



Proficiency Testing Program
Organised by
Center for Laboratory Proficiency Testing
Department of Science Service,
Ministry of Science and Technology, Bangkok, Thailand
* Metals (As, Cd, Cu, Fe, Pb and Zn) in Beverage (pilot study)
PTFF - BV02 - 1801
31 August 2018
SUMMARY SHEET

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

Laboratory Code : BV02 - 1801 - 019

Test items	Number of results	Assigned value (x_{pt})	Standard deviation for proficiency assessment (σ_{pt})	Lab's result		z-score
				Value	MU	
Arsenic, As (mg/kg)	34	0.897	0.135	0.767	-	-0.96
Cadmium, Cd (mg/kg)	38	0.905	0.136	0.778	-	-0.93
Copper, Cu (mg/kg)	40	0.934	0.140	0.958	-	0.17
Iron, Fe (mg/kg)	37	1.108	0.166	0.972	-	-0.82
Lead, Pb (mg/kg)	41	0.908	0.136	0.806	-	-0.75
Zinc, Zn (mg/kg)	37	0.969	0.145	1.024	-	0.38

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 from previous rounds and expert judgement.
3. 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".
4. This summary sheet shall be read in conjunction with the final report.

Reported by

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