

# Proficiency Testing Scheme for Water Analysis

Round H84  
Herbicides

Sample Dispatch: 3 September 2012





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This report summarises the results of round H84 (herbicides) within the IFA-Test Proficiency Testing Scheme for water analysis. The samples H84A and H84B were distributed to the participants on Monday, 3 September 2012. Closing date for reporting results to the IFA-Tulln was Friday, 28 September 2012.

18 laboratories participated in this interlaboratory comparison. All laboratories submitted results.

## **Samples**

The samples consisted of simulated ground water, which was spiked with solutions of the herbicides. For sample preparation, ultrapure water was spiked with concentrated solutions of inorganic salts in order to simulate the ionic composition of natural ground water. The following salts were added to the samples:  $Mg(NO_3)_2$ ,  $MgSO_4$ ,  $Na_2SO_4$ ,  $NaHCO_3$ ,  $KHCO_3$ ,  $CaCl_2$  and  $Ca(NO_3)_2$ . The calculation of the target concentrations of the compounds was based on the mass of standard added to the samples.

Atrazine, cyanazine, desethylatrazine, desethylterbutylazine, metazachlor and terbutryn were not added to sample H84A. 2,6-Dichlorbenzamide, alachlor, sebuthylazine and terbuthylazine were not added to sample H84B in order to check the analytical blank values.

## **Homogeneity, accuracy and stability tests at the IFA-Tulln**

The samples H84A and H84B were prepared in one batch. For verification of homogeneity, 46 samples were taken from each batch and analysed for dissolved organic carbon (DOC). The DOC in each barrel is defined by the volume of organic solvent added with the pesticide stock solution. The results of these DOC measurements showed a relative standard deviation of max. 1,03 %. Thus, sufficient sample homogeneity could be demonstrated.

Accuracy of the assigned pesticide concentrations was confirmed by measurements of three bottles of H84A and H84B, which were analysed prior to sample dispatch. The results are listed in the result tables and the parameter oriented part of the report ("IFA result").

Stability tests for the water samples of the present proficiency testing round were carried out four weeks after dispatch. Two bottles of H84A and H84B that had been stored at 5°C in the dark were analysed for their herbicide concentrations. The results (mean values) are listed in the result tables and in the parameter-oriented part of this report ("Stability test").

## **Results**

Data evaluation was based on target concentrations that were calculated from the weights of the standards used to produce the samples. Their uncertainty intervals correspond to the expanded uncertainty (coverage factor  $k = 2$ ) as described in the EURACHEM/CITAC Guide "Quantifying Uncertainty in Analytical Measurement" (Second Edition).

Recoveries for individual laboratory results and overall mean values were calculated from these target concentrations. The results were tested for outliers using the Hampel outlier test (level of significance 99 %). A minimum number of four results was required for the outlier test.

The target concentration of atrazine, cyanazine, desethylatrazine, desethylterbutylazine, metazachlor and terbutryn in sample H84A and 2,6-dichlorbenzamide, alachlor, sebuthylazine and terbuthylazine in sample H84B, which were not added, were set to  $< 0,05 \mu\text{g/L}$ , which meets the minimum quantifiable values defined by the Austrian ground and river water monitoring program and the quantification limits of the analytical methods applied in the IFA.

Standard deviations and coefficients of variation (CVs) were only calculated when at least three results were available. The between laboratory CVs covered the range between 5,6 % (alachlor in sample H84A) and 21,9 % (hexazinon in sample H84B).

The recoveries of the target concentrations, calculated from outlier-corrected data mean values ranged between 82,1 % (pendimethalin in sample H84A) and 123,2 % (hexazinon in sample H84B).

All confidence intervals of the outlier-corrected laboratory mean values except that for pendimethalin in sample H84A (82,1 % ± 7,4 %) encompass the corresponding target values with their uncertainties.

### **z-Scores**

The most common approach is to form the z-score given by

$$z = \frac{x_i - \bar{x}}{\sigma}$$

$z$	z-score
$x_i$	result of laboratory
$\bar{x}$	target value or mean value („consensus value“)
$\sigma$	standard deviation

Thus, the z-score is the ratio of the estimated bias (difference between result and target value) and a standard deviation. The z-score criteria were determined from relative standard deviations from all interlaboratory comparisons that were organised by the IFA-Tulln in the period from 2001 to 2011. They represent long-term performance data of all former participating laboratories. The z-scores are listed together with the recoveries in the tables of the parameter oriented part.

Additionally, each laboratory obtained for every sample a single sheet that summarises the z-scores of the laboratory in graphical and tabular form.

The following table lists the z-score criteria as relative standard deviation and their limits of applicability. Z-scores were only calculated, if the target values were higher than these limits.

Parameter	z-Score-criteria (%)	Lower limit [ $\mu\text{g/L}$ ]
2,6-Dichlorobenzamide	14	0.05
Alachlor	14	0.05
Atrazine	14	0.05
Bromacil	14	0.05
Cyanazine	14	0.05
Desethylatrazine	16	0.05
Desethylterbuthylazine	15	0.05
Desisopropylatrazine	16	0.05
Diuron	13	0.05
Hexazinone	17	0.05
Metazachlor	15	0.05
Metolachlor	15	0.05
Pendimethalin	24	0.05
Prometryn	14	0.05
Propazine	13	0.05
Sebuthylazine	11	0.05
Simazine	14	0.05
Terbuthylazine	14	0.05
Terbutryn	15	0.05

Normally, a classification based on z-scores is made this way:

z-Score	Classification
<2	satisfactory
$2 <  z  < 3$	questionable
>3	unsatisfactory

Please note that this evaluation is made on the background of the average performance of all participants of the IFA-Test-Systems proficiency testing scheme during the period from 2001 to 2011.

### Illustration of results

An explanation to the illustration of the results is given on the following page. Graphical and tabular illustration of results can be divided into a parameter oriented and a laboratory-oriented part.

The **laboratory-oriented part** contains the measurement results and reported uncertainties of each individual laboratory for all parameters together with the achieved recoveries in graphical and tabular form. This part of the report also lists tables with the results originally reported by the laboratories.

In the **parameter-oriented part** the reported results and corresponding uncertainties are illustrated together with recoveries of the target values and the z-scores for each parameter and all laboratories. This information is presented in graphical and tabular form. Results which were identified as outliers by the Hampel test are marked with an asterisk in the column "out". These values were not considered for calculating statistical parameters (mean values, standard deviations and confidence intervals). Moreover, the parameter oriented part contains the uncertainties of the target value. The reported uncertainty is an expanded uncertainty calculated using a coverage factor (k) of 2 which gives a level of confidence of approximately 95% (as described in the EURACHEM / CITAC Guide "Quantifying Uncertainty in Analytical Measurement" (Second Edition)). The uncertainty interval of the reference concentration is illustrated in the graph as a grey band around the 100% recovery line.

Results for which no recoveries can be calculated, are illustrated by one of the following symbols: **FN** (false negative), **FP** (false positive) or the • - symbol.

- **FN**: A result is false negative when the "< result" reported is lower than the corresponding target value (under consideration of the uncertainty of the target value)
- **FP**: False positive results can be obtained for compounds not added to the samples: a result is termed FP when it is higher than the corresponding method quantification limit of the procedure employed at the IFA-Tulln.
- •: all other results for which no recovery rate can be calculated are illustrated by this symbol

Tulln, 05 October 2012

**Sample C10B**  
**Parameter Dichloromethane**

Target value ± U (k=2) 10,4 µg/l ± 0,5 µg/l **Obtained from mass weighed out, U = uncertainty**

IFA result ± U (k=2) 10,2 µg/l ± 1,0 µg/l **Determined at IFA prior to shipment of samples**

Stability test ± U (k=2) 10,2 µg/l ± 1,0 µg/l **Determined at IFA 5 weeks after sample dispatch**

Lab code	Result	Out	+/-	Unit	Recovery	z-Score
A	11,0		1,28	µg/l	106 %	0,30
B	9,0		1,8	µg/l	87 %	-0,71
C	10		2	µg/l	96 %	-0,20
D				µg/l		
E	13,7		0,40	µg/l	132 %	1,67
F	6,8		0,7	µg/l	65 %	-1,82
G	< 20			µg/l		
H				µg/l		
I	11,0			µg/l	106%	0,30
J	24,1	*	1,51	µg/l	232 %	6,93
K	10,09		1,22	µg/l	97 %	-0,16
L	2,76	*		µg/l	27 %	-3,87
M	6,38		1,87	µg/l	61 %	-2,03
N	< 5		0,5	µg/l	FN	
O	15,6	*	4	µg/l	150 %	2,63
P	10,3		1,0	µg/l	99 %	-0,05
Q	10		1,14	µg/l	96 %	-0,20
R	8,88		0,46	µg/l	85 %	-0,77
S				µg/l		
T	9,03		0,08	µg/l	87 %	-0,69
U	22,5	*	0,5	µg/l	216 %	6,12
V	10,33		0,25	µg/l	99 %	-0,04

Recovery of target value in percent

z-Score of the laboratory

An asterisk indicates a result detected as outlier by Hampel test

Interval expected to encompass target value as stated by participant

	All results	Outliers excl.	Unit
Mean +/- CI (99%)	11,3 ± 3,8	9,7 ± 1,6	µg/l
Recov. +/- CI (99%)	108,3 ± 36,3	93,6 ± 15,1	%
SD between labs	5,3	1,9	µg/l
RSD between labs	47,3	19,1	%
n for calculation	17	13	

Between laboratory standard deviation

Overall laboratory mean and recovery with corresponding confidence intervals (p=99%)

Number of data used for calculation of statistic parameters

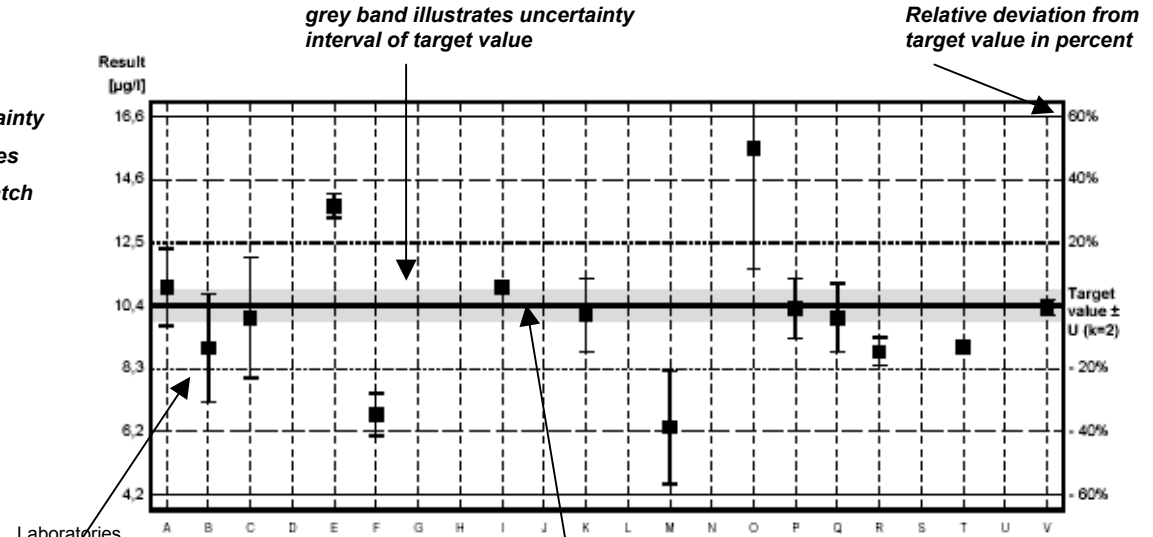
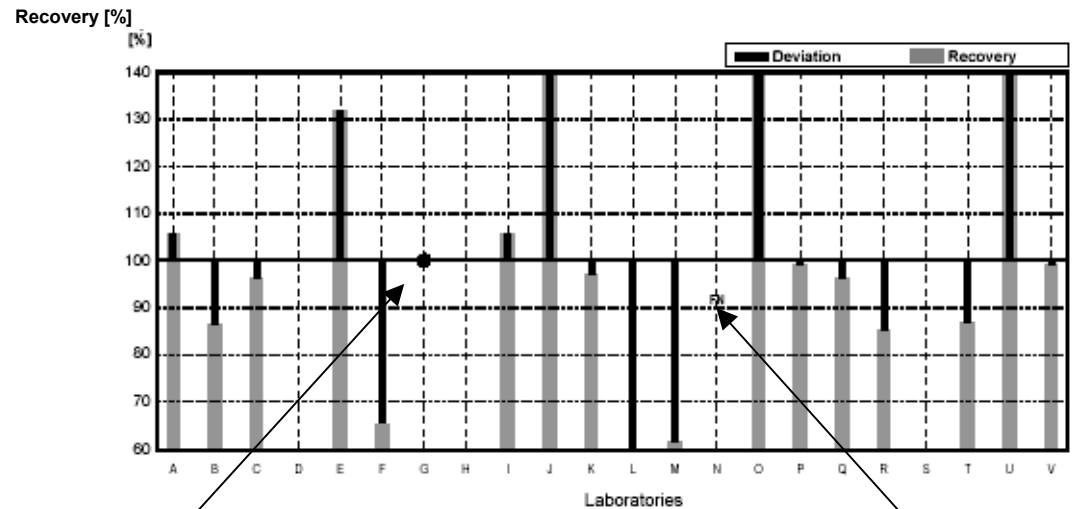


Diagram 1. Measurement results and corresponding uncertainty intervals

Result ± uncertainty as stated by participant

target value obtained from mass weight



Result neither false positive, false negative nor possible to calculate recovery

False negative: reported "<-result" is lower than target value

Diagram 2. Recoveries and deviations from target values

EXPLANATION





# Illustration of Results Tables and Parameter Oriented Part

Round H84  
Herbicides

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### Results Sample H84A

	2,6-Dichloro- benzamide	Alachlor	Atrazine	Bromacil	Cyanazine	Desethyl- atrazine
Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Target value	0.162	0.122	<0.05	0.282	<0.05	<0.05
IFA result	0.158	0.130	<0.01	0.289	<0.01	<0.01
Stability test	0.150	0.110	<0.01	0.316	<0.01	<0.01
A			<0.025			<0.025
B	0.152	0.107	<0.02	0.189	<0.02	<0.02
C	0.170	0.114	<0.010	0.328	<0.015	<0.010
D	0.161	0.113	<0.050		<0.050	<0.050
E		0.108	<0.01		<0.01	<0.01
F		0.125	<0.005	0.278	<0.005	<0.005
G		0.06	<0.01			<0.02
H	0.15		<0.05		<0.05	<0.05
I	0.14	0.11	<0.02	0.27	<0.02	<0.02
J	0.163	0.112	<0.05	n.a.	<0.05	<0.05
K	0.16	0.11	<0.003	0.24	<0.003	<0.001
L			<0.01		<0.01	<0.01
M	0.152	0.149	<0.05	0.247	<0.05	<0.05
N	0.136	0.177	<0.05	0.252	<0.05	<0.05
O	0.209	0.124	<0.010	0.175	<0.010	<0.010
P			<0.009	0.327	<0.010	<0.020
Q			<0.005		<0.005	<0.005
R	0.142	0.119	<0.030	0.281	<0.030	<0.030

### Uncertainties Sample H84A

	2,6-Dichloro- benzamide	Alachlor	Atrazine	Bromacil	Cyanazine	Desethyl- atrazine
	±	±	±	±	±	±
Target value	0.008	0.006		0.014		
IFA result	0.032	0.022		0.058		
Stability test	0.030	0.019		0.063		
A						
B	0.030	0.021		0.038		
C	0.042	0.023		0.098		
D	0.0040	0.0116				
E		0.039				
F		0.04	0.002	0.080	0.002	0.002
G		0.02				
H	0.03					
I	0.03	0.02		0.05		
J	0.064	0.040				
K	0.03	0.03		0.06		
L						
M	0.015	0.015		0.030		
N	0.026	0.030		0.030		
O	0.042	0.025		0.035		
P			0.012	0.012	0.012	0.012
Q						
R	0.014	0.012		0.042		

### Results Sample H84A

	Desethyl- terbuthylazin	Desisopropyl- atrazine	Diuron	Hexazinone	Metazachlor	Metolachlor
Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Target value	<0.05	0.061	0.104	0.250	<0.05	0.372
IFA result	<0.01	0.067	0.102	0.248	<0.01	0.361
Stability test	<0.01	0.064	0.101	0.246	<0.01	0.376
A			0.110			
B	<0.02	0.056	0.106	0.243	<0.02	0.350
C	<0.010	0.077	0.102	0.282	<0.015	0.336
D	<0.050	0.068				0.343
E	<0.01				<0.01	0.31
F	<0.005	0.067	0.115	0.323	<0.005	0.431
G	<0.02	<0.02	0.04			0.35
H		0.067			<0.05	
I	<0.02	0.06	0.11		<0.02	0.41
J	<0.05	0.075	n.a.	n.a.	n.a.	0.341
K	<0.005	0.058	0.098	0.24	<0.002	0.35
L	<0.01	0.065	0.107	0.281		0.489
M	<0.05	0.077	0.125	0.271	<0.050	0.358
N	<0.05	0.093	0.474	0.267	<0.05	0.543
O		0.049	0.065	0.317	<0.010	0.419
P	<0.006	<0.039	0.144	0.410	<0.019	0.425
Q	<0.005					
R	<0.030	0.057	0.099	0.236	<0.030	0.384

### Uncertainties Sample H84A

	Desethyl- terbuthylazin	Desisopropyl- atrazine	Diuron	Hexazinone	Metazachlor	Metolachlor
	±	±	±	±	±	±
Target value		0.003	0.005	0.013		0.019
IFA result		0.005	0.020	0.035		0.061
Stability test		0.005	0.020	0.034		0.064
A			0.033			
B		0.011	0.021	0.049		0.070
C		0.023	0.015	0.085		0.050
D		0.0045				0.0064
E						0.11
F	0.002	0.025	0.025	0.065	0.002	0.100
G			0.02			0.07
H		0.013				
I		0.01	0.02			0.08
J		0.029				0.109
K		0.033	0.018	0.05		0.08
L		0.010	0.010	0.014		0.115
M		0.010	0.015	0.030		0.040
N		0.02	0.06	0.04		0.08
O		0.010	0.013	0.063		0.084
P	0.012	0.012	0.012	0.012	0.012	0.012
Q						
R		0.006	0.015	0.035		0.038

### Results Sample H84A

	Pendi-methalin	Prometryn	Propazine	Sebuthyl-azine	Simazine	Terbuthyl-azine	Terbutryn
Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Target value	0.114	0.275	0.358	0.400	0.072	0.072	<0.05
IFA result	0.185	0.278	0.346	0.378	0.074	0.066	<0.01
Stability test	0.212	0.328	0.335	0.386	0.076	0.082	<0.01
A						0.072	
B	0.083	0.240	0.455	0.320	0.195	0.078	<0.02
C	0.140	0.265	0.334	0.378	0.068	0.067	<0.010
D	0.088	0.277	0.364	0.393	0.072	0.075	<0.050
E	0.103	0.196	0.262		0.059	0.063	<0.01
F	0.10	0.289	0.413	0.533	0.072	0.083	<0.005
G	<0.02				0.05	0.28	<0.01
H			0.32	0.38	0.083	0.073	
I		0.17	0.34		0.07	0.10	<0.02
J	0.091	0.265	0.354	<0.05	0.072	0.072	<0.05
K	0.10	0.25	0.34	0.53	0.071	0.070	<0.004
L		0.273	0.367	0.427	0.477	0.060	
M	0.208	0.284	0.360	0.406	0.075	0.084	<0.05
N	0.092	0.205	0.565	0.560	0.131	0.206	<0.05
O			0.339		0.073	0.077	<0.010
P			0.410	0.470	0.082	0.084	
Q		0.242	0.323		0.074	0.069	<0.005
R	0.092	0.285	0.372	0.386	0.067	0.074	<0.030

### Uncertainties Sample H84A

	Pendi-methalin	Prometryn	Propazine	Sebuthyl-azine	Simazine	Terbuthyl-azine	Terbutryn
	±	±	±	±	±	±	±
Target value	0.006	0.014	0.018	0.020	0.004	0.004	
IFA result	0.037	0.033	0.055	0.030	0.013	0.009	
Stability test	0.042	0.039	0.054	0.031	0.013	0.011	
A						0.019	
B	0.017	0.048	0.091	0.064	0.039	0.016	
C	0.042	0.053	0.050	0.057	0.014	0.010	
D	0.0213	0.0059	0.0061	0.0050	0.0054	0.0077	
E	0.037	0.071	0.095		0.022	0.023	
F	0.03	0.075	0.100	0.160	0.020	0.020	0.002
G					0.02	0.06	
H			0.064	0.076	0.017	0.015	
I		0.03	0.07		0.01	0.02	
J	0.021	0.080	0.117		0.035	0.018	
K	0.03	0.06	0.07	0.11	0.016	0.016	
L		0.066	0.086	0.080	0.089	0.018	
M	0.030	0.030	0.040	0.050	0.010	0.010	
N	0.020	0.03	0.08	0.08	0.03	0.03	
O			0.068		0.015	0.015	
P			0.012	0.012	0.012	0.012	
Q		0.045	0.063		0.015	0.015	
R	0.018	0.028	0.037	0.039	0.007	0.007	

### Results Sample H84B

	2,6-Dichloro- benzamide	Alachlor	Atrazine	Bromacil	Cyanazine	Desethyl- atrazine
Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Target value	<0.05	<0.05	0.146	0.163	0.304	0.226
IFA result	<0.01	<0.01	0.150	0.163	0.301	0.211
Stability test	<0.01	<0.01	0.146	0.168	0.297	0.214
A			0.149			0.244
B	<0.02	<0.02	0.139	0.085	0.288	0.250
C	<0.020	<0.010	0.133	0.181	0.315	0.217
D	<0.050	<0.050	0.141		0.313	0.214
E		<0.01	0.123		0.215	0.158
F		<0.005	0.145	0.186	0.374	0.278
G		<0.02	0.11			0.07
H	<0.05		0.16		0.33	0.22
I	<0.02	<0.02	0.13	0.15	0.30	0.21
J	<0.05	<0.05	0.133	n.a.	0.302	0.256
K	0.03	<0.002	0.13	0.15	0.28	0.20
L			0.157			0.224
M	<0.05	<0.05	0.151	0.184	0.294	0.223
N	<0.05	<0.05	0.293	0.158	0.466	0.223
O				0.116		
P			0.166	0.187	0.337	0.278
Q			0.153		0.237	0.245
R	<0.030	<0.030	0.145	0.161	0.282	0.222

### Uncertainties Sample H84B

	2,6-Dichloro- benzamide	Alachlor	Atrazine	Bromacil	Cyanazine	Desethyl- atrazine
	±	±	±	±	±	±
Target value			0.007	0.008	0.015	0.011
IFA result			0.026	0.033	0.057	0.021
Stability test			0.025	0.034	0.056	0.021
A			0.045			0.072
B			0.028	0.017	0.058	0.050
C			0.020	0.054	0.094	0.043
D			0.0055		0.0057	0.0063
E			0.045		0.078	0.057
F		0.002	0.04	0.05	0.05	0.06
G			0.02			0.03
H			0.032		0.066	0.044
I			0.03	0.03	0.06	0.04
J			0.043		0.145	0.074
K			0.02	0.03	0.06	0.03
L			0.026			0.043
M			0.015	0.020	0.035	0.025
N			0.04	0.02	0.07	0.04
O				0.023		
P			0.012	0.012	0.012	0.012
Q			0.030		0.051	0.047
R			0.015	0.024	0.028	0.022

### Results Sample H84B

	Desethyl- terbuthylazin	Desisopropyl- atrazine	Diuron	Hexazinone	Metazachlor	Metolachlor
Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Target value	0.181	0.180	0.401	0.100	0.253	0.106
IFA result	0.189	0.183	0.393	0.110	0.270	0.129
Stability test	0.189	0.177	0.385	0.103	0.229	0.108
A			0.428			
B	0.177	0.165	0.397	0.101	0.284	0.112
C	0.137	0.210	0.408	0.113	0.227	0.095
D	0.184	0.188				0.093
E	0.145				0.239	0.113
F	0.181	0.207	0.380	0.123	0.270	0.106
G	0.13	<0.02	0.24			0.08
H		0.21			0.27	
I	0.18	0.16	0.40		0.26	0.11
J	0.161	0.137	n.a.	n.a.	n.a.	0.095
K	0.16	0.16	0.38	0.099	0.24	0.10
L		0.182	0.425	0.109		0.131
M	0.189	0.193	0.330	0.154	0.212	0.113
N	<0.05	<0.05	0.632	0.151	0.449	0.271
O			0.240			
P	0.204	0.247	0.542	0.166	0.288	0.158
Q	0.160					
R	0.199	0.165	0.403	0.093	0.242	0.110

### Uncertainties Sample H84B

	Desethyl- terbuthylazine	Desisopropyl- atrazine	Diuron	Hexazinone	Metazachlor	Metolachlor
	±	±	±	±	±	±
Target value	0.009	0.009	0.020	0.005	0.013	0.005
IFA result	0.028	0.015	0.079	0.015	0.043	0.022
Stability test	0.028	0.014	0.077	0.014	0.037	0.018
A			0.128			
B	0.035	0.033	0.079	0.020	0.057	0.022
C	0.027	0.063	0.061	0.034	0.045	0.014
D	0.0068	0.0043				0.0066
E	0.053				0.085	0.041
F	0.05	0.025	0.080	0.025	0.030	0.025
G	0.03		0.05			0.03
H		0.042			0.054	
I	0.04	0.03	0.08		0.05	0.02
J	0.058	0.052				0.030
K	0.02	0.09	0.07	0.021	0.05	0.02
L		0.030	0.025	0.010		0.003
M	0.020	0.020	0.040	0.020	0.025	0.015
N			0.09	0.03	0.07	0.05
O			0.048			
P	0.012	0.012	0.012	0.012	0.012	0.012
Q	0.030					
R	0.020	0.017	0.060	0.014	0.036	0.011

### Results Sample H84B

	Pendi-methalin	Prometryn	Propazine	Sebuthyl-azine	Simazine	Terbuthyl-azine	Terbutryn
Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Target value	0.403	0.152	0.082	<0.05	0.388	<0.05	0.387
IFA result	0.458	0.158	0.063	<0.02	0.394	<0.01	0.392
Stability test	0.541	0.175	0.056	<0.02	0.380	<0.01	0.401
A						<0.025	
B	0.283	0.153	0.096	<0.02	1.040	<0.02	0.365
C	0.452	0.142	0.072	<0.010	0.359	<0.010	0.344
D	0.321	0.144	0.077	<0.050	0.355	<0.050	0.368
E	0.342	0.133	0.089		0.257	<0.01	0.303
F	0.36	0.150	0.084	<0.005	0.384	<0.005	0.396
G	0.07				0.25	<0.01	0.18
H			0.09	<0.05	0.38	<0.05	
I		0.15	0.08		0.37	<0.02	0.38
J	0.323	0.136	0.076	0.381	0.345	<0.05	0.333
K	0.33	0.13	0.080	<0.003	0.39	<0.004	0.37
L		0.147	0.085	<0.01		<0.01	0.330
M	0.377	0.154	0.094	<0.05	0.367	<0.05	0.352
N	0.171	0.192	0.218	0.195	0.389	<0.05	0.459
O							
P			0.094	<0.007	0.434	<0.009	
Q		0.184	0.084		0.325	<0.005	0.410
R	0.340	0.151	0.083	<0.030	0.358	<0.030	0.385

### Uncertainties Sample H84B

	Pendi-methalin	Prometryn	Propazine	Sebuthyl-azine	Simazine	Terbuthyl-azine	Terbutryn
	±	±	±	±	±	±	±
Target value	0.020	0.008	0.004		0.019		0.019
IFA result	0.092	0.019	0.010		0.067		0.055
Stability test	0.108	0.021	0.009		0.065		0.056
A							
B	0.057	0.031	0.020		0.208		0.073
C	0.136	0.028	0.011		0.072		0.069
D	0.0207	0.0060	0.0062		0.0052		0.0070
E	0.12		0.033		0.093		0.11
F	0.10	0.04	0.025	0.002	0.100	0.002	0.100
G	0.03				0.06		0.04
H			0.018		0.076		
I		0.03	0.02		0.07		0.08
J	0.074	0.041	0.025	0.148	0.169		0.087
K	0.10	0.03	0.017		0.09		0.08
L		0.040	0.015				0.051
M	0.045	0.020	0.010		0.040		0.040
N	0.030	0.03	0.03	0.03	0.05		0.07
O							
P			0.012	0.012	0.012	0.012	
Q		0.035	0.018		0.063		0.078
R	0.068	0.015	0.008		0.036		0.039

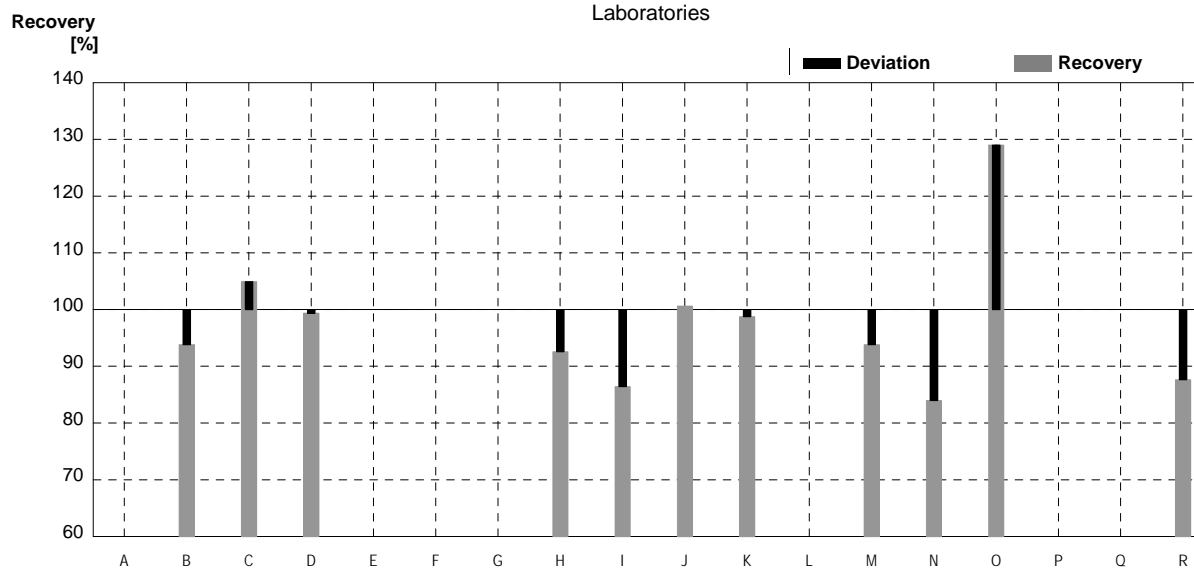
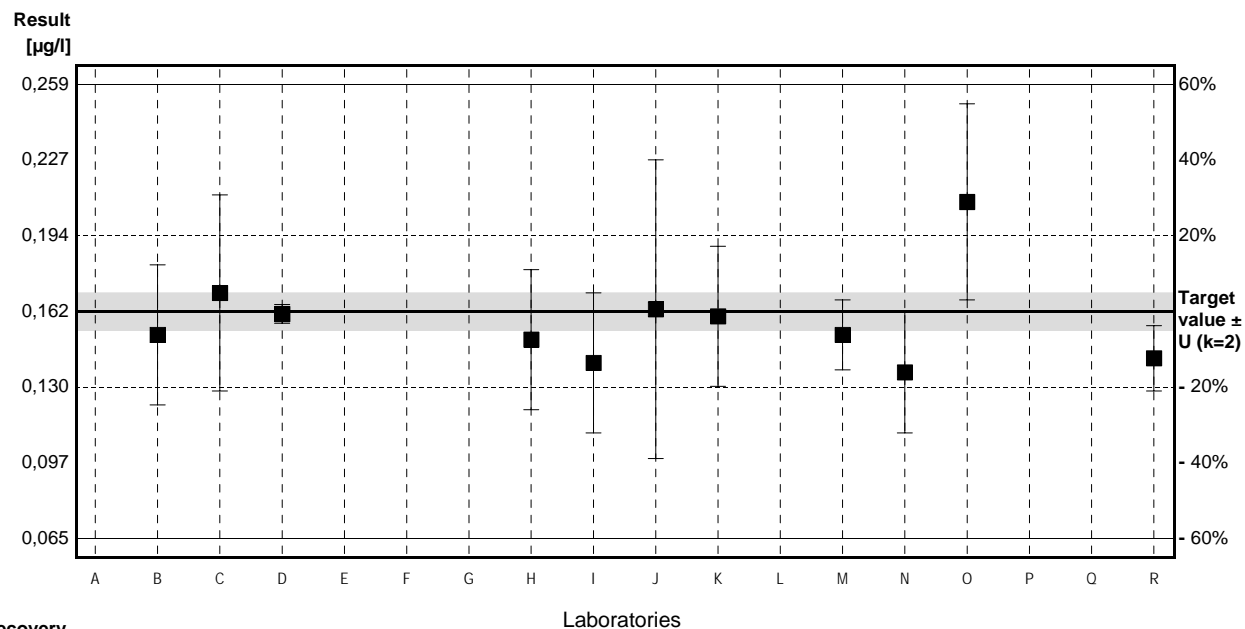
### Sample H84A

#### Parameter 2,6-Dichlorobenzamide

Target value ± U (k=2) 0,162 µg/l ± 0,008 µg/l  
 IFA result ± U (k=2) 0,158 µg/l ± 0,032 µg/l  
 Stability test ± U (k=2) 0,150 µg/l ± 0,030 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	0,152	0,030	µg/l	94%	-0,44
C	0,170	0,042	µg/l	105%	0,35
D	0,161	0,0040	µg/l	99%	-0,04
E			µg/l		
F			µg/l		
G			µg/l		
H	0,15	0,03	µg/l	93%	-0,53
I	0,14	0,03	µg/l	86%	-0,97
J	0,163	0,064	µg/l	101%	0,04
K	0,16	0,03	µg/l	99%	-0,09
L			µg/l		
M	0,152	0,015	µg/l	94%	-0,44
N	0,136	0,026	µg/l	84%	-1,15
O	0,209 *	0,042	µg/l	129%	2,07
P			µg/l		
Q			µg/l		
R	0,142	0,014	µg/l	88%	-0,88

	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,158 ± 0,019	0,153 ± 0,011	µg/l
Recov. ± CI(99%)	97,4 ± 11,8	94,2 ± 7,0	%
SD between labs	0,020	0,011	µg/l
RSD between labs	12,7	7,2	%
n for calculation	11	10	



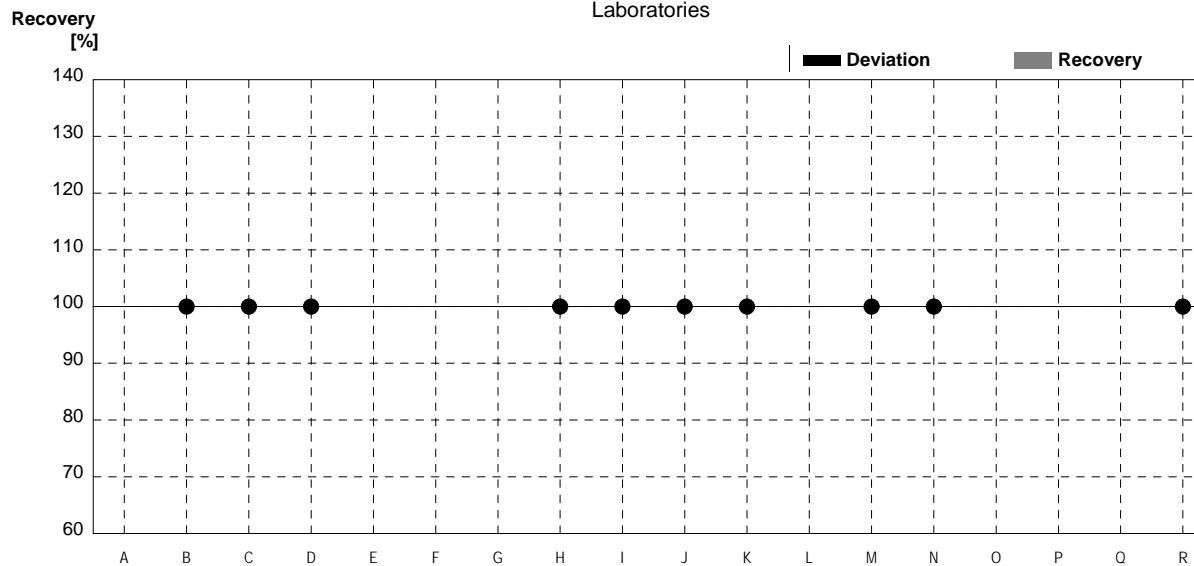
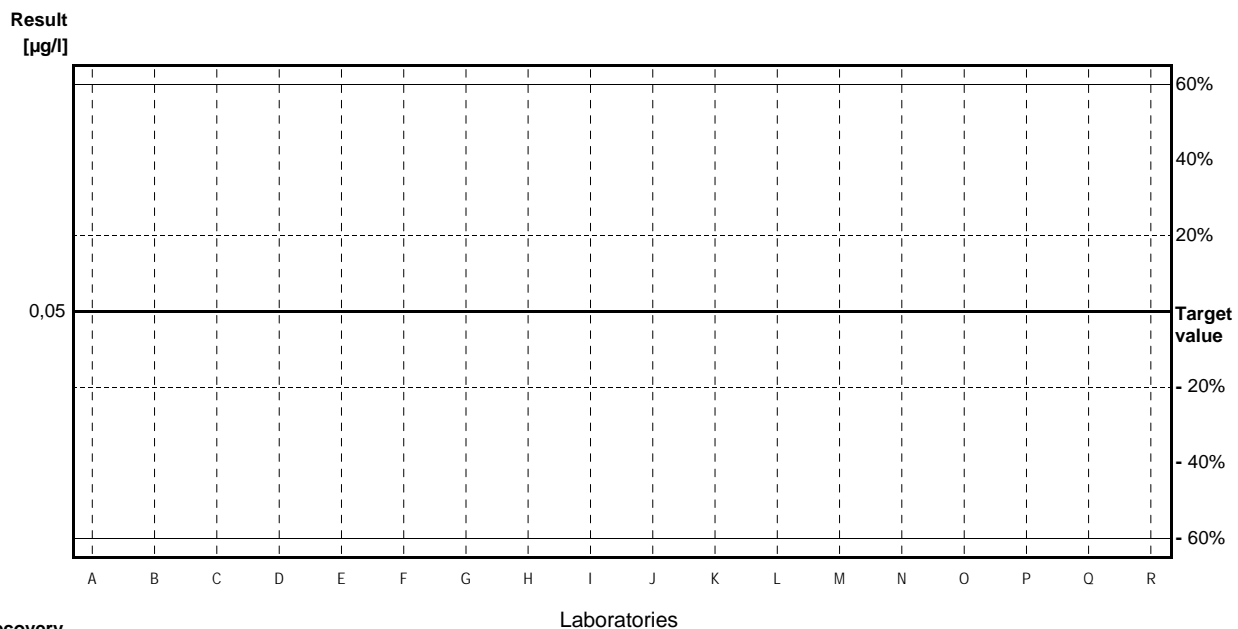


### Sample H84B

#### Parameter 2,6-Dichlorobenzamide

Target value <0,05 µg/l  
 IFA result <0,01 µg/l  
 Stability test <0,01 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	<0,02		µg/l	•	
C	<0,020		µg/l	•	
D	<0,050		µg/l	•	
E			µg/l		
F			µg/l		
G			µg/l		
H	<0,05		µg/l	•	
I	<0,02		µg/l	•	
J	<0,05		µg/l	•	
K	0,03		µg/l	•	
L			µg/l		
M	<0,05		µg/l	•	
N	<0,05		µg/l	•	
O			µg/l		
P			µg/l		
Q			µg/l		
R	<0,030		µg/l	•	



	All results	Outliers excl.	Unit
Mean ± CI(99%)			µg/l
Recov. ± CI(99%)			%
SD between labs			µg/l
RSD between labs			%
n for calculation			

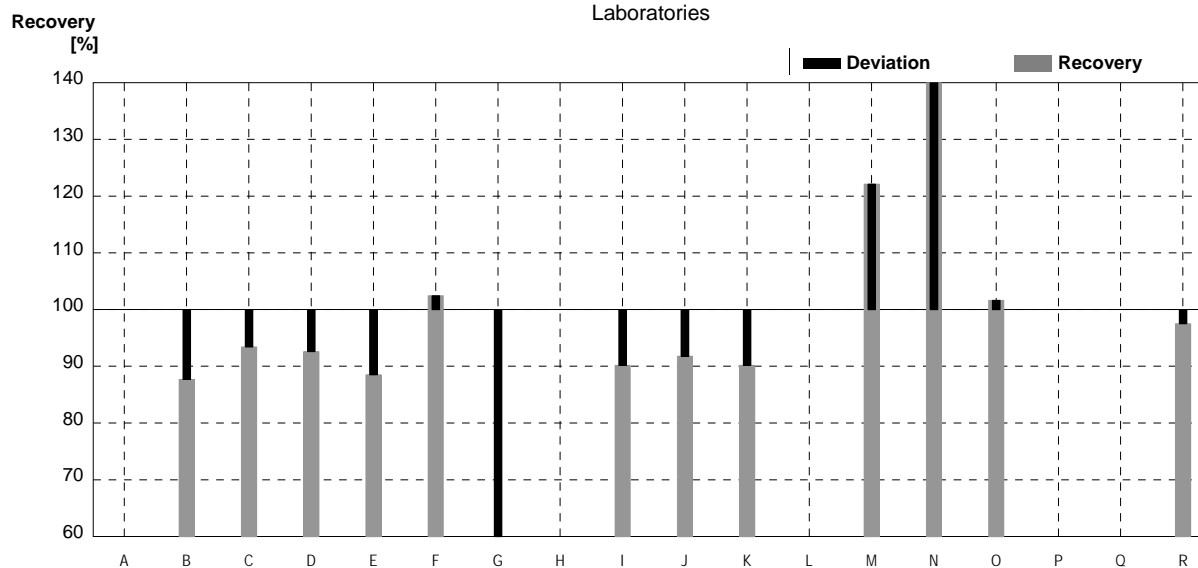
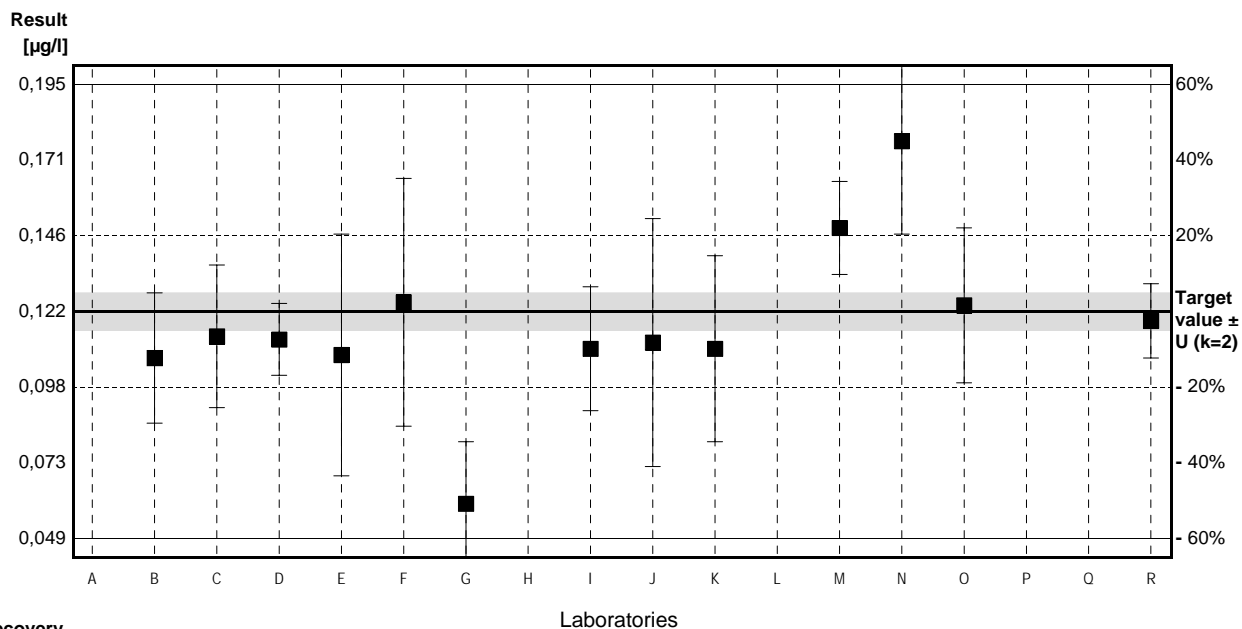
### Sample H84A

#### Parameter Alachlor

Target value  $\pm U$  (k=2) 0,122  $\mu\text{g/l}$   $\pm$  0,006  $\mu\text{g/l}$   
 IFA result  $\pm U$  (k=2) 0,130  $\mu\text{g/l}$   $\pm$  0,022  $\mu\text{g/l}$   
 Stability test  $\pm U$  (k=2) 0,110  $\mu\text{g/l}$   $\pm$  0,019  $\mu\text{g/l}$

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A			$\mu\text{g/l}$		
B	0,107	0,021	$\mu\text{g/l}$	88%	-0,88
C	0,114	0,023	$\mu\text{g/l}$	93%	-0,47
D	0,113	0,0116	$\mu\text{g/l}$	93%	-0,53
E	0,108	0,039	$\mu\text{g/l}$	89%	-0,82
F	0,125	0,04	$\mu\text{g/l}$	102%	0,18
G	0,06 *	0,02	$\mu\text{g/l}$	49%	-3,63
H			$\mu\text{g/l}$		
I	0,11	0,02	$\mu\text{g/l}$	90%	-0,70
J	0,112	0,040	$\mu\text{g/l}$	92%	-0,59
K	0,11	0,03	$\mu\text{g/l}$	90%	-0,70
L			$\mu\text{g/l}$		
M	0,149 *	0,015	$\mu\text{g/l}$	122%	1,58
N	0,177 *	0,030	$\mu\text{g/l}$	145%	3,22
O	0,124	0,025	$\mu\text{g/l}$	102%	0,12
P			$\mu\text{g/l}$		
Q			$\mu\text{g/l}$		
R	0,119	0,012	$\mu\text{g/l}$	98%	-0,18

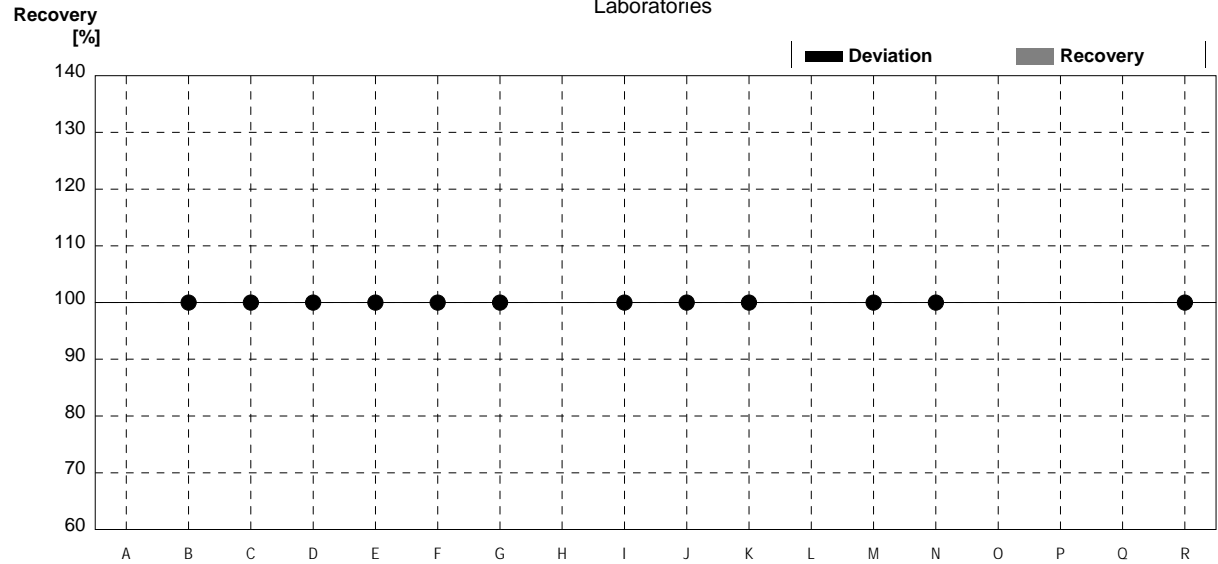
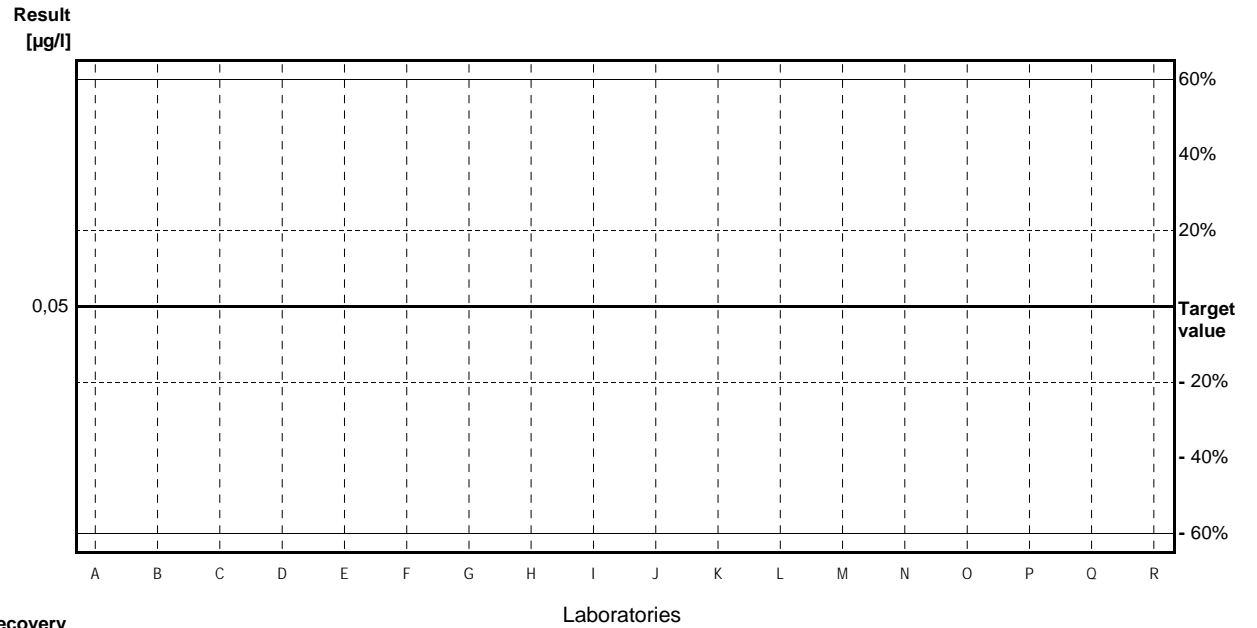
	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	0,118 $\pm$ 0,022	0,114 $\pm$ 0,007	$\mu\text{g/l}$
Recov. $\pm$ CI(99%)	96,3 $\pm$ 18,3	93,6 $\pm$ 5,4	%
SD between labs	0,026	0,006	$\mu\text{g/l}$
RSD between labs	22,4	5,6	%
n for calculation	13	10	



**Sample H84B**  
**Parameter Alachlor**

Target value <0,05 µg/l  
 IFA result <0,01 µg/l  
 Stability test <0,01 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	<0,02		µg/l	•	
C	<0,010		µg/l	•	
D	<0,050		µg/l	•	
E	<0,01		µg/l	•	
F	<0,005	0,002	µg/l	•	
G	<0,02		µg/l	•	
H			µg/l		
I	<0,02		µg/l	•	
J	<0,05		µg/l	•	
K	<0,002		µg/l	•	
L			µg/l		
M	<0,05		µg/l	•	
N	<0,05		µg/l	•	
O			µg/l		
P			µg/l		
Q			µg/l		
R	<0,030		µg/l	•	

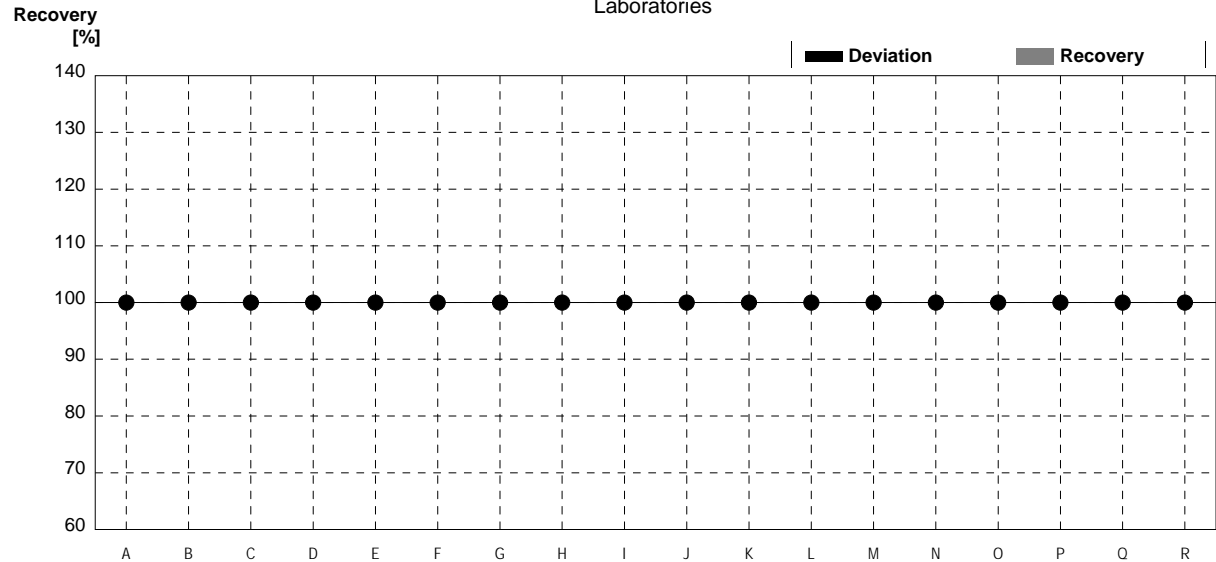
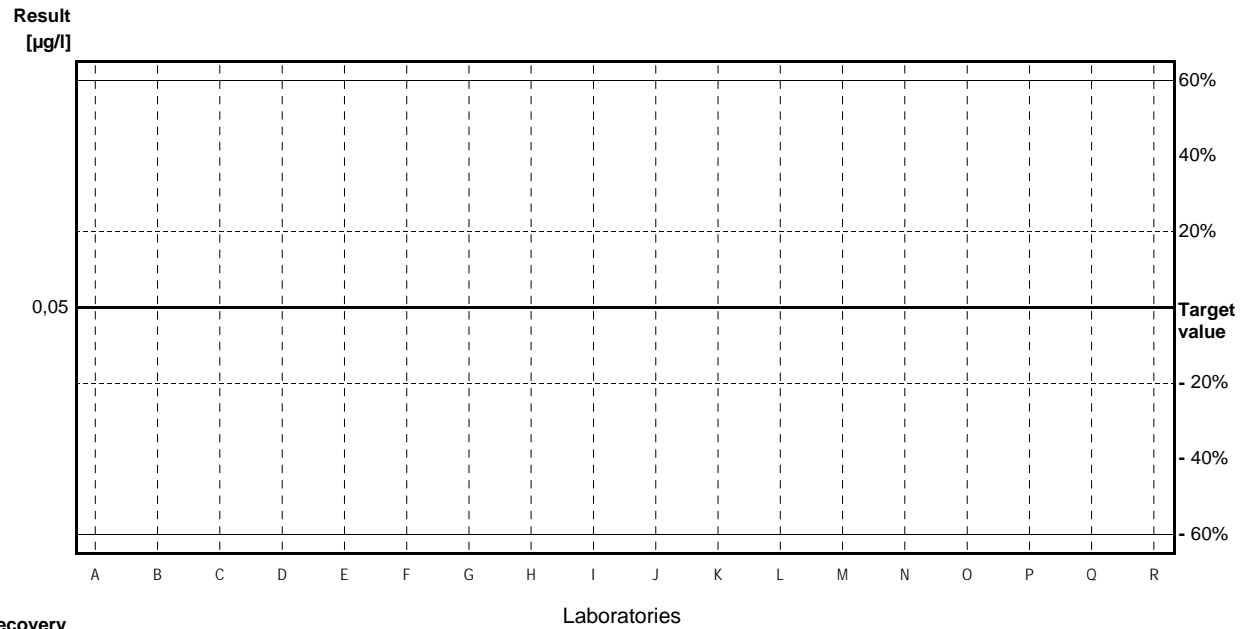


	All results	Outliers excl.	Unit
Mean ± CI(99%)			µg/l
Recov. ± CI(99%)			%
SD between labs			µg/l
RSD between labs			%
n for calculation			

**Sample H84A**  
**Parameter Atrazine**

Target value <0,05 µg/l  
 IFA result <0,01 µg/l  
 Stability test <0,01 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A	<0,025		µg/l	•	
B	<0,02		µg/l	•	
C	<0,010		µg/l	•	
D	<0,050		µg/l	•	
E	<0,01		µg/l	•	
F	<0,005	0,002	µg/l	•	
G	<0,01		µg/l	•	
H	<0,05		µg/l	•	
I	<0,02		µg/l	•	
J	<0,05		µg/l	•	
K	<0,003		µg/l	•	
L	<0,01		µg/l	•	
M	<0,05		µg/l	•	
N	<0,05		µg/l	•	
O	<0,010		µg/l	•	
P	<0,009	0,012	µg/l	•	
Q	<0,005		µg/l	•	
R	<0,030		µg/l	•	



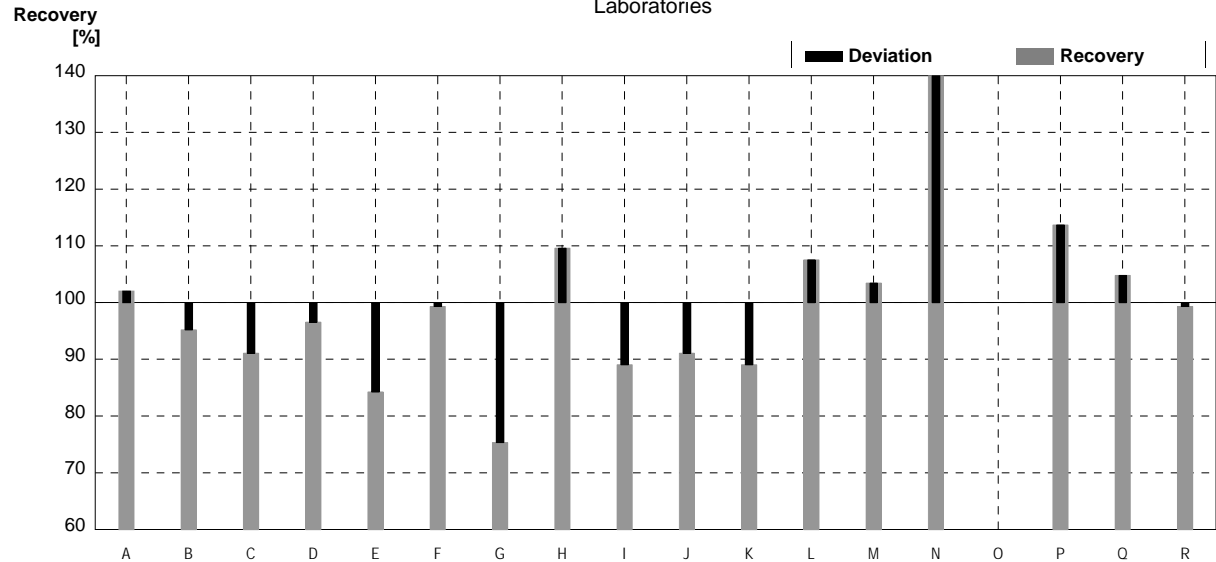
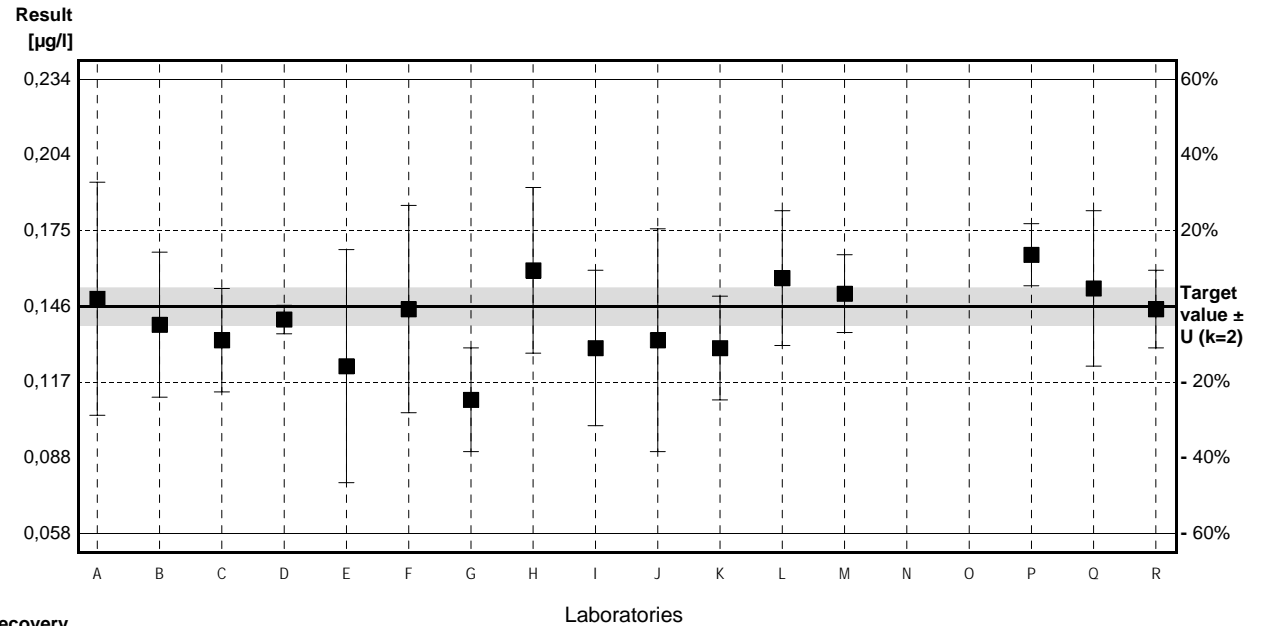
	All results	Outliers excl.	Unit
Mean ± CI(99%)			µg/l
Recov. ± CI(99%)			%
SD between labs			µg/l
RSD between labs			%
n for calculation			

### Sample H84B

#### Parameter Atrazine

Target value  $\pm U$  (k=2) 0,146  $\mu\text{g/l}$   $\pm$  0,007  $\mu\text{g/l}$   
 IFA result  $\pm U$  (k=2) 0,150  $\mu\text{g/l}$   $\pm$  0,026  $\mu\text{g/l}$   
 Stability test  $\pm U$  (k=2) 0,146  $\mu\text{g/l}$   $\pm$  0,025  $\mu\text{g/l}$

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	0,149	0,045	$\mu\text{g/l}$	102%	0,15
B	0,139	0,028	$\mu\text{g/l}$	95%	-0,34
C	0,133	0,020	$\mu\text{g/l}$	91%	-0,64
D	0,141	0,0055	$\mu\text{g/l}$	97%	-0,24
E	0,123	0,045	$\mu\text{g/l}$	84%	-1,13
F	0,145	0,04	$\mu\text{g/l}$	99%	-0,05
G	0,11	0,02	$\mu\text{g/l}$	75%	-1,76
H	0,16	0,032	$\mu\text{g/l}$	110%	0,68
I	0,13	0,03	$\mu\text{g/l}$	89%	-0,78
J	0,133	0,043	$\mu\text{g/l}$	91%	-0,64
K	0,13	0,02	$\mu\text{g/l}$	89%	-0,78
L	0,157	0,026	$\mu\text{g/l}$	108%	0,54
M	0,151	0,015	$\mu\text{g/l}$	103%	0,24
N	0,293 *	0,04	$\mu\text{g/l}$	201%	7,19
O			$\mu\text{g/l}$		
P	0,166	0,012	$\mu\text{g/l}$	114%	0,98
Q	0,153	0,030	$\mu\text{g/l}$	105%	0,34
R	0,145	0,015	$\mu\text{g/l}$	99%	-0,05



	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	0,150 $\pm$ 0,028	0,142 $\pm$ 0,011	$\mu\text{g/l}$
Recov. $\pm$ CI(99%)	103,1 $\pm$ 19,1	97,0 $\pm$ 7,4	%
SD between labs	0,039	0,015	$\mu\text{g/l}$
RSD between labs	26,2	10,4	%
n for calculation	17	16	

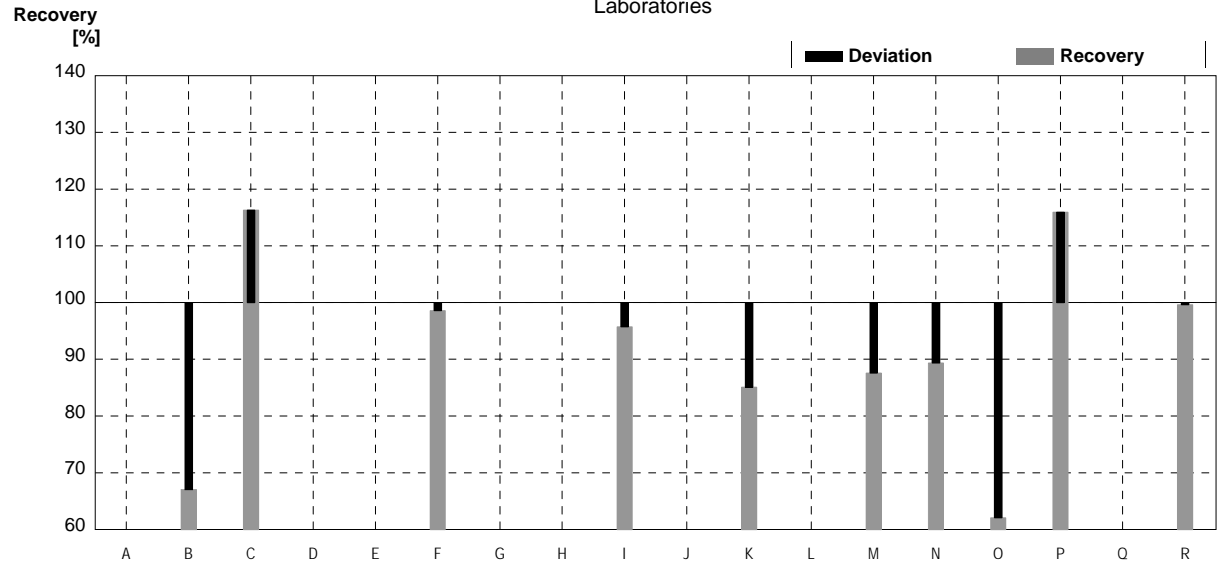
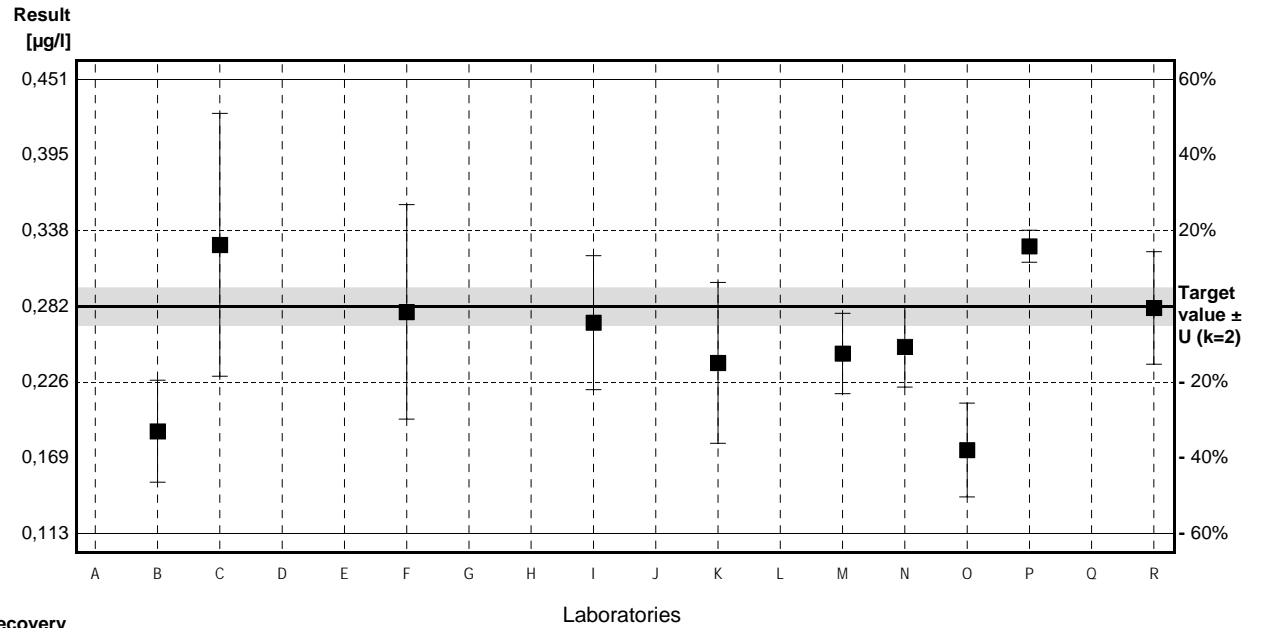
### Sample H84A

#### Parameter Bromacil

Target value  $\pm U$  (k=2) 0,282  $\mu\text{g/l}$   $\pm$  0,014  $\mu\text{g/l}$   
 IFA result  $\pm U$  (k=2) 0,289  $\mu\text{g/l}$   $\pm$  0,058  $\mu\text{g/l}$   
 Stability test  $\pm U$  (k=2) 0,316  $\mu\text{g/l}$   $\pm$  0,063  $\mu\text{g/l}$

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A			$\mu\text{g/l}$		
B	0,189	0,038	$\mu\text{g/l}$	67%	-2,36
C	0,328	0,098	$\mu\text{g/l}$	116%	1,17
D			$\mu\text{g/l}$		
E			$\mu\text{g/l}$		
F	0,278	0,080	$\mu\text{g/l}$	99%	-0,10
G			$\mu\text{g/l}$		
H			$\mu\text{g/l}$		
I	0,27	0,05	$\mu\text{g/l}$	96%	-0,30
J	n.a.		$\mu\text{g/l}$		
K	0,24	0,06	$\mu\text{g/l}$	85%	-1,06
L			$\mu\text{g/l}$		
M	0,247	0,030	$\mu\text{g/l}$	88%	-0,89
N	0,252	0,030	$\mu\text{g/l}$	89%	-0,76
O	0,175	0,035	$\mu\text{g/l}$	62%	-2,71
P	0,327	0,012	$\mu\text{g/l}$	116%	1,14
Q			$\mu\text{g/l}$		
R	0,281	0,042	$\mu\text{g/l}$	100%	-0,03

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	0,259 $\pm$ 0,052	0,259 $\pm$ 0,052	$\mu\text{g/l}$
Recov. $\pm$ CI(99%)	91,7 $\pm$ 18,5	91,7 $\pm$ 18,5	%
SD between labs	0,050	0,050	$\mu\text{g/l}$
RSD between labs	19,5	19,5	%
n for calculation	10	10	



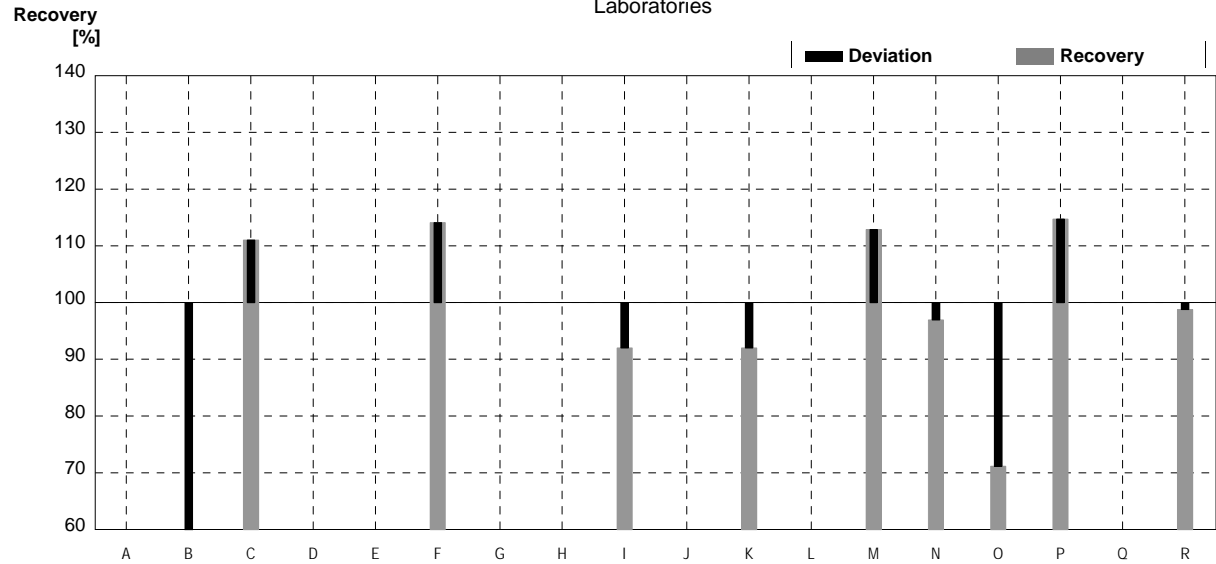
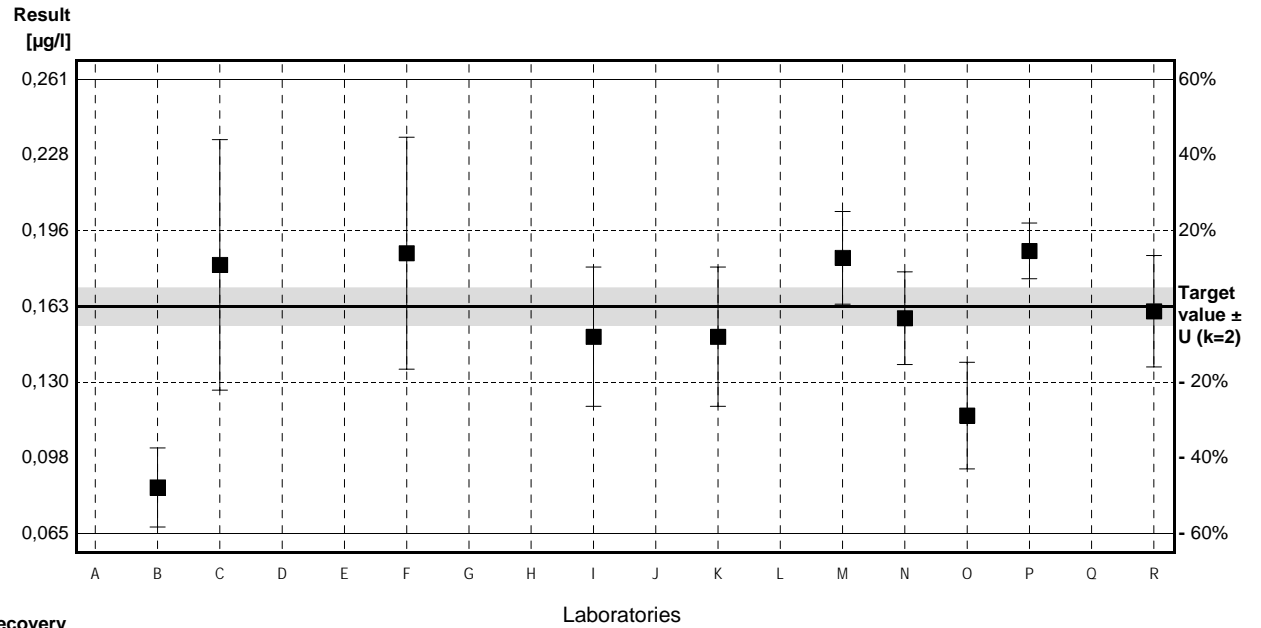
# Sample H84B

## Parameter Bromacil

Target value  $\pm U$  (k=2) 0,163  $\mu\text{g/l}$   $\pm$  0,008  $\mu\text{g/l}$   
 IFA result  $\pm U$  (k=2) 0,163  $\mu\text{g/l}$   $\pm$  0,033  $\mu\text{g/l}$   
 Stability test  $\pm U$  (k=2) 0,168  $\mu\text{g/l}$   $\pm$  0,034  $\mu\text{g/l}$

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A			$\mu\text{g/l}$		
B	0,085	0,017	$\mu\text{g/l}$	52%	-3,42
C	0,181	0,054	$\mu\text{g/l}$	111%	0,79
D			$\mu\text{g/l}$		
E			$\mu\text{g/l}$		
F	0,186	0,05	$\mu\text{g/l}$	114%	1,01
G			$\mu\text{g/l}$		
H			$\mu\text{g/l}$		
I	0,15	0,03	$\mu\text{g/l}$	92%	-0,57
J	n.a.		$\mu\text{g/l}$		
K	0,15	0,03	$\mu\text{g/l}$	92%	-0,57
L			$\mu\text{g/l}$		
M	0,184	0,020	$\mu\text{g/l}$	113%	0,92
N	0,158	0,02	$\mu\text{g/l}$	97%	-0,22
O	0,116	0,023	$\mu\text{g/l}$	71%	-2,06
P	0,187	0,012	$\mu\text{g/l}$	115%	1,05
Q			$\mu\text{g/l}$		
R	0,161	0,024	$\mu\text{g/l}$	99%	-0,09

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	0,156 $\pm$ 0,035	0,156 $\pm$ 0,035	$\mu\text{g/l}$
Recov. $\pm$ CI(99%)	95,6 $\pm$ 21,2	95,6 $\pm$ 21,2	%
SD between labs	0,033	0,033	$\mu\text{g/l}$
RSD between labs	21,4	21,4	%
n for calculation	10	10	

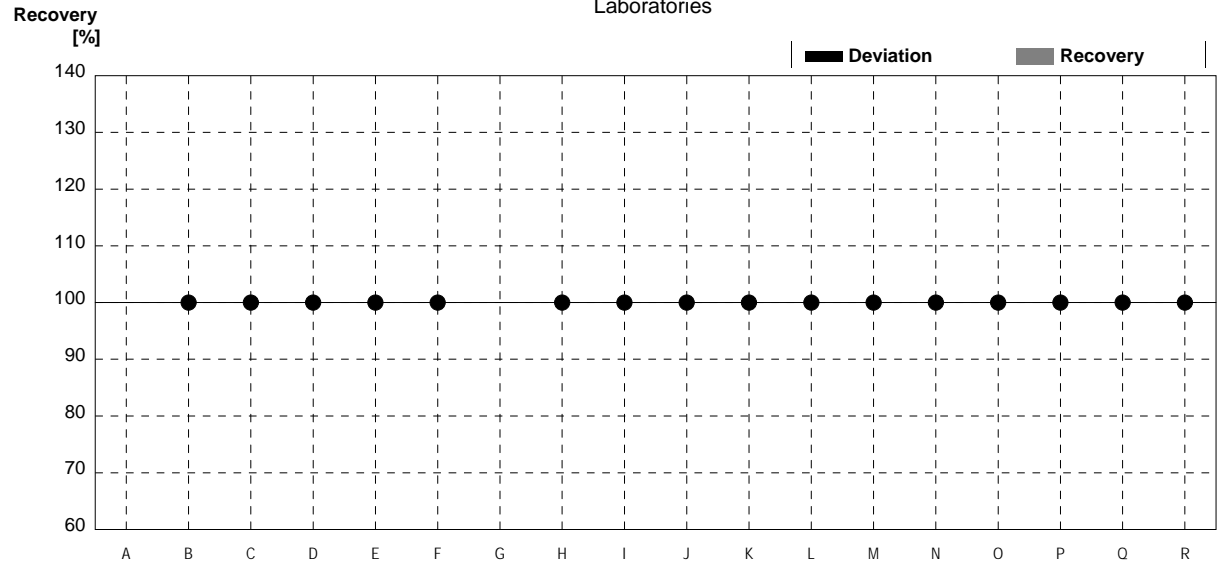
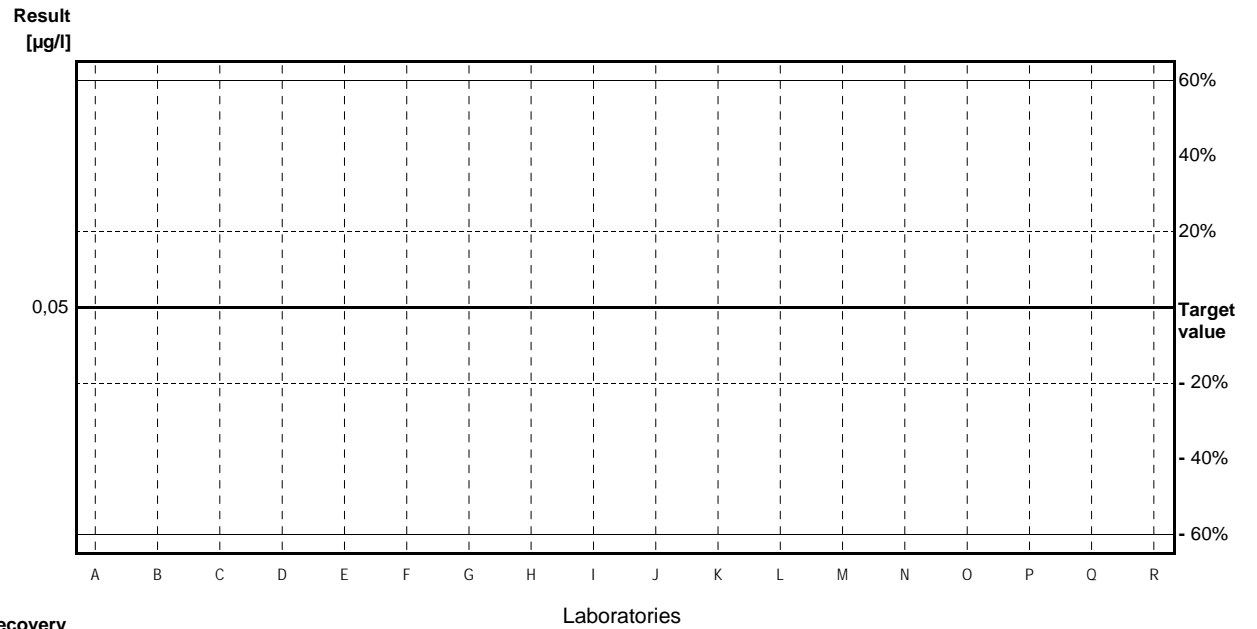


# Sample H84A

## Parameter Cyanazine

Target value <0,05 µg/l  
 IFA result <0,01 µg/l  
 Stability test <0,01 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	<0,02		µg/l	•	
C	<0,015		µg/l	•	
D	<0,050		µg/l	•	
E	<0,01		µg/l	•	
F	<0,005	0,002	µg/l	•	
G			µg/l		
H	<0,05		µg/l	•	
I	<0,02		µg/l	•	
J	<0,05		µg/l	•	
K	<0,003		µg/l	•	
L	<0,01		µg/l	•	
M	<0,05		µg/l	•	
N	<0,05		µg/l	•	
O	<0,010		µg/l	•	
P	<0,010	0,012	µg/l	•	
Q	<0,005		µg/l	•	
R	<0,030		µg/l	•	



	All results	Outliers excl.	Unit
Mean ± CI(99%)			µg/l
Recov. ± CI(99%)			%
SD between labs			µg/l
RSD between labs			%
n for calculation			

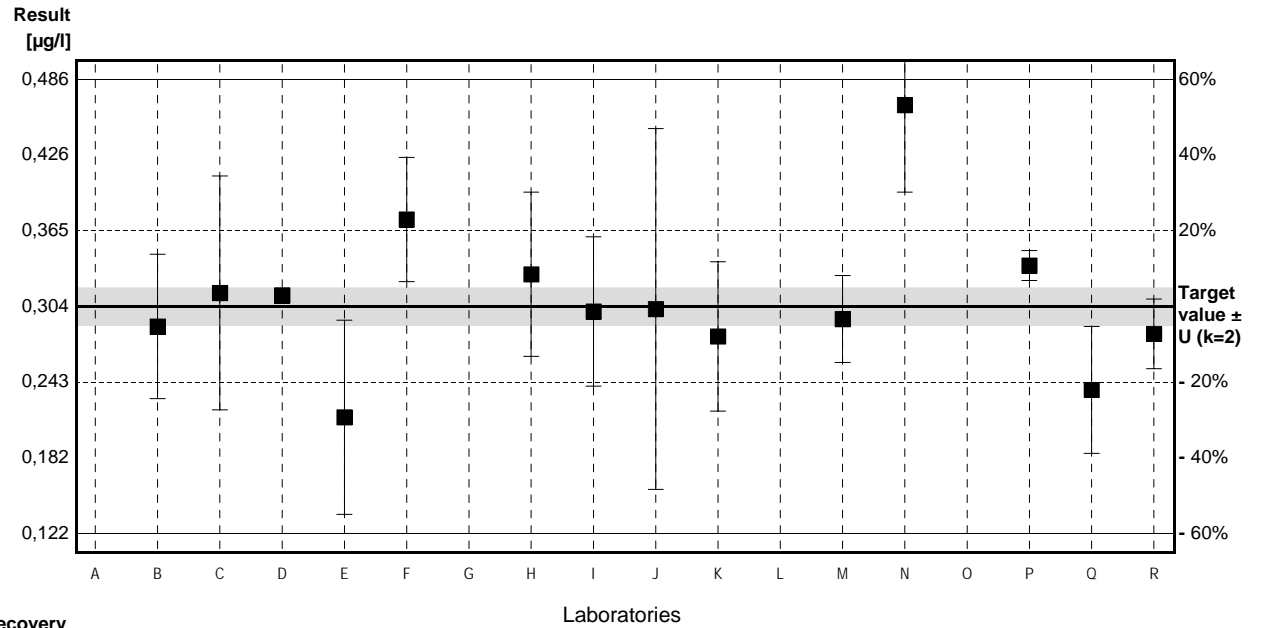


# Sample H84B

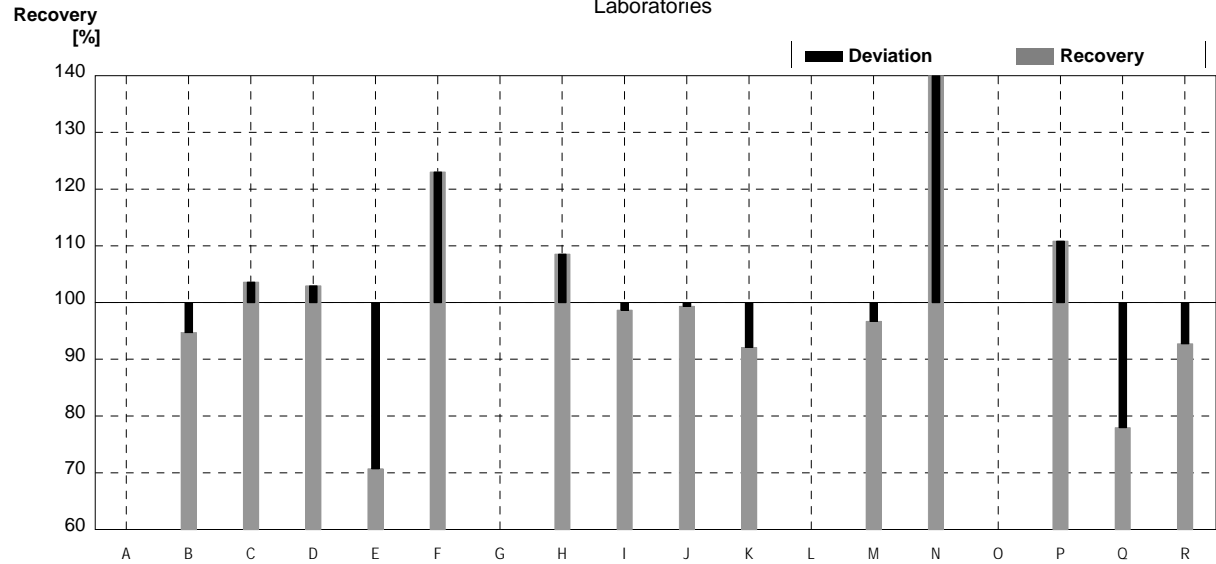
## Parameter Cyanazine

Target value  $\pm U$  (k=2) 0,304  $\mu\text{g/l}$   $\pm$  0,015  $\mu\text{g/l}$   
 IFA result  $\pm U$  (k=2) 0,301  $\mu\text{g/l}$   $\pm$  0,057  $\mu\text{g/l}$   
 Stability test  $\pm U$  (k=2) 0,297  $\mu\text{g/l}$   $\pm$  0,056  $\mu\text{g/l}$

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A			$\mu\text{g/l}$		
B	0,288	0,058	$\mu\text{g/l}$	95%	-0,38
C	0,315	0,094	$\mu\text{g/l}$	104%	0,26
D	0,313	0,0057	$\mu\text{g/l}$	103%	0,21
E	0,215	0,078	$\mu\text{g/l}$	71%	-2,09
F	0,374	0,05	$\mu\text{g/l}$	123%	1,64
G			$\mu\text{g/l}$		
H	0,33	0,066	$\mu\text{g/l}$	109%	0,61
I	0,30	0,06	$\mu\text{g/l}$	99%	-0,09
J	0,302	0,145	$\mu\text{g/l}$	99%	-0,05
K	0,28	0,06	$\mu\text{g/l}$	92%	-0,56
L			$\mu\text{g/l}$		
M	0,294	0,035	$\mu\text{g/l}$	97%	-0,23
N	0,466 *	0,07	$\mu\text{g/l}$	153%	3,81
O			$\mu\text{g/l}$		
P	0,337	0,012	$\mu\text{g/l}$	111%	0,78
Q	0,237	0,051	$\mu\text{g/l}$	78%	-1,57
R	0,282	0,028	$\mu\text{g/l}$	93%	-0,52



	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	0,310 $\pm$ 0,048	0,297 $\pm$ 0,035	$\mu\text{g/l}$
Recov. $\pm$ CI(99%)	101,8 $\pm$ 15,8	97,8 $\pm$ 11,4	%
SD between labs	0,060	0,041	$\mu\text{g/l}$
RSD between labs	19,3	13,8	%
n for calculation	14	13	

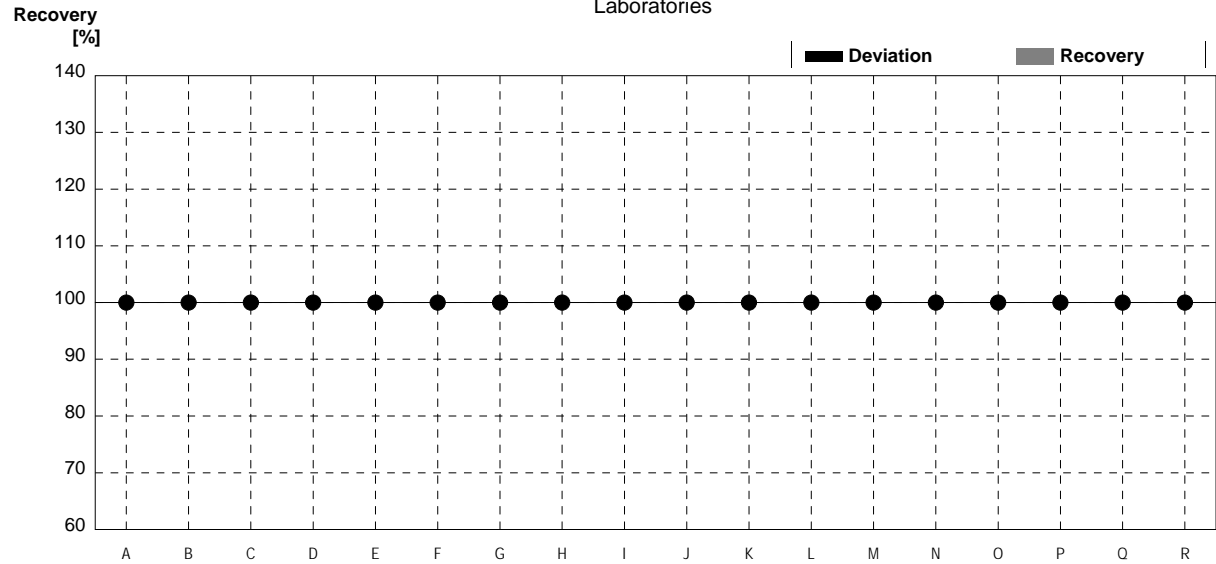
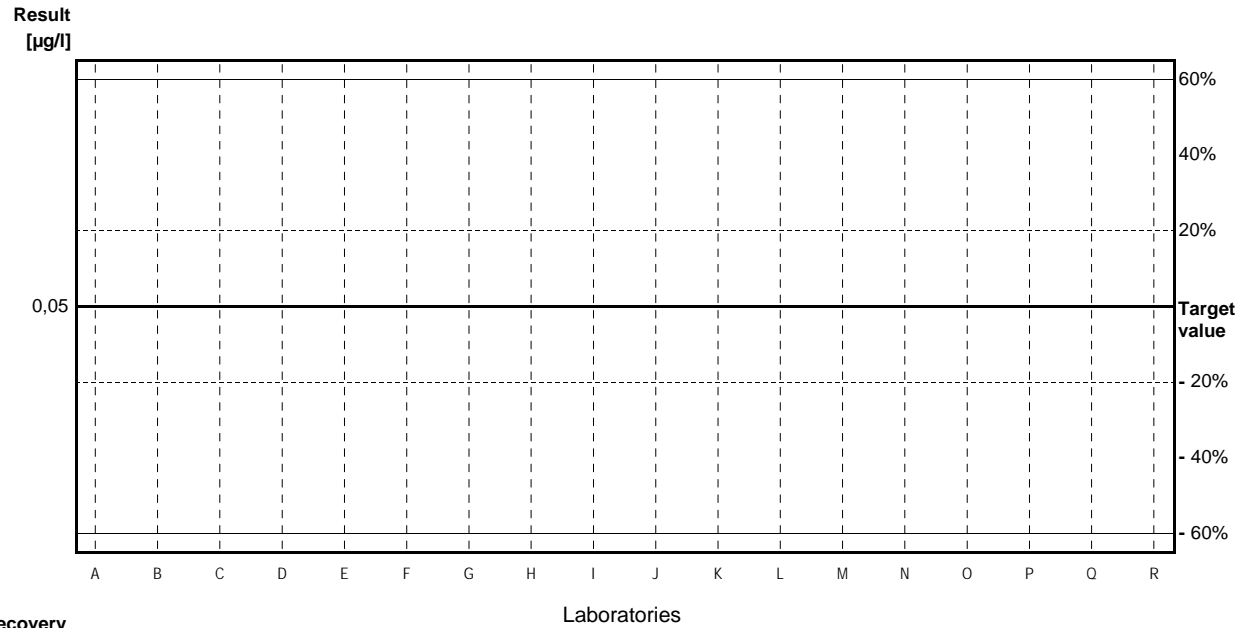


# Sample H84A

## Parameter DEAtrazine

Target value <0,05 µg/l  
 IFA result <0,01 µg/l  
 Stability test <0,01 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A	<0,025		µg/l	•	
B	<0,02		µg/l	•	
C	<0,010		µg/l	•	
D	<0,050		µg/l	•	
E	<0,01		µg/l	•	
F	<0,005	0,002	µg/l	•	
G	<0,02		µg/l	•	
H	<0,05		µg/l	•	
I	<0,02		µg/l	•	
J	<0,05		µg/l	•	
K	<0,001		µg/l	•	
L	<0,01		µg/l	•	
M	<0,05		µg/l	•	
N	<0,05		µg/l	•	
O	<0,010		µg/l	•	
P	<0,020	0,012	µg/l	•	
Q	<0,005		µg/l	•	
R	<0,030		µg/l	•	



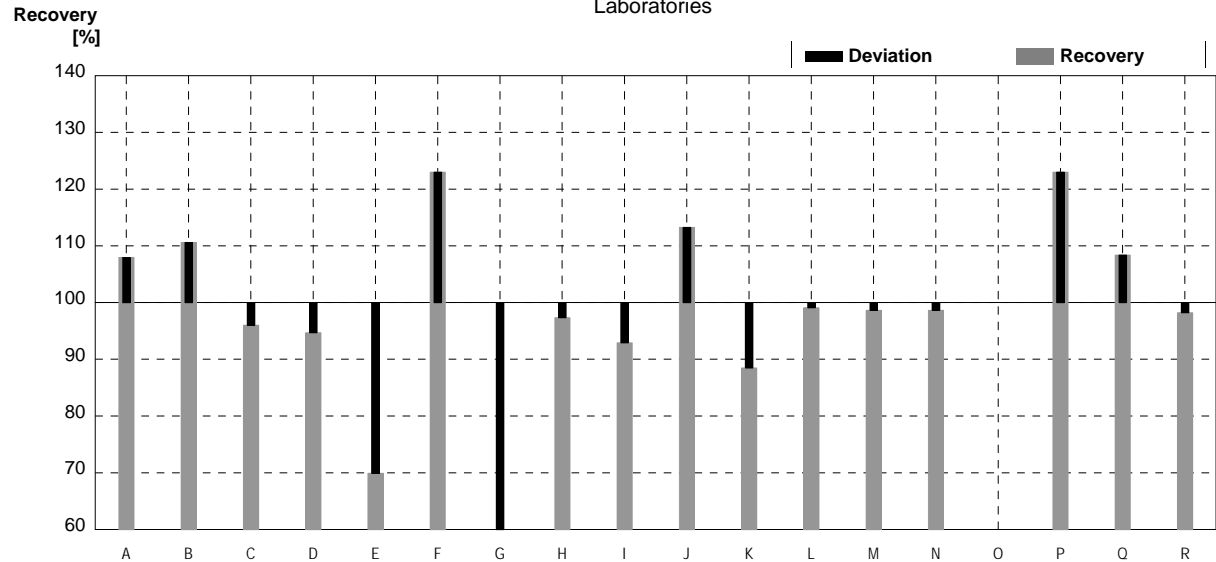
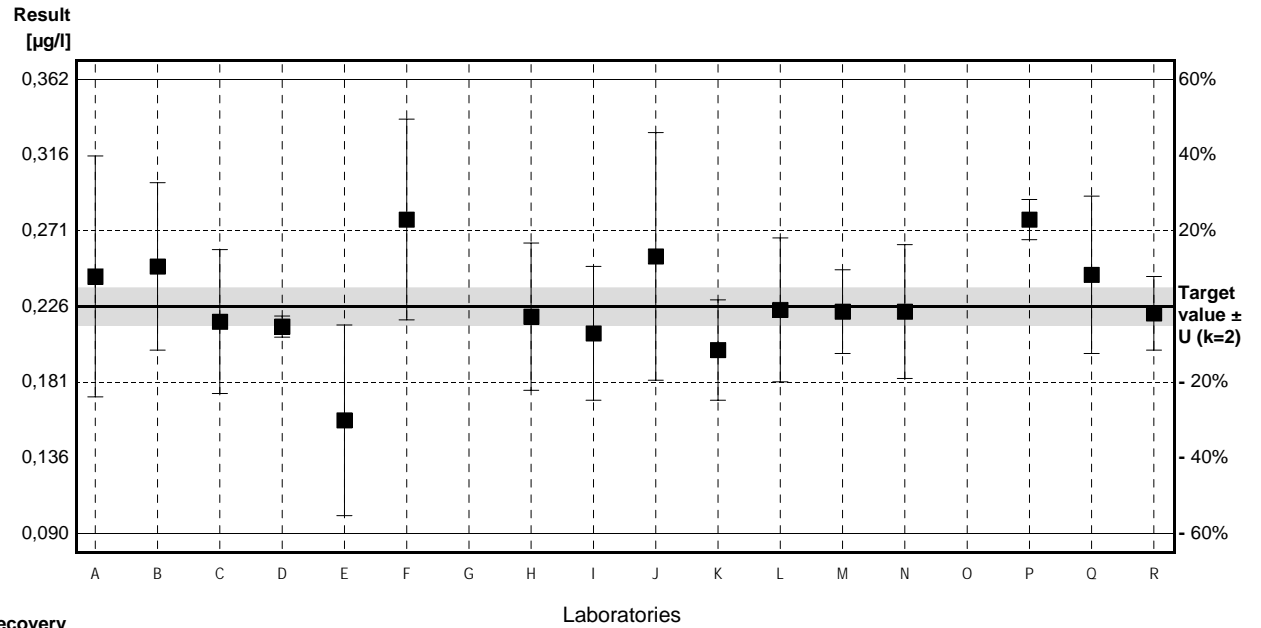
	All results	Outliers excl.	Unit
Mean ± CI(99%)			µg/l
Recov. ± CI(99%)			%
SD between labs			µg/l
RSD between labs			%
n for calculation			

### Sample H84B

#### Parameter DEAtrazine

Target value  $\pm U$  (k=2) 0,226  $\mu\text{g/l}$   $\pm$  0,011  $\mu\text{g/l}$   
 IFA result  $\pm U$  (k=2) 0,211  $\mu\text{g/l}$   $\pm$  0,021  $\mu\text{g/l}$   
 Stability test  $\pm U$  (k=2) 0,214  $\mu\text{g/l}$   $\pm$  0,021  $\mu\text{g/l}$

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	0,244	0,072	$\mu\text{g/l}$	108%	0,50
B	0,250	0,050	$\mu\text{g/l}$	111%	0,66
C	0,217	0,043	$\mu\text{g/l}$	96%	-0,25
D	0,214	0,0063	$\mu\text{g/l}$	95%	-0,33
E	0,158	0,057	$\mu\text{g/l}$	70%	-1,88
F	0,278	0,06	$\mu\text{g/l}$	123%	1,44
G	0,07 *	0,03	$\mu\text{g/l}$	31%	-4,31
H	0,22	0,044	$\mu\text{g/l}$	97%	-0,17
I	0,21	0,04	$\mu\text{g/l}$	93%	-0,44
J	0,256	0,074	$\mu\text{g/l}$	113%	0,83
K	0,20	0,03	$\mu\text{g/l}$	88%	-0,72
L	0,224	0,043	$\mu\text{g/l}$	99%	-0,06
M	0,223	0,025	$\mu\text{g/l}$	99%	-0,08
N	0,223	0,04	$\mu\text{g/l}$	99%	-0,08
O			$\mu\text{g/l}$		
P	0,278	0,012	$\mu\text{g/l}$	123%	1,44
Q	0,245	0,047	$\mu\text{g/l}$	108%	0,53
R	0,222	0,022	$\mu\text{g/l}$	98%	-0,11



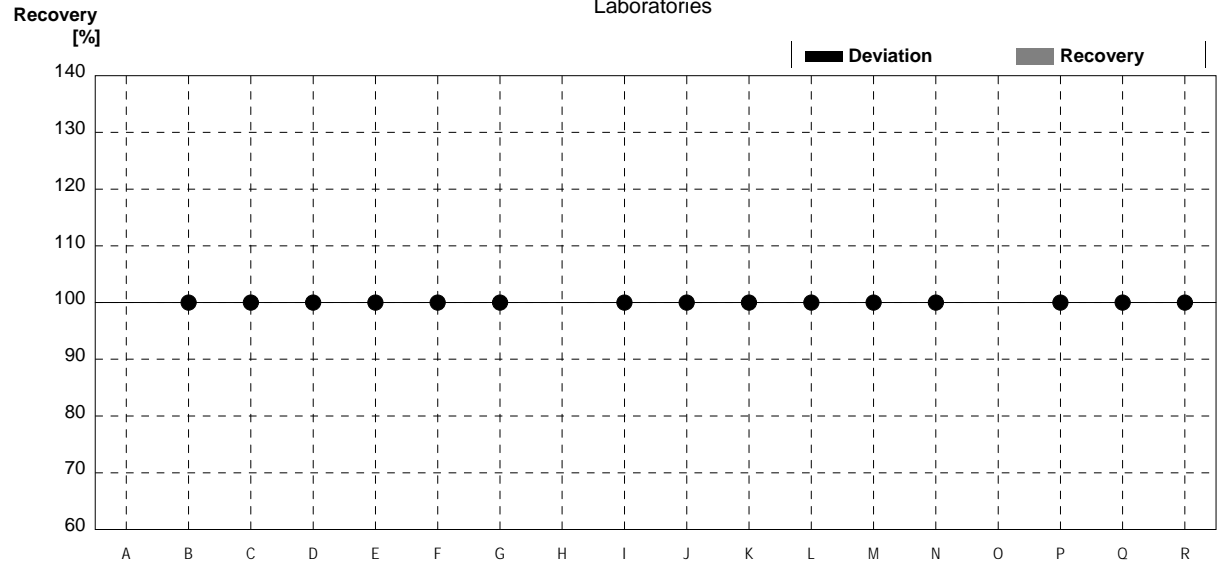
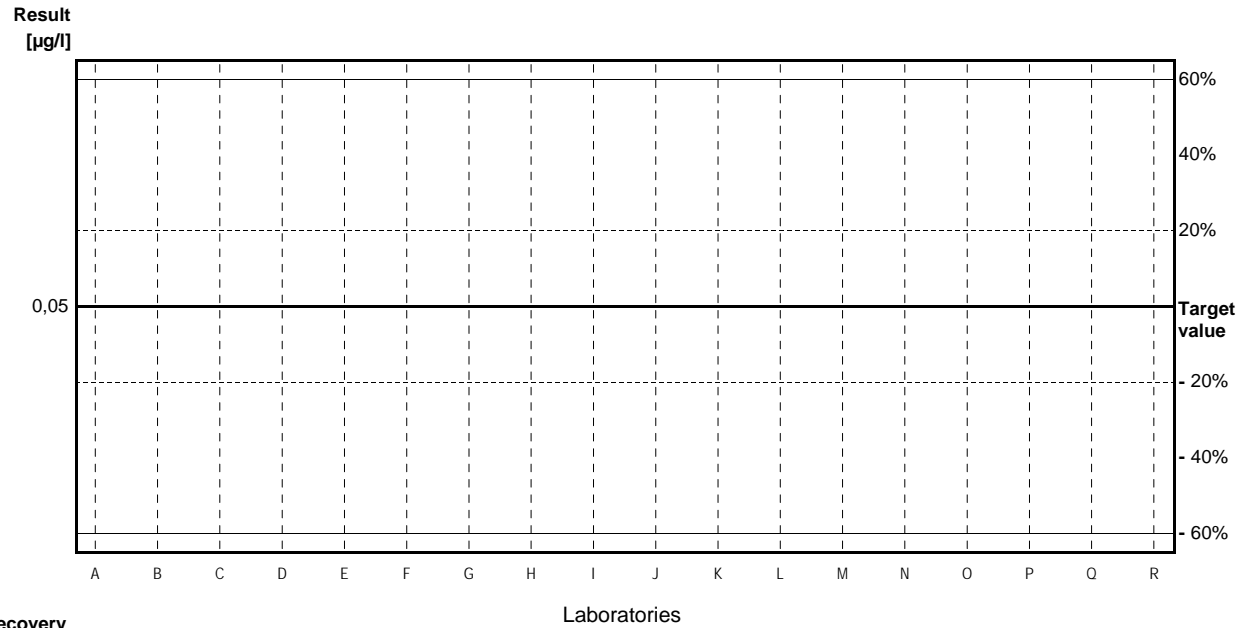
	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	0,220 $\pm$ 0,034	0,229 $\pm$ 0,022	$\mu\text{g/l}$
Recov. $\pm$ CI(99%)	97,1 $\pm$ 15,1	101,3 $\pm$ 9,7	%
SD between labs	0,048	0,030	$\mu\text{g/l}$
RSD between labs	21,9	13,0	%
n for calculation	17	16	

### Sample H84A

#### Parameter DETerbuthylazine

Target value <0,05 µg/l  
 IFA result <0,01 µg/l  
 Stability test <0,01 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	<0,02		µg/l	•	
C	<0,010		µg/l	•	
D	<0,050		µg/l	•	
E	<0,01		µg/l	•	
F	<0,005	0,002	µg/l	•	
G	<0,02		µg/l	•	
H			µg/l		
I	<0,02		µg/l	•	
J	<0,05		µg/l	•	
K	<0,005		µg/l	•	
L	<0,01		µg/l	•	
M	<0,05		µg/l	•	
N	<0,05		µg/l	•	
O			µg/l		
P	<0,006	0,012	µg/l	•	
Q	<0,005		µg/l	•	
R	<0,030		µg/l	•	



	All results	Outliers excl.	Unit
Mean ± CI(99%)			µg/l
Recov. ± CI(99%)			%
SD between labs			µg/l
RSD between labs			%
n for calculation			

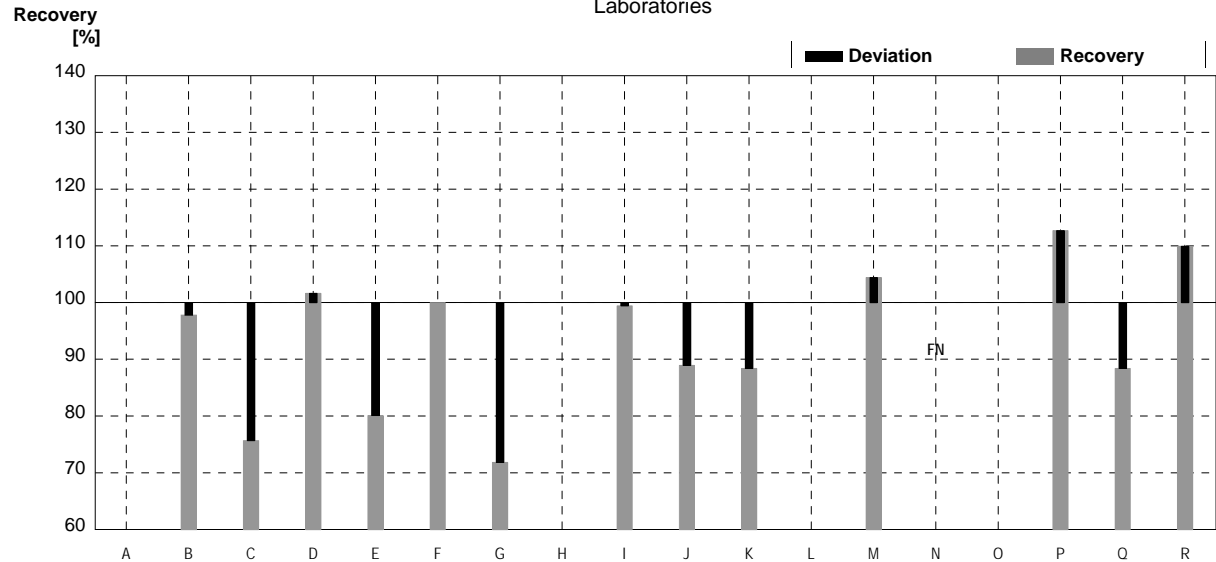
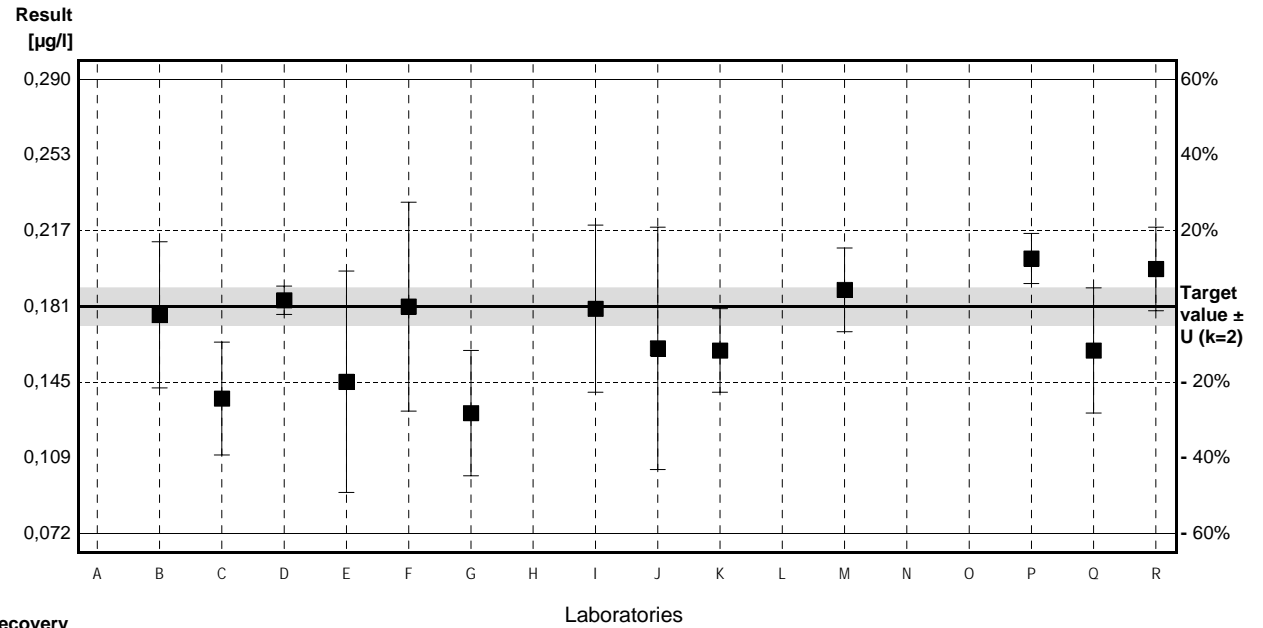
### Sample H84B

#### Parameter DETerbuthylazine

Target value ± U (k=2) 0,181 µg/l ± 0,009 µg/l  
 IFA result ± U (k=2) 0,189 µg/l ± 0,028 µg/l  
 Stability test ± U (k=2) 0,189 µg/l ± 0,028 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	0,177	0,035	µg/l	98%	-0,15
C	0,137	0,027	µg/l	76%	-1,62
D	0,184	0,0068	µg/l	102%	0,11
E	0,145	0,053	µg/l	80%	-1,33
F	0,181	0,05	µg/l	100%	0,00
G	0,13	0,03	µg/l	72%	-1,88
H			µg/l		
I	0,18	0,04	µg/l	99%	-0,04
J	0,161	0,058	µg/l	89%	-0,74
K	0,16	0,02	µg/l	88%	-0,77
L			µg/l		
M	0,189	0,020	µg/l	104%	0,29
N	<0,05		µg/l	FN	
O			µg/l		
P	0,204	0,012	µg/l	113%	0,85
Q	0,160	0,030	µg/l	88%	-0,77
R	0,199	0,020	µg/l	110%	0,66

	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,170 ± 0,020	0,170 ± 0,020	µg/l
Recov. ± CI(99%)	93,8 ± 10,8	93,8 ± 10,8	%
SD between labs	0,023	0,023	µg/l
RSD between labs	13,6	13,6	%
n for calculation	13	13	

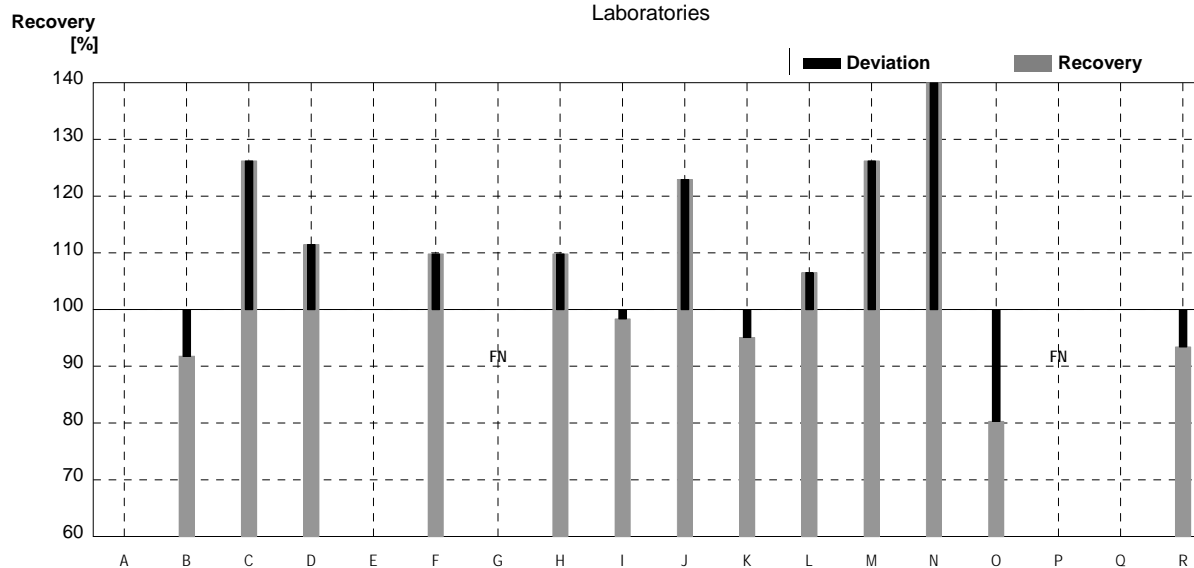
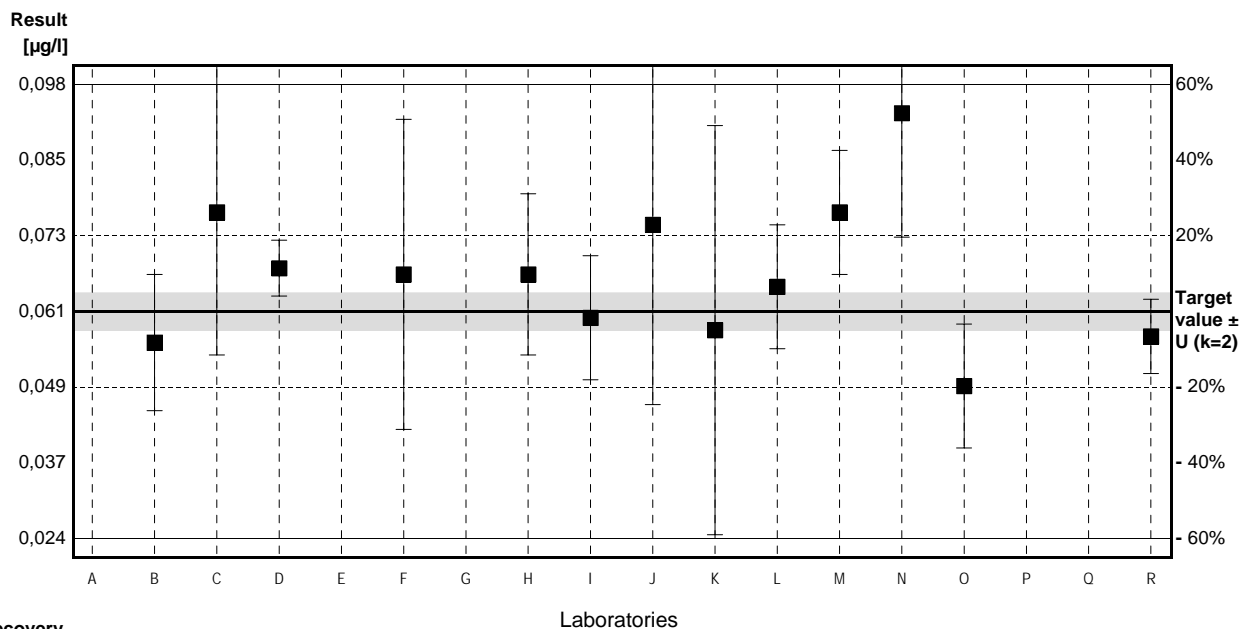


### Sample H84A

#### Parameter DIAtrazine

Target value  $\pm U$  (k=2) 0,061  $\mu\text{g/l}$   $\pm$  0,003  $\mu\text{g/l}$   
 IFA result  $\pm U$  (k=2) 0,067  $\mu\text{g/l}$   $\pm$  0,005  $\mu\text{g/l}$   
 Stability test  $\pm U$  (k=2) 0,064  $\mu\text{g/l}$   $\pm$  0,005  $\mu\text{g/l}$

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A			$\mu\text{g/l}$		
B	0,056	0,011	$\mu\text{g/l}$	92%	-0,51
C	0,077	0,023	$\mu\text{g/l}$	126%	1,64
D	0,068	0,0045	$\mu\text{g/l}$	111%	0,72
E			$\mu\text{g/l}$		
F	0,067	0,025	$\mu\text{g/l}$	110%	0,61
G	<0,02		$\mu\text{g/l}$	FN	
H	0,067	0,013	$\mu\text{g/l}$	110%	0,61
I	0,06	0,01	$\mu\text{g/l}$	98%	-0,10
J	0,075	0,029	$\mu\text{g/l}$	123%	1,43
K	0,058	0,033	$\mu\text{g/l}$	95%	-0,31
L	0,065	0,010	$\mu\text{g/l}$	107%	0,41
M	0,077	0,010	$\mu\text{g/l}$	126%	1,64
N	0,093	0,02	$\mu\text{g/l}$	152%	3,28
O	0,049	0,010	$\mu\text{g/l}$	80%	-1,23
P	<0,039	0,012	$\mu\text{g/l}$	FN	
Q			$\mu\text{g/l}$		
R	0,057	0,006	$\mu\text{g/l}$	93%	-0,41



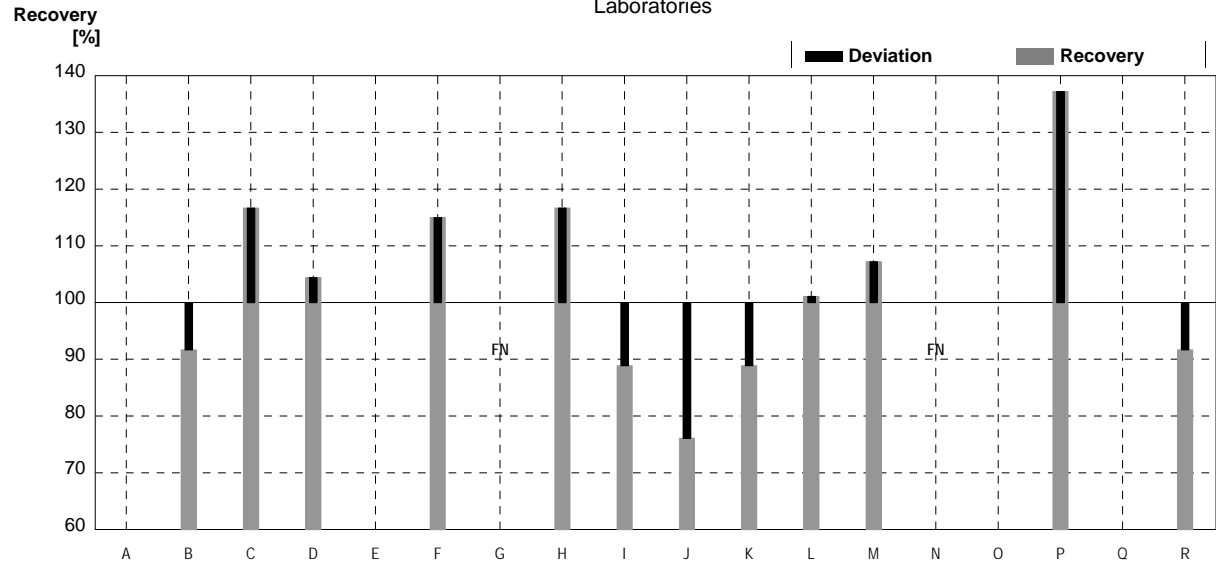
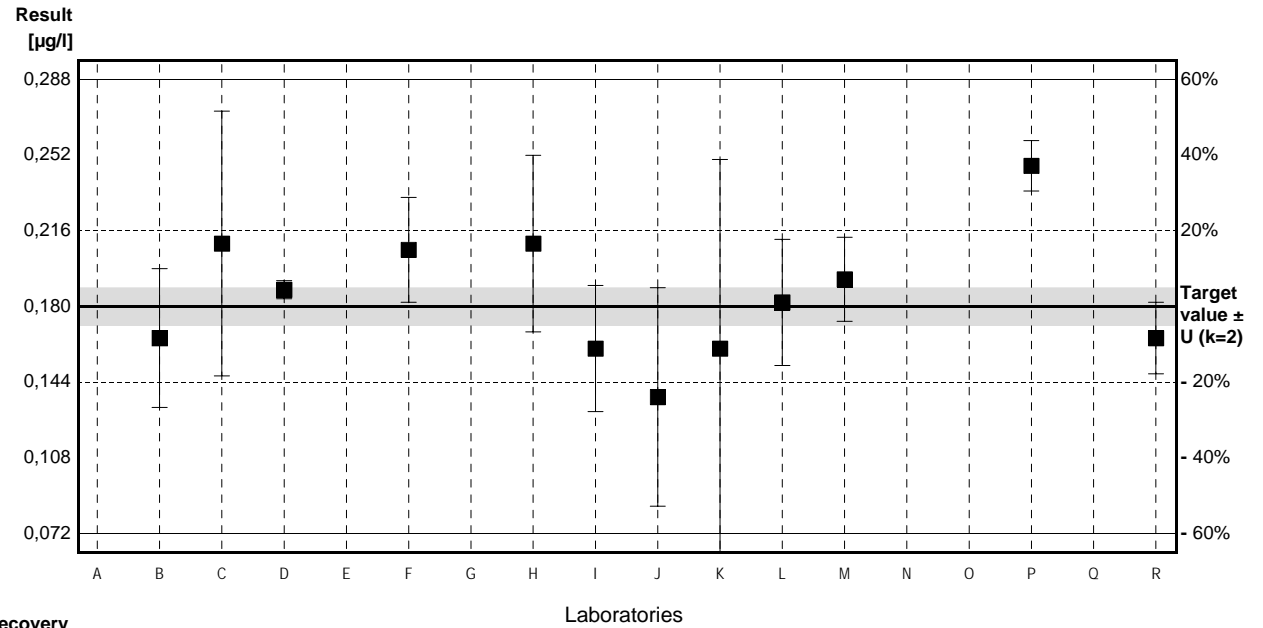
	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	0,067 $\pm$ 0,010	0,067 $\pm$ 0,010	$\mu\text{g/l}$
Recov. $\pm$ CI(99%)	109,6 $\pm$ 16,1	109,6 $\pm$ 16,1	%
SD between labs	0,012	0,012	$\mu\text{g/l}$
RSD between labs	17,4	17,4	%
n for calculation	13	13	

### Sample H84B

#### Parameter DIAtrazine

Target value  $\pm U$  (k=2) 0,180  $\mu\text{g/l}$   $\pm$  0,009  $\mu\text{g/l}$   
 IFA result  $\pm U$  (k=2) 0,183  $\mu\text{g/l}$   $\pm$  0,015  $\mu\text{g/l}$   
 Stability test  $\pm U$  (k=2) 0,177  $\mu\text{g/l}$   $\pm$  0,014  $\mu\text{g/l}$

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A			$\mu\text{g/l}$		
B	0,165	0,033	$\mu\text{g/l}$	92%	-0,52
C	0,210	0,063	$\mu\text{g/l}$	117%	1,04
D	0,188	0,0043	$\mu\text{g/l}$	104%	0,28
E			$\mu\text{g/l}$		
F	0,207	0,025	$\mu\text{g/l}$	115%	0,94
G	<0,02		$\mu\text{g/l}$	FN	
H	0,21	0,042	$\mu\text{g/l}$	117%	1,04
I	0,16	0,03	$\mu\text{g/l}$	89%	-0,69
J	0,137	0,052	$\mu\text{g/l}$	76%	-1,49
K	0,16	0,09	$\mu\text{g/l}$	89%	-0,69
L	0,182	0,030	$\mu\text{g/l}$	101%	0,07
M	0,193	0,020	$\mu\text{g/l}$	107%	0,45
N	<0,05		$\mu\text{g/l}$	FN	
O			$\mu\text{g/l}$		
P	0,247	0,012	$\mu\text{g/l}$	137%	2,33
Q			$\mu\text{g/l}$		
R	0,165	0,017	$\mu\text{g/l}$	92%	-0,52



	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	0,185 $\pm$ 0,027	0,185 $\pm$ 0,027	$\mu\text{g/l}$
Recov. $\pm$ CI(99%)	103,0 $\pm$ 15,0	103,0 $\pm$ 15,0	%
SD between labs	0,030	0,030	$\mu\text{g/l}$
RSD between labs	16,3	16,3	%
n for calculation	12	12	

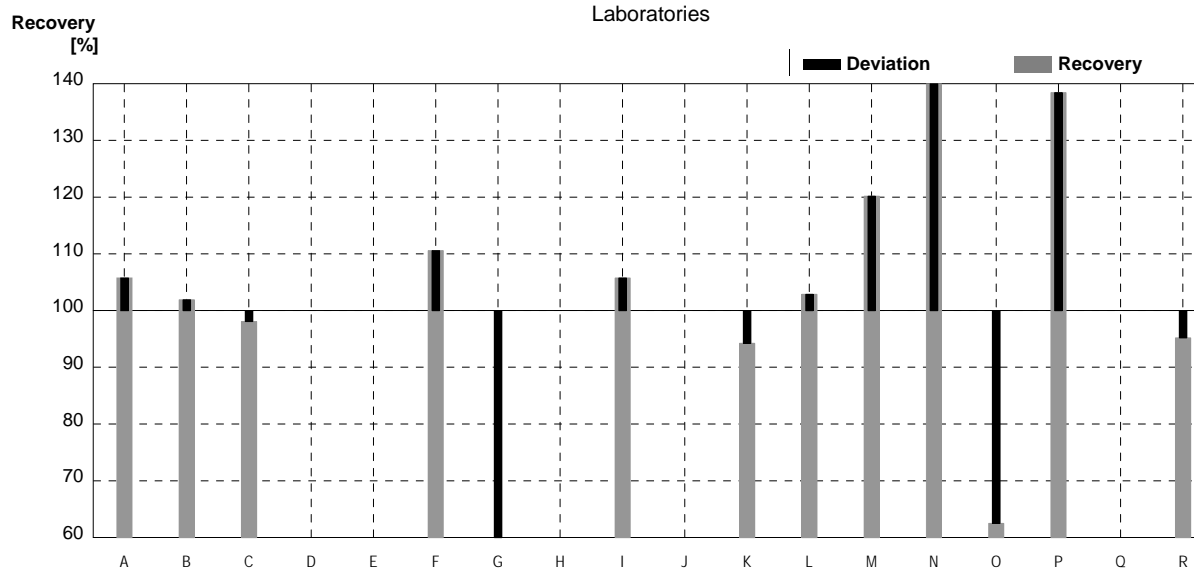
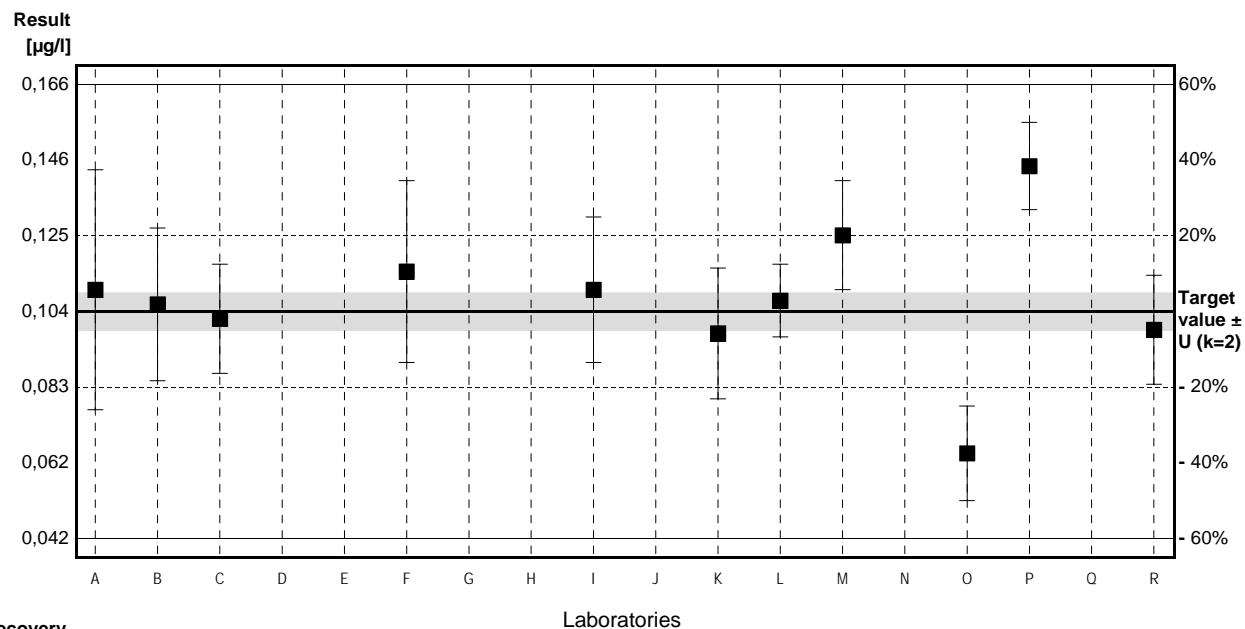
## Sample H84A

### Parameter Diuron

Target value  $\pm U$  (k=2) 0,104  $\mu\text{g/l}$   $\pm$  0,005  $\mu\text{g/l}$   
 IFA result  $\pm U$  (k=2) 0,102  $\mu\text{g/l}$   $\pm$  0,020  $\mu\text{g/l}$   
 Stability test  $\pm U$  (k=2) 0,101  $\mu\text{g/l}$   $\pm$  0,020  $\mu\text{g/l}$

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	0,110	0,033	$\mu\text{g/l}$	106%	0,44
B	0,106	0,021	$\mu\text{g/l}$	102%	0,15
C	0,102	0,015	$\mu\text{g/l}$	98%	-0,15
D			$\mu\text{g/l}$		
E			$\mu\text{g/l}$		
F	0,115	0,025	$\mu\text{g/l}$	111%	0,81
G	0,04 *	0,02	$\mu\text{g/l}$	38%	-4,73
H			$\mu\text{g/l}$		
I	0,11	0,02	$\mu\text{g/l}$	106%	0,44
J	n.a.		$\mu\text{g/l}$		
K	0,098	0,018	$\mu\text{g/l}$	94%	-0,44
L	0,107	0,010	$\mu\text{g/l}$	103%	0,22
M	0,125	0,015	$\mu\text{g/l}$	120%	1,55
N	0,474 *	0,06	$\mu\text{g/l}$	456%	27,37
O	0,065 *	0,013	$\mu\text{g/l}$	63%	-2,88
P	0,144	0,012	$\mu\text{g/l}$	138%	2,96
Q			$\mu\text{g/l}$		
R	0,099	0,015	$\mu\text{g/l}$	95%	-0,37

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	0,130 $\pm$ 0,090	0,112 $\pm$ 0,014	$\mu\text{g/l}$
Recov. $\pm$ CI(99%)	125,4 $\pm$ 86,5	107,3 $\pm$ 13,8	%
SD between labs	0,106	0,014	$\mu\text{g/l}$
RSD between labs	81,6	12,4	%
n for calculation	13	10	





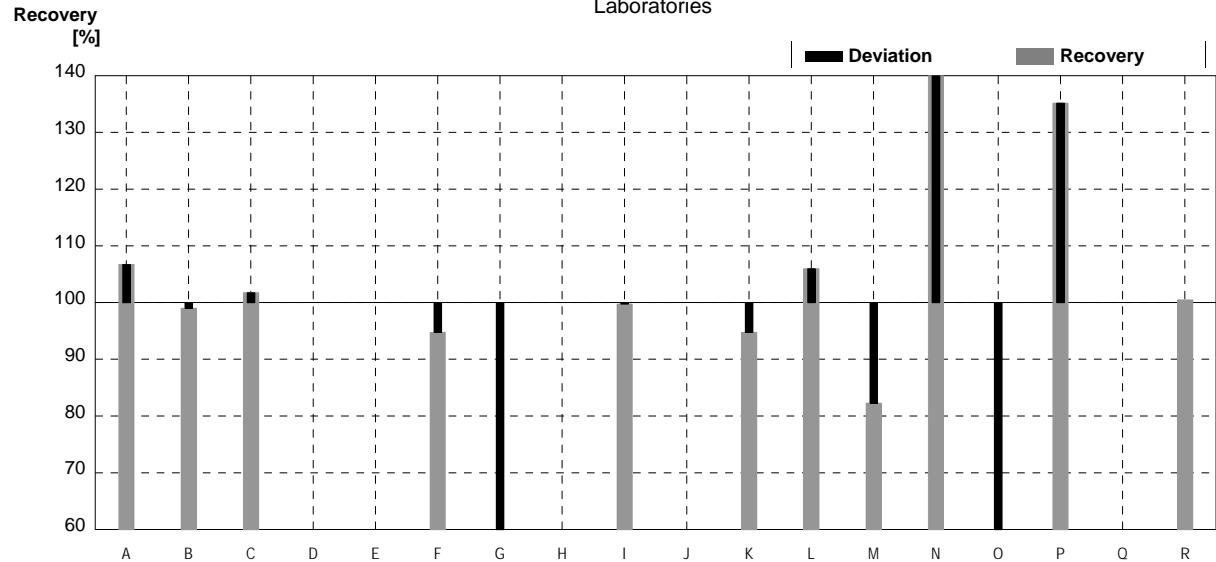
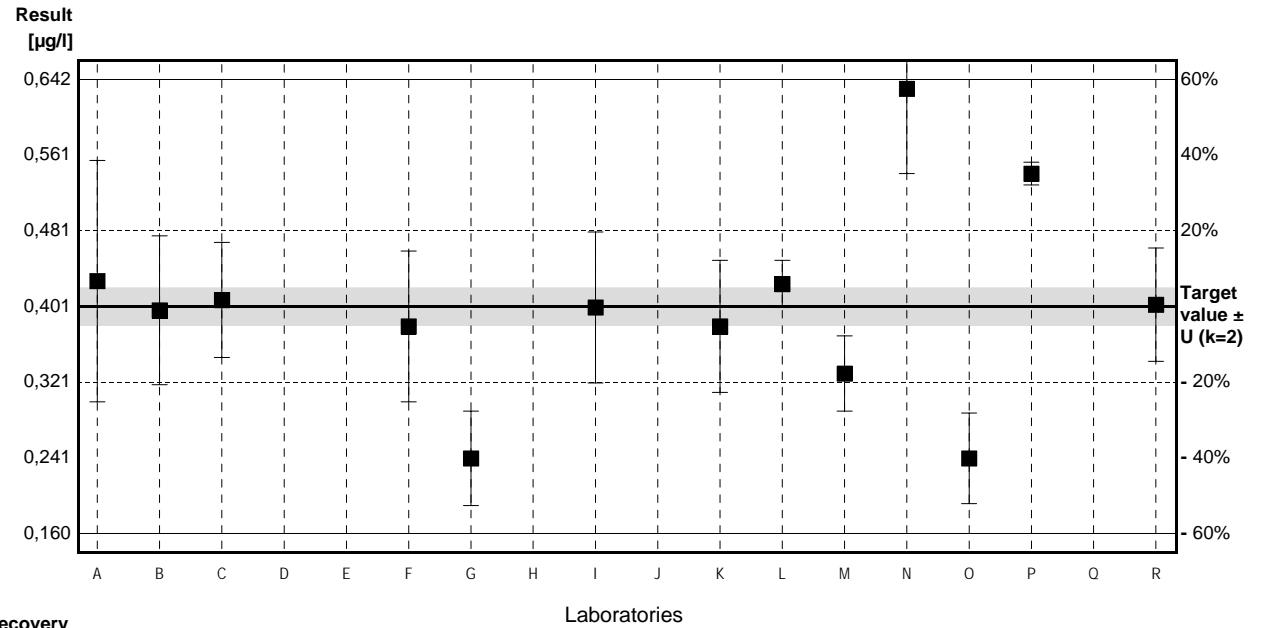
### Sample H84B

#### Parameter Diuron

Target value  $\pm U$  (k=2) 0,401  $\mu\text{g/l}$   $\pm$  0,020  $\mu\text{g/l}$   
 IFA result  $\pm U$  (k=2) 0,393  $\mu\text{g/l}$   $\pm$  0,079  $\mu\text{g/l}$   
 Stability test  $\pm U$  (k=2) 0,385  $\mu\text{g/l}$   $\pm$  0,077  $\mu\text{g/l}$

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	0,428	0,128	$\mu\text{g/l}$	107%	0,52
B	0,397	0,079	$\mu\text{g/l}$	99%	-0,08
C	0,408	0,061	$\mu\text{g/l}$	102%	0,13
D			$\mu\text{g/l}$		
E			$\mu\text{g/l}$		
F	0,380	0,080	$\mu\text{g/l}$	95%	-0,40
G	0,24 *	0,05	$\mu\text{g/l}$	60%	-3,09
H			$\mu\text{g/l}$		
I	0,40	0,08	$\mu\text{g/l}$	100%	-0,02
J	n.a.		$\mu\text{g/l}$		
K	0,38	0,07	$\mu\text{g/l}$	95%	-0,40
L	0,425	0,025	$\mu\text{g/l}$	106%	0,46
M	0,330	0,040	$\mu\text{g/l}$	82%	-1,36
N	0,632 *	0,09	$\mu\text{g/l}$	158%	4,43
O	0,240 *	0,048	$\mu\text{g/l}$	60%	-3,09
P	0,542 *	0,012	$\mu\text{g/l}$	135%	2,70
Q			$\mu\text{g/l}$		
R	0,403	0,060	$\mu\text{g/l}$	100%	0,04

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	0,400 $\pm$ 0,089	0,395 $\pm$ 0,033	$\mu\text{g/l}$
Recov. $\pm$ CI(99%)	99,8 $\pm$ 22,2	98,4 $\pm$ 8,2	%
SD between labs	0,105	0,029	$\mu\text{g/l}$
RSD between labs	26,2	7,5	%
n for calculation	13	9	

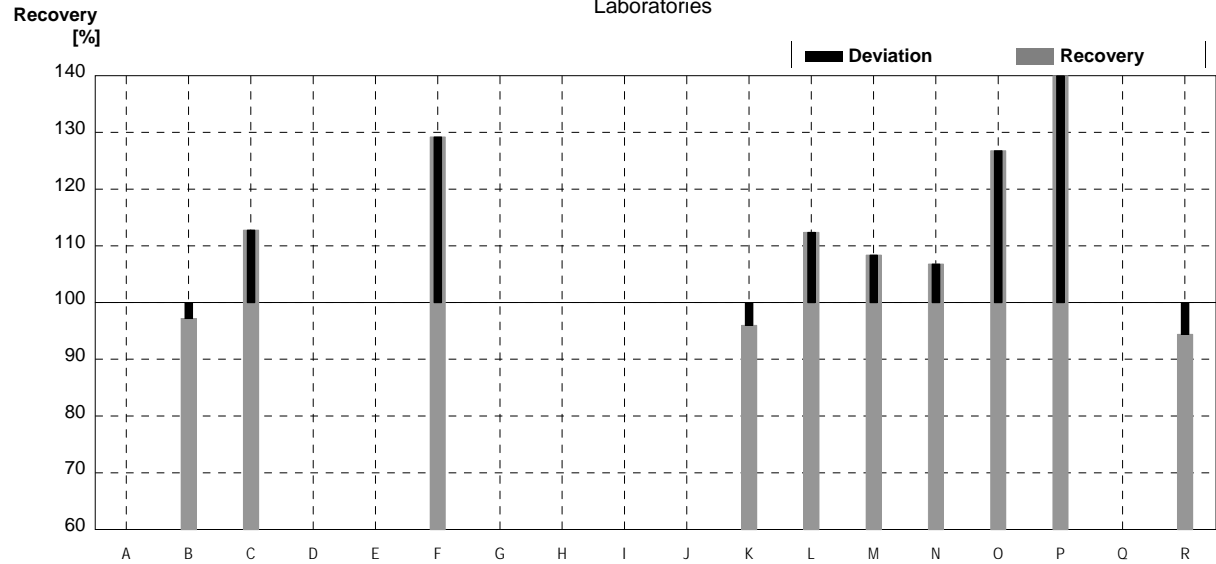
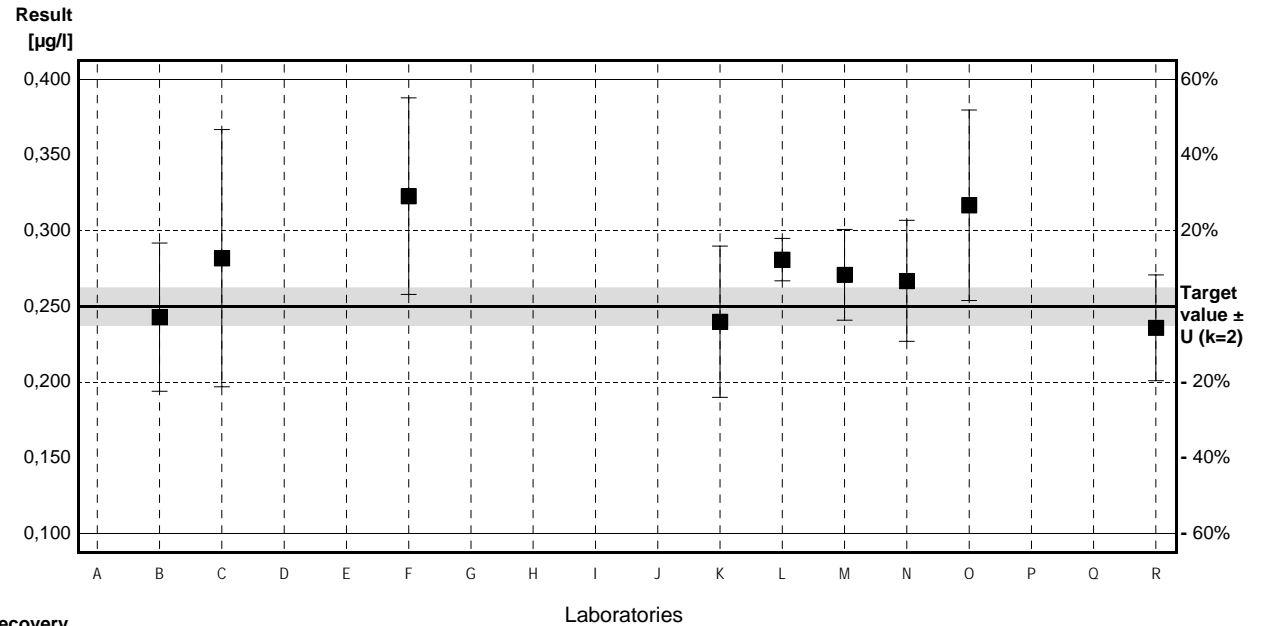


# Sample H84A

## Parameter Hexazinone

Target value ± U (k=2) 0,250 µg/l ± 0,013 µg/l  
 IFA result ± U (k=2) 0,248 µg/l ± 0,035 µg/l  
 Stability test ± U (k=2) 0,246 µg/l ± 0,034 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	0,243	0,049	µg/l	97%	-0,16
C	0,282	0,085	µg/l	113%	0,75
D			µg/l		
E			µg/l		
F	0,323	0,065	µg/l	129%	1,72
G			µg/l		
H			µg/l		
I			µg/l		
J	n.a.		µg/l		
K	0,24	0,05	µg/l	96%	-0,24
L	0,281	0,014	µg/l	112%	0,73
M	0,271	0,030	µg/l	108%	0,49
N	0,267	0,04	µg/l	107%	0,40
O	0,317	0,063	µg/l	127%	1,58
P	0,410	0,012	µg/l	164%	3,76
Q			µg/l		
R	0,236	0,035	µg/l	94%	-0,33



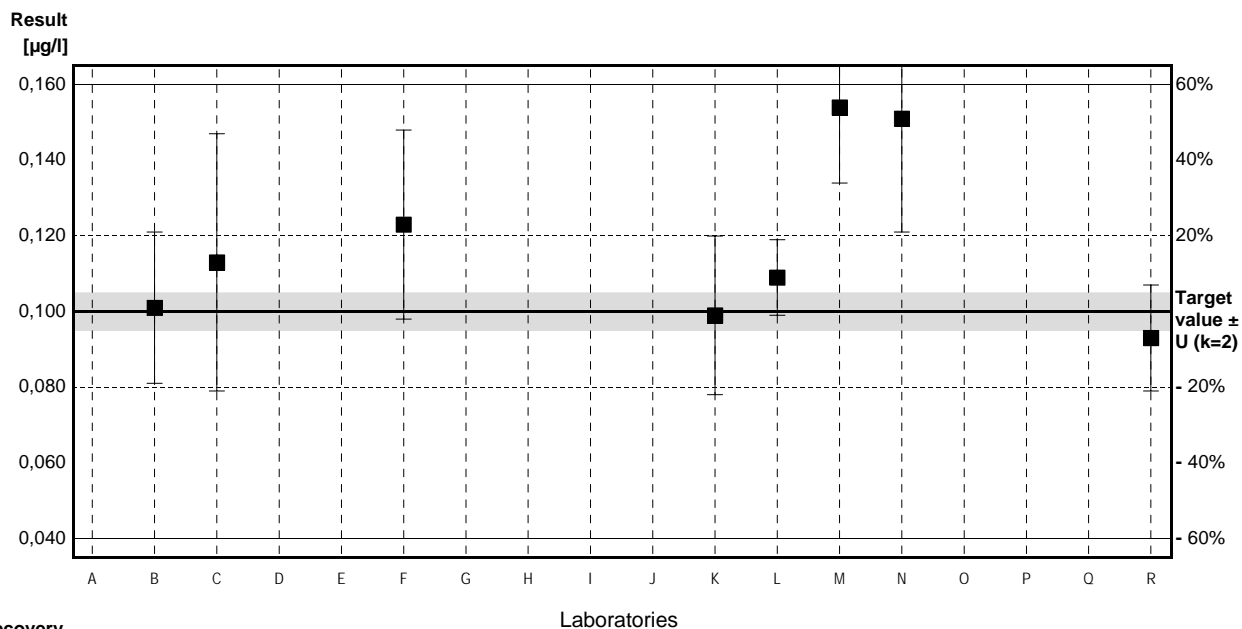
	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,287 ± 0,054	0,287 ± 0,054	µg/l
Recov. ± CI(99%)	114,8 ± 21,8	114,8 ± 21,8	%
SD between labs	0,052	0,052	µg/l
RSD between labs	18,3	18,3	%
n for calculation	10	10	

# Sample H84B

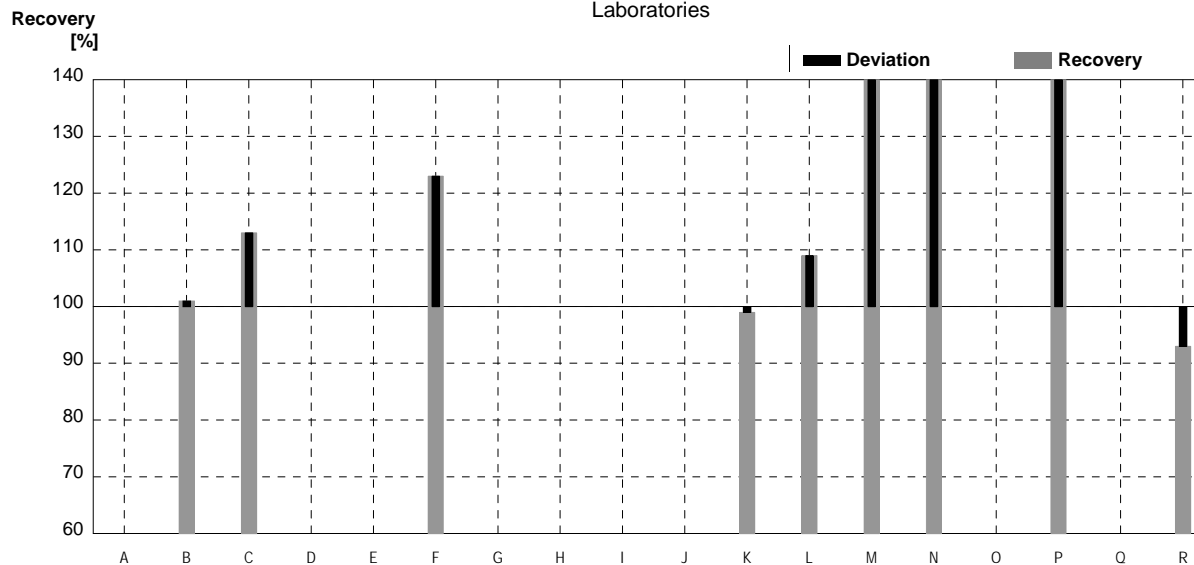
## Parameter Hexazinone

Target value ± U (k=2) 0,100 µg/l ± 0,005 µg/l  
 IFA result ± U (k=2) 0,110 µg/l ± 0,015 µg/l  
 Stability test ± U (k=2) 0,103 µg/l ± 0,014 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	0,101	0,020	µg/l	101%	0,06
C	0,113	0,034	µg/l	113%	0,76
D			µg/l		
E			µg/l		
F	0,123	0,025	µg/l	123%	1,35
G			µg/l		
H			µg/l		
I			µg/l		
J	n.a.		µg/l		
K	0,099	0,021	µg/l	99%	-0,06
L	0,109	0,010	µg/l	109%	0,53
M	0,154	0,020	µg/l	154%	3,18
N	0,151	0,03	µg/l	151%	3,00
O			µg/l		
P	0,166	0,012	µg/l	166%	3,88
Q			µg/l		
R	0,093	0,014	µg/l	93%	-0,41



	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,123 ± 0,030	0,123 ± 0,030	µg/l
Recov. ± CI(99%)	123,2 ± 30,3	123,2 ± 30,3	%
SD between labs	0,027	0,027	µg/l
RSD between labs	21,9	21,9	%
n for calculation	9	9	

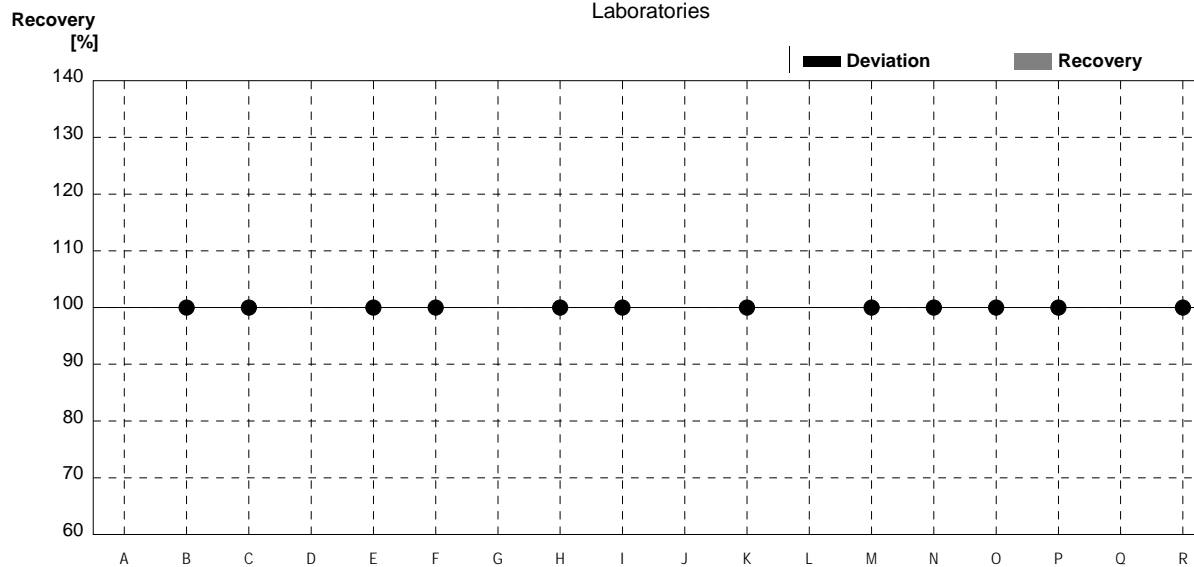
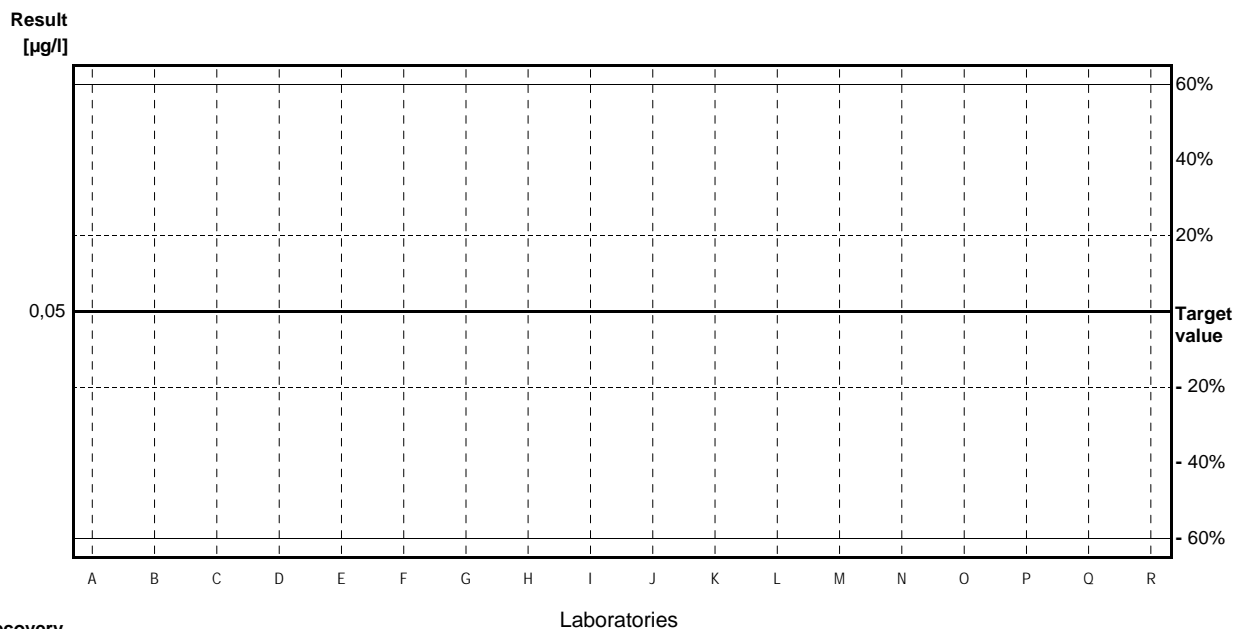


# Sample H84A

## Parameter Metazachlor

Target value <0,05 µg/l  
 IFA result <0,01 µg/l  
 Stability test <0,01 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	<0,02		µg/l	•	
C	<0,015		µg/l	•	
D			µg/l		
E	<0,01		µg/l	•	
F	<0,005	0,002	µg/l	•	
G			µg/l		
H	<0,05		µg/l	•	
I	<0,02		µg/l	•	
J	n.a.		µg/l		
K	<0,002		µg/l	•	
L			µg/l		
M	<0,050		µg/l	•	
N	<0,05		µg/l	•	
O	<0,010		µg/l	•	
P	<0,019	0,012	µg/l	•	
Q			µg/l		
R	<0,030		µg/l	•	



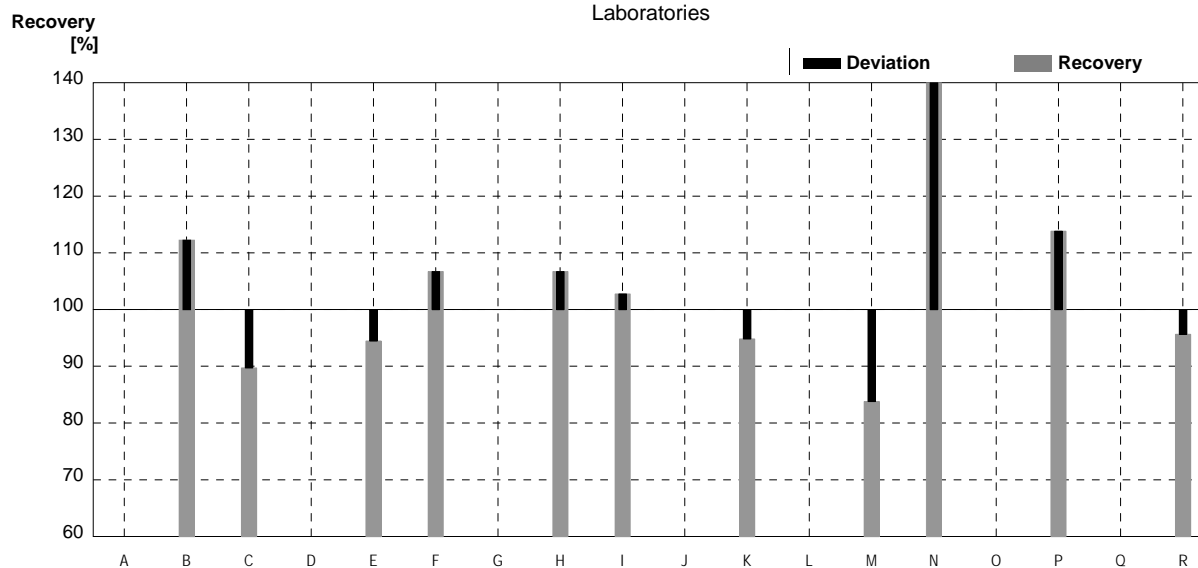
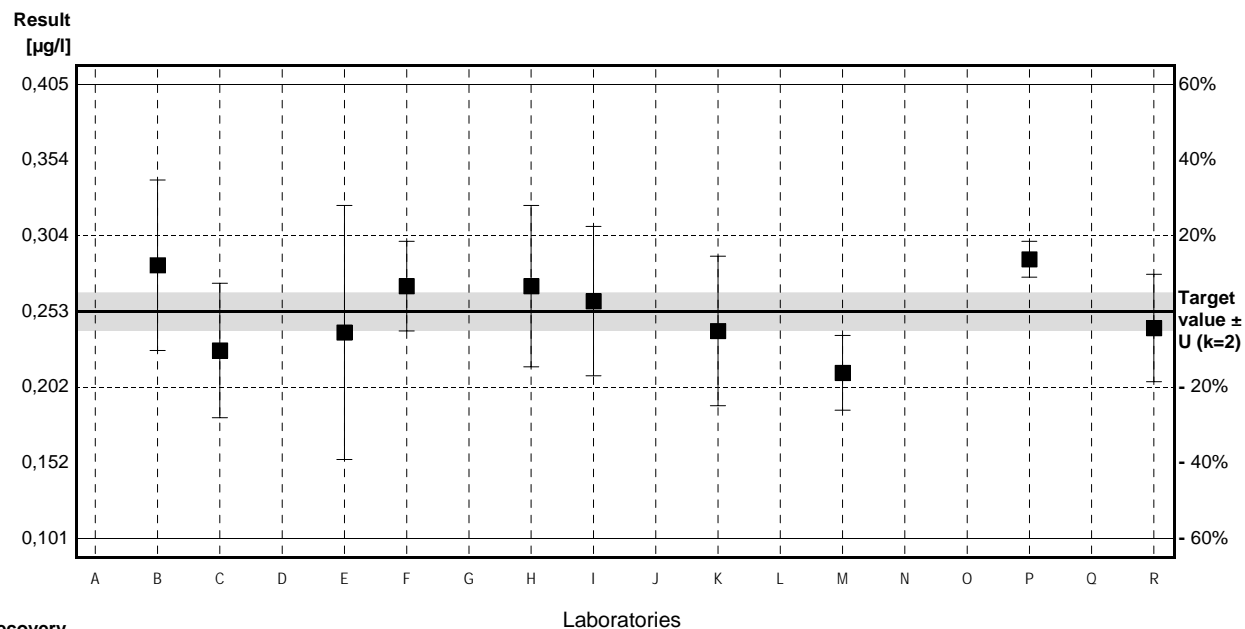
	All results	Outliers excl.	Unit
Mean ± CI(99%)			µg/l
Recov. ± CI(99%)			%
SD between labs			µg/l
RSD between labs			%
n for calculation			

## Sample H84B

### Parameter Metazachlor

Target value  $\pm U$  (k=2) 0,253  $\mu\text{g/l}$   $\pm$  0,013  $\mu\text{g/l}$   
 IFA result  $\pm U$  (k=2) 0,270  $\mu\text{g/l}$   $\pm$  0,043  $\mu\text{g/l}$   
 Stability test  $\pm U$  (k=2) 0,229  $\mu\text{g/l}$   $\pm$  0,037  $\mu\text{g/l}$

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A			$\mu\text{g/l}$		
B	0,284	0,057	$\mu\text{g/l}$	112%	0,82
C	0,227	0,045	$\mu\text{g/l}$	90%	-0,69
D			$\mu\text{g/l}$		
E	0,239	0,085	$\mu\text{g/l}$	94%	-0,37
F	0,270	0,030	$\mu\text{g/l}$	107%	0,45
G			$\mu\text{g/l}$		
H	0,27	0,054	$\mu\text{g/l}$	107%	0,45
I	0,26	0,05	$\mu\text{g/l}$	103%	0,18
J	n.a.		$\mu\text{g/l}$		
K	0,24	0,05	$\mu\text{g/l}$	95%	-0,34
L			$\mu\text{g/l}$		
M	0,212	0,025	$\mu\text{g/l}$	84%	-1,08
N	0,449 *	0,07	$\mu\text{g/l}$	177%	5,16
O			$\mu\text{g/l}$		
P	0,288	0,012	$\mu\text{g/l}$	114%	0,92
Q			$\mu\text{g/l}$		
R	0,242	0,036	$\mu\text{g/l}$	96%	-0,29



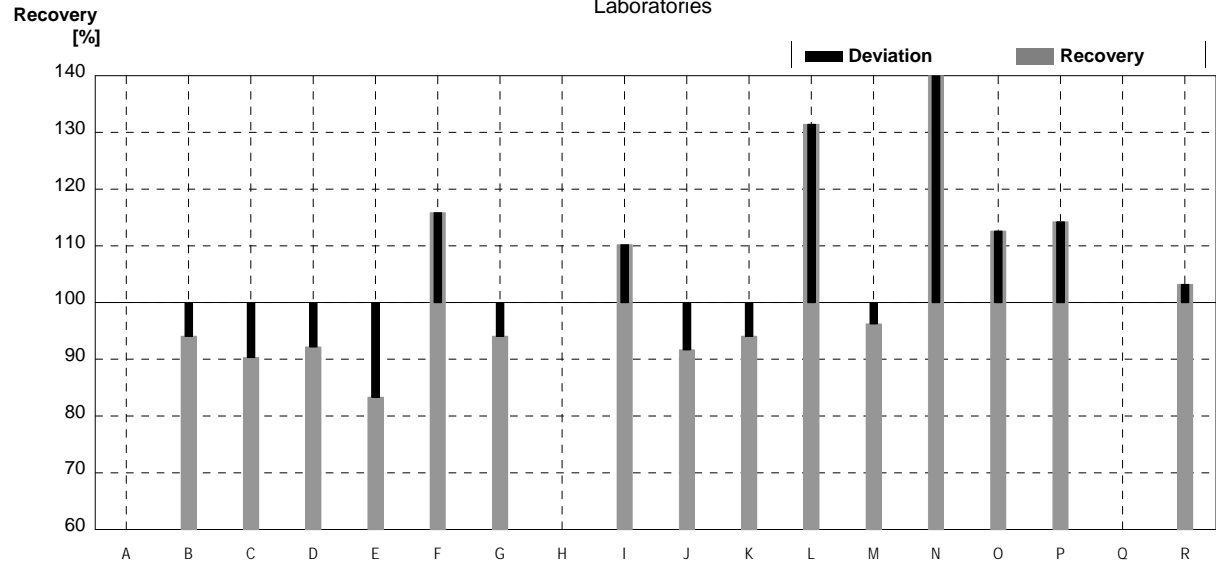
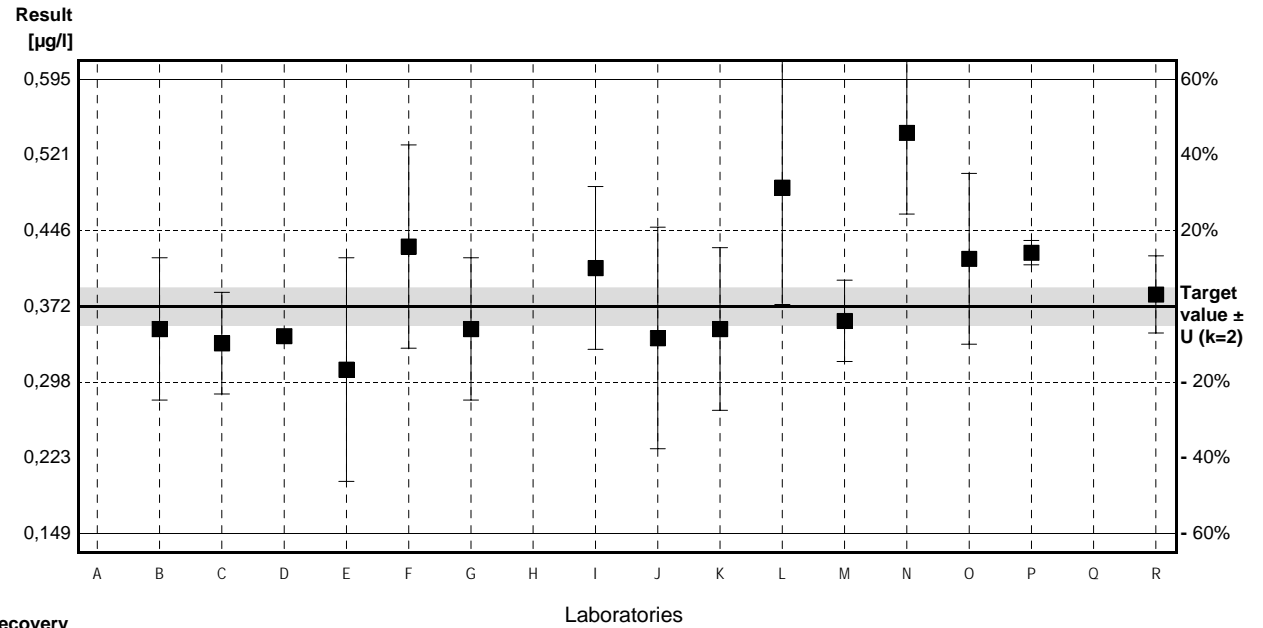
	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	0,271 $\pm$ 0,061	0,253 $\pm$ 0,026	$\mu\text{g/l}$
Recov. $\pm$ CI(99%)	107,1 $\pm$ 24,0	100,1 $\pm$ 10,3	%
SD between labs	0,064	0,025	$\mu\text{g/l}$
RSD between labs	23,5	9,9	%
n for calculation	11	10	

### Sample H84A

#### Parameter Metolachlor

Target value ± U (k=2) 0,372 µg/l ± 0,019 µg/l  
 IFA result ± U (k=2) 0,361 µg/l ± 0,061 µg/l  
 Stability test ± U (k=2) 0,376 µg/l ± 0,064 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	0,350	0,070	µg/l	94%	-0,39
C	0,336	0,050	µg/l	90%	-0,65
D	0,343	0,0064	µg/l	92%	-0,52
E	0,31	0,11	µg/l	83%	-1,11
F	0,431	0,100	µg/l	116%	1,06
G	0,35	0,07	µg/l	94%	-0,39
H			µg/l		
I	0,41	0,08	µg/l	110%	0,68
J	0,341	0,109	µg/l	92%	-0,56
K	0,35	0,08	µg/l	94%	-0,39
L	0,489 *	0,115	µg/l	131%	2,10
M	0,358	0,040	µg/l	96%	-0,25
N	0,543 *	0,08	µg/l	146%	3,06
O	0,419	0,084	µg/l	113%	0,84
P	0,425	0,012	µg/l	114%	0,95
Q			µg/l		
R	0,384	0,038	µg/l	103%	0,22



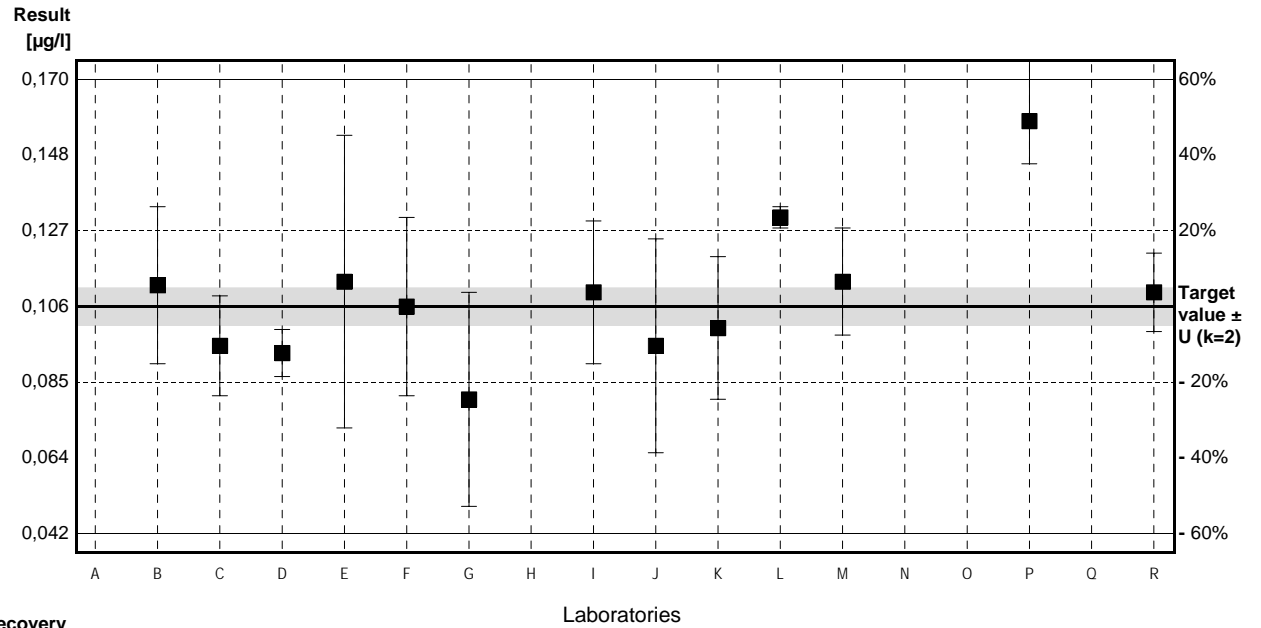
	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,389 ± 0,049	0,370 ± 0,033	µg/l
Recov. ± CI(99%)	104,6 ± 13,2	99,4 ± 9,0	%
SD between labs	0,064	0,039	µg/l
RSD between labs	16,4	10,7	%
n for calculation	15	13	

### Sample H84B

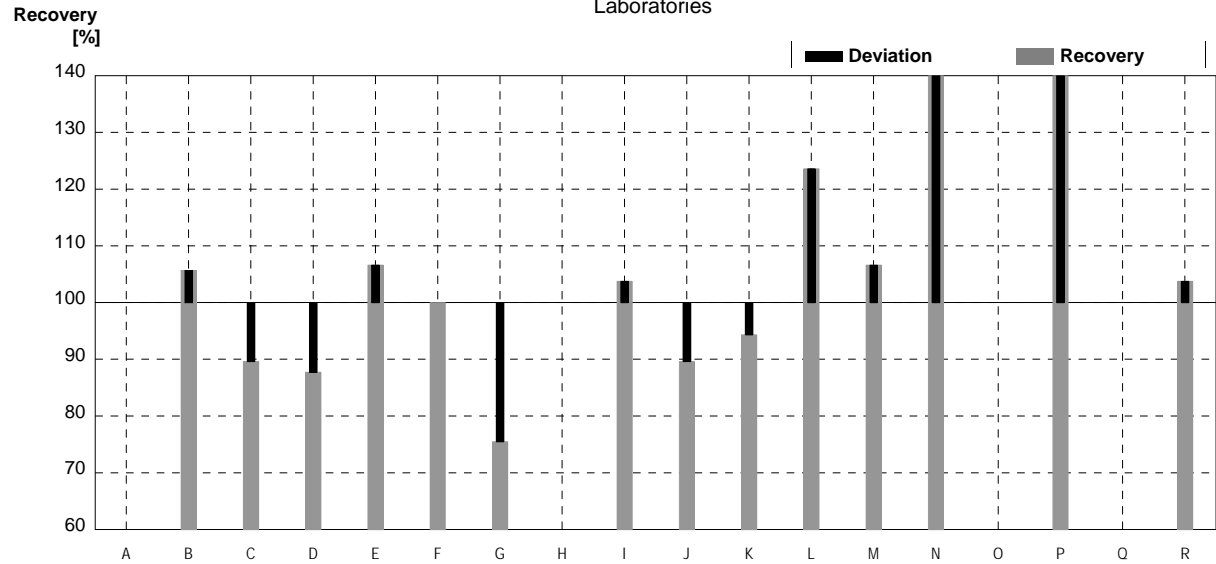
#### Parameter Metolachlor

Target value ± U (k=2) 0,106 µg/l ± 0,005 µg/l  
 IFA result ± U (k=2) 0,129 µg/l ± 0,022 µg/l  
 Stability test ± U (k=2) 0,108 µg/l ± 0,018 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	0,112	0,022	µg/l	106%	0,38
C	0,095	0,014	µg/l	90%	-0,69
D	0,093	0,0066	µg/l	88%	-0,82
E	0,113	0,041	µg/l	107%	0,44
F	0,106	0,025	µg/l	100%	0,00
G	0,08	0,03	µg/l	75%	-1,64
H			µg/l		
I	0,11	0,02	µg/l	104%	0,25
J	0,095	0,030	µg/l	90%	-0,69
K	0,10	0,02	µg/l	94%	-0,38
L	0,131	0,003	µg/l	124%	1,57
M	0,113	0,015	µg/l	107%	0,44
N	0,271 *	0,05	µg/l	256%	10,38
O			µg/l		
P	0,158	0,012	µg/l	149%	3,27
Q			µg/l		
R	0,110	0,011	µg/l	104%	0,25



	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,121 ± 0,038	0,109 ± 0,016	µg/l
Recov. ± CI(99%)	113,7 ± 35,8	102,8 ± 15,5	%
SD between labs	0,047	0,019	µg/l
RSD between labs	39,1	17,8	%
n for calculation	14	13	

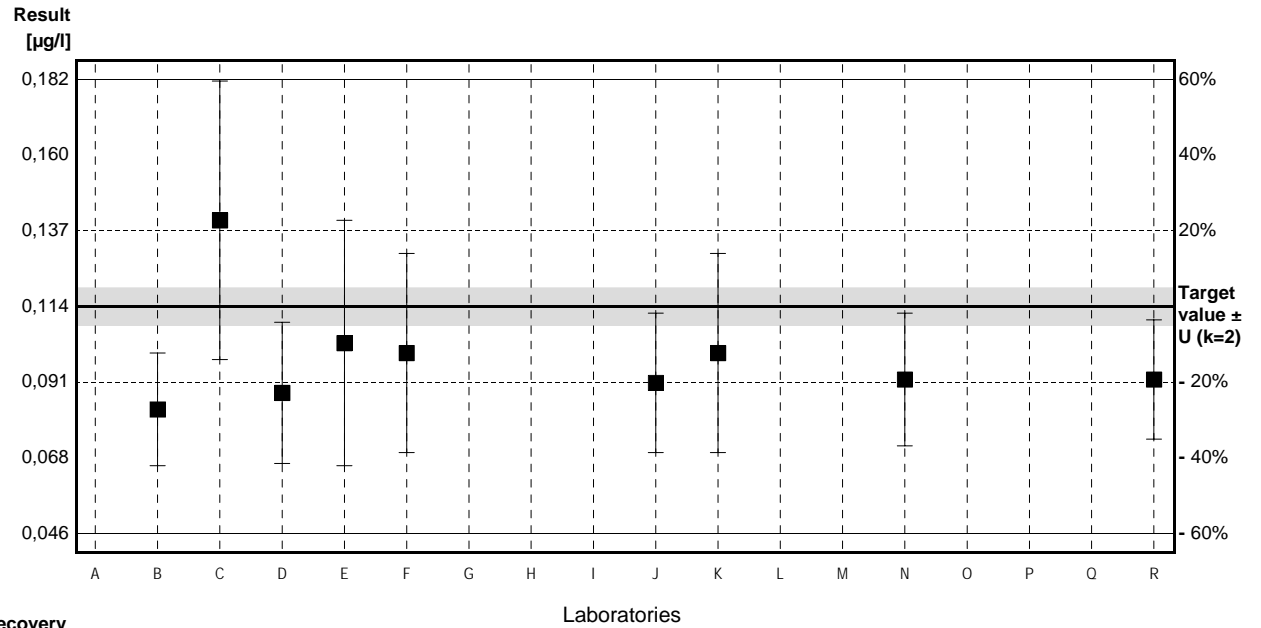


### Sample H84A

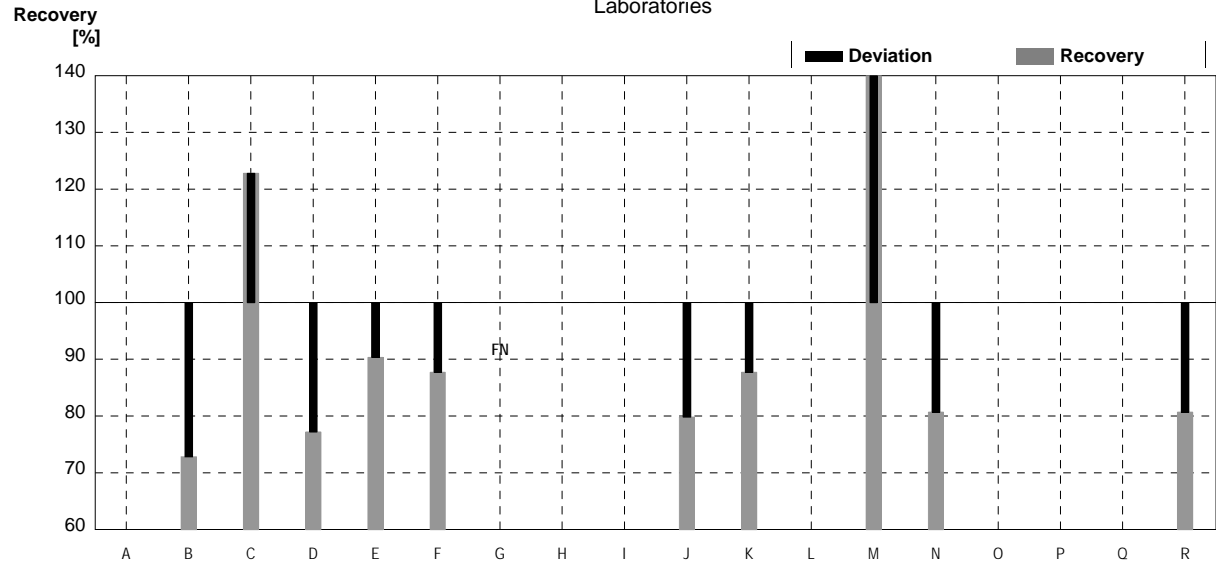
#### Parameter Pendimethalin

Target value  $\pm U$  (k=2) 0,114  $\mu\text{g/l}$   $\pm$  0,006  $\mu\text{g/l}$   
 IFA result  $\pm U$  (k=2) 0,185  $\mu\text{g/l}$   $\pm$  0,037  $\mu\text{g/l}$   
 Stability test  $\pm U$  (k=2) 0,212  $\mu\text{g/l}$   $\pm$  0,042  $\mu\text{g/l}$

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A			$\mu\text{g/l}$		
B	0,083	0,017	$\mu\text{g/l}$	73%	-1,13
C	0,140 *	0,042	$\mu\text{g/l}$	123%	0,95
D	0,088	0,0213	$\mu\text{g/l}$	77%	-0,95
E	0,103	0,037	$\mu\text{g/l}$	90%	-0,40
F	0,10	0,03	$\mu\text{g/l}$	88%	-0,51
G	<0,02		$\mu\text{g/l}$	FN	
H			$\mu\text{g/l}$		
I			$\mu\text{g/l}$		
J	0,091	0,021	$\mu\text{g/l}$	80%	-0,84
K	0,10	0,03	$\mu\text{g/l}$	88%	-0,51
L			$\mu\text{g/l}$		
M	0,208 *	0,030	$\mu\text{g/l}$	182%	3,44
N	0,092	0,020	$\mu\text{g/l}$	81%	-0,80
O			$\mu\text{g/l}$		
P			$\mu\text{g/l}$		
Q			$\mu\text{g/l}$		
R	0,092	0,018	$\mu\text{g/l}$	81%	-0,80



	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	0,110 $\pm$ 0,039	0,094 $\pm$ 0,008	$\mu\text{g/l}$
Recov. $\pm$ CI(99%)	96,2 $\pm$ 34,5	82,1 $\pm$ 7,4	%
SD between labs	0,038	0,007	$\mu\text{g/l}$
RSD between labs	34,6	7,3	%
n for calculation	10	8	



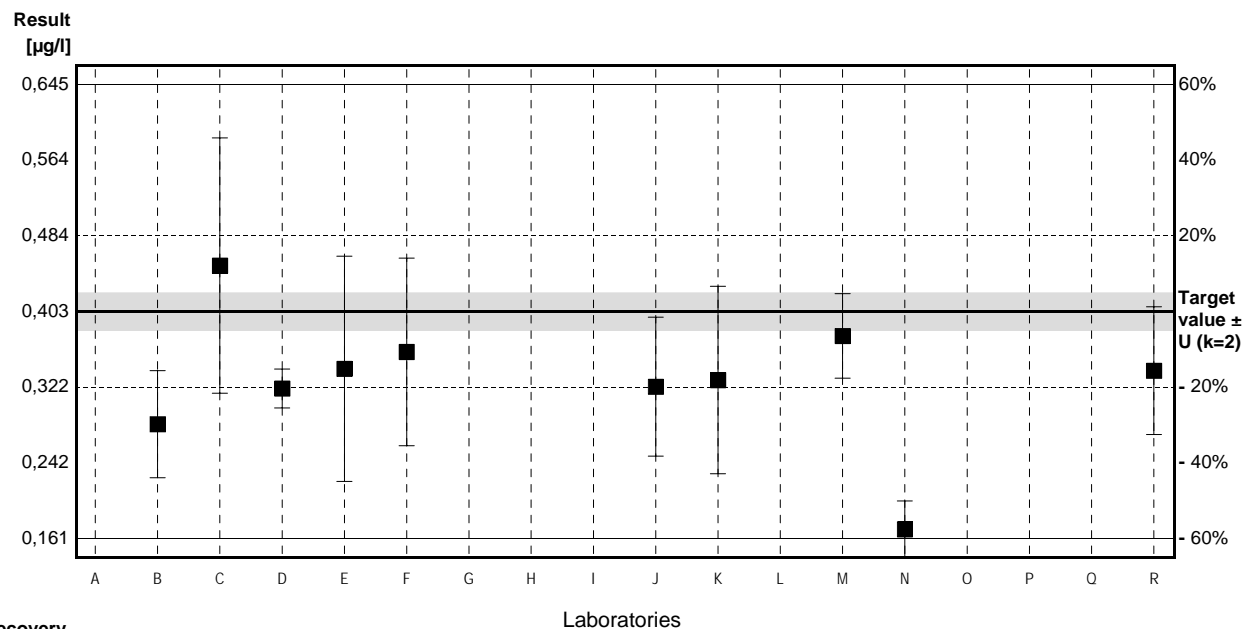


## Sample H84B

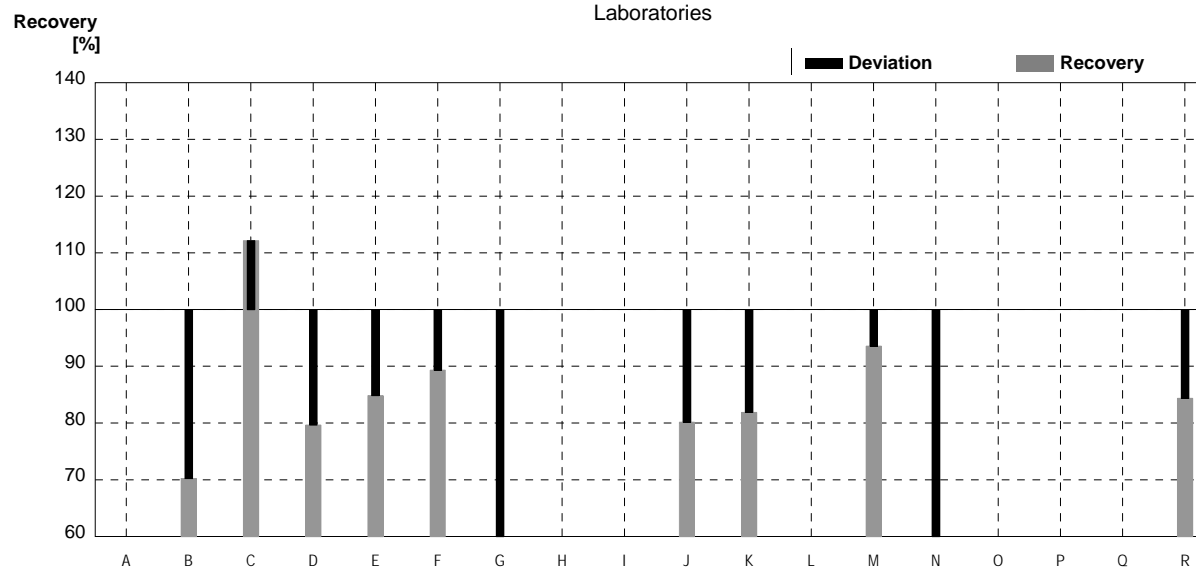
### Parameter Pendimethalin

Target value  $\pm U$  (k=2) 0,403  $\mu\text{g/l}$   $\pm$  0,020  $\mu\text{g/l}$   
 IFA result  $\pm U$  (k=2) 0,458  $\mu\text{g/l}$   $\pm$  0,092  $\mu\text{g/l}$   
 Stability test  $\pm U$  (k=2) 0,541  $\mu\text{g/l}$   $\pm$  0,108  $\mu\text{g/l}$

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A			$\mu\text{g/l}$		
B	0,283	0,057	$\mu\text{g/l}$	70%	-1,24
C	0,452	0,136	$\mu\text{g/l}$	112%	0,51
D	0,321	0,0207	$\mu\text{g/l}$	80%	-0,85
E	0,342	0,12	$\mu\text{g/l}$	85%	-0,63
F	0,36	0,10	$\mu\text{g/l}$	89%	-0,44
G	0,07 *	0,03	$\mu\text{g/l}$	17%	-3,44
H			$\mu\text{g/l}$		
I			$\mu\text{g/l}$		
J	0,323	0,074	$\mu\text{g/l}$	80%	-0,83
K	0,33	0,10	$\mu\text{g/l}$	82%	-0,75
L			$\mu\text{g/l}$		
M	0,377	0,045	$\mu\text{g/l}$	94%	-0,27
N	0,171 *	0,030	$\mu\text{g/l}$	42%	-2,40
O			$\mu\text{g/l}$		
P			$\mu\text{g/l}$		
Q			$\mu\text{g/l}$		
R	0,340	0,068	$\mu\text{g/l}$	84%	-0,65



	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	0,306 $\pm$ 0,099	0,348 $\pm$ 0,053	$\mu\text{g/l}$
Recov. $\pm$ CI(99%)	76,0 $\pm$ 24,6	86,2 $\pm$ 13,1	%
SD between labs	0,104	0,047	$\mu\text{g/l}$
RSD between labs	33,8	13,6	%
n for calculation	11	9	

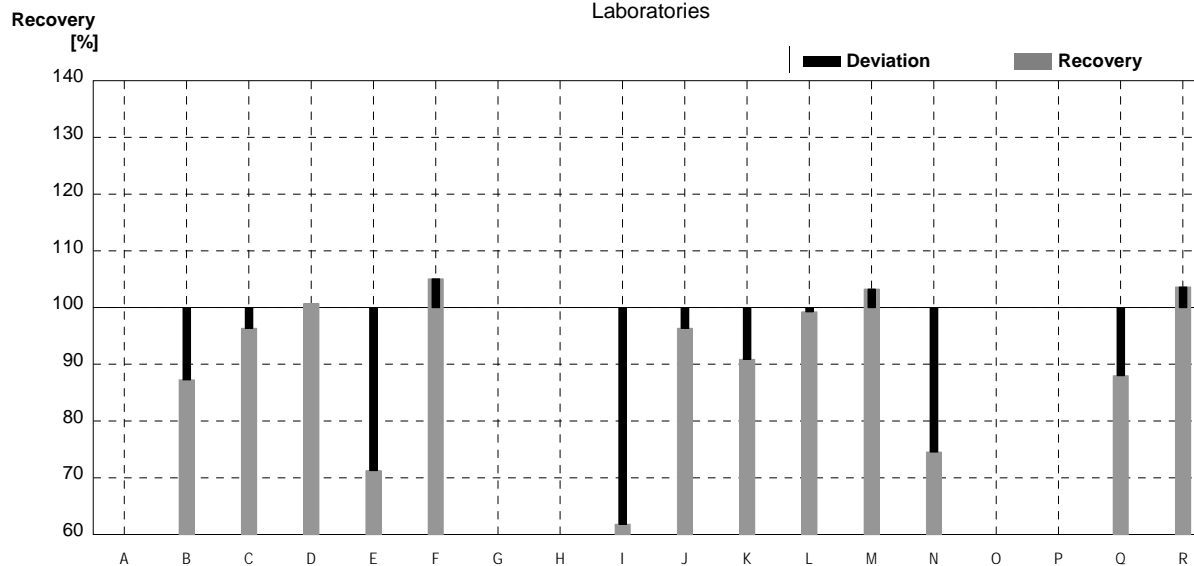
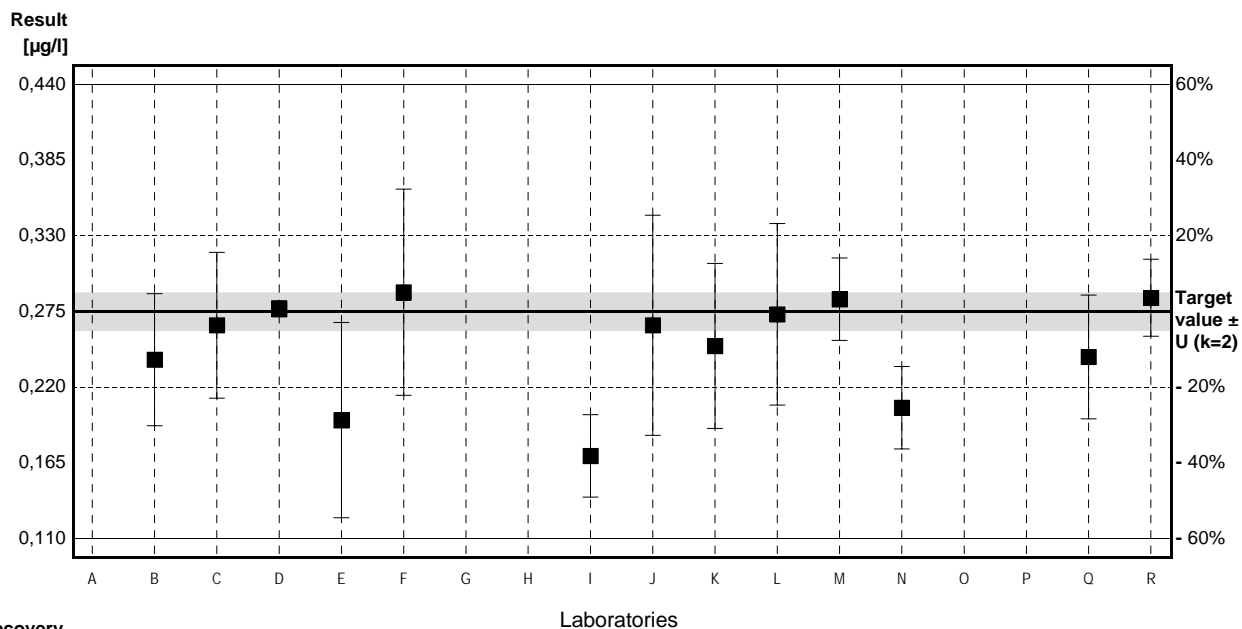


### Sample H84A

#### Parameter Prometryn

Target value  $\pm U$  (k=2) 0,275  $\mu\text{g/l}$   $\pm$  0,014  $\mu\text{g/l}$   
 IFA result  $\pm U$  (k=2) 0,278  $\mu\text{g/l}$   $\pm$  0,033  $\mu\text{g/l}$   
 Stability test  $\pm U$  (k=2) 0,328  $\mu\text{g/l}$   $\pm$  0,039  $\mu\text{g/l}$

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A			$\mu\text{g/l}$		
B	0,240	0,048	$\mu\text{g/l}$	87%	-0,91
C	0,265	0,053	$\mu\text{g/l}$	96%	-0,26
D	0,277	0,0059	$\mu\text{g/l}$	101%	0,05
E	0,196	0,071	$\mu\text{g/l}$	71%	-2,05
F	0,289	0,075	$\mu\text{g/l}$	105%	0,36
G			$\mu\text{g/l}$		
H			$\mu\text{g/l}$		
I	0,17	0,03	$\mu\text{g/l}$	62%	-2,73
J	0,265	0,080	$\mu\text{g/l}$	96%	-0,26
K	0,25	0,06	$\mu\text{g/l}$	91%	-0,65
L	0,273	0,066	$\mu\text{g/l}$	99%	-0,05
M	0,284	0,030	$\mu\text{g/l}$	103%	0,23
N	0,205	0,03	$\mu\text{g/l}$	75%	-1,82
O			$\mu\text{g/l}$		
P			$\mu\text{g/l}$		
Q	0,242	0,045	$\mu\text{g/l}$	88%	-0,86
R	0,285	0,028	$\mu\text{g/l}$	104%	0,26



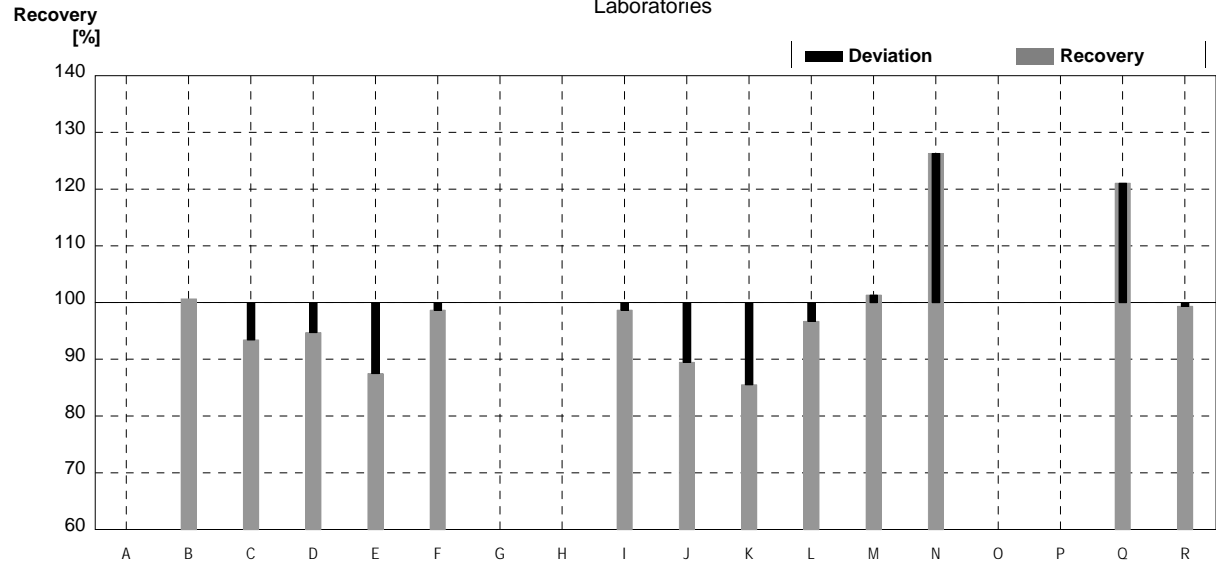
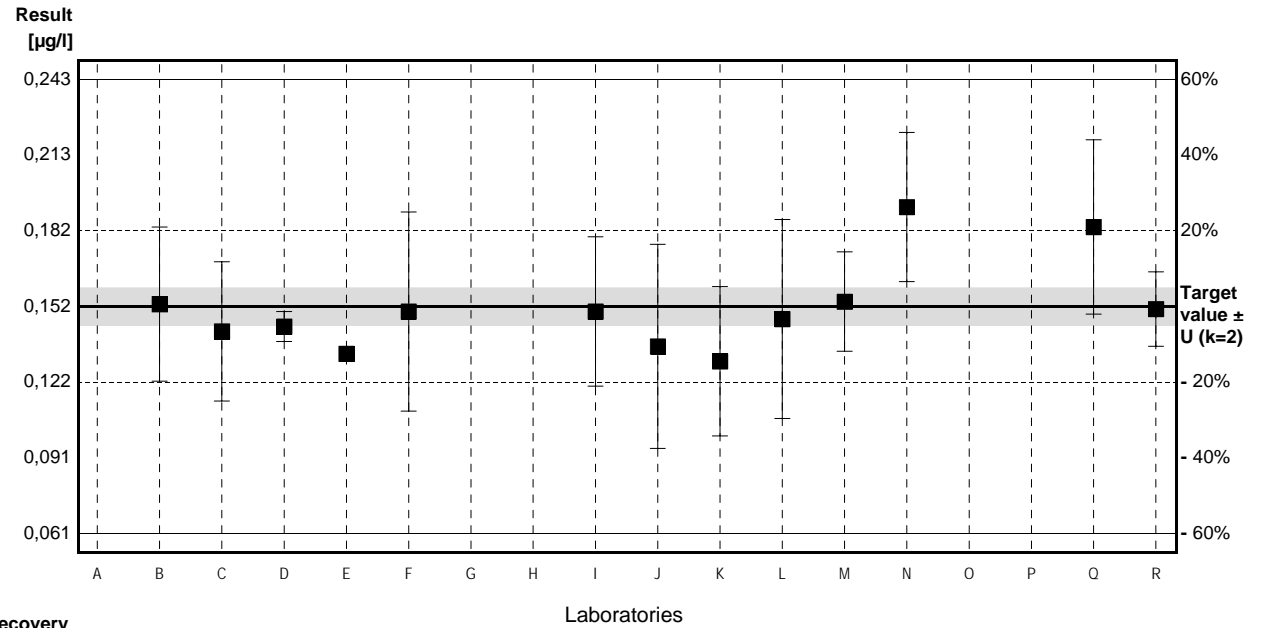
	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	0,249 $\pm$ 0,032	0,249 $\pm$ 0,032	$\mu\text{g/l}$
Recov. $\pm$ CI(99%)	90,7 $\pm$ 11,6	90,7 $\pm$ 11,6	%
SD between labs	0,038	0,038	$\mu\text{g/l}$
RSD between labs	15,1	15,1	%
n for calculation	13	13	

### Sample H84B

#### Parameter Prometryn

Target value  $\pm U$  (k=2) 0,152  $\mu\text{g/l}$   $\pm$  0,008  $\mu\text{g/l}$   
 IFA result  $\pm U$  (k=2) 0,158  $\mu\text{g/l}$   $\pm$  0,019  $\mu\text{g/l}$   
 Stability test  $\pm U$  (k=2) 0,175  $\mu\text{g/l}$   $\pm$  0,021  $\mu\text{g/l}$

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A			$\mu\text{g/l}$		
B	0,153	0,031	$\mu\text{g/l}$	101%	0,05
C	0,142	0,028	$\mu\text{g/l}$	93%	-0,47
D	0,144	0,0060	$\mu\text{g/l}$	95%	-0,38
E	0,133		$\mu\text{g/l}$	88%	-0,89
F	0,150	0,04	$\mu\text{g/l}$	99%	-0,09
G			$\mu\text{g/l}$		
H			$\mu\text{g/l}$		
I	0,15	0,03	$\mu\text{g/l}$	99%	-0,09
J	0,136	0,041	$\mu\text{g/l}$	89%	-0,75
K	0,13	0,03	$\mu\text{g/l}$	86%	-1,03
L	0,147	0,040	$\mu\text{g/l}$	97%	-0,23
M	0,154	0,020	$\mu\text{g/l}$	101%	0,09
N	0,192 *	0,03	$\mu\text{g/l}$	126%	1,88
O			$\mu\text{g/l}$		
P			$\mu\text{g/l}$		
Q	0,184 *	0,035	$\mu\text{g/l}$	121%	1,50
R	0,151	0,015	$\mu\text{g/l}$	99%	-0,05



	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	0,151 $\pm$ 0,015	0,145 $\pm$ 0,008	$\mu\text{g/l}$
Recov. $\pm$ CI(99%)	99,5 $\pm$ 10,1	95,1 $\pm$ 5,2	%
SD between labs	0,018	0,008	$\mu\text{g/l}$
RSD between labs	12,0	5,8	%
n for calculation	13	11	

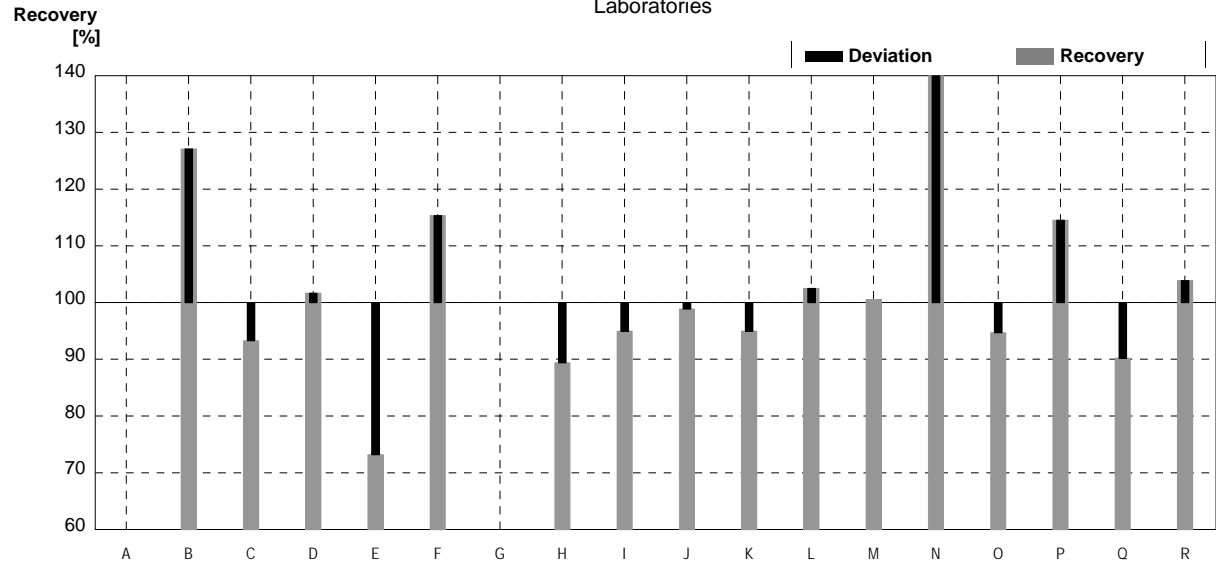
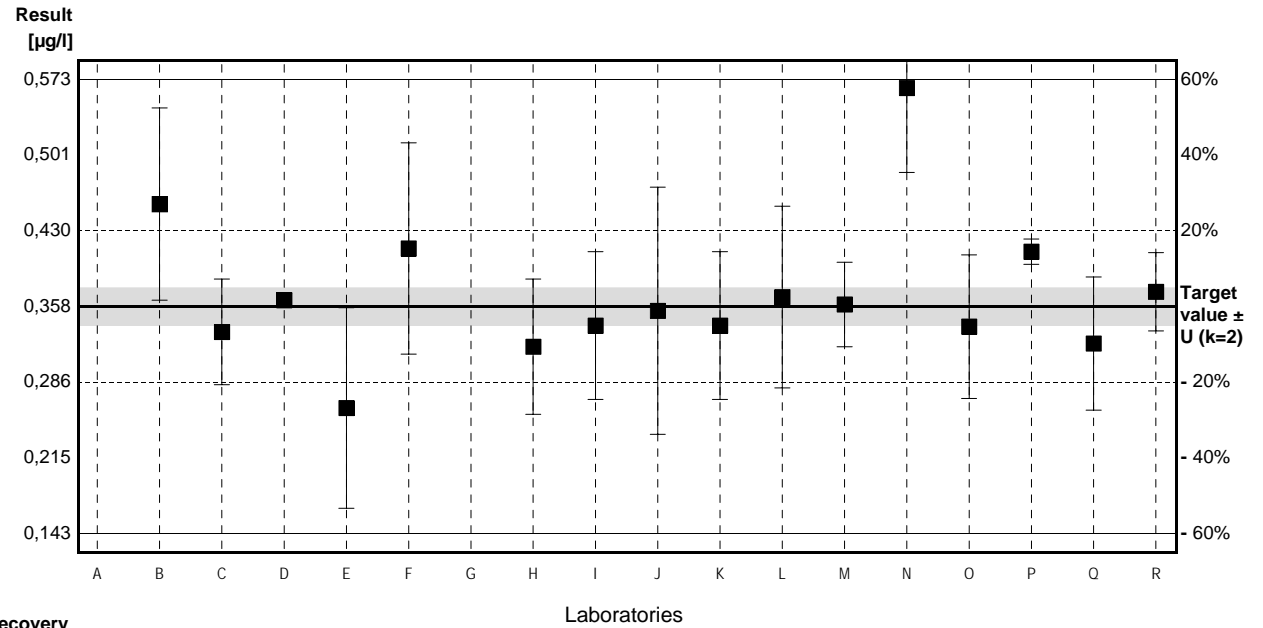
### Sample H84A

#### Parameter Propazine

Target value ± U (k=2) 0,358 µg/l ± 0,018 µg/l  
 IFA result ± U (k=2) 0,346 µg/l ± 0,055 µg/l  
 Stability test ± U (k=2) 0,335 µg/l ± 0,054 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	0,455 *	0,091	µg/l	127%	2,08
C	0,334	0,050	µg/l	93%	-0,52
D	0,364	0,0061	µg/l	102%	0,13
E	0,262	0,095	µg/l	73%	-2,06
F	0,413	0,100	µg/l	115%	1,18
G			µg/l		
H	0,32	0,064	µg/l	89%	-0,82
I	0,34	0,07	µg/l	95%	-0,39
J	0,354	0,117	µg/l	99%	-0,09
K	0,34	0,07	µg/l	95%	-0,39
L	0,367	0,086	µg/l	103%	0,19
M	0,360	0,040	µg/l	101%	0,04
N	0,565 *	0,08	µg/l	158%	4,45
O	0,339	0,068	µg/l	95%	-0,41
P	0,410	0,012	µg/l	115%	1,12
Q	0,323	0,063	µg/l	90%	-0,75
R	0,372	0,037	µg/l	104%	0,30

	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,370 ± 0,050	0,350 ± 0,030	µg/l
Recov. ± CI(99%)	103,3 ± 14,0	97,7 ± 8,5	%
SD between labs	0,068	0,038	µg/l
RSD between labs	18,4	10,8	%
n for calculation	16	14	



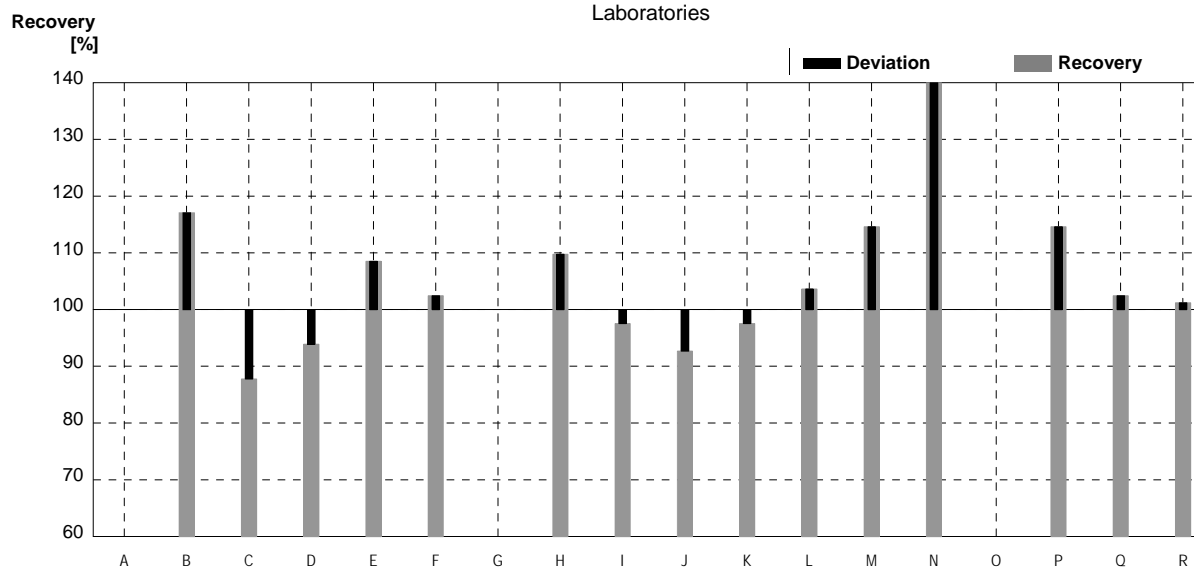
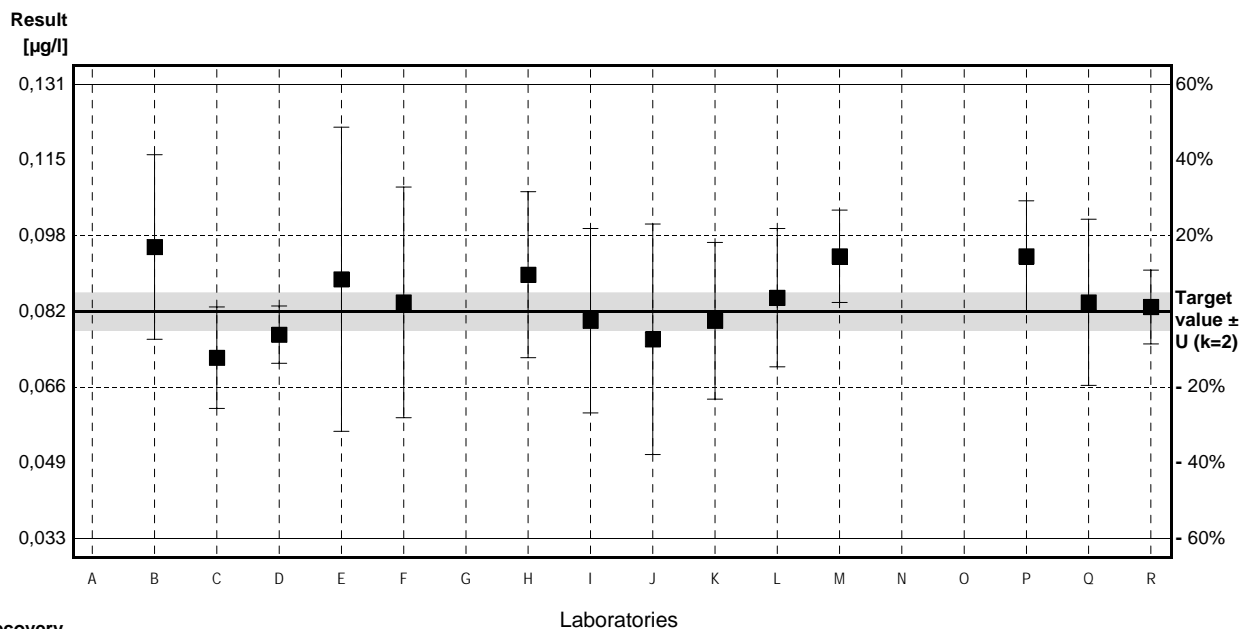
# Sample H84B

## Parameter Propazine

Target value ± U (k=2) 0,082 µg/l ± 0,004 µg/l  
 IFA result ± U (k=2) 0,063 µg/l ± 0,010 µg/l  
 Stability test ± U (k=2) 0,056 µg/l ± 0,009 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	0,096	0,020	µg/l	117%	1,31
C	0,072	0,011	µg/l	88%	-0,94
D	0,077	0,0062	µg/l	94%	-0,47
E	0,089	0,033	µg/l	109%	0,66
F	0,084	0,025	µg/l	102%	0,19
G			µg/l		
H	0,09	0,018	µg/l	110%	0,75
I	0,08	0,02	µg/l	98%	-0,19
J	0,076	0,025	µg/l	93%	-0,56
K	0,080	0,017	µg/l	98%	-0,19
L	0,085	0,015	µg/l	104%	0,28
M	0,094	0,010	µg/l	115%	1,13
N	0,218 *	0,03	µg/l	266%	12,76
O			µg/l		
P	0,094	0,012	µg/l	115%	1,13
Q	0,084	0,018	µg/l	102%	0,19
R	0,083	0,008	µg/l	101%	0,09

	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,093 ± 0,027	0,085 ± 0,006	µg/l
Recov. ± CI(99%)	114,0 ± 33,0	103,1 ± 7,2	%
SD between labs	0,035	0,007	µg/l
RSD between labs	37,6	8,6	%
n for calculation	15	14	



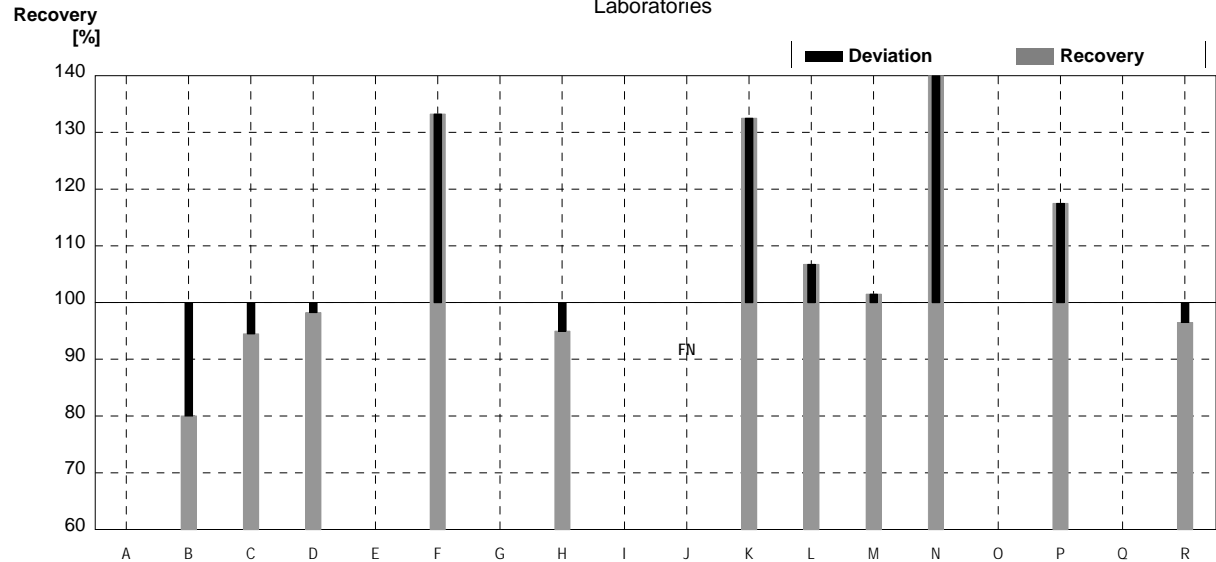
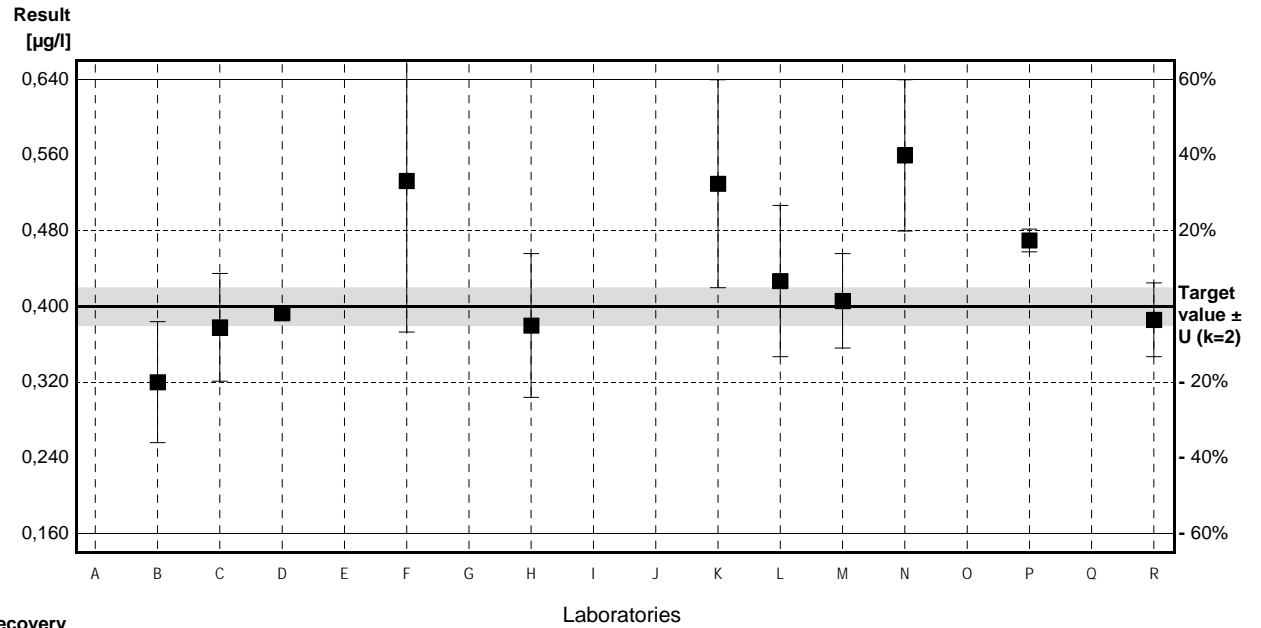
### Sample H84A

#### Parameter Sebuthylazine

Target value ± U (k=2) 0,400 µg/l ± 0,020 µg/l  
 IFA result ± U (k=2) 0,378 µg/l ± 0,030 µg/l  
 Stability test ± U (k=2) 0,386 µg/l ± 0,031 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	0,320	0,064	µg/l	80%	-1,82
C	0,378	0,057	µg/l	95%	-0,50
D	0,393	0,0050	µg/l	98%	-0,16
E			µg/l		
F	0,533	0,160	µg/l	133%	3,02
G			µg/l		
H	0,38	0,076	µg/l	95%	-0,45
I			µg/l		
J	<0,05		µg/l	FN	
K	0,53	0,11	µg/l	133%	2,95
L	0,427	0,080	µg/l	107%	0,61
M	0,406	0,050	µg/l	102%	0,14
N	0,560 *	0,08	µg/l	140%	3,64
O			µg/l		
P	0,470	0,012	µg/l	118%	1,59
Q			µg/l		
R	0,386	0,039	µg/l	97%	-0,32

	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,435 ± 0,074	0,422 ± 0,072	µg/l
Recov. ± CI(99%)	108,7 ± 18,5	105,6 ± 17,9	%
SD between labs	0,077	0,069	µg/l
RSD between labs	17,8	16,3	%
n for calculation	11	10	

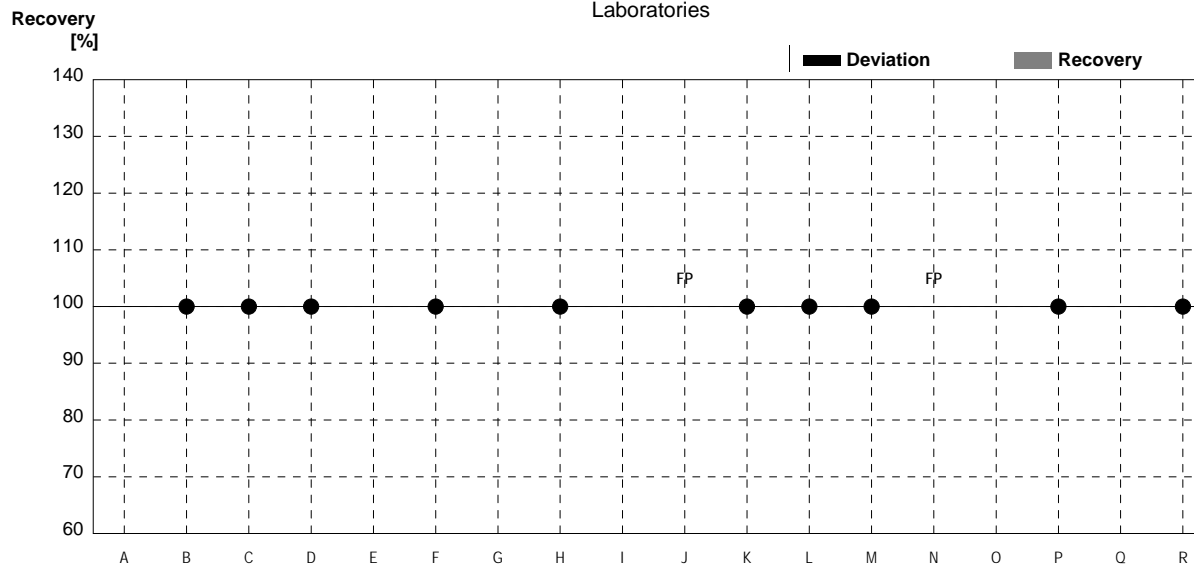
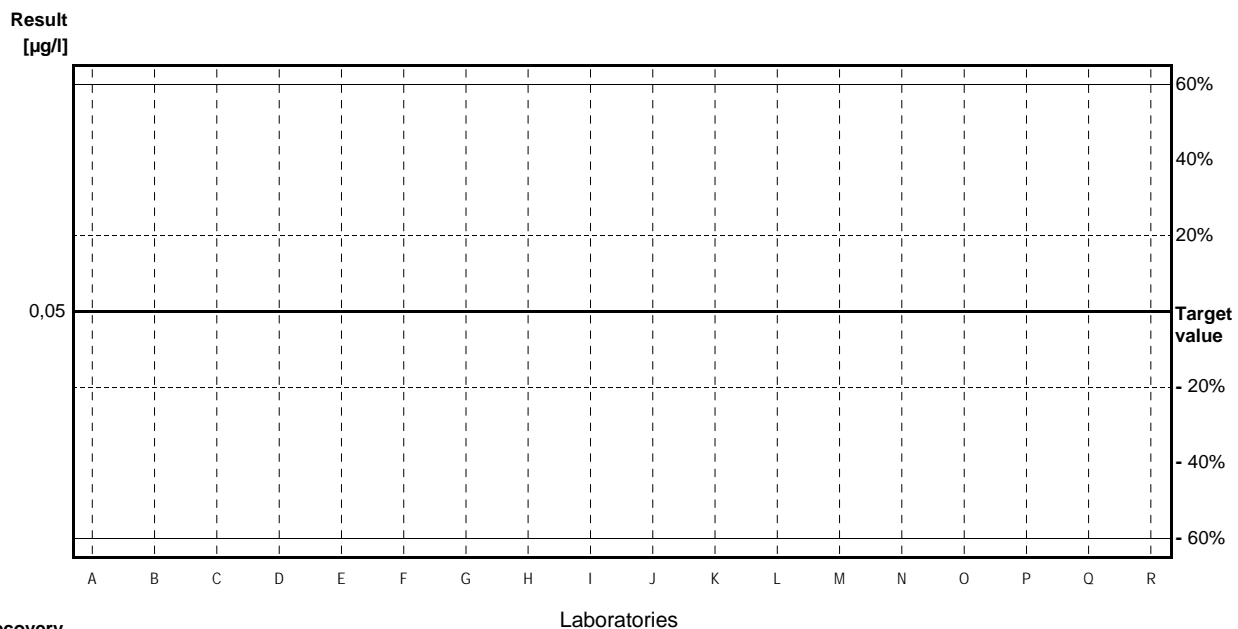


# Sample H84B

## Parameter Sebuthylazine

Target value <0,05 µg/l  
 IFA result <0,02 µg/l  
 Stability test <0,02 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	<0,02		µg/l	•	
C	<0,010		µg/l	•	
D	<0,050		µg/l	•	
E			µg/l		
F	<0,005	0,002	µg/l	•	
G			µg/l		
H	<0,05		µg/l	•	
I			µg/l		
J	0,381	0,148	µg/l	FP	
K	<0,003		µg/l	•	
L	<0,01		µg/l	•	
M	<0,05		µg/l	•	
N	0,195	0,03	µg/l	FP	
O			µg/l		
P	<0,007	0,012	µg/l	•	
Q			µg/l		
R	<0,030		µg/l	•	



	All results	Outliers excl.	Unit
Mean ± CI(99%)			µg/l
Recov. ± CI(99%)			%
SD between labs			µg/l
RSD between labs			%
n for calculation			

# Sample H84A

## Parameter Simazine

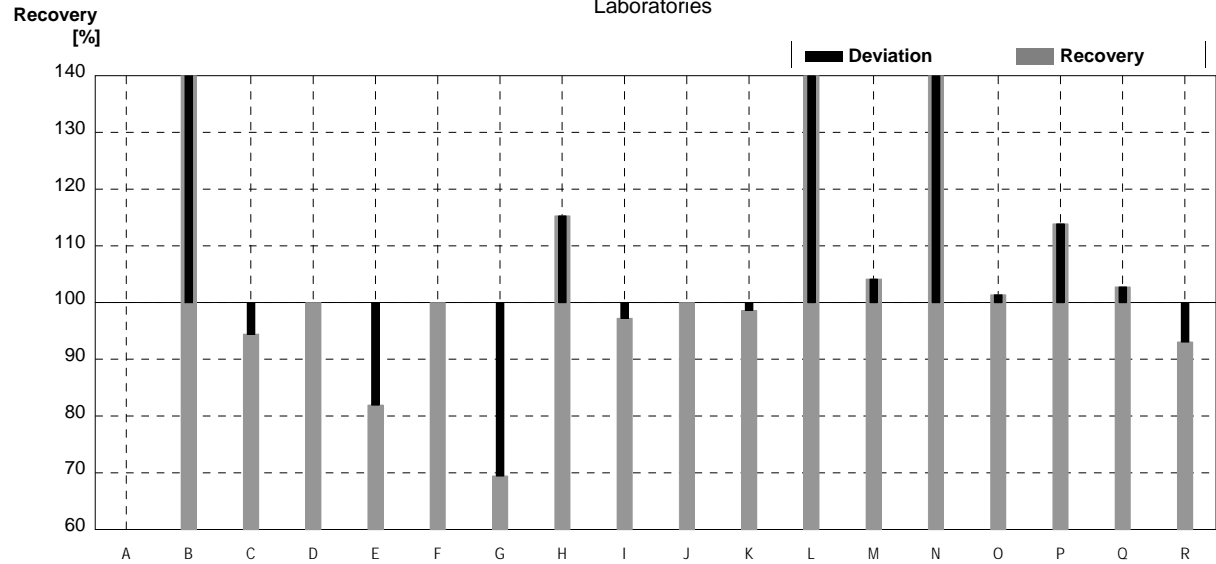
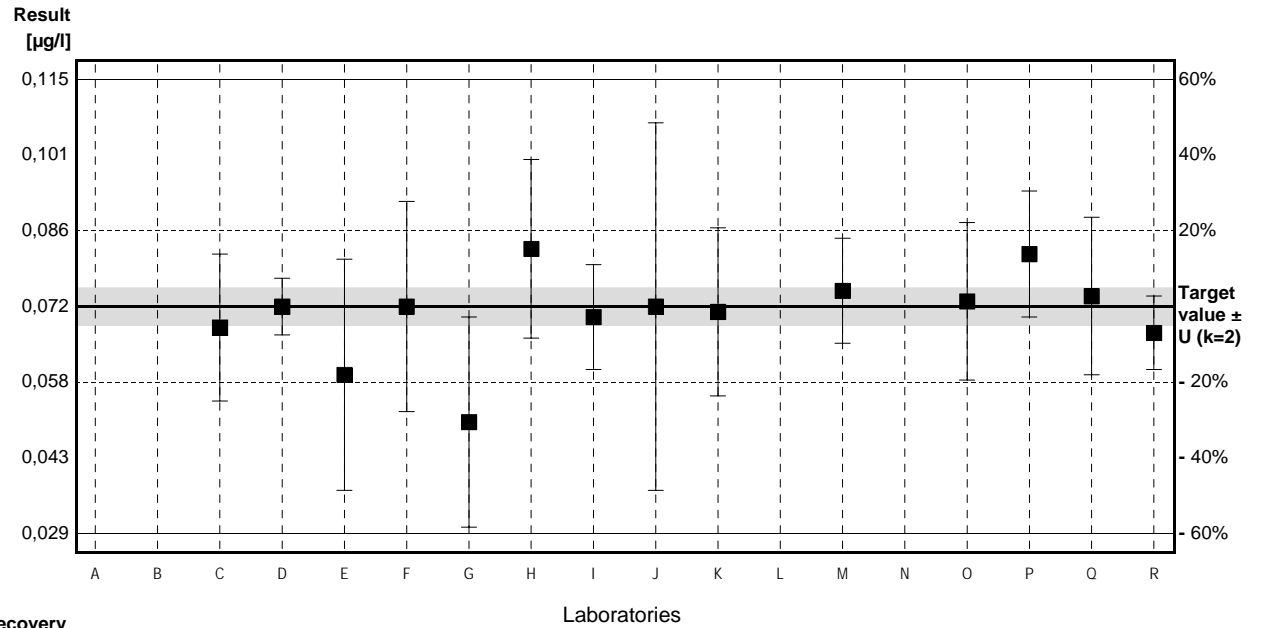
Target value ± U (k=2) 0,072 µg/l ± 0,004 µg/l

IFA result ± U (k=2) 0,074 µg/l ± 0,013 µg/l

Stability test ± U (k=2) 0,076 µg/l ± 0,013 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	0,195 *	0,039	µg/l	271%	12,20
C	0,068	0,014	µg/l	94%	-0,40
D	0,072	0,0054	µg/l	100%	0,00
E	0,059	0,022	µg/l	82%	-1,29
F	0,072	0,020	µg/l	100%	0,00
G	0,05 *	0,02	µg/l	69%	-2,18
H	0,083	0,017	µg/l	115%	1,09
I	0,07	0,01	µg/l	97%	-0,20
J	0,072	0,035	µg/l	100%	0,00
K	0,071	0,016	µg/l	99%	-0,10
L	0,477 *	0,089	µg/l	663%	40,18
M	0,075	0,010	µg/l	104%	0,30
N	0,131 *	0,03	µg/l	182%	5,85
O	0,073	0,015	µg/l	101%	0,10
P	0,082	0,012	µg/l	114%	0,99
Q	0,074	0,015	µg/l	103%	0,20
R	0,067	0,007	µg/l	93%	-0,50

	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,105 ± 0,072	0,072 ± 0,005	µg/l
Recov. ± CI(99%)	146,3 ± 99,8	100,2 ± 7,2	%
SD between labs	0,101	0,006	µg/l
RSD between labs	96,3	8,5	%
n for calculation	17	13	



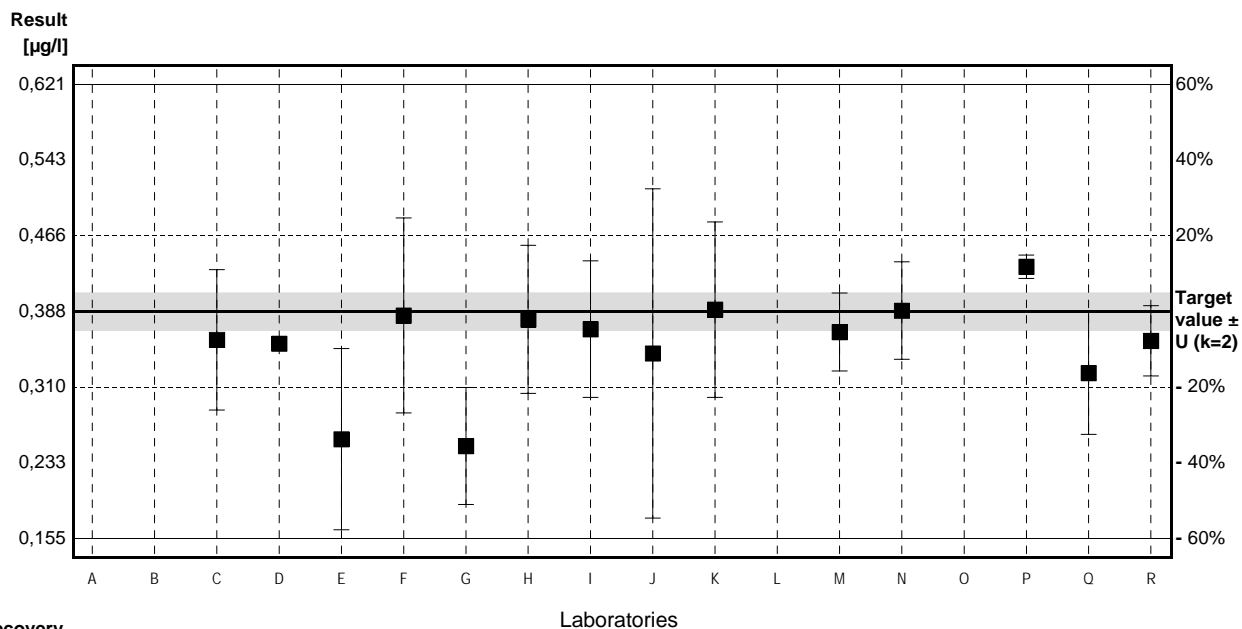


# Sample H84B

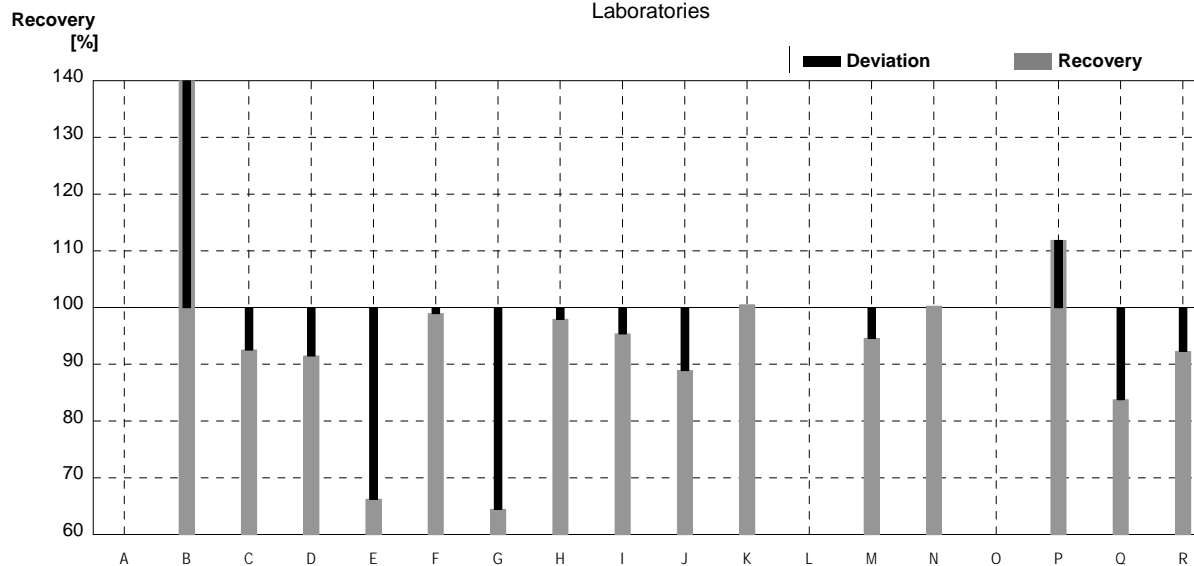
## Parameter Simazine

Target value  $\pm U$  (k=2) 0,388  $\mu\text{g/l}$   $\pm$  0,019  $\mu\text{g/l}$   
 IFA result  $\pm U$  (k=2) 0,394  $\mu\text{g/l}$   $\pm$  0,067  $\mu\text{g/l}$   
 Stability test  $\pm U$  (k=2) 0,380  $\mu\text{g/l}$   $\pm$  0,065  $\mu\text{g/l}$

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A			$\mu\text{g/l}$		
B	1,040 *	0,208	$\mu\text{g/l}$	268%	12,00
C	0,359	0,072	$\mu\text{g/l}$	93%	-0,53
D	0,355	0,0052	$\mu\text{g/l}$	91%	-0,61
E	0,257 *	0,093	$\mu\text{g/l}$	66%	-2,41
F	0,384	0,100	$\mu\text{g/l}$	99%	-0,07
G	0,25 *	0,06	$\mu\text{g/l}$	64%	-2,54
H	0,38	0,076	$\mu\text{g/l}$	98%	-0,15
I	0,37	0,07	$\mu\text{g/l}$	95%	-0,33
J	0,345	0,169	$\mu\text{g/l}$	89%	-0,79
K	0,39	0,09	$\mu\text{g/l}$	101%	0,04
L			$\mu\text{g/l}$		
M	0,367	0,040	$\mu\text{g/l}$	95%	-0,39
N	0,389	0,05	$\mu\text{g/l}$	100%	0,02
O			$\mu\text{g/l}$		
P	0,434	0,012	$\mu\text{g/l}$	112%	0,85
Q	0,325	0,063	$\mu\text{g/l}$	84%	-1,16
R	0,358	0,036	$\mu\text{g/l}$	92%	-0,55



	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	0,400 $\pm$ 0,141	0,371 $\pm$ 0,025	$\mu\text{g/l}$
Recov. $\pm$ CI(99%)	103,1 $\pm$ 36,4	95,7 $\pm$ 6,3	%
SD between labs	0,183	0,027	$\mu\text{g/l}$
RSD between labs	45,8	7,4	%
n for calculation	15	12	

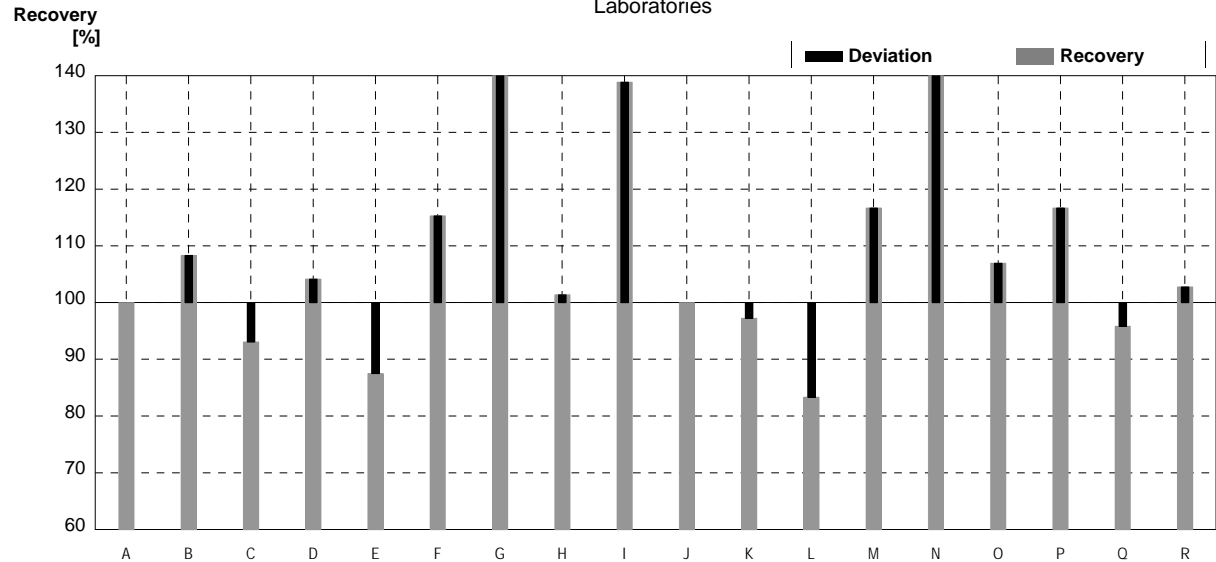
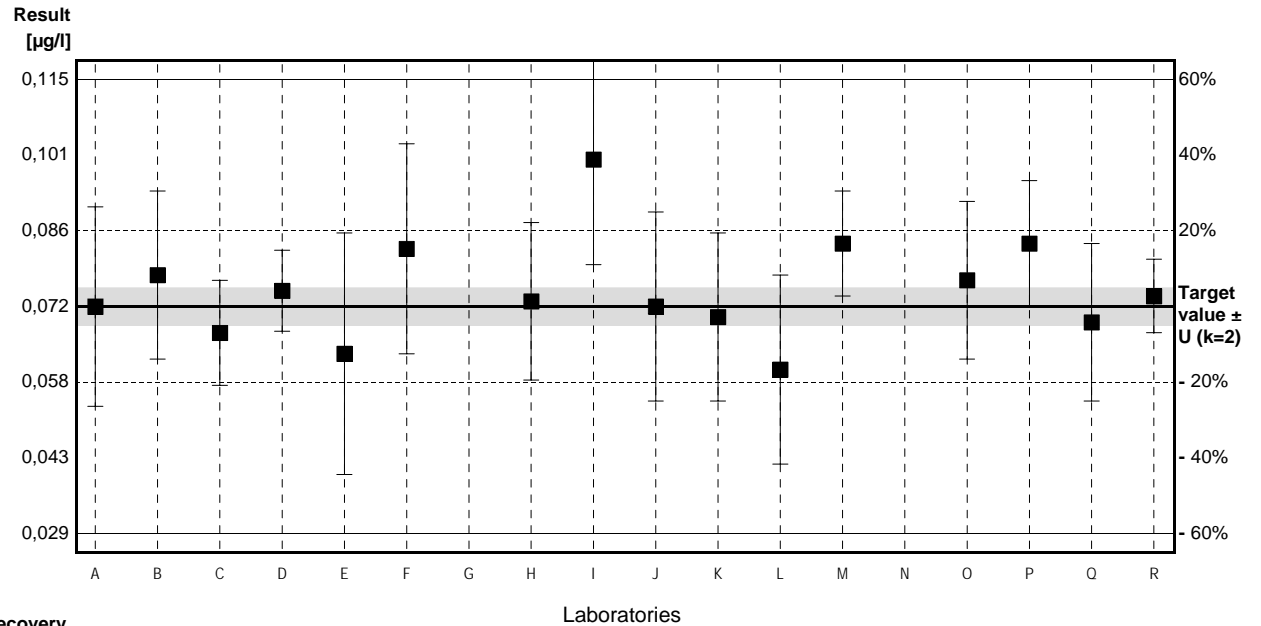


### Sample H84A

#### Parameter Terbutylazine

Target value  $\pm U$  (k=2) 0,072  $\mu\text{g/l}$   $\pm$  0,004  $\mu\text{g/l}$   
 IFA result  $\pm U$  (k=2) 0,066  $\mu\text{g/l}$   $\pm$  0,009  $\mu\text{g/l}$   
 Stability test  $\pm U$  (k=2) 0,082  $\mu\text{g/l}$   $\pm$  0,011  $\mu\text{g/l}$

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	0,072	0,019	$\mu\text{g/l}$	100%	0,00
B	0,078	0,016	$\mu\text{g/l}$	108%	0,60
C	0,067	0,010	$\mu\text{g/l}$	93%	-0,50
D	0,075	0,0077	$\mu\text{g/l}$	104%	0,30
E	0,063	0,023	$\mu\text{g/l}$	88%	-0,89
F	0,083	0,020	$\mu\text{g/l}$	115%	1,09
G	0,28 *	0,06	$\mu\text{g/l}$	389%	20,63
H	0,073	0,015	$\mu\text{g/l}$	101%	0,10
I	0,10	0,02	$\mu\text{g/l}$	139%	2,78
J	0,072	0,018	$\mu\text{g/l}$	100%	0,00
K	0,070	0,016	$\mu\text{g/l}$	97%	-0,20
L	0,060	0,018	$\mu\text{g/l}$	83%	-1,19
M	0,084	0,010	$\mu\text{g/l}$	117%	1,19
N	0,206 *	0,03	$\mu\text{g/l}$	286%	13,29
O	0,077	0,015	$\mu\text{g/l}$	107%	0,50
P	0,084	0,012	$\mu\text{g/l}$	117%	1,19
Q	0,069	0,015	$\mu\text{g/l}$	96%	-0,30
R	0,074	0,007	$\mu\text{g/l}$	103%	0,20



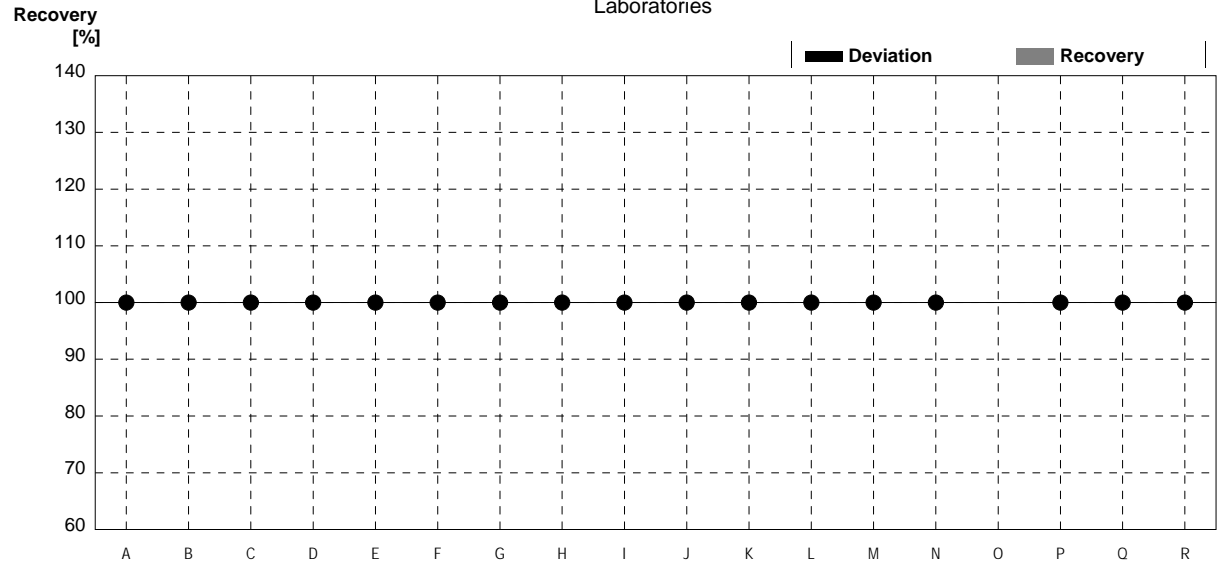
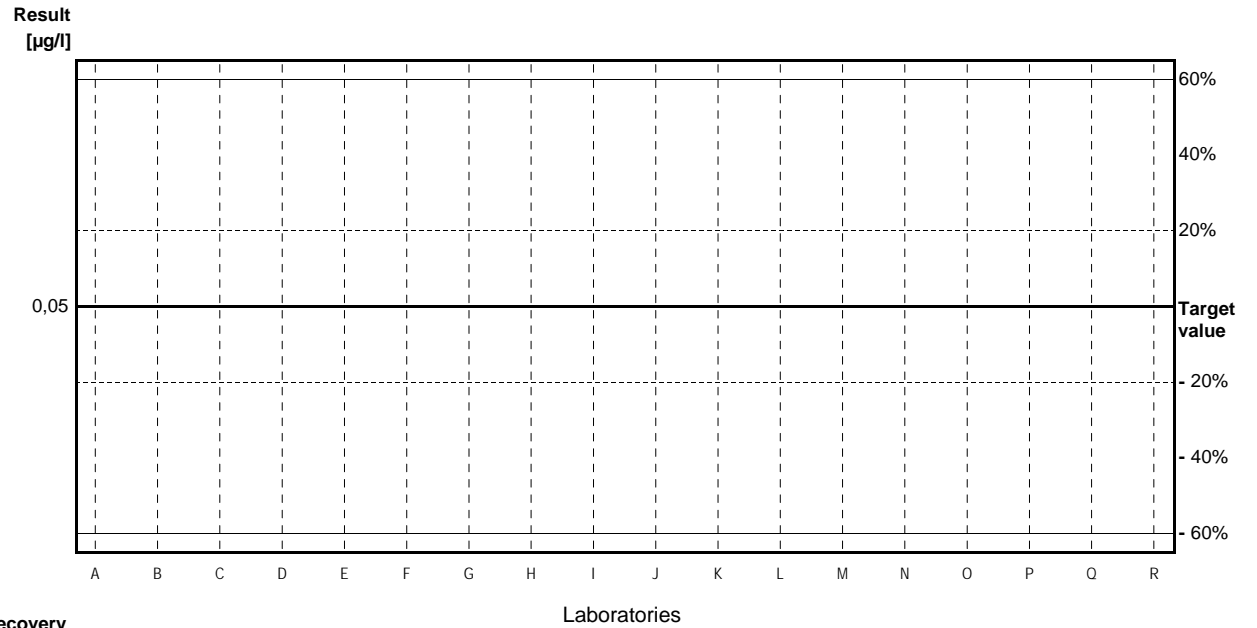
	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	0,094 $\pm$ 0,039	0,075 $\pm$ 0,007	$\mu\text{g/l}$
Recov. $\pm$ CI(99%)	130,2 $\pm$ 53,6	104,3 $\pm$ 9,8	%
SD between labs	0,056	0,010	$\mu\text{g/l}$
RSD between labs	60,3	12,8	%
n for calculation	18	16	

# Sample H84B

## Parameter Terbutylazine

Target value <0,05 µg/l  
 IFA result <0,01 µg/l  
 Stability test <0,01 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A	<0,025		µg/l	•	
B	<0,02		µg/l	•	
C	<0,010		µg/l	•	
D	<0,050		µg/l	•	
E	<0,01		µg/l	•	
F	<0,005	0,002	µg/l	•	
G	<0,01		µg/l	•	
H	<0,05		µg/l	•	
I	<0,02		µg/l	•	
J	<0,05		µg/l	•	
K	<0,004		µg/l	•	
L	<0,01		µg/l	•	
M	<0,05		µg/l	•	
N	<0,05		µg/l	•	
O			µg/l		
P	<0,009	0,012	µg/l	•	
Q	<0,005		µg/l	•	
R	<0,030		µg/l	•	



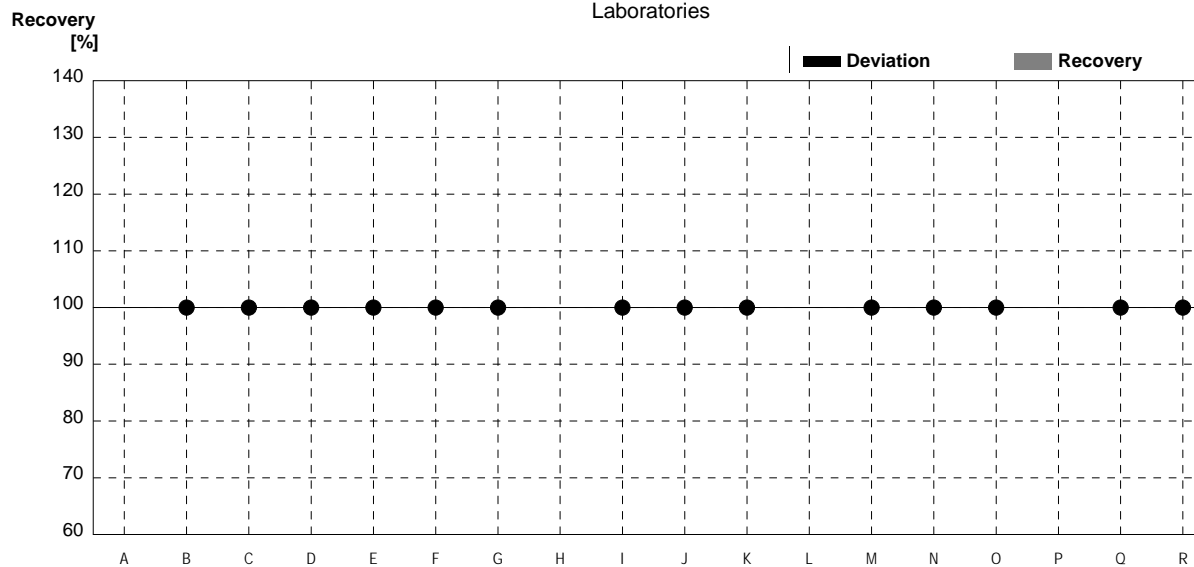
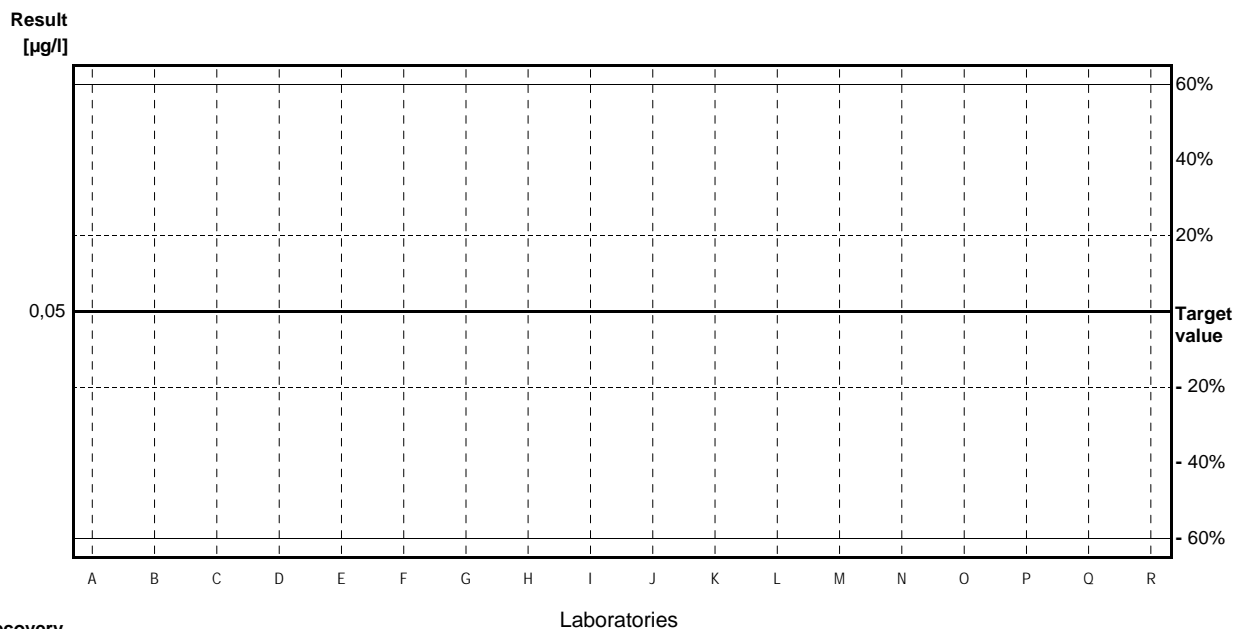
	All results	Outliers excl.	Unit
Mean ± CI(99%)			µg/l
Recov. ± CI(99%)			%
SD between labs			µg/l
RSD between labs			%
n for calculation			

# Sample H84A

## Parameter Terbutryn

Target value <0,05 µg/l  
 IFA result <0,01 µg/l  
 Stability test <0,01 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	<0,02		µg/l	•	
C	<0,010		µg/l	•	
D	<0,050		µg/l	•	
E	<0,01		µg/l	•	
F	<0,005	0,002	µg/l	•	
G	<0,01		µg/l	•	
H			µg/l		
I	<0,02		µg/l	•	
J	<0,05		µg/l	•	
K	<0,004		µg/l	•	
L			µg/l		
M	<0,05		µg/l	•	
N	<0,05		µg/l	•	
O	<0,010		µg/l	•	
P			µg/l		
Q	<0,005		µg/l	•	
R	<0,030		µg/l	•	



	All results	Outliers excl.	Unit
Mean ± CI(99%)			µg/l
Recov. ± CI(99%)			%
SD between labs			µg/l
RSD between labs			%
n for calculation			

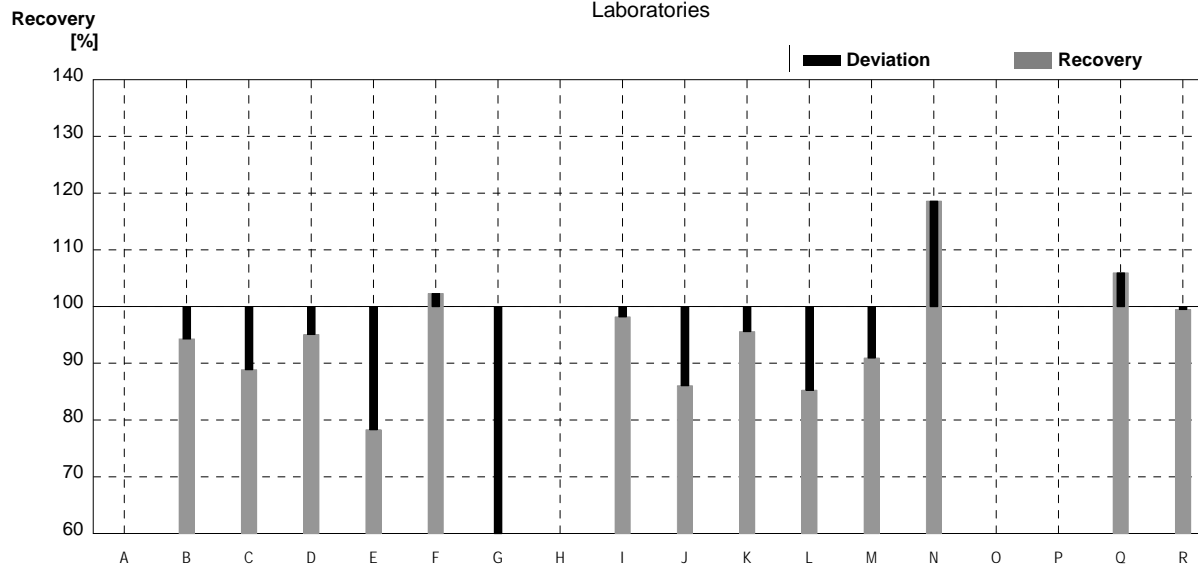
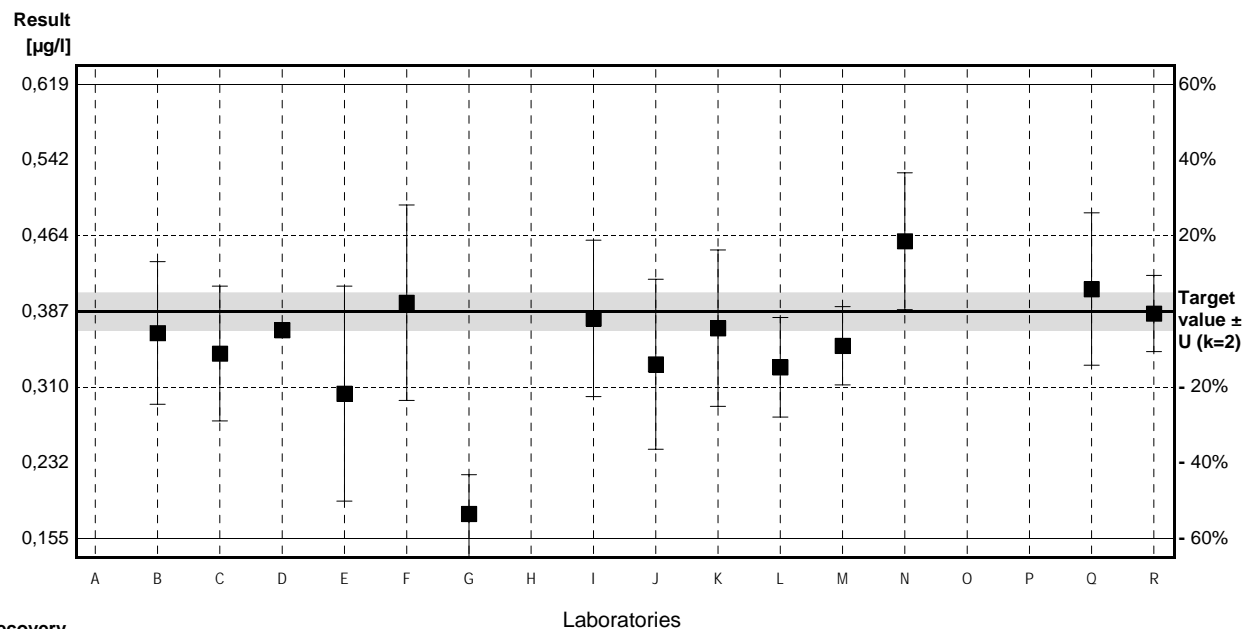
## Sample H84B

### Parameter Terbutryn

Target value  $\pm U$  (k=2) 0,387  $\mu\text{g/l}$   $\pm$  0,019  $\mu\text{g/l}$   
 IFA result  $\pm U$  (k=2) 0,392  $\mu\text{g/l}$   $\pm$  0,055  $\mu\text{g/l}$   
 Stability test  $\pm U$  (k=2) 0,401  $\mu\text{g/l}$   $\pm$  0,056  $\mu\text{g/l}$

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A			$\mu\text{g/l}$		
B	0,365	0,073	$\mu\text{g/l}$	94%	-0,38
C	0,344	0,069	$\mu\text{g/l}$	89%	-0,74
D	0,368	0,0070	$\mu\text{g/l}$	95%	-0,33
E	0,303	0,11	$\mu\text{g/l}$	78%	-1,45
F	0,396	0,100	$\mu\text{g/l}$	102%	0,16
G	0,18 *	0,04	$\mu\text{g/l}$	47%	-3,57
H			$\mu\text{g/l}$		
I	0,38	0,08	$\mu\text{g/l}$	98%	-0,12
J	0,333	0,087	$\mu\text{g/l}$	86%	-0,93
K	0,37	0,08	$\mu\text{g/l}$	96%	-0,29
L	0,330	0,051	$\mu\text{g/l}$	85%	-0,98
M	0,352	0,040	$\mu\text{g/l}$	91%	-0,60
N	0,459	0,07	$\mu\text{g/l}$	119%	1,24
O			$\mu\text{g/l}$		
P			$\mu\text{g/l}$		
Q	0,410	0,078	$\mu\text{g/l}$	106%	0,40
R	0,385	0,039	$\mu\text{g/l}$	99%	-0,03

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	0,355 $\pm$ 0,051	0,369 $\pm$ 0,034	$\mu\text{g/l}$
Recov. $\pm$ CI(99%)	91,8 $\pm$ 13,2	95,3 $\pm$ 8,7	%
SD between labs	0,063	0,040	$\mu\text{g/l}$
RSD between labs	17,8	10,8	%
n for calculation	14	13	





# Illustration of Results Laboratory Oriented Part

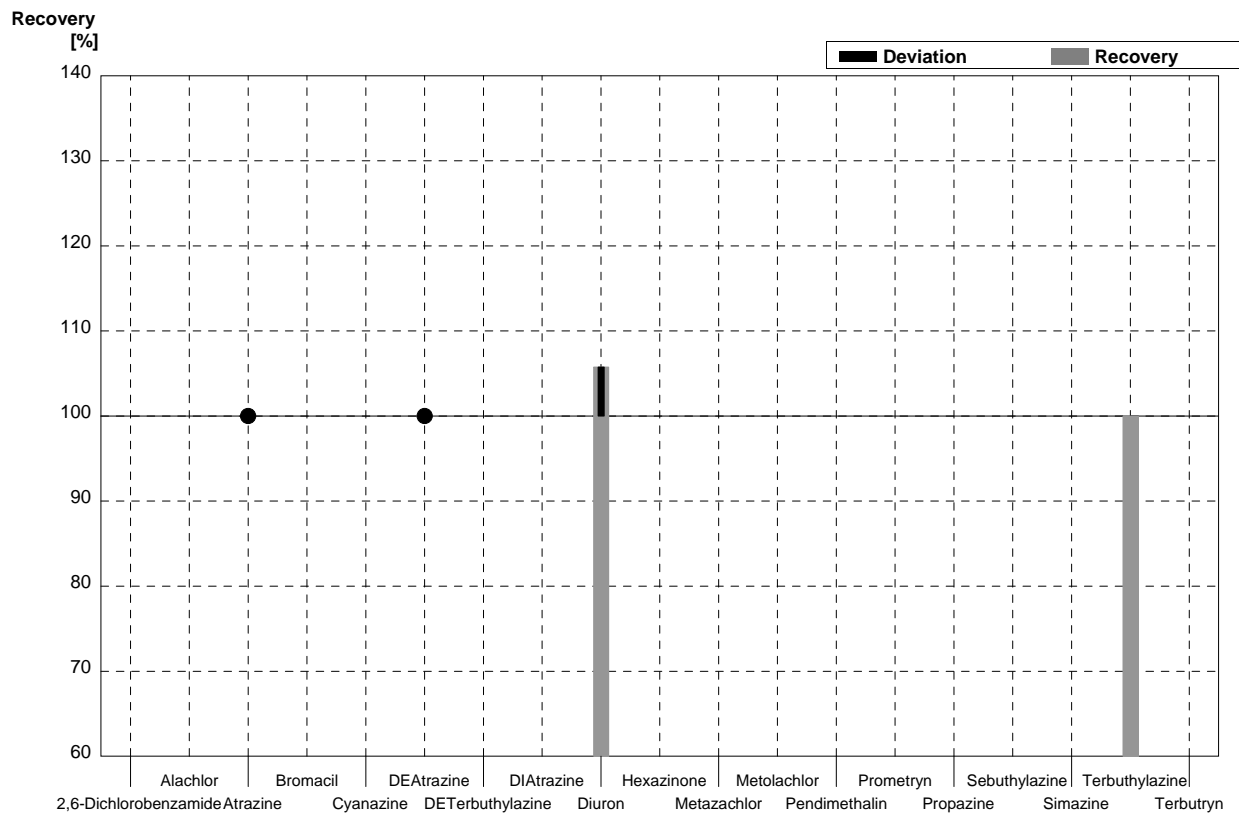
Round H84  
Herbicides

Sample Dispatch: 3 September 2012



**Sample H84A**  
**Laboratory A**

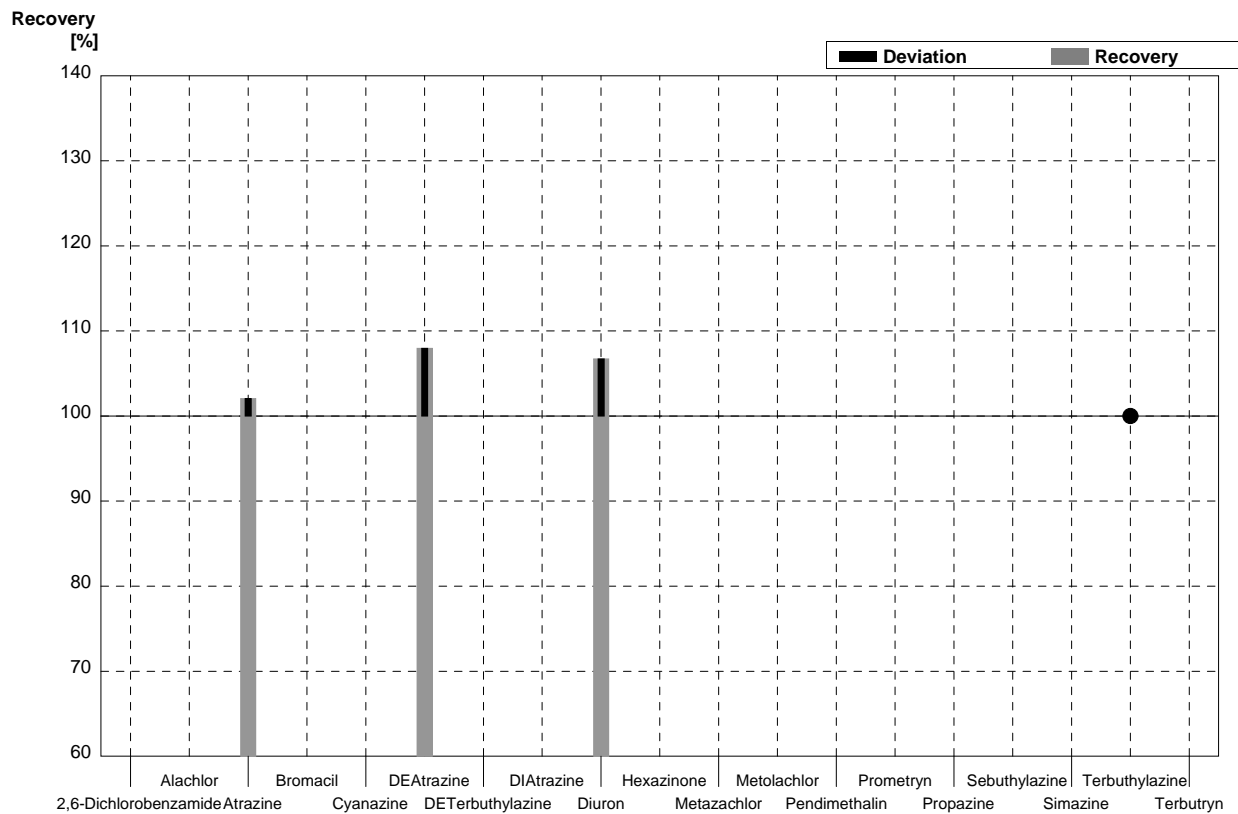
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,162	0,008			µg/l	
Alachlor	0,122	0,006			µg/l	
Atrazine	<0,05		<0,025		µg/l	•
Bromacil	0,282	0,014			µg/l	
Cyanazine	<0,05				µg/l	
DEAtrazine	<0,05		<0,025		µg/l	•
DETerbutylazine	<0,05				µg/l	
DIAtazine	0,061	0,003			µg/l	
Diuron	0,104	0,005	0,110	0,033	µg/l	106%
Hexazinone	0,250	0,013			µg/l	
Metazachlor	<0,05				µg/l	
Metolachlor	0,372	0,019			µg/l	
Pendimethalin	0,114	0,006			µg/l	
Prometryn	0,275	0,014			µg/l	
Propazine	0,358	0,018			µg/l	
Sebuthylazine	0,400	0,020			µg/l	
Simazine	0,072	0,004			µg/l	
Terbutylazine	0,072	0,004	0,072	0,019	µg/l	100%
Terbutryn	<0,05				µg/l	





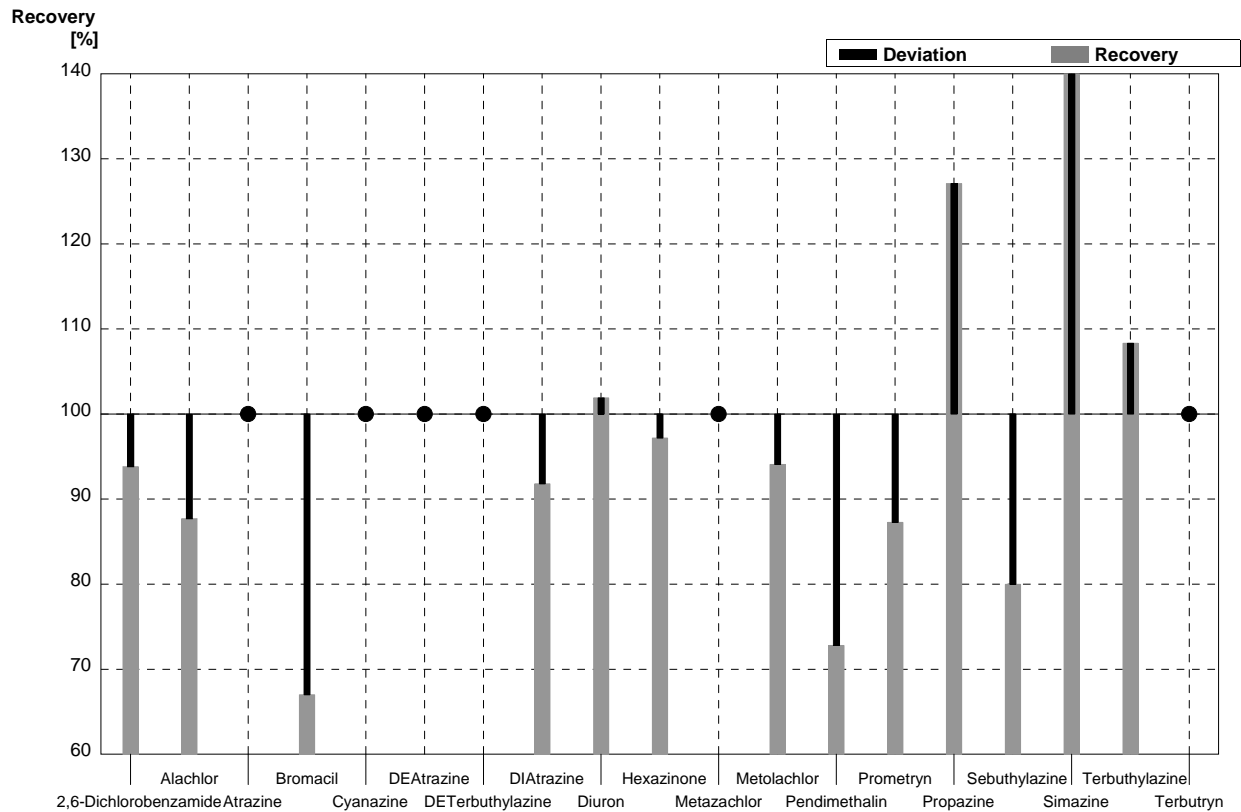
**Sample H84B**  
**Laboratory A**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	<0,05				µg/l	
Alachlor	<0,05				µg/l	
Atrazine	0,146	0,007	0,149	0,045	µg/l	102%
Bromacil	0,163	0,008			µg/l	
Cyanazine	0,304	0,015			µg/l	
DEAtrazine	0,226	0,011	0,244	0,072	µg/l	108%
DETerbutylazine	0,181	0,009			µg/l	
DIAtazine	0,180	0,009			µg/l	
Diuron	0,401	0,020	0,428	0,128	µg/l	107%
Hexazinone	0,100	0,005			µg/l	
Metazachlor	0,253	0,013			µg/l	
Metolachlor	0,106	0,005			µg/l	
Pendimethalin	0,403	0,020			µg/l	
Prometryn	0,152	0,008			µg/l	
Propazine	0,082	0,004			µg/l	
Sebuthylazine	<0,05				µg/l	
Simazine	0,388	0,019			µg/l	
Terbutylazine	<0,05		<0,025		µg/l	•
Terbutryn	0,387	0,019			µg/l	



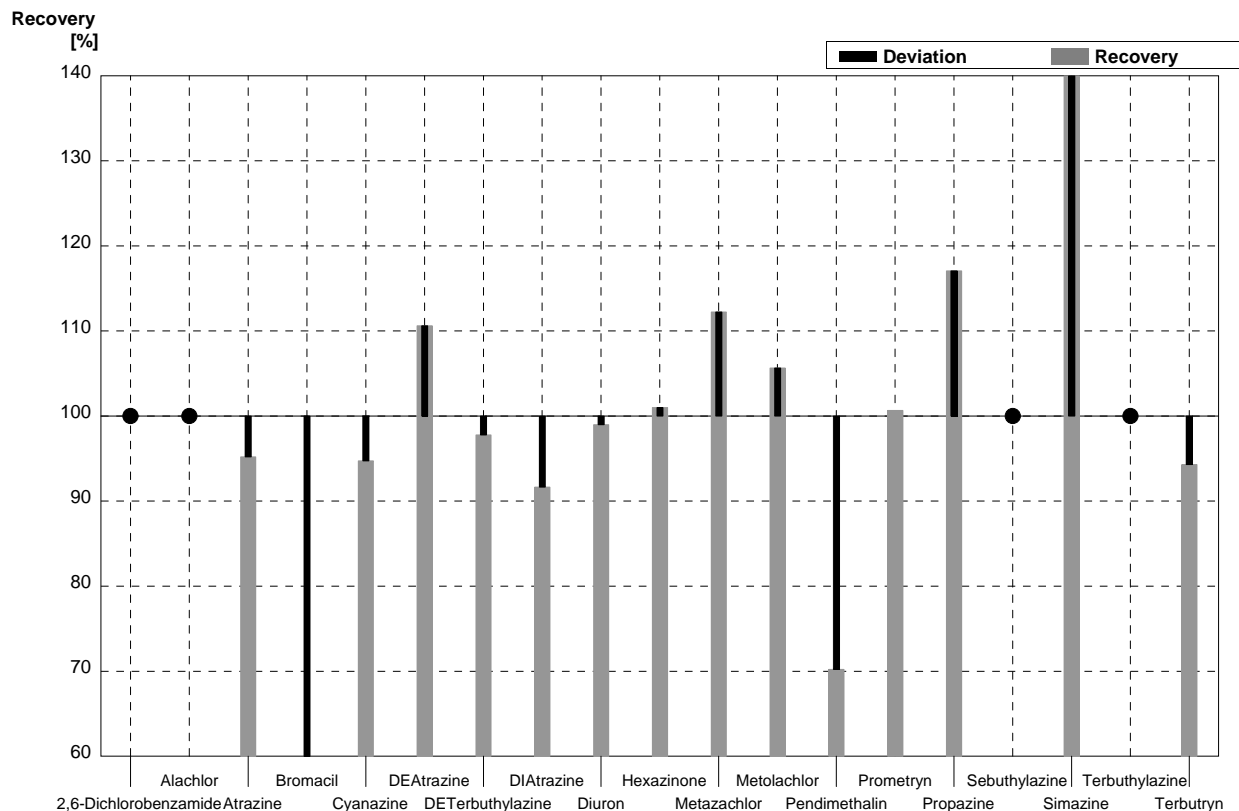
**Sample H84A**  
**Laboratory B**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,162	0,008	0,152	0,030	µg/l	94%
Alachlor	0,122	0,006	0,107	0,021	µg/l	88%
Atrazine	<0,05		<0,02		µg/l	•
Bromacil	0,282	0,014	0,189	0,038	µg/l	67%
Cyanazine	<0,05		<0,02		µg/l	•
DEAtrazine	<0,05		<0,02		µg/l	•
DETerbutylazine	<0,05		<0,02		µg/l	•
DIAtrazine	0,061	0,003	0,056	0,011	µg/l	92%
Diuron	0,104	0,005	0,106	0,021	µg/l	102%
Hexazinone	0,250	0,013	0,243	0,049	µg/l	97%
Metazachlor	<0,05		<0,02		µg/l	•
Metolachlor	0,372	0,019	0,350	0,070	µg/l	94%
Pendimethalin	0,114	0,006	0,083	0,017	µg/l	73%
Prometryn	0,275	0,014	0,240	0,048	µg/l	87%
Propazine	0,358	0,018	0,455	0,091	µg/l	127%
Sebuthylazine	0,400	0,020	0,320	0,064	µg/l	80%
Simazine	0,072	0,004	0,195	0,039	µg/l	271%
Terbutylazine	0,072	0,004	0,078	0,016	µg/l	108%
Terbutryn	<0,05		<0,02		µg/l	•



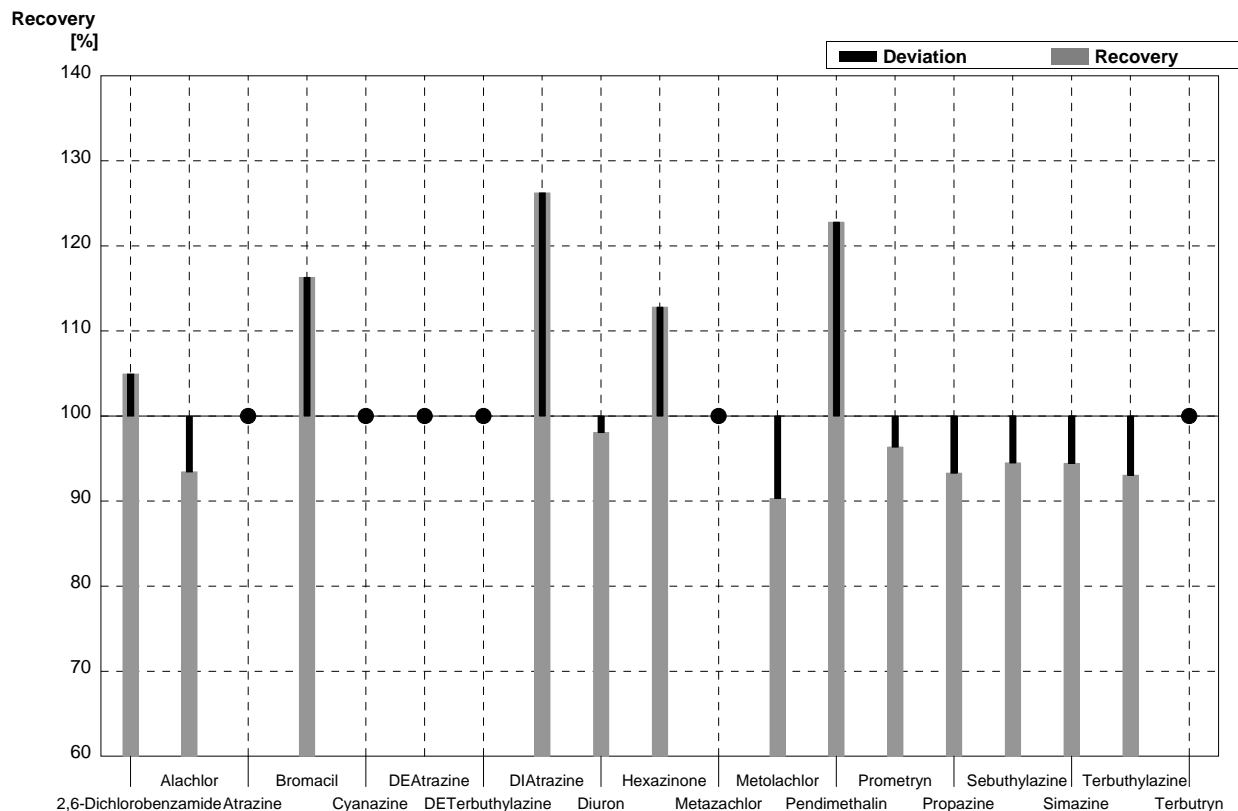
**Sample H84B**  
**Laboratory B**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	<0,05		<0,02		µg/l	•
Alachlor	<0,05		<0,02		µg/l	•
Atrazine	0,146	0,007	0,139	0,028	µg/l	95%
Bromacil	0,163	0,008	0,085	0,017	µg/l	52%
Cyanazine	0,304	0,015	0,288	0,058	µg/l	95%
DEAtrazine	0,226	0,011	0,250	0,050	µg/l	111%
DETerbutylazine	0,181	0,009	0,177	0,035	µg/l	98%
DIAtrazine	0,180	0,009	0,165	0,033	µg/l	92%
Diuron	0,401	0,020	0,397	0,079	µg/l	99%
Hexazinone	0,100	0,005	0,101	0,020	µg/l	101%
Metazachlor	0,253	0,013	0,284	0,057	µg/l	112%
Metolachlor	0,106	0,005	0,112	0,022	µg/l	106%
Pendimethalin	0,403	0,020	0,283	0,057	µg/l	70%
Prometryn	0,152	0,008	0,153	0,031	µg/l	101%
Propazine	0,082	0,004	0,096	0,020	µg/l	117%
Sebuthylazine	<0,05		<0,02		µg/l	•
Simazine	0,388	0,019	1,040	0,208	µg/l	268%
Terbutylazine	<0,05		<0,02		µg/l	•
Terbutryn	0,387	0,019	0,365	0,073	µg/l	94%



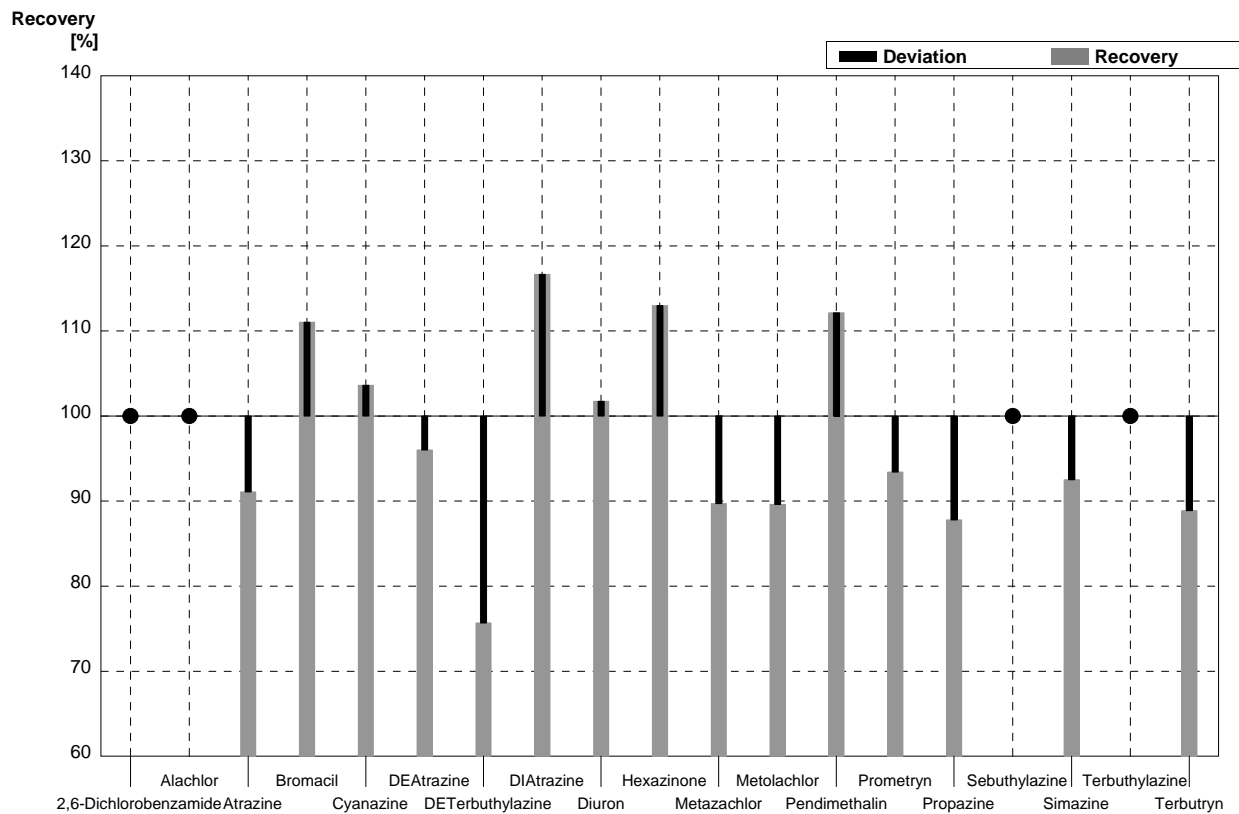
**Sample H84A**  
**Laboratory C**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,162	0,008	0,170	0,042	µg/l	105%
Alachlor	0,122	0,006	0,114	0,023	µg/l	93%
Atrazine	<0,05		<0,010		µg/l	•
Bromacil	0,282	0,014	0,328	0,098	µg/l	116%
Cyanazine	<0,05		<0,015		µg/l	•
DEAtrazine	<0,05		<0,010		µg/l	•
DETerbutylazine	<0,05		<0,010		µg/l	•
DIAtrazine	0,061	0,003	0,077	0,023	µg/l	126%
Diuron	0,104	0,005	0,102	0,015	µg/l	98%
Hexazinone	0,250	0,013	0,282	0,085	µg/l	113%
Metazachlor	<0,05		<0,015		µg/l	•
Metolachlor	0,372	0,019	0,336	0,050	µg/l	90%
Pendimethalin	0,114	0,006	0,140	0,042	µg/l	123%
Prometryn	0,275	0,014	0,265	0,053	µg/l	96%
Propazine	0,358	0,018	0,334	0,050	µg/l	93%
Sebuthylazine	0,400	0,020	0,378	0,057	µg/l	95%
Simazine	0,072	0,004	0,068	0,014	µg/l	94%
Terbutylazine	0,072	0,004	0,067	0,010	µg/l	93%
Terbutryn	<0,05		<0,010		µg/l	•



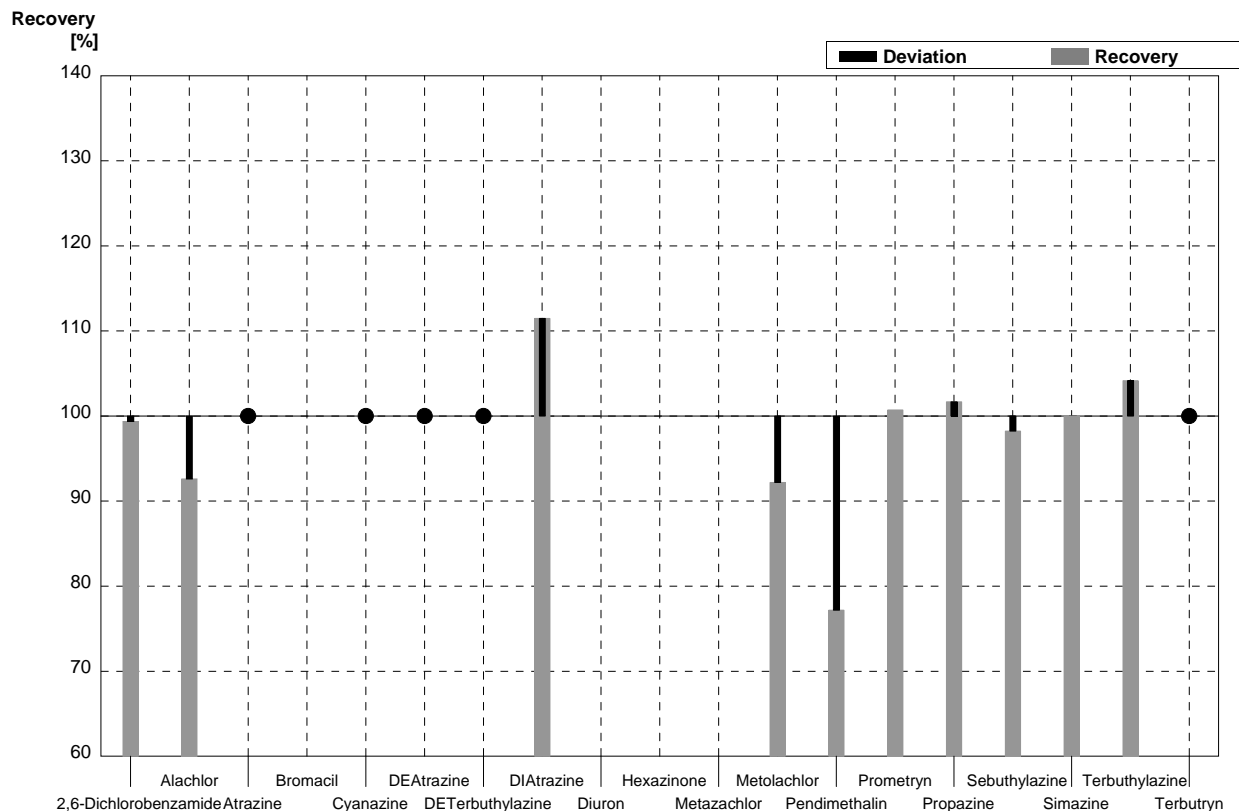
**Sample H84B**  
**Laboratory C**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	<0,05		<0,020		µg/l	•
Alachlor	<0,05		<0,010		µg/l	•
Atrazine	0,146	0,007	0,133	0,020	µg/l	91%
Bromacil	0,163	0,008	0,181	0,054	µg/l	111%
Cyanazine	0,304	0,015	0,315	0,094	µg/l	104%
DEAtrazine	0,226	0,011	0,217	0,043	µg/l	96%
DETerbutylazine	0,181	0,009	0,137	0,027	µg/l	76%
DIAtrazine	0,180	0,009	0,210	0,063	µg/l	117%
Diuron	0,401	0,020	0,408	0,061	µg/l	102%
Hexazinone	0,100	0,005	0,113	0,034	µg/l	113%
Metazachlor	0,253	0,013	0,227	0,045	µg/l	90%
Metolachlor	0,106	0,005	0,095	0,014	µg/l	90%
Pendimethalin	0,403	0,020	0,452	0,136	µg/l	112%
Prometryn	0,152	0,008	0,142	0,028	µg/l	93%
Propazine	0,082	0,004	0,072	0,011	µg/l	88%
Sebuthylazine	<0,05		<0,010		µg/l	•
Simazine	0,388	0,019	0,359	0,072	µg/l	93%
Terbutylazine	<0,05		<0,010		µg/l	•
Terbutryn	0,387	0,019	0,344	0,069	µg/l	89%



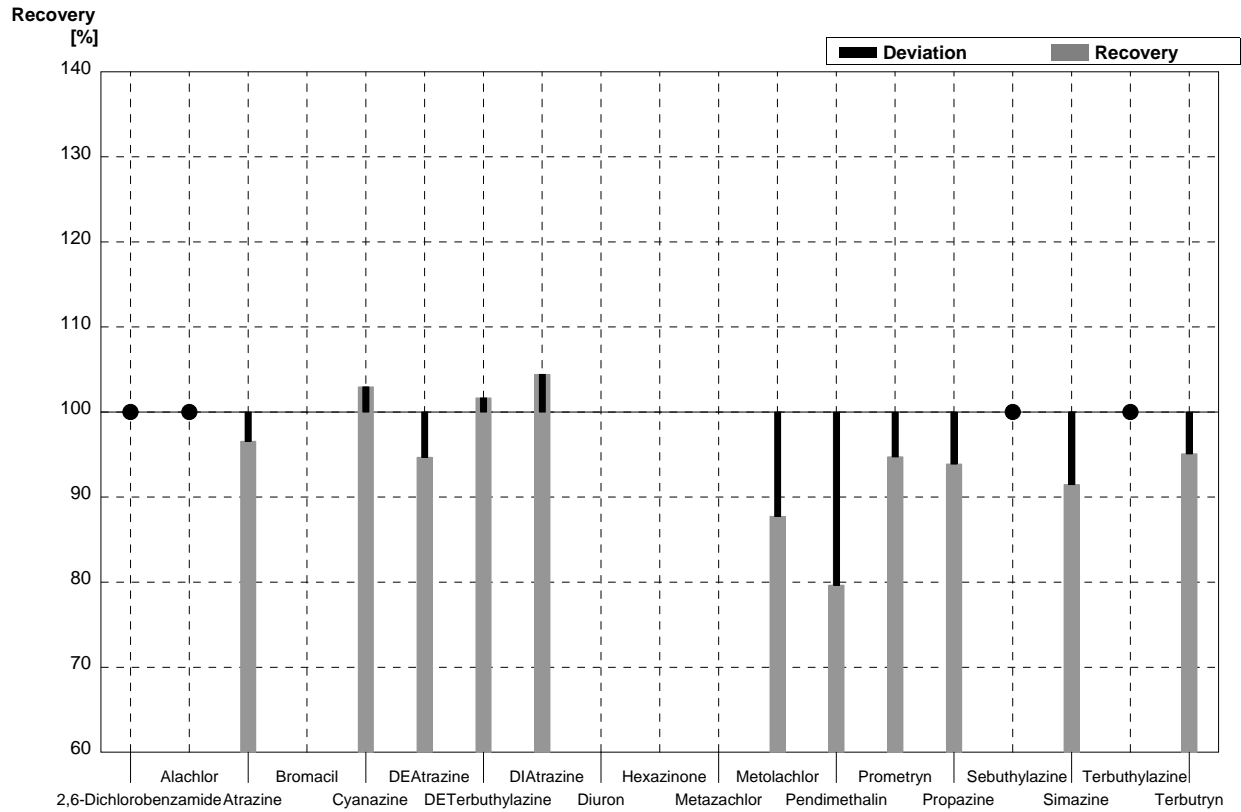
**Sample H84A**  
**Laboratory D**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,162	0,008	0,161	0,0040	µg/l	99%
Alachlor	0,122	0,006	0,113	0,0116	µg/l	93%
Atrazine	<0,05		<0,050		µg/l	•
Bromacil	0,282	0,014			µg/l	
Cyanazine	<0,05		<0,050		µg/l	•
DEAtrazine	<0,05		<0,050		µg/l	•
DETerbutylazine	<0,05		<0,050		µg/l	•
DIAtrazine	0,061	0,003	0,068	0,0045	µg/l	111%
Diuron	0,104	0,005			µg/l	
Hexazinone	0,250	0,013			µg/l	
Metazachlor	<0,05				µg/l	
Metolachlor	0,372	0,019	0,343	0,0064	µg/l	92%
Pendimethalin	0,114	0,006	0,088	0,0213	µg/l	77%
Prometryn	0,275	0,014	0,277	0,0059	µg/l	101%
Propazine	0,358	0,018	0,364	0,0061	µg/l	102%
Sebuthylazine	0,400	0,020	0,393	0,0050	µg/l	98%
Simazine	0,072	0,004	0,072	0,0054	µg/l	100%
Terbutylazine	0,072	0,004	0,075	0,0077	µg/l	104%
Terbutryn	<0,05		<0,050		µg/l	•



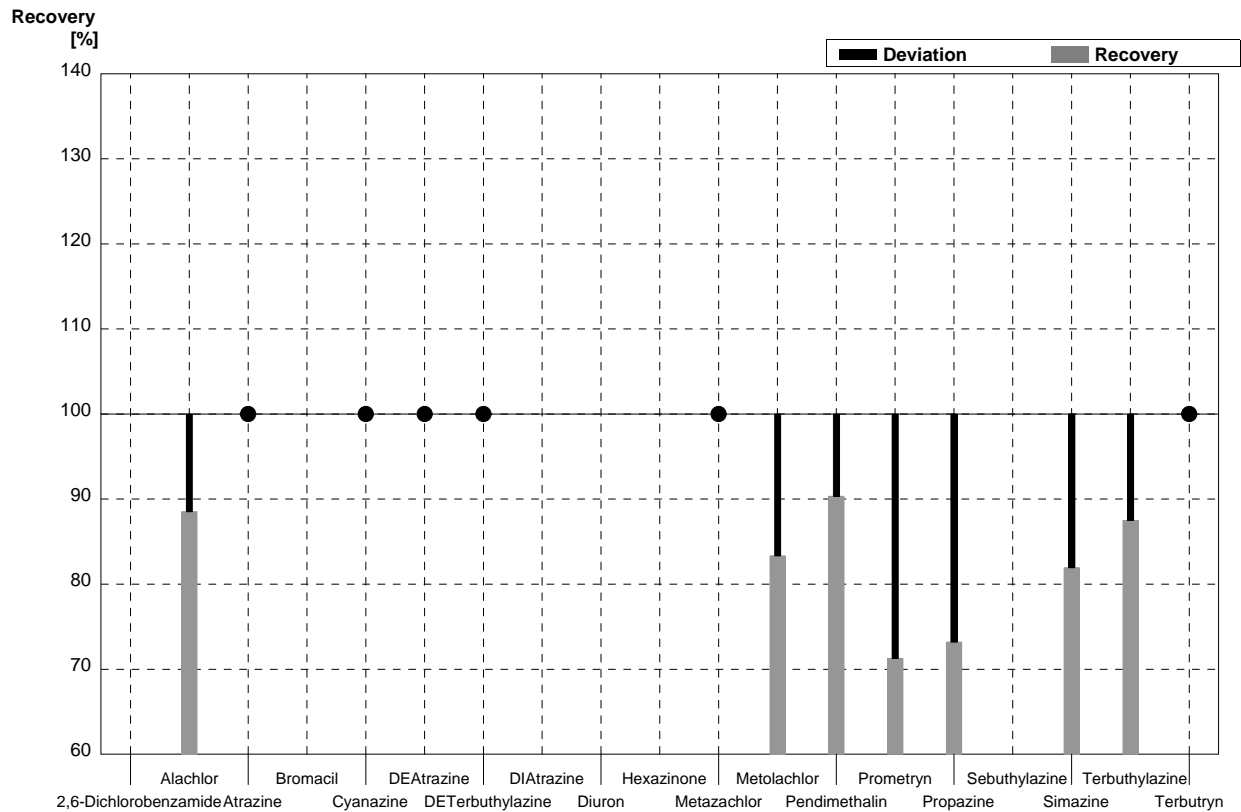
**Sample H84B**  
**Laboratory D**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	<0,05		<0,050		µg/l	•
Alachlor	<0,05		<0,050		µg/l	•
Atrazine	0,146	0,007	0,141	0,0055	µg/l	97%
Bromacil	0,163	0,008			µg/l	
Cyanazine	0,304	0,015	0,313	0,0057	µg/l	103%
DEAtrazine	0,226	0,011	0,214	0,0063	µg/l	95%
DETerbutylazine	0,181	0,009	0,184	0,0068	µg/l	102%
DIAtrazine	0,180	0,009	0,188	0,0043	µg/l	104%
Diuron	0,401	0,020			µg/l	
Hexazinone	0,100	0,005			µg/l	
Metazachlor	0,253	0,013			µg/l	
Metolachlor	0,106	0,005	0,093	0,0066	µg/l	88%
Pendimethalin	0,403	0,020	0,321	0,0207	µg/l	80%
Prometryn	0,152	0,008	0,144	0,0060	µg/l	95%
Propazine	0,082	0,004	0,077	0,0062	µg/l	94%
Sebuthylazine	<0,05		<0,050		µg/l	•
Simazine	0,388	0,019	0,355	0,0052	µg/l	91%
Terbutylazine	<0,05		<0,050		µg/l	•
Terbutryn	0,387	0,019	0,368	0,0070	µg/l	95%



**Sample H84A**  
**Laboratory E**

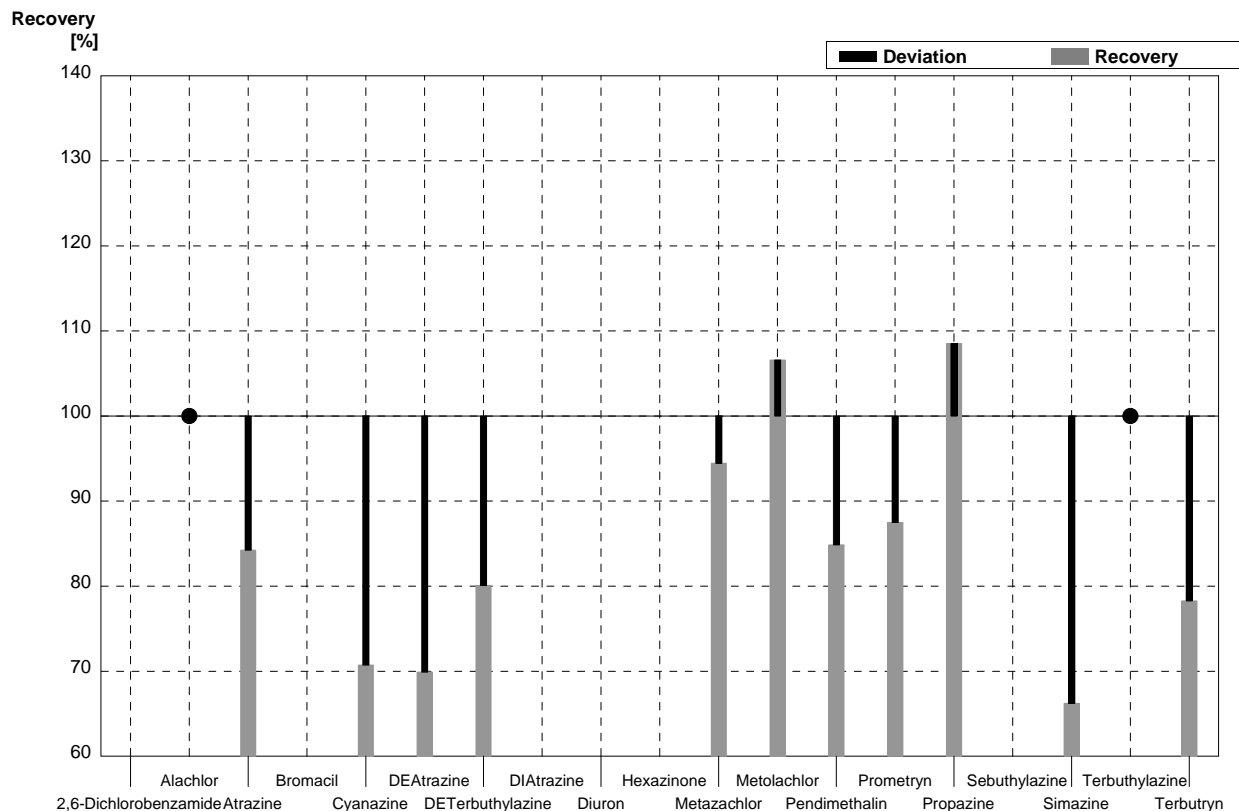
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,162	0,008			µg/l	
Alachlor	0,122	0,006	0,108	0,039	µg/l	89%
Atrazine	<0,05		<0,01		µg/l	•
Bromacil	0,282	0,014			µg/l	
Cyanazine	<0,05		<0,01		µg/l	•
DEAtrazine	<0,05		<0,01		µg/l	•
DETerbutylazine	<0,05		<0,01		µg/l	•
DIAtrazine	0,061	0,003			µg/l	
Diuron	0,104	0,005			µg/l	
Hexazinone	0,250	0,013			µg/l	
Metazachlor	<0,05		<0,01		µg/l	•
Metolachlor	0,372	0,019	0,31	0,11	µg/l	83%
Pendimethalin	0,114	0,006	0,103	0,037	µg/l	90%
Prometryn	0,275	0,014	0,196	0,071	µg/l	71%
Propazine	0,358	0,018	0,262	0,095	µg/l	73%
Sebuthylazine	0,400	0,020			µg/l	
Simazine	0,072	0,004	0,059	0,022	µg/l	82%
Terbutylazine	0,072	0,004	0,063	0,023	µg/l	88%
Terbutryn	<0,05		<0,01		µg/l	•





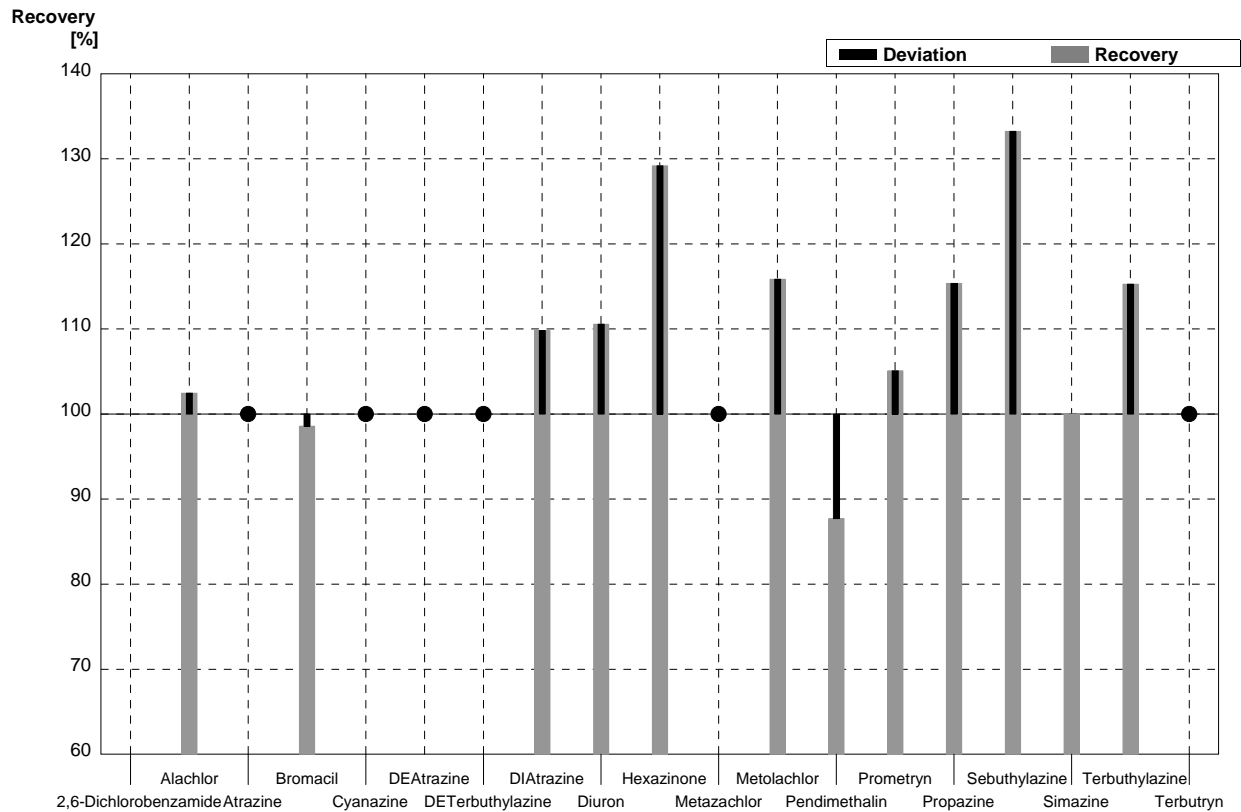
**Sample H84B**  
**Laboratory E**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	<0,05				µg/l	
Alachlor	<0,05		<0,01		µg/l	•
Atrazine	0,146	0,007	0,123	0,045	µg/l	84%
Bromacil	0,163	0,008			µg/l	
Cyanazine	0,304	0,015	0,215	0,078	µg/l	71%
DEAtrazine	0,226	0,011	0,158	0,057	µg/l	70%
DETerbutylazine	0,181	0,009	0,145	0,053	µg/l	80%
DIAtazine	0,180	0,009			µg/l	
Diuron	0,401	0,020			µg/l	
Hexazinone	0,100	0,005			µg/l	
Metazachlor	0,253	0,013	0,239	0,085	µg/l	94%
Metolachlor	0,106	0,005	0,113	0,041	µg/l	107%
Pendimethalin	0,403	0,020	0,342	0,12	µg/l	85%
Prometryn	0,152	0,008	0,133		µg/l	88%
Propazine	0,082	0,004	0,089	0,033	µg/l	109%
Sebuthylazine	<0,05				µg/l	
Simazine	0,388	0,019	0,257	0,093	µg/l	66%
Terbutylazine	<0,05		<0,01		µg/l	•
Terbutryn	0,387	0,019	0,303	0,11	µg/l	78%



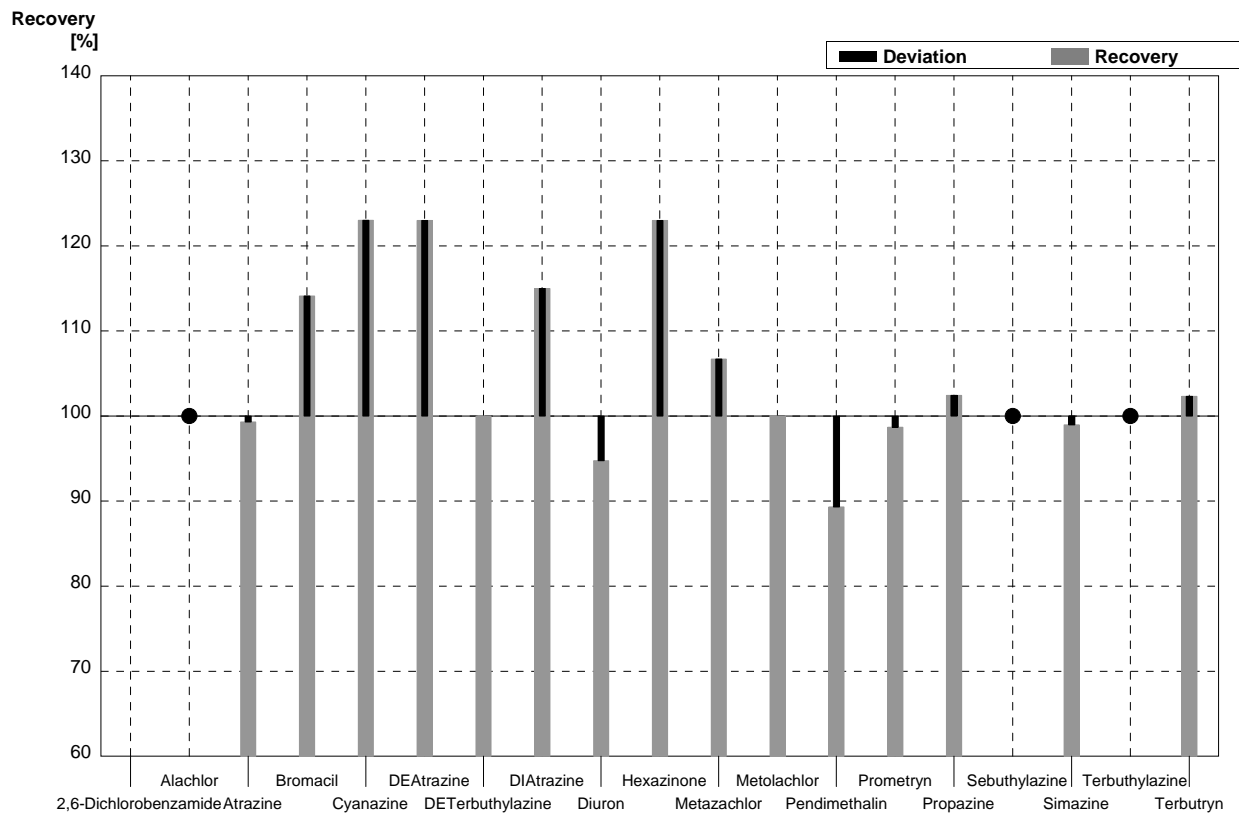
**Sample H84A**  
**Laboratory F**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,162	0,008			µg/l	
Alachlor	0,122	0,006	0,125	0,04	µg/l	102%
Atrazine	<0,05		<0,005	0,002	µg/l	•
Bromacil	0,282	0,014	0,278	0,080	µg/l	99%
Cyanazine	<0,05		<0,005	0,002	µg/l	•
DEAtrazine	<0,05		<0,005	0,002	µg/l	•
DETerbutylazine	<0,05		<0,005	0,002	µg/l	•
DIAtrazine	0,061	0,003	0,067	0,025	µg/l	110%
Diuron	0,104	0,005	0,115	0,025	µg/l	111%
Hexazinone	0,250	0,013	0,323	0,065	µg/l	129%
Metazachlor	<0,05		<0,005	0,002	µg/l	•
Metolachlor	0,372	0,019	0,431	0,100	µg/l	116%
Pendimethalin	0,114	0,006	0,10	0,03	µg/l	88%
Prometryn	0,275	0,014	0,289	0,075	µg/l	105%
Propazine	0,358	0,018	0,413	0,100	µg/l	115%
Sebuthylazine	0,400	0,020	0,533	0,160	µg/l	133%
Simazine	0,072	0,004	0,072	0,020	µg/l	100%
Terbutylazine	0,072	0,004	0,083	0,020	µg/l	115%
Terbutryn	<0,05		<0,005	0,002	µg/l	•



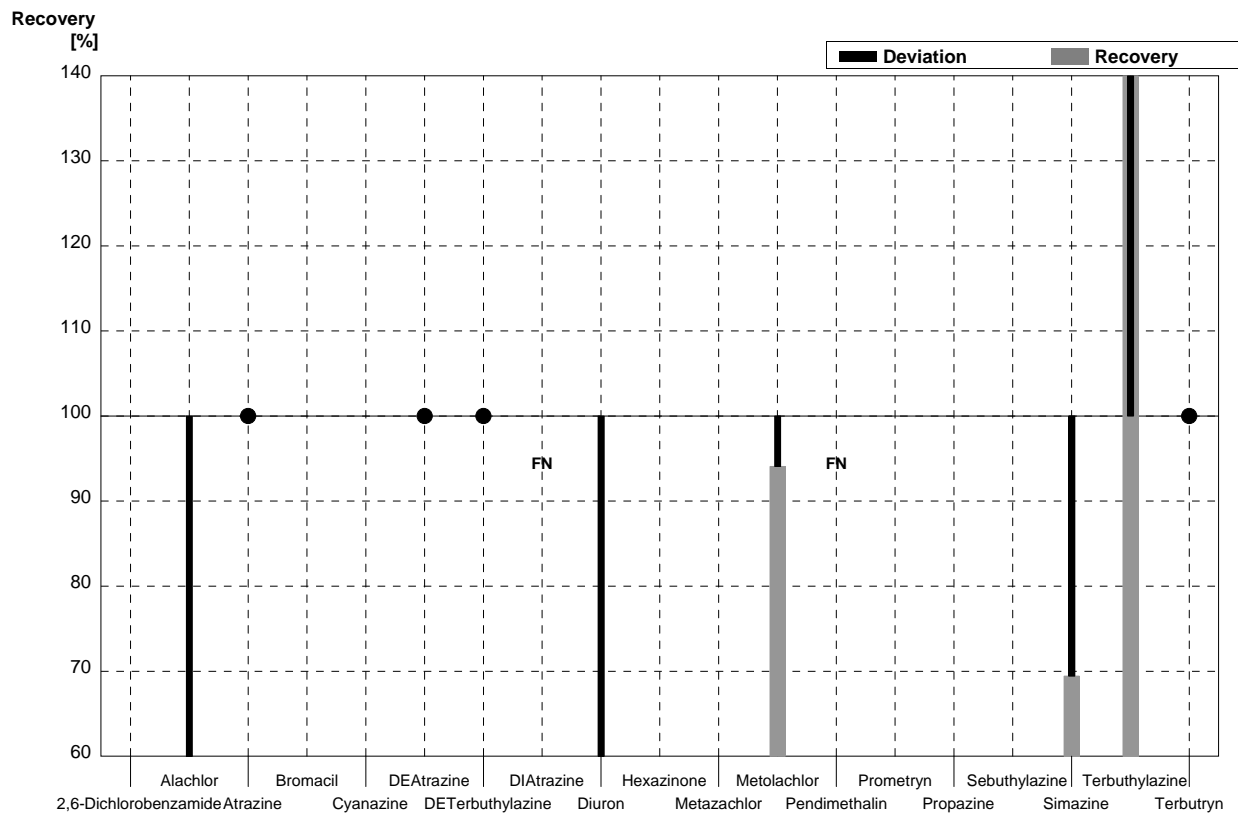
**Sample H84B**  
**Laboratory F**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	<0,05				µg/l	
Alachlor	<0,05		<0,005	0,002	µg/l	•
Atrazine	0,146	0,007	0,145	0,04	µg/l	99%
Bromacil	0,163	0,008	0,186	0,05	µg/l	114%
Cyanazine	0,304	0,015	0,374	0,05	µg/l	123%
DEAtrazine	0,226	0,011	0,278	0,06	µg/l	123%
DETerbutylazine	0,181	0,009	0,181	0,05	µg/l	100%
DIAtrazine	0,180	0,009	0,207	0,025	µg/l	115%
Diuron	0,401	0,020	0,380	0,080	µg/l	95%
Hexazinone	0,100	0,005	0,123	0,025	µg/l	123%
Metazachlor	0,253	0,013	0,270	0,030	µg/l	107%
Metolachlor	0,106	0,005	0,106	0,025	µg/l	100%
Pendimethalin	0,403	0,020	0,36	0,10	µg/l	89%
Prometryn	0,152	0,008	0,150	0,04	µg/l	99%
Propazine	0,082	0,004	0,084	0,025	µg/l	102%
Sebuthylazine	<0,05		<0,005	0,002	µg/l	•
Simazine	0,388	0,019	0,384	0,100	µg/l	99%
Terbutylazine	<0,05		<0,005	0,002	µg/l	•
Terbutryn	0,387	0,019	0,396	0,100	µg/l	102%



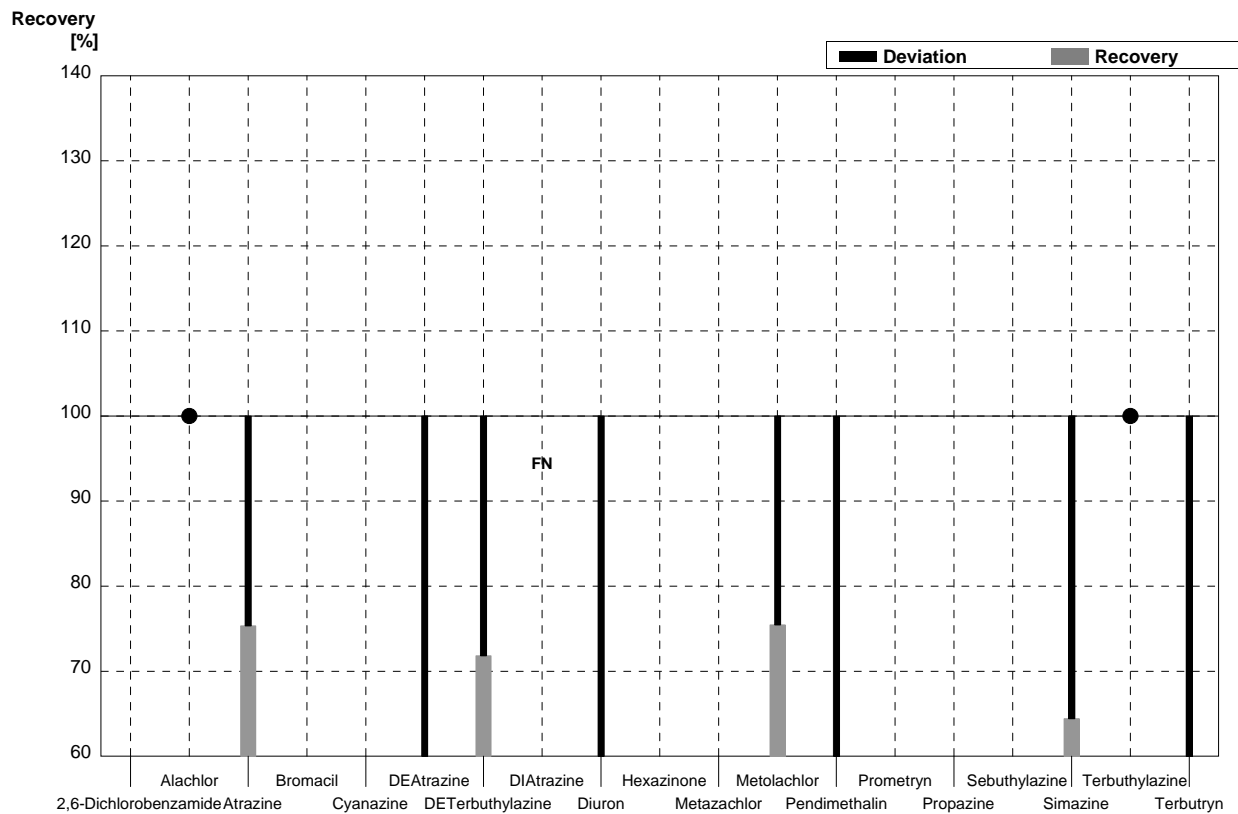
**Sample H84A**  
**Laboratory G**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,162	0,008			µg/l	
Alachlor	0,122	0,006	0,06	0,02	µg/l	49%
Atrazine	<0,05		<0,01		µg/l	•
Bromacil	0,282	0,014			µg/l	
Cyanazine	<0,05				µg/l	
DEAtrazine	<0,05		<0,02		µg/l	•
DETerbutylazine	<0,05		<0,02		µg/l	•
DIAtrazine	0,061	0,003	<0,02		µg/l	FN
Diuron	0,104	0,005	0,04	0,02	µg/l	38%
Hexazinone	0,250	0,013			µg/l	
Metazachlor	<0,05				µg/l	
Metolachlor	0,372	0,019	0,35	0,07	µg/l	94%
Pendimethalin	0,114	0,006	<0,02		µg/l	FN
Prometryn	0,275	0,014			µg/l	
Propazine	0,358	0,018			µg/l	
Sebuthylazine	0,400	0,020			µg/l	
Simazine	0,072	0,004	0,05	0,02	µg/l	69%
Terbutylazine	0,072	0,004	0,28	0,06	µg/l	389%
Terbutryn	<0,05		<0,01		µg/l	•



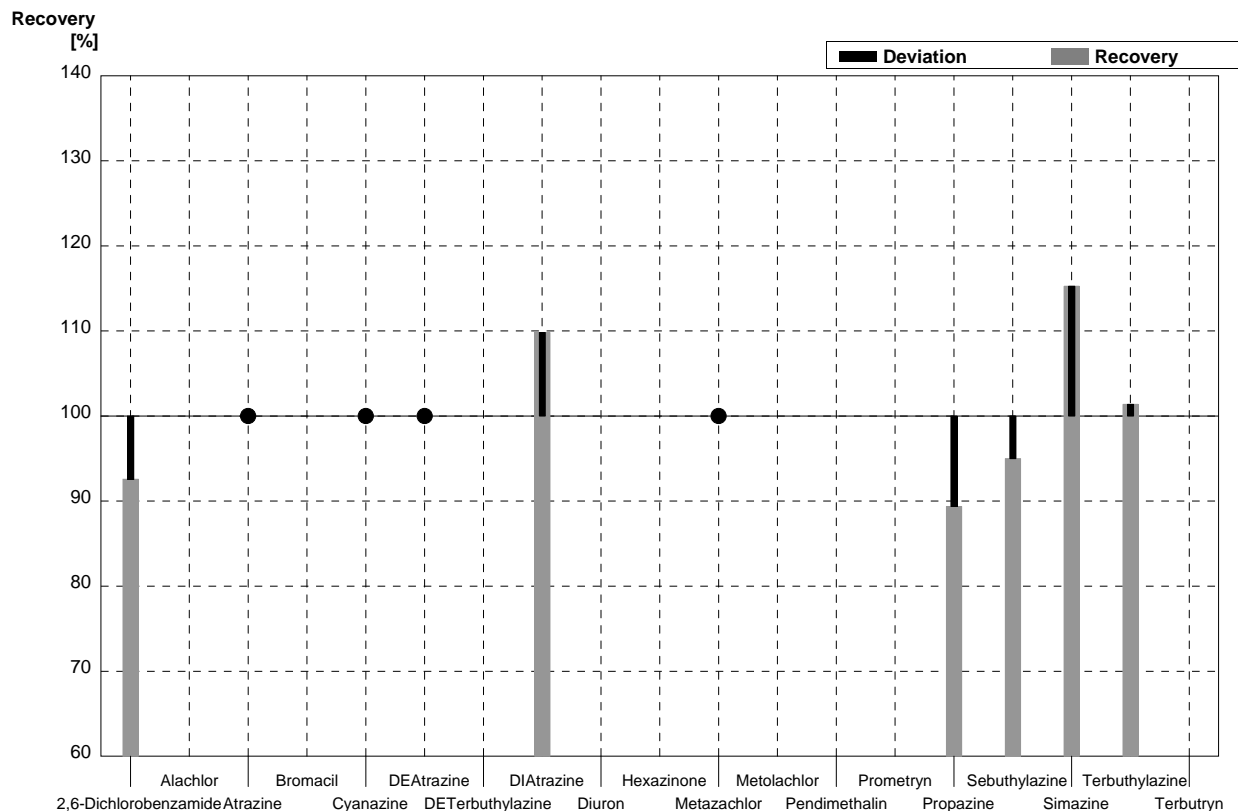
**Sample H84B**  
**Laboratory G**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	<0,05				µg/l	
Alachlor	<0,05		<0,02		µg/l	•
Atrazine	0,146	0,007	0,11	0,02	µg/l	75%
Bromacil	0,163	0,008			µg/l	
Cyanazine	0,304	0,015			µg/l	
DEAtrazine	0,226	0,011	0,07	0,03	µg/l	31%
DETerbutylazine	0,181	0,009	0,13	0,03	µg/l	72%
DIAtrazine	0,180	0,009	<0,02		µg/l	FN
Diuron	0,401	0,020	0,24	0,05	µg/l	60%
Hexazinone	0,100	0,005			µg/l	
Metazachlor	0,253	0,013			µg/l	
Metolachlor	0,106	0,005	0,08	0,03	µg/l	75%
Pendimethalin	0,403	0,020	0,07	0,03	µg/l	17%
Prometryn	0,152	0,008			µg/l	
Propazine	0,082	0,004			µg/l	
Sebuthylazine	<0,05				µg/l	
Simazine	0,388	0,019	0,25	0,06	µg/l	64%
Terbutylazine	<0,05		<0,01		µg/l	•
Terbutryn	0,387	0,019	0,18	0,04	µg/l	47%



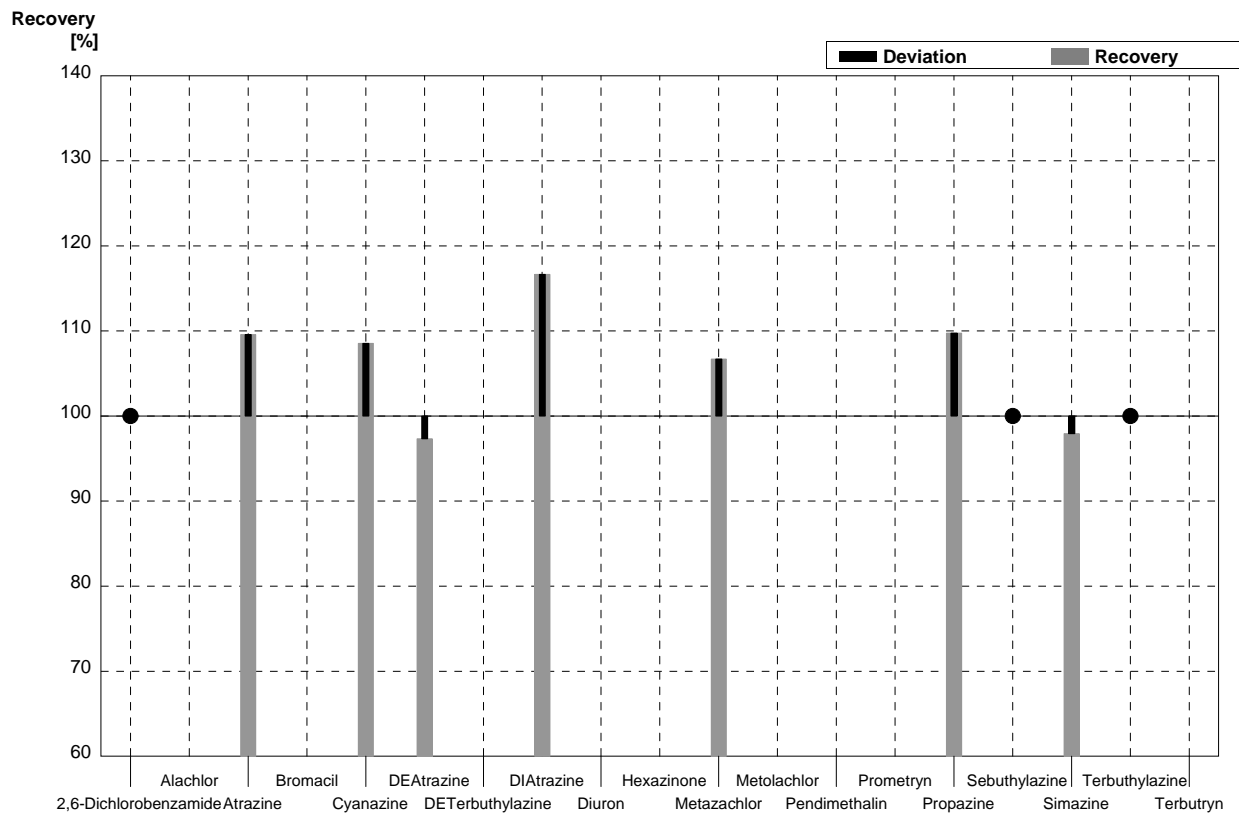
**Sample H84A**  
**Laboratory H**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,162	0,008	0,15	0,03	µg/l	93%
Alachlor	0,122	0,006			µg/l	
Atrazine	<0,05		<0,05		µg/l	•
Bromacil	0,282	0,014			µg/l	
Cyanazine	<0,05		<0,05		µg/l	•
DEAtrazine	<0,05		<0,05		µg/l	•
DETerbutylazine	<0,05				µg/l	
DIAtazine	0,061	0,003	0,067	0,013	µg/l	110%
Diuron	0,104	0,005			µg/l	
Hexazinone	0,250	0,013			µg/l	
Metazachlor	<0,05		<0,05		µg/l	•
Metolachlor	0,372	0,019			µg/l	
Pendimethalin	0,114	0,006			µg/l	
Prometryn	0,275	0,014			µg/l	
Propazine	0,358	0,018	0,32	0,064	µg/l	89%
Sebutylazine	0,400	0,020	0,38	0,076	µg/l	95%
Simazine	0,072	0,004	0,083	0,017	µg/l	115%
Terbutylazine	0,072	0,004	0,073	0,015	µg/l	101%
Terbutryn	<0,05				µg/l	



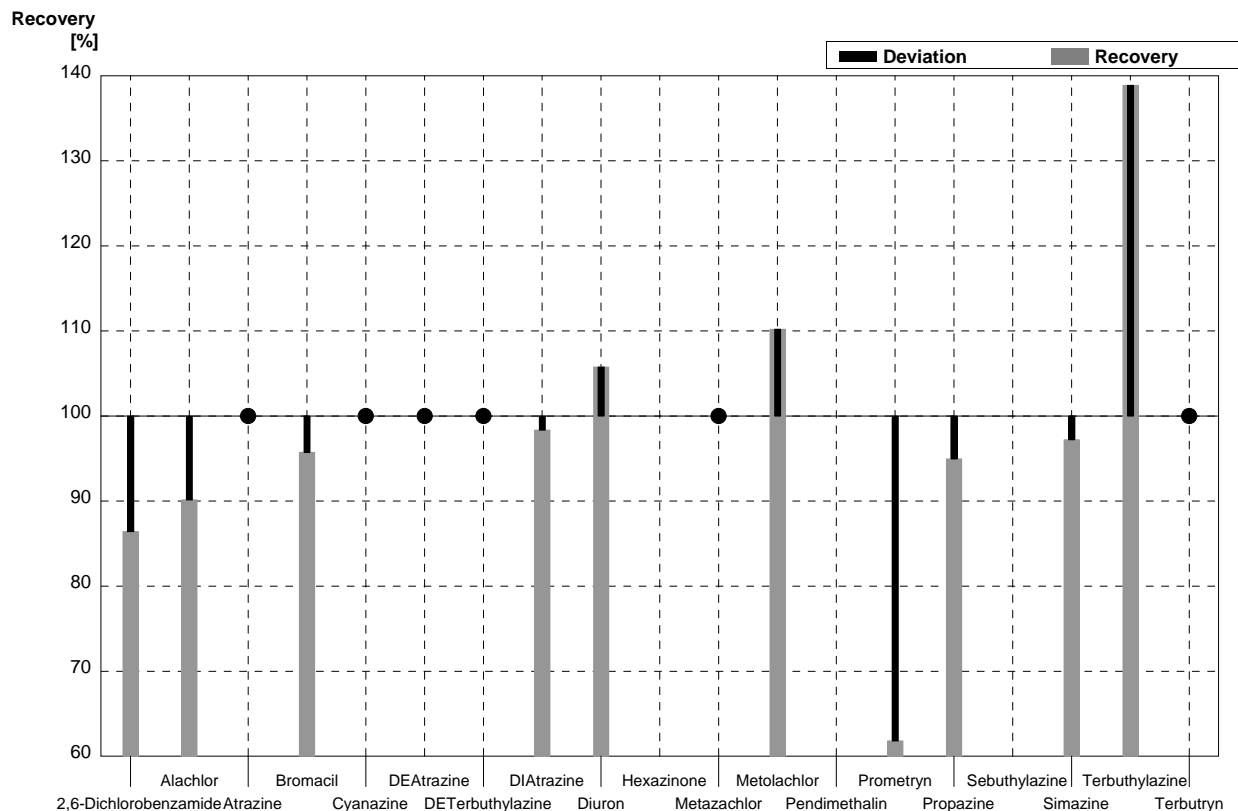
**Sample H84B**  
**Laboratory H**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery														
2,6-Dichlorobenzamide	<0,05		<0,05		µg/l	•														
Alachlor	<0,05				µg/l															
Atrazine	0,146	0,007	0,16	0,032	µg/l	110%														
Bromacil	0,163	0,008			µg/l															
Cyanazine	0,304	0,015	0,33	0,066	µg/l	109%														
DEAtrazine	0,226	0,011	0,22	0,044	µg/l	97%														
DETerbutylazine	0,181	0,009			µg/l															
DIAtazine	0,180	0,009	0,21	0,042	µg/l	117%														
Diuron	0,401	0,020			µg/l															
Hexazinone	0,100	0,005			µg/l															
Metazachlor	0,253	0,013	0,27	0,054	µg/l	107%														
Metolachlor	0,106	0,005			µg/l															
Pendimethalin	0,403	0,020			µg/l															
Prometryn	0,152	0,008			µg/l															
Propazine	0,082	0,004	0,09	0,018	µg/l	110%														
Sebuthylazine	<0,05		<0,05		µg/l	•														
Simazine	0,388	0,019	0,38	0,076	µg/l	98%	Terbutylazine	<0,05		<0,05		µg/l	•	Terbutryn	0,387	0,019			µg/l	
Terbutylazine	<0,05		<0,05		µg/l	•														
Terbutryn	0,387	0,019			µg/l															



**Sample H84A**  
**Laboratory I**

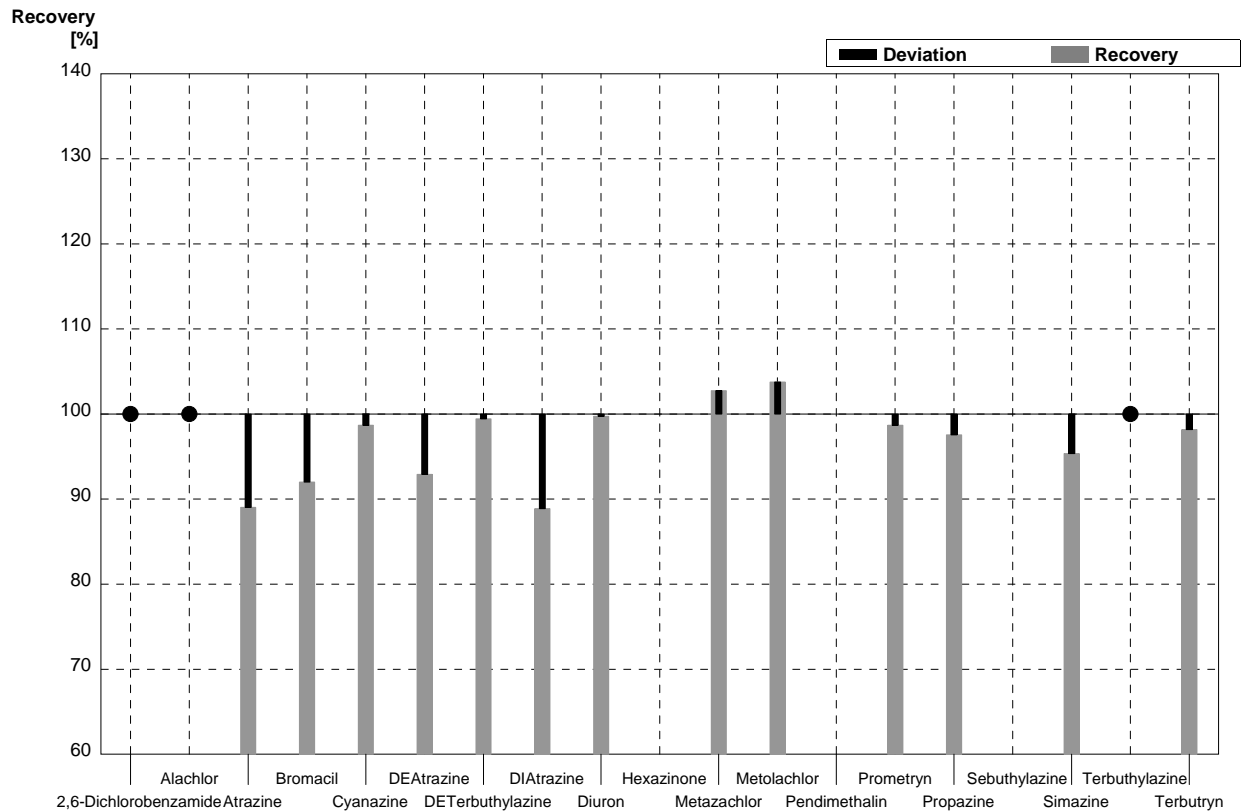
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,162	0,008	0,14	0,03	µg/l	86%
Alachlor	0,122	0,006	0,11	0,02	µg/l	90%
Atrazine	<0,05		<0,02		µg/l	•
Bromacil	0,282	0,014	0,27	0,05	µg/l	96%
Cyanazine	<0,05		<0,02		µg/l	•
DEAtrazine	<0,05		<0,02		µg/l	•
DETerbutylazine	<0,05		<0,02		µg/l	•
DIAtrazine	0,061	0,003	0,06	0,01	µg/l	98%
Diuron	0,104	0,005	0,11	0,02	µg/l	106%
Hexazinone	0,250	0,013			µg/l	
Metazachlor	<0,05		<0,02		µg/l	•
Metolachlor	0,372	0,019	0,41	0,08	µg/l	110%
Pendimethalin	0,114	0,006			µg/l	
Prometryn	0,275	0,014	0,17	0,03	µg/l	62%
Propazine	0,358	0,018	0,34	0,07	µg/l	95%
Sebuthylazine	0,400	0,020			µg/l	
Simazine	0,072	0,004	0,07	0,01	µg/l	97%
Terbutylazine	0,072	0,004	0,10	0,02	µg/l	139%
Terbutryn	<0,05		<0,02		µg/l	•





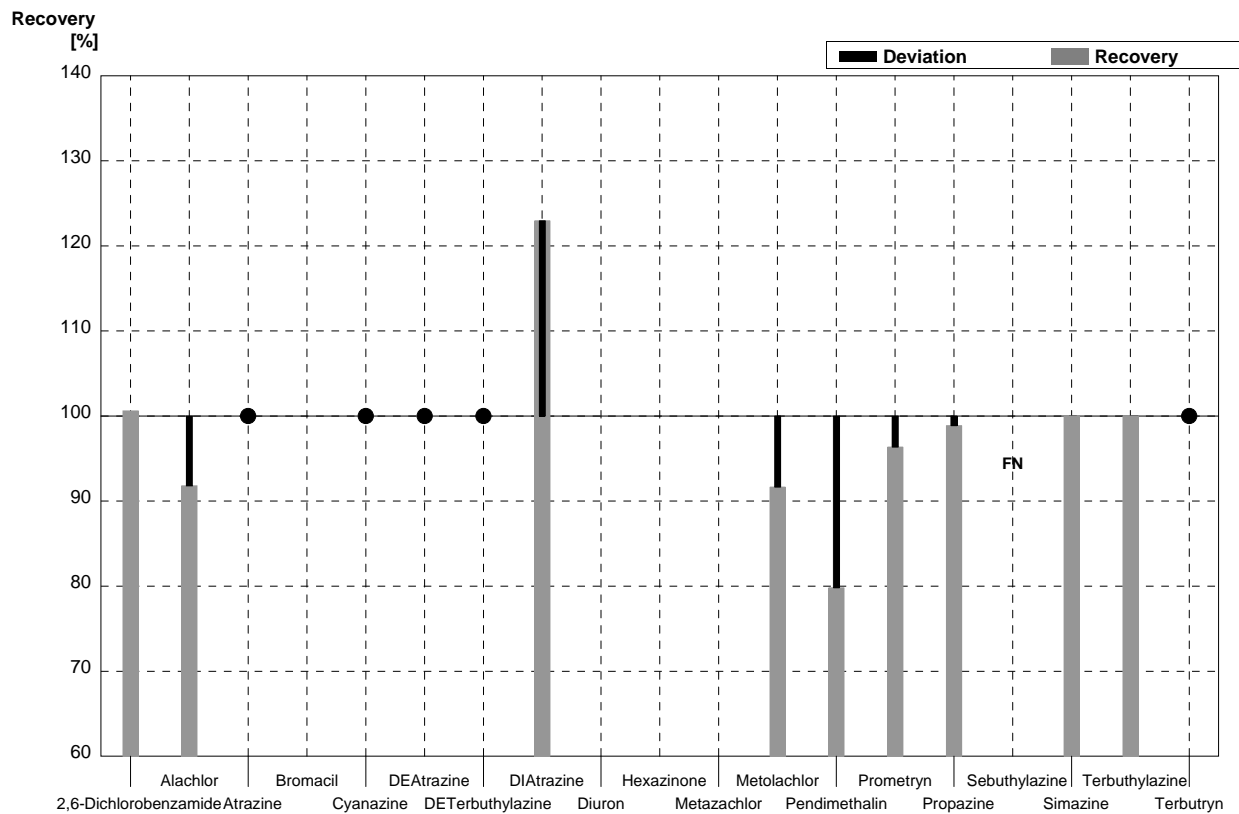
**Sample H84B**  
**Laboratory I**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	<0,05		<0,02		µg/l	•
Alachlor	<0,05		<0,02		µg/l	•
Atrazine	0,146	0,007	0,13	0,03	µg/l	89%
Bromacil	0,163	0,008	0,15	0,03	µg/l	92%
Cyanazine	0,304	0,015	0,30	0,06	µg/l	99%
DEAtrazine	0,226	0,011	0,21	0,04	µg/l	93%
DETerbutylazine	0,181	0,009	0,18	0,04	µg/l	99%
DIAtrazine	0,180	0,009	0,16	0,03	µg/l	89%
Diuron	0,401	0,020	0,40	0,08	µg/l	100%
Hexazinone	0,100	0,005			µg/l	
Metazachlor	0,253	0,013	0,26	0,05	µg/l	103%
Metolachlor	0,106	0,005	0,11	0,02	µg/l	104%
Pendimethalin	0,403	0,020			µg/l	
Prometryn	0,152	0,008	0,15	0,03	µg/l	99%
Propazine	0,082	0,004	0,08	0,02	µg/l	98%
Sebuthylazine	<0,05				µg/l	
Simazine	0,388	0,019	0,37	0,07	µg/l	95%
Terbutylazine	<0,05		<0,02		µg/l	•
Terbutryn	0,387	0,019	0,38	0,08	µg/l	98%



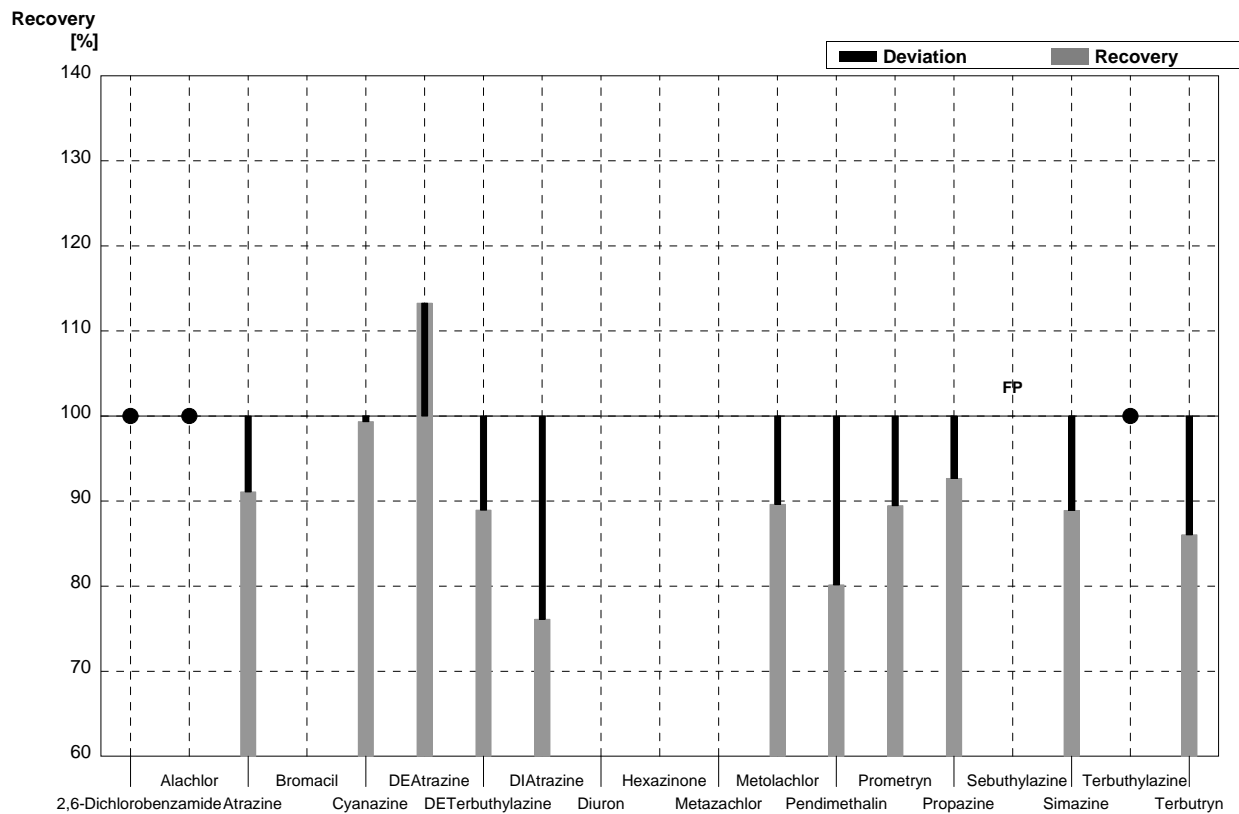
**Sample H84A**  
**Laboratory J**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,162	0,008	0,163	0,064	µg/l	101%
Alachlor	0,122	0,006	0,112	0,040	µg/l	92%
Atrazine	<0,05		<0,05		µg/l	•
Bromacil	0,282	0,014	n.a.		µg/l	
Cyanazine	<0,05		<0,05		µg/l	•
DEAtrazine	<0,05		<0,05		µg/l	•
DETerbutylazine	<0,05		<0,05		µg/l	•
DIAtrazine	0,061	0,003	0,075	0,029	µg/l	123%
Diuron	0,104	0,005	n.a.		µg/l	
Hexazinone	0,250	0,013	n.a.		µg/l	
Metazachlor	<0,05		n.a.		µg/l	
Metolachlor	0,372	0,019	0,341	0,109	µg/l	92%
Pendimethalin	0,114	0,006	0,091	0,021	µg/l	80%
Prometryn	0,275	0,014	0,265	0,080	µg/l	96%
Propazine	0,358	0,018	0,354	0,117	µg/l	99%
Sebuthylazine	0,400	0,020	<0,05		µg/l	FN
Simazine	0,072	0,004	0,072	0,035	µg/l	100%
Terbutylazine	0,072	0,004	0,072	0,018	µg/l	100%
Terbutryn	<0,05		<0,05		µg/l	•



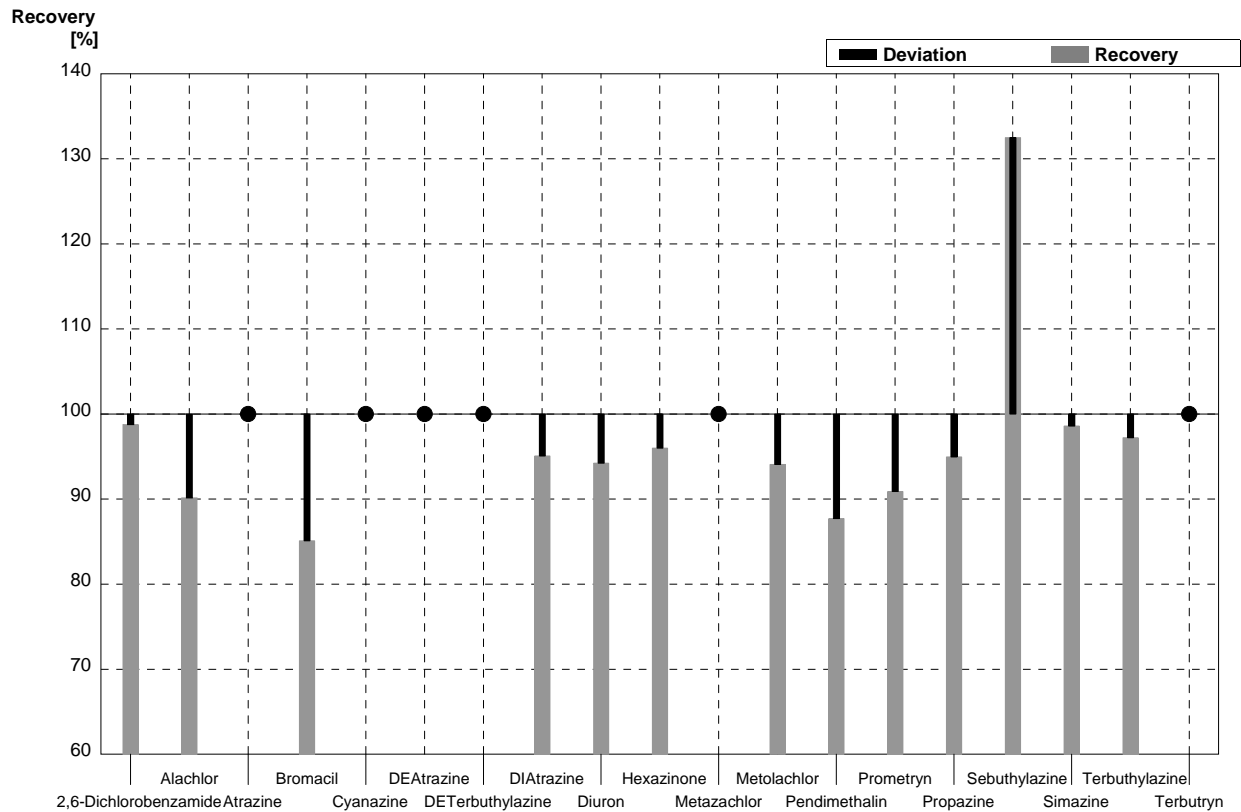
**Sample H84B**  
**Laboratory J**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	<0,05		<0,05		µg/l	•
Alachlor	<0,05		<0,05		µg/l	•
Atrazine	0,146	0,007	0,133	0,043	µg/l	91%
Bromacil	0,163	0,008	n.a.		µg/l	
Cyanazine	0,304	0,015	0,302	0,145	µg/l	99%
DEAtrazine	0,226	0,011	0,256	0,074	µg/l	113%
DETerbutylazine	0,181	0,009	0,161	0,058	µg/l	89%
DIAtrazine	0,180	0,009	0,137	0,052	µg/l	76%
Diuron	0,401	0,020	n.a.		µg/l	
Hexazinone	0,100	0,005	n.a.		µg/l	
Metazachlor	0,253	0,013	n.a.		µg/l	
Metolachlor	0,106	0,005	0,095	0,030	µg/l	90%
Pendimethalin	0,403	0,020	0,323	0,074	µg/l	80%
Prometryn	0,152	0,008	0,136	0,041	µg/l	89%
Propazine	0,082	0,004	0,076	0,025	µg/l	93%
Sebuthylazine	<0,05		0,381	0,148	µg/l	FP
Simazine	0,388	0,019	0,345	0,169	µg/l	89%
Terbutylazine	<0,05		<0,05		µg/l	•
Terbutryn	0,387	0,019	0,333	0,087	µg/l	86%



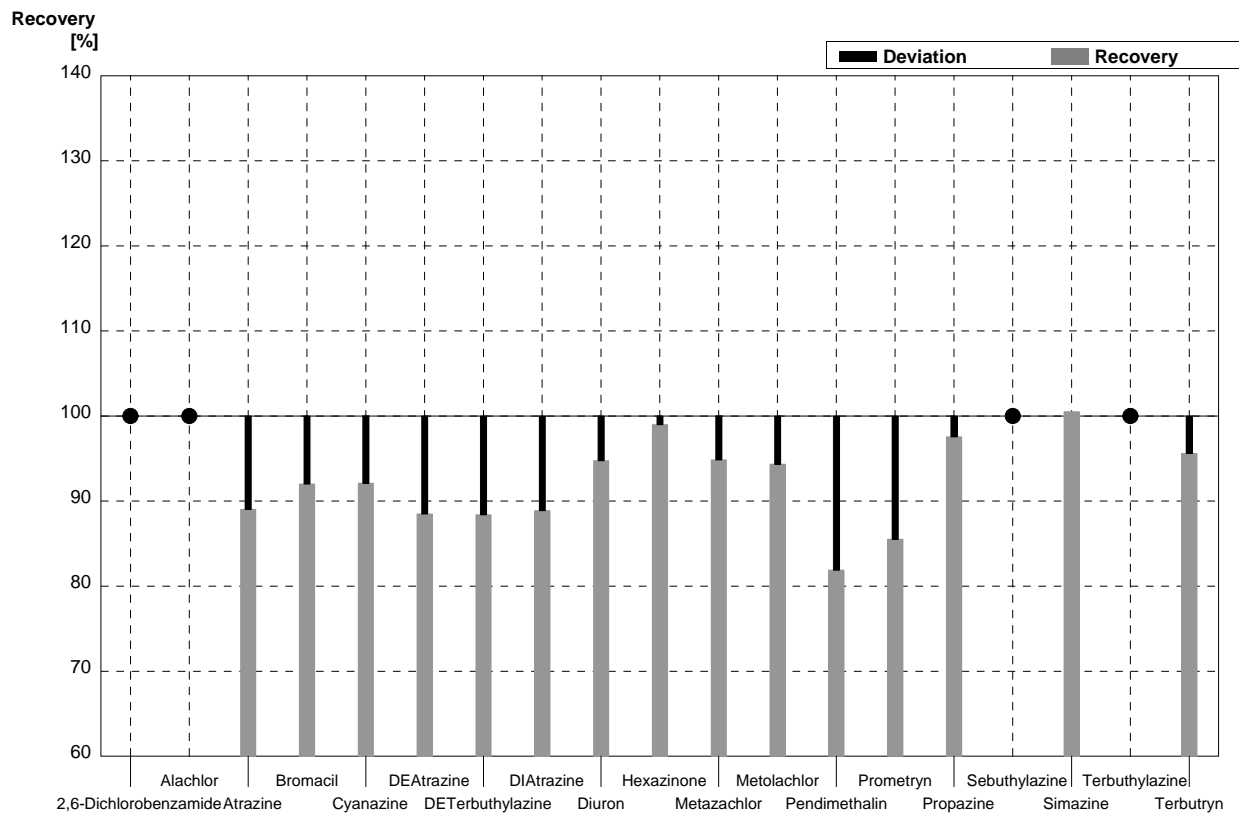
**Sample H84A**  
**Laboratory K**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,162	0,008	0,16	0,03	µg/l	99%
Alachlor	0,122	0,006	0,11	0,03	µg/l	90%
Atrazine	<0,05		<0,003		µg/l	•
Bromacil	0,282	0,014	0,24	0,06	µg/l	85%
Cyanazine	<0,05		<0,003		µg/l	•
DEAtrazine	<0,05		<0,001		µg/l	•
DETerbutylazine	<0,05		<0,005		µg/l	•
DIAtrazine	0,061	0,003	0,058	0,033	µg/l	95%
Diuron	0,104	0,005	0,098	0,018	µg/l	94%
Hexazinone	0,250	0,013	0,24	0,05	µg/l	96%
Metazachlor	<0,05		<0,002		µg/l	•
Metolachlor	0,372	0,019	0,35	0,08	µg/l	94%
Pendimethalin	0,114	0,006	0,10	0,03	µg/l	88%
Prometryn	0,275	0,014	0,25	0,06	µg/l	91%
Propazine	0,358	0,018	0,34	0,07	µg/l	95%
Sebuthylazine	0,400	0,020	0,53	0,11	µg/l	133%
Simazine	0,072	0,004	0,071	0,016	µg/l	99%
Terbutylazine	0,072	0,004	0,070	0,016	µg/l	97%
Terbutryn	<0,05		<0,004		µg/l	•



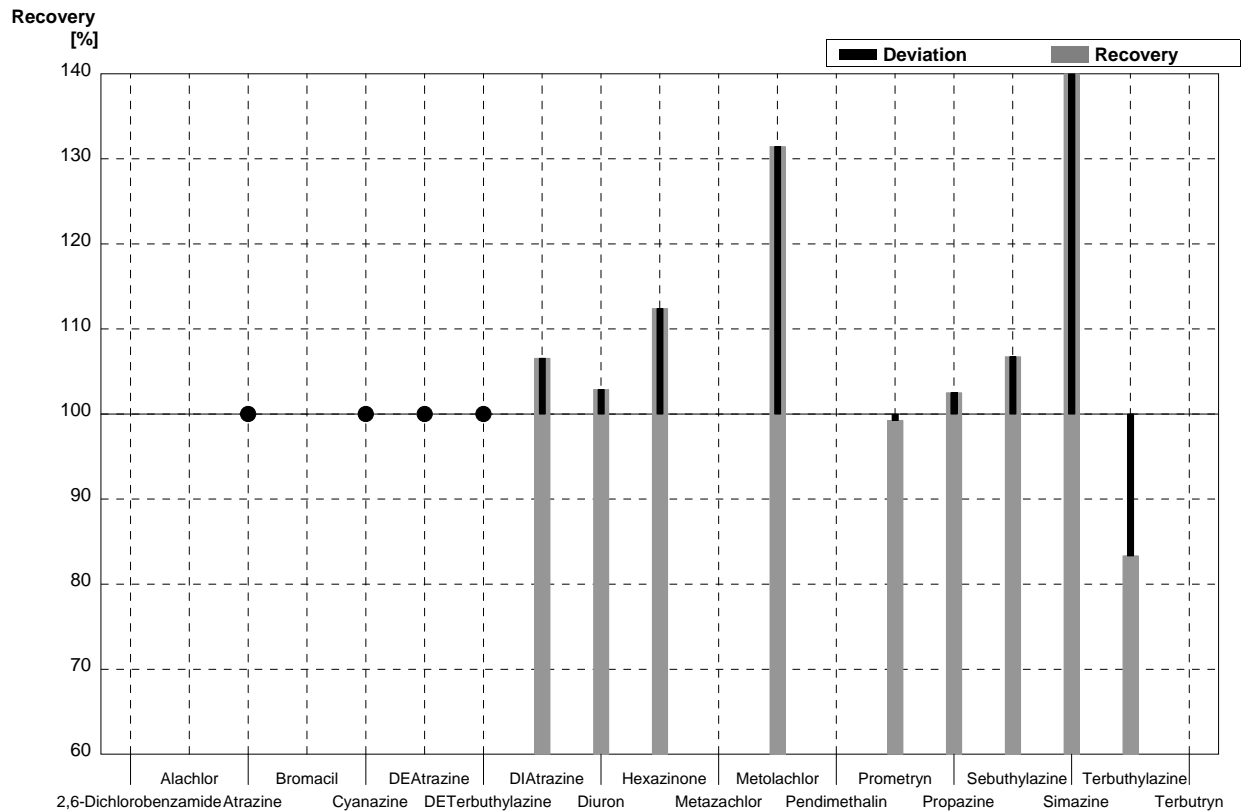
**Sample H84B**  
**Laboratory K**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	<0,05		0,03		µg/l	•
Alachlor	<0,05		<0,002		µg/l	•
Atrazine	0,146	0,007	0,13	0,02	µg/l	89%
Bromacil	0,163	0,008	0,15	0,03	µg/l	92%
Cyanazine	0,304	0,015	0,28	0,06	µg/l	92%
DEAtrazine	0,226	0,011	0,20	0,03	µg/l	88%
DETerbutylazine	0,181	0,009	0,16	0,02	µg/l	88%
DIAtrazine	0,180	0,009	0,16	0,09	µg/l	89%
Diuron	0,401	0,020	0,38	0,07	µg/l	95%
Hexazinone	0,100	0,005	0,099	0,021	µg/l	99%
Metazachlor	0,253	0,013	0,24	0,05	µg/l	95%
Metolachlor	0,106	0,005	0,10	0,02	µg/l	94%
Pendimethalin	0,403	0,020	0,33	0,10	µg/l	82%
Prometryn	0,152	0,008	0,13	0,03	µg/l	86%
Propazine	0,082	0,004	0,080	0,017	µg/l	98%
Sebuthylazine	<0,05		<0,003		µg/l	•
Simazine	0,388	0,019	0,39	0,09	µg/l	101%
Terbutylazine	<0,05		<0,004		µg/l	•
Terbutryn	0,387	0,019	0,37	0,08	µg/l	96%



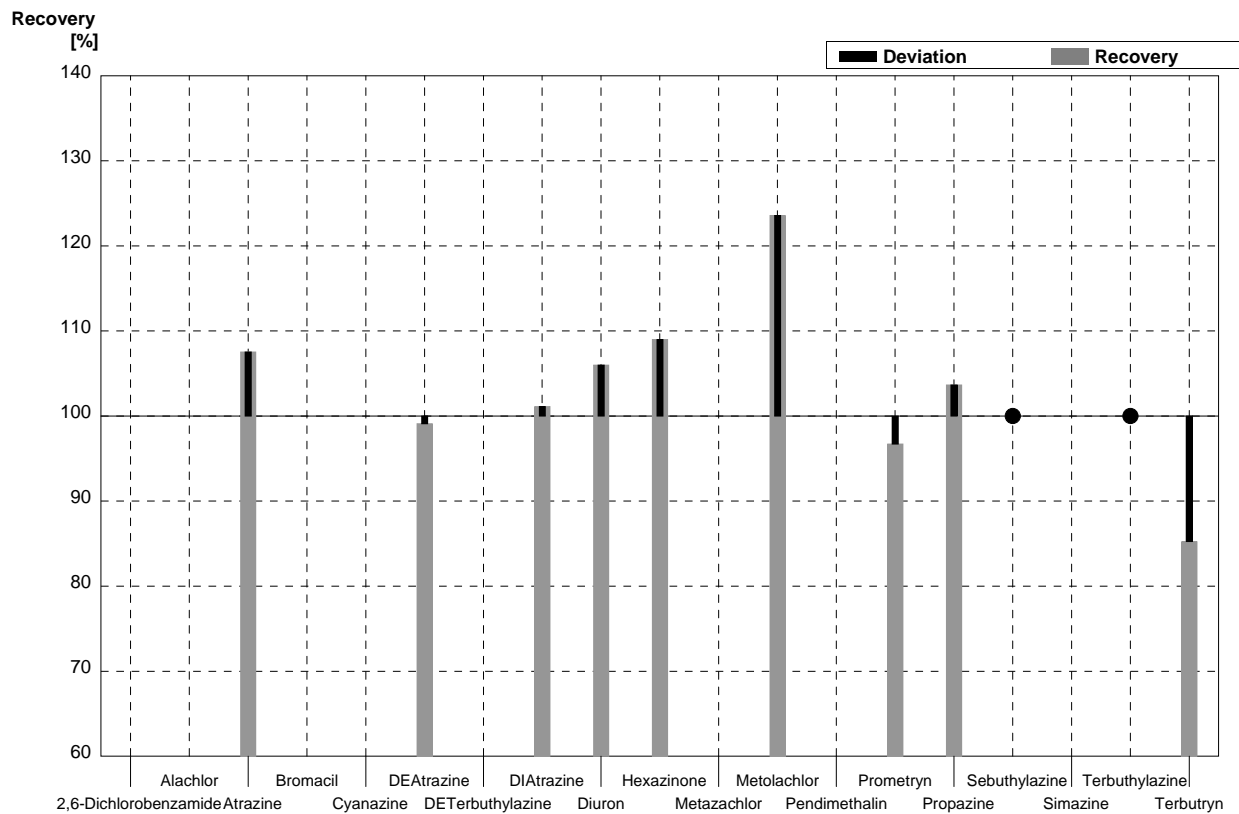
**Sample H84A**  
**Laboratory L**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,162	0,008			µg/l	
Alachlor	0,122	0,006			µg/l	
Atrazine	<0,05		<0,01		µg/l	•
Bromacil	0,282	0,014			µg/l	
Cyanazine	<0,05		<0,01		µg/l	•
DEAtrazine	<0,05		<0,01		µg/l	•
DETerbutylazine	<0,05		<0,01		µg/l	•
DIAtiazine	0,061	0,003	0,065	0,010	µg/l	107%
Diuron	0,104	0,005	0,107	0,010	µg/l	103%
Hexazinone	0,250	0,013	0,281	0,014	µg/l	112%
Metazachlor	<0,05				µg/l	
Metolachlor	0,372	0,019	0,489	0,115	µg/l	131%
Pendimethalin	0,114	0,006			µg/l	
Prometryn	0,275	0,014	0,273	0,066	µg/l	99%
Propazine	0,358	0,018	0,367	0,086	µg/l	103%
Sebutylazine	0,400	0,020	0,427	0,080	µg/l	107%
Simazine	0,072	0,004	0,477	0,089	µg/l	663%
Terbutylazine	0,072	0,004	0,060	0,018	µg/l	83%
Terbutryn	<0,05				µg/l	



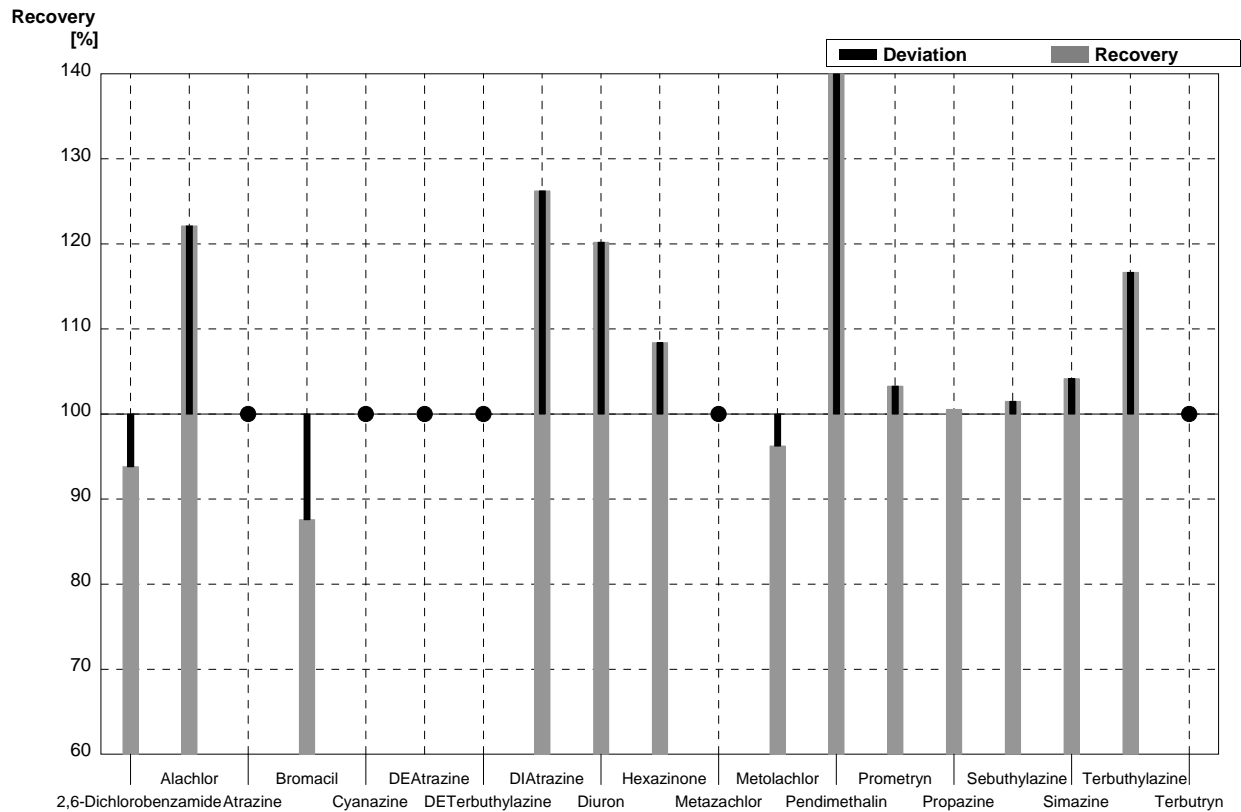
**Sample H84B**  
**Laboratory L**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	<0,05				µg/l	
Alachlor	<0,05				µg/l	
Atrazine	0,146	0,007	0,157	0,026	µg/l	108%
Bromacil	0,163	0,008			µg/l	
Cyanazine	0,304	0,015			µg/l	
DEAtrazine	0,226	0,011	0,224	0,043	µg/l	99%
DETerbutylazine	0,181	0,009			µg/l	
DIAtrazine	0,180	0,009	0,182	0,030	µg/l	101%
Diuron	0,401	0,020	0,425	0,025	µg/l	106%
Hexazinone	0,100	0,005	0,109	0,010	µg/l	109%
Metazachlor	0,253	0,013			µg/l	
Metolachlor	0,106	0,005	0,131	0,003	µg/l	124%
Pendimethalin	0,403	0,020			µg/l	
Prometryn	0,152	0,008	0,147	0,040	µg/l	97%
Propazine	0,082	0,004	0,085	0,015	µg/l	104%
Sebuthylazine	<0,05		<0,01		µg/l	•
Simazine	0,388	0,019			µg/l	
Terbutylazine	<0,05		<0,01		µg/l	•
Terbutryn	0,387	0,019	0,330	0,051	µg/l	85%



**Sample H84A**  
**Laboratory M**

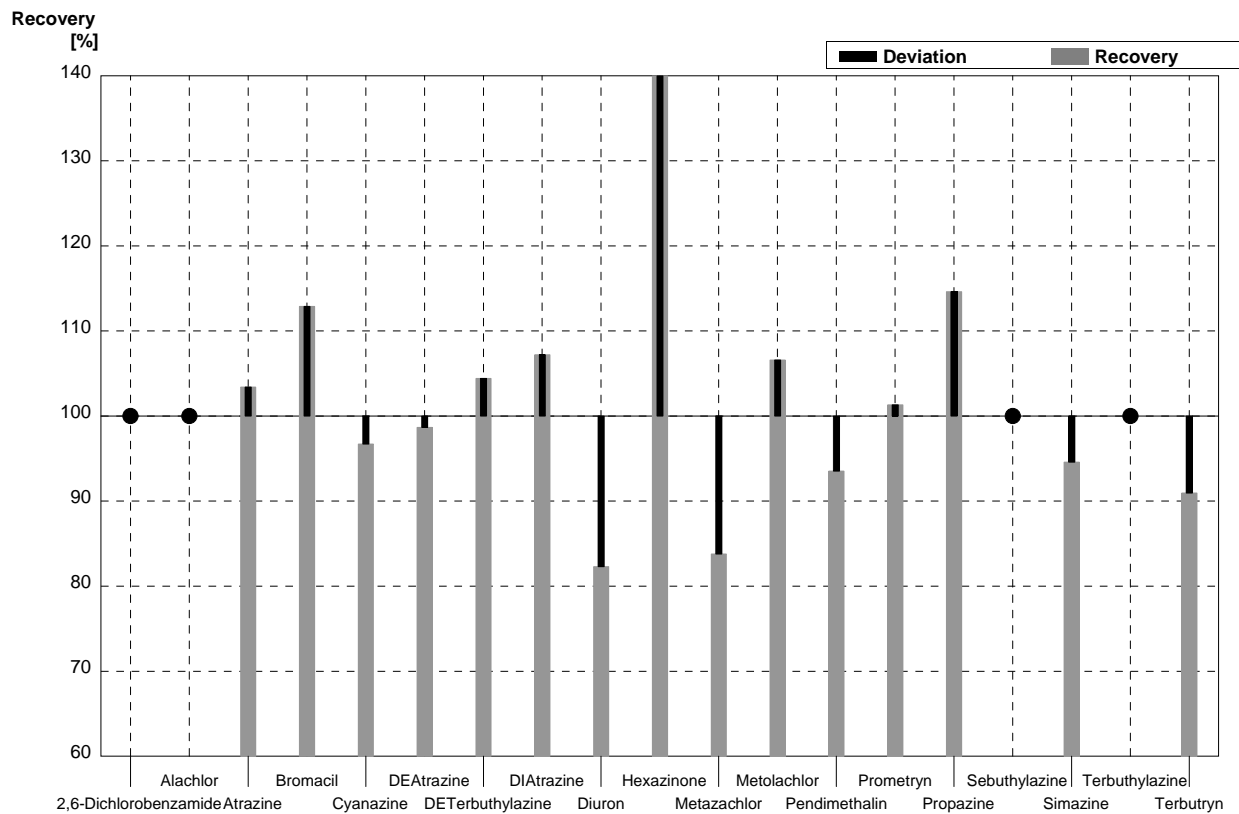
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,162	0,008	0,152	0,015	µg/l	94%
Alachlor	0,122	0,006	0,149	0,015	µg/l	122%
Atrazine	<0,05		<0,05		µg/l	•
Bromacil	0,282	0,014	0,247	0,030	µg/l	88%
Cyanazine	<0,05		<0,05		µg/l	•
DEAtrazine	<0,05		<0,05		µg/l	•
DETerbutylazine	<0,05		<0,05		µg/l	•
DIAtiazine	0,061	0,003	0,077	0,010	µg/l	126%
Diuron	0,104	0,005	0,125	0,015	µg/l	120%
Hexazinone	0,250	0,013	0,271	0,030	µg/l	108%
Metazachlor	<0,05		<0,050		µg/l	•
Metolachlor	0,372	0,019	0,358	0,040	µg/l	96%
Pendimethalin	0,114	0,006	0,208	0,030	µg/l	182%
Prometryn	0,275	0,014	0,284	0,030	µg/l	103%
Propazine	0,358	0,018	0,360	0,040	µg/l	101%
Sebuthylazine	0,400	0,020	0,406	0,050	µg/l	102%
Simazine	0,072	0,004	0,075	0,010	µg/l	104%
Terbutylazine	0,072	0,004	0,084	0,010	µg/l	117%
Terbutryn	<0,05		<0,05		µg/l	•





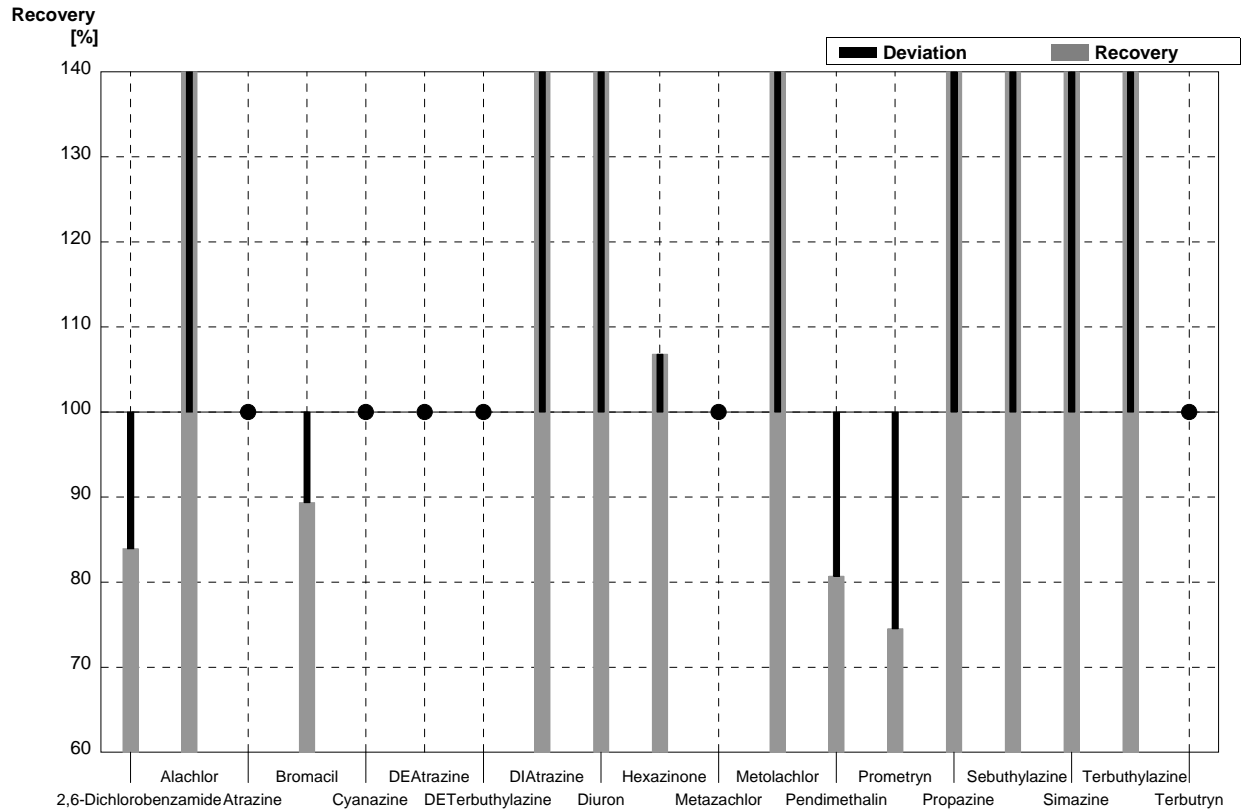
**Sample H84B**  
**Laboratory M**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	<0,05		<0,05		µg/l	•
Alachlor	<0,05		<0,05		µg/l	•
Atrazine	0,146	0,007	0,151	0,015	µg/l	103%
Bromacil	0,163	0,008	0,184	0,020	µg/l	113%
Cyanazine	0,304	0,015	0,294	0,035	µg/l	97%
DEAtrazine	0,226	0,011	0,223	0,025	µg/l	99%
DETerbutylazine	0,181	0,009	0,189	0,020	µg/l	104%
DIAtrazine	0,180	0,009	0,193	0,020	µg/l	107%
Diuron	0,401	0,020	0,330	0,040	µg/l	82%
Hexazinone	0,100	0,005	0,154	0,020	µg/l	154%
Metazachlor	0,253	0,013	0,212	0,025	µg/l	84%
Metolachlor	0,106	0,005	0,113	0,015	µg/l	107%
Pendimethalin	0,403	0,020	0,377	0,045	µg/l	94%
Prometryn	0,152	0,008	0,154	0,020	µg/l	101%
Propazine	0,082	0,004	0,094	0,010	µg/l	115%
Sebuthylazine	<0,05		<0,05		µg/l	•
Simazine	0,388	0,019	0,367	0,040	µg/l	95%
Terbutylazine	<0,05		<0,05		µg/l	•
Terbutryn	0,387	0,019	0,352	0,040	µg/l	91%



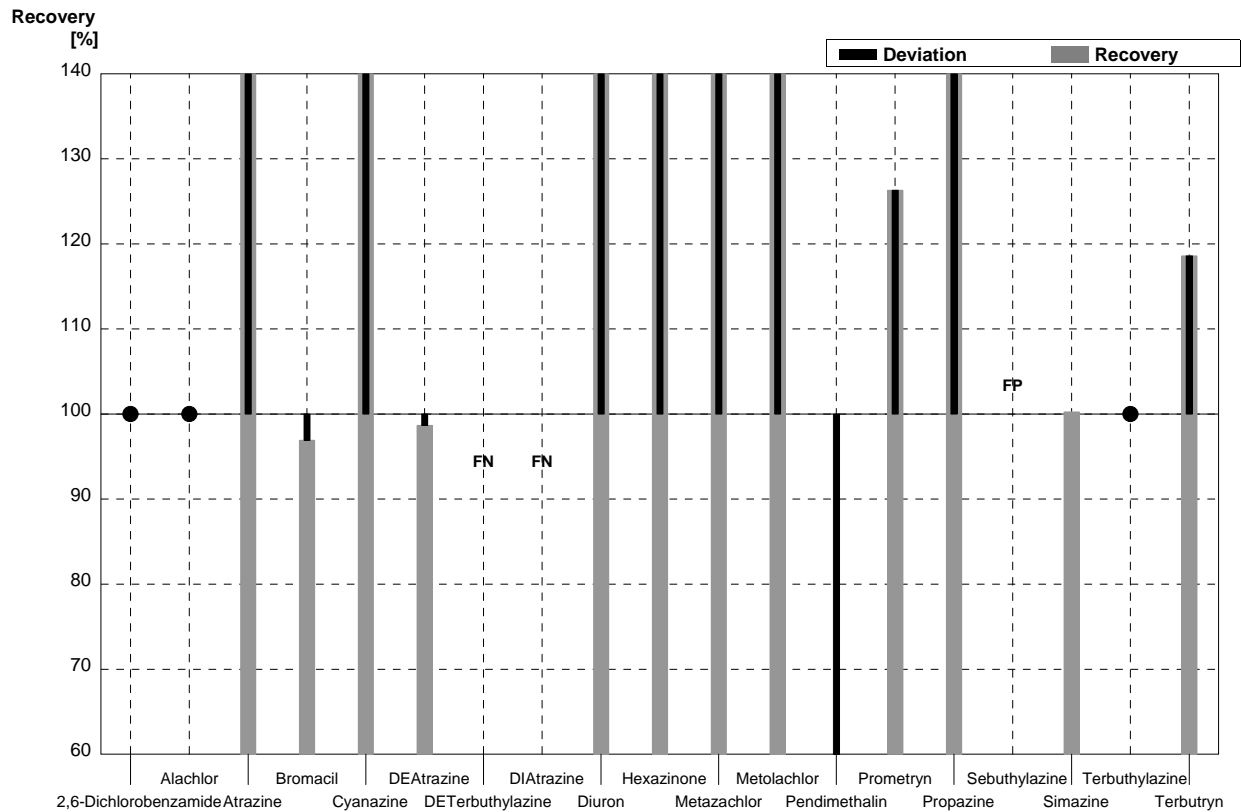
**Sample H84A**  
**Laboratory N**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,162	0,008	0,136	0,026	µg/l	84%
Alachlor	0,122	0,006	0,177	0,030	µg/l	145%
Atrazine	<0,05		<0,05		µg/l	•
Bromacil	0,282	0,014	0,252	0,030	µg/l	89%
Cyanazine	<0,05		<0,05		µg/l	•
DEAtrazine	<0,05		<0,05		µg/l	•
DETerbutylazine	<0,05		<0,05		µg/l	•
DIAtrazine	0,061	0,003	0,093	0,02	µg/l	152%
Diuron	0,104	0,005	0,474	0,06	µg/l	456%
Hexazinone	0,250	0,013	0,267	0,04	µg/l	107%
Metazachlor	<0,05		<0,05		µg/l	•
Metolachlor	0,372	0,019	0,543	0,08	µg/l	146%
Pendimethalin	0,114	0,006	0,092	0,020	µg/l	81%
Prometryn	0,275	0,014	0,205	0,03	µg/l	75%
Propazine	0,358	0,018	0,565	0,08	µg/l	158%
Sebuthylazine	0,400	0,020	0,560	0,08	µg/l	140%
Simazine	0,072	0,004	0,131	0,03	µg/l	182%
Terbutylazine	0,072	0,004	0,206	0,03	µg/l	286%
Terbutryn	<0,05		<0,05		µg/l	•



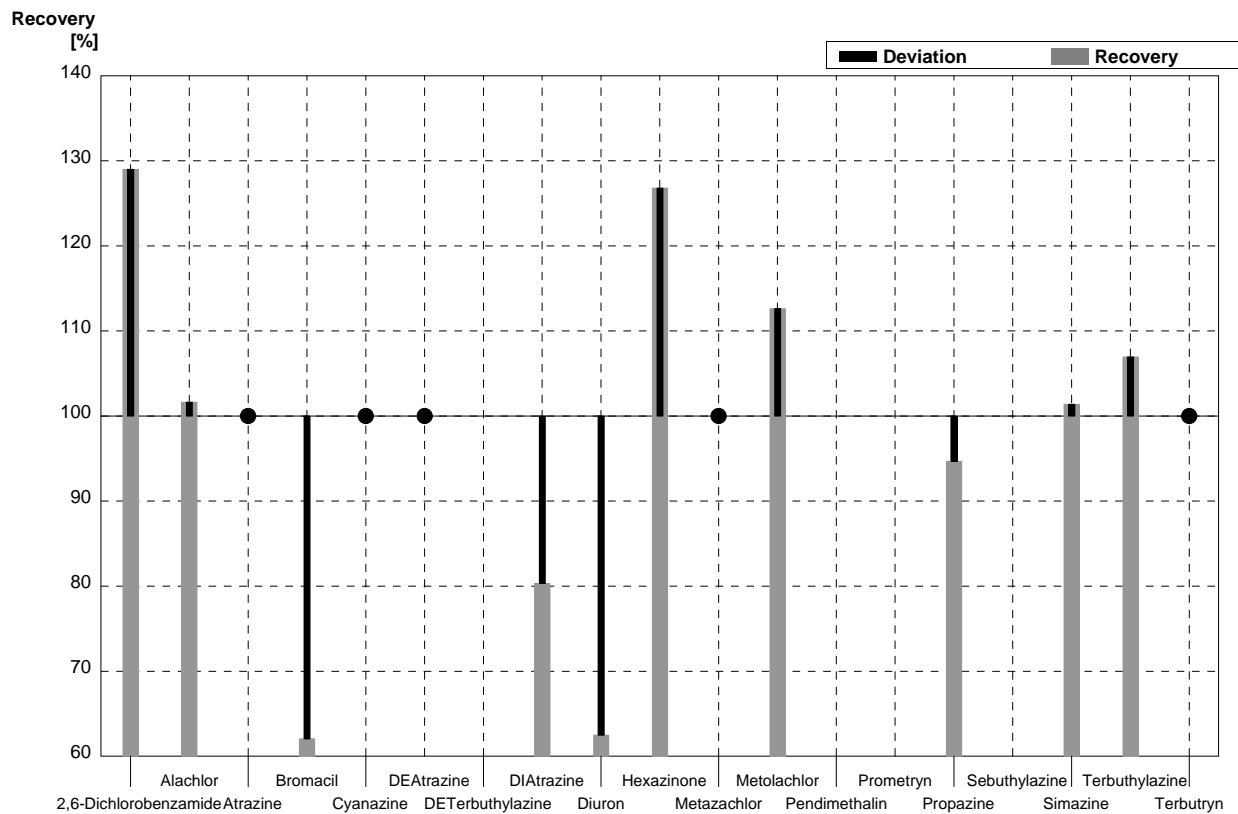
**Sample H84B**  
**Laboratory N**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	<0,05		<0,05		µg/l	•
Alachlor	<0,05		<0,05		µg/l	•
Atrazine	0,146	0,007	0,293	0,04	µg/l	201%
Bromacil	0,163	0,008	0,158	0,02	µg/l	97%
Cyanazine	0,304	0,015	0,466	0,07	µg/l	153%
DEAtrazine	0,226	0,011	0,223	0,04	µg/l	99%
DETerbutylazine	0,181	0,009	<0,05		µg/l	FN
DIAtazine	0,180	0,009	<0,05		µg/l	FN
Diuron	0,401	0,020	0,632	0,09	µg/l	158%
Hexazinone	0,100	0,005	0,151	0,03	µg/l	151%
Metazachlor	0,253	0,013	0,449	0,07	µg/l	177%
Metolachlor	0,106	0,005	0,271	0,05	µg/l	256%
Pendimethalin	0,403	0,020	0,171	0,030	µg/l	42%
Prometryn	0,152	0,008	0,192	0,03	µg/l	126%
Propazine	0,082	0,004	0,218	0,03	µg/l	266%
Sebuthylazine	<0,05		0,195	0,03	µg/l	FP
Simazine	0,388	0,019	0,389	0,05	µg/l	100%
Terbutylazine	<0,05		<0,05		µg/l	•
Terbutryn	0,387	0,019	0,459	0,07	µg/l	119%



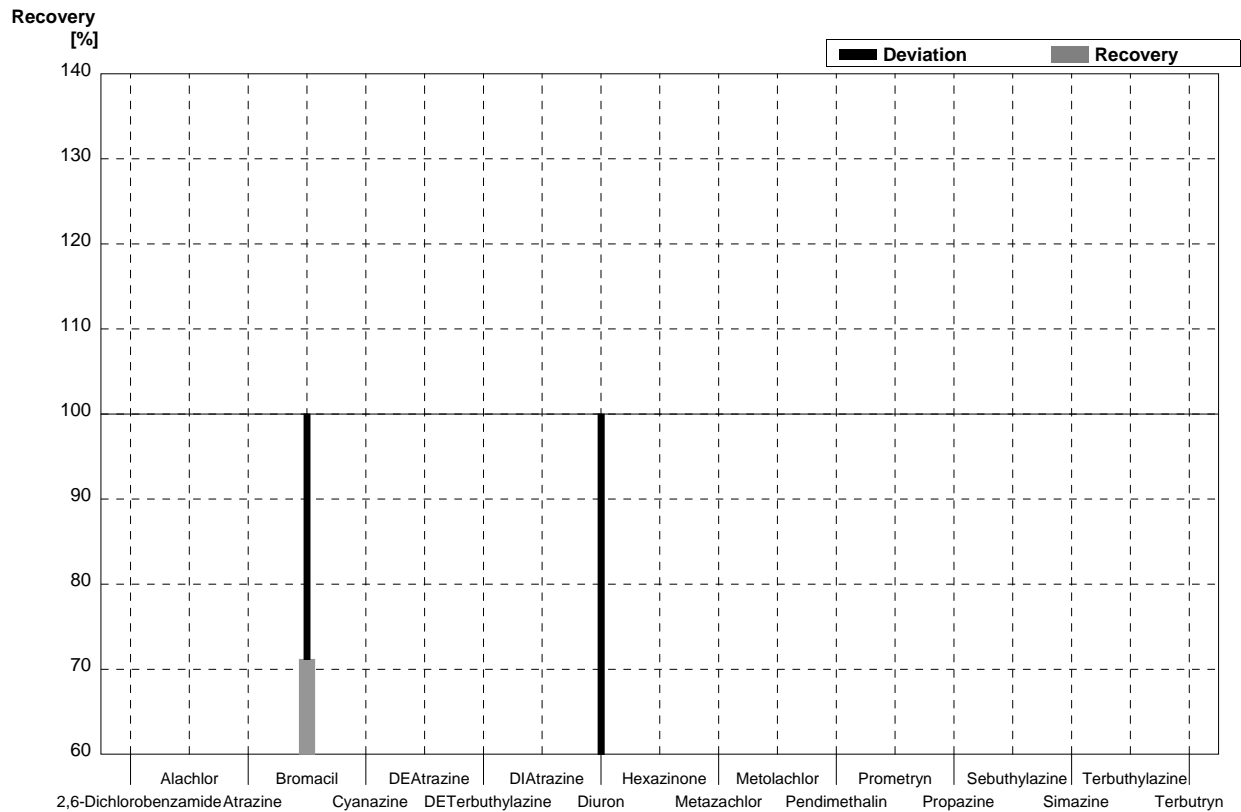
**Sample H84A**  
**Laboratory O**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,162	0,008	0,209	0,042	µg/l	129%
Alachlor	0,122	0,006	0,124	0,025	µg/l	102%
Atrazine	<0,05		<0,010		µg/l	•
Bromacil	0,282	0,014	0,175	0,035	µg/l	62%
Cyanazine	<0,05		<0,010		µg/l	•
DEAtrazine	<0,05		<0,010		µg/l	•
DETerbutylazine	<0,05				µg/l	
DIAtazine	0,061	0,003	0,049	0,010	µg/l	80%
Diuron	0,104	0,005	0,065	0,013	µg/l	63%
Hexazinone	0,250	0,013	0,317	0,063	µg/l	127%
Metazachlor	<0,05		<0,010		µg/l	•
Metolachlor	0,372	0,019	0,419	0,084	µg/l	113%
Pendimethalin	0,114	0,006			µg/l	
Prometryn	0,275	0,014			µg/l	
Propazine	0,358	0,018	0,339	0,068	µg/l	95%
Sebuthylazine	0,400	0,020			µg/l	
Simazine	0,072	0,004	0,073	0,015	µg/l	101%
Terbutylazine	0,072	0,004	0,077	0,015	µg/l	107%
Terbutryn	<0,05		<0,010		µg/l	•



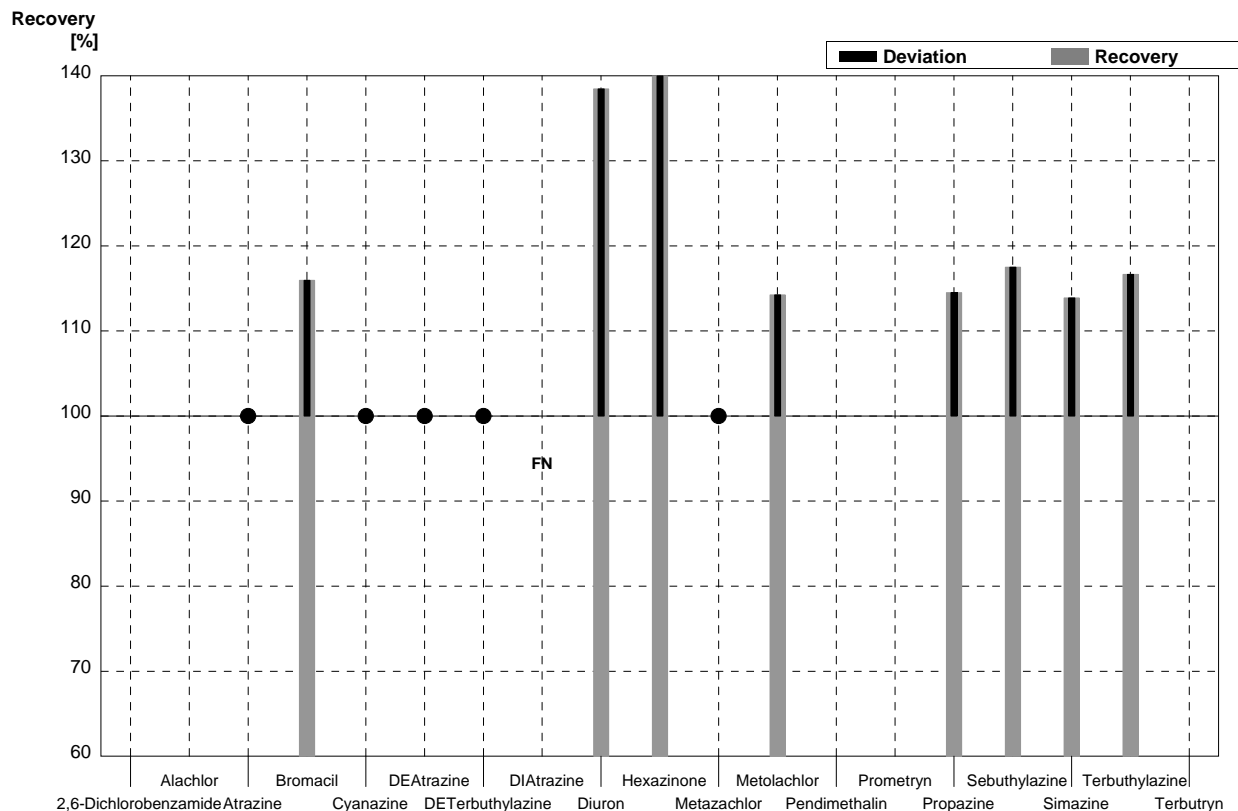
**Sample H84B**  
**Laboratory O**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	<0,05				µg/l	
Alachlor	<0,05				µg/l	
Atrazine	0,146	0,007			µg/l	
Bromacil	0,163	0,008	0,116	0,023	µg/l	71%
Cyanazine	0,304	0,015			µg/l	
DEAtrazine	0,226	0,011			µg/l	
DETerbutylazine	0,181	0,009			µg/l	
DIAtazine	0,180	0,009			µg/l	
Diuron	0,401	0,020	0,240	0,048	µg/l	60%
Hexazinone	0,100	0,005			µg/l	
Metazachlor	0,253	0,013			µg/l	
Metolachlor	0,106	0,005			µg/l	
Pendimethalin	0,403	0,020			µg/l	
Prometryn	0,152	0,008			µg/l	
Propazine	0,082	0,004			µg/l	
Sebuthylazine	<0,05				µg/l	
Simazine	0,388	0,019			µg/l	
Terbutylazine	<0,05				µg/l	
Terbutryn	0,387	0,019			µg/l	



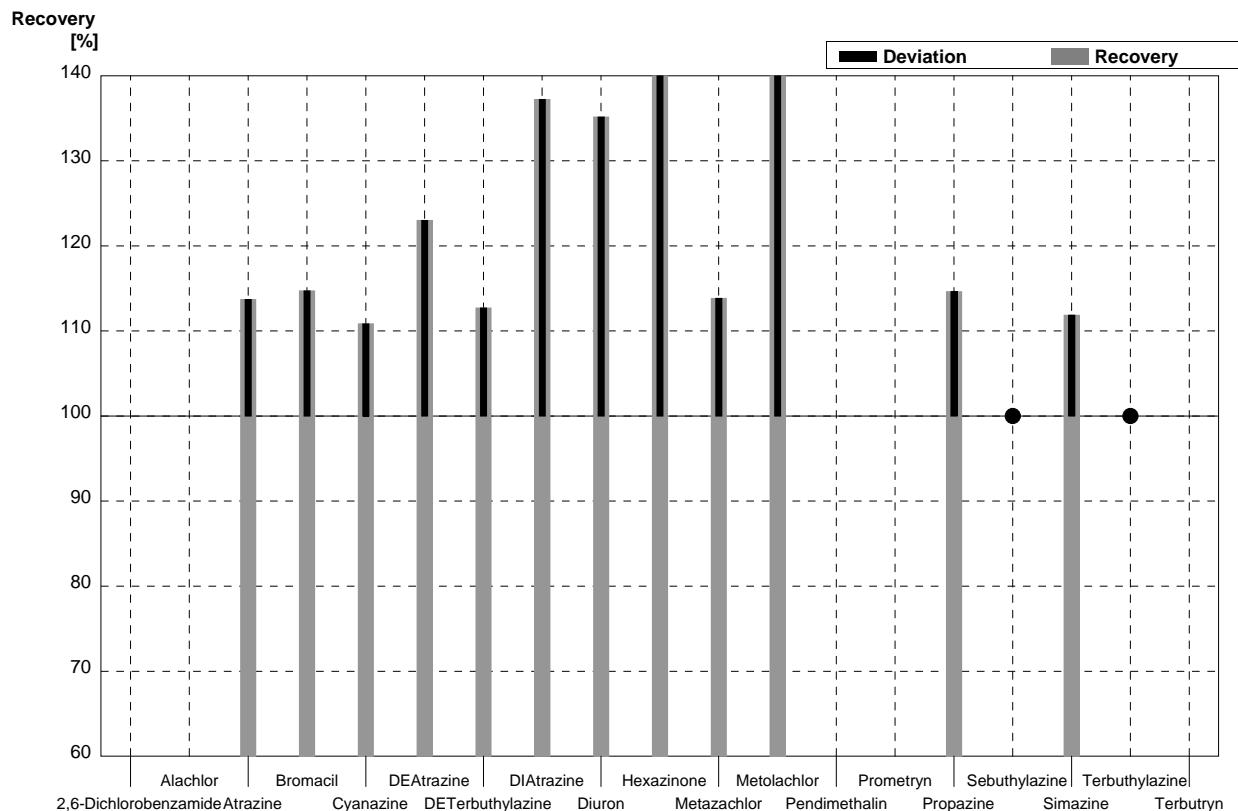
**Sample H84A**  
**Laboratory P**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery														
2,6-Dichlorobenzamide	0,162	0,008			µg/l															
Alachlor	0,122	0,006			µg/l															
Atrazine	<0,05		<0,009	0,012	µg/l	•														
Bromacil	0,282	0,014	0,327	0,012	µg/l	116%														
Cyanazine	<0,05		<0,010	0,012	µg/l	•														
DEAtrazine	<0,05		<0,020	0,012	µg/l	•														
DETerbutylazine	<0,05		<0,006	0,012	µg/l	•														
DIAtiazine	0,061	0,003	<0,039	0,012	µg/l	FN														
Diuron	0,104	0,005	0,144	0,012	µg/l	138%														
Hexazinone	0,250	0,013	0,410	0,012	µg/l	164%														
Metazachlor	<0,05		<0,019	0,012	µg/l	•														
Metolachlor	0,372	0,019	0,425	0,012	µg/l	114%														
Pendimethalin	0,114	0,006			µg/l															
Prometryn	0,275	0,014			µg/l															
Propazine	0,358	0,018	0,410	0,012	µg/l	115%														
Sebuthylazine	0,400	0,020	0,470	0,012	µg/l	118%														
Simazine	0,072	0,004	0,082	0,012	µg/l	114%	Terbutylazine	0,072	0,004	0,084	0,012	µg/l	117%	Terbutryn	<0,05				µg/l	
Terbutylazine	0,072	0,004	0,084	0,012	µg/l	117%														
Terbutryn	<0,05				µg/l															



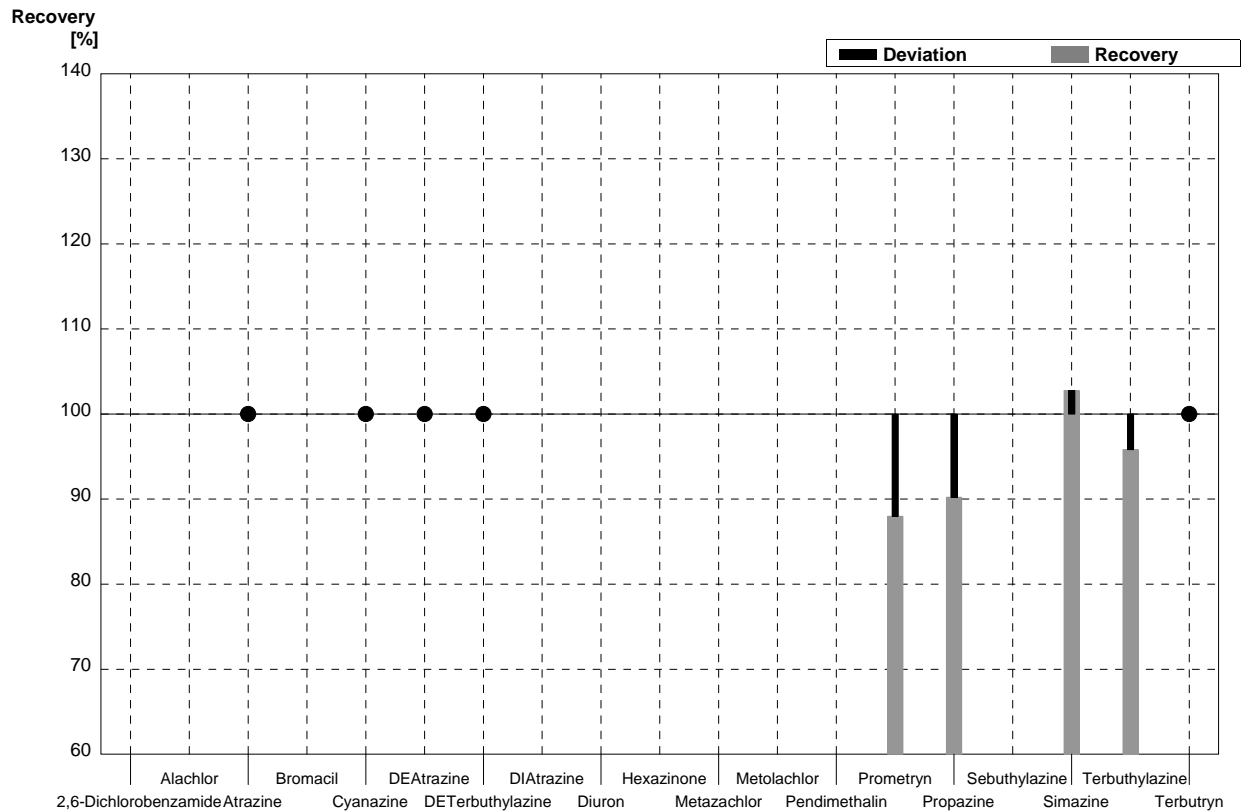
**Sample H84B**  
**Laboratory P**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery														
2,6-Dichlorobenzamide	<0,05				µg/l															
Alachlor	<0,05				µg/l															
Atrazine	0,146	0,007	0,166	0,012	µg/l	114%														
Bromacil	0,163	0,008	0,187	0,012	µg/l	115%														
Cyanazine	0,304	0,015	0,337	0,012	µg/l	111%														
DEAtrazine	0,226	0,011	0,278	0,012	µg/l	123%														
DETerbutylazine	0,181	0,009	0,204	0,012	µg/l	113%														
DIAtazine	0,180	0,009	0,247	0,012	µg/l	137%														
Diuron	0,401	0,020	0,542	0,012	µg/l	135%														
Hexazinone	0,100	0,005	0,166	0,012	µg/l	166%														
Metazachlor	0,253	0,013	0,288	0,012	µg/l	114%														
Metolachlor	0,106	0,005	0,158	0,012	µg/l	149%														
Pendimethalin	0,403	0,020			µg/l															
Prometryn	0,152	0,008			µg/l															
Propazine	0,082	0,004	0,094	0,012	µg/l	115%														
Sebuthylazine	<0,05		<0,007	0,012	µg/l	•														
Simazine	0,388	0,019	0,434	0,012	µg/l	112%	Terbutylazine	<0,05		<0,009	0,012	µg/l	•	Terbutryn	0,387	0,019			µg/l	
Terbutylazine	<0,05		<0,009	0,012	µg/l	•														
Terbutryn	0,387	0,019			µg/l															



**Sample H84A**  
**Laboratory Q**

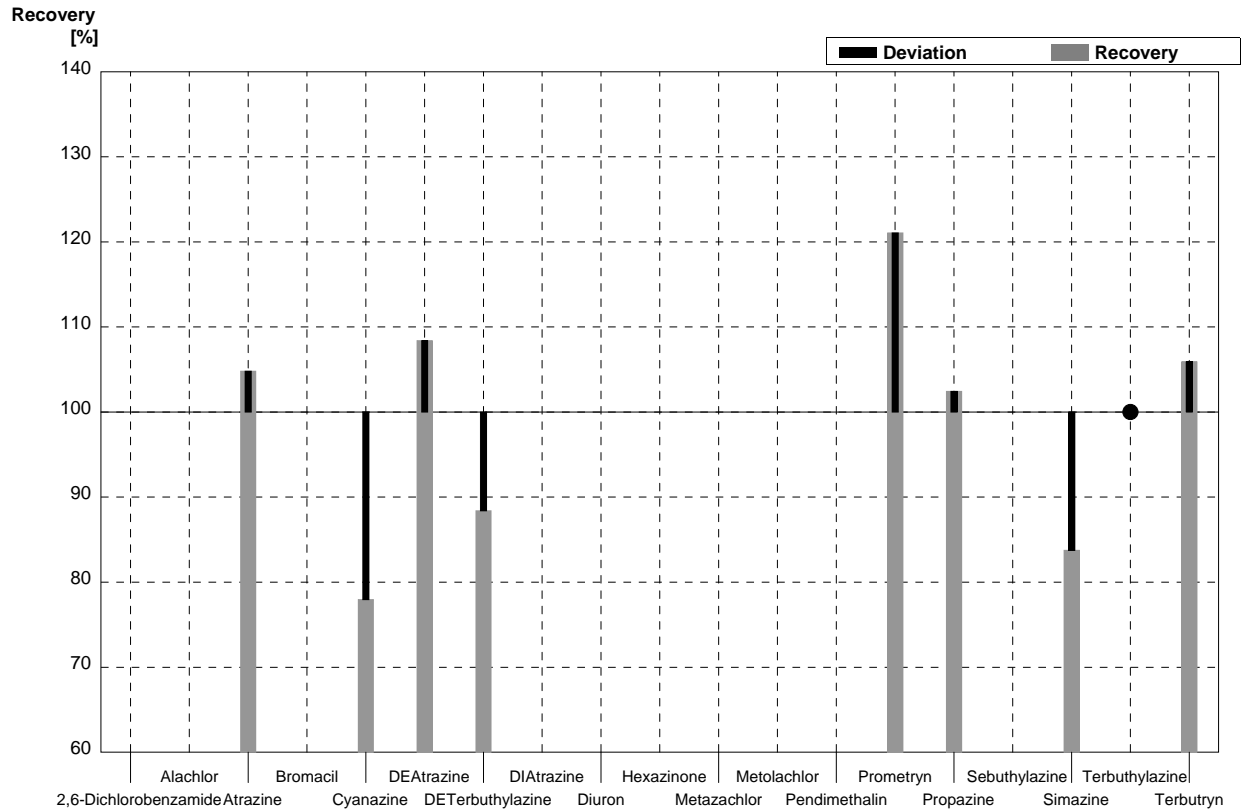
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,162	0,008			µg/l	
Alachlor	0,122	0,006			µg/l	
Atrazine	<0,05		<0,005		µg/l	•
Bromacil	0,282	0,014			µg/l	
Cyanazine	<0,05		<0,005		µg/l	•
DEAtrazine	<0,05		<0,005		µg/l	•
DETerbutylazine	<0,05		<0,005		µg/l	•
DIAtazine	0,061	0,003			µg/l	
Diuron	0,104	0,005			µg/l	
Hexazinone	0,250	0,013			µg/l	
Metazachlor	<0,05				µg/l	
Metolachlor	0,372	0,019			µg/l	
Pendimethalin	0,114	0,006			µg/l	
Prometryn	0,275	0,014	0,242	0,045	µg/l	88%
Propazine	0,358	0,018	0,323	0,063	µg/l	90%
Sebuthylazine	0,400	0,020			µg/l	
Simazine	0,072	0,004	0,074	0,015	µg/l	103%
Terbutylazine	0,072	0,004	0,069	0,015	µg/l	96%
Terbutryn	<0,05		<0,005		µg/l	•





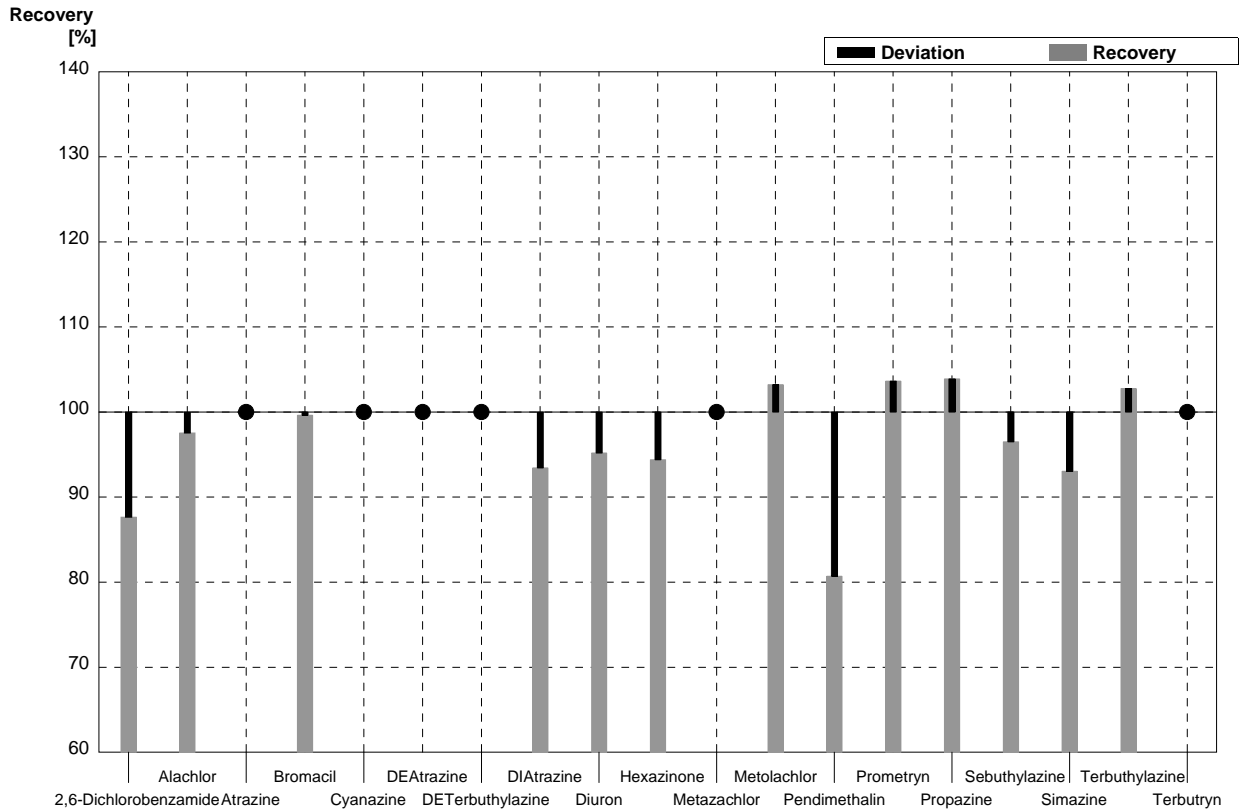
**Sample H84B**  
**Laboratory Q**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	<0,05				µg/l	
Alachlor	<0,05				µg/l	
Atrazine	0,146	0,007	0,153	0,030	µg/l	105%
Bromacil	0,163	0,008			µg/l	
Cyanazine	0,304	0,015	0,237	0,051	µg/l	78%
DEAtrazine	0,226	0,011	0,245	0,047	µg/l	108%
DETerbutylazine	0,181	0,009	0,160	0,030	µg/l	88%
DIAtrazine	0,180	0,009			µg/l	
Diuron	0,401	0,020			µg/l	
Hexazinone	0,100	0,005			µg/l	
Metazachlor	0,253	0,013			µg/l	
Metolachlor	0,106	0,005			µg/l	
Pendimethalin	0,403	0,020			µg/l	
Prometryn	0,152	0,008	0,184	0,035	µg/l	121%
Propazine	0,082	0,004	0,084	0,018	µg/l	102%
Sebuthylazine	<0,05				µg/l	
Simazine	0,388	0,019	0,325	0,063	µg/l	84%
Terbutylazine	<0,05		<0,005		µg/l	•
Terbutryn	0,387	0,019	0,410	0,078	µg/l	106%



**Sample H84A**  
**Laboratory R**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,162	0,008	0,142	0,014	µg/l	88%
Alachlor	0,122	0,006	0,119	0,012	µg/l	98%
Atrazine	<0,05		<0,030		µg/l	•
Bromacil	0,282	0,014	0,281	0,042	µg/l	100%
Cyanazine	<0,05		<0,030		µg/l	•
DEAtrazine	<0,05		<0,030		µg/l	•
DETerbutylazine	<0,05		<0,030		µg/l	•
DIAtazine	0,061	0,003	0,057	0,006	µg/l	93%
Diuron	0,104	0,005	0,099	0,015	µg/l	95%
Hexazinone	0,250	0,013	0,236	0,035	µg/l	94%
Metazachlor	<0,05		<0,030		µg/l	•
Metolachlor	0,372	0,019	0,384	0,038	µg/l	103%
Pendimethalin	0,114	0,006	0,092	0,018	µg/l	81%
Prometryn	0,275	0,014	0,285	0,028	µg/l	104%
Propazine	0,358	0,018	0,372	0,037	µg/l	104%
Sebuthylazine	0,400	0,020	0,386	0,039	µg/l	97%
Simazine	0,072	0,004	0,067	0,007	µg/l	93%
Terbutylazine	0,072	0,004	0,074	0,007	µg/l	103%
Terbutryn	<0,05		<0,030		µg/l	•



**Sample H84B**  
**Laboratory R**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	<0,05		<0,030		µg/l	•
Alachlor	<0,05		<0,030		µg/l	•
Atrazine	0,146	0,007	0,145	0,015	µg/l	99%
Bromacil	0,163	0,008	0,161	0,024	µg/l	99%
Cyanazine	0,304	0,015	0,282	0,028	µg/l	93%
DEAtrazine	0,226	0,011	0,222	0,022	µg/l	98%
DETerbutylazine	0,181	0,009	0,199	0,020	µg/l	110%
DIAtrazine	0,180	0,009	0,165	0,017	µg/l	92%
Diuron	0,401	0,020	0,403	0,060	µg/l	100%
Hexazinone	0,100	0,005	0,093	0,014	µg/l	93%
Metazachlor	0,253	0,013	0,242	0,036	µg/l	96%
Metolachlor	0,106	0,005	0,110	0,011	µg/l	104%
Pendimethalin	0,403	0,020	0,340	0,068	µg/l	84%
Prometryn	0,152	0,008	0,151	0,015	µg/l	99%
Propazine	0,082	0,004	0,083	0,008	µg/l	101%
Sebuthylazine	<0,05		<0,030		µg/l	•
Simazine	0,388	0,019	0,358	0,036	µg/l	92%
Terbutylazine	<0,05		<0,030		µg/l	•
Terbutryn	0,387	0,019	0,385	0,039	µg/l	99%

