

Rijkswaterstaat

Rijksinstituut voor Integraal Zoetwaterbeheer en Afvalwaterbehandeling RIZA



Laboratoriumevaluerend onderzoek;

Project 205 - Uitgebreid pakket Organisch in Waterbodem -07 mei 2001

Deel 1: Prestatie-evaluatie

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H.J. de la Paz
D.J. Gaastra
H. Postma-Stiksma

Datum	26 juli 2001
Afdeling	IMLK
Werkdocumentnr:	2001.015x



Rijkswaterstaat

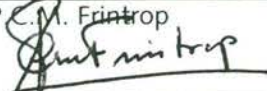
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Afdeling	IMLK	Accoord namens hoofd IMLK:
Datum	23 februari 2001	Drs P. C. M. Frintrop
		

INHOUDSOPGAVE

1. DOEL VAN HET ONDERZOEK	7
2. OPZET VAN HET ONDERZOEK	7
3. GEGEVENSVERWERKING	7
4. DEELNEMERS.....	9
5. LABORATORIUM EVALUATIE.....	11
6. SAMENVATTING	21
7. STATISTISCHE EVALUATIE	25

1. DOEL VAN HET ONDERZOEK

Het doel van dit onderzoek is tweeledig:

1. Prestatie-evaluerend, de resultaten van de deelnemende laboratoria worden ten opzichte van elkaar beoordeeld, met als doel het bevorderen van vergelijkbare resultaten afkomstig van verschillende laboratoria.
2. Vaststelling juistheid, de resultaten van de deelnemende laboratoria worden beoordeeld ten opzichte van de theoretische waarde van de geanalyseerde parameter.

Met de resultaten van het prestatie-evaluerend en juistheids onderzoek kunnen laboratoria gericht acties initiëren ter verbetering van de eigen analyses. Hierdoor zal op langere termijn de vergelijkbaarheid en juistheid van analysesresultaten toenemen.

2. OPZET VAN HET ONDERZOEK

Voor dit project hebben zich 20 laboratoria opgegeven. Op bovengenoemde datum ontvingen de laboratoria 4 monsters waterbodem (nat) en 1 standaard (droog). De bereiding van de monsters wordt beschreven in hoofdstuk 8. Met de monsters ontvingen de laboratoria een toelichting op onderzoek en een lijst met methode-informatiecodes, zie respectievelijk hoofdstuk 11 en 13.

3. GEGEVENSVERWERKING

3.1 Prestatie-evaluerend onderzoek

De analyse-uitkomsten zijn statistisch verwerkt, analoog aan de internationale norm ISO 5725-2. In deze norm wordt het model beschreven voor de bepaling van de herhaalbaarheid en de reproduceerbaarheid van een meetmethode middels een uniform-level experiment. Per job (parameter/monsterset combinatie) worden de resultaten naar opklimmende grootte vermeld, tezamen met de relevante monsternummers.

Het minimum aantal laboratorium-resultaten (waarnemingen voor een parameter /monsterset combinatie) dat aanwezig moet zijn om een statistische analyse op uit te voeren is gezet op 5. Bij minder dan 5 waarnemingen wordt geen evaluatie uitgevoerd. Bij de statistische verwerking van de resultaten wordt wanneer een toetsing plaatsvindt, een onbetrouwbaarheid in acht genomen van 1%.

Voordat een dataset statistisch wordt verwerkt, wordt getoetst of de resultaten van de laboratoria afkomstig zijn van een normaal verdeelde dataset. Hiervoor wordt de Kolmogorov-Smirnov (KS) toets gebruikt, met als nulhypothese dat de dataset normaal verdeeld is. Indien de nulhypothese niet wordt verworpen, wordt de dataset verder statistisch verwerkt. In het geval dat de KS-toets op normaliteit als resultaat heeft dat de resultaten afkomstig zijn van een niet normale verdeling, dan worden de laboratoriumresultaten logaritmisches getransformeerd en nogmaals getoetst op (log)normaliteit. Van deze laatste toets wordt slechts de uitslag gepresenteerd. In verband met een zinvolle KS-toetsing, moeten grove uitschieters, die normaal via de Grubbs toets zouden worden verwijderd, nu handmatig worden verwijderd. Gebeurt dit niet, dan wordt ten onrechte de nulhypothese verworpen.

Het verwijderen van grove uitschieters, meestal resultaten in een andere eenheid dan binnen het ringonderzoek gevraagd gerapporteerd, gebeurt in de praktijk door de resultaten eerst een keer als zodanig te laten verwerken door de programmatuur, waarna een screening plaatsvindt van de ruwe gegevens en de voorlopige statistische verwerking. Hierna vindt aan de hand hiervan een expert-judgement plaats, worden laboratoria benaderd om hun resultaten nogmaals te herzien en vindt eventuele correctie of verwijdering van resultaten plaats. Hierna worden de resultaten opnieuw getoetst.

Na het uitvoeren van de toets op normaliteit worden de analyse-uitkomsten van de laboratoria getoetst op extreme waarnemingen. Hiervoor wordt de desbetreffende dataset getoetst volgens Cochran (voor herhaalbaarheid) en volgens Grubbs (voor reproduceerbaarheid). Van de overgebleven waarnemingen worden het rekenkundig gemiddelde en de standaard-afwijkingen van de herhaalbaarheid (Sr), de tussenlaboratoriumspreiding (SL) en reproduceerbaarheid (SR) berekend.

Na het berekenen van de statistische kengrootheden worden de waarnemingen vervolgens geklasseerd op grond van hun ligging van het rekenkundig gemiddelde, behoudens die welke zijn verwijderd middels de Cochran en Grubbs test.

De klassificering vindt plaats in klassen met behulp van de standaarddeviatie voor de klassering (S_k) op basis van de standaarddeviatie van de reproduceerbaarheid, gecorrigeerd voor het aantal replica's (zie hoofdstuk 12). De resultaten worden per job-verwerking grafisch weergegeven naar opklimmend laboratoriumgemiddelde, laboratoria welke zijn herkend als zijnde een uitbijter worden niet weergegeven. In de eerste grafiek worden de resultaten weergegeven in een zogenaamde high-low graph, waarbij als uitersten het gemiddelde plus/min eenmaal de standaarddeviatie wordt genomen. In de tweede grafiek wordt de samenhang van de gemiddelden van de individuele laboratoria duidelijk. Hierin worden de gemiddelden van de laboratoria verbonden met een lijn, waarbij tevens in de grafiek het generieke gemiddelde met plus/min een of tweemaal de standaarddeviatie van de reproduceerbaarheid wordt weergegeven.

3.2 Juistheids-evaluerend onderzoek

Het juistheids-evaluerend onderzoek is, afhankelijk van de in het interlaboratoriumonderzoek gevraagde parameters, gebaseerd op een tweetal opties:

1. De analyse-uitkomsten van watermonsters waaraan een bekende additie is uitgevoerd en analyse-uitkomsten van blanco water-monsters. De analyse-uitkomsten van de water-monsters met additie worden ook gebruikt voor het prestatie-evaluerend onderzoek.

Opmerking: De resultaten van de blanco-monsters worden niet geëvalueerd naar prestatie, omdat de datasets zeer waarschijnlijk niet normaal verdeel zijn. De door het RIZA toegepaste statistiek is daarvoor niet toereikend.

2. De analyse-uitkomsten van standaarden. Deze standaarden worden, indien beschikbaar, bereid met behulp van gecertificeerde referentiematerialen.

Voor het juistheids-onderzoek wordt de dataset van analyse-resultaten niet eerst statistisch verwerkt volgens de werkwijze zoals vermeld in 3.1. Alle analyse-resultaten worden getoetst, met uitzondering van kleiner of groter dan resultaten. Een toetsingsresultaat van een deelnemend laboratorium wordt, in geval van optie 1, verkregen uit het verschil van het gemiddelde resultaat met additie en zonder additie.

De klassering van een deelnemend laboratorium vindt plaats op basis van een berekende z-score uit het toetsingsresultaat, de theoretische concentratie en een standaard-deviatie. De standaard deviatie wordt verkregen uit het quotiënt van het analyseresultaat van het monster met additie en een percentage.

Dit percentage is afhankelijk van het soort parameter en als volgt vastgesteld:

- | | | |
|-----------------------------|------|---|
| 1. Anorganische parameters: | 12.5 | % |
| 2. Organische parameters: | 25 | % |

4. DEELNEMERS

Alcontrol
Analytico
Centraal Laboratorium ZHEW
DWR
GTD
Hoogheemraadschap van Rijnland
Inst. Scientifique Service Public
Laboratorium Uitwaterende Sluizen
Laboratorium Zeeuwse Waterschappen
OMEGAM
RIZA Lelystad
SGS Laboratory Services
TNO Milieu, Energie en Procesinnovatie
VMM Gent
Waterschap Groot Salland
Waterschap Hunze en Aa's
Waterschap Regge en Dinkel
Wetterskip Fryslan
Zuiveringschap Limburg
Zuiveringsschap Rivierenland

Hoogvliet
Barneveld
Rotterdam
Amsterdam
Boxtel
Leiden
Liege
Edam
Sluiskil
Amsterdam
Lelystad
's-Gravenpolder
Apeldoorn
Gent
Zwolle
Assen
Almelo
Leeuwarden
Roermond
Tiel

Dhr. M. Groenewegen
Dhr. Dr. G.J. Kreuning
Mevr. J.C.P. Vork
Dhr. W.A.J. van den Berg
Dhr. M. van Strien
Mevr. A.A.M. de Groot
Dhr. P. van Damme
Dhr. E. van Bavel
Mevr.drs. E.M.A. Verbraeken-Lambert
Mevr. Ing. L.J. Landwehr Johann
Dhr. L. van der Velde
Dhr. W. Kok
Dr. R.J.B. Peters
Mevr. I. Temmerman
Dhr. H. van den Berg
Dhr. R. Dilling
Dhr. B. Eshuis
Dhr. ing. R. Herweyer
Mevr. ing. E. Trines-Bongers
Dhr. ing. J. van Rooij

5. LABORATORIUM EVALUATIE

Algemeen:

Het rapport bestaat uit twee delen.

Deel 1 bevat de prestatie-evaluatie

Deel 2 bevat de resultaten van het Juistheidsonderzoek, Homogeniteitsonderzoek en Stabiliteitsonderzoek. Dit zal apart gerapporteerd worden.

5.1 Prestatie-evaluatie

De analyse-uitkomsten zijn, aan de hand van de klassering beschreven onder paragraaf 3.1, opgenomen in het hierna volgende overzicht laboratoriumevaluatie. Uitgangspunt voor deze klassering is de vergelijkbaarheid van laboratoria. Laboratoria, waarvan een of meer analyse-uitkomsten worden geëlimineerd op grond van de Grubbs-test en/of waarvan de analyse-uitkomsten in de C-klasse terechtkomen, wordt met nadruk aangeraden zelf na te gaan of er sprake is van systematische afwijkingen. Ook deelnemers die niet onder deze categorie vallen wordt aangeraden zelf hun uitkomsten op systematische afwijkingen te onderzoeken: een score van meerdere B's voor een parameter bijvoorbeeld kan eveneens wijzen op systematische afwijkingen.

Voor een groot aantal van de parameters geldt dat het aantal evalueerbare resultaten van deelnemers kleiner is dan 5.

5.2 Juistheids-evaluatie

De analyse-uitkomsten zijn, aan de hand van de klassering beschreven onder punt 3.2, opgenomen in het hierna volgende overzicht laboratoriumevaluatie. Uitgangspunt voor deze klassering is de juistheid van het analyseresultaat van een deelnemer ten opzichte van de werkelijke concentratie in de apart aangeboden standaard.

Dataset	1	2	3	4	5	6	7	8
Parameter	Ace	Acy	Ant	BaA	BaP	BbF	BghiP	BkF
1	A	-	B	A	A	A	B	A
2	A	-	A	B	A	A	A	A
3	B	-	B	B	A	C	B	B
4	A	-	A	A	A	A	A	A
5	A	-	A	A	A	A	A	B
6	A	-	B	B	A	A	B	A
7	A	-	A	A	B	A	A	A
8	G	-	A	A	A	A	B	A
9	A	-	A	A	C	A	A	A
10	A	-	C	W	W	W	B	W
11	A	-	A	A	A	A	A	A
12	A	-	A	A	A	C	A	A
13	G	-	G	G	G	G	G	G
14	G	-	A	B	B	G	A	C
15	G	-	G	G	G	G	G	G
16	G	-	B	A	A	A	A	A
17	C	-	A	A	A	A	B	A
18	G	-	G	G	G	G	G	G
19	B	-	A	A	B	A	A	B
20	G	-	G	G	G	G	G	G

Legenda:

* klasse A: resultaten binnen 1 SK vanaf het gemiddelde

* klasse B: resultaten tussen 1 SK en 2 SK vanaf het gemiddelde

* klasse C: resultaten tussen 2 SK en 3 SK vanaf het gemiddelde

* klasse D: resultaten verder dan 3 SK vanaf het gemiddelde

* W : verworpen door Cochran-test

* R : verworpen door Grubbs-test

* N : niet statistisch verwerkt

* G : Verworpen door KS, handmatig, geen resultaat of resultaat = 0

Dataset	9	10	11	12	13	14	15	16
Parameter	Chr	DBahA	DW	Flu	Flur	InP	Naf	PAK10
1	A	A	A	B	A	B	A	G
2	A	B	A	B	A	A	A	G
3	B	B	A	B	A	B	B	C
4	A	A	B	A	A	A	A	A
5	A	A	R	A	W	B	G	A
6	A	A	A	A	A	A	A	A
7	A	B	R	A	A	A	A	A
8	B	B	B	W	A	B	A	A
9	B	A	A	A	W	A	A	A
10	W	B	A	W	B	C	A	W
11	A	A	B	A	A	A	A	A
12	A	A	B	A	B	A	C	B
13	G	G	G	G	G	G	G	G
14	B	G	B	C	G	A	B	B
15	G	G	G	G	G	G	G	G
16	A	B	G	A	G	B	G	G
17	C	A	A	A	C	A	A	A
18	G	G	G	G	G	G	G	G
19	A	B	A	A	A	A	A	G
20	G	G	G	G	G	G	G	G

Legenda:

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* G : Verworpen door KS, handmatig, geen resultaat of resultaat = 0

Dataset	17	18	19	20	21	22	23	24
Parameter	Phen	Pyr	44DDD	bHCH	44DDE	cHCH	44DDT	1234TCB
1	A	A	B	-	B	-	-	-
2	A	B	R	-	B	-	-	-
3	B	A	R	-	B	-	-	-
4	A	A	G	-	G	-	-	-
5	A	A	A	-	B	-	-	-
6	A	A	G	-	G	-	-	-
7	A	C	A	-	A	-	-	-
8	A	A	G	-	G	-	-	-
9	A	A	A	-	A	-	-	-
10	B	W	G	-	A	-	-	-
11	A	A	A	-	A	-	-	-
12	B	A	B	-	A	-	-	-
13	G	G	G	-	G	-	-	-
14	A	G	G	-	G	-	-	-
15	G	G	G	-	G	-	-	-
16	B	A	G	-	G	-	-	-
17	A	A	G	-	G	-	-	-
18	G	G	G	-	A	-	-	-
19	A	B	G	-	G	-	-	-
20	G	G	G	-	G	-	-	-

Legenda:

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* R : verworpen door Grubbs-test

* N : niet statistisch verwerkt

* G : Verworpen door KS, handmatig, geen resultaat of resultaat = 0

Dataset	25	26	27	28	29	30	31	32
Parameter	dHCH	Diel	1235TCB	DW	End	aEnd	aHCH	HCb
1	-	-	-	A	-	-	-	B
2	-	-	-	A	-	-	-	A
3	-	-	-	B	-	-	-	A
4	-	-	-	A	-	-	-	B
5	-	-	-	R	-	-	-	A
6	-	-	-	A	-	-	-	A
7	-	-	-	R	-	-	-	A
8	-	-	-	B	-	-	-	R
9	-	-	-	A	-	-	-	A
10	-	-	-	A	-	-	-	C
11	-	-	-	A	-	-	-	A
12	-	-	-	B	-	-	-	A
13	-	-	-	G	-	-	-	G
14	-	-	-	A	-	-	-	G
15	-	-	-	G	-	-	-	G
16	-	-	-	G	-	-	-	G
17	-	-	-	G	-	-	-	G
18	-	-	-	B	-	-	-	A
19	-	-	-	A	-	-	-	G
20	-	-	-	G	-	-	-	G

Legenda:

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* N : niet statistisch verwerkt

* G : Verworpen door KS, handmatig, geen resultaat of resultaat = 0

Dataset	33	34	35	36	37	38	39	40
Parameter	HCBd	HCEa	HepC	Hepo	Ald	Isd	1245TCB	24DDD
1	A	-	-	-	-	-	-	-
2	G	-	-	-	-	-	-	-
3	G	-	-	-	-	-	-	-
4	G	-	-	-	-	-	-	-
5	A	-	-	-	-	-	-	-
6	G	-	-	-	-	-	-	-
7	A	-	-	-	-	-	-	-
8	C	-	-	-	-	-	-	-
9	G	-	-	-	-	-	-	-
10	A	-	-	-	-	-	-	-
11	A	-	-	-	-	-	-	-
12	B	-	-	-	-	-	-	-
13	G	-	-	-	-	-	-	-
14	G	-	-	-	-	-	-	-
15	G	-	-	-	-	-	-	-
16	G	-	-	-	-	-	-	-
17	G	-	-	-	-	-	-	-
18	A	-	-	-	-	-	-	-
19	G	-	-	-	-	-	-	-
20	G	-	-	-	-	-	-	-

Legenda:

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* klasse D: resultaten verder dan 3 SK vanaf het gemiddelde

* W : verworpen door Cochran-test

* R : verworpen door Grubbs-test

* N : niet statistisch verwerkt

* G : Verworpen door KS, handmatig, geen resultaat of resultaat = 0

Dataset	41	42	43	44	45	46	47	48
Parameter	PCB101	PCB118	PCB138	PCB153	PCB180	PCB28	PCB52	24DDE
1	A	A	A	A	A	A	A	-
2	A	A	B	C	A	B	B	-
3	A	B	A	B	A	A	A	-
4	B	A	A	A	B	B	A	-
5	B	B	A	A	A	A	A	-
6	A	A	A	A	A	A	A	-
7	A	A	A	A	A	A	A	-
8	W	W	W	W	W	W	W	-
9	A	B	B	A	A	B	B	-
10	A	B	B	A	B	A	A	-
11	B	A	A	A	A	B	B	-
12	B	B	B	B	B	G	B	-
13	G	G	G	G	G	G	G	-
14	G	G	G	G	G	G	G	-
15	G	G	G	G	G	G	G	-
16	G	G	G	G	G	G	G	-
17	G	G	G	G	G	G	G	-
18	B	A	A	A	B	A	A	-
19	G	G	G	G	G	G	G	-
20	G	G	G	G	G	G	G	-

Legenda:

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* klasse B: resultaten tussen 1 SK en 2 SK vanaf het gemiddelde

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* klasse D: resultaten verder dan 3 SK vanaf het gemiddelde

* W : verworpen door Cochran-test

* R : verworpen door Grubbs-test

* N : niet statistisch verwerkt

* G : Verworpen door KS, handmatig, geen resultaat of resultaat = 0

Dataset	49	50	51	52	53	54	55	56
Parameter	24DDT	QCB	Tot PCB	BkF	Naf	BaP	PAK10	Flu
1	-	A	A	B	B	C	G	B
2	-	G	G	A	A	A	G	A
3	-	A	A	B	G	B	B	A
4	-	G	A	B	A	A	A	A
5	-	B	A	B	G	B	B	A
6	-	G	A	A	A	A	A	A
7	-	A	A	A	A	A	A	A
8	-	W	W	A	G	A	A	A
9	-	G	B	A	A	B	A	A
10	-	B	A	A	A	B	B	A
11	-	R	A	B	G	A	B	A
12	-	G	C	A	B	A	A	A
13	-	G	G	G	G	G	G	G
14	-	G	G	A	B	A	B	C
15	-	G	G	G	G	G	G	G
16	-	G	G	B	G	A	G	B
17	-	G	G	B	A	A	B	A
18	-	B	A	G	G	G	G	G
19	-	G	G	A	A	A	G	A
20	-	G	G	G	G	G	G	G

Legenda:

* klasse A: resultaten binnen 1 SK vanaf het gemiddelde

* klasse B: resultaten tussen 1 SK en 2 SK vanaf het gemiddelde

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* N : niet statistisch verwerkt

* G : Verworpen door KS, handmatig, geen resultaat of resultaat = 0

Dataset	57	58	59	60	61	62	63	64
Parameter	Ant	Flur	Chr	BbF	DBahA	Ace	BghiP	Phen
1	A	A	B	B	A	A	A	A
2	A	G	A	A	B	G	A	A
3	A	G	A	A	C	G	B	B
4	A	A	A	A	A	A	A	A
5	A	G	A	A	A	G	C	A
6	G	G	A	A	G	G	B	A
7	A	A	A	A	A	G	A	A
8	G	G	A	A	G	G	A	A
9	B	A	A	A	A	G	A	B
10	A	A	C	B	A	A	A	A
11	G	G	A	A	G	G	A	A
12	C	B	A	C	A	A	A	C
13	G	G	G	G	G	G	G	G
14	A	G	A	G	G	G	A	A
15	G	G	G	G	G	G	G	G
16	R	G	B	B	A	G	A	C
17	A	B	B	A	A	A	A	A
18	G	G	G	G	G	G	G	G
19	A	B	B	A	A	B	A	A
20	G	G	G	G	G	G	G	G

Legenda:

* klasse A: resultaten binnen 1 SK vanaf het gemiddelde

* klasse B: resultaten tussen 1 SK en 2 SK vanaf het gemiddelde

* klasse C: resultaten tussen 2 SK en 3 SK vanaf het gemiddelde

* klasse D: resultaten verder dan 3 SK vanaf het gemiddelde

* W : verworpen door Cochran-test

* R : verworpen door Grubbs-test

* N : niet statistisch verwerkt

* G : Verworpen door KS, handmatig, geen resultaat of resultaat = 0

Dataset	65	66	67	68				
Parameter	BaA	Pyr	InP	Acy				
1	B	A	B	-				
2	A	A	A	-				
3	A	B	A	-				
4	B	A	A	-				
5	A	A	B	-				
6	B	A	A	-				
7	A	A	A	-				
8	A	A	A	-				
9	A	A	A	-				
10	B	A	C	-				
11	A	A	A	-				
12	A	A	A	-				
13	G	G	G	-				
14	A	G	A	-				
15	G	G	G	-				
16	B	B	B	-				
17	A	C	A	-				
18	G	G	G	-				
19	A	A	B	-				
20	G	G	G	-				

Legenda:

* klasse A: resultaten binnen 1 SK vanaf het gemiddelde

* klasse B: resultaten tussen 1 SK en 2 SK vanaf het gemiddelde

* klasse C: resultaten tussen 2 SK en 3 SK vanaf het gemiddelde

* klasse D: resultaten verder dan 3 SK vanaf het gemiddelde

* W : verworpen door Cochran-test

* R : verworpen door Grubbs-test

* N : niet statistisch verwerkt

* G : Verworpen door KS, handmatig, geen resultaat of resultaat = 0

6. SAMENVATTING

Samenvatting van de resultaten van 205, 07 mei 2001.
Uitgebreid pakket Organisch in Waterbodem.

Job	Param	Man	W	R	N	Mean	Sr	%	SR	%	SR/Sr
1	Ace		0	0	13	0.239088	0.065180	27.26	0.153776	64.32	2.3593
2	Acy		0	0	0	-	-	-	-	-	-
3	Ant		0	0	16	0.703500	0.042420	6.03	0.119388	16.97	2.8144
4	BaA		1	0	15	0.977383	0.051634	5.28	0.103153	10.55	1.9978
5	BaP		1	0	15	0.963063	0.054223	5.63	0.125750	13.06	2.3191
6	BbF		1	0	14	1.109793	0.052430	4.72	0.163625	14.74	3.1208
7	BghiP		0	0	16	0.658044	0.047934	7.28	0.117009	17.78	2.4410
8	BkF		1	0	15	0.529810	0.023890	4.51	0.060579	11.43	2.5357
9	Chr		1	0	15	0.978103	0.047899	4.90	0.188220	19.24	3.9295
10	DBahA		0	0	15	0.133727	0.011069	8.28	0.041231	30.83	3.7249
11	DW		0	2	13	46.022600	0.341644	0.74	0.357465	0.78	1.0463
12	Flu		2	0	14	1.873021	0.088036	4.70	0.243225	12.99	2.7628
13	Flur		2	0	12	0.202950	0.009090	4.48	0.080108	39.47	8.8128
14	InP		0	0	16	0.739075	0.058122	7.86	0.152516	20.64	2.6241
15	Naf		0	0	14	0.366536	0.019879	5.42	0.171980	46.92	8.6513
16	PAK10		1	0	11	8.571655	0.410008	4.78	0.890729	10.39	2.1725
17	Phen		0	0	16	0.985081	0.073363	7.45	0.214517	21.78	2.9240
18	Pyr		1	0	14	1.429846	0.076273	5.33	0.140478	9.82	1.8418
19	44DDD		0	2	6	2.725000	0.849951	31.19	0.849951	31.19	1.0000
20	bHCH		0	0	0	-	-	-	-	-	-
21	44DDE		0	0	10	6.551650	0.919690	14.04	2.059014	31.43	2.2388
22	cHCH		0	0	0	-	-	-	-	-	-
23	44DDT		0	0	0	-	-	-	-	-	-
24	1234TCB		0	0	0	-	-	-	-	-	-
25	dHCH		0	0	0	-	-	-	-	-	-
26	Diel		0	0	0	-	-	-	-	-	-
27	1235TCB		0	0	0	-	-	-	-	-	-
28	DW		0	2	13	46.152312	0.430479	0.93	0.456844	0.99	1.0612
29	End		0	0	0	-	-	-	-	-	-
30	aEnd		0	0	0	-	-	-	-	-	-
31	aHCH		0	0	0	-	-	-	-	-	-
32	HCb		0	1	12	17.907792	8.313207	46.42	8.647186	48.29	1.0402
33	HCbd		0	0	8	8.761250	1.351675	15.43	6.343306	72.40	4.6929
34	HCEa		0	0	0	-	-	-	-	-	-
35	HepC		0	0	0	-	-	-	-	-	-
36	Hepo		0	0	0	-	-	-	-	-	-
37	Ald		0	0	0	-	-	-	-	-	-
38	Isd		0	0	0	-	-	-	-	-	-
39	1245TCB		0	0	0	-	-	-	-	-	-
40	24DDD		0	0	0	-	-	-	-	-	-
41	PCB101		1	0	12	45.450833	6.467916	14.23	12.997996	28.60	2.0096
42	PCB118		1	0	12	29.441667	5.737892	19.49	9.763885	33.16	1.7017
43	PCB138		1	0	12	30.677500	5.986080	19.51	9.977653	32.52	1.6668
44	PCB153		1	0	12	42.376250	9.028985	21.31	15.918434	37.56	1.7630
45	PCB180		1	0	12	19.819167	2.595785	13.10	3.868392	19.52	1.4903
46	PCB28		1	0	11	77.149545	11.73232	15.21	22.878204	29.65	1.9500
47	PCB52		1	0	12	42.824583	2	14.18	11.053298	25.81	1.8206
48	24DDE		0	0	0	-	6.071252	-	-	-	-
49	24DDT		0	0	0	-	-	-	-	-	-
50	QCB		1	1	6	5.040833	-	3.36	0.819454	16.26	4.8385
51	Tot PCB		1	0	11	275.81818	0.169361	16.10	78.241750	28.37	1.7619
52	BkF		0	0	16	2	44.40678	0.00	0.010860	11.51	-
53	Naf		0	0	11	0.094353	7	0.00	0.035092	51.48	-
54	BaP		0	0	16	0.068170	0.000000	0.00	0.026440	19.97	-
55	PAK10		0	0	12	0.132375	0.000000	0.00	0.166879	12.95	-
56	Flu		0	0	16	1.288417	0.000000	0.00	0.053543	17.74	-
57	Ant		0	1	12	0.301900	0.000000	0.00	0.006210	17.72	-
58	Flur		0	0	8	0.035045	0.000000	0.00	0.010861	57.96	-
59	Chr		0	0	16	0.018738	0.000000	0.00	0.025972	19.83	-
60	BbF		0	0	15	0.131006	0.000000	0.00	0.033011	15.63	-
61	DBahA		0	0	12	0.211213	0.000000	0.00	0.005781	24.95	-
62	Ace		0	0	6	0.023168	0.000000	0.00	0.027667	89.10	-
63	BghiP		0	0	16	0.031050	0.000000	0.00	0.018716	14.99	-

64	Phen	0	0	16	0.124831	0.000000	0.00	0.035014	26.29	-
65	BaA	0	0	16	0.133176	0.000000	0.00	0.016129	12.85	-
66	Pyr	0	0	15	0.125519	0.000000	0.00	0.071198	28.38	-
67	InP	0	0	16	0.250907	0.000000	0.00	0.021978	14.44	-
68	Acy	0	0	0	0.152169	0.000000	-	-	-	-
					-	0.000000				

Legenda:

Param = gemeten parameter.

Man = het aantal analyse-uitkomsten dat door het RIZA is verwijderd uit de dataset.

W = het aantal analyse-uitkomsten verwijderd door de Cochran-toets op herhaalbaarheid.

R = het aantal analyse-uitkomsten verwijderd door de Grubbs-toets op reproduceerbaarheid.

N = het aantal overgebleven laboratoria.

Value = de werkelijk toegevoegde waarde.

Beschrijving van de verschillende parameters (jobs):

1: Acenafteen, Ace in mg/kg Waterbodem

Waterbodem

2: Acenafteleen, Acy in mg/kg Waterbodem

Waterbodem

3: Antraceen, Ant in mg/kg Waterbodem

Waterbodem

4: Benzo(a)Anthraceen, BaA in mg/kg Waterbodem

Waterbodem

5: Benzo(a)-Pyreen, BaP in mg/kg Waterbodem

Waterbodem

6: Benzo(b)-Fluorantheen, BbF in mg/kg Waterbodem

Waterbodem

7: Benzo[ghi]peryleen, BghiP in mg/kg Waterbodem

Waterbodem

8: Benzo(k)-Fluorantheen, BkF in mg/kg Waterbodem

Waterbodem

9: Chryseen, Chr in mg/kg Waterbodem

Waterbodem

10: Dibenz[a,h]antraceen, DBahA in mg/kg Waterbodem

Waterbodem

11: Droge stof, DW in %/- Waterbodem

Waterbodem

12: Fluorantheen, Flu in mg/kg Waterbodem

Waterbodem

13: Fluoreen, Flur in mg/kg Waterbodem

Waterbodem

14: Indeno[1,2,3-cd]Pyreen, InP in mg/kg Waterbodem

Waterbodem

15: Naftaleen, Naf in mg/kg Waterbodem

Waterbodem

16: Som PAK (10 van VROM), PAK10 in mg/kg Waterbodem

Waterbodem

17: Phenantreen, Phen in mg/kg Waterbodem

Waterbodem

18: Pyreen, Pyr in mg/kg Waterbodem

Waterbodem

19: 44'DDD (p,p'-DDD), 44DDD in ug/kg Waterbodem

Waterbodem

20: beta-HexaChloorcycloHexaan, bHCH in ug/kg Waterbodem

Waterbodem

21: 44'DDE (p,p'-DDE), 44DDE in ug/kg Waterbodem

Waterbodem

22: gamma-HexaChloorcycloHexaan, cHCH in ug/kg Waterbodem

Waterbodem

23: 44'DDT (p,p'-DDT), 44DDT in ug/kg Waterbodem
Waterbodem

24: 1,2,3,4-Tetrachloorbenzeen, 1234TCB in ug/kg Waterbodem
Waterbodem

25: delta-HexaChloorCycloHexaan, dHCH in ug/kg Waterbodem
Waterbodem

26: Dieldrin, Diel in ug/kg Waterbodem
Waterbodem

27: 1,2,3,5-Tetrachloorbenzeen, 1235TCB in ug/kg Waterbodem
Waterbodem

28: Droge stof, DW in %/- Waterbodem
Waterbodem

29: Endrin, End in ug/kg Waterbodem
Waterbodem

30: Endosulfan (alpha), aEnd in ug/kg Waterbodem
Waterbodem

31: alpha-HexaChloorcycloHexaan, aHCH in ug/kg Waterbodem
Waterbodem

32: HexaChloorBenzeen, HCB in ug/kg Waterbodem
Waterbodem

33: HexaChloorButadieen, HCBd in ug/kg Waterbodem
Waterbodem

34: HexaChloorEthaan, HCEa in ug/kg Waterbodem
Waterbodem

35: Heptachloor, HepC in ug/kg Waterbodem
Waterbodem

36: Heptachloorepoxide (isomeer-b), Hepo in ug/kg Waterbodem
Waterbodem

37: Aldrin, Ald in ug/kg Waterbodem
Waterbodem

38: Isodrin, Isd in ug/kg Waterbodem
Waterbodem

39: 1,2,4,5-Tetrachloorbenzeen, 1245TCB in ug/kg Waterbodem
Waterbodem

40: 24'DDD (o,p'-DDD), 24DDD in ug/kg Waterbodem
Waterbodem

41: 2,2',4,5,5'-pentachloorbifenyyl, PCB101 in ug/kg Waterbodem
Waterbodem

42: 2,3',4,4',5-pentachloorbifenyyl, PCB118 in ug/kg Waterbodem
Waterbodem

43: 2,2',3,4,4',5'-hexachloorbifenyyl, PCB138 in ug/kg Waterbodem
Waterbodem

44: 2,2',4,4',5,5'-hexachloorbifenyyl, PCB153 in ug/kg Waterbodem
Waterbodem

45: 2,2',3,4,4',5,5'-heptachloorbifenyyl, PCB180 in ug/kg Waterbodem
Waterbodem

46: 2,4,4'-trichloorbifenyyl, PCB28 in ug/kg Waterbodem
Waterbodem

47: 2,2',5,5'-tetrachloorbifenyyl, PCB52 in ug/kg Waterbodem
Waterbodem

48: 24'DDE (o,p'-DDE), 24DDE in ug/kg Waterbodem
Waterbodem

49: 24'DDT (o,p'-DDT), 24DDT in ug/kg Waterbodem
Waterbodem

50: PentaChloorBenzeen, QCB in ug/kg Waterbodem
Waterbodem

51: Som Ballschmitter PCB's., Tot PCB in ug/kg Waterbodem
Waterbodem

52: Benzo(k)-Fluorantheen, BkF in mg/kg Waterbodem
Waterbodem

53: Naftaleen, Naf in mg/kg Waterbodem

Waterbodem
54: Benzo(a)-Pyreen, BaP in mg/kg Waterbodem
Waterbodem
55: Som PAK (10 van VROM), PAK10 in mg/kg Waterbodem
Waterbodem
56: Fluorantheen, Flu in mg/kg Waterbodem
Waterbodem
57: Antraceen, Ant in mg/kg Waterbodem
Waterbodem
58: Fluoreen, Flur in mg/kg Waterbodem
Waterbodem
59: Chryseen, Chr in mg/kg Waterbodem
Waterbodem
60: Benzo(b)-Fluorantheen, BbF in mg/kg Waterbodem
Waterbodem
61: Dibenz[a,h]antraceen, DBahA in mg/kg Waterbodem
Waterbodem
62: Acenafteen, Ace in mg/kg Waterbodem
Waterbodem
63: Benzo[ghi]peryleen, BghiP in mg/kg Waterbodem
Waterbodem
64: Phenantreen, Phen in mg/kg Waterbodem
Waterbodem
65: Benzo(a)Anthraceen, BaA in mg/kg Waterbodem
Waterbodem
66: Pyreen, Pyr in mg/kg Waterbodem
Waterbodem
67: Indeno[1,2,3-cd]Pyreen, InP in mg/kg Waterbodem
Waterbodem
68: Acenaftyleen, Acy in mg/kg Waterbodem
Waterbodem

7. STATISTISCHE EVALUATIE

Job 1 :20501 en 20502

Acenafteen, Ace in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.141300 * 0.146000	0.143650	2.313541
2	* 0.187000 * 0.192000	0.189500	1.865717
3	* 0.052300 * 0.052800	0.052550	0.672794
4	* 0.163900 * 0.162700	0.163300	0.519613
5	* 0.360000 * 0.110000	0.235000	75.224126
6	* 0.131000 * 0.146000	0.138500	7.658196
7	* 0.145000 * 0.151000	0.148000	2.866649
8	* 0.110000 * 0.110000	0.000000	0.000000 - N.V.
9	* 0.101300 * 0.094200	0.097750	5.136019
10	* 0.381800 * 0.339300	0.360550	8.335054
11	* 0.250000 * 0.260000	0.255000	2.772968
12	* 0.360000 * 0.350000	0.355000	1.991850
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.568600 * 0.594100	0.581350	3.101612
18	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
19	* 0.282000 * 0.494000	0.388000	38.635731
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

13 laboratory observations

Maximum absolute difference from Normal distribution: 0.167761538462, Critical value: 0.432, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
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Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 0

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 0.2391

3. Repeatability

3.1. Standard deviation Sr = 0.0652

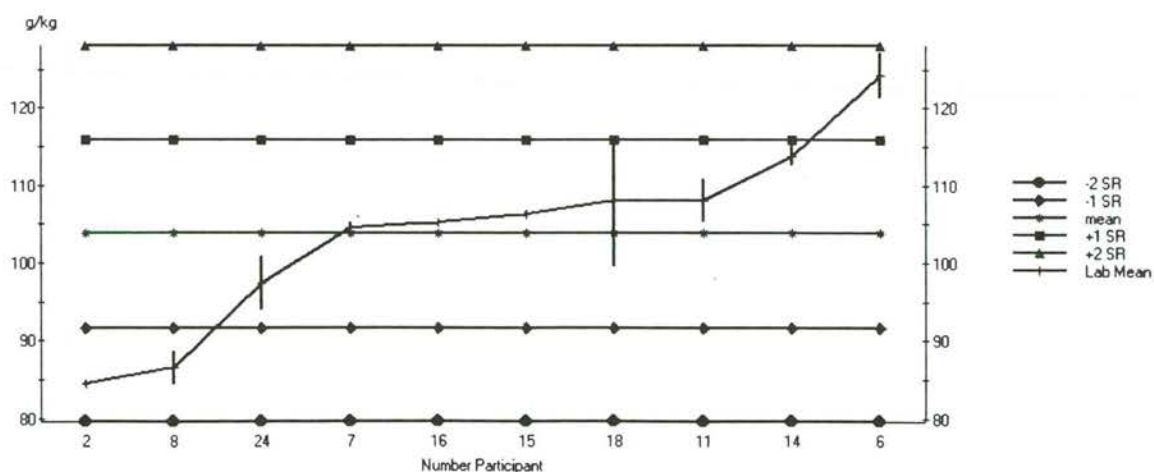
3.2 Coefficient of variation = 27.26 %

4. Reproducibility

4.1 Standard deviation SR = 0.1538

4.2 Coefficient of variation = 64.32 %

Job 1 : Chemisch Zuurstof Verbruik



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
8	0.000000		G	-	LA	LMC	Eigen
18	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
14	0.000000		G	-	-	-	-
16	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
3	0.052550	-1.271503	B	-	-	-	-
9	0.097750	-0.963406	A	-	-	LMC	5771
6	0.138500	-0.685642	A	-	LA	LMC	Eigen
1	0.143650	-0.650538	A	SC	LE	LMC	Eigen
7	0.148000	-0.620887	A	SC	LE	LMD	5771
4	0.163300	-0.516597	A	-	LE	LMC	Eigen
2	0.189500	-0.338010	A	-	LA	LUF	5771
5	0.235000	-0.027868	A	-	LH	LMC	Eigen
11	0.255000	0.108458	A	C	LE	LMC	5771
12	0.355000	0.790088	A	-	L	LMC	Eigen
10	0.360550	0.827919	A	-	S	LMC	5771
19	0.388000	1.015026	B	C	LE	LMC	5771
17	0.581350	2.332959	C	-	-	-	-

General Mean = 0.2391
Between Lab standard deviation = 0.1393
SL
Coefficient of variation = 58.25 %
Number of Laboratories = 13

A: Number of laboratories with IZI-scores between 0 and 1 ; 10
B: Number of laboratories with IZI-scores between 1 and 2 ; 2
C: Number of laboratories with IZI-scores between 2 and 3 ; 1
D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 2 :20501 en 20502
Acenaftyleen, Acy in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.100000 * 0.100000	0.000000	0.000000 - N.V.
2	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
3	* 0.050000 * 0.050000	0.000000	0.000000 - N.V.
4	* 0.030000 * 0.030000	0.000000	0.000000 - N.V.
5	* 0.050000 * 0.050000	0.000000	0.000000 - N.V.
6	* 0.097100 * 0.082700	0.089900	11.326293
7	* 0.050000 * 0.050000	0.000000	0.000000 - N.V.
8	* 0.110000 * 0.110000	0.000000	0.000000 - N.V.
9	* 0.100000 * 0.100000	0.000000	0.000000 - N.V.
10	* 0.050000 * 0.050000	0.000000	0.000000 - N.V.
11	* 0.070000 * 0.070000	0.000000	0.000000 - N.V.
12	* 0.000400 * 0.000400	0.000000	0.000000 - N.V.
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.500000 * 0.500000	0.000000	0.000000 - N.V.
18	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
19	* 0.021000 * 0.020000	0.020500	3.449301
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Number of available laboratory observations less than 5, no statistical analysis

Job 3 :20501 en 20502
 Antraceen, Ant in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.511800 * 0.580000	0.545900	8.833977
2	* 0.673000 * 0.725000	0.699000	5.260308
3	* 0.553000 * 0.569700	0.561350	2.103622
4	* 0.687200 * 0.694200	0.690700	0.716628
5	* 0.640000 * 0.770000	0.705000	13.038848
6	* 0.573000 * 0.593000	0.583000	2.425752
7	* 0.630000 * 0.706000	0.668000	8.044927
8	* 0.740000 * 0.700000	0.720000	3.928371
9	* 0.610400 * 0.586800	0.598600	2.787792
10	* 0.892500 * 1.028000	0.960250	9.977919
11	* 0.740000 * 0.730000	0.735000	0.962050
12	* 0.810000 * 0.770000	0.790000	3.580287
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.790000 * 0.780000	0.785000	0.900773
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.913000 * 0.903300	0.908150	0.755265
17	* 0.634500 * 0.668600	0.651550	3.700766
18	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
19	* 0.683000 * 0.626000	0.654500	6.158149
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

16 laboratory observations

Maximum absolute difference from Normal distribution: 0.14358, Critical value: 0.392, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
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Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 0

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 0.7035

3. Repeatability

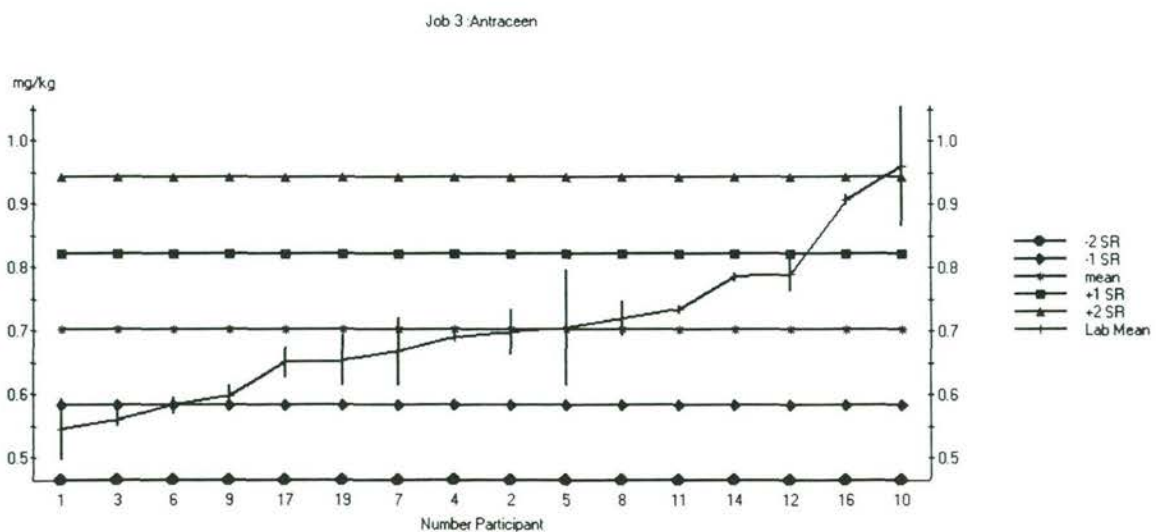
3.1. Standard deviation S_r = 0.0424

3.2 Coefficient of variation = 6.03 %

4. Reproducibility

4.1 Standard deviation S_R = 0.1194

4.2 Coefficient of variation = 16.97 %



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
18	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
1	0.545900	-1.363812	B	C	LE	LMC	Eigen
3	0.561350	-1.230114	B	-	-	-	-
6	0.583000	-1.042763	B	-	LA	LMC	Eigen
9	0.598600	-0.907766	A	-	-	LMC	5771
17	0.651550	-0.449556	A	-	-	-	-
19	0.654500	-0.424028	A	C	LE	LUF	5771
7	0.668000	-0.307204	A	SC	LE	LMD	5771
4	0.690700	-0.110766	A	-	LE	LMC	Eigen
2	0.699000	-0.038941	A	-	LA	LUF	5771
5	0.705000	0.012980	A	-	LH	LMC	Eigen
8	0.720000	0.142785	A	-	LA	LMC	Eigen
11	0.735000	0.272589	A	C	LE	LMC	5771
14	0.785000	0.705271	A	-	-	-	-
12	0.790000	0.748539	A	-	L	LMC	Eigen
16	0.908150	1.770966	B	-	Z	LUF	Eigen
10	0.960250	2.221820	C	-	S	LMC	5771

General Mean = 0.7035
 Between Lab standard deviation = 0.1116
 SL
 Coefficient of variation = 15.86 %
 Number of Laboratories = 16

A: Number of laboratories with IZI-scores between 0 and 1 ; 11
 B: Number of laboratories with IZI-scores between 1 and 2 ; 4
 C: Number of laboratories with IZI-scores between 2 and 3 ; 1
 D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 4 :20501 en 20502

Benzo(a)Anthraceen, BaA in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.946200 * 1.017000	0.981600	5.100159
2	* 1.125000 * 1.170000	1.147500	2.772968
3	* 0.787300 * 0.817400	0.802350	2.652697
4	* 1.029000 * 1.047000	1.038000	1.226197
5	* 0.890000 * 1.010000	0.950000	8.931875
6	* 1.090000 * 1.120000	1.105000	1.919747
7	* 0.858000 * 0.922000	0.890000	5.084813
8	* 1.100000 * 0.980000	1.040000	8.158924
9	* 0.888900 * 0.964700	0.926800	5.783200
10	* 1.156000 * 1.619000	1.387500	23.595707
11	* 0.970000 * 0.870000	0.920000	7.685943
12	* 0.930000 * 0.860000	0.895000	5.530444
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 1.100000 * 1.100000	1.100000	0.000000
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 1.072000 * 0.987900	1.029950	5.773841
17	* 0.919900 * 0.954200	0.937050	2.588310
18	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
19	* 0.945000 * 0.850000	0.897500	7.484696
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

16 laboratory observations

Maximum absolute difference from Normal distribution: 0.14803, Critical value: 0.392, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
1	10	1.387500	0.327390	0.728273	0.553986

Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 1

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 0.9774

3. Repeatability

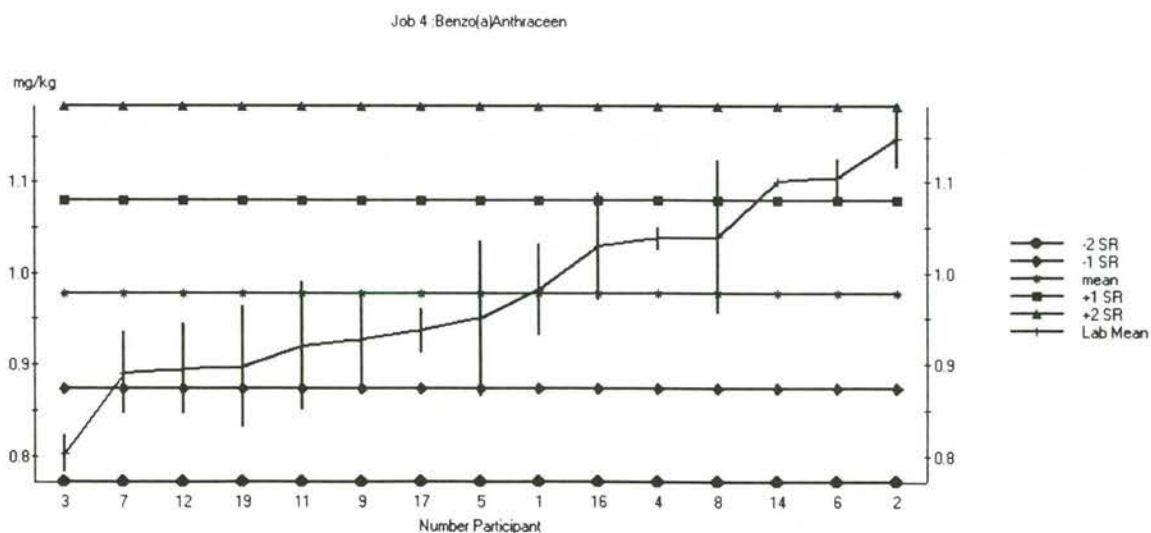
3.1. Standard deviation Sr = 0.0516

3.2 Coefficient of variation = 5.28 %

4. Reproducibility

4.1 Standard deviation SR = 0.1032

4.2 Coefficient of variation = 10.55 %



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
18	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
3	0.802350	-1.814274	B	-	-	-	-
7	0.890000	-0.905755	A	SC	LE	LMC	5771
12	0.895000	-0.853928	A	-	L	LMC	Eigen
19	0.897500	-0.828015	A	C	LE	LUF	5771
11	0.920000	-0.594796	A	C	LE	LMC	5771
9	0.926800	-0.524312	A	-	-	LMC	5771
17	0.937050	-0.418067	A	-	-	-	-
5	0.950000	-0.283837	A	-	LH	LMC	Eigen
1	0.981600	0.043707	A	C	LE	LMC	Eigen
16	1.029950	0.544870	A	-	Z	LUF	Eigen
4	1.038000	0.628310	A	-	LE	LMC	Eigen
8	1.040000	0.649041	A	-	LA	LMC	Eigen
14	1.100000	1.270959	B	-	-	-	-
6	1.105000	1.322786	B	-	LA	LMC	Eigen
2	1.147500	1.763311	B	-	LA	LUF	5771
10	1.387500		W	-	S	LMC	5771

General Mean = 0.9774

Between Lab standard deviation = 0.0893

SL

Coefficient of variation = 9.14 %

Number of Laboratories = 15

A: Number of laboratories with IZI-scores between 0 and 1 ; 11

B: Number of laboratories with IZI-scores between 1 and 2 ; 4

C: Number of laboratories with IZI-scores between 2 and 3 ; 0

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 5 :20501 en 20502
Benzo(a)-Pyreen, BaP in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 1.013000 * 1.120000	1.066500	7.094273
2	* 1.048000 * 1.110000	1.079000	4.063079
3	* 0.892200 * 0.930800	0.911500	2.994440
4	* 1.039000 * 1.071000	1.055000	2.144779
5	* 0.840000 * 0.960000	0.900000	9.428090
6	* 0.937000 * 0.939000	0.938000	0.150769
7	* 0.826000 * 0.767000	0.796500	5.237828
8	* 0.980000 * 0.890000	0.935000	6.806375
9	* 1.147000 * 1.261000	1.204000	6.695197
10	* 1.159000 * 1.495000	1.327000	17.904136
11	* 0.930000 * 0.920000	0.925000	0.764440
12	* 1.030000 * 0.970000	1.000000	4.242641
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.780000 * 0.720000	0.750000	5.656854
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 1.052000 * 0.942100	0.997050	7.794096
17	* 1.026100 * 1.082700	1.054400	3.795736
18	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
19	* 0.881000 * 0.787000	0.834000	7.969789
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

16 laboratory observations

Maximum absolute difference from Normal distribution: 0.13934, Critical value: 0.392, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
1	10	1.327000	0.237588	0.561388	0.553986

Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 1

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 0.9631

3. Repeatability

3.1. Standard deviation S_r = 0.0542

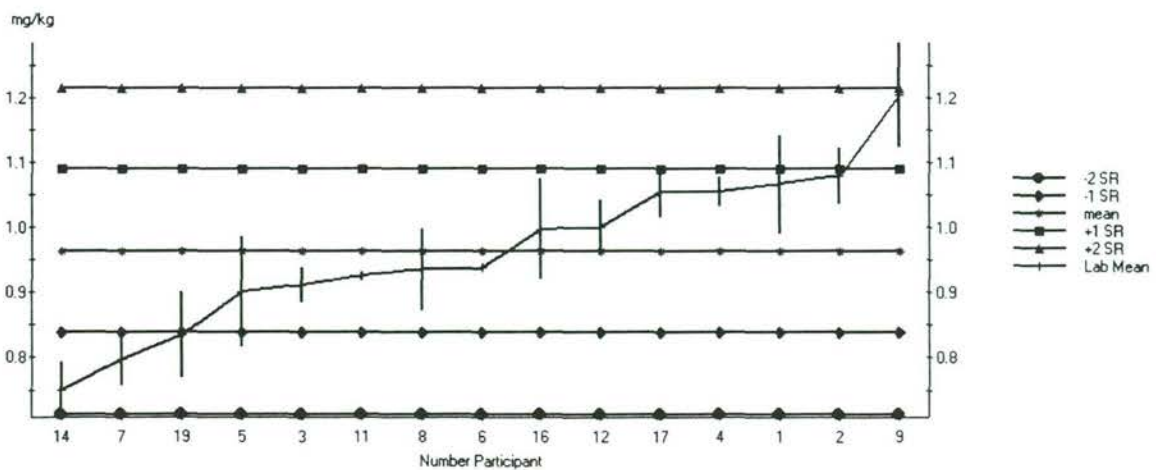
3.2 Coefficient of variation = 5.63 %

4. Reproducibility

4.1 Standard deviation S_R = 0.1258

4.2 Coefficient of variation = 13.06 %

Job 5 : Benzo(a)Pyreen



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
18	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
14	0.750000	-1.779052	B	-	-	-	-
7	0.796500	-1.390783	B	SC	LE	LMD	5771
19	0.834000	-1.077663	B	C	LE	LUF	5771
5	0.900000	-0.526571	A	-	LH	LMC	Eigen
3	0.911500	-0.430547	A	-	-	-	-
11	0.925000	-0.317824	A	C	LE	LMC	5771
8	0.935000	-0.234325	A	-	LA	LMC	Eigen
6	0.938000	-0.209276	A	-	LA	LMC	Eigen
16	0.997050	0.283784	A	-	Z	LUF	Eigen
12	1.000000	0.308417	A	-	L	LMC	Eigen
17	1.054400	0.762650	A	-	-	-	-
4	1.055000	0.767660	A	-	LE	LMC	Eigen
1	1.066500	0.863683	A	C	LE	LMC	Eigen
2	1.079000	0.968057	A	-	LA	LUF	5771
9	1.204000	2.011791	C	-	-	LMC	5771
10	1.327000		W	-	S	LMC	5771

General Mean = 0.9631

Between Lab standard deviation = 0.1135

SL

Coefficient of variation = 11.78 %

Number of Laboratories = 15

A: Number of laboratories with IZI-scores between 0 and 1 ; 11

B: Number of laboratories with IZI-scores between 1 and 2 ; 3

C: Number of laboratories with IZI-scores between 2 and 3 ; 1

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 6 :20501 en 20502

Benzo(b)-Fluorantheen, BbF in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 1.058000 * 1.120000	1.089000	4.025769
2	* 1.142000 * 1.183000	1.162500	2.493882
3	* 0.771300 * 0.744800	0.758050	2.471912
4	* 1.179000 * 1.198000	1.188500	1.130419
5	* 0.930000 * 1.060000	0.995000	9.238581
6	* 1.040000 * 1.020000	1.030000	1.373023
7	* 1.140000 * 1.218000	1.179000	4.678060
8	* 1.100000 * 0.990000	1.045000	7.443229
9	* 0.996700 * 1.075000	1.035850	5.345027
10	* 1.342000 * 1.703000	1.522500	16.766210
11	* 1.220000 * 1.200000	1.210000	1.168772
12	* 1.470000 * 1.400000	1.435000	3.449301
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 1.310000 * 1.214000	1.262000	5.378942
17	* 1.144600 * 1.209800	1.177200	3.916358
18	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
19	* 1.020000 * 0.920000	0.970000	7.289761
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

15 laboratory observations

Maximum absolute difference from Normal distribution: 0.15197, Critical value: 0.404, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
1	10	1.522500	0.255266	0.628686	0.576592

Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 1

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 1.1098

3. Repeatability

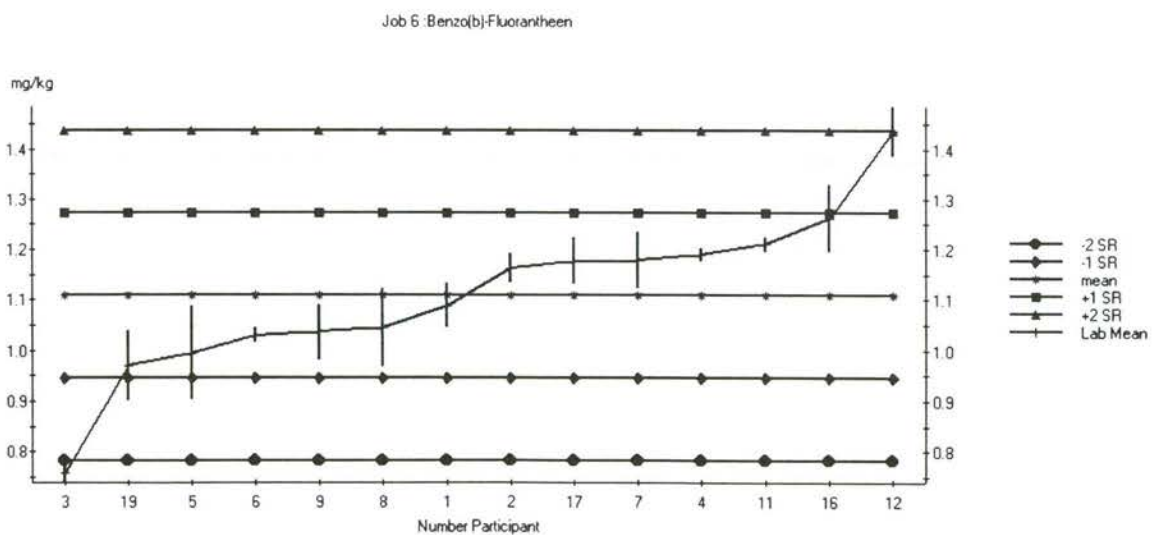
3.1. Standard deviation Sr = 0.0524

3.2 Coefficient of variation = 4.72 %

4. Reproducibility

4.1 Standard deviation SR = 0.1636

4.2 Coefficient of variation = 14.74 %



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
18	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
14	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
3	0.758050	-2.207092	C	-	-	-	-
19	0.970000	-0.877163	A	C	LE	LUF	5771
5	0.995000	-0.720294	A	-	LH	LMC	Eigen
6	1.030000	-0.500679	A	-	LA	LMC	Eigen
9	1.035850	-0.463972	A	-	-	LMC	5771
8	1.045000	-0.406558	A	-	LA	LMC	Eigen
1	1.089000	-0.130470	A	C	LE	LMC	Eigen
2	1.162500	0.330723	A	-	LA	LUF	5771
17	1.177200	0.422962	A	-	-	-	-
7	1.179000	0.434256	A	SC	LE	LMD	5771
4	1.188500	0.493866	A	-	LE	LMC	Eigen
11	1.210000	0.628773	A	C	LE	LMC	5771
16	1.262000	0.955059	A	-	Z	LUF	Eigen
12	1.435000	2.040587	C	-	L	LMC	Eigen
10	1.522500		W	-	S	LMC	5771

General Mean	= 1.1098
Between Lab standard deviation	= 0.1550
SL	
Coefficient of variation	= 13.97 %
Number of Laboratories	= 14

- A: Number of laboratories with IZI-scores between 0 and 1 ; 12
 B: Number of laboratories with IZI-scores between 1 and 2 ; 0
 C: Number of laboratories with IZI-scores between 2 and 3 ; 2
 D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 7 :20501 en 20502

Benzo[ghi]perylene, BghiP in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.746300 * 0.855200	0.800750	9.616476
2	* 0.716000 * 0.752000	0.734000	3.468099
3	* 0.469700 * 0.495600	0.482650	3.794482
4	* 0.692100 * 0.689200	0.690650	0.296910
5	* 0.640000 * 0.740000	0.690000	10.247924
6	* 0.519000 * 0.511000	0.515000	1.098418
7	* 0.656000 * 0.699000	0.677500	4.487910
8	* 0.570000 * 0.520000	0.545000	6.487218
9	* 0.623500 * 0.672000	0.647750	5.294431
10	* 0.757800 * 0.910200	0.834000	12.921232
11	* 0.660000 * 0.660000	0.660000	0.000000
12	* 0.790000 * 0.720000	0.755000	6.555957
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.720000 * 0.680000	0.700000	4.040610
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.785200 * 0.688500	0.736850	9.279667
17	* 0.432200 * 0.458900	0.445550	4.237403
18	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
19	* 0.642000 * 0.586000	0.614000	6.449182
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

16 laboratory observations

Maximum absolute difference from Normal distribution: 0.09135, Critical value: 0.392, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
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Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 0

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 0.6580

3. Repeatability

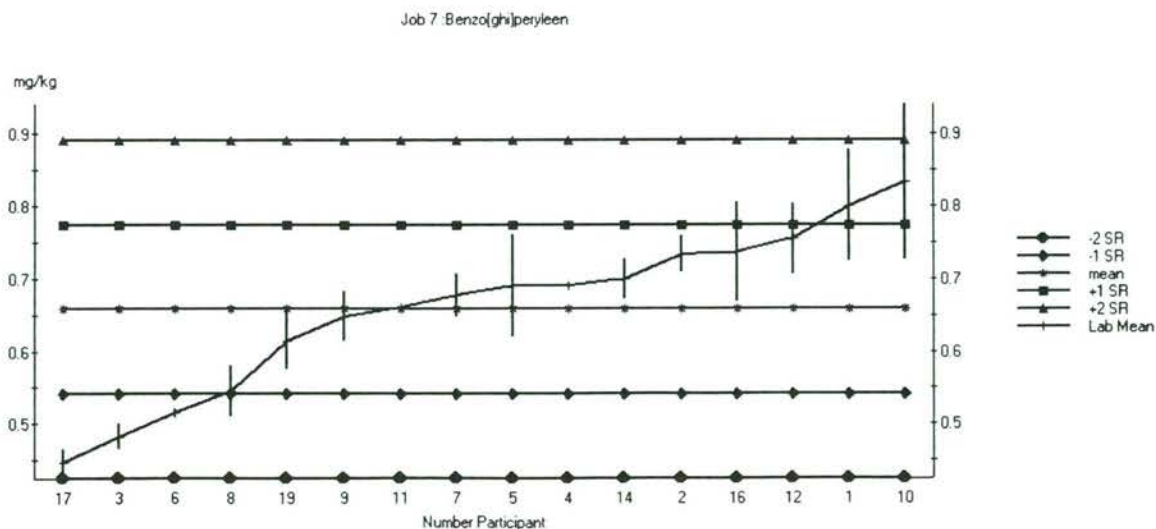
3.1. Standard deviation Sr = 0.0479

3.2 Coefficient of variation = 7.28 %

4. Reproducibility

4.1 Standard deviation SR = 0.1170

4.2 Coefficient of variation = 17.78 %



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
18	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
17	0.445550	-1.897388	B	-	-	-	-
3	0.482650	-1.566116	B	-	-	-	-
6	0.515000	-1.277258	B	-	LA	LMC	Eigen
8	0.545000	-1.009384	B	-	LA	LMC	Eigen
19	0.614000	-0.393273	A	C	LE	LUF	5771
9	0.647750	-0.091914	A	-	-	LMC	5771
11	0.660000	0.017468	A	C	LE	LMC	5771
7	0.677500	0.173728	A	SC	LE	LMD	5771
5	0.690000	0.285342	A	-	LH	LMC	Eigen
4	0.690650	0.291146	A	-	LE	LMC	Eigen
14	0.700000	0.374633	A	-	-	-	-
2	0.734000	0.678224	A	-	LA	LUF	5771
16	0.736850	0.703672	A	-	Z	LUF	Eigen
12	0.755000	0.865736	A	-	L	LMC	Eigen
1	0.800750	1.274245	B	C	LE	LMC	Eigen
10	0.834000	1.571139	B	-	S	LMC	5771

General Mean = 0.6580

Between Lab standard deviation = 0.1067

SL

Coefficient of variation = 16.22 %

Number of Laboratories = 16

A: Number of laboratories with IZI-scores between 0 and 1 ; 10

B: Number of laboratories with IZI-scores between 1 and 2 ; 6

C: Number of laboratories with IZI-scores between 2 and 3 ; 0

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 8 :20501 en 20502

Benzo(k)-Fluorantheen, BkF in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.511700 * 0.550300	0.531000	5.140174
2	* 0.570000 * 0.602000	0.586000	3.861334
3	* 0.410300 * 0.428800	0.419550	3.117978
4	* 0.549900 * 0.573600	0.561750	2.983254
5	* 0.440000 * 0.490000	0.465000	7.603299
6	* 0.549000 * 0.545000	0.547000	0.517080
7	* 0.508000 * 0.542000	0.525000	4.579358
8	* 0.510000 * 0.470000	0.490000	5.772300
9	* 0.504900 * 0.550600	0.527750	6.123123
10	* 0.573600 * 0.734600	0.654100	17.404708
11	* 0.570000 * 0.570000	0.570000	0.000000
12	* 0.530000 * 0.490000	0.510000	5.545936
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.650000 * 0.660000	0.655000	1.079552
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.603700 * 0.554100	0.578900	6.058472
17	* 0.523300 * 0.515100	0.519200	1.116771
18	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
19	* 0.484000 * 0.438000	0.461000	7.055729
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

16 laboratory observations

Maximum absolute difference from Normal distribution: 0.10233, Critical value: 0.392, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
1	10	0.654100	0.113844	0.602215	0.553986

Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 1

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 0.5298

3. Repeatability

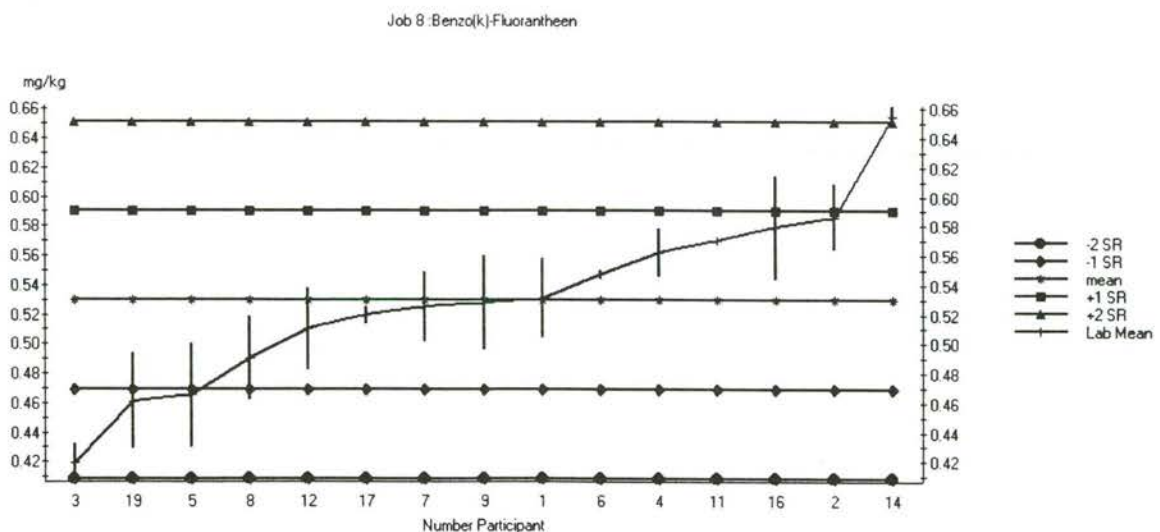
3.1. Standard deviation Sr = 0.0239

3.2 Coefficient of variation = 4.51 %

4. Reproducibility

4.1 Standard deviation SR = 0.0606

4.2 Coefficient of variation = 11.43 %



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
18	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
3	0.419550	-1.895296	B	-	-	-	-
19	0.461000	-1.182798	B	C	LE	LUF	5771
5	0.465000	-1.114041	B	-	LH	LMC	Eigen
8	0.490000	-0.684307	A	-	LA	LMC	Eigen
12	0.510000	-0.340521	A	-	L	LMC	Eigen
17	0.519200	-0.182379	A	-	-	-	-
7	0.525000	-0.082681	A	SC	LE	LMD	5771
9	0.527750	-0.035410	A	-	-	LMC	5771
1	0.531000	0.020455	A	C	LE	LMC	Eigen
6	0.547000	0.295485	A	-	LA	LMC	Eigen
4	0.561750	0.549027	A	-	LE	LMC	Eigen
11	0.570000	0.690839	A	C	LE	LMC	5771
16	0.578900	0.843824	A	-	Z	LUF	Eigen
2	0.586000	0.965869	A	-	LA	LUF	5771
10	0.654100		W	-	S	LMC	5771
14	0.655000	2.151932	C	-	-	-	-

General Mean = 0.5298

Between Lab standard deviation = 0.0557

SL

Coefficient of variation = 10.51 %

Number of Laboratories = 15

A: Number of laboratories with |ZI|-scores between 0 and 1 ; 11

B: Number of laboratories with |ZI|-scores between 1 and 2 ; 3

C: Number of laboratories with |ZI|-scores between 2 and 3 ; 1

D: Number of laboratories with |ZI|-scores larger then 3 ; 0

Job 9 :20501 en 20502
Chryseen, Chr in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.847600 * 0.936100	0.891850	7.016757
2	* 1.095000 * 1.152000	1.123500	3.587458
3	* 0.719000 * 0.754400	0.736700	3.397798
4	* 1.052000 * 1.068000	1.060000	1.067331
5	* 0.880000 * 0.990000	0.935000	8.318903
6	* 0.990000 * 0.997000	0.993500	0.498213
7	* 0.846000 * 0.897000	0.871500	4.137974
8	* 0.830000 * 0.740000	0.785000	8.106957
9	* 0.669600 * 0.675500	0.672550	0.620315
10	* 1.516000 * 1.949000	1.732500	17.672568
11	* 1.070000 * 1.040000	1.055000	2.010730
12	* 0.980000 * 0.900000	0.940000	6.017930
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 1.200000 * 1.200000	1.200000	0.000000
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 1.206000 * 1.110000	1.158000	5.862025
17	* 1.314200 * 1.404700	1.359450	4.707283
18	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
19	* 0.936000 * 0.843000	0.889500	7.393022
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

16 laboratory observations

Maximum absolute difference from Normal distribution: 0.13578, Critical value: 0.392, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
1	10	1.732500	0.306177	0.731466	0.553986

Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 1

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 0.9781

3. Repeatability

3.1. Standard deviation Sr = 0.0479

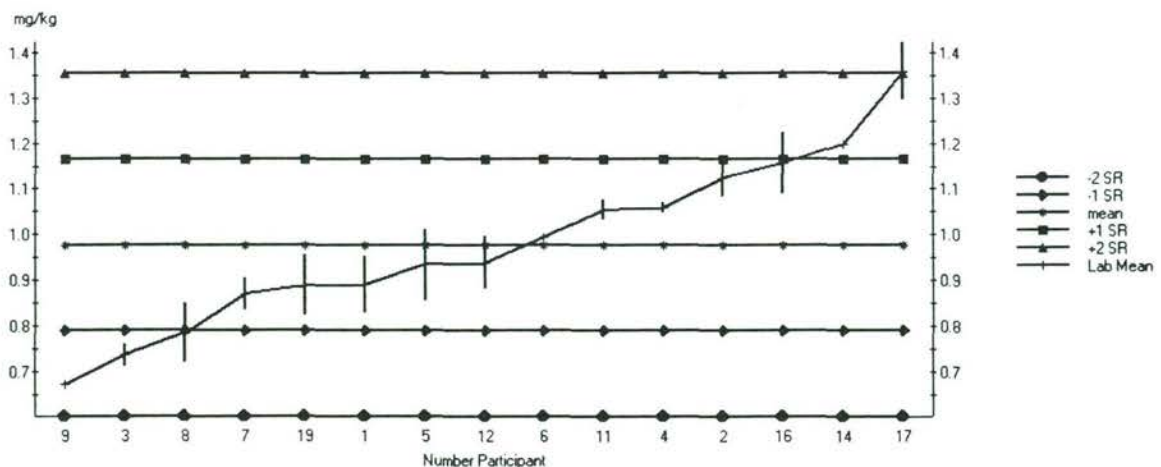
3.2 Coefficient of variation = 4.90 %

4. Reproducibility

4.1 Standard deviation SR = 0.1882

4.2 Coefficient of variation = 19.24 %

Job 9: Chryseen



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
18	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
9	0.672550	-1.650322	B	-	-	LMC	5771
3	0.736700	-1.303842	B	-	-	-	-
8	0.785000	-1.042969	B	-	LA	LMC	Eigen
7	0.871500	-0.575775	A	SC	LE	LMD	5771
19	0.889500	-0.478555	A	C	LE	GDE	5771
1	0.891850	-0.465862	A	C	LE	LMC	Eigen
5	0.935000	-0.232805	A	-	LH	LMC	Eigen
12	0.940000	-0.205800	A	-	L	LMC	Eigen
6	0.993500	0.083159	A	-	LA	LMC	Eigen
11	1.055000	0.415326	A	C	LE	LMC	5771
4	1.060000	0.442332	A	-	LE	LMC	Eigen
2	1.123500	0.785301	A	-	LA	LUF	5771
16	1.158000	0.971639	A	-	Z	LUF	Eigen
14	1.200000	1.198485	B	-	-	-	-
17	1.359450	2.059689	C	-	-	-	-
10	1.732500		W	-	S	LMC	5771

General Mean = 0.9781
 Between Lab standard deviation = 0.1820
 SL
 Coefficient of variation = 18.61 %
 Number of Laboratories = 15

A: Number of laboratories with IZI-scores between 0 and 1 ; 10
 B: Number of laboratories with IZI-scores between 1 and 2 ; 4
 C: Number of laboratories with IZI-scores between 2 and 3 ; 1
 D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 10 :20501 en 20502

Dibenz[a,h]antraceen, DBahA in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.127900 * 0.124000	0.125950	2.189533
2	* 0.167000 * 0.183000	0.175000	6.464976
3	* 0.061200 * 0.066400	0.063800	5.763253
4	* 0.111700 * 0.114500	0.113100	1.750574
5	* 0.120000 * 0.130000	0.125000	5.656854
6	* 0.175000 * 0.156000	0.165500	8.117842
7	* 0.093000 * 0.078000	0.085500	12.405382
8	* 0.090000 * 0.090000	0.090000	0.000000
9	* 0.103000 * 0.112100	0.107550	5.982958
10	* 0.154000 * 0.198900	0.176450	17.993253
11	* 0.170000 * 0.170000	0.170000	0.000000
12	* 0.110000 * 0.110000	0.110000	0.000000
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.199200 * 0.184300	0.191750	5.494598
17	* 0.124400 * 0.118200	0.121300	3.614231
18	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
19	* 0.194000 * 0.176000	0.185000	6.879958
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

15 laboratory observations

Maximum absolute difference from Normal distribution: 0.17535, Critical value: 0.404, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
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Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 0

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 0.1337

3. Repeatability

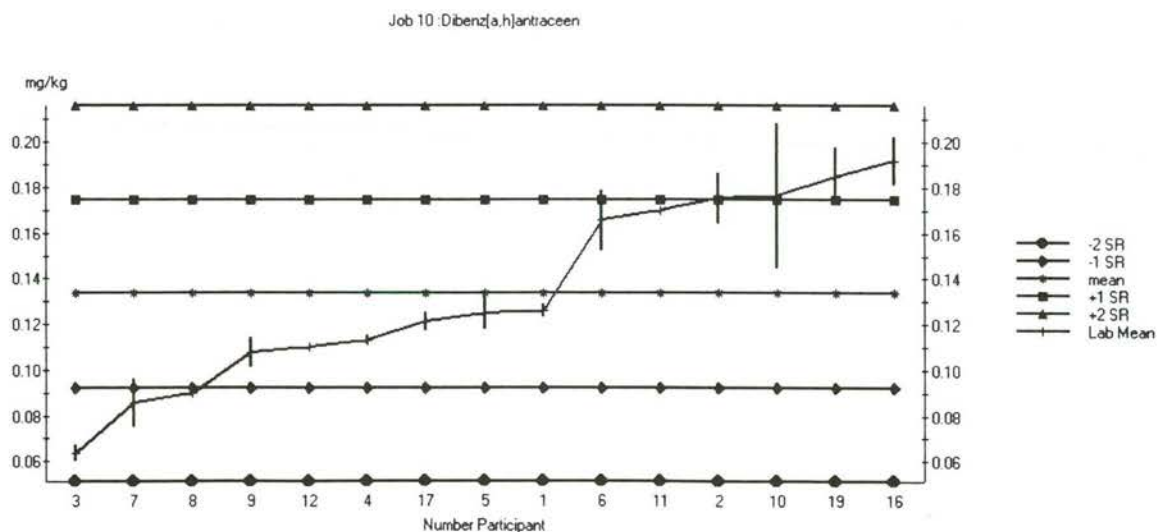
3.1. Standard deviation Sr = 0.0111

3.2 Coefficient of variation = 8.28 %

4. Reproducibility

4.1 Standard deviation SR = 0.0412

4.2 Coefficient of variation = 30.83 %



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
18	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
14	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
3	0.063800	-1.727394	B	-	-	-	-
7	0.085500	-1.191340	B	SC	LE	LMD	5771
8	0.090000	-1.080177	B	-	LA	LMC	Eigen
9	0.107550	-0.646640	A	-	-	LMC	5771
12	0.110000	-0.586118	A	-	L	LMC	Eigen
4	0.113100	-0.509539	A	-	LE	LMC	Eigen
17	0.121300	-0.306975	A	-	-	-	-
5	0.125000	-0.215574	A	-	LH	LMC	Eigen
1	0.125950	-0.192106	A	-	LE	LMC	Eigen
6	0.165500	0.784894	A	-	LA	LMC	Eigen
11	0.170000	0.896058	A	C	LE	LMC	5771
2	0.175000	1.019572	B	-	LA	LUF	5771
10	0.176450	1.055392	B	-	S	LMC	5771
19	0.185000	1.266602	B	C	LE	LUF	5771
16	0.191750	1.433346	B	-	Z	LUF	Eigen

General Mean = 0.1337

Between Lab standard deviation = 0.0397

SL

Coefficient of variation = 29.70 %

Number of Laboratories = 15

A: Number of laboratories with IZI-scores between 0 and 1 ; 8

B: Number of laboratories with IZI-scores between 1 and 2 ; 7

C: Number of laboratories with IZI-scores between 2 and 3 ; 0

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 11 :20501 en 20502
Droge stof, DW in %/- Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 46.460000 * 46.070000	46.265000	0.596070
2	* 45.990000 * 45.710000	45.850000	0.431821
3	* 46.200000 * 45.900000	46.050000	0.460656
4	* 45.130000 * 45.980000	45.555000	1.319374
5	* 48.300000 * 48.000000	48.150000	0.440565
6	* 46.100000 * 46.100000	46.100000	0.000000
7	* 49.300000 * 48.000000	48.650000	1.889494
8	* 46.500000 * 46.100000	46.300000	0.610891
9	* 46.230000 * 46.100000	46.165000	0.199120
10	* 46.050000 * 46.400000	46.225000	0.535397
11	* 45.700000 * 45.600000	45.650000	0.154897
12	* 46.570000 * 46.030000	46.300000	0.824703
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 46.221000 * 45.056600	45.638800	1.804068
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 46.180000 * 46.130000	46.155000	0.076601
18	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
19	* 46.130000 * 45.950000	46.040000	0.276454
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

15 laboratory observations

Maximum absolute difference from Normal distribution: 0.382626666667, Critical value: 0.404, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
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Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
1	5	D	48.150000	0.212132	0.077458	0.253000
1	7	D	48.650000	0.919239	0.077458	0.253000

Samenvatting

1. Eliminations due to

1.1 Repeatability 0

1.2 Reproducibility 2

1.3 Manual rejected

2. General Mean = 46.0226

3. Repeatability

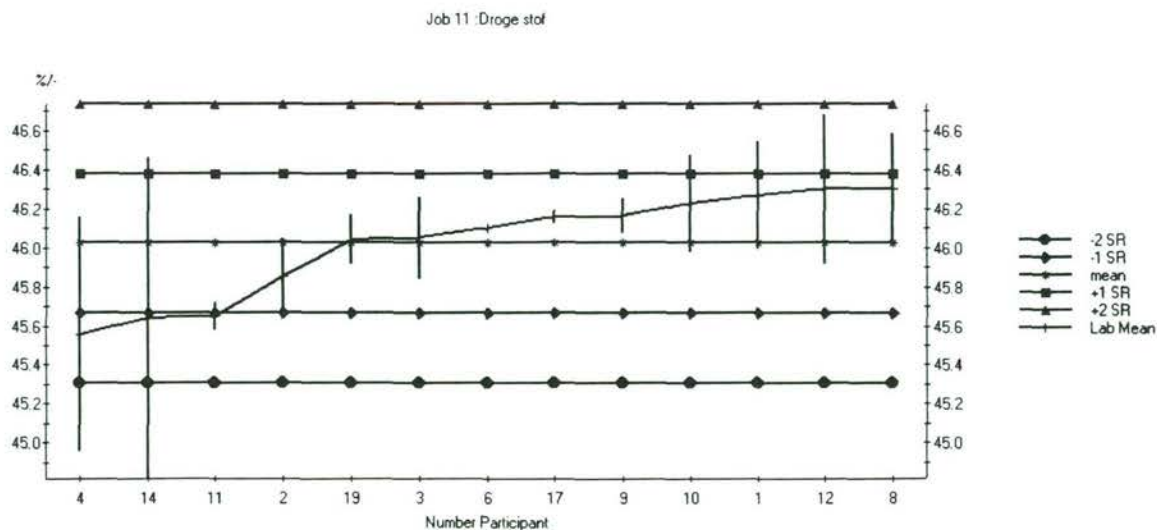
3.1. Standard deviation Sr = 0.3416

3.2 Coefficient of variation = 0.74 %

4. Reproducibility

4.1 Standard deviation SR = 0.3575

4.2 Coefficient of variation = 0.78 %



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
18	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
16	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
4	45.555000	-1.774718	B	-	-	Z	Eigen
14	45.638800	-1.456666	B	-	-	-	-
11	45.650000	-1.414158	B	-	-	-	6620
2	45.850000	-0.655082	A	-	-	-	6620
19	46.040000	0.066040	A	-	-	-	Eigen
3	46.050000	0.103993	A	-	-	-	-
6	46.100000	0.293762	A	-	-	-	5747
17	46.155000	0.502508	A	-	-	-	-
9	46.165000	0.540462	A	-	-	-	-
10	46.225000	0.768184	A	-	-	-	5747
1	46.265000	0.919999	A	-	-	-	6620
8	46.300000	1.052838	B	-	-	-	-
12	46.300000	1.052838	B	-	-	Z	Eigen
5	48.150000		R	-	-	Z	6620
7	48.650000		R	SC	LE	-	-

General Mean = 46.0226

Between Lab standard deviation = 0.1052

SL

Coefficient of variation = 0.23 %

Number of Laboratories = 13

A: Number of laboratories with |ZI-scores between 0 and 1 ; 8

B: Number of laboratories with |ZI-scores between 1 and 2 ; 5

C: Number of laboratories with |ZI-scores between 2 and 3 ; 0

D: Number of laboratories with |ZI-scores larger then 3 ; 0

Job 12 :20501 en 20502
 Fluorantheen, Flu in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 1.647000 * 1.376000	1.511500	12.677866
2	* 2.147000 * 2.109000	2.128000	1.262691
3	* 1.600000 * 1.589000	1.594500	0.487813
4	* 2.040000 * 2.044000	2.042000	0.138513
5	* 1.750000 * 1.910000	1.830000	6.182354
6	* 1.860000 * 1.880000	1.870000	0.756264
7	* 1.700000 * 1.846000	1.773000	5.822763
8	* 2.400000 * 1.800000	2.100000	20.203051
9	* 1.671000 * 1.751000	1.711000	3.306168
10	* 2.250000 * 3.110000	2.680000	22.690740
11	* 2.080000 * 2.090000	2.085000	0.339140
12	* 1.910000 * 1.730000	1.820000	6.993364
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 2.400000 * 2.400000	2.400000	0.000000
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 1.964000 * 1.881000	1.922500	3.052789
17	* 1.818600 * 1.955000	1.886800	5.111796
18	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
19	* 1.735000 * 1.561000	1.648000	7.465812
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

16 laboratory observations

Maximum absolute difference from Normal distribution: 0.14494, Critical value: 0.392, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
2	8	2.100000	0.424264	0.623908	0.576592
1	10	2.680000	0.608112	0.561747	0.553986

Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 2

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 1.8730

3. Repeatability

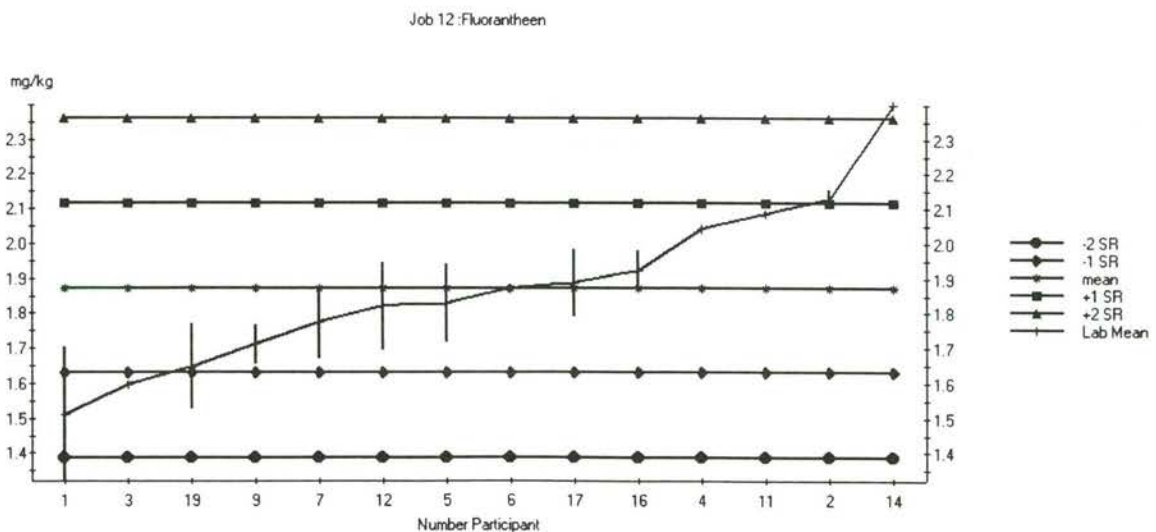
3.1. Standard deviation Sr = 0.0880

3.2 Coefficient of variation = 4.70 %

4. Reproducibility

4.1 Standard deviation SR = 0.2432

4.2 Coefficient of variation = 12.99 %



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
18	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
1	1.511500	-1.537581	B	C	LE	LMC	Eigen
3	1.594500	-1.184575	B	-	-	-	-
19	1.648000	-0.957035	A	C	LE	LUF	5771
9	1.711000	-0.689091	A	-	-	LMC	5771
7	1.773000	-0.425399	A	SC	LE	LMD	5771
12	1.820000	-0.225505	A	-	L	LMC	Eigen
5	1.830000	-0.182974	A	-	LH	LMC	Eigen
6	1.870000	-0.012850	A	-	LA	LMC	Eigen
17	1.886800	0.058601	A	-	-	-	-
16	1.922500	0.210436	A	-	Z	LUF	Eigen
4	2.042000	0.718680	A	-	LE	LMC	Eigen
11	2.085000	0.901562	A	C	LE	LMC	5771
8	2.100000		W	-	LA	LMC	Eigen
2	2.128000	1.084445	B	-	LA	LUF	5771
14	2.400000	2.241284	C	-	-	-	-
10	2.680000		W	-	S	LMC	5771

General Mean = 1.8730

Between Lab standard deviation = 0.2267

SL

Coefficient of variation = 12.11 %

Number of Laboratories = 14

A: Number of laboratories with IZI-scores between 0 and 1 ; 10

B: Number of laboratories with IZI-scores between 1 and 2 ; 3

C: Number of laboratories with IZI-scores between 2 and 3 ; 1

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 13 :20501 en 20502
Fluoreen, Flur in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.197200 * 0.207700	0.202450	3.667385
2	* 0.217000 * 0.220000	0.218500	0.970856
3	* 0.133400 * 0.139000	0.136200	2.907341
4	* 0.221700 * 0.221400	0.221550	0.095749
5	* 0.290000 * 0.370000	0.330000	17.141983
6	* 0.199000 * 0.194000	0.196500	1.799254
7	* 0.214000 * 0.244000	0.229000	9.263408
8	* 0.220000 * 0.220000	0.220000	0.000000
9	* 0.186700 * 0.015220	0.100960	120.101695
10	* 0.297100 * 0.315300	0.306200	4.202921
11	* 0.240000 * 0.240000	0.240000	0.000000
12	* 0.300000 * 0.300000	0.300000	0.000000
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
19	* 0.177000 * 0.153000	0.165000	10.285190
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

13 laboratory observations

Maximum absolute difference from Normal distribution: 0.155130769231, Critical value: 0.432, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
1	9	0.100960	0.121255	0.778161	0.601480
2	5	0.330000	0.056569	0.763455	0.629175

Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 2

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 0.2030

3. Repeatability

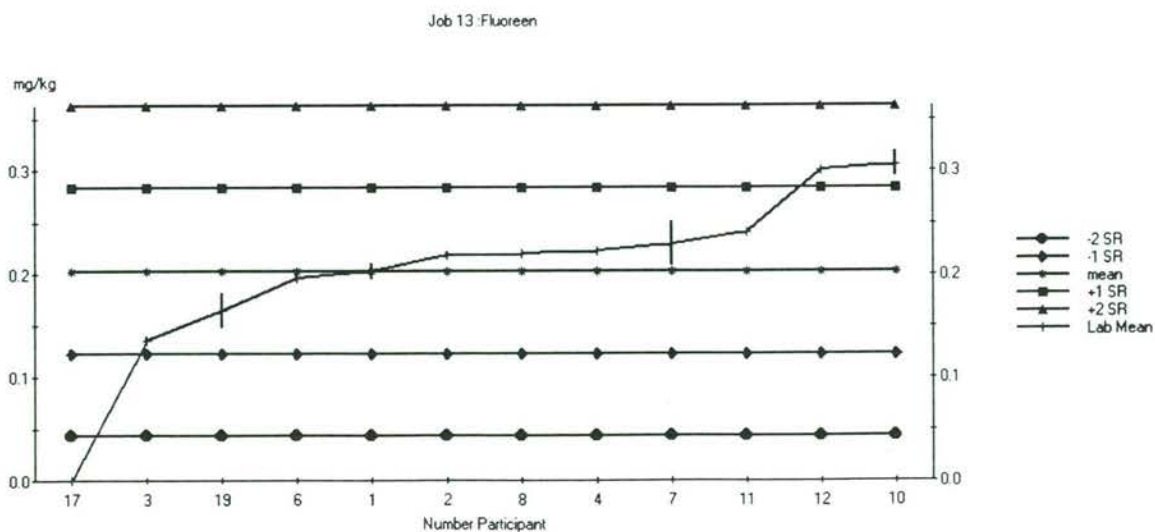
3.1. Standard deviation Sr = 0.0091

3.2 Coefficient of variation = 4.48 %

4. Reproducibility

4.1 Standard deviation SR = 0.0801

4.2 Coefficient of variation = 39.47 %



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
18	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
14	0.000000		G	-	-	-	-
16	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
17	0.000000	-2.541657	C	-	-	-	-
9	0.100960		W	-	-	LMC	5771
3	0.136200	-0.835948	A	-	-	-	-
19	0.165000	-0.475269	A	C	LE	LUF	5771
6	0.196500	-0.080777	A	-	LA	LMC	Eigen
1	0.202450	-0.006262	A	C	LE	LMC	Eigen
2	0.218500	0.194741	A	-	LA	LUF	5771
8	0.220000	0.213527	A	-	LA	LMC	Eigen
4	0.221550	0.232938	A	-	LE	LMC	Eigen
7	0.229000	0.326239	A	SC	LE	LMD	5771
11	0.240000	0.463998	A	C	LE	LMC	5771
12	0.300000	1.215412	B	-	L	LMC	Eigen
10	0.306200	1.293058	B	-	S	LMC	5771
5	0.330000		W	-	LH	LMC	Eigen

General Mean = 0.2030

Between Lab standard deviation = 0.0796

SL

Coefficient of variation = 39.22 %

Number of Laboratories = 12

A: Number of laboratories with IZI-scores between 0 and 1 ; 9

B: Number of laboratories with IZI-scores between 1 and 2 ; 2

C: Number of laboratories with IZI-scores between 2 and 3 ; 1

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 14 :20501 en 20502
 Indeno[1,2,3-cd]Pyrene, InP in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.538400 * 0.609700	0.574050	8.782635
2	* 0.759000 * 0.794000	0.776500	3.187217
3	* 0.548700 * 0.579800	0.564250	3.897390
4	* 0.803400 * 0.824500	0.813950	1.833031
5	* 0.510000 * 0.610000	0.560000	12.626907
6	* 0.723000 * 0.715000	0.719000	0.786767
7	* 0.720000 * 0.762000	0.741000	4.007893
8	* 0.550000 * 0.510000	0.530000	5.336655
9	* 0.758000 * 0.824100	0.791050	5.908572
10	* 0.963100 * 1.195000	1.079050	15.196521
11	* 0.830000 * 0.820000	0.825000	0.857099
12	* 0.790000 * 0.720000	0.755000	6.555957
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.860000 * 0.870000	0.865000	0.817464
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.913400 * 0.896300	0.904850	1.336302
17	* 0.654800 * 0.732200	0.693500	7.891862
18	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
19	* 0.699000 * 0.567000	0.633000	14.745355
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

16 laboratory observations

Maximum absolute difference from Normal distribution: 0.11865, Critical value: 0.392, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
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Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 0

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 0.7391

3. Repeatability

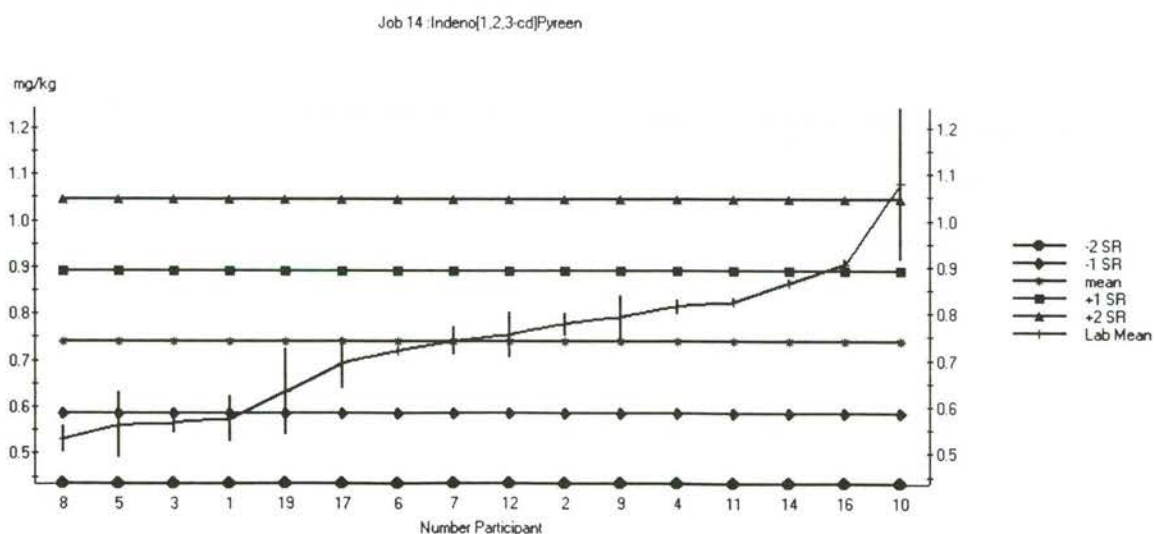
3.1. Standard deviation Sr = 0.0581

3.2 Coefficient of variation = 7.86 %

4. Reproducibility

4.1 Standard deviation SR = 0.1525

4.2 Coefficient of variation = 20.64 %



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
18	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
8	0.530000	-1.423499	B	-	LA	LMC	Eigen
5	0.560000	-1.219243	B	-	LH	LMC	Eigen
3	0.564250	-1.190306	B	-	-	-	-
1	0.574050	-1.123582	B	C	LE	LMC	Eigen
19	0.633000	-0.722218	A	C	LE	GDE	5771
17	0.693500	-0.310300	A	-	-	-	-
6	0.719000	-0.136682	A	-	LA	LMC	Eigen
7	0.741000	0.013106	A	SC	LE	LMD	5771
12	0.755000	0.108426	A	-	L	LMC	Eigen
2	0.776500	0.254810	A	-	LA	LUF	5771
9	0.791050	0.353875	A	-	-	LMC	5771
4	0.813950	0.509791	A	-	LE	LMC	Eigen
11	0.825000	0.585025	A	C	LE	LMC	5771
14	0.865000	0.857368	A	-	-	-	-
16	0.904850	1.128689	B	-	Z	LUF	Eigen
10	1.079050	2.314740	C	-	S	LMC	5771

General Mean = 0.7391

Between Lab standard deviation = 0.1410

SL

Coefficient of variation = 19.08 %

Number of Laboratories = 16

A: Number of laboratories with IZI-scores between 0 and 1 ; 10

B: Number of laboratories with IZI-scores between 1 and 2 ; 5

C: Number of laboratories with IZI-scores between 2 and 3 ; 1

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 15 :20501 en 20502
Naftaleen, Naf in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.218600 * 0.240100	0.229350	6.628644
2	* 0.251000 * 0.256000	0.253500	1.394688
3	* 0.126200 * 0.132100	0.129150	3.230298
4	* 0.276000 * 0.273100	0.274550	0.746898
5	* 0.200000 * 0.050000	0.000000	0.000000 - N.V.
6	* 0.466000 * 0.399000	0.432500	10.954024
7	* 0.391000 * 0.432000	0.411500	7.045292
8	* 0.270000 * 0.290000	0.280000	5.050763
9	* 0.283500 * 0.287700	0.285600	1.039863
10	* 0.355500 * 0.384300	0.369900	5.505454
11	* 0.410000 * 0.370000	0.390000	7.252377
12	* 0.810000 * 0.790000	0.800000	1.767767
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.600000 * 0.600000	0.600000	0.000000
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.422300 * 0.455600	0.438950	5.364314
18	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
19	* 0.235000 * 0.238000	0.236500	0.896964
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

14 laboratory observations

Maximum absolute difference from Normal distribution: 0.194382857143, Critical value: 0.418, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
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Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 0

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 0.3665

3. Repeatability

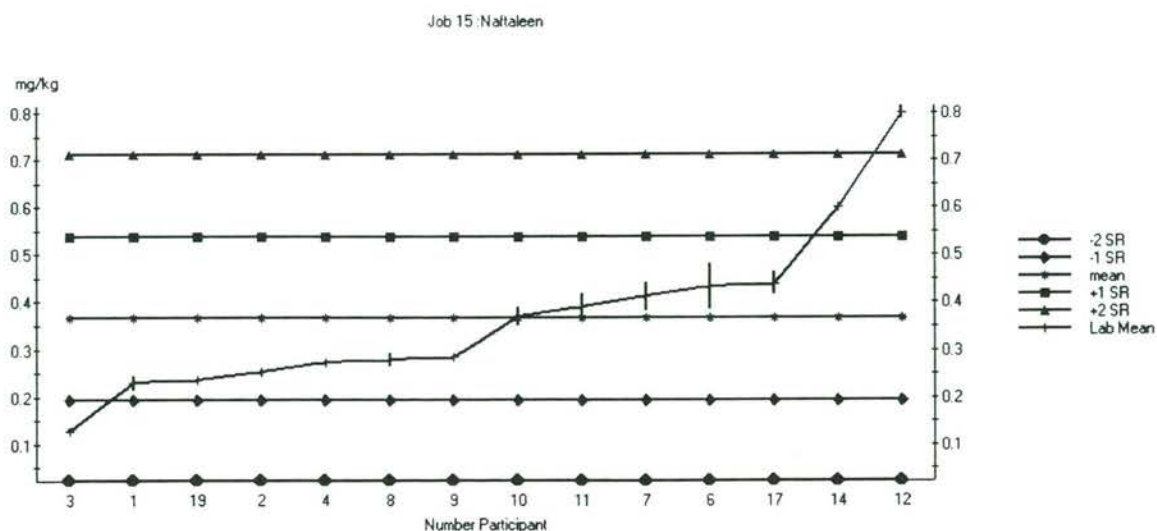
3.1. Standard deviation Sr = 0.0199

3.2 Coefficient of variation = 5.42 %

4. Reproducibility

4.1 Standard deviation SR = 0.1720

4.2 Coefficient of variation = 46.92 %



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
18	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
5	0.000000		G	-	LH	LMC	Eigen
16	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
3	0.129150	-1.384943	B	-	-	-	-
1	0.229350	-0.800362	A	C	LE	LMC	Eigen
19	0.236500	-0.758647	A	C	LE	LMC	5771
2	0.253500	-0.659467	A	-	LA	LUF	5771
4	0.274550	-0.536658	A	-	LE	LMC	Eigen
8	0.280000	-0.504862	A	-	LA	LMC	Eigen
9	0.285600	-0.472191	A	-	-	LMC	5771
10	0.369900	0.019628	A	-	S	LMC	5771
11	0.390000	0.136894	A	C	LE	LMC	5771
7	0.411500	0.262328	A	SC	LE	LMD	5771
6	0.432500	0.384845	A	-	LA	LMC	Eigen
17	0.438950	0.422476	A	-	-	-	-
14	0.600000	1.362065	B	-	-	-	-
12	0.800000	2.528894	C	-	L	LMC	Eigen

General Mean = 0.3665

Between Lab standard deviation = 0.1708

SL

Coefficient of variation = 46.61 %

Number of Laboratories = 14

A: Number of laboratories with IZI-scores between 0 and 1 ; 11

B: Number of laboratories with IZI-scores between 1 and 2 ; 2

C: Number of laboratories with IZI-scores between 2 and 3 ; 1

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 16 :20501 en 20502

Som PAK (10 van VROM), PAK10 in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
2	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
3	* 6.757000 * 6.974000	6.865500	2.234974
4	* 9.132000 * 9.256000	9.194000	0.953679
5	* 7.700000 * 8.500000	8.100000	6.983771
6	* 8.560000 * 8.580000	8.570000	0.165019
7	* 8.054000 * 8.497000	8.275500	3.785249
8	* 9.100000 * 7.800000	8.450000	10.878566
9	* 7.951000 * 8.337000	8.144000	3.351464
10	* 10.880000 * 13.920000	12.400000	17.335521
11	* 8.310000 * 8.220000	8.265000	0.769989
12	* 9.970000 * 9.270000	9.620000	5.145268
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 10.000000 * 10.000000	10.000000	0.000000
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 8.464300 * 9.144100	8.804200	5.459794
18	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

12 laboratory observations

Maximum absolute difference from Normal distribution: 0.190596666667, Critical value: 0.449, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
1	10	12.400000	2.149605	0.714192	0.660491

Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 1

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 8.5717

3. Repeatability

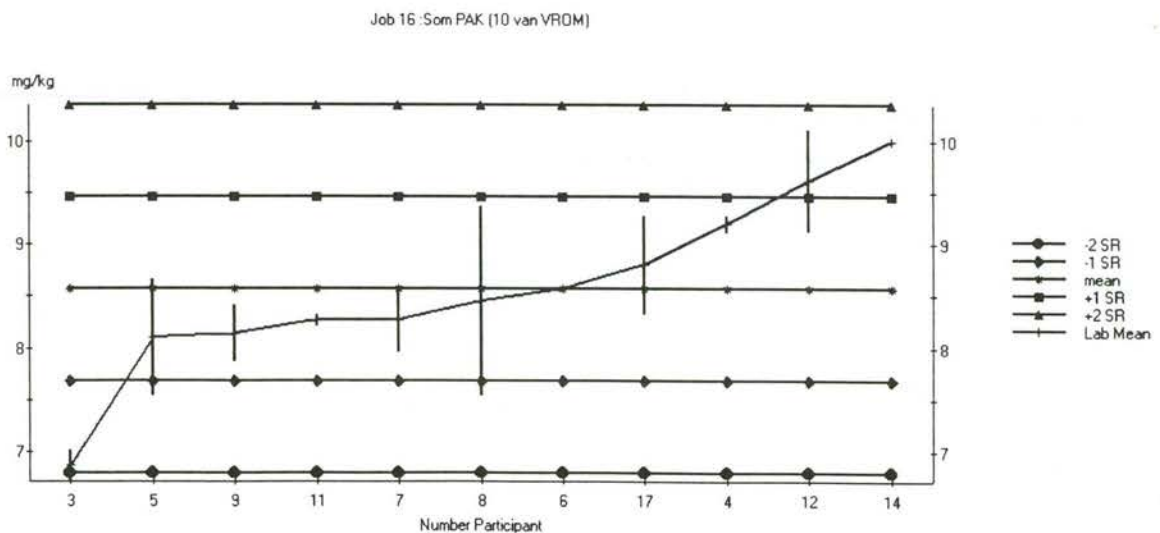
3.1. Standard deviation Sr = 0.4100

3.2 Coefficient of variation = 4.78 %

4. Reproducibility

4.1 Standard deviation SR = 0.8907

4.2 Coefficient of variation = 10.39 %



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
18	0.000000		G	-	-	-	-
1	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
19	0.000000		G	-	-	-	-
16	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
2	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
3	6.865500	-2.025768	C	-	-	-	-
5	8.100000	-0.560009	A	-	LH	LMC	Eigen
9	8.144000	-0.507767	A	-	-	LMC	5771
11	8.265000	-0.364100	A	C	LE	LMC	5734
7	8.275500	-0.351633	A	SC	LE	LMD	5771
8	8.450000	-0.144444	A	-	LA	LMC	Eigen
6	8.570000	-0.001964	A	-	LA	LMC	Eigen
17	8.804200	0.276108	A	-	-	-	-
4	9.194000	0.738929	A	-	LE	LMC	Eigen
12	9.620000	1.244732	B	-	L	LMC	Eigen
14	10.000000	1.695917	B	-	-	-	-
10	12.400000		W	-	S	LMC	5771

General Mean = 8.5717

Between Lab standard deviation = 0.7908

SL

Coefficient of variation = 9.23 %

Number of Laboratories = 11

A: Number of laboratories with IZI-scores between 0 and 1 ; 8

B: Number of laboratories with IZI-scores between 1 and 2 ; 2

C: Number of laboratories with IZI-scores between 2 and 3 ; 1

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 17 :20501 en 20502
Phenantreen, Phen in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.855600 * 0.955000	0.905300	7.763881
2	* 1.016000 * 0.965000	0.990500	3.640832
3	* 0.651300 * 0.674000	0.662650	2.422293
4	* 0.962400 * 0.972400	0.967400	0.730935
5	* 0.860000 * 1.010000	0.935000	11.343959
6	* 0.850000 * 0.880000	0.865000	2.452393
7	* 0.919000 * 0.924000	0.921500	0.383672
8	* 1.100000 * 0.930000	1.015000	11.843168
9	* 0.795200 * 0.764200	0.779700	2.811377
10	* 1.258000 * 1.491000	1.374500	11.986605
11	* 0.940000 * 0.950000	0.945000	0.748261
12	* 1.390000 * 1.320000	1.355000	3.652950
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 1.100000 * 1.100000	1.100000	0.000000
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 1.333000 * 1.307000	1.320000	1.392786
17	* 0.718400 * 0.917100	0.817750	17.181549
18	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
19	* 0.847000 * 0.767000	0.807000	7.009733
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

16 laboratory observations

Maximum absolute difference from Normal distribution: 0.19433, Critical value: 0.392, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
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Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 0

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 0.9851

3. Repeatability

3.1. Standard deviation S_r = 0.0734

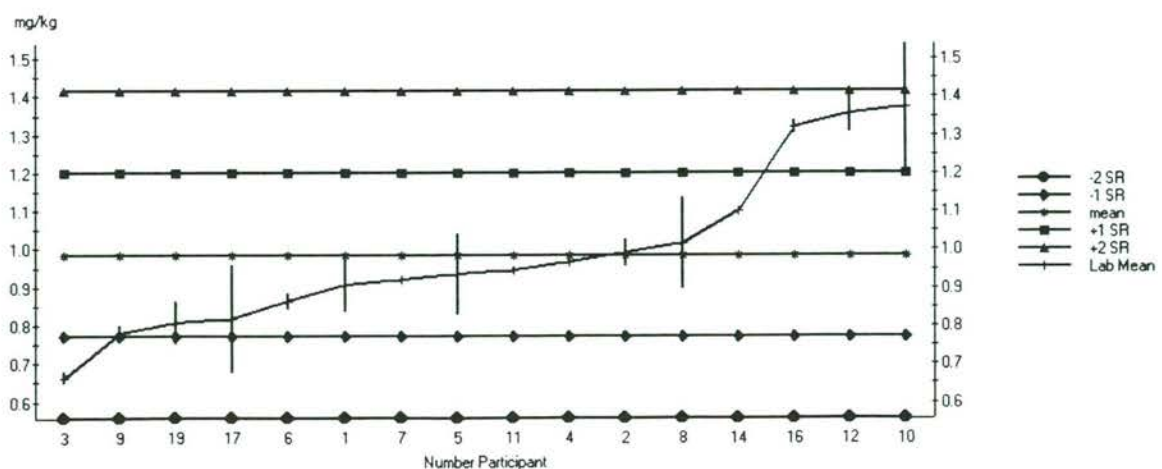
3.2 Coefficient of variation = 7.45 %

4. Reproducibility

4.1 Standard deviation S_R = 0.2145

4.2 Coefficient of variation = 21.78 %

Job 17 : Phenantreen



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
18	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
3	0.662650	-1.549030	B	-	-	-	-
9	0.779700	-0.986697	A	-	-	LMC	5771
19	0.807000	-0.855541	A	C	LE	LUF	5771
17	0.817750	-0.803896	A	-	-	-	-
6	0.865000	-0.576897	A	-	LA	LMC	Eigen
1	0.905300	-0.383287	A	C	LE	LMC	Eigen
7	0.921500	-0.305458	A	SC	LE	LMD	5771
5	0.935000	-0.240601	A	-	LH	LMC	Eigen
11	0.945000	-0.192559	A	C	LE	LMC	5771
4	0.967400	-0.084945	A	-	LE	LMC	Eigen
2	0.990500	0.026033	A	-	LA	LUF	5771
8	1.015000	0.143736	A	-	LA	LMC	Eigen
14	1.100000	0.552095	A	-	-	-	-
16	1.320000	1.609023	B	-	Z	LUF	Eigen
12	1.355000	1.777171	B	-	L	LMC	Eigen
10	1.374500	1.870853	B	-	S	LMC	5771

General Mean = 0.9851

Between Lab standard deviation = 0.2016

SL

Coefficient of variation = 20.46 %

Number of Laboratories = 16

A: Number of laboratories with IZI-scores between 0 and 1 ; 12

B: Number of laboratories with IZI-scores between 1 and 2 ; 4

C: Number of laboratories with IZI-scores between 2 and 3 ; 0

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 18 :20501 en 20502
Pyreen, Pyr in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 1.407000 * 1.419000	1.413000	0.600515
2	* 1.616000 * 1.625000	1.620500	0.392716
3	* 1.312000 * 1.360000	1.336000	2.540503
4	* 1.503000 * 1.489000	1.496000	0.661731
5	* 1.370000 * 1.510000	1.440000	6.874649
6	* 1.480000 * 1.470000	1.475000	0.479394
7	* 1.088000 * 1.163000	1.125500	4.711951
8	* 1.600000 * 1.300000	1.450000	14.629795
9	* 1.345000 * 1.384000	1.364500	2.021045
10	* 1.863000 * 2.488000	2.175500	20.314490
11	* 1.460000 * 1.470000	1.465000	0.482667
12	* 1.580000 * 1.440000	1.510000	6.555957
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 1.583000 * 1.489000	1.536000	4.327346
17	* 1.570300 * 1.525400	1.547850	2.051174
18	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
19	* 1.295000 * 1.182000	1.238500	6.451600
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

15 laboratory observations

Maximum absolute difference from Normal distribution: 0.252566666667, Critical value: 0.404, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
1	10	2.175500	0.441942	0.705715	0.576592

Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 1

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 1.4298

3. Repeatability

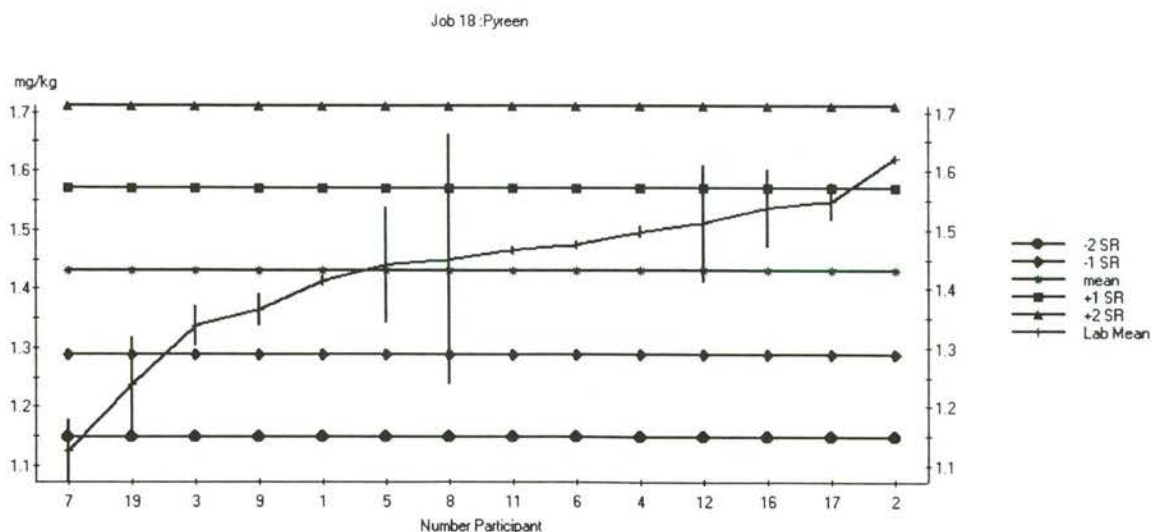
3.1. Standard deviation Sr = 0.0763

3.2 Coefficient of variation = 5.33 %

4. Reproducibility

4.1 Standard deviation SR = 0.1405

4.2 Coefficient of variation = 9.82 %



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
18	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
14	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
7	1.125500	-2.346321	C	SC	LE	LMD	5771
19	1.238500	-1.475161	B	C	LE	LUF	5771
3	1.336000	-0.723497	A	-	-	-	-
9	1.364500	-0.503780	A	-	-	LMC	5771
1	1.413000	-0.129875	A	C	LE	LMC	Eigen
5	1.440000	0.078278	A	-	LH	LMC	Eigen
8	1.450000	0.155371	A	-	LA	LMC	Eigen
11	1.465000	0.271012	A	C	LE	LMC	5771
6	1.475000	0.348106	A	-	LA	LMC	Eigen
4	1.496000	0.510003	A	-	LE	LMC	Eigen
12	1.510000	0.617934	A	-	L	LMC	Eigen
16	1.536000	0.818378	A	-	Z	LUF	Eigen
17	1.547850	0.909734	A	-	-	-	-
2	1.620500	1.469820	B	-	LA	LUF	5771
10	2.175500		W	-	S	LMC	5771

General Mean = 1.4298

Between Lab standard deviation = 0.1180

SL

Coefficient of variation = 8.25 %

Number of Laboratories = 14

A: Number of laboratories with IZI-scores between 0 and 1 ; 11

B: Number of laboratories with IZI-scores between 1 and 2 ; 2

C: Number of laboratories with IZI-scores between 2 and 3 ; 1

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 19 :20503 en 20504
 44'DDD (p,p'-DDD), 44DDD in ug/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 3.310000 * 2.980000	3.145000	7.419562
2	* 4.310000 * 5.410000	4.860000	16.004474
3	* 7.273000 * 6.779000	7.026000	4.971687
4	* 10.000000 * 10.000000	0.000000	0.000000 - N.V.
5	* 2.000000 * 3.000000	2.500000	28.284271
6	* 20.000000 * 20.000000	0.000000	0.000000 - N.V.
7	* 3.000000 * 2.760000	2.880000	5.892557
8	* 10.000000 * 20.000000	0.000000	0.000000 - N.V.
9	* 1.750000 * 4.300000	3.025000	59.607348
10	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
11	* 3.000000 * 2.000000	2.500000	28.284271
12	* 2.300000 * 2.300000	2.300000	0.000000
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 0.002500 * 0.002500	0.000000	0.000000 - N.V.
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

8 laboratory observations

Maximum absolute difference from Normal distribution: 0.34096, Critical value: 0.542, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
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Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
1	2	D	4.860000	0.777817	0.031017	0.056300
1	3	D	7.026000	0.349311	0.031017	0.056300

Samenvatting

1. Eliminations due to

1.1 Repeatability 0

1.2 Reproducibility 2

1.3 Manual rejected

2. General Mean = 2.7250

3. Repeatability

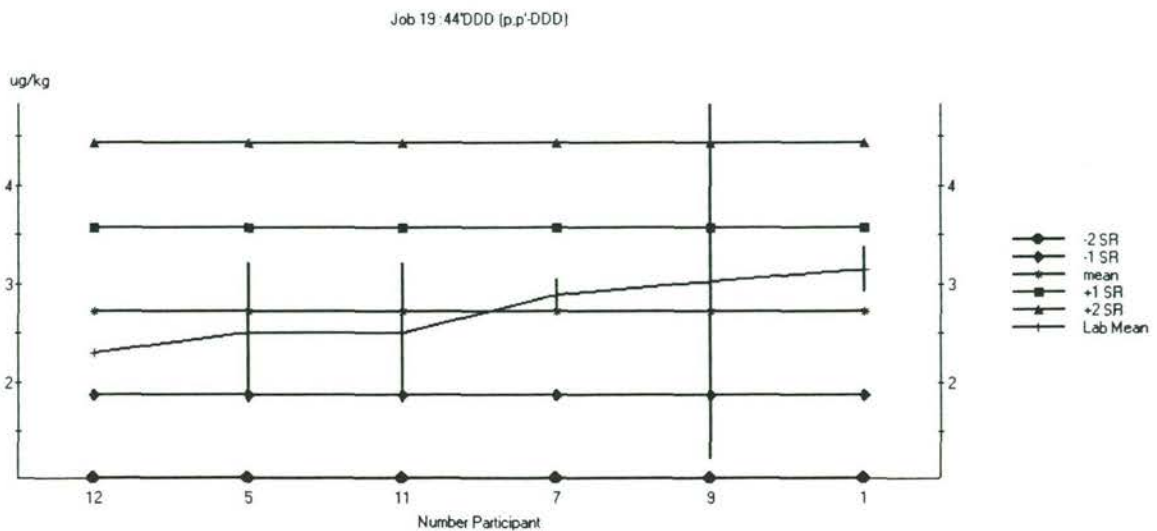
3.1. Standard deviation Sr = 0.8500

3.2 Coefficient of variation = 31.19 %

4. Reproducibility

4.1 Standard deviation SR = 0.8500

4.2 Coefficient of variation = 31.19 %



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
8	0.000000		G	-	LA	GSM	Eigen
10	0.000000		G	-	S	GSM	Eigen
18	0.000000		G	C	LE	GSM	Eigen
20	0.000000		G	-	-	-	-
19	0.000000		G	C	LE	GDE	5718
14	0.000000		G	-	-	-	-
16	0.000000		G	-	-	-	-
6	0.000000		G	C	LA	GDM	5734
15	0.000000		G	-	-	-	-
4	0.000000		G	-	LE	GDE	Eigen
13	0.000000		G	-	-	-	-
17	0.000000		G	-	-	-	-
12	2.300000	-1.256209	B	LS	LE	GDE	Eigen
11	2.500000	-0.665052	A	SC	LE	GDE	5734
5	2.500000	-0.665052	A	-	LH	GDE	Eigen
7	2.880000	0.458147	A	SC	LE	GDE	5734
9	3.025000	0.886736	A	SC	-	GDE	Eigen
1	3.145000	1.241431	B	SC	LE	GDE	5734
2	4.860000		R	A	LE	GDE	5718
3	7.026000		R	-	-	-	-

General Mean = 2.7250

Between Lab standard deviation = 0.0000

SL

Coefficient of variation = 0.00 %

Number of Laboratories = 6

A: Number of laboratories with IZI-scores between 0 and 1 ; 4

B: Number of laboratories with IZI-scores between 1 and 2 ; 2

C: Number of laboratories with IZI-scores between 2 and 3 ; 0

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 20 :20503 en 20504

beta-HexaChloorcycloHexaan, bHCH in ug/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
2	* 25.150000 * 27.610000	26.380000	6.593945
3	* 0.723000 * 0.800000	0.761500	7.149996
4	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
5	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
6	* 20.000000 * 20.000000	0.000000	0.000000 - N.V.
7	* 0.500000 * 0.500000	0.000000	0.000000 - N.V.
8	* 20.000000 * 50.000000	0.000000	0.000000 - N.V.
9	* 0.005000 * 0.005000	0.000000	0.000000 - N.V.
10	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
11	* 5.000000 * 5.000000	0.000000	0.000000 - N.V.
12	* 0.050000 * 0.200000	0.200000	0.000000 - N.V.
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 0.002500 * 0.002500	0.000000	0.000000 - N.V.
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Job 21 :20503 en 20504
 44'DDE (p,p'-DDE), 44DDE in ug/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 4.340000 * 4.540000	4.440000	3.185166
2	* 8.080000 * 8.950000	8.515000	7.224696
3	* 9.677000 * 10.076000	9.876500	2.856636
4	* 10.000000 * 10.000000	0.000000	0.000000 - N.V.
5	* 4.000000 * 4.000000	4.000000	0.000000
6	* 20.000000 * 20.000000	0.000000	0.000000 - N.V.
7	* 5.820000 * 5.800000	5.810000	0.243410
8	* 20.000000 * 31.000000	0.000000	0.000000 - N.V.
9	* 7.180000 * 7.170000	7.175000	0.098551
10	* 9.000000 * 6.000000	7.500000	28.284271
11	* 5.000000 * 6.000000	5.500000	12.856487
12	* 4.000000 * 5.400000	4.700000	21.062755
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 9.000000 * 7.000000	8.000000	17.677670
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

10 laboratory observations

Maximum absolute difference from Normal distribution: 0.14431, Critical value: 0.489, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
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Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 0

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 6.5517

3. Repeatability

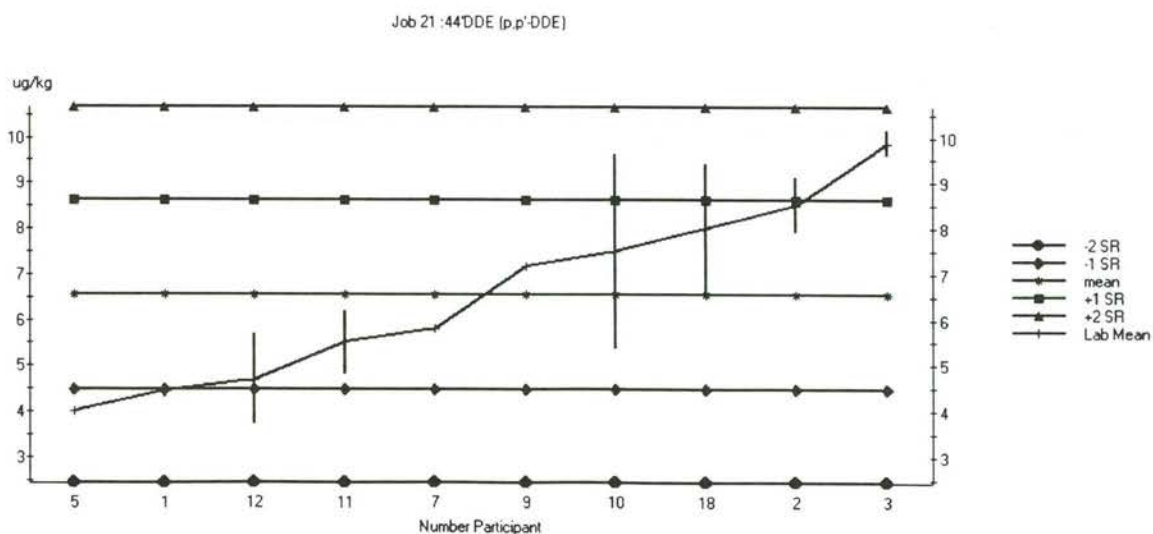
3.1. Standard deviation Sr = 0.9197

3.2 Coefficient of variation = 14.04 %

4. Reproducibility

4.1 Standard deviation SR = 2.0590

4.2 Coefficient of variation = 31.43 %



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
8	0.000000		G	-	LA	GSM	Eigen
20	0.000000		G	-	-	-	-
19	0.000000		G	C	LE	GDE	5718
14	0.000000		G	-	-	-	-
16	0.000000		G	-	-	-	-
6	0.000000		G	C	LA	GDM	5734
15	0.000000		G	-	-	-	-
4	0.000000		G	-	LE	GDE	Eigen
13	0.000000		G	-	-	-	-
17	0.000000		G	-	-	-	-
5	4.000000	-1.306115	B	-	LH	GDE	Eigen
1	4.440000	-1.080892	B	SC	LE	GDE	5734
12	4.700000	-0.947805	A	LS	LE	GDE	Eigen
11	5.500000	-0.538309	A	SC	LE	GDE	5734
7	5.810000	-0.379629	A	SC	LE	GDE	5734
9	7.175000	0.319075	A	SC	-	GDE	Eigen
10	7.500000	0.485433	A	-	S	GSM	Eigen
18	8.000000	0.741368	A	C	LE	GSM	Eigen
2	8.515000	1.004981	B	A	LE	GDE	5718
3	9.876500	1.701893	B	-	-	-	-

General Mean = 6.5517
Between Lab standard deviation = 1.8422
SL
Coefficient of variation = 28.12 %
Number of Laboratories = 10

A: Number of laboratories with IZI-scores between 0 and 1 ; 6
B: Number of laboratories with IZI-scores between 1 and 2 ; 4
C: Number of laboratories with IZI-scores between 2 and 3 ; 0
D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 22 :20503 en 20504

gamma-HexaChloorcycloHexaan, cHCH in ug/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
2	* 4.000000 * 4.000000	0.000000	0.000000 - N.V.
3	* 0.500000 * 0.500000	0.000000	0.000000 - N.V.
4	* 10.000000 * 10.000000	0.000000	0.000000 - N.V.
5	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
6	* 20.000000 * 20.000000	0.000000	0.000000 - N.V.
7	* 0.500000 * 0.500000	0.000000	0.000000 - N.V.
8	* 15.000000 * 20.000000	0.000000	0.000000 - N.V.
9	* 0.000500 * 0.000500	0.000000	0.000000 - N.V.
10	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
11	* 5.000000 * 5.000000	0.000000	0.000000 - N.V.
12	* 0.050000 * 0.050000	0.000000	0.000000 - N.V.
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 0.002500 * 0.002500	0.000000	0.000000 - N.V.
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Number of available laboratory observations less than 5, no statistical analysis

Job 23 :20503 en 20504

44'DDT (p,p'-DDT), 44DDT in ug/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 2.270000 * 1.000000	1.635000	54.925114
2	* 16.050000 * 22.420000	19.235000	23.417053
3	* 8.621000 * 1.000000	8.621000	0.000000 - N.V.
4	* 10.000000 * 10.000000	0.000000	0.000000 - N.V.
5	* 5.000000 * 5.000000	0.000000	0.000000 - N.V.
6	* 20.000000 * 20.000000	0.000000	0.000000 - N.V.
7	* 0.500000 * 0.500000	0.000000	0.000000 - N.V.
8	* 10.000000 * 1.100000	0.000000	0.000000 - N.V.
9	* 9.630000 * 10.500000	10.065000	6.112100
10	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
11	* 5.000000 * 5.000000	0.000000	0.000000 - N.V.
12	* 0.050000 * 0.050000	0.000000	0.000000 - N.V.
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 0.002500 * 0.002500	0.000000	0.000000 - N.V.
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Number of available laboratory observations less than 5, no statistical analysis

Job 24 :20503 en 20504

1,2,3,4-Tetrachloorbenzeen, 1234TCB in ug/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
2	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
3	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
4	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
5	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
6	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
7	* 5.750000 * 5.380000	5.565000	4.701339
8	* 15.000000 * 21.000000	18.000000	23.570226
9	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
10	* 5.000000 * 4.000000	4.500000	15.713484
11	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
12	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Number of available laboratory observations less than 5, no statistical analysis

Job 25 :20503 en 20504
delta-HexaChloorCycloHexaan, dHCH in ug/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
2	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
3	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
4	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
5	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
6	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
7	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
8	* 5.000000 * 10.000000	0.000000	0.000000 - N.V.
9	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
10	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
11	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
12	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 0.002500 * 0.002500	0.000000	0.000000 - N.V.
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Number of available laboratory observations less than 5, no statistical analysis

Job 26 :20503 en 20504
Dieldrin, Diel in ug/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
2	* 4.000000 * 4.000000	0.000000	0.000000 - N.V.
3	* 0.275000 * 0.301000	0.288000	6.383603
4	* 10.000000 * 10.000000	0.000000	0.000000 - N.V.
5	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
6	* 20.000000 * 20.000000	0.000000	0.000000 - N.V.
7	* 0.500000 * 0.500000	0.000000	0.000000 - N.V.
8	* 5.000000 * 10.000000	0.000000	0.000000 - N.V.
9	* 0.000520 * 0.690000	0.345260	141.208360
10	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
11	* 5.000000 * 5.000000	0.000000	0.000000 - N.V.
12	* 0.050000 * 0.050000	0.000000	0.000000 - N.V.
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 0.002500 * 0.002500	0.000000	0.000000 - N.V.
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Number of available laboratory observations less than 5, no statistical analysis

Job 27 :20503 en 20504

1,2,3,5-Tetrachloorbenzeen, 1235TCB in ug/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
2	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
3	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
4	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
5	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
6	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
7	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
8	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
9	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
10	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
11	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
12	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Number of available laboratory observations less than 5, no statistical analysis

Job 28 :20503 en 20504
Droge stof, DW in %/- Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 46.150000 * 46.080000	46.115000	0.107335
2	* 46.040000 * 45.900000	45.970000	0.215347
3	* 46.590000 * 46.490000	46.540000	0.151935
4	* 46.140000 * 45.760000	45.950000	0.584767
5	* 49.100000 * 47.300000	48.200000	2.640648
6	* 46.300000 * 46.400000	46.350000	0.152558
7	* 47.900000 * 47.300000	47.600000	0.891311
8	* 46.100000 * 47.200000	46.650000	1.667347
9	* 46.290000 * 45.900000	46.095000	0.598268
10	* 46.570000 * 46.270000	46.420000	0.456984
11	* 46.400000 * 45.500000	45.950000	1.384975
12	* 47.180000 * 46.060000	46.620000	1.698755
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 46.019800 * 45.730300	45.875050	0.446228
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 46.000000 * 45.000000	45.500000	1.554081
19	* 46.030000 * 45.860000	45.945000	0.261635
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

15 laboratory observations

Maximum absolute difference from Normal distribution: 0.222356666667, Critical value: 0.404, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
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Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
1	5	D	48.200000	1.272792	0.202799	0.253000
1	7	D	47.600000	0.424264	0.202799	0.253000

Samenvatting

1. Eliminations due to

1.1 Repeatability 0

1.2 Reproducibility 2

1.3 Manual rejected

2. General Mean = 46.1523

3. Repeatability

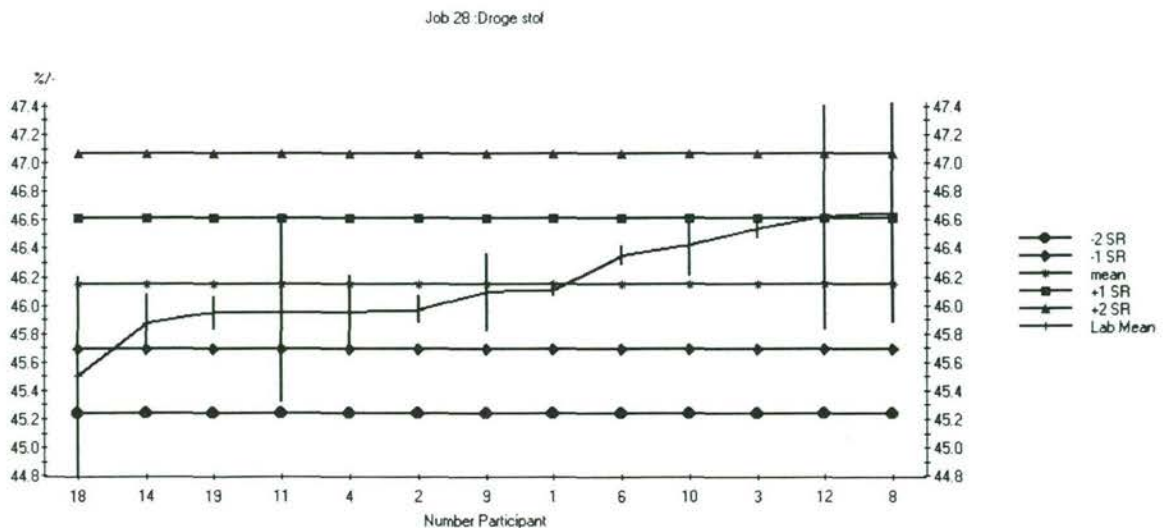
3.1. Standard deviation Sr = 0.4305

3.2 Coefficient of variation = 0.93 %

4. Reproducibility

4.1 Standard deviation SR = 0.4568

4.2 Coefficient of variation = 0.99 %



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
20	0.000000		G	-	-	-	-
16	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
17	0.000000		G	-	-	-	-
18	45.500000	-1.914838	B	-	-	-	-
14	45.875050	-0.813892	A	-	-	-	-
19	45.945000	-0.608556	A	-	-	-	Eigen
11	45.950000	-0.593879	A	-	-	-	6620
4	45.950000	-0.593879	A	-	-	Z	Eigen
2	45.970000	-0.535169	A	-	-	-	6620
9	46.095000	-0.168236	A	-	-	-	-
1	46.115000	-0.109527	A	-	-	-	6620
6	46.350000	0.580308	A	-	-	-	5747
10	46.420000	0.785790	A	-	-	-	5747
3	46.540000	1.138046	B	-	-	-	-
12	46.620000	1.372883	B	-	-	Z	Eigen
8	46.650000	1.460947	B	-	-	-	-
7	47.600000		R	SC	LE	-	-
5	48.200000		R	-	-	Z	6620

General Mean = 46.1523

Between Lab standard deviation = 0.1530

SL

Coefficient of variation = 0.33 %

Number of Laboratories = 13

A: Number of laboratories with IZI-scores between 0 and 1 ; 9

B: Number of laboratories with IZI-scores between 1 and 2 ; 4

C: Number of laboratories with IZI-scores between 2 and 3 ; 0

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 29 :20503 en 20504
 Endrin, End in ug/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
2	* 7.580000 * 9.440000	8.510000	15.454978
3	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
4	* 10.000000 * 10.000000	0.000000	0.000000 - N.V.
5	* 2.000000 * 2.000000	0.000000	0.000000 - N.V.
6	* 40.000000 * 40.000000	0.000000	0.000000 - N.V.
7	* 0.500000 * 0.500000	0.000000	0.000000 - N.V.
8	* 2.000000 * 7.000000	0.000000	0.000000 - N.V.
9	* 0.000900 * 0.000900	0.000000	0.000000 - N.V.
10	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
11	* 5.000000 * 5.000000	0.000000	0.000000 - N.V.
12	* 0.050000 * 0.050000	0.000000	0.000000 - N.V.
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 0.002500 * 0.002500	0.000000	0.000000 - N.V.
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Number of available laboratory observations less than 5, no statistical analysis

Job 30 :20503 en 20504
Endosulfan (alpha), aEnd in ug/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
2	* 4.000000 * 4.000000	0.000000	0.000000 - N.V.
3	* 0.648000 * 1.118000	0.883000	37.637620
4	* 10.000000 * 10.000000	0.000000	0.000000 - N.V.
5	* 1.000000 * 2.000000	1.500000	47.140452
6	* 20.000000 * 20.000000	0.000000	0.000000 - N.V.
7	* 0.500000 * 0.500000	0.000000	0.000000 - N.V.
8	* 5.000000 * 10.000000	0.000000	0.000000 - N.V.
9	* 0.000600 * 0.000600	0.000000	0.000000 - N.V.
10	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
11	* 5.000000 * 5.000000	0.000000	0.000000 - N.V.
12	* 0.050000 * 0.050000	0.000000	0.000000 - N.V.
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 0.005000 * 5.000000	0.000000	0.000000 - N.V.
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Job 31 :20503 en 20504

alpha-HexaChloorcycloHexaan, aHCH in ug/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
2	* 4.000000 * 4.000000	0.000000	0.000000 - N.V.
3	* 0.981000 * 1.103000	1.042000	8.278985
4	* 10.000000 * 10.000000	0.000000	0.000000 - N.V.
5	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
6	* 20.000000 * 20.000000	0.000000	0.000000 - N.V.
7	* 0.500000 * 0.500000	0.000000	0.000000 - N.V.
8	* 20.000000 * 10.000000	0.000000	0.000000 - N.V.
9	* 0.000300 * 0.430000	0.430000	0.000000 - N.V.
10	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
11	* 5.000000 * 5.000000	0.000000	0.000000 - N.V.
12	* 0.050000 * 0.050000	0.000000	0.000000 - N.V.
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 0.002500 * 0.002500	0.000000	0.000000 - N.V.
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Number of available laboratory observations less than 5, no statistical analysis

Job 32 :20503 en 20504
HexaChloorBenzeen, HCB in ug/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 12.000000 * 10.000000	11.000000	12.856487
2	* 17.700000 * 17.300000	17.500000	1.616244
3	* 11.060000 * 25.467000	18.263500	55.779491
4	* 33.000000 * 17.000000	25.000000	45.254834
5	* 15.000000 * 14.000000	14.500000	4.876598
6	* 16.400000 * 15.700000	16.050000	3.083955
7	* 12.920000 * 14.040000	13.480000	5.875071
8	* 38.000000 * 59.000000	48.500000	30.616995
9	* 24.300000 * 18.900000	21.600000	17.677670
10	* 51.000000 * 17.000000	34.000000	70.710678
11	* 15.000000 * 14.000000	14.500000	4.876598
12	* 15.000000 * 16.000000	15.500000	4.561979
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 13.000000 * 14.000000	13.500000	5.237828
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

13 laboratory observations

Maximum absolute difference from Normal distribution: 0.267657692308, Critical value: 0.432, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
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Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
1	8	S	48.500000	14.849242	2.706559	2.699000

Samenvatting

1. Eliminations due to

1.1 Repeatability 0

1.2 Reproducibility 1

1.3 Manual rejected

2. General Mean = 17.9078

3. Repeatability

3.1. Standard deviation Sr = 8.3132

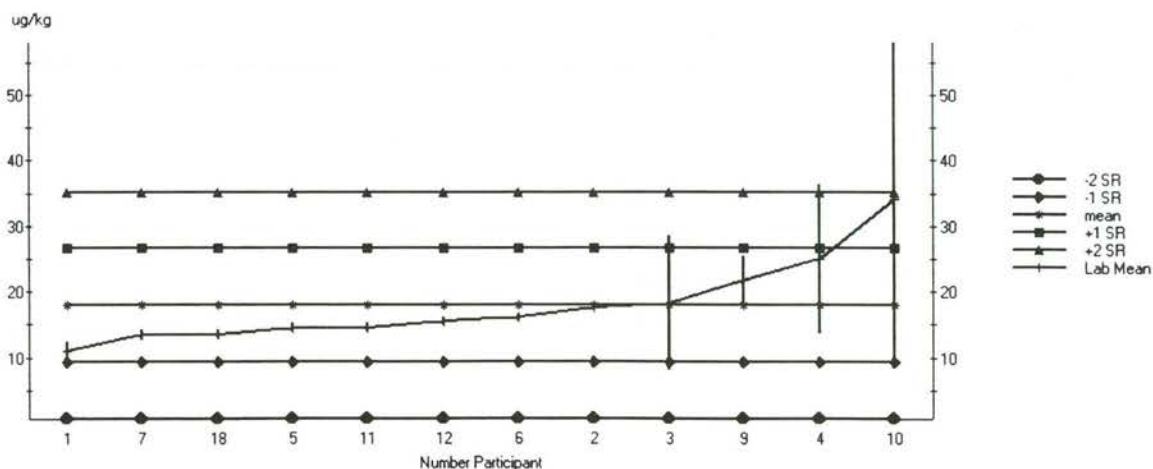
3.2 Coefficient of variation = 46.42 %

4. Reproducibility

4.1 Standard deviation SR = 8.6472

4.2 Coefficient of variation = 48.29 %

Job 32 :HexaChloorBenzeen



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
20	0.000000		G	-	-	-	-
19	0.000000		G	C	LE	GDE	5718
14	0.000000		G	-	-	-	-
16	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
17	0.000000		G	-	-	-	-
1	11.000000	-1.089238	B	SC	LE	GDE	5734
7	13.480000	-0.698186	A	SC	LE	GDE	5734
18	13.500000	-0.695032	A	C	LE	GSM	Eigen
11	14.500000	-0.537349	A	SC	LE	GDE	5734
5	14.500000	-0.537349	A	-	LH	GDE	Eigen
12	15.500000	-0.379667	A	LS	LE	GDE	Eigen
6	16.050000	-0.292941	A	C	LA	GDM	5734
2	17.500000	-0.064302	A	A	LE	GDE	5718
3	18.263500	0.056089	A	-	-	-	-
9	21.600000	0.582197	A	SC	-	GDE	Eigen
4	25.000000	1.118318	B	-	LE	GDE	Eigen
10	34.000000	2.537461	C	-	S	GSM	Eigen
8	48.500000		R	-	LA	GSM	Eigen

General Mean = 17.9078

Between Lab standard deviation = 2.3800

SL

Coefficient of variation = 13.29 %

Number of Laboratories = 12

A: Number of laboratories with IZI-scores between 0 and 1 ; 9

B: Number of laboratories with IZI-scores between 1 and 2 ; 2

C: Number of laboratories with IZI-scores between 2 and 3 ; 1

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 33 :20503 en 20504

HexaChloorButadieen, HCBd in ug/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 7.000000 * 7.000000	7.000000	0.000000
2	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
3	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
4	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
5	* 4.000000 * 4.000000	4.000000	0.000000
6	* 20.000000 * 20.000000	0.000000	0.000000 - N.V.
7	* 8.200000 * 7.880000	8.040000	2.814355
8	* 20.000000 * 25.000000	22.500000	15.713484
9	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
10	* 8.000000 * 6.000000	7.000000	20.203051
11	* 12.000000 * 12.000000	12.000000	0.000000
12	* 1.900000 * 2.200000	2.050000	10.347904
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 7.400000 * 7.600000	7.500000	1.885618
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

8 laboratory observations

Maximum absolute difference from Normal distribution: 0.2938, Critical value: 0.542, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
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Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 0

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 8.7613

3. Repeatability

3.1. Standard deviation Sr = 1.3517

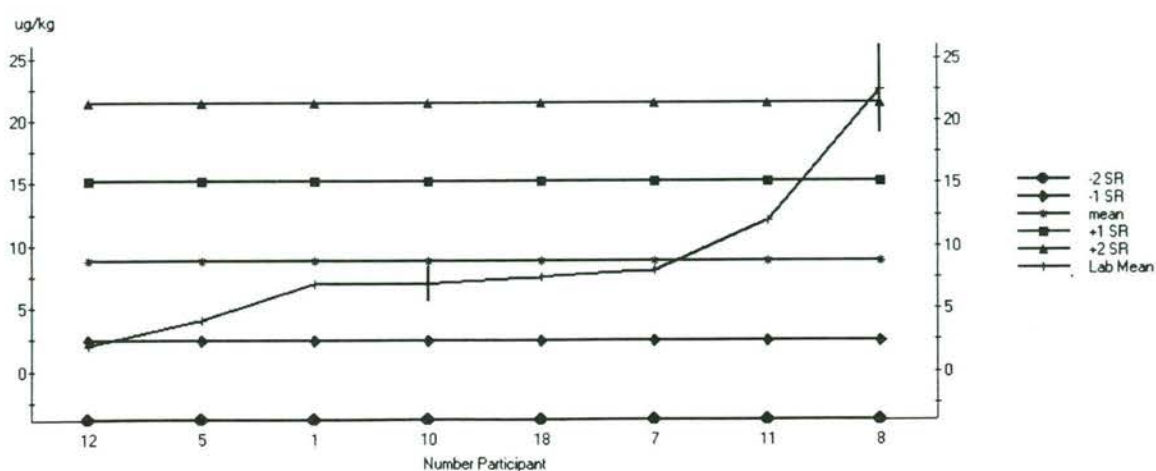
3.2 Coefficient of variation = 15.43 %

4. Reproducibility

4.1 Standard deviation SR = 6.3433

4.2 Coefficient of variation = 72.40 %

Job 33 HexaChloorButadien



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
9	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
19	0.000000		G	-	-	-	-
14	0.000000		G	-	-	-	-
16	0.000000		G	-	-	-	-
6	0.000000		G	C	LA	GDM	5734
15	0.000000		G	-	-	-	-
2	0.000000		G	-	-	-	-
4	0.000000		G	-	-	-	-
3	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
17	0.000000		G	-	-	-	-
12	2.050000	-1.070224	B	LS	LE	GDE	Eigen
5	4.000000	-0.759263	A	-	LH	GDE	Eigen
10	7.000000	-0.280861	A	-	S	GSM	Eigen
1	7.000000	-0.280861	A	SC	LE	GDE	5734
18	7.500000	-0.201128	A	C	LE	GSM	Eigen
7	8.040000	-0.115016	A	SC	LE	GDE	5734
11	12.000000	0.516474	A	SC	LE	GDE	5734
8	22.500000	2.190879	C	-	LA	GSM	Eigen

General Mean	= 8.7613
Between Lab standard deviation	= 6.1976
SL	
Coefficient of variation	= 70.74 %
Number of Laboratories	= 8

A: Number of laboratories with |ZI|-scores between 0 and 1 ; 6
 B: Number of laboratories with |ZI|-scores between 1 and 2 ; 1
 C: Number of laboratories with |ZI|-scores between 2 and 3 ; 1
 D: Number of laboratories with |ZI|-scores larger then 3 ; 0

Job 34 :20503 en 20504
HexaChloorEthaan, HCEa in ug/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
2	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
3	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
4	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
5	* 1.000000 * 2.000000	0.000000	0.000000 - N.V.
6	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
7	* 0.500000 * 0.500000	0.000000	0.000000 - N.V.
8	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
9	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
10	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
11	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
12	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Number of available laboratory observations less than 5, no statistical analysis

Job 35 :20503 en 20504
 Heptachloor, HepC in ug/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 2.900000 * 2.800000	2.850000	2.481076
2	* 5.710000 * 6.170000	5.940000	5.475911
3	* 0.500000 * 0.500000	0.000000	0.000000 - N.V.
4	* 10.000000 * 10.000000	0.000000	0.000000 - N.V.
5	* 5.000000 * 5.000000	0.000000	0.000000 - N.V.
6	* 20.000000 * 20.000000	0.000000	0.000000 - N.V.
7	* 0.500000 * 0.500000	0.000000	0.000000 - N.V.
8	* 10.000000 * 10.000000	0.000000	0.000000 - N.V.
9	* 0.000400 * 0.000400	0.000000	0.000000 - N.V.
10	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
11	* 5.000000 * 5.000000	0.000000	0.000000 - N.V.
12	* 0.050000 * 0.050000	0.000000	0.000000 - N.V.
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 0.002500 * 0.002500	0.000000	0.000000 - N.V.
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Number of available laboratory observations less than 5, no statistical analysis

Job 36 :20503 en 20504

Heptachloorepoxide (isomeer-b), Hepo in ug/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
2	* 4.000000 * 4.000000	0.000000	0.000000 - N.V.
3	* 0.200000 * 0.200000	0.000000	0.000000 - N.V.
4	* 10.000000 * 10.000000	0.000000	0.000000 - N.V.
5	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
6	* 20.000000 * 20.000000	0.000000	0.000000 - N.V.
7	* 0.500000 * 0.500000	0.000000	0.000000 - N.V.
8	* 1.100000 * 1.100000	0.000000	0.000000 - N.V.
9	* 0.000500 * 0.000500	0.000000	0.000000 - N.V.
10	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
11	* 5.000000 * 5.000000	0.000000	0.000000 - N.V.
12	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 0.002500 * 0.002500	0.000000	0.000000 - N.V.
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Job 37 :20503 en 20504
Aldrin, Ald in ug/kg Waterbodem

Lab ID	Dataset	Average	% Variance
1	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
2	* 4.000000 * 4.000000	0.000000	0.000000 - N.V.
3	* 0.950000 * 0.992000	0.971000	3.058546
4	* 14.000000 * 14.000000	14.000000	0.000000
5	* 5.000000 * 5.000000	0.000000	0.000000 - N.V.
6	* 20.000000 * 20.000000	0.000000	0.000000 - N.V.
7	* 0.500000 * 0.500000	0.000000	0.000000 - N.V.
8	* 15.000000 * 20.000000	0.000000	0.000000 - N.V.
9	* 0.000200 * 0.000200	0.000000	0.000000 - N.V.
10	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
11	* 5.000000 * 5.000000	0.000000	0.000000 - N.V.
12	* 0.050000 * 0.050000	0.000000	0.000000 - N.V.
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 0.002500 * 0.002500	0.000000	0.000000 - N.V.
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Number of available laboratory observations less than 5, no statistical analysis

Job 38 :20503 en 20504
Isodrin, lsd in ug/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
2	* 4.000000 * 4.000000	0.000000	0.000000 - N.V.
3	* 0.200000 * 0.200000	0.000000	0.000000 - N.V.
4	* 10.000000 * 10.000000	0.000000	0.000000 - N.V.
5	* 5.000000 * 5.000000	0.000000	0.000000 - N.V.
6	* 20.000000 * 20.000000	0.000000	0.000000 - N.V.
7	* 0.500000 * 0.500000	0.000000	0.000000 - N.V.
8	* 20.000000 * 1.100000	0.000000	0.000000 - N.V.
9	* 0.000950 * 0.001090	0.001020	9.705387
10	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
11	* 5.000000 * 5.000000	0.000000	0.000000 - N.V.
12	* 0.050000 * 0.050000	0.000000	0.000000 - N.V.
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 0.002500 * 0.002500	0.000000	0.000000 - N.V.
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Number of available laboratory observations less than 5, no statistical analysis

Job 39 :20503 en 20504

1,2,4,5-Tetrachloorbenzeen, 1245TCB in ug/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
2	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
3	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
4	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
5	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
6	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
7	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
8	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
9	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
10	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
11	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
12	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Number of available laboratory observations less than 5, no statistical analysis

Job 40 :20503 en 20504

24'DDD (o,p'-DDD), 24DDD in ug/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 1.000000 * 0.940000	0.970000	4.373856
2	* 4.000000 * 4.000000	0.000000	0.000000 - N.V.
3	* 7.163000 * 7.850000	7.506500	6.471489
4	* 10.000000 * 10.000000	0.000000	0.000000 - N.V.
5	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
6	* 20.000000 * 20.000000	0.000000	0.000000 - N.V.
7	* 0.500000 * 0.500000	0.000000	0.000000 - N.V.
8	* 5.000000 * 1.100000	0.000000	0.000000 - N.V.
9	* 0.240000 * 0.430000	0.335000	40.104564
10	* 5.000000 * 1.000000	5.000000	0.000000 - N.V.
11	* 5.000000 * 5.000000	0.000000	0.000000 - N.V.
12	* 0.050000 * 0.050000	0.000000	0.000000 - N.V.
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 2.500000 * 0.002500	0.000000	0.000000 - N.V.
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Job 41 :20503 en 20504

2,2',4,5,5'-pentachloorbifenyyl, PCB101 in ug/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 40.000000 * 41.000000	40.500000	1.745943
2	* 55.420000 * 58.770000	57.095000	4.148888
3	* 41.210000 * 63.820000	52.515000	30.444034
4	* 32.000000 * 30.000000	31.000000	4.561979
5	* 66.000000 * 54.000000	60.000000	14.142136
6	* 45.400000 * 45.600000	45.500000	0.310816
7	* 48.400000 * 50.700000	49.550000	3.282231
8	* 180.000000 * 240.000000	210.000000	20.203051
9	* 51.000000 * 56.500000	53.750000	7.235511
10	* 42.000000 * 25.000000	33.500000	35.883031
11	* 32.000000 * 34.000000	33.000000	4.285496
12	* 26.000000 * 28.000000	27.000000	5.237828
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 62.000000 * 62.000000	62.000000	0.000000
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

13 laboratory observations

Maximum absolute difference from Normal distribution: 0.391186923077, Critical value: 0.432, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
1	8	210.000000	42.426407	0.781926	0.629175

Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 1

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 45.4508

3. Repeatability

3.1. Standard deviation Sr = 6.4679

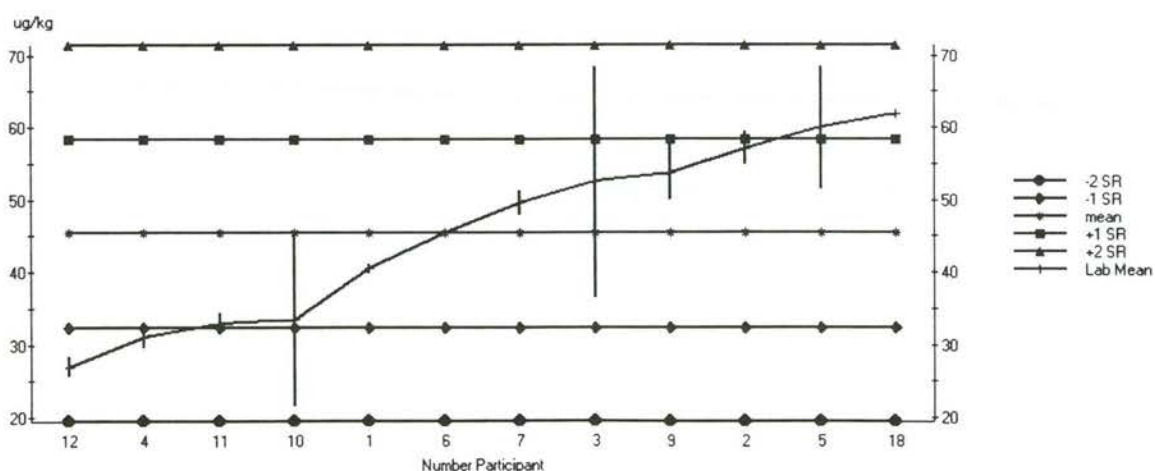
3.2 Coefficient of variation = 14.23 %

4. Reproducibility

4.1 Standard deviation SR = 12.9980

4.2 Coefficient of variation = 28.60 %

Job 41 : 2,2',4,5,5'-pentachloorbifenyI



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
20	0.000000		G	-	-	-	-
19	0.000000		G	C	LE	GDE	5718
14	0.000000		G	-	-	-	-
16	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
17	0.000000		G	-	-	-	-
12	27.000000	-1.516491	B	LS	LE	GDE	Eigen
4	31.000000	-1.187727	B	-	LE	GDE	Eigen
11	33.000000	-1.023345	B	SC	LE	GDE	5734
10	33.500000	-0.982250	A	-	S	GSM	Eigen
1	40.500000	-0.406913	A	SC	LE	GDE	5734
6	45.500000	0.004041	A	C	LA	GDM	5734
7	49.550000	0.336914	A	SC	LE	GDE	5734
3	52.515000	0.580610	A	-	-	-	-
9	53.750000	0.682116	A	SC	-	GDE	Eigen
2	57.095000	0.957045	A	A	LE	GDE	5718
5	60.000000	1.195809	B	-	LH	GDE	Eigen
18	62.000000	1.360191	B	C	LE	GSM	Eigen
8	210.000000		W	-	LA	GSM	Eigen

General Mean = 45.4508

Between Lab standard deviation = 11.2745

SL

Coefficient of variation = 24.81 %

Number of Laboratories = 12

A: Number of laboratories with IZI-scores between 0 and 1 ; 7

B: Number of laboratories with IZI-scores between 1 and 2 ; 5

C: Number of laboratories with IZI-scores between 2 and 3 ; 0

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 42 :20503 en 20504

2,3',4,4',5-pentachloorbifeny, PCB118 in ug/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 30.000000 * 28.000000	29.000000	4.876598
2	* 31.600000 * 34.400000	33.000000	5.999694
3	* 32.820000 * 51.780000	42.300000	31.694432
4	* 22.000000 * 20.000000	21.000000	6.734350
5	* 49.000000 * 30.000000	39.500000	34.012731
6	* 32.000000 * 28.200000	30.100000	8.926929
7	* 22.400000 * 22.000000	22.200000	1.274066
8	* 97.000000 * 150.000000	123.500000	30.345473
9	* 42.100000 * 45.300000	43.700000	5.177899
10	* 21.000000 * 16.000000	18.500000	19.110994
11	* 25.000000 * 23.000000	24.000000	5.892557
12	* 19.000000 * 19.000000	19.000000	0.000000
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 31.000000 * 31.000000	31.000000	0.000000
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

13 laboratory observations

Maximum absolute difference from Normal distribution: 0.324366923077, Critical value: 0.432, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
1	8	123.500000	37.476659	0.780460	0.629175

Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 1

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 29.4417

3. Repeatability

3.1. Standard deviation Sr = 5.7379

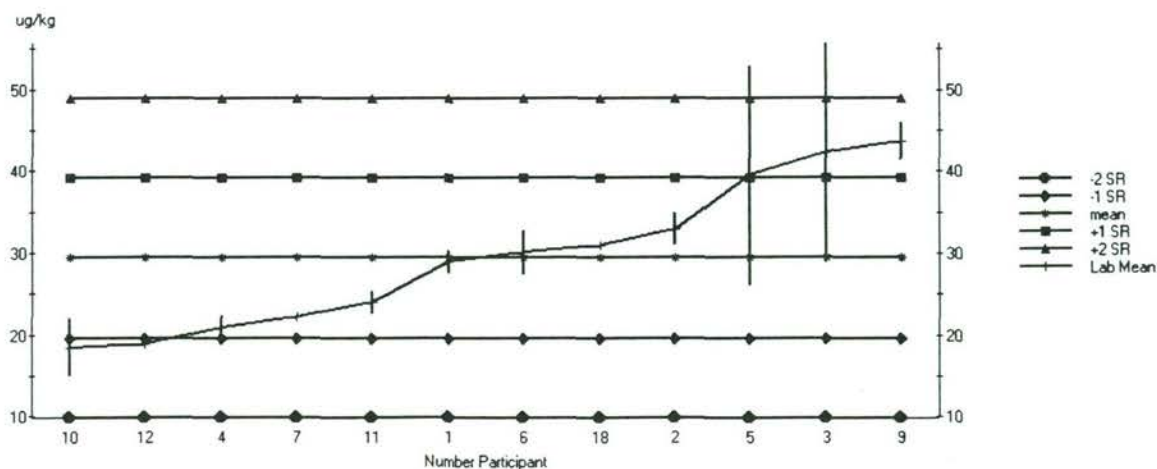
3.2 Coefficient of variation = 19.49 %

4. Reproducibility

4.1 Standard deviation SR = 9.7639

4.2 Coefficient of variation = 33.16 %

Job 42 :2,3',4,4',5-pentachlooribiteryl



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
20	0.000000		G	-	-	-	-
19	0.000000		G	C	LE	GDE	5718
14	0.000000		G	-	-	-	-
16	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
17	0.000000		G	-	-	-	-
10	18.500000	-1.232034	B	-	S	GSM	Eigen
12	19.000000	-1.175734	B	LS	LE	GDE	Eigen
4	21.000000	-0.950534	A	-	LE	GDE	Eigen
7	22.200000	-0.815413	A	SC	LE	GDE	5734
11	24.000000	-0.612733	A	SC	LE	GDE	5734
1	29.000000	-0.049732	A	SC	LE	GDE	5734
6	30.100000	0.074128	A	C	LA	GDM	5734
18	31.000000	0.175469	A	C	LE	GSM	Eigen
2	33.000000	0.400669	A	A	LE	GDE	5718
5	39.500000	1.132571	B	-	LH	GDE	Eigen
3	42.300000	1.447851	B	-	-	-	-
9	43.700000	1.605492	B	SC	-	GDE	Eigen
8	123.500000		W	-	LA	GSM	Eigen

General Mean = 29.4417

Between Lab standard deviation = 7.9000

SL

Coefficient of variation = 26.83 %

Number of Laboratories = 12

A: Number of laboratories with IZI-scores between 0 and 1 ; 7

B: Number of laboratories with IZI-scores between 1 and 2 ; 5

C: Number of laboratories with IZI-scores between 2 and 3 ; 0

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 43 :20503 en 20504

2,2',3,4,4',5'-hexachloorbifeny, PCB138 in ug/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 33.000000 * 31.000000	32.000000	4.419417
2	* 41.700000 * 46.700000	44.200000	7.998945
3	* 25.100000 * 45.260000	35.180000	40.520957
4	* 24.000000 * 23.000000	23.500000	3.008965
5	* 44.000000 * 27.000000	35.500000	33.861451
6	* 26.800000 * 27.600000	27.200000	2.079726
7	* 36.200000 * 35.400000	35.800000	1.580127
8	* 120.000000 * 170.000000	145.000000	24.382992
9	* 43.400000 * 46.100000	44.750000	4.266343
10	* 21.000000 * 16.000000	18.500000	19.110994
11	* 32.000000 * 22.000000	27.000000	26.189140
12	* 16.000000 * 16.000000	16.000000	0.000000
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 29.000000 * 28.000000	28.500000	2.481076
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

13 laboratory observations

Maximum absolute difference from Normal distribution: 0.359516923077, Critical value: 0.432, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
1	8	145.000000	35.355339	0.744049	0.629175

Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 1

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 30.6775

3. Repeatability

3.1. Standard deviation Sr = 5.9861

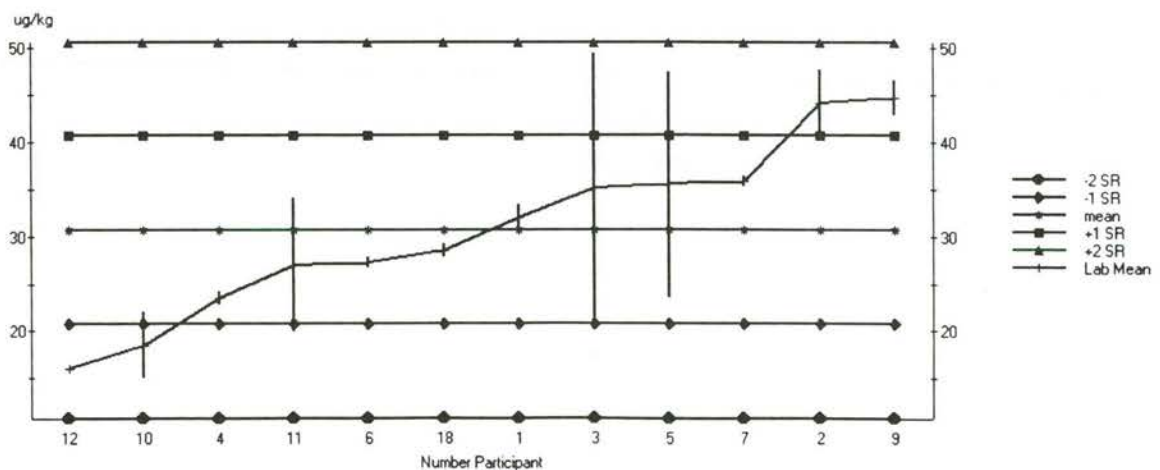
3.2 Coefficient of variation = 19.51 %

4. Reproducibility

4.1 Standard deviation SR = 9.9777

4.2 Coefficient of variation = 32.52 %

Job 43:2,2',3,4,4',5'-hexachloorbifeny



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
20	0.000000		G	-	-	-	-
19	0.000000		G	C	LE	GDE	5718
14	0.000000		G	-	-	-	-
16	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
17	0.000000		G	-	-	-	-
12	16.000000	-1.624458	B	LS	LE	GDE	Eigen
10	18.500000	-1.347767	B	-	S	GSM	Eigen
4	23.500000	-0.794383	A	-	LE	GDE	Eigen
11	27.000000	-0.407014	A	SC	LE	GDE	5734
6	27.200000	-0.384879	A	C	LA	GDM	5734
18	28.500000	-0.240999	A	C	LE	GSM	Eigen
1	32.000000	0.146370	A	SC	LE	GDE	5734
3	35.180000	0.498322	A	-	-	-	-
5	35.500000	0.533739	A	-	LH	GDE	Eigen
7	35.800000	0.566942	A	SC	LE	GDE	5734
2	44.200000	1.496627	B	A	LE	GDE	5718
9	44.750000	1.557499	B	SC	-	GDE	Eigen
8	145.000000		W	-	LA	GSM	Eigen

General Mean = 30.6775

Between Lab standard deviation = 7.9825

SL

Coefficient of variation = 26.02 %

Number of Laboratories = 12

A: Number of laboratories with IZI-scores between 0 and 1 ; 8

B: Number of laboratories with IZI-scores between 1 and 2 ; 4

C: Number of laboratories with IZI-scores between 2 and 3 ; 0

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 44 :20503 en 20504

2,2',4,4',5,5'-hexachloorbifenyyl, PCB153 in ug/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 50.000000 * 47.000000	48.500000	4.373856
2	* 8.560000 * 11.900000	10.230000	23.086380
3	* 44.190000 * 77.880000	61.035000	39.030765
4	* 35.000000 * 34.000000	34.500000	2.049585
5	* 64.000000 * 42.000000	53.000000	29.351602
6	* 48.300000 * 50.500000	49.400000	3.149059
7	* 51.600000 * 47.300000	49.450000	6.148755
8	* 190.000000 * 280.000000	235.000000	27.080685
9	* 51.800000 * 57.000000	54.400000	6.759109
10	* 47.000000 * 32.000000	39.500000	26.852156
11	* 32.000000 * 26.000000	29.000000	14.629795
12	* 27.000000 * 28.000000	27.500000	2.571297
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 53.000000 * 51.000000	52.000000	2.719641
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

13 laboratory observations

Maximum absolute difference from Normal distribution: 0.399146923077, Critical value: 0.432, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
1	8	235.000000	63.639610	0.805446	0.629175

Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 1

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 42.3763

3. Repeatability

3.1. Standard deviation Sr = 9.0290

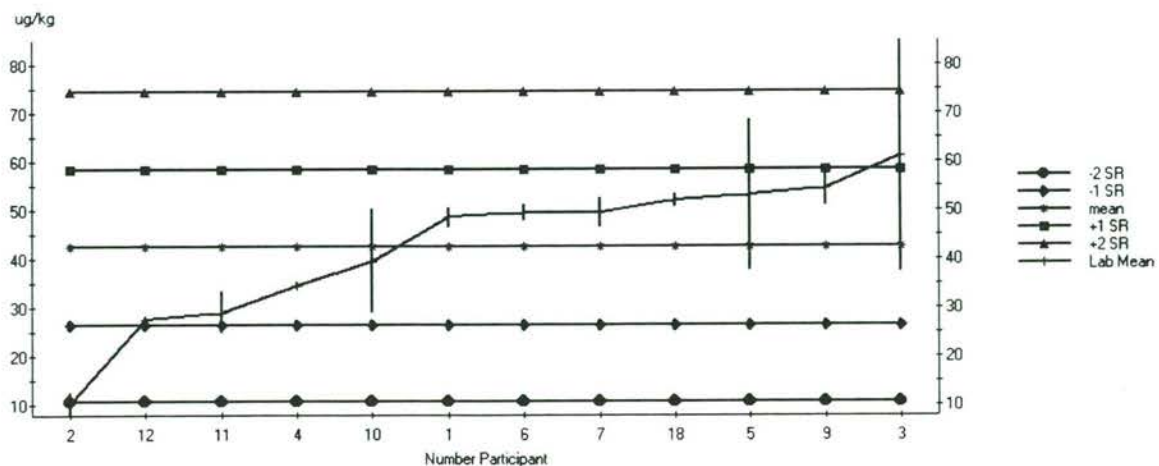
3.2 Coefficient of variation = 21.31 %

4. Reproducibility

4.1 Standard deviation SR = 15.9184

4.2 Coefficient of variation = 37.56 %

Job 44 :2,2',4,4',5,5'-hexachloorbifenyI



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
20	0.000000		G	-	-	-	-
19	0.000000		G	C	LE	GDE	5718
14	0.000000		G	-	-	-	-
16	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
17	0.000000		G	-	-	-	-
2	10.230000	-2.204513	C	A	LE	GDE	5718
12	27.500000	-1.020178	B	LS	LE	GDE	Eigen
11	29.000000	-0.917311	A	SC	LE	GDE	5734
4	34.500000	-0.540134	A	-	LE	GDE	Eigen
10	39.500000	-0.197246	A	-	S	GSM	Eigen
1	48.500000	0.419952	A	SC	LE	GDE	5734
6	49.400000	0.481672	A	C	LA	GDM	5734
7	49.450000	0.485101	A	SC	LE	GDE	5734
18	52.000000	0.659974	A	C	LE	GSM	Eigen
5	53.000000	0.728551	A	-	LH	GDE	Eigen
9	54.400000	0.824560	A	SC	-	GDE	Eigen
3	61.035000	1.279573	B	-	-	-	-
8	235.000000		W	-	LA	GSM	Eigen

General Mean = 42.3763

Between Lab standard deviation = 13.1101

SL

Coefficient of variation = 30.94 %

Number of Laboratories = 12

A: Number of laboratories with IZI-scores between 0 and 1 ; 9

B: Number of laboratories with IZI-scores between 1 and 2 ; 2

C: Number of laboratories with IZI-scores between 2 and 3 ; 1

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 45 :20503 en 20504

2,2',3,4,4',5,5'-heptachloorbifenyyl, PCB180 in ug/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 22.000000 * 19.000000	20.500000	10.347904
2	* 21.700000 * 23.200000	22.450000	4.724544
3	* 15.570000 * 21.690000	18.630000	23.228629
4	* 15.000000 * 16.000000	15.500000	4.561979
5	* 27.000000 * 19.000000	23.000000	24.595018
6	* 21.100000 * 20.400000	20.750000	2.385420
7	* 19.300000 * 17.700000	18.500000	6.115518
8	* 94.000000 * 120.000000	107.000000	17.182034
9	* 22.300000 * 23.700000	23.000000	4.304128
10	* 17.000000 * 14.000000	15.500000	13.685938
11	* 24.000000 * 19.000000	21.500000	16.444344
12	* 14.000000 * 14.000000	14.000000	0.000000
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 23.000000 * 26.000000	24.500000	8.658450
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

13 laboratory observations

Maximum absolute difference from Normal distribution: 0.454966923077, Critical value: 0.432, KS-test failed

Kolmogorov-Smirno

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
1	8	107.000000	18.384776	0.806958	0.629175

Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 1

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 19.8192

3. Repeatability

3.1. Standard deviation Sr = 2.5958

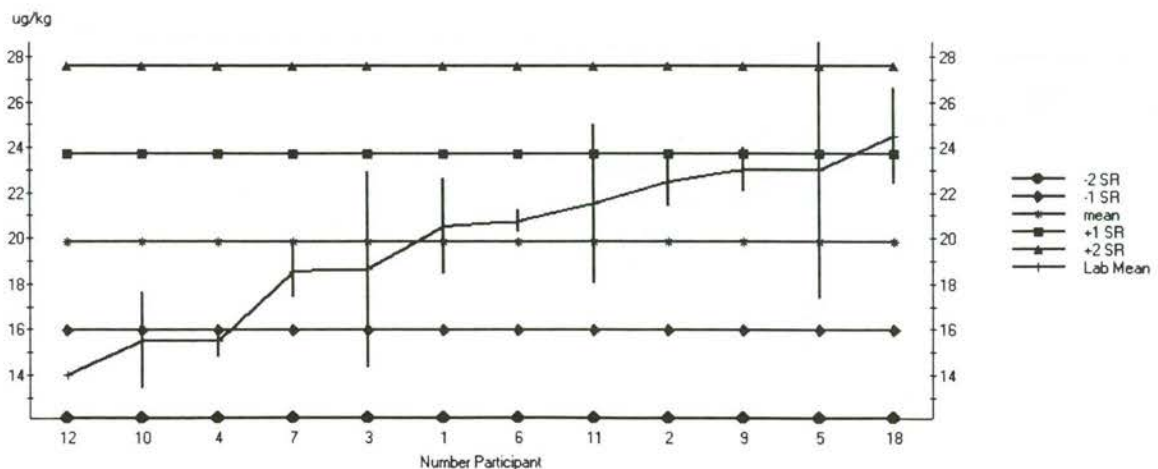
3.2 Coefficient of variation = 13.10 %

4. Reproducibility

4.1 Standard deviation SR = 3.8684

4.2 Coefficient of variation = 19.52 %

Job 45 :2,2',3,4,4',5,5'-heptachloorbiferyl



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
20	0.000000		G	-	-	-	-
19	0.000000		G	C	LE	GDE	5718
14	0.000000		G	-	-	-	-
16	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
17	0.000000		G	-	-	-	-
12	14.000000	-1.708904	B	LS	LE	GDE	Eigen
10	15.500000	-1.268402	B	-	S	GSM	Eigen
4	15.500000	-1.268402	B	-	LE	GDE	Eigen
7	18.500000	-0.387397	A	SC	LE	GDE	5734
3	18.630000	-0.349220	A	-	-	-	-
1	20.500000	0.199939	A	SC	LE	GDE	5734
6	20.750000	0.273356	A	C	LA	GDM	5734
11	21.500000	0.493607	A	SC	LE	GDE	5734
2	22.450000	0.772592	A	A	LE	GDE	5718
9	23.000000	0.934110	A	SC	-	GDE	Eigen
5	23.000000	0.934110	A	-	LH	GDE	Eigen
18	24.500000	1.374612	B	C	LE	GSM	Eigen
8	107.000000		W	-	LA	GSM	Eigen

General Mean = 19.8192

Between Lab standard deviation = 2.8682

SL

Coefficient of variation = 14.47 %

Number of Laboratories = 12

A: Number of laboratories with IZI-scores between 0 and 1 ; 8

B: Number of laboratories with IZI-scores between 1 and 2 ; 4

C: Number of laboratories with IZI-scores between 2 and 3 ; 0

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 46 :20503 en 20504

2,4,4'-trichloorbifenyyl, PCB28 in ug/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 70.000000 * 65.000000	67.500000	5.237828
2	* 111.000000 * 119.000000	115.000000	4.919004
3	* 60.900000 * 89.290000	75.095000	26.732488
4	* 48.000000 * 45.000000	46.500000	4.561979
5	* 75.000000 * 64.000000	69.500000	11.191618
6	* 87.200000 * 89.400000	88.300000	1.761761
7	* 73.200000 * 82.800000	78.000000	8.702853
8	* 420.000000 * 560.000000	490.000000	20.203051
9	* 95.500000 * 106.000000	100.750000	7.369351
10	* 110.000000 * 70.000000	90.000000	31.426968
11	* 43.000000 * 43.000000	43.000000	0.000000
12	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 68.000000 * 82.000000	75.000000	13.199327
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

12 laboratory observations

Maximum absolute difference from Normal distribution: 0.408686666667, Critical value: 0.449, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
1	8	490.000000	98.994949	0.866174	0.660491

Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 1

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 77.1495

3. Repeatability

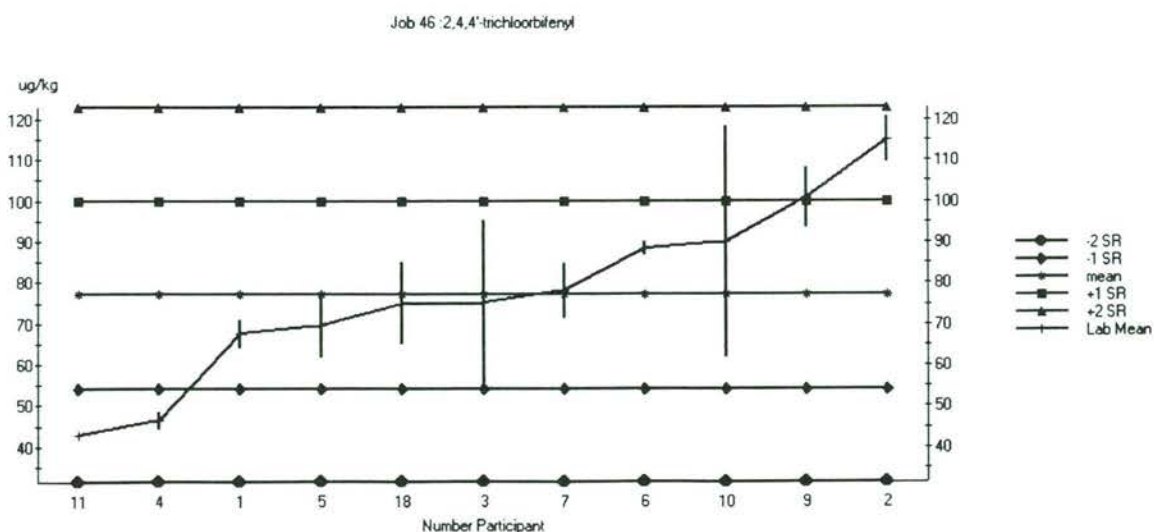
3.1. Standard deviation Sr = 11.7323

3.2 Coefficient of variation = 15.21 %

4. Reproducibility

4.1 Standard deviation SR = 22.8782

4.2 Coefficient of variation = 29.65 %



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
20	0.000000		G	-	-	-	-
19	0.000000		G	C	LE	GDE	5718
14	0.000000		G	-	-	-	-
16	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
12	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
17	0.000000		G	-	-	-	-
11	43.000000	-1.601680	B	SC	LE	GDE	5734
4	46.500000	-1.437523	B	-	LE	GDE	Eigen
1	67.500000	-0.452582	A	SC	LE	GDE	5734
5	69.500000	-0.358778	A	-	LH	GDE	Eigen
18	75.000000	-0.100818	A	C	LE	GSM	Eigen
3	75.095000	-0.096362	A	-	-	-	-
7	78.000000	0.039888	A	SC	LE	GDE	5734
6	88.300000	0.522978	A	C	LA	GDM	5734
10	90.000000	0.602711	A	-	S	GSM	Eigen
9	100.750000	1.106907	B	SC	-	GDE	Eigen
2	115.000000	1.775260	B	A	LE	GDE	5718
8	490.000000		W	-	LA	GSM	Eigen

General Mean = 77.1495

Between Lab standard deviation = 19.6409

SL

Coefficient of variation = 25.46 %

Number of Laboratories = 11

A: Number of laboratories with IZI-scores between 0 and 1 ; 7

B: Number of laboratories with IZI-scores between 1 and 2 ; 4

C: Number of laboratories with IZI-scores between 2 and 3 ; 0

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 47 :20503 en 20504

2,2',5,5'-tetrachloorbifenyyl, PCB52 in ug/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 45.000000 * 41.000000	43.000000	6.577737
2	* 55.900000 * 59.300000	57.600000	4.173894
3	* 42.770000 * 59.620000	51.195000	23.273267
4	* 36.000000 * 34.000000	35.000000	4.040610
5	* 47.000000 * 38.000000	42.500000	14.974026
6	* 45.600000 * 50.200000	47.900000	6.790587
7	* 41.200000 * 41.200000	41.200000	0.000000
8	* 240.000000 * 340.000000	290.000000	24.382992
9	* 52.000000 * 57.000000	54.500000	6.487218
10	* 47.000000 * 26.000000	36.500000	40.682856
11	* 28.000000 * 28.000000	28.000000	0.000000
12	* 25.000000 * 26.000000	25.500000	2.772968
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 51.000000 * 51.000000	51.000000	0.000000
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

13 laboratory observations

Maximum absolute difference from Normal distribution: 0.447006923077, Critical value: 0.432, KS-test failed

Kolmogorov-Smirno

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
1	8	290.000000	70.710678	0.918726	0.629175

Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 1

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 42.8246

3. Repeatability

3.1. Standard deviation Sr = 6.0713

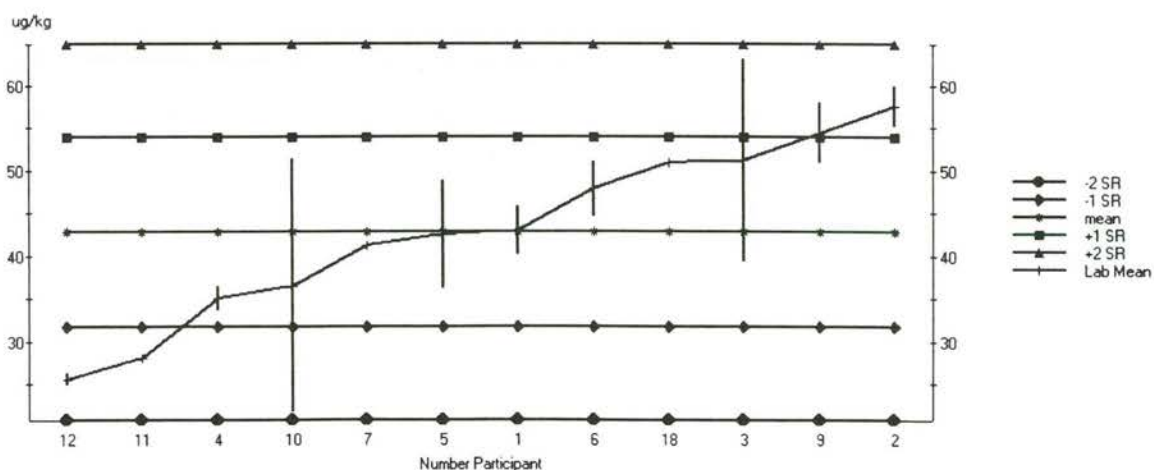
3.2 Coefficient of variation = 14.18 %

4. Reproducibility

4.1 Standard deviation SR = 11.0533

4.2 Coefficient of variation = 25.81 %

Job 47 :2,2',5,5'-tetrachloorbifenyI



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
20	0.000000		G	-	-	-	-
19	0.000000		G	C	LE	GDE	5718
14	0.000000		G	-	-	-	-
16	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
17	0.000000		G	-	-	-	-
12	25.500000	-1.700899	B	LS	LE	GDE	Eigen
11	28.000000	-1.455453	B	SC	LE	GDE	5734
4	35.000000	-0.768205	A	-	LE	GDE	Eigen
10	36.500000	-0.620937	A	-	S	GSM	Eigen
7	41.200000	-0.159499	A	SC	LE	GDE	5734
5	42.500000	-0.031867	A	-	LH	GDE	Eigen
1	43.000000	0.017222	A	SC	LE	GDE	5734
6	47.900000	0.498296	A	C	LA	GDM	5734
18	51.000000	0.802649	A	C	LE	GSM	Eigen
3	51.195000	0.821794	A	-	-	-	-
9	54.500000	1.146273	B	SC	-	GDE	Eigen
2	57.600000	1.450626	B	A	LE	GDE	5718
8	290.000000		W	-	LA	GSM	Eigen

General Mean = 42.8246

Between Lab standard deviation = 9.2366

SL

Coefficient of variation = 21.57 %

Number of Laboratories = 12

A: Number of laboratories with IZI-scores between 0 and 1 ; 8

B: Number of laboratories with IZI-scores between 1 and 2 ; 4

C: Number of laboratories with IZI-scores between 2 and 3 ; 0

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 48 :20503 en 20504
 24'DDE (o,p'-DDE), 24DDE in ug/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
2	* 4.000000 * 4.000000	0.000000	0.000000 - N.V.
3	* 15.560000 * 16.590000	16.075000	4.530762
4	* 19.000000 * 10.000000	19.000000	0.000000 - N.V.
5	* 5.000000 * 5.000000	0.000000	0.000000 - N.V.
6	* 20.000000 * 20.000000	0.000000	0.000000 - N.V.
7	* 0.500000 * 0.500000	0.000000	0.000000 - N.V.
8	* 6.000000 * 10.000000	0.000000	0.000000 - N.V.
9	* 0.000700 * 0.000700	0.000000	0.000000 - N.V.
10	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
11	* 5.000000 * 5.000000	0.000000	0.000000 - N.V.
12	* 0.050000 * 0.050000	0.000000	0.000000 - N.V.
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 0.002500 * 0.002500	0.000000	0.000000 - N.V.
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Number of available laboratory observations less than 5, no statistical analysis

Job 49 :20503 en 20504

24'DDT (o,p'-DDT), 24DDT in ug/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
2	* 4.000000 * 4.190000	4.190000	0.000000 - N.V.
3	* 9.360000 * 9.123000	9.241500	1.813389
4	* 10.000000 * 10.000000	0.000000	0.000000 - N.V.
5	* 5.000000 * 5.000000	0.000000	0.000000 - N.V.
6	* 20.000000 * 20.000000	0.000000	0.000000 - N.V.
7	* 0.500000 * 0.500000	0.000000	0.000000 - N.V.
8	* 20.000000 * 15.000000	0.000000	0.000000 - N.V.
9	* 0.000500 * 0.000500	0.000000	0.000000 - N.V.
10	* 1.000000 * 1.000000	0.000000	0.000000 - N.V.
11	* 5.000000 * 5.000000	0.000000	0.000000 - N.V.
12	* 0.050000 * 0.050000	0.000000	0.000000 - N.V.
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 3.700000 * 0.002500	3.700000	0.000000 - N.V.
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Number of available laboratory observations less than 5, no statistical analysis

Job 50 :20503 en 20504
PentaChloorBenzeen, QCB in ug/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 5.000000 * 4.700000	4.850000	4.373856
2	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
3	* 4.378000 * 4.592000	4.485000	3.373932
4	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
5	* 4.000000 * 4.000000	4.000000	0.000000
6	* 20.000000 * 20.000000	0.000000	0.000000 - N.V.
7	* 5.020000 * 4.800000	4.910000	3.168299
8	* 17.000000 * 25.000000	21.000000	26.937401
9	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
10	* 6.000000 * 6.000000	6.000000	0.000000
11	* 12.000000 * 12.000000	12.000000	0.000000
12	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 5.800000 * 6.200000	6.000000	4.714045
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

8 laboratory observations

Maximum absolute difference from Normal distribution: 0.37552, Critical value: 0.542, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
1	8	21.000000	5.656854	0.994651	0.883286

Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
1	11	S	12.000000	0.000000	2.183033	2.139000

Samenvatting

1. Eliminations due to

1.1 Repeatability 1

1.2 Reproducibility 1

1.3 Manual rejected

2. General Mean = 5.0408

3. Repeatability

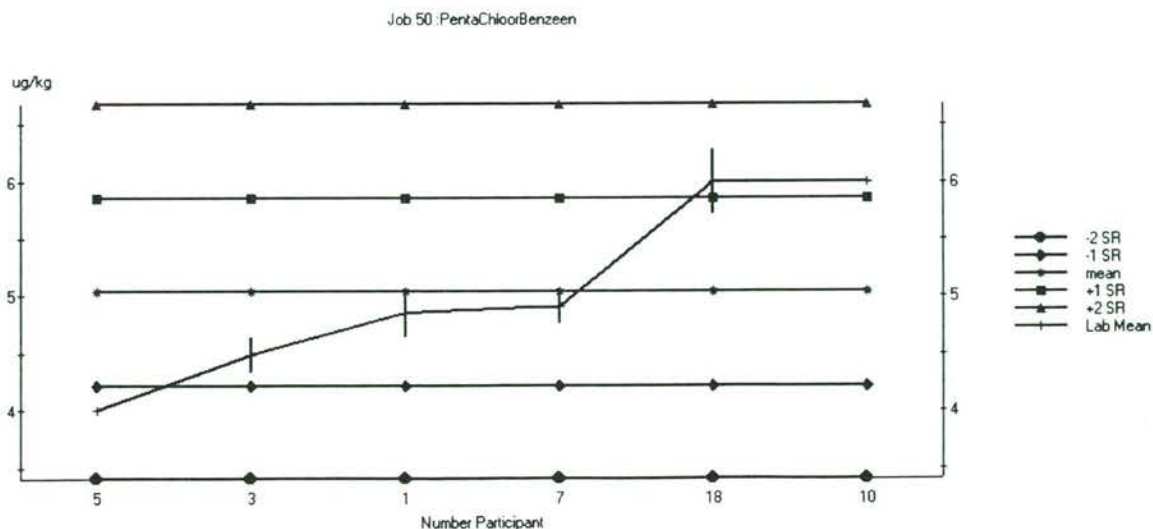
3.1. Standard deviation Sr = 0.1694

3.2 Coefficient of variation = 3.36 %

4. Reproducibility

4.1 Standard deviation SR = 0.8195

4.2 Coefficient of variation = 16.26 %



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
9	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
19	0.000000		G	C	LE	GDE	5718
14	0.000000		G	-	-	-	-
16	0.000000		G	-	-	-	-
6	0.000000		G	C	LA	GDM	5734
15	0.000000		G	-	-	-	-
12	0.000000		G	-	-	-	-
2	0.000000		G	-	-	-	-
4	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
17	0.000000		G	-	-	-	-
5	4.000000	-1.283939	B	-	LH	GDE	Eigen
3	4.485000	-0.685658	A	-	-	-	-
1	4.850000	-0.235406	A	SC	LE	GDE	5734
7	4.910000	-0.161392	A	SC	LE	GDE	5734
10	6.000000	1.183197	B	-	S	GSM	Eigen
18	6.000000	1.183197	B	C	LE	GSM	Eigen
11	12.000000		R	SC	LE	GDE	5734
8	21.000000		W	-	LA	GSM	Eigen

General Mean = 5.0408

Between Lab standard deviation = 0.8018

SL

Coefficient of variation = 15.91 %

Number of Laboratories = 6

A: Number of laboratories with IZI-scores between 0 and 1 ; 3

B: Number of laboratories with IZI-scores between 1 and 2 ; 3

C: Number of laboratories with IZI-scores between 2 and 3 ; 0

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 51 :20503 en 20504

Som Ballschmitter PCB's., Tot PCB in ug/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 290.000000 * 272.000000	281.000000	4.529510
2	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
3	* 262.600000 * 409.300000	335.950000	30.877382
4	* 212.000000 * 202.000000	207.000000	3.415975
5	* 372.000000 * 274.000000	323.000000	21.454014
6	* 306.000000 * 312.000000	309.000000	1.373023
7	* 292.300000 * 297.100000	294.700000	1.151718
8	* 1300.000000 * 1900.000000	1600.000000	26.516504
9	* 358.100000 * 391.600000	374.850000	6.319348
10	* 300.000000 * 200.000000	250.000000	28.284271
11	* 216.000000 * 195.000000	205.500000	7.225909
12	* 127.000000 * 131.000000	129.000000	2.192579
13	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
17	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
18	* 317.000000 * 331.000000	324.000000	3.055400
19	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000 * 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

12 laboratory observations

Maximum absolute difference from Normal distribution: 0.424646666667, Critical value: 0.449, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
1	8	1600.000000	424.264069	0.892452	0.660491

Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 1

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 275.8182

3. Repeatability

3.1. Standard deviation Sr = 44.4068

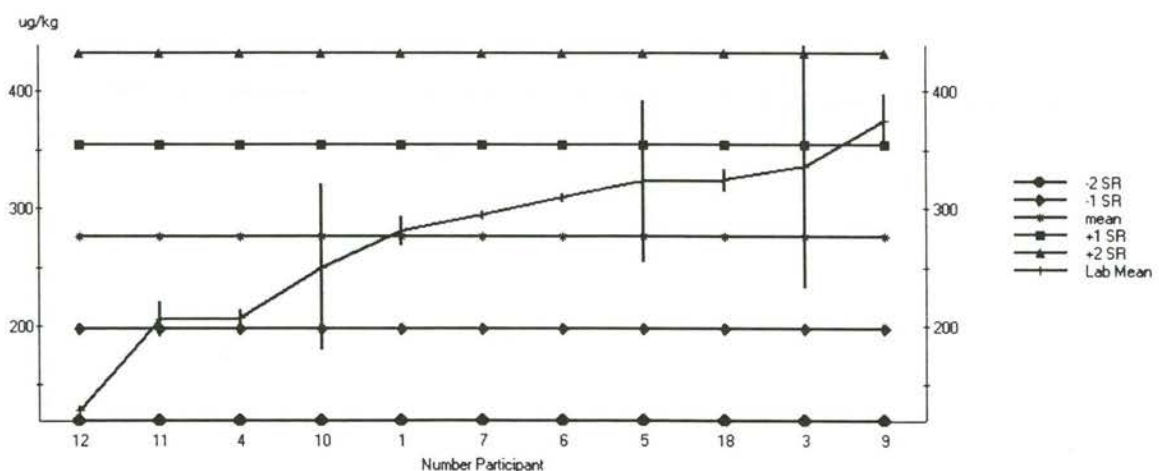
3.2 Coefficient of variation = 16.10 %

4. Reproducibility

4.1 Standard deviation SR = 78.2418

4.2 Coefficient of variation = 28.37 %

Job 51 :Som Ballschmitter PCB's.



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
20	0.000000		G	-	-	-	-
19	0.000000		G	-	-	-	5718
14	0.000000		G	-	-	-	-
16	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
2	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
17	0.000000		G	-	-	-	-
12	129.000000	-2.048690	C	LS	LE	GDE	Eigen
11	205.500000	-0.981215	A	SC	LE	GDE	5734
4	207.000000	-0.960284	A	-	LE	GDE	Eigen
10	250.000000	-0.360265	A	-	S	GSM	Eigen
1	281.000000	0.072307	A	SC	LE	GDE	5734
7	294.700000	0.263475	A	SC	LE	GDE	5734
6	309.000000	0.463017	A	C	LA	GDM	5734
5	323.000000	0.658372	A	-	LH	GDE	Eigen
18	324.000000	0.672325	A	C	LE	GSM	Eigen
3	335.950000	0.839075	A	-	-	-	-
9	374.850000	1.381883	B	SC	-	GDE	Eigen
8	1600.000000		W	-	LA	GSM	Eigen

General Mean = 275.8182

Between Lab standard deviation = 64.4190

SL

Coefficient of variation = 23.36 %

Number of Laboratories = 11

A: Number of laboratories with IZI-scores between 0 and 1 ; 9

B: Number of laboratories with IZI-scores between 1 and 2 ; 1

C: Number of laboratories with IZI-scores between 2 and 3 ; 1

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 52 :20505

Benzo(k)-Fluorantheen, BkF in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.079000	0.079000	0.000000
2	* 0.096500	0.096500	0.000000
3	* 0.082700	0.082700	0.000000
4	* 0.080160	0.080160	0.000000
5	* 0.080000	0.080000	0.000000
6	* 0.100000	0.100000	0.000000
7	* 0.094000	0.094000	0.000000
8	* 0.090000	0.090000	0.000000
9	* 0.096680	0.096680	0.000000
10	* 0.104100	0.104100	0.000000
11	* 0.110000	0.110000	0.000000
12	* 0.094000	0.094000	0.000000
13	* 0.000000	0.000000	0.000000 - N.V.
14	* 0.100000	0.100000	0.000000
15	* 0.000000	0.000000	0.000000 - N.V.
16	* 0.111000	0.111000	0.000000
17	* 0.107500	0.107500	0.000000
18	* 0.000000	0.000000	0.000000 - N.V.
19	* 0.084000	0.084000	0.000000
20	* 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

16 laboratory observations

Maximum absolute difference from Normal distribution: 0.14145, Critical value: 0.392, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
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Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 0

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 0.0944

3. Repeatability

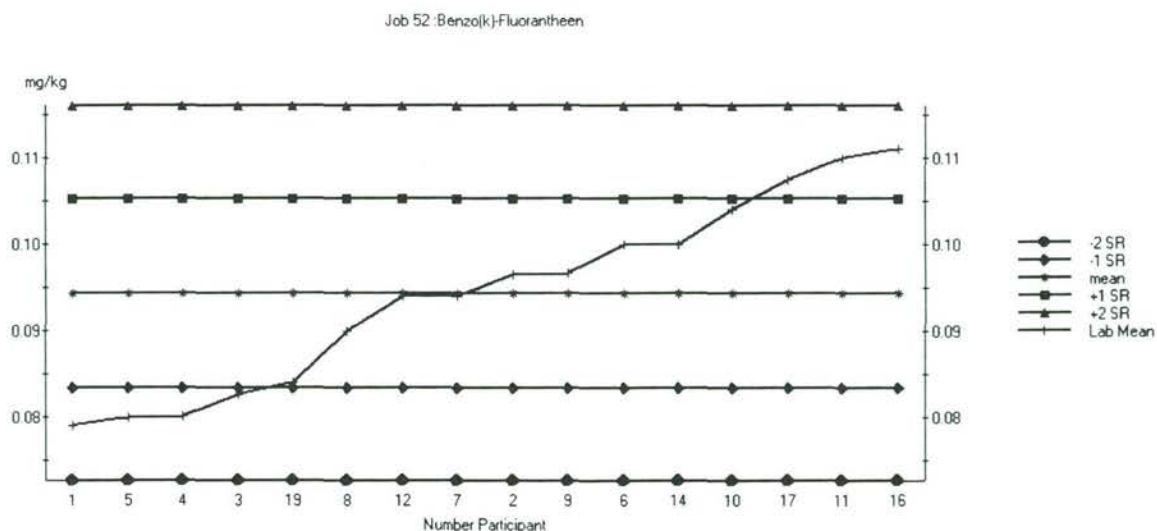
3.1. Standard deviation Sr = 0.0000

3.2 Coefficient of variation = 0.00 %

4. Reproducibility

4.1 Standard deviation SR = 0.0109

4.2 Coefficient of variation = 11.51 %



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
18	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
1	0.079000	-1.413736	B	C	LE	LMC	Eigen
5	0.080000	-1.321651	B	-	LH	LMC	Eigen
4	0.080160	-1.306917	B	-	LE	LMC	Eigen
3	0.082700	-1.073021	B	-	-	-	-
19	0.084000	-0.953310	A	C	LE	LUF	5771
8	0.090000	-0.400800	A	-	LA	LMC	Eigen
12	0.094000	-0.032460	A	-	L	LMC	Eigen
7	0.094000	-0.032460	A	SC	LE	LMD	5771
2	0.096500	0.197753	A	-	LA	LUF	5771
9	0.096680	0.214328	A	-	-	LMC	5771
14	0.100000	0.520050	A	-	-	-	-
6	0.100000	0.520050	A	-	LA	LMC	Eigen
10	0.104100	0.897599	A	-	S	LMC	5771
17	0.107500	1.210688	B	-	-	-	-
11	0.110000	1.440901	B	C	LE	LMC	5771
16	0.111000	1.532986	B	-	Z	LUF	Eigen

General Mean = 0.0944

Between Lab standard deviation = 0.0109

SL

Coefficient of variation = 11.51 %

Number of Laboratories = 16

A: Number of laboratories with |ZI|-scores between 0 and 1 ; 9

B: Number of laboratories with |ZI|-scores between 1 and 2 ; 7

C: Number of laboratories with |ZI|-scores between 2 and 3 ; 0

D: Number of laboratories with |ZI|-scores larger then 3 ; 0

Job 53 :20505

Naftaleen, Naf in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.030000	0.030000	0.000000
2	* 0.045000	0.045000	0.000000
3	* 0.020000	0.000000	0.000000 - N.V.
4	* 0.049640	0.049640	0.000000
5	* 0.050000	0.000000	0.000000 - N.V.
6	* 0.062500	0.062500	0.000000
7	* 0.062000	0.062000	0.000000
8	* 0.100000	0.000000	0.000000 - N.V.
9	* 0.047290	0.047290	0.000000
10	* 0.054340	0.054340	0.000000
11	* 0.180000	0.000000	0.000000 - N.V.
12	* 0.130000	0.130000	0.000000
13	* 0.000000	0.000000	0.000000 - N.V.
14	* 0.130000	0.130000	0.000000
15	* 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000	0.000000	0.000000 - N.V.
17	* 0.098100	0.098100	0.000000
18	* 0.000000	0.000000	0.000000 - N.V.
19	* 0.041000	0.041000	0.000000
20	* 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

11 laboratory observations

Maximum absolute difference from Normal distribution: 0.290832727273, Critical value: 0.468, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
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Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 0

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 0.0682

3. Repeatability

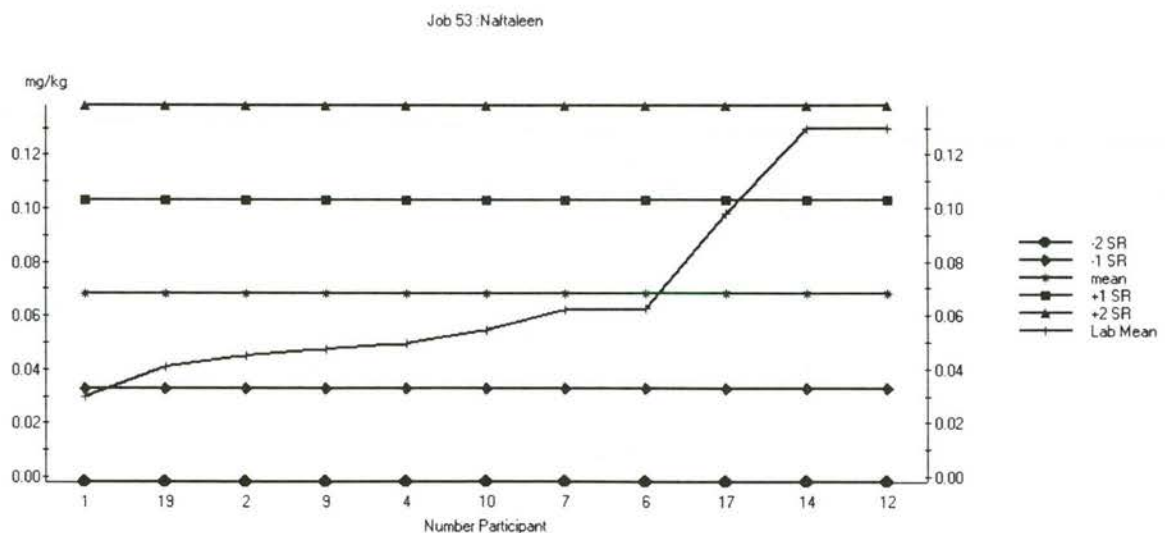
3.1. Standard deviation Sr = 0.0000

3.2 Coefficient of variation = 0.00 %

4. Reproducibility

4.1 Standard deviation SR = 0.0351

4.2 Coefficient of variation = 51.48 %



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
8	0.000000		G	-	LA	LMC	Eigen
11	0.000000		G	C	LE	LMC	5771
18	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
5	0.000000		G	-	LH	LMC	Eigen
16	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
3	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
1	0.030000	-1.087710	B	C	LE	LMC	Eigen
19	0.041000	-0.774249	A	C	LE	LMC	5771
2	0.045000	-0.660263	A	-	LA	LUF	5771
9	0.047290	-0.595006	A	-	-	LMC	5771
4	0.049640	-0.528040	A	-	LE	LMC	Eigen
10	0.054340	-0.394106	A	-	S	LMC	5771
7	0.062000	-0.175823	A	SC	LE	LMD	5771
6	0.062500	-0.161575	A	-	LA	LMC	Eigen
17	0.098100	0.852899	A	-	-	-	-
14	0.130000	1.761937	B	-	-	-	-
12	0.130000	1.761937	B	-	L	LMC	Eigen

General Mean = 0.0682
Between Lab standard deviation = 0.0351
SL
Coefficient of variation = 51.48 %
Number of Laboratories = 11

A: Number of laboratories with |ZI|-scores between 0 and 1 ; 8
B: Number of laboratories with |ZI|-scores between 1 and 2 ; 3
C: Number of laboratories with |ZI|-scores between 2 and 3 ; 0
D: Number of laboratories with |ZI|-scores larger then 3 ; 0

Job 54 :20505
Benzo(a)-Pyreen, BaP in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.079000	0.079000	0.000000
2	* 0.120000	0.120000	0.000000
3	* 0.167400	0.167400	0.000000
4	* 0.118000	0.118000	0.000000
5	* 0.100000	0.100000	0.000000
6	* 0.129000	0.129000	0.000000
7	* 0.142000	0.142000	0.000000
8	* 0.130000	0.130000	0.000000
9	* 0.184000	0.184000	0.000000
10	* 0.159400	0.159400	0.000000
11	* 0.130000	0.130000	0.000000
12	* 0.130000	0.130000	0.000000
13	* 0.000000	0.000000	0.000000 - N.V.
14	* 0.120000	0.120000	0.000000
15	* 0.000000	0.000000	0.000000 - N.V.
16	* 0.144500	0.144500	0.000000
17	* 0.156700	0.156700	0.000000
18	* 0.000000	0.000000	0.000000 - N.V.
19	* 0.108000	0.108000	0.000000
20	* 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

16 laboratory observations

Maximum absolute difference from Normal distribution: 0.15689, Critical value: 0.392, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
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Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 0

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 0.1324

3. Repeatability

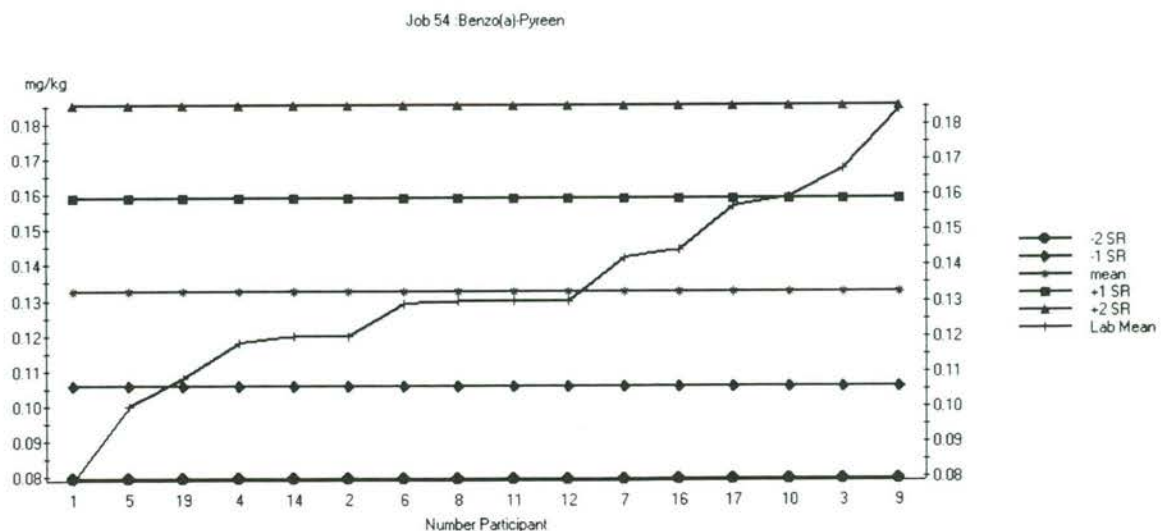
3.1. Standard deviation Sr = 0.0000

3.2 Coefficient of variation = 0.00 %

4. Reproducibility

4.1 Standard deviation SR = 0.0264

4.2 Coefficient of variation = 19.97 %



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
18	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
1	0.079000	-2.018731	C	C	LE	LMC	Eigen
5	0.100000	-1.224476	B	-	LH	LMC	Eigen
19	0.108000	-0.921903	A	C	LE	LUF	5771
4	0.118000	-0.543686	A	-	LE	LMC	Eigen
14	0.120000	-0.468043	A	-	-	-	-
2	0.120000	-0.468043	A	-	LA	LUF	5771
6	0.129000	-0.127648	A	-	LA	LMC	Eigen
8	0.130000	-0.089826	A	-	LA	LMC	Eigen
11	0.130000	-0.089826	A	C	LE	LMC	5771
12	0.130000	-0.089826	A	-	L	LMC	Eigen
7	0.142000	0.364033	A	SC	LE	LMD	5771
16	0.144500	0.458588	A	-	Z	LUF	Eigen
17	0.156700	0.920012	A	-	-	-	-
10	0.159400	1.022130	B	-	S	LMC	5771
3	0.167400	1.324703	B	-	-	-	-
9	0.184000	1.952543	B	-	-	LMC	5771

General Mean = 0.1324

Between Lab standard deviation = 0.0264

SL

Coefficient of variation = 19.97 %

Number of Laboratories = 16

A: Number of laboratories with |ZI|-scores between 0 and 1 ; 11

B: Number of laboratories with |ZI|-scores between 1 and 2 ; 4

C: Number of laboratories with |ZI|-scores between 2 and 3 ; 1

D: Number of laboratories with |ZI|-scores larger then 3 ; 0

Job 55 :20505

Som PAK (10 van VROM), PAK10 in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.000000	0.000000	0.000000 - N.V.
2	* 0.000000	0.000000	0.000000 - N.V.
3	* 1.084500	1.084500	0.000000
4	* 1.154000	1.154000	0.000000
5	* 1.100000	1.100000	0.000000
6	* 1.280000	1.280000	0.000000
7	* 1.280000	1.280000	0.000000
8	* 1.200000	1.200000	0.000000
9	* 1.277000	1.277000	0.000000
10	* 1.523000	1.523000	0.000000
11	* 1.110000	1.110000	0.000000
12	* 1.455000	1.455000	0.000000
13	* 0.000000	0.000000	0.000000 - N.V.
14	* 1.500000	1.500000	0.000000
15	* 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000	0.000000	0.000000 - N.V.
17	* 1.497500	1.497500	0.000000
18	* 0.000000	0.000000	0.000000 - N.V.
19	* 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

12 laboratory observations

Maximum absolute difference from Normal distribution: 0.186606666667, Critical value: 0.449, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
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Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 0

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 1.2884

3. Repeatability

3.1. Standard deviation Sr = 0.0000

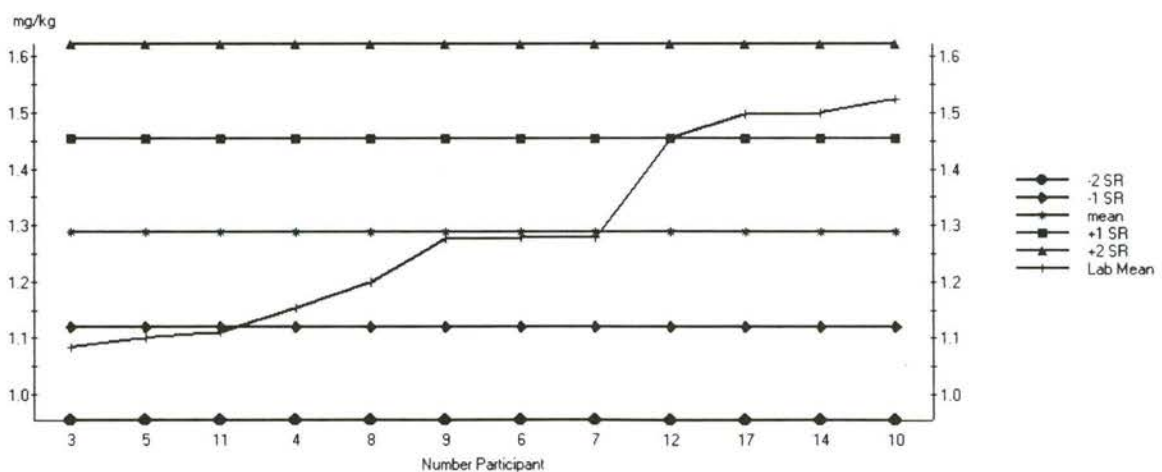
3.2 Coefficient of variation = 0.00 %

4. Reproducibility

4.1 Standard deviation SR = 0.1669

4.2 Coefficient of variation = 12.95 %

Job 55 : Som PAK (10 van VROM)



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
18	0.000000		G	-	-	-	-
1	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
19	0.000000		G	-	-	-	-
16	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
2	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
3	1.084500	-1.221942	B	-	-	-	-
5	1.100000	-1.129060	B	-	LH	LMC	Eigen
11	1.110000	-1.069137	B	C	LE	LMC	5734
4	1.154000	-0.805473	A	-	LE	LMC	Eigen
8	1.200000	-0.529824	A	-	LA	LMC	Eigen
9	1.277000	-0.068413	A	-	-	LMC	5771
6	1.280000	-0.050436	A	-	LA	LMC	Eigen
7	1.280000	-0.050436	A	SC	LE	LMD	5771
12	1.455000	0.998227	A	-	L	LMC	Eigen
17	1.497500	1.252902	B	-	-	-	-
14	1.500000	1.267883	B	-	-	-	-
10	1.523000	1.405707	B	-	S	LMC	5771

General Mean = 1.2884

Between Lab standard deviation = 0.1669

SL

Coefficient of variation = 12.95 %

Number of Laboratories = 12

A: Number of laboratories with IZI-scores between 0 and 1 ; 6

B: Number of laboratories with IZI-scores between 1 and 2 ; 6

C: Number of laboratories with IZI-scores between 2 and 3 ; 0

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 56 :20505
 Fluorantheen, Flu in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.200000	0.200000	0.000000
2	* 0.311600	0.311600	0.000000
3	* 0.248800	0.248800	0.000000
4	* 0.271800	0.271800	0.000000
5	* 0.270000	0.270000	0.000000
6	* 0.308000	0.308000	0.000000
7	* 0.272000	0.272000	0.000000
8	* 0.280000	0.280000	0.000000
9	* 0.276300	0.276300	0.000000
10	* 0.335200	0.335200	0.000000
11	* 0.320000	0.320000	0.000000
12	* 0.310000	0.310000	0.000000
13	* 0.000000	0.000000	0.000000 - N.V.
14	* 0.430000	0.430000	0.000000
15	* 0.000000	0.000000	0.000000 - N.V.
16	* 0.372600	0.372600	0.000000
17	* 0.348100	0.348100	0.000000
18	* 0.000000	0.000000	0.000000 - N.V.
19	* 0.276000	0.276000	0.000000
20	* 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

16 laboratory observations

Maximum absolute difference from Normal distribution: 0.15543, Critical value: 0.392, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
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Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 0

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 0.3019

3. Repeatability

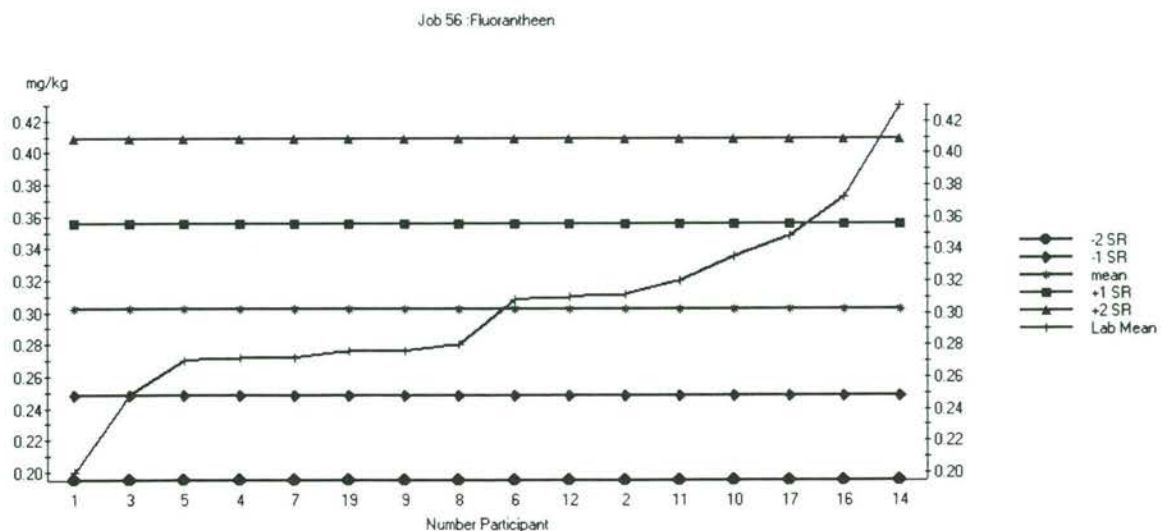
3.1. Standard deviation Sr = 0.0000

3.2 Coefficient of variation = 0.00 %

4. Reproducibility

4.1 Standard deviation SR = 0.0535

4.2 Coefficient of variation = 17.74 %



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
18	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
1	0.200000	-1.903148	B	C	LE	LMC	Eigen
3	0.248800	-0.991729	A	-	-	-	-
5	0.270000	-0.595784	A	-	LH	LMC	Eigen
4	0.271800	-0.562166	A	-	LE	LMC	Eigen
7	0.272000	-0.558431	A	SC	LE	LMD	5771
19	0.276000	-0.483725	A	C	LE	LUF	5771
9	0.276300	-0.478122	A	-	-	LMC	5771
8	0.280000	-0.409018	A	-	LA	LMC	Eigen
6	0.308000	0.113927	A	-	LA	LMC	Eigen
12	0.310000	0.151281	A	-	L	LMC	Eigen
2	0.311600	0.181163	A	-	LA	LUF	5771
11	0.320000	0.338047	A	C	LE	LMC	5771
10	0.335200	0.621932	A	-	S	LMC	5771
17	0.348100	0.862860	A	-	-	-	-
16	0.372600	1.320437	B	-	Z	LUF	Eigen
14	0.430000	2.392476	C	-	-	-	-

General Mean = 0.3019

Between Lab standard deviation = 0.0535

SL

Coefficient of variation = 17.74 %

Number of Laboratories = 16

A: Number of laboratories with IZI-scores between 0 and 1 ; 13

B: Number of laboratories with IZI-scores between 1 and 2 ; 2

C: Number of laboratories with IZI-scores between 2 and 3 ; 1

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 57 :20505
 Antraceen, Ant in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.030000	0.030000	0.000000
2	* 0.031000	0.031000	0.000000
3	* 0.036000	0.036000	0.000000
4	* 0.031330	0.031330	0.000000
5	* 0.030000	0.030000	0.000000
6	* 0.050000	0.000000	0.000000 - N.V.
7	* 0.040000	0.040000	0.000000
8	* 0.050000	0.000000	0.000000 - N.V.
9	* 0.028770	0.028770	0.000000
10	* 0.037440	0.037440	0.000000
11	* 0.040000	0.000000	0.000000 - N.V.
12	* 0.051000	0.051000	0.000000
13	* 0.000000	0.000000	0.000000 - N.V.
14	* 0.038000	0.038000	0.000000
15	* 0.000000	0.000000	0.000000 - N.V.
16	* 0.075160	0.075160	0.000000
17	* 0.035000	0.035000	0.000000
18	* 0.000000	0.000000	0.000000 - N.V.
19	* 0.032000	0.032000	0.000000
20	* 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

13 laboratory observations

Maximum absolute difference from Normal distribution: 0.290483846154, Critical value: 0.432, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
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Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
1	16	S	0.075160	0.000000	2.935349	2.699000

Samenvatting

1. Eliminations due to

1.1 Repeatability 0

1.2 Reproducibility 1

1.3 Manual rejected

2. General Mean = 0.0350

3. Repeatability

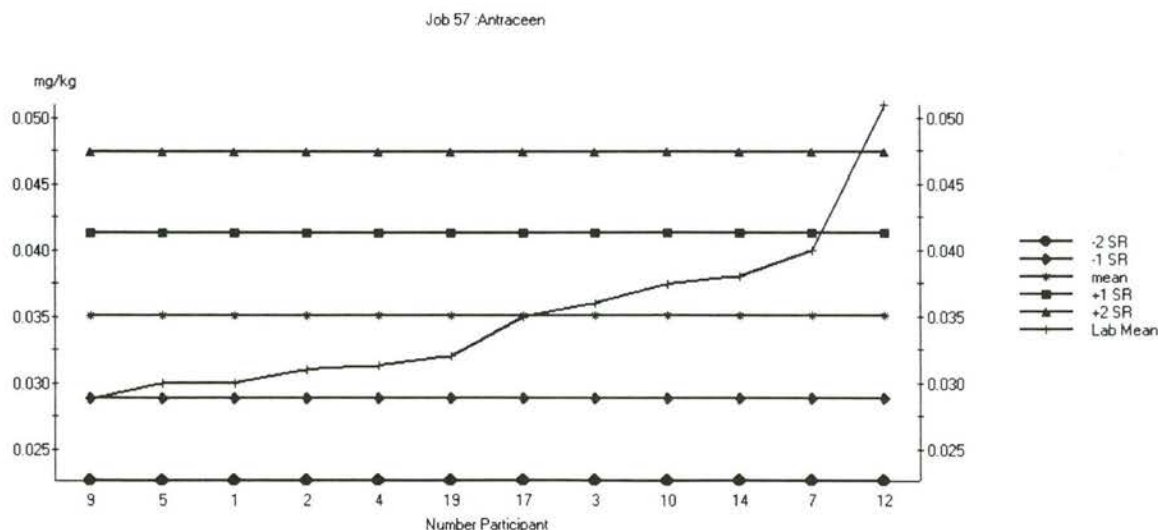
3.1. Standard deviation Sr = 0.0000

3.2 Coefficient of variation = 0.00 %

4. Reproducibility

4.1 Standard deviation SR = 0.0062

4.2 Coefficient of variation = 17.72 %



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
8	0.000000		G	-	LA	LMC	Eigen
11	0.000000		G	C	LE	LMC	5771
18	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
6	0.000000		G	-	LA	LMC	Eigen
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
9	0.028770	-1.010460	B	-	-	LMC	5771
1	0.030000	-0.812394	A	C	LE	LMC	Eigen
5	0.030000	-0.812394	A	-	LH	LMC	Eigen
2	0.031000	-0.651364	A	-	LA	LUF	5771
4	0.031330	-0.598224	A	-	LE	LMC	Eigen
19	0.032000	-0.490335	A	C	LE	LUF	5771
17	0.035000	-0.007246	A	-	-	-	-
3	0.036000	0.153783	A	-	-	-	-
10	0.037440	0.385666	A	-	S	LMC	5771
14	0.038000	0.475842	A	-	-	-	-
7	0.040000	0.797901	A	SC	LE	LMD	5771
12	0.051000	2.569225	C	-	L	LMC	Eigen
16	0.075160		R	-	Z	LUF	Eigen

General Mean = 0.0350

Between Lab standard deviation = 0.0062

SL

Coefficient of variation = 17.72 %

Number of Laboratories = 12

A: Number of laboratories with IZI-scores between 0 and 1 ; 10

B: Number of laboratories with IZI-scores between 1 and 2 ; 1

C: Number of laboratories with IZI-scores between 2 and 3 ; 1

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 58 :20505
 Fluoreen, Flur in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.010000	0.010000	0.000000
2	* 0.050000	0.000000	0.000000 - N.V.
3	* 0.005000	0.000000	0.000000 - N.V.
4	* 0.021160	0.021160	0.000000
5	* 0.050000	0.000000	0.000000 - N.V.
6	* 0.050000	0.000000	0.000000 - N.V.
7	* 0.020000	0.020000	0.000000
8	* 0.050000	0.000000	0.000000 - N.V.
9	* 0.015220	0.015220	0.000000
10	* 0.018720	0.018720	0.000000
11	* 0.040000	0.000000	0.000000 - N.V.
12	* 0.034000	0.034000	0.000000
13	* 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000	0.000000	0.000000 - N.V.
17	* 0.030800	0.030800	0.000000
18	* 0.000000	0.000000	0.000000 - N.V.
19	* 0.000000	0.000000	0.000000 - N.V.
20	* 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

7 laboratory observations

Maximum absolute difference from Normal distribution: 0.226255714286, Critical value: 0.576, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
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Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 0

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 0.0187

3. Repeatability

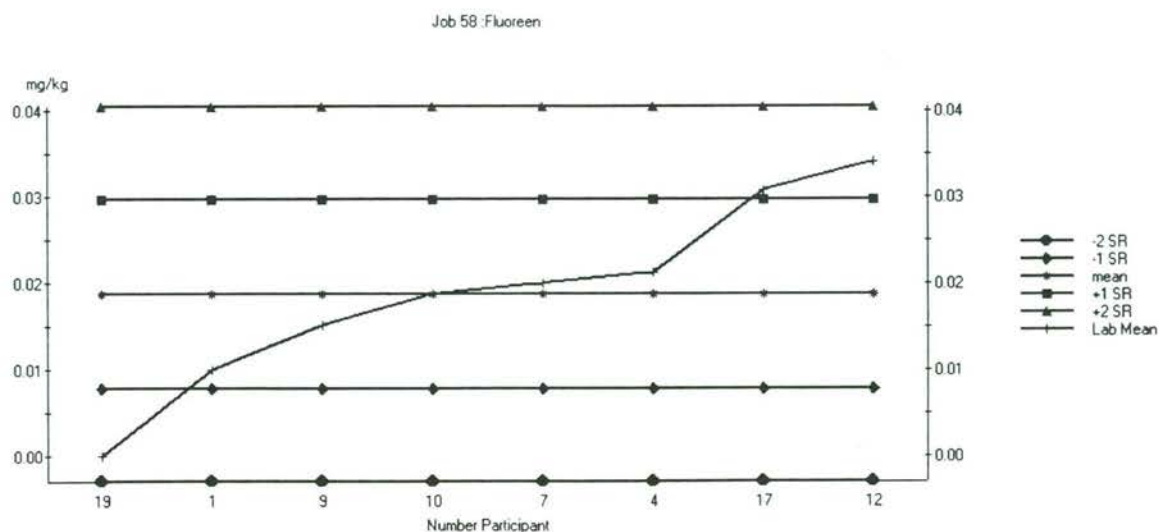
3.1. Standard deviation Sr = 0.0000

3.2 Coefficient of variation = 0.00 %

4. Reproducibility

4.1 Standard deviation SR = 0.0109

4.2 Coefficient of variation = 57.96 %



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
8	0.000000		G	-	LA	LMC	Eigen
11	0.000000		G	C	LE	LMC	5771
18	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
19	0.000000	-1.725218	B	C	LE	LUF	5771
14	0.000000		G	-	-	-	-
5	0.000000		G	-	LH	LMC	Eigen
16	0.000000		G	-	-	-	-
6	0.000000		G	-	LA	LMC	Eigen
15	0.000000		G	-	-	-	-
2	0.000000		G	-	LA	LUF	5771
3	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
1	0.010000	-0.804488	A	C	LE	LMC	Eigen
9	0.015220	-0.323867	A	-	-	LMC	5771
10	0.018720	-0.001611	A	-	S	LMC	5771
7	0.020000	0.116242	A	SC	LE	LMD	5771
4	0.021160	0.223047	A	-	LE	LMC	Eigen
17	0.030800	1.110631	B	-	-	-	-
12	0.034000	1.405264	B	-	L	LMC	Eigen

General Mean = 0.0187

Between Lab standard deviation = 0.0109

SL

Coefficient of variation = 57.96 %

Number of Laboratories = 8

A: Number of laboratories with IZI-scores between 0 and 1 ; 5

B: Number of laboratories with IZI-scores between 1 and 2 ; 3

C: Number of laboratories with IZI-scores between 2 and 3 ; 0

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 59 :20505
 Chryseen, Chr in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.099000	0.099000	0.000000
2	* 0.113000	0.113000	0.000000
3	* 0.105400	0.105400	0.000000
4	* 0.118000	0.118000	0.000000
5	* 0.120000	0.120000	0.000000
6	* 0.133000	0.133000	0.000000
7	* 0.128000	0.128000	0.000000
8	* 0.120000	0.120000	0.000000
9	* 0.136900	0.136900	0.000000
10	* 0.191800	0.191800	0.000000
11	* 0.140000	0.140000	0.000000
12	* 0.120000	0.120000	0.000000
13	* 0.000000	0.000000	0.000000 - N.V.
14	* 0.130000	0.130000	0.000000
15	* 0.000000	0.000000	0.000000 - N.V.
16	* 0.162500	0.162500	0.000000
17	* 0.175500	0.175500	0.000000
18	* 0.000000	0.000000	0.000000 - N.V.
19	* 0.103000	0.103000	0.000000
20	* 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

16 laboratory observations

Maximum absolute difference from Normal distribution: 0.17942, Critical value: 0.392, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
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Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 0

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 0.1310

3. Repeatability

3.1. Standard deviation Sr = 0.0000

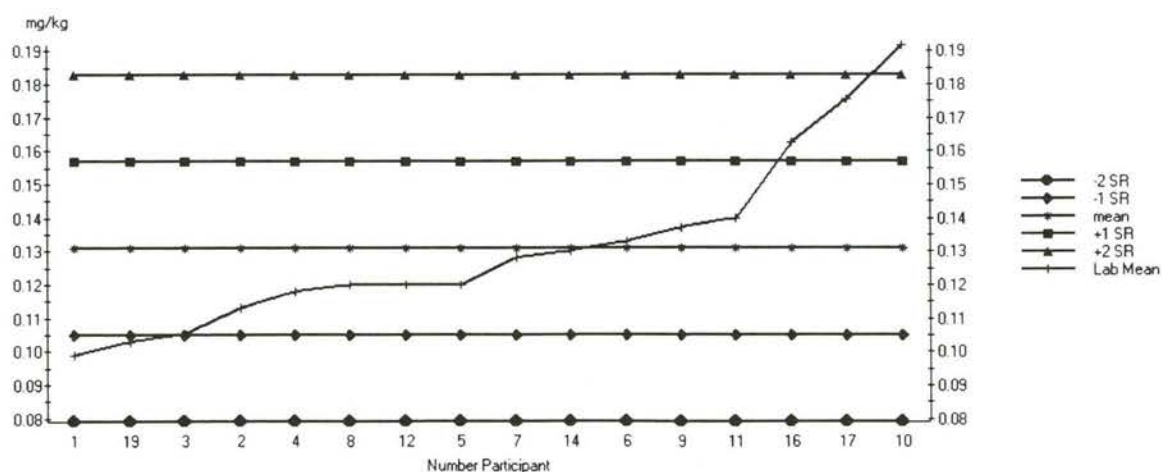
3.2 Coefficient of variation = 0.00 %

4. Reproducibility

4.1 Standard deviation SR = 0.0260

4.2 Coefficient of variation = 19.83 %

Job 59 :Chryseen



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
18	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
1	0.099000	-1.232328	B	C	LE	LMC	Eigen
19	0.103000	-1.078317	B	C	LE	GDE	5771
3	0.105400	-0.985911	A	-	-	-	-
2	0.113000	-0.693290	A	-	LA	LUF	5771
4	0.118000	-0.500776	A	-	LE	LMC	Eigen
8	0.120000	-0.423771	A	-	LA	LMC	Eigen
5	0.120000	-0.423771	A	-	LH	LMC	Eigen
12	0.120000	-0.423771	A	-	L	LMC	Eigen
7	0.128000	-0.115749	A	SC	LE	LMD	5771
14	0.130000	-0.038743	A	-	-	-	-
6	0.133000	0.076765	A	-	LA	LMC	Eigen
9	0.136900	0.226926	A	-	-	LMC	5771
11	0.140000	0.346284	A	C	LE	LMC	5771
16	0.162500	1.212596	B	-	Z	LUF	Eigen
17	0.175500	1.713131	B	-	-	-	-
10	0.191800	2.340726	C	-	S	LMC	5771

General Mean = 0.1310

Between Lab standard deviation = 0.0260

SL

Coefficient of variation = 19.83 %

Number of Laboratories = 16

A: Number of laboratories with IZI-scores between 0 and 1 ; 11

B: Number of laboratories with IZI-scores between 1 and 2 ; 4

C: Number of laboratories with IZI-scores between 2 and 3 ; 1

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 60 :20505

Benzo(b)-Fluorantheen, BbF in mg/kg Waterbodem

Lab ID	Dataset	Average	% Variance
1	* 0.160000	0.160000	0.000000
2	* 0.206000	0.206000	0.000000
3	* 0.189500	0.189500	0.000000
4	* 0.201400	0.201400	0.000000
5	* 0.180000	0.180000	0.000000
6	* 0.192000	0.192000	0.000000
7	* 0.213000	0.213000	0.000000
8	* 0.200000	0.200000	0.000000
9	* 0.200400	0.200400	0.000000
10	* 0.246100	0.246100	0.000000
11	* 0.220000	0.220000	0.000000
12	* 0.290000	0.290000	0.000000
13	* 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000	0.000000	0.000000 - N.V.
16	* 0.249700	0.249700	0.000000
17	* 0.237100	0.237100	0.000000
18	* 0.000000	0.000000	0.000000 - N.V.
19	* 0.183000	0.183000	0.000000
20	* 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

15 laboratory observations

Maximum absolute difference from Normal distribution: 0.15962, Critical value: 0.404, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
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Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 0

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 0.2112

3. Repeatability

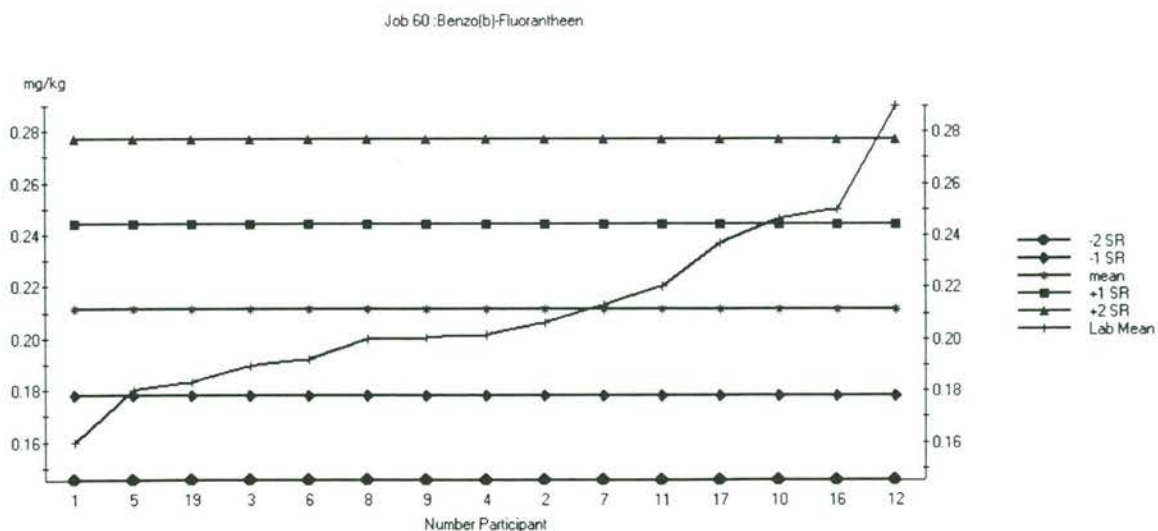
3.1. Standard deviation Sr = 0.0000

3.2 Coefficient of variation = 0.00 %

4. Reproducibility

4.1 Standard deviation SR = 0.0330

4.2 Coefficient of variation = 15.63 %



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
18	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
14	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
1	0.160000	-1.551411	B	C	LE	LMC	Eigen
5	0.180000	-0.945549	A	-	LH	LMC	Eigen
19	0.183000	-0.854669	A	C	LE	LUF	5771
3	0.189500	-0.657764	A	-	-	-	-
6	0.192000	-0.582031	A	-	LA	LMC	Eigen
8	0.200000	-0.339687	A	-	LA	LMC	Eigen
9	0.200400	-0.327569	A	-	-	LMC	5771
4	0.201400	-0.297276	A	-	LE	LMC	Eigen
2	0.206000	-0.157928	A	-	LA	LUF	5771
7	0.213000	0.054124	A	SC	LE	LMD	5771
11	0.220000	0.266175	A	C	LE	LMC	5771
17	0.237100	0.784187	A	-	-	-	-
10	0.246100	1.056825	B	-	S	LMC	5771
16	0.249700	1.165880	B	-	Z	LUF	Eigen
12	0.290000	2.386692	C	-	L	LMC	Eigen

General Mean = 0.2112
Between Lab standard deviation = 0.0330
SL
Coefficient of variation = 15.63 %
Number of Laboratories = 15

A: Number of laboratories with IZI-scores between 0 and 1 ; 11
B: Number of laboratories with IZI-scores between 1 and 2 ; 3
C: Number of laboratories with IZI-scores between 2 and 3 ; 1
D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 61 :20505

Dibenz[a,h]antracene, DBahA in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.020000	0.020000	0.000000
2	* 0.030000	0.030000	0.000000
3	* 0.009300	0.009300	0.000000
4	* 0.019530	0.019530	0.000000
5	* 0.020000	0.020000	0.000000
6	* 0.050000	0.000000	0.000000 - N.V.
7	* 0.027000	0.027000	0.000000
8	* 0.050000	0.000000	0.000000 - N.V.
9	* 0.021480	0.021480	0.000000
10	* 0.027850	0.027850	0.000000
11	* 0.040000	0.000000	0.000000 - N.V.
12	* 0.021000	0.021000	0.000000
13	* 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000	0.000000	0.000000 - N.V.
16	* 0.027160	0.027160	0.000000
17	* 0.027700	0.027700	0.000000
18	* 0.000000	0.000000	0.000000 - N.V.
19	* 0.027000	0.027000	0.000000
20	* 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

12 laboratory observations

Maximum absolute difference from Normal distribution: 0.128516666667, Critical value: 0.449, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
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Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 0

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 0.0232

3. Repeatability

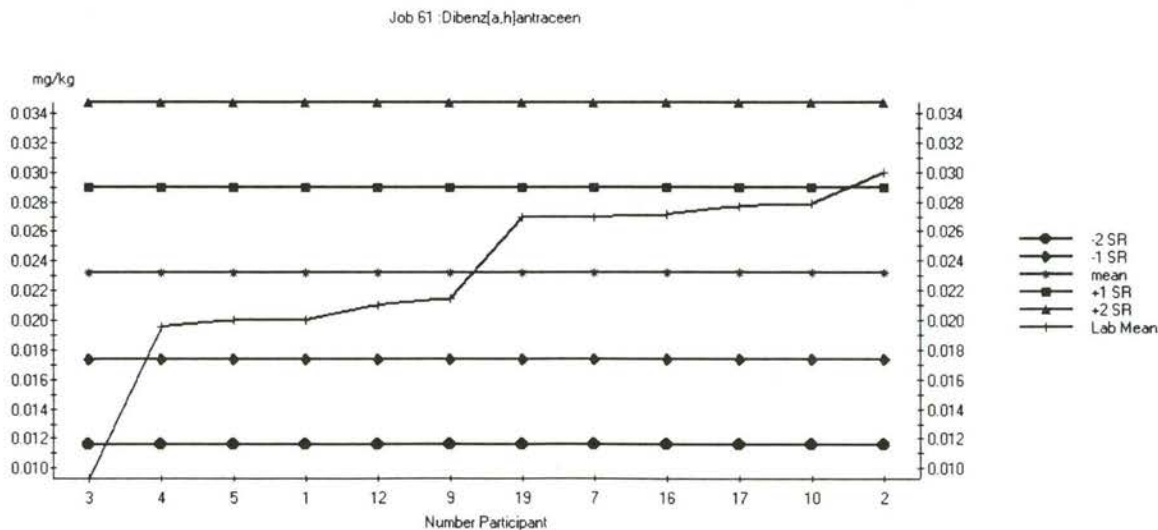
3.1. Standard deviation Sr = 0.0000

3.2 Coefficient of variation = 0.00 %

4. Reproducibility

4.1 Standard deviation SR = 0.0058

4.2 Coefficient of variation = 24.95 %



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
8	0.000000		G	-	LA	LMC	Eigen
11	0.000000		G	C	LE	LMC	5771
18	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
14	0.000000		G	-	-	-	-
6	0.000000		G	-	LA	LMC	Eigen
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
3	0.009300	-2.398951	C	-	-	-	-
4	0.019530	-0.629361	A	-	LE	LMC	Eigen
1	0.020000	-0.548060	A	-	LE	LMC	Eigen
5	0.020000	-0.548060	A	-	LH	LMC	Eigen
12	0.021000	-0.375079	A	-	L	LMC	Eigen
9	0.021480	-0.292049	A	-	-	LMC	5771
19	0.027000	0.662804	A	C	LE	LUF	5771
7	0.027000	0.662804	A	SC	LE	LMD	5771
16	0.027160	0.690481	A	-	Z	LUF	Eigen
17	0.027700	0.783890	A	-	-	-	-
10	0.027850	0.809837	A	-	S	LMC	5771
2	0.030000	1.181745	B	-	LA	LUF	5771

General Mean = 0.0232
Between Lab standard deviation = 0.0058
SL
Coefficient of variation = 24.95 %
Number of Laboratories = 12

A: Number of laboratories with IZI-scores between 0 and 1 ; 10
B: Number of laboratories with IZI-scores between 1 and 2 ; 1
C: Number of laboratories with IZI-scores between 2 and 3 ; 1
D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 62 :20505
Acenafteen, Ace in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.010000	0.010000	0.000000
2	* 0.050000	0.000000	0.000000 - N.V.
3	* 0.020000	0.000000	0.000000 - N.V.
4	* 0.015460	0.015460	0.000000
5	* 0.090000	0.000000	0.000000 - N.V.
6	* 0.050000	0.000000	0.000000 - N.V.
7	* 0.020000	0.000000	0.000000 - N.V.
8	* 0.100000	0.000000	0.000000 - N.V.
9	* 0.014000	0.000000	0.000000 - N.V.
10	* 0.023740	0.023740	0.000000
11	* 0.180000	0.000000	0.000000 - N.V.
12	* 0.045000	0.045000	0.000000
13	* 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000	0.000000	0.000000 - N.V.
17	* 0.011100	0.011100	0.000000
18	* 0.000000	0.000000	0.000000 - N.V.
19	* 0.081000	0.081000	0.000000
20	* 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

6 laboratory observations

Maximum absolute difference from Normal distribution: 0.269236666667, Critical value: 0.617, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
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Grubbs

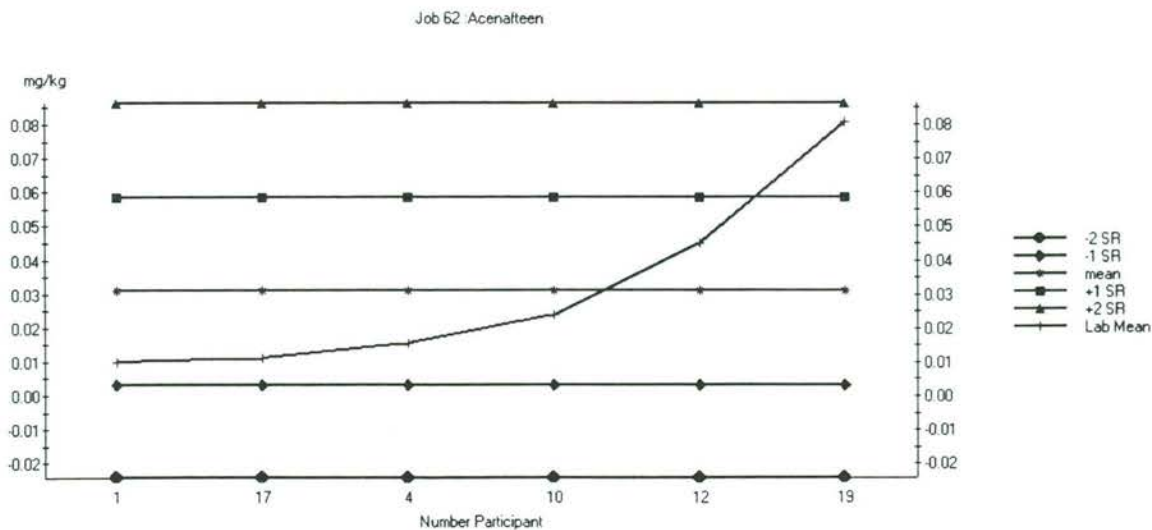
Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to
- 1.1 Repeatability

1.2 Reproducibility

1.3 Manual rejected
- 0
- 0
2. General Mean
- = 0.0311
3. Repeatability
- 3.1. Standard deviation Sr
- = 0.0000
- 3.2 Coefficient of variation
- = 0.00 %
4. Reproducibility
- 4.1 Standard deviation SR
- = 0.0277
- 4.2 Coefficient of variation
- = 89.10 %



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
8	0.000000		G	-	LA	LMC	Eigen
11	0.000000		G	C	LE	LMC	5771
9	0.000000		G	-	-	LMC	5771
18	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
14	0.000000		G	-	-	-	-
5	0.000000		G	-	LH	LMC	Eigen
16	0.000000		G	-	-	-	-
6	0.000000		G	-	LA	LMC	Eigen
15	0.000000		G	-	-	-	-
2	0.000000		G	-	LA	LUF	5771
7	0.000000		G	SC	LE	LMD	5771
3	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
1	0.010000	-0.760846	A	SC	LE	LMC	Eigen
17	0.011100	-0.721087	A	-	-	-	-
4	0.015460	-0.563496	A	-	LE	LMC	Eigen
10	0.023740	-0.264218	A	-	S	LMC	5771
12	0.045000	0.504219	A	-	L	LMC	Eigen
19	0.081000	1.805428	B	C	LE	LMC	5771

General Mean = 0.0311

Between Lab standard deviation = 0.0277

SL

Coefficient of variation = 89.10 %

Number of Laboratories = 6

A: Number of laboratories with IZI-scores between 0 and 1 ; 5

B: Number of laboratories with IZI-scores between 1 and 2 ; 1

C: Number of laboratories with IZI-scores between 2 and 3 ; 0

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 63 :20505
 Benzo[ghi]perylene, BghiP in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.110000	0.110000	0.000000
2	* 0.128000	0.128000	0.000000
3	* 0.087600	0.087600	0.000000
4	* 0.110700	0.110700	0.000000
5	* 0.170000	0.170000	0.000000
6	* 0.100000	0.100000	0.000000
7	* 0.131000	0.131000	0.000000
8	* 0.130000	0.130000	0.000000
9	* 0.117800	0.117800	0.000000
10	* 0.139700	0.139700	0.000000
11	* 0.130000	0.130000	0.000000
12	* 0.140000	0.140000	0.000000
13	* 0.000000	0.000000	0.000000 - N.V.
14	* 0.120000	0.120000	0.000000
15	* 0.000000	0.000000	0.000000 - N.V.
16	* 0.137200	0.137200	0.000000
17	* 0.121300	0.121300	0.000000
18	* 0.000000	0.000000	0.000000 - N.V.
19	* 0.124000	0.124000	0.000000
20	* 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

16 laboratory observations

Maximum absolute difference from Normal distribution: 0.14647, Critical value: 0.392, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
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Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 0

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 0.1248

3. Repeatability

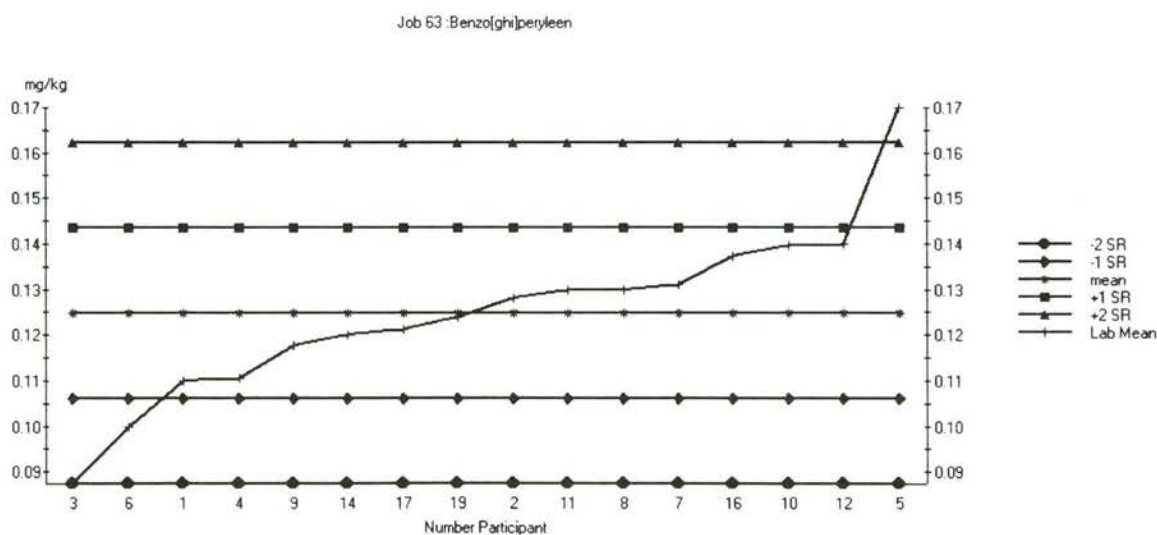
3.1. Standard deviation Sr = 0.0000

3.2 Coefficient of variation = 0.00 %

4. Reproducibility

4.1 Standard deviation SR = 0.0187

4.2 Coefficient of variation = 14.99 %



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
18	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
3	0.087600	-1.989288	B	-	-	-	-
6	0.100000	-1.326749	B	-	LA	LMC	Eigen
1	0.110000	-0.792443	A	C	LE	LMC	Eigen
4	0.110700	-0.755041	A	-	LE	LMC	Eigen
9	0.117800	-0.375684	A	-	-	LMC	5771
14	0.120000	-0.258137	A	-	-	-	-
17	0.121300	-0.188677	A	-	-	-	-
19	0.124000	-0.044414	A	C	LE	LUF	5771
2	0.128000	0.169308	A	-	LA	LUF	5771
8	0.130000	0.276169	A	-	LA	LMC	Eigen
11	0.130000	0.276169	A	C	LE	LMC	5771
7	0.131000	0.329600	A	SC	LE	LMD	5771
16	0.137200	0.660870	A	-	Z	LUF	Eigen
10	0.139700	0.794446	A	-	S	LMC	5771
12	0.140000	0.810475	A	-	L	LMC	Eigen
5	0.170000	2.413394	C	-	LH	LMC	Eigen

General Mean = 0.1248

Between Lab standard deviation = 0.0187

SL

Coefficient of variation = 14.99 %

Number of Laboratories = 16

A: Number of laboratories with IZI-scores between 0 and 1 ; 13

B: Number of laboratories with IZI-scores between 1 and 2 ; 2

C: Number of laboratories with IZI-scores between 2 and 3 ; 1

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 64 :20505

Phenantreen, Phen in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.099000	0.099000	0.000000
2	* 0.116700	0.116700	0.000000
3	* 0.091800	0.091800	0.000000
4	* 0.120000	0.120000	0.000000
5	* 0.120000	0.120000	0.000000
6	* 0.133000	0.133000	0.000000
7	* 0.140000	0.140000	0.000000
8	* 0.130000	0.130000	0.000000
9	* 0.097120	0.097120	0.000000
10	* 0.141100	0.141100	0.000000
11	* 0.120000	0.120000	0.000000
12	* 0.210000	0.210000	0.000000
13	* 0.000000	0.000000	0.000000 - N.V.
14	* 0.150000	0.150000	0.000000
15	* 0.000000	0.000000	0.000000 - N.V.
16	* 0.206700	0.206700	0.000000
17	* 0.156400	0.156400	0.000000
18	* 0.000000	0.000000	0.000000 - N.V.
19	* 0.099000	0.099000	0.000000
20	* 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

16 laboratory observations

Maximum absolute difference from Normal distribution: 0.16293, Critical value: 0.392, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
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Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 0

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 0.1332

3. Repeatability

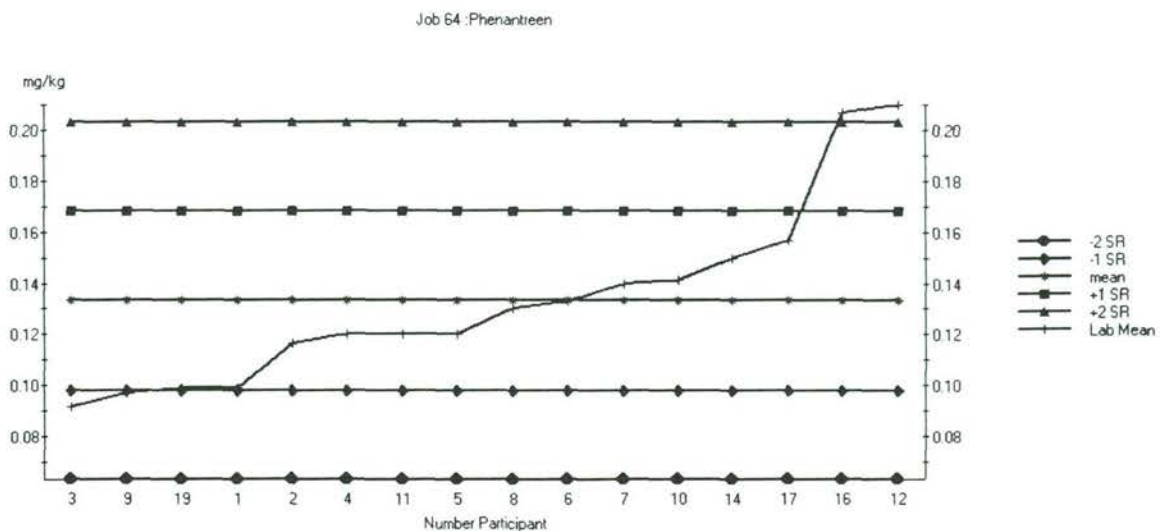
3.1. Standard deviation S_r = 0.0000

3.2 Coefficient of variation = 0.00 %

4. Reproducibility

4.1 Standard deviation S_R = 0.0350

4.2 Coefficient of variation = 26.29 %



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
18	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
3	0.091800	-1.181701	B	-	-	-	-
9	0.097120	-1.029762	B	-	-	LMC	5771
1	0.099000	-0.976069	A	C	LE	LMC	Eigen
19	0.099000	-0.976069	A	C	LE	LUF	5771
2	0.116700	-0.470560	A	-	LA	LUF	5771
11	0.120000	-0.376312	A	C	LE	LMC	5771
5	0.120000	-0.376312	A	-	LH	LMC	Eigen
4	0.120000	-0.376312	A	-	LE	LMC	Eigen
8	0.130000	-0.090713	A	-	LA	LMC	Eigen
6	0.133000	-0.005034	A	-	LA	LMC	Eigen
7	0.140000	0.194885	A	SC	LE	LMD	5771
10	0.141100	0.226301	A	-	S	LMC	5771
14	0.150000	0.480484	A	-	-	-	-
17	0.156400	0.663267	A	-	-	-	-
16	0.206700	2.099829	C	-	Z	LUF	Eigen
12	0.210000	2.194077	C	-	L	LMC	Eigen

General Mean = 0.1332

Between Lab standard deviation = 0.0350

SL

Coefficient of variation = 26.29 %

Number of Laboratories = 16

A: Number of laboratories with IZI-scores between 0 and 1 ; 12

B: Number of laboratories with IZI-scores between 1 and 2 ; 2

C: Number of laboratories with IZI-scores between 2 and 3 ; 2

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 65 :20505

Benzo(a)Anthraceen, BaA in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.099000	0.099000	0.000000
2	* 0.133000	0.133000	0.000000
3	* 0.116100	0.116100	0.000000
4	* 0.102500	0.102500	0.000000
5	* 0.110000	0.110000	0.000000
6	* 0.146000	0.146000	0.000000
7	* 0.135000	0.135000	0.000000
8	* 0.130000	0.130000	0.000000
9	* 0.135700	0.135700	0.000000
10	* 0.152500	0.152500	0.000000
11	* 0.130000	0.130000	0.000000
12	* 0.120000	0.120000	0.000000
13	* 0.000000	0.000000	0.000000 - N.V.
14	* 0.110000	0.110000	0.000000
15	* 0.000000	0.000000	0.000000 - N.V.
16	* 0.141800	0.141800	0.000000
17	* 0.136700	0.136700	0.000000
18	* 0.000000	0.000000	0.000000 - N.V.
19	* 0.110000	0.110000	0.000000
20	* 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

16 laboratory observations

Maximum absolute difference from Normal distribution: 0.14398, Critical value: 0.392, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
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Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 0

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 0.1255

3. Repeatability

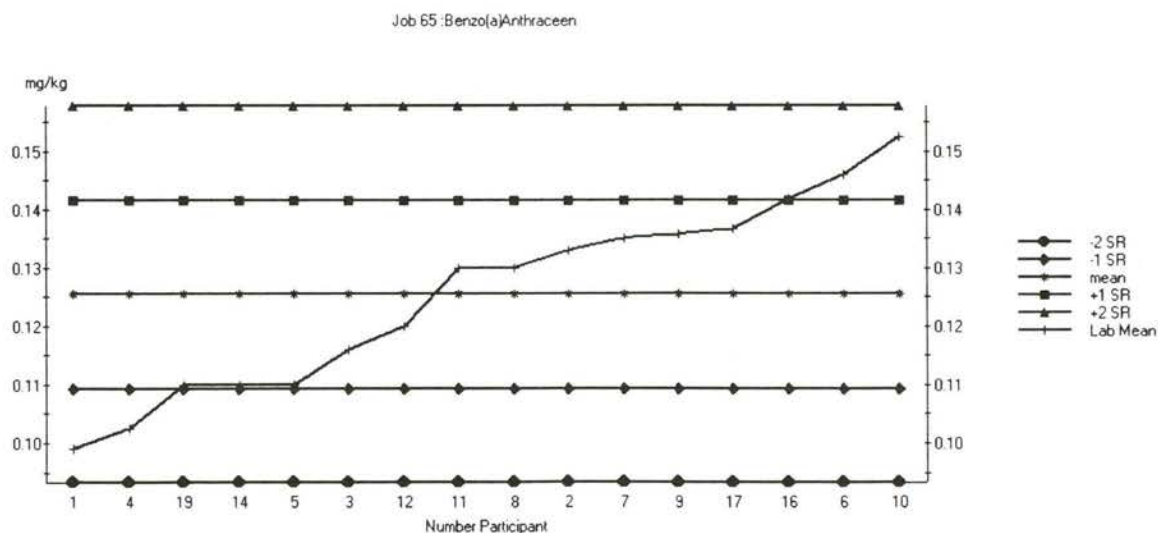
3.1. Standard deviation Sr = 0.0000

3.2 Coefficient of variation = 0.00 %

4. Reproducibility

4.1 Standard deviation SR = 0.0161

4.2 Coefficient of variation = 12.85 %



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
18	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
1	0.099000	-1.644196	B	C	LE	LMC	Eigen
4	0.102500	-1.427192	B	-	LE	LMC	Eigen
19	0.110000	-0.962182	A	C	LE	LUF	5771
14	0.110000	-0.962182	A	-	-	-	-
5	0.110000	-0.962182	A	-	LH	LMC	Eigen
3	0.116100	-0.583975	A	-	-	-	-
12	0.120000	-0.342170	A	-	L	LMC	Eigen
8	0.130000	0.277843	A	-	LA	LMC	Eigen
11	0.130000	0.277843	A	C	LE	LMC	5771
2	0.133000	0.463847	A	-	LA	LUF	5771
7	0.135000	0.587850	A	SC	LE	LMC	5771
9	0.135700	0.631251	A	-	-	LMC	5771
17	0.136700	0.693252	A	-	-	-	-
16	0.141800	1.009458	B	-	Z	LUF	Eigen
6	0.146000	1.269864	B	-	LA	LMC	Eigen
10	0.152500	1.672872	B	-	S	LMC	5771

General Mean = 0.1255

Between Lab standard deviation = 0.0161

SL

Coefficient of variation = 12.85 %

Number of Laboratories = 16

A: Number of laboratories with IZI-scores between 0 and 1 ; 11

B: Number of laboratories with IZI-scores between 1 and 2 ; 5

C: Number of laboratories with IZI-scores between 2 and 3 ; 0

D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 66 :20505
 Pyreen, Pyr in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.190000	0.190000	0.000000
2	* 0.254000	0.254000	0.000000
3	* 0.126900	0.126900	0.000000
4	* 0.216900	0.216900	0.000000
5	* 0.270000	0.270000	0.000000
6	* 0.250000	0.250000	0.000000
7	* 0.247000	0.247000	0.000000
8	* 0.210000	0.210000	0.000000
9	* 0.229300	0.229300	0.000000
10	* 0.288600	0.288600	0.000000
11	* 0.220000	0.220000	0.000000
12	* 0.270000	0.270000	0.000000
13	* 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000	0.000000	0.000000 - N.V.
16	* 0.324700	0.324700	0.000000
17	* 0.448200	0.448200	0.000000
18	* 0.000000	0.000000	0.000000 - N.V.
19	* 0.218000	0.218000	0.000000
20	* 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

15 laboratory observations

Maximum absolute difference from Normal distribution: 0.19743, Critical value: 0.404, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
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Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 0

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 0.2509

3. Repeatability

3.1. Standard deviation Sr = 0.0000

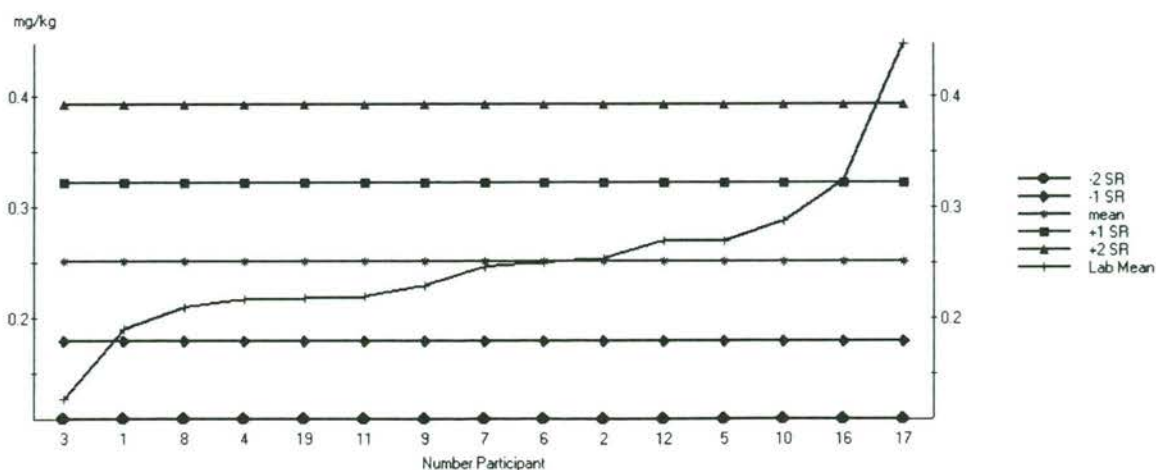
3.2 Coefficient of variation = 0.00 %

4. Reproducibility

4.1 Standard deviation SR = 0.0712

4.2 Coefficient of variation = 28.38 %

Job 66 :Pyreen



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
18	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
14	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
3	0.126900	-1.741722	B	-	-	-	-
1	0.190000	-0.855458	A	C	LE	LMC	Eigen
8	0.210000	-0.574550	A	-	LA	LMC	Eigen
4	0.216900	-0.477637	A	-	LE	LMC	Eigen
19	0.218000	-0.462187	A	C	LE	LUF	5771
11	0.220000	-0.434096	A	C	LE	LMC	5771
9	0.229300	-0.303474	A	-	-	LMC	5771
7	0.247000	-0.054871	A	SC	LE	LMD	5771
6	0.250000	-0.012734	A	-	LA	LMC	Eigen
2	0.254000	0.043447	A	-	LA	LUF	5771
5	0.270000	0.268173	A	-	LH	LMC	Eigen
12	0.270000	0.268173	A	-	L	LMC	Eigen
10	0.288600	0.529417	A	-	S	LMC	5771
16	0.324700	1.036456	B	-	Z	LUF	Eigen
17	0.448200	2.771061	C	-	-	-	-

General Mean	= 0.2509
Between Lab standard deviation	= 0.0712
SL	
Coefficient of variation	= 28.38 %
Number of Laboratories	= 15

A: Number of laboratories with IZI-scores between 0 and 1 ; 12
B: Number of laboratories with IZI-scores between 1 and 2 ; 2
C: Number of laboratories with IZI-scores between 2 and 3 ; 1
D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 67 :20505
 Indeno[1,2,3-cd]Pyrene, InP in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.120000	0.120000	0.000000
2	* 0.143000	0.143000	0.000000
3	* 0.148700	0.148700	0.000000
4	* 0.151800	0.151800	0.000000
5	* 0.130000	0.130000	0.000000
6	* 0.171000	0.171000	0.000000
7	* 0.136000	0.136000	0.000000
8	* 0.150000	0.150000	0.000000
9	* 0.156800	0.156800	0.000000
10	* 0.207300	0.207300	0.000000
11	* 0.170000	0.170000	0.000000
12	* 0.150000	0.150000	0.000000
13	* 0.000000	0.000000	0.000000 - N.V.
14	* 0.140000	0.140000	0.000000
15	* 0.000000	0.000000	0.000000 - N.V.
16	* 0.175000	0.175000	0.000000
17	* 0.162100	0.162100	0.000000
18	* 0.000000	0.000000	0.000000 - N.V.
19	* 0.123000	0.123000	0.000000
20	* 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Kolmogorov-Smirnov test on assuming a Normal distribution, 1 % unreliability;

16 laboratory observations

Maximum absolute difference from Normal distribution: 0.12899, Critical value: 0.392, KS-test passed

Cochran

Cycle	Lab ID	Average	Std. deviation	Calculated value	Critical value
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Grubbs

Cycle	Lab ID	D/S	Average	Std. deviation	Calculated value	Critical value
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Samenvatting

1. Eliminations due to

1.1 Repeatability 0

1.2 Reproducibility 0

1.3 Manual rejected

2. General Mean = 0.1522

3. Repeatability

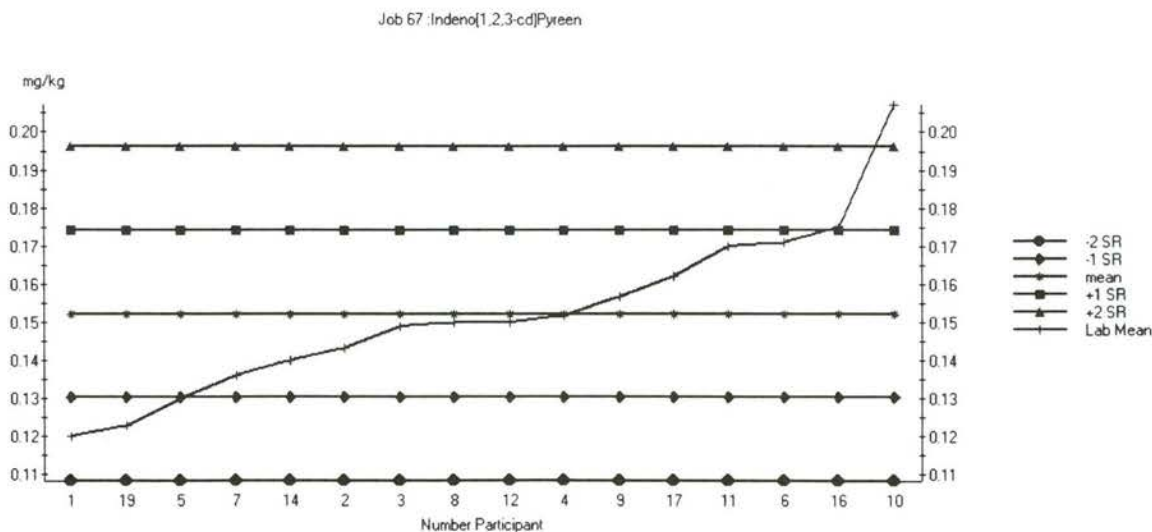
3.1. Standard deviation Sr = 0.0000

3.2 Coefficient of variation = 0.00 %

4. Reproducibility

4.1 Standard deviation SR = 0.0220

4.2 Coefficient of variation = 14.44 %



Job classification

Lab ID	Average	Z-score	klass	clean	extr	det	Proc
18	0.000000		G	-	-	-	-
20	0.000000		G	-	-	-	-
15	0.000000		G	-	-	-	-
13	0.000000		G	-	-	-	-
1	0.120000	-1.463667	B	C	LE	LMC	Eigen
19	0.123000	-1.327168	B	C	LE	GDE	5771
5	0.130000	-1.008670	B	-	LH	LMC	Eigen
7	0.136000	-0.735672	A	SC	LE	LMD	5771
14	0.140000	-0.553674	A	-	-	-	-
2	0.143000	-0.417175	A	-	LA	LUF	5771
3	0.148700	-0.157827	A	-	-	-	-
8	0.150000	-0.098677	A	-	LA	LMC	Eigen
12	0.150000	-0.098677	A	-	L	LMC	Eigen
4	0.151800	-0.016778	A	-	LE	LMC	Eigen
9	0.156800	0.210720	A	-	-	LMC	5771
17	0.162100	0.451868	A	-	-	-	-
11	0.170000	0.811316	A	C	LE	LMC	5771
6	0.171000	0.856815	A	-	LA	LMC	Eigen
16	0.175000	1.038814	B	-	Z	LUF	Eigen
10	0.207300	2.508452	C	-	S	LMC	5771

General Mean = 0.1522
Between Lab standard deviation = 0.0220
SL
Coefficient of variation = 14.44 %
Number of Laboratories = 16

A: Number of laboratories with IZI-scores between 0 and 1 ; 11
B: Number of laboratories with IZI-scores between 1 and 2 ; 4
C: Number of laboratories with IZI-scores between 2 and 3 ; 1
D: Number of laboratories with IZI-scores larger then 3 ; 0

Job 68 :20505
Acenaftyleen, Acy in mg/kg Waterbodem

Lab ID	Dataset	Average	%Variance
1	* 0.100000	0.000000	0.000000 - N.V.
2	* 0.000000	0.000000	0.000000 - N.V.
3	* 0.050000	0.000000	0.000000 - N.V.
4	* 0.060000	0.000000	0.000000 - N.V.
5	* 0.050000	0.000000	0.000000 - N.V.
6	* 0.050000	0.000000	0.000000 - N.V.
7	* 0.020000	0.000000	0.000000 - N.V.
8	* 0.100000	0.000000	0.000000 - N.V.
9	* 0.100000	0.000000	0.000000 - N.V.
10	* 0.050000	0.000000	0.000000 - N.V.
11	* 0.180000	0.000000	0.000000 - N.V.
12	* 0.000400	0.000000	0.000000 - N.V.
13	* 0.000000	0.000000	0.000000 - N.V.
14	* 0.000000	0.000000	0.000000 - N.V.
15	* 0.000000	0.000000	0.000000 - N.V.
16	* 0.000000	0.000000	0.000000 - N.V.
17	* 0.500000	0.000000	0.000000 - N.V.
18	* 0.000000	0.000000	0.000000 - N.V.
19	* 0.034000	0.034000	0.000000
20	* 0.000000	0.000000	0.000000 - N.V.

Analysis

Analysis:

Number of available laboratory observations less than 5, no statistical analysis

AN ORIGINAL BINDOMATIC DFS COVER
Classic 12 mm for 91-120 sheets