

Rijkswaterstaat

Rijksinstituut voor Integraal Zoetwaterbeheer en
Afvalwaterbehandeling RIZA



Laboratoriumevaluerend onderzoek;

Project 172 - Sediment, Totaal Pakket
1 november 1999

Bijlage 4, monsters 99093 en 99097

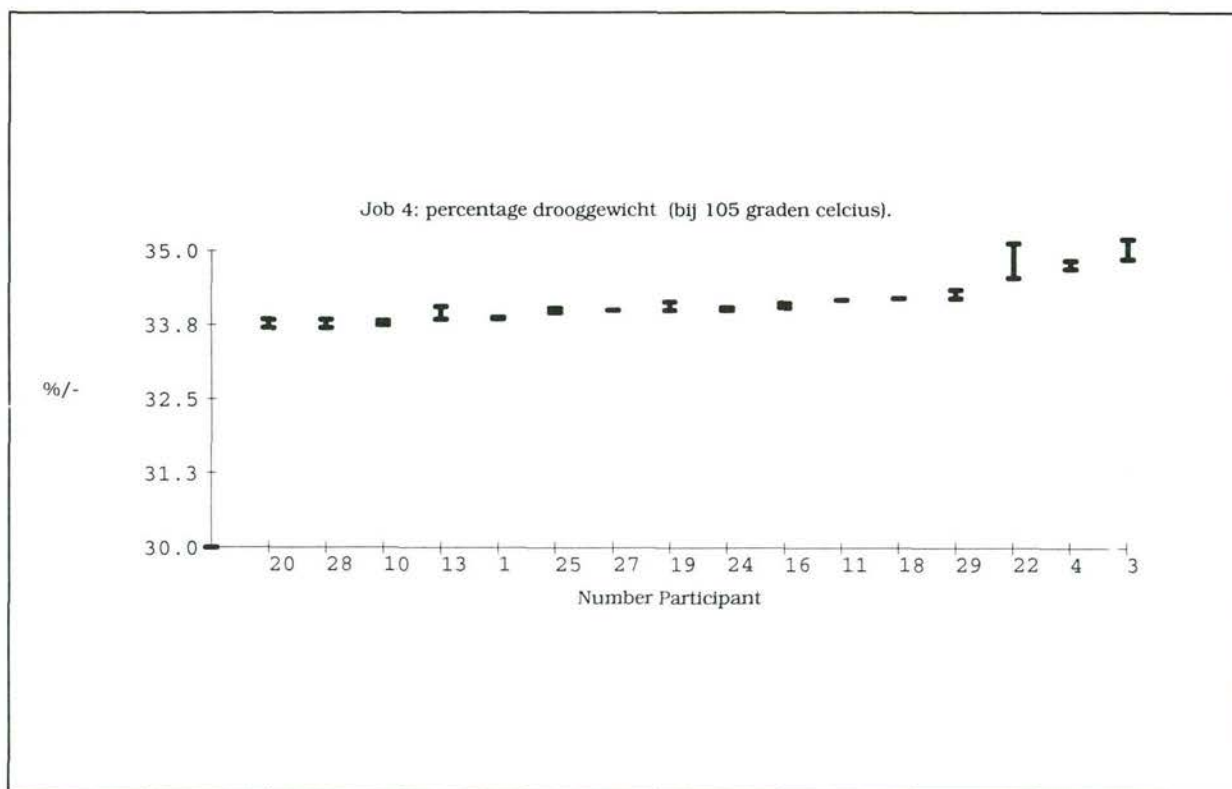
Auteur	S.T. van der Velde
Datum	21 januari 2000
Afdeling	IMLK
Werkdocumentnr:	99.068X



Job 4 : 99093, 99097

percentage drooggewicht (bij 105 graden celcius)., %DW in %/- Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *
1 *	33.87000	33.83000	33.85000	.1 % *
2 *			.00000	0 % *
3 *	34.62000	35.10000	34.86000	1.0 % *
4 *	34.60000	34.80000	34.70000	.4 % *
5 *			.00000	0 % *
6 *	36.40000	34.10000	35.25000	4.6 % *
7 *			.00000	0 % *
8 *			.00000	0 % *
9 *	30.00000	34.00000	32.00000	8.8 % *
10 *	33.70000	33.80000	33.75000	.2 % *
11 *	34.17000	34.17000	34.17000	.0 % *
12 *			.00000	0 % *
13 *	33.69000	34.00000	33.84500	.6 % *
14 *			.00000	0 % *
15 *			.00000	0 % *
16 *	34.10000	34.00000	34.05000	.2 % *
17 *			.00000	0 % *
18 *	34.20000	34.20000	34.20000	.0 % *
19 *	33.90000	34.10000	34.00000	.4 % *
20 *	33.60000	33.80000	33.70000	.4 % *
21 *	33.50000	34.80000	34.15000	2.7 % *
22 *	34.96000	34.13000	34.54500	1.7 % *
23 *			.00000	0 % *
24 *	33.97000	34.03000	34.00000	.1 % *
25 *	34.01000	33.90000	33.95500	.2 % *
26 *			.00000	0 % *
27 *	34.00000	34.00000	34.00000	.0 % *
28 *	33.60000	33.80000	33.70000	.4 % *
29 *	34.10000	34.30000	34.20000	.4 % *



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;
19 laboratory observations

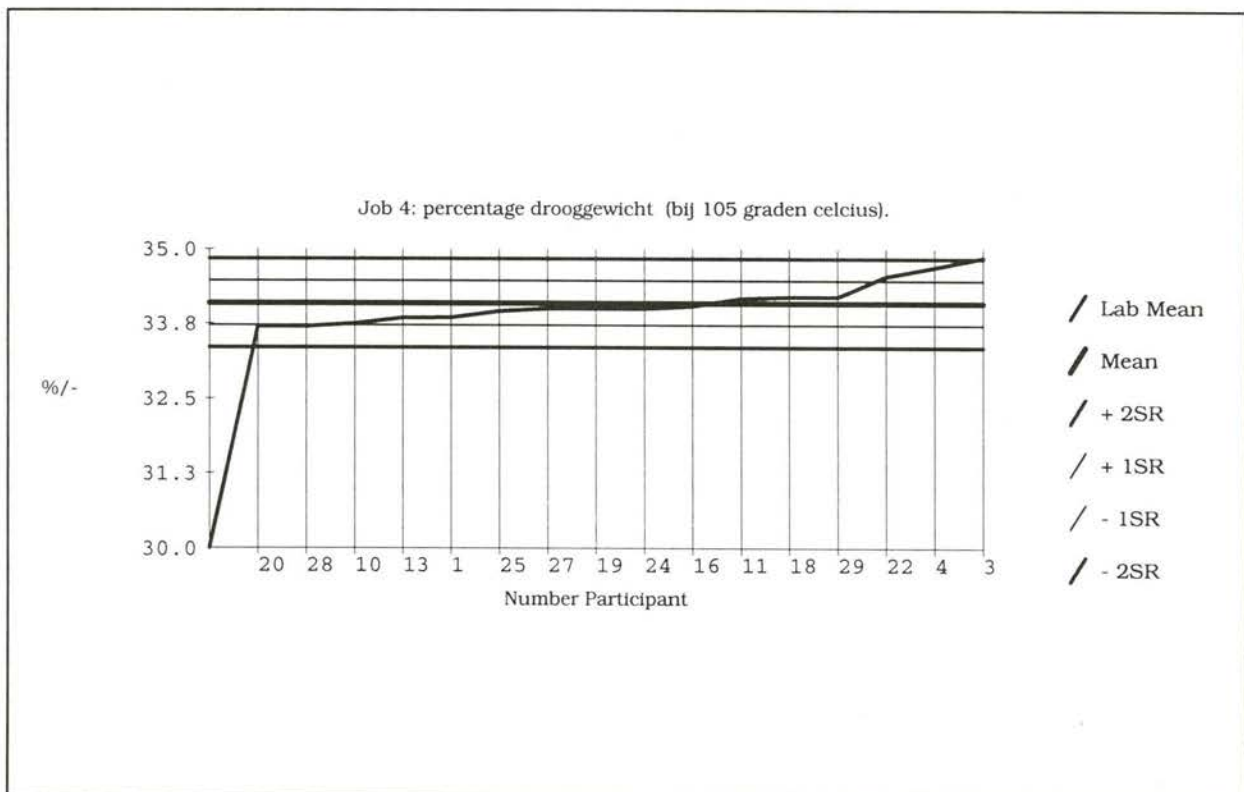
Maximum absolute difference from Normal distribution: 0.19851. Critical value: 0.36100. KS-test passed

COCHRAN; 1 % ; replicas: 2

Cyc *	Lab *	Average *	Variance *	Result *	Value
1 *	9 *	32.00000 *	2.82843 *	.66026 *	.49614
2 *	6 *	35.25000 *	1.62635 *	.64256 *	.51357
3 *	21 *	34.15000 *	.91924 *	.57430 *	.53233

Summary

1. Eliminations due to
1.1 Repeatability = 3
1.2 Reproducibility = 0
1.3 Manual rejected = 0
2. General Mean = 34.09531
3. Repeatability
3.1 Standard deviation $S_r = .19786$
3.2 Coefficient of variation = 1 %
4. Reproducibility
4.1 Standard deviation $S_R = .37214$
4.2 Coefficient of variation = 1 %



Job Classification

Lab	Mean	Clas	Ext	Clean	Det	Procedure
7	.00000	G	?	?	?	NEN 6620
8	.00000	G	?	?	?	?
14	.00000	G	-	-	-	-
2	.00000	G	-	-	-	-
15	.00000	G	?	?	?	?
26	.00000	G	-	-	-	G-NEN 6620
17	.00000	G	-	-	-	HUIS
5	.00000	G	-	-	-	-
12	.00000	G	-	-	-	-
23	.00000	G	-	-	-	-
9	32.00000	W	-	-	-	-
20	33.70000	B	-	-	-	NEN 6620
28	33.70000	B	-	-	-	NEN 5747
10	33.75000	B	-	-	-	C-NEN 6620
13	33.84500	A	-	-	-	G-NEN 6620
1	33.85000	A	-	-	-	G-NEN 5747
25	33.95500	A	Z	-	Z	NEN 6620
19	34.00000	A	-	-	Z	G-NEN 6620
27	34.00000	A	-	-	-	NEN 6620
24	34.00000	A	-	-	Z	NEN 6620
16	34.05000	A	-	-	-	C-NEN 6620
21	34.15000	W	-	-	-	NEN 6620
11	34.17000	A	-	-	-	C-NEN 6620
18	34.20000	A	-	-	-	C-NEN 6620
29	34.20000	A	-	-	Z	HUIS
22	34.54500	B	-	-	-	-
4	34.70000	B	-	-	-	-
3	34.86000	C	-	-	-	NEN 5748
6	35.25000	W	?	?	?	HUIS

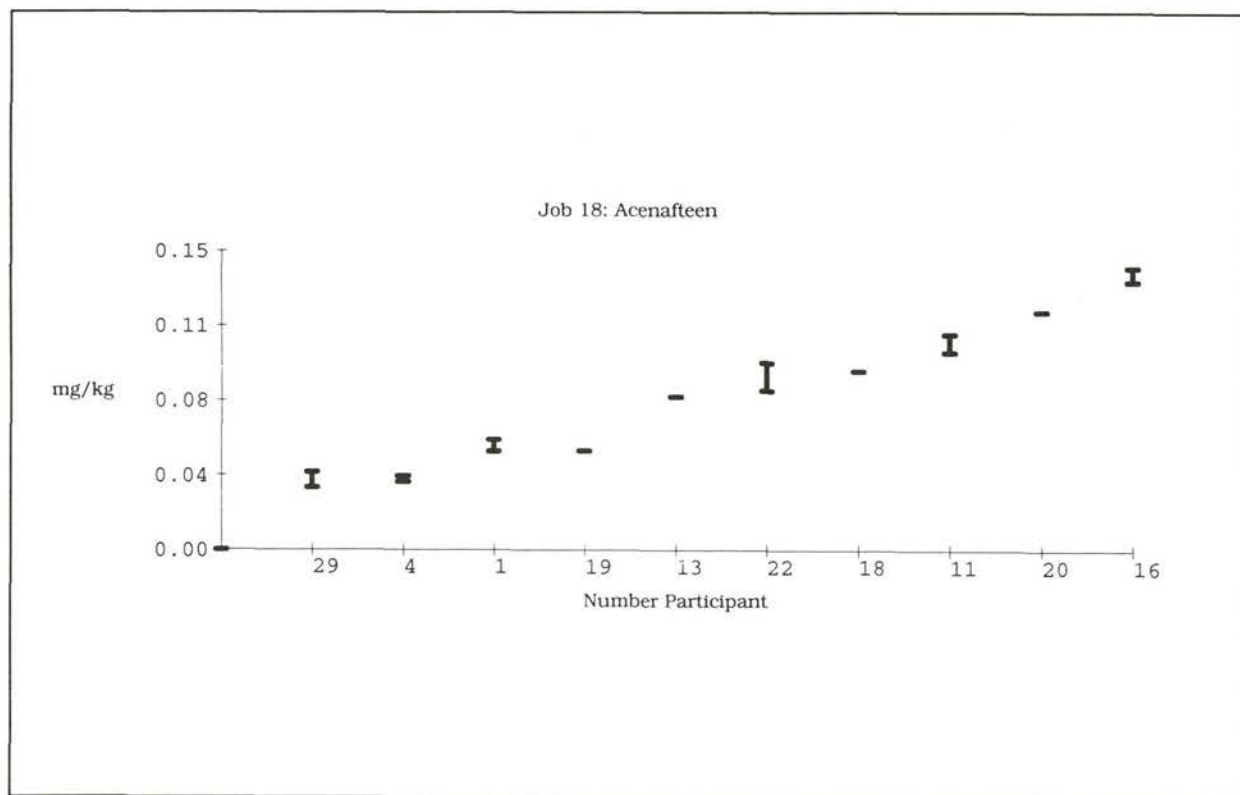
General Mean = 34.09531
Between lab standard deviation SL = .31518
Coefficient of variation = 1 %
Number of laboratories = 16

A: Number of laboratories with	Z	-scores between 0 and 1	; 10
B: Number of laboratories with	Z	-scores between 1 and 2	; 5
C: Number of laboratories with	Z	-scores between 2 and 3	; 1
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 18 : 99093, 99097

Acenafteen, Ace in mg/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	.04560 *	.05379 *	.04970 *	11.7 % *	
2 *			.00000 *	0 % *	- N.V.
3 *	1.00000 *	.70000 *	.00000 *	0 % *	- N.V. Manueel verwijderd
4 *	.03240 *	.03640 *	.03440 *	8.2 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *	.09300 *	.10600 *	.09950 *	9.2 % *	
12 *			.00000 *	0 % *	- N.V.
13 *	.07700 *	.07700 *	.07700 *	.0 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	.14000 *	.13000 *	.13500 *	5.2 % *	
17 *	.05000 *	.05000 *	.00000 *	0 % *	< N.V.
18 *	.09000 *	.09000 *	.09000 *	.0 % *	
19 *	.05000 *	.05000 *	.05000 *	.0 % *	
20 *	.12000 *	.12000 *	.12000 *	.0 % *	
21 *	.10000 *	.13000 *	.00000 *	0 % *	< N.V.
22 *	.09000 *	.07000 *	.08000 *	17.7 % *	
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	.05000 *	.11000 *	.00000 *	0 % *	< N.V.
26 *			.00000 *	0 % *	- N.V.
27 *			.00000 *	0 % *	- N.V.
28 *	.15000 *	.15000 *	.00000 *	0 % *	< N.V.
29 *	.02600 *	.03700 *	.03150 *	24.7 % *	



Analysis

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

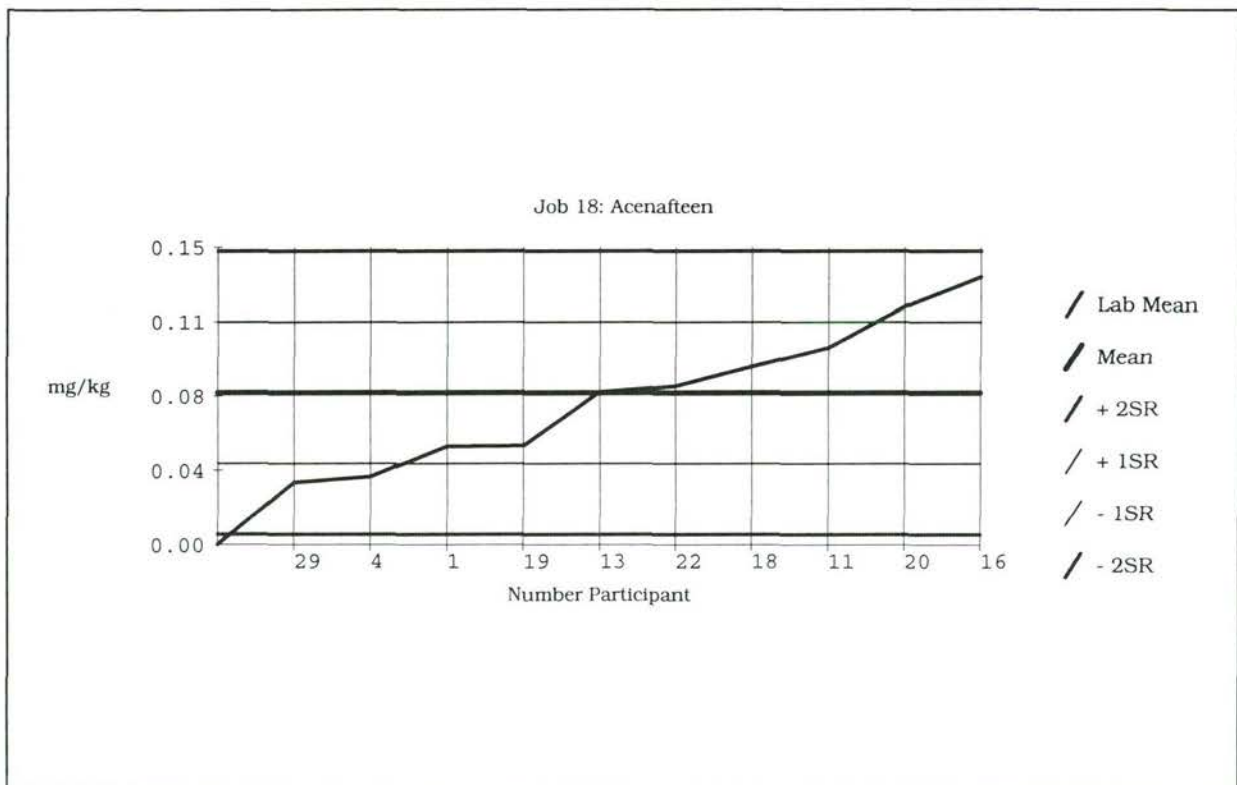
10 laboratory observations

Maximum absolute difference from Normal distribution: 0.17638. Critical value: 0.48900. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 1
2. General Mean = .07671
3. Repeatability
 - 3.1 Standard deviation $S_r = .00661$
 - 3.2 Coefficient of variation = 9 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .03567$
 - 4.2 Coefficient of variation = 47 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	*
7 *	.00000 *	G *	? *	? *	? *	? *	*
24 *	.00000 *	G *	LE *	Z *	LMC *	A-O-NEN 5771	*
8 *	.00000 *	G *	? *	? *	? *	? *	*
14 *	.00000 *	G *	- *	- *	- *	- *	*
25 *	.00000 *	G *	LH *	- *	LMC *	G-NEN 5771	*
2 *	.00000 *	G *	- *	- *	- *	- *	*
9 *	.00000 *	G *	- *	- *	- *	- *	*
15 *	.00000 *	G *	? *	? *	? *	? *	*
26 *	.00000 *	G *	- *	- *	- *	- *	*
3 *	.00000 *	G *	- *	- *	LMC *	NEN 5731	*
10 *	.00000 *	G *	- *	- *	- *	- *	*
21 *	.00000 *	G *	- *	- *	LMC *	NEN 5771	*
27 *	.00000 *	G *	- *	- *	- *	- *	*
17 *	.00000 *	G *	LE *	SC *	LMC *	HUIS	*
28 *	.00000 *	G *	- *	- *	- *	- *	*
5 *	.00000 *	G *	- *	- *	- *	- *	*
12 *	.00000 *	G *	- *	- *	- *	- *	*
23 *	.00000 *	G *	- *	- *	- *	- *	*
6 *	.00000 *	G *	- *	- *	- *	- *	*
29 *	.03150 *	B *	LD *	- *	LMC *	HUIS	*
4 *	.03440 *	B *	- *	- *	- *	- *	*
1 *	.04970 *	A *	S *	- *	LUF *	G-20-NEN 5771	*
19 *	.05000 *	A *	LE *	C *	LMC *	VPR C85-11	*
13 *	.07700 *	A *	LA *	- *	LUF *	HUIS	*
22 *	.08000 *	A *	- *	- *	- *	- *	*
18 *	.09000 *	A *	LA *	C *	LMC *	HUIS	*
11 *	.09950 *	A *	LE *	- *	LMC *	A-NEN 5771	*
20 *	.12000 *	B *	LE *	- *	LMC *	2e O-NEN 5771	*
16 *	.13500 *	B *	LE *	C *	LMC *	C-O-NEN 5771	*

General Mean = .07671

Between lab standard deviation SL = .03505

Coefficient of variation = 46 %

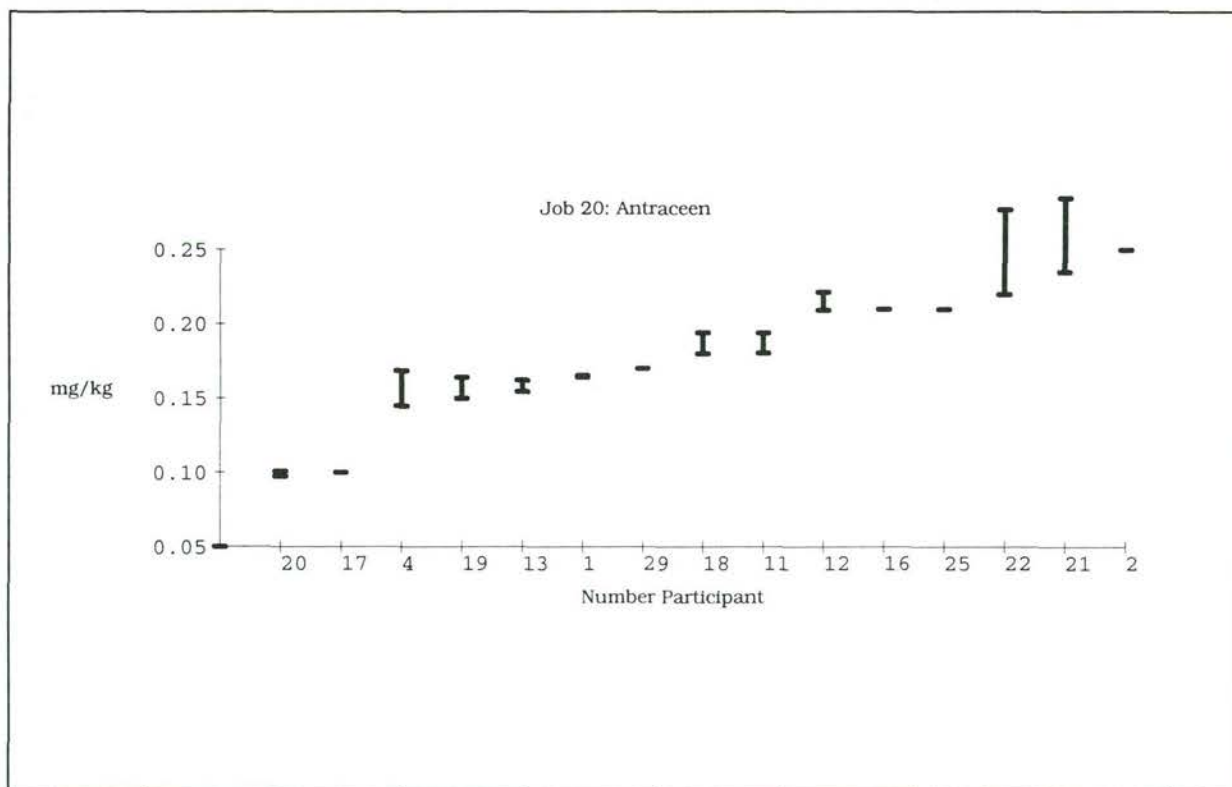
Number of laboratories = 10

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

Job 20 : 99093, 99097

Antraceen, Ant in mg/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	.16380 *	.16510 *	.16445 *	.6 % *	
2 *	.25000 *	.25000 *	.25000 *	.0 % *	
3 *	.41000 *	.34000 *	.00000 *	0 % *	- N.V.Manueel verwijderd
4 *	.12830 *	.16150 *	.14490 *	16.2 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *	.17100 *	.19000 *	.18050 *	7.4 % *	
12 *	.21800 *	.20100 *	.20950 *	5.7 % *	
13 *	.14900 *	.16000 *	.15450 *	5.0 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	.21000 *	.21000 *	.21000 *	.0 % *	
17 *	.10000 *	.10000 *	.10000 *	.0 % *	
18 *	.19000 *	.17000 *	.18000 *	7.9 % *	
19 *	.16000 *	.14000 *	.15000 *	9.4 % *	
20 *	.09500 *	.10000 *	.09750 *	3.6 % *	
21 *	.20000 *	.27000 *	.23500 *	21.1 % *	
22 *	.26000 *	.18000 *	.22000 *	25.7 % *	
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	.21000 *	.21000 *	.21000 *	.0 % *	
26 *			.00000 *	0 % *	- N.V.
27 *			.00000 *	0 % *	- N.V.
28 *	.15000 *	.15000 *	.00000 *	0 % *	< N.V.
29 *	.17000 *	.17000 *	.17000 *	.0 % *	



Analysis

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

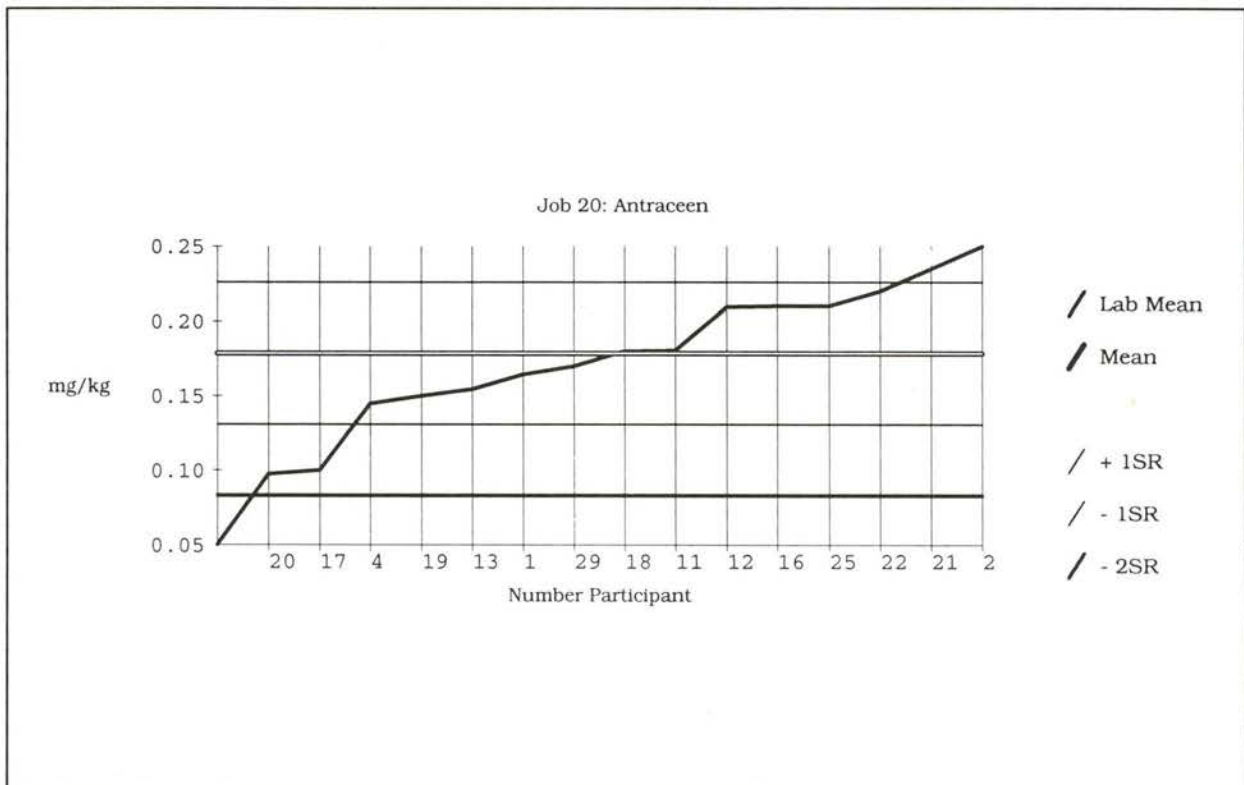
15 laboratory observations

Maximum absolute difference from Normal distribution: 0.09241. Critical value: 0.40400. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 1
2. General Mean = .17842
3. Repeatability
 - 3.1 Standard deviation $S_r = .02160$
 - 3.2 Coefficient of variation = 12 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .04763$
 - 4.2 Coefficient of variation = 27 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	G *	? *	? *	? *	? *	*
24 *	.00000 *	G *	LE *	Z *	LMC *	A-O-NEN 5771	*
8 *	.00000 *	G *	? *	? *	? *	? *	*
14 *	.00000 *	G *	- *	- *	- *	- *	*
9 *	.00000 *	G *	- *	- *	- *	- *	*
15 *	.00000 *	G *	? *	? *	? *	? *	*
26 *	.00000 *	G *	- *	- *	- *	- *	*
3 *	.00000 *	G *	- *	- *	LMC *	NEN 5731	*
10 *	.00000 *	G *	- *	- *	- *	- *	*
27 *	.00000 *	G *	- *	- *	- *	- *	*
28 *	.00000 *	G *	- *	- *	- *	- *	*
5 *	.00000 *	G *	- *	- *	- *	- *	*
23 *	.00000 *	G *	- *	- *	- *	- *	*
6 *	.00000 *	G *	- *	- *	- *	- *	*
20 *	.09750 *	B *	LE *	- *	LMC *	2e O-NEN 5771	*
17 *	.10000 *	B *	LE *	SC *	LMC *	HUIS	*
4 *	.14490 *	A *	- *	- *	- *	- *	*
19 *	.15000 *	A *	LE *	C *	LMC *	VPR C85-11	*
13 *	.15450 *	A *	LA *	- *	LUF *	HUIS	*
1 *	.16445 *	A *	- *	- *	- *	- *	*
29 *	.17000 *	A *	LD *	- *	LMC *	HUIS	*
18 *	.18000 *	A *	LA *	C *	LMC *	HUIS	*
11 *	.18050 *	A *	LE *	- *	LMC *	A-NEN 5771	*
12 *	.20950 *	A *	Z *	- *	LUF *	HUIS	*
25 *	.21000 *	A *	LH *	- *	LMC *	G-NEN 5771	*
16 *	.21000 *	A *	LE *	C *	LMC *	C-O-NEN 5771	*
22 *	.22000 *	A *	- *	- *	- *	- *	*
21 *	.23500 *	B *	- *	- *	LMC *	NEN 5771	*
2 *	.25000 *	B *	- *	- *	- *	- *	*

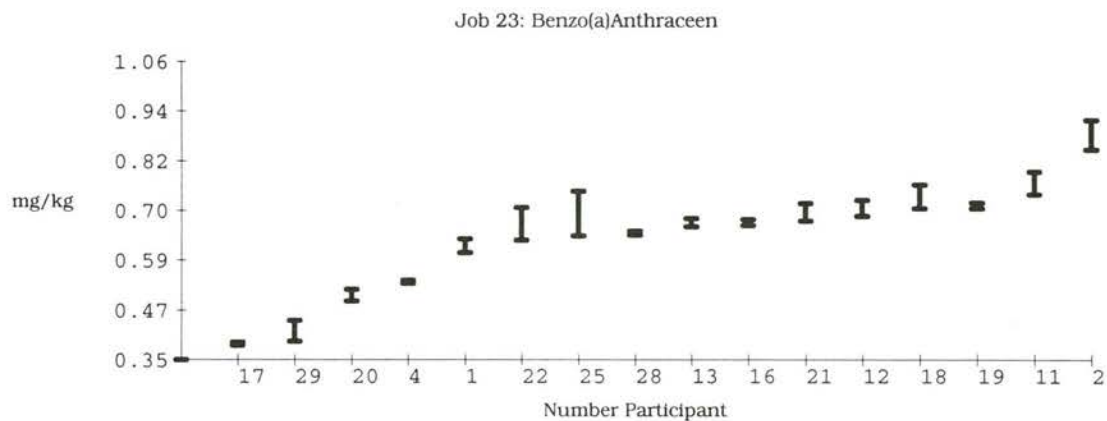
General Mean = .17842
Between lab standard deviation SL = .04244
Coefficient of variation = 24 %
Number of laboratories = 15

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

Job 23 : 99093, 99097

Benzo(a)Anthraceen, BaA in mg/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	.62820 *	.58150 *	.60485 *	5.5 % *	
2 *	.90000 *	.80000 *	.85000 *	8.3 % *	
3 *	.98000 *	.94000 *	.00000 *	0 % *	- N.V.Manueel verwijderd
4 *	.52690 *	.53710 *	.53200 *	1.4 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *	.70500 *	.78200 *	.74350 *	7.3 % *	
12 *	.71900 *	.66500 *	.69200 *	5.5 % *	
13 *	.65200 *	.68100 *	.66650 *	3.1 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	.68000 *	.66000 *	.67000 *	2.1 % *	
17 *	.38000 *	.39000 *	.38500 *	1.8 % *	
18 *	.75000 *	.67000 *	.71000 *	8.0 % *	
19 *	.72000 *	.70000 *	.71000 *	2.0 % *	
20 *	.47000 *	.51000 *	.49000 *	5.8 % *	
21 *	.65000 *	.71000 *	.68000 *	6.2 % *	
22 *	.69000 *	.58000 *	.63500 *	12.2 % *	
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	.72000 *	.57000 *	.64500 *	16.4 % *	
26 *			.00000 *	0 % *	- N.V.
27 *			.00000 *	0 % *	- N.V.
28 *	.64100 *	.65300 *	.64700 *	1.3 % *	
29 *	.36000 *	.43000 *	.39500 *	12.5 % *	



Analysis

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

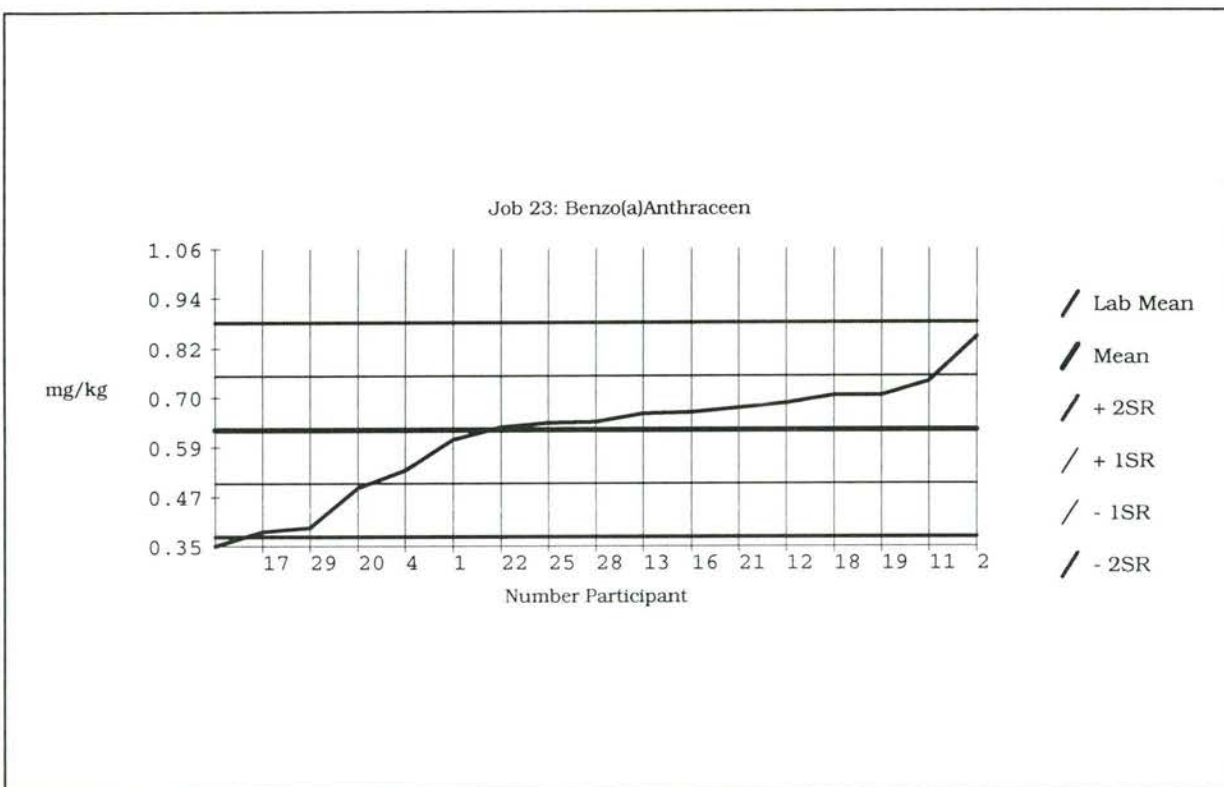
16 laboratory observations

Maximum absolute difference from Normal distribution: 0.14494. Critical value: 0.39200. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 1
2. General Mean = .62849
3. Repeatability
 - 3.1 Standard deviation $S_r = .04813$
 - 3.2 Coefficient of variation = 8 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .12815$
 - 4.2 Coefficient of variation = 20 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	G *	? *	? *	? *	? *	*
24 *	.00000 *	G *	LE *	Z *	LMC *	A-O-NEN 5771	*
8 *	.00000 *	G *	? *	? *	? *	? *	*
14 *	.00000 *	G *	- *	- *	- *	- *	*
9 *	.00000 *	G *	- *	- *	- *	- *	*
15 *	.00000 *	G *	? *	? *	? *	? *	*
26 *	.00000 *	G *	- *	- *	- *	- *	*
3 *	.00000 *	G *	- *	- *	LMC *	NEN 5731	*
10 *	.00000 *	G *	- *	- *	- *	- *	*
27 *	.00000 *	G *	- *	- *	- *	- *	*
5 *	.00000 *	G *	- *	- *	- *	- *	*
23 *	.00000 *	G *	- *	- *	- *	- *	*
6 *	.00000 *	G *	- *	- *	- *	- *	*
17 *	.38500 *	B *	LE *	SC *	LMC *	HUIS	*
29 *	.39500 *	B *	LD *	- *	LMC *	HUIS	*
20 *	.49000 *	B *	LE *	- *	LMC *	2e O-NEN 5771	*
4 *	.53200 *	A *	- *	- *	- *	- *	*
1 *	.60485 *	A *	- *	- *	- *	- *	*
22 *	.63500 *	A *	- *	- *	- *	- *	*
25 *	.64500 *	A *	LH *	- *	LMC *	G-NEN 5771	*
28 *	.64700 *	A *	- *	- *	- *	- *	*
13 *	.66650 *	A *	LA *	- *	LUF *	HUIS	*
16 *	.67000 *	A *	LE *	C *	LMC *	C-O-NEN 5771	*
21 *	.68000 *	A *	- *	- *	LMC *	NEN 5771	*
12 *	.69200 *	A *	Z *	- *	LUF *	HUIS	*
18 *	.71000 *	A *	LA *	C *	LMC *	HUIS	*
19 *	.71000 *	A *	LE *	C *	LMC *	VPR C85-11	*
11 *	.74350 *	A *	LE *	- *	LMC *	A-NEN 5771	*
2 *	.85000 *	B *	- *	- *	- *	- *	*

General Mean = .62849
Between lab standard deviation SL = .11877
Coefficient of variation = 19 %
Number of laboratories = 16

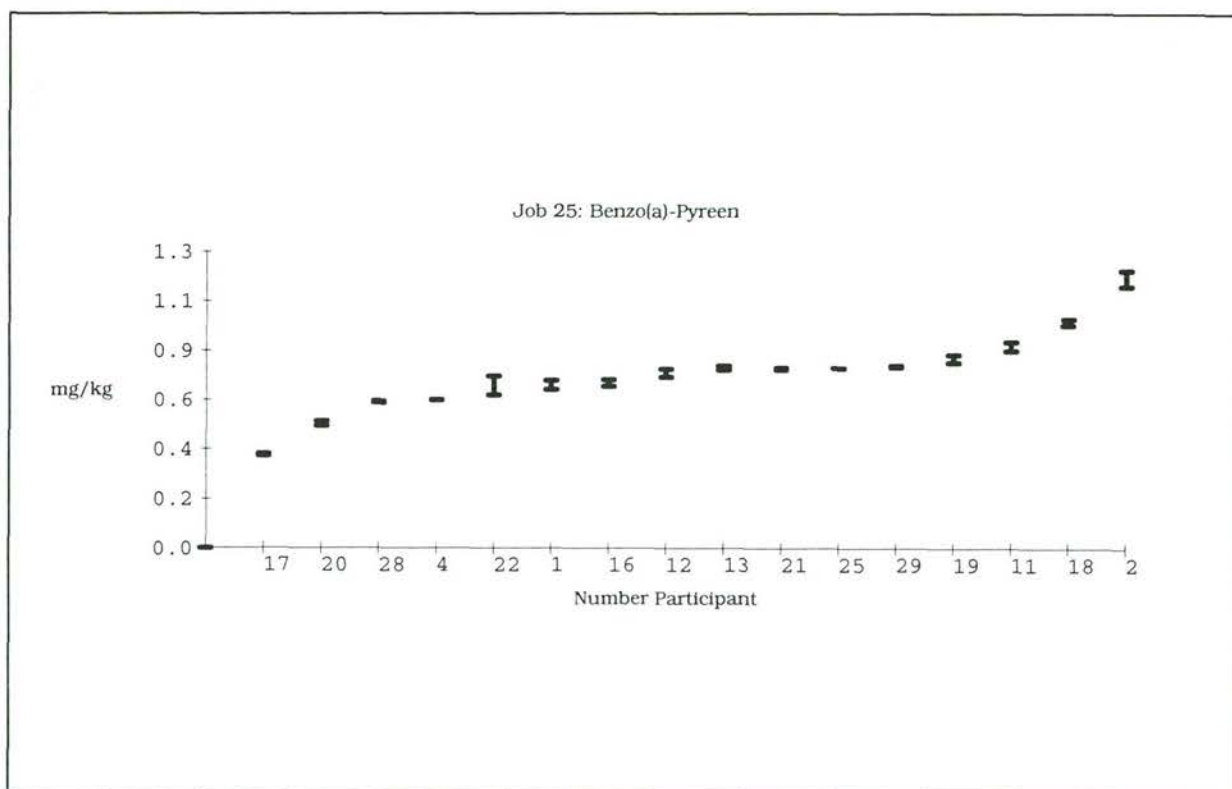
A: Number of laboratories with	Z	-scores between 0 and 1	; 12
B: Number of laboratories with	Z	-scores between 1 and 2	; 4
C: Number of laboratories with	Z	-scores between 2 and 3	; 0
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 25 : 99093, 99097

Benzo(a)-Pyreen, BaP in mg/kg Sediment (Lake)

Lab * X1 * X2 * Average * %Variance *

1 *	.72310 *	.66400 *	.69355 *	6.0 % *	
2 *	1.20000 *	1.10000 *	1.15000 *	6.1 % *	
3 *	1.09000 *	1.04000 *	.00000 *	0 % *	- N.V. Manueel verwijderd
4 *	.64740 *	.64890 *	.64815 *	.2 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *	.84000 *	.89500 *	.86750 *	4.5 % *	
12 *	.77700 *	.72800 *	.75250 *	4.6 % *	
13 *	.77000 *	.79500 *	.78250 *	2.3 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	.73000 *	.69000 *	.71000 *	4.0 % *	
17 *	.40000 *	.41000 *	.40500 *	1.7 % *	
18 *	1.00000 *	.96000 *	.98000 *	2.9 % *	
19 *	.84000 *	.79000 *	.81500 *	4.3 % *	
20 *	.52000 *	.55000 *	.53500 *	4.0 % *	
21 *	.79000 *	.78000 *	.78500 *	.9 % *	
22 *	.73000 *	.61000 *	.67000 *	12.7 % *	
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	.79000 *	.79000 *	.79000 *	.0 % *	
26 *			.00000 *	0 % *	- N.V.
27 *			.00000 *	0 % *	- N.V.
28 *	.63100 *	.64200 *	.63650 *	1.2 % *	
29 *	.80000 *	.79000 *	.79500 *	.9 % *	



Analysis

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

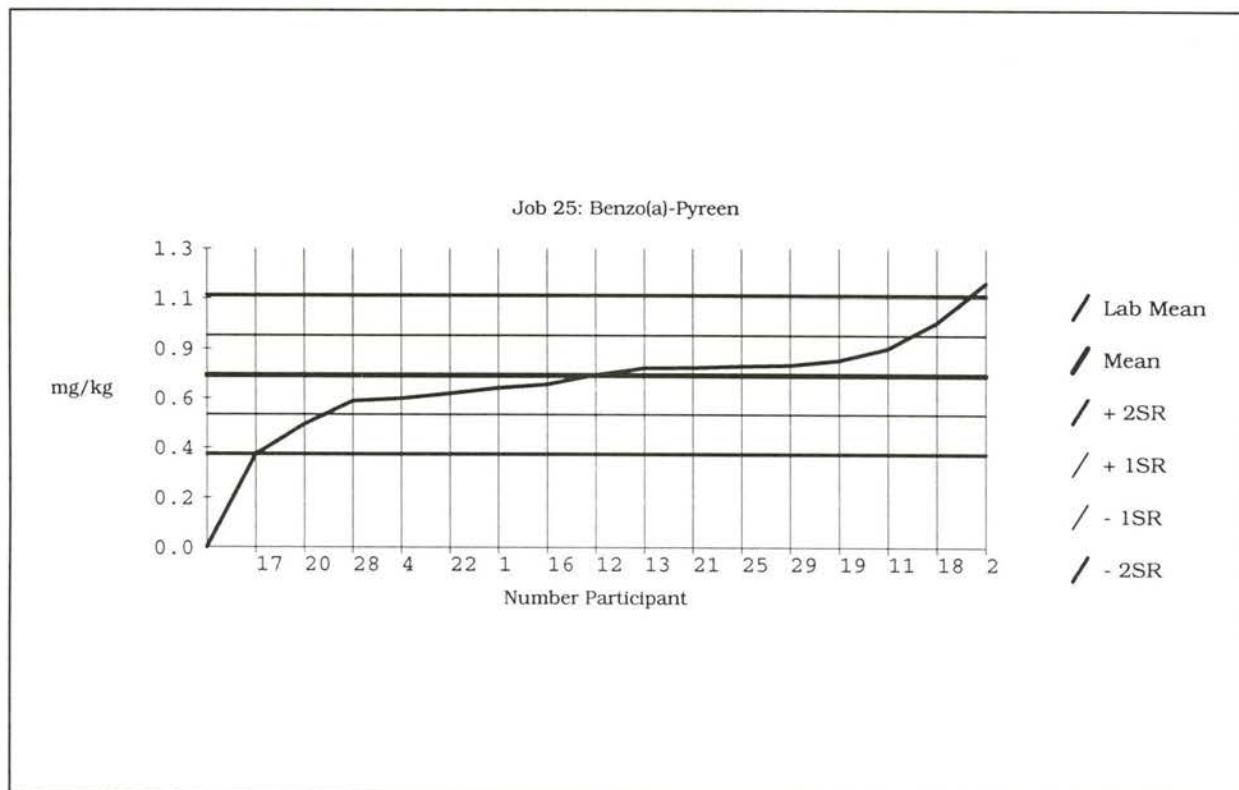
16 laboratory observations

Maximum absolute difference from Normal distribution: 0.16447. Critical value: 0.39200. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 1
2. General Mean = .75098
3. Repeatability
 - 3.1 Standard deviation $S_r = .03578$
 - 3.2 Coefficient of variation = 5 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .17246$
 - 4.2 Coefficient of variation = 23 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	G *	? *	? *	? *	? *	*
24 *	.00000 *	G *	LE *	Z *	LMC *	A-O-NEN 5771	*
8 *	.00000 *	G *	? *	? *	? *	? *	*
14 *	.00000 *	G *	- *	- *	- *	- *	*
9 *	.00000 *	G *	- *	- *	- *	- *	*
15 *	.00000 *	G *	? *	? *	? *	? *	*
26 *	.00000 *	G *	- *	- *	- *	- *	*
3 *	.00000 *	G *	- *	- *	LMC *	NEN 5731	*
10 *	.00000 *	G *	- *	- *	- *	- *	*
27 *	.00000 *	G *	- *	- *	- *	- *	*
5 *	.00000 *	G *	- *	- *	- *	- *	*
23 *	.00000 *	G *	- *	- *	- *	- *	*
6 *	.00000 *	G *	- *	- *	- *	- *	*
17 *	.40500 *	C *	LE *	SC *	LMC *	HUIS	*
20 *	.53500 *	B *	LE *	- *	LMC *	2e O-NEN 5771	*
28 *	.63650 *	A *	- *	- *	- *	- *	*
4 *	.64815 *	A *	- *	- *	- *	- *	*
22 *	.67000 *	A *	- *	- *	- *	- *	*
1 *	.69355 *	A *	- *	- *	- *	- *	*
16 *	.71000 *	A *	LE *	C *	LMC *	C-O-NEN 5771	*
12 *	.75250 *	A *	Z *	- *	LUF *	HUIS	*
13 *	.78250 *	A *	LA *	- *	LUF *	HUIS	*
21 *	.78500 *	A *	- *	- *	LMC *	NEN 5771	*
25 *	.79000 *	A *	LH *	- *	LMC *	G-NEN 5771	*
29 *	.79500 *	A *	LD *	- *	LMC *	HUIS	*
19 *	.81500 *	A *	LE *	C *	LMC *	VPR C85-11	*
11 *	.86750 *	A *	LE *	- *	LMC *	A-NEN 5771	*
18 *	.98000 *	B *	LA *	C *	LMC *	HUIS	*
2 *	1.15000 *	C *	- *	- *	- *	- *	*

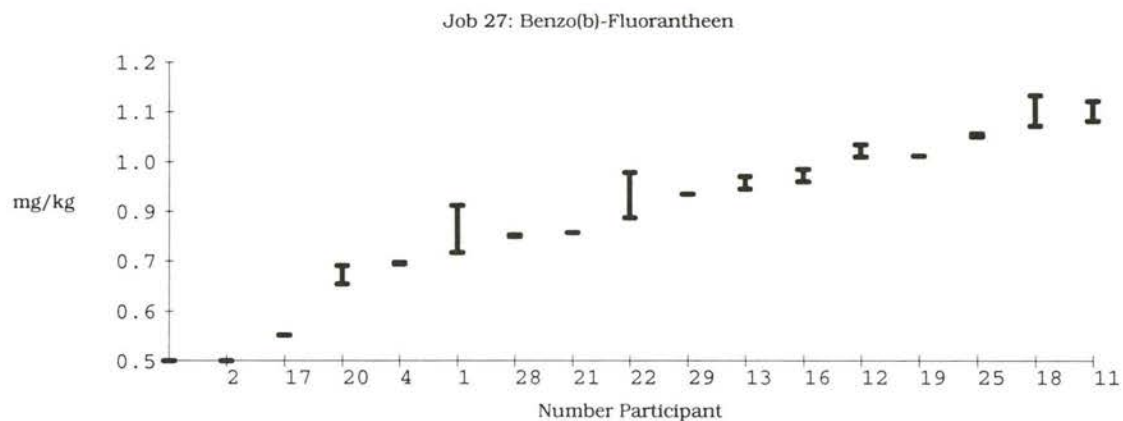
General Mean = .75098
Between lab standard deviation SL = .16870
Coefficient of variation = 22 %
Number of laboratories = 16

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

Job 27 : 99093, 99097

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

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	.83200 *	.67510 *	.75355 *	14.7 % *	
2 *	.50000 *	.50000 *	.50000 *	.0 % *	
3 *	1.12000 *	1.14000 *	.00000 *	0 % *	- N.V.Manueel verwijderd
4 *	.72930 *	.72450 *	.72690 *	.5 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *	1.02800 *	1.09400 *	1.06100 *	4.4 % *	
12 *	.99800 *	.95700 *	.97750 *	3.0 % *	
13 *	.88100 *	.92300 *	.90200 *	3.3 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	.94000 *	.90000 *	.92000 *	3.1 % *	
17 *	.56000 *	.56000 *	.56000 *	.0 % *	
18 *	1.10000 *	1.00000 *	1.05000 *	6.7 % *	
19 *	.98000 *	.98000 *	.98000 *	.0 % *	
20 *	.65000 *	.71000 *	.68000 *	6.2 % *	
21 *	.80000 *	.80000 *	.80000 *	.0 % *	
22 *	.91000 *	.76000 *	.83500 *	12.7 % *	
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	1.02000 *	1.03000 *	1.02500 *	.7 % *	
26 *			.00000 *	0 % *	- N.V.
27 *			.00000 *	0 % *	- N.V.
28 *	.78900 *	.79400 *	.79150 *	.4 % *	
29 *	.89000 *	.89000 *	.89000 *	.0 % *	



Analysis

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

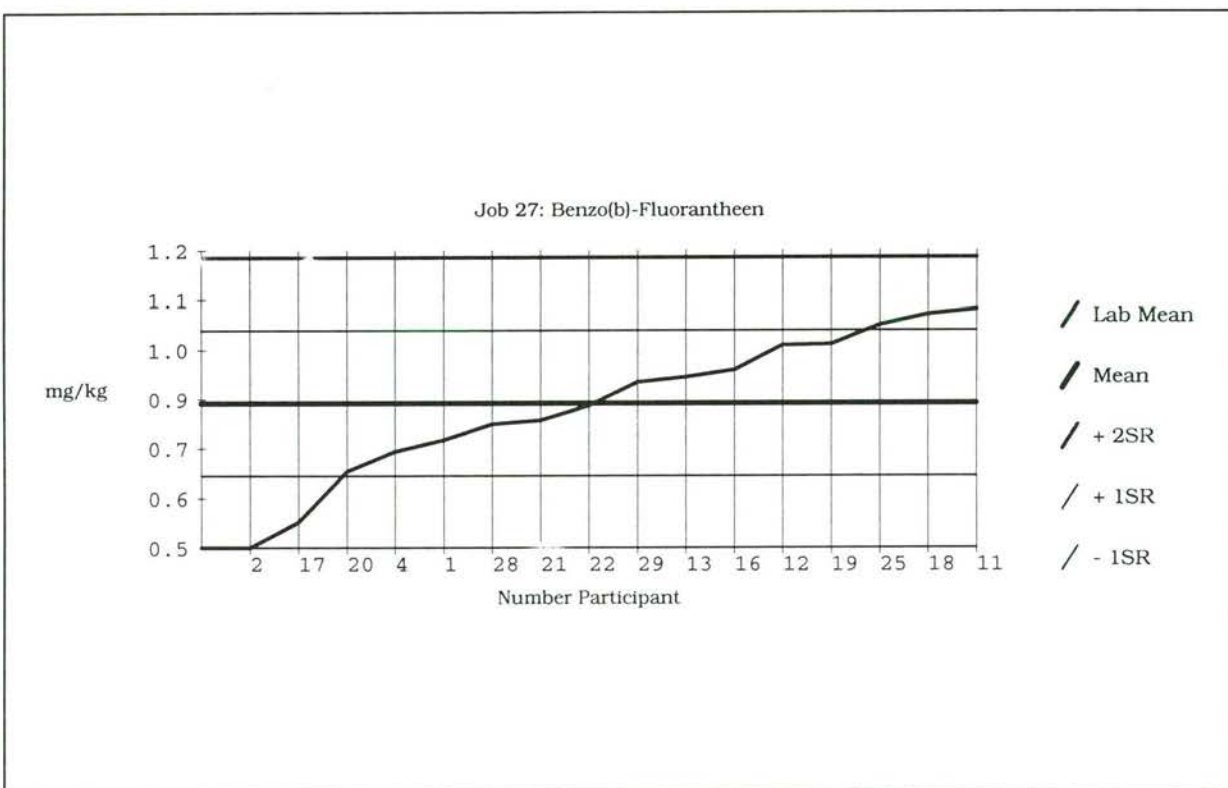
16 laboratory observations

Maximum absolute difference from Normal distribution: 0.09509. Critical value: 0.39200. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 1
2. General Mean = .84078
3. Repeatability
 - 3.1 Standard deviation $S_r = .04686$
 - 3.2 Coefficient of variation = 6 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .17102$
 - 4.2 Coefficient of variation = 20 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	G *	? *	? *	? *	? *	*
24 *	.00000 *	G *	LE *	Z *	LMC *	A-O-NEN 5771	*
8 *	.00000 *	G *	? *	? *	? *	? *	*
14 *	.00000 *	G *	- *	- *	- *	- *	*
9 *	.00000 *	G *	- *	- *	- *	- *	*
15 *	.00000 *	G *	? *	? *	? *	? *	*
26 *	.00000 *	G *	- *	- *	- *	- *	*
3 *	.00000 *	G *	- *	- *	LMC *	NEN 5731	*
10 *	.00000 *	G *	- *	- *	- *	- *	*
27 *	.00000 *	G *	- *	- *	- *	- *	*
5 *	.00000 *	G *	- *	- *	- *	- *	*
23 *	.00000 *	G *	- *	- *	- *	- *	*
6 *	.00000 *	G *	- *	- *	- *	- *	*
2 *	.50000 *	C *	- *	- *	- *	- *	*
17 *	.56000 *	B *	LE *	SC *	LMC *	HUIS	*
20 *	.68000 *	A *	LE *	- *	LMC *	2e O-NEN 5771	*
4 *	.72690 *	A *	- *	- *	- *	- *	*
1 *	.75355 *	A *	- *	- *	- *	- *	*
28 *	.79150 *	A *	- *	- *	- *	- *	*
21 *	.80000 *	A *	- *	- *	LMC *	NEN 5771	*
22 *	.83500 *	A *	- *	- *	- *	- *	*
29 *	.89000 *	A *	LD *	- *	LMC *	HUIS	*
13 *	.90200 *	A *	LA *	- *	LUF *	HUIS	*
16 *	.92000 *	A *	LE *	C *	LMC *	C-O-NEN 5771	*
12 *	.97750 *	A *	Z *	- *	LUF *	HUIS	*
19 *	.98000 *	A *	LE *	C *	LMC *	VPR C85-11	*
25 *	1.02500 *	B *	LH *	- *	LMC *	G-NEN 5771	*
18 *	1.05000 *	B *	LA *	C *	LMC *	HUIS	*
11 *	1.06100 *	B *	LE *	- *	LMC *	A-NEN 5771	*

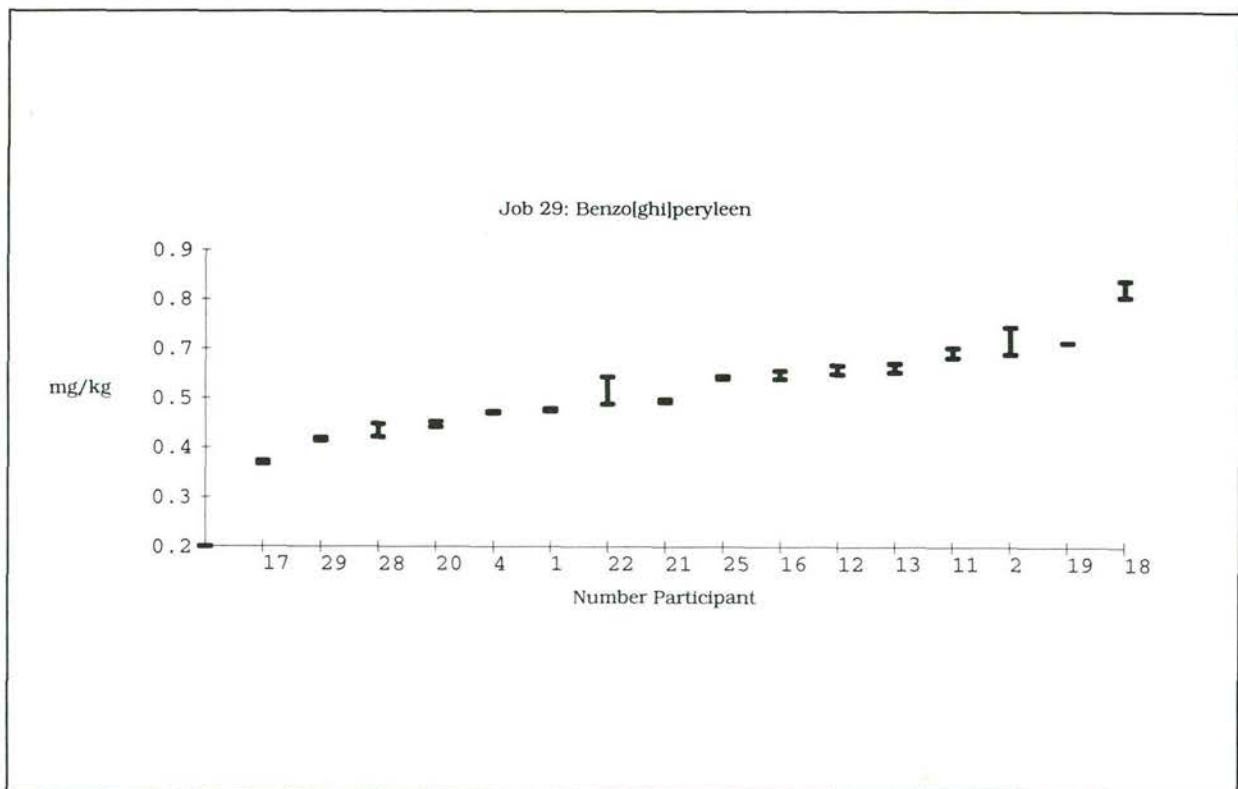
General Mean = .84078
Between lab standard deviation SL = .16447
Coefficient of variation = 20 %
Number of laboratories = 16

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

Job 29 : 99093, 99097

Benzo[ghi]perylene, BghiP in mg/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	.49700 *	.50540 *	.50120 *	1.2 % *	
2 *	.70000 *	.60000 *	.65000 *	10.9 % *	
3 *	.78000 *	.94000 *	.00000 *	0 % *	- N.V. Manueel verwijderd
4 *	.49980 *	.49440 *	.49710 *	.8 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *	.62200 *	.65900 *	.64050 *	4.1 % *	
12 *	.61400 *	.58200 *	.59800 *	3.8 % *	
13 *	.58700 *	.61900 *	.60300 *	3.8 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	.60000 *	.57000 *	.58500 *	3.6 % *	
17 *	.37000 *	.36000 *	.36500 *	1.9 % *	
18 *	.83000 *	.77000 *	.80000 *	5.3 % *	
19 *	.68000 *	.68000 *	.68000 *	.0 % *	
20 *	.45000 *	.47000 *	.46000 *	3.1 % *	
21 *	.53000 *	.52000 *	.52500 *	1.3 % *	
22 *	.57000 *	.47000 *	.52000 *	13.6 % *	
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	.59000 *	.58000 *	.58500 *	1.2 % *	
26 *			.00000 *	0 % *	- N.V.
27 *			.00000 *	0 % *	- N.V.
28 *	.41000 *	.45900 *	.43450 *	8.0 % *	
29 *	.42000 *	.43000 *	.42500 *	1.7 % *	



Analysis

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

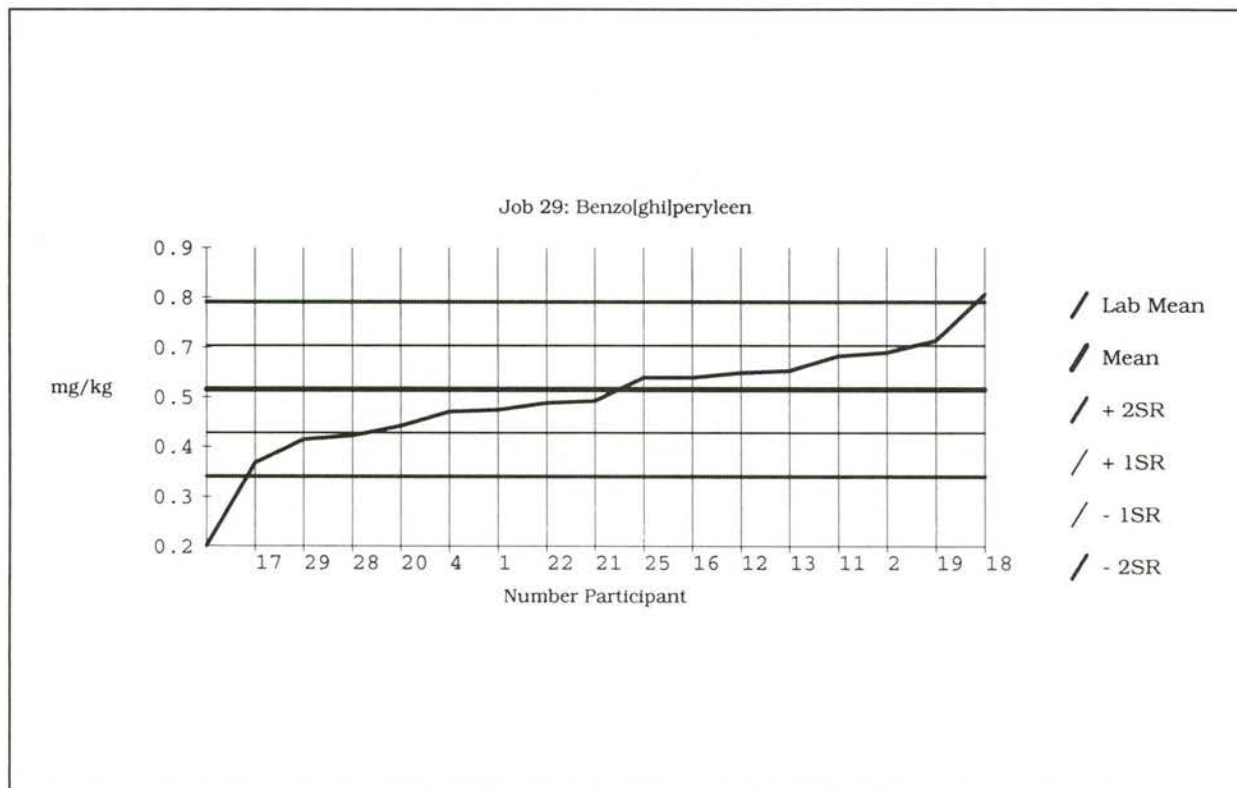
16 laboratory observations

Maximum absolute difference from Normal distribution: 0.10642. Critical value: 0.39200. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 1
2. General Mean = .55433
3. Repeatability
 - 3.1 Standard deviation $S_r = .03123$
 - 3.2 Coefficient of variation = 6 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .11260$
 - 4.2 Coefficient of variation = 20 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	G *	? *	? *	? *	? *	*
24 *	.00000 *	G *	LE *	Z *	LMC *	A-O-NEN 5771	*
8 *	.00000 *	G *	? *	? *	? *	? *	*
14 *	.00000 *	G *	- *	- *	- *	- *	*
9 *	.00000 *	G *	- *	- *	- *	- *	*
15 *	.00000 *	G *	? *	? *	? *	? *	*
26 *	.00000 *	G *	- *	- *	- *	- *	*
3 *	.00000 *	G *	- *	- *	LMC *	NEN 5731	*
10 *	.00000 *	G *	- *	- *	- *	- *	*
27 *	.00000 *	G *	- *	- *	- *	- *	*
5 *	.00000 *	G *	- *	- *	- *	- *	*
23 *	.00000 *	G *	- *	- *	- *	- *	*
6 *	.00000 *	G *	- *	- *	- *	- *	*
17 *	.36500 *	B *	LE *	SC *	LMC *	HUIS	*
29 *	.42500 *	B *	LD *	- *	LMC *	HUIS	*
28 *	.43450 *	B *	- *	- *	- *	- *	*
20 *	.46000 *	A *	LE *	- *	LMC *	2e O-NEN 5771	*
4 *	.49710 *	A *	- *	- *	- *	- *	*
1 *	.50120 *	A *	- *	- *	- *	- *	*
22 *	.52000 *	A *	- *	- *	- *	- *	*
21 *	.52500 *	A *	- *	- *	LMC *	NEN 5771	*
25 *	.58500 *	A *	LH *	- *	LMC *	G-NEN 5771	*
16 *	.58500 *	A *	LE *	C *	LMC *	C-O-NEN 5771	*
12 *	.59800 *	A *	Z *	- *	LUF *	HUIS	*
13 *	.60300 *	A *	LA *	- *	LUF *	HUIS	*
11 *	.64050 *	A *	LE *	- *	LMC *	A-NEN 5771	*
2 *	.65000 *	A *	- *	- *	- *	- *	*
19 *	.68000 *	B *	LE *	C *	LMC *	VPR C85-11	*
18 *	.80000 *	C *	LA *	C *	LMC *	HUIS	*

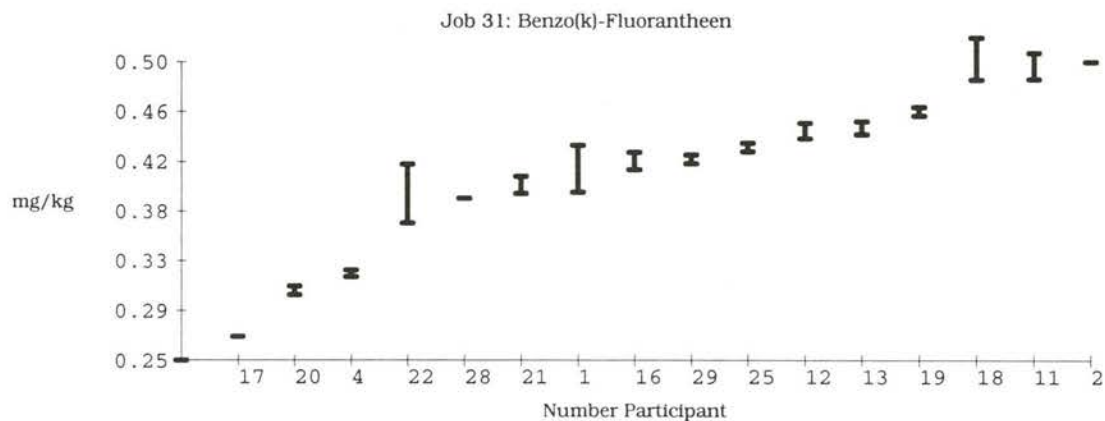
General Mean = .55433
Between lab standard deviation SL = .10818
Coefficient of variation = 20 %
Number of laboratories = 16

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

Job 31 : 99093, 99097

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

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	.41880 *	.36350 *	.39115 *	10.0 %	*
2 *	.50000 *	.50000 *	.50000 *	.0 %	*
3 *	.53000 *	.54000 *	.00000 *	0 %	* - N.V.Manueel verwijderd
4 *	.31570 *	.32400 *	.31985 *	1.8 %	*
5 *	*	*	.00000 *	0 %	* - N.V.
6 *	*	*	.00000 *	0 %	* - N.V.
7 *	*	*	.00000 *	0 %	* - N.V.
8 *	*	*	.00000 *	0 %	* - N.V.
9 *	*	*	.00000 *	0 %	* - N.V.
10 *	*	*	.00000 *	0 %	* - N.V.
11 *	.47000 *	.50100 *	.48550 *	4.5 %	*
12 *	.44500 *	.42700 *	.43600 *	2.9 %	*
13 *	.43200 *	.44700 *	.43950 *	2.4 %	*
14 *	*	*	.00000 *	0 %	* - N.V.
15 *	*	*	.00000 *	0 %	* - N.V.
16 *	.42000 *	.40000 *	.41000 *	3.4 %	*
17 *	.27000 *	.27000 *	.27000 *	.0 %	*
18 *	.51000 *	.46000 *	.48500 *	7.3 %	*
19 *	.46000 *	.45000 *	.45500 *	1.6 %	*
20 *	.30000 *	.31000 *	.30500 *	2.3 %	*
21 *	.38000 *	.40000 *	.39000 *	3.6 %	*
22 *	.40000 *	.33000 *	.36500 *	13.6 %	*
23 *	*	*	.00000 *	0 %	* - N.V.
24 *	*	*	.00000 *	0 %	* - N.V.
25 *	.43000 *	.42000 *	.42500 *	1.7 %	*
26 *	*	*	.00000 *	0 %	* - N.V.
27 *	*	*	.00000 *	0 %	* - N.V.
28 *	.38600 *	.38600 *	.38600 *	.0 %	*
29 *	.41000 *	.42000 *	.41500 *	1.7 %	*



Analysis

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

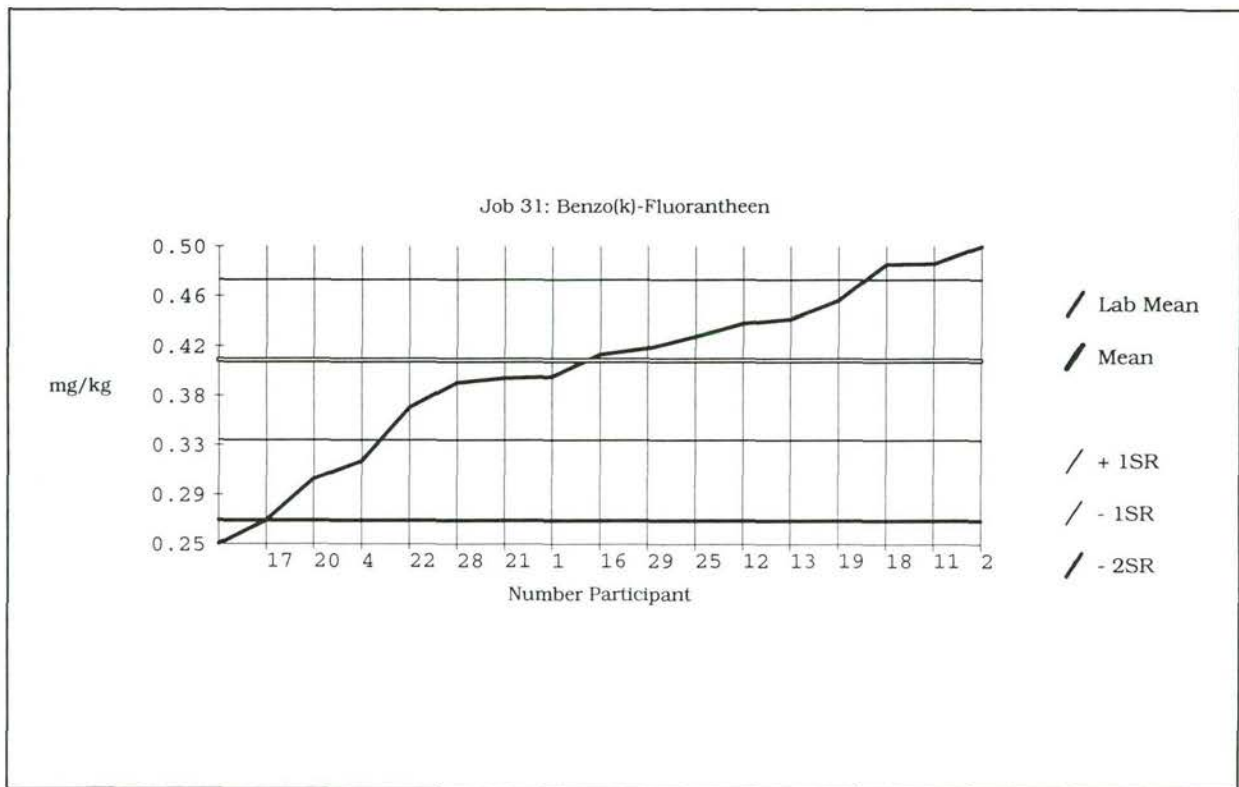
16 laboratory observations

Maximum absolute difference from Normal distribution: 0.08898. Critical value: 0.39200. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 1
2. General Mean = .40488
3. Repeatability
 - 3.1 Standard deviation $S_r = .02034$
 - 3.2 Coefficient of variation = 5 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .06735$
 - 4.2 Coefficient of variation = 17 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	G *	? *	? *	? *	? *	*
24 *	.00000 *	G *	LE *	Z *	LMC *	A-O-NEN 5771	*
8 *	.00000 *	G *	? *	? *	? *	? *	*
14 *	.00000 *	G *	- *	- *	- *	- *	*
9 *	.00000 *	G *	- *	- *	- *	- *	*
15 *	.00000 *	G *	? *	? *	? *	? *	*
26 *	.00000 *	G *	- *	- *	- *	- *	*
3 *	.00000 *	G *	- *	- *	LMC *	NEN 5731	*
10 *	.00000 *	G *	- *	- *	- *	- *	*
27 *	.00000 *	G *	- *	- *	- *	- *	*
5 *	.00000 *	G *	- *	- *	- *	- *	*
23 *	.00000 *	G *	- *	- *	- *	- *	*
6 *	.00000 *	G *	- *	- *	- *	- *	*
17 *	.27000 *	C *	LE *	SC *	LMC *	HUIS	*
20 *	.30500 *	B *	LE *	- *	LMC *	2e O-NEN 5771	*
4 *	.31985 *	B *	- *	- *	- *	- *	*
22 *	.36500 *	A *	- *	- *	- *	- *	*
28 *	.38600 *	A *	- *	- *	- *	- *	*
21 *	.39000 *	A *	- *	- *	LMC *	NEN 5771	*
1 *	.39115 *	A *	- *	- *	- *	- *	*
16 *	.41000 *	A *	LE *	C *	LMC *	C-O-NEN 5771	*
29 *	.41500 *	A *	LD *	- *	LMC *	HUIS	*
25 *	.42500 *	A *	LH *	- *	LMC *	G-NEN 5771	*
12 *	.43600 *	A *	Z *	- *	LUF *	HUIS	*
13 *	.43950 *	A *	LA *	- *	LUF *	HUIS	*
19 *	.45500 *	A *	LE *	C *	LMC *	VPR C85-11	*
18 *	.48500 *	B *	LA *	C *	LMC *	HUIS	*
11 *	.48550 *	B *	LE *	- *	LMC *	A-NEN 5771	*
2 *	.50000 *	B *	- *	- *	- *	- *	*

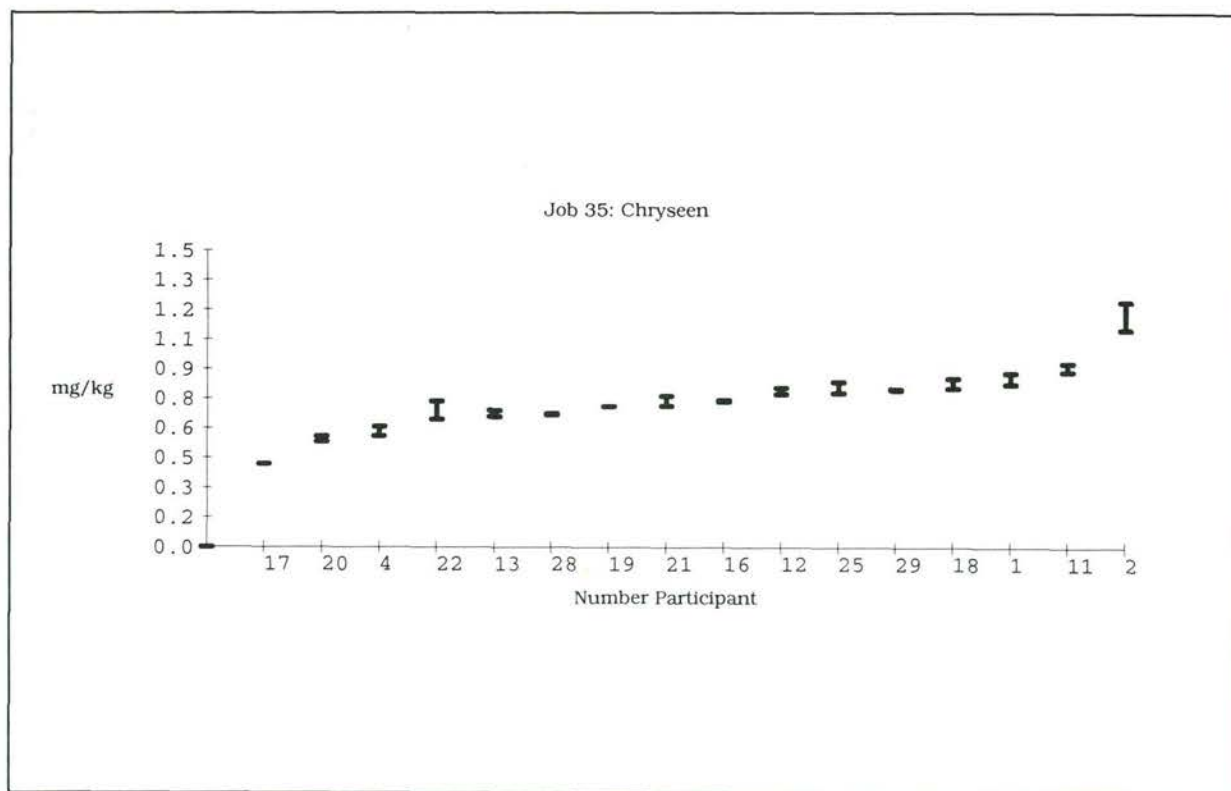
General Mean = .40488
Between lab standard deviation SL = .06420
Coefficient of variation = 16 %
Number of laboratories = 16

A: Number of laboratories with	Z	-scores between 0 and 1	; 10
B: Number of laboratories with	Z	-scores between 1 and 2	; 5
C: Number of laboratories with	Z	-scores between 2 and 3	; 1
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 35 : 99093, 99097

Chryseen, Chr in mg/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	.86550 *	.78370 *	.82460 *	7.0 % *	
2 *	1.20000 *	1.00000 *	1.10000 *	12.9 % *	
3 *	.97000 *	.95000 *	.00000 *	0 % *	- N.V.Manueel verwijderd
4 *	.52690 *	.59300 *	.55995 *	8.3 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *	.85600 *	.91900 *	.88750 *	5.0 % *	
12 *	.79700 *	.75100 *	.77400 *	4.2 % *	
13 *	.63500 *	.68100 *	.65800 *	4.9 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	.74000 *	.73000 *	.73500 *	1.0 % *	
17 *	.42000 *	.42000 *	.42000 *	.0 % *	
18 *	.84000 *	.77000 *	.80500 *	6.1 % *	
19 *	.71000 *	.71000 *	.71000 *	.0 % *	
20 *	.51000 *	.55000 *	.53000 *	5.3 % *	
21 *	.68000 *	.75000 *	.71500 *	6.9 % *	
22 *	.71000 *	.58000 *	.64500 *	14.3 % *	
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	.82000 *	.74000 *	.78000 *	7.3 % *	
26 *			.00000 *	0 % *	- N.V.
27 *			.00000 *	0 % *	- N.V.
28 *	.66200 *	.67200 *	.66700 *	1.1 % *	
29 *	.80000 *	.79000 *	.79500 *	.9 % *	



Analysis

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

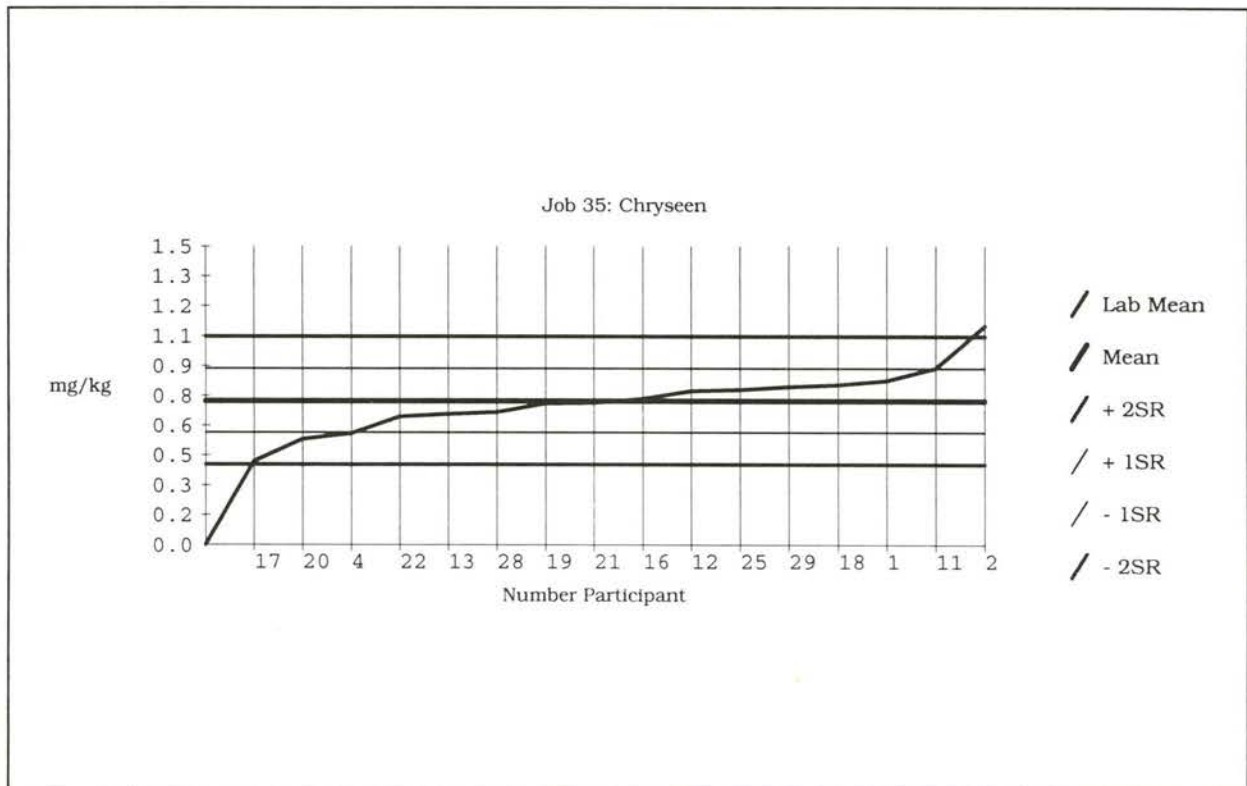
16 laboratory observations

Maximum absolute difference from Normal distribution: 0.13934. Critical value: 0.39200. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 1
2. General Mean = .72538
3. Repeatability
 - 3.1 Standard deviation $S_r = .05427$
 - 3.2 Coefficient of variation = 7 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .16098$
 - 4.2 Coefficient of variation = 22 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	G *	? *	? *	? *	? *	*
24 *	.00000 *	G *	LE *	Z *	LMC *	A-O-NEN 5771	*
8 *	.00000 *	G *	? *	? *	? *	? *	*
14 *	.00000 *	G *	- *	- *	- *	- *	*
9 *	.00000 *	G *	- *	- *	- *	- *	*
15 *	.00000 *	G *	? *	? *	? *	? *	*
26 *	.00000 *	G *	- *	- *	- *	- *	*
3 *	.00000 *	G *	- *	- *	LMC *	NEN 5731	*
10 *	.00000 *	G *	- *	- *	- *	- *	*
27 *	.00000 *	G *	- *	- *	- *	- *	*
5 *	.00000 *	G *	- *	- *	- *	- *	*
23 *	.00000 *	G *	- *	- *	- *	- *	*
6 *	.00000 *	G *	- *	- *	- *	- *	*
17 *	.42000 *	B *	LE *	SC *	LMC *	HUIS	*
20 *	.53000 *	B *	LE *	- *	LMC *	2e O-NEN 5771	*
4 *	.55995 *	B *	- *	- *	- *	- *	*
22 *	.64500 *	A *	- *	- *	- *	- *	*
13 *	.65800 *	A *	LA *	- *	LUF *	HUIS	*
28 *	.66700 *	A *	- *	- *	- *	- *	*
19 *	.71000 *	A *	LE *	C *	LMC *	VPR C85-11	*
21 *	.71500 *	A *	- *	- *	LMC *	NEN 5771	*
16 *	.73500 *	A *	LE *	C *	LMC *	C-O-NEN 5771	*
12 *	.77400 *	A *	Z *	- *	LUF *	HUIS	*
25 *	.78000 *	A *	LH *	- *	LMC *	G-NEN 5771	*
29 *	.79500 *	A *	LD *	- *	LMC *	HUIS	*
18 *	.80500 *	A *	LA *	C *	LMC *	HUIS	*
1 *	.82460 *	A *	- *	- *	- *	- *	*
11 *	.88750 *	B *	LE *	- *	LMC *	A-NEN 5771	*
2 *	1.10000 *	C *	- *	- *	- *	- *	*

General Mean = .72538

Between lab standard deviation SL = .15156

Coefficient of variation = 21 %

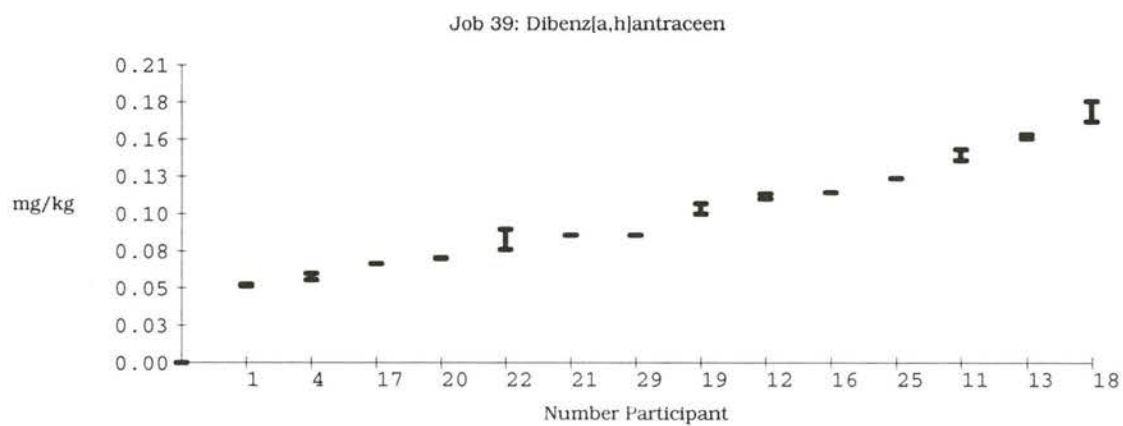
Number of laboratories = 16

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

Job 39 : 99093, 99097

Dibenz[a,h]antraceen, DBahA in mg/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	.05490 *	.05286 *	.05388 *	2.7 % *	
2 *			.00000 *	0 % *	- N.V.
3 *	.18000 *	.16000 *	.00000 *	0 % *	- N.V. Manueel verwijderd
4 *	.06160 *	.05540 *	.05850 *	7.5 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *	.13700 *	.14800 *	.14250 *	5.5 % *	
12 *	.11800 *	.11300 *	.11550 *	3.1 % *	
13 *	.15600 *	.16000 *	.15800 *	1.8 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	.12000 *	.12000 *	.12000 *	.0 % *	
17 *	.07000 *	.07000 *	.07000 *	.0 % *	
18 *	.18000 *	.16000 *	.17000 *	8.3 % *	
19 *	.11000 *	.10000 *	.10500 *	6.7 % *	
20 *	.07300 *	.07400 *	.07350 *	1.0 % *	
21 *	.09000 *	.09000 *	.09000 *	.0 % *	
22 *	.09000 *	.07000 *	.08000 *	17.7 % *	
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	.13000 *	.13000 *	.13000 *	.0 % *	
26 *			.00000 *	0 % *	- N.V.
27 *			.00000 *	0 % *	- N.V.
28 *	.10000 *	.10000 *	.00000 *	0 % *	< N.V.
29 *	.09000 *	.09000 *	.09000 *	.0 % *	



Analysis

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

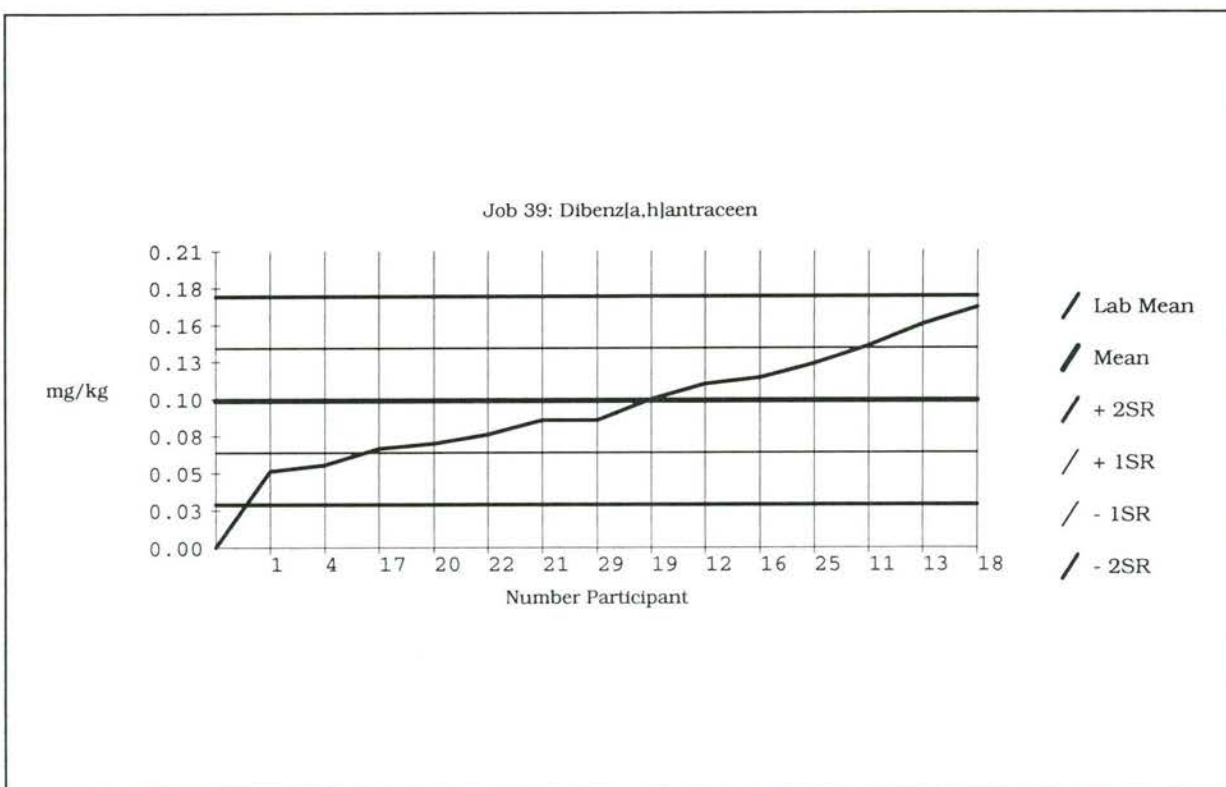
14 laboratory observations

Maximum absolute difference from Normal distribution: 0.14803. Critical value: 0.41800. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 1
2. General Mean = .10406
3. Repeatability
 - 3.1 Standard deviation $S_r = .00628$
 - 3.2 Coefficient of variation = 6 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .03691$
 - 4.2 Coefficient of variation = 35 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000	G *	? *	? *	? *	? *	*
24 *	.00000	G *	LE *	Z *	LMC *	A-O-NEN 5771	*
8 *	.00000	G *	? *	? *	? *	? *	*
14 *	.00000	G *	- *	- *	- *	- *	*
2 *	.00000	G *	- *	- *	- *	- *	*
9 *	.00000	G *	- *	- *	- *	- *	*
15 *	.00000	G *	? *	? *	? *	? *	*
26 *	.00000	G *	- *	- *	- *	- *	*
3 *	.00000	G *	- *	- *	LMC *	NEN 5731	*
10 *	.00000	G *	- *	- *	- *	- *	*
27 *	.00000	G *	- *	- *	- *	- *	*
28 *	.00000	G *	- *	- *	- *	- *	*
5 *	.00000	G *	- *	- *	- *	- *	*
23 *	.00000	G *	- *	- *	- *	- *	*
6 *	.00000	G *	- *	- *	- *	- *	*
1 *	.05388	B *	- *	- *	- *	- *	*
4 *	.05850	B *	- *	- *	- *	- *	*
17 *	.07000	A *	LE *	SC *	LMC *	HUIS	*
20 *	.07350	A *	LE *	- *	LMC *	2e O-NEN 5771	*
22 *	.08000	A *	- *	- *	- *	- *	*
21 *	.09000	A *	- *	- *	LMC *	NEN 5771	*
29 *	.09000	A *	LD *	- *	LMC *	HUIS	*
19 *	.10500	A *	LE *	C *	LMC *	VPR C85-11	*
12 *	.11550	A *	Z *	- *	LUF *	HUIS	*
16 *	.12000	A *	LE *	C *	LMC *	C-O-NEN 5771	*
25 *	.13000	A *	LH *	- *	LMC *	G-NEN 5771	*
11 *	.14250	B *	LE *	- *	LMC *	A-NEN 5771	*
13 *	.15800	B *	LA *	- *	LUF *	HUIS	*
18 *	.17000	B *	LA *	C *	LMC *	HUIS	*

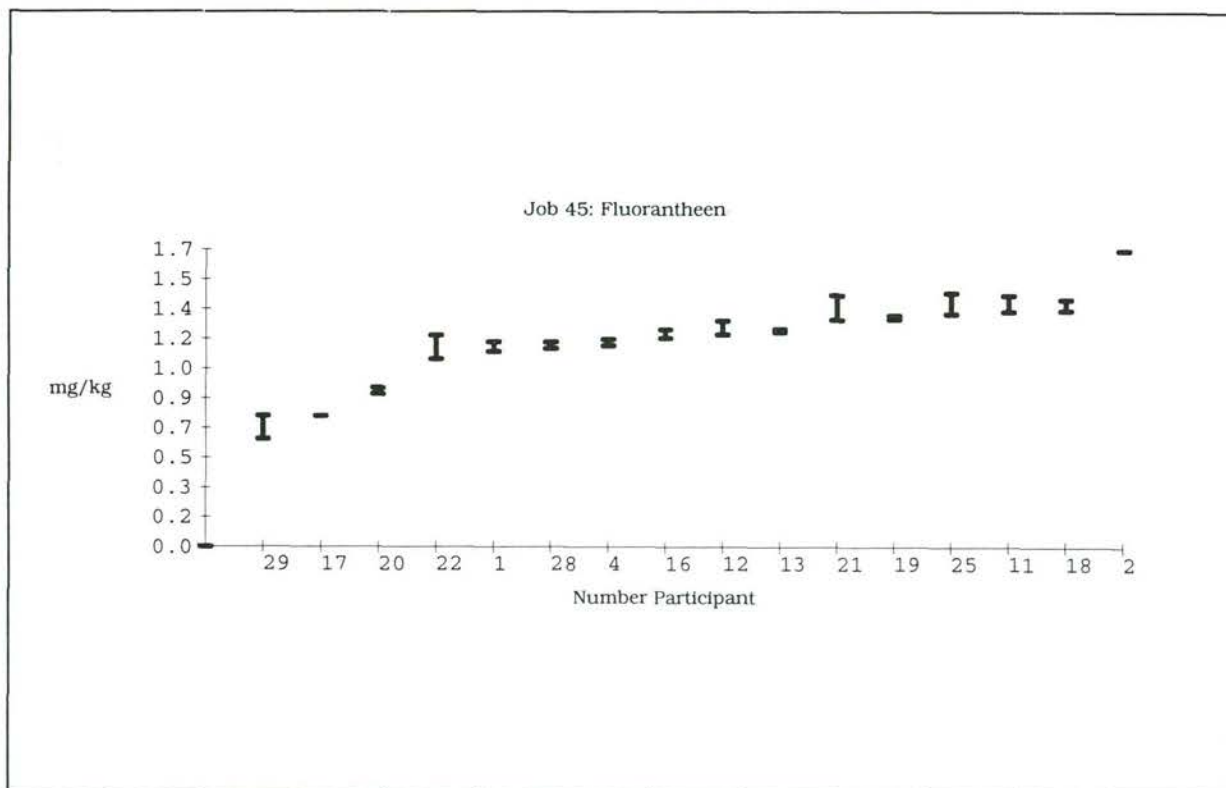
General Mean = .10406
Between lab standard deviation SL = .03637
Coefficient of variation = 35 %
Number of laboratories = 14

A: Number of laboratories with	Z	-scores between 0 and 1	; 9
B: Number of laboratories with	Z	-scores between 1 and 2	; 5
C: Number of laboratories with	Z	-scores between 2 and 3	; 0
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 45 : 99093, 99097

Fluorantheen, Flu in mg/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	1.15800	1.08000	1.11900	4.9 %	*
2 *	1.70000	1.70000	1.70000	.0 %	*
3 *	2.67000	2.27000	.00000	0 %	* - N.V.Manueel verwijderd
4 *	1.12400	1.17700	1.15050	3.3 %	*
5 *			.00000	0 %	* - N.V.
6 *			.00000	0 %	* - N.V.
7 *			.00000	0 %	* - N.V.
8 *			.00000	0 %	* - N.V.
9 *			.00000	0 %	* - N.V.
10 *			.00000	0 %	* - N.V.
11 *	1.28400	1.41400	1.34900	6.8 %	*
12 *	1.27000	1.15700	1.21350	6.6 %	*
13 *	1.21400	1.24200	1.22800	1.6 %	*
14 *			.00000	0 %	* - N.V.
15 *			.00000	0 %	* - N.V.
16 *	1.23000	1.16000	1.19500	4.1 %	*
17 *	.75000	.75000	.75000	.0 %	*
18 *	1.40000	1.31000	1.35500	4.7 %	*
19 *	1.32000	1.29000	1.30500	1.6 %	*
20 *	.85000	.90000	.87500	4.0 %	*
21 *	1.20000	1.40000	1.30000	10.9 %	*
22 *	1.17000	.98000	1.07500	12.5 %	*
23 *			.00000	0 %	* - N.V.
24 *			.00000	0 %	* - N.V.
25 *	1.25000	1.42000	1.33500	9.0 %	*
26 *			.00000	0 %	* - N.V.
27 *			.00000	0 %	* - N.V.
28 *	1.16000	1.11000	1.13500	3.1 %	*
29 *	.52000	.71000	.61500	21.8 %	*



Analysis

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

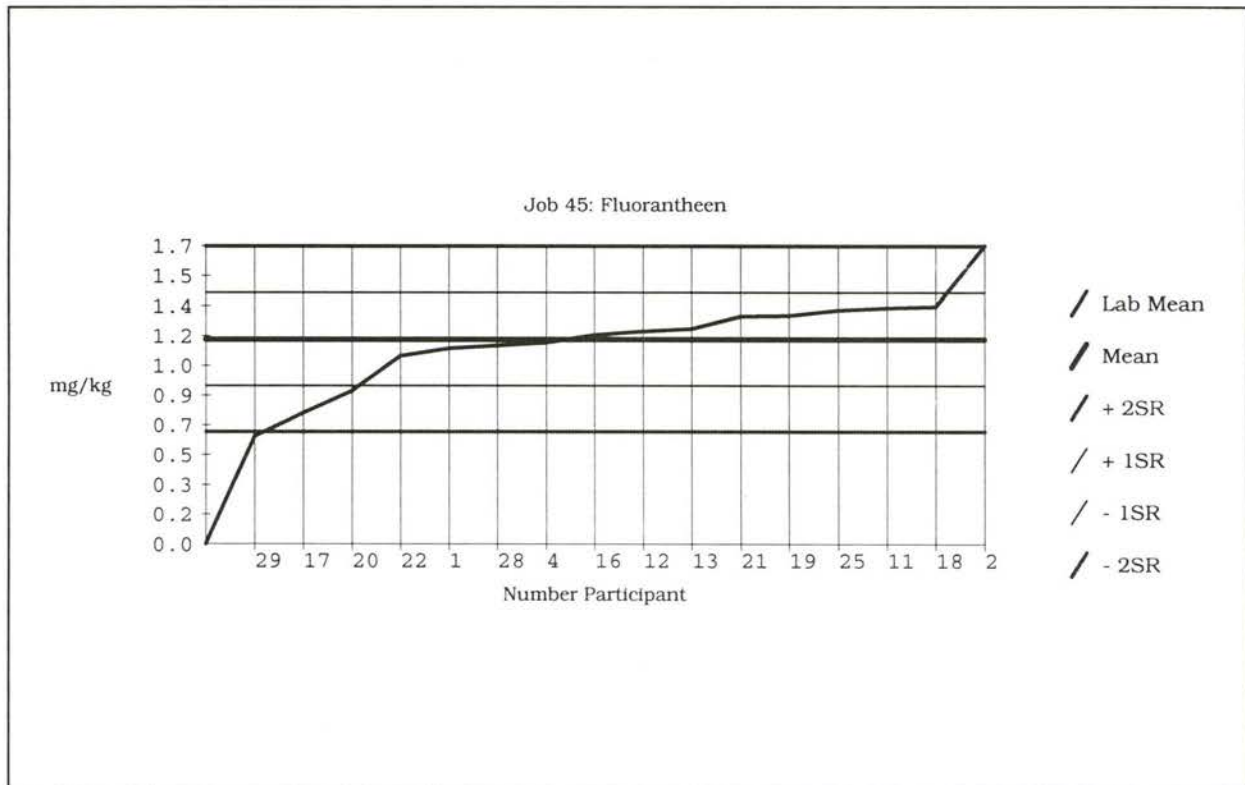
16 laboratory observations

Maximum absolute difference from Normal distribution: 0.17326. Critical value: 0.09200. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 1
2. General Mean = 1.16875
3. Repeatability
 - 3.1 Standard deviation $S_r = .07893$
 - 3.2 Coefficient of variation = 7 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .26417$
 - 4.2 Coefficient of variation = 23 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	G *	? *	? *	? *	? *	*
24 *	.00000 *	G *	LE *	Z *	LMC *	A-O-NEN 5771	*
8 *	.00000 *	G *	? *	? *	? *	? *	*
14 *	.00000 *	G *	- *	- *	- *	- *	*
9 *	.00000 *	G *	- *	- *	- *	- *	*
15 *	.00000 *	G *	? *	? *	? *	? *	*
26 *	.00000 *	G *	- *	- *	- *	- *	*
3 *	.00000 *	G *	- *	- *	LMC *	NEN 5731	*
10 *	.00000 *	G *	- *	- *	- *	- *	*
27 *	.00000 *	G *	- *	- *	- *	- *	*
5 *	.00000 *	G *	- *	- *	- *	- *	*
23 *	.00000 *	G *	- *	- *	- *	- *	*
6 *	.00000 *	G *	- *	- *	- *	- *	*
29 *	.61500 *	C *	LD *	- *	LMC *	HUIS	*
17 *	.75000 *	B *	LE *	SC *	LMC *	HUIS	*
20 *	.87500 *	B *	LE *	- *	LMC *	2e O-NEN 5771	*
22 *	1.07500 *	A *	- *	- *	- *	- *	*
1 *	1.11900 *	A *	- *	- *	- *	- *	*
28 *	1.13500 *	A *	- *	- *	- *	- *	*
4 *	1.15050 *	A *	- *	- *	- *	- *	*
16 *	1.19500 *	A *	LE *	C *	LMC *	C-O-NEN 5771	*
12 *	1.21350 *	A *	Z *	- *	LUF *	HUIS	*
13 *	1.22800 *	A *	LA *	- *	LUF *	HUIS	*
21 *	1.30000 *	A *	- *	- *	LMC *	NEN 5771	*
19 *	1.30500 *	A *	LE *	C *	LMC *	VPR C85-11	*
25 *	1.33500 *	A *	LH *	- *	LMC *	G-NEN 5771	*
11 *	1.34900 *	A *	LE *	- *	LMC *	A-NEN 5771	*
18 *	1.35500 *	A *	LA *	C *	LMC *	HUIS	*
2 *	1.70000 *	C *	- *	- *	- *	- *	*

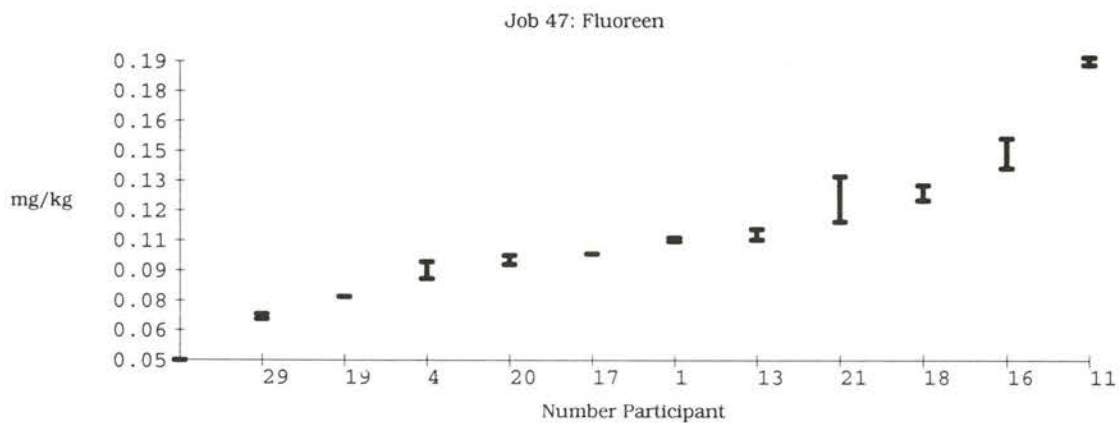
General Mean = 1.16875
Between lab standard deviation SL = .25210
Coefficient of variation = 22 %
Number of laboratories = 16

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

Job 47 : 99093, 99097

Fluoreen, Flur in mg/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	.10700 *	.10480 *	.10590 *	1.5 % *	
2 *			.00000 *	0 % *	- N.V.
3 *	.82000 *	.53000 *	.00000 *	0 % *	- N.V. Manueel verwijderd
4 *	.08280 *	.09390 *	.08835 *	8.9 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *	.18600 *	.19100 *	.18850 *	1.9 % *	
12 *			.00000 *	0 % *	- N.V.
13 *	.10300 *	.11000 *	.10650 *	4.6 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	.15000 *	.13000 *	.14000 *	10.1 % *	
17 *	.10000 *	.10000 *	.10000 *	.0 % *	
18 *	.13000 *	.12000 *	.12500 *	5.7 % *	
19 *	.08000 *	.08000 *	.08000 *	.0 % *	
20 *	.09200 *	.09800 *	.09500 *	4.5 % *	
21 *	.10000 *	.13000 *	.11500 *	18.4 % *	
22 *	.12000 *	.47000 *	.29500 *	83.9 % *	
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	.05000 *	.13000 *	.00000 *	0 % *	< N.V.
26 *			.00000 *	0 % *	- N.V.
27 *			.00000 *	0 % *	- N.V.
28 *	.15000 *	.15000 *	.00000 *	0 % *	< N.V.
29 *	.06800 *	.07100 *	.06950 *	3.1 % *	



Analysis

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

12 laboratory observations

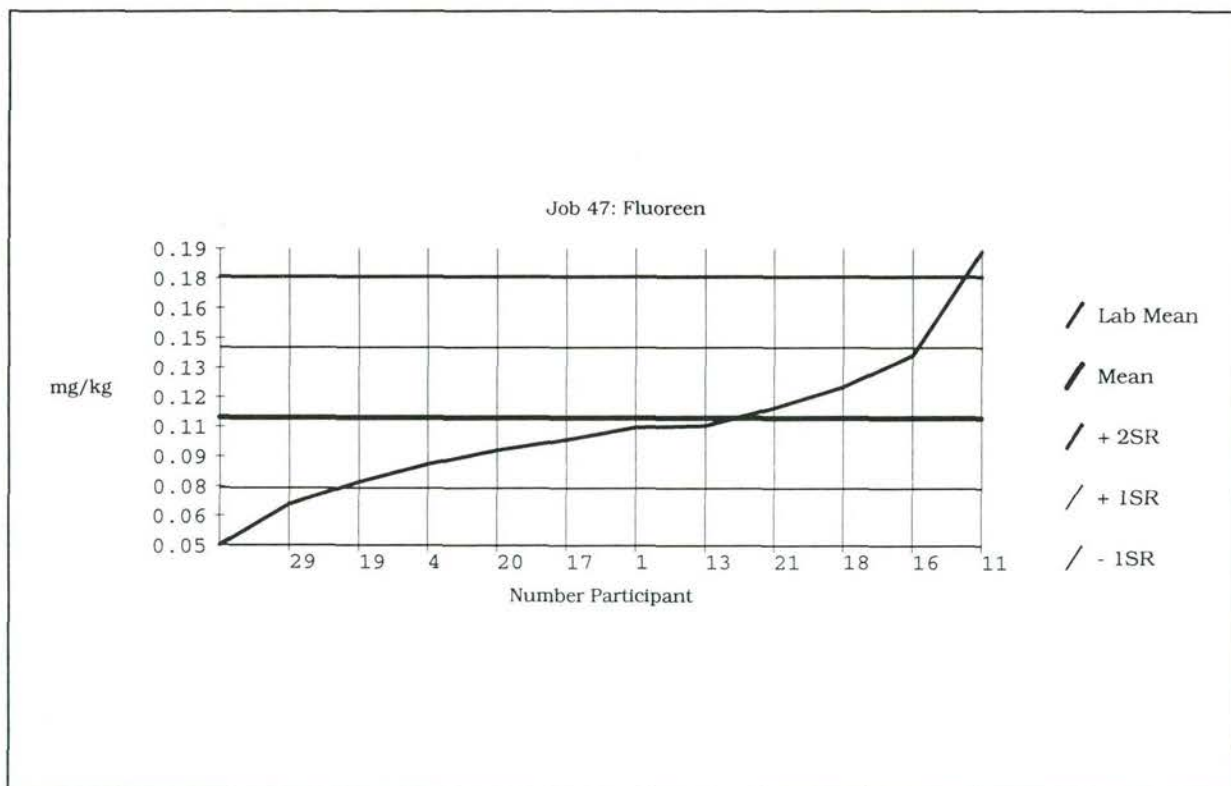
Maximum absolute difference from Normal distribution: 0.25399. Critical value: 0.44900. KS-test passed

COCHRAN; 1 % ; replicas: 2

Cyc	Lab	Average	Variance	Result	Value
1	22	.29500	.24749	.98673	.65270

Summary

1. Eliminations due to
 - 1.1 Repeatability = 1
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 1
2. General Mean = .11034
3. Repeatability
 - 3.1 Standard deviation $S_r = .00865$
 - 3.2 Coefficient of variation = 8 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .03324$
 - 4.2 Coefficient of variation = 30 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	G *	? *	? *	? *	? *	*
24 *	.00000 *	G *	LE *	Z *	LMC *	A-O-NEN 5771	*
8 *	.00000 *	G *	? *	? *	? *	? *	*
14 *	.00000 *	G *	- *	- *	- *	- *	*
25 *	.00000 *	G *	LH *	- *	LMC *	G-NEN 5771	*
2 *	.00000 *	G *	- *	- *	- *	- *	*
9 *	.00000 *	G *	- *	- *	- *	- *	*
15 *	.00000 *	G *	? *	? *	? *	? *	*
26 *	.00000 *	G *	- *	- *	- *	- *	*
3 *	.00000 *	G *	- *	- *	LMC *	NEN 5731	*
10 *	.00000 *	G *	- *	- *	- *	- *	*
27 *	.00000 *	G *	- *	- *	- *	- *	*
28 *	.00000 *	G *	- *	- *	- *	- *	*
5 *	.00000 *	G *	- *	- *	- *	- *	*
12 *	.00000 *	G *	- *	- *	- *	- *	*
23 *	.00000 *	G *	- *	- *	- *	- *	*
6 *	.00000 *	G *	- *	- *	- *	- *	*
29 *	.06950 *	B *	LD *	- *	LMC *	HUIS	*
19 *	.08000 *	A *	LE *	C *	LMC *	VPR C85-11	*
4 *	.08835 *	A *	- *	- *	- *	- *	*
20 *	.09500 *	A *	LE *	- *	LMC *	2e O-NEN 5771	*
17 *	.10000 *	A *	LE *	SC *	LMC *	HUIS	*
1 *	.10590 *	A *	- *	- *	- *	- *	*
13 *	.10650 *	A *	LA *	- *	LUF *	HUIS	*
21 *	.11500 *	A *	- *	- *	LMC *	NEN 5771	*
18 *	.12500 *	A *	LA *	C *	LMC *	HUIS	*
16 *	.14000 *	A *	LE *	C *	LMC *	C-O-NEN 5771	*
11 *	.18850 *	C *	LE *	- *	LMC *	A-NEN 5771	*
22 *	.29500 *	W *	- *	- *	- *	- *	*

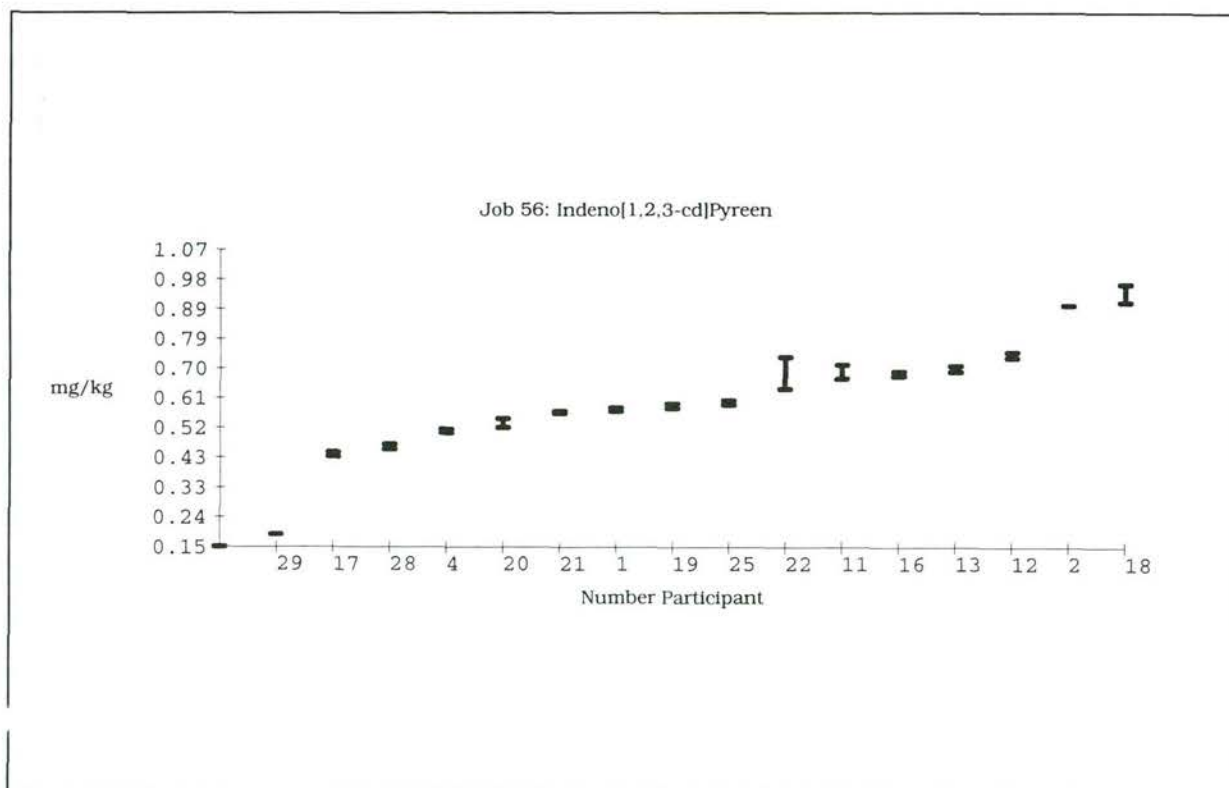
General Mean = .11034
Between lab standard deviation SL = .03209
Coefficient of variation = 29 %
Number of laboratories = 11

A: Number of laboratories with	Z	-scores between 0 and 1	; 9
B: Number of laboratories with	Z	-scores between 1 and 2	; 1
C: Number of laboratories with	Z	-scores between 2 and 3	; 1
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 56 : 99093, 99097

Indeno[1,2,3-cd]Pyreen, InP in mg/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	.57790 *	.56110 *	.56950 *	2.1 % *	
2 *	.90000 *	.90000 *	.90000 *	.0 % *	
3 *	.87000 *	.89000 *	.00000 *	0 % *	- N.V.Manueel verwijderd
4 *	.49620 *	.51240 *	.50430 *	2.3 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *	.64100 *	.70300 *	.67200 *	6.5 % *	
12 *	.75000 *	.72500 *	.73750 *	2.4 % *	
13 *	.68000 *	.70700 *	.69350 *	2.8 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	.69000 *	.67000 *	.68000 *	2.1 % *	
17 *	.44000 *	.42000 *	.43000 *	3.3 % *	
18 *	.95000 *	.87000 *	.91000 *	6.2 % *	
19 *	.57000 *	.59000 *	.58000 *	2.4 % *	
20 *	.50000 *	.54000 *	.52000 *	5.4 % *	
21 *	.57000 *	.56000 *	.56500 *	1.3 % *	
22 *	.71000 *	.57000 *	.64000 *	15.5 % *	
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	.58000 *	.60000 *	.59000 *	2.4 % *	
26 *			.00000 *	0 % *	- N.V.
27 *			.00000 *	0 % *	- N.V.
28 *	.44200 *	.46400 *	.45300 *	3.4 % *	
29 *	.19000 *	.19000 *	.19000 *	.0 % *	



Analysis

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

16 laboratory observations

Maximum absolute difference from Normal distribution: 0.11403. Critical value: 0.39200. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 1
2. General Mean = .60218
3. Repeatability
 - 3.1 Standard deviation $S_r = .03332$
 - 3.2 Coefficient of variation = 6 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .17739$
 - 4.2 Coefficient of variation = 29 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	G *	? *	? *	? *	? *	*
24 *	.00000 *	G *	LE *	Z *	LMC *	A-O-NEN 5771	*
8 *	.00000 *	G *	? *	? *	? *	? *	*
14 *	.00000 *	G *	- *	- *	- *	- *	*
9 *	.00000 *	G *	- *	- *	- *	- *	*
15 *	.00000 *	G *	? *	? *	? *	? *	*
26 *	.00000 *	G *	- *	- *	- *	- *	*
3 *	.00000 *	G *	- *	- *	LMC *	NEN 5731	*
10 *	.00000 *	G *	- *	- *	- *	- *	*
27 *	.00000 *	G *	- *	- *	- *	- *	*
5 *	.00000 *	G *	- *	- *	- *	- *	*
23 *	.00000 *	G *	- *	- *	- *	- *	*
6 *	.00000 *	G *	- *	- *	- *	- *	*
29 *	.19000 *	C *	LD *	- *	LMC *	HUIS	*
17 *	.43000 *	A *	LE *	SC *	LMC *	HUIS	*
28 *	.45300 *	A *	- *	- *	- *	- *	*
4 *	.50430 *	A *	- *	- *	- *	- *	*
20 *	.52000 *	A *	LE *	- *	LMC *	2e O-NEN 5771	*
21 *	.56500 *	A *	- *	- *	LMC *	NEN 5771	*
1 *	.56950 *	A *	- *	- *	- *	- *	*
19 *	.58000 *	A *	LE *	C *	LMC *	VPR C85-11	*
25 *	.59000 *	A *	LH *	- *	LMC *	G-NEN 5771	*
22 *	.64000 *	A *	- *	- *	- *	- *	*
11 *	.67200 *	A *	LE *	- *	LMC *	A-NEN 5771	*
16 *	.68000 *	A *	LE *	C *	LMC *	C-O-NEN 5771	*
13 *	.69350 *	A *	LA *	- *	LUF *	HUIS	*
12 *	.73750 *	A *	Z *	- *	LUF *	HUIS	*
2 *	.90000 *	B *	- *	- *	- *	- *	*
18 *	.91000 *	B *	LA *	C *	LMC *	HUIS	*

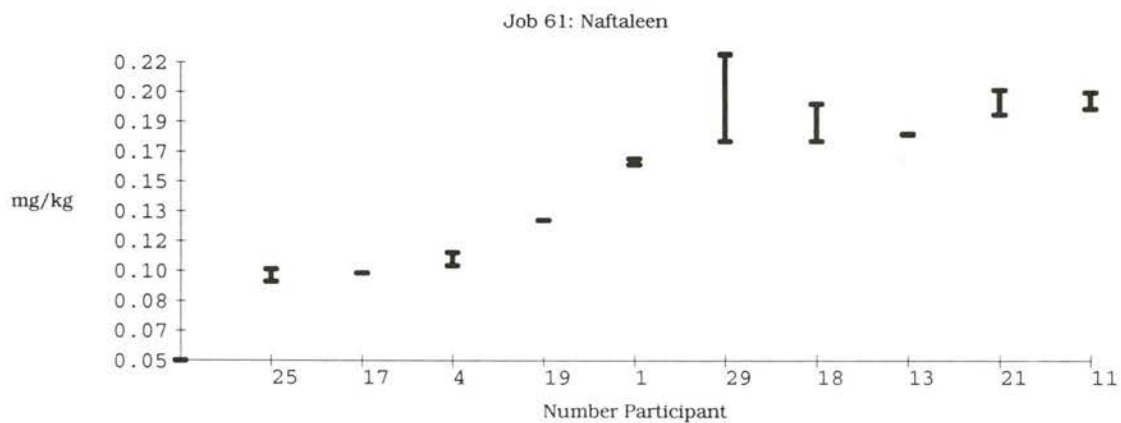
General Mean = .60218
Between lab standard deviation SL = .17423
Coefficient of variation = 29 %
Number of laboratories = 16

A: Number of laboratories with	Z	-scores between 0 and 1	; 13
B: Number of laboratories with	Z	-scores between 1 and 2	; 2
C: Number of laboratories with	Z	-scores between 2 and 3	; 1
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 61 : 99093, 99097

Naftaleen, Naf in mg/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	.15910 *	.16410 *	.16160 *	2.2 % *	
2 *	.70000 *	.60000 *	.65000 *	10.9 % *	
3 *	1.23000 *	.97000 *	.00000 *	0 % *	- N.V.Manueel verwijderd
4 *	.09870 *	.10950 *	.10410 *	7.3 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *	.18700 *	.20000 *	.19350 *	4.8 % *	
12 *			.00000 *	0 % *	- N.V.
13 *	.17800 *	.17900 *	.17850 *	.4 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	.44000 *	.39000 *	.41500 *	8.5 % *	
17 *	.10000 *	.10000 *	.10000 *	.0 % *	
18 *	.19000 *	.16000 *	.17500 *	12.1 % *	
19 *	.13000 *	.13000 *	.13000 *	.0 % *	
20 *	.18000 *	.40000 *	.29000 *	53.6 % *	
21 *	.20000 *	.18000 *	.19000 *	7.4 % *	
22 *	.30000 *	.26000 *	.28000 *	10.1 % *	
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	.10000 *	.09000 *	.09500 *	7.4 % *	
26 *			.00000 *	0 % *	- N.V.
27 *			.00000 *	0 % *	- N.V.
28 *	.15000 *	.15200 *	.00000 *	0 % *	< N.V.
29 *	.21000 *	.14000 *	.17500 *	28.3 % *	



Analysis

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

14 laboratory observations

Maximum absolute difference from Normal distribution: 0.29355. Critical value: 0.41800. KS-test passed

COCHRAN; 1 % ; replicas: 2

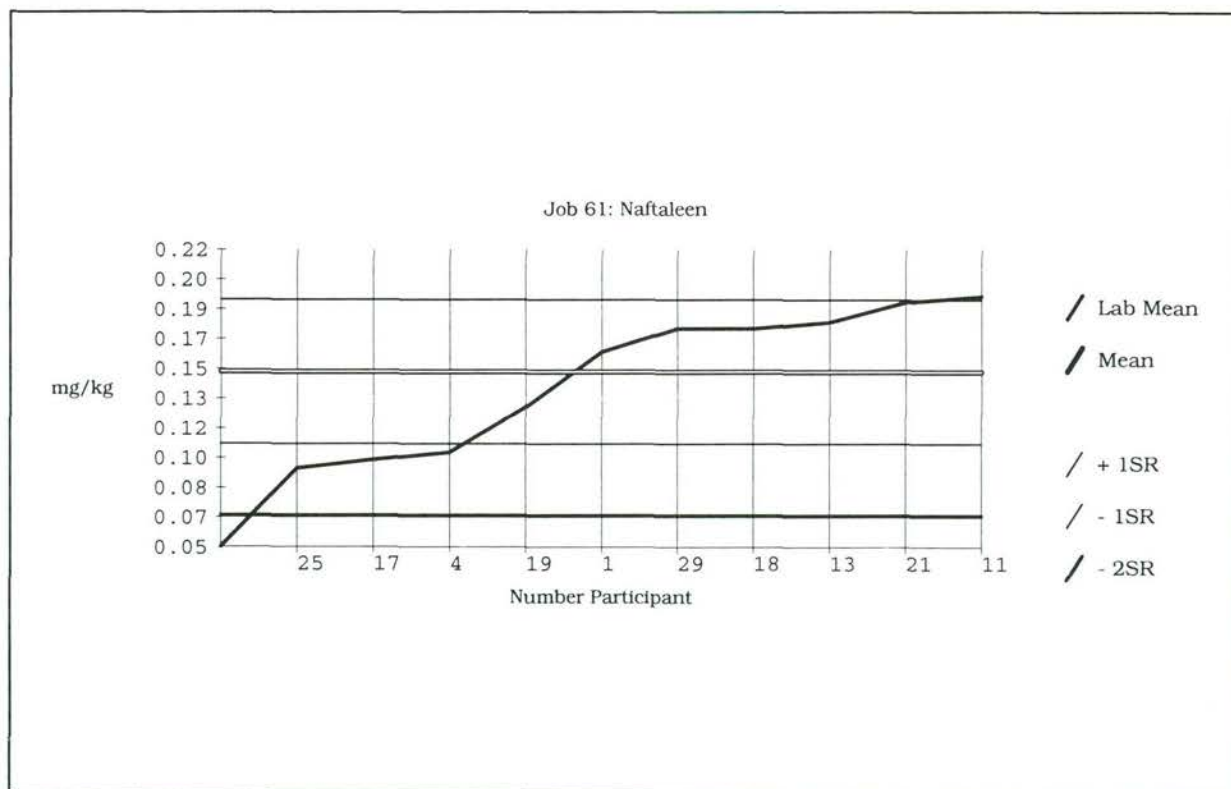
Cyc	Lab	Average	Variance	Result	Value
1	20	.29000	.15556	.70032	.59839

GRUBBS; 1 % ; replicas: 2

Cyc	Lab	D/S	Average	Variance	Result	Value
1	2	S	.65000	.07071	2.77762	2.69900
2	22	D	.28000	.02828	.15651	.17380
2	16	D	.41500	.03536	.15651	.17380

Summary

1. Eliminations due to
 - 1.1 Repeatability = 1
 - 1.2 Reproducibility = 3
 - 1.3 Manual rejected = 1
2. General Mean = .15027
3. Repeatability
 - 3.1 Standard deviation $S_r = .01818$
 - 3.2 Coefficient of variation = 12 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .04111$
 - 4.2 Coefficient of variation = 27 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	G *	? *	? *	? *	? *	*
24 *	.00000 *	G *	LE *	Z *	LMC *	A-O-NEN 5771	*
8 *	.00000 *	G *	? *	? *	? *	? *	*
14 *	.00000 *	G *	- *	- *	- *	- *	*
9 *	.00000 *	G *	- *	- *	- *	- *	*
15 *	.00000 *	G *	? *	? *	? *	? *	*
26 *	.00000 *	G *	- *	- *	- *	- *	*
3 *	.00000 *	G *	- *	- *	LMC *	NEN 5731	*
10 *	.00000 *	G *	- *	- *	- *	- *	*
27 *	.00000 *	G *	- *	- *	- *	- *	*
28 *	.00000 *	G *	- *	- *	- *	- *	*
5 *	.00000 *	G *	- *	- *	- *	- *	*
12 *	.00000 *	G *	- *	- *	- *	- *	*
23 *	.00000 *	G *	- *	- *	- *	- *	*
6 *	.00000 *	G *	- *	- *	- *	- *	*
25 *	.09500 *	B *	LH *	- *	LMC *	G-NEN 5771	*
17 *	.10000 *	B *	LE *	SC *	LMC *	HUIS	*
4 *	.10410 *	B *	- *	- *	- *	- *	*
19 *	.13000 *	A *	LE *	C *	LMC *	VPR C85-11	*
1 *	.16160 *	A *	- *	- *	- *	- *	*
29 *	.17500 *	A *	LD *	- *	LMC *	HUIS	*
18 *	.17500 *	A *	LA *	C *	LMC *	HUIS	*
13 *	.17850 *	A *	LA *	- *	LUF *	HUIS	*
21 *	.19000 *	B *	- *	- *	LMC *	NEN 5771	*
11 *	.19350 *	B *	LE *	- *	LMC *	A-NEN 5771	*
22 *	.28000 *	R *	- *	- *	- *	- *	*
20 *	.29000 *	W *	LE *	- *	LMC *	2e O-NEN 5771	*
16 *	.41500 *	R *	LE *	C *	LMC *	C-O-NEN 5771	*
2 *	.65000 *	R *	- *	- *	- *	- *	*

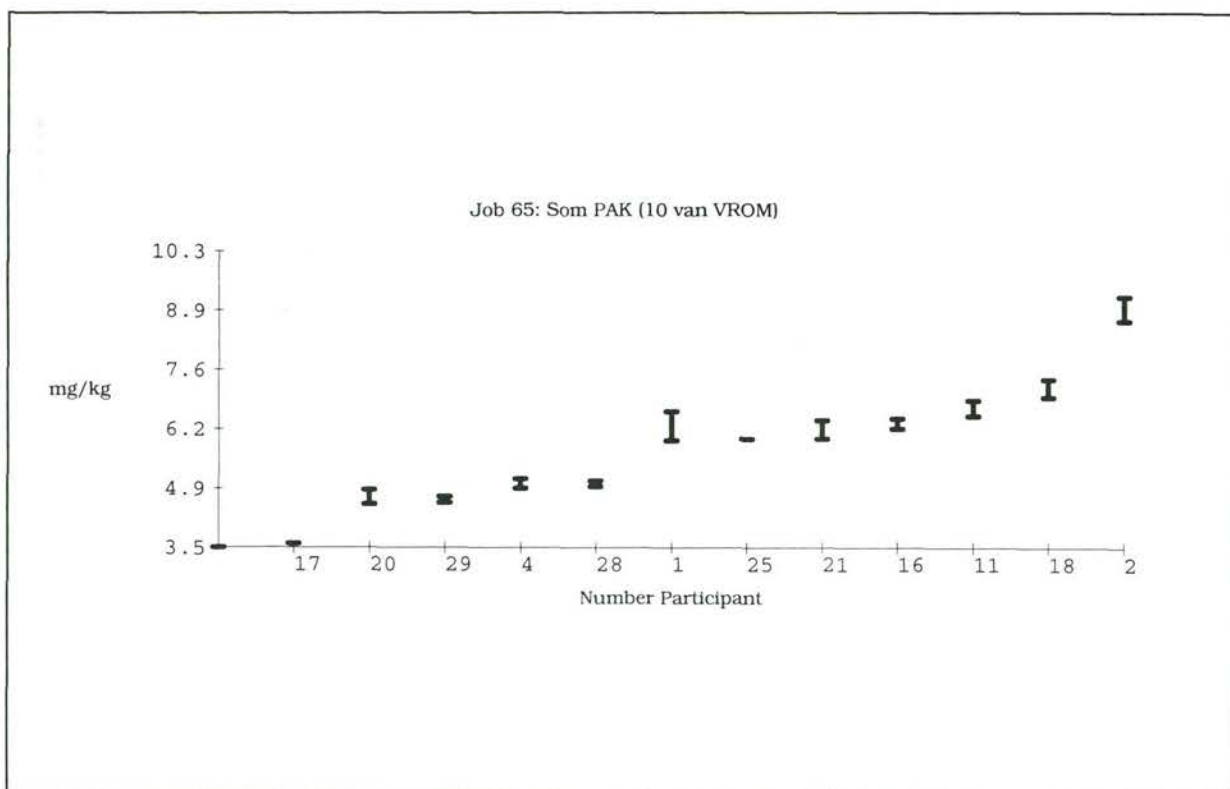
General Mean = .15027
Between lab standard deviation SL = .03687
Coefficient of variation = 25 %
Number of laboratories = 10

A: Number of laboratories with Z-scores between 0 and 1 ; 5
B: Number of laboratories with Z-scores between 1 and 2 ; 5
C: Number of laboratories with Z-scores between 2 and 3 ; 0
D: Number of laboratories with Z-scores larger than 3 ; 0

Job 65 : 99093, 99097

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

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	6.43500 *	5.50500 *	5.97000 *	11.0 % *	
2 *	9.10000 *	8.30000 *	8.70000 *	6.5 % *	
3 *	12.40000 *	10.92000 *	.00000 *	0 % *	- N.V.Manueel verwijderd
4 *	4.70700 *	5.01700 *	4.86200 *	4.5 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *	6.27000 *	6.78000 *	6.52500 *	5.5 % *	
12 *			.00000 *	0 % *	- N.V.
13 *			.00000 *	0 % *	- N.V.
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	6.40000 *	6.07000 *	6.23500 *	3.7 % *	
17 *	3.60000 *	3.60000 *	3.60000 *	.0 % *	
18 *	7.25000 *	6.67000 *	6.96000 *	5.9 % *	
19 *			.00000 *	0 % *	- N.V.
20 *	4.26000 *	4.73000 *	4.49500 *	7.4 % *	
21 *	5.70000 *	6.30000 *	6.00000 *	7.1 % *	
22 *			.00000 *	0 % *	- N.V.
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	6.00000 *	6.00000 *	6.00000 *	.0 % *	
26 *			.00000 *	0 % *	- N.V.
27 *			.00000 *	0 % *	- N.V.
28 *	4.80000 *	5.00000 *	4.90000 *	2.9 % *	
29 *	4.44000 *	4.63000 *	4.53500 *	3.0 % *	



Analysis

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

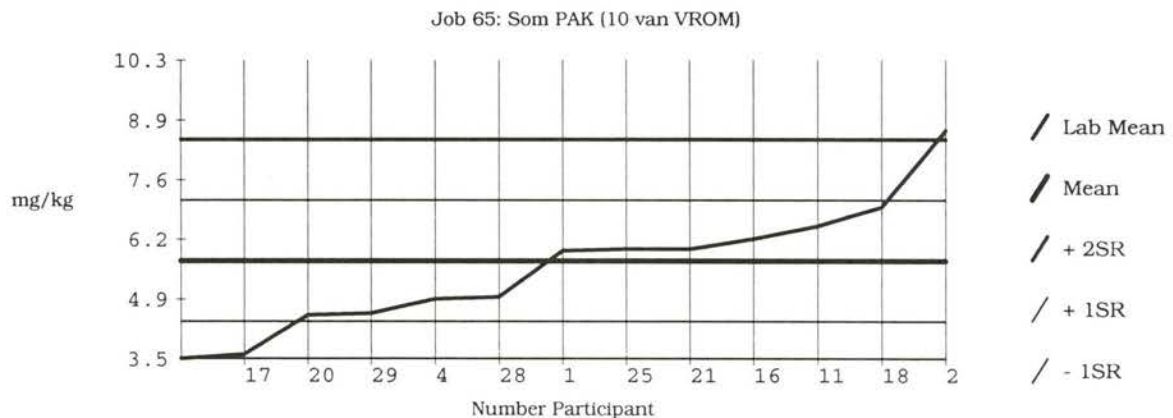
12 laboratory observations

Maximum absolute difference from Normal distribution: 0.14574. Critical value: 0.44900. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 1
2. General Mean = 5.73183
3. Repeatability
 - 3.1 Standard deviation $S_r = .35139$
 - 3.2 Coefficient of variation = 6 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = 1.38288$
 - 4.2 Coefficient of variation = 24 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.000000 *	G *	? *	? *	? *	? *	*
13 *	.000000 *	G *	- *	- *	- *	- *	*
19 *	.000000 *	G *	- *	- *	- *	- *	*
24 *	.000000 *	G *	LE *	Z *	LMC *	A-O-NEN 5771	*
8 *	.000000 *	G *	? *	? *	? *	? *	*
14 *	.000000 *	G *	- *	- *	- *	- *	*
9 *	.000000 *	G *	- *	- *	- *	- *	*
15 *	.000000 *	G *	? *	? *	? *	? *	*
26 *	.000000 *	G *	- *	- *	- *	- *	*
3 *	.000000 *	G *	- *	- *	LMC *	NEN 5731	*
10 *	.000000 *	G *	- *	- *	- *	- *	*
27 *	.000000 *	G *	- *	- *	- *	- *	*
22 *	.000000 *	G *	- *	- *	- *	- *	*
5 *	.000000 *	G *	- *	- *	- *	- *	*
12 *	.000000 *	G *	- *	- *	- *	- *	*
23 *	.000000 *	G *	- *	- *	- *	- *	*
6 *	.000000 *	G *	- *	- *	- *	- *	*
17 *	3.600000 *	B *	LE *	SC *	LMC *	HUIS	*
20 *	4.495000 *	A *	LE *	- *	LMC *	2e O-NEN 5771	*
29 *	4.535000 *	A *	LD *	- *	LMC *	HUIS	*
4 *	4.862000 *	A *	- *	- *	- *	- *	*
28 *	4.900000 *	A *	- *	- *	- *	- *	*
1 *	5.970000 *	A *	- *	- *	- *	- *	*
25 *	6.000000 *	A *	LH *	- *	LMC *	G-NEN 5771	*
21 *	6.000000 *	A *	- *	- *	LMC *	NEN 5771	*
16 *	6.235000 *	A *	LE *	C *	LMC *	C-O-NEN 5771	*
11 *	6.525000 *	A *	LE *	- *	LMC *	A-NEN 5771	*
18 *	6.960000 *	A *	LA *	C *	LMC *	HUIS	*
2 *	8.700000 *	C *	- *	- *	- *	- *	*

General Mean = 5.73183

Between lab standard deviation SL = 1.33749

Coefficient of variation = 23 %

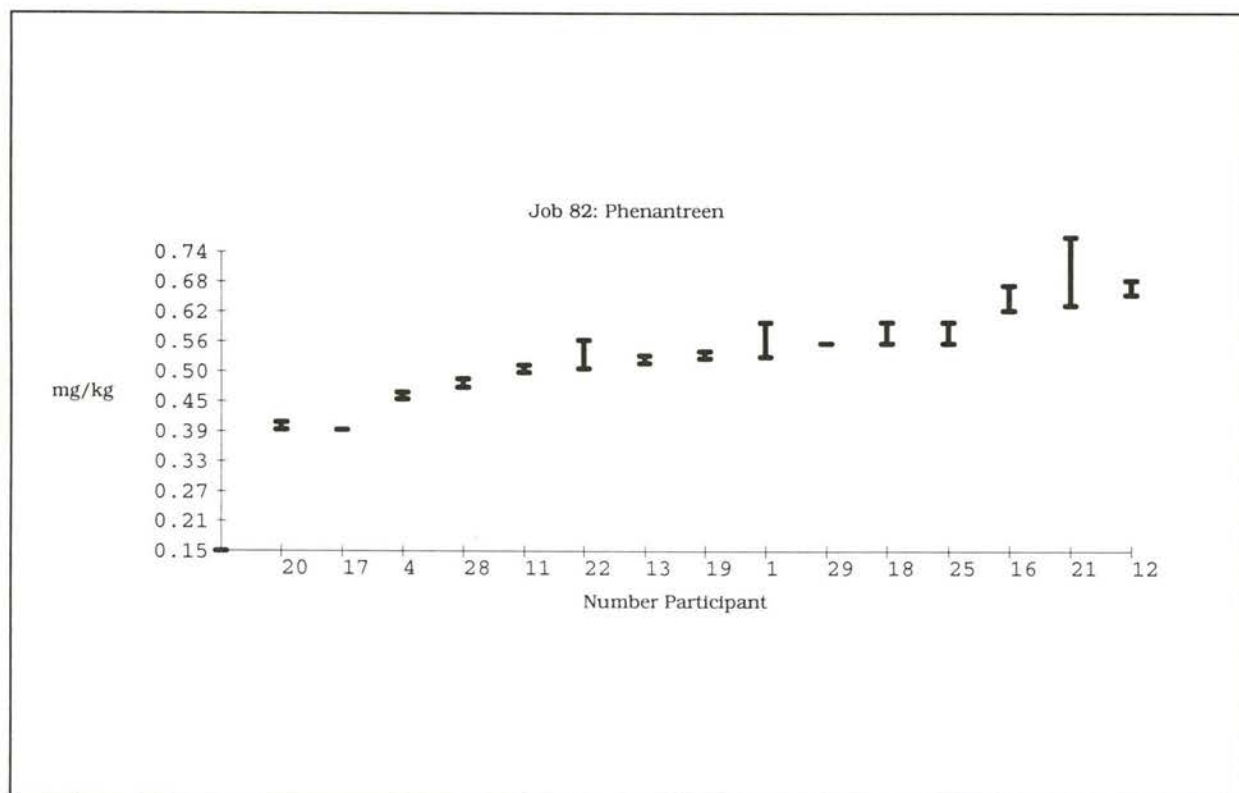
Number of laboratories = 12

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

Job 82 : 99093, 99097

Phenantreen, Phen in mg/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	.48580 *	.58150 *	.53365 *	12.7 % *	
2 *	1.00000 *	.80000 *	.90000 *	15.7 % *	
3 *	2.89000 *	2.04000 *	.00000 *	0 % *	- N.V.Manueel verwijderd
4 *	.44160 *	.45940 *	.45050 *	2.8 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *	.49200 *	.51300 *	.50250 *	3.0 % *	
12 *	.67600 *	.63600 *	.65600 *	4.3 % *	
13 *	.51000 *	.53200 *	.52100 *	3.0 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	.66000 *	.59000 *	.62500 *	7.9 % *	
17 *	.39000 *	.39000 *	.39000 *	.0 % *	
18 *	.59000 *	.53000 *	.56000 *	7.6 % *	
19 *	.54000 *	.52000 *	.53000 *	2.7 % *	
20 *	.38000 *	.40000 *	.39000 *	3.6 % *	
21 *	.54000 *	.73000 *	.63500 *	21.2 % *	
22 *	.55000 *	.47000 *	.51000 *	11.1 % *	
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	.53000 *	.59000 *	.56000 *	7.6 % *	
26 *			.00000 *	0 % *	- N.V.
27 *			.00000 *	0 % *	- N.V.
28 *	.48500 *	.46200 *	.47350 *	3.4 % *	
29 *	.56000 *	.56000 *	.56000 *	.0 % *	



Analysis

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

16 laboratory observations

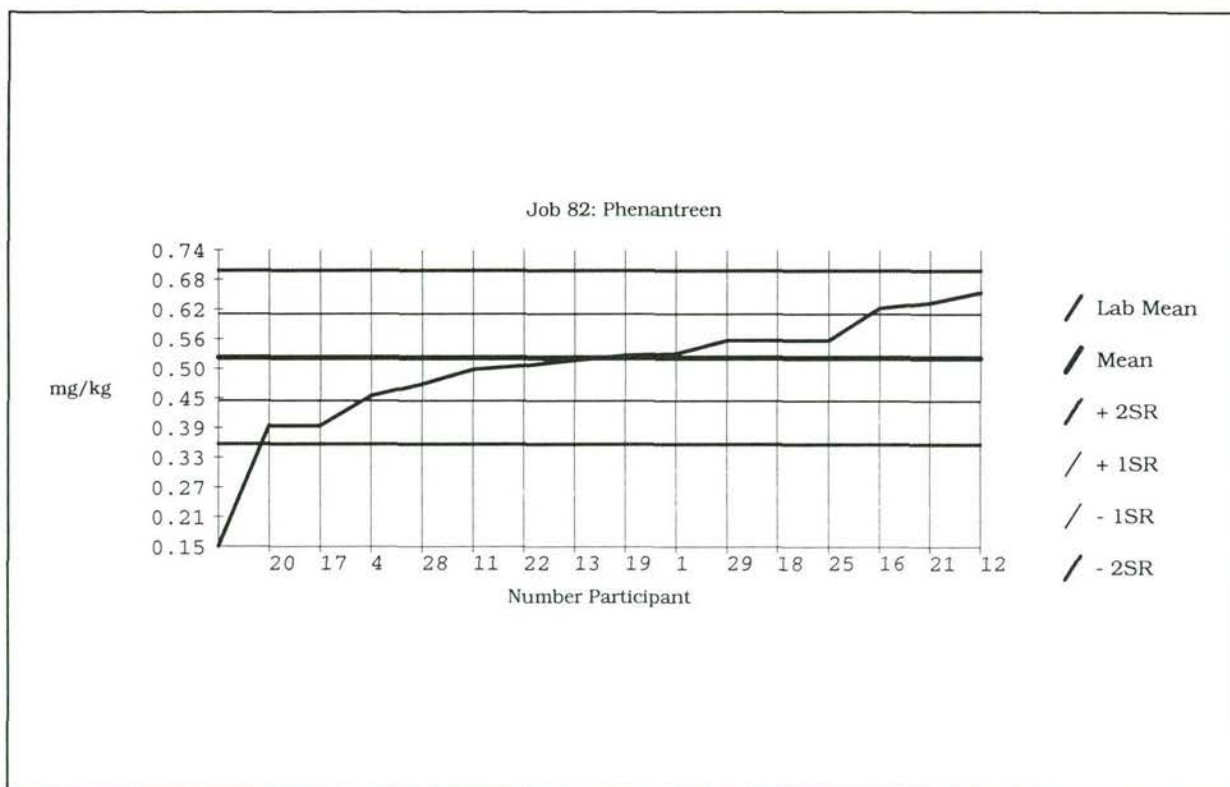
Maximum absolute difference from Normal distribution: 0.21811. Critical value: 0.39200. KS-test passed

GRUBBS; 1 % ; replicas: 2

Cyc	Lab	D/S	Average	Variance	Result	Value
1	2	S	.90000	.14142	2.89676	2.85200

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 1
 - 1.3 Manual rejected = 1
2. General Mean = .52648
3. Repeatability
 - 3.1 Standard deviation $S_r = .04758$
 - 3.2 Coefficient of variation = 9 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .08629$
 - 4.2 Coefficient of variation = 16 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	G *	? *	? *	? *	? *	*
24 *	.00000 *	G *	LE *	Z *	LMC *	A-O-NEN 5771	*
8 *	.00000 *	G *	? *	? *	? *	? *	*
14 *	.00000 *	G *	- *	- *	- *	- *	*
9 *	.00000 *	G *	- *	- *	- *	- *	*
15 *	.00000 *	G *	? *	? *	? *	? *	*
26 *	.00000 *	G *	- *	- *	- *	- *	*
3 *	.00000 *	G *	- *	- *	LMC *	NEN 5731	*
10 *	.00000 *	G *	- *	- *	- *	- *	*
27 *	.00000 *	G *	- *	- *	- *	- *	*
5 *	.00000 *	G *	- *	- *	- *	- *	*
23 *	.00000 *	G *	- *	- *	- *	- *	*
6 *	.00000 *	G *	? *	? *	? *	? *	*
20 *	.39000 *	B *	LE *	- *	LMC *	2e O-NEN 5771	*
17 *	.39000 *	B *	LE *	SC *	LMC *	HUIS	*
4 *	.45050 *	A *	- *	- *	- *	- *	*
28 *	.47350 *	A *	- *	- *	- *	- *	*
11 *	.50250 *	A *	LE *	- *	LMC *	A-NEN 5771	*
22 *	.51000 *	A *	- *	- *	- *	- *	*
13 *	.52100 *	A *	LA *	- *	LUF *	HUIS	*
19 *	.53000 *	A *	LE *	C *	LMC *	VPR C85-11	*
1 *	.53365 *	A *	- *	- *	- *	- *	*
29 *	.56000 *	A *	LD *	- *	LMC *	HUIS	*
25 *	.56000 *	A *	LH *	- *	LMC *	G-NEN 5771	*
18 *	.56000 *	A *	LA *	C *	LMC *	HUIS	*
16 *	.62500 *	B *	LE *	C *	LMC *	C-O-NEN 5771	*
21 *	.63500 *	B *	- *	- *	LMC *	NEN 5771	*
12 *	.65600 *	B *	Z *	- *	LUF *	HUIS	*
2 *	.90000 *	R *	- *	- *	- *	- *	*

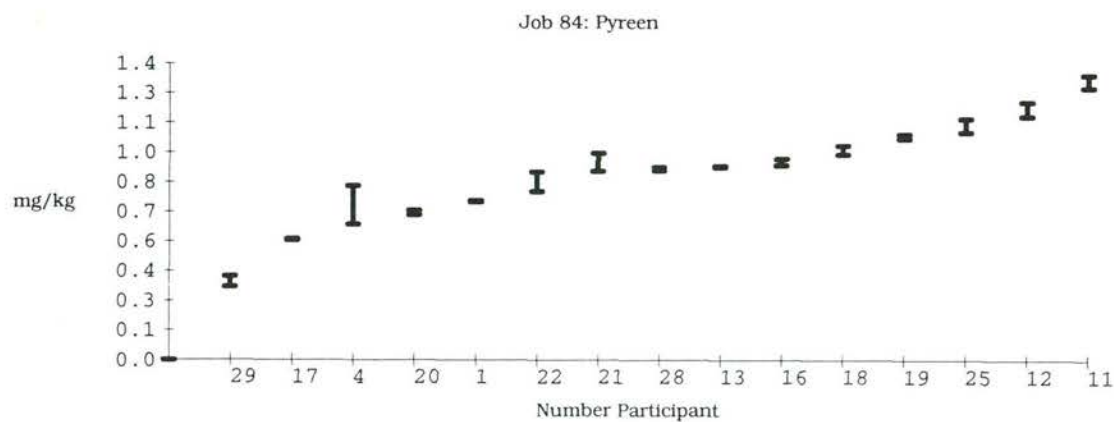
General Mean = .52648
Between lab standard deviation SL = .07199
Coefficient of variation = 14 %
Number of laboratories = 15

A: Number of laboratories with Z-scores between 0 and 1 ; 10
B: Number of laboratories with Z-scores between 1 and 2 ; 5
C: Number of laboratories with Z-scores between 2 and 3 ; 0
D: Number of laboratories with Z-scores larger than 3 ; 0

Job 84 : 99093, 99097

Pyreen, Pyr in mg/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *
1 *	.75100	.74190	.74645	.9 %
2 *			.00000	0 %
3 *	1.78000	1.58000	.00000	0 %
4 *	.76980	.51240	.64110	28.4 %
5 *			.00000	0 %
6 *			.00000	0 %
7 *			.00000	0 %
8 *			.00000	0 %
9 *			.00000	0 %
10 *			.00000	0 %
11 *	1.24300	1.32900	1.28600	4.7 %
12 *	1.19900	1.10200	1.15050	6.0 %
13 *	.90600	.91400	.91000	.6 %
14 *			.00000	0 %
15 *			.00000	0 %
16 *	.94000	.90000	.92000	3.1 %
17 *	.57000	.56000	.56500	1.3 %
18 *	1.00000	.94000	.97000	4.4 %
19 *	1.06000	1.03000	1.04500	2.0 %
20 *	.67000	.70000	.68500	3.1 %
21 *	.83000	.95000	.89000	9.5 %
22 *	.86000	.73000	.79500	11.6 %
23 *			.00000	0 %
24 *			.00000	0 %
25 *	1.03000	1.12000	1.07500	5.9 %
26 *			.00000	0 %
27 *			.00000	0 %
28 *	.90500	.88200	.89350	1.8 %
29 *	.31000	.38000	.34500	14.3 %



Analysis

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

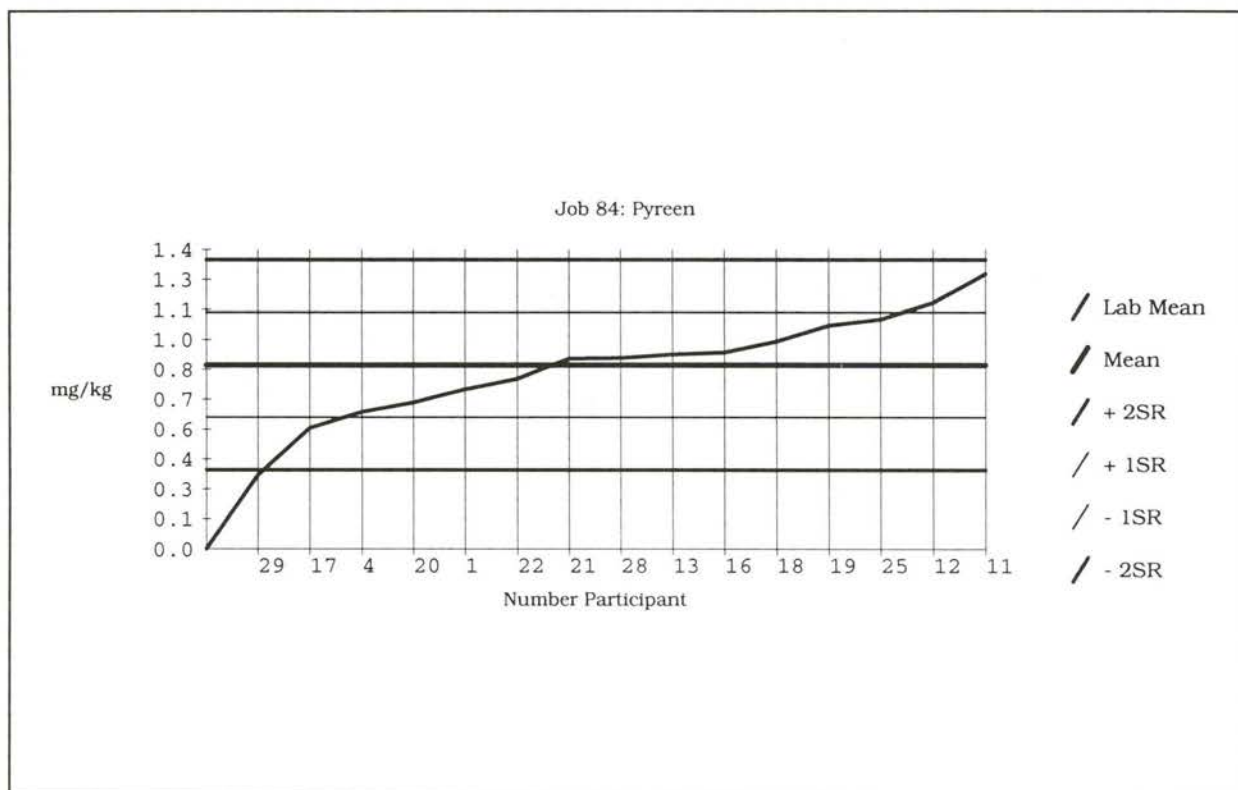
15 laboratory observations

Maximum absolute difference from Normal distribution: 0.08109. Critical value: 0.40400. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 1
2. General Mean = .86117
3. Repeatability
 - 3.1 Standard deviation $S_r = .06712$
 - 3.2 Coefficient of variation = 8 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .24582$
 - 4.2 Coefficient of variation = 29 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	G *	? *	? *	? *	? *	*
24 *	.00000 *	G *	LE *	Z *	LMC *	A-O-NEN 5771	*
8 *	.00000 *	G *	? *	? *	? *	? *	*
14 *	.00000 *	G *	- *	- *	- *	- *	*
2 *	.00000 *	G *	- *	- *	- *	- *	*
9 *	.00000 *	G *	- *	- *	- *	- *	*
15 *	.00000 *	G *	? *	? *	? *	? *	*
26 *	.00000 *	G *	- *	- *	- *	- *	*
3 *	.00000 *	G *	- *	- *	LMC *	NEN 5731	*
10 *	.00000 *	G *	- *	- *	- *	- *	*
27 *	.00000 *	G *	- *	- *	- *	- *	*
5 *	.00000 *	G *	- *	- *	- *	- *	*
23 *	.00000 *	G *	- *	- *	- *	- *	*
6 *	.00000 *	G *	? *	? *	? *	? *	*
29 *	.34500 *	C *	LD *	- *	LMC *	HUIS	*
17 *	.56500 *	B *	LE *	SC *	LMC *	HUIS	*
4 *	.64110 *	A *	- *	- *	- *	- *	*
20 *	.68500 *	A *	LE *	- *	LMC *	2e O-NEN 5771	*
1 *	.74645 *	A *	- *	- *	- *	- *	*
22 *	.79500 *	A *	- *	- *	- *	- *	*
21 *	.89000 *	A *	- *	- *	LMC *	NEN 5771	*
28 *	.89350 *	A *	- *	- *	- *	- *	*
13 *	.91000 *	A *	LA *	- *	LUF *	HUIS	*
16 *	.92000 *	A *	LE *	C *	LMC *	C-O-NEN 5771	*
18 *	.97000 *	A *	LA *	C *	LMC *	HUIS	*
19 *	1.04500 *	A *	LE *	C *	LMC *	VPR C85-11	*
25 *	1.07500 *	A *	LH *	- *	LMC *	G-NEN 5771	*
12 *	1.15050 *	B *	Z *	- *	LUF *	HUIS	*
11 *	1.28600 *	B *	LE *	- *	LMC *	A-NEN 5771	*

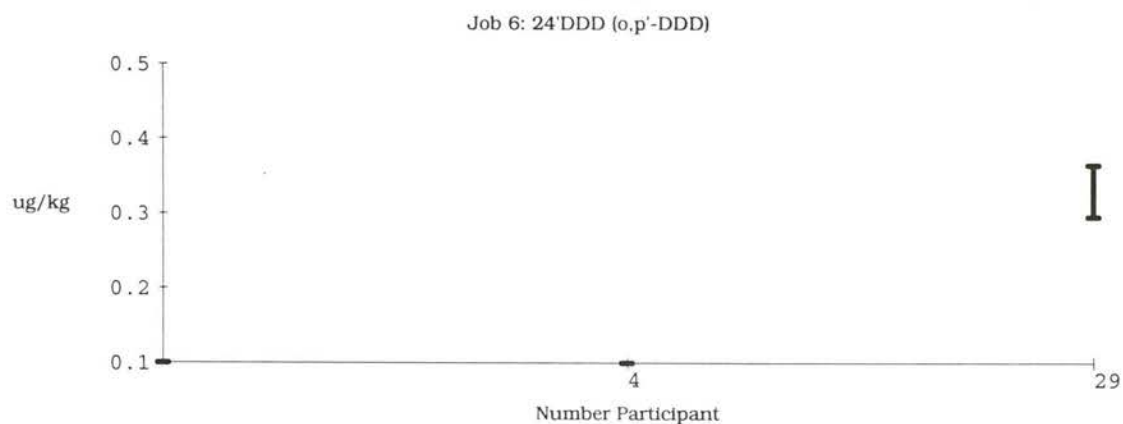
General Mean = .86117
Between lab standard deviation SL = .23648
Coefficient of variation = 27 %
Number of laboratories = 15

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

Job 6 : 99093, 99097

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

Lab *	X1 *	X2 *	Average *	%Variance *
1 *	1.00000 *	1.00000 *	.00000 *	0 % *
2 *	4.00000 *	5.00000 *	.00000 *	0 % *
3 *	10.00000 *	10.00000 *	.00000 *	0 % *
4 *	.05000 *	.05000 *	.05000 *	.0 % *
5 *	*	*	.00000 *	0 % *
6 *	*	*	.00000 *	0 % *
7 *	*	*	.00000 *	0 % *
8 *	*	*	.00000 *	0 % *
9 *	*	*	.00000 *	0 % *
10 *	*	*	.00000 *	0 % *
11 *	*	*	.00000 *	0 % *
12 *	.50000 *	.50000 *	.00000 *	0 % *
13 *	1.00000 *	1.00000 *	.00000 *	0 % *
14 *	*	*	.00000 *	0 % *
15 *	*	*	.00000 *	0 % *
16 *	5.00000 *	5.00000 *	.00000 *	0 % *
17 *	*	*	.00000 *	0 % *
18 *	.30000 *	.30000 *	.00000 *	0 % *
19 *	1.00000 *	1.00000 *	.00000 *	0 % *
20 *	.40000 *	.40000 *	.00000 *	0 % *
21 *	1.00000 *	1.00000 *	.00000 *	0 % *
22 *	5.00000 *	5.00000 *	.00000 *	0 % *
23 *	*	*	.00000 *	0 % *
24 *	*	*	.00000 *	0 % *
25 *	1.00000 *	1.00000 *	.00000 *	0 % *
26 *	*	*	.00000 *	0 % *
27 *	2.50000 *	2.50000 *	.00000 *	0 % *
28 *	10.00000 *	10.00000 *	.00000 *	0 % *
29 *	.30000 *	.20000 *	.25000 *	28.3 % *



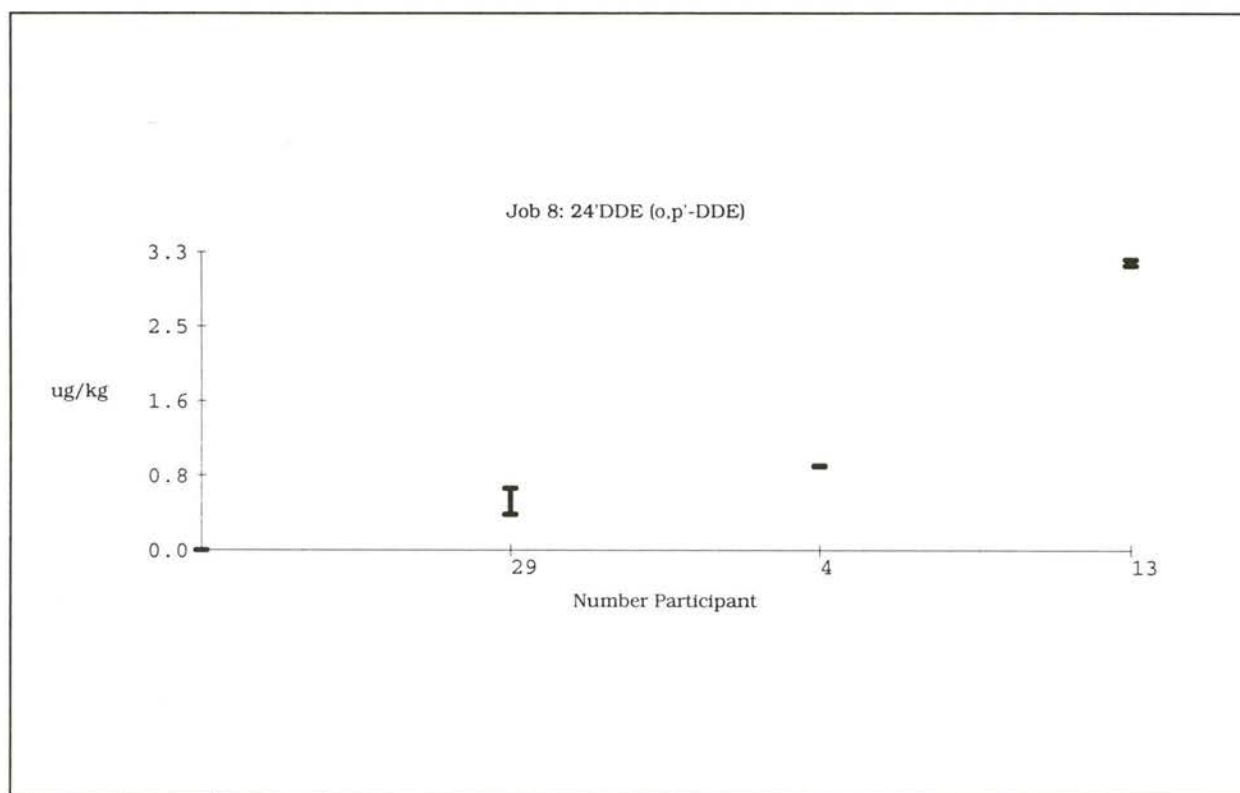
Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000	N	?	?	?	?	*
13 *	.00000	N	LA	S	GDE	NEN 5718/6406	*
19 *	.00000	N	LE	C	GDE	G-NEN 5734	*
24 *	.00000	N	-	-	-	-	*
1 *	.00000	N	S	-	GSM	HUIS	*
8 *	.00000	N	?	?	?	?	*
14 *	.00000	N	-	-	-	-	*
25 *	.00000	N	LH	-	GDE	NEN 5734	*
2 *	.00000	N	-	-	-	-	*
9 *	.00000	N	-	-	-	-	*
15 *	.00000	N	?	?	?	?	*
20 *	.00000	N	LE	SC	GDE	A-O-NEN 5718	*
26 *	.00000	N	-	-	-	-	*
3 *	.00000	N	-	-	GDE	NEN 5734	*
10 *	.00000	N	-	-	-	-	*
16 *	.00000	N	LE	SC	GDE	HUIS	*
21 *	.00000	N	LP	-	GSM	HUIS	*
27 *	.00000	N	-	-	-	HUIS	*
11 *	.00000	N	-	-	-	-	*
17 *	.00000	N	-	-	-	-	*
22 *	.00000	N	-	-	-	-	*
28 *	.00000	N	-	-	-	NEN 5734	*
5 *	.00000	N	-	-	-	-	*
12 *	.00000	N	Z	Z	GDE	HUIS	*
18 *	.00000	N	LA	C	GDE	HUIS	*
23 *	.00000	N	-	-	-	-	*
6 *	.00000	N	-	-	-	-	*
4 *	.05000	N	-	-	-	-	*
29 *	.25000	N	LE	LLSC	GDE	HUIS	*

Job 8 : 99093, 99097

24'DDE (o,p'-DDE), 24DDE in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
2 *	4.00000 *	5.00000 *	.00000 *	0 % *	< N.V.
3 *	5.00000 *	5.00000 *	.00000 *	0 % *	< N.V.
4 *	.92500 *	.93400 *	.92950 *	.7 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *			.00000 *	0 % *	- N.V.
12 *	.50000 *	.50000 *	.00000 *	0 % *	< N.V.
13 *	3.10000 *	3.20000 *	3.15000 *	2.2 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	5.00000 *	5.00000 *	.00000 *	0 % *	< N.V.
17 *			.00000 *	0 % *	- N.V.
18 *	.30000 *	.30000 *	.00000 *	0 % *	< N.V.
19 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
20 *	.70000 *	.70000 *	.00000 *	0 % *	< N.V.
21 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
22 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
26 *			.00000 *	0 % *	- N.V.
27 *	2.50000 *	2.50000 *	.00000 *	0 % *	< N.V.
28 *	10.00000 *	10.00000 *	.00000 *	0 % *	< N.V.
29 *	.20000 *	.60000 *	.40000 *	70.7 % *	

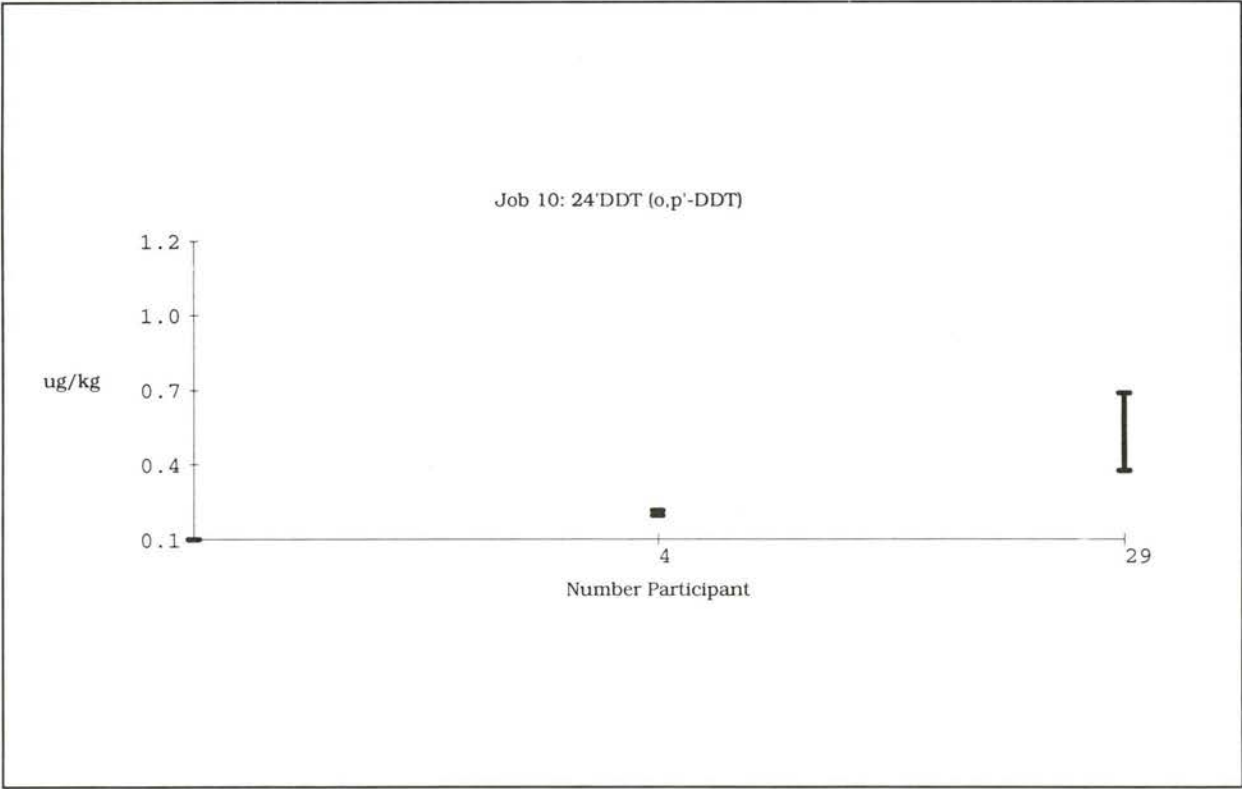


Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	N *	? *	? *	? *	? *	*
19 *	.00000 *	N *	LE *	C *	GDE *	G-NEN 5734	*
24 *	.00000 *	N *	- *	- *	- *	- *	*
1 *	.00000 *	N *	- *	- *	- *	- *	*
8 *	.00000 *	N *	? *	? *	? *	? *	*
14 *	.00000 *	N *	- *	- *	- *	- *	*
25 *	.00000 *	N *	LH *	- *	GDE *	NEN 5734	*
2 *	.00000 *	N *	- *	- *	- *	- *	*
9 *	.00000 *	N *	- *	- *	- *	- *	*
15 *	.00000 *	N *	? *	? *	? *	? *	*
20 *	.00000 *	N *	LE *	SC *	GDE *	A-O-NEN 5718	*
26 *	.00000 *	N *	- *	- *	- *	- *	*
3 *	.00000 *	N *	- *	- *	GDE *	NEN 5734	*
10 *	.00000 *	N *	- *	- *	- *	- *	*
16 *	.00000 *	N *	LE *	SC *	GDE *	HUIS	*
21 *	.00000 *	N *	LP *	- *	GSM *	HUIS	*
27 *	.00000 *	N *	- *	- *	- *	HUIS	*
11 *	.00000 *	N *	- *	- *	- *	- *	*
17 *	.00000 *	N *	- *	- *	- *	- *	*
22 *	.00000 *	N *	- *	- *	- *	- *	*
28 *	.00000 *	N *	- *	- *	- *	NEN 5734	*
5 *	.00000 *	N *	- *	- *	- *	- *	*
12 *	.00000 *	N *	Z *	Z *	GDE *	HUIS	*
18 *	.00000 *	N *	LA *	C *	GDE *	HUIS	*
23 *	.00000 *	N *	- *	- *	- *	- *	*
6 *	.00000 *	N *	- *	- *	- *	- *	*
29 *	.40000 *	N *	LE *	LLSC *	GDE *	HUIS	*
4 *	.92950 *	N *	- *	- *	- *	- *	*
13 *	3.15000 *	N *	LA *	S *	GDE *	NEN 5718/6406	*

Job 10 : 99093, 99097
 24'DDT (o,p'-DDT), 24DDT in ug/kg Sediment (Lake)
 Lab * X1 * X2 * Average * %Variance *

1	*	1.00000	*	1.00000	*	.00000	*	0	%	*	< N.V.
2	*	11.00000	*	5.00000	*	.00000	*	0	%	*	< N.V.
3	*	1.00000	*	1.00000	*	.00000	*	0	%	*	< N.V.
4	*	.25100	*	.22500	*	.23800	*	7.7	%	*	
5	*		*		*	.00000	*	0	%	*	- N.V.
6	*		*		*	.00000	*	0	%	*	- N.V.
7	*		*		*	.00000	*	0	%	*	- N.V.
8	*		*		*	.00000	*	0	%	*	- N.V.
9	*		*		*	.00000	*	0	%	*	- N.V.
10	*		*		*	.00000	*	0	%	*	- N.V.
11	*		*		*	.00000	*	0	%	*	- N.V.
12	*	.50000	*	.50000	*	.00000	*	0	%	*	< N.V.
13	*	1.00000	*	1.00000	*	.00000	*	0	%	*	< N.V.
14	*		*		*	.00000	*	0	%	*	- N.V.
15	*		*		*	.00000	*	0	%	*	- N.V.
16	*	5.00000	*	5.00000	*	.00000	*	0	%	*	< N.V.
17	*	5.00000	*	5.00000	*	.00000	*	0	%	*	< N.V.
18	*	.30000	*	.30000	*	.00000	*	0	%	*	< N.V.
19	*	1.00000	*	1.00000	*	.00000	*	0	%	*	< N.V.
20	*	.50000	*	.50000	*	.00000	*	0	%	*	< N.V.
21	*	1.00000	*	1.00000	*	.00000	*	0	%	*	< N.V.
22	*	.50000	*	.50000	*	.00000	*	0	%	*	< N.V.
23	*		*		*	.00000	*	0	%	*	- N.V.
24	*		*		*	.00000	*	0	%	*	- N.V.
25	*	1.00000	*	1.00000	*	.00000	*	0	%	*	< N.V.
26	*		*		*	.00000	*	0	%	*	- N.V.
27	*	2.50000	*	2.50000	*	.00000	*	0	%	*	< N.V.
28	*	10.00000	*	10.00000	*	.00000	*	0	%	*	< N.V.
29	*	.20000	*	.60000	*	.40000	*	70.7	%	*	



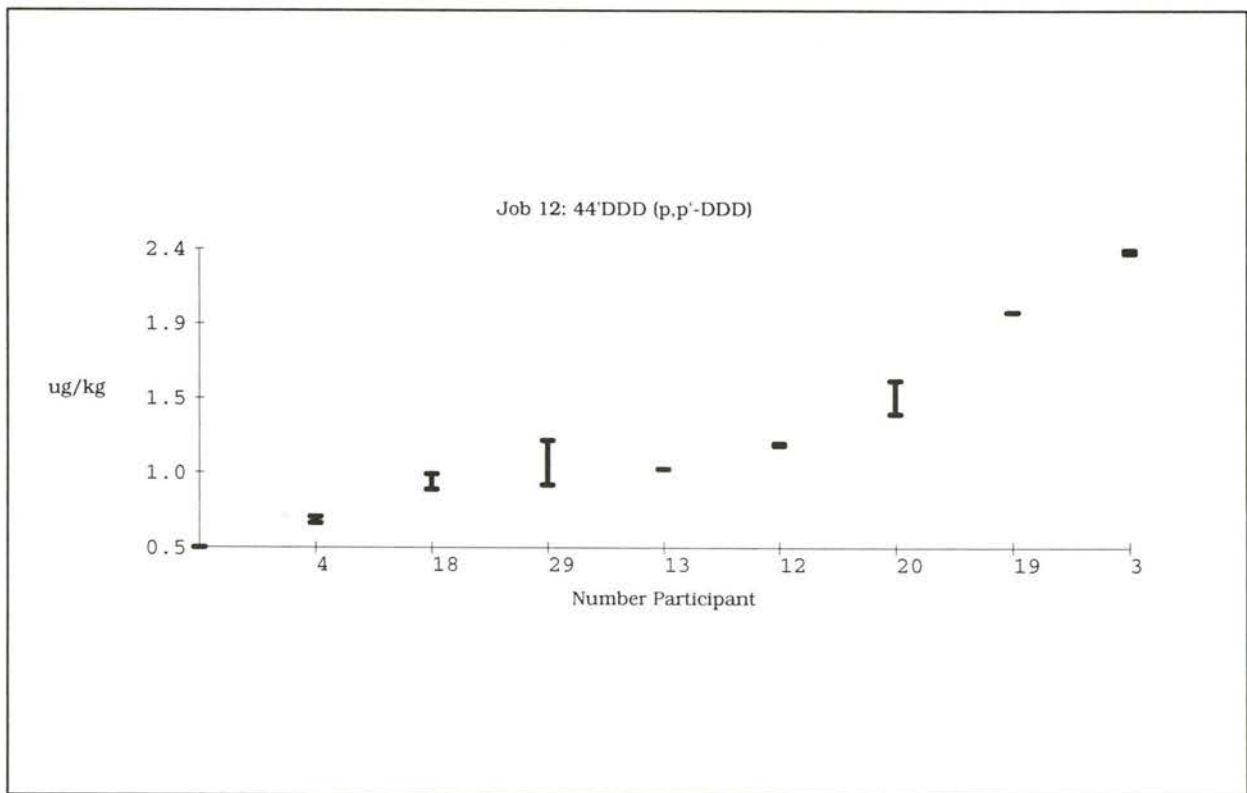
Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000	N	* ?	* ?	* ?	* ?	*
13 *	.00000	N	* LA	* S	* GDE	* NEN 5718/6406	*
19 *	.00000	N	* LE	* C	* GDE	* G-NEN 5734	*
24 *	.00000	N	* -	* -	* -	* -	*
1 *	.00000	N	* -	* -	* -	* -	*
8 *	.00000	N	* ?	* ?	* ?	* ?	*
14 *	.00000	N	* -	* -	* -	* -	*
25 *	.00000	N	* LH	* -	* GDE	* NEN 5734	*
2 *	.00000	N	* -	* -	* -	* -	*
9 *	.00000	N	* -	* -	* -	* -	*
15 *	.00000	N	* ?	* ?	* ?	* ?	*
20 *	.00000	N	* LE	* SC	* GDE	* A-O-NEN 5718	*
26 *	.00000	N	* -	* -	* -	* -	*
3 *	.00000	N	* -	* -	* GDE	* NEN 5734	*
10 *	.00000	N	* -	* -	* -	* -	*
16 *	.00000	N	* LE	* SC	* GDE	* HUIS	*
21 *	.00000	N	* LP	* -	* GSM	* HUIS	*
27 *	.00000	N	* -	* -	* -	* HUIS	*
11 *	.00000	N	* -	* -	* -	* -	*
17 *	.00000	N	* LE	* SC	* GDE	* HUIS	*
22 *	.00000	N	* -	* -	* -	* -	*
28 *	.00000	N	* -	* -	* -	* NEN 5734	*
5 *	.00000	N	* -	* -	* -	* -	*
12 *	.00000	N	* Z	* Z	* GDE	* HUIS	*
18 *	.00000	N	* LA	* C	* GDE	* HUIS	*
23 *	.00000	N	* -	* -	* -	* -	*
6 *	.00000	N	* -	* -	* -	* -	*
4 *	.23800	N	* -	* -	* -	* -	*
29 *	.40000	N	* LE	* LLSC	* GDE	* HUIS	*

Job 12 : 99093, 99097

44'DDD (p,p'-DDD), 44DDD in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
2 *	4.00000 *	5.00000 *	.00000 *	0 % *	< N.V.
3 *	2.39000 *	2.36000 *	2.37500 *	.9 % *	
4 *	.68600 *	.62600 *	.65600 *	6.5 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *			.00000 *	0 % *	- N.V.
12 *	1.14000 *	1.16000 *	1.15000 *	1.2 % *	
13 *	1.00000 *	1.00000 *	1.00000 *	.0 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	5.00000 *	5.00000 *	.00000 *	0 % *	< N.V.
17 *	5.00000 *	5.00000 *	.00000 *	0 % *	< N.V.
18 *	.80000 *	.94000 *	.87000 *	11.4 % *	
19 *	2.00000 *	2.00000 *	2.00000 *	.0 % *	
20 *	1.50000 *	1.20000 *	1.35000 *	15.7 % *	
21 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
22 *	5.00000 *	5.00000 *	.00000 *	0 % *	< N.V.
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	2.00000 *	1.00000 *	1.50000 *	47.1 % *	
26 *			.00000 *	0 % *	- N.V.
27 *	2.50000 *	2.50000 *	.00000 *	0 % *	< N.V.
28 *	10.00000 *	10.00000 *	.00000 *	0 % *	< N.V.
29 *	1.10000 *	.70000 *	.90000 *	31.4 % *	



Analysis

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

9 laboratory observations

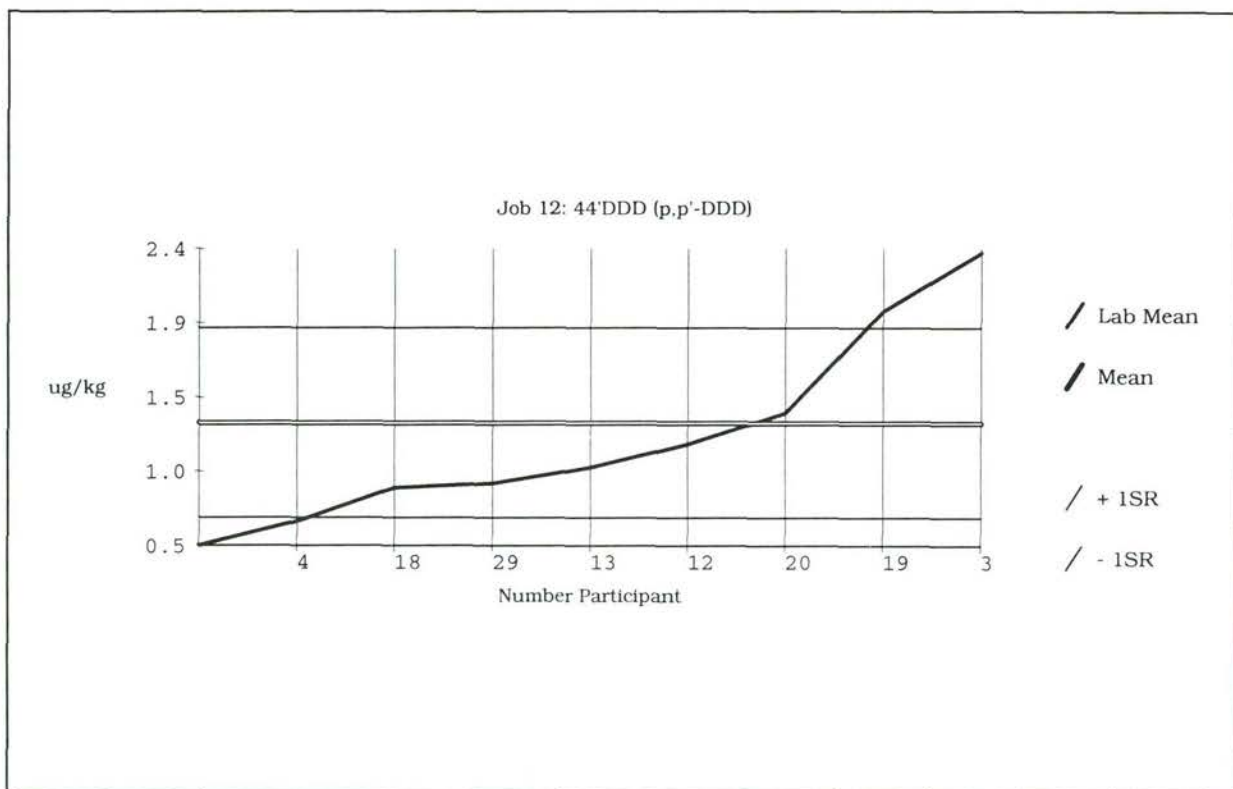
Maximum absolute difference from Normal distribution: 0.16966. Critical value: 0.51300. KS-test passed

COCHRAN; 1 % ; replicas: 2

Cyc *	Lab *	Average *	Variance *	Result *	Value
1 *	25 *	1.50000 *	.70711 *	.78462 *	.75452

Summary

1. Eliminations due to
 - 1.1 Repeatability = 1
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 0
2. General Mean = 1.28763
3. Repeatability
 - 3.1 Standard deviation $Sr = .13098$
 - 3.2 Coefficient of variation = 10 %
4. Reproducibility
 - 4.1 Standard deviation $SR = .60699$
 - 4.2 Coefficient of variation = 47 %



Job Classification

Lab	Mean	Clas	Ext	Clean	Det	Procedure
7	.00000	G	?	?	?	?
24	.00000	G	-	-	-	-
1	.00000	G	-	-	-	-
8	.00000	G	?	?	?	?
14	.00000	G	-	-	-	-
2	.00000	G	-	-	-	-
9	.00000	G	-	-	-	-
15	.00000	G	?	?	?	?
26	.00000	G	-	-	-	-
10	.00000	G	-	-	-	-
16	.00000	G	LE	SC	GDE	HUIS
21	.00000	G	LP	-	GSM	HUIS
27	.00000	G	-	-	-	HUIS
11	.00000	G	-	-	-	-
17	.00000	G	LE	SC	GDE	HUIS
22	.00000	G	-	-	-	-
23	.00000	G	-	-	-	NEN 5734
5	.00000	G	-	-	-	-
23	.00000	G	-	-	-	-
6	.00000	G	-	-	-	-
4	.65600	B	-	-	-	-
18	.87000	A	LA	C	GDE	HUIS
29	.90000	A	LE	LLSC	GDE	HUIS
13	1.00000	A	LA	S	GDE	NEN 5718/6406
12	1.15000	A	Z	Z	GDE	HUIS
20	1.35000	A	LE	SC	GDE	A-O-NEN 5718
25	1.50000	W	LH	-	GDE	NEN 5734
19	2.00000	B	LE	C	GDE	G-NEN 5734
3	2.37500	B	-	-	GDE	NEN 5734

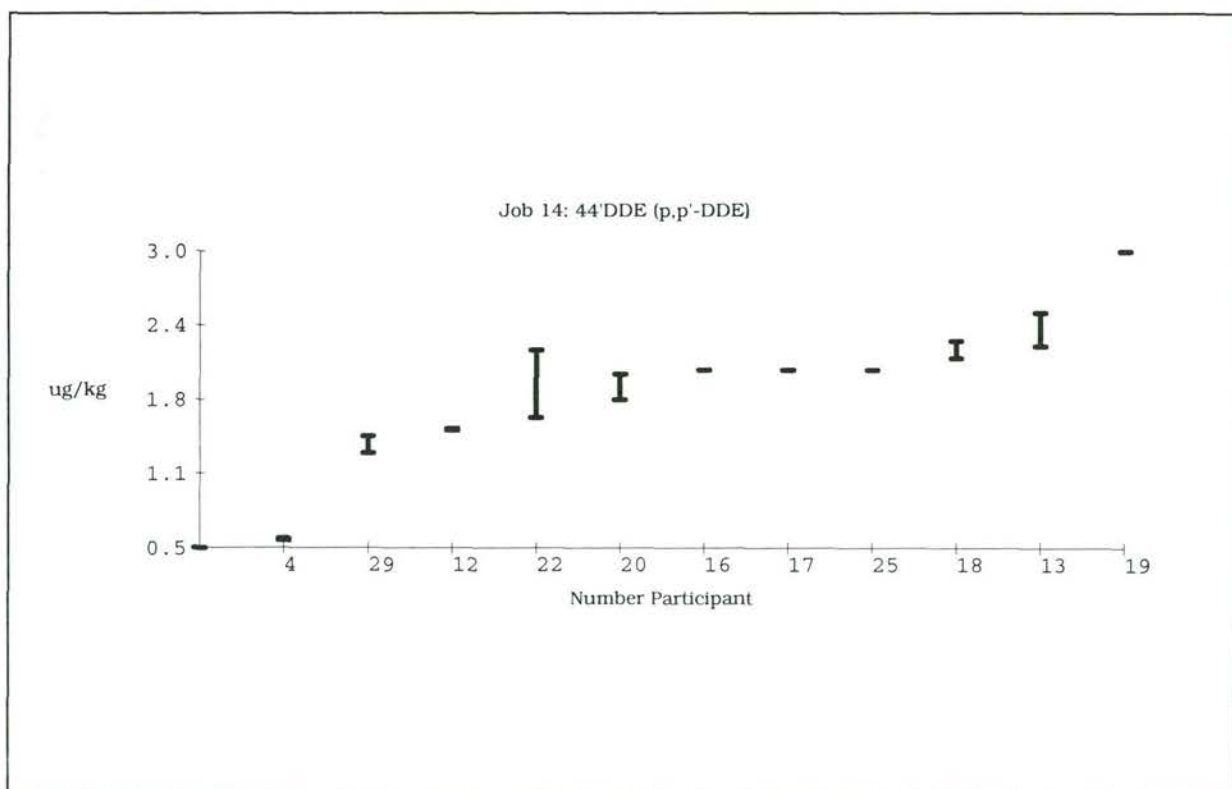
General Mean = 1.28763
Between lab standard deviation SL = .59269
Coefficient of variation = 46 %
Number of laboratories = 8

A: Number of laboratories with Z-scores between 0 and 1 ; 5
B: Number of laboratories with Z-scores between 1 and 2 ; 3
C: Number of laboratories with Z-scores between 2 and 3 ; 0
D: Number of laboratories with Z-scores larger than 3 ; 0

Job 14 : 99093, 99097

44'DDE (p,p'-DDE), 44DDE in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
2 *	4.00000 *	5.00000 *	.00000 *	0 % *	< N.V.
3 *	7.09000 *	4.57000 *	5.83000 *	30.6 % *	
4 *	.57700 *	.55800 *	.56750 *	2.4 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *			.00000 *	0 % *	- N.V.
12 *	1.50000 *	1.48000 *	1.49000 *	.9 % *	
13 *	2.00000 *	2.40000 *	2.20000 *	12.9 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	2.00000 *	2.00000 *	2.00000 *	.0 % *	
17 *	2.00000 *	2.00000 *	2.00000 *	.0 % *	
18 *	2.20000 *	2.00000 *	2.10000 *	6.7 % *	
19 *	3.00000 *	3.00000 *	3.00000 *	.0 % *	
20 *	1.60000 *	1.90000 *	1.75000 *	12.1 % *	
21 *	1.00000 *	3.70000 *	.00000 *	0 % *	< N.V.
22 *	2.00000 *	1.20000 *	1.60000 *	35.4 % *	
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	2.00000 *	2.00000 *	2.00000 *	.0 % *	
26 *			.00000 *	0 % *	- N.V.
27 *	2.50000 *	2.50000 *	.00000 *	0 % *	< N.V.
28 *	10.00000 *	10.00000 *	.00000 *	0 % *	< N.V.
29 *	1.20000 *	1.40000 *	1.30000 *	10.9 % *	



Analysis

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

12 laboratory observations

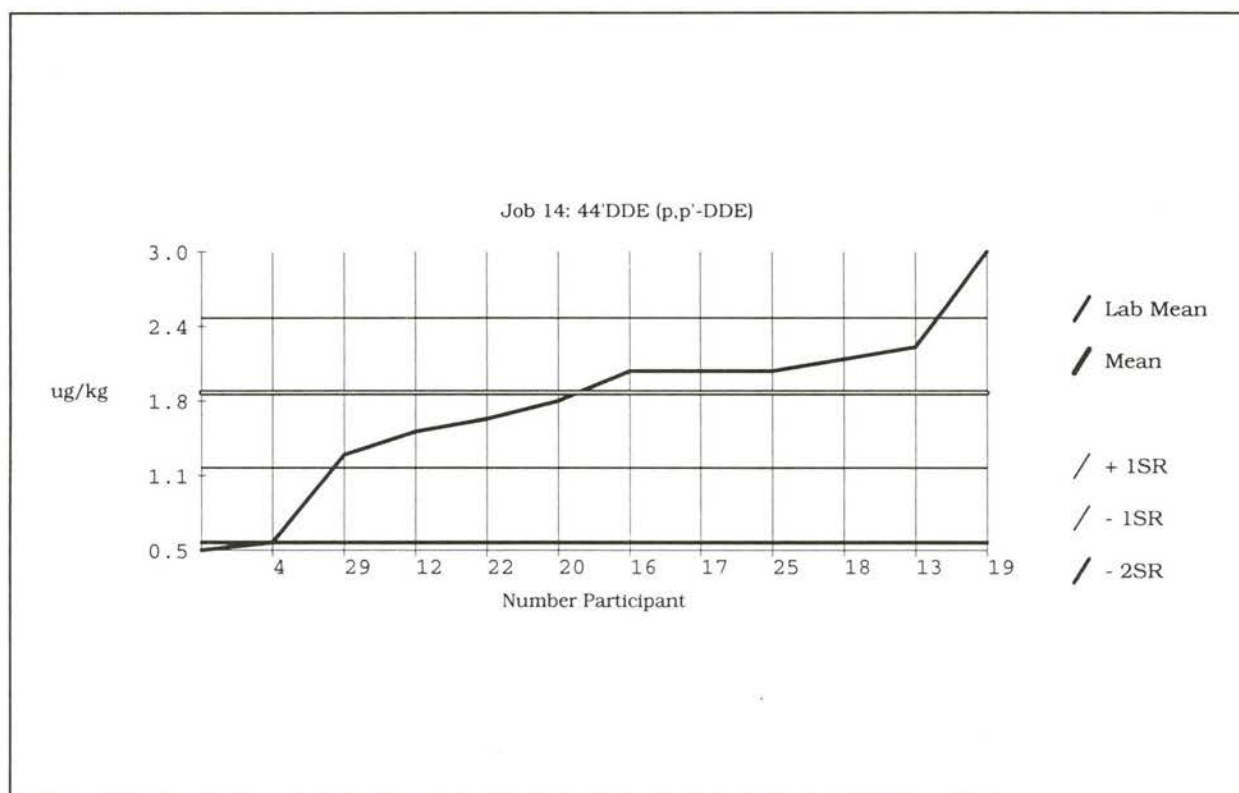
Maximum absolute difference from Normal distribution: 0.31737. Critical value: 0.44900. KS-test passed

COCHRAN; 1 % ; replicas: 2

Cyc *	Lab *	Average *	Variance *	Result *	Value
1 *	3 *	5.83000 *	1.78191 *	.86740 *	.65270

Summary

1. Eliminations due to
 - 1.1 Repeatability = 1
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 0
2. General Mean = 1.81886
3. Repeatability
 - 3.1 Standard deviation $S_r = .21006$
 - 3.2 Coefficient of variation = 12 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .62725$
 - 4.2 Coefficient of variation = 34 %



Job Classification

Lab *	Mean	* Clas	* Ext	* Clean	* Det	* Procedure	*
7 *	.00000	* G	* ?	* ?	* ?	* ?	*
24 *	.00000	* G	* -	* -	* -	* -	*
1 *	.00000	* G	* -	* -	* -	* -	*
8 *	.00000	* G	* ?	* ?	* ?	* ?	*
14 *	.00000	* G	* -	* -	* -	* -	*
2 *	.00000	* G	* -	* -	* -	* -	*
9 *	.00000	* G	* -	* -	* -	* -	*
15 *	.00000	* G	* ?	* ?	* ?	* ?	*
26 *	.00000	* G	* -	* -	* -	* -	*
10 *	.00000	* G	* -	* -	* -	* -	*
21 *	.00000	* G	* LP	* -	* GSM	* HUIS	*
27 *	.00000	* G	* -	* -	* -	* HUIS	*
11 *	.00000	* G	* -	* -	* -	* -	*
28 *	.00000	* G	* -	* -	* -	* NEN 5734	*
5 *	.00000	* G	* -	* -	* -	* -	*
23 *	.00000	* G	* -	* -	* -	* -	*
6 *	.00000	* G	* -	* -	* -	* -	*
4 *	.56750	* C	* -	* -	* -	* -	*
29 *	1.30000	* A	* LE	* LLSC	* GDE	* HUIS	*
12 *	1.49000	* A	* Z	* Z	* GDE	* HUIS	*
22 *	1.60000	* A	* -	* -	* -	* -	*
20 *	1.75000	* A	* LE	* SC	* GDE	* A-O-NEN 5718	*
25 *	2.00000	* A	* LH	* -	* GDE	* NEN 5734	*
16 *	2.00000	* A	* LE	* SC	* GDE	* HUIS	*
17 *	2.00000	* A	* LE	* SC	* GDE	* HUIS	*
18 *	2.10000	* A	* LA	* C	* GDE	* HUIS	*
13 *	2.20000	* A	* LA	* S	* GDE	* NEN 5718/6406	*
19 *	3.00000	* B	* LE	* C	* GDE	* G-NEN 5734	*
3 *	5.83000	* W	* -	* -	* GDE	* NEN 5734	*

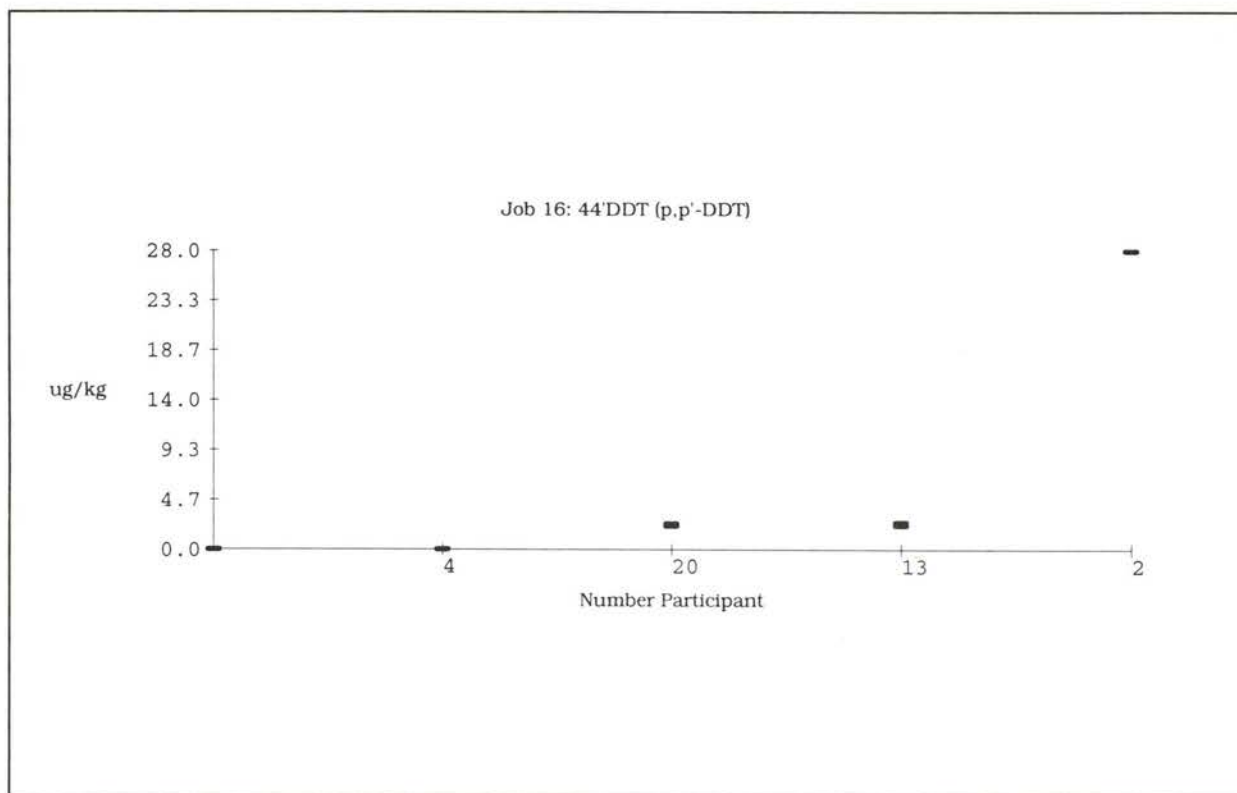
General Mean = 1.81886
Between lab standard deviation SL = .59103
Coefficient of variation = 32 %
Number of laboratories = 11

A: Number of laboratories with Z-scores between 0 and 1 ; 9
B: Number of laboratories with Z-scores between 1 and 2 ; 1
C: Number of laboratories with Z-scores between 2 and 3 ; 1
D: Number of laboratories with Z-scores larger than 3 ; 0

Job 16 : 99093, 99097

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

Lab *	X1 *	X2 *	Average *	%Variance *
1 *	1.00000 *	1.00000 *	.00000 *	0 % *
2 *	28.00000 *	28.00000 *	28.00000 *	.0 % *
3 *	1.00000 *	1.00000 *	.00000 *	0 % *
4 *	.05000 *	.05000 *	.05000 *	.0 % *
5 *	*	*	.00000 *	0 % *
6 *	*	*	.00000 *	0 % *
7 *	*	*	.00000 *	0 % *
8 *	*	*	.00000 *	0 % *
9 *	*	*	.00000 *	0 % *
10 *	*	*	.00000 *	0 % *
11 *	*	*	.00000 *	0 % *
12 *	1.00000 *	1.00000 *	.00000 *	0 % *
13 *	2.10000 *	2.50000 *	2.30000 *	12.3 % *
14 *	*	*	.00000 *	0 % *
15 *	*	*	.00000 *	0 % *
16 *	5.00000 *	5.00000 *	.00000 *	0 % *
17 *	5.00000 *	5.00000 *	.00000 *	0 % *
18 *	.30000 *	.30000 *	.00000 *	0 % *
19 *	1.00000 *	1.00000 *	.00000 *	0 % *
20 *	2.40000 *	2.10000 *	2.25000 *	9.4 % *
21 *	1.00000 *	1.00000 *	.00000 *	0 % *
22 *	5.00000 *	5.00000 *	.00000 *	0 % *
23 *	*	*	.00000 *	0 % *
24 *	*	*	.00000 *	0 % *
25 *	1.00000 *	1.00000 *	.00000 *	0 % *
26 *	*	*	.00000 *	0 % *
27 *	2.50000 *	2.50000 *	.00000 *	0 % *
28 *	10.00000 *	10.00000 *	.00000 *	0 % *
29 *	5.30000 *	1.40000 *	3.35000 *	82.3 % *



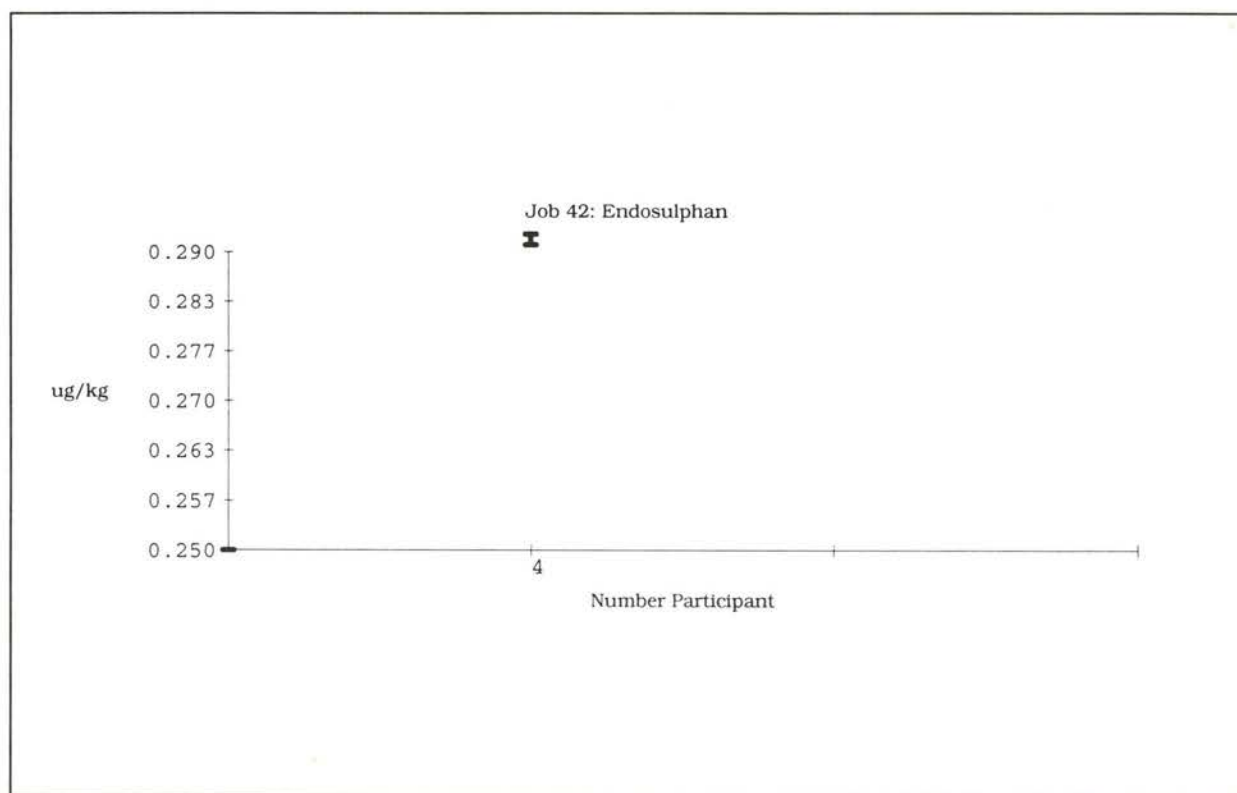
Job Classification

Lab *	Mean	* Clas	* Ext	* Clean	* Det	* Procedure	*
7 *	.00000	* N	* ?	* ?	* ?	* ?	*
19 *	.00000	* N	* LE	* C	* GDE	* G-NEN 5734	*
24 *	.00000	* N	* -	* -	* -	* -	*
1 *	.00000	* N	* -	* -	* -	* -	*
8 *	.00000	* N	* ?	* ?	* ?	* ?	*
14 *	.00000	* N	* -	* -	* -	* -	*
25 *	.00000	* N	* LH	* -	* GDE	* NEN 5734	*
9 *	.00000	* N	* -	* -	* -	* -	*
15 *	.00000	* N	* ?	* ?	* ?	* ?	*
26 *	.00000	* N	* -	* -	* -	* -	*
3 *	.00000	* N	* -	* -	* GDE	* NEN 5734	*
10 *	.00000	* N	* -	* -	* -	* -	*
16 *	.00000	* N	* LE	* SC	* GDE	* HUIS	*
21 *	.00000	* N	* LP	* -	* GSM	* HUIS	*
27 *	.00000	* N	* -	* -	* -	* HUIS	*
11 *	.00000	* N	* -	* -	* -	* -	*
17 *	.00000	* N	* LE	* SC	* GDE	* HUIS	*
22 *	.00000	* N	* -	* -	* -	* -	*
28 *	.00000	* N	* -	* -	* -	* NEN 5734	*
5 *	.00000	* N	* -	* -	* -	* -	*
12 *	.00000	* N	* Z	* Z	* GDE	* HUIS	*
18 *	.00000	* N	* LA	* C	* GDE	* HUIS	*
23 *	.00000	* N	* -	* -	* -	* -	*
6 *	.00000	* N	* -	* -	* -	* -	*
4 *	.05000	* N	* -	* -	* -	* -	*
20 *	2.25000	* N	* LE	* SC	* GDE	* A-O-NEN 5718	*
13 *	2.30000	* N	* LA	* S	* GDE	* NEN 5718/6406	*
29 *	3.35000	* N	* LE	* LLSC	* GDE	* HUIS	*
2 *	28.00000	* N	* -	* -	* -	* -	*

Job 42 : 99093, 99097

Endosulphan, Endosulphan in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *
1 *	1.00000 *	1.00000 *	.00000 *	0 % *
2 *	16.00000 *	35.00000 *	.00000 *	0 % *
3 *	1.00000 *	1.00000 *	.00000 *	0 % *
4 *	.29200 *	.29000 *	.29100 *	.5 % *
5 *	*	*	.00000 *	0 % *
6 *	*	*	.00000 *	0 % *
7 *	*	*	.00000 *	0 % *
8 *	*	*	.00000 *	0 % *
9 *	*	*	.00000 *	0 % *
10 *	*	*	.00000 *	0 % *
11 *	*	*	.00000 *	0 % *
12 *	*	*	.00000 *	0 % *
13 *	1.00000 *	1.00000 *	.00000 *	0 % *
14 *	*	*	.00000 *	0 % *
15 *	*	*	.00000 *	0 % *
16 *	5.00000 *	5.00000 *	.00000 *	0 % *
17 *	2.00000 *	2.00000 *	.00000 *	0 % *
18 *	.30000 *	.30000 *	.00000 *	0 % *
19 *	1.00000 *	1.00000 *	.00000 *	0 % *
20 *	.60000 *	.60000 *	.00000 *	0 % *
21 *	1.00000 *	1.00000 *	.00000 *	0 % *
22 *	1.00000 *	1.00000 *	.00000 *	0 % *
23 *	*	*	.00000 *	0 % *
24 *	*	*	.00000 *	0 % *
25 *	1.00000 *	1.00000 *	.00000 *	0 % *
26 *	*	*	.00000 *	0 % *
27 *	5.00000 *	5.00000 *	.00000 *	0 % *
28 *	10.00000 *	10.00000 *	.00000 *	0 % *
29 *	.10000 *	.10000 *	.00000 *	0 % *



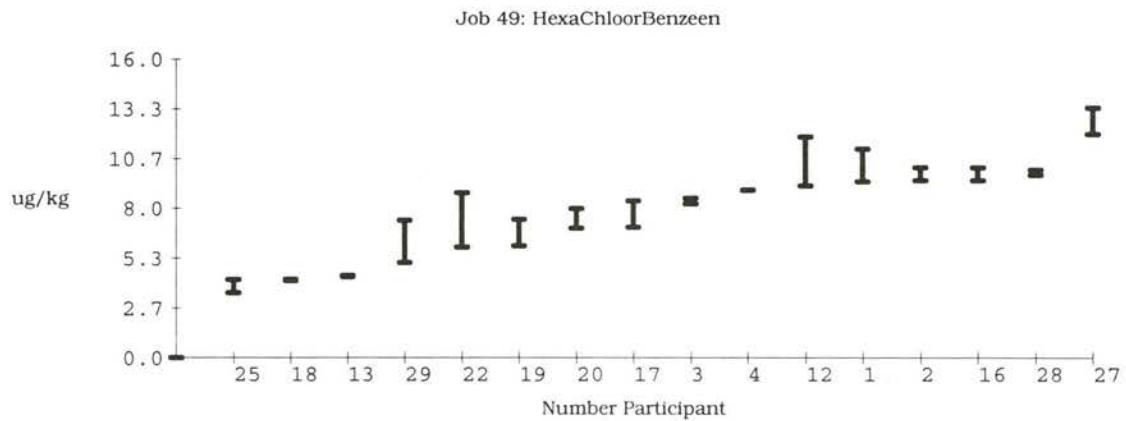
Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000	N	* ?	* ?	* ?	* ?	*
13 *	.00000	N	* LA	* S	* GDE	* NEN 5718/6406	*
19 *	.00000	N	* LE	* C	* GDE	* G-NEN 5734	*
24 *	.00000	N	* -	* -	* -	* -	*
1 *	.00000	N	* S	* -	* GSM	* HUIS	*
8 *	.00000	N	* ?	* ?	* ?	* ?	*
14 *	.00000	N	* -	* -	* -	* -	*
25 *	.00000	N	* LH	* -	* GDE	* NEN 5734	*
2 *	.00000	N	* -	* -	* -	* -	*
9 *	.00000	N	* -	* -	* -	* -	*
15 *	.00000	N	* ?	* ?	* ?	* ?	*
20 *	.00000	N	* LE	* SC	* GDE	* A-O-NEN 5718	*
26 *	.00000	N	* -	* -	* -	* -	*
3 *	.00000	N	* -	* -	* GDE	* NEN 5734	*
10 *	.00000	N	* -	* -	* -	* -	*
16 *	.00000	N	* LE	* SC	* GDE	* HUIS	*
21 *	.00000	N	* LP	* -	* GSM	* HUIS	*
27 *	.00000	N	* -	* -	* -	* HUIS	*
11 *	.00000	N	* -	* -	* -	* -	*
17 *	.00000	N	* LE	* SC	* GDE	* HUIS	*
22 *	.00000	N	* -	* -	* -	* -	*
28 *	.00000	N	* -	* -	* -	* NEN 5734	*
5 *	.00000	N	* -	* -	* -	* -	*
12 *	.00000	N	* -	* -	* -	* -	*
18 *	.00000	N	* LA	* C	* GDE	* HUIS	*
23 *	.00000	N	* -	* -	* -	* -	*
29 *	.00000	N	* LE	* LLSC	* GDE	* HUIS	*
6 *	.00000	N	* -	* -	* -	* -	*
4 *	.29100	N	* -	* -	* -	* -	*

Job 49 : 99093, 99097

HexaChloorBenzeen, HCB in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	10.68000	8.20000	9.44000	18.6 %	*
2 *	10.00000	9.00000	9.50000	7.4 %	*
3 *	8.03000	8.46000	8.24500	3.7 %	*
4 *	8.96000	8.99000	8.97500	.2 %	*
5 *			.00000	0 %	* - N.V.
6 *			.00000	0 %	* - N.V.
7 *			.00000	0 %	* - N.V.
8 *			.00000	0 %	* - N.V.
9 *			.00000	0 %	* - N.V.
10 *			.00000	0 %	* - N.V.
11 *			.00000	0 %	* - N.V.
12 *	11.08000	7.34000	9.21000	28.7 %	*
13 *	4.40000	4.30000	4.35000	1.6 %	*
14 *			.00000	0 %	* - N.V.
15 *			.00000	0 %	* - N.V.
16 *	10.00000	9.00000	9.50000	7.4 %	*
17 *	6.00000	8.00000	7.00000	20.2 %	*
18 *	4.20000	4.10000	4.15000	1.7 %	*
19 *	5.00000	7.00000	6.00000	23.6 %	*
20 *	7.70000	6.20000	6.95000	15.3 %	*
21 *			.00000	0 %	* - N.V.
22 *	8.00000	3.90000	5.95000	48.7 %	*
23 *			.00000	0 %	* - N.V.
24 *			.00000	0 %	* - N.V.
25 *	4.00000	3.00000	3.50000	20.2 %	*
26 *			.00000	0 %	* - N.V.
27 *	11.00000	13.00000	12.00000	11.8 %	*
28 *	9.60000	10.00000	9.80000	2.9 %	*
29 *	3.50000	6.70000	5.10000	44.4 %	*



Analysis

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

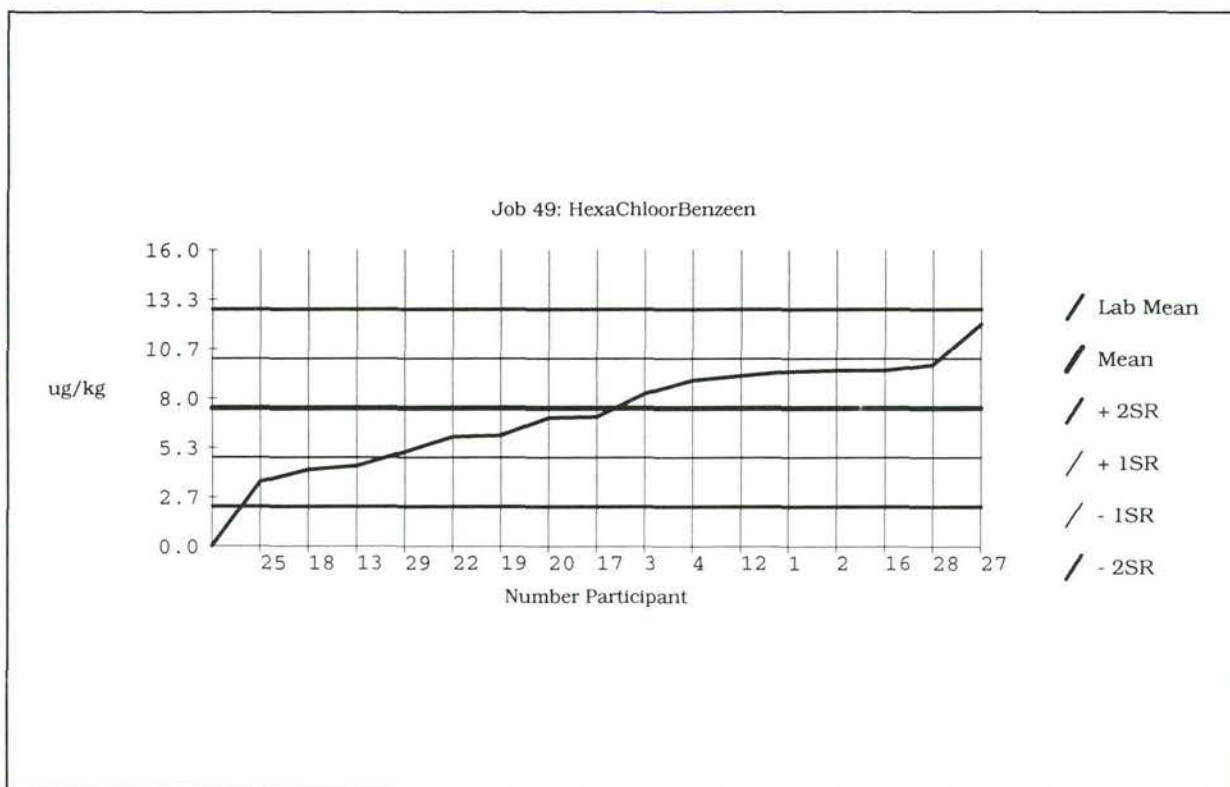
16 laboratory observations

Maximum absolute difference from Normal distribution: 0.11110. Critical value: 0.39200. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 0
2. General Mean = 7.47938
3. Repeatability
 - 3.1 Standard deviation $S_r = 1.42307$
 - 3.2 Coefficient of variation = 19 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = 2.66145$
 - 4.2 Coefficient of variation = 36 %



Job Classification

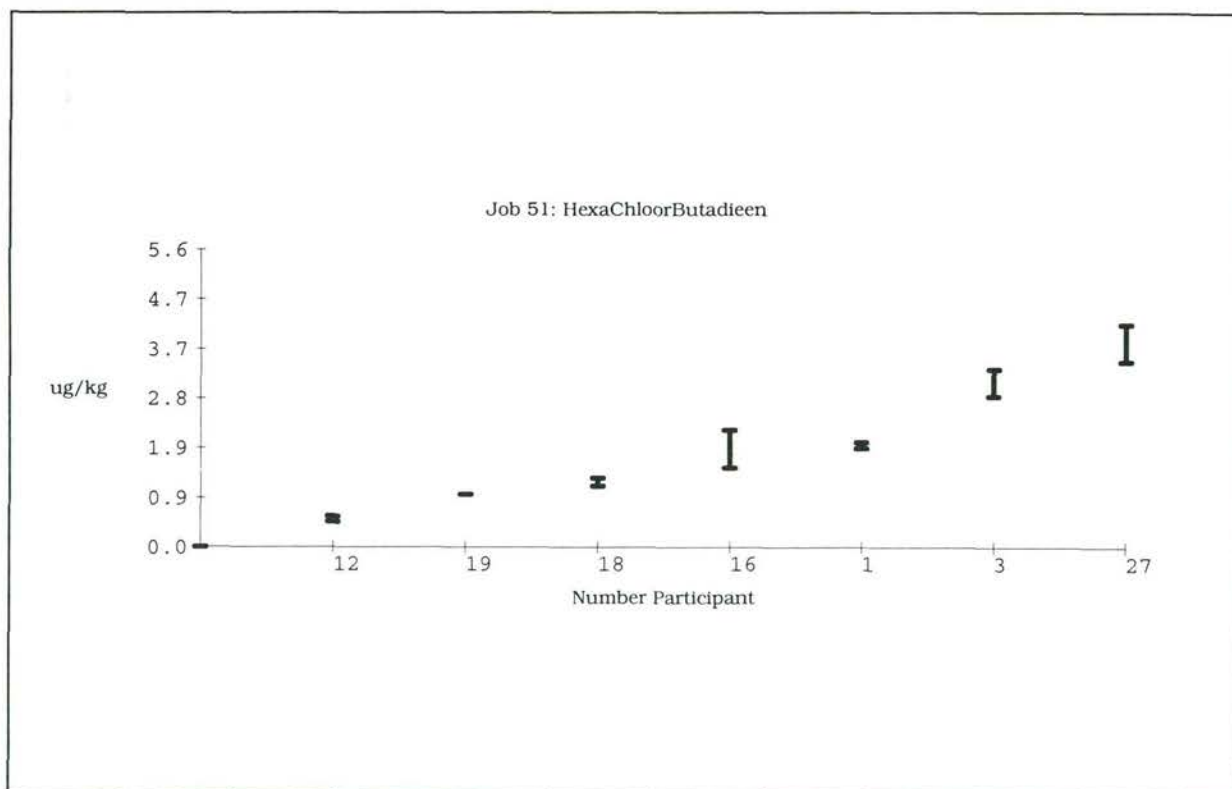
Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	G *	? *	? *	? *	? *	*
24 *	.00000 *	G *	- *	- *	- *	- *	*
8 *	.00000 *	G *	? *	? *	? *	? *	*
14 *	.00000 *	G *	- *	- *	- *	- *	*
9 *	.00000 *	G *	- *	- *	- *	- *	*
15 *	.00000 *	G *	? *	? *	? *	? *	*
26 *	.00000 *	G *	- *	- *	- *	- *	*
10 *	.00000 *	G *	- *	- *	- *	- *	*
21 *	.00000 *	G *	- *	- *	- *	- *	*
11 *	.00000 *	G *	- *	- *	- *	- *	*
5 *	.00000 *	G *	- *	- *	- *	- *	*
23 *	.00000 *	G *	- *	- *	- *	- *	*
6 *	.00000 *	G *	- *	- *	- *	- *	*
25 *	3.50000 *	B *	LH *	- *	GDE *	NEN 5734	*
18 *	4.15000 *	B *	LA *	C *	GDE *	HUIS	*
13 *	4.35000 *	B *	LA *	S *	GDE *	NEN 5718/6406	*
29 *	5.10000 *	A *	LE *	LLSC *	GDE *	HUIS	*
22 *	5.95000 *	A *	- *	- *	- *	- *	*
19 *	6.00000 *	A *	LE *	C *	GDE *	G-NEN 5734	*
20 *	6.95000 *	A *	LE *	SC *	GDE *	A-O-NEN 5718	*
17 *	7.00000 *	A *	LE *	SC *	GDE *	HUIS	*
3 *	8.24500 *	A *	- *	- *	GDE *	NEN 5734	*
4 *	8.97500 *	A *	- *	- *	- *	- *	*
12 *	9.21000 *	A *	Z *	Z *	GDE *	HUIS	*
1 *	9.44000 *	A *	- *	- *	- *	- *	*
2 *	9.50000 *	A *	- *	- *	- *	- *	*
16 *	9.50000 *	A *	LE *	SC *	GDE *	HUIS	*
28 *	9.80000 *	A *	- *	- *	- *	NEN 5734	*
27 *	12.00000 *	B *	- *	- *	- *	HUIS	*

General Mean = 7.47938
Between lab standard deviation SL = 2.24905
Coefficient of variation = 30 %
Number of laboratories = 16

A: Number of laboratories with Z-scores between 0 and 1 ; 12
B: Number of laboratories with Z-scores between 1 and 2 ; 4
C: Number of laboratories with Z-scores between 2 and 3 ; 0
D: Number of laboratories with Z-scores larger than 3 ; 0

Job 51 : 99093, 99097
 HexaChloorButadien, HCBd in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	1.78800	1.94400	1.86600	5.9 %	*
2 *			.00000	0 %	* - N.V.
3 *	3.21000	2.49000	2.85000	17.9 %	*
4 *			.00000	0 %	* - N.V.
5 *			.00000	0 %	* - N.V.
6 *			.00000	0 %	* - N.V.
7 *			.00000	0 %	* - N.V.
8 *			.00000	0 %	* - N.V.
9 *			.00000	0 %	* - N.V.
10 *			.00000	0 %	* - N.V.
11 *			.00000	0 %	* - N.V.
12 *	.56000	.42000	.49000	20.2 %	*
13 *			.00000	0 %	* - N.V.
14 *			.00000	0 %	* - N.V.
15 *			.00000	0 %	* - N.V.
16 *	2.00000	1.00000	1.50000	47.1 %	*
17 *			.00000	0 %	* - N.V.
18 *	1.26000	1.05000	1.15500	12.9 %	*
19 *	1.00000	1.00000	1.00000	.0 %	*
20 *			.00000	0 %	* - N.V.
21 *	1.00000	1.00000	.00000	0 %	* < N.V.
22 *			.00000	0 %	* - N.V.
23 *			.00000	0 %	* - N.V.
24 *			.00000	0 %	* - N.V.
25 *	1.00000	1.00000	.00000	0 %	* < N.V.
26 *			.00000	0 %	* - N.V.
27 *	3.00000	4.00000	3.50000	20.2 %	*
28 *			.00000	0 %	* - N.V.
29 *	.10000	.70000	.00000	0 %	*



Analysis

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

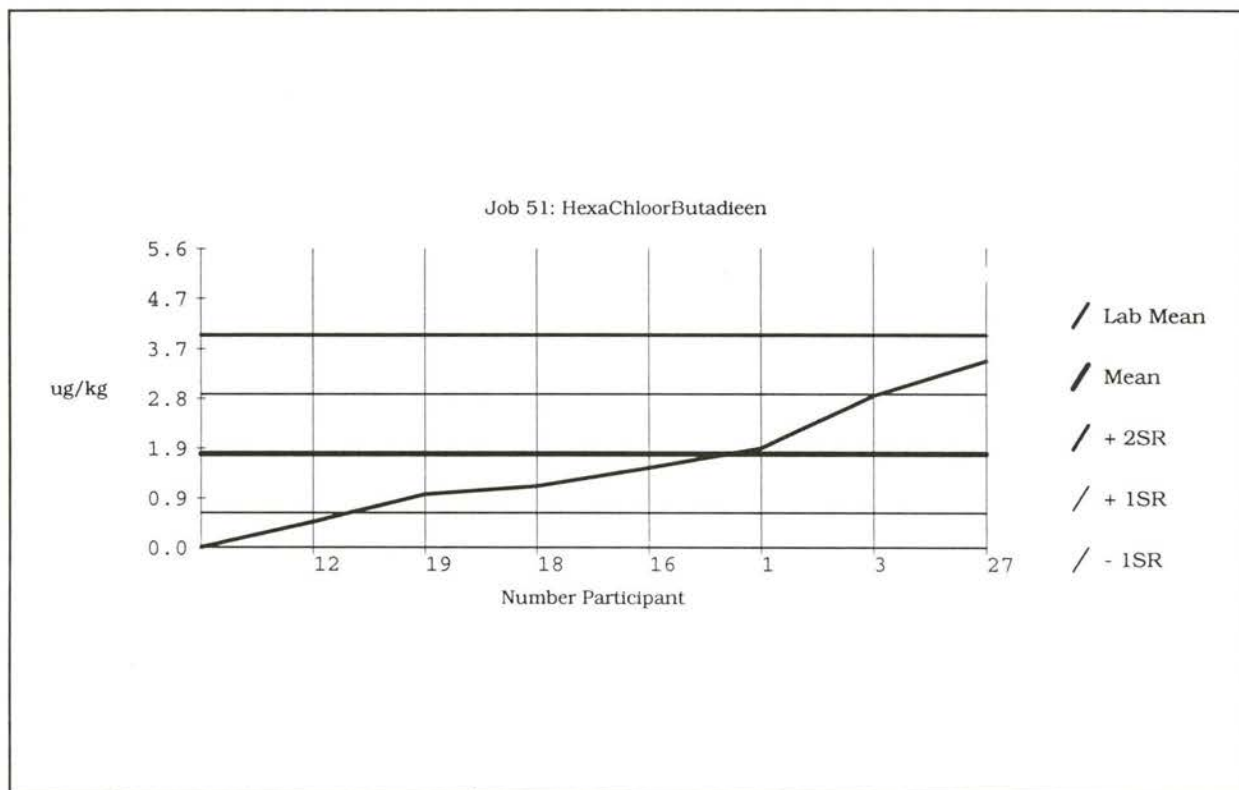
7 laboratory observations

Maximum absolute difference from Normal distribution: 0.17843. Critical value: 0.57600. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 0
2. General Mean = 1.76586
3. Repeatability
 - 3.1 Standard deviation $S_r = .43148$
 - 3.2 Coefficient of variation = 24 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = 1.11126$
 - 4.2 Coefficient of variation = 63 %



Job Classification

Lab	Mean	Clas	Ext	Clean	Det	Procedure
7	.00000	G	?	?	?	?
13	.00000	G	-	-	-	-
24	.00000	G	-	-	-	-
8	.00000	G	?	?	?	?
14	.00000	G	-	-	-	-
25	.00000	G	LH	-	GDE	NEN 5734
2	.00000	G	-	-	-	-
9	.00000	G	-	-	-	-
15	.00000	G	?	?	?	?
20	.00000	G	-	-	-	-
26	.00000	G	-	-	-	-
10	.00000	G	-	-	-	-
21	.00000	G	LP	-	GSM	HUIS
4	.00000	G	-	-	-	-
11	.00000	G	-	-	-	-
17	.00000	G	LE	SC	GDE	HUIS
22	.00000	G	-	-	-	-
28	.00000	G	-	-	-	-
5	.00000	G	-	-	-	-
23	.00000	G	-	-	-	-
29	.00000	G	LE	LLSC	GDE	HUIS
6	.00000	G	-	-	-	-
12	.49000	B	Z	Z	GDE	HUIS
19	1.00000	A	LE	C	GDE	G-NEN 5734
18	1.15500	A	LA	C	GDE	HUIS
16	1.50000	A	LE	SC	GDE	HUIS
1	1.86600	A	-	-	-	-
3	2.85000	B	-	-	GDE	NEN 5734
27	3.50000	B	-	-	-	HUIS

General Mean = 1.76586
Between lab standard deviation SL = 1.02407
Coefficient of variation = 58 %
Number of laboratories = 7

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

Job 53 : 99093, 99097

HexachloorEthaan, HCEa in ug/kg Sediment (Lake)

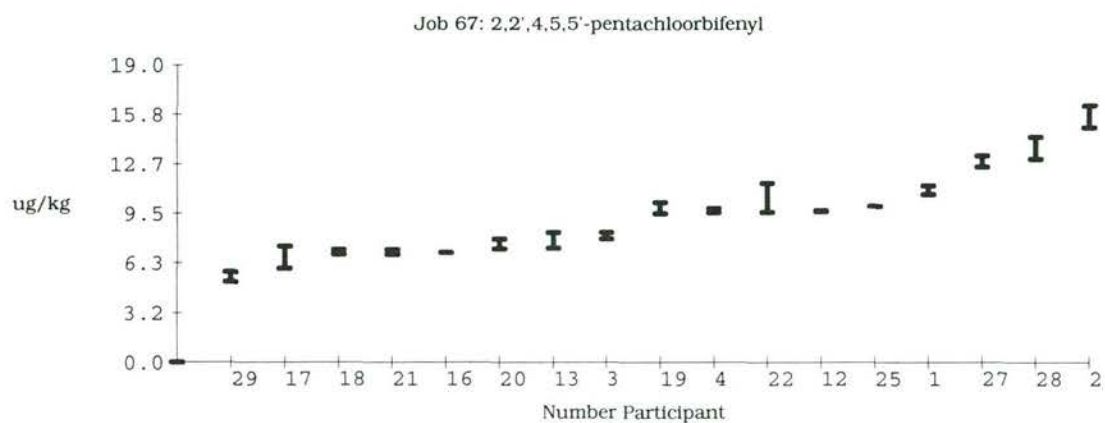
Lab *	X1 *	X2 *	Average *	%Variance *
1 *	*	*	.00000 *	0 % *
2 *	*	*	.00000 *	0 % *
3 *	100.00000 *	100.00000 *	.00000 *	0 % *
4 *	*	*	.00000 *	0 % *
5 *	*	*	.00000 *	0 % *
6 *	*	*	.00000 *	0 % *
7 *	*	*	.00000 *	0 % *
8 *	*	*	.00000 *	0 % *
9 *	*	*	.00000 *	0 % *
10 *	*	*	.00000 *	0 % *
11 *	*	*	.00000 *	0 % *
12 *	*	*	.00000 *	0 % *
13 *	*	*	.00000 *	0 % *
14 *	*	*	.00000 *	0 % *
15 *	*	*	.00000 *	0 % *
16 *	*	*	.00000 *	0 % *
17 *	*	*	.00000 *	0 % *
18 *	*	*	.00000 *	0 % *
19 *	*	*	.00000 *	0 % *
20 *	*	*	.00000 *	0 % *
21 *	1.00000 *	1.00000 *	.00000 *	0 % *
22 *	*	*	.00000 *	0 % *
23 *	*	*	.00000 *	0 % *
24 *	*	*	.00000 *	0 % *
25 *	1.00000 *	1.00000 *	.00000 *	0 % *
26 *	*	*	.00000 *	0 % *
27 *	*	*	.00000 *	0 % *
28 *	20.00000 *	20.00000 *	.00000 *	0 % *
29 *	*	*	.00000 *	0 % *

Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *
7 *	.00000 *	N *	? *	? *	? *	? *
13 *	.00000 *	N *	- *	- *	- *	- *
19 *	.00000 *	N *	- *	- *	- *	- *
24 *	.00000 *	N *	- *	- *	- *	- *
1 *	.00000 *	N *	- *	- *	- *	- *
8 *	.00000 *	N *	? *	? *	? *	? *
14 *	.00000 *	N *	- *	- *	- *	- *
25 *	.00000 *	N *	LH *	- *	GDE *	NEN 5734
2 *	.00000 *	N *	- *	- *	- *	- *
9 *	.00000 *	N *	- *	- *	- *	- *
15 *	.00000 *	N *	? *	? *	? *	? *
20 *	.00000 *	N *	- *	- *	- *	- *
26 *	.00000 *	N *	- *	- *	- *	- *
3 *	.00000 *	N *	- *	- *	GDE *	NEN 5734
10 *	.00000 *	N *	- *	- *	- *	- *
16 *	.00000 *	N *	- *	- *	- *	- *
21 *	.00000 *	N *	LP *	- *	GSM *	HUIS
27 *	.00000 *	N *	- *	- *	- *	- *
4 *	.00000 *	N *	- *	- *	- *	- *
11 *	.00000 *	N *	- *	- *	- *	- *
17 *	.00000 *	N *	- *	- *	- *	- *
22 *	.00000 *	N *	- *	- *	- *	- *
28 *	.00000 *	N *	- *	- *	- *	NEN 5734
5 *	.00000 *	N *	- *	- *	- *	- *
12 *	.00000 *	N *	- *	- *	- *	- *
18 *	.00000 *	N *	- *	- *	- *	- *
23 *	.00000 *	N *	- *	- *	- *	- *
29 *	.00000 *	N *	- *	- *	- *	- *
6 *	.00000 *	N *	- *	- *	- *	- *

Job 67 : 99093, 99097
 2,2',4,5,5'-pentachloorbifenyl, PCB101 in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	10.34000	11.13000	10.73500	5.2 %	*
2 *	14.00000	16.00000	15.00000	9.4 %	*
3 *	8.18000	7.62000	7.90000	5.0 %	*
4 *	9.74000	9.39000	9.56500	2.6 %	*
5 *			.00000	0 %	- N.V.
6 *			.00000	0 %	- N.V.
7 *			.00000	0 %	- N.V.
8 *			.00000	0 %	- N.V.
9 *			.00000	0 %	- N.V.
10 *			.00000	0 %	- N.V.
11 *			.00000	0 %	- N.V.
12 *	9.68000	9.58000	9.63000	.7 %	*
13 *	6.60000	8.00000	7.30000	13.6 %	*
14 *			.00000	0 %	- N.V.
15 *			.00000	0 %	- N.V.
16 *	7.00000	7.00000	7.00000	.0 %	*
17 *	7.00000	5.00000	6.00000	23.6 %	*
18 *	6.70000	7.10000	6.90000	4.1 %	*
19 *	9.00000	10.00000	9.50000	7.4 %	*
20 *	7.70000	6.80000	7.25000	8.8 %	*
21 *	6.70000	7.10000	6.90000	4.1 %	*
22 *	10.90000	8.30000	9.60000	19.2 %	*
23 *			.00000	0 %	- N.V.
24 *			.00000	0 %	- N.V.
25 *	10.00000	10.00000	10.00000	.0 %	*
26 *			.00000	0 %	- N.V.
27 *	12.00000	13.00000	12.50000	5.7 %	*
28 *	12.00000	14.00000	13.00000	10.9 %	*
29 *	4.70000	5.60000	5.15000	12.4 %	*



Analysis

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

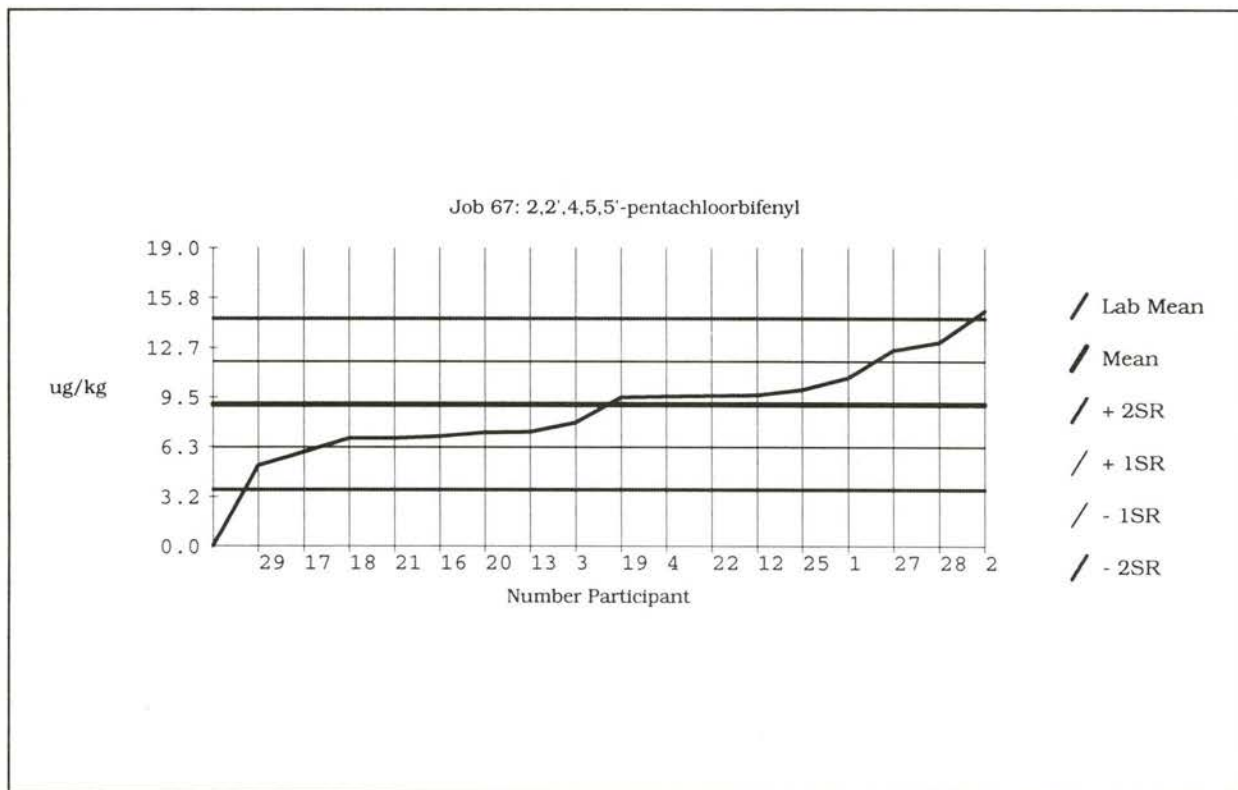
17 laboratory observations

Maximum absolute difference from Normal distribution: 0.15714. Critical value: 0.38100. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 0
2. General Mean = 9.05471
3. Repeatability
 - 3.1 Standard deviation $S_r = .86993$
 - 3.2 Coefficient of variation = 10 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = 2.73170$
 - 4.2 Coefficient of variation = 30 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.000000	G	* ?	* ?	* ?	* ?	*
24 *	.000000	G	* -	* -	* -	* -	*
8 *	.000000	G	* ?	* ?	* ?	* ?	*
14 *	.000000	G	* -	* -	* -	* -	*
9 *	.000000	G	* -	* -	* -	* -	*
15 *	.000000	G	* ?	* ?	* ?	* ?	*
26 *	.000000	G	* -	* -	* -	* -	*
10 *	.000000	G	* -	* -	* -	* -	*
11 *	.000000	G	* -	* -	* -	* -	*
5 *	.000000	G	* -	* -	* -	* -	*
23 *	.000000	G	* -	* -	* -	* -	*
6 *	.000000	G	* ?	* ?	* ?	* ?	*
29 *	5.150000	B	* LE	* LLSC	* GDE	* HUIS	*
17 *	6.000000	B	* LE	* SC	* GDE	* HUIS	*
21 *	6.900000	A	* LP	* -	* GSM	* HUIS	*
18 *	6.900000	A	* LA	* C	* GDE	* HUIS	*
16 *	7.000000	A	* LE	* SC	* GDE	* HUIS	*
20 *	7.250000	A	* LE	* SC	* GDE	* A-O-NEN 5718	*
13 *	7.300000	A	* LA	* -	* GDE	* NEN 5718/6406	*
3 *	7.900000	A	* -	* -	* GDE	* NEN 5734	*
19 *	9.500000	A	* LE	* C	* GDE	* G-NEN 5734	*
4 *	9.565000	A	* -	* -	* -	* -	*
22 *	9.600000	A	* -	* -	* -	* -	*
12 *	9.630000	A	* Z	* Z	* GDE	* HUIS	*
25 *	10.000000	A	* LH	* -	* GDE	* NEN 5734	*
1 *	10.735000	A	* S	* -	* GSM	* HUIS	*
27 *	12.500000	B	* -	* -	* -	* HUIS	*
28 *	13.000000	B	* -	* -	* -	* -	*
2 *	15.000000	C	* -	* -	* -	* -	*

General Mean = 9.05471

Between lab standard deviation SL = 2.58948

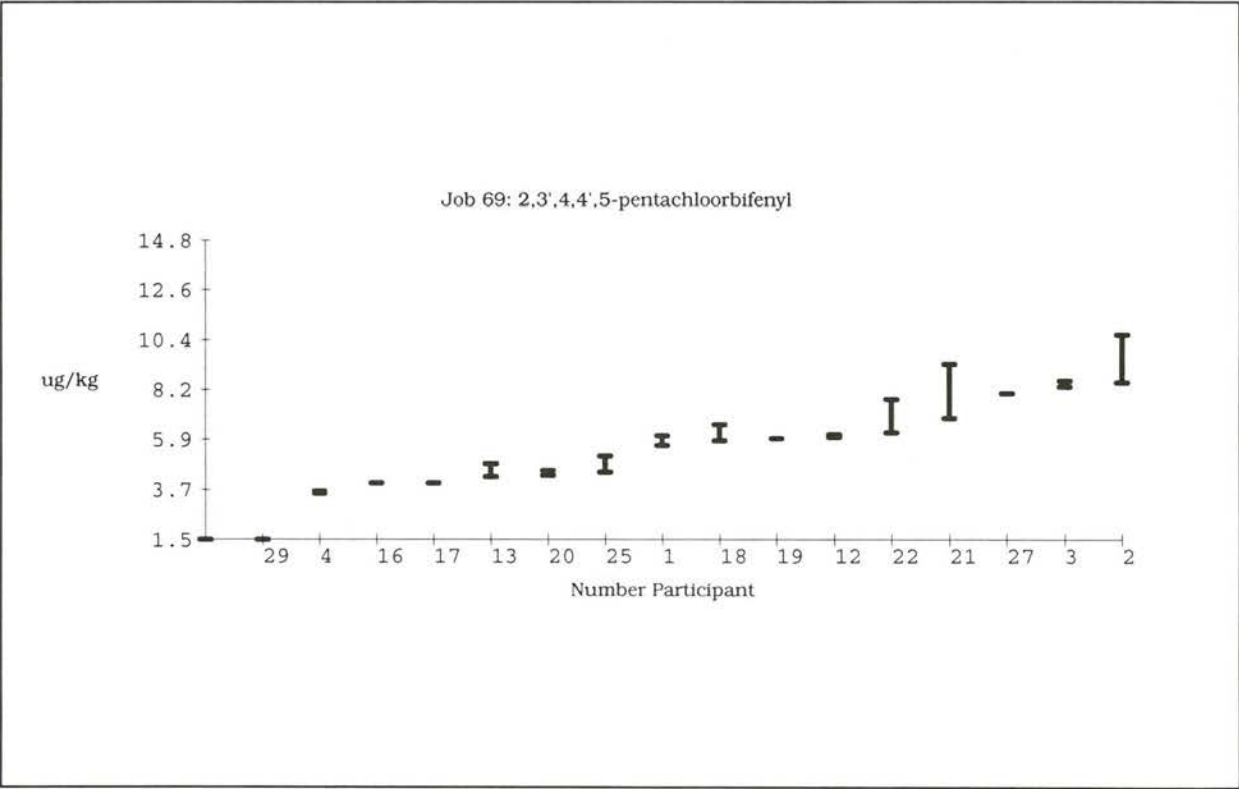
Coefficient of variation = 29 %

Number of laboratories = 17

A: Number of laboratories with	Z	-scores between 0 and 1	; 12
B: Number of laboratories with	Z	-scores between 1 and 2	; 4
C: Number of laboratories with	Z	-scores between 2 and 3	; 1
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 69 : 99093, 99097
2,3',4,4',5-pentachloorbifenyl, PCB118 in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	5.37100 *	5.98300 *	5.67700 *	7.6 % *	
2 *	7.00000 *	10.00000 *	8.50000 *	25.0 % *	
3 *	8.49000 *	8.13000 *	8.31000 *	3.1 % *	
4 *	3.46000 *	3.62000 *	3.54000 *	3.2 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *			.00000 *	0 % *	- N.V.
12 *	6.13000 *	5.97000 *	6.05000 *	1.9 % *	
13 *	3.90000 *	4.70000 *	4.30000 *	13.2 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	4.00000 *	4.00000 *	4.00000 *	.0 % *	
17 *	4.00000 *	4.00000 *	4.00000 *	.0 % *	
18 *	6.40000 *	5.40000 *	5.90000 *	12.0 % *	
19 *	6.00000 *	6.00000 *	6.00000 *	.0 % *	
20 *	4.20000 *	4.50000 *	4.35000 *	4.9 % *	
21 *	5.20000 *	8.60000 *	6.90000 *	34.8 % *	
22 *	7.30000 *	5.20000 *	6.25000 *	23.8 % *	
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	5.00000 *	4.00000 *	4.50000 *	15.7 % *	
26 *			.00000 *	0 % *	- N.V.
27 *	8.00000 *	8.00000 *	8.00000 *	.0 % *	
28 *	10.00000 *	10.00000 *	.00000 *	0 % *	< N.V.
29 *	1.50000 *	1.50000 *	1.50000 *	.0 % *	



Analysis

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

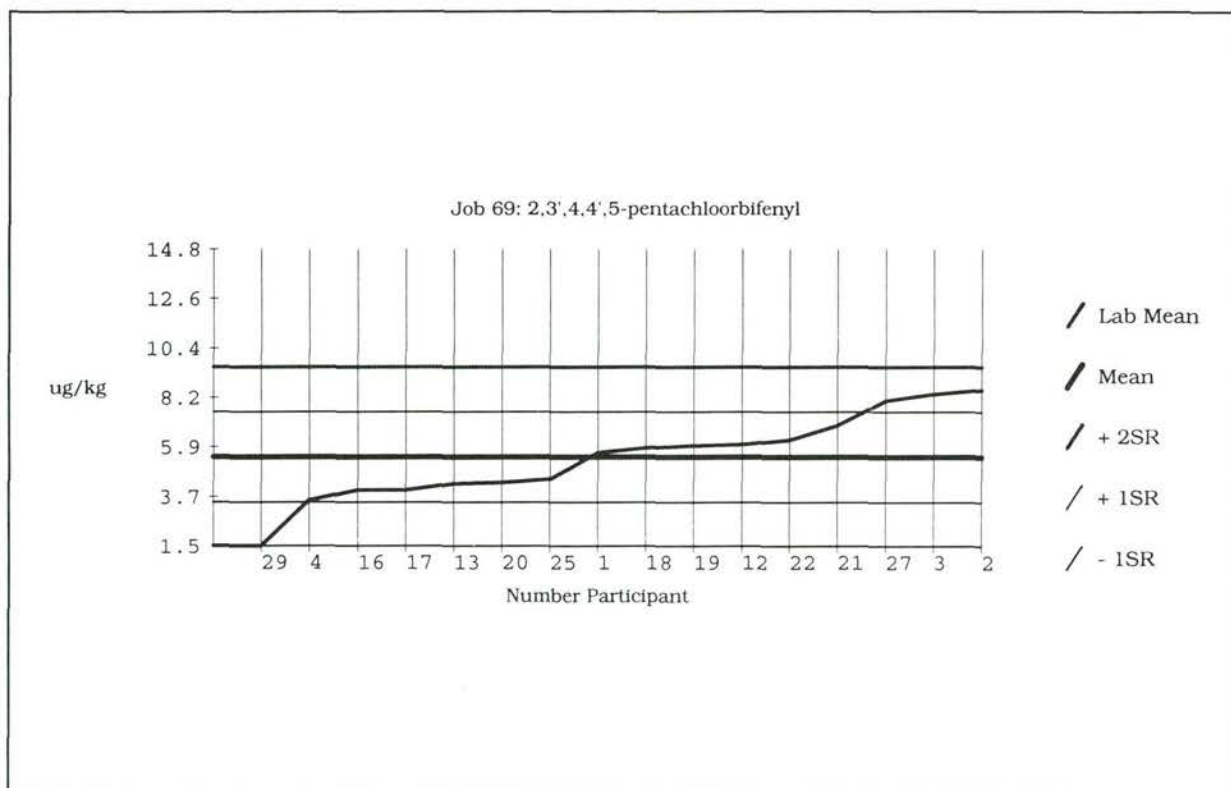
16 laboratory observations

Maximum absolute difference from Normal distribution: 0.13597. Critical value: 0.39200. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 0
2. General Mean = 5.48606
3. Repeatability
 - 3.1 Standard deviation $S_r = .93967$
 - 3.2 Coefficient of variation = 17 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = 2.01884$
 - 4.2 Coefficient of variation = 37 %



Job Classification

Lab	Mean	Clas	Ext	Clean	Det	Procedure
7	.00000	G	?	?	?	?
24	.00000	G	-	-	-	-
8	.00000	G	?	?	?	?
14	.00000	G	-	-	-	-
9	.00000	G	-	-	-	-
15	.00000	G	?	?	?	?
26	.00000	G	-	-	-	-
10	.00000	G	-	-	-	-
11	.00000	G	-	-	-	-
28	.00000	G	-	-	-	-
5	.00000	G	-	-	-	-
23	.00000	G	-	-	-	-
6	.00000	G	?	?	?	?
29	1.50000	C	LE	LLSC	GDE	HUIS
4	3.54000	B	-	-	-	-
16	4.00000	A	LE	SC	GDE	HUIS
17	4.00000	A	LE	SC	GDE	HUIS
13	4.30000	A	LA	-	GDE	NEN 5718/6406
20	4.35000	A	LE	SC	GDE	A-O-NEN 5718
25	4.50000	A	LH	-	GDE	NEN 5734
1	5.67700	A	-	-	-	-
18	5.90000	A	LA	C	GDE	HUIS
19	6.00000	A	LE	C	GDE	G-NEN 5734
12	6.05000	A	Z	Z	GDE	HUIS
22	6.25000	A	-	-	-	-
21	6.90000	A	LP	-	GSM	HUIS
27	8.00000	B	-	-	-	HUIS
3	8.31000	B	-	-	GDE	NEN 5734
2	8.50000	B	-	-	-	-

General Mean = 5.48606

Between lab standard deviation SL = 1.78682

Coefficient of variation = 33 %

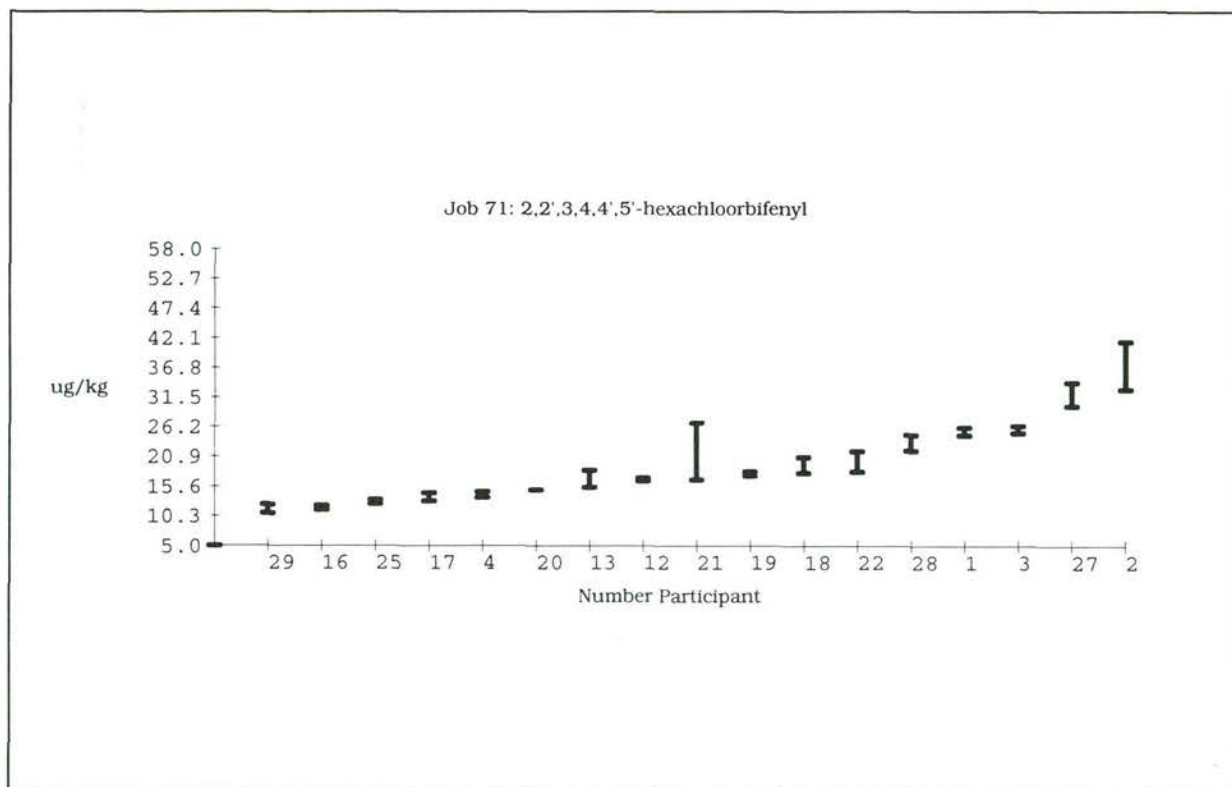
Number of laboratories = 16

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

Job 71 : 99093, 99097

2,2',3,4,4',5'-hexachloorbifeny1, PCB138 in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	23.86000	25.75000	24.80500	5.4 %	*
2 *	27.00000	39.00000	33.00000	25.7 %	*
3 *	26.06000	24.28000	25.17000	5.0 %	*
4 *	14.34000	12.91000	13.62500	7.4 %	*
5 *			.00000	0 %	- N.V.
6 *			.00000	0 %	- N.V.
7 *			.00000	0 %	- N.V.
8 *			.00000	0 %	- N.V.
9 *			.00000	0 %	- N.V.
10 *			.00000	0 %	- N.V.
11 *			.00000	0 %	- N.V.
12 *	16.96000	16.20000	16.58000	3.2 %	*
13 *	13.30000	17.60000	15.45000	19.7 %	*
14 *			.00000	0 %	- N.V.
15 *			.00000	0 %	- N.V.
16 *	12.00000	11.00000	11.50000	6.1 %	*
17 *	12.00000	14.00000	13.00000	10.9 %	*
18 *	20.00000	16.00000	18.00000	15.7 %	*
19 *	17.00000	18.00000	17.50000	4.0 %	*
20 *	15.00000	15.00000	15.00000	.0 %	*
21 *	24.00000	9.60000	16.80000	60.6 %	*
22 *	20.80000	15.60000	18.20000	20.2 %	*
23 *			.00000	0 %	- N.V.
24 *			.00000	0 %	- N.V.
25 *	12.00000	13.00000	12.50000	5.7 %	*
26 *			.00000	0 %	- N.V.
27 *	27.00000	33.00000	30.00000	14.1 %	*
28 *	20.00000	24.00000	22.00000	12.9 %	*
29 *	9.80000	11.90000	10.85000	13.7 %	*



Analysis

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

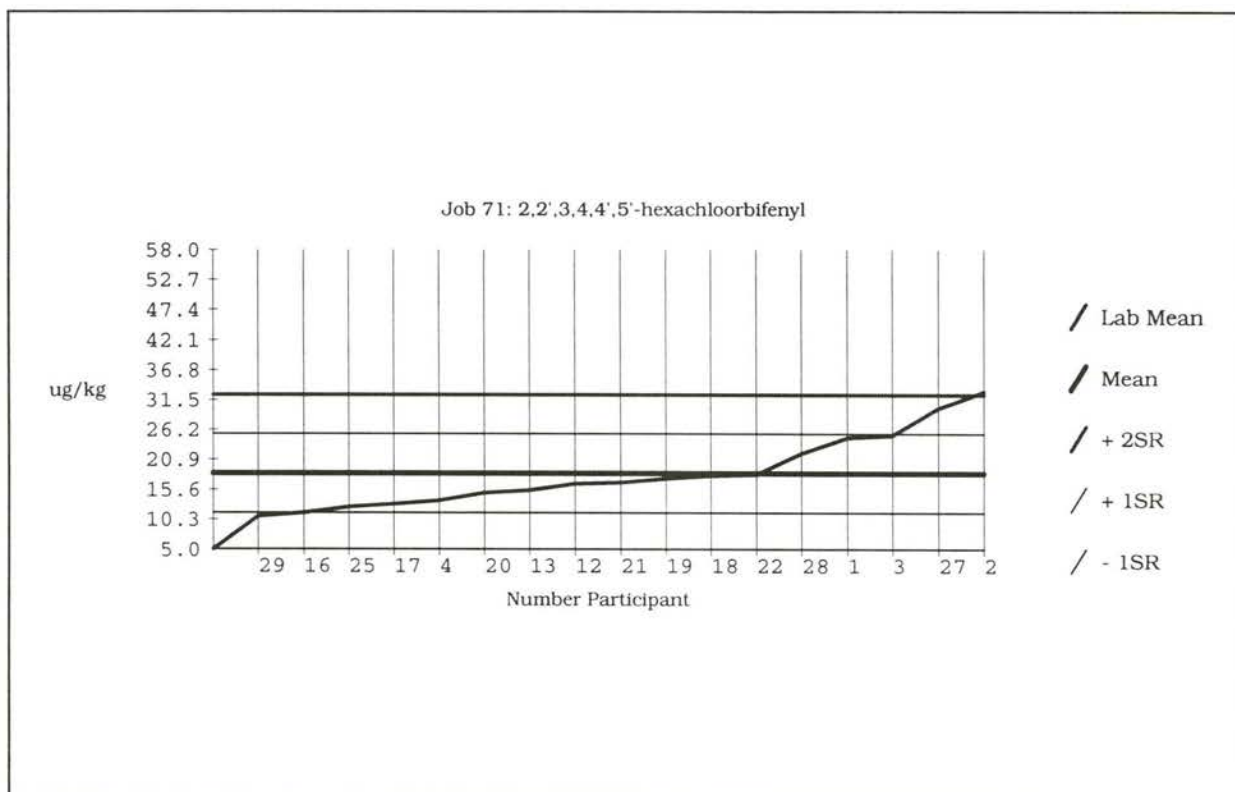
17 laboratory observations

Maximum absolute difference from Normal distribution: 0.22184. Critical value: 0.38100. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 0
2. General Mean = 18.46941
3. Repeatability
 - 3.1 Standard deviation $S_r = 3.77945$
 - 3.2 Coefficient of variation = 20 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = 6.98327$
 - 4.2 Coefficient of variation = 38 %



Job Classification

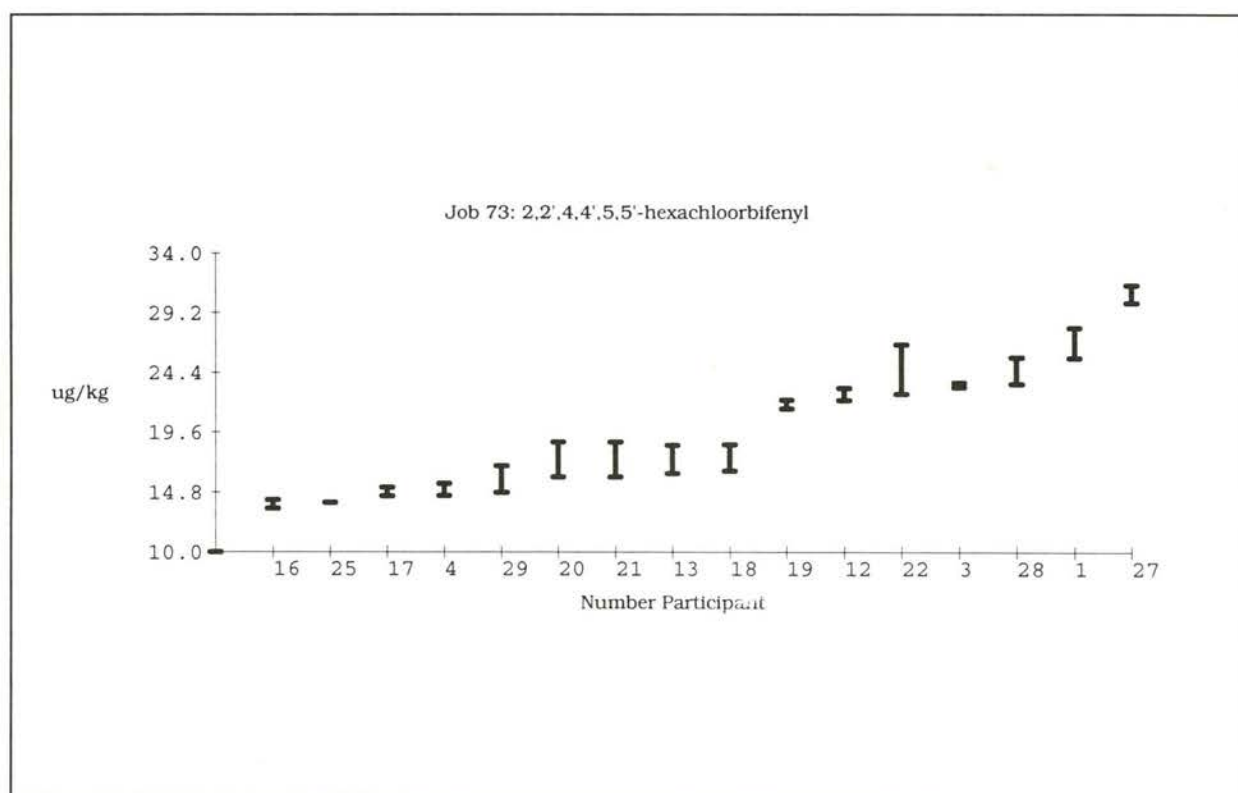
Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000	G	?	?	?	?	*
24 *	.00000	G	-	-	-	-	*
8 *	.00000	G	?	?	?	?	*
14 *	.00000	G	-	-	-	-	*
9 *	.00000	G	-	-	-	-	*
15 *	.00000	G	?	?	?	?	*
26 *	.00000	G	-	-	-	-	*
10 *	.00000	G	-	-	-	-	*
11 *	.00000	G	-	-	-	-	*
5 *	.00000	G	-	-	-	-	*
23 *	.00000	G	-	-	-	-	*
6 *	.00000	G	*
29 *	10.85000	B	LE	LLSC	GDE	HUIS	*
16 *	11.50000	B	LE	SC	GDE	HUIS	*
25 *	12.50000	A	LH	-	GDE	NEN 5734	*
17 *	13.00000	A	LE	SC	GDE	HUIS	*
4 *	13.62500	A	-	-	-	-	*
20 *	15.00000	A	LE	SC	GDE	A-O-NEN 5718	*
13 *	15.45000	A	LA	-	GDE	NEN 5718/6406	*
12 *	16.58000	A	Z	Z	GDE	HUIS	*
21 *	16.80000	A	LP	-	GSM	HUIS	*
19 *	17.50000	A	LE	C	GDE	G-NEN 5734	*
18 *	18.00000	A	LA	C	GDE	HUIS	*
22 *	18.20000	A	-	-	-	-	*
28 *	22.00000	A	-	-	-	NEN 5734	*
1 *	24.80500	A	-	-	-	-	*
3 *	25.17000	B	-	-	GDE	NEN 5734	*
27 *	30.00000	B	-	-	-	HUIS	*
2 *	33.00000	C	-	-	-	-	*

General Mean = 18.46941
Between lab standard deviation SL = 5.87212
Coefficient of variation = 32 %
Number of laboratories = 17

A: Number of laboratories with	Z	-scores between 0 and 1	; 12
B: Number of laboratories with	Z	-scores between 1 and 2	; 4
C: Number of laboratories with	Z	-scores between 2 and 3	; 1
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 73 : 99093, 99097
 2,2',4,4',5,5'-hexachloorbifenyl, PCB153 in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	23.85000	27.29000	25.57000	9.5 %	*
2 *	29.00000	41.00000	35.00000	24.2 %	*
3 *	23.01000	23.49000	23.25000	1.5 %	*
4 *	15.21000	13.82000	14.51500	6.8 %	*
5 *			.00000	0 %	* - N.V.
6 *			.00000	0 %	* - N.V.
7 *			.00000	0 %	* - N.V.
8 *			.00000	0 %	* - N.V.
9 *			.00000	0 %	* - N.V.
10 *			.00000	0 %	* - N.V.
11 *			.00000	0 %	* - N.V.
12 *	22.86000	21.49000	22.17500	4.4 %	*
13 *	14.70000	17.90000	16.30000	13.9 %	*
14 *			.00000	0 %	* - N.V.
15 *			.00000	0 %	* - N.V.
16 *	14.00000	13.00000	13.50000	5.2 %	*
17 *	14.00000	15.00000	14.50000	4.9 %	*
18 *	18.00000	15.00000	16.50000	12.9 %	*
19 *	21.00000	22.00000	21.50000	3.3 %	*
20 *	18.00000	14.00000	16.00000	17.7 %	*
21 *	18.00000	14.00000	16.00000	17.7 %	*
22 *	25.50000	19.90000	22.70000	17.4 %	*
23 *			.00000	0 %	* - N.V.
24 *			.00000	0 %	* - N.V.
25 *	14.00000	14.00000	14.00000	.0 %	*
26 *			.00000	0 %	* - N.V.
27 *	31.00000	29.00000	30.00000	4.7 %	*
28 *	22.00000	25.00000	23.50000	9.0 %	*
29 *	13.30000	16.30000	14.80000	14.3 %	*



Analysis

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

17 laboratory observations

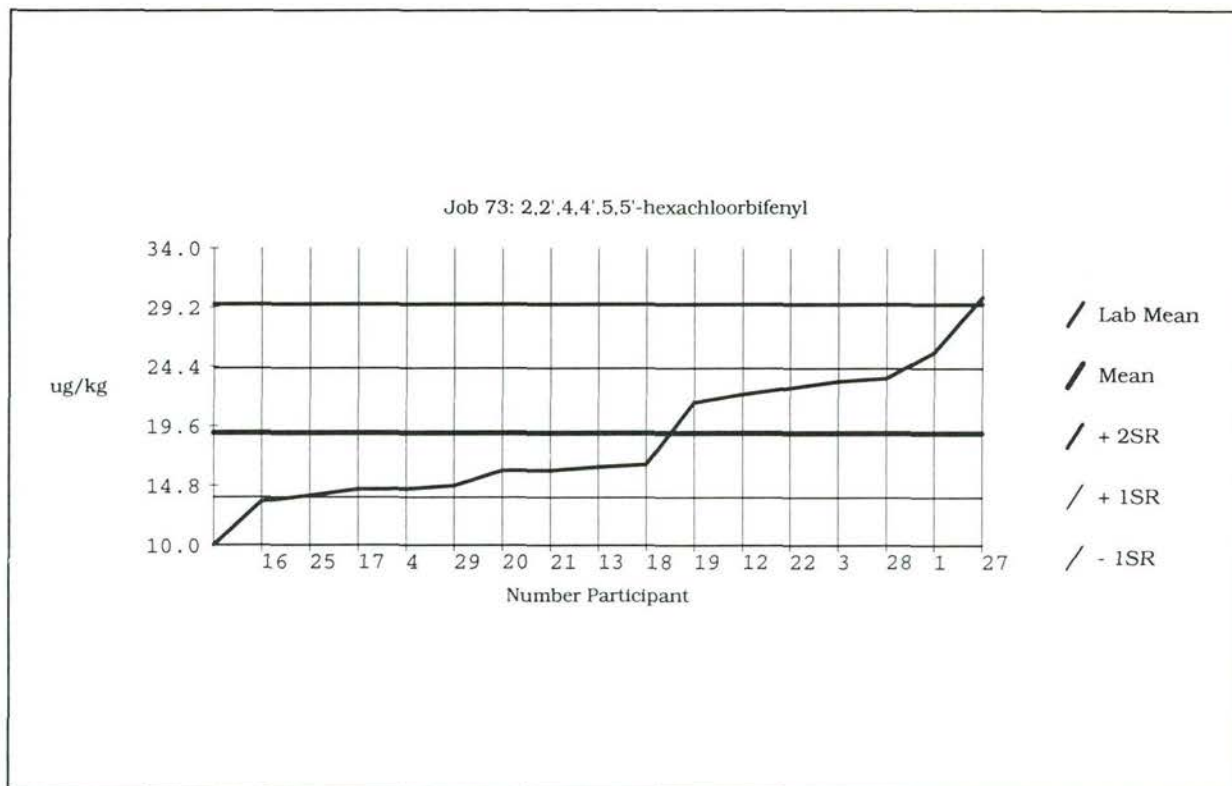
Maximum absolute difference from Normal distribution: 0.24167. Critical value: 0.38100. KS-test passed

COCHRAN; 1 % ; replicas: 2

Cyc *	Lab *	Average *	Variance *	Result *	Value
1 *	2 *	35.00000 *	8.48528 *	.53837 *	.53233

Summary

1. Eliminations due to
 - 1.1 Repeatability = 1
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 0
2. General Mean = 19.05063
3. Repeatability
 - 3.1 Standard deviation $S_r = 1.96431$
 - 3.2 Coefficient of variation = 10 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = 5.20379$
 - 4.2 Coefficient of variation = 27 %



Job Classification

Lab	*	Mean	*	Clas	*	Ext	*	Clean	*	Det	*	Procedure	*	
7	*	.00000	*	G	*	?	*	?	*	?	*	?	*	*
24	*	.00000	*	G	*	-	*	-	*	-	*	-	*	*
8	*	.00000	*	G	*	?	*	?	*	?	*	?	*	*
14	*	.00000	*	G	*	-	*	-	*	-	*	-	*	*
9	*	.00000	*	G	*	-	*	-	*	-	*	-	*	*
15	*	.00000	*	G	*	?	*	?	*	?	*	?	*	*
26	*	.00000	*	G	*	-	*	-	*	-	*	-	*	*
10	*	.00000	*	G	*	-	*	-	*	-	*	-	*	*
11	*	.00000	*	G	*	-	*	-	*	-	*	-	*	*
5	*	.00000	*	G	*	-	*	-	*	-	*	-	*	*
23	*	.00000	*	G	*	-	*	-	*	-	*	-	*	*
6	*	.00000	*	G	*	.	*	.	*	.	*	.	*	*
16	*	13.50000	*	B	*	LE	*	SC	*	GDE	*	HUIS	*	*
25	*	14.00000	*	B	*	LH	*	-	*	GDE	*	NEN 5734	*	*
17	*	14.50000	*	A	*	LE	*	SC	*	GDE	*	HUIS	*	*
4	*	14.51500	*	A	*	-	*	-	*	-	*	-	*	*
29	*	14.80000	*	A	*	LE	*	LLSC	*	GDE	*	HUIS	*	*
20	*	16.00000	*	A	*	LE	*	SC	*	GDE	*	A-O-NEN 5718	*	*
21	*	16.00000	*	A	*	LP	*	-	*	GSM	*	HUIS	*	*
13	*	16.30000	*	A	*	LA	*	-	*	GDE	*	NEN 5718/6406	*	*
18	*	16.50000	*	A	*	LA	*	C	*	GDE	*	HUIS	*	*
19	*	21.50000	*	A	*	LE	*	C	*	GDE	*	G-NEN 5734	*	*
12	*	22.17500	*	A	*	Z	*	Z	*	GDE	*	HUIS	*	*
22	*	22.70000	*	A	*	-	*	-	*	-	*	-	*	*
3	*	23.25000	*	A	*	-	*	-	*	GDE	*	NEN 5734	*	*
28	*	23.50000	*	A	*	-	*	-	*	-	*	NEN 5734	*	*
1	*	25.57000	*	B	*	-	*	-	*	-	*	-	*	*
27	*	30.00000	*	C	*	-	*	-	*	-	*	HUIS	*	*
2	*	35.00000	*	W	*	-	*	-	*	-	*	-	*	*

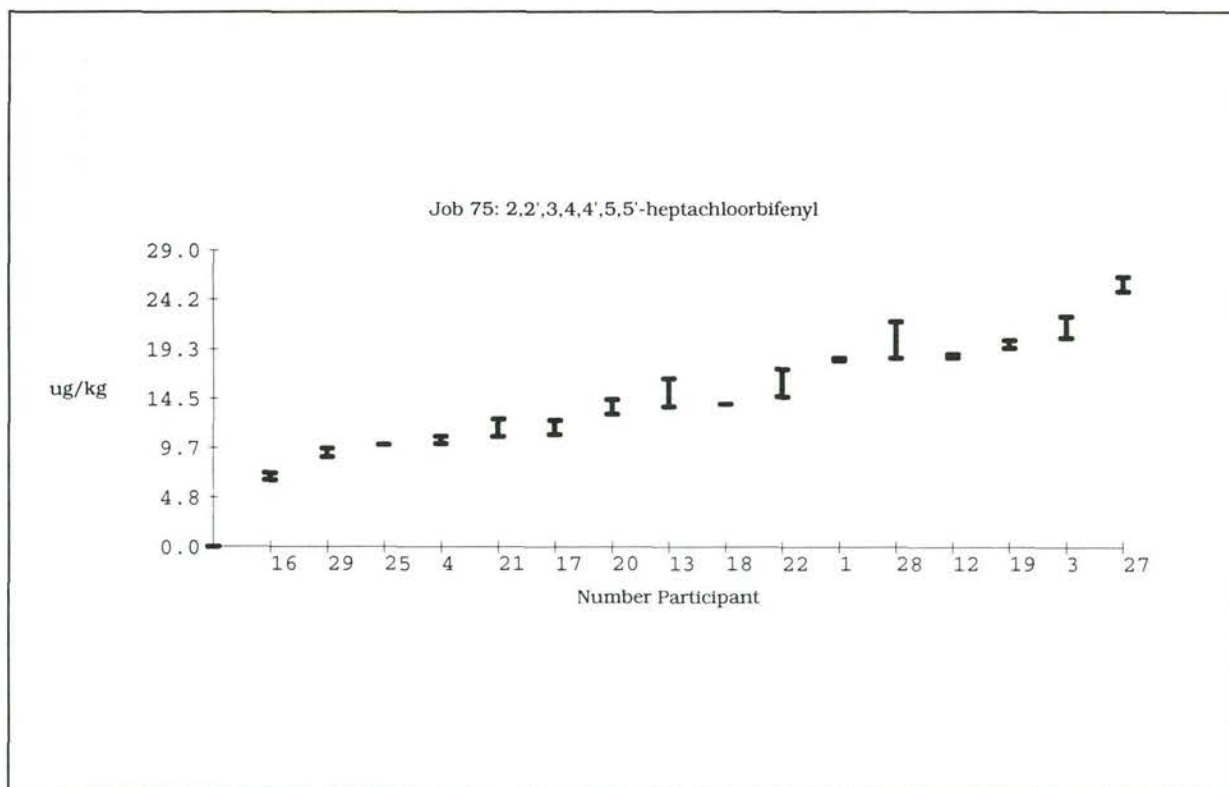
General Mean = 19.05063
Between lab standard deviation SL = 4.81881
Coefficient of variation = 25 %
Number of laboratories = 16

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

Job 75 : 99093, 99097

2,2',3,4,4',5,5'-heptachloorbifenyl, PCB180 in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	18.39000	18.03000	18.21000	1.4 %	*
2 *	21.00000	39.00000	30.00000	42.4 %	*
3 *	19.03000	21.96000	20.49500	10.1 %	*
4 *	10.62000	9.61000	10.11500	7.1 %	*
5 *			.00000	0 %	- N.V.
6 *			.00000	0 %	- N.V.
7 *			.00000	0 %	- N.V.
8 *			.00000	0 %	- N.V.
9 *			.00000	0 %	- N.V.
10 *			.00000	0 %	- N.V.
11 *			.00000	0 %	- N.V.
12 *	18.79000	18.31000	18.55000	1.8 %	*
13 *	11.80000	15.70000	13.75000	20.1 %	*
14 *			.00000	0 %	- N.V.
15 *			.00000	0 %	- N.V.
16 *	6.00000	7.00000	6.50000	10.9 %	*
17 *	10.00000	12.00000	11.00000	12.9 %	*
18 *	14.00000	14.00000	14.00000	.0 %	*
19 *	19.00000	20.00000	19.50000	3.6 %	*
20 *	14.00000	12.00000	13.00000	10.9 %	*
21 *	12.00000	9.60000	10.80000	15.7 %	*
22 *	16.60000	12.80000	14.70000	18.3 %	*
23 *			.00000	0 %	- N.V.
24 *			.00000	0 %	- N.V.
25 *	10.00000	10.00000	10.00000	.0 %	*
26 *			.00000	0 %	- N.V.
27 *	26.00000	24.00000	25.00000	5.7 %	*
28 *	16.00000	21.00000	18.50000	19.1 %	*
29 *	8.20000	9.40000	8.80000	9.6 %	*



Analysis

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

17 laboratory observations

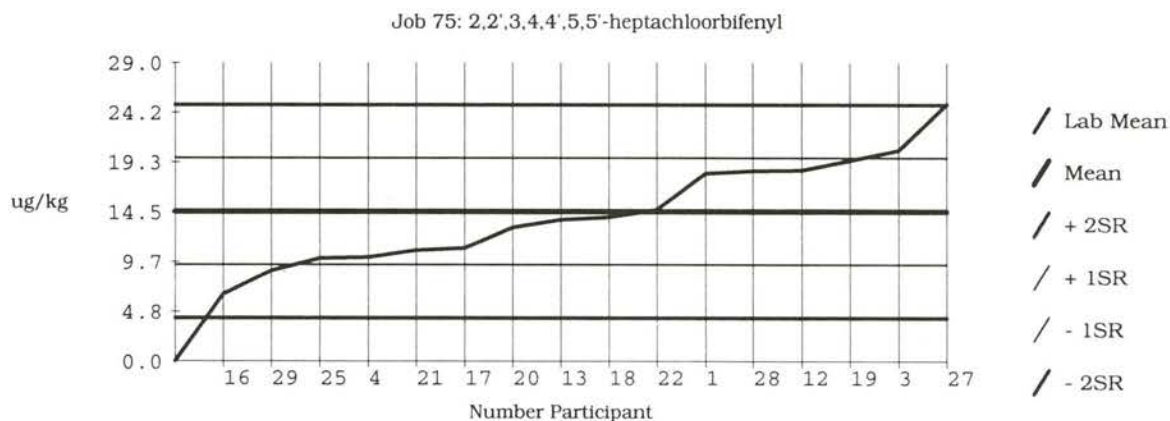
Maximum absolute difference from Normal distribution: 0.13600. Critical value: 0.38100. KS-test passed

COCHRAN; 1 % ; replicas: 2

Cyc *	Lab *	Average *	Variance *	Result *	Value
1 *	2 *	30.00000 *	12.72792 *	.79060 *	.53233

Summary

1. Eliminations due to
 - 1.1 Repeatability = 1
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 0
2. General Mean = 14.55750
3. Repeatability
 - 3.1 Standard deviation $S_r = 1.63760$
 - 3.2 Coefficient of variation = 11 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = 5.17962$
 - 4.2 Coefficient of variation = 36 %



Job Classification

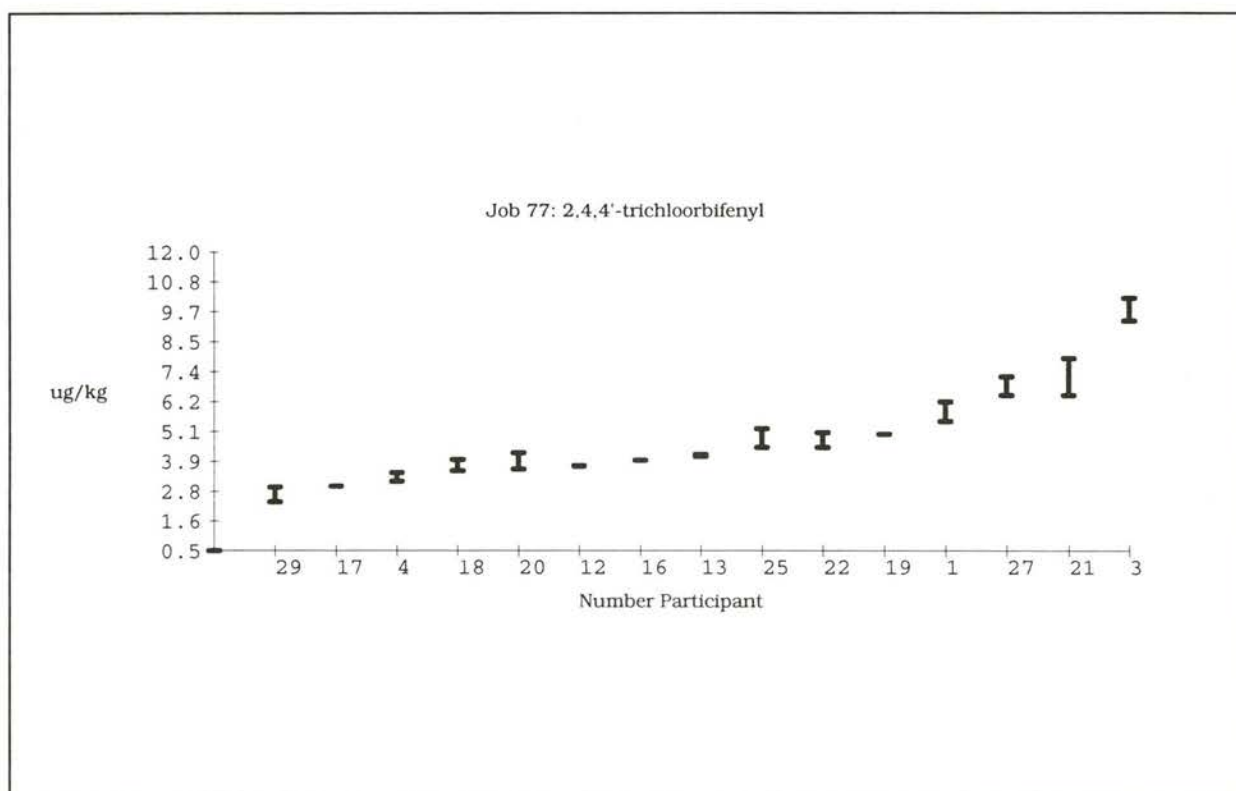
Lab	Mean	Clas	Ext	Clean	Det	Procedure
7	.00000	G	?	?	?	?
24	.00000	G	-	-	-	-
8	.00000	G	?	?	?	?
14	.00000	G	-	-	-	-
9	.00000	G	-	-	-	-
15	.00000	G	?	?	?	?
26	.00000	G	-	-	-	-
10	.00000	G	-	-	-	-
11	.00000	G	-	-	-	-
5	.00000	G	-	-	-	-
23	.00000	G	-	-	-	-
6	.00000	G
16	6.50000	B	LE	SC	GDE	HUIS
29	8.80000	B	LE	LLSC	GDE	HUIS
25	10.00000	A	LH	-	GDE	NEN 5734
4	10.11500	A	-	-	-	-
21	10.80000	A	LP	-	GSM	HUIS
17	11.00000	A	LE	SC	GDE	HUIS
20	13.00000	A	LE	SC	GDE	A-O-NEN 5718
13	13.75000	A	LA	-	GDE	NEN 5718/6406
18	14.00000	A	LA	C	GDE	HUIS
22	14.70000	A	-	-	-	-
1	18.21000	A	-	-	-	-
28	18.50000	A	-	-	-	NEN 5734
12	18.55000	A	Z	Z	GDE	HUIS
19	19.50000	A	LE	C	GDE	G-NEN 5734
3	20.49500	B	-	-	GDE	NEN 5734
27	25.00000	C	-	-	-	HUIS
2	30.00000	W	-	-	-	-

General Mean = 14.55750
Between lab standard deviation SL = 4.91394
Coefficient of variation = 34 %
Number of laboratories = 16

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

Job 77 : 99093, 99097
 2,4,4'-trichloorbifenyyl, PCB28 in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	4.97200 *	6.02200 *	5.49700 *	13.5 % *	
2 *	8.00000 *	5.00000 *	.00000 *	0 % *	
3 *	9.98000 *	8.73000 *	9.35500 *	9.4 % *	
4 *	2.93000 *	3.42000 *	3.17500 *	10.9 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *			.00000 *	0 % *	- N.V.
12 *	3.79000 *	3.74000 *	3.76500 *	.9 % *	
13 *	4.10000 *	4.20000 *	4.15000 *	1.7 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	4.00000 *	4.00000 *	4.00000 *	.0 % *	
17 *	3.00000 *	3.00000 *	3.00000 *	.0 % *	
18 *	3.90000 *	3.30000 *	3.60000 *	11.8 % *	
19 *	5.00000 *	5.00000 *	5.00000 *	.0 % *	
20 *	4.10000 *	3.20000 *	3.65000 *	17.4 % *	
21 *	5.50000 *	7.50000 *	6.50000 *	21.8 % *	
22 *	4.90000 *	4.10000 *	4.50000 *	12.6 % *	
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	5.00000 *	4.00000 *	4.50000 *	15.7 % *	
26 *			.00000 *	0 % *	- N.V.
27 *	6.00000 *	7.00000 *	6.50000 *	10.9 % *	
28 *	40.00000 *	40.00000 *	.00000 *	0 % *	< N.V.
29 *	2.80000 *	2.00000 *	2.40000 *	23.6 % *	



Analysis

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

15 laboratory observations

Maximum absolute difference from Normal distribution: 0.19856. Critical value: 0.40400. KS-test passed

No outliers found

Summary

1. Eliminations due to

1.1 Repeatability = 0

1.2 Reproducibility = 0

1.3 Manual rejected = 0

2. General Mean = 4.63947

3. Repeatability

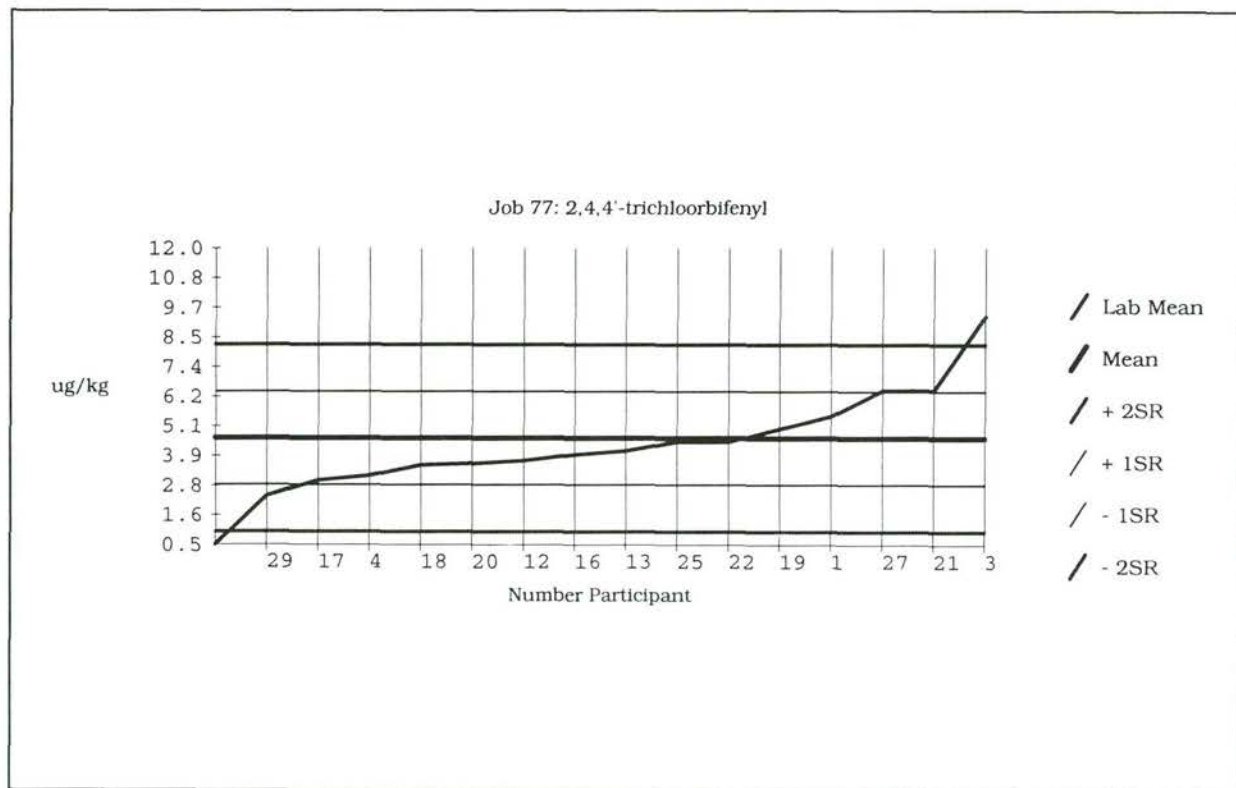
3.1 Standard deviation $S_r = .61556$

3.2 Coefficient of variation = 13 %

4. Reproducibility

4.1 Standard deviation $S_R = 1.81337$

4.2 Coefficient of variation = 39 %



Job Classification

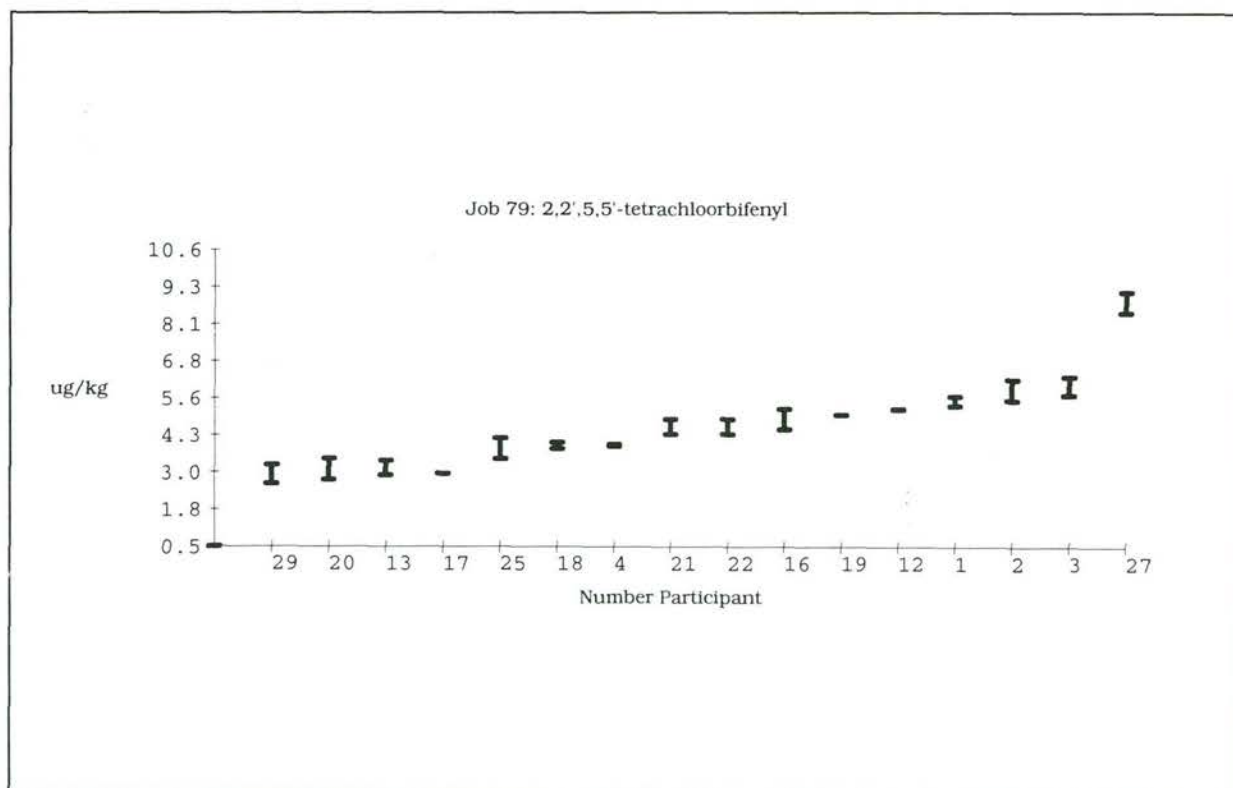
Lab	*	Mean	*	Clas	*	Ext	*	Clean	*	Det	*	Procedure	*	
7	*	.00000	*	G	*	?	*	?	*	?	*	?	*	*
24	*	.00000	*	G	*	-	*	-	*	-	*	-	*	*
8	*	.00000	*	G	*	?	*	?	*	?	*	?	*	*
14	*	.00000	*	G	*	-	*	-	*	-	*	-	*	*
2	*	.00000	*	G	*	-	*	-	*	-	*	-	*	*
9	*	.00000	*	G	*	-	*	-	*	-	*	-	*	*
15	*	.00000	*	G	*	?	*	?	*	?	*	?	*	*
26	*	.00000	*	G	*	-	*	-	*	-	*	-	*	*
10	*	.00000	*	G	*	-	*	-	*	-	*	-	*	*
11	*	.00000	*	G	*	-	*	-	*	-	*	-	*	*
28	*	.00000	*	G	*	-	*	-	*	-	*	NEN 5734	*	*
5	*	.00000	*	G	*	-	*	-	*	-	*	-	*	*
23	*	.00000	*	G	*	-	*	-	*	-	*	-	*	*
-	*	.00000	*	G	*	.	*	.	*	.	*	.	*	*
29	*	2.40000	*	B	*	LE	*	LLSC	*	GDE	*	HUIS	*	*
17	*	3.00000	*	A	*	LE	*	SC	*	GDE	*	HUIS	*	*
4	*	3.17500	*	A	*	-	*	-	*	-	*	-	*	*
18	*	3.60000	*	A	*	LA	*	C	*	GDE	*	HUIS	*	*
20	*	3.65000	*	A	*	LE	*	SC	*	GDE	*	A-O-NEN 5718	*	*
12	*	3.76500	*	A	*	Z	*	Z	*	GDE	*	HUIS	*	*
16	*	4.00000	*	A	*	LE	*	SC	*	GDE	*	HUIS	*	*
13	*	4.15000	*	A	*	LA	*	-	*	GDE	*	NEN 5718/6406	*	*
25	*	4.50000	*	A	*	LH	*	-	*	GDE	*	NEN 5734	*	*
22	*	4.50000	*	A	*	-	*	-	*	-	*	-	*	*
19	*	5.00000	*	A	*	LE	*	C	*	GDE	*	G-NEN 5734	*	*
1	*	5.49700	*	A	*	-	*	-	*	-	*	-	*	*
21	*	6.50000	*	B	*	LP	*	-	*	GSM	*	HUIS	*	*
27	*	6.50000	*	B	*	-	*	-	*	-	*	HUIS	*	*
3	*	9.35500	*	C	*	-	*	-	*	GDE	*	NEN 5734	*	*

General Mean = 4.63947
Between lab standard deviation SL = 1.70570
Coefficient of variation = 37 %
Number of laboratories = 15

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

Job 79 : 99093, 99097
 2,2',5,5'-tetrachloorbifeny1, PCB52 in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	5.55700 *	5.09200 *	5.32450 *	6.2 % *	
2 *	6.00000 *	5.00000 *	5.50000 *	12.9 % *	
3 *	6.12000 *	5.23000 *	5.67500 *	11.1 % *	
4 *	3.88000 *	3.98000 *	3.93000 *	1.8 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *			.00000 *	0 % *	- N.V.
12 *	5.21000 *	5.16000 *	5.18500 *	.7 % *	
13 *	2.60000 *	3.30000 *	2.95000 *	16.8 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	5.00000 *	4.00000 *	4.50000 *	15.7 % *	
17 *	3.00000 *	3.00000 *	3.00000 *	.0 % *	
18 *	4.00000 *	3.70000 *	3.85000 *	5.5 % *	
19 *	5.00000 *	5.00000 *	5.00000 *	.0 % *	
20 *	2.30000 *	3.30000 *	2.80000 *	25.3 % *	
21 *	4.70000 *	.00000 *	4.35000 *	11.4 % *	
22 *	4.70000 *	4.00000 *	4.35000 *	11.4 % *	
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	4.00000 *	3.00000 *	3.50000 *	20.2 % *	
26 *			.00000 *	0 % *	- N.V.
27 *	8.00000 *	9.00000 *	8.50000 *	8.3 % *	
28 *	40.00000 *	40.00000 *	.00000 *	0 % *	< N.V.
29 *	2.20000 *	3.10000 *	2.65000 *	24.0 % *	



Analysis

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

16 laboratory observations

Maximum absolute difference from Normal distribution: 0.13795. Critical value: 0.39200. KS-test passed

No outliers found

Summary

1. Eliminations due to

1.1 Repeatability = 0

1.2 Reproducibility = 0

1.3 Manual rejected = 0

2. General Mean = 4.44153

3. Repeatability

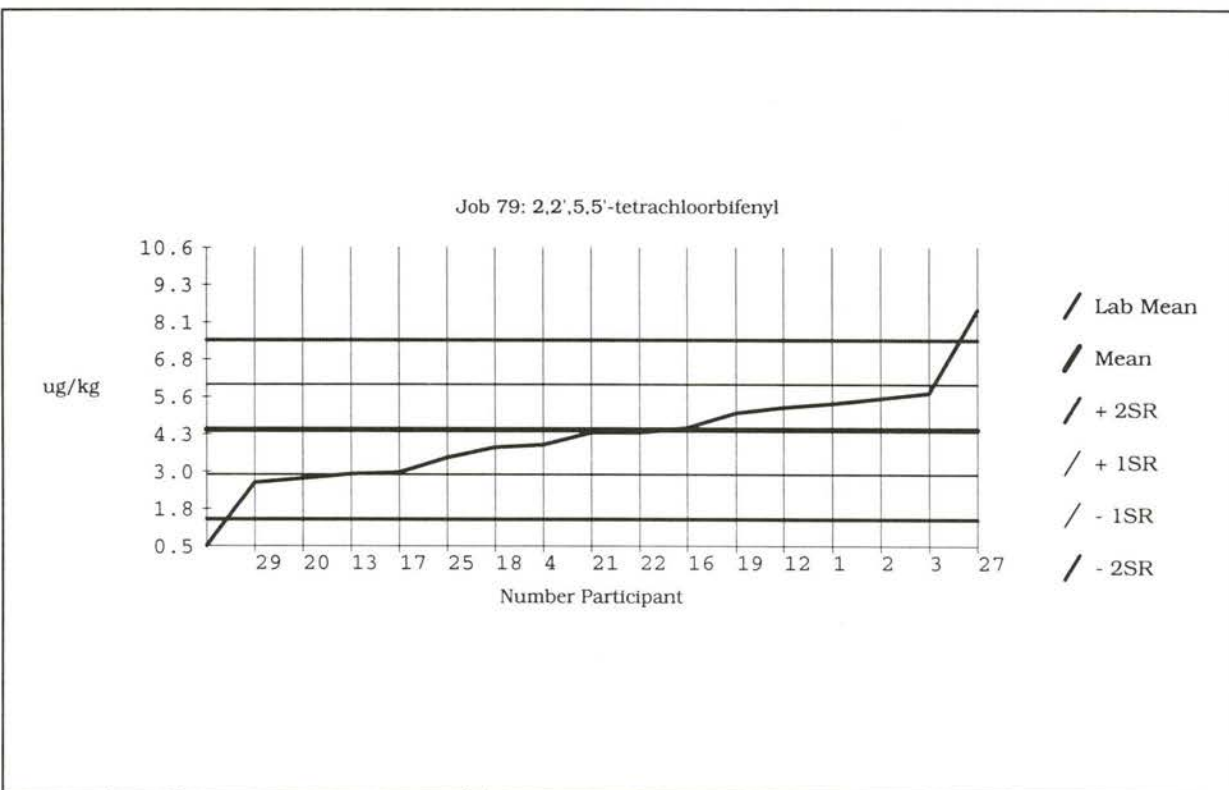
3.1 Standard deviation $S_r = .51207$

3.2 Coefficient of variation = 12 %

4. Reproducibility

4.1 Standard deviation $S_R = 1.51545$

4.2 Coefficient of variation = 34 %



Job Classification

Lab	Mean	Clas	Ext	Clean	Det	Procedure	
7	.00000	G	?	?	?	?	*
24	.00000	G	-	-	-	-	*
8	.00000	G	?	?	?	?	*
14	.00000	G	-	-	-	-	*
9	.00000	G	-	-	-	-	*
15	.00000	G	?	?	?	?	*
26	.00000	G	-	-	-	-	*
10	.00000	G	-	-	-	-	*
11	.00000	G	-	-	-	-	*
28	.00000	G	-	-	-	NEN 5734	*
5	.00000	G	-	-	-	-	*
23	.00000	G	-	-	-	-	*
6	.00000	G	?	?	?	?	*
29	2.65000	B	LE	LLSC	GDE	HUIS	*
20	2.80000	B	LE	SC	GDE	A-O-NEN 5718	*
13	2.95000	B	LA	-	GDE	NEN 5718/6406	*
17	3.00000	A	LE	SC	GDE	HUIS	*
25	3.50000	A	LH	-	GDE	NEN 5734	*
18	3.85000	A	LA	C	GDE	HUIS	*
4	3.93000	A	-	-	-	-	*
21	4.35000	A	LP	-	GSM	HUIS	*
22	4.35000	A	-	-	-	-	*
16	4.50000	A	LE	SC	GDE	HUIS	*
19	5.00000	A	LE	C	GDE	G-NEN 5734	*
12	5.18500	A	Z	Z	GDE	HUIS	*
1	5.32450	A	-	-	-	-	*
2	5.50000	A	-	-	-	-	*
3	5.67500	A	-	-	GDE	NEN 5734	*
27	8.50000	C	-	-	-	HUIS	*

General Mean = 4.44153

Between lab standard deviation SL = 1.42632

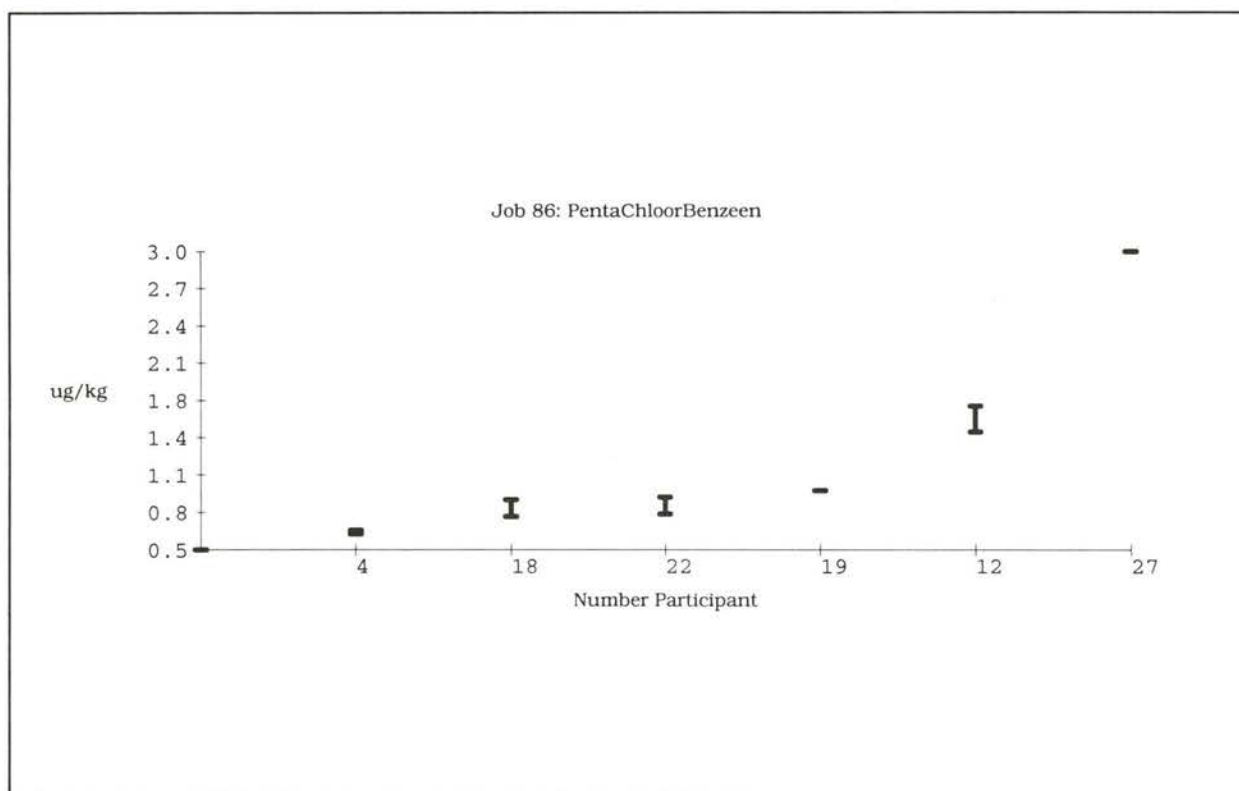
Coefficient of variation = 32 %

Number of laboratories = 16

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

Job 86 : 99093, 99097
PentaChloorBenzeen, QCB in ug/kg Sediment (Lake)
Lab * X1 * X2 * Average * %Variance *

1	*	1.62200	*	1.00000	*	.00000	*	0	%	*	
2	*		*		*	.00000	*	0	%	*	- N.V.
3	*	4.00000	*	3.00000	*	3.50000	*	20.2	%	*	
4	*	.65700	*	.61800	*	.63750	*	4.3	%	*	
5	*		*		*	.00000	*	0	%	*	- N.V.
6	*		*		*	.00000	*	0	%	*	- N.V.
7	*		*		*	.00000	*	0	%	*	- N.V.
8	*		*		*	.00000	*	0	%	*	- N.V.
9	*		*		*	.00000	*	0	%	*	- N.V.
10	*		*		*	.00000	*	0	%	*	- N.V.
11	*		*		*	.00000	*	0	%	*	- N.V.
12	*	1.64000	*	1.33000	*	1.48500	*	14.8	%	*	
13	*		*		*	.00000	*	0	%	*	- N.V.
14	*		*		*	.00000	*	0	%	*	- N.V.
15	*		*		*	.00000	*	0	%	*	- N.V.
16	*	5.00000	*	5.00000	*	.00000	*	0	%	*	< N.V.
17	*		*		*	.00000	*	0	%	*	- N.V.
18	*	.88000	*	.68000	*	.78000	*	18.1	%	*	
19	*	1.00000	*	1.00000	*	1.00000	*	.0	%	*	
20	*		*		*	.00000	*	0	%	*	- N.V.
21	*	1.00000	*	1.00000	*	.00000	*	0	%	*	< N.V.
22	*	.90000	*	.70000	*	.80000	*	17.7	%	*	
23	*		*		*	.00000	*	0	%	*	- N.V.
24	*		*		*	.00000	*	0	%	*	- N.V.
25	*	1.00000	*	1.00000	*	.00000	*	0	%	*	< N.V.
26	*		*		*	.00000	*	0	%	*	- N.V.
27	*	3.00000	*	3.00000	*	3.00000	*	.0	%	*	
28	*		*		*	.00000	*	0	%	*	- N.V.
29	*		*		*	.00000	*	0	%	*	



Analysis

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

7 laboratory observations

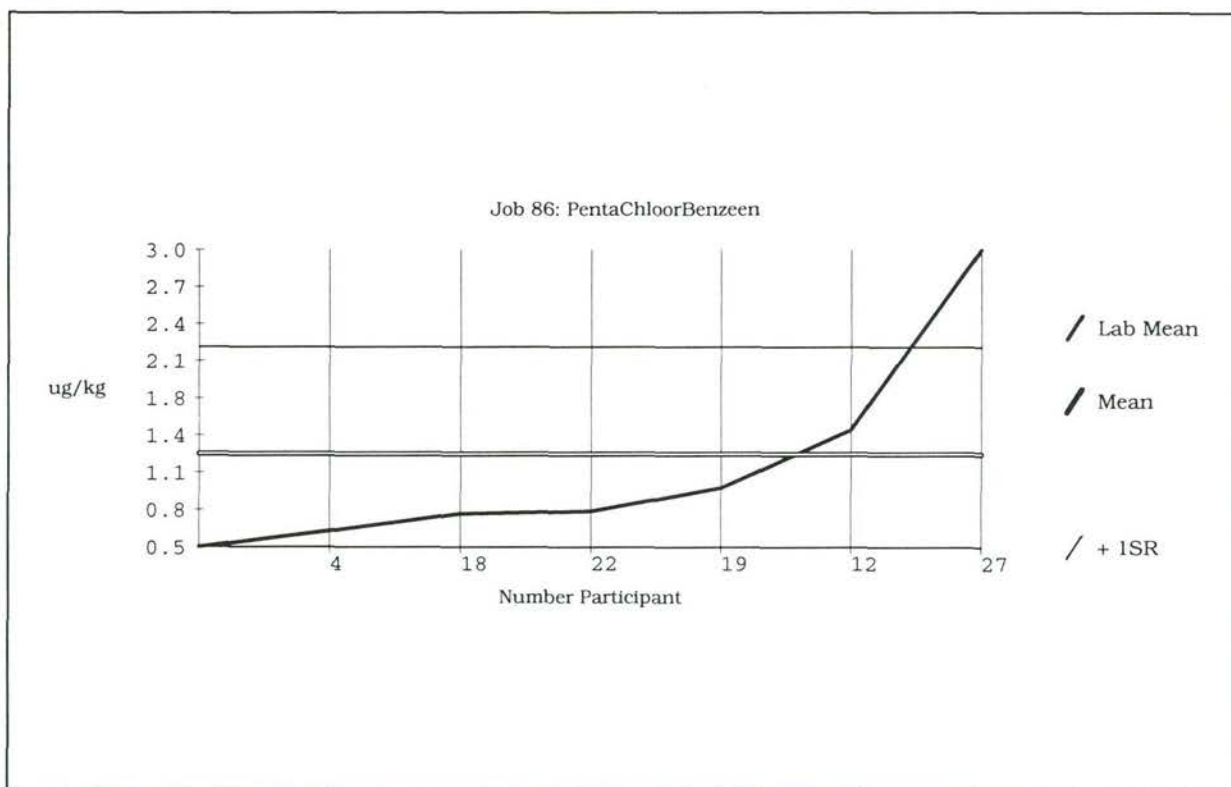
Maximum absolute difference from Normal distribution: 0.26641. Critical value: 0.57600. KS-test passed

COCHRAN; 1 % ; replicas: 2

Cyc	Lab	Average	Variance	Result	Value
1	3	3.50000	.70711	.84917	.83744

Summary

1. Eliminations due to
 - 1.1 Repeatability = 1
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 0
2. General Mean = 1.28375
3. Repeatability
 - 3.1 Standard deviation $S_r = .12166$
 - 3.2 Coefficient of variation = 9 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .89543$
 - 4.2 Coefficient of variation = 70 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.000000	G	?	?	?	?	*
13 *	.000000	G	-	-	-	-	*
24 *	.000000	G	-	-	-	-	*
1 *	.000000	G	-	-	-	-	*
8 *	.000000	G	?	?	?	?	*
14 *	.000000	G	-	-	-	-	*
25 *	.000000	G	LH	-	GDE	NEN 5734	*
2 *	.000000	G	-	-	-	-	*
9 *	.000000	G	-	-	-	-	*
15 *	.000000	G	?	?	?	?	*
20 *	.000000	G	-	-	-	-	*
26 *	.000000	G	-	-	-	-	*
10 *	.000000	G	-	-	-	-	*
16 *	.000000	G	LE	SC	GDE	HUIS	*
21 *	.000000	G	LP	-	GSM	HUIS	*
11 *	.000000	G	-	-	-	-	*
17 *	.000000	G	-	-	-	-	*
28 *	.000000	G	-	-	-	-	*
5 *	.000000	G	-	-	-	-	*
23 *	.000000	G	-	-	-	-	*
29 *	.000000	G	-	-	-	-	*
6 *	.000000	G	-	-	-	-	*
4 *	.63750	A	-	-	-	-	*
18 *	.78000	A	LA	C	GDE	HUIS	*
22 *	.80000	A	-	-	-	-	*
19 *	1.00000	A	LE	C	GDE	G-NEN 5734	*
12 *	1.48500	A	Z	Z	GDE	HUIS	*
27 *	3.00000	B	-	-	-	HUIS	*
3 *	3.50000	W	-	-	GDE	NEN 5734	*

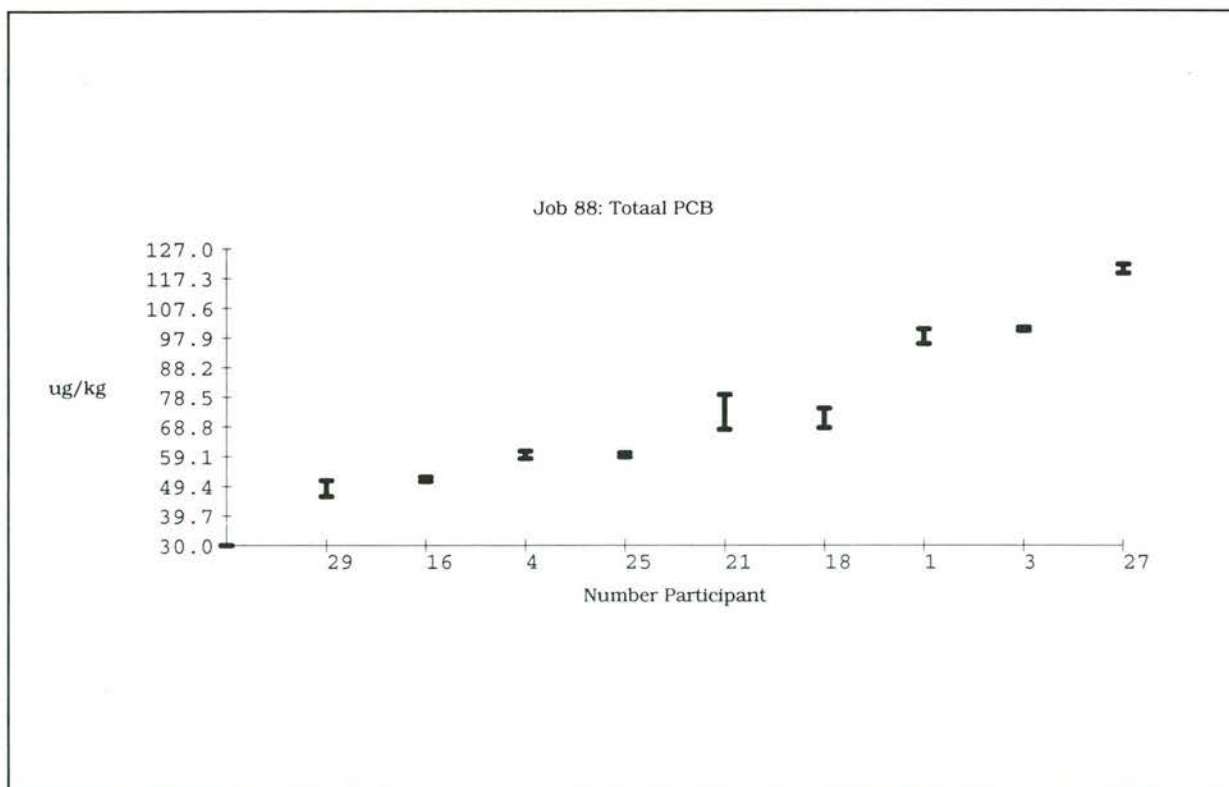
General Mean = 1.28375
Between lab standard deviation SL = .88712
Coefficient of variation = 69 %
Number of laboratories = 6

A: Number of laboratories with	Z	-scores between 0 and 1	; 5
B: Number of laboratories with	Z	-scores between 1 and 2	; 1
C: Number of laboratories with	Z	-scores between 2 and 3	; 0
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 88 : 99093, 99097

Totaal PCB, Tot PCB in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	92.35000 *	99.30000 *	95.82500 *	5.1 % *	
2 *	110.00000 *	150.00000 *	130.00000 *	21.8 % *	
3 *	101.00000 *	99.50000 *	100.25000 *	1.1 % *	
4 *	60.10000 *	56.70000 *	58.40000 *	4.1 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *			.00000 *	0 % *	- N.V.
12 *			.00000 *	0 % *	- N.V.
13 *			.00000 *	0 % *	- N.V.
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	52.00000 *	50.00000 *	51.00000 *	2.8 % *	
17 *			.00000 *	0 % *	- N.V.
18 *	73.00000 *	64.00000 *	68.50000 *	9.3 % *	
19 *			.00000 *	0 % *	- N.V.
20 *			.00000 *	0 % *	- N.V.
21 *	76.00000 *	60.00000 *	68.00000 *	16.6 % *	
22 *			.00000 *	0 % *	- N.V.
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	60.00000 *	58.00000 *	59.00000 *	2.4 % *	
26 *			.00000 *	0 % *	- N.V.
27 *	117.00000 *	121.00000 *	119.00000 *	2.4 % *	
28 *			.00000 *	0 % *	- N.V.
29 *	42.50000 *	49.80000 *	46.15000 *	11.2 % *	



Analysis

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

10 laboratory observations

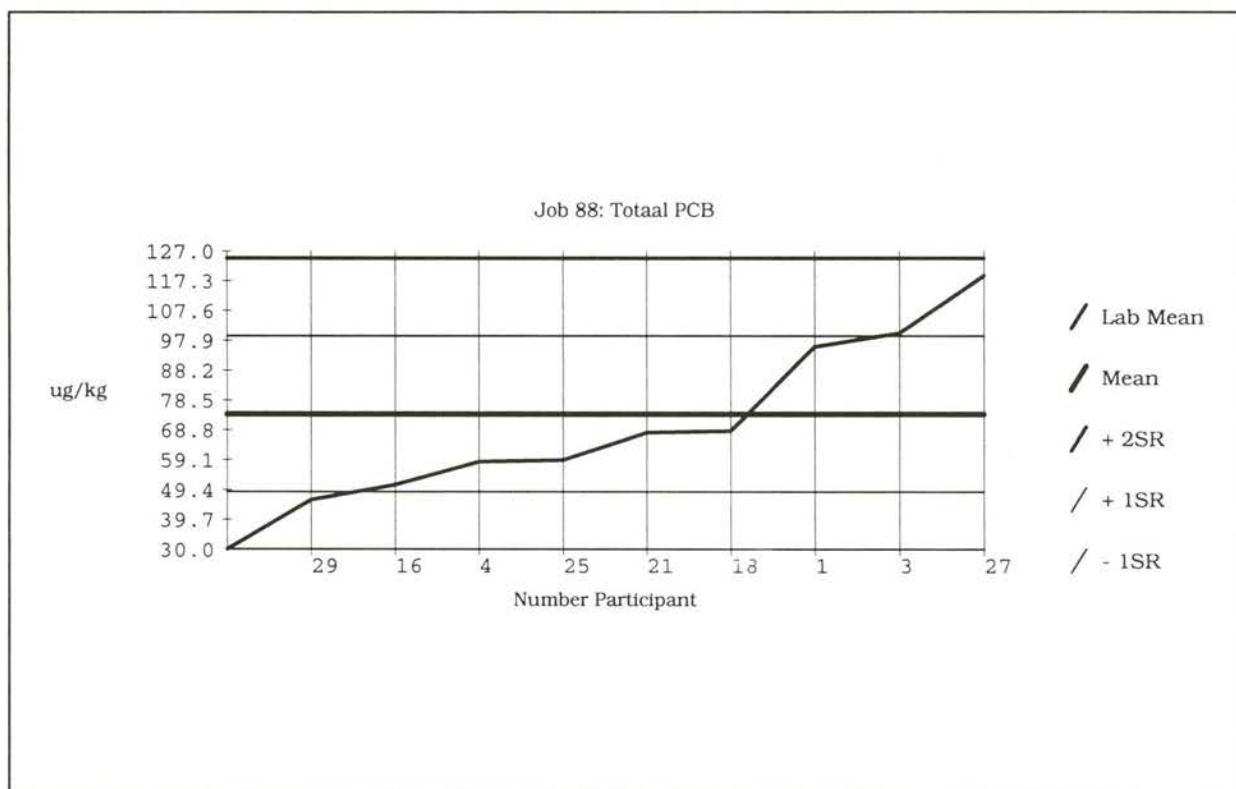
Maximum absolute difference from Normal distribution: 0.24803. Critical value: 0.48900. KS-test passed

COCHRAN; 1 % ; replicas: 2

Cyc *	Lab *	Average *	Variance *	Result *	Value
1 *	2 *	130.00000 *	28.28427 *	.77056 *	.71757

Summary

1. Eliminations due to
 - 1.1 Repeatability = 1
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 0
2. General Mean = 74.01389
3. Repeatability
 - 3.1 Standard deviation $S_r = 5.14459$
 - 3.2 Coefficient of variation = 7 %
4. Reproducibility
 - 4.1 Standard deviation $SR = 25.33646$
 - 4.2 Coefficient of variation = 34 %



Job Classification

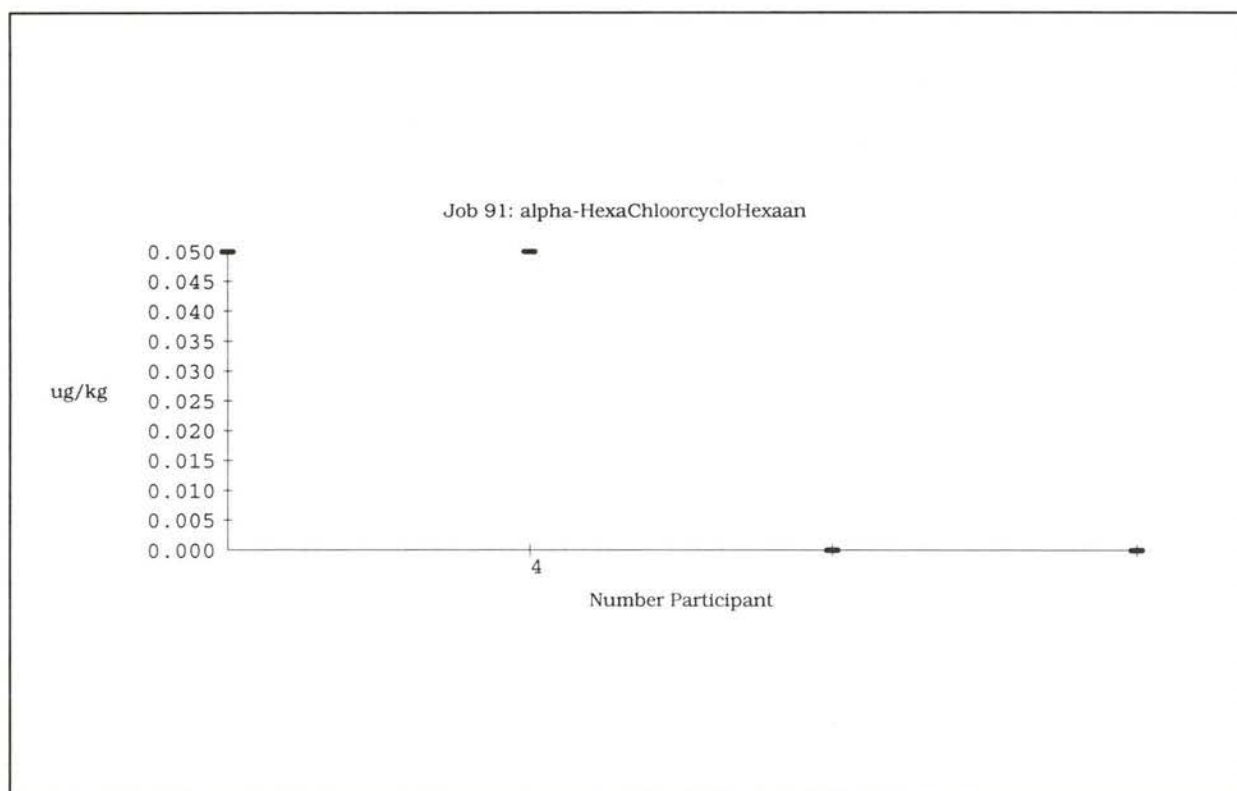
Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000	G	?	?	?	?	*
13 *	.00000	G	-	-	-	-	*
19 *	.00000	G	-	-	-	-	*
24 *	.00000	G	-	-	-	-	*
8 *	.00000	G	?	?	?	?	*
14 *	.00000	G	-	-	-	-	*
9 *	.00000	G	-	-	-	-	*
15 *	.00000	G	?	?	?	?	*
20 *	.00000	G	-	-	-	-	*
26 *	.00000	G	-	-	-	-	*
10 *	.00000	G	-	-	-	-	*
11 *	.00000	G	-	-	-	-	*
17 *	.00000	G	-	-	-	-	*
22 *	.00000	G	-	-	-	-	*
28 *	.00000	G	-	-	-	-	*
5 *	.00000	G	-	-	-	-	*
12 *	.00000	G	-	-	-	-	*
23 *	.00000	G	-	-	-	-	*
6 *	.00000	G	?	?	?	?	*
29 *	46.15000	B	-	-	-	-	*
16 *	51.00000	A	LE	SC	GDE	HUIS	*
4 *	58.40000	A	-	-	-	-	*
25 *	59.00000	A	LH	-	GDE	NEN 5734	*
21 *	68.00000	A	LP	-	GSM	HUIS	*
18 *	68.50000	A	LA	C	GDE	HUIS	*
1 *	95.82500	A	-	-	-	-	*
3 *	100.25000	B	-	-	GDE	NEN 5734	*
27 *	119.00000	B	-	-	-	HUIS	*
2 *	130.00000	W	-	-	-	-	*

General Mean = 74.01389
Between lab standard deviation SL = 24.80866
Coefficient of variation = 34 %
Number of laboratories = 9

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

Job 91 : 99093, 99097
alpha-HexachlorocycloHexaan, aHCH in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
2 *	4.00000 *	5.00000 *	.00000 *	0 % *	< N.V.
3 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
4 *	.05000 *	.05000 *	.05000 *	.0 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *			.00000 *	0 % *	- N.V.
12 *	.50000 *	.50000 *	.00000 *	0 % *	< N.V.
13 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	5.00000 *	5.00000 *	.00000 *	0 % *	< N.V.
17 *	2.00000 *	2.00000 *	.00000 *	0 % *	< N.V.
18 *	.40000 *	.40000 *	.00000 *	0 % *	< N.V.
19 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
20 *	.30000 *	.30000 *	.00000 *	0 % *	< N.V.
21 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
22 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
26 *			.00000 *	0 % *	- N.V.
27 *	2.50000 *	2.50000 *	.00000 *	0 % *	< N.V.
28 *	40.00000 *	40.00000 *	.00000 *	0 % *	< N.V.
29 *	.10000 *	.10000 *	.00000 *	0 % *	

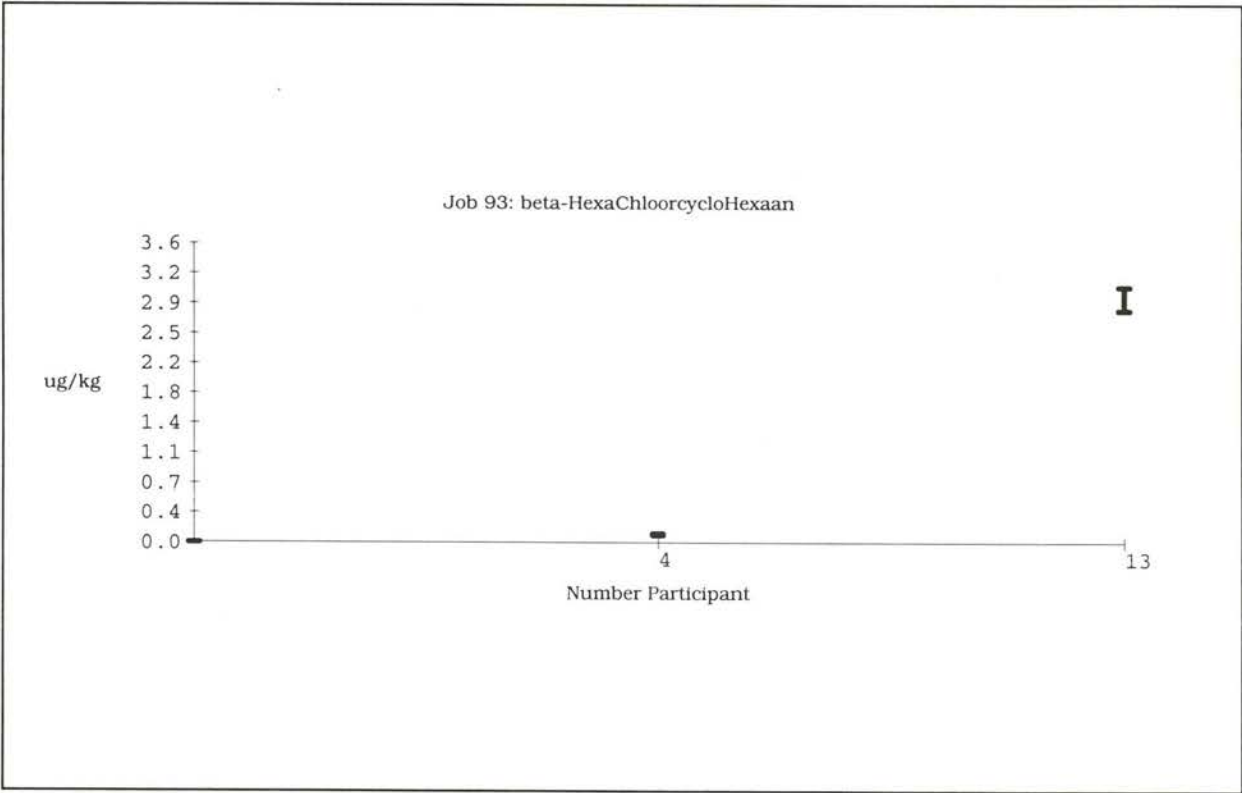


Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	N *	? *	? *	? *	? *	*
13 *	.00000 *	N *	LA *	S *	GDE *	NEN 5718/6406	*
19 *	.00000 *	N *	LE *	C *	GDE *	G-NEN 5734	*
24 *	.00000 *	N *	- *	- *	- *	- *	*
1 *	.00000 *	N *	- *	- *	- *	- *	*
8 *	.00000 *	N *	? *	? *	? *	? *	*
14 *	.00000 *	N *	- *	- *	- *	- *	*
25 *	.00000 *	N *	LH *	- *	GDE *	NEN 5734	*
2 *	.00000 *	N *	- *	- *	- *	- *	*
9 *	.00000 *	N *	- *	- *	- *	- *	*
15 *	.00000 *	N *	? *	? *	? *	? *	*
20 *	.00000 *	N *	LE *	SC *	GDE *	A-O-NEN 5718	*
26 *	.00000 *	N *	- *	- *	- *	- *	*
3 *	.00000 *	N *	- *	- *	GDE *	NEN 5734	*
10 *	.00000 *	N *	- *	- *	- *	- *	*
16 *	.00000 *	N *	LE *	SC *	GDE *	HUIS	*
21 *	.00000 *	N *	LP *	- *	GSM *	HUIS	*
27 *	.00000 *	N *	- *	- *	- *	HUIS	*
11 *	.00000 *	N *	- *	- *	- *	- *	*
17 *	.00000 *	N *	LE *	SC *	GDE *	HUIS	*
22 *	.00000 *	N *	- *	- *	- *	- *	*
28 *	.00000 *	N *	- *	- *	- *	NEN 5734	*
5 *	.00000 *	N *	- *	- *	- *	- *	*
12 *	.00000 *	N *	Z *	Z *	GDE *	HUIS	*
18 *	.00000 *	N *	LA *	C *	GDE *	HUIS	*
23 *	.00000 *	N *	- *	- *	- *	- *	*
29 *	.00000 *	N *	LE *	LLSC *	GDE *	HUIS	*
6 *	.00000 *	N *	- *	- *	- *	- *	*
4 *	.05000 *	N *	- *	- *	- *	- *	*

Job 93 : 99093, 99097
 beta-HexaChloorcycloHexaan, bHCH in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
2 *	11.00000 *	2.00000 *	.00000 *	0 % *	< N.V.
3 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
4 *	.10800 *	.07300 *	.09050 *	27.3 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *			.00000 *	0 % *	- N.V.
12 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
13 *	2.60000 *	3.00000 *	2.80000 *	10.1 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	5.00000 *	5.00000 *	.00000 *	0 % *	< N.V.
17 *	2.00000 *	2.00000 *	.00000 *	0 % *	< N.V.
18 *	.50000 *	.50000 *	.00000 *	0 % *	< N.V.
19 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
20 *	5.00000 *	5.00000 *	.00000 *	0 % *	< N.V.
21 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
22 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
26 *			.00000 *	0 % *	- N.V.
27 *	2.50000 *	2.50000 *	.00000 *	0 % *	< N.V.
28 *	40.00000 *	40.00000 *	.00000 *	0 % *	< N.V.
29 *	.10000 *	.20000 *	.00000 *	0 % *	



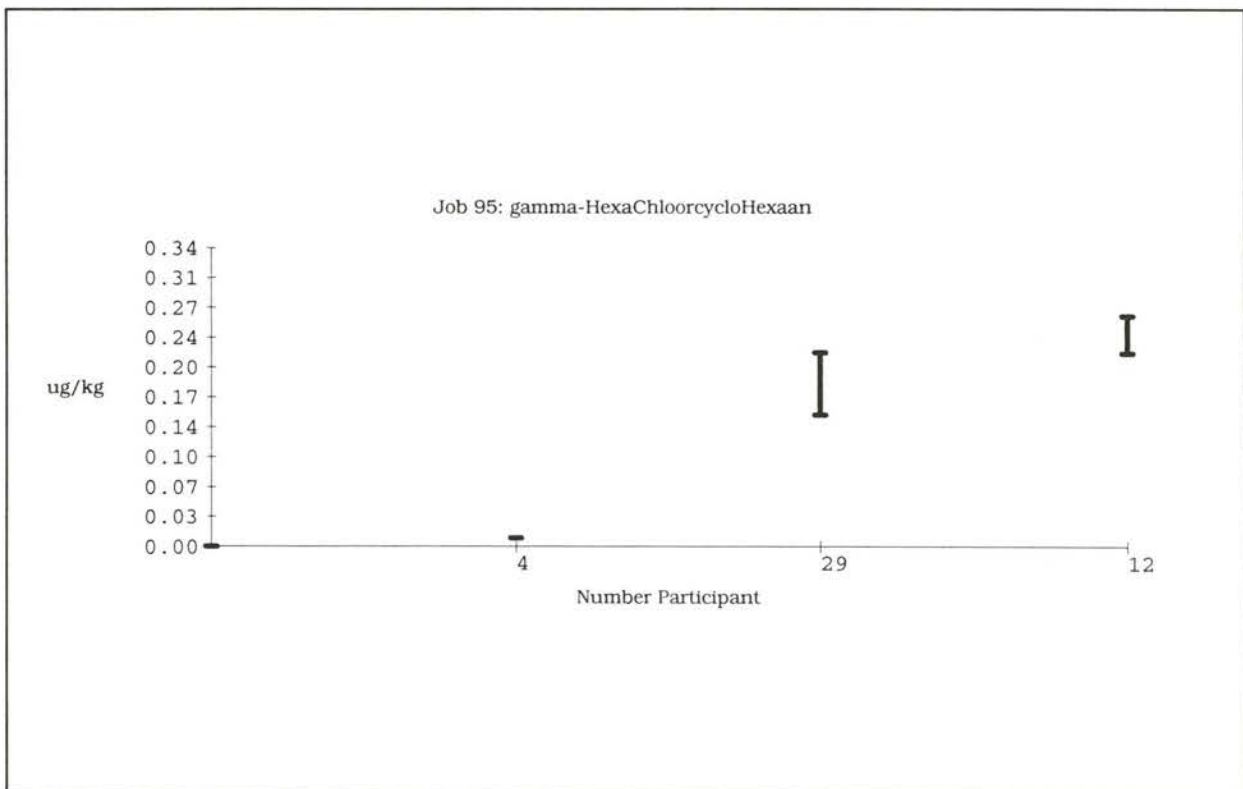
Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	*
7 *	.00000 *	N *	? *	? *	? *	? *	*
19 *	.00000 *	N *	LE *	C *	GDE *	G-NEN 5734	*
24 *	.00000 *	N *	- *	- *	- *	- *	*
1 *	.00000 *	N *	- *	- *	- *	- *	*
8 *	.00000 *	N *	? *	? *	? *	? *	*
14 *	.00000 *	N *	- *	- *	- *	- *	*
25 *	.00000 *	N *	LH *	- *	GDE *	NEN 5734	*
2 *	.00000 *	N *	- *	- *	- *	- *	*
9 *	.00000 *	N *	- *	- *	- *	- *	*
15 *	.00000 *	N *	? *	? *	? *	? *	*
20 *	.00000 *	N *	LE *	SC *	GDE *	A-O-NEN 5718	*
26 *	.00000 *	N *	- *	- *	- *	- *	*
3 *	.00000 *	N *	- *	- *	GDE *	NEN 5734	*
10 *	.00000 *	N *	- *	- *	- *	- *	*
16 *	.00000 *	N *	LE *	SC *	GDE *	HUIS	*
21 *	.00000 *	N *	LP *	- *	GSM *	HUIS	*
27 *	.00000 *	N *	- *	- *	- *	HUIS	*
11 *	.00000 *	N *	- *	- *	- *	- *	*
17 *	.00000 *	N *	LE *	SC *	GDE *	HUIS	*
22 *	.00000 *	N *	- *	- *	- *	- *	*
28 *	.00000 *	N *	- *	- *	- *	NEN 5734	*
5 *	.00000 *	N *	- *	- *	- *	- *	*
12 *	.00000 *	N *	Z *	Z *	GDE *	HUIS	*
18 *	.00000 *	N *	LA *	C *	GDE *	HUIS	*
23 *	.00000 *	N *	- *	- *	- *	- *	*
29 *	.00000 *	N *	LE *	LLSC *	GDE *	HUIS	*
6 *	.00000 *	N *	- *	- *	- *	- *	*
4 *	.09050 *	N *	- *	- *	- *	- *	*
13 *	2.80000 *	N *	LA *	S *	GDE *	NEN 5718/6406	*

Job 95 : 99093, 99097

gamma-HexaChloorcycloHexaan, cHCH in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	1.00000 *	1.00000 *	.00000 *	0 %	* < N.V.
2 *	15.00000 *	25.00000 *	.00000 *	0 %	* < N.V.
3 *	1.00000 *	1.00000 *	.00000 *	0 %	* < N.V.
4 *	.01000 *	.01000 *	.01000 *	.0 %	*
5 *			.00000 *	0 %	* - N.V.
6 *			.00000 *	0 %	* - N.V.
7 *			.00000 *	0 %	* - N.V.
8 *			.00000 *	0 %	* - N.V.
9 *			.00000 *	0 %	* - N.V.
10 *			.00000 *	0 %	* - N.V.
11 *			.00000 *	0 %	* - N.V.
12 *	.25000 *	.19000 *	.22000 *	19.3 %	*
13 *	1.00000 *	1.00000 *	.00000 *	0 %	* < N.V.
14 *			.00000 *	0 %	* - N.V.
15 *			.00000 *	0 %	* - N.V.
16 *	5.00000 *	5.00000 *	.00000 *	0 %	* < N.V.
17 *	2.00000 *	2.00000 *	.00000 *	0 %	* < N.V.
18 *	.30000 *	.30000 *	.00000 *	0 %	* < N.V.
19 *	1.00000 *	1.00000 *	.00000 *	0 %	* < N.V.
20 *	.50000 *	.50000 *	.00000 *	0 %	* < N.V.
21 *	1.00000 *	1.00000 *	.00000 *	0 %	* < N.V.
22 *	.50000 *	.50000 *	.00000 *	0 %	* < N.V.
23 *			.00000 *	0 %	* - N.V.
24 *			.00000 *	0 %	* - N.V.
25 *	1.00000 *	1.00000 *	.00000 *	0 %	* < N.V.
26 *			.00000 *	0 %	* - N.V.
27 *	2.50000 *	2.50000 *	.00000 *	0 %	* < N.V.
28 *	40.00000 *	40.00000 *	.00000 *	0 %	* < N.V.
29 *	.10000 *	.20000 *	.15000 *	47.1 %	*



Job Classification

Lab	Mean	Clas	Ext	Clean	Det	Procedure	
7	.00000	N	?	?	?	?	*
13	.00000	N	LA	S	GDE	NEN 5718/6406	*
19	.00000	N	LE	C	GDE	G-NEN 5734	*
24	.00000	N	-	-	-	-	*
1	.00000	N	-	-	-	-	*
8	.00000	N	?	?	?	?	*
14	.00000	N	-	-	-	-	*
25	.00000	N	LH	-	GDE	NEN 5734	*
2	.00000	N	-	-	-	-	*
9	.00000	N	-	-	-	-	*
15	.00000	N	?	?	?	?	*
20	.00000	N	LE	SC	GDE	A-O-NEN 5718	*
26	.00000	N	-	-	-	-	*
3	.00000	N	-	-	GDE	NEN 5734	*
10	.00000	N	-	-	-	-	*
16	.00000	N	LE	SC	GDE	HUIS	*
21	.00000	N	LP	-	GSM	HUIS	*
27	.00000	N	-	-	-	HUIS	*
11	.00000	N	-	-	-	-	*
17	.00000	N	LE	SC	GDE	HUIS	*
22	.00000	N	-	-	-	-	*
28	.00000	N	-	-	-	NEN 5734	*
5	.00000	N	-	-	-	-	*
18	.00000	N	LA	C	GDE	HUIS	*
23	.00000	N	-	-	-	-	*
6	.00000	N	-	-	-	-	*
4	.01000	N	-	-	-	-	*
29	.15000	N	LE	LLSC	GDE	HUIS	*
12	.22000	N	Z	Z	GDE	HUIS	*

AN ORIGINAL BINDOMATIC DFS COVER
Classic 6 mm for 31-60 sheets

