Table A6.1.2.2. List of data-validation tests applied by PLATON

## Table A6.1.2.2. (cont.)

Test name	name Type Purpose				pe Purpose
PLAT001	1	Check for '_shelx_res_file' refinement instruction file	PLAT061	4	RR' test
PLAT002	2	Report number of atom sites with distance/angle restraints	PLAT062		Rescale $T_{\min}$ and $T_{\max}$
PLAT003	2	Report number of non-H atoms with $U_{iso}$ or $U_{ij}$ restraints	PLAT063	4	Test for crystal size
PLAT004	5	Report dimensionality of polymer	PLAT064	1	Test for $T_{\text{max}} \ge T_{\text{min}}$
PLAT005	5	Check for refinement instruction file	PLAT065	3	Test for applicability of (semi-)empirical absorption correction
PLAT006	5	Check for extinction parameter refinement			[0, 1]
PLAT007	5	Report on unrefined $D$ —H atoms	PLAT066	1	Test whether predicted and reported transmission ranges are iden-
PLAT008	5	Check for refinement reflections details			tical
PLAT009	1	Check for potential radiation type and standard wavelength con-	PLAT067	1	Ensure that minimum dimension < maximum dimension
		flict	PLAT068	1	Test for $F(000)$ calc/reported difference
PLAT010	1	Test for reflection data for validation and archival	PLAT069	1	Test for label without numerical part
PLAT011	1	Test for any ATOMS found in CIF	PLAT070	1	Test for duplicate labels
PLAT012	1	Check for valid _shelx_res_checksum	PLAT071	1	Test for uninterpretable labels
PLAT013	1	Check for _shelx_\$hkl\$_checksum	PLAT072	2	Test for extreme first weighting parameter value (SHELXL)
PLAT014	1	Check for _shelxl_fab_checksum	PLAT073	1	Test for inconsistency 'constr' versus 'H atoms refined'
PLAT015	5	Check for refinement reflections details (SHELXL20xy)	PLAT074	1	Test for occupancy $= 0.0$
PLAT016	5	Check for refinement FAB file (SHELXL20xy)	PLAT075	1	Test for occupancy $> 1.0$
PLAT017	1	Check the consistency of Scattering type	PLAT076	1	Test for occupancy $< 1.0$ for atom on special position
PLAT018	1	Check _diffrn_measured_fraction_theta_max and *_full	PLAT077	4	Test for non-integral number of atoms in unit cell
		equality	PLAT078	1	Test for inconsistency 'geom' versus 'no H atoms'
PLAT019	1	Check _diffrn_measured_fraction_theta_max/full con-	PLAT079	1	Test for inconsistency 'mixed' versus 'no H atoms'
		sistency	PLAT080	2	Test maximum shift/error
PLAT020	3	Check for unusually high R <sub>int</sub> value	PLAT081	1	Test for maximum shift/error given
PLAT021	4	Check expected number of reflections (max = $1$ centro, $2$ non-	PLAT082	2	Test for reasonable R1
		centro)	PLAT083	2	Test for extreme second weighting parameter value (SHELXL)
PLAT022	3	Check expected number of reflections (completeness)	PLAT084	3	Test for reasonable wR2
PLAT023	3	Check $\theta_{\text{max}}$	PLAT085	2	Test for default SHELXL weighting scheme
PLAT024	4	Check for required Friedel pair averaging Z≤Si (obsolete	PLAT086	2	Test for reasonable S (too low)
		1/1/2011)	PLAT087	2	Test for reasonable S (too high)
PLAT025	1	Check for $h_{\min} \dots l_{\max}$		3	Test for reasonable data / parameter ratio (centro)
PLAT026	3	Check for a weak data set	PLAT089	3	Test for reasonable data / parameter ratio (non-centro) ( $Z_{max} < 18$ )
PLAT027	3	Check _diffrn_reflns_theta_full	PLAT090		Test for reasonable data / parameter ratio (non-centro) ( $Z_{max} > 18$ )
PLAT028	3	Check the reported _diffrn_measured_fraction_theta_max	PLAT091	1	Test for 'No wavelength given'
PLAT029	3	Check the reported _diffrn_measured_fraction_theta_full	PLAT092	4	Test for wavelength type [Cu, Ga, Mo, Ag, In Ka]
PLAT030	1	Check _diffrn_reflns_number \geq reflns_number_total		1	Test for inconsistency 'mixed' versus 'no refined H positions'
PLAT031	4	Check need for extinction correction parameter	PLAT094	2	Test for maximum/minimum residual density ratio
PLAT032	4	Check s.u. Flack parameter		1	Test for residual density maximum given [0, 1]
PLAT033	4	Check Flack parameter value	PLAT096		Test for residual density minimum given [0, 1]
PLAT034	1	Check for Flack parameter value specified Z>Si, non-centro		2	Test for maximum residual density (reported)
PLAT035	1	Check for _chemical_absolute_configuration	PLAT098	2	Test for minimum residual density (reported)
PLAT036	1	Check for missing Flack parameter s.u.		1	Test for minimum residual density greater zero [0, 1]
PLAT037	1	Check _diffrn_reflns_theta_full	PLAT100	5	Report non-integer reported Z value in CIF
PLAT038	1	Check _diffrn_measured_fraction_theta_max	PLAT101	2	Test for insufficient digits for special position $\frac{1}{3}$ and $\frac{2}{3}$ in x coor
PLAT039	1	Check _diffrn_measured_fraction_theta_full	DI 455103	•	dinate
PLAT040	1	Test for H atoms [0, 1]	PLAT102	2	Test for insufficient digits for special position $\frac{1}{3}$ and $\frac{2}{3}$ in y coor
PLAT041	1	Test sum formula	DI 455102	•	dinate
PLAT042	1	Test moiety formula	PLAT103	2	Test for insufficient digits for special position $\frac{1}{3}$ and $\frac{2}{3}$ in z coordi-
PLAT043	1	Test for molecular weight	DI 457104		nate
PLAT044	1	Check reported against calculated density	PLAT104	1	Test for additional translational symmetry [0, 1]
PLAT045	1	Check reported and calculated $Z$ Check reported density with calculated density from $Z * MW$		1	Test for inconsistent reported wavelengths in CIF and .res file
PLAT046	1		PLAT107		Test validity of inversion twinning operation
PLAT047	1	Test sum formula given	PLAT108	2	Test validity of the twinning operation
PLAT048	1	Test moiety formula given	PLAT109		Test the twinning operation as alternate inversion twinning
PLAT049	1	Check calculated density > 1.0	PLAT110		Test for additional translational symmetry [0, 1]
PLAT050	1	Test for $\mu$ given [0, 1]		2	Test for additional centre of symmetry [0, 100]
	1	Test for difference $\mu(\text{cif})$ with $\mu(\text{calc})$ [%]	PLAT112		Test for additional symmetry [0, 1]
PLAT052	1	Test for specification absorption correction method [0, 1]	PLAT113	2	Report new space-group suggested by <i>ADDSYM</i>
PLAT053	1	Test for specification crystal dimension min [0, 1]	PLAT114	2	Report on ADDSYM problem
PLAT054	1	Test for specification crystal dimension mid [0, 1]	PLAT115		Test for non-crystallographic centre of symmetry [0, 100]
PLAT055	1	Test for specification crystal dimension max [0, 1]		2	Report implemented (pseudo) lattice translation
PLAT056	1	Test for specification crystal radius [0, 1]	PLAT119	1	Report problem with symmetry operator syntax
		Test for correction for absorption needed	PLAT120	1	Test for consistent _symmetry_space_group_name_H-M and
PLAT057			1 12 11 120		
	3 1 1	Test for specification $T_{\text{max}}$ [0, 1] Test for specification $T_{\text{min}}$ [0, 1]	12/11/120		symmetry operations

Test name	Тур	pe Purpose	Test name	pe Purpose	
PLAT121	1	Test for valid _symmetry_space_group_name_H-M	PLAT183	1	Check for _cell_measured_reflns_used value reported
PLAT122	1	Test for ? _symmetry_space_group_name_H-M	PLAT184	1	Check for _cell_measured_theta_min value reported
PLAT123	1	Test for interpretable space group symmetry		1	Check for _cell_measured_theta_max value reported
PLAT124	1	Test for _symmetry_equiv_pos_as_xyz present		4	Check for ISOR record(s) in CIF-embedded shelxl.res file
PLAT125	4	Test for ? _symmetry_space_group_name_Hall	PLAT187	4	Check for RIGU record(s) in CIF-embedded shelxl.res file
LAT126	1	Test for _symmetry_space_group_name_Hall error	PLAT188	3	Test SIMU restraint value in CIF-embedded .res file
PLAT127	1	Test for _symmetry_space_group_name_Hall consistency	PLAT189	3	Test SAME restraint value in CIF-embedded .res file
PLAT128	4	Test for non-standard space_group settings	PLAT190	3	Test RIGU restraint value in CIF-embedded .res file
PLAT129	4	Test for unusual non-standard space-group name	PLAT191		Test SADI restraint value in CIF-embedded .res file
	1	Test for cubic: $a = b = c$		3	Test DELU restraint value in CIF-embedded .res file
PLAT131	1	Test for cubic: $\alpha = \beta = \gamma = 90$		1	Test for consistency of cell and diffraction temperatures
	1	Test for trigonal/hexagonal: $a = b$	PLAT194	3	Report on non-default DEFS restraint values in CIF-embedded
PLAT133 PLAT134	1	Test for trigonal/hexagonal : $\alpha = \beta = 90$ Test for trigonal/hexagonal : $\gamma = 120$	PLAT195	3	file Test DFIX restraint value in CIF-embedded .res file
	1	Test for tetragonal: $a = b$		1	Test for measurement temperature $\neq$ 293 K and no TEMP reco
PLAT136	1	Test for tetragonal: $\alpha = \beta = \gamma = 90$		1	Test for measurement temperature $\neq 233$ K and no TEMP Teco Test for specification of unit-cell measurement temperature
LAT137	1	Test for orthorhombic: $\alpha = \beta = \gamma = 90$	PLAT198	1	Test for specification of data collection temperature
PLAT138	1	Test for monoclinic more than one angle off 90 degrees		1	Test for SHELXL room-temperature default (cell)
PLAT139	1	Test for rhombohedral $a = b = c$	PLAT200	1	Test for <i>SHELXL</i> room-temperature default (datacollection)
PLAT140	1	Test for rhombohedral $\alpha = \beta = \gamma$		2	Test for isotropic non-H atoms in main residue(s)
LAT141	4	S.u.on $a$ – axis small or missing	PLAT202		Test for isotropic non-H atoms in anion? or solvent?
PLAT142	4	S.u.on $b$ – axis small or missing		2	Test for negative non-hydrogen U(iso)
PLAT143	4	S.u.on $c$ – axis small or missing		3	Test for all-isotropic a.d.p.(s)
PLAT144	4	S.u.on $\alpha$ small or missing	PLAT211		Test for NPD a.d.p.'s (1.0) in main residue(s)
PLAT145	4	S.u.on $\beta$ small or missing		2	Test for NPD a.d.p.'s in anion? and solvent ? [0, 1]
PLAT146	4	S.u.on $\gamma$ small or missing	PLAT213		Test ratio a.d.p. max/min in main residue(s)
PLAT147	1	S.u. on symmetry restricted cell angle	PLAT214		Test ratio a.d.p. max/min in anion? or solvent?
LAT148	3	S.u.on $a, b$ or $c$ – axis too large		3	Test for unusual disordered atom a.d.p. in main residue
PLAT149	3	S.u.on $\alpha$ , $\beta$ or $\gamma$ too large	PLAT216	3	Test for unusual disordered atom a.d.p. in minor residue
PLAT150	1	Check reported unit-cell volume value	PLAT217	1	Test for incomplete $U_{ij}$ data
PLAT151	1	Check for s.u. on volume	PLAT218	3	Test for constrained $U_{ij}$ 's
PLAT152	1	Check for consistency of s.u. on volume and cell parameters	PLAT220	2	Test $U_{eq}(max)/U_{eq}(min)$ range for non-H atoms in non-solvent
PLAT153	1	Test for equal axial s.u.'s	PLAT221	2	Test $U_{eq}(max)/U_{eq}(min)$ range for non-H atoms in solvent
PLAT154	1	Test for equal cell angle s.u.'s	PLAT222	3	Test $U_{iso}(max)/U_{iso}(min)$ range for H atoms in non-solvent
PLAT155	4	Check for reduced cell aP	PLAT223	4	Test $U_{eq}(max)/U_{eq}(min)$ range for H atoms in solvent
PLAT156	4	Check for non-standard axial order	PLAT224	1	Test for difference in implicit and explicit $U_{eq}$
PLAT157	4	Check for non-standard monoclinic $\beta$ angle $< 90$ degrees	PLAT230	2	Hirshfeld rigid-bond test [Acta Cryst. (1976), A32, 239–244]
PLAT158	4	Check for standard reduced cell		4	Hirshfeld rigid-bond test [Acta Cryst. (1976), A32, 239–244]
PLAT159	1	Check $\beta$ angle value for monoclinic $c$	PLAT232	2	Hirshfeld rigid-bond test (metal—X) [Acta Cryst. (1976), A3
PLAT161	4	Missing x coordinate s.u.			239–244]
PLAT162	4	Missing y coordinate s.u.	PLAT233	4	Hirshfeld rigid-bond test (metal—X) [Acta Cryst. (1976), A3
PLAT163	4	Missing z coordinate s.u.			239–244]
PLAT164	4	Check for refined C—H H atoms	PLAT234	4	Hirshfeld rigid-bond test [Acta Cryst. (1976), A32, 239–244]
PLAT165	3	Check for R-flagged non-H atoms	PLAT241	2	Test for unusually high $U_{\text{eq}}$ as compared with bonded neighbou
PLAT166	4	Check for calc flagged atoms with s.u.'s on coordinates	PLAT242		Test for unusually low $U_{eq}$ as compared with bonded neighbour
PLAT167	3	Test DANG restraint value in CIF-embedded .res file	PLAT243	4	Test for unusually high solvent $U_{eq}$ as compared with bond
PLAT168	4	Check for EXYZ record(s) in CIF-embedded shelxl.res file	DI ATO 44	4	neighbours
PLAT169	4	Check for AFIX 1 record(s) in CIF-embedded shelxl.res file	PLAT244	4	Test for unusually low solvent $U_{eq}$ as compared with bond
PLAT170	4	Check for sufficient data in in atom data loop	DI AT245	2	neighbours
PLAT171	4	Check for Ea.d.p. record(s) in CIF-embedded shelxl.res file	PLAT245	2	Test for unusually low H $U_{eq}$ as compared with bonded atom
PLAT172 PLAT173	4	Check for DFIX record(s) in CIF-embedded shelxl.res file Check for DANG record(s) in CIF-embedded shelxl.res file	PLAT250		Test for unusual anisotropic average $U_{ij}$
	4	Check for FLAT record(s) in CIF-embedded shelxl.res file	PLAT260	2	Test for high average $U_{eq}$ for residue Test for fixed partial occupancy
PLAT174 PLAT175	4	Check for SAME record(s) in CIF-embedded shelxl.res file	PLAT300 PLAT301		Test for main residue(s) disorder %
LAT175 LAT176	4	Check for SADI record(s) in CIF-embedded shelxl.res file	PLAT301 PLAT302		Test for (anion/solvent) disorder %  Test for (anion/solvent) disorder %
LAT170 LAT177	4	Check for DELU record(s) in CIF-embedded shelxl.res file	PLAT302 PLAT303		Test for more than one connection to hydrogen atoms
LAT178	4	Check for SIMU record(s) in CIF-embedded shelxl.res file	PLAT303		Test for more than one connection to hydrogen atoms  Test for non-integer number of atoms in residue
LAT178 PLAT179	4	Check for CHIV record(s) in CIF-embedded shelxl.res file		2	Test for isolated hydrogen atoms
LAT179 PLAT180	4	Check rounding of cell axes and angles	PLAT305 PLAT306	2	Test for isolated hydrogen atoms  Test for isolated oxygen atoms
LAT180 LAT181	1	Check for all angles exactly 90 degrees in monoclinic	PLAT300 PLAT307		Test for isolated oxygen atoms  Test for isolated metal atoms
PLAT182	1	Check for at least one s.u. greater than zero in monoclinic	PLAT308	2	Test for isolated metal atoms  Test for single bonded metal atoms
L11102	1	Check for at least one s.u. greater than zero in monochine	PLAT309	2	Test for single bonded oxygen atoms
				2	Test for 'too close' (symmetry-related) full-weight atoms
				_	

PLAT354 3 Test for short O—H (ångström difference) X-ray: 0.82 neutron: 0.983 PLAT355 3 Test for long O—H (ångström difference) X-ray: 0.82 neutron: 0.983 PLAT356 3 Test for long O—H (ångström difference) X-ray: 0.82 neutron: 0.983 PLAT357 3 Test for long B—H distance in X—BH₃ moiety PLAT358 3 Test for long B—H distance in X—BH₃ moiety PLAT359 3 Test for long B—H distance in (X, Y, Z)-B—H moiety PLAT359 3 Test for long B—H distance in (X, Y, Z)-B—H moiety PLAT359 3 Test for long B—H distance in (X, Y, Z)-B—H moiety PLAT360 2 Test for long C4—C4 (ångström difference) X-ray: 1.54 PLAT361 2 Test for long C4—C4 (ángström difference) X-ray: 1.54 PLAT362 2 Test for short C4—C3 (ángström difference) X-ray: 1.54 PLAT363 2 Test for long C4—C4 (ángström difference) X-ray: 1.54 PLAT363 2 Test for long C4—C3 (ángström difference) X-ray: 1.54 PLAT365 2 Test for short C4—C2 (ángström difference) X-ray: 1.54 PLAT365 2 Test for long C4—C4 (ángström difference) X-ray: 1.54 PLAT365 2 Test for long C4—C3 (ángström difference) X-ray: 1.54 PLAT366 2 Test for long C4—C2 (ángström difference) X-ray: 1.54 PLAT367 2 Test for long C4—C3 (ángström difference) X-ray: 1.46 PLAT369 2 Test for long C4—C2 (ángström difference) X-ray: 1.50 PLAT369 2 Test for long C4—C2 (ángström difference) X-ray: 1.50 PLAT369 2 Test for long C3—C3 (ángström difference) X-ray: 1.34 PLAT710 1 Test for label problem for H-bond D—H····A distances in CIF PLAT369 2 Test for long C3—C3 (ángström difference) X-ray: 1.34 PLAT710 1 Test for long C4—C9 (ángström difference) X-ray: 1.34 PLAT711 1 Test for label problem for H-bond D—H····A angles in CIF PLAT369 2 Test for long C3—C2 (ángström difference) X-ray: 1.34 PLAT712 1 Test for consistency of bonds and coordinates in CIF PLAT370 2 Test for long C3—C2 (ángström difference) X-ray: 1.31 PLAT730 2 Test for long C3—C2 (ángström difference) X-ray: 1.35 PLAT371 2 Test for long C3—C2 (ángström difference) X-ray: 1.25 PLAT373 2 Test for long C3—C2 (ángström difference) X-ray: 1.25 PLAT373 2 Test for long C3—C2 (ángström di	Test name	e Type Purpose		Test name Type Purpose		pe Purpose
PATS12   2   Test for mental C—II umple of H <sub>2</sub> O   PATS19   2   Test for single behavior derived active automatic patterns of the strong patterns of the control of the strong patterns of the	PLAT312	2	Test for C=O—H	PLAT395	2	Test general X—O—Y angle value
PLAT316   2   Test for single beaded carbon aroun   PLAT319   2   Test for single beaded carbon aroun   PLAT319   2   Check for too many H von C in C=N boad in solventification   PLAT319   2   Check for too many H von C in C=N boad in solventification   PLAT319   2   PLAT319   PLAT319   2   PLAT319   2   PLAT319   2   PLAT319   2   PLAT319   PLAT319   2   PLAT319   2   PLAT319   PL	PLAT313	2	Test for O with three covalent bonds	PLAT396	2	Test Si—O—Si angle value
P.A.131   2   Check for no many H's on C in CSN board in roadin estimation   P.A.131   2   First for short non-boarding time H - H contacts (movining M1)   P.A.131   2   P.A.131   P.	PLAT314	2	Test for metal-O—H angle of H <sub>2</sub> O	PLAT397	2	Test B—O—B angle value
P.A.731   2   Check for no many H's on C in C=N load in solvent/fon   P.A.731   2   P.A.731   2   P.A.731   3   P.A.731   2   P.A.731   3   P.A.731   2   P.A.731   3   P.A.731   3   P.A.731   3   P.A.731   3   P.A.731   4   P.A.731   P.A.731   4   P.A.731   P.A.731   4   P.A.731   P.A.731   4   P.A.731   4   P.A.731   4   P.A.731   4   P.A.731   P.A.731   4   P.A.731   P.A.731   4   P.A.731   P.A.731   4   P.A.731   P.A.731   4   P.A.731   P.A.731   4   P.A.731   P.A.731   4   P.A.731   4   P.A.731   4   P.A.731   4   P.A.731			e			
P.A.131   2   Hybridization problem on N in main residue(s)   P.A.141   2   Test for short non-booding inter H - H contacts (involving XH)			· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·
PAT312   2   Fisheritarian problem on N in solventifon   PAT312   2   Fisheritarian problem on C in main residue(s)   PAT312   2   Fisheritarian problem on C in main residue(s)   PAT312   2   Fisheritarian problem on ton-C in main residue(s)   PAT312   2   Fisheritarian problem on ton-C in main residue(s)   PAT312   2   Fisheritarian problem on ton-C in main residue(s)   PAT312   2   Fisheritarian problem on ton-C in main residue(s)   PAT312   2   Fisheritarian problem on ton-C in solventifon   PAT312   2   Fisheritarian problem on ton-C in main residue(s)   PAT312   2   Fisheritarian problem on ton-C in solventifon   PAT313   PAT31			· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·
PLAT32   2   Pshridization problem on C in anian residue(s)   PLAT4   2   Test for short noe-bonding inton D—HH.—X contacts						
PLA1512   15   hybridization problem on the most mistance   PLA1513   2   Test for short non-hounding inter \$D - H - H - H - Contacts			*			
PLAT312   2						•
PLAT312   2   Hybridization problem on non-Cin solventifon   PLAT317   2   Test for duot non-bonding inter D—H. ~H.—H.—Counters   PLAT32   Check for possibly missing H on coordinating X—N—X in solventifonion   PLAT32   Check for possibly missing H on potentially sp <sup>2</sup> carbon   PLAT32   Check for possibly missing H on potentially sp <sup>2</sup> carbon   PLAT32   Check for possibly missing H on potentially sp <sup>2</sup> carbon   PLAT32   Check for possibly missing H on potentially sp <sup>2</sup> probabons   PLAT32   Check for possibly missing H on potentially sp <sup>2</sup> probabons   PLAT33   Check for possibly missing H on potentially sp <sup>2</sup> probabons   PLAT33   Check for a possibly missing H on potentially sp <sup>2</sup> probabons   PLAT33   Check for a possibly missing H on potentially sp <sup>2</sup> probabons   PLAT33   Check for a possibly missing H on potentially sp <sup>2</sup> probabons   PLAT33   Check for a possibly missing H on potentially sp <sup>2</sup> probabons   PLAT33   Check for a possibly missing H on potentially sp <sup>2</sup> probabons   PLAT33   Check for a possibly missing H on potentially sp <sup>2</sup> probabons   PLAT33   Check for a possibly missing H on potentially sp <sup>2</sup> probabons   PLAT33   Check for a possibly missing H on potentially sp <sup>2</sup> probabons   PLAT33   Check for a possibly missing H on potentially sp <sup>2</sup> probabons   PLAT33   Check for a possibly missing H on potentially sp <sup>2</sup> probabons   PLAT33   Check for a possibly missing H on potentially sp <sup>2</sup> probabons   PLAT33   Check for a possibly missing H on potentially sp <sup>2</sup> probabons   PLAT33   Check for a possibly missing H on potentially sp <sup>2</sup> probabons   PLAT33   Check for a possibly missing H on potentially sp <sup>2</sup> probabons   PLAT33   Check for a possibly missing H on potentially sp <sup>2</sup> probabons   PLAT34   Check for a possibly missing H on potentially sp <sup>2</sup> probabons   PLAT34   Check for a possibly missing H on potentially sp <sup>2</sup> probabons   PLAT35   Check for a possibly missing H on potentially sp <sup>2</sup> probabons   PLAT35   Check for a possibly missing H on potentially sp <sup>2</sup> probabons   PLAT35   Check for a possibly						· · · · · · · · · · · · · · · · · · ·
PLAT320   2   Check for possibly missing H on coordinating X—X in solveridation   PLAT33   2   Test for short non-bonding inter H A contact [HL. = halogen)   PLAT33   2   Check for possibly missing H on potentially sp <sup>2</sup> carbon   PLAT33   2   Test for short non-bonding inter H A contact [HL. = halogen)   PLAT33   2   Check for possibly missing H on potentially sp <sup>2</sup> carbon   PLAT33   2   Test for short non-bonding inter HL A contact [HL. = halogen)   PLAT33   2   Check for possibly missing H on potentially sp <sup>2</sup> carbon   PLAT33   4   Test for short non-bonding minor. minor inter X P contacts   PLAT33   4   Check for under carbon and phythaliation   PLAT33   4   Test for short non-bonding minor. minor inter X P contacts   PLAT33   2   Check for group   PLAT33   4   Test for short non-bonding minor. minor inter X P contacts   PLAT33   2   Check for group   PLAT33   4   Test for short non-bonding minor. minor inter X P contacts   PLAT33   2   Check for group   PLAT33   4   Test for short non-bonding minor. minor inter X P contacts   PLAT33   2   Check for group   PLAT33   4   Test for short non-bonding minor. minor inter X P contacts   PLAT33   2   Check placy   C - C   runge   PLAT33   4   Test for short non-bonding minor. minor inter X P contacts   PLAT33   2   Check placy   C - C   runge   PLAT33   4   Test for so large   PLAT33   Test for so large   PLAT33   Test for so large   PLAT33   Test for so large   PLAT34   Test for so large						· ·
PLAT325   Check for possibly missing H on coordinating X—N—X in solventfanion			•			· ·
PLAT32   2   Check for possibly missing H on coordinating x—N—X in solemularions   PLAT32   2   Check for possibly missing H on potentially sp <sup>1</sup> carbon   PLAT33   2   Check for possibly missing H on potentially sp <sup>2</sup> carbon   PLAT33   4   Check for possibly missing H on potentially sp <sup>2</sup> carbon   PLAT33   4   Check for a possibly missing H on potentially sp <sup>2</sup> phosphorus   PLAT33   4   Check for a possibly missing H on potentially sp <sup>2</sup> phosphorus   PLAT33   2   Check for a possibly missing H on potentially sp <sup>2</sup> phosphorus   PLAT33   2   Check average phenyl C—C   PLAT33   2   Check average phenyl C—C   PLAT34   2   P	12,11321	-				
PLAT326 2 Check for possibly missing H on potentially $sp^0$ carbon PLAT327 2 Check for possibly missing H on potentially $sp^0$ carbon PLAT328 2 Check for possibly missing H on potentially $sp^0$ carbon PLAT328 2 Check for possibly missing H on potentially $sp^0$ carbon PLAT328 2 Check for unclear carbon atom hybridization PLAT328 2 Check average phenyl C—C PLAT331 2 Check average in multiple substituted benzene type C—C PLAT331 2 Check average in multiple substituted benzene type C—C PLAT331 2 Check average in multiple substituted benzene type C—C PLAT331 2 Check average in multiple substituted benzene type C—C PLAT331 2 Check average in multiple substituted benzene type C—C PLAT331 2 Check average in multiple substituted benzene type C—C PLAT331 2 Check average in multiple substituted benzene type C—C PLAT331 2 Check average in multiple substituted benzene type C—C PLAT331 2 Check average in multiple substituted benzene type C—C PLAT331 2 Check average in multiple substituted benzene type C—C PLAT331 2 Check average in multiple substituted benzene type C—C PLAT331 2 Check average in multiple substituted benzene type C—C PLAT331 3 Check average in multiple substituted benzene type C—C PLAT331 3 Check average in multiple substituted benzene type C—C PLAT331 3 Check average in multiple substituted benzene type C—C PLAT331 3 Check average in multiple substituted benzene type C—C PLAT331 3 Check average in multiple substituted benzene type C—C PLAT331 3 Check average in multiple substituted benzene type C—C PLAT331 3 Check average in multiple substituted benzene type C—C PLAT331 3 Check average in multiple substituted benzene type C—C PLAT331 3 Check average in multiple substituted benzene type C—C PLAT331 3 Check average in multiple substituted benzene type C—C PLAT331 3 Check average in multiple substituted benzene type C—C PLAT331 3 Check average in multiple substituted benzene type C—C PLAT331 3 Check ave	PLAT325	2				
PLAT325   2   Check for possibly missing H on potentially 3p <sup>2</sup> carbon   PLAT328   4   Check for a possibly missing H on potentially 3p <sup>2</sup> carbon   PLAT328   4   Check for a possibly missing H on potentially sop <sup>2</sup> hosphorus   PLAT330   2   Check proact are around an unhybridization   PLAT330   2   Check average phenyl C—C   PLAT329   2   Check average phenyl C—C   PLAT329   2   Check average phenyl C—C   PLAT329   2   Check average phenyl C—C   PLAT330   2   Check average in multiple substituted benzen type C—C   PLAT330   2   Check average in multiple substituted benzen type C—C   PLAT340   2   Check average in multiple substituted benzen type C—C   PLAT340   2   Check average in multiple substituted benzen type C—C   PLAT340   2   Check multiple substituted benzen type C—C   PLAT340   2   Test for too large intered accessible voids   PLAT340   3   Check bond precision for C—C in intertures (Pla < P <sub>max</sub> < 40)   PLAT340   3   Check bond precision for C—C in intertures (Pla < P <sub>max</sub> < 40)   PLAT340   3   Check bond precision for C—C in structures (Pla < P <sub>max</sub> < 40)   PLAT340   3   Check bond precision for C—C in structures (Pla < P <sub>max</sub> < 40)   PLAT340   4   Test for too large (murcel for too large multiple substituted benzen type C—C   PLAT340   4   Test for too large (murcel for too l						
PLAT322   2   Check for possibly missing H on potentially sp <sup>2</sup> phosphorus	PLAT326	2	Check for possibly missing H on potentially $sp^3$ carbon	PLAT433	4	
PLAT324   Check for a possibly missing H on potentially sp <sup>3</sup> phosphorus	PLAT327	2		PLAT434	2	
PLAT39   2   Check average phenyl C—C	PLAT328	4				
PLAT331   2   Check average phenyl C—C mange   PLAT332   2   Check average in multiple substituted benzene type C—C   PLAT343   2   Check average in multiple substituted benzene type C—C   PLAT353   2   Check average in multiple substituted benzene type C—C   PLAT353   2   Check multiple substituted benzene type C—C   PLAT353   2   Check multiple substituted benzene type C—C   PLAT353   2   Check average torsion angle in cyclohexane ring   PLAT353   2   Check bond precision for C—C in structures (I PLAT354   PLAT354   PLAT354   PLAT354   PLAT354   PLAT355	PLAT329	4		PLAT480	4	Test for too large $H \cdot \cdot \cdot A$
PLAT332   2   Check penyl C—C mage   PLAT343   2   Check average in multiple substituted benzene type C—C   PLAT361   2   Check average in multiple substituted benzene type C—C   PLAT361   2   Check multiple substituted benzene type C—C   PLAT362   2   Check multiple substituted benzene type C—C   PLAT363   2   Check multiple substituted benzene type C—C   Tange   PLAT363   2   Check multiple substituted benzene type C—C   Tange   PLAT363   2   Check multiple substituted benzene type C—C   Tange   PLAT363   2   Check multiple substituted benzene type C—C   Tange   PLAT363   2   Check multiple substituted benzene type C—C   Tange   PLAT363   2   Check multiple substituted benzene type C—C   Tange   PLAT363   2   Check multiple substituted benzene type C—C   Tange   PLAT363   2   Check multiple substituted benzene type C—C   Tange   PLAT363   2   Check multiple substituted benzene type C—C   PLAT363   2   Check multiple substituted benzene type C—C   PLAT363   2   Check multiple substituted benzene type C—C   Tange   PLAT364   2   PLAT3	PLAT330	2	Check average phenyl C—C	PLAT481	4	Test for too large $D \cdot \cdot \cdot A$
PLAT331   2   Check average in multiple substituted benzene type C—C   PLAT690   2   Test for town for multiple substituted benzene type C—C   PLAT690   2   Test for town for casesible voids   PLAT353   2   Check multiple substituted benzene type C—C   PLAT690   3   Test for town for permission for C—C in structures (Z <sub>max</sub> < 4)   PLAT690   4   PLAT690   4   Test for town for permission for C—C in structures (Z <sub>max</sub> < 4)   PLAT690   4   PLAT690			•			· ·
PLAT343   2   Check awarege in multiple substituted benzene type C—C range PLAT354   2   Check mulsual bond distance PLAT354   2   Check unusual bond distance PLAT354   2   Check unusual bond distance PLAT354   3   Check bond precision for C—C in light-atom structures (Z <sub>max</sub> < 40)   PLAT660   4   Fest for too large unicell for VOID search (2   PLAT660   4   PLA						
PLAT355   2   Check mustiple substituted bearene type C—C range   PLAT603   4   Test for too large unit cell for VOID search   PLAT358   4   Check average torsion angle in cyclobexane ring   PLAT606   4   Test for for too large (reported) solvent accessible voids   PLAT360   4   Test for too large (reported) solvent accessible voids   PLAT360   4   Test for too large (reported) solvent accessible voids   PLAT340   5   Test for too large (reported) solvent accessible voids   PLAT340   5   Test for too large (reported) solvent accessible voids   PLAT340   5   Test for too large (reported) solvent accessible voids   PLAT340   5   Test for too large (reported) solvent accessible voids   PLAT340   5   Test for too many atoms for ADDSYM test as a part of checkeif   PLAT341   5   Test for solvent C—C in structures (Z <sub>max</sub> > 39)   PLAT340   5   Test for solvent C—C in structures (Z <sub>max</sub> > 39)   PLAT340   7   Test for solvent C—H (algostrom difference) X-ray: 0.96 neutron:   PLAT350   Test for solvent C—H (algostrom difference) X-ray: 0.96 neutron:   PLAT351   Test for consistency of bonds and coordinates in CIF   PLAT351   Test for solvent C—H (algostrom difference) X-ray: 0.87 neutron:   PLAT351   Test for consistency of angles and coordinates in CIF   PLAT352   Test for long N—H (algostrom difference) X-ray: 0.82 neutron:   PLAT351   Test for consistency of contact distances and coordinates in CIF   Test for consistency of contact distances and coordinates in CIF   Test for consistency of contact distances and coordinates in CIF   Test for consistency of contact distances and coordinates in CIF   Test for consistency of probable of the North N—H (algostrom difference) X-ray: 0.82 neutron:   PLAT351   Test for consistency of H-bond D—H distances and coordinates in CIF   Test for consistency of contact distances and coordinates in CIF   Test for long CA—C4 (algostrom difference) X-ray: 0.82 neutron:   PLAT351   Test for long CA—C4 (algostrom difference) X-ray: 0.82 neutron:   PLAT351   Test for long CA—C4 (algostrom						
PLAT354 2 Check cursus per torsion angle in cyclohexane ring PLAT340 3 Check bond precision for $C-C$ in light-atom structures ( $Z_{max} < P_{col} > P_{col$						
PLAT354   3   Check bond precision for C—C in light-atom structures (Z <sub>max</sub> < PLAT660   4   Test for too large (reported) solvent accessible voids						
PLAT341   3   Check bond precision for C—C in light-atom structures (Z <sub>max</sub> < 40)   PLAT341   3   Check bond precision for C—C in structures (P <sub>max</sub> < 40)   PLAT343   3   Check bond precision for C—C in structures (P <sub>max</sub> < 40)   PLAT343   3   Check bond precision for C—C in structures (P <sub>max</sub> < 39)   PLAT343   3   Plat343   P						
PLAT541   3   Check bond precision for C—C in structures (19 < Z <sub>max</sub> < 40)   PLAT668   4   Test for too many atoms for ADDSTM test as part of checkeff						
PLAT341   3   Check bond precision for C—C in structures (I)	FLAI 340	3				
PLAT342   3   Check bond precision for C—C in structures (Z <sub>max</sub> > 39)	PLAT341	3				
PLAT343 2 Hybridization problem on C in main residue(s) PLAT345 2 Hybridization problem on C in solvent/fron PLAT350 3 Test for short C—H (ångström difference) X-ray: 0.96 neutron: PLAT351 3 Test for long C—H (ångström difference) X-ray: 0.96 neutron: PLAT351 3 Test for long C—H (ångström difference) X-ray: 0.96 neutron: PLAT351 3 Test for long C—H (ångström difference) X-ray: 0.87 neutron: PLAT352 3 Test for short N—H (ångström difference) X-ray: 0.87 neutron: PLAT353 3 Test for long N—H (ångström difference) X-ray: 0.87 neutron: PLAT353 3 Test for long N—H (ångström difference) X-ray: 0.82 neutron: PLAT353 3 Test for long N—H (ångström difference) X-ray: 0.82 neutron: PLAT353 3 Test for short N—H dingström difference) X-ray: 0.82 neutron: PLAT355 3 Test for short N—H distance in X—BH3 moiety PLAT356 3 Test for short B—H distance in X—BH3 moiety PLAT357 3 Test for long D—H (ångström difference) X-ray: 0.82 neutron: PLAT356 3 Test for short B—H distance in X—BH3 moiety PLAT357 3 Test for long D—H distance in X—BH3 moiety PLAT359 3 Test for long D—H distance in X—BH3 moiety PLAT359 3 Test for long B—H distance in X—BH3 moiety PLAT361 2 Test for long D—H distance in X—BH3 moiety PLAT362 2 Test for short C—G (ångström difference) X-ray: 1.54 PLAT363 2 Test for long C4—C4 (ångström difference) X-ray: 1.54 PLAT364 2 Test for long C4—C3 (ångström difference) X-ray: 1.55 PLAT365 2 Test for long C4—C3 (ångström difference) X-ray: 1.54 PLAT366 2 Test for short C4—C3 (ångström difference) X-ray: 1.55 PLAT366 2 Test for short C4—C3 (ångström difference) X-ray: 1.54 PLAT370 1 Test for label problem for H-bond D—H						
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PLAT355 3 Test for long O—H (ångström difference) X-ray: 0.82 neutron: 0.983  PLAT356 3 Test for short B—H distance in X—BH₃ moiety PLAT357 3 Test for long B—H distance in X—BH₃ moiety PLAT358 3 Test for long B—H distance in (X, Y, Z)-B—H moiety PLAT359 3 Test for long B—H distance in (X, Y, Z)-B—H moiety PLAT360 2 Test for long B—H distance in (X, Y, Z)-B—H moiety PLAT361 2 Test for long C4—C4 (ångström difference) X-ray: 1.54 PLAT362 2 Test for short C4—C4 (3ngström difference) X-ray: 1.54 PLAT363 2 Test for long C4—C3 (ångström difference) X-ray: 1.52 PLAT364 2 Test for long C4—C4 (ångström difference) X-ray: 1.52 PLAT365 2 Test for short C4—C4 (3ngström difference) X-ray: 1.54 PLAT366 2 Test for short C4—C4 (3ngström difference) X-ray: 1.55 PLAT367 2 Test for long C4—C3 (ángström difference) X-ray: 1.52 PLAT368 2 Test for short C4—C2 (ángström difference) X-ray: 1.52 PLAT369 2 Test for short C4—C2 (ángström difference) X-ray: 1.54 PLAT360 2 Test for short C4—C2 (ángström difference) X-ray: 1.55 PLAT360 2 Test for short C4—C2 (ángström difference) X-ray: 1.50 PLAT360 2 Test for short C4—C2 (ángström difference) X-ray: 1.46 PLAT360 2 Test for long C4—C3 (ángström difference) X-ray: 1.50 PLAT360 2 Test for long C4—C3 (ángström difference) X-ray: 1.50 PLAT360 2 Test for long C3—C2 (ángström difference) X-ray: 1.50 PLAT360 2 Test for long C3—C3 (ángström difference) X-ray: 1.50 PLAT360 2 Test for long C3—C3 (ángström difference) X-ray: 1.30 PLAT370 2 Test for long C3—C2 (ángström difference) X-ray: 1.31 PLAT371 2 Test for long C3—C2 (ángström difference) X-ray: 1.31 PLAT372 2 Test for long C3—C2 (ángström difference) X-ray: 1.31 PLAT373 2 Test for long C3—C2 (ángström difference) X-ray: 1.25 PLAT374 2 Test for long C3—C2 (ángström difference) X-ray: 1.25 PLAT375 2 Test for long C3—C2 (ángström difference) X-ray: 1.25 PLAT375 2 Test for long C3—C2 (ángström difference) X-ray: 1.25 PLAT375 2 Test for long C3—C2 (ángström difference) X-ray: 1.25 PLAT375 2 Test for long C3—C2 (ángström difference) X-ray: 1.25 PLAT3			1.009			
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PLAT357 3 Test for long B—H distance in X—BH <sub>3</sub> moiety PLAT358 3 Test for short B—H distance in (X, Y, Z)-B—H moiety PLAT359 3 Test for short B—H distance in (X, Y, Z)-B—H moiety PLAT360 2 Test for short C4—C4 (ångström difference) X-ray: 1.54 PLAT361 2 Test for long C4—C4 (ångström difference) X-ray: 1.54 PLAT362 2 Test for short C4—C3 (ångström difference) X-ray: 1.52 PLAT363 2 Test for short C4—C3 (ångström difference) X-ray: 1.52 PLAT364 2 Test for short C4—C2 (ångström difference) X-ray: 1.52 PLAT365 2 Test for long C4—C2 (ångström difference) X-ray: 1.46 PLAT366 2 Test for short C4—C2 (ångström difference) X-ray: 1.46 PLAT367 2 Test for long C4—C2 (ångström difference) X-ray: 1.46 PLAT368 2 Test for short C3—C3 (ångström difference) X-ray: 1.50 PLAT368 2 Test for short C3—C3 (ångström difference) X-ray: 1.34 PLAT369 2 Test for long C3—C3 (ångström difference) X-ray: 1.34 PLAT370 2 Test for long C3—C3 (ångström difference) X-ray: 1.34 PLAT371 1 Test for label problem for H-bond D—H···A distances in CIF PLAT370 2 Test for long C3—C2 (ångström difference) X-ray: 1.34 PLAT371 2 Test for long C3—C2 (ångström difference) X-ray: 1.34 PLAT371 2 Test for long C3—C2 (ångström difference) X-ray: 1.31 PLAT373 2 Test for long C3—C2 (ångström difference) X-ray: 1.25 PLAT374 2 Test for long C3—C2 (ångström difference) X-ray: 1.25 PLAT375 2 Test for long C4—C2 (ångström difference) X-ray: 1.25 PLAT376 3 Test for long C4—C2 (ångström difference) X-ray: 1.25 PLAT377 2 Test for long C3—C2 (ångström difference) X-ray: 1.25 PLAT373 4 Test for long C4—C2 (ångström difference) X-ray: 1.25 PLAT375 5 Test for long C4—C2 (ångström difference) X-ray: 1.25 PLAT376 7 Test for long C4—C4 (ångström difference) X-ray: 1.25 PLAT379 7 Test for long C4—C4 (ångström difference) X-ray: 1.25 PLAT379 7 Test for long C5—C4 (ångström difference) X-ray: 1.25 PLAT379 7 Test for long C5—C4 (ångström difference) X-ray: 1.25 PLAT379 7 Test for long C5—C4 (ångström difference) X-ray: 1.25 PLAT379 7 Test for long C5—C4 (ångström difference) X-ray: 1.25	PLAT355	3		PLAT707	1	Test for consistency of H-bond $D \cdots A$ distances and coordinates in CIF
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PLAT361 2 Test for long C4 —C4 (ångström difference) X-ray: 1.54 PLAT362 2 Test for short C4 —C3 (ångström difference) X-ray: 1.52 PLAT363 2 Test for long C4 —C3 (ångström difference) X-ray: 1.52 PLAT364 2 Test for long C4 —C2 (ångström difference) X-ray: 1.46 PLAT365 2 Test for long C4 —C2 (ångström difference) X-ray: 1.46 PLAT366 2 Test for long C4 —C2 (ångström difference) X-ray: 1.46 PLAT367 2 Test for long C4 —C3 (ångström difference) X-ray: 1.46 PLAT368 2 Test for long C4 —C3 (ångström difference) X-ray: 1.50 PLAT369 2 Test for long C7 —C7 (ångström difference) X-ray: 1.50 PLAT369 2 Test for long C3 —C3 (ångström difference) X-ray: 1.34 PLAT370 2 Test for long C3 —C3 (ångström difference) X-ray: 1.34 PLAT370 2 Test for long C3 —C2 (ångström difference) X-ray: 1.31 PLAT371 2 Test for long C3 —C2 (ångström difference) X-ray: 1.31 PLAT371 2 Test for long C3 —C2 (ångström difference) X-ray: 1.31 PLAT373 2 Test for long C3 —C2 (ångström difference) X-ray: 1.31 PLAT374 2 Test for long C3 —C2 (ångström difference) X-ray: 1.25 PLAT375 2 Test for long C3 —C2 (ångström difference) X-ray: 1.25 PLAT376 4 Test for long C3 —C2 (ångström difference) X-ray: 1.31 PLAT377 5 Test for long C3 —C2 (ångström difference) X-ray: 1.25 PLAT378 4 Test for long C3 —C2 (ångström difference) X-ray: 1.25 PLAT379 5 Test for long C3 —C2 (ångström difference) X-ray: 1.25 PLAT379 6 Test for long C3 —C4 (ångström difference) X-ray: 1.25 PLAT379 7 Test for long C3 —C4 (ångström difference) X-ray: 1.25 PLAT379 8 Test for long C3 —C4 (ångström difference) X-ray: 1.25 PLAT379 9 Test for long C4 —C5 (ångström difference) X-ray: 1.25 PLAT380 4 Test for long C3 —C4 (ångström difference) X-ray: 1.25 PLAT390 3 Test methyl moiety X—C—H bond angle						*
PLAT362 2 Test for short C4 —C3 (ångström difference) X-ray: 1.52 PLAT363 2 Test for long C4 —C3 (ångström difference) X-ray: 1.52 PLAT364 2 Test for short C4 —C2 (ångström difference) X-ray: 1.46 PLAT365 2 Test for long C4 —C2 (ångström difference) X-ray: 1.46 PLAT366 2 Test for long C4 —C2 (ångström difference) X-ray: 1.50 PLAT367 2 Test for long C? —C? (ångström difference) X-ray: 1.50 PLAT368 2 Test for long C? —C? (ångström difference) X-ray: 1.50 PLAT369 2 Test for long C3 —C3 (ångström difference) X-ray: 1.34 PLAT369 2 Test for long C3 —C3 (ångström difference) X-ray: 1.34 PLAT370 2 Test for long C3 —C2 (ångström difference) X-ray: 1.31 PLAT371 2 Test for long C3 —C2 (ångström difference) X-ray: 1.31 PLAT372 2 Test for long C3 —C2 (ångström difference) X-ray: 1.35 PLAT373 2 Test for long C3 —C2 (ångström difference) X-ray: 1.25 PLAT374 2 Test for long C3 —C2 (ångström difference) X-ray: 1.25 PLAT375 2 Test for long C3 —C2 (ångström difference) X-ray: 1.25 PLAT376 4 Test for long C3 —C2 (ångström difference) X-ray: 1.25 PLAT377 5 Test for long C3 —C2 (ångström difference) X-ray: 1.25 PLAT378 4 Test for long C3 —C2 (ångström difference) X-ray: 1.25 PLAT379 5 Test for long C3 —C2 (ångström difference) X-ray: 1.25 PLAT370 7 Test for long C3 —C2 (ångström difference) X-ray: 1.25 PLAT373 8 Test for long C3 —C2 (ångström difference) X-ray: 1.25 PLAT374 9 Test for long C3 —C2 (ångström difference) X-ray: 1.25 PLAT375 1 Test for long C3 —C3 (ångström difference) X-ray: 1.25 PLAT376 2 Test for long C3 —C3 (ångström difference) X-ray: 1.25 PLAT377 1 Test for long C3 —C3 (ångström difference) X-ray: 1.25 PLAT379 2 Test for long C3 —C4 (ångström difference) X-ray: 1.25 PLAT370 2 Test for long C3 —C5 (ångström difference) X-ray: 1.25 PLAT370 2 Test for long C3 —C4 (ångström difference) X-ray: 1.25 PLAT371 1 Test for consistency of H-bond D—H distances and coordinates in CIF PLAT373 2 Test for long N—N bond (> 1.45 Å) PLAT375 1 Test for consistency of H-bond D···A distances and coordinates in CIF PLAT379 3 Test for lo						*
PLAT363 2 Test for long C4 —C3 (ångström difference) X-ray: 1.52 PLAT715 1 Test for label problem for H-bond D—H distances in CIF PLAT364 2 Test for short C4 —C2 (ångström difference) X-ray: 1.46 PLAT365 2 Test for long C4 —C2 (ångström difference) X-ray: 1.46 PLAT366 2 Test for long C7 —C? (ångström difference) X-ray: 1.50 PLAT367 2 Test for long C? —C? (ångström difference) X-ray: 1.50 PLAT368 2 Test for short C3 —C3 (ångström difference) X-ray: 1.34 PLAT369 2 Test for long C3 —C3 (ångström difference) X-ray: 1.34 PLAT370 2 Test for long C3 —C2 (ångström difference) X-ray: 1.31 PLAT371 2 Test for long C3 —C2 (ångström difference) X-ray: 1.31 PLAT372 2 Test for long C3 —C2 (ångström difference) X-ray: 1.25 PLAT373 2 Test for long C4 —C2 (ångström difference) X-ray: 1.25 PLAT374 2 Test for long C3 —C2 (ångström difference) X-ray: 1.25 PLAT374 2 Test for long C3 —C2 (ångström difference) X-ray: 1.25 PLAT375 2 Test for long C3 —C2 (ångström difference) X-ray: 1.25 PLAT375 2 Test for long C4 —C3 (ångström difference) X-ray: 1.25 PLAT375 2 Test for long C4 —C2 (ångström difference) X-ray: 1.25 PLAT375 2 Test for long C4 —C2 (ångström difference) X-ray: 1.25 PLAT375 2 Test for long C4 —C2 (ångström difference) X-ray: 1.25 PLAT375 2 Test for long C4 —C2 (ångström difference) X-ray: 1.25 PLAT375 2 Test for long C4 —C2 (ångström difference) X-ray: 1.25 PLAT375 2 Test for long C4 —C2 (ångström difference) X-ray: 1.25 PLAT375 2 Test for long C4 —C2 (ångström difference) X-ray: 1.25 PLAT375 2 Test for long C4 —C2 (ångström difference) X-ray: 1.25 PLAT375 2 Test for long C4 —C2 (ångström difference) X-ray: 1.25 PLAT375 2 Test for long C4 —C2 (ångström difference) X-ray: 1.25 PLAT375 2 Test for long C4 —C2 (ångström difference) X-ray: 1.25 PLAT375 2 Test for long C4 —C2 (ångström difference) X-ray: 1.25 PLAT375 2 Test for long C4 —C2 (ångström difference) X-ray: 1.25 PLAT375 2 Test for long C4 —C4 long long long long long long long long						*
PLAT364 2 Test for short C4 —C2 (ångström difference) X-ray: 1.46 PLAT365 2 Test for long C4 —C2 (ångström difference) X-ray: 1.46 PLAT366 2 Test for short C? —C? (ångström difference) X-ray: 1.50 PLAT367 2 Test for long C? —C? (ångström difference) X-ray: 1.50 PLAT368 2 Test for short C3 —C3 (ångström difference) X-ray: 1.34 PLAT369 2 Test for long C3 —C3 (ångström difference) X-ray: 1.34 PLAT370 2 Test for long C3 —C2 (ångström difference) X-ray: 1.31 PLAT371 2 Test for long C3 —C2 (ångström difference) X-ray: 1.31 PLAT371 2 Test for long C3 —C2 (ångström difference) X-ray: 1.31 PLAT372 2 Test for long C3 —C2 (ångström difference) X-ray: 1.25 PLAT373 2 Test for long C4 —C2 (ångström difference) X-ray: 1.25 PLAT374 2 Test for long C4 —C2 (ångström difference) X-ray: 1.25 PLAT375 2 Test for long C4 —C2 (ångström difference) X-ray: 1.25 PLAT370 3 Test for long C4 —C2 (ångström difference) X-ray: 1.25 PLAT380 4 Test for incorrectly oriented methyl moiety PLAT390 3 Test methyl moiety X—C—H bond angle  PLAT390 3 Test methyl moiety X—C—H bond angle						*
PLAT365 2 Test for long C4 —C2 (ångström difference) X-ray: 1.46 PLAT366 2 Test for short C? —C? (ångström difference) X-ray: 1.50 PLAT367 2 Test for long C? —C? (ångström difference) X-ray: 1.50 PLAT368 2 Test for long C? —C? (ångström difference) X-ray: 1.34 PLAT369 2 Test for long C3 —C3 (ångström difference) X-ray: 1.34 PLAT370 2 Test for long C3 —C3 (ångström difference) X-ray: 1.34 PLAT371 2 Test for long C3 —C2 (ångström difference) X-ray: 1.31 PLAT371 2 Test for long C3 —C2 (ångström difference) X-ray: 1.31 PLAT372 2 Test for long C3 —C2 (ångström difference) X-ray: 1.31 PLAT373 2 Test for long C2 —C2 (ångström difference) X-ray: 1.25 PLAT374 2 Test for long C3 —C2 (ångström difference) X-ray: 1.25 PLAT375 2 Test for long N—N bond (> 1.45 Å) PLAT376 4 Test for incorrectly oriented methyl moiety PLAT380 4 Test for incorrectly oriented methyl moiety PLAT390 3 Test methyl moiety X—C—H bond angle PLAT390 3 Test methyl moiety X—C—H bond angle						•
PLAT366 2 Test for short C? —C? (ångström difference) X-ray: 1.50 PLAT367 2 Test for long C? —C? (ångström difference) X-ray: 1.50 PLAT368 2 Test for short C3 —C3 (ångström difference) X-ray: 1.34 PLAT369 2 Test for long C3 —C3 (ångström difference) X-ray: 1.34 PLAT370 2 Test for long C3 —C3 (ångström difference) X-ray: 1.31 PLAT371 2 Test for long C3 —C2 (ångström difference) X-ray: 1.31 PLAT371 2 Test for long C3 —C2 (ångström difference) X-ray: 1.31 PLAT372 2 Test for long C3 —C2 (ångström difference) X-ray: 1.31 PLAT373 2 Test for long C2 —C2 (ångström difference) X-ray: 1.25 PLAT374 2 Test for long C2 —C2 (ångström difference) X-ray: 1.25 PLAT375 2 Test for long N—N bond (> 1.45 Å) PLAT376 2 Test for incorrectly oriented methyl moiety PLAT380 4 Test for incorrectly oriented methyl moiety PLAT390 3 Test methyl moiety X—C—H bond angle  PLAT390 3 Test methyl moiety X—C—H bond angle						*
PLAT367 2 Test for long C? —C? (ångström difference) X-ray: 1.50 PLAT368 2 Test for short C3 —C3 (ångström difference) X-ray: 1.34 PLAT369 2 Test for long C3 —C3 (ångström difference) X-ray: 1.34 PLAT370 2 Test for long C3 —C2 (ångström difference) X-ray: 1.31 PLAT371 2 Test for long C3 —C2 (ångström difference) X-ray: 1.31 PLAT372 2 Test for long C3 —C2 (ångström difference) X-ray: 1.31 PLAT373 2 Test for long C2 —C2 (ångström difference) X-ray: 1.25 PLAT374 2 Test for long C2 —C2 (ångström difference) X-ray: 1.25 PLAT375 2 Test for long N—N bond (> 1.45 Å) PLAT376 2 Test for incorrectly oriented methyl moiety PLAT380 4 Test methyl moiety X—C—H bond angle  PLAT370 4 Test for unusual labels PLAT721 1 Test for consistency of bonds and coordinates in CIF PLAT722 1 Test for consistency of angles and coordinates in CIF PLAT723 1 Test for consistency of torsions and coordinates in CIF PLAT772 2 Test for long C3 —C2 (ångström difference) X-ray: 1.25 PLAT775 2 Test for long C2 —C2 (ångström difference) X-ray: 1.25 PLAT376 2 Test for long N—N bond (> 1.45 Å) PLAT776 2 Test for consistency of H-bond H···A distances and coordinates in CIF PLAT380 4 Test for incorrectly oriented methyl moiety PLAT390 3 Test methyl moiety X—C—H bond angle						•
PLAT368 2 Test for short C3 —C3 (ångström difference) X-ray: 1.34 PLAT369 2 Test for long C3 —C3 (ångström difference) X-ray: 1.34 PLAT370 2 Test for short C3 —C2 (ångström difference) X-ray: 1.31 PLAT371 2 Test for long C3 —C2 (ångström difference) X-ray: 1.31 PLAT372 2 Test for long C3 —C2 (ångström difference) X-ray: 1.31 PLAT373 2 Test for long C2 —C2 (ångström difference) X-ray: 1.25 PLAT374 2 Test for long C2 —C2 (ångström difference) X-ray: 1.25 PLAT375 2 Test for long N—N bond (> 1.45 Å) PLAT376 2 Test for long N—N bond (> 1.45 Å) PLAT377 2 Test for incorrectly oriented methyl moiety PLAT380 4 Test for incorrectly oriented methyl moiety PLAT390 3 Test methyl moiety X—C—H bond angle PLAT390 3 Test methyl moiety X—C—H bond angle						•
PLAT369 2 Test for long C3 —C3 (ångström difference) X-ray: 1.34 PLAT370 2 Test for short C3 —C2 (ångström difference) X-ray: 1.31 PLAT371 2 Test for long C3 —C2 (ångström difference) X-ray: 1.31 PLAT372 2 Test for long C3 —C2 (ångström difference) X-ray: 1.31 PLAT373 2 Test for long C2 —C2 (ångström difference) X-ray: 1.25 PLAT373 2 Test for long C2 —C2 (ångström difference) X-ray: 1.25 PLAT374 2 Test for long C2 —C2 (ångström difference) X-ray: 1.25 PLAT375 2 Test for long N—N bond (> 1.45 Å) PLAT376 2 Test for long N—N bond (> 1.45 Å) PLAT377 2 Test for incorrectly oriented methyl moiety PLAT380 4 Test for incorrectly oriented methyl moiety PLAT390 3 Test methyl moiety X—C—H bond angle						
PLAT370 2 Test for short C3 —C2 (ångström difference) X-ray: 1.31 PLAT371 2 Test for long C3 —C2 (ångström difference) X-ray: 1.31 PLAT372 2 Test for short C2 —C2 (ångström difference) X-ray: 1.25 PLAT373 2 Test for long C2 —C2 (ångström difference) X-ray: 1.25 PLAT374 2 Test for long C2 —C2 (ångström difference) X-ray: 1.25 PLAT375 2 Test for long N—N bond (> 1.45 Å) PLAT375 2 Test for C—O—H with large C—O distance PLAT380 4 Test for incorrectly oriented methyl moiety PLAT390 3 Test methyl moiety X—C—H bond angle  PLAT390 3 Test methyl moiety X—C—H bond angle						· ·
PLAT371 2 Test for long C3 —C2 (ångström difference) X-ray: 1.31 PLAT724 2 Test for consistency of contact distances and coordinates in CIF PLAT372 2 Test for short C2 —C2 (ångström difference) X-ray: 1.25 PLAT373 2 Test for long C2 —C2 (ångström difference) X-ray: 1.25 PLAT374 2 Test for long N—N bond (> 1.45 Å) PLAT375 2 Test for C—O—H with large C—O distance PLAT380 4 Test for incorrectly oriented methyl moiety PLAT390 3 Test methyl moiety X—C—H bond angle PLAT390 3 Test methyl moiety X—C—H bond angle PLAT390 3 Test methyl moiety X—C—H bond angle PLAT391 2 Test for consistency of H-bond D—H distances and coordinates in CIF PLAT391 2 Test for consistency of H-bond H· ·· A distances and coordinates in CIF PLAT391 1 Test for consistency of H-bond D· ·· A distances and coordinates in CIF PLAT391 1 Test for consistency of H-bond D· ·· A distances and coordinates in CIF PLAT391 1 Test for consistency of H-bond D· ·· A distances and coordinates in CIF PLAT391 2 Test for consistency of H-bond D· ·· A distances and coordinates in CIF PLAT391 2 Test for consistency of H-bond D· ·· A distances and coordinates in CIF PLAT391 3 Test methyl moiety X—C—H bond angle						
PLAT372 2 Test for short C2 —C2 (ångström difference) X-ray: 1.25 PLAT373 2 Test for long C2 —C2 (ångström difference) X-ray: 1.25 PLAT374 2 Test for long N—N bond (> 1.45 Å) PLAT375 2 Test for C—O—H with large C—O distance PLAT380 4 Test for incorrectly oriented methyl moiety PLAT390 3 Test methyl moiety X—C—H bond angle  PLAT379 2 Test for consistency of H-bond H···A distances and coordinates in CIF PLAT370 1 Test for consistency of H-bond D···A distances and coordinates in CIF						· ·
PLAT373 2 Test for long C2 —C2 (ångström difference) X-ray: 1.25  PLAT374 2 Test for long N—N bond (> 1.45 Å)  PLAT375 2 Test for C—O—H with large C—O distance  PLAT380 4 Test for incorrectly oriented methyl moiety  PLAT390 3 Test methyl moiety X—C—H bond angle  CIF  PLAT726 2 Test for consistency of H-bond H···A distances and coordinates in CIF  PLAT727 1 Test for consistency of H-bond D···A distances and coordinates in CIF						Test for consistency of H-bond <i>D</i> —H distances and coordinates in
PLAT375 2 Test for C—O—H with large C—O distance PLAT380 4 Test for incorrectly oriented methyl moiety PLAT390 3 Test methyl moiety X—C—H bond angle  in CIF  Test for consistency of H-bond D···A distances and coordinates in CIF	PLAT373	2				· · · · · · · · · · · · · · · · · · ·
PLAT380 4 Test for incorrectly oriented methyl moiety PLAT390 3 Test methyl moiety X—C—H bond angle  PLAT727 1 Test for consistency of H-bond D···A distances and coordinates in CIF	PLAT374	2	Test for long N—N bond (> 1.45 Å)	PLAT726	2	Test for consistency of H-bond $H \cdot \cdot \cdot A$ distances and coordinates
PLAT390 3 Test methyl moiety X—C—H bond angle in CIF	PLAT375	2	Test for C—O—H with large C—O distance			in CIF
				PLAT727	1	Test for consistency of H-bond $D \cdot \cdot \cdot A$ distances and coordinates
PLAT391 3 Test methyl moiety H—C—H bond angle			• •			in CIF
	PLAT391	3	Test methyl moiety H—C—H bond angle			

PLAT794 5 PLAT795 4

Test for C-atom labels ordered

Test name	Тур	Type Purpose			Type Purpose		
PLAT728	1	Test for consistency of H-bond $D$ — $H \cdot \cdot \cdot A$ angles and coordinates	PLAT796	4	Test for O-atom labels ordered		
		in CIF	PLAT797	4	Test for N-atom labels ordered		
PLAT731	1	Test for consistency of bond s.u.'s and coordinate s.u.'s in CIF	PLAT798	4	Test for alphanumeric label on coordinate record		
PLAT732	1	Test for consistency of angles and coordinates in CIF s.u.'s	PLAT799	4	Test for alphanumeric label on displacement parameter record		
PLAT733	1	Test for consistency of torsions and coordinates in CIF s.u's	PLAT800	4	Test for out-of-order symmetry data		
PLAT734	1	Test for consistency of contact distance s.u. and coordinate s.u. in	PLAT801	4	Test for missing, incomplete or out-of-order cell data		
		CIF	PLAT802	4	Test for input lines longer than 80 characters		
PLAT735	1	Test for consistency of H-bond <i>D</i> —H distance s.u. and coordinate	PLAT803	1	Test for loop problem in CIF-read		
		s.u in CIF	PLAT804	5	Test for ARU-pack problem(s) in <i>PLATON</i>		
PLAT736	1	Test for consistency of H-bond $H \cdot \cdot \cdot A$ distance s.u. and coordi-	PLAT805	1	Test for insufficient 'coordinate data'		
DI ATTACA		nates in CIF	PLAT806	4	Test for insufficient ' $U_{ij}$ data'		
PLAT737	1	Test for consistency of H-bond $D \cdot \cdot \cdot A$ distance s.u. and coordi-			Test for maximum number of ATOMS exceeded problem		
DI AT729	1	nates in CIF	PLAT808 PLAT809	5 1	Test for parseable SHELXL style weighting scheme		
PLAT738	1	Test for consistency of H-bond $D$ — $H \cdot \cdot \cdot A$ angle and coordinates in CIF s.u.	PLAT810		Test the SHELXL style weighting scheme Test for out-of-memory problem		
PLAT741	1	Test for missing bond s.u. in CIF	PLAT811	5	Test for out-or-memory problem Test for no ADDSYM analysis		
PLAT742	1	Test for missing angle s.u. in CIF		5	Test for ALIAS OVERFLOW		
	1	Test for missing daigle s.u. in CIF	PLAT813	1	Test for insufficient data on HKLF record in CIF		
PLAT744	1	Test for missing contact distance s.u. in CIF	PLAT814	5	Test for (in)commensurate structure CIF		
PLAT745	1	Test for missing H-bond D—H distance s.u. in CIF	PLAT815	5	Test for number of population parameter overflow		
PLAT746	1	Test for missing H-bond $H \cdot \cdot \cdot A$ distance s.u. in CIF	PLAT816		Test for final refinement with detwinned HKLF 4 data		
PLAT747	1	Test for missing H-bond D $\cdots$ A distance s.u. in CIF			Report read problem in <i>PLATON</i> /PLA230		
PLAT748	1	Test for missing H-bond $D$ — $H \cdot \cdot \cdot A$ angle s.u. in CIF	PLAT822	4	Check for negative PART record(s) in CIF-embedded shelxl.res		
PLAT751	4	Test for senseless bond s.u. in CIF			file		
PLAT752	4	Test for senseless angle s.u. in CIF	PLAT850	4	Test for BASF/TWIN problem in SHELXL		
PLAT753	4	Test for senseless torsion s.u. in CIF	PLAT860	3	Test for restraints used in refinement		
PLAT754	4	Test for senseless contact distance s.u. in CIF	PLAT868	4	Report the suppression of Olex2/_smtbx_masks use related		
PLAT755	4	Test for senseless H-bond D—H distance s.u. in CIF			ALERTS		
PLAT756	4	Test for senseless H-bond $H \cdot \cdot \cdot A$ distance s.u. in CIF	PLAT869	4	Report the suppression of SQUEEZE use related ALERTS		
PLAT757	4	Test for senseless H-bond $D \cdot \cdot \cdot A$ distance s.u. in CIF	PLAT870	4	Report the suppression of some twinning related ALERTS		
PLAT758	4	Test for Senseless H-bond $D$ — $H \cdot \cdot \cdot A$ angle s.u. in CIF	PLAT871	4	Report the suppression of some Laue technique related ALERTS		
PLAT760	1	Test for the presence of at least one torsion angle in the CIF	PLAT872	4	Report the suppression of anharmonic refinement related ALERTS		
PLAT761	1	Test for the presence of at least one <i>X</i> —H in the CIF	PLAT880	1	Report missing datum for _diffrn_reflns_number		
PLAT762	1	Test for at least one $X$ — $Y$ — $H$ or $H$ — $Y$ — $H$ entry in the CIF	PLAT881	1	Report missing datum for _diffrn_reflns_av_R_equivalents		
PLAT763	1	Test for missing bonds in CIF	PLAT882	1	Report missing datum fordiffrn_reflns_av_unetI/netI		
PLAT764	4	Test for overcomplete bonds in CIF		1	Report missing datum for _atom_sites_solution_primary		
PLAT766	4	Test for erroneous LIST 8 instruction in embedded .ins file	PLAT898	4	Check for duplicate H-M space-group symbol		
PLAT767	4	Test for erroneous LIST 6 instruction in embedded .ins file	PLAT899	4	Report the use of an older SHELXL version		
PLAT768 PLAT769	4	Test for CIF/RES embedded explicit scattering factor values	PLAT900	1	Test for 'no-matching reflection file'		
PLAT770	4	Test for CIF embedded explicit scattering factor values Test for suspect C—H bonds in CIF (not caught otherwise)	PLAT901 PLAT902	1 1	Test for CIF and FCF CELL not matching Test for non-zero number of recognised reflections in FCF		
PLAT771	2	Test for suspect N—H bonds in CIF (not caught otherwise)	PLAT902 PLAT903	1	Test for Fobs=Fcalc in FCF		
PLAT772	2	Test for suspect O—H bonds in CIF (not caught otherwise)	PLAT904	1	Test for NREF > NPAR in the CIF		
PLAT773		Test for suspect C—C bonds in CIF (not caught otherwise)	PLAT905	3	Report negative <i>K</i> values in the analysis of variance		
PLAT774		Test for too large / erroneous bond distance	PLAT906		Report large K values in the analysis of variance		
PLAT775	1	Test for too large / erroneous contact distance	PLAT907	2	Check whether the structure needs to be inverted		
PLAT776	1	Test for too large / erroneous H-bond D—H distance	PLAT908	2	Report on max observed data in any resolution shell		
PLAT777	2	Check for $N \cdot \cdot \cdot H \cdot \cdot \cdot X$ + bonds in CIF	PLAT909	3	Report of observed data at $\theta$ cutoff		
PLAT778	2	Check for $O \cdot \cdot \cdot H \cdot \cdot \cdot X +$ bonds in CIF	PLAT910	3	Test for number of missing reflections below $\theta_{\min}$		
PLAT779	4	Test for suspect angle in CIF (not caught otherwise)	PLAT911	3	Test for missing reflections between $\theta_{\min}$ and $(\sin \theta)/\lambda = 0.6$		
PLAT780	1	Test whether coordinates form a connected set	PLAT912	4	Test for missing reflections above $(\sin \theta)/\lambda = 0.6$		
PLAT781	1	Test for Flack x value for centrosymmetric space-group	PLAT913	3	Test for missing strong reflections		
PLAT782	2	Test for unusual C-NO2 and C-CO2 moiety bond geometry	PLAT914		Test for absence of Bijvoet pairs in non-centro structure		
PLAT787	4	Test for El1 in sum formula	PLAT915	3	Test for low Friedel pair coverage in non-centro structure		
PLAT788	4	Test for El1 in moiety formula	PLAT916		Test for differing Flack x and Hooft y parameter values		
PLAT789	4	Report the number of atoms with negative	PLAT917		Test/report whether FCF is basedon a BASF/TWIN refinement		
		_atom_site_disorder_group	PLAT918		Test for reflections with $I(obs) \ll I(calc)$		
PLAT790	4	Test whether c.g. residue in unit-cell box	PLAT919	3	Test for reflections affected by the beamstop		
PLAT791	4	Check the absolute configuration of chiral atom in Sohnke space			Test for $\theta_{\text{max}}$ consistency between CIF and FCF		
DI (mess		group		1	Test for R1 consistency between CIF and FCF (reported)		
PLAT792	1	Check the absolute configuration of chiral atom in a polar non-	PLAT922	1	Test for wR2 consistency between CIF and FCF (reported)		
DI ATEGOS	4	Sohnke space group  Chaoli the chaolite configuration of chiral atom in a contraction					
PLAT793	4	Check the absolute configuration of chiral atom in a centrosym-					
DI AT704	5	metric space group  Papert the calculated 'valence bond' valency for metals					
PLAT794 PLAT795	5 1	Report the calculated 'valence bond' valency for metals Test for C-atom labels ordered					

Test name	Тур	be Purpose
PLAT923	1	Test for <i>S</i> consistency between CIF and FCF (reported)
PLAT924	1	Test for consistency of the reported and calculated $ ho_{\min}$
PLAT925	1	Test for consistency of the reported and calculated $ ho_{ m max}$
PLAT926	1	Test for R1 consistency between CIF and FCF (calculated)
PLAT927	1	Test for wR2 consistency between CIF and FCF (calculated)
PLAT928	1	Test for S consistency between CIF and FCF (calculated)
PLAT929	5	Test for interpretable weight parameters for $R1$ , $wR2$ and $S$ comparison
PLAT930	2	Test for missed twinning from FCF data
PLAT931	5	Test for missed twinning from FCF/CIF data
PLAT933	2	Report number of OMIT records in embedded .res file
PLAT934	3	Report number of outliers in the FCF file
PLAT935	2	Pseudo extinction parameter test
PLAT936	2	Test for DAMP instruction in embedded .res file
PLAT937	4	Report exponential term in SHELXL weight expression
PLAT939	3	Test for high not-weight-optimized S value
PLAT940	3	Test for wR2 refinement with all data
PLAT941	3	Test fit low measured hkl multiplicity
PLAT949	5	Test for Poisson type intensity Sigma distribution
PLAT950	5	Test for reported and calculated $H_{\text{max}}$ difference (from CIF data)
PLAT951	5	Test for reported and calculated $K_{\text{max}}$ difference (from CIF data)
PLAT952	5	Test for reported and calculated $L_{\text{max}}$ difference (from CIF data)
PLAT953	1	Test for reported (in CIF) and actual $H_{\text{max}}$ difference in the FCF file
PLAT954	1	Test for reported (in CIF) and actual $K_{\text{max}}$ difference in the FCF file
PLAT955	1	Test for reported (in CIF) and actual $L_{\text{max}}$ difference in the FCF file
PLAT956	1	Test for calculated ( $\theta_{max}$ ) and actual $H_{max}$ difference in the FCF file
PLAT957	1	Test for calculated ( $\theta_{max}$ ) and actual $K_{max}$ difference in the FCF file
PLAT958	1	Test for calculated ( $\theta_{max}$ ) and actual $L_{max}$ difference in the FCF file
PLAT960	3	Test for reflections with $I < -2\sigma$
PLAT961	5	Test for absence of negative observed intensities
PLAT962	5	Test for input reflections with $\sigma(I) = 0.0$
PLAT963	2	Test for both weighting parameter values zero (SHELXL)
PLAT964	2	Test for consistency of <i>SHELXL</i> weight parameters in CIF and embedded res file
PLAT965	2	Test whether the <i>SHELXL</i> weight optimization has converged
PLAT966	5	Test/report omit threshold criterion value
PLAT967	5	Report $\theta$ cutoff (OMIT) record in embedded .res file
PLAT969	5	Report 'Henn <i>et al.</i> ' predicted and <i>R</i> -factor-gap values
PLAT970	5	Test/report electron diffraction
PLAT970 PLAT971	2	Test for large positive calculated residual density
PLAT971 PLAT972		Test for large positive calculated residual density
	2 2	
PLAT973 PLAT974		Test for large positive density on metal atom
	2	Test for positive density peer N or O
PLAT975	2	Test for positive density near N or O
PLAT976	2	Test for negative density on H etem positions
PLAT977	2	Test for negative density on H atom positions
PLAT978	2	Report number of cases with positive density on C—C bonds
PLAT979	1	Report the use of <i>NoSpherA2</i> scattering factors
PLAT980	1	Test for non-zero number of anomalous scattering factors
PLAT981	1	Test for non-zero $f''$ anomalous scattering factor values
PLAT982	1	Test the anomalous scattering factor $f'$ values against IT
PLAT983	1	Test the anomalous scattering factor $f''$ values against IT
PLAT984	1	Test the anomalous scattering factor $f'$ values against B and C
PLAT985	1	Test the anomalous scattering factor $f''$ values against B and C
PLAT986	1	Test for non-zero $f'$ anomalous scattering factor values
PLAT987	1	Test for the need of a TWIN/BASF refinement
PLAT988	1	Report the use of supplied $f'$ for missing internally calculated value
PLAT989	1	Report the use of supplied $f'$ for missing internally calculated value
PLAT990	1	Report deprecated .res file based SQUEEZE job

Test name	Тур	e Purpose						
PLAT991	5	Report on generated hkl data						
PLAT992	5	Report difference between reported and actua						
		_reflns_number_gt values						
PLAT993	1	Report missing .bodd include file						
PLAT994	1	Report missing SHELXL/MERG instruction						
PLAT995	1	Report problem with recreating FCF with SHELXL						
PLAT996	1	Test validity of SHELXL style LIST 4 $F_o/F_c$ FCF file						
PLAT997	1	Test for acceptable CIF/FCF file combination for SHELXL						
PLAT998	1	Test for LIST3						
PLAT999	1	Test for LIST6						