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## Iso 13528

**revision of iso 13528 - eurachem** - revision of iso 13528: statistical methods for proficiency testing by interlaboratory comparison 8th eurachem pt workshop 7 october, 2014 daniel tholen, m.s. traverse city, mi  
revision of iso 13528 iso tc69 -sc6 wg9 revision process -cd & dis ballots -fdis major changes from current version **use of a iso 13528 template for quantitative schemes : the ...** - iso 17043 and homogeneity and stability • iso 17043 requires that an eqa provider demonstrates “sufficient homogeneity and stability” of the material using valid statistical methods. the standard refers the reader to iso 13528 - statistical methods for use in proficiency testing by interlaboratory comparisons and **statistical methods for use in proficiency testing by ...** - iso 13528 is to a large extent based on a harmonized protocol for the proficiency testing of analytical laboratories [1] , but is intended for use with all this is a free 7 page sample. **statistical methods for use in proficiency testing by ...** - iso 13528 is to a large extent based on a harmonized protocol for the proficiency testing of analytical laboratories [1] , but is intended for use with all measurement methods.

**eurachem pt conference** - r i i f iso 13528revision of iso 13528: statistical methods for pt by statistical methods for pt by interlaboratory comparison eurachem pt conference 4 october, 2011 dilthl msdaniel tholen, m.s. american proficiency institute (api) **international iso this is a preview of iso 13528:2015 ...** - 0.3 iso 13528 and iso/iec 17043 iso 13528 provides support for the implementation of iso/iec 17043 particularly, on the requirements for the statistical design, validation of proficiency test items, review of results, and reporting summary statistics. annex b of iso/iec 17043:2010 briefly describes the general statistical methods that are **statistical methods for use in proficiency testing by ...** - 0.3 iso 13528 and iso/iec 17043. iso 13528 provides support for the implementation of iso/iec 17043 particularly, on the requirements for the statistical design, validation of proficiency test items, review of results, and reporting summary statistics. annex b of iso/iec 17043:2010 briefly describes the general statistical methods that are **protocol for proficiency testing schemes controlled** - iso/iec 17043:2010 [1] defines pt as the evaluation of participant performance against pre-established criteria by means of interlaboratory comparisons. the demand for independent demonstration of competence, from regulatory bodies and customers, means that proficiency testing is relevant to all laboratories testing samples for quality and safety. **statistics for interlaboratory comparisons - inmetro** - iso 13528 zcompanion to iso guide 43-1 authored by tc-69, sc6, wg1 zwritten as a standard zhig interest / many comments zgoal is to describe optimal procedures, but to allow other procedures as long as they are: - statistically valid - fully described to users. **evaluation of proficiency test data by different ...** - protocol - iso 13528 - robust statistics - fitness for purpose pedro rosario, josé luis martínez and josé miguel silván: evaluation of proficiency test data by different statistical methods comparison **report activity ,, qica workshop on iso/iec 17043 and iso ...** - the workshop was conducted to address the need for a common application of the iso standards, and to build a foundation for cooperation in development of pt schemes. task (according to tor): the task for the contractor was to develop and conduct a 3-day workshop on the requirements of iso/iec 17043 and iso 13528. **edition 2 iso 13528:2015 - sabs webstore** - edition 2 iso 13528:2015 edition 2 south african national standard . statistical methods for use in proficiency testing by interlaboratory comparison . this national standard is the identical implementation of iso 13528:2015, and is **is the assessment of interlaboratory comparison results ...** - comparison, then according to iso 13528, they should be determined from participant results through robust analysis. it is recommended that algorithm a [4, 7] be used to obtain robust values of the assigned value and sd. how-ever, the question arises whether this algorithm might be used for the estimation of  $x$  and  $r$  in the case under con- **the question of homogeneity inside a chimney: application ...** - on iso 13528 annex b. this modified homogeneity check was successfully applied to our stack emission pt and should be applicable to sampling pts in general. keywords stack emissions proficiency tests sampling homogeneity check iso 13528 iso 17043 list of symbols d particle diameter g number of proficiency test items or sampling **verification of statistical calculations in ...** - verification of statistical calculations in interlaboratory comparisons by simulating input datasets . acko, b. \*; brezovnik, ssek lipus, l. ... validation algorithms for verifying statistical calculations in interlaboratory comparisons. this ... the verification of statistical calculations in the developed software (created in visual studio **standards published - unms** - standards published new international standards published between 01 july and 31 july 2015 \* available in english only \*\* french version of standard previously published in english only price group tc 6 paper, board and pulps iso 302:2015 \* pulps — determination of kappa number b tc 20 aircraft and space vehicles iso 16130:2015 \* **conformity assessment general requirements for proficiency ...** - iso/iec 17043&13528 training wednesday morning iso 13528, current and revised -introduction to statistical standards for pt -reasons for revision of iso 13528 change in statistical model -general approach - objectives for pt -techniques in current document that remain -techniques proposed for removal -new techniques proposed **interlaboratory proficiency test 05/2015 - helda** - international guidelines iso/iec 17043 [1], iso 13528 [2] and iupac technical report [3]. finnish environment institute (syke) is appointed national reference laboratory in the environmental sector in finland. the duties of the reference laboratory include providing **proficiency testing program for u.s. state weights and ...** - the pt program that follows ilac g13 [4] and iso/iec guide 43 [5]. changes that are being

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made now will ensure future compliance with iso/iec 17043:2010 [6] and use of iso 13528:2005 [7]. the pt program is primarily operated by nist staff and by volunteers who are experienced metrologists; have participated in **cpt statistical manual v3 - national measurement institute ...** - cpt. these methods are based on the procedures described in iso 13528:2005 (e) "statistical methods for use in proficiency testing by interlaboratory comparisons"<sup>1</sup> and "the international harmonized protocol for the proficiency testing of analytical chemistry laboratories"<sup>2</sup>. **the aafco proficiency testing program statistics and reporting** - uses iso statistical models -iso 13528, 2005 and iso 5725-2, 1994 robust statistics used as described in the ihp and iso 13528 duplicate analysis supports method precision calculations. proficiency testing often required for laboratory accreditation. independent documentation on how it all works. **sample homogeneity testing - aapfco** - sample homogeneity testing following the protocol outlined in: "the international harmonized protocol for the proficiency testing of analytical laboratories", 2006 (ihp), michael thompson, stephen l. r. ellison and roger wood and: "statistical methods for use in proficiency testing by interlaboratory comparison" iso 13528, second edition, **the fourth radiation transfer model intercomparison (ramiâ ...** - tion, the international standard iso 13528 [2005] (and in part also iso 5725-2 [1994]) is applied to the data sub-mitted to the fourth phase of the radiation transfer model intercomparison (rami) exercise. [5] as an open, self-organizing activity of the canopy rt modeling community the rami exercise has focused, **eurl-hm-23 proficiency test report - european commission** - homogeneity was evaluated according to iso 13528:2015 [7]. the test item proved to be adequately homogeneous for the investigated analytes. the stability study confirmed that the material was stable and the uncertainty contribution due to stability was set to zero ( $u_{st} = 0$ ) for all analytes. **workshop schedule presenters - quodata** - workshop schedule presenters daniel tholen: convener of iso/casco wg 28 for drafting iso/iec 17043 and iso/tc69 wg for revising iso 13528. currently, dan is the ilac liaison for tc69 - the iso committee for application of statistical methods; and **homogeneity of eqa samples requirements according to iso ...** - 5 baumeister: homogeneity of eqa samples, eqalm symposium 2013, bucharest iso 13528 - homogeneity - method 1. preparation and packaging of the samples 2. random selection of at least 10 samples per batch ( $g \geq 10$ ) 3. preparation of two test portions (subsample) **iso/iec 17043: a new international standard for ...** - daniel w. tholen: ms : iso/iec 17043: a new international standard for proficiency testing 5 2007. it references two important documents on statistical methods for pt- iso 13528 and the iupac harmonized protocol for proficiency testing [13]. the new annex b will also provide guidance on issues such as determination of the assigned **iso 5725:1994 accuracy (trueness and precision) of ...** - the proficiency tests standards iso 13528:2005 and iso 17034:2010. •some of the main features of the inter-comparison exercise are different in the three cases. amctm 2014 8 one of the aims is the estimate of the method accuracy and precision and of the laboratory biases **report on the inter-laboratory comparison exercise ...** - laboratory results were rated using z-score in accordance with iso 13528:2015 [3]. the target standard deviation for the ilc assessment ( $\sigma_{pt}$ ), for all measurands was calculated based on previous ilc03/04 2014 exercises [4] for spiked solutions and using the robust reproducibility standard deviation for the migration exercise on tableware. **performance of statistical methods proposed in iso guide ...** - homogeneity in iso guide 35:2005, in iso 13528:2005 and in iupac international harmonized protocol for the proficiency testing of analytical chemistry laboratories (2006). data were simulated by the box-muller transformation, with normal distribution. sets of twenty data were **importance of proficiency testing/interlaboratory comparison** - as per iso 13528, it is the ratio between the deviation of each individual result from the assigned value, and the standard deviation for proficiency assessment  $sd_{pa}$ . how do i interpret the z-score? what to do with unsatisfactory results? iso/iec 17025 management requirements ... **general conditions to participate to interlaboratory ...** - general conditions to participate to interlaboratory intercomparisons 01/2018 1 scope compalab, 16 rue victor hugo, f-93110 rosny-sous-bois, sasu registered 799855721 rcs bobigny, organises interlaboratory comparisons to evaluate the capacity of the participants to perform identified tests, in accordance iso 13528 and iso/iec 17043 standards. **vitamin a new new - aoac international** - result statistics follow iso 13528. participants can test for as many nutrients as needed. enroll now to be a part of the next shipment. to enroll visit aoac or contact staff at lptp@aoac new new vitamin a vitamin d vitamin e vitamin k1 water soluble vitamins oil soluble vitamins vitamin c vitamin b1 vitamin b2 vitamin b3 vitamin b12 **interlaboratory trial for validation of iso 16308 - ineris** - interlaboratory trial for validation of iso 16308 final report drc-13-136930-06836b december, 2013 céline ferret/bénédicte lepot characterization of the environment department chronic risks division drc-13-136930-06836b this report relates only to the objects or products tested. **performance of laboratories undertaking voc in air ...** - 0.3 x  $sd_{pa}$  (iso 13528) • sample 12  $sd_{pa} = 7.5 \%$  • therefore stability must be ... national ambient air monitoring conference, st. louis, missouri, august 10, 2016, performance of laboratories undertaking voc in air analysis using thermal desorption created date: **tutorial on the statistical basis of ace-pt inc.'s ...** - determined in accordance with clause 7.7 "consensus value from participants" of iso 13528:2015, using the iterative algorithm (the so-called "algorithm a") detailed in appendix c .3 of the iso 13528:2015 standard. using the "iso 13528 algorithm a",  $x^*$ ,  $s^*$  and, u. x, are calculated for each rf frequency in each pt data set. **report of the second interlaboratory - european commission** - report of the second interlaboratory comparison organised by the community reference laboratory for heavy metals in

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feed and food total cd, pb and hg in mineral water m.b. de la calle, p. robouch, s. bynens, j. van de kreeke, p. taylor eur 22870 en - 2007 **table of contents - aihapat** - iso/iec 13528:2015 — statistical methods for use in proficiency testing by interlaboratory comparison 4 definitions definitions in iso 17043 apply. 5 beryllium proficiency analytical testing pt scheme 5.1 objectives of the pt scheme the objective of this pt scheme is to allow participants to demonstrate their ability to correctly ... **interlaboratory proficiency test 06/2015 - helda** - carried out in accordance with the international guidelines iso/iec 17043 [1], iso 13528 [2] and iupac technical report [3]. the proftest syke has been accredited by the finnish accreditation service as a proficiency testing provider (pt01, iso/iec 17043, ... interlaboratory proficiency test 06/2015 **use of interlaboratory comparison data by laboratories ...** - [1] iso/iec 17043, conformity assessment – general requirements for proficiency testing, 2010 [2] iso 13528, statistical methods for use in proficiency testing by interlaboratory comparisons, 2005 [3] iupac, the international harmonized protocol for the proficiency testing of analytical chemistry laboratories, **scope of accreditation to iso/iec 17043:2010** - scope of accreditation to iso/iec 17043:2010 new york state department of health wadsworth center biggs laboratory, wadsworth center nys department of health, empire state plaza, d224 ... participants – using statistical methods described in iso 13528 and the iupac international harmonized protocol, and with consideration of the effects of ... **solid state lighting annex: 2013 interlaboratory comparison** - solid state lighting annex 2013 interlaboratory comparison final report this report was prepared by international energy agency 4e solid state lighting annex task 2 and task 3. ... iso 13528) and en numbers (defined in iso 13528 and iso/iec 17043) are all presented, and problems and **south african national standard - sabs webstore** - south african national standard statistical methods for use in proficiency testing by interlaboratory comparisons. this national standard is the identical implementation of iso 13528:2005 and is adopted with the permission of the international organization for standardization. published by sabs standards division ... **use of interlaboratory comparison data by laboratories ...** - [1] iso/iec 17043:2010, conformity assessment –general requirements for proficiency testing [2] iso 13528:2015, statistical methods for use in proficiency testing by interlaboratory comparisons [3] iupac, the international harmonized protocol for the proficiency testing of analytical chemistry laboratories, pure appl. chem., 78 (2006), 145 - 196 **proficiency testing and interlaboratory comparisons in ...** - according to iso/iec 17025:2005 a laboratory shall have quality control procedures for monitoring the validity of test and calibration undertaken. this monitoring may include the participation in interlaboratory comparisons or proficiency testing programmes but also other means e.g. calibrations using the same or different methods. **consideration for evaluation method of proficiency test ...** - table ii interpretation of z-score specified in iso 13528 the criteria (a), (b) and (c) indicated in table iii are applied to evaluation of z-score. the criteria (d) and (e) are applied to evaluation of deviation from the median value. **this document is a preview generated by evs** - the committee responsible for this document is iso/tc 69, applications of statistical methods, subcommittee sc 6, measurement methods and results. this second edition of iso 13528 cancels and replaces the first edition (iso 13528:2005), of which it constitutes a technical revision. this second edition provides changes to bring the document into

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