

checkCIF/PLATON (standard)

You have not supplied any structure factors. As a result the full set of tests cannot be run.

No syntax errors found.
Please wait while processing

[CIF dictionary](#)
[Interpreting this report](#)

Datablock: LDiPPH2OTf2

Bond precision:	C-C = 0.0091 Å	Wavelength=0.71073
Cell:	a=15.6001(11) b=24.6198(11) c=9.9798(4)	
	alpha=90 beta=103.562(4) gamma=90	
Temperature:	120 K	

	Calculated	Reported
Volume	3726.1(4)	3726.1(4)
Space group	C 2/c	C2/c
Hall group	-C 2yc	-C 2yc
Moiety formula	C31 H42 N4, 2(C F3 O3 S)	C31 H42 N4, 2(C F3 O3 S)
Sum formula	C33 H42 F6 N4 O6 S2	C33 H42 F6 N4 O6 S2
Mr	768.85	768.83
Dx, g cm ⁻³	1.371	1.371
Z	4	4
Mu (mm ⁻¹)	0.220	0.220
F000	1608.0	1608.0
F000'	1609.96	
h, k, lmax	18, 29, 11	18, 29, 11
Nref	3301	3291
Tmin, Tmax	0.979, 0.983	0.961, 0.981
Tmin'	0.961	
Correction method=	MULTI-SCAN	
Data completeness=	0.997	Theta(max)= 25.030
R(reflections)=	0.1011(2654)	wR2(reflections)= 0.2101(3291)
S =	1.216	Npar= 241

The following ALERTS were generated. Each ALERT has the format

test-name_ALERT_alert-type_alert-level.

Click on the hyperlinks for more details of the test.

● Alert level C

[RFACG01_ALERT_3_C](#) The value of the R factor is > 0.10
R factor given 0.101

PLAT244_ALERT_4_C Low 'Solvent' Ueq as Compared to Neighbors of	S1
PLAT244_ALERT_4_C Low 'Solvent' Ueq as Compared to Neighbors of	C17
PLAT340_ALERT_3_C Low Bond Precision on C-C Bonds	0.0091 Ang
PLAT366_ALERT_2_C Short? C(sp?)-C(sp?) Bond C1 - C2 ...	1.39 Ang.
PLAT366_ALERT_2_C Short? C(sp?)-C(sp?) Bond C2 - C3 ...	1.39 Ang.

● Alert level G

PLAT002_ALERT_2_G Number of Distance or Angle Restraints on AtSite	7
PLAT005_ALERT_5_G No _iucr_refine_instructions_details in CIF	?
PLAT083_ALERT_2_G SHELXL Second Parameter in WGHT Unusually Large.	43.73
PLAT301_ALERT_3_G Note: Main Residue Disorder	17 Perc.
PLAT720_ALERT_4_G Number of Unusual/Non-Standard Labels	12
PLAT860_ALERT_3_G Note: Number of Least-Squares Restraints	6

0 **ALERT level A** = Most likely a serious problem - resolve or explain
0 **ALERT level B** = A potentially serious problem, consider carefully
6 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
6 **ALERT level G** = General information/check it is not something unexpected

0 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
4 ALERT type 2 Indicator that the structure model may be wrong or deficient
4 ALERT type 3 Indicator that the structure quality may be low
3 ALERT type 4 Improvement, methodology, query or suggestion
1 ALERT type 5 Informative message, check

Datablock: Lmes

Bond precision: C-C = 0.0017 A Wavelength=0.69110
 Cell: a=8.030(3) b=9.795(3) c=28.373(10)
 alpha=90 beta=97.544(3) gamma=90
 Temperature: 120 K

	Calculated	Reported
Volume	2212.3(13)	2212.3(13)
Space group	P 21/c	P21/c
Hall group	-P 2ybc	-P 2ybc
Moiety formula	C25 H28 N4	C25 H28 N4
Sum formula	C25 H28 N4	C25 H28 N4
Mr	384.51	384.51
Dx, g cm-3	1.155	1.154
Z	4	4
Mu (mm-1)	0.065	0.069
F000	824.0	824.0
F000'	824.89	
h,k,lmax	11,14,40	11,14,39
Nref	6994	6380
Tmin,Tmax		0.989,0.995
Tmin'	0.961	

Correction method= MULTI-SCAN
 Data completeness= 0.912 Theta(max)= 29.950
 R(reflections)= 0.0539(5380) wR2(reflections)= 0.1601(6380)
 S = 1.035 Npar= 268

The following ALERTS were generated. Each ALERT has the format

test-name_ALERT_alert-type_alert-level.

Click on the hyperlinks for more details of the test.

Alert level A

[PLAT029_ALERT_3_A](#) _diffn_measured_fraction_theta_full Low 0.913

Alert level C

REFLT03_ALERT_3_C Reflection count < 95% complete
 From the CIF: _diffn_refl_theta_max 29.95
 From the CIF: _diffn_refl_theta_full 29.95
 From the CIF: _reflns_number_total 6380
 TEST2: Reflns within _diffn_refl_theta_max
 Count of symmetry unique reflns 6994
 Completeness (_total/calc) 91.22%

Alert level G

[PLAT005_ALERT_5_G](#) No _iucr_refine_instructions_details in CIF ?
[PLAT343_ALERT_2_G](#) Check sp? Angle Range in Main Residue for .. C10
[PLAT343_ALERT_2_G](#) Check sp? Angle Range in Main Residue for .. C14
[PLAT984_ALERT_1_G](#) The H-f'= 0.000 Deviates from the B&C-Value 0.006

- 1 **ALERT level A** = Most likely a serious problem - resolve or explain
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 1 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
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- 1 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
 2 ALERT type 2 Indicator that the structure model may be wrong or deficient
 2 ALERT type 3 Indicator that the structure quality may be low
 0 ALERT type 4 Improvement, methodology, query or suggestion
 1 ALERT type 5 Informative message, check

Datablock: LDiPPTe2

Bond precision: C-C = 0.0082 A Wavelength=0.71073
 Cell: a=12.1082(10) b=16.4200(13) c=18.3694(15)
 alpha=90 beta=99.721(2) gamma=90
 Temperature: 120 K

	Calculated	Reported
Volume	3599.7(5)	3599.7(5)
Space group	P 21/c	P21/c
Hall group	-P 2ybc	-P 2ybc
Moiety formula	C31 H40 N4 Te2, C6 H6	C31 H40 N4 Te2, C6 D6

Sum formula	C 37 ³⁸ H 46 ⁴⁰ N ₄ Te ₂	C 37 ³⁸ H 46 ⁴⁰ D ₆ N ₄ Te ₂
Dx, g cm ⁻³	1.480	1.491
Z	4	4
Mu (mm ⁻¹)	1.650	1.650
F000	1600.0	1600.0
F000'	1596.18	
h, k, lmax	16, 21, 24	15, 21, 23
Nref	8698	8380
Tmin, Tmax	0.794, 0.984	0.802, 0.984
Tmin'	0.794	
Correction method= MULTI-SCAN		
Data completeness=	0.963	Theta(max)= 28.020
R(reflections)=	0.0508(6807)	wR2(reflections)= 0.1143(8380)
S =	1.104	Npar= 396

The following ALERTS were generated. Each ALERT has the format

test-name_ALERT_alert-type_alert-level.

Click on the hyperlinks for more details of the test.

Alert level C

PLAT029_ALERT_3_C_diffnrm_measured_fraction_theta_full Low 0.963
 PLAT041_ALERT_1_C Calc. and Reported SumFormula Strings Differ ?
 PLAT250_ALERT_2_C Large U3/U1 Ratio for Average U(i,j) Tensor 3.8
 PLAT342_ALERT_3_C Low Bond Precision on C-C Bonds 0.0082 Ang

Alert level G

FORMU01_ALERT_2_G There is a discrepancy between the atom counts in the
 _chemical_formula_sum and the formula from the _atom_site* data.

Atom count from _chemical_formula_sum: C37 H40 D6 N4 Te2

Atom count from the _atom_site data: C37 H46 N4 Te2

CELLZ01_ALERT_1_G Difference between formula and atom_site contents detected.

CELLZ01_ALERT_1_G ALERT: Large difference may be due to a

symmetry error - see SYMMG tests

From the CIF: _cell_formula_units_Z 4

From the CIF: _chemical_formula_sum C37 H40 D6 N4 Te2

TEST: Compare cell contents of formula and atom_site data

atom	Z*formula	cif sites	diff
C	148.00	148.00	0.00
H	160.00	184.00	-24.00
D	24.00	0.00	24.00
N	16.00	16.00	0.00
Te	8.00	8.00	0.00

PLAT005_ALERT_5_G No _iucr_refine_instructions_details in CIF ?

PLAT017_ALERT_1_G Check Consistency of Scattering Type H for D32

PLAT017_ALERT_1_G Check Consistency of Scattering Type H for D33

PLAT017_ALERT_1_G Check Consistency of Scattering Type H for D34

PLAT017_ALERT_1_G Check Consistency of Scattering Type H for D35

PLAT017_ALERT_1_G Check Consistency of Scattering Type H for D36

PLAT017_ALERT_1_G Check Consistency of Scattering Type H for D37

PLAT042_ALERT_1_G Calc. and Reported MoietyFormula Strings Differ ?

PLAT083_ALERT_2_G SHELXL Second Parameter in WGHT Unusually Large. 20.24

PLAT720_ALERT_4_G Number of Unusual/Non-Standard Labels 6

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10 ALERT type 1 CIF construction/syntax error, inconsistent or missing data

3 ALERT type 2 Indicator that the structure model may be wrong or deficient

2 ALERT type 3 Indicator that the structure quality may be low

1 ALERT type 4 Improvement, methodology, query or suggestion

1 ALERT type 5 Informative message, check

Datablock: complex1

Bond precision:	C-C = 0.0035 A	Wavelength=0.68930
Cell:	a=9.2015(18) b=18.932(4)	c=19.892(4)
	alpha=90 beta=90	gamma=90
Temperature: 120 K		
	Calculated	Reported
Volume	3465.2(12)	3465.2(12)

Space group	P 21 21 21	P212121
Hall group	P 2ac 2ab	?
Moiety formula	C33 H46 N4 Pd, C4 H8 O	?
Sum formula	C37 H54 N4 O Pd	C148 H216 N16 O4 Pd4
Mr	677.24	2708.97
Dx,g cm-3	1.298	0.000
Z	4	1
Mu (mm-1)	0.518	0.000
F000	1432.0	0.0
F000'	1428.13	
h,k,lmax	13,27,29	13,26,28
Nref	6406[11601]	10304
Tmin,Tmax		
Tmin'	0.794	
Correction method=	Not given	
Data completeness=	1.61/0.89	Theta(max)= 30.510
R(reflections)=	0.0309(9778)	wR2(reflections)= 0.0711(10304)
S =	1.019	Npar= 411

The following ALERTS were generated. Each ALERT has the format

test-name_ALERT_alert-type_alert-level.

Click on the hyperlinks for more details of the test.

Alert level C

PLAT234_ALERT_4_C Large Hirshfeld Difference C35B -- C36B .. 0.16 Ang.
 PLAT250_ALERT_2_C Large U3/U1 Ratio for Average U(i,j) Tensor 2.9

Alert level G

REFLT03_ALERT_4_G Please check that the estimate of the number of Friedel pairs is correct. If it is not, please give the correct count in the

_publ_section_exptl_refinement section of the submitted CIF.

From the CIF: _diffrn_refl_theta_max 30.51

From the CIF: _reflns_number_total 10304

Count of symmetry unique reflns 6406

Completeness (_total/calc) 160.85%

TEST3: Check Friedels for noncentro structure

Estimate of Friedel pairs measured 3898

Fraction of Friedel pairs measured 0.608

Are heavy atom types Z>Si present yes

PLAT002_ALERT_2_G Number of Distance or Angle Restraints on AtSite 9
 PLAT005_ALERT_5_G No _iucr_refine_instructions_details in CIF ?
 PLAT045_ALERT_1_G Calculated and Reported Z Differ by 4.00 Ratio
 PLAT244_ALERT_4_G Low 'Solvent' Ueq as Compared to Neighbors of C34B
 PLAT244_ALERT_4_G Low 'Solvent' Ueq as Compared to Neighbors of C36B
 PLAT244_ALERT_4_G Low 'Solvent' Ueq as Compared to Neighbors of C34A
 PLAT244_ALERT_4_G Low 'Solvent' Ueq as Compared to Neighbors of C36A
 PLAT302_ALERT_4_G Note: Anion/Solvent Disorder 80 Perc.
 PLAT710_ALERT_4_G Delete 1-2-3 or 2-3-4 Linear Torsion Angle ... # 101
 N2 -C3 -PD1 -C32 94.20 1.50 1.555 1.555 1.555 1.555
 PLAT710_ALERT_4_G Delete 1-2-3 or 2-3-4 Linear Torsion Angle ... # 102
 N3 -C3 -PD1 -C32 -85.70 1.50 1.555 1.555 1.555 1.555
 PLAT710_ALERT_4_G Delete 1-2-3 or 2-3-4 Linear Torsion Angle ... # 111
 N4 -C1 -PD1 -C33 -29.00 3.00 1.555 1.555 1.555 1.555
 PLAT710_ALERT_4_G Delete 1-2-3 or 2-3-4 Linear Torsion Angle ... # 112
 N1 -C1 -PD1 -C33 143.00 3.00 1.555 1.555 1.555 1.555
 PLAT779_ALERT_4_G Suspect or Irrelevant (Bond) Angle in CIF # 205
 C34A -O1 -C34B 1.555 1.555 1.555 10.00 Deg.
 PLAT779_ALERT_4_G Suspect or Irrelevant (Bond) Angle in CIF # 210
 C37A -O1 -C37B 1.555 1.555 1.555 13.20 Deg.
 PLAT860_ALERT_3_G Note: Number of Least-Squares Restraints 10
 PLAT984_ALERT_1_G The Pd-f' = -0.999 Deviates from the B&C-Value -1.052
 PLAT985_ALERT_1_G The Pd-f'' = 1.007 Deviates from the B&C-Value 0.957

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3 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
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 13 ALERT type 4 Improvement, methodology, query or suggestion
 1 ALERT type 5 Informative message, check

Datablock: complex2

Bond precision: C-C = 0.0073 A Wavelength=0.71073

Cell: a=9.1685(1) b=18.9619(2) c=19.9278(2)
 alpha=90 beta=90 gamma=90

Temperature: 120 K

	Calculated	Reported
Volume	3464.49(6)	3464.49(6)
Space group	P 21 21 21	P212121
Hall group	P 2ac 2ab	?
Moiety formula	C33 H46 N4 Pt, C4 H8 O	C33 H46 N4 Pt, (C4 H8 O)
Sum formula	C37 H54 N4 O Pt	C37 H54 N4 O Pt
Mr	765.92	765.93
Dx, g cm ⁻³	1.468	1.468
Z	4	4
Mu (mm ⁻¹)	4.084	4.084
F000	1560.0	1560.0
F000'	1553.79	
h, k, lmax	11, 24, 25	11, 24, 25
Nref	4442 [7946]	7809
Tmin, Tmax	0.907, 0.922	0.686, 0.923
Tmin'	0.665	

Correction method= MULTI-SCAN

Data completeness= 1.76/0.98 Theta(max)= 27.490

R(reflections)= 0.0306(7346) wR2(reflections)= 0.0628(7809)

S = 1.130 Npar= 399

The following ALERTS were generated. Each ALERT has the format
[test-name_ALERT_alert-type_alert-level](#).
 Click on the hyperlinks for more details of the test.

●Alert level C

STRVA01_ALERT_2_C Chirality of atom sites is inverted?
 From the CIF: `_refine_ls_abs_structure_Flack` 0.915
 From the CIF: `_refine_ls_abs_structure_Flack_su` 0.007

PLAT033_ALERT_4_C Flack x Parameter Value Deviates from Zero 0.915

PLAT223_ALERT_4_C Large Solvent/Anion H Ueq(max)/Ueq(min) ... 3.4 Ratio

PLAT243_ALERT_4_C High 'Solvent' Ueq as Compared to Neighbors of C47

PLAT244_ALERT_4_C Low 'Solvent' Ueq as Compared to Neighbors of C45

PLAT244_ALERT_4_C Low 'Solvent' Ueq as Compared to Neighbors of C46

PLAT360_ALERT_2_C Short C(sp3)-C(sp3) Bond C45 - C47 ... 1.40 Ang.

●Alert level G

REFLT03_ALERT_4_G Please check that the estimate of the number of Friedel pairs is correct. If it is not, please give the correct count in the `_publ_section_exptl_refinement` section of the submitted CIF.

From the CIF: `_diffn_refl_theta_max` 27.49
 From the CIF: `_reflns_number_total` 7809
 Count of symmetry unique reflns 4442
 Completeness (`_total/calc`) 175.80%
 TEST3: Check Friedels for noncentro structure
 Estimate of Friedel pairs measured 3367
 Fraction of Friedel pairs measured 0.758
 Are heavy atom types Z>Si present yes

PLAT005_ALERT_5_G No `_iucr_refine_instructions_details` in CIF ?

PLAT042_ALERT_1_G Calc. and Reported MoietyFormula Strings Differ ?

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 0 ALERT type 3 Indicator that the structure quality may be low
 6 ALERT type 4 Improvement, methodology, query or suggestion
 1 ALERT type 5 Informative message, check

Datablock: complex3

Bond precision: C-C = 0.0096 A Wavelength=0.71073

Cell: a=13.6258(4) b=24.9908(7) c=25.1385(4)
 alpha=90 beta=90 gamma=90

Temperature: 153 K

	Calculated	Reported
Volume	8560.2(4)	8560.2(4)
Space group	P b c a	P b c a
Hall group	-P 2ac 2ab	?
Moiety formula	C39 H52 Ir N4, F6 P, C4 H8 O	C39 H52 Ir N4, P F6, C4 H8 O
Sum formula	C43 H60 F6 Ir N4 O P	C43 H60 F6 Ir N4 O P
Mr	986.14	986.12
Dx, g cm ⁻³	1.530	1.530
Z	8	8
Mu (mm ⁻¹)	3.221	3.221
F000	4000.0	4000.0
F000'	3991.14	
h,k,lmax	16,30,31	16,30,31
Nref	8416	8381
Tmin, Tmax	0.497, 0.773	0.435, 0.445
Tmin'	0.487	
Correction method=	CYLINDER	
Data completeness=	0.996	Theta(max)= 26.000
R(reflections)=	0.0459(6086)	wR2(reflections)= 0.1155(8381)
s =	1.046	Npar= 530

The following ALERTS were generated. Each ALERT has the format

test-name_ALERT_alert-type_alert-level.

Click on the hyperlinks for more details of the test.

Alert level C

PLAT220_ALERT_2_C Large Non-Solvent C Ueq(max)/Ueq(min) ... 3.3 Ratio
 PLAT244_ALERT_4_C Low 'Solvent' Ueq as Compared to Neighbors of P1
 PLAT342_ALERT_3_C Low Bond Precision on C-C Bonds 0.0096 Ang

Alert level G

PLAT002_ALERT_2_G Number of Distance or Angle Restraints on AtSite 12
 PLAT003_ALERT_2_G Number of Uiso or Uij Restrained Atom Sites 57
 PLAT005_ALERT_5_G No _iucr_refine_instructions_details in CIF ?
 PLAT042_ALERT_1_G Calc. and Reported MoietyFormula Strings Differ ?
 PLAT083_ALERT_2_G SHELXL Second Parameter in WGHT Unusually Large. 17.54
 PLAT195_ALERT_1_G Missing _cell_measurement_theta_max datum ?
 PLAT196_ALERT_1_G Missing _cell_measurement_theta_min datum ?
 PLAT301_ALERT_3_G Note: Main Residue Disorder 5 Perc.
 PLAT779_ALERT_4_G Suspect or Irrelevant (Bond) Angle in CIF # 142
 C29A -C30 -C29B 1.555 1.555 1.555 27.80 Deg.
 PLAT779_ALERT_4_G Suspect or Irrelevant (Bond) Angle in CIF # 147
 C31A -C30 -C31B 1.555 1.555 1.555 35.20 Deg.
 PLAT860_ALERT_3_G Note: Number of Least-Squares Restraints 387

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 3 ALERT type 3 Indicator that the structure quality may be low
 3 ALERT type 4 Improvement, methodology, query or suggestion
 1 ALERT type 5 Informative message, check

Datablock: complex4

Bond precision: C-C = 0.0097 A Wavelength=0.69110
 Cell: a=12.6116(13) b=14.5499(15) c=16.8485(17)
 alpha=90 beta=90 gamma=90
 Temperature: 120 K

	Calculated	Reported
Volume	3091.7(5)	3091.7(5)
Space group	P 21 21 21	P212121
Hall group	P 2ac 2ab	P 2ac 2ab
Moiety formula	C31 H40 Br2 N4 Ni	C31 H40 Br2 N4 Ni
Sum formula	C31 H40 Br2 N4 Ni	C31 H40 Br2 N4 Ni
Mr	687.16	687.20

Dx, g cm ⁻³	1.476	1.476
Z	4	4
Mu (mm ⁻¹)	3.013	3.238
F000	1408.0	1408.0
F000'	1408.15	
h, k, lmax	13, 15, 18	13, 15, 18
Nref	2430 [4279]	4280
Tmin, Tmax		0.782, 0.968
Tmin'	0.487	
Correction method= MULTI-SCAN		
Data completeness= 1.76/1.00		Theta(max)= 22.310
R(reflections)= 0.0401(3839)		wR2(reflections)= 0.1016(4280)
s = 1.070	Npar= 351	

The following ALERTS were generated. Each ALERT has the format

test-name_ALERT_alert-type_alert-level.

Click on the hyperlinks for more details of the test.

Alert level A

THETM01_ALERT_3_A The value of sine(theta_max)/wavelength is less than 0.550
Calculated sin(theta_max)/wavelength = 0.5493

Alert level C

PLAT220_ALERT_2_C Large Non-Solvent C Ueq(max)/Ueq(min) ... 3.3 Ratio
PLAT341_ALERT_3_C Low Bond Precision on C-C Bonds 0.0097 Ang

Alert level G

REFLT03_ALERT_4_G Please check that the estimate of the number of Friedel pairs is correct. If it is not, please give the correct count in the _publ_section_exptl_refinement section of the submitted CIF.

From the CIF: _diffrn_reflns_theta_max 22.31

From the CIF: _reflns_number_total 4280

Count of symmetry unique reflns 2430

Completeness (_total/calc) 176.13%

TEST3: Check Friedels for noncentro structure

Estimate of Friedel pairs measured 1850

Fraction of Friedel pairs measured 0.761

Are heavy atom types Z>Si present yes

PLAT005_ALERT_5_G No _iucr_refine_instructions_details in CIF ?

PLAT984_ALERT_1_G The Br-f' = -0.290 Deviates from the B&C-Value -0.195

PLAT984_ALERT_1_G The Ni-f' = 0.339 Deviates from the B&C-Value 0.343

PLAT985_ALERT_1_G The Br-f'' = 2.460 Deviates from the B&C-Value 2.358

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1 ALERT type 5 Informative message, check

Datablock: complex5

Bond precision: C-C = 0.0033 A Wavelength=0.71073
Cell: a=10.4866(3) b=17.4528(4) c=19.3943(6)
alpha=90 beta=104.482(1) gamma=90

Temperature: 120 K

	Calculated	Reported
Volume	3436.77(17)	3436.77(16)
Space group	P 21/n	P21/n
Hall group	-P 2yn	-P 2yn
Moiety formula	C33 H40 N4 Ni O2, C4 H8 O	C33 H40 N4 Ni O2, C4 H8 O
Sum formula	C37 H48 N4 Ni O3	C37 H48 N4 Ni O3
Mr	655.48	655.50
Dx, g cm ⁻³	1.267	1.267
Z	4	4
Mu (mm ⁻¹)	0.605	0.605
F000	1400.0	1400.0

```

F000'          1401.81
h,k,lmax      13,22,25          13,22,25
Nref          7913              7853
Tmin,Tmax     0.930,0.953      0.849,0.953
Tmin'         0.844
Correction method= MULTI-SCAN
Data completeness= 0.992          Theta(max)= 27.510
R(reflections)= 0.0482( 5640)      wR2(reflections)= 0.1070( 7853)
S = 1.037          Npar= 414

```

The following ALERTS were generated. Each ALERT has the format

test-name_ALERT_alert-type_alert-level.

Click on the hyperlinks for more details of the test.

Alert level G

```

PLAT005_ALERT_5_G No _iucr_refine_instructions_details in CIF .... ?
PLAT128_ALERT_4_G Alternate Setting of Space-group P21/c ..... P21/n
PLAT232_ALERT_2_G Hirshfeld Test Diff (M-X) Ni1 -- C32 .. 8.0 su
PLAT232_ALERT_2_G Hirshfeld Test Diff (M-X) Ni1 -- C33 .. 6.8 su

```

0 **ALERT level A** = Most likely a serious problem - resolve or explain
0 **ALERT level B** = A potentially serious problem, consider carefully
0 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
4 **ALERT level G** = General information/check it is not something unexpected

0 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
2 ALERT type 2 Indicator that the structure model may be wrong or deficient
0 ALERT type 3 Indicator that the structure quality may be low
1 ALERT type 4 Improvement, methodology, query or suggestion
1 ALERT type 5 Informative message, check

It is advisable to attempt to resolve as many as possible of the alerts in all categories. Often the minor alerts point to easily fixed oversights, errors and omissions in your CIF or refinement strategy, so attention to these fine details can be worthwhile. In order to resolve some of the more serious problems it may be necessary to carry out additional measurements or structure refinements. However, the purpose of your study may justify the reported deviations and the more serious of these should normally be commented upon in the discussion or experimental section of a paper or in the "special_details" fields of the CIF. checkCIF was carefully designed to identify outliers and unusual parameters, but every test has its limitations and alerts that are not important in a particular case may appear. Conversely, the absence of alerts does not guarantee there are no aspects of the results needing attention. It is up to the individual to critically assess their own results and, if necessary, seek expert advice.

Publication of your CIF in IUCr journals

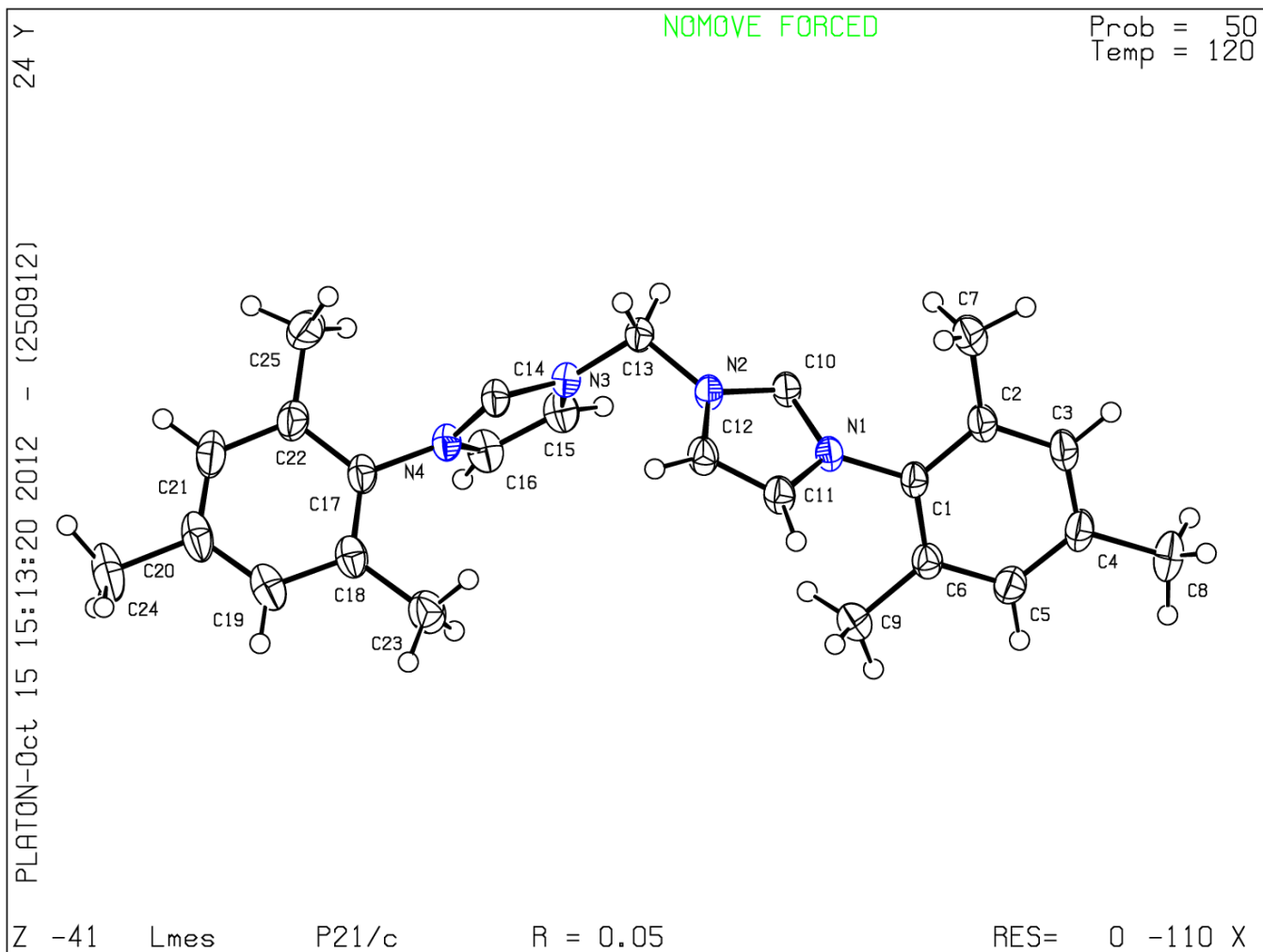
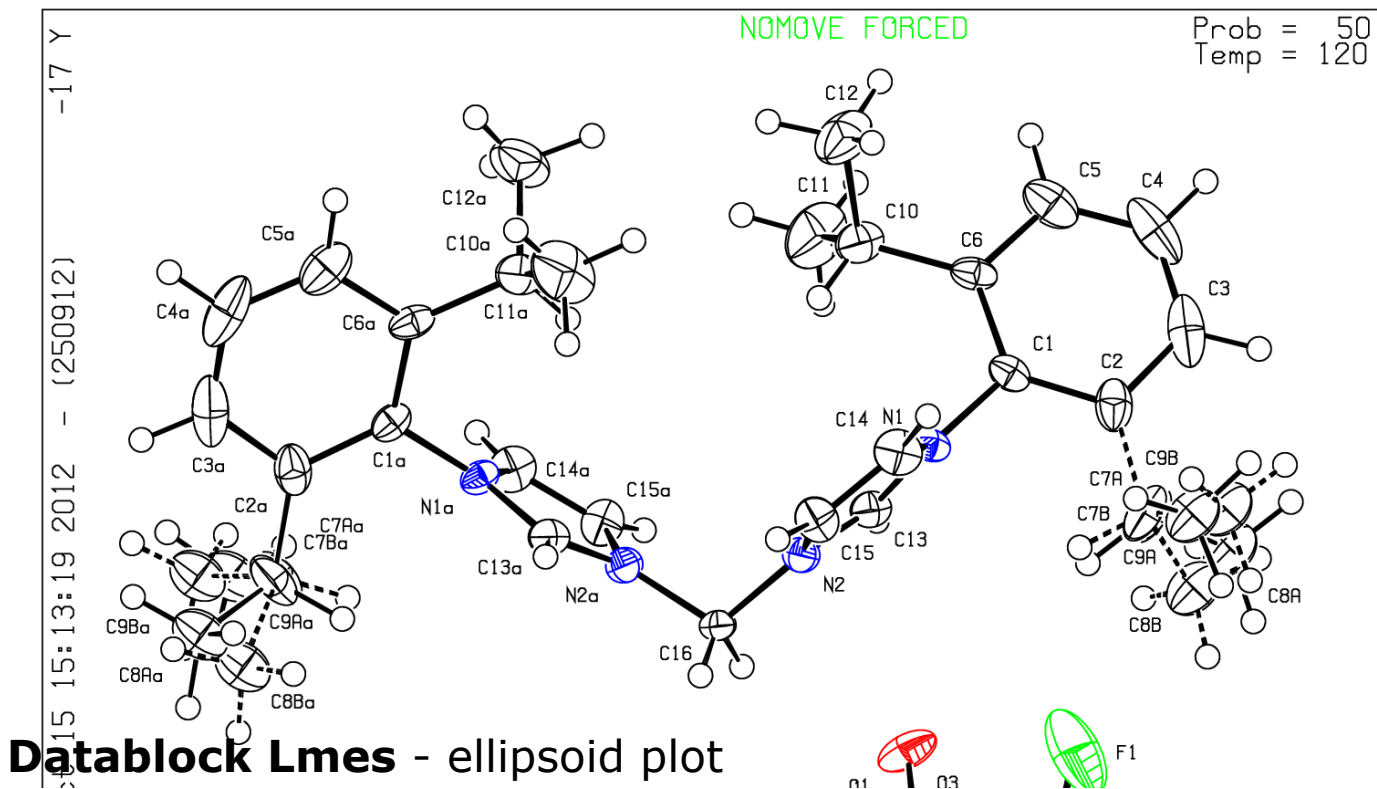
A basic structural check has been run on your CIF. These basic checks will be run on all CIFs submitted for publication in IUCr journals (*Acta Crystallographica*, *Journal of Applied Crystallography*, *Journal of Synchrotron Radiation*); however, if you intend to submit to *Acta Crystallographica Section C* or *E*, you should make sure that [full publication checks](#) are run on the final version of your CIF prior to submission.

Publication of your CIF in other journals

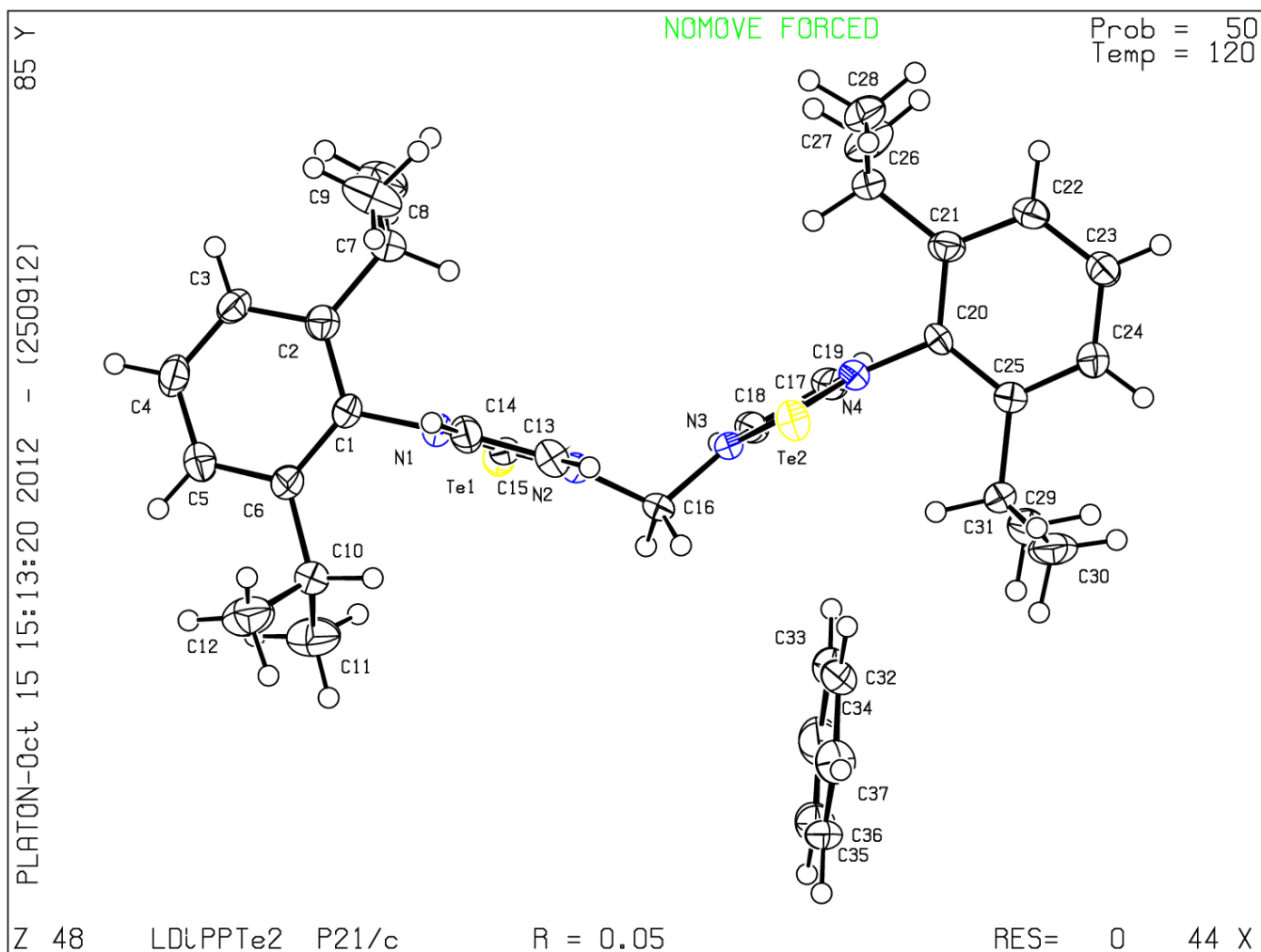
Please refer to the *Notes for Authors* of the relevant journal for any special instructions relating to CIF submission.

PLATON version of 25/09/2012; check.def file version of 20/09/2012

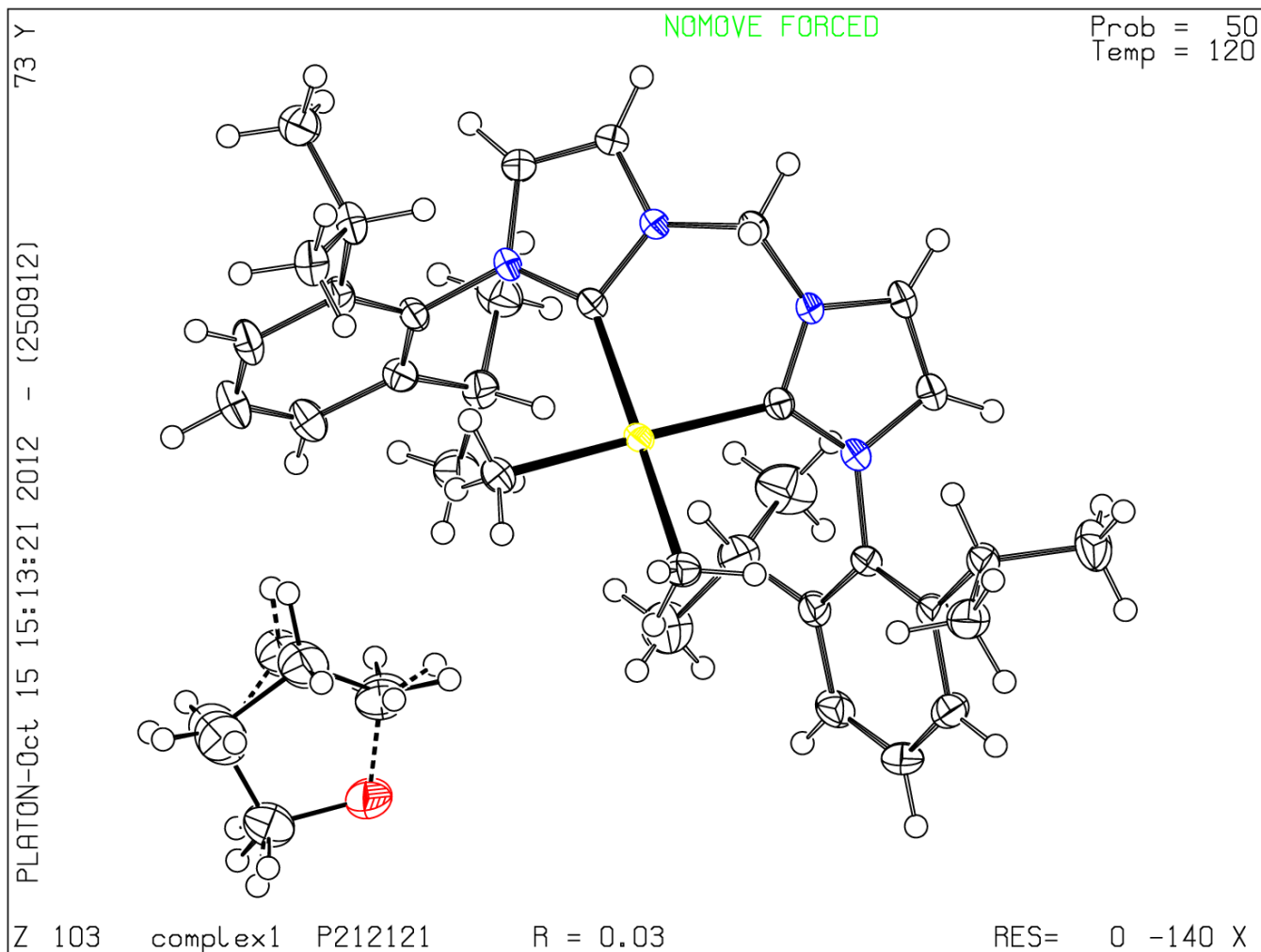
Datablock LDiPPH2OTf2 - ellipsoid plot



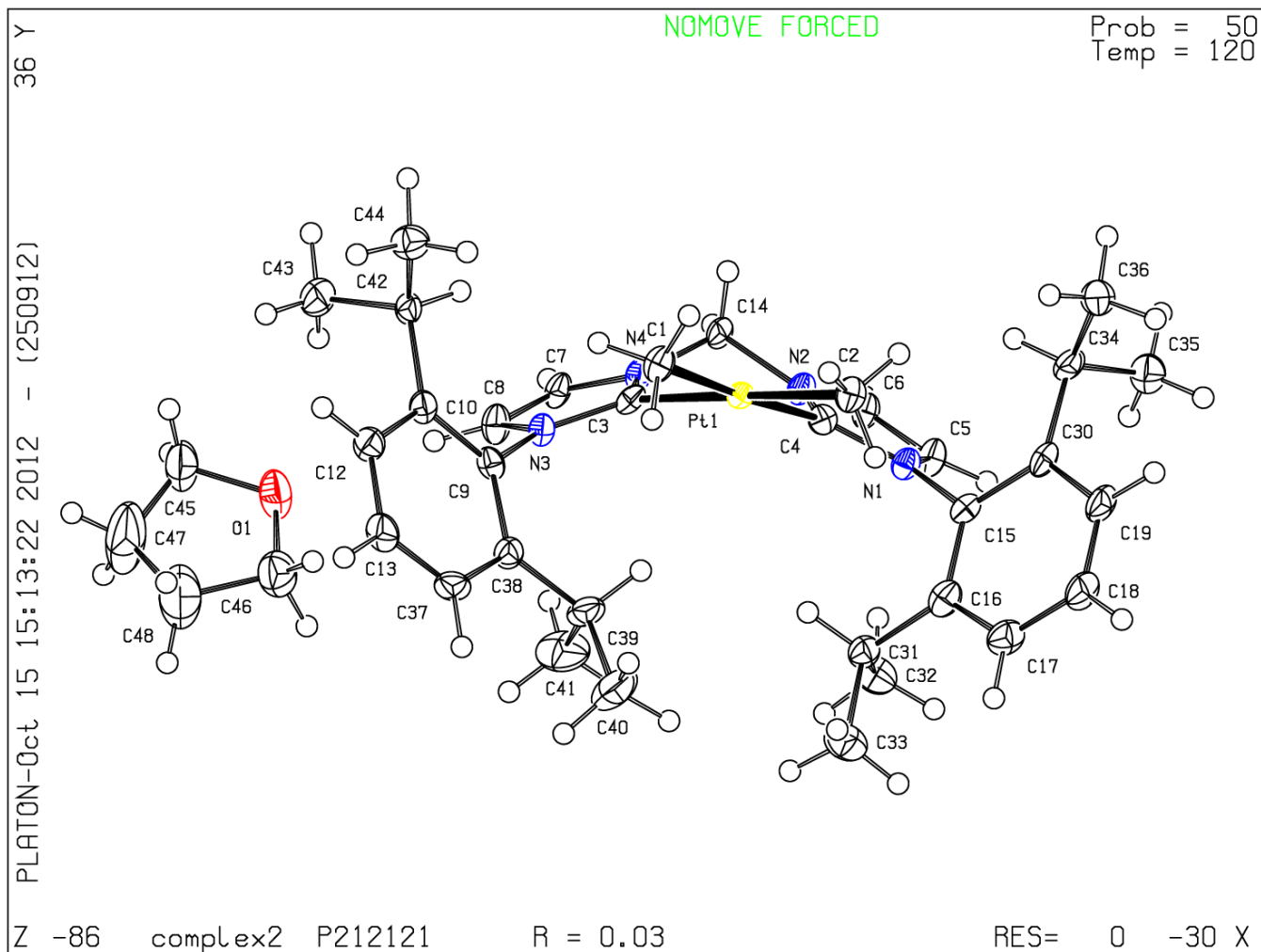
Datablock LDiPPTe2 - ellipsoid plot



Datablock complex1 - ellipsoid plot



Datablock complex2 - ellipsoid plot



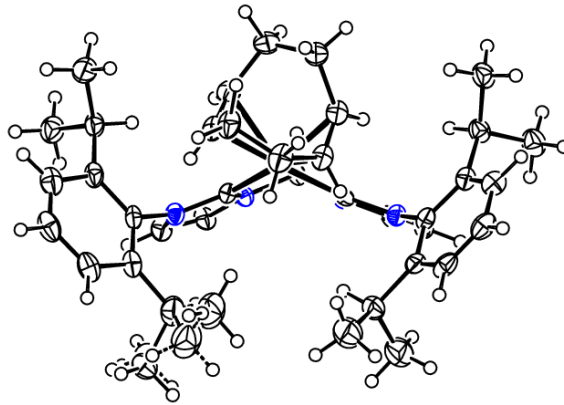
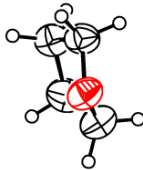
Datablock complex3 - ellipsoid plot

NOMOVE FORCED

Prob = 50
Temp = 153

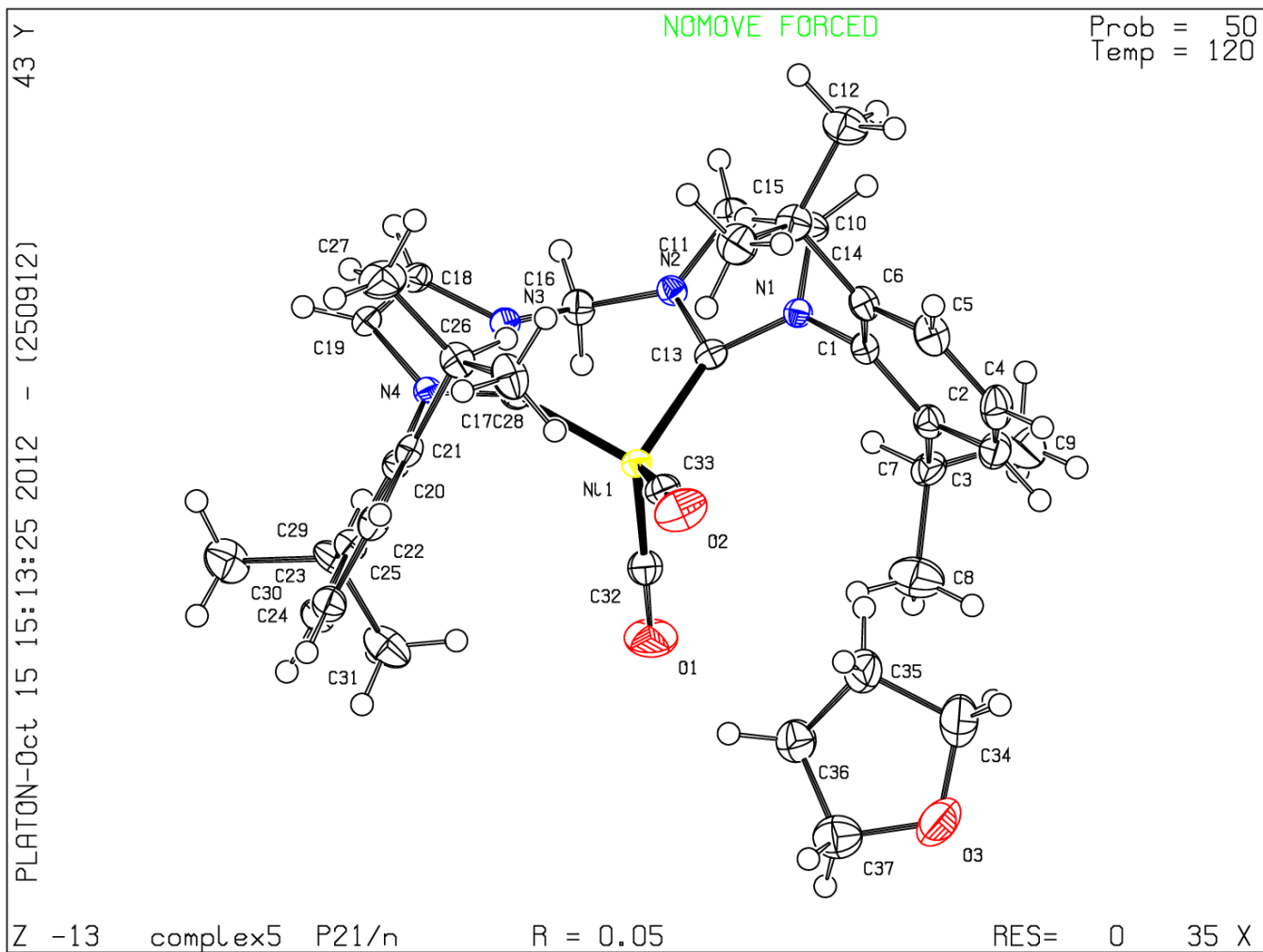
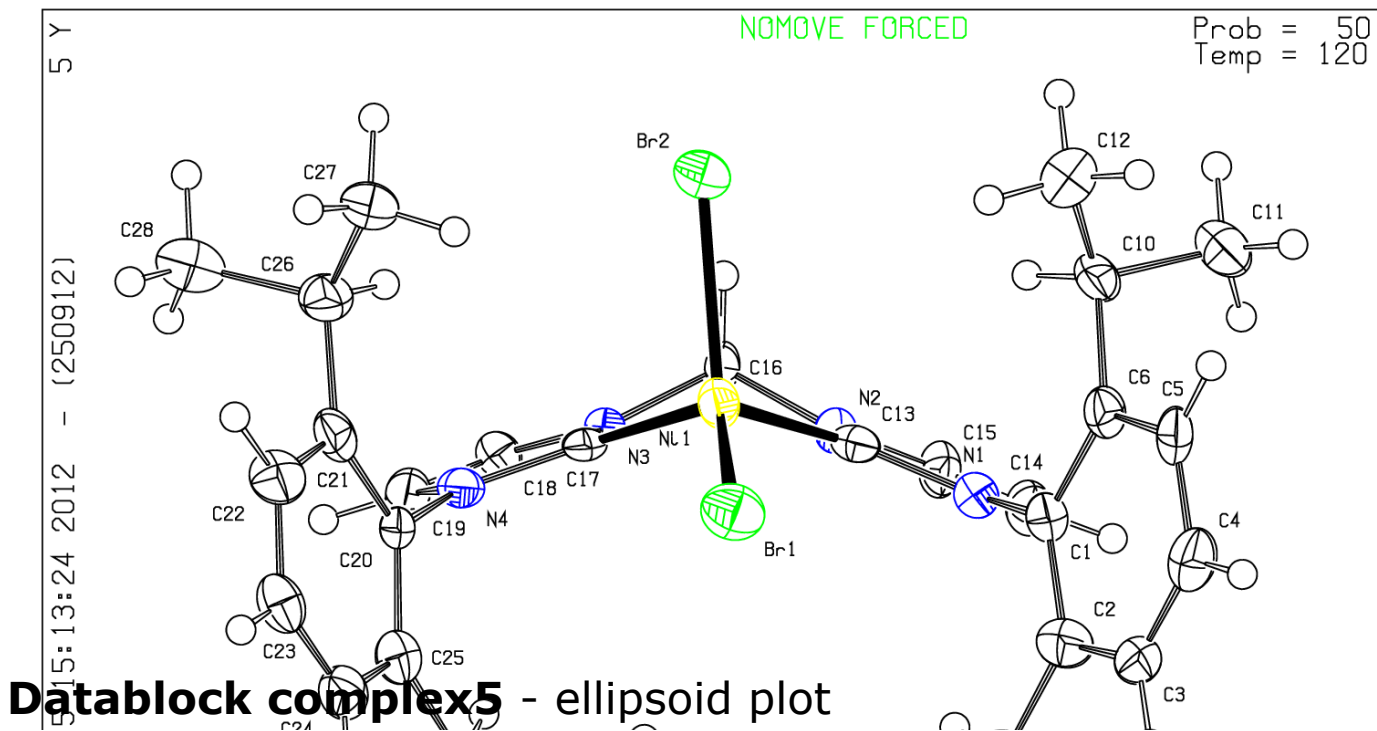
57 Y

PLATON-Oct 15 15:13:23 2012 (250912)



Datablock complex4 - ellipsoid plot

RES= 0 68 X



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