



Proficiency Testing Program
Organised by
Center for Laboratory Proficiency Testing
Department of Science Service,
Ministry of Higher Education, Science, Research and Innovation, Thailand
Total Kjeldahl Nitrogen (TKN) in water
PTEN - W10 - 2101
15 July 2021
SUMMARY SHEET

Laboratory Name : Technical Training and Support Service,
Center for Scientific and Technological Equipment,
Walailak University

Laboratory Code : W10 - 2101 - 032

Sample	Number of results	Assigned value (x_{pt}) (mg/L)	Standard deviation for proficiency assessment (σ_{pt}) (mg/L)	Lab's result (mg/L)		z-score
				Value	MU	
A	95	39.27	3.93	34.1	-	-1.32
B	94	68.02	6.80	58.0	-	-1.47

Note

1. Assigned values (x_{pt}) are the robust averages of the participant results in this round, calculated by using Algorithm A (ISO 13528: 2015).
2. Standard deviations for proficiency assessment (σ_{pt}) are the target standard deviations by perception from expert judgement.
3. MU are measurement uncertainties at 95% confidence level.
4. Each z-score marked with "A" is an outlier ($|z| \geq 3.0$). Therefore, laboratory which is marked with "A" shall investigate the result. Laboratory is also encouraged to review the result which has an absolute z-score value between two and three ($2.0 < |z| < 3.0$) marked with "W".
5. This summary sheet shall be read in conjunction with the final report.

Reported by

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