Quality Assurance Challenges of Measurements from Field to Laboratory

Breakout session on compliance assessment

Convenors: S. Ellison and B. Magnusson

Upper control limit

(1) Measured value above limit; limit outside uncertainty interval
(2) Measured value above limit; limit within uncertainty interval
(3) Measured value at limit; limit within uncertainty interval
(4) Measured value below limit; limit within uncertainty interval
(5) Measured value below limit; limit outside uncertainty interval

Questions for discussion forum on Compliance and MU

- Recognising consumer risk
- Interpretation
  - With and without process information
- Take-up of Eurachem Compliance guide
- Need for additional guidance

- Addressed using online polling & discussion of responses
Does your laboratory report conformity assessment results?

- Rarely or not at all / 4
- Sometimes / 16
- Very Often / 6

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Is this rule a risk for the PRODUCER or the CUSTOMER? / 22%

- Nickel limits for jewellery
  - Limit 0.5 μg / cm² / week
  - 0.5 μg / cm² / week

Rule: Accept when Result < 0.88 μg / cm² / week
What is the most likely interpretation? What is the most likely interpretation? 

NOT compliant / არ 
შეერთებულია 96% 

A measurement error / გაფრთხილებული 4% 

Compliant / შეერთებულია 4% 

None of the above / არ ფჩნდა რაიმე 4% 

Process distribution 

What is the most likely interpretation? 

NOT compliant / არ 
შეერთებულია 73% 

A measurement error / გაფრთხილებული 19% 

Compliant / შეერთებულია 4% 

None of the above / არ ფჩნდა რაიმე 4%
Have you read the new (2021) Eurachem guide on compliance?

- Not at all / ჰორამი / რადგან არ ვთქვათ 4
- Very little / მდინარე არ მხოვრი 7
- Some / რამდენად მხოვრი 5
- Quite a lot / ძირითად მხოვრი 6
- A great deal / ძირითად მხოვრი 4

What specific issues need more guidance?

- How to assess the validity of estimated measurement uncertainty
- Risk calculation
- Compliance near detection limit
- Multiple parameter compliance assessment
- IQ in microbiology (including sampling)
- ILAC-G8 or other similar
- Risk calculation
- Information in my own language

How to assess the compatibility between estimated measurement uncertainty and test quality control (quality control criteria cannot be wider than MU)
- How to set limits
- Asymmetric distributions
- More practical examples in case of tolerance range limits (for instance active substance conc in products as...
What did you think of the discussion session?
თქვენ ფუნქციონალი დიაგრამას განათავსებთ?