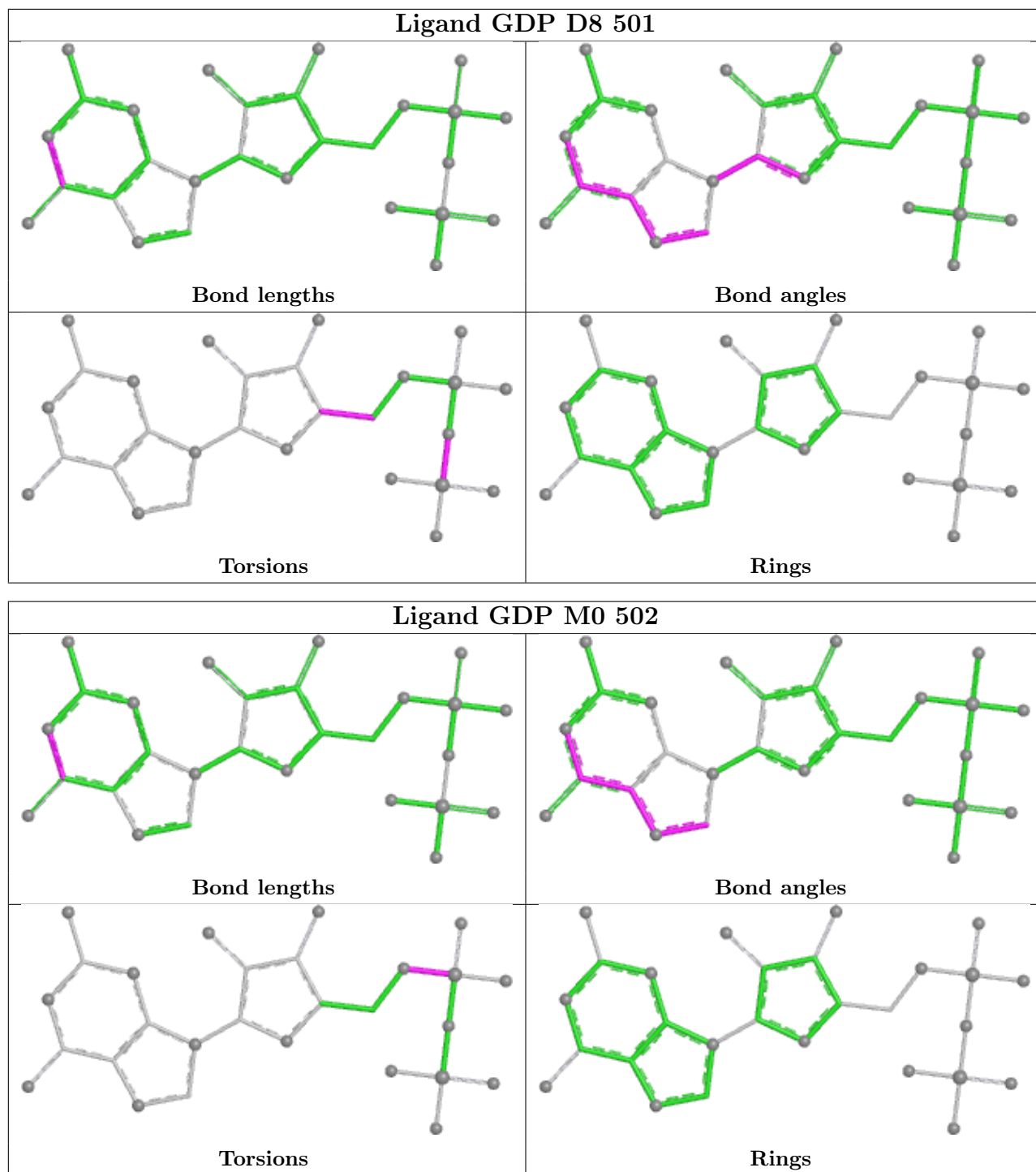
Mol	Chain	Res	Type	Atoms
128	U2	501	GTP	PB-O3A-PA-O2A
128	V8	501	GTP	PB-O3A-PA-O1A
128	1G	501	GTP	O4'-C4'-C5'-O5'
128	KU	501	GTP	O4'-C4'-C5'-O5'
128	Lh	501	GTP	C3'-C4'-C5'-O5'
128	P4	501	GTP	C3'-C4'-C5'-O5'
128	P9	501	GTP	O4'-C4'-C5'-O5'
129	Eu	502	GDP	C3'-C4'-C5'-O5'
129	I2	501	GDP	C3'-C4'-C5'-O5'
129	O0	502	GDP	O4'-C4'-C5'-O5'
129	S6	501	GDP	C3'-C4'-C5'-O5'
128	Ao	501	GTP	PA-O3A-PB-O3B

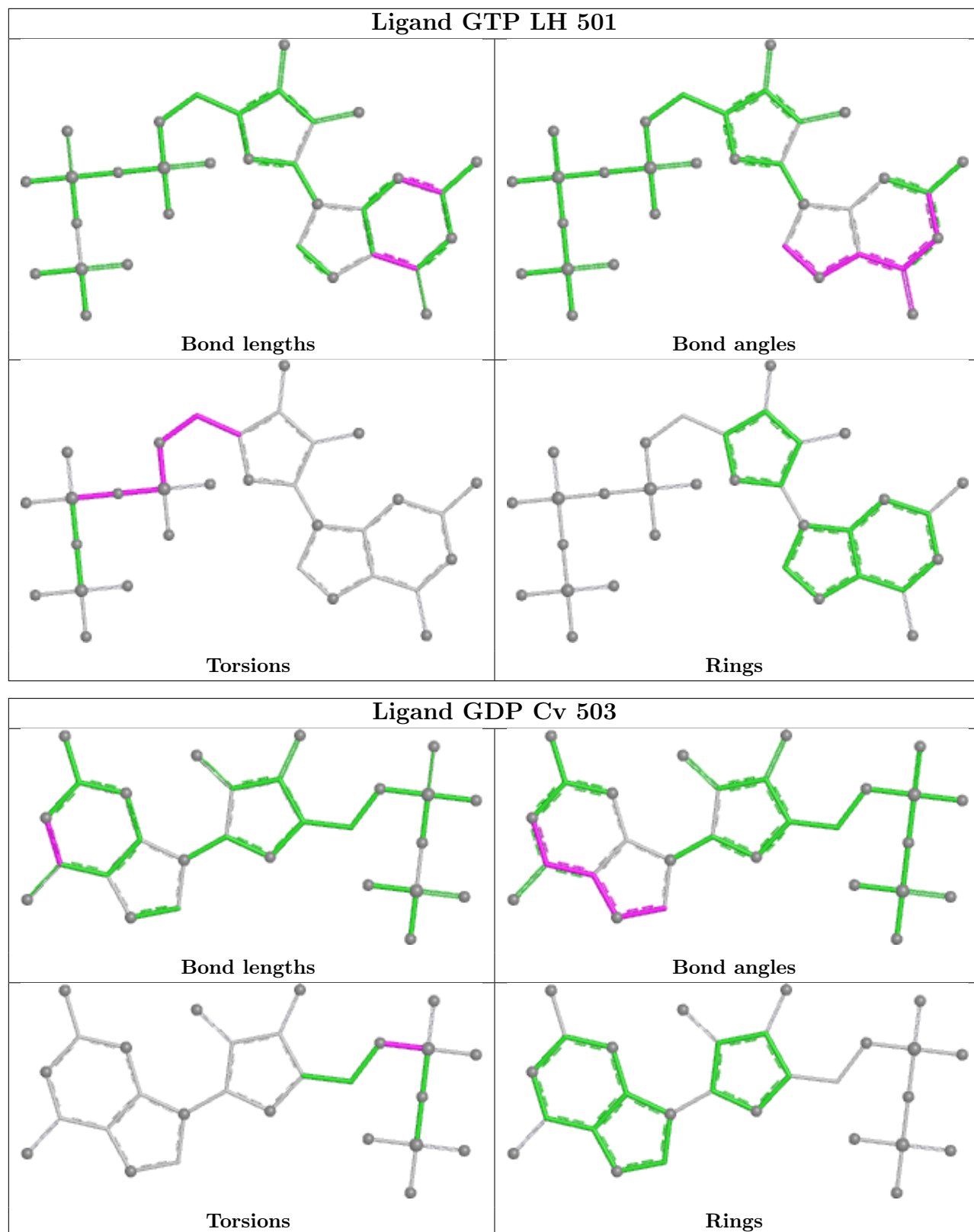
There are no ring outliers.

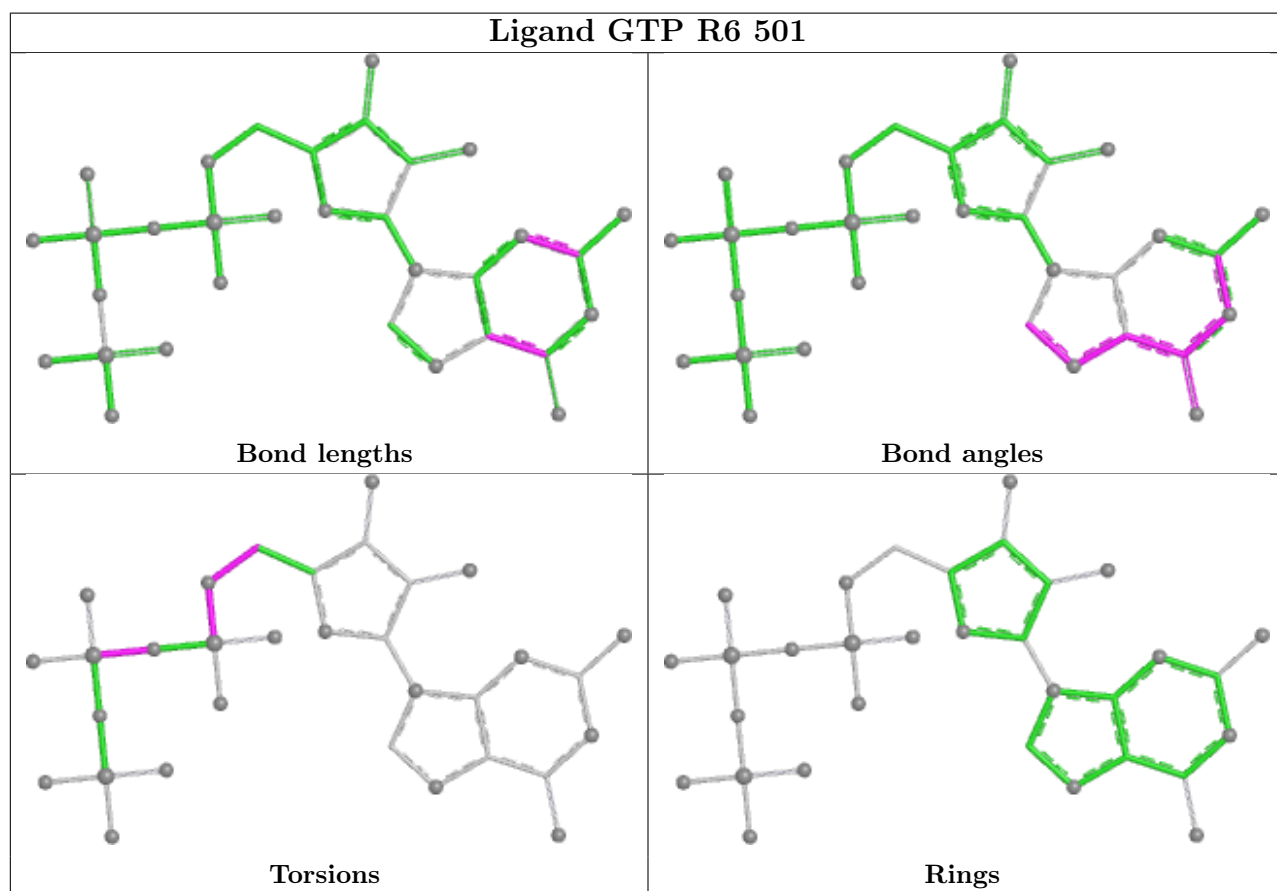
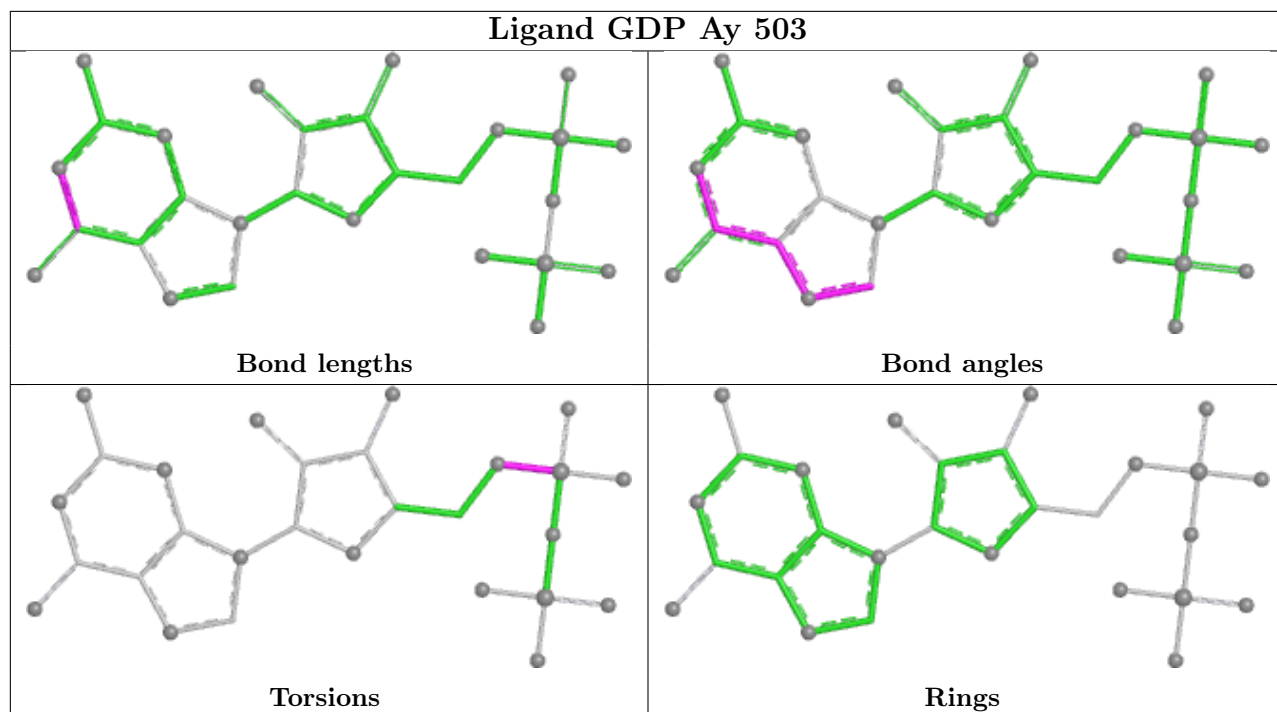
No monomer is involved in short contacts.

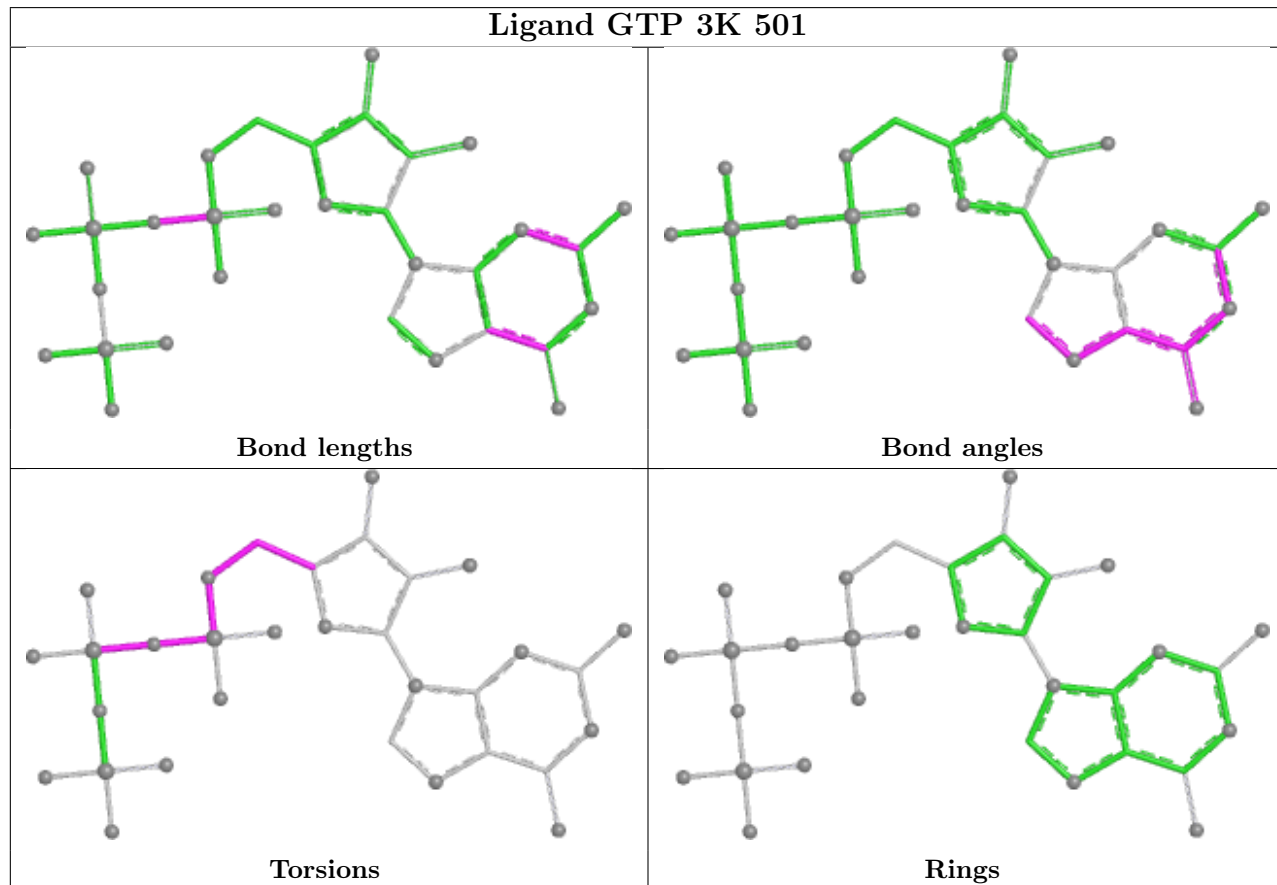
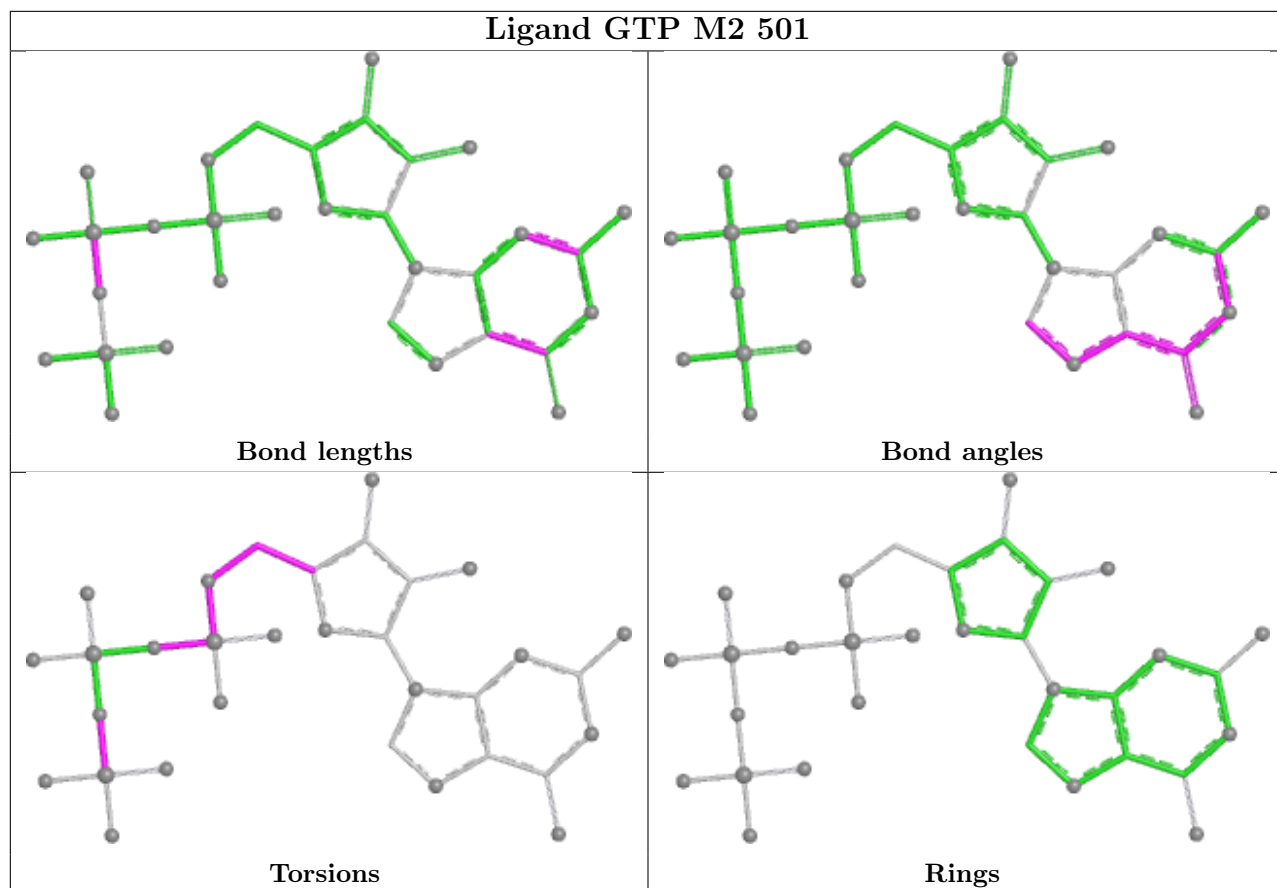
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

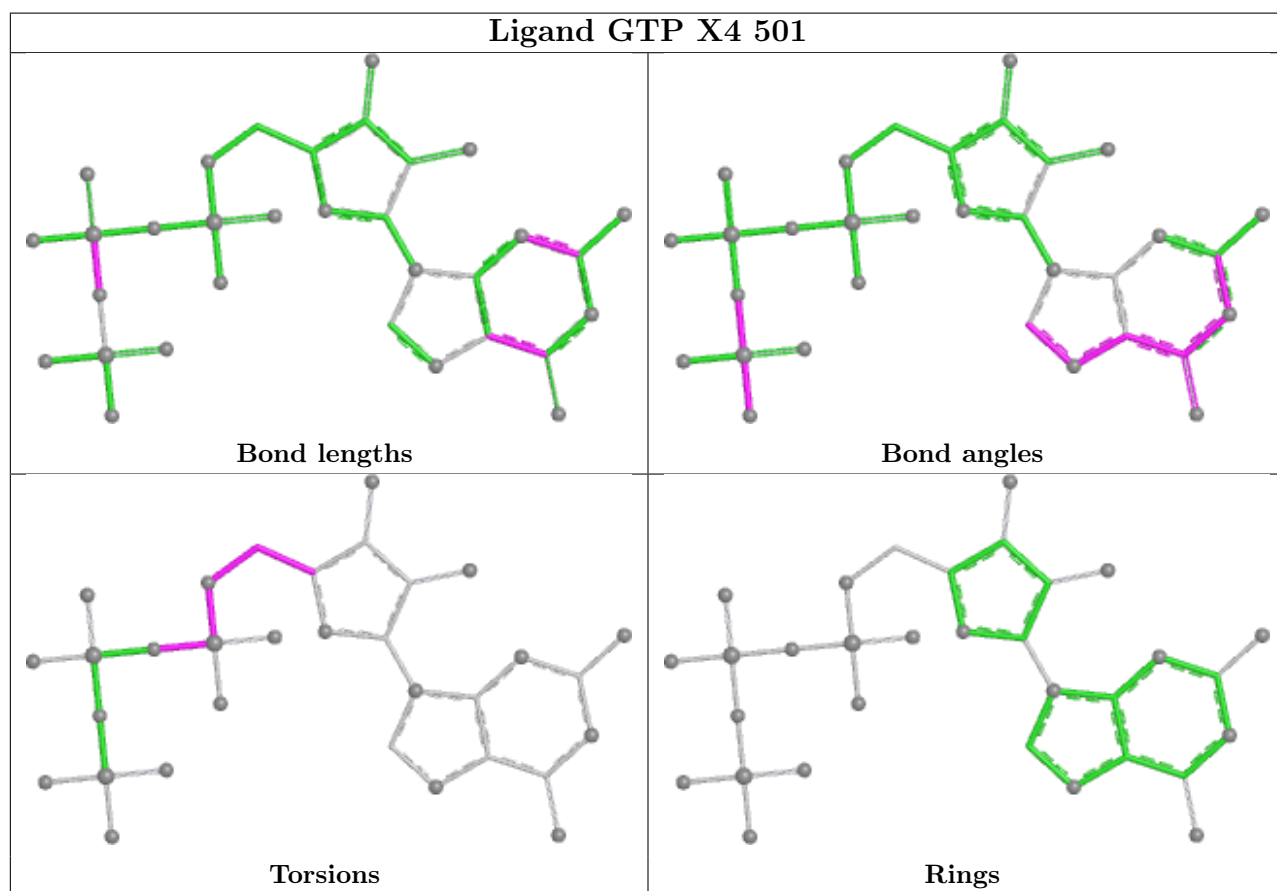
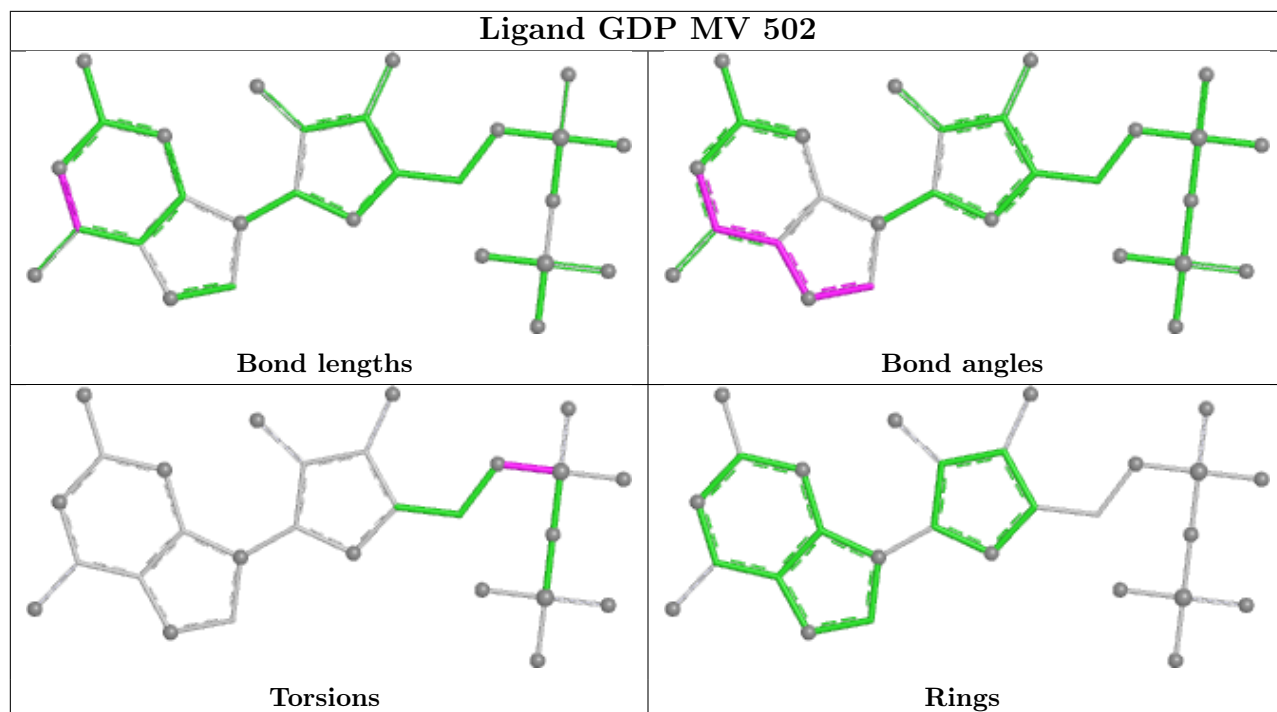


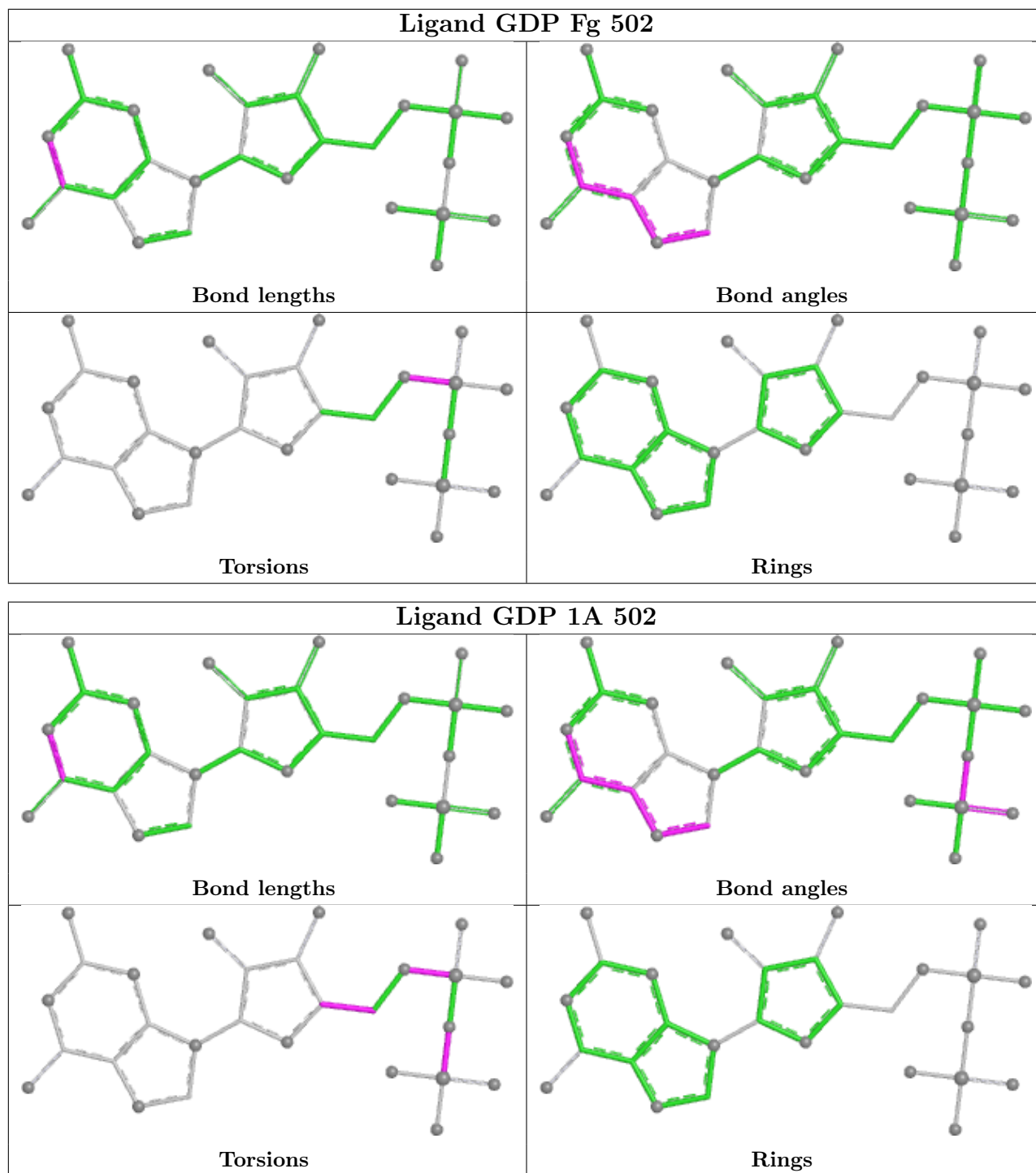


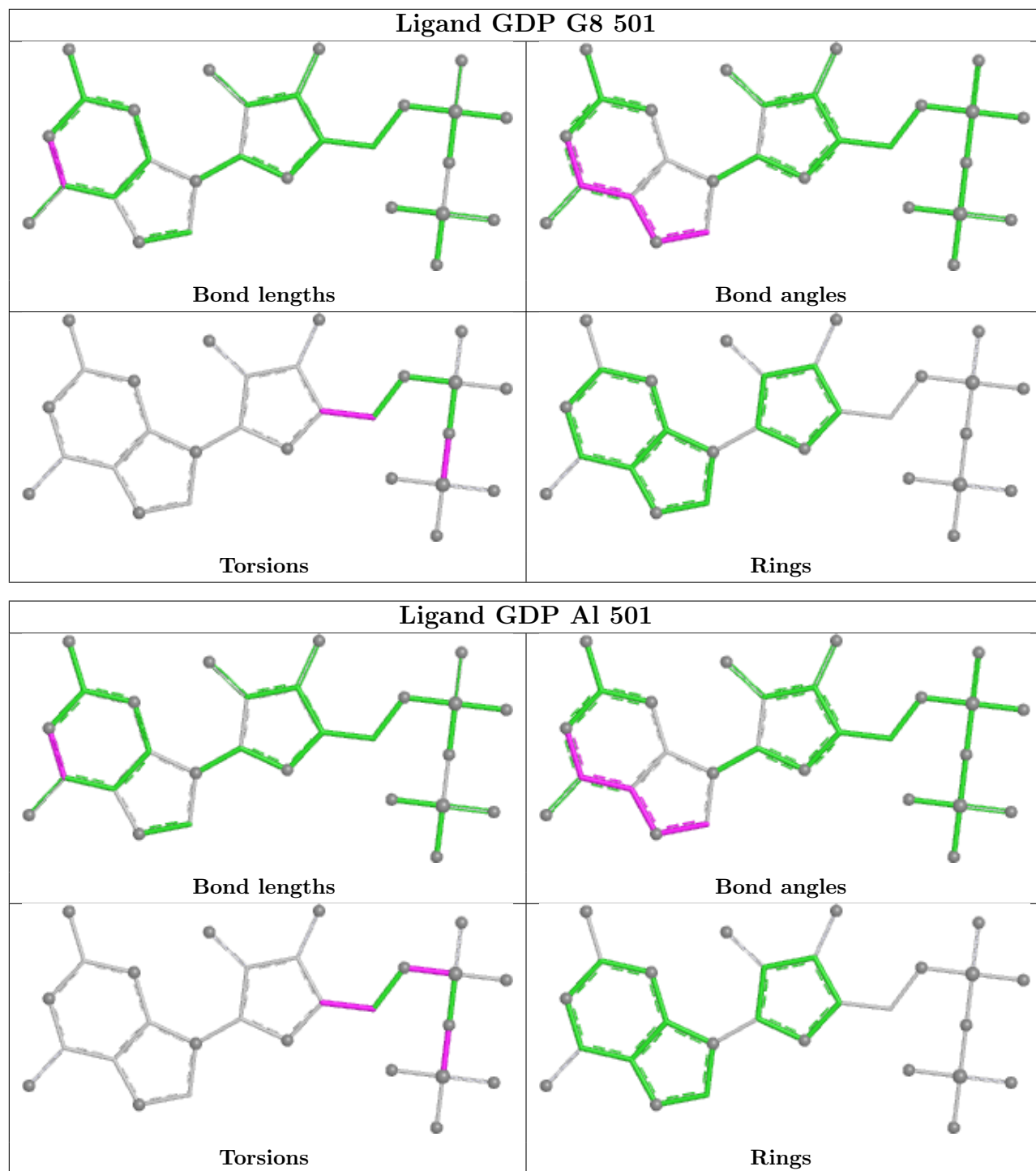


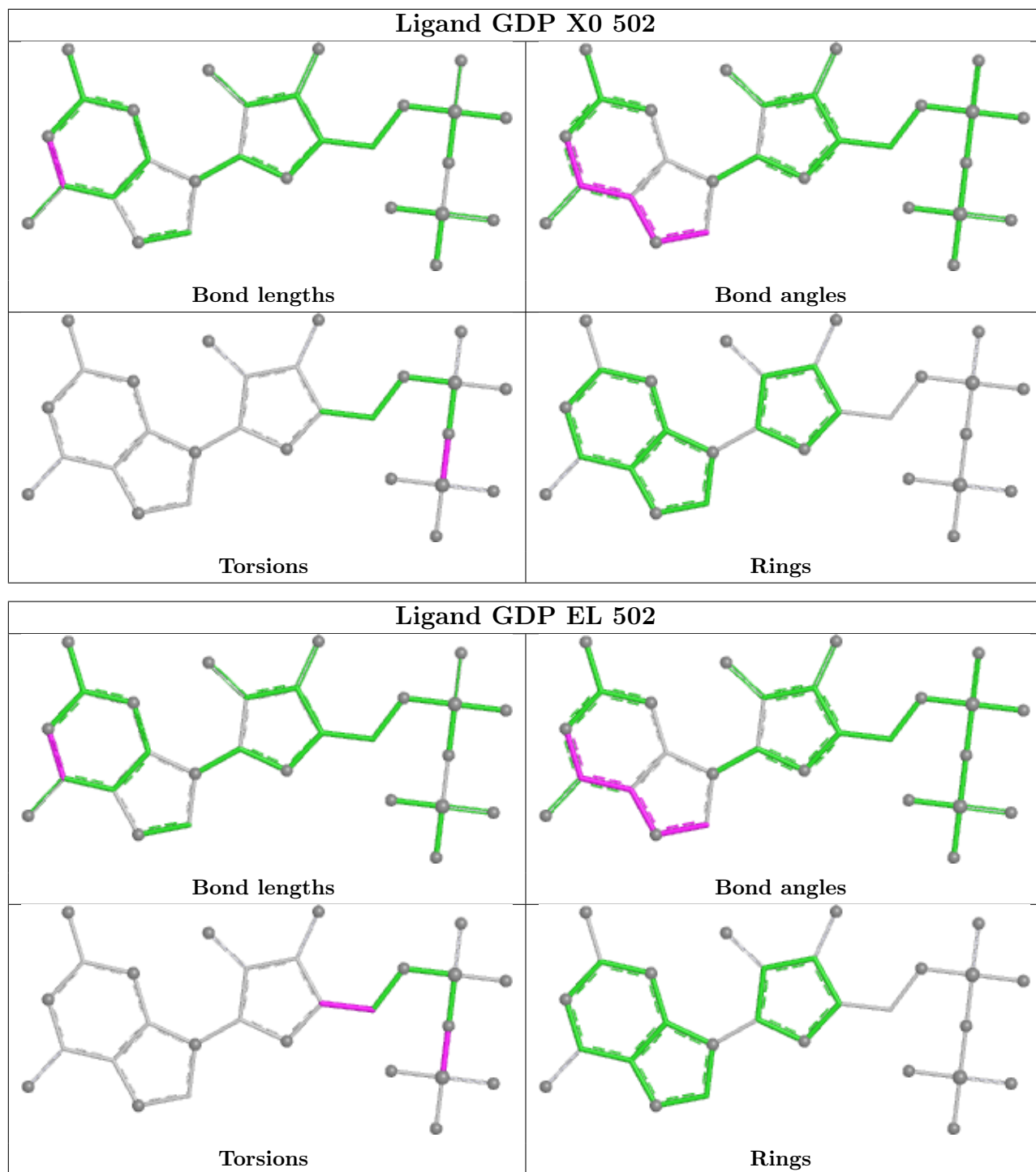


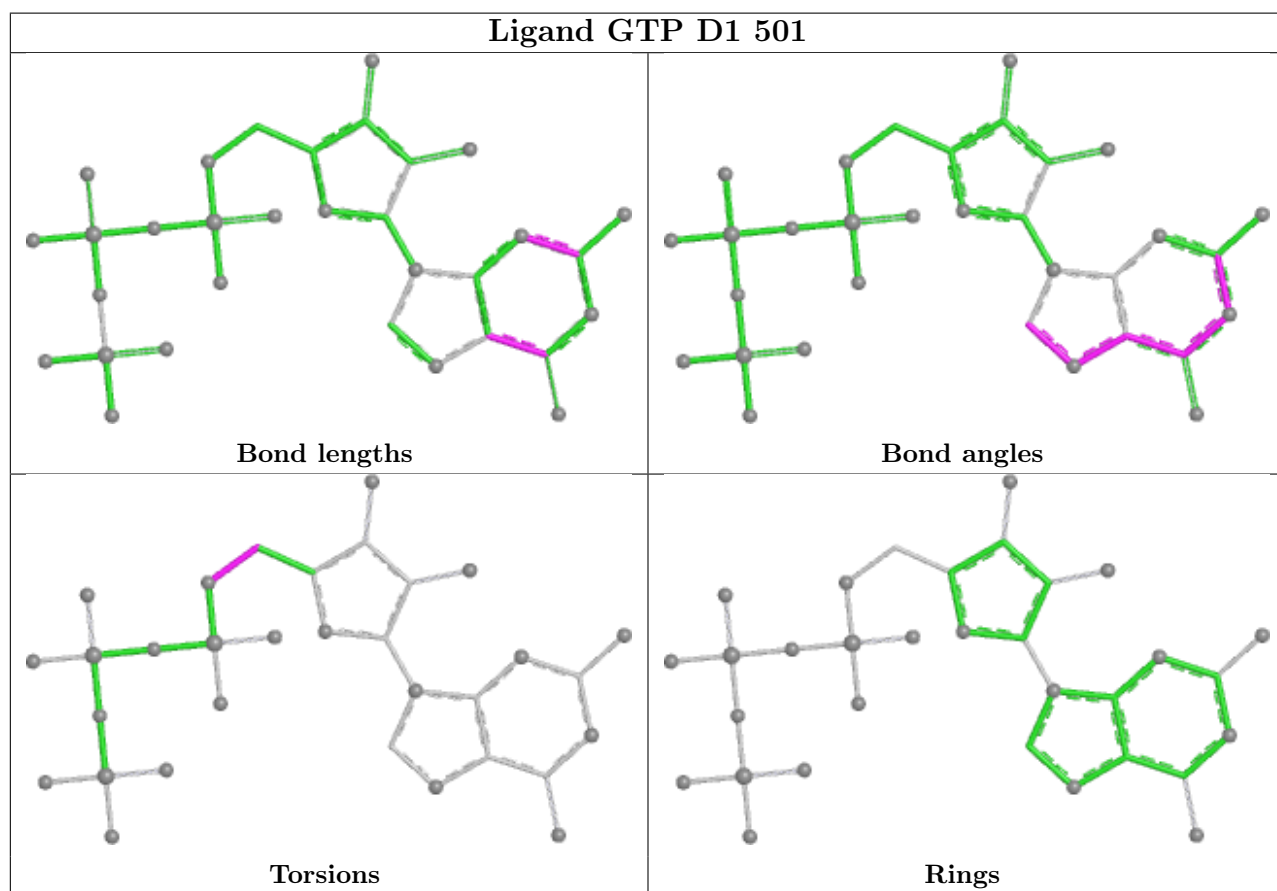
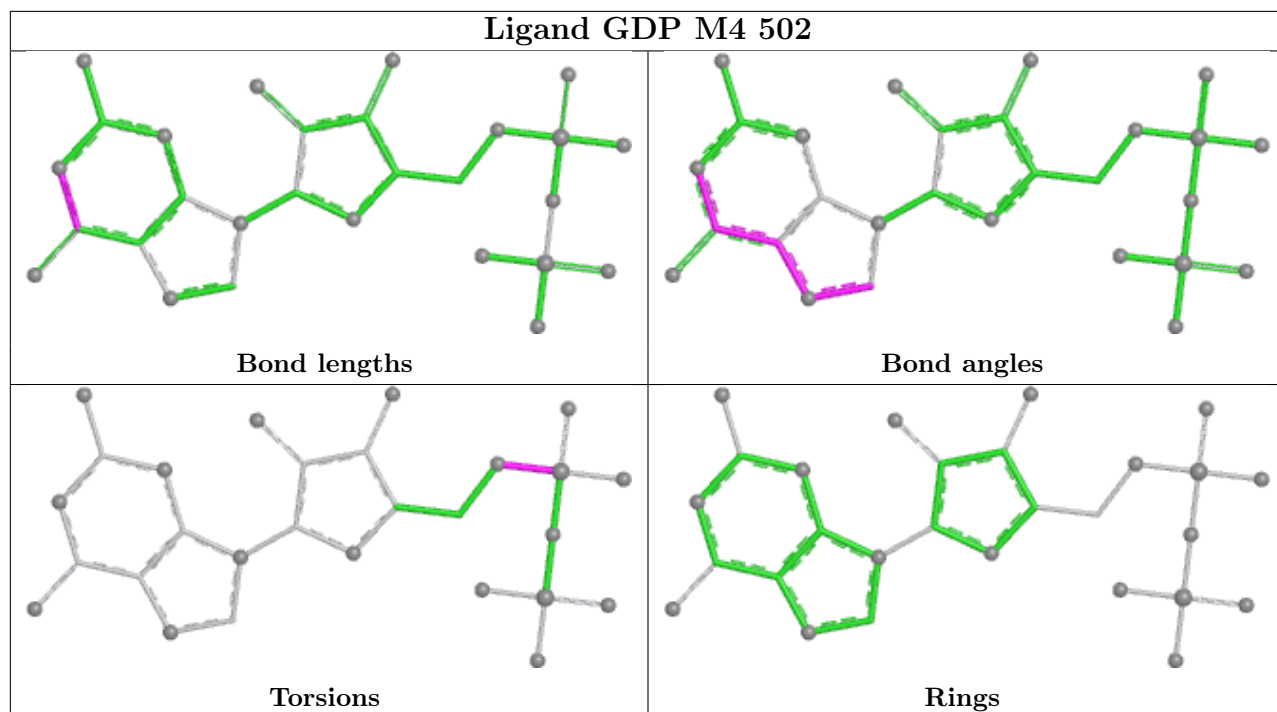


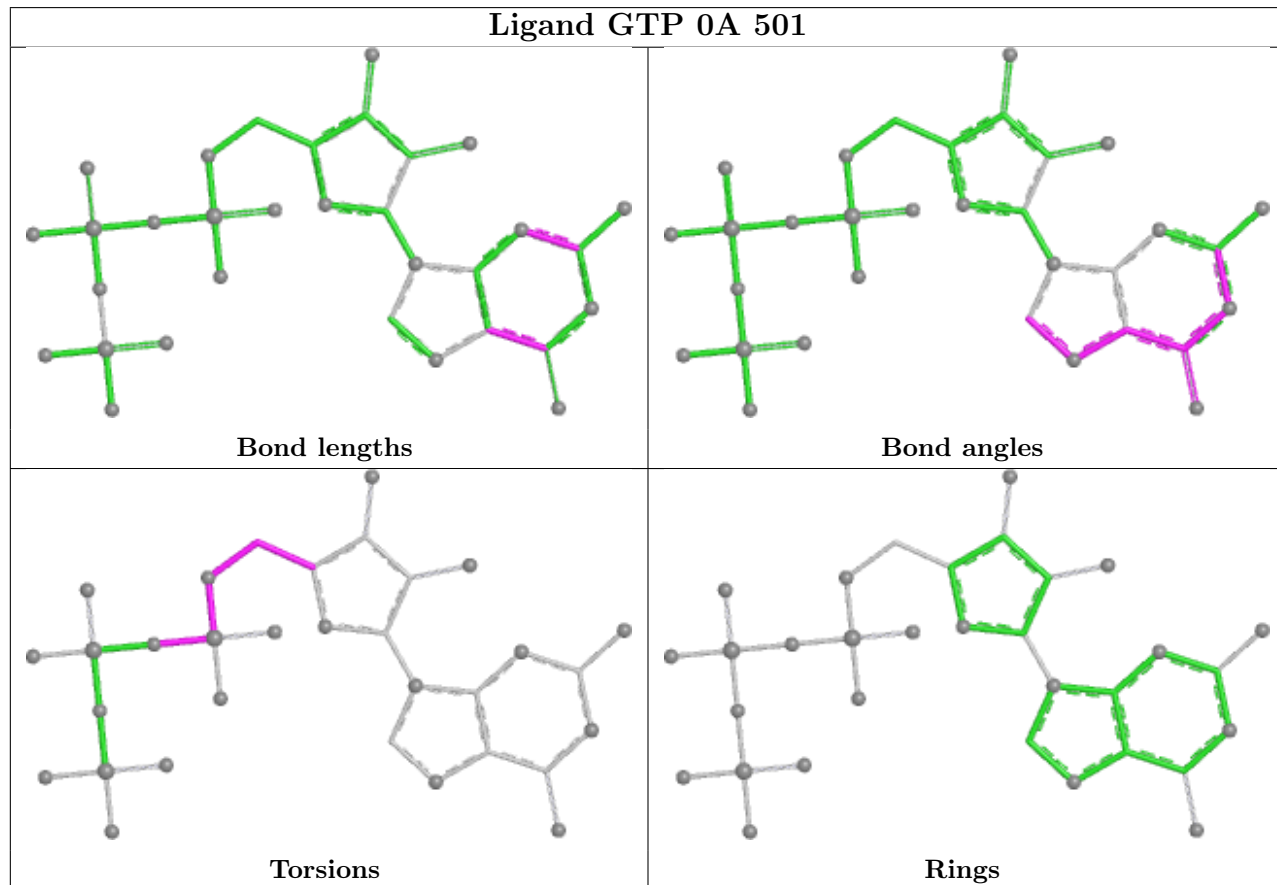
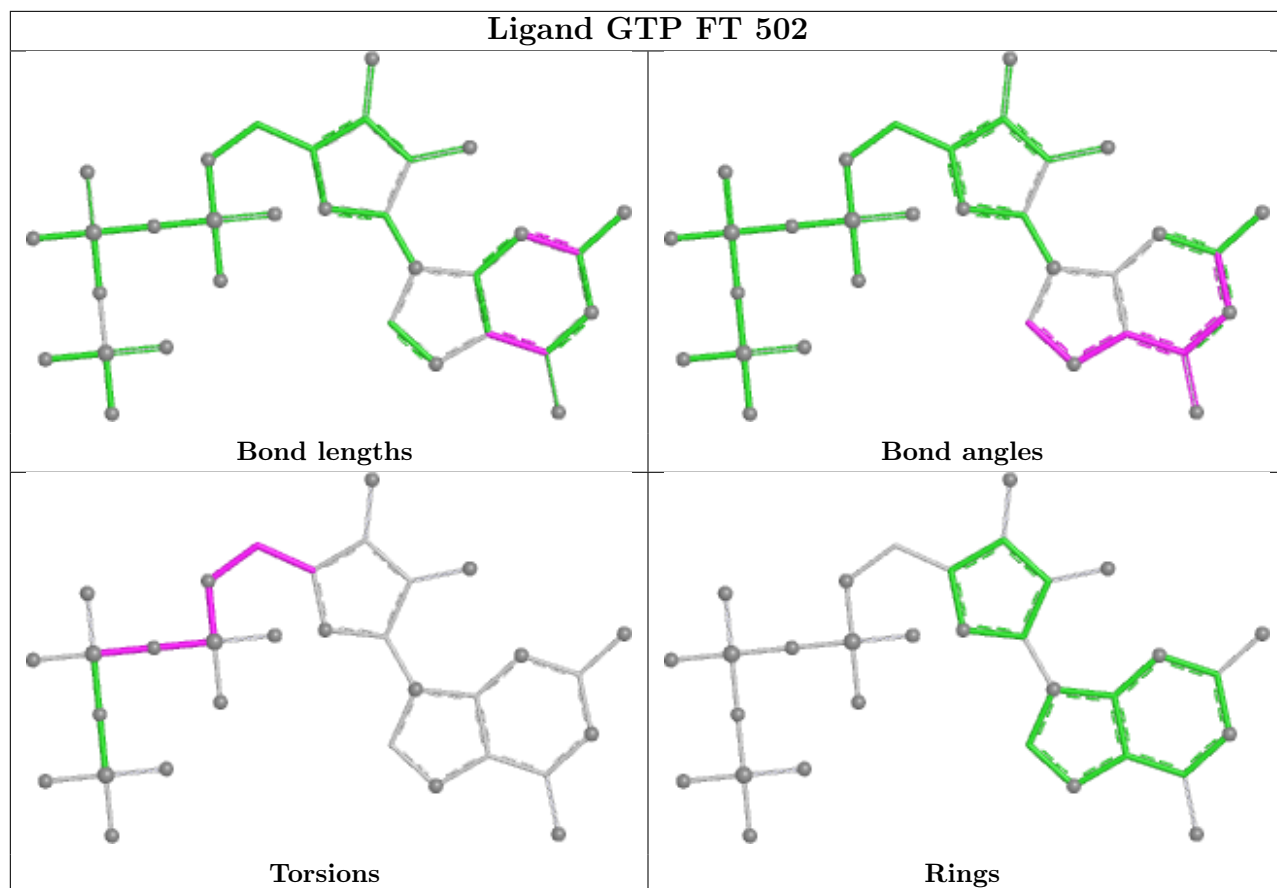


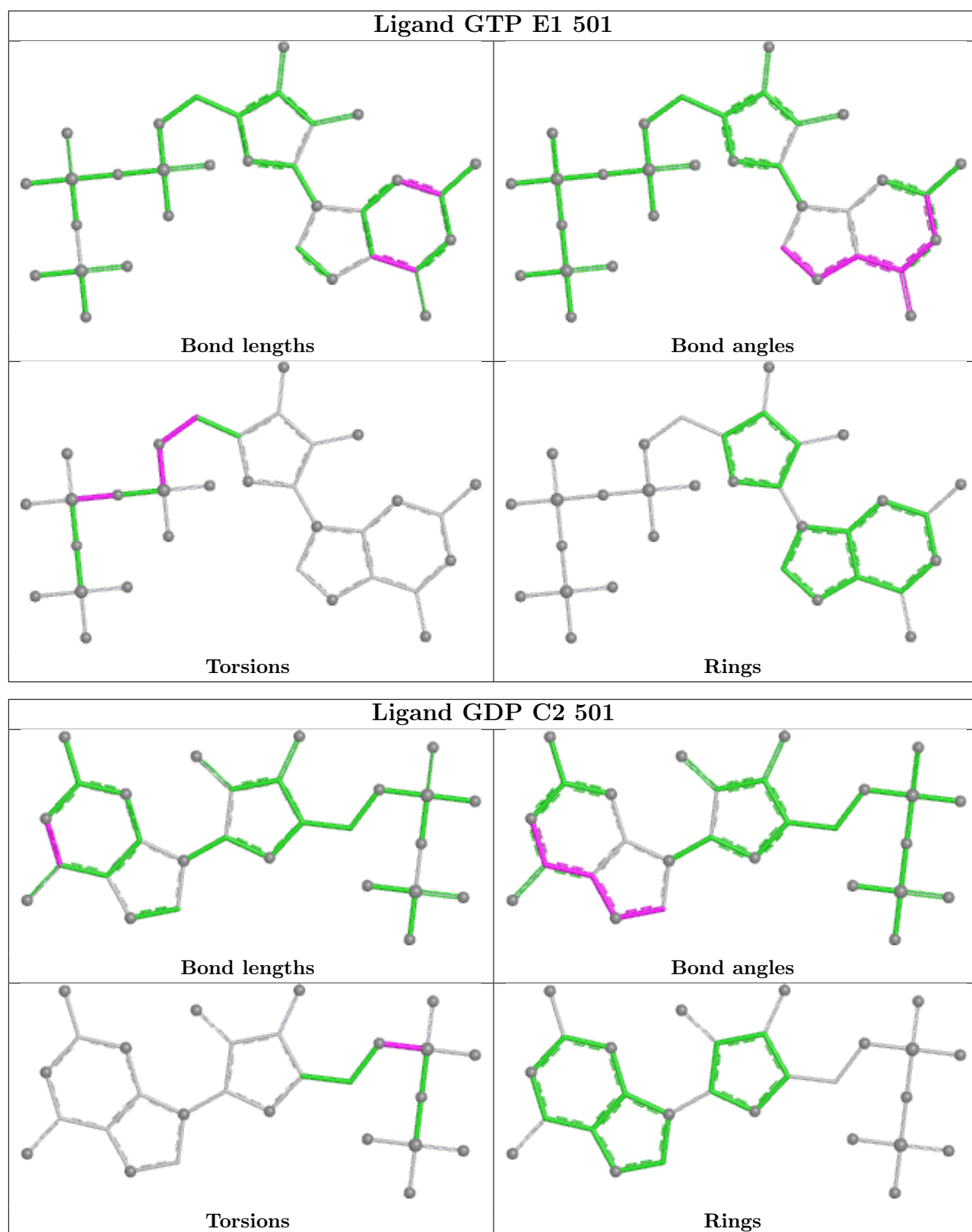


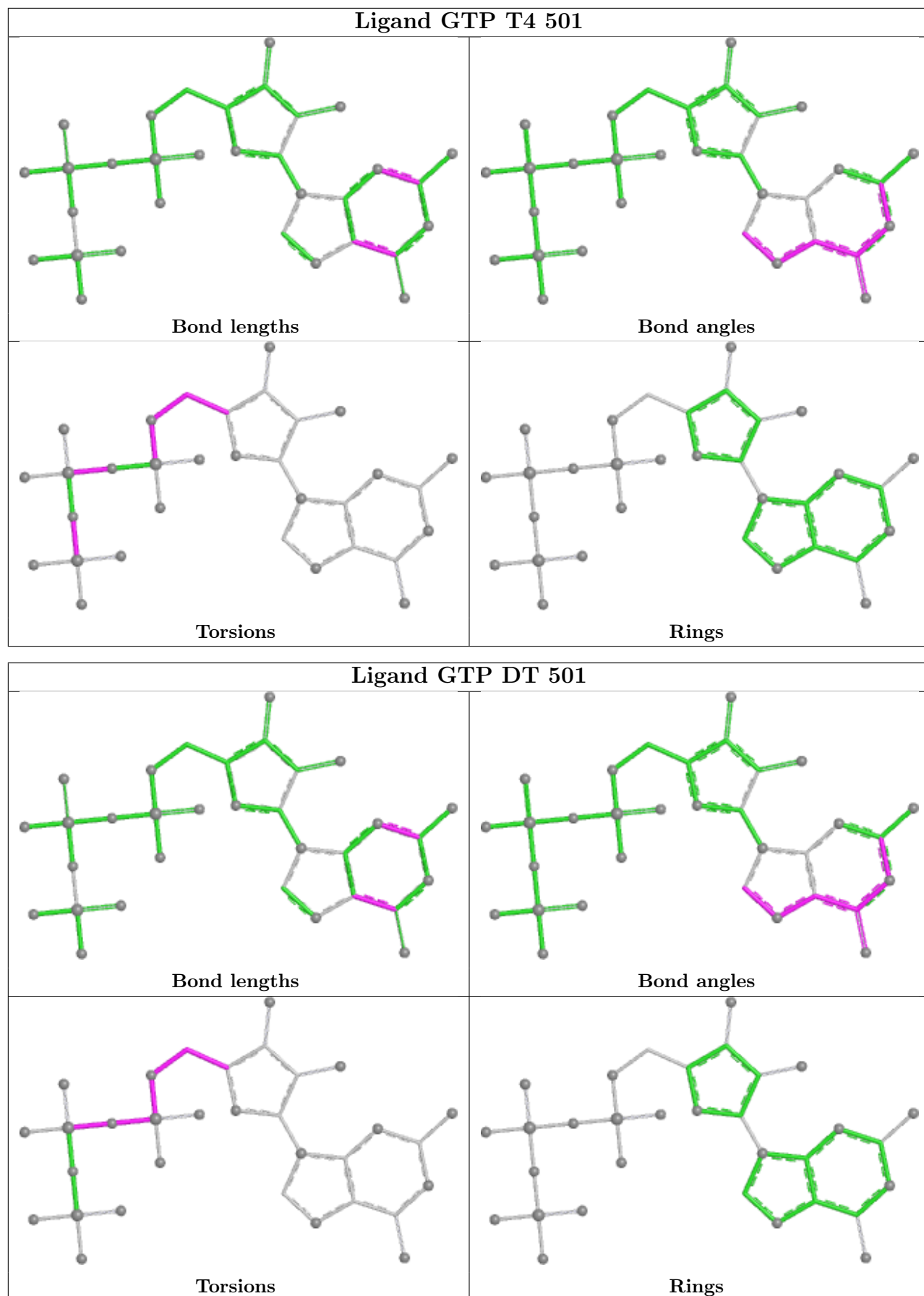


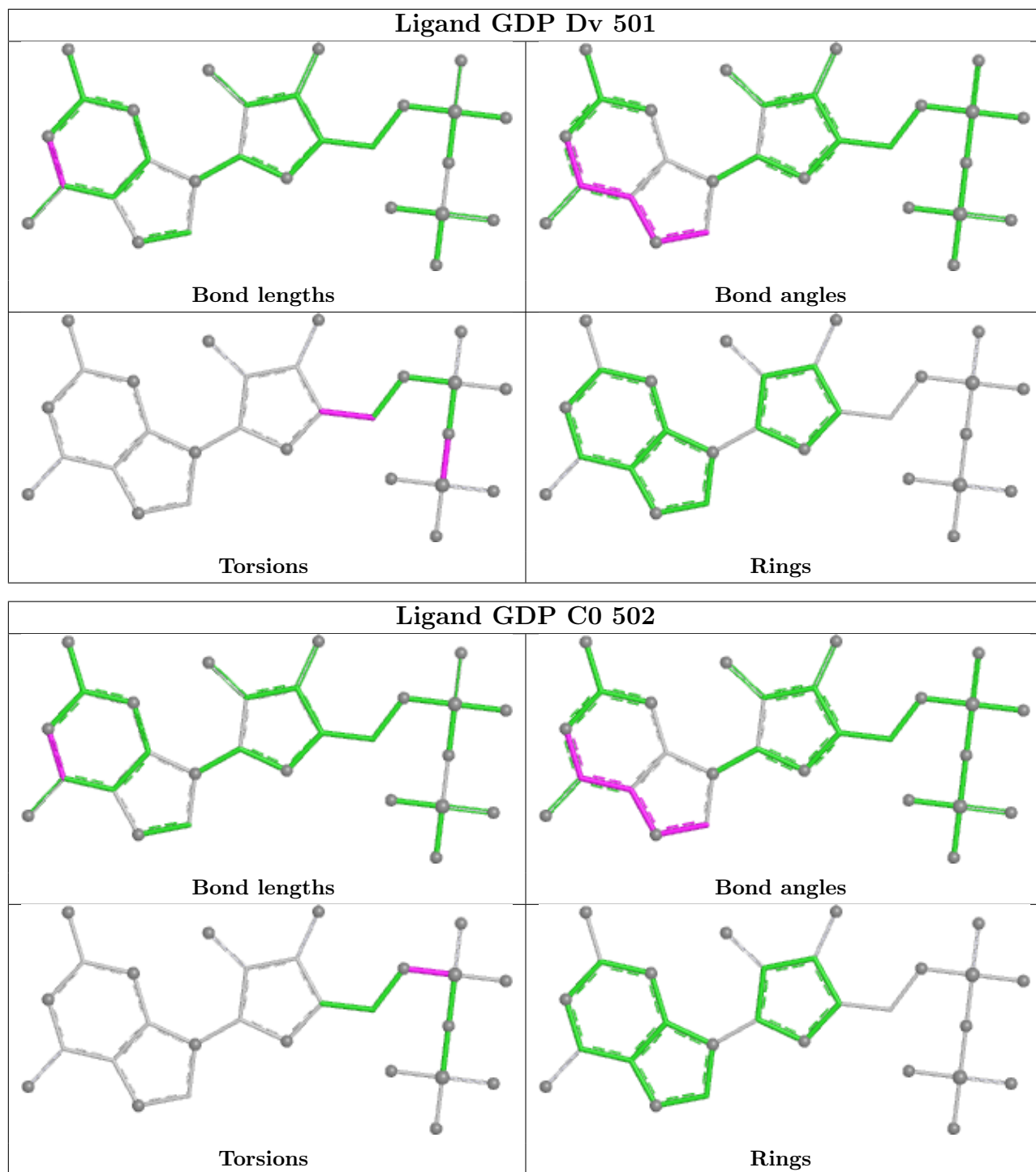


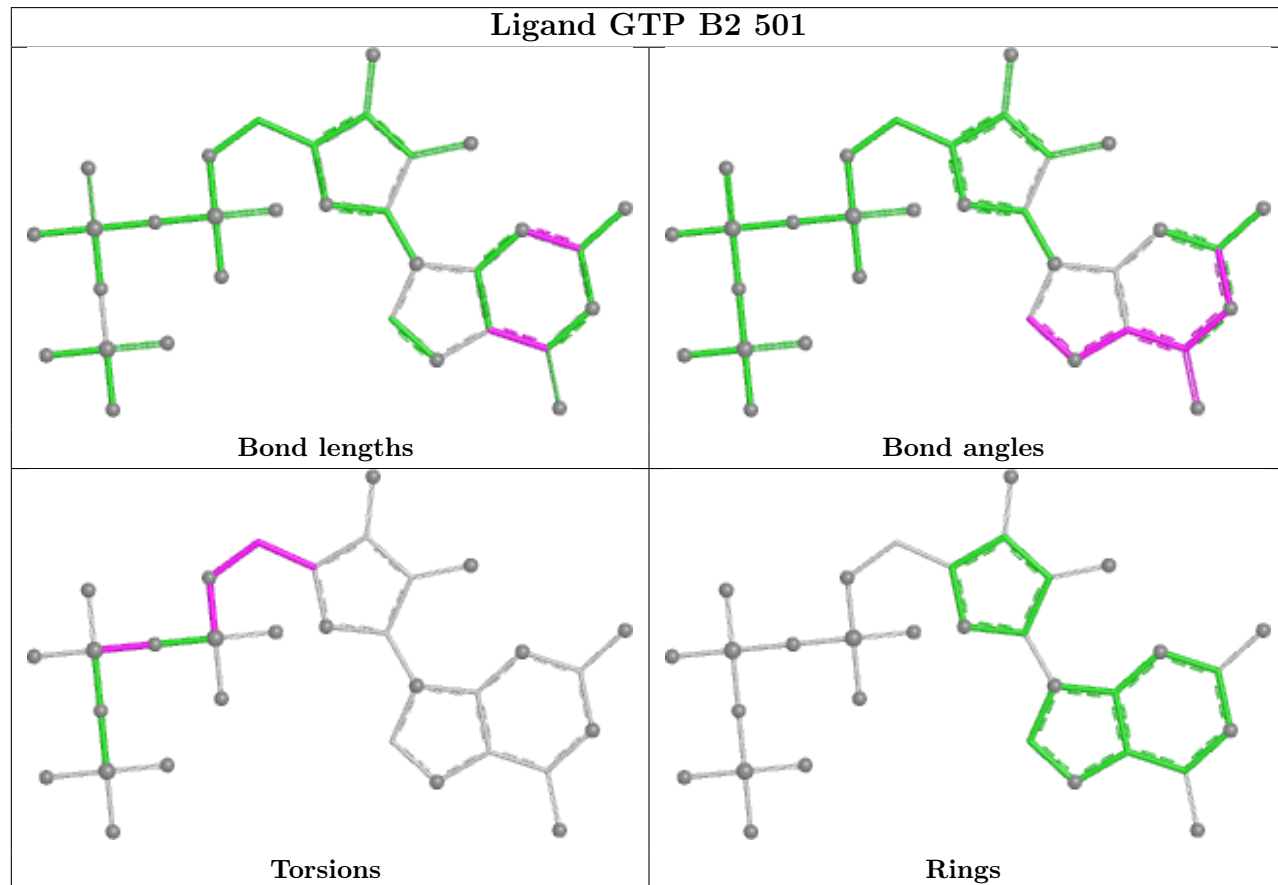
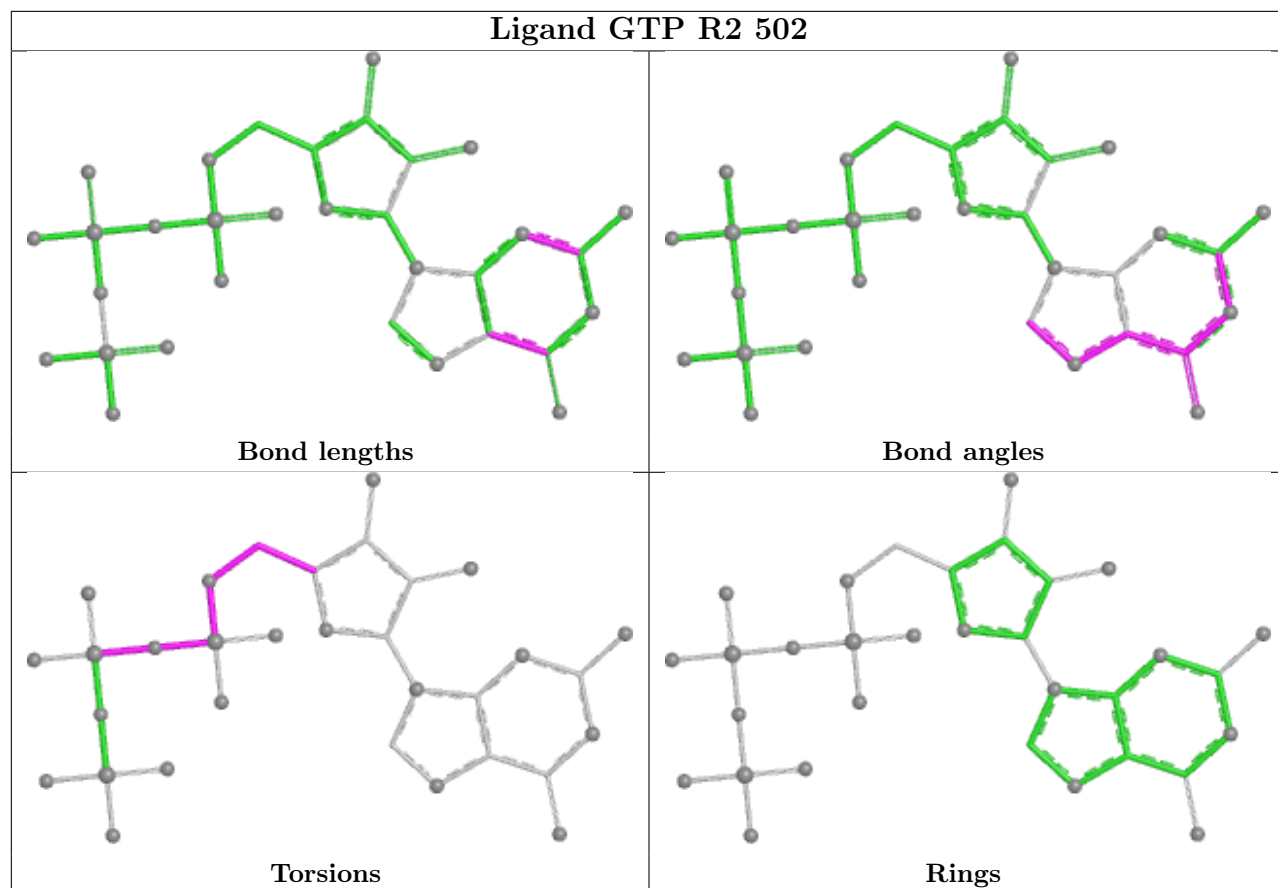


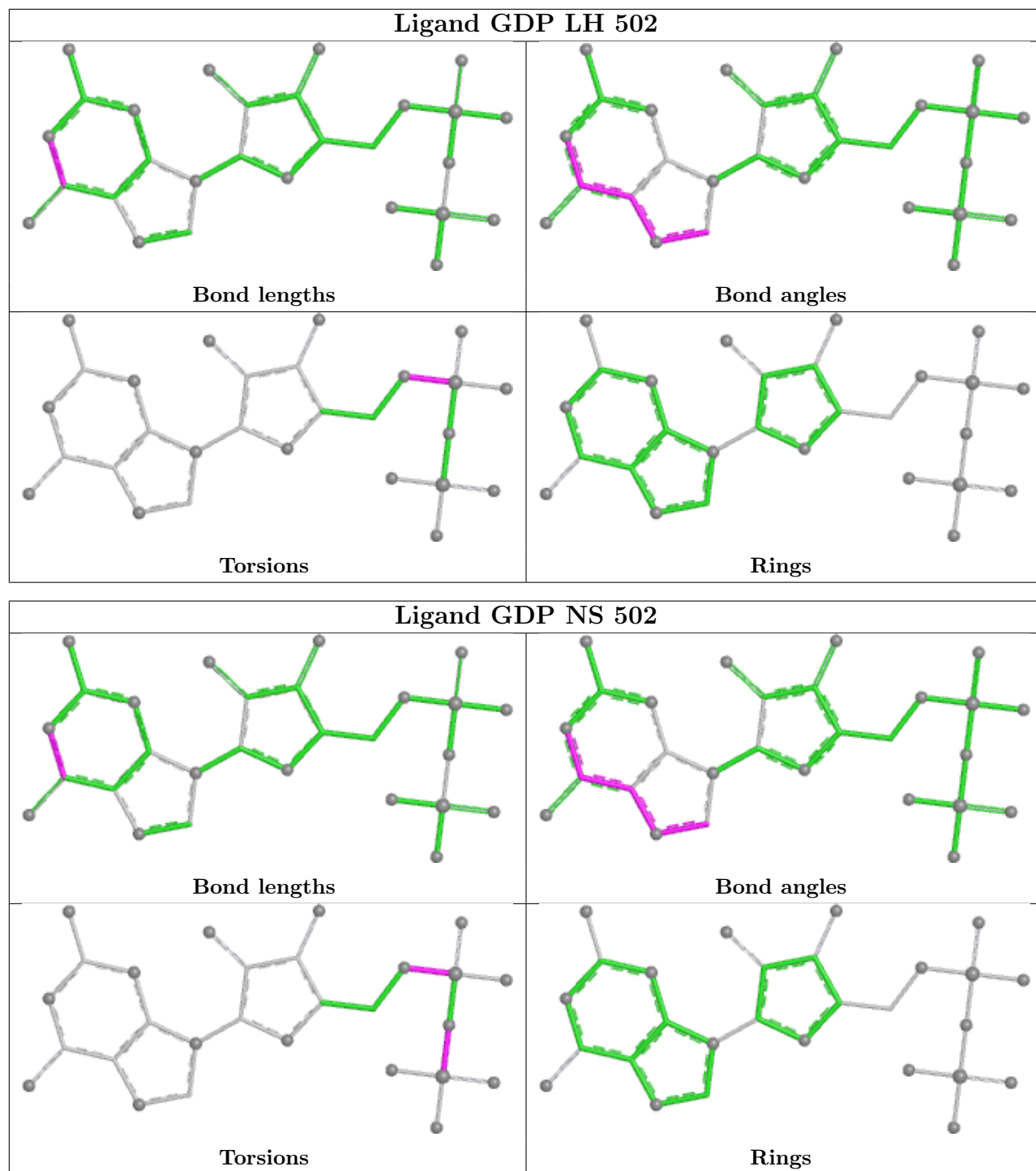


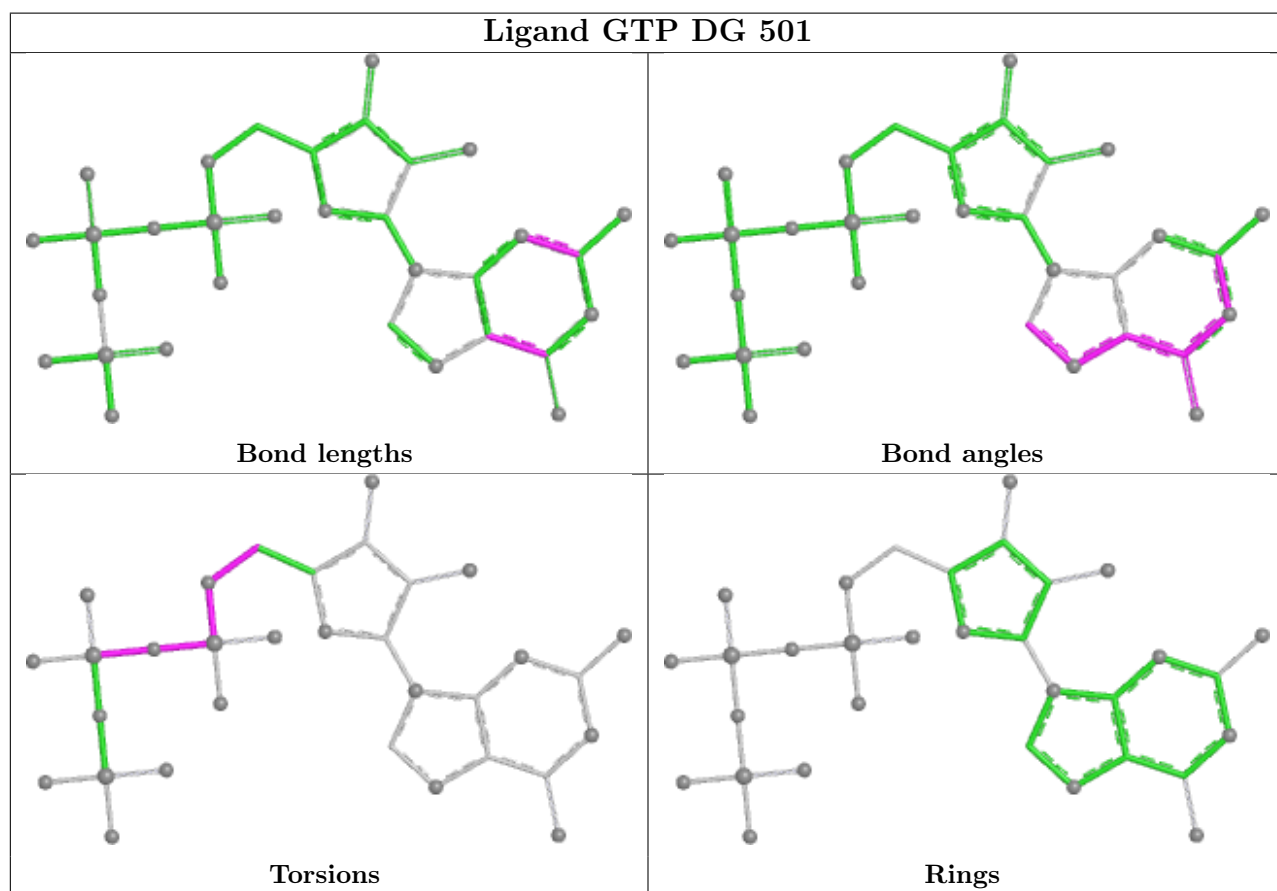
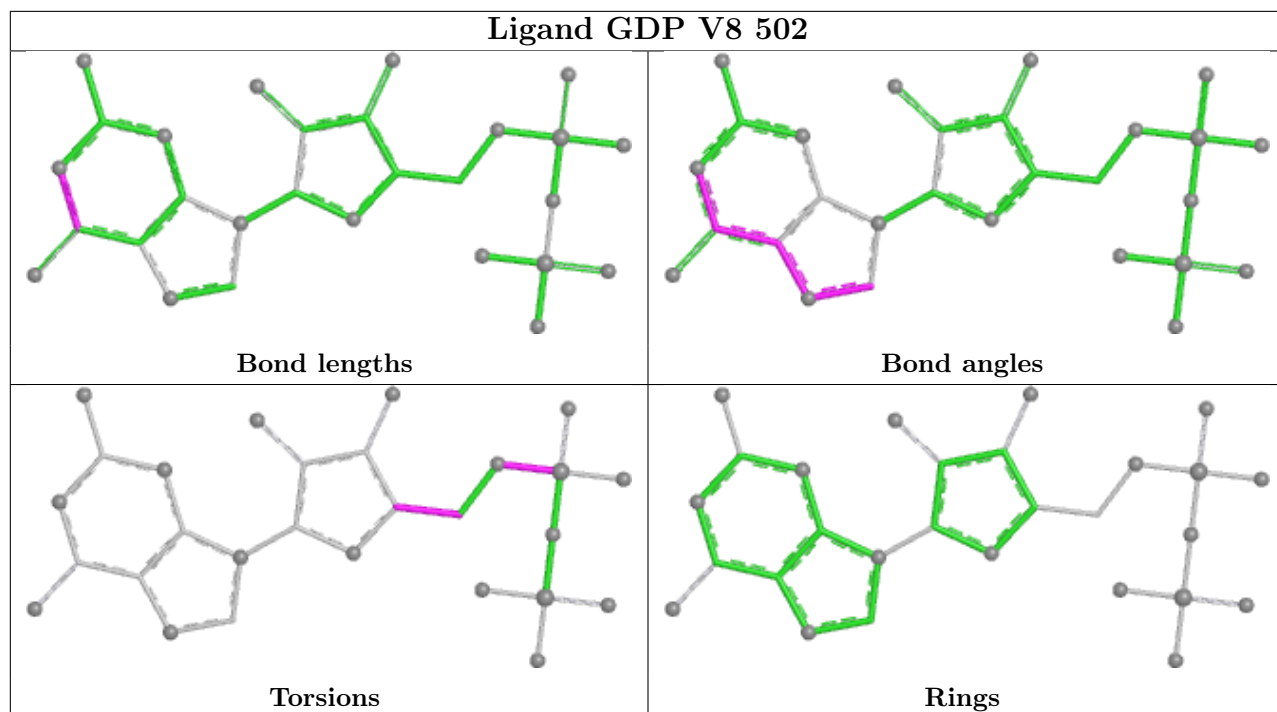


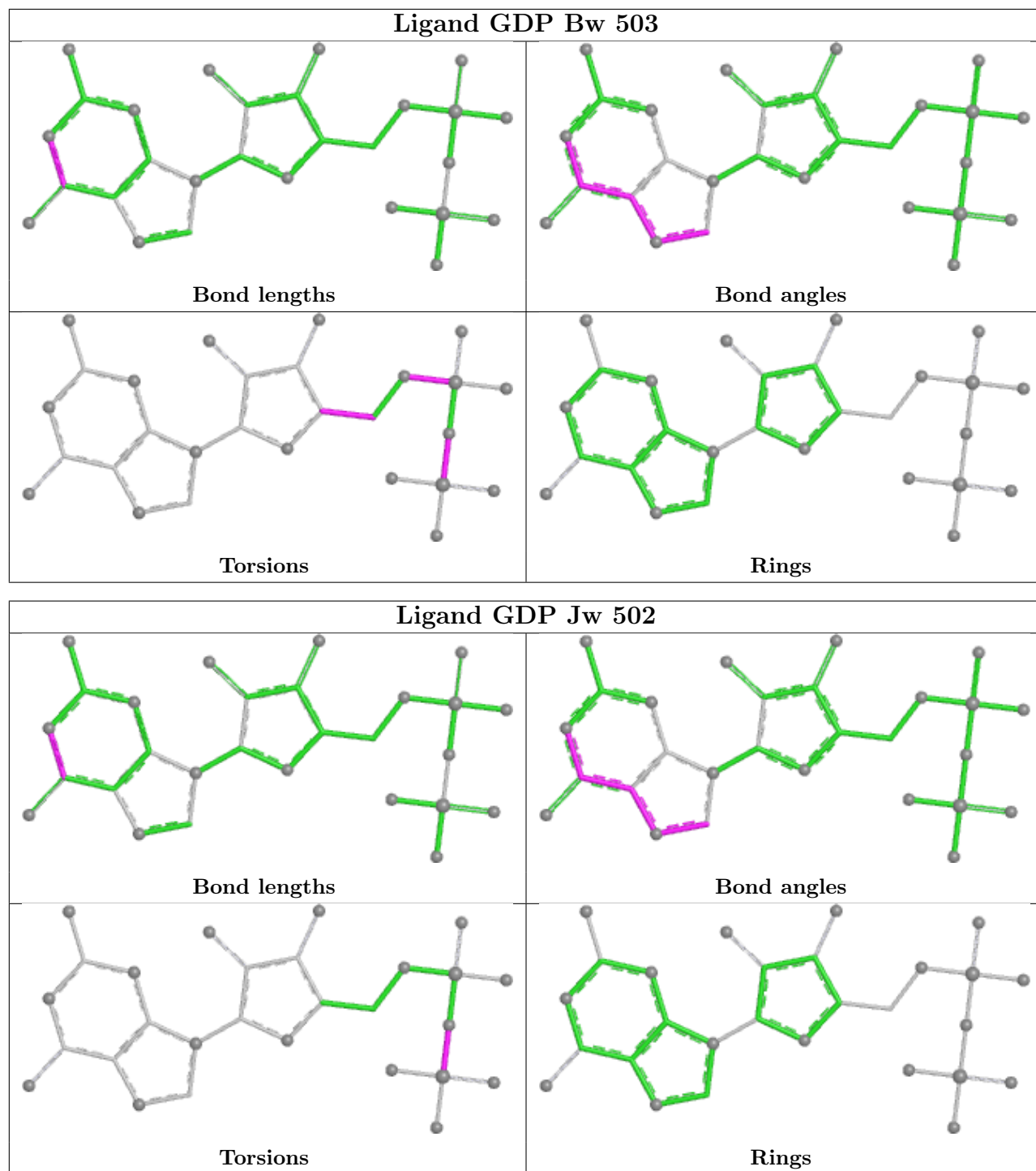


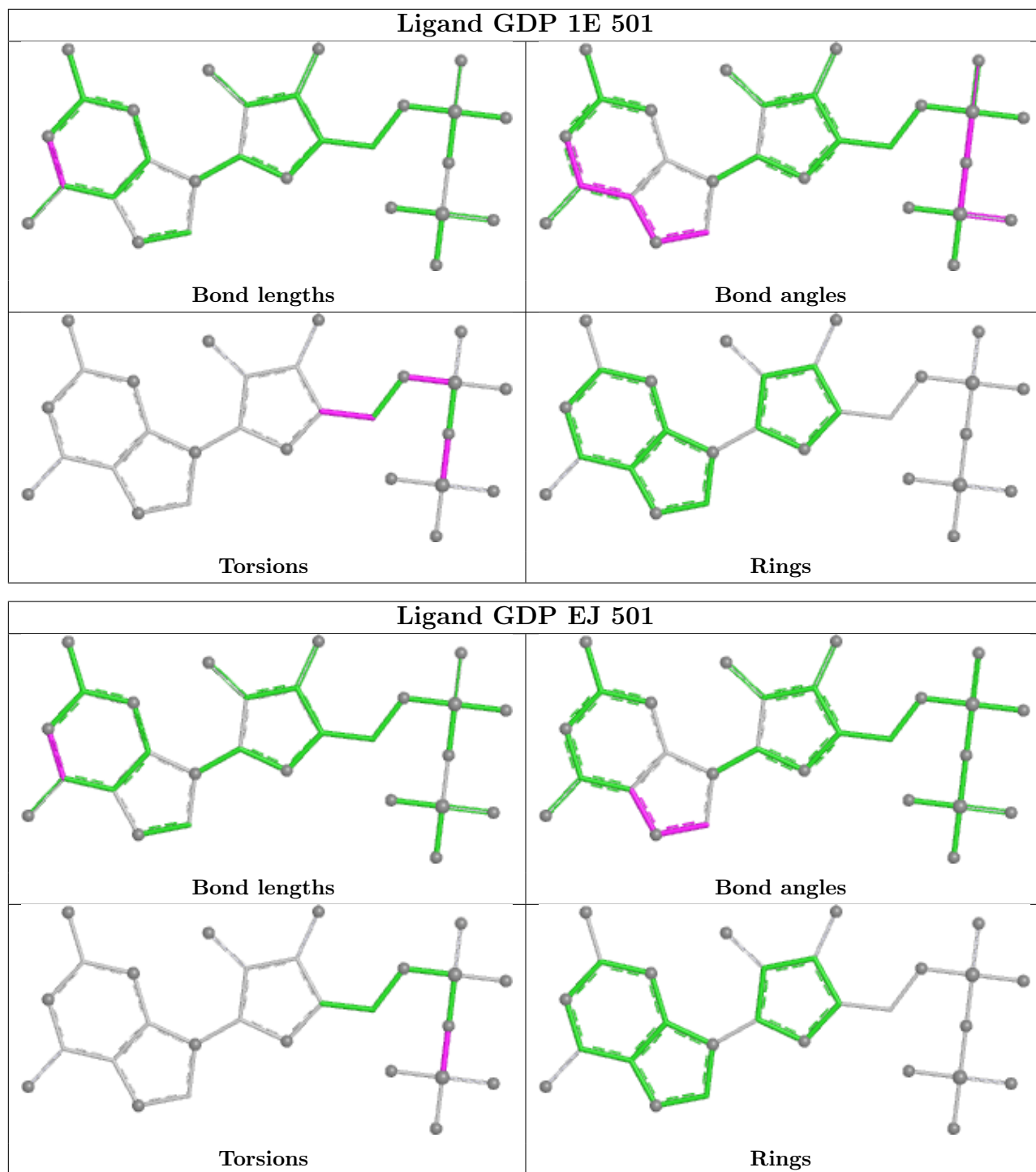


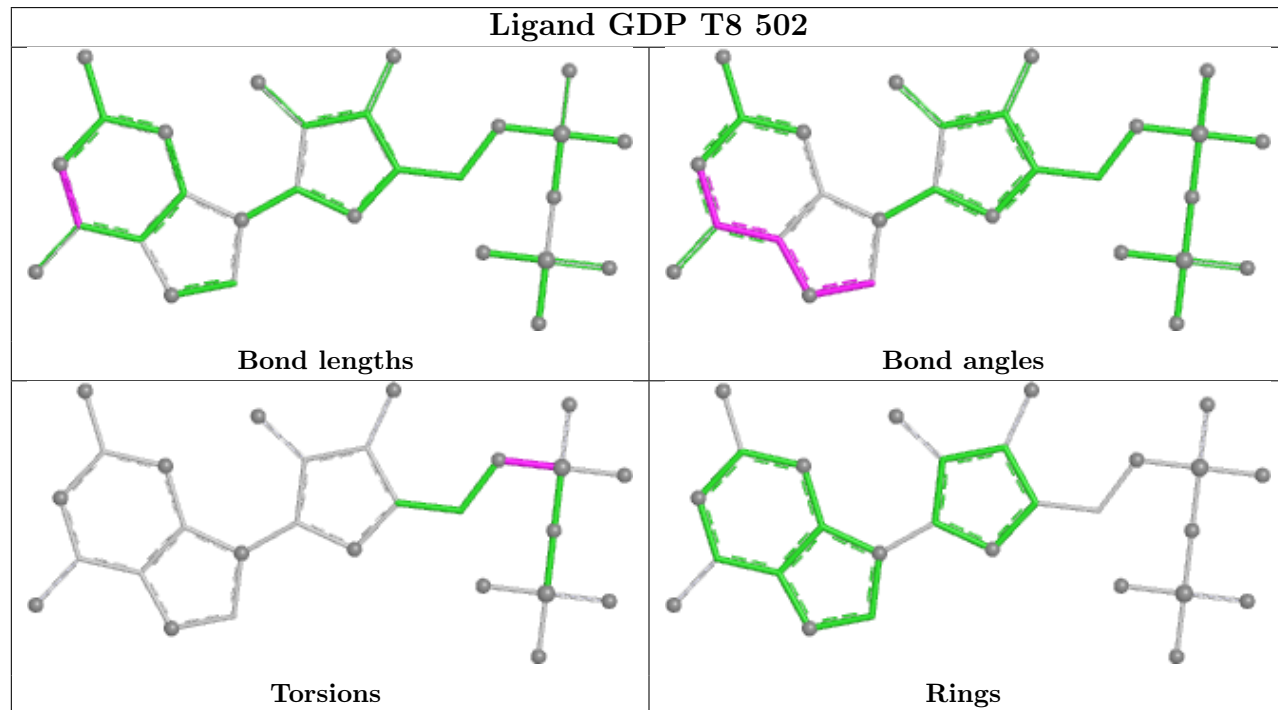
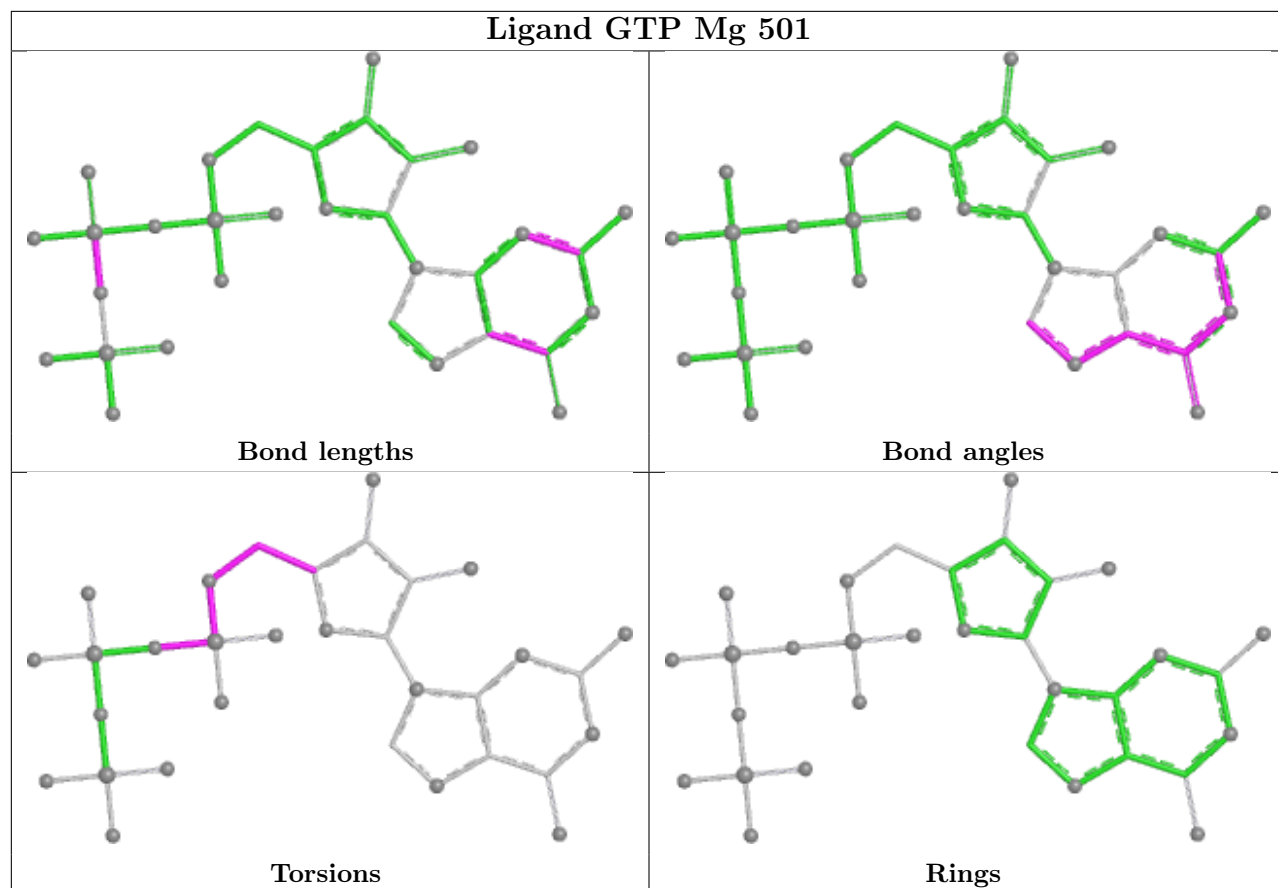


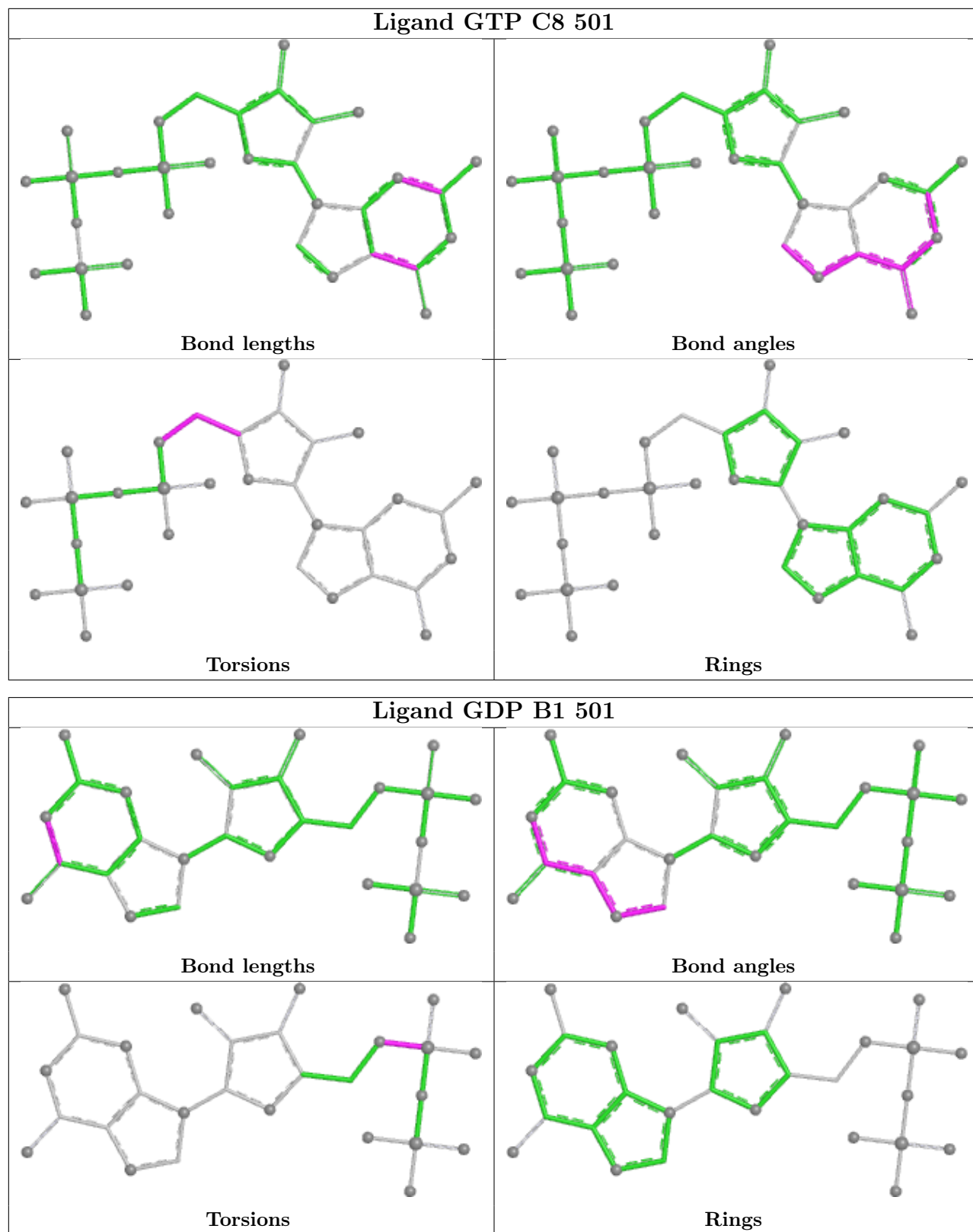


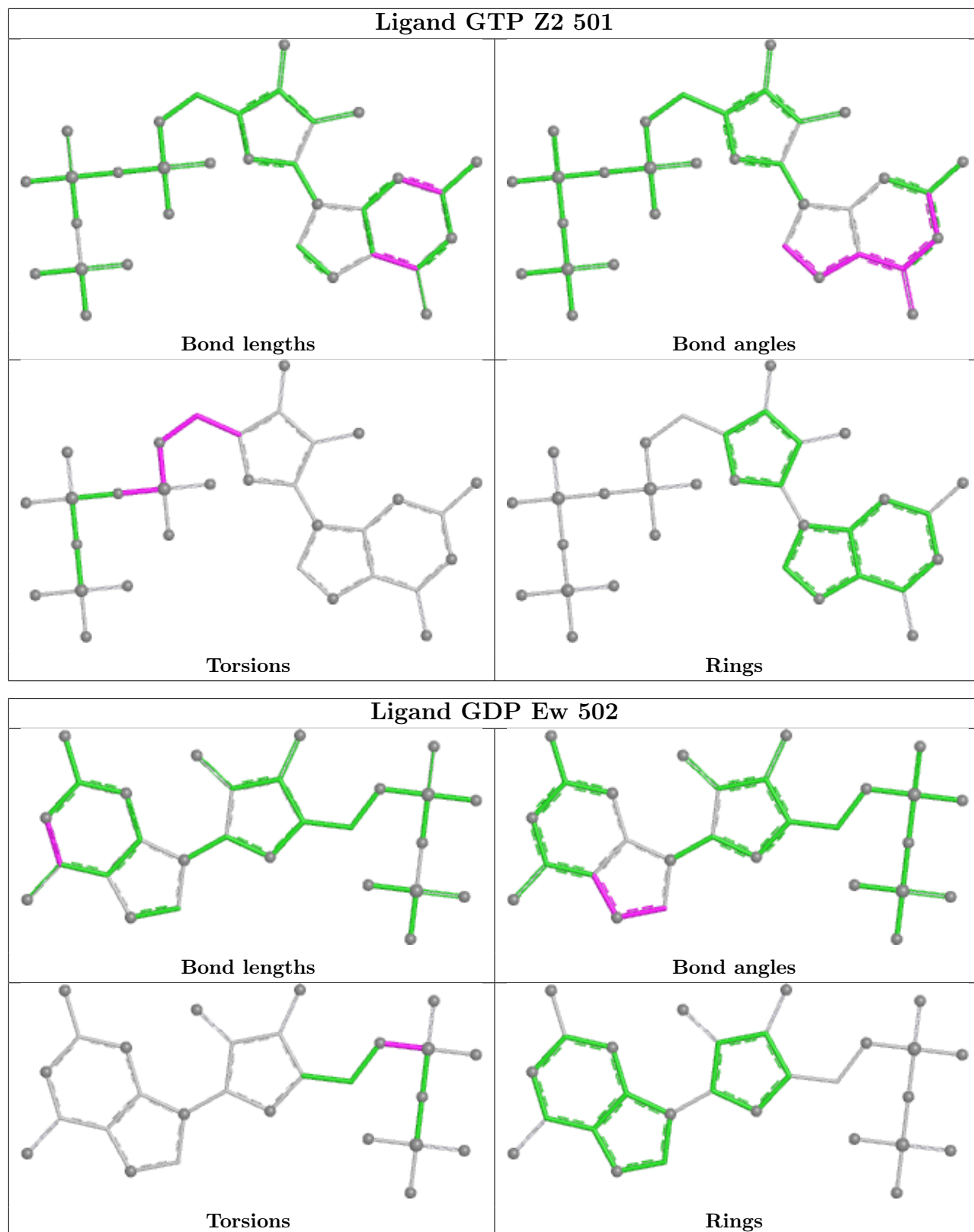


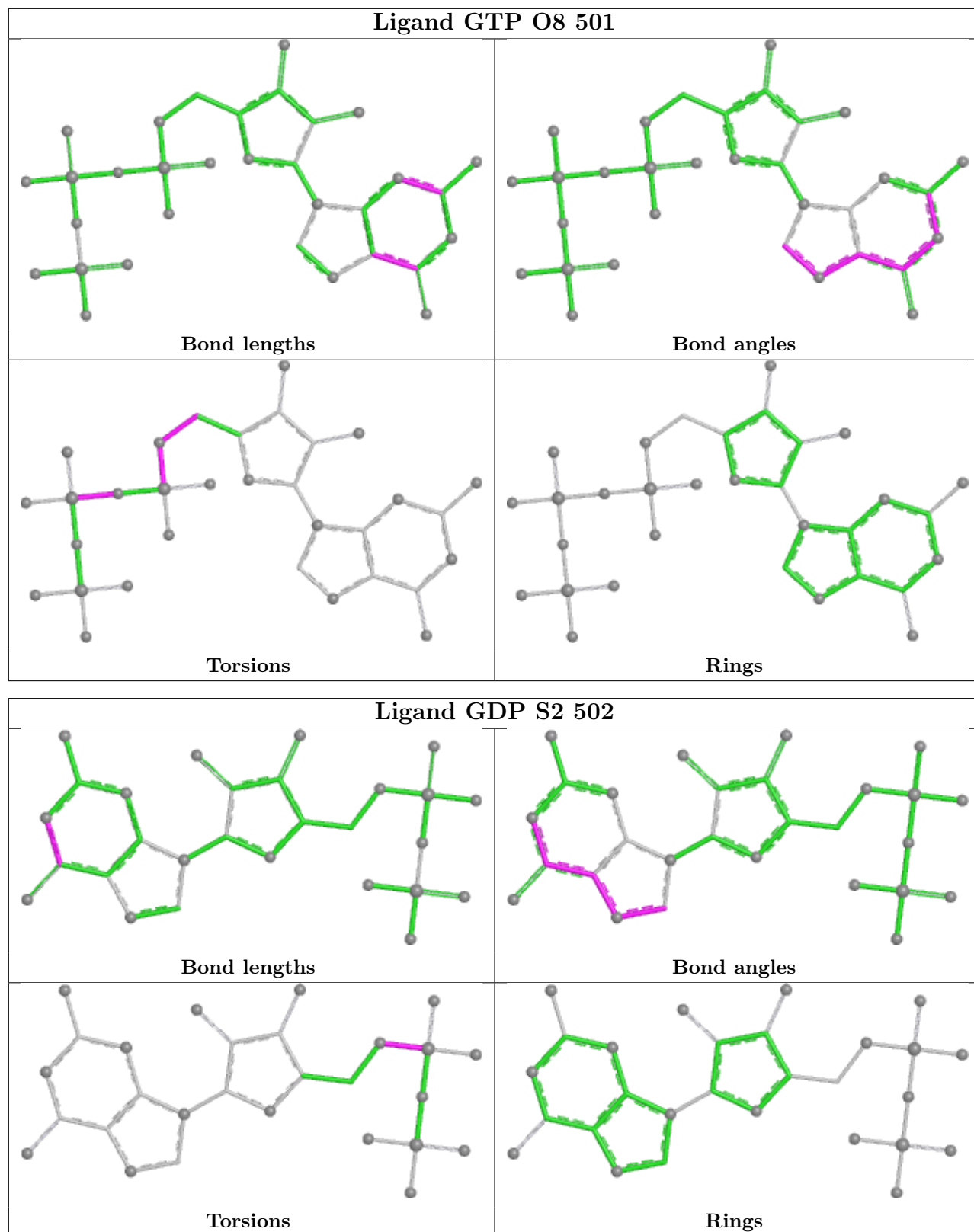


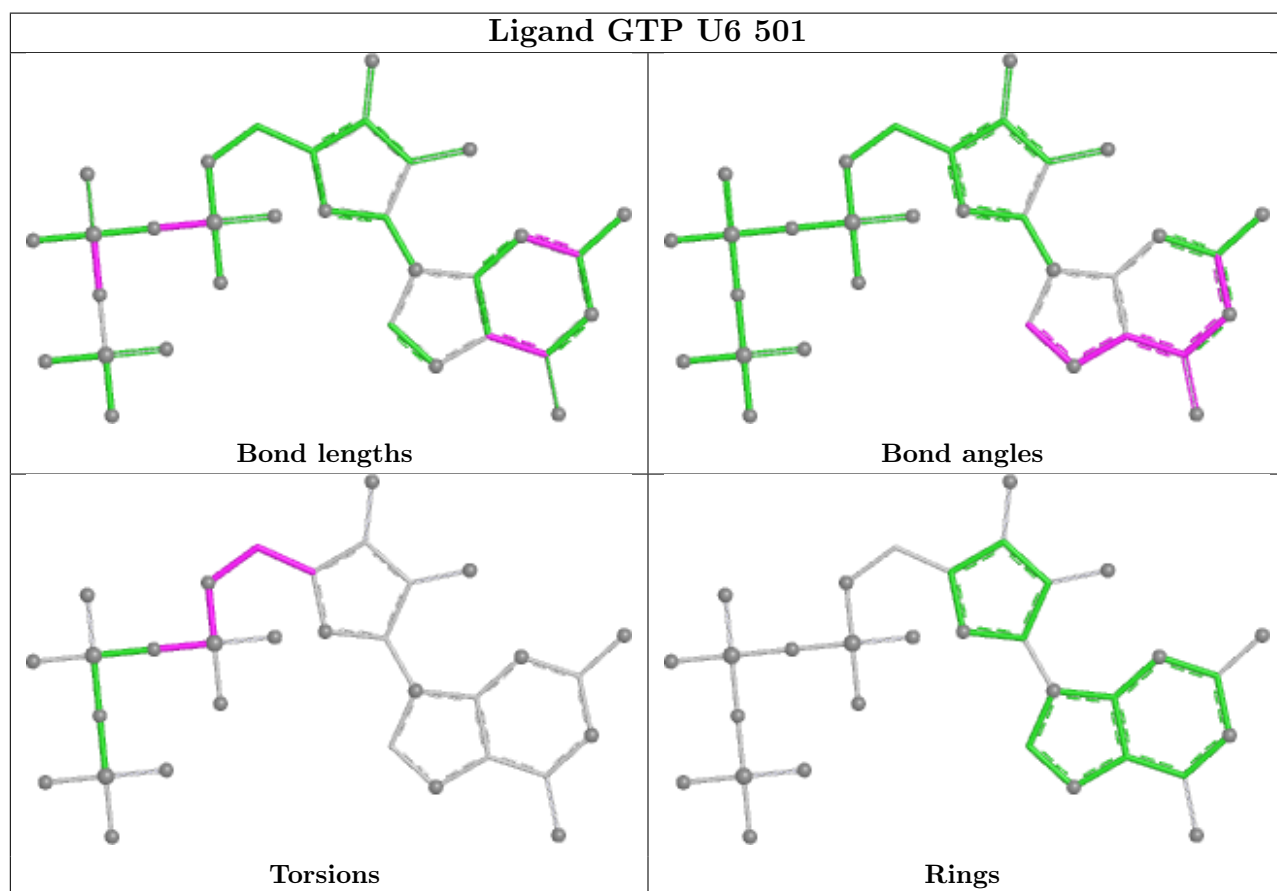
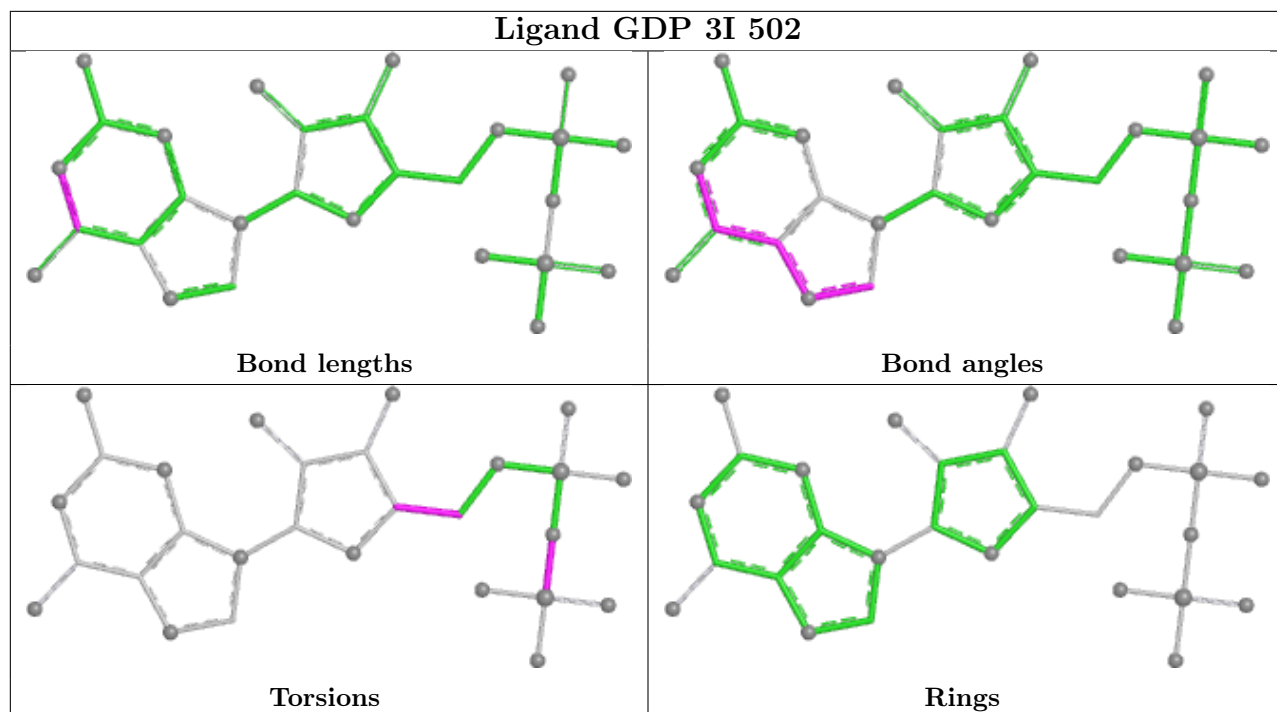


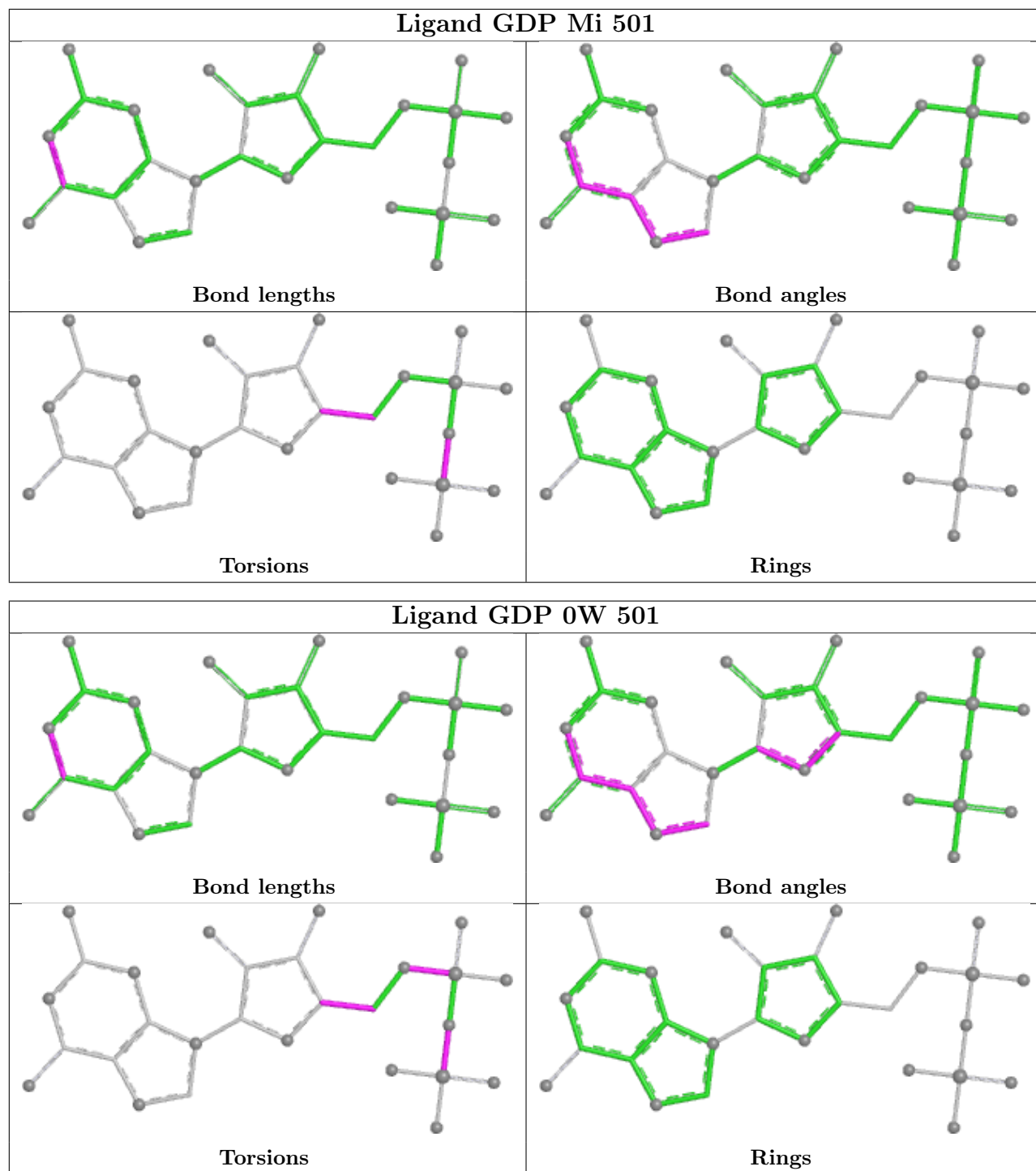


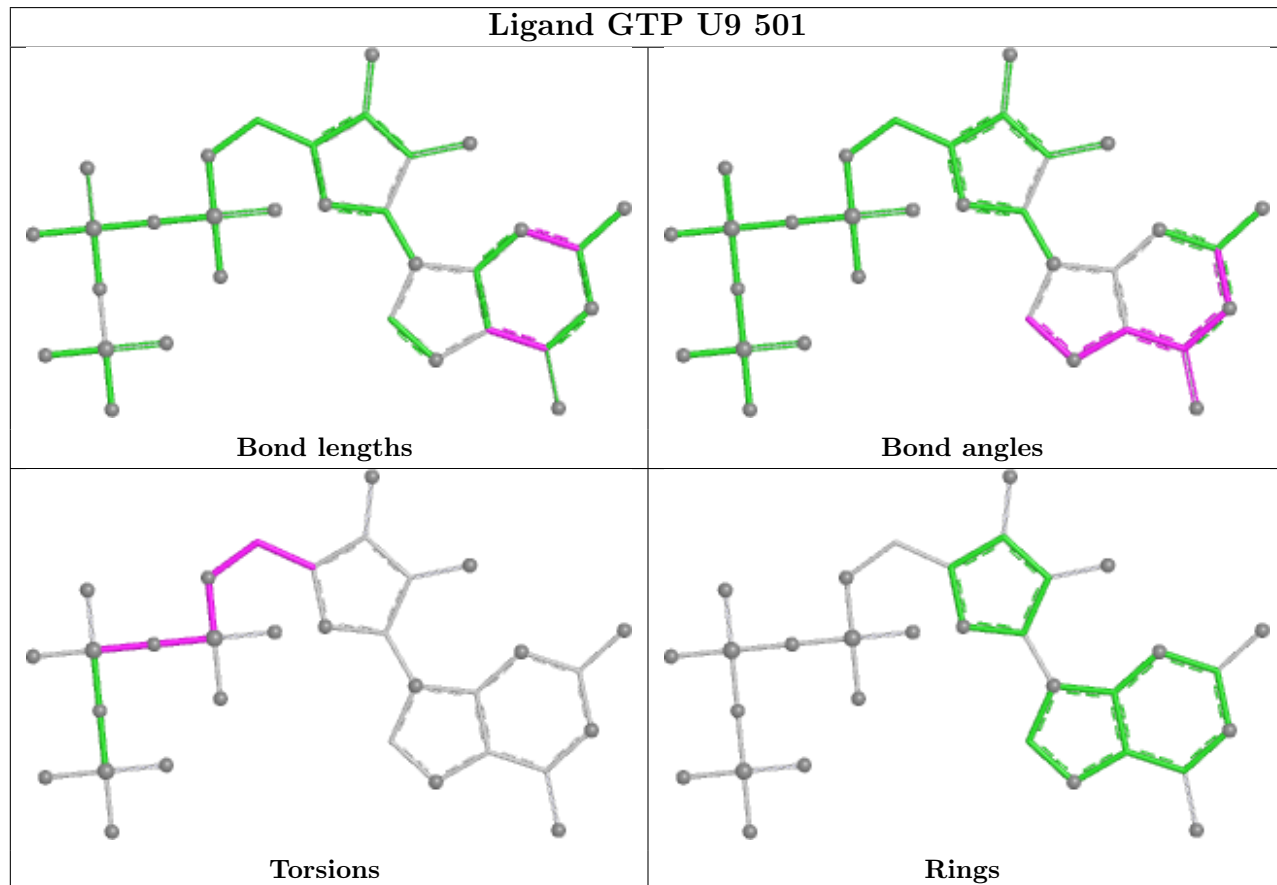
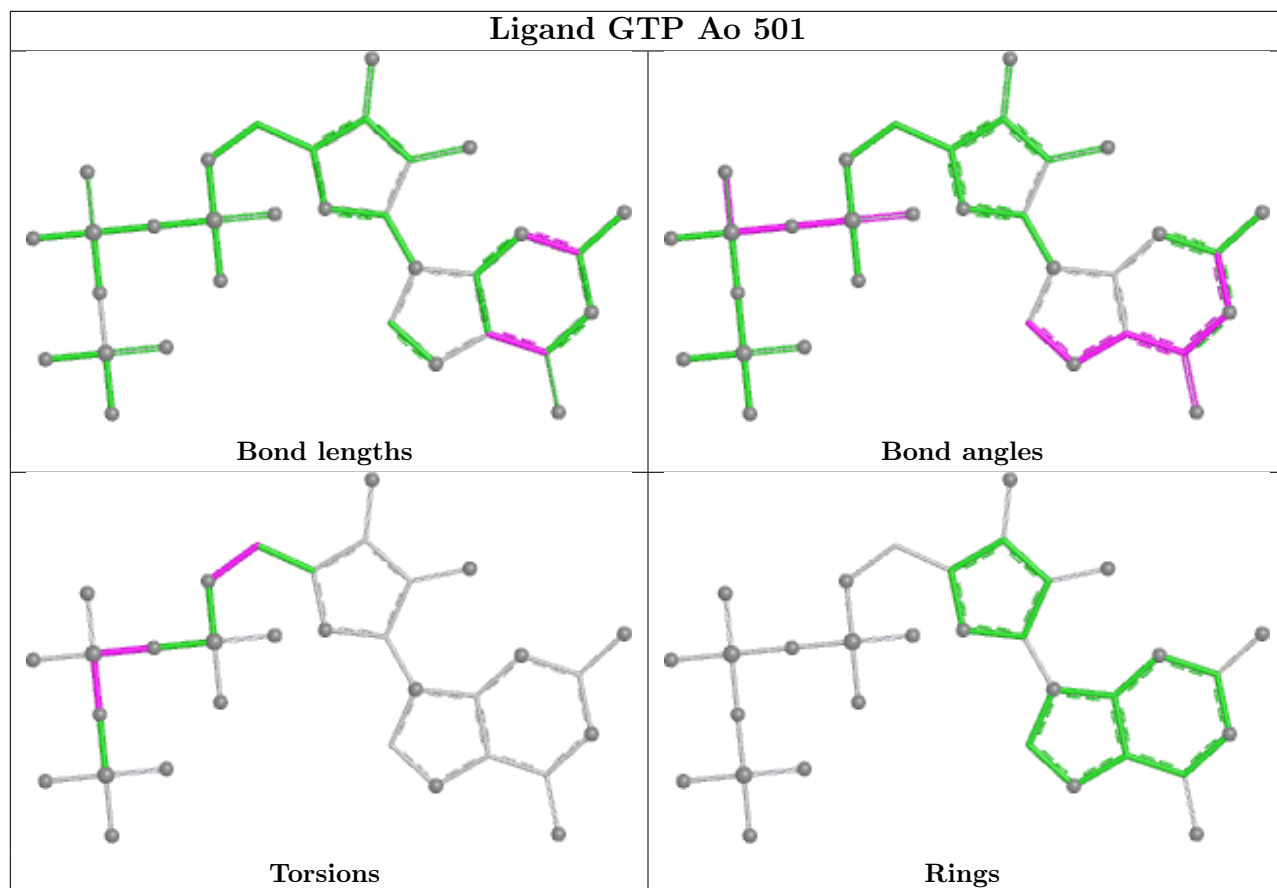


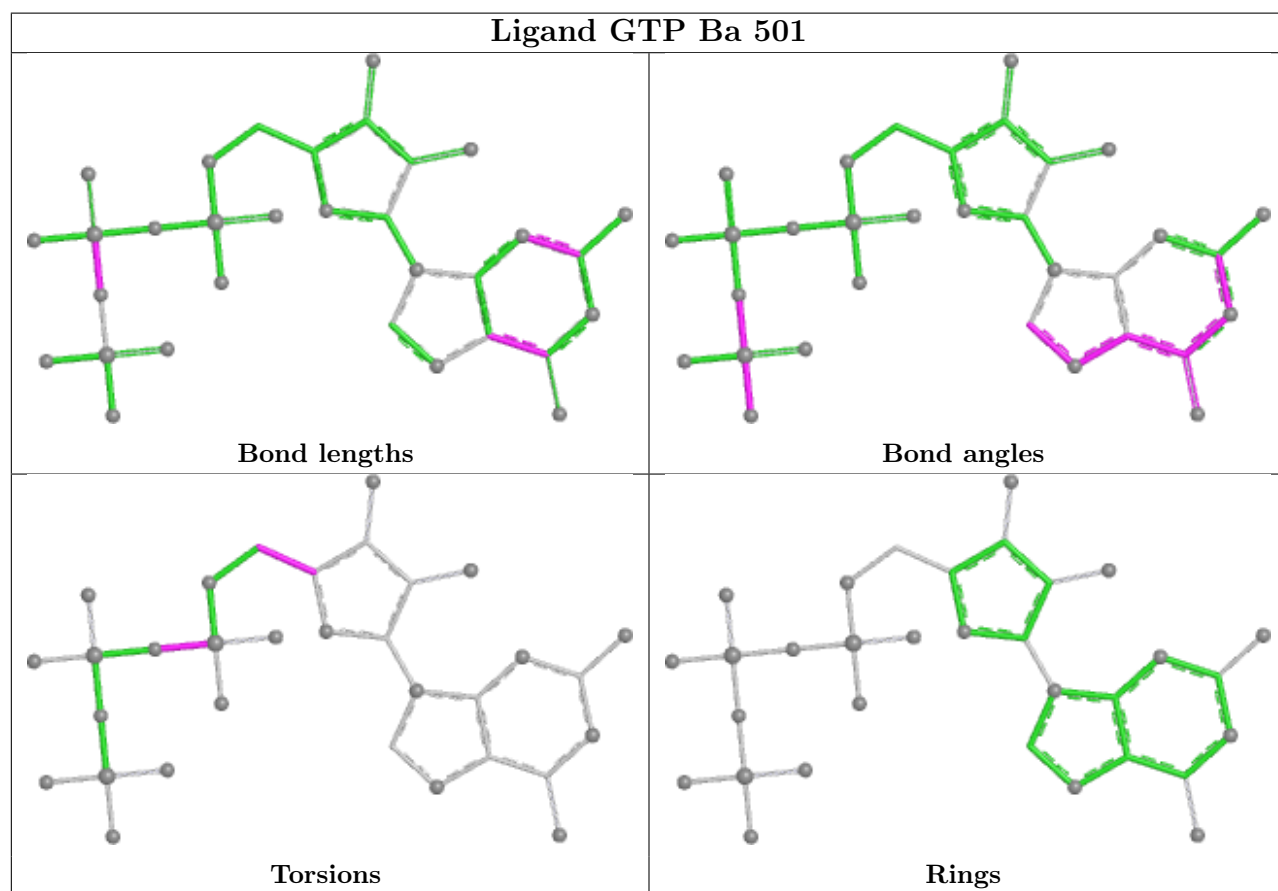
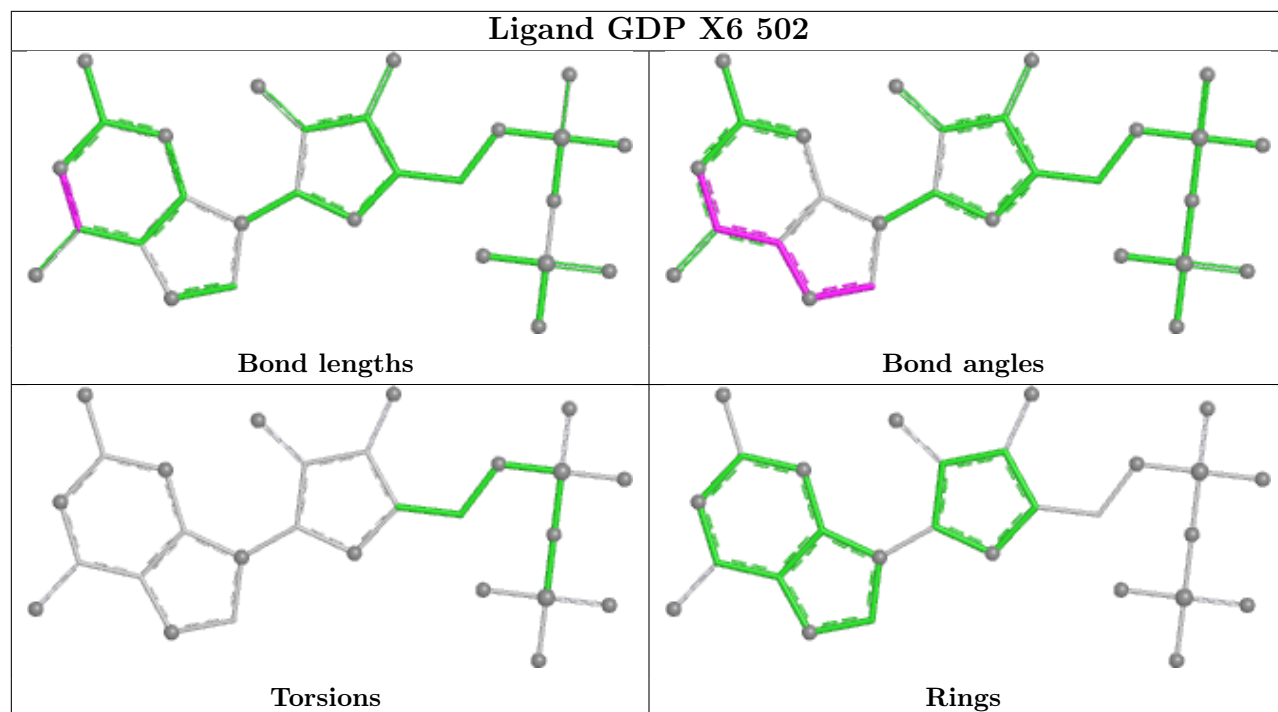


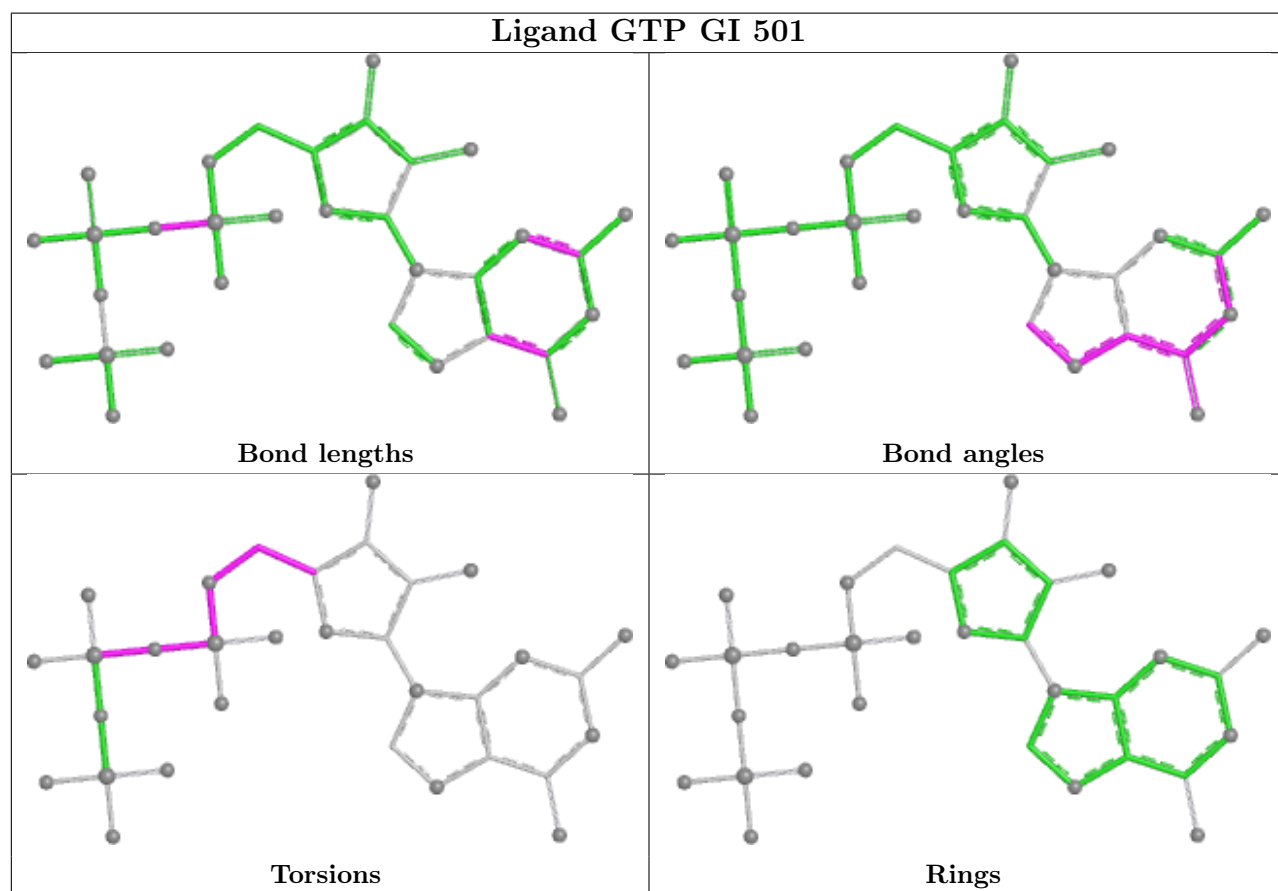
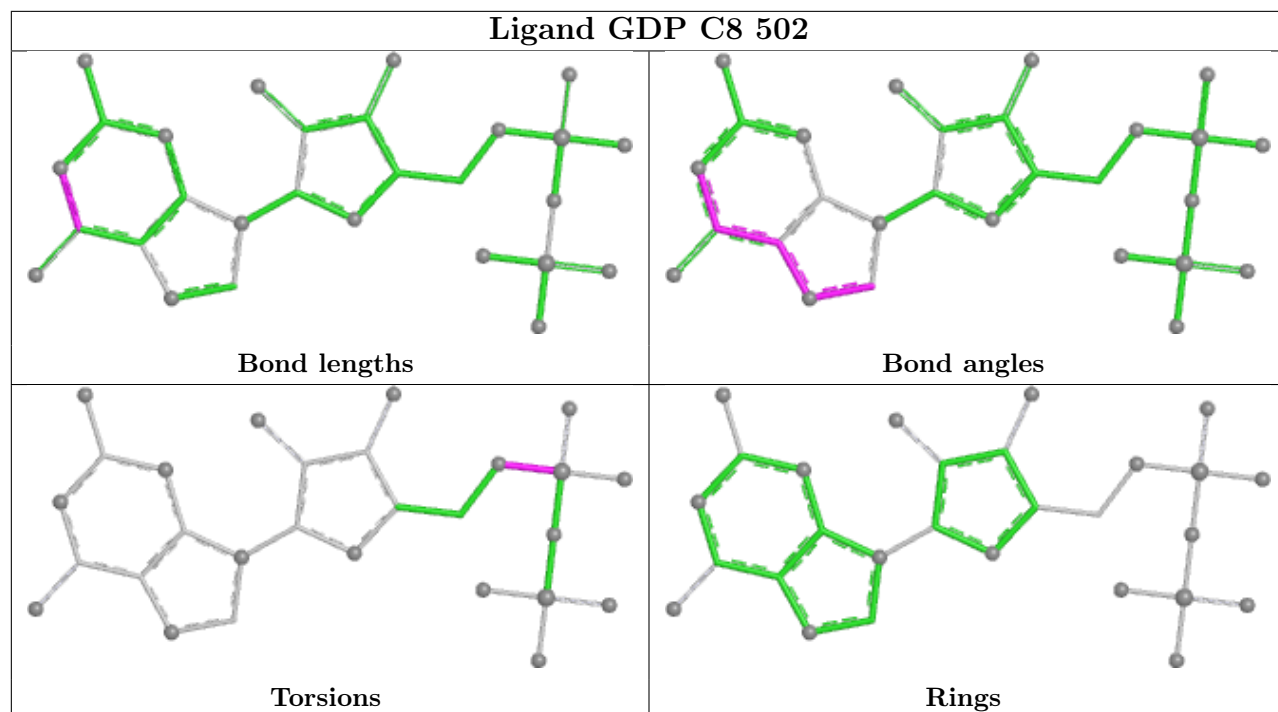


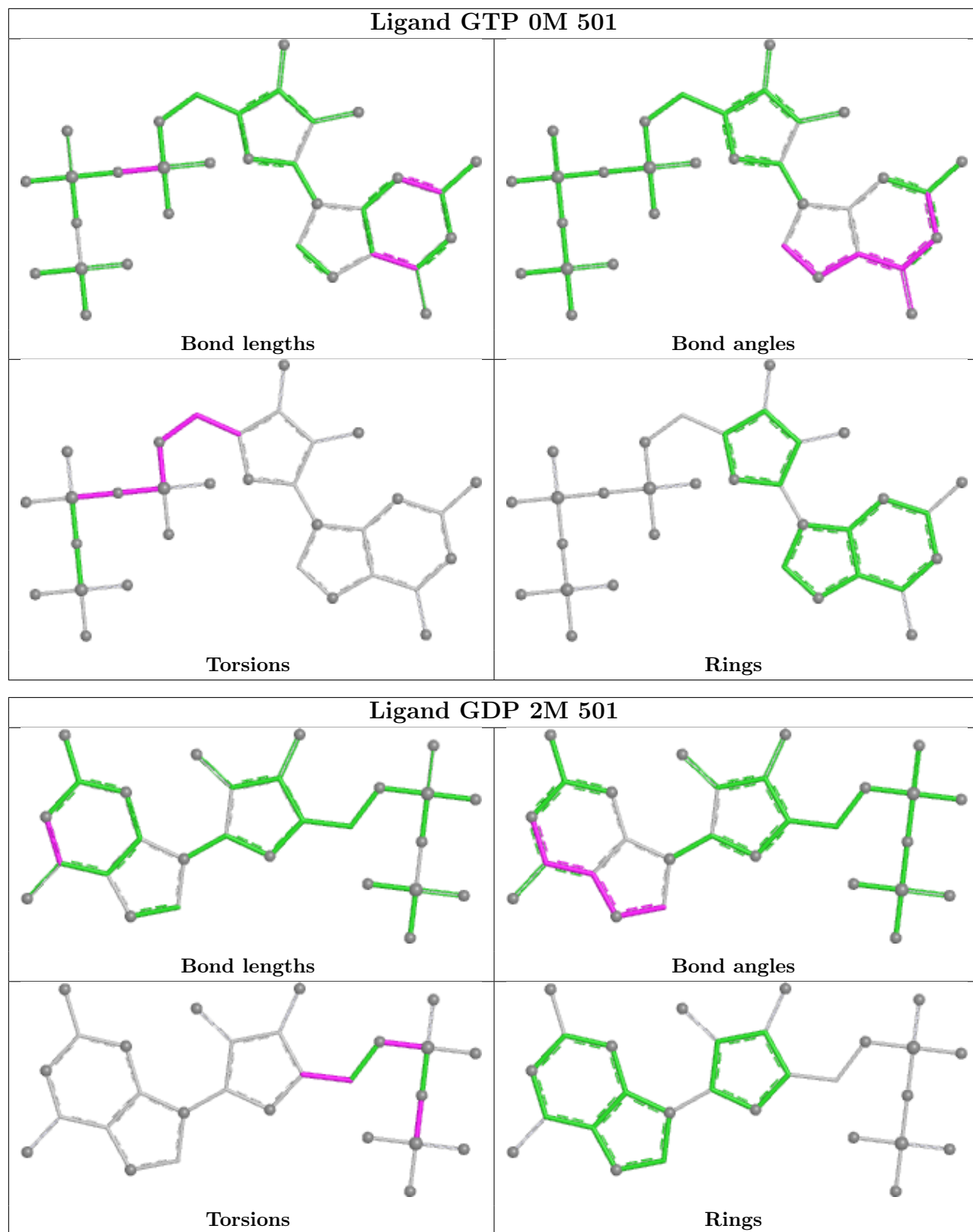


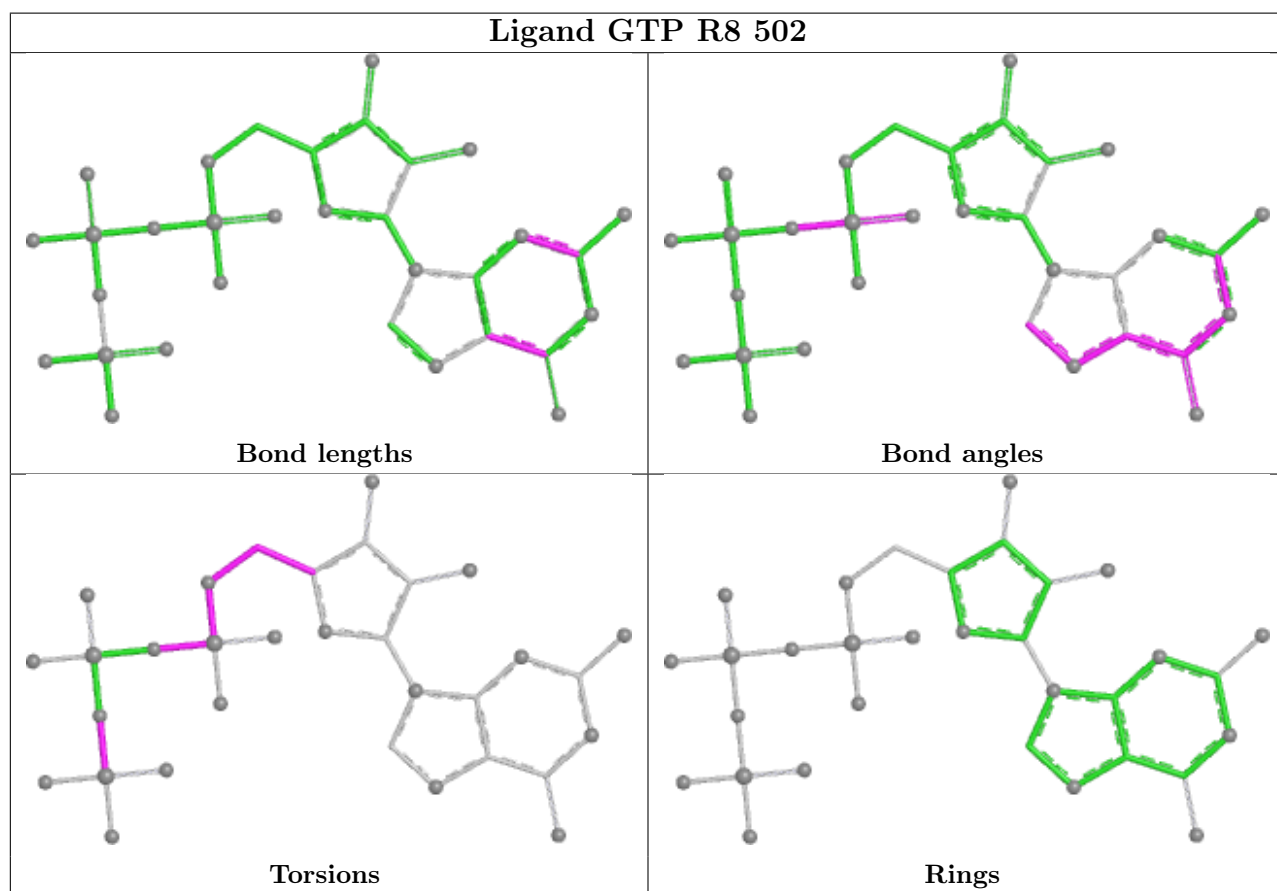
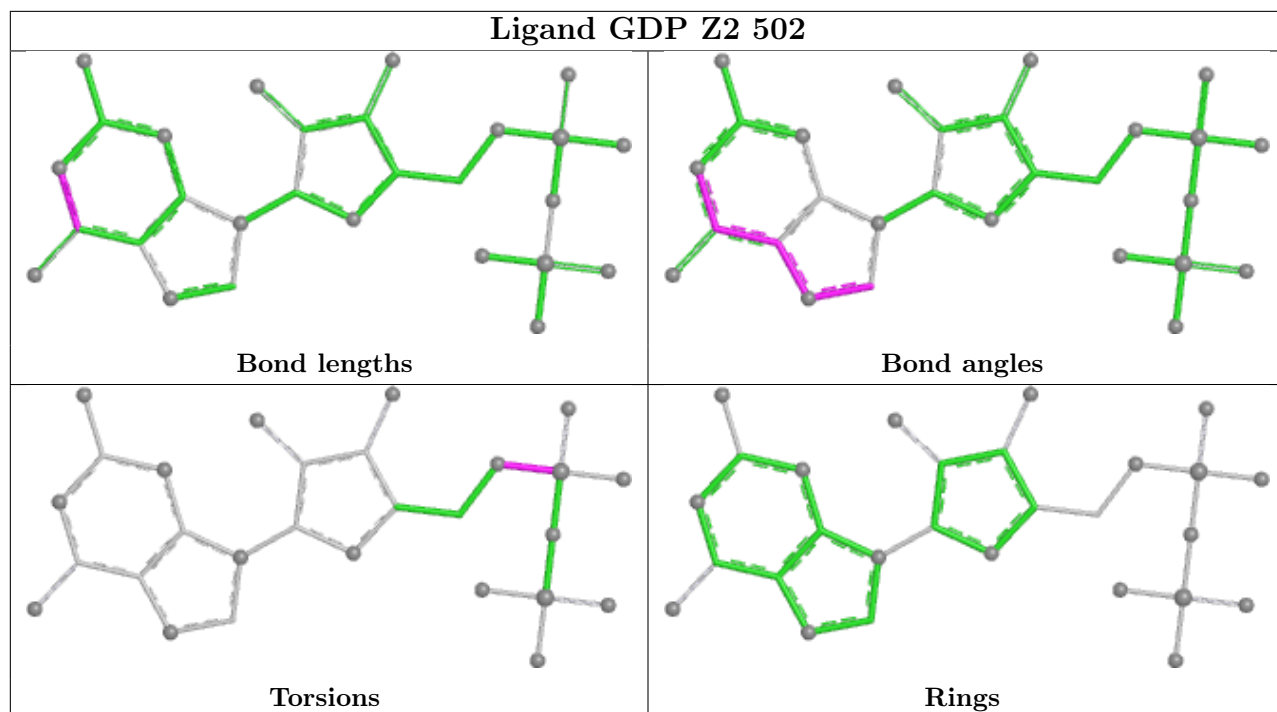


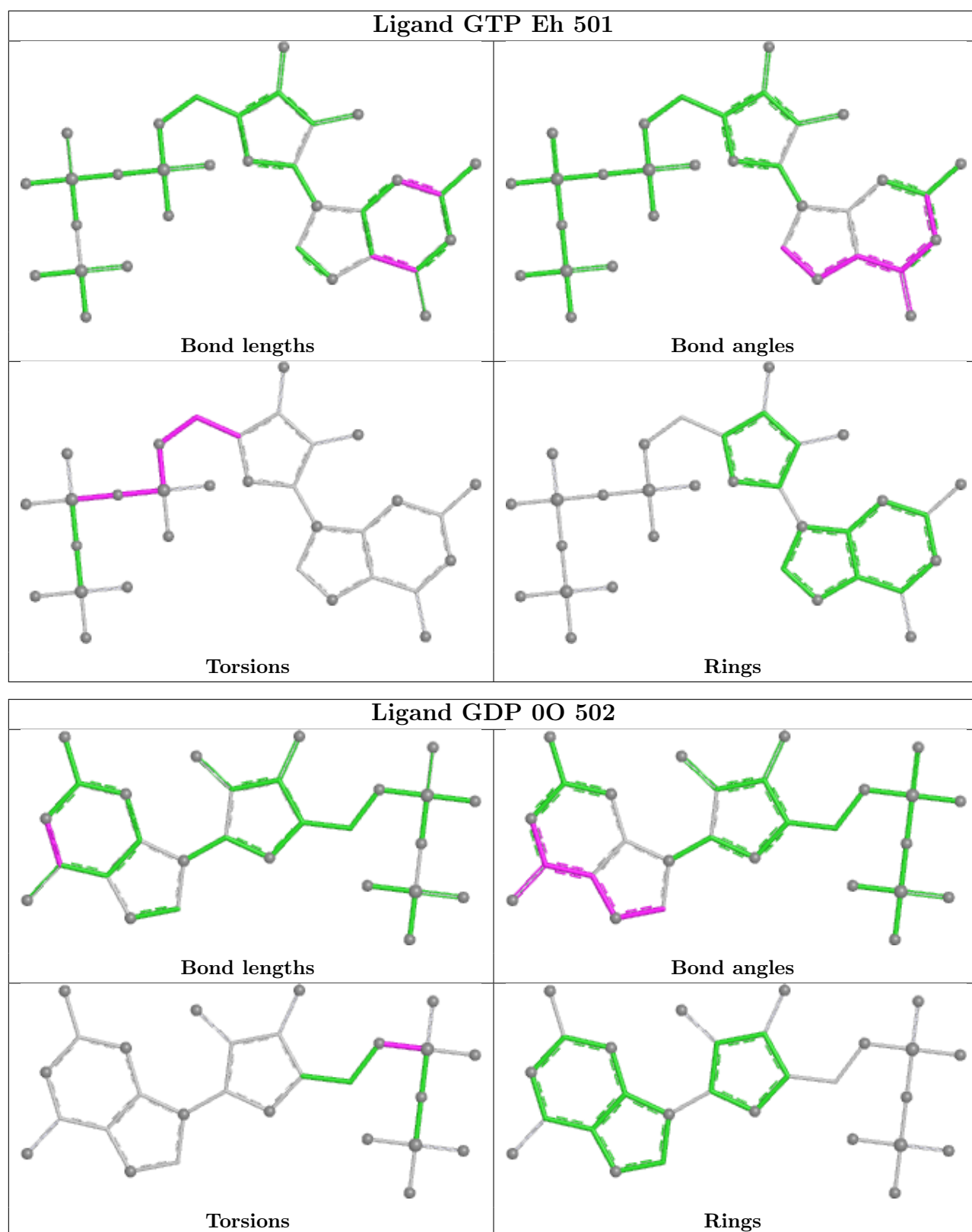


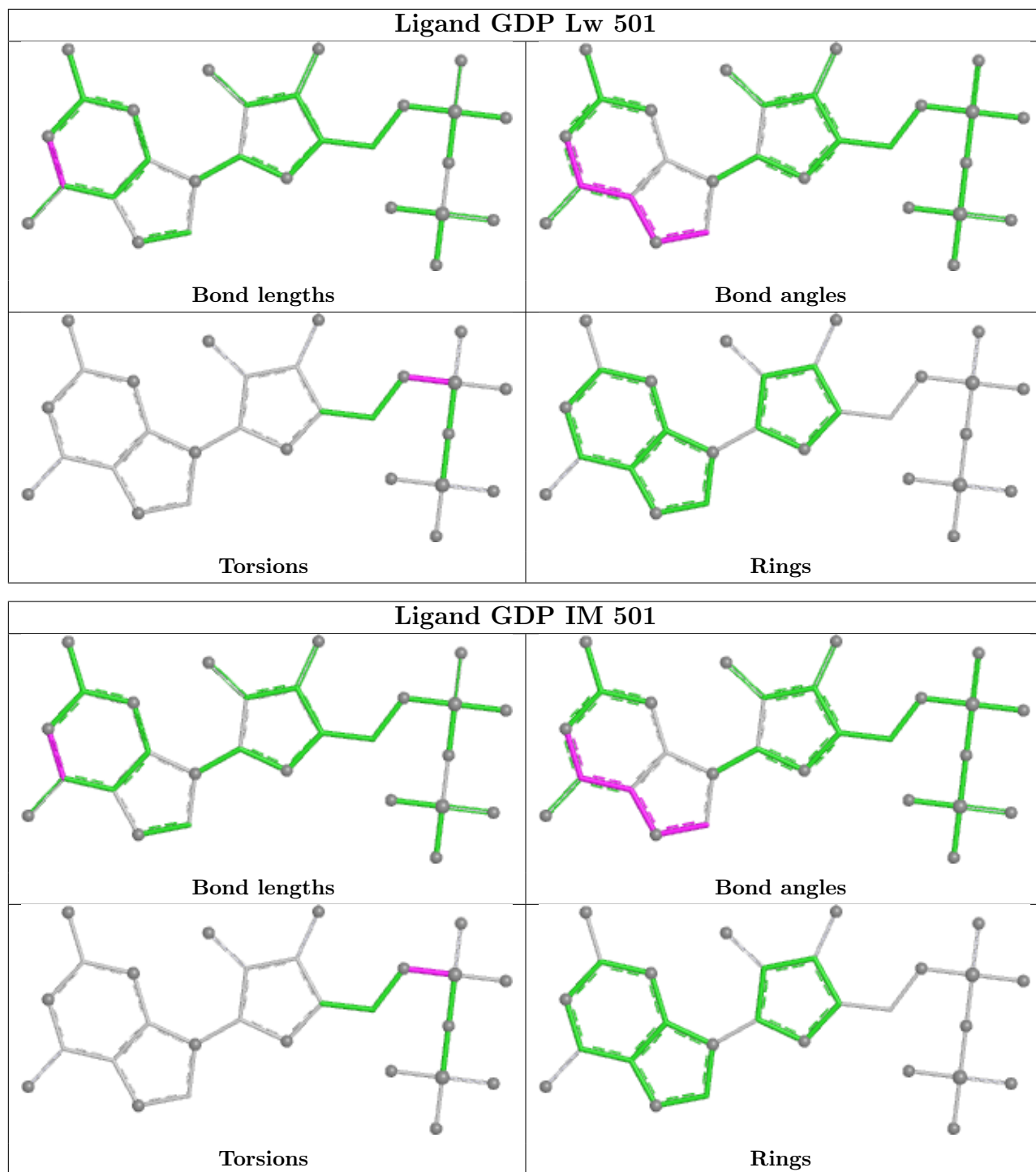


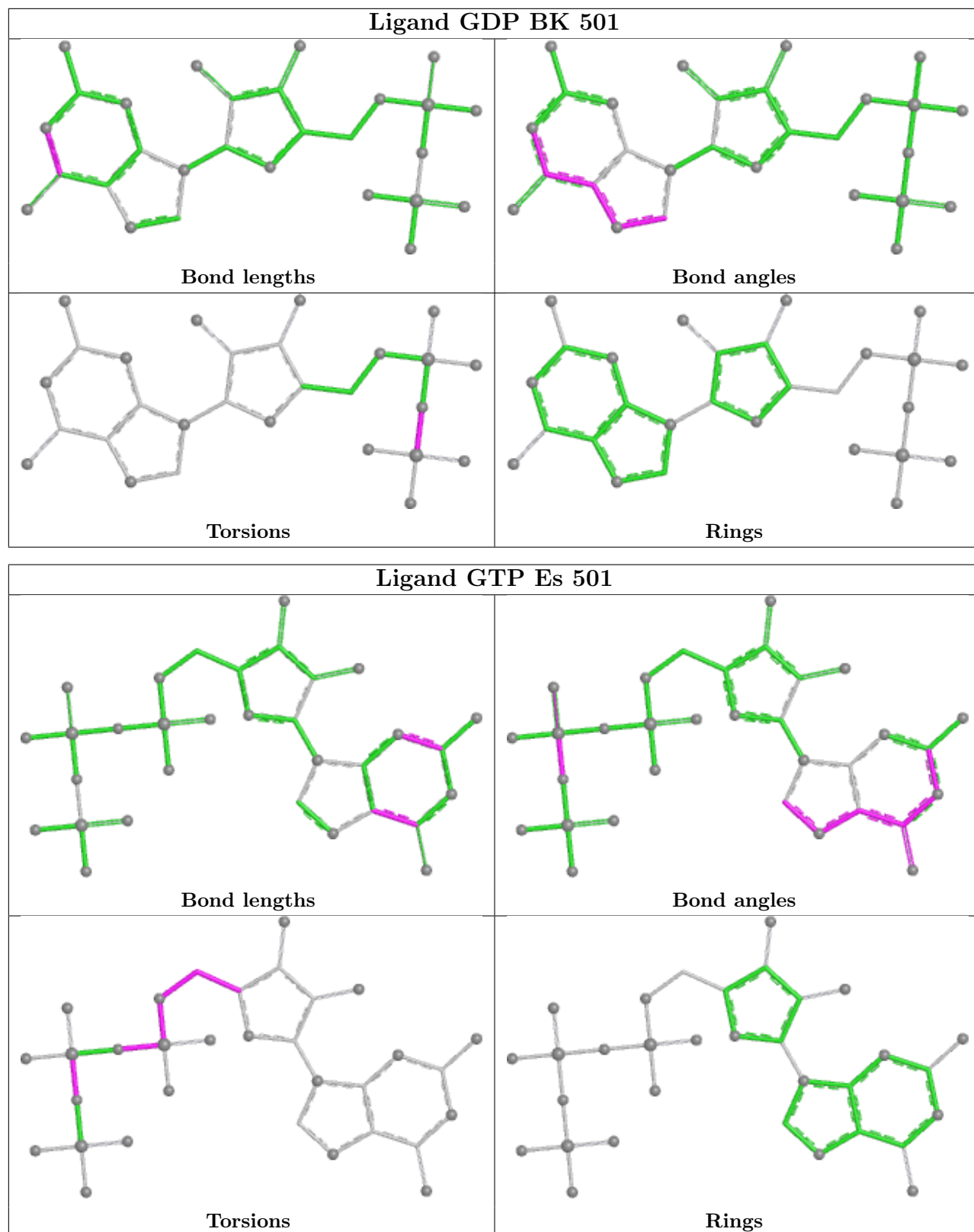


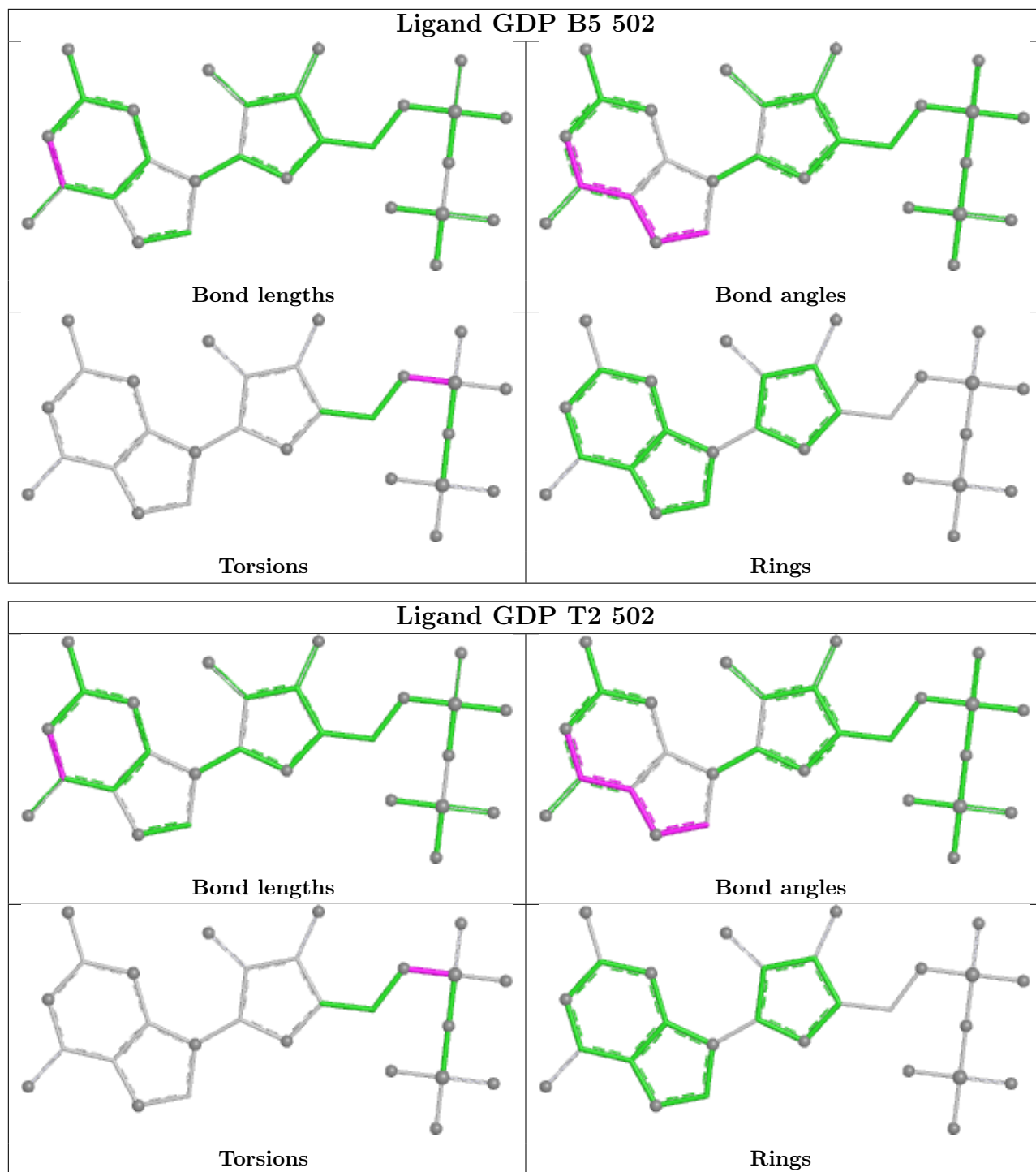


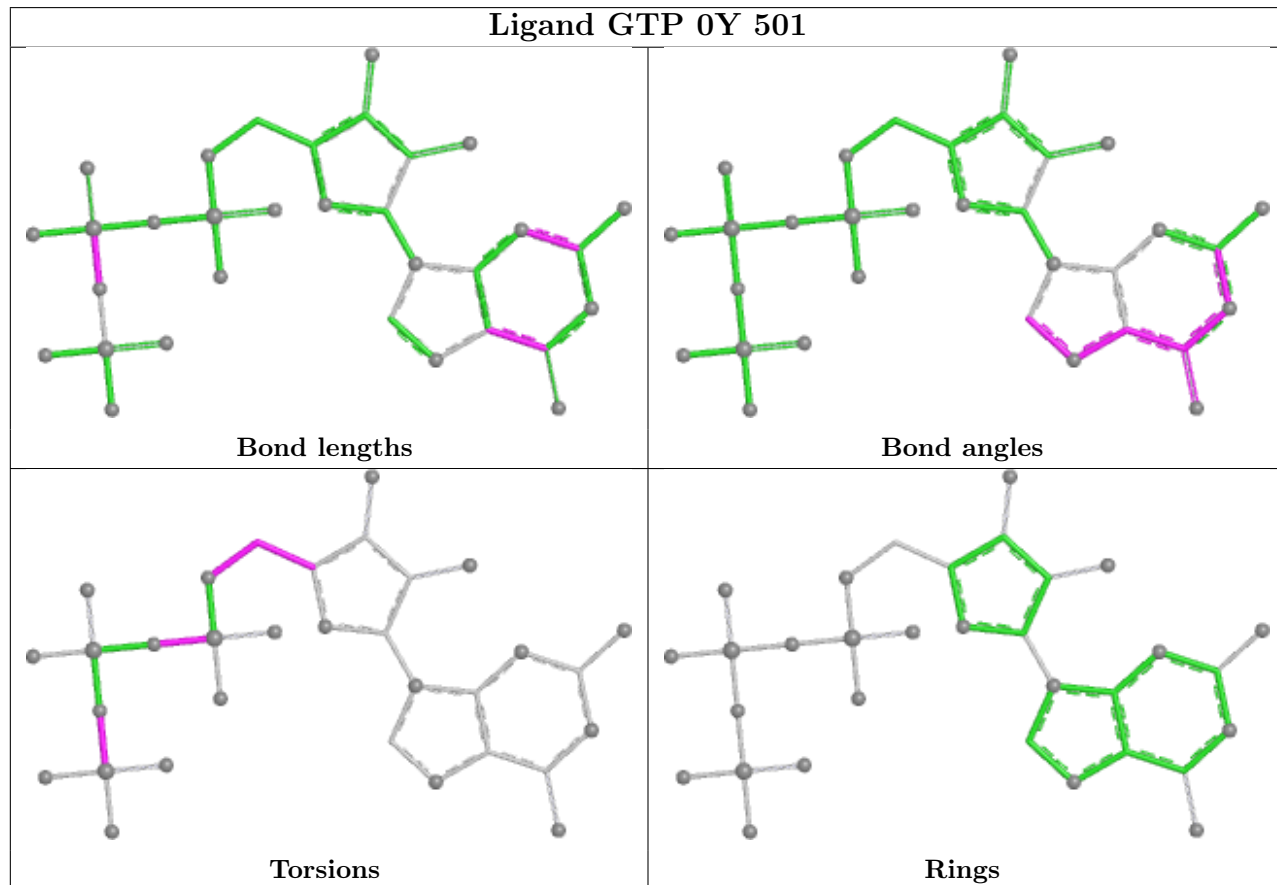
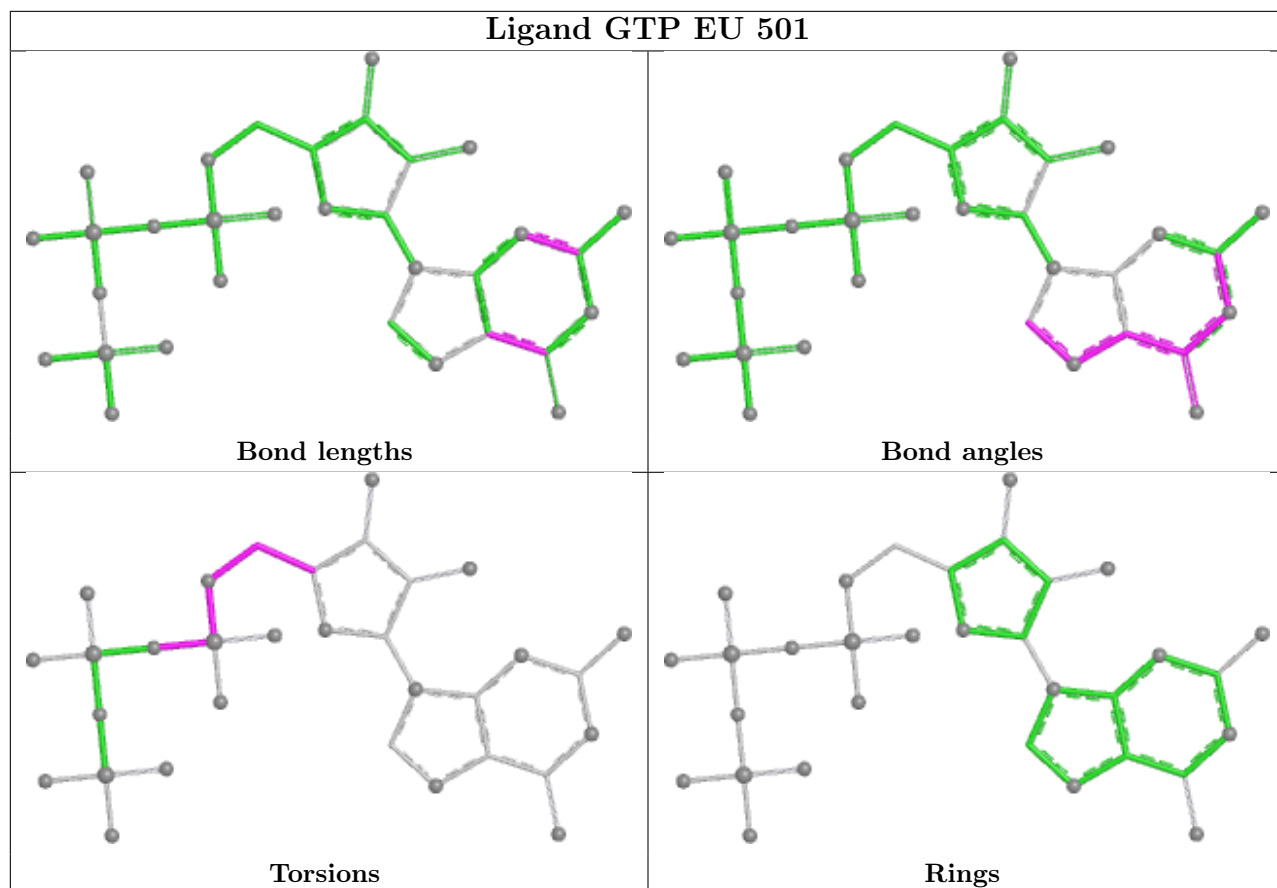


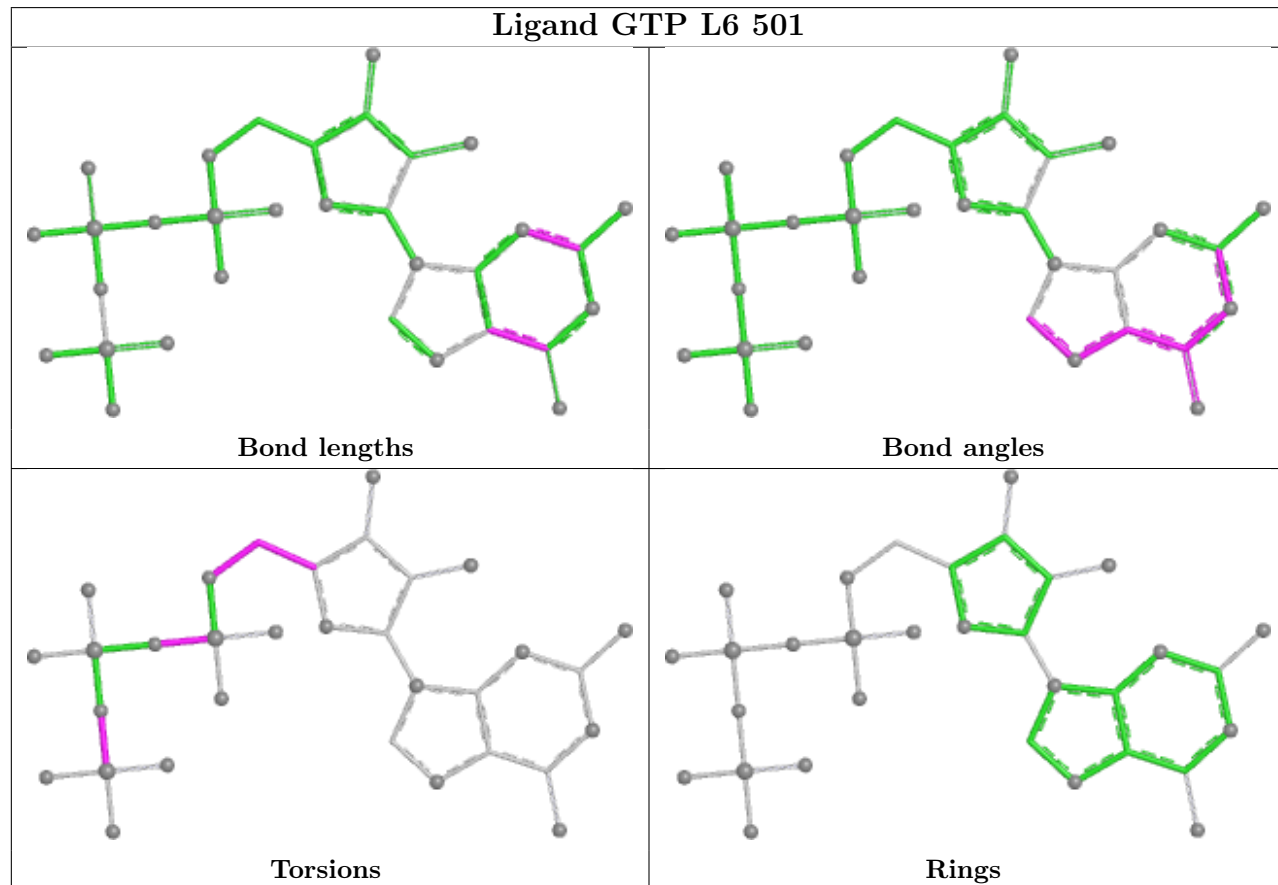
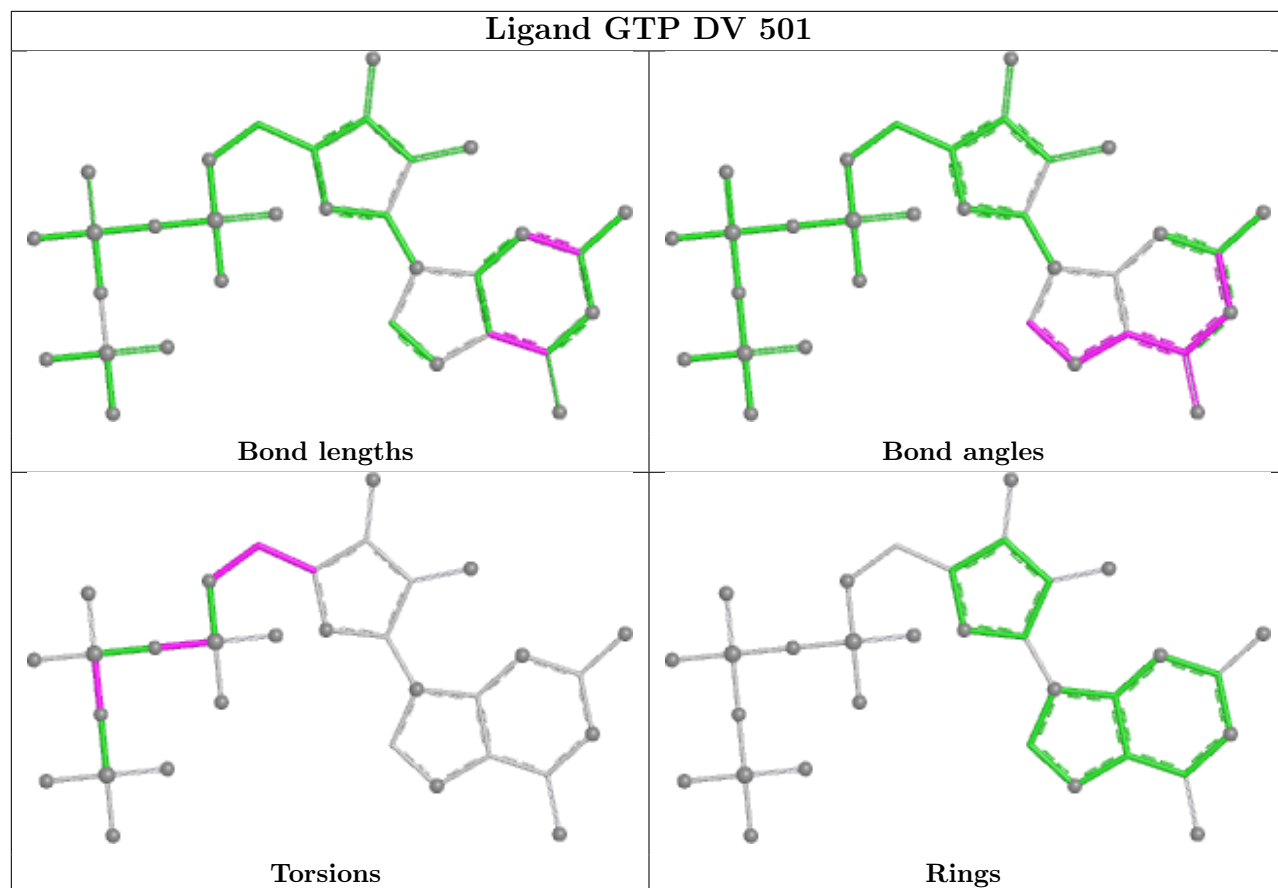


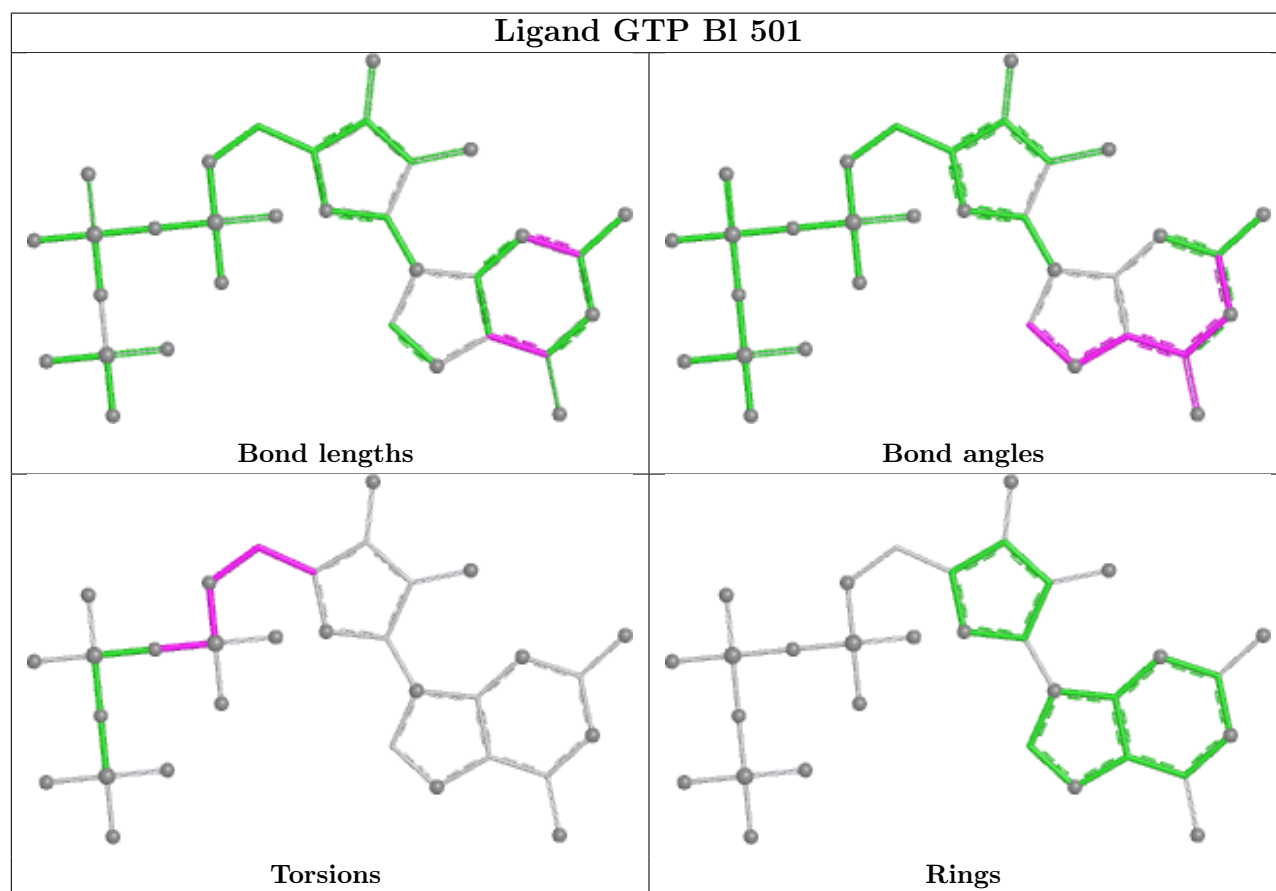
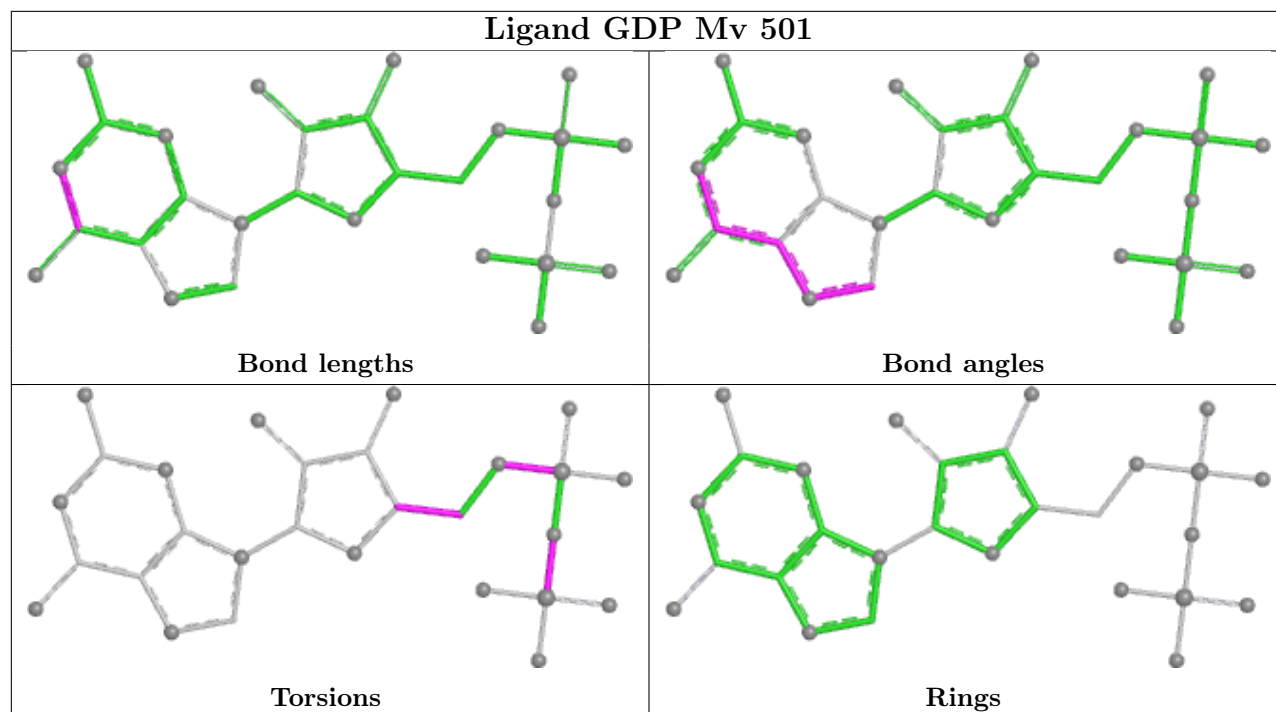


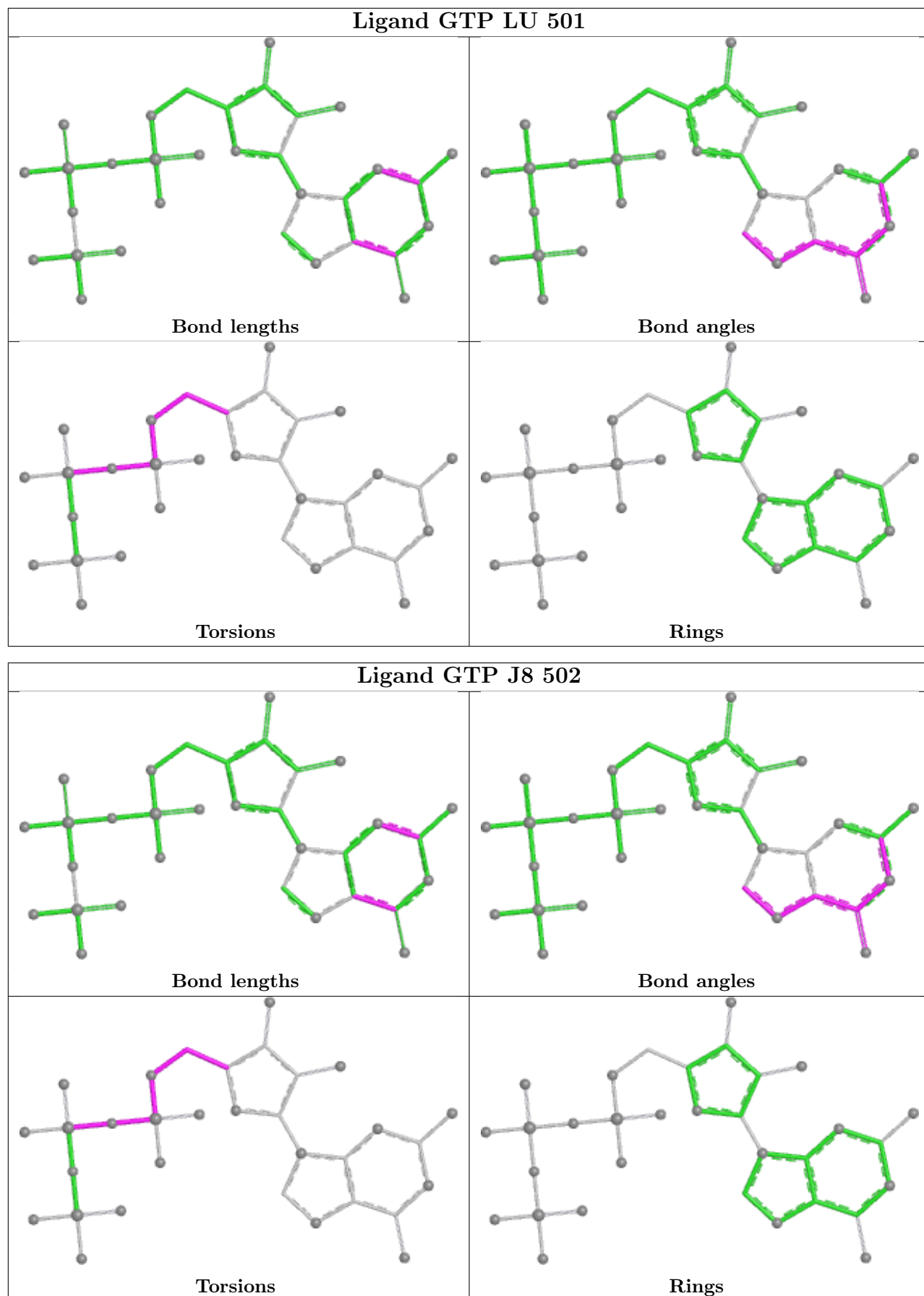


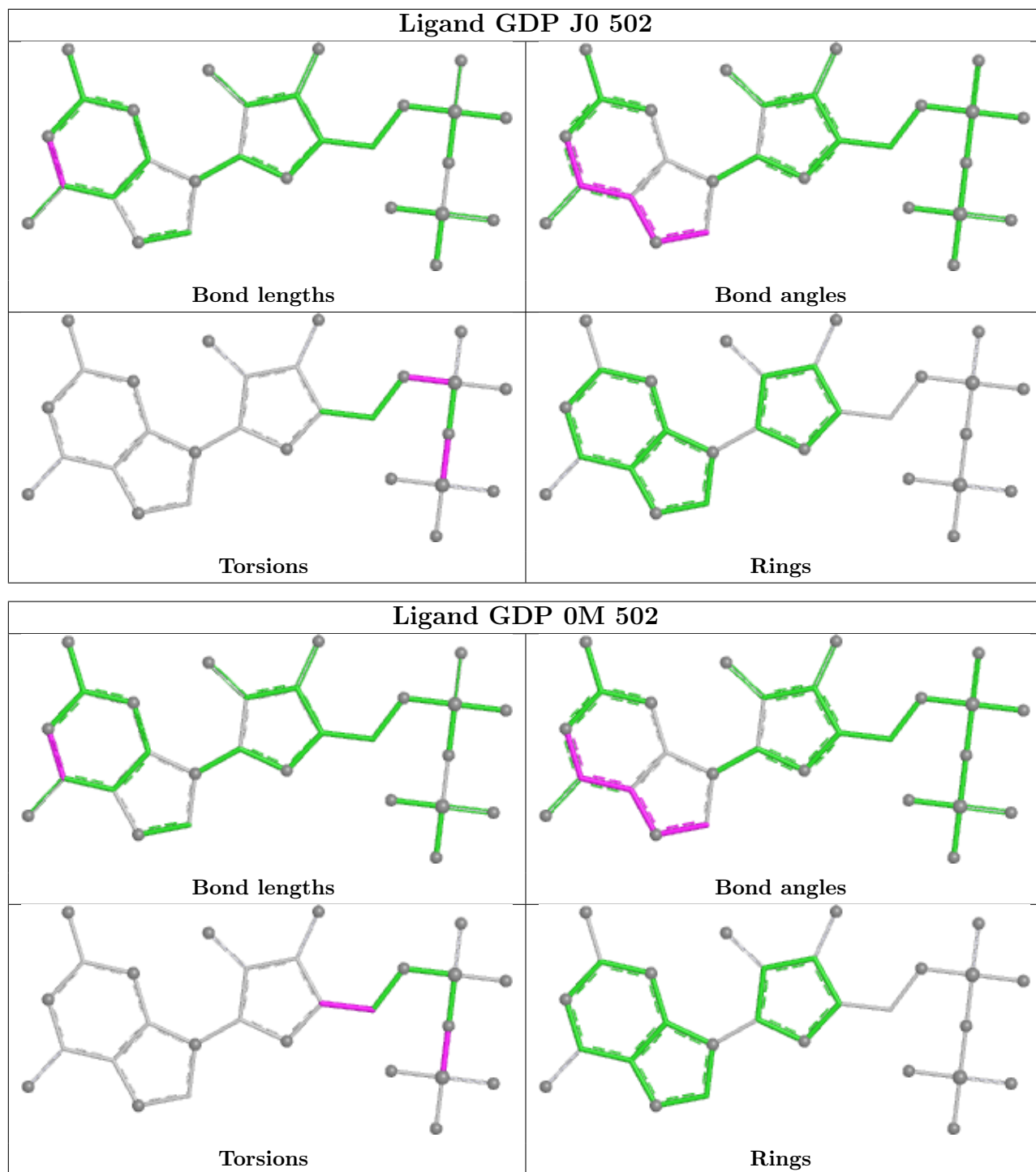


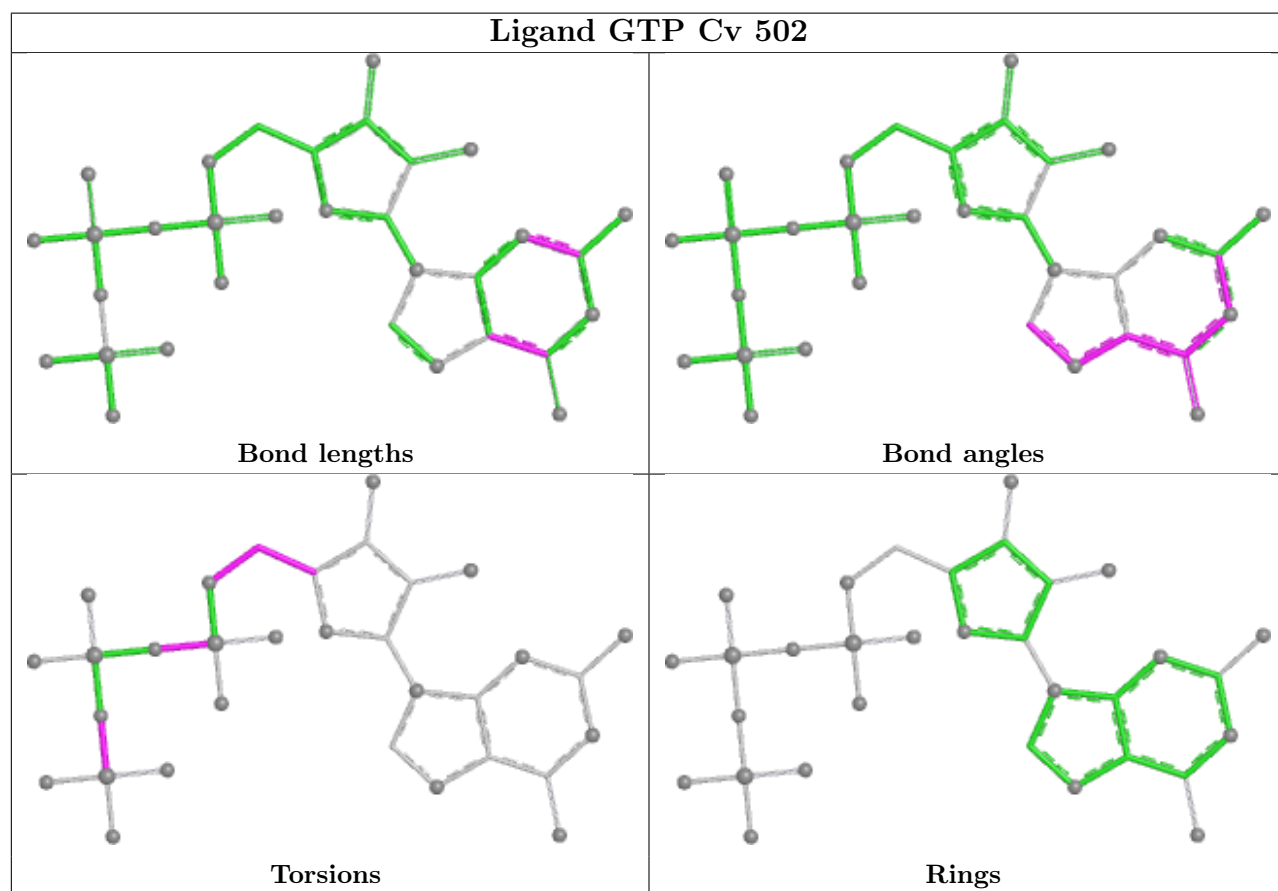
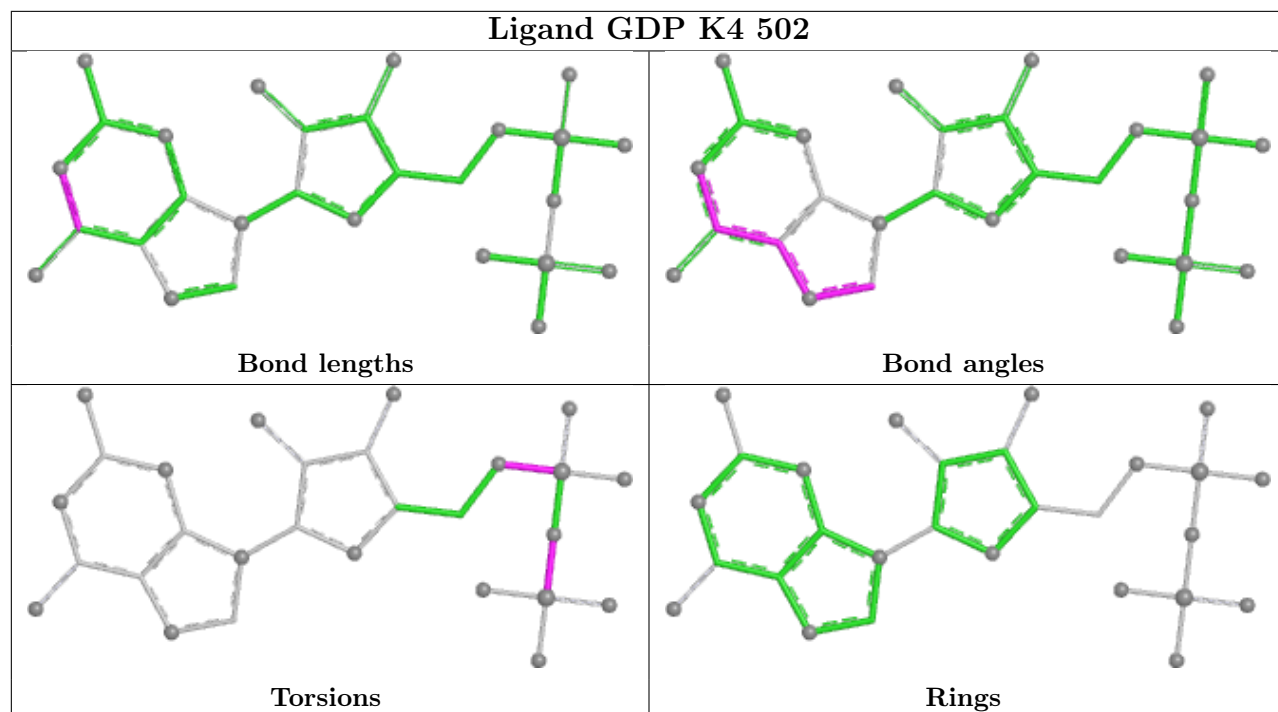


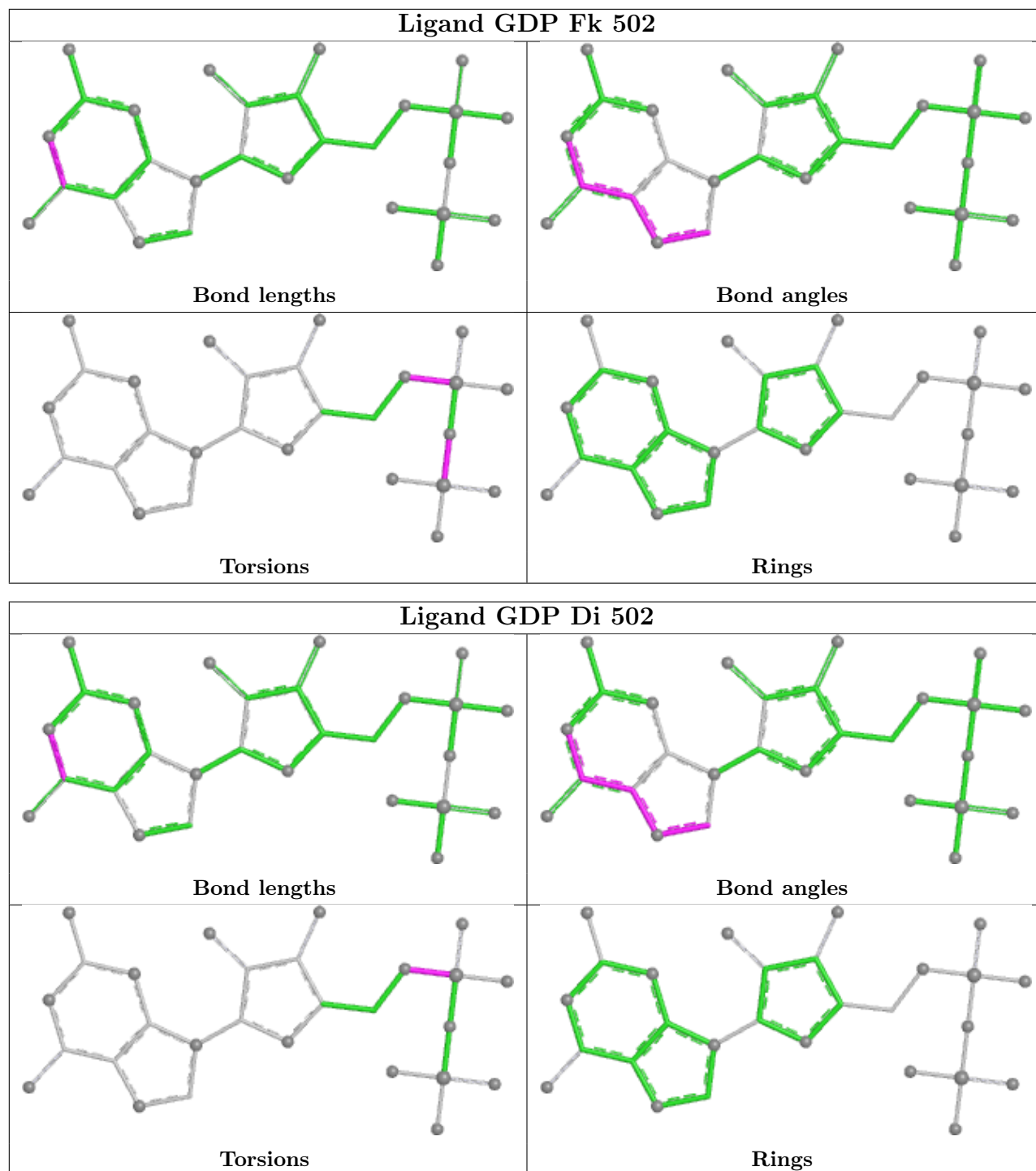


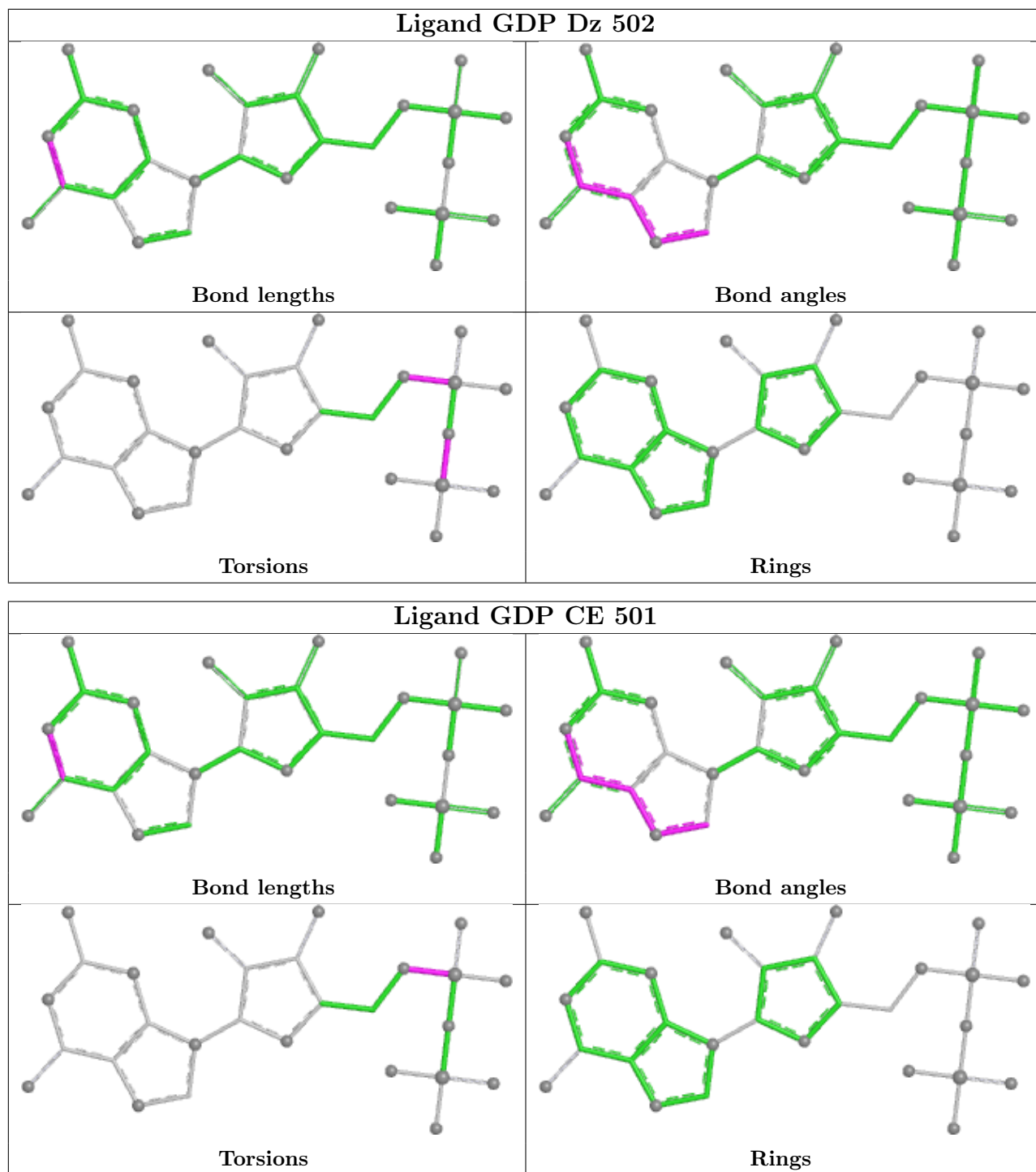


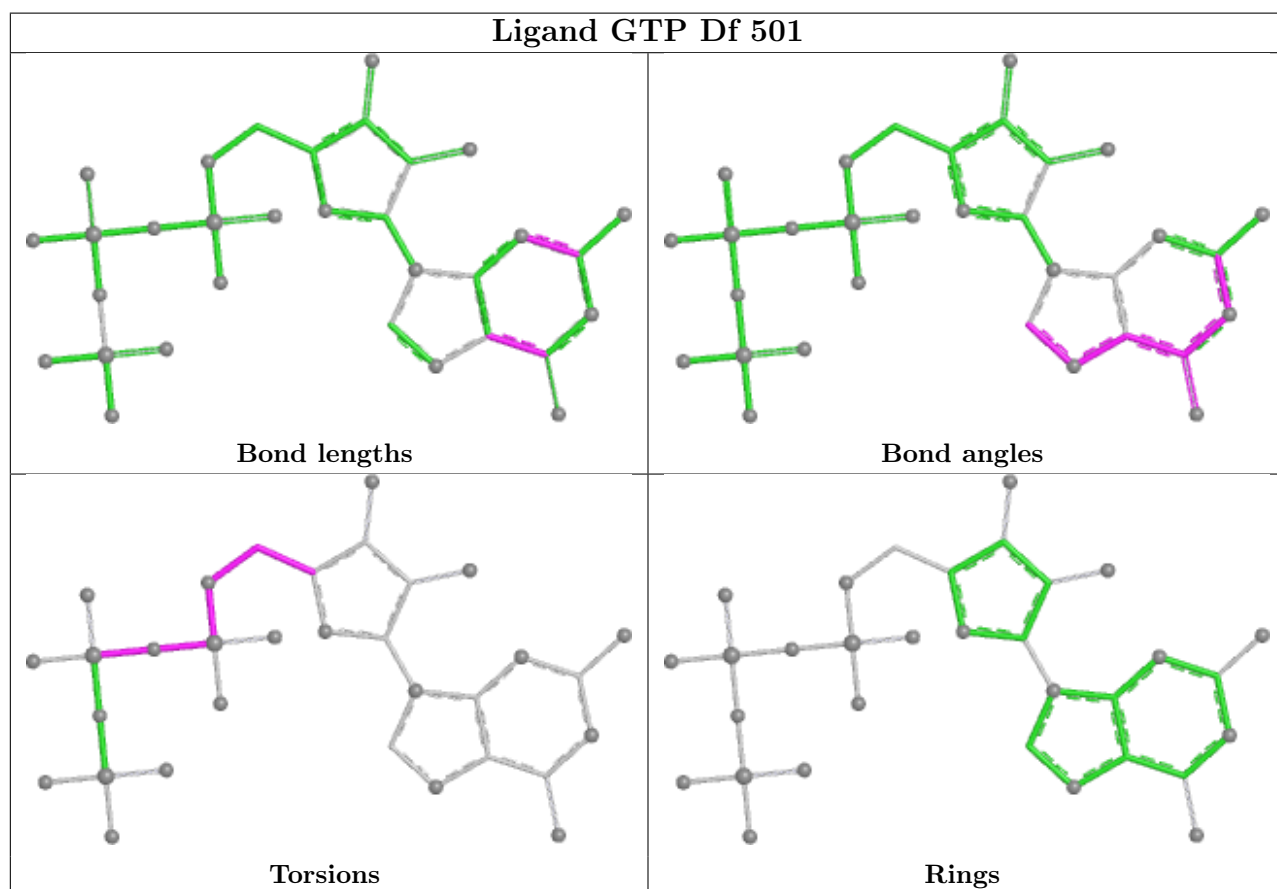
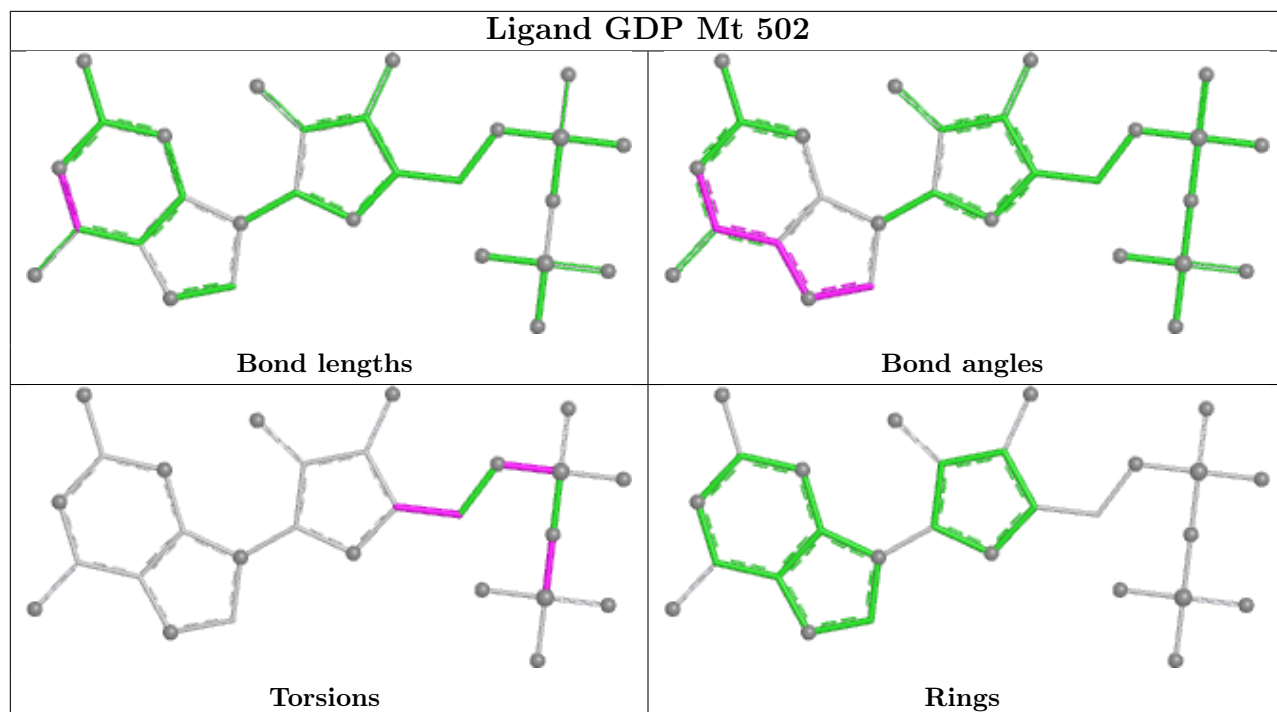


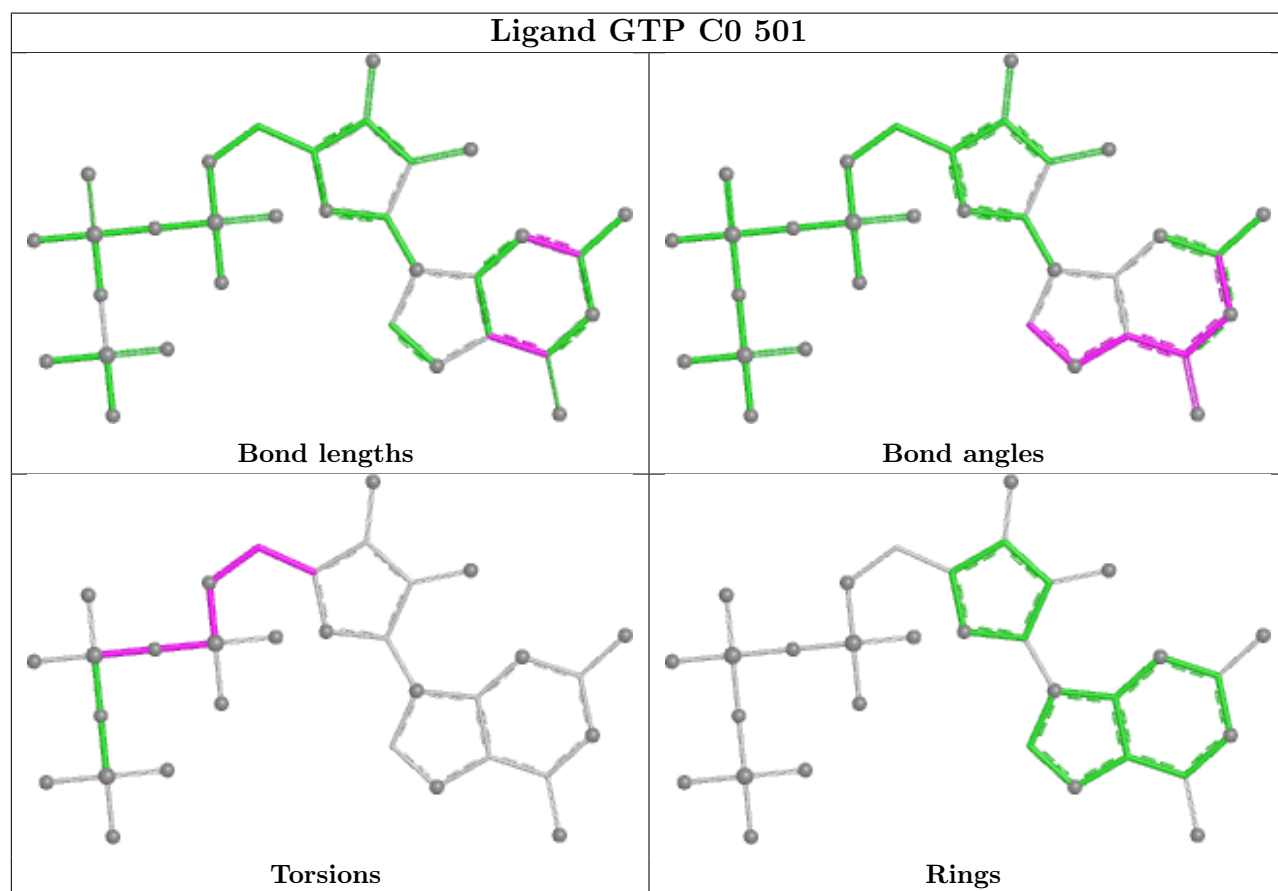
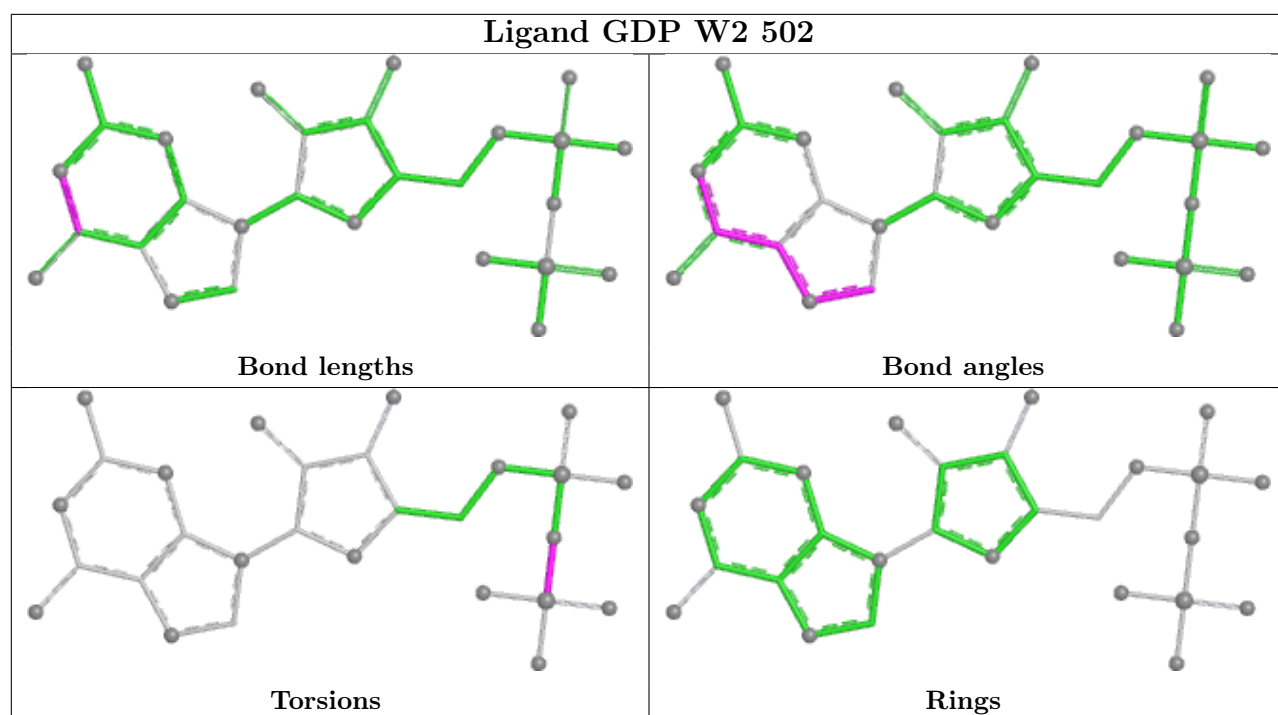


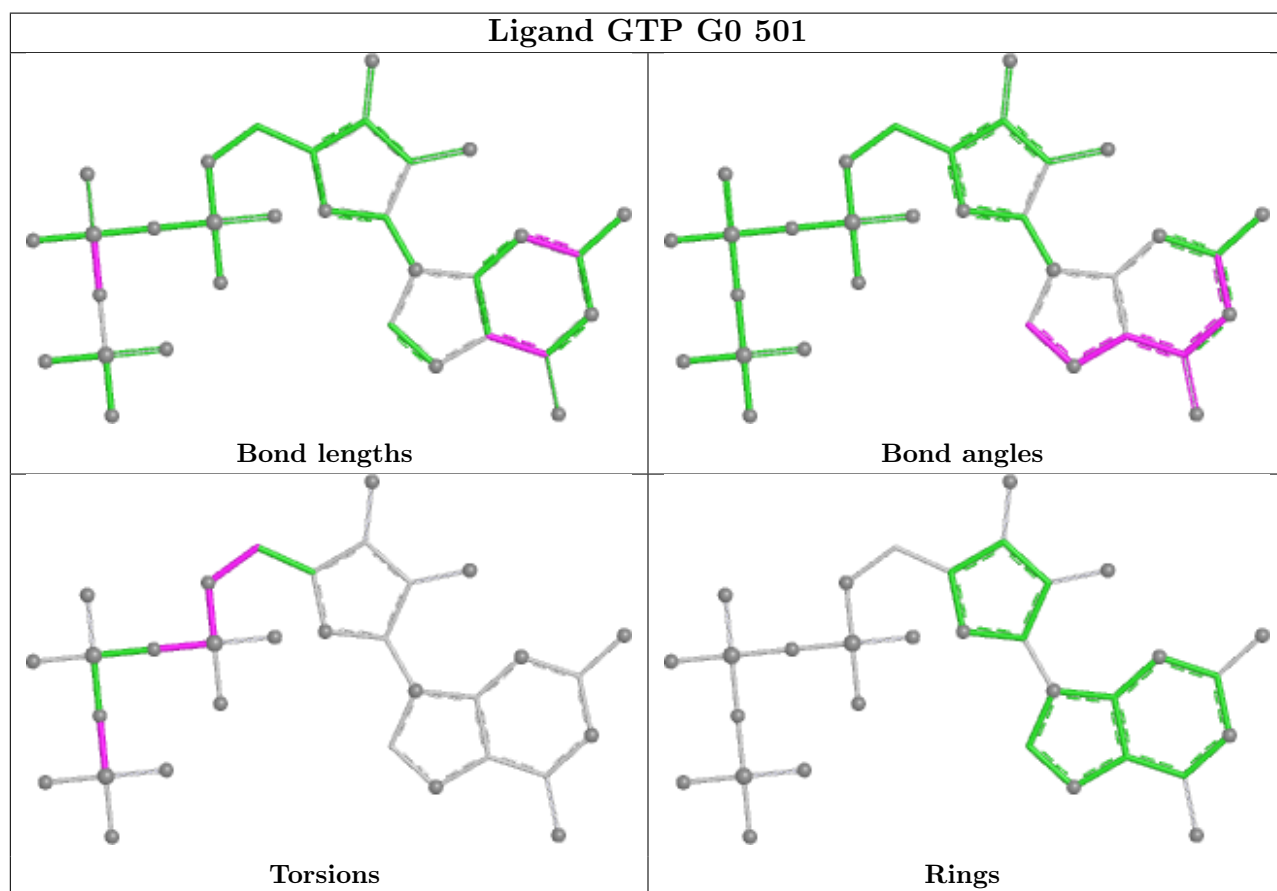
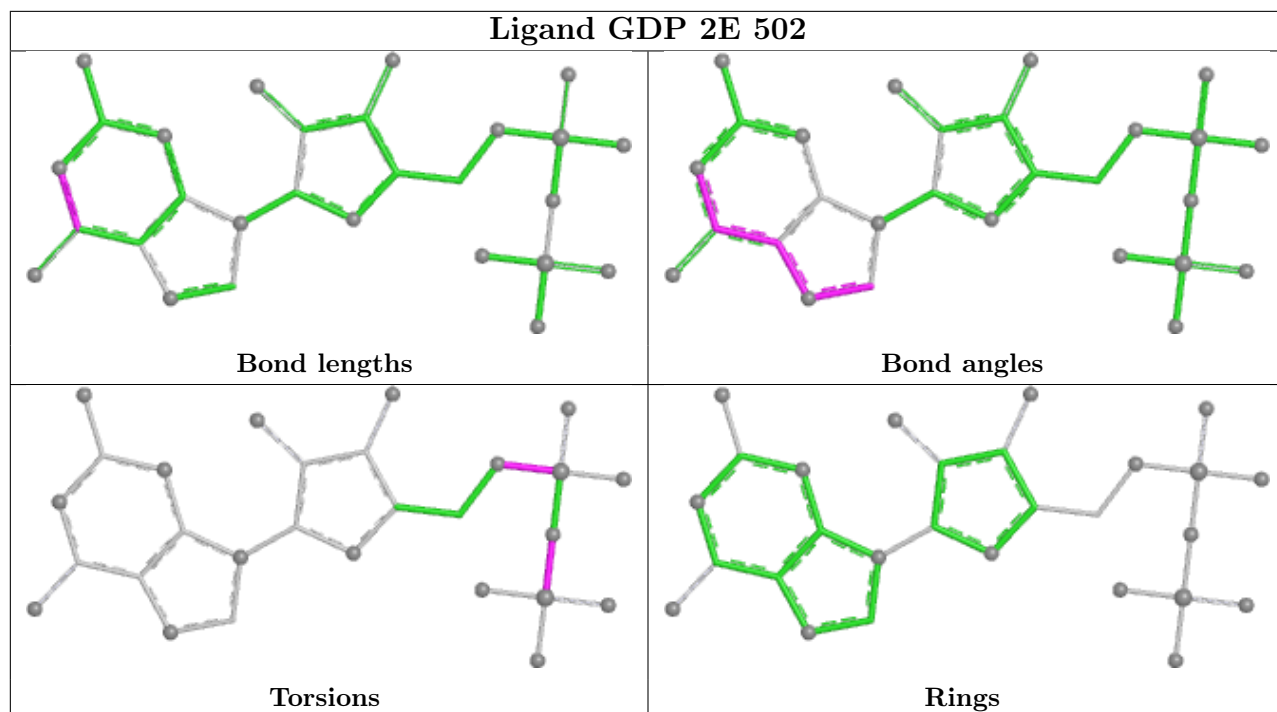


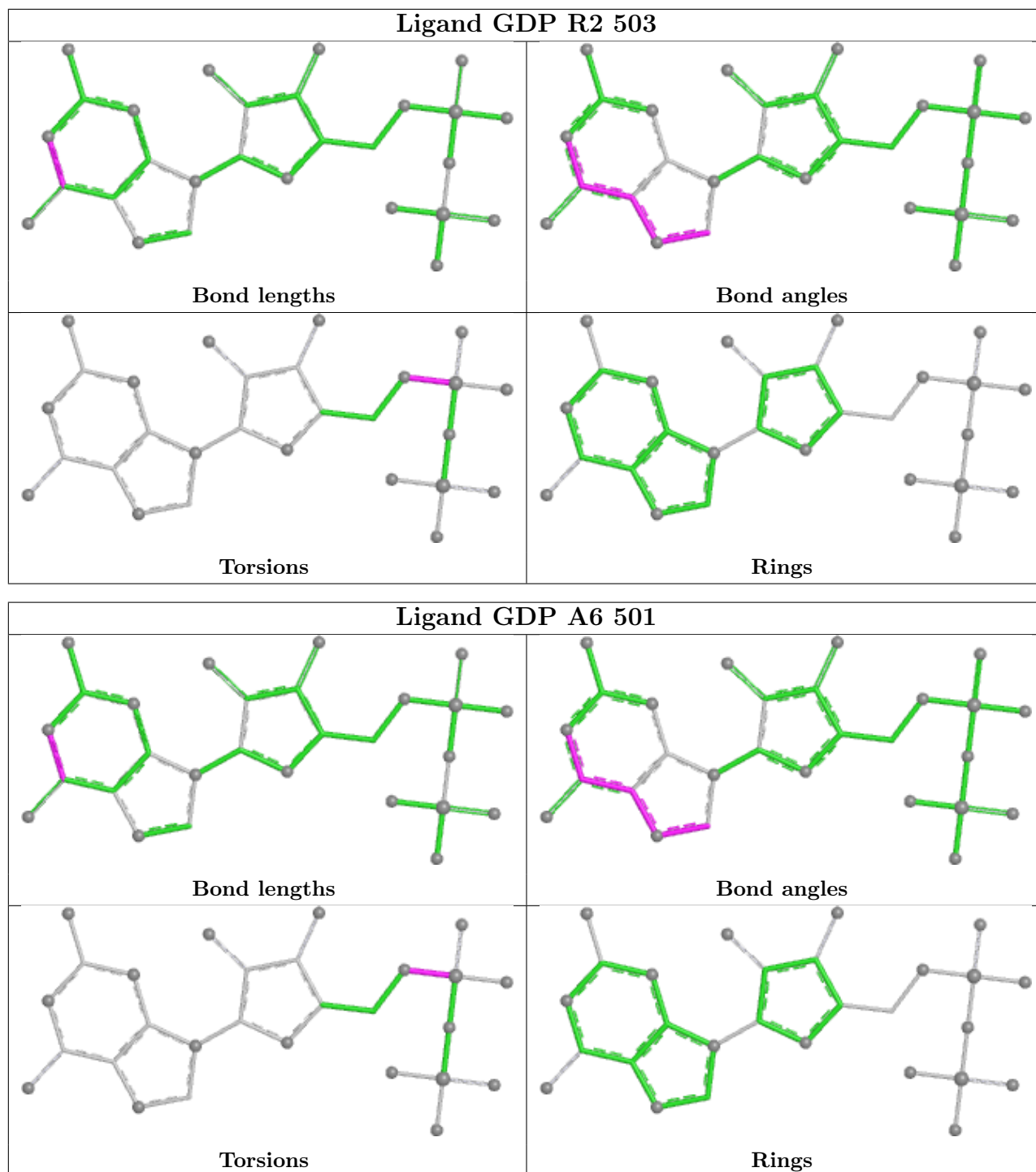


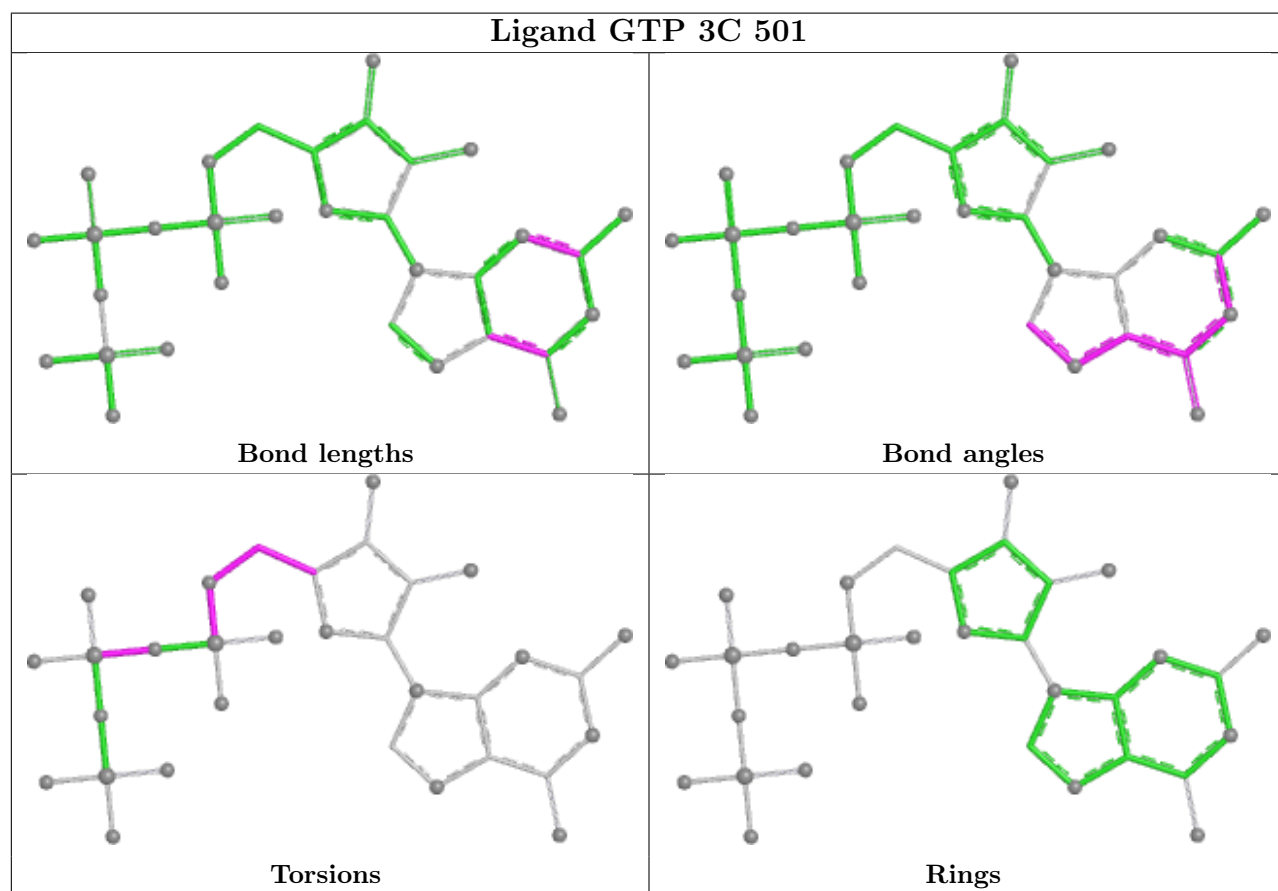
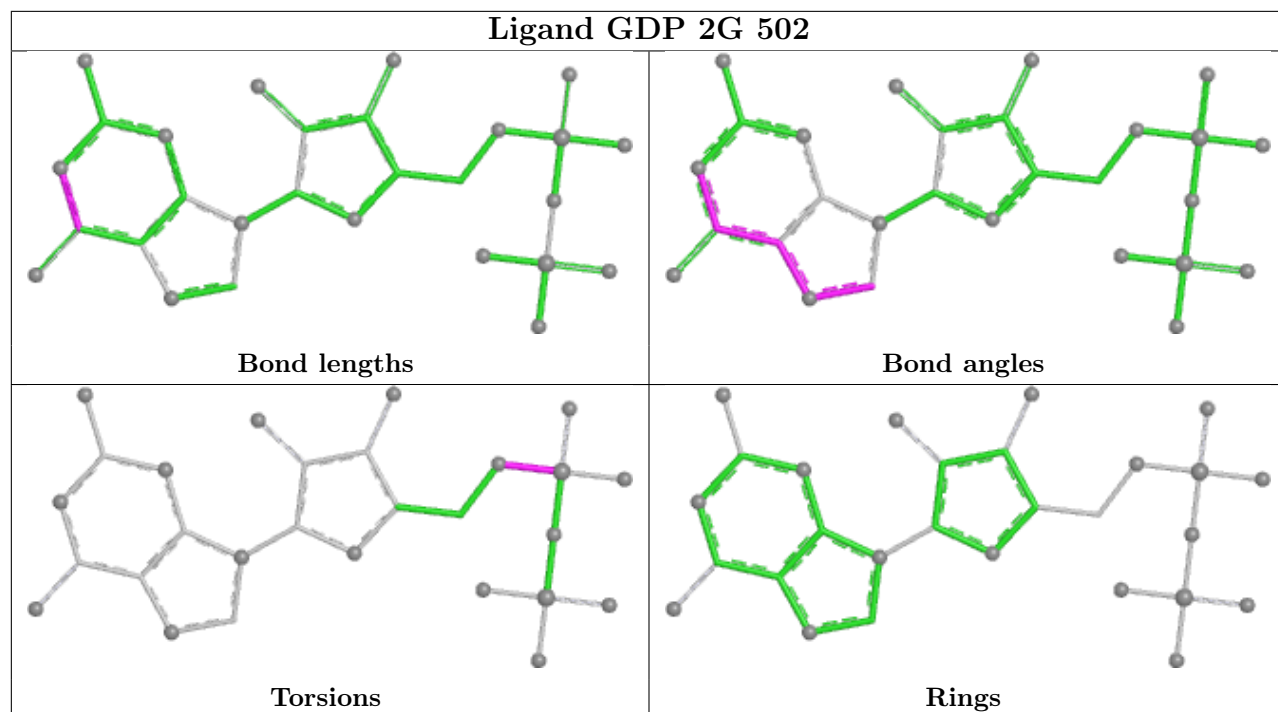


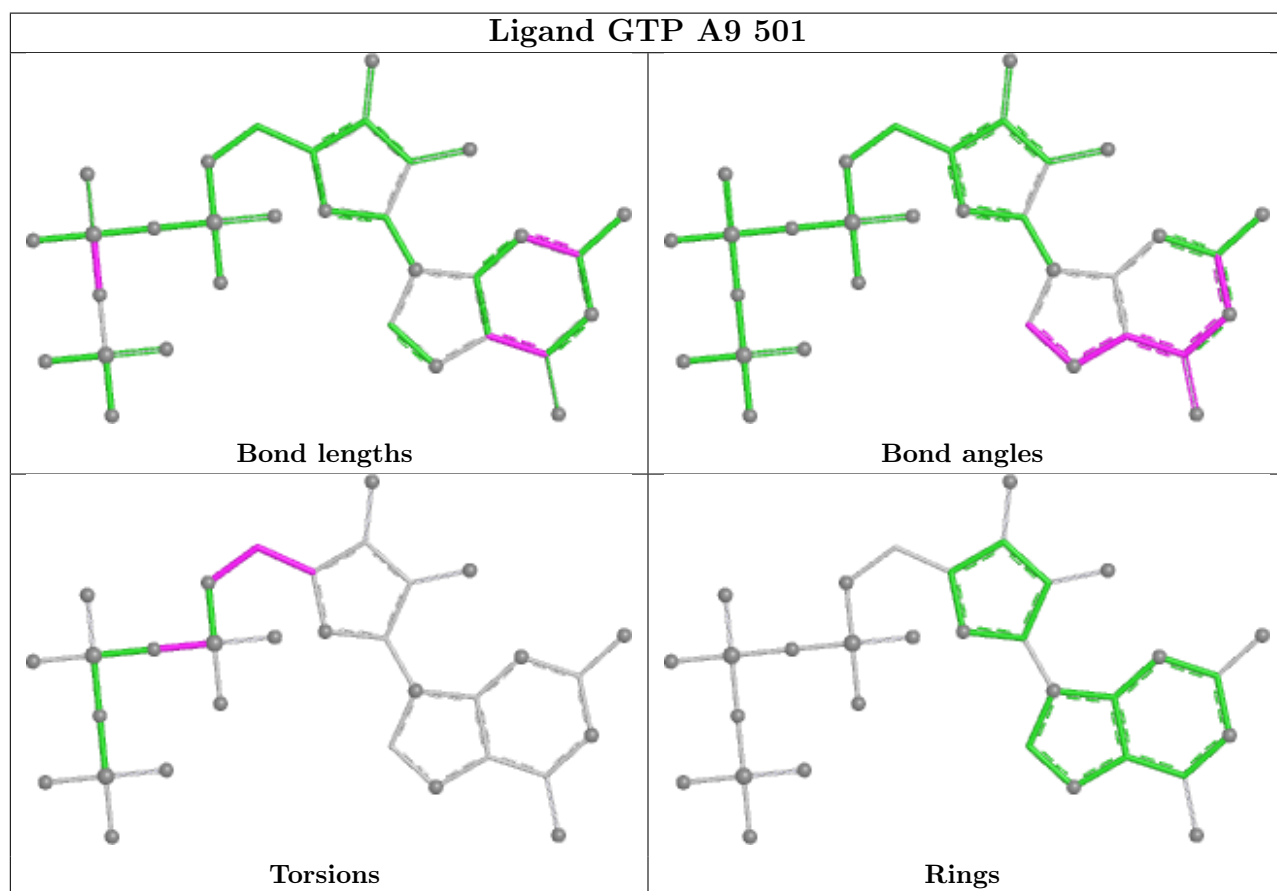
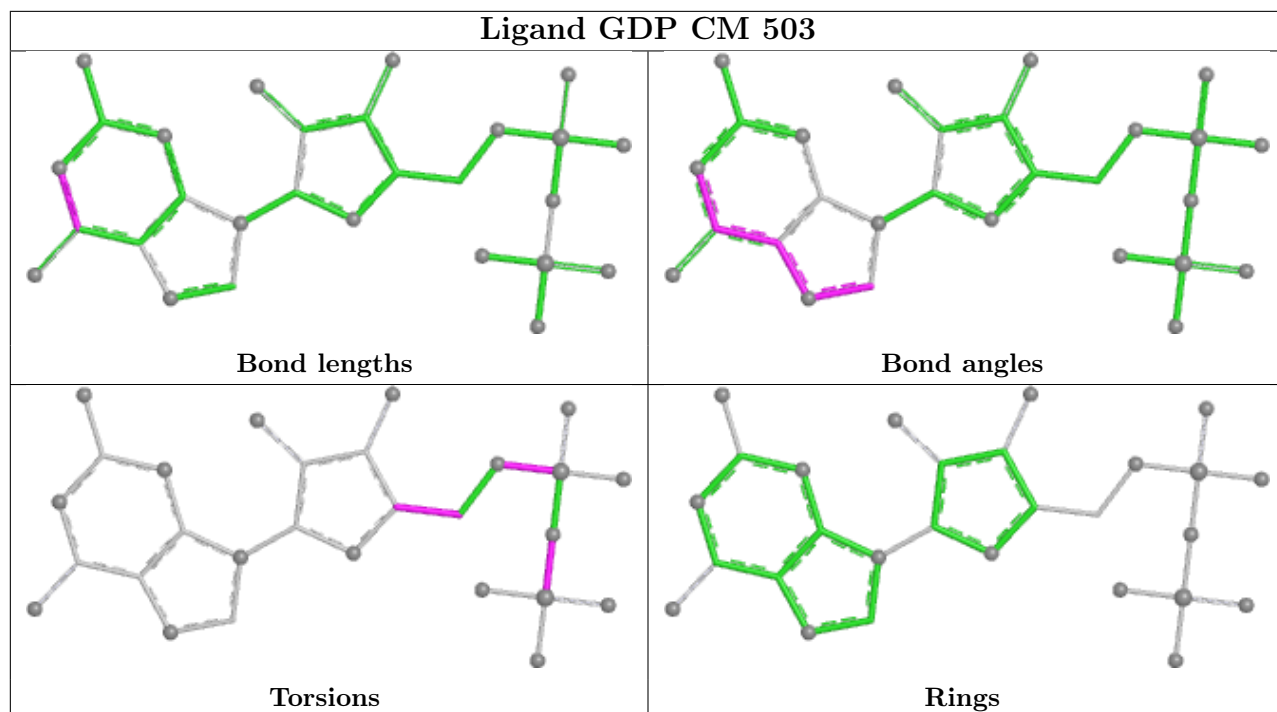


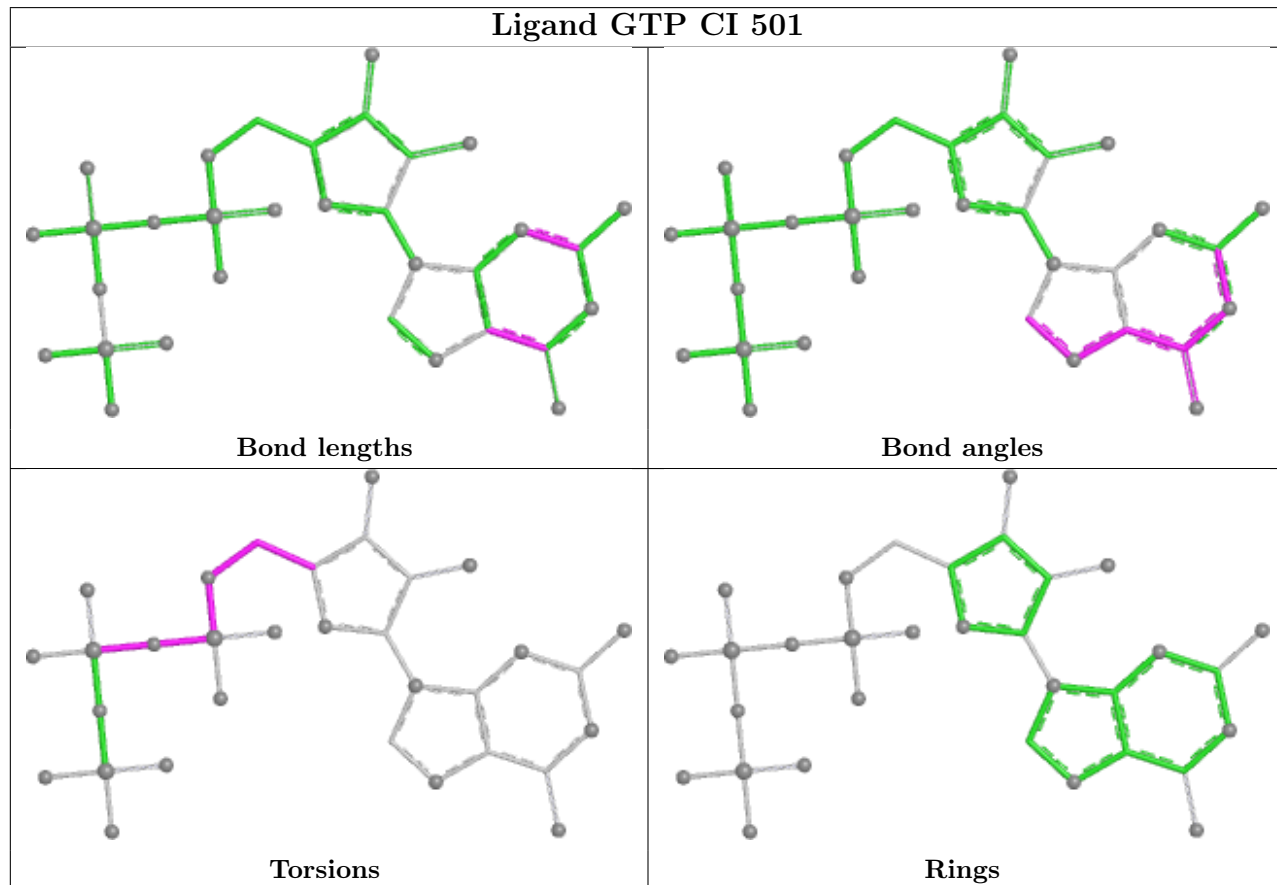
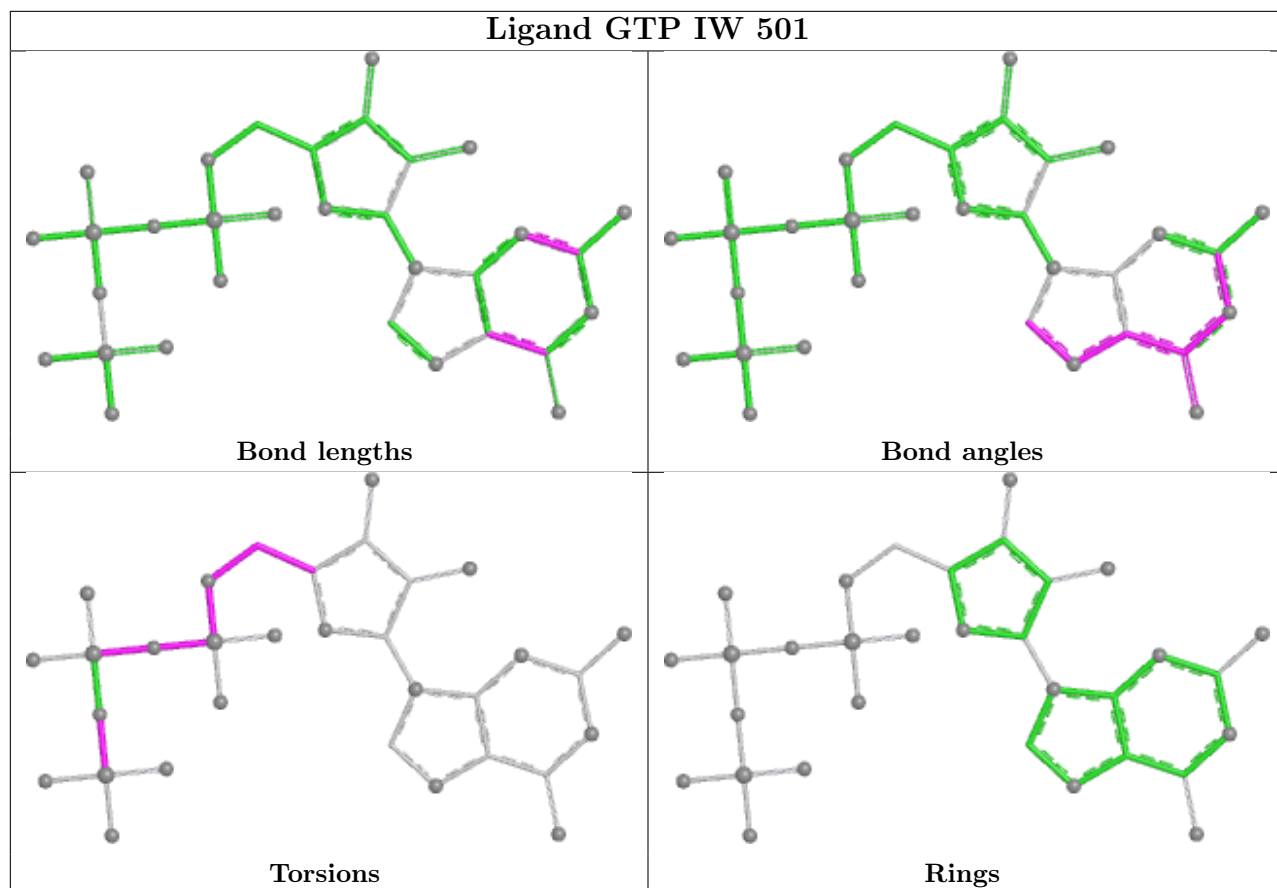


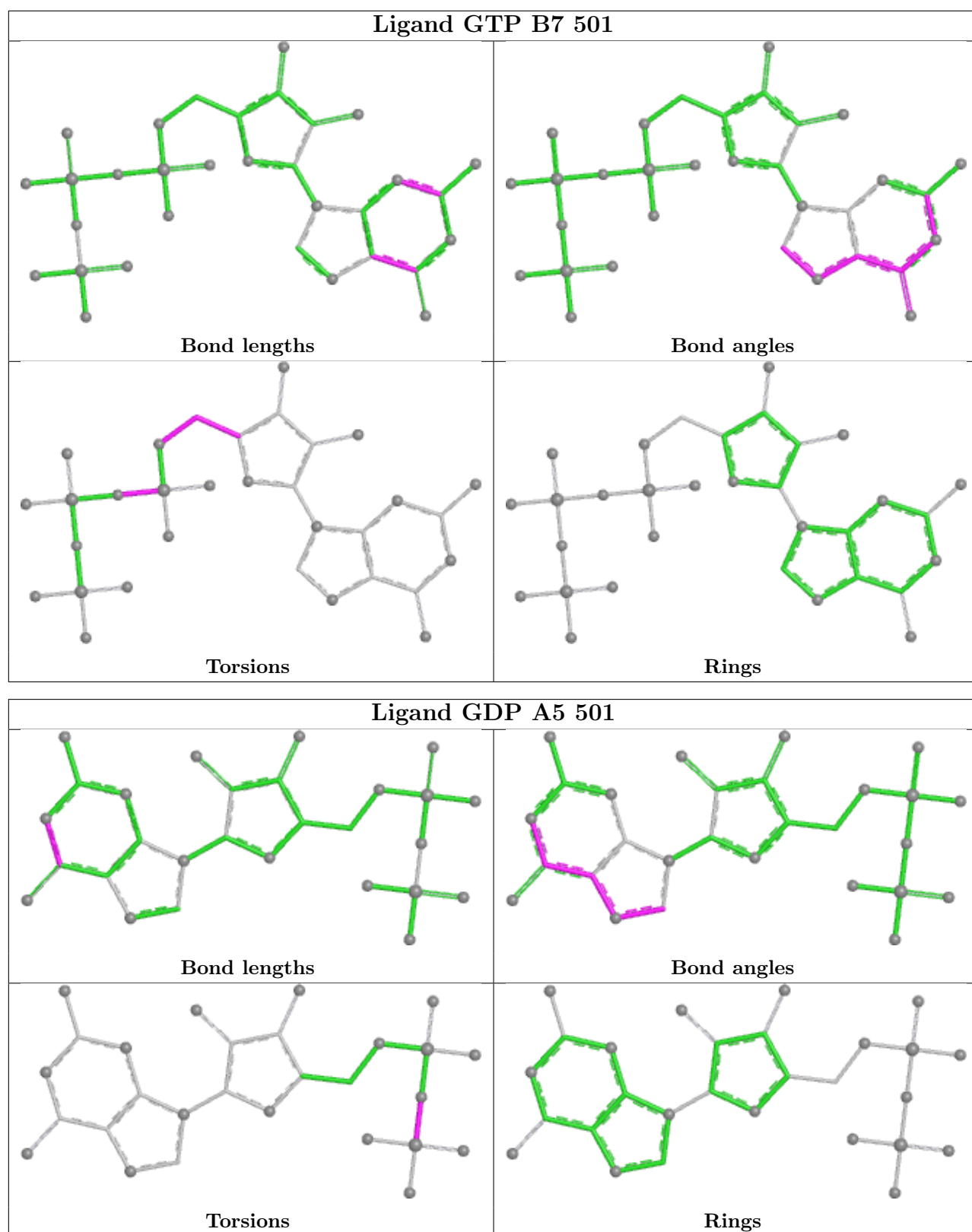


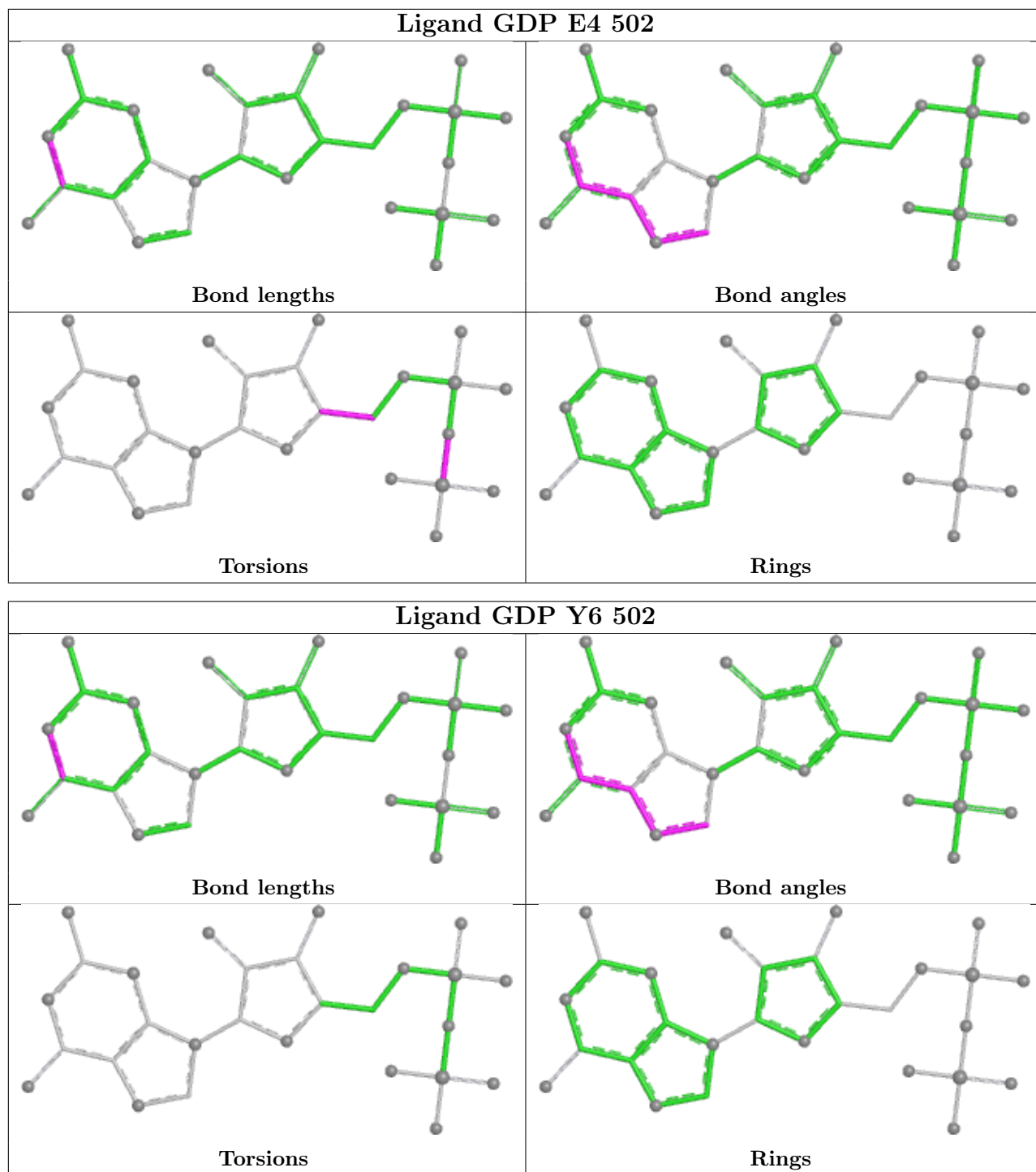


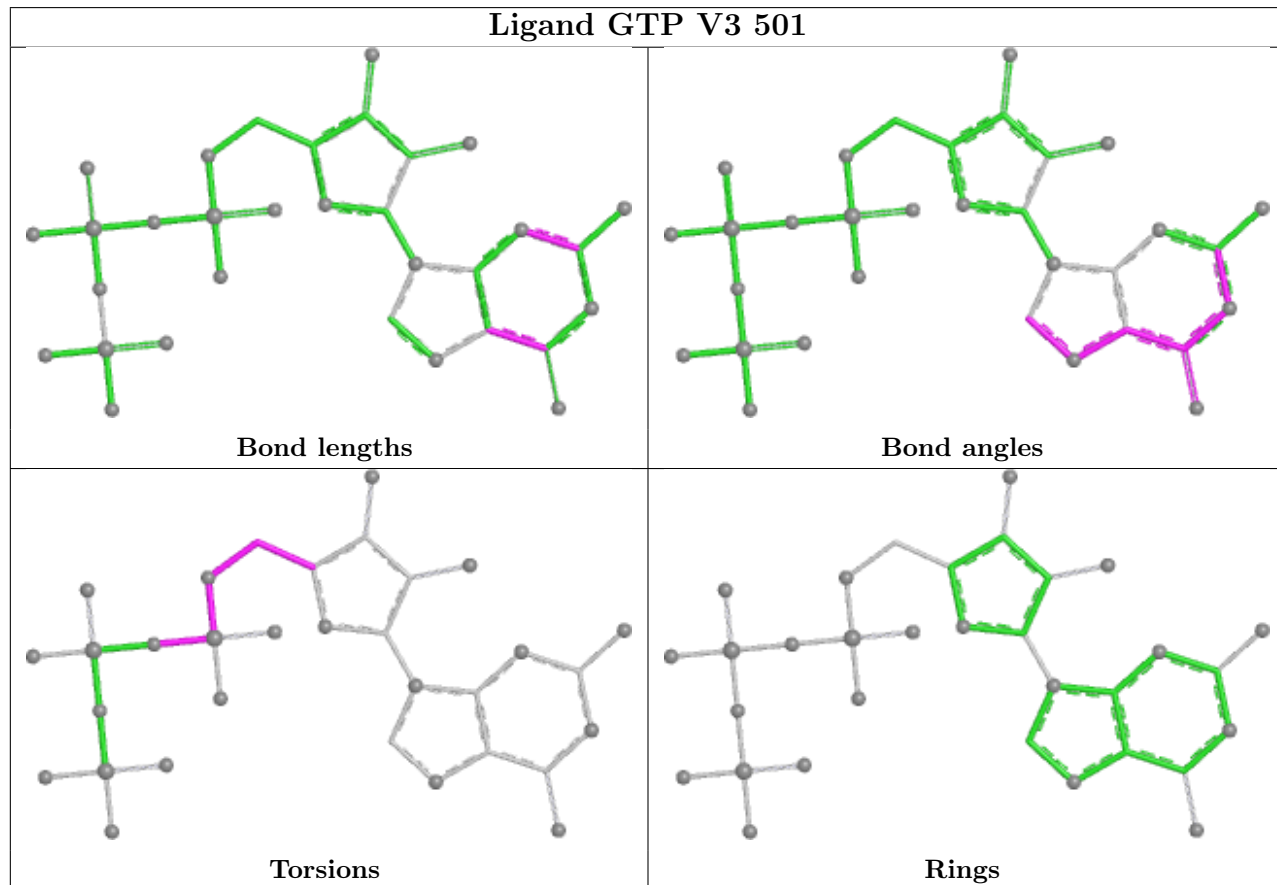
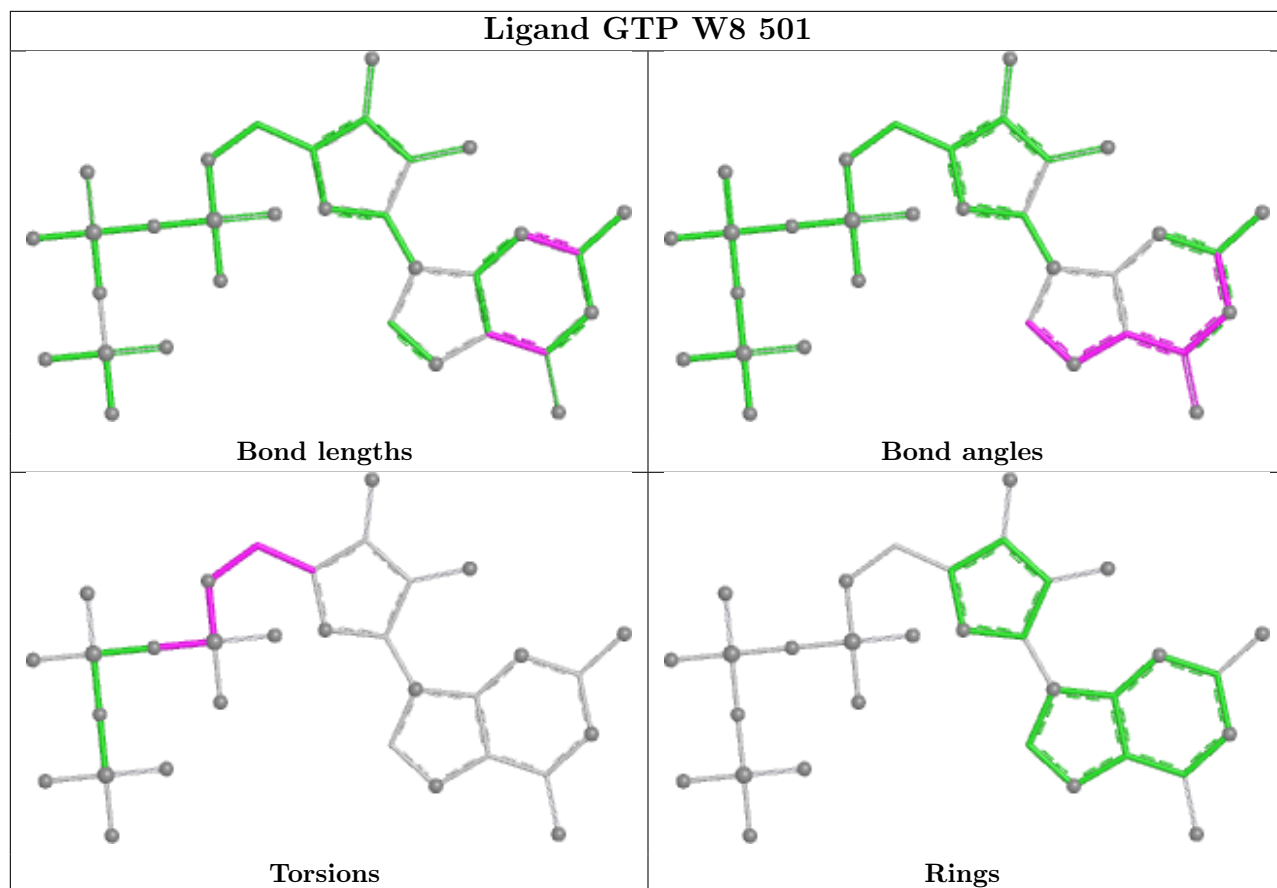


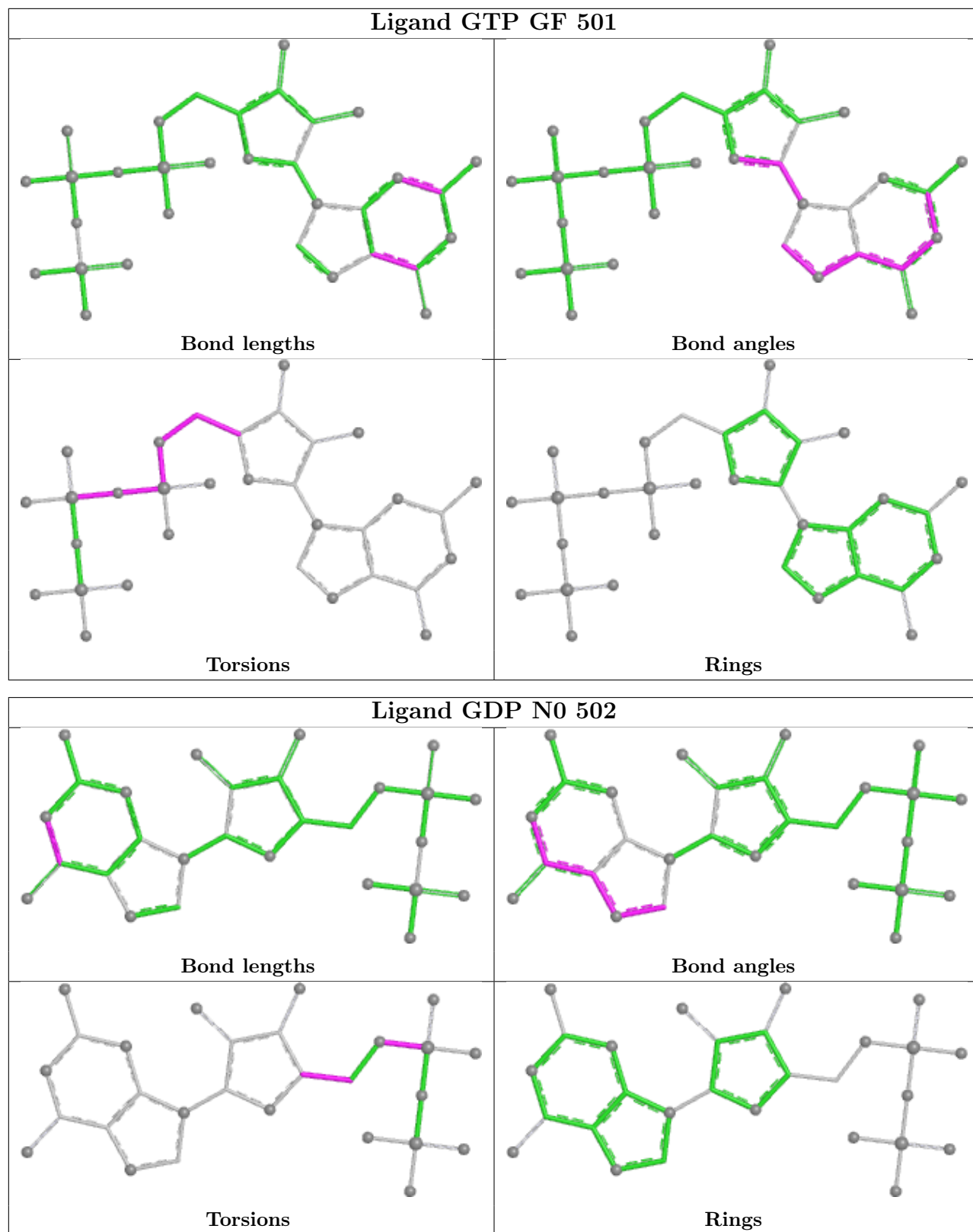


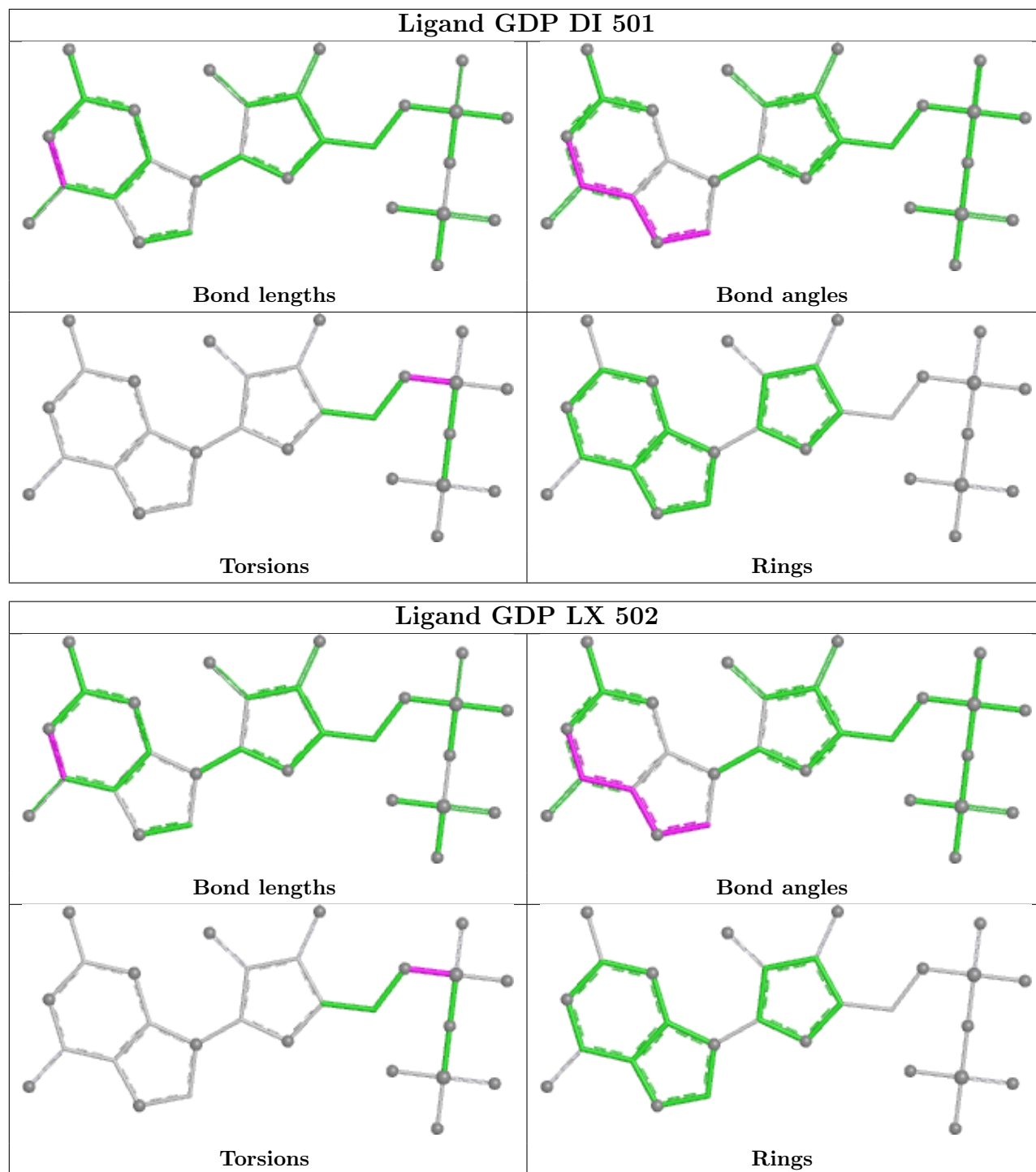


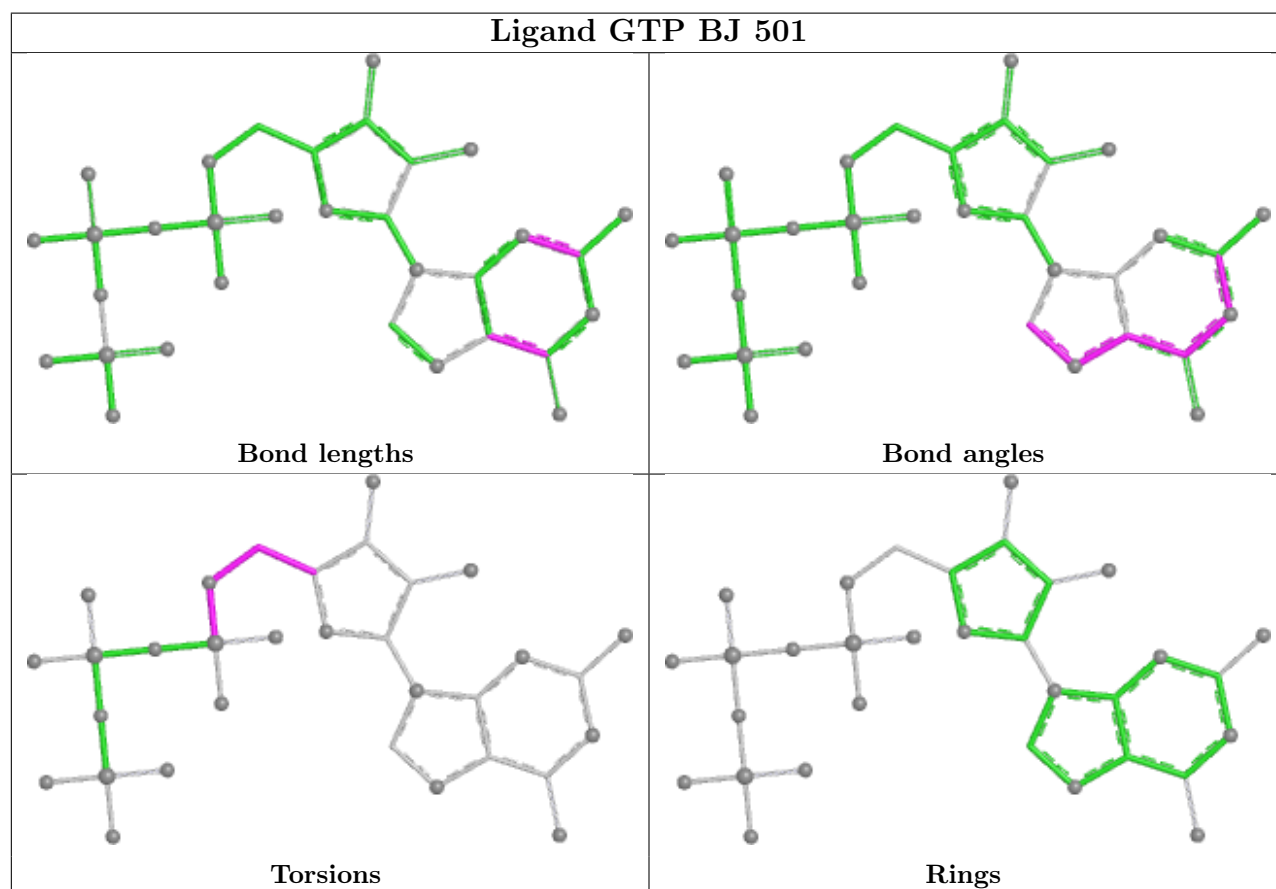
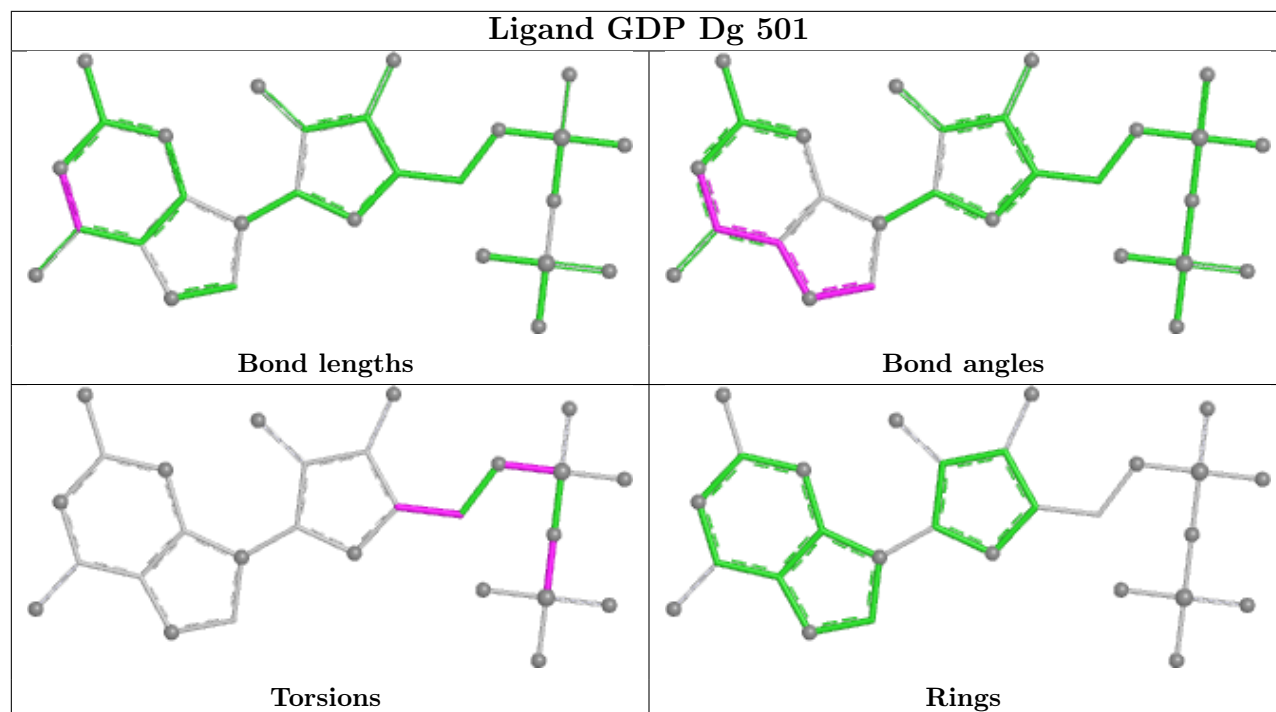


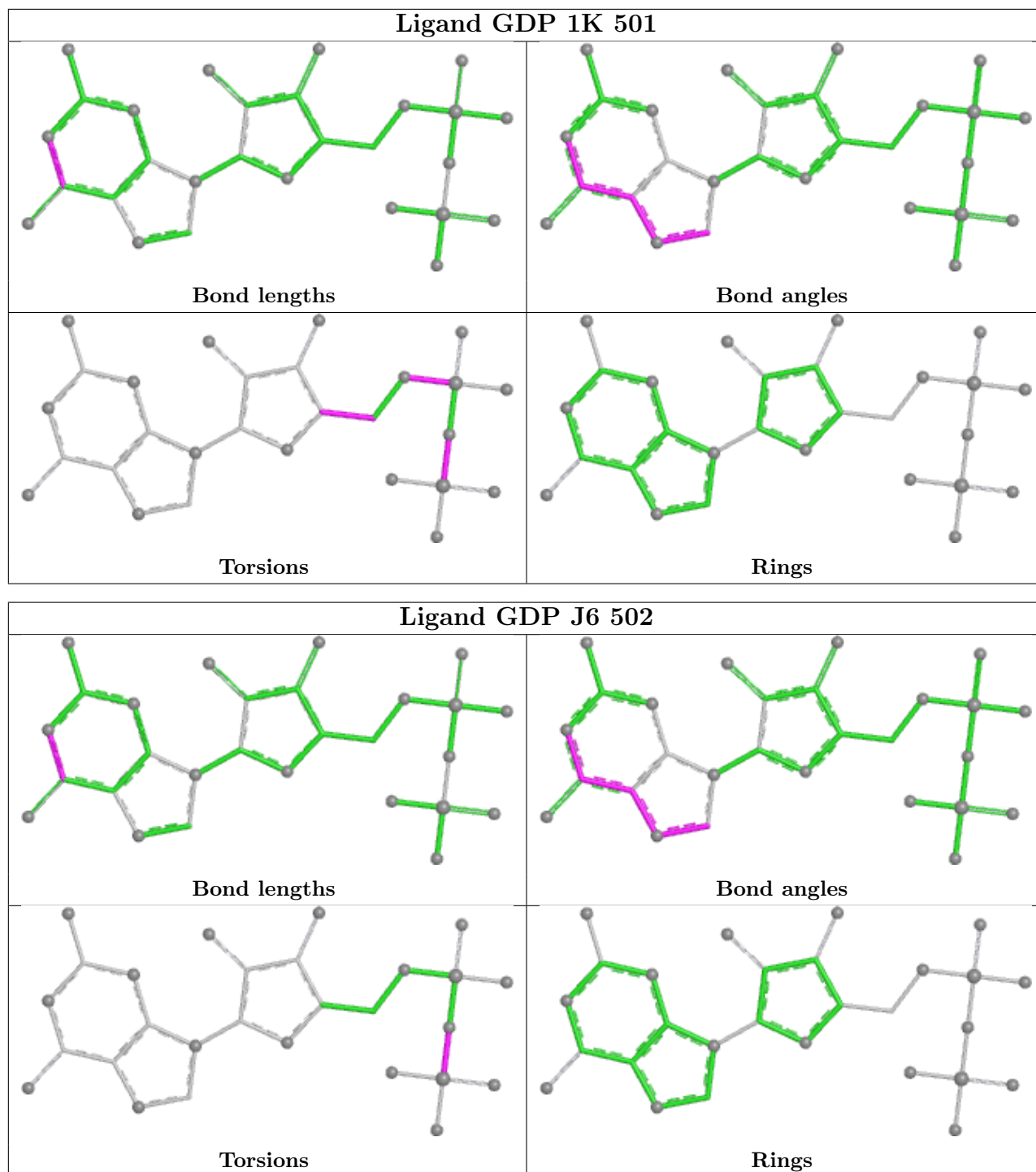


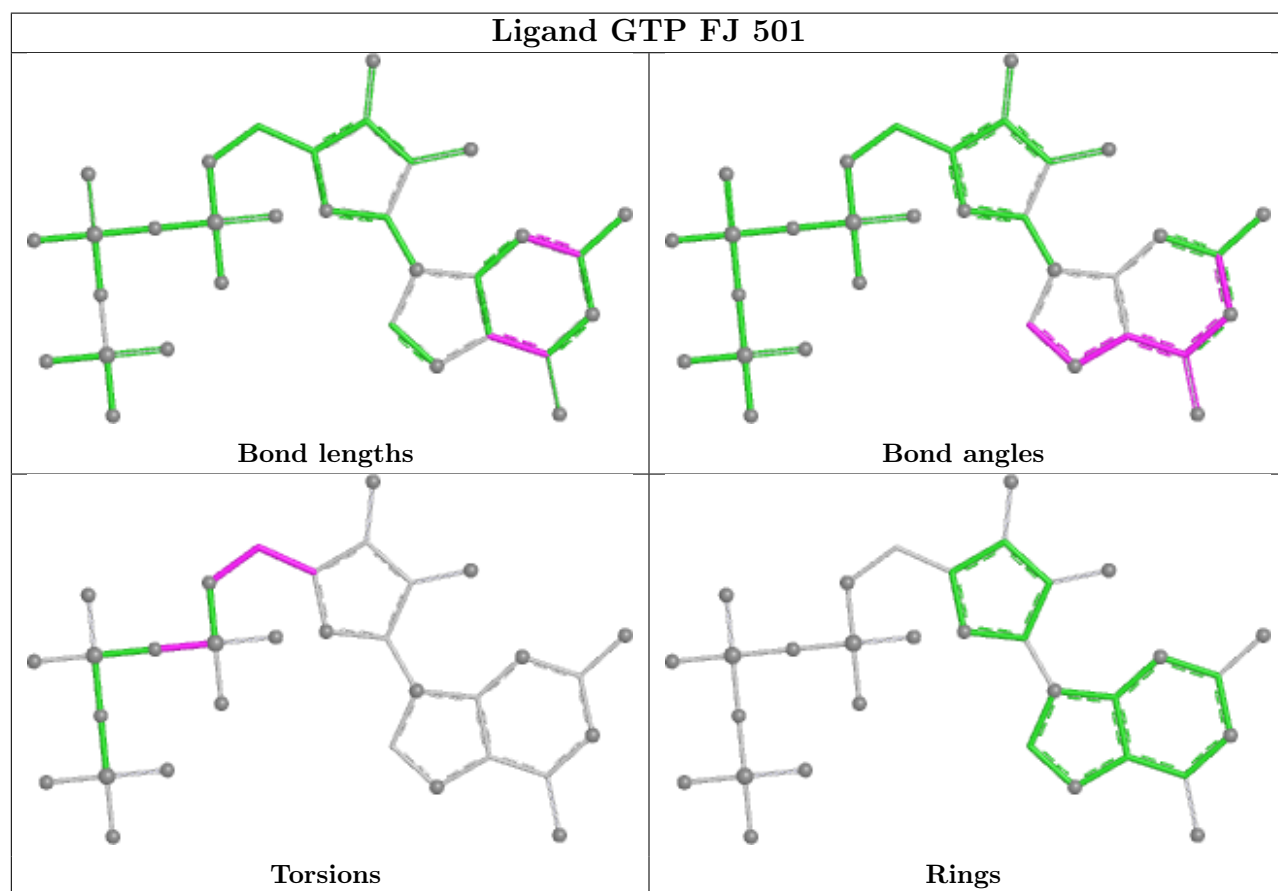
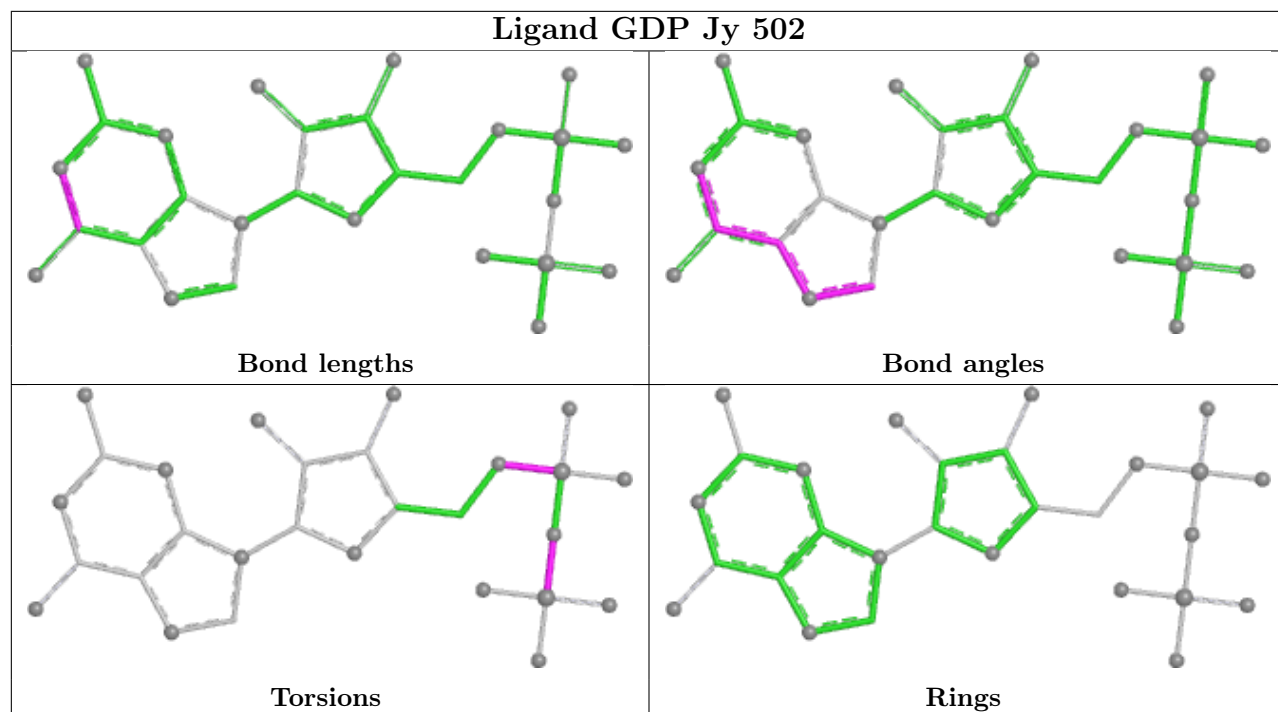


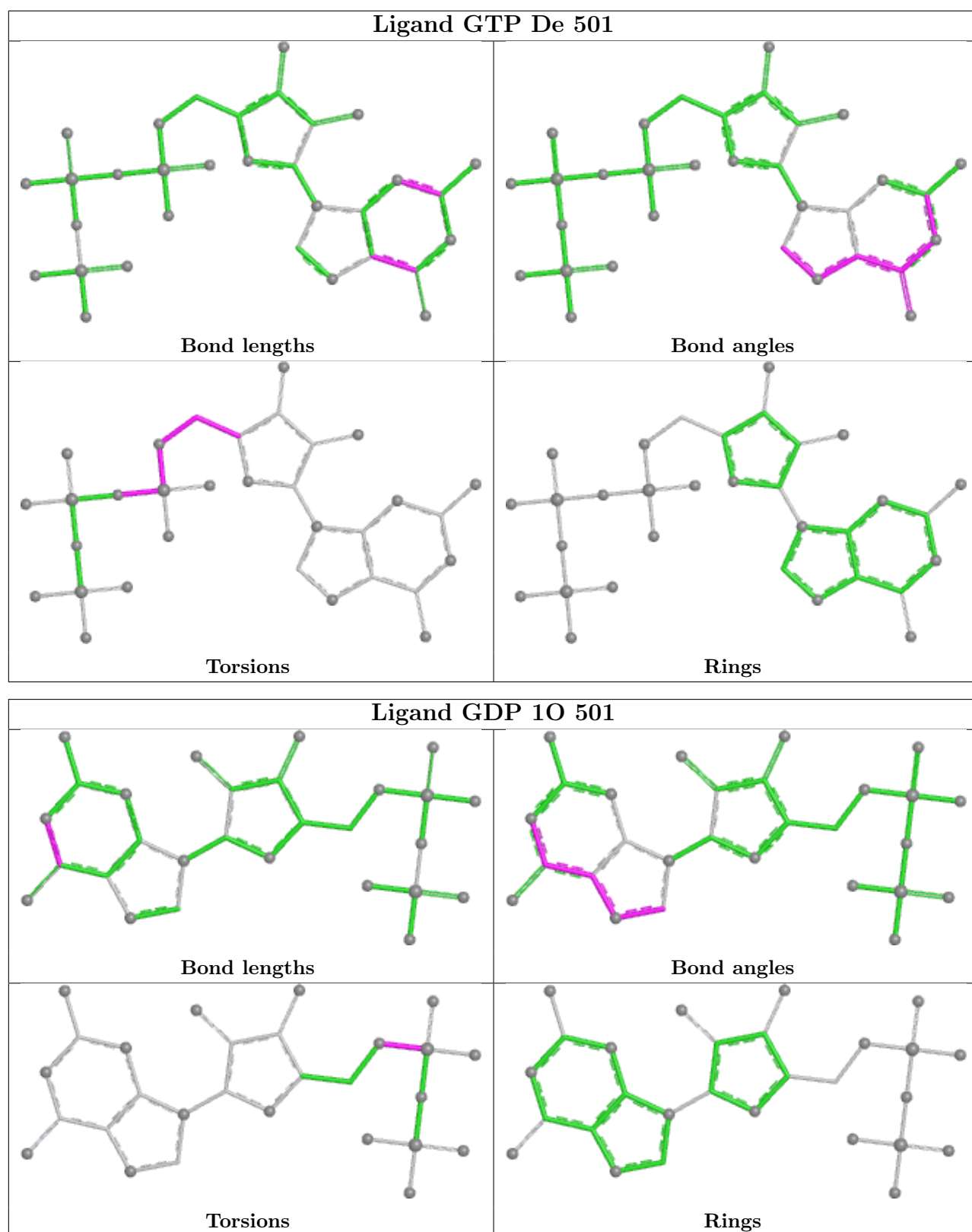


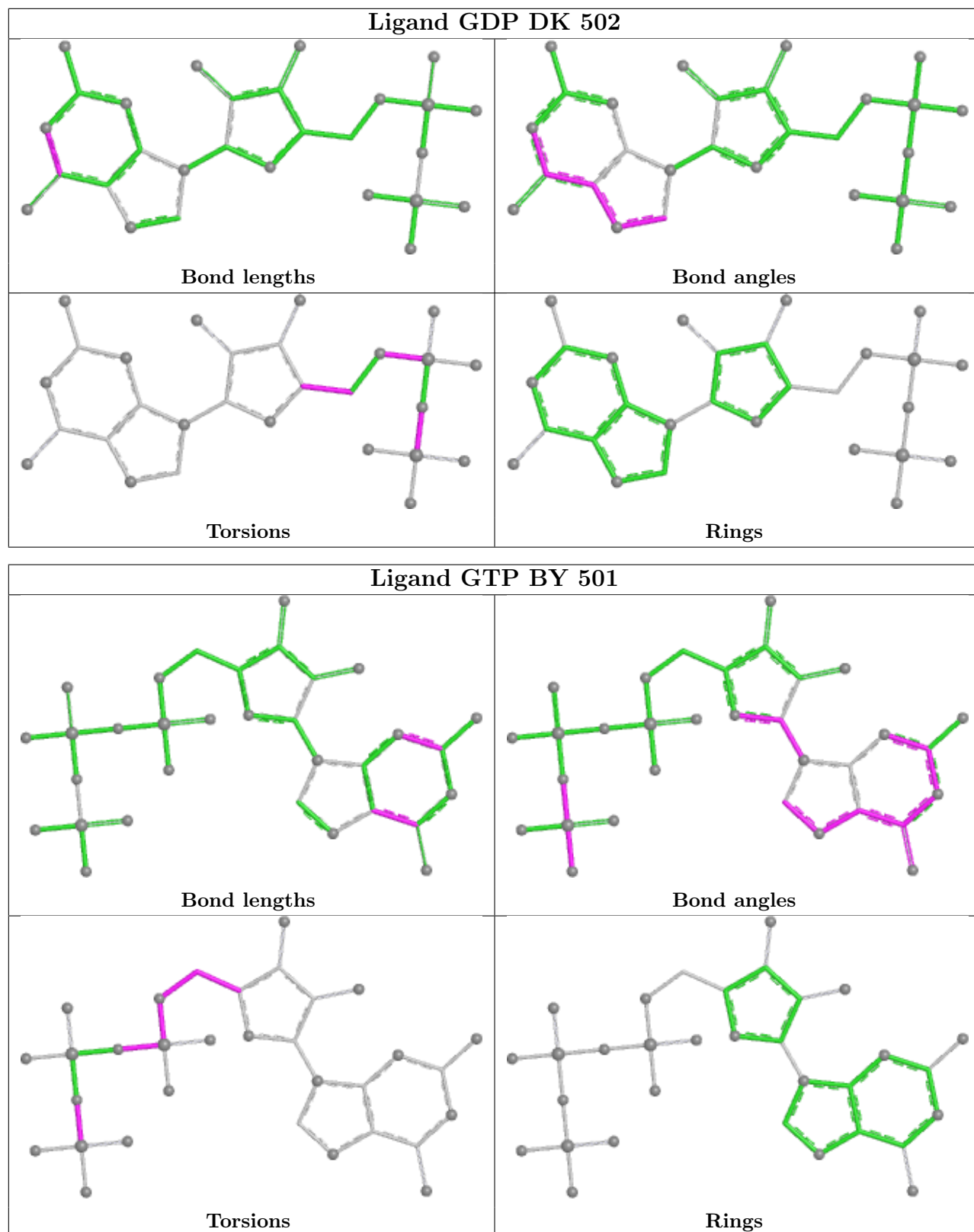


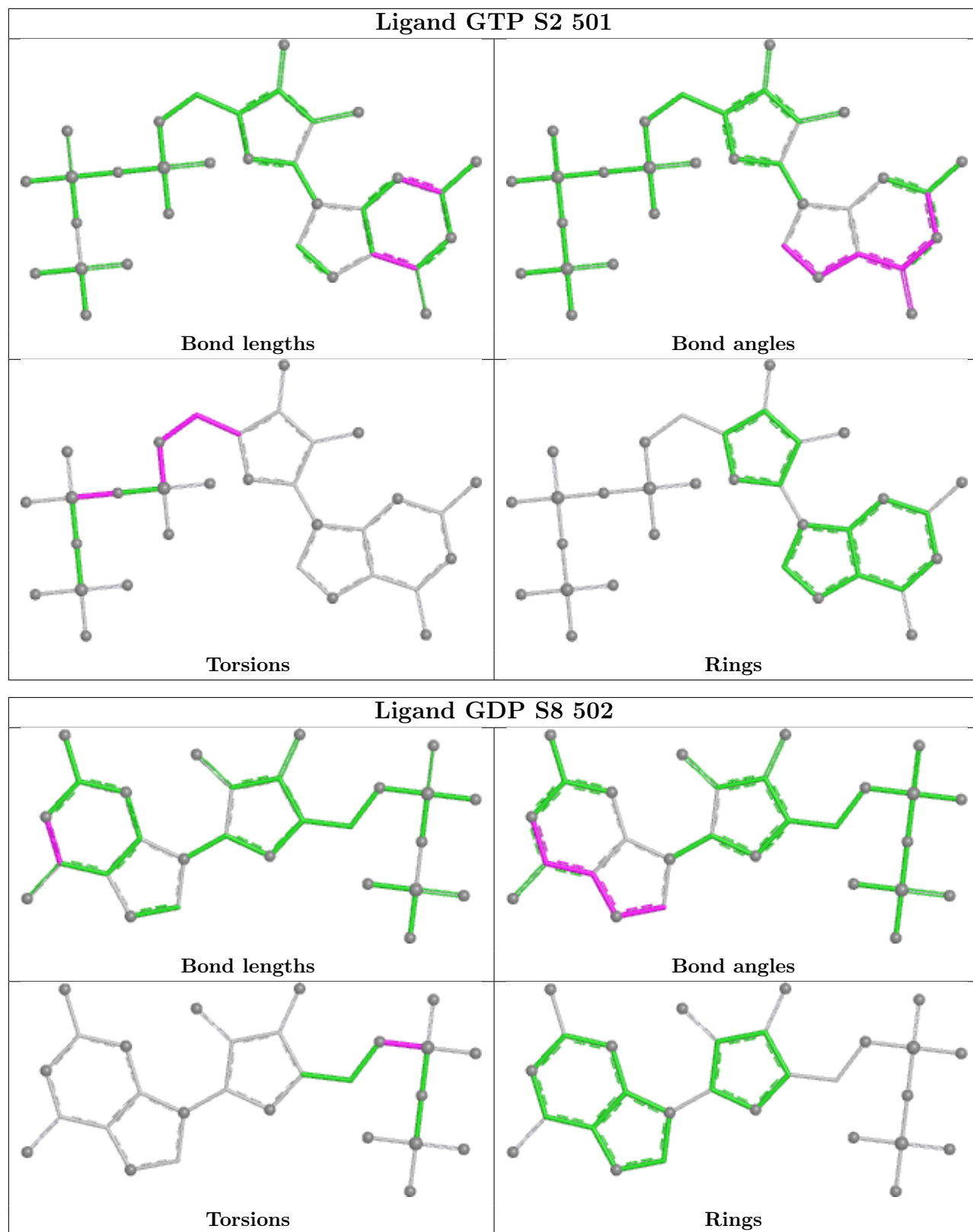


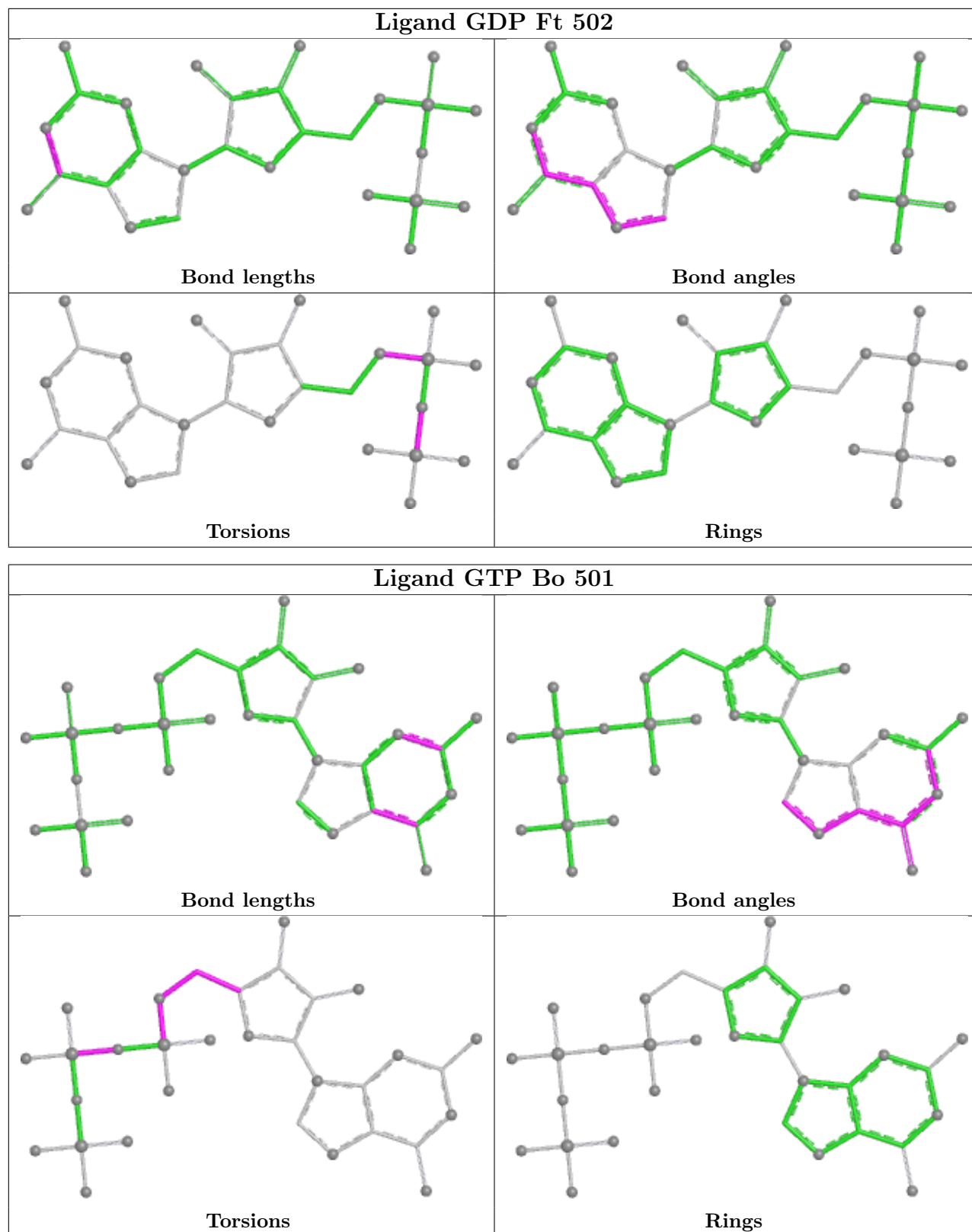


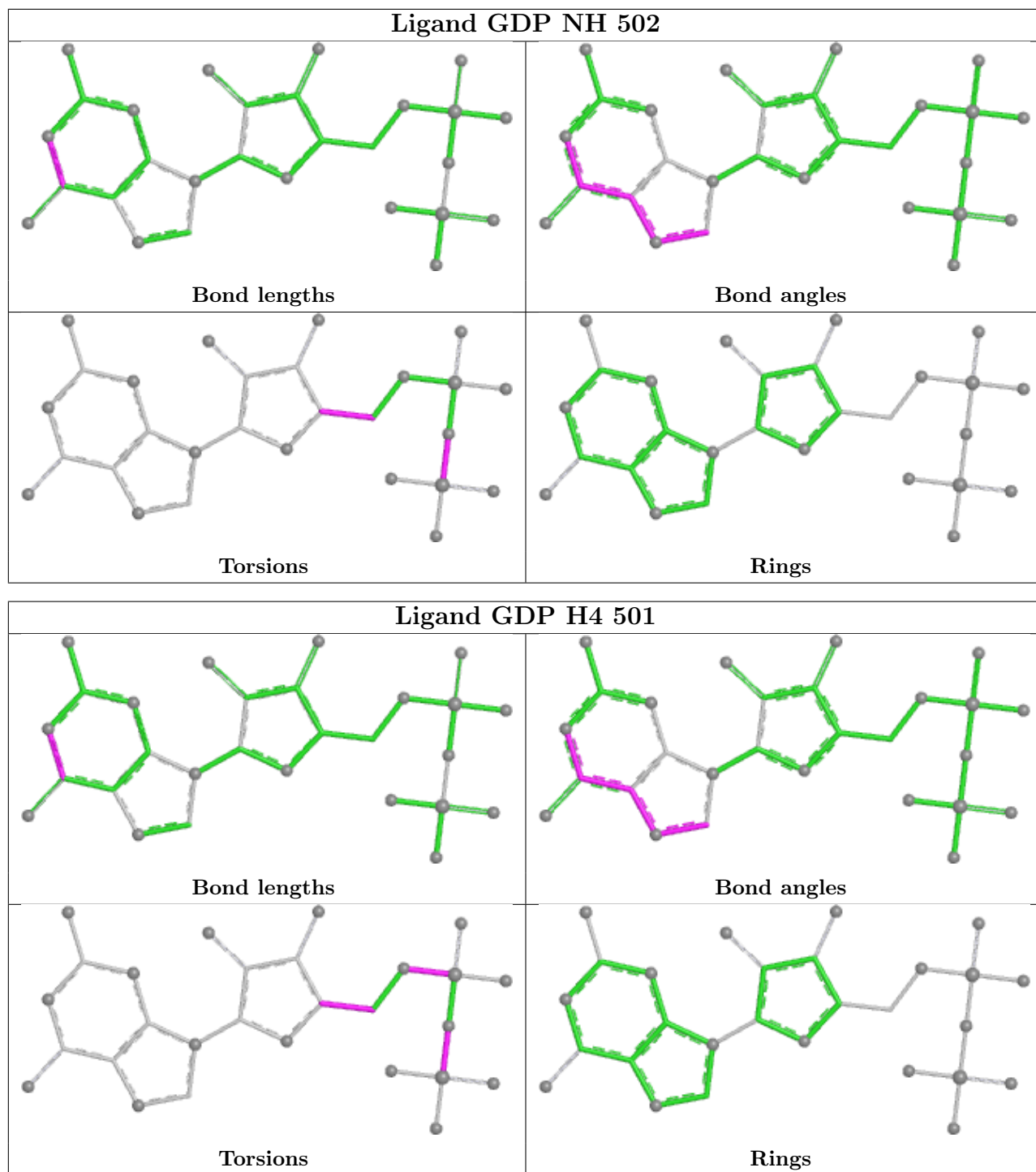


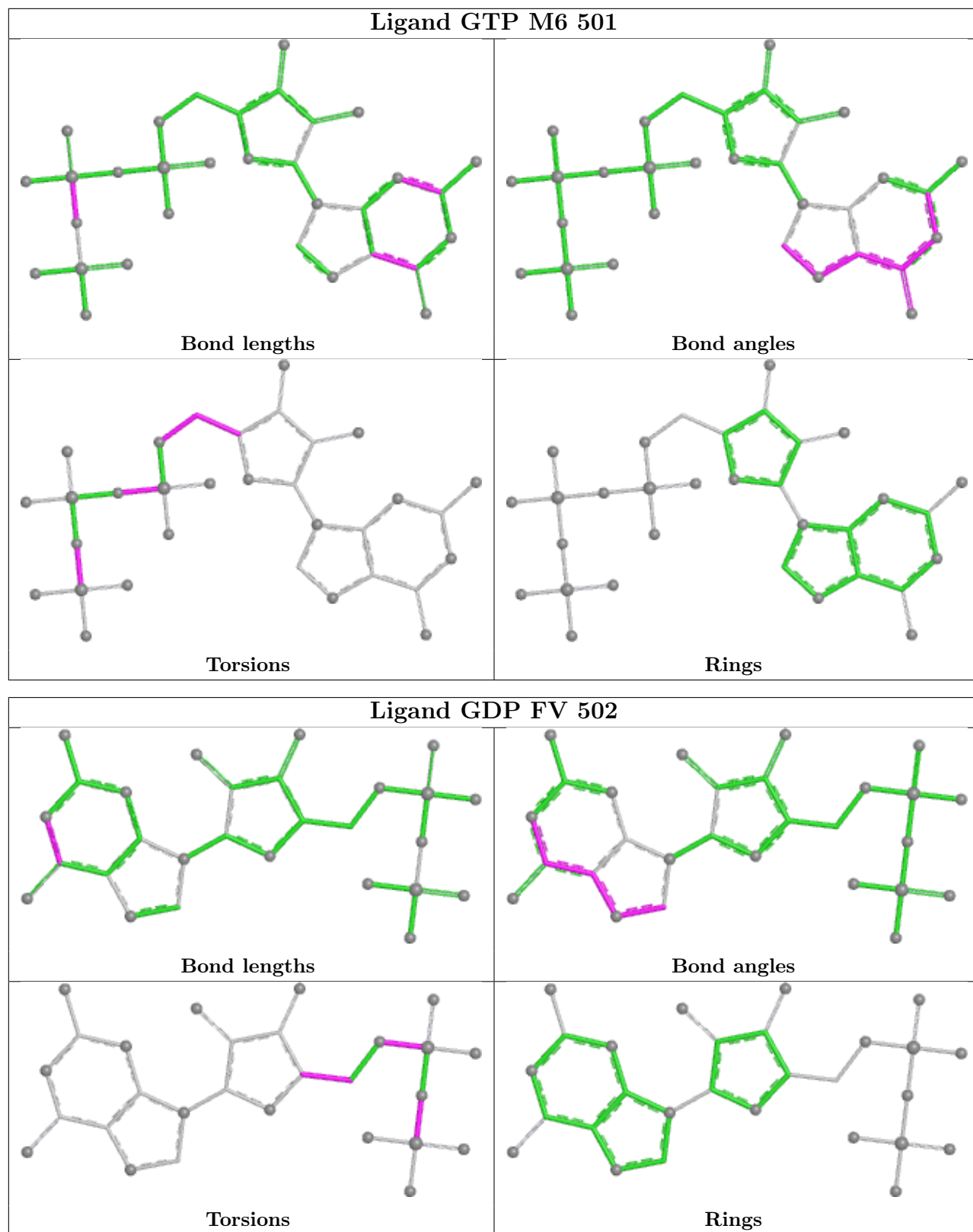


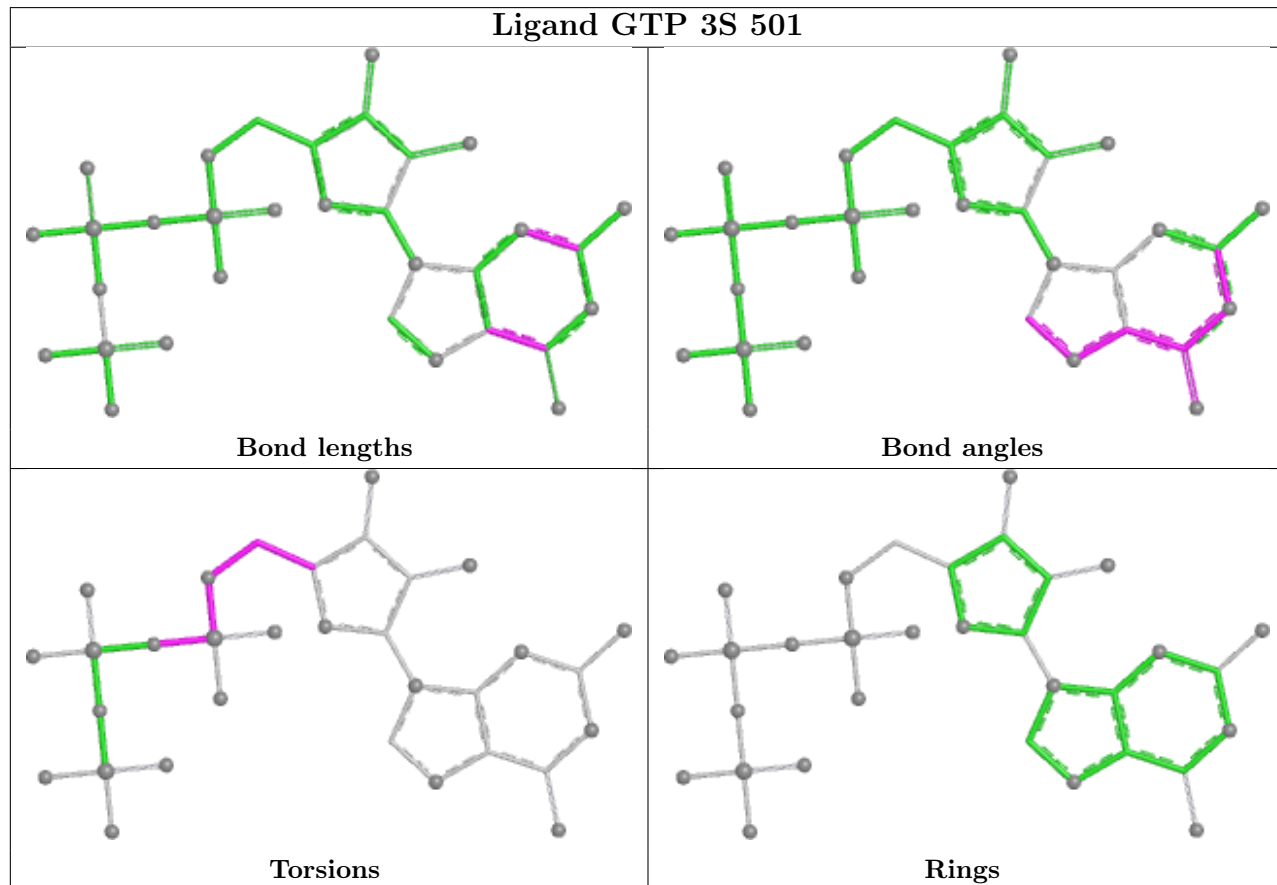
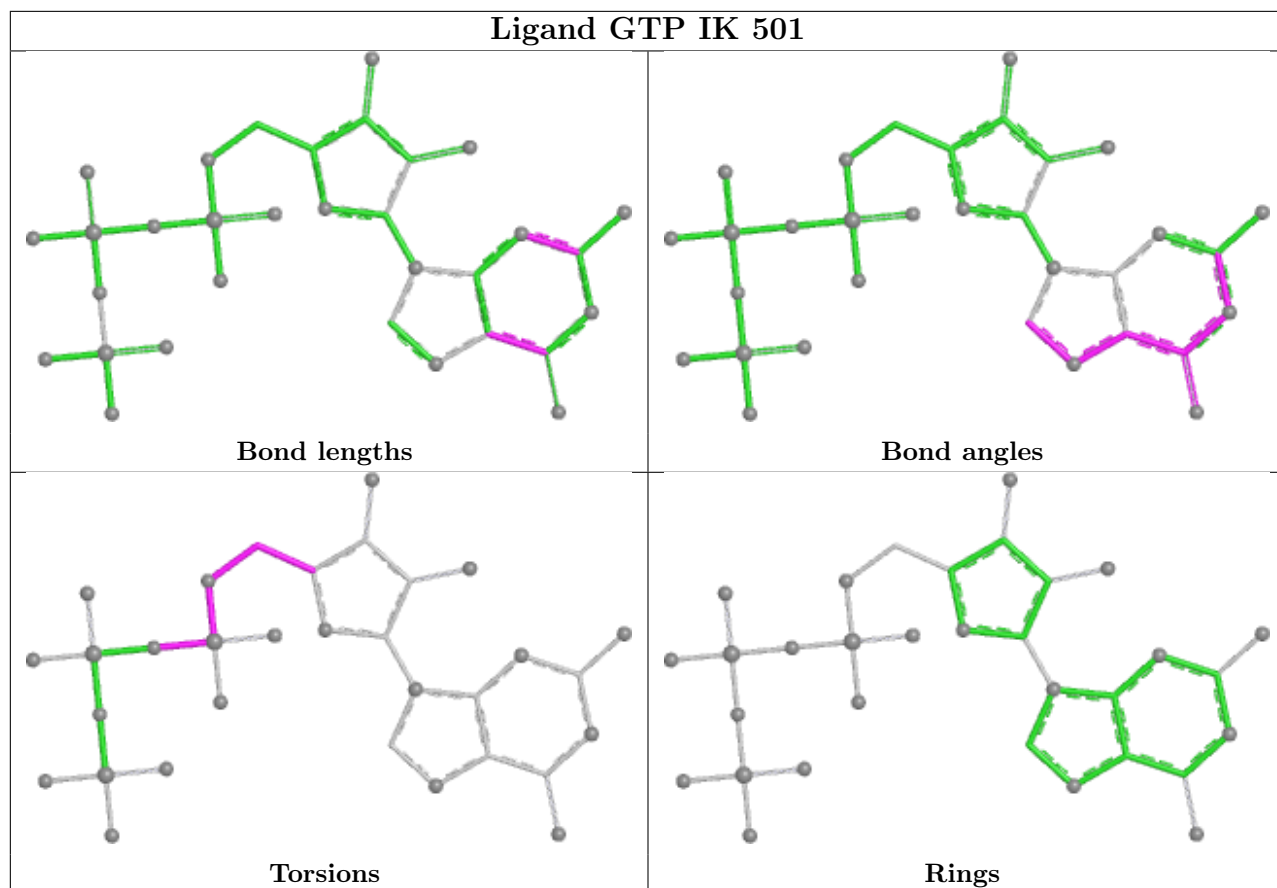


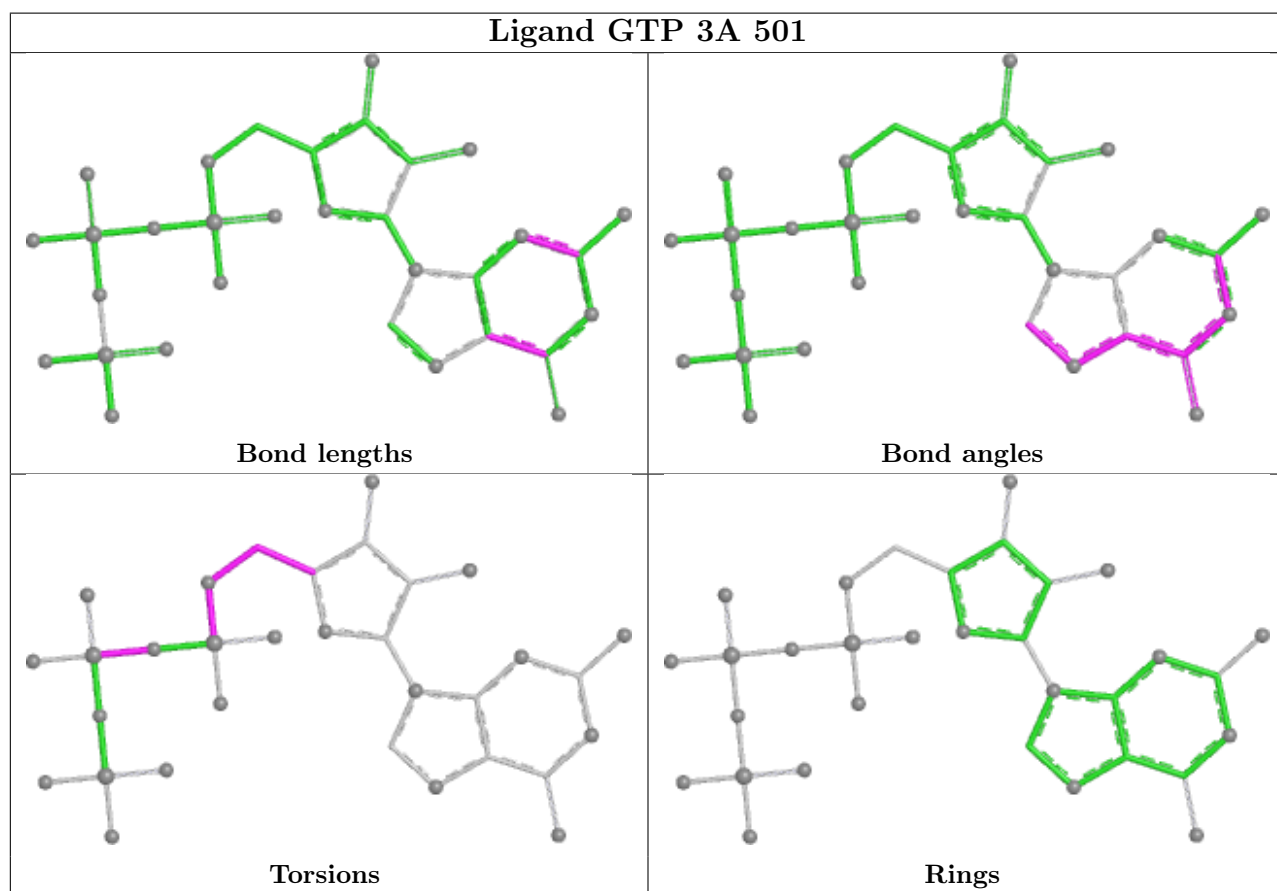
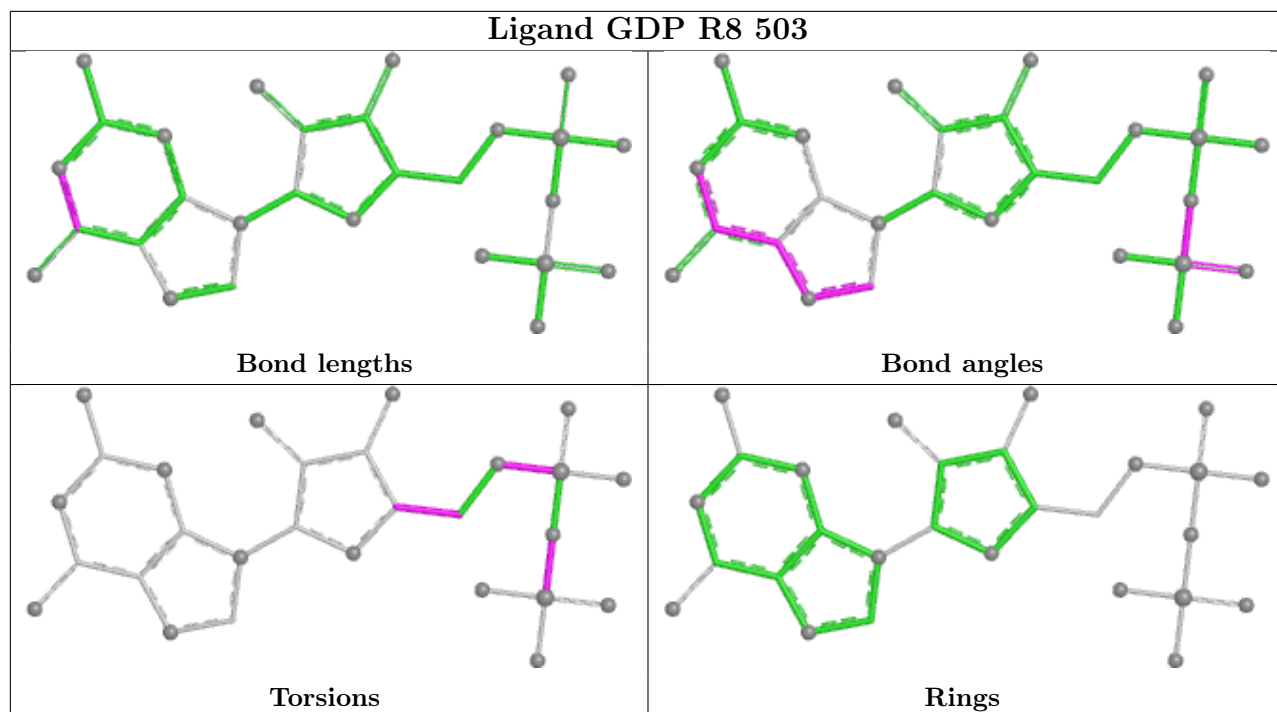


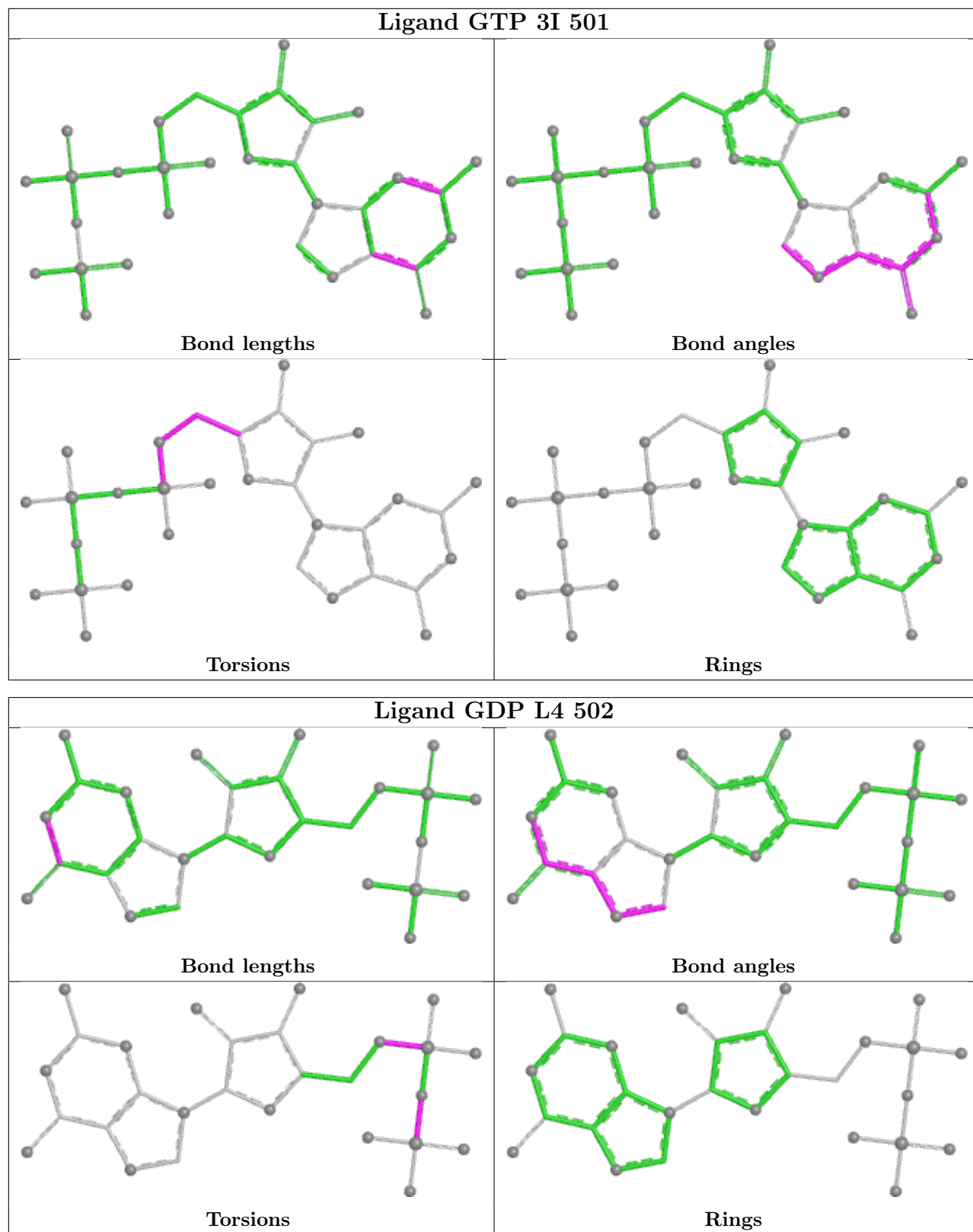


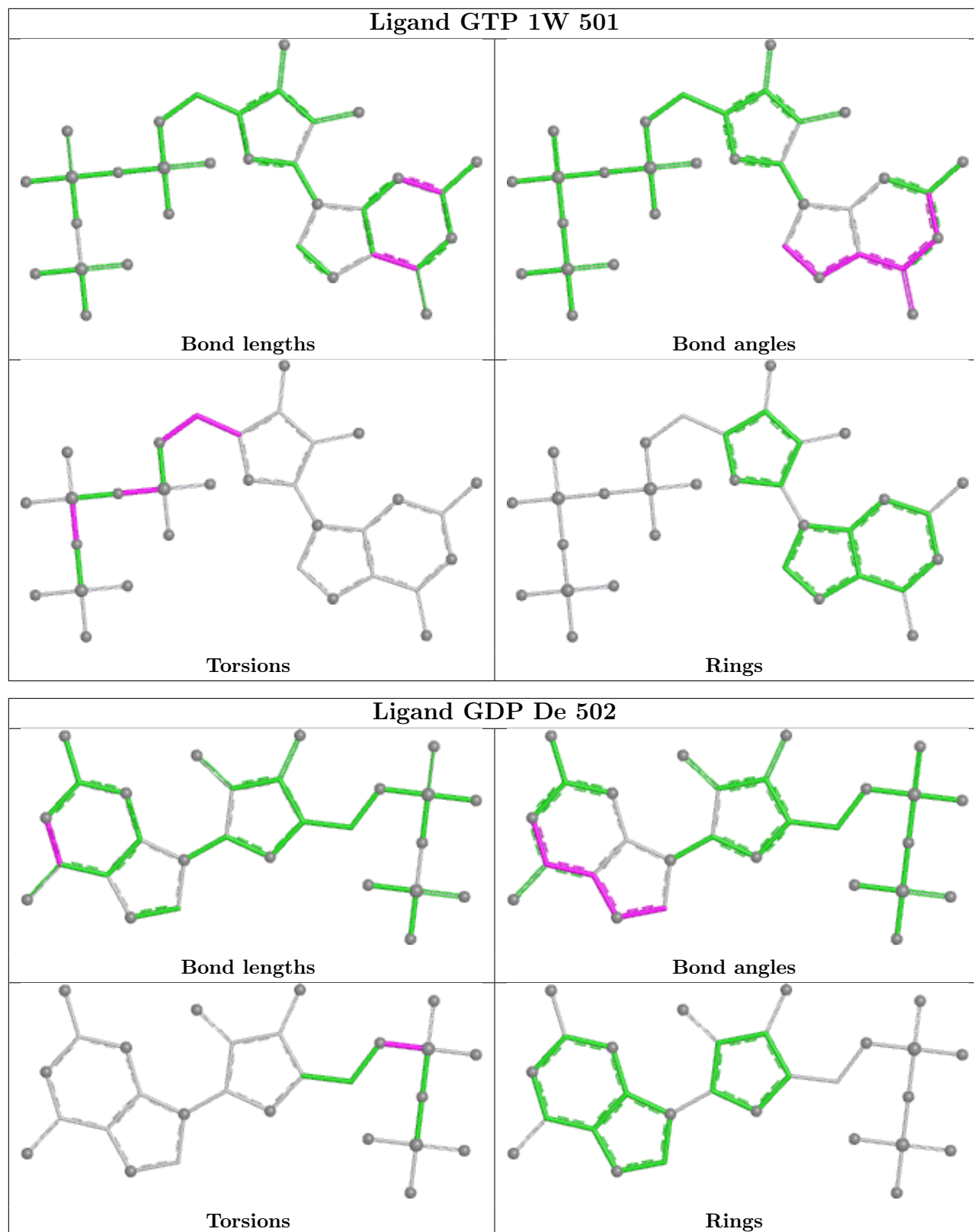


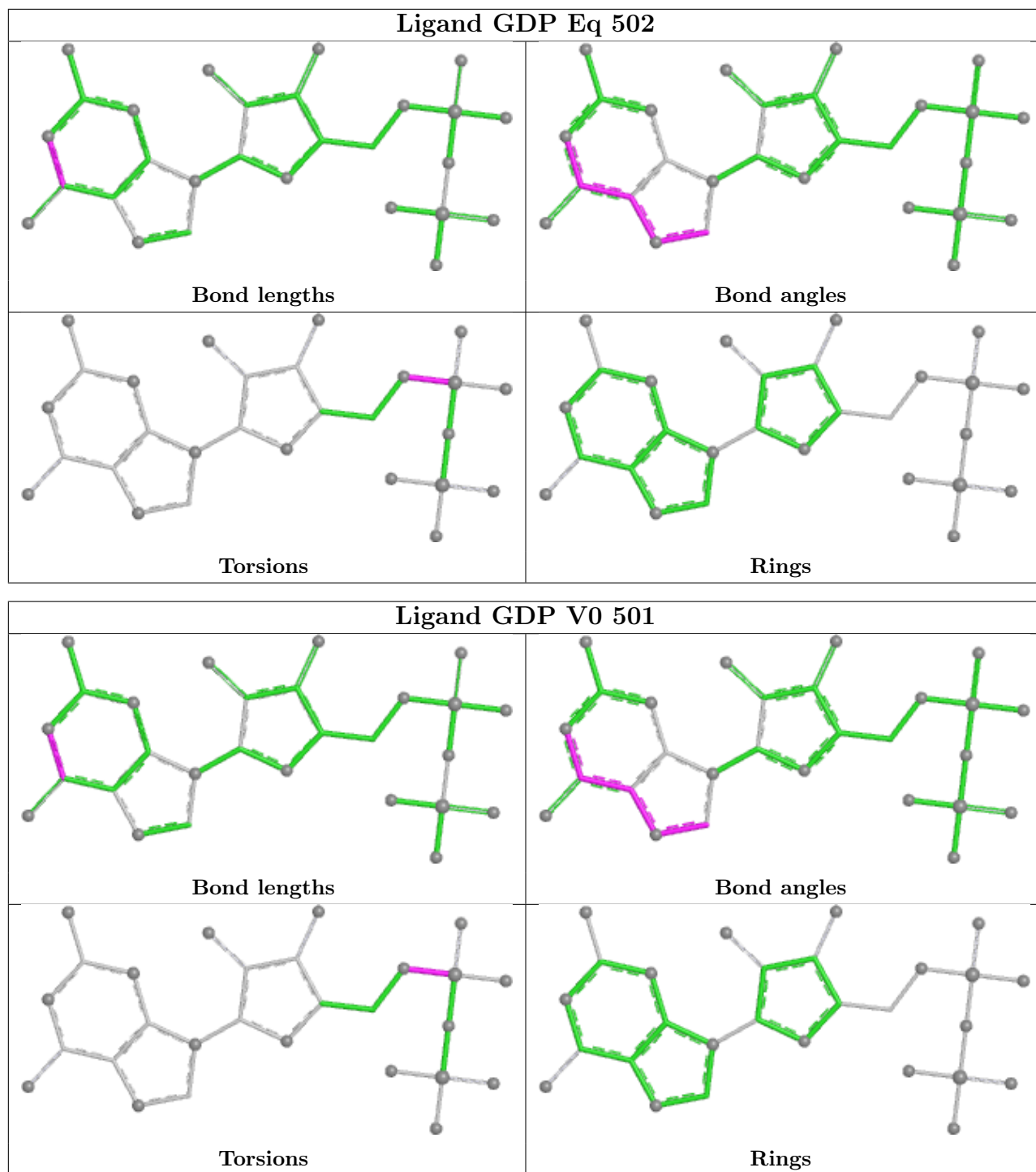


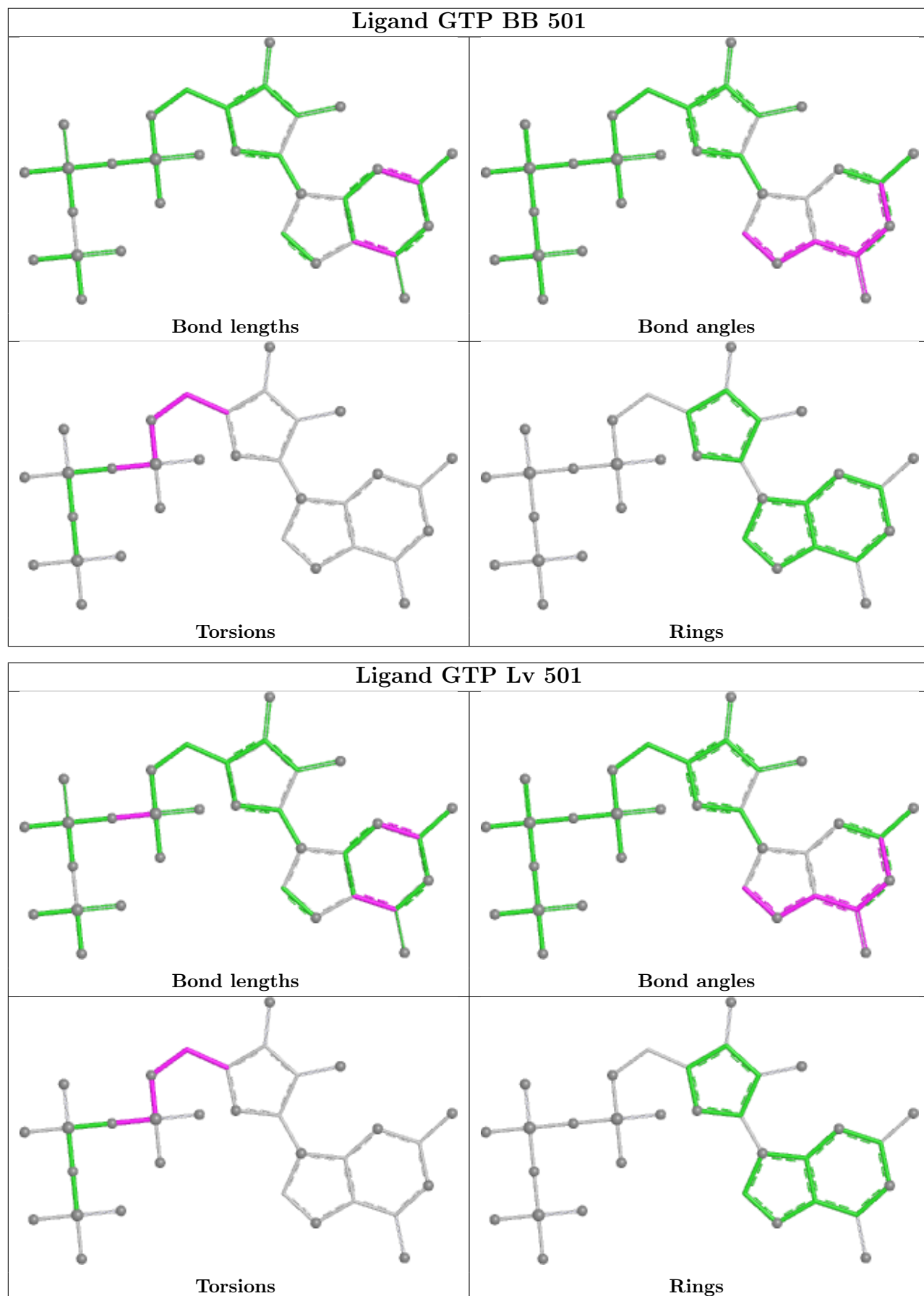


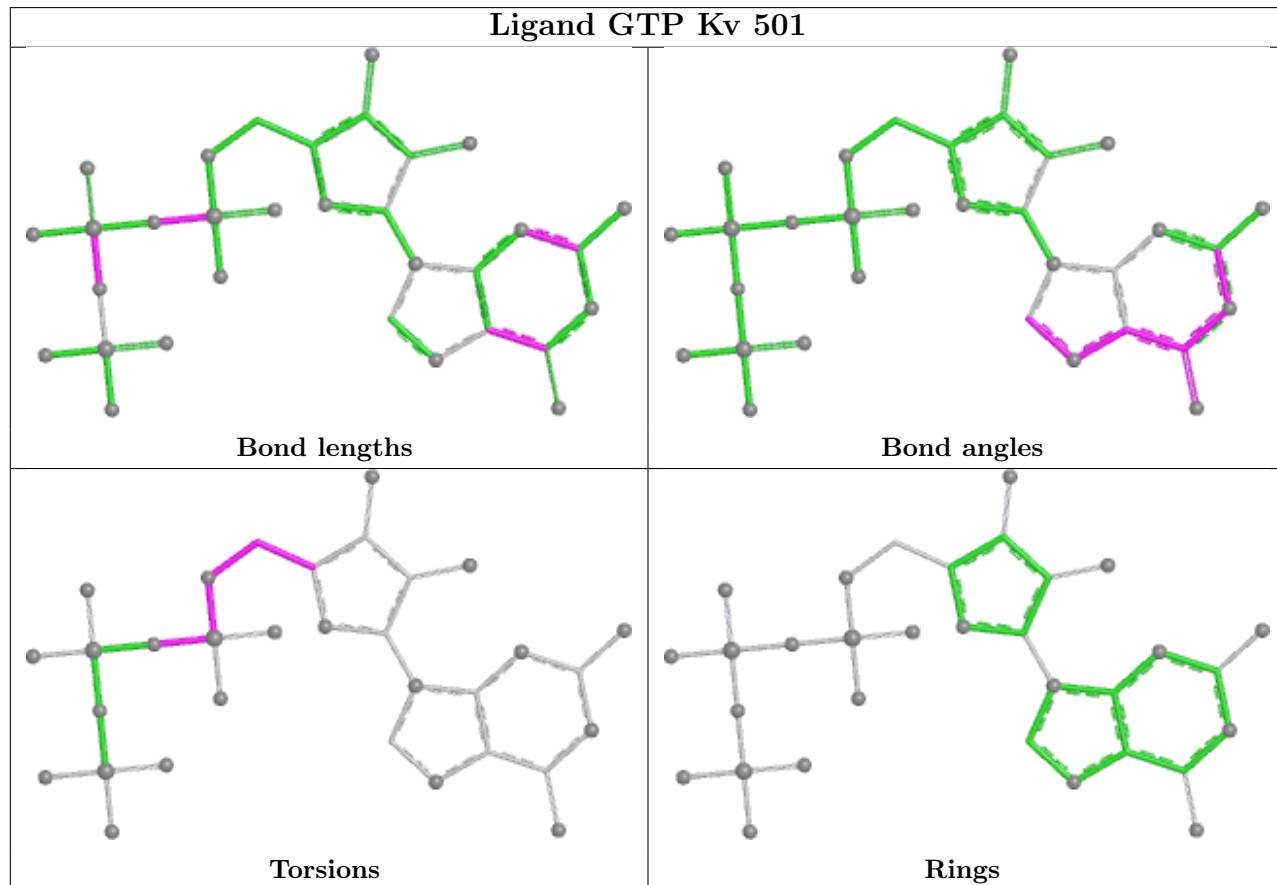
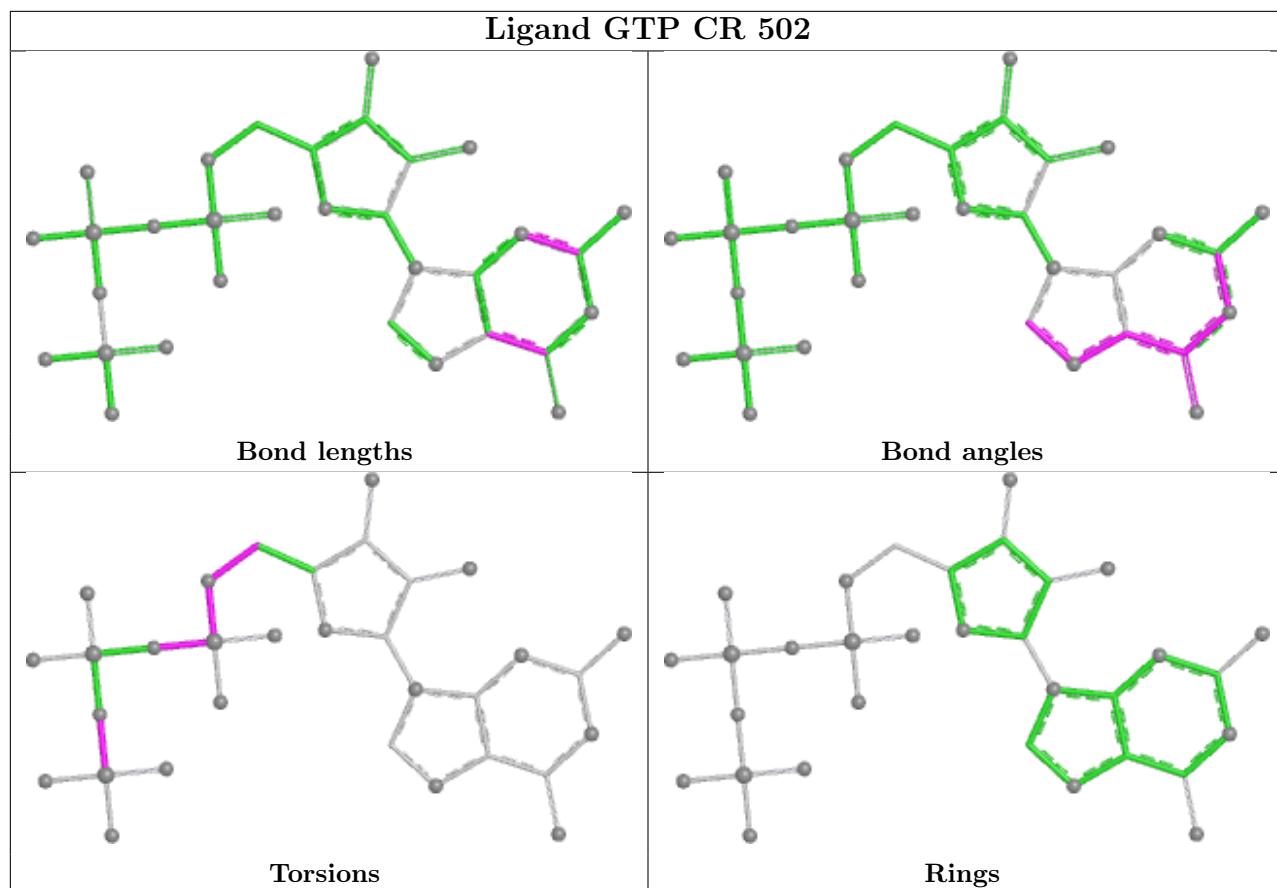


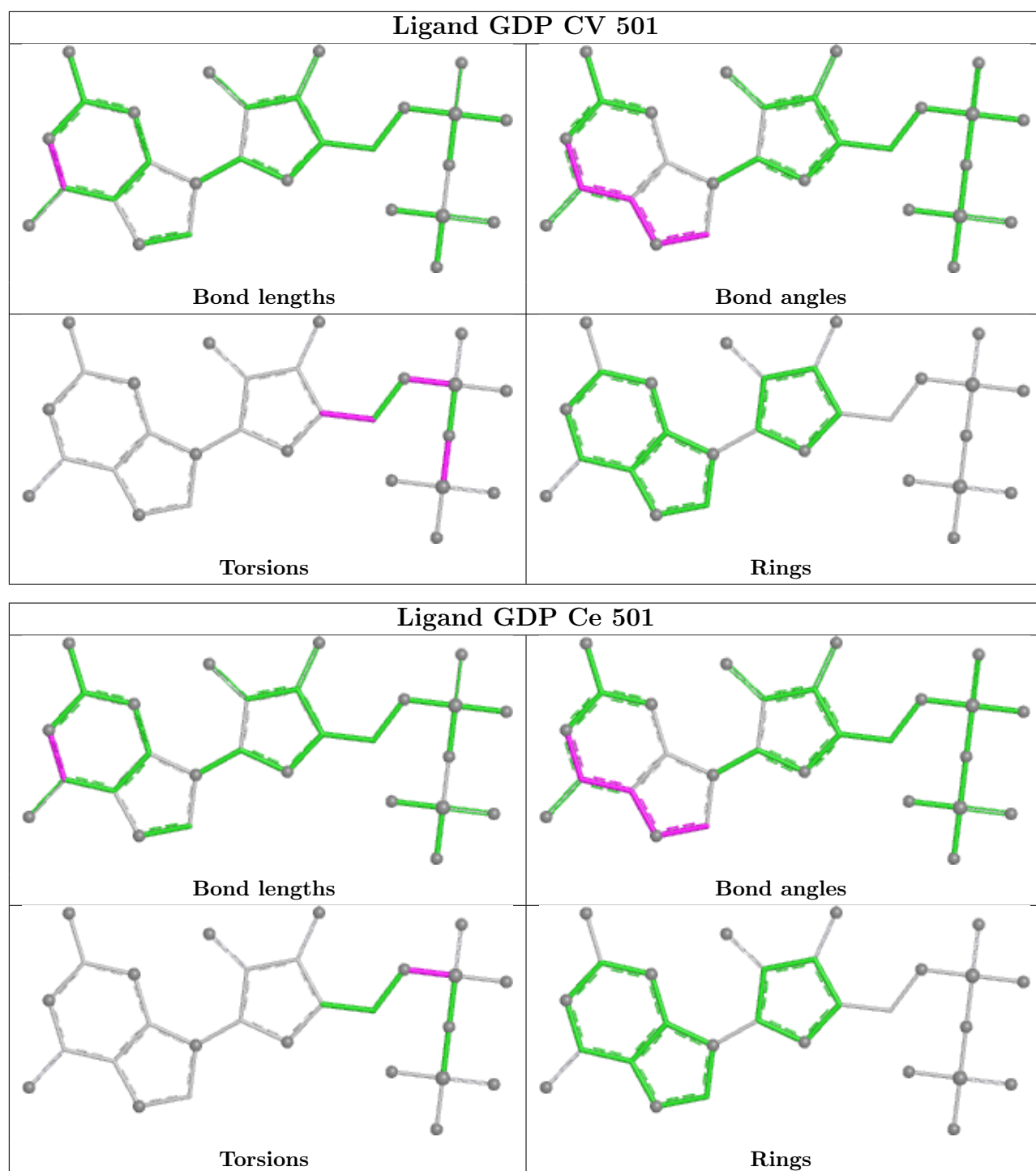


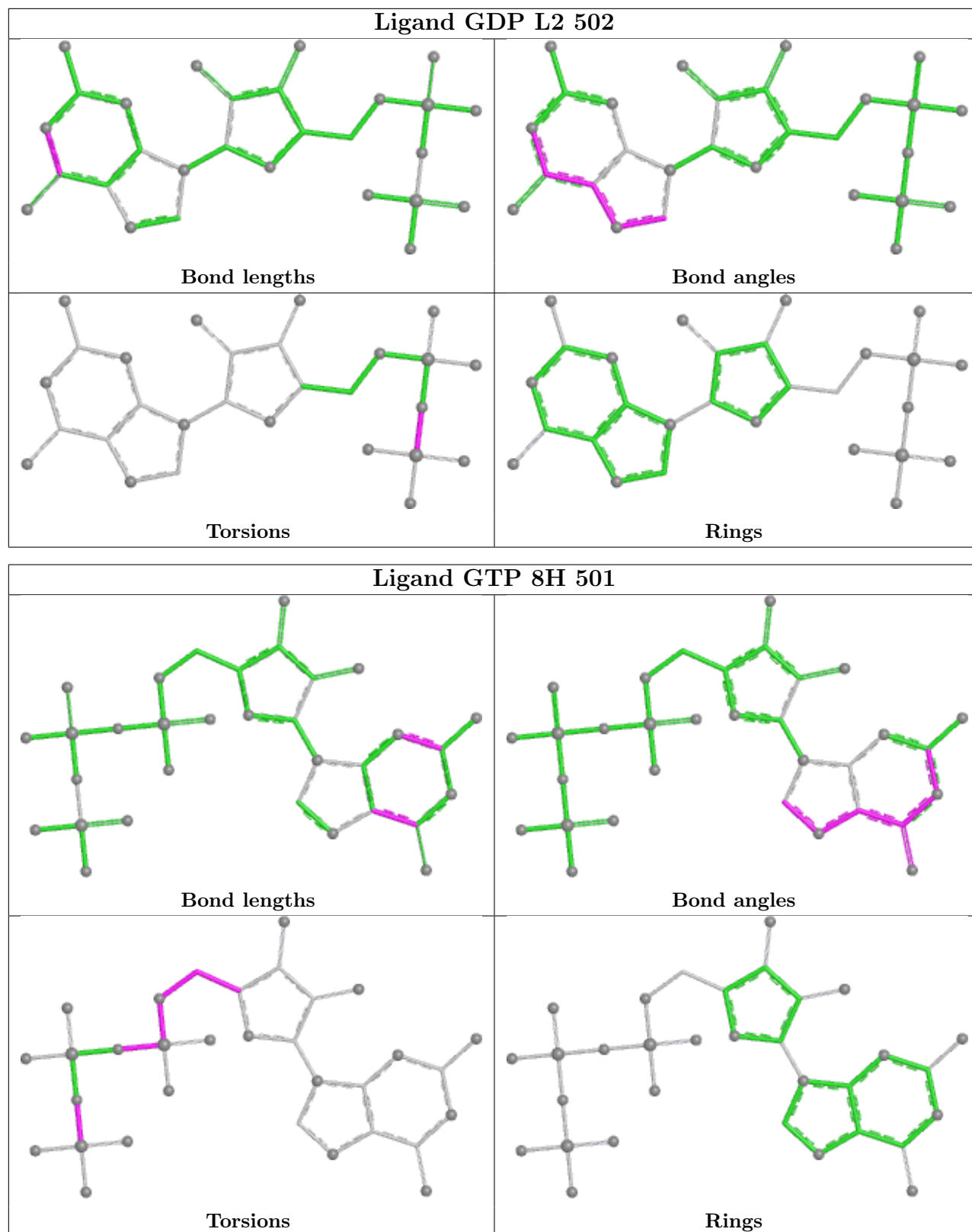


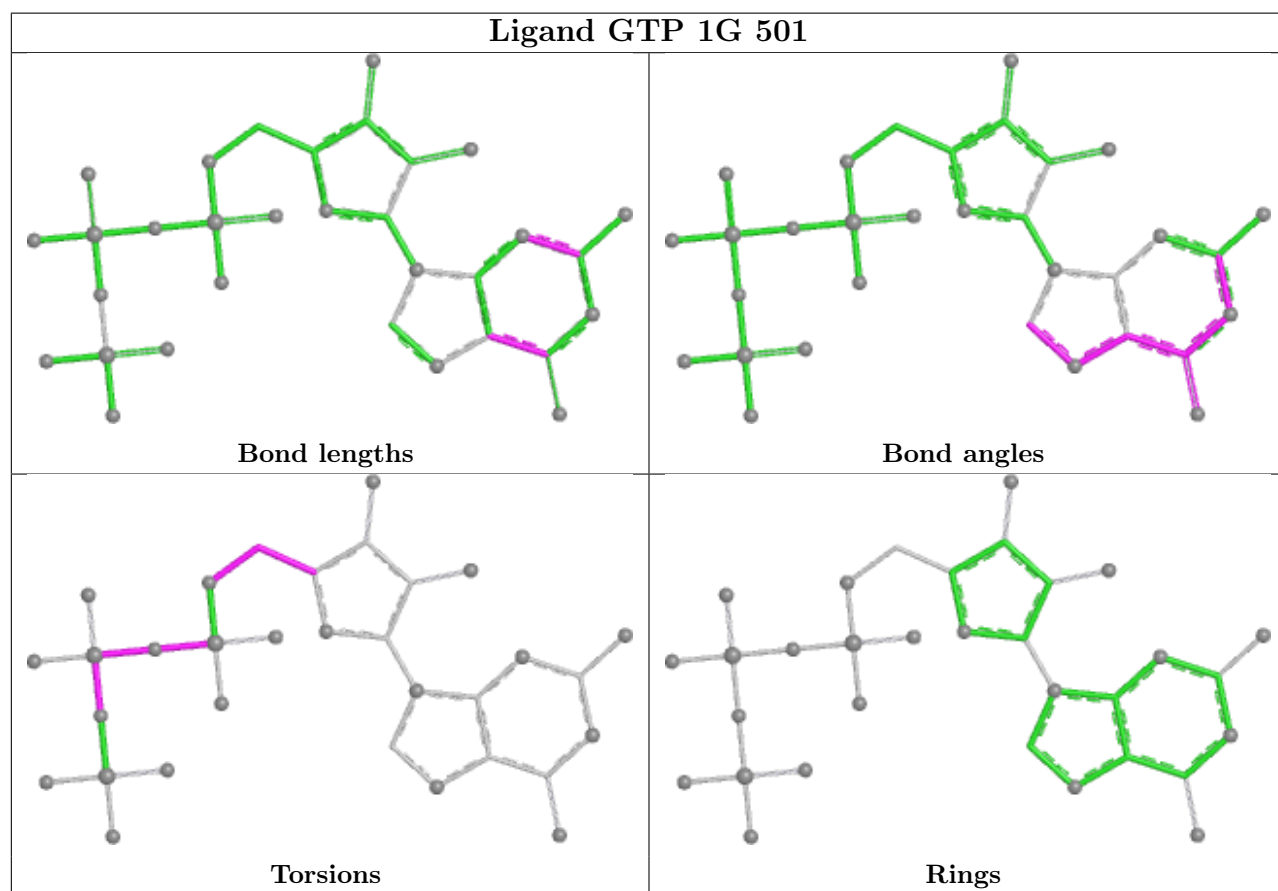
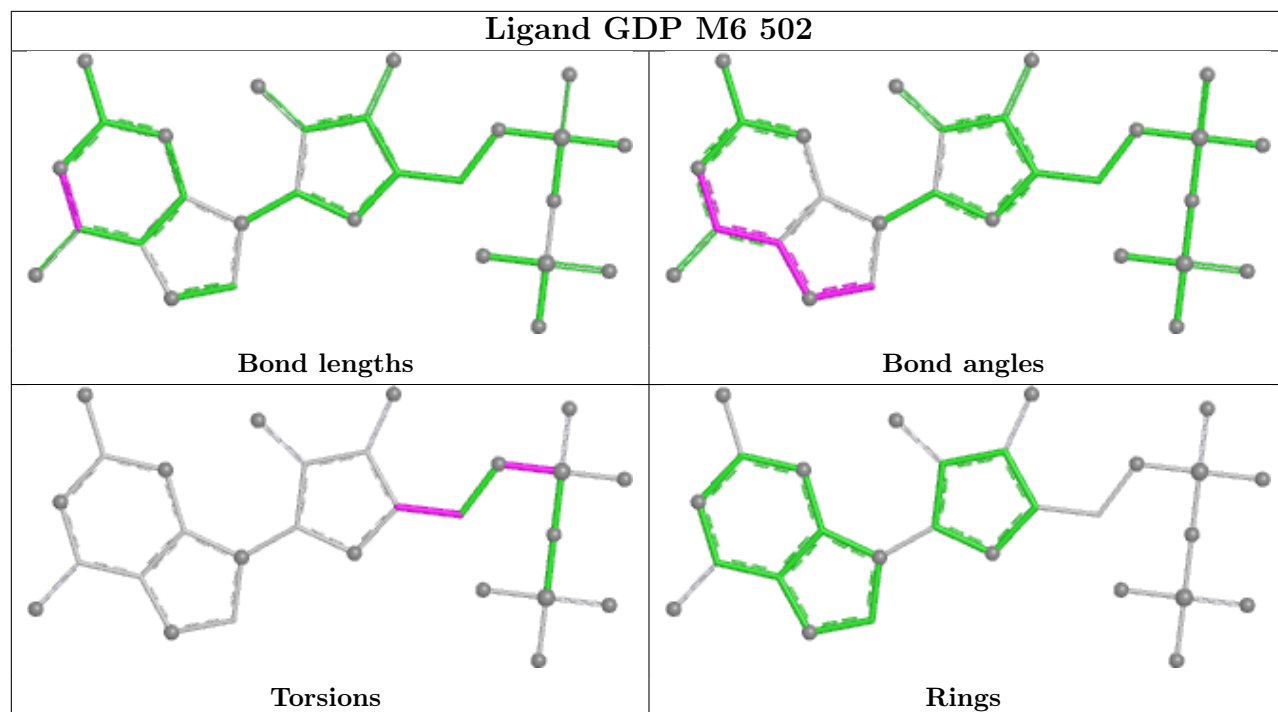


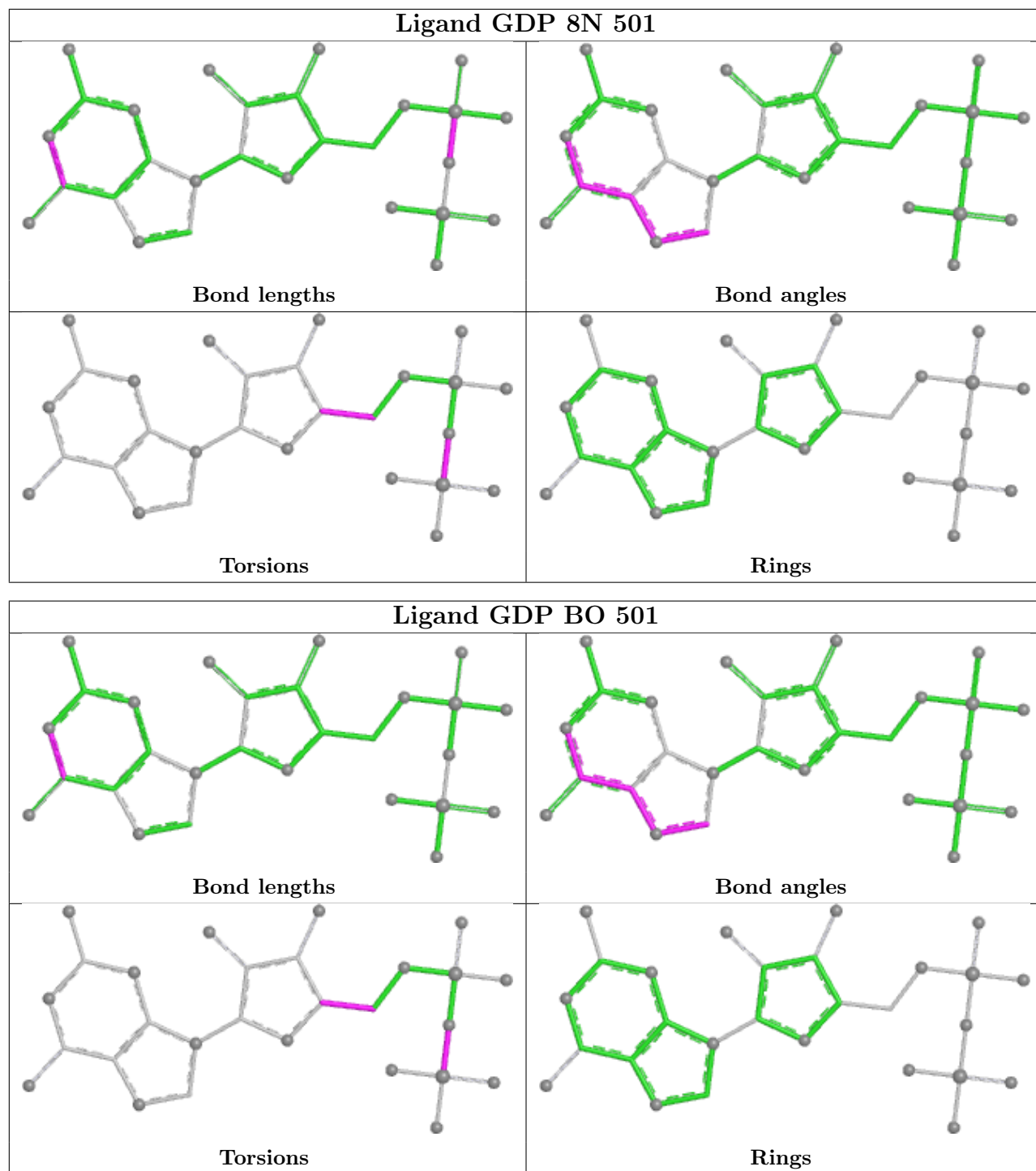


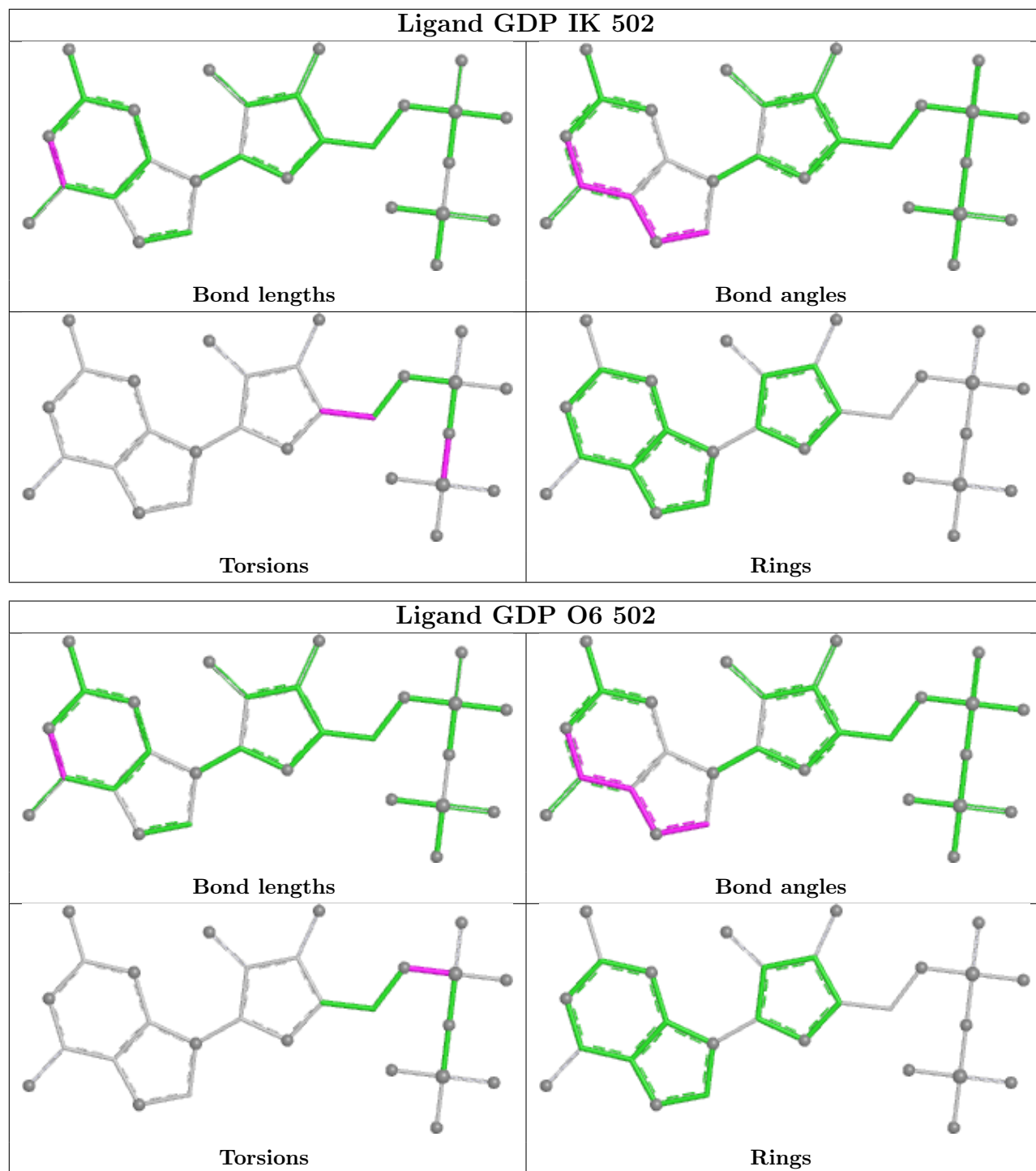


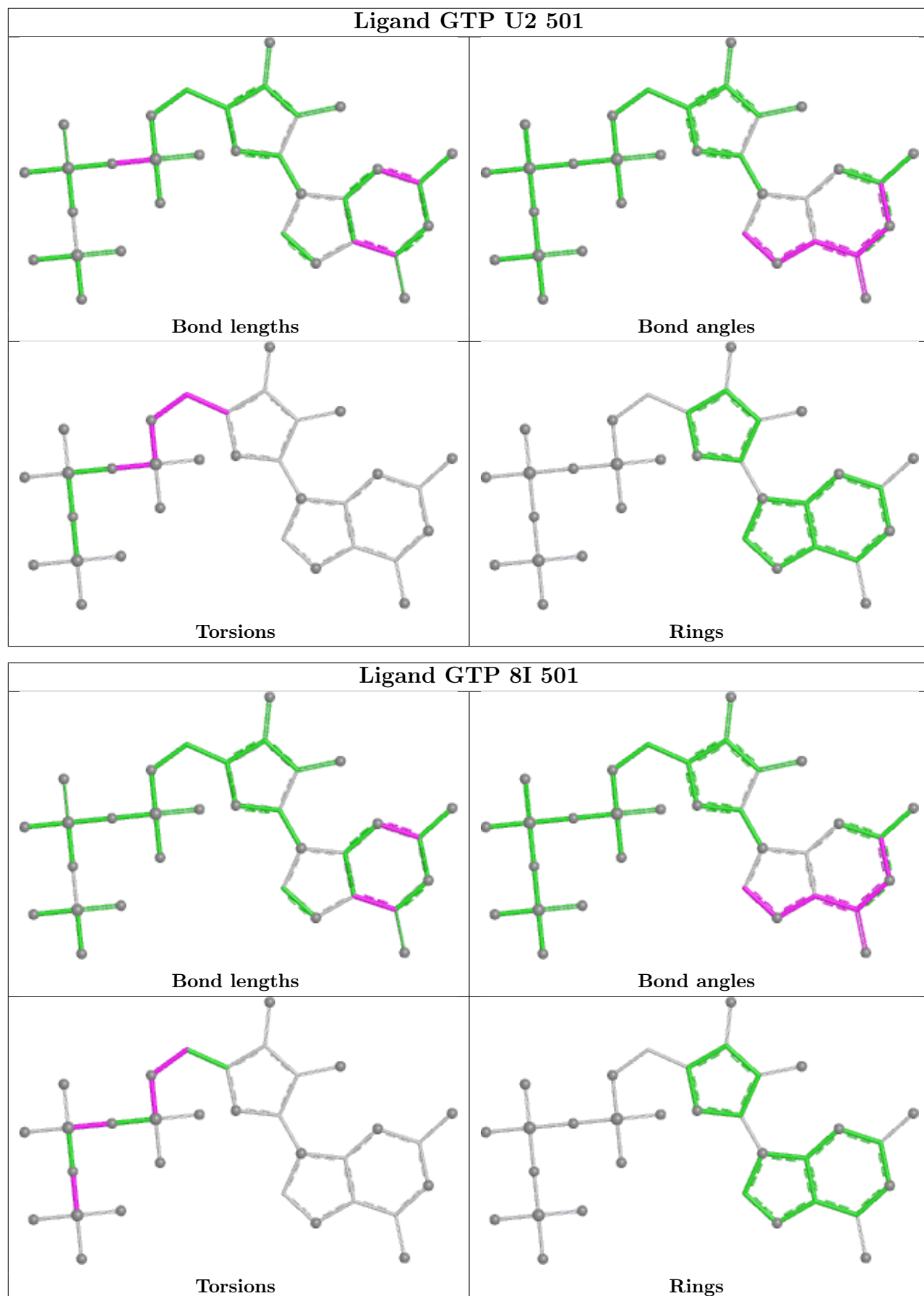


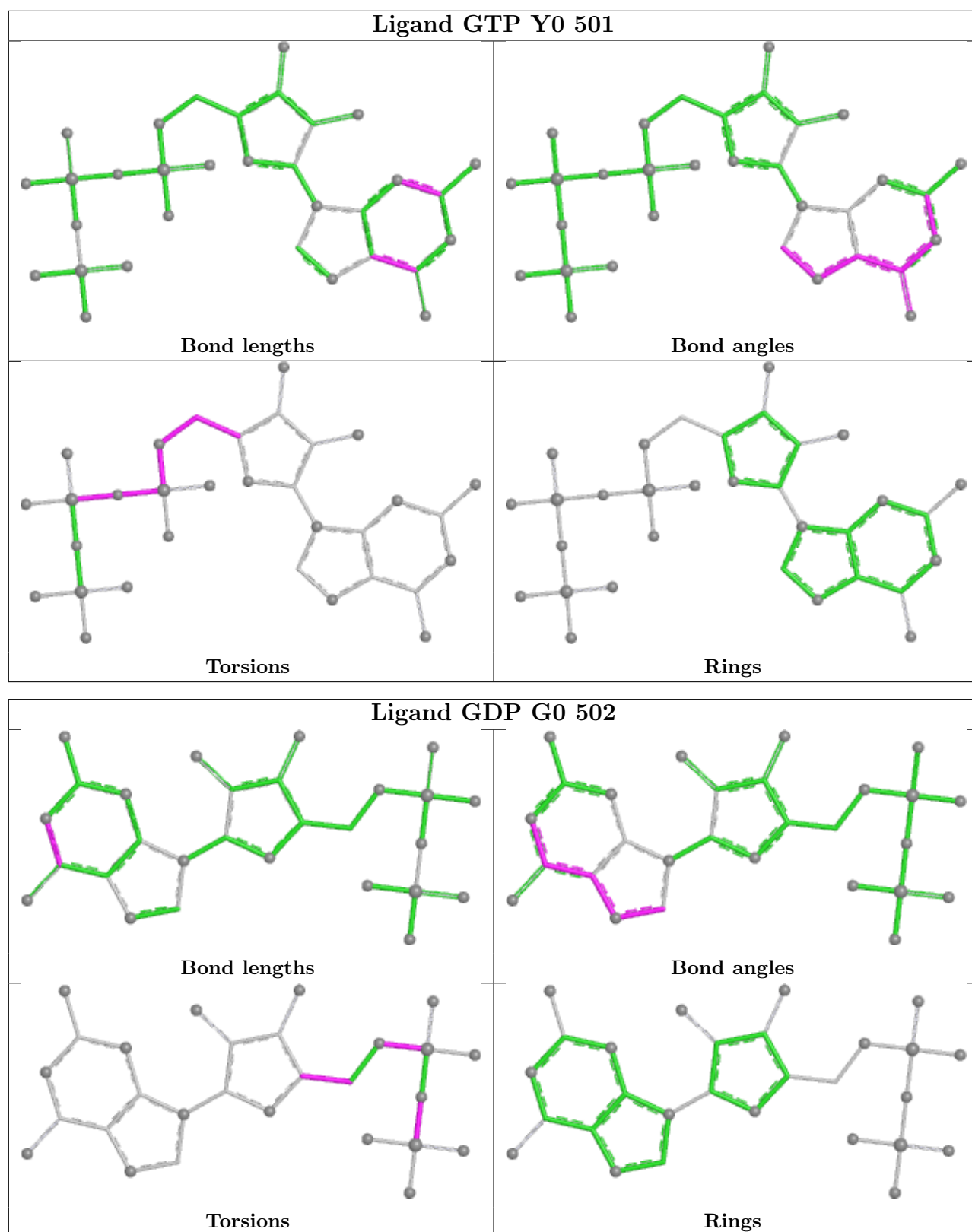


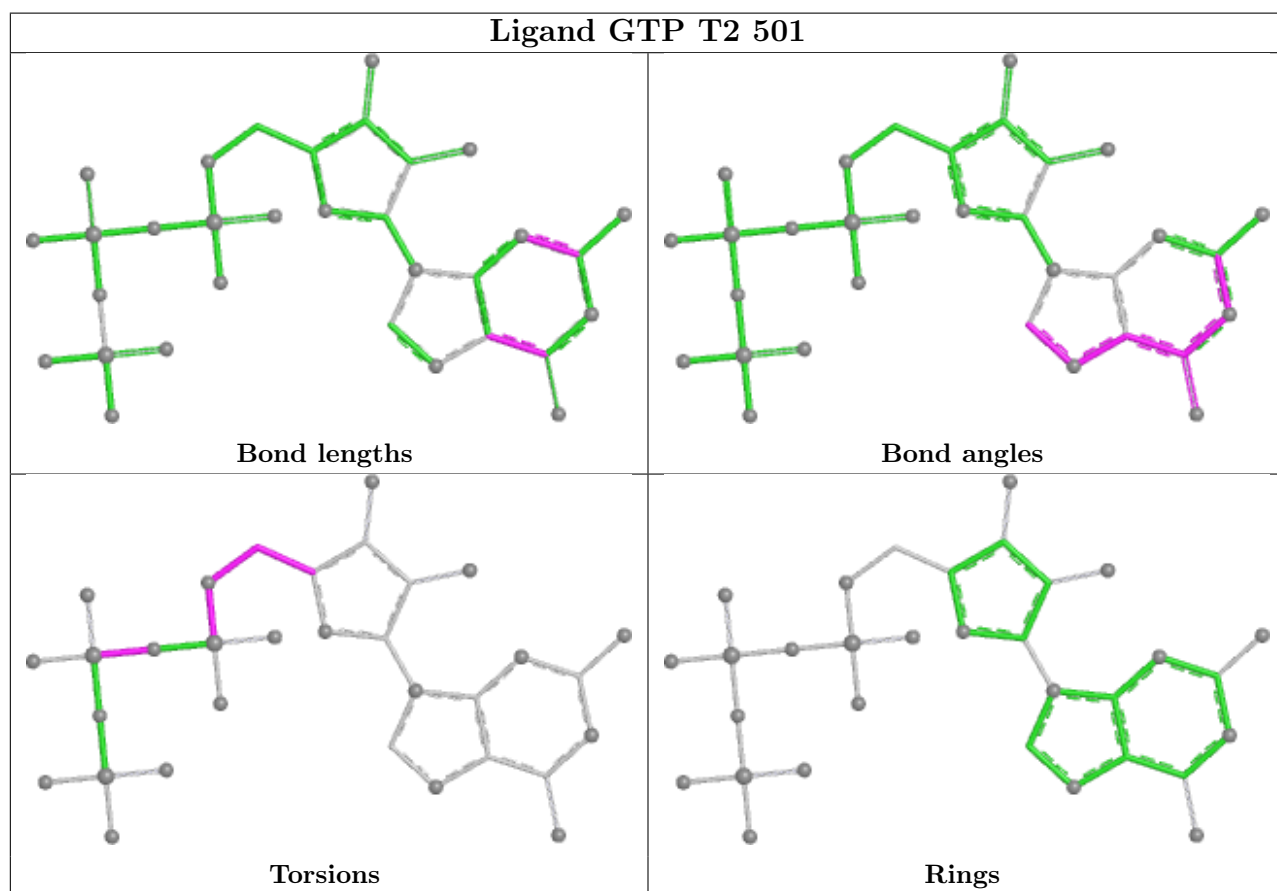
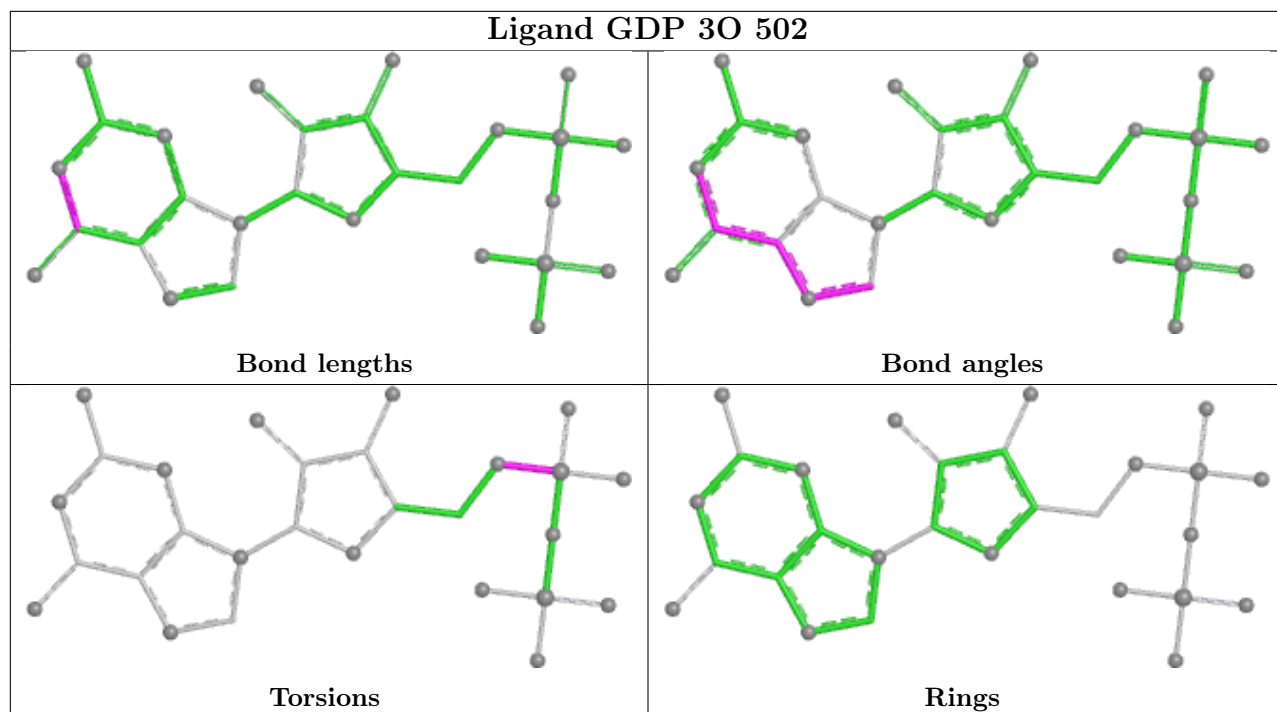


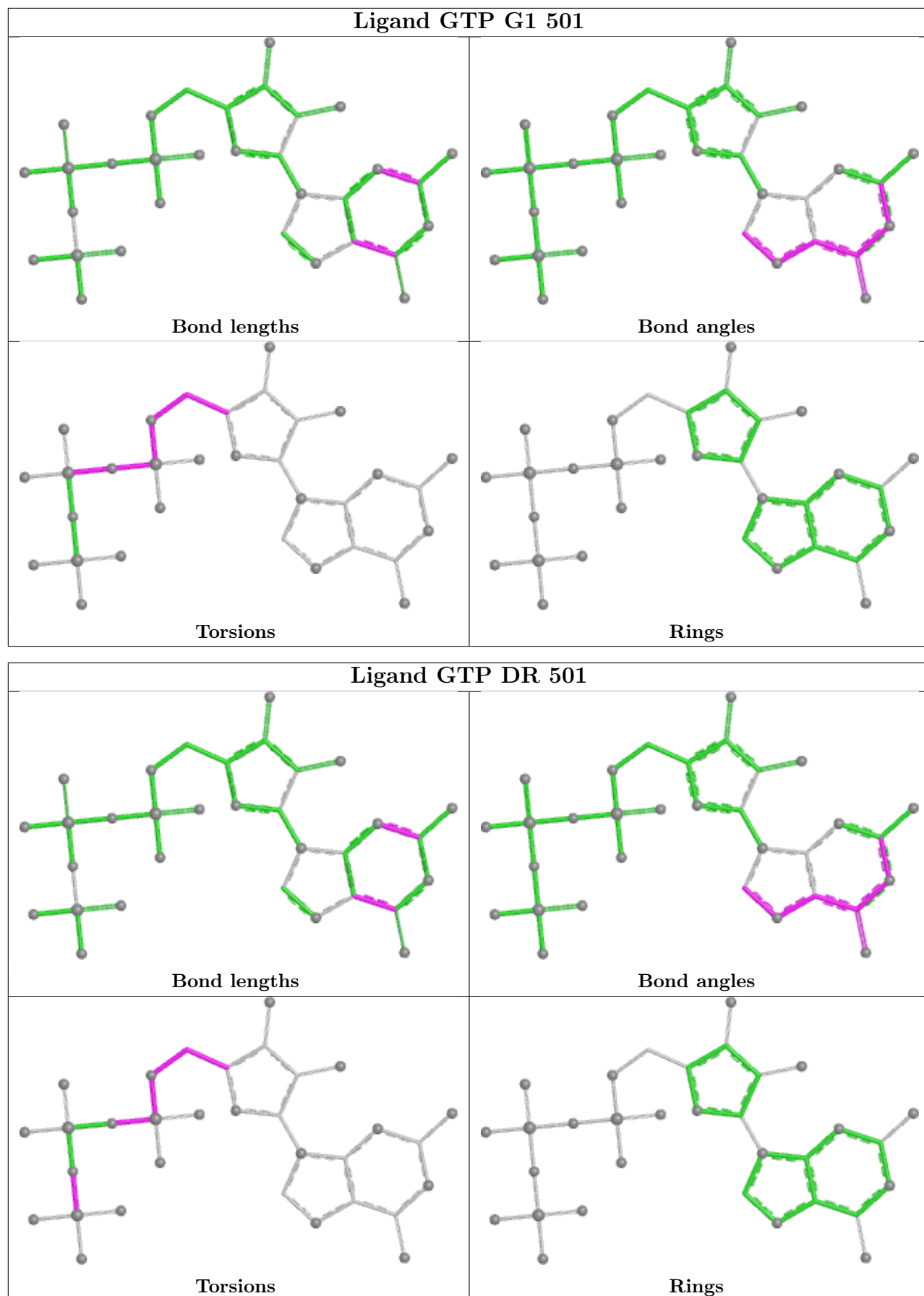


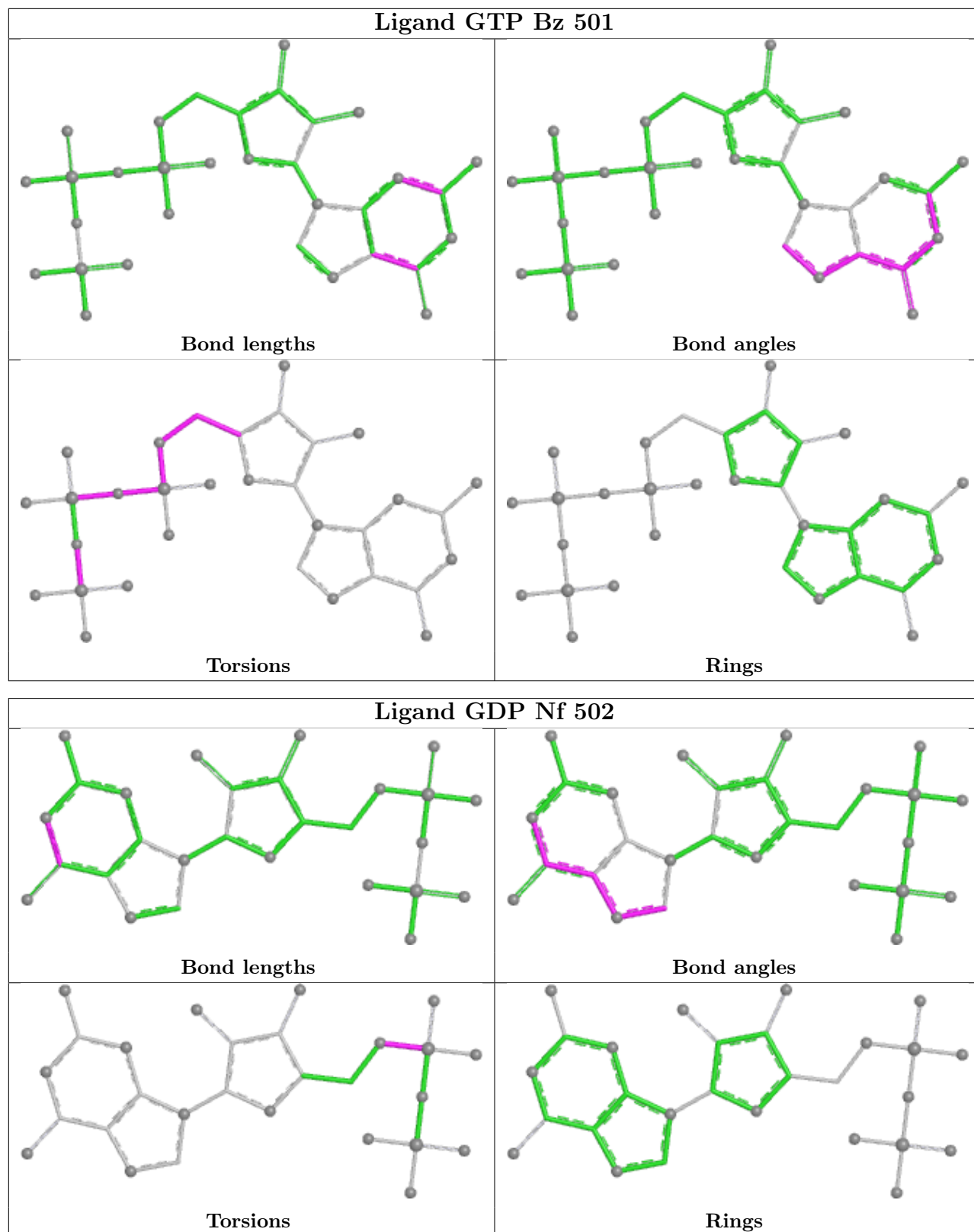


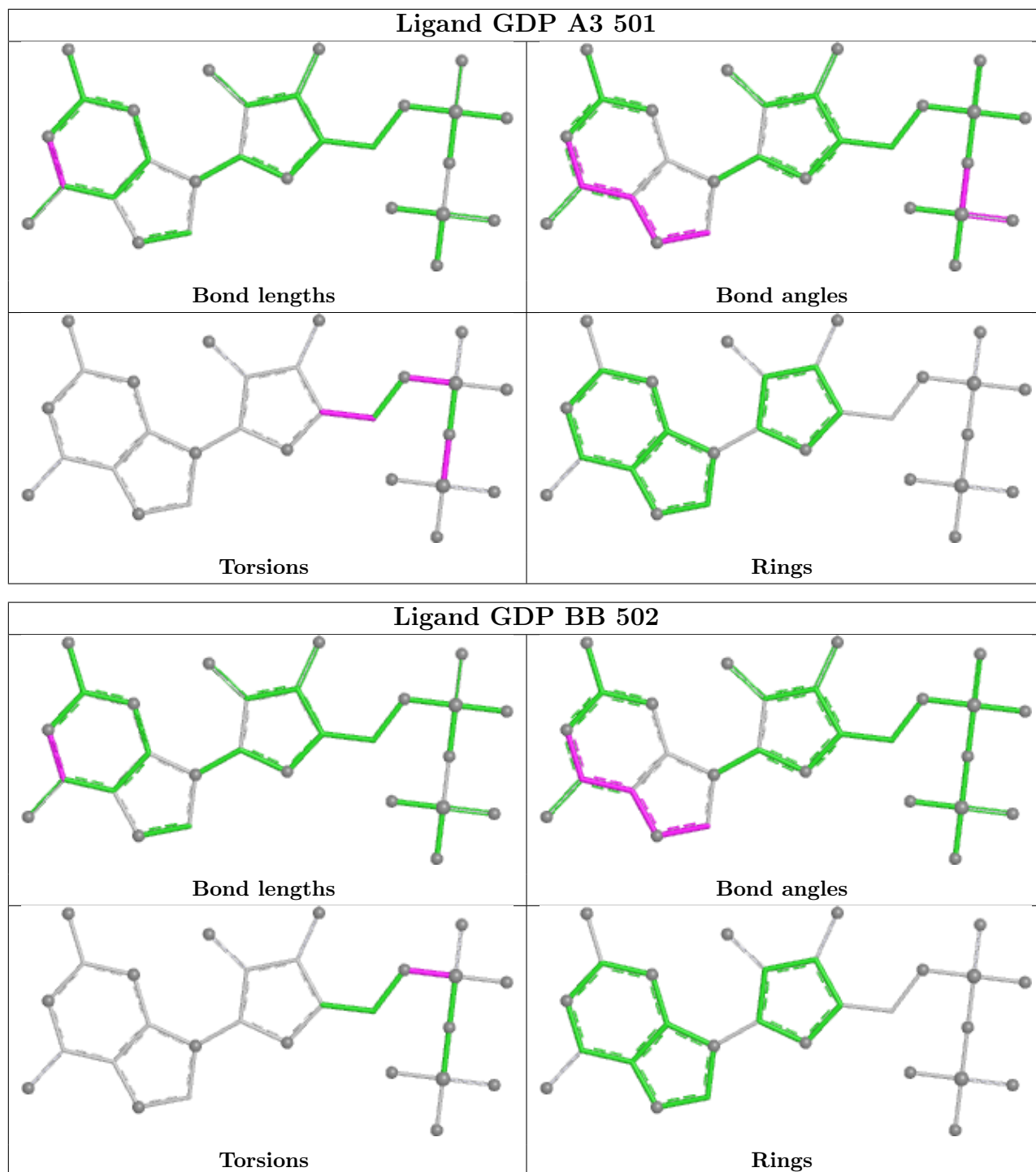


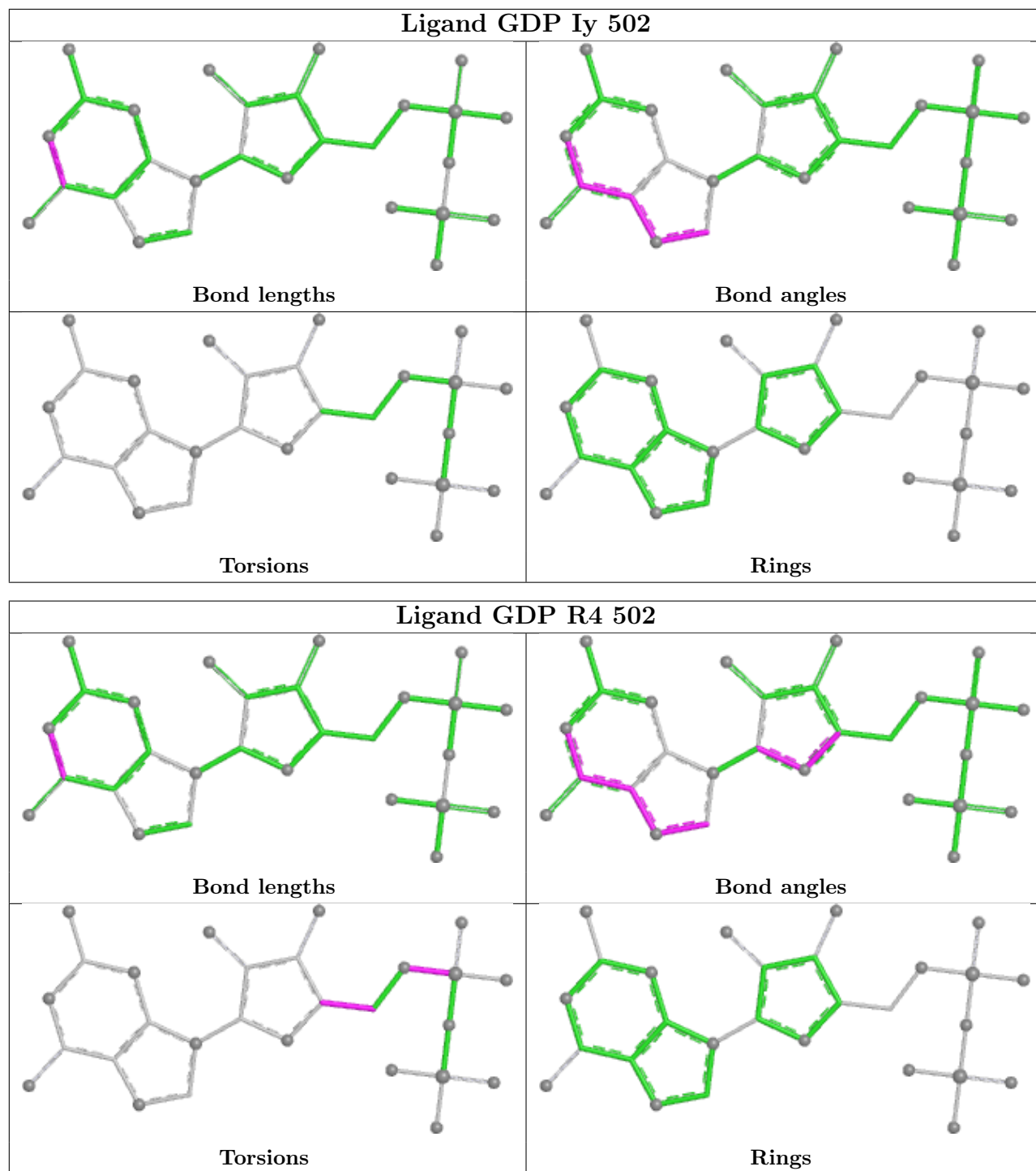


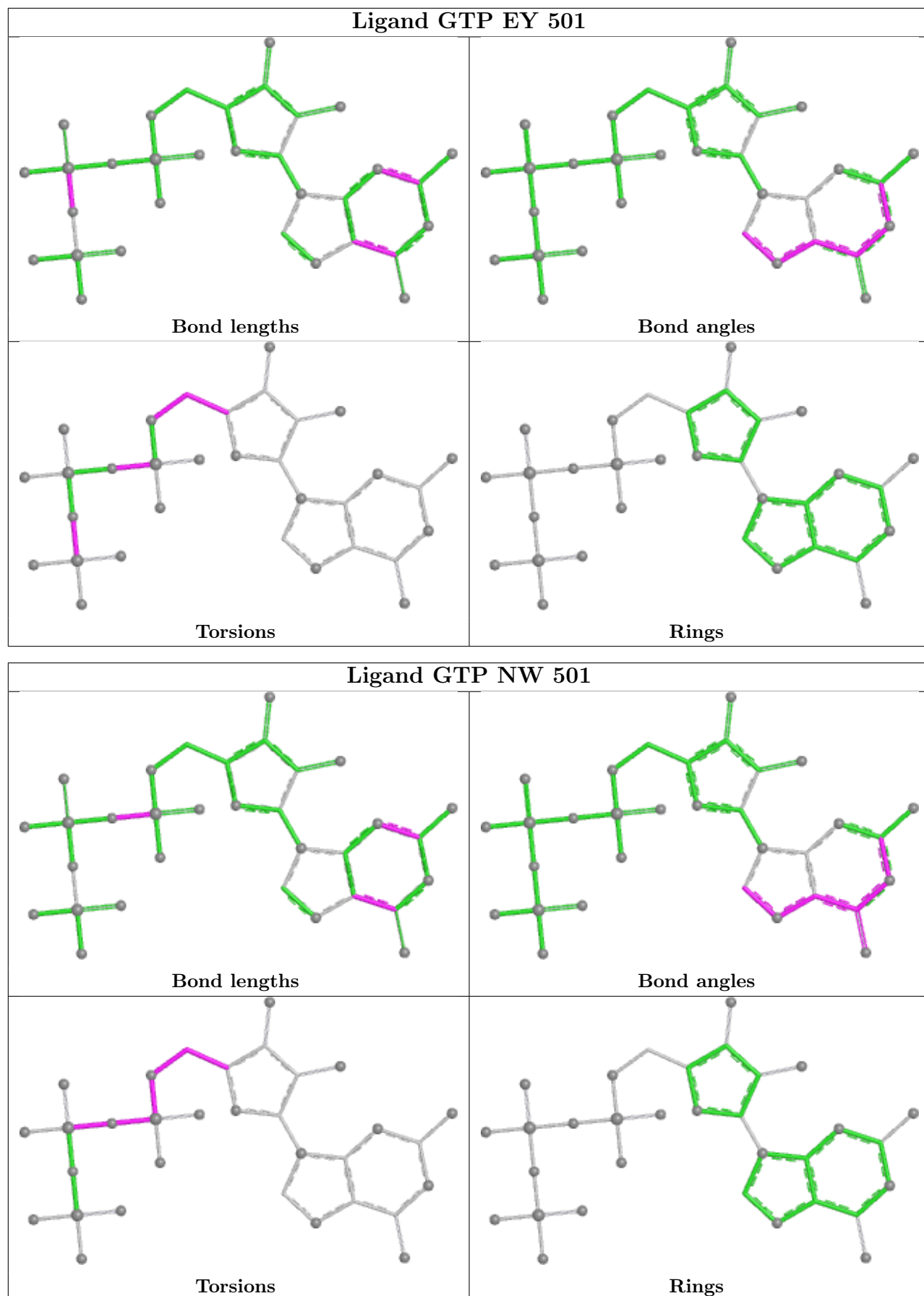


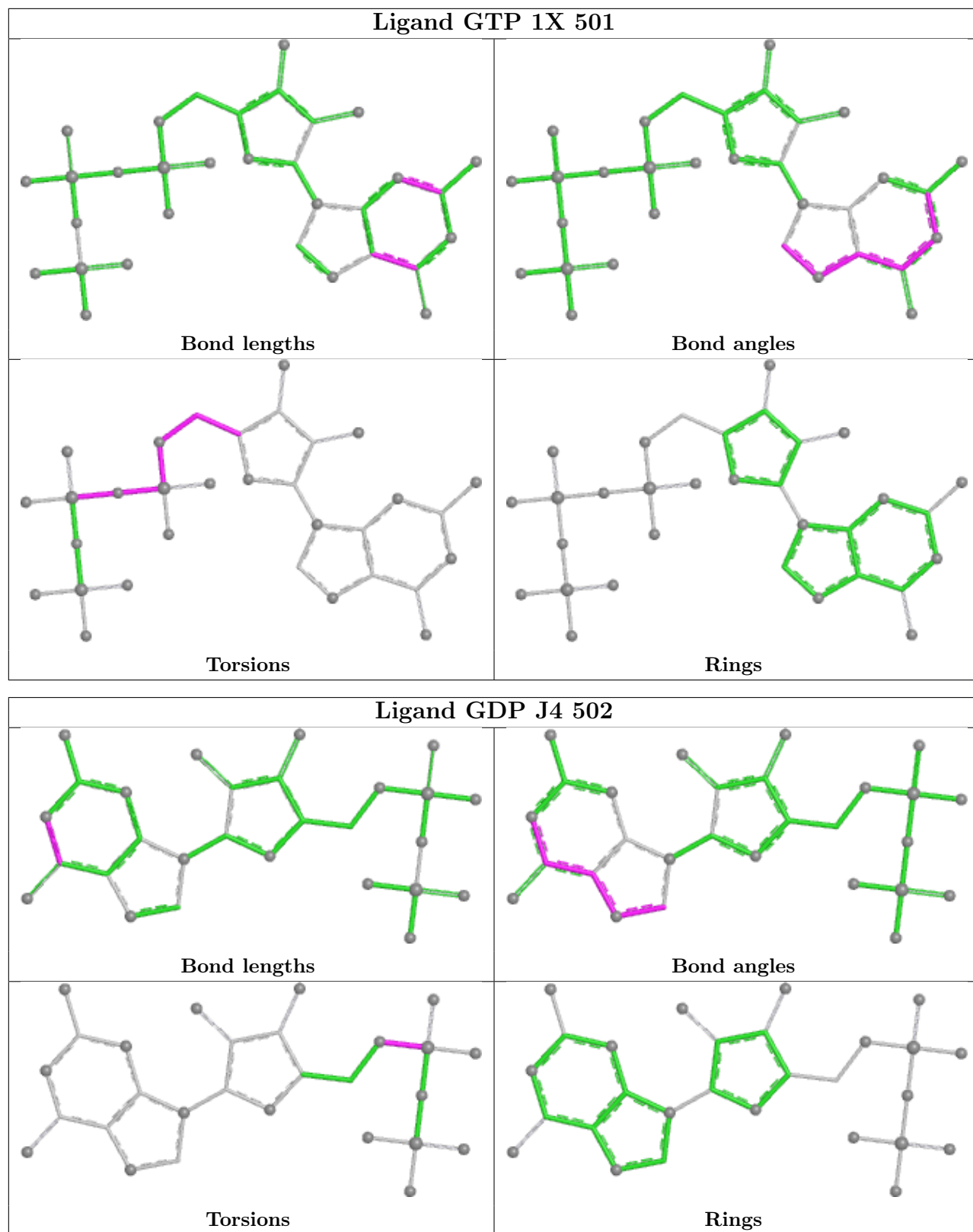


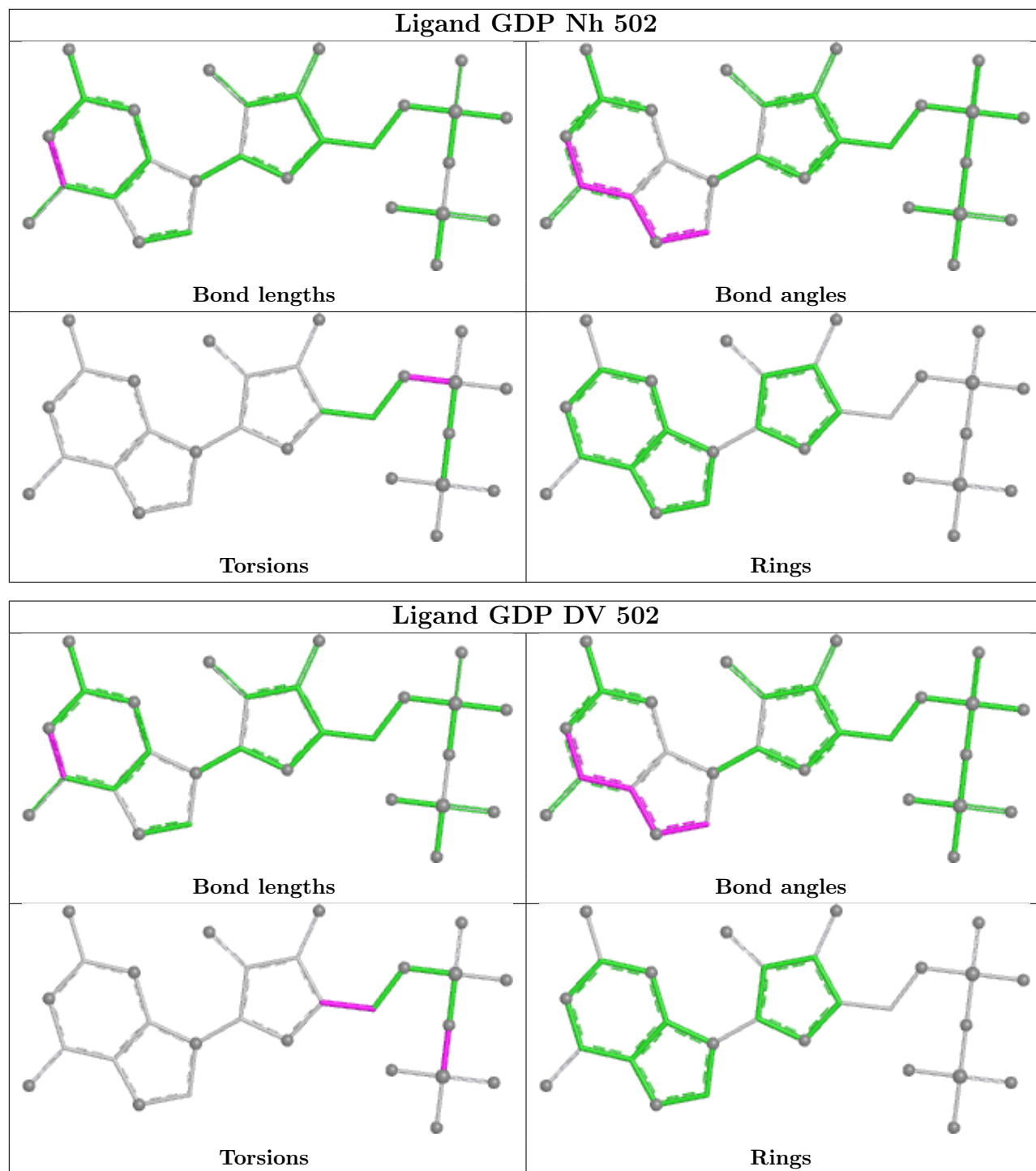


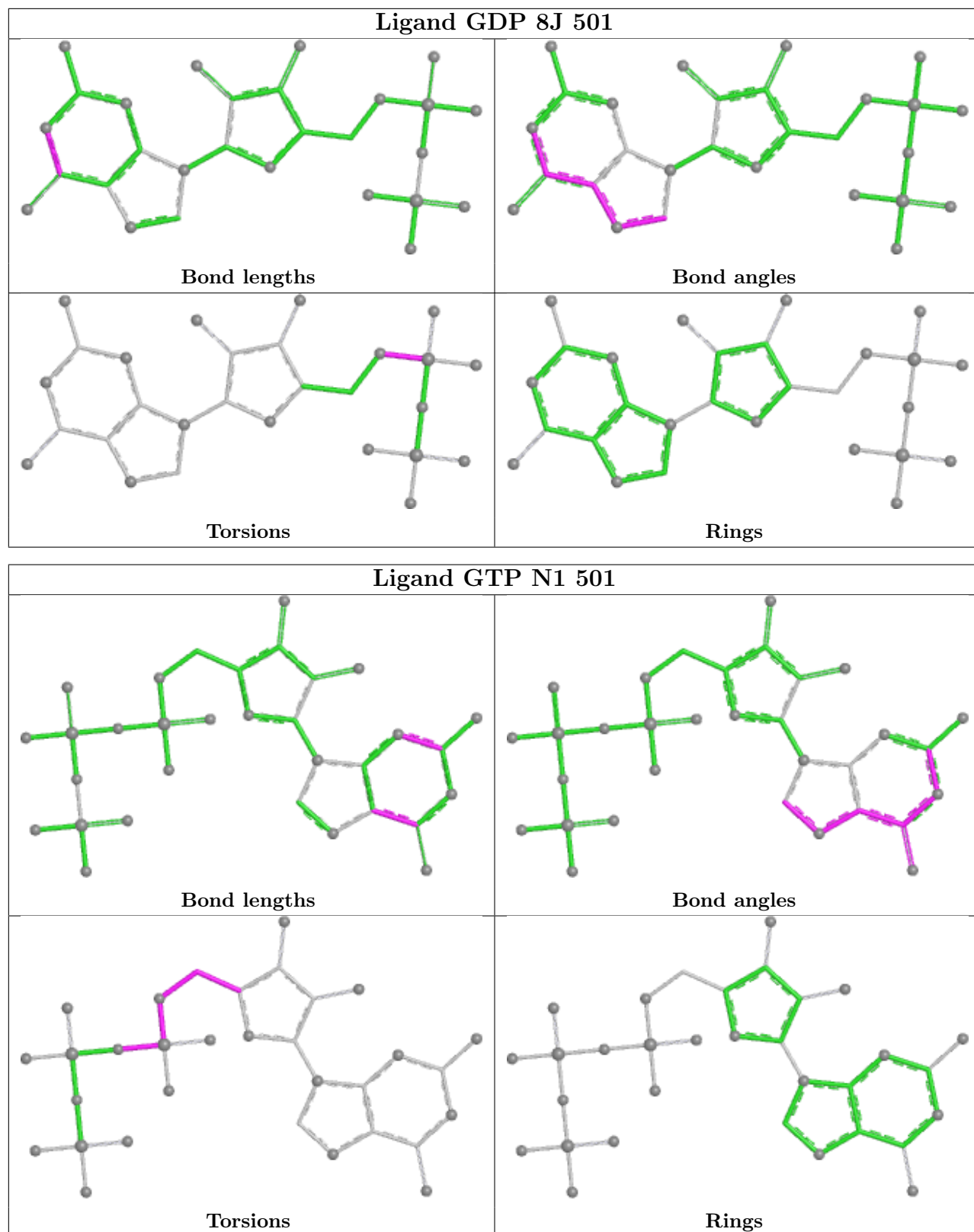


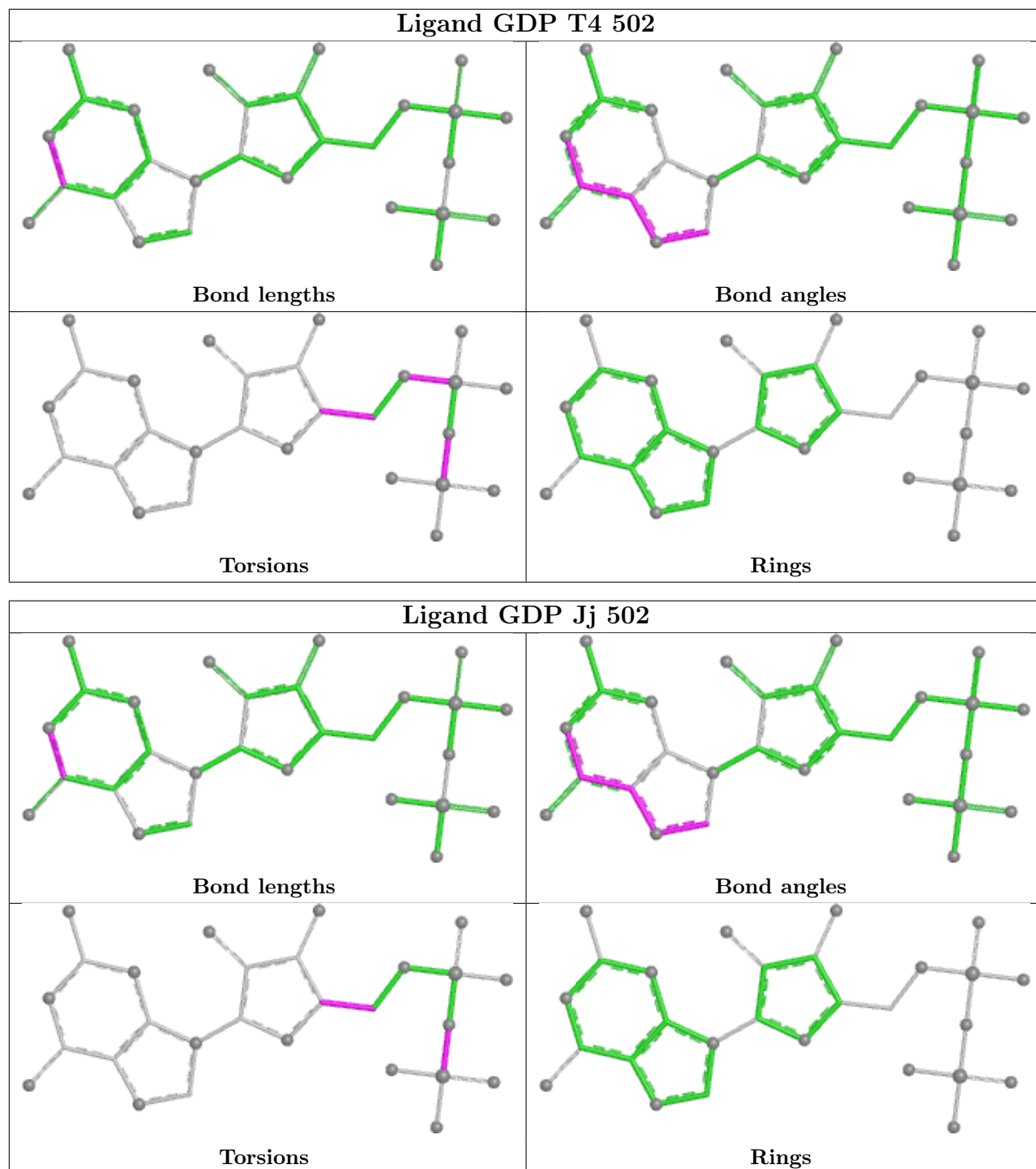


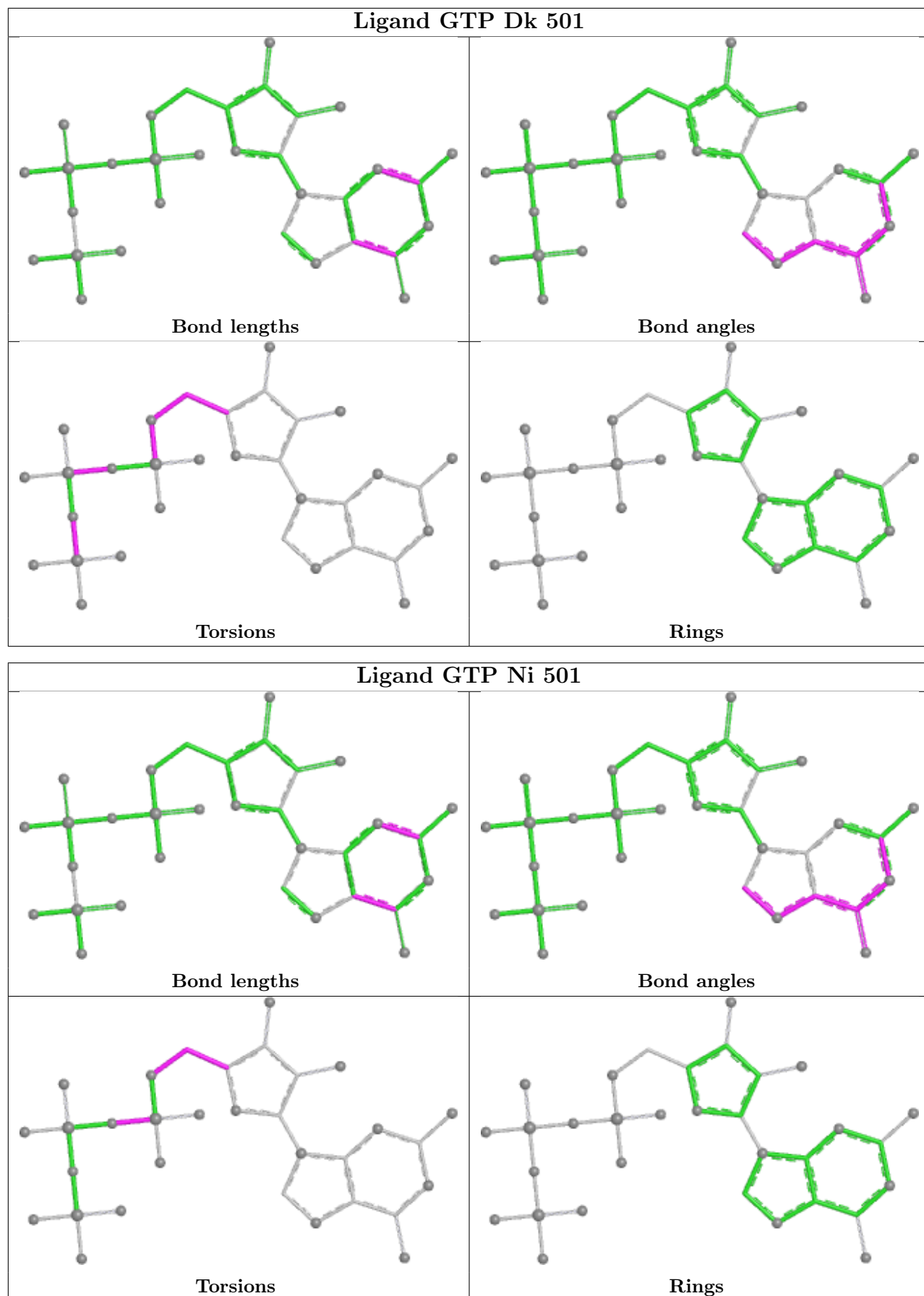


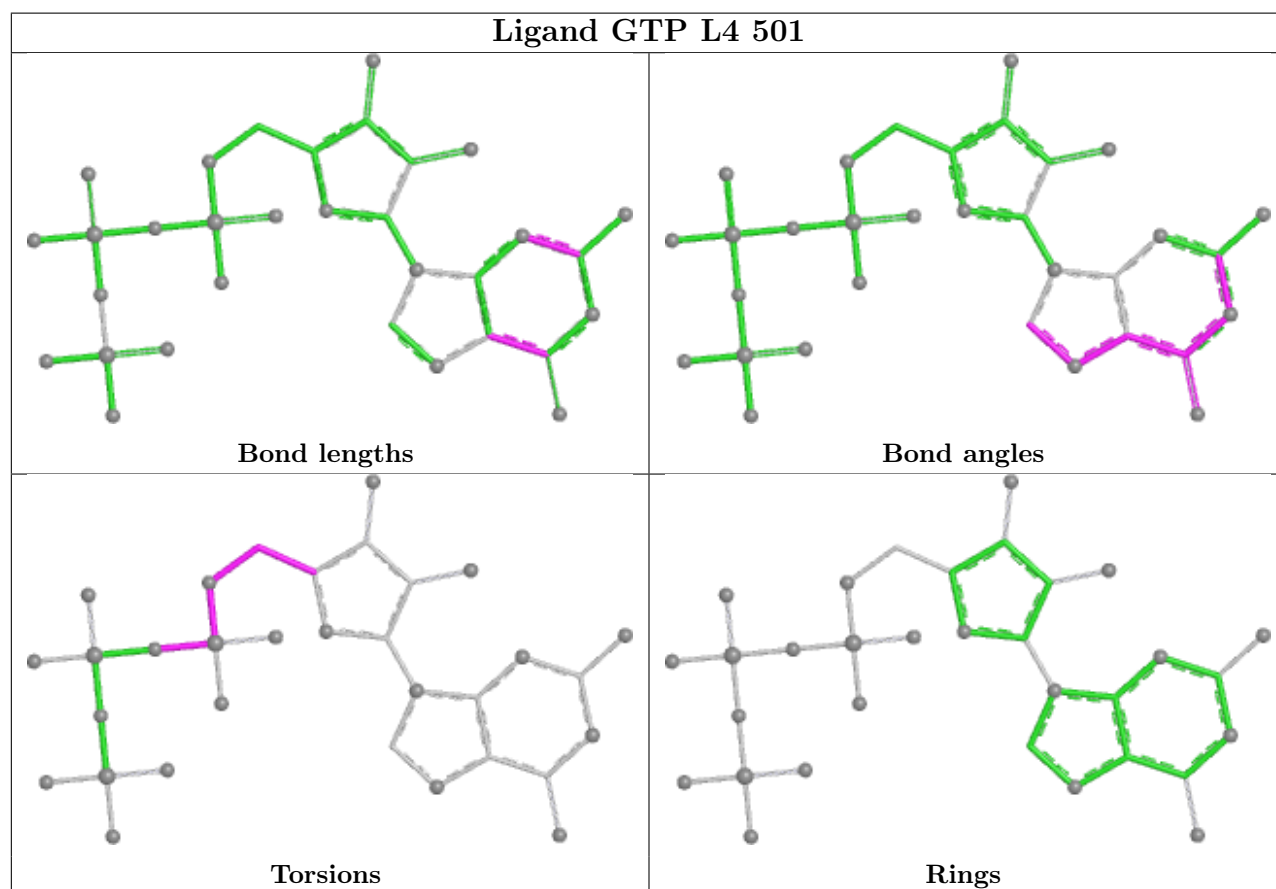
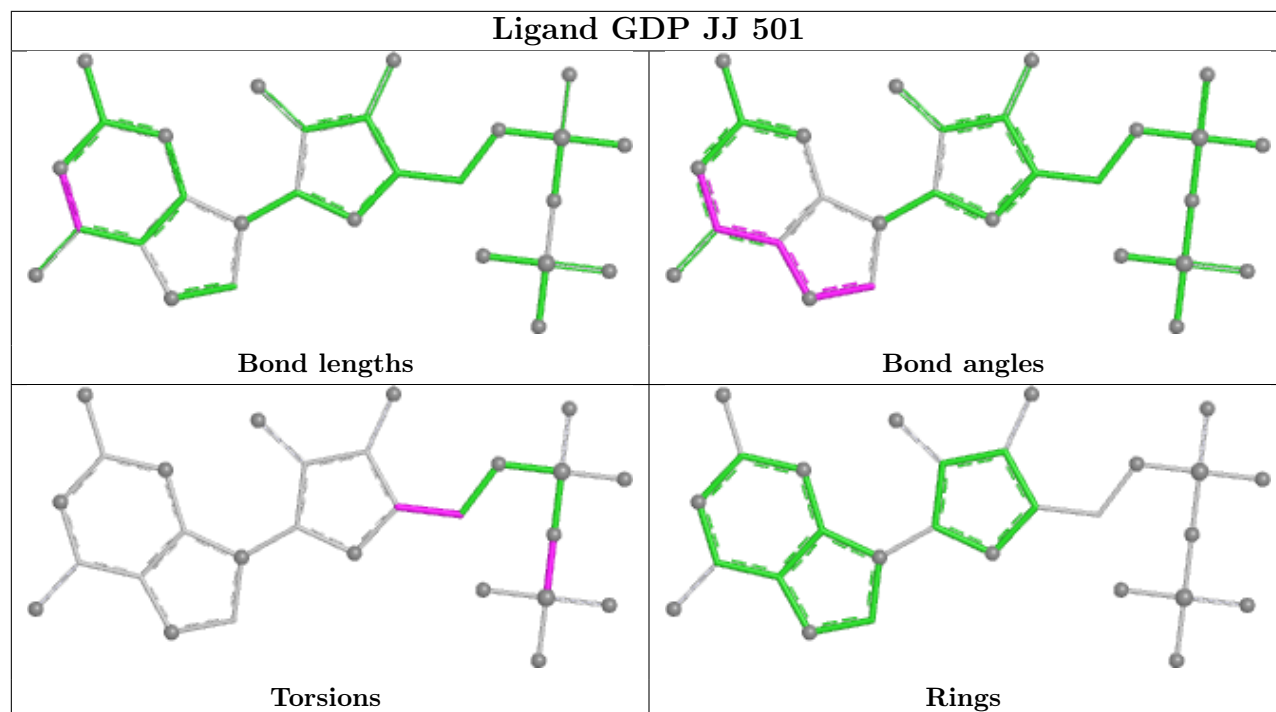


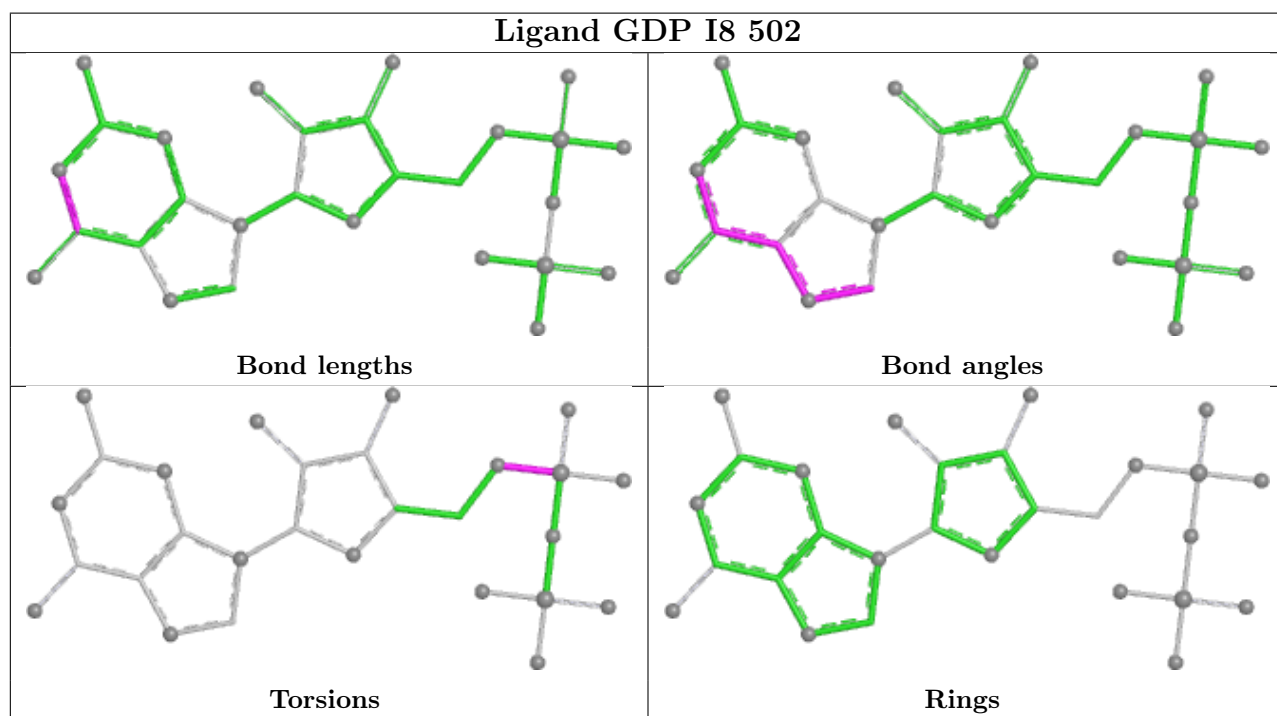
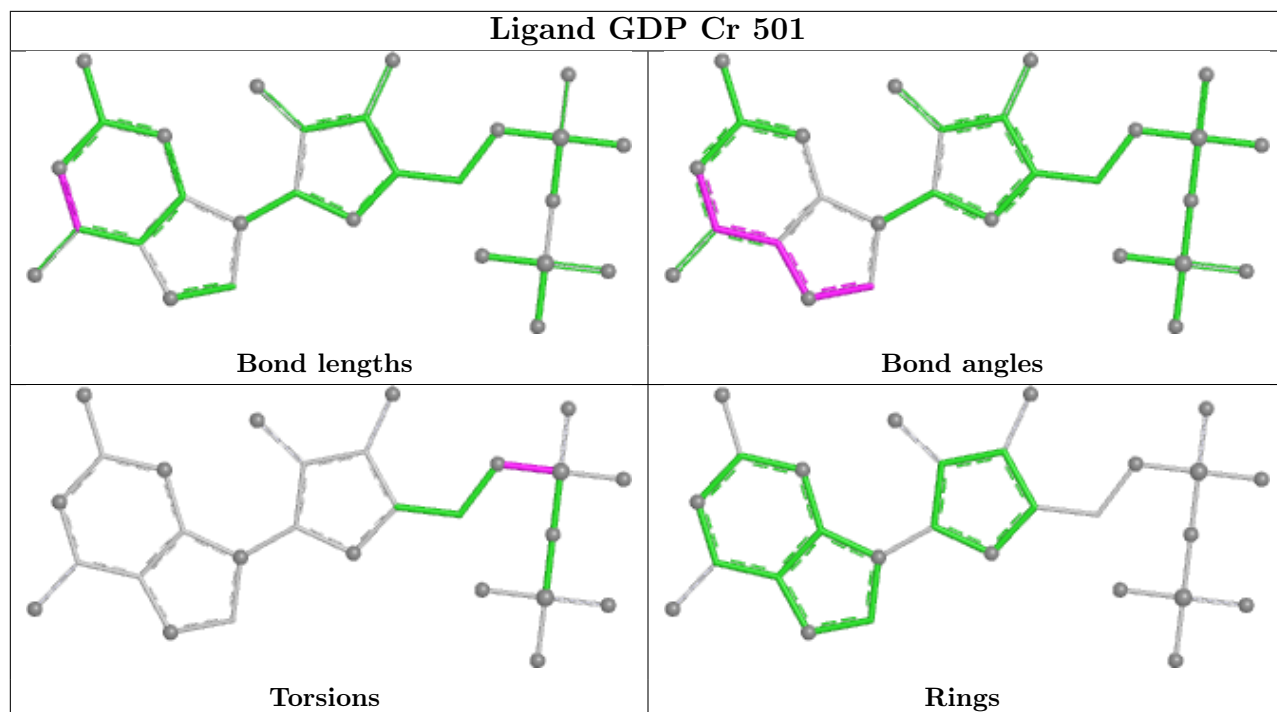


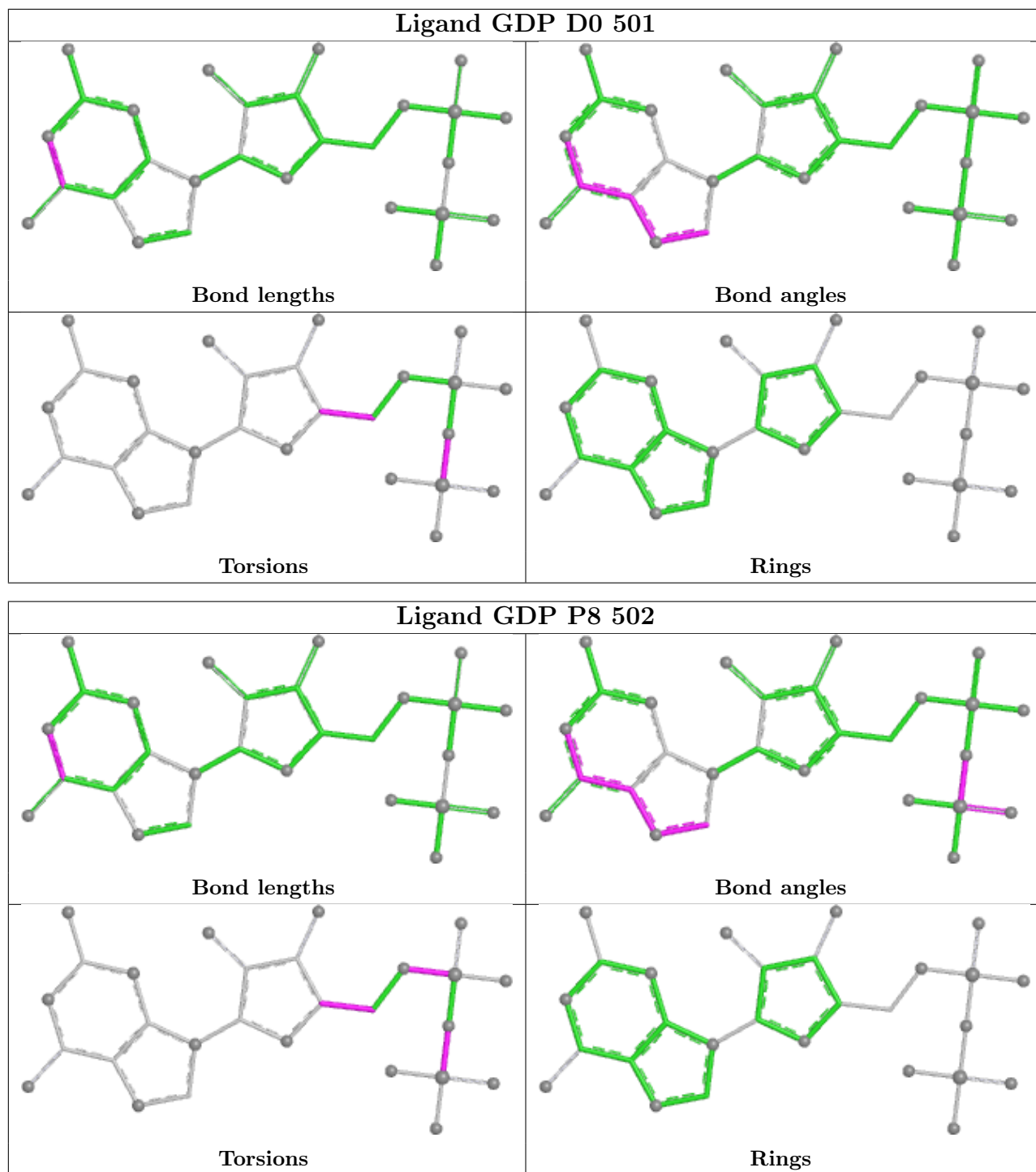


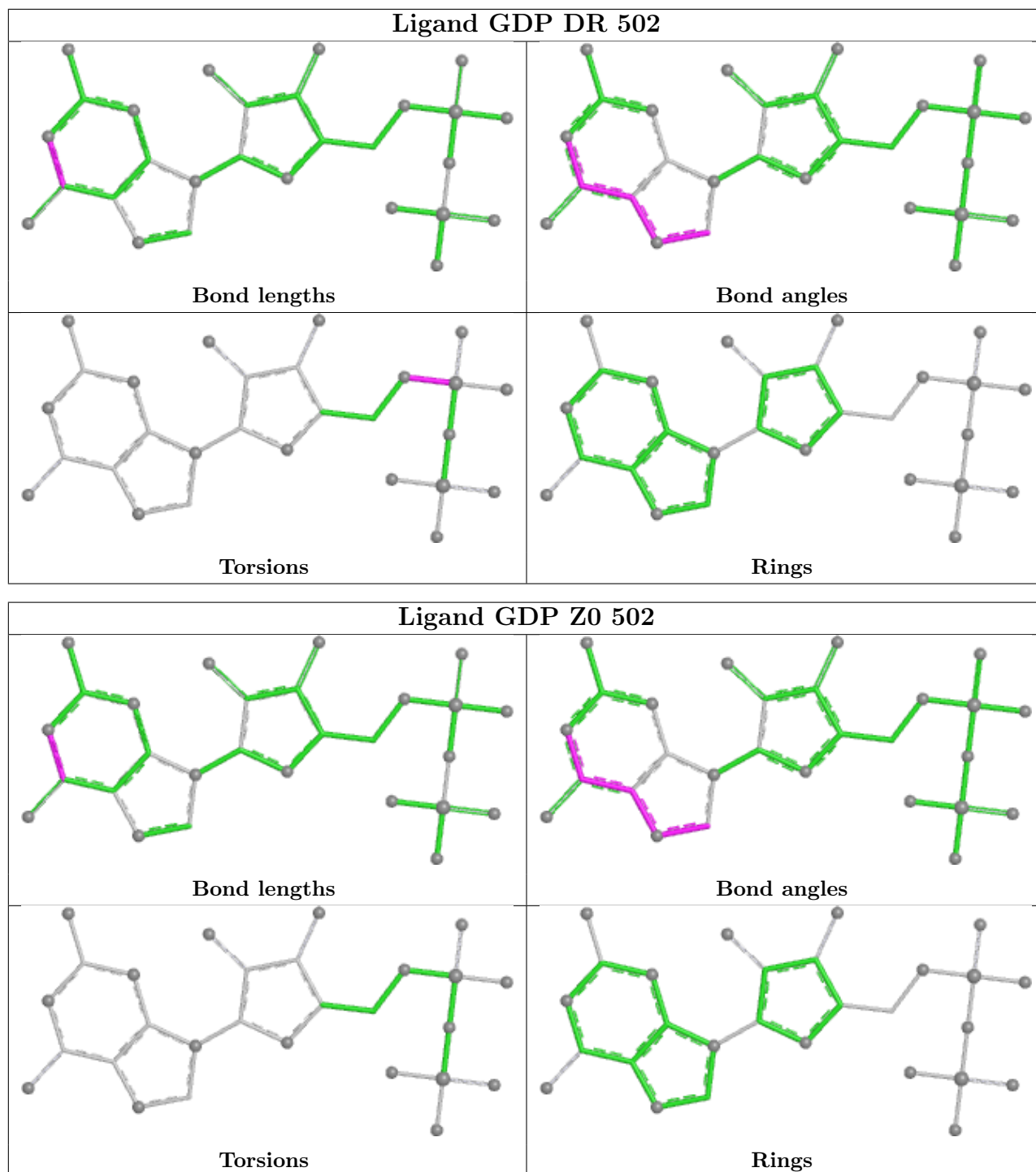


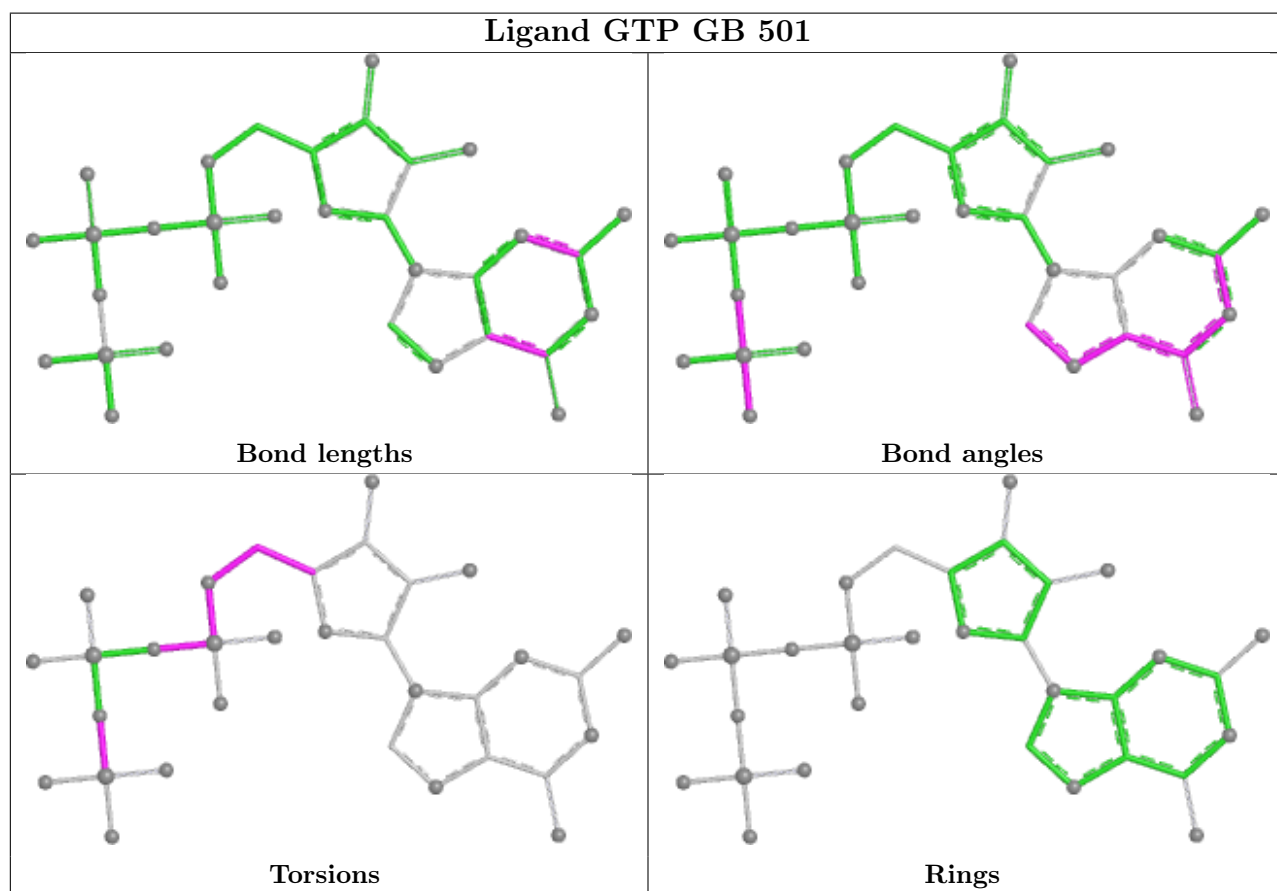
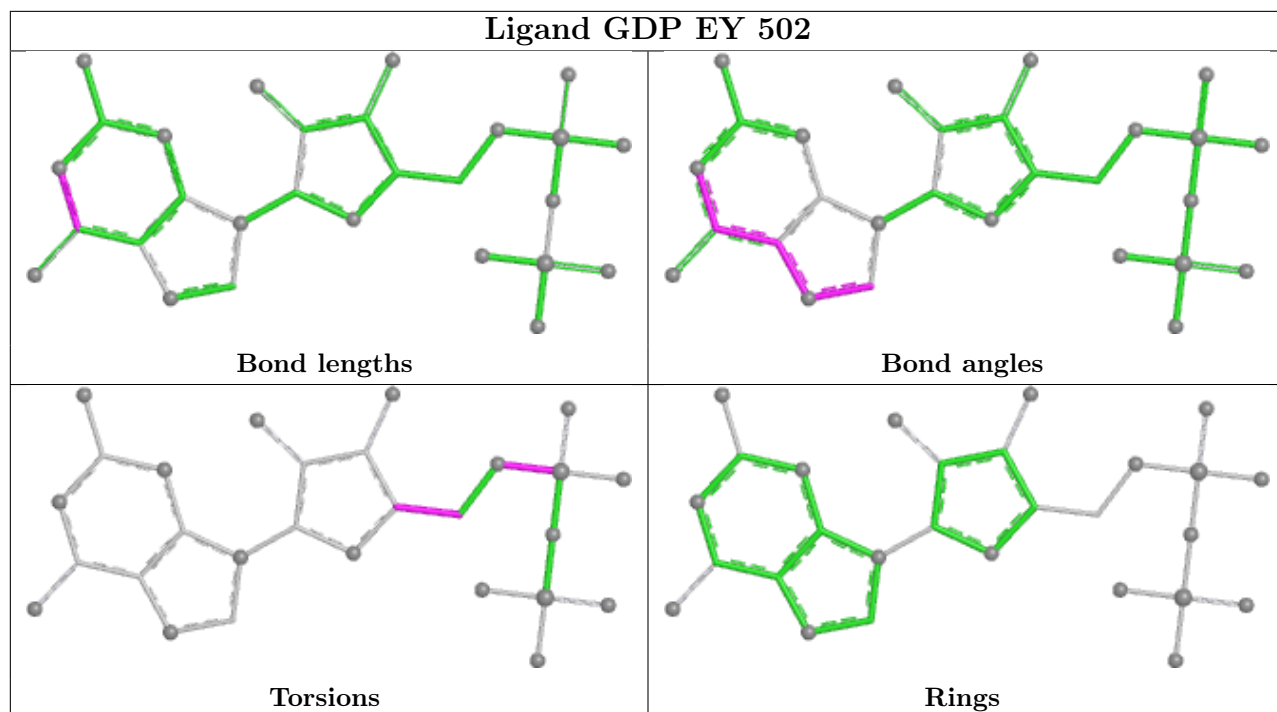


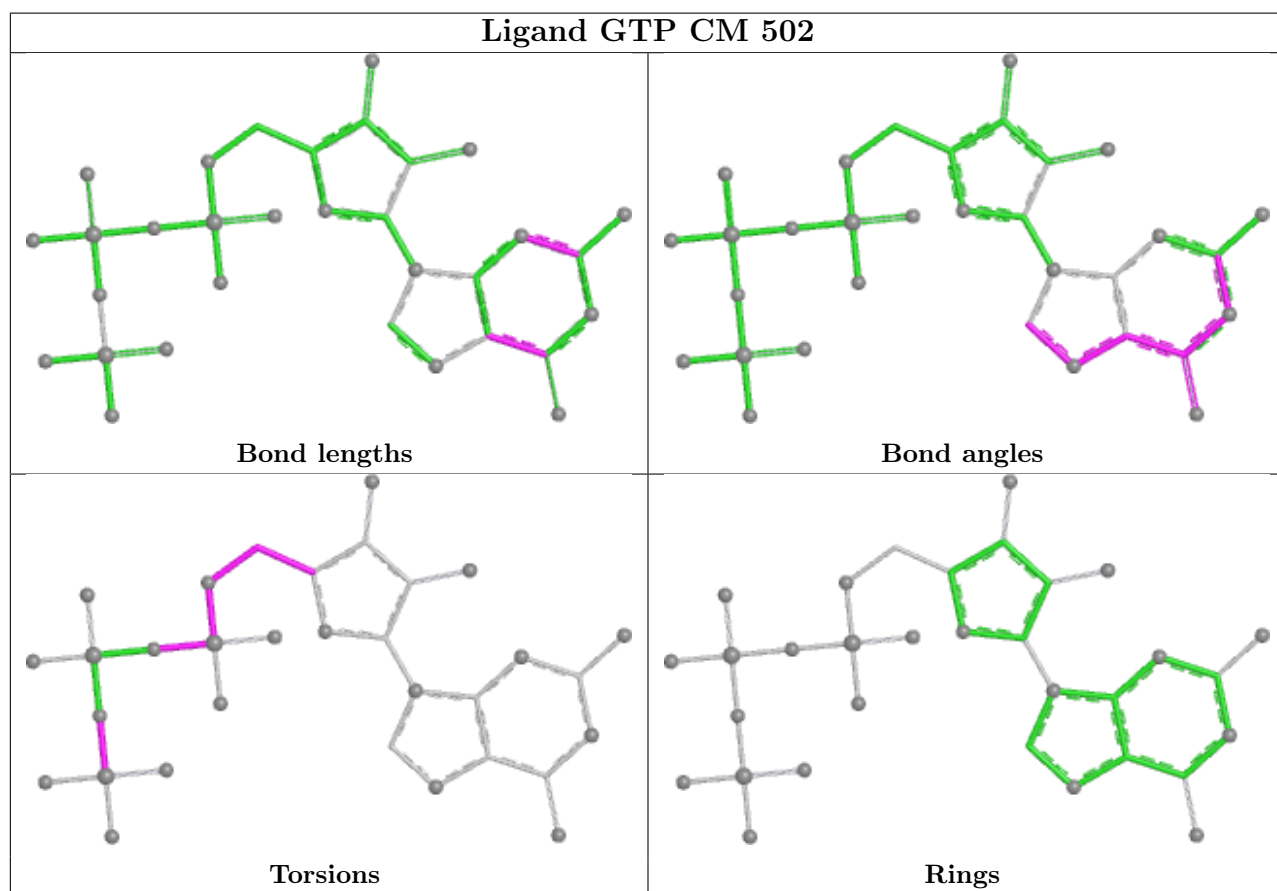
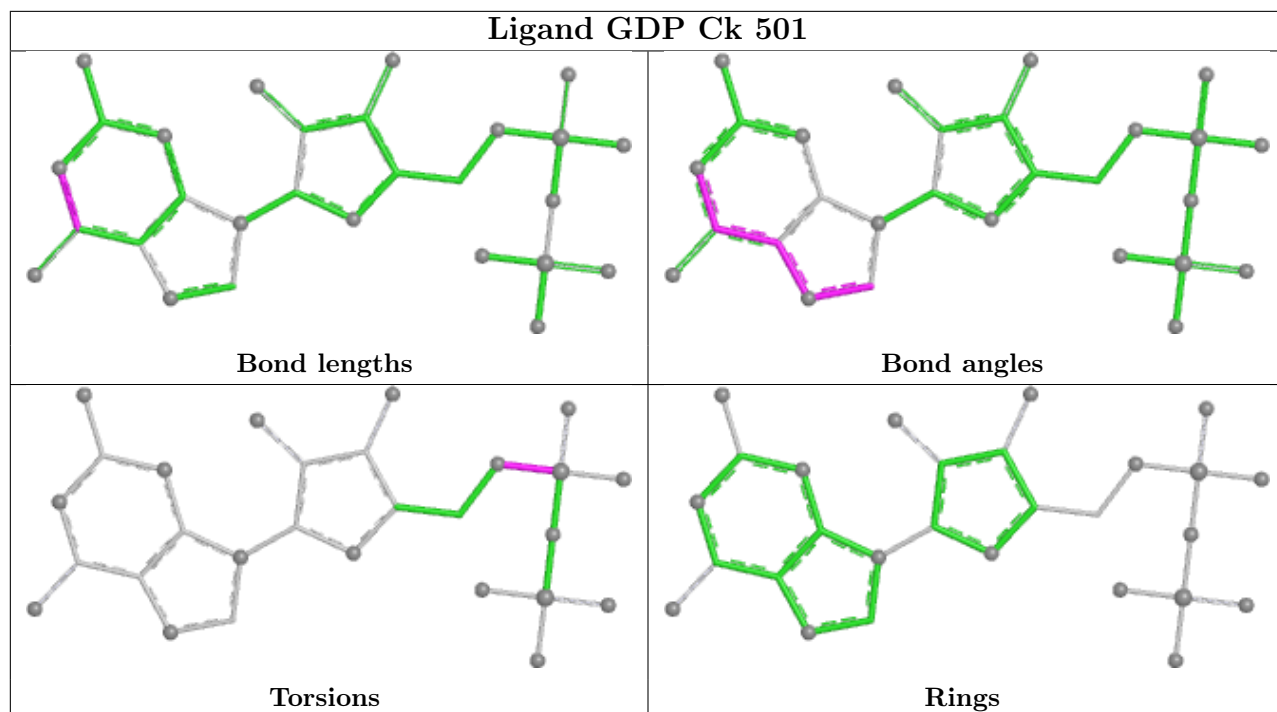


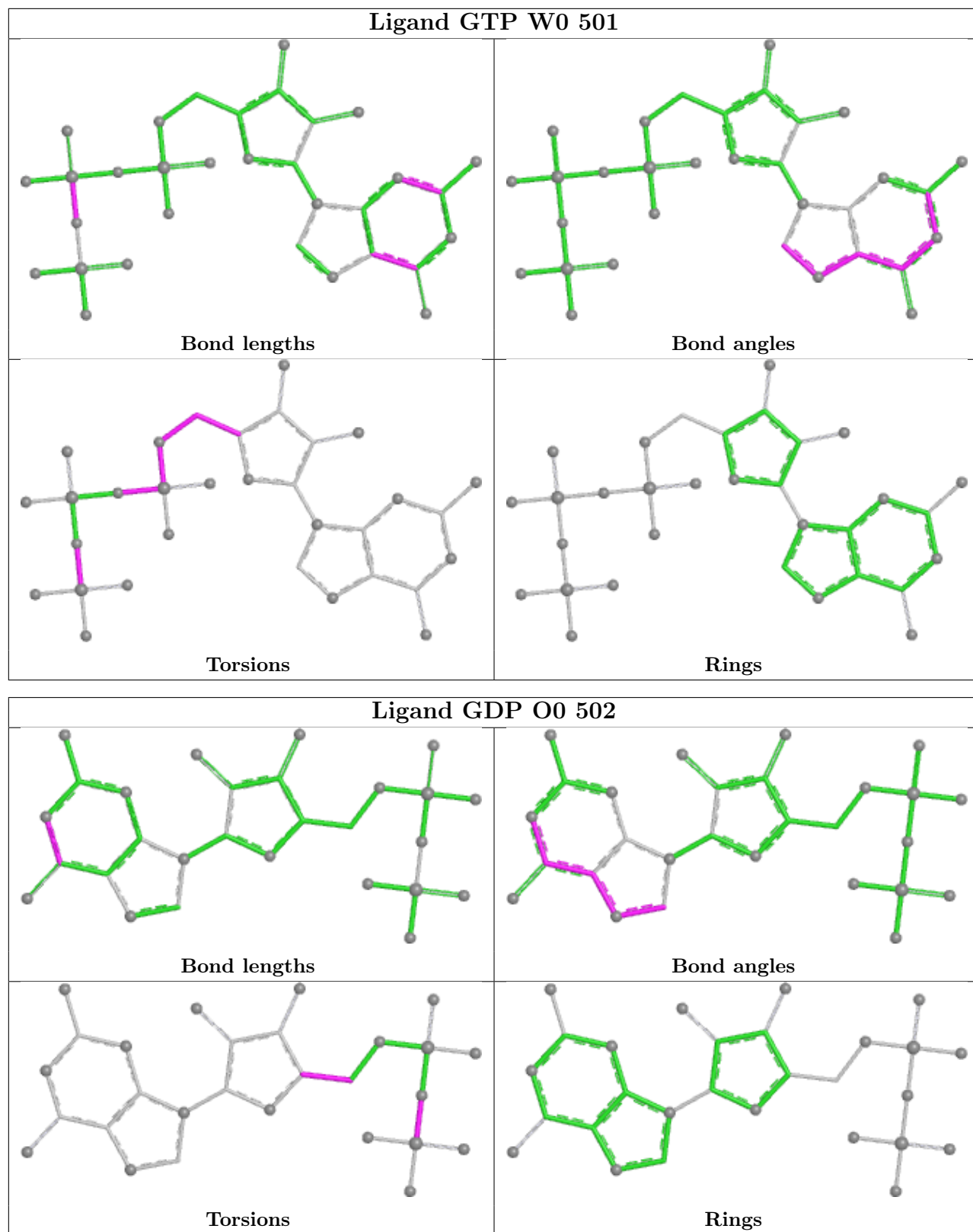


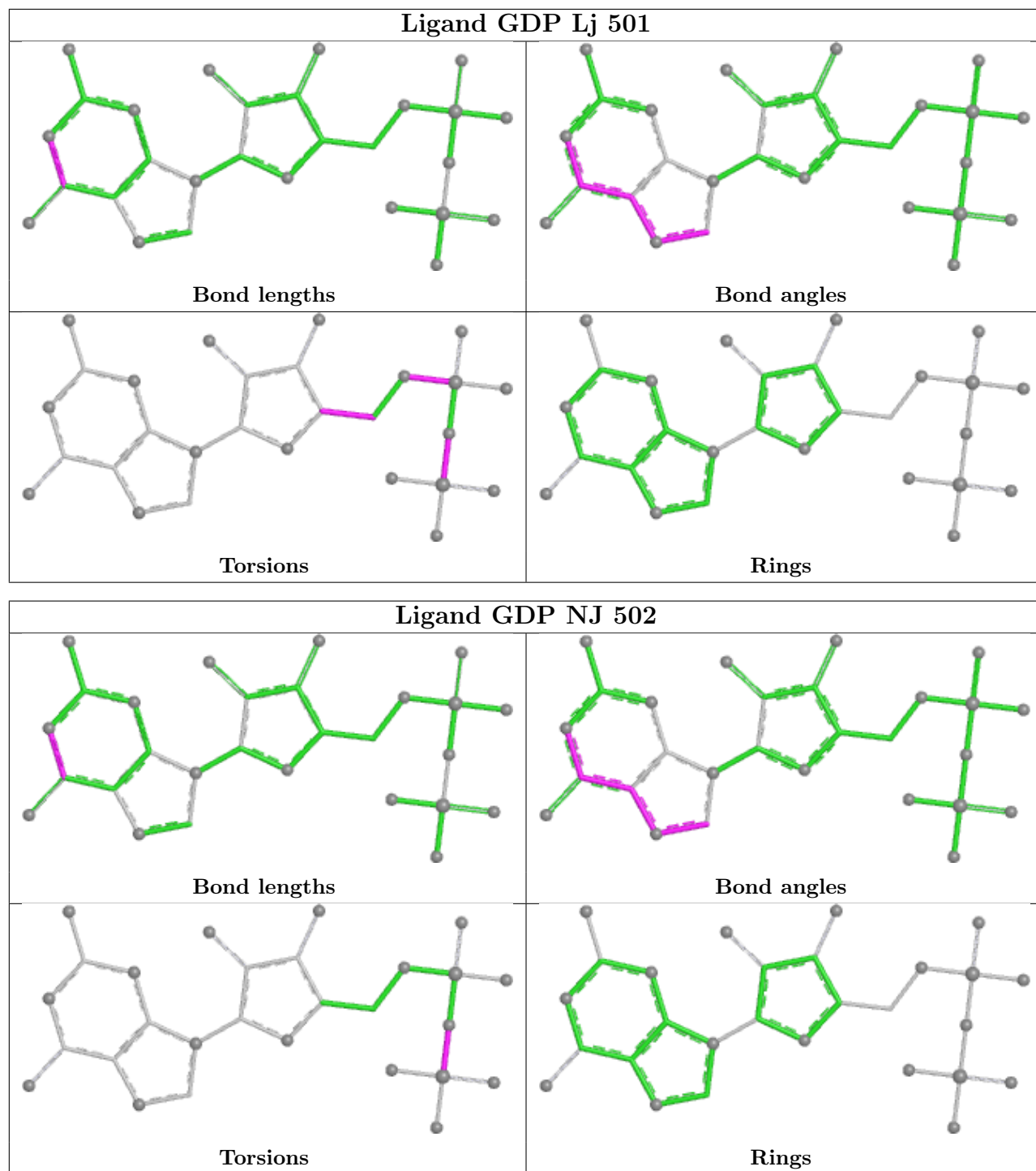


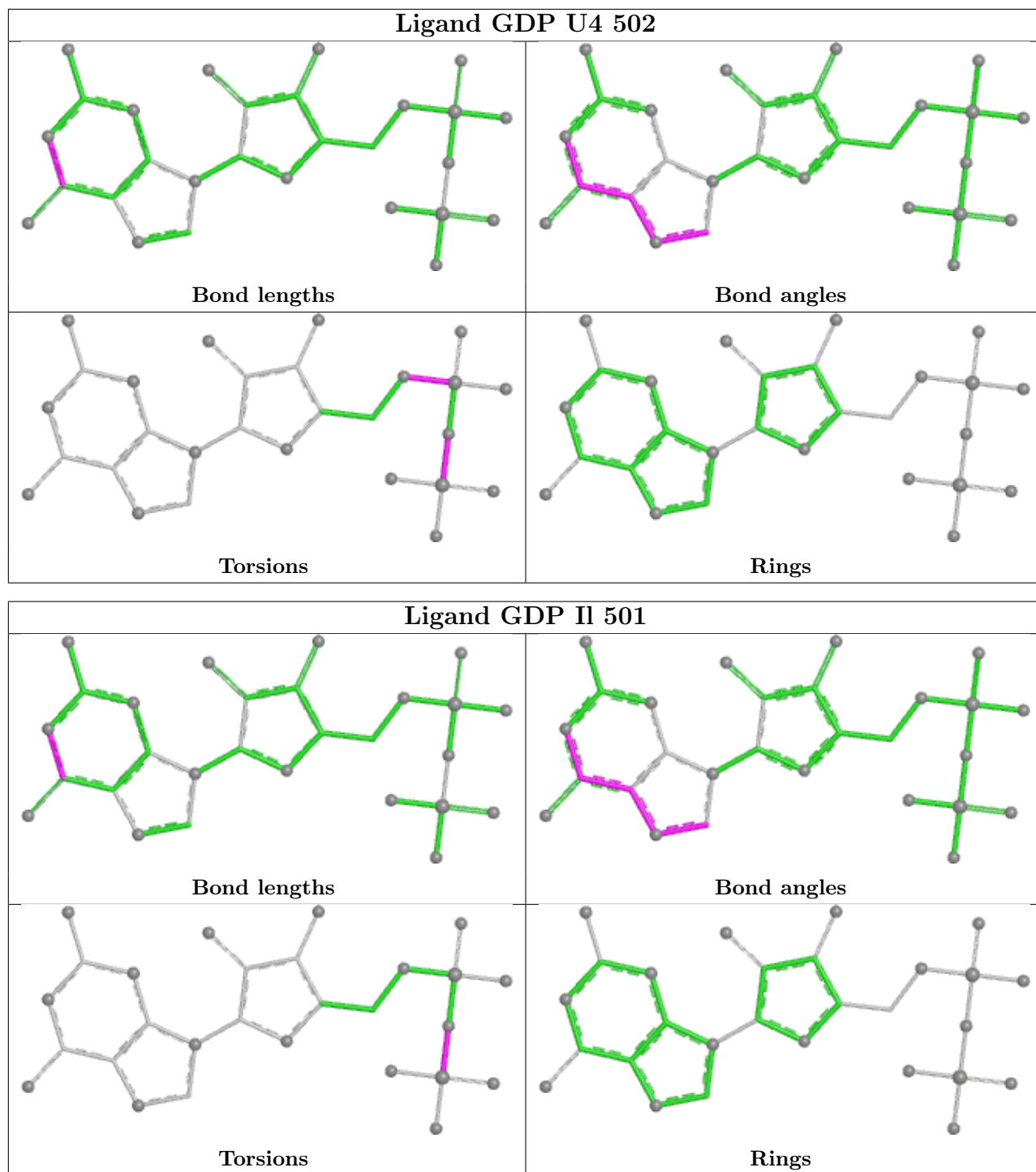


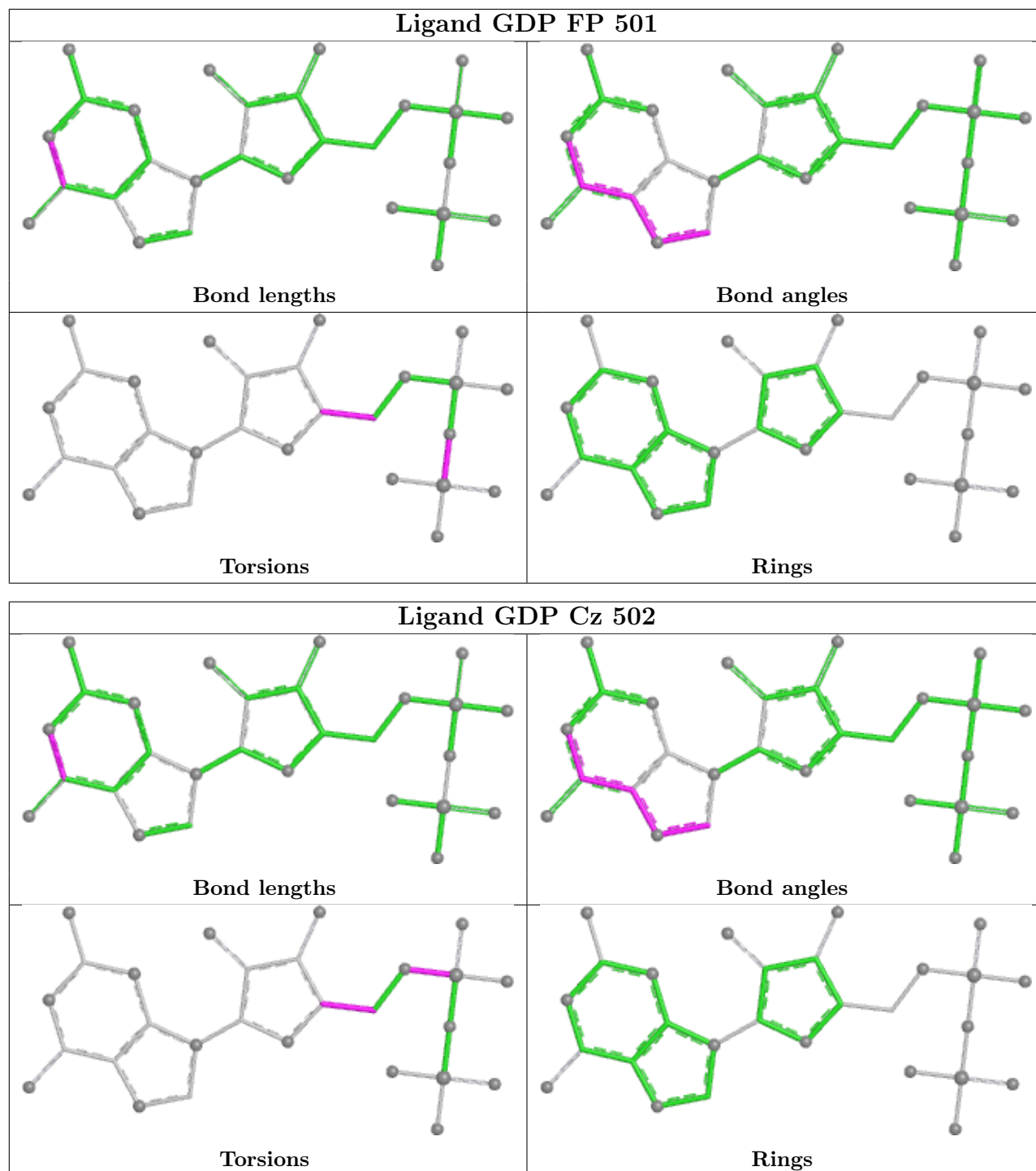


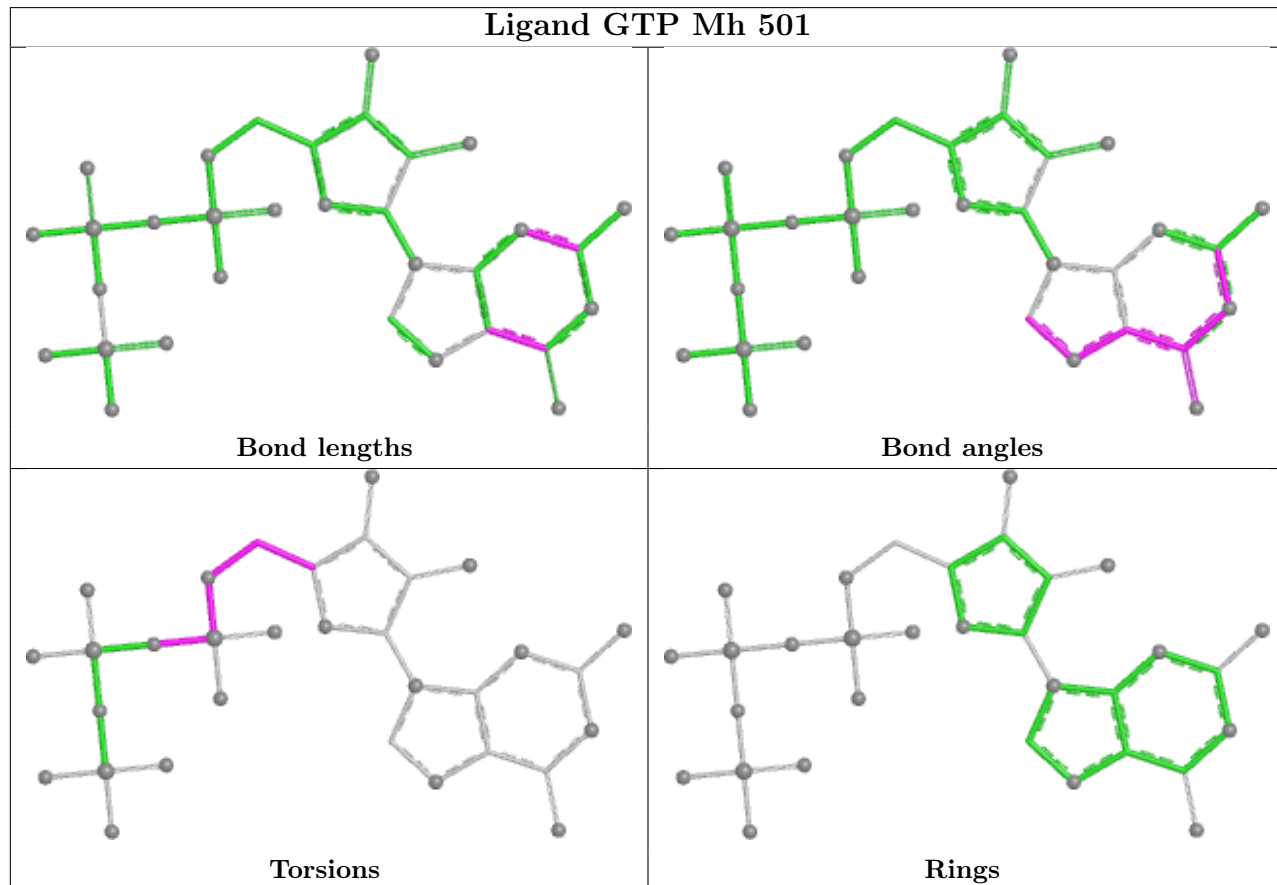
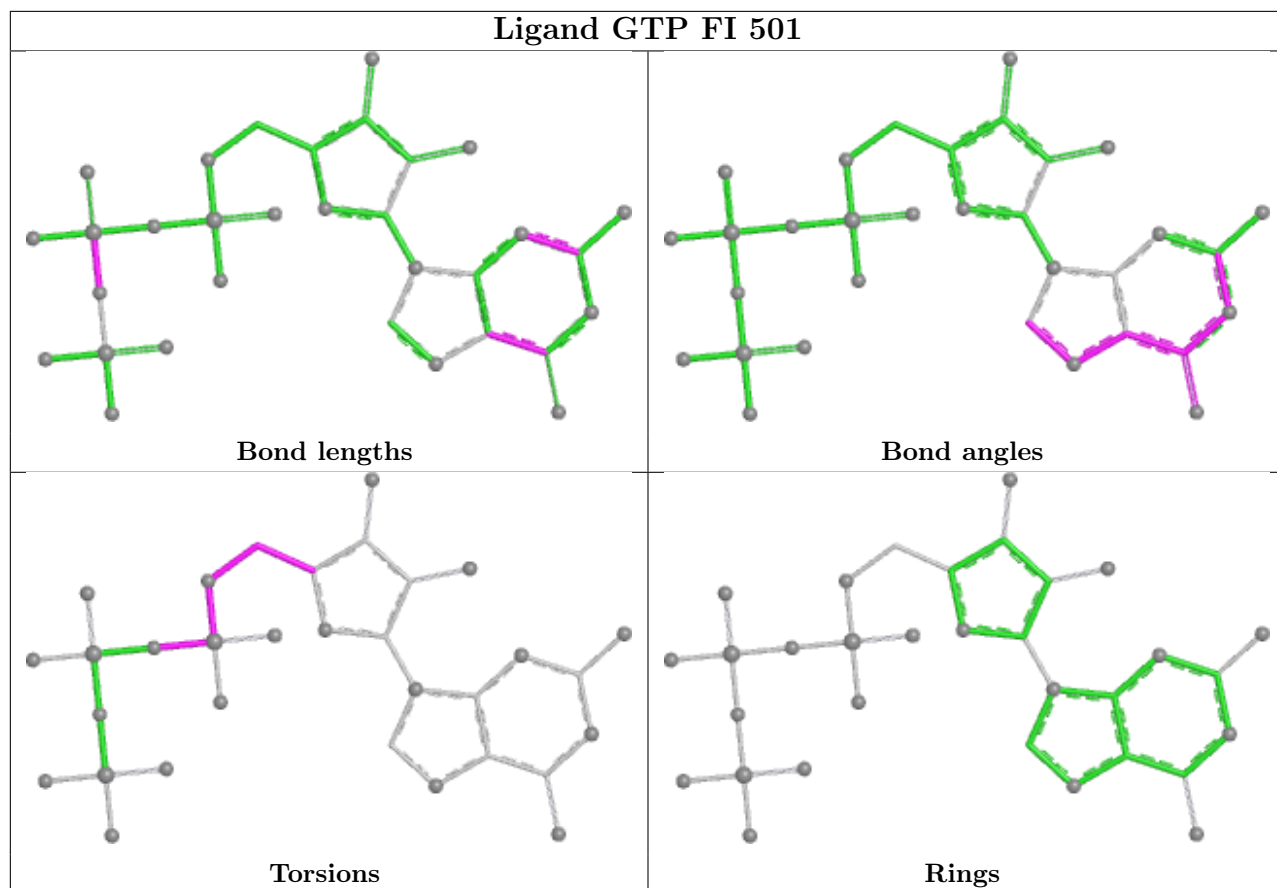


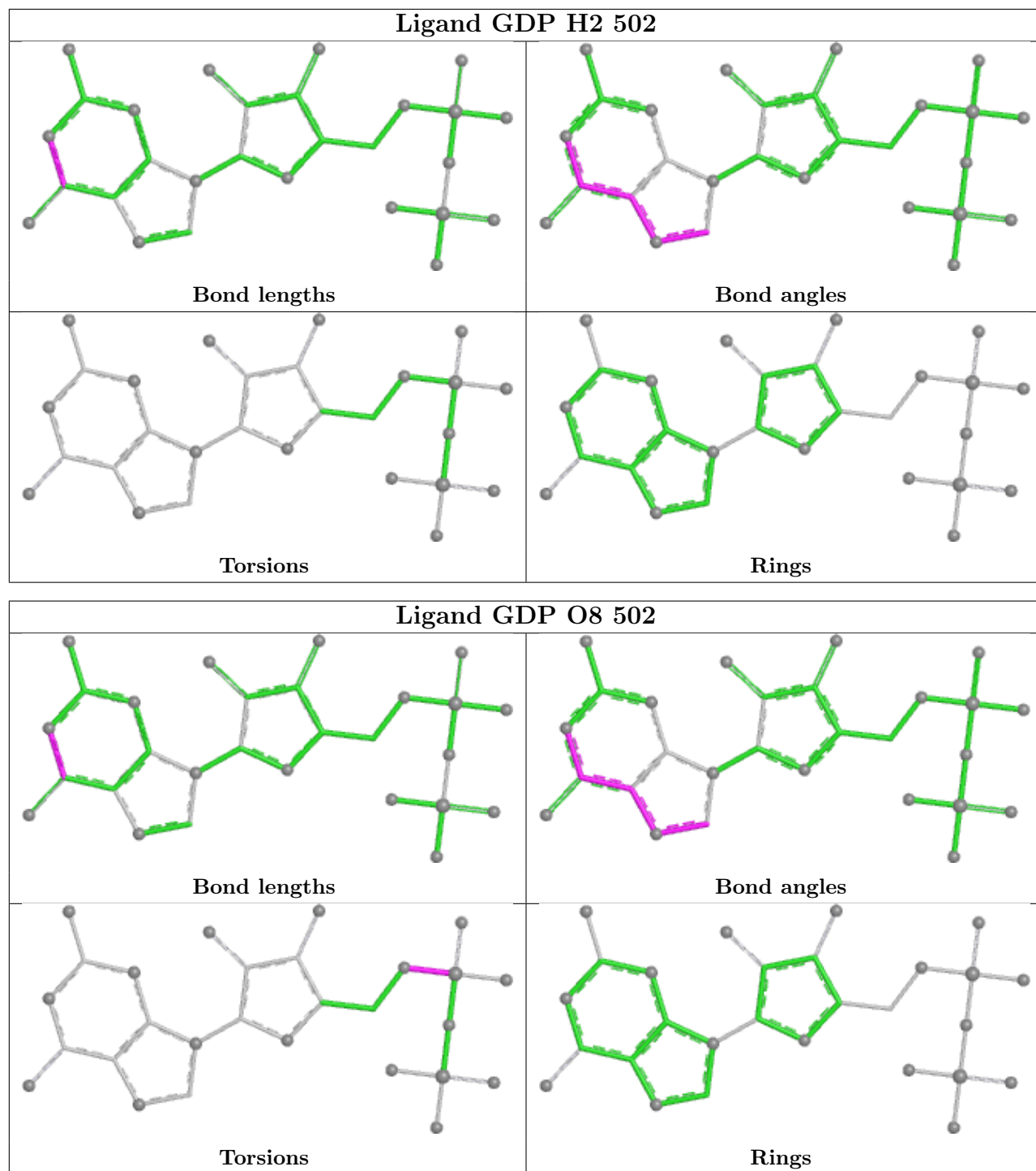


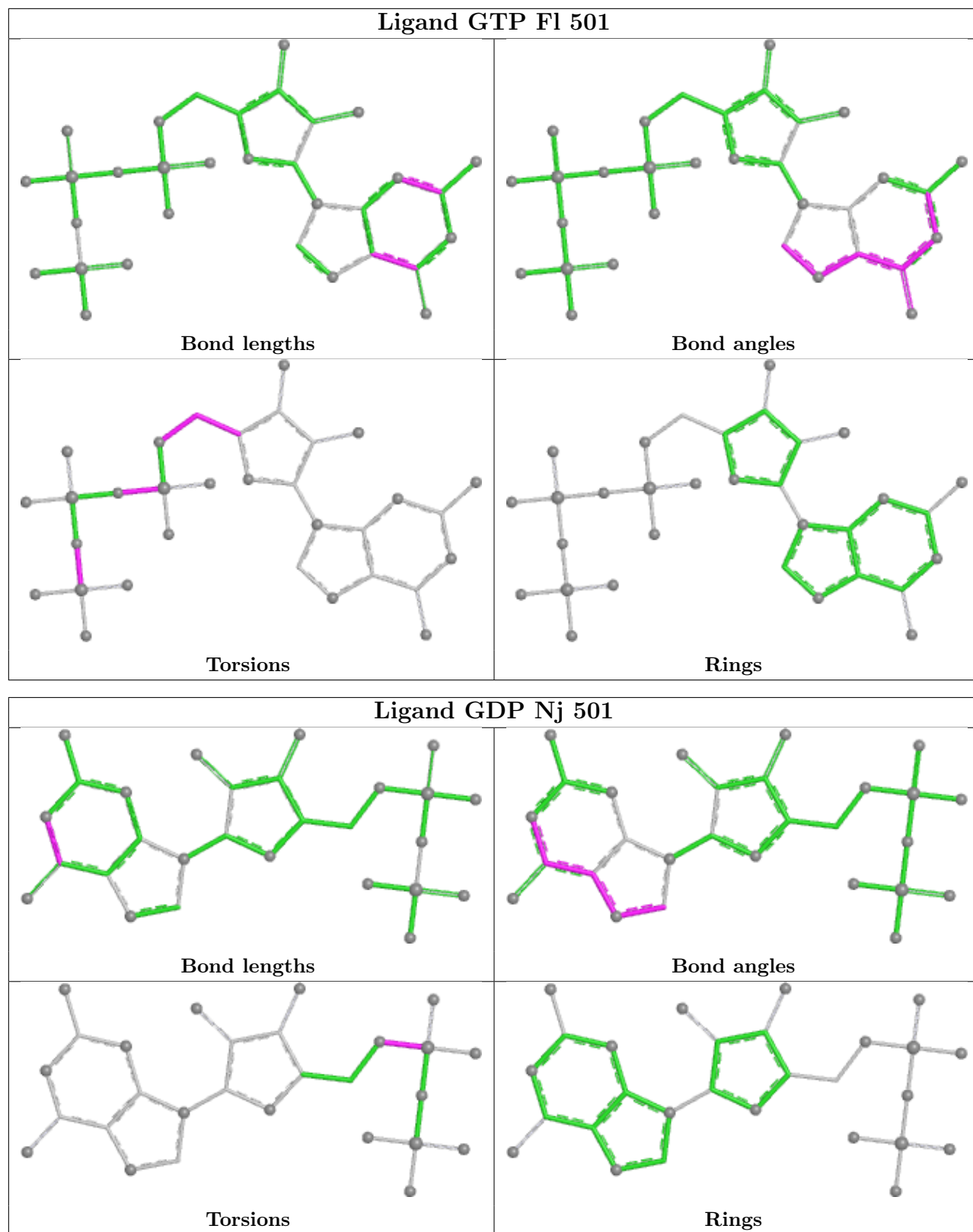


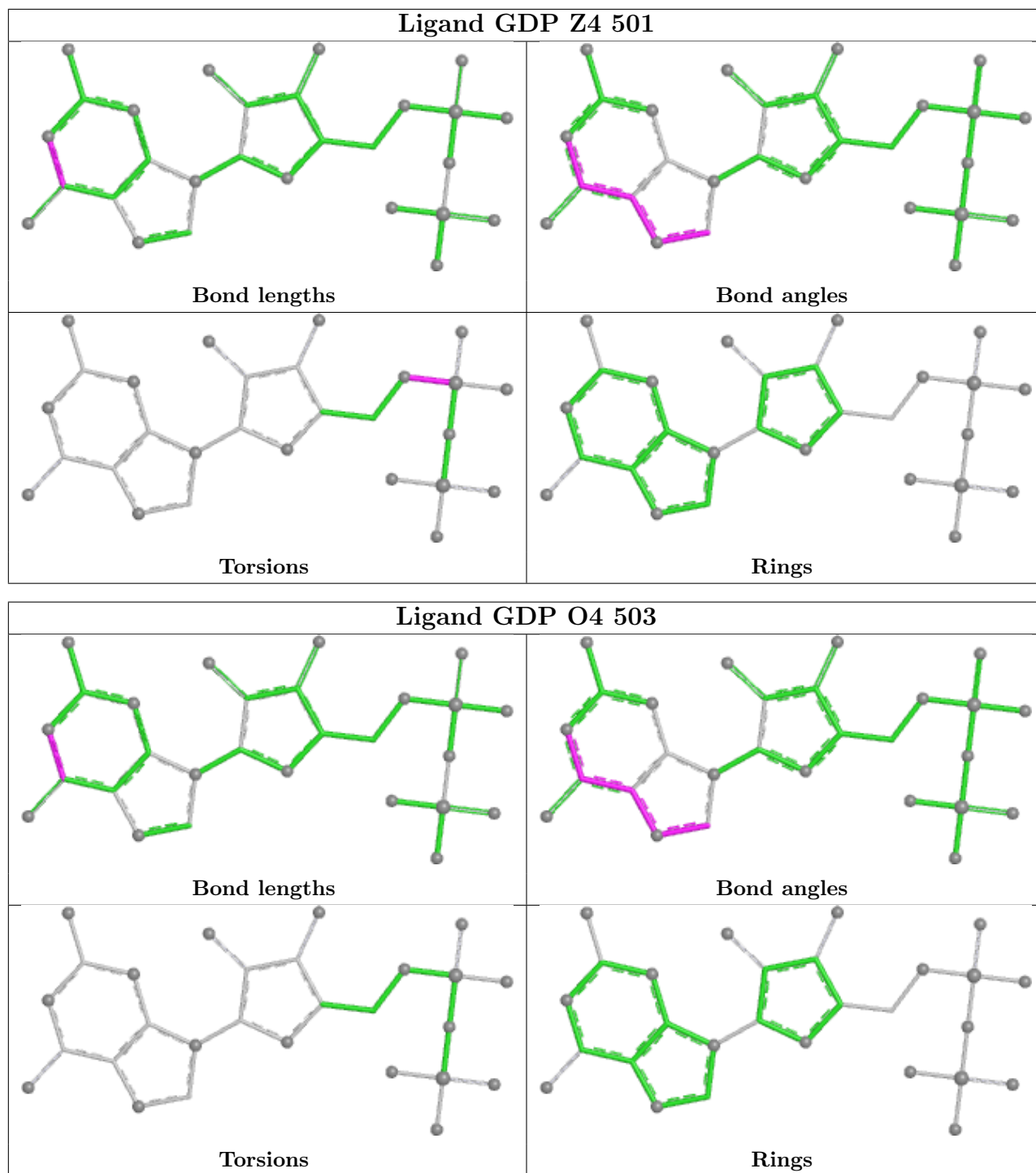


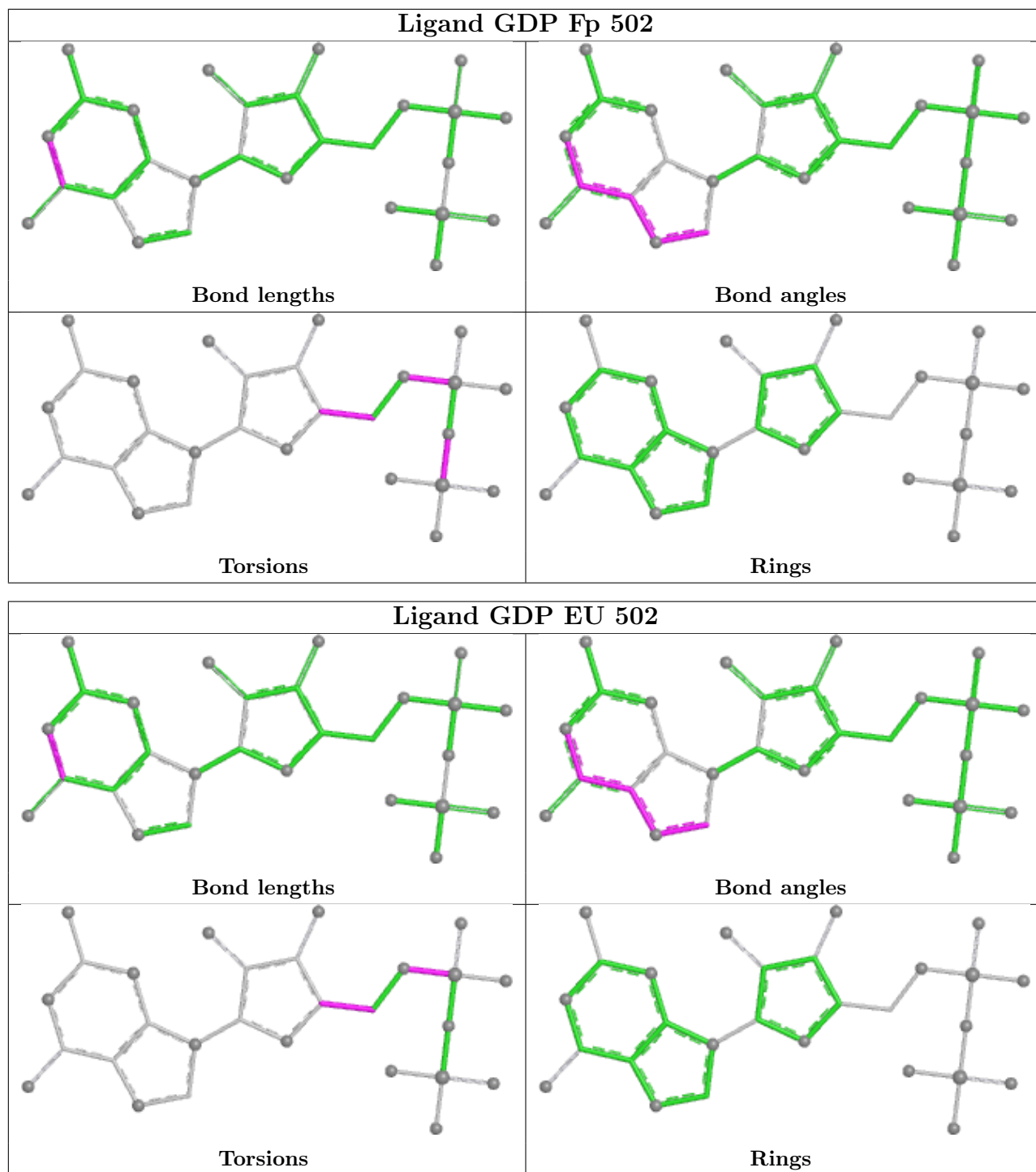


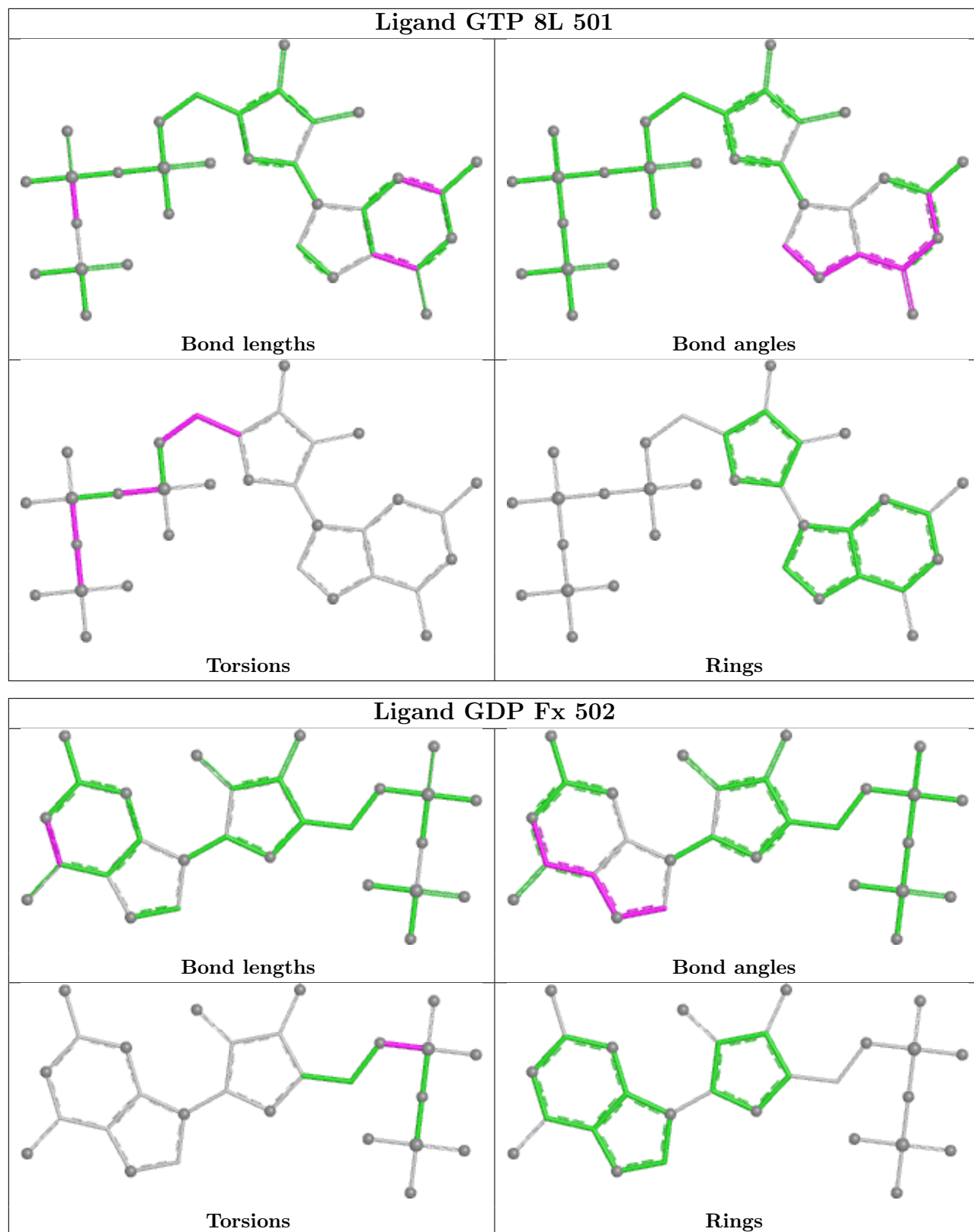


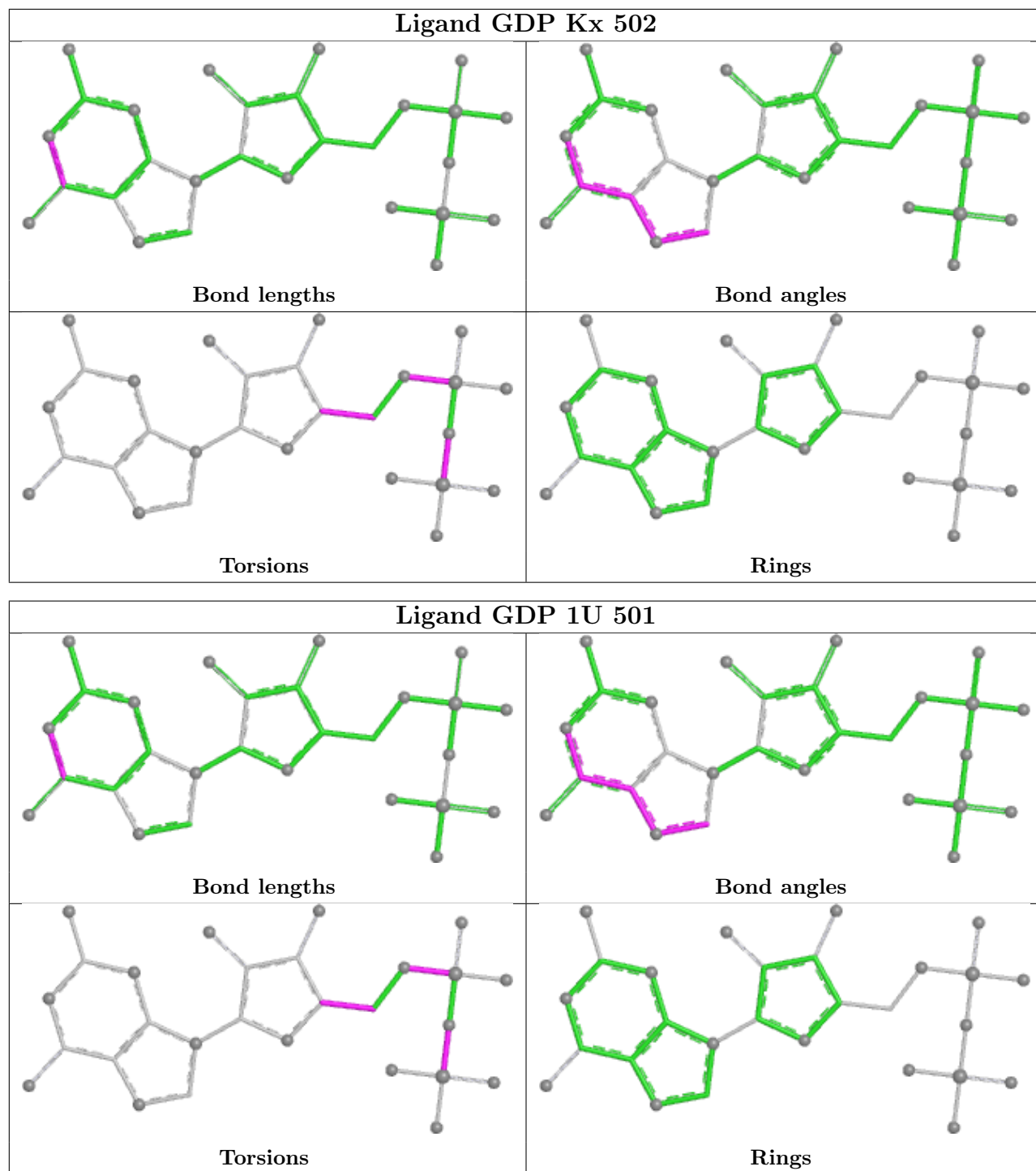


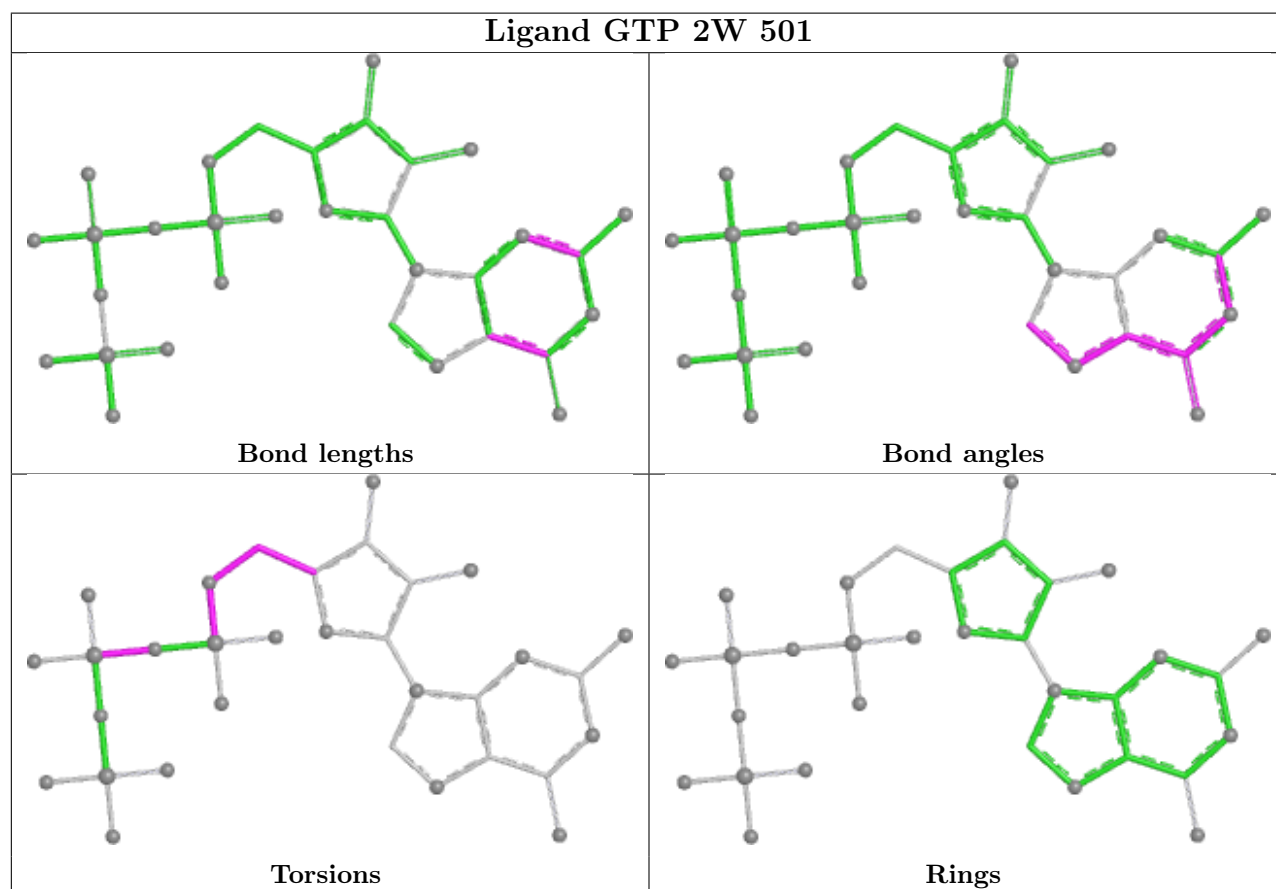
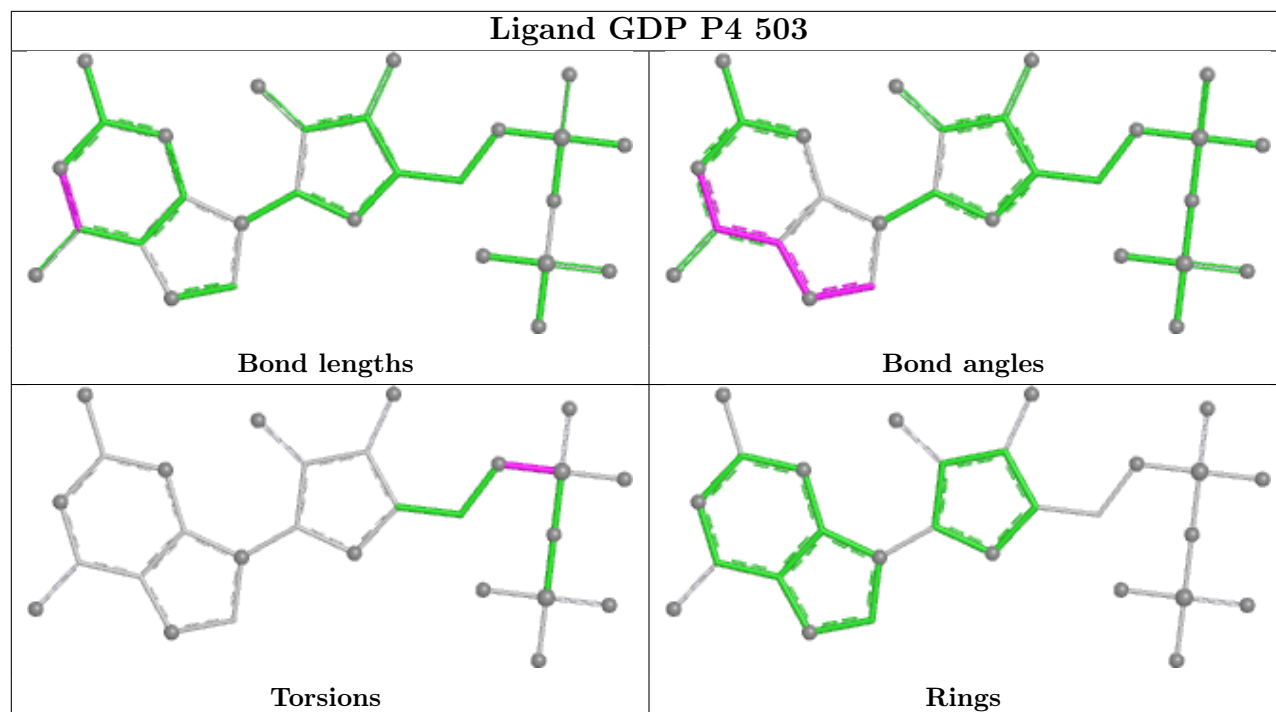


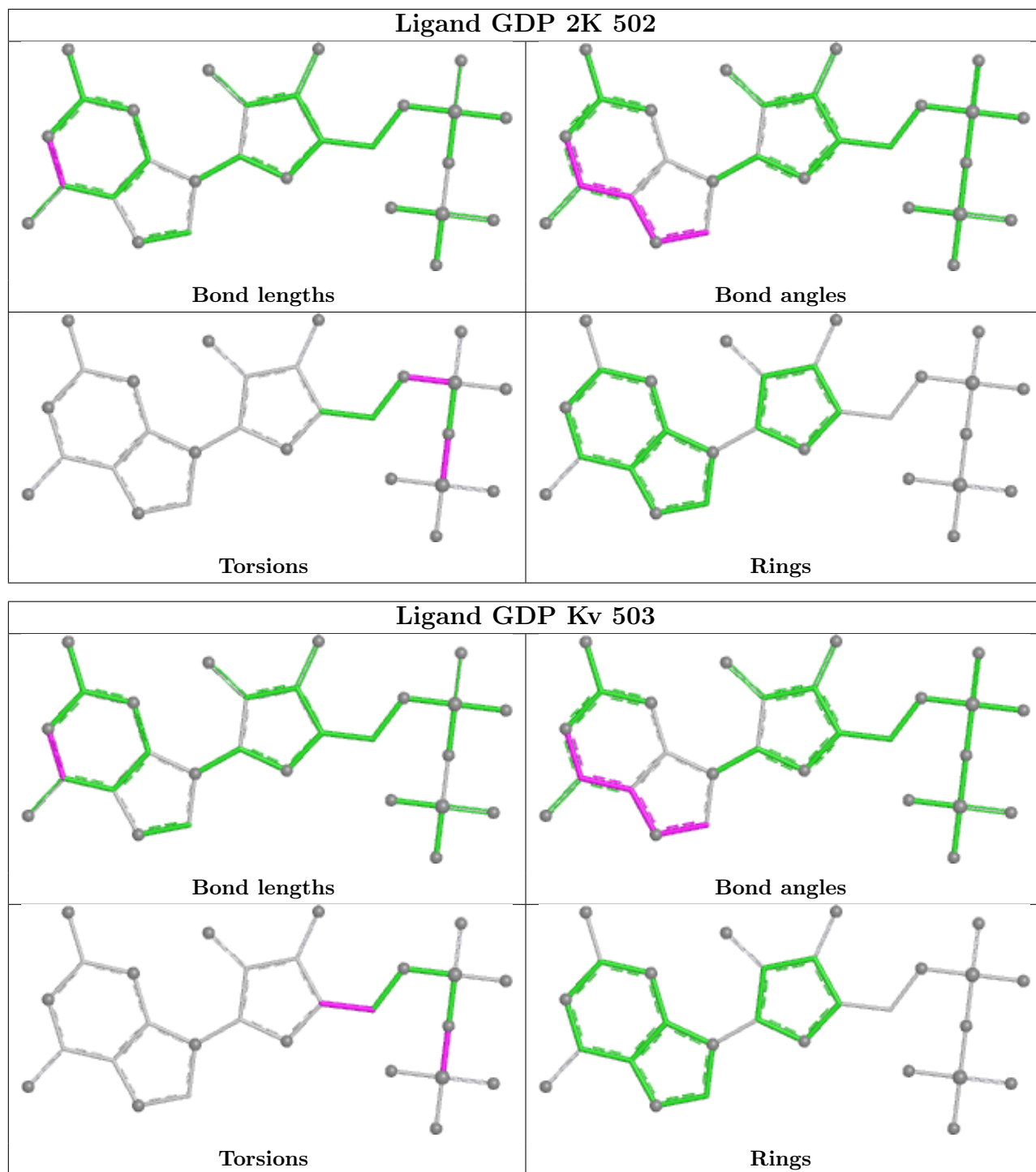


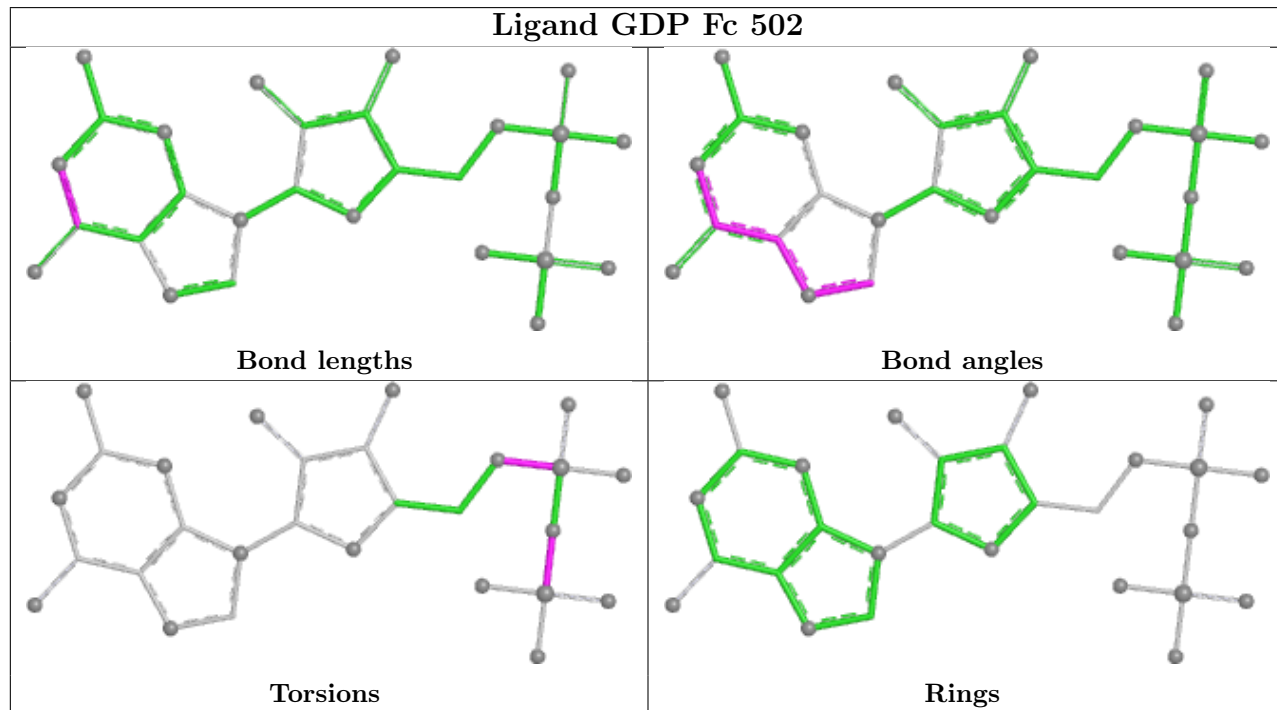
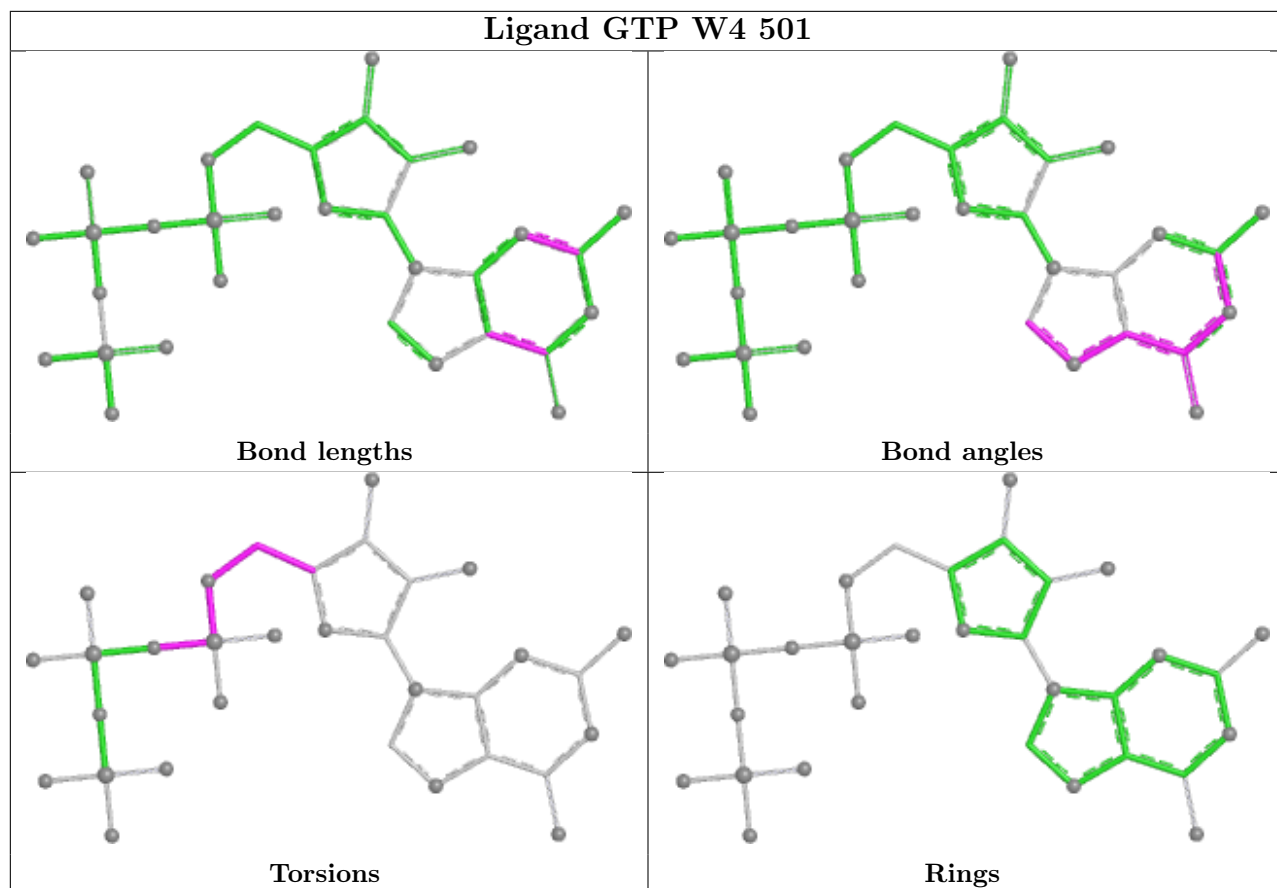


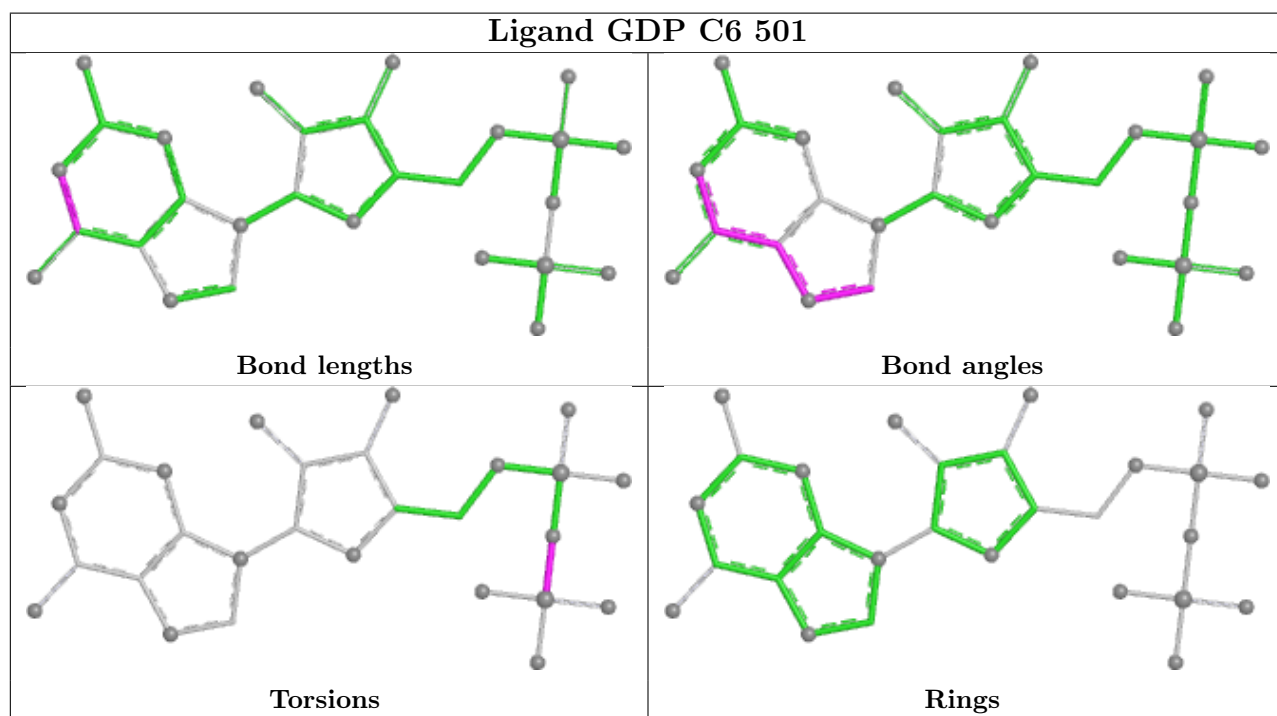
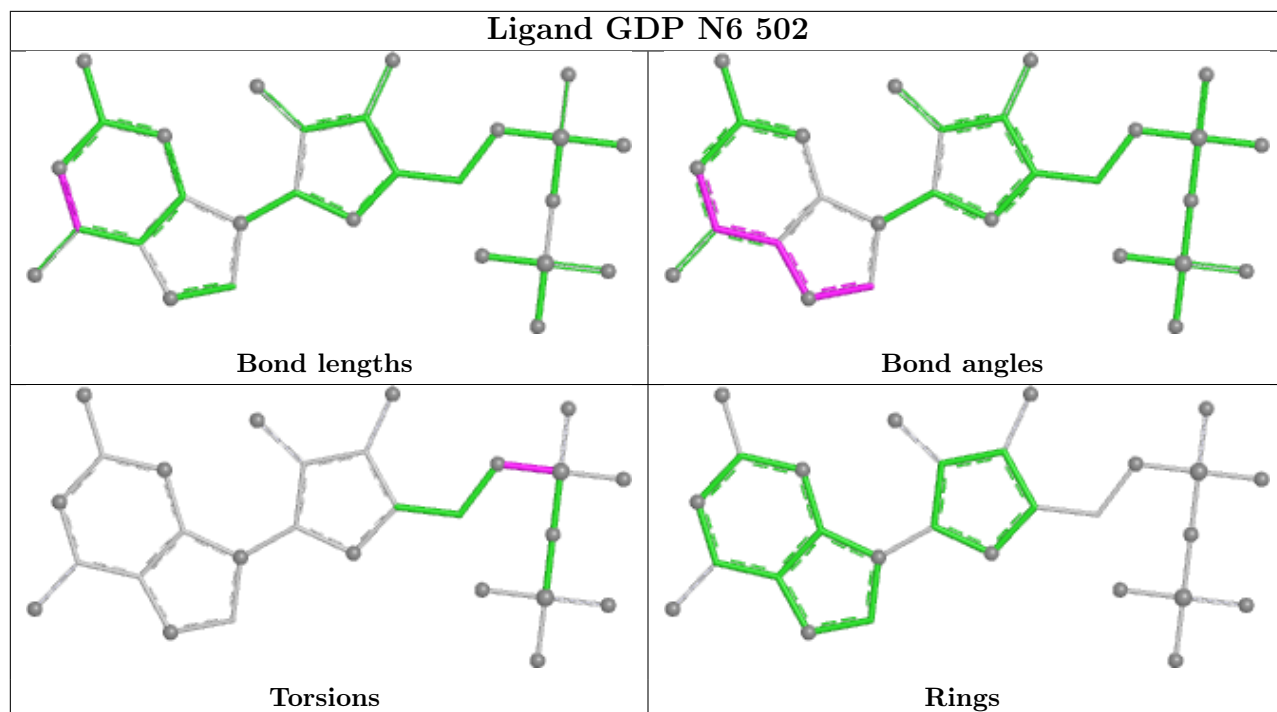


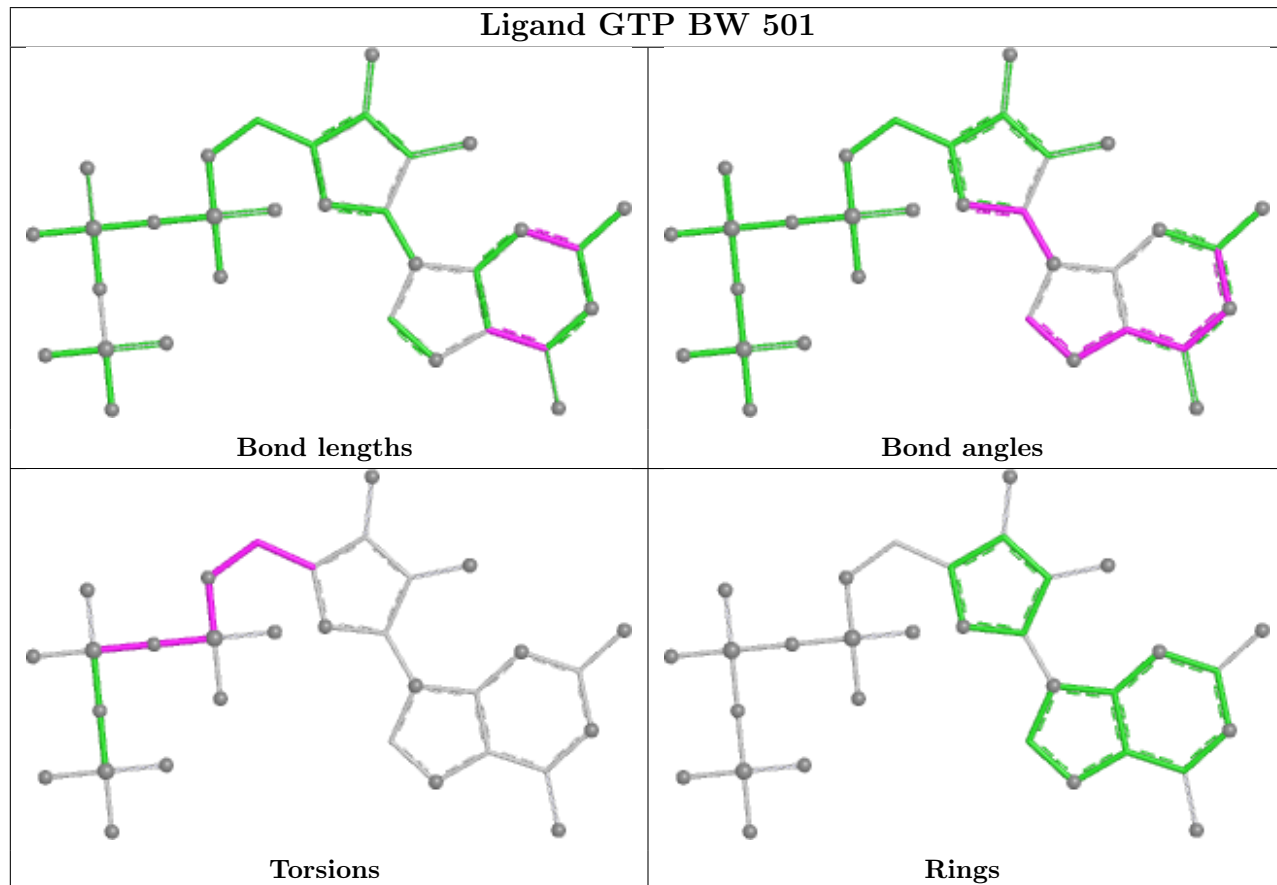
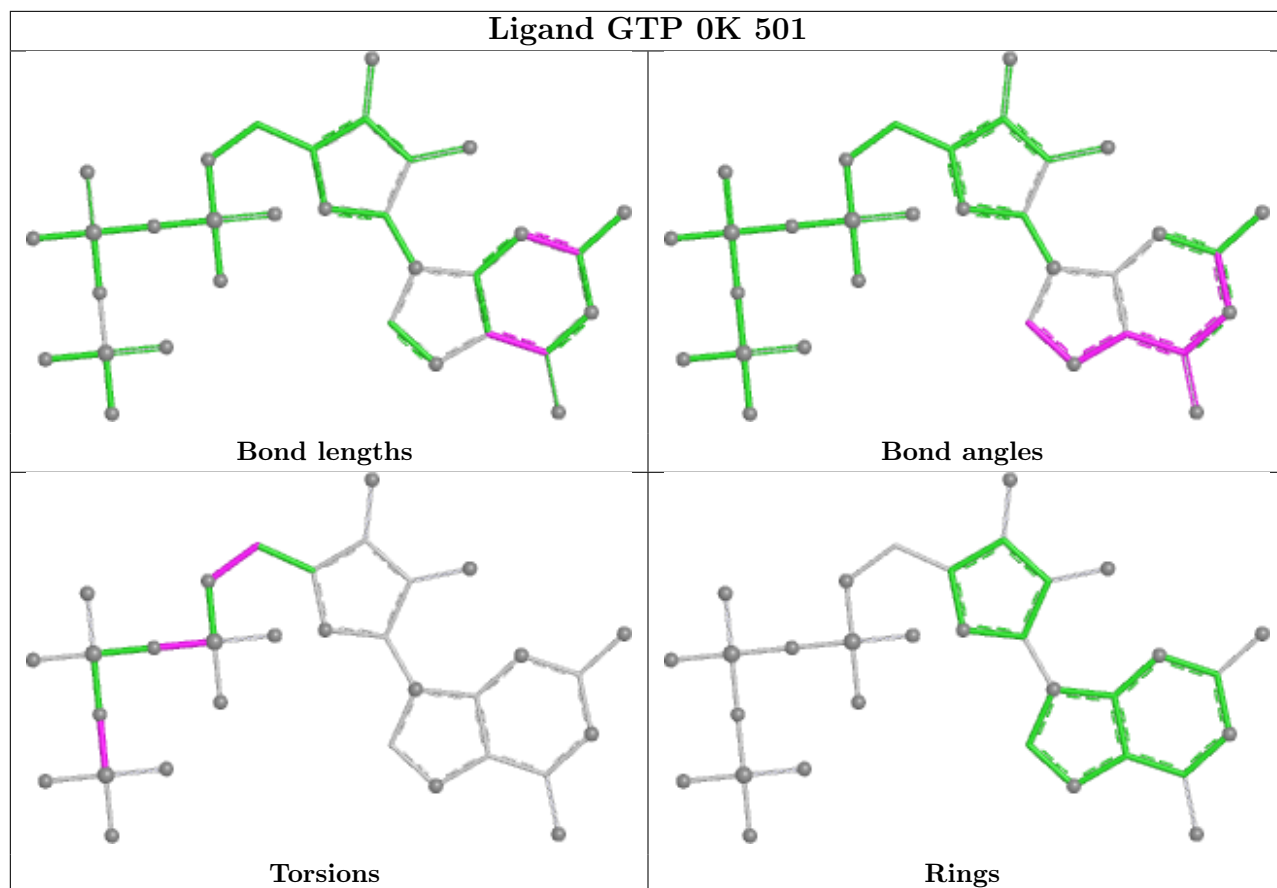


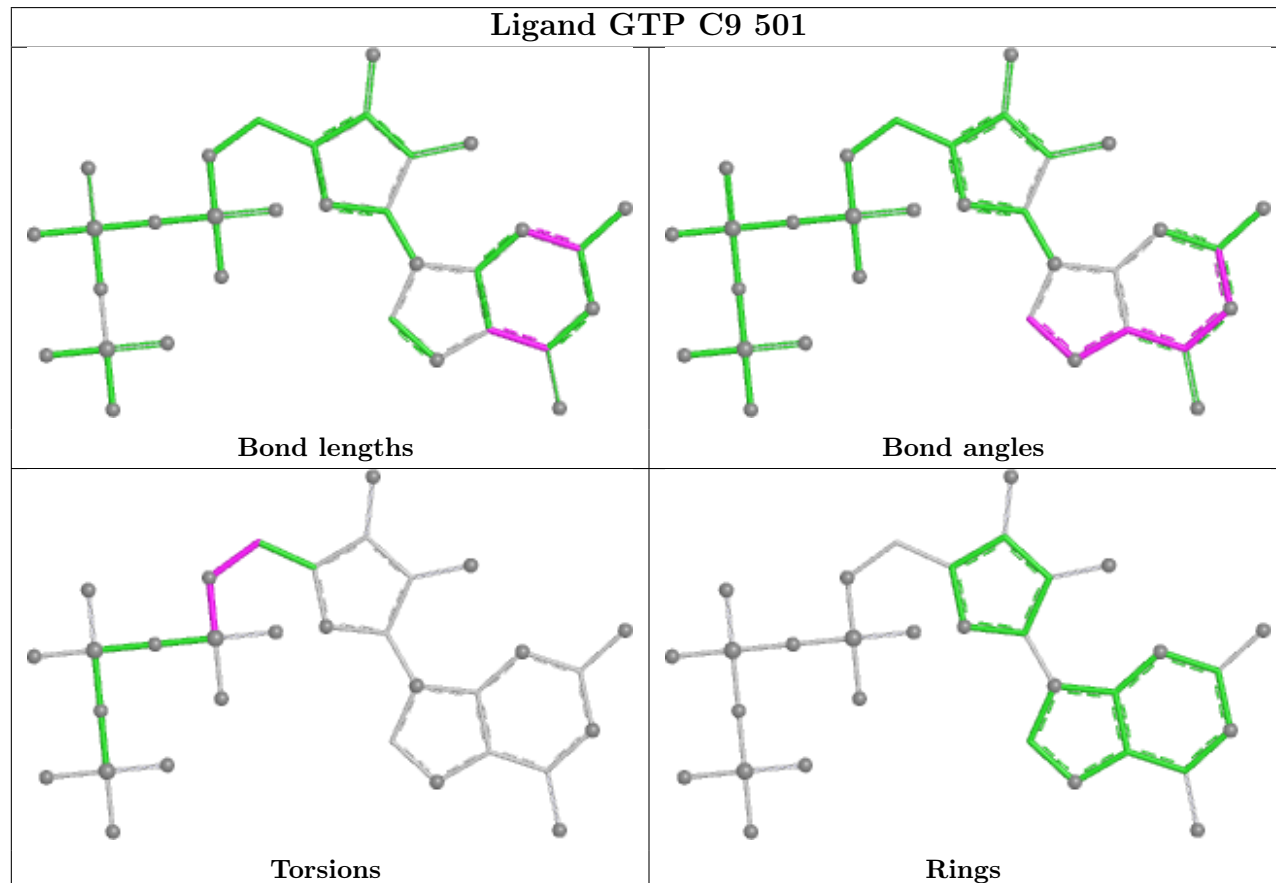
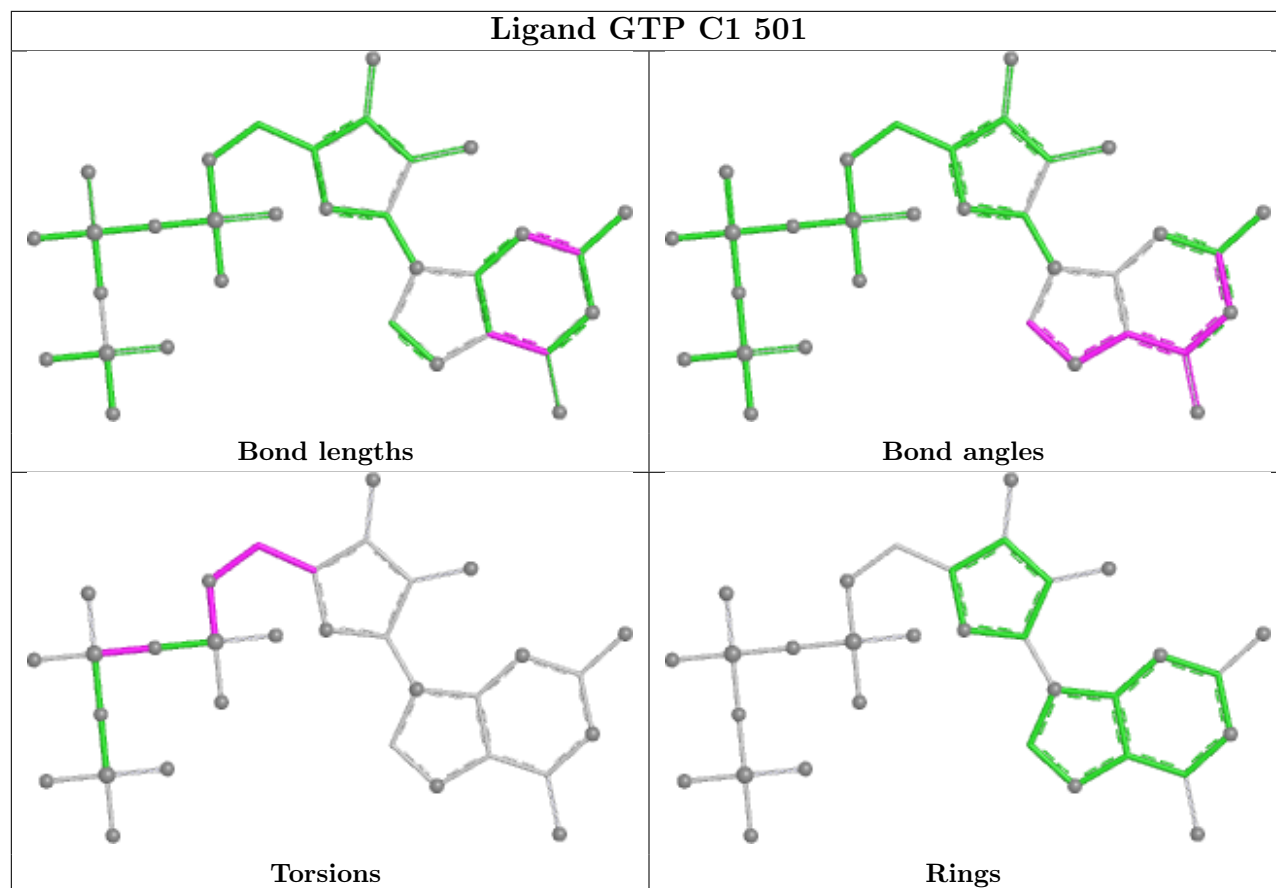


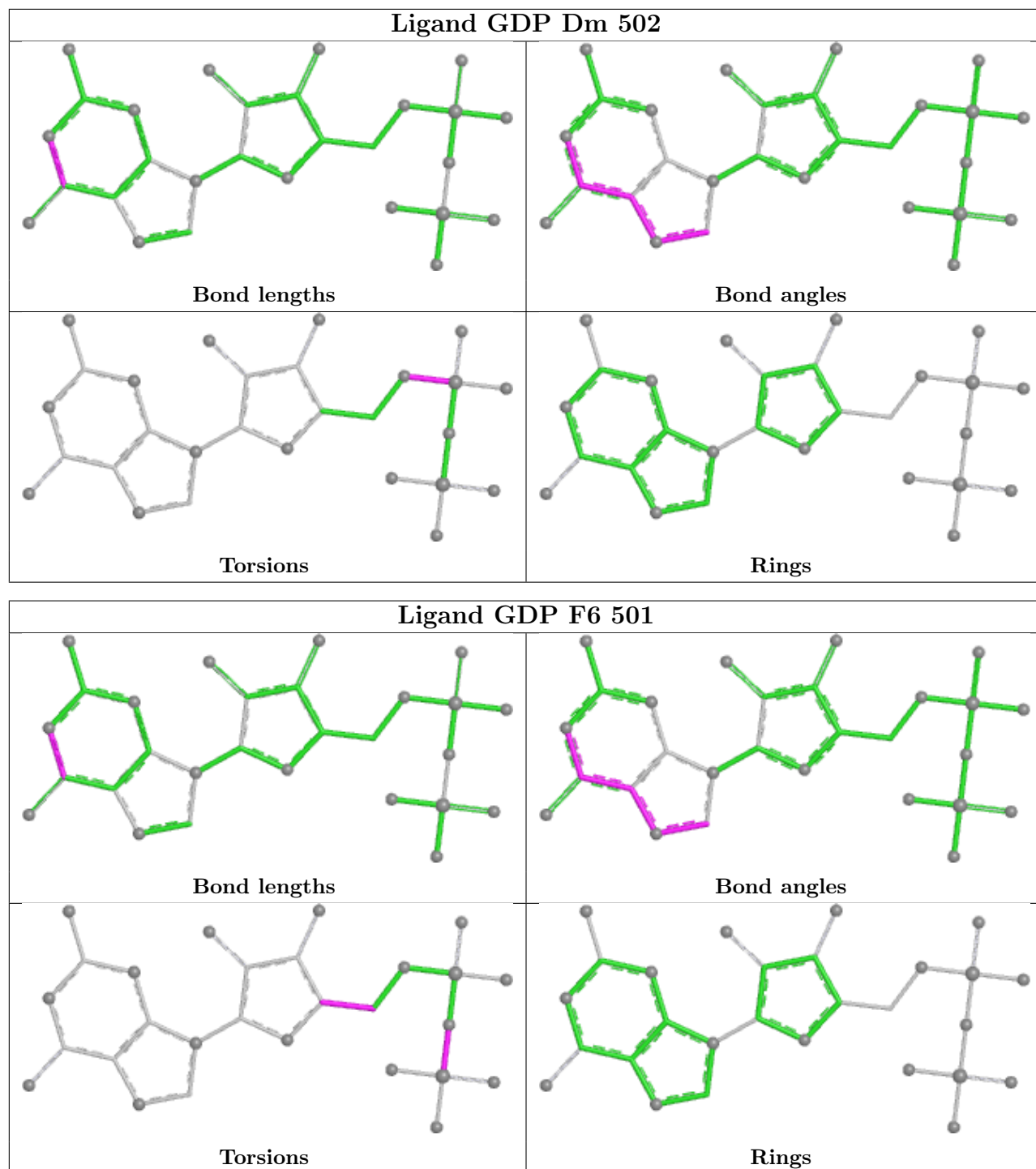


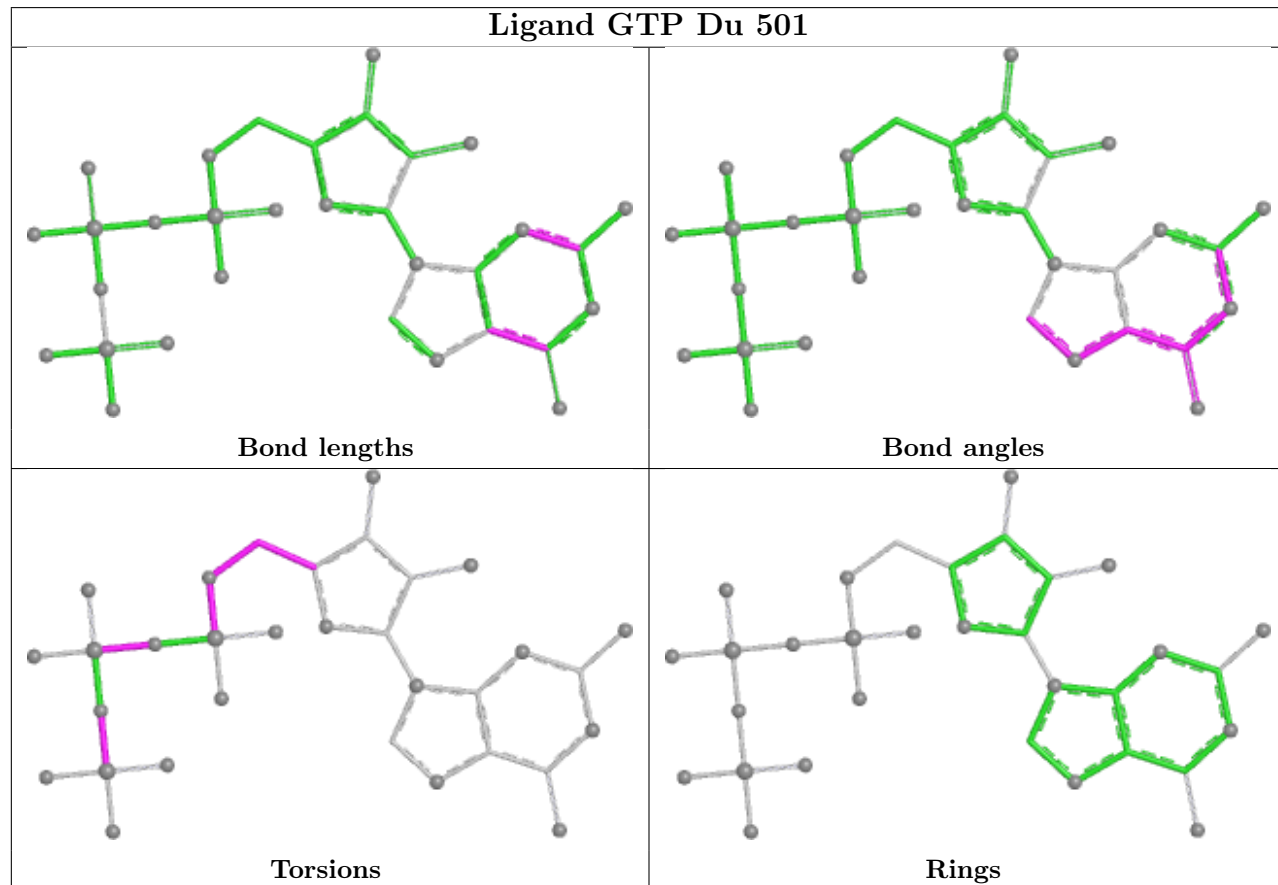
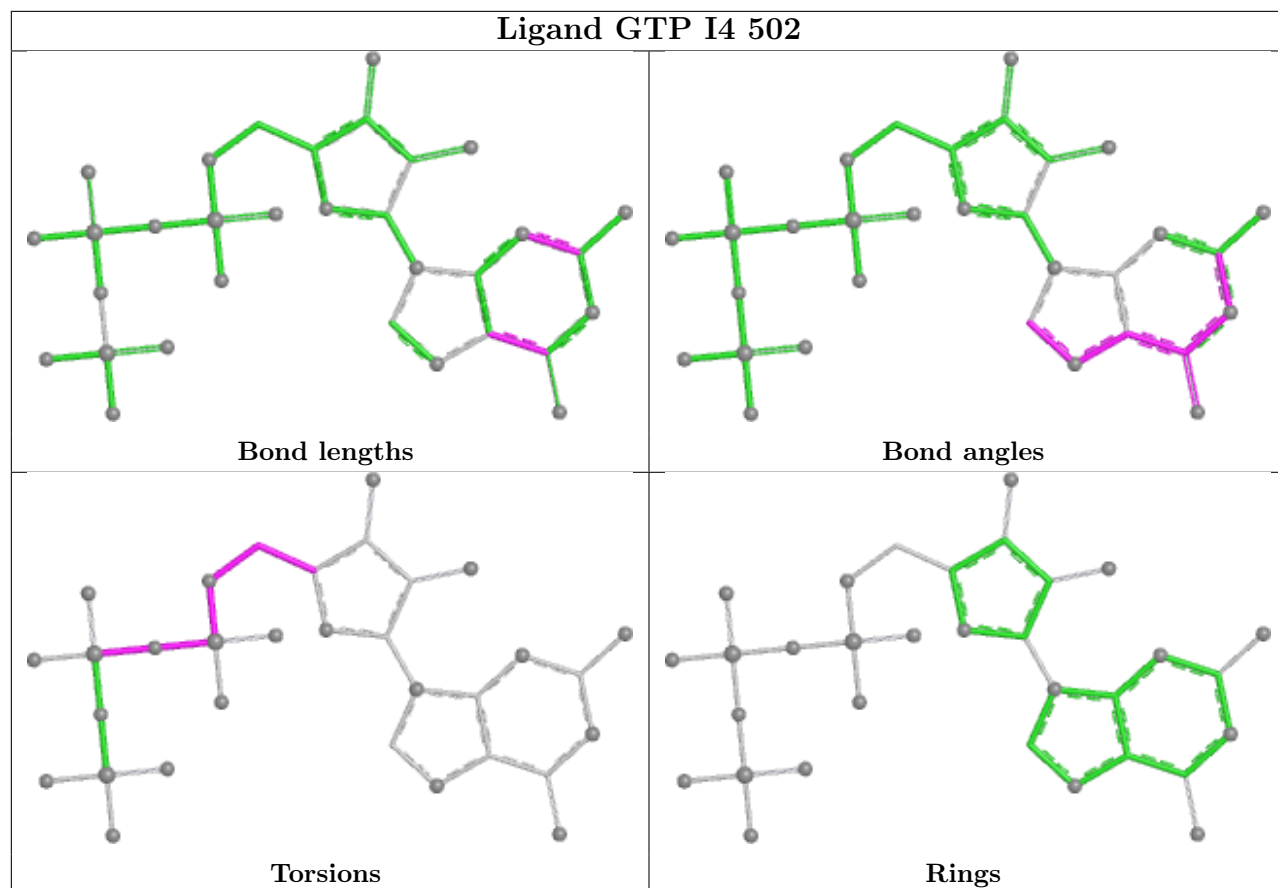


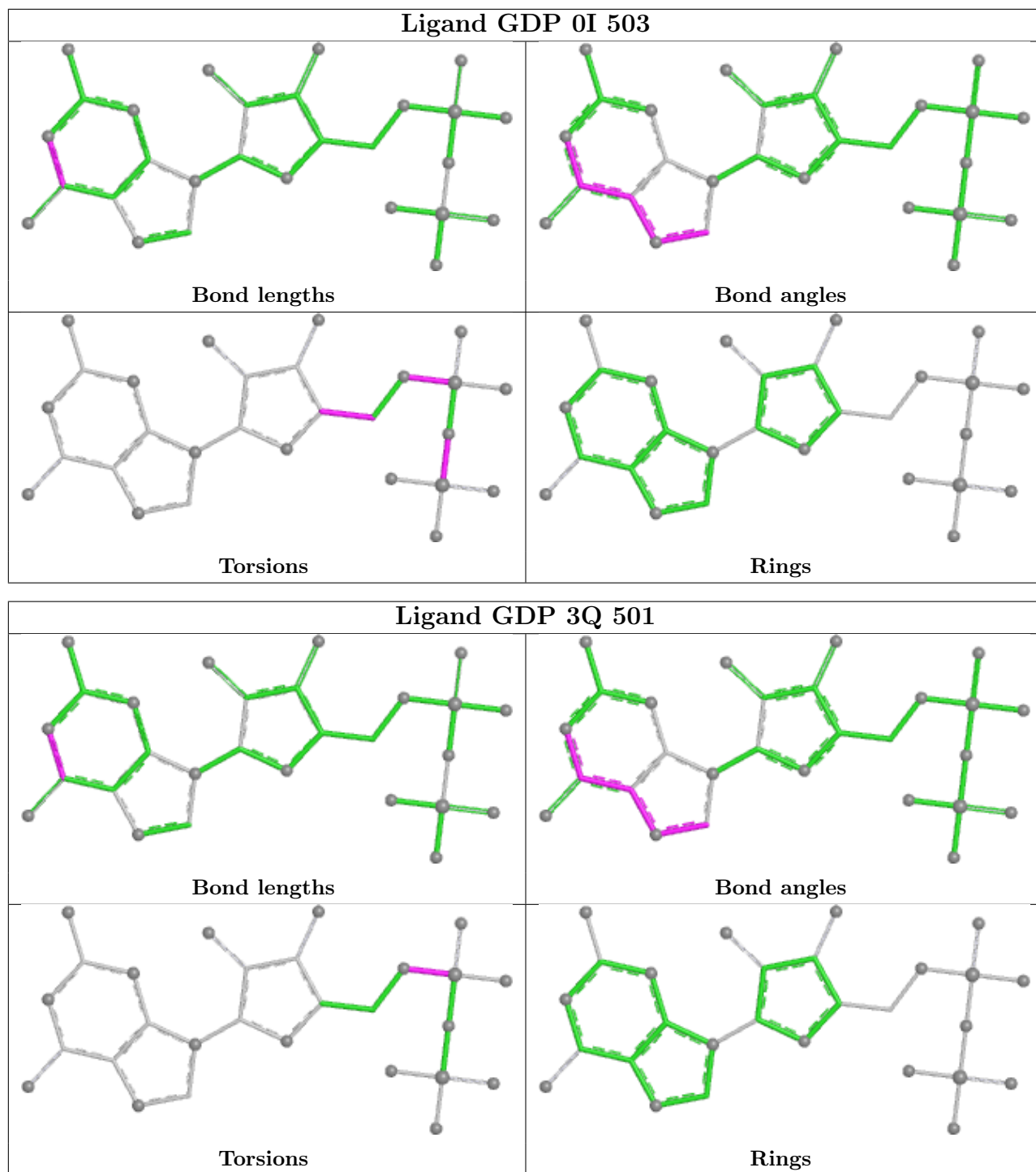


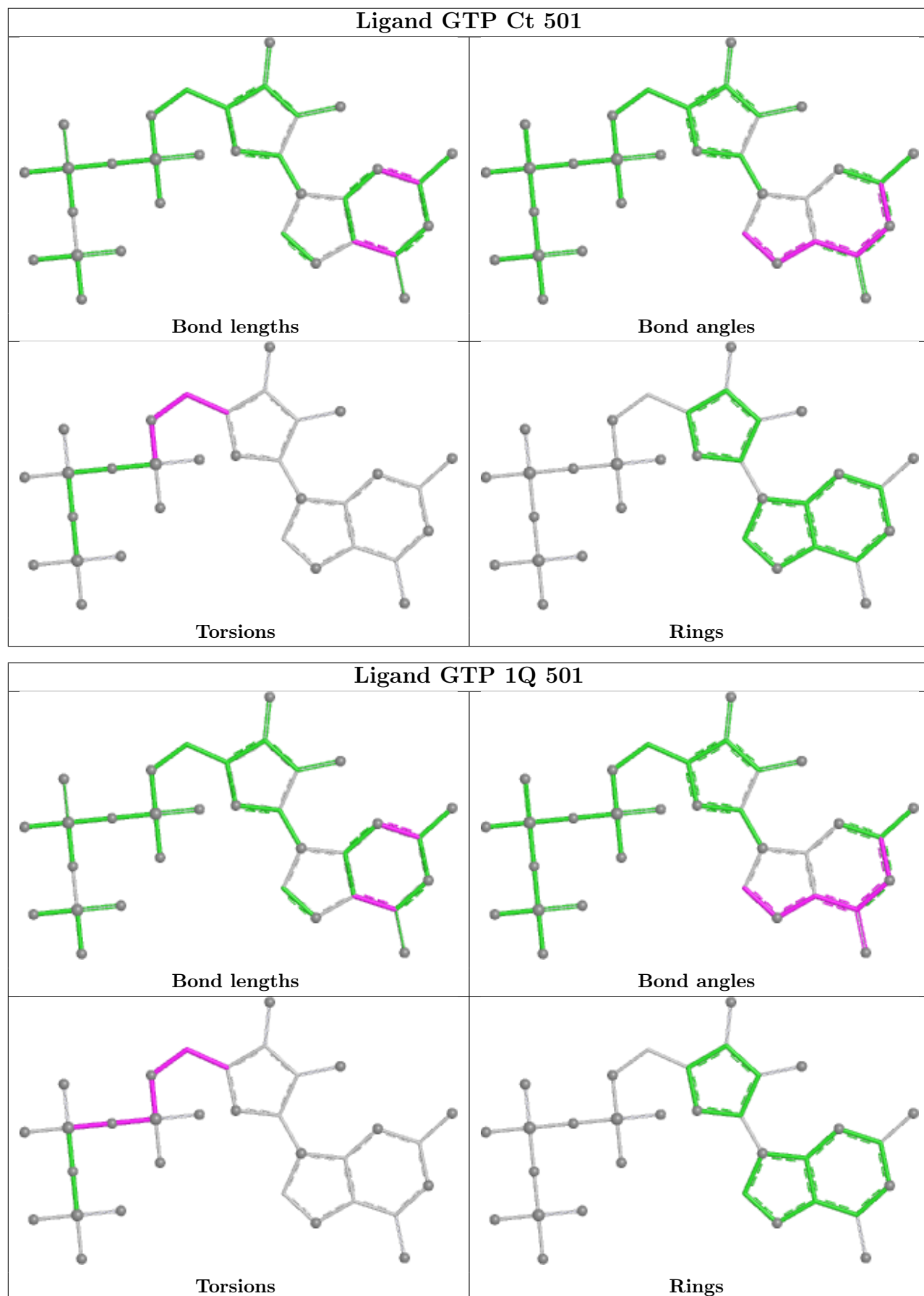


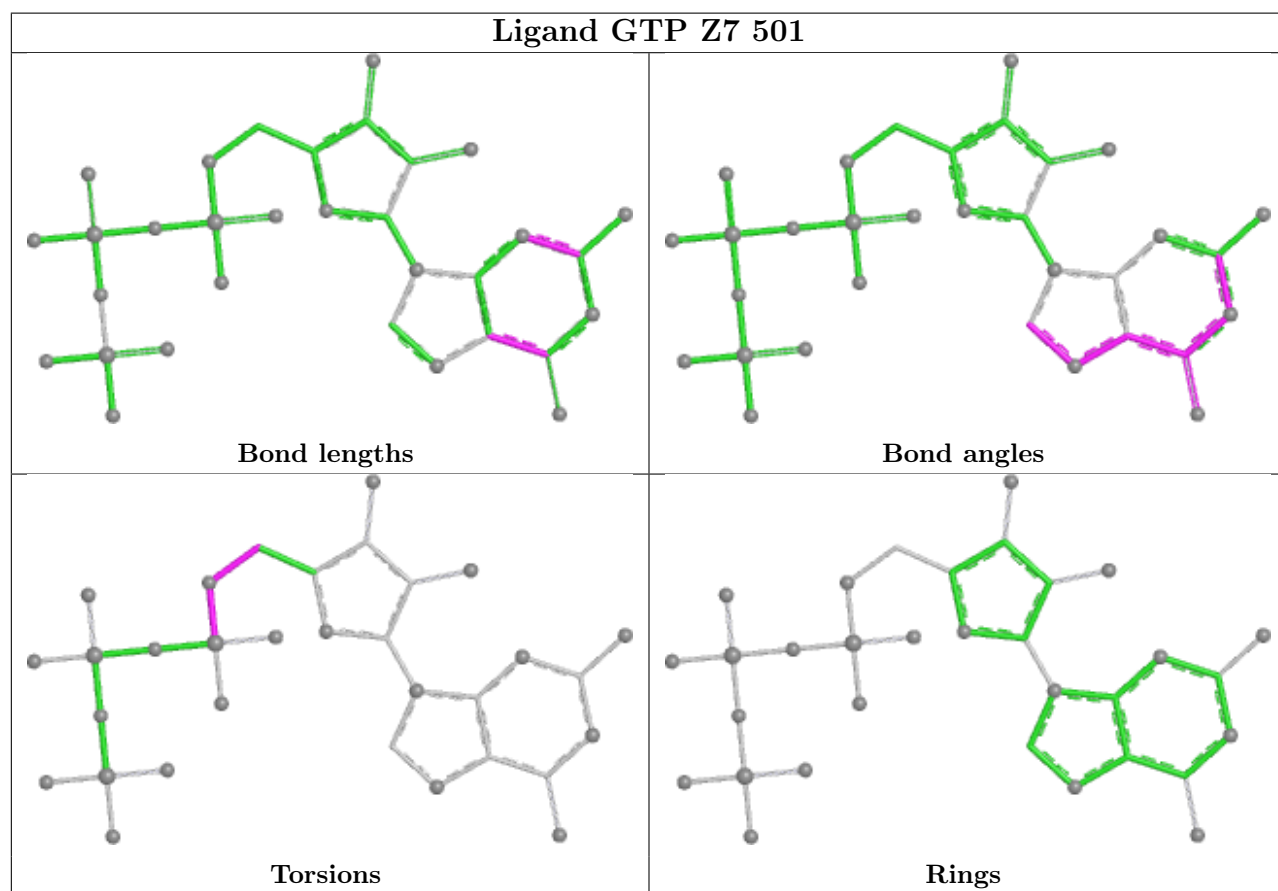
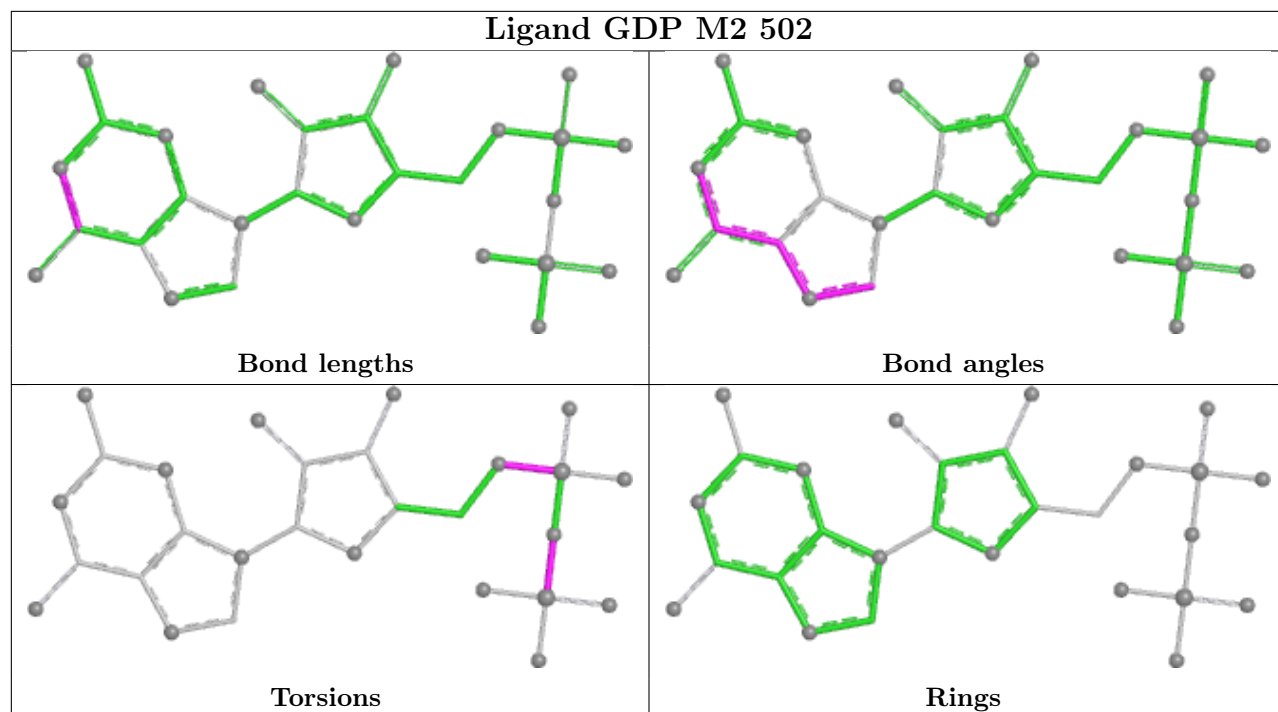


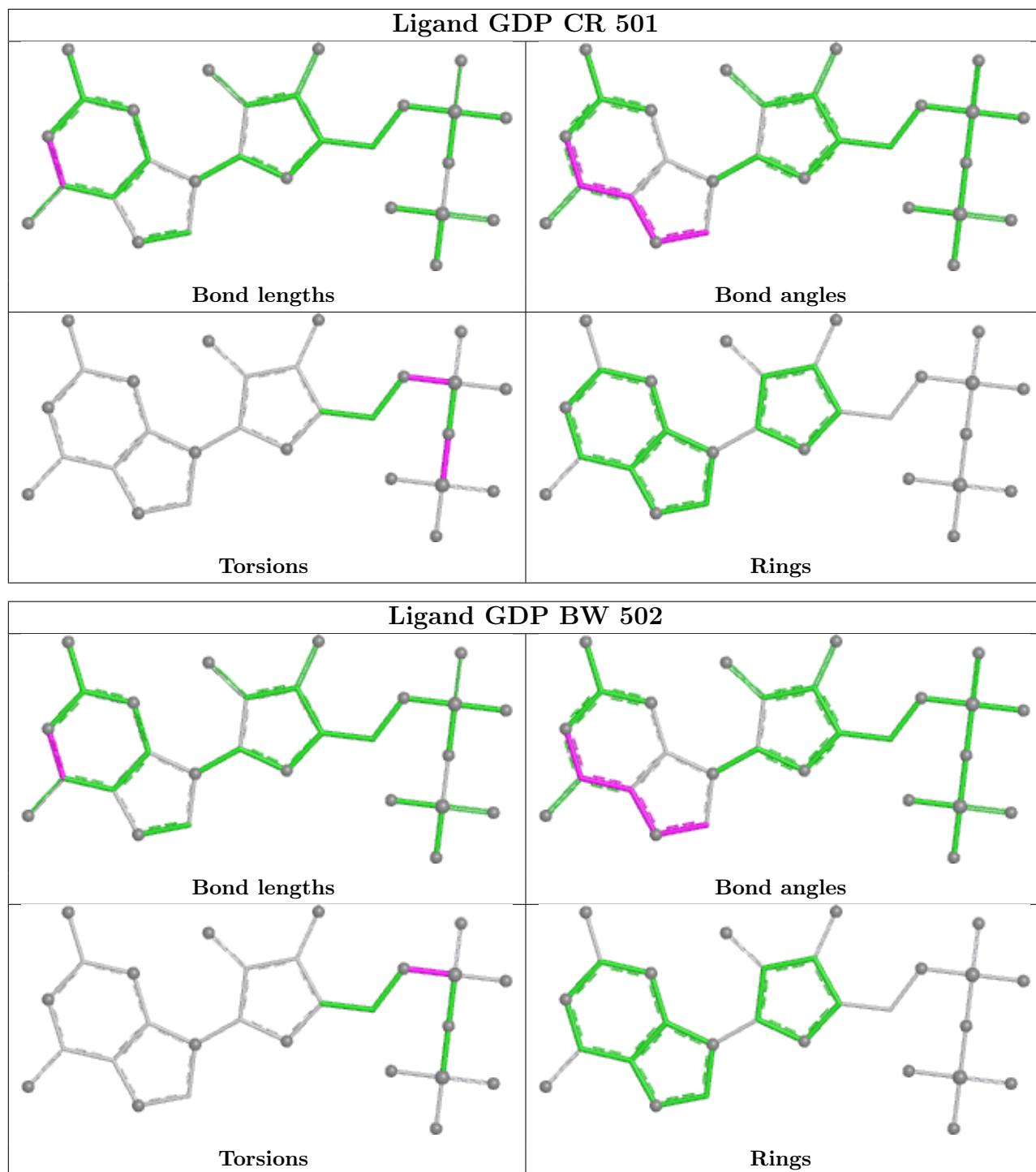


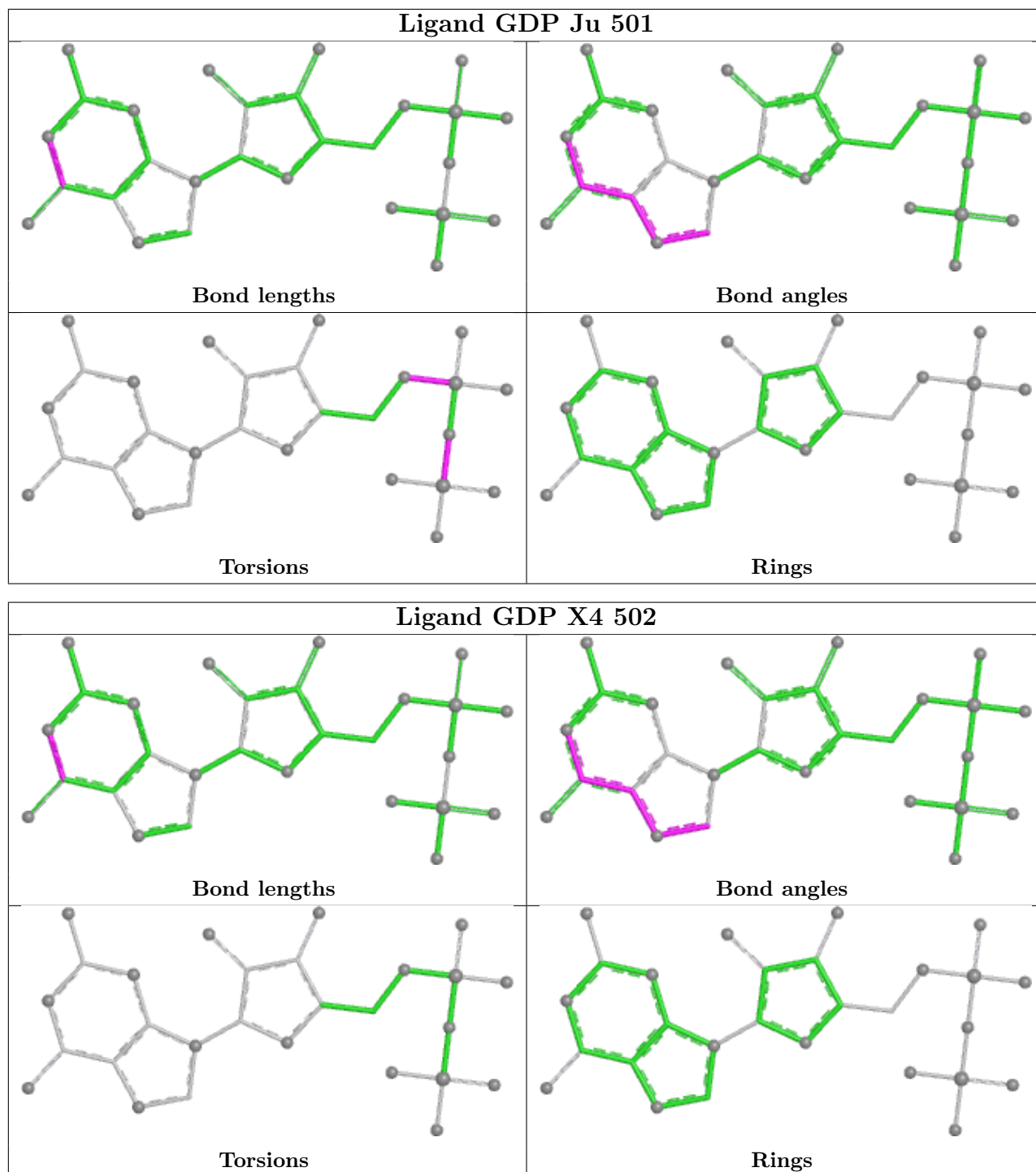


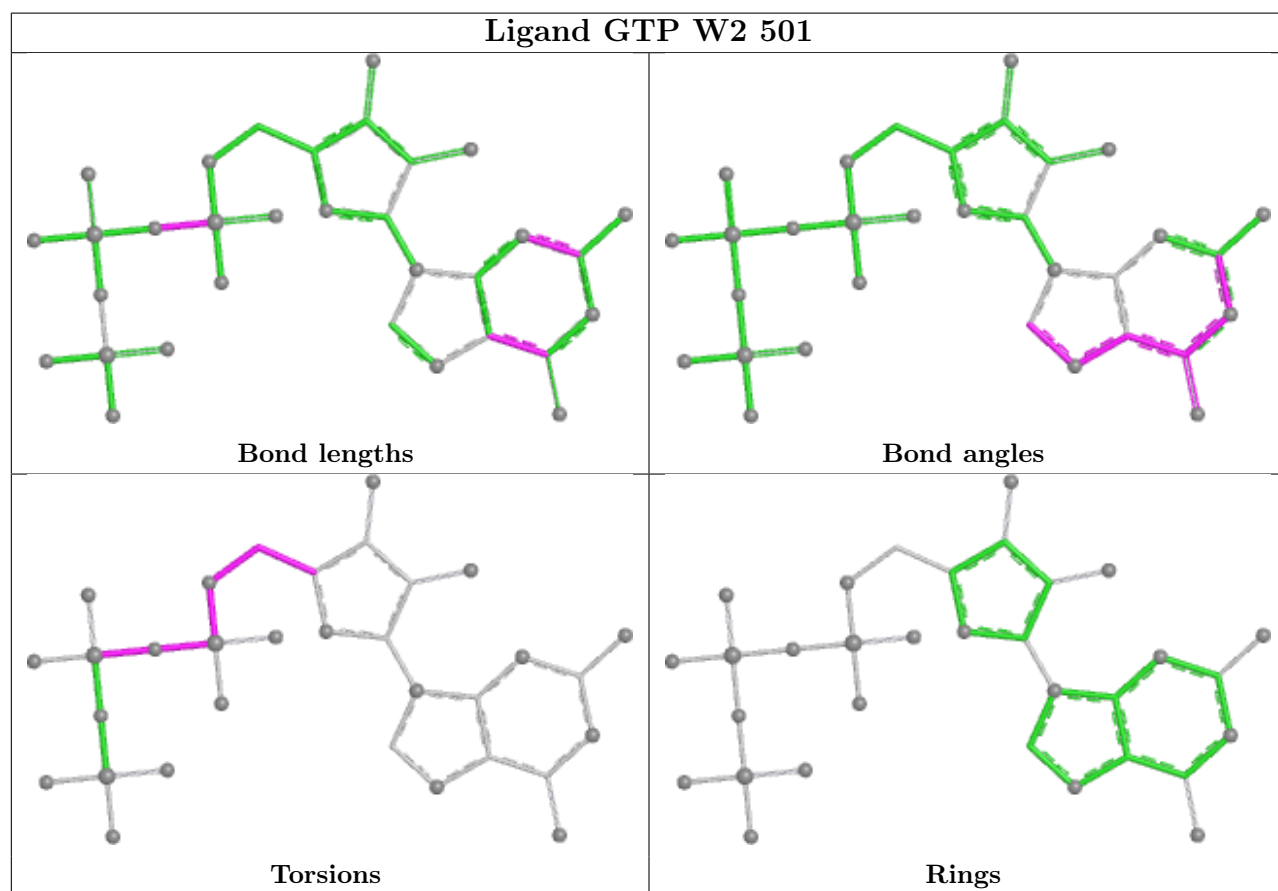
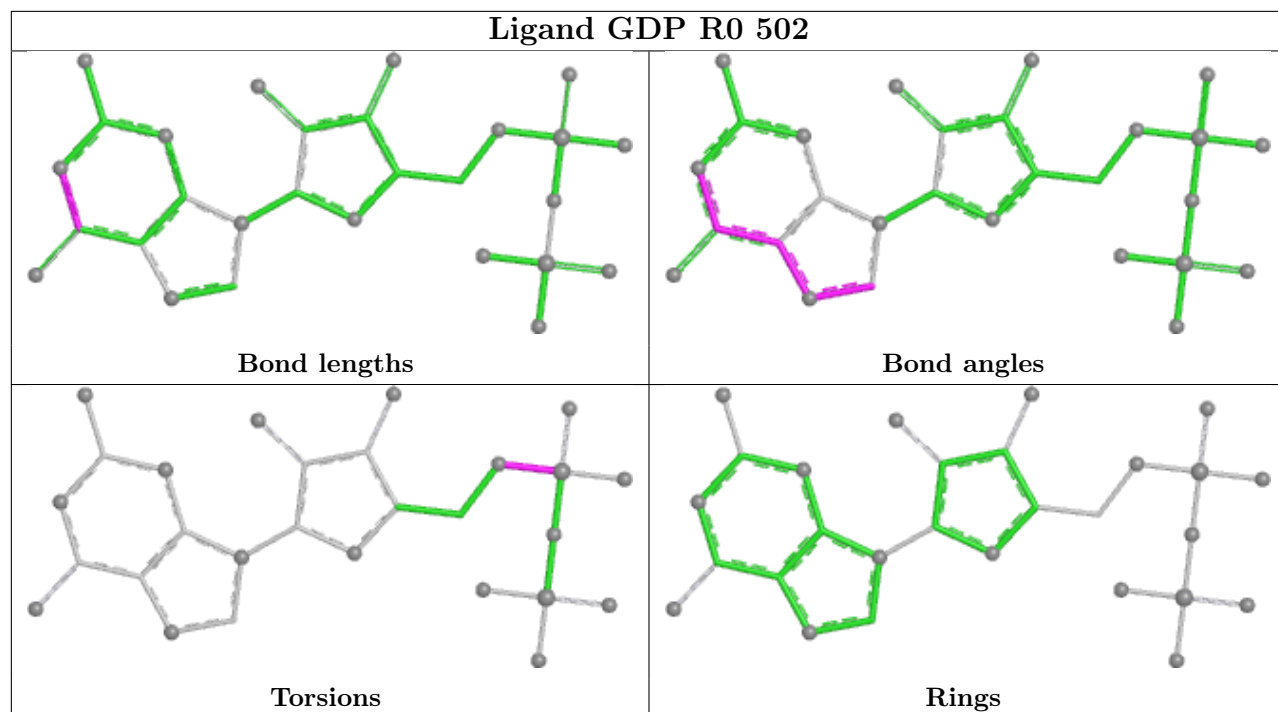


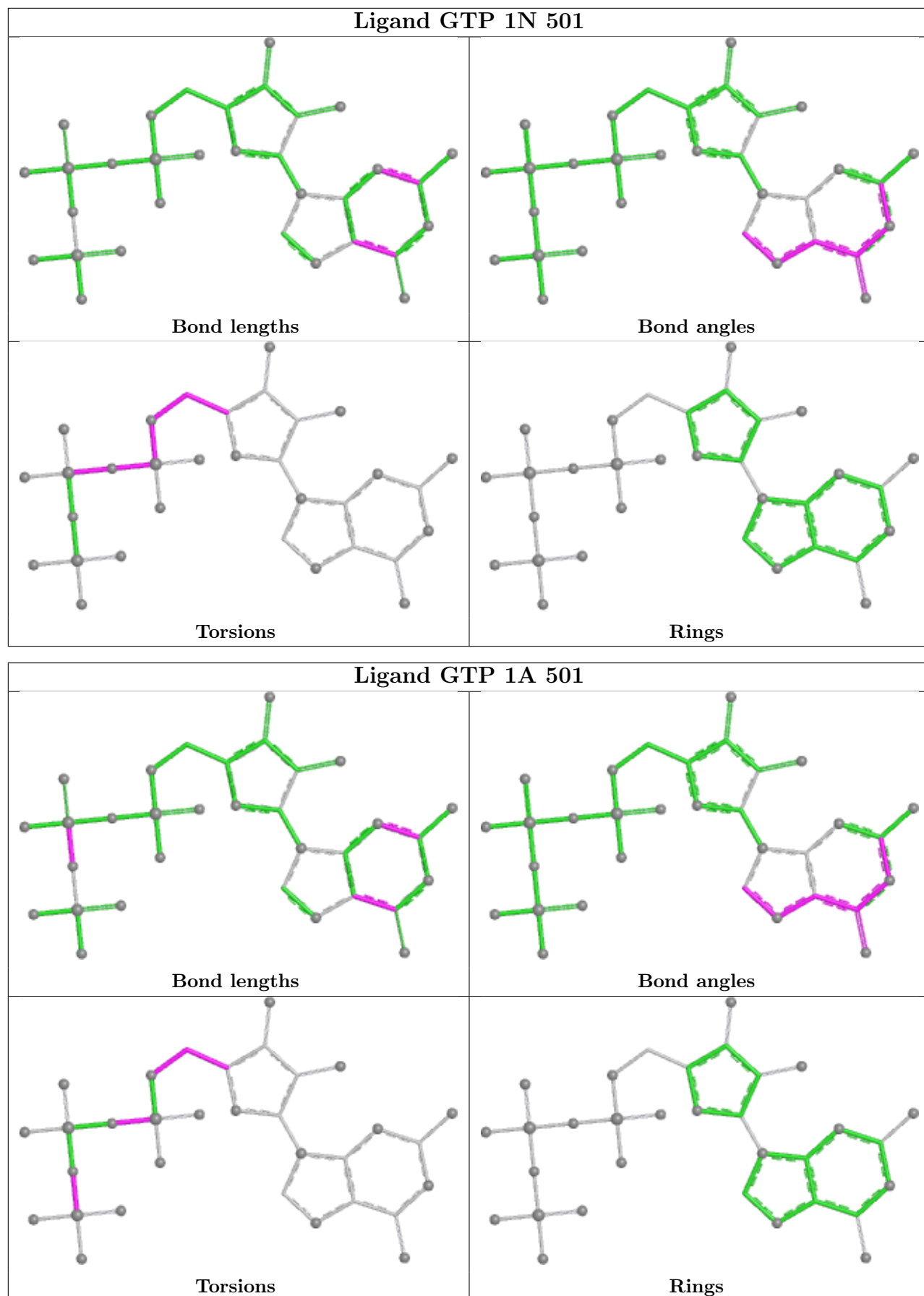


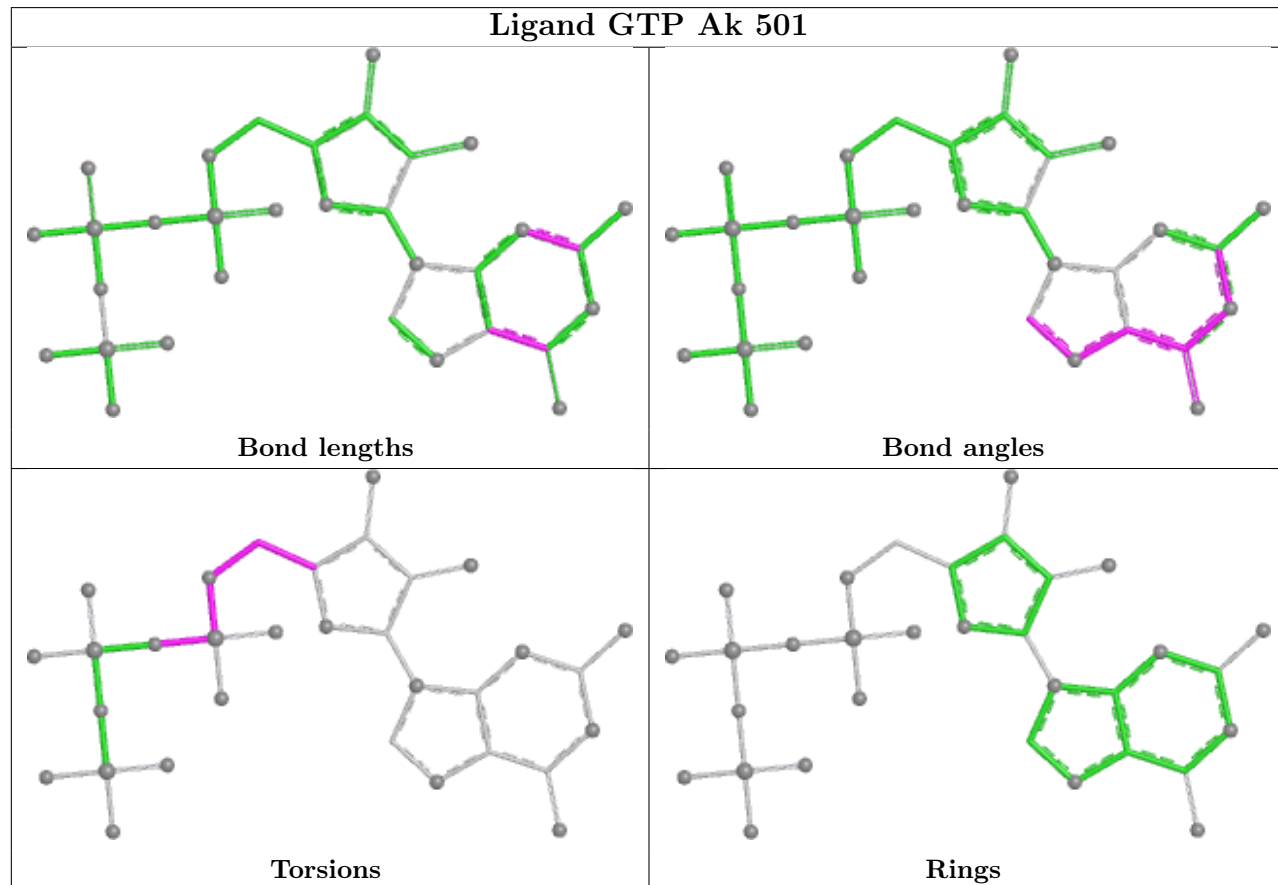
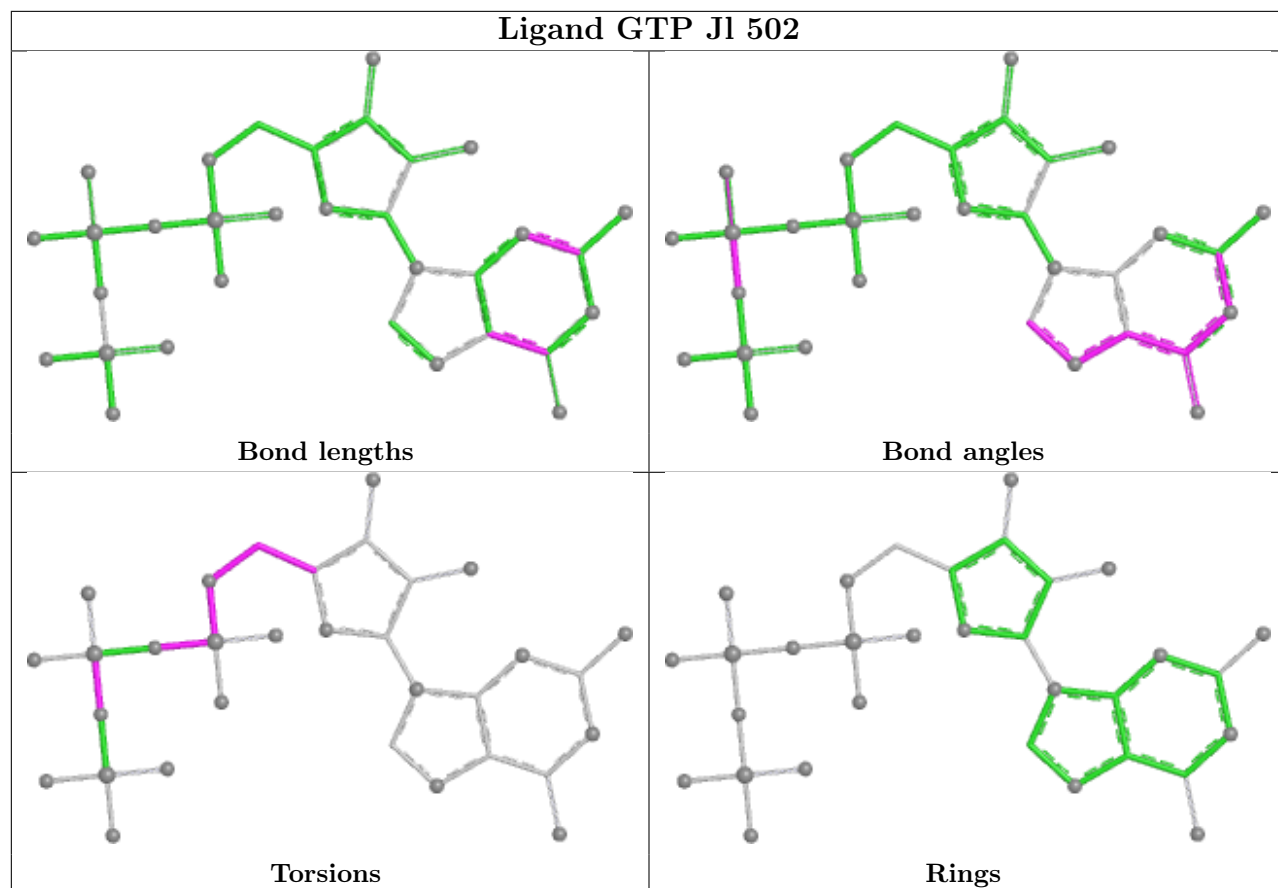


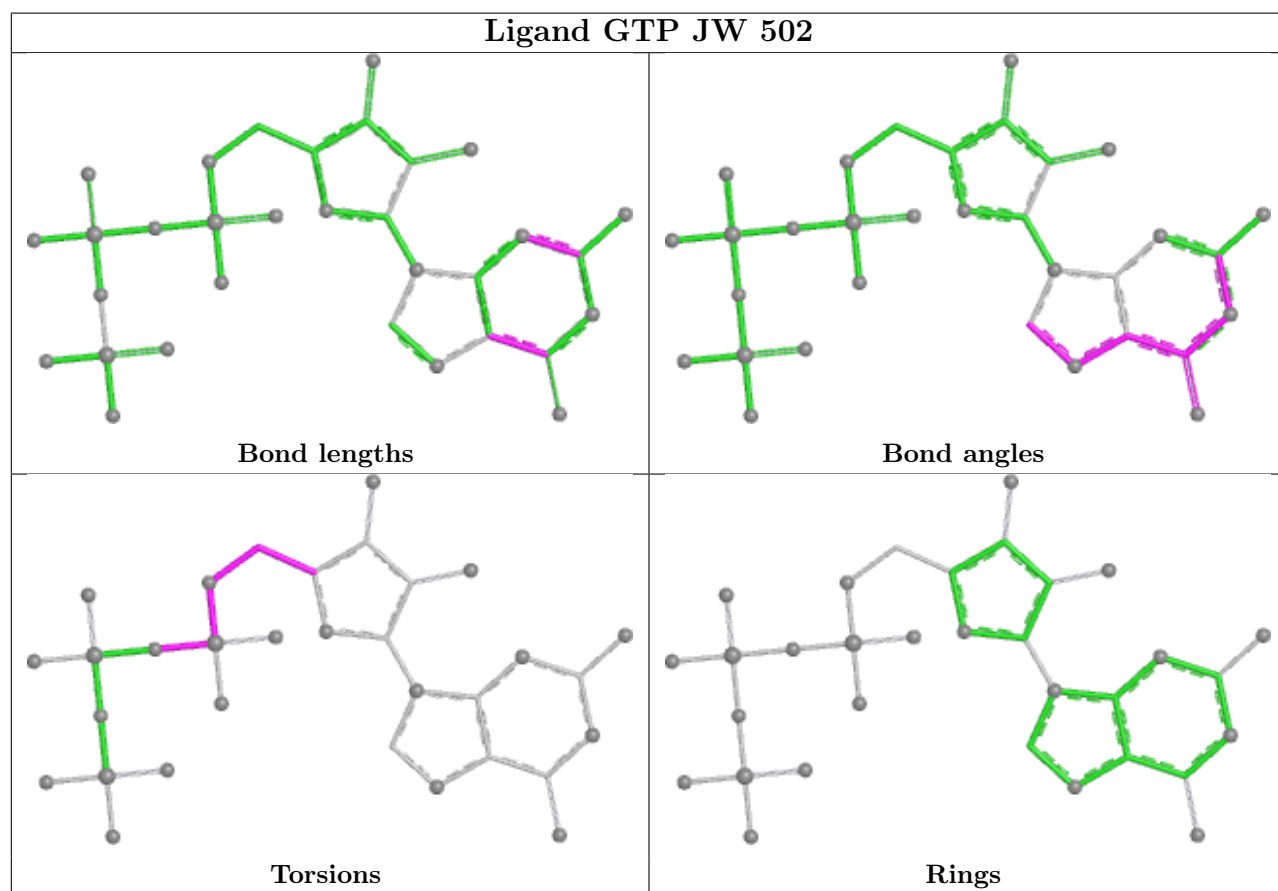
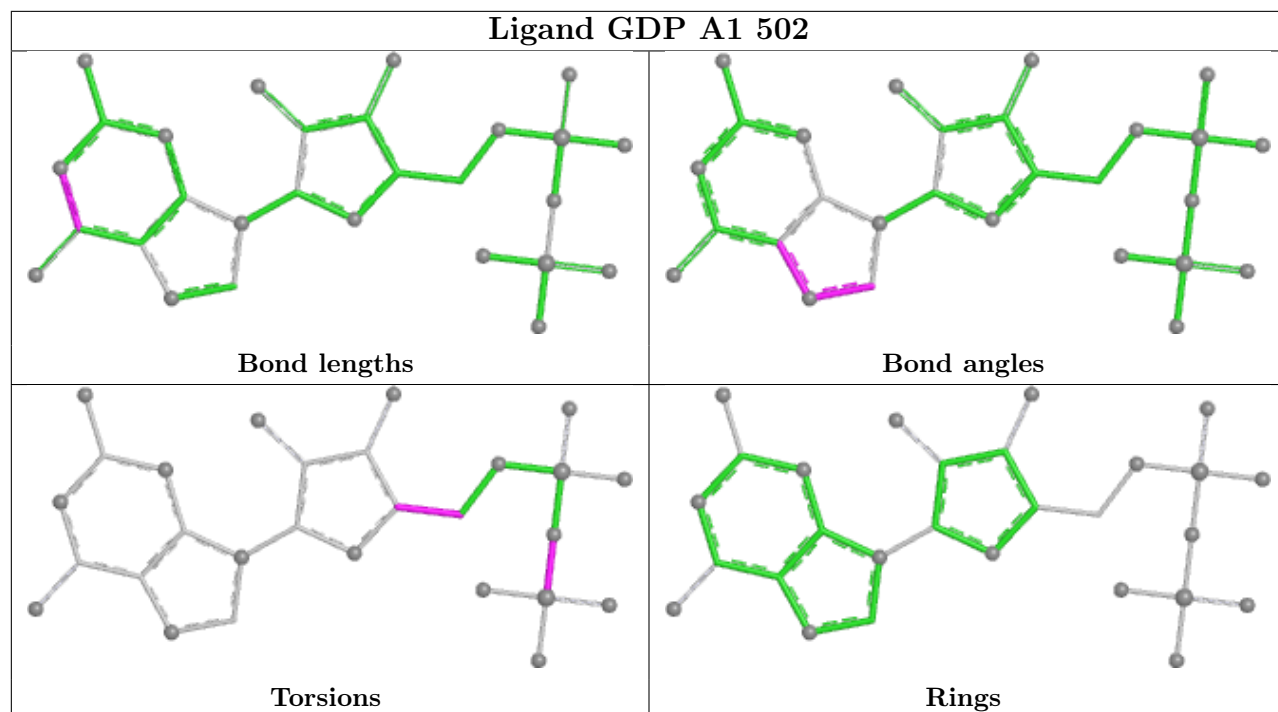


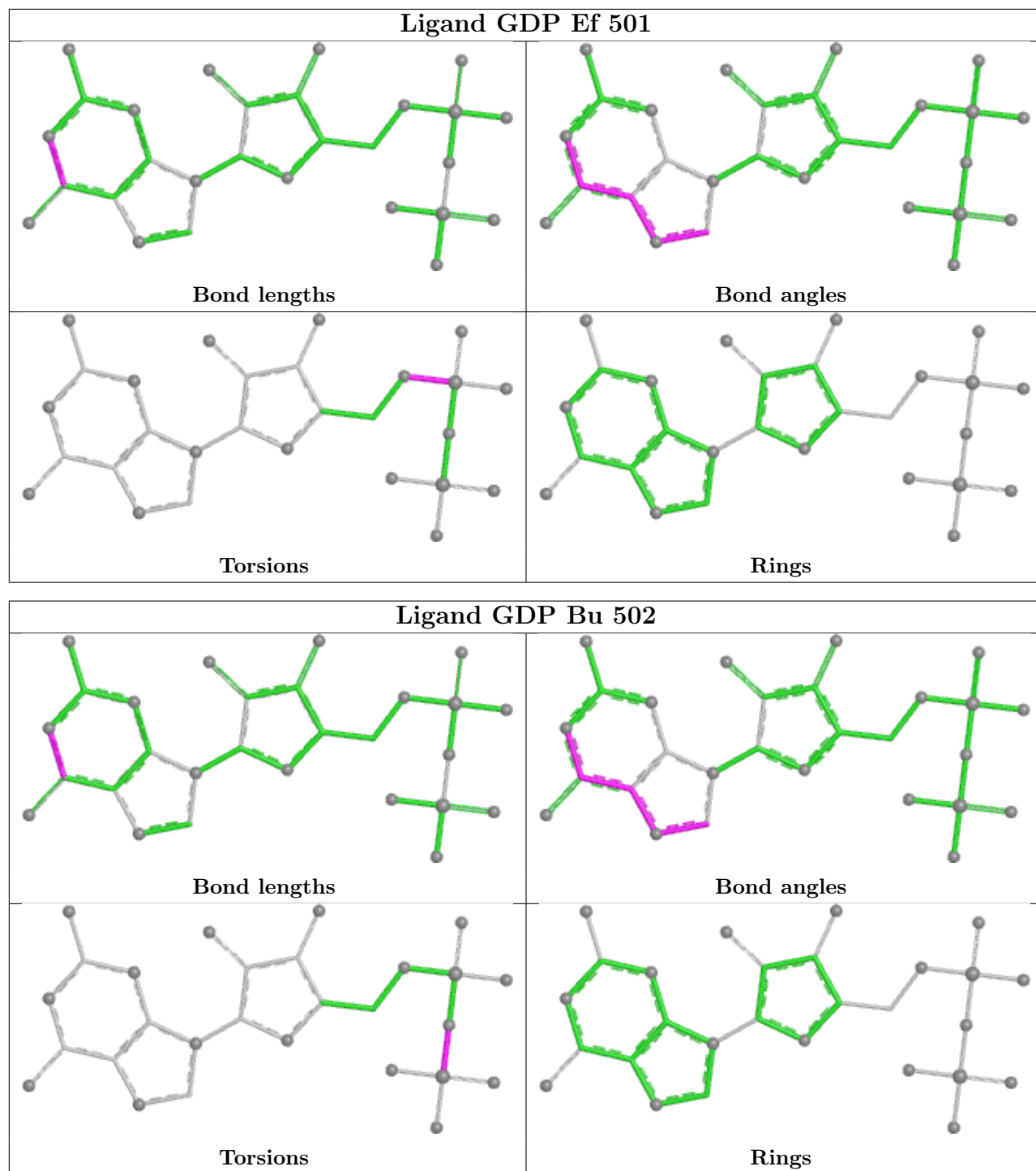


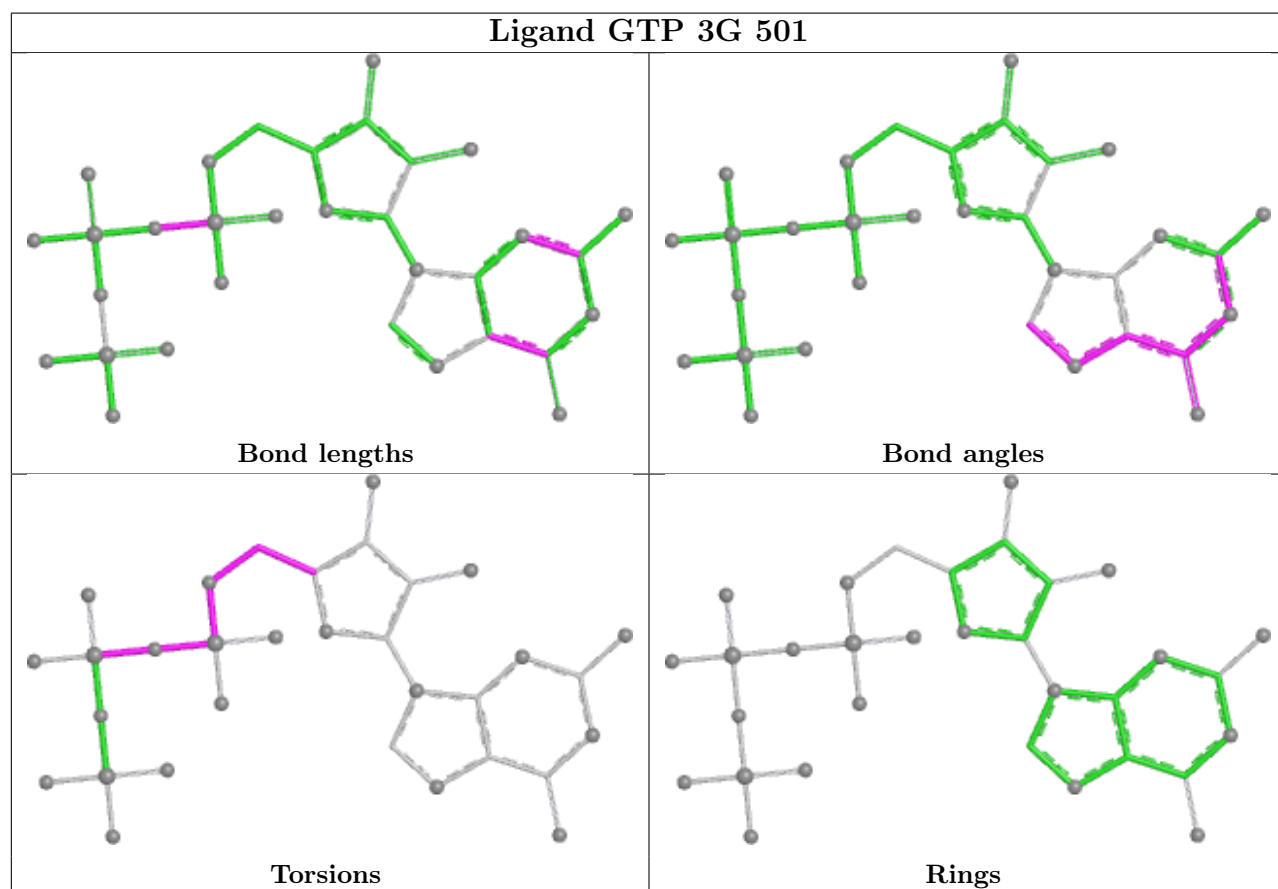
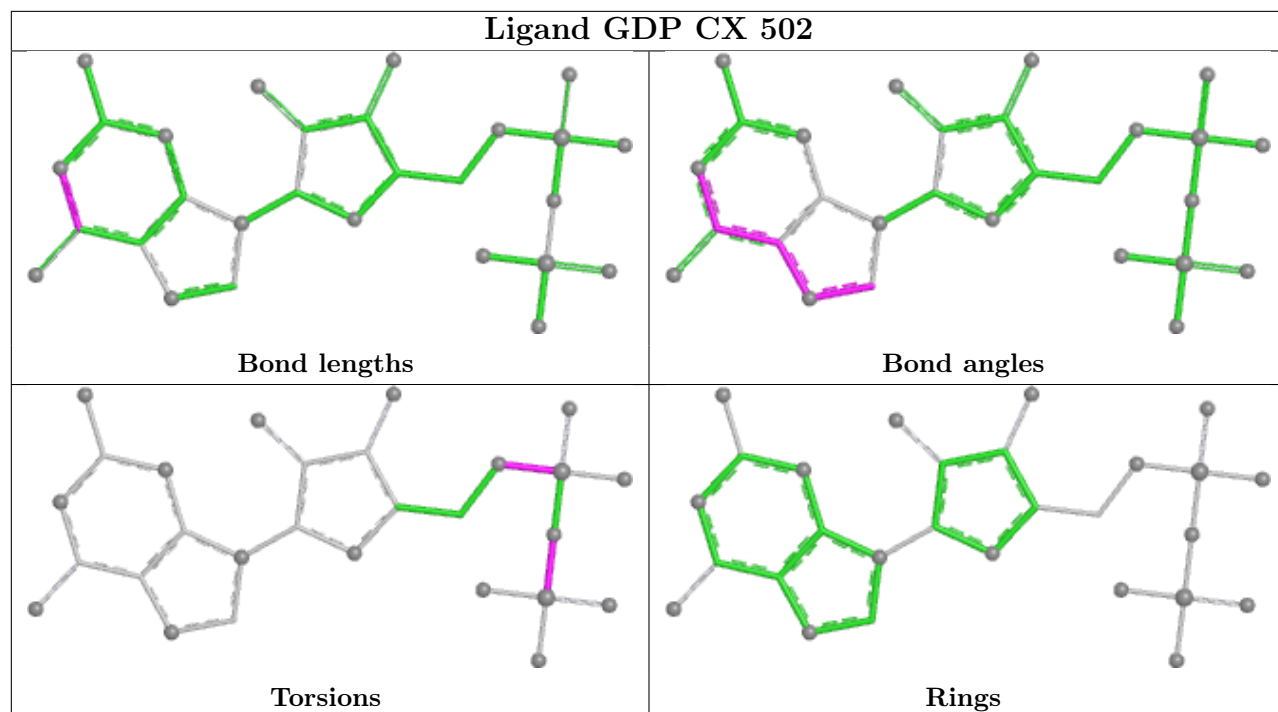


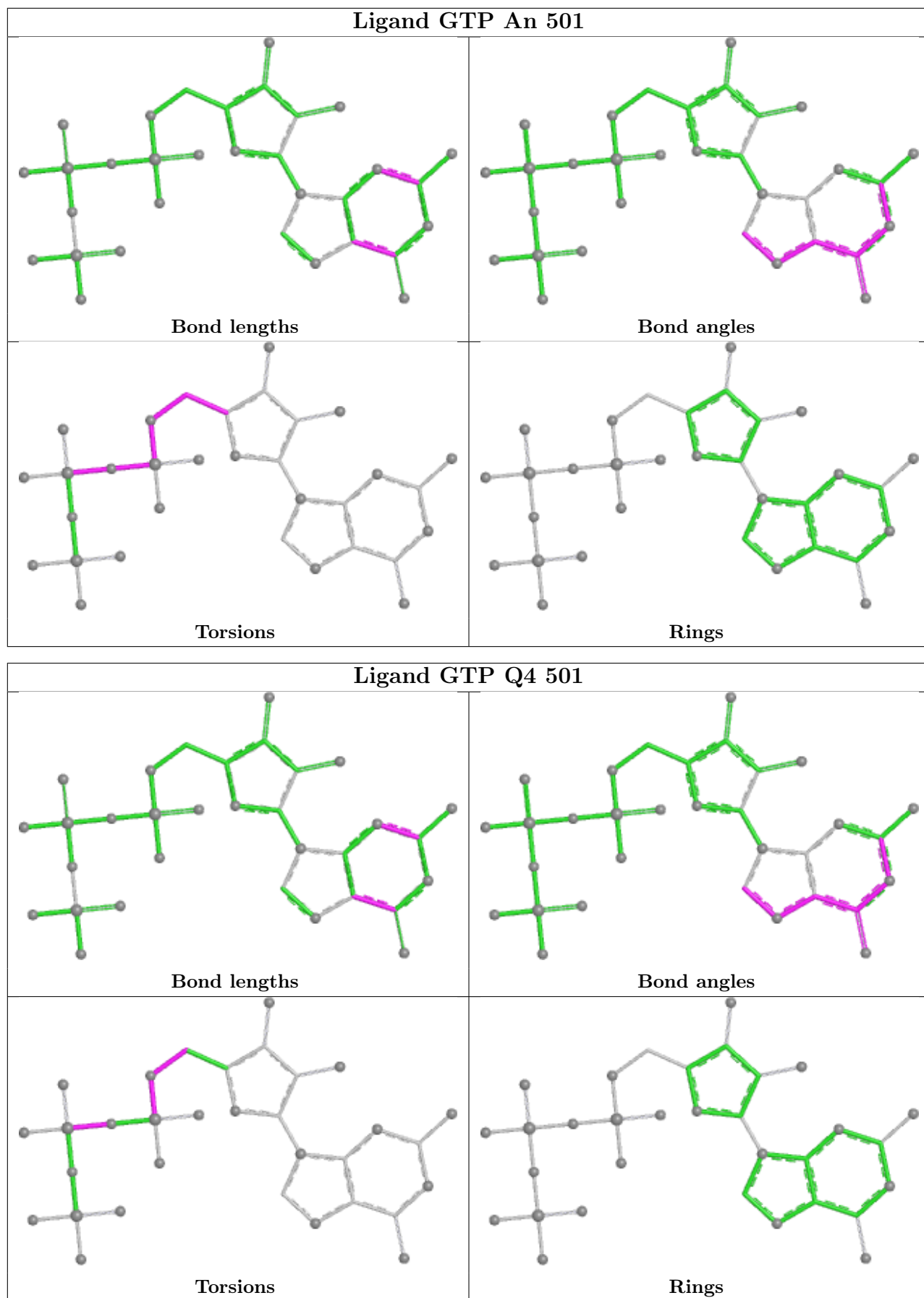


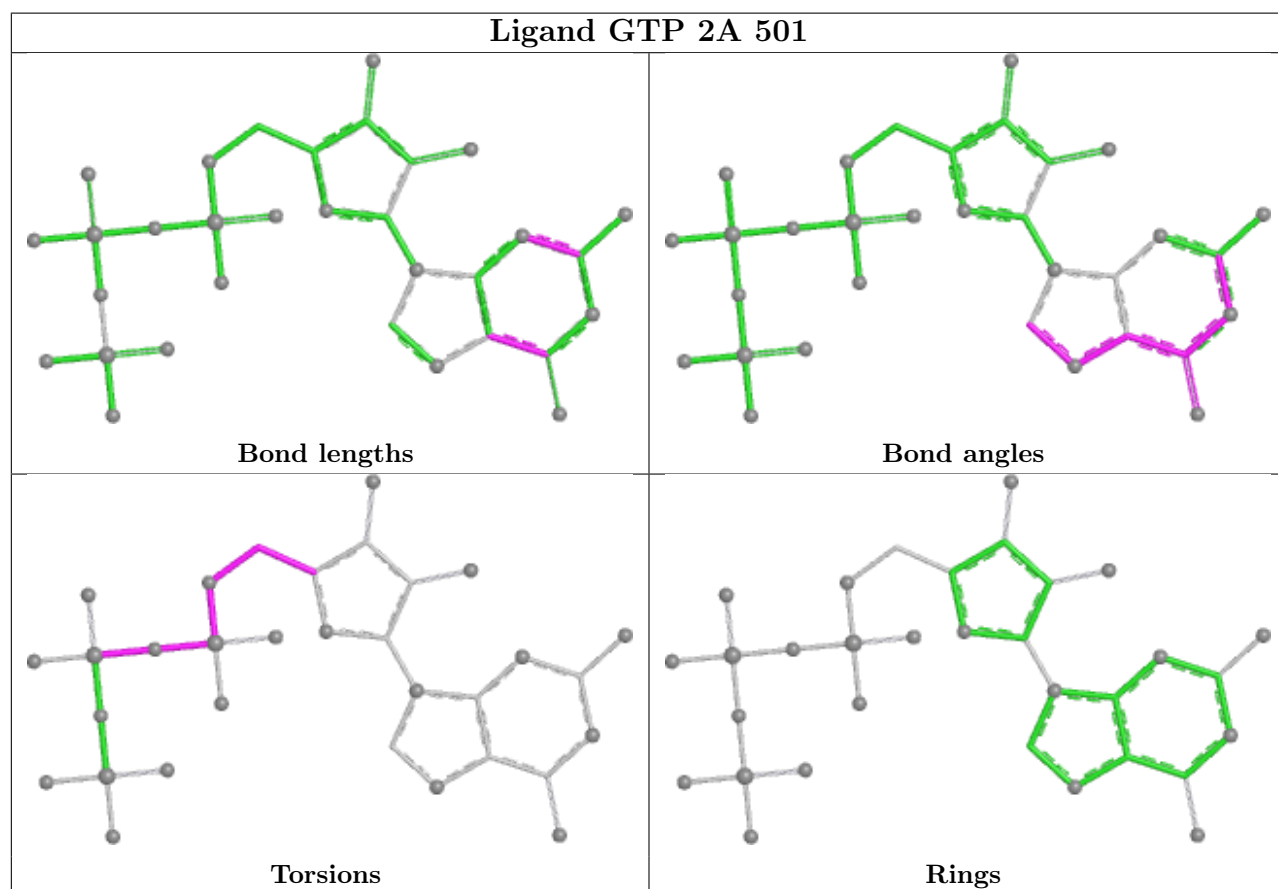
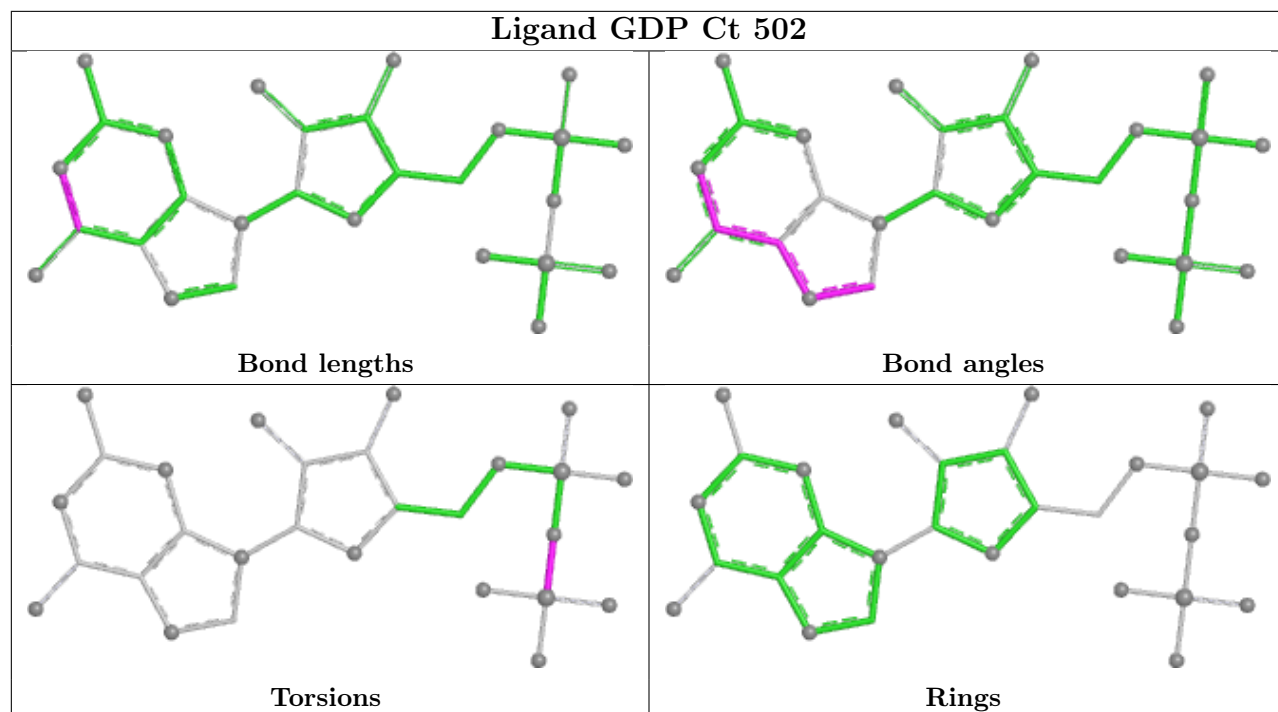


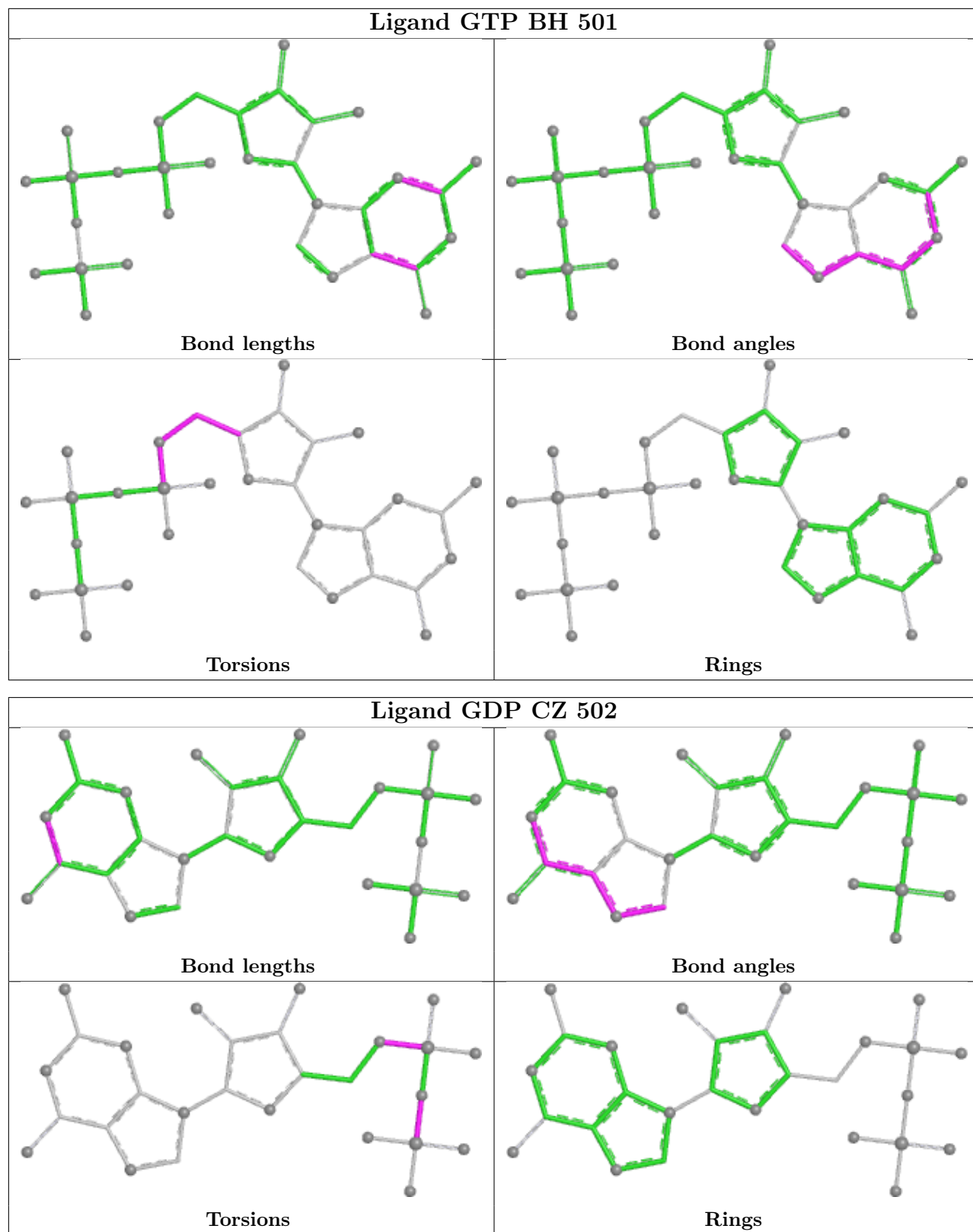


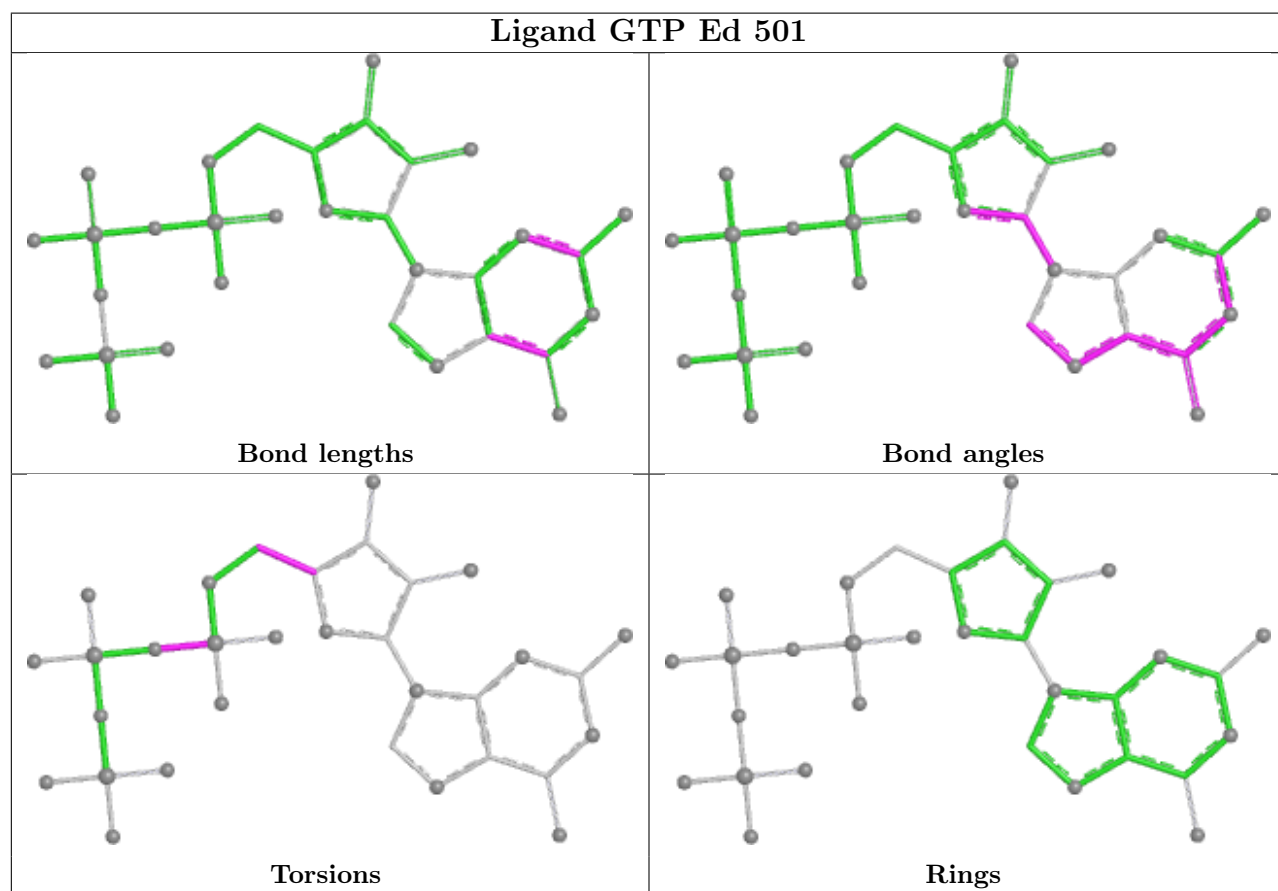
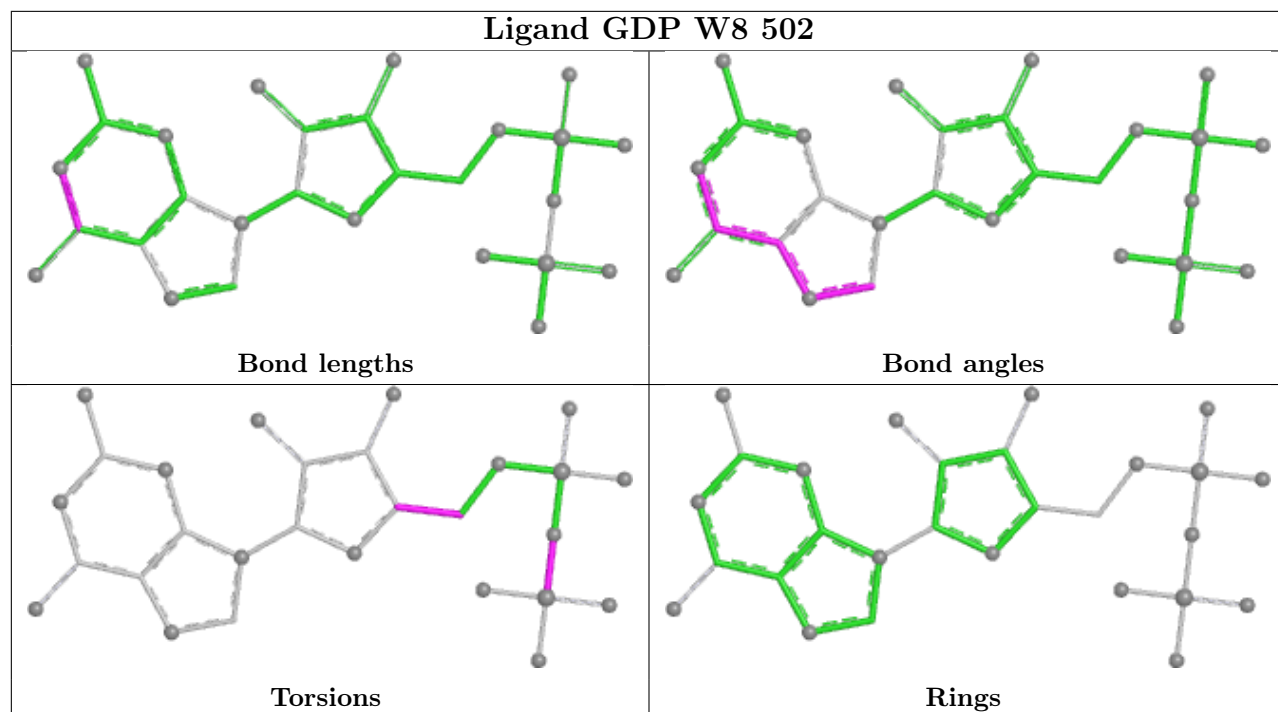


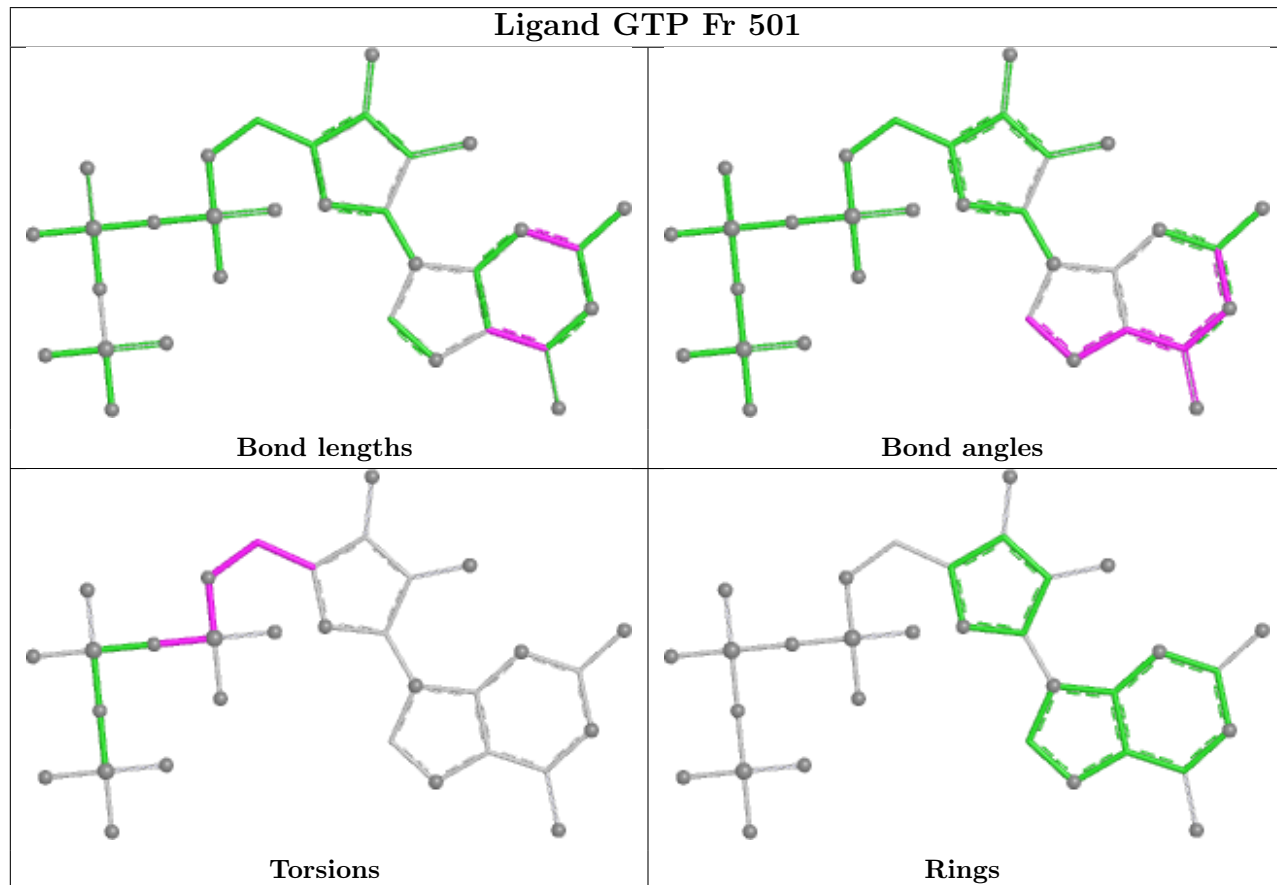
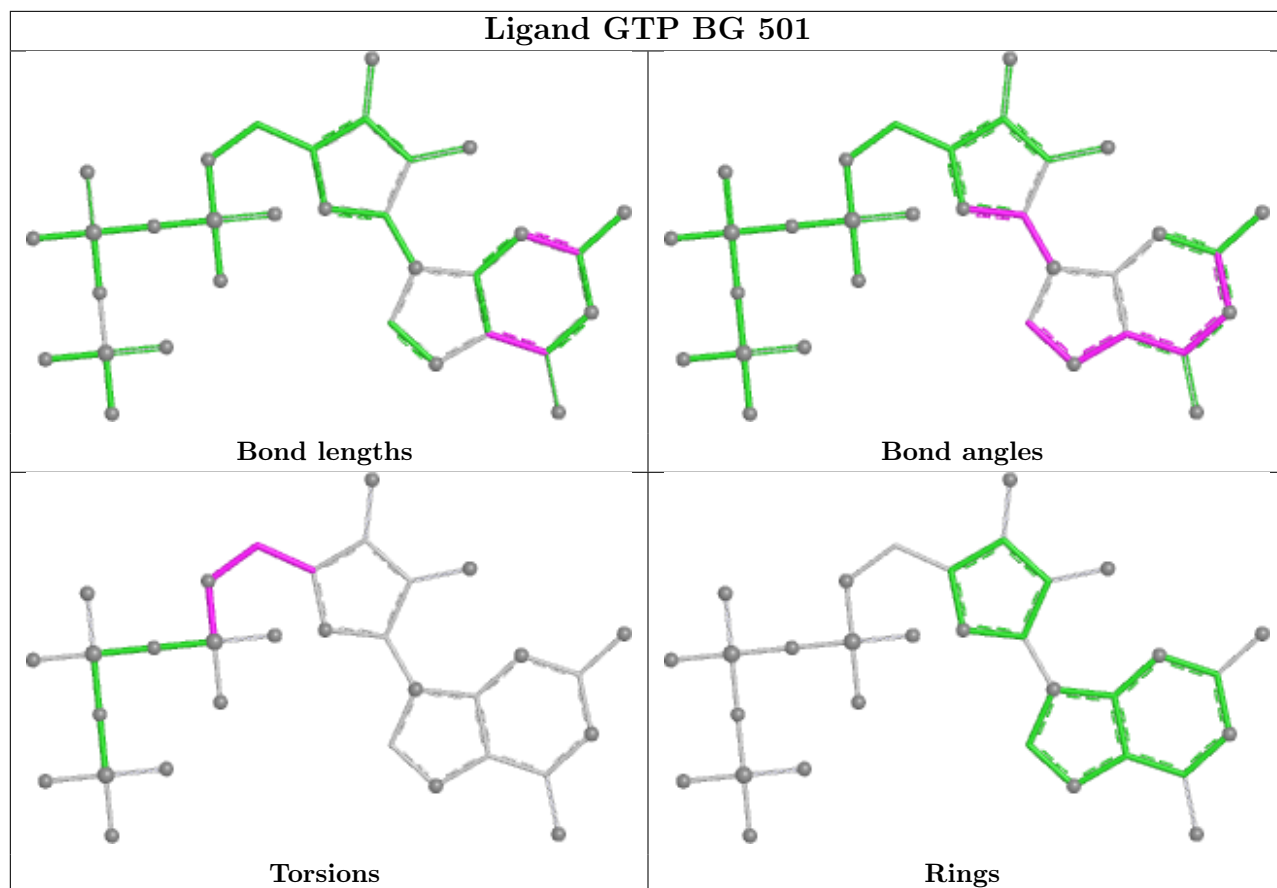


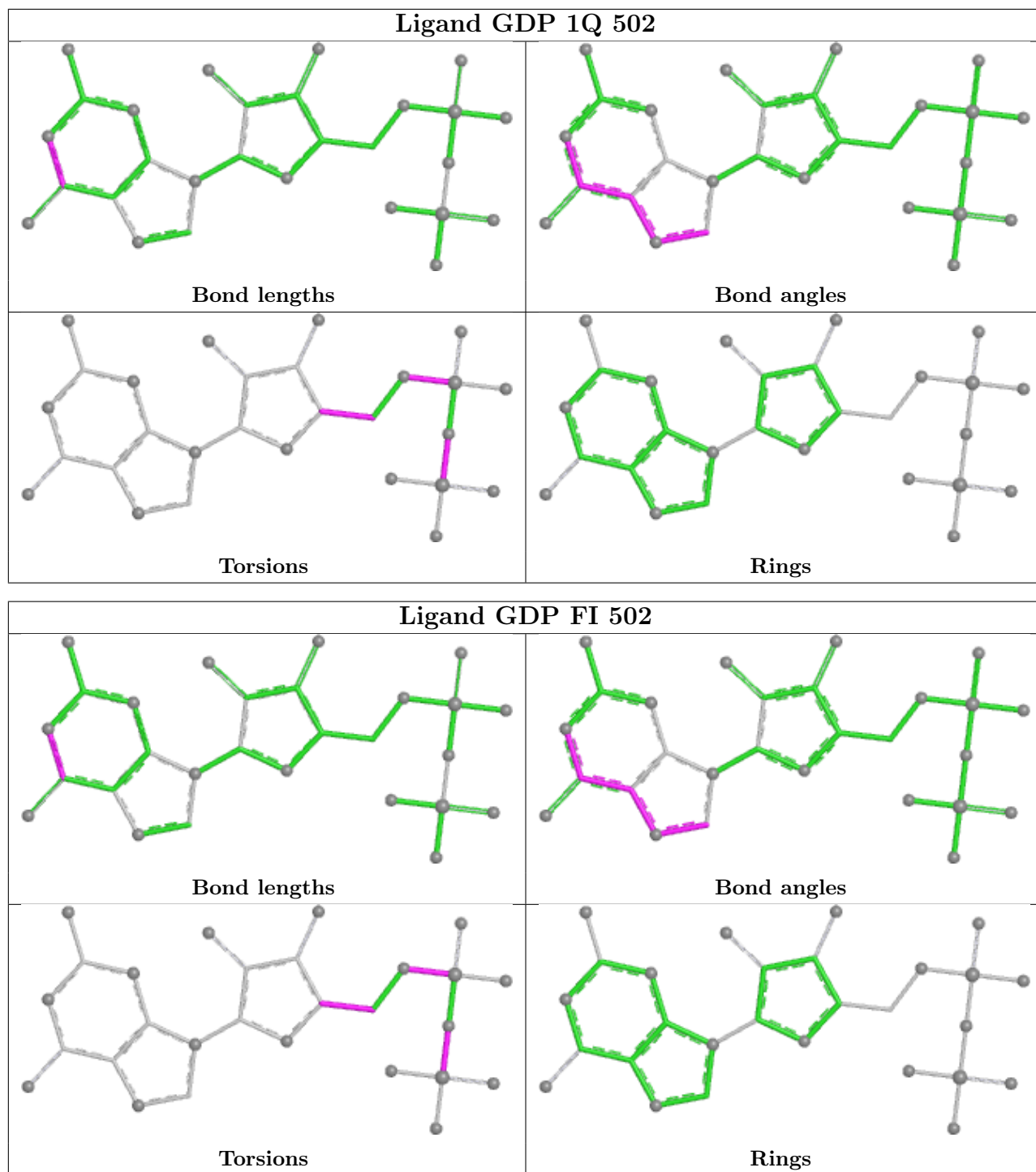


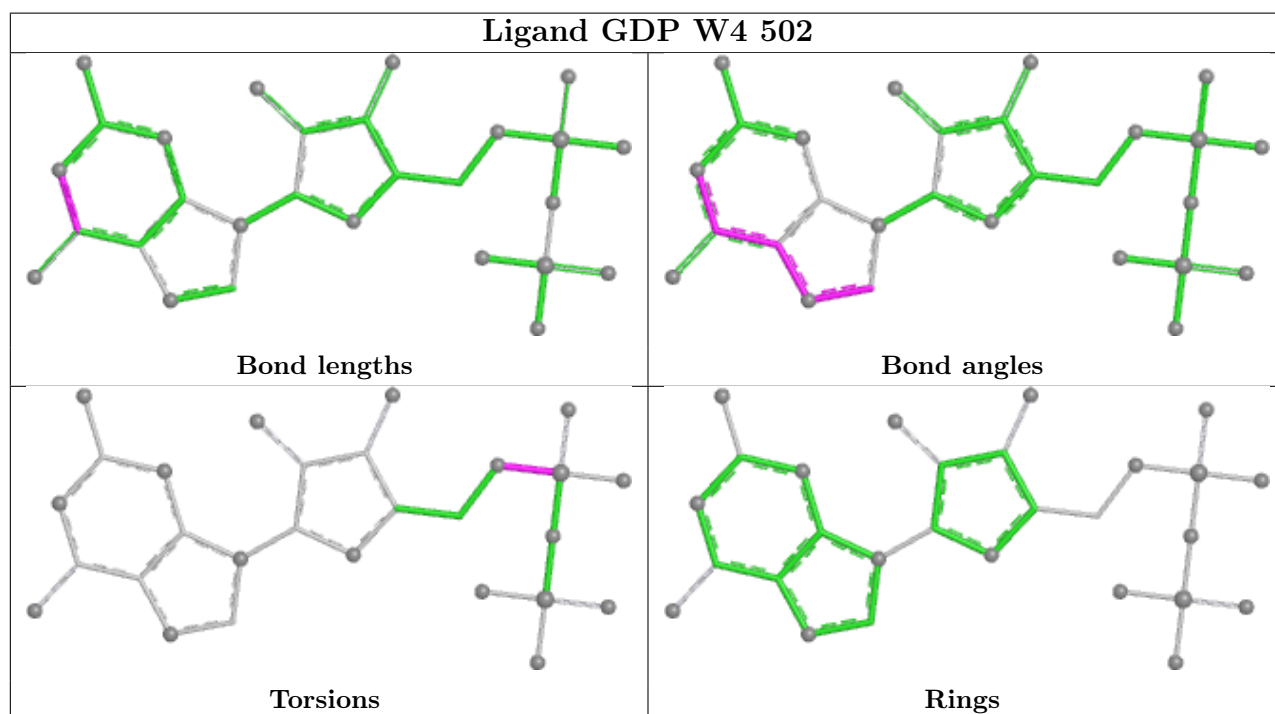
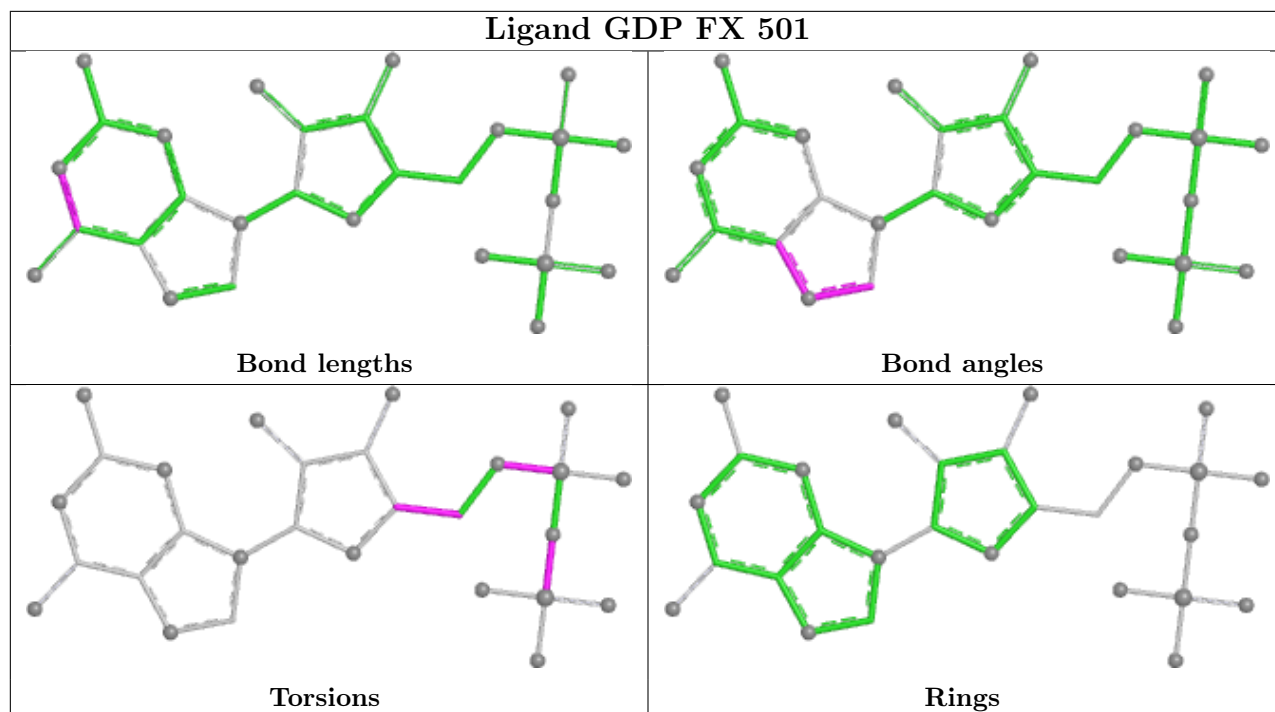


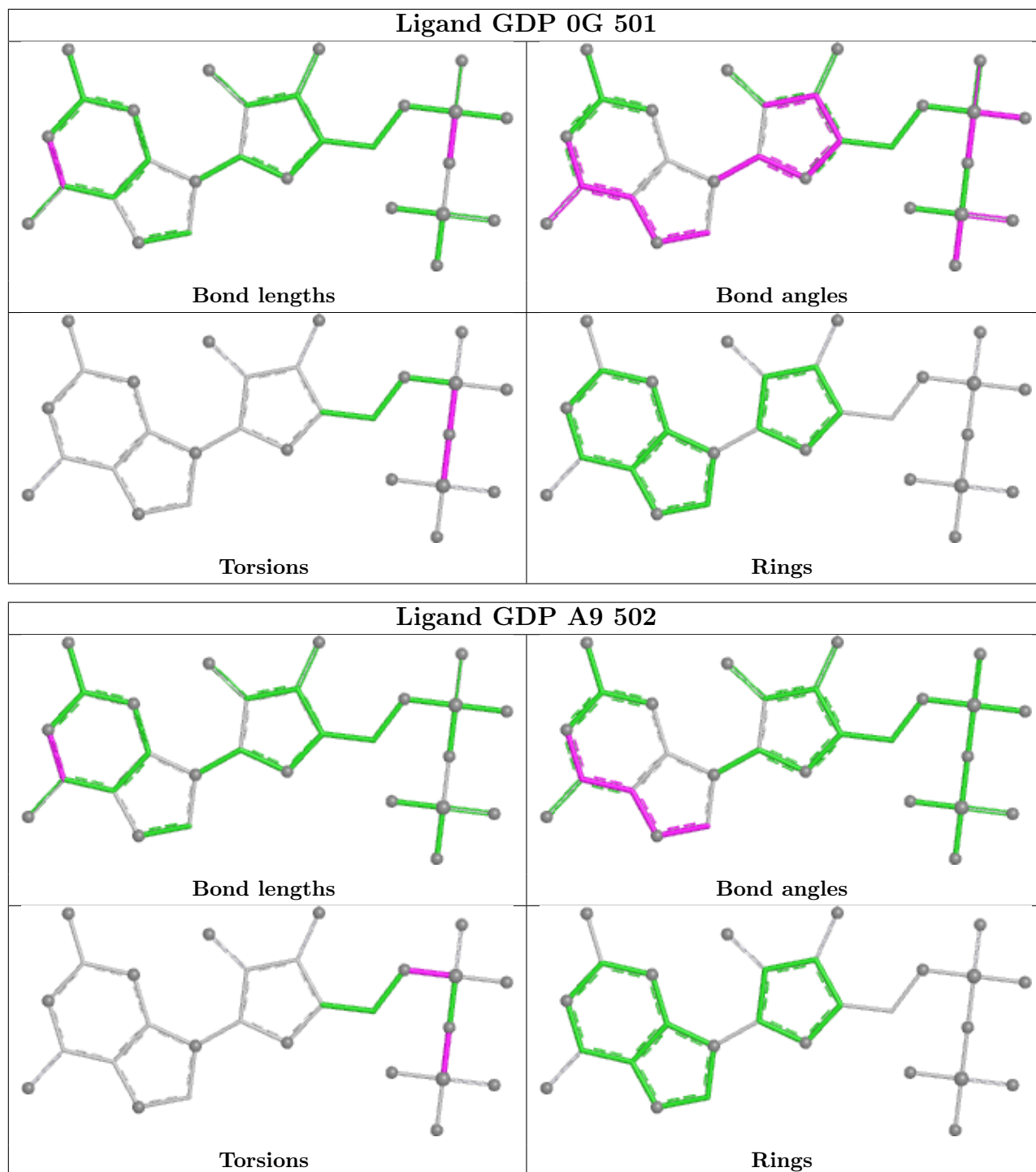


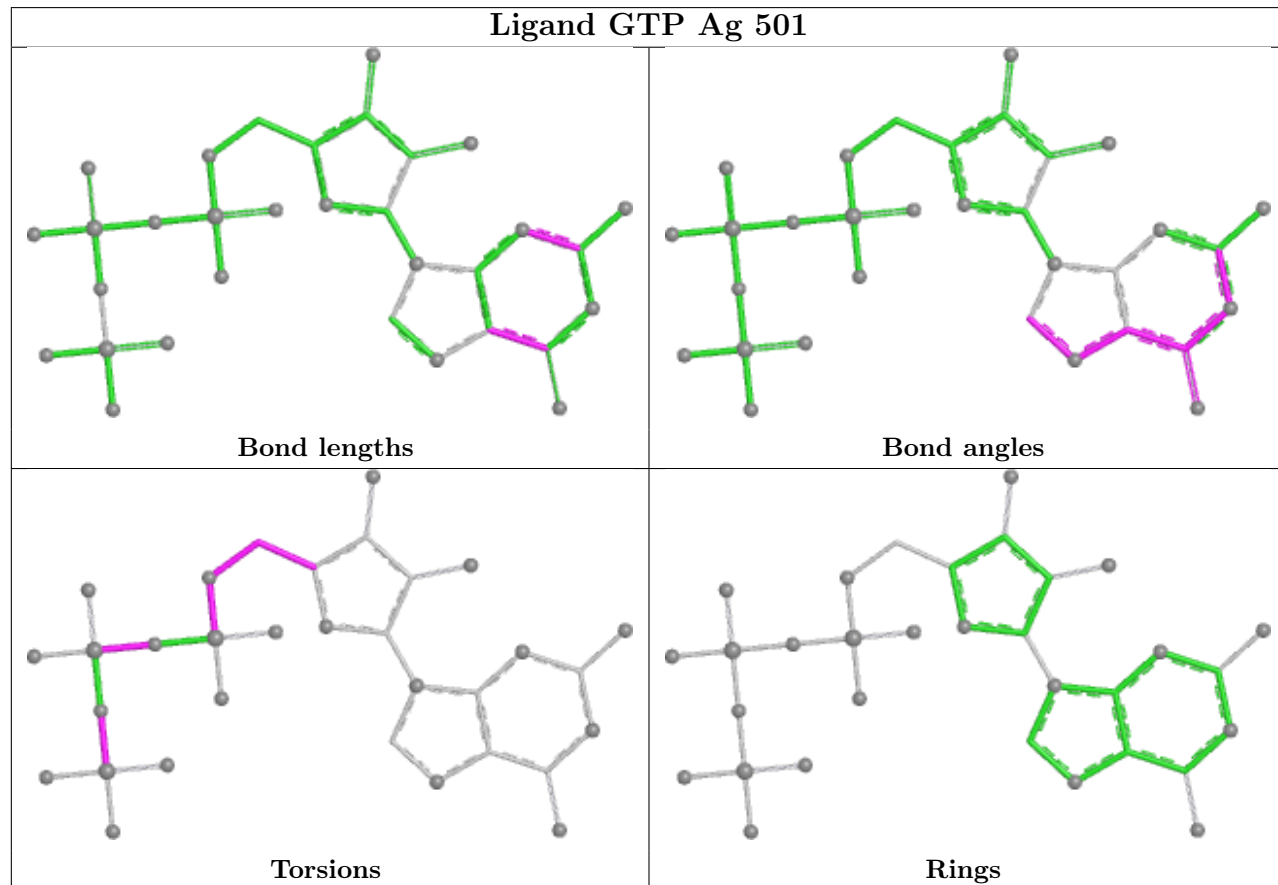
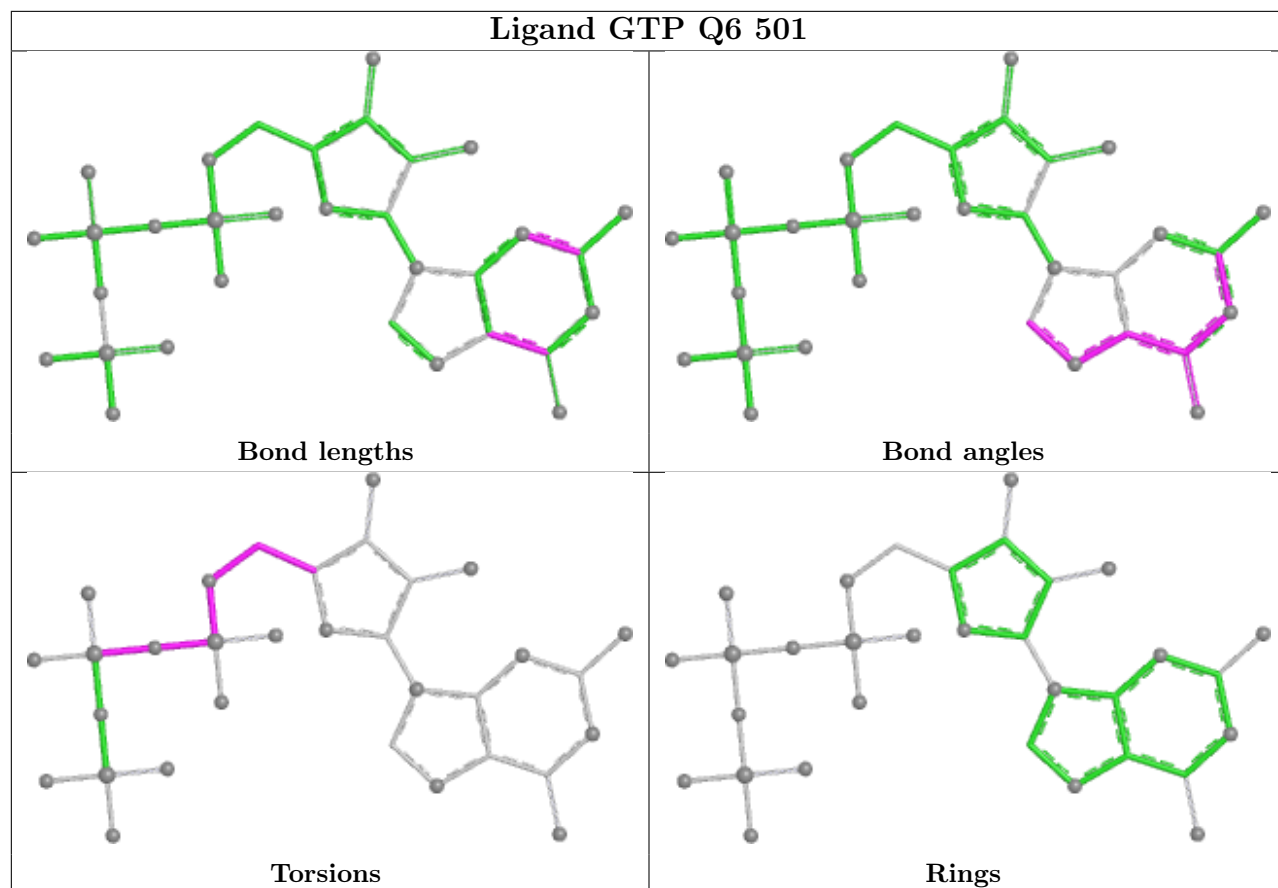


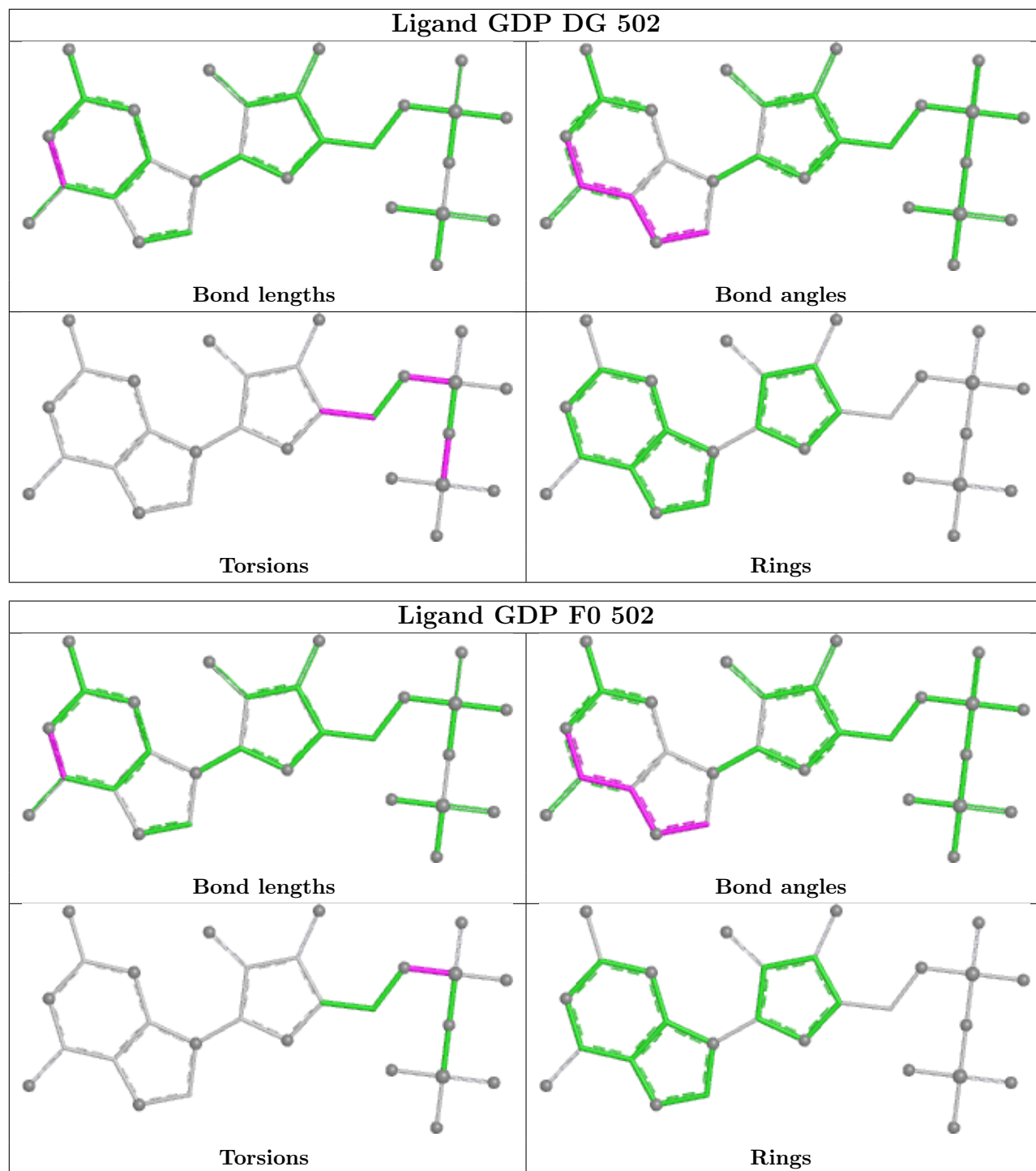


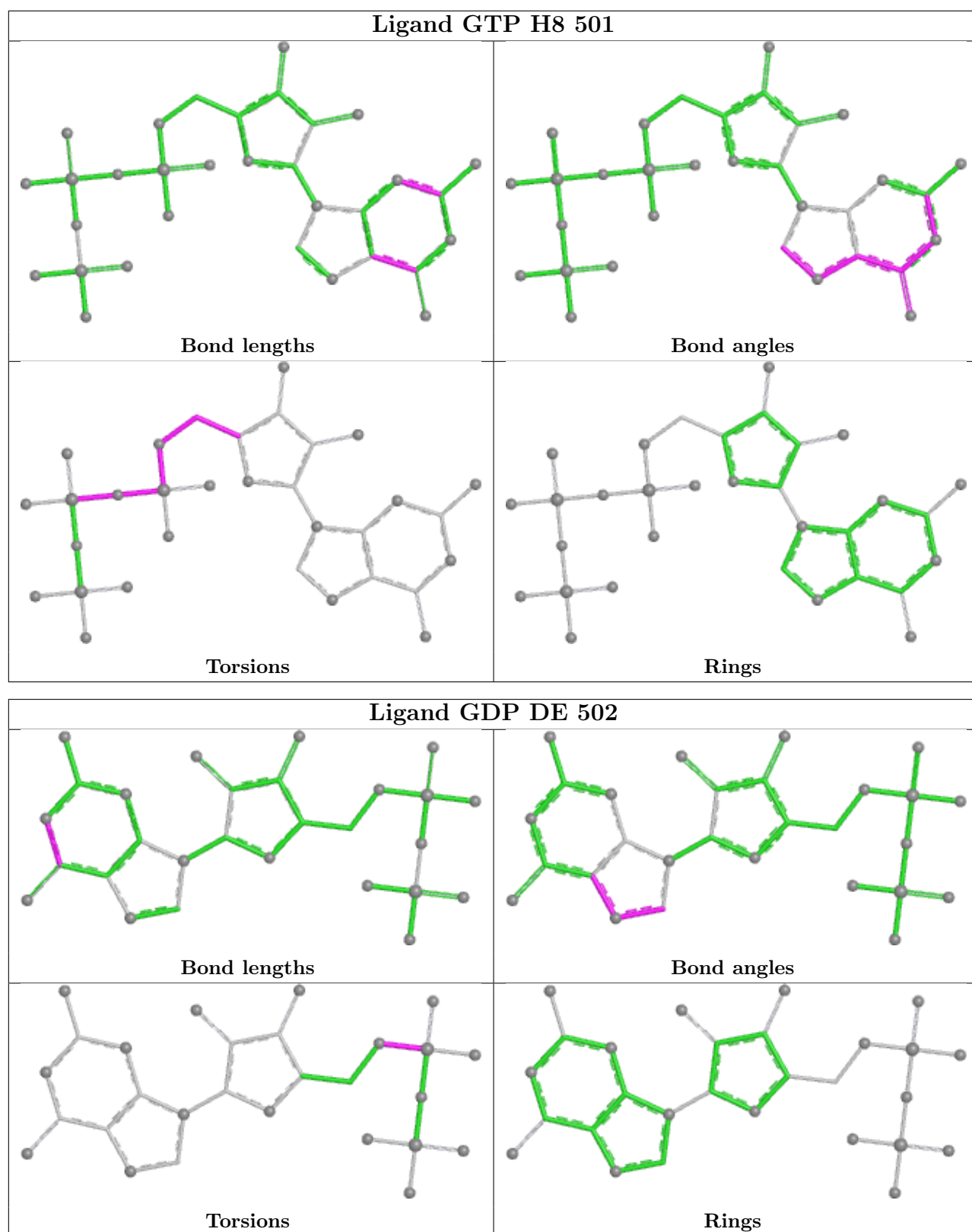


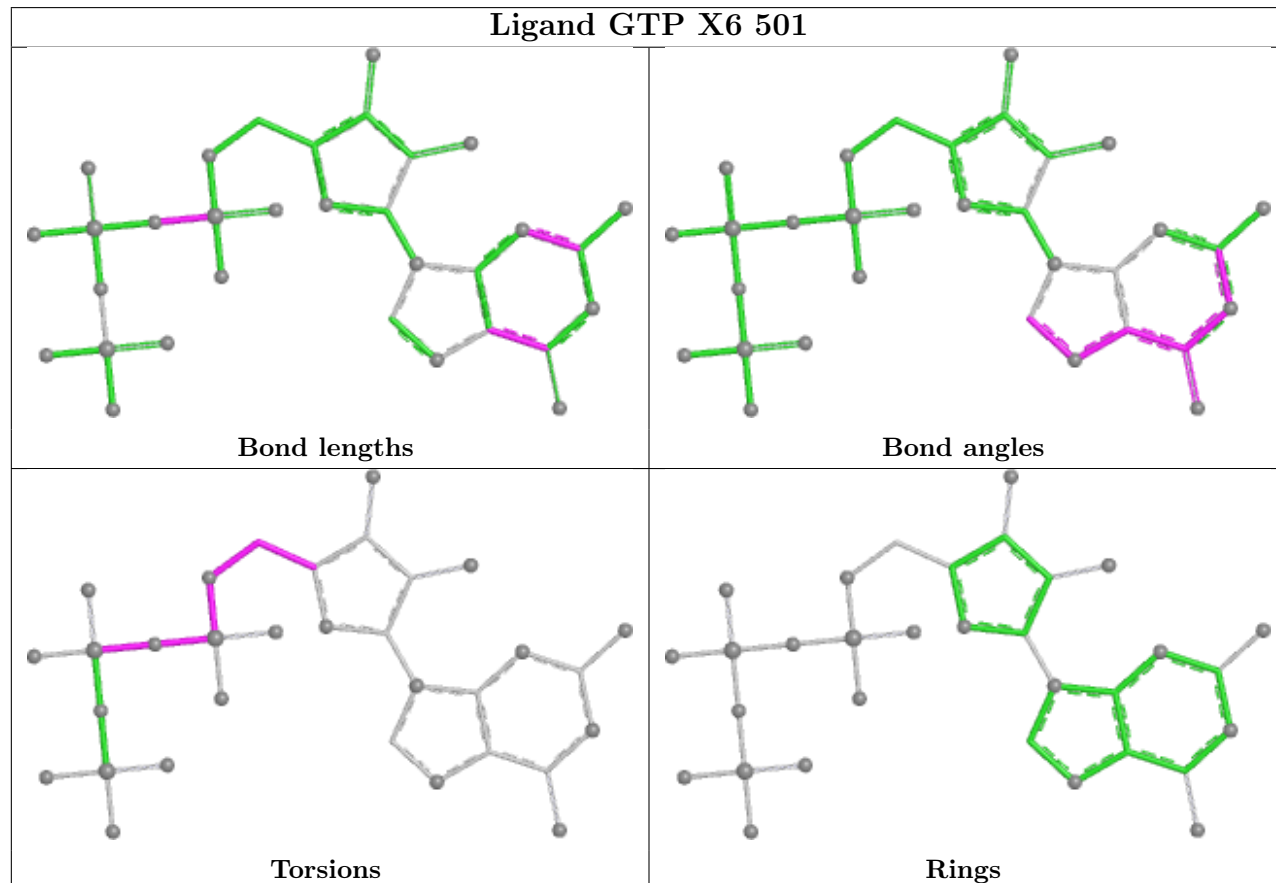
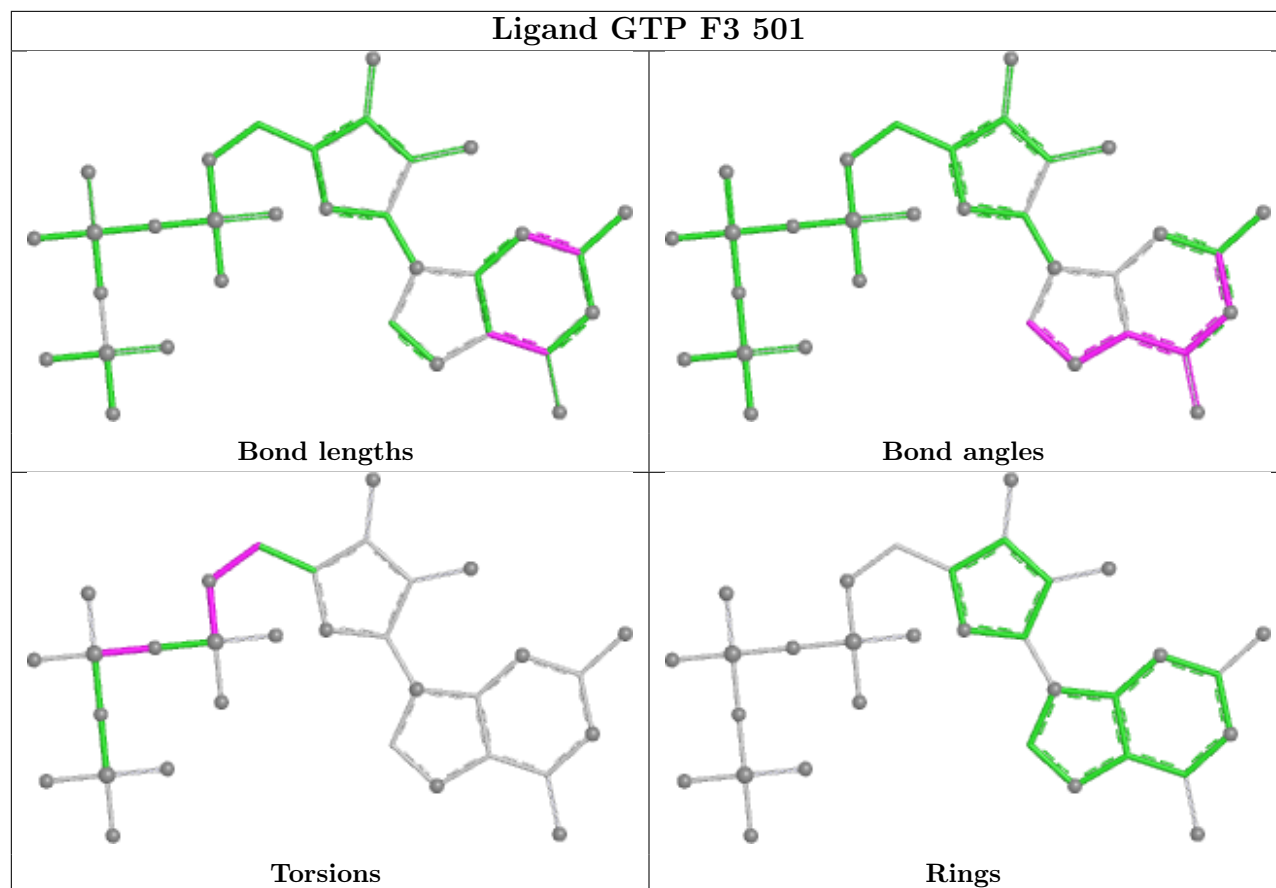


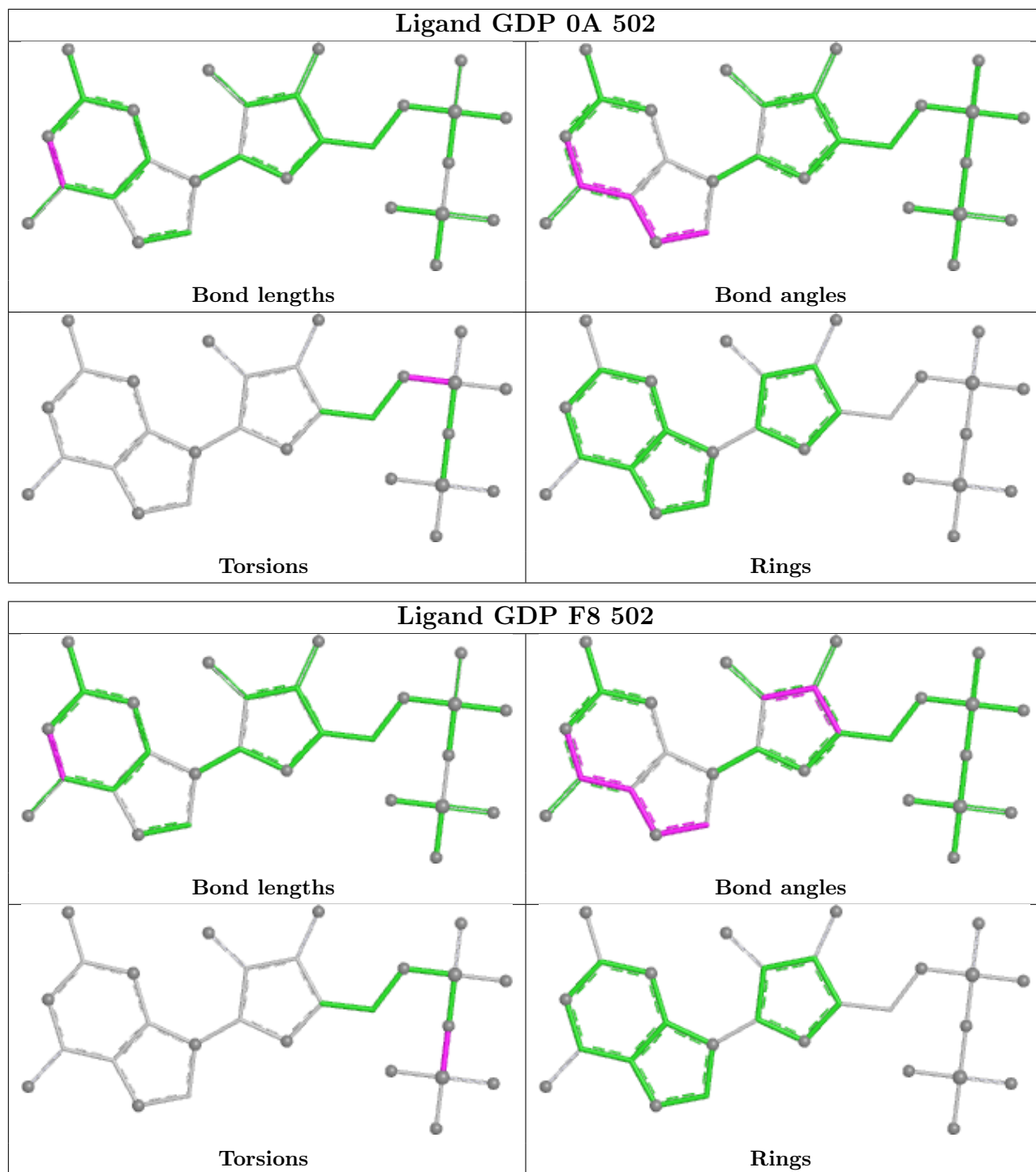


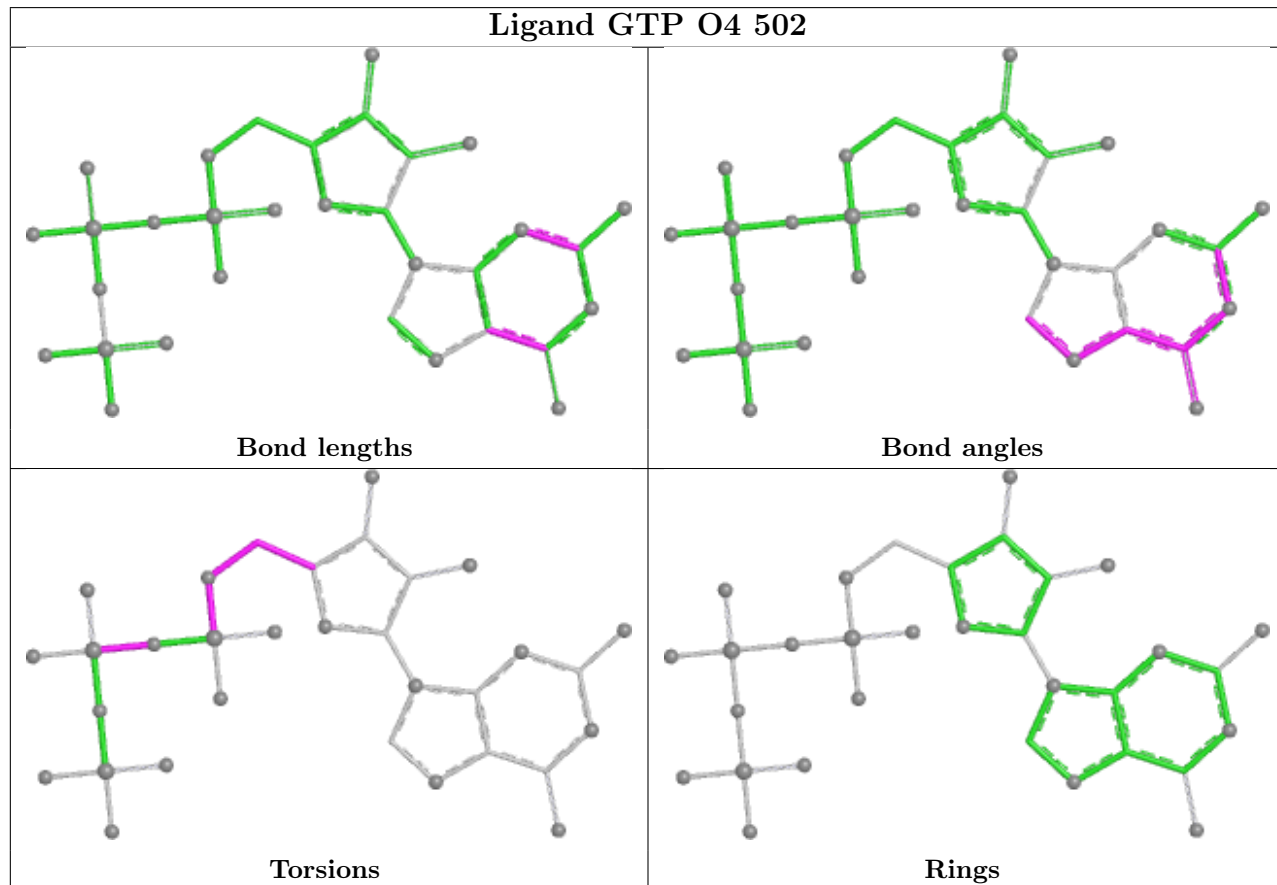
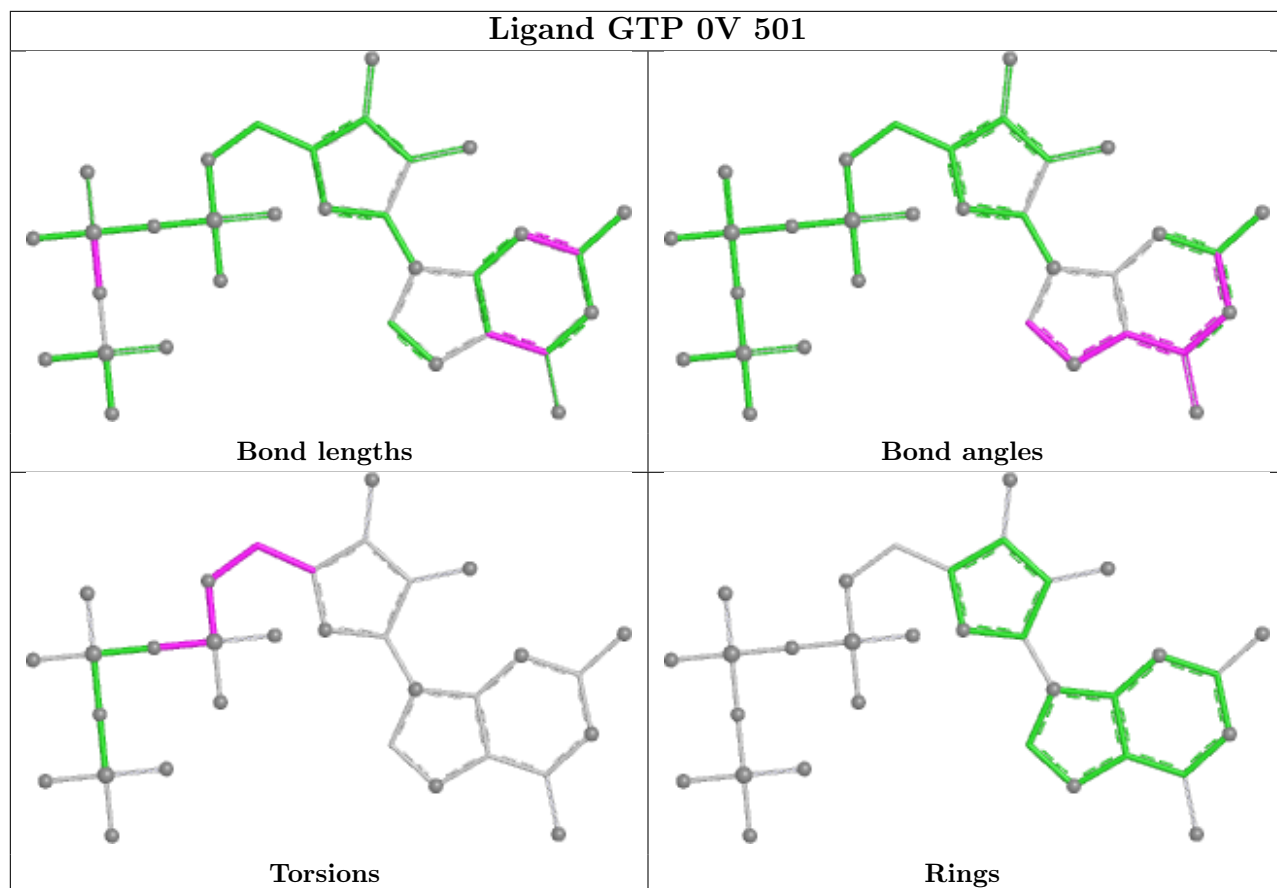


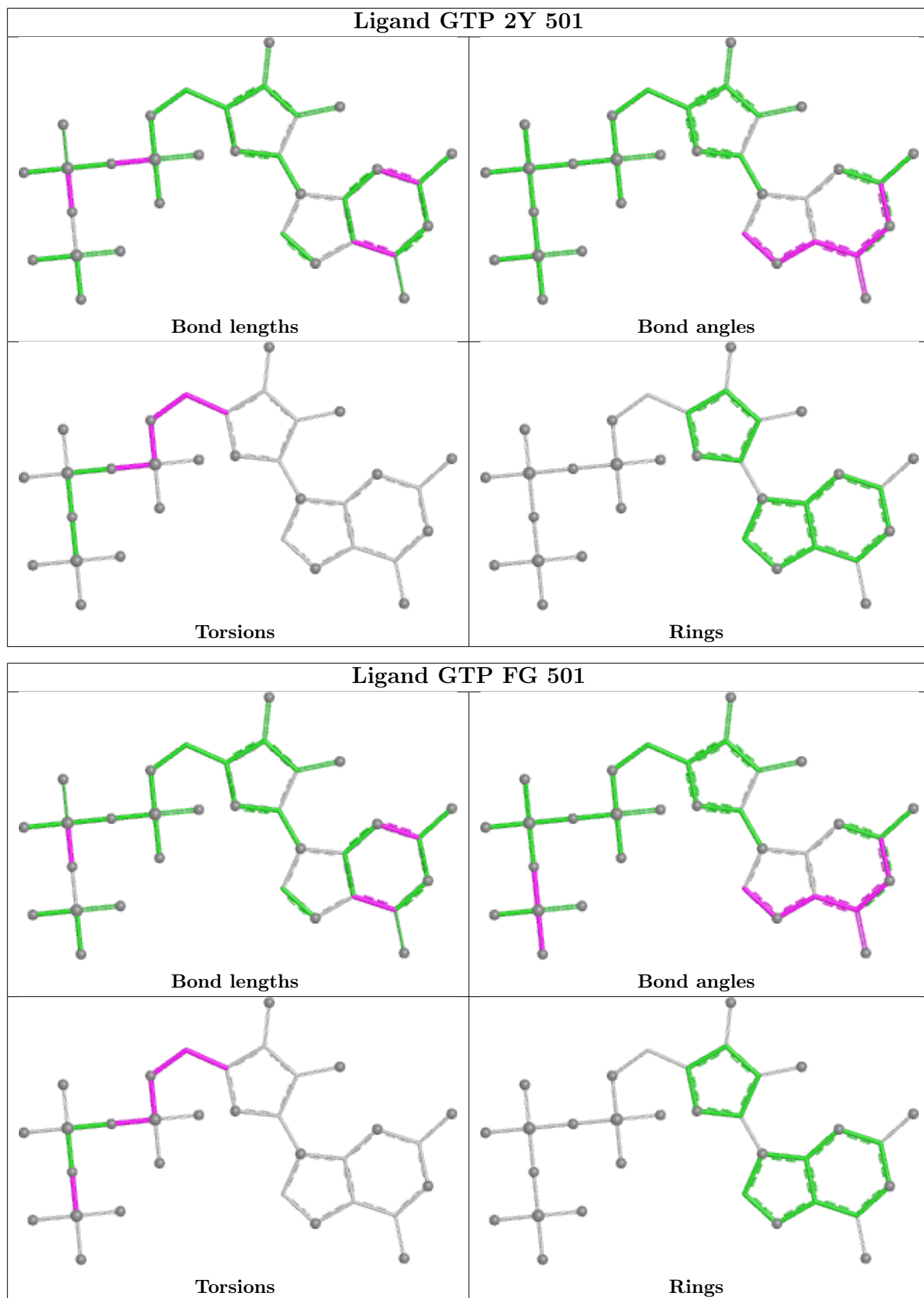


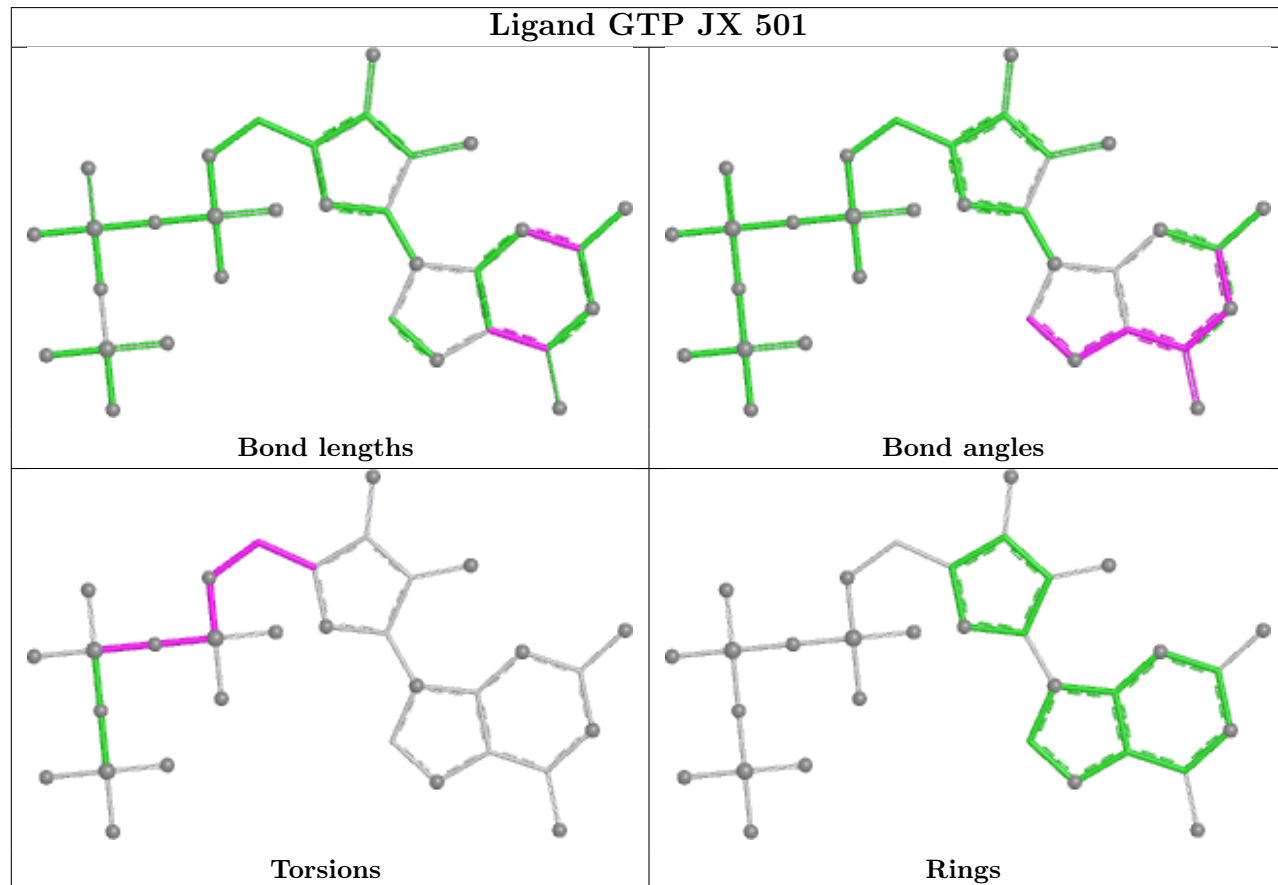
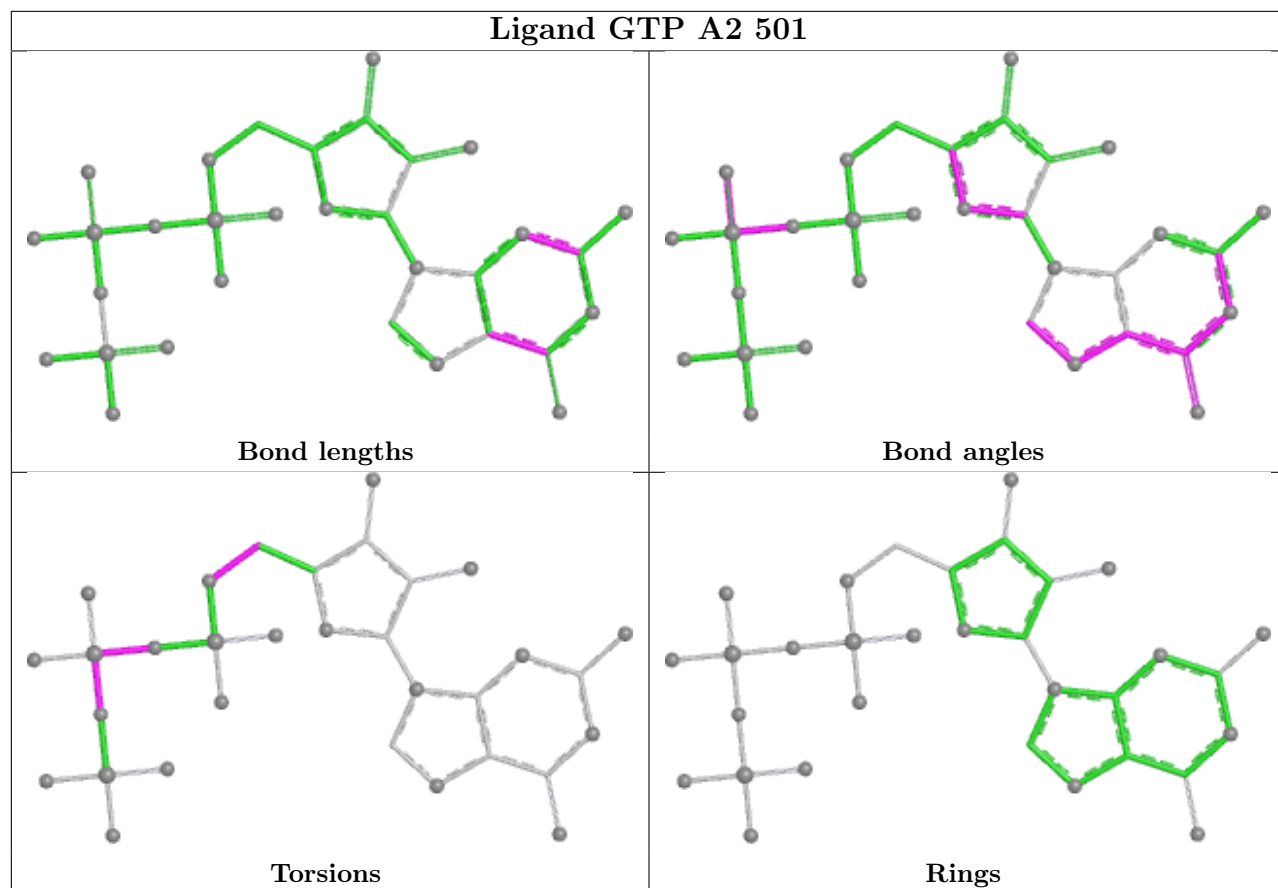


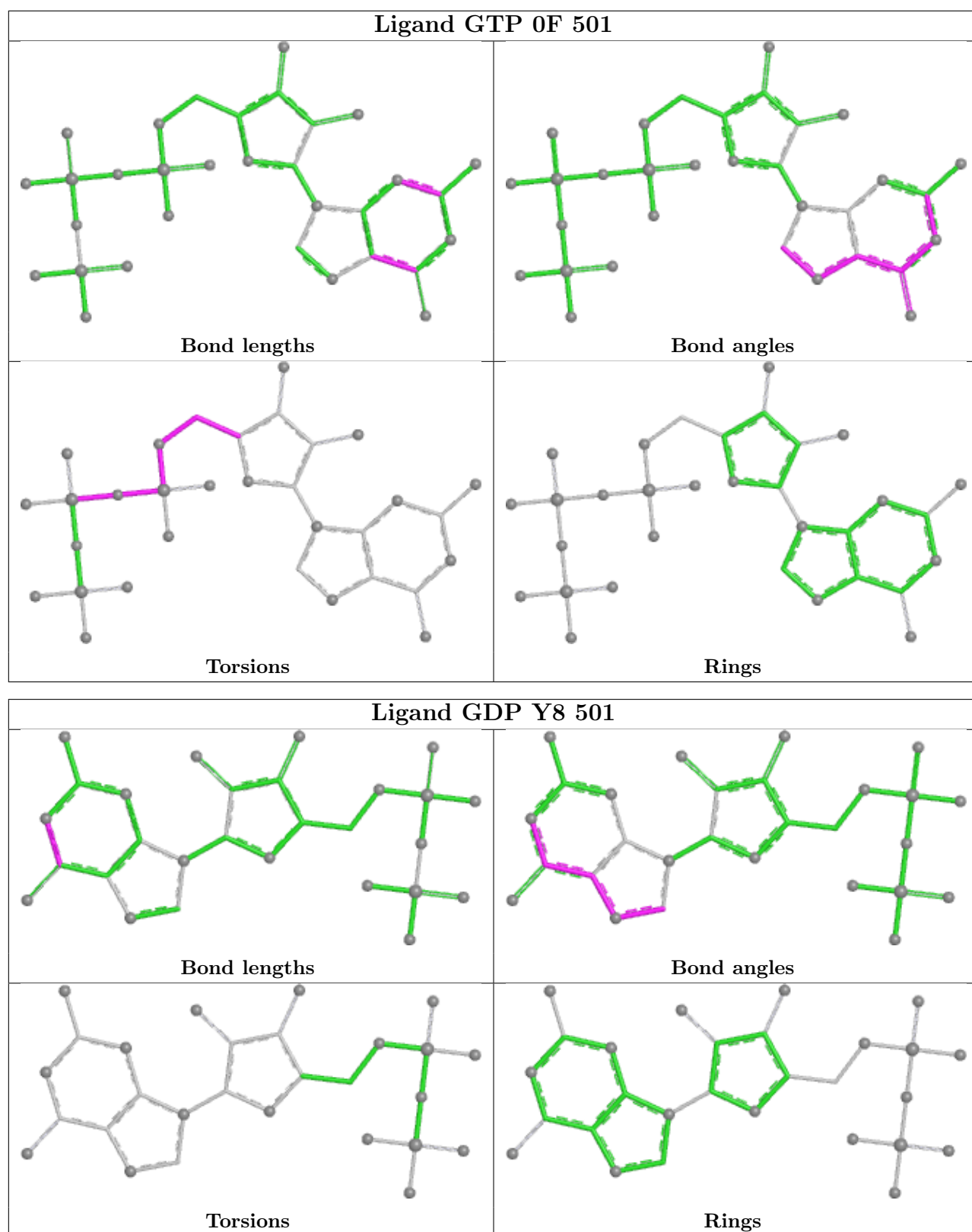


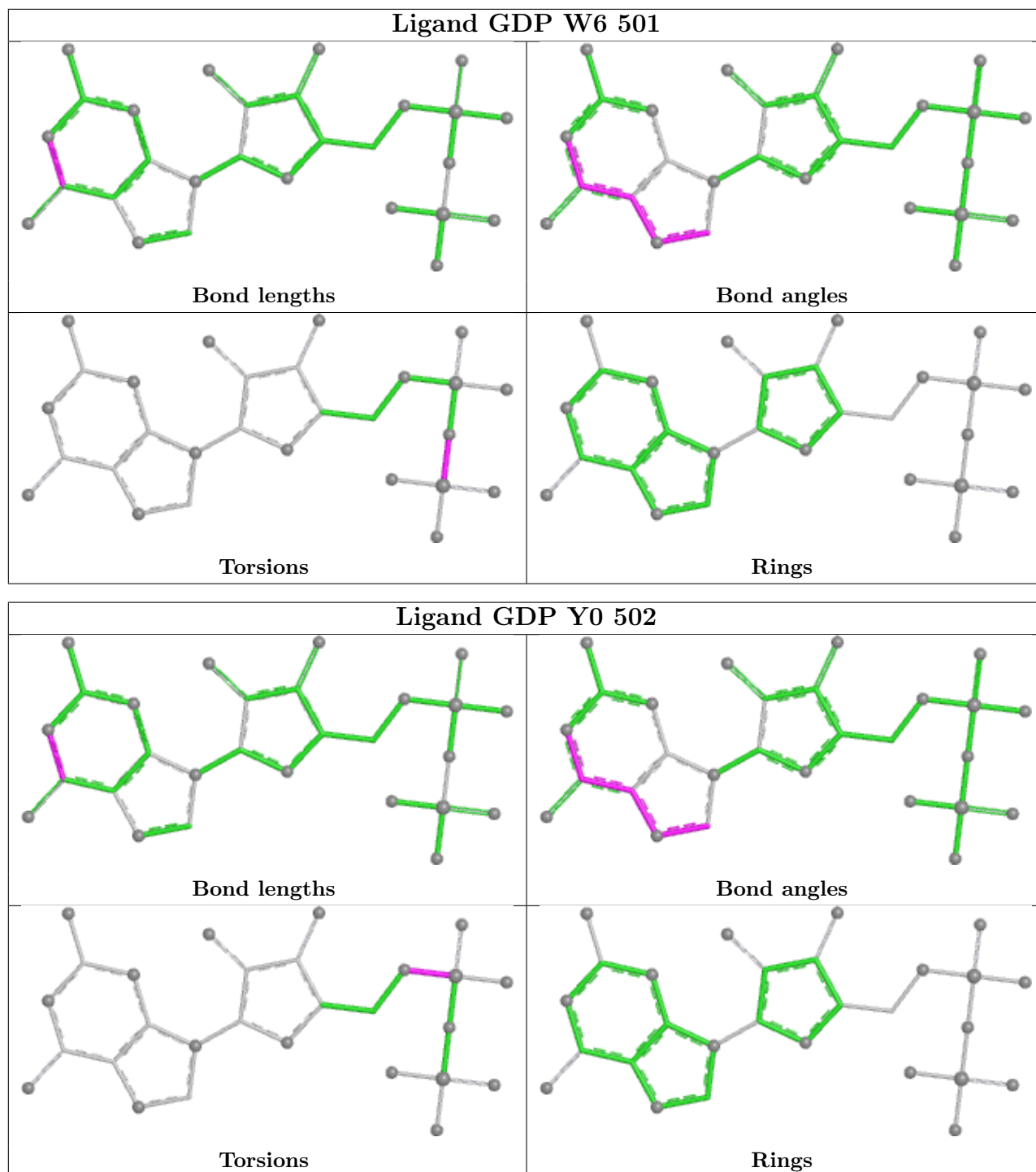


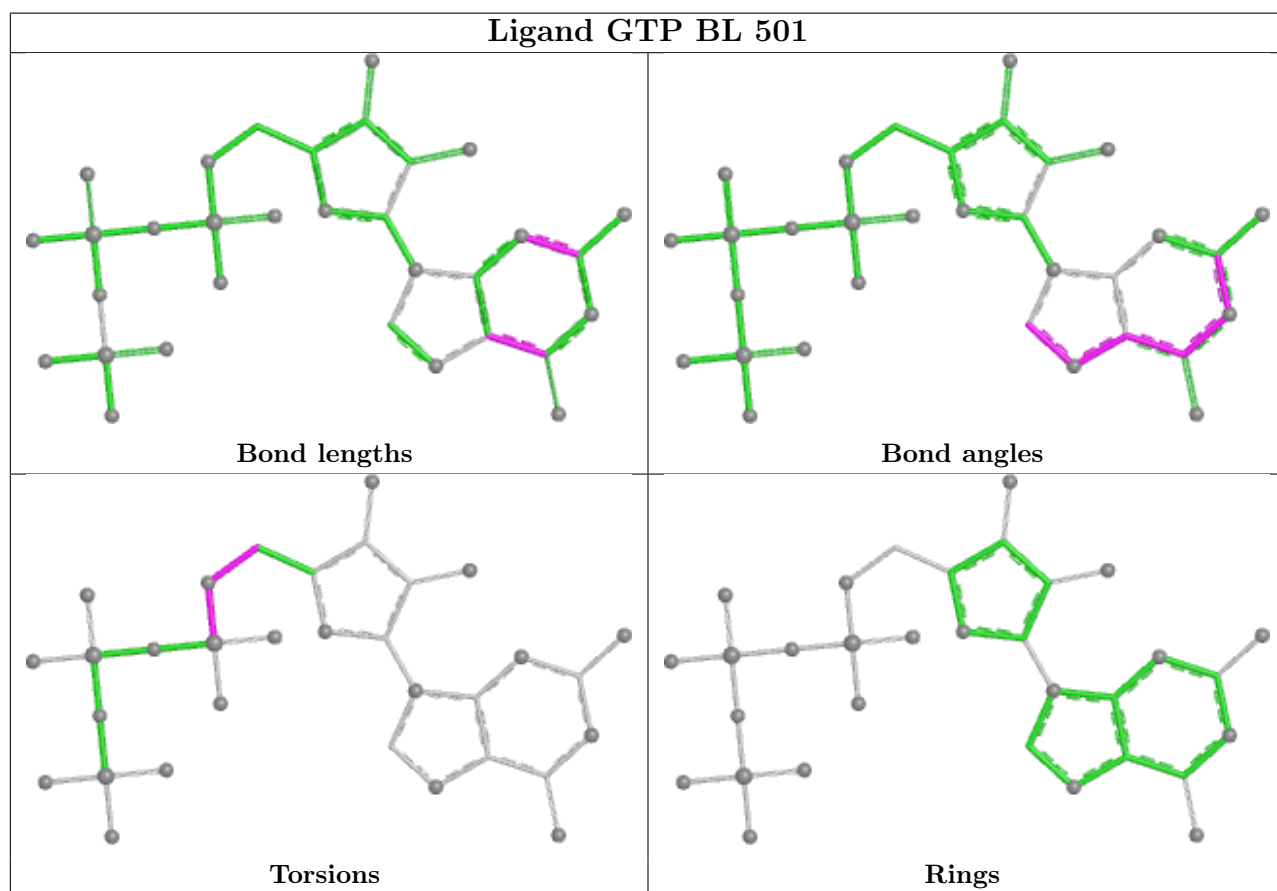
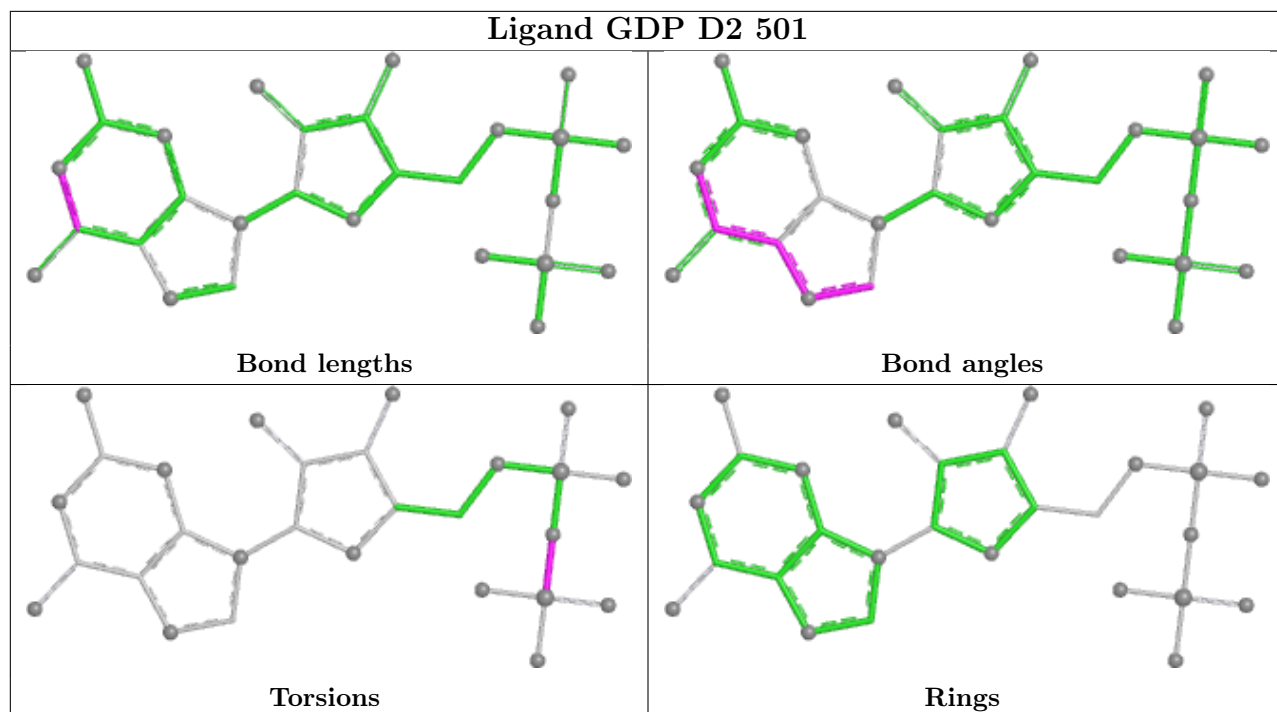


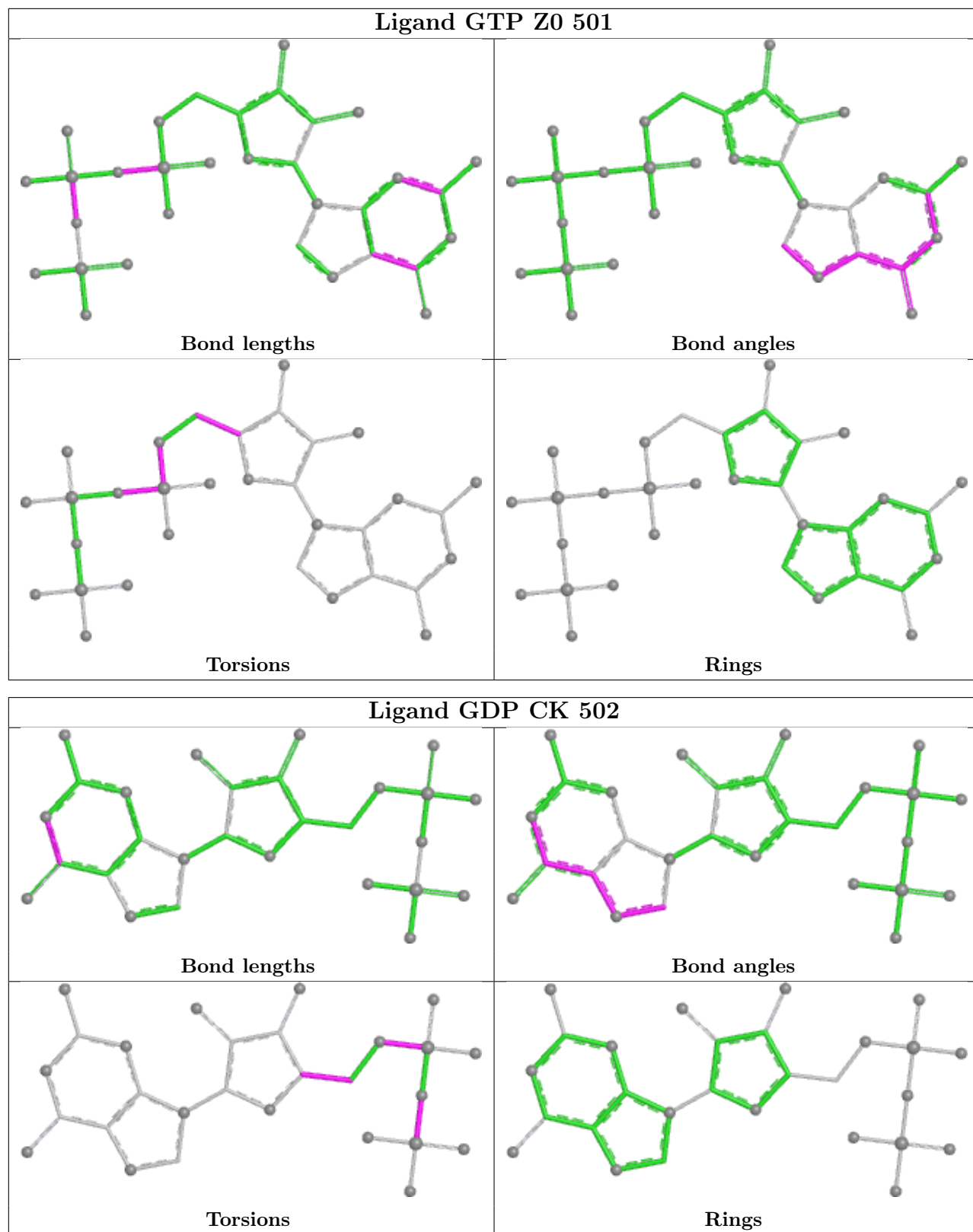


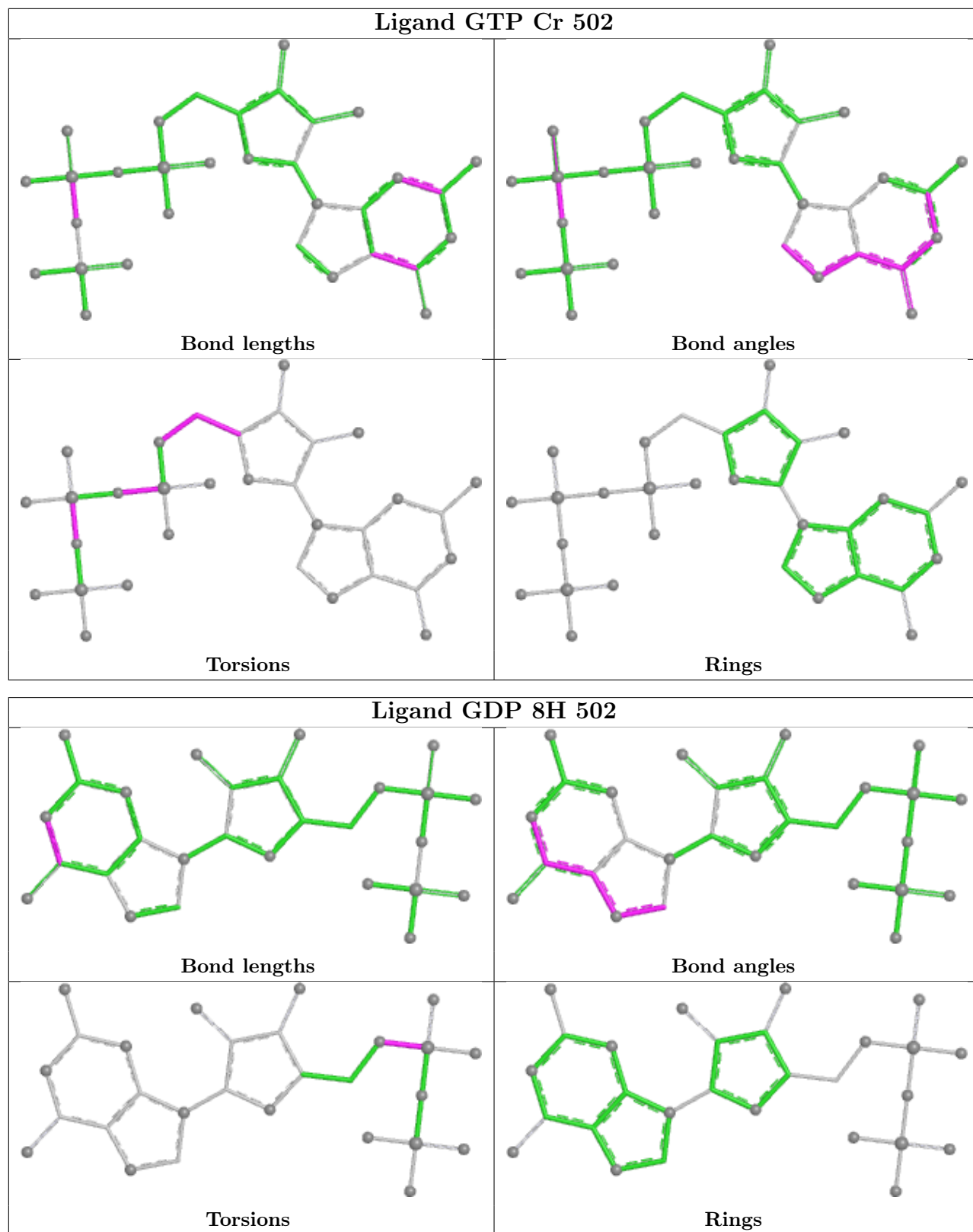


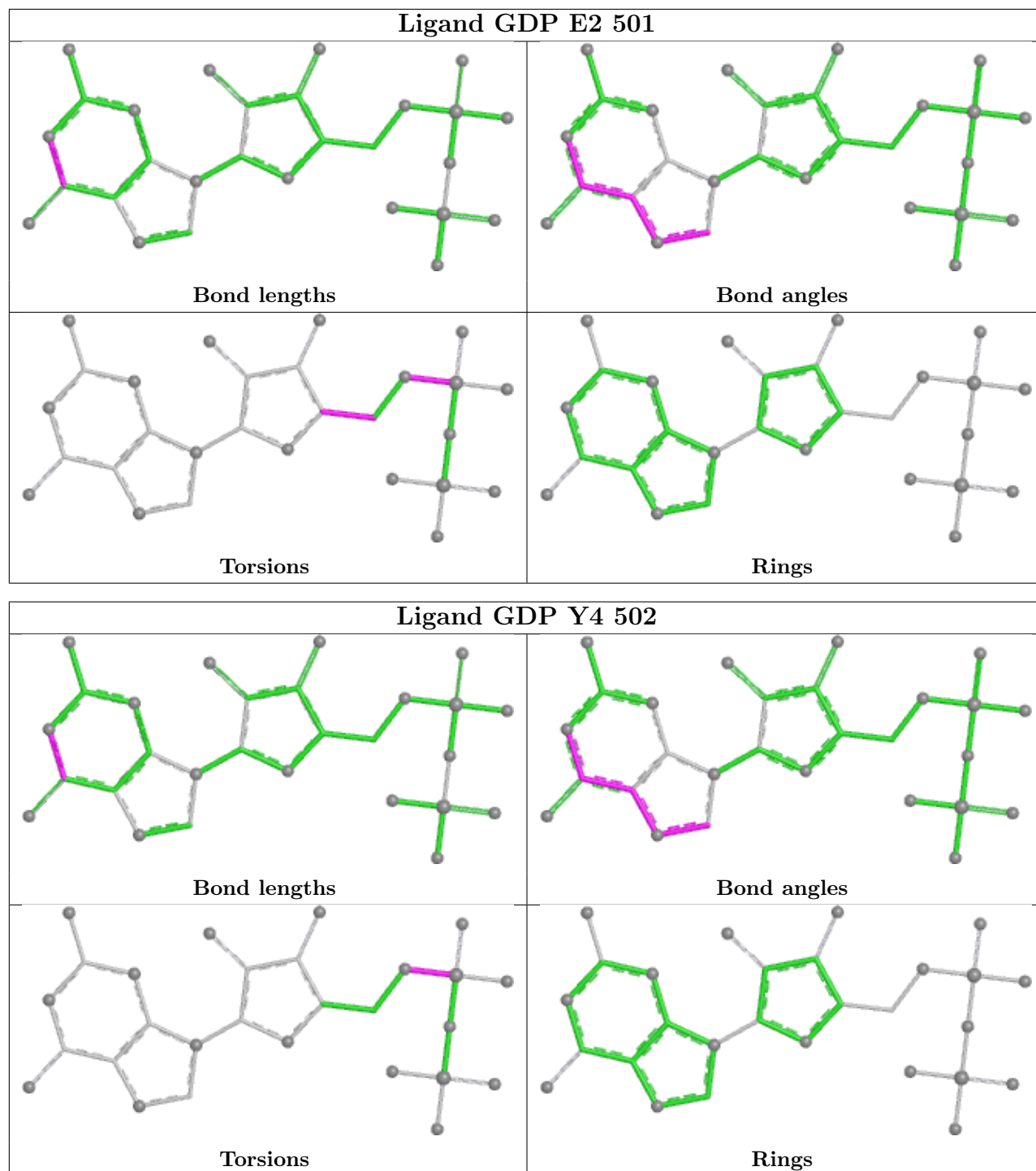


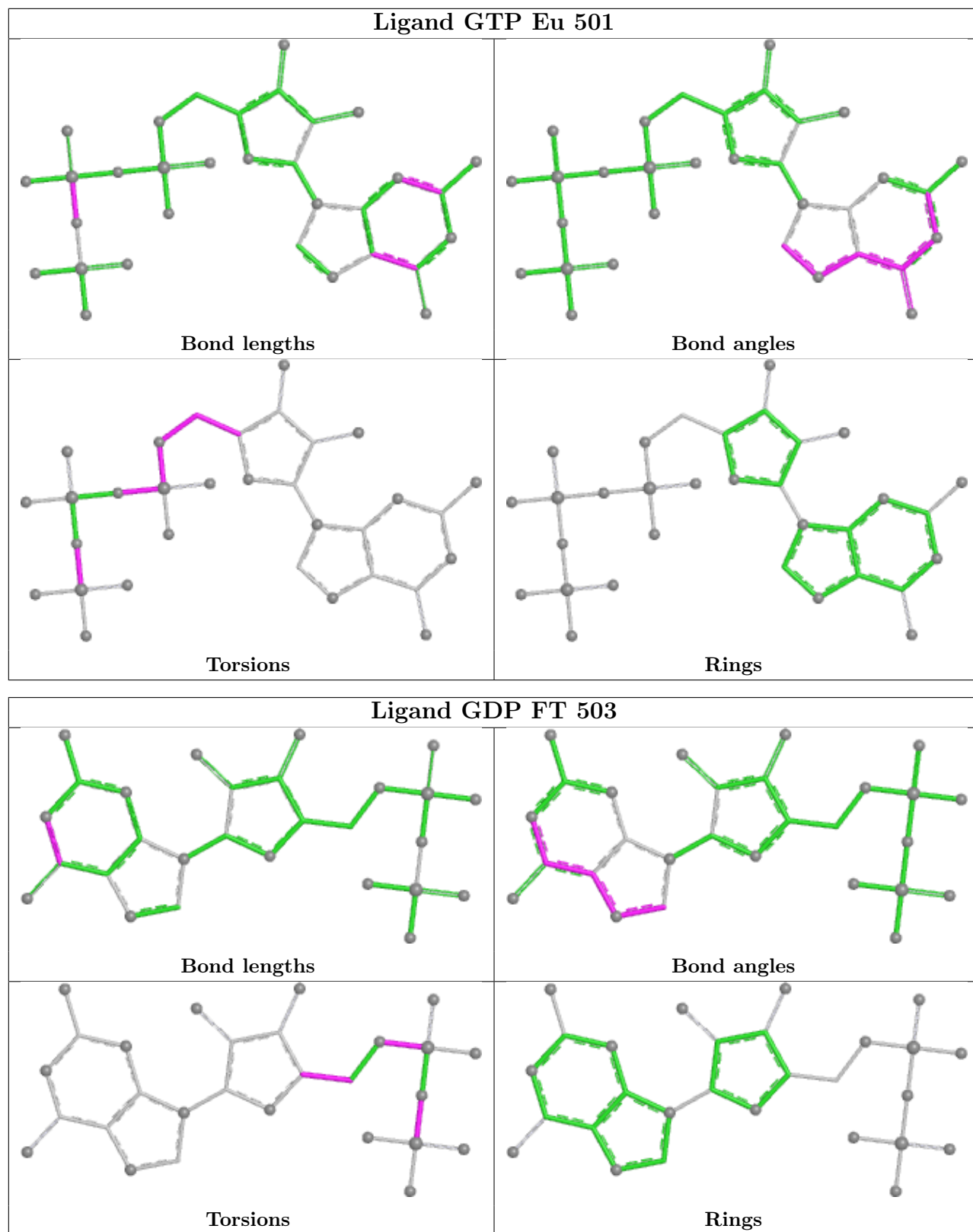


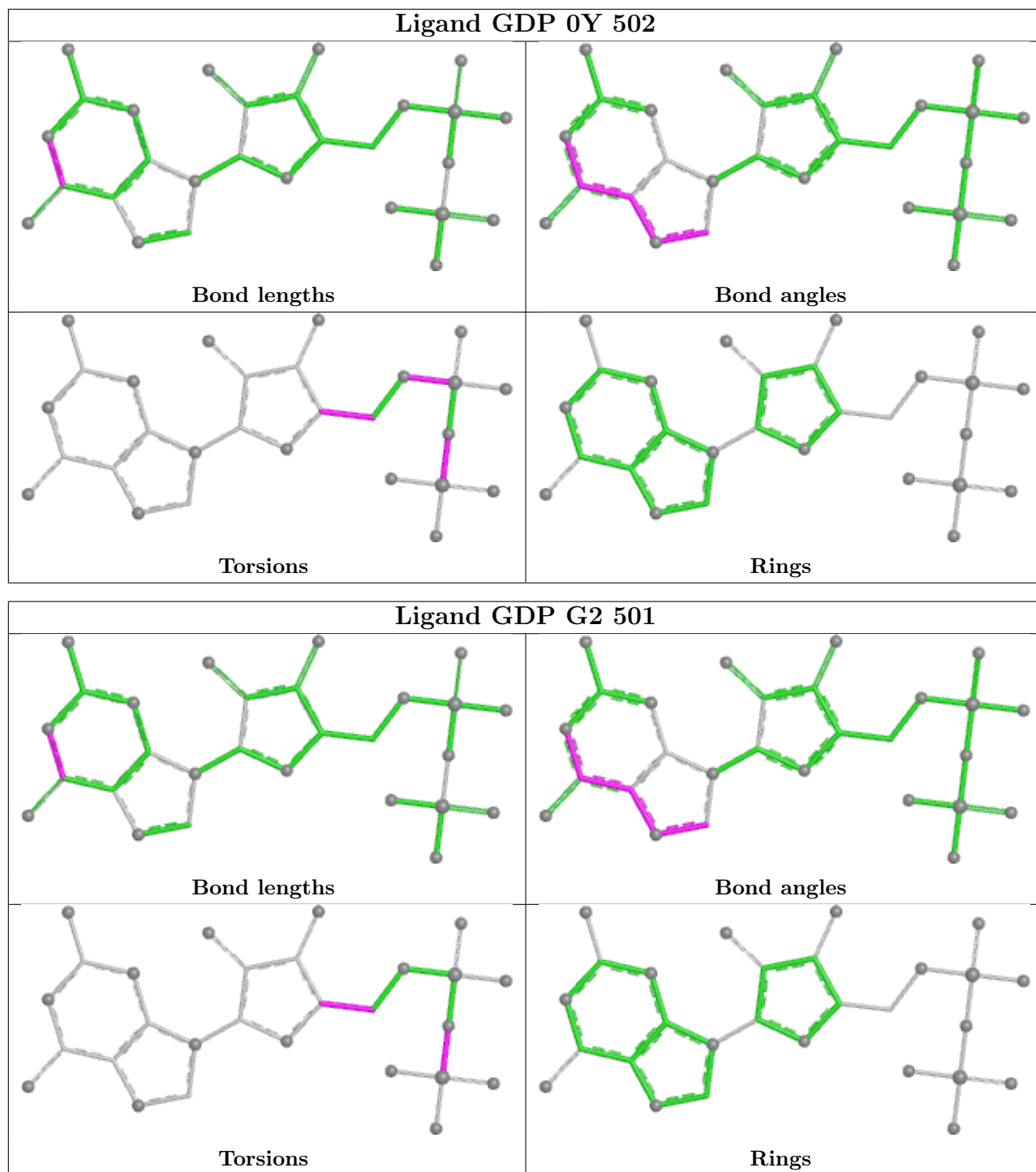


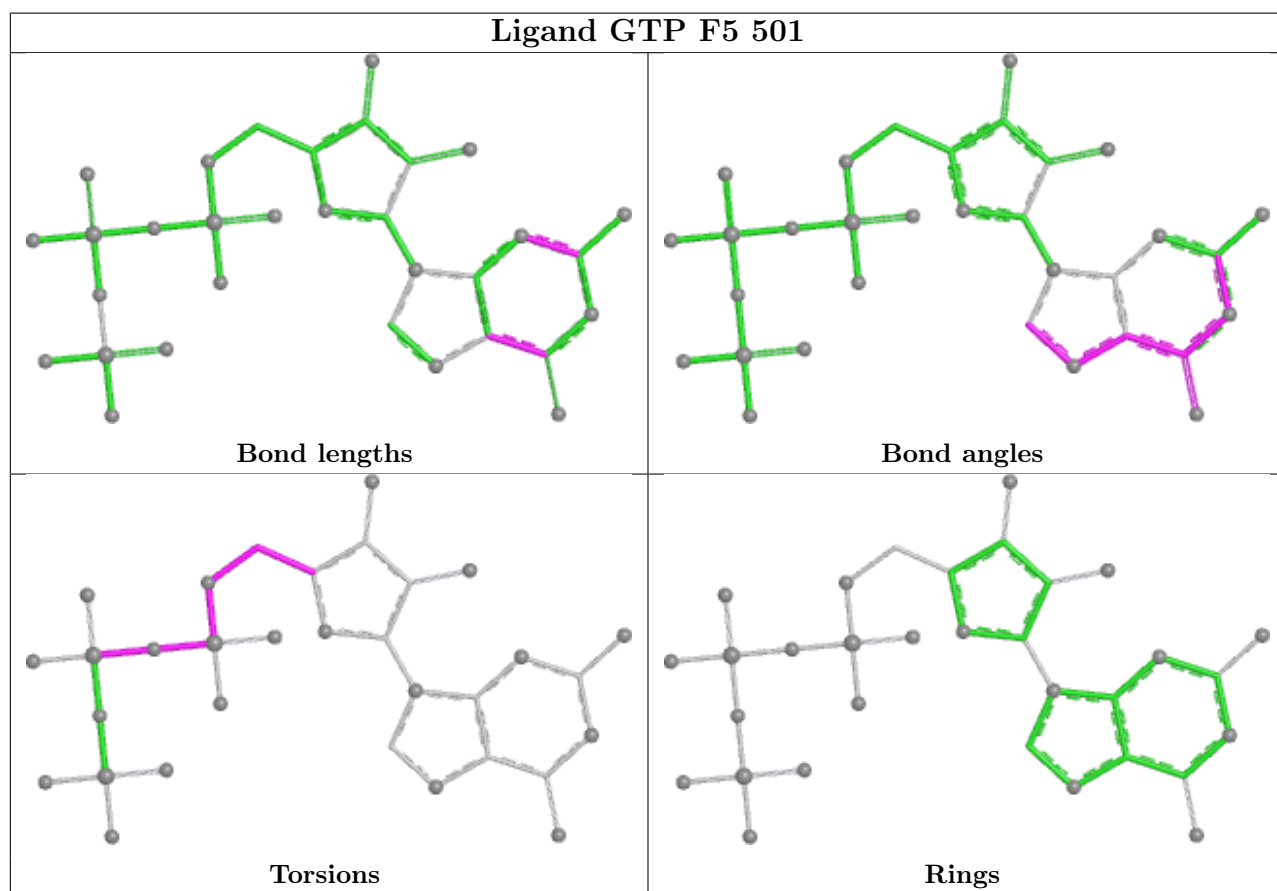
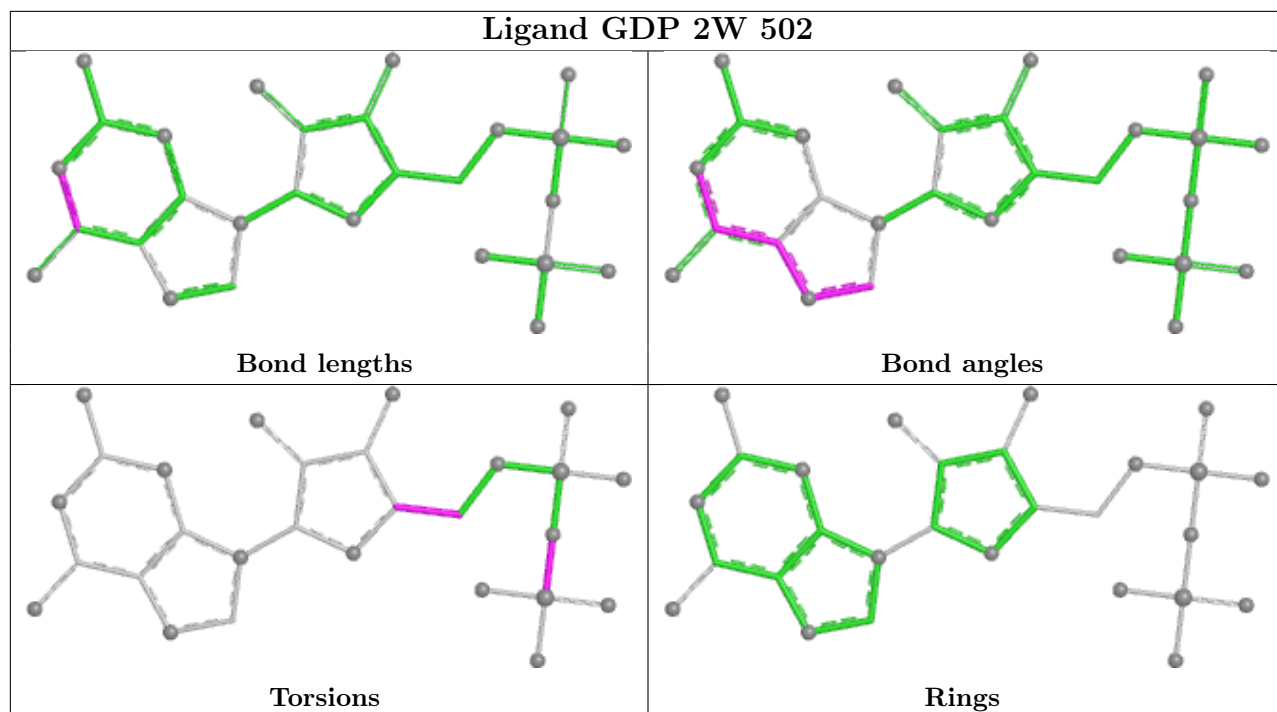


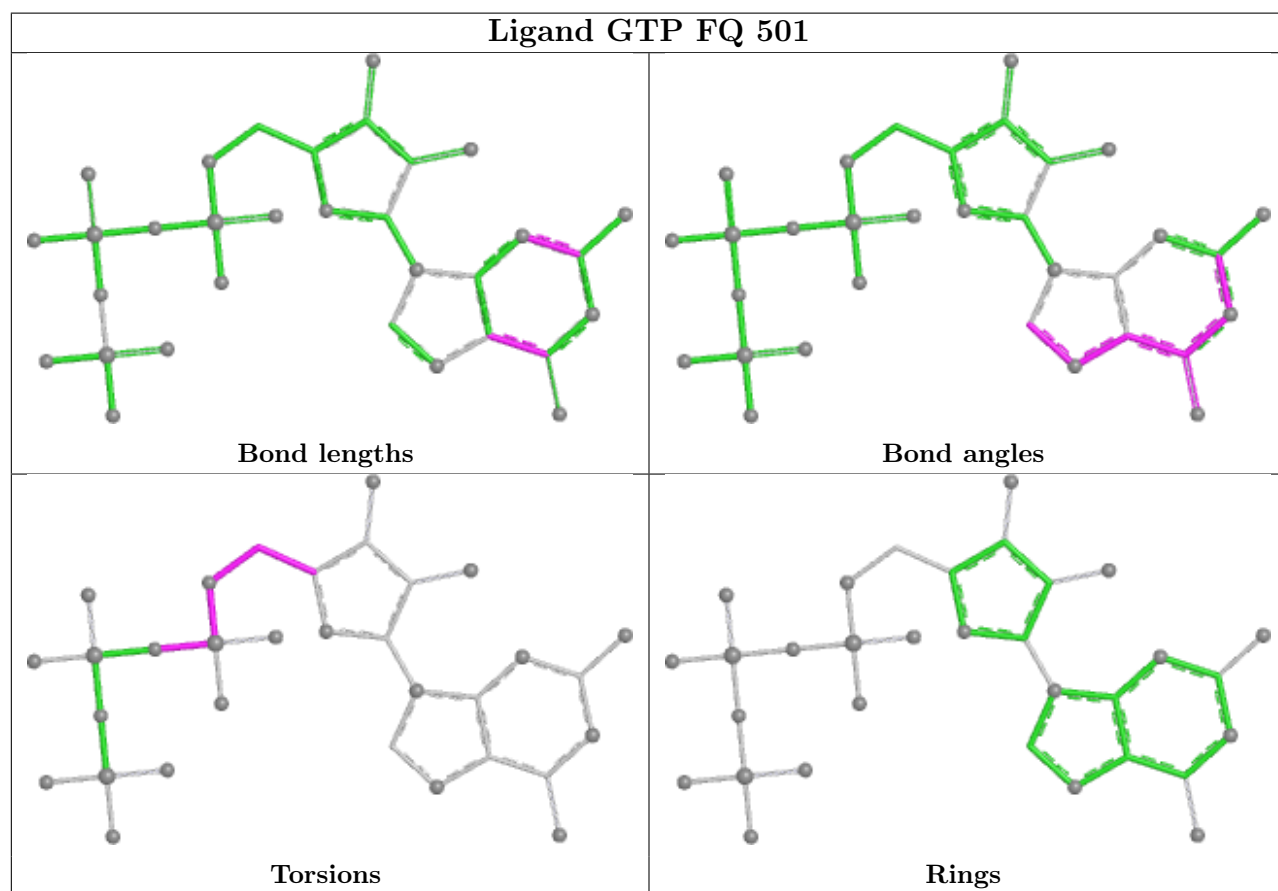
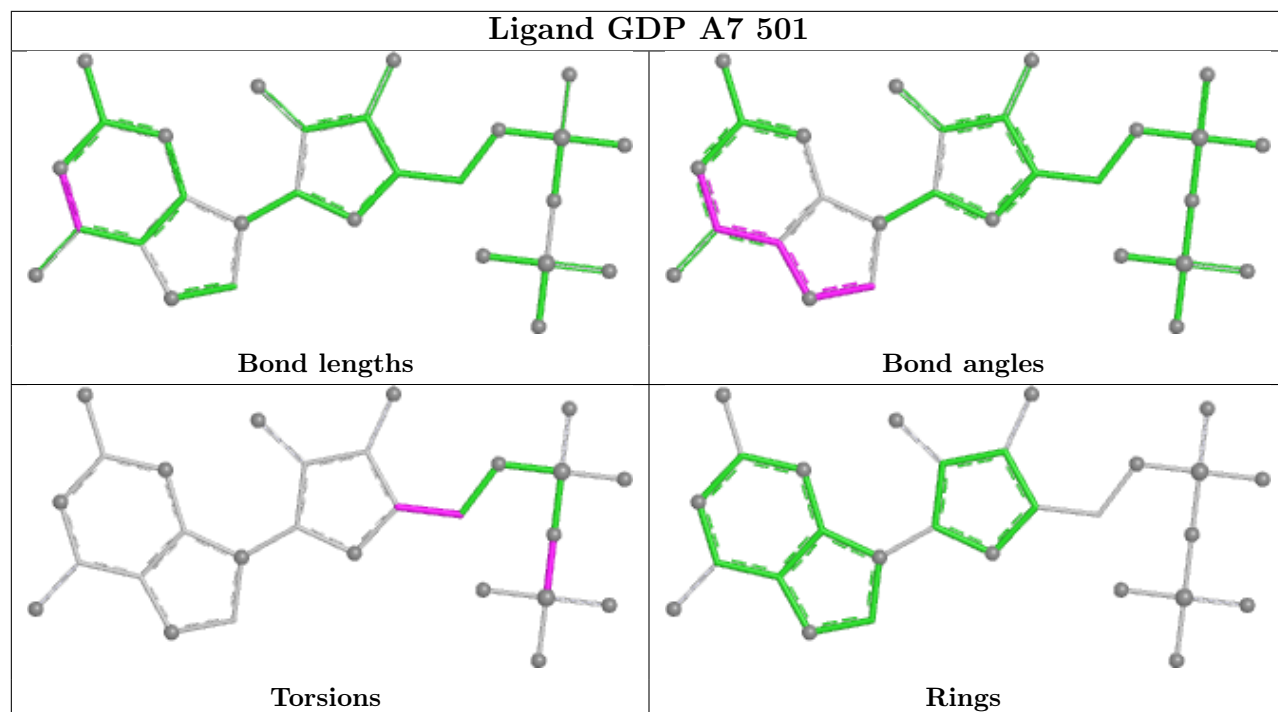


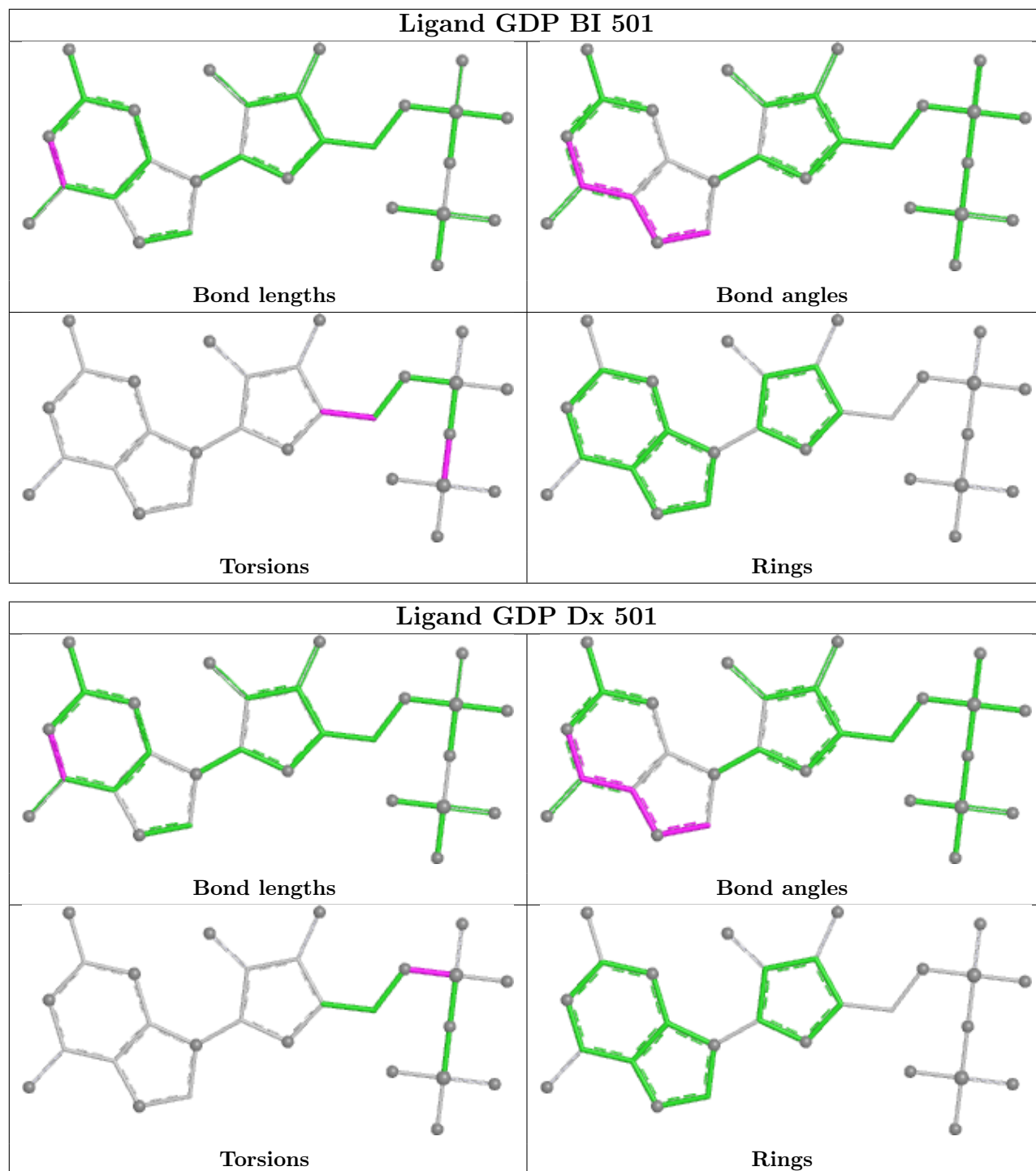


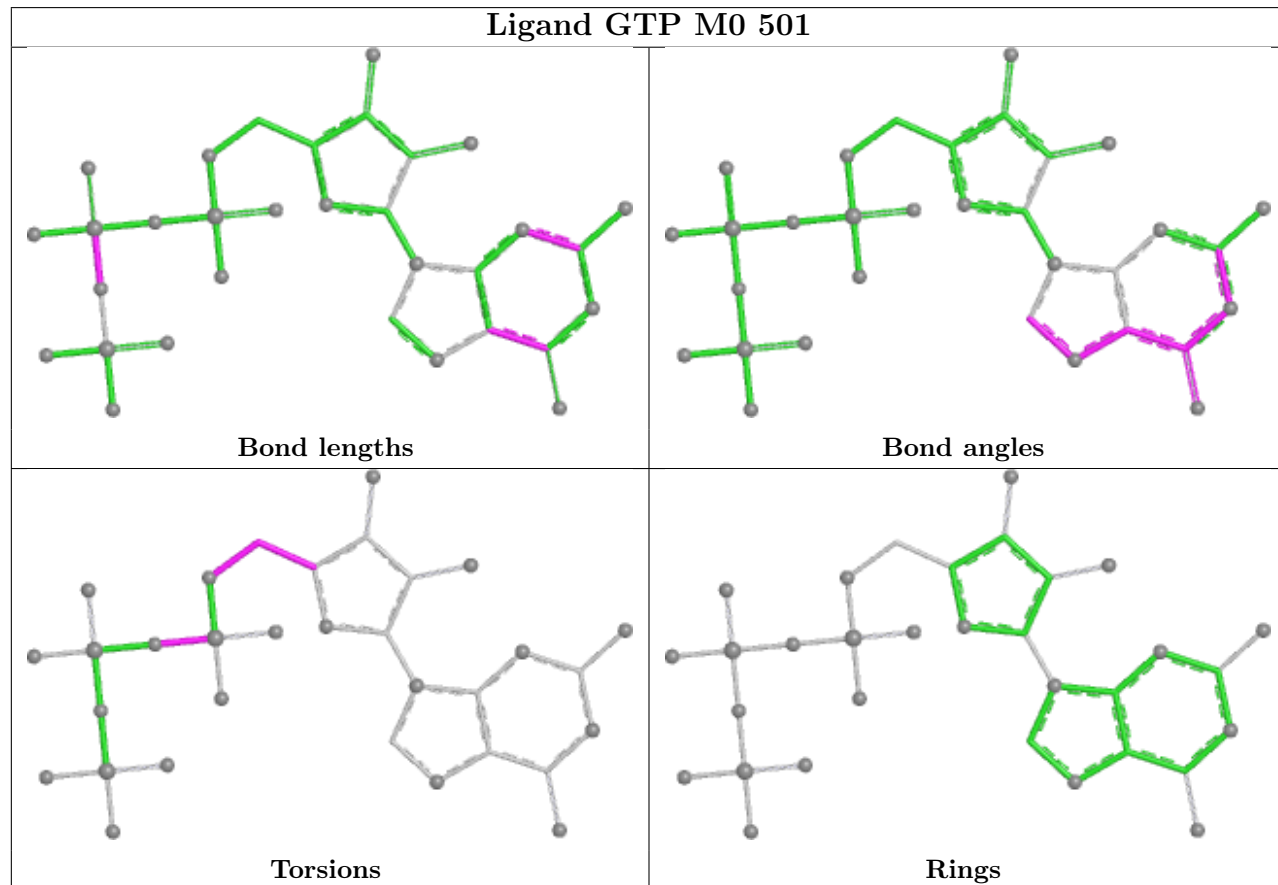
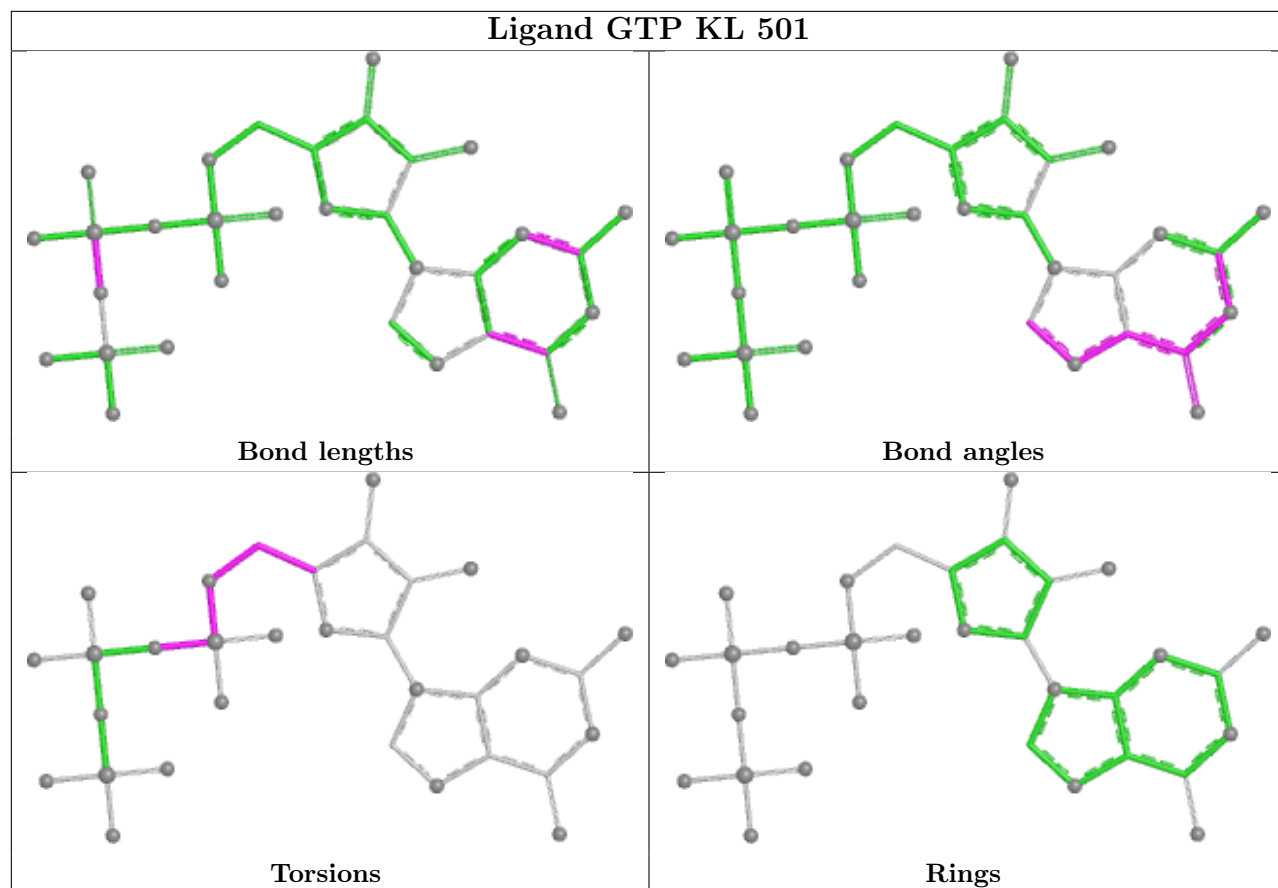


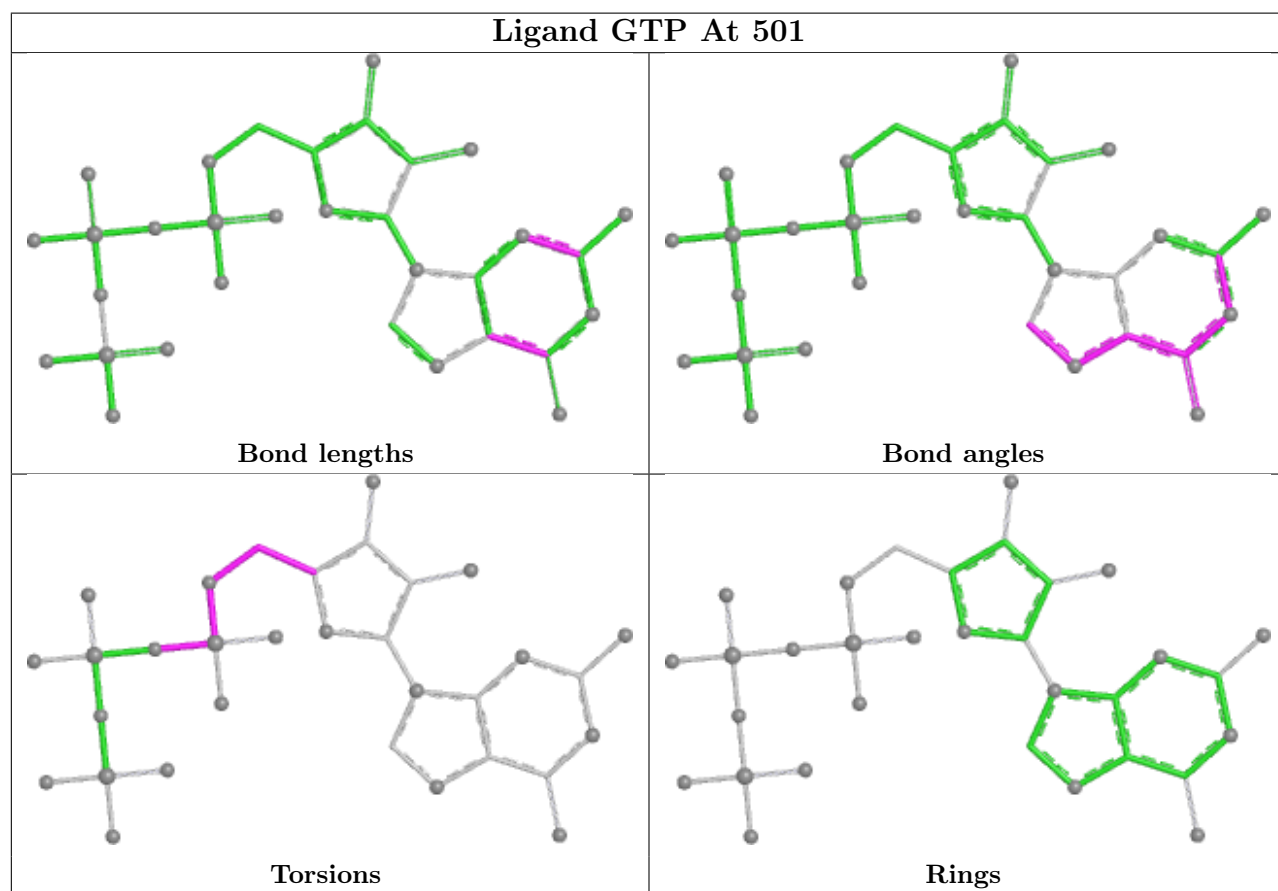
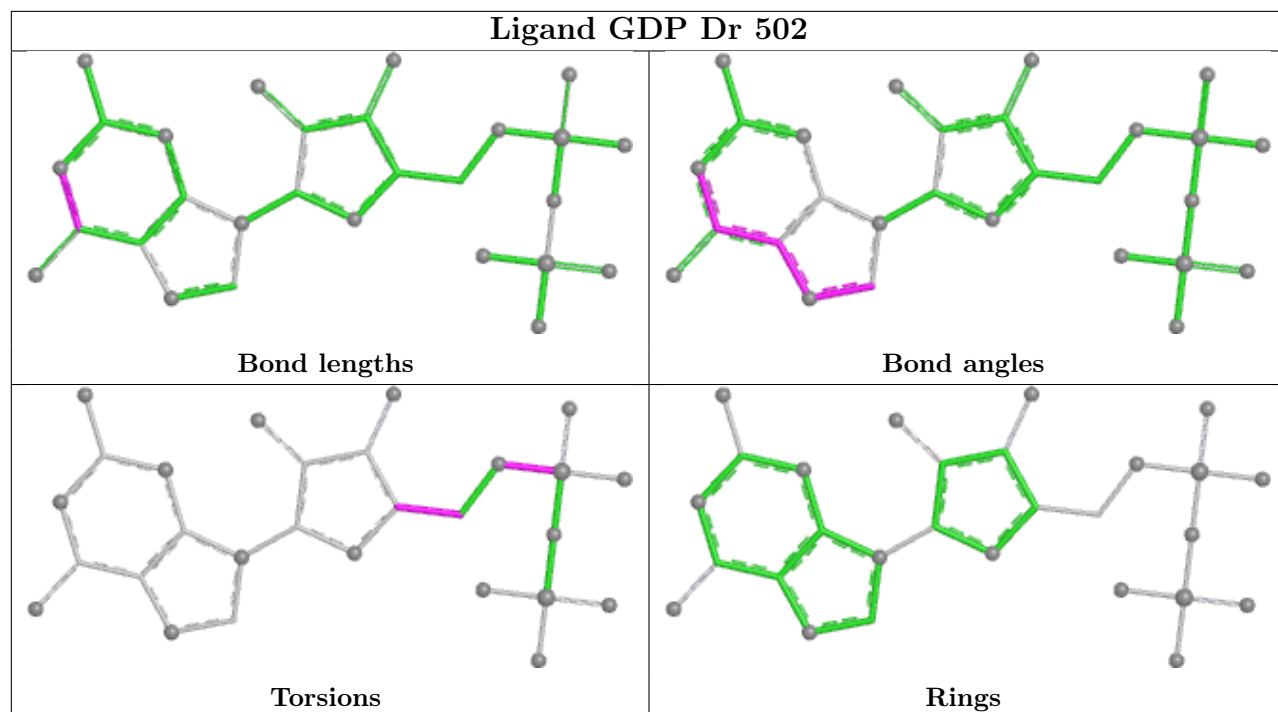


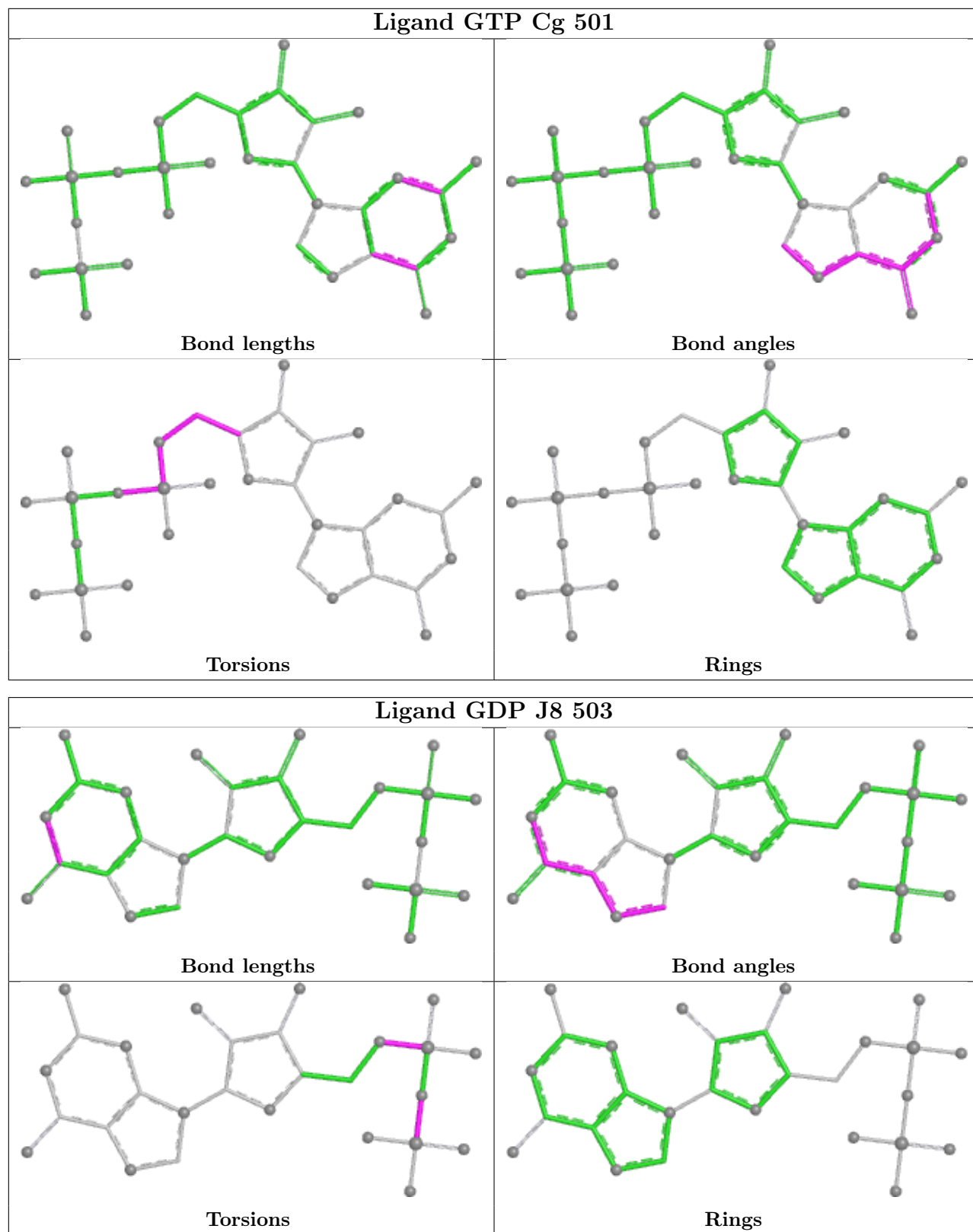


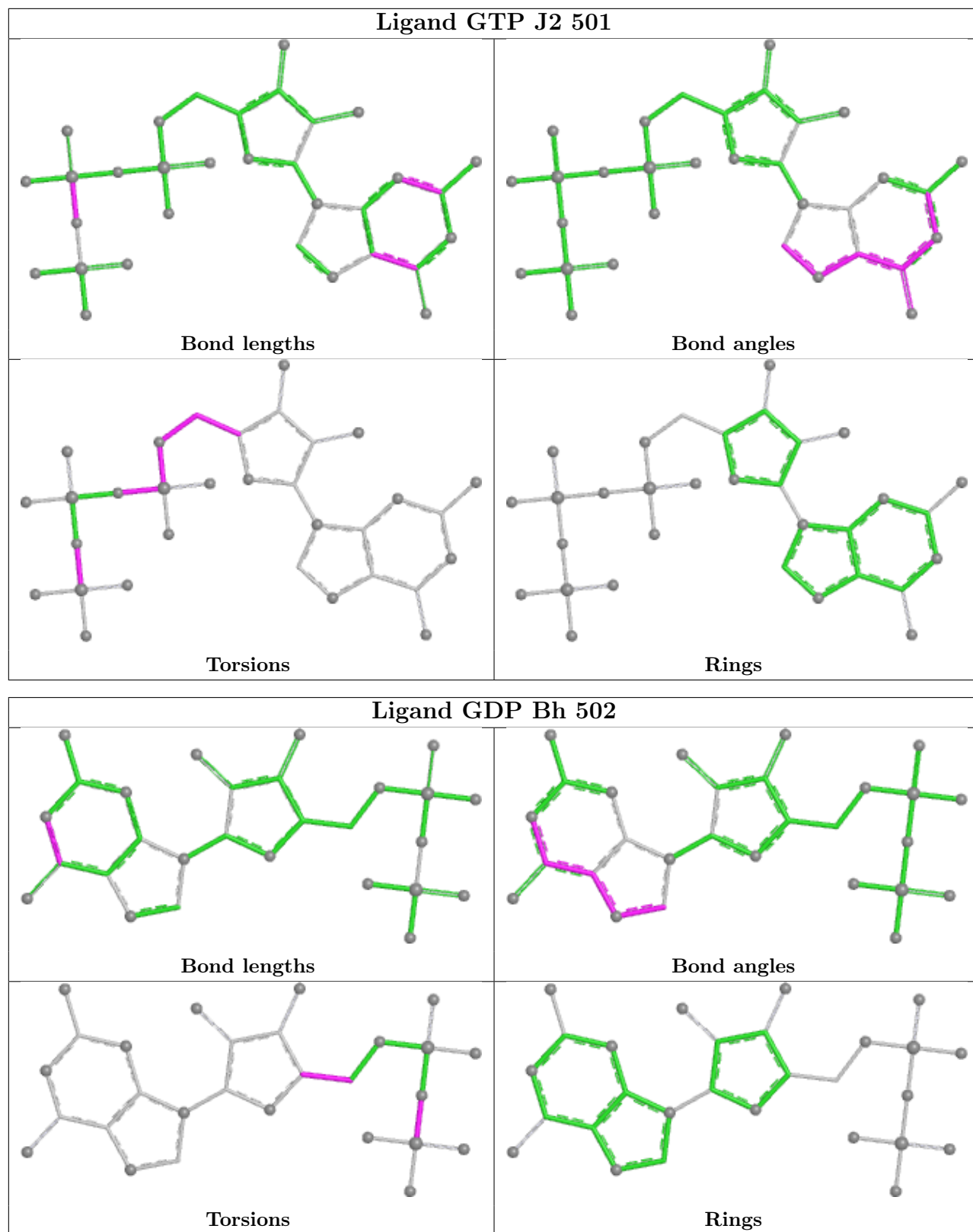


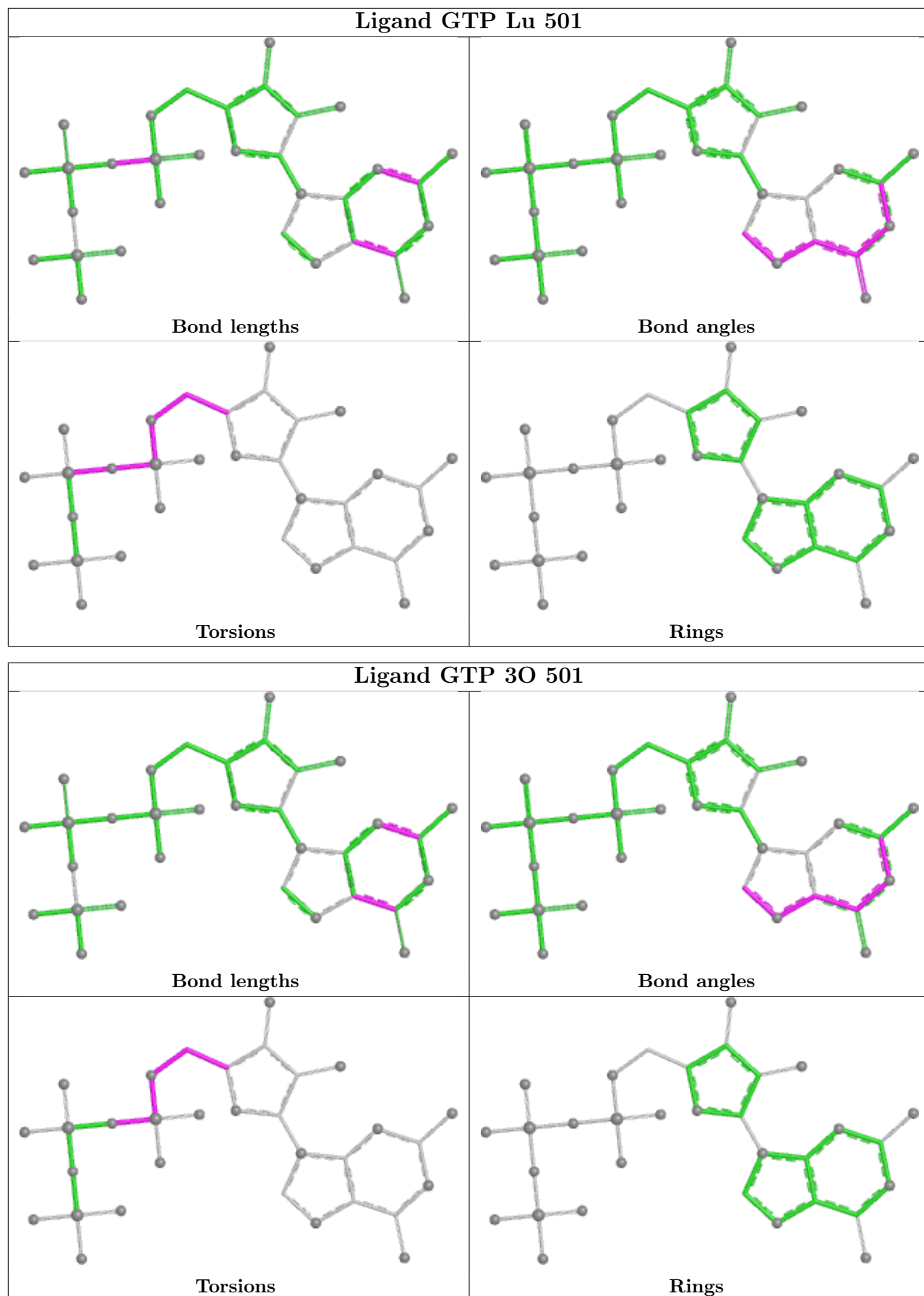


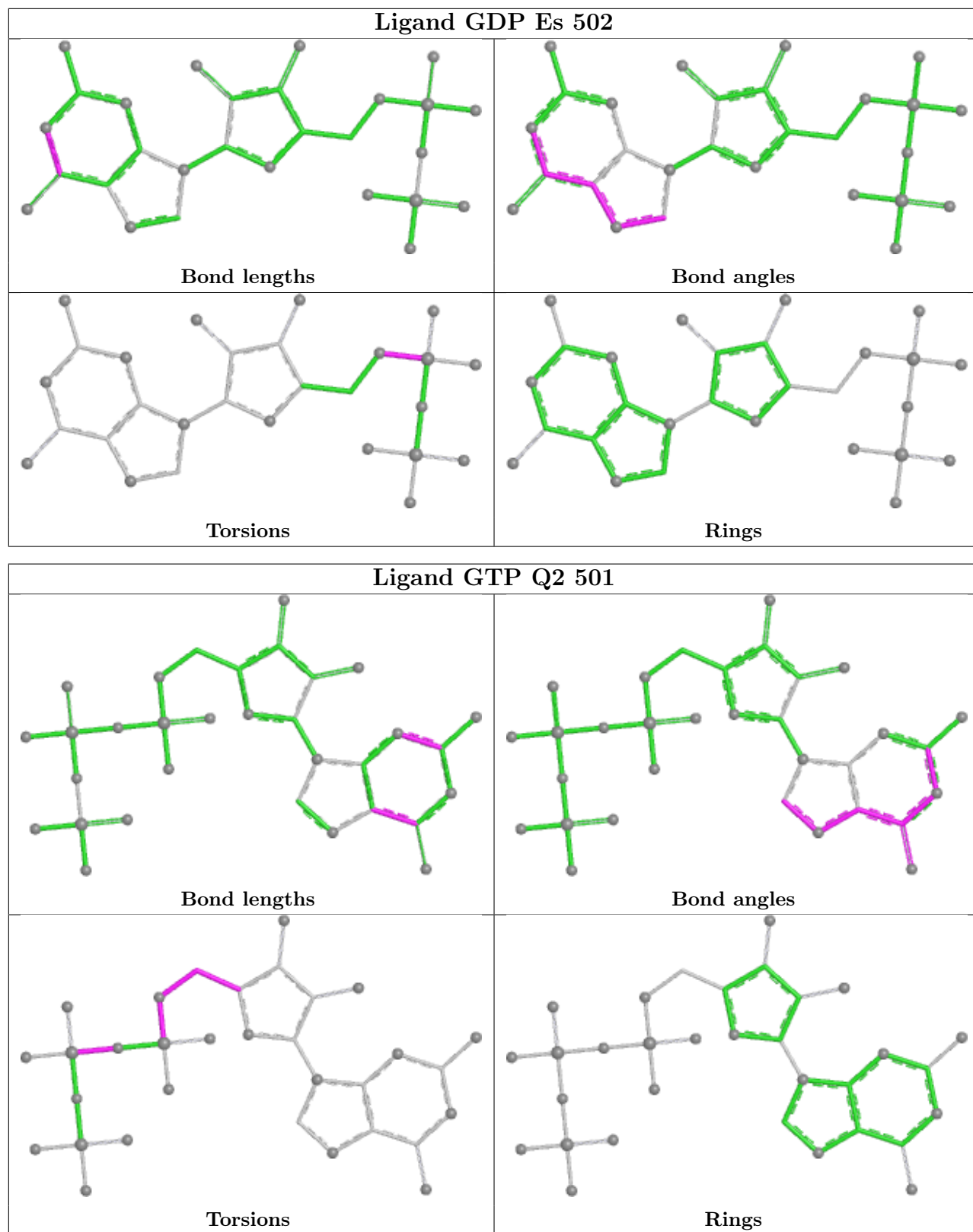


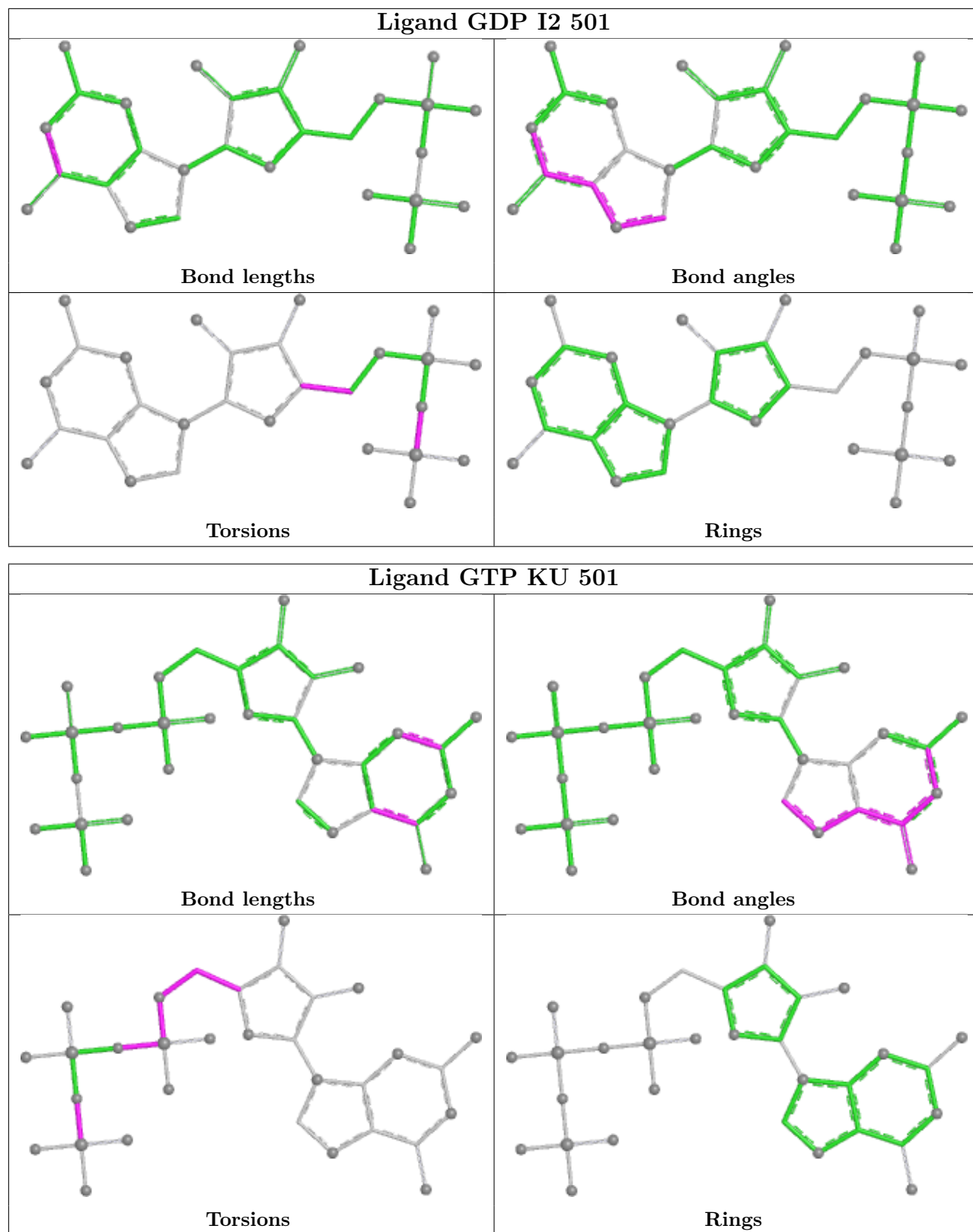


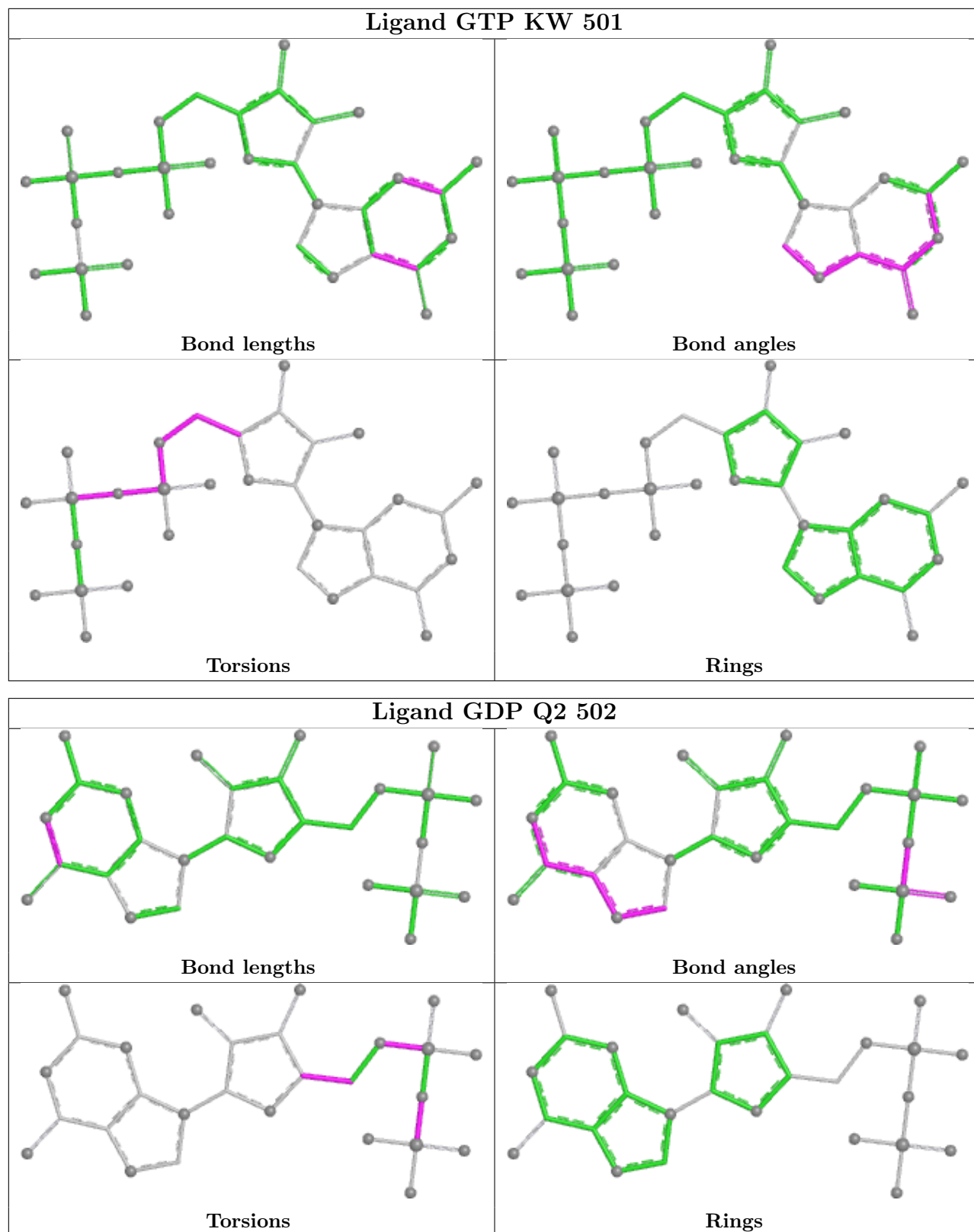


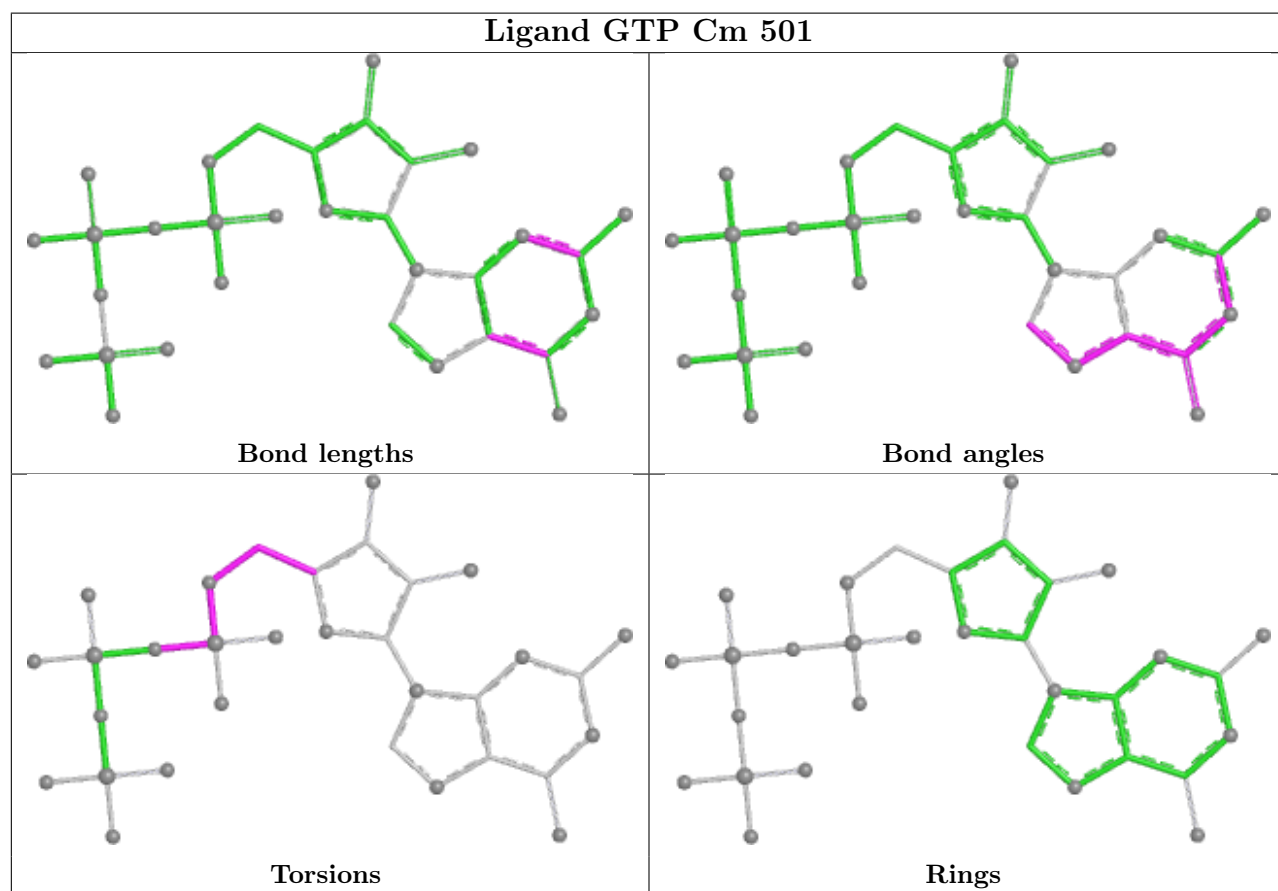
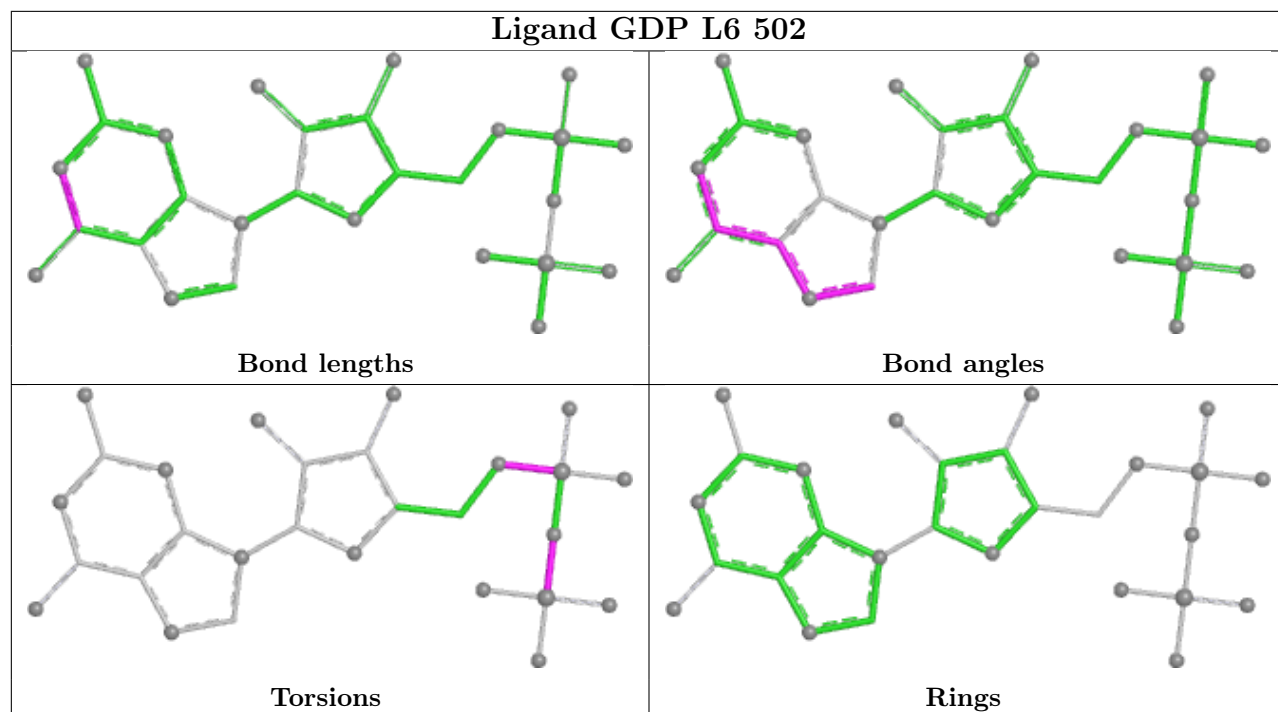


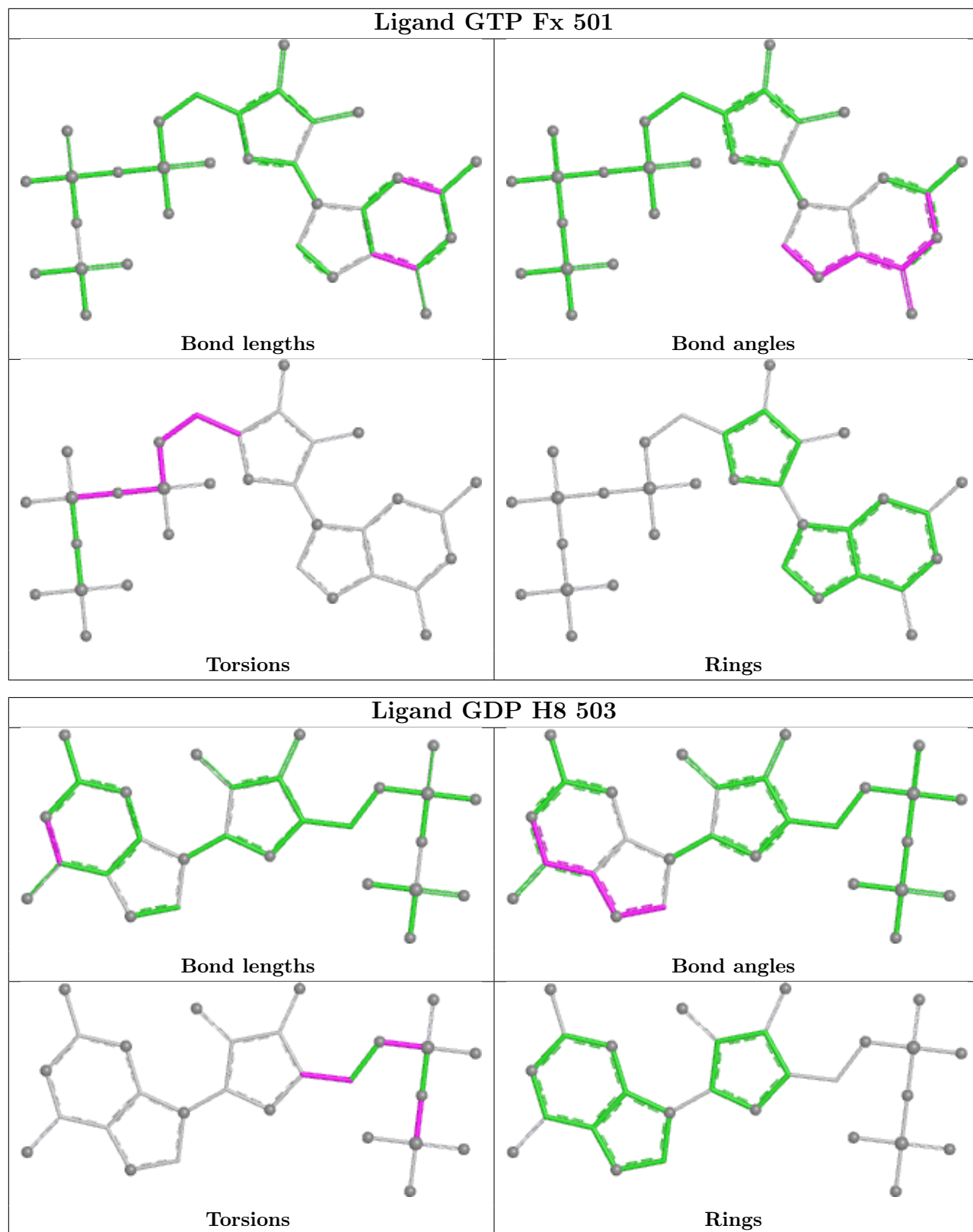


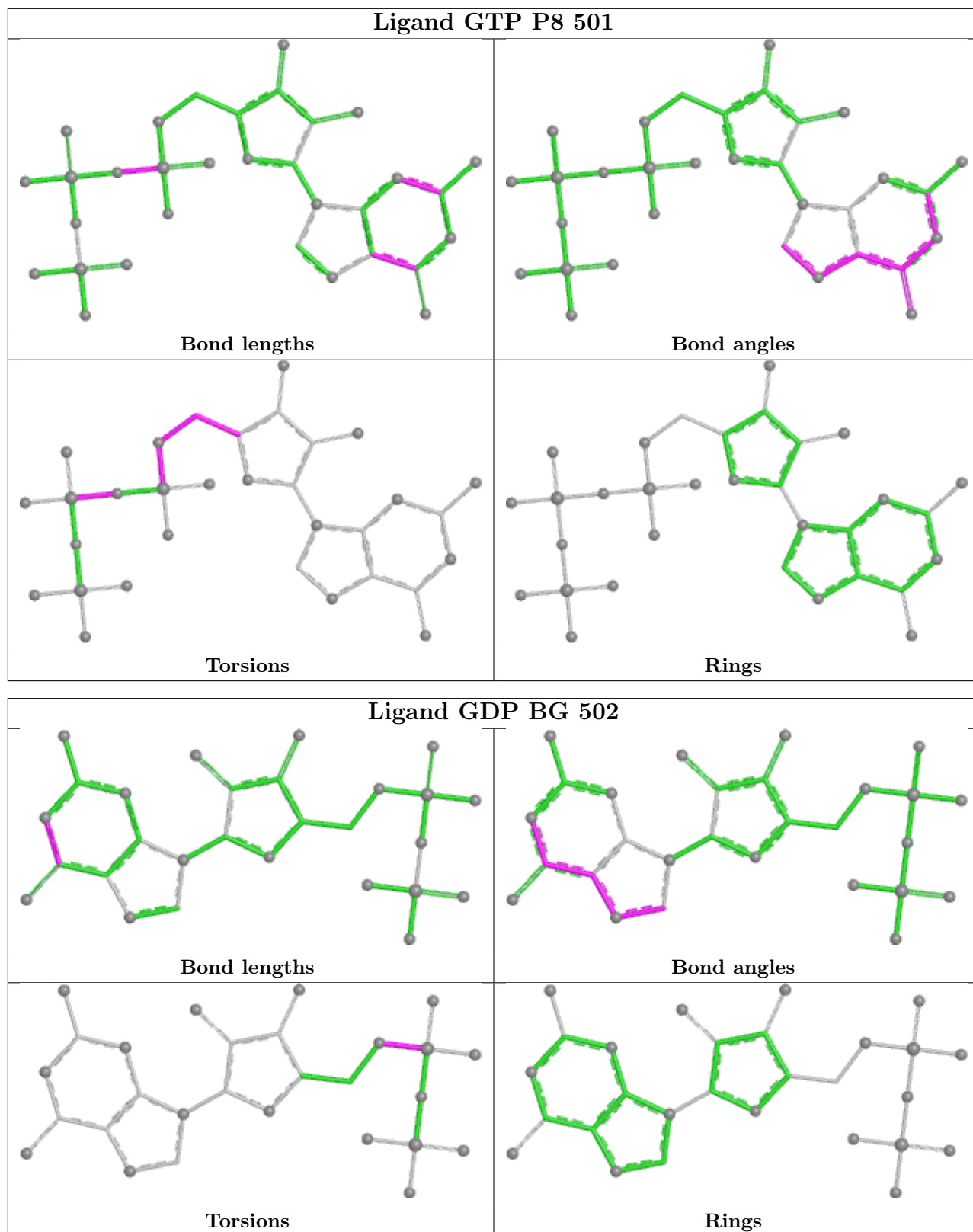


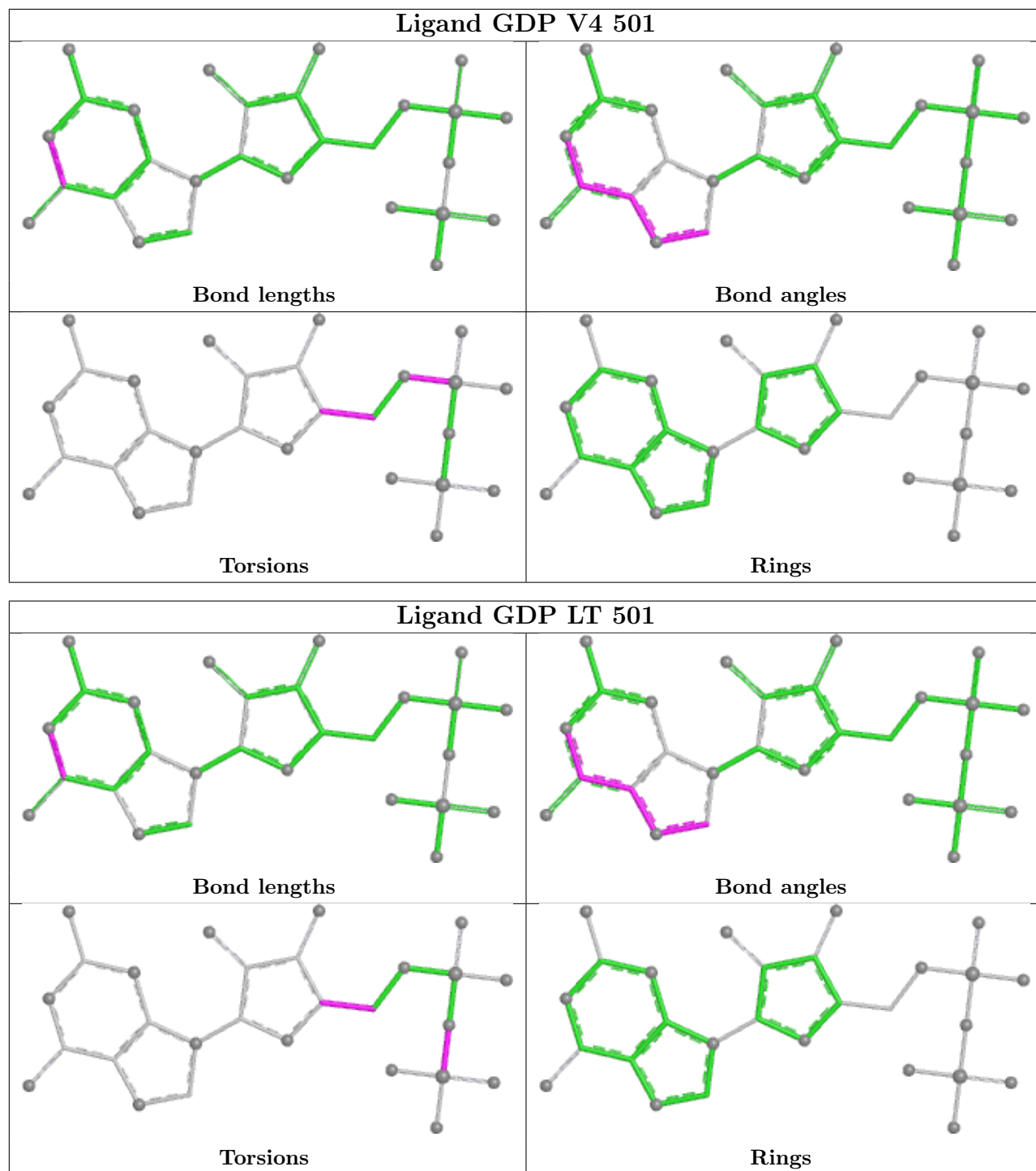


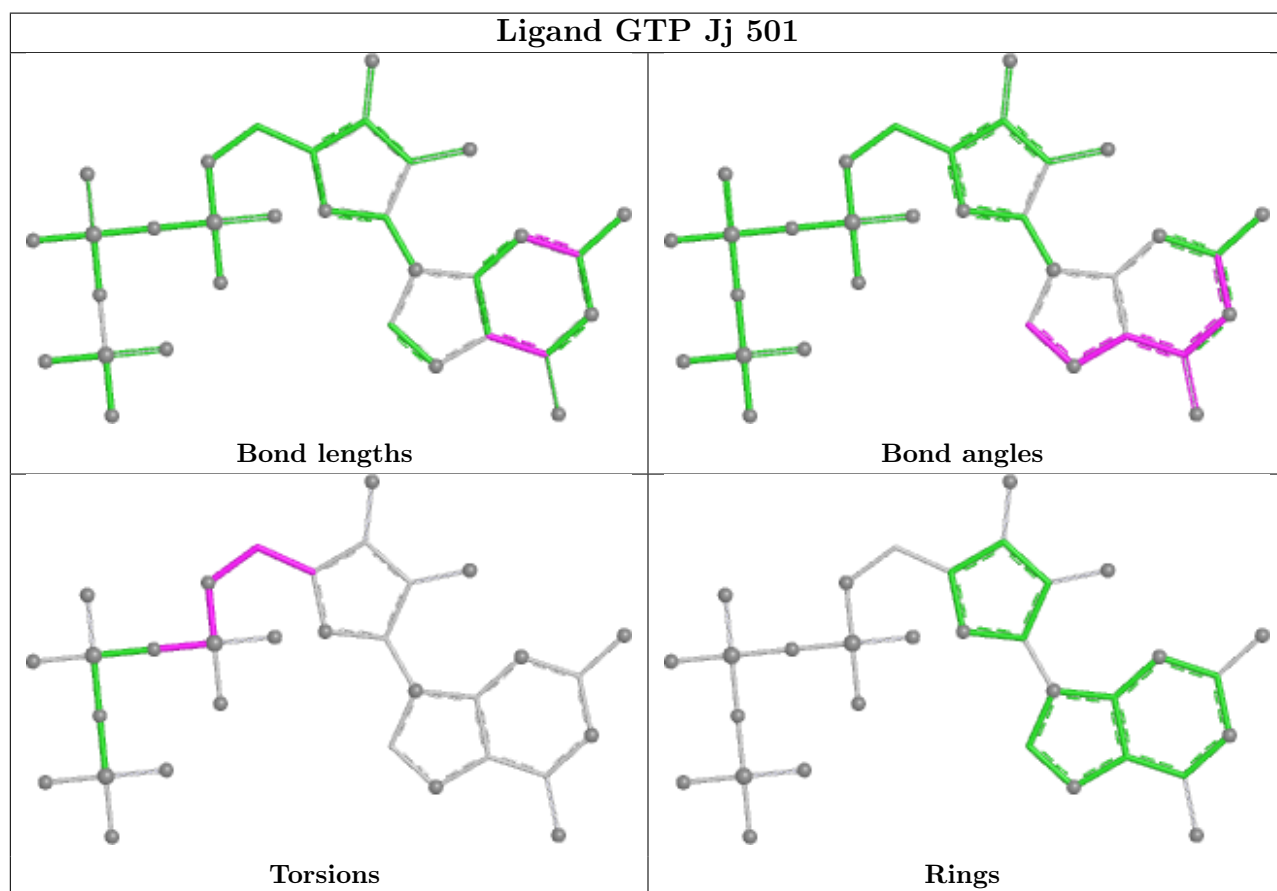
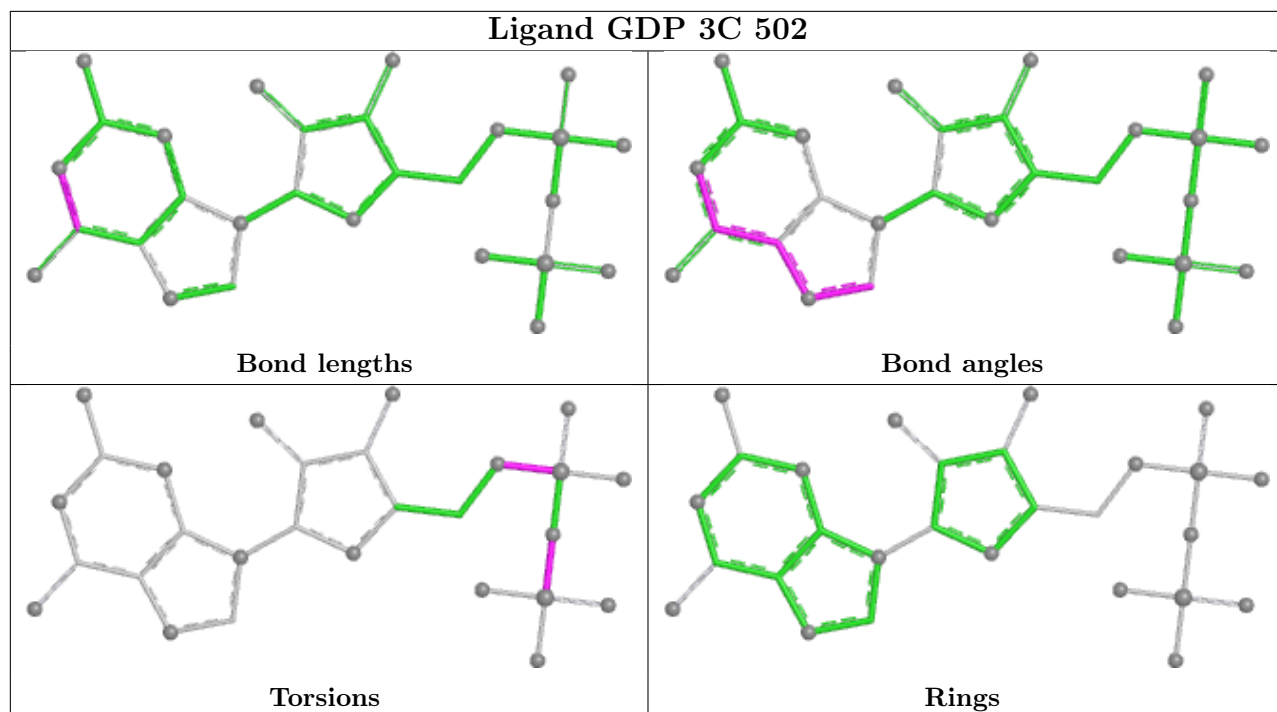


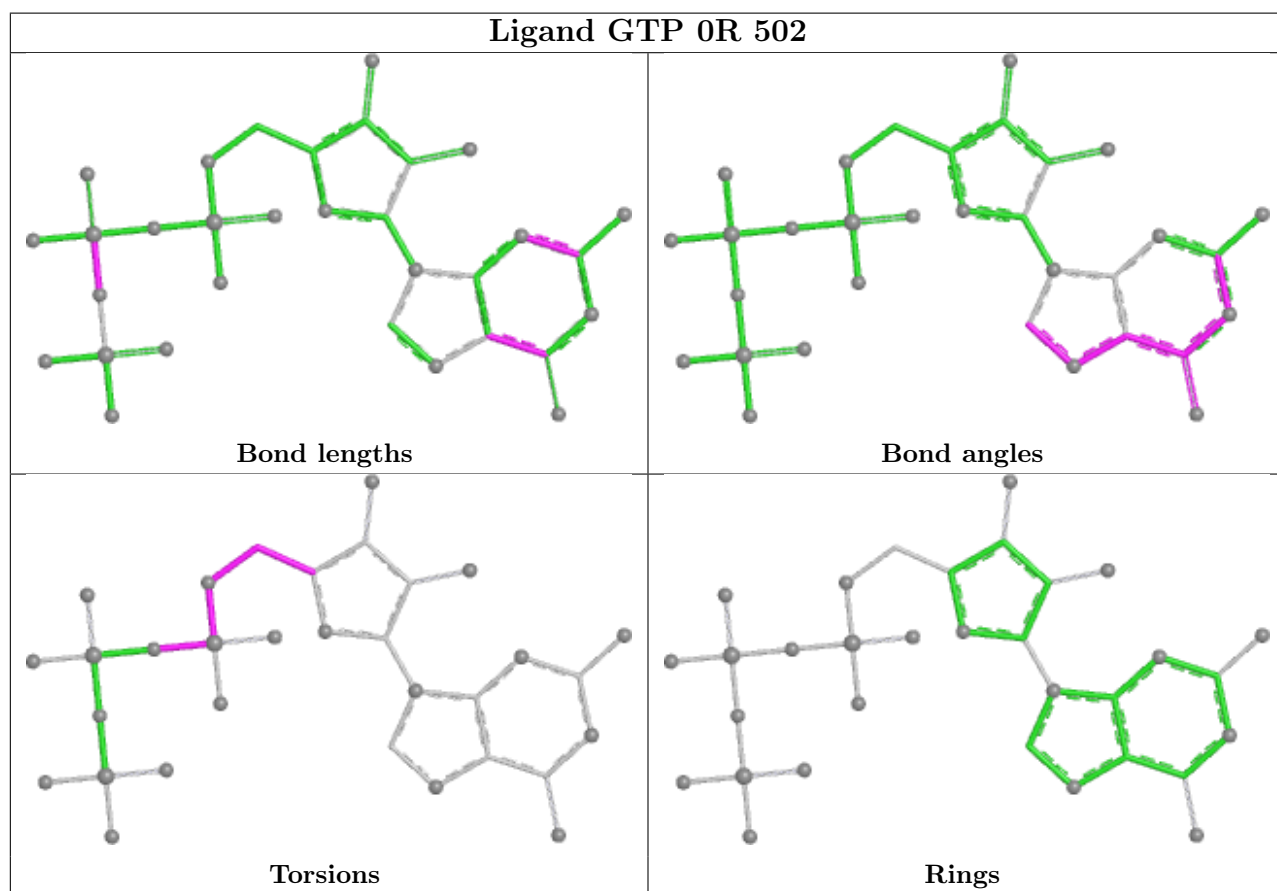
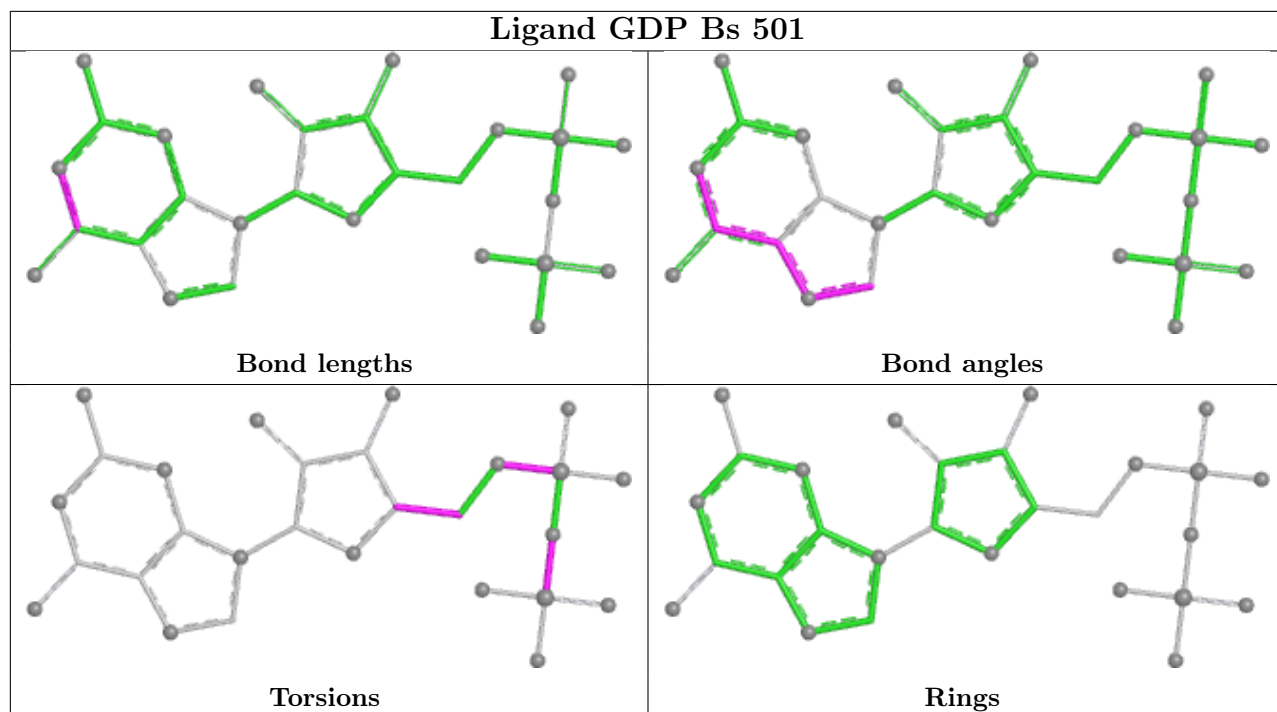


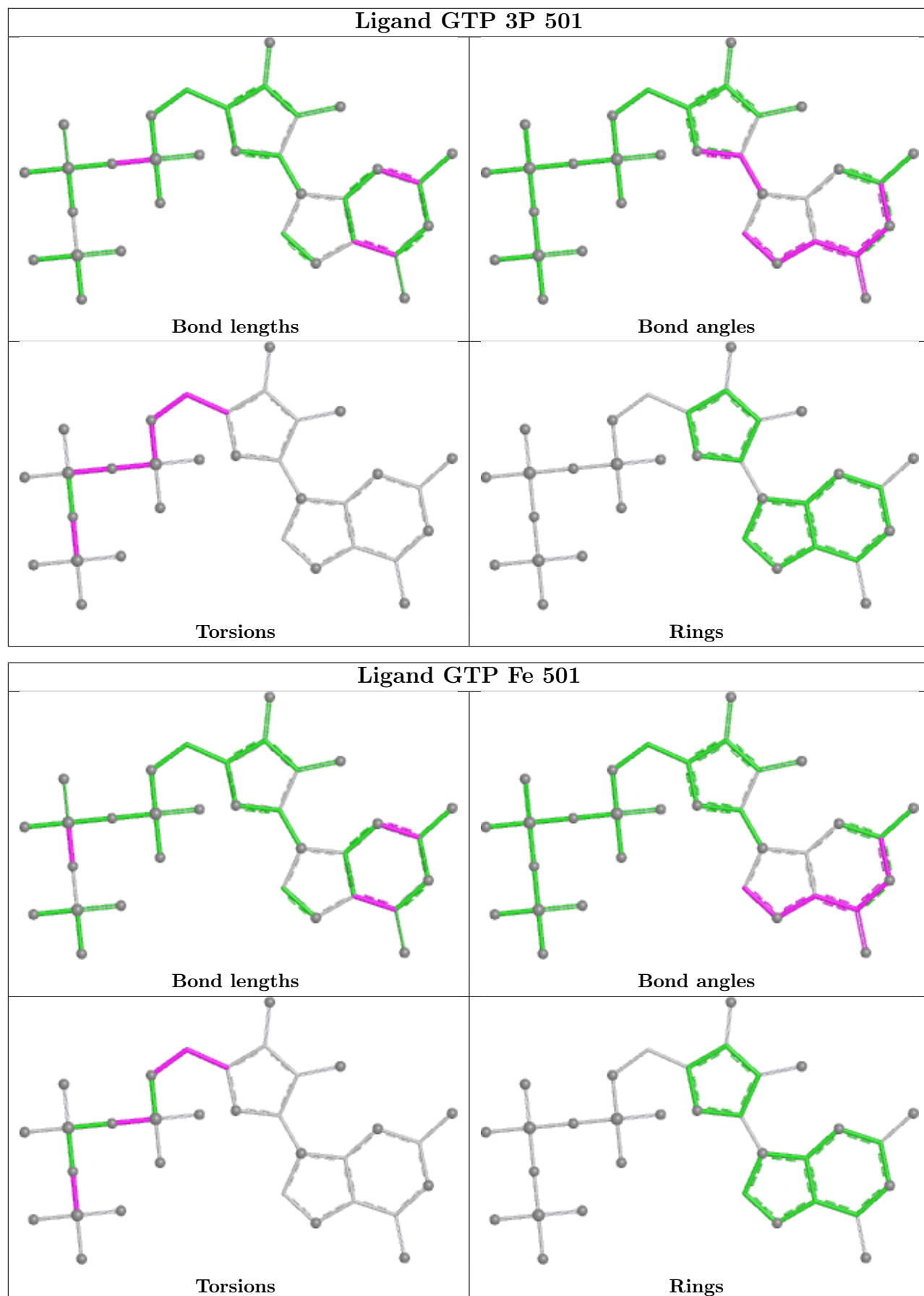


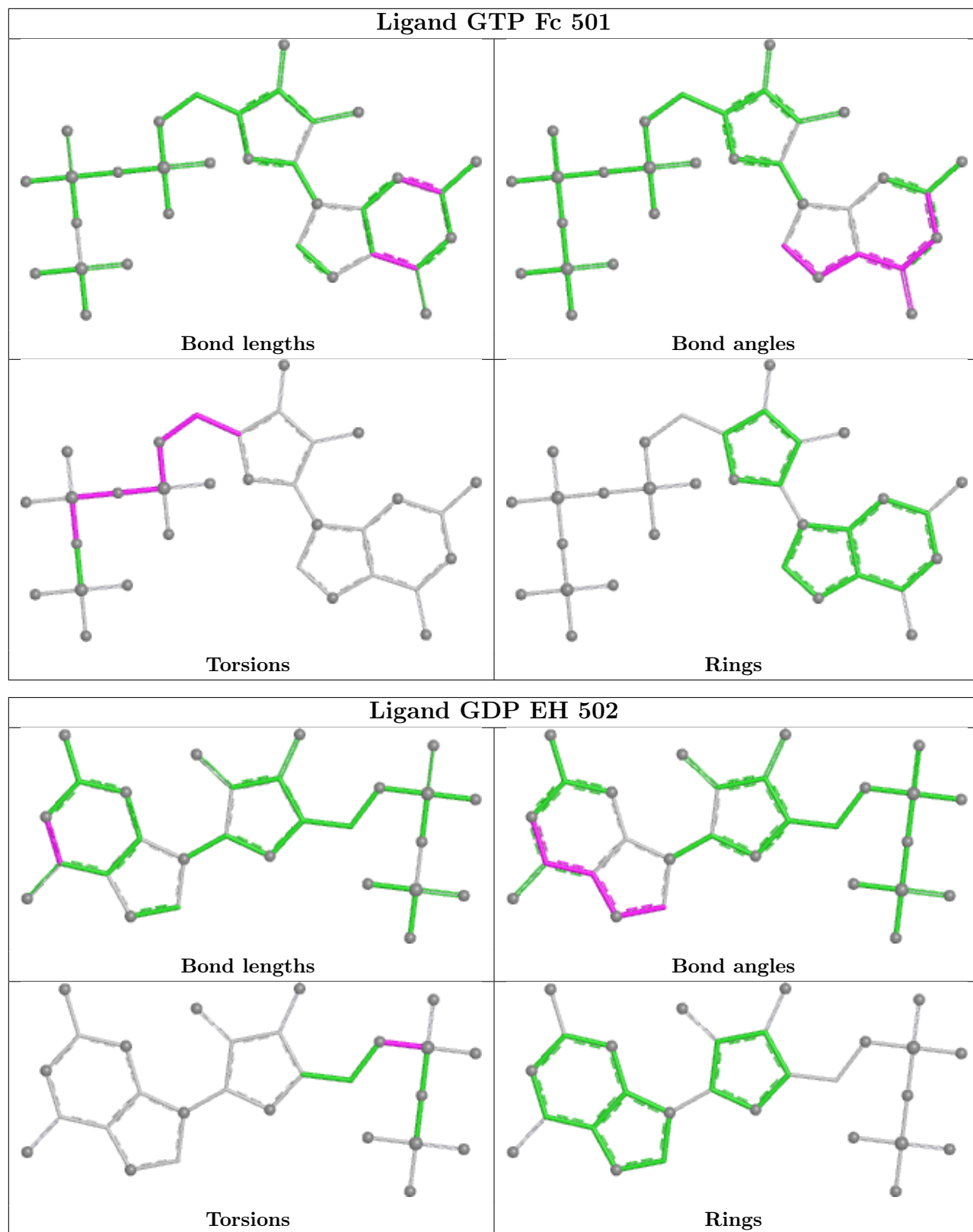


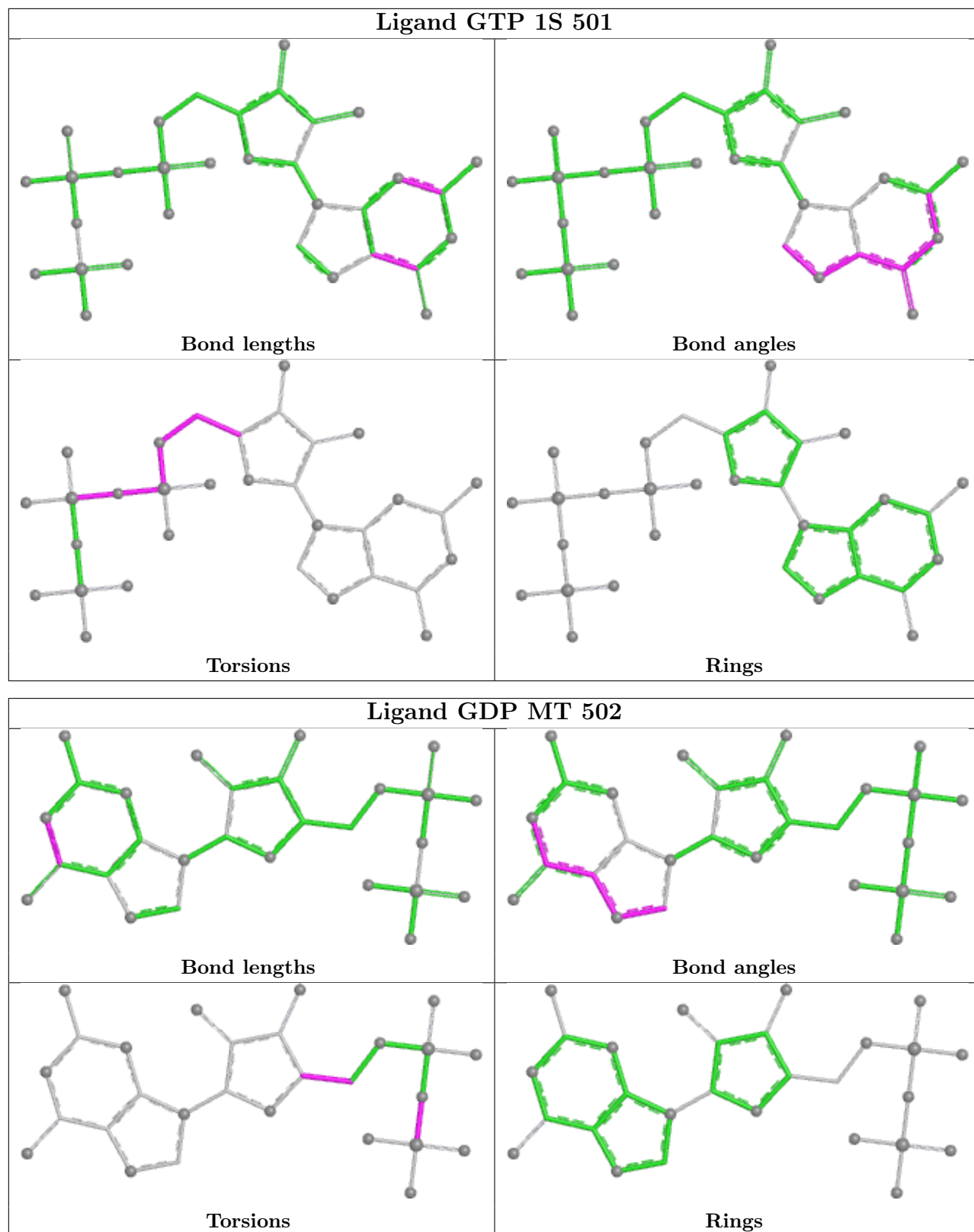


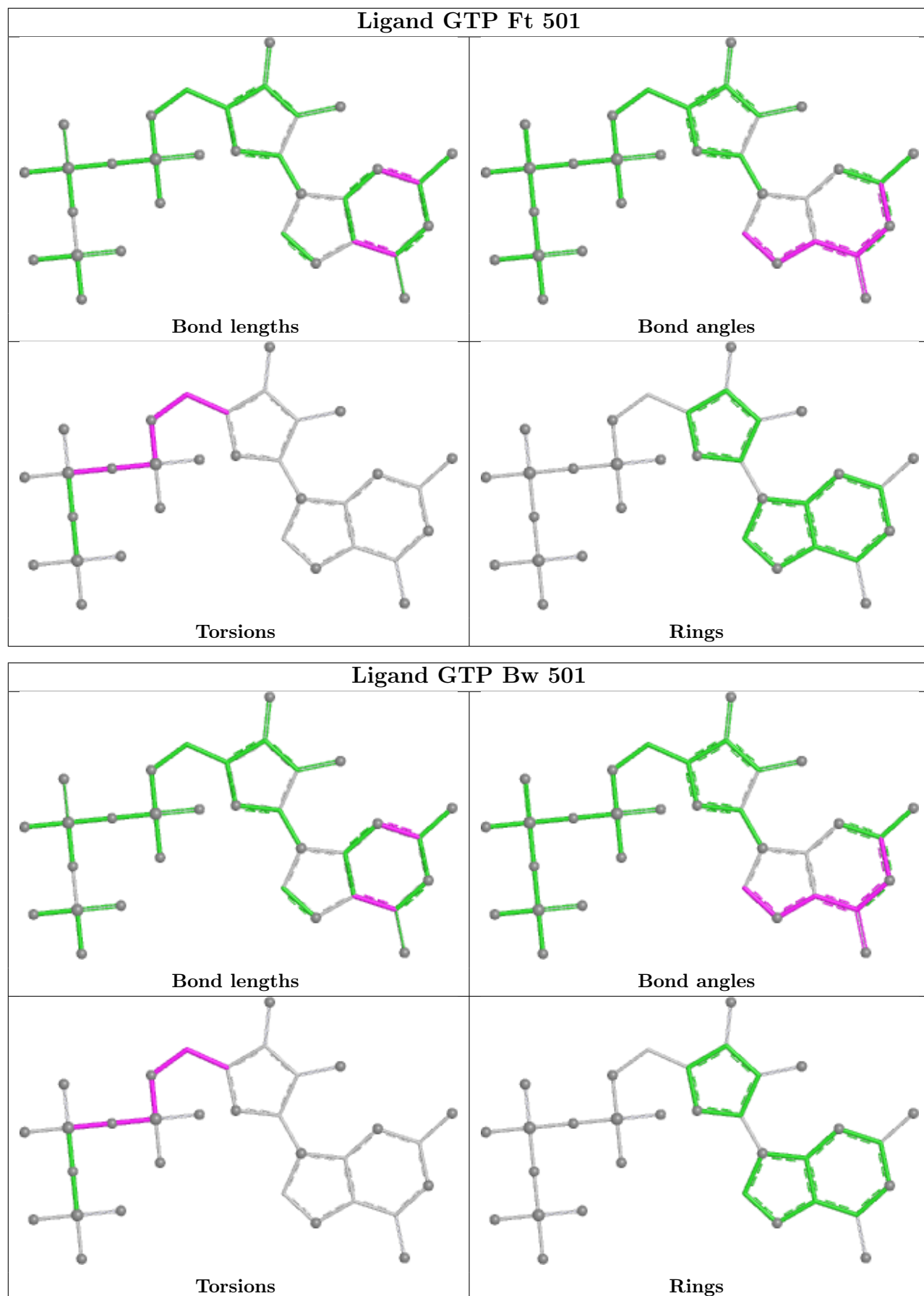


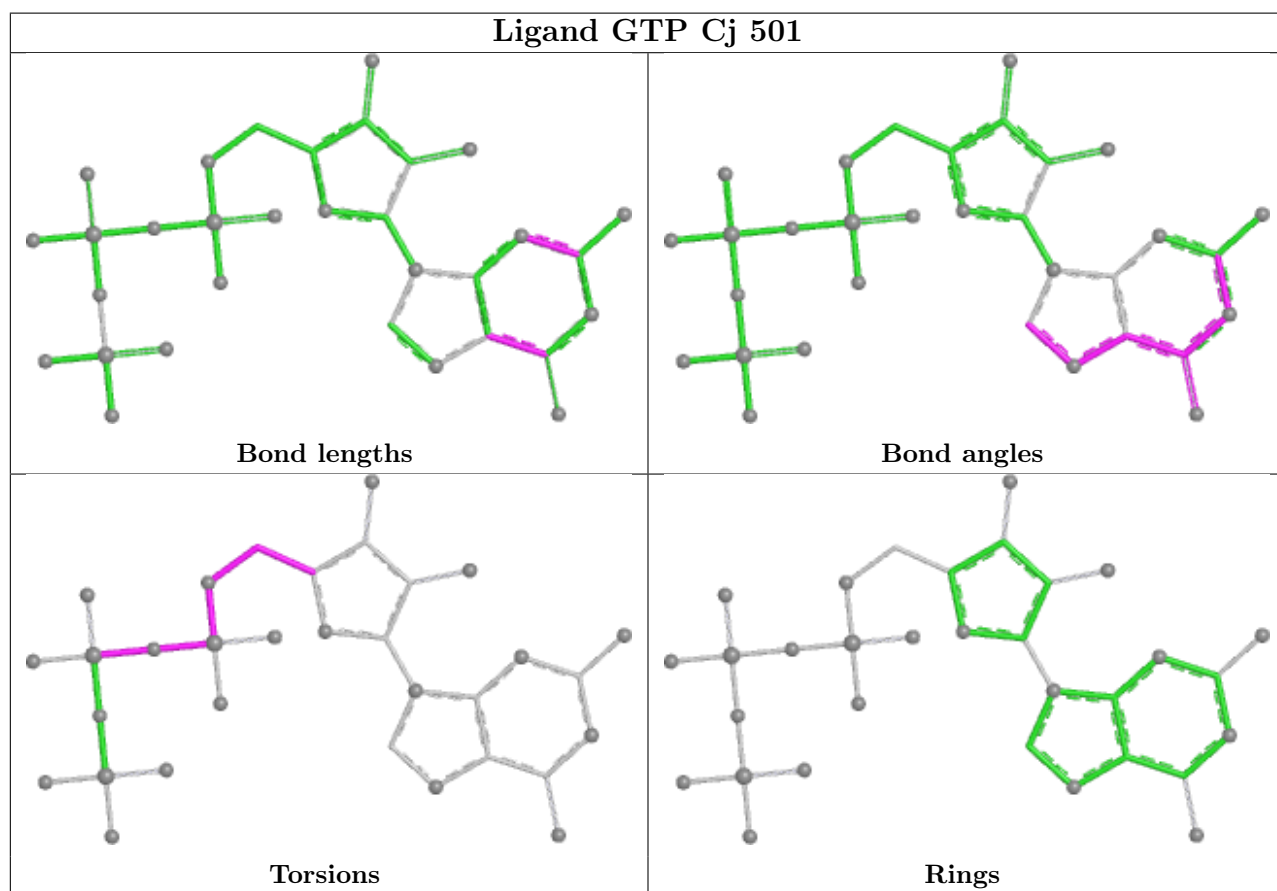
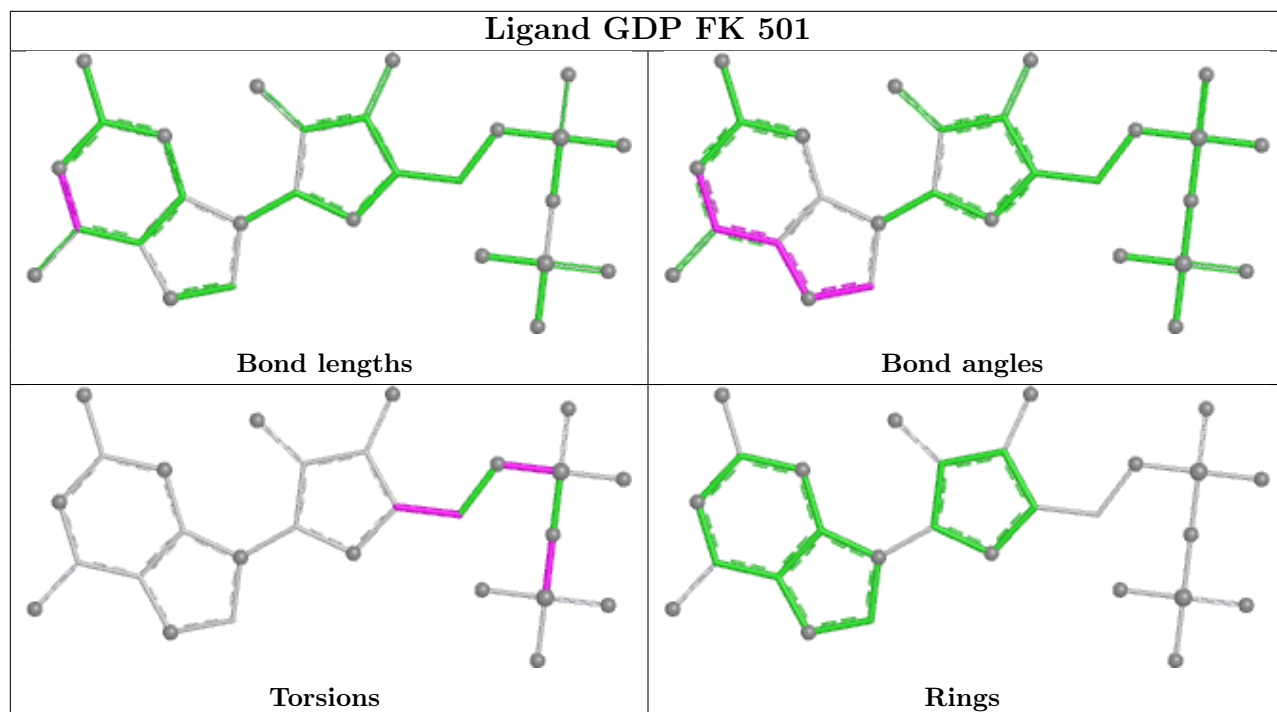


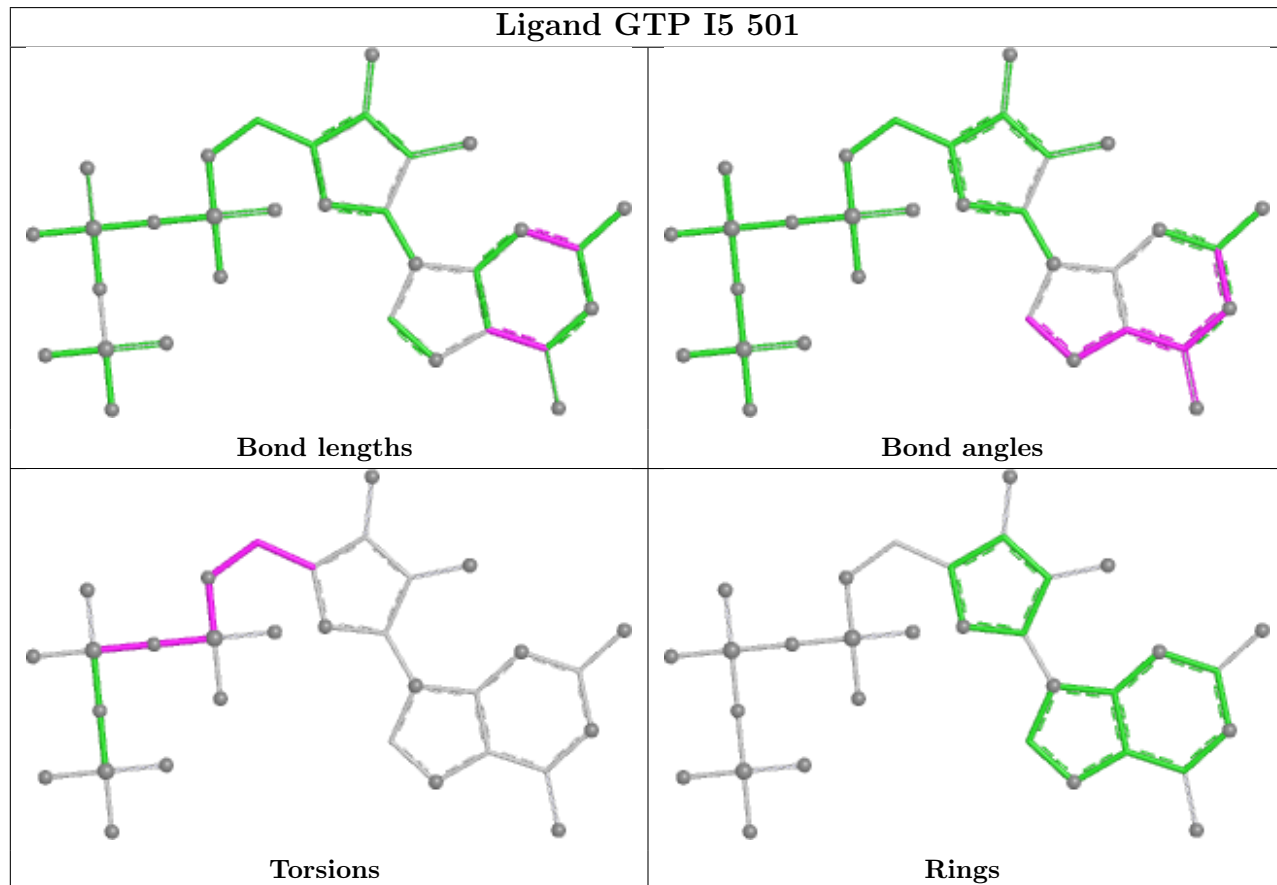
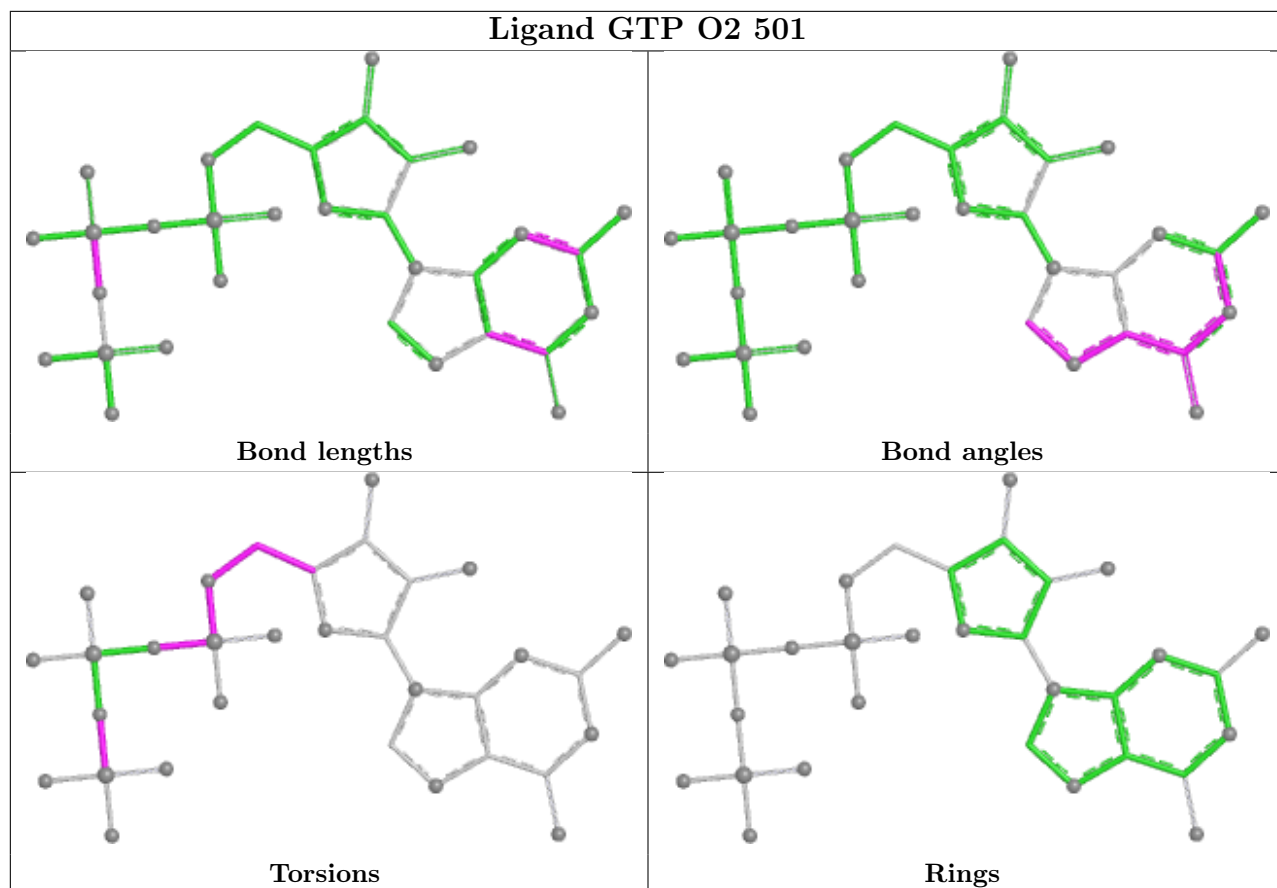


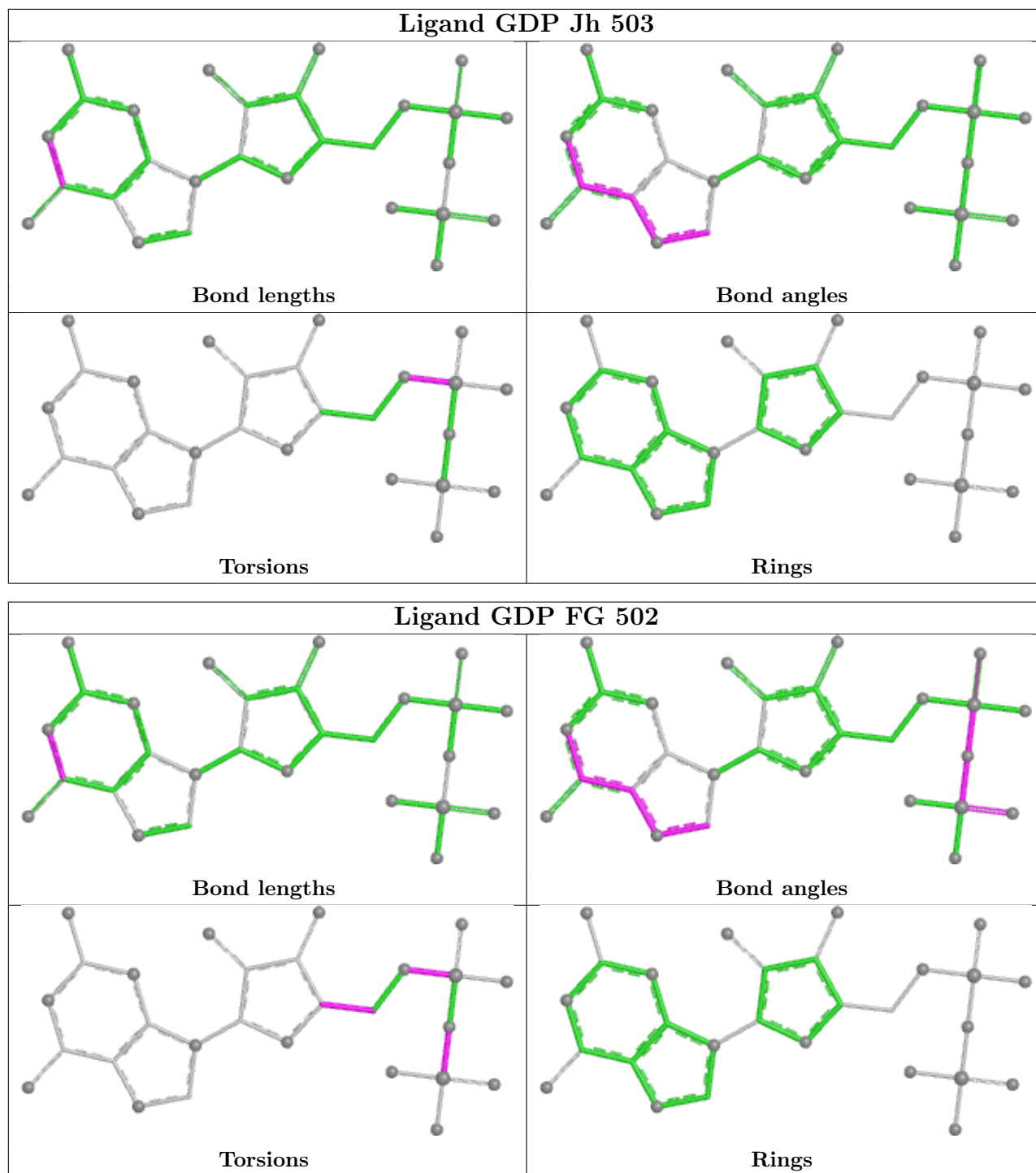


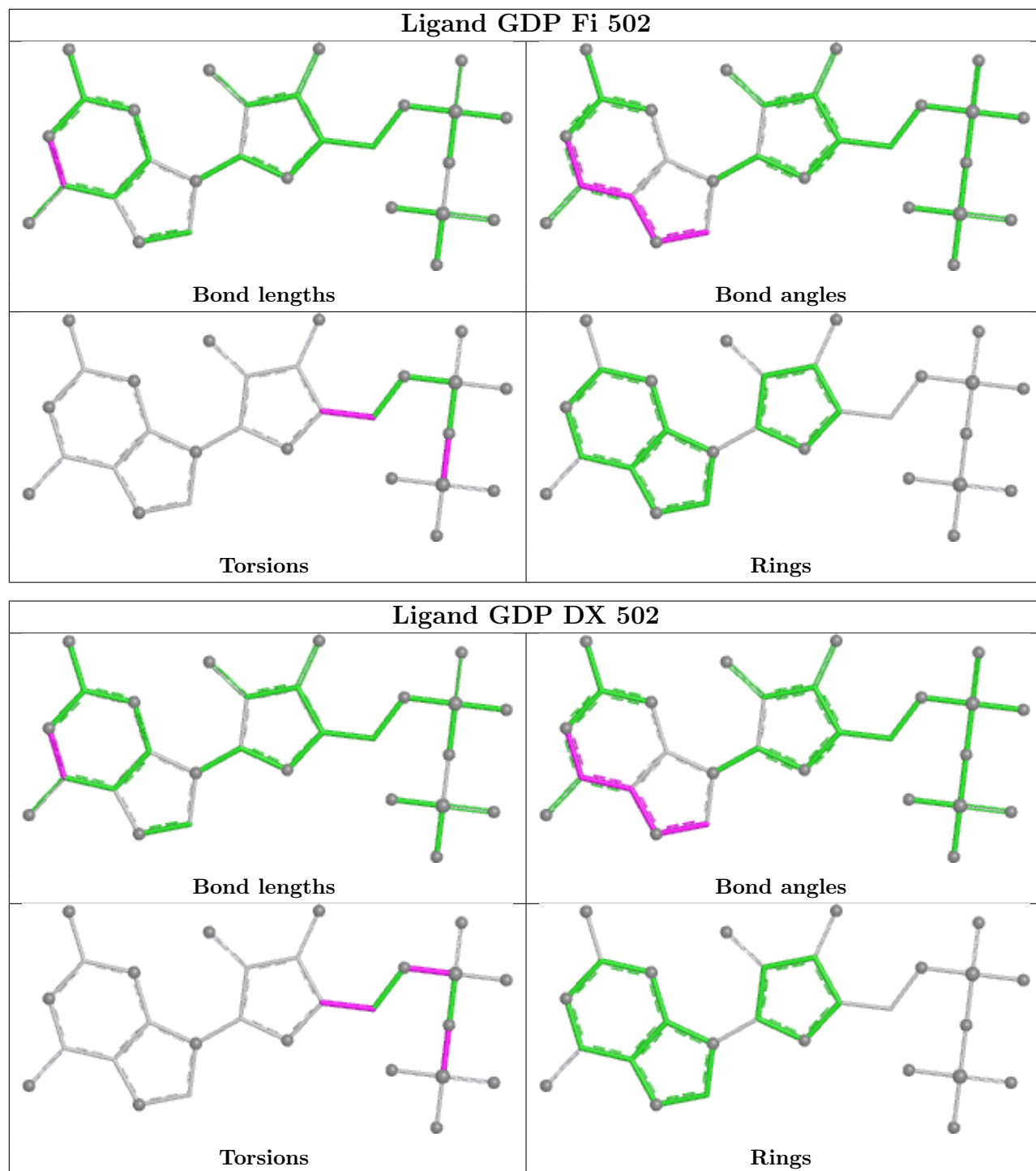


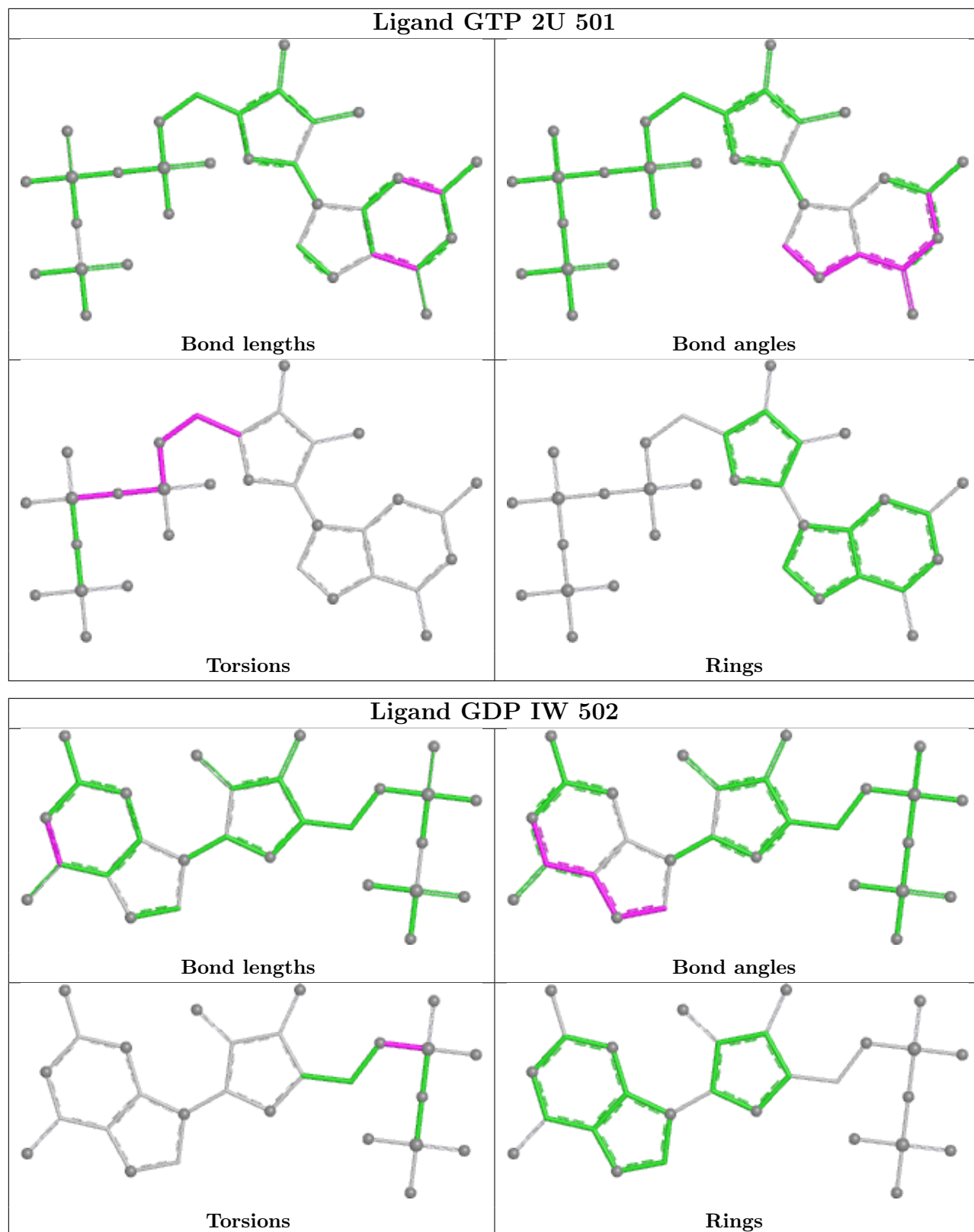


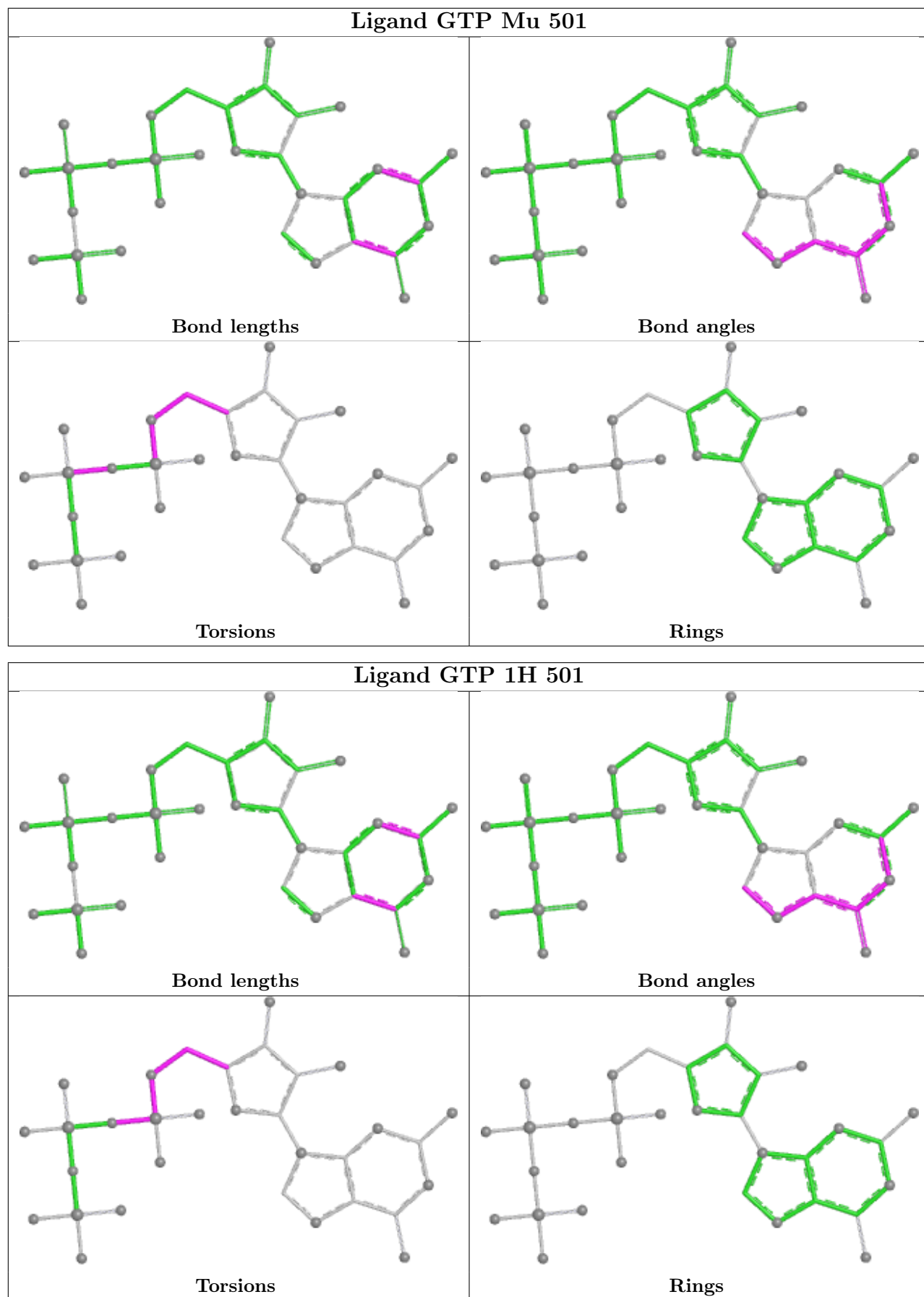


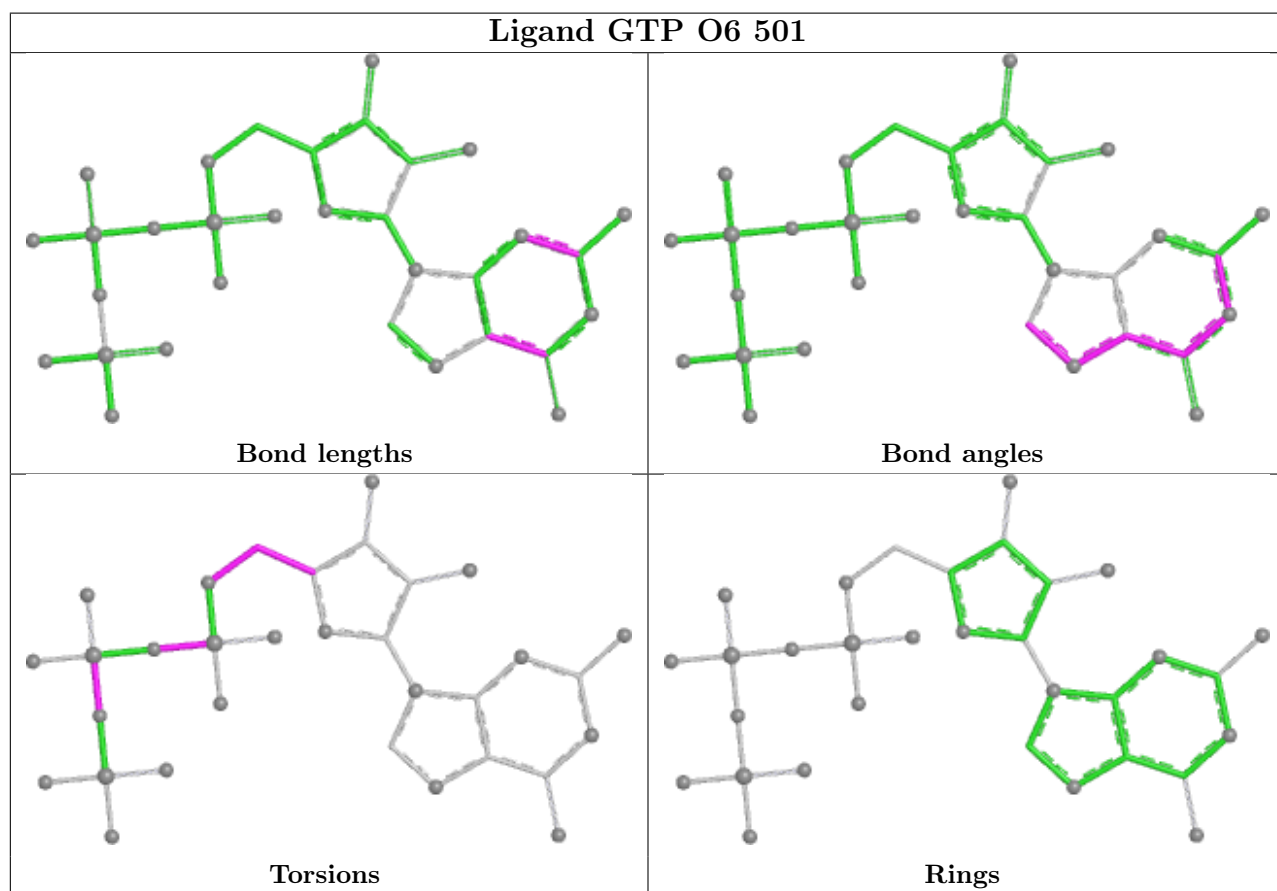
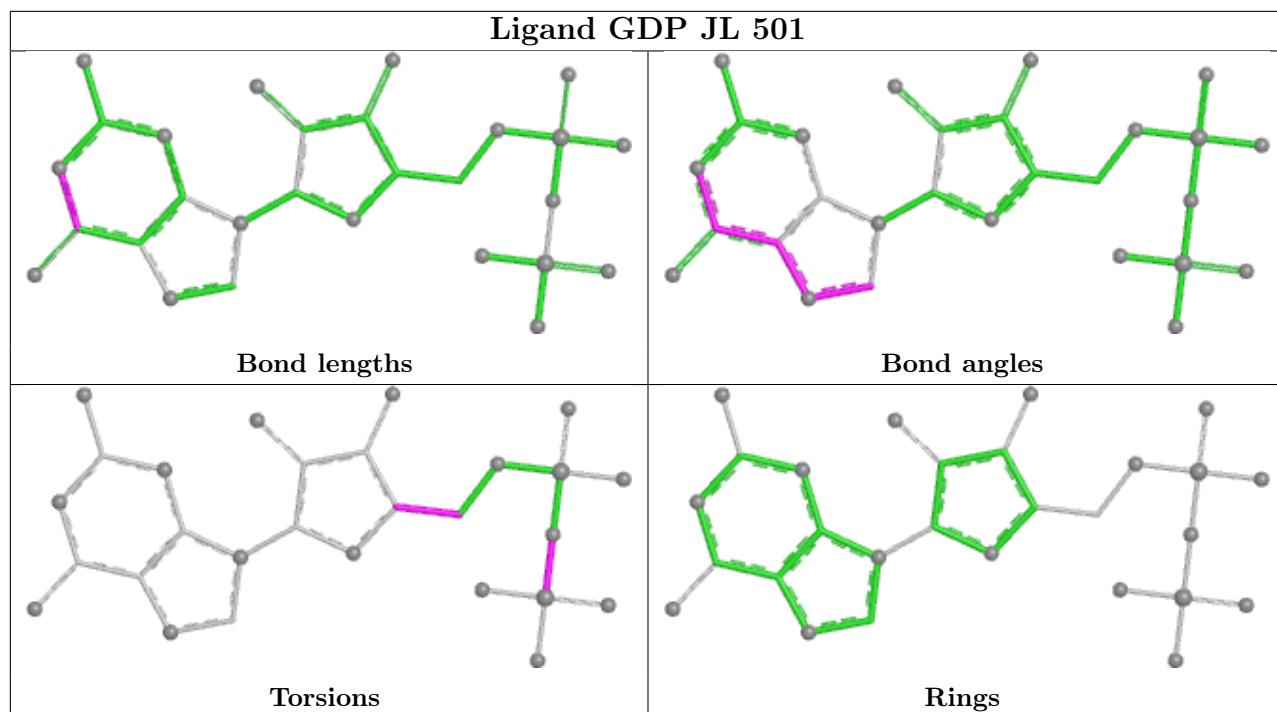


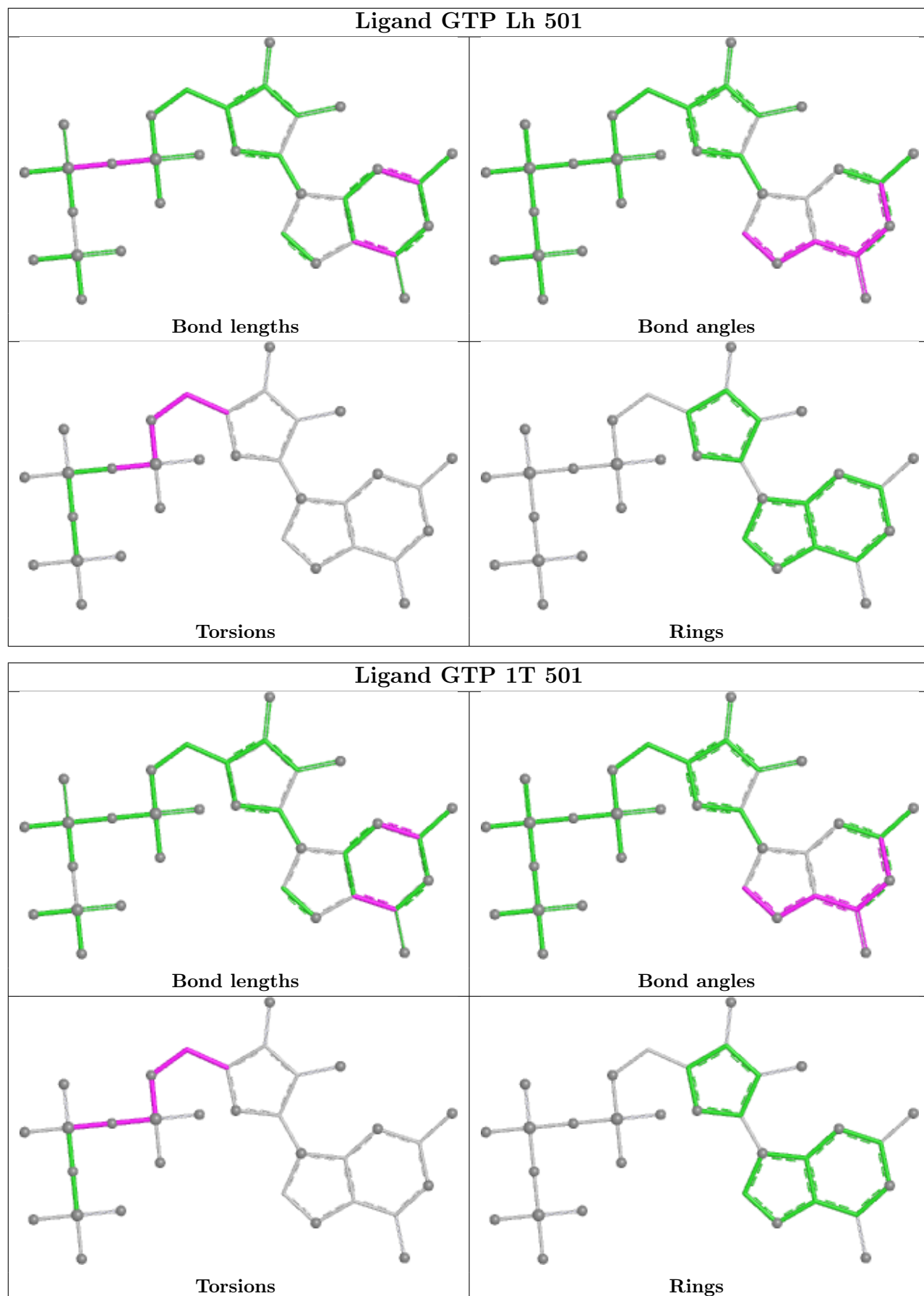


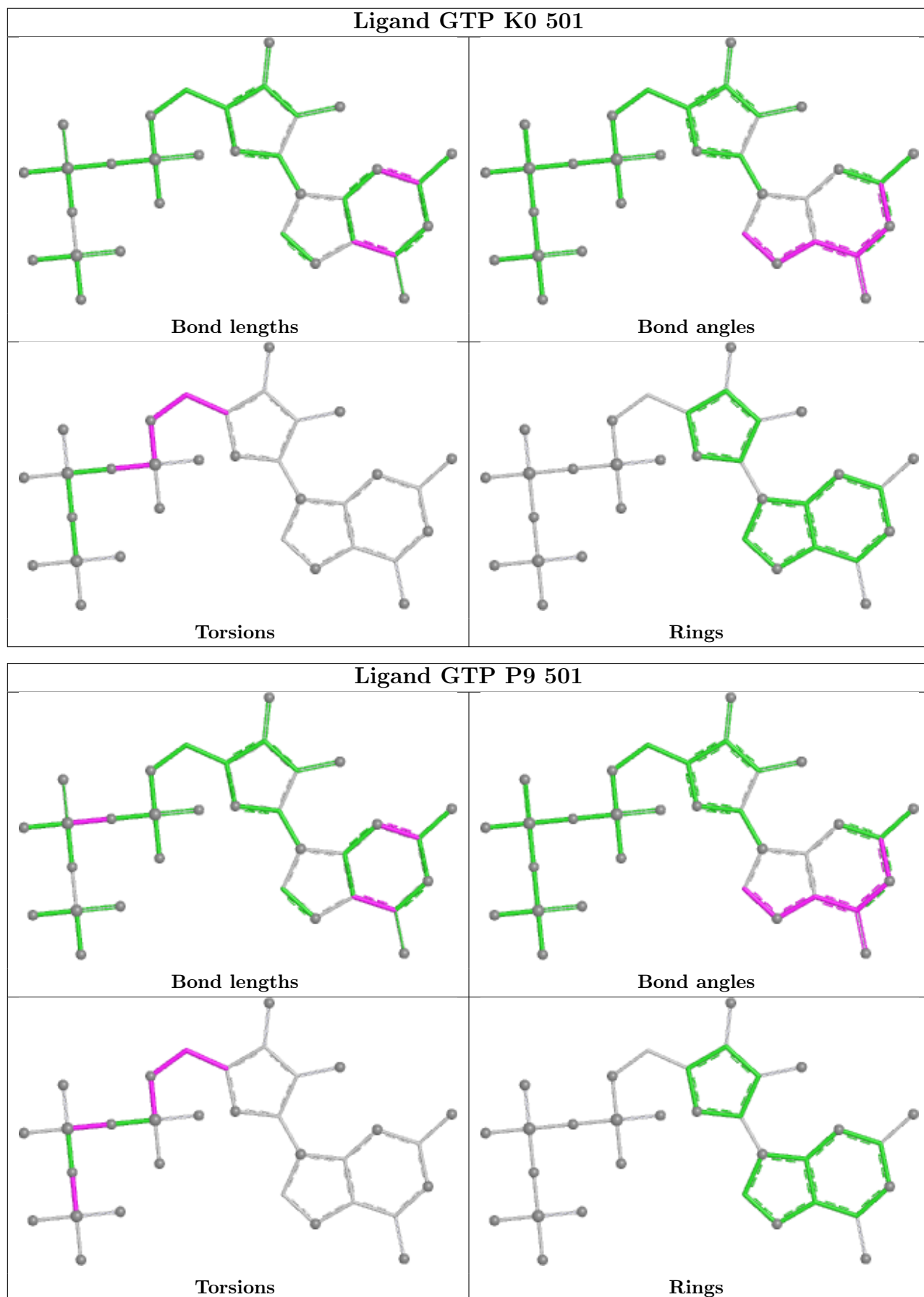


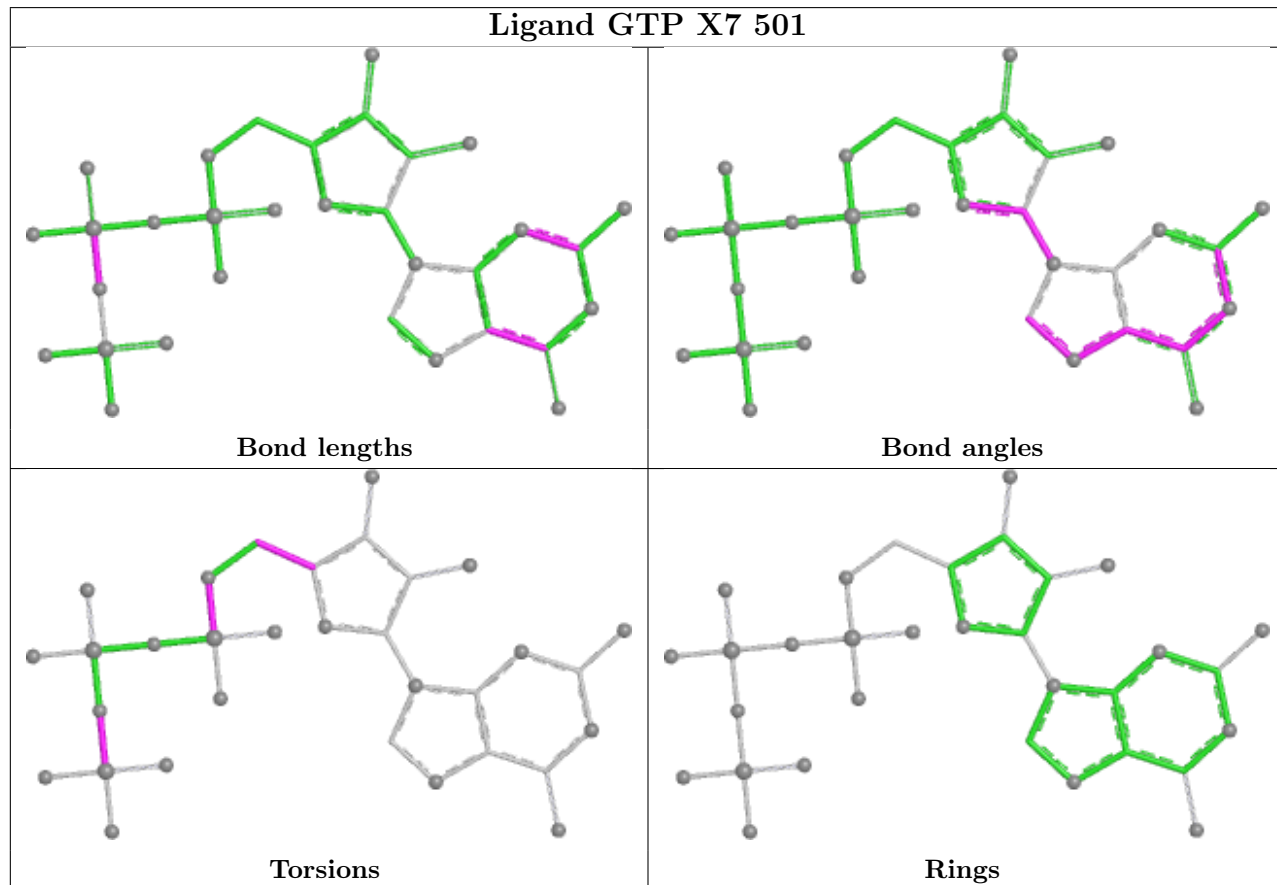
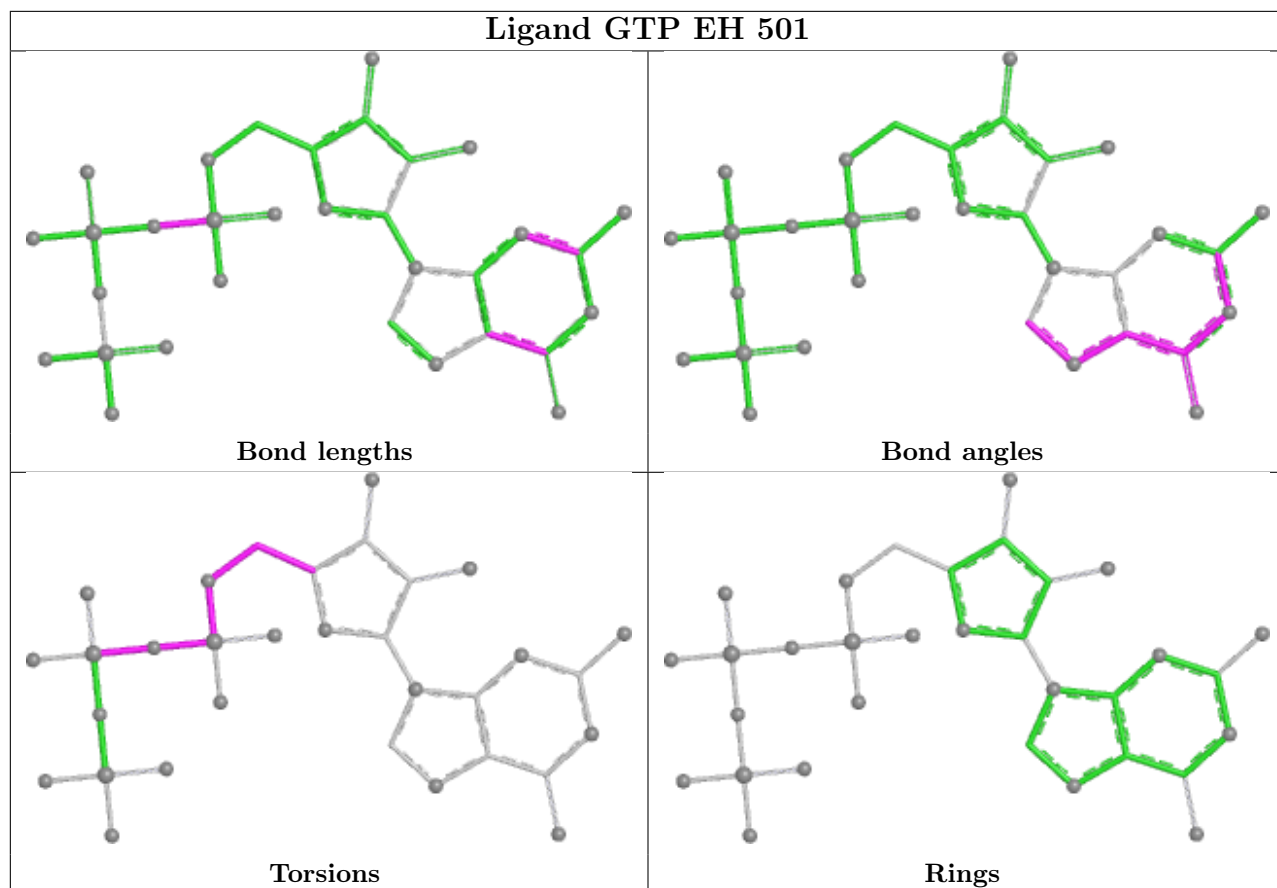


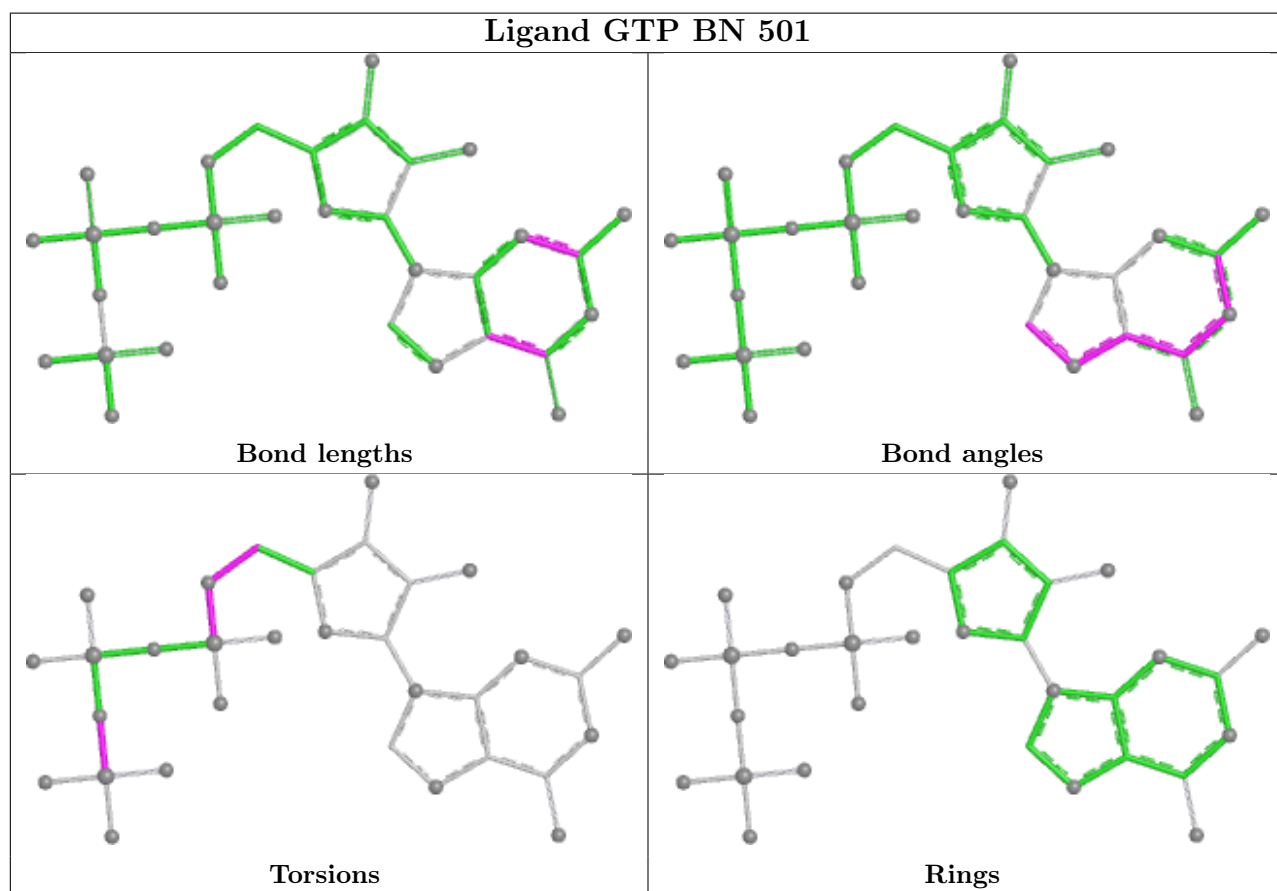
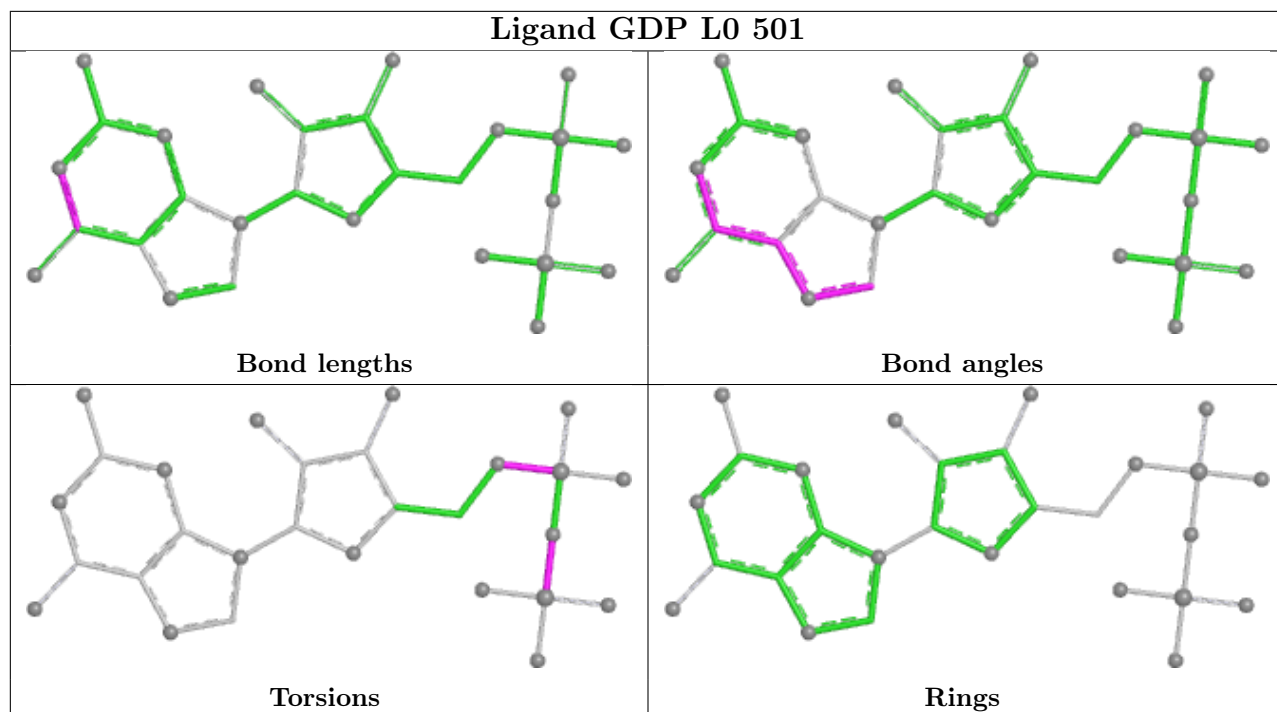


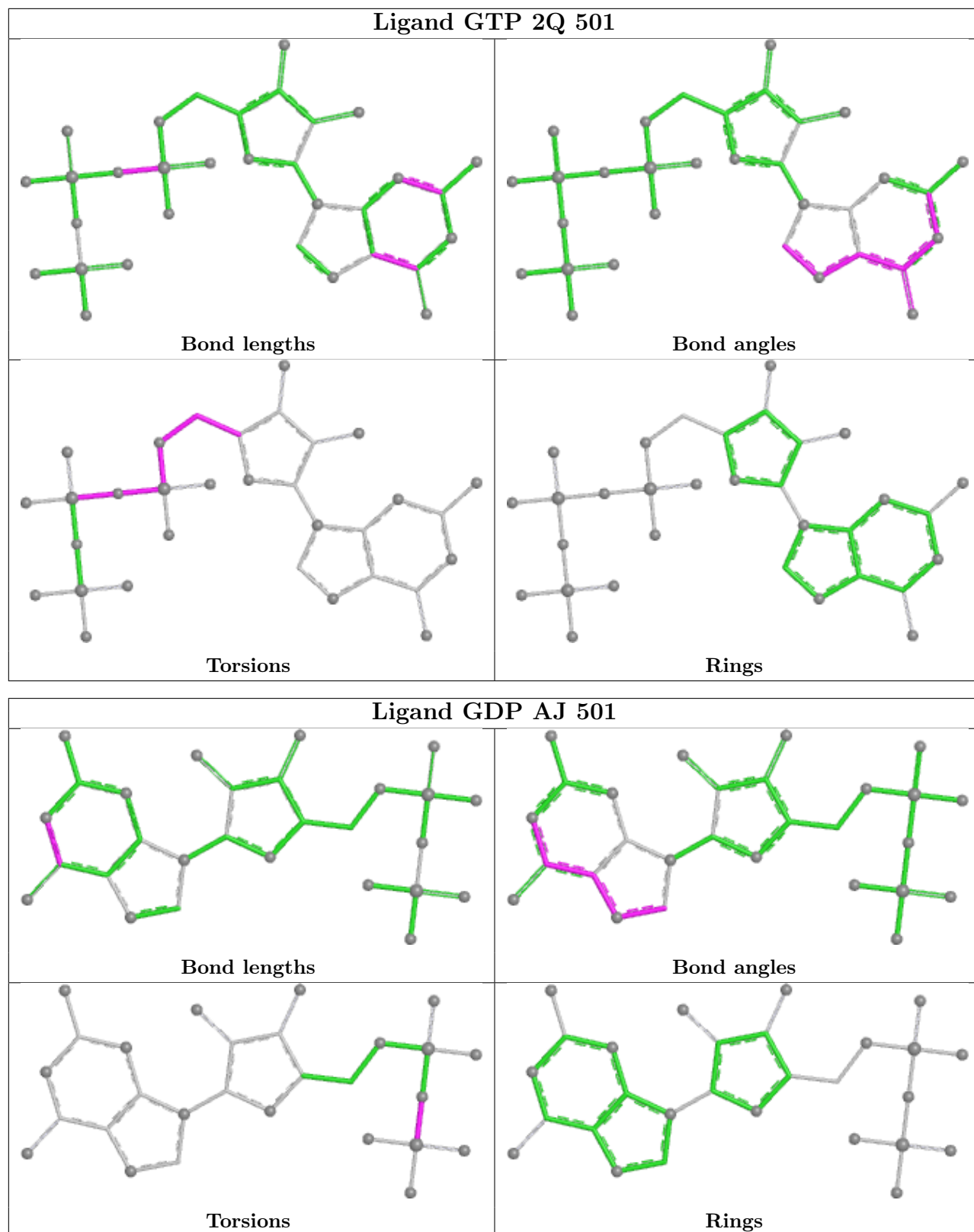


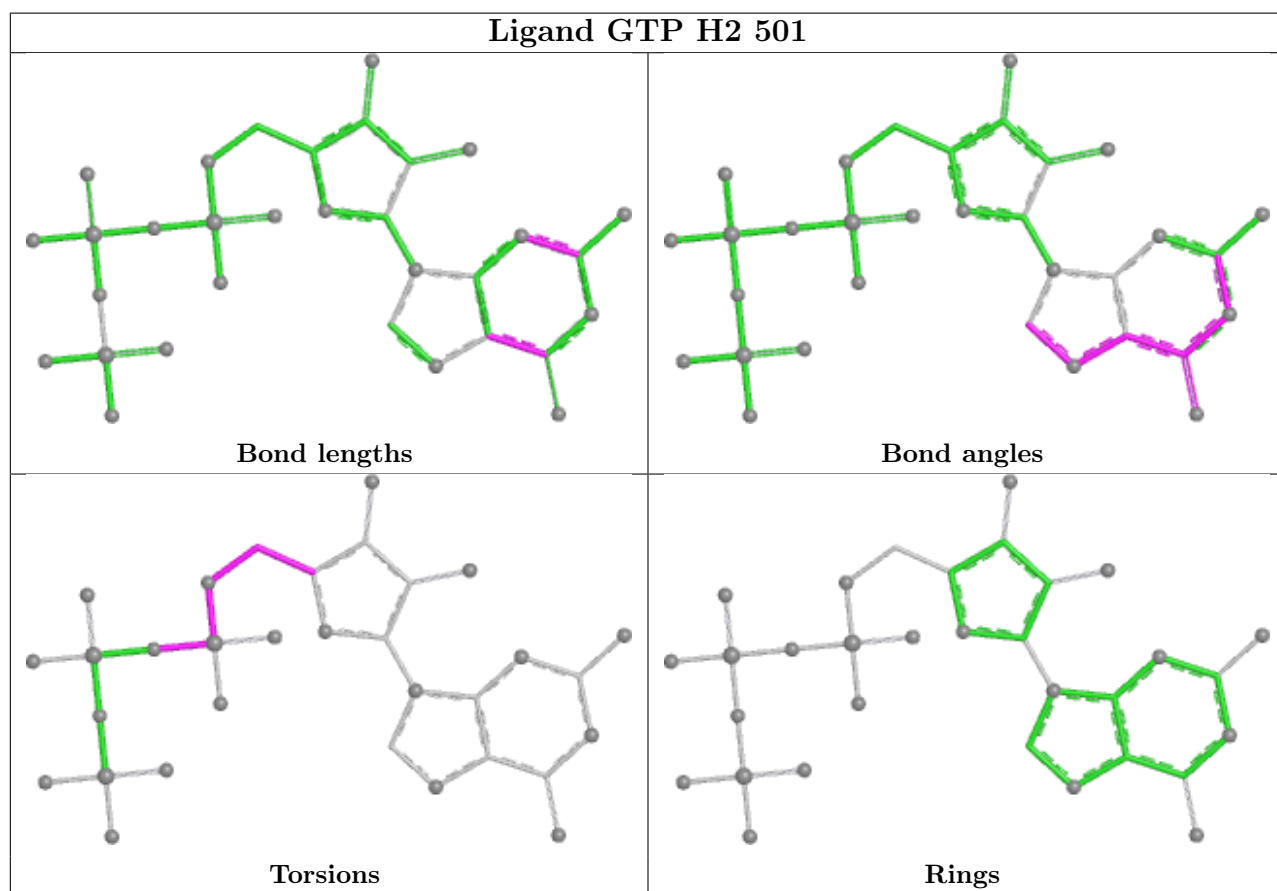
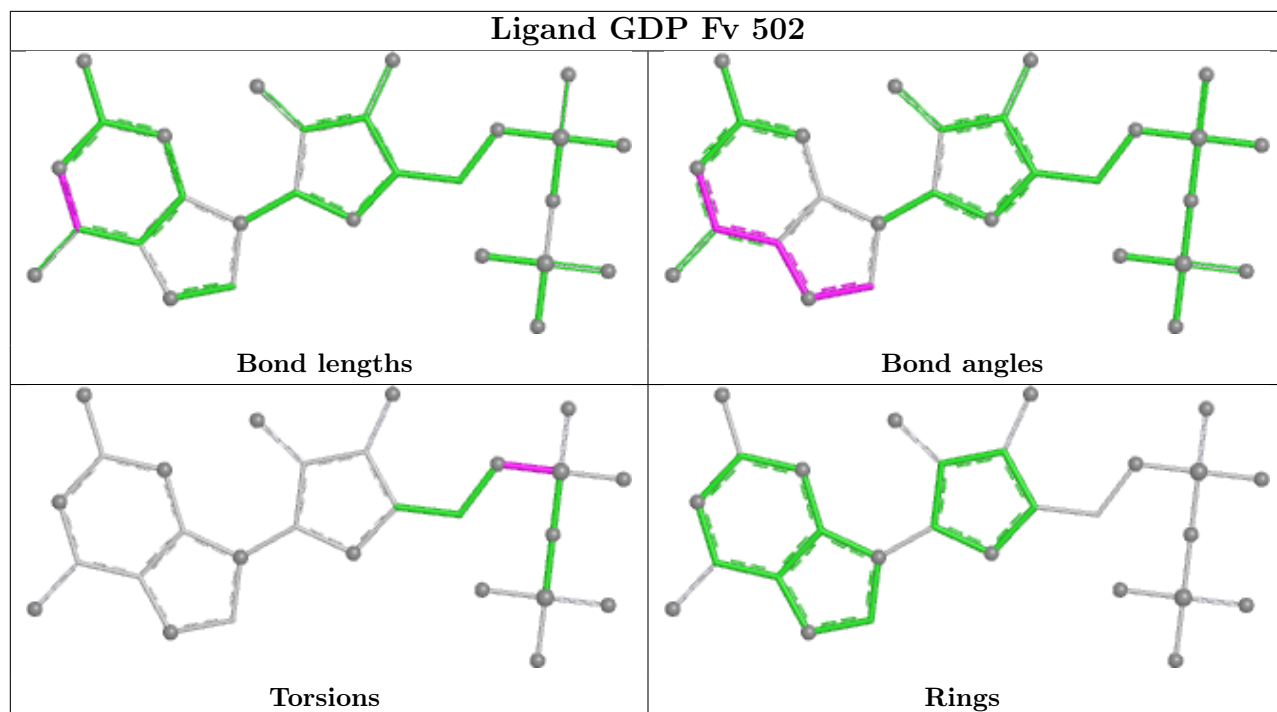


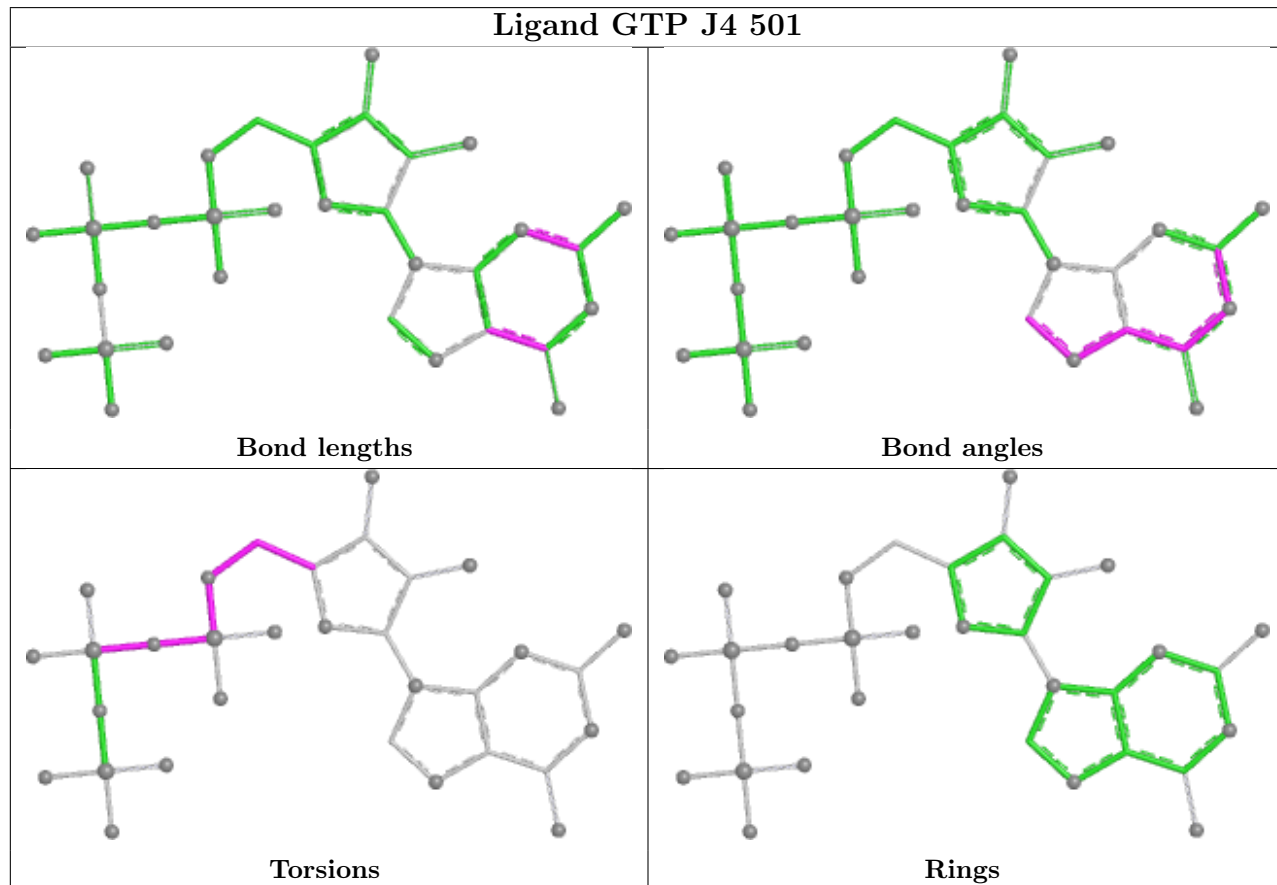
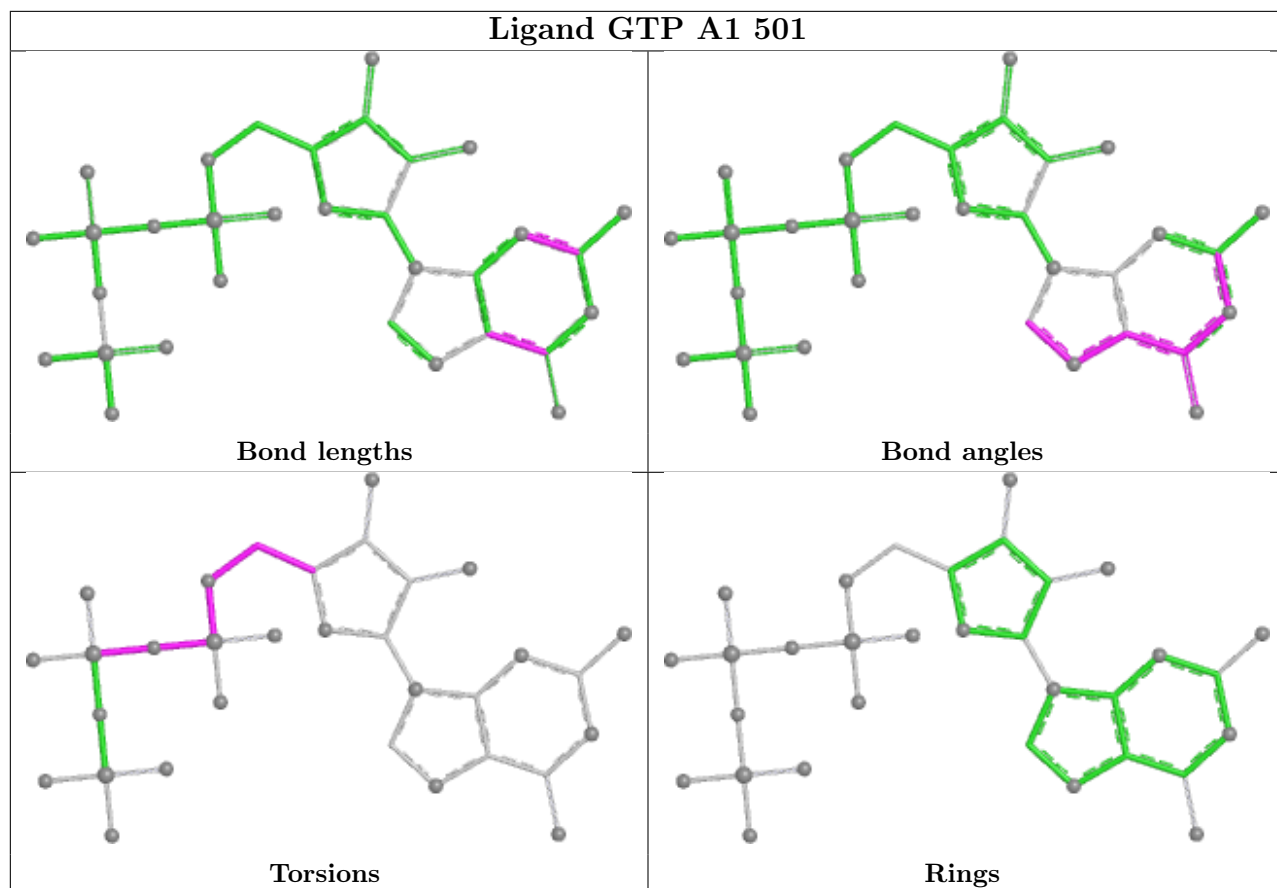


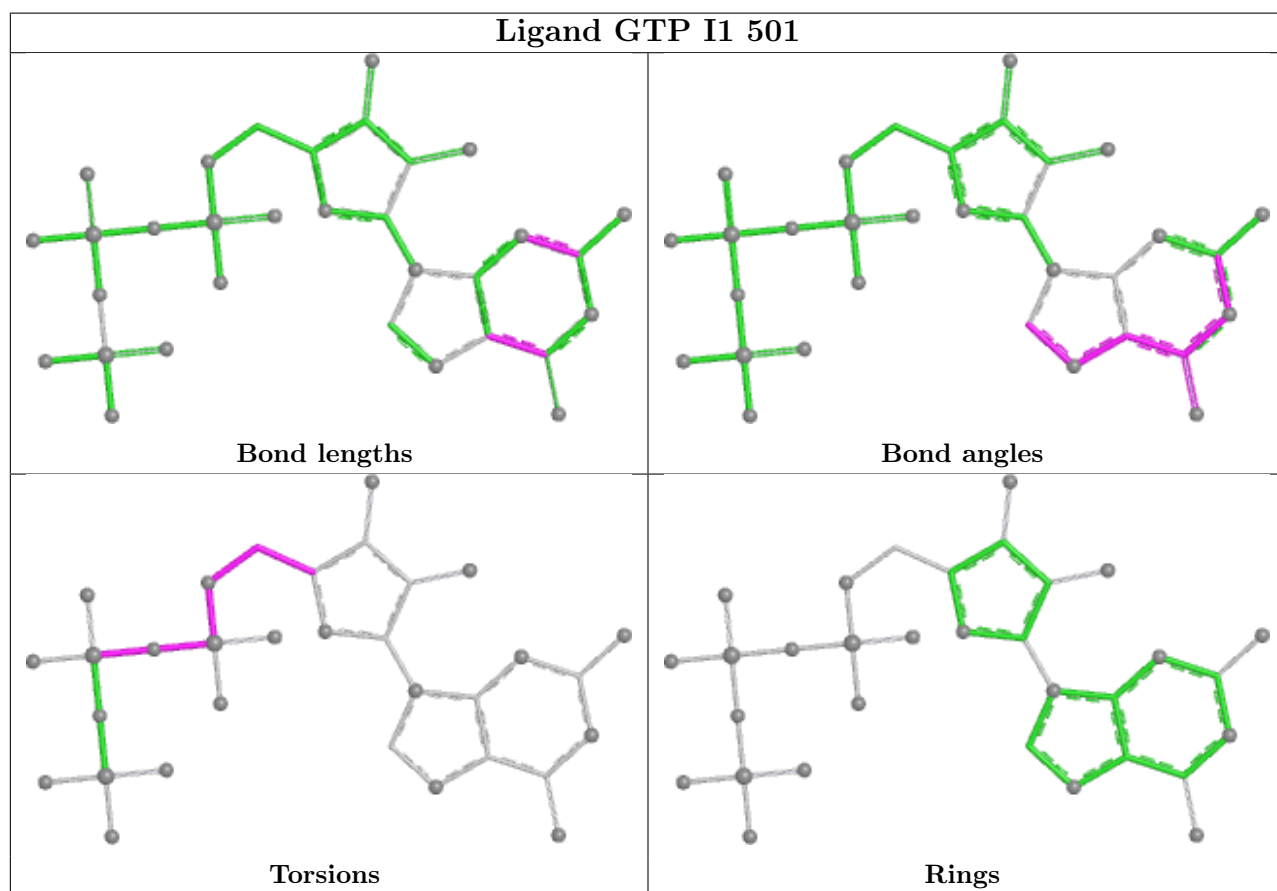
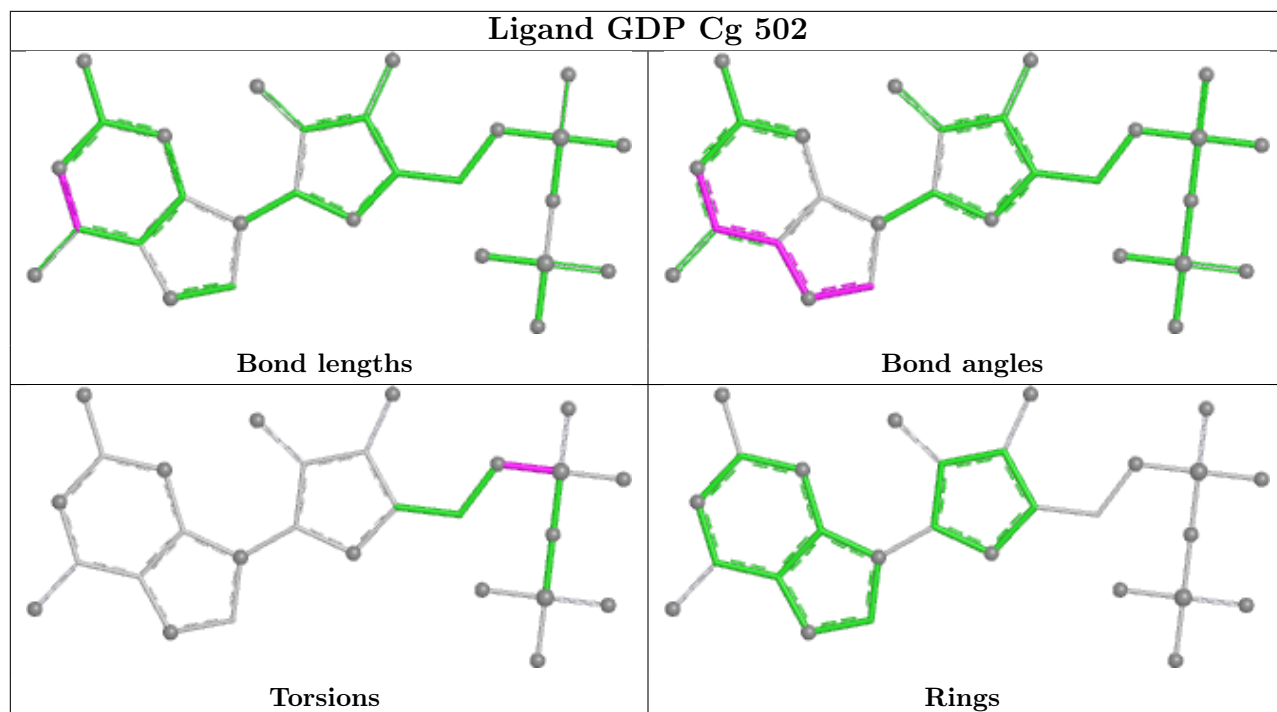


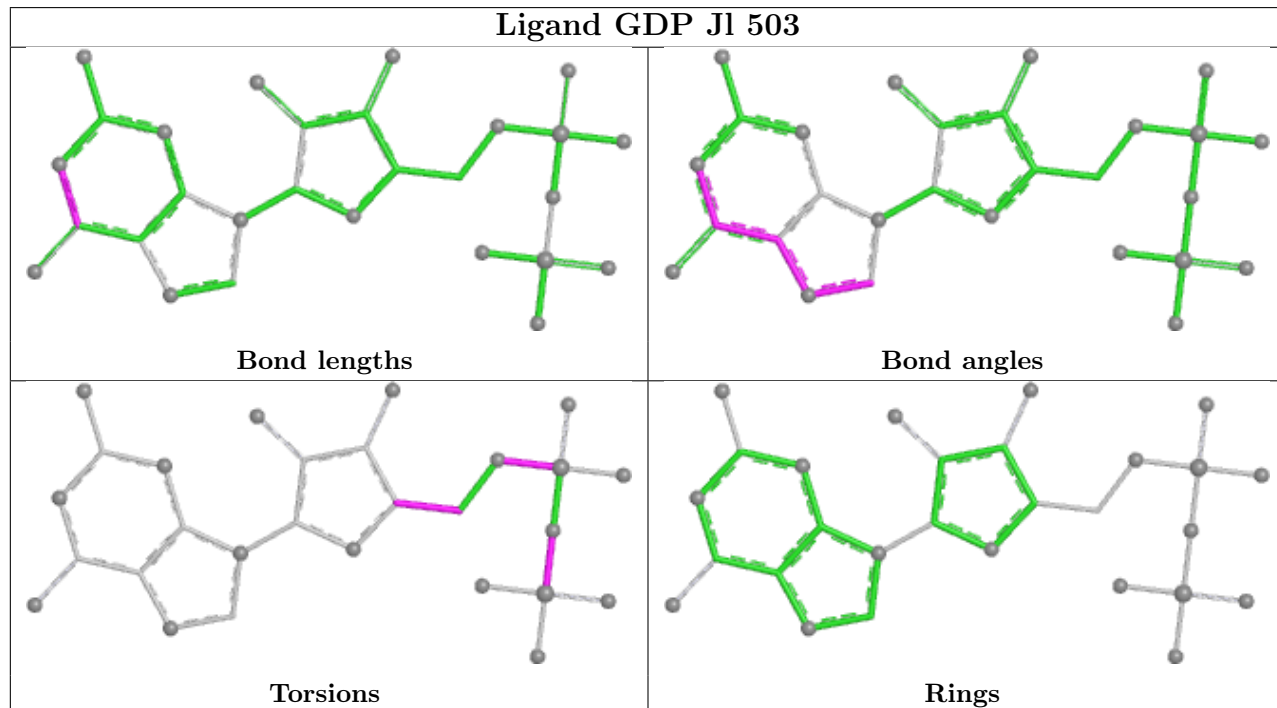
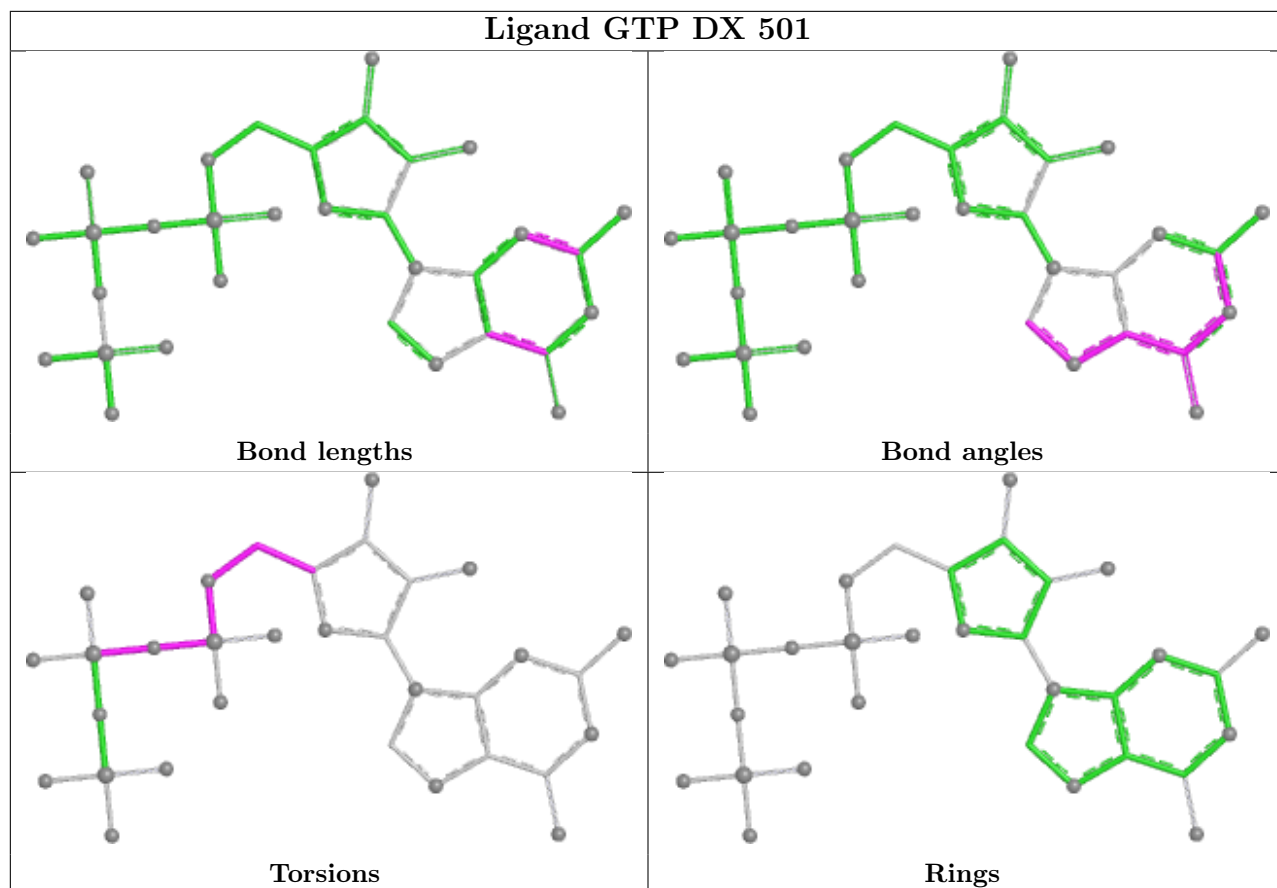


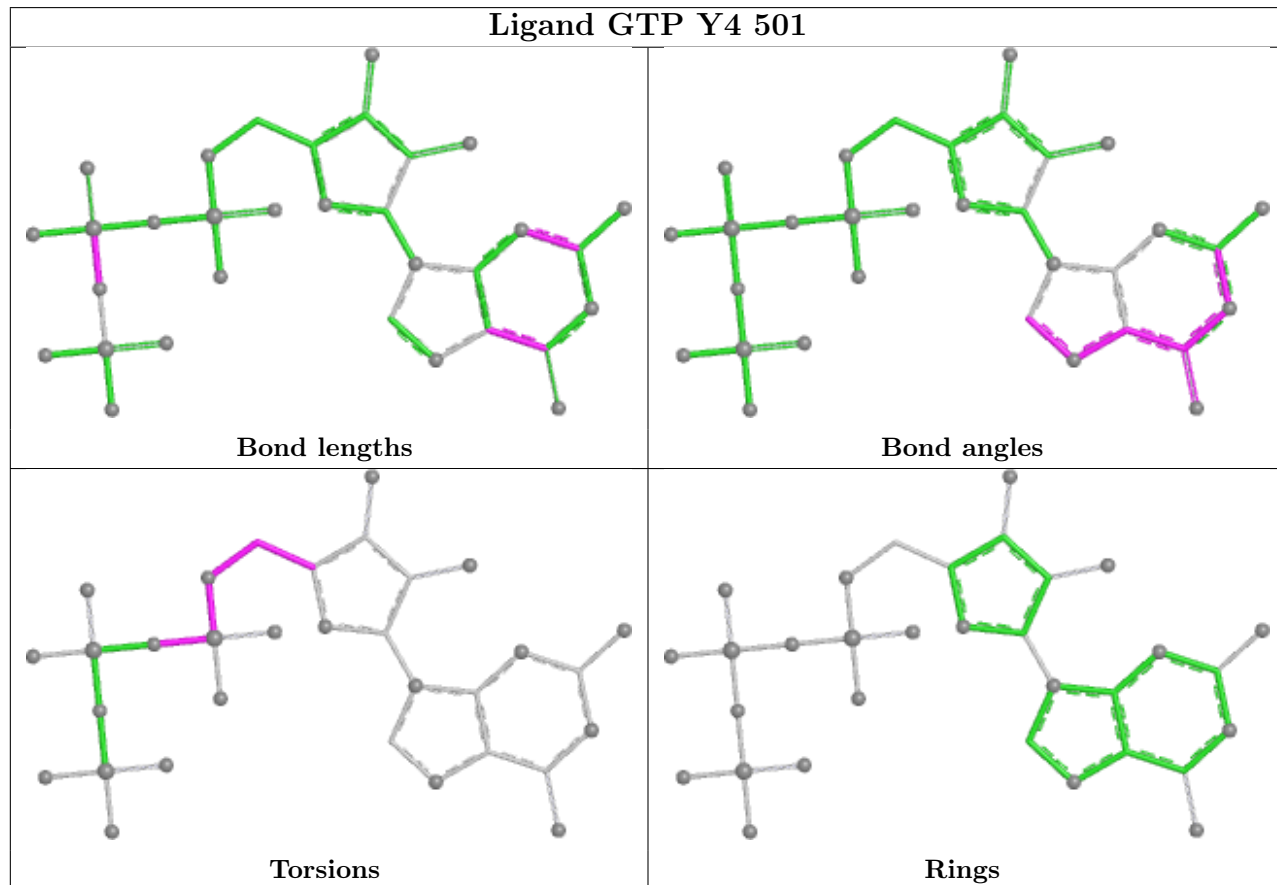
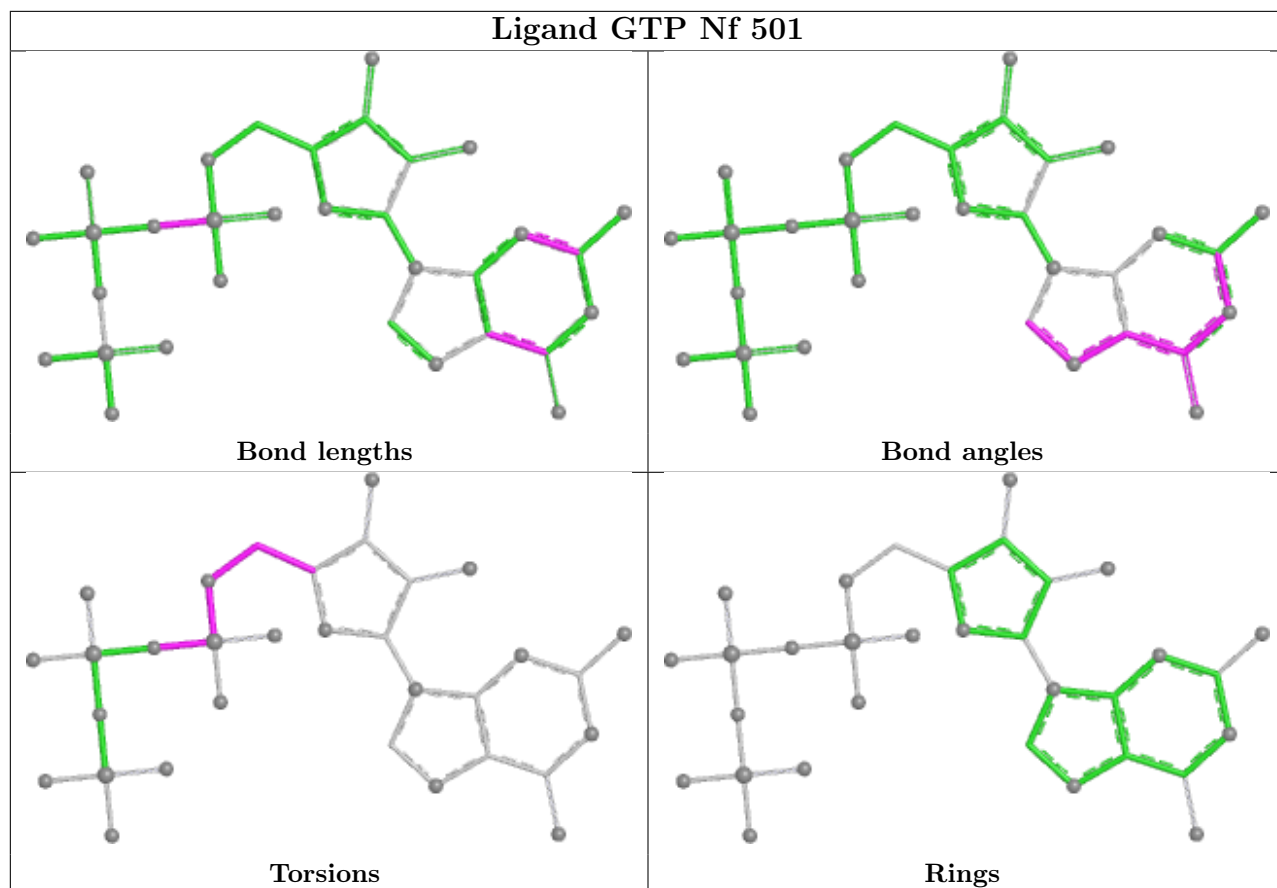


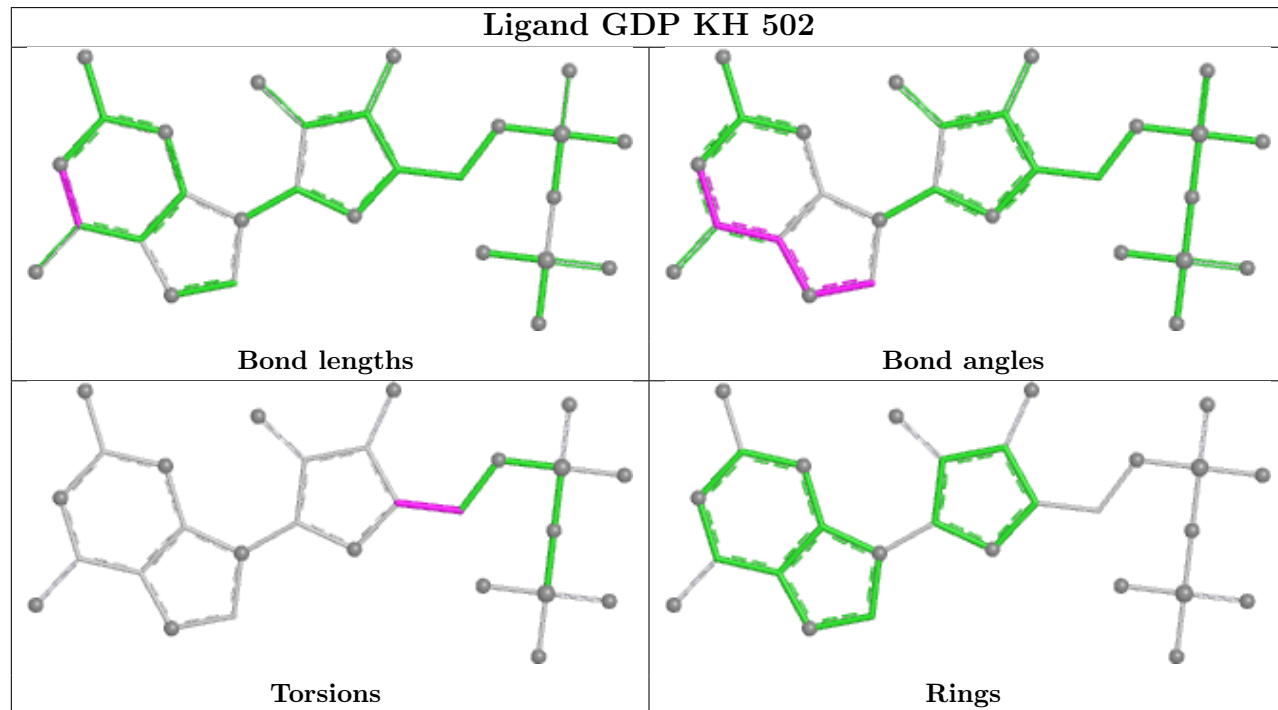
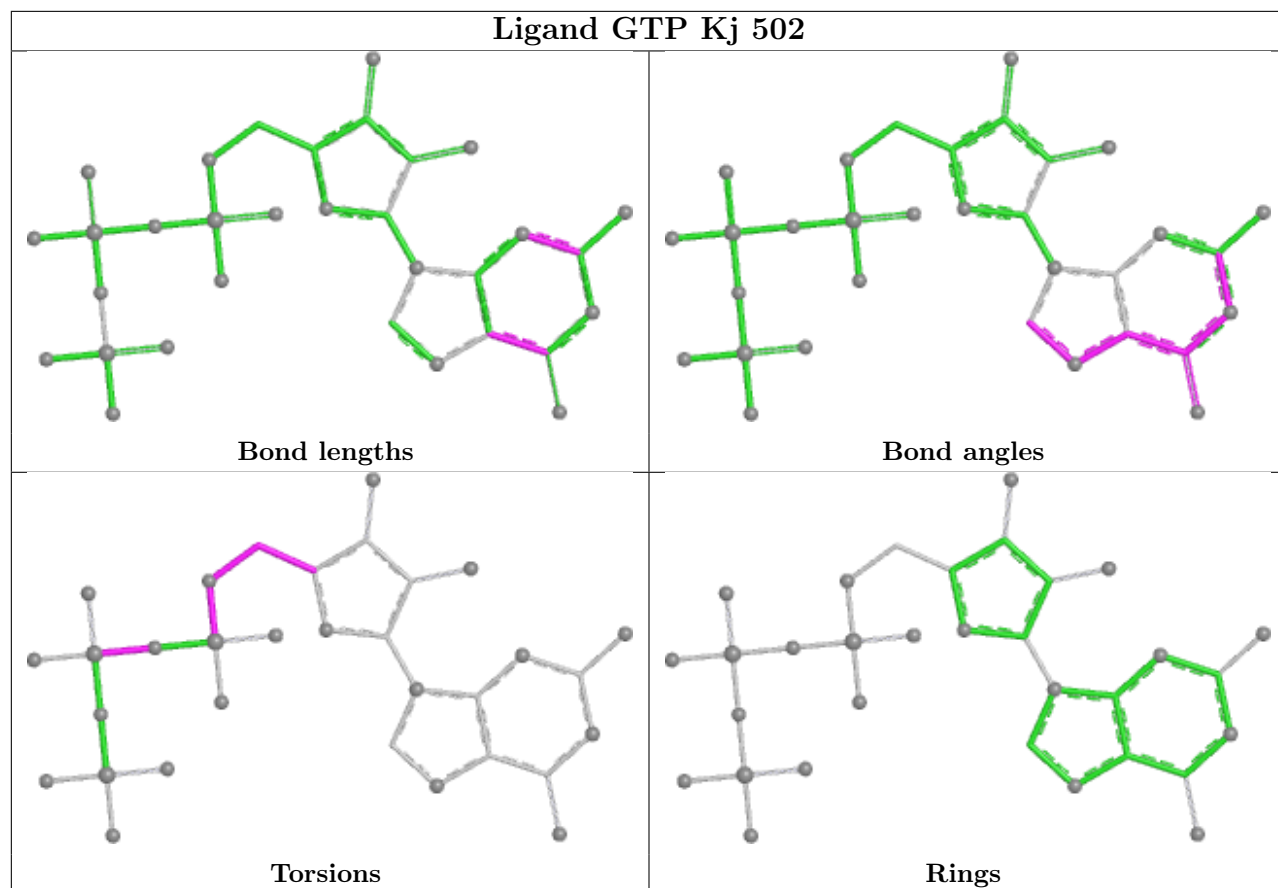


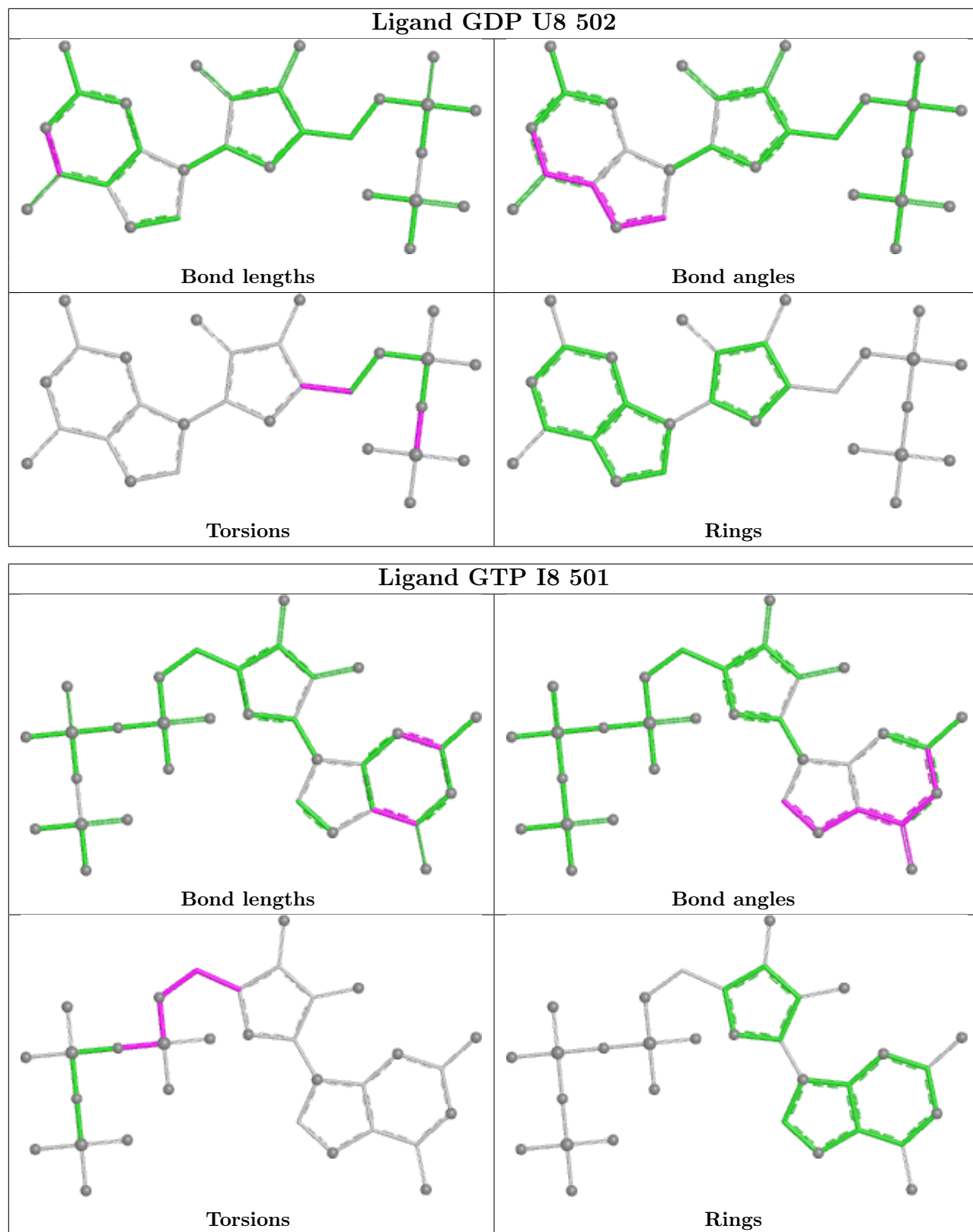


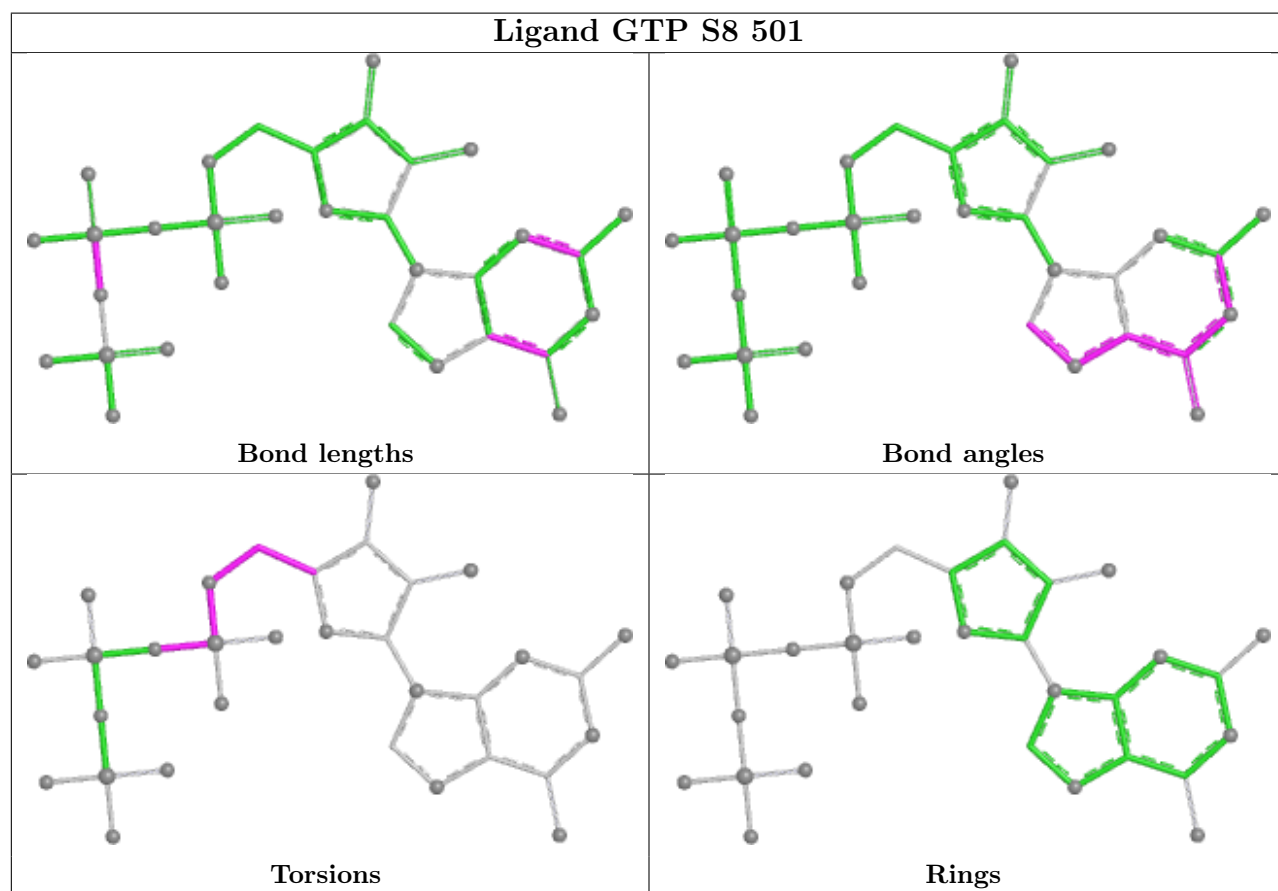
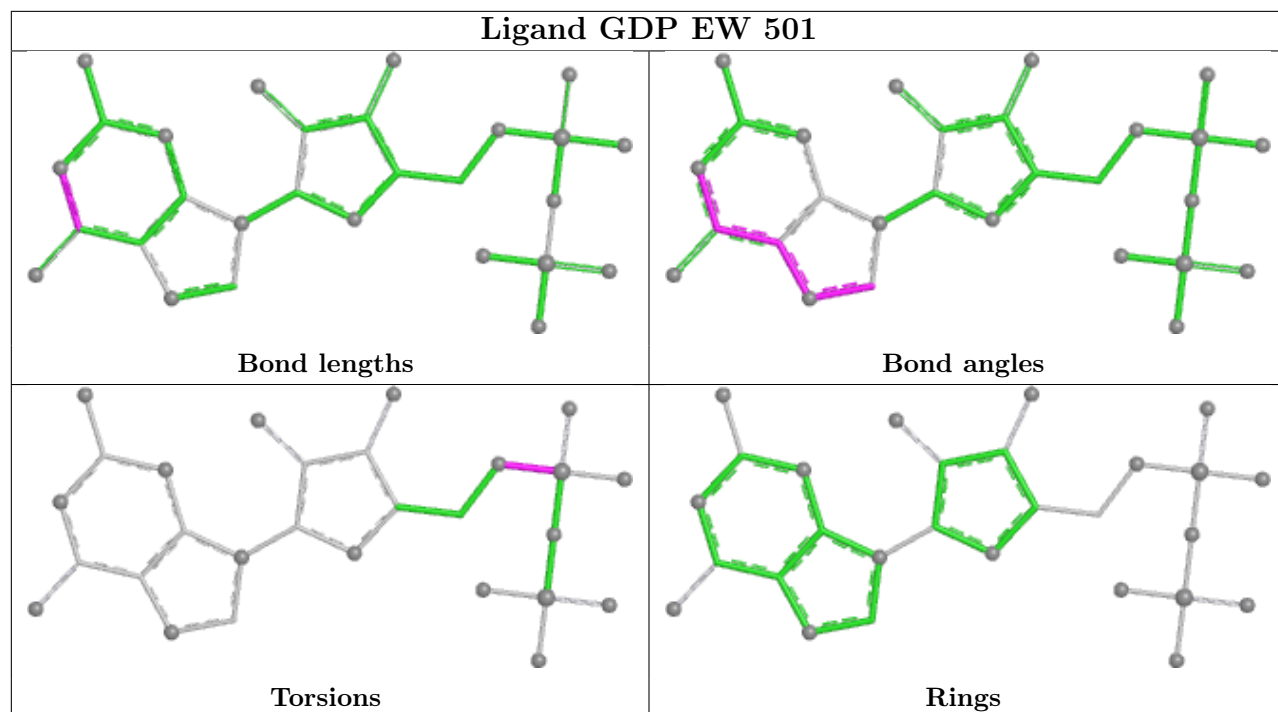


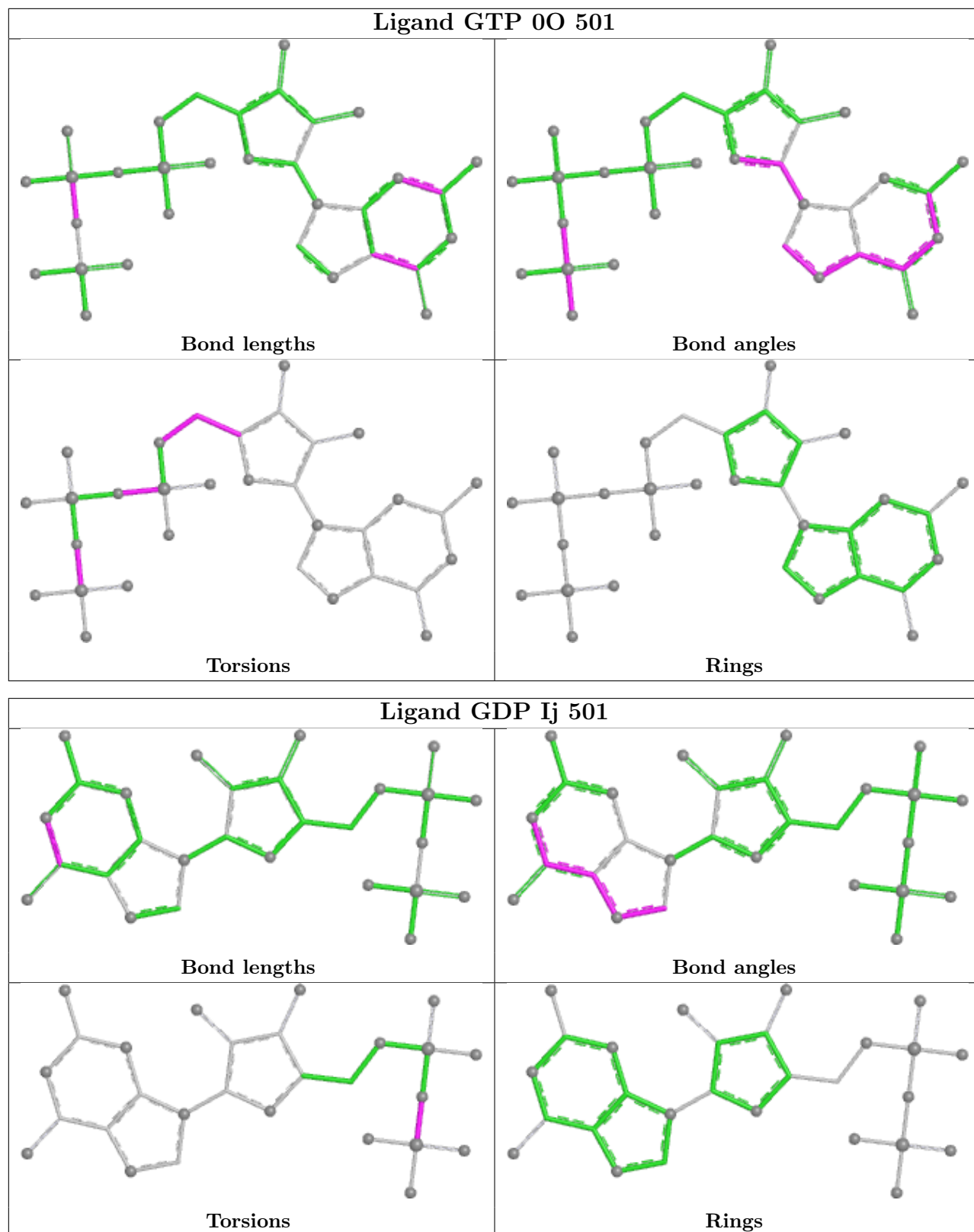


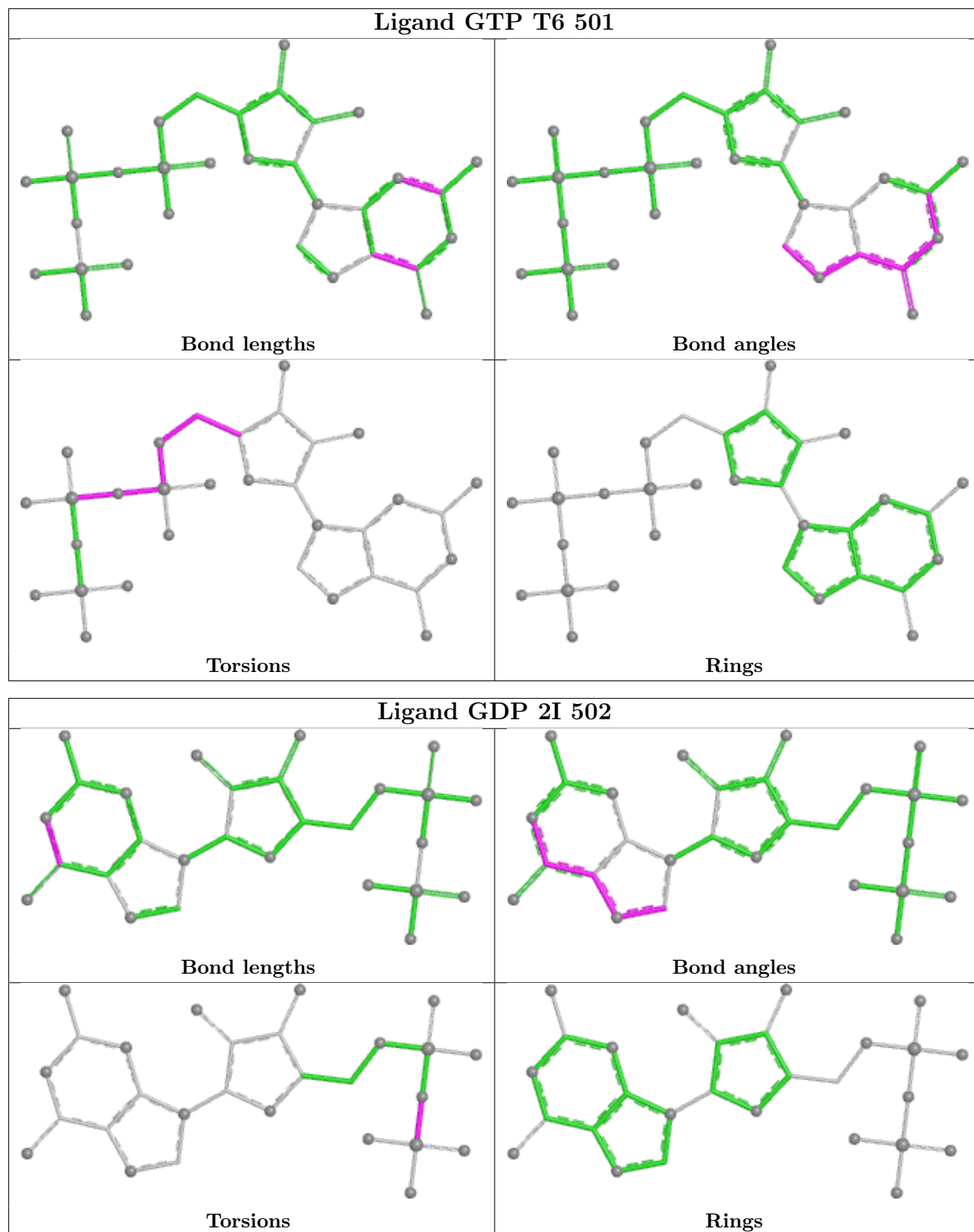


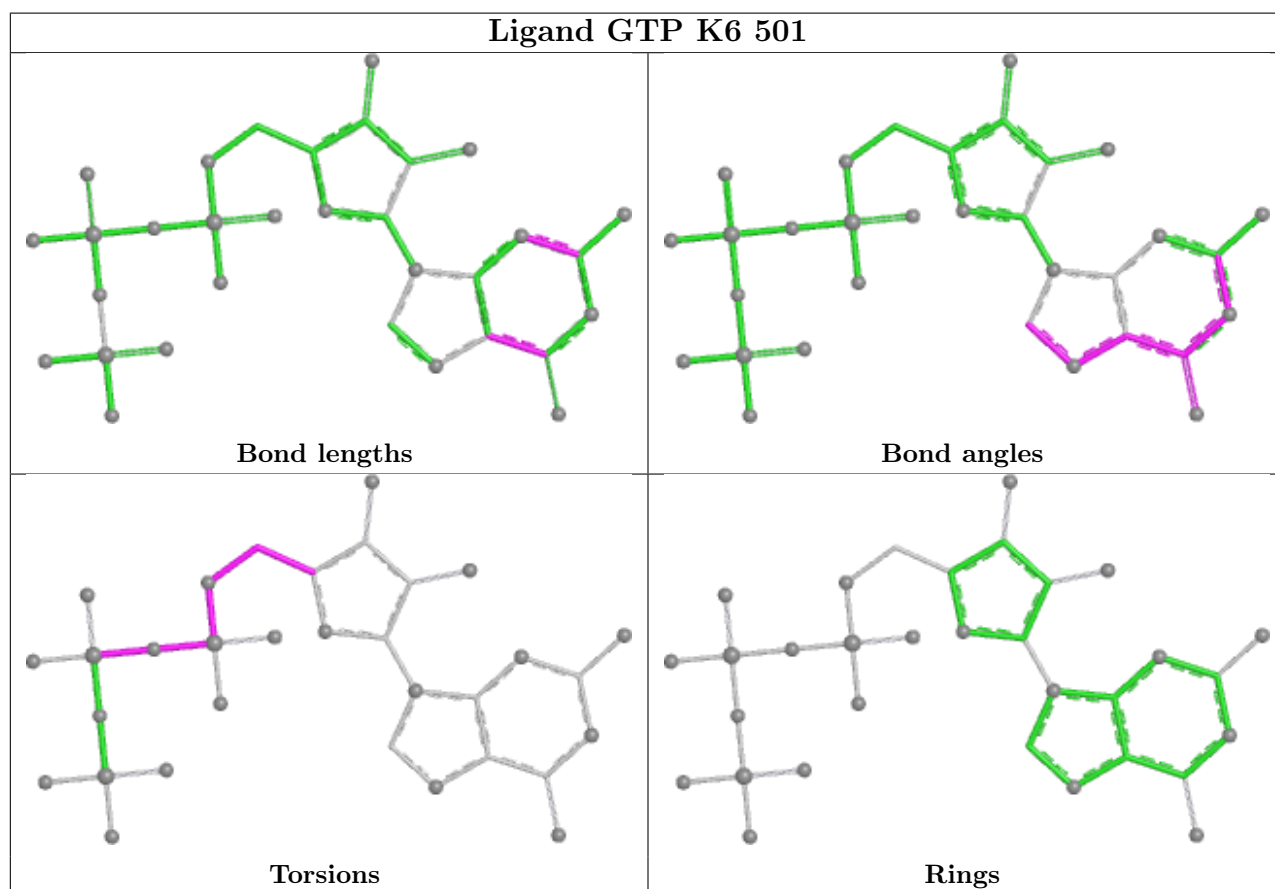
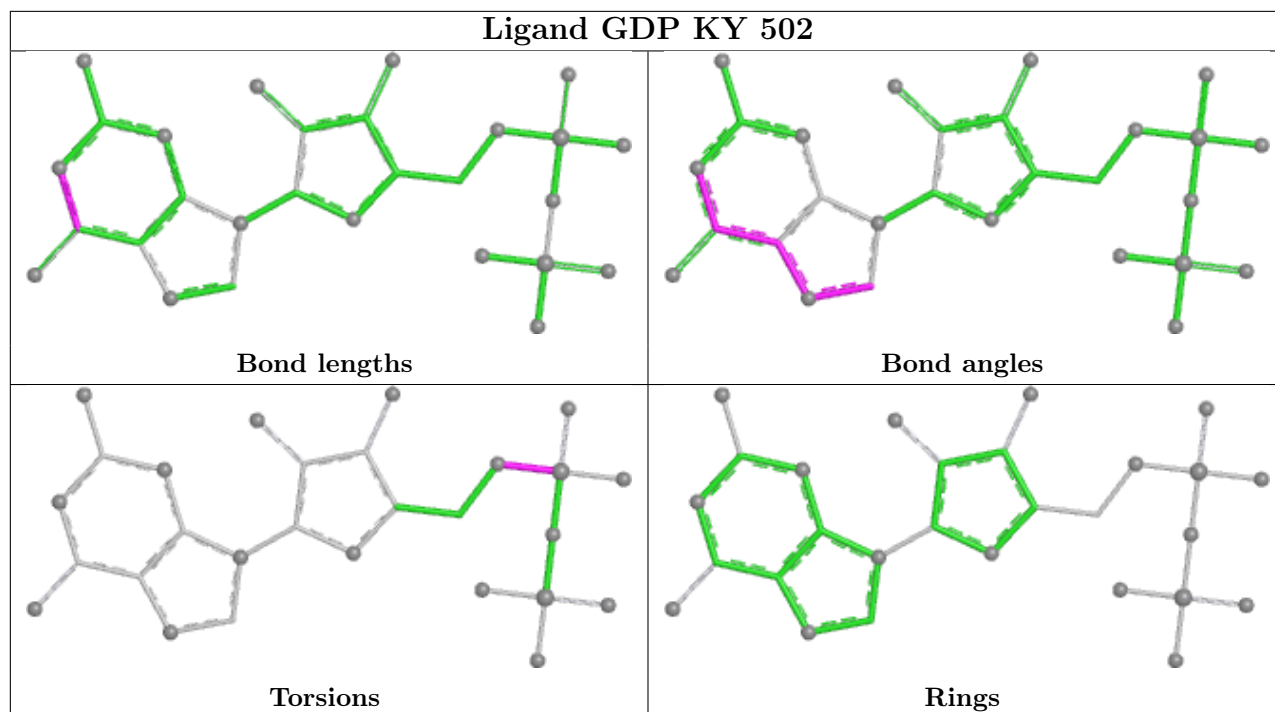


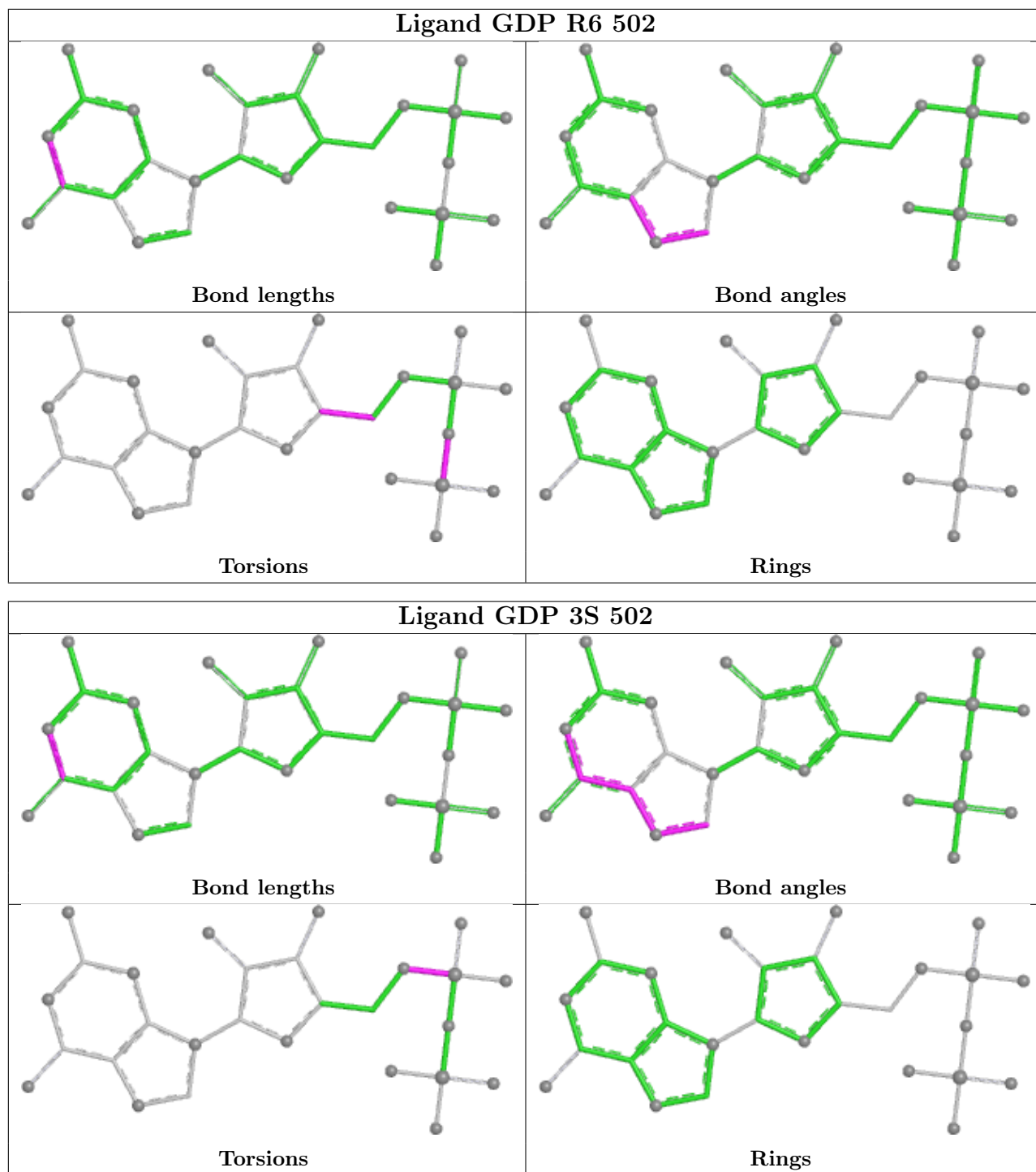


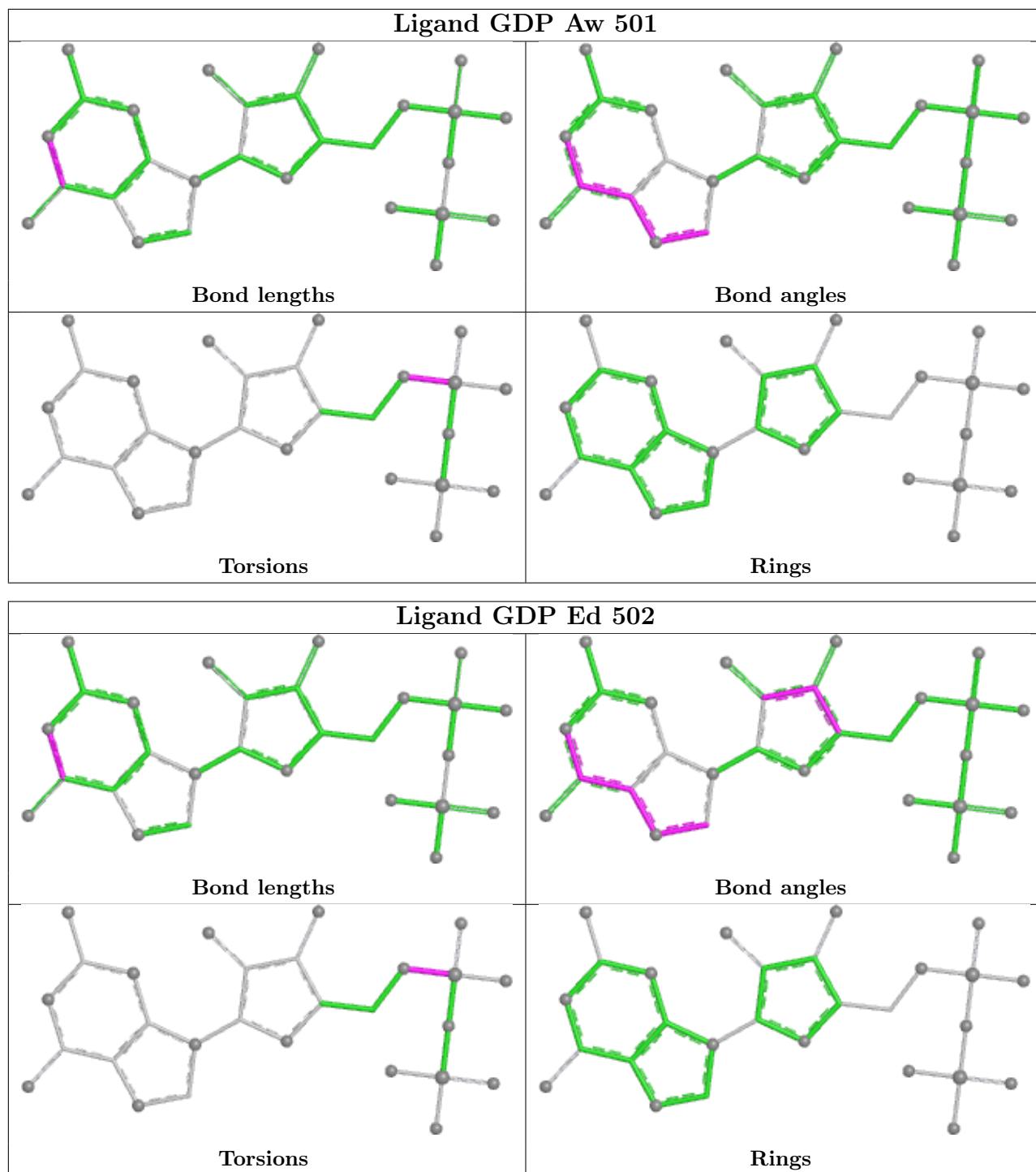


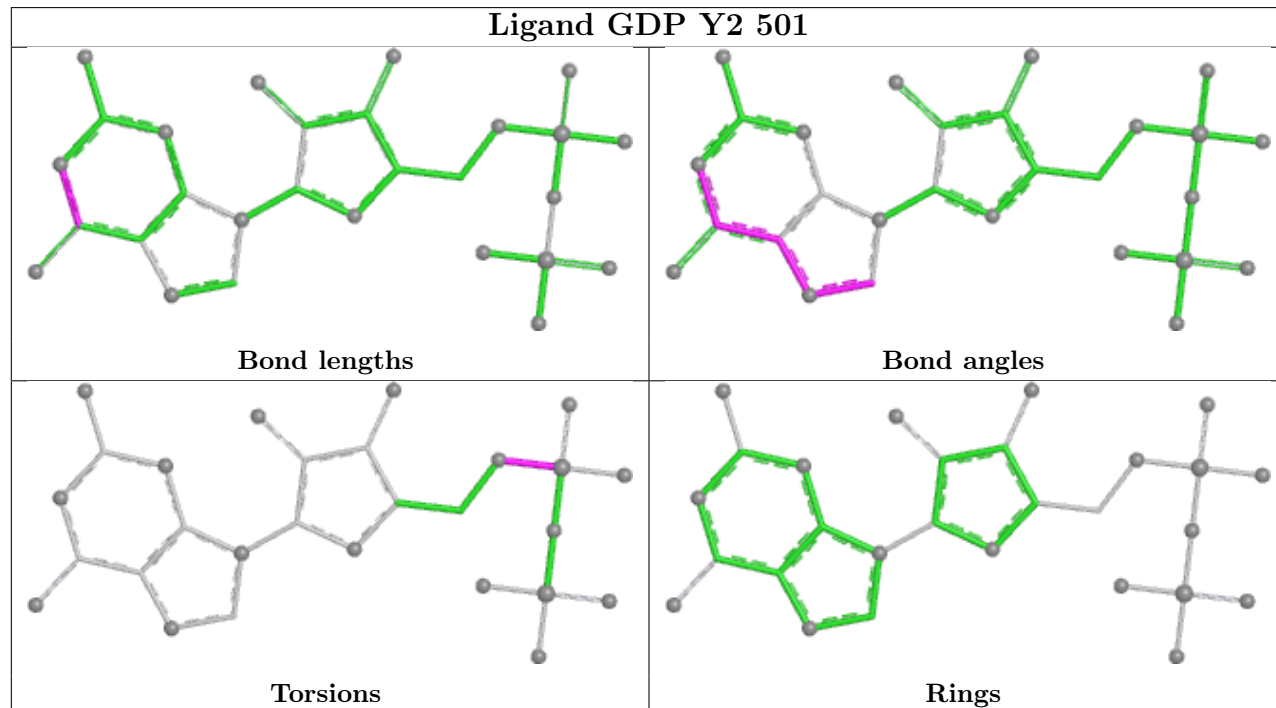
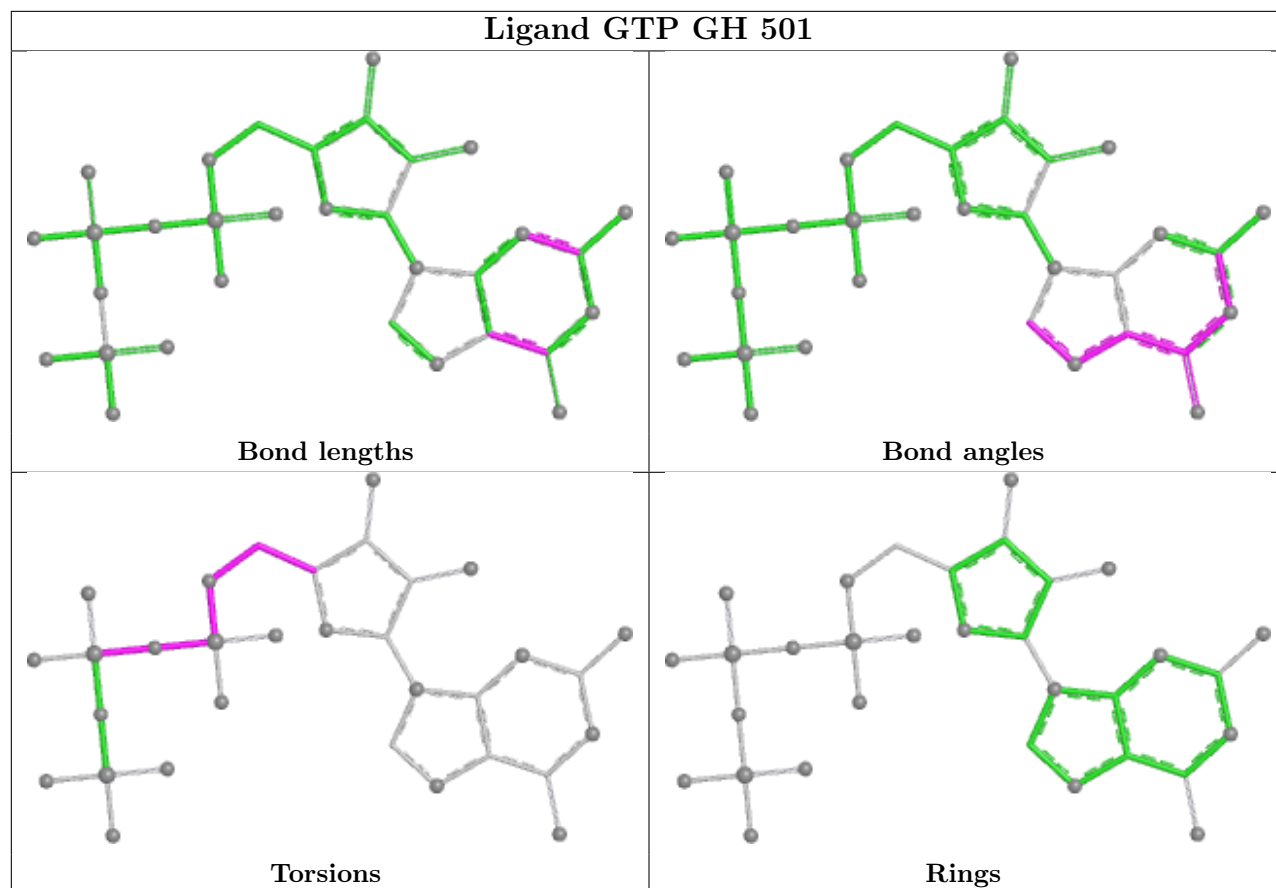


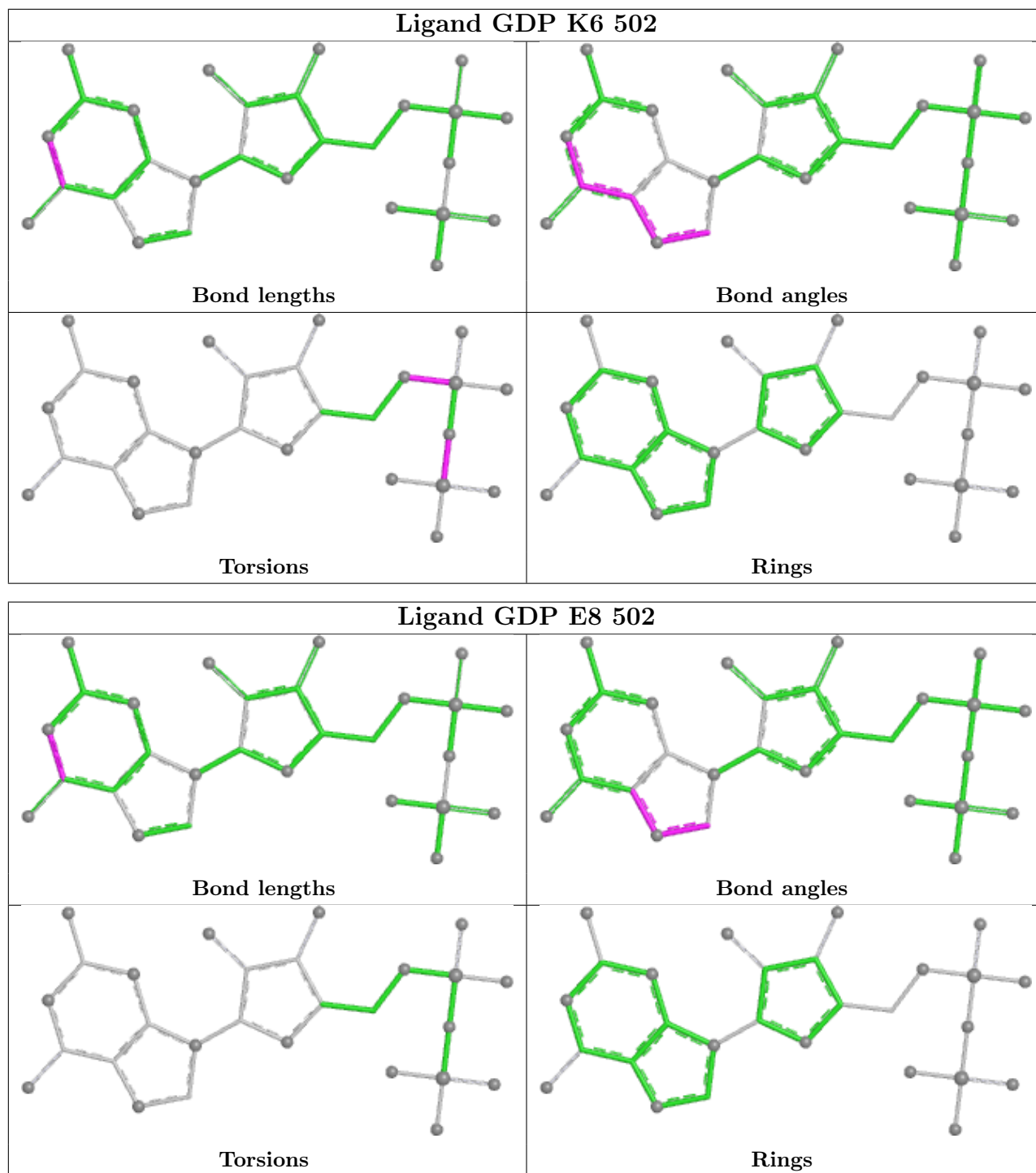


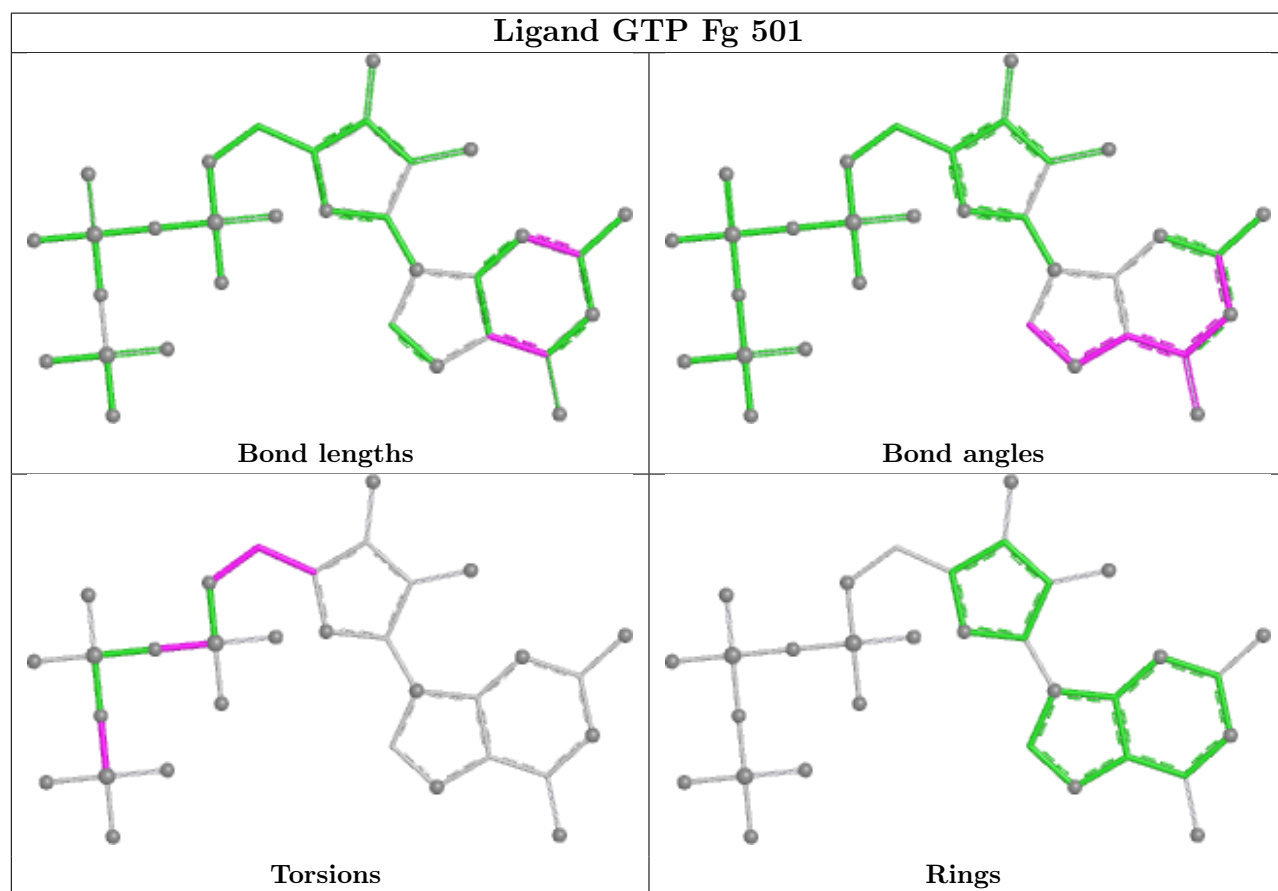
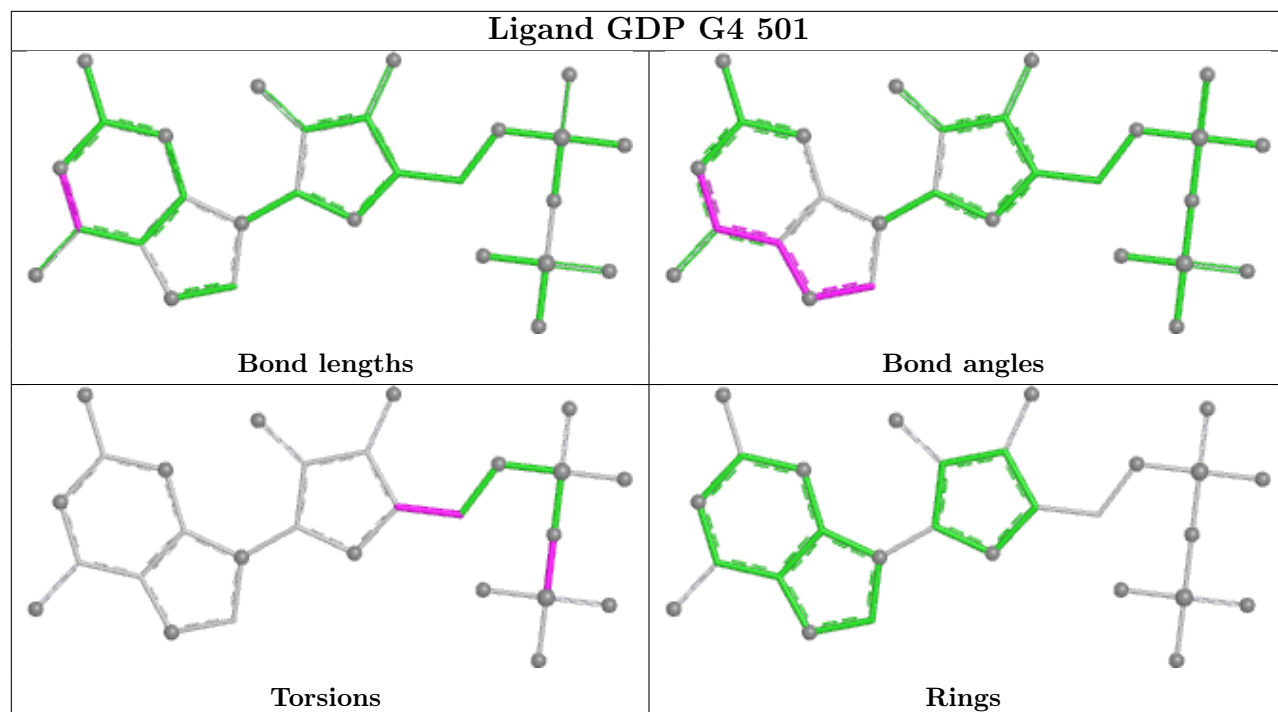


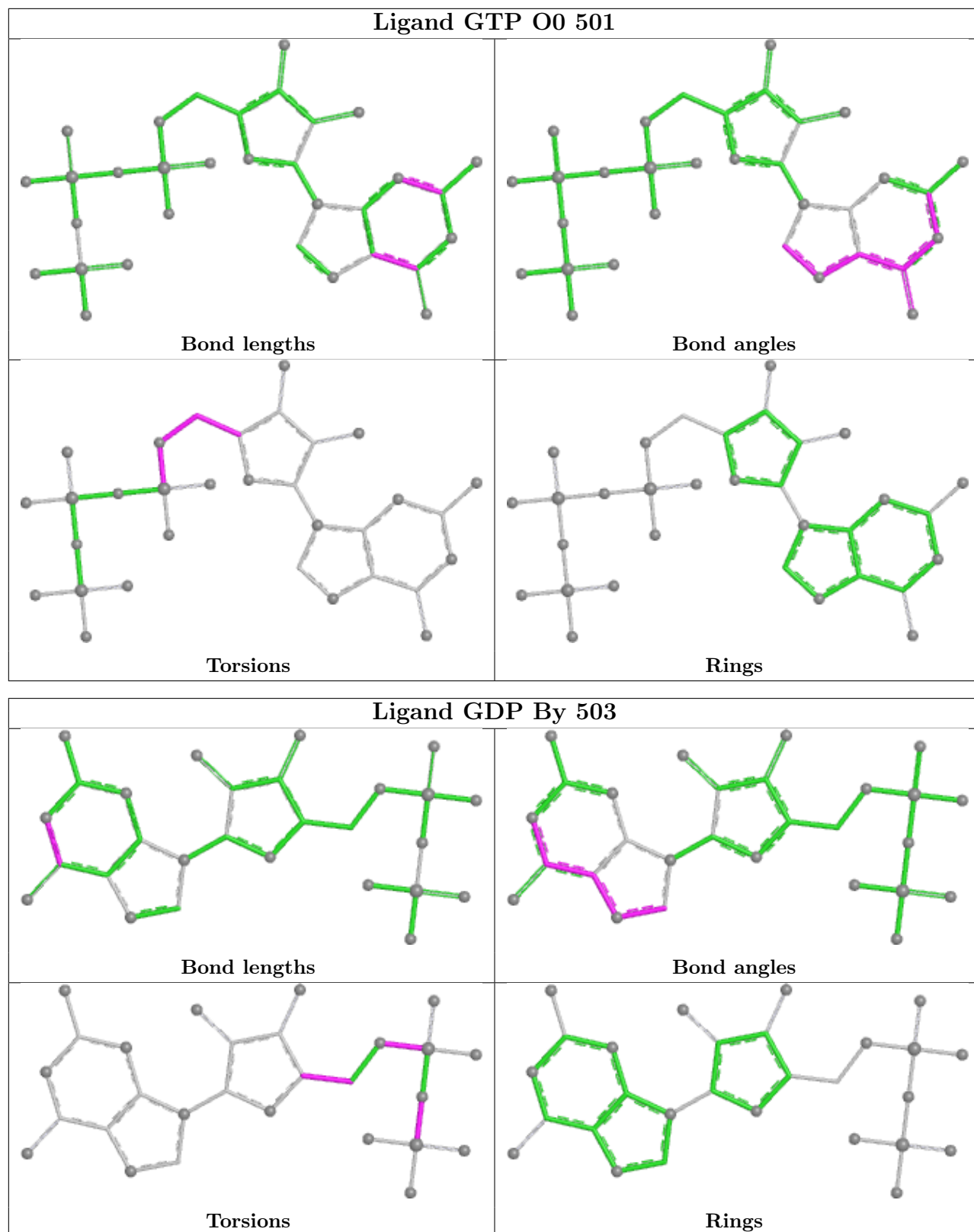


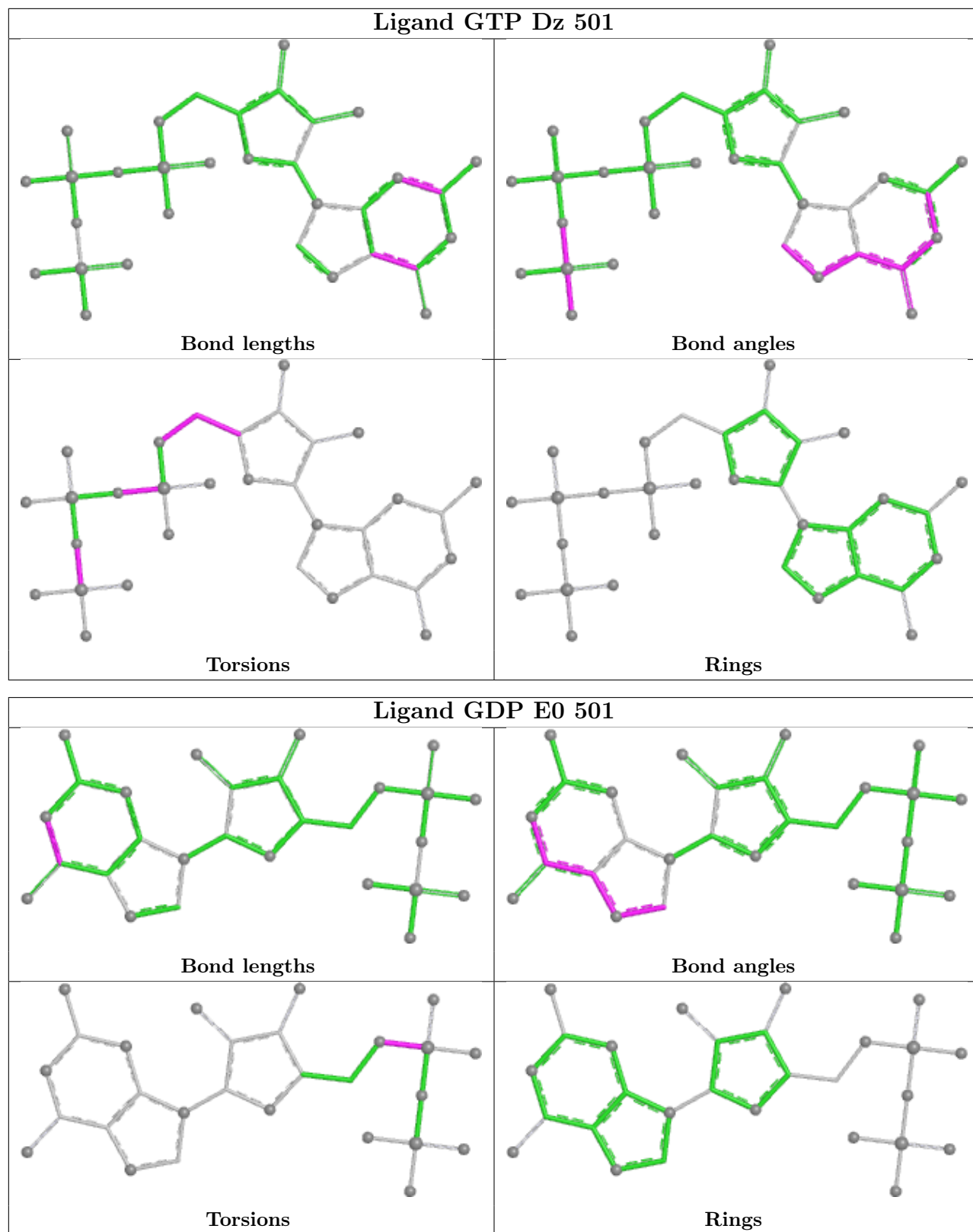


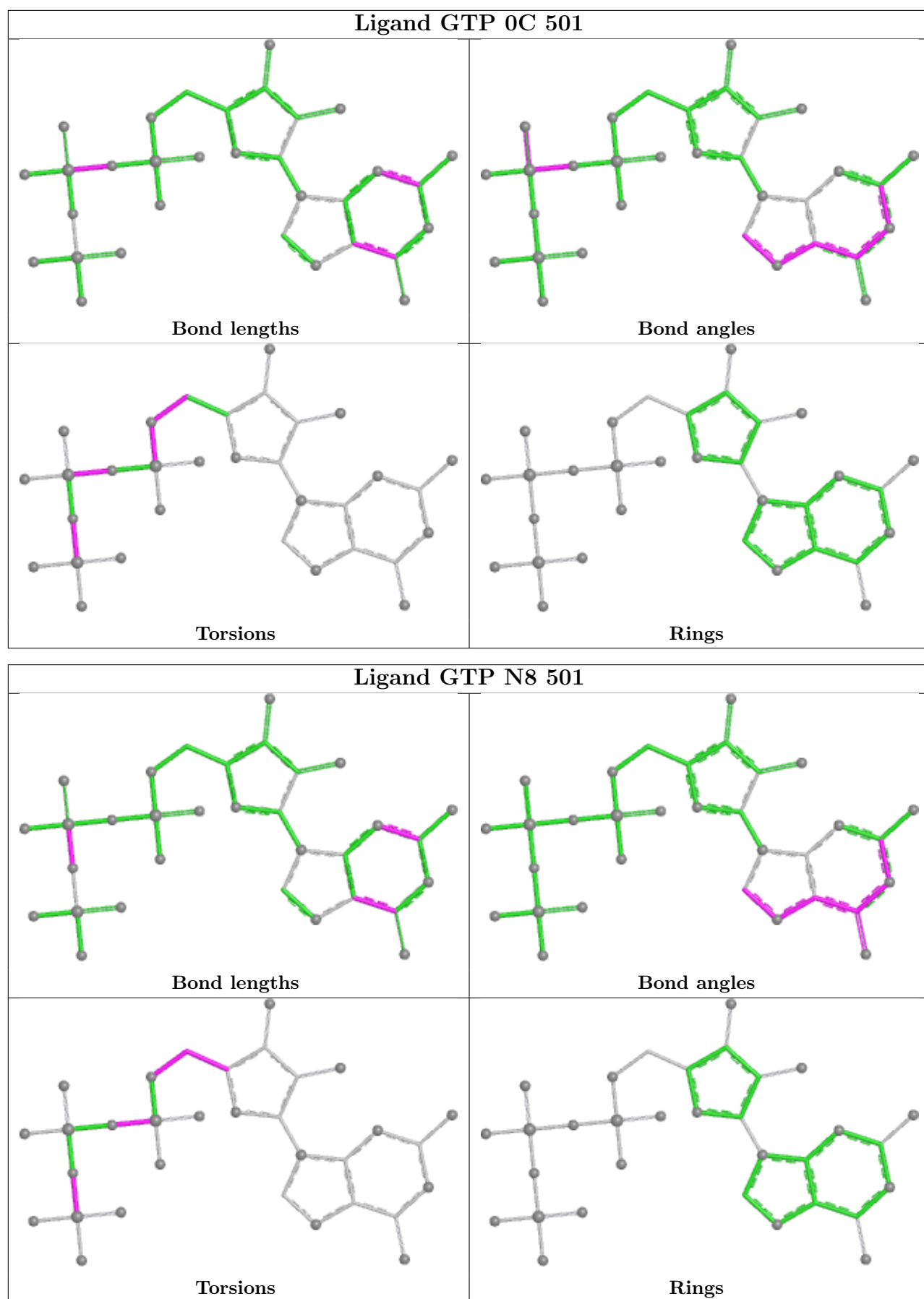


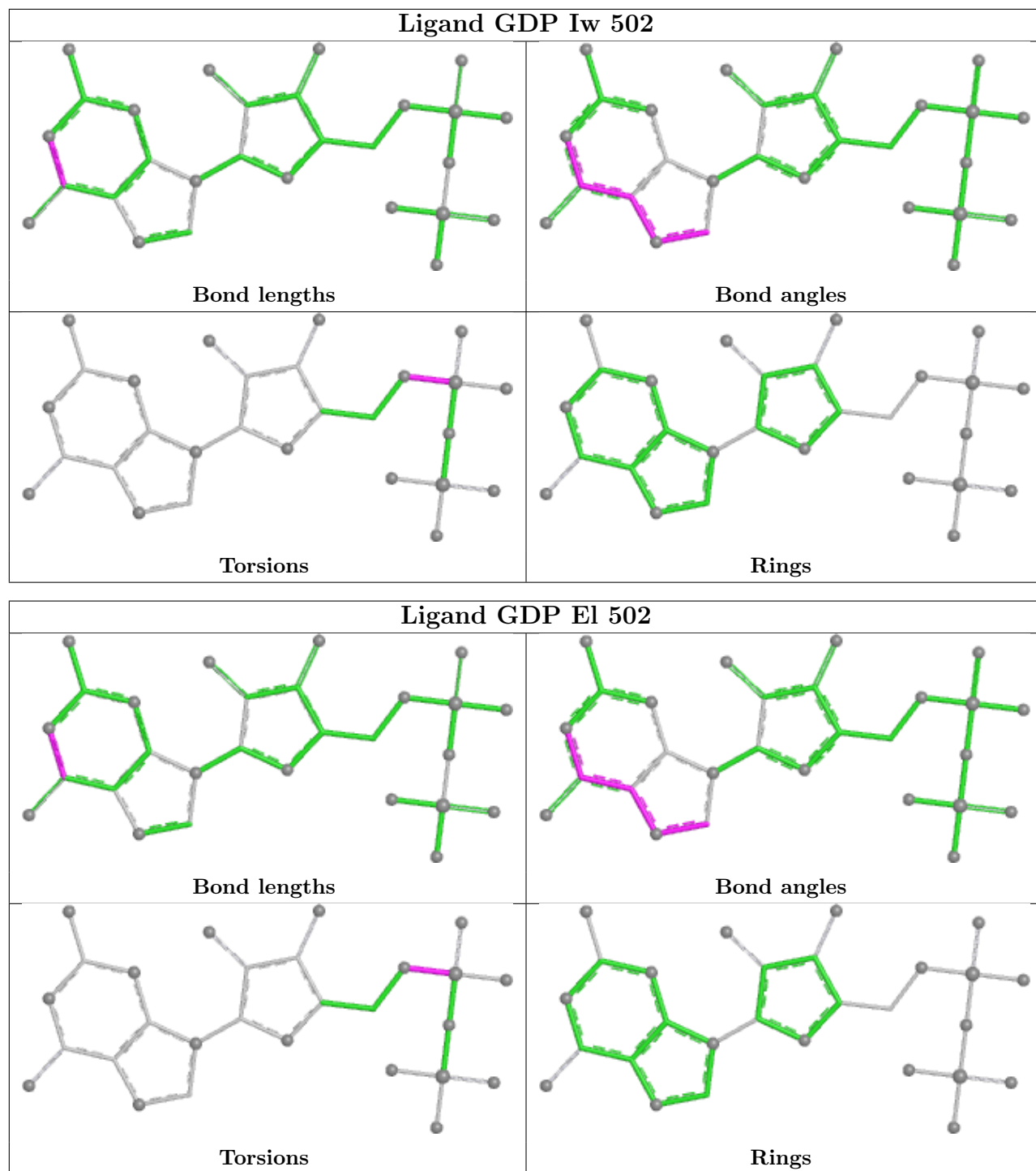


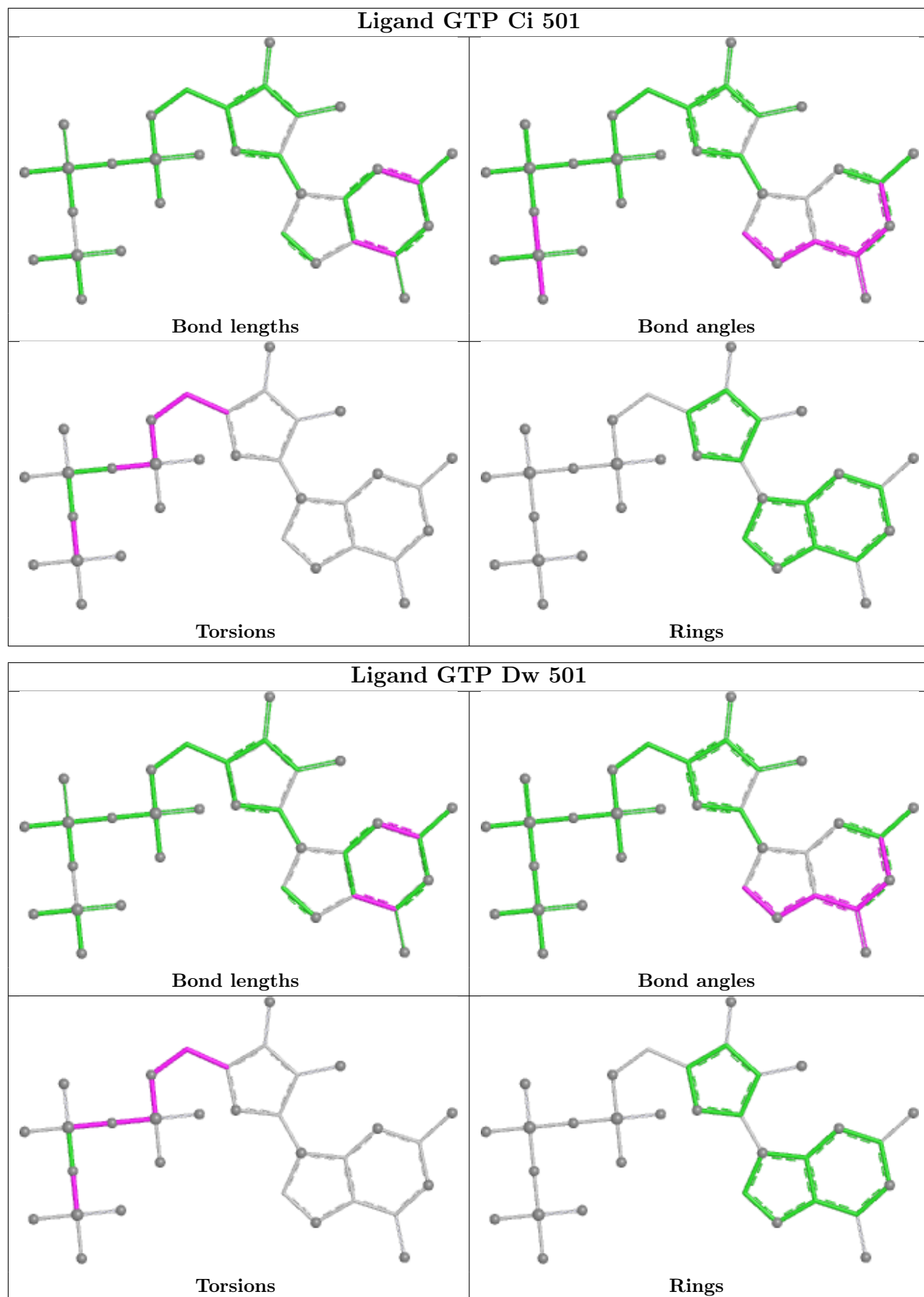


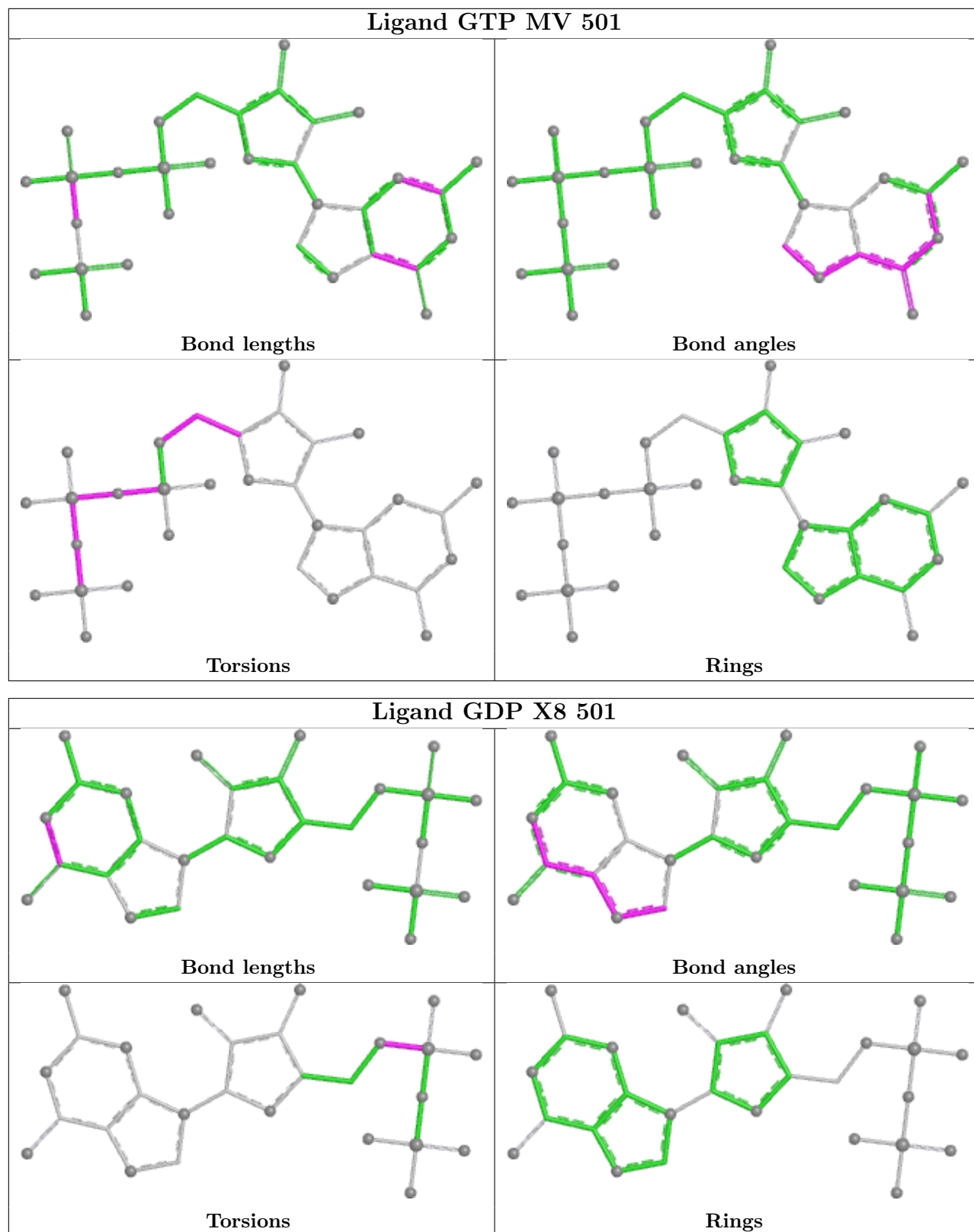


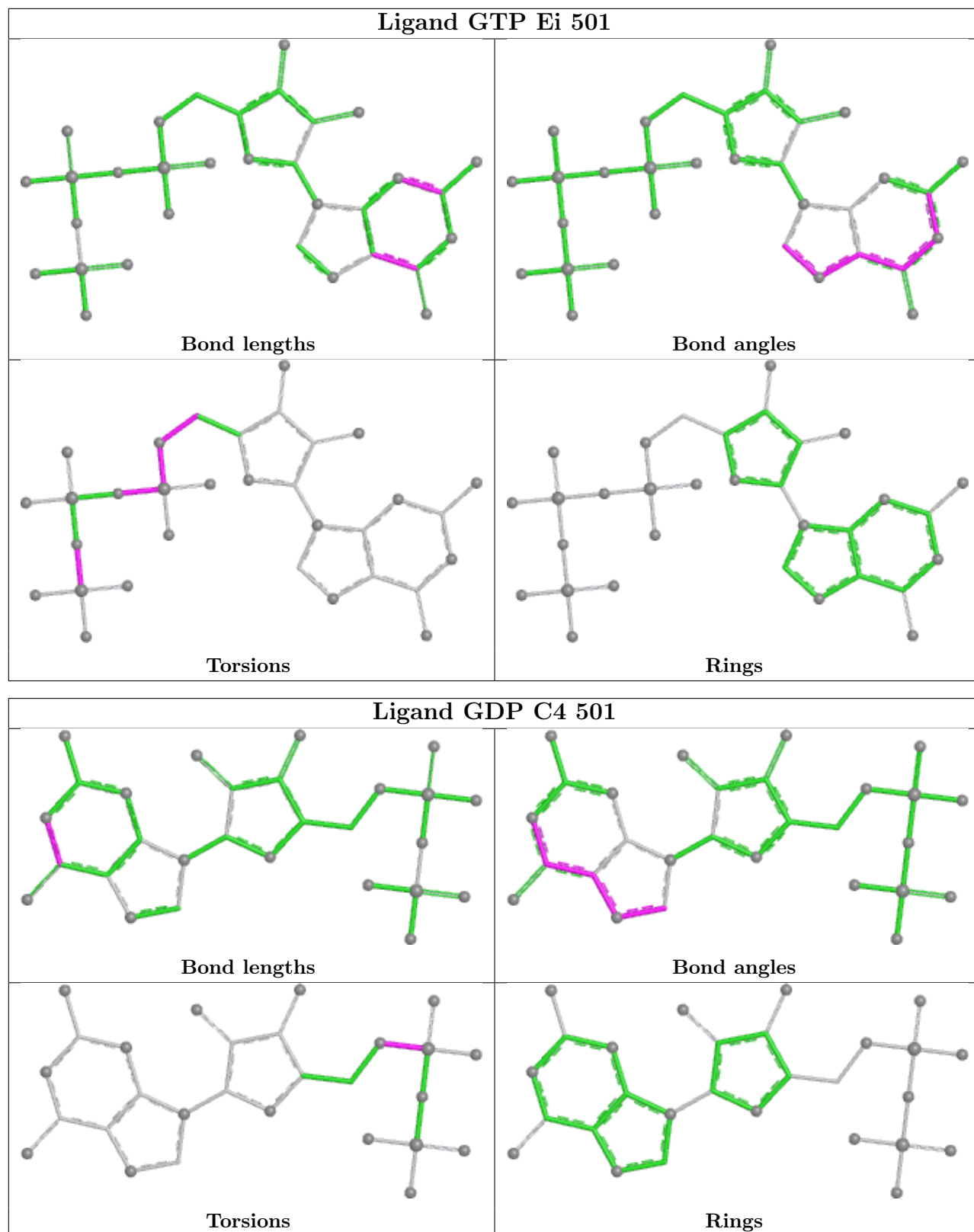


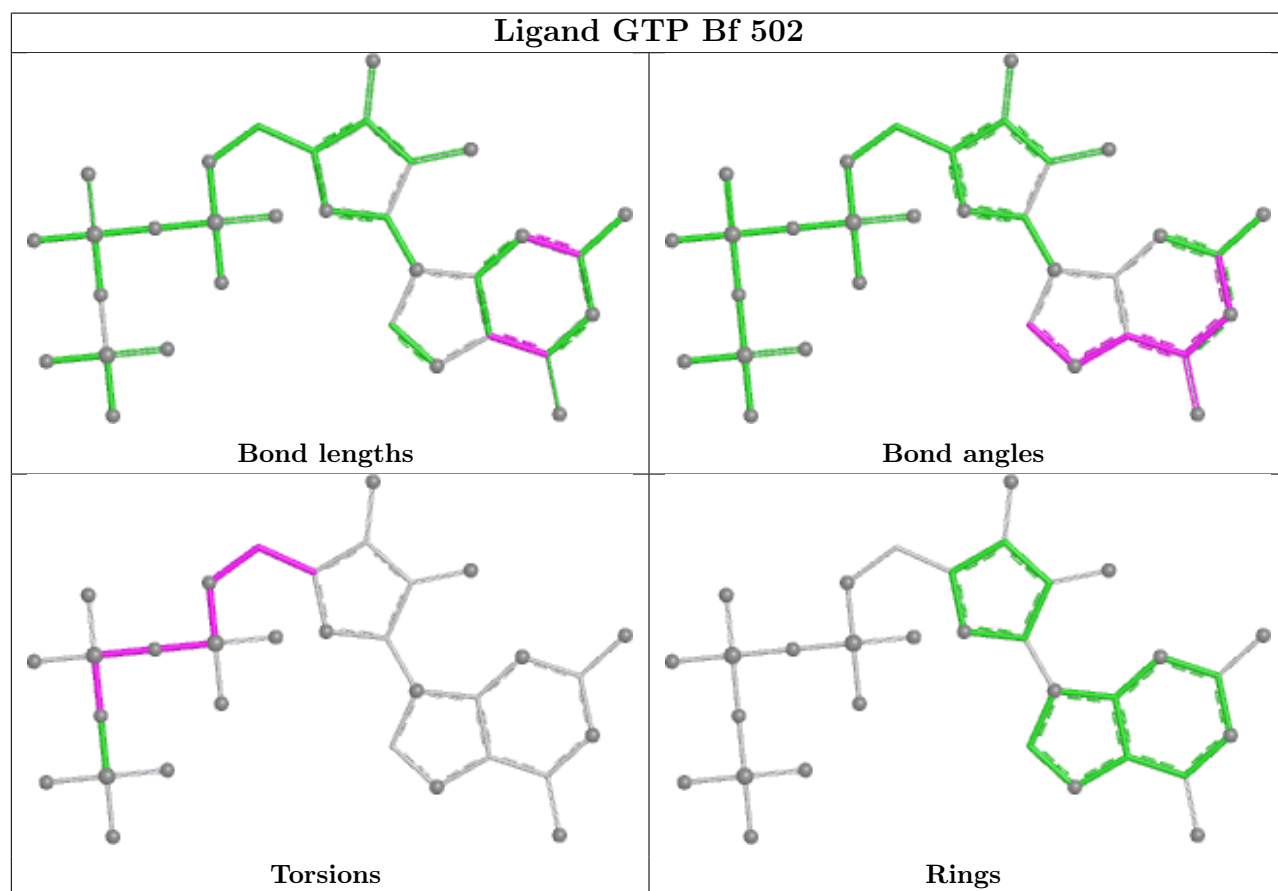
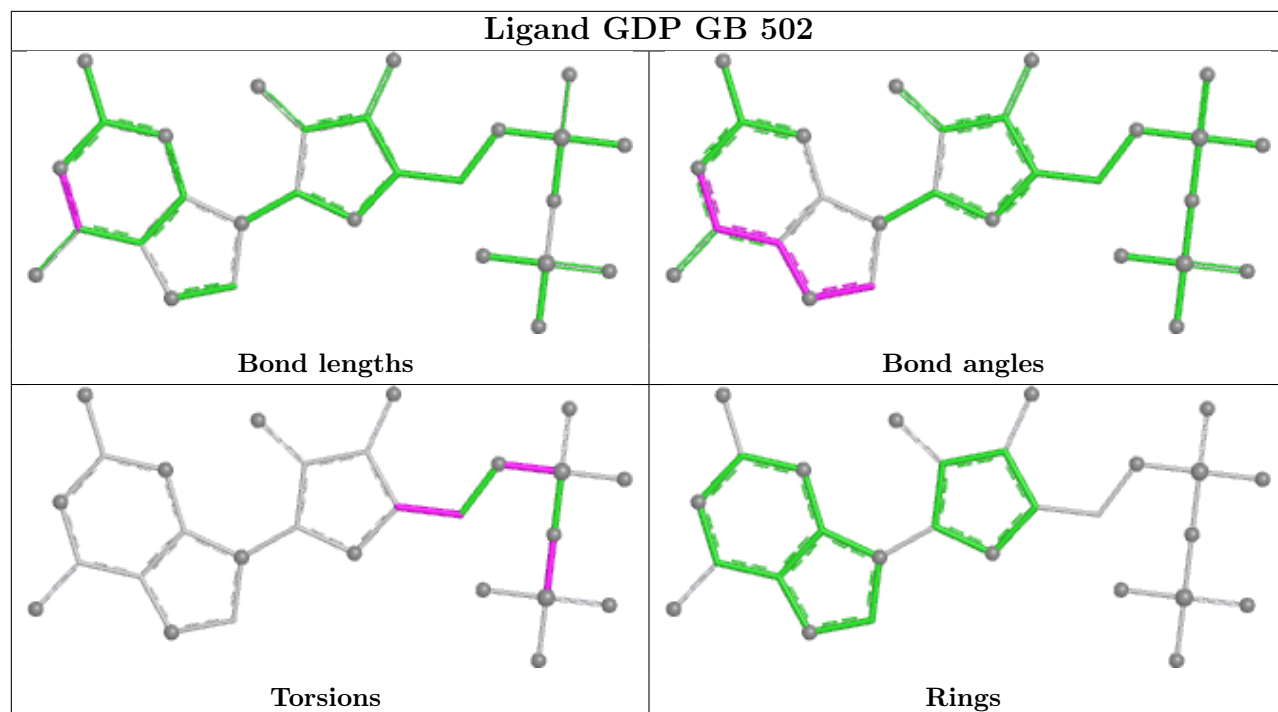


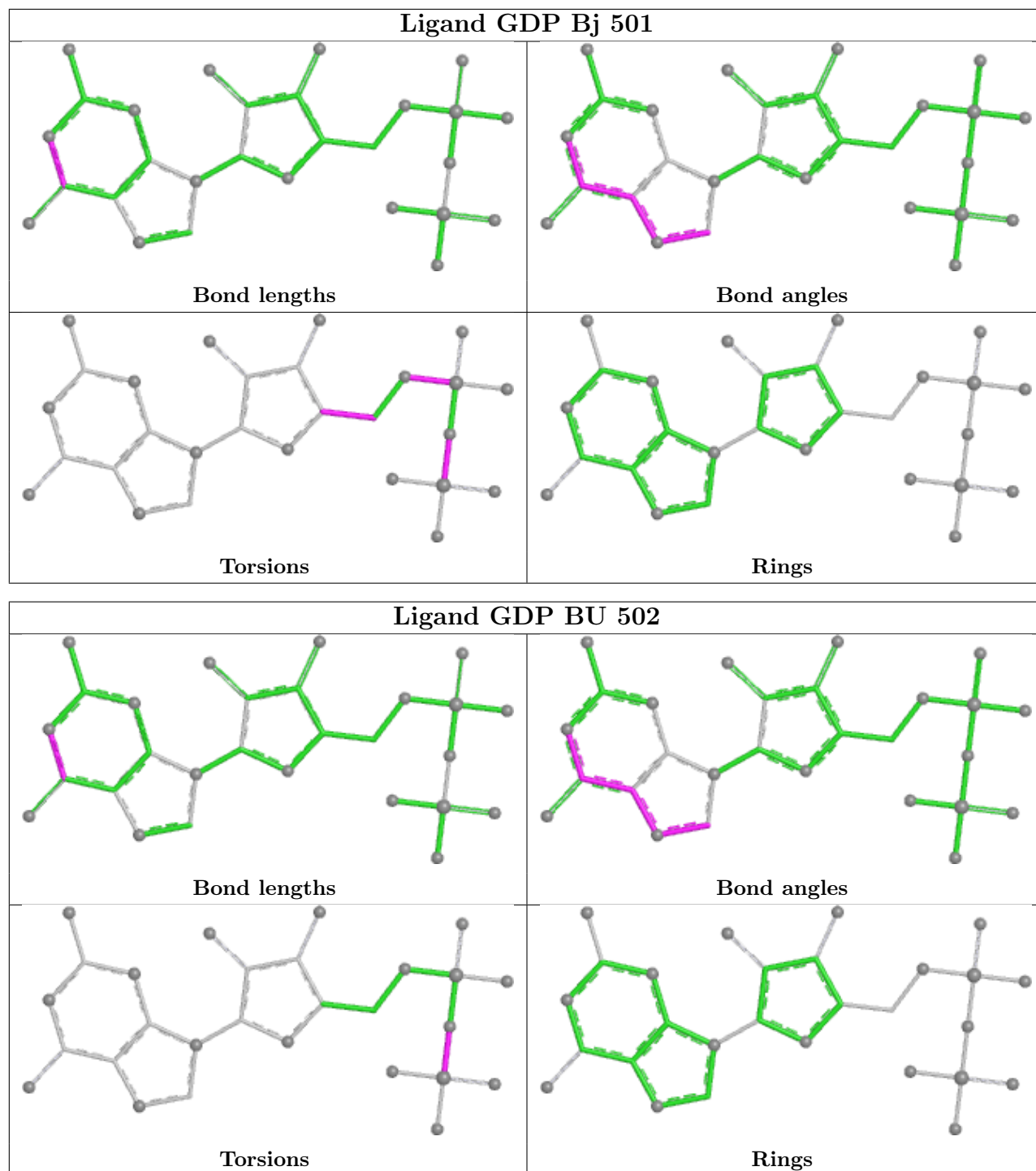


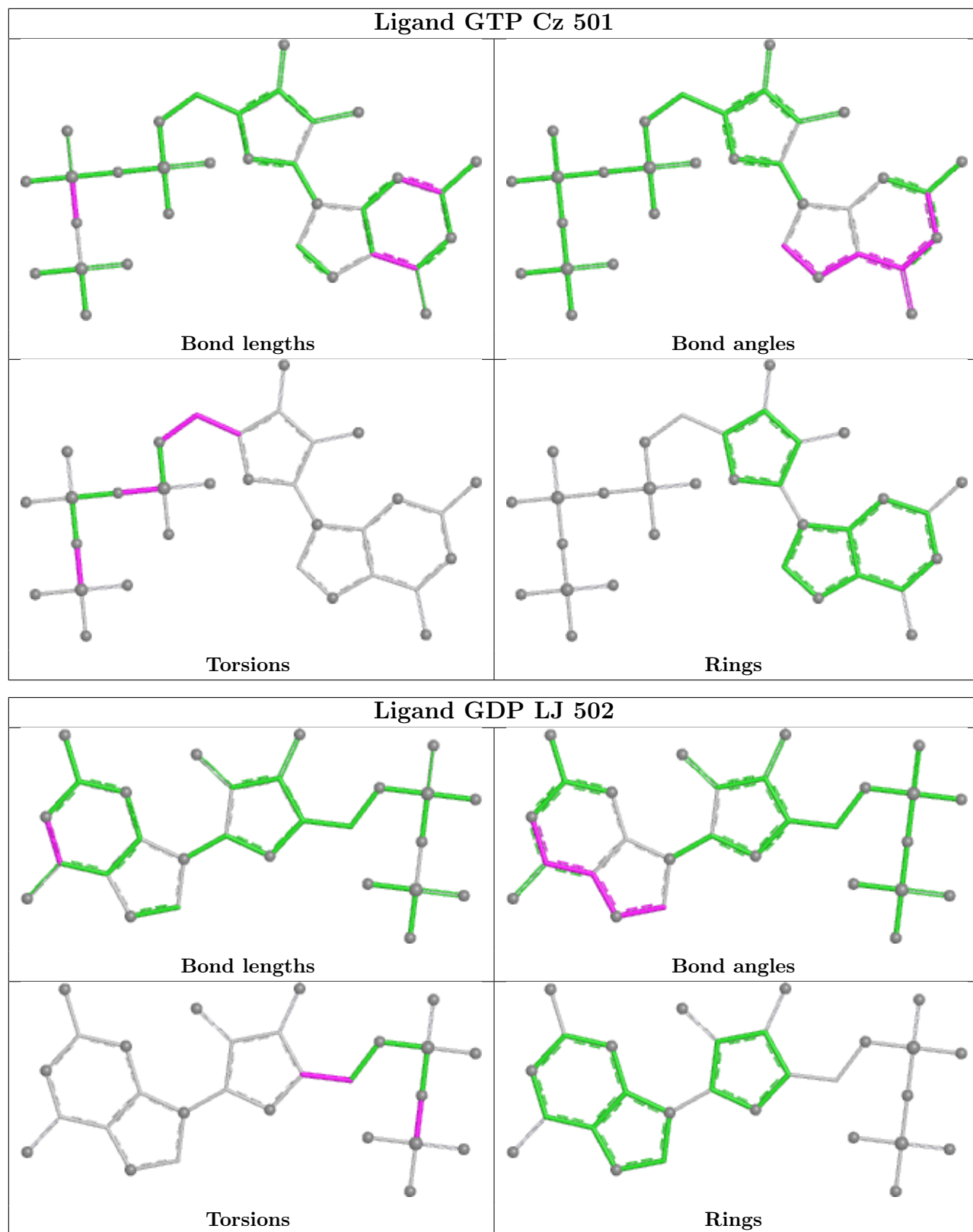


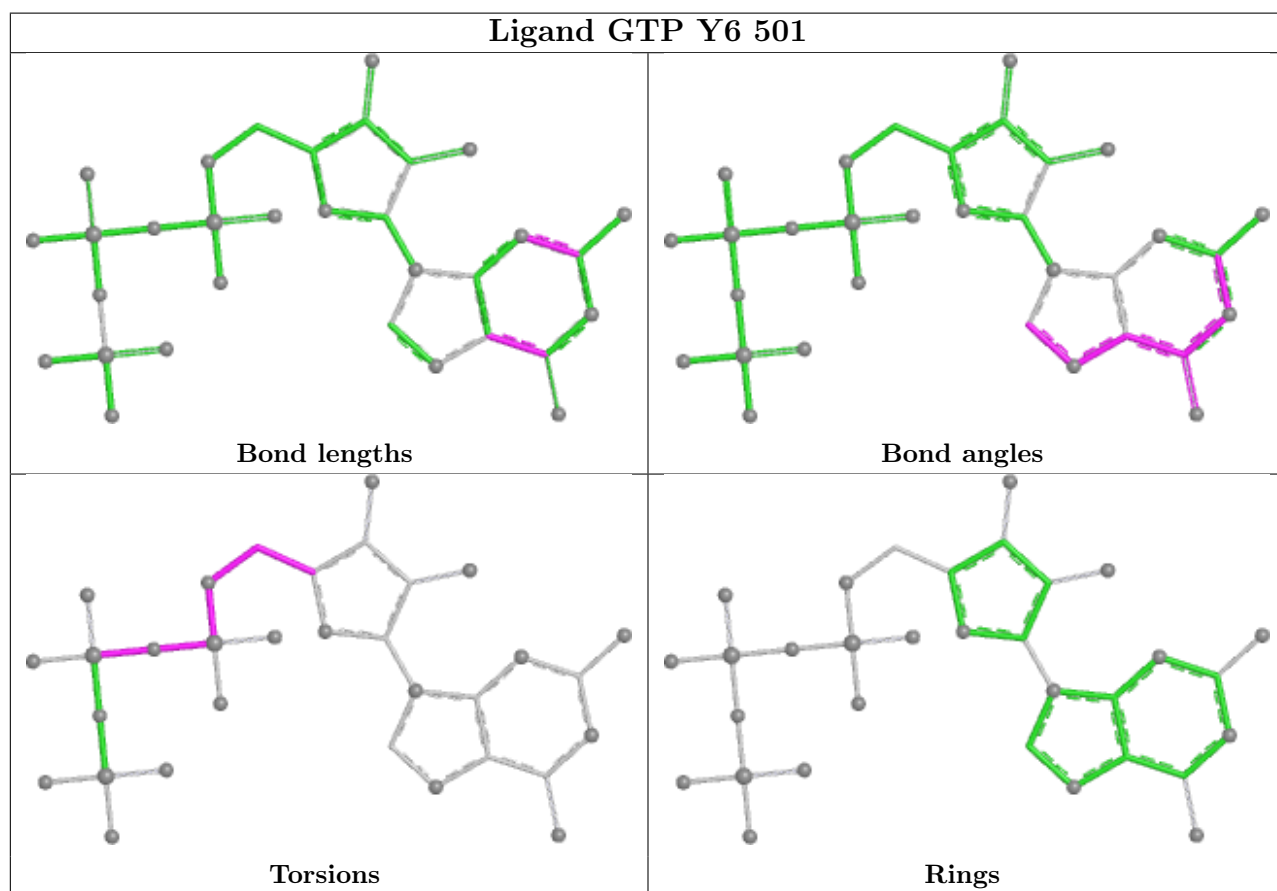
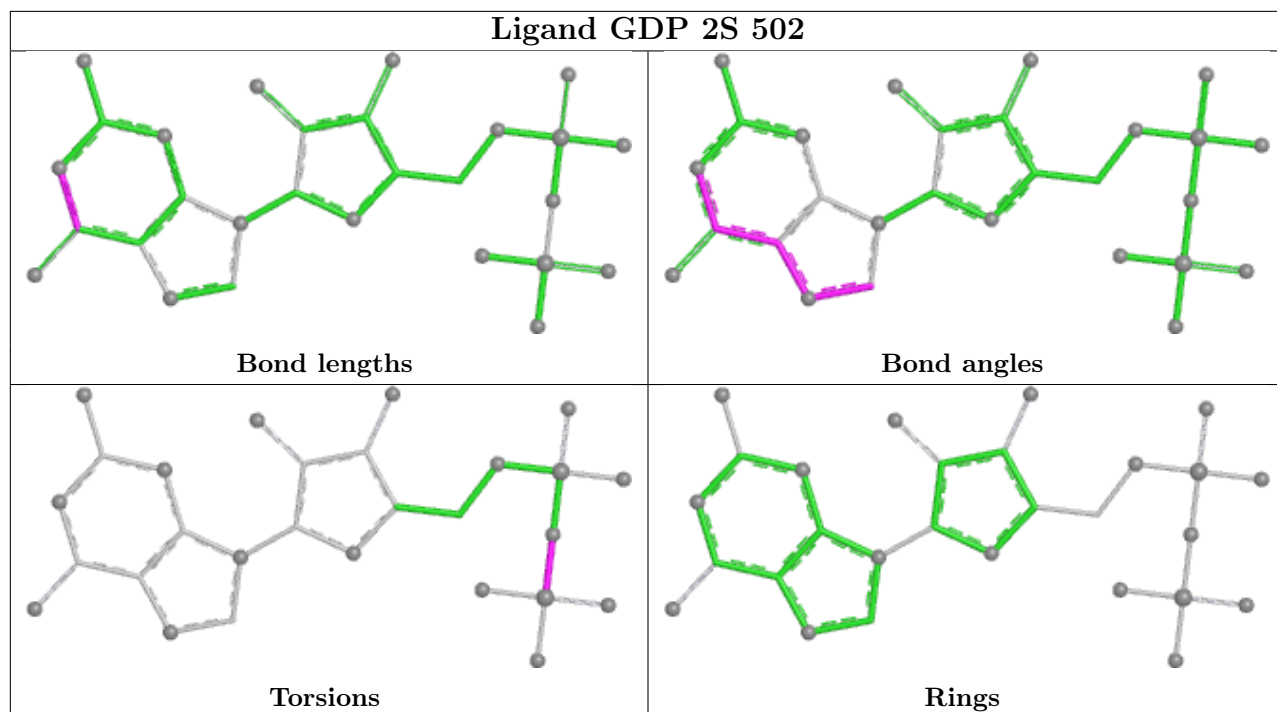


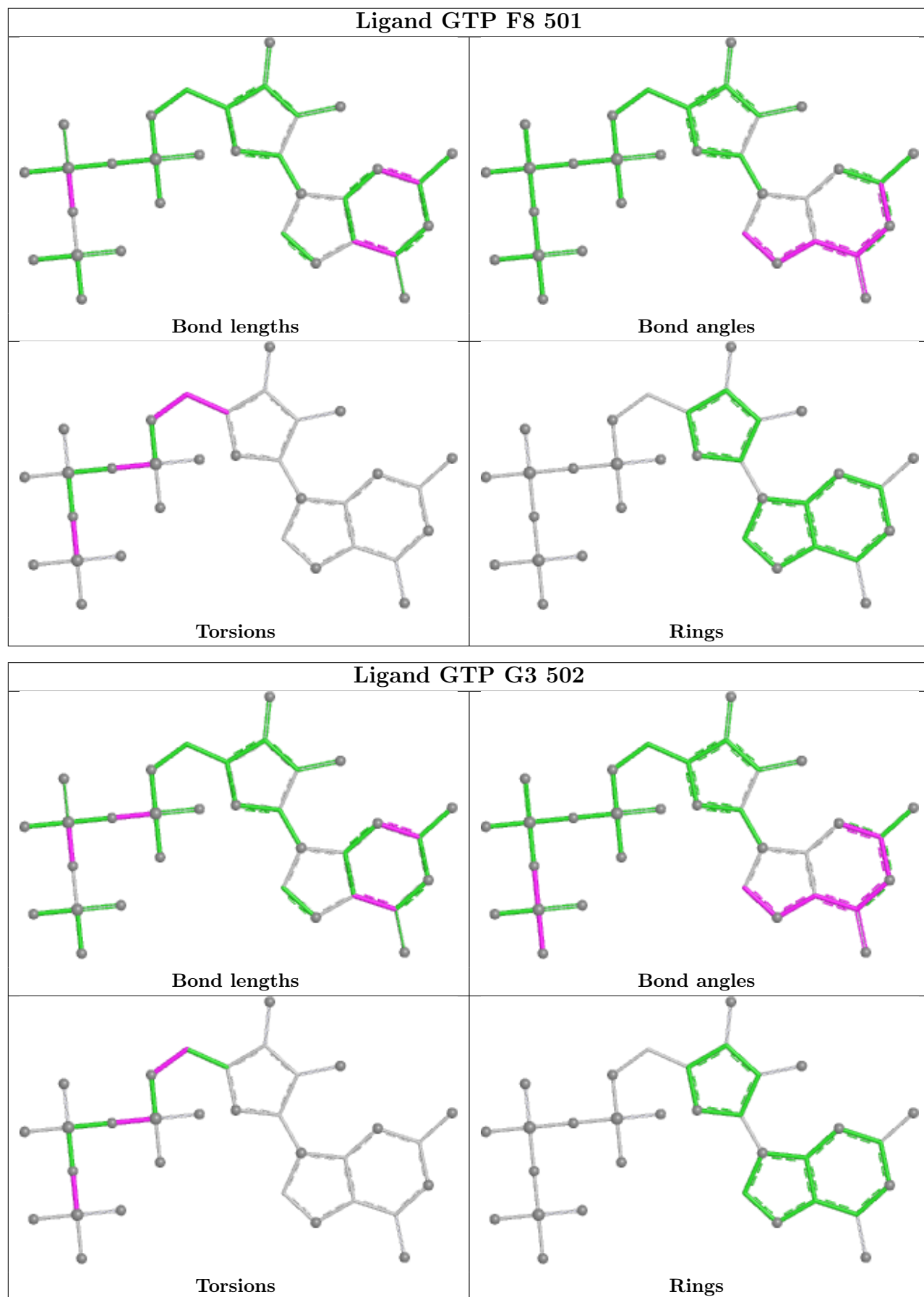


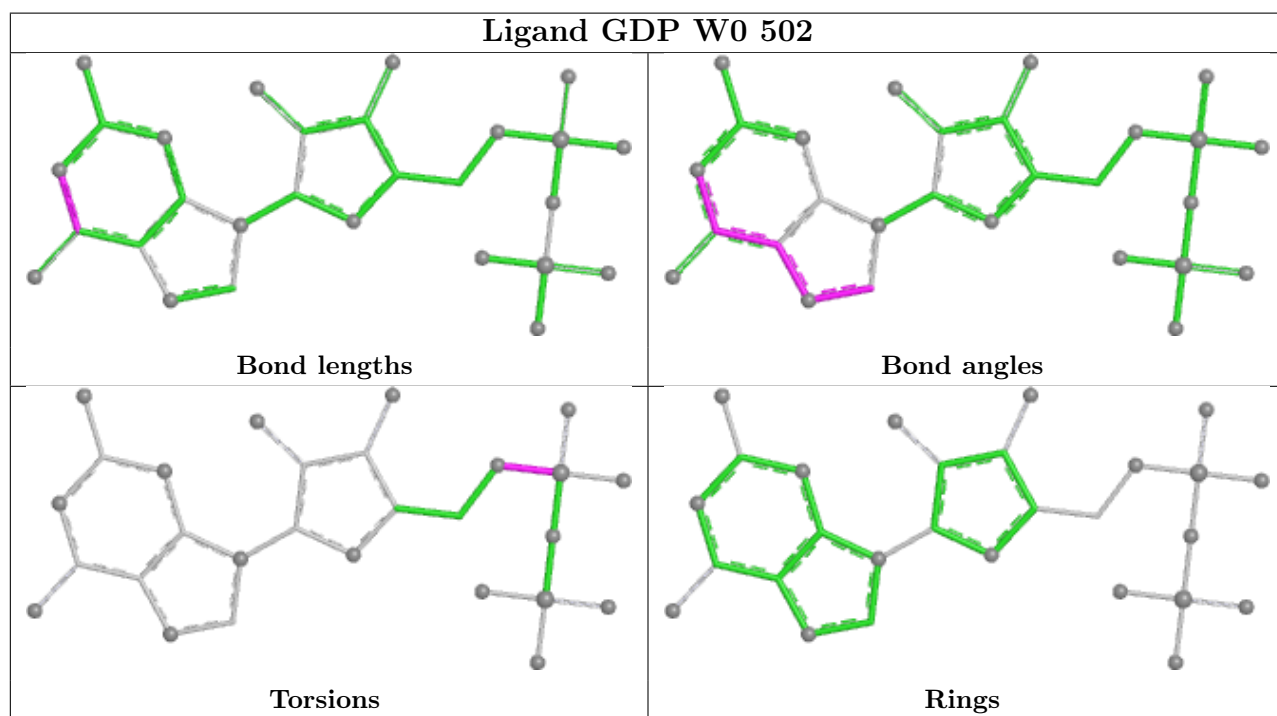
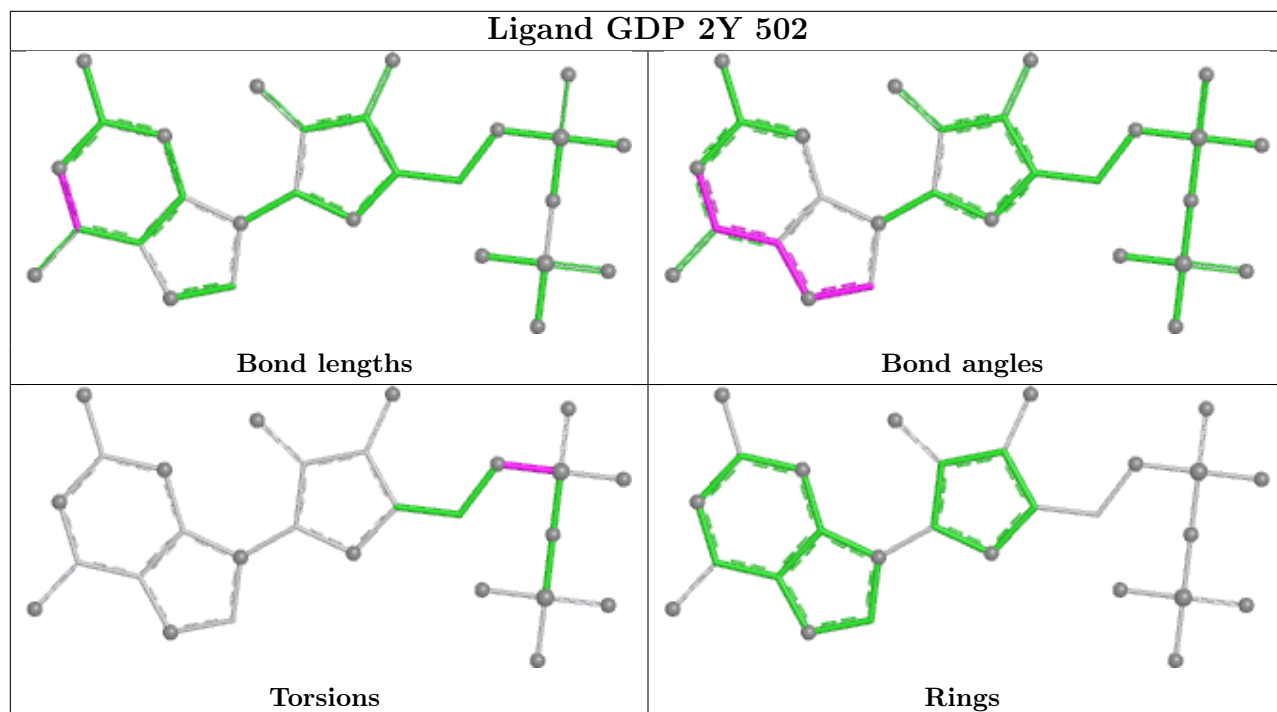


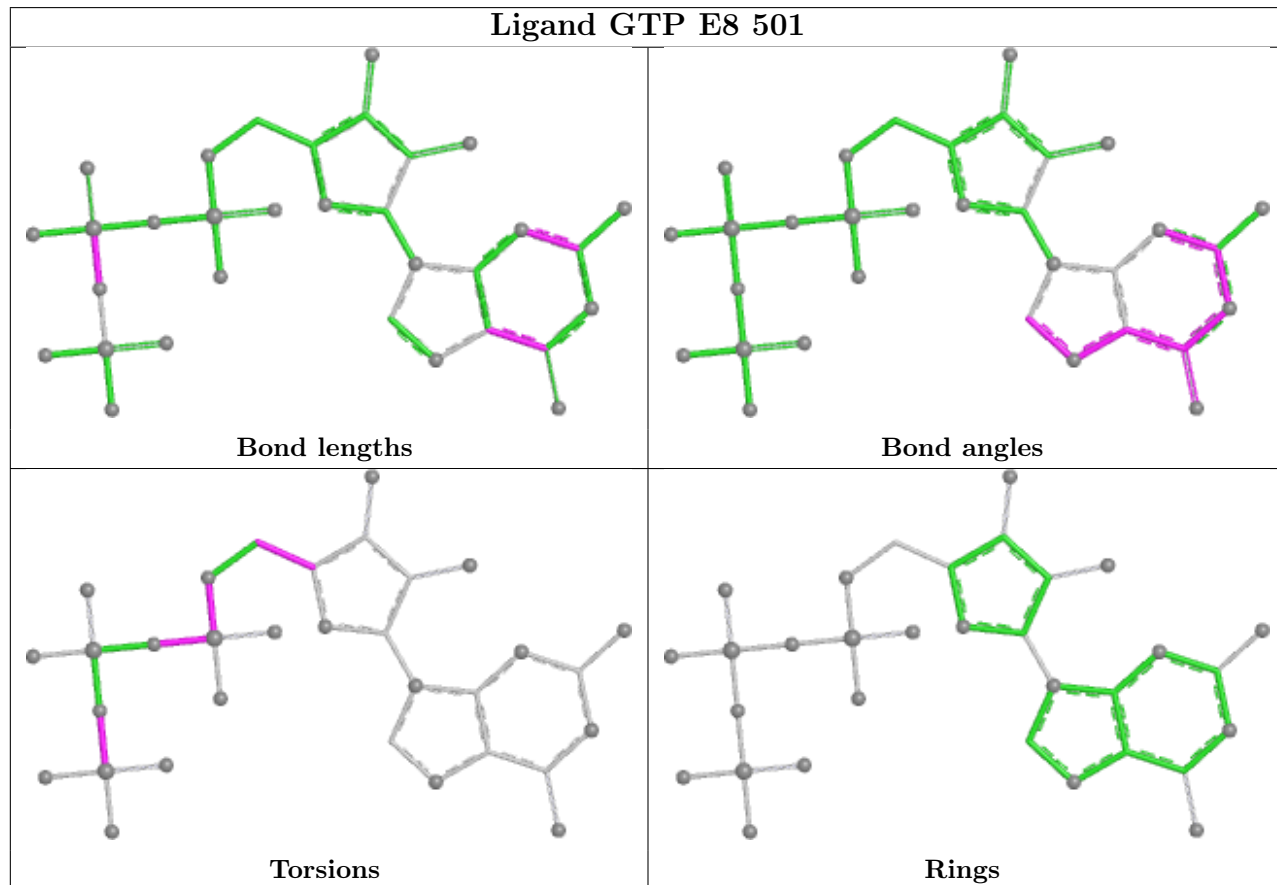
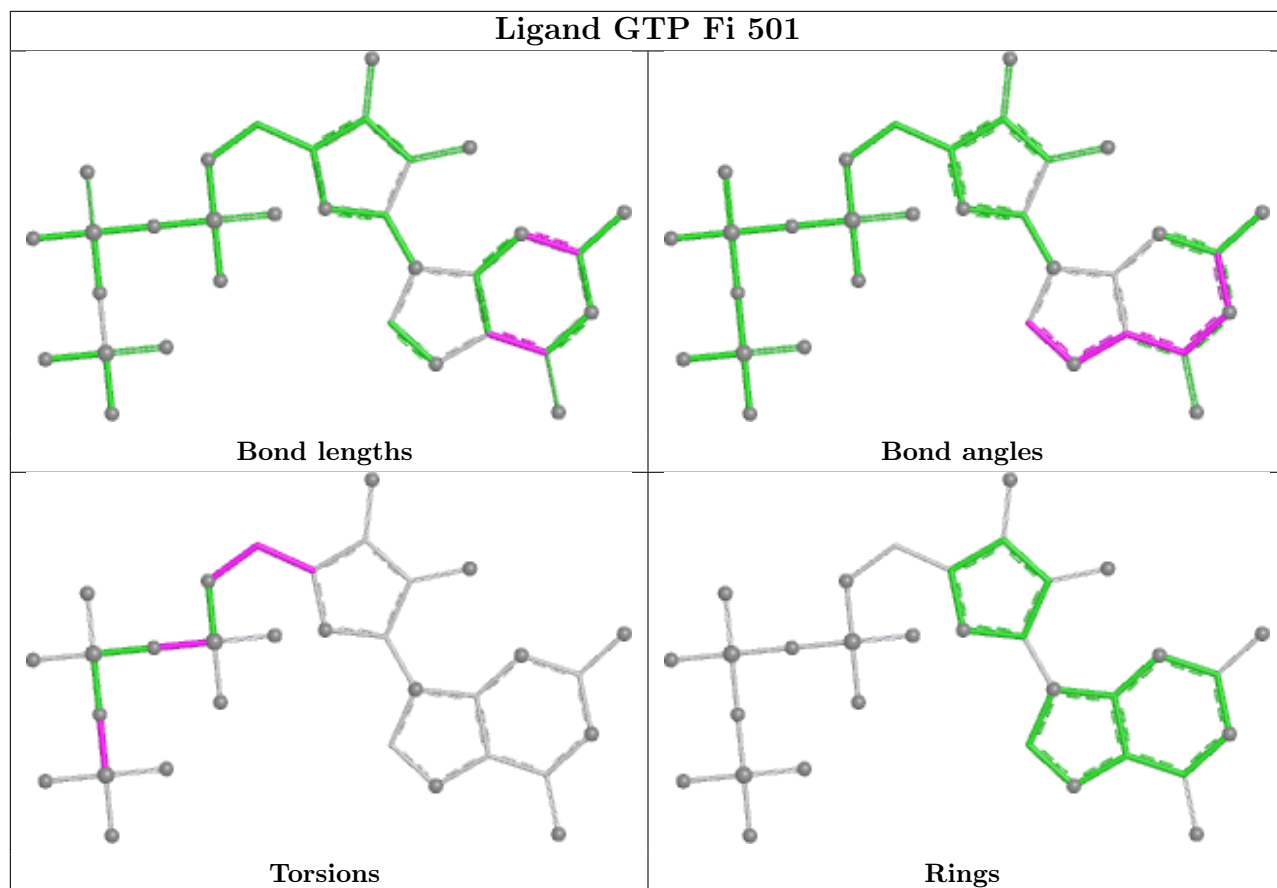


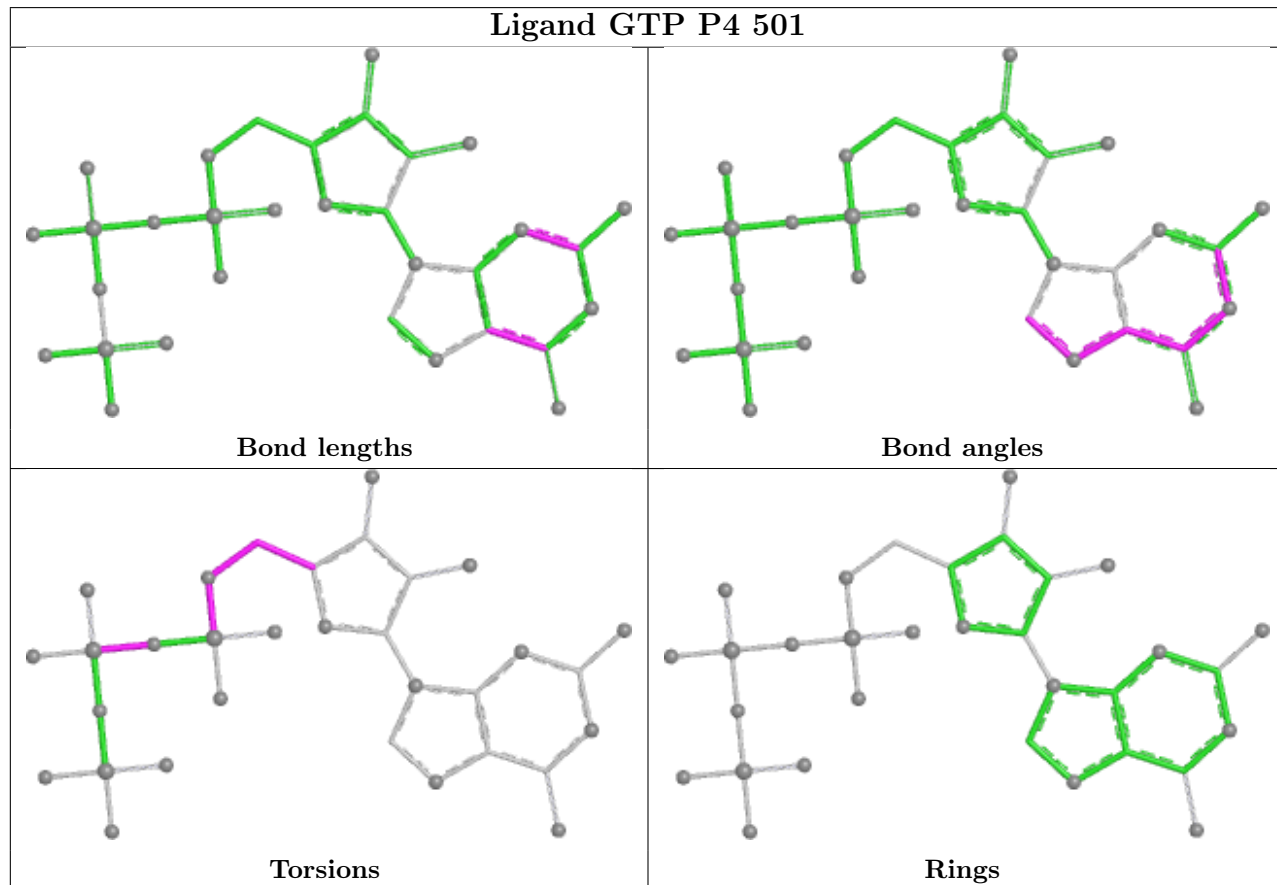
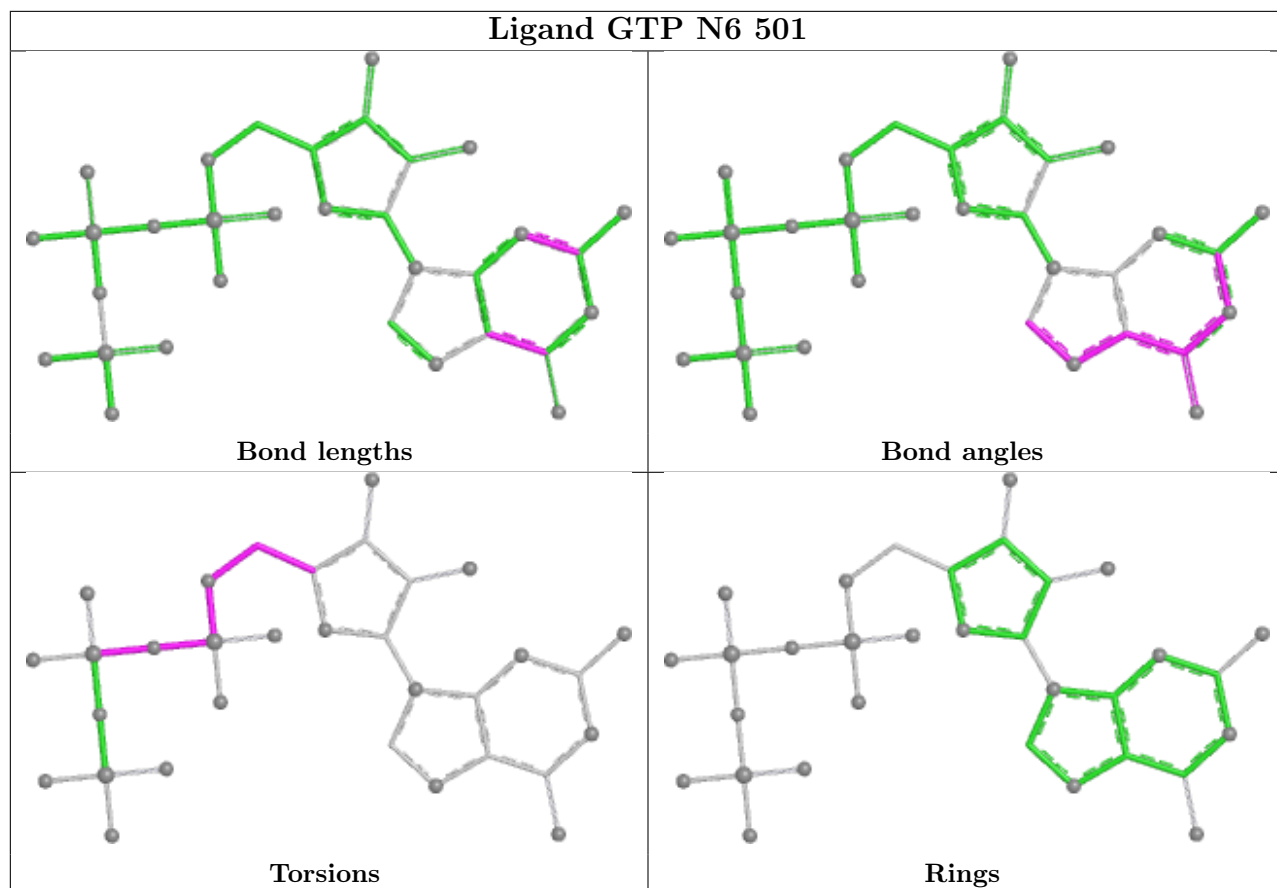


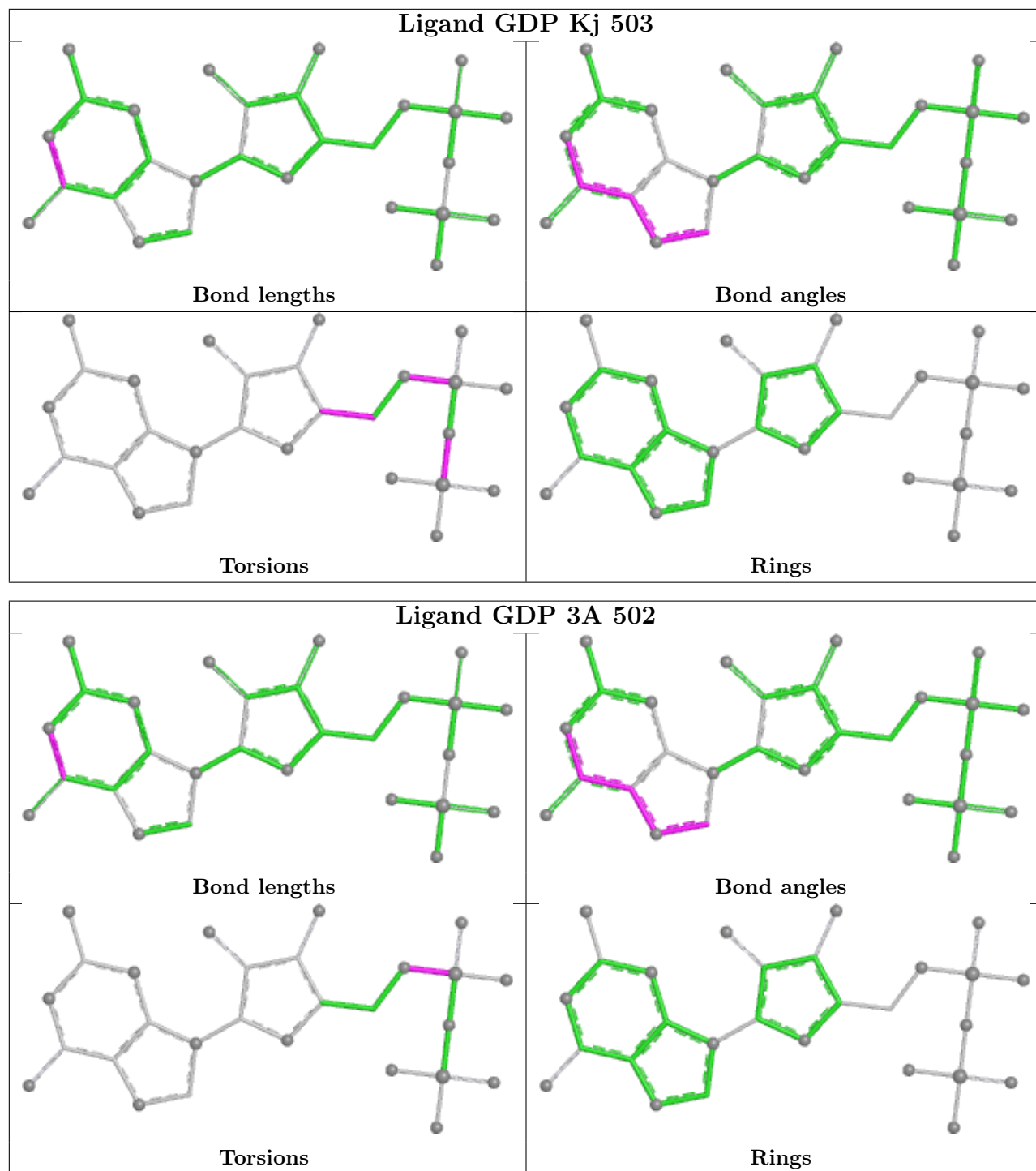


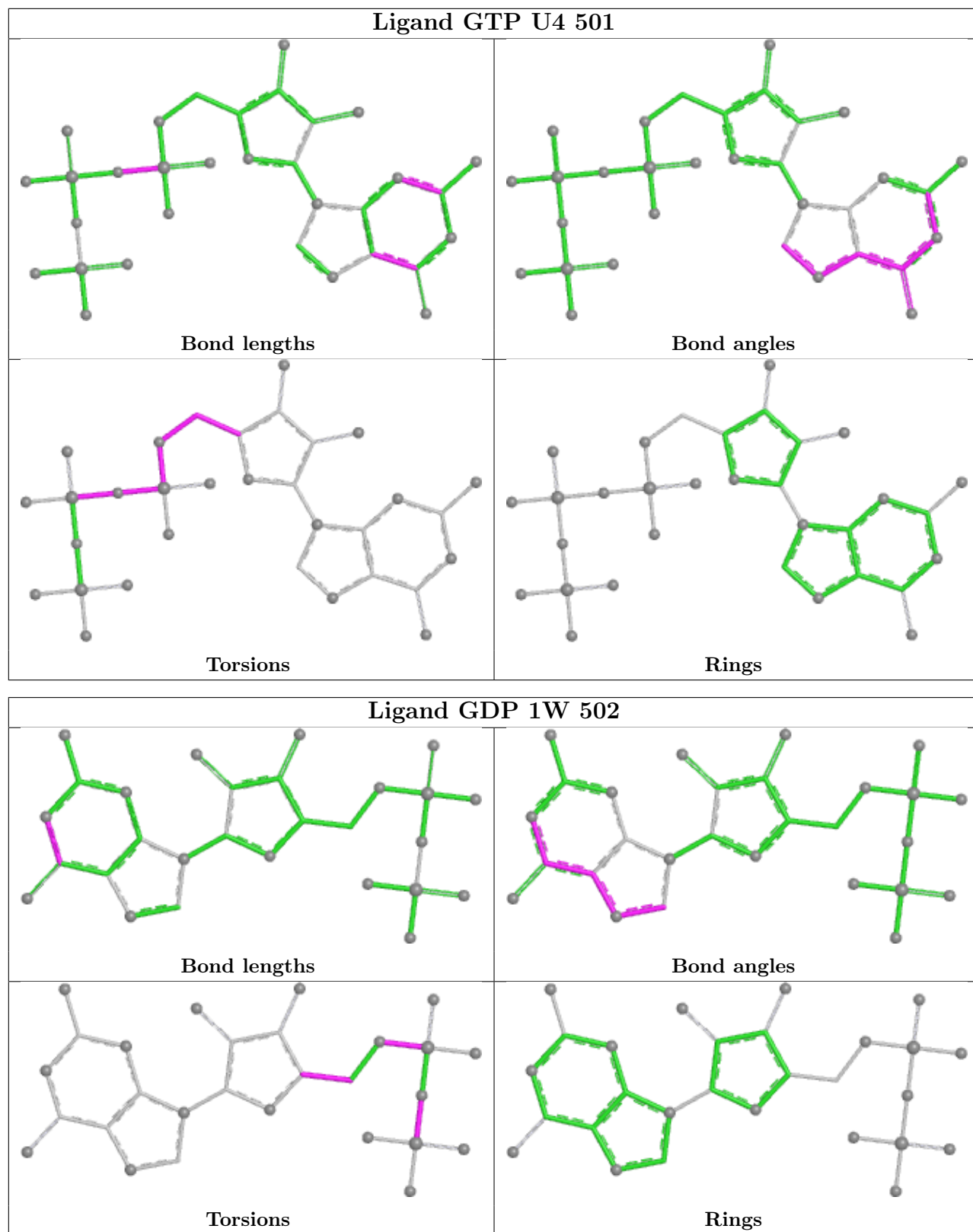


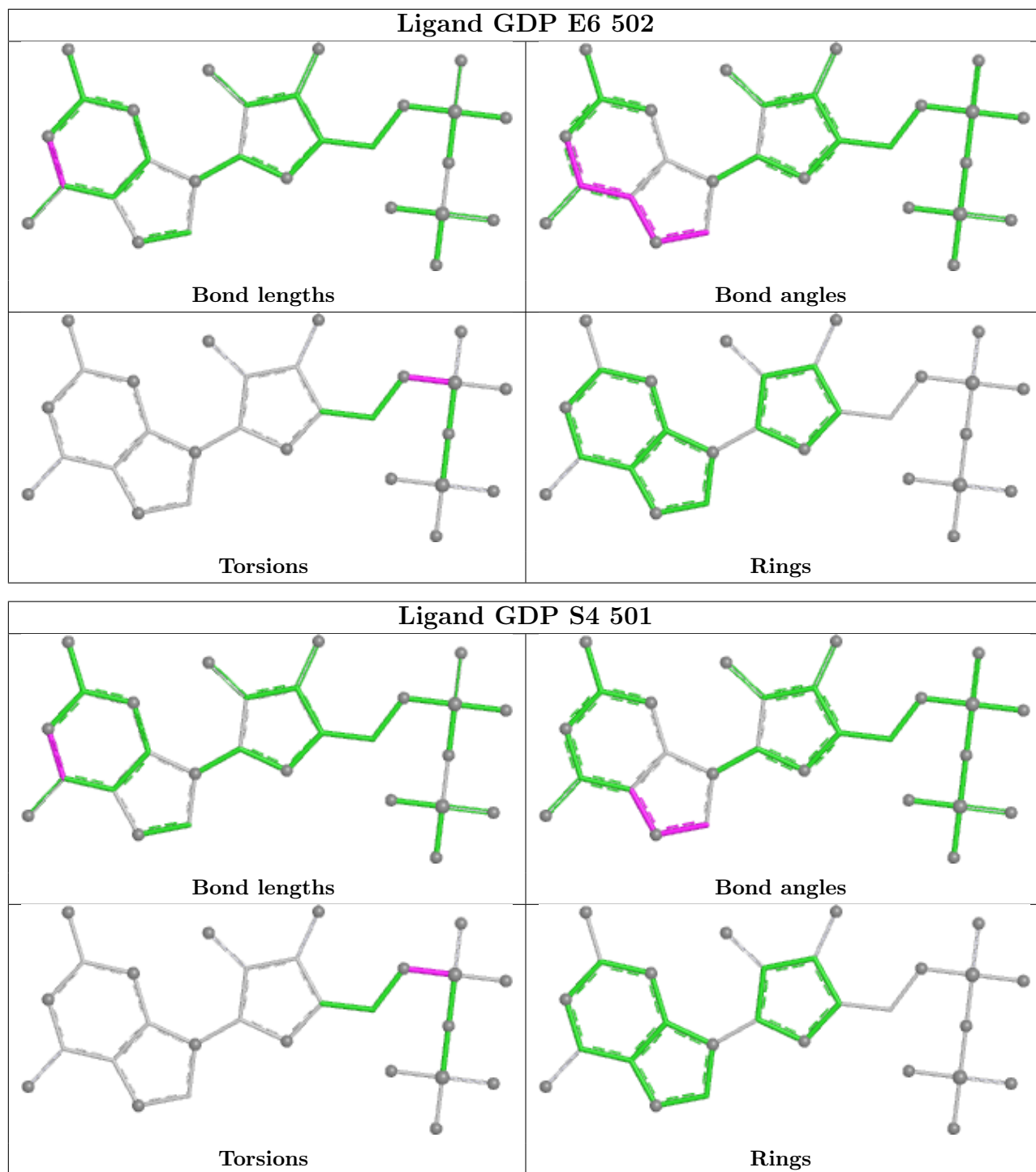


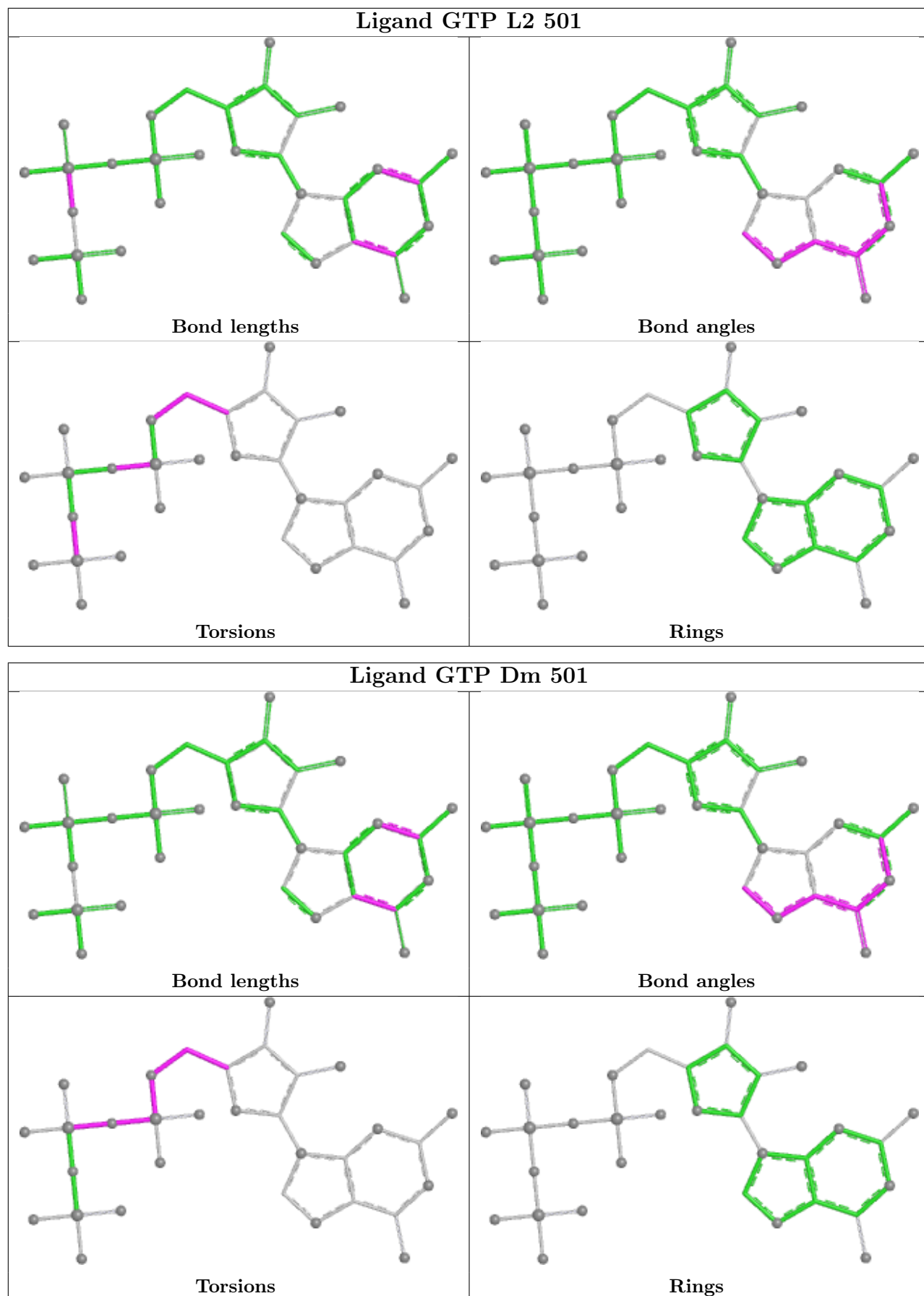


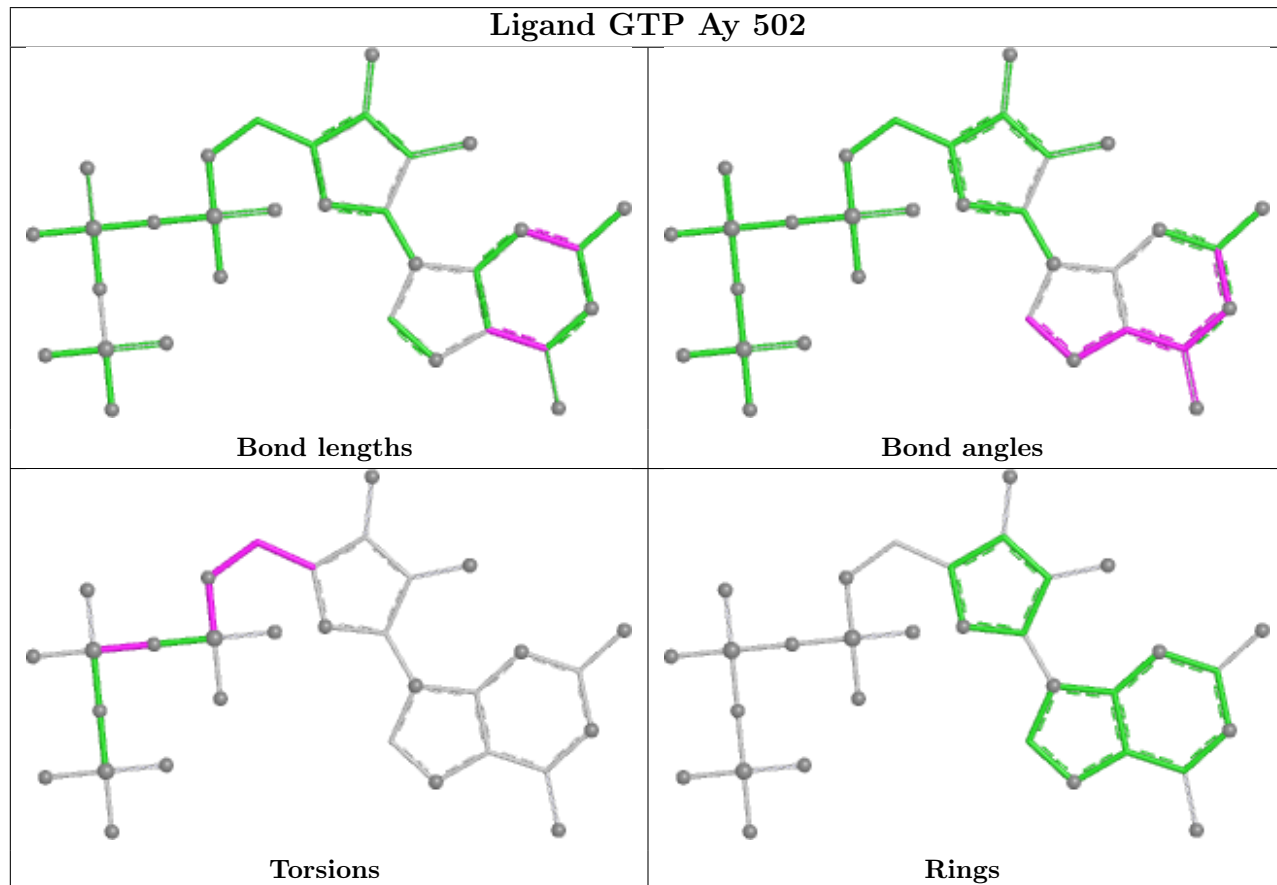
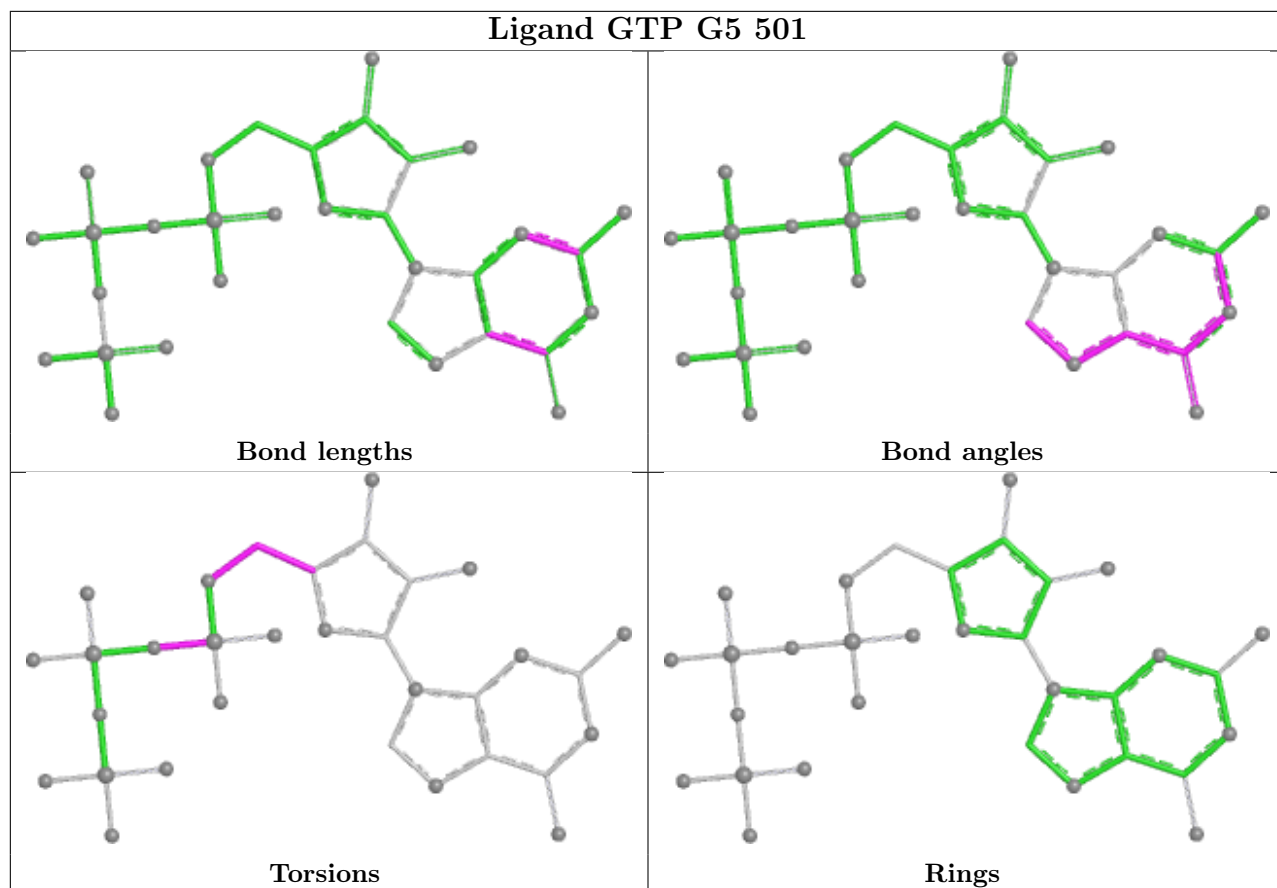


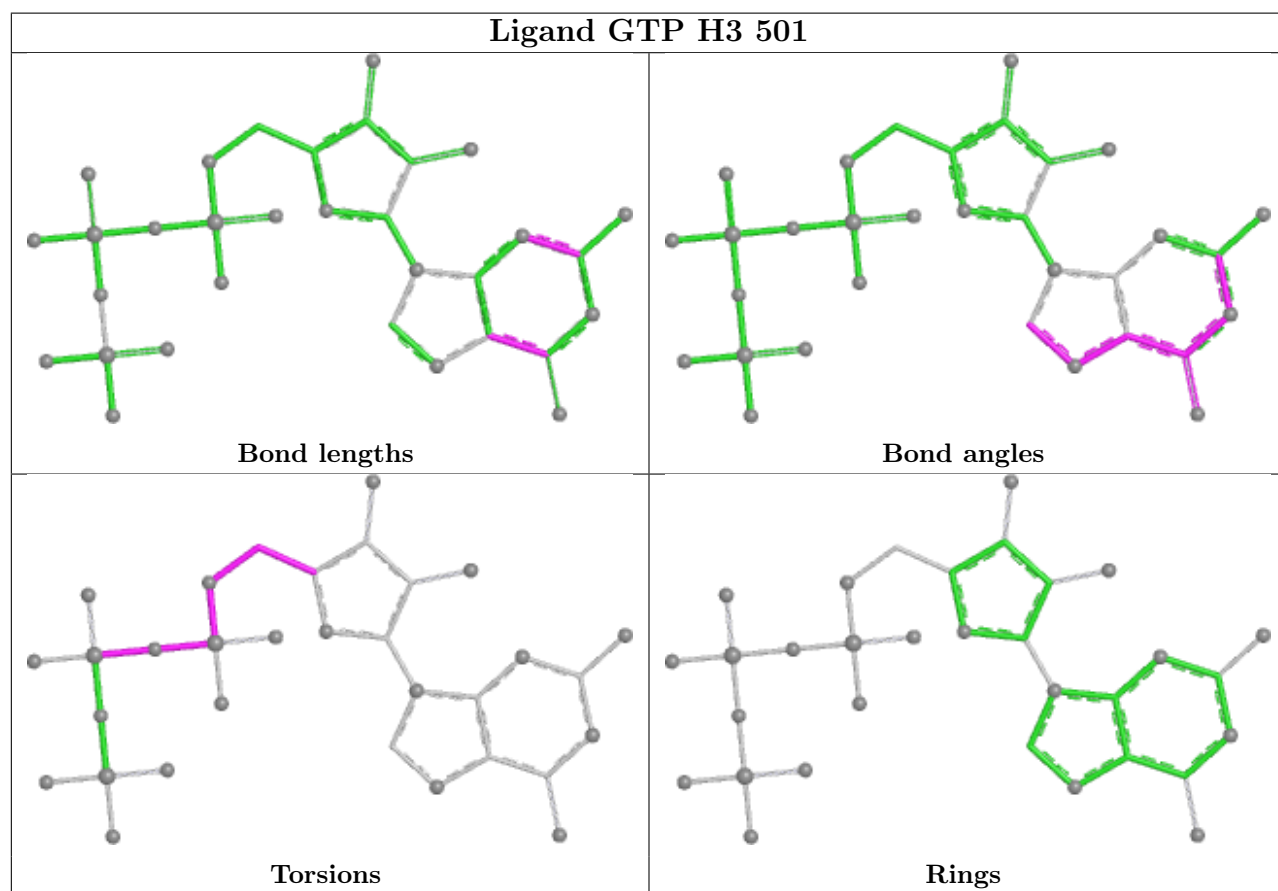
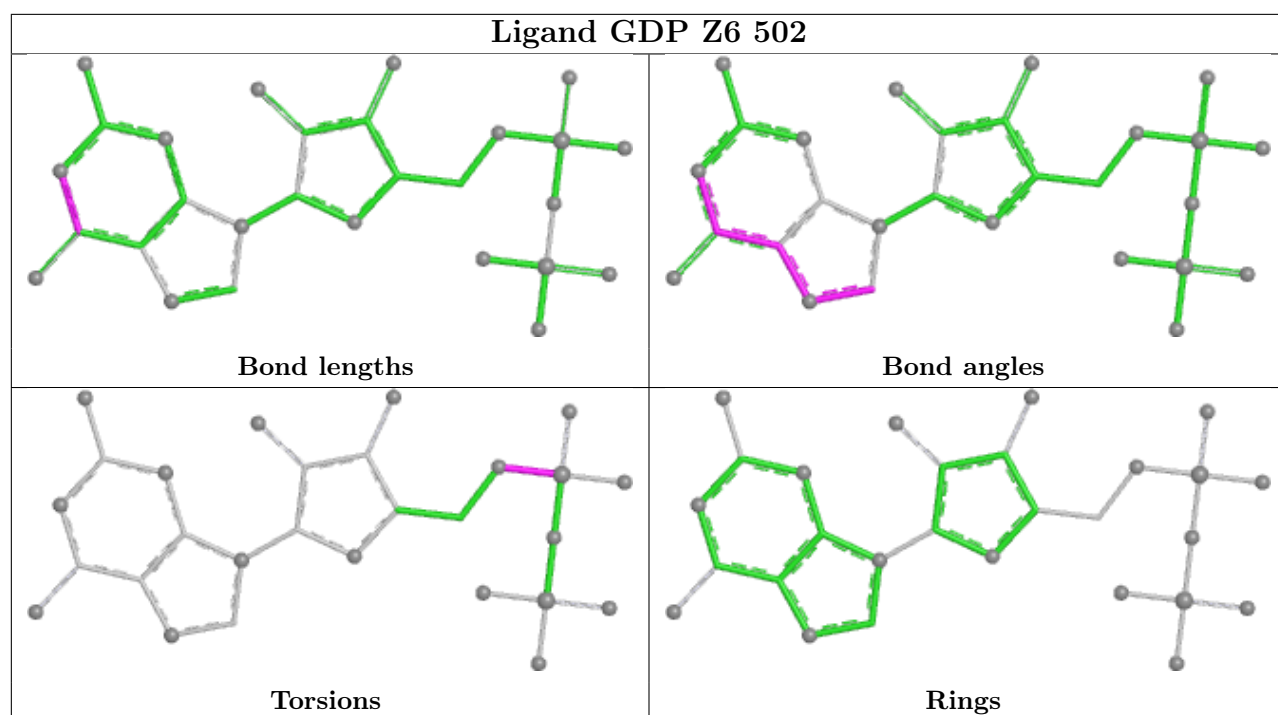


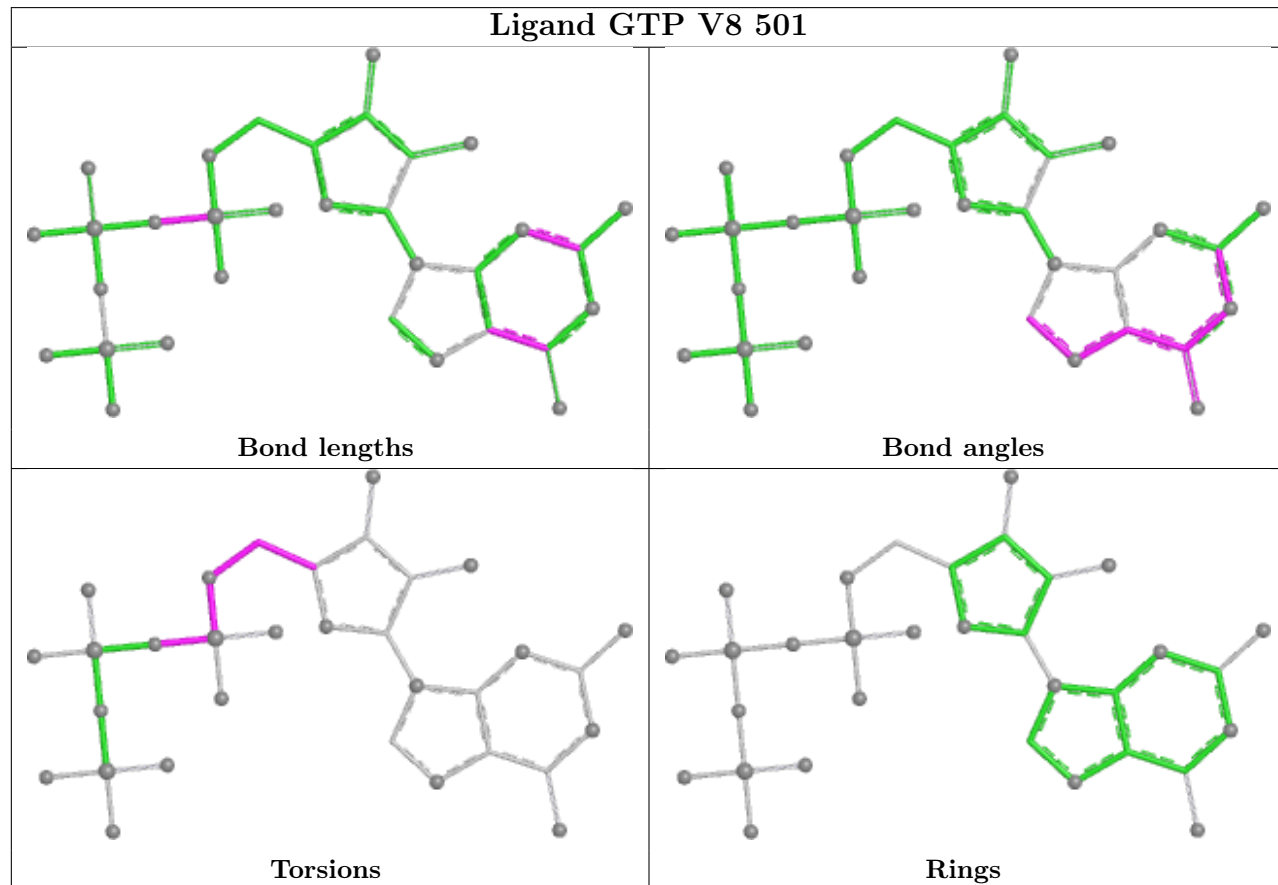
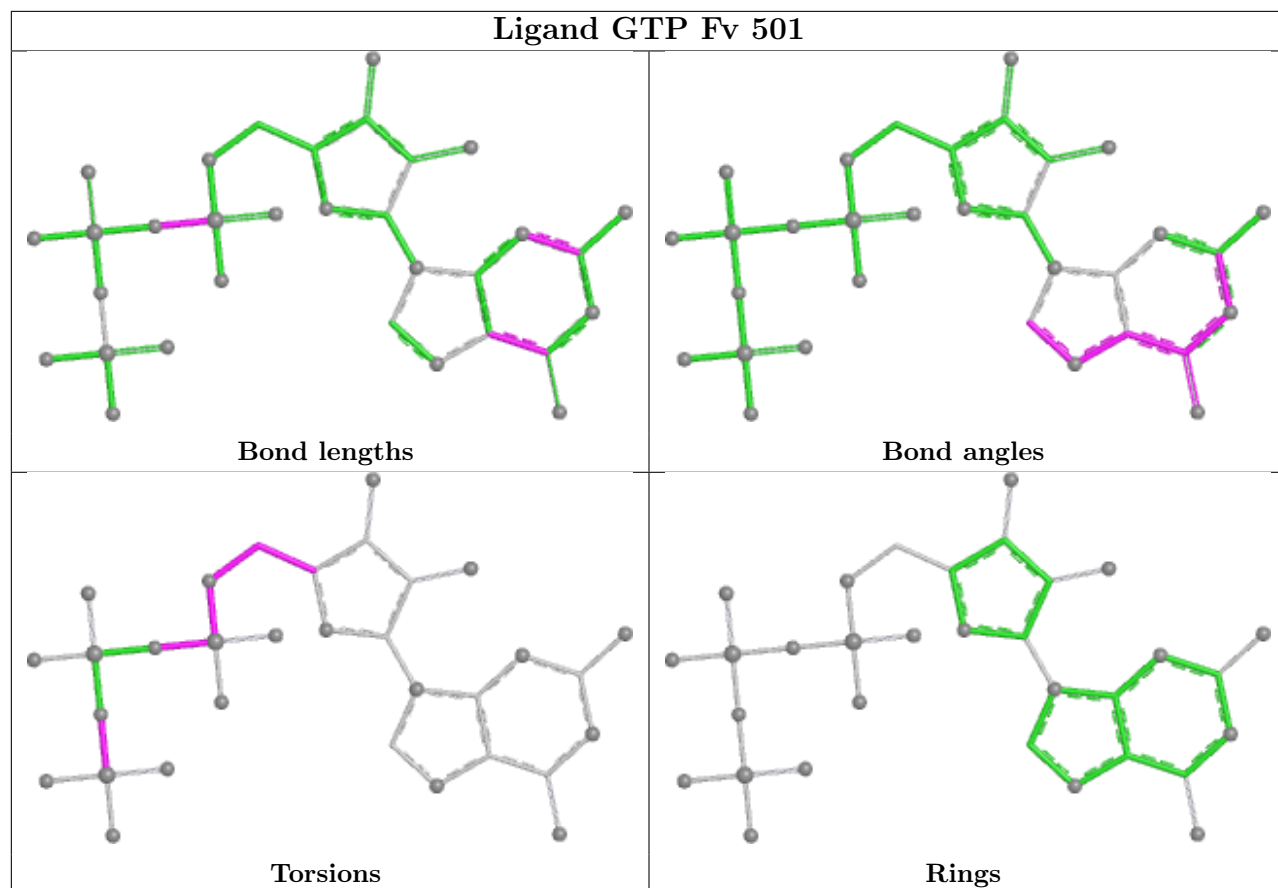


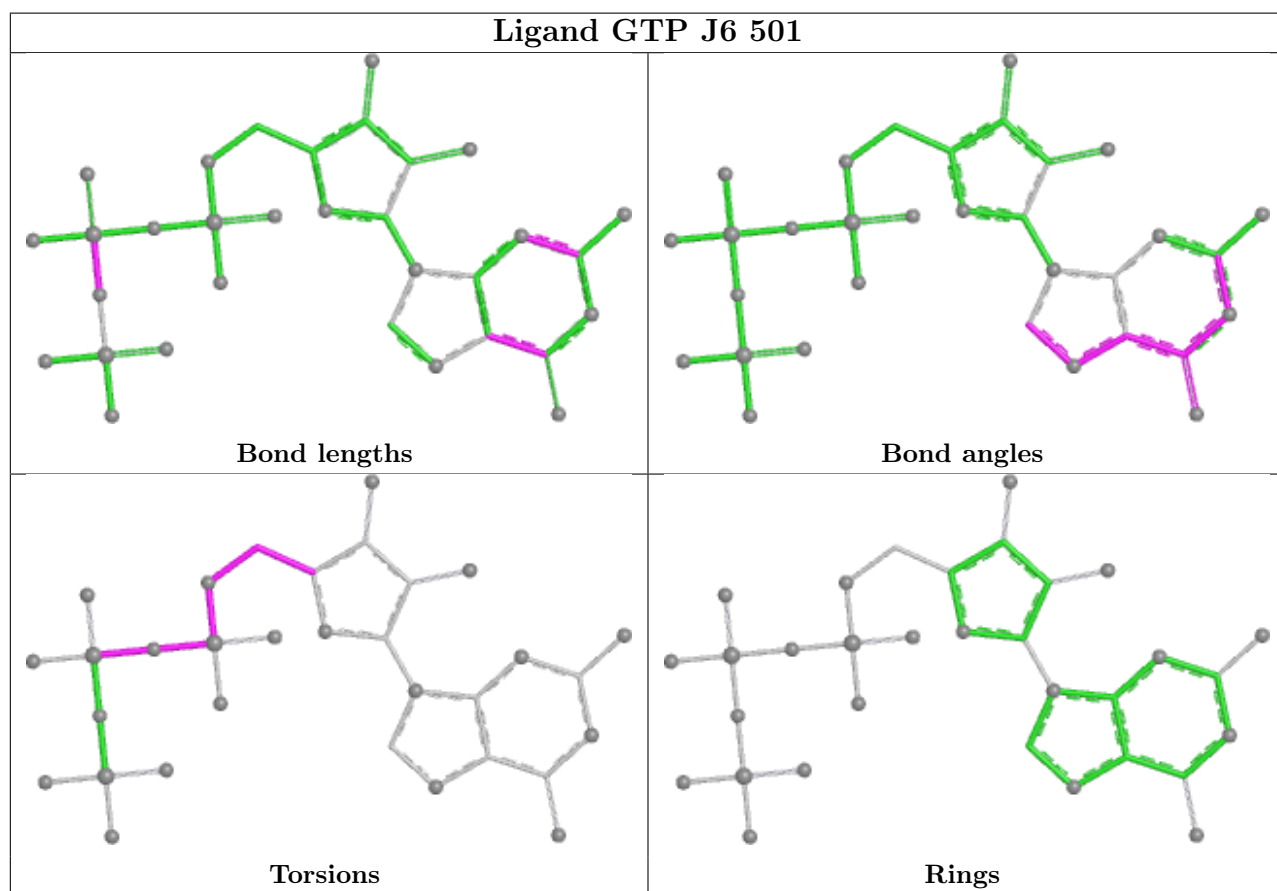
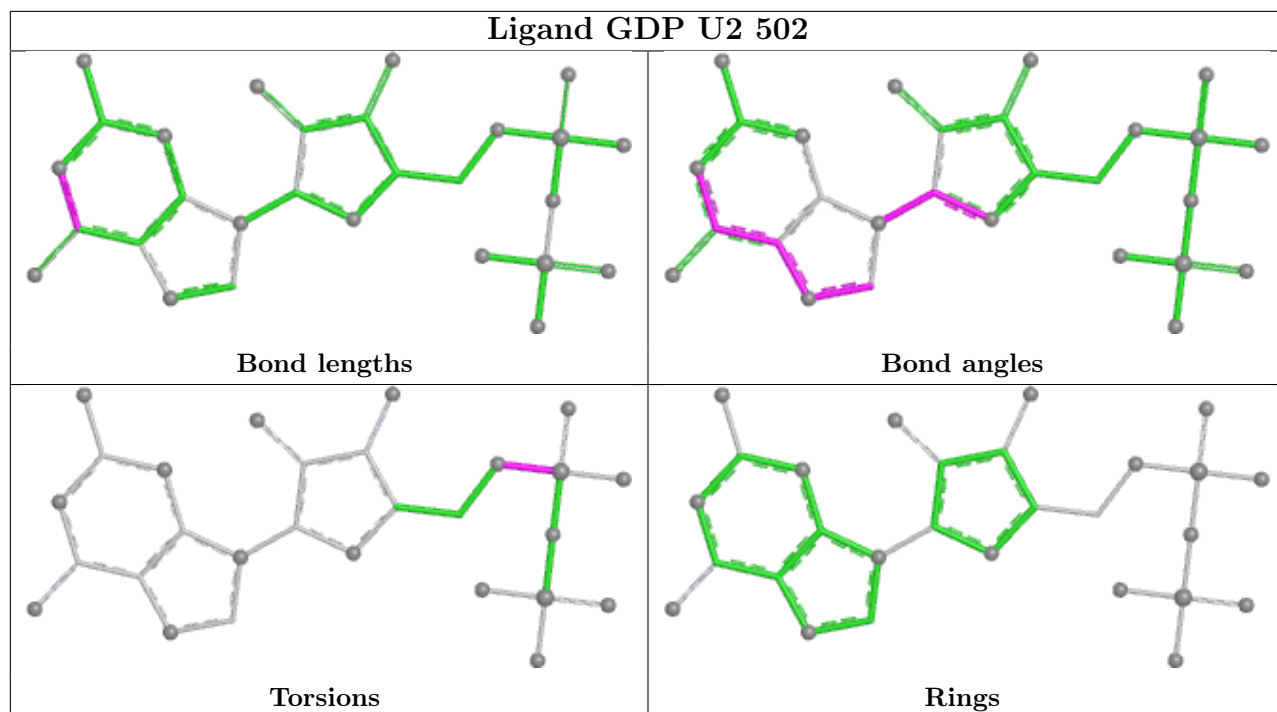


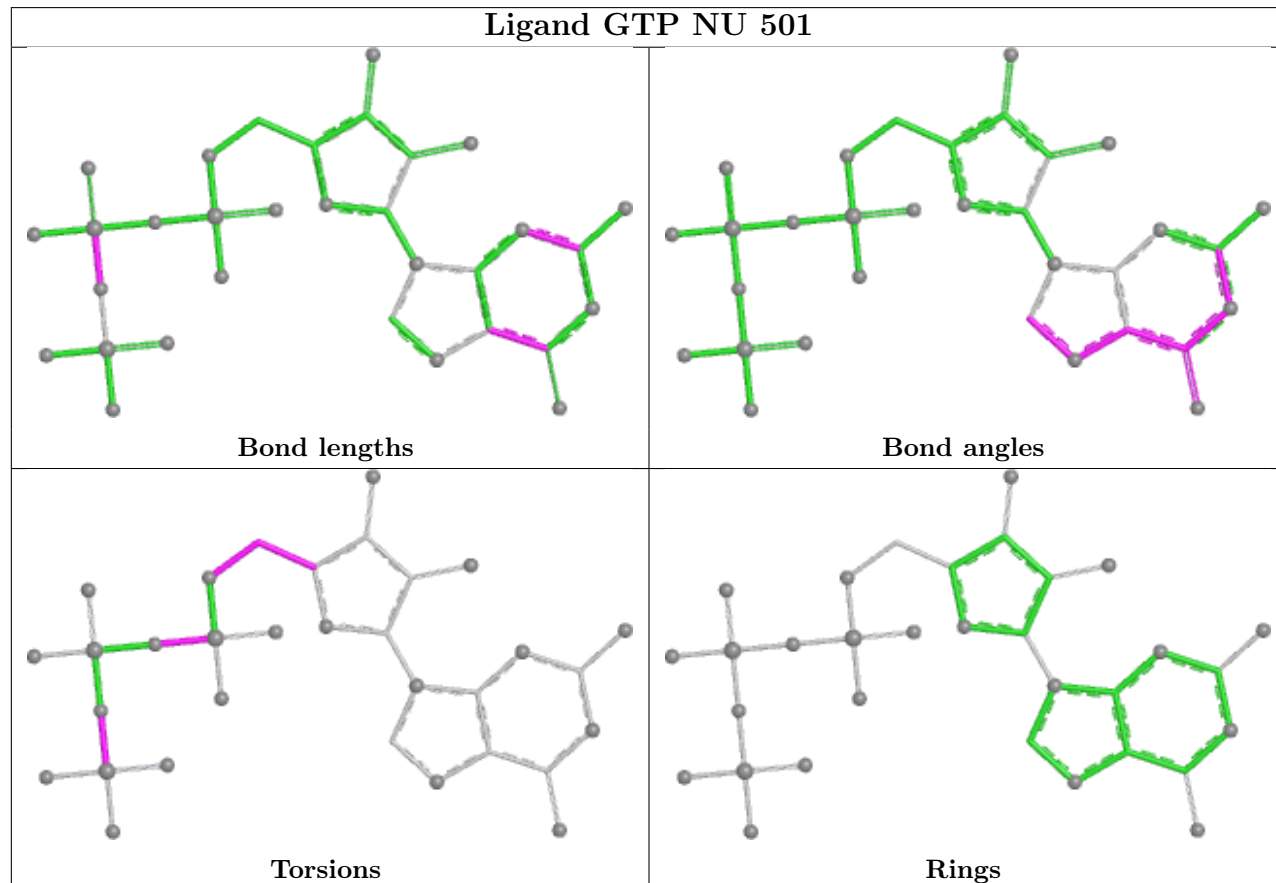
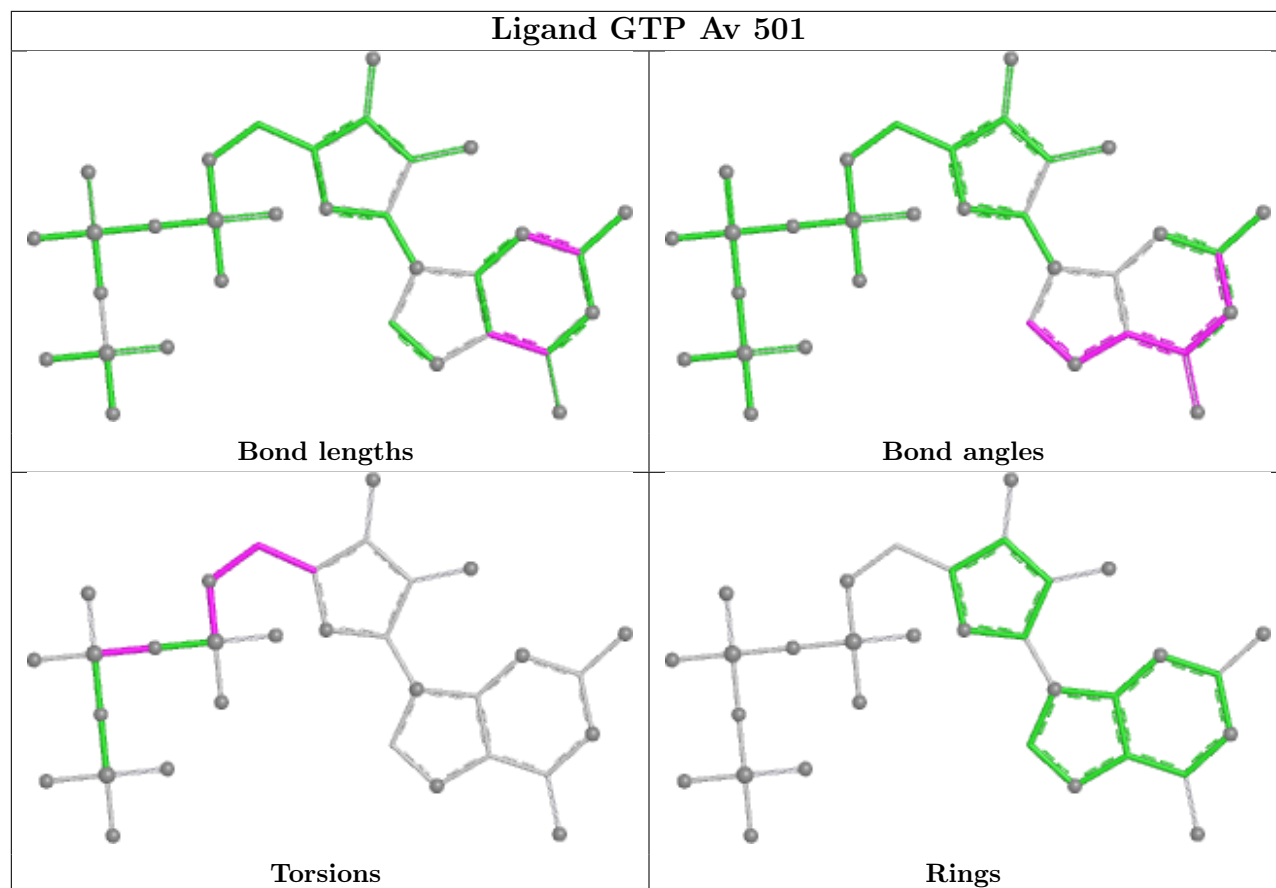


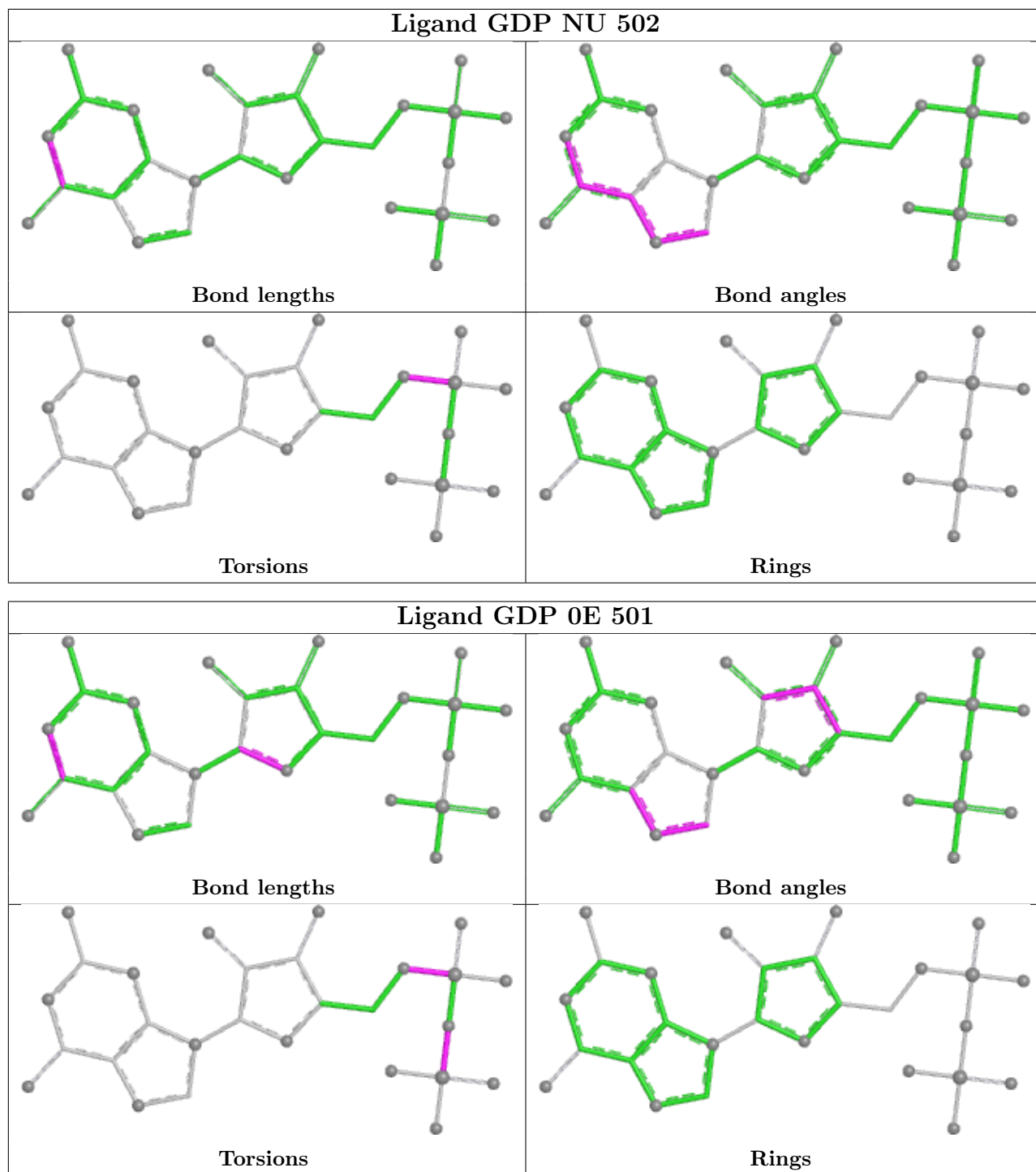


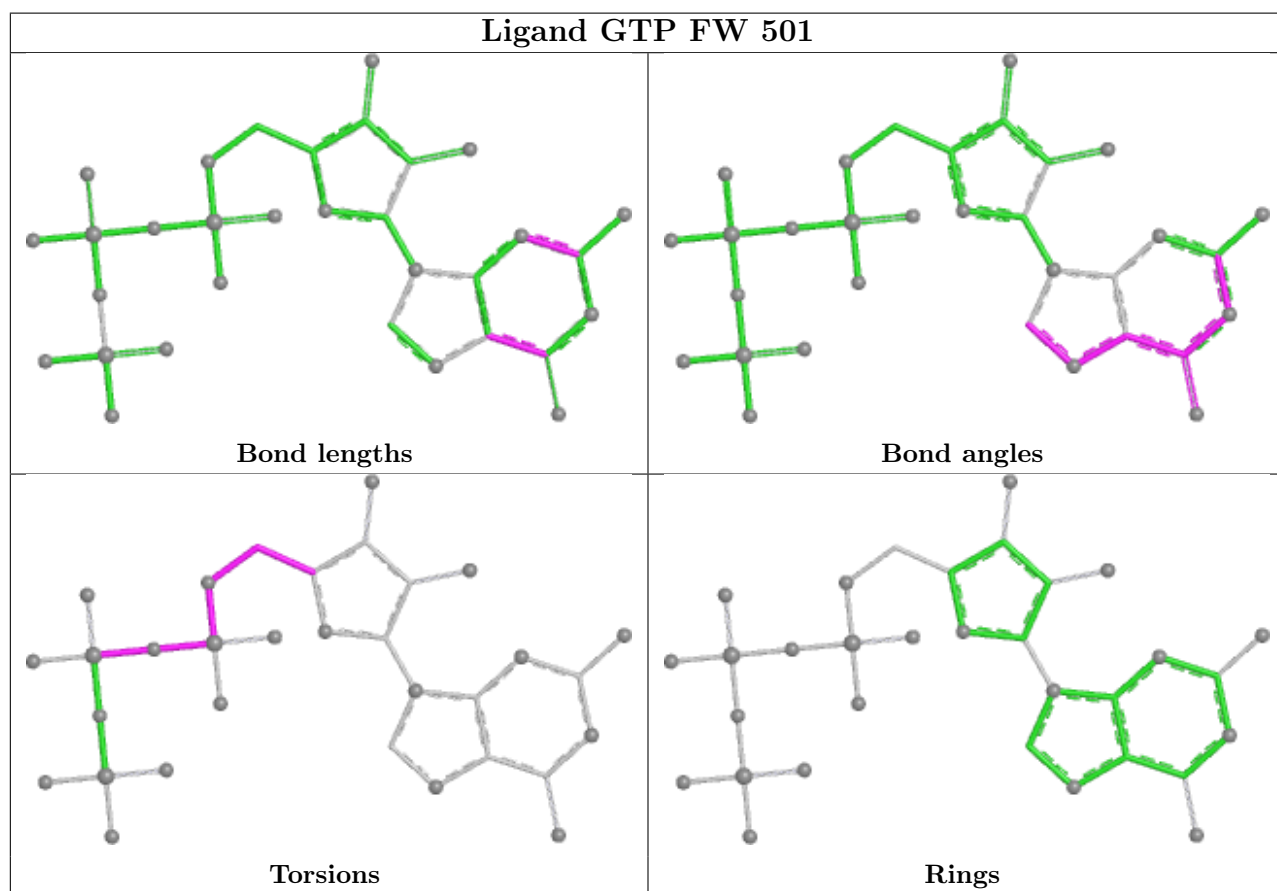
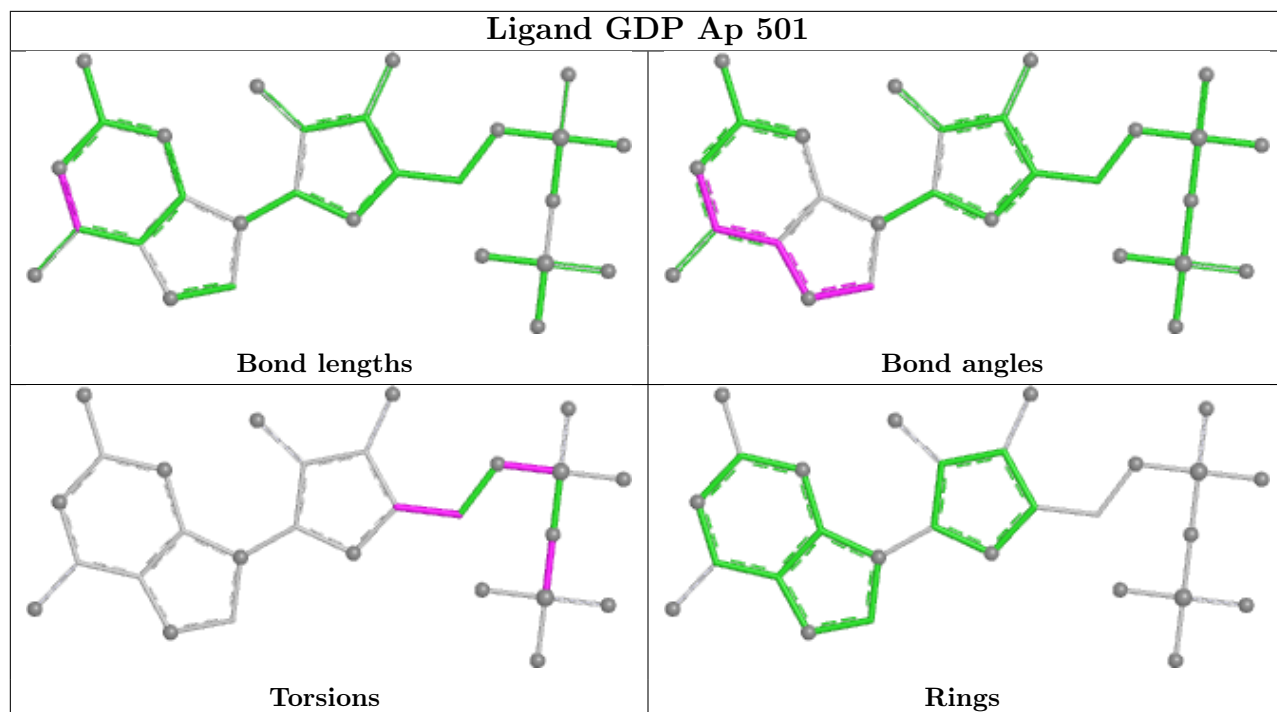


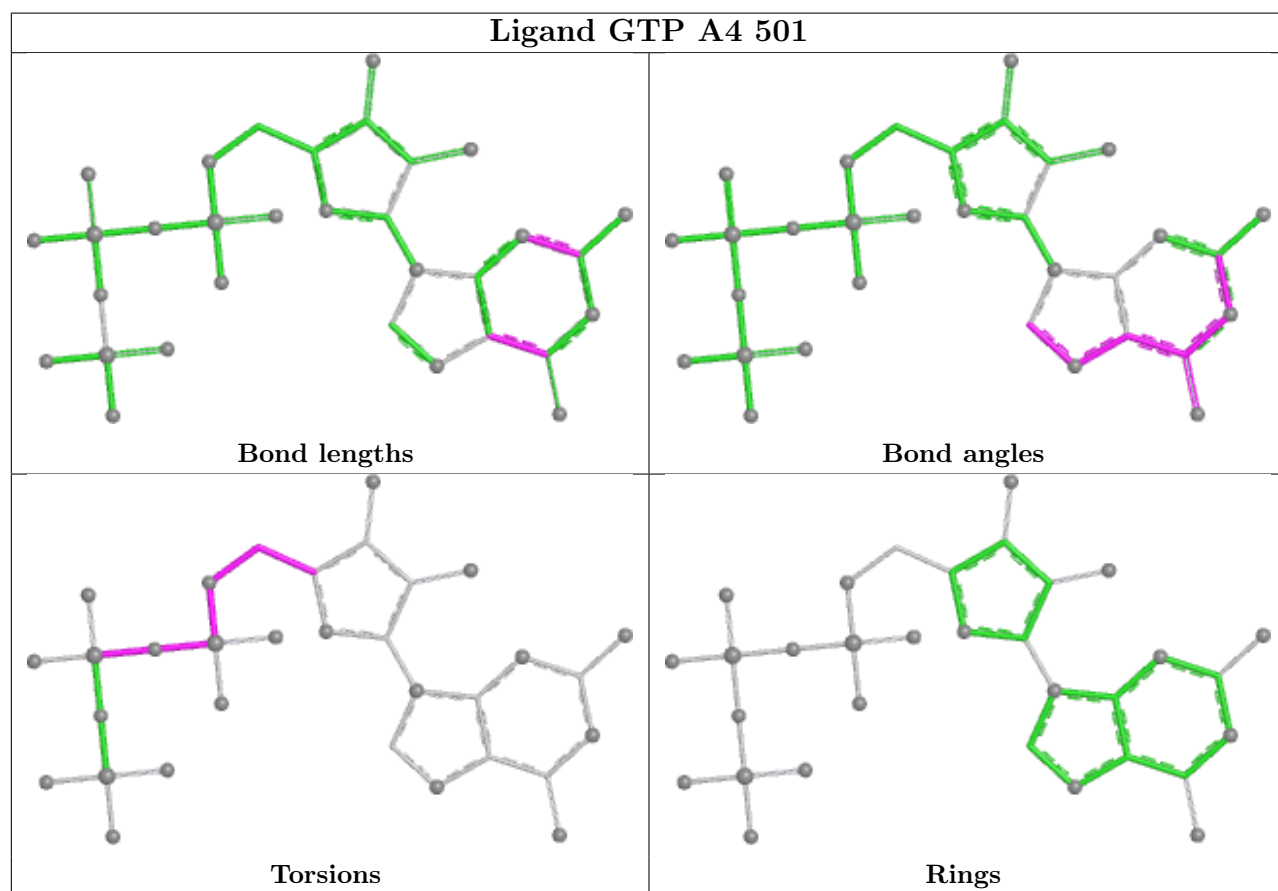
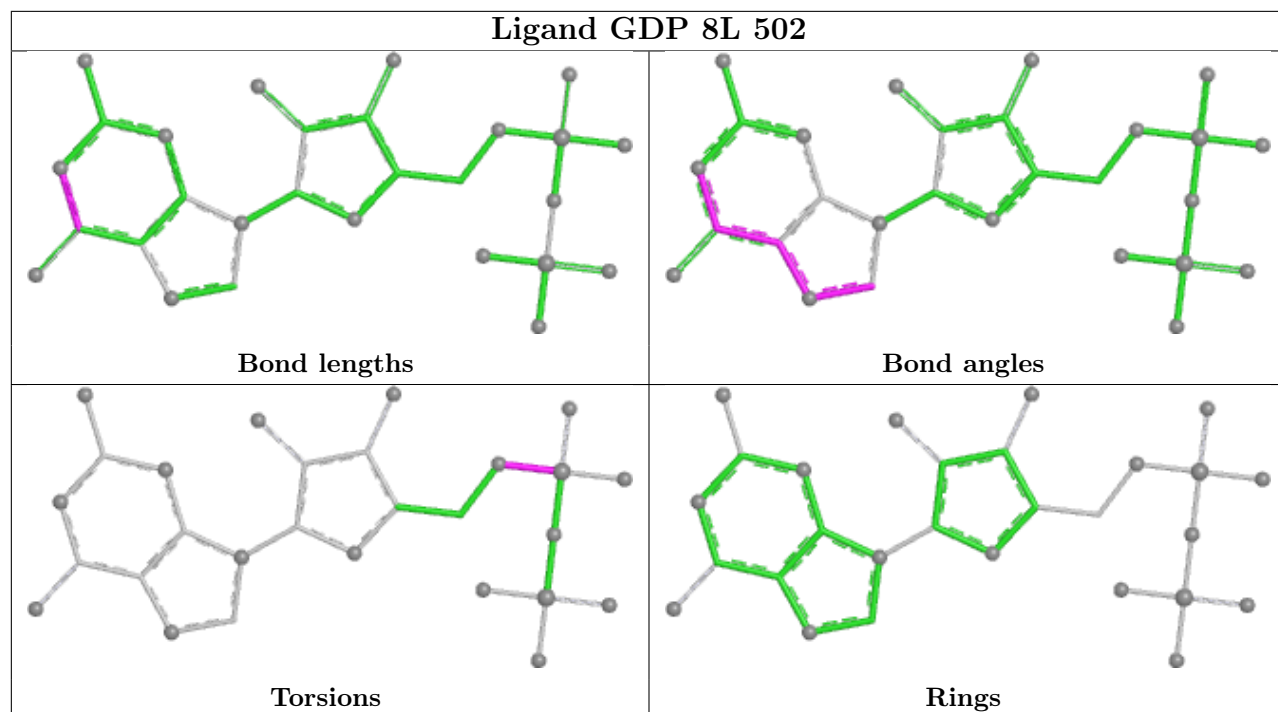


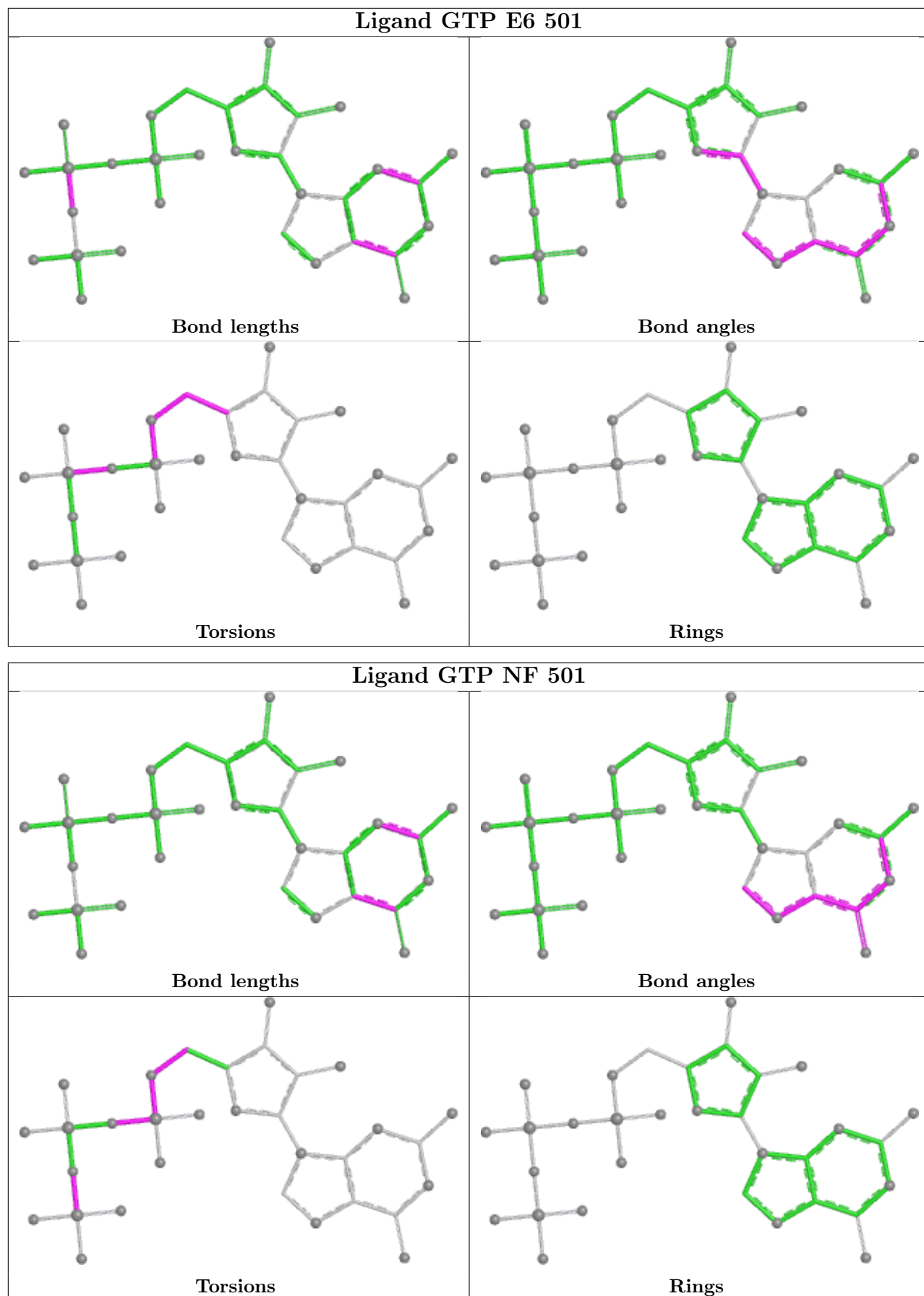


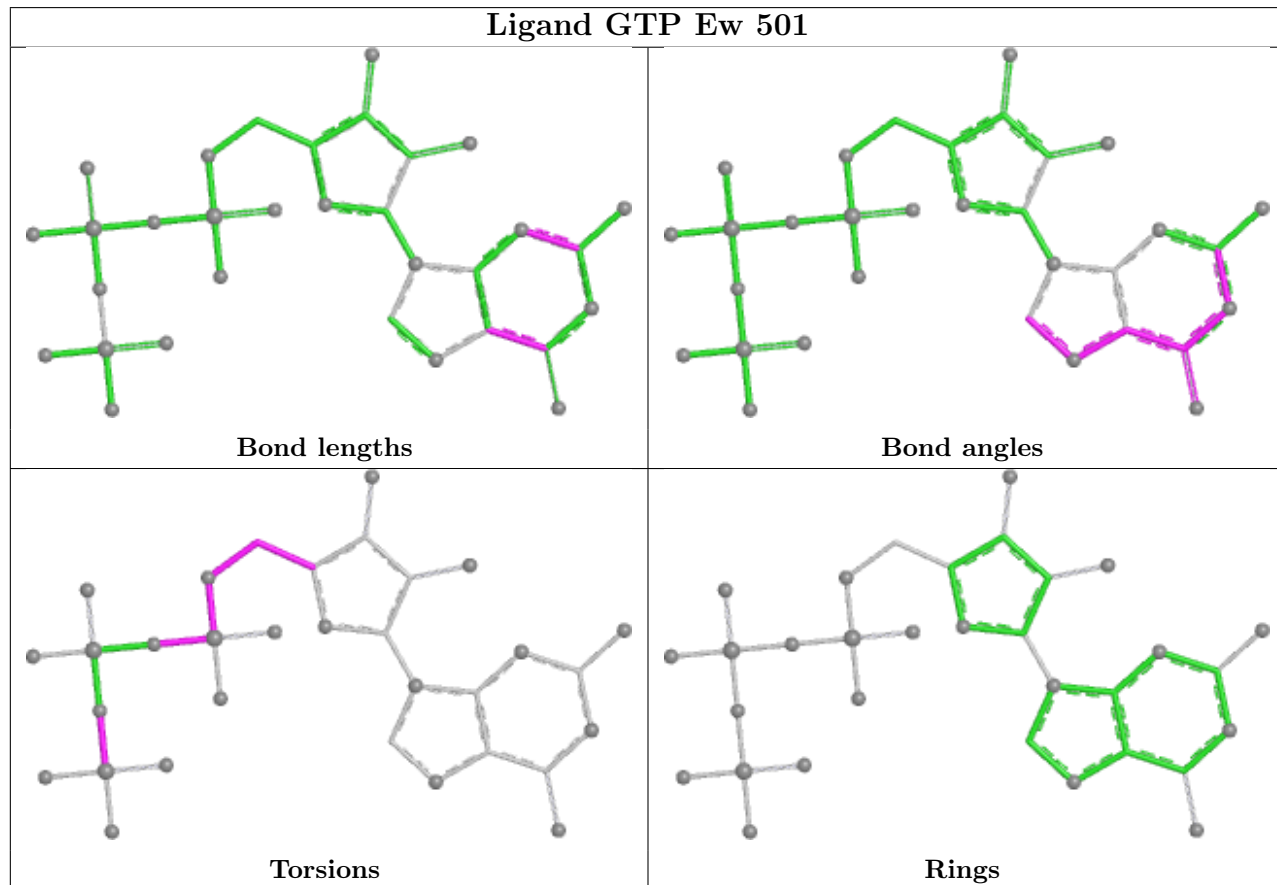
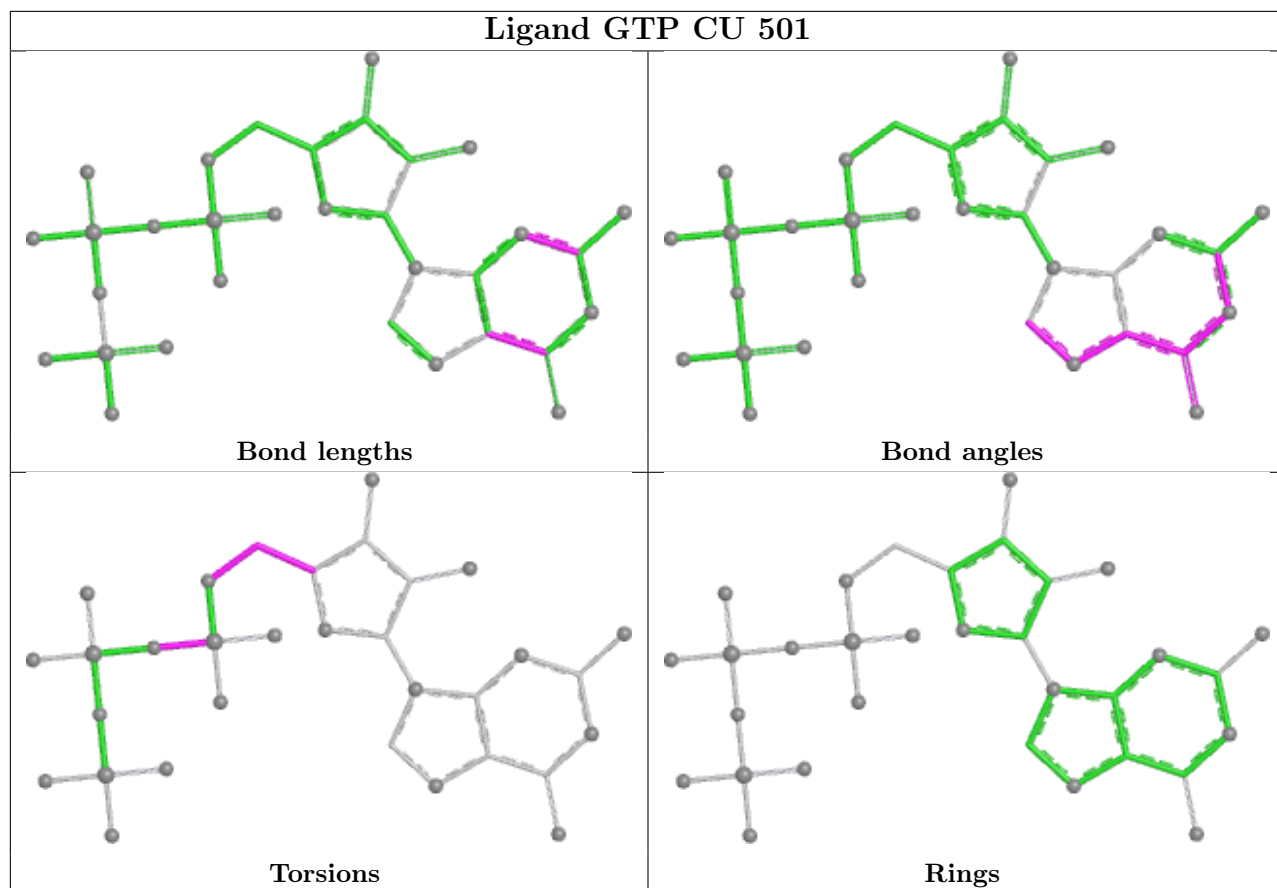


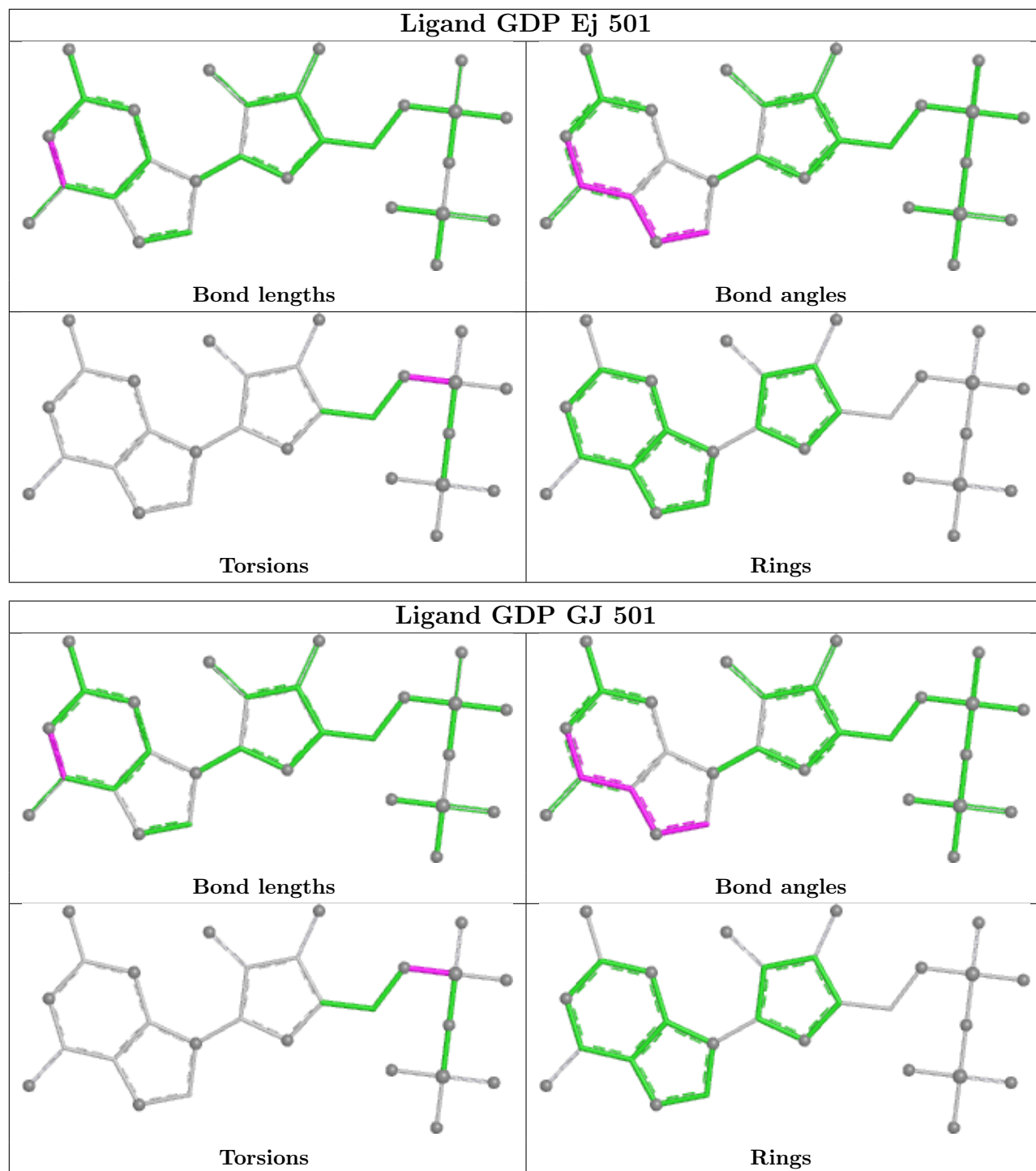


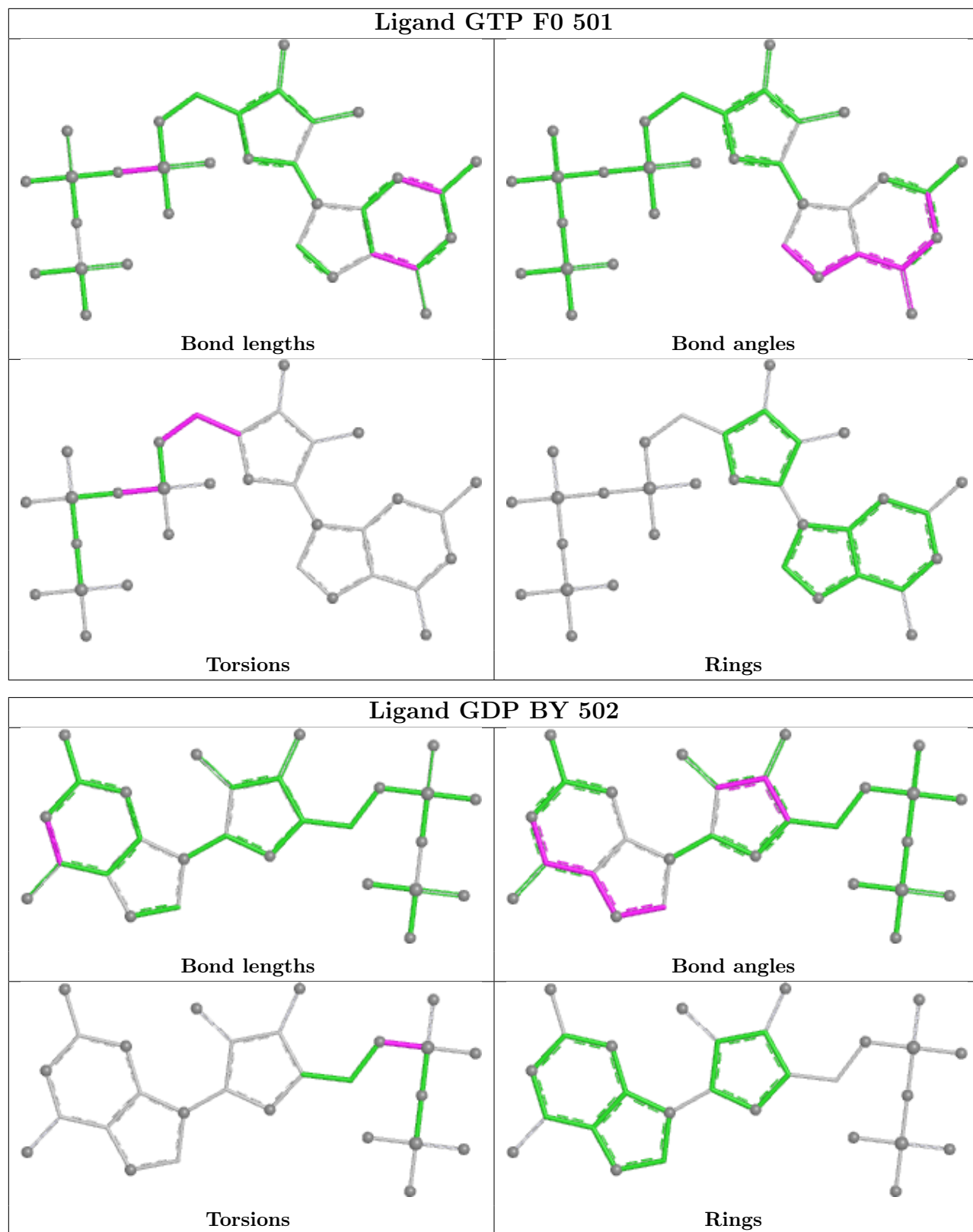


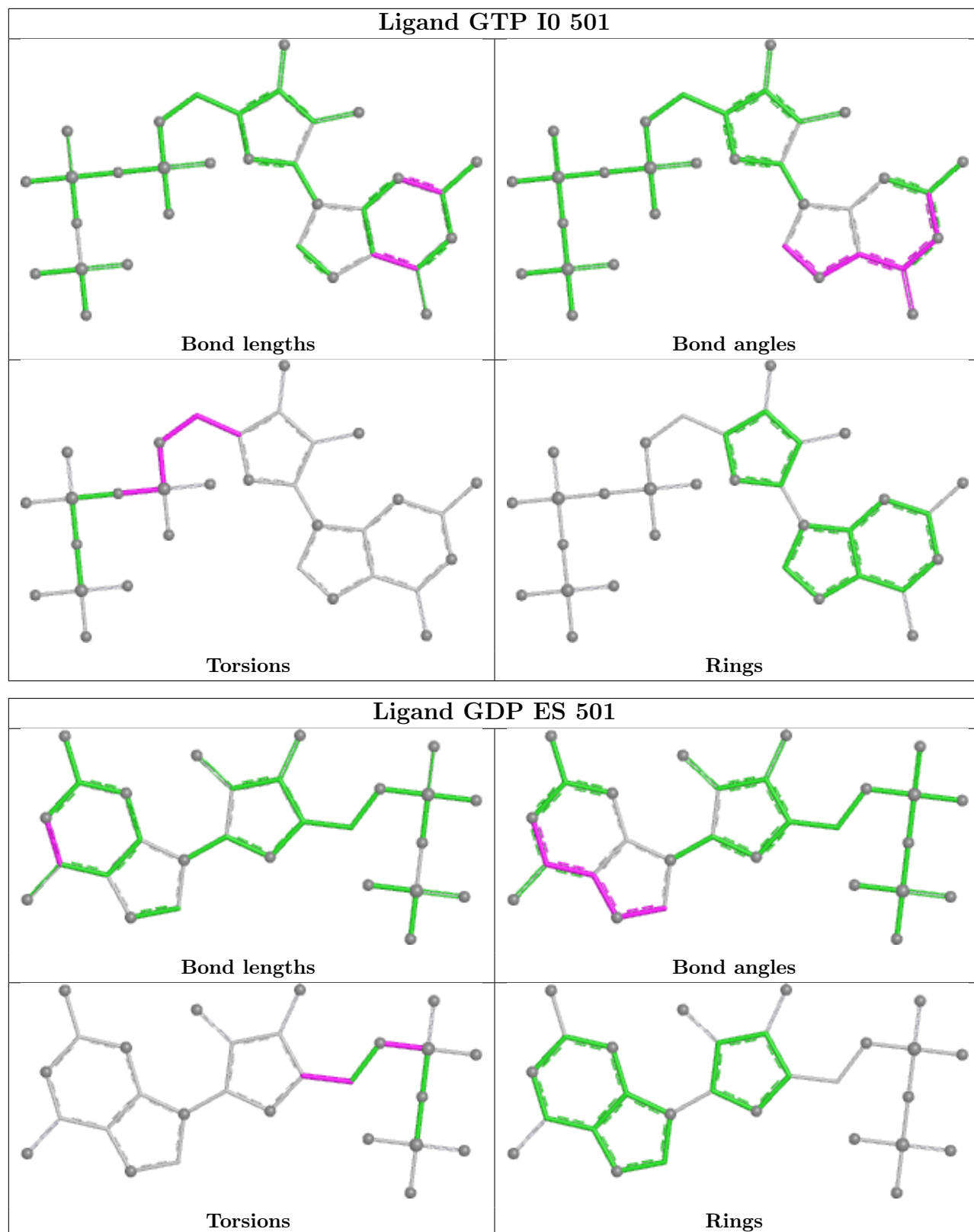


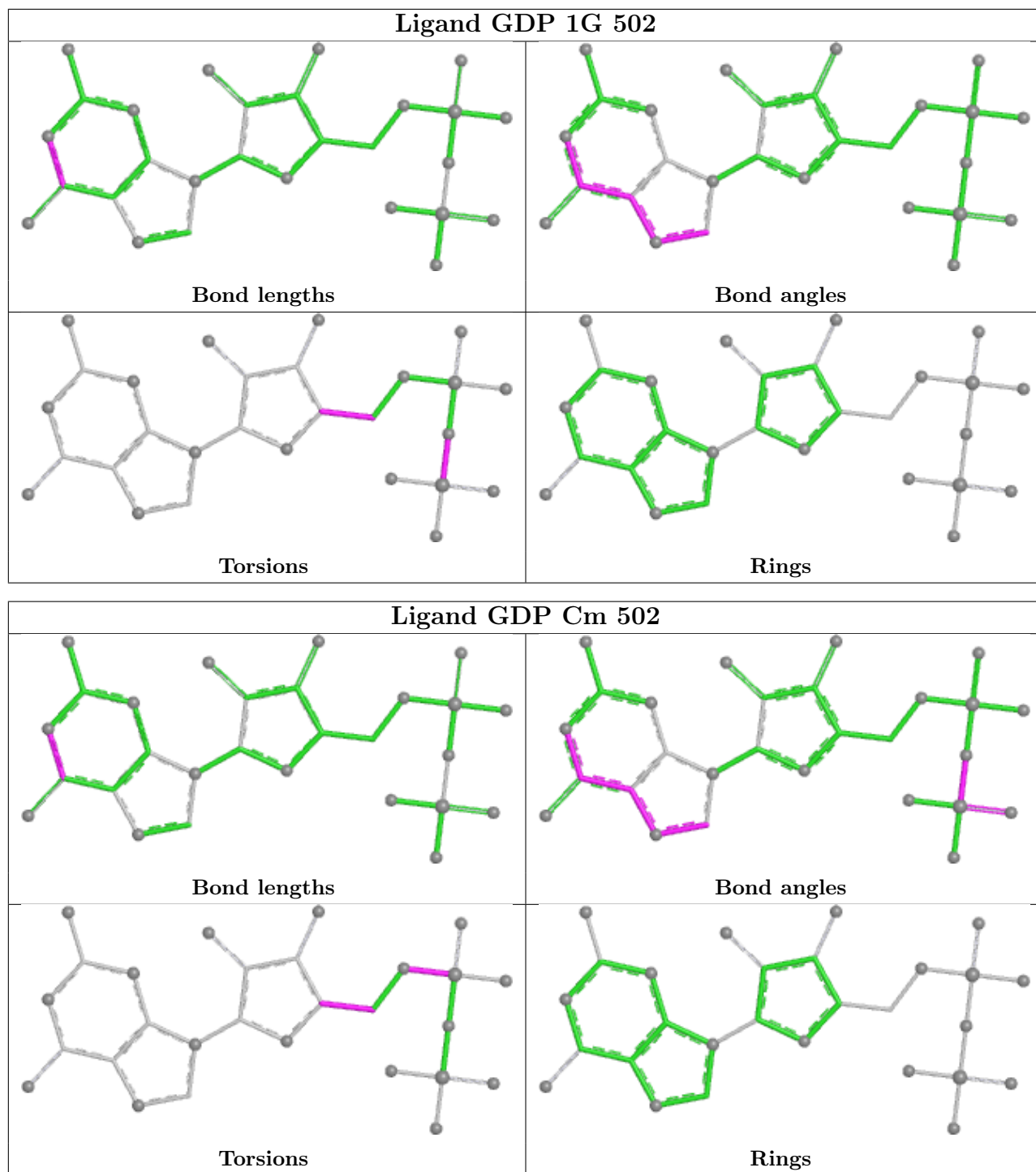


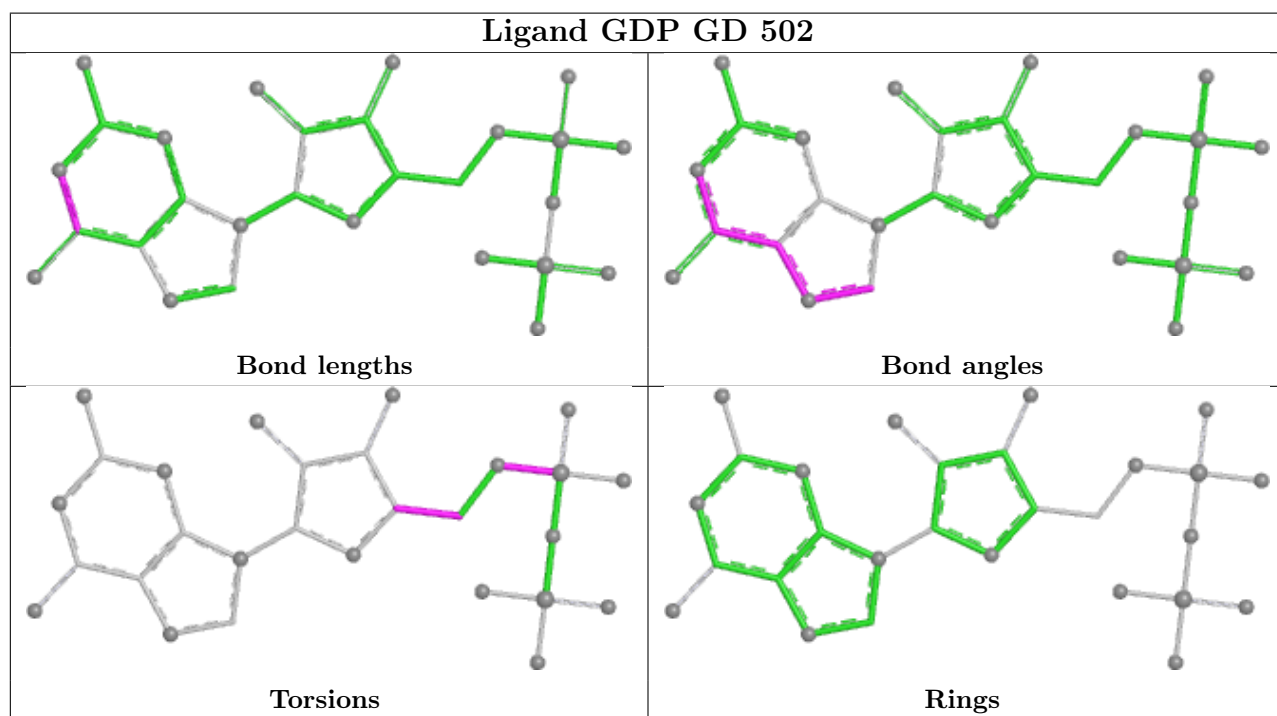
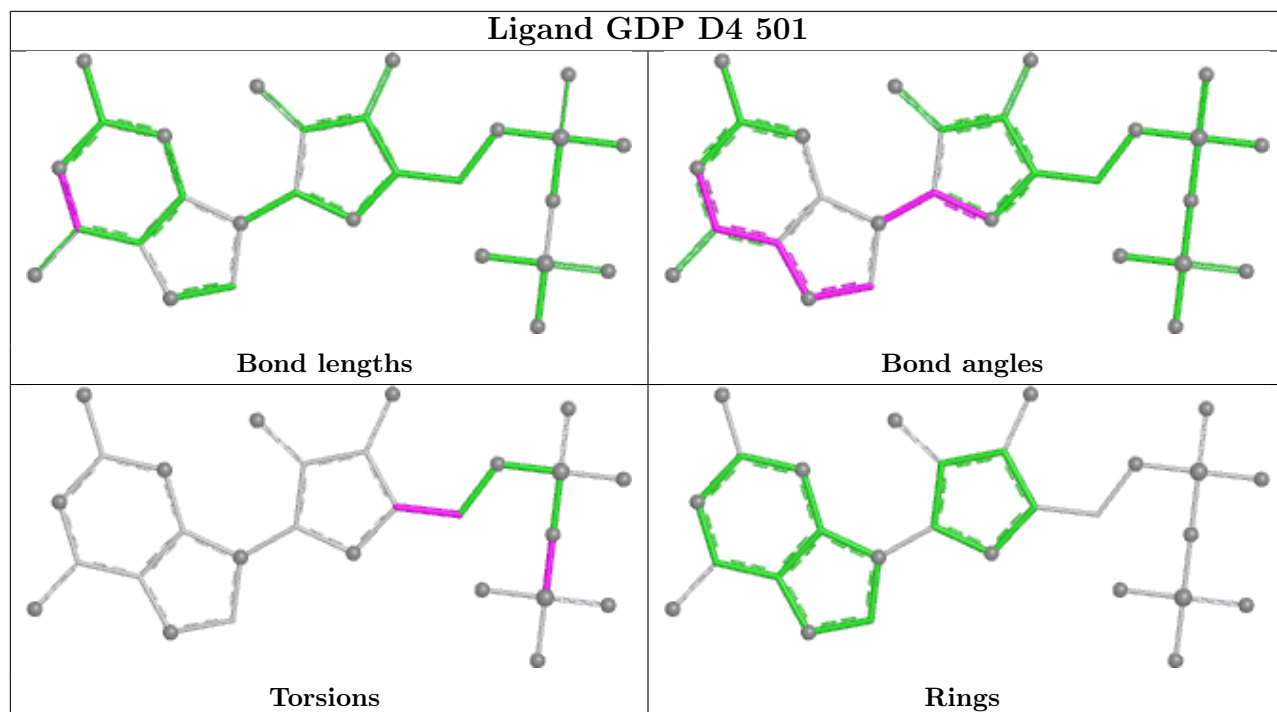


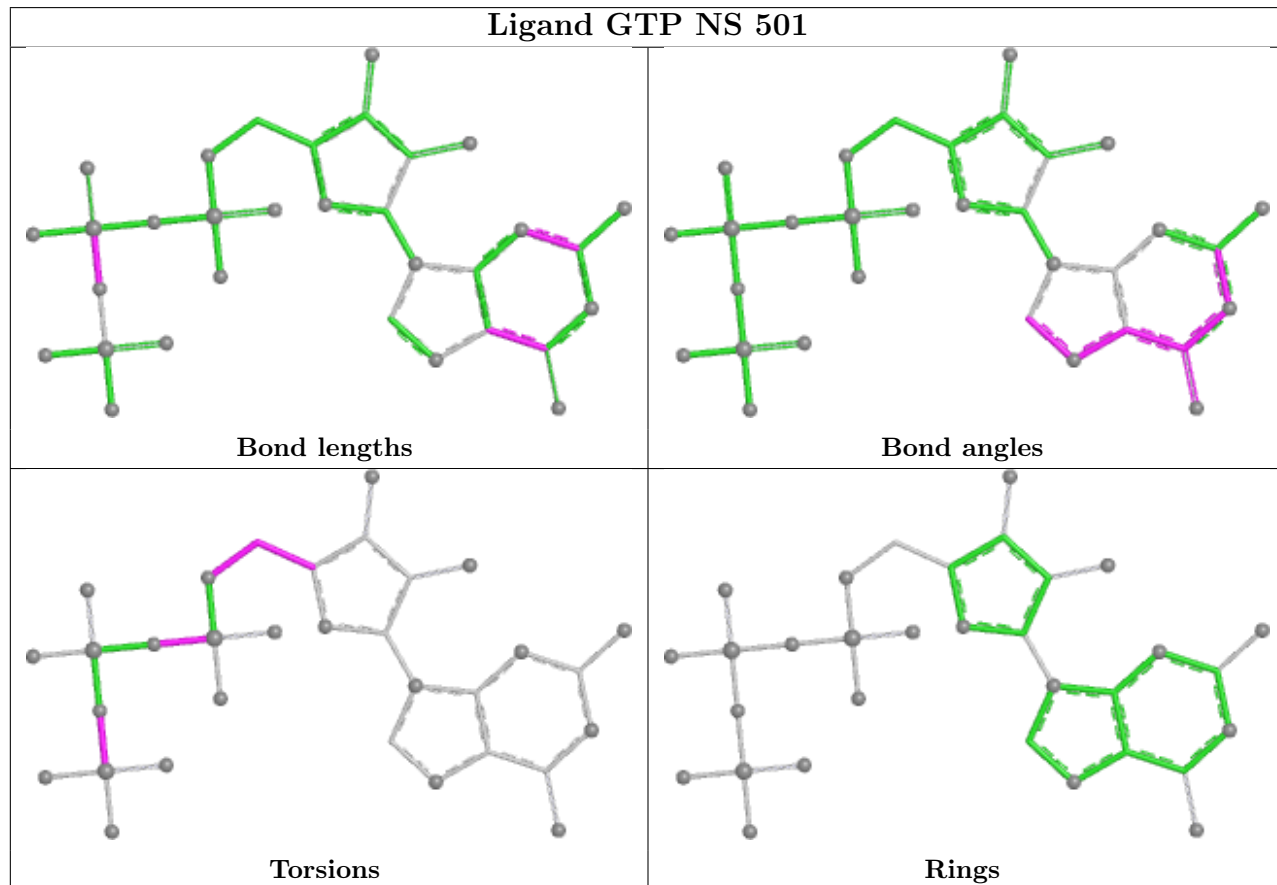
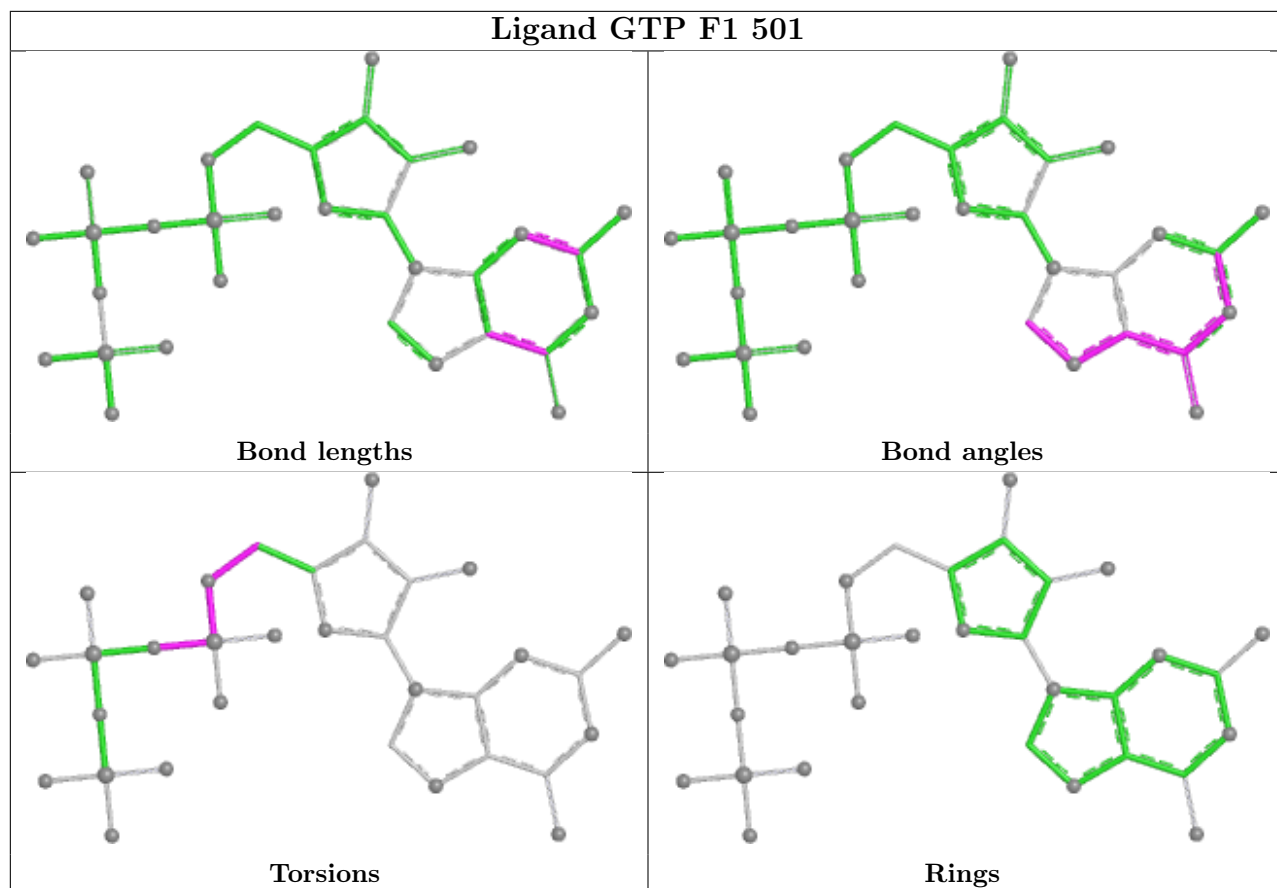


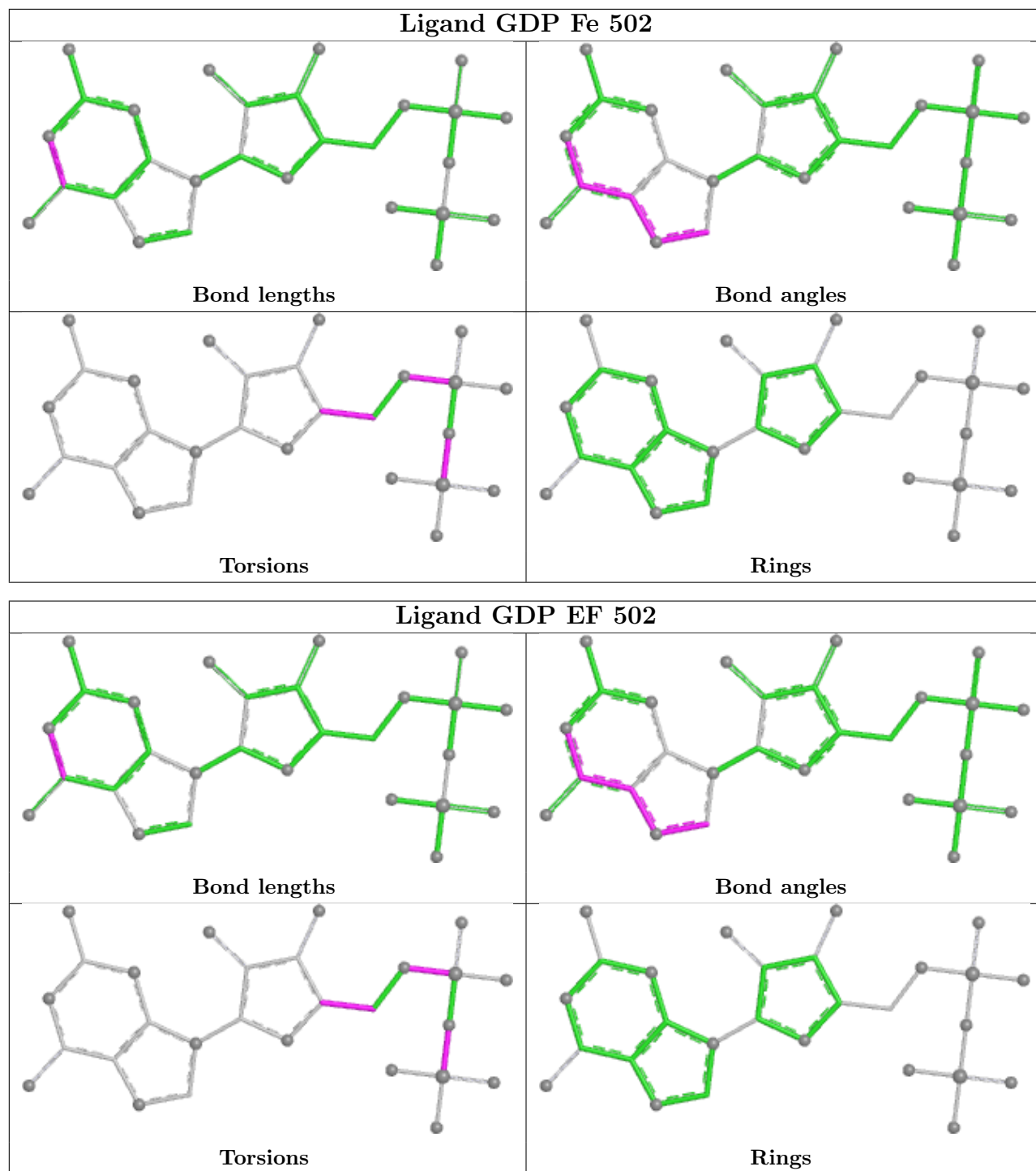


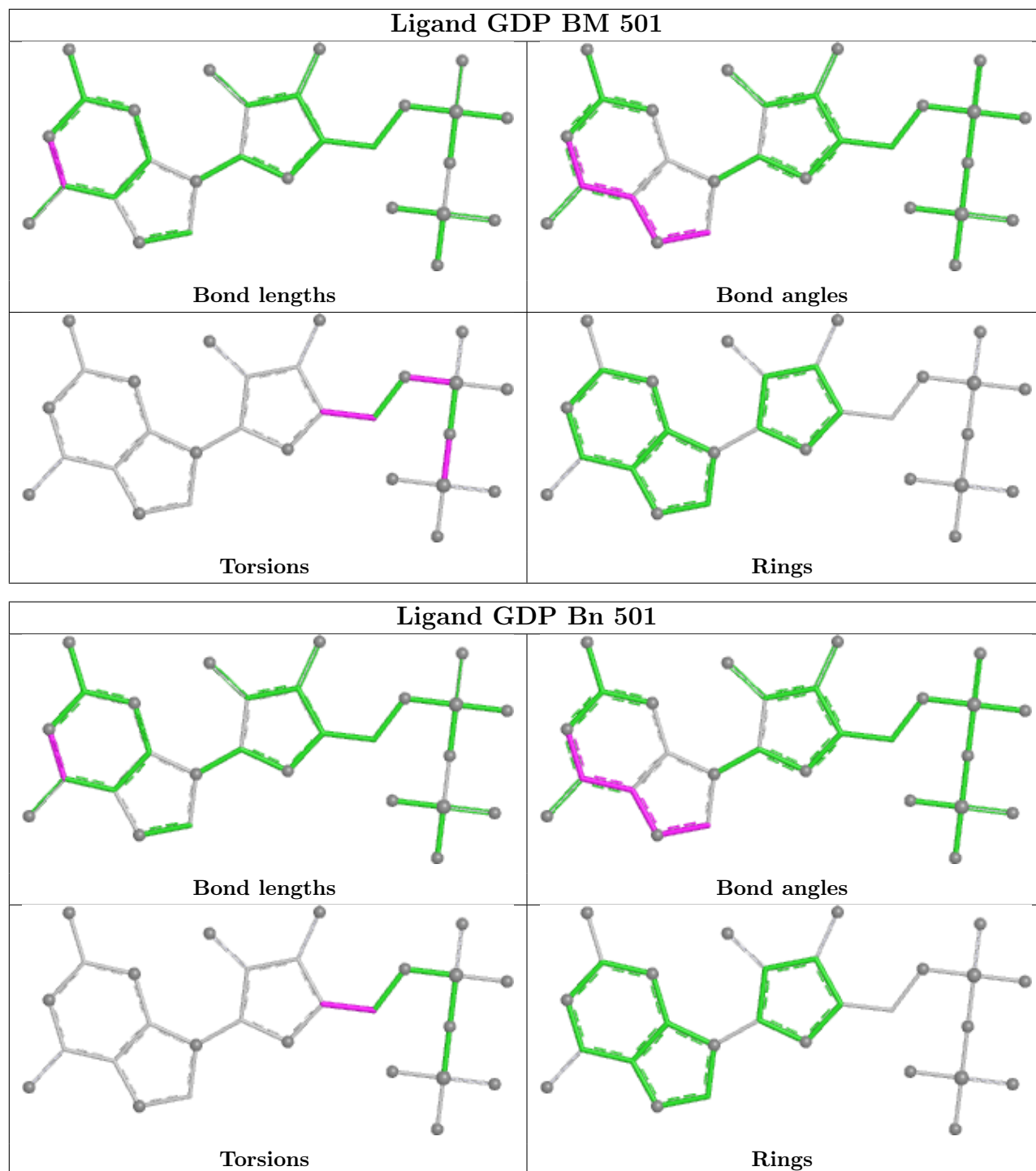


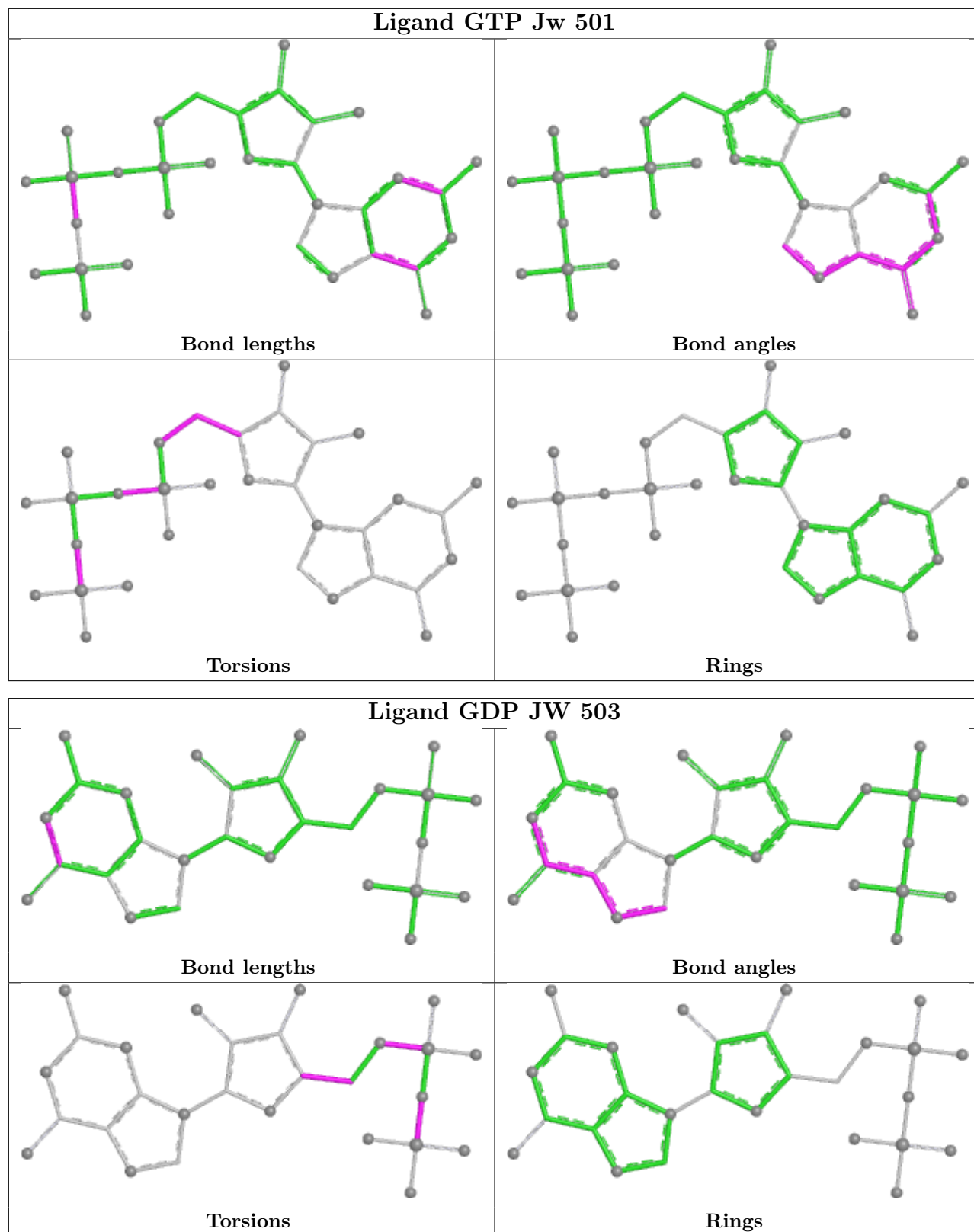


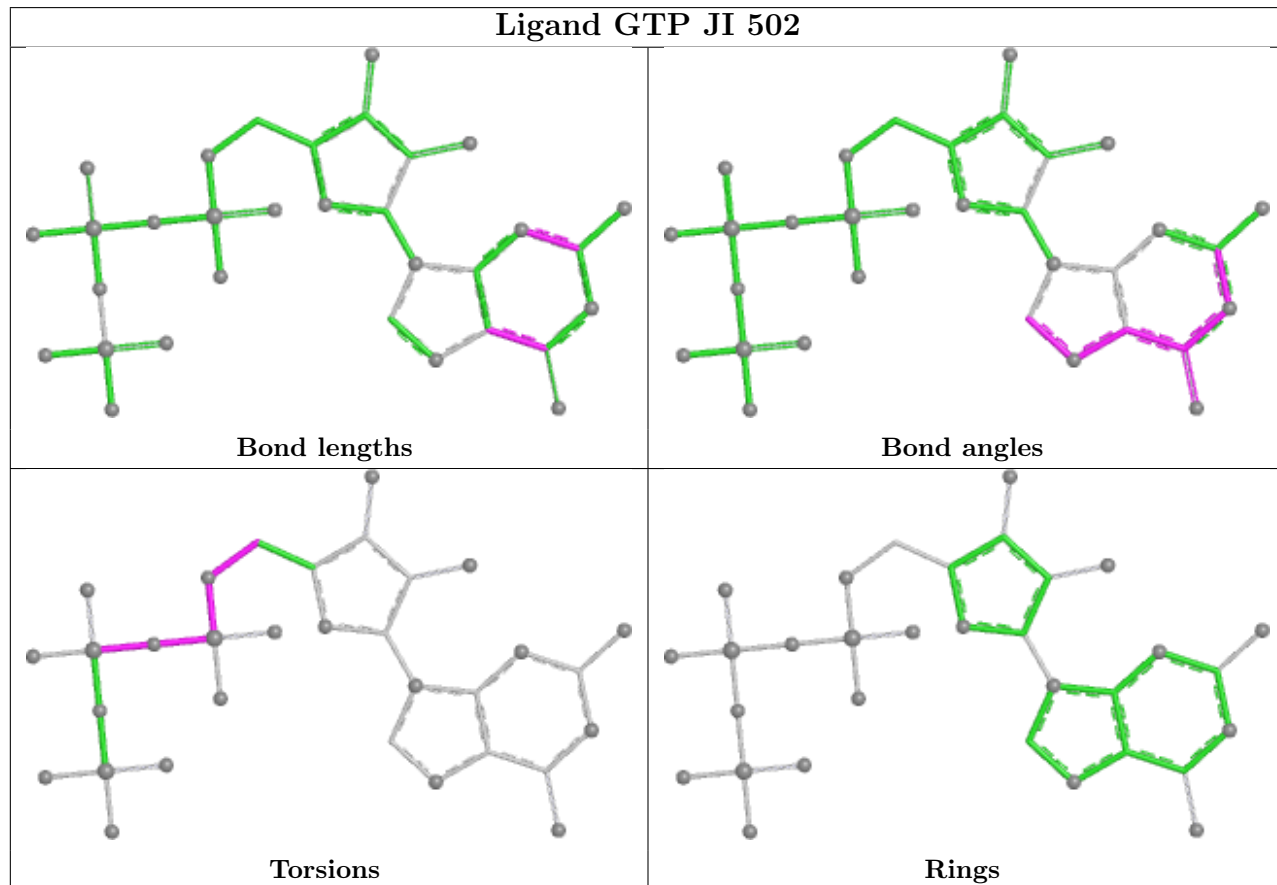
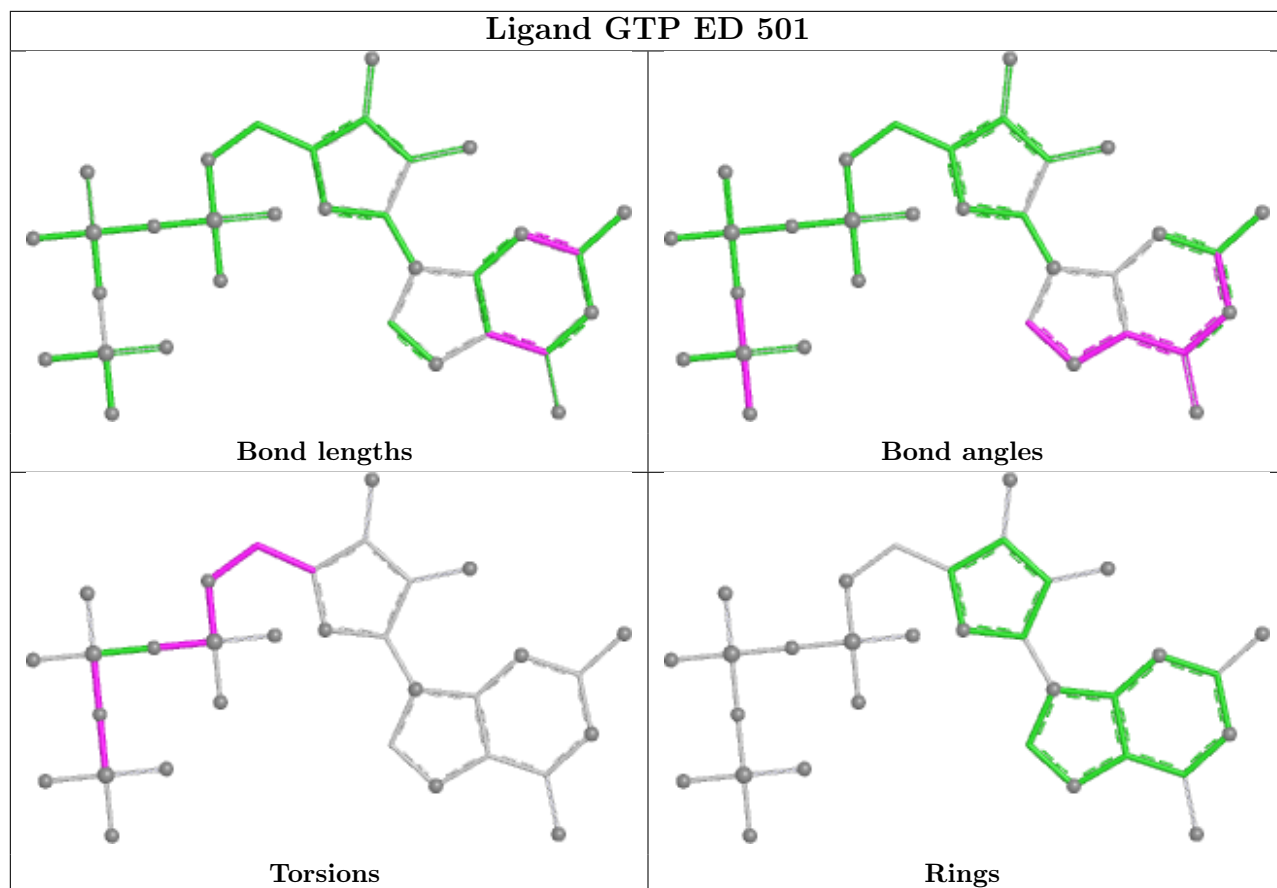


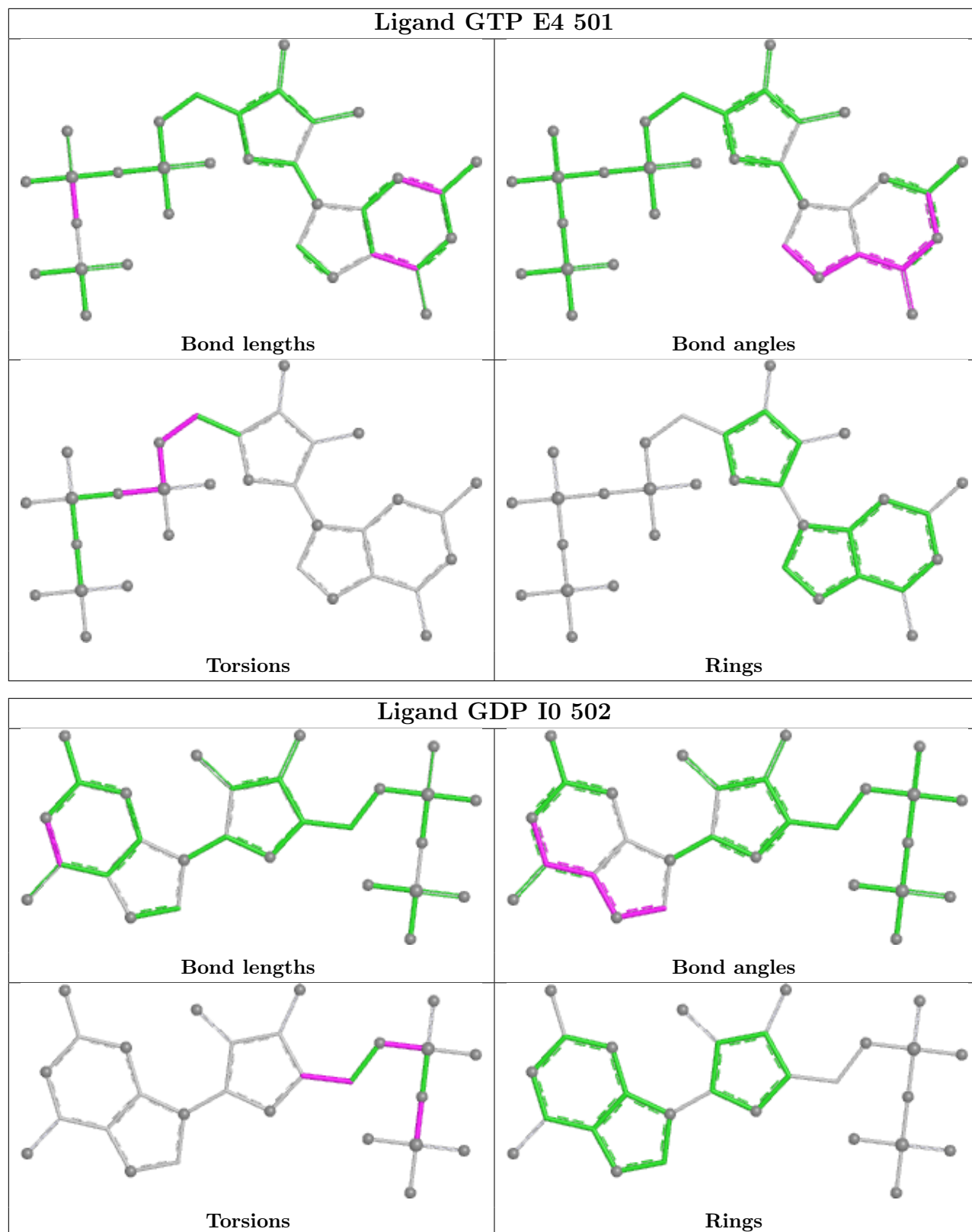


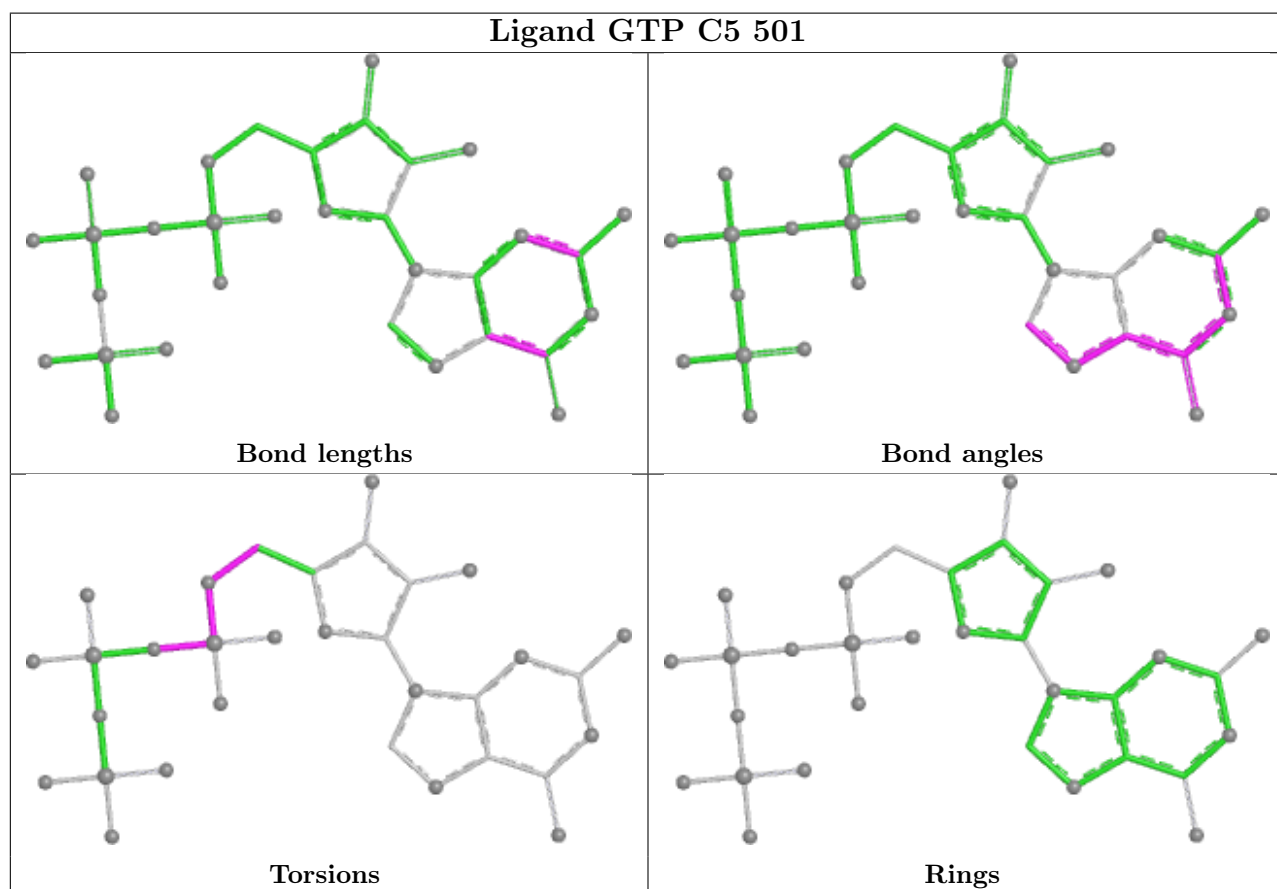
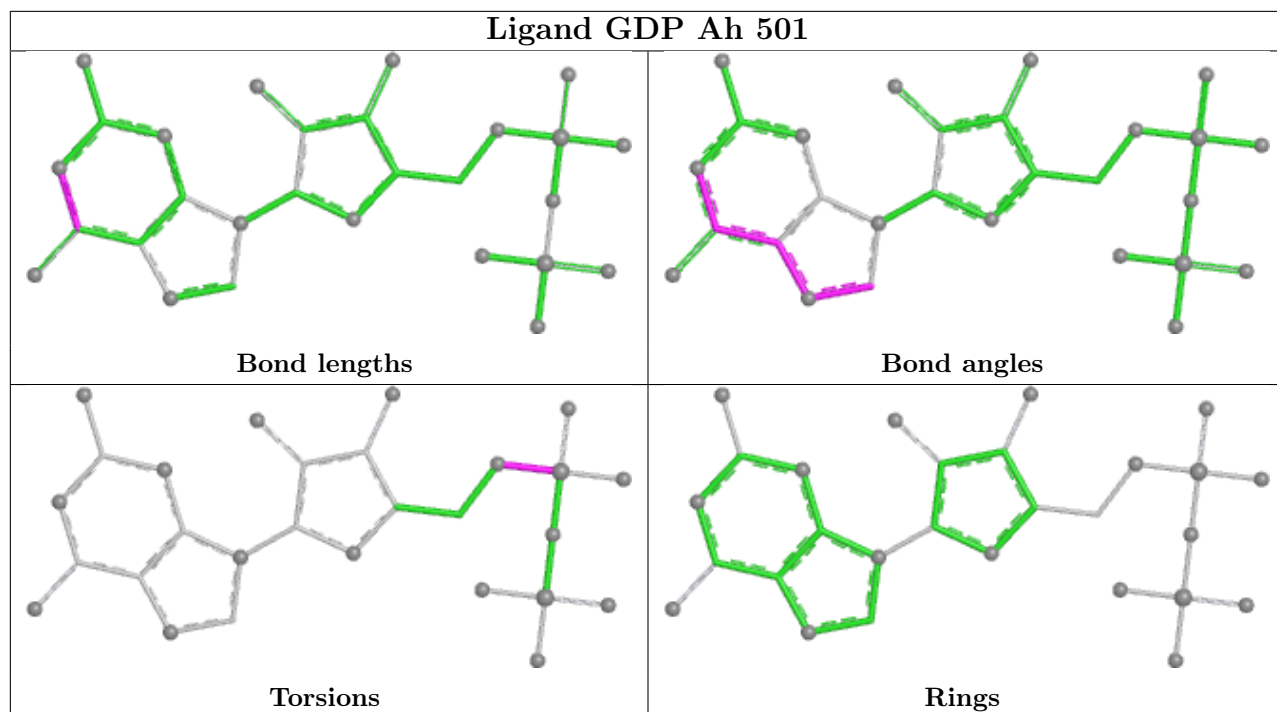


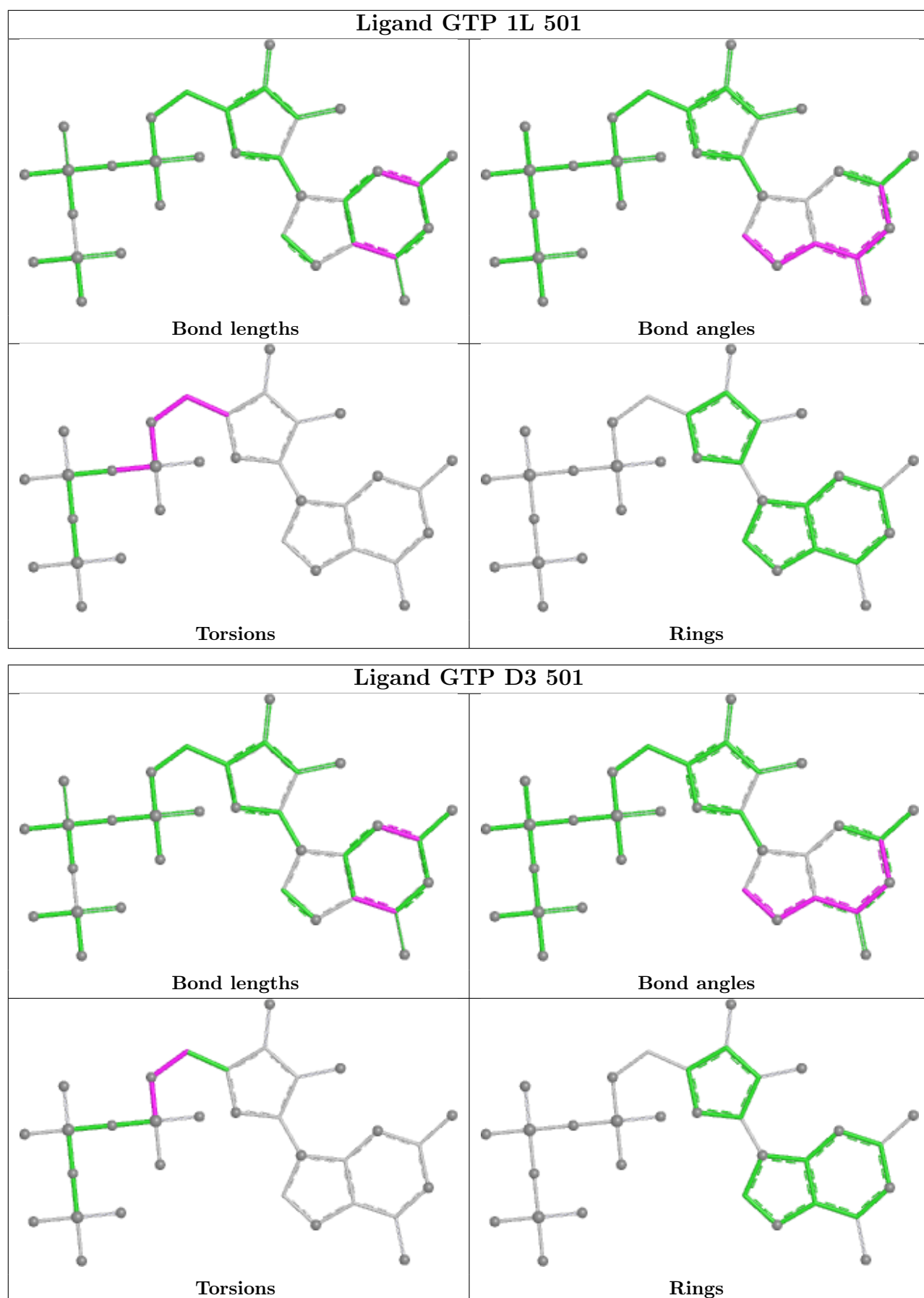


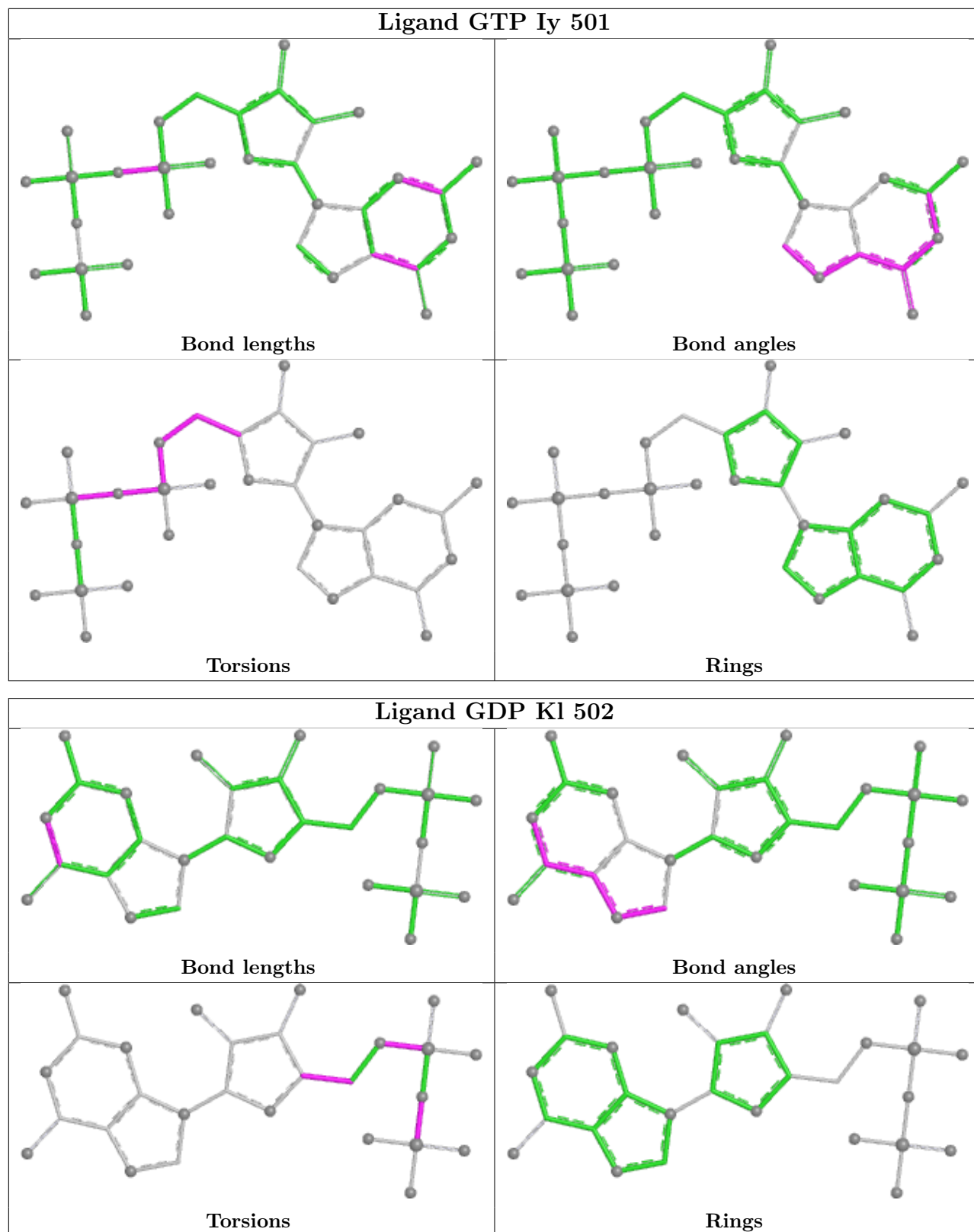


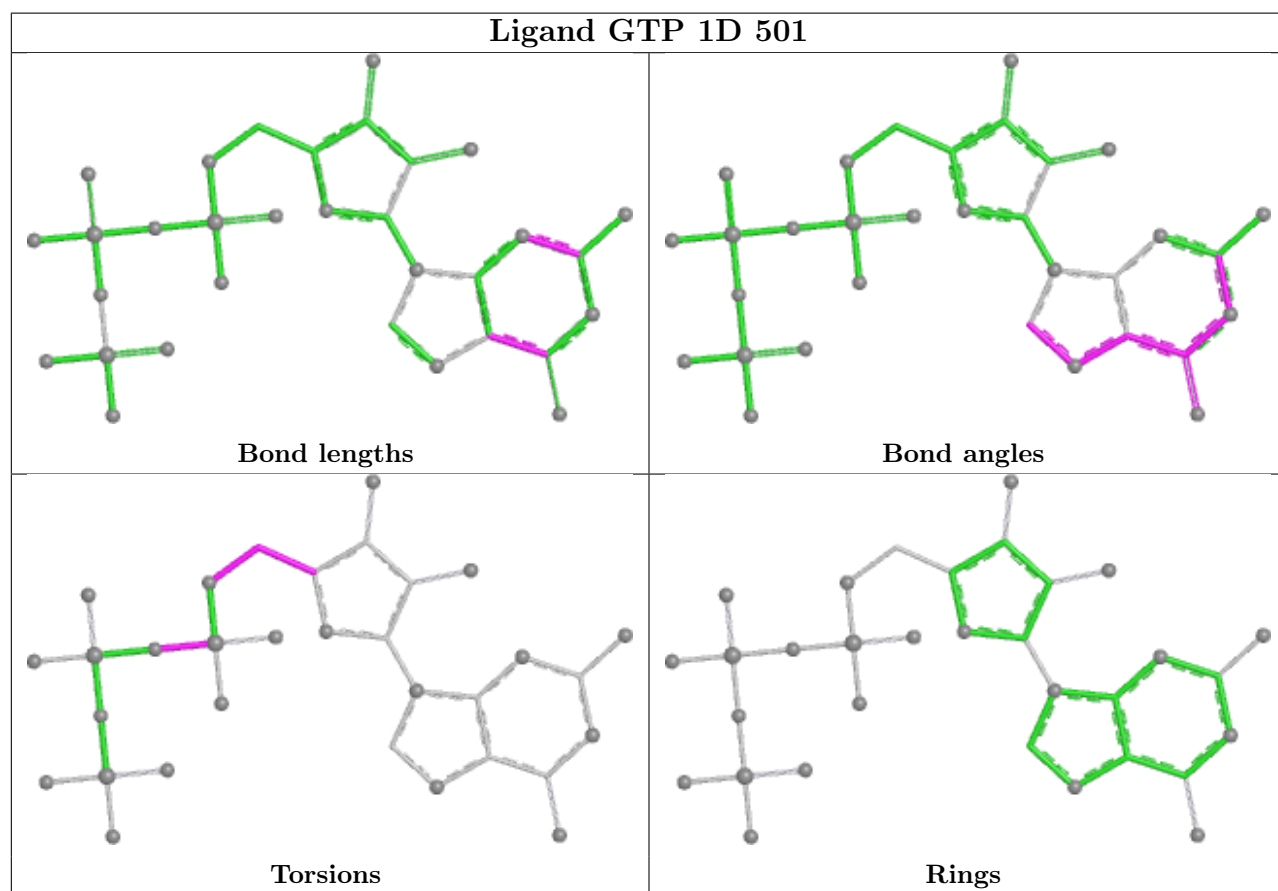
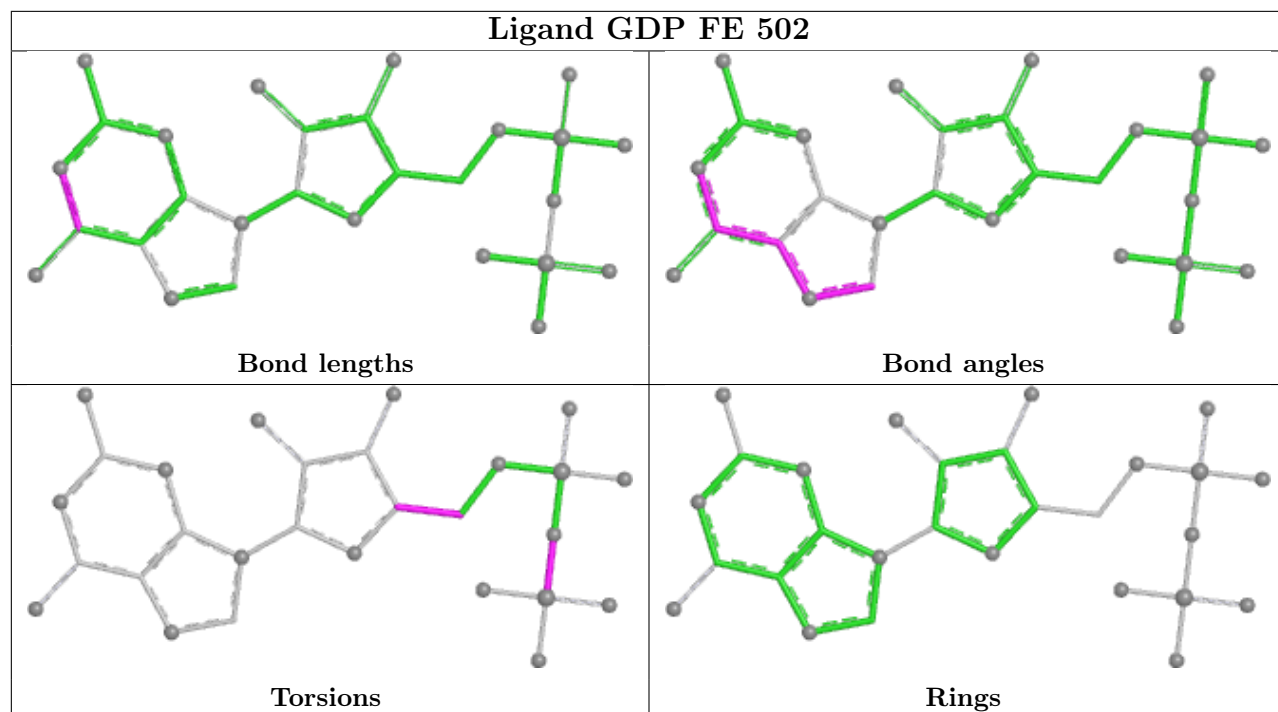


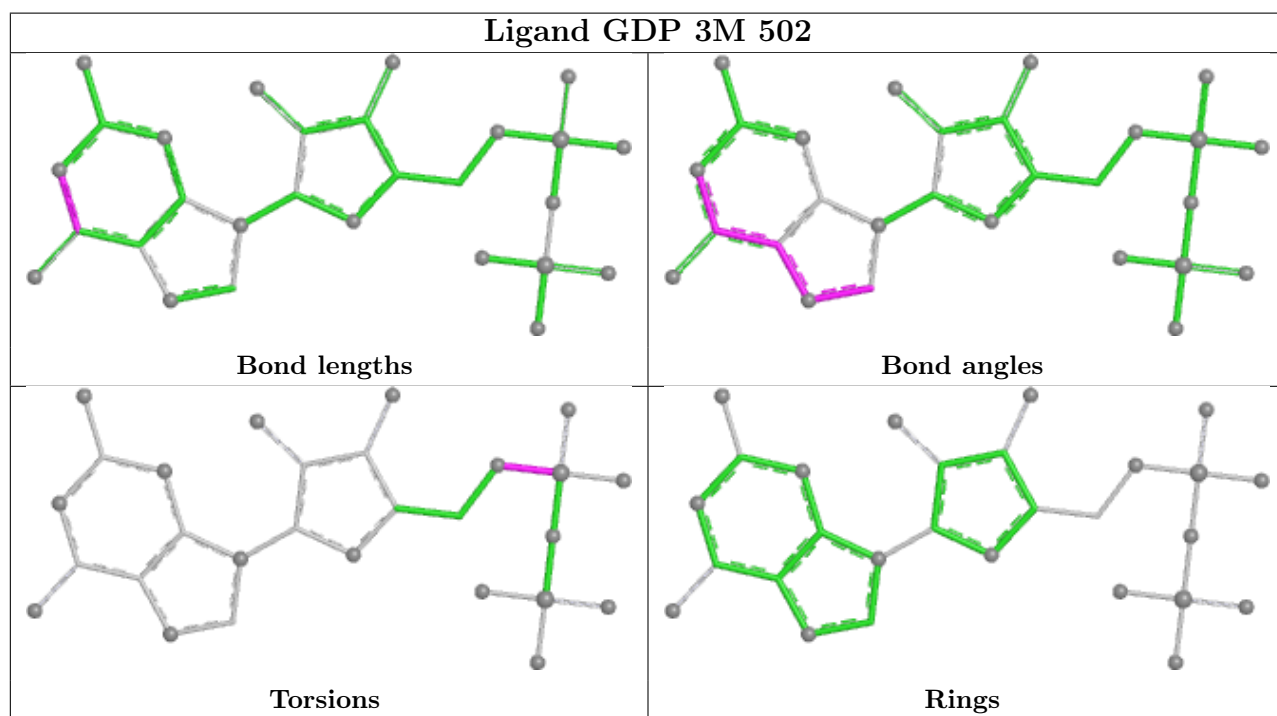
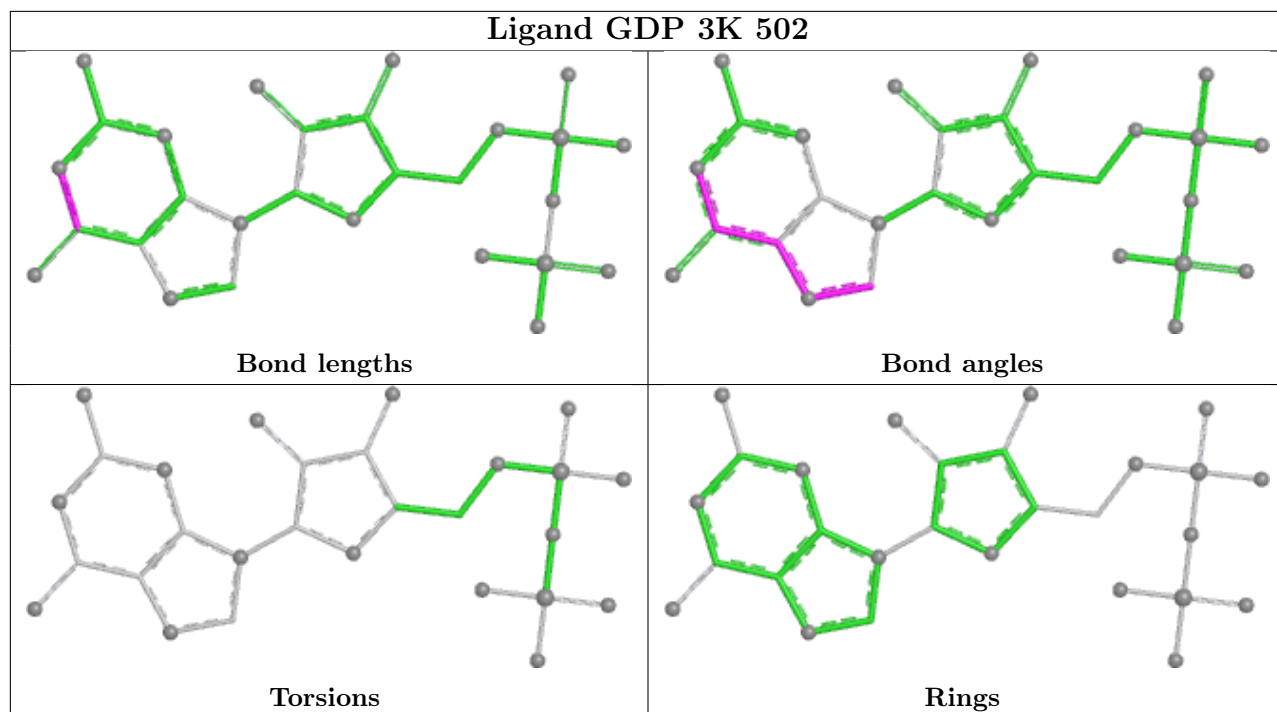


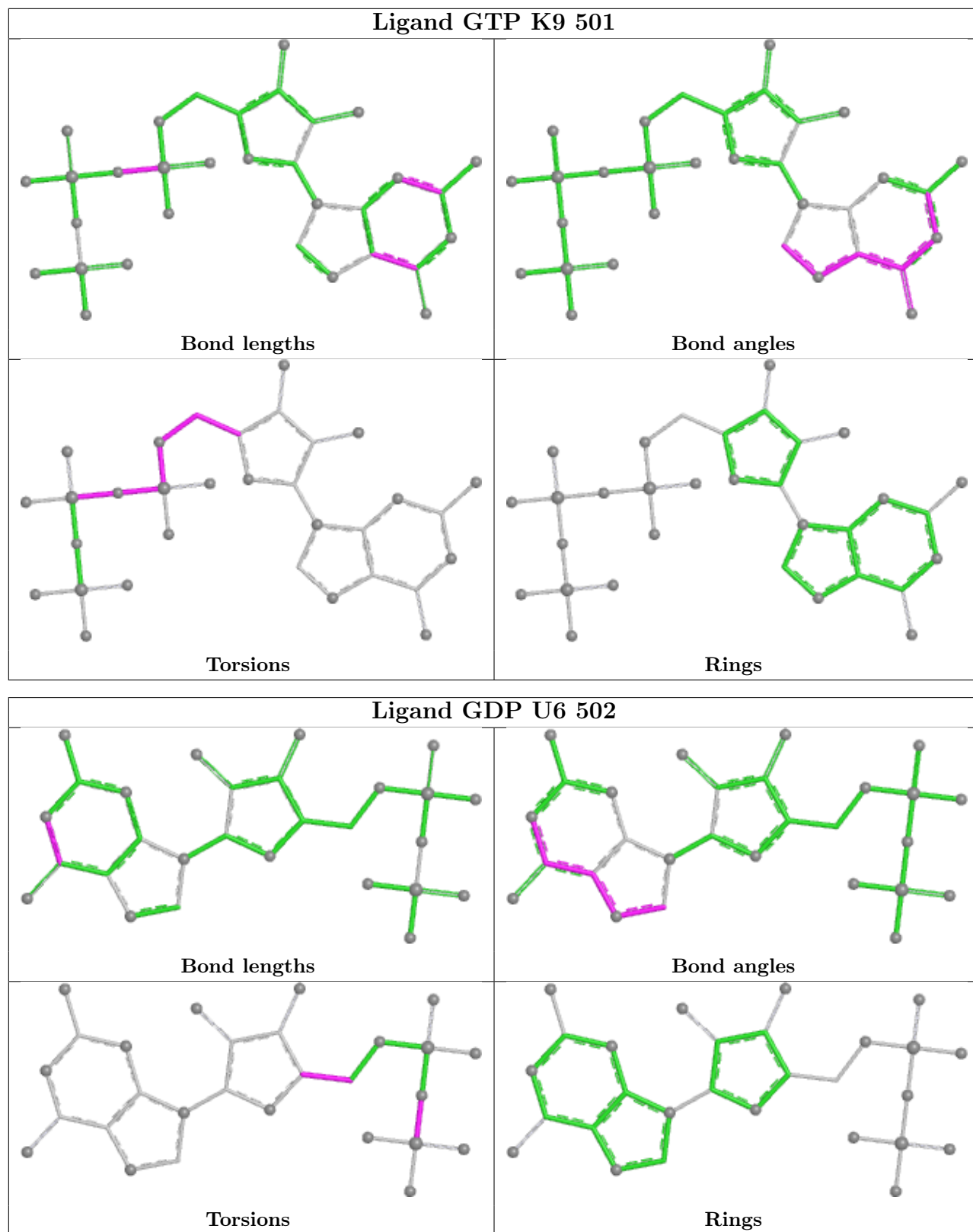


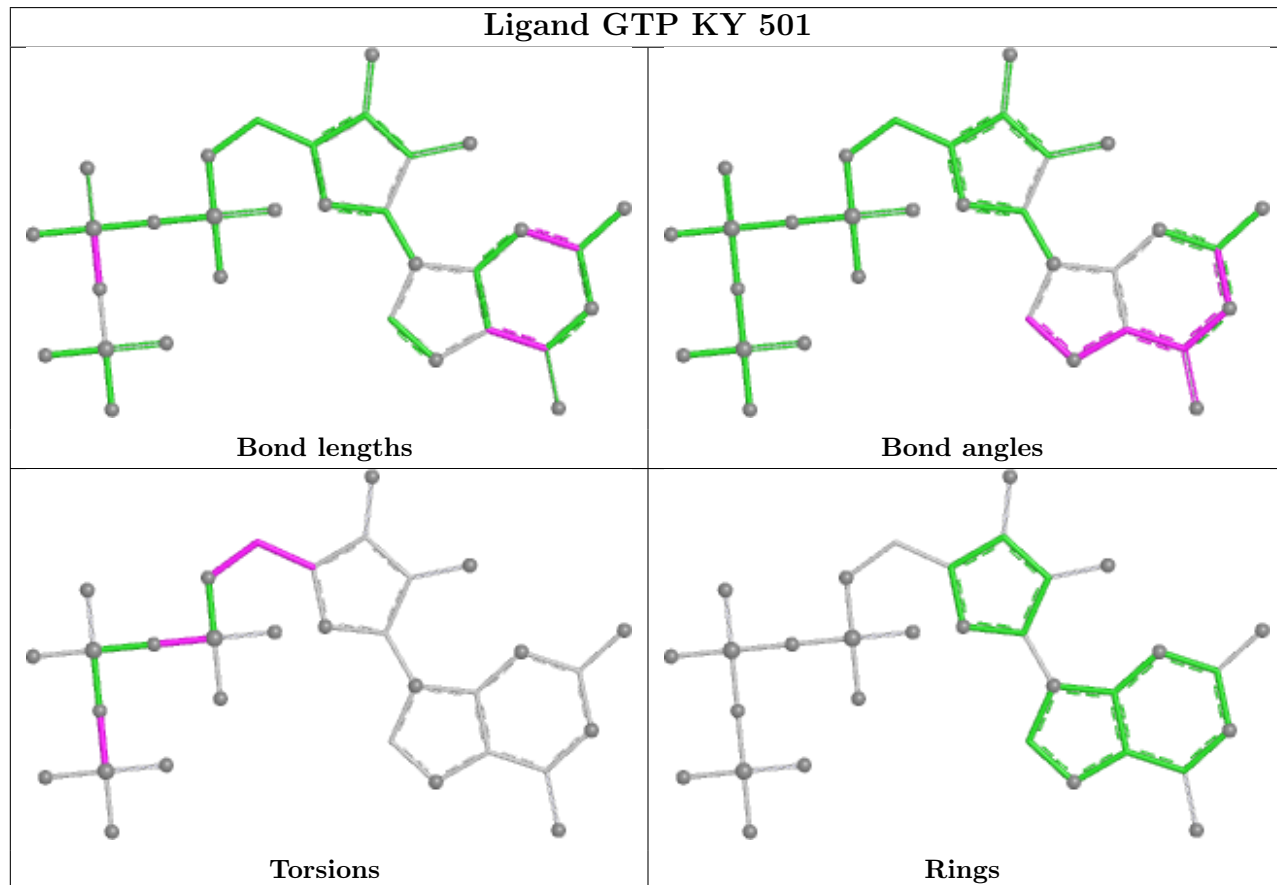
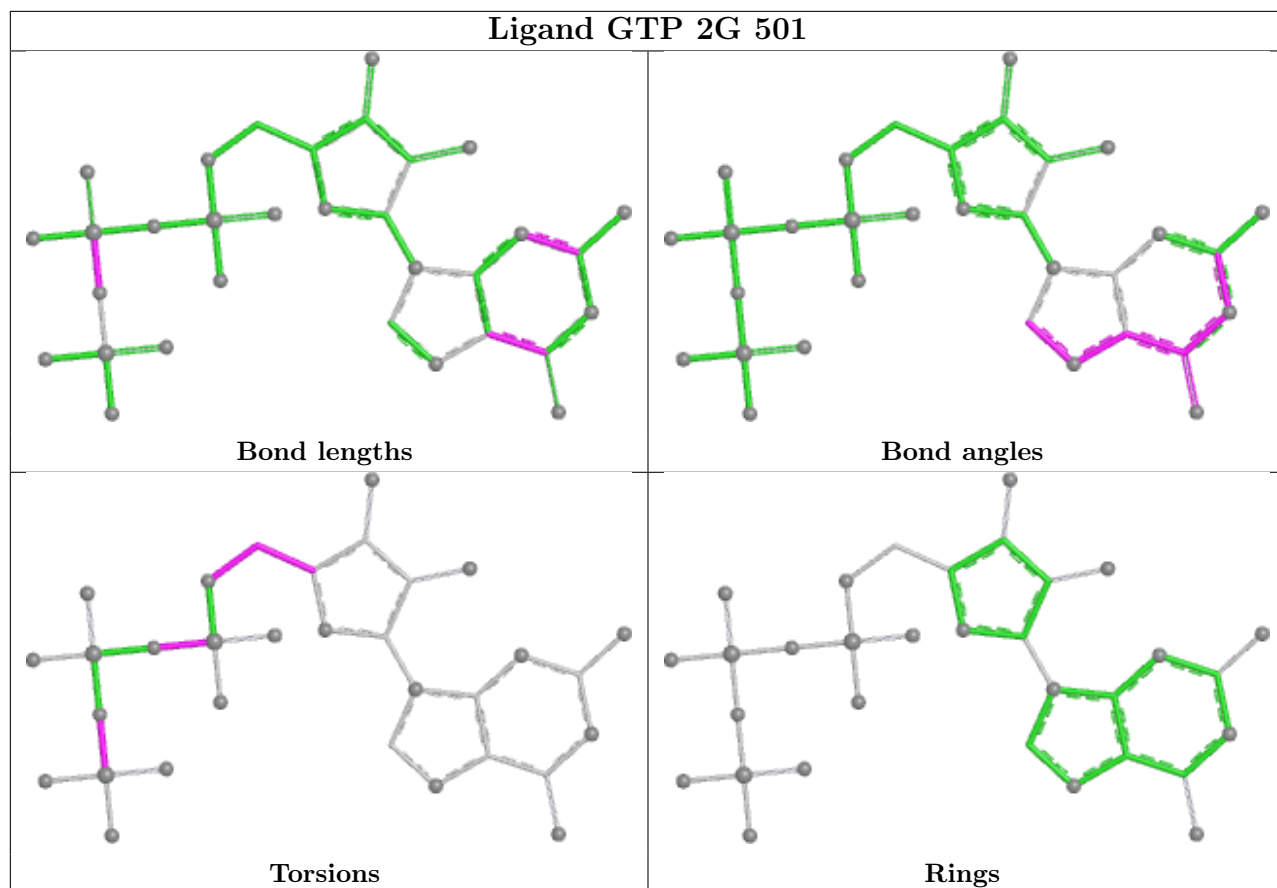


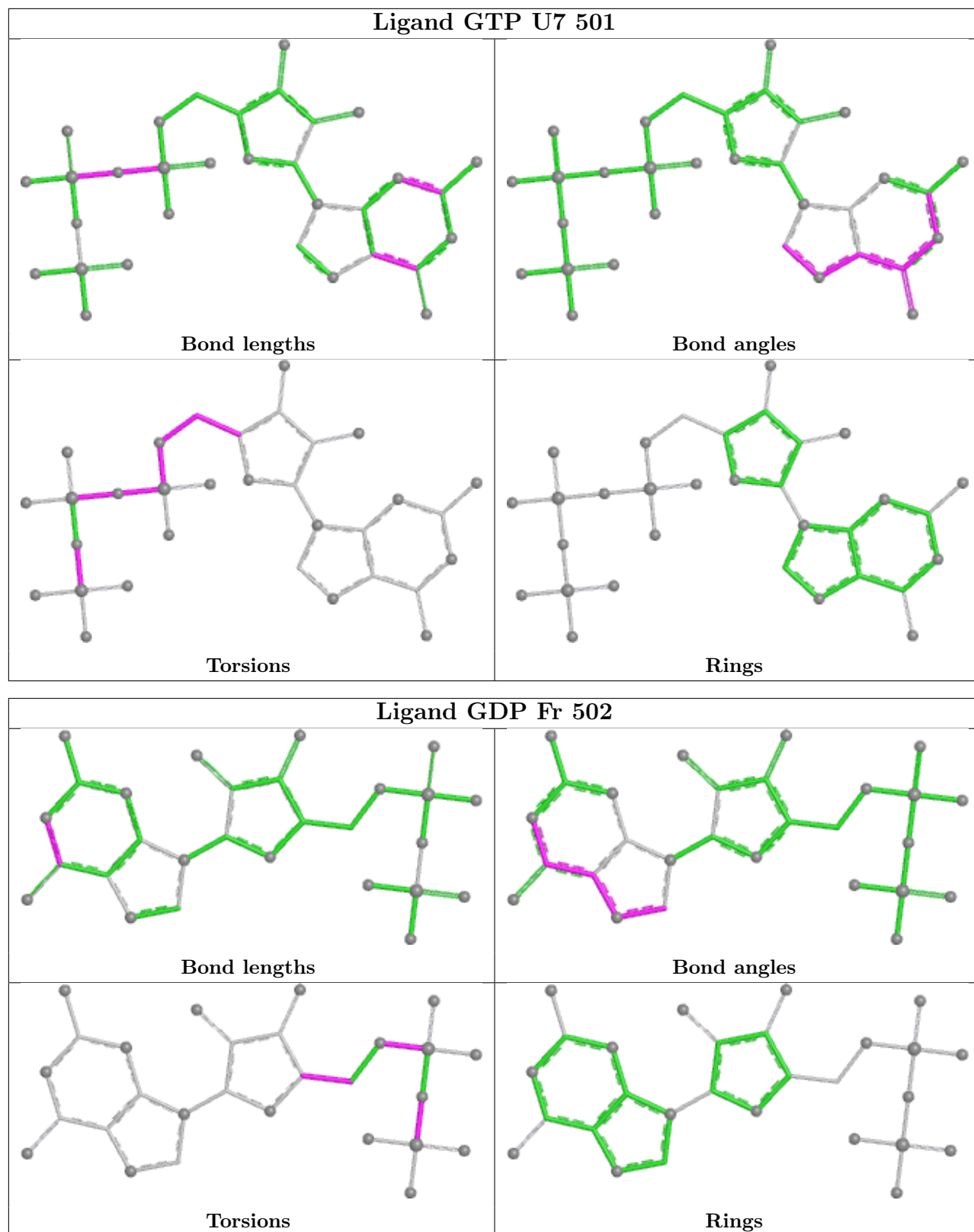


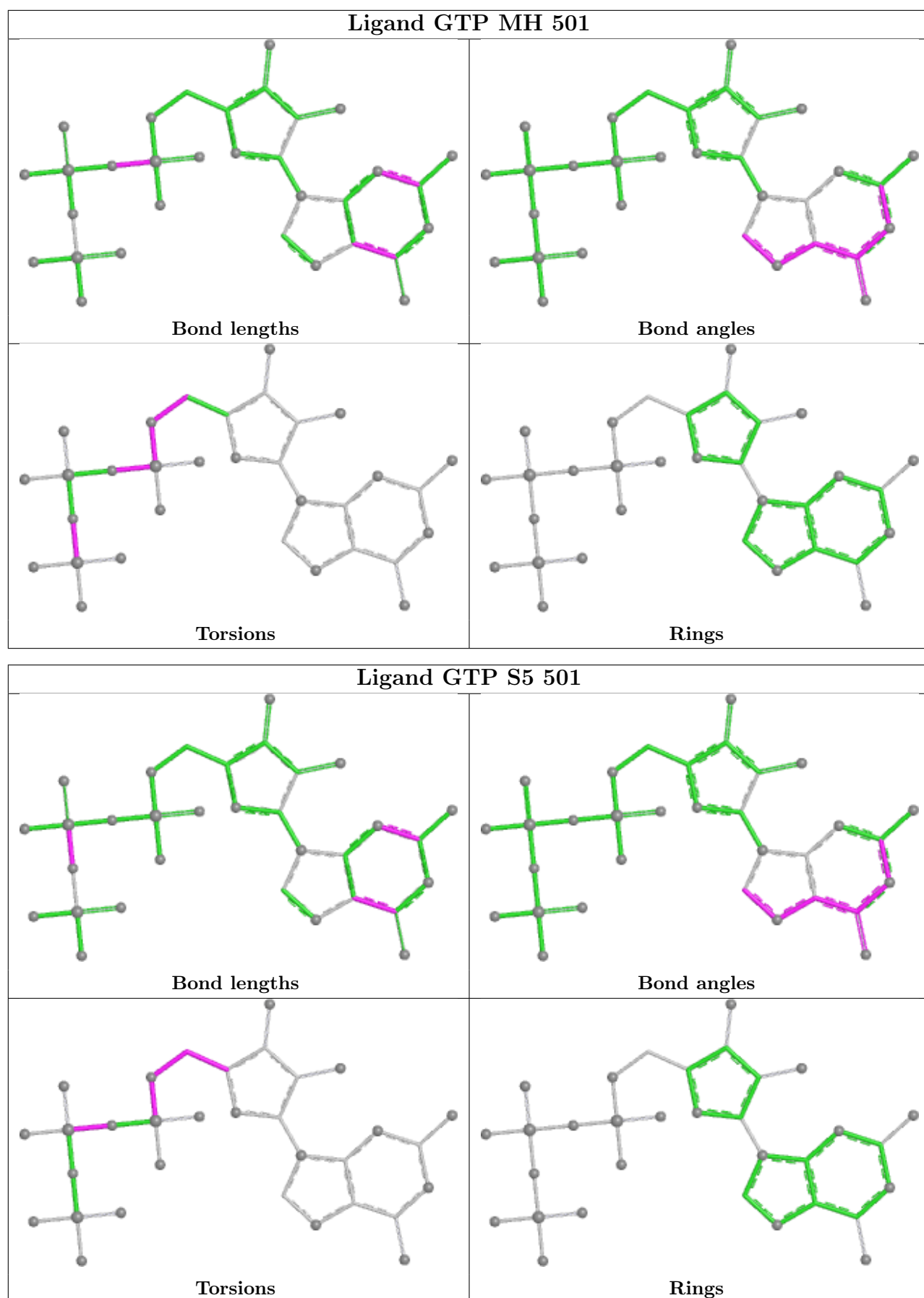


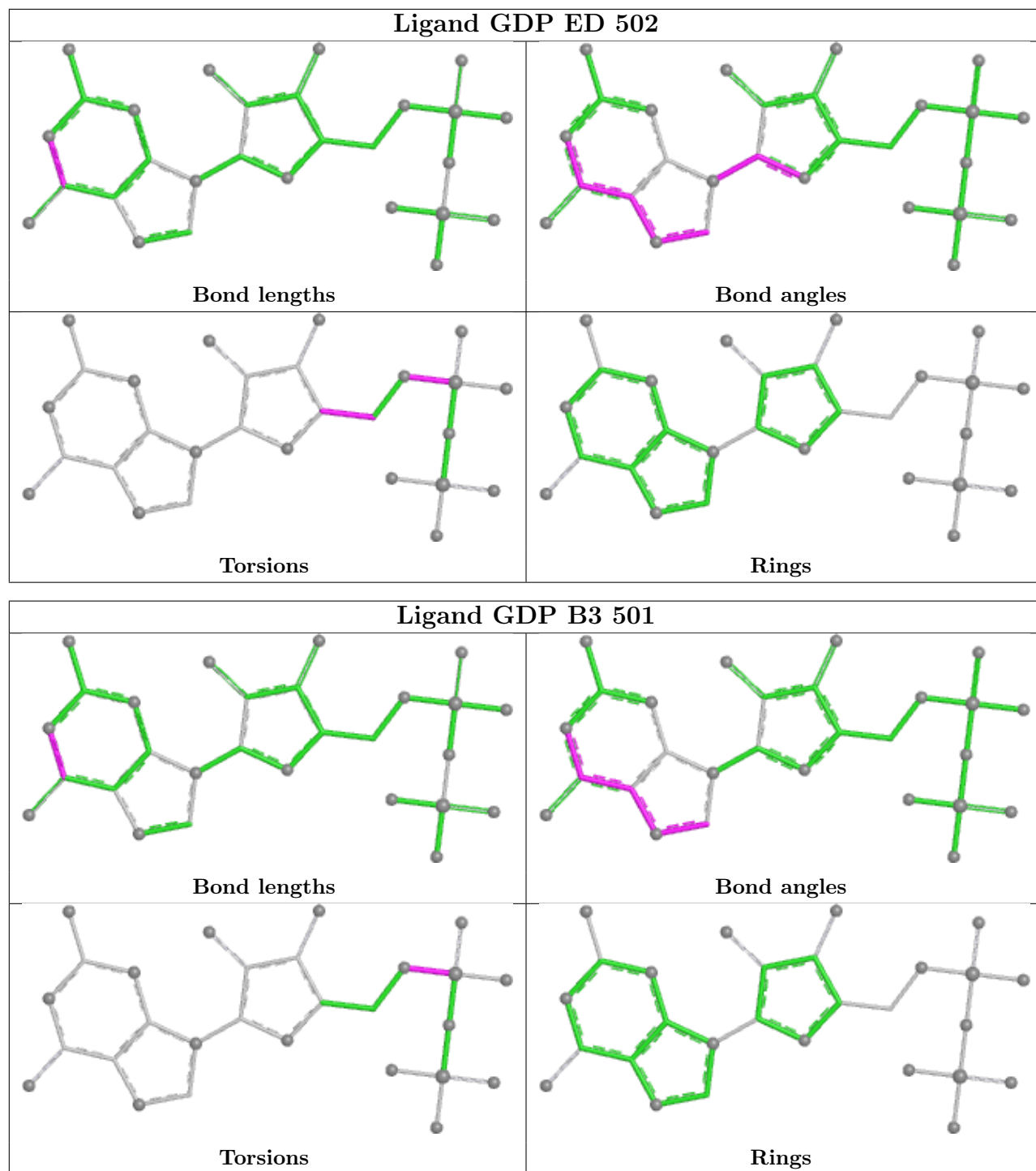


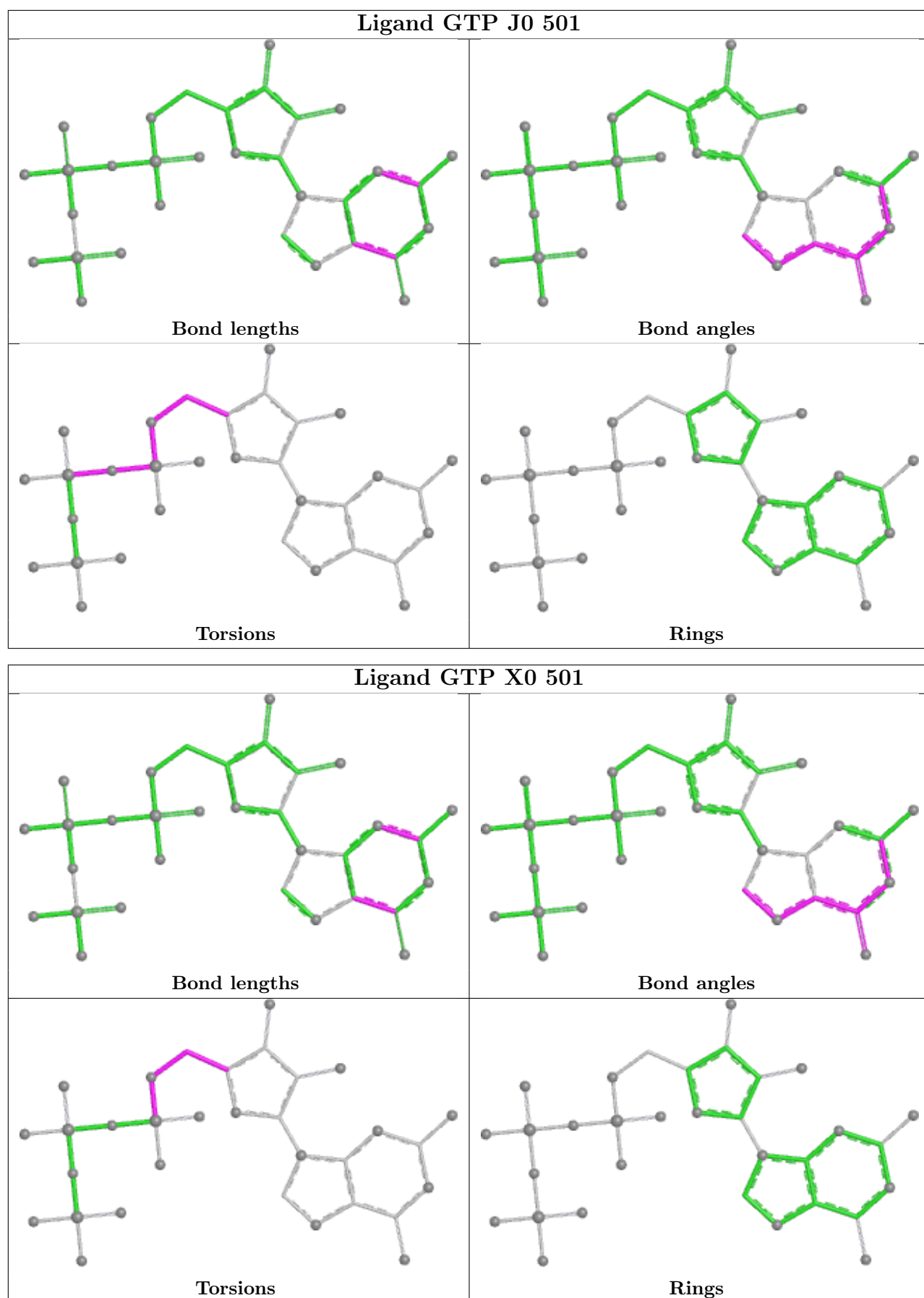


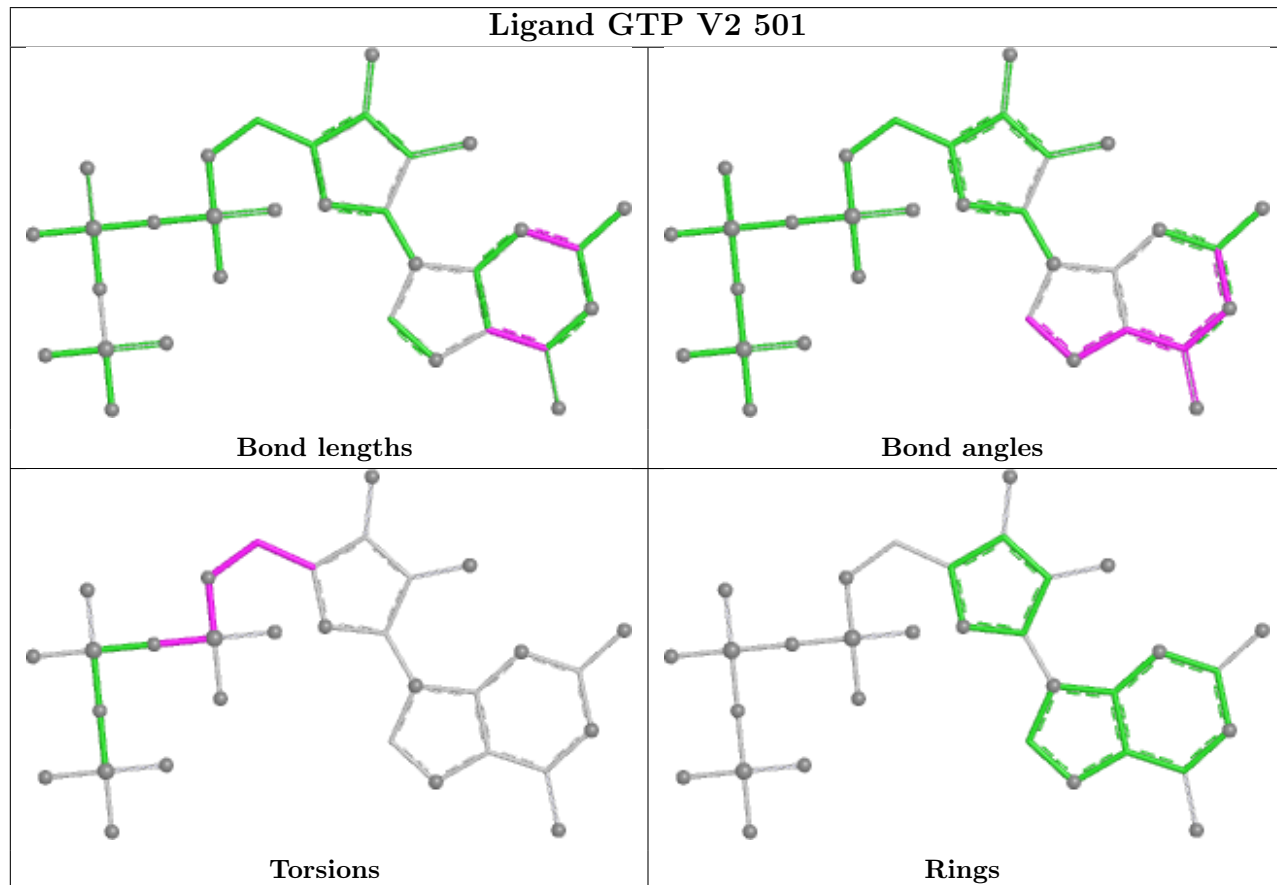
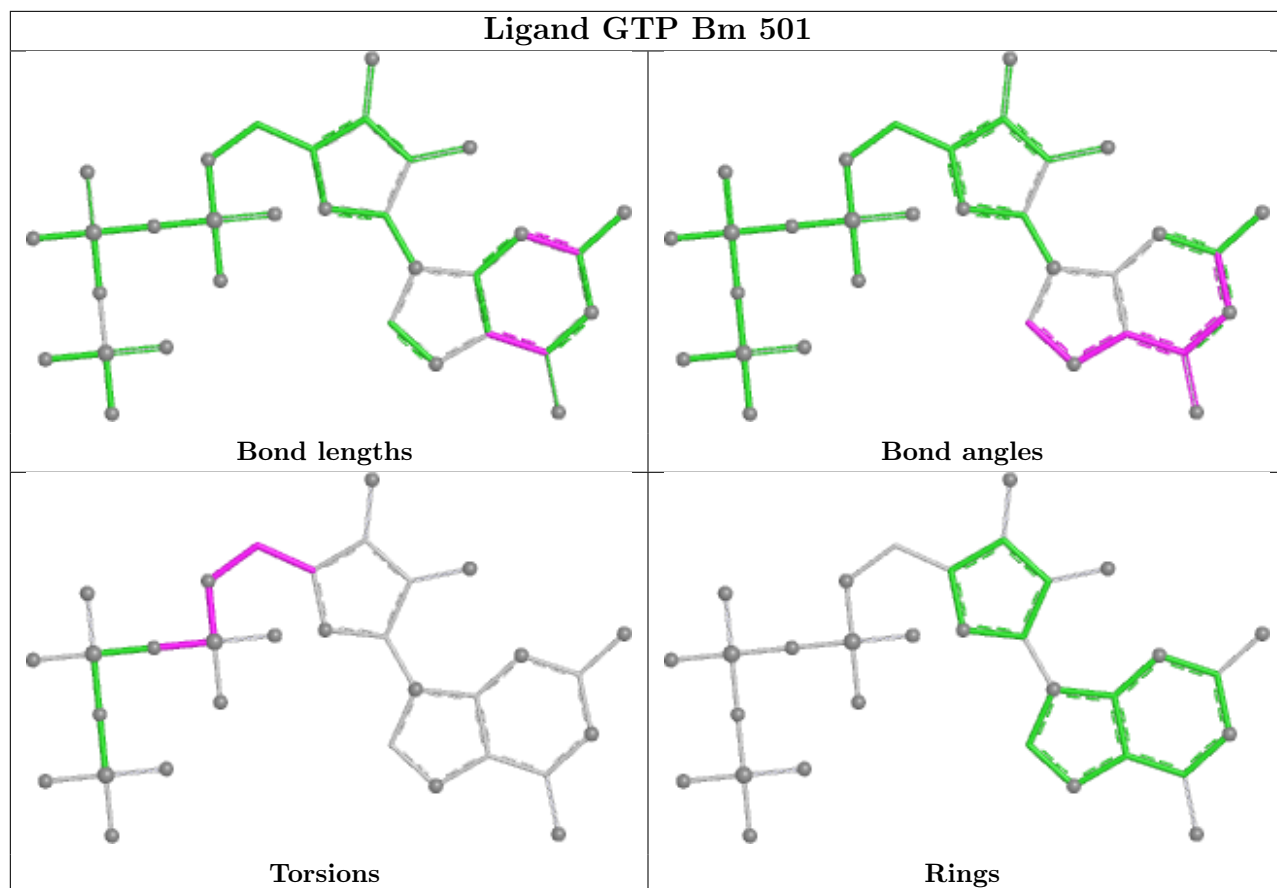


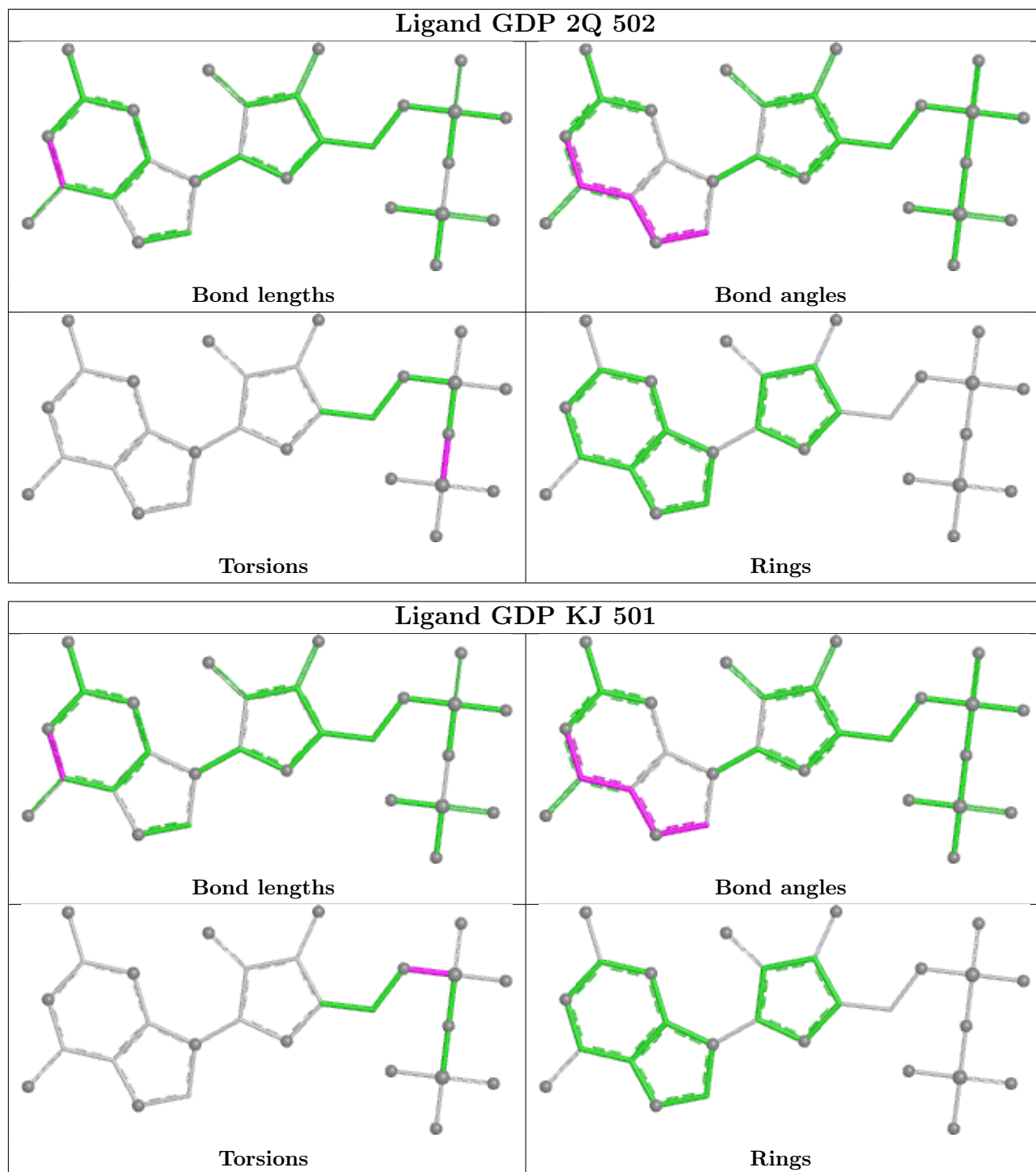


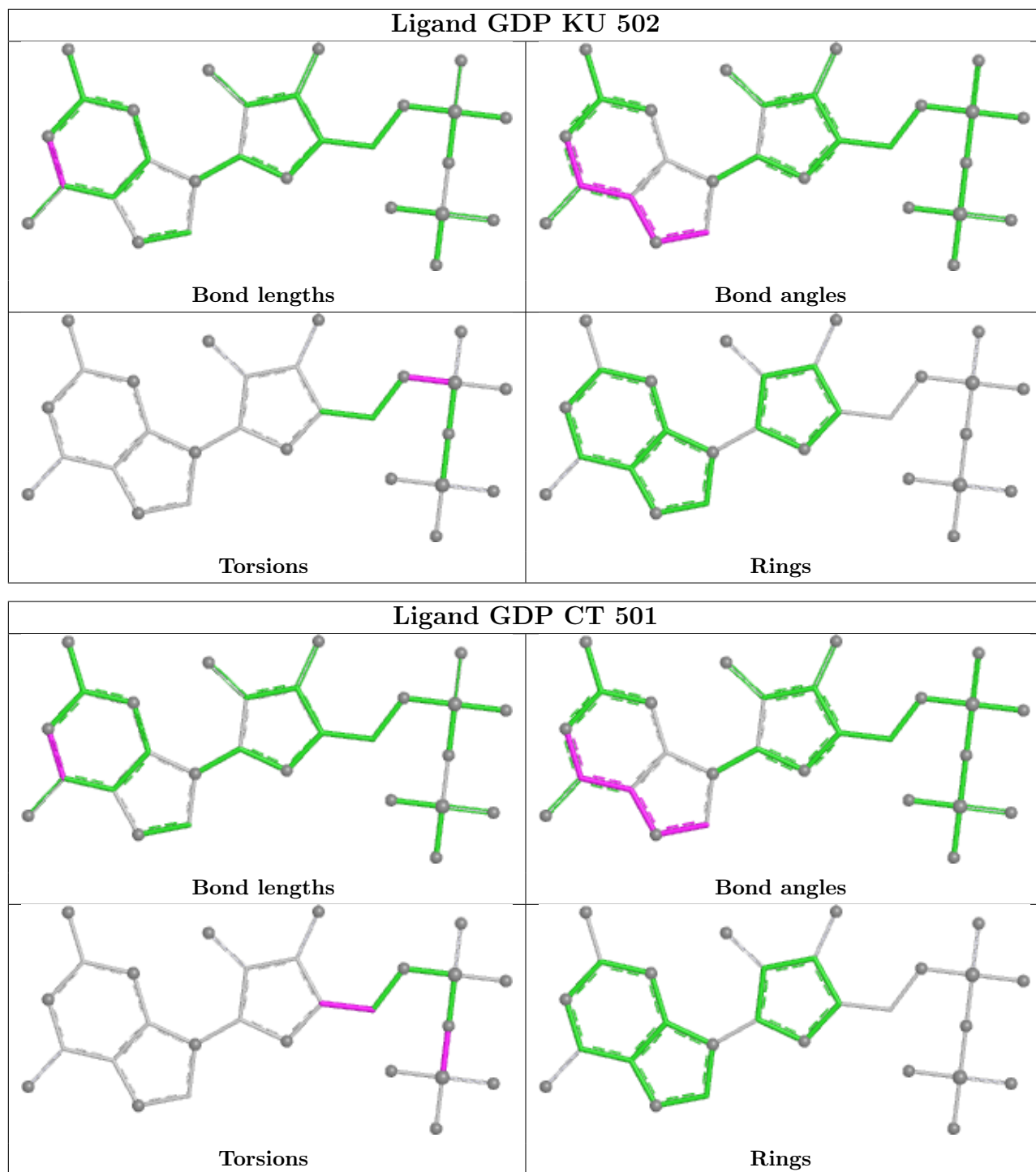


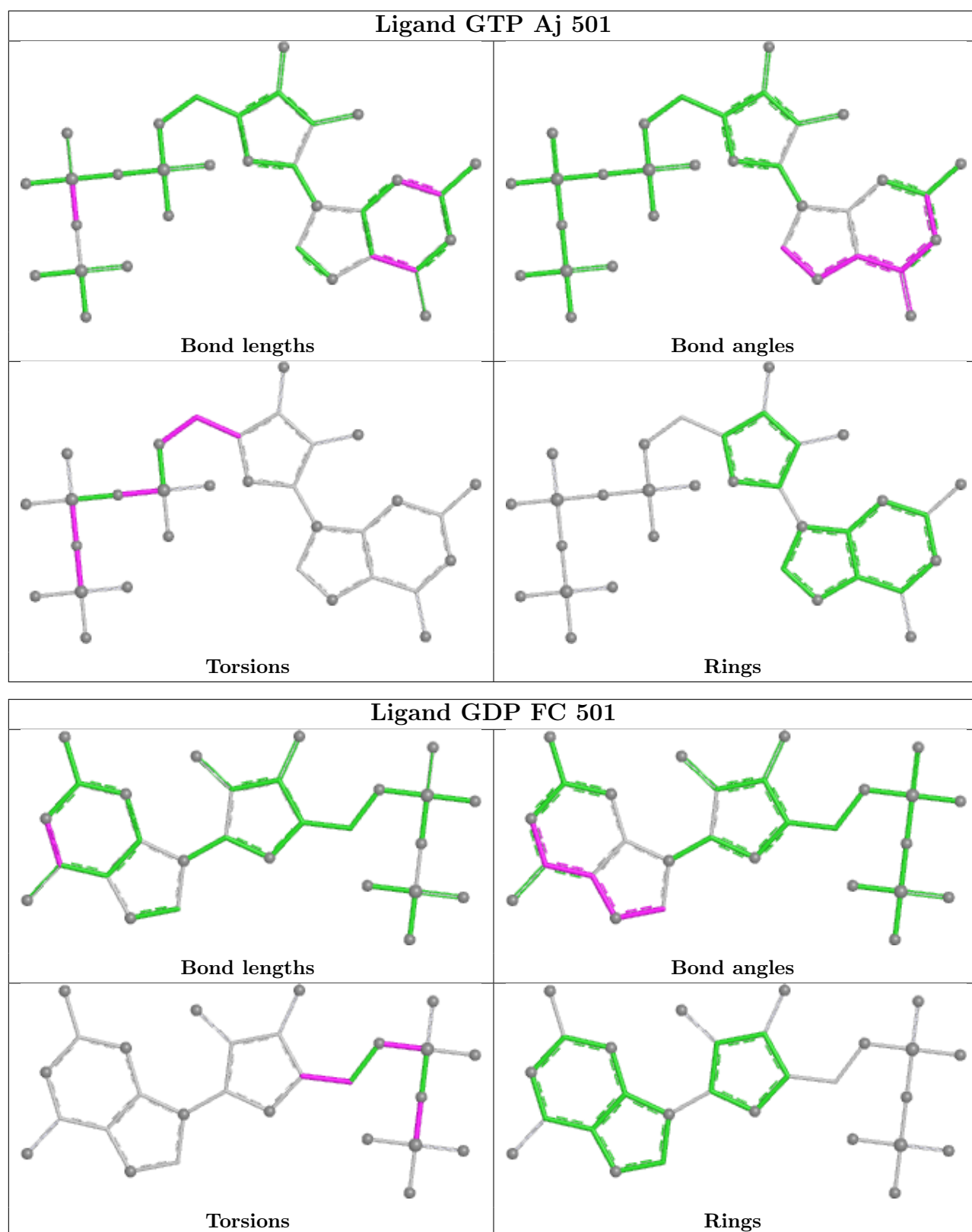


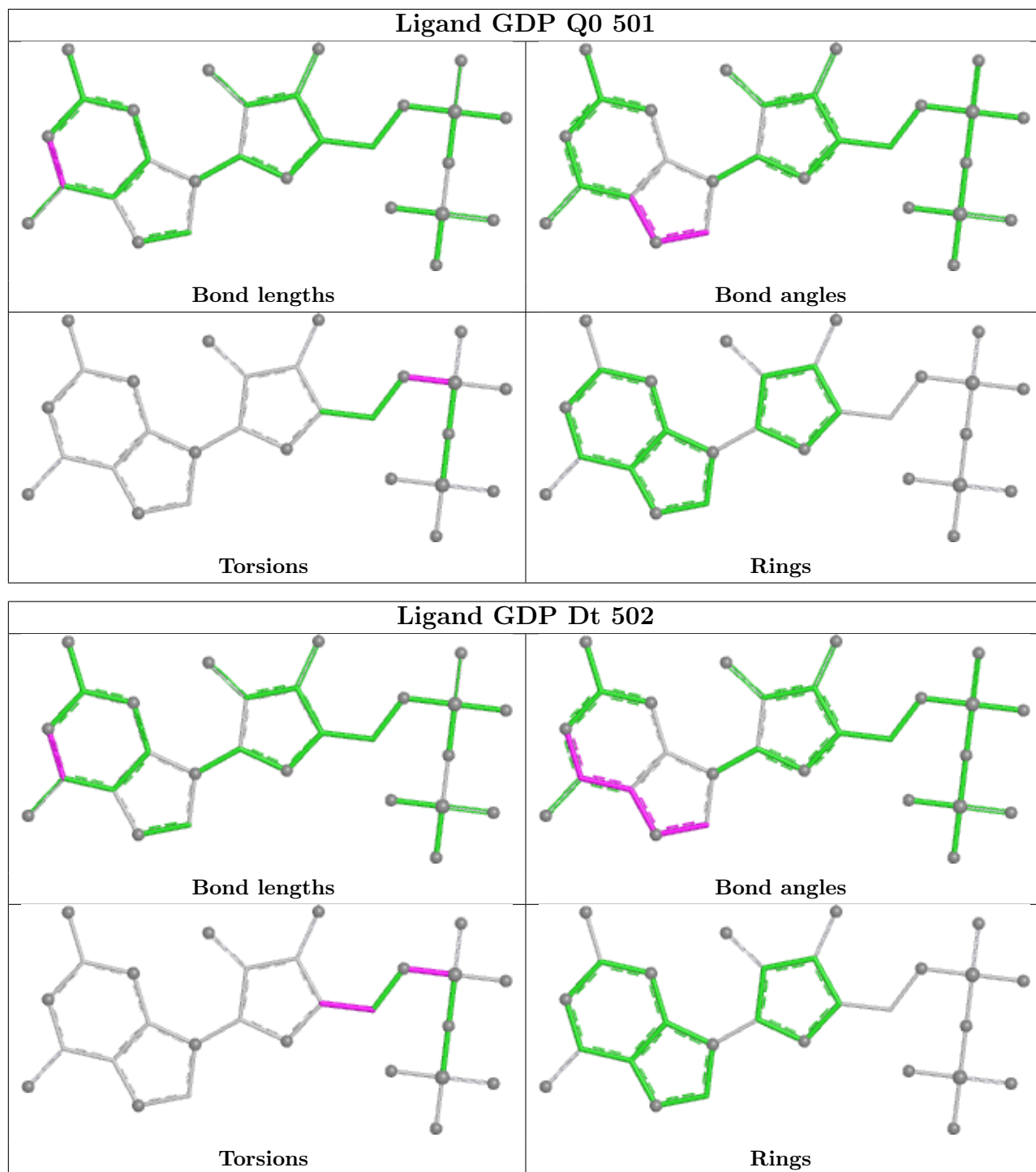


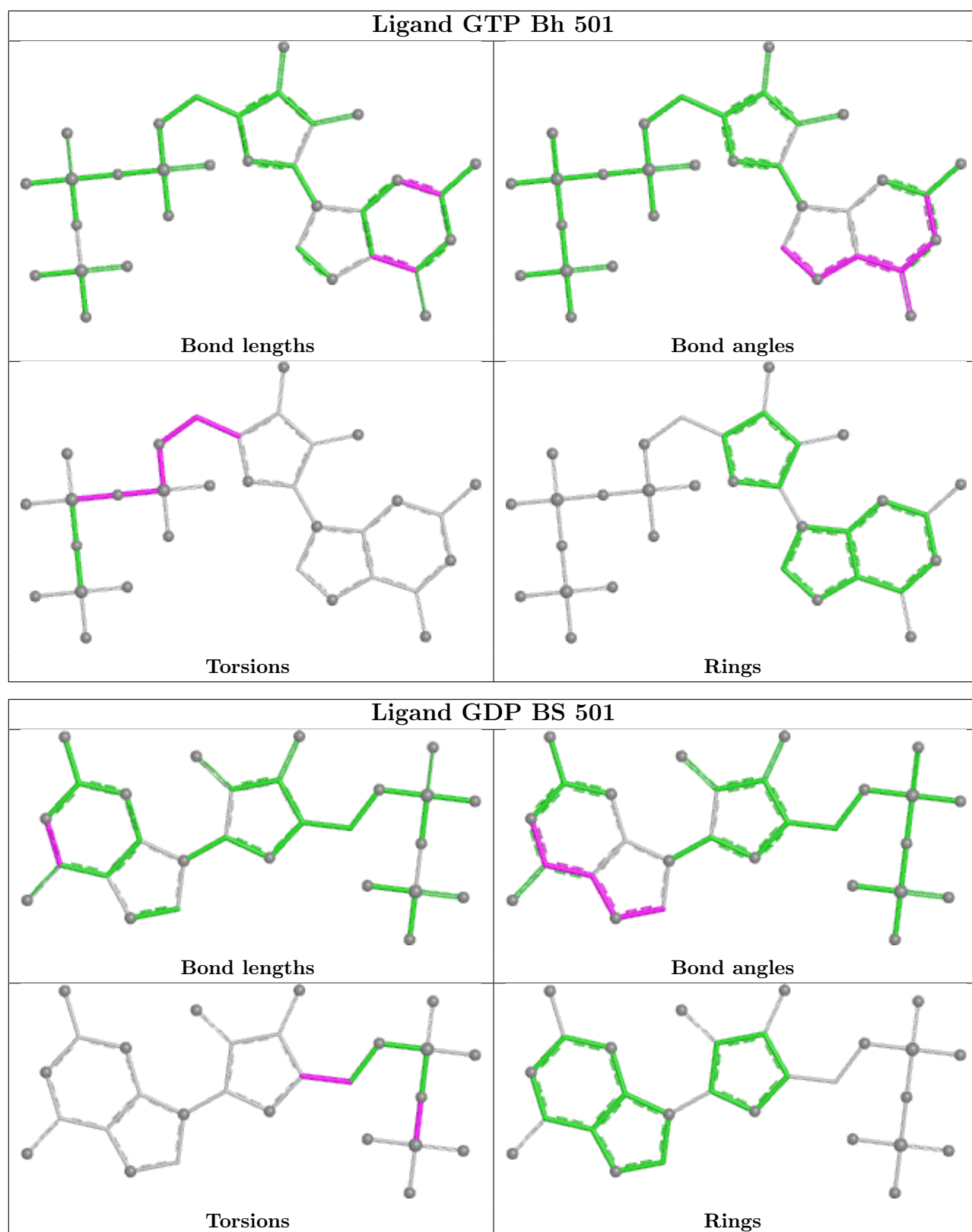


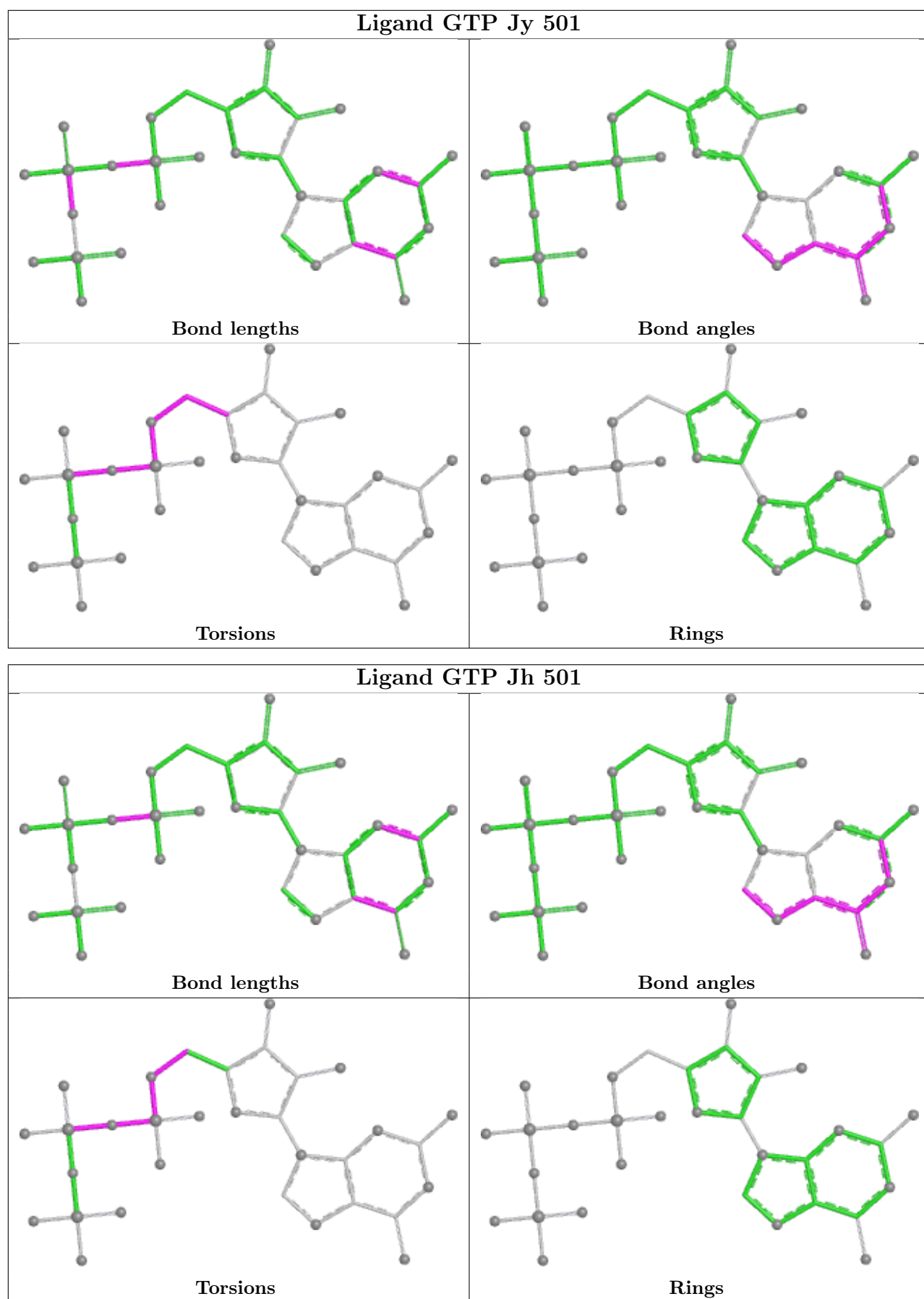


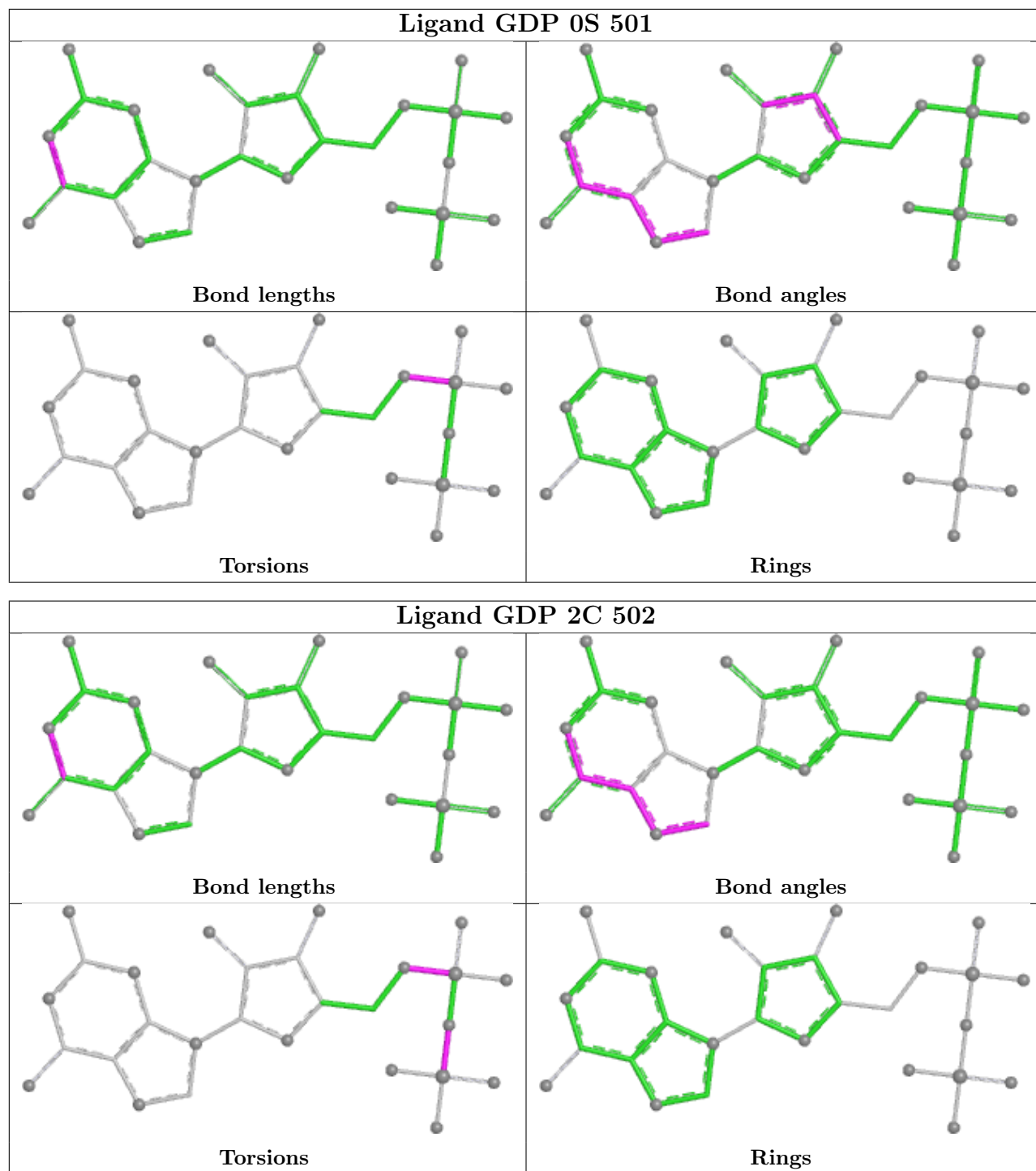


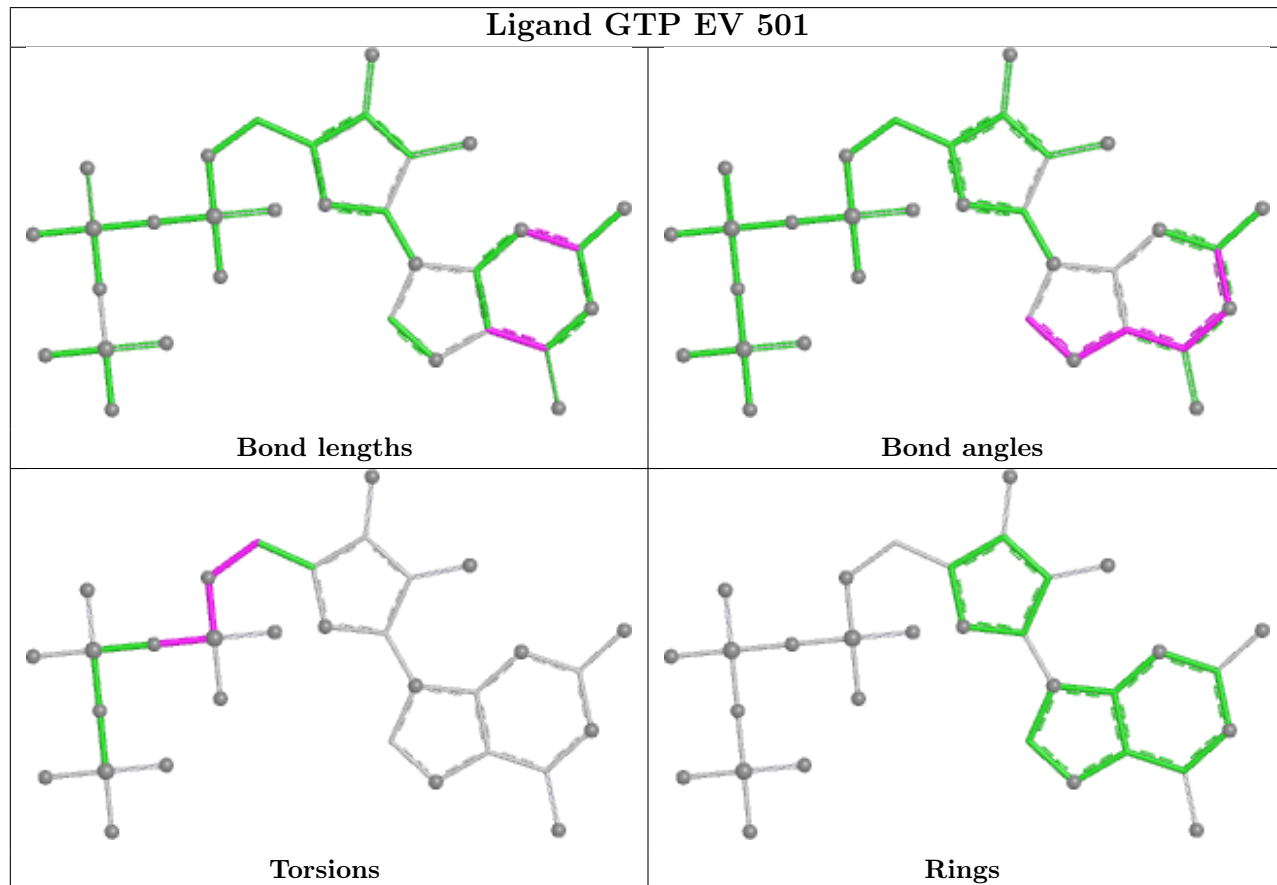
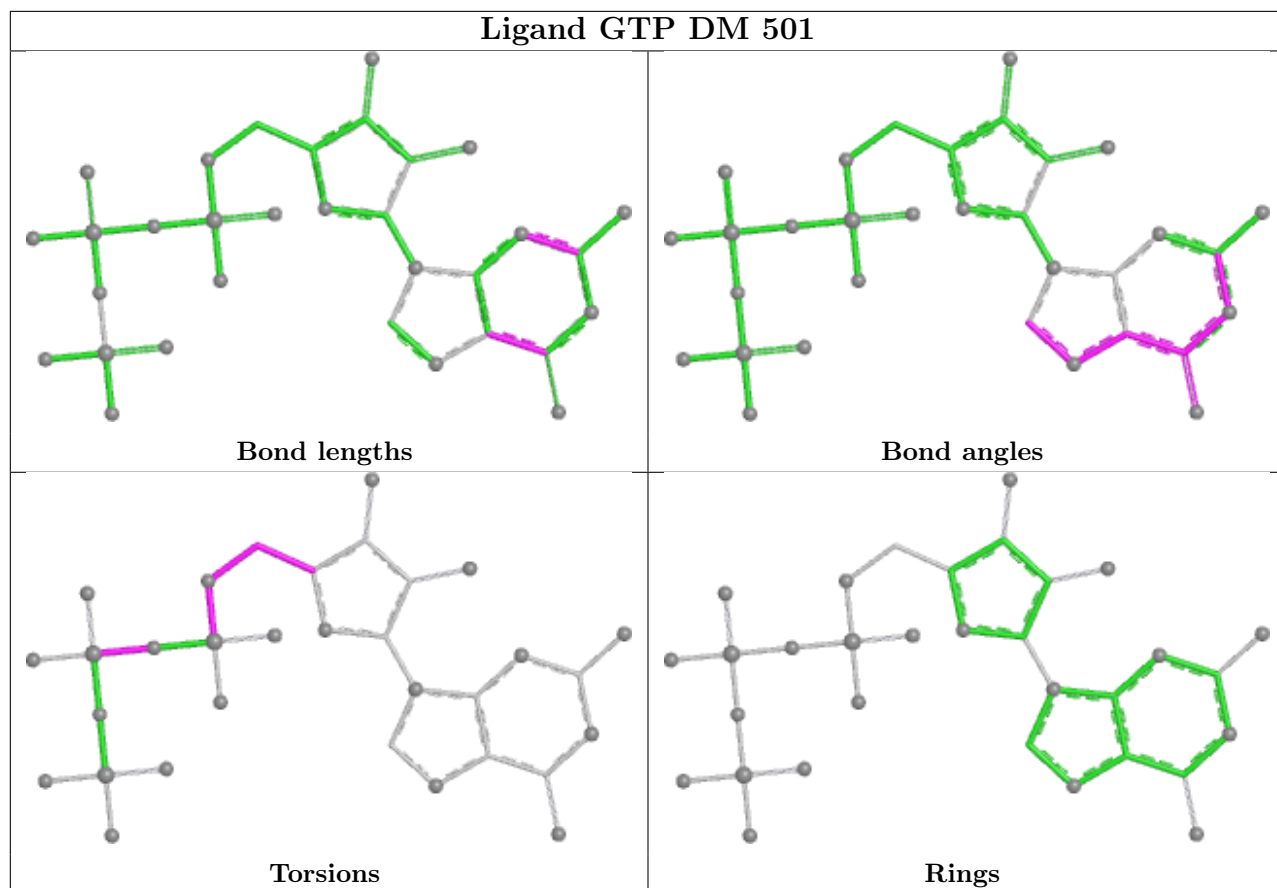


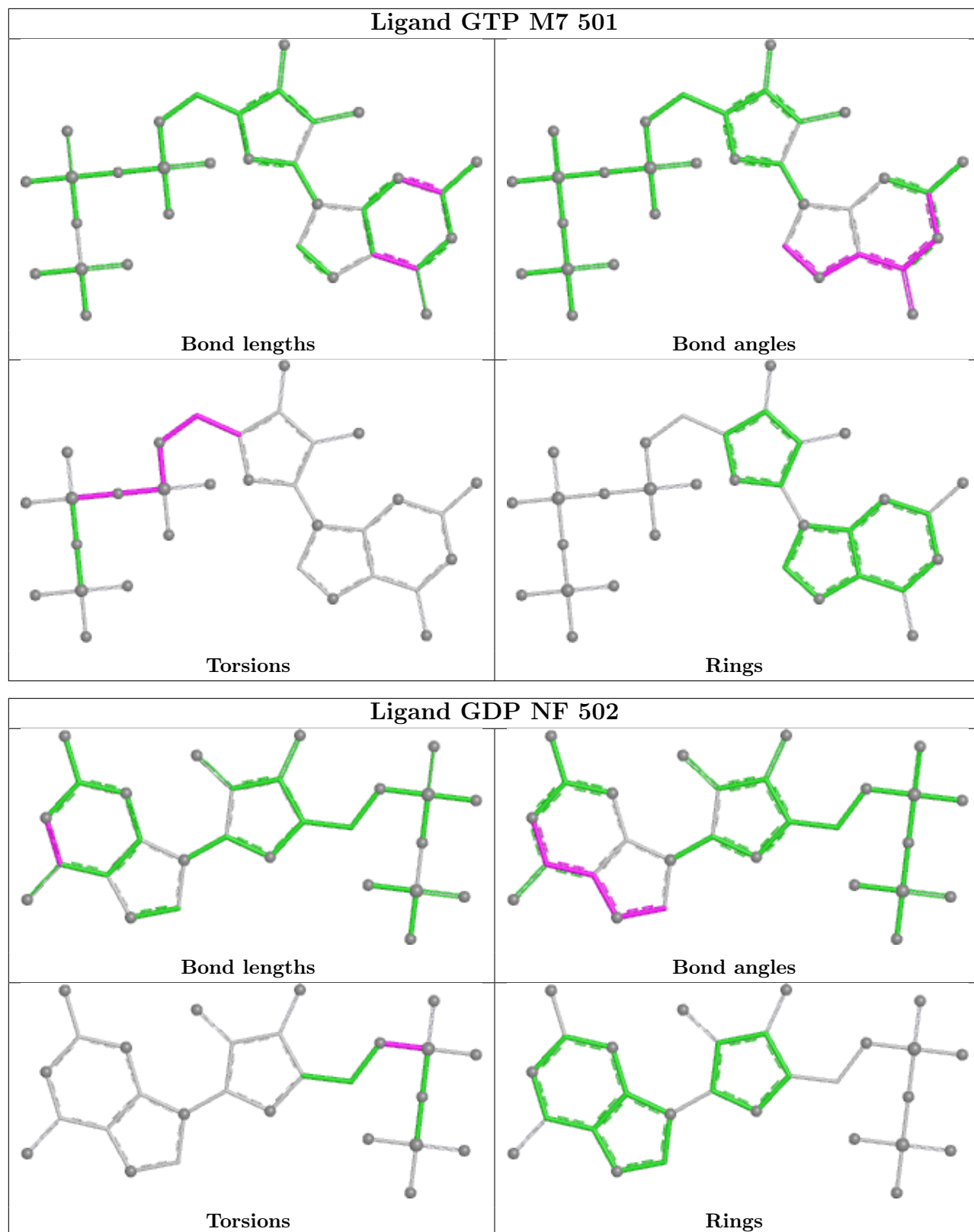


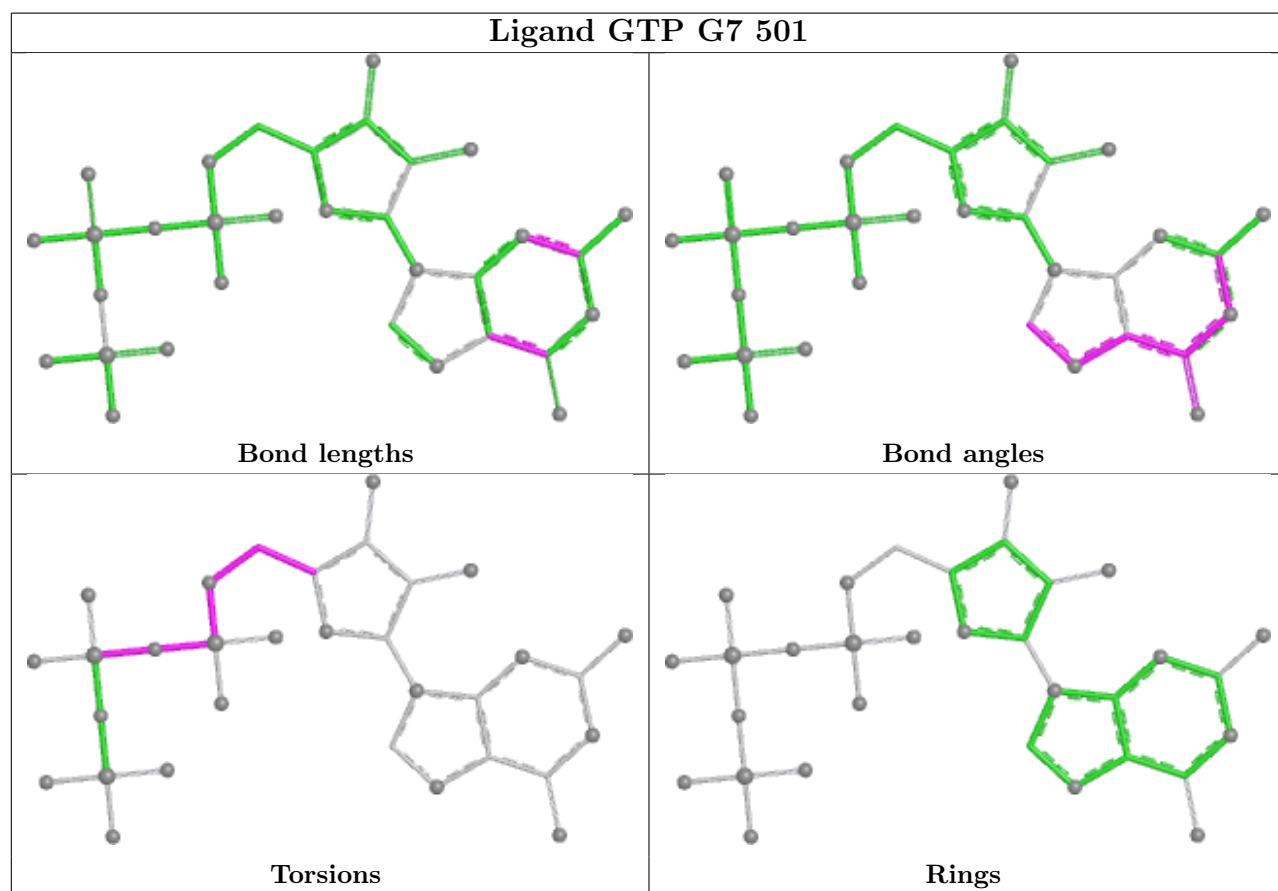
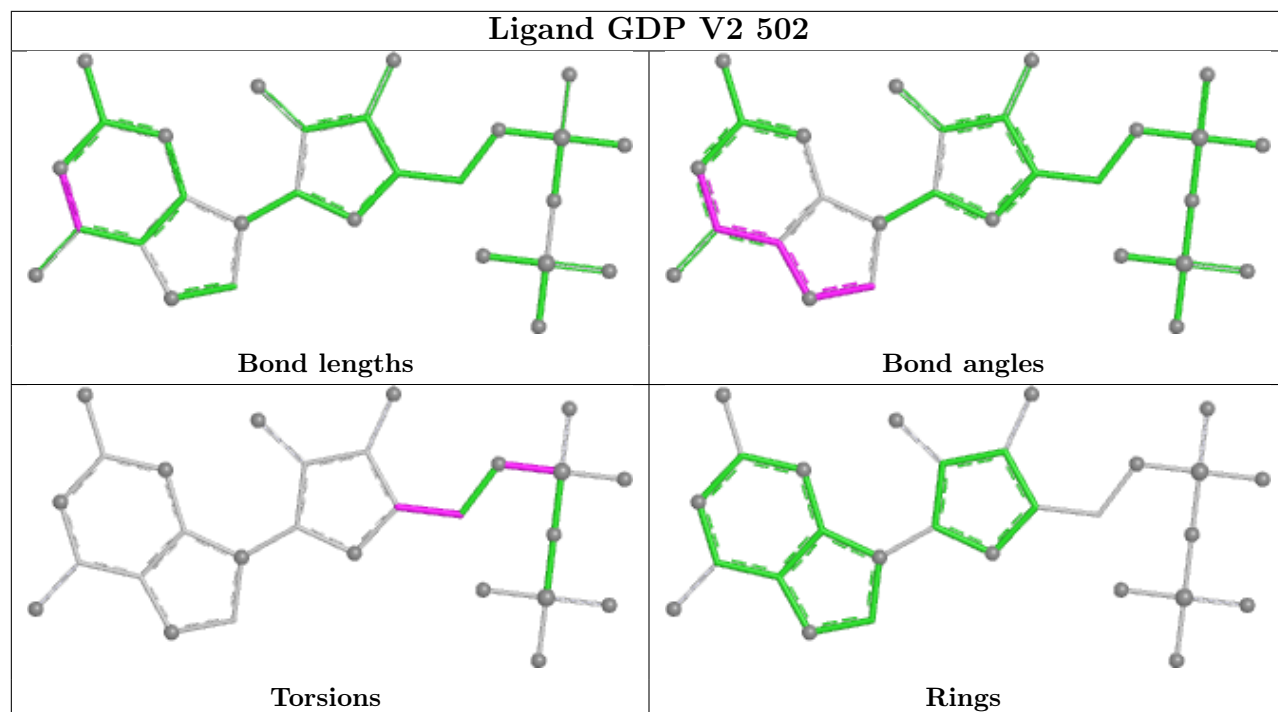


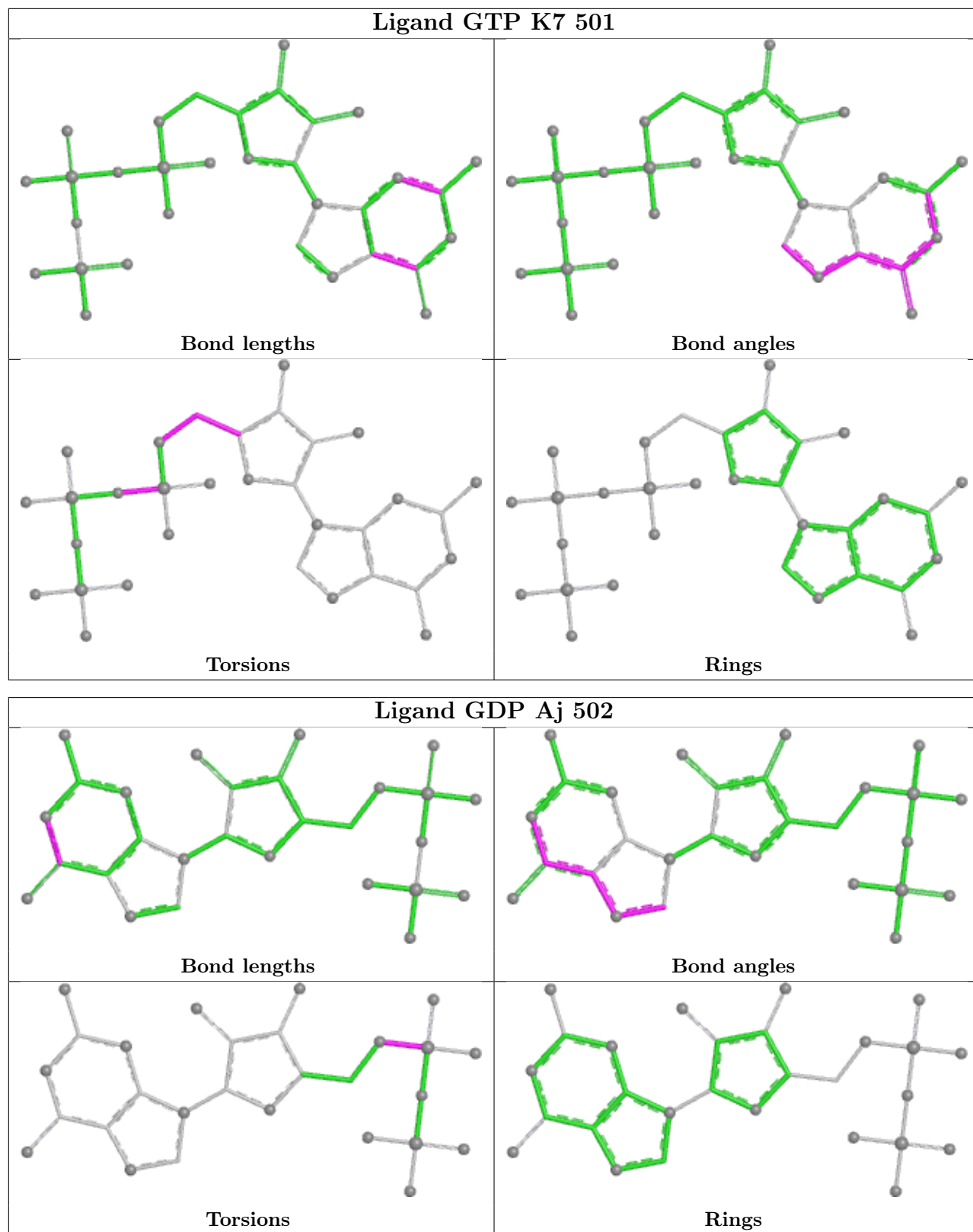


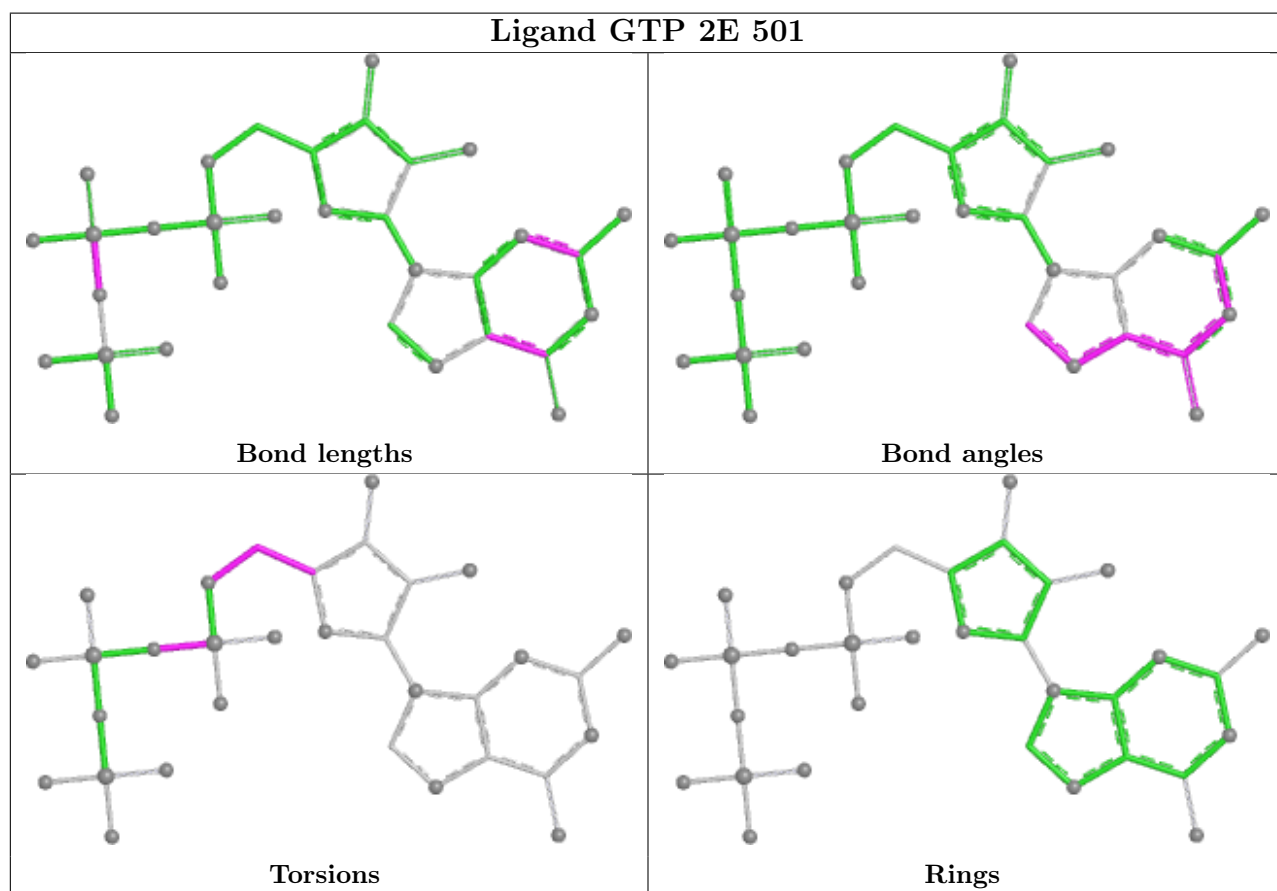
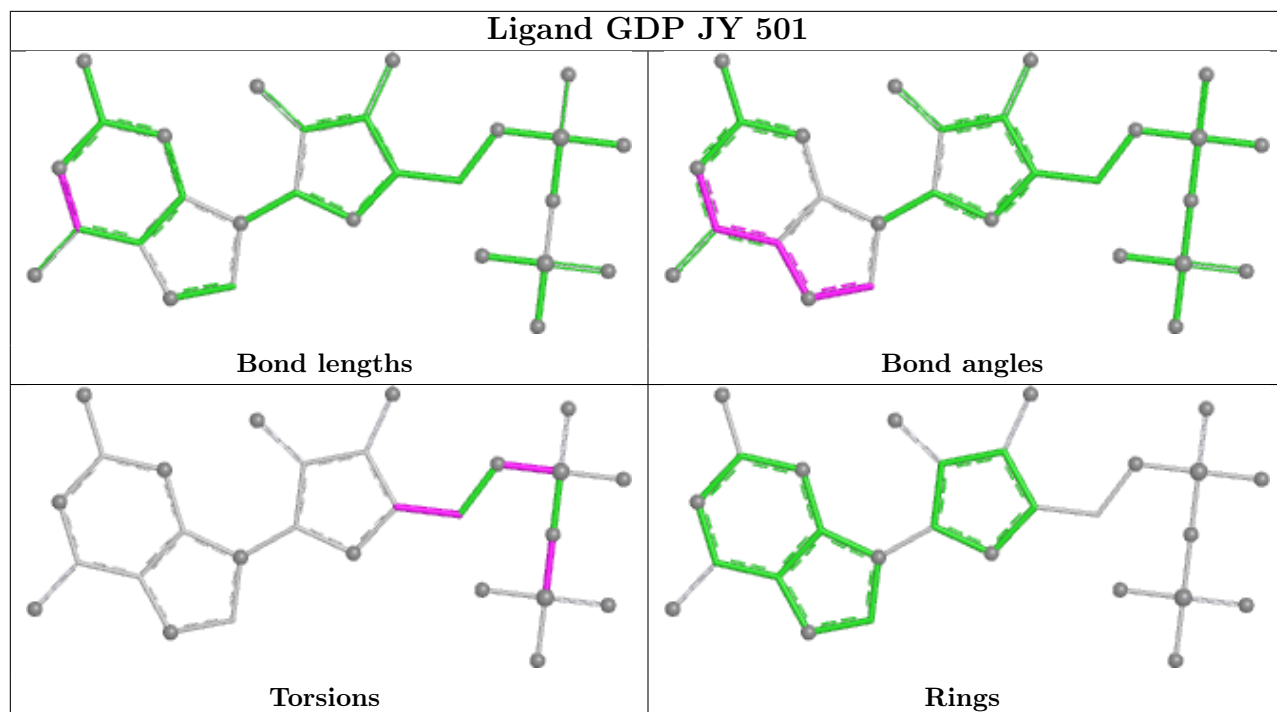


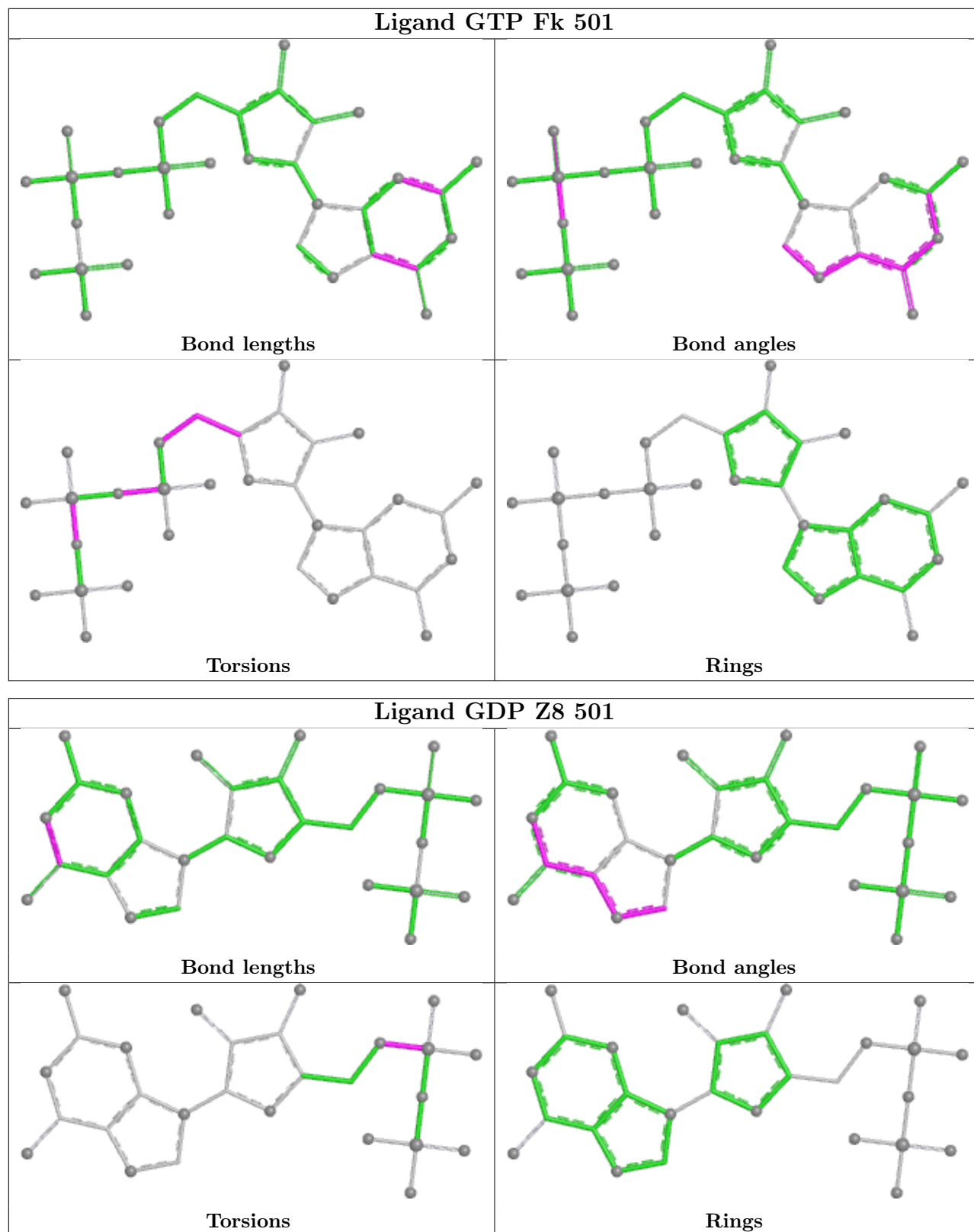


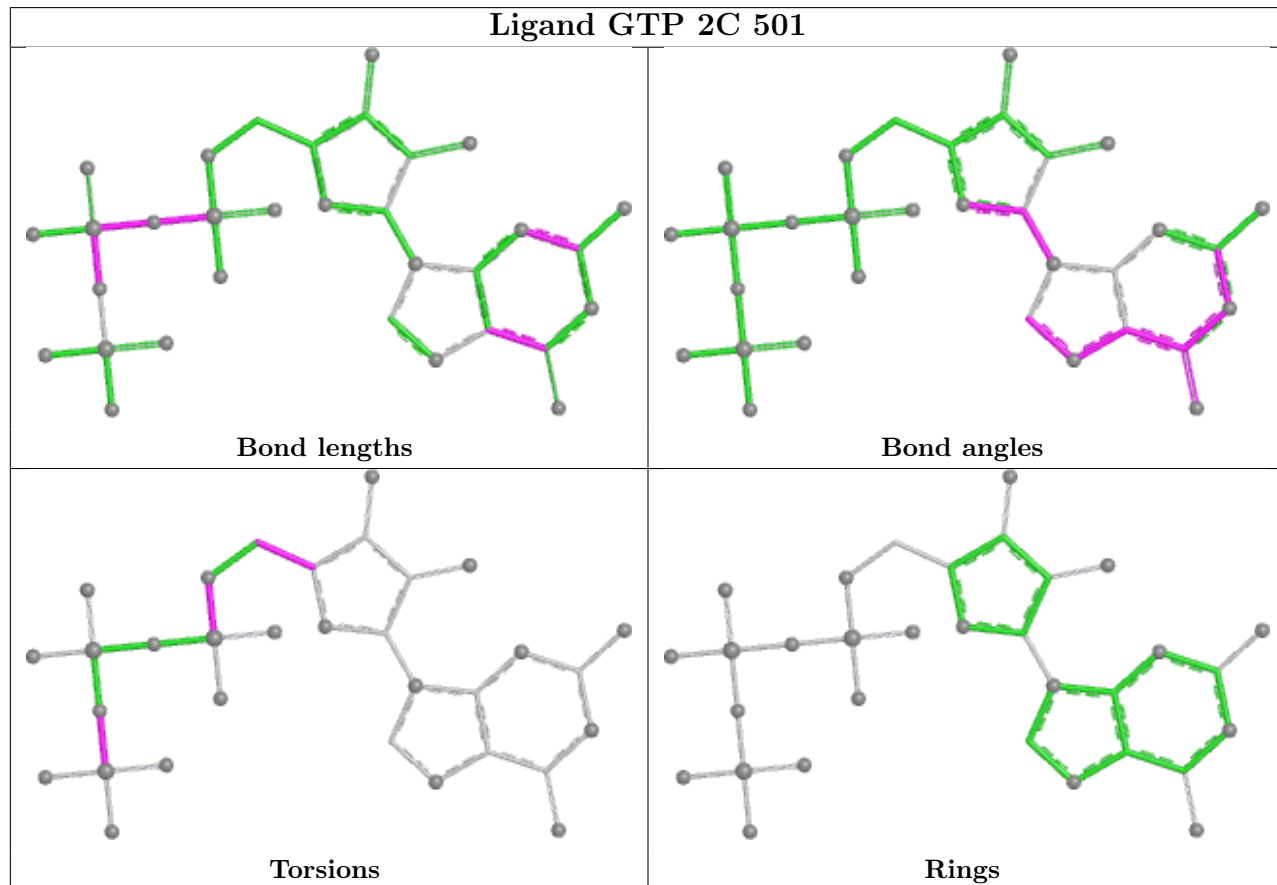
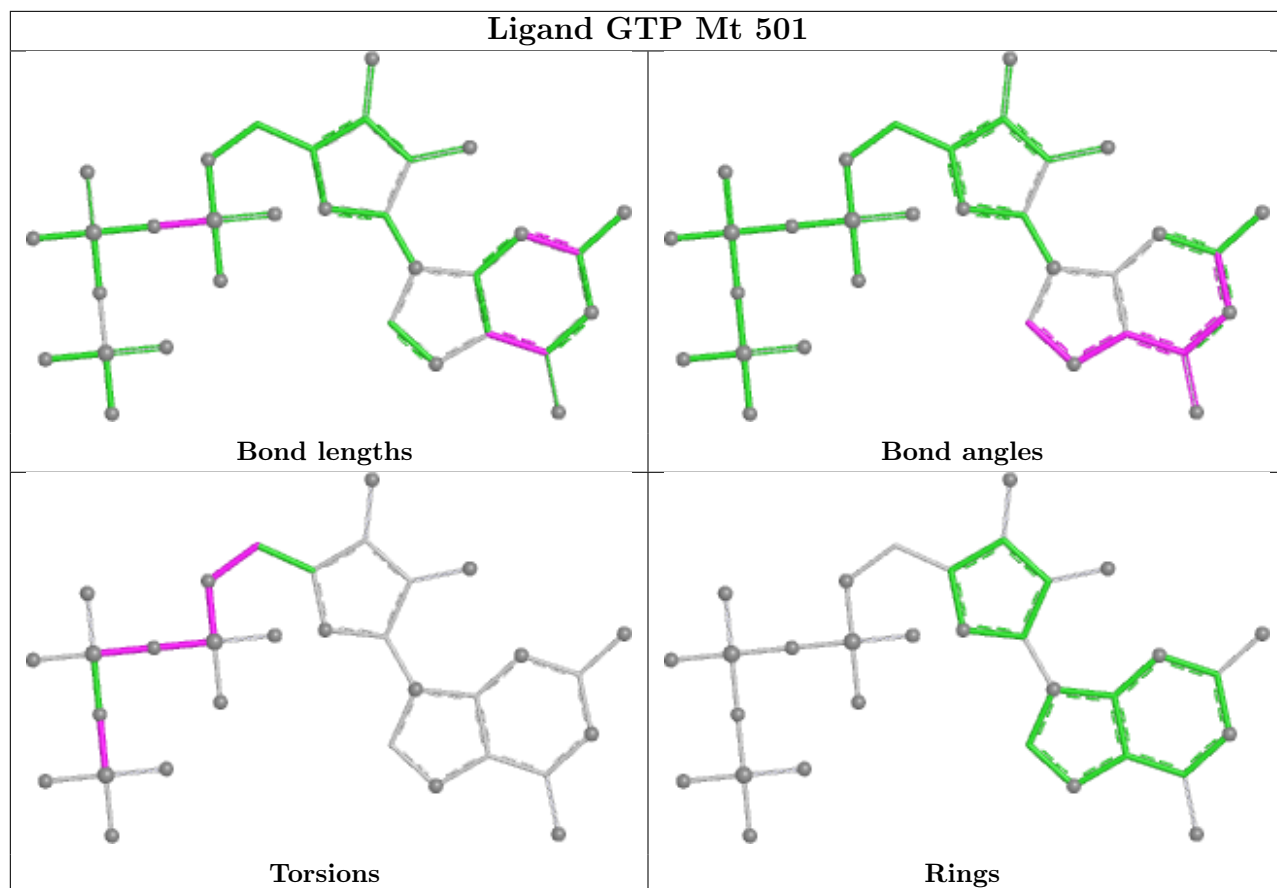


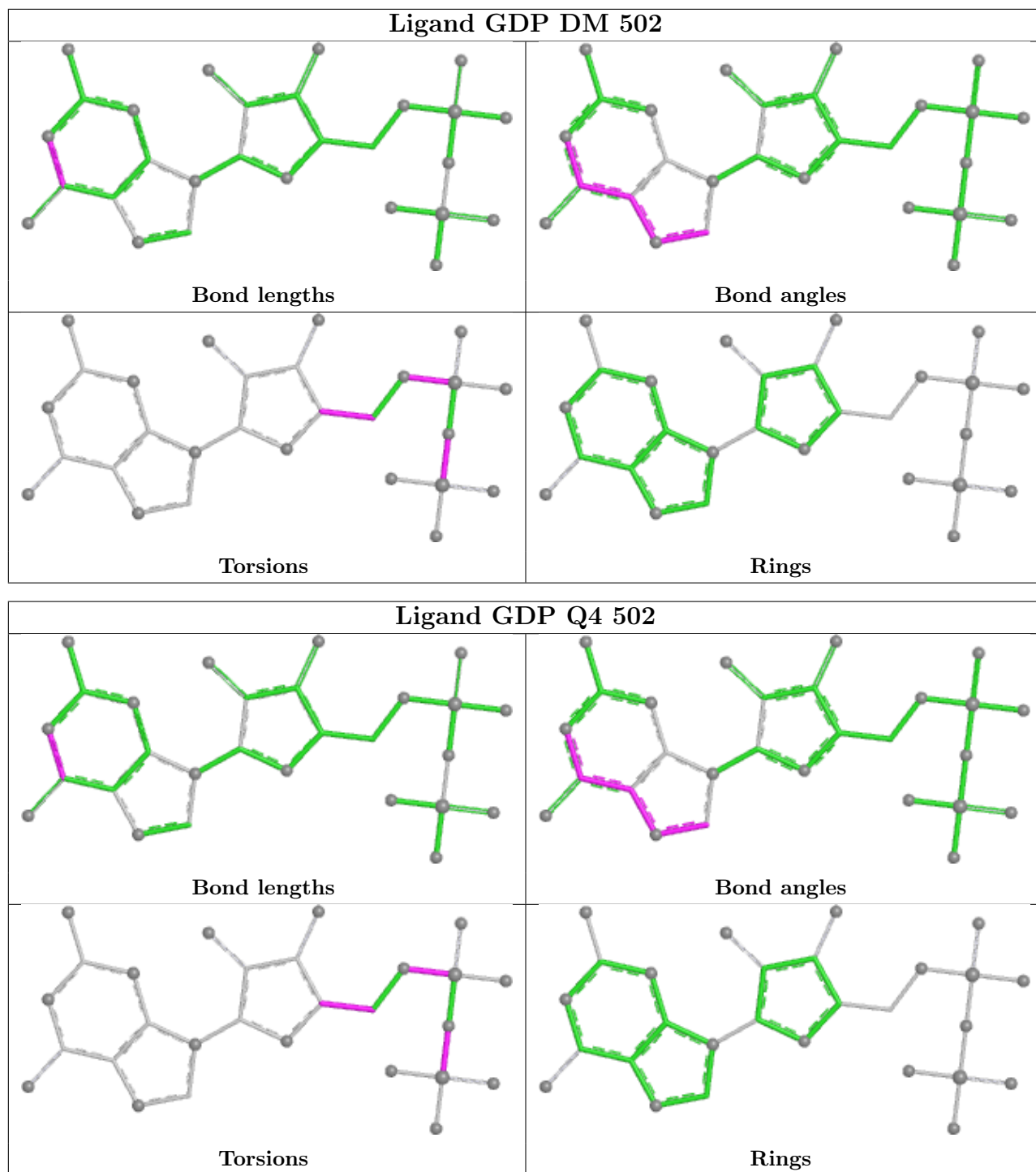


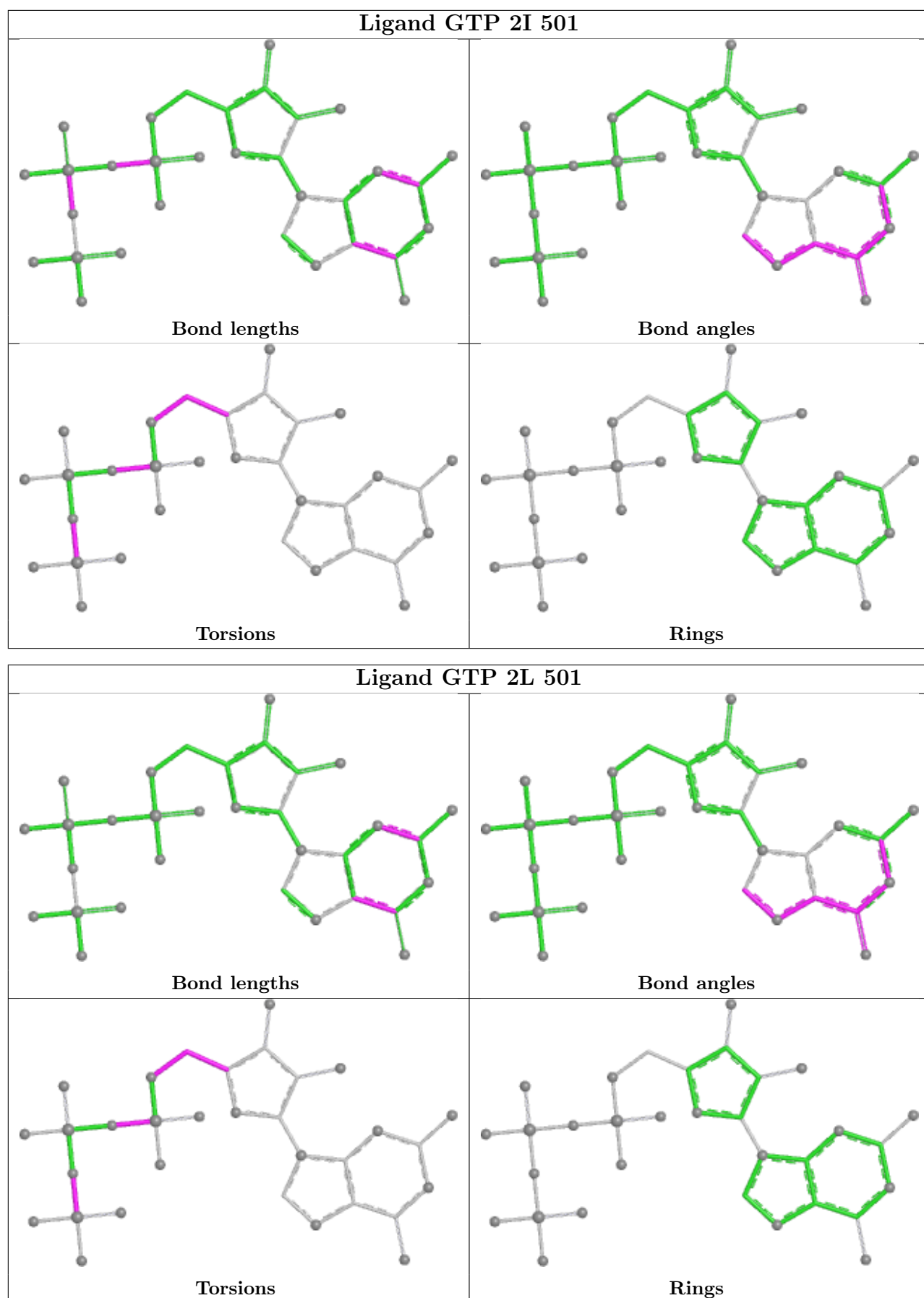


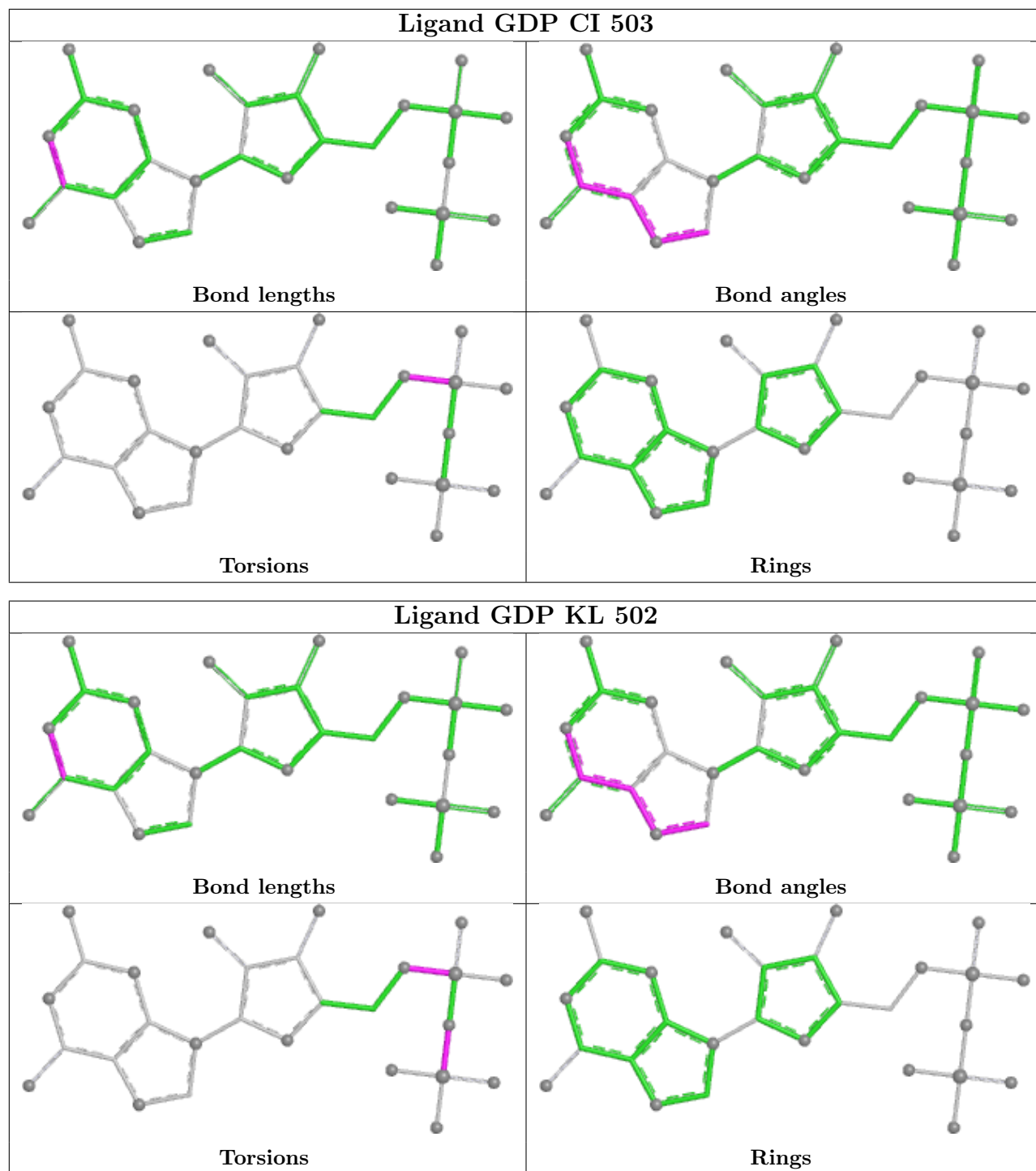


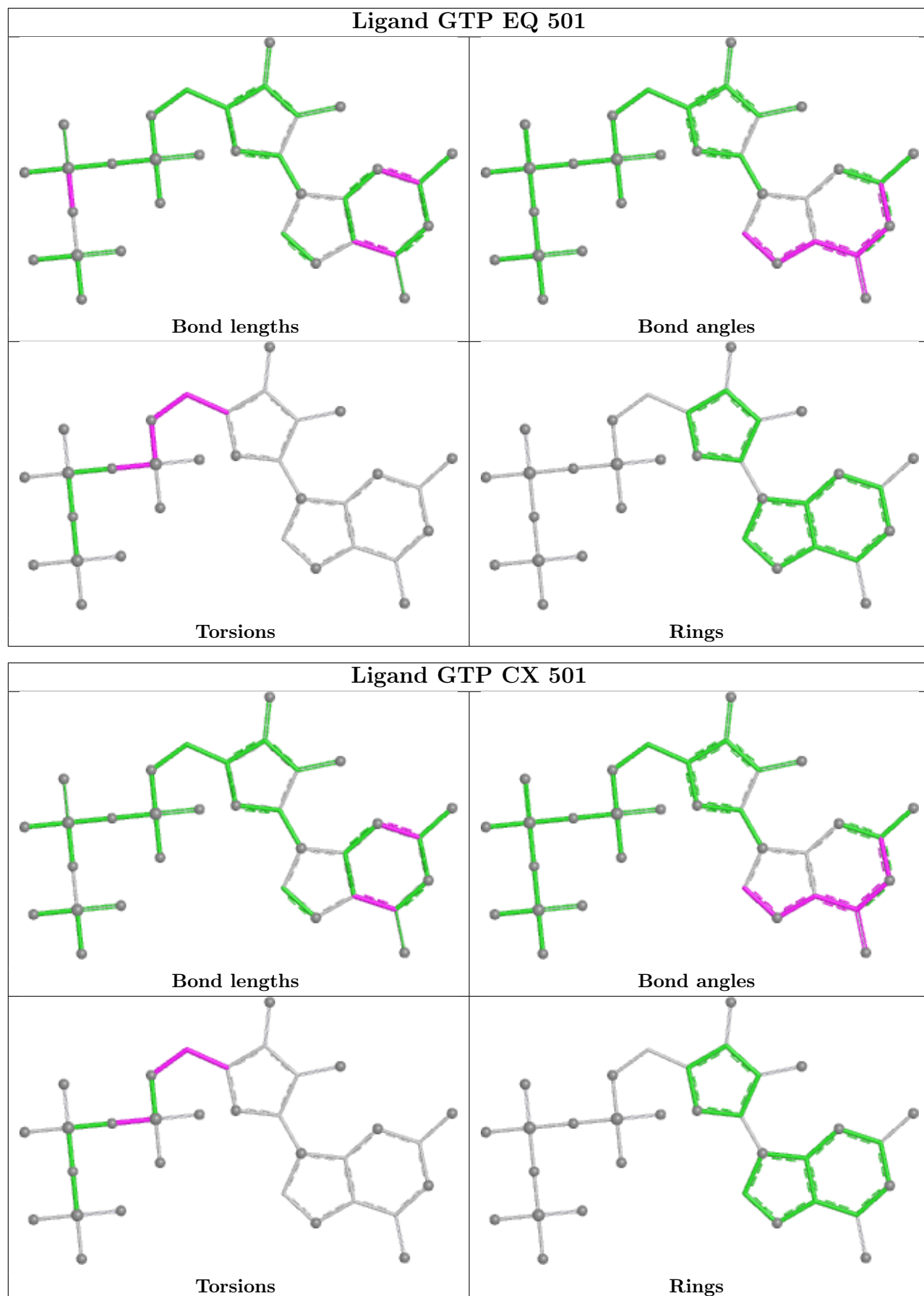


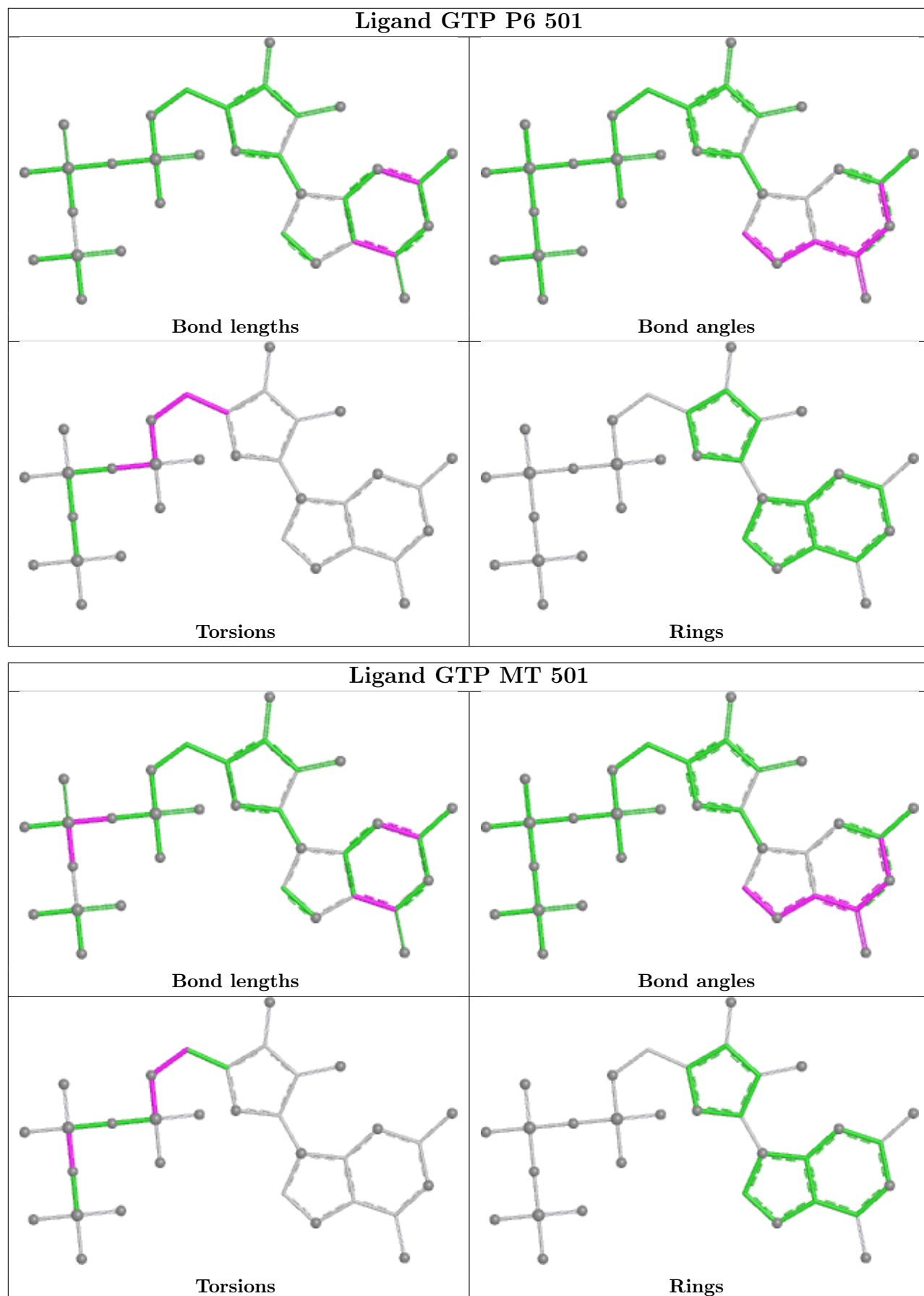


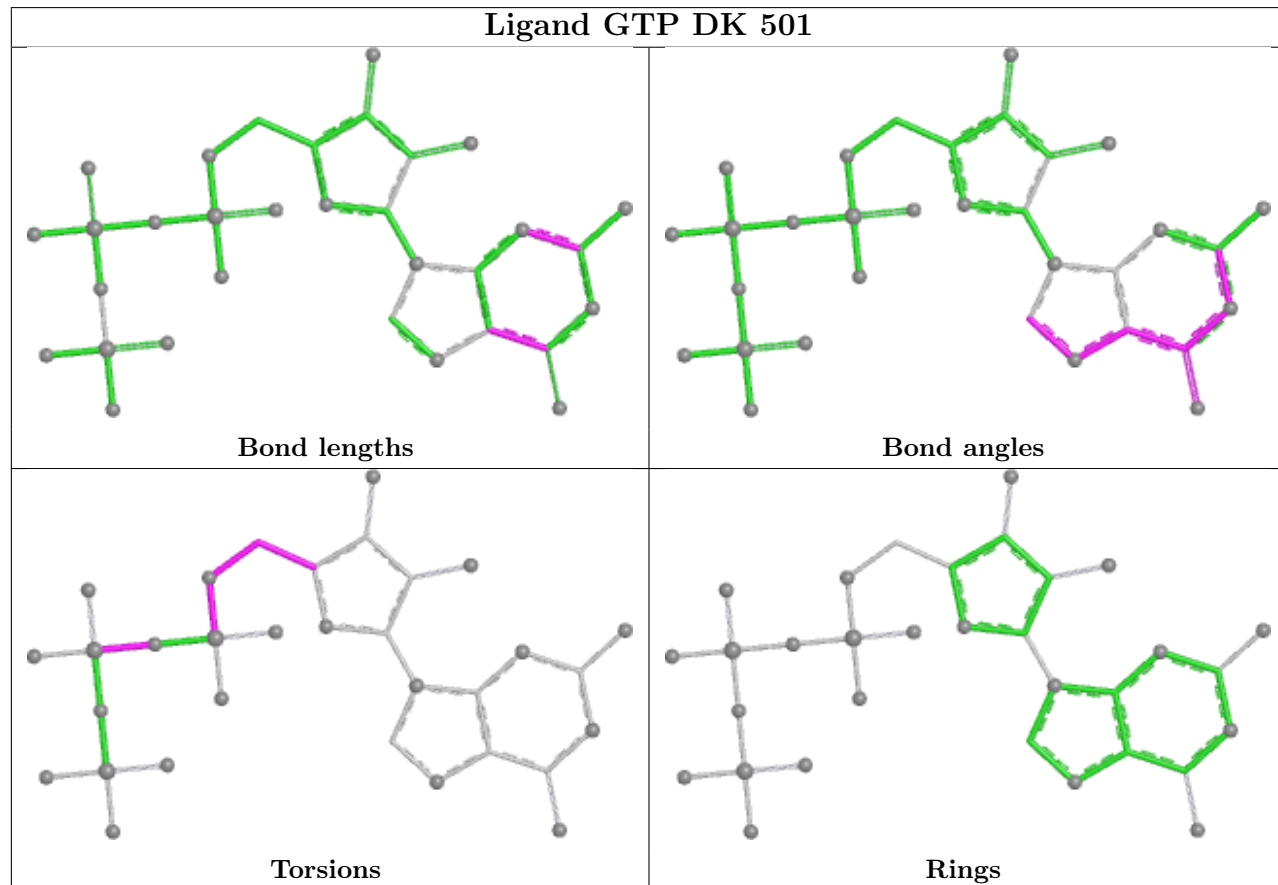
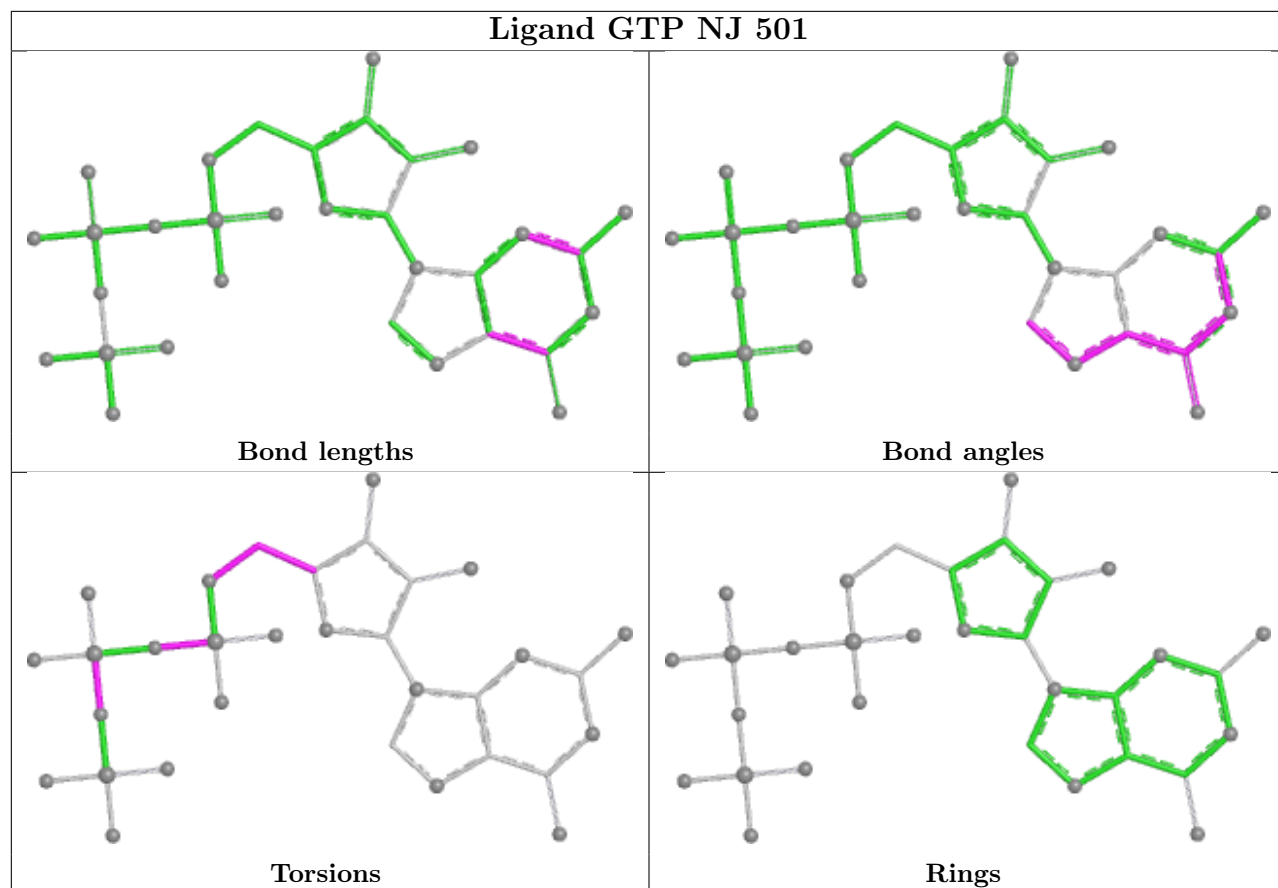


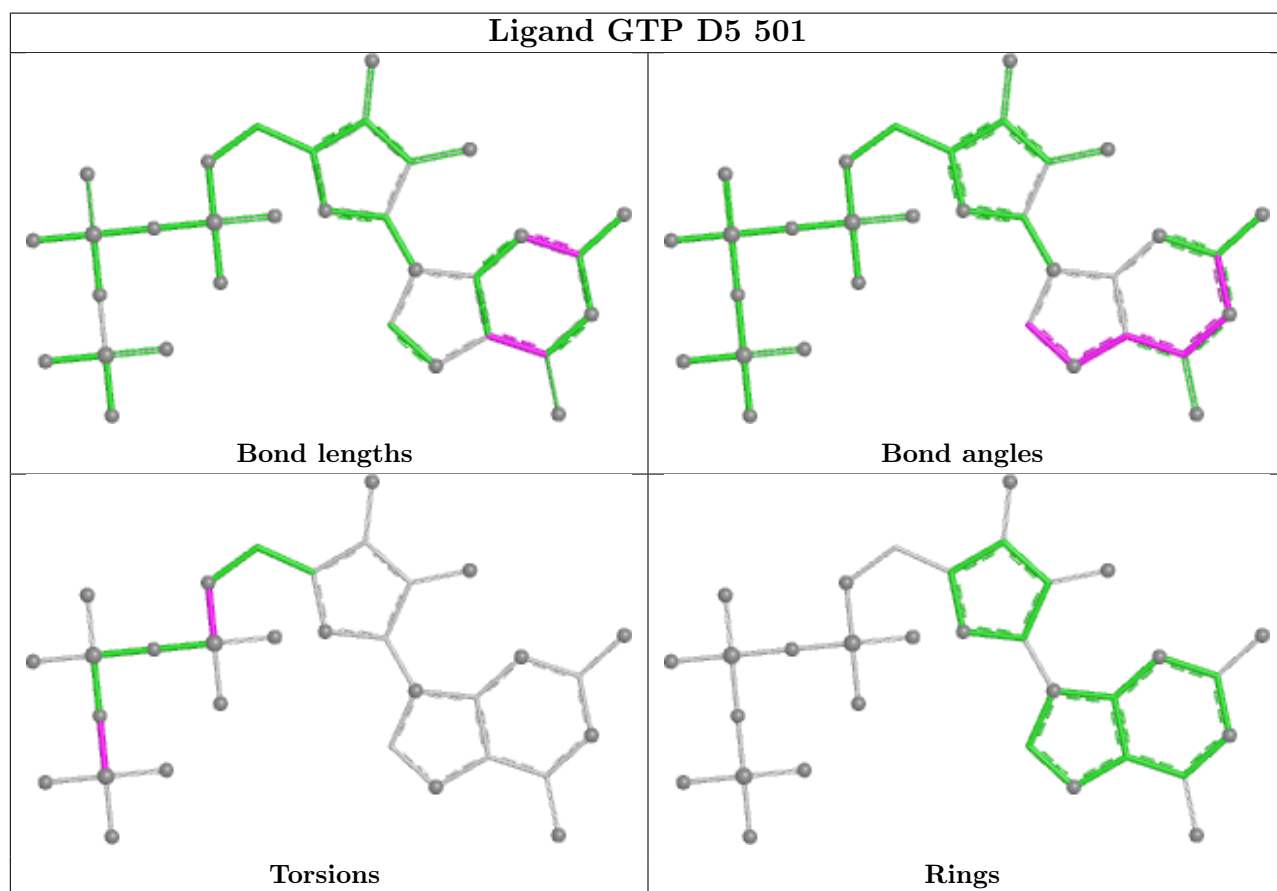
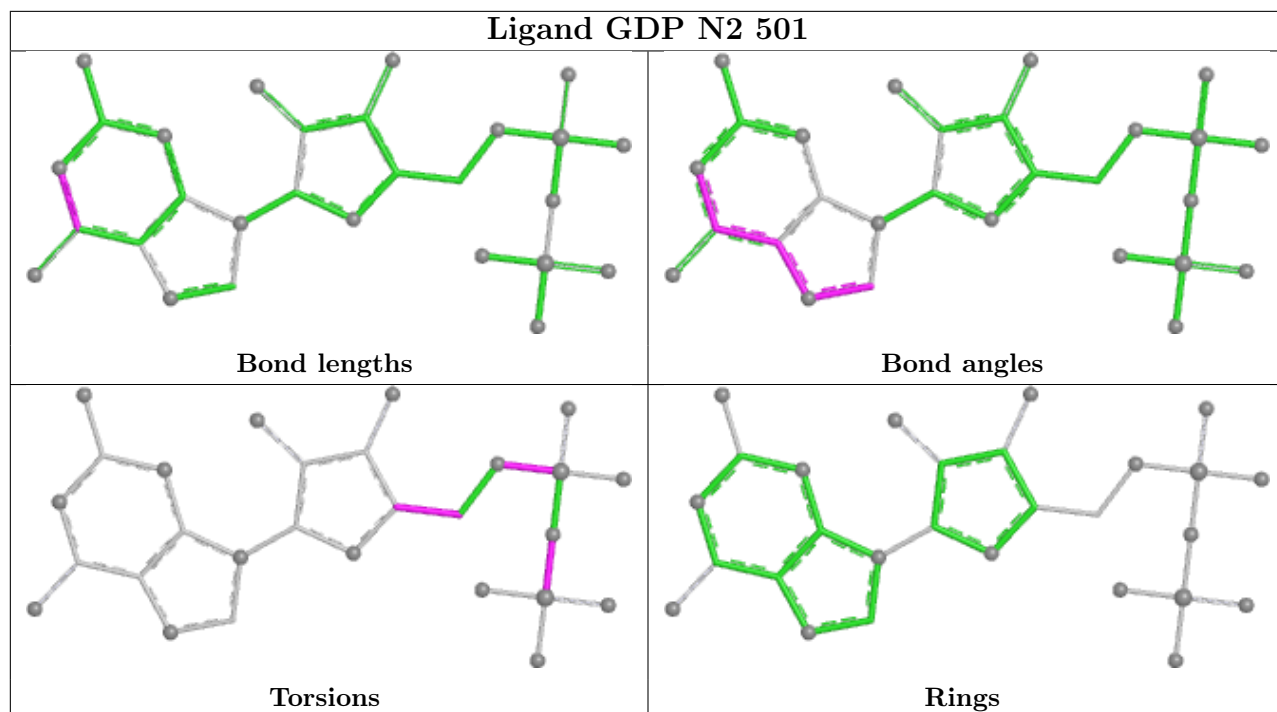


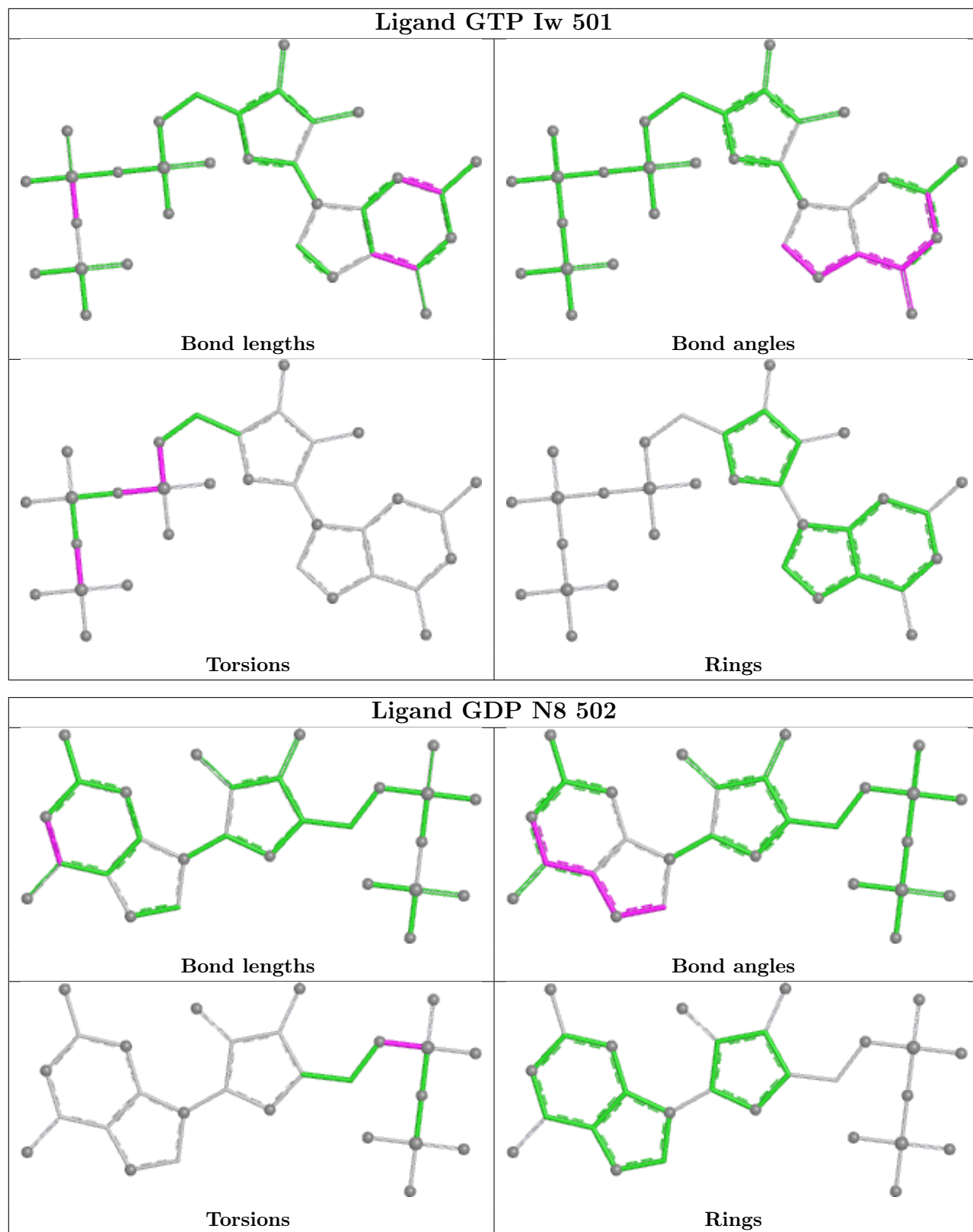


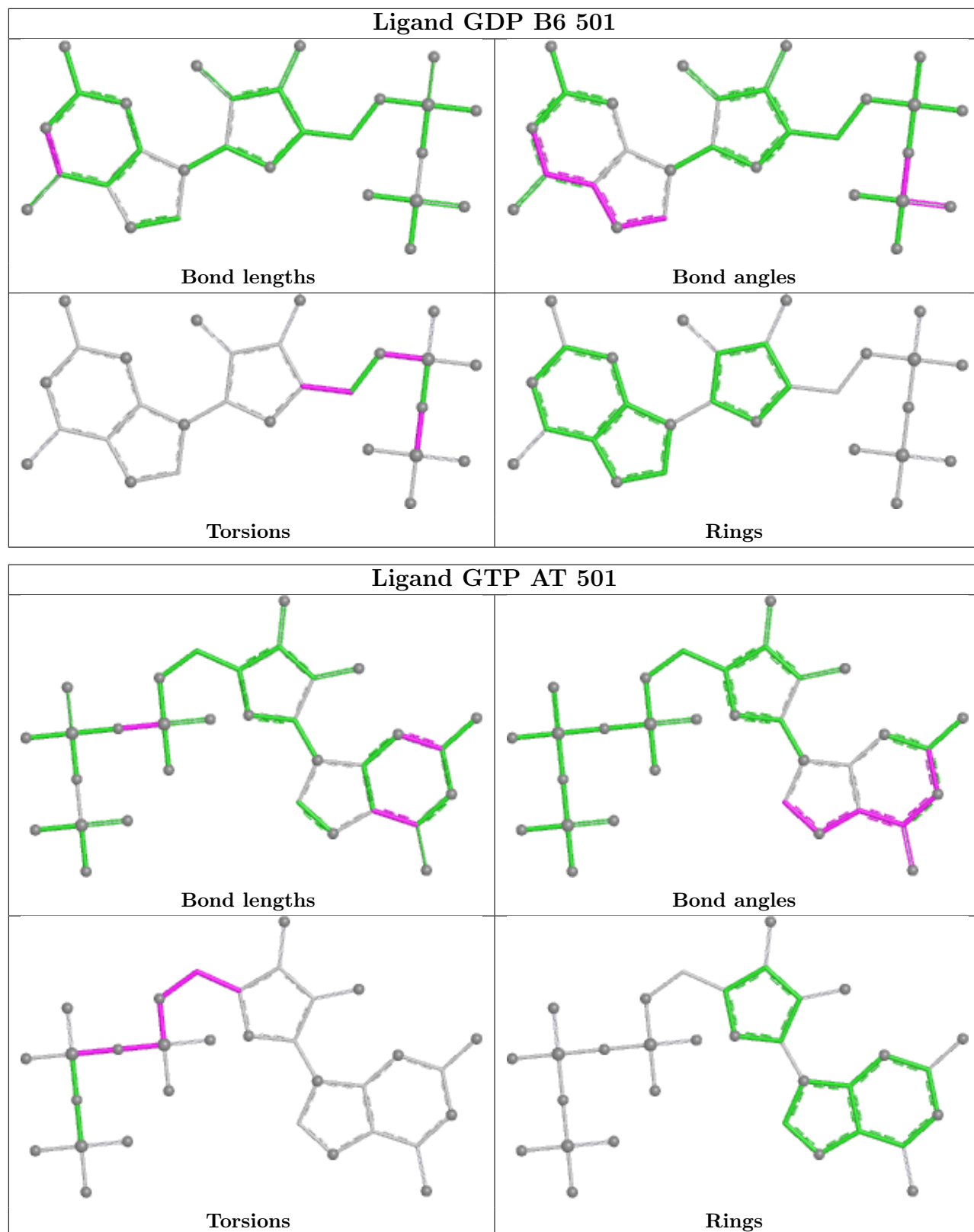


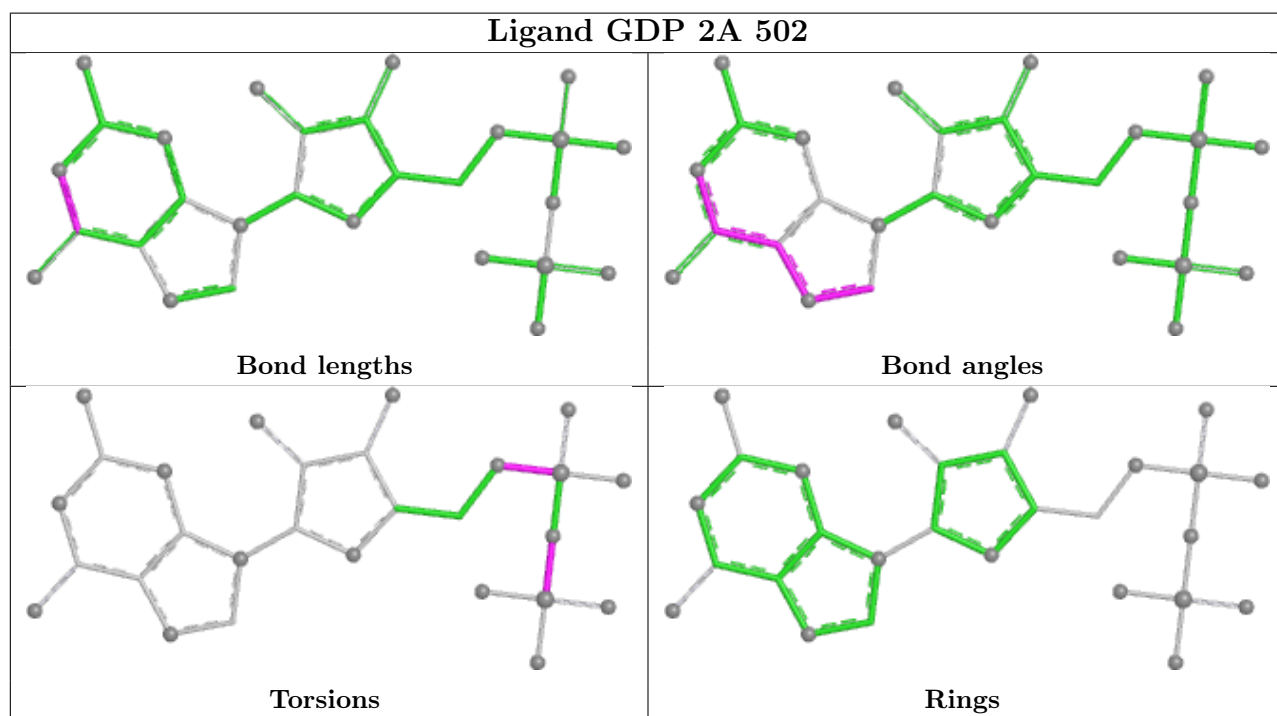
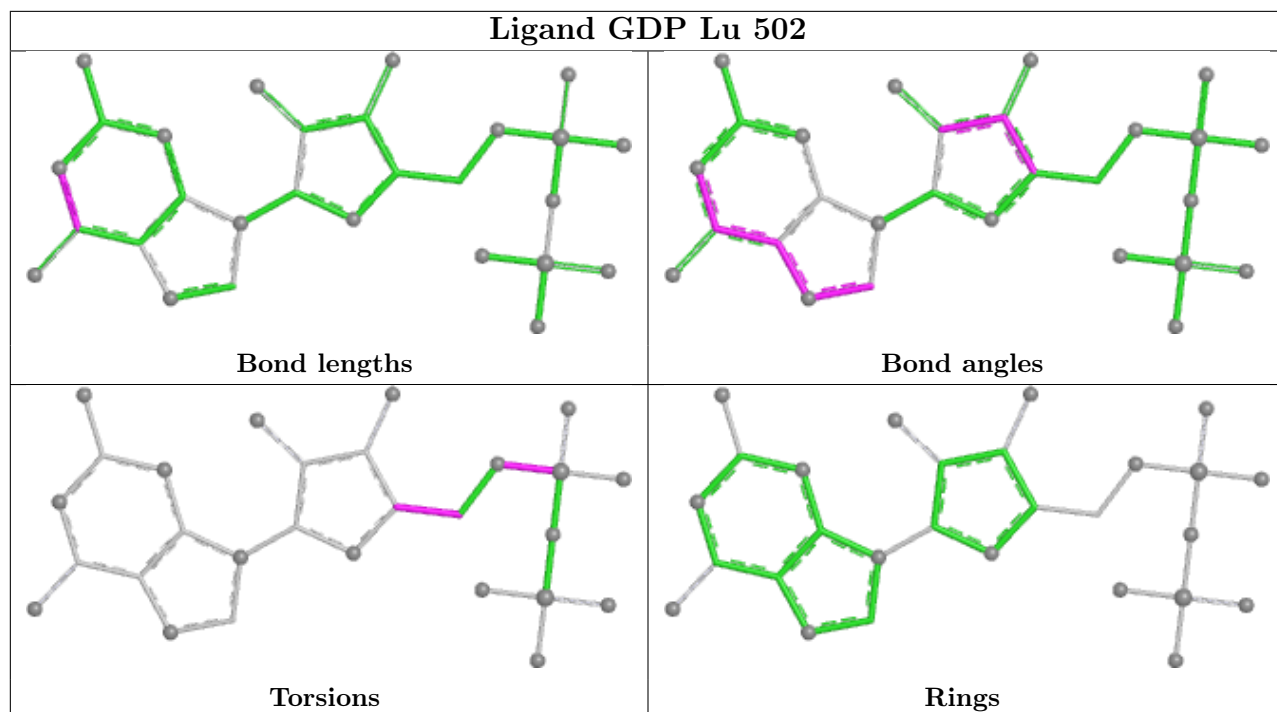


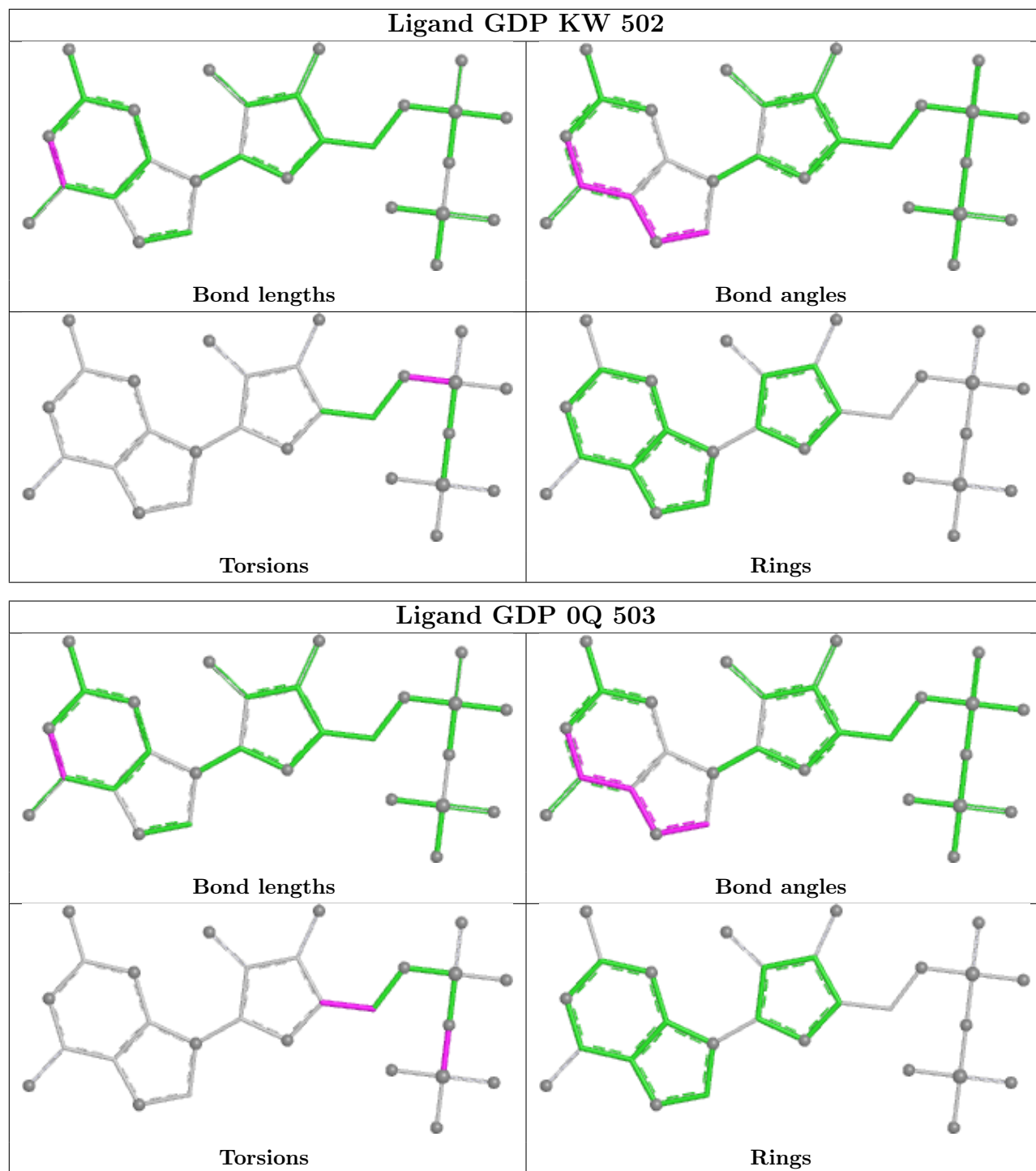


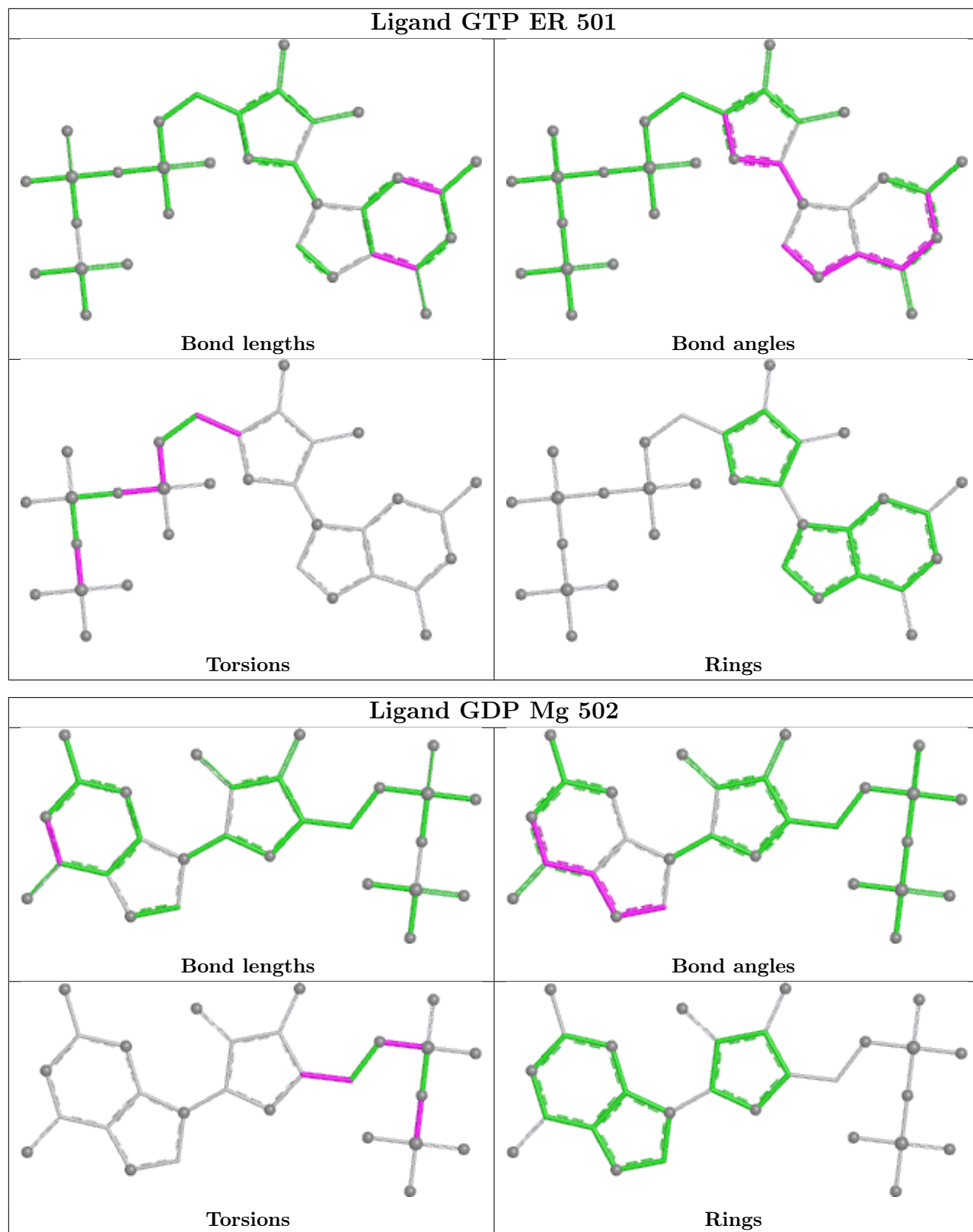


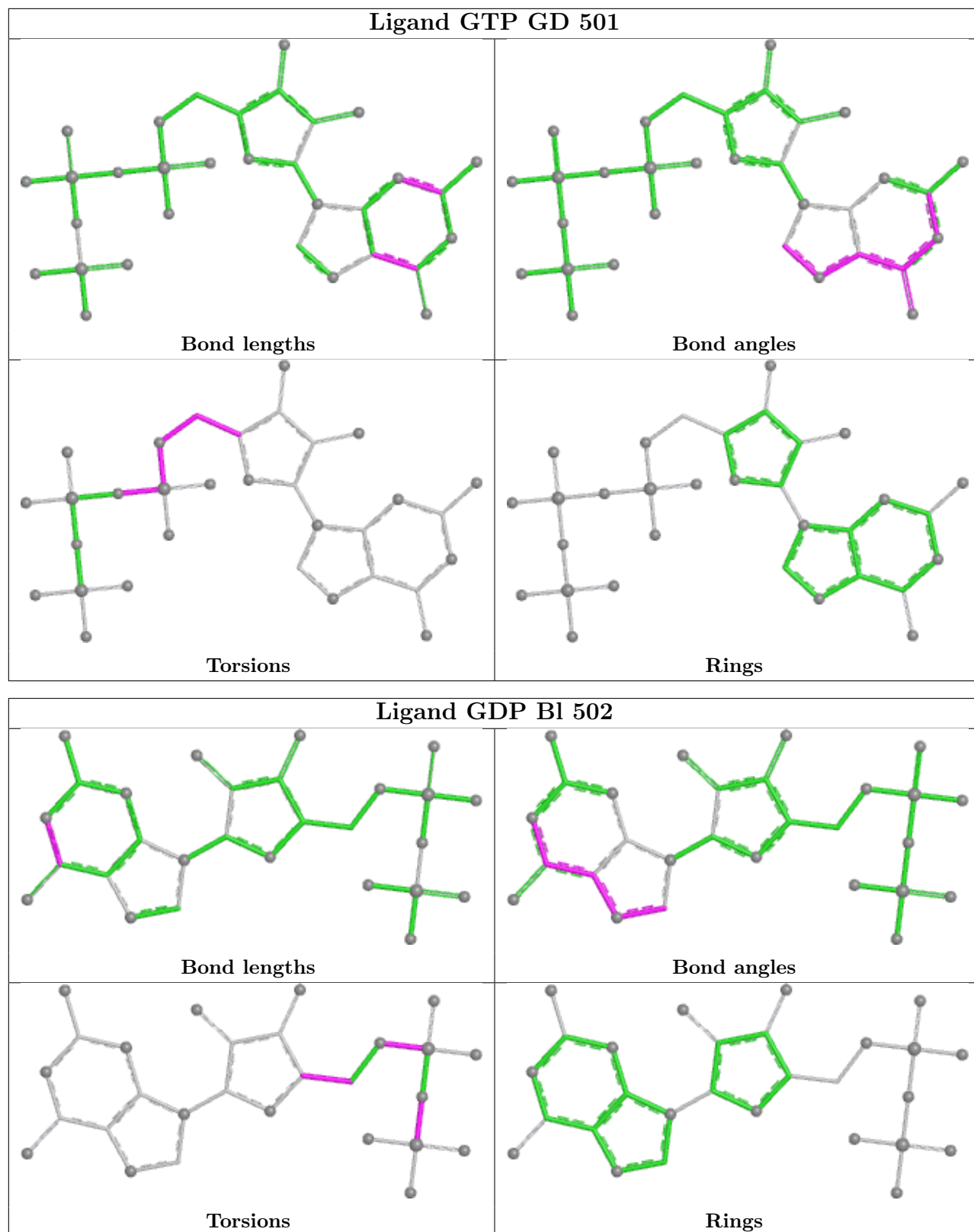


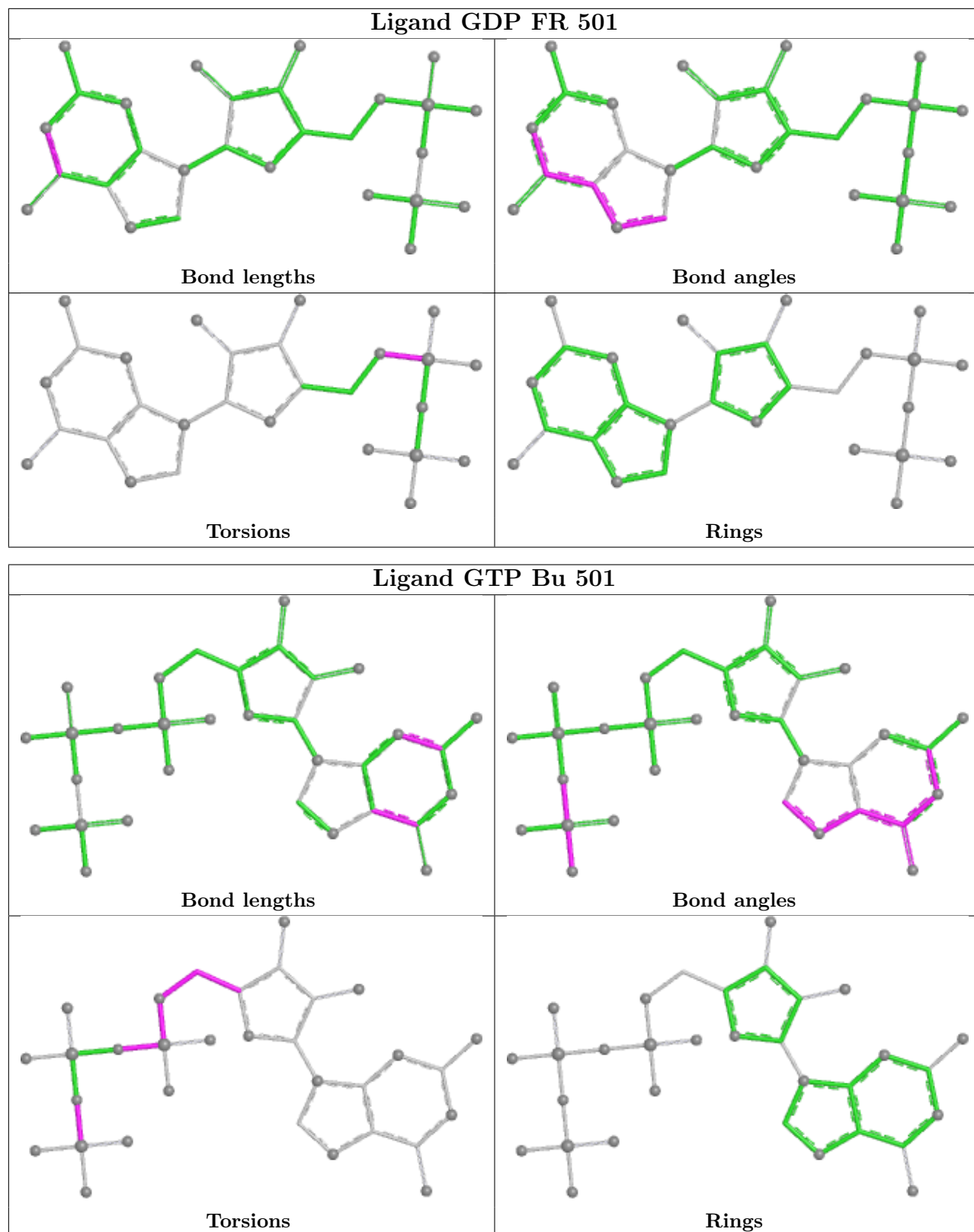


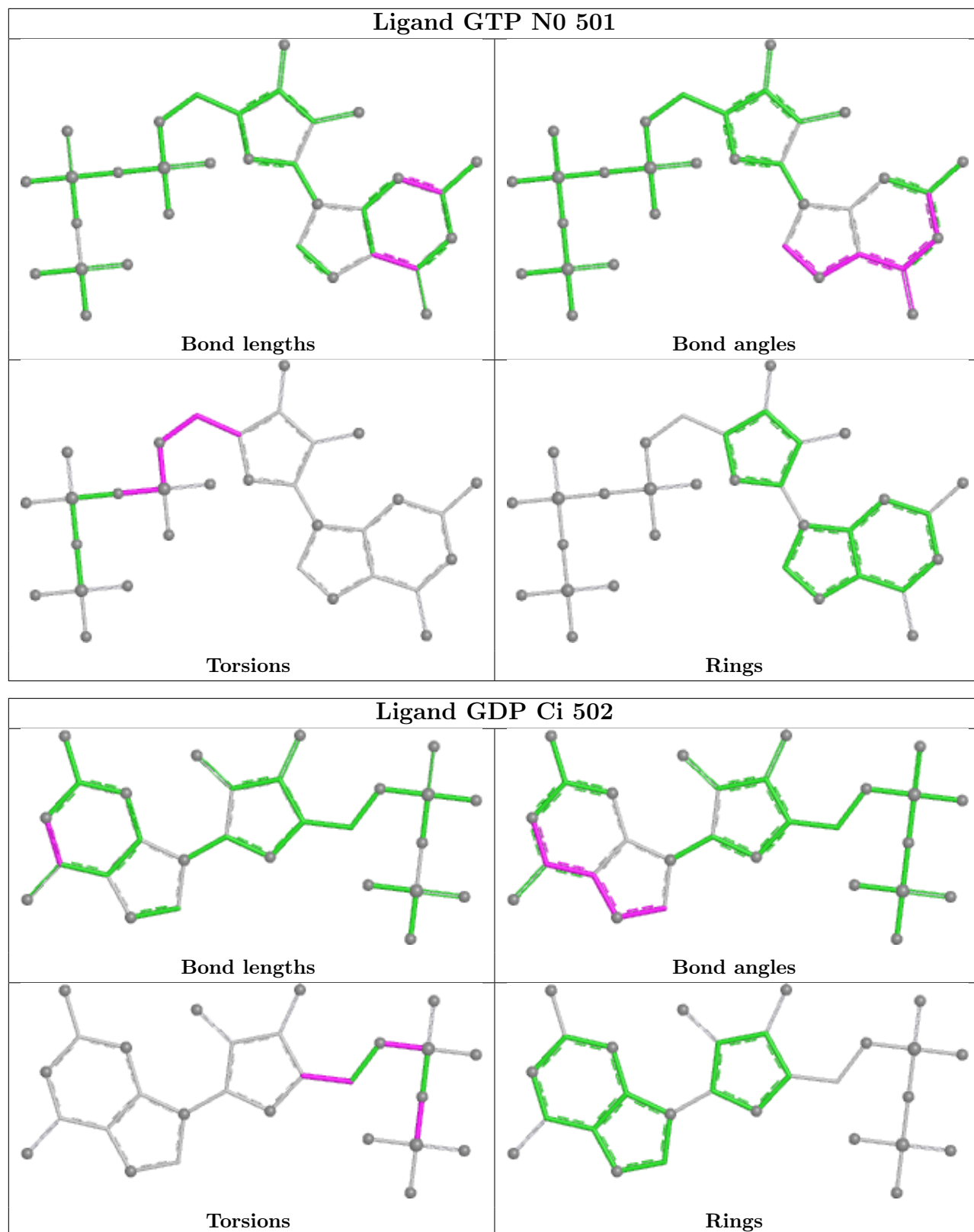


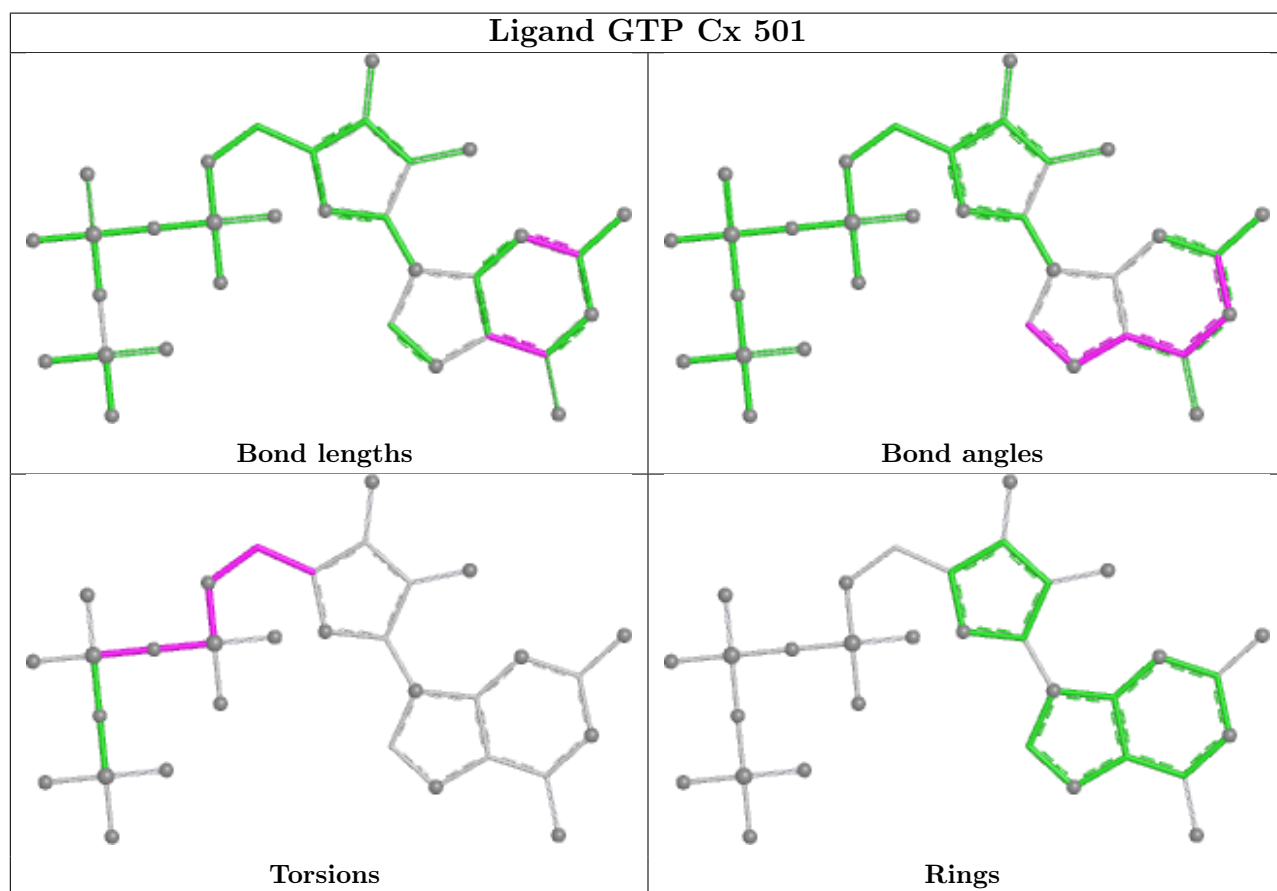
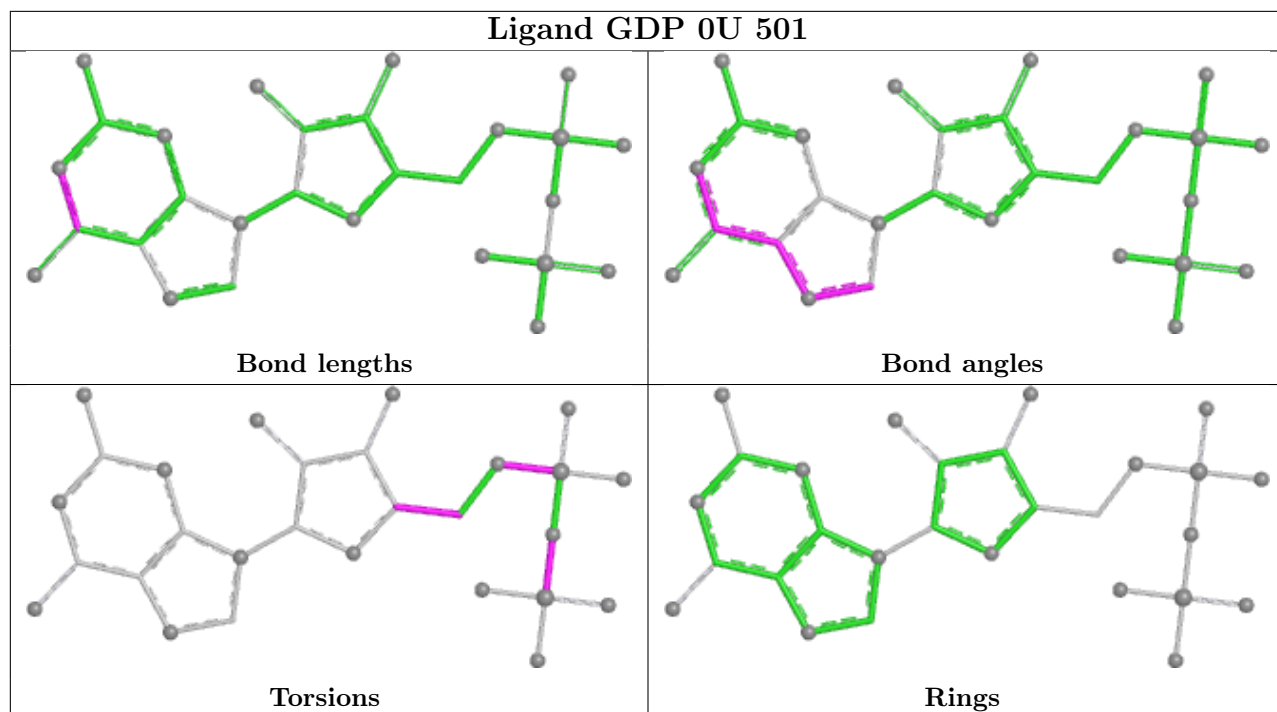


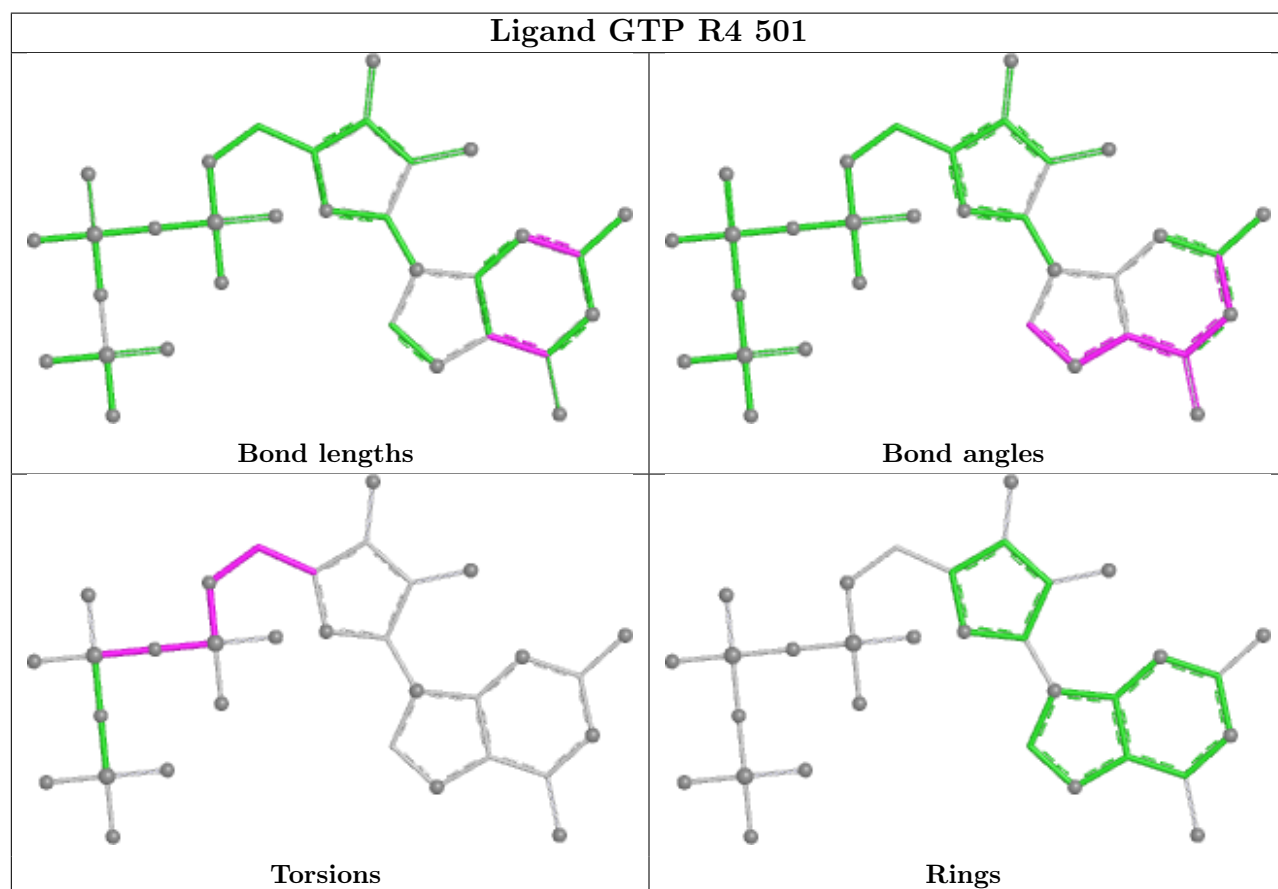
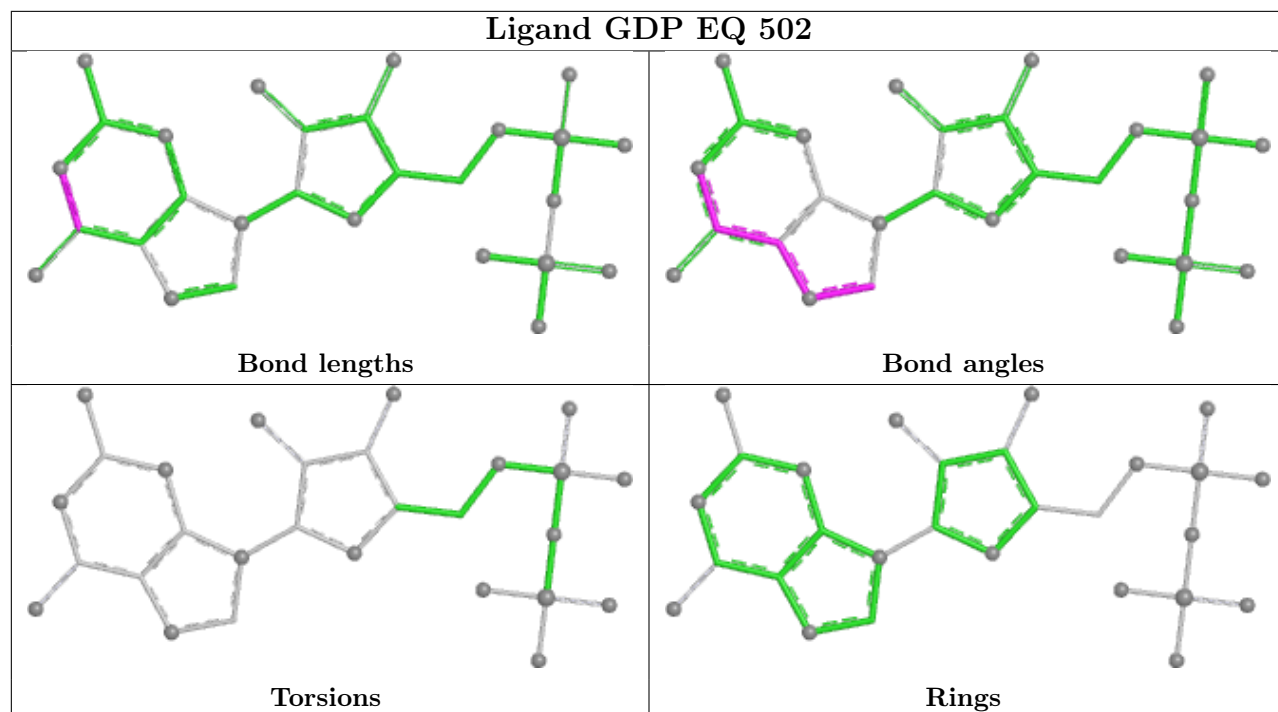


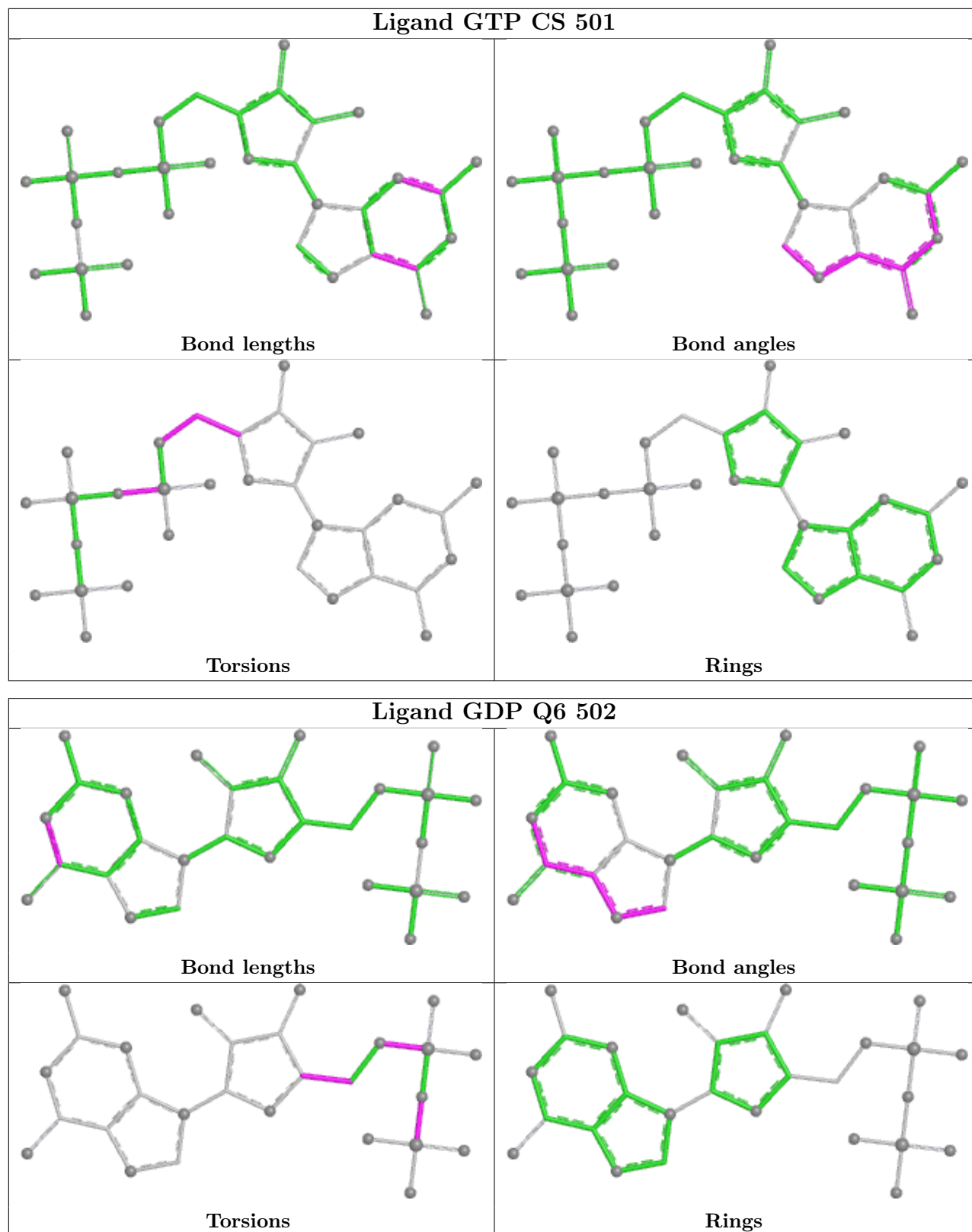


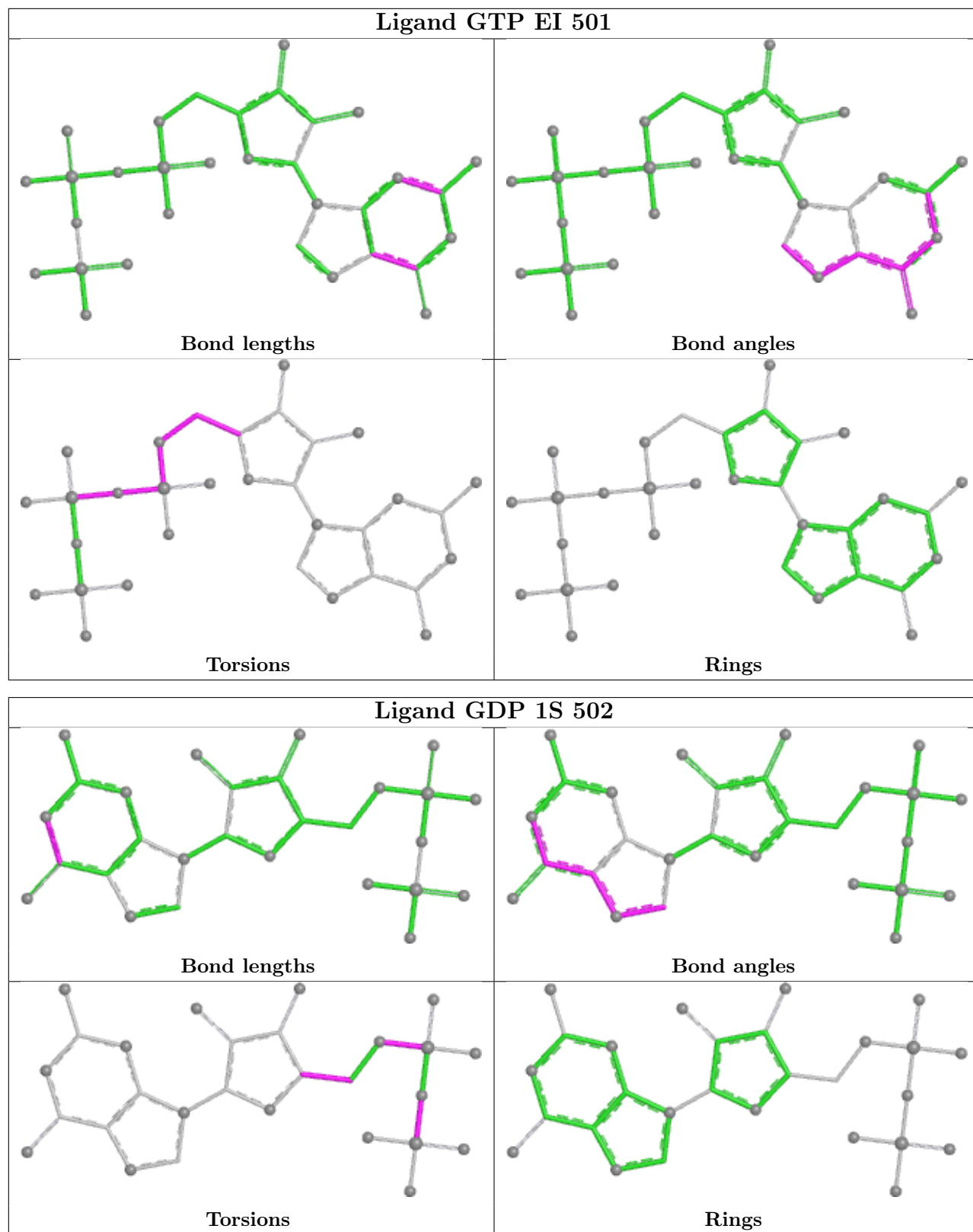


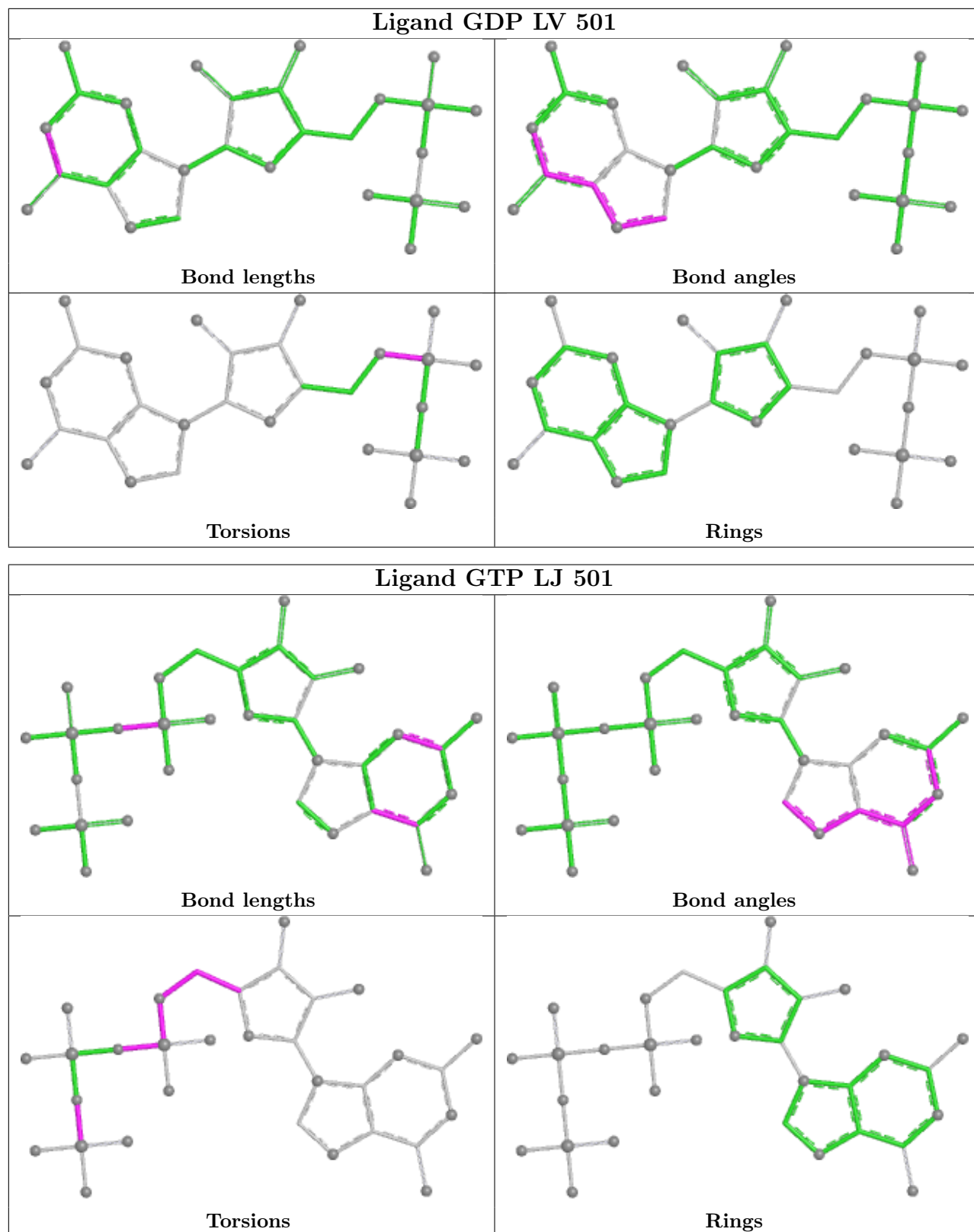


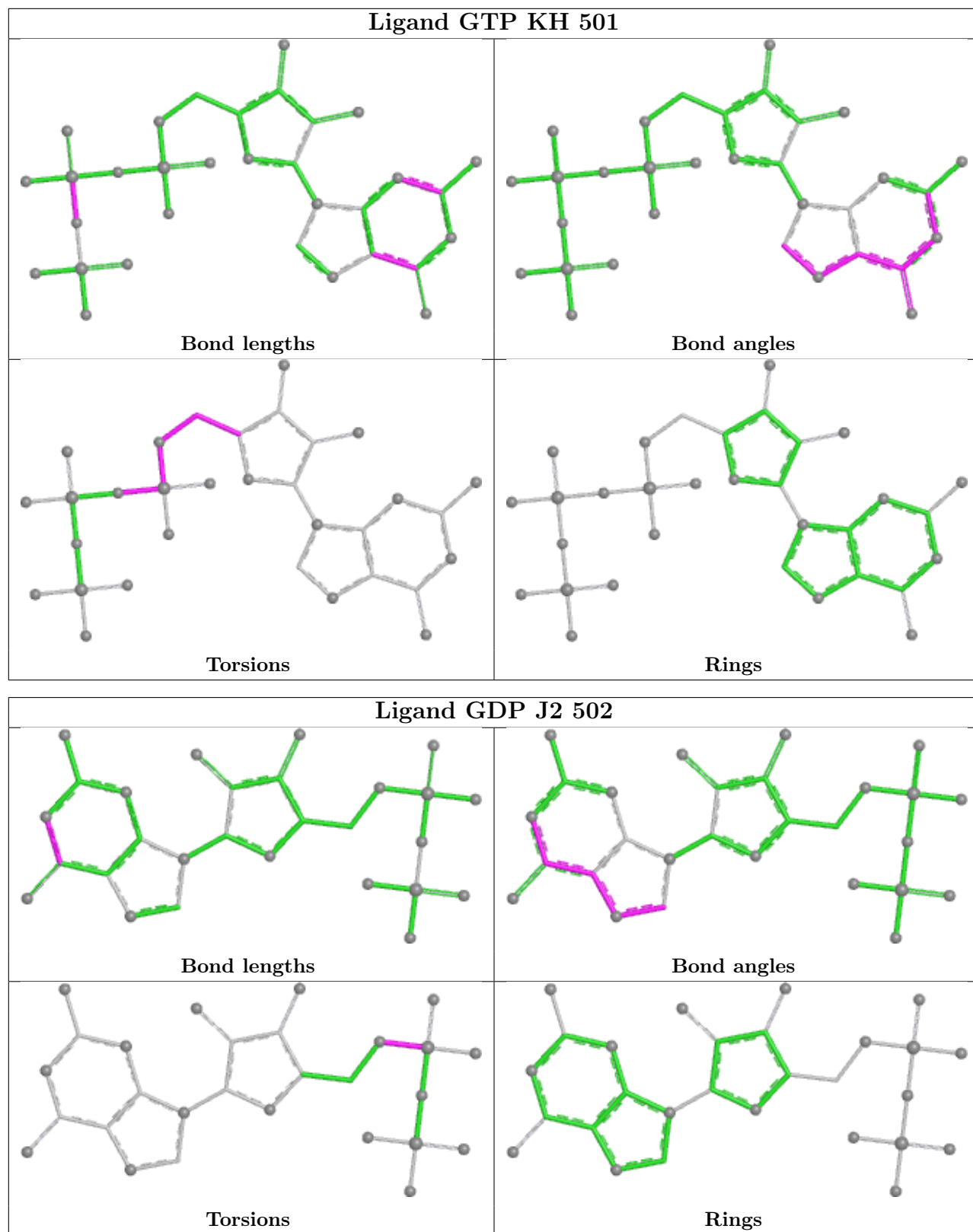


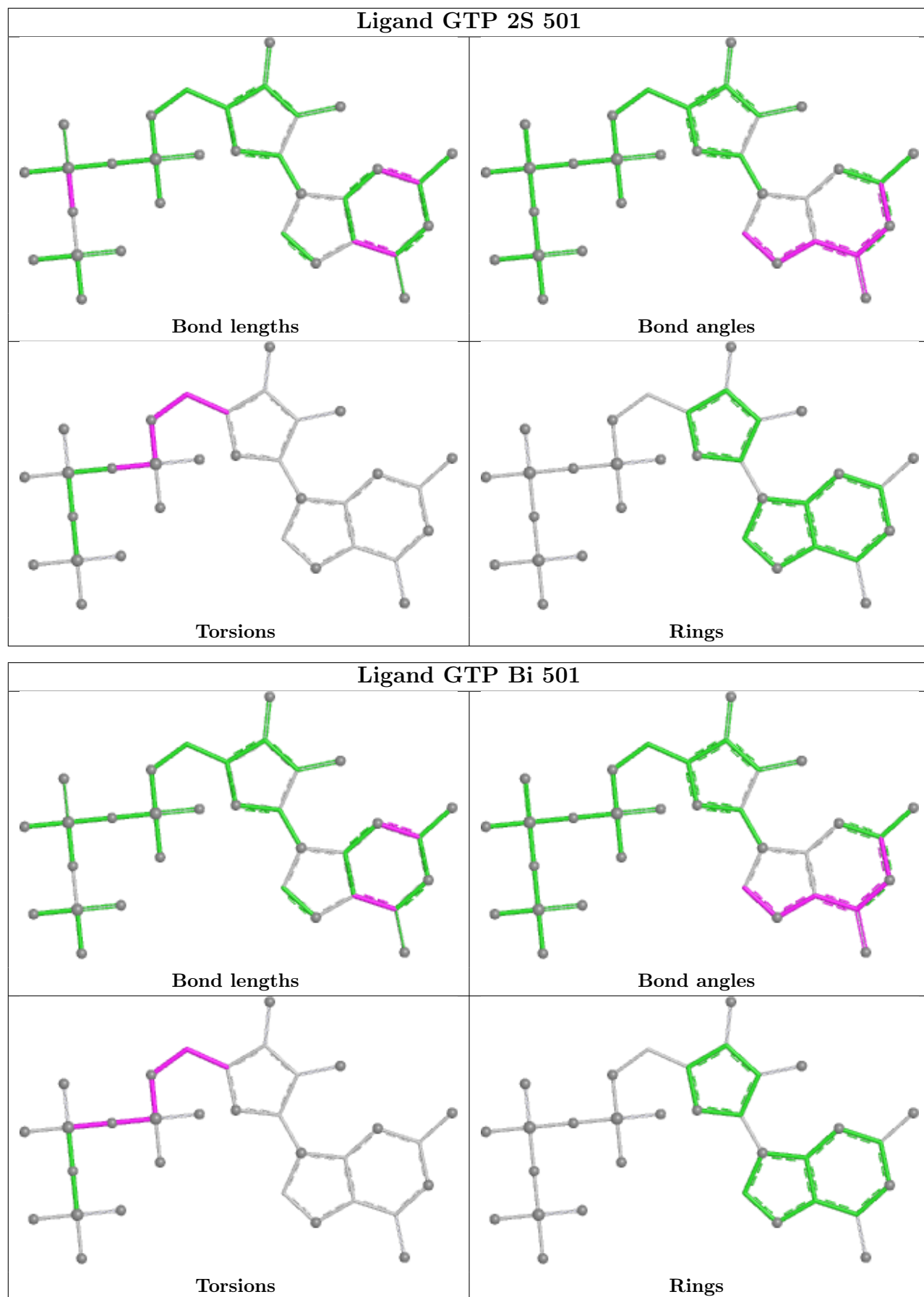


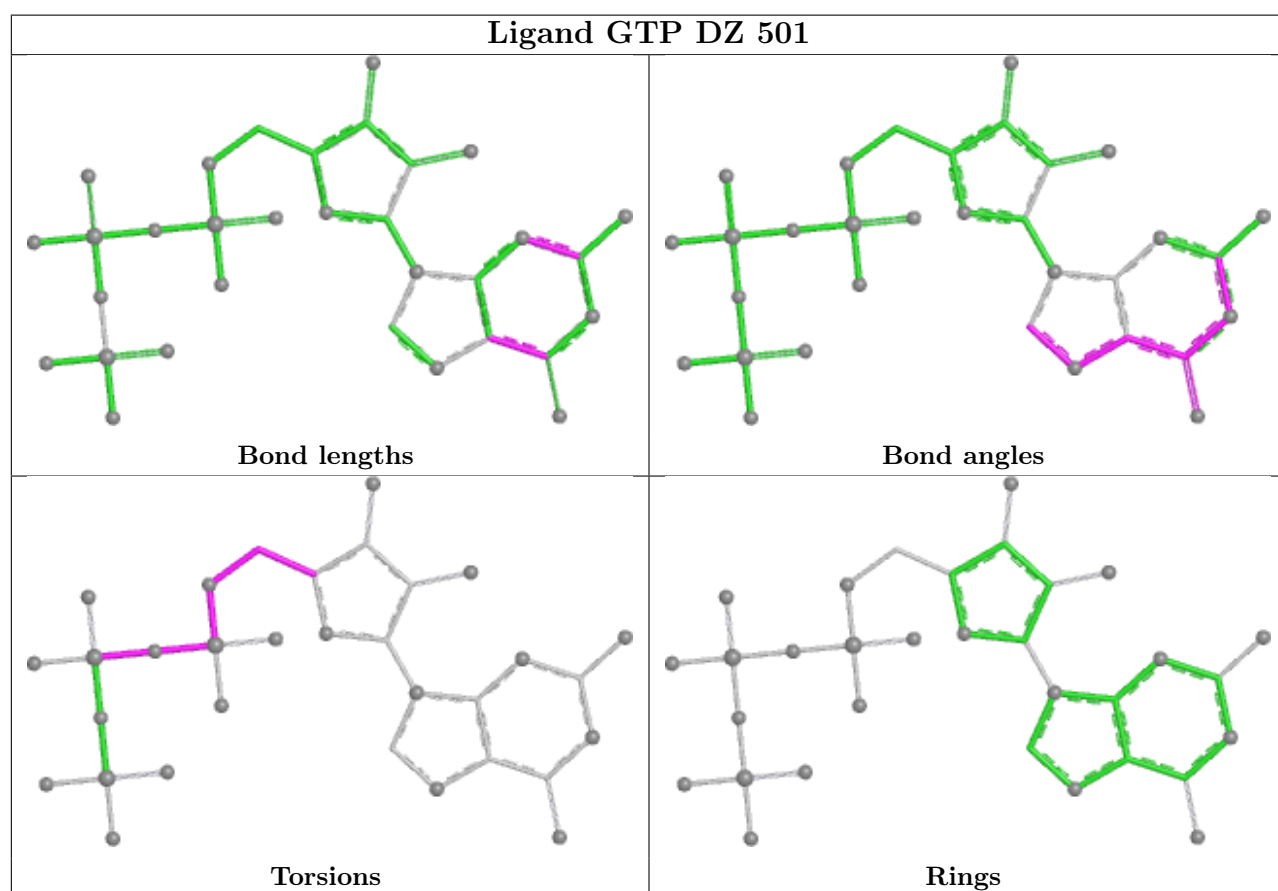
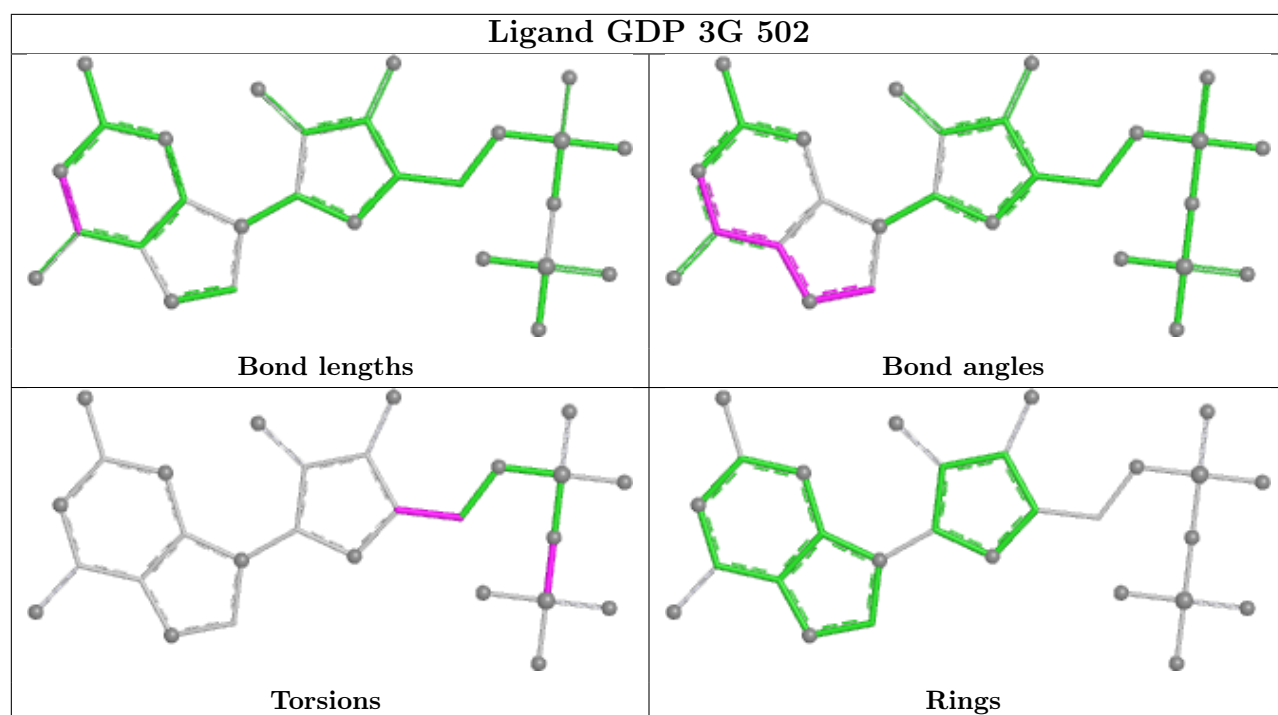


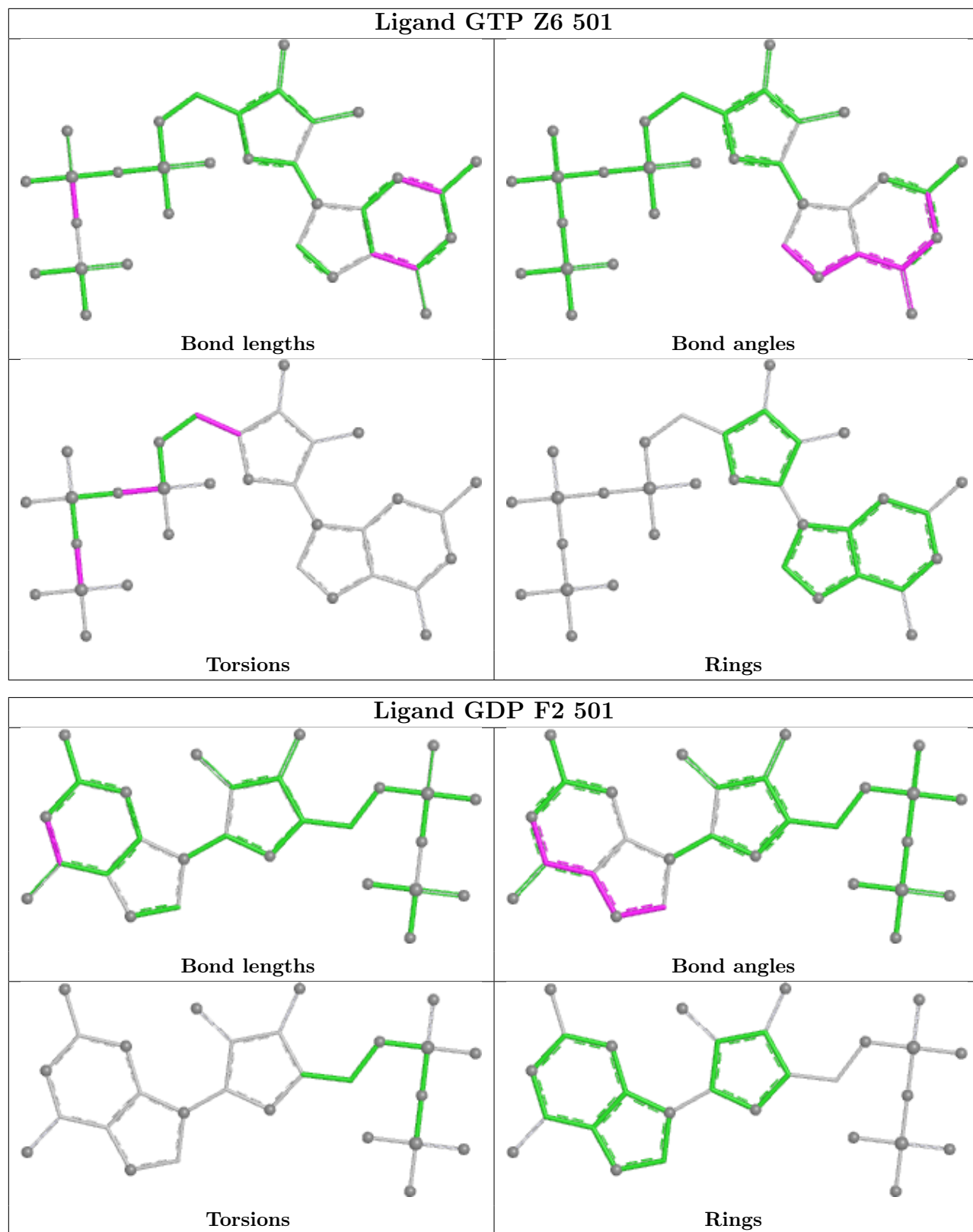


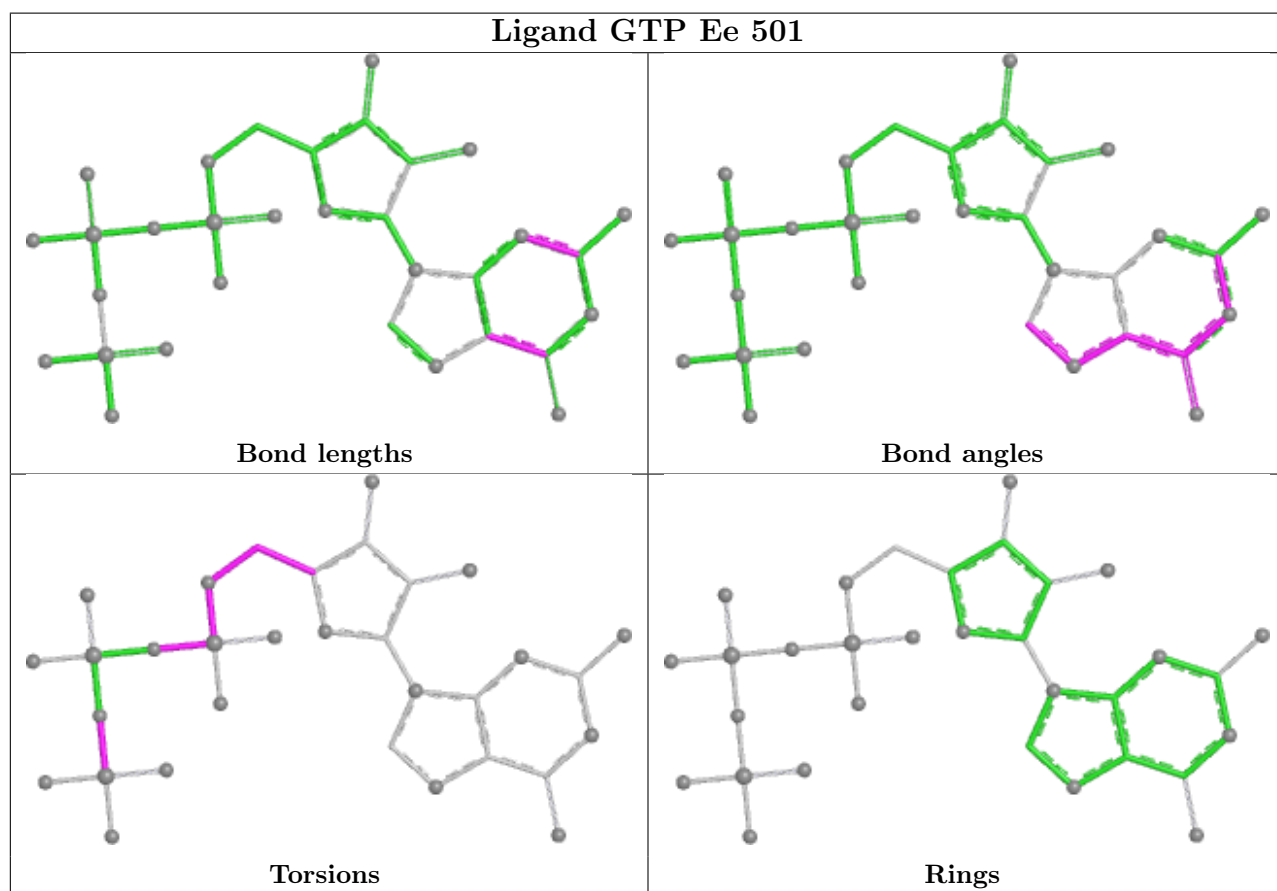
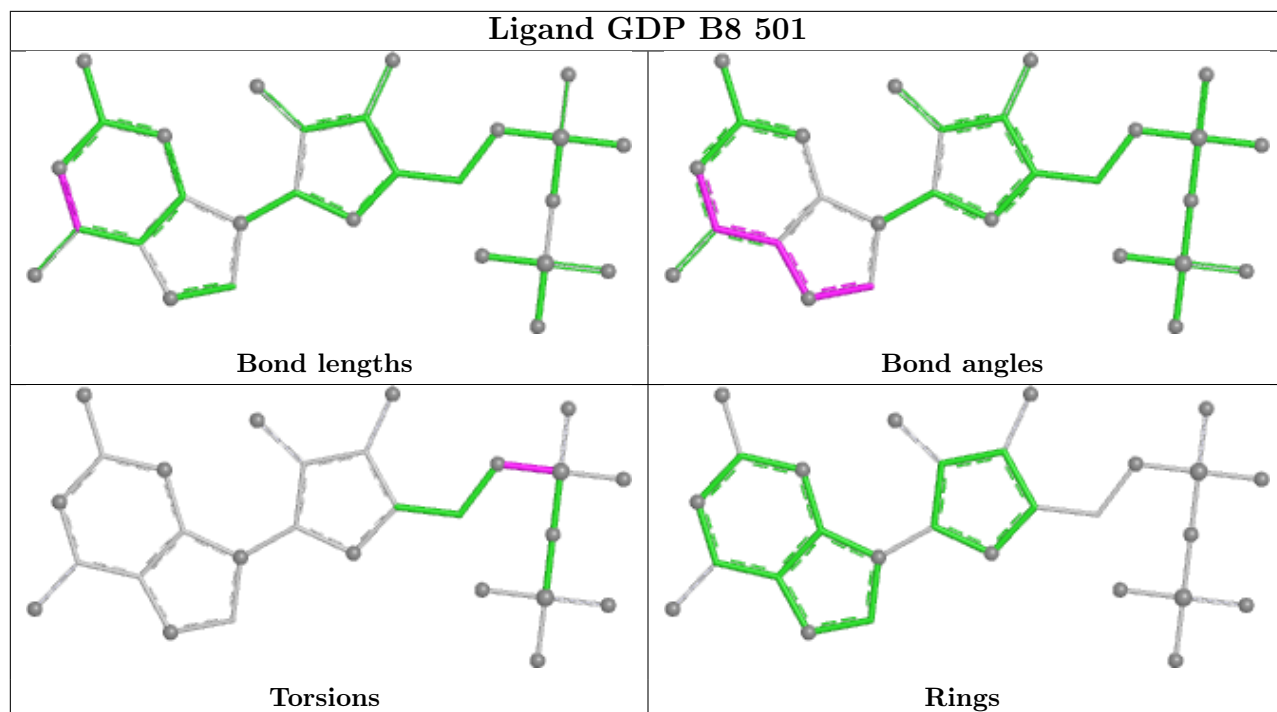


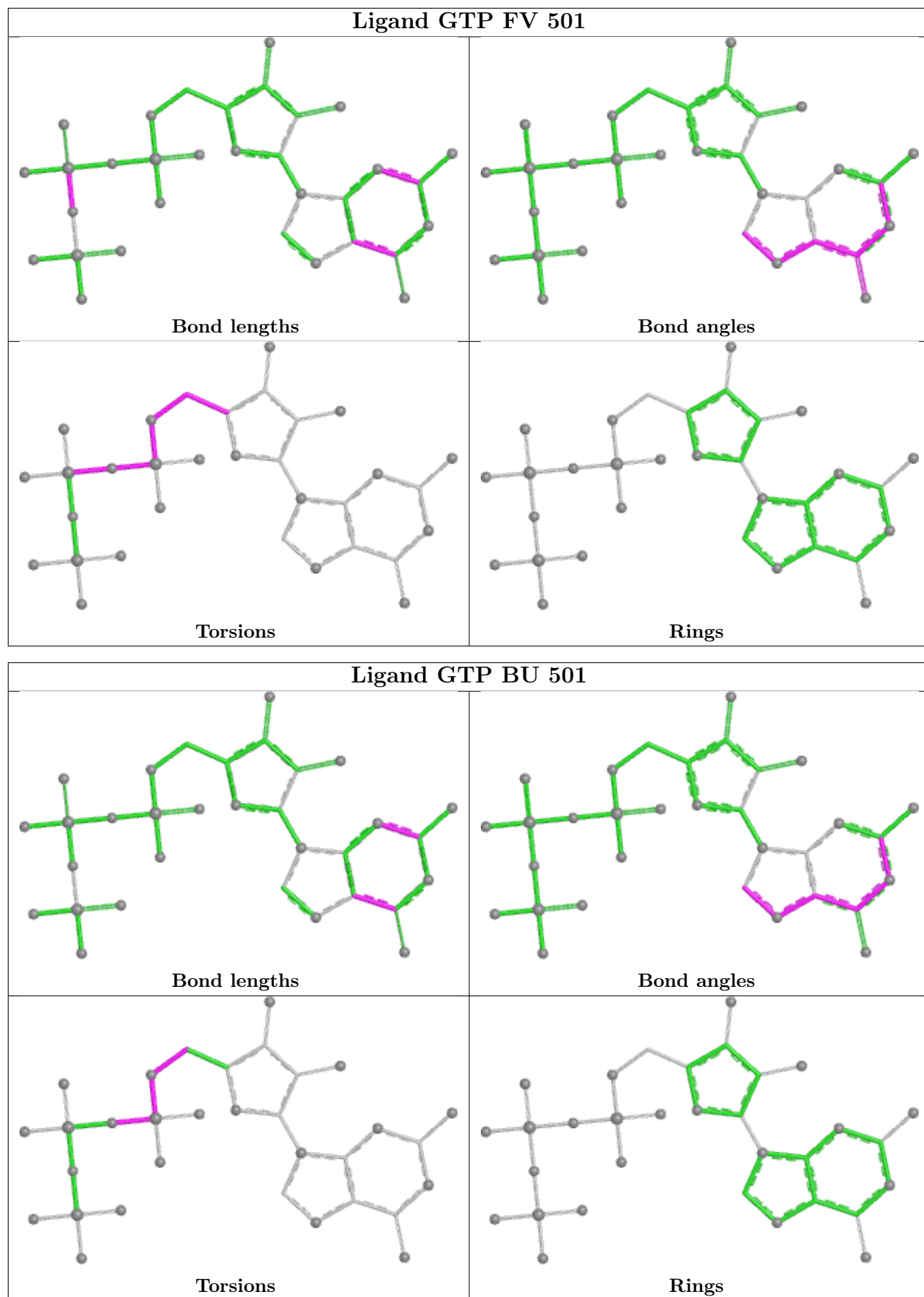


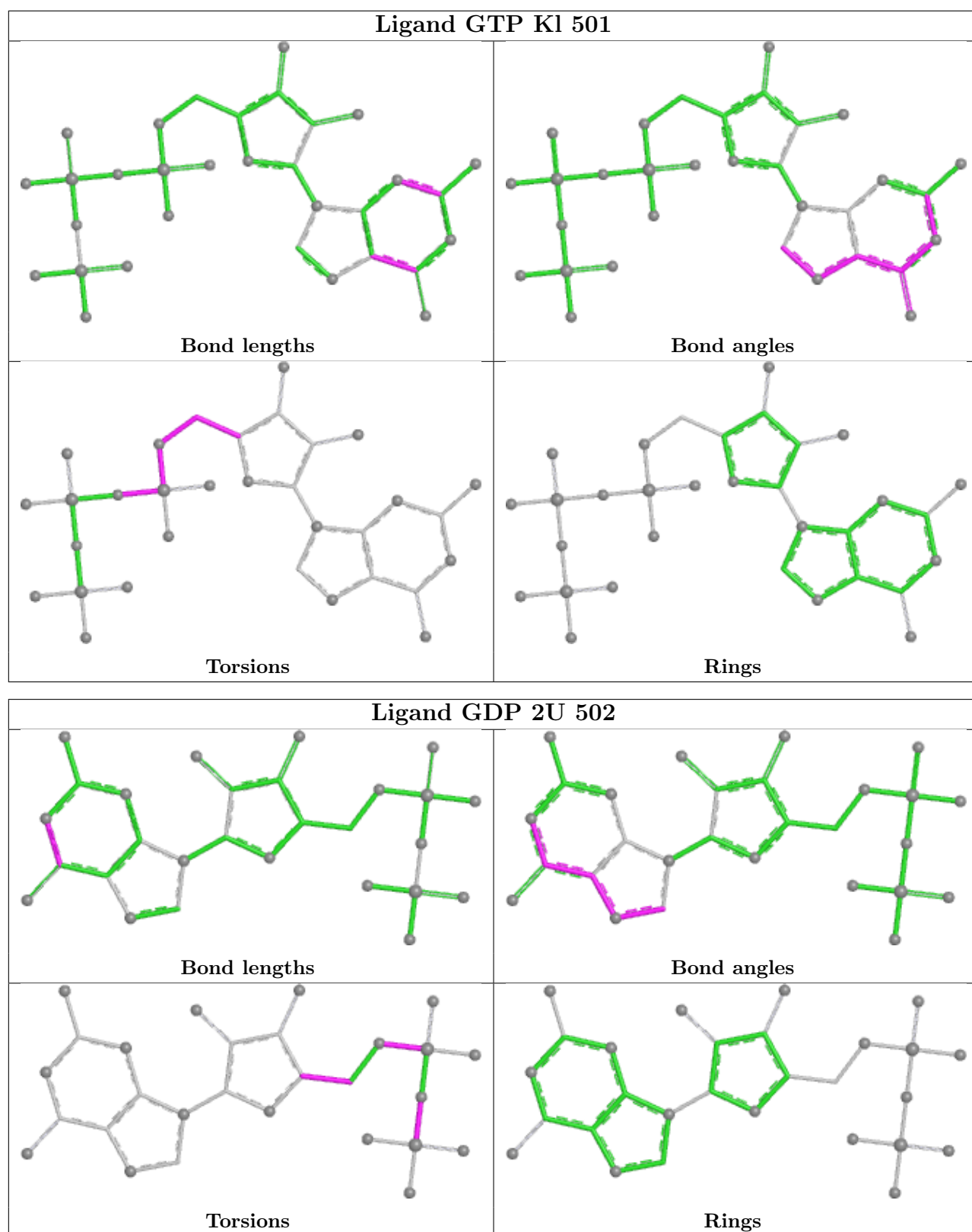


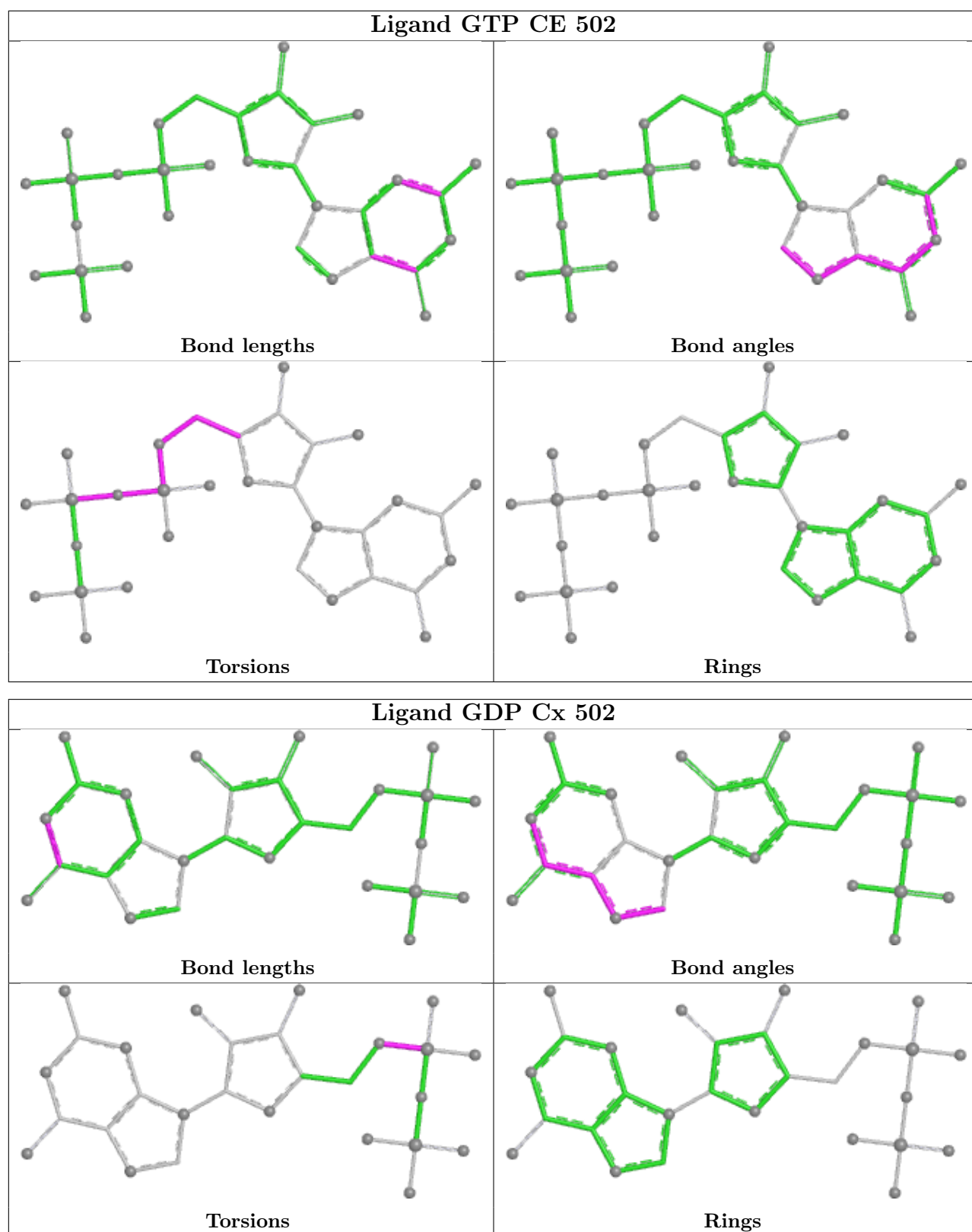


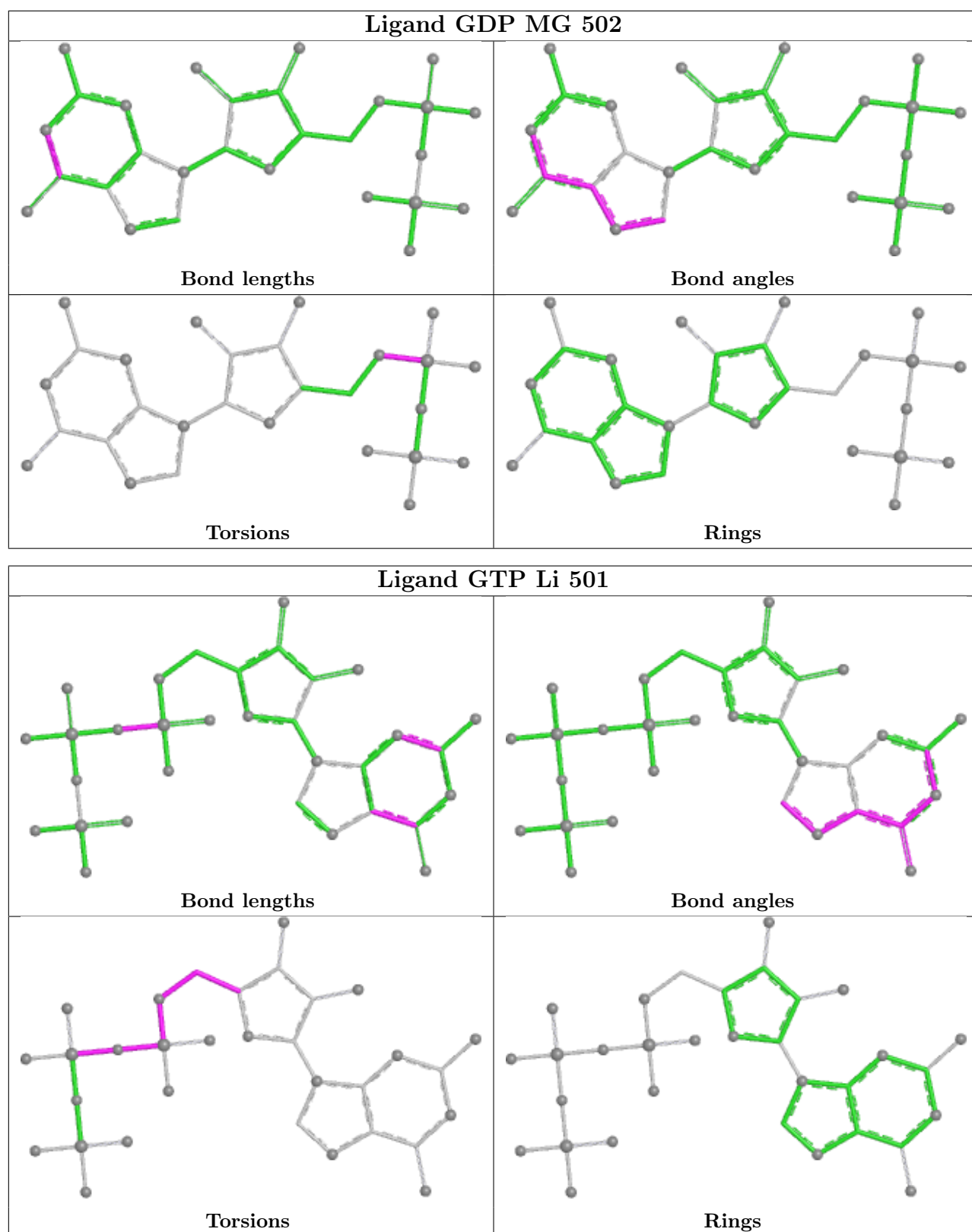


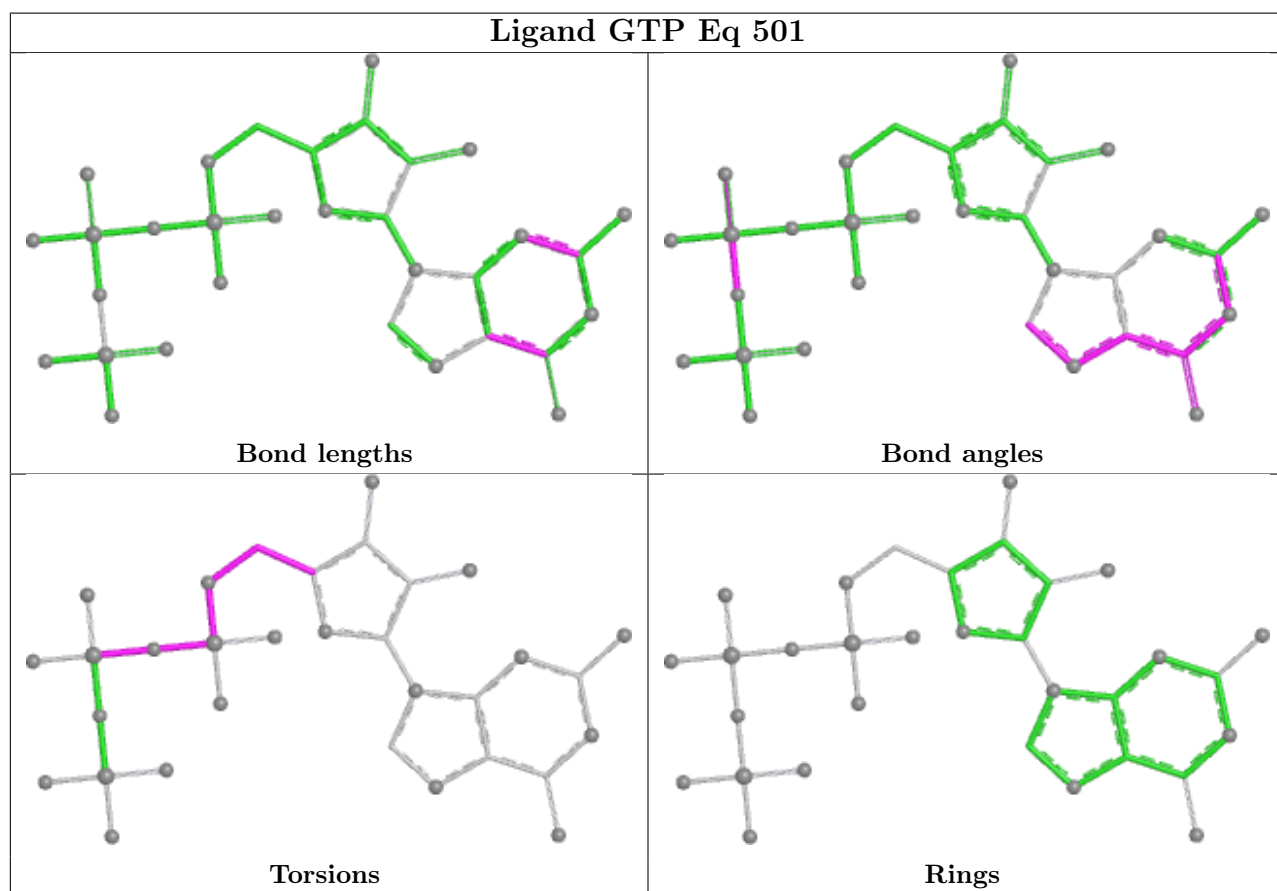
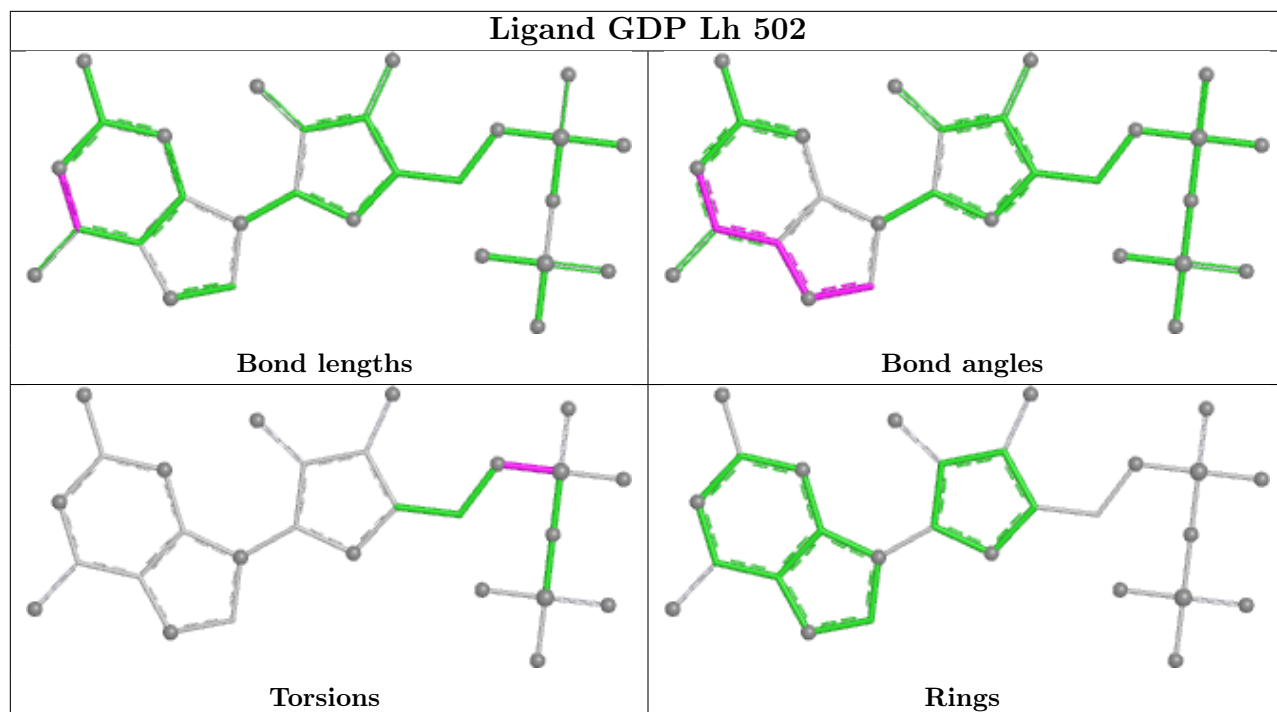


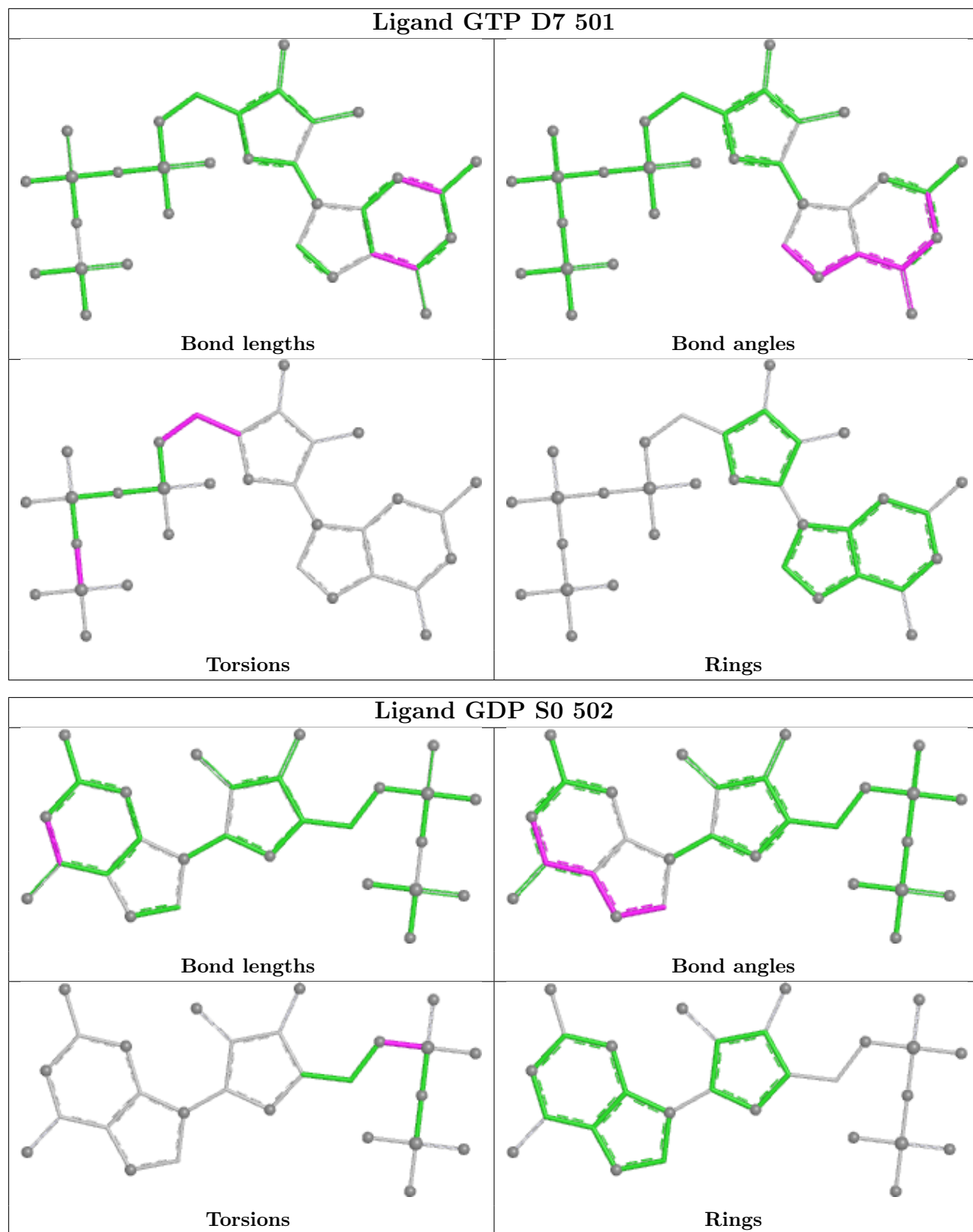


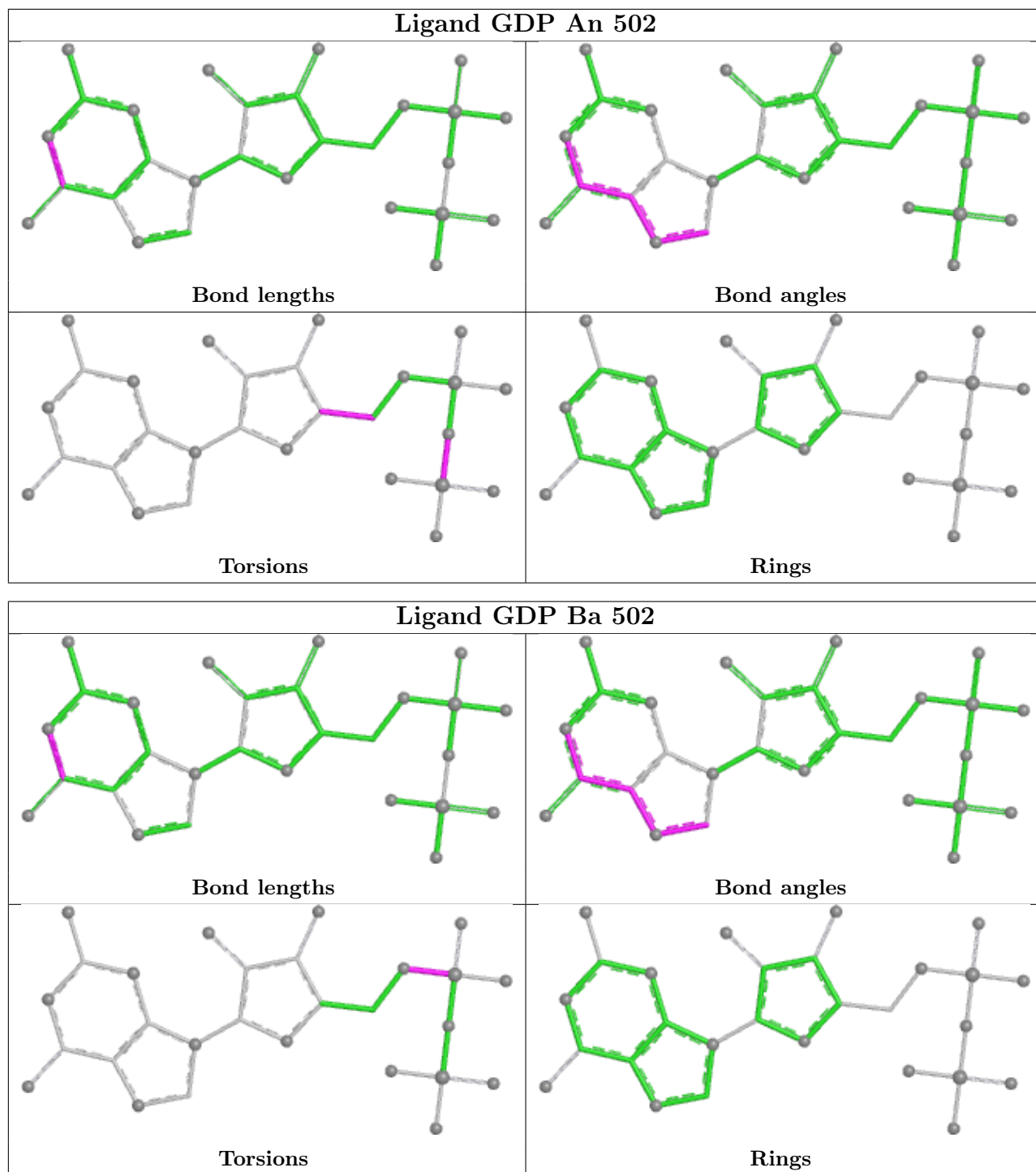


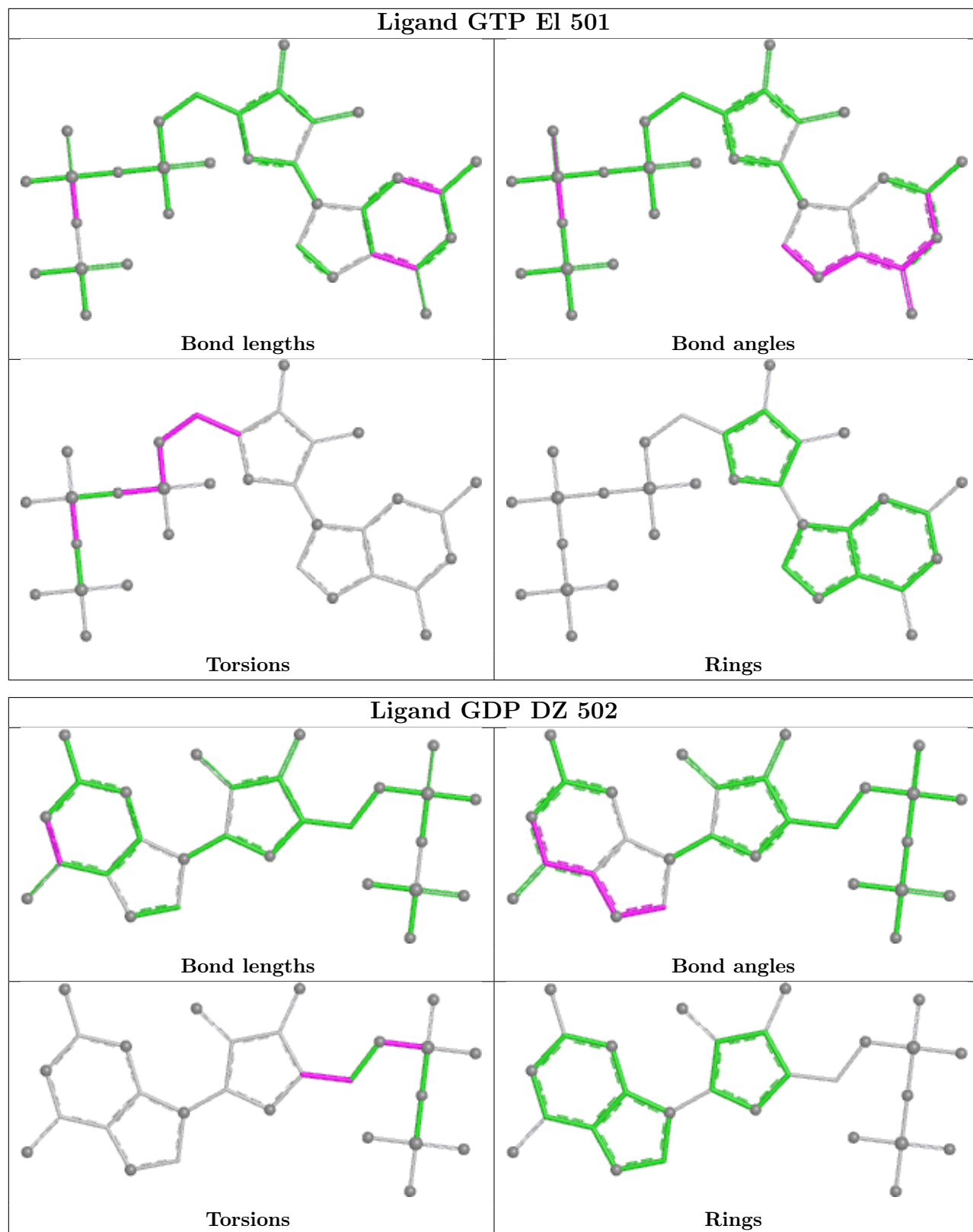


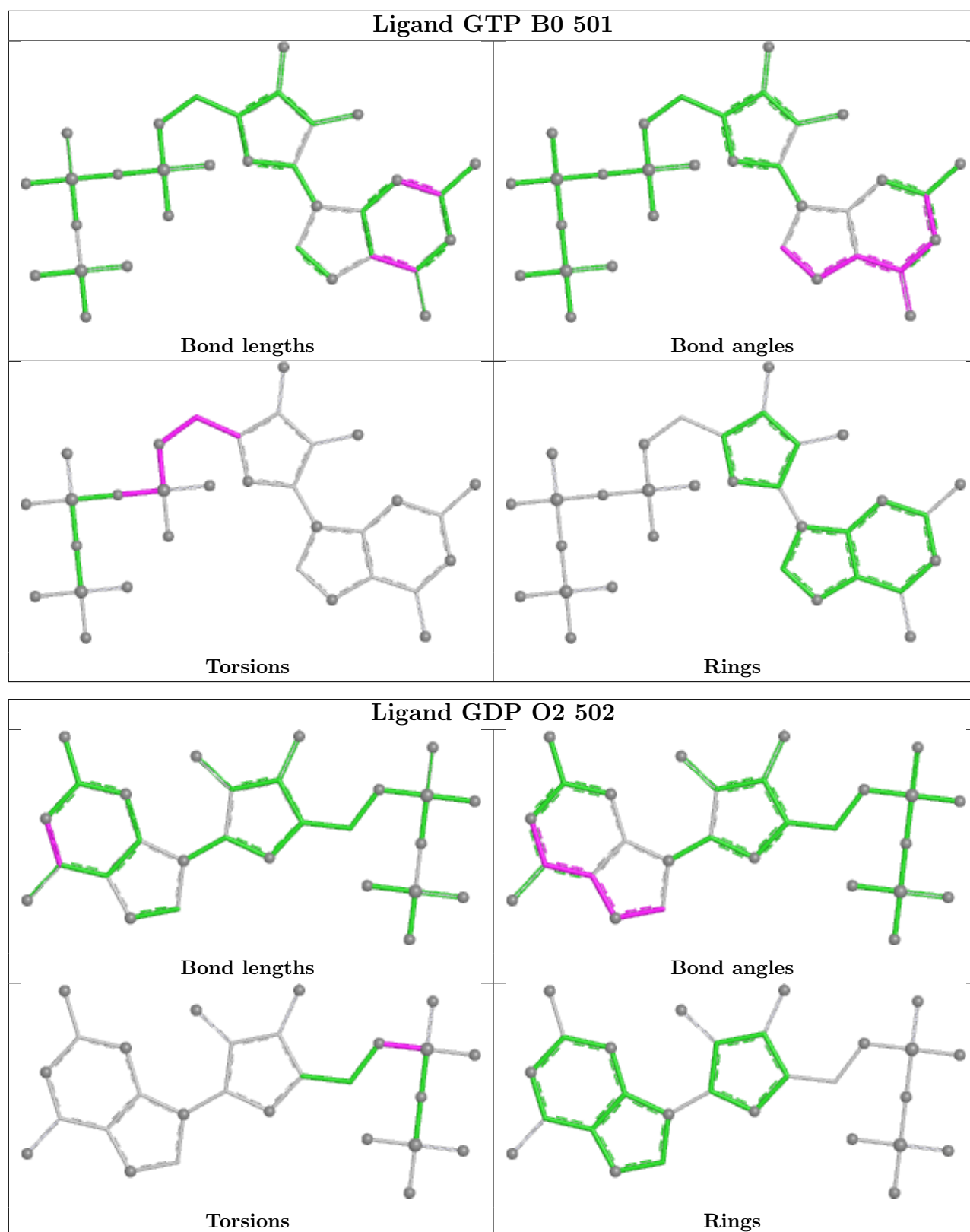


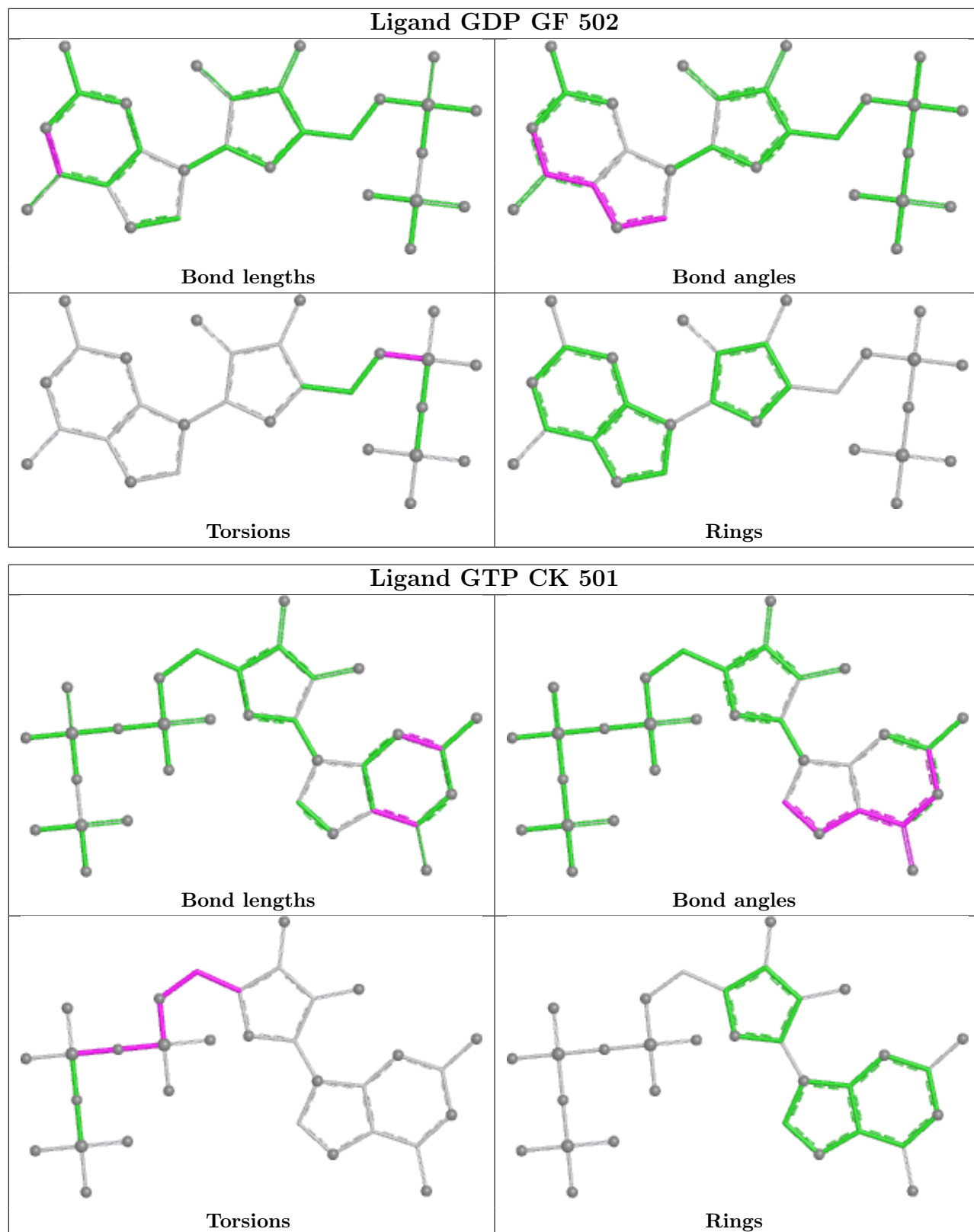


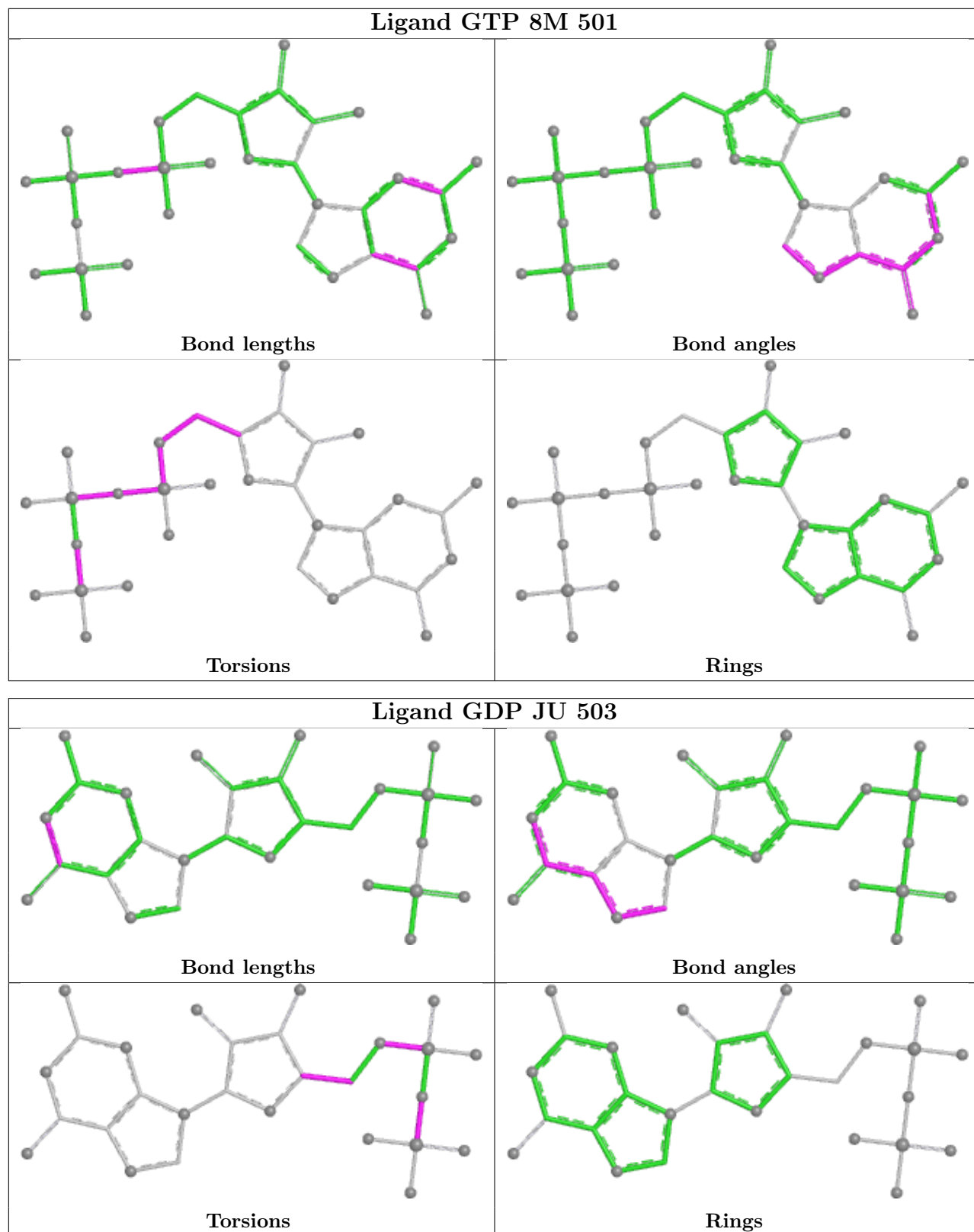


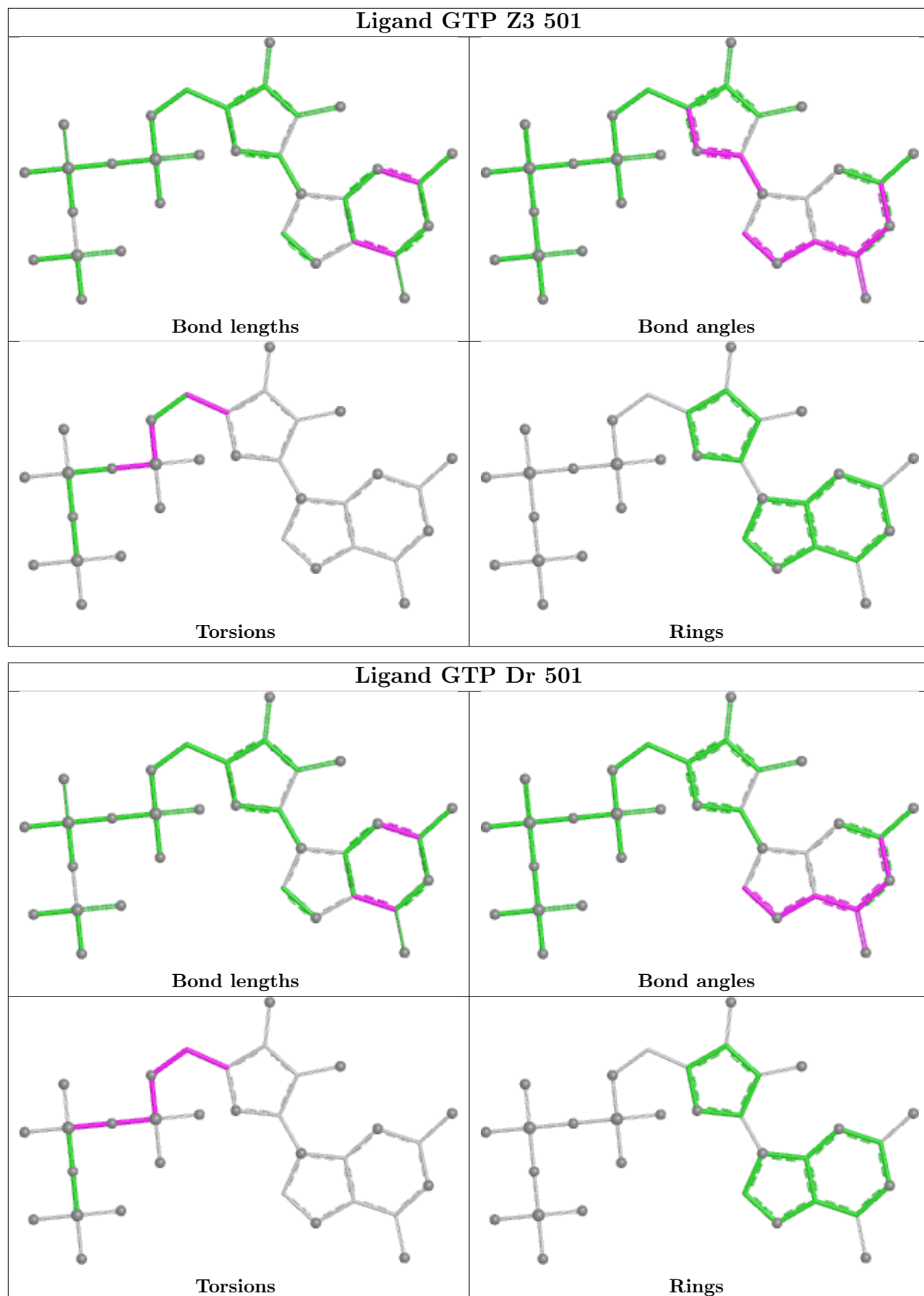


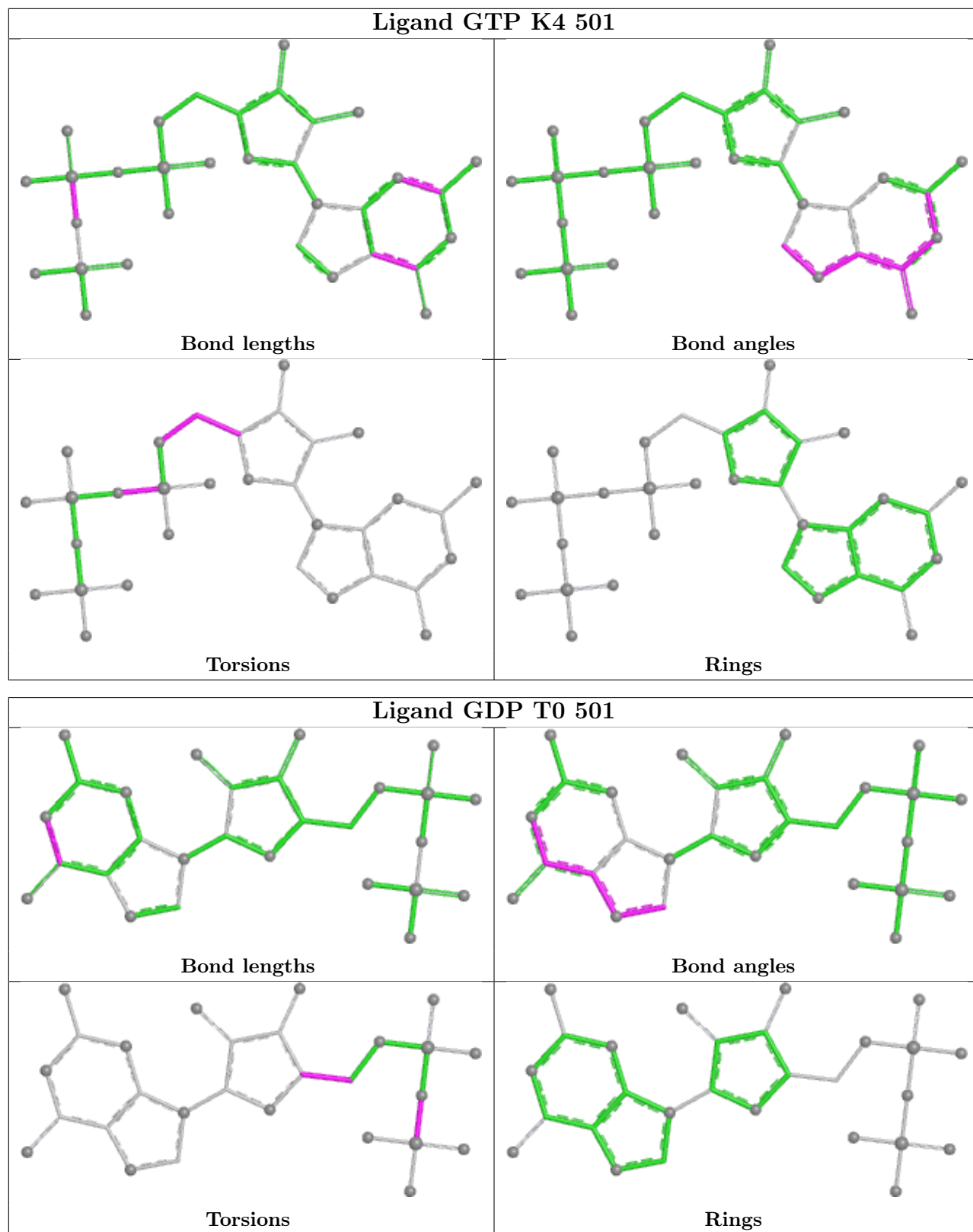


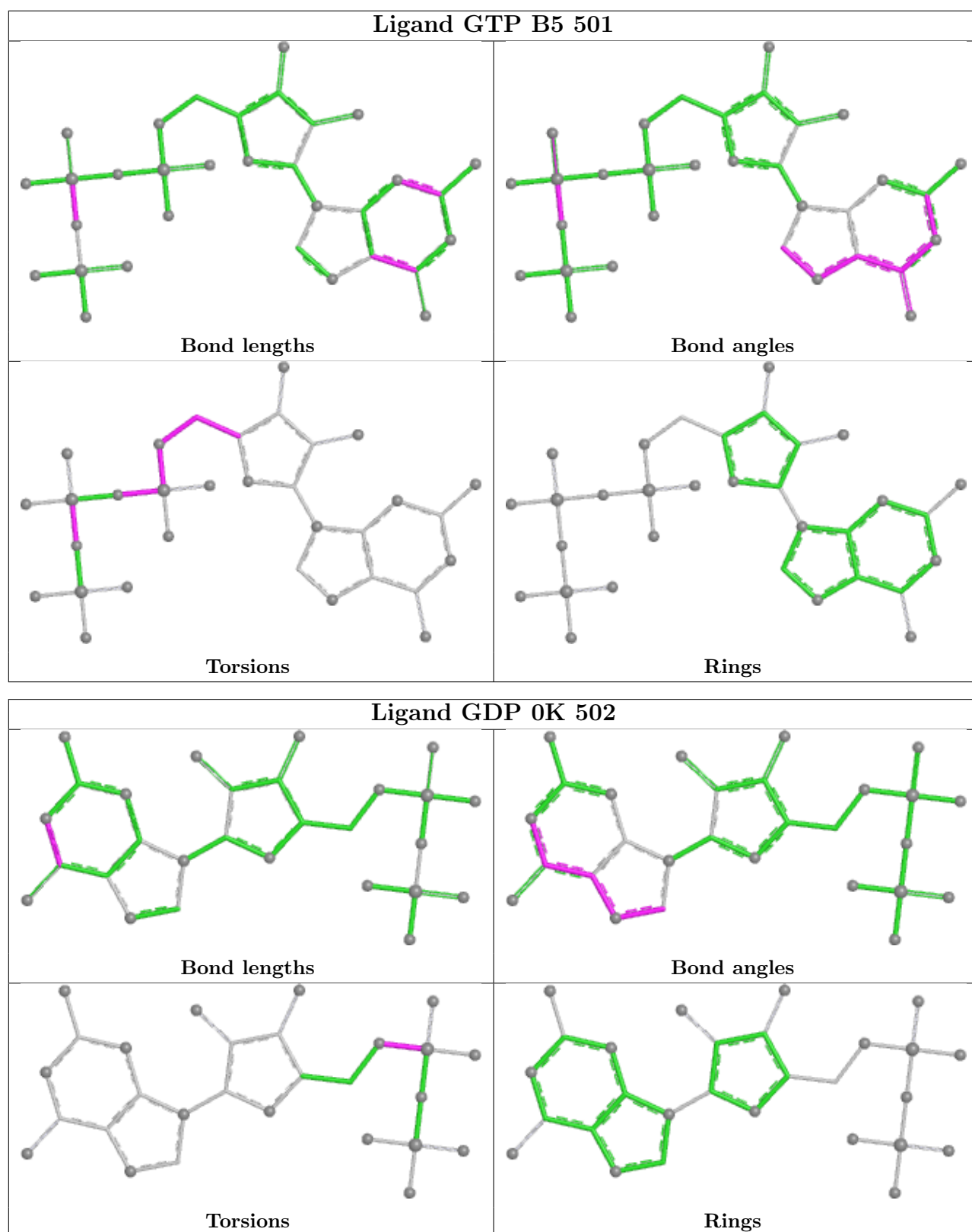


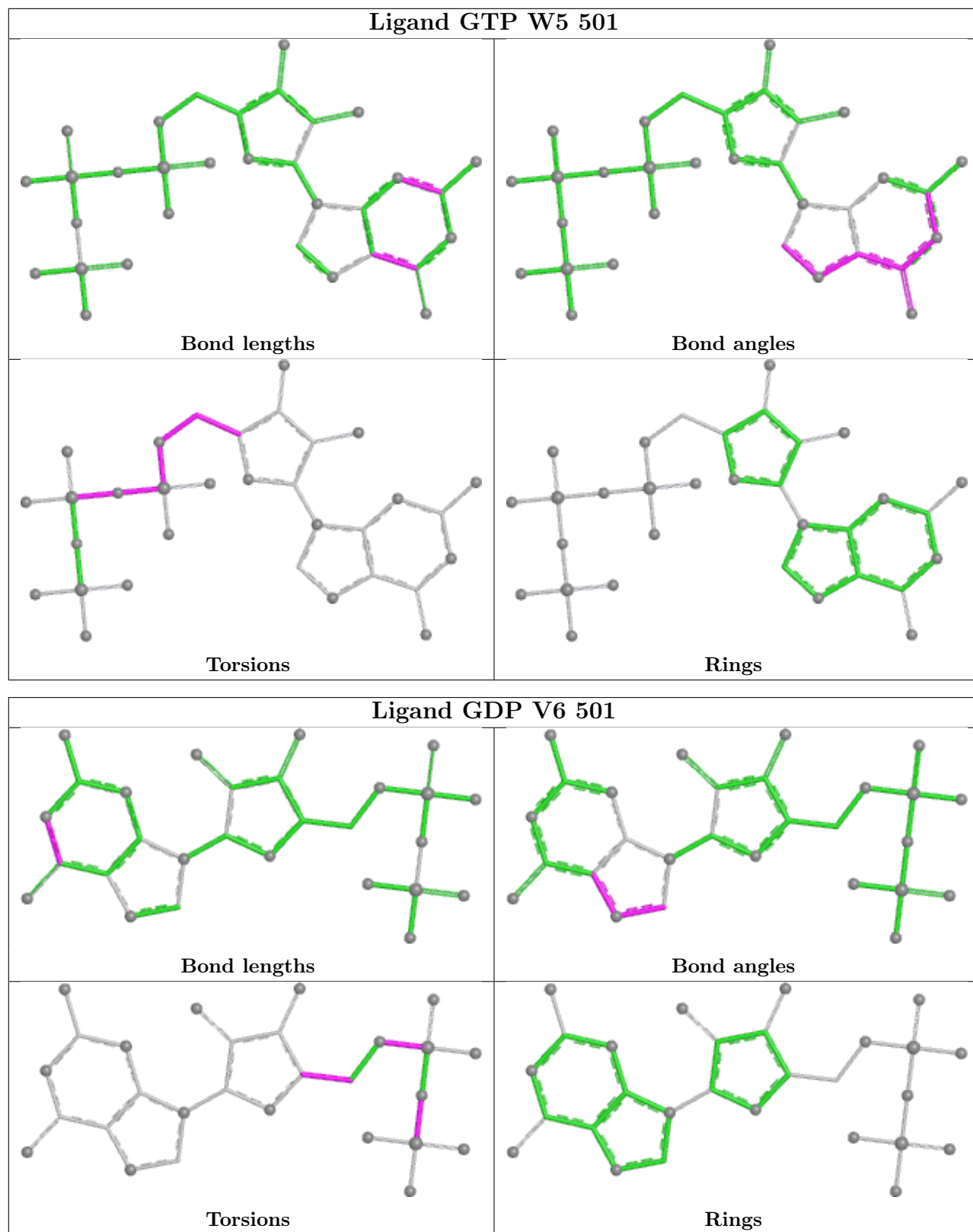


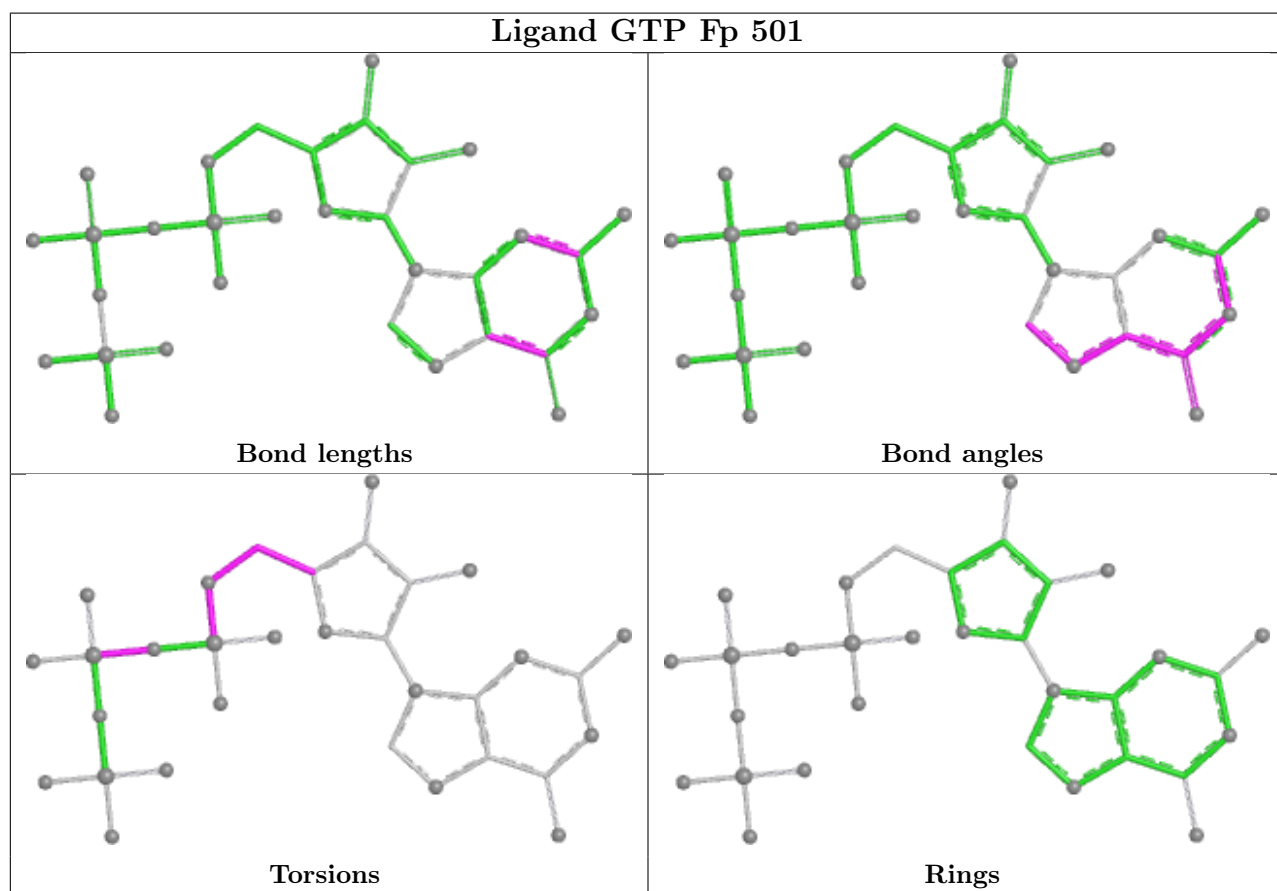
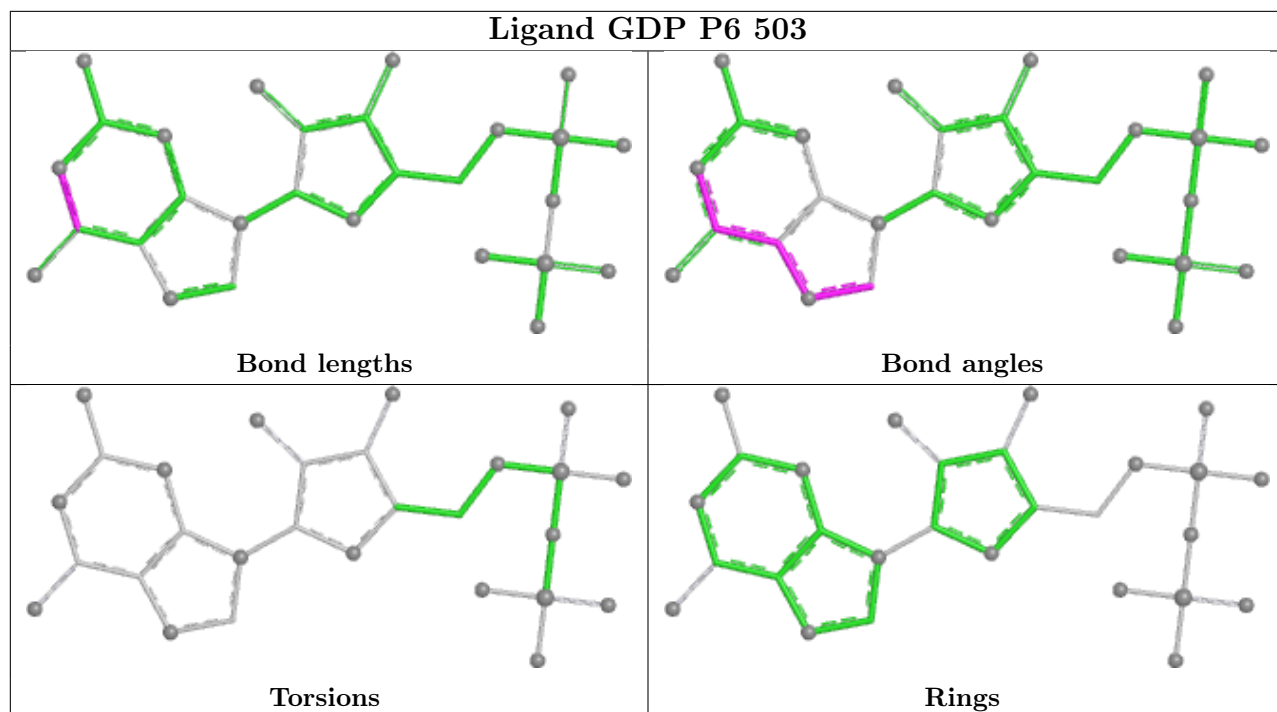


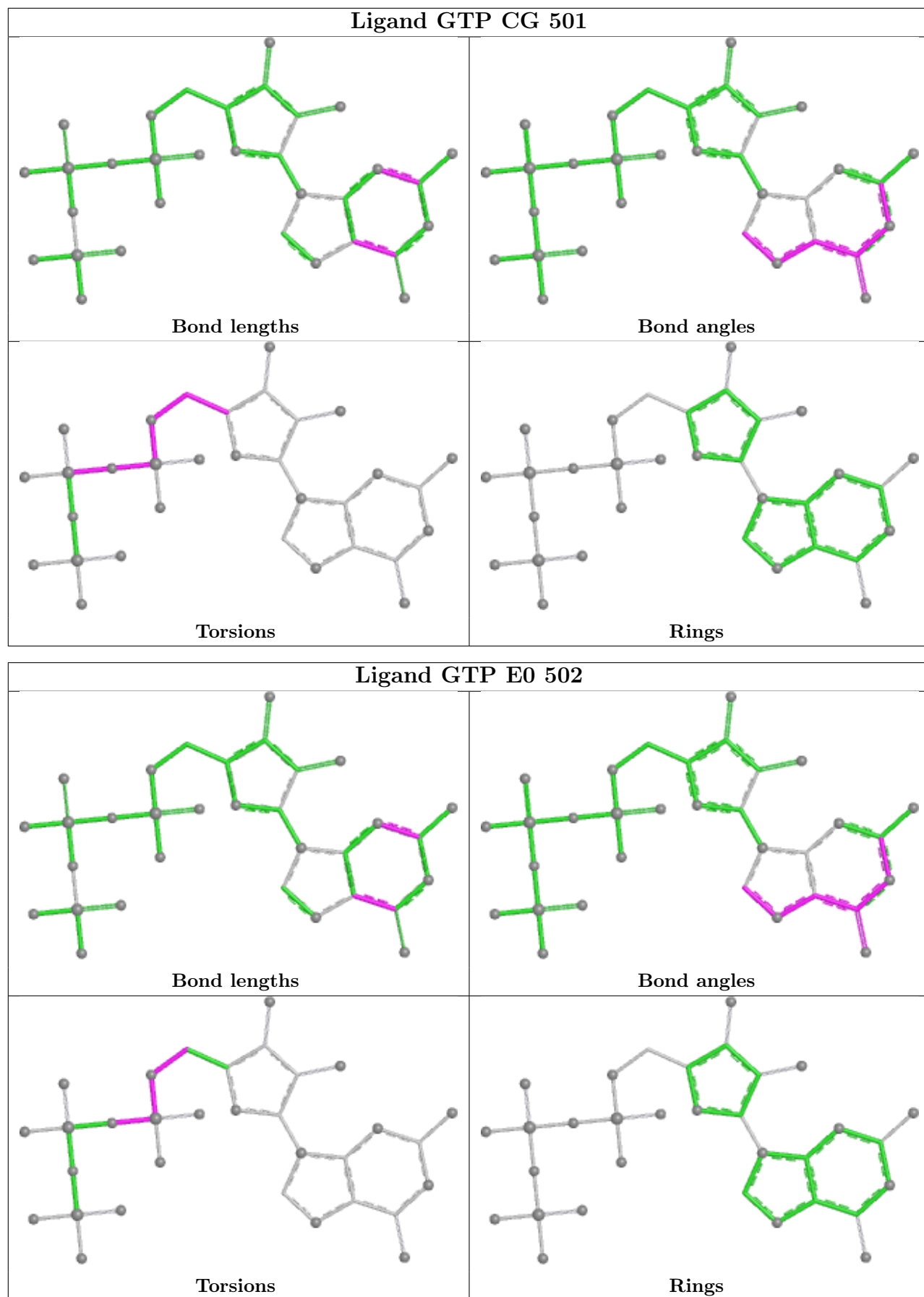


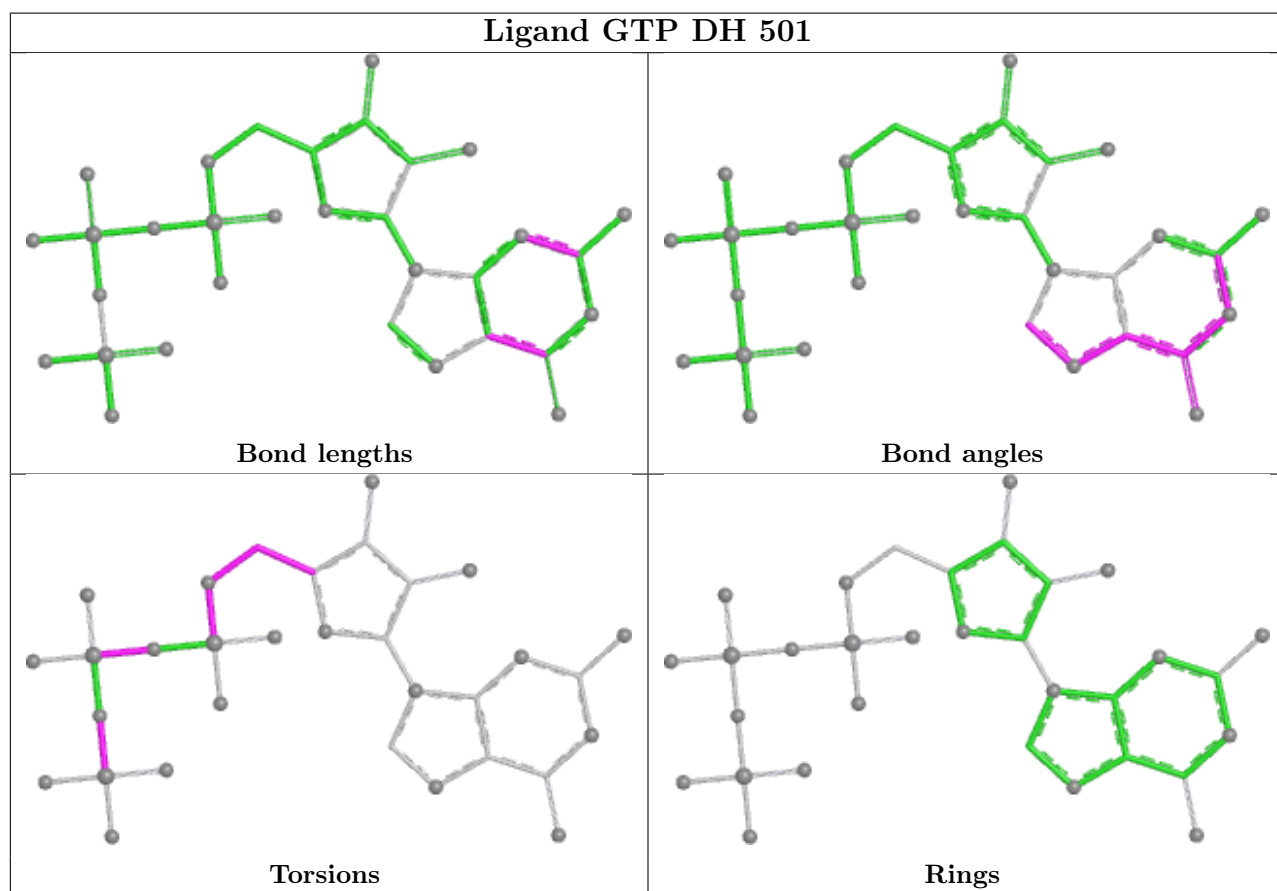
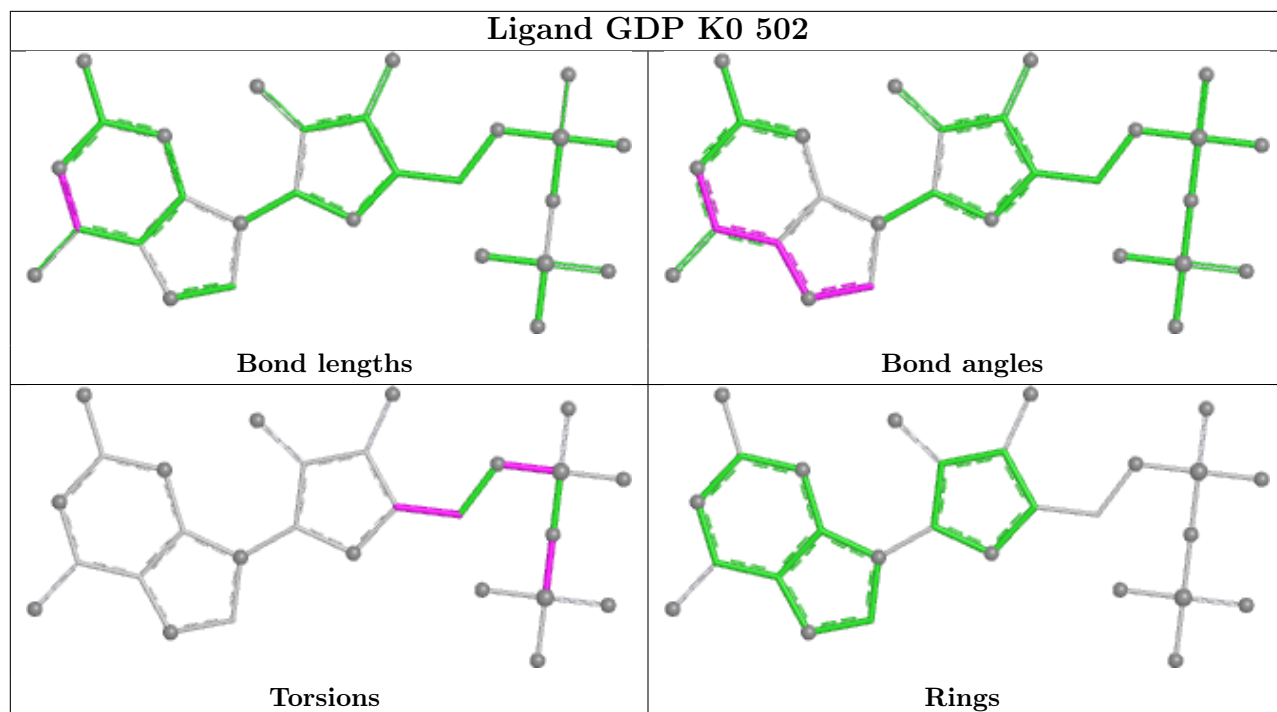


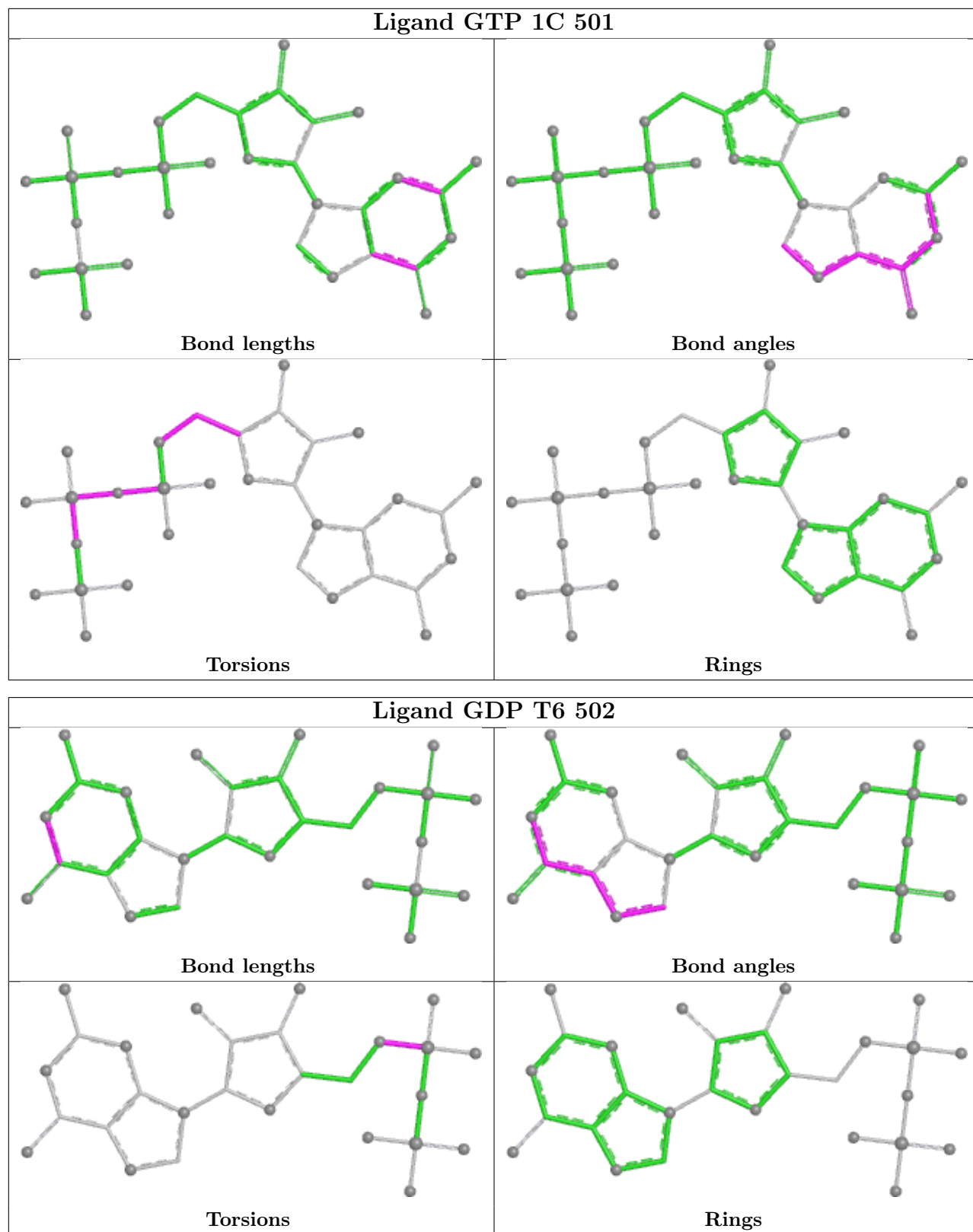


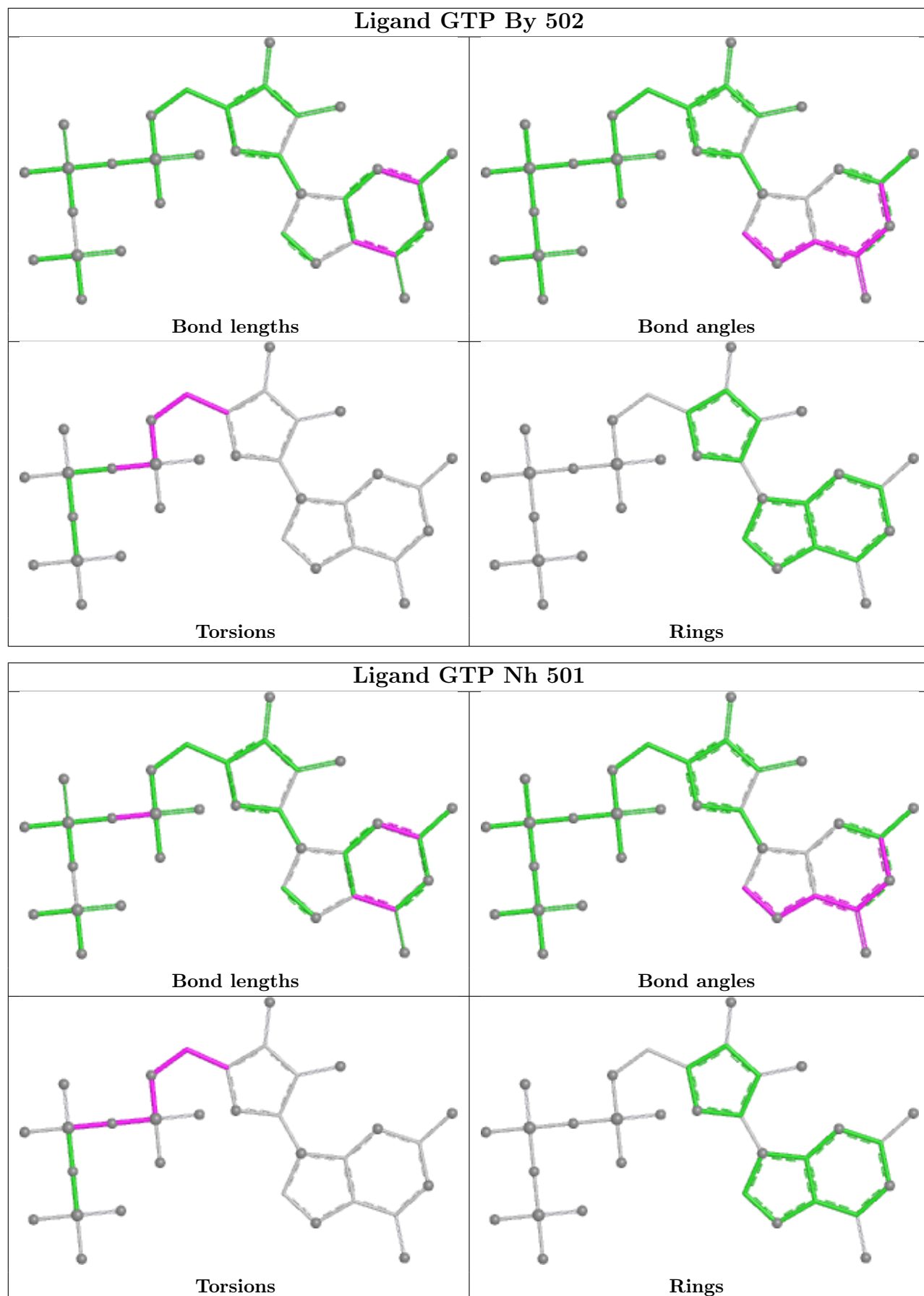


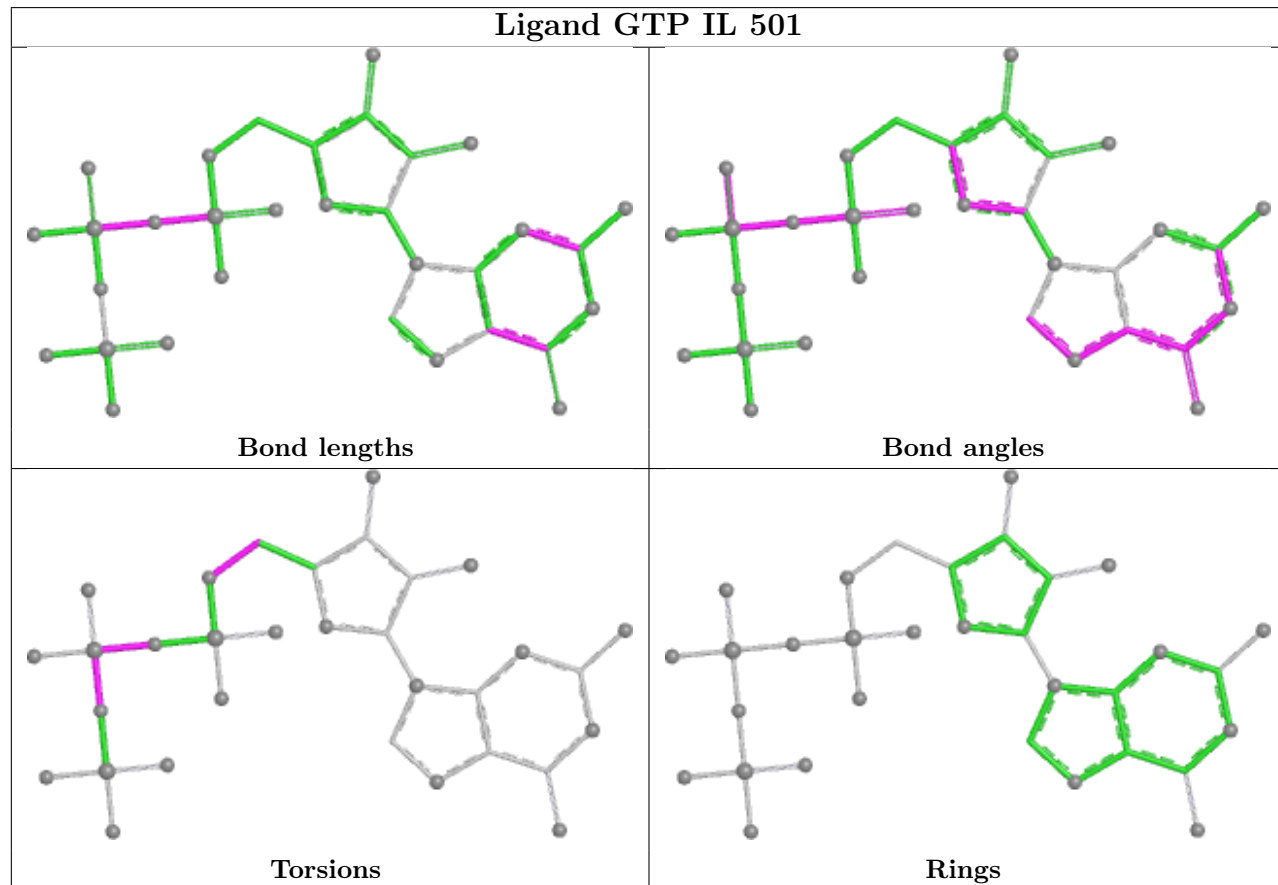
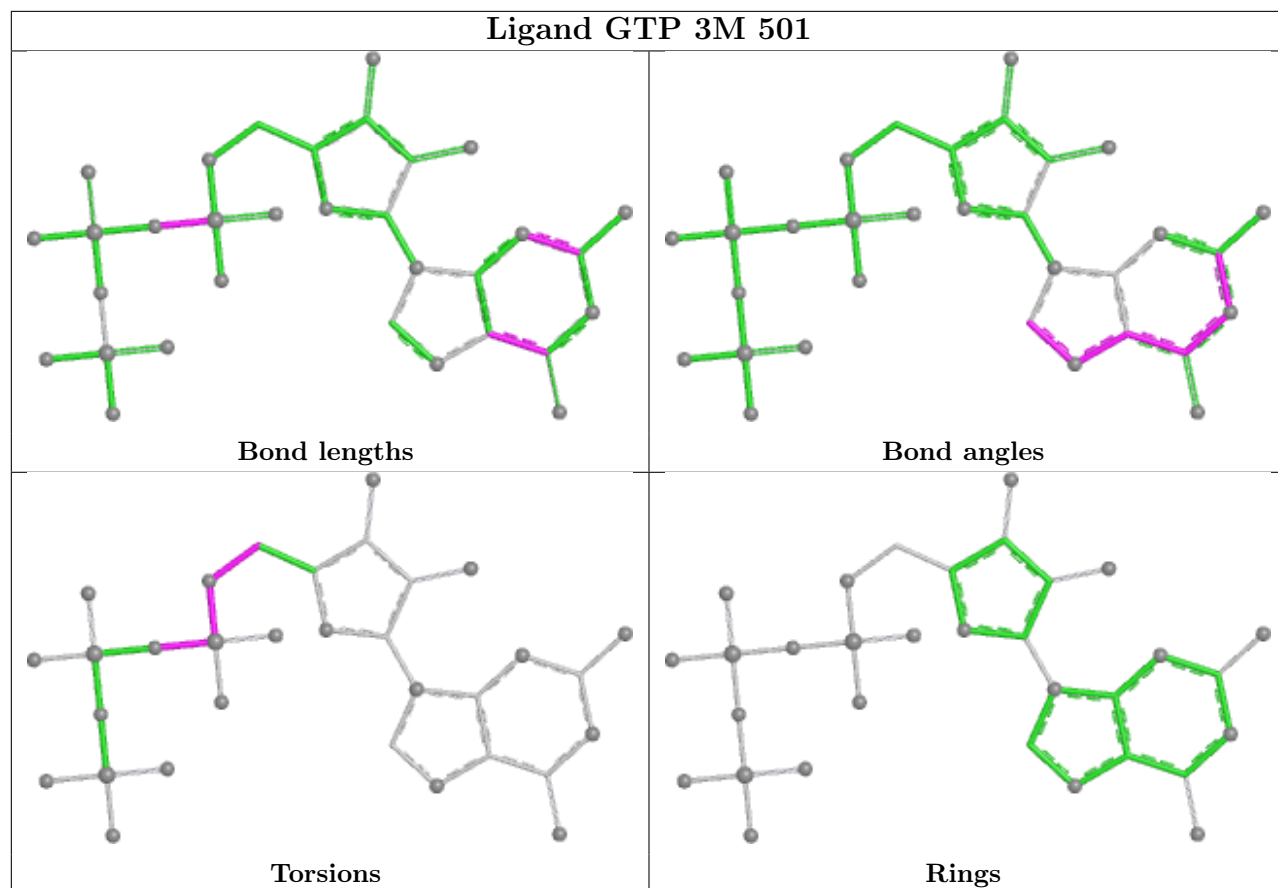


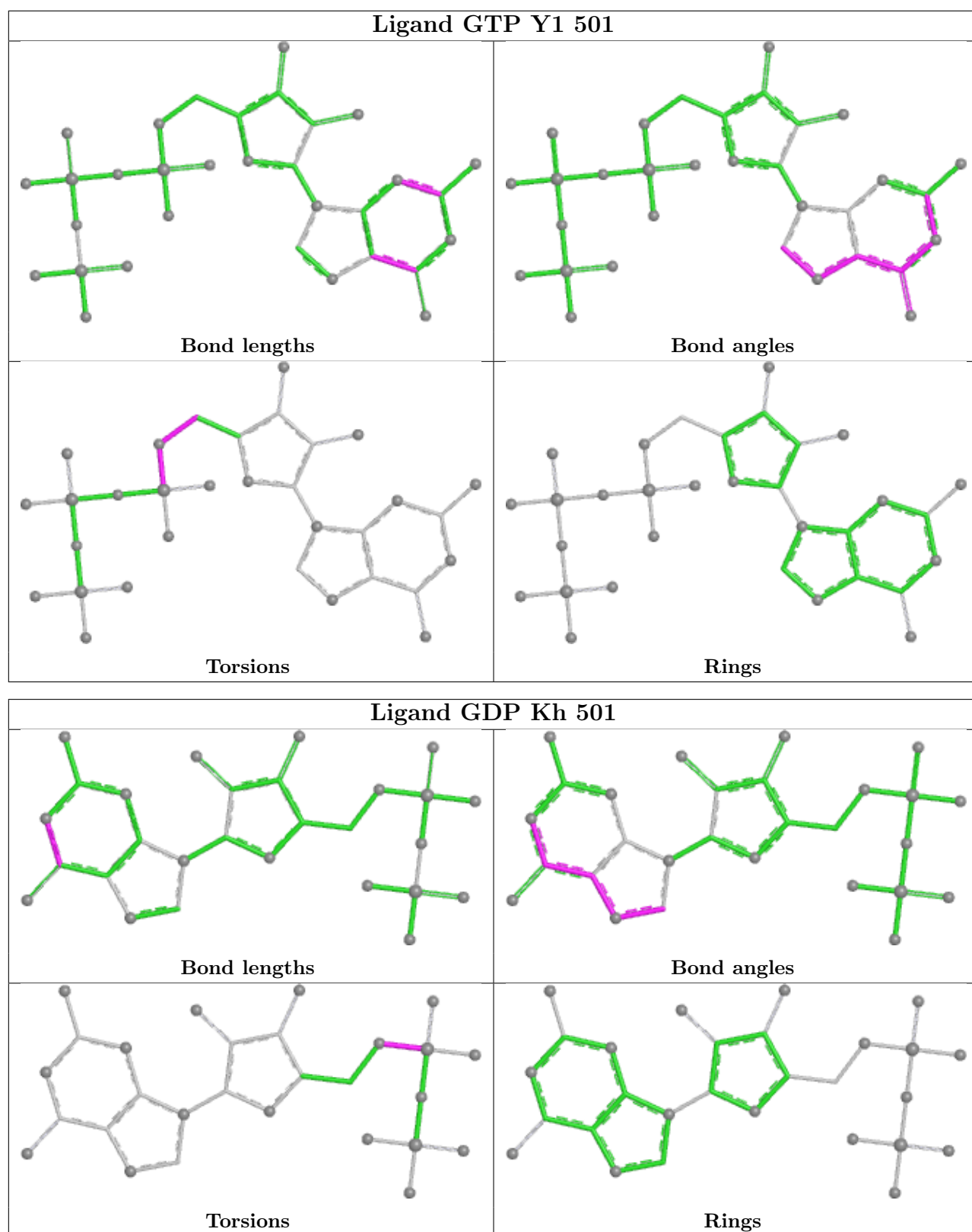


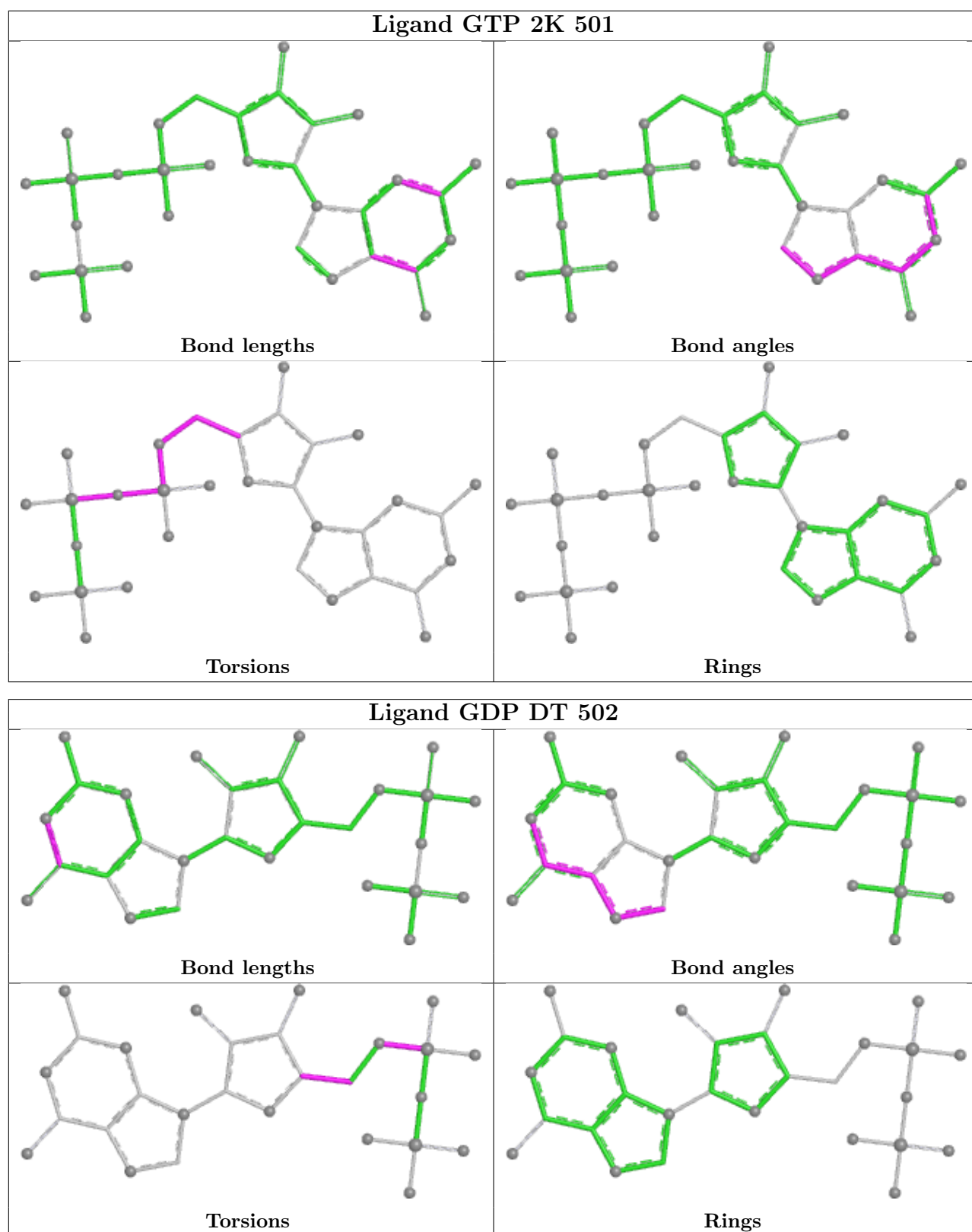


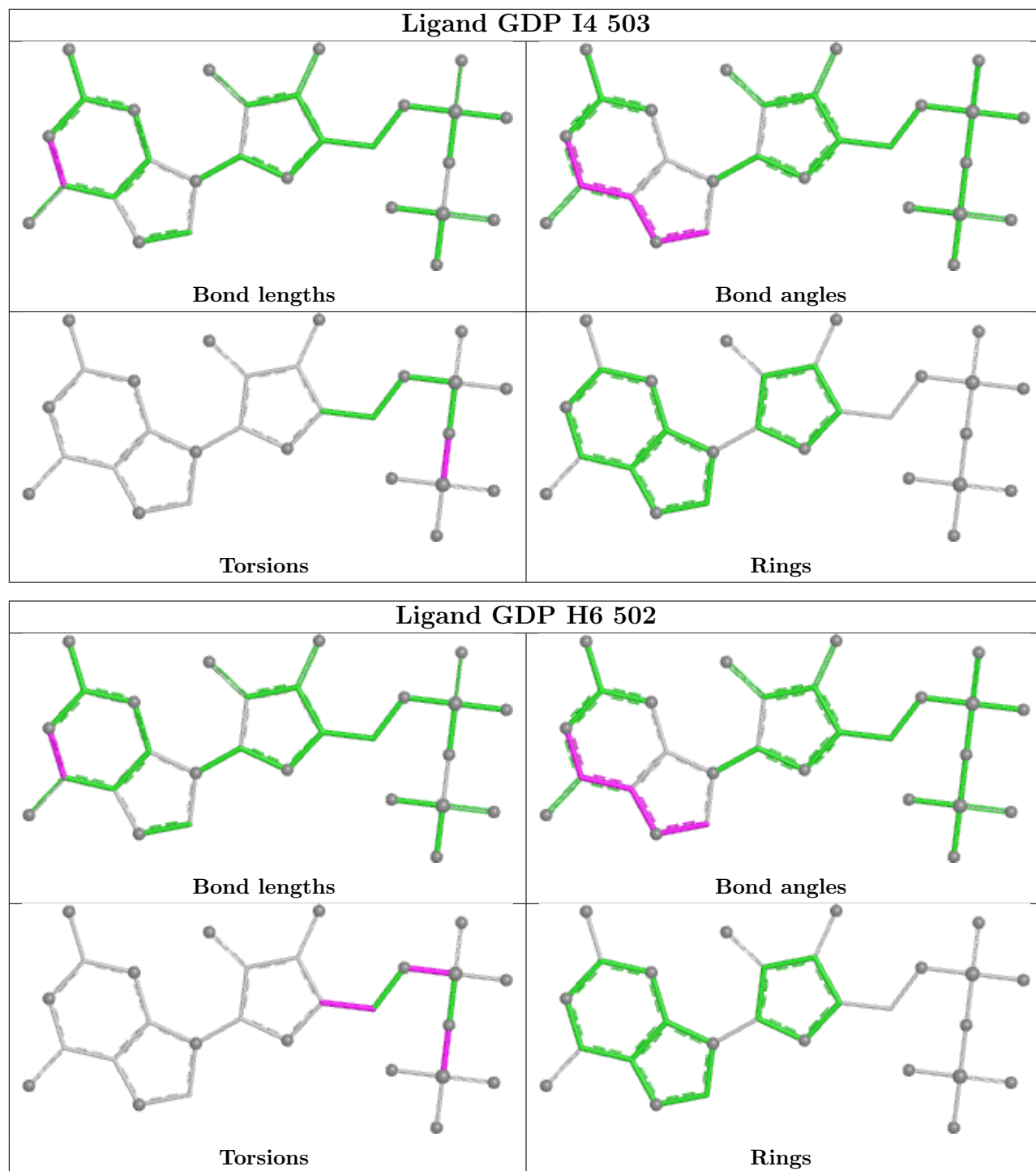


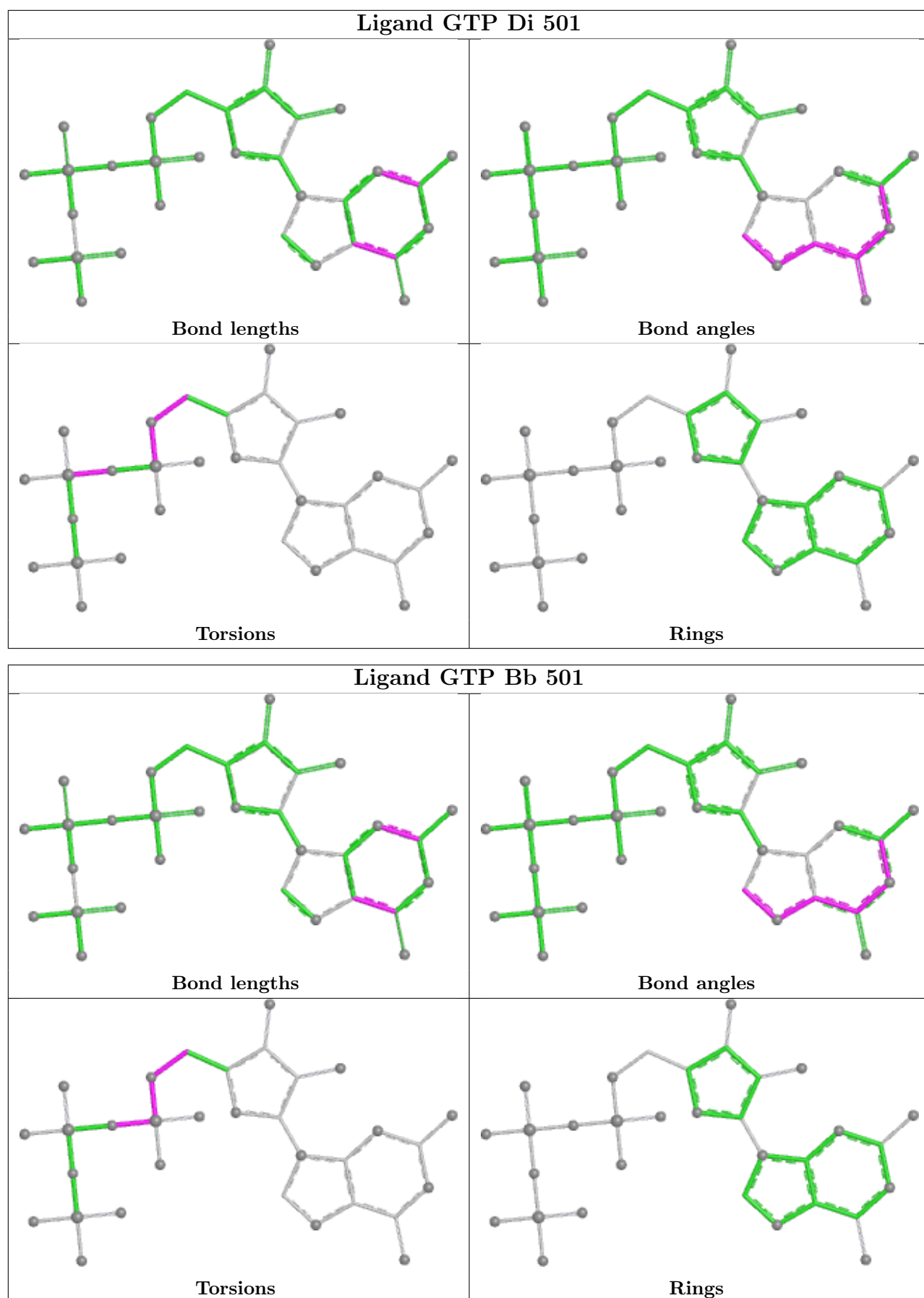


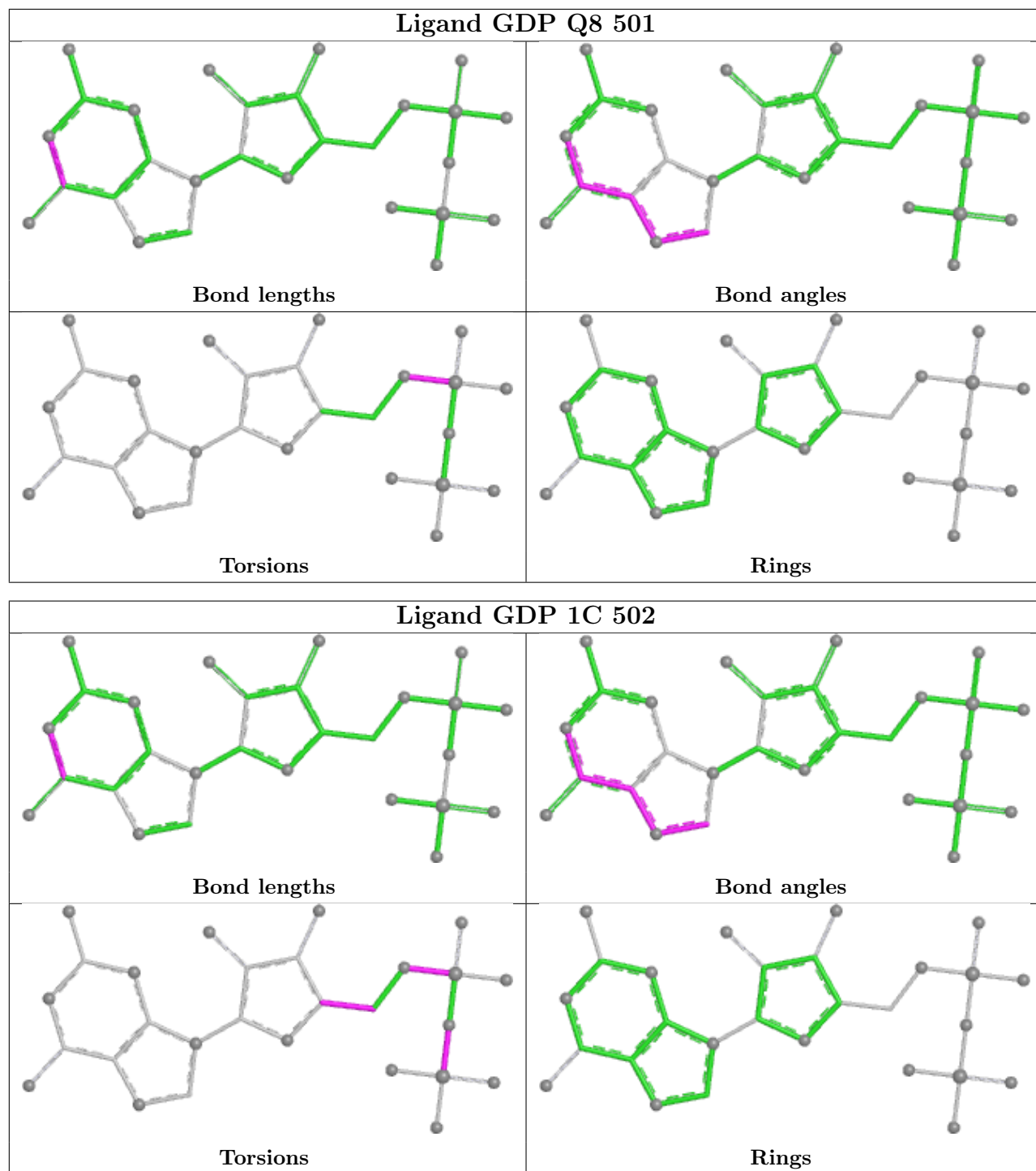


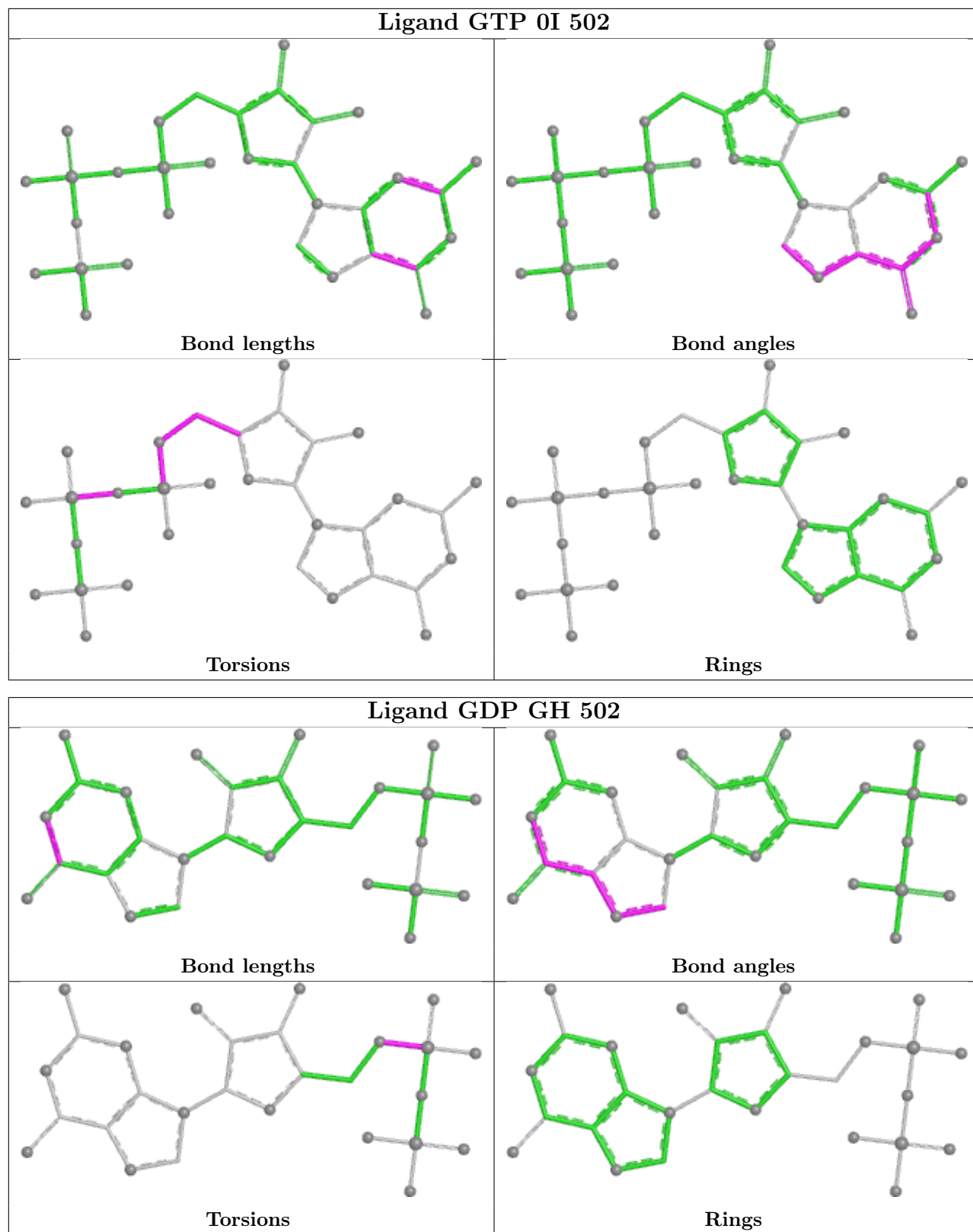


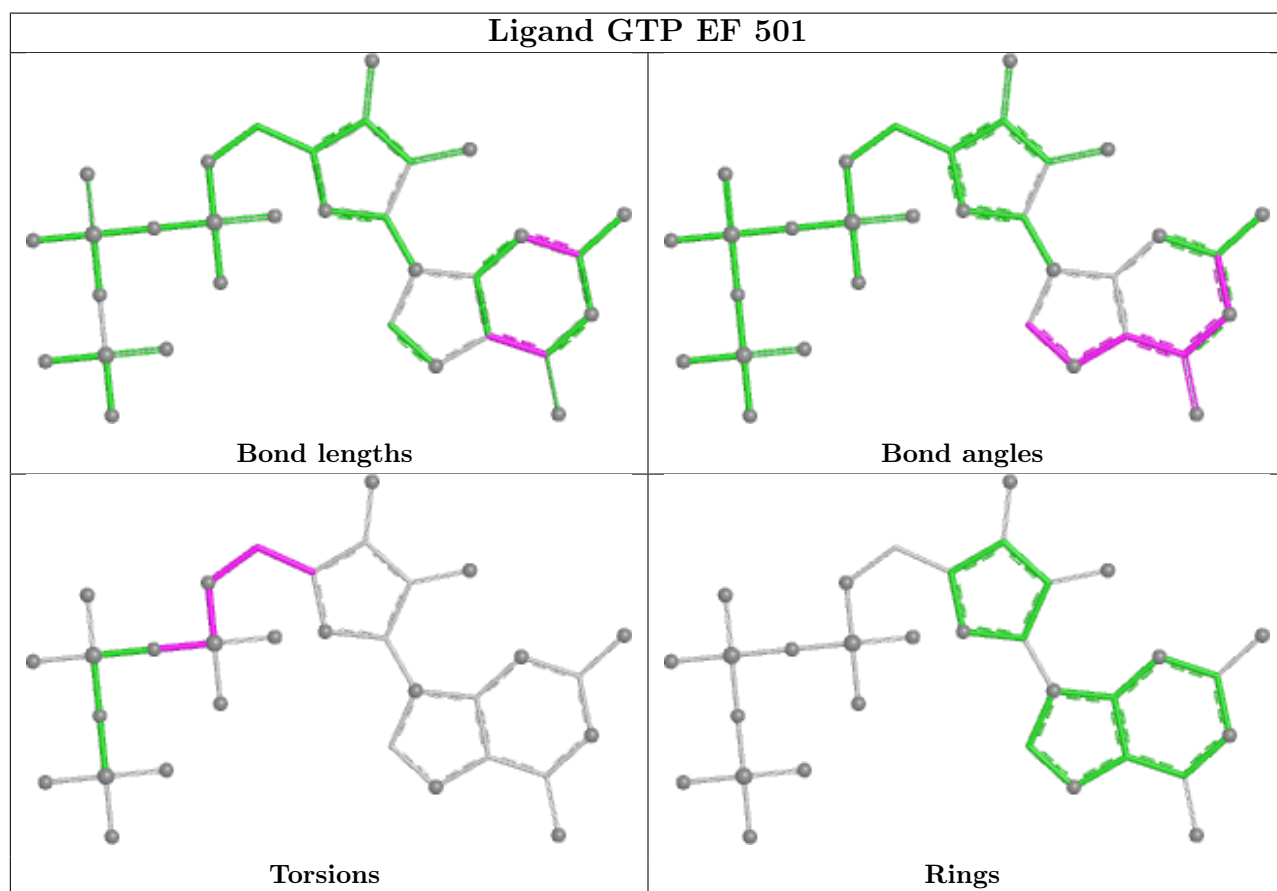
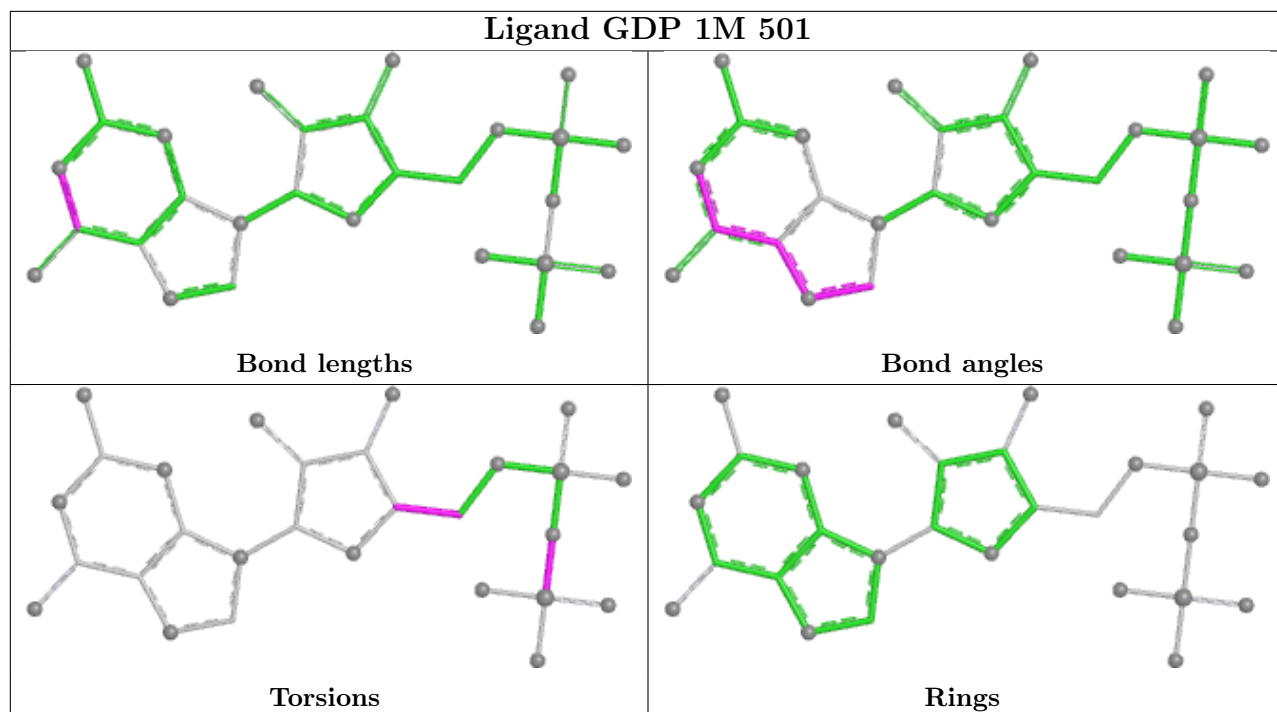


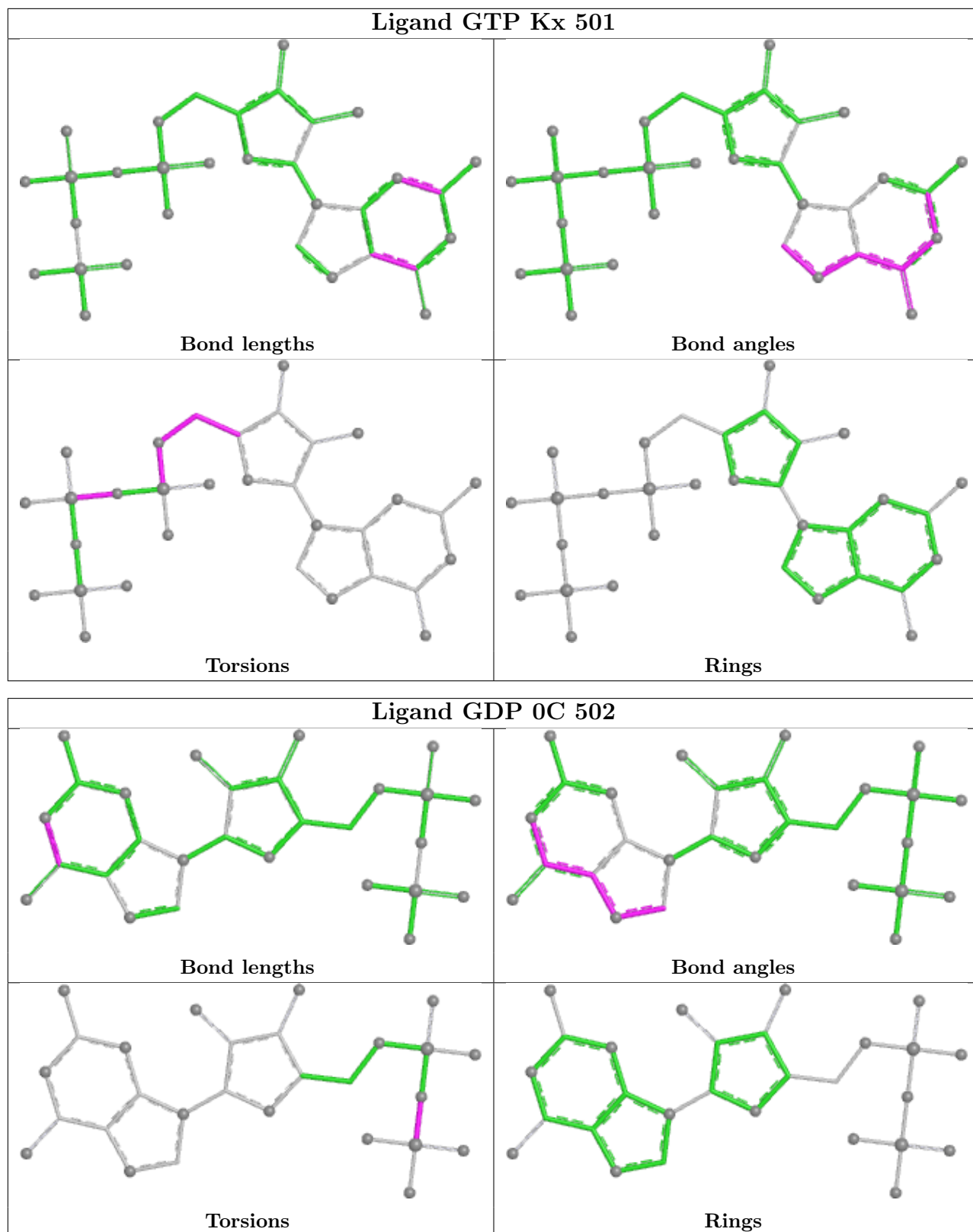


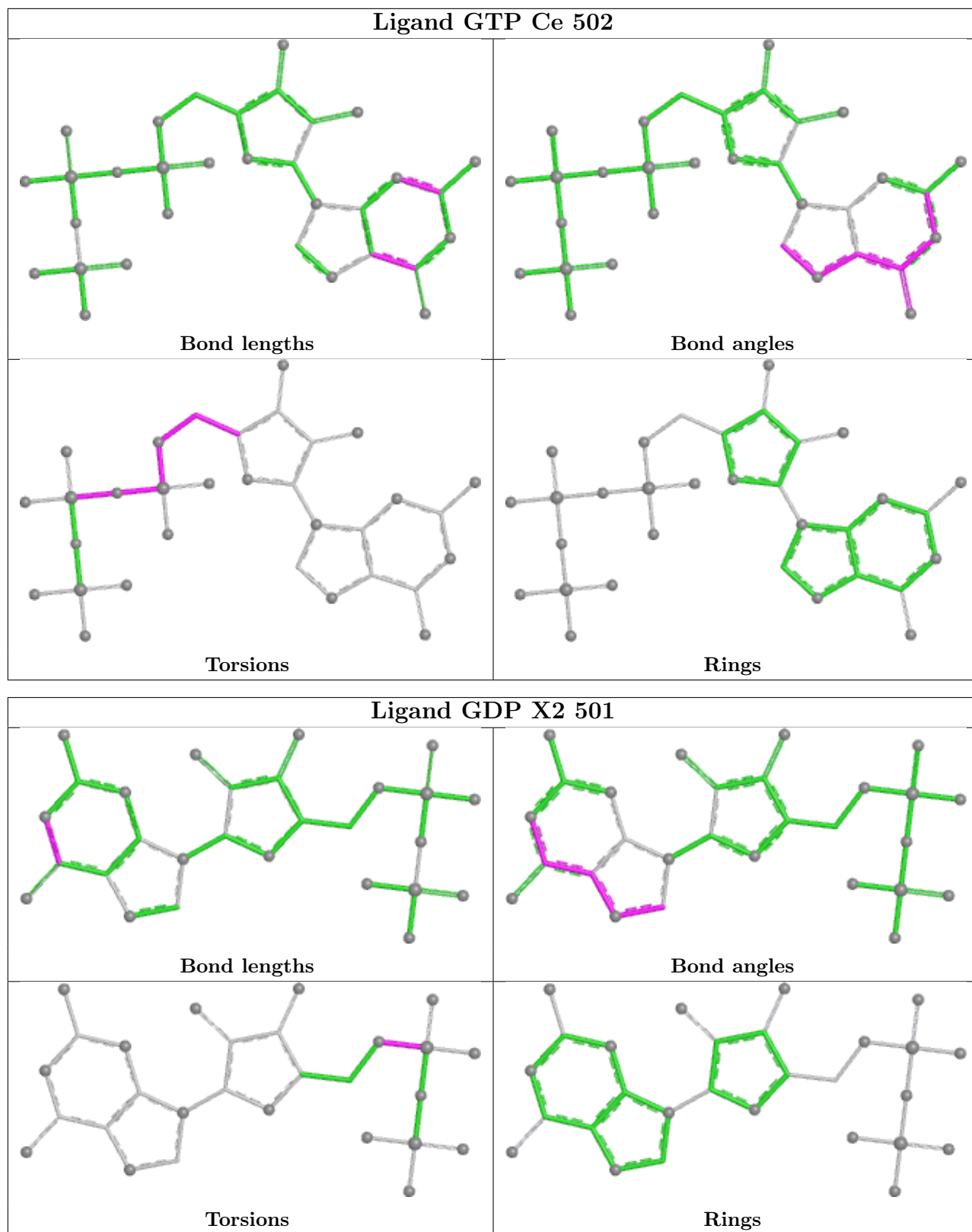


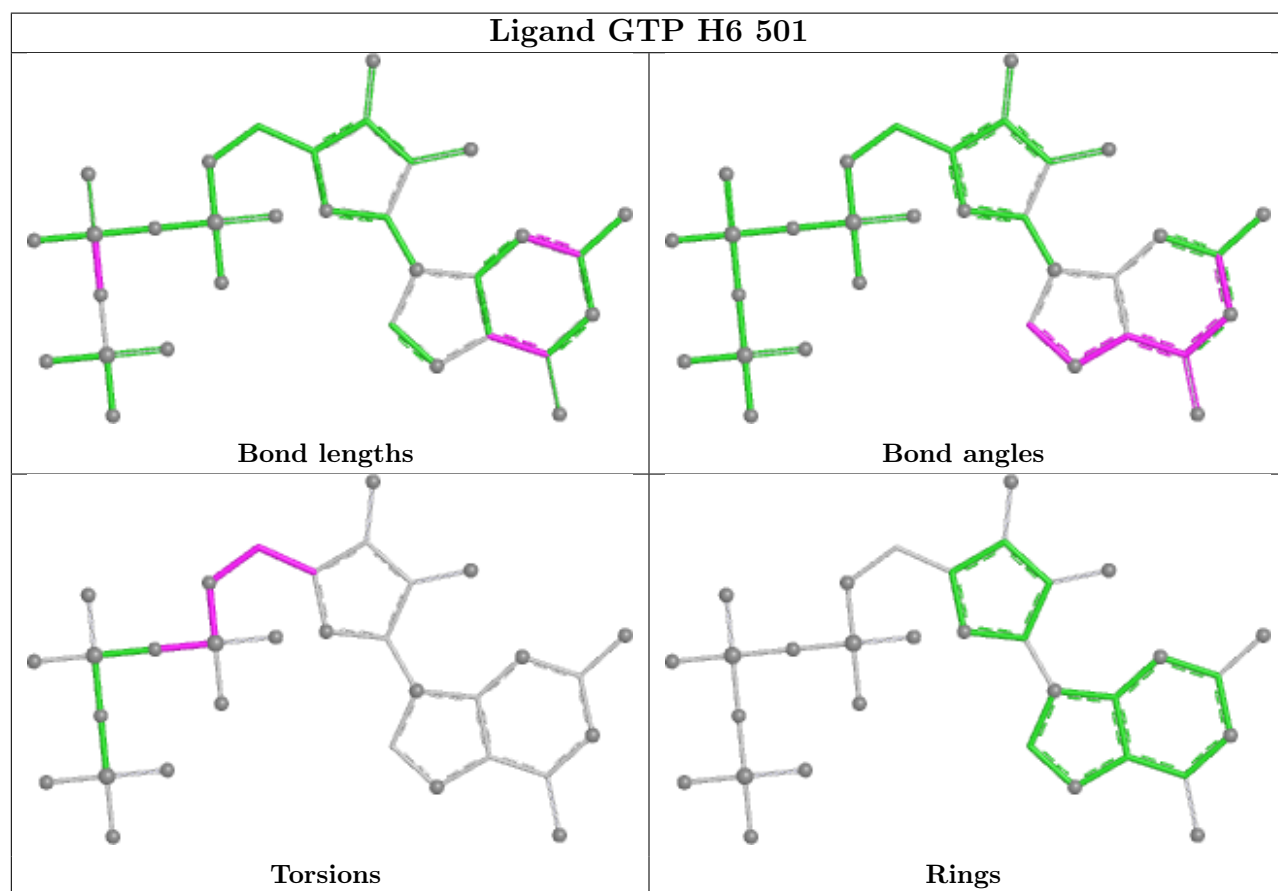
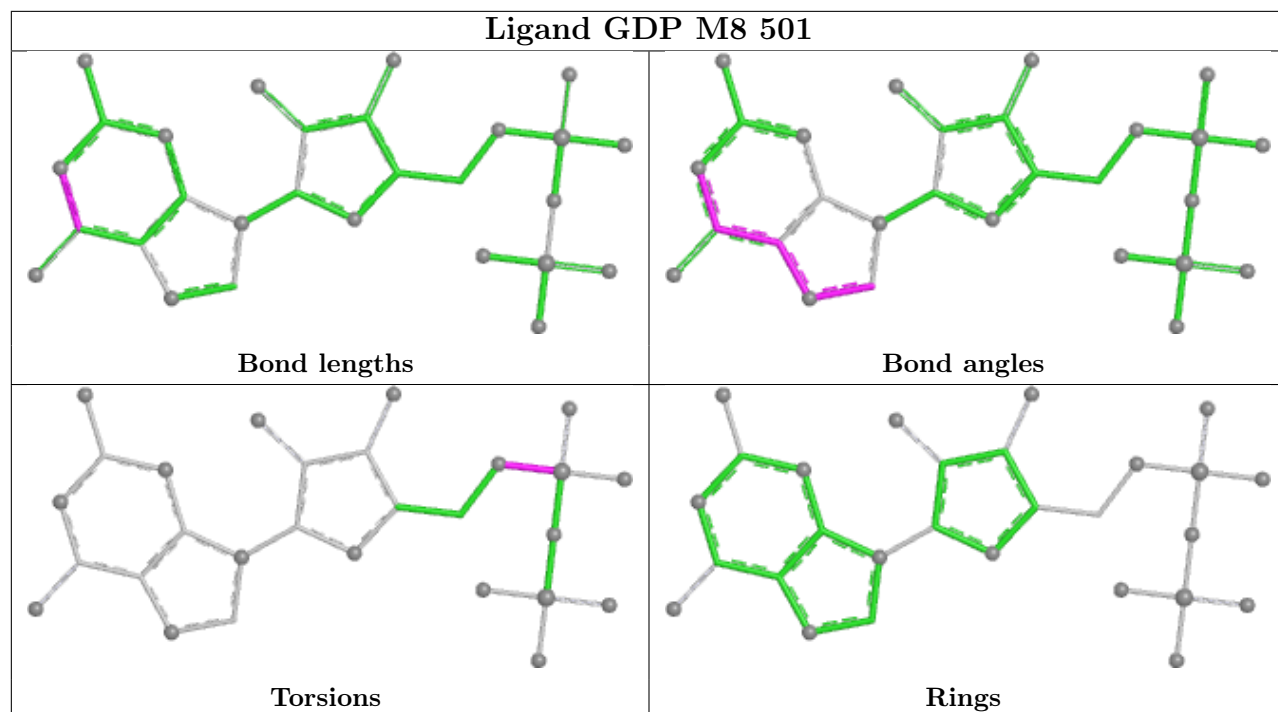


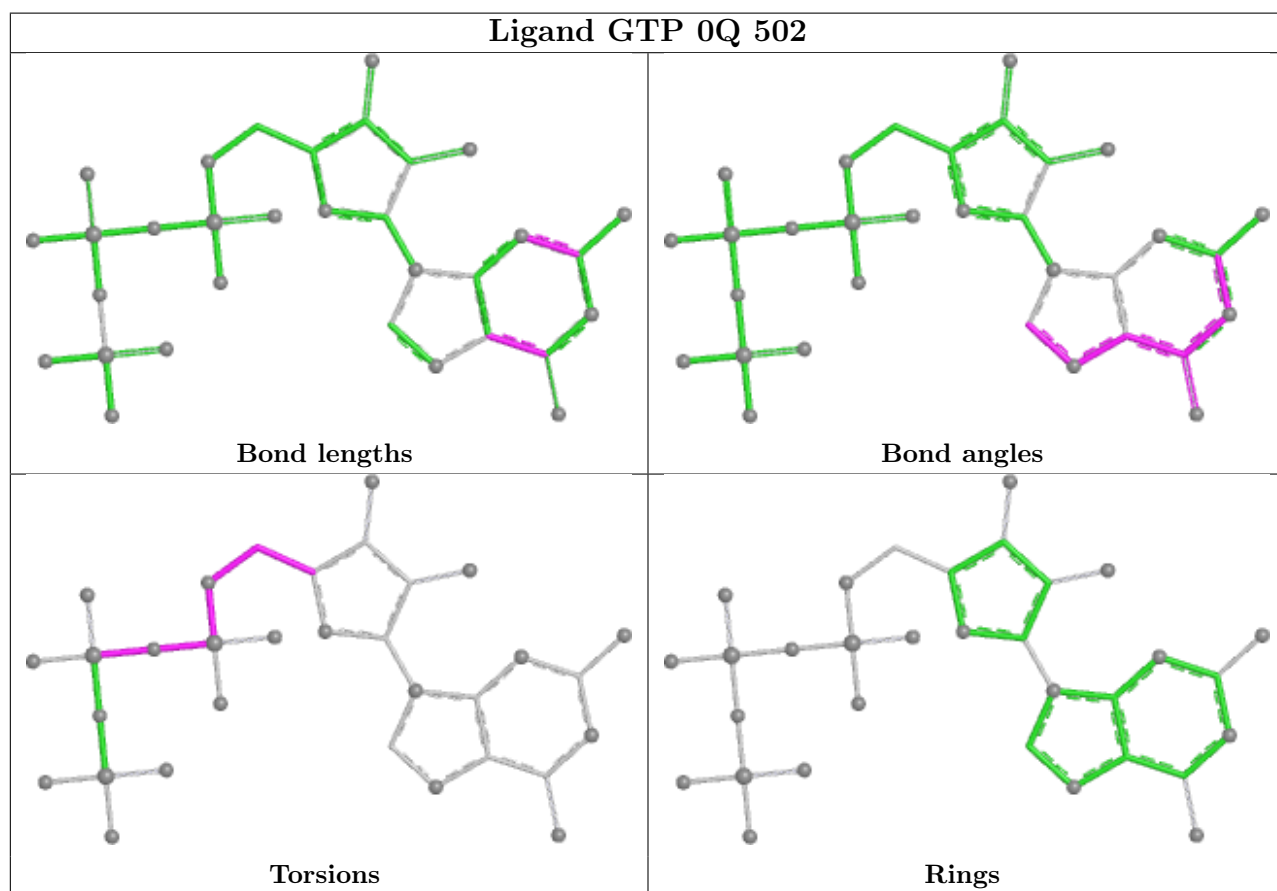
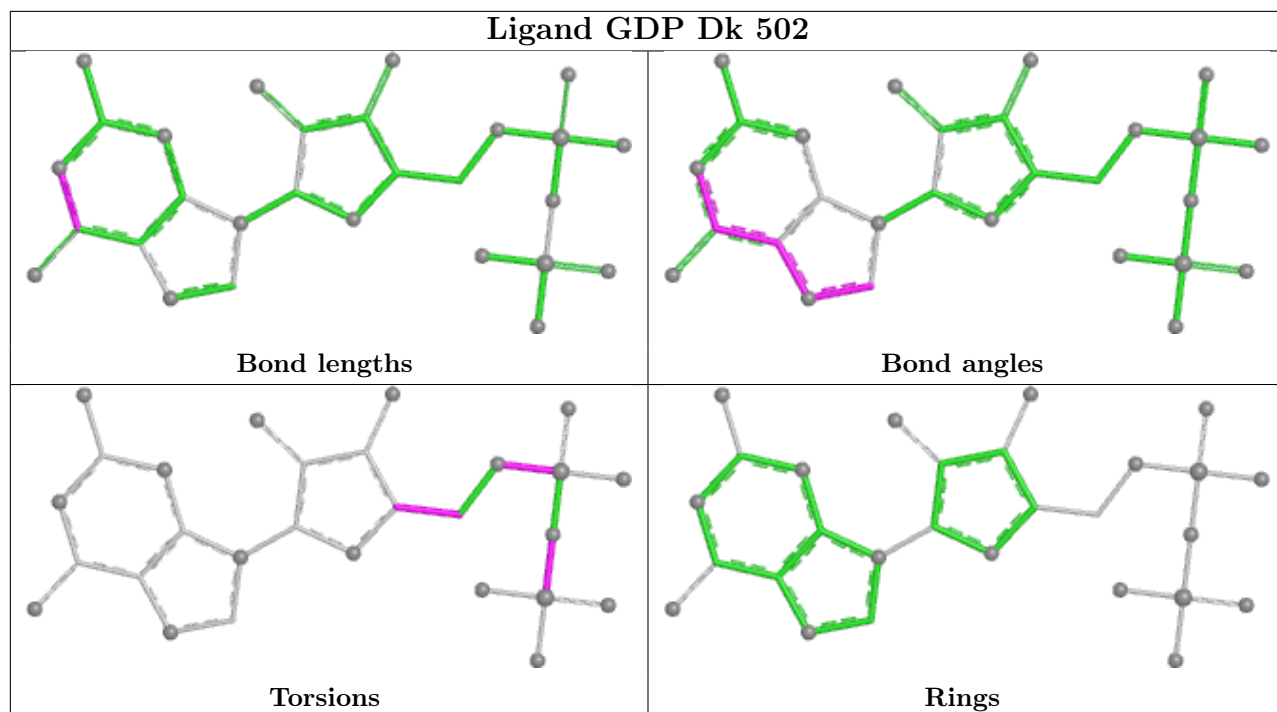


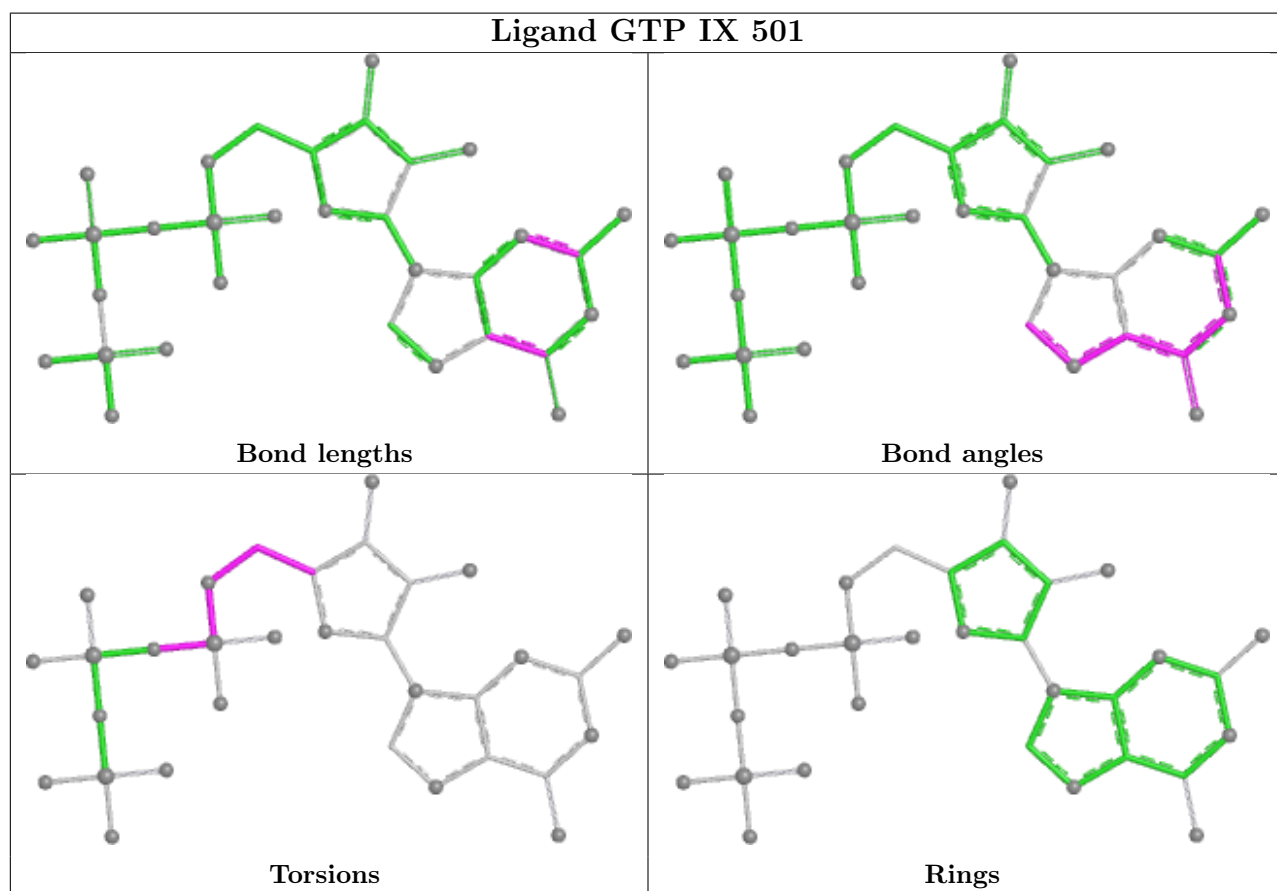
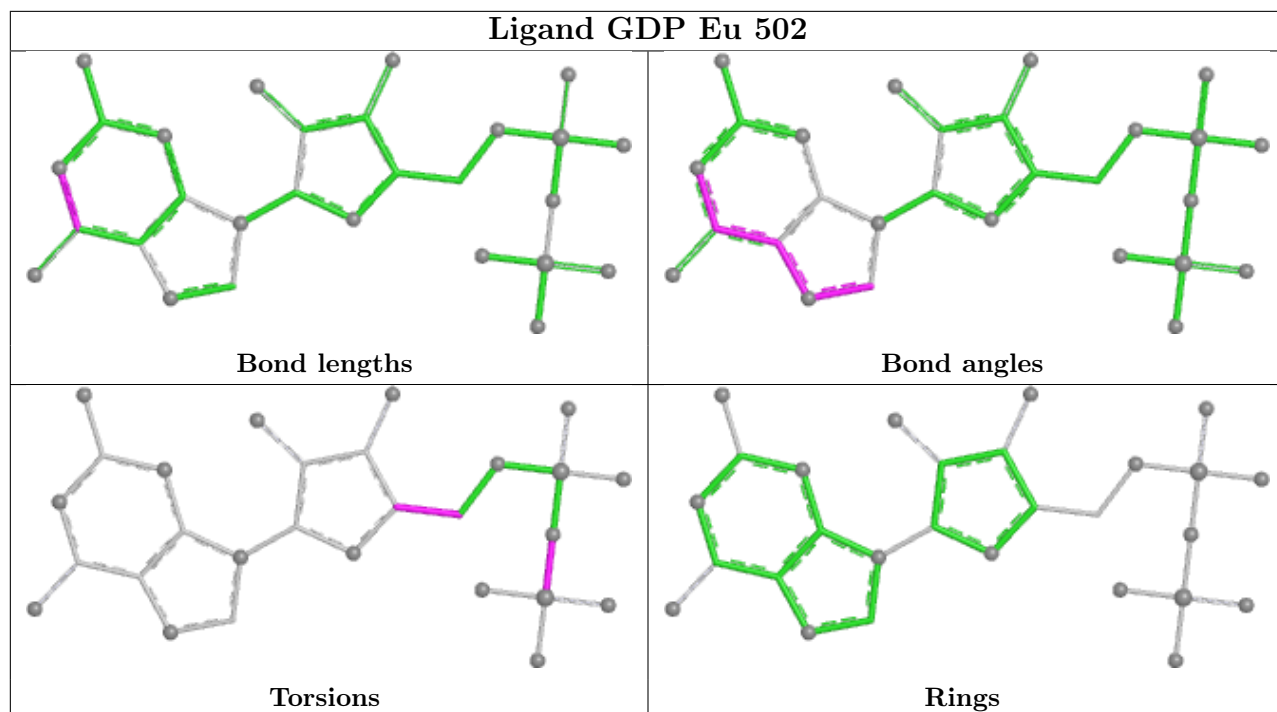


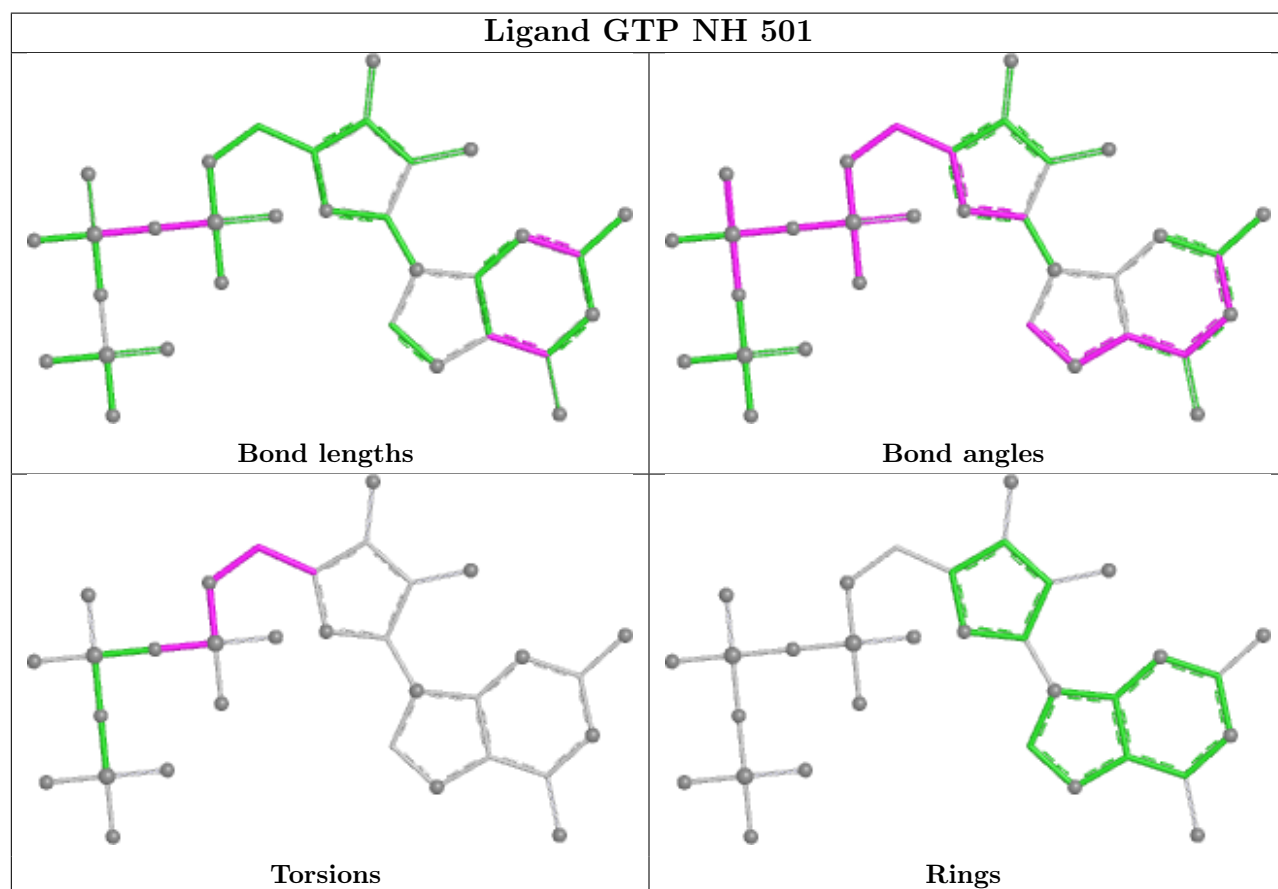
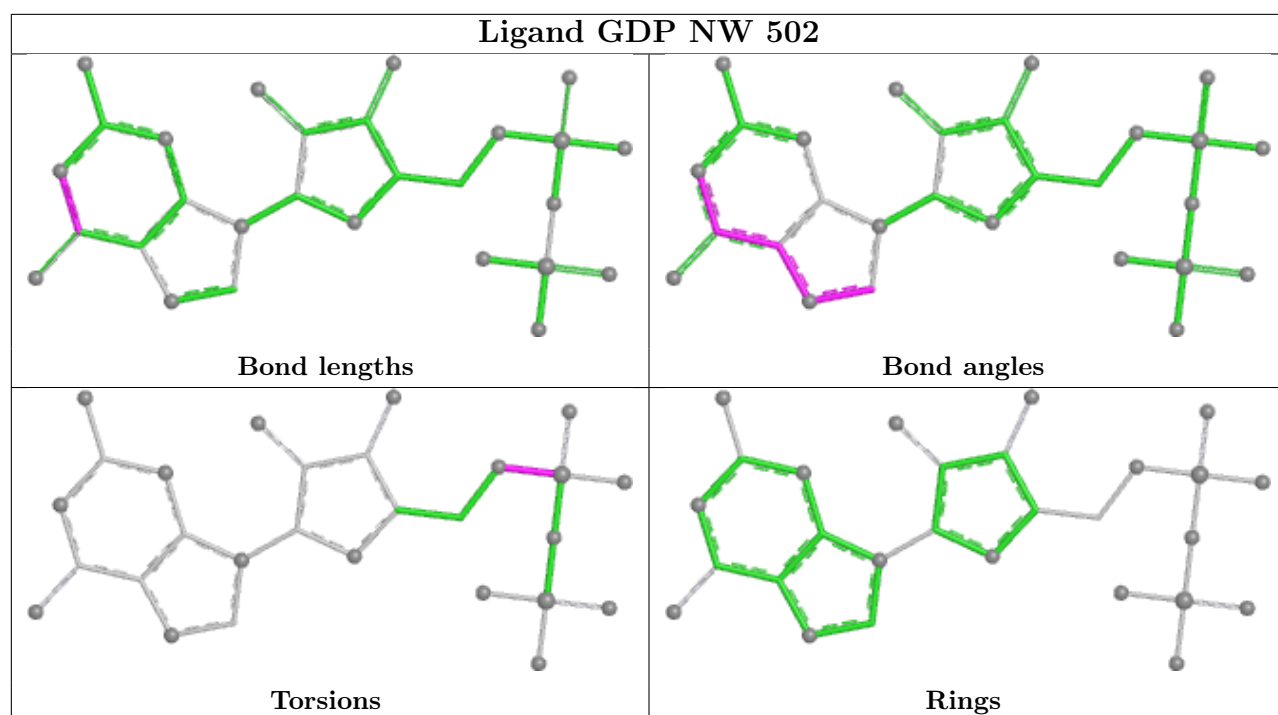


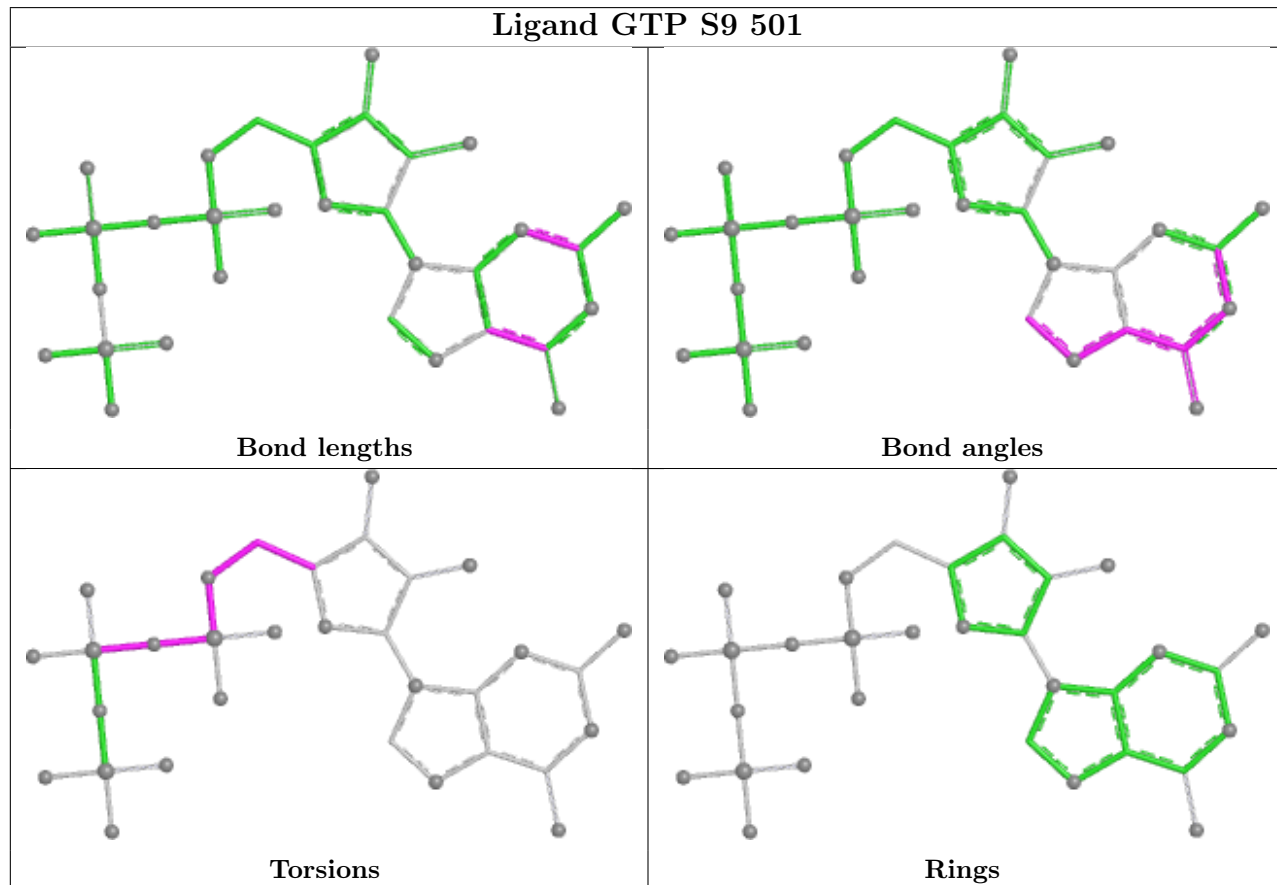
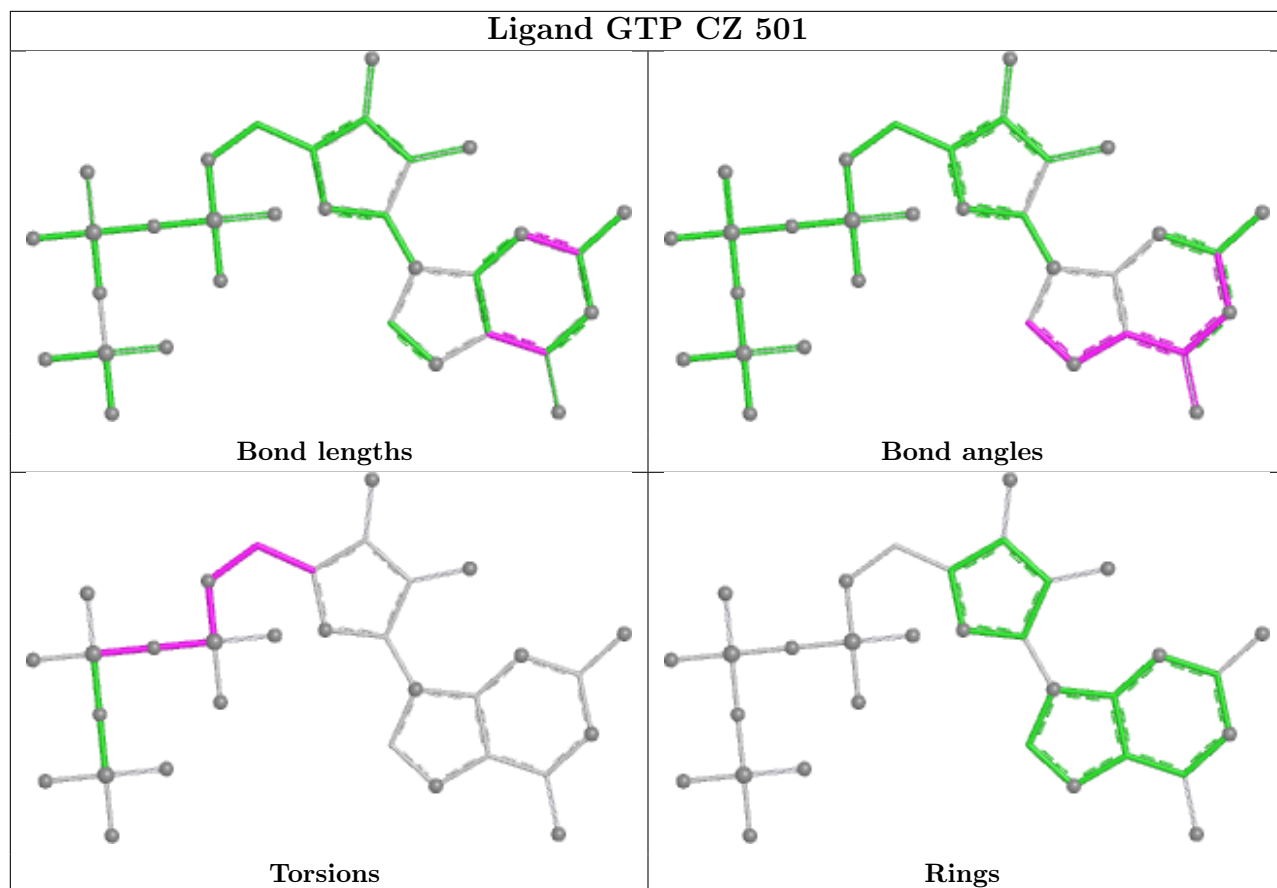


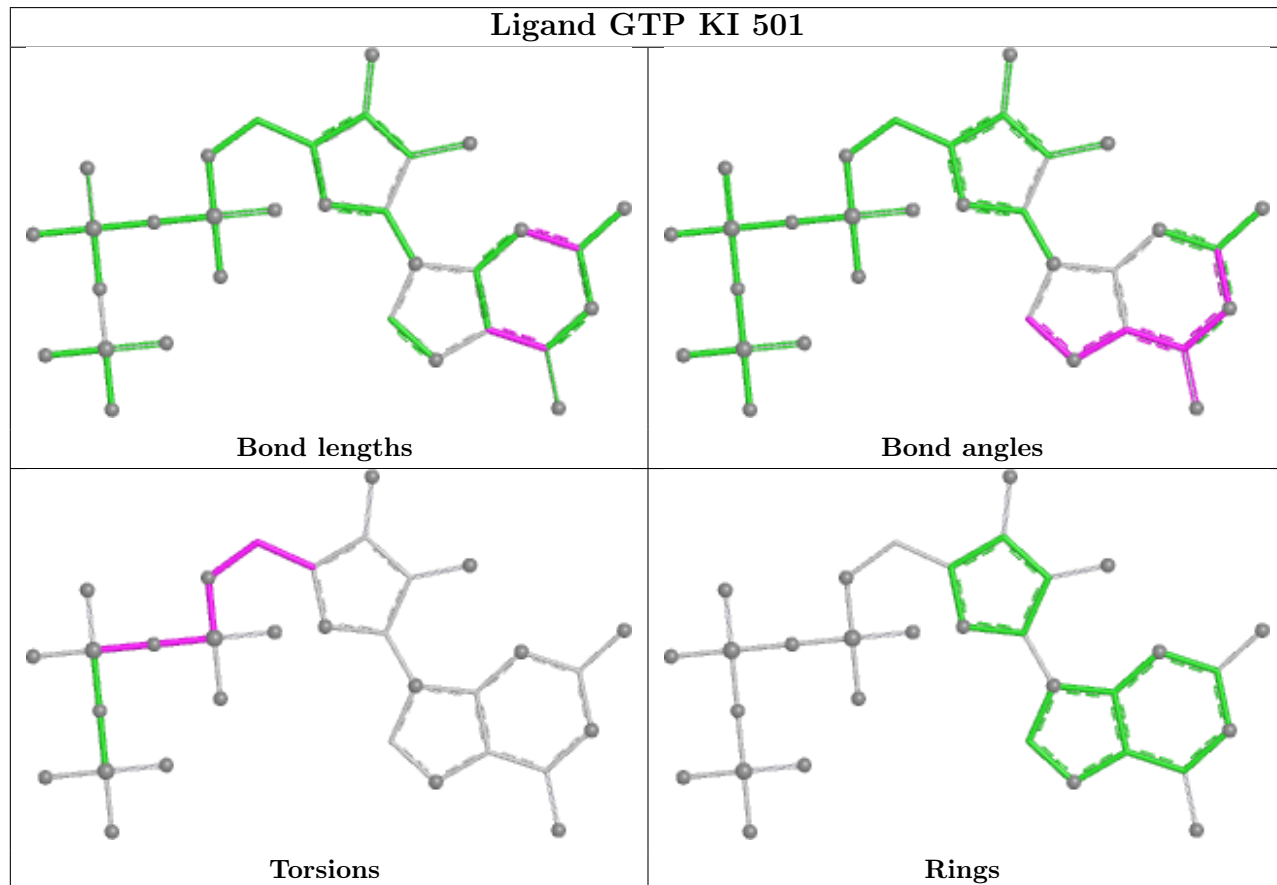
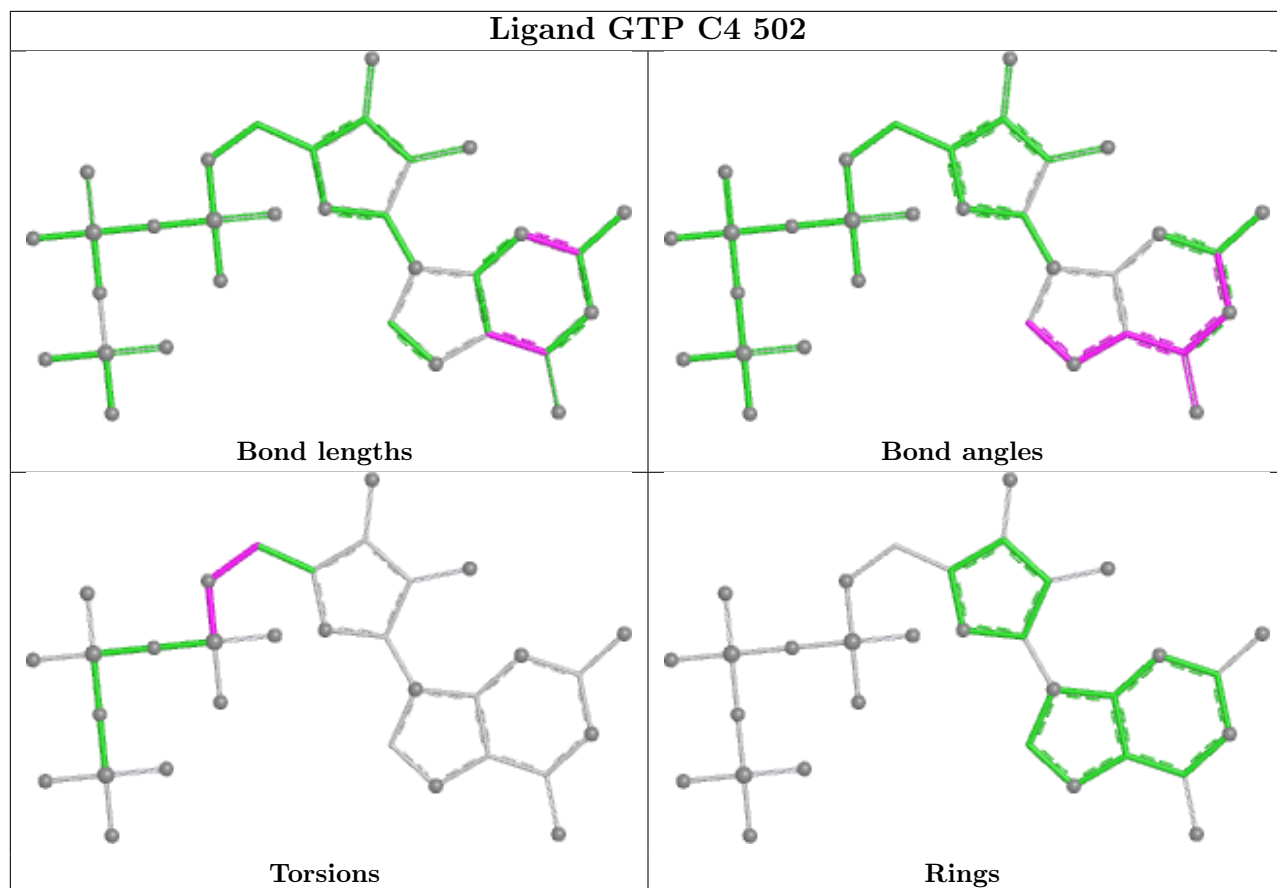


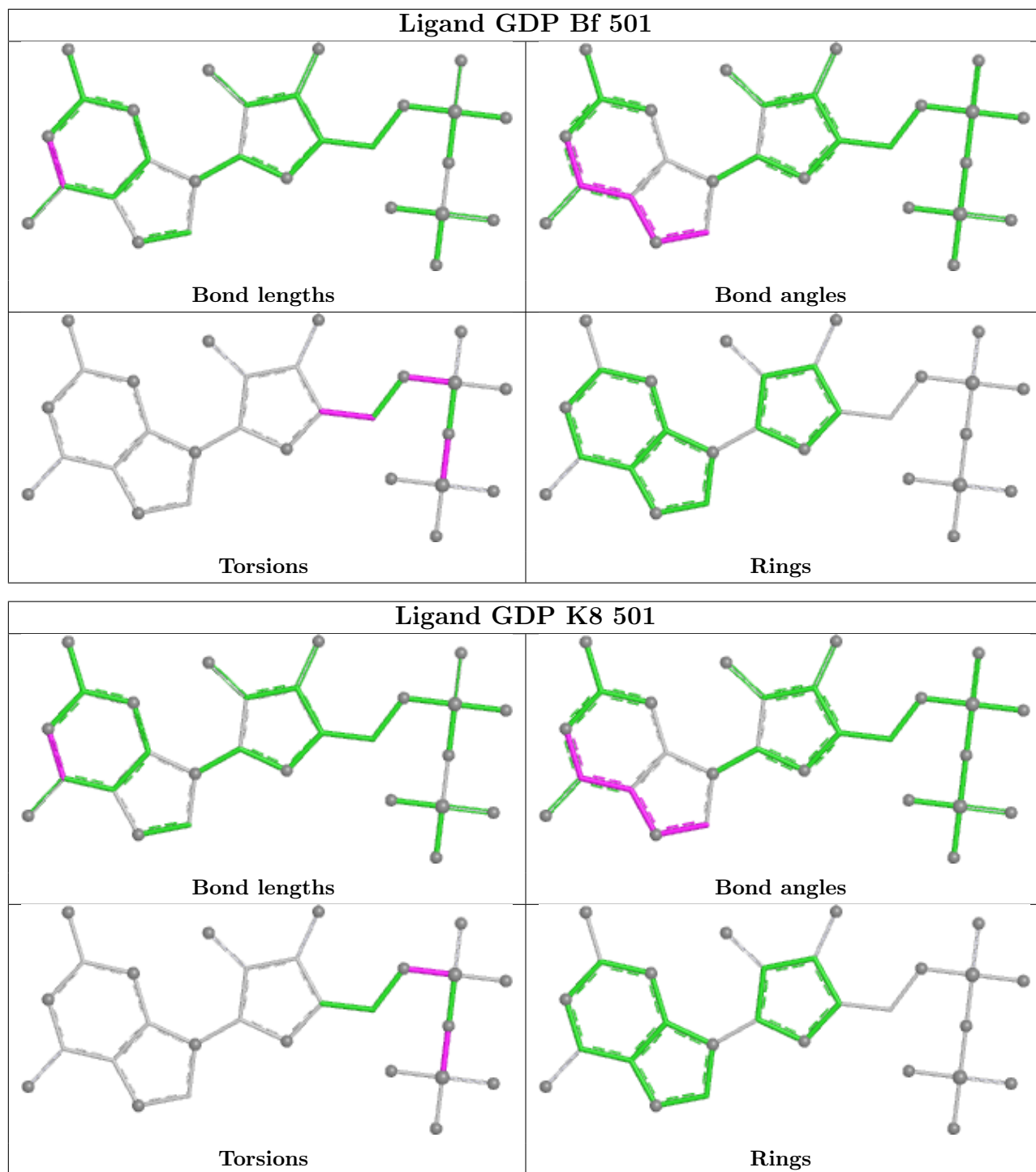


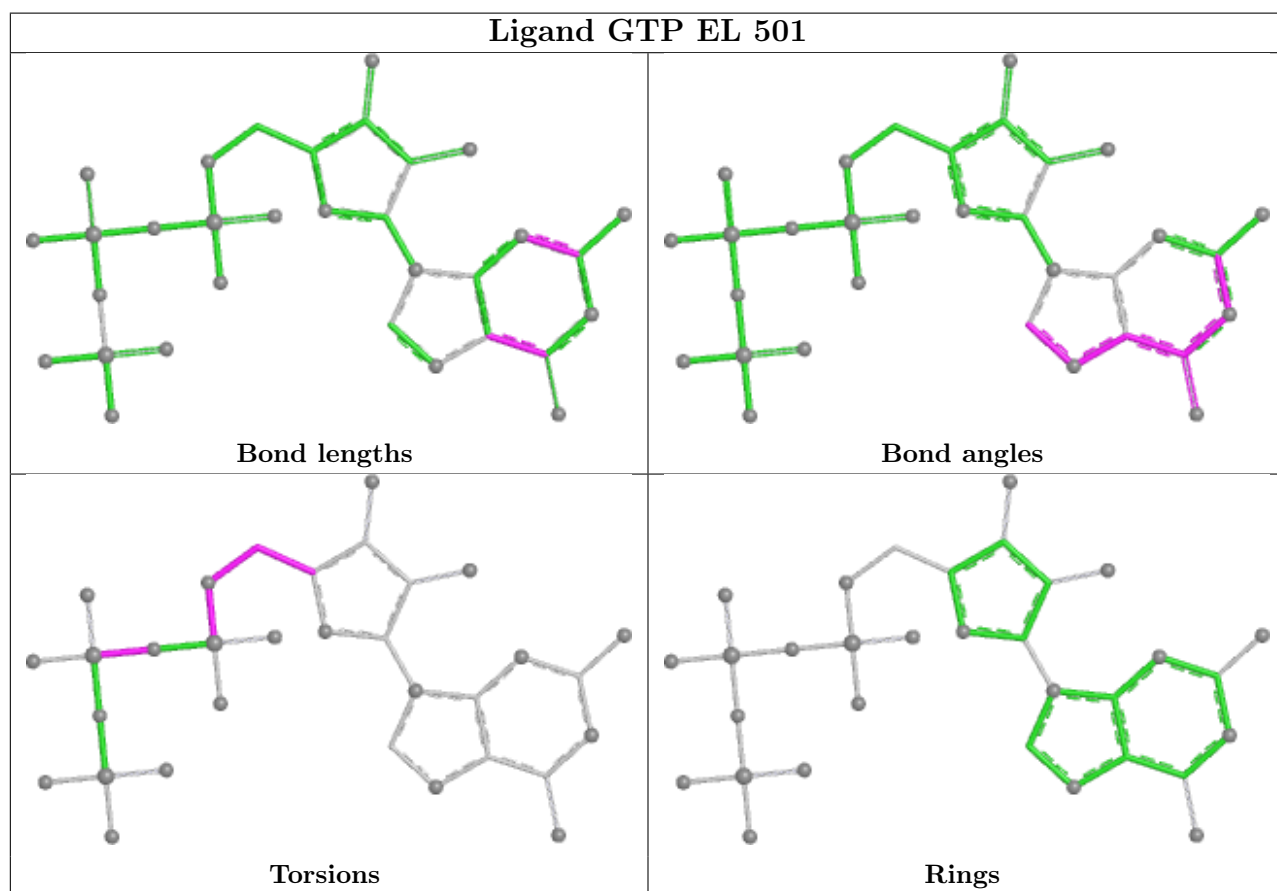
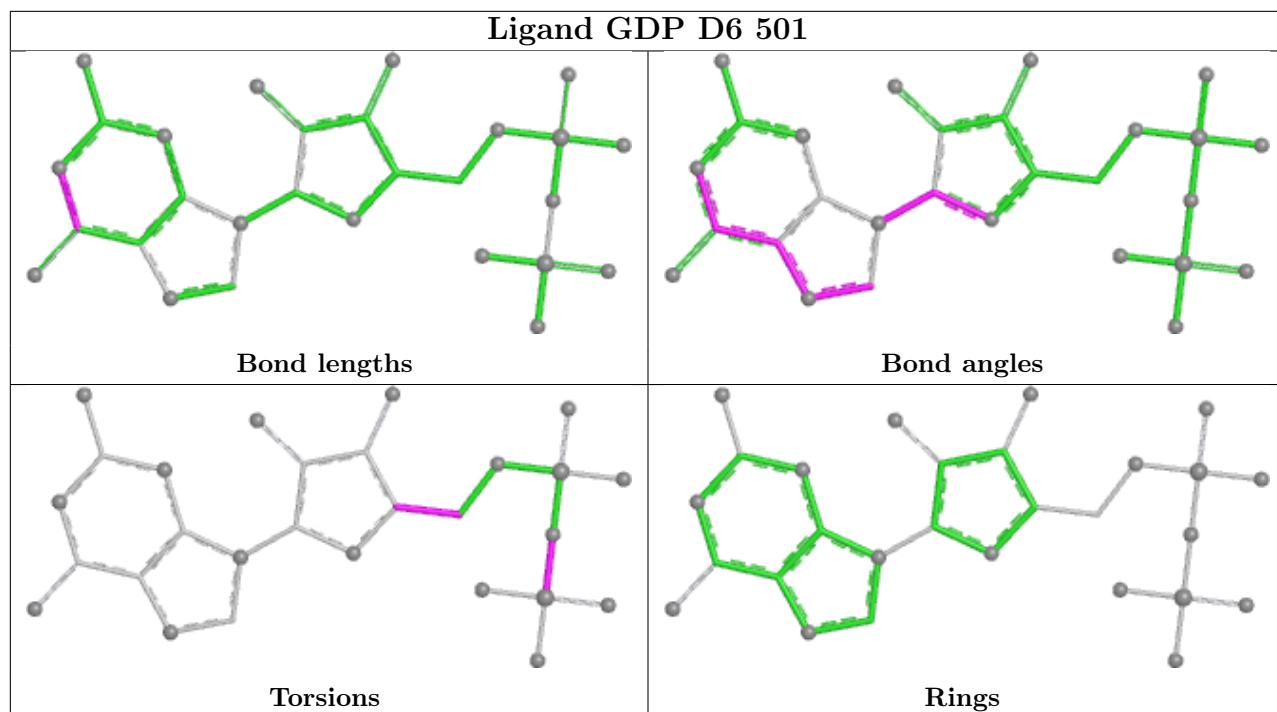


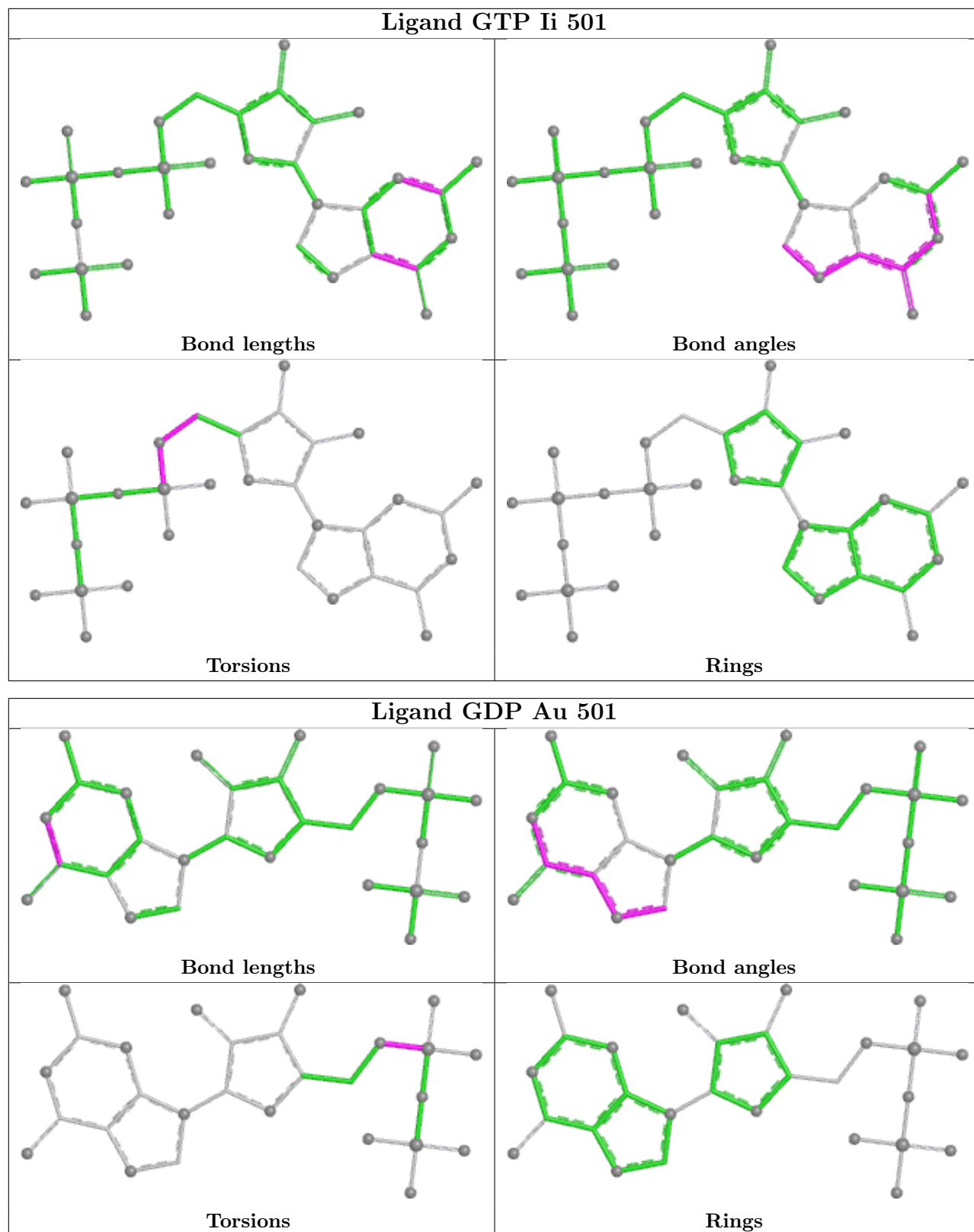


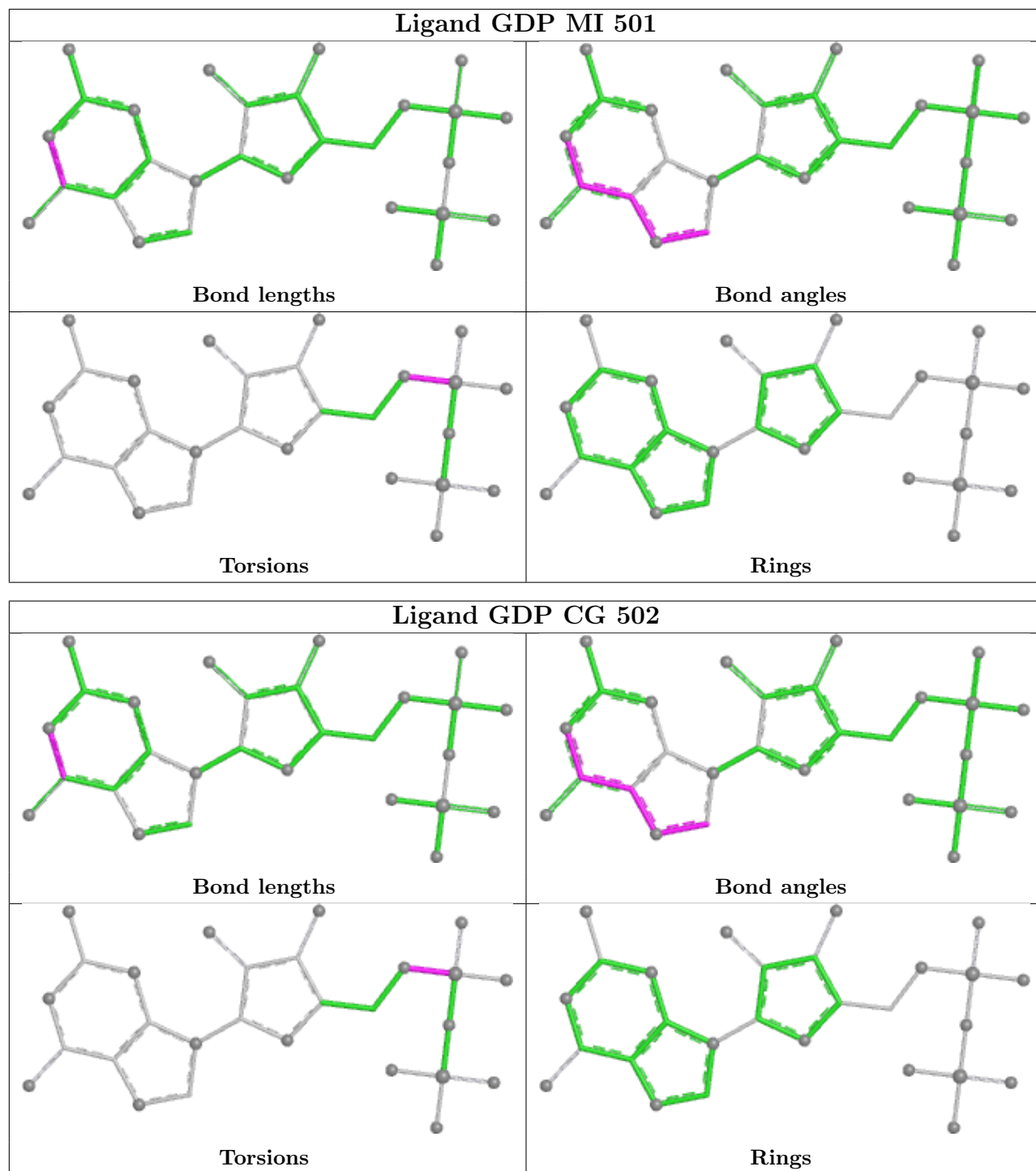


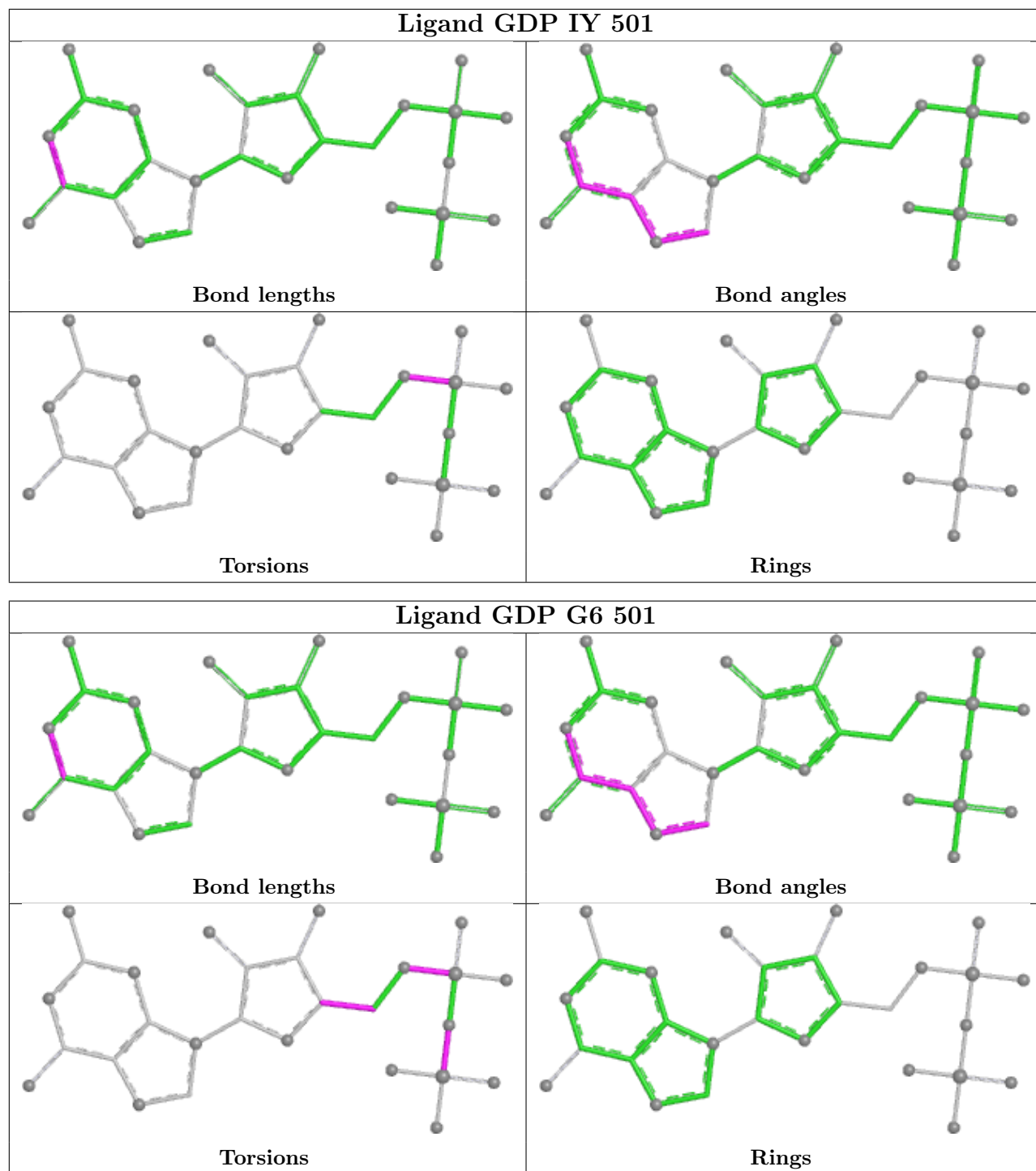


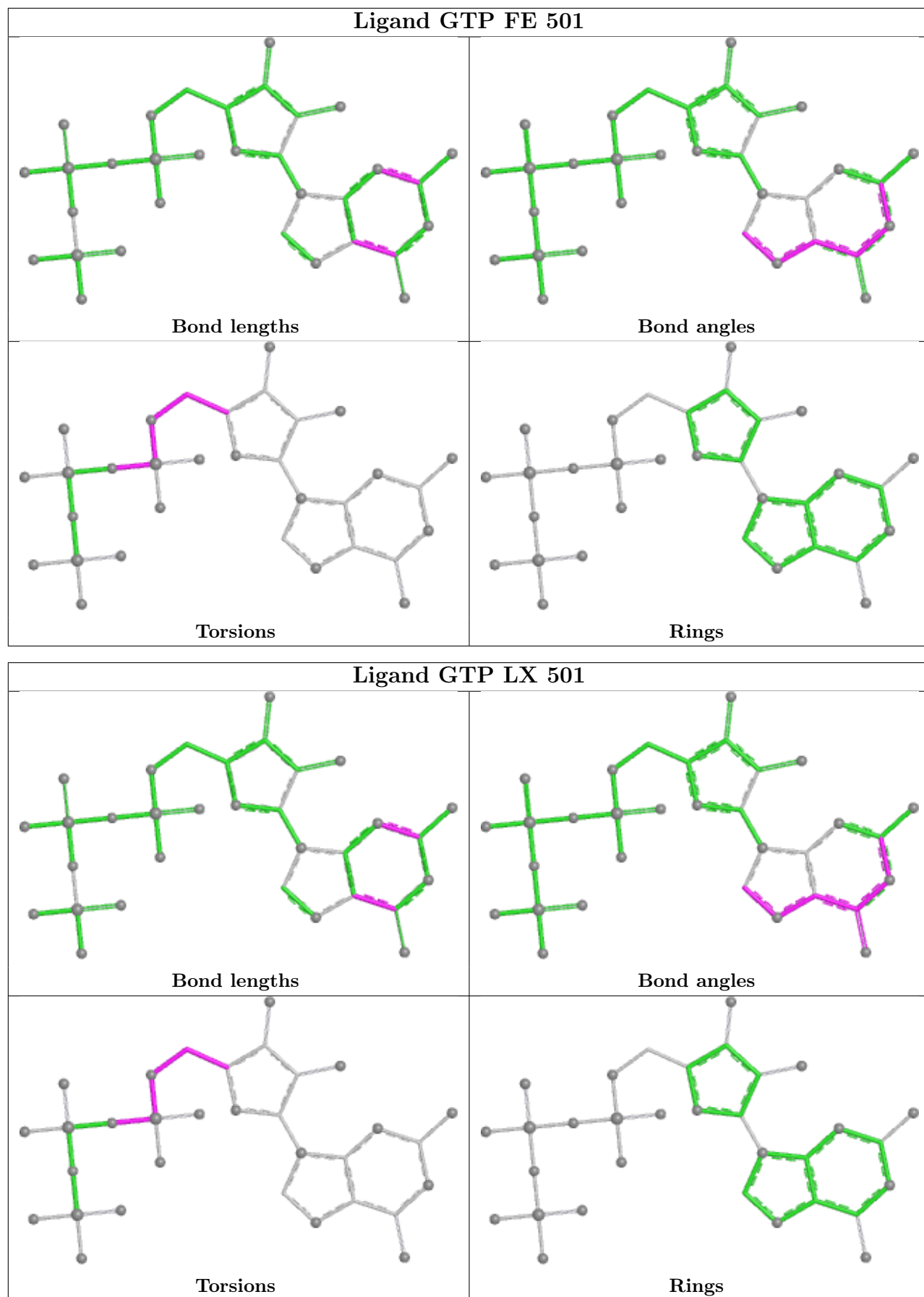


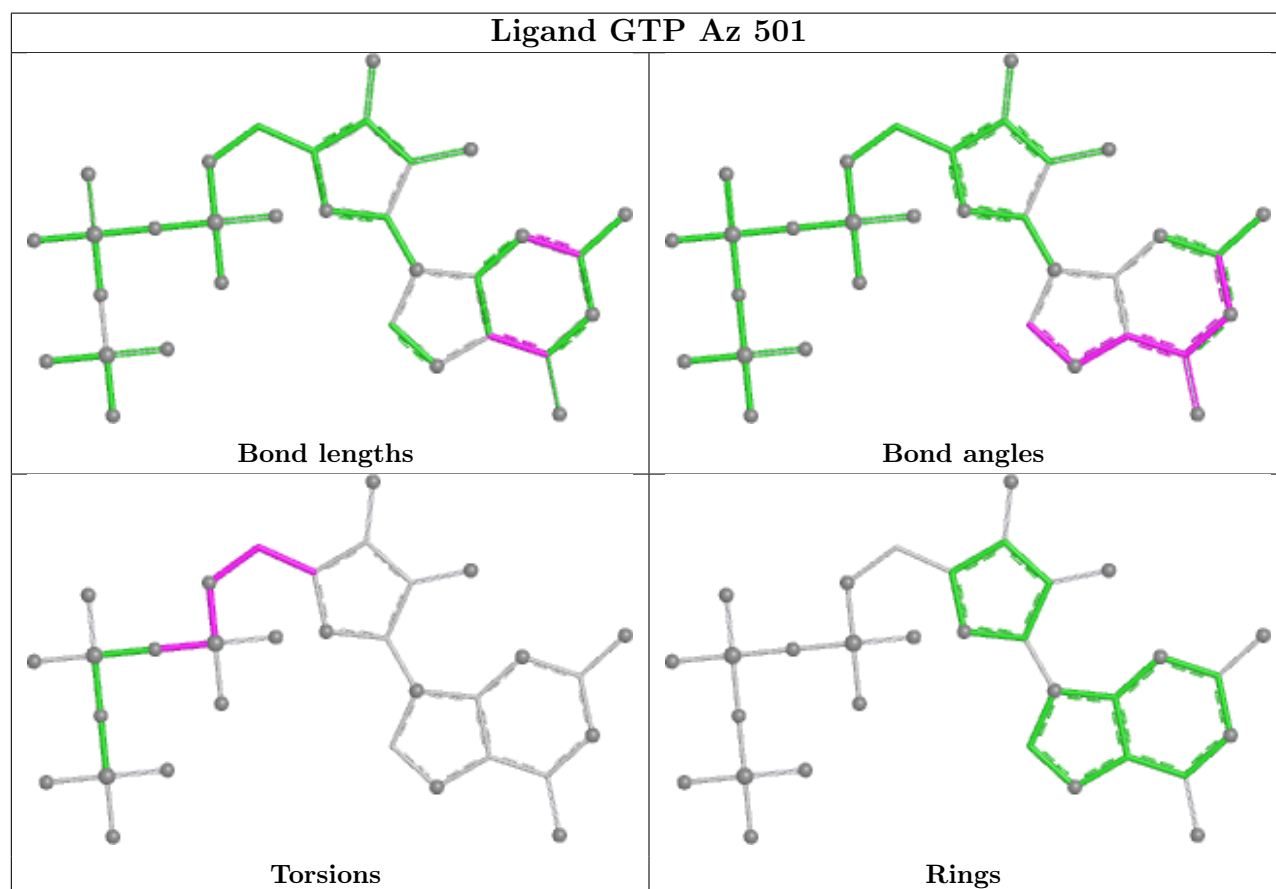
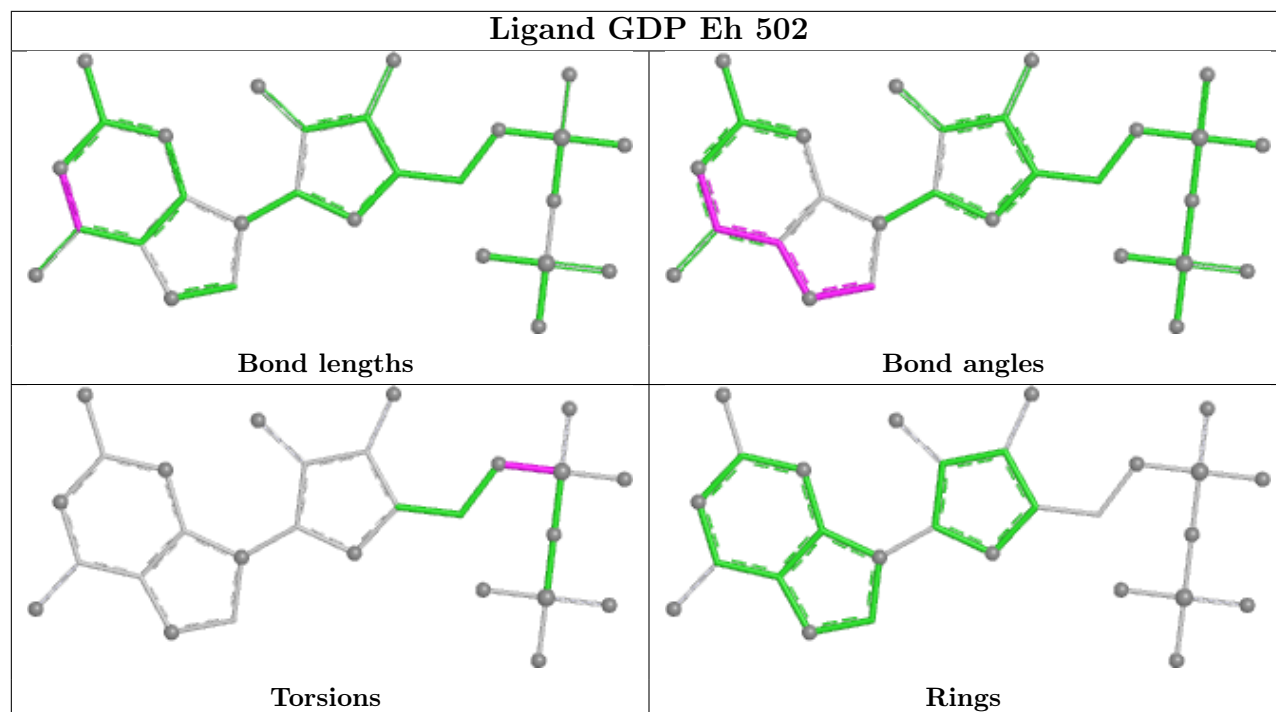


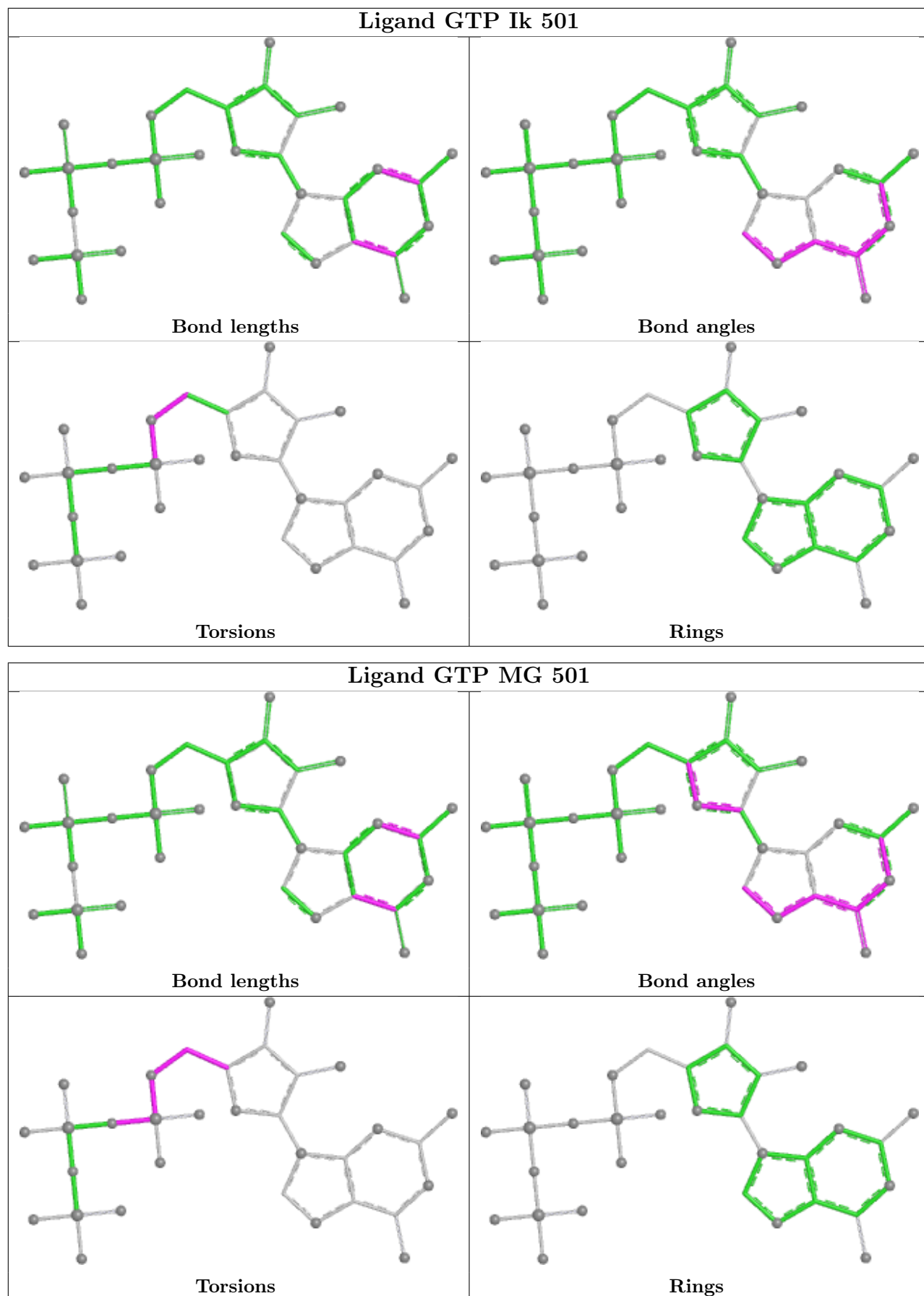


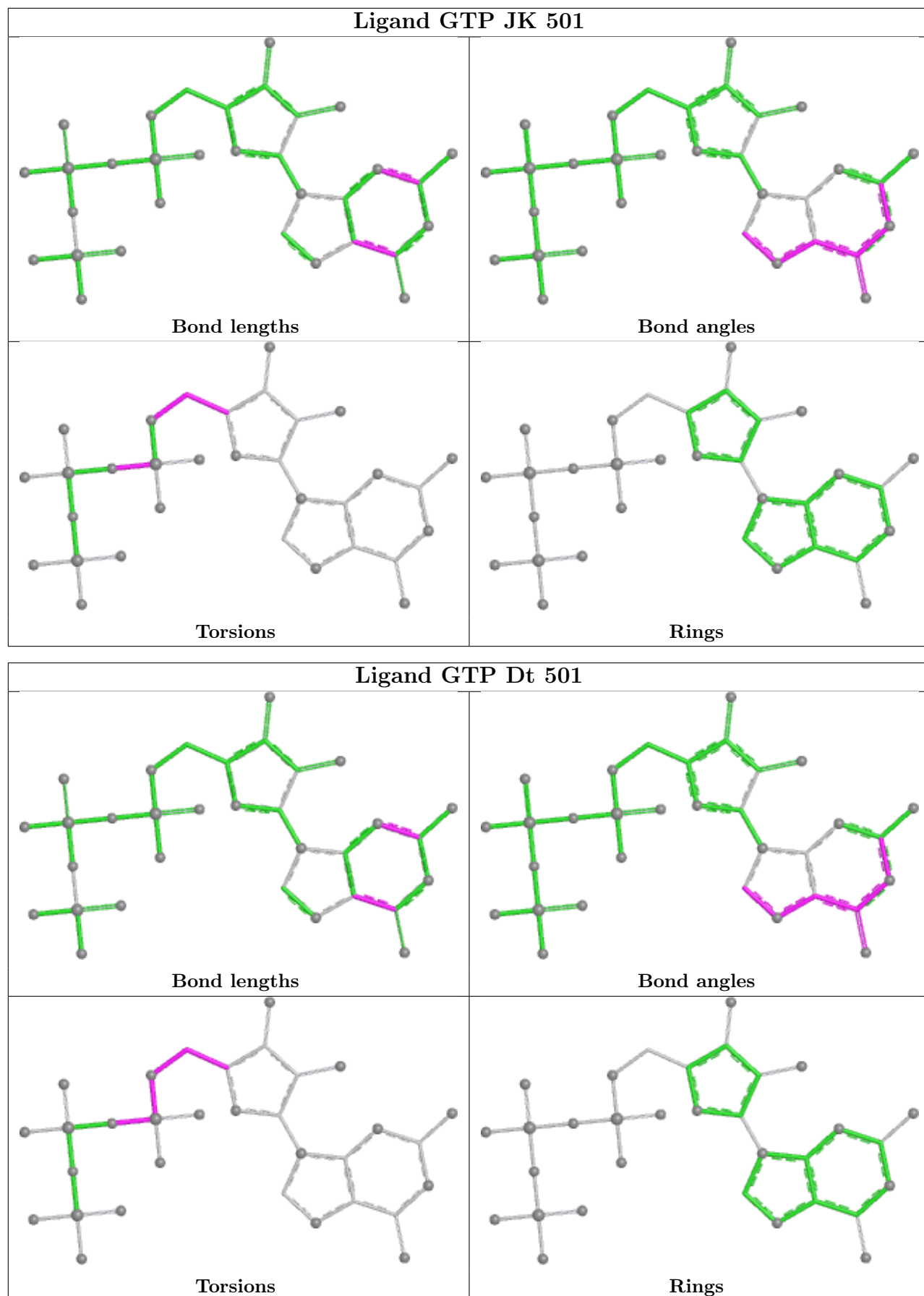


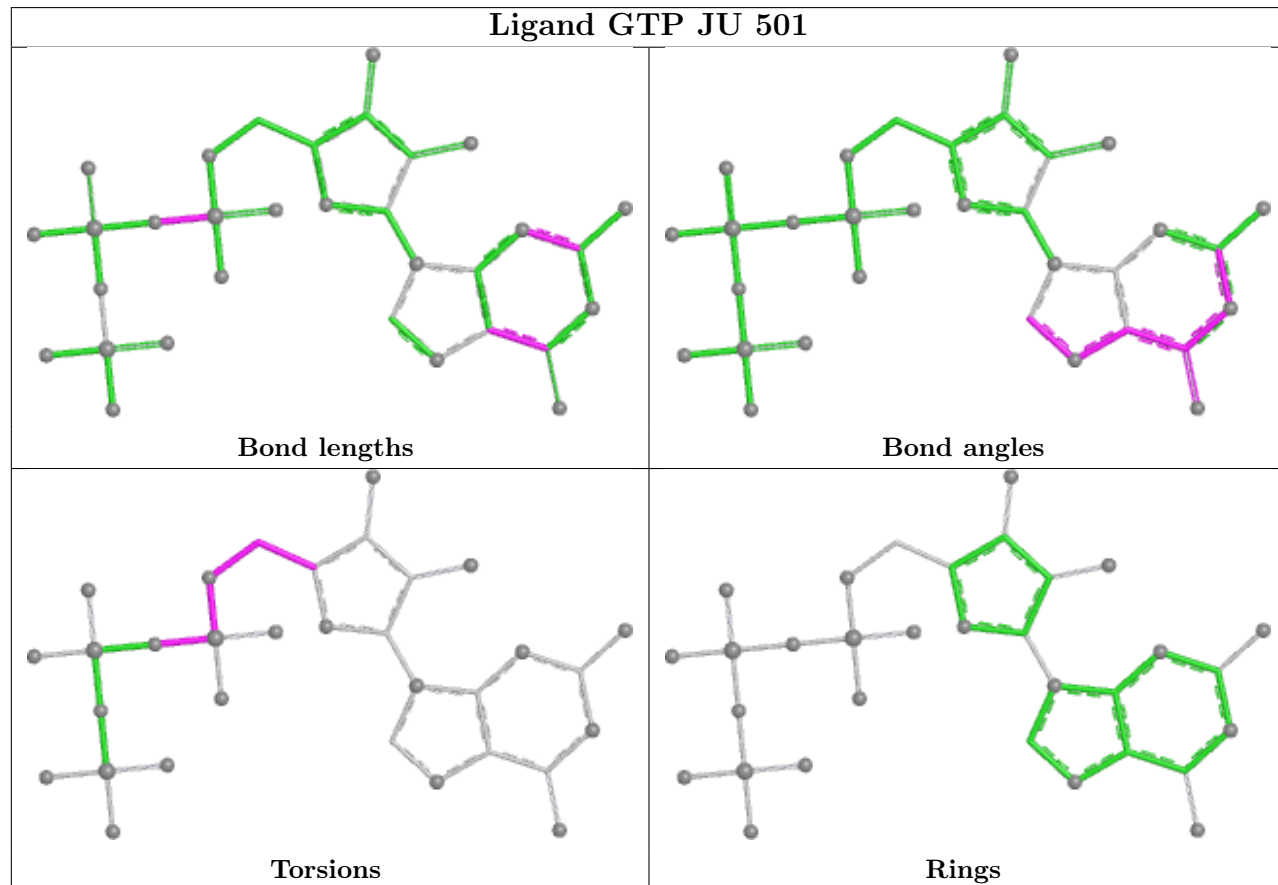
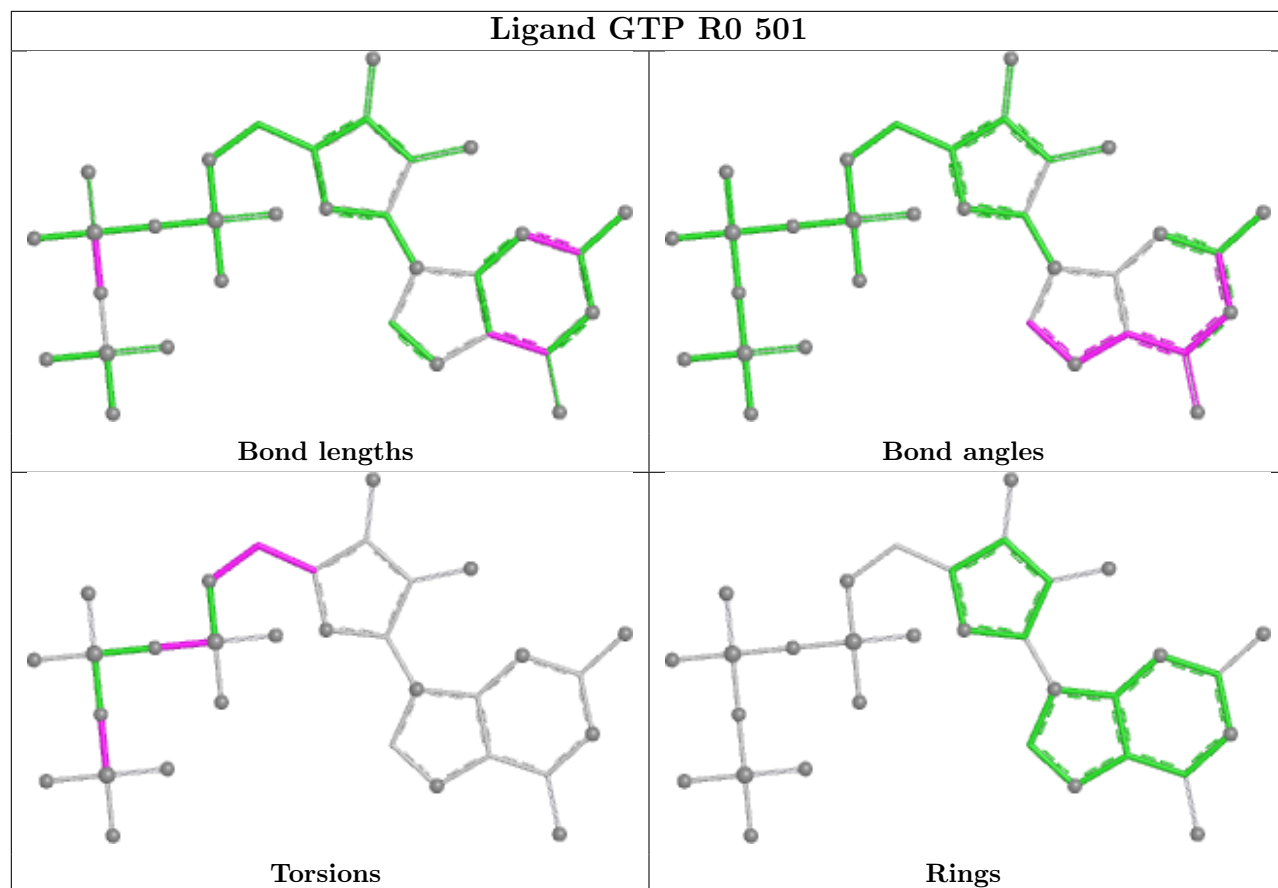


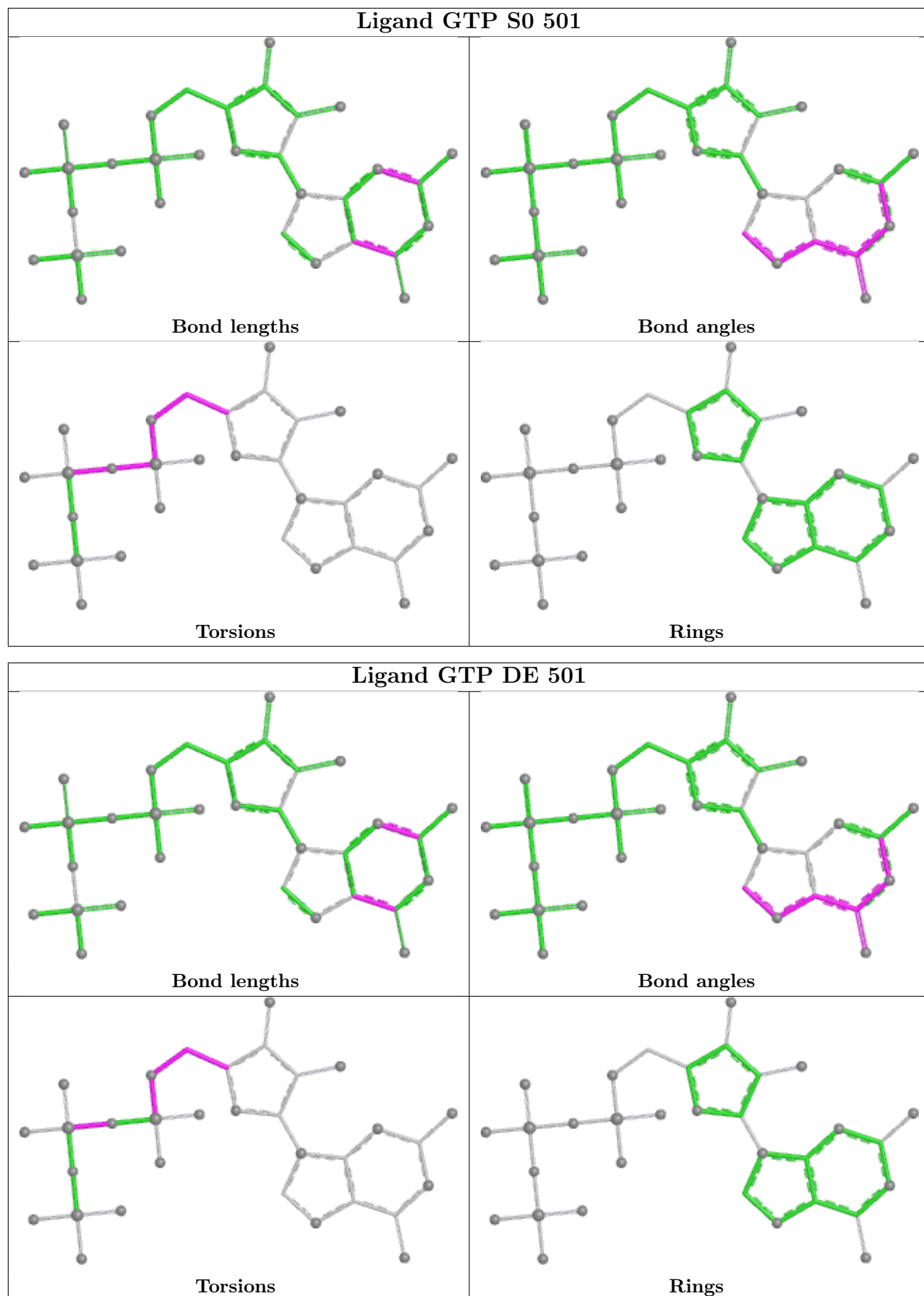


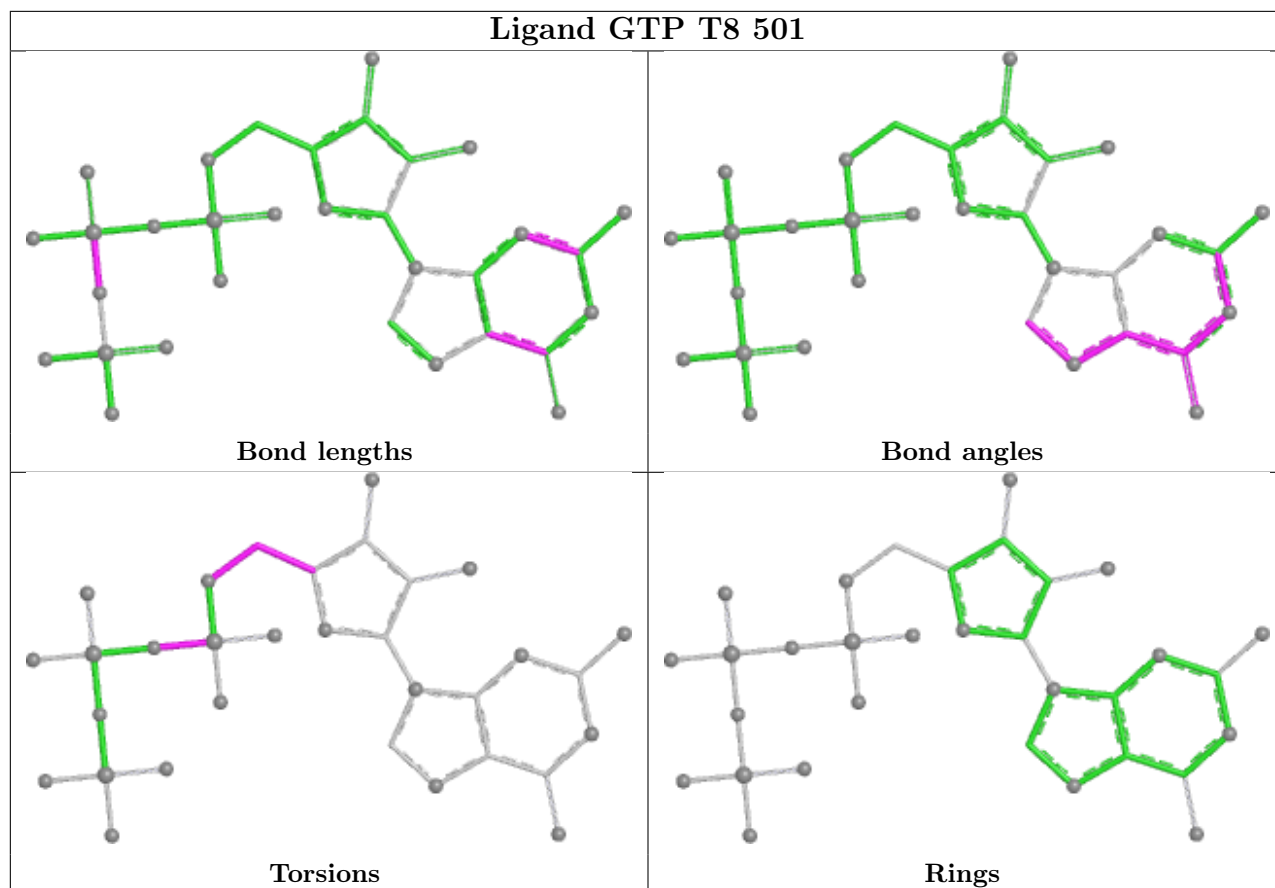












5.7 Other polymers [\(i\)](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [\(i\)](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
5	OA	1
10	7B	1
7	OG	1
59	Cp	1
59	Cq	1
84	OL	1
7	Ga	1
76	Ey	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	OA	445:ARG	C	446:SER	N	3.27
1	7B	97:GLY	C	98:VAL	N	3.16
1	OG	304:HIS	C	305:ASP	N	3.11
1	Cp	669:LEU	C	670:THR	N	3.08
1	Cq	668:GLU	C	669:LEU	N	3.08
1	OL	325:MET	C	326:GLU	N	2.99
1	Ga	270:GLU	C	271:LYS	N	2.96
1	Ey	252:GLN	C	253:ILE	N	1.66

6 Map visualisation

This section contains visualisations of the EMDB entry EMD-40220. These allow visual inspection of the internal detail of the map and identification of artifacts.

No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

This section was not generated.

6.2 Central slices

This section was not generated.

6.3 Largest variance slices

This section was not generated.

6.4 Orthogonal standard-deviation projections (False-color)

This section was not generated.

6.5 Orthogonal surface views

This section was not generated.

6.6 Mask visualisation

This section was not generated. No masks/segmentation were deposited.

7 Map analysis

This section contains the results of statistical analysis of the map.

7.1 Map-value distribution

This section was not generated.

7.2 Volume estimate versus contour level

This section was not generated.

7.3 Rotationally averaged power spectrum

This section was not generated. The rotationally averaged power spectrum had issues being displayed.

8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit

This section was not generated.