

University of Stuttgart
Germany



Analytische Qualitätssicherung Baden-Württemberg

Proficiency Test 9/24

- TW 04 –acidic pesticides in drinking water -

bentazone, bromoxynil, dichlorprop, MCPA, MCPB, mecoprop,
2,4-D, quinmerac, 2,4,5-T

Final report

provided by

AQS Baden-Württemberg at

Institute for Sanitary Engineering, Water Quality and Solid Waste Management,
University of Stuttgart

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on behalf of

Ministry of Food, Rural Affairs and Consumer Protection
Baden-Württemberg

Stuttgart, in February 2025

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Version of the report	1	

List of contents

1. General	1
2. PT design	1
3. Sample preparation	1
4. Homogeneity and stability	2
5. Sample distribution	2
6. Analytical methods	2
7. Submission of the results	2
8. Basic principle of evaluation and assessment	2
9. Evaluation	4
10. Explanation for the appendices	4
11. Measurement uncertainty	4
12. Traceable reference values	5
13. Internet	5

Appendix A

BENTAZONE	A-1
BROMOXYNIL	A-9
DICHLORPROP	A-17
MCPA	A-25
MCPB	A-33
MECOPROP	A-41
2,4-D	A-49
QUINMERAC	A-57
2,4,5-T	A-65

Appendix B

Appendix C

BENTAZONE	C-1
BROMOXYNIL	C-19
DICHLORPROP	C-37
MCPA	C-55
MCPB	C-73
MECOPROP	C-91
2,4-D	C-109
QUINMERAC	C-127
2,4,5-T	C-145

1. General

This PT was provided by AQS Baden-Württemberg.

The following parameters were offered:

- bentazone
- bromoxynil
- dichlorprop
- MCPA
- MCPB
- mecoprop
- 2,4-D
- quinmerac
- 2,4,5-T

The PT was executed and evaluated according to the requirements of DIN 38402-A45 and ISO/TS 20612.

2. PT design

Each participant received the following samples:

- 3 x 2 samples for the determination of Bentazon, Bromoxynil, Dichlorprop, MCPA, MCPB, 2,4-D, Quinmerac, 2,4,5-T in 1000-ml-glass bottles with screw cap. Preservation by adding sodium azide (ca. 40 mg/l) and by cooling.

Six different concentration levels/batches were produced. The distribution of the levels to the participants was randomised, but care was taken to ensure that each participant received a sample from levels 1 or 2.

3. Sample preparation

The samples for the determination of acidic pesticides were based on a real ground water matrix. To prepare the samples, the groundwater was filtered through 5 µm and 1 µm filter cartridges to remove all particles and irradiated with UV light to reduce any bacterial contamination.

To prepare the samples, the matrix was spiked with stock solutions, prepared from pure substances, with precisely known concentrations. Acetonitrile was used as a solubiliser. The samples spiked with the analytes covered drinking water and groundwater-relevant.

The samples were cooled immediately after production. Cooling packs were also enclosed with the samples for dispatch.

4. Homogeneity and stability

The homogeneity and stability of the samples was confirmed according to ISO 13528:2022. The analysis for the determination of homogeneity and stability were subcontracted to an accredited laboratory according to ISO/IEC 17025.

5. Sample distribution

The samples were dispatched on 7.10.2024 by express service.

6. Analytical methods

The participants were free to choose a suitable method, but a limit of quantification of 0,04 µg/l for all parameters was required.

The participants were informed that the samples had to be analysed in the own laboratory, with own personal and own equipment. Subcontracting of the analysis was not allowed.

The samples had to be analysed in duplicate over the complete method (sample preparation and measurement). The participants were asked to report the results as means from both determinations in µg/l with three significant digits.

7. Submission of the results

The deadline for the submission of results was on 28.10.2024.

8. Basic principle of evaluation and assessment

The basic principle of the evaluation and assessment of the PTs from AQS Baden-Württemberg are described in the document „Evaluation of the PTs and information for the report“, which can be downloaded from www.aqsbw.de/pdf/ausw_berichte_v1_en.pdf.

This PT was evaluated as follows:

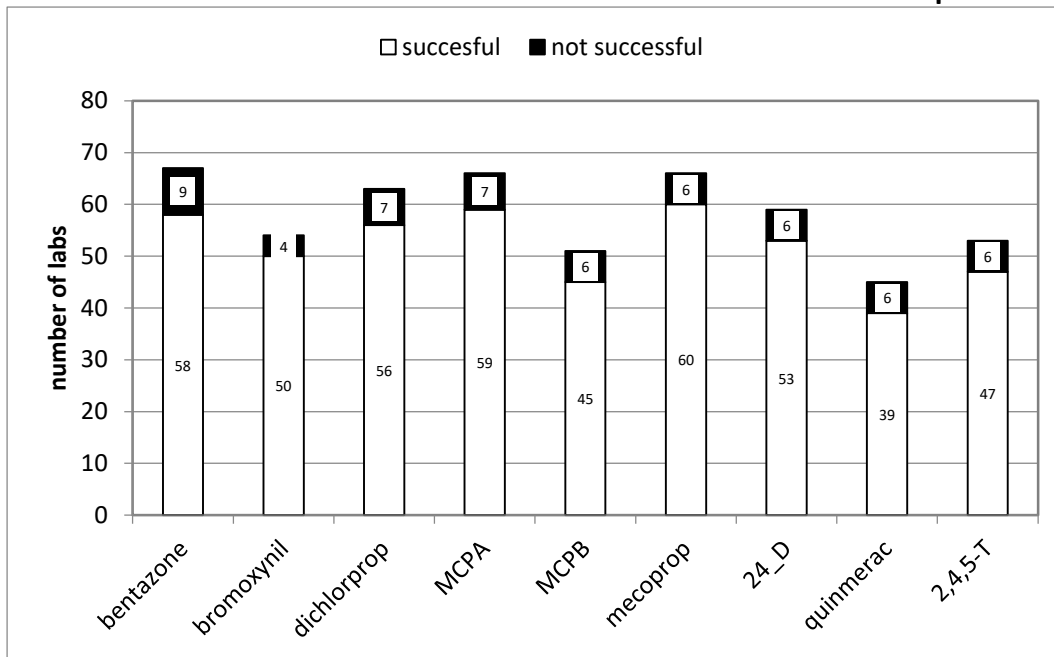
Assigned value x_{pt}:	Consensus value (Hampel estimator)						
Standard deviation for proficiency assessment σ_{pt}:	Q method						
Upper limit of σ_{pt}:	25 %						
Lower limit of σ_{pt}:	5 %						
Assessment:	z_U -Score						
Classification of the single results:	<table style="border: none; width: 100%;"> <tr> <td style="border: none;">$z_U \leq 2.0$</td> <td style="border: none;">successful</td> </tr> <tr> <td style="border: none;">$2.0 < z_U < 3.0$</td> <td style="border: none;">questionable</td> </tr> <tr> <td style="border: none;">$z_U \geq 3.0$</td> <td style="border: none;">unsatisfactory</td> </tr> </table>	$ z_U \leq 2.0$	successful	$2.0 < z_U < 3.0$	questionable	$ z_U \geq 3.0$	unsatisfactory
$ z_U \leq 2.0$	successful						
$2.0 < z_U < 3.0$	questionable						
$ z_U \geq 3.0$	unsatisfactory						
Parameter assessment:	A parameter was assessed as successful, if more than half of the values were correctly						

	determined (2 out of 3 values are within the tolerance limits).
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9. Evaluation

Number of participants:	69 All laboratories reported results
Number of reported values	1571
Number of accepted values:	1392 (88,61 %)

Illustration of the successful and not successful laboratories for each parameter



10. Explanation for the appendices

The explanations for the appendices can be found in the document „Evaluation of the PTs and information for the report“, which can be downloaded from www.agsbw.de/pdf/ausw_berichte_v1_en.pdf.

11. Measurement uncertainty

General:

Number of labs with valid values	69
Number of labs with valid values and reported measurement uncertainties	47 (68,1 %)
Number of valid values	1571
Number of valid values with measurement uncertainties	107 (68,42 %)

Measurement uncertainties against the accreditation status

Accreditation status of the values	Number of values	Number of values with measurement uncertainty
accredited	1413	991 (70,1 %)
not accredited	158	83(52,5 %)

Interpretation of the reported measurement uncertainties:

As always, the range is very large in some cases, from unrealistically small to much too large. In many cases, the measurement uncertainties are plausible. However, the larger scatter found in the proficiency test for quinmerac is not reflected.

A plausibility analysis using the comparative standard deviations in proficiency tests would be helpful in any case.

If measurement uncertainties are underestimated, values assessed as “satisfactory” in the PT ($|z_U| \leq 2,0$), will have a large ζ -score. $|\zeta| > 2$ means that the “own” requirements (defined in terms of estimated uncertainty) are not fulfilled.

Number of values with reported measurement uncertainty having a $z_U \leq 2,0$	962
Number of values with a magnitude of ζ-scores > 2 The own requirements of the laboratory are not fulfilled and the estimation of the measurement uncertainty is too low	58 (6,0 %)

12. Traceable reference values

The explanations about traceable reference values can be found in the document „Evaluation of the PTs and information for the report“, which can be downloaded from www.aqsbw.de/pdf/ausw_berichte_v1_en.pdf

13. Internet

The report is available on the following webpage: www.aqsbw/pdf/311/report_311.pdf

bentazone

level	assigned value [µg/l]	expanded uncertainty of the assigned value [%]	standard deviation, calculated using robust statistics [µg/l]	standard deviation from variance function [µg/l]	standard deviation for proficiency assessment [µg/l]	standard deviation for proficiency assessment [%]	upper tolerance limit [µg/l]	lower tolerance limit [µg/l]	upper tolerance limit [%]	lower tolerance limit [%]	number of results	out below	out above	out [%]
1	0,1557	5,31	0,0190	0,0202	0,0202	12,94	0,1990	0,1177	27,78	-24,41	33	1	3	12,1
2	0,3041	5,19	0,0368	0,0364	0,0364	11,97	0,3818	0,2351	25,55	-22,68	34	3	1	11,8
3	0,4223	5,07	0,0492	0,0487	0,0487	11,52	0,5260	0,3300	24,53	-21,87	33	4	2	18,2
4	0,5375	6,44	0,0795	0,0602	0,0602	11,21	0,6655	0,4230	23,81	-21,29	33	3	1	11,8
5	0,6438	4,07	0,0593	0,0707	0,0707	10,97	0,7937	0,5094	23,29	-20,87	32	2	0	6,3
6	0,8417	4,25	0,0834	0,0895	0,0895	10,64	1,031	0,6712	22,53	-20,26	34	2	4	17,6
sum											199	15	11	13,1

Recovery and matrix content

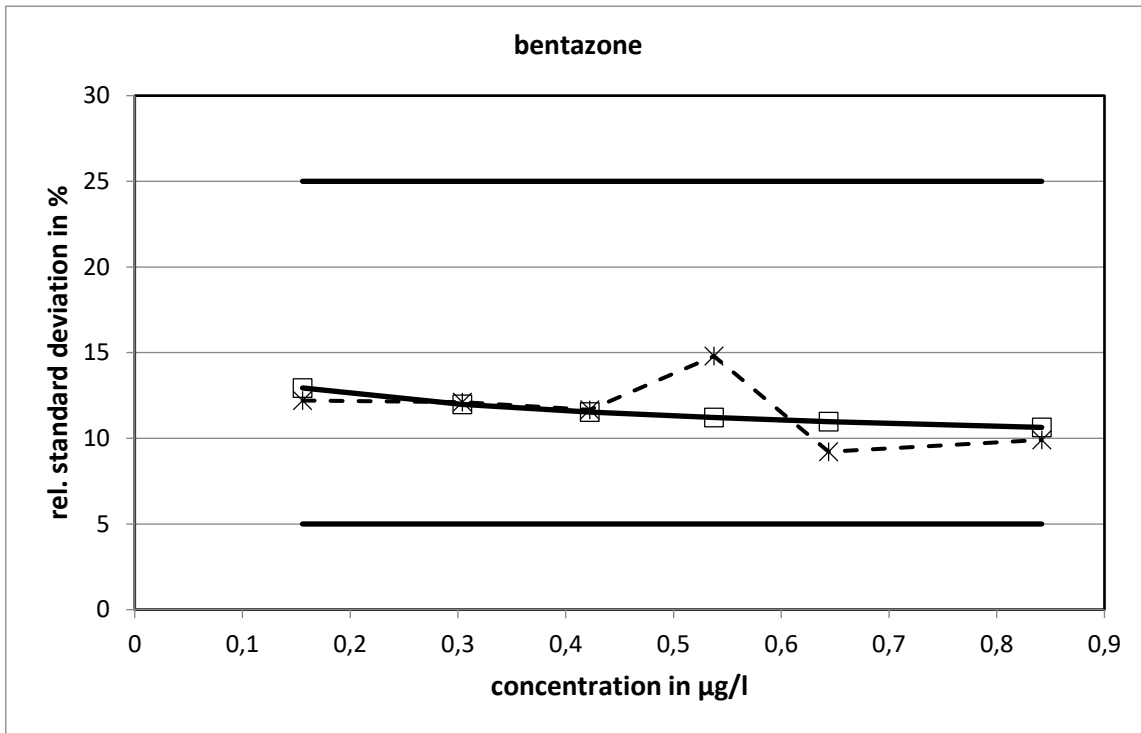


slope of the regression: 0,975; recovery rate: 97,5 %

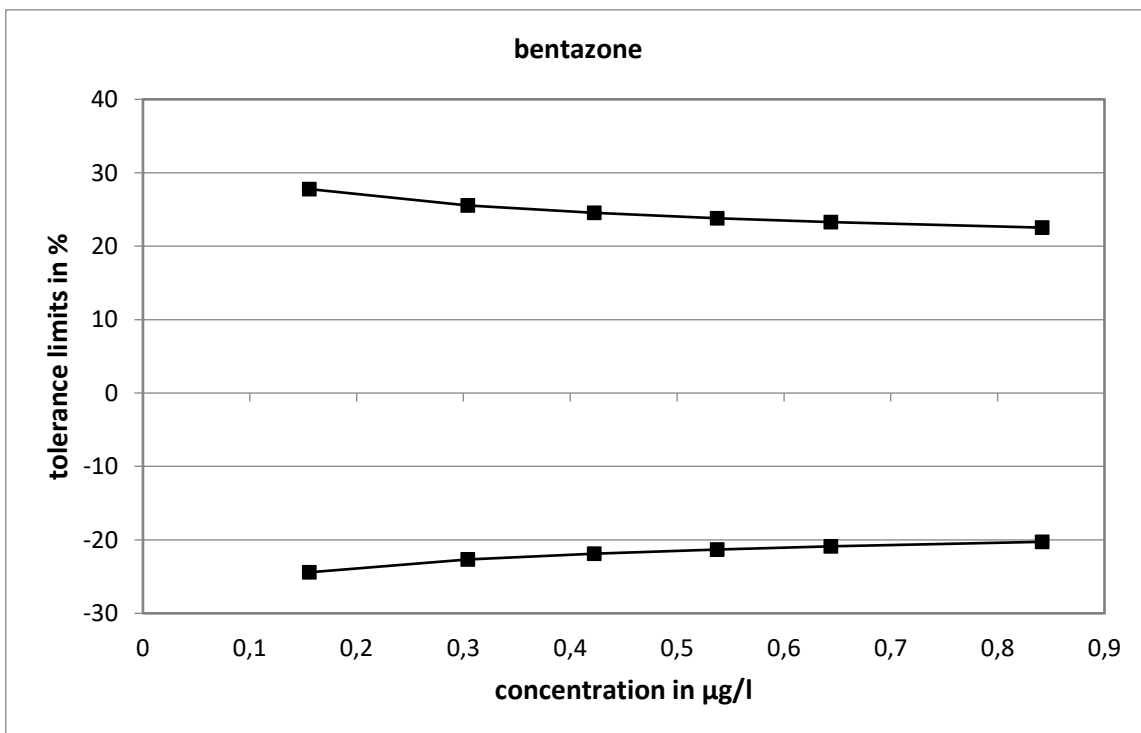
neg. x-axis intercept corresponds to the matrix content: 0,01 µg/l

expanded uncertainty of the matrix content: 0,01 µg/l = 100 %

Relative standard deviation and tolerance limits



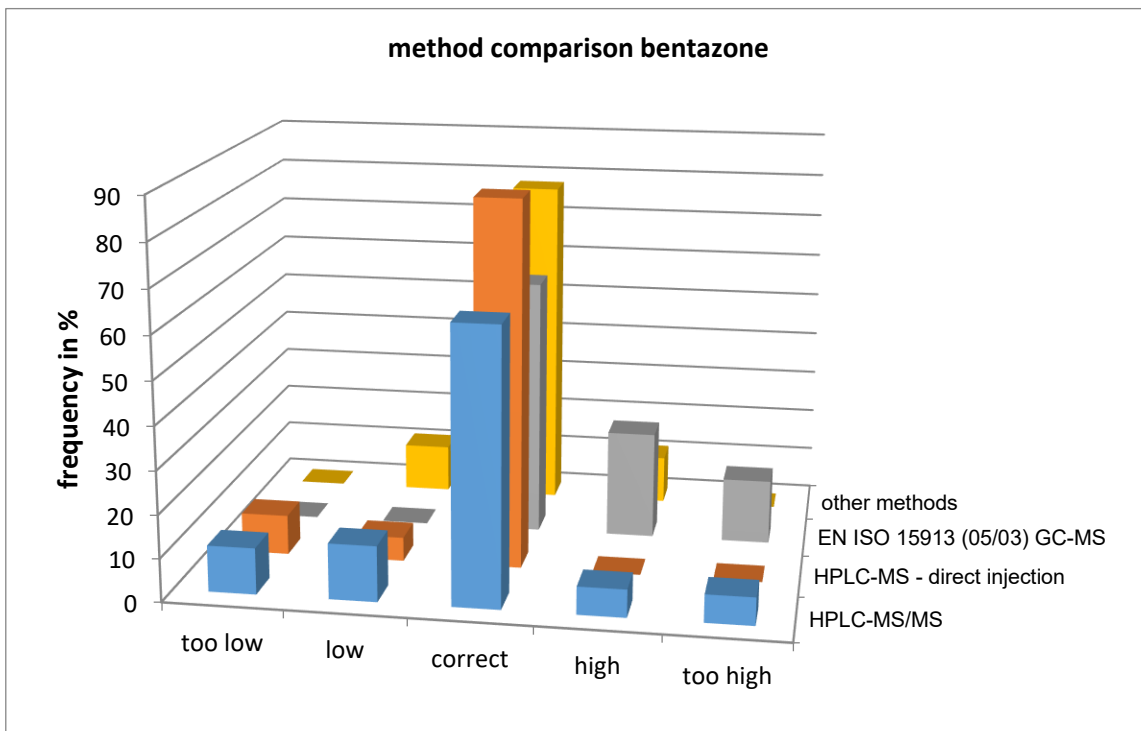
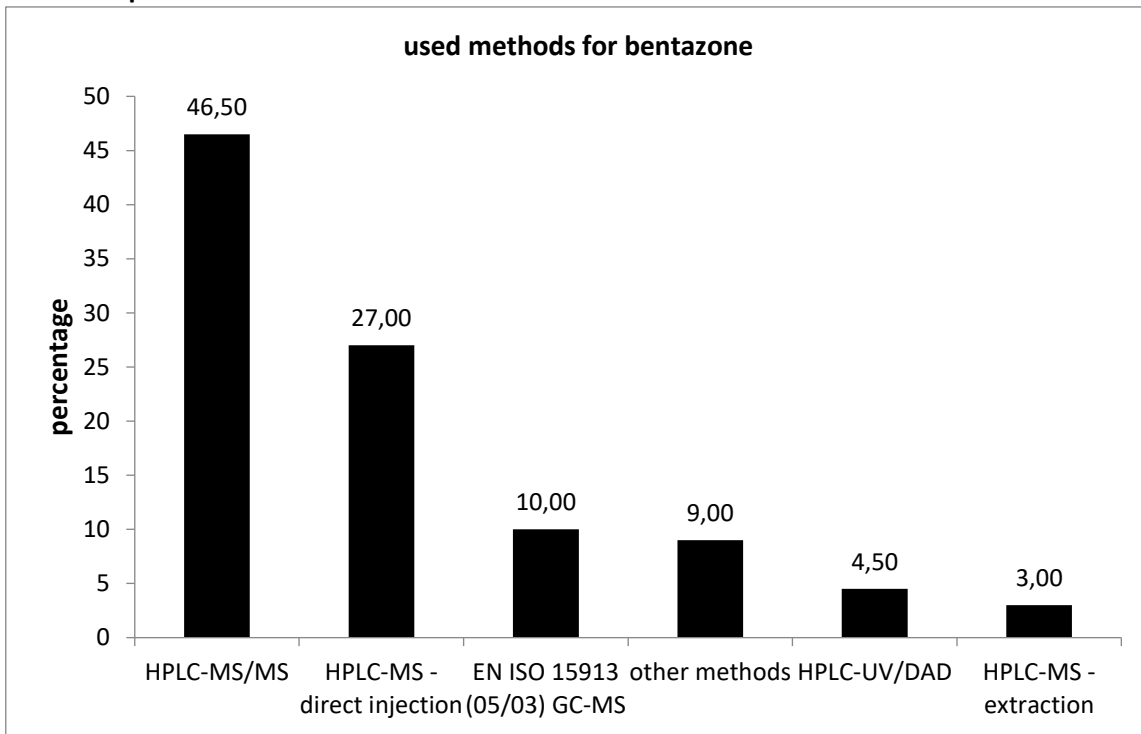
The relative standard deviations calculated with the variance function did not reach the limits.



The relative standard deviations calculated with the variance function did not reach

the limits.

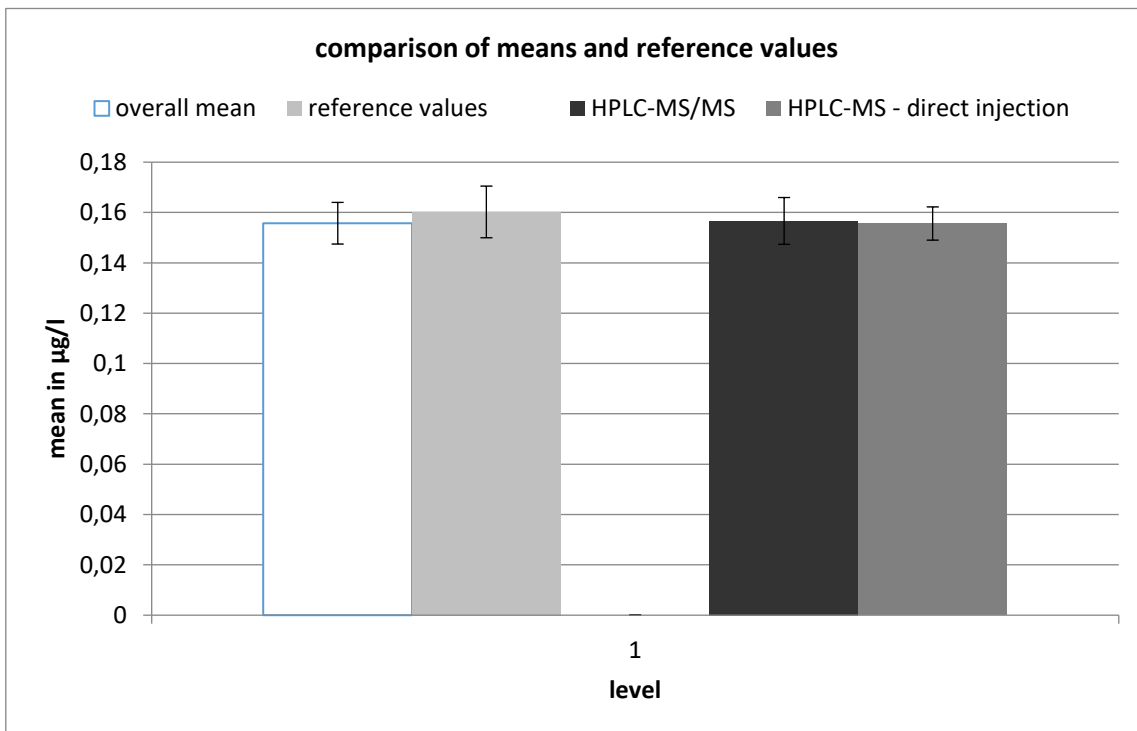
Method specific evaluation

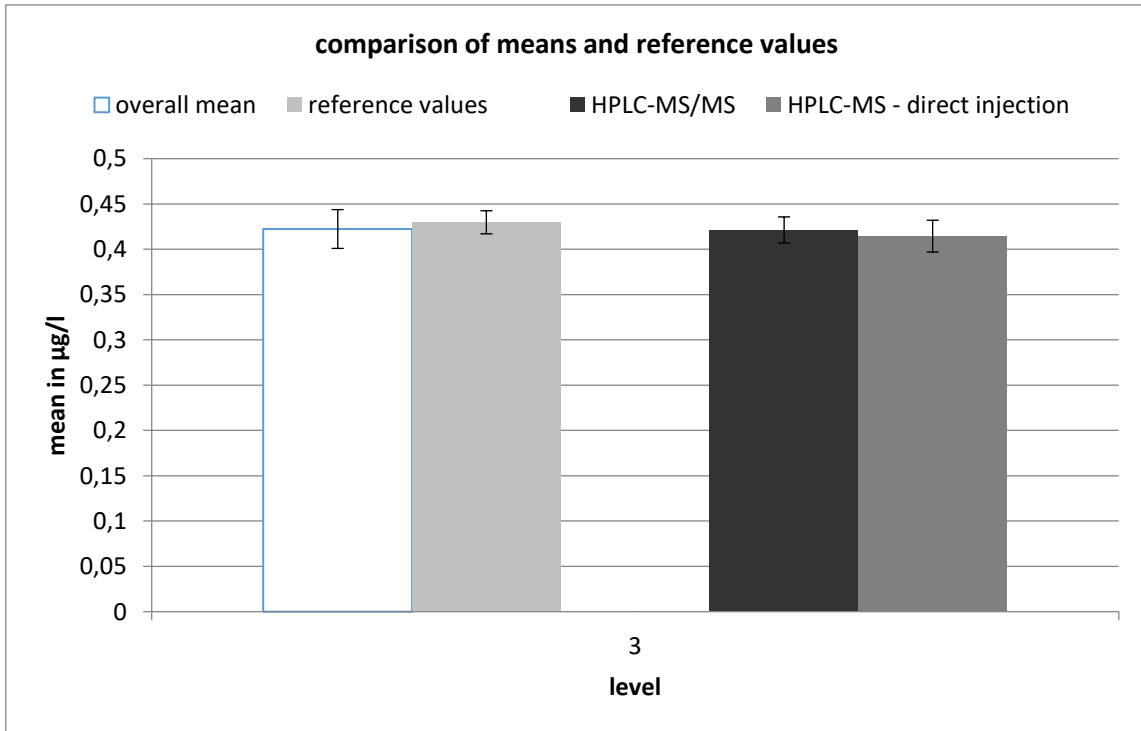
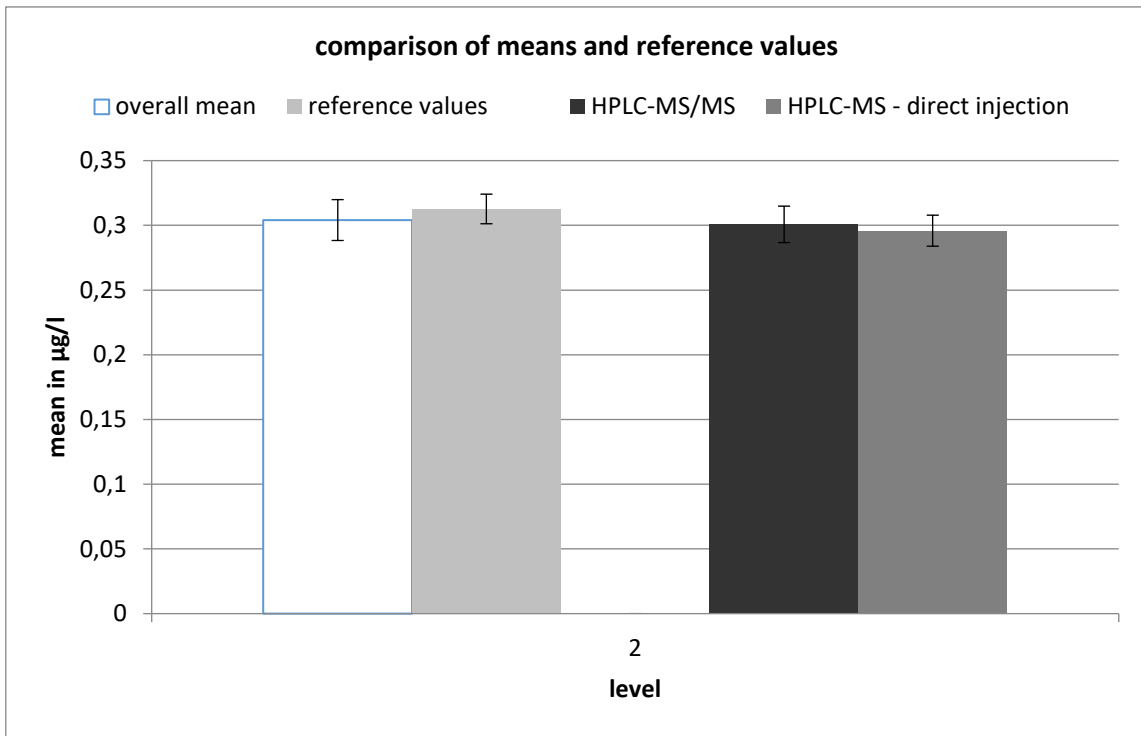


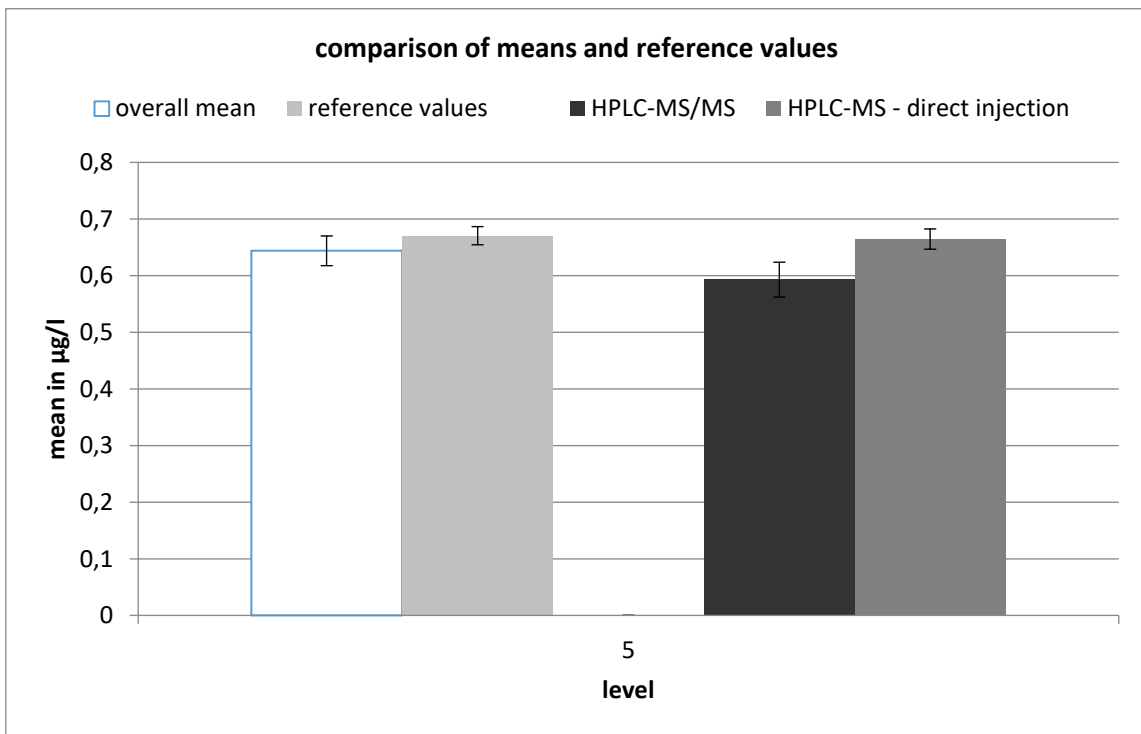
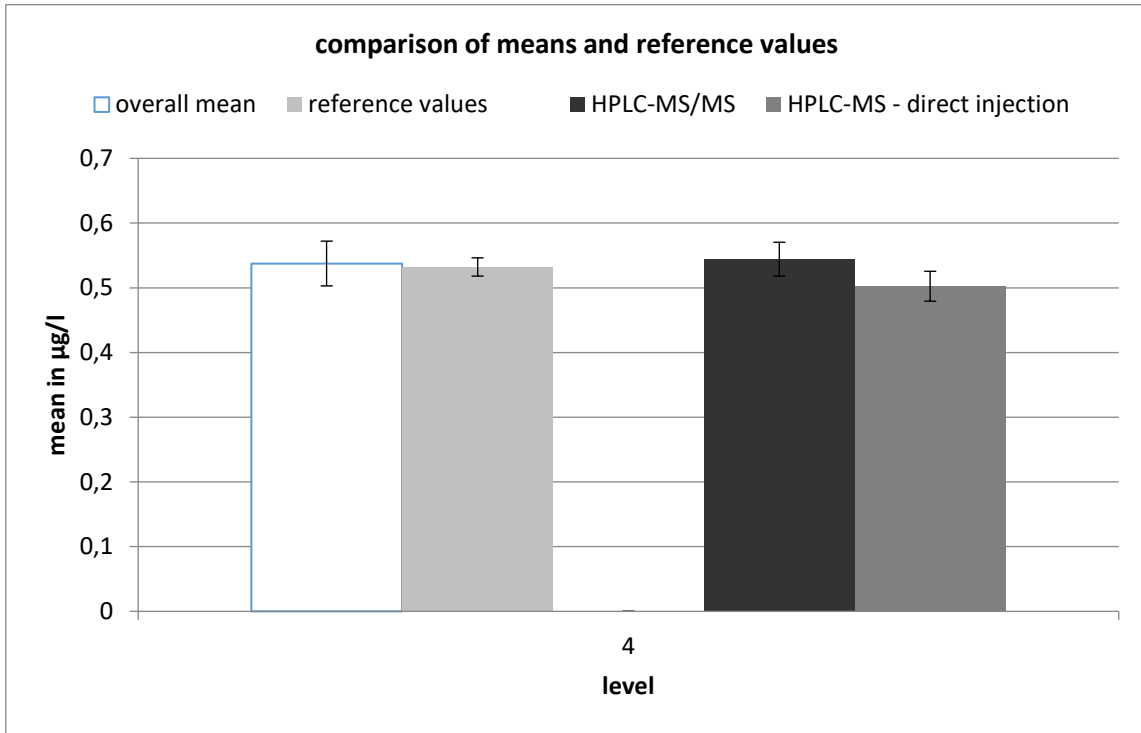
The values measured using GC-MS showed a slight tendency for too high values.

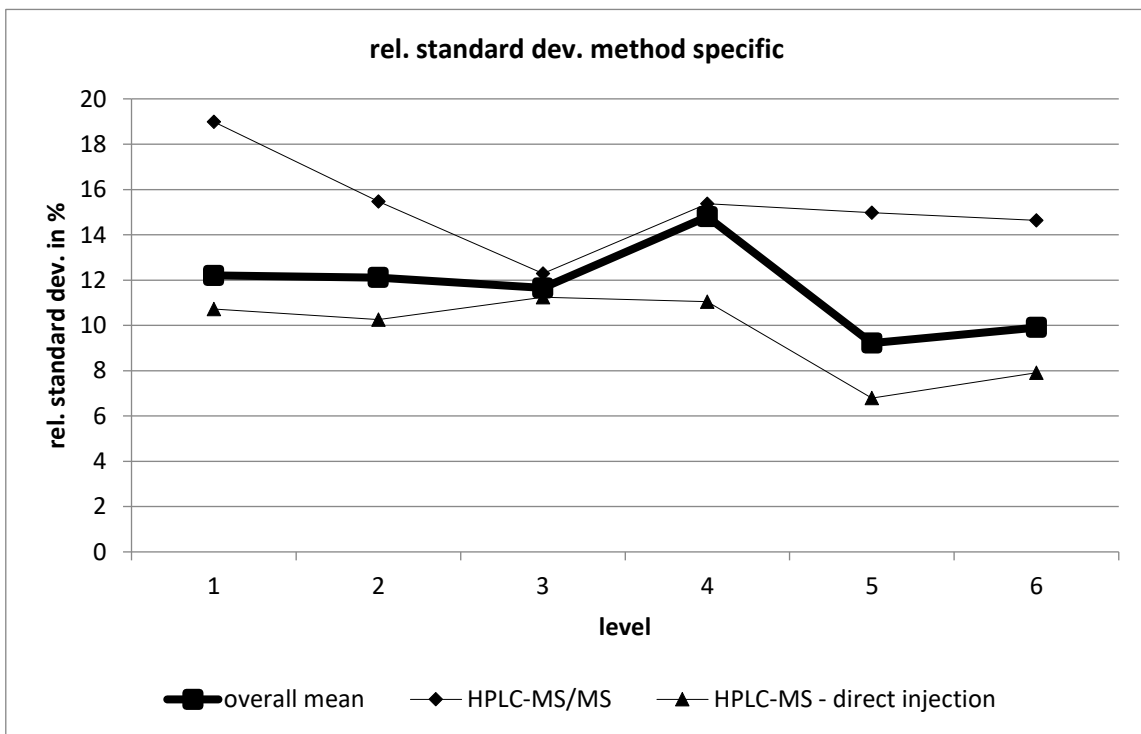
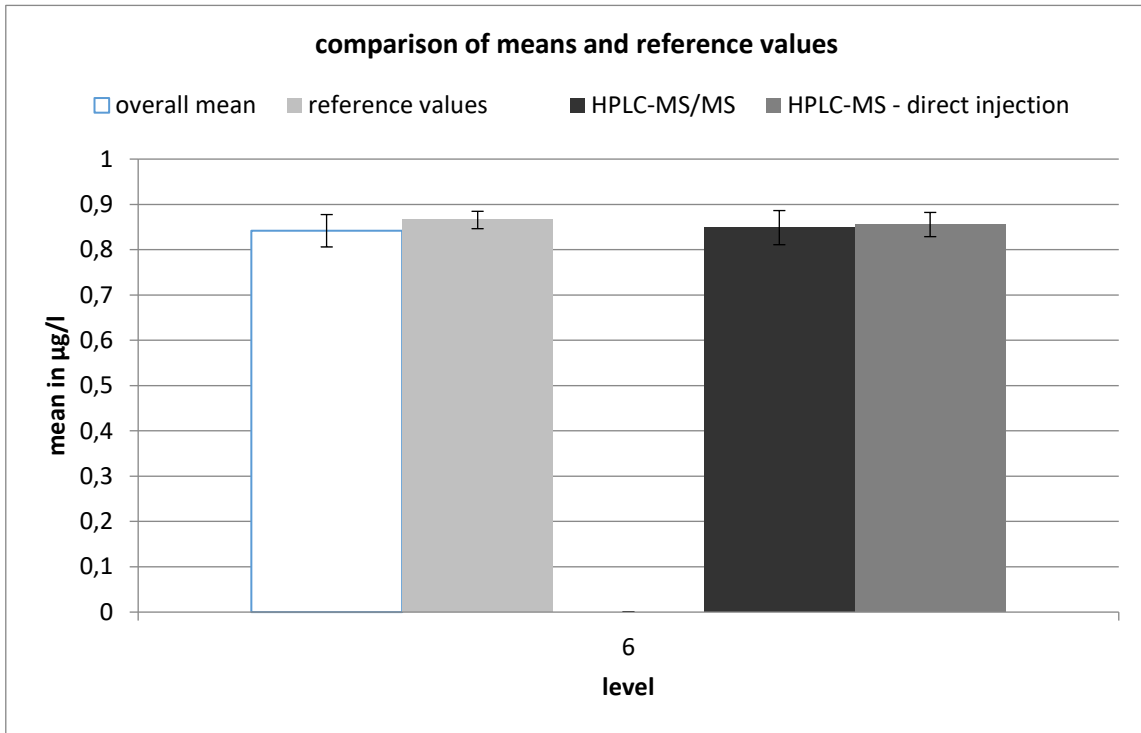
Comparison of means and reference values

level	mean [µg/l]	exp. uncertainty [µg/l]	exp. uncertainty [%]	reference value [µg/l]	exp. uncertainty [µg/l]	exp. uncertainty [%]
1	0,1557	0,0083	5,3	0,1602	0,0103	6,4
2	0,3041	0,0158	5,2	0,3127	0,0114	3,7
3	0,4223	0,0214	5,1	0,4297	0,0127	3,0
4	0,5375	0,0346	6,4	0,5322	0,0141	2,6
5	0,6438	0,0262	4,1	0,6705	0,0161	2,4
6	0,8417	0,0358	4,2	0,8655	0,0192	2,2









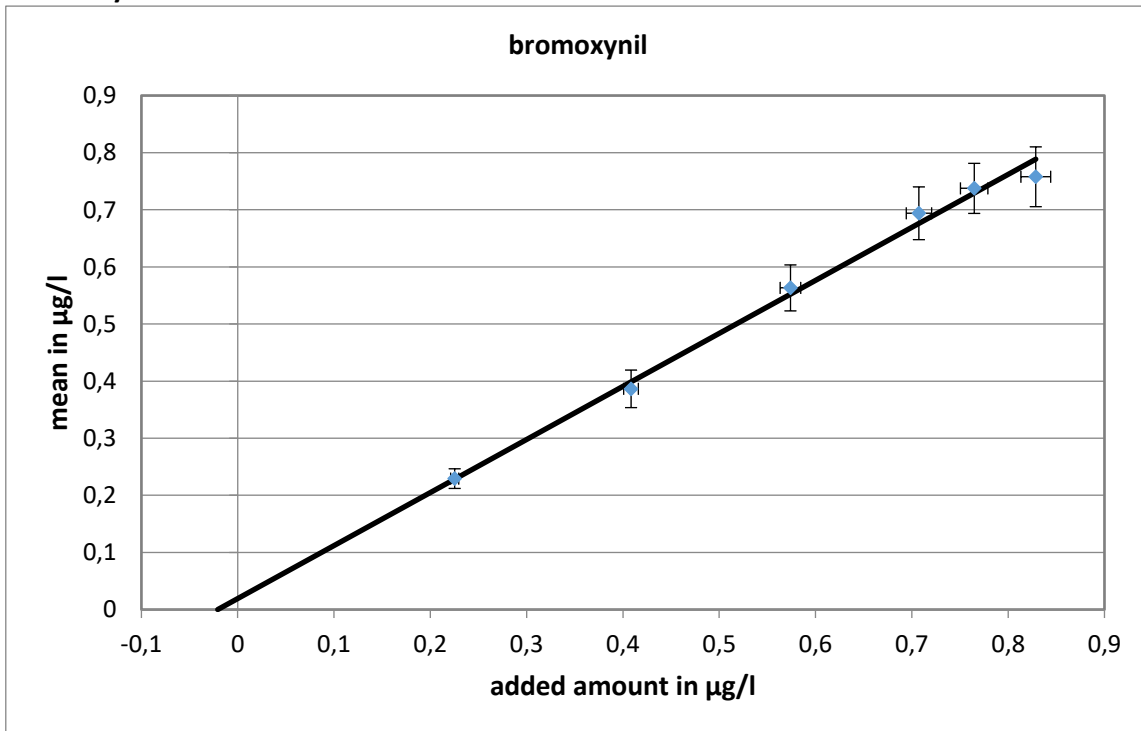
HPLC-MS/MS									
level	robust mean [µg/l]	exp. unc. of the mean [µg/l]	exp. unc. of the mean [%]	robust standard deviation [µg/l]	robust standard deviation [%]	number of results	out below	out above	out [%]
1	0,157	0,009	5,933	0,03	18,99	16	1	2	18,8
2	0,301	0,014	4,688	0,047	15,46	17	3	0	17,6
3	0,421	0,014	3,435	0,052	12,29	20	3	1	20
4	0,544	0,026	4,804	0,084	15,37	16	2	0	12,5
5	0,593	0,031	5,19	0,089	14,97	13	2	0	15,4
6	0,849	0,038	4,439	0,124	14,64	17	2	1	17,6

HPLC-MS - direct injection									
level	robust mean [µg/l]	exp. unc. of the mean [µg/l]	exp. unc. of the mean [%]	robust standard deviation [µg/l]	robust standard deviation [%]	number of results	out below	out above	out [%]
1	0,156	0,007	4,236	0,017	10,72	10	1	1	20
2	0,296	0,012	4,052	0,03	10,25	10	1	1	20
3	0,414	0,018	4,238	0,047	11,24	11	2	1	27,3
4	0,502	0,023	4,601	0,055	11,04	9	1	0	11,1
5	0,665	0,018	2,684	0,045	6,79	10	1	0	10
6	0,855	0,027	3,127	0,068	7,912	10	2	0	20

bromoxynil

level	assigned value [µg/l]	expanded uncertainty of the assigned value [%]	standard deviation, calculated using robust statistics [µg/l]	standard deviation from variance function [µg/l]	standard deviation for proficiency assessment [µg/l]	standard deviation for proficiency assessment [%]	upper tolerance limit [µg/l]	lower tolerance limit [µg/l]	upper tolerance limit [%]	lower tolerance limit [%]	number of results	out below	out above	out [%]
1	0,2293	7,50	0,0351	0,0389	0,0389	16,96	0,3148	0,1570	37,31	-31,51	26	0	2	7,7
2	0,3865	8,52	0,0697	0,0598	0,0598	15,46	0,5167	0,2748	33,70	-28,89	28	2	1	10,7
3	0,5632	7,15	0,0852	0,0815	0,0815	14,46	0,7396	0,4104	31,34	-27,13	28	1	1	7,1
4	0,6938	6,65	0,0977	0,0967	0,0967	13,94	0,9027	0,5121	30,10	-26,20	28	1	1	7,1
5	0,7375	5,94	0,0894	0,1017	0,1017	13,79	0,9569	0,5462	29,75	-25,93	26	2	0	7,4
6	0,7578	6,91	0,1047	0,1040	0,1040	13,72	0,9820	0,5621	29,60	-25,81	25	1	2	12,0
sum											161	7	7	8,7

Recovery and matrix content

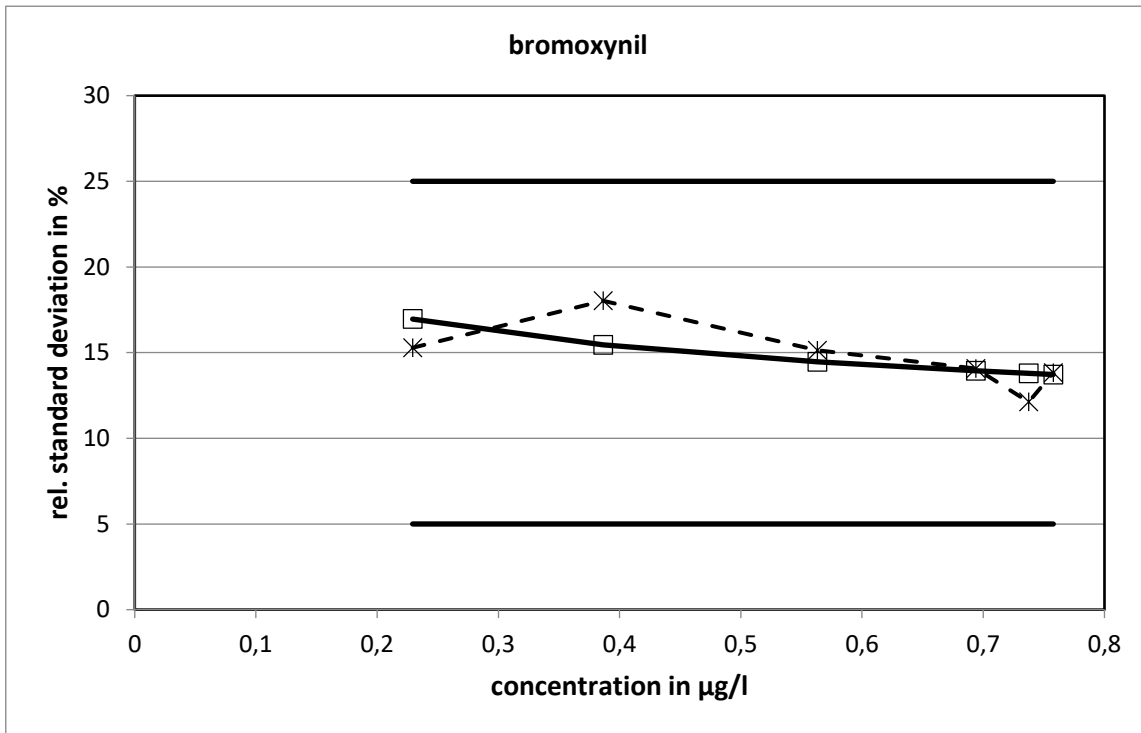


slope of the regression: 0,928; recovery rate: 92,8 %

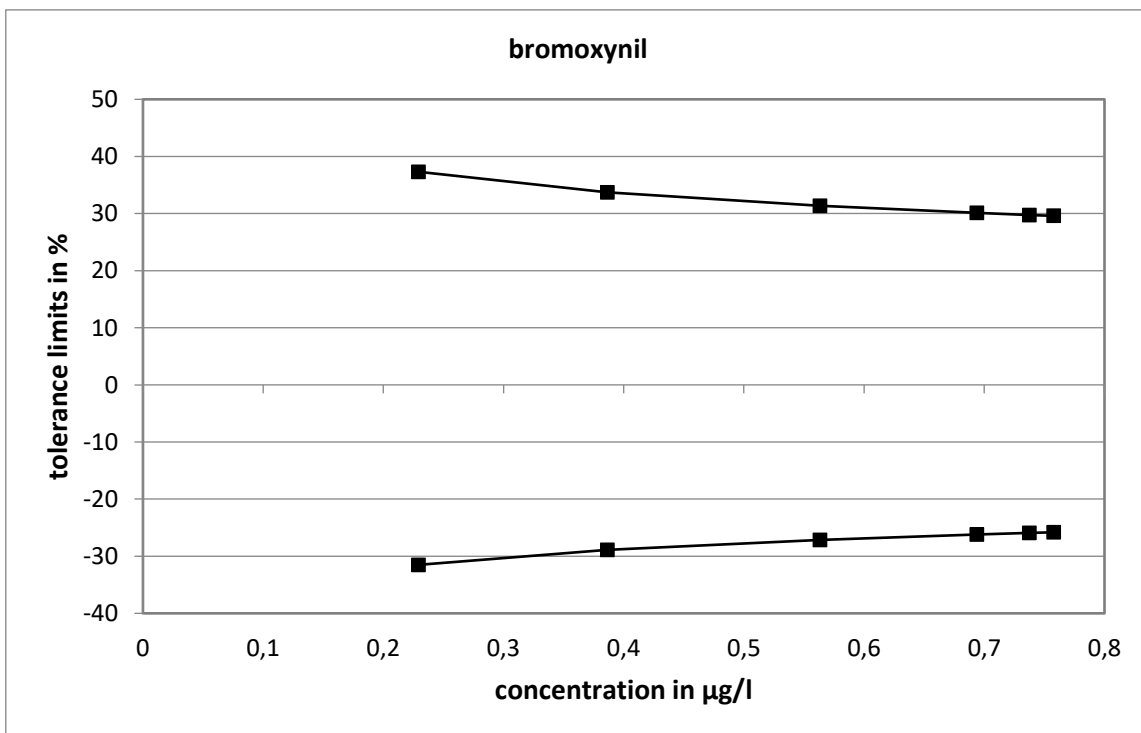
neg. x-axis intercept corresponds to the matrix content: 0,021 µg/l

expanded uncertainty of the matrix content: 0,021 µg/l = 100 %

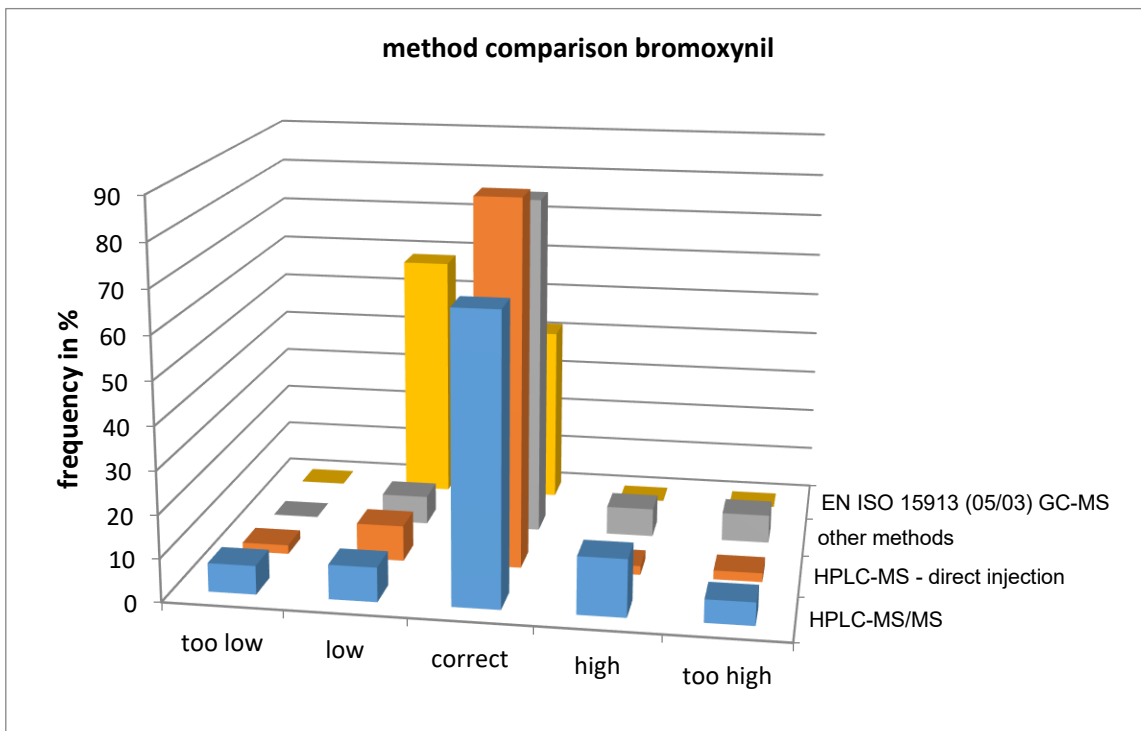
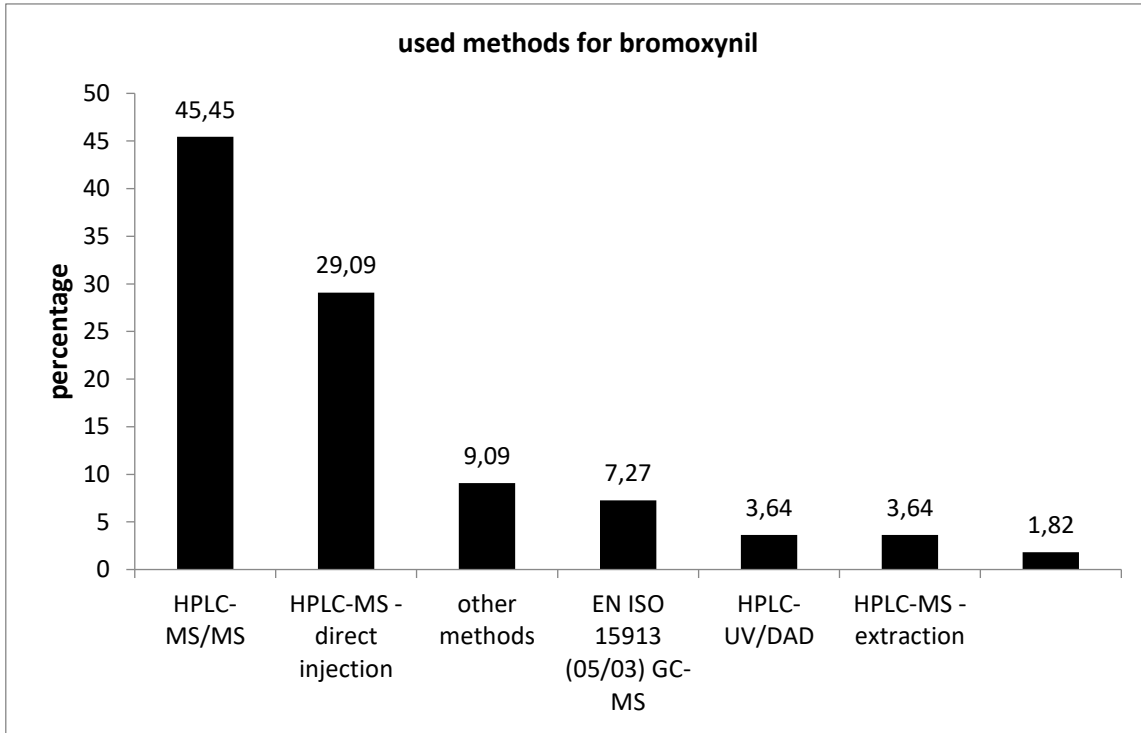
Relative standard deviation and tolerance limits



The relative standard deviations calculated with the variance function did not reach the limits.



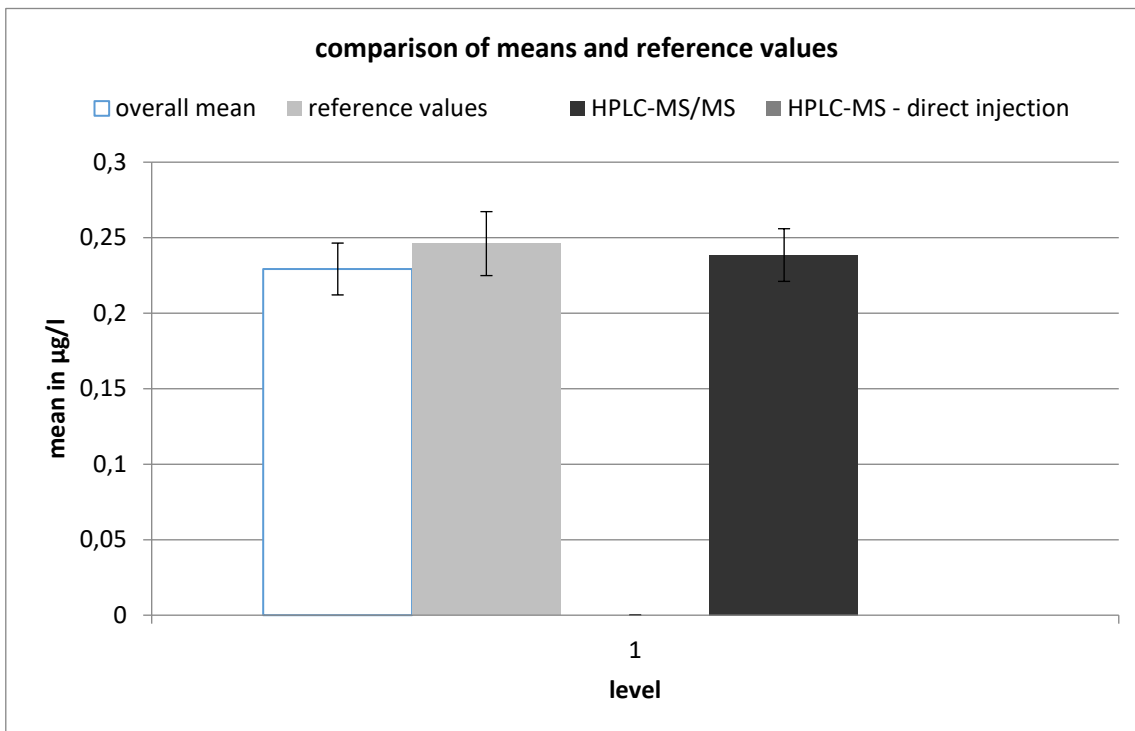
Method specific evaluation

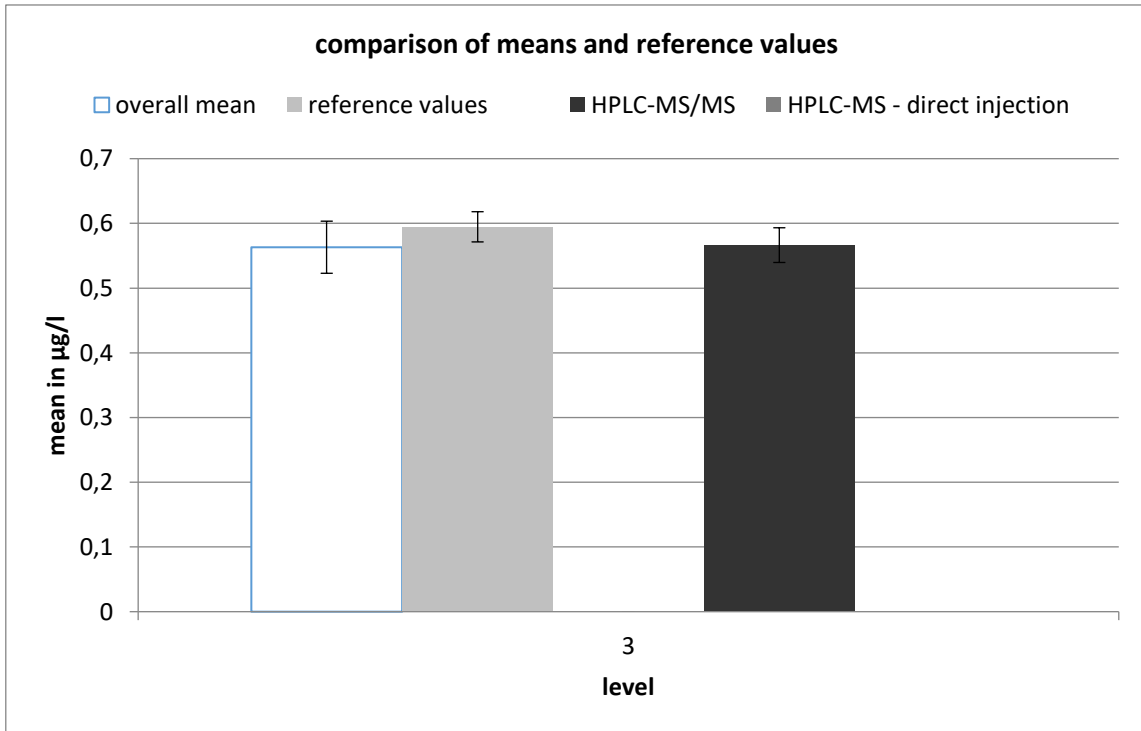
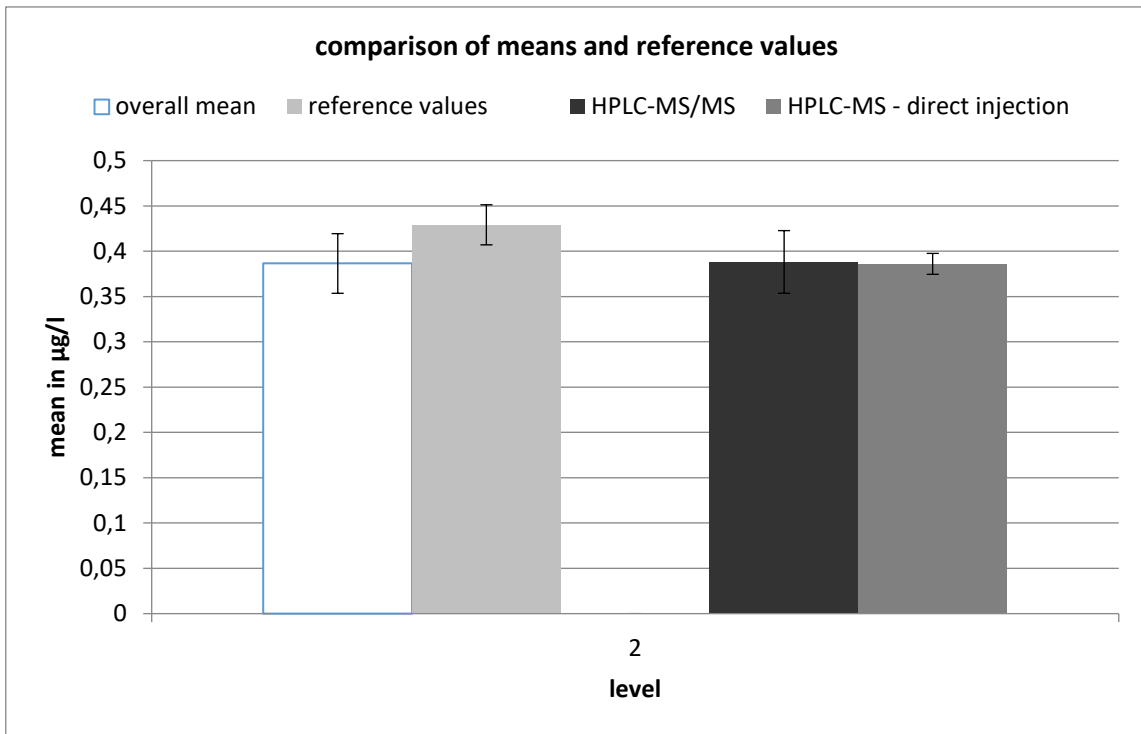


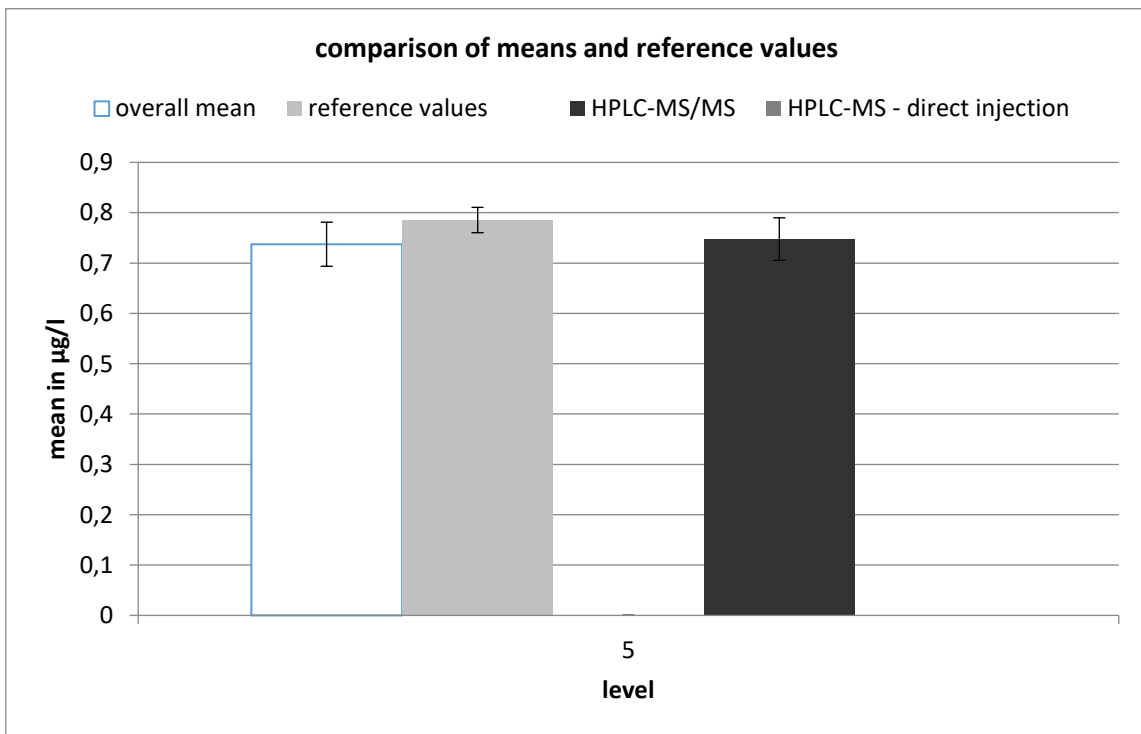
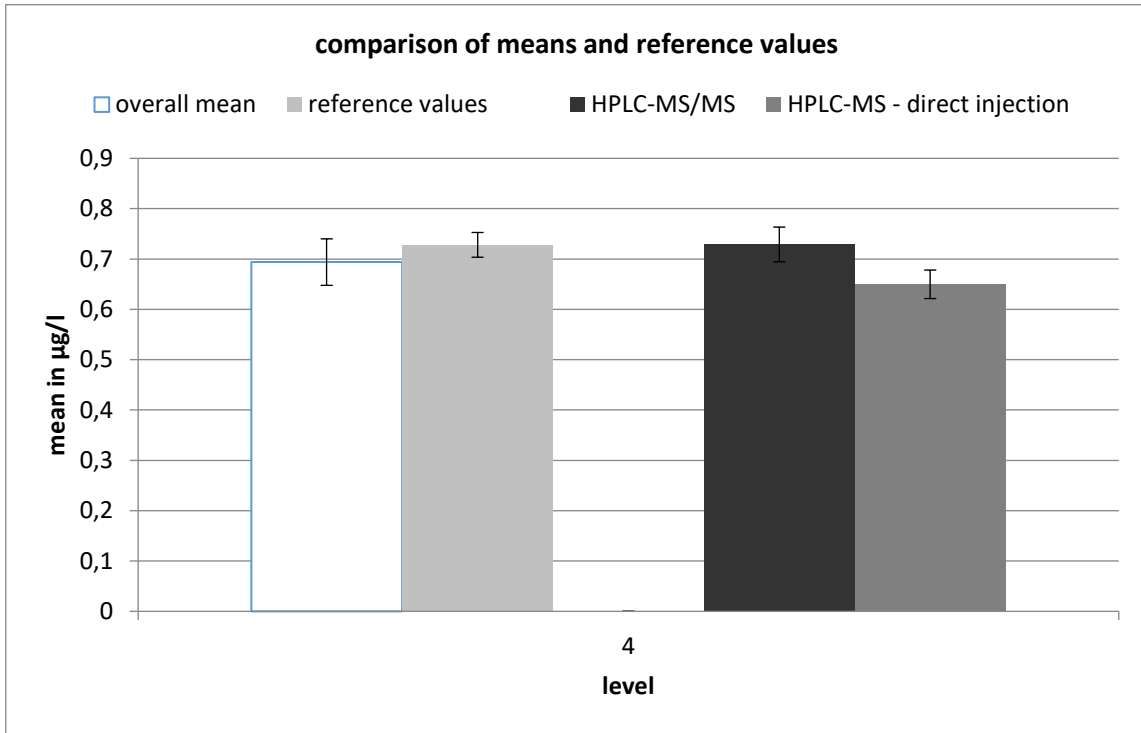
The values determined with HPLC-MS-direct injection showed the closest statistical distribution.

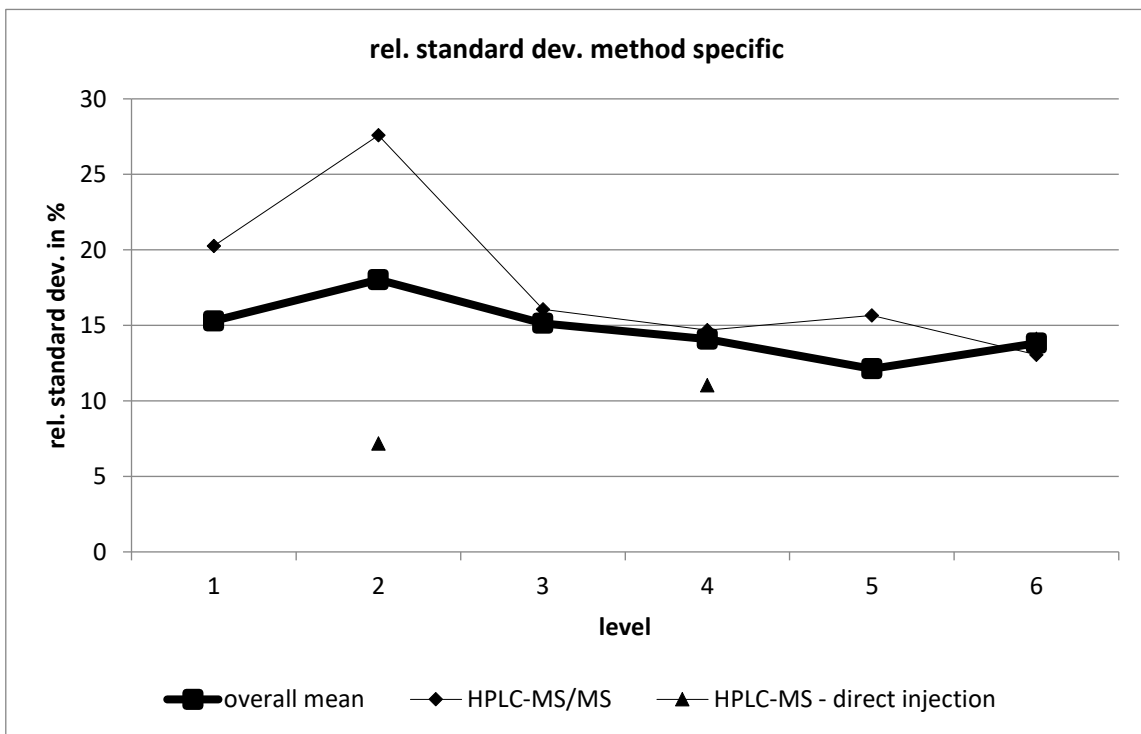
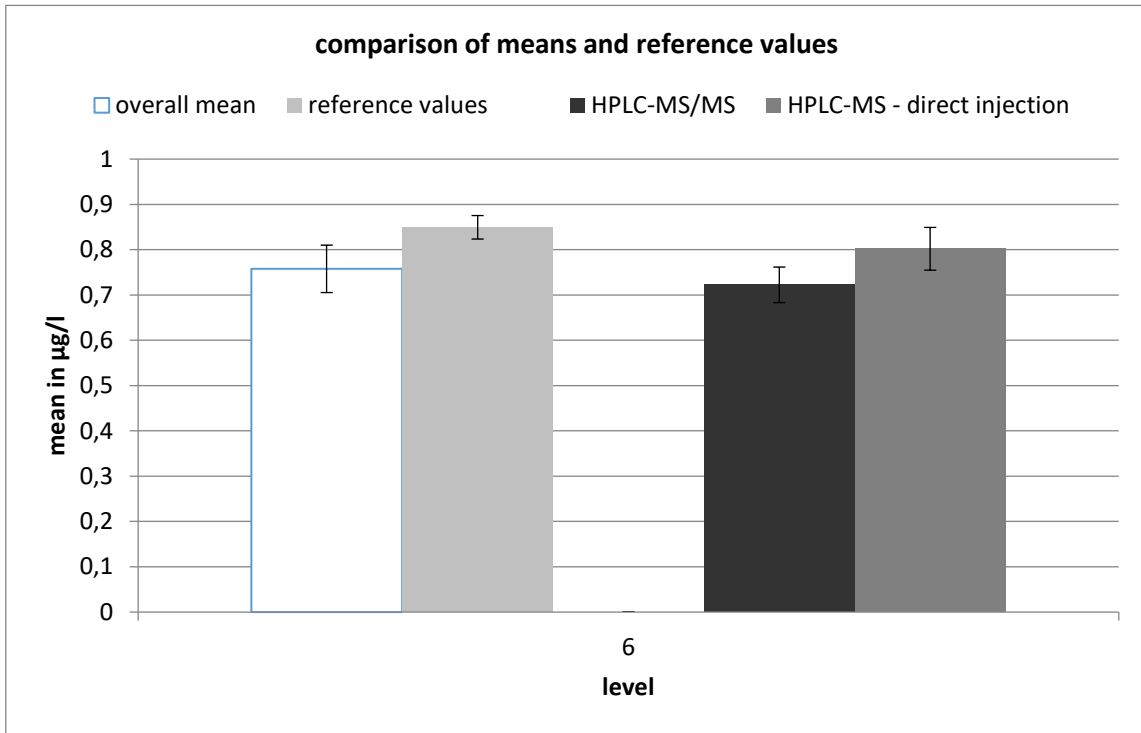
Comparison of means and reference values

level	mean [µg/l]	exp. uncertainty [µg/l]	exp. uncertainty [%]	reference value [µg/l]	exp. uncertainty [µg/l]	exp. uncertainty [%]
1	0,2293	0,0172	7,5	0,2461	0,0212	8,6
2	0,3865	0,0329	8,5	0,4291	0,0221	5,2
3	0,5632	0,0403	7,1	0,5947	0,0234	3,9
4	0,6938	0,0462	6,7	0,7281	0,0246	3,4
5	0,7375	0,0438	5,9	0,7855	0,0252	3,2
6	0,7578	0,0524	6,9	0,8494	0,0259	3,0









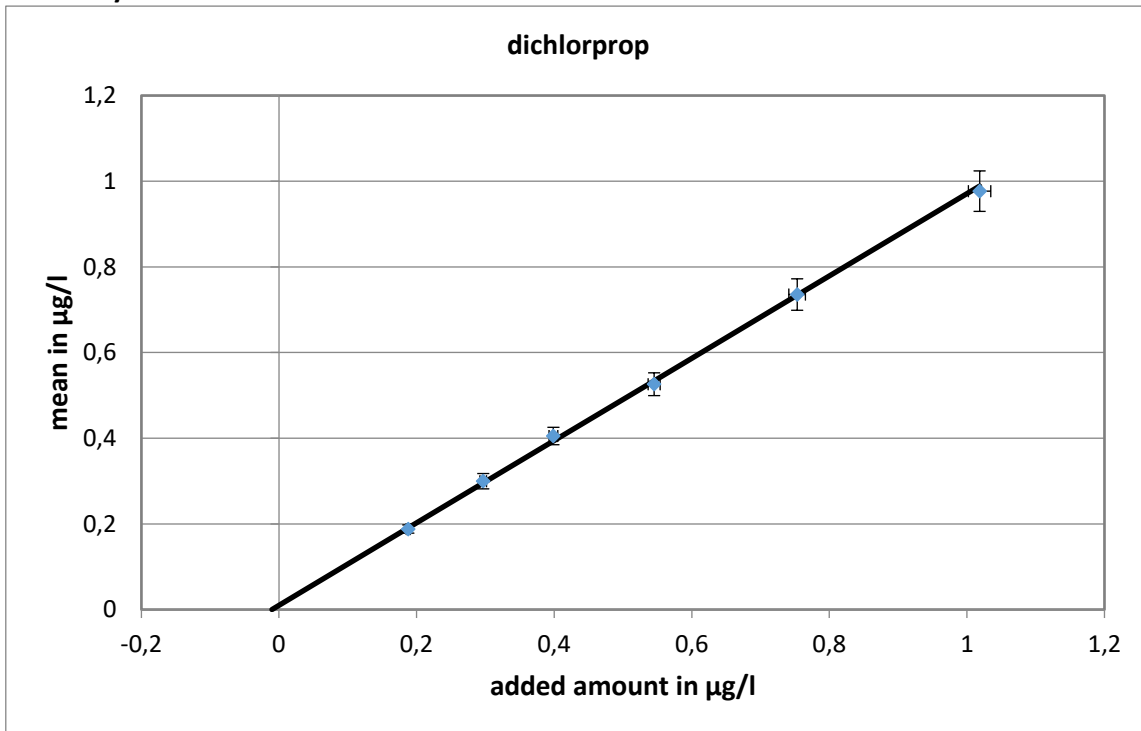
HPLC-MS/MS									
level	robust mean [µg/l]	exp. unc. of the mean [µg/l]	exp. unc. of the mean [%]	robust standard deviation [µg/l]	robust standard deviation [%]	number of results	out below	out above	out [%]
1	0,238	0,017	7,309	0,048	20,25	12	0	2	16,7
2	0,388	0,035	8,903	0,107	27,58	15	1	1	13,3
3	0,566	0,027	4,733	0,091	16,06	18	0	1	5,56
4	0,729	0,035	4,741	0,107	14,69	15	1	0	6,67
5	0,748	0,042	5,65	0,117	15,66	12	1	0	8,33
6	0,722	0,039	5,44	0,094	13,06	9	1	0	11,1

HPLC-MS - direct injection									
level	robust mean [µg/l]	exp. unc. of the mean [µg/l]	exp. unc. of the mean [%]	robust standard deviation [µg/l]	robust standard deviation [%]	number of results	out below	out above	out [%]
2	0,386	0,012	2,994	0,028	7,185	9	0	1	11,1
4	0,65	0,028	4,365	0,072	11,04	10	0	0	0
6	0,802	0,047	5,88	0,113	14,11	9	0	0	0

dichlorprop

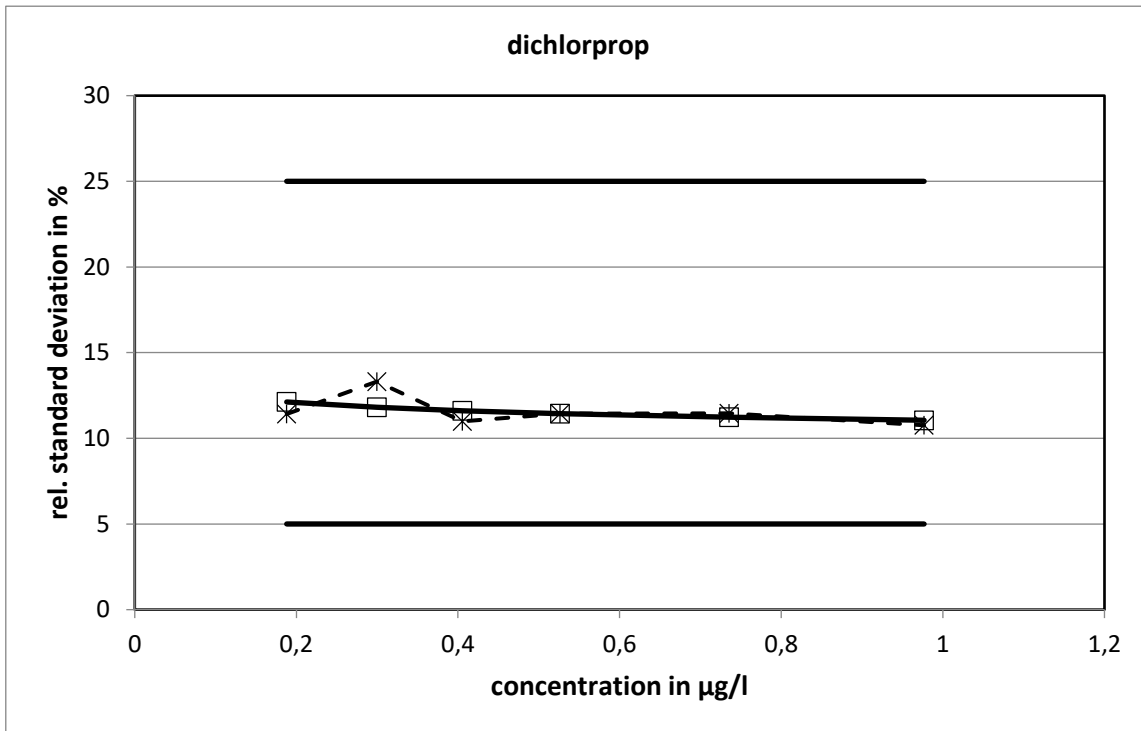
level	assigned value [µg/l]	expanded uncertainty of the assigned value [%]	standard deviation, calculated using robust statistics [µg/l]	standard deviation from variance function [µg/l]	standard deviation for proficiency assessment [µg/l]	standard deviation for proficiency assessment [%]	upper tolerance limit [µg/l]	lower tolerance limit [µg/l]	upper tolerance limit [%]	lower tolerance limit [%]	number of results	out below	out above	out [%]
1	0,1880	5,05	0,0215	0,0228	0,0228	12,12	0,2367	0,1449	25,89	-22,95	32	2	2	12,1
2	0,2996	5,98	0,0399	0,0354	0,0354	11,81	0,3751	0,2326	25,18	-22,38	31	2	3	16,1
3	0,4052	5,02	0,0445	0,0470	0,0470	11,61	0,5054	0,3159	24,73	-22,03	30	3	2	16,1
4	0,5261	5,05	0,0601	0,0602	0,0602	11,44	0,6542	0,4118	24,35	-21,72	32	3	2	15,2
5	0,7354	4,99	0,0843	0,0826	0,0826	11,23	0,9109	0,5785	23,87	-21,34	33	2	2	12,1
6	0,9768	4,83	0,1051	0,1080	0,1080	11,05	1,206	0,7715	23,47	-21,02	31	1	0	3,2
sum											189	13	11	12,7

Recovery and matrix content

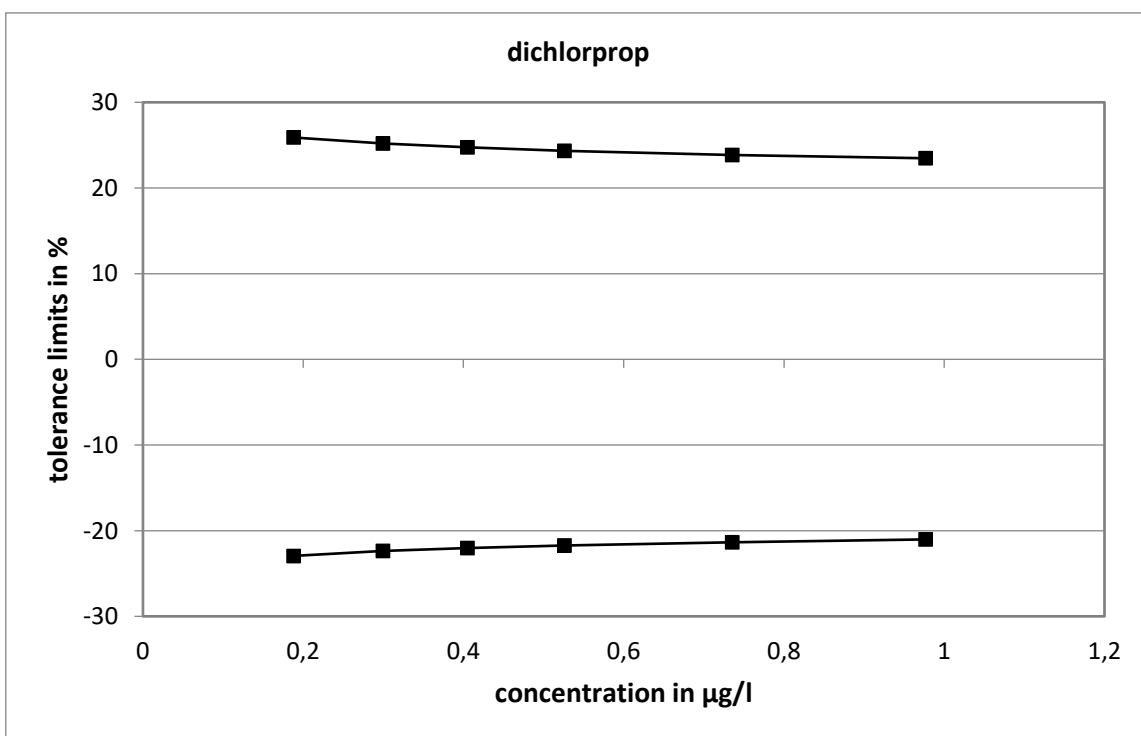


slope of the regression: 0,961; recovery rate: 96,1 %
 neg. x-axis intercept corresponds to the matrix content: 0,01 µg/l
 expanded uncertainty of the matrix content: 0,01 µg/l = 100 %

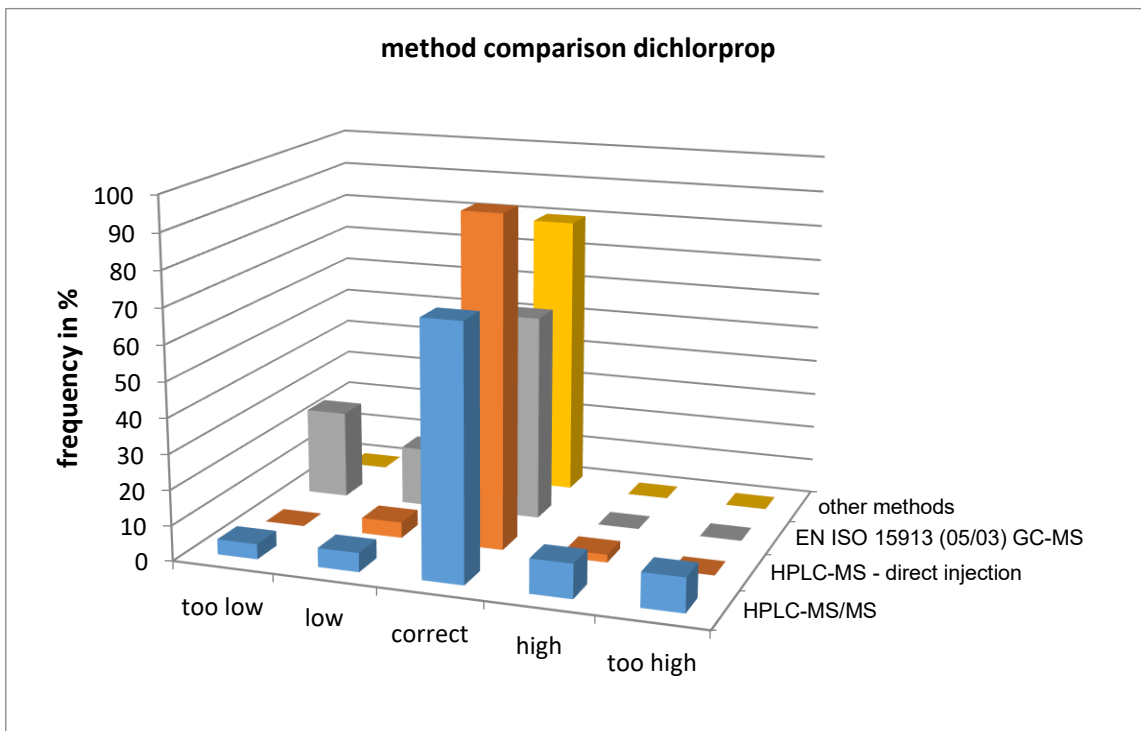
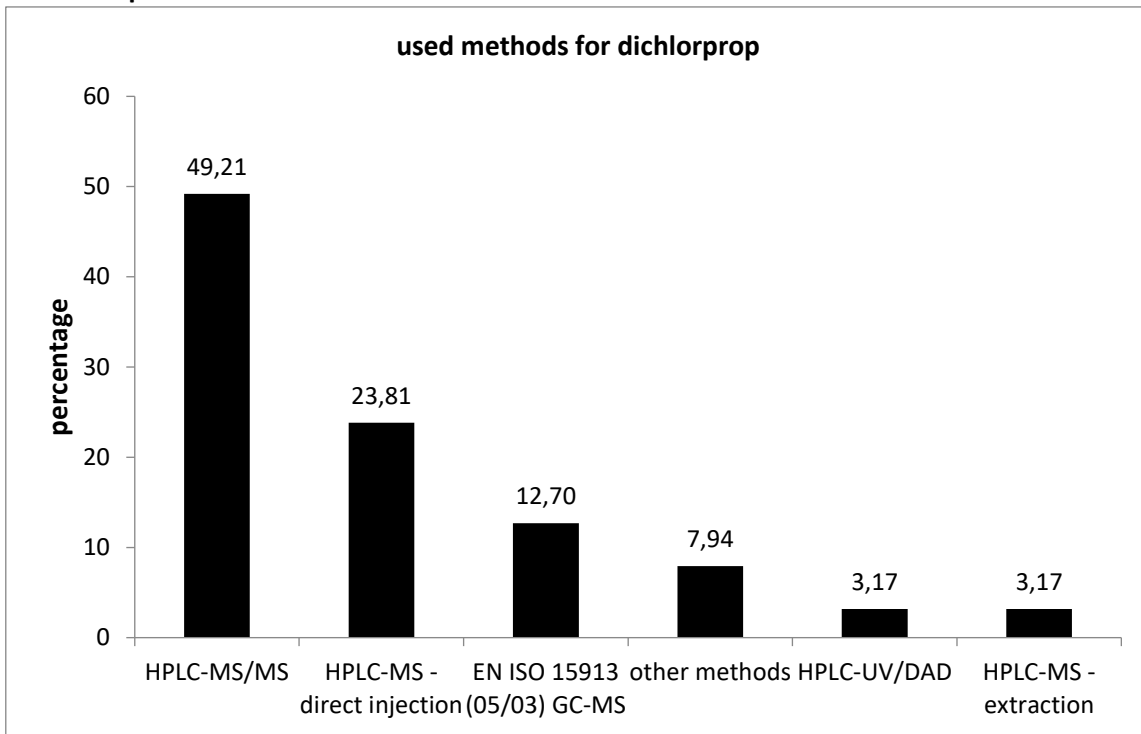
Relative standard deviation and tolerance limits



The relative standard deviations calculated with the variance function did not reach the limits.



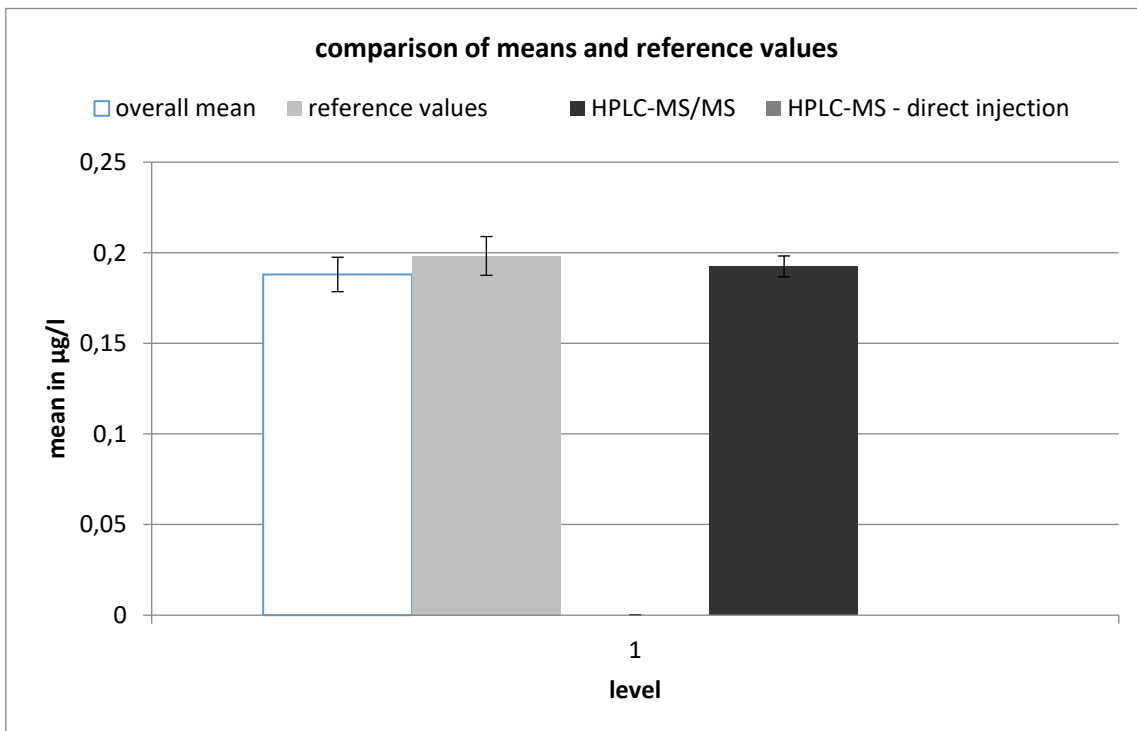
Method specific evaluation

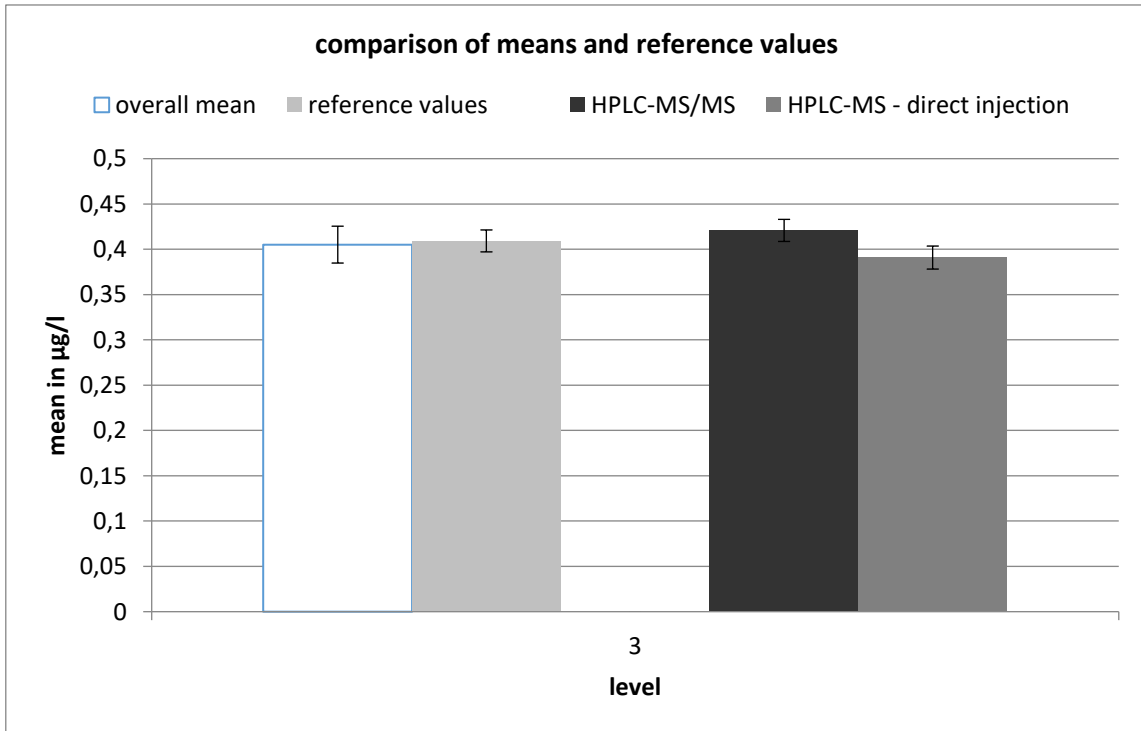
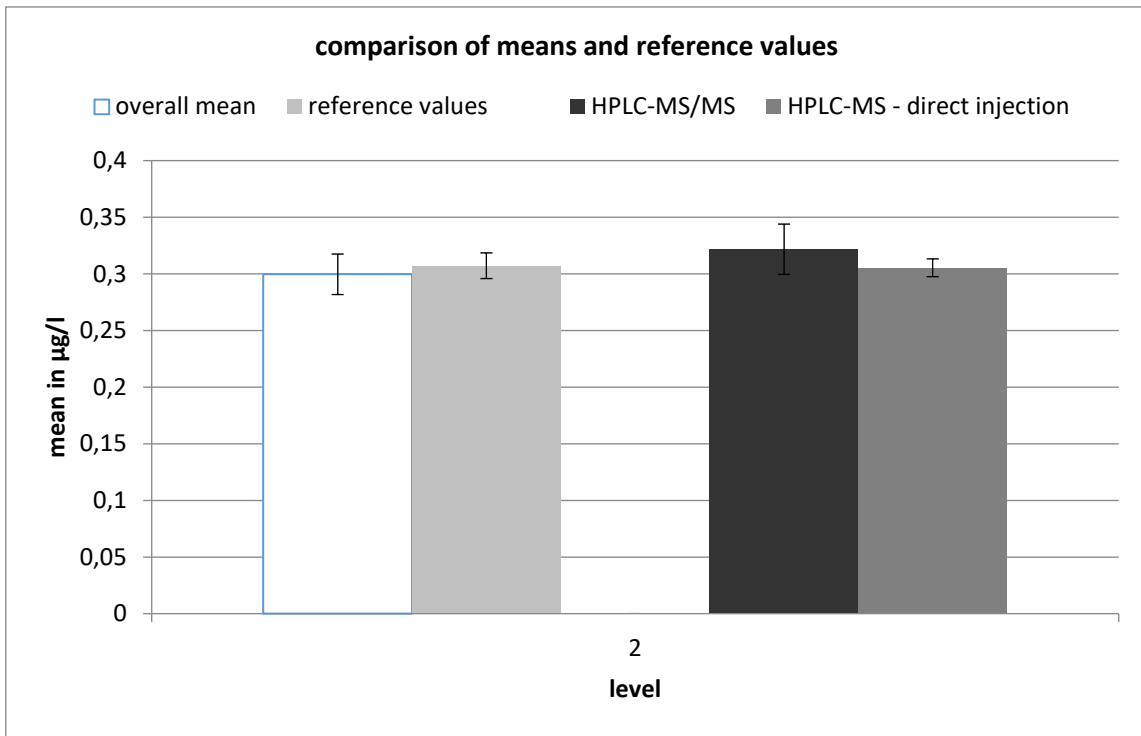


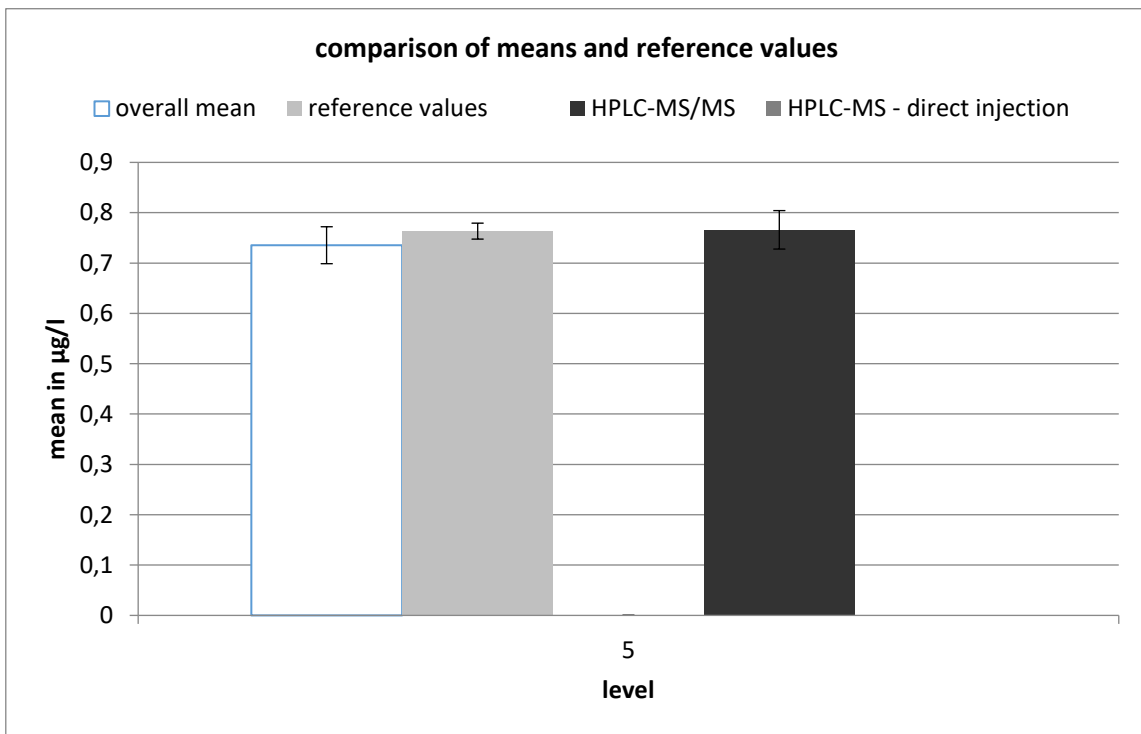
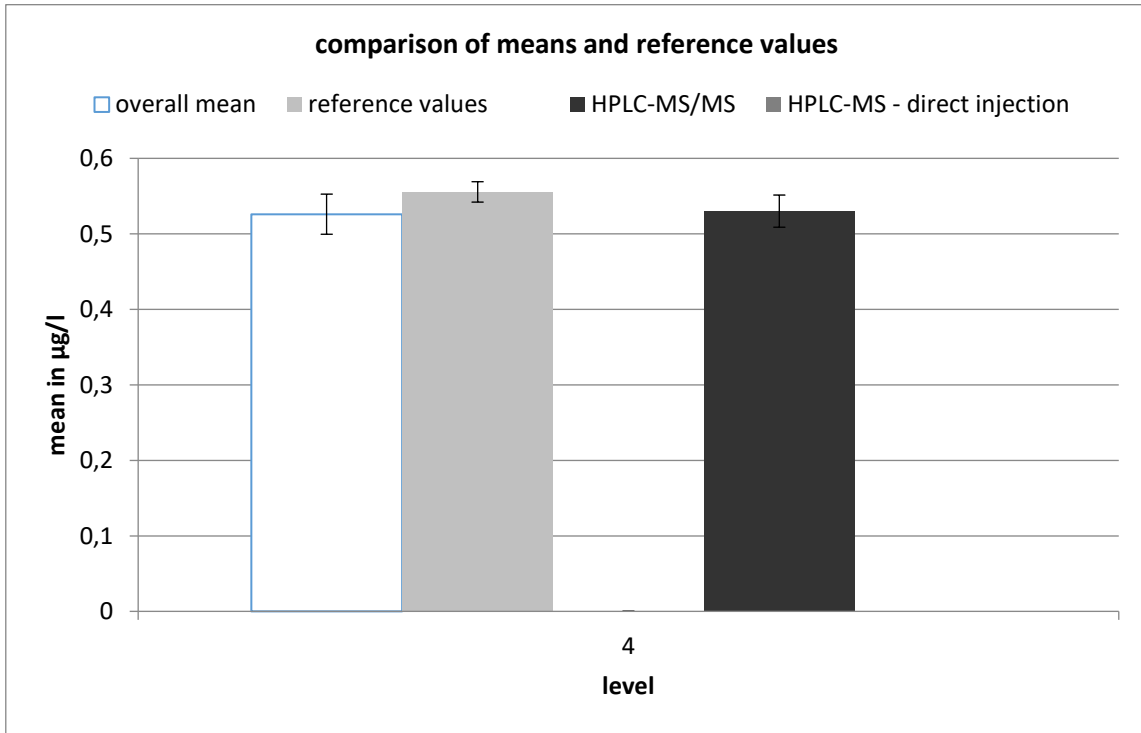
The values measured using GC-MS showed a slight tendency for too low values.

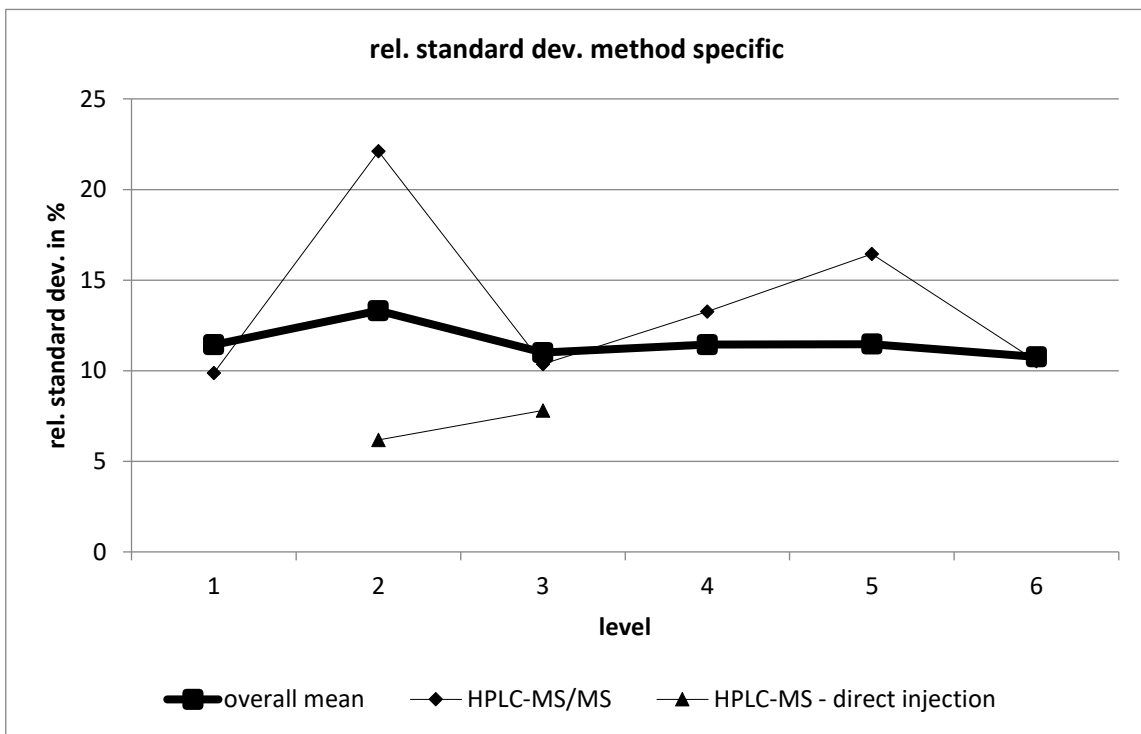
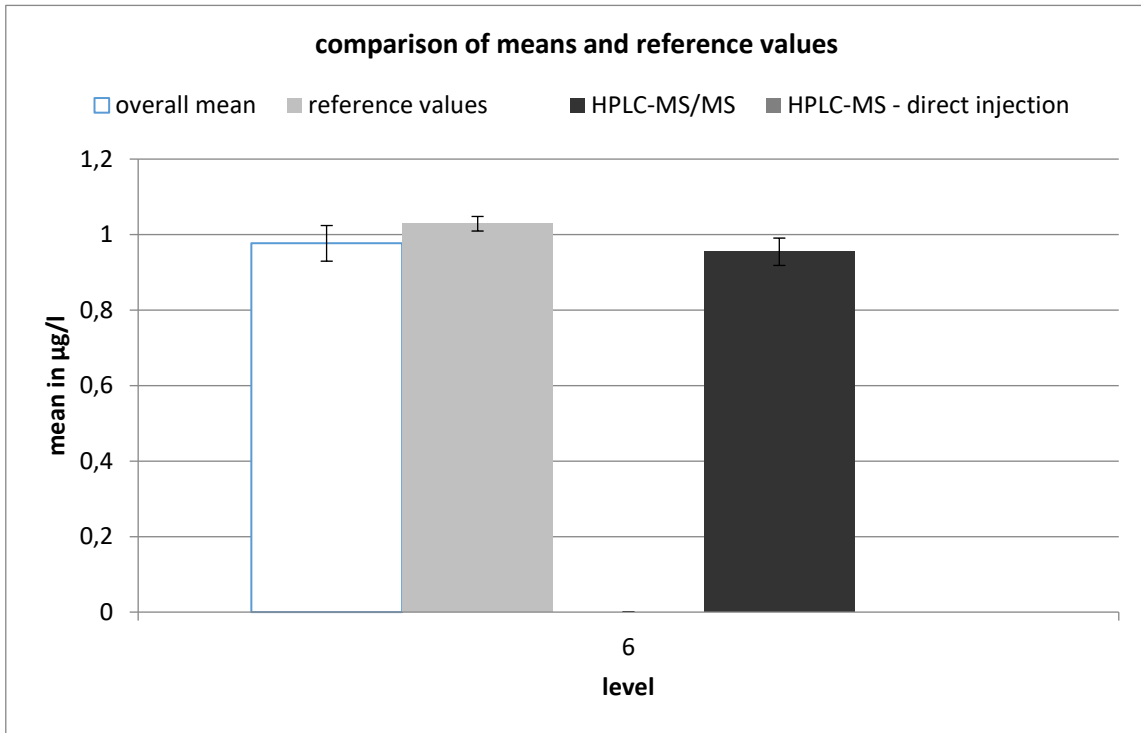
Comparison of means and reference values

level	mean [µg/l]	exp. uncertainty [µg/l]	exp. uncertainty [%]	reference value [µg/l]	exp. uncertainty [µg/l]	exp. uncertainty [%]
1	0,1880	0,0095	5,0	0,1982	0,0107	5,4
2	0,2996	0,0179	6,0	0,3072	0,0113	3,7
3	0,4052	0,0203	5,0	0,4092	0,0121	3,0
4	0,5261	0,0266	5,1	0,5556	0,0135	2,4
5	0,7354	0,0367	5,0	0,7635	0,0158	2,1
6	0,9768	0,0472	4,8	1,0287	0,0193	1,9









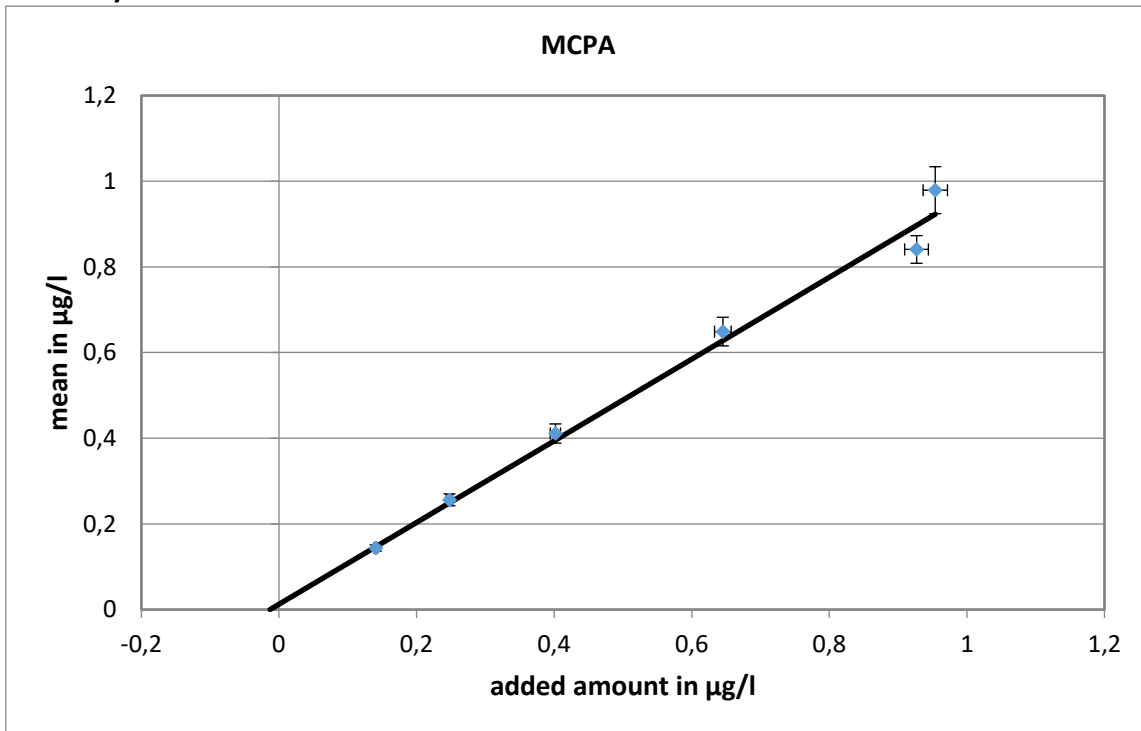
HPLC-MS/MS									
level	robust mean [µg/l]	exp. unc. of the mean [µg/l]	exp. unc. of the mean [%]	robust standard deviation [µg/l]	robust standard deviation [%]	number of results	out below	out above	out [%]
1	0,192	0,006	2,991	0,019	9,865	17	0	2	11,8
2	0,322	0,022	6,908	0,071	22,1	16	0	1	6,25
3	0,421	0,012	2,895	0,044	10,36	20	1	2	15
4	0,53	0,021	4,019	0,07	13,26	17	2	1	17,6
5	0,766	0,038	4,984	0,126	16,44	17	2	0	11,8
6	0,955	0,036	3,796	0,1	10,52	12	1	0	8,33

HPLC-MS - direct injection									
level	robust mean [µg/l]	exp. unc. of the mean [µg/l]	exp. unc. of the mean [%]	robust standard deviation [µg/l]	robust standard deviation [%]	number of results	out below	out above	out [%]
2	0,305	0,008	2,574	0,019	6,177	9	0	1	11,1
3	0,391	0,013	3,253	0,031	7,806	9	0	1	11,1

MCPA

level	assigned value [µg/l]	expanded uncertainty of the assigned value [%]	standard deviation, calculated using robust statistics [µg/l]	standard deviation from variance function [µg/l]	standard deviation for proficiency assessment [µg/l]	standard deviation for proficiency assessment [%]	upper tolerance limit [µg/l]	lower tolerance limit [µg/l]	upper tolerance limit [%]	lower tolerance limit [%]	number of results	out below	out above	out [%]	
1	0,1438	5,01	0,0166	0,0174	0,0174	12,12	0,1810	0,1108	25,89	-22,94	33	3	2	15,2	
2	0,2561	5,40	0,0318	0,0303	0,0303	11,84	0,3207	0,1986	25,25	-22,44	33	3	1	12,1	
3	0,4110	5,44	0,0513	0,0477	0,0477	11,62	0,5126	0,3204	24,75	-22,04	33	3	2	15,2	
4	0,6489	5,16	0,0757	0,0740	0,0740	11,41	0,8064	0,5084	24,27	-21,66	32	1	2	9,4	
5	0,8407	3,84	0,0741	0,0949	0,0949	11,29	1,042	0,6604	24,00	-21,44	33	1	1	6,1	
6	0,9791	5,60	0,1278	0,1098	0,1098	11,22	1,212	0,7703	23,84	-21,32	34	3	1	11,8	
											sum	198	14	9	11,6

Recovery and matrix content

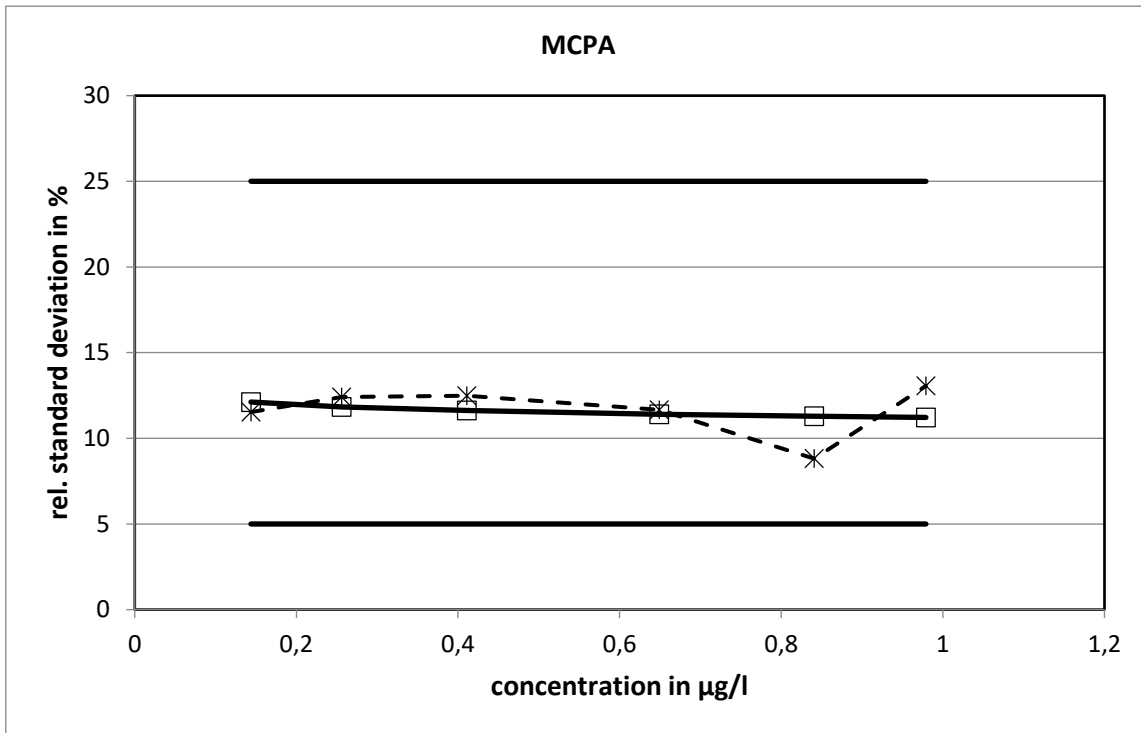


slope of the regression: 0,954; recovery rate: 95,4 %

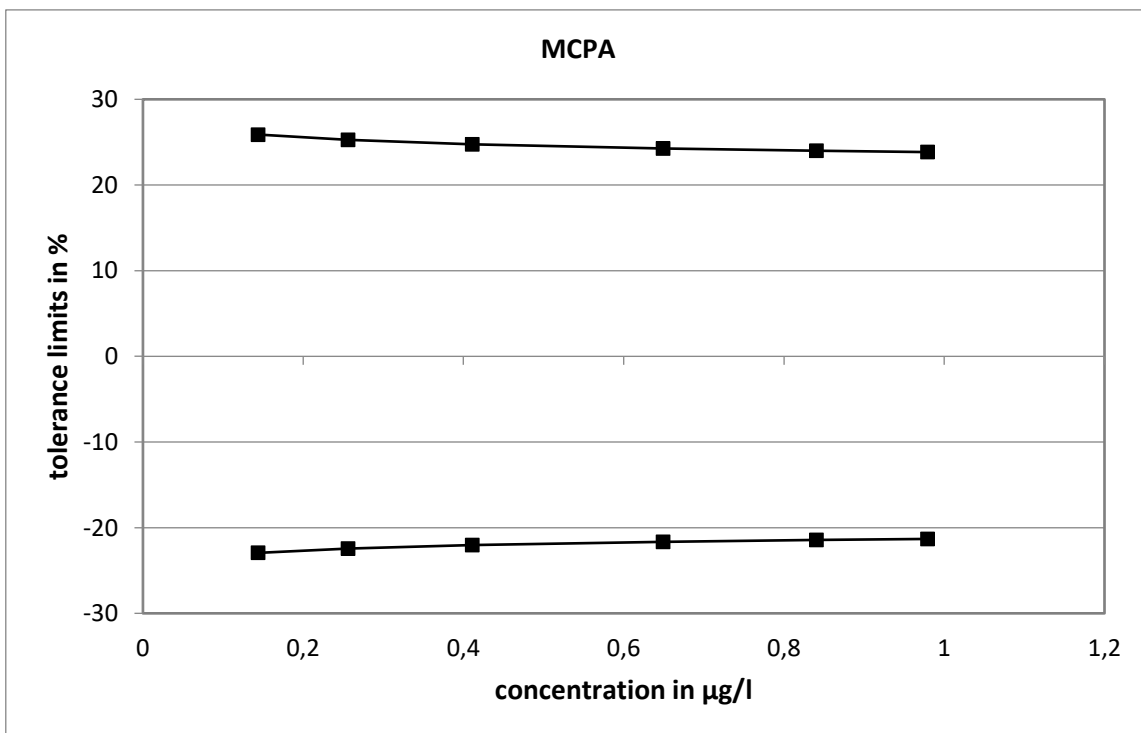
neg. x-axis intercept corresponds to the matrix content: 0,013 µg/l

expanded uncertainty of the matrix content: 0,011 µg/l = 85 %

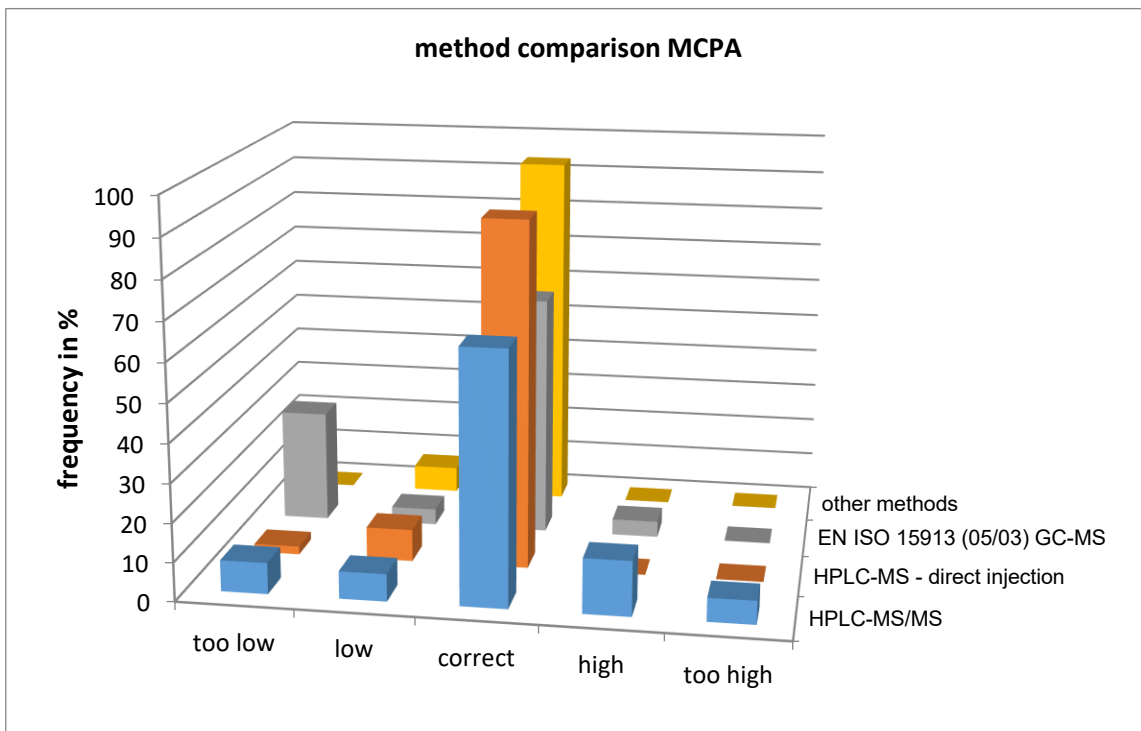
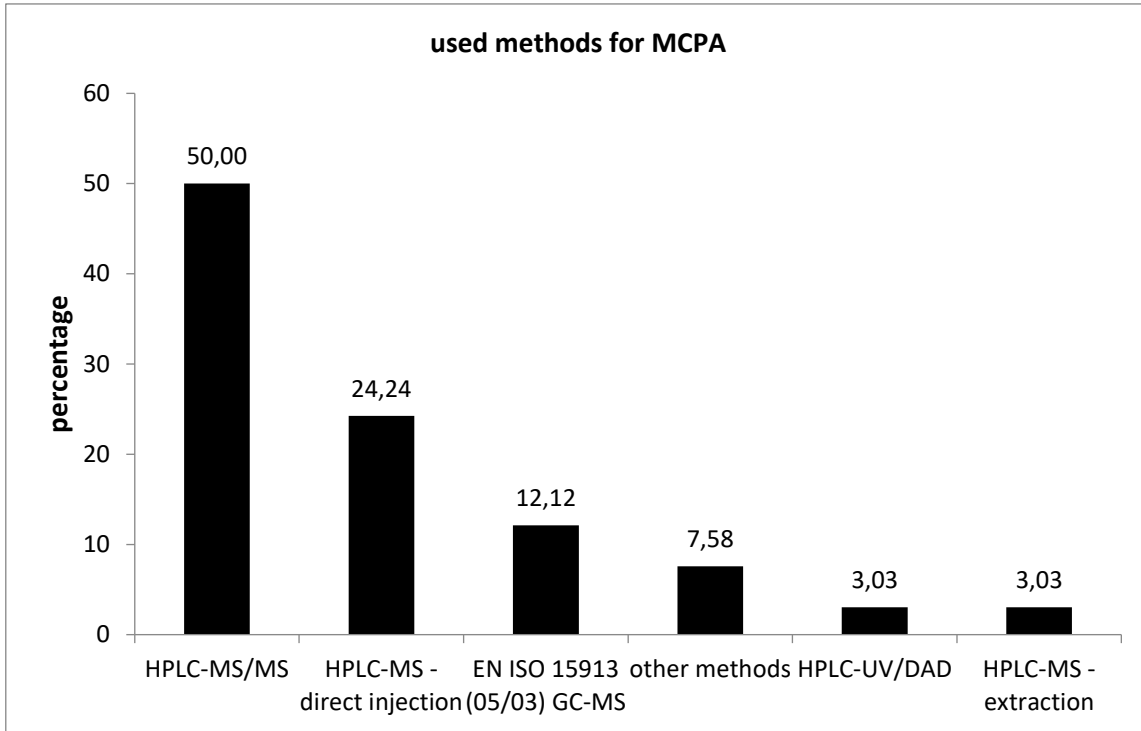
Relative standard deviation and tolerance limits



The relative standard deviations calculated with the variance function did not reach the limits.



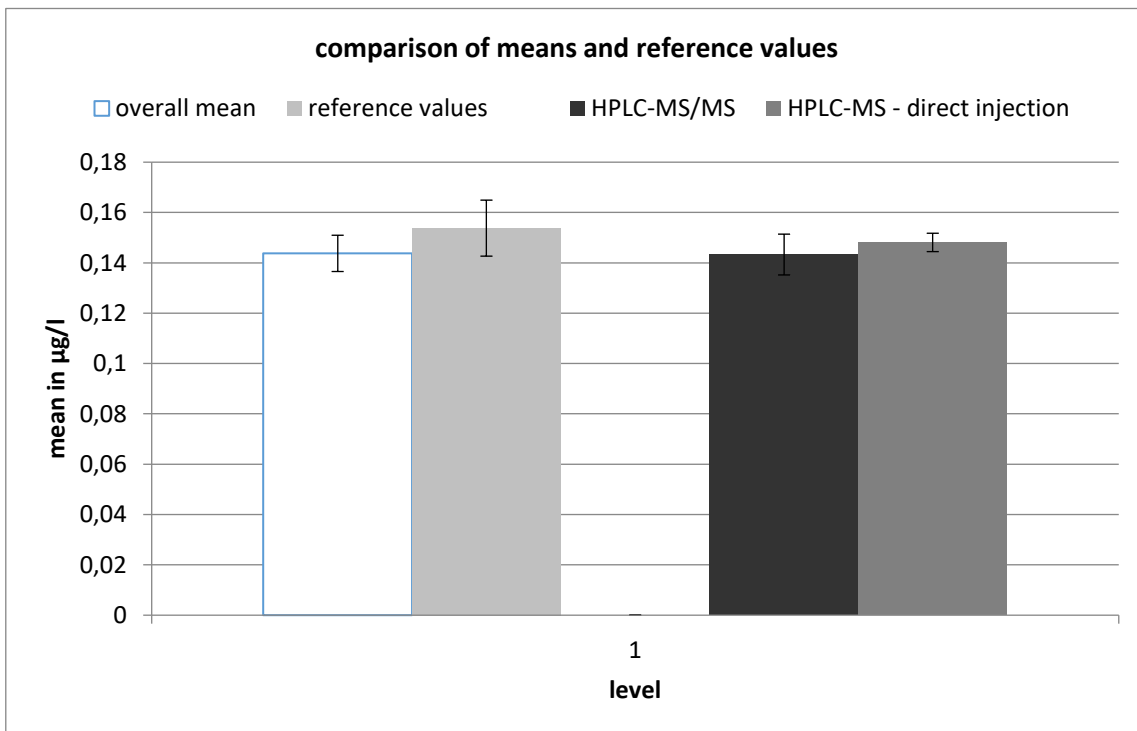
Method specific evaluation

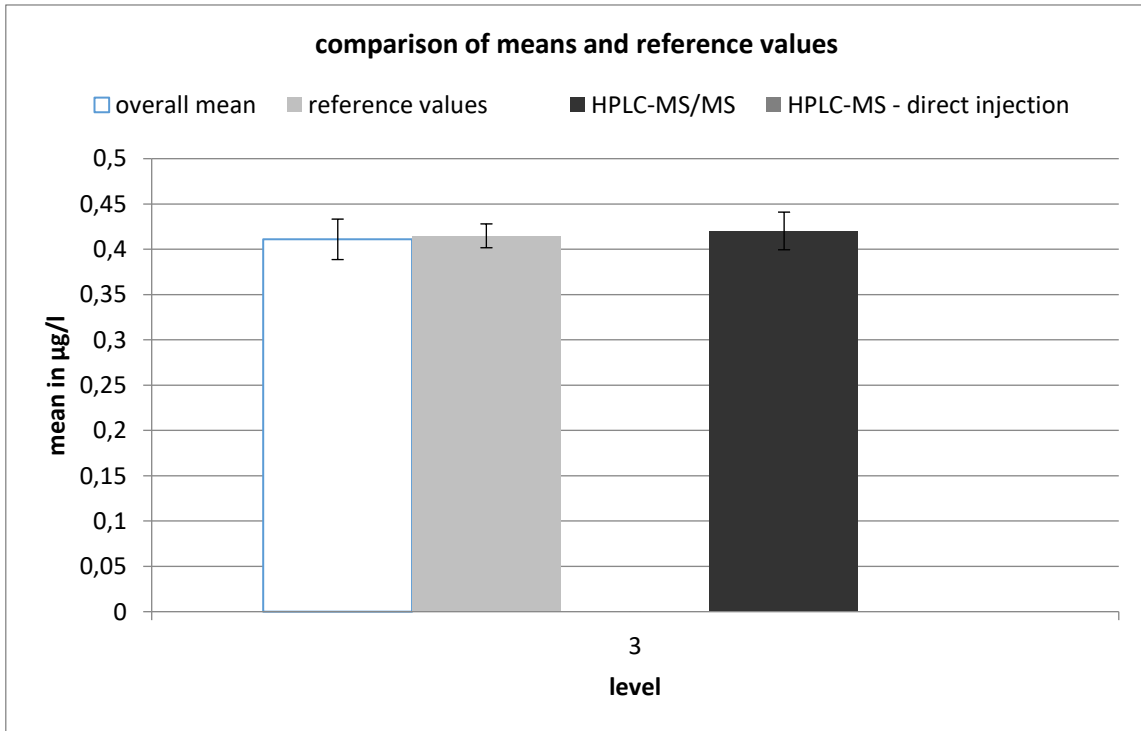
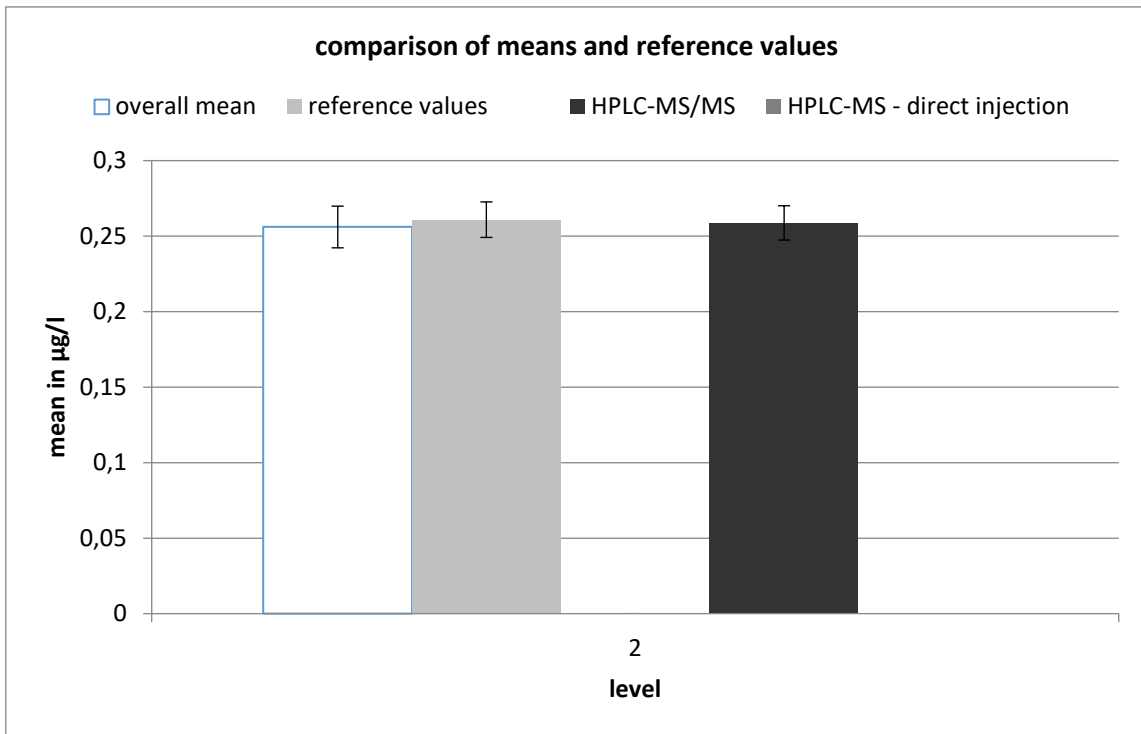


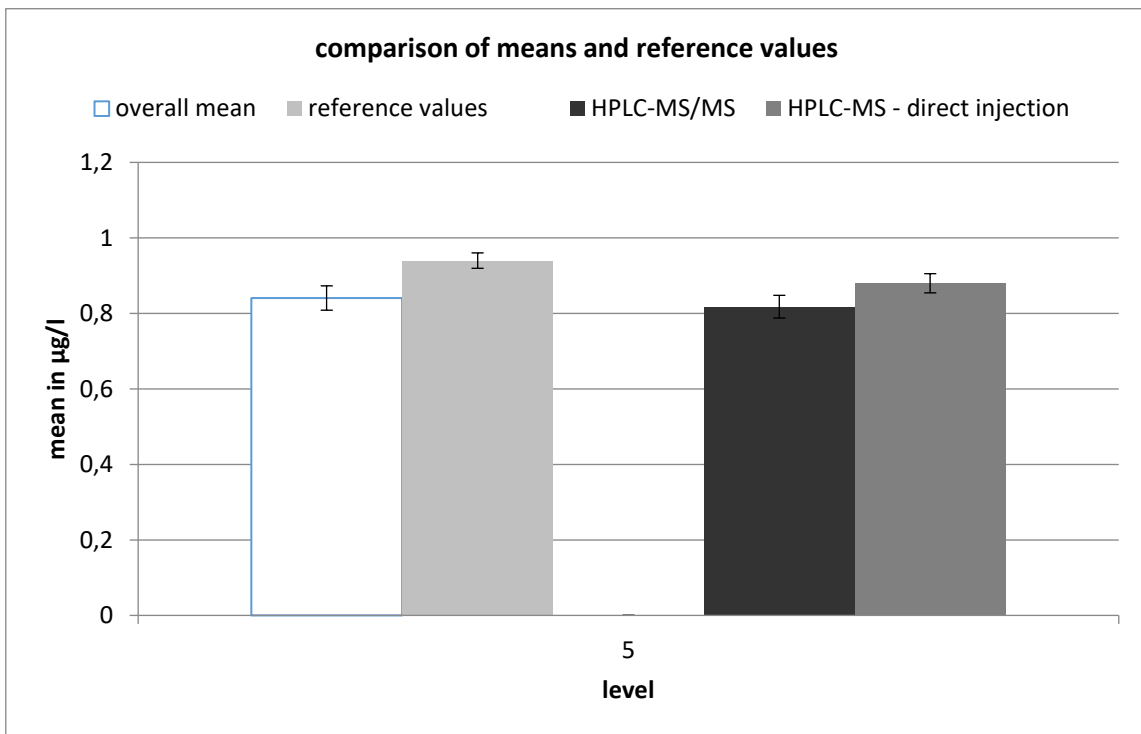
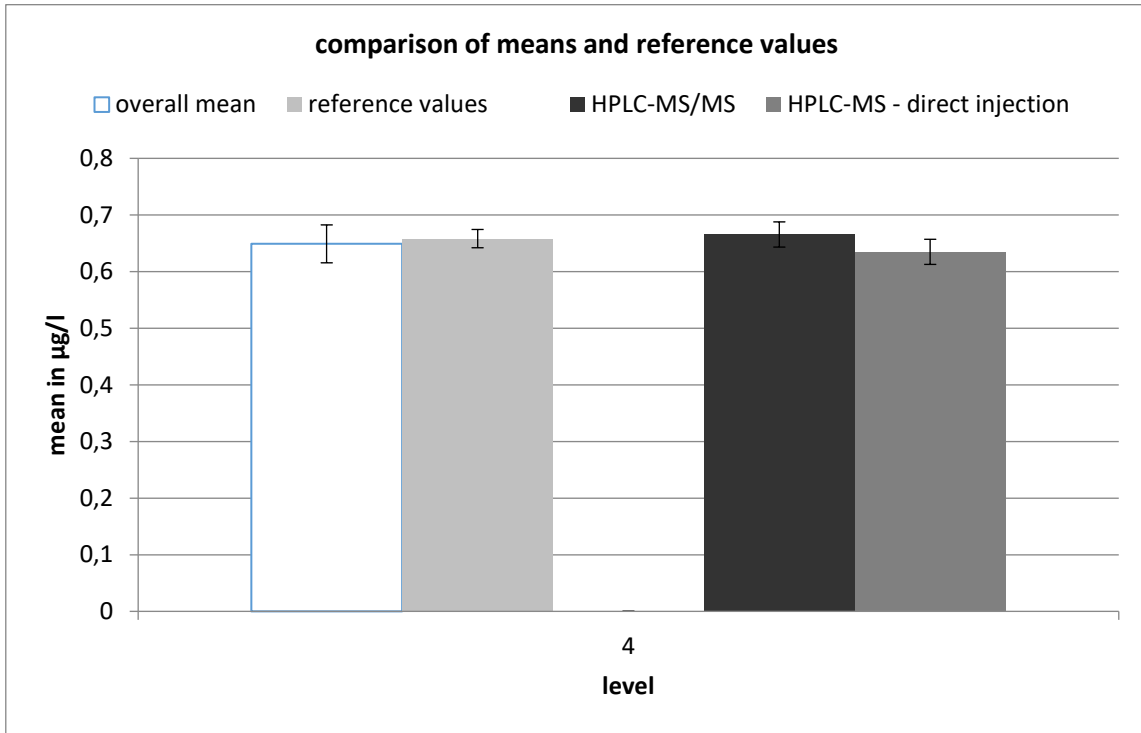
The values measured using GC-MS showed a slight tendency for too low values.

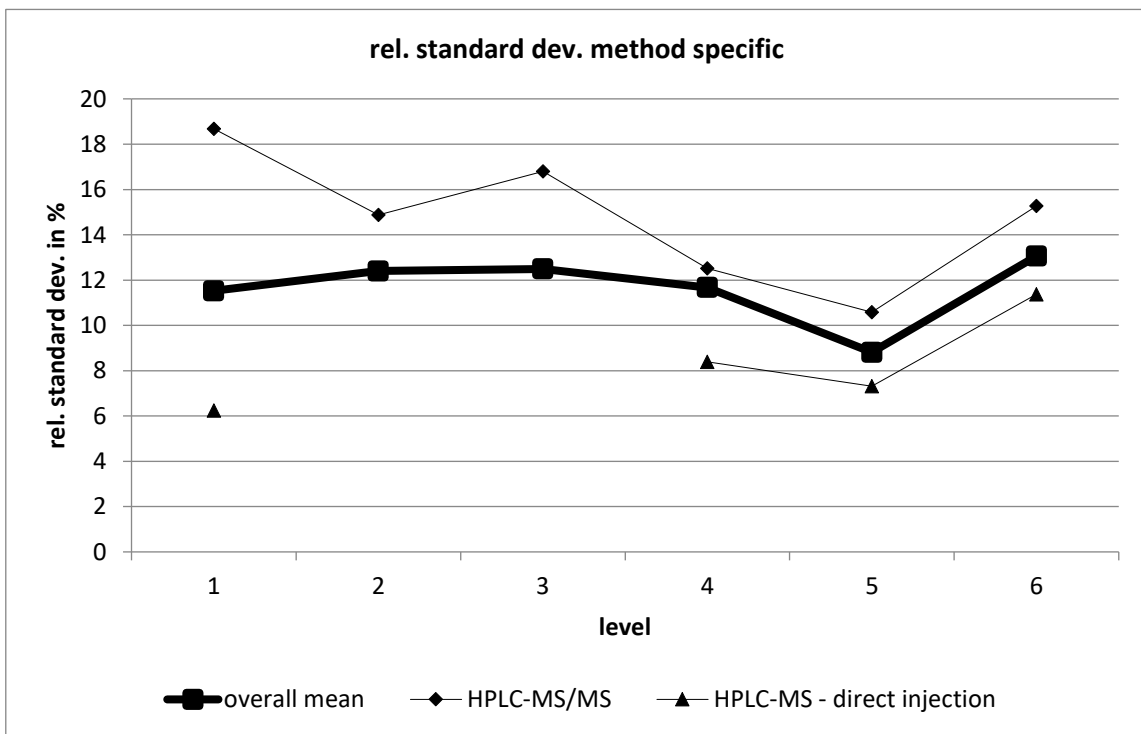
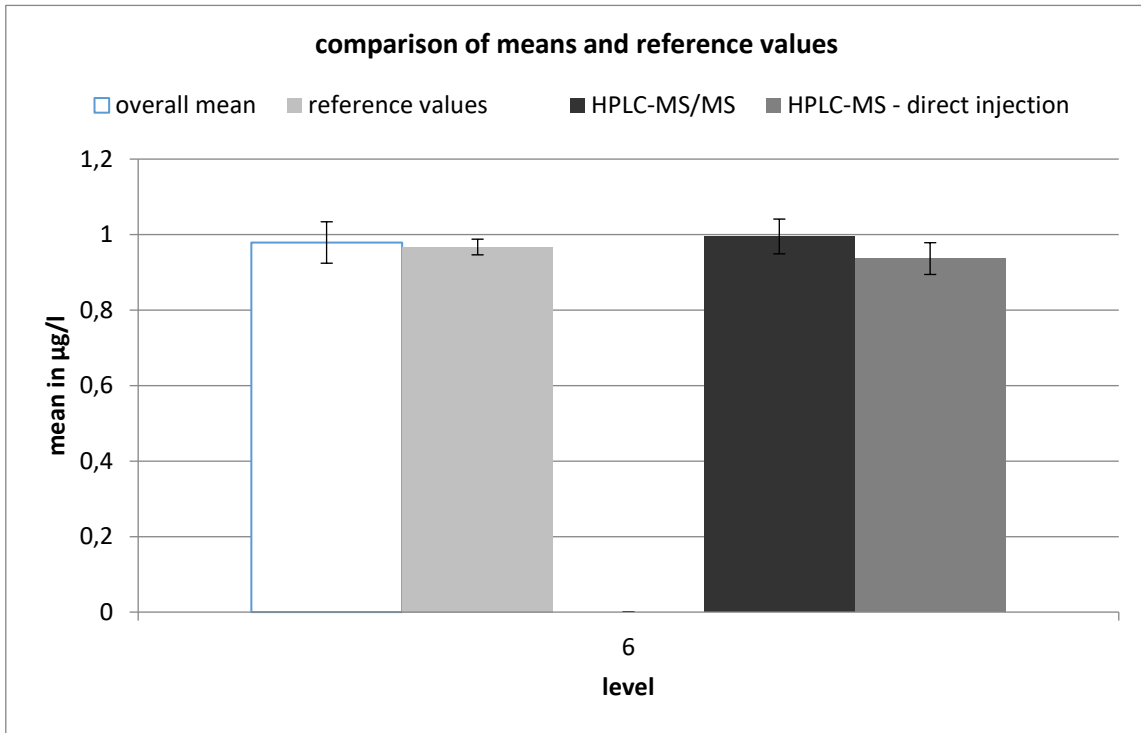
Comparison of means and reference values

level	mean [µg/l]	exp. uncertainty [µg/l]	exp. uncertainty [%]	reference value [µg/l]	exp. uncertainty [µg/l]	exp. uncertainty [%]
1	0,1438	0,0072	5,0	0,1538	0,0111	7,2
2	0,2561	0,0138	5,4	0,2609	0,0118	4,5
3	0,4110	0,0223	5,4	0,4148	0,0131	3,2
4	0,6489	0,0335	5,2	0,6582	0,0162	2,5
5	0,8407	0,0323	3,8	0,9398	0,0204	2,2
6	0,9791	0,0548	5,6	0,9671	0,0208	2,1









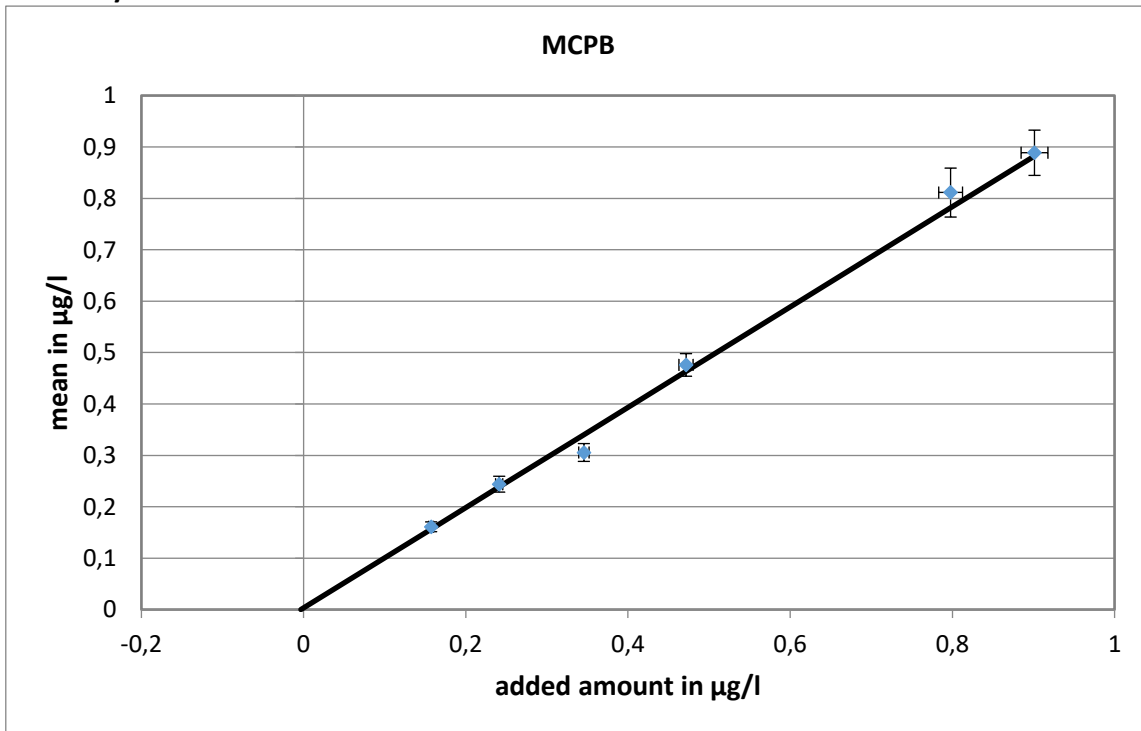
HPLC-MS/MS									
level	robust mean [$\mu\text{g/l}$]	exp. unc. of the mean [$\mu\text{g/l}$]	exp. unc. of the mean [%]	robust standard deviation [$\mu\text{g/l}$]	robust standard deviation [%]	number of results	out below	out above	out [%]
1	0,143	0,008	5,663	0,027	18,68	17	0	2	11,8
2	0,259	0,011	4,385	0,039	14,88	18	2	1	16,7
3	0,42	0,021	4,948	0,071	16,79	18	1	0	5,56
4	0,666	0,022	3,336	0,083	12,52	22	1	1	9,09
5	0,818	0,03	3,669	0,087	10,58	13	2	0	15,4
6	0,995	0,046	4,631	0,152	15,28	17	1	1	11,8

HPLC-MS - direct injection									
level	robust mean [$\mu\text{g/l}$]	exp. unc. of the mean [$\mu\text{g/l}$]	exp. unc. of the mean [%]	robust standard deviation [$\mu\text{g/l}$]	robust standard deviation [%]	number of results	out below	out above	out [%]
1	0,148	0,004	2,468	0,009	6,243	10	0	1	10
4	0,635	0,022	3,495	0,053	8,389	9	1	0	11,1
5	0,88	0,025	2,891	0,064	7,315	10	0	0	0
6	0,936	0,042	4,496	0,107	11,38	10	0	0	0

MCPB

level	assigned value [µg/l]	expanded uncertainty of the assigned value [%]	standard deviation, calculated using robust statistics [µg/l]	standard deviation from variance function [µg/l]	standard deviation for proficiency assessment [µg/l]	standard deviation for proficiency assessment [%]	upper tolerance limit [µg/l]	lower tolerance limit [µg/l]	upper tolerance limit [%]	lower tolerance limit [%]	number of results	out below	out above	out [%]	
1	0,1610	5,92	0,0191	0,0190	0,0190	11,81	0,2015	0,1250	25,18	-22,38	25	2	1	12,0	
2	0,2440	6,30	0,0314	0,0281	0,0281	11,52	0,3038	0,1906	24,53	-21,87	26	1	4	19,2	
3	0,3056	5,67	0,0332	0,0348	0,0348	11,37	0,3795	0,2396	24,19	-21,60	23	2	1	13,0	
4	0,4759	4,62	0,0431	0,0527	0,0527	11,08	0,5879	0,3756	23,53	-21,07	24	1	2	12,5	
5	0,8113	5,87	0,0990	0,0871	0,0871	10,74	0,9960	0,6454	22,76	-20,45	27	1	3	14,8	
6	0,8887	4,96	0,0933	0,0949	0,0949	10,68	1,090	0,7079	22,63	-20,34	28	2	3	17,9	
											sum	153	9	14	15,0

Recovery and matrix content

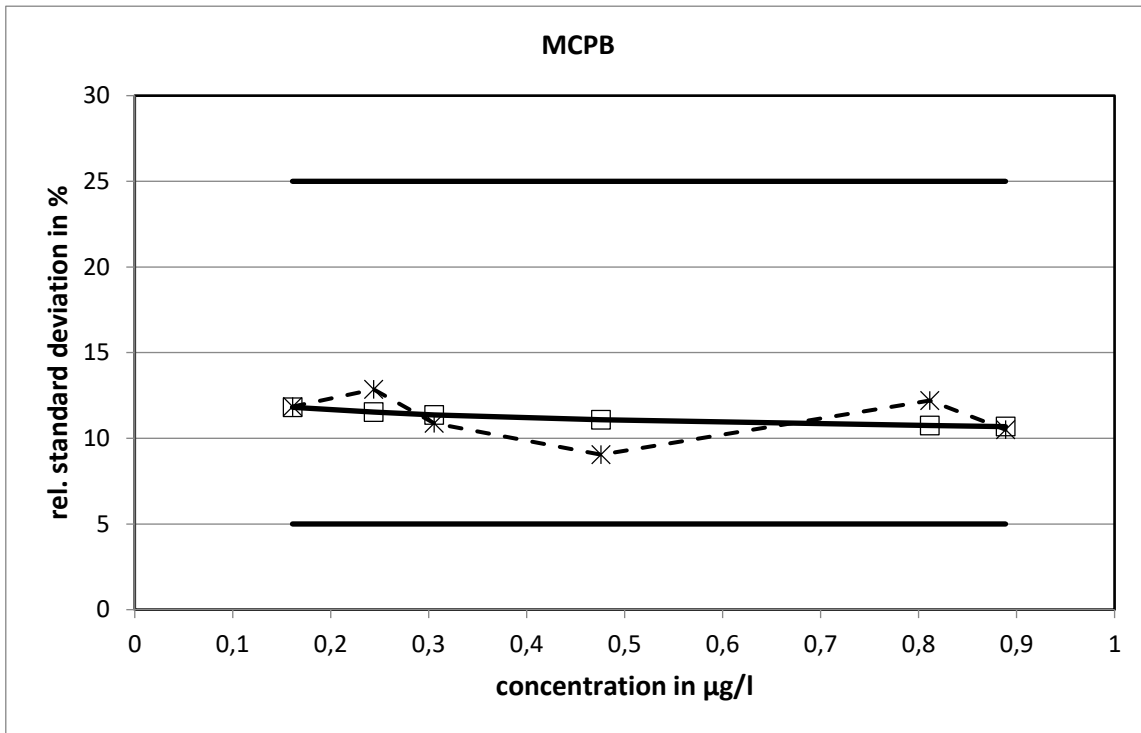


slope of the regression: 0,975; recovery rate: 97,5 %

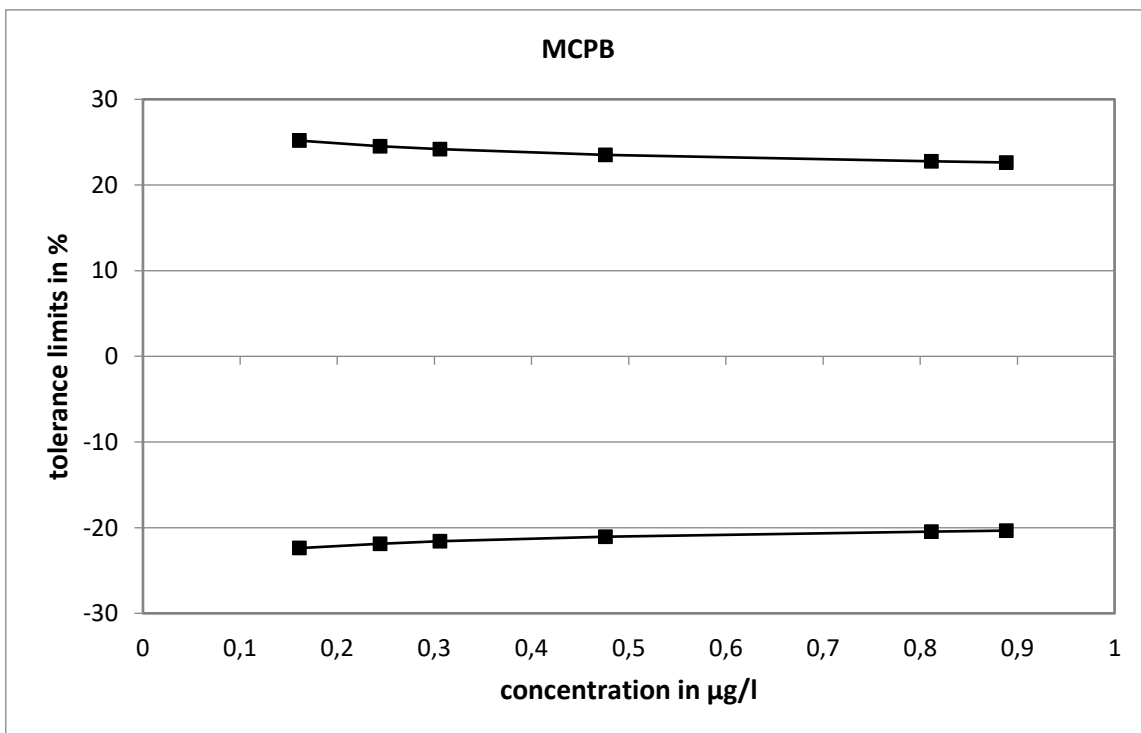
neg. x-axis intercept corresponds to the matrix content: 0,003 µg/l

expanded uncertainty of the matrix content: 0,003 µg/l = 100 %

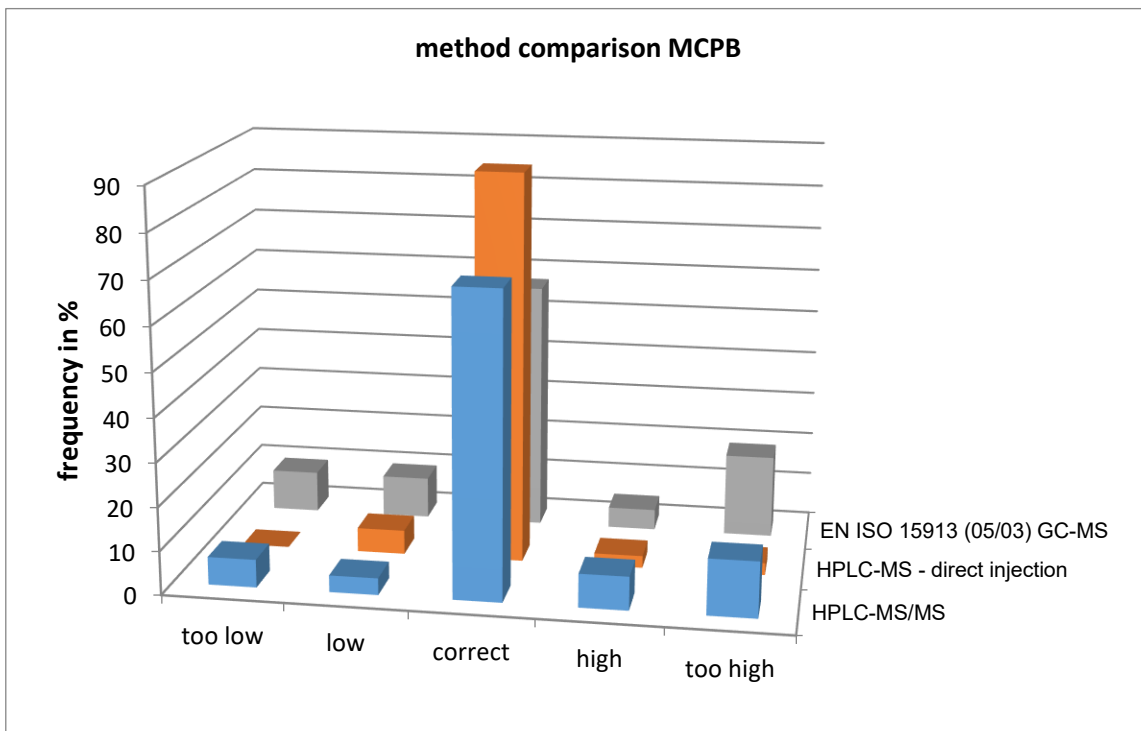
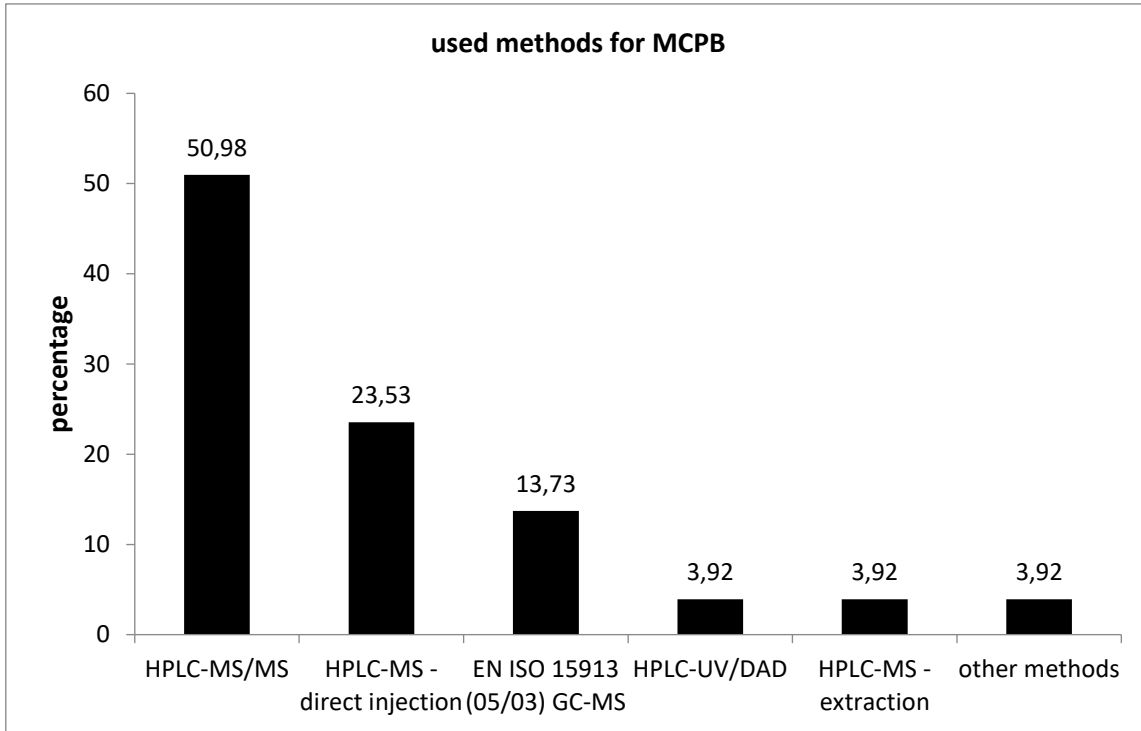
Relative standard deviation and tolerance limits



The relative standard deviations calculated with the variance function did not reach the limits.



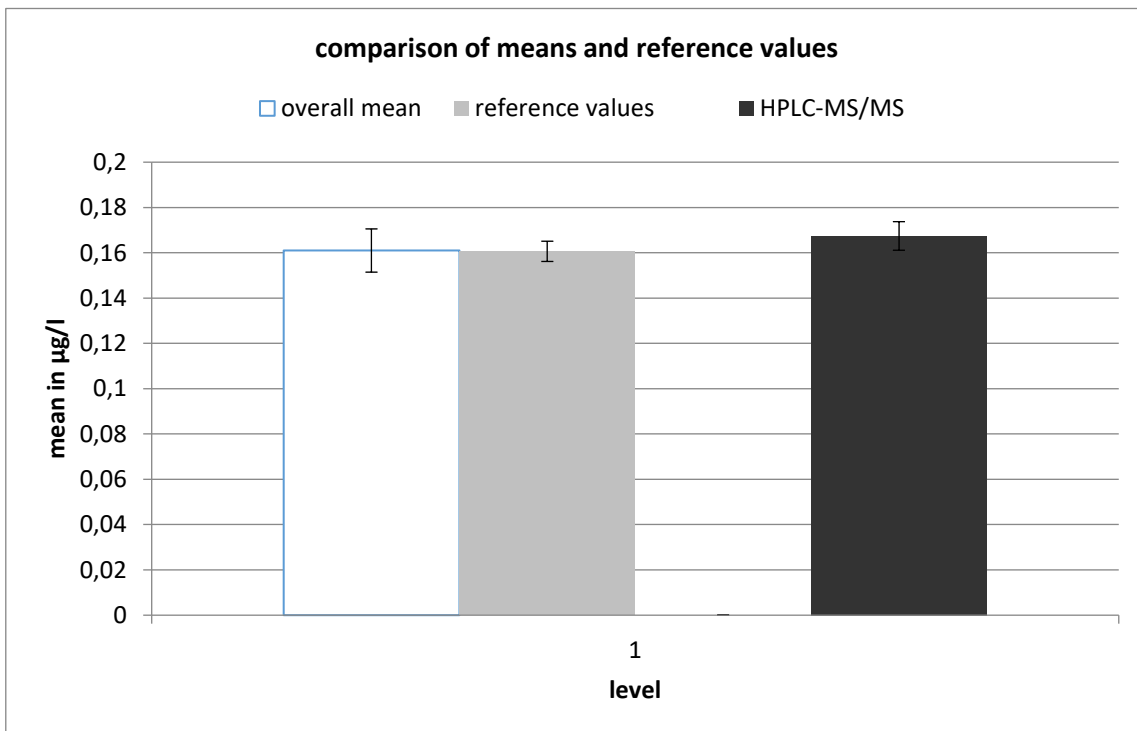
Method specific evaluation

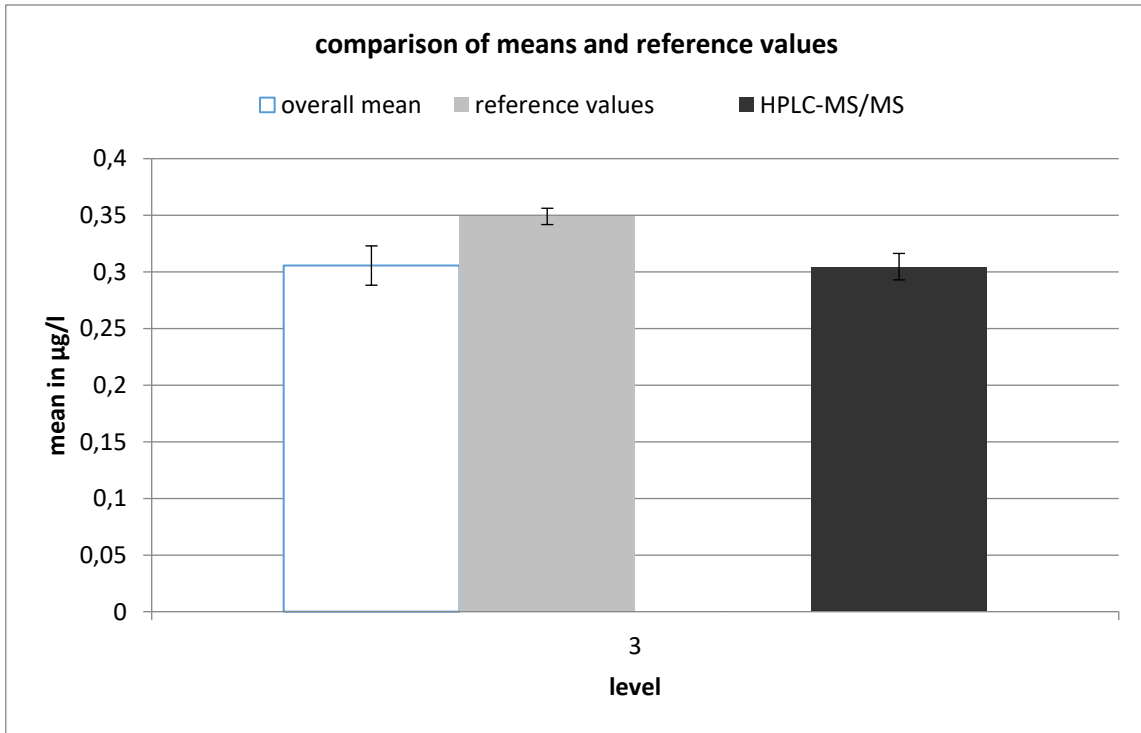
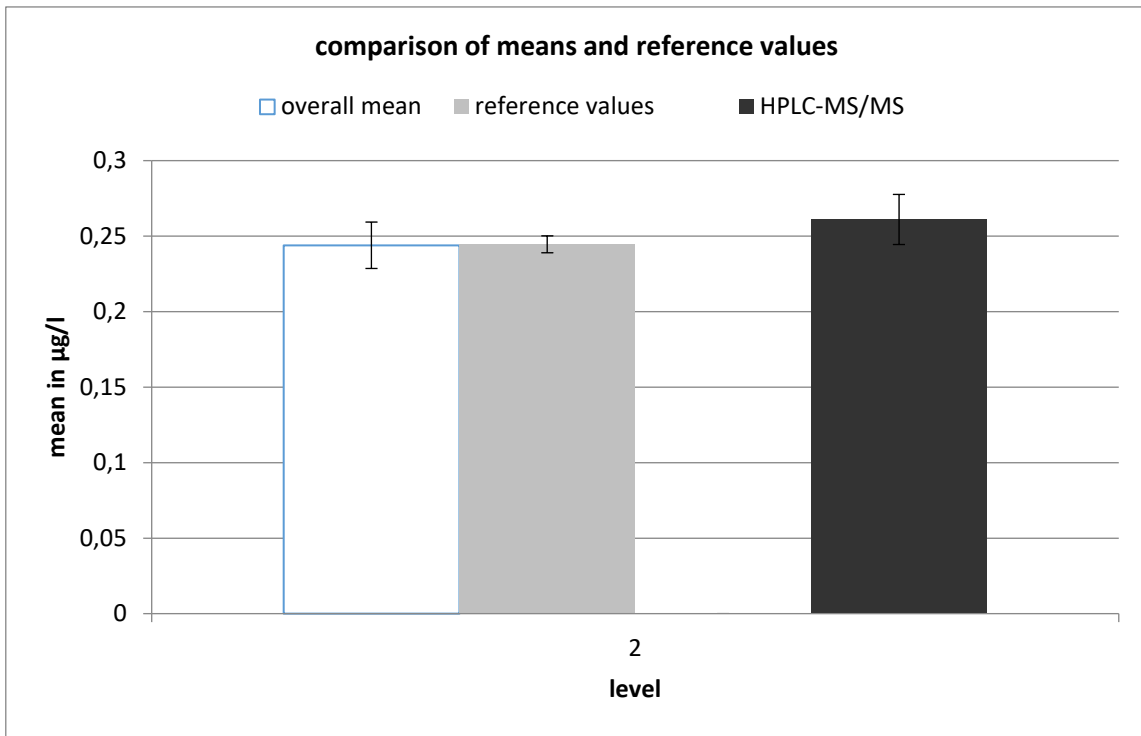


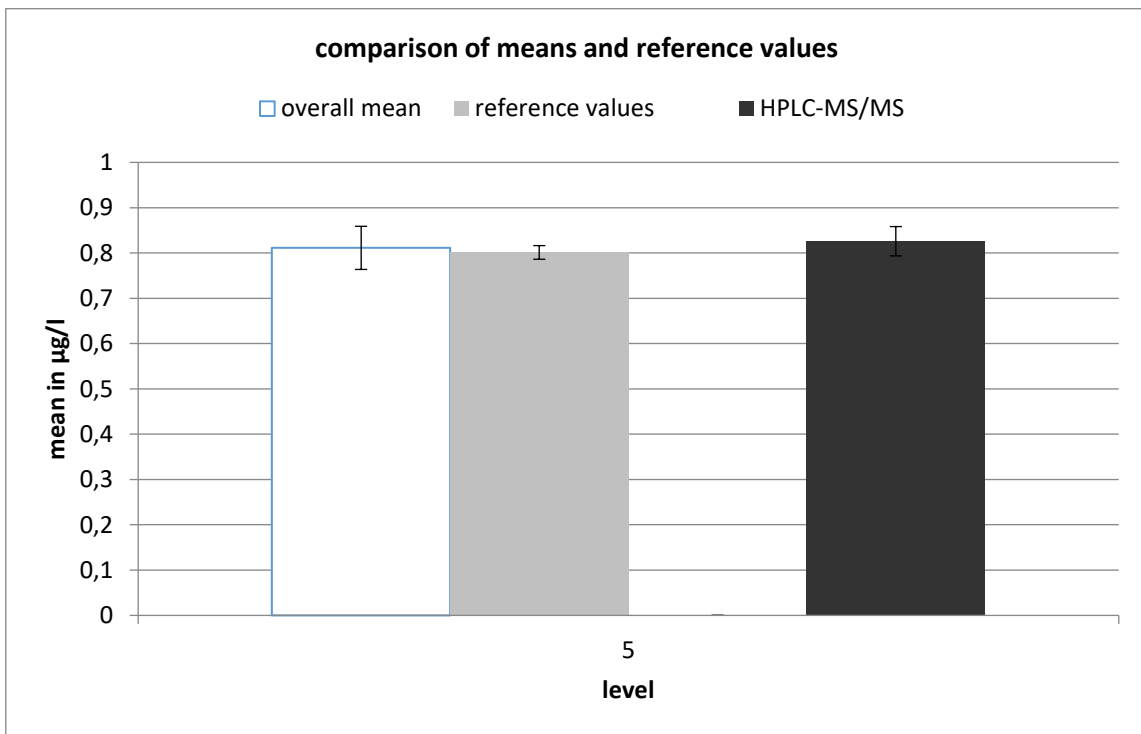
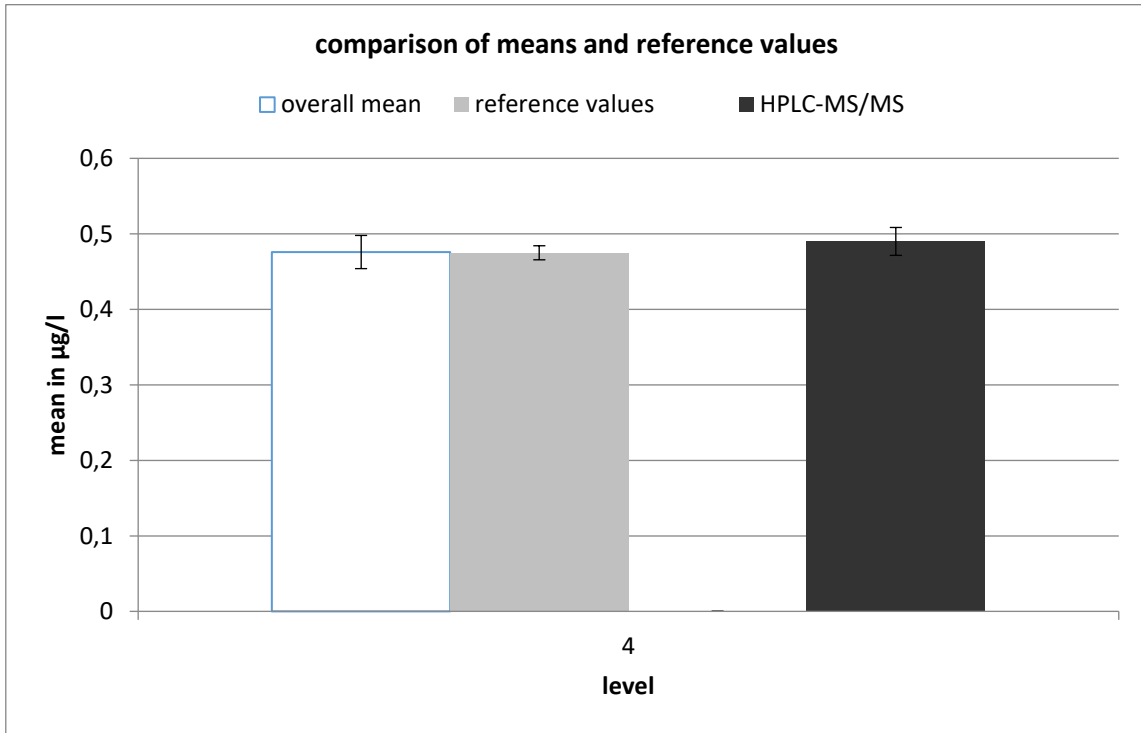
The values measured with GC-MS showed a broader statistical distribution.

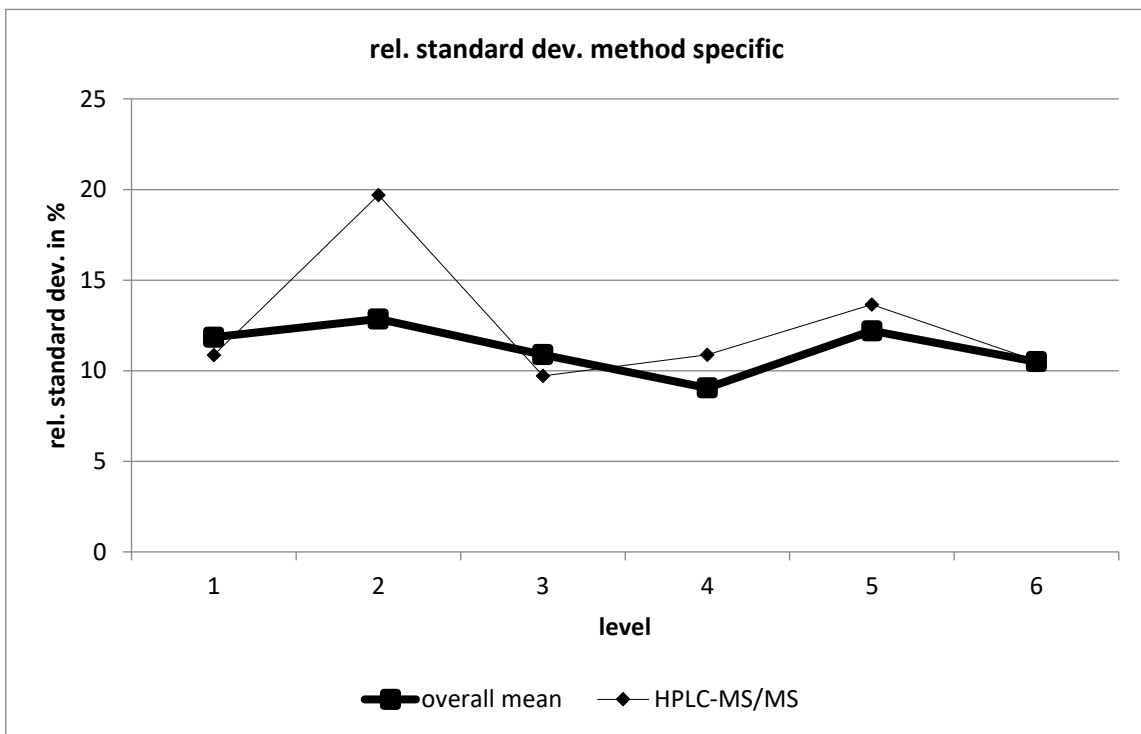
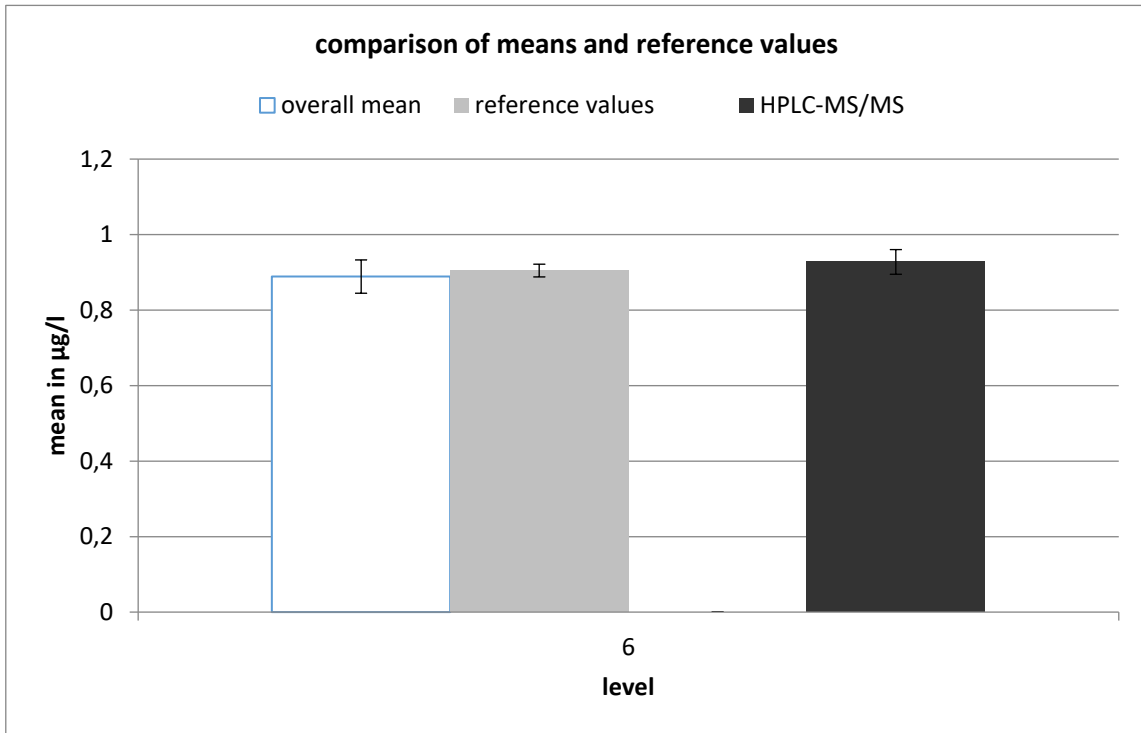
Comparison of means and reference values

level	mean [µg/l]	exp. uncertainty [µg/l]	exp. uncertainty [%]	reference value [µg/l]	exp. uncertainty [µg/l]	exp. uncertainty [%]
1	0,1610	0,0095	5,9	0,1606	0,0045	2,8
2	0,2440	0,0154	6,3	0,2446	0,0056	2,3
3	0,3056	0,0173	5,7	0,3490	0,0072	2,1
4	0,4759	0,0220	4,6	0,4749	0,0093	2,0
5	0,8113	0,0476	5,9	0,8012	0,0151	1,9
6	0,8887	0,0441	5,0	0,9047	0,0169	1,9







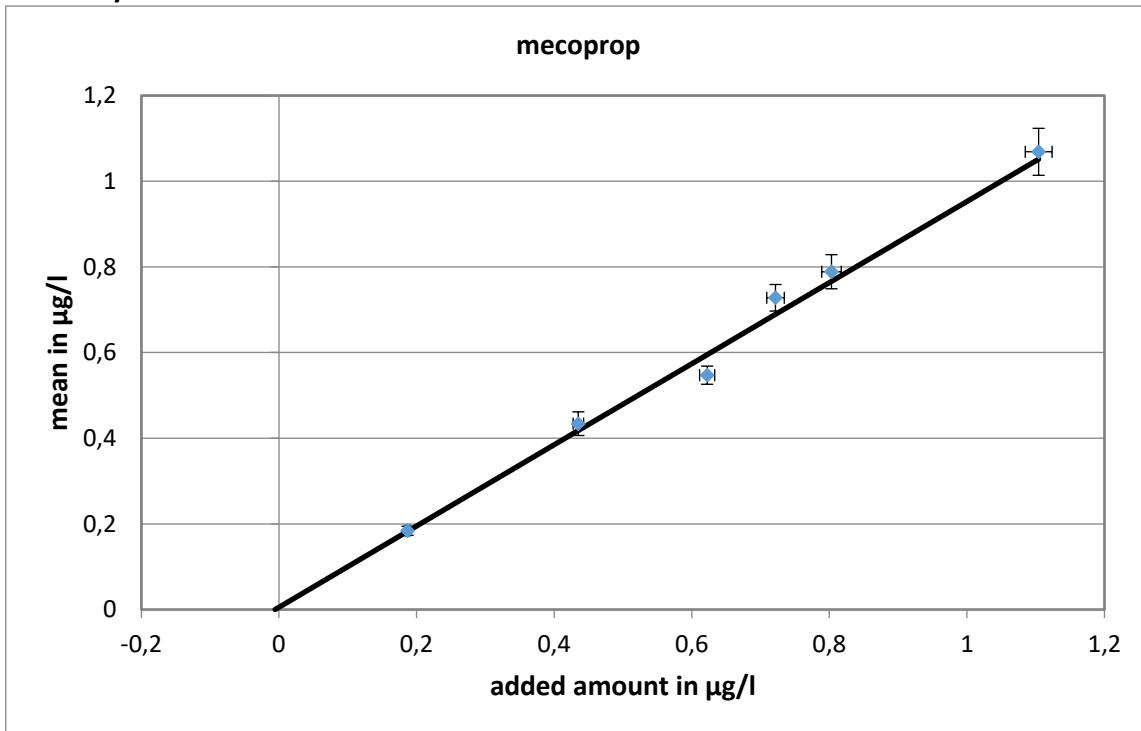


HPLC-MS/MS									
level	robust mean [$\mu\text{g/l}$]	exp. unc. of the mean [$\mu\text{g/l}$]	exp. unc. of the mean [%]	robust standard deviation [$\mu\text{g/l}$]	robust standard deviation [%]	number of results	out below	out above	out [%]
1	0,167	0,006	3,767	0,018	10,86	13	1	1	15,4
2	0,261	0,017	6,357	0,051	19,7	15	0	2	13,3
3	0,305	0,012	3,839	0,03	9,713	10	1	0	10
4	0,49	0,018	3,768	0,053	10,87	13	2	0	15,4
5	0,826	0,032	3,917	0,113	13,66	19	1	0	5,26
6	0,928	0,033	3,522	0,098	10,54	14	2	1	21,4

mecoprop

level	assigned value [µg/l]	expanded uncertainty of the assigned value [%]	standard deviation, calculated using robust statistics [µg/l]	standard deviation from variance function [µg/l]	standard deviation for proficiency assessment [µg/l]	standard deviation for proficiency assessment [%]	upper tolerance limit [µg/l]	lower tolerance limit [µg/l]	upper tolerance limit [%]	lower tolerance limit [%]	number of results	out below	out above	out [%]
1	0,1840	5,72	0,0245	0,0240	0,0240	13,07	0,2357	0,1386	28,08	-24,65	34	3	1	11,4
2	0,4339	6,36	0,0624	0,0513	0,0513	11,82	0,5433	0,3367	25,20	-22,40	32	0	2	6,3
3	0,5472	3,87	0,0480	0,0629	0,0629	11,50	0,6812	0,4278	24,48	-21,83	32	1	1	6,3
4	0,7279	4,26	0,0701	0,0810	0,0810	11,12	0,8999	0,5740	23,62	-21,14	32	2	2	12,1
5	0,7887	5,05	0,0929	0,0869	0,0869	11,02	0,9731	0,6234	23,39	-20,95	34	1	3	11,8
6	1,069	5,13	0,1279	0,1136	0,1136	10,63	1,309	0,8522	22,52	-20,25	34	3	1	11,4
sum											198	10	10	10,1

Recovery and matrix content

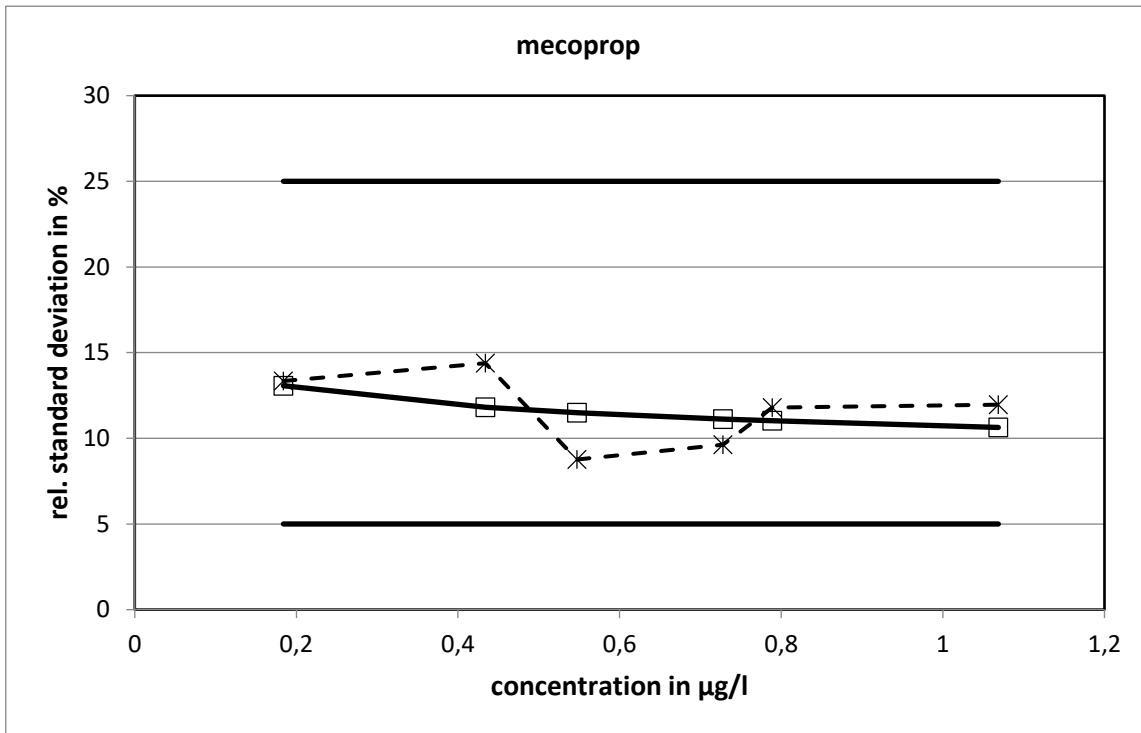


slope of the regression: 0,947; recovery rate: 94,7 %

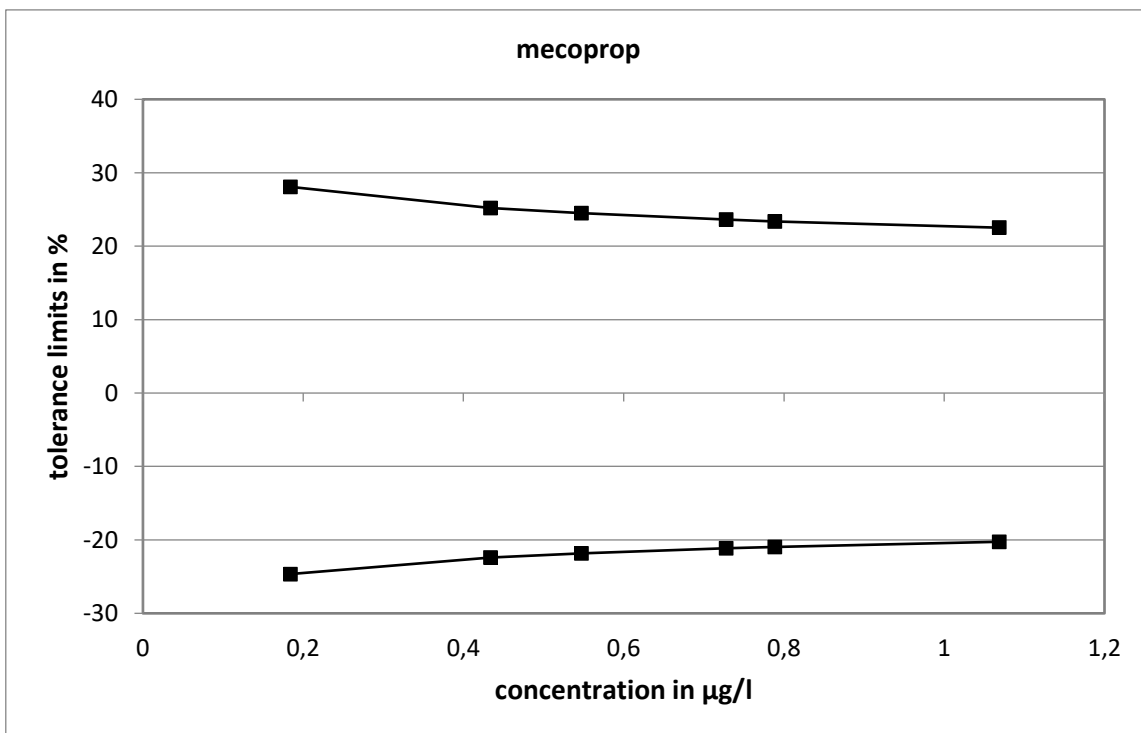
neg. x-axis intercept corresponds to the matrix content: 0,0057 µg/l

expanded uncertainty of the matrix content: 0,057 µg/l = 100 %

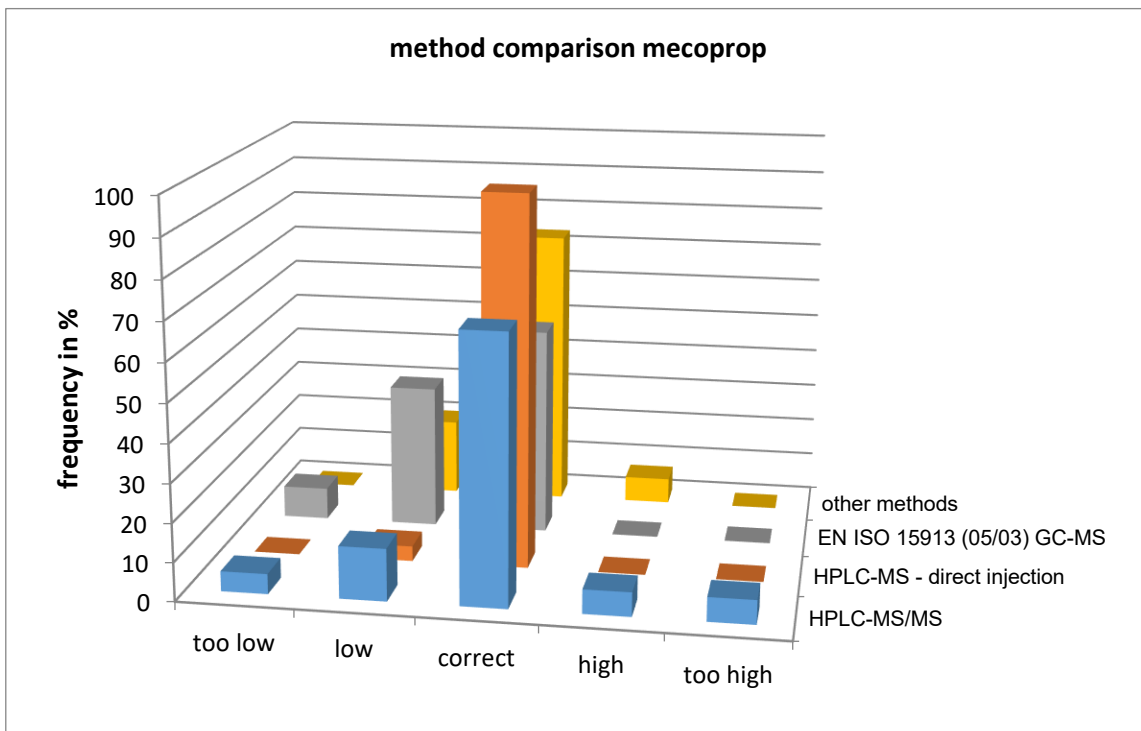
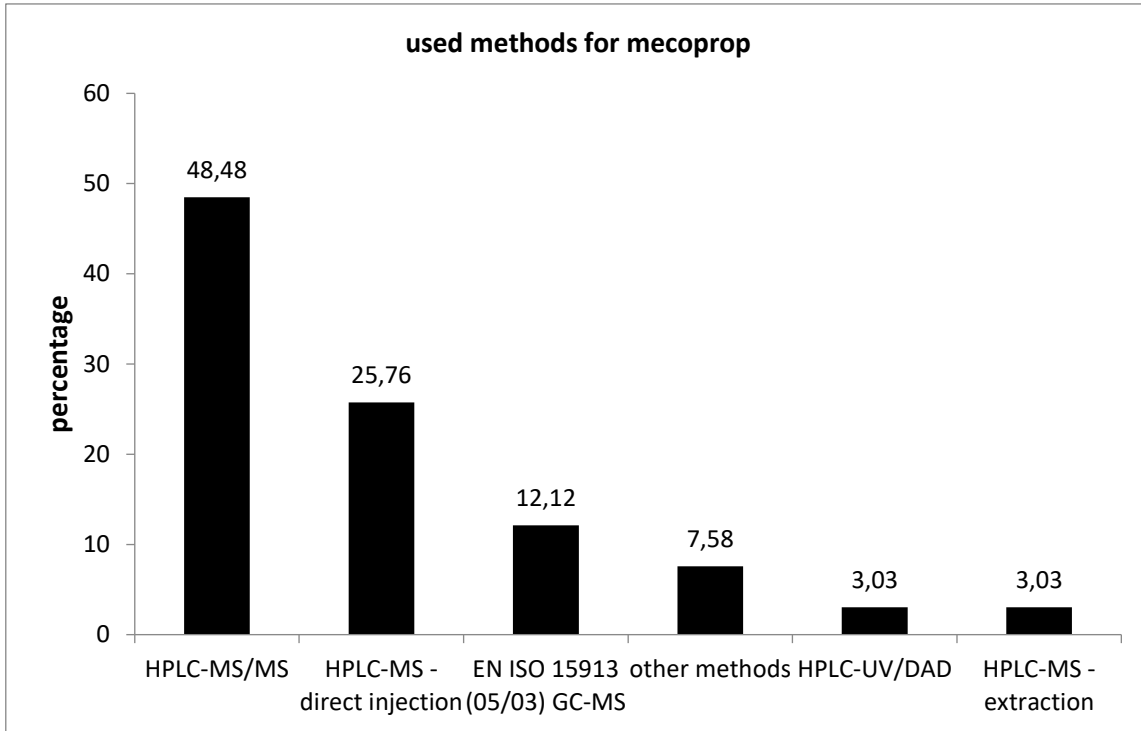
Relative standard deviation and tolerance limits



The relative standard deviations calculated with the variance function did not reach the limits.



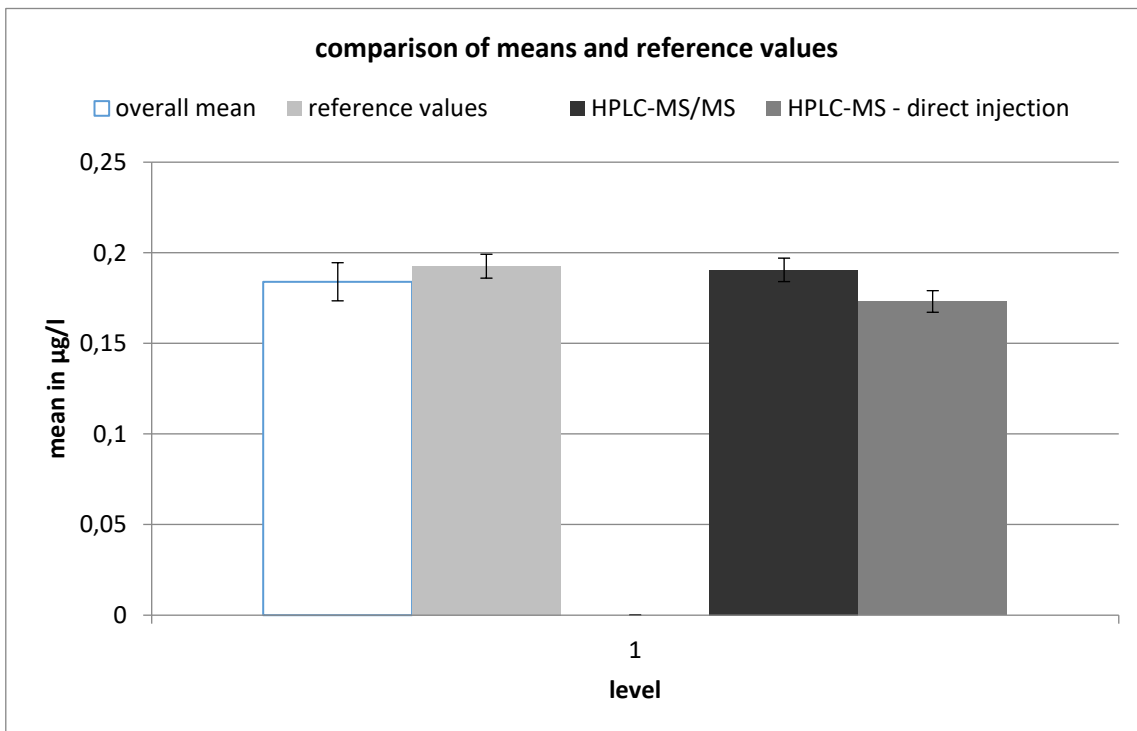
Method specific evaluation

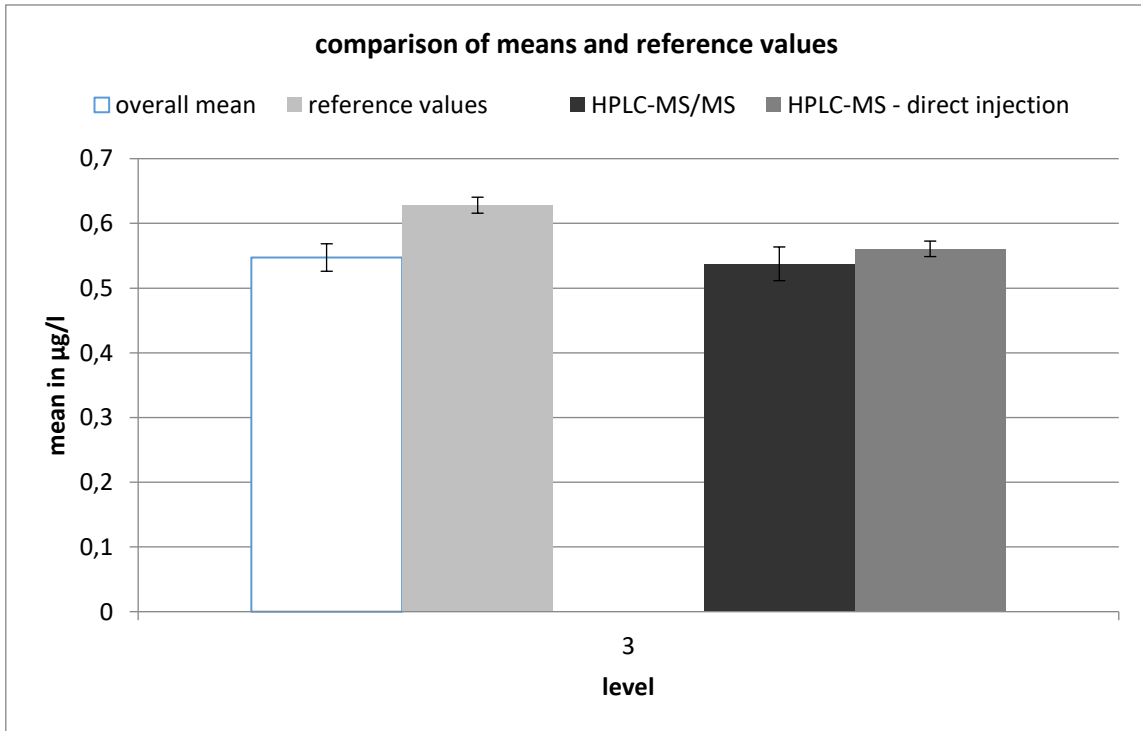
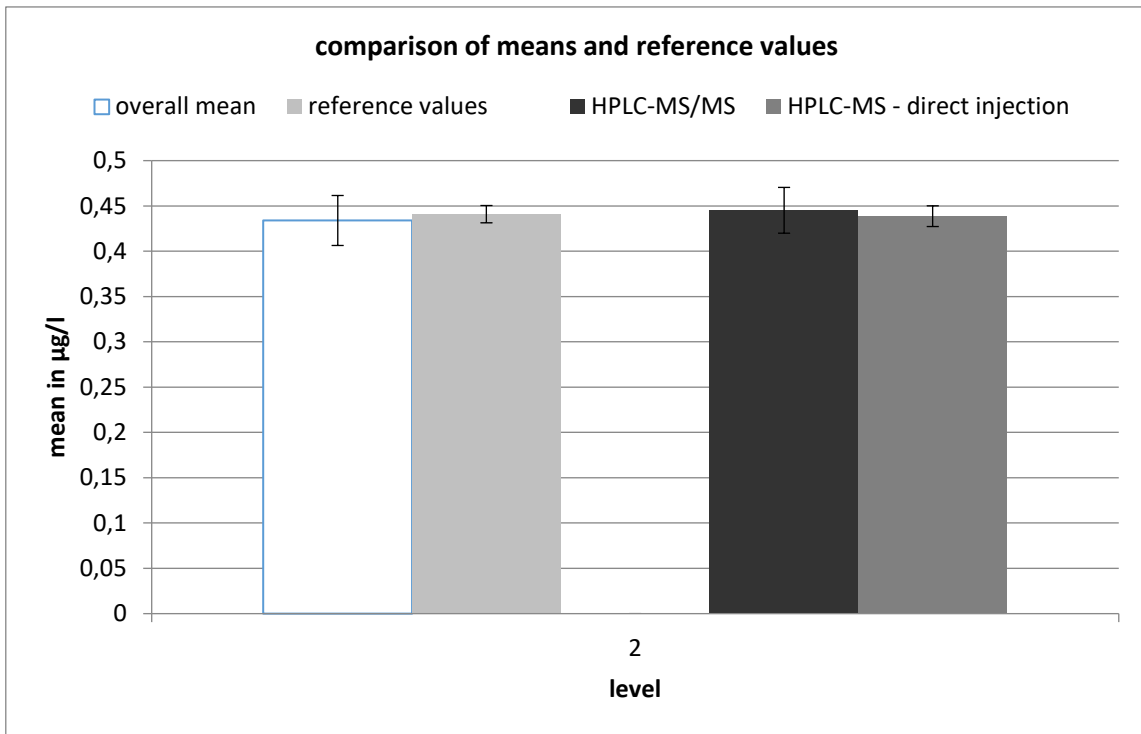


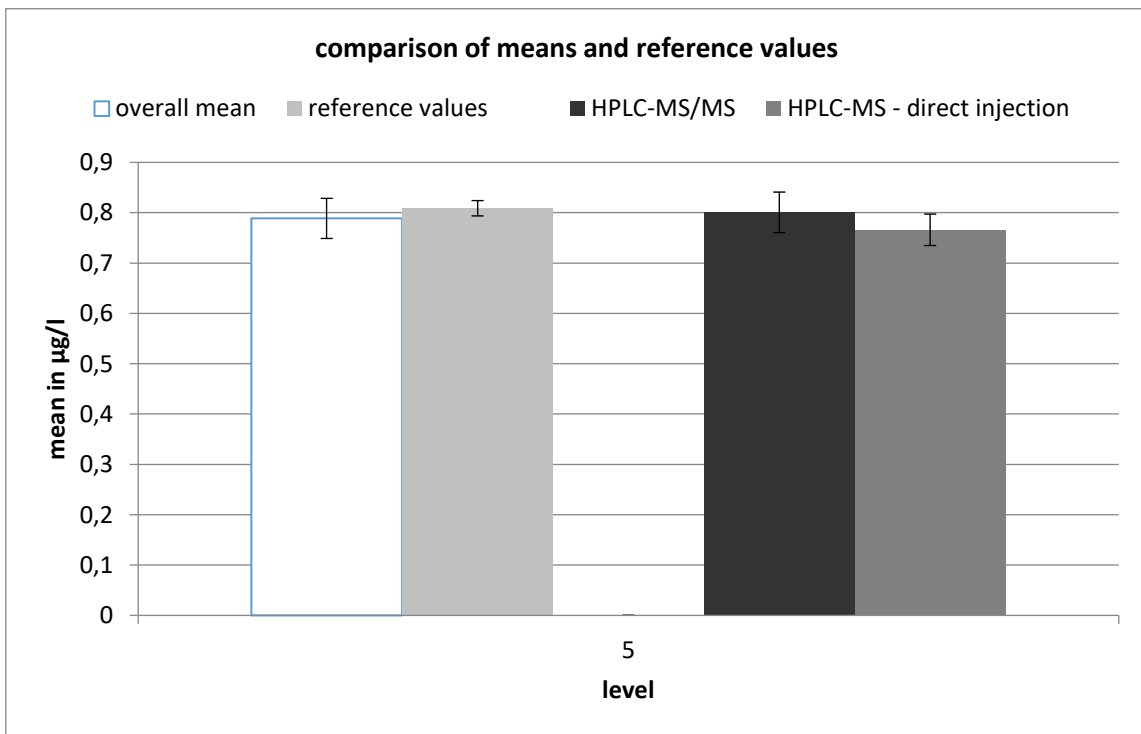
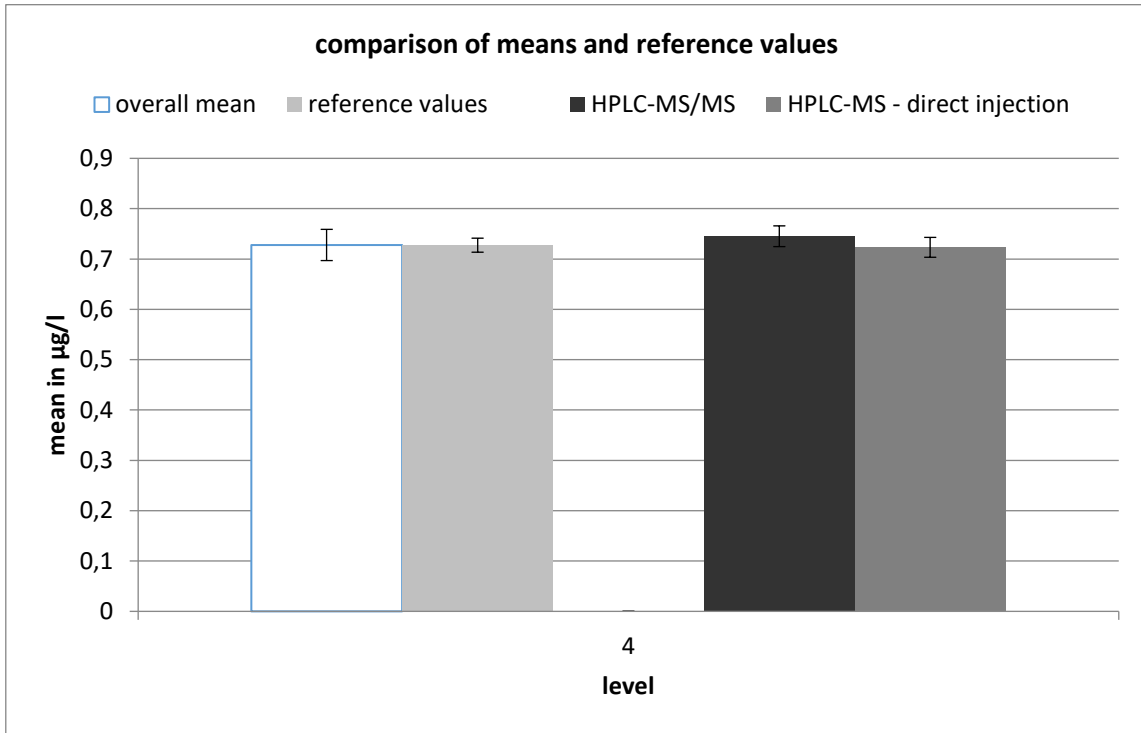
The values measured using GC-MS showed a slight tendency for too low values.

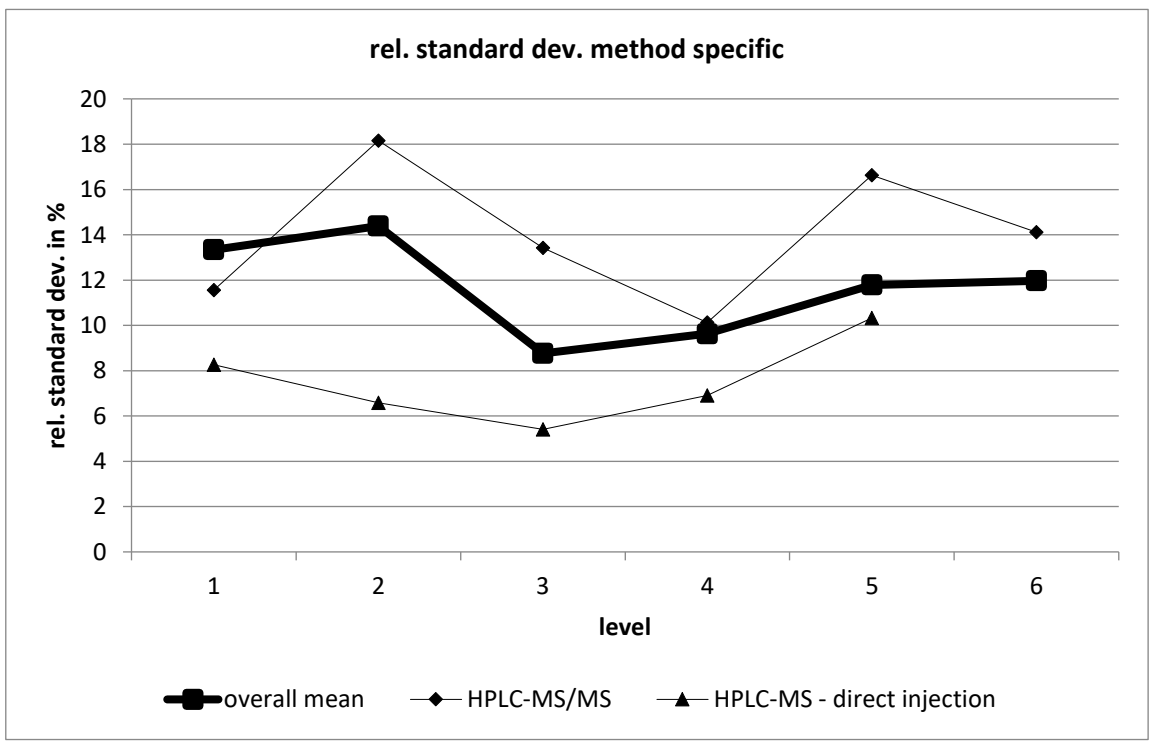
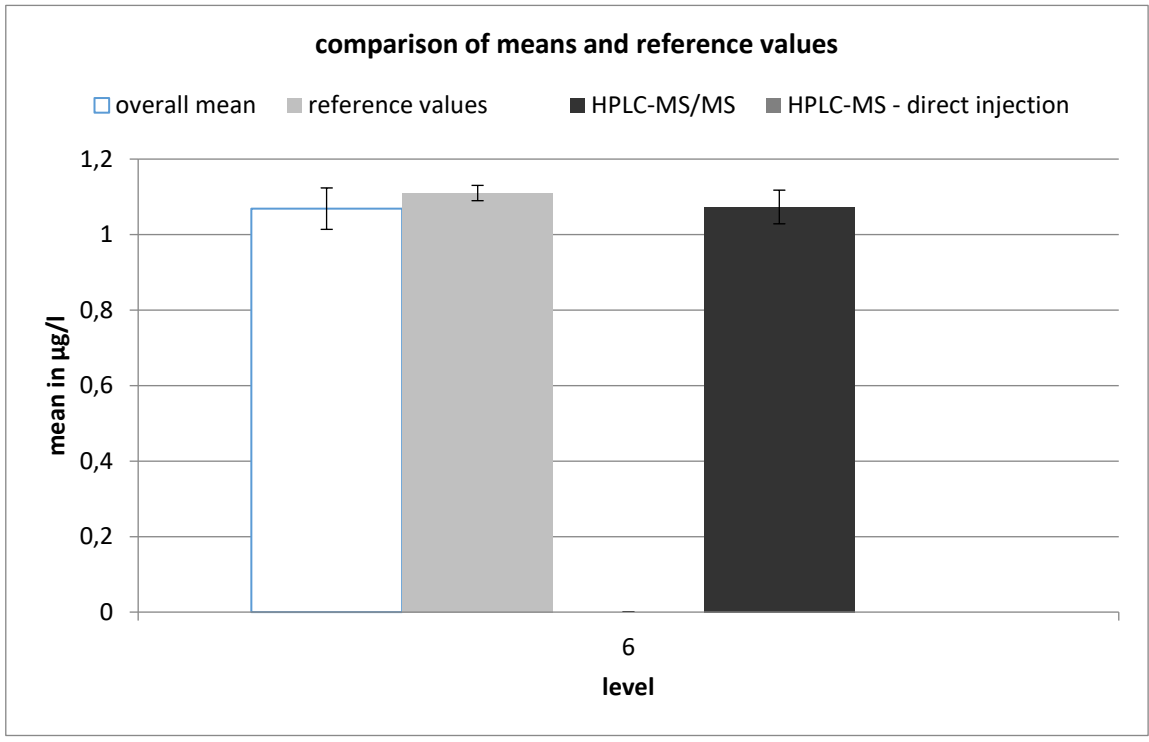
Comparison of means and reference values

level	measured values			reference values		
	mean [$\mu\text{g/l}$]	exp. uncertainty [$\mu\text{g/l}$]	exp. uncertainty [%]	reference value [$\mu\text{g/l}$]	exp. uncertainty [$\mu\text{g/l}$]	exp. uncertainty [%]
1	0,1840	0,0105	5,7	0,1926	0,0066	3,4
2	0,4339	0,0276	6,4	0,4409	0,0096	2,2
3	0,5472	0,0212	3,9	0,6281	0,0124	2,0
4	0,7279	0,0310	4,3	0,7275	0,0139	1,9
5	0,7887	0,0399	5,1	0,8088	0,0153	1,9
6	1,069	0,055	5,1	1,110	0,020	1,8









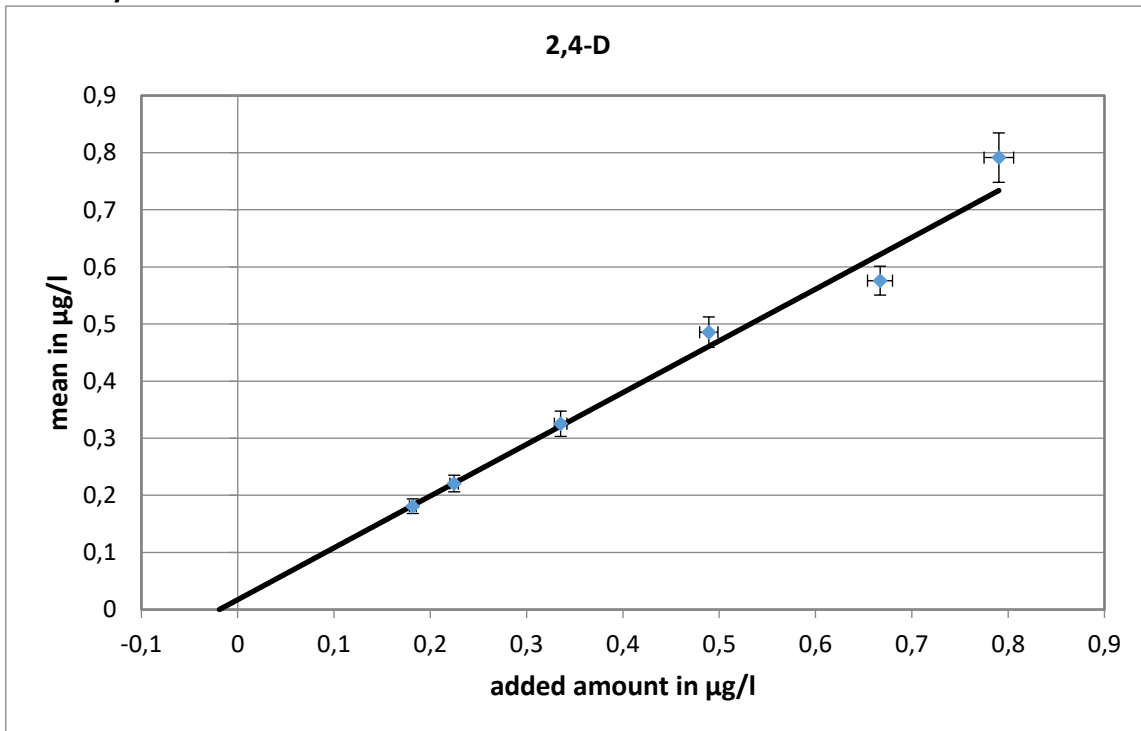
HPLC-MS/MS									
level	robust mean [µg/l]	exp. unc. of the mean [µg/l]	exp. unc. of the mean [%]	robust standard deviation [µg/l]	robust standard deviation [%]	number of results	out below	out above	out [%]
1	0,191	0,006	3,404	0,022	11,55	18	2	1	16,7
2	0,445	0,025	5,674	0,081	18,16	16	1	1	12,5
3	0,537	0,026	4,842	0,072	13,42	12	1	0	8,33
4	0,745	0,021	2,762	0,075	10,12	21	0	2	9,52
5	0,801	0,04	5,041	0,133	16,63	17	1	0	5,88
6	1,073	0,045	4,157	0,151	14,11	18	2	0	11,1

HPLC-MS - direct injection									
level	robust mean [µg/l]	exp. unc. of the mean [µg/l]	exp. unc. of the mean [%]	robust standard deviation [µg/l]	robust standard deviation [%]	number of results	out below	out above	out [%]
1	0,173	0,006	3,444	0,014	8,265	9	0	1	11,1
2	0,439	0,011	2,6	0,029	6,577	10	1	0	10
3	0,561	0,012	2,138	0,03	5,409	10	1	0	10
4	0,723	0,02	2,729	0,05	6,904	10	1	0	10
5	0,766	0,031	4,083	0,079	10,33	10	1	0	10

2,4-D

level	assigned value [µg/l]	expanded uncertainty of the assigned value [%]	standard deviation, calculated using robust statistics [µg/l]	standard deviation from variance function [µg/l]	standard deviation for proficiency assessment [µg/l]	standard deviation for proficiency assessment [%]	upper tolerance limit [µg/l]	lower tolerance limit [µg/l]	upper tolerance limit [%]	lower tolerance limit [%]	number of results	out below	out above	out [%]
1	0,1809	7,04	0,0279	0,0278	0,0278	15,36	0,2415	0,1290	33,46	-28,71	30	2	2	13,3
2	0,2207	6,62	0,0315	0,0323	0,0323	14,62	0,2906	0,1602	31,71	-27,41	29	2	1	10,3
3	0,3253	6,82	0,0478	0,0432	0,0432	13,28	0,4183	0,2439	28,57	-25,03	29	3	1	13,8
4	0,4857	5,49	0,0584	0,0584	0,0584	12,02	0,6104	0,3751	25,67	-22,77	30	3	1	13,3
5	0,5759	4,38	0,0544	0,0664	0,0664	11,53	0,7172	0,4499	24,54	-21,88	29	1	0	3,4
6	0,7913	5,46	0,0947	0,0843	0,0843	10,65	0,9699	0,6307	22,57	-20,29	30	3	1	13,3
sum											177	14	6	11,3

Recovery and matrix content

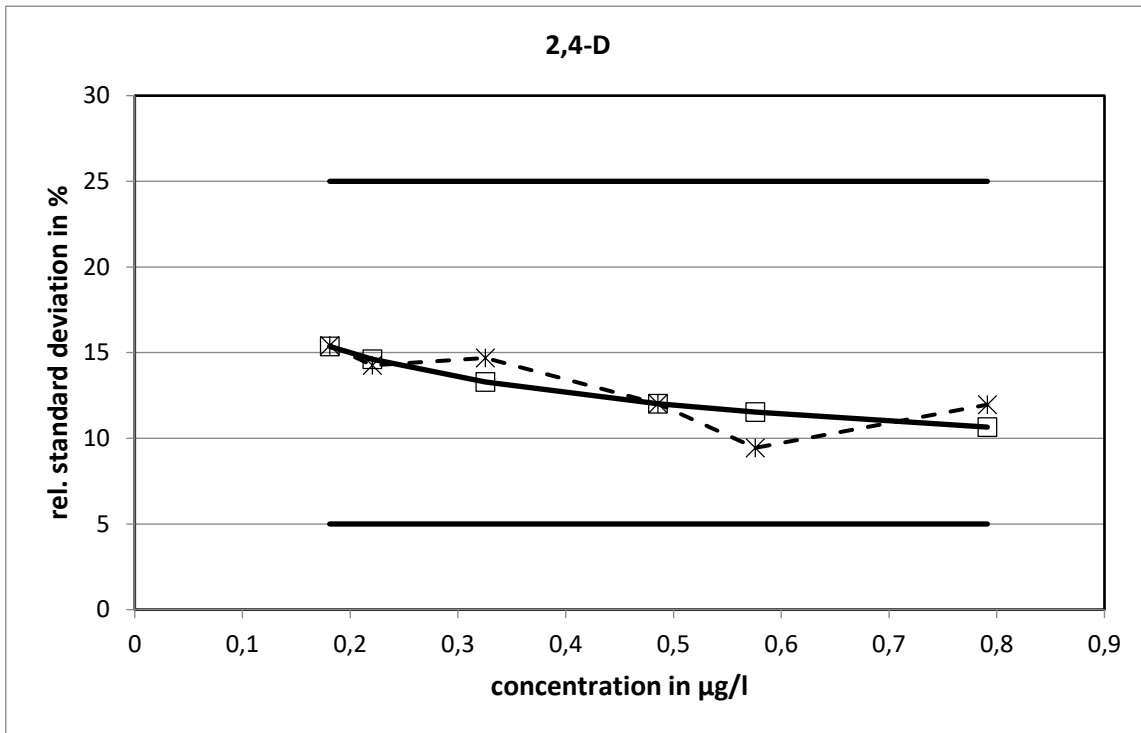


slope of the regression: 0,907; recovery rate: 90,7 %

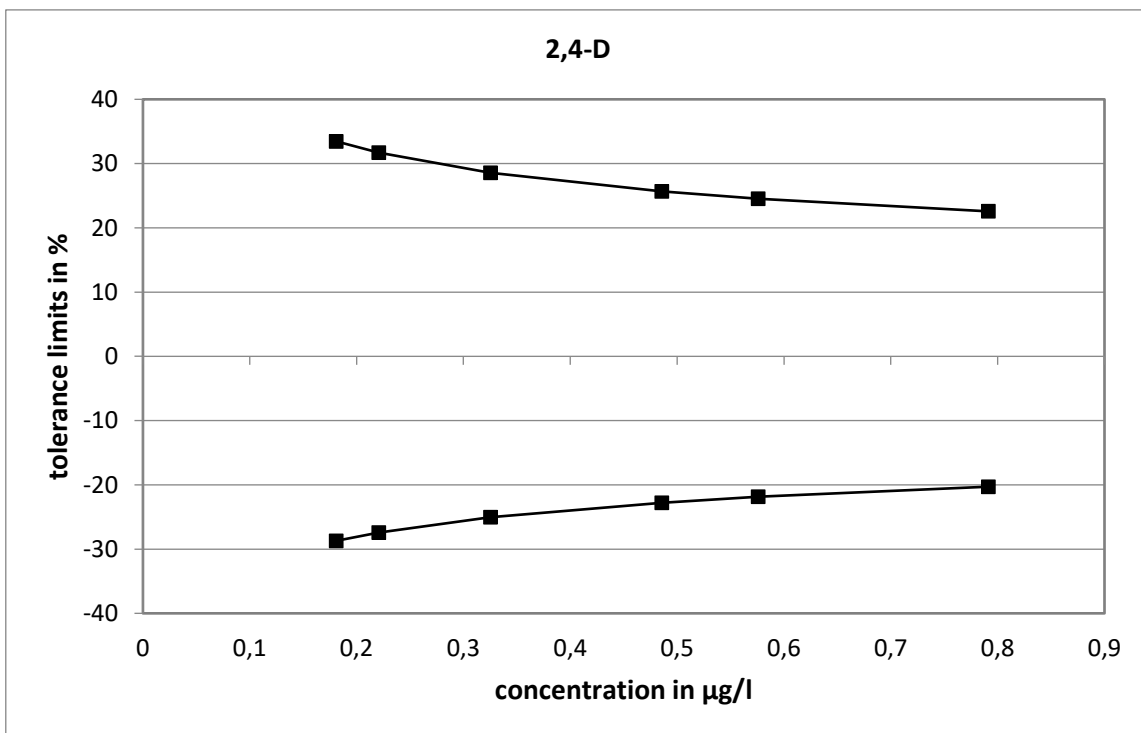
neg. x-axis intercept corresponds to the matrix content: 0,019 µg/l

expanded uncertainty of the matrix content: 0,019 µg/l = 100 %

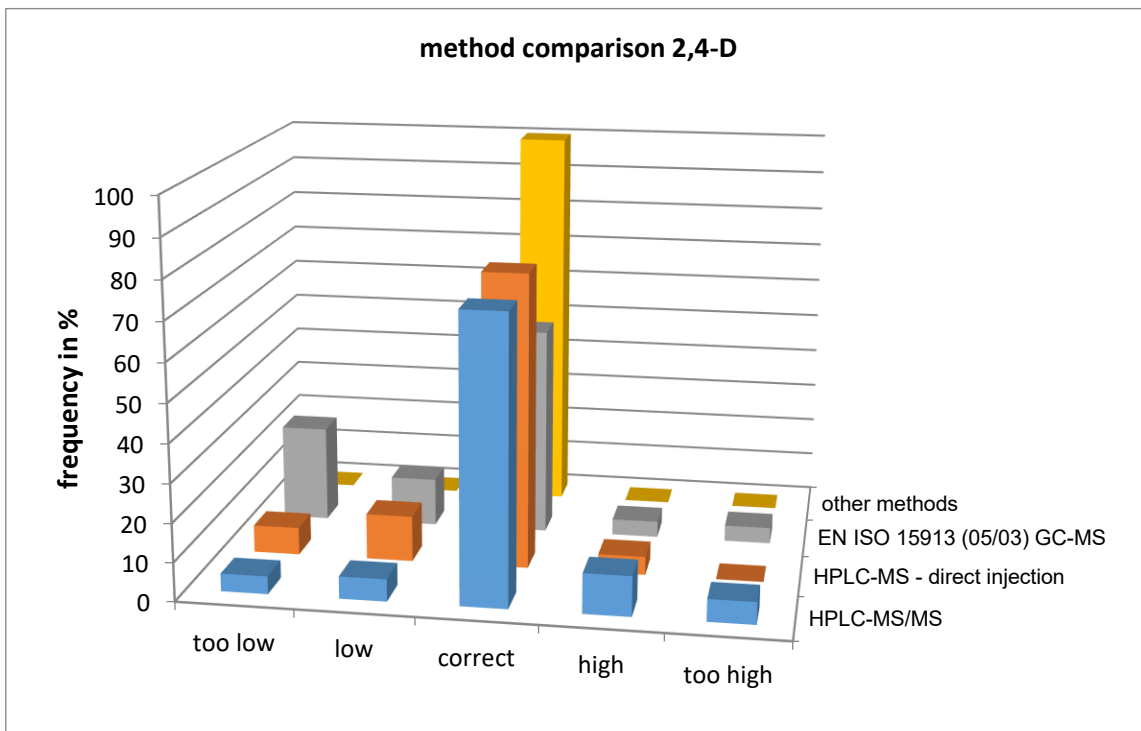
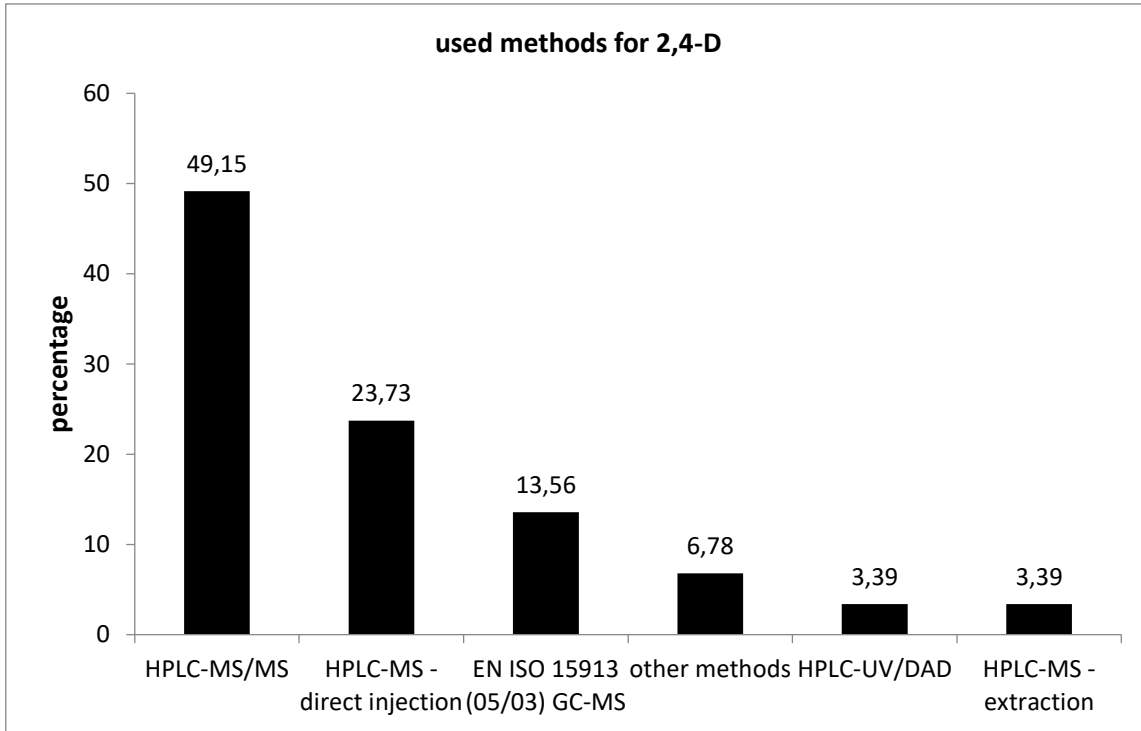
Relative standard deviation and tolerance limits



The relative standard deviations calculated with the variance function did not reach the limits.



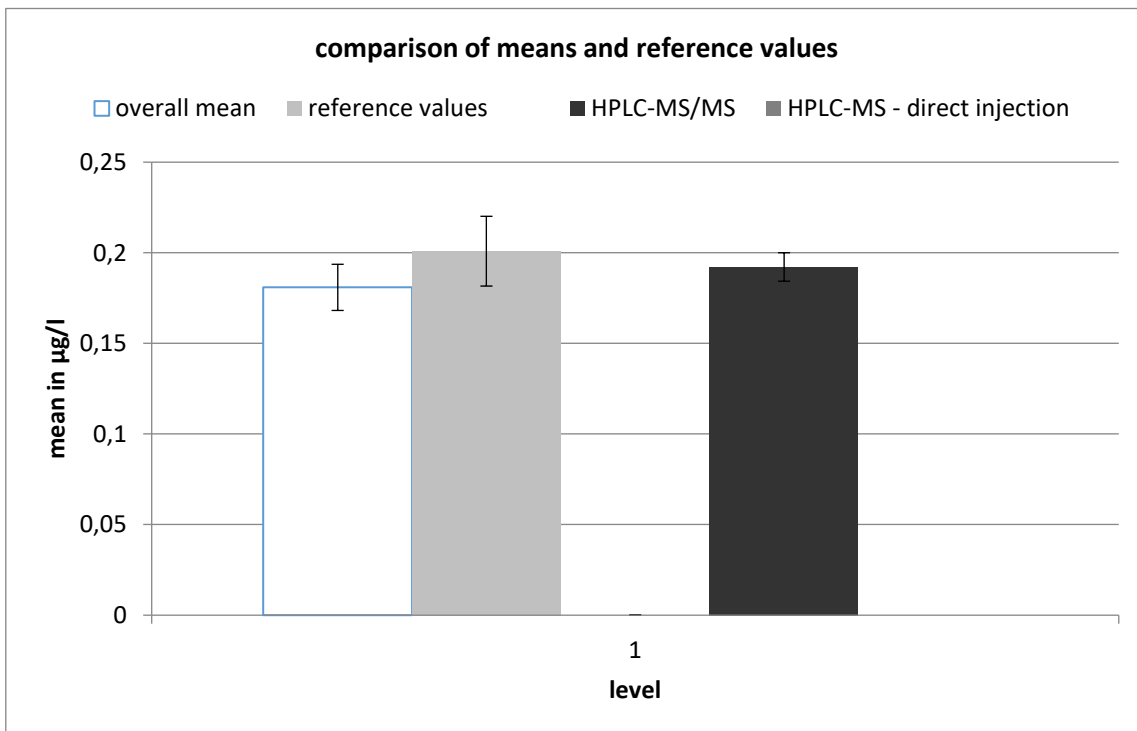
Method specific evaluation

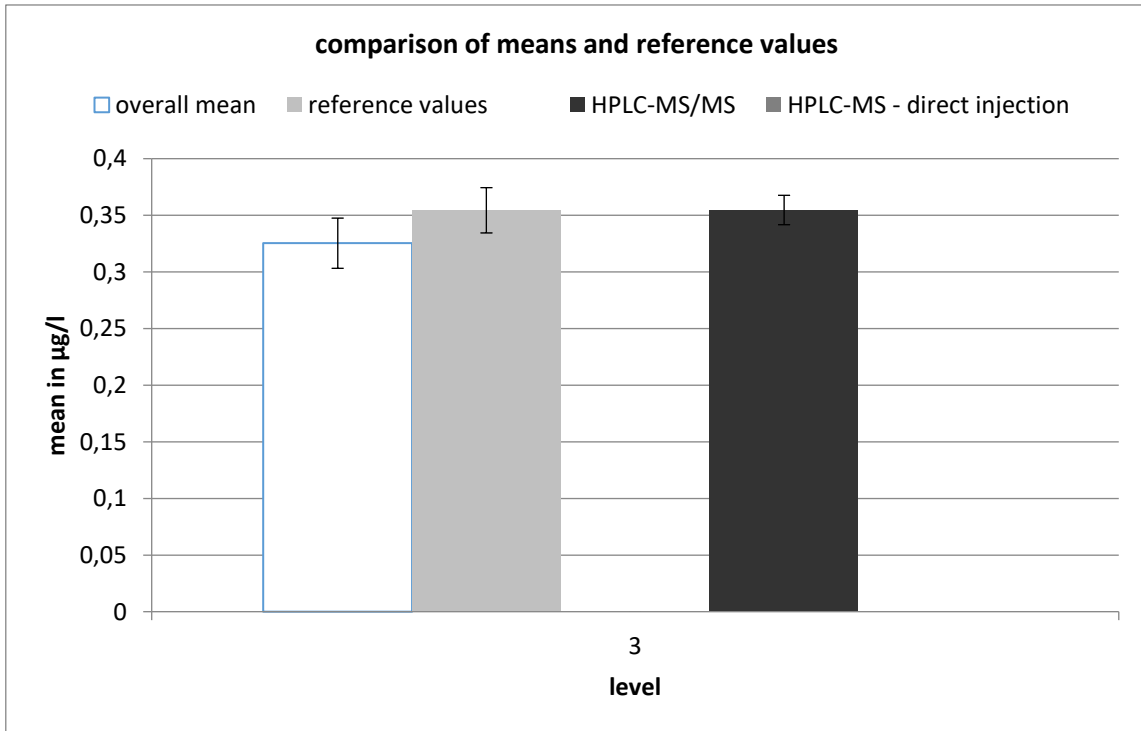
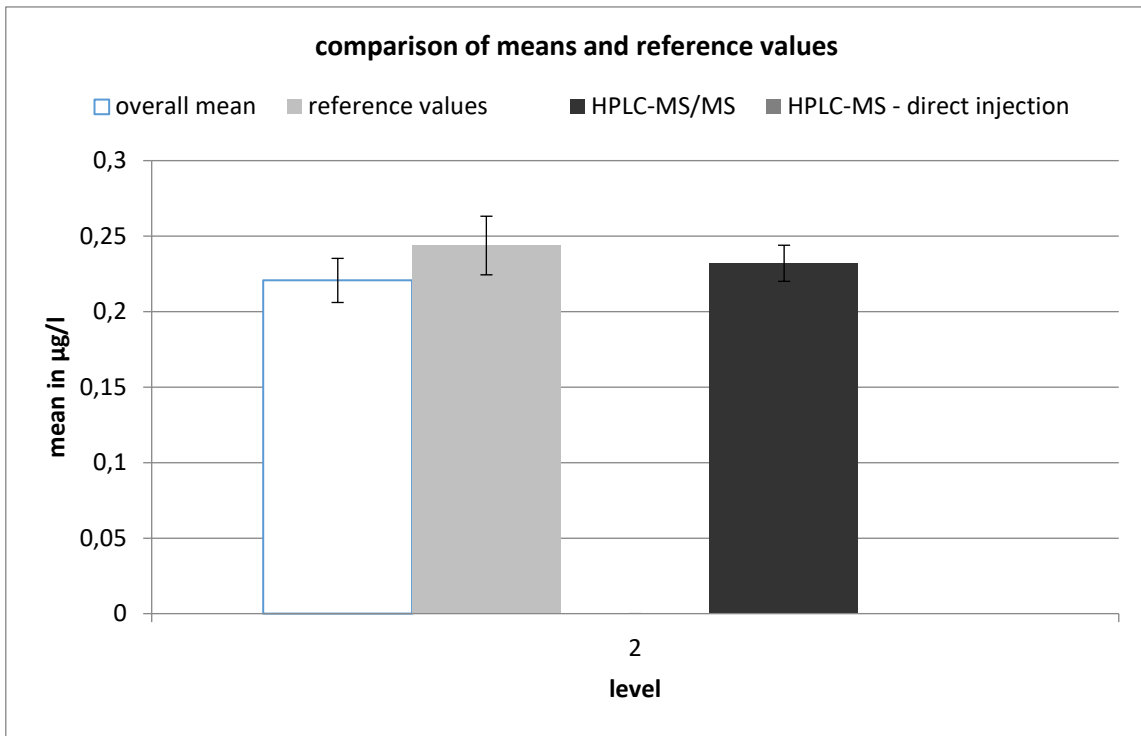


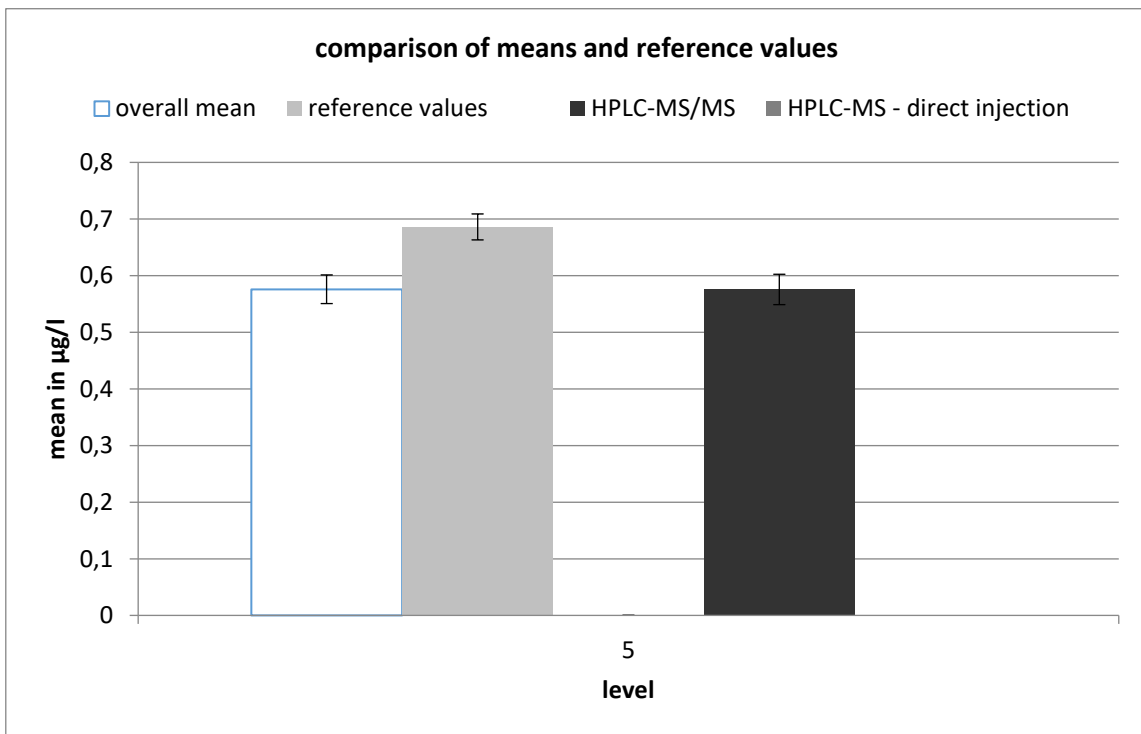
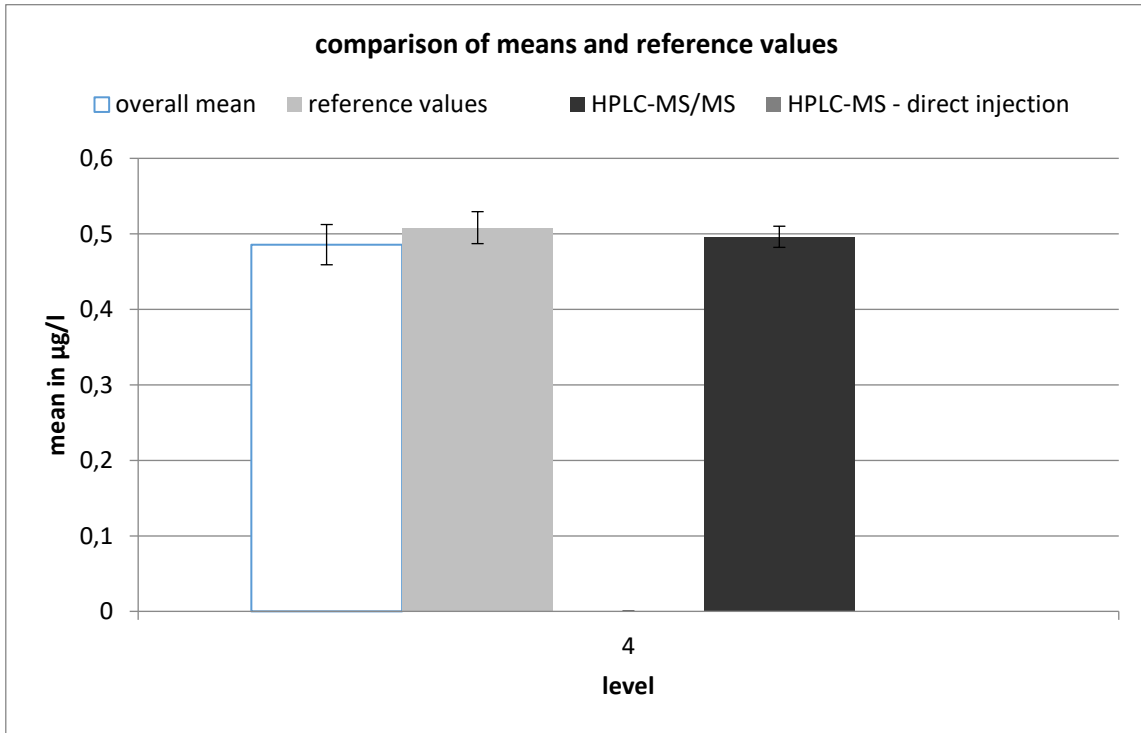
The values measured using GC-MS showed a slight tendency for too low values.

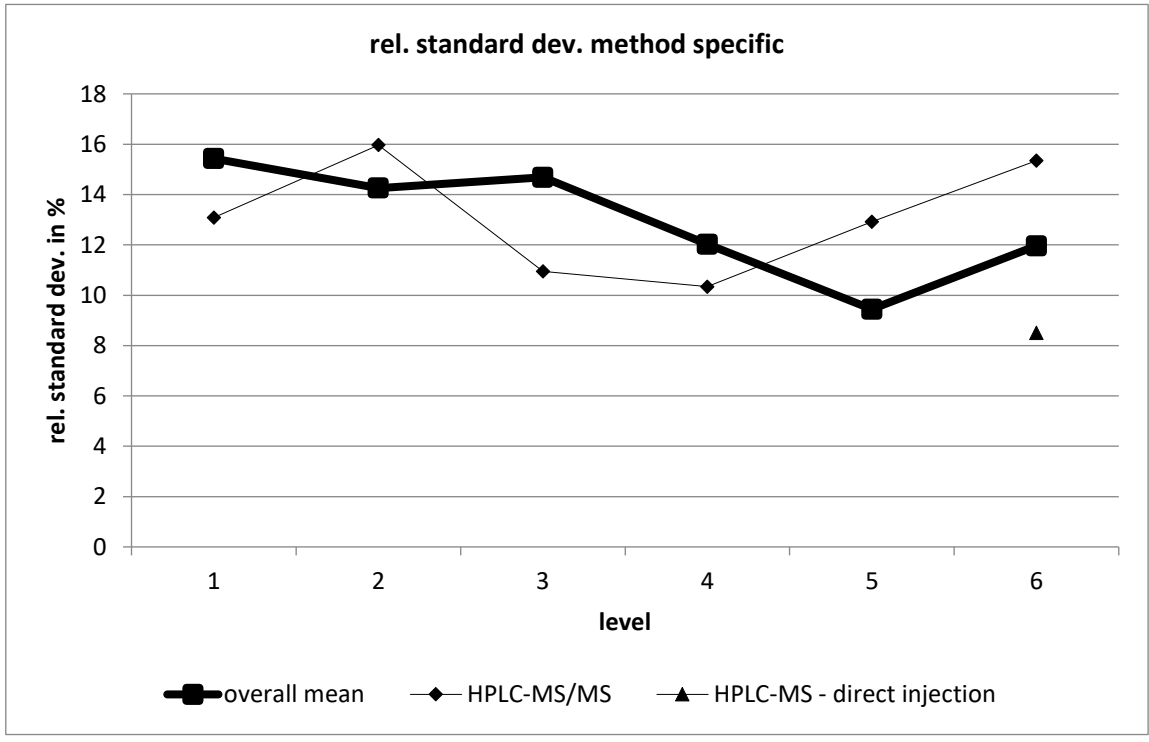
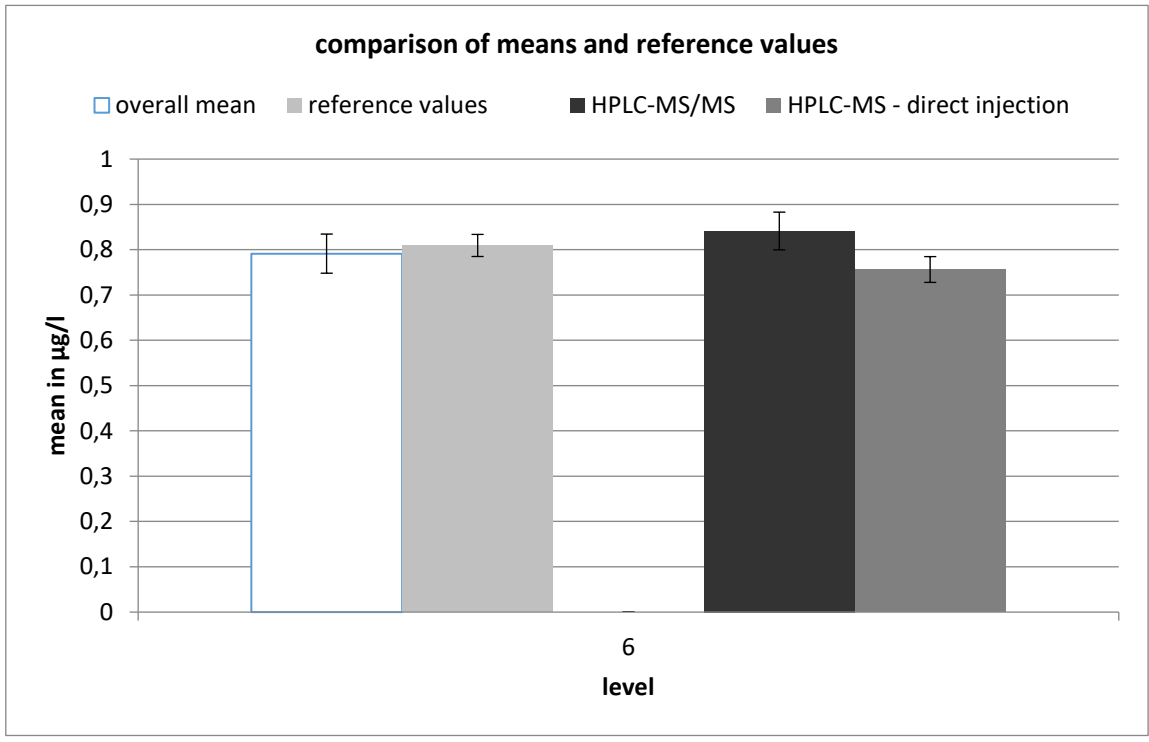
Comparison of means and reference values

level	measured values			reference values		
	mean [$\mu\text{g}/\text{l}$]	exp. uncertainty [$\mu\text{g}/\text{l}$]	exp. uncertainty [%]	reference value [$\mu\text{g}/\text{l}$]	exp. uncertainty [$\mu\text{g}/\text{l}$]	exp. uncertainty [%]
1	0,1809	0,0127	7,0	0,2009	0,0192	9,6
2	0,2207	0,0146	6,6	0,2438	0,0194	8,0
3	0,3253	0,0222	6,8	0,3544	0,0200	5,6
4	0,4857	0,0267	5,5	0,5082	0,0212	4,2
5	0,5759	0,0253	4,4	0,6860	0,0229	3,3
6	0,7913	0,0432	5,5	0,8093	0,0244	3,0









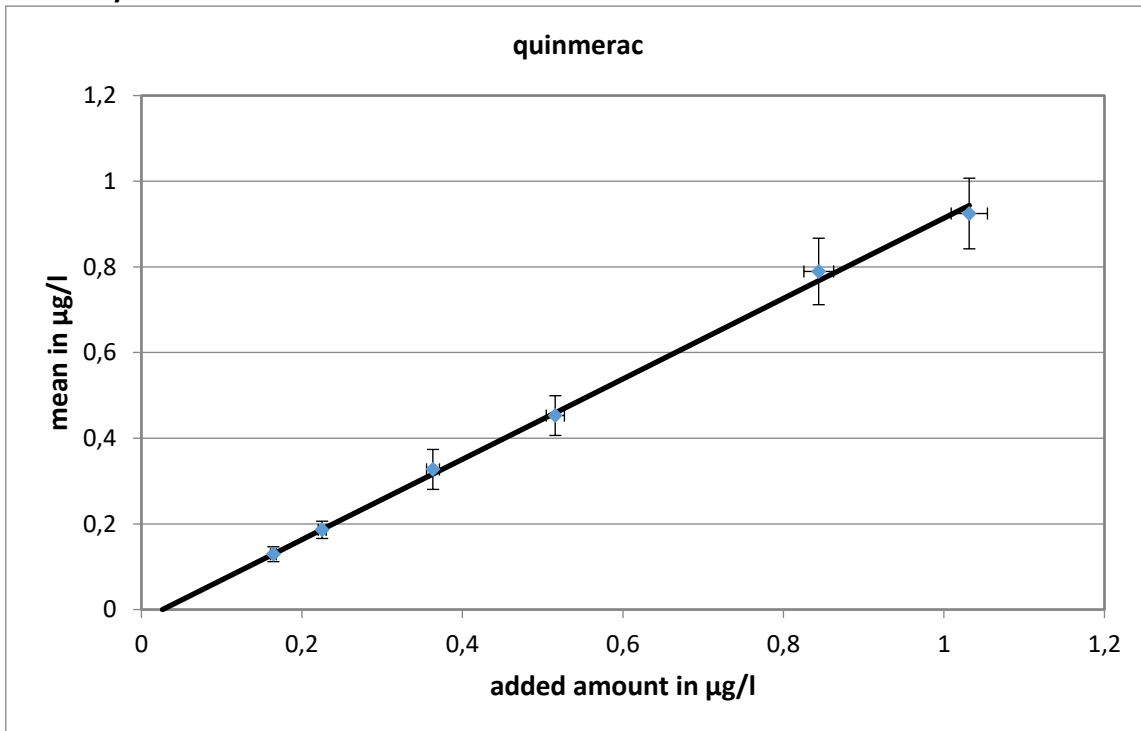
HPLC-MS/MS									
level	robust mean [µg/l]	exp. unc. of the mean [µg/l]	exp. unc. of the mean [%]	robust standard deviation [µg/l]	robust standard deviation [%]	number of results	out below	out above	out [%]
1	0,192	0,008	4,089	0,025	13,09	16	1	2	18,8
2	0,232	0,012	5,153	0,037	15,96	15	0	0	0
3	0,355	0,013	3,658	0,039	10,95	14	2	1	21,4
4	0,496	0,014	2,821	0,051	10,34	21	0	1	4,76
5	0,576	0,027	4,66	0,074	12,92	12	1	0	8,33
6	0,841	0,042	4,952	0,129	15,34	15	2	1	20

HPLC-MS - direct injection									
level	robust mean [µg/l]	exp. unc. of the mean [µg/l]	exp. unc. of the mean [%]	robust standard deviation [µg/l]	robust standard deviation [%]	number of results	out below	out above	out [%]
6	0,756	0,028	3,761	0,064	8,51	8	0	0	0

quinmerac

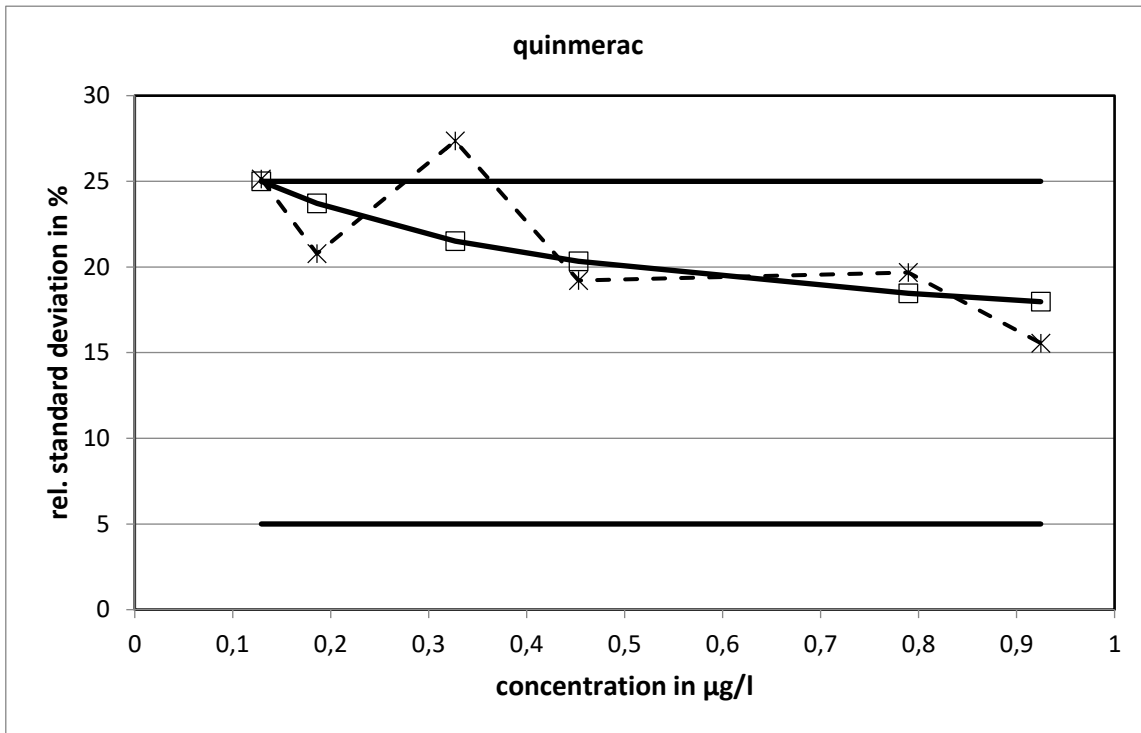
level	assigned value [µg/l]	expanded uncertainty of the assigned value [%]	standard deviation, calculated using robust statistics [µg/l]	standard deviation from variance function [µg/l]	standard deviation for proficiency assessment [µg/l]	standard deviation for proficiency assessment [%]	upper tolerance limit [µg/l]	lower tolerance limit [µg/l]	upper tolerance limit [%]	lower tolerance limit [%]	number of results	out below	out above	out [%]
1	0,1292	13,40	0,0325	0,0326	0,0323	25,00	0,2042	0,0708	57,99	-45,19	22	0	2	9,1
2	0,1861	10,83	0,0387	0,0441	0,0441	23,72	0,2875	0,1060	54,53	-43,05	23	0	2	8,7
3	0,3272	14,26	0,0895	0,0704	0,0704	21,51	0,4866	0,1985	48,73	-39,33	23	1	4	21,7
4	0,4529	10,24	0,0870	0,0921	0,0921	20,34	0,6599	0,2838	45,71	-37,33	22	0	3	13,6
5	0,7894	9,84	0,1553	0,1458	0,1458	18,47	1,113	0,5200	41,03	-34,13	25	1	1	8,0
6	0,9246	8,92	0,1439	0,1662	0,1662	17,97	1,293	0,6170	39,79	-33,27	19	2	1	15,0
sum											134	4	13	12,7

Recovery and matrix content

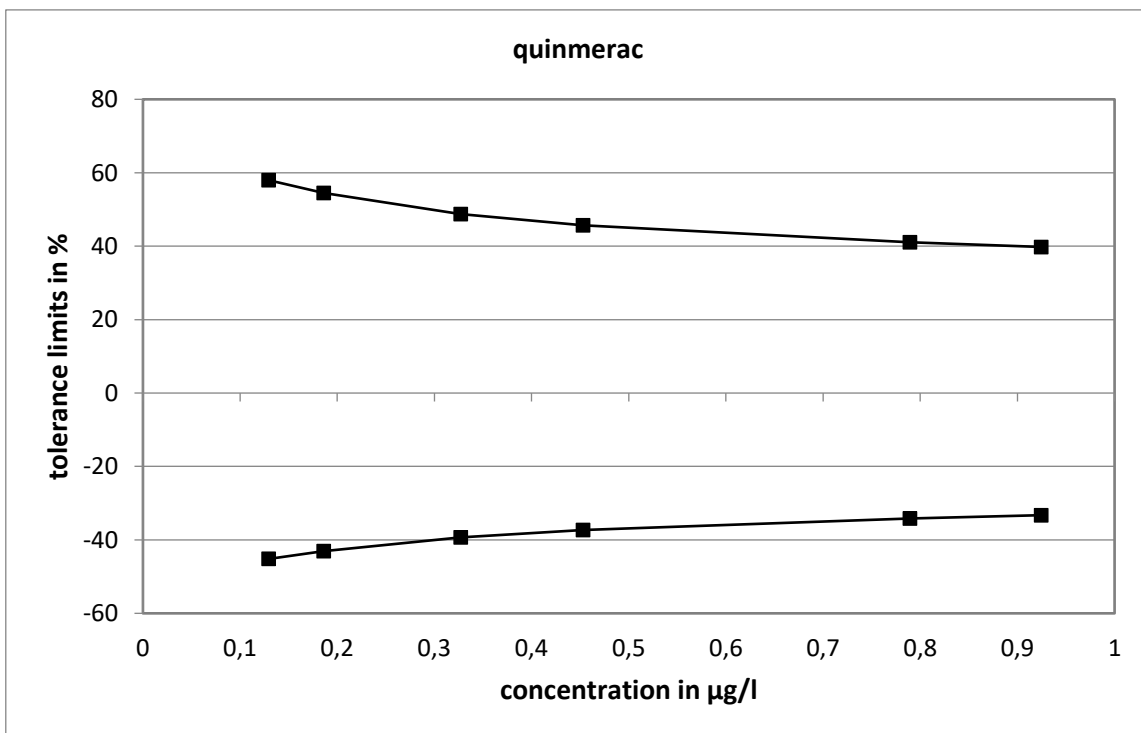


slope of the regression: 0,938; recovery rate: 93,8 %
 neg. x-axis intercept corresponds to the matrix content: 0 µg/l
 expanded uncertainty of the matrix content: 0,026 µg/l = 0 %

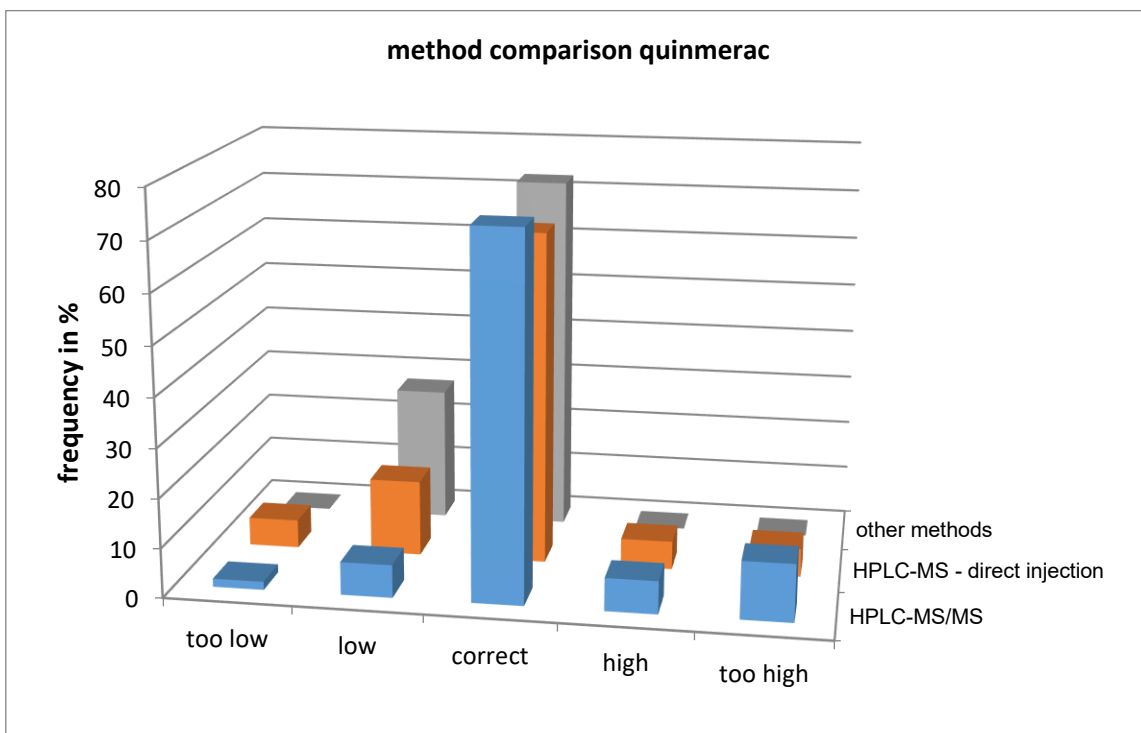
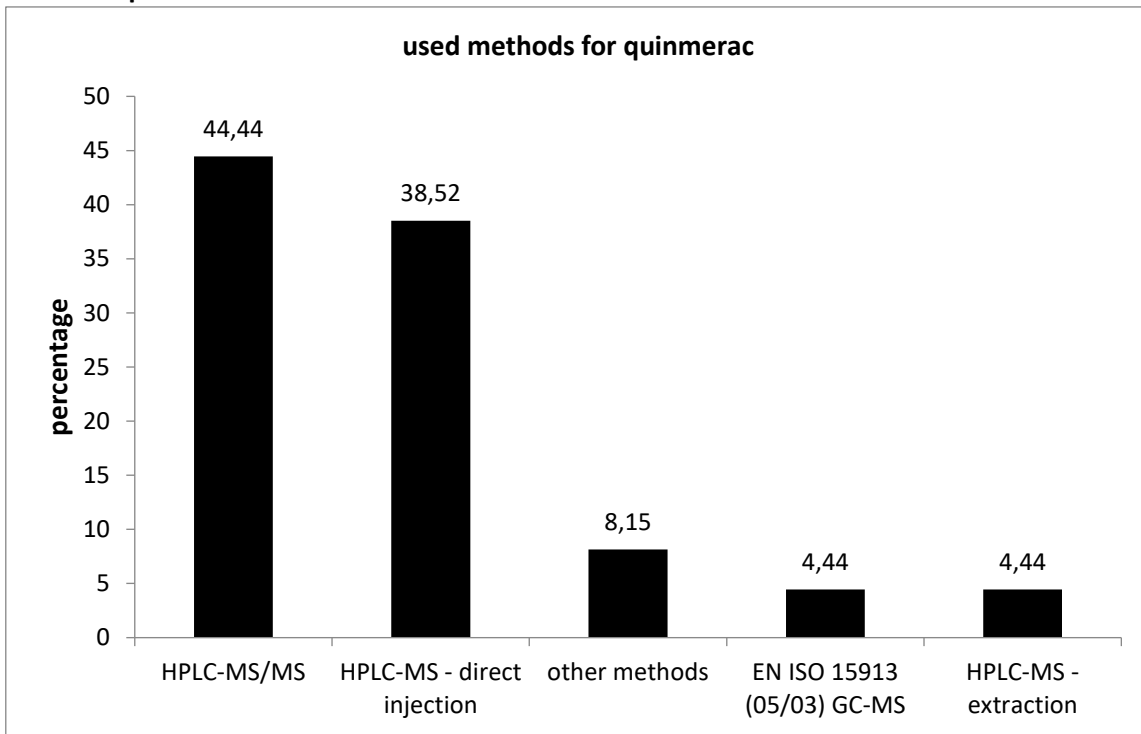
Relative standard deviation and tolerance limits



The relative standard deviations calculated with the variance function reached the upper limit with one concentration level.



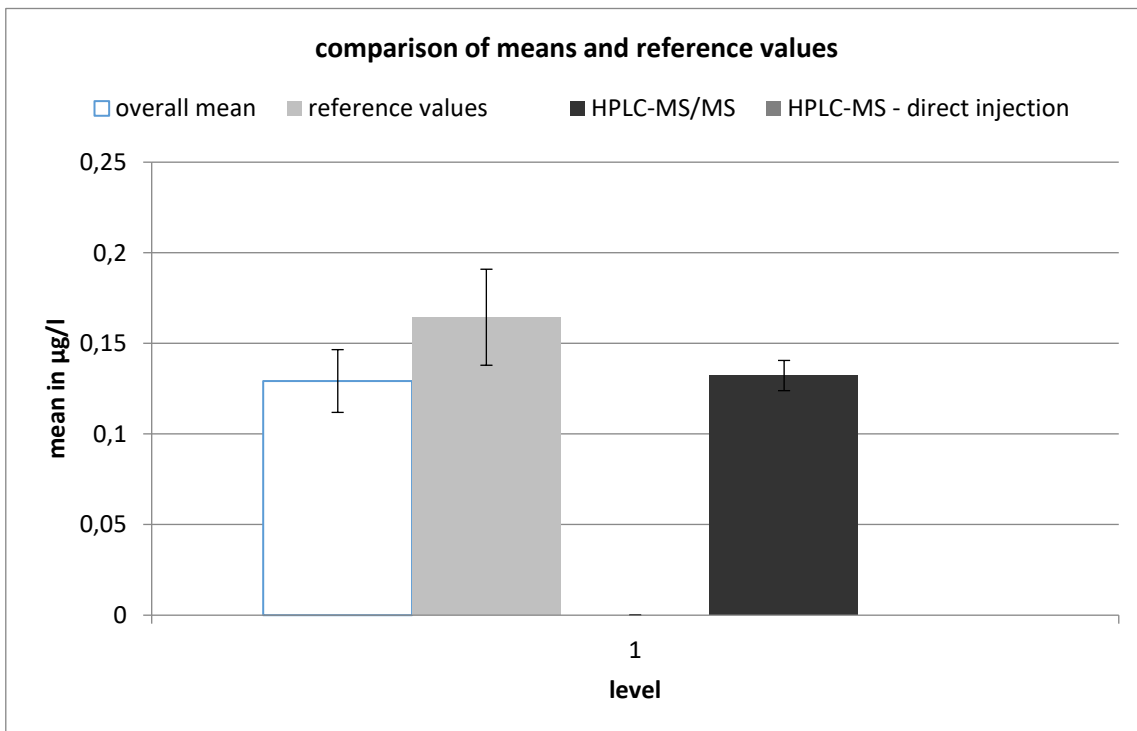
Method specific evaluation

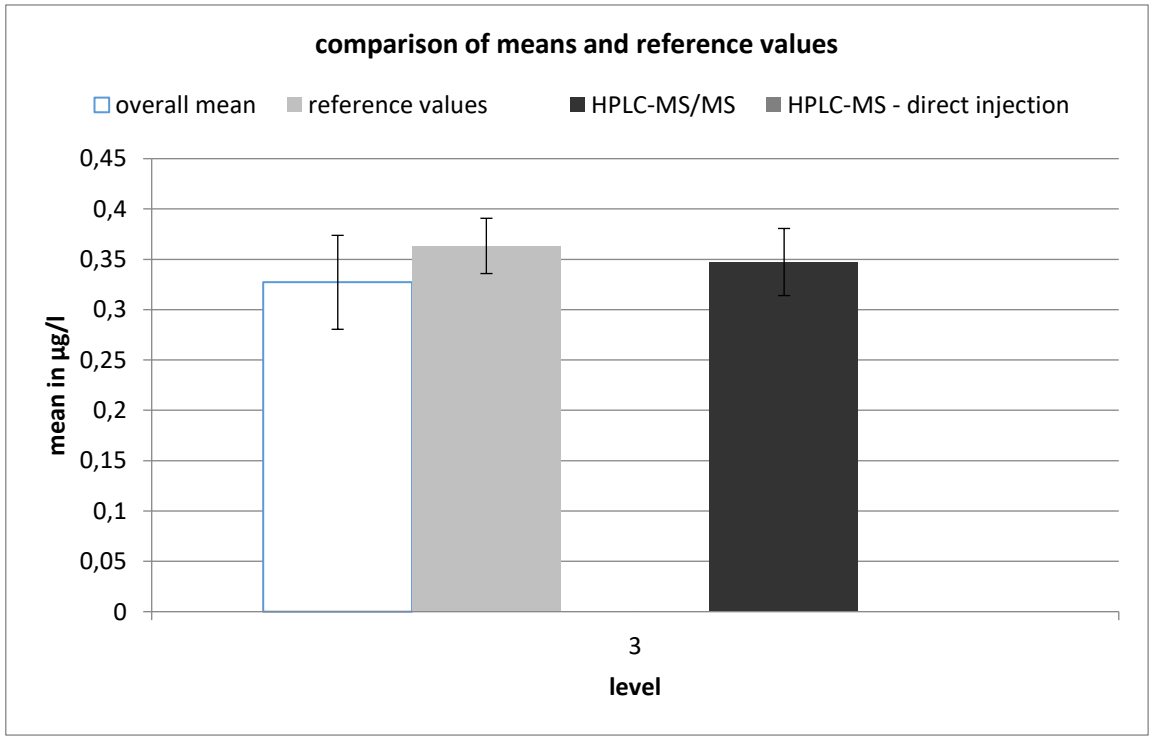
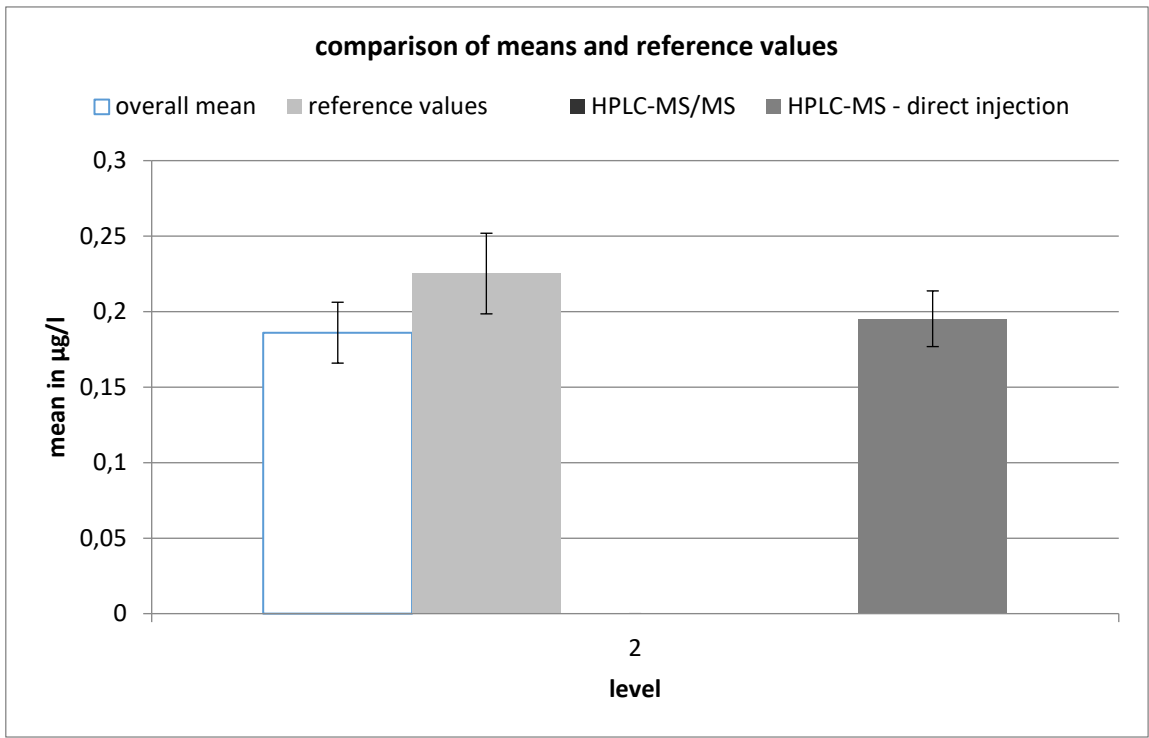


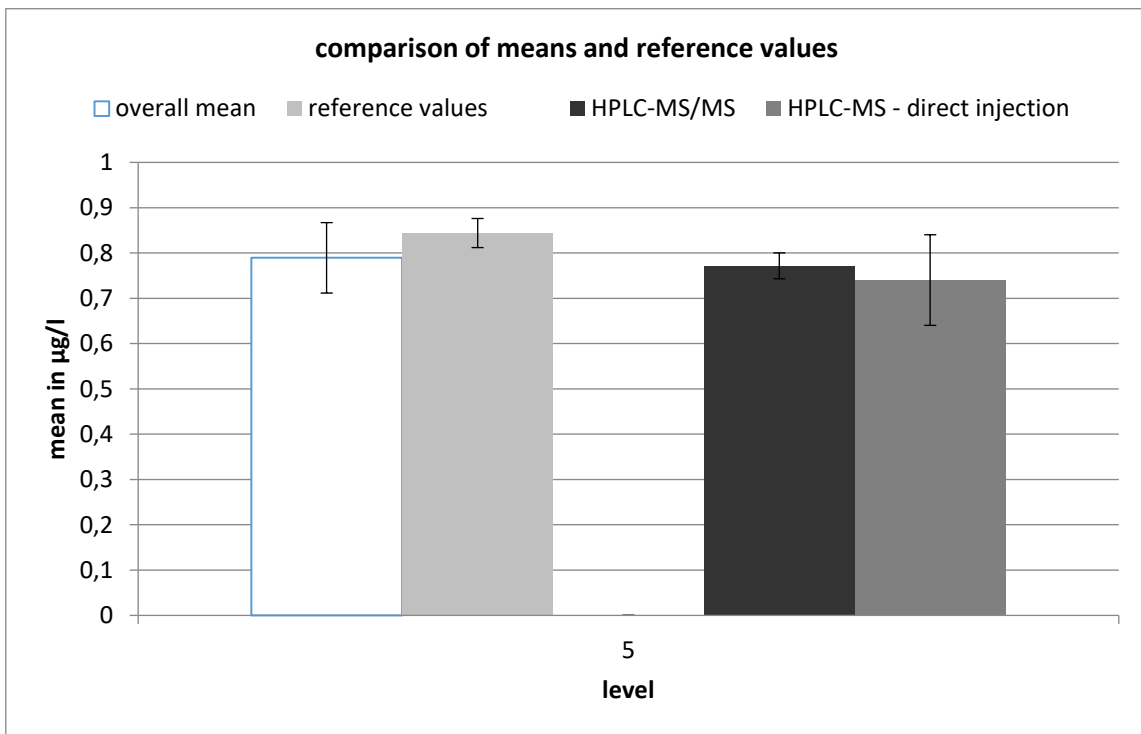
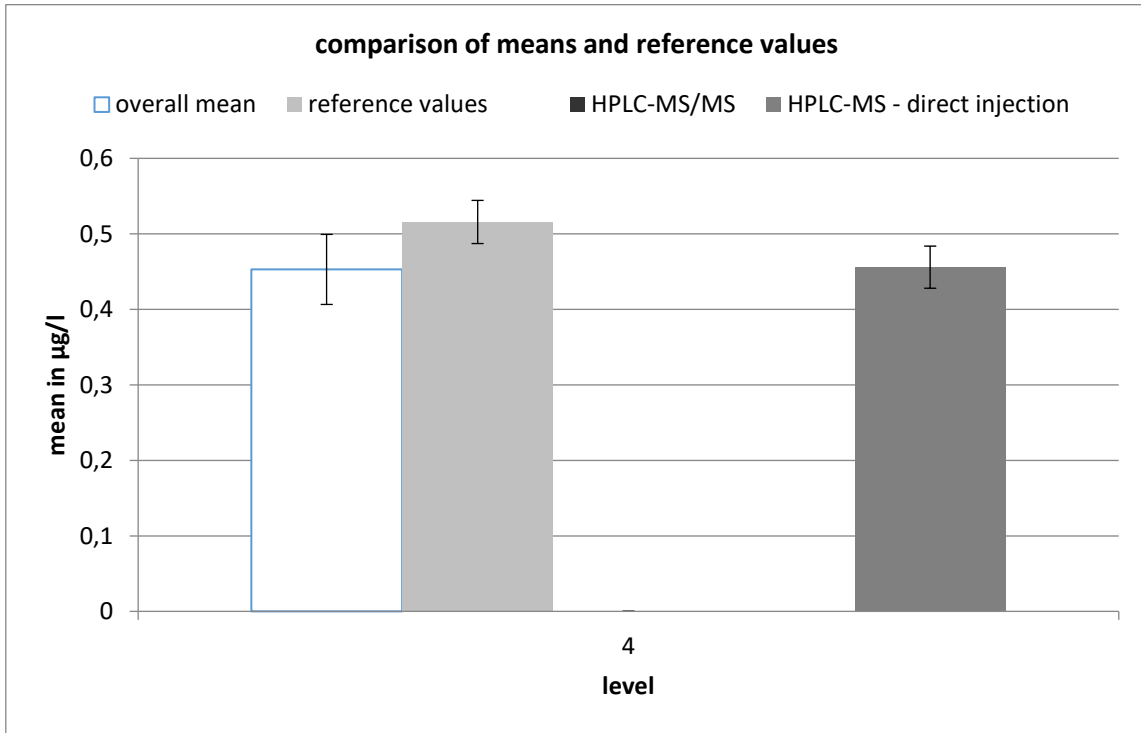
No significant differences were found.

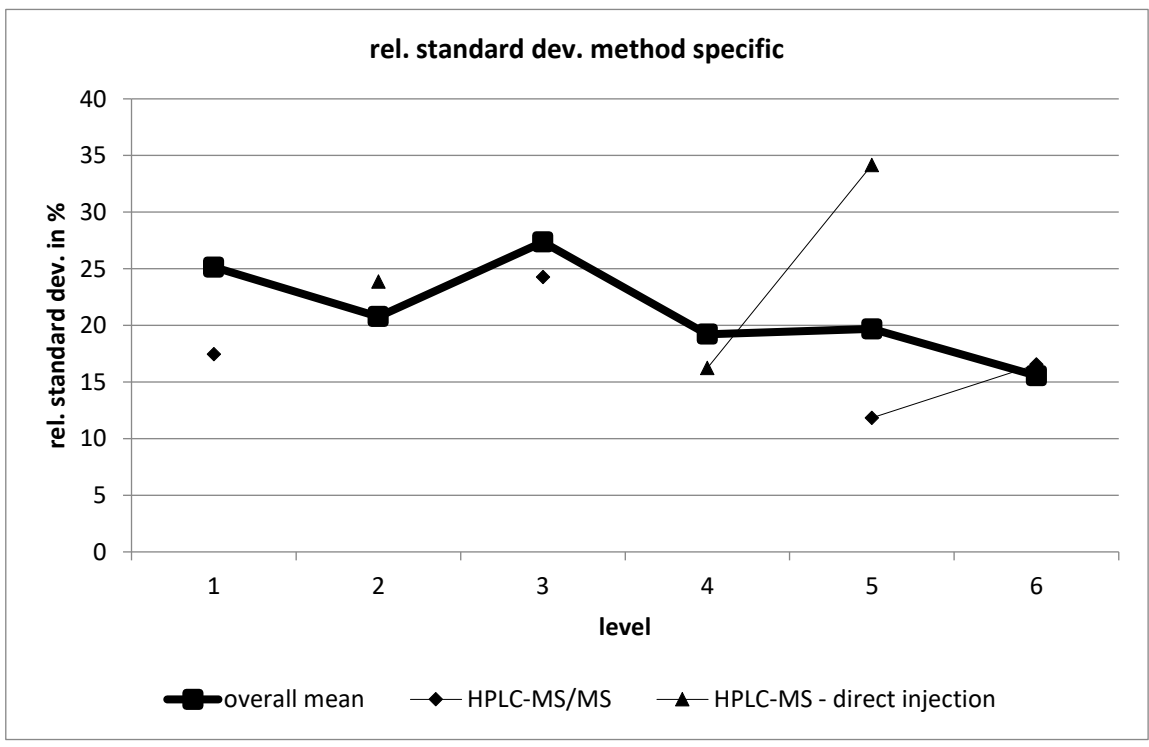
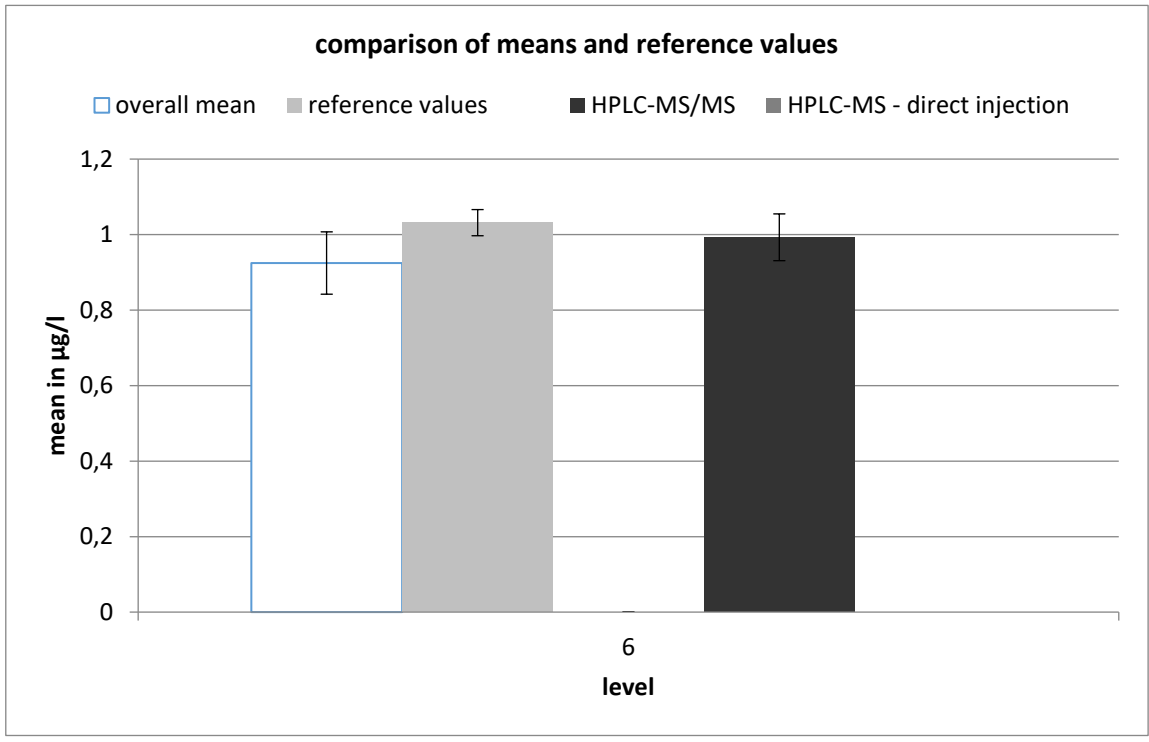
Comparison of means and reference values

level	mean [µg/l]	exp. uncertainty [µg/l]	exp. uncertainty [%]	reference value [µg/l]	exp. uncertainty [µg/l]	exp. uncertainty [%]
1	0,1292	0,0173	13,4	0,1644	0,0265	16,1
2	0,1861	0,0201	10,8	0,2252	0,0267	11,9
3	0,3272	0,0467	14,3	0,3633	0,0274	7,6
4	0,4529	0,0464	10,2	0,5157	0,0286	5,5
5	0,7894	0,0777	9,8	0,8440	0,0321	3,8
6	0,9246	0,0825	8,9	1,0316	0,0346	3,4









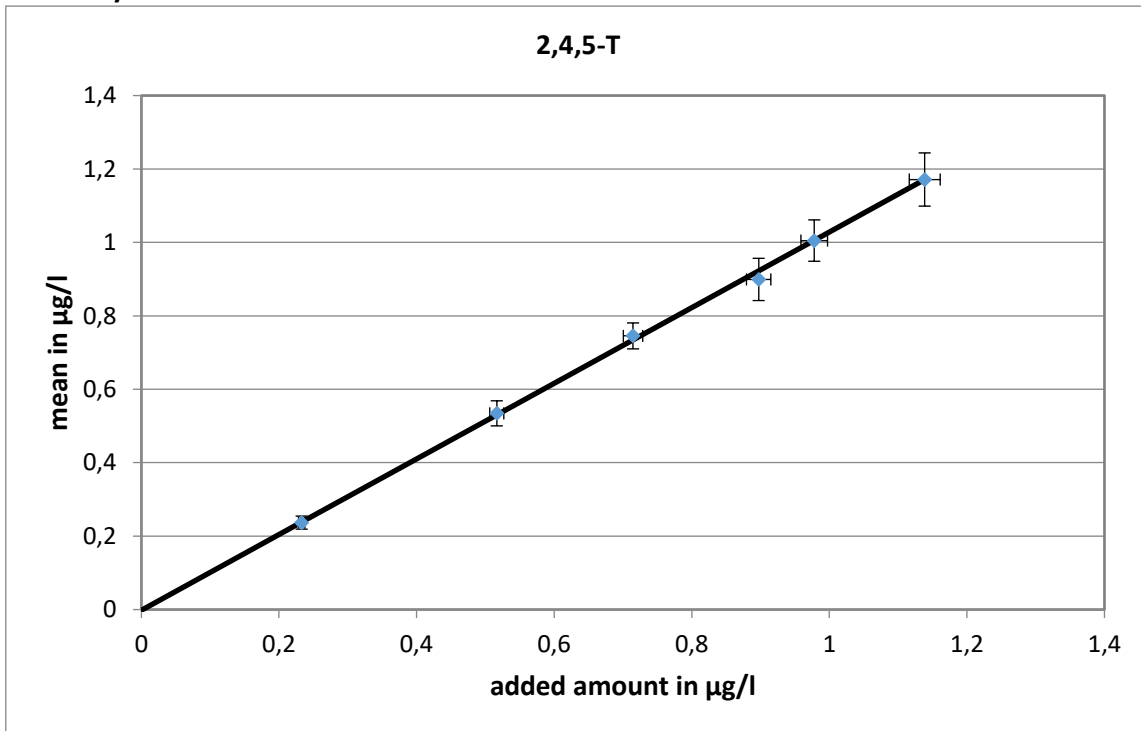
HPLC-MS/MS									
level	robust mean [µg/l]	exp. unc. of the mean [µg/l]	exp. unc. of the mean [%]	robust standard deviation [µg/l]	robust standard deviation [%]	number of results	out below	out above	out [%]
1	0,132	0,008	6,304	0,023	17,47	12	0	2	16,7
3	0,347	0,033	9,597	0,084	24,28	10	1	1	20
5	0,772	0,029	3,7	0,091	11,84	16	1	3	25
6	0,993	0,062	6,236	0,164	16,55	11	1	0	9,09

HPLC-MS - direct injection									
level	robust mean [µg/l]	exp. unc. of the mean [µg/l]	exp. unc. of the mean [%]	robust standard deviation [µg/l]	robust standard deviation [%]	number of results	out below	out above	out [%]
2	0,195	0,018	9,434	0,047	23,87	10	0	1	10
4	0,456	0,028	6,12	0,074	16,24	11	0	2	18,2
5	0,74	0,1	13,51	0,253	34,18	10	0	0	0

2,4,5-T

level	assigned value [µg/l]	expanded uncertainty of the assigned value [%]	standard deviation, calculated using robust statistics [µg/l]	standard deviation from variance function [µg/l]	standard deviation for proficiency assessment [µg/l]	standard deviation for proficiency assessment [%]	upper tolerance limit [µg/l]	lower tolerance limit [µg/l]	upper tolerance limit [%]	lower tolerance limit [%]	number of results	out below	out above	out [%]
1	0,2369	7,51	0,0370	0,0353	0,0353	14,88	0,3135	0,1709	32,33	-27,87	27	2	2	14,8
2	0,5344	6,40	0,0698	0,0694	0,0694	12,99	0,6834	0,4034	27,90	-24,51	26	1	2	11,5
3	0,7453	4,75	0,0749	0,0916	0,0916	12,29	0,9411	0,5720	26,28	-23,25	28	2	1	10,7
4	0,8992	6,40	0,1127	0,1071	0,1071	11,91	1,128	0,6963	25,41	-22,56	24	2	0	8,3
5	1,005	5,60	0,1190	0,1175	0,1175	11,69	1,255	0,7822	24,91	-22,17	28	2	2	14,3
6	1,171	6,18	0,1477	0,1334	0,1334	11,39	1,455	0,9179	24,23	-21,63	26	3	1	15,4
sum											159	12	8	12,6

Recovery and matrix content

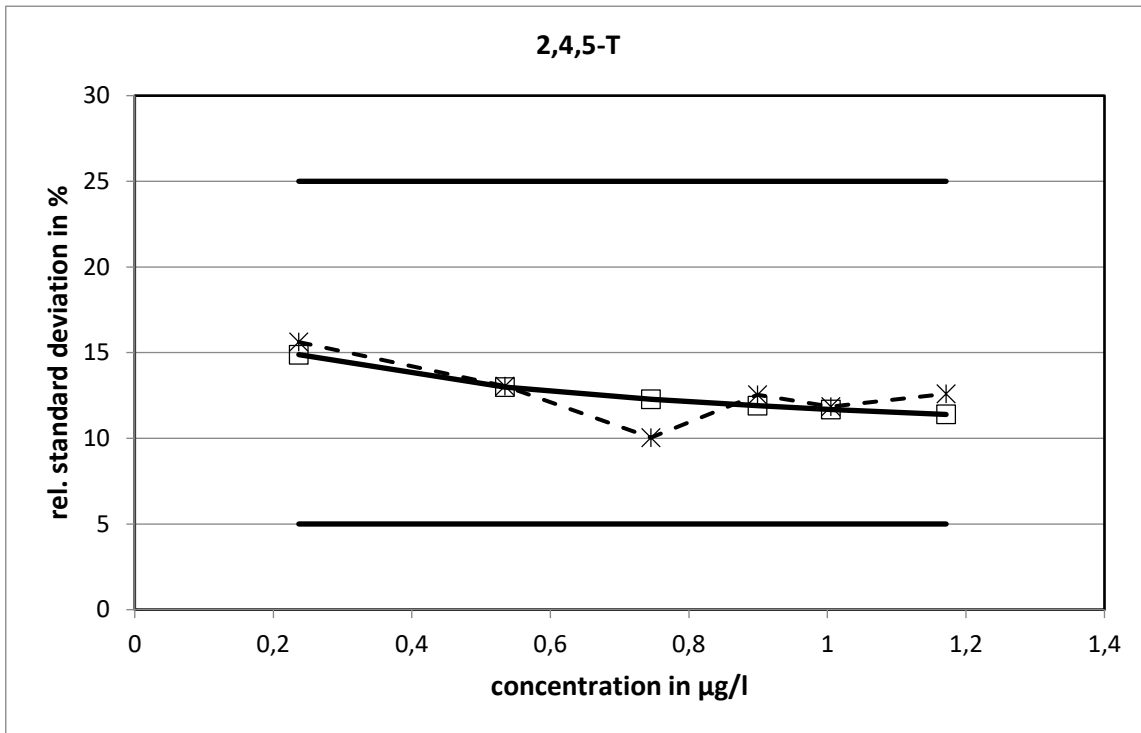


slope of the regression: 1,03; recovery rate: 103 %

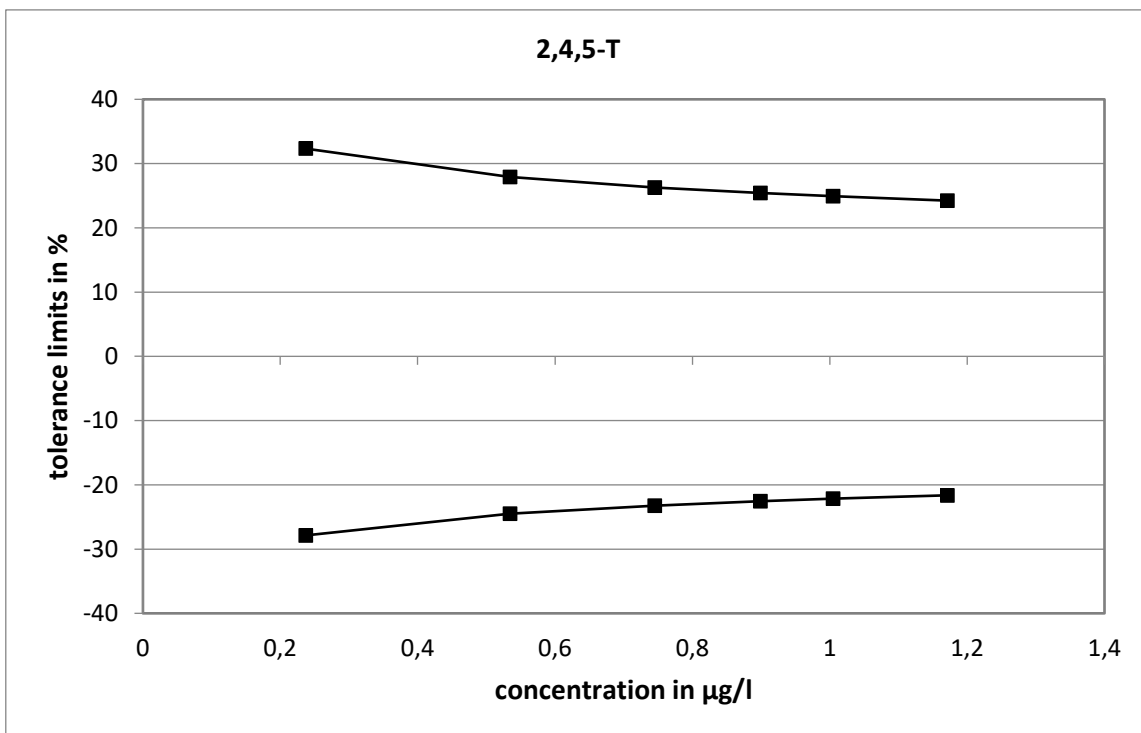
neg. x-axis intercept corresponds to the matrix content: 0 µg/l

expanded uncertainty of the matrix content: 0,018 µg/l = 0 %

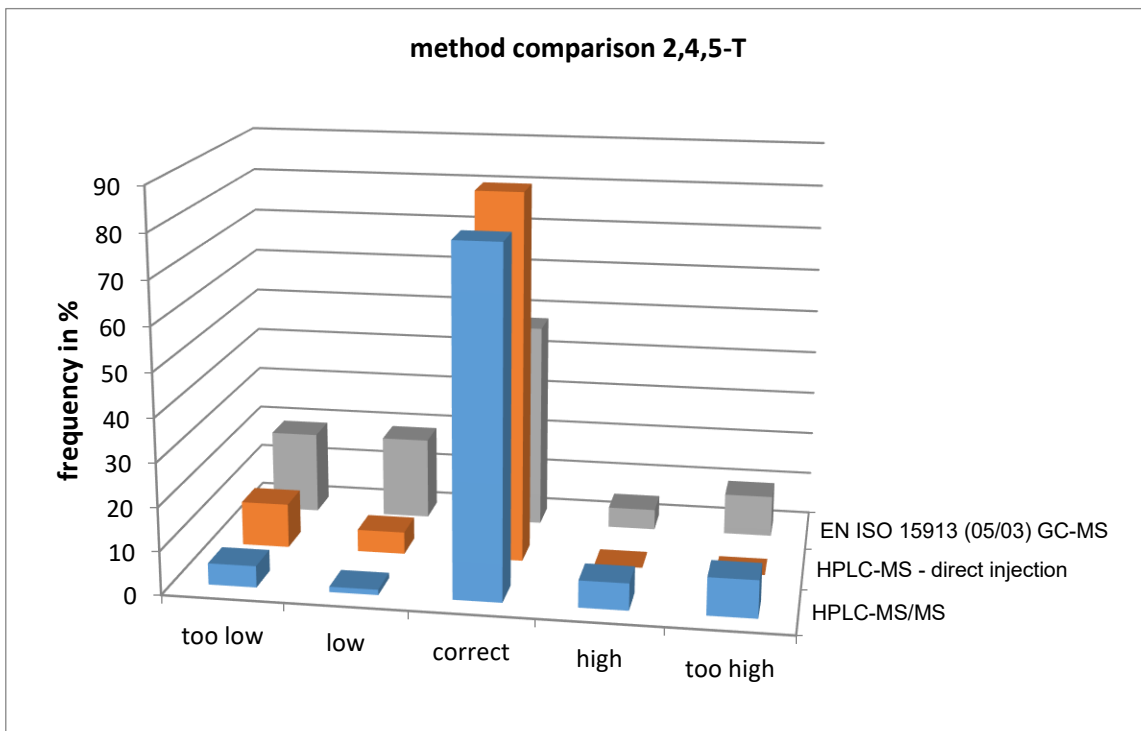
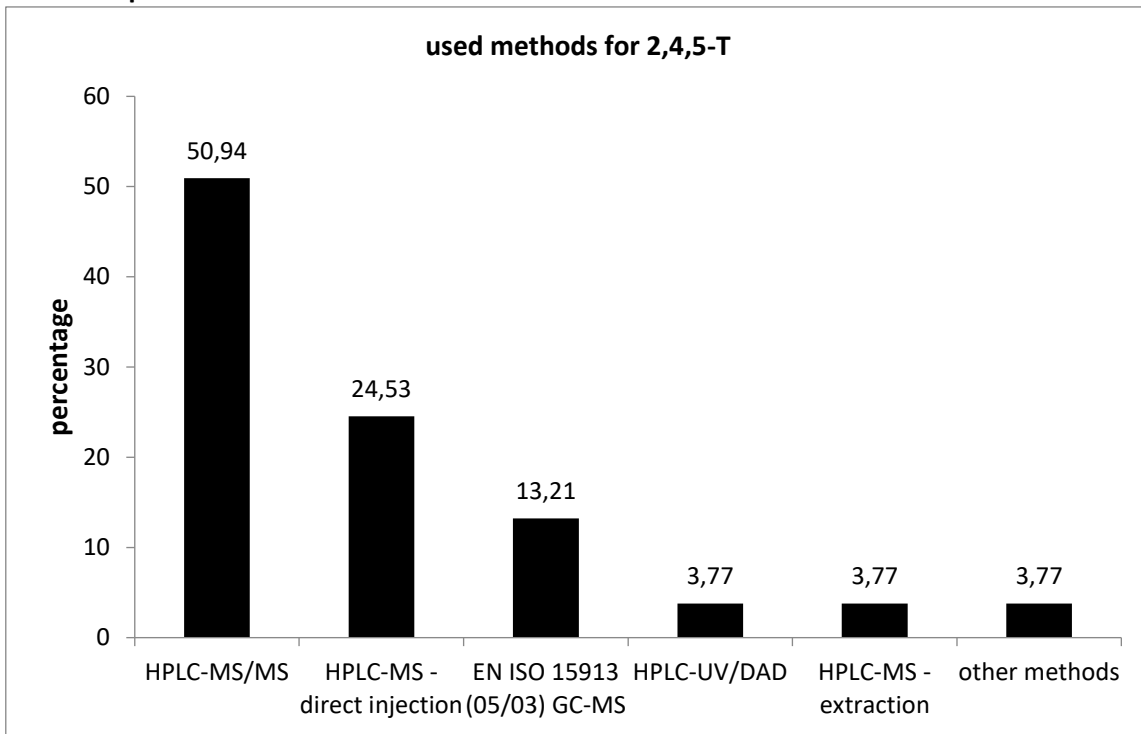
Relative standard deviation and tolerance limits



The relative standard deviations calculated with the variance function did not reach the limits.



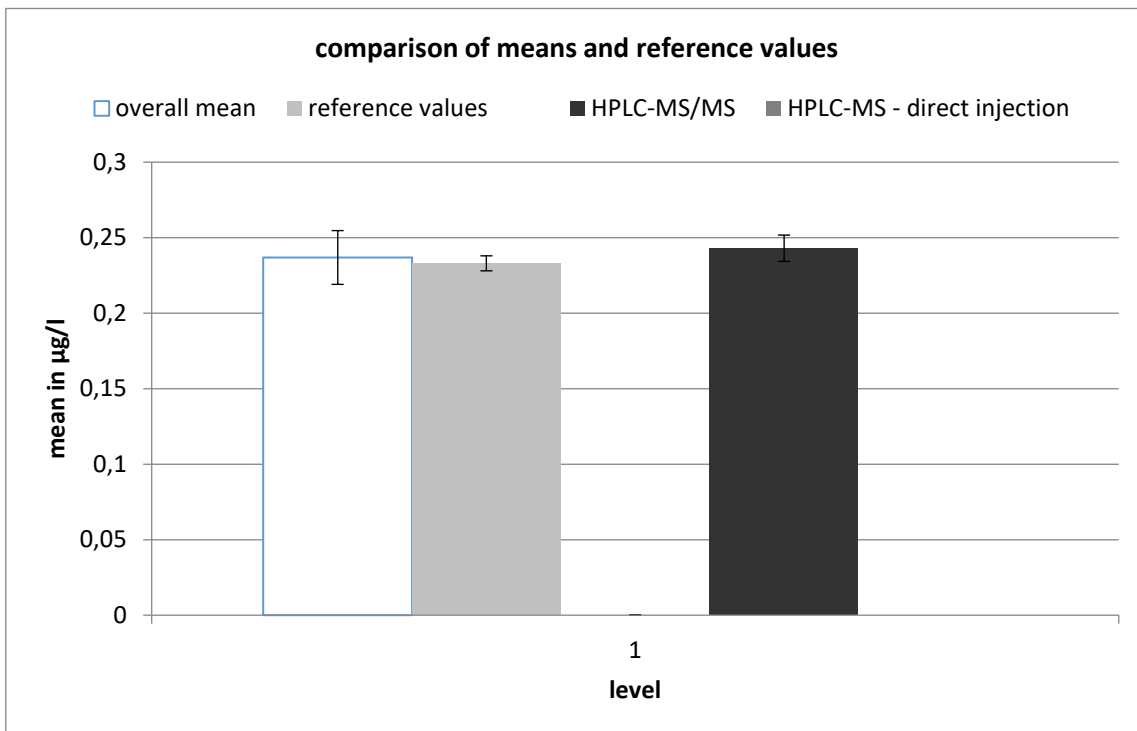
Method specific evaluation

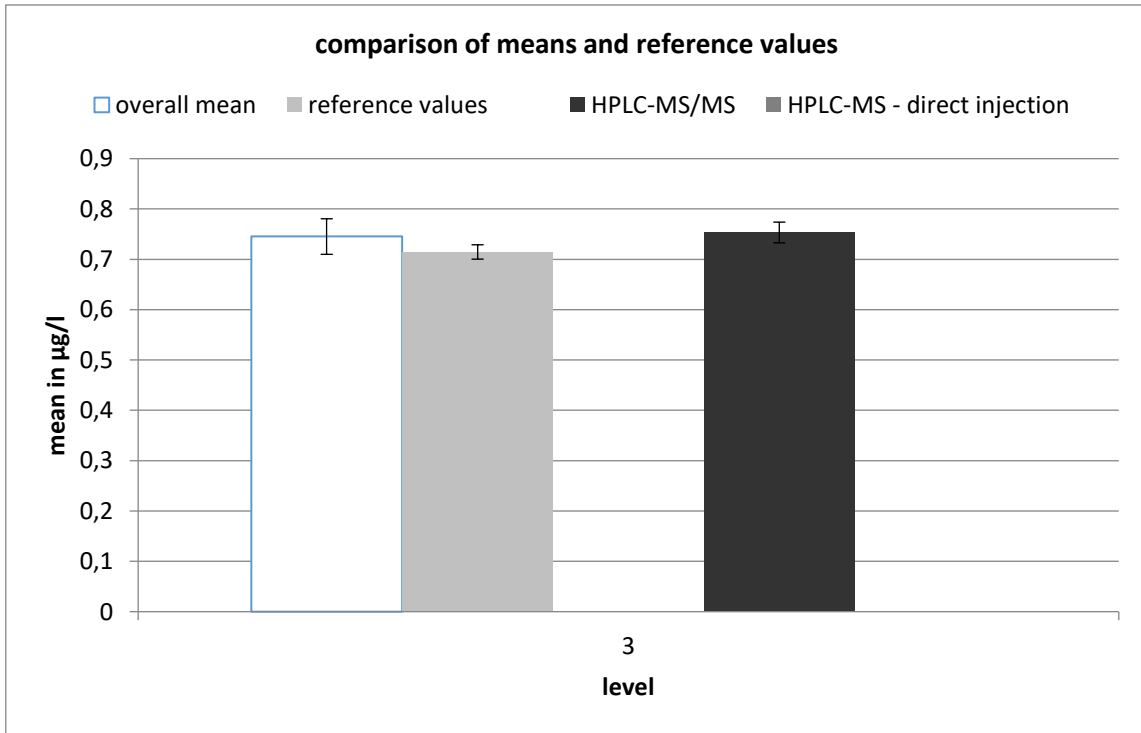
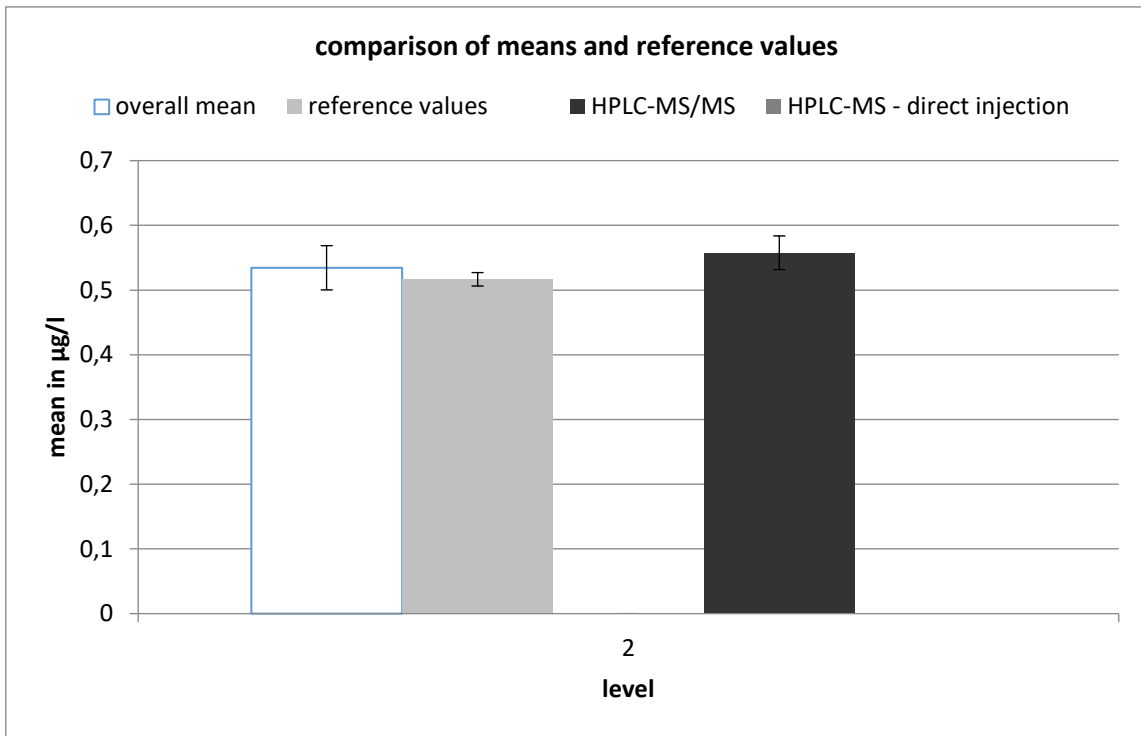


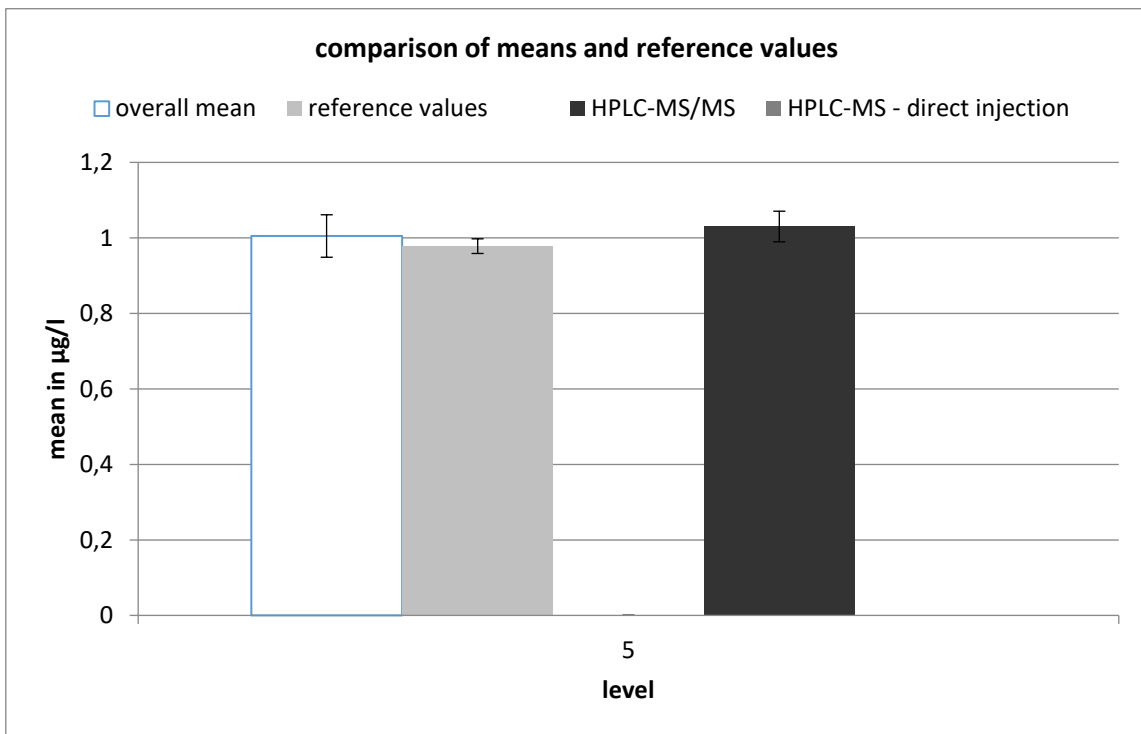
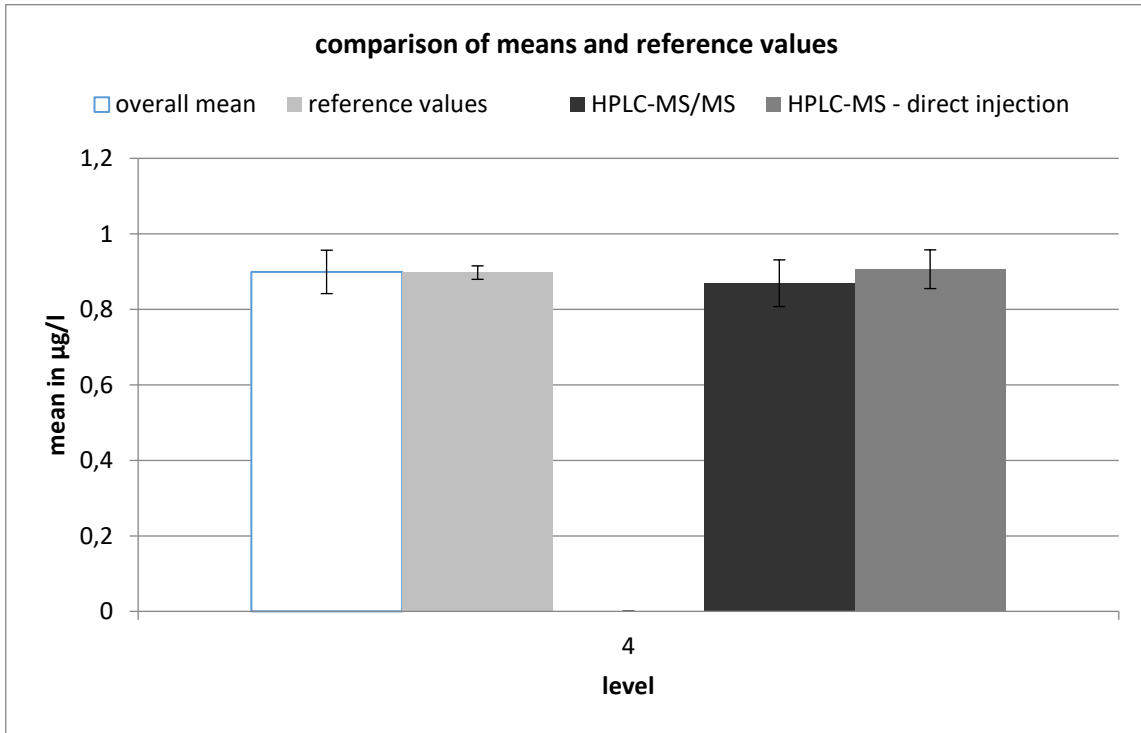
The values measured with GC-MS showed a broader statistical distribution.

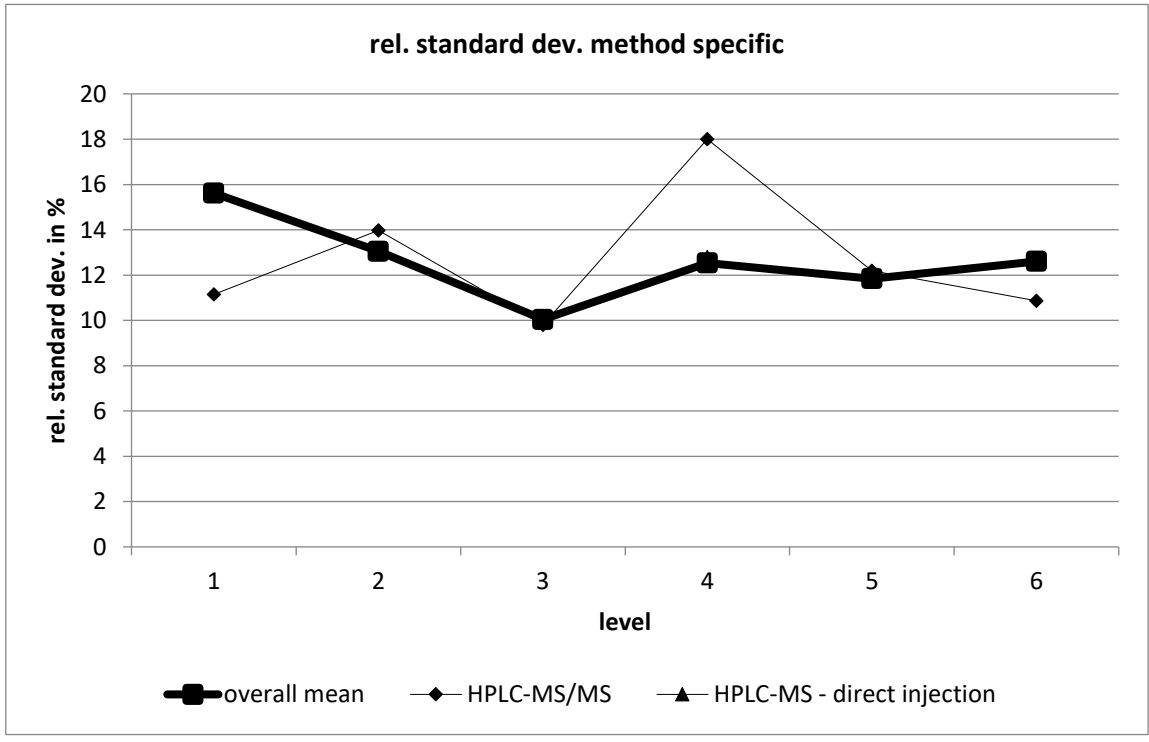
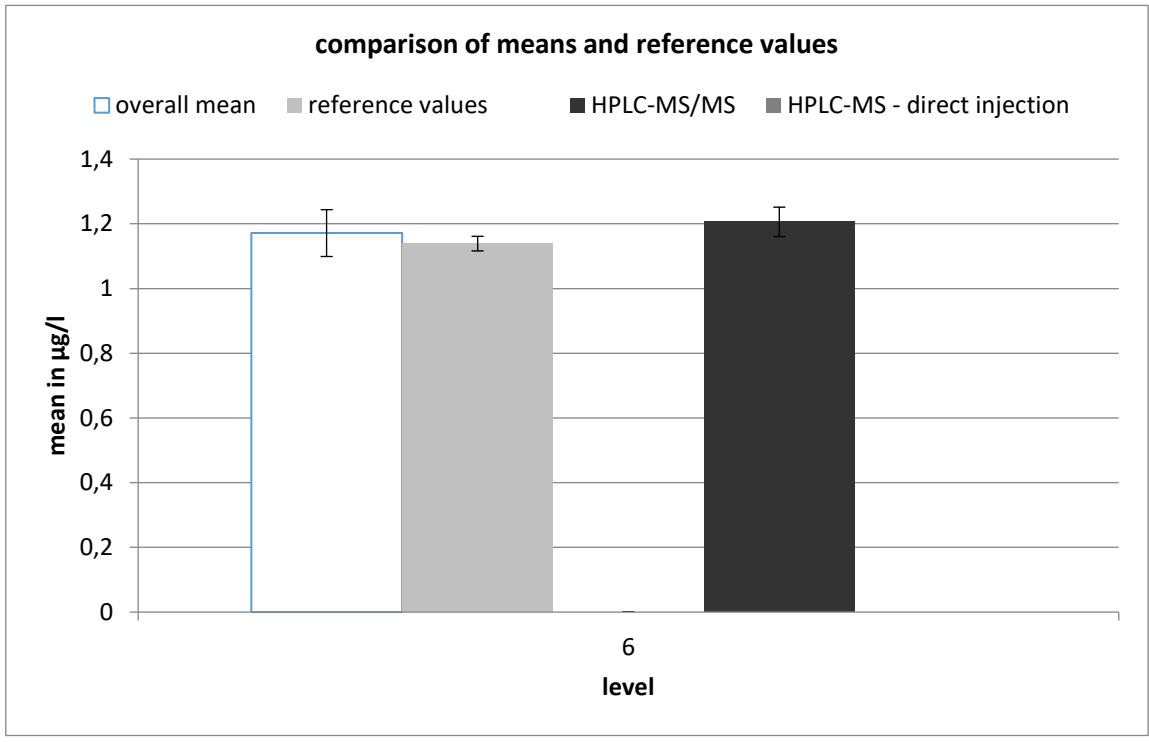
Comparison of means and reference values

level	mean [µg/l]	exp. uncertainty [µg/l]	exp. uncertainty [%]	reference value [µg/l]	exp. uncertainty [µg/l]	exp. uncertainty [%]
1	0,2369	0,0178	7,5	0,2330	0,0050	2,1
2	0,5344	0,0342	6,4	0,5166	0,0104	2,0
3	0,7453	0,0354	4,7	0,7147	0,0142	2,0
4	0,8992	0,0575	6,4	0,8973	0,0178	2,0
5	1,005	0,056	5,6	0,978	0,019	2,0
6	1,171	0,072	6,2	1,139	0,023	2,0



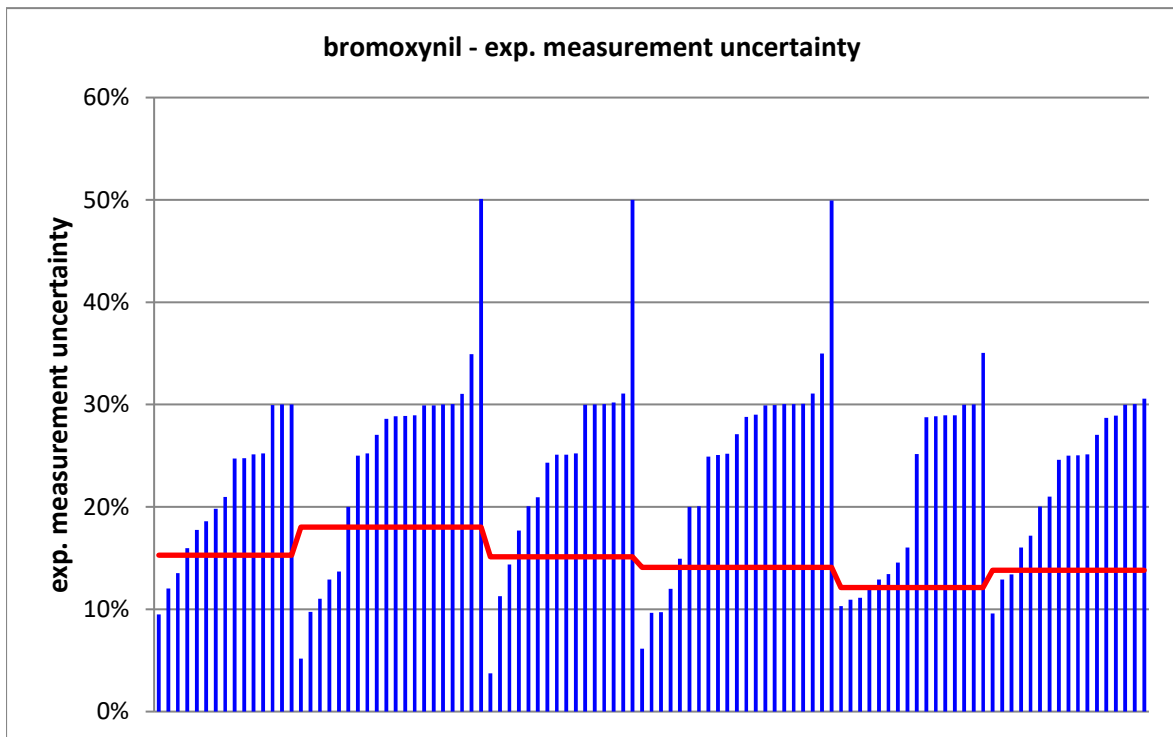
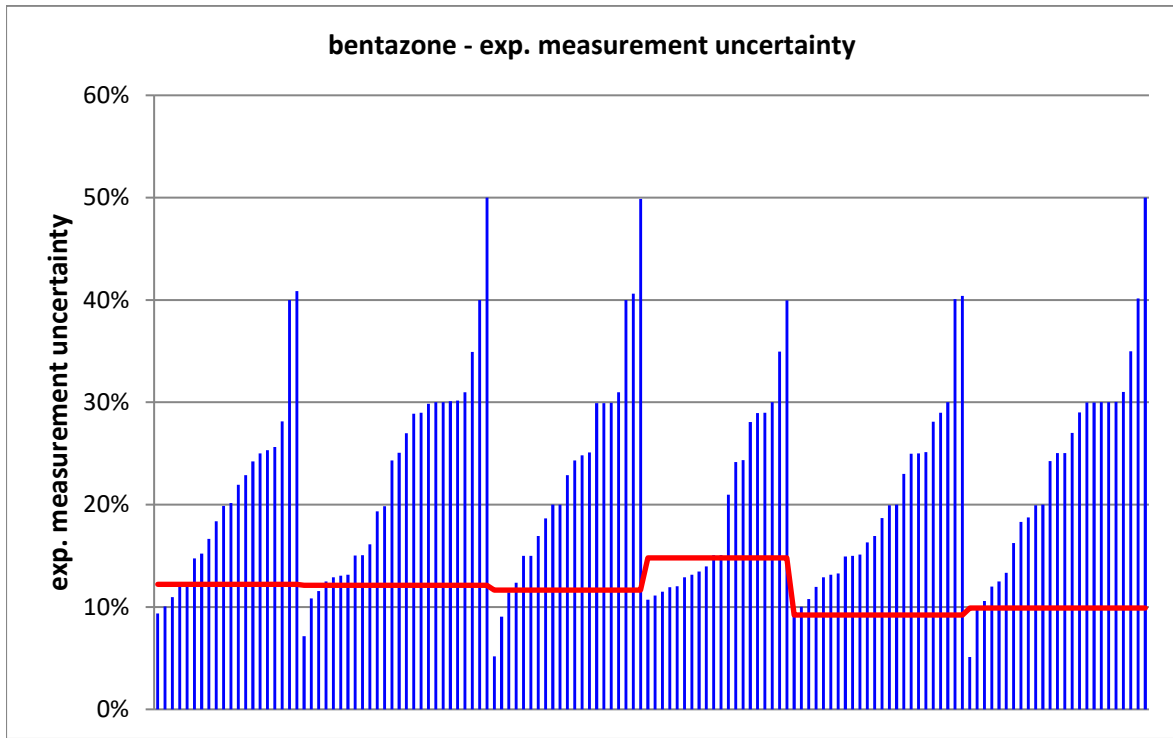


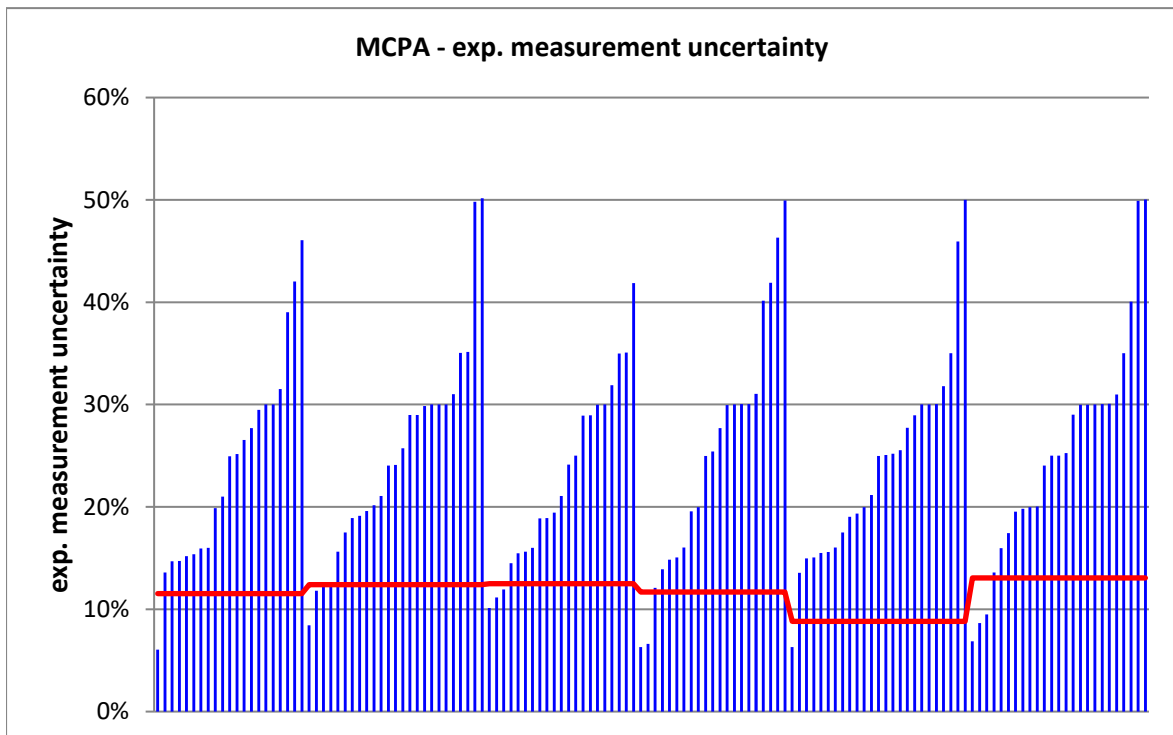
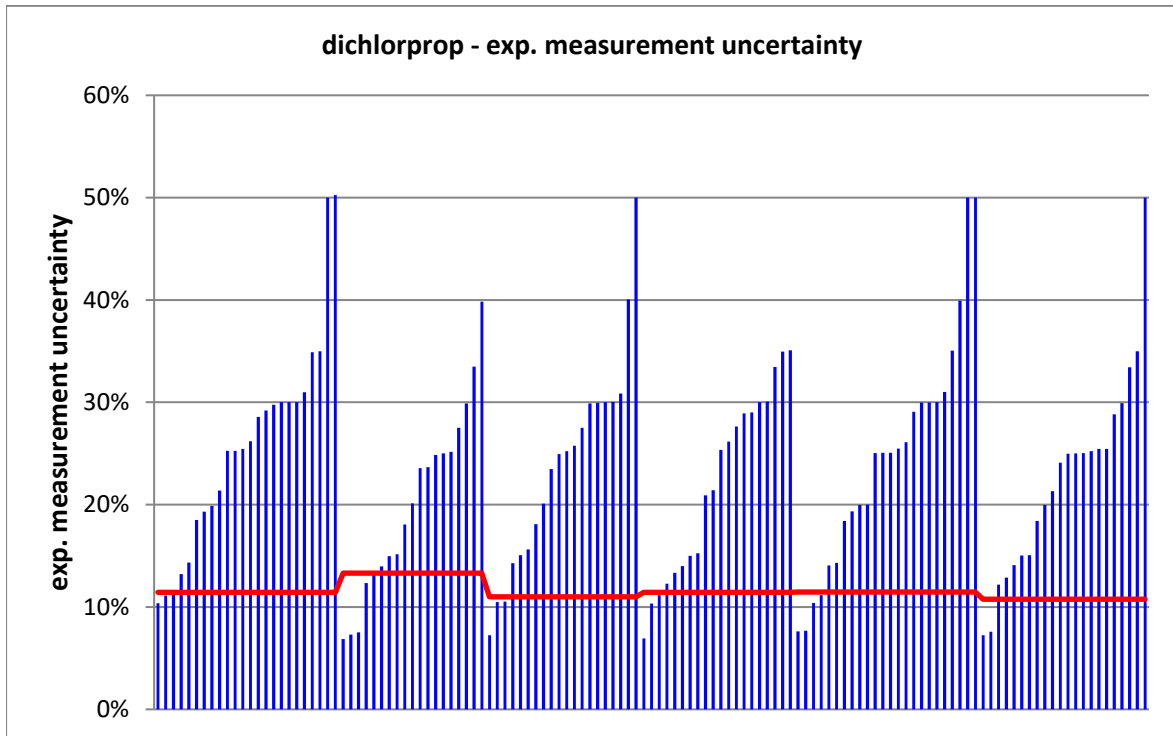


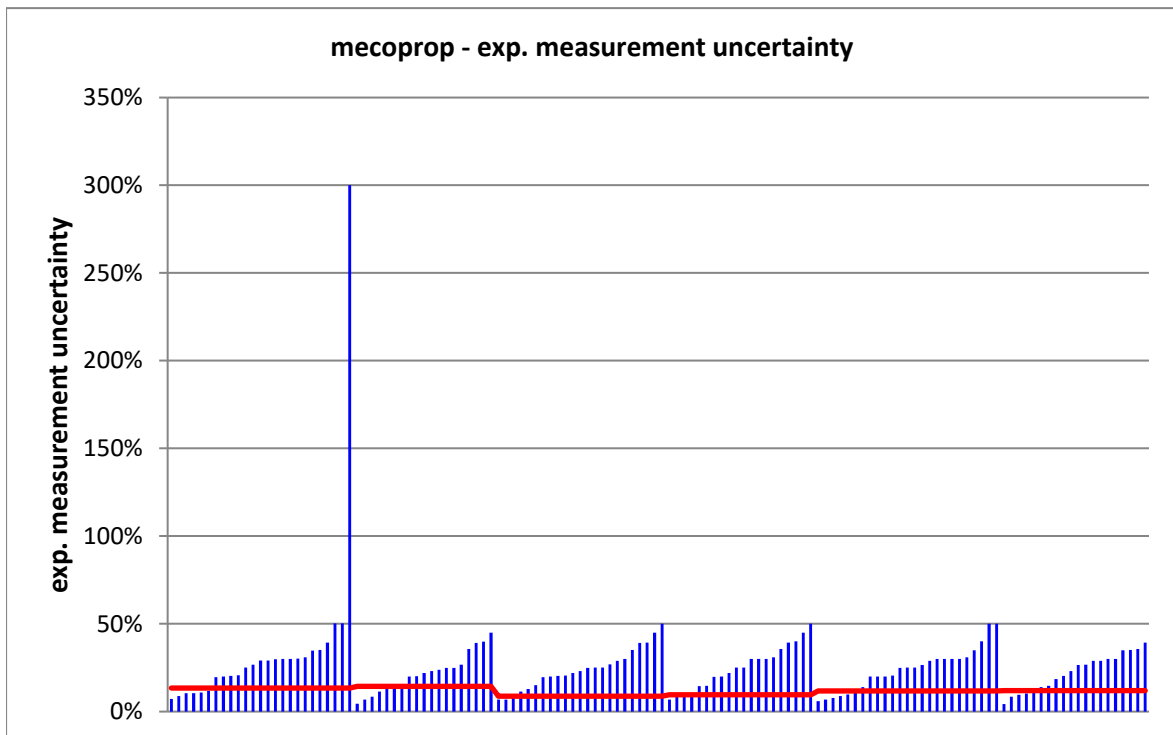
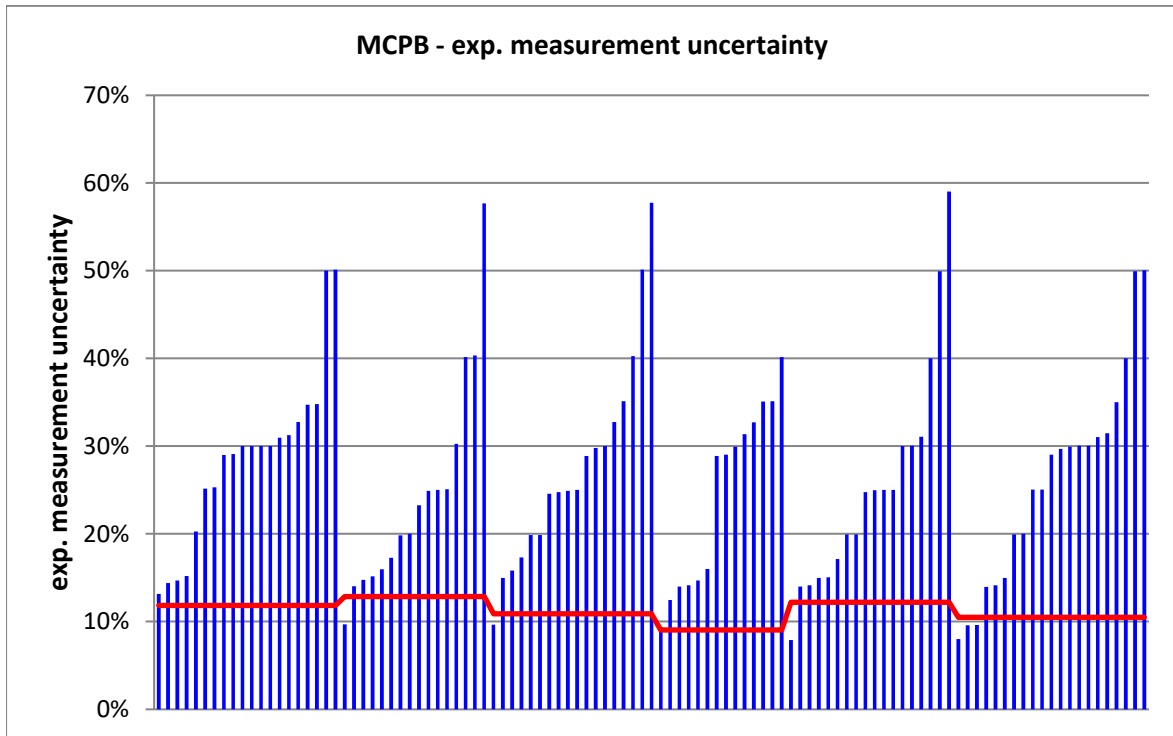


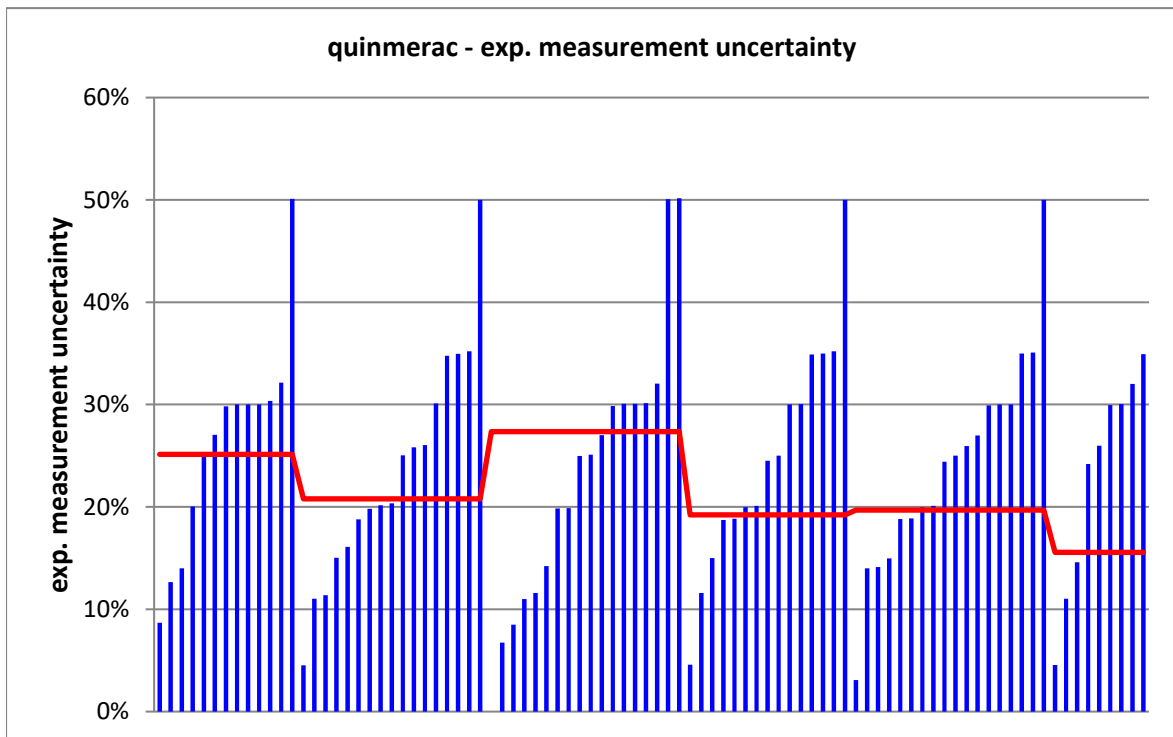
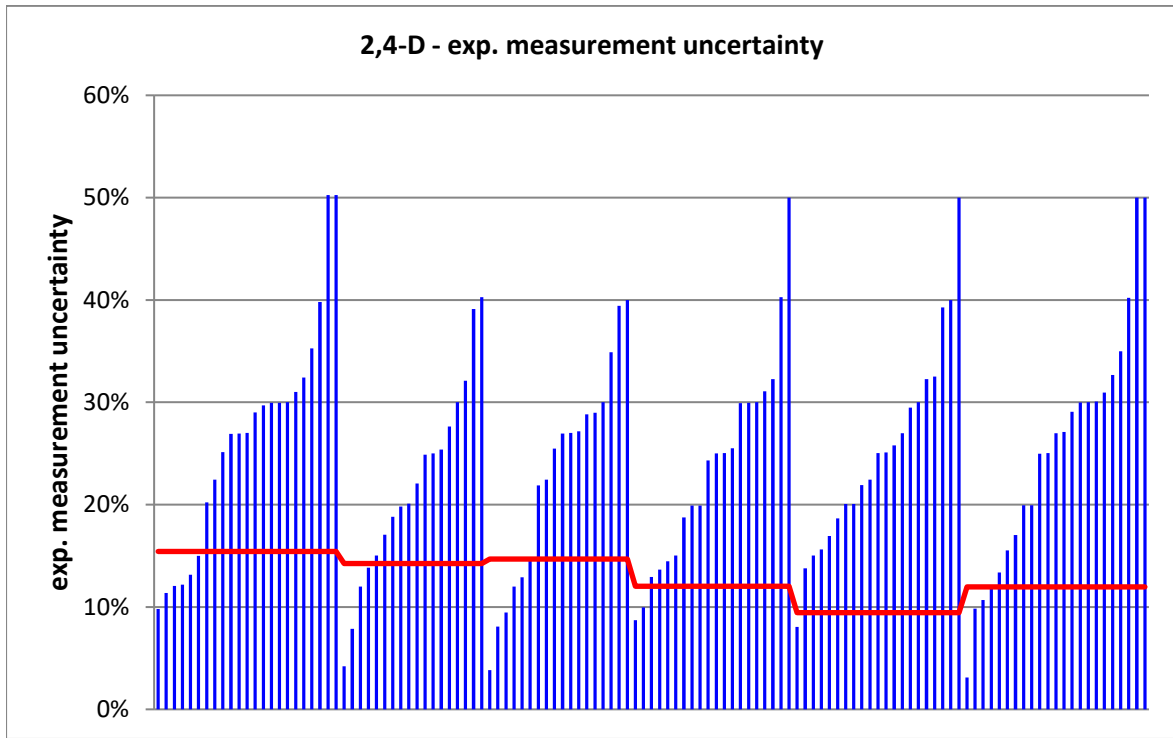
HPLC-MS/MS									
level	robust mean [µg/l]	exp. unc. of the mean [µg/l]	exp. unc. of the mean [%]	robust standard deviation [µg/l]	robust standard deviation [%]	number of results	out below	out above	out [%]
1	0,243	0,009	3,598	0,027	11,15	15	1	2	20
2	0,558	0,026	4,667	0,078	13,97	14	1	2	21,4
3	0,753	0,021	2,741	0,074	9,806	20	1	2	15
4	0,869	0,062	7,115	0,156	18	10	1	0	10
5	1,03	0,041	3,935	0,126	12,19	15	1	1	13,3
6	1,206	0,045	3,767	0,131	10,86	13	2	0	15,4

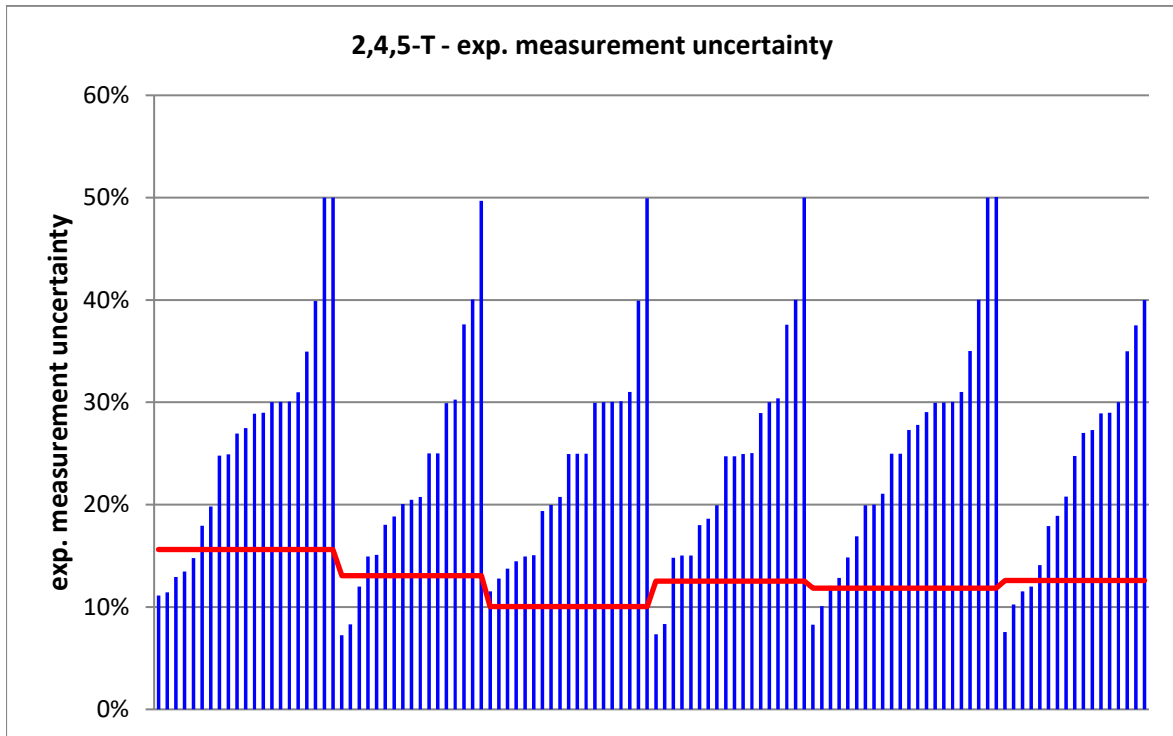
HPLC-MS - direct injection									
level	robust mean [µg/l]	exp. unc. of the mean [µg/l]	exp. unc. of the mean [%]	robust standard deviation [µg/l]	robust standard deviation [%]	number of results	out below	out above	out [%]
4	0,906	0,051	5,654	0,116	12,79	8	0	0	0







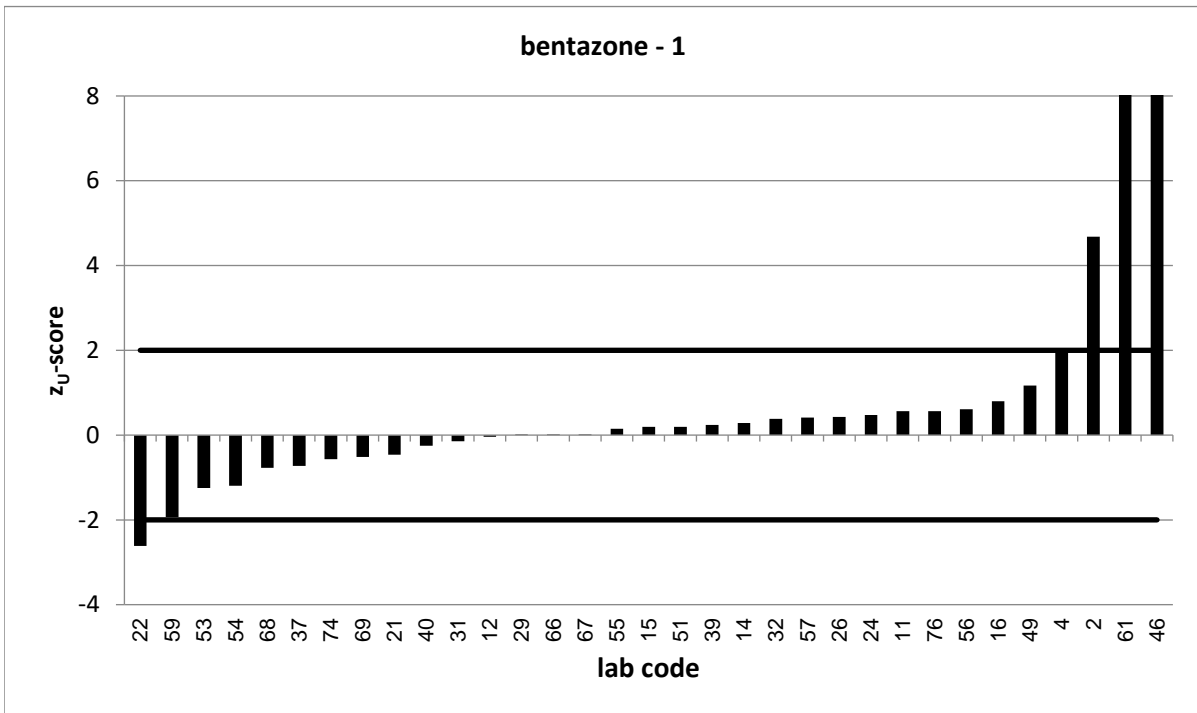
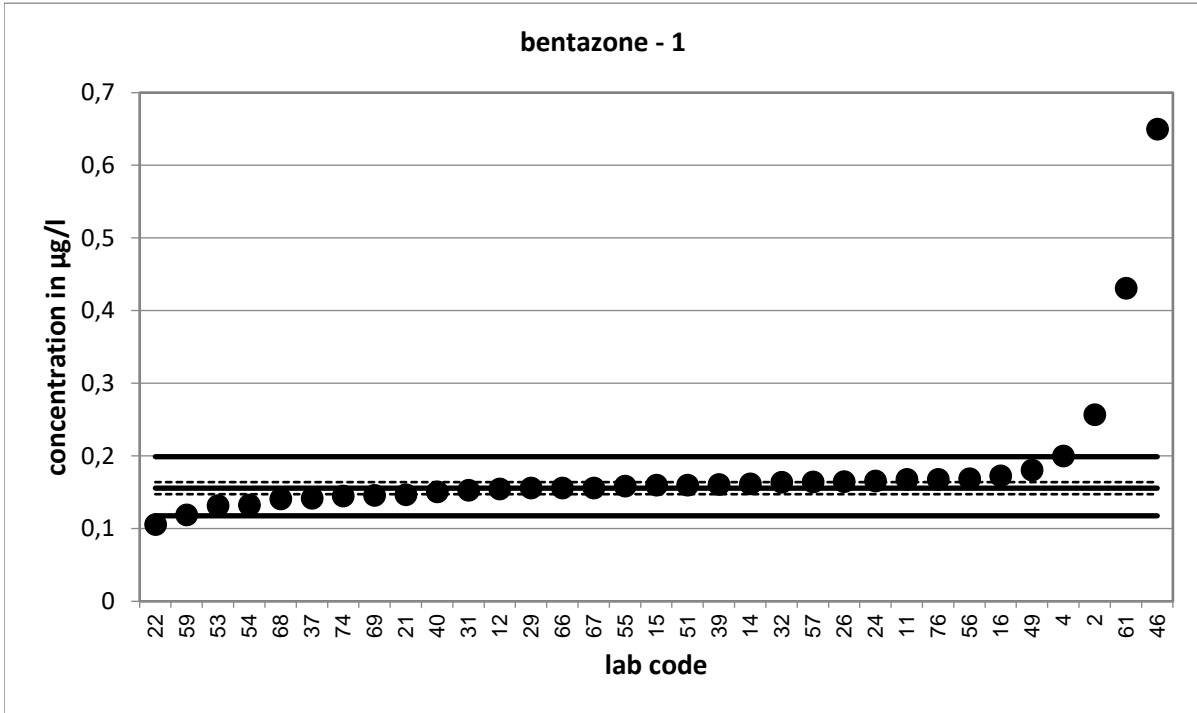




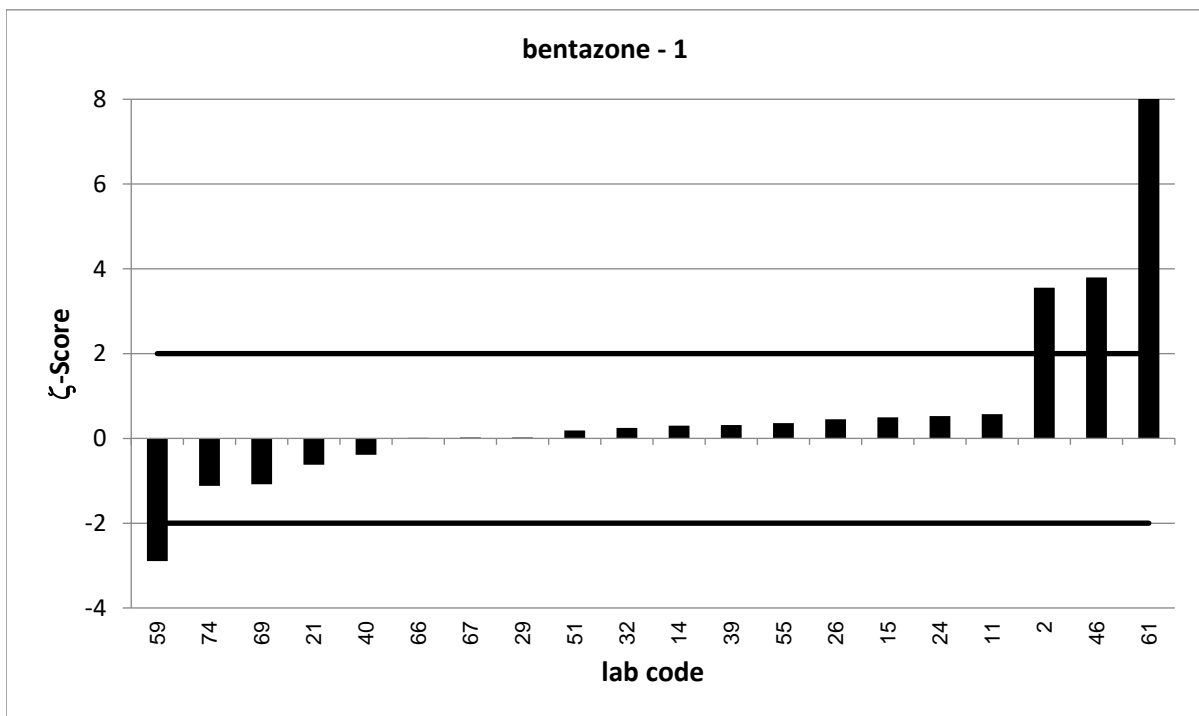
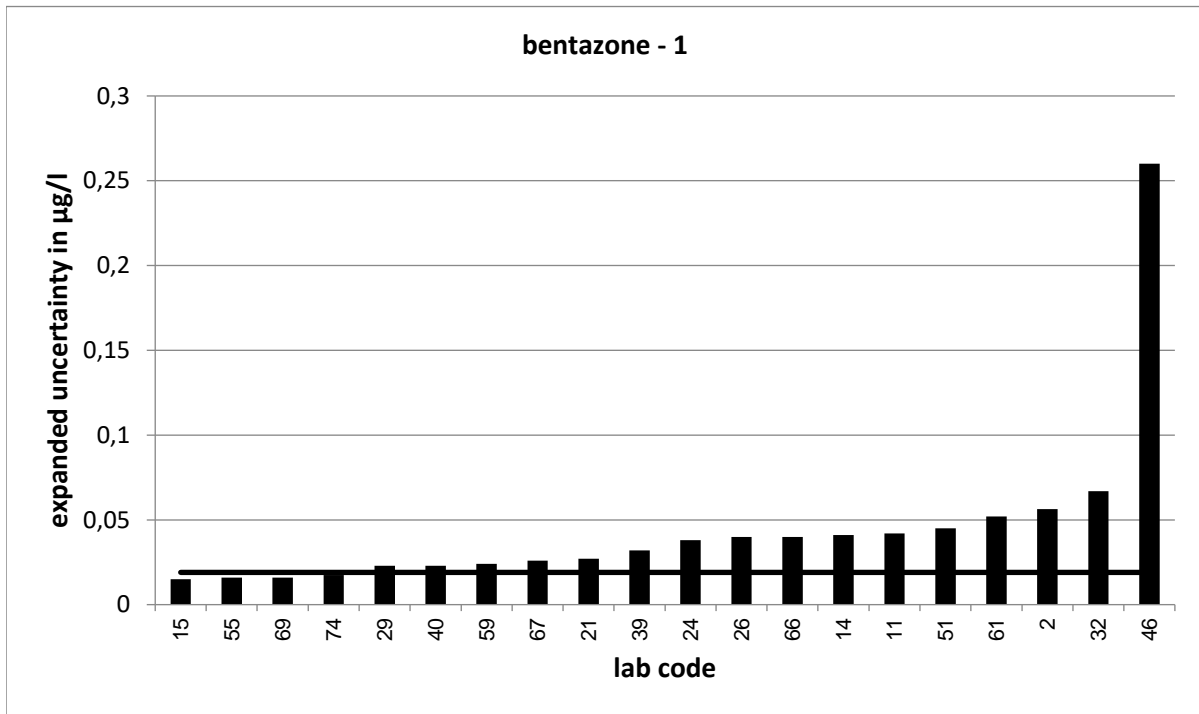
PT 9/24 - TW O4		bentazone - 1			
assigned value [$\mu\text{g/l}$]*		0,1557 \pm 0,0083			
upper tolerance limit [$\mu\text{g/l}$]		0,199			
lower tolerance limit [$\mu\text{g/l}$]		0,1177			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
2	0,257	0,056	3,6	4,7	u
4	0,2			2,0	s
11	0,168	0,042	0,6	0,6	s
12	0,155			0,0	s
14	0,162	0,041	0,3	0,3	s
15	0,16	0,015	0,5	0,2	s
16	0,173			0,8	s
21	0,147	0,027	-0,6	-0,5	s
22	0,106			-2,6	q
24	0,166	0,038	0,5	0,5	s
26	0,165	0,04	0,5	0,4	s
29	0,156	0,023	0,0	0,0	s
31	0,153			-0,1	s
32	0,164	0,067	0,2	0,4	s
37	0,142			-0,7	s
39	0,161	0,032	0,3	0,2	s
40	0,151	0,023	-0,4	-0,2	s
46	0,65	0,26	3,8	22,8	u
49	0,181			1,2	s
51	0,16	0,045	0,2	0,2	s
53	0,132			-1,2	s
54	0,133			-1,2	s
55	0,159	0,016	0,4	0,2	s
56	0,169			0,6	s
57	0,1647			0,4	s
59	0,119	0,024	-2,9	-1,9	s
61	0,431	0,052	10,5	12,7	u
66	0,156	0,04	0,0	0,0	s
67	0,156	0,026	0,0	0,0	s
68	0,141			-0,8	s
69	0,146	0,016	-1,1	-0,5	s
74	0,145	0,017	-1,1	-0,6	s
76	0,168			0,6	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



Strongly deviating values are not correctly shown in the diagram.

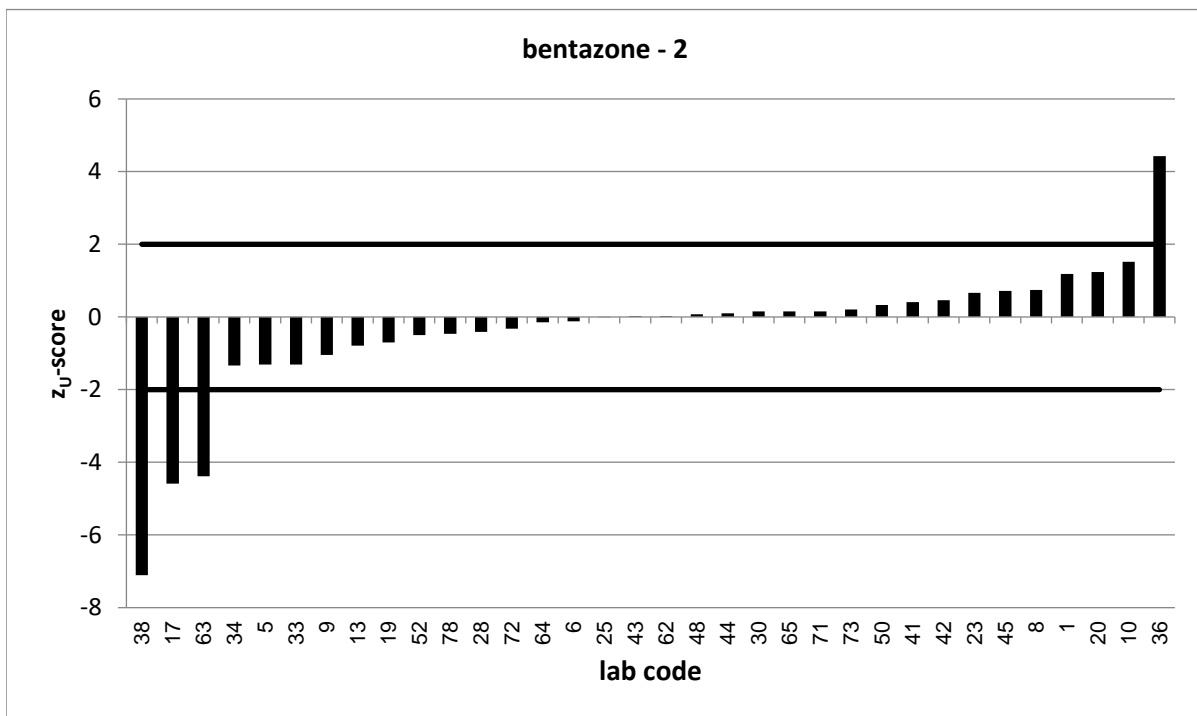
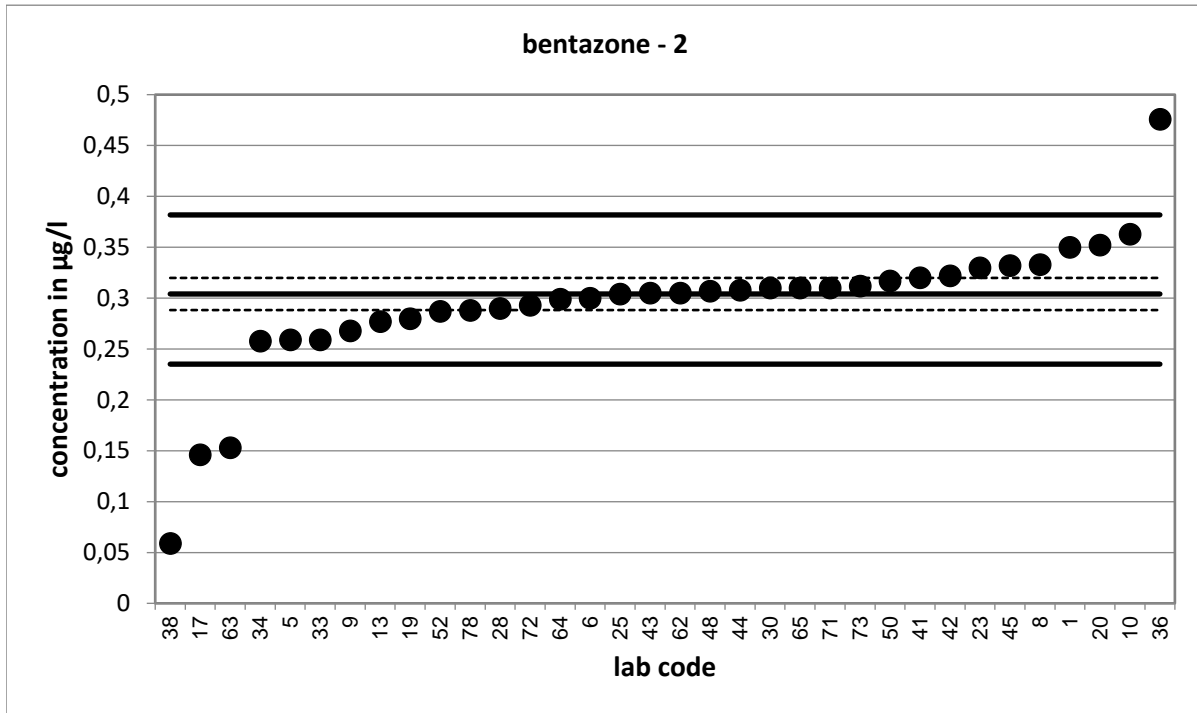


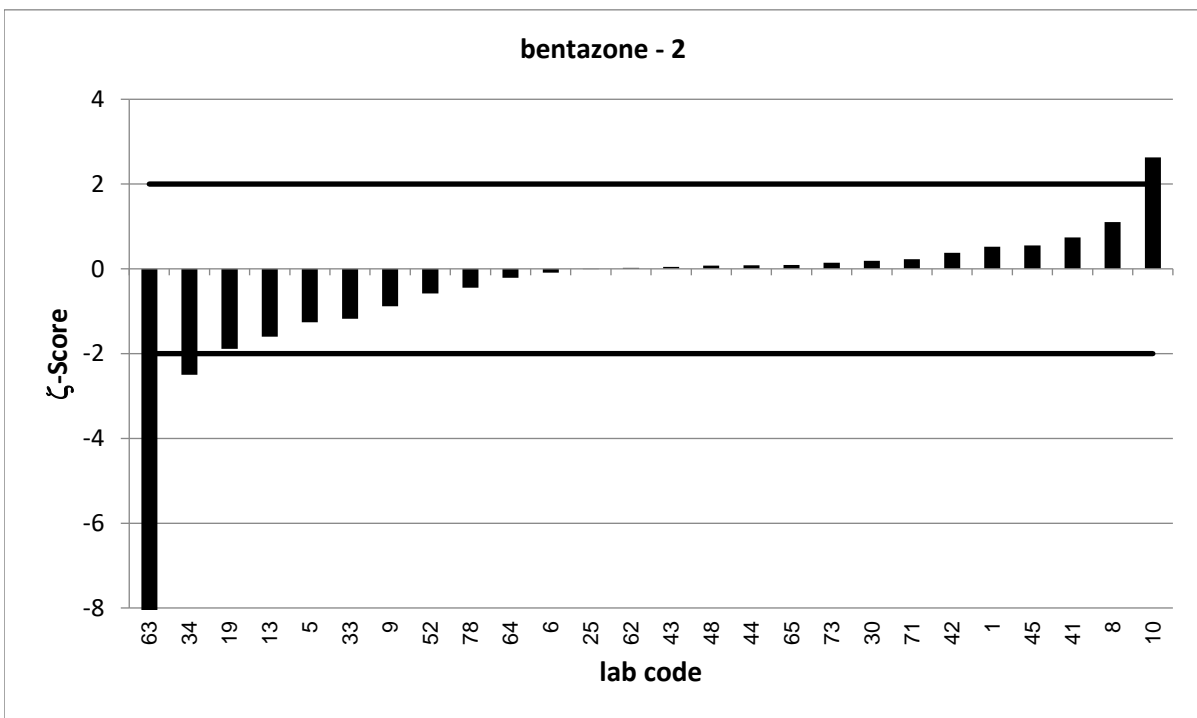
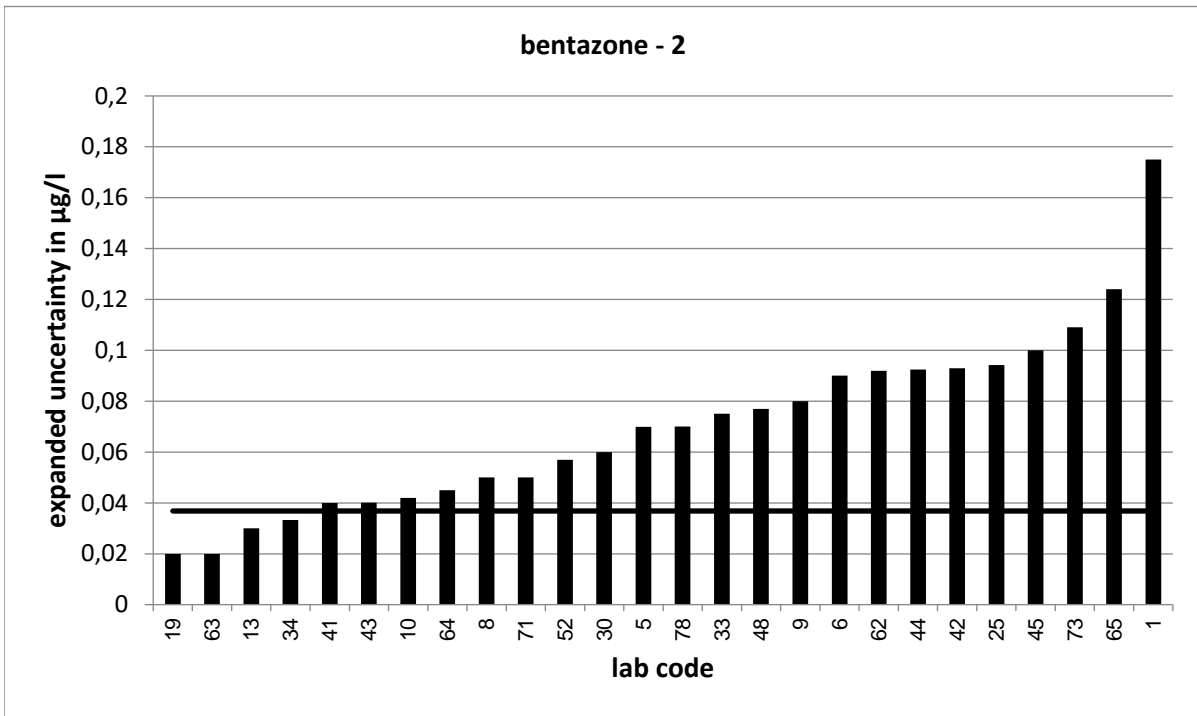
Strongly deviating values are not correctly shown in the diagram.

PT 9/24 - TW O4		bentazone - 2			
assigned value [$\mu\text{g/l}$]*		0,3041 \pm 0,0158			
upper tolerance limit [$\mu\text{g/l}$]		0,3818			
lower tolerance limit [$\mu\text{g/l}$]		0,2351			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
1	0,35	0,175	0,5	1,2	s
5	0,259	0,07	-1,3	-1,3	s
6	0,3	0,09	-0,1	-0,1	s
8	0,333	0,05	1,1	0,7	s
9	0,268	0,08	-0,9	-1,0	s
10	0,363	0,042	2,6	1,5	s
13	0,277	0,03	-1,6	-0,8	s
17	0,146			-4,6	u
19	0,28	0,02	-1,9	-0,7	s
20	0,35212			1,2	s
23	0,33			0,7	s
25	0,304	0,094	0,0	0,0	s
28	0,29			-0,4	s
30	0,31	0,06	0,2	0,2	s
33	0,259	0,075	-1,2	-1,3	s
34	0,258	0,033	-2,5	-1,3	s
36	0,476			4,4	u
38	0,059			-7,1	u
41	0,32	0,04	0,7	0,4	s
42	0,322	0,093	0,4	0,5	s
43	0,305	0,04	0,0	0,0	s
44	0,308	0,092	0,1	0,1	s
45	0,332	0,1	0,6	0,7	s
48	0,307	0,077	0,1	0,1	s
50	0,317			0,3	s
52	0,287	0,057	-0,6	-0,5	s
62	0,305	0,092	0,0	0,0	s
63	0,153	0,02	-11,9	-4,4	u
64	0,299	0,045	-0,2	-0,1	s
65	0,31	0,124	0,1	0,2	s
71	0,31	0,05	0,2	0,2	s
72	0,293			-0,3	s
73	0,312	0,109	0,1	0,2	s
78	0,288	0,07	-0,4	-0,5	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



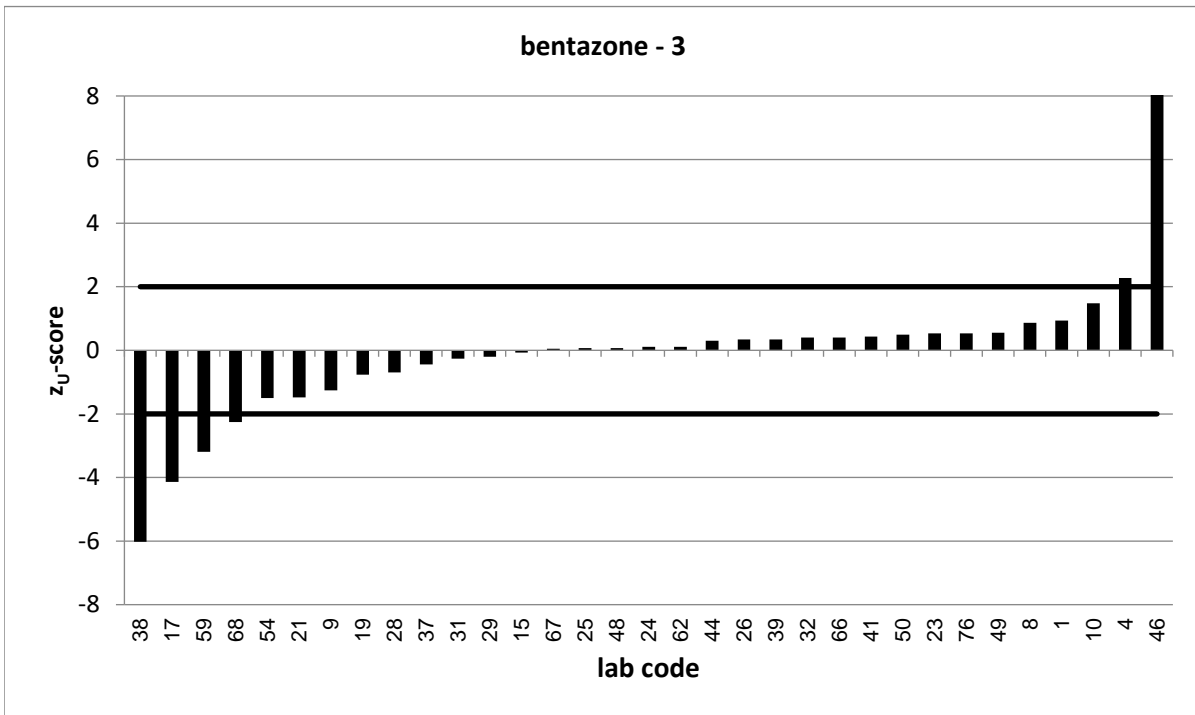
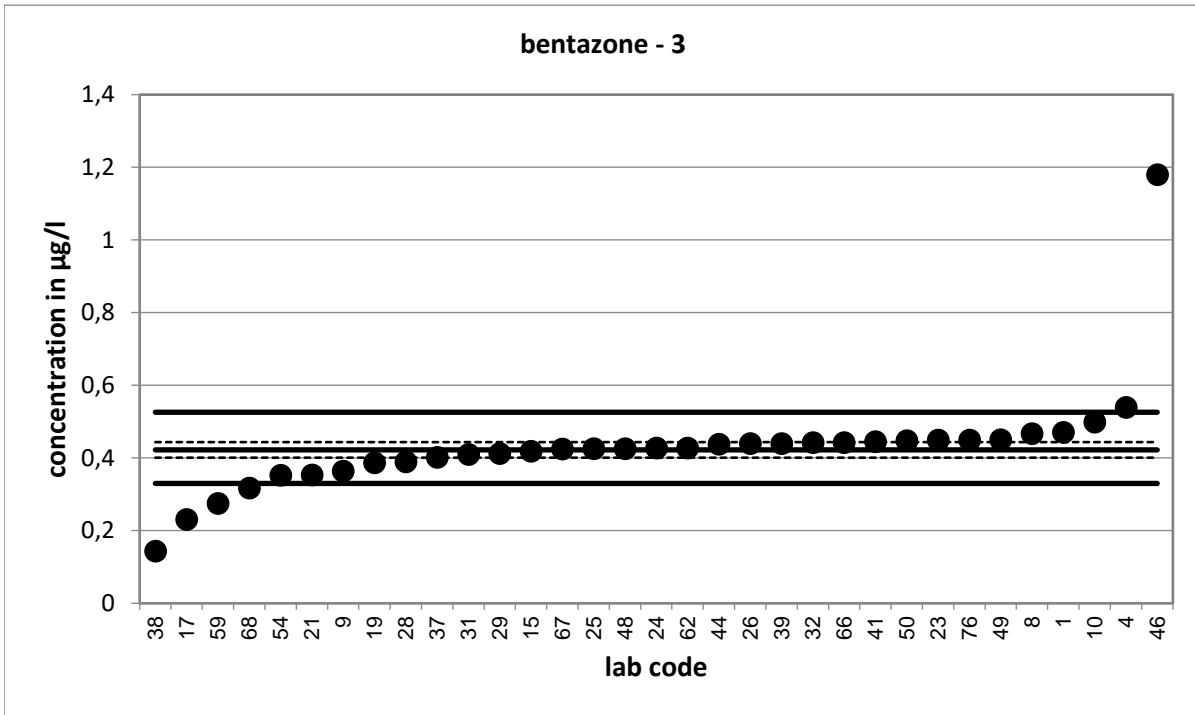


Strongly deviating values are not correctly shown in the diagram.

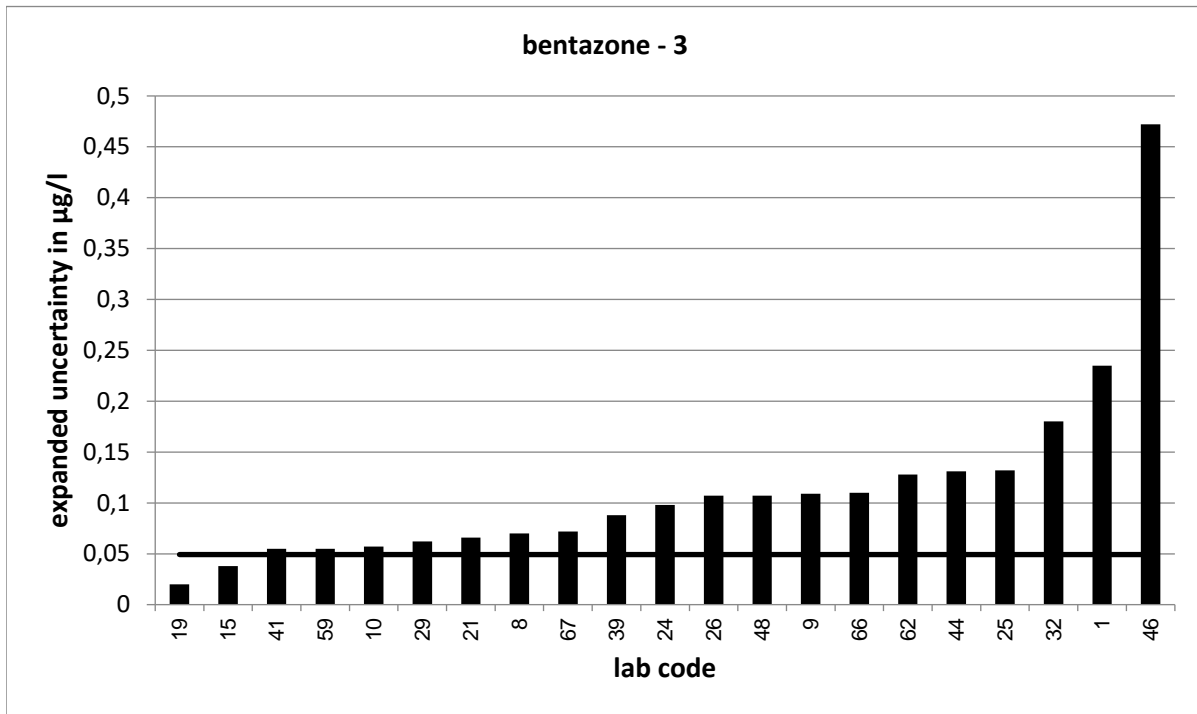
PT 9/24 - TW O4		bentazone - 3			
assigned value [$\mu\text{g/l}$]*		0,4223 \pm 0,0214			
upper tolerance limit [$\mu\text{g/l}$]		0,526			
lower tolerance limit [$\mu\text{g/l}$]		0,33			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
1	0,471	0,235	0,4	0,9	s
4	0,54			2,3	q
8	0,467	0,07	1,2	0,9	s
9	0,364	0,109	-1,1	-1,3	s
10	0,499	0,057	2,5	1,5	s
15	0,419	0,038	-0,2	-0,1	s
17	0,231			-4,1	u
19	0,387	0,02	-2,4	-0,8	s
21	0,354	0,066	-2,0	-1,5	s
23	0,45			0,5	s
24	0,428	0,098	0,1	0,1	s
25	0,426	0,132	0,1	0,1	s
26	0,44	0,107	0,3	0,3	s
28	0,39			-0,7	s
29	0,413	0,062	-0,3	-0,2	s
31	0,41			-0,3	s
32	0,443	0,18	0,2	0,4	s
37	0,402			-0,4	s
38	0,144			-6,0	u
39	0,44	0,088	0,4	0,3	s
41	0,445	0,055	0,8	0,4	s
44	0,438	0,131	0,2	0,3	s
46	1,18	0,472	3,2	14,6	u
48	0,426	0,107	0,1	0,1	s
49	0,451			0,6	s
50	0,448			0,5	s
54	0,353			-1,5	s
59	0,275	0,055	-5,0	-3,2	u
62	0,428	0,128	0,1	0,1	s
66	0,443	0,11	0,4	0,4	s
67	0,425	0,072	0,1	0,1	s
68	0,318			-2,3	q
76	0,45			0,5	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



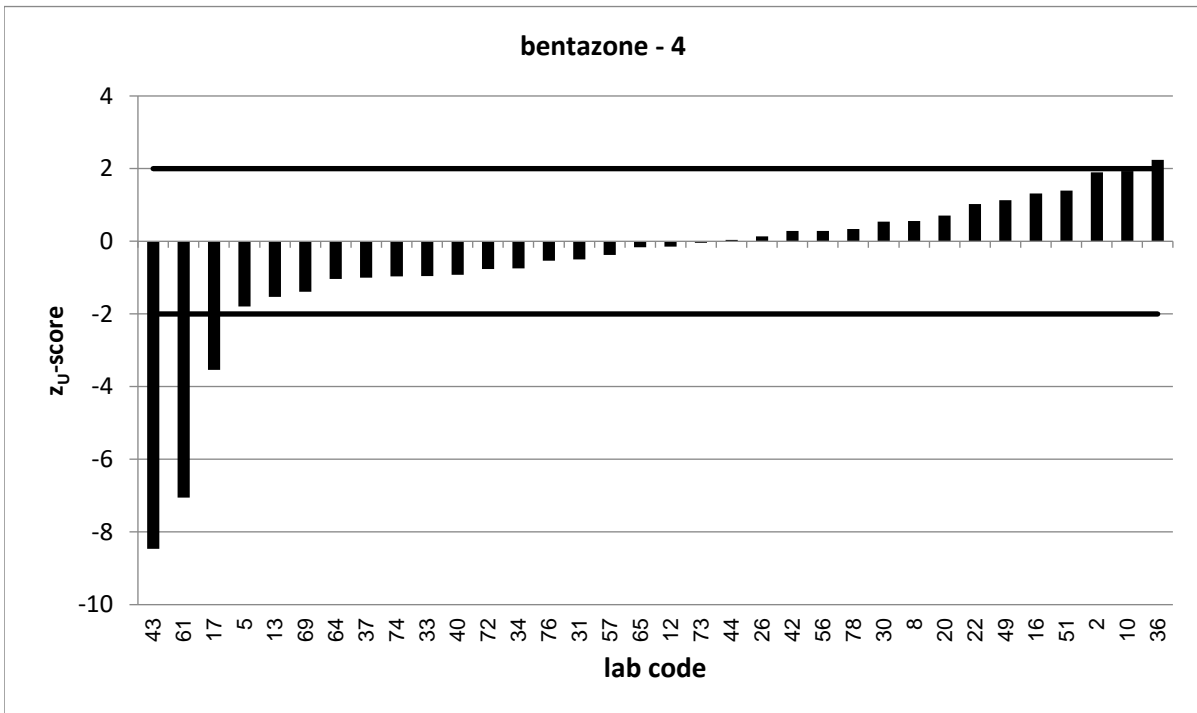
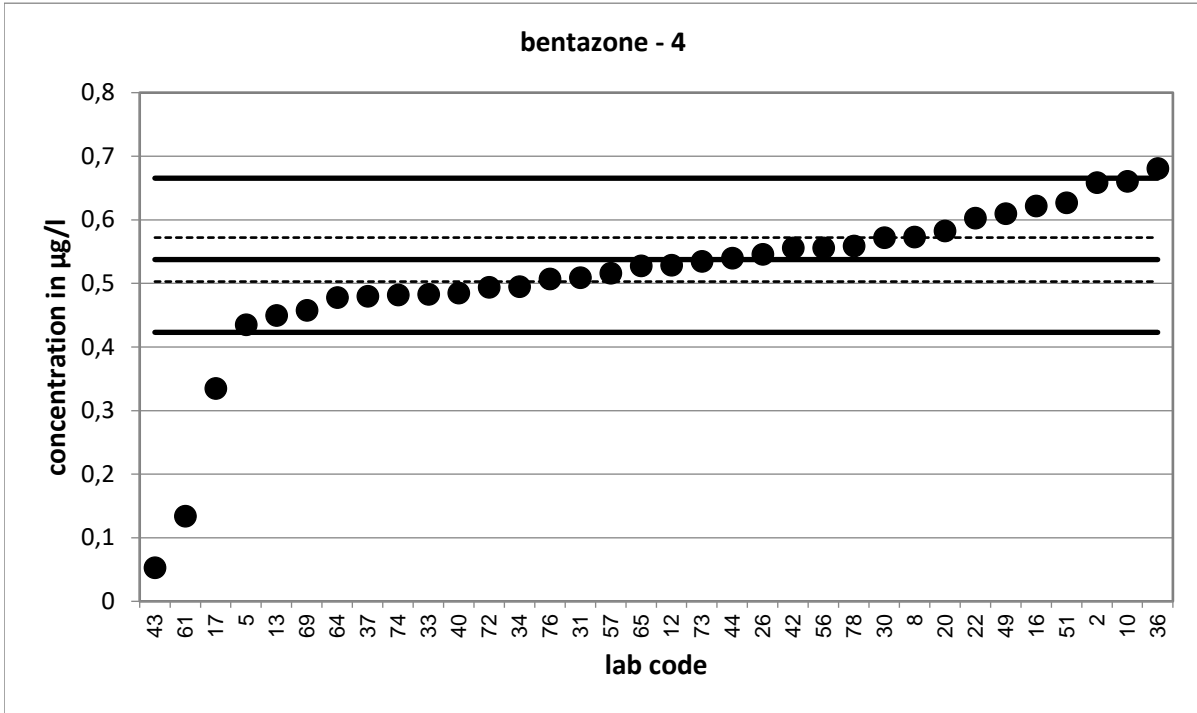
Strongly deviating values are not correctly shown in the diagram.

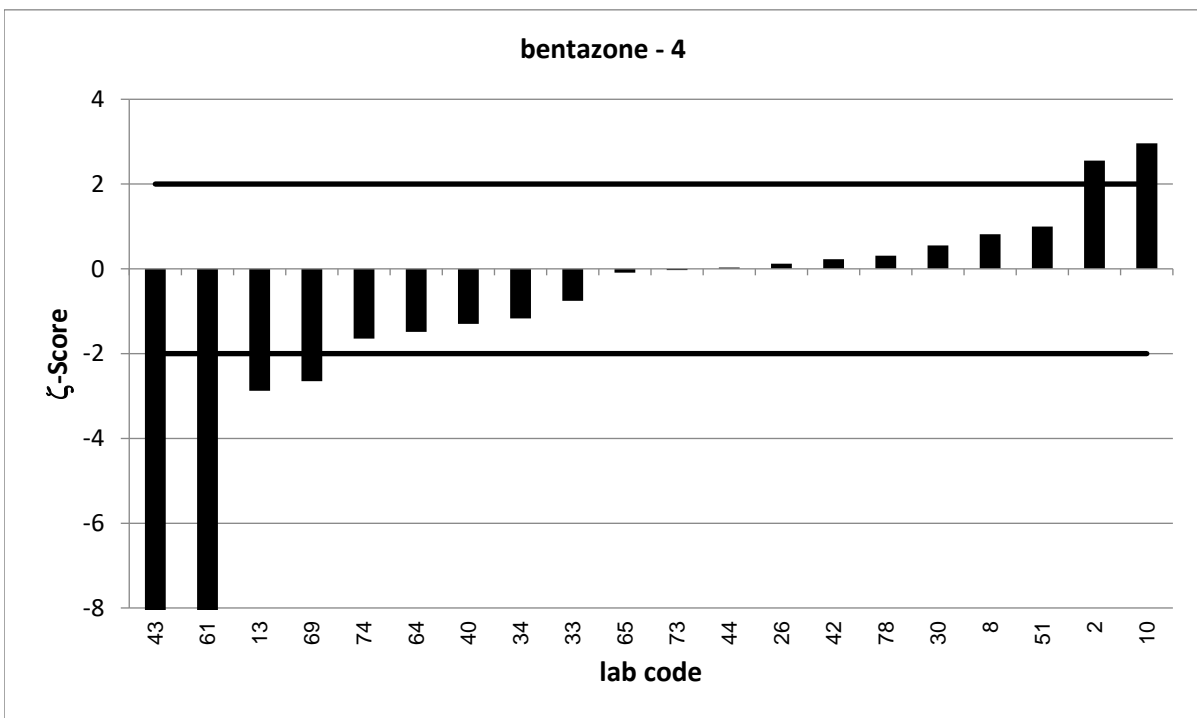
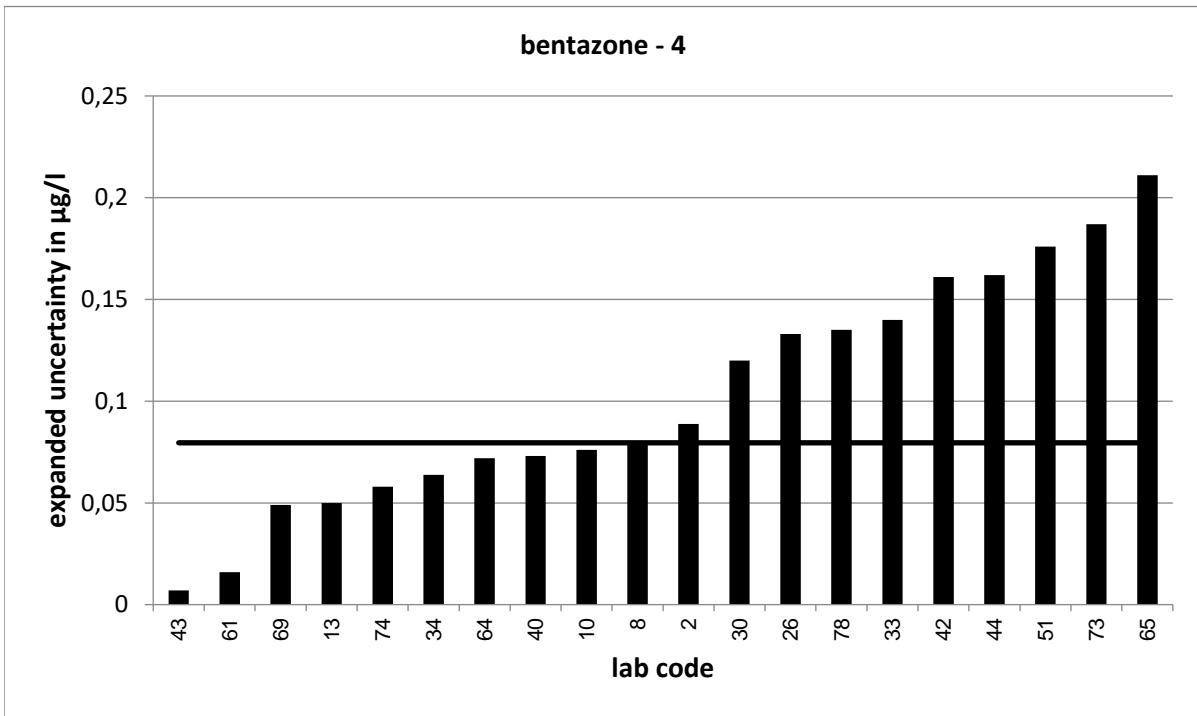


PT 9/24 - TW O4		bentazone - 4			
assigned value [$\mu\text{g/l}$]*		0,5375 \pm 0,0346			
upper tolerance limit [$\mu\text{g/l}$]		0,6655			
lower tolerance limit [$\mu\text{g/l}$]		0,423			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
2	0,659	0,089	2,5	1,9	s
5	0,435			-1,8	s
8	0,573	0,08	0,8	0,6	s
10	0,661	0,076	3,0	1,9	s
12	0,529			-0,1	s
13	0,45	0,05	-2,9	-1,5	s
16	0,622			1,3	s
17	0,335			-3,5	u
20	0,58285			0,7	s
22	0,603			1,0	s
26	0,546	0,133	0,1	0,1	s
30	0,572	0,12	0,6	0,5	s
31	0,509			-0,5	s
33	0,483	0,14	-0,8	-1,0	s
34	0,495	0,064	-1,2	-0,7	s
36	0,681			2,2	q
37	0,48			-1,0	s
40	0,485	0,073	-1,3	-0,9	s
42	0,556	0,161	0,2	0,3	s
43	0,053	0,007	-27,4	-8,5	u
44	0,54	0,162	0,0	0,0	s
49	0,61			1,1	s
51	0,627	0,176	1,0	1,4	s
56	0,556			0,3	s
57	0,5162			-0,4	s
61	0,134	0,016	-21,2	-7,1	u
64	0,478	0,072	-1,5	-1,0	s
65	0,528	0,211	-0,1	-0,2	s
69	0,458	0,049	-2,6	-1,4	s
72	0,494			-0,8	s
73	0,535	0,187	0,0	0,0	s
74	0,482	0,058	-1,6	-1,0	s
76	0,507			-0,5	s
78	0,559	0,135	0,3	0,3	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



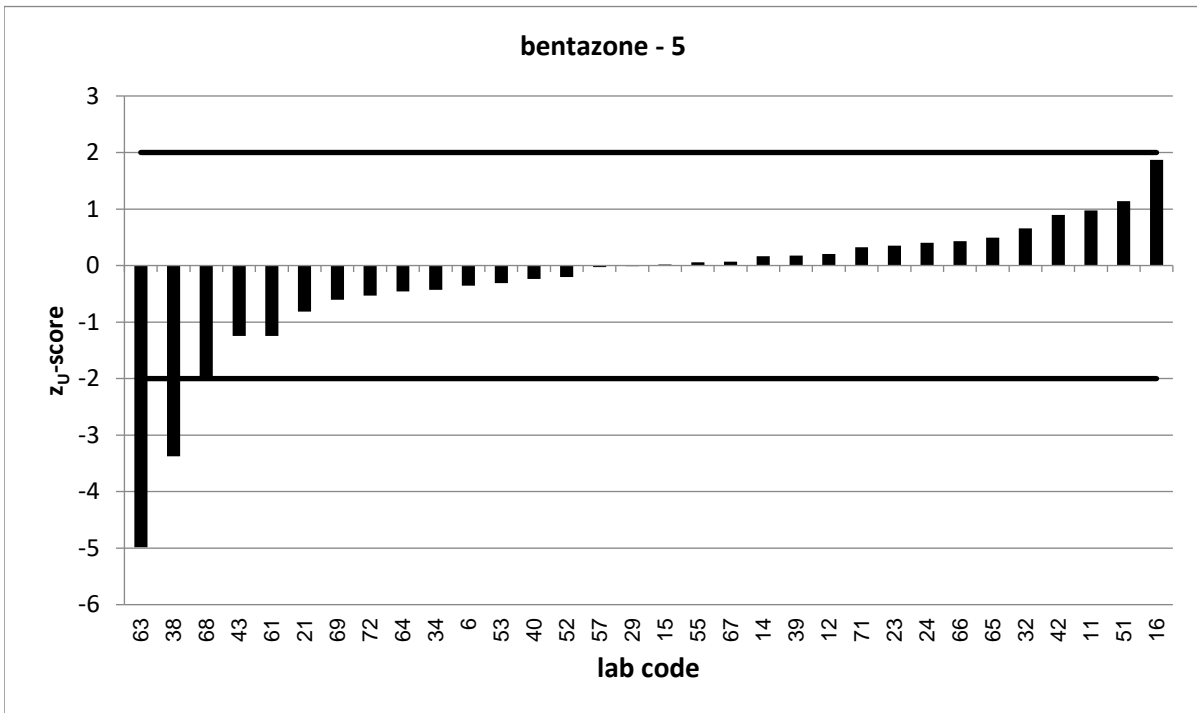
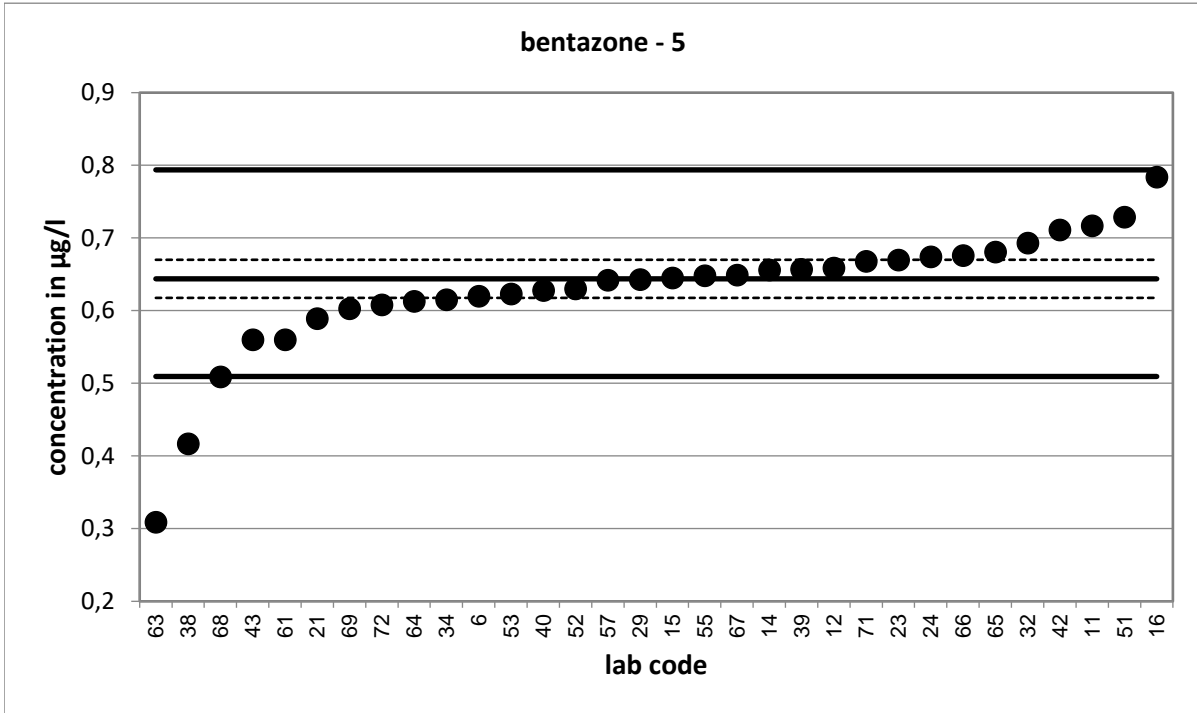


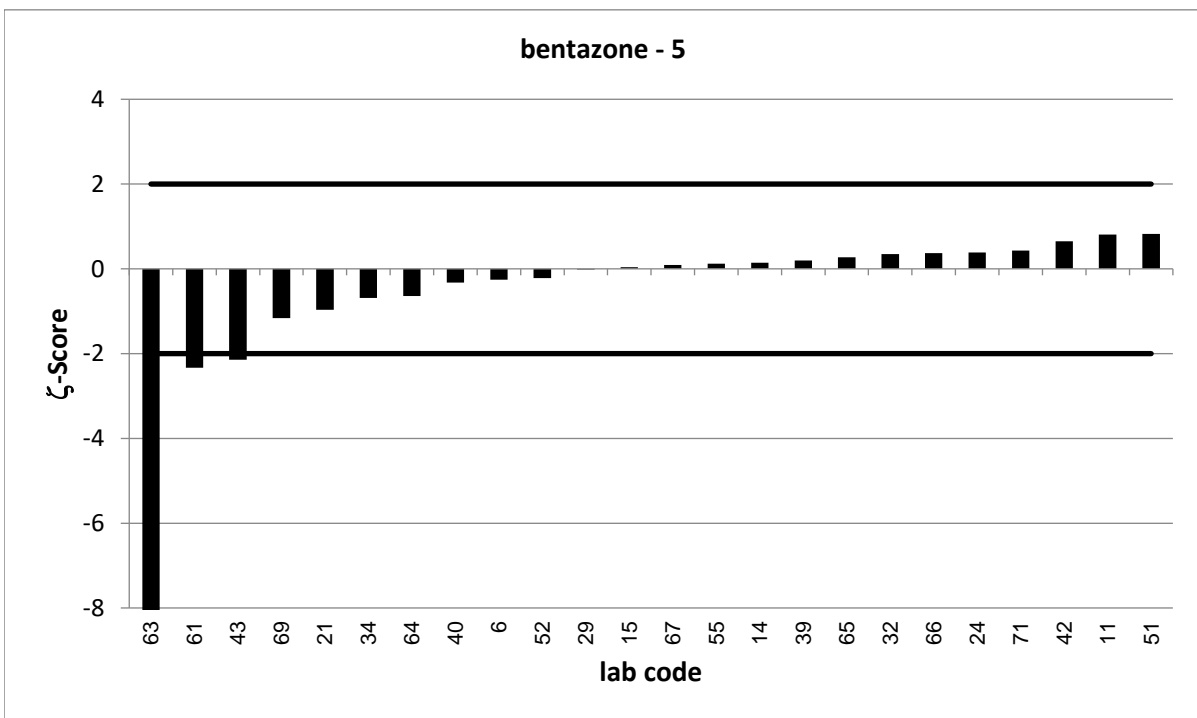
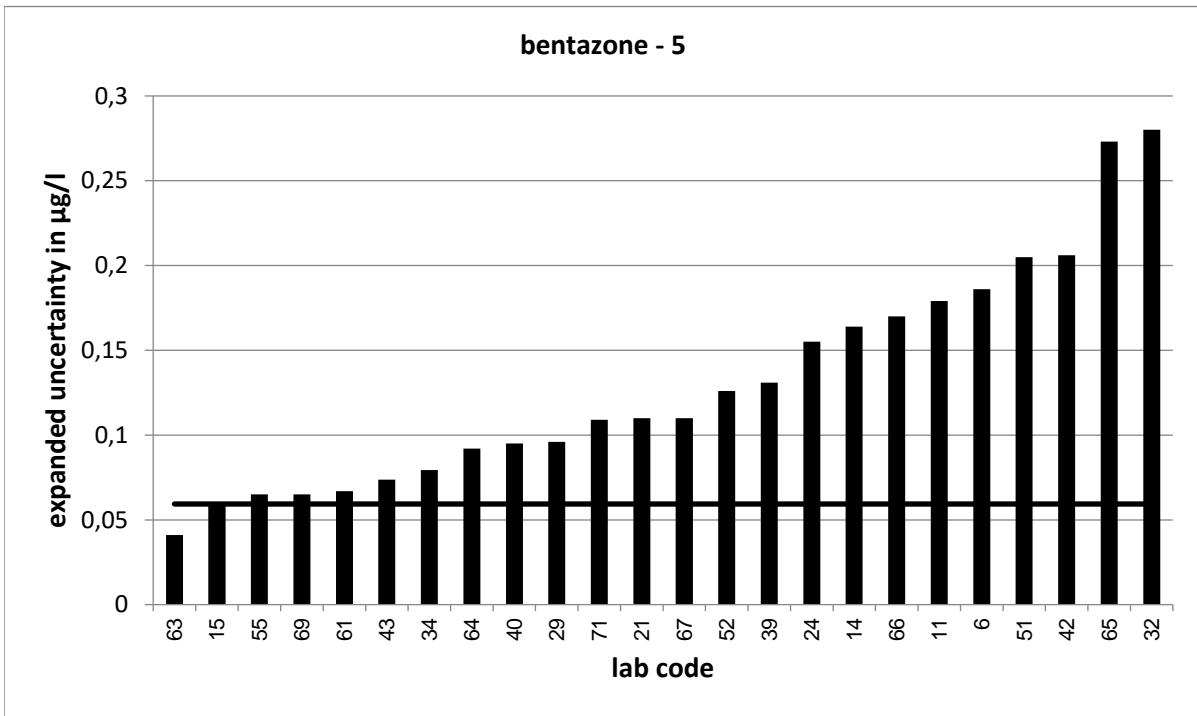
Strongly deviating values are not correctly shown in the diagram.

PT 9/24 - TW O4		bentazone - 5			
assigned value [$\mu\text{g/l}$]*		0,6438 \pm 0,0262			
upper tolerance limit [$\mu\text{g/l}$]		0,7937			
lower tolerance limit [$\mu\text{g/l}$]		0,5094			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
6	0,62	0,186	-0,3	-0,4	s
11	0,717	0,179	0,8	1,0	s
12	0,659			0,2	s
14	0,656	0,164	0,1	0,2	s
15	0,645	0,059	0,0	0,0	s
16	0,784			1,9	s
21	0,589	0,11	-1,0	-0,8	s
23	0,67			0,3	s
24	0,674	0,155	0,4	0,4	s
29	0,643	0,096	0,0	0,0	s
32	0,693	0,28	0,3	0,7	s
34	0,615	0,079	-0,7	-0,4	s
38	0,417			-3,4	u
39	0,657	0,131	0,2	0,2	s
40	0,628	0,095	-0,3	-0,2	s
42	0,711	0,206	0,6	0,9	s
43	0,56	0,074	-2,1	-1,2	s
51	0,729	0,205	0,8	1,1	s
52	0,63	0,126	-0,2	-0,2	s
53	0,623			-0,3	s
55	0,648	0,065	0,1	0,1	s
57	0,6419			0,0	s
61	0,56	0,067	-2,3	-1,2	s
63	0,309	0,041	-13,8	-5,0	u
64	0,613	0,092	-0,6	-0,5	s
65	0,681	0,273	0,3	0,5	s
66	0,676	0,17	0,4	0,4	s
67	0,649	0,11	0,1	0,1	s
68	0,509			-2,0	s
69	0,603	0,065	-1,2	-0,6	s
71	0,668	0,109	0,4	0,3	s
72	0,608			-0,5	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



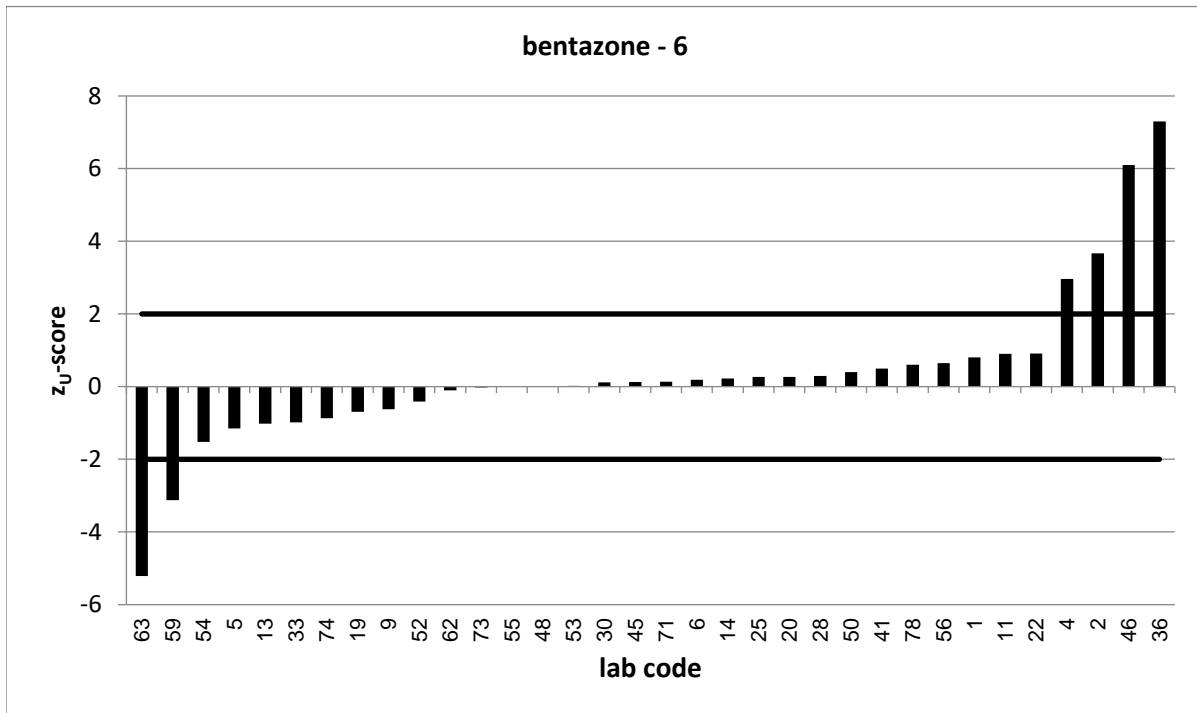
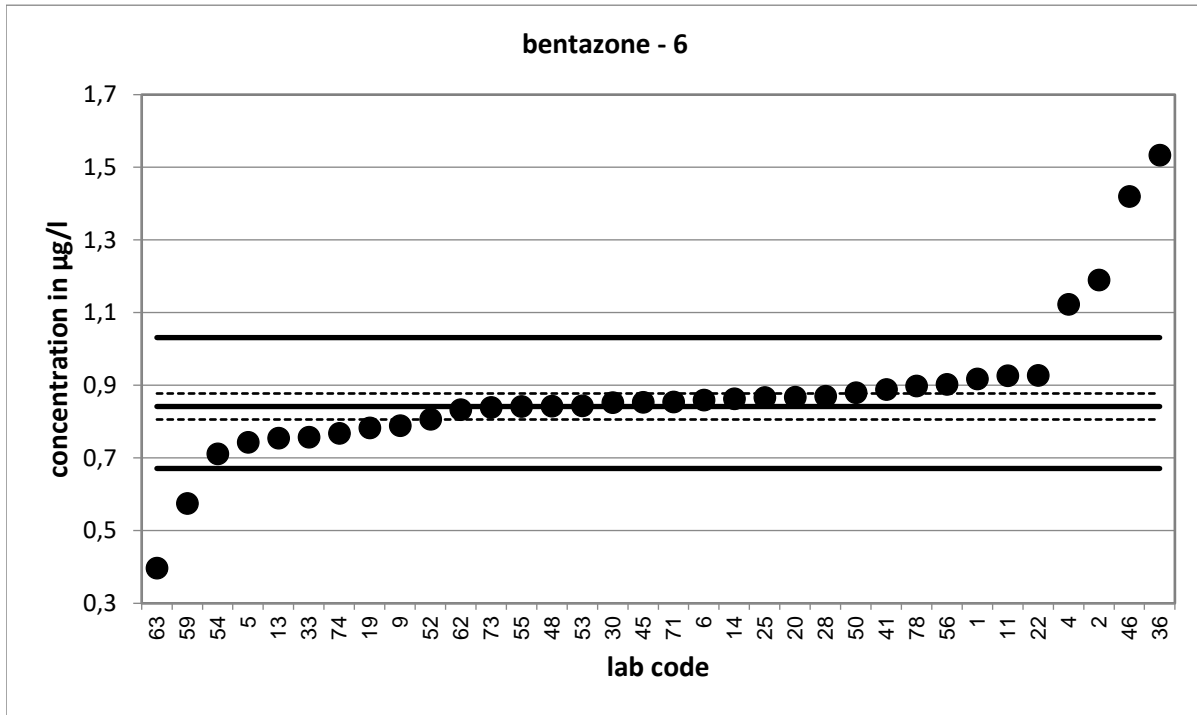


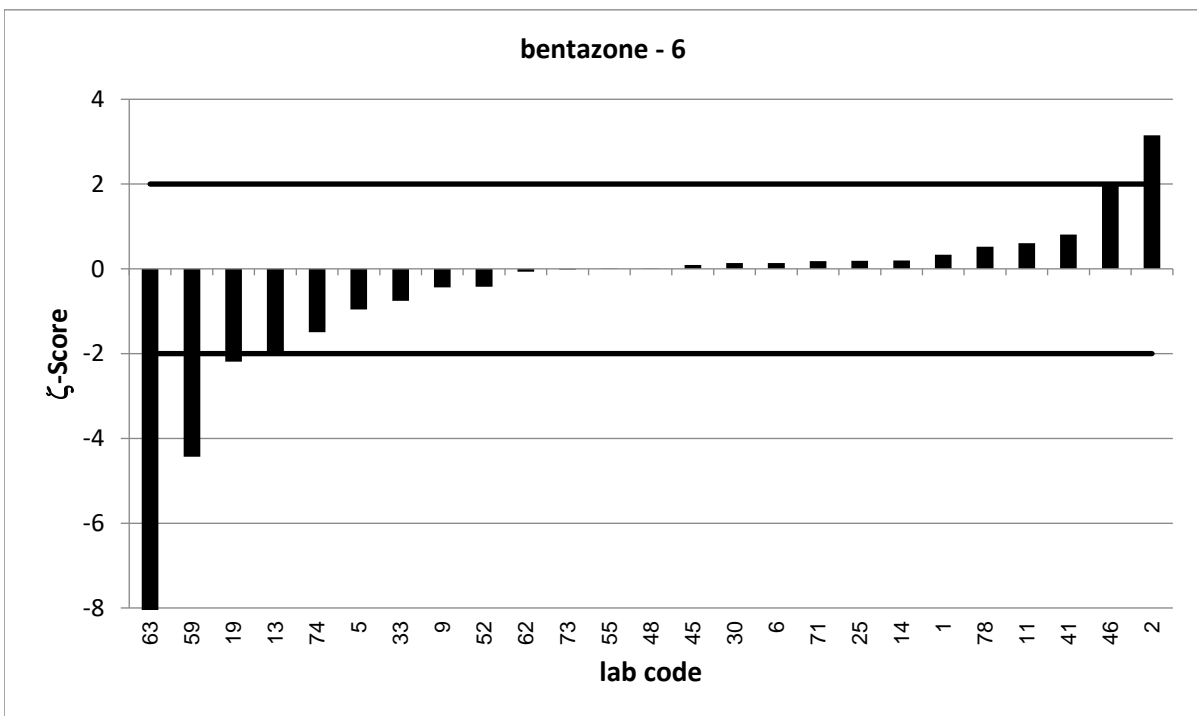
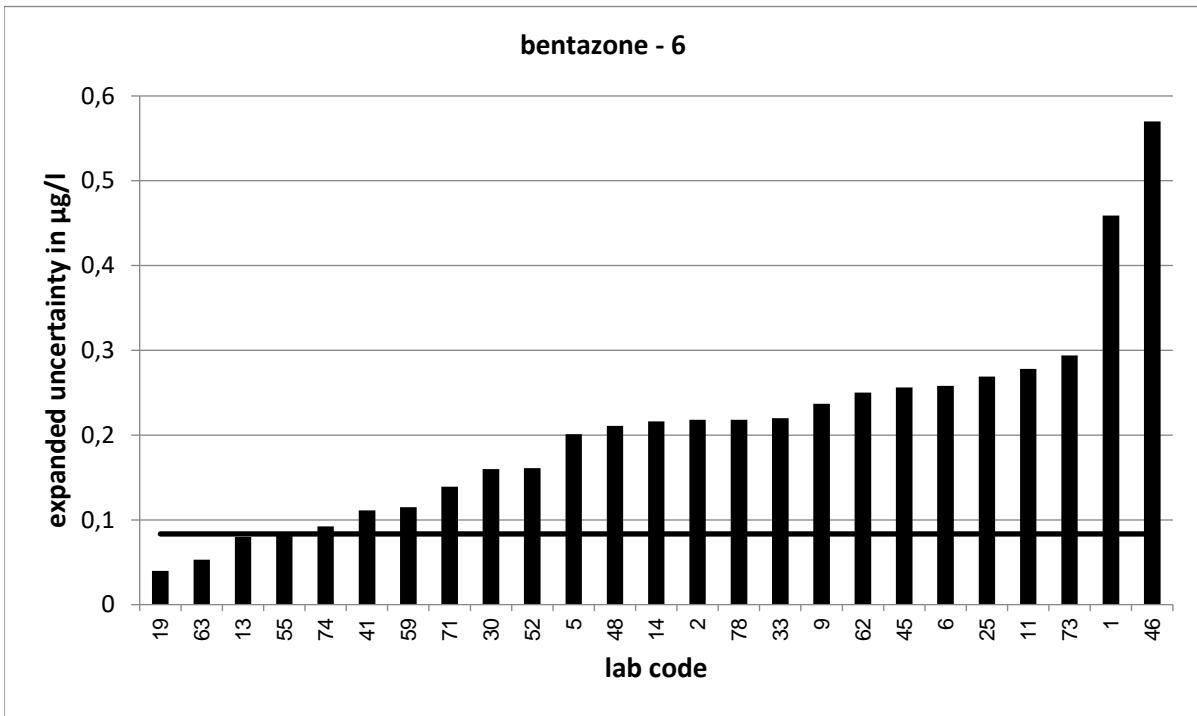
Strongly deviating values are not correctly shown in the diagram.

PT 9/24 - TW O4		bentazone - 6			
assigned value [$\mu\text{g/l}$]*		0,8417 \pm 0,0358			
upper tolerance limit [$\mu\text{g/l}$]		1,031			
lower tolerance limit [$\mu\text{g/l}$]		0,6712			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
1	0,918	0,459	0,3	0,8	s
2	1,19	0,218	3,2	3,7	u
4	1,123			3,0	u
5	0,744	0,201	-1,0	-1,1	s
6	0,86	0,258	0,1	0,2	s
9	0,789	0,237	-0,4	-0,6	s
11	0,927	0,278	0,6	0,9	s
13	0,755	0,08	-2,0	-1,0	s
14	0,863	0,216	0,2	0,2	s
19	0,783	0,04	-2,2	-0,7	s
20	0,86743			0,3	s
22	0,928			0,9	s
25	0,867	0,269	0,2	0,3	s
28	0,87			0,3	s
30	0,853	0,16	0,1	0,1	s
33	0,758	0,22	-0,8	-1,0	s
36	1,534			7,3	u
41	0,889	0,111	0,8	0,5	s
45	0,854	0,256	0,1	0,1	s
46	1,42	0,57	2,0	6,1	u
48	0,843	0,211	0,0	0,0	s
50	0,88			0,4	s
52	0,807	0,161	-0,4	-0,4	s
53	0,844			0,0	s
54	0,712			-1,5	s
55	0,842	0,084	0,0	0,0	s
56	0,903			0,6	s
59	0,575	0,115	-4,4	-3,1	u
62	0,833	0,25	-0,1	-0,1	s
63	0,397	0,053	-13,9	-5,2	u
71	0,855	0,139	0,2	0,1	s
73	0,84	0,294	0,0	0,0	s
74	0,768	0,092	-1,5	-0,9	s
78	0,899	0,218	0,5	0,6	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



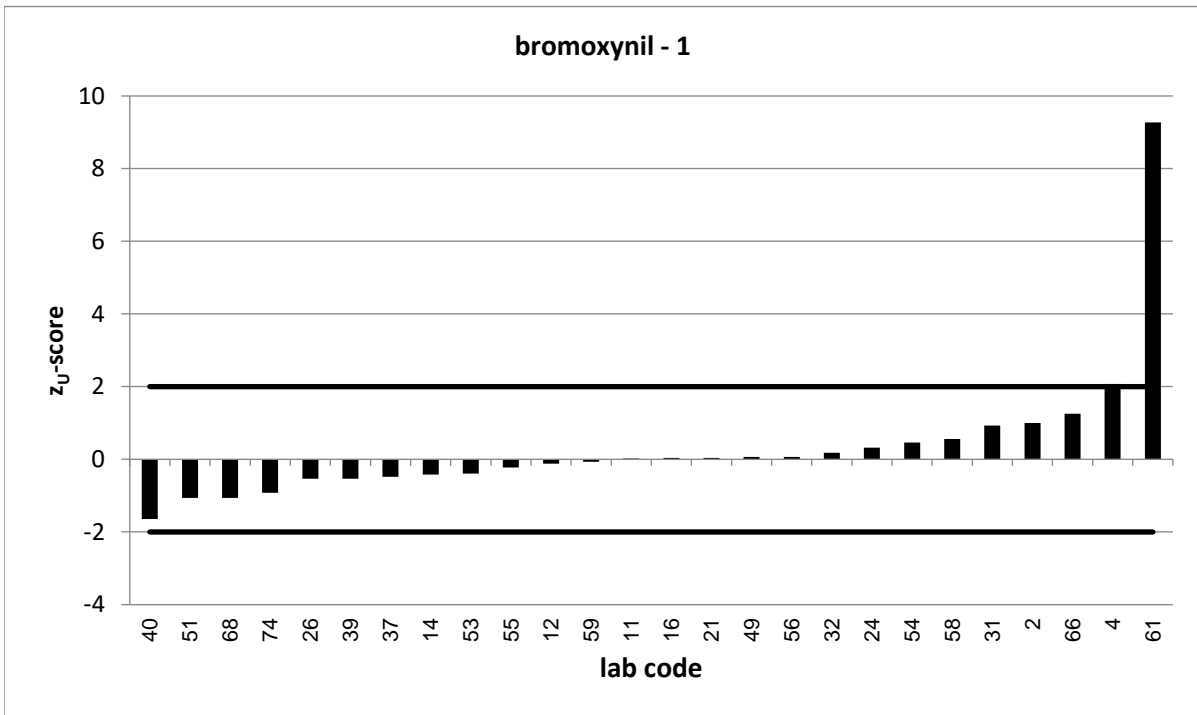
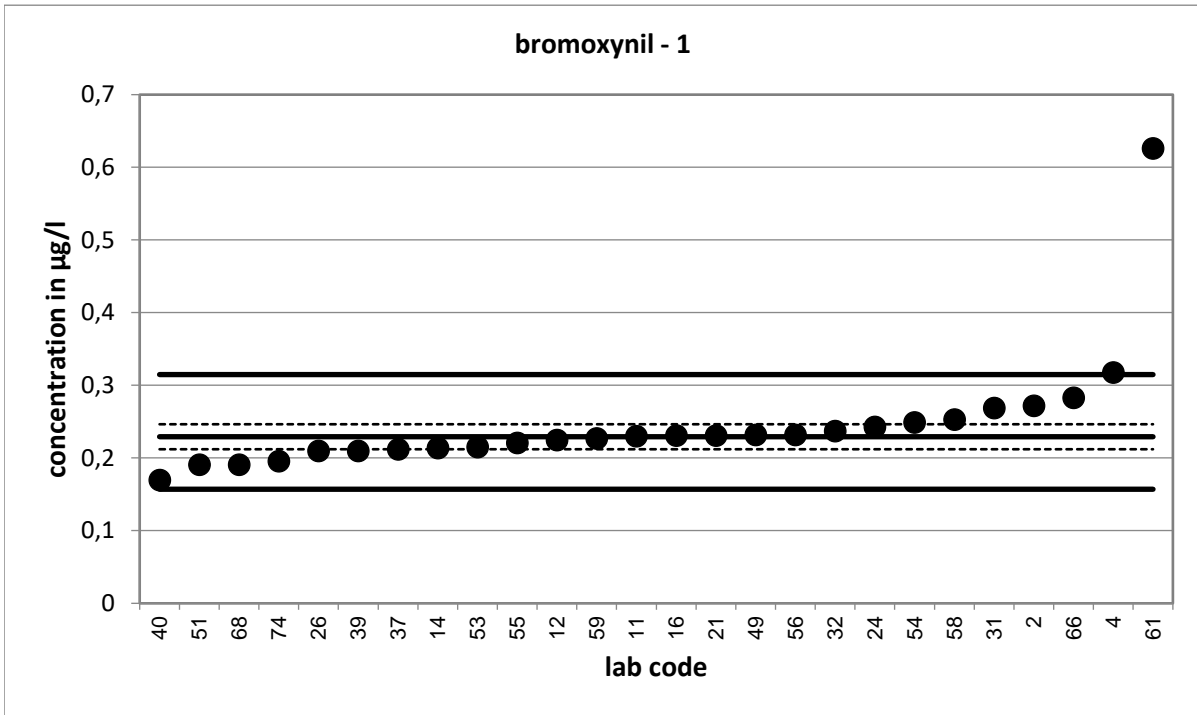


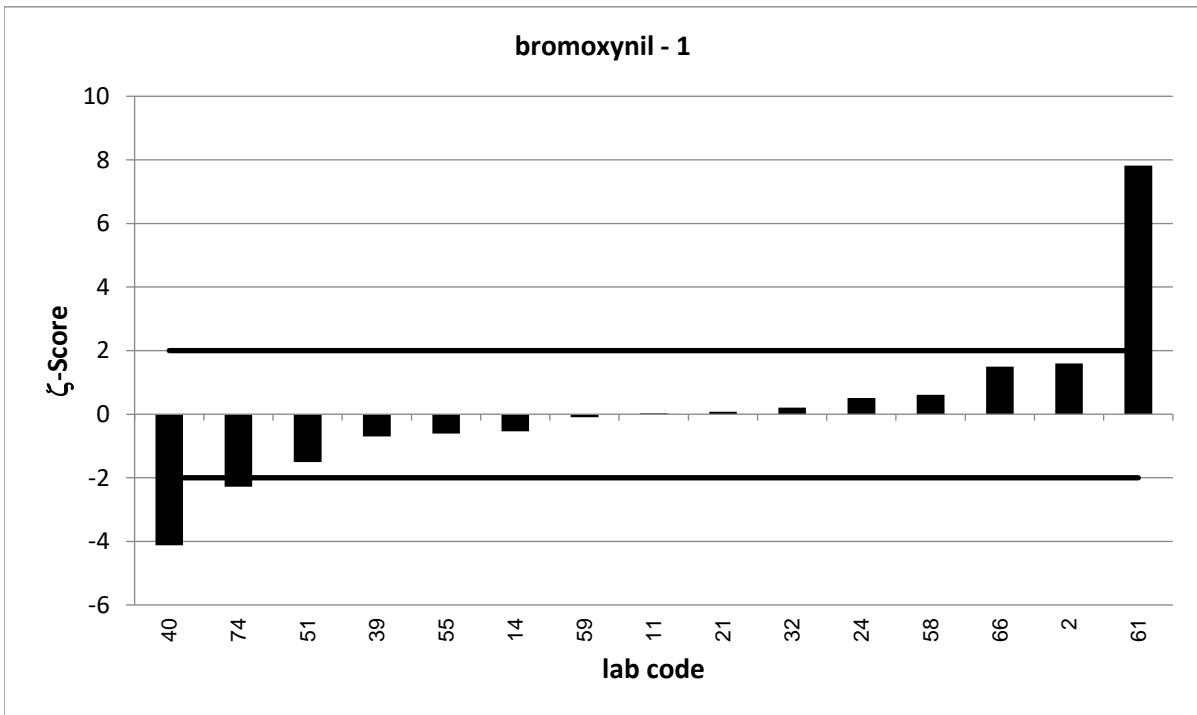
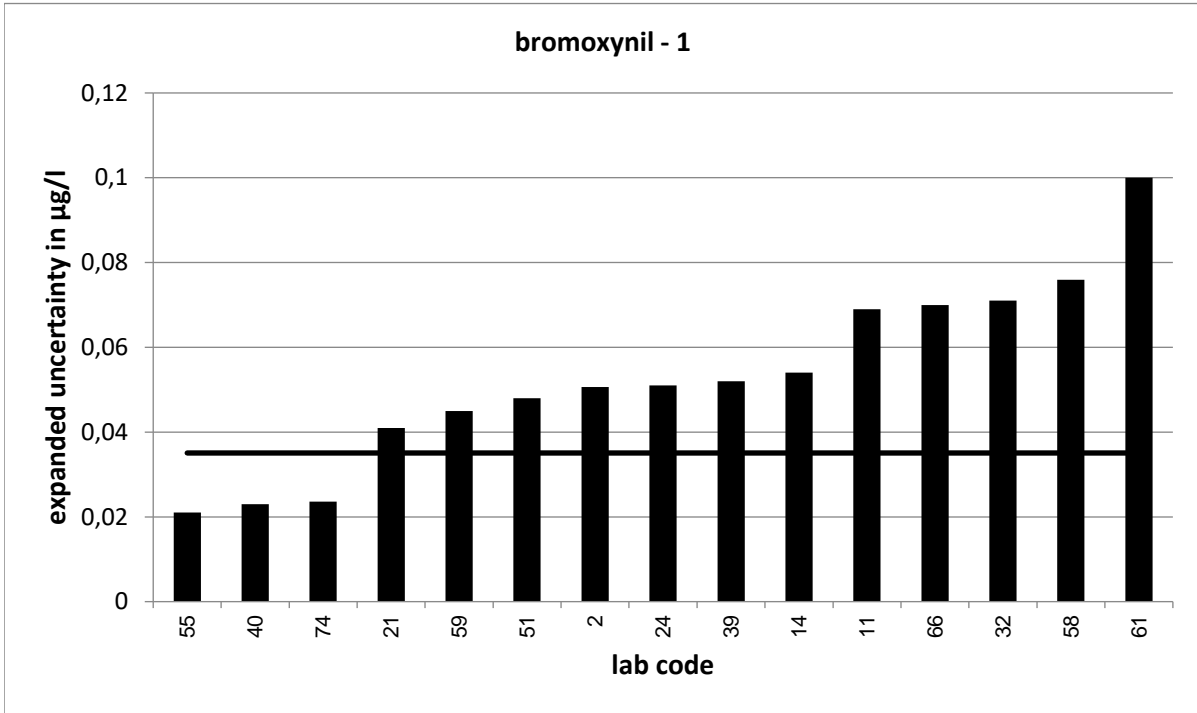
Strongly deviating values are not correctly shown in the diagram.

PT 9/24 - TW O4		bromoxynil - 1			
assigned value [$\mu\text{g/l}$]*		0,2293 \pm 0,0172			
upper tolerance limit [$\mu\text{g/l}$]		0,3148			
lower tolerance limit [$\mu\text{g/l}$]		0,157			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
2	0,272	0,051	1,6	1,0	s
4	0,318			2,1	q
11	0,23	0,069	0,0	0,0	s
12	0,225			-0,1	s
14	0,214	0,054	-0,5	-0,4	s
16	0,231			0,0	s
21	0,231	0,041	0,1	0,0	s
24	0,243	0,051	0,5	0,3	s
26	0,21			-0,5	s
31	0,269			0,9	s
32	0,237	0,071	0,2	0,2	s
37	0,212			-0,5	s
39	0,21	0,052	-0,7	-0,5	s
40	0,17	0,023	-4,1	-1,6	s
49	0,232			0,1	s
51	0,191	0,048	-1,5	-1,1	s
53	0,215			-0,4	s
54	0,249			0,5	s
55	0,221	0,021	-0,6	-0,2	s
56	0,232			0,1	s
58	0,253	0,076	0,6	0,6	s
59	0,227	0,045	-0,1	-0,1	s
61	0,626	0,1	7,8	9,3	u
66	0,283	0,07	1,5	1,3	s
68	0,191			-1,1	s
74	0,196	0,024	-2,3	-0,9	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory

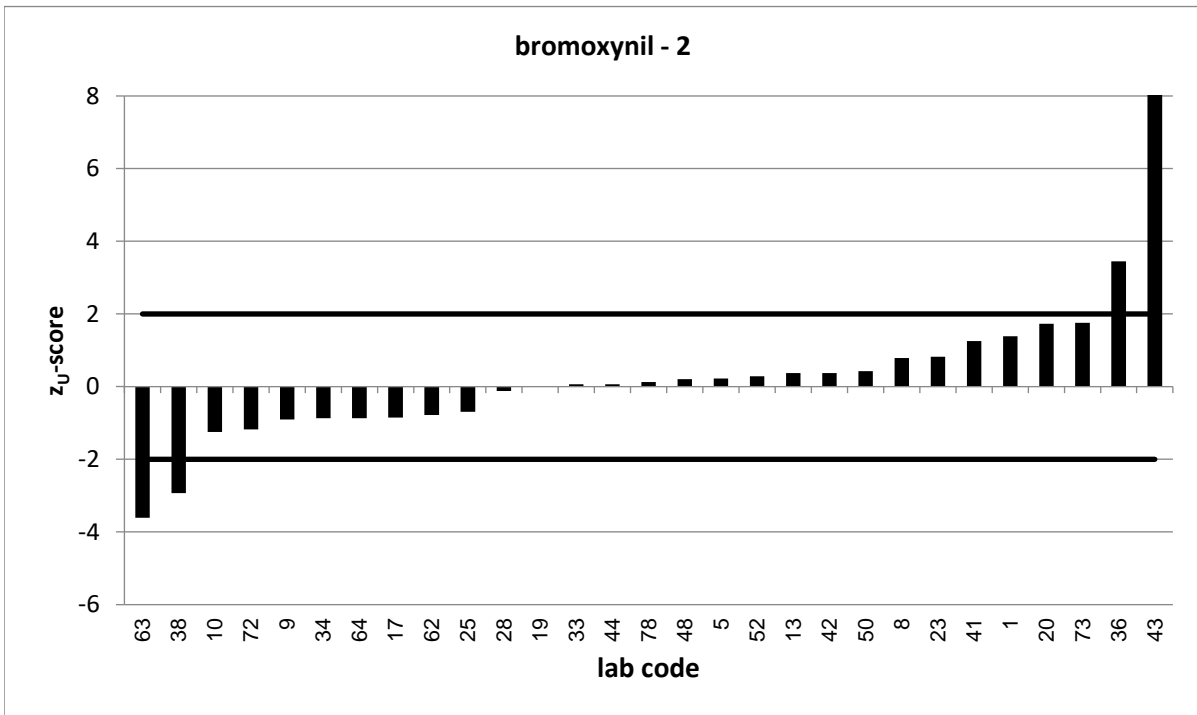
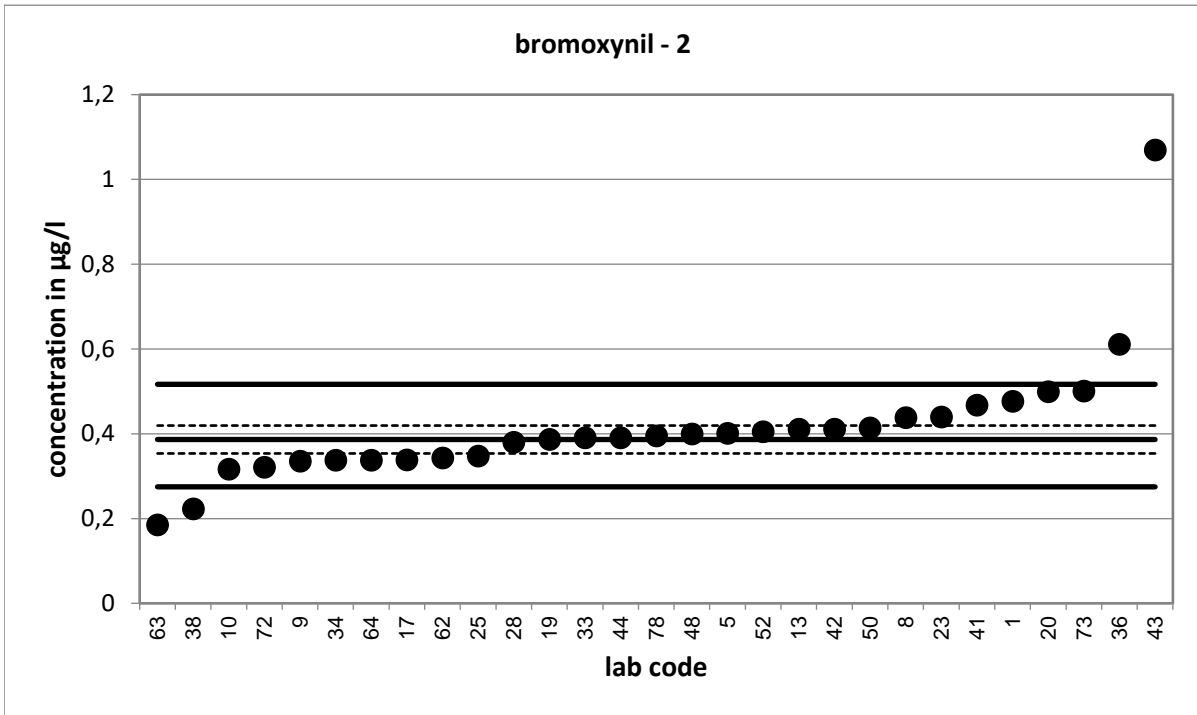




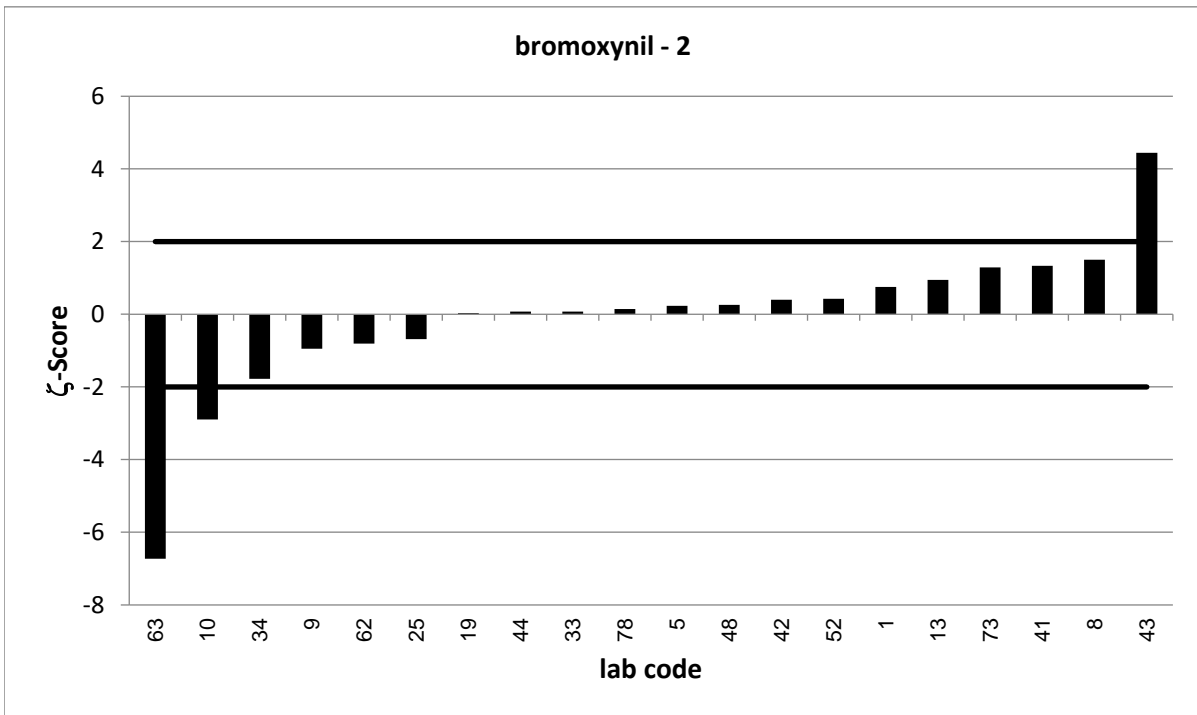
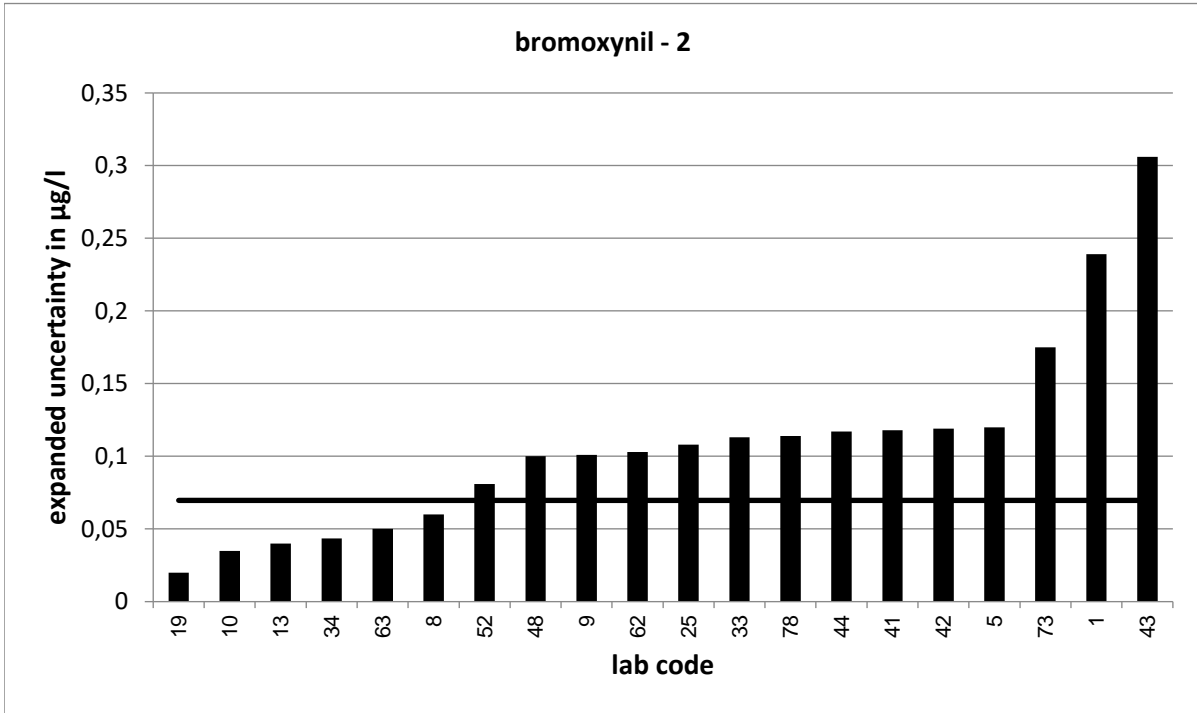
PT 9/24 - TW O4		bromoxynil - 2			
assigned value [$\mu\text{g/l}$]*		0,3865 \pm 0,0329			
upper tolerance limit [$\mu\text{g/l}$]		0,5167			
lower tolerance limit [$\mu\text{g/l}$]		0,2748			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
1	0,477	0,239	0,8	1,4	s
5	0,401	0,12	0,2	0,2	s
8	0,438	0,06	1,5	0,8	s
9	0,336	0,101	-1,0	-0,9	s
10	0,317	0,035	-2,9	-1,2	s
13	0,411	0,04	0,9	0,4	s
17	0,339			-0,9	s
19	0,387	0,02	0,0	0,0	s
20	0,49931			1,7	s
23	0,44			0,8	s
25	0,348	0,108	-0,7	-0,7	s
28	0,38			-0,1	s
33	0,391	0,113	0,1	0,1	s
34	0,338	0,044	-1,8	-0,9	s
36	0,611			3,4	u
38	0,223			-2,9	q
41	0,468	0,118	1,3	1,3	s
42	0,411	0,119	0,4	0,4	s
43	1,07	0,306	4,4	10,5	u
44	0,391	0,117	0,1	0,1	s
48	0,4	0,1	0,3	0,2	s
50	0,414			0,4	s
52	0,405	0,081	0,4	0,3	s
62	0,343	0,103	-0,8	-0,8	s
63	0,185	0,05	-6,7	-3,6	u
64	0,338			-0,9	s
72	0,321			-1,2	s
73	0,501	0,175	1,3	1,8	s
78	0,395	0,114	0,1	0,1	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



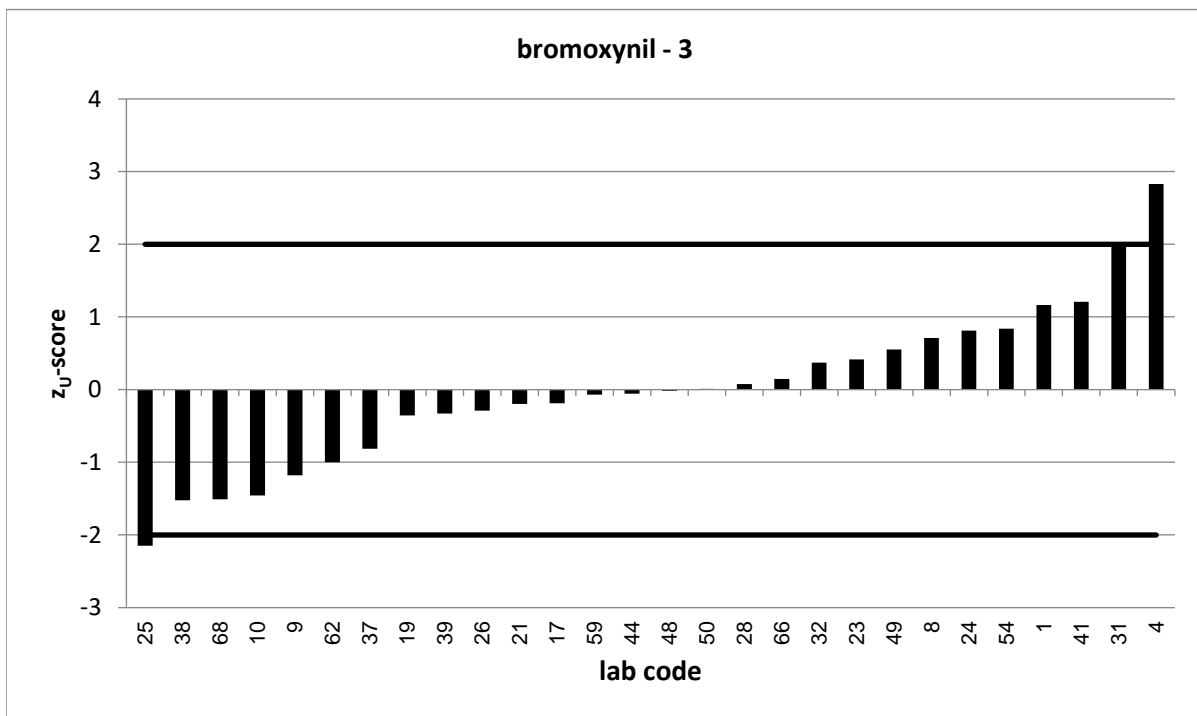
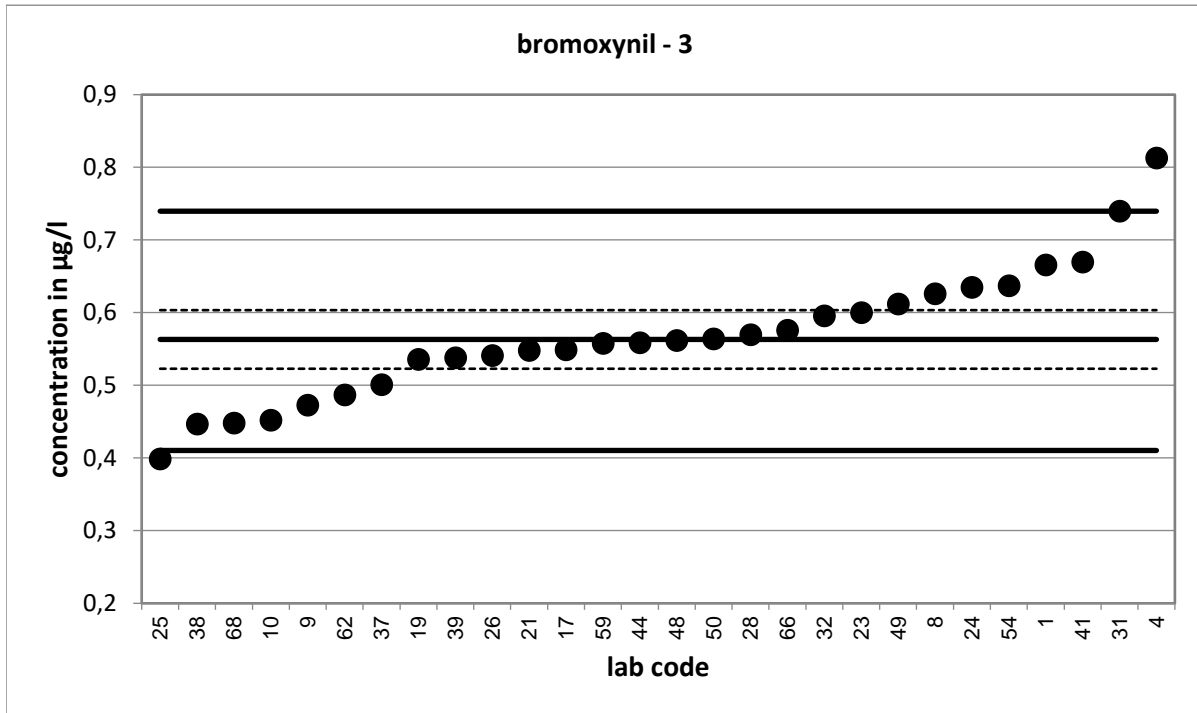
Strongly deviating values are not correctly shown in the diagram.

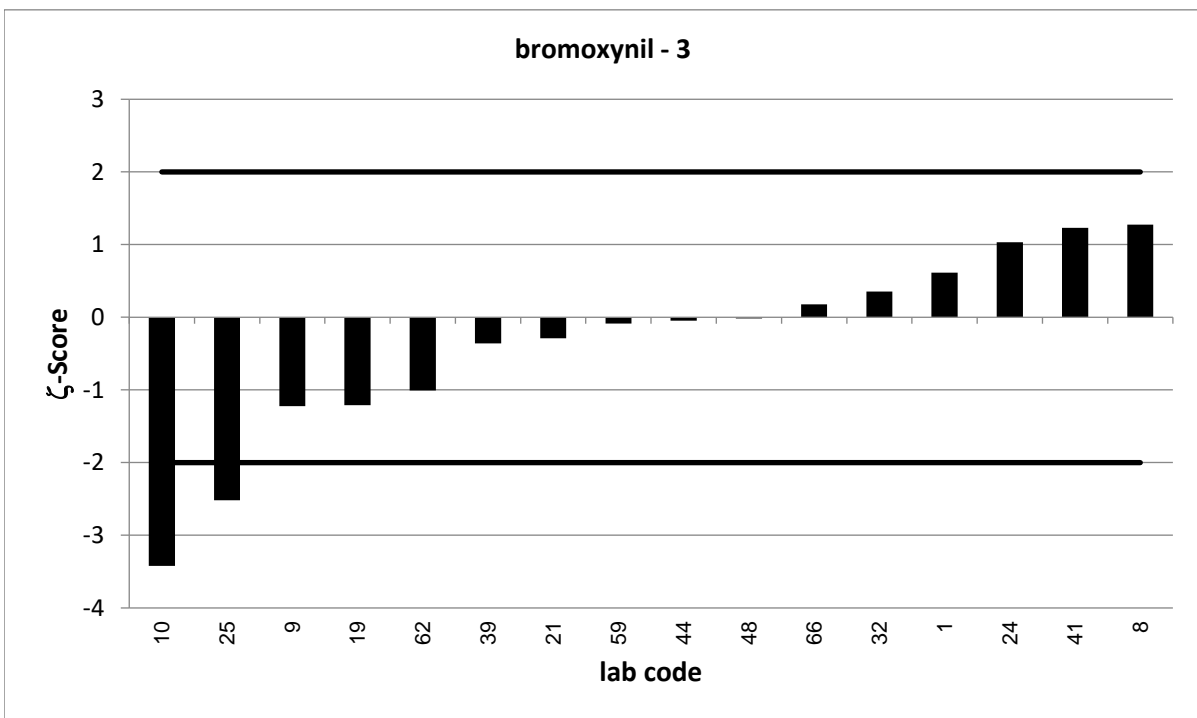
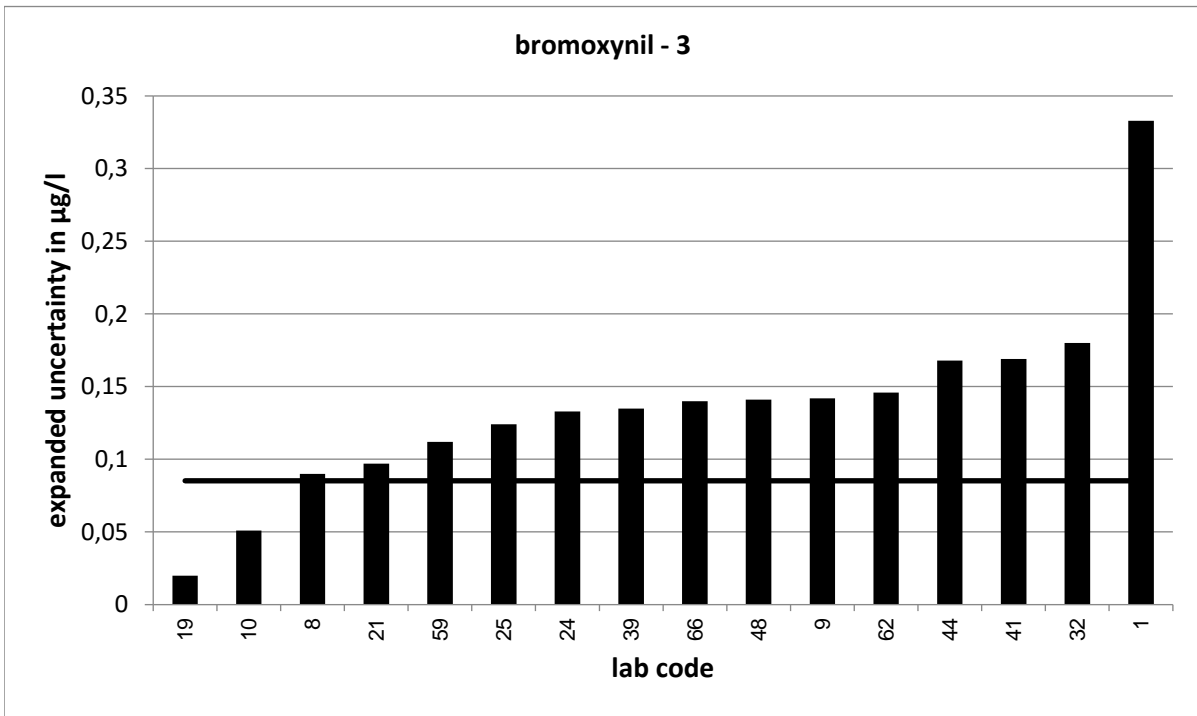


PT 9/24 - TW O4		bromoxynil - 3			
assigned value [$\mu\text{g/l}$]*		0,5632 \pm 0,0403			
upper tolerance limit [$\mu\text{g/l}$]		0,7396			
lower tolerance limit [$\mu\text{g/l}$]		0,4104			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
1	0,666	0,333	0,6	1,2	s
4	0,813			2,8	q
8	0,626	0,09	1,3	0,7	s
9	0,473	0,142	-1,2	-1,2	s
10	0,452	0,051	-3,4	-1,5	s
17	0,549			-0,2	s
19	0,536	0,02	-1,2	-0,4	s
21	0,548	0,097	-0,3	-0,2	s
23	0,6			0,4	s
24	0,635	0,133	1,0	0,8	s
25	0,399	0,124	-2,5	-2,1	q
26	0,541			-0,3	s
28	0,57			0,1	s
31	0,74			2,0	s
32	0,596	0,18	0,4	0,4	s
37	0,501			-0,8	s
38	0,447			-1,5	s
39	0,538	0,135	-0,4	-0,3	s
41	0,67	0,169	1,2	1,2	s
44	0,559	0,168	0,0	-0,1	s
48	0,562	0,141	0,0	0,0	s
49	0,612			0,6	s
50	0,564			0,0	s
54	0,637			0,8	s
59	0,558	0,112	-0,1	-0,1	s
62	0,487	0,146	-1,0	-1,0	s
66	0,576	0,14	0,2	0,1	s
68	0,448			-1,5	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory

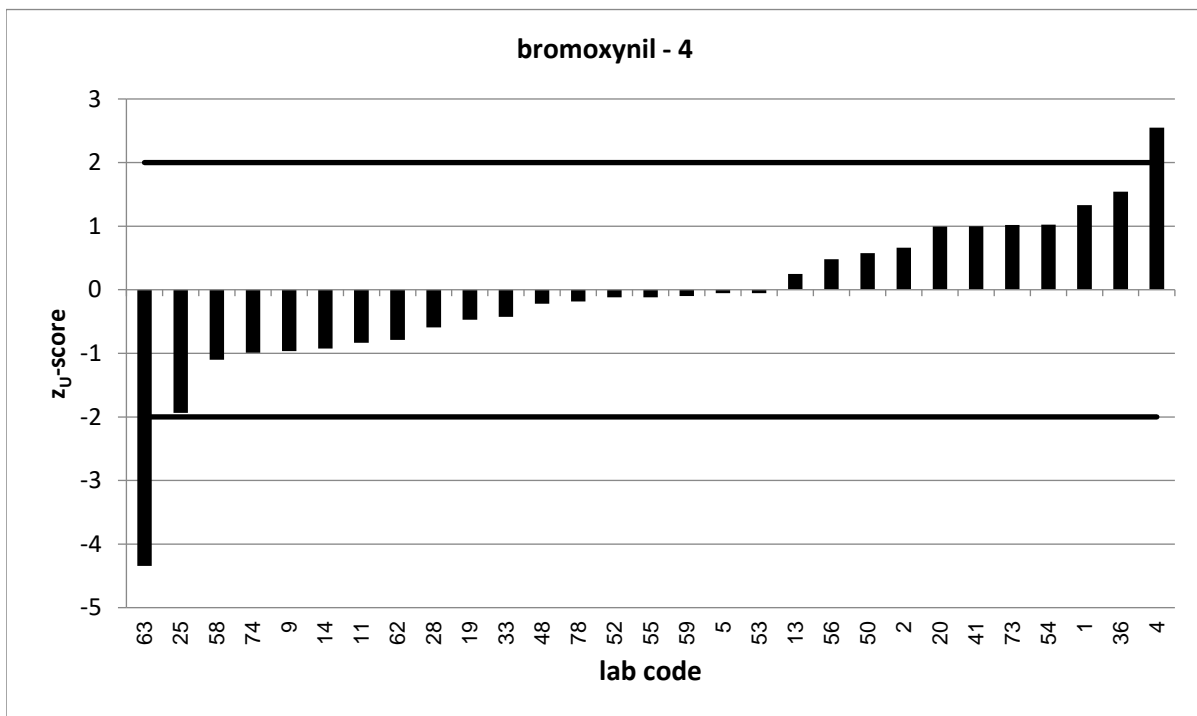
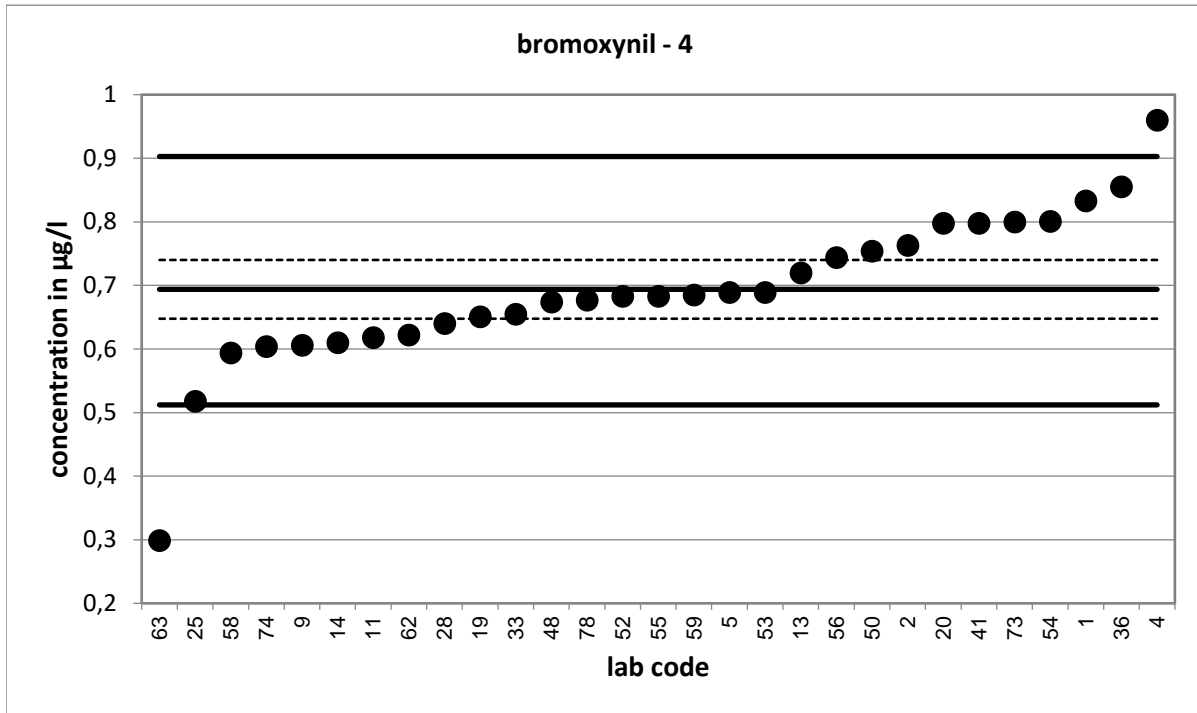


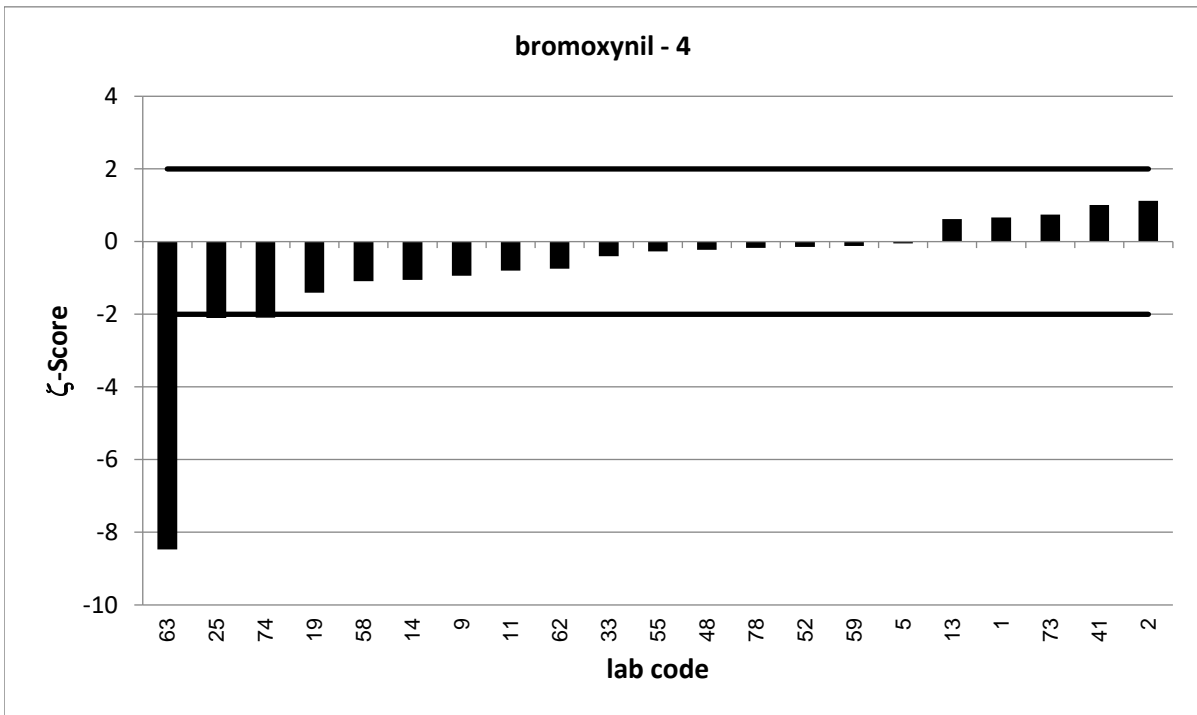
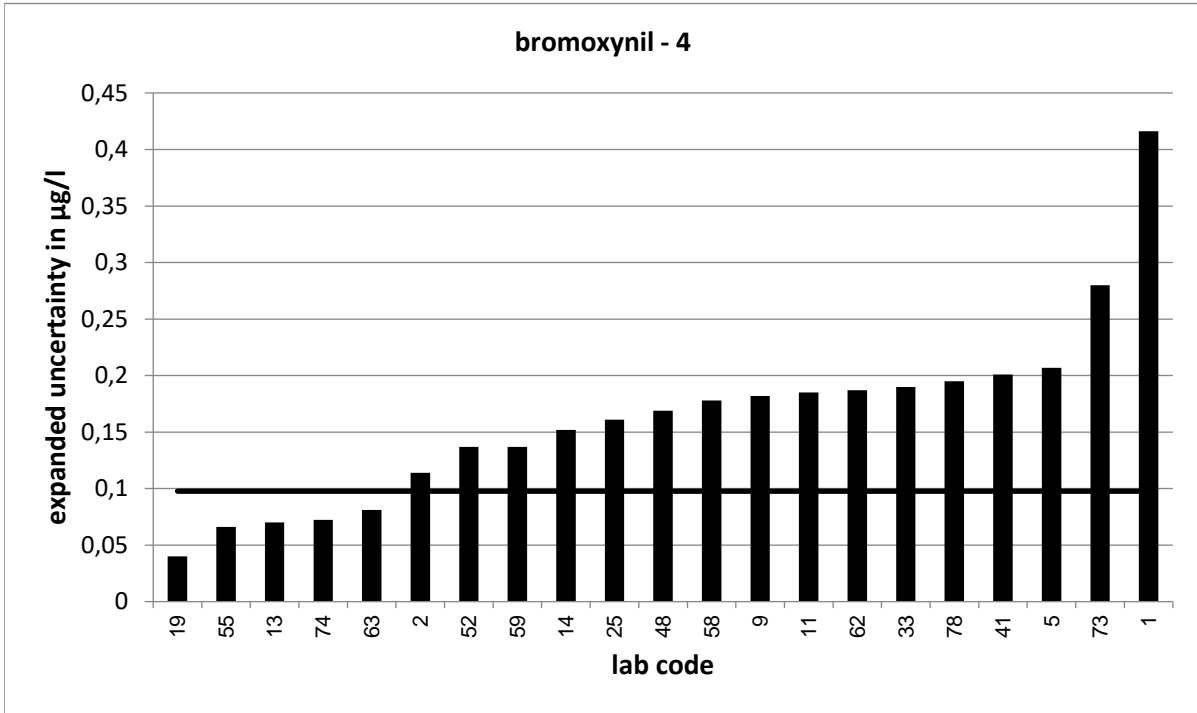


PT 9/24 - TW O4		bromoxynil - 4			
assigned value [$\mu\text{g/l}$]*		0,6938 \pm 0,0462			
upper tolerance limit [$\mu\text{g/l}$]		0,9027			
lower tolerance limit [$\mu\text{g/l}$]		0,5121			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
1	0,833	0,416	0,7	1,3	s
2	0,763	0,114	1,1	0,7	s
4	0,96			2,5	q
5	0,689	0,207	0,0	-0,1	s
9	0,606	0,182	-0,9	-1,0	s
11	0,618	0,185	-0,8	-0,8	s
13	0,72	0,07	0,6	0,3	s
14	0,61	0,152	-1,1	-0,9	s
19	0,651	0,04	-1,4	-0,5	s
20	0,79782			1,0	s
25	0,518	0,161	-2,1	-1,9	s
28	0,64			-0,6	s
33	0,655	0,19	-0,4	-0,4	s
36	0,855			1,5	s
41	0,798	0,201	1,0	1,0	s
48	0,674	0,169	-0,2	-0,2	s
50	0,754			0,6	s
52	0,683	0,137	-0,1	-0,1	s
53	0,689			-0,1	s
54	0,801			1,0	s
55	0,683	0,066	-0,3	-0,1	s
56	0,744			0,5	s
58	0,594	0,178	-1,1	-1,1	s
59	0,685	0,137	-0,1	-0,1	s
62	0,622	0,187	-0,7	-0,8	s
63	0,299	0,081	-8,5	-4,3	u
73	0,8	0,28	0,7	1,0	s
74	0,604	0,072	-2,1	-1,0	s
78	0,677	0,195	-0,2	-0,2	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory

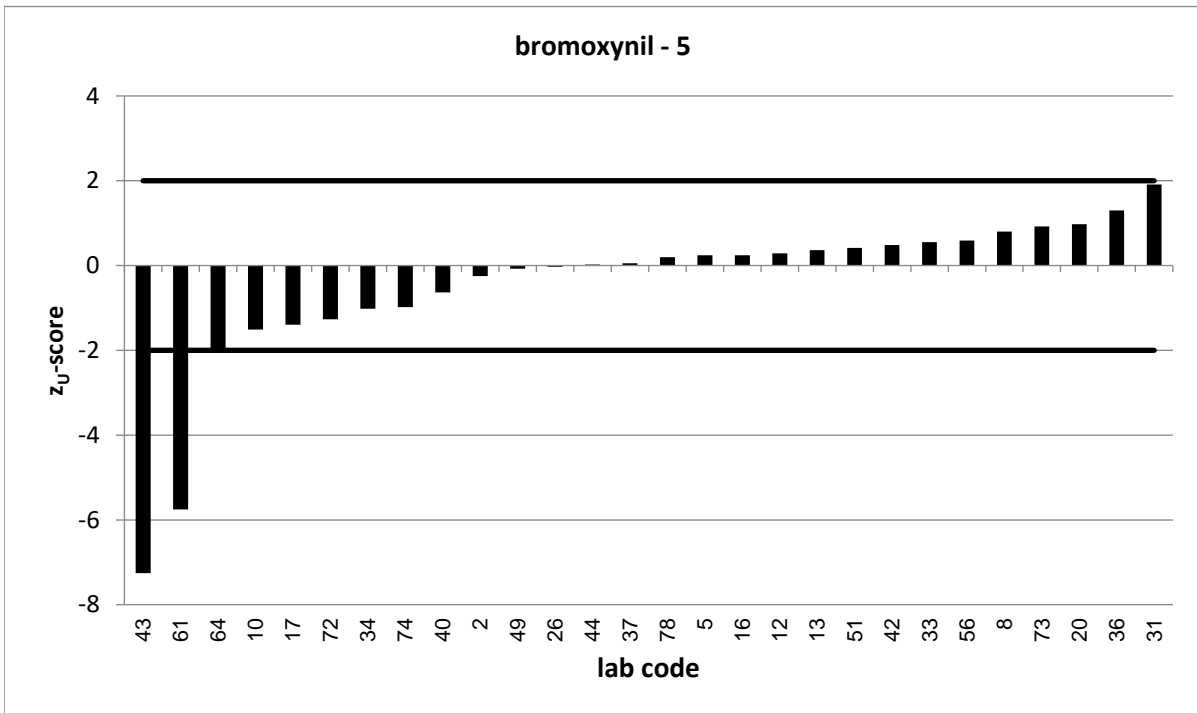
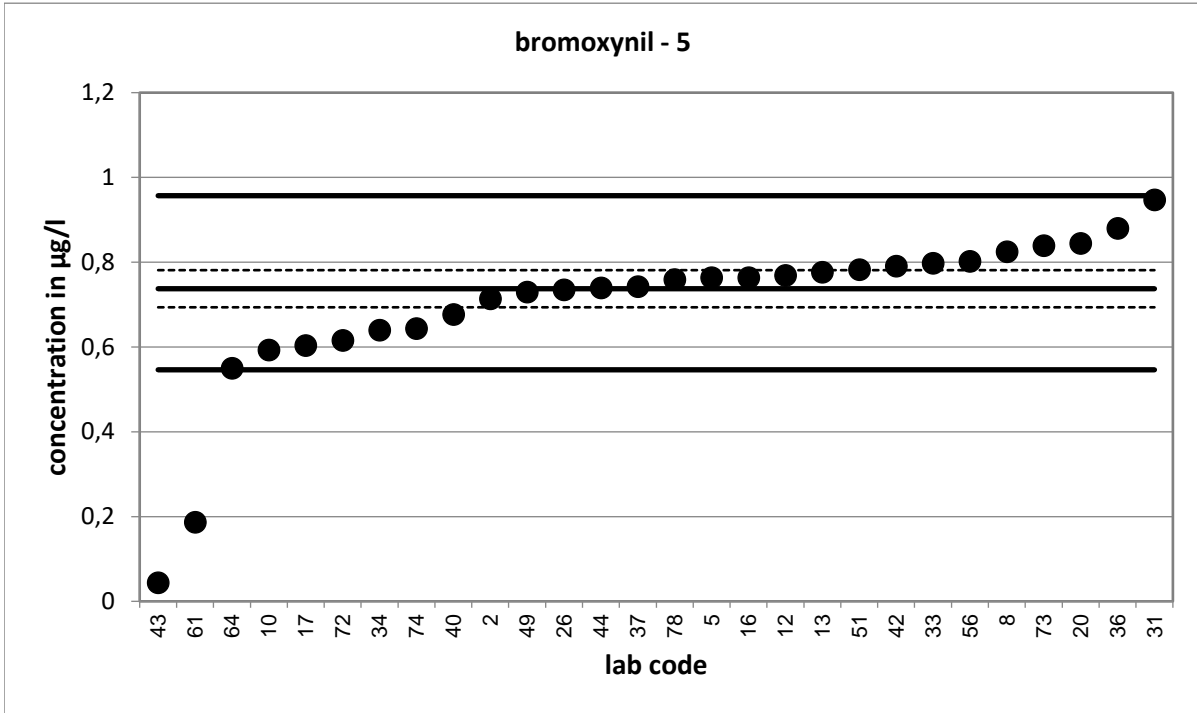


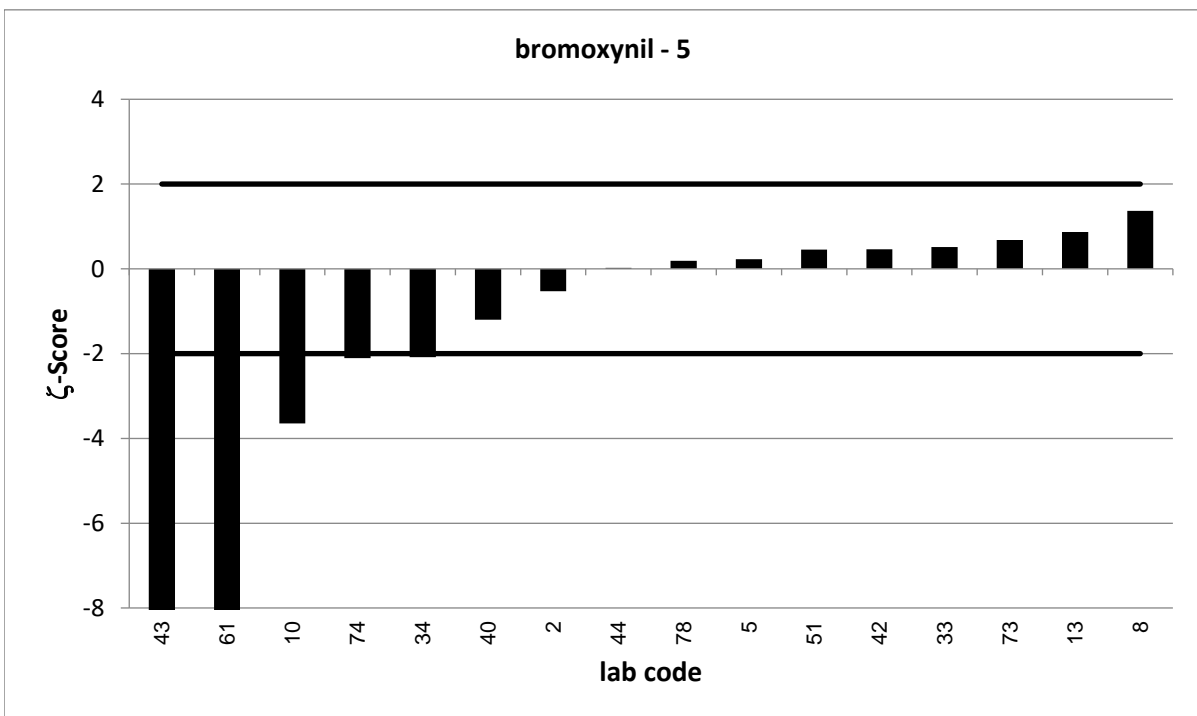
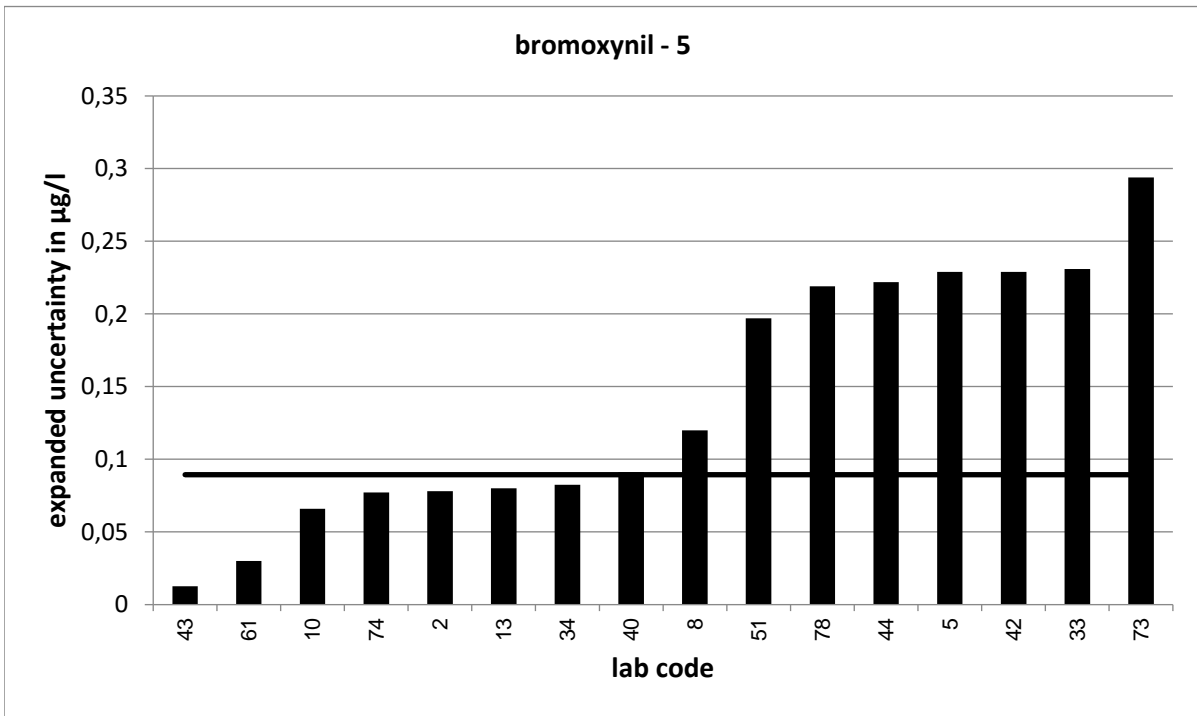


PT 9/24 - TW O4		bromoxynil - 5			
assigned value [$\mu\text{g/l}$]*		0,7375 \pm 0,0438			
upper tolerance limit [$\mu\text{g/l}$]		0,9569			
lower tolerance limit [$\mu\text{g/l}$]		0,5462			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
2	0,714	0,078	-0,5	-0,2	s
5	0,764	0,229	0,2	0,2	s
8	0,825	0,12	1,4	0,8	s
10	0,593	0,066	-3,6	-1,5	s
12	0,769			0,3	s
13	0,777	0,08	0,9	0,4	s
16	0,764			0,2	s
17	0,604			-1,4	s
20	0,84457			1,0	s
26	0,735			0,0	s
31	0,947			1,9	s
33	0,798	0,231	0,5	0,6	s
34	0,64	0,083	-2,1	-1,0	s
36	0,88			1,3	s
37	0,743			0,1	s
40	0,677	0,091	-1,2	-0,6	s
42	0,791	0,229	0,5	0,5	s
43	0,0438	0,013	-30,4	-7,3	u
44	0,74	0,222	0,0	0,0	s
49	0,73			-0,1	s
51	0,783	0,197	0,5	0,4	s
56	0,802			0,6	s
61	0,187	0,03	-20,7	-5,8	u
64	0,55			-2,0	s
72	0,616			-1,3	s
73	0,839	0,294	0,7	0,9	s
74	0,644	0,077	-2,1	-1,0	s
78	0,759	0,219	0,2	0,2	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



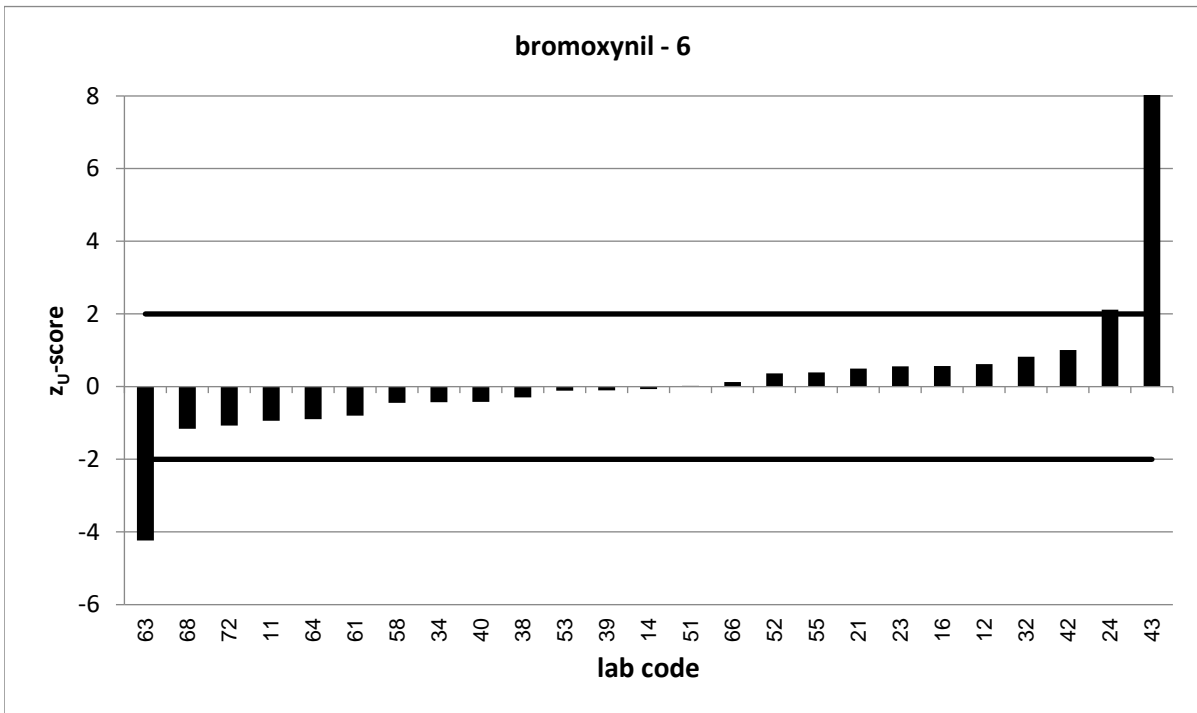
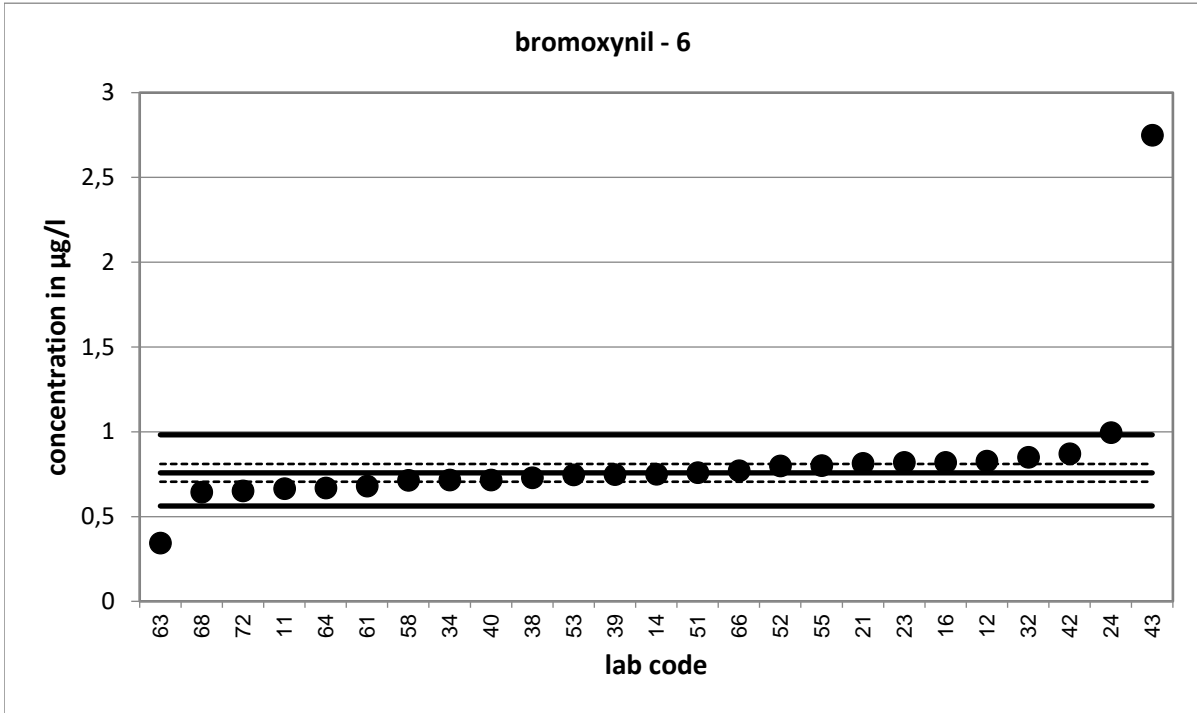


Strongly deviating values are not correctly shown in the diagram.

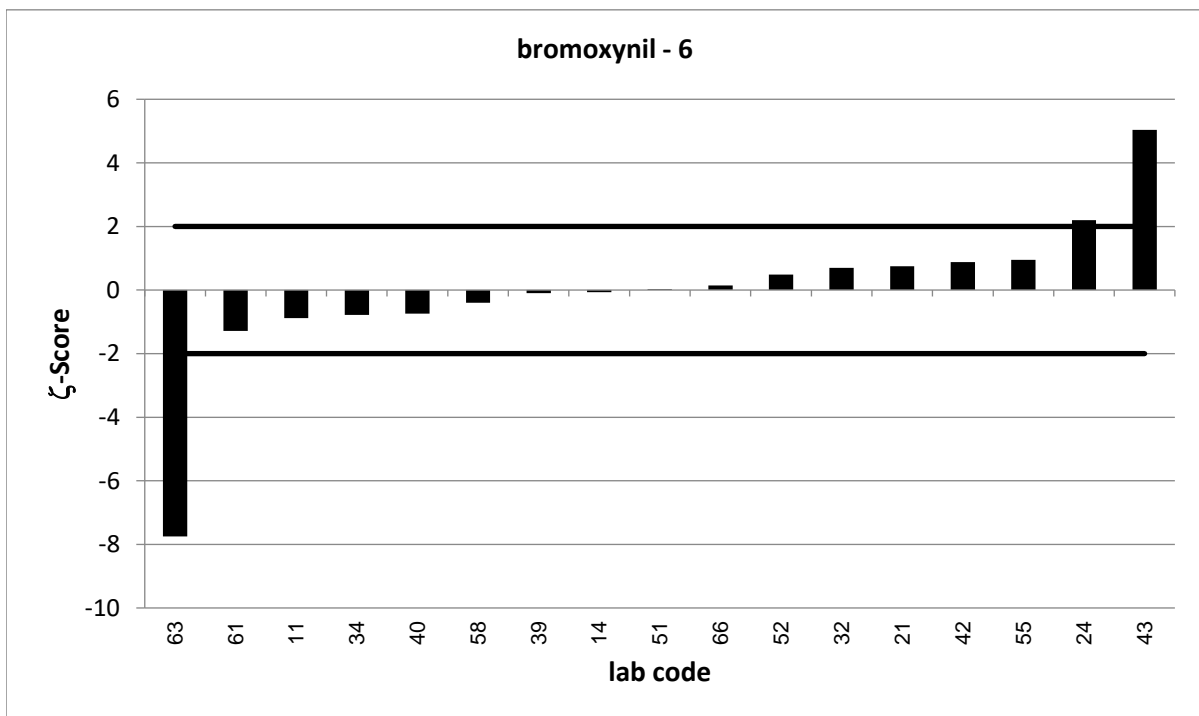
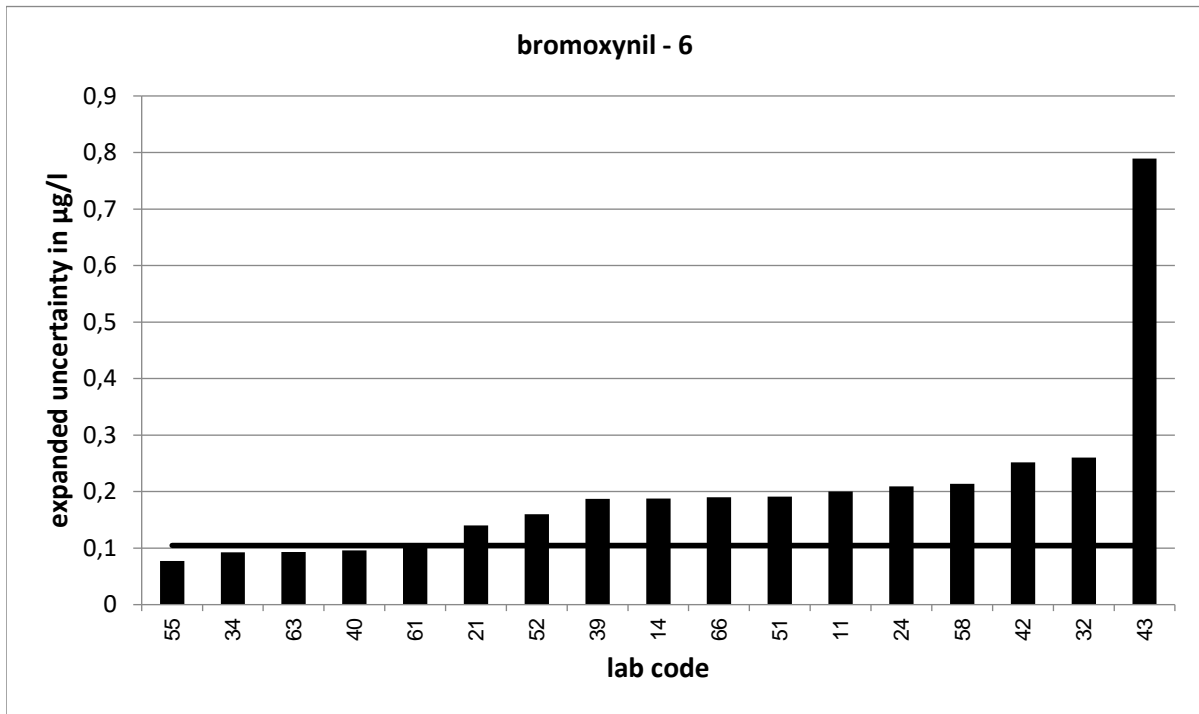
PT 9/24 - TW O4		bromoxynil - 6			
assigned value [$\mu\text{g/l}$]*		0,7578 \pm 0,0524			
upper tolerance limit [$\mu\text{g/l}$]		0,982			
lower tolerance limit [$\mu\text{g/l}$]		0,5621			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
11	0,666	0,2	-0,9	-0,9	s
12	0,827			0,6	s
14	0,751	0,188	-0,1	-0,1	s
16	0,821			0,6	s
21	0,814	0,14	0,8	0,5	s
23	0,82			0,6	s
24	0,995	0,209	2,2	2,1	q
32	0,85	0,26	0,7	0,8	s
34	0,716	0,092	-0,8	-0,4	s
38	0,729			-0,3	s
39	0,748	0,187	-0,1	-0,1	s
40	0,717	0,096	-0,7	-0,4	s
42	0,871	0,252	0,9	1,0	s
43	2,75	0,789	5,0	17,8	u
51	0,76	0,191	0,0	0,0	s
52	0,799	0,16	0,5	0,4	s
53	0,747			-0,1	s
55	0,802	0,077	1,0	0,4	s
58	0,714	0,214	-0,4	-0,4	s
61	0,68	0,109	-1,3	-0,8	s
63	0,344	0,093	-7,8	-4,2	u
64	0,67			-0,9	s
66	0,772	0,19	0,1	0,1	s
68	0,644			-1,2	s
72	0,653			-1,1	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



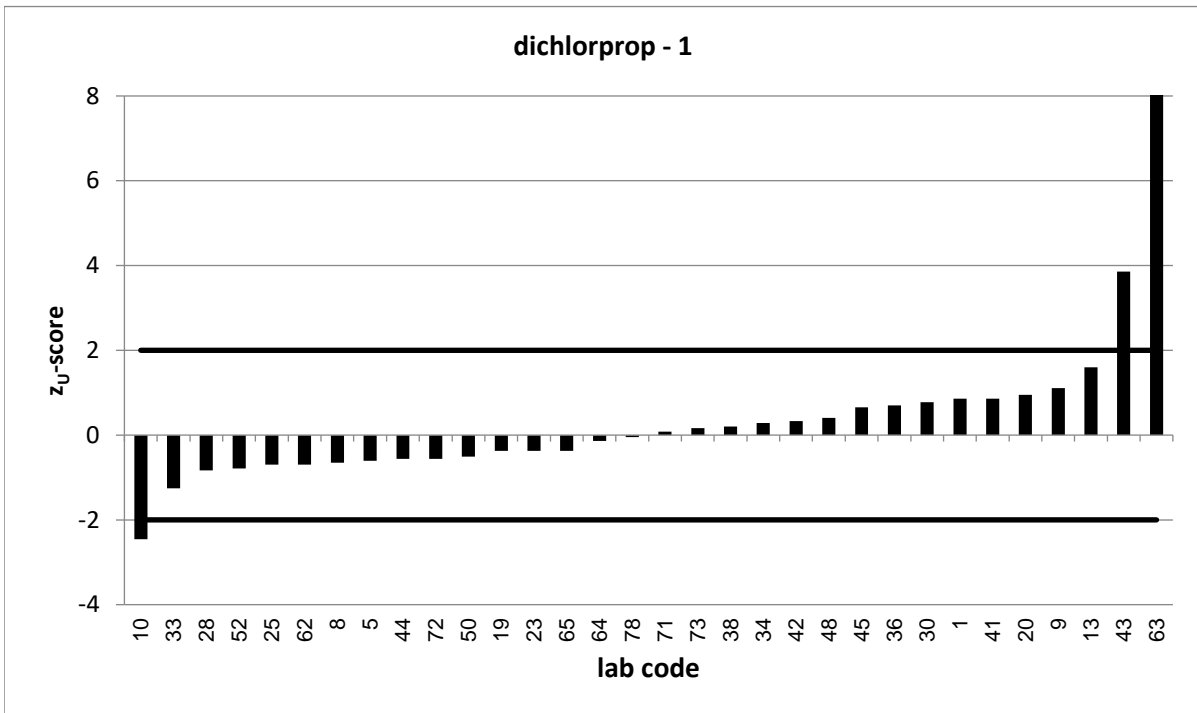
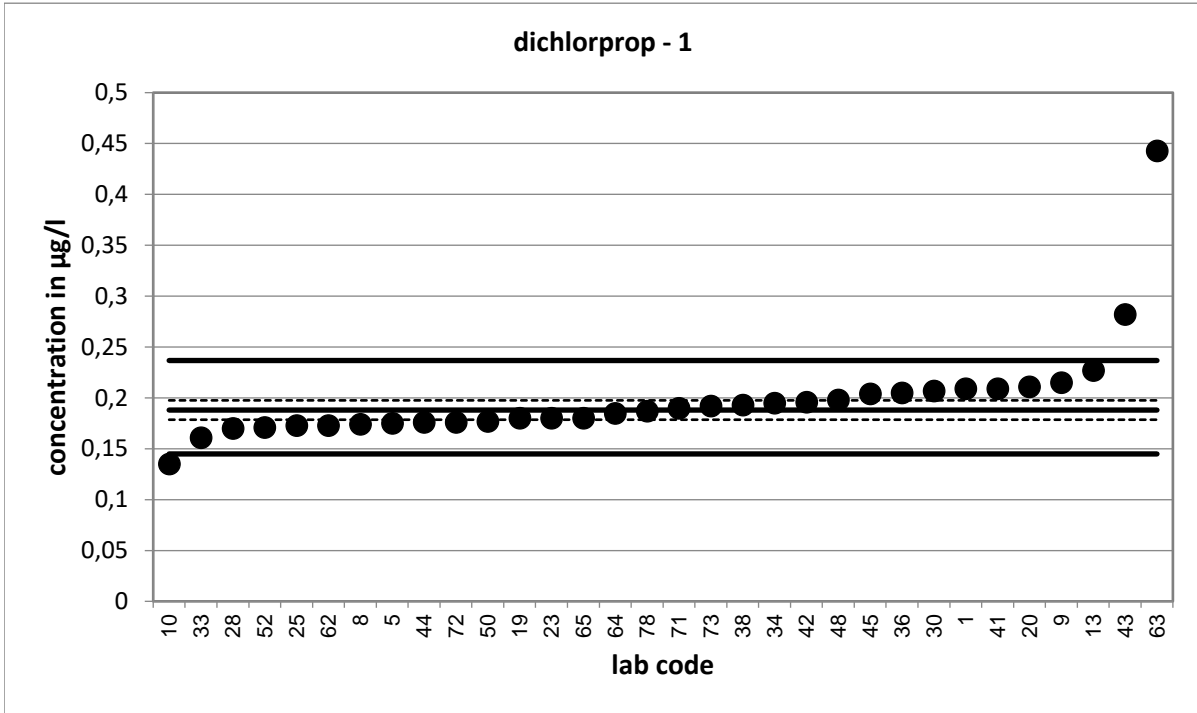
Strongly deviating values are not correctly shown in the diagram.



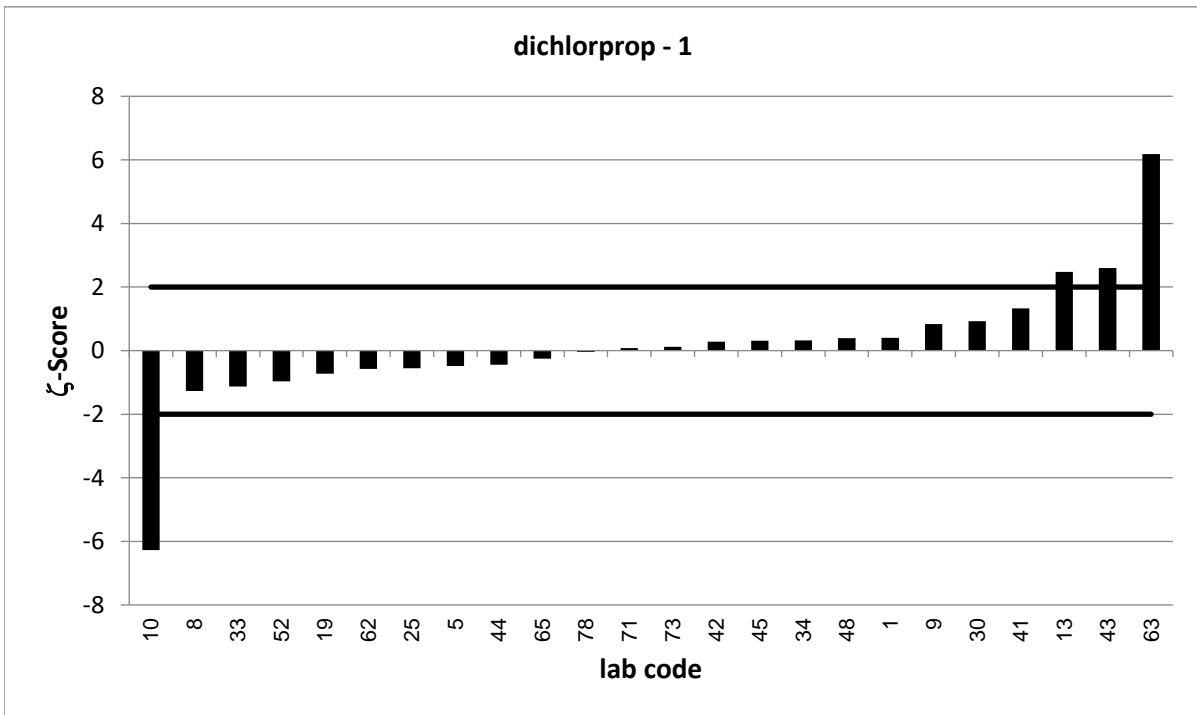
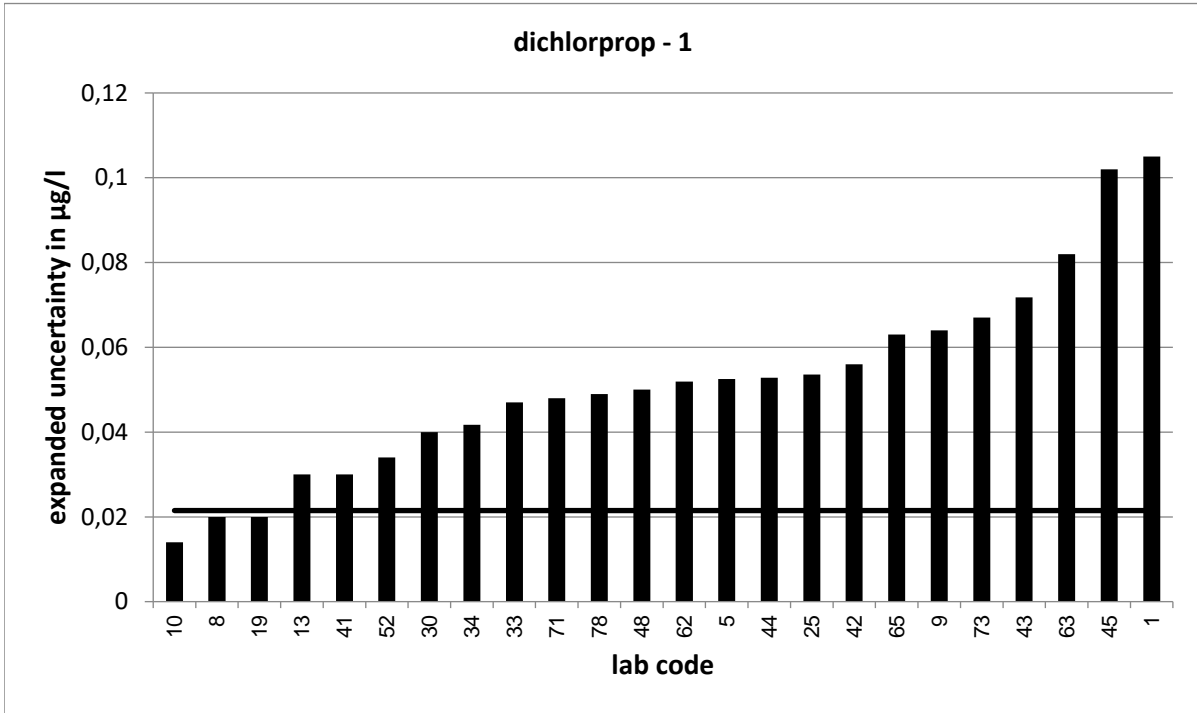
PT 9/24 - TW O4		dichlorprop - 1			
assigned value [$\mu\text{g/l}$]*		0,188 \pm 0,0095			
upper tolerance limit [$\mu\text{g/l}$]		0,2367			
lower tolerance limit [$\mu\text{g/l}$]		0,1449			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
1	0,209	0,105	0,4	0,9	s
5	0,175	0,053	-0,5	-0,6	s
8	0,174	0,02	-1,3	-0,7	s
9	0,215	0,064	0,8	1,1	s
10	0,135	0,014	-6,3	-2,5	q
13	0,227	0,03	2,5	1,6	s
19	0,18	0,02	-0,7	-0,4	s
20	0,2111			0,9	s
23	0,18			-0,4	s
25	0,173	0,054	-0,6	-0,7	s
28	0,17			-0,8	s
30	0,207	0,04	0,9	0,8	s
33	0,161	0,047	-1,1	-1,3	s
34	0,195	0,042	0,3	0,3	s
36	0,205			0,7	s
38	0,193			0,2	s
41	0,209	0,03	1,3	0,9	s
42	0,196	0,056	0,3	0,3	s
43	0,282	0,072	2,6	3,9	u
44	0,176	0,053	-0,4	-0,6	s
45	0,204	0,102	0,3	0,7	s
48	0,198	0,05	0,4	0,4	s
50	0,177			-0,5	s
52	0,171	0,034	-1,0	-0,8	s
62	0,173	0,052	-0,6	-0,7	s
63	0,443	0,082	6,2	10,5	u
64	0,185			-0,1	s
65	0,18	0,063	-0,3	-0,4	s
71	0,19	0,048	0,1	0,1	s
72	0,176			-0,6	s
73	0,192	0,067	0,1	0,2	s
78	0,187	0,049	0,0	0,0	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



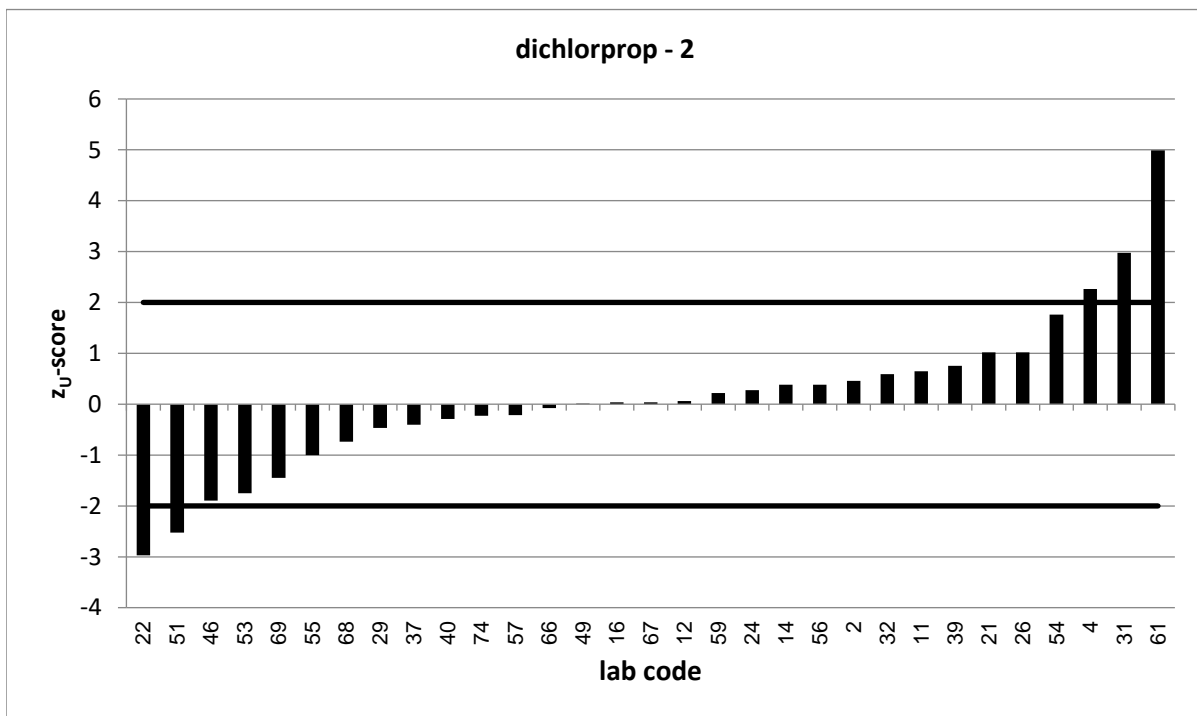
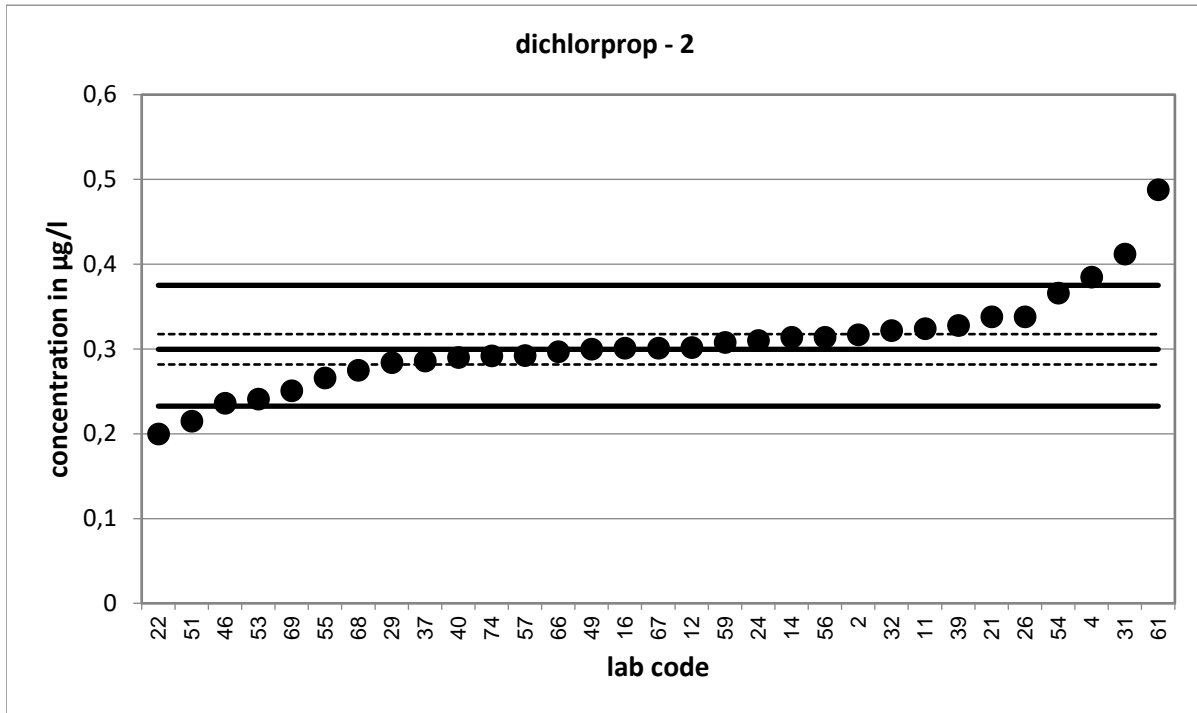
Strongly deviating values are not correctly shown in the diagram.

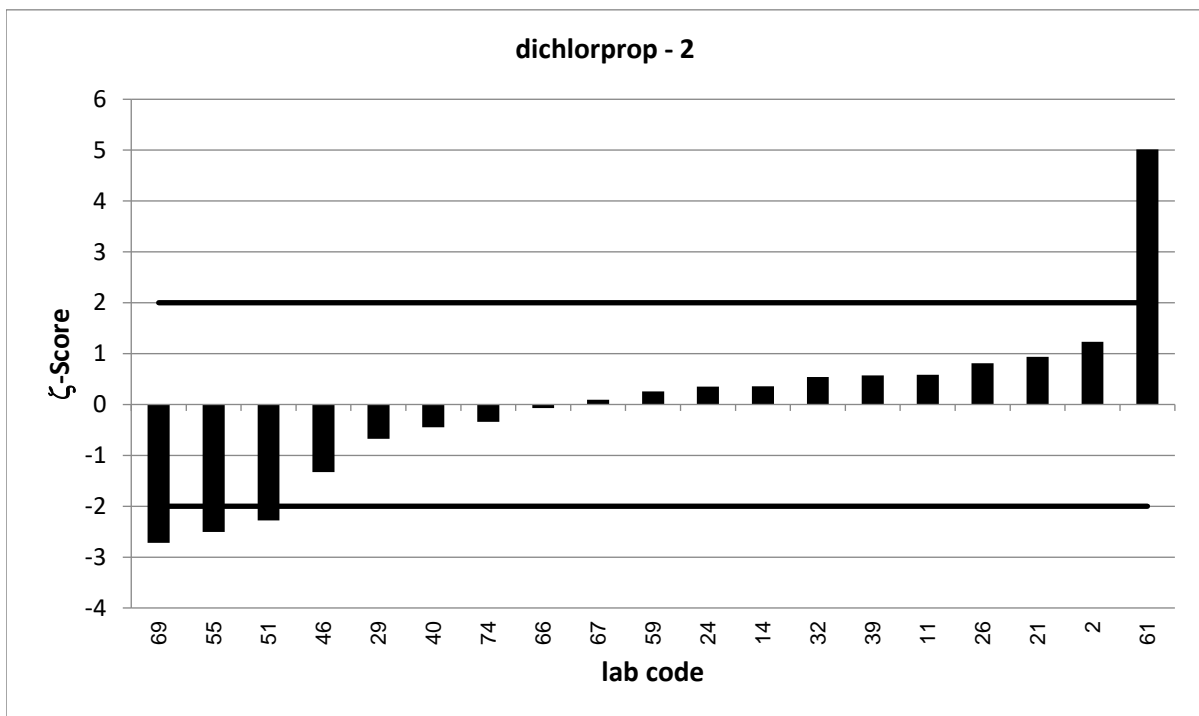
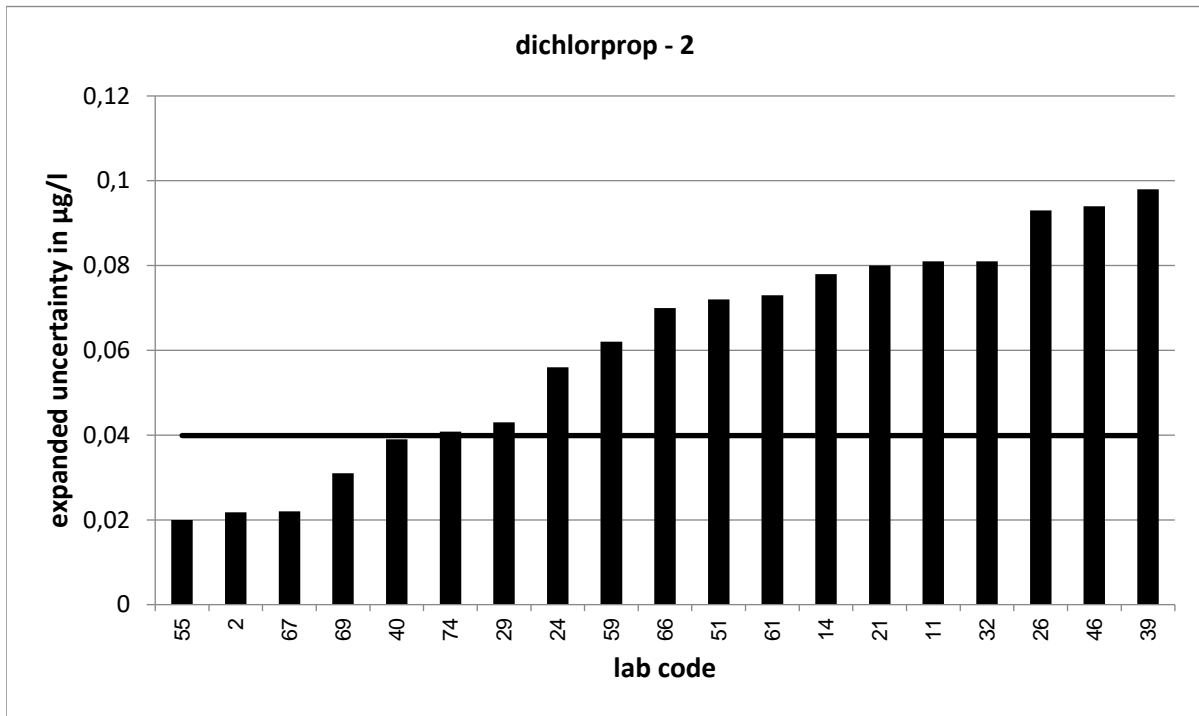


PT 9/24 - TW O4		dichlorprop - 2			
assigned value [$\mu\text{g/l}$]*		0,2996 \pm 0,0179			
upper tolerance limit [$\mu\text{g/l}$]		0,3751			
lower tolerance limit [$\mu\text{g/l}$]		0,2326			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
2	0,317	0,022	1,2	0,5	s
4	0,385			2,3	q
11	0,324	0,081	0,6	0,6	s
12	0,302			0,1	s
14	0,314	0,078	0,4	0,4	s
16	0,301			0,0	s
21	0,338	0,08	0,9	1,0	s
22	0,2			-3,0	u
24	0,31	0,056	0,4	0,3	s
26	0,338	0,093	0,8	1,0	s
29	0,284	0,043	-0,7	-0,5	s
31	0,412			3,0	u
32	0,322	0,081	0,5	0,6	s
37	0,286			-0,4	s
39	0,328	0,098	0,6	0,8	s
40	0,29	0,039	-0,4	-0,3	s
46	0,236	0,094	-1,3	-1,9	s
49	0,3			0,0	s
51	0,215	0,072	-2,3	-2,5	q
53	0,241			-1,7	s
54	0,366			1,8	s
55	0,266	0,02	-2,5	-1,0	s
56	0,314			0,4	s
57	0,2924			-0,2	s
59	0,308	0,062	0,3	0,2	s
61	0,488	0,073	5,0	5,0	u
66	0,297	0,07	-0,1	-0,1	s
67	0,301	0,022	0,1	0,0	s
68	0,275			-0,7	s
69	0,251	0,031	-2,7	-1,5	s
74	0,292	0,041	-0,3	-0,2	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory

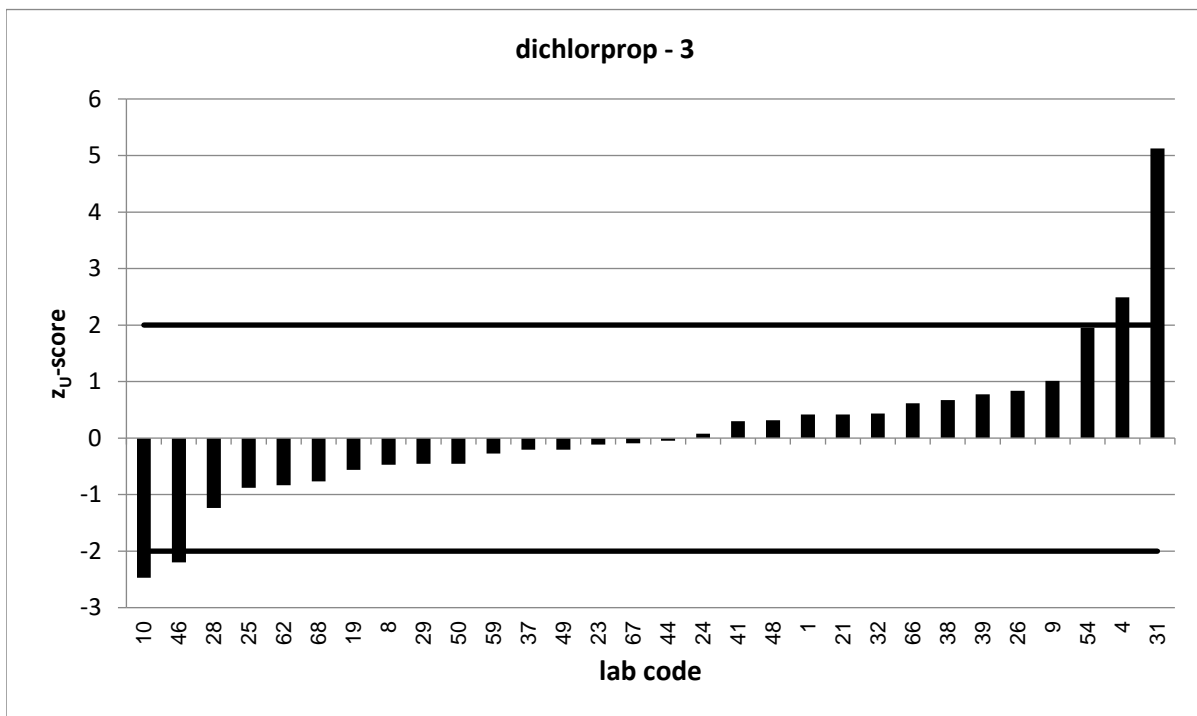
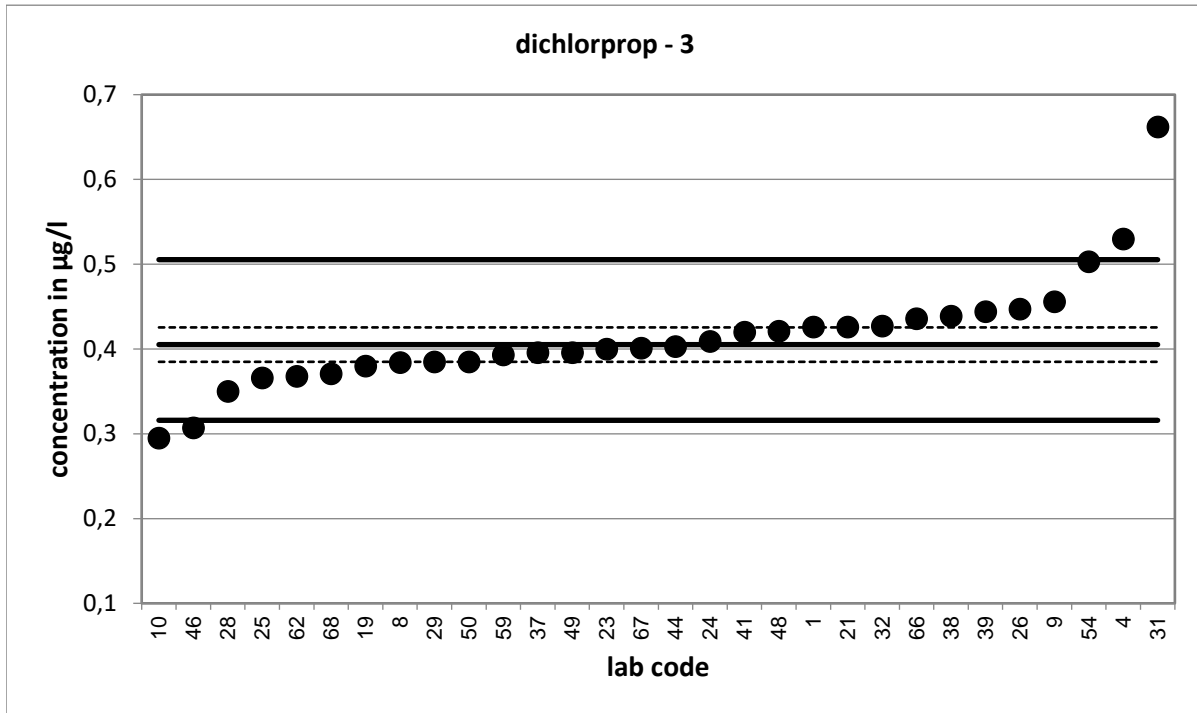


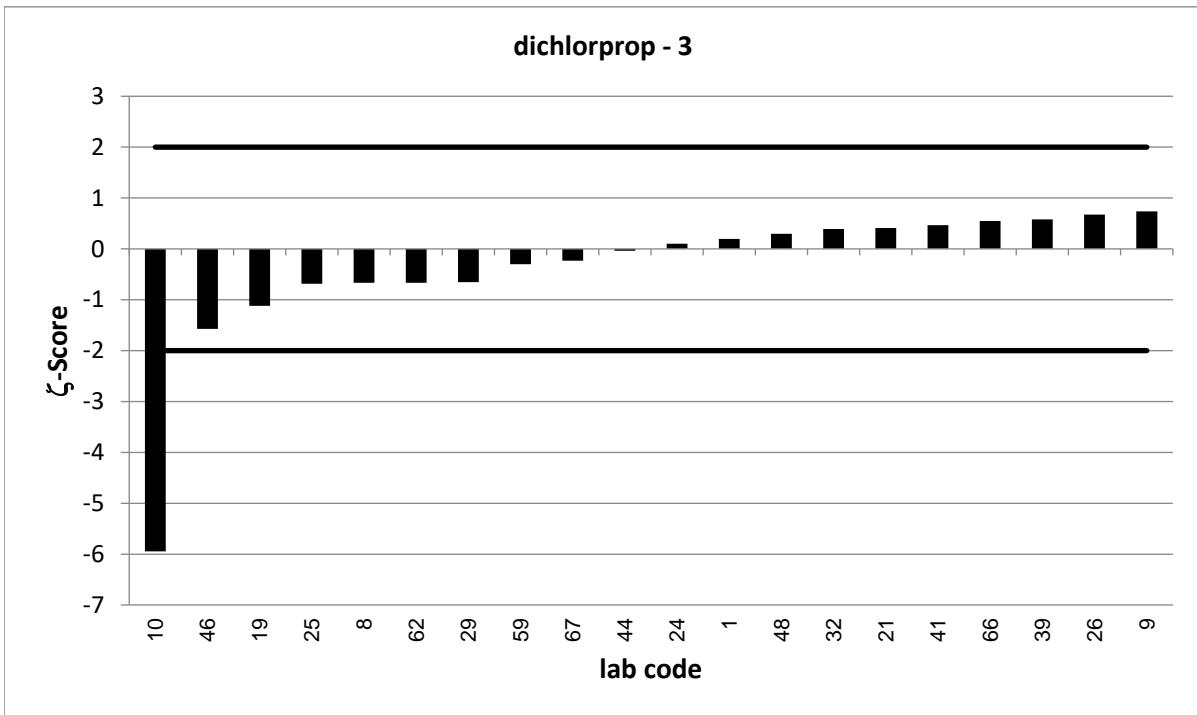
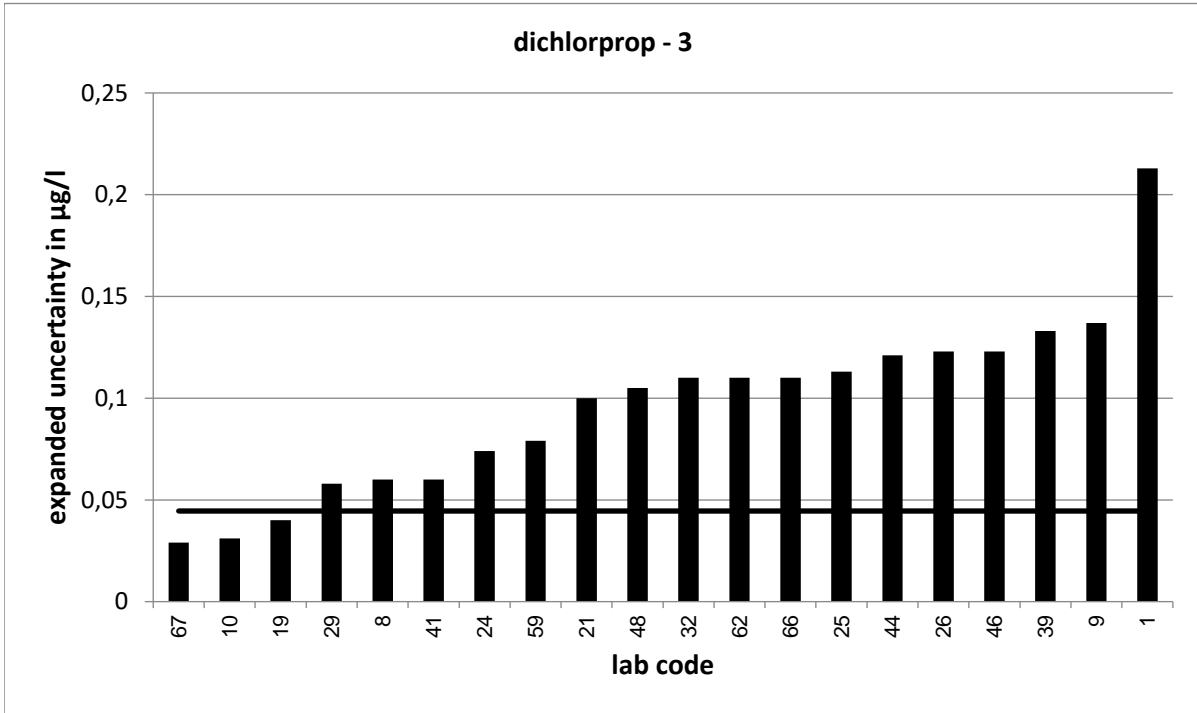


PT 9/24 - TW O4		dichlorprop - 3			
assigned value [$\mu\text{g/l}$]*		0,4052 \pm 0,0203			
upper tolerance limit [$\mu\text{g/l}$]		0,5054			
lower tolerance limit [$\mu\text{g/l}$]		0,3159			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
1	0,426	0,213	0,2	0,4	s
4	0,53			2,5	q
8	0,384	0,06	-0,7	-0,5	s
9	0,456	0,137	0,7	1,0	s
10	0,295	0,031	-5,9	-2,5	q
19	0,38	0,04	-1,1	-0,6	s
21	0,426	0,1	0,4	0,4	s
23	0,4			-0,1	s
24	0,409	0,074	0,1	0,1	s
25	0,366	0,113	-0,7	-0,9	s
26	0,447	0,123	0,7	0,8	s
28	0,35			-1,2	s
29	0,385	0,058	-0,7	-0,5	s
31	0,662			5,1	u
32	0,427	0,11	0,4	0,4	s
37	0,396			-0,2	s
38	0,439			0,7	s
39	0,444	0,133	0,6	0,8	s
41	0,42	0,06	0,5	0,3	s
44	0,403	0,121	0,0	0,0	s
46	0,307	0,123	-1,6	-2,2	q
48	0,421	0,105	0,3	0,3	s
49	0,396			-0,2	s
50	0,385			-0,5	s
54	0,503			2,0	s
59	0,393	0,079	-0,3	-0,3	s
62	0,368	0,11	-0,7	-0,8	s
66	0,436	0,11	0,6	0,6	s
67	0,401	0,029	-0,2	-0,1	s
68	0,371			-0,8	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory

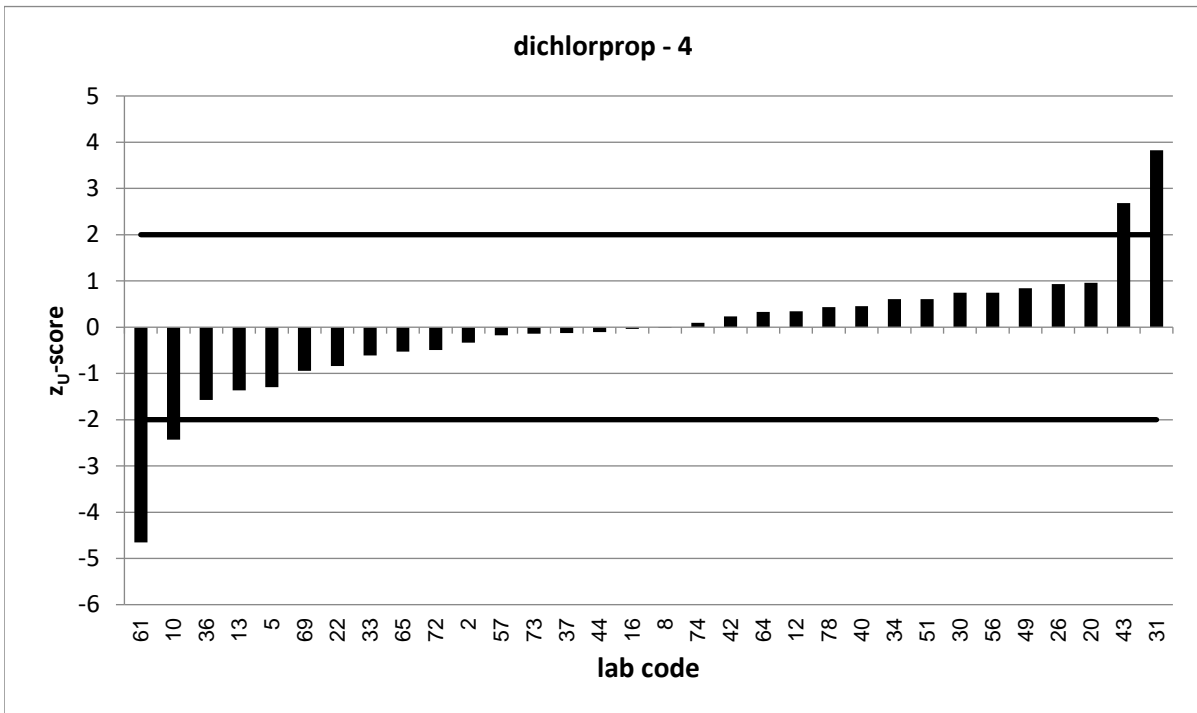
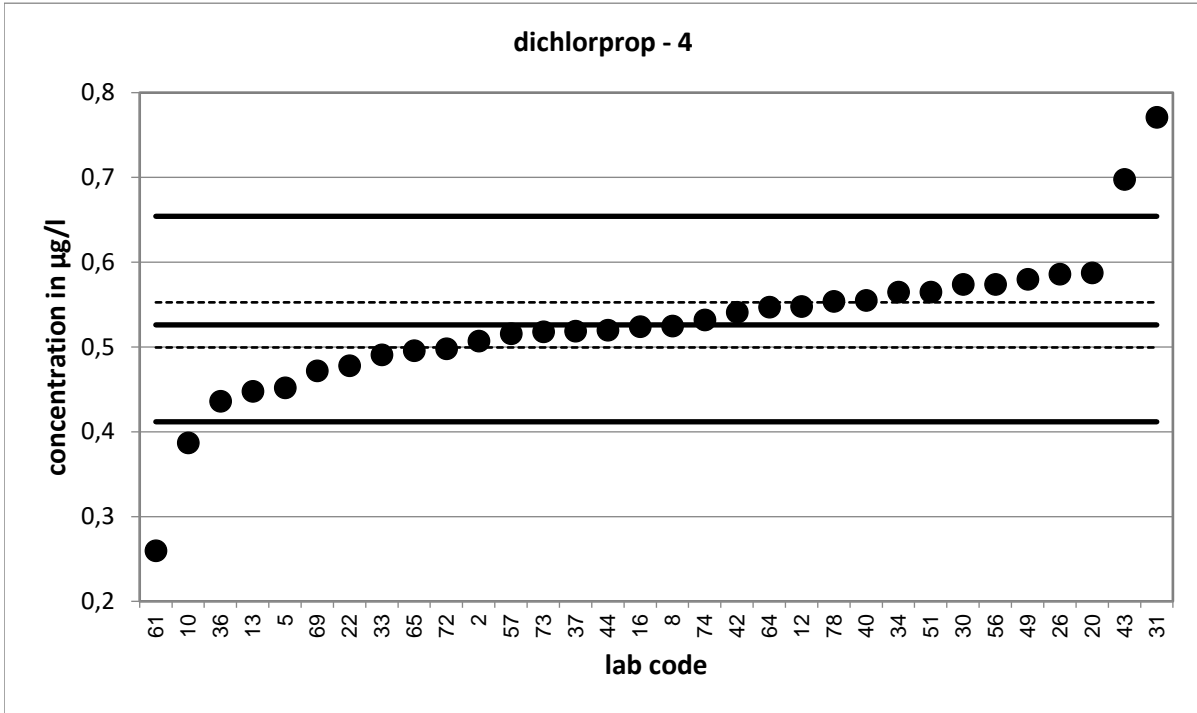


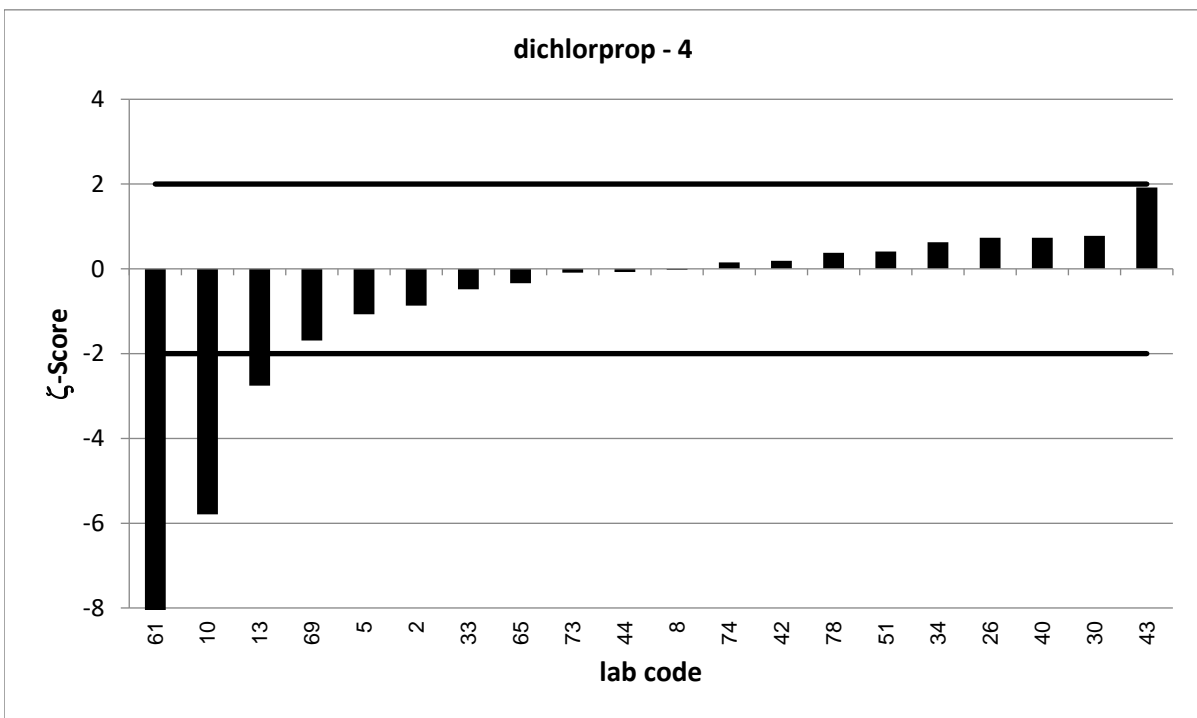
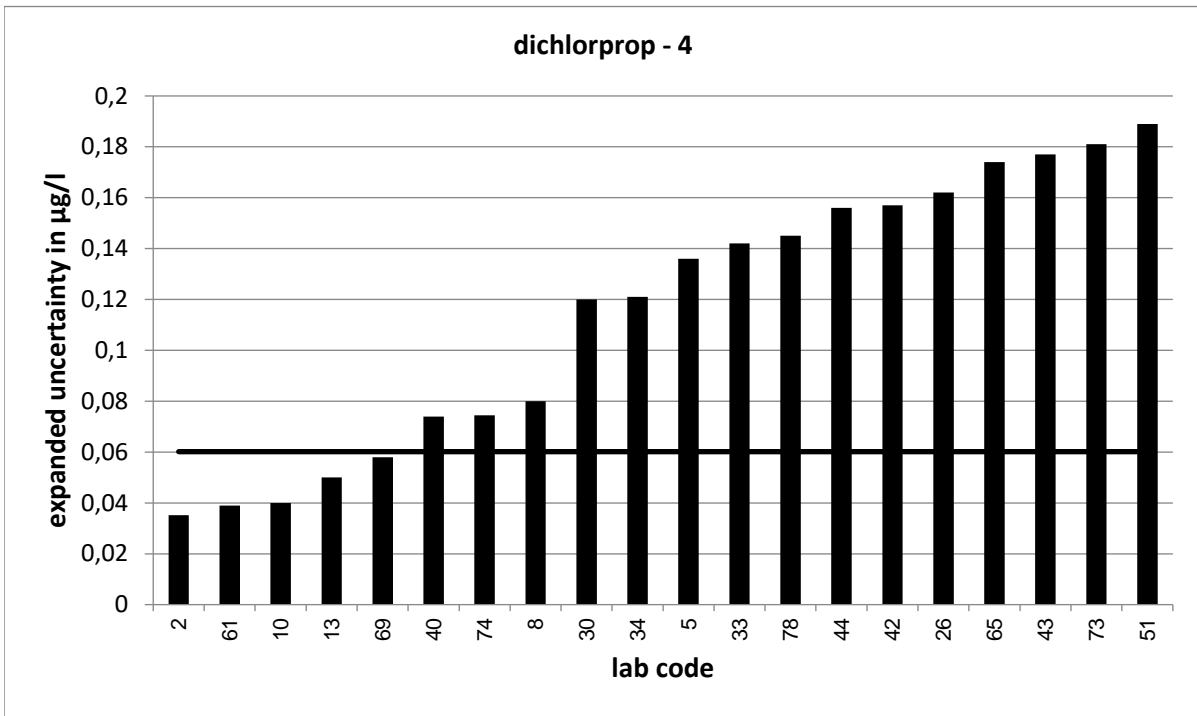


PT 9/24 - TW O4		dichlorprop - 4			
assigned value [$\mu\text{g/l}$]*		0,5261 \pm 0,0266			
upper tolerance limit [$\mu\text{g/l}$]		0,6542			
lower tolerance limit [$\mu\text{g/l}$]		0,4118			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
2	0,507	0,035	-0,9	-0,3	s
5	0,452	0,136	-1,1	-1,3	s
8	0,525	0,08	0,0	0,0	s
10	0,387	0,04	-5,8	-2,4	q
12	0,548			0,3	s
13	0,448	0,05	-2,8	-1,4	s
16	0,524			0,0	s
20	0,58755			1,0	s
22	0,478			-0,8	s
26	0,586	0,162	0,7	0,9	s
30	0,574	0,12	0,8	0,7	s
31	0,771			3,8	u
33	0,491	0,142	-0,5	-0,6	s
34	0,565	0,121	0,6	0,6	s
36	0,436			-1,6	s
37	0,519			-0,1	s
40	0,555	0,074	0,7	0,5	s
42	0,541	0,157	0,2	0,2	s
43	0,698	0,177	1,9	2,7	q
44	0,52	0,156	-0,1	-0,1	s
49	0,58			0,8	s
51	0,565	0,189	0,4	0,6	s
56	0,574			0,7	s
57	0,5159			-0,2	s
61	0,26	0,039	-11,3	-4,7	u
64	0,547			0,3	s
65	0,496	0,174	-0,3	-0,5	s
69	0,472	0,058	-1,7	-0,9	s
72	0,498			-0,5	s
73	0,518	0,181	-0,1	-0,1	s
74	0,532	0,075	0,2	0,1	s
78	0,554	0,145	0,4	0,4	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



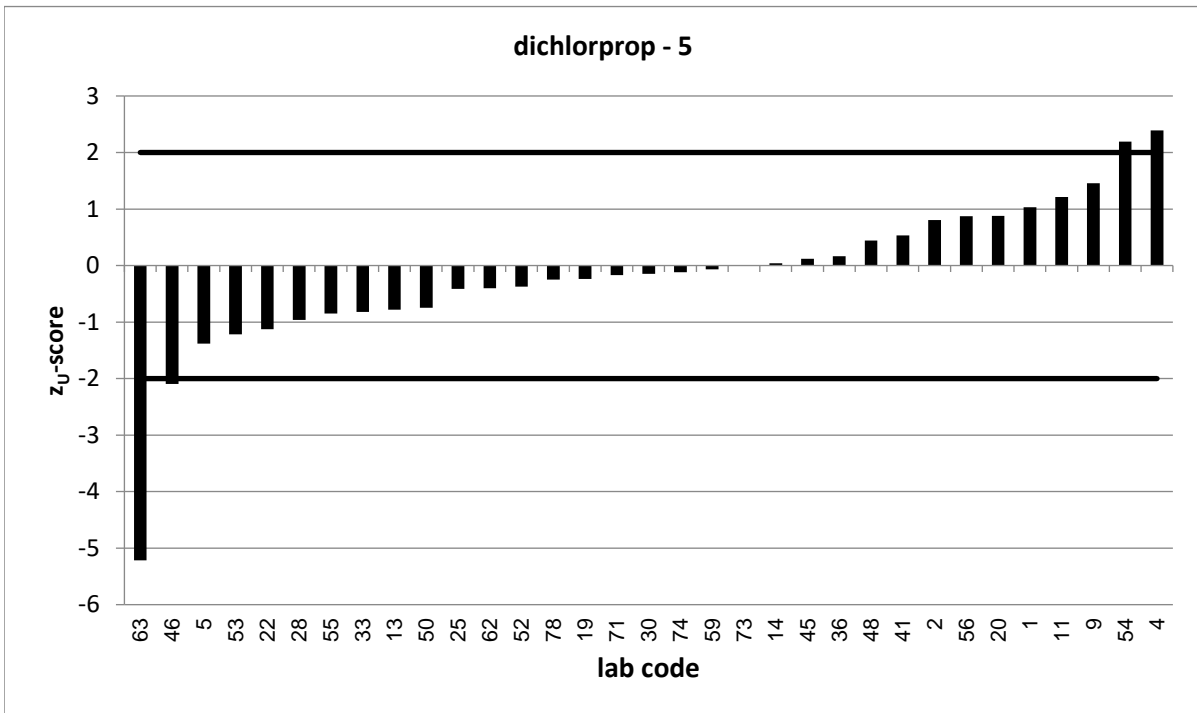
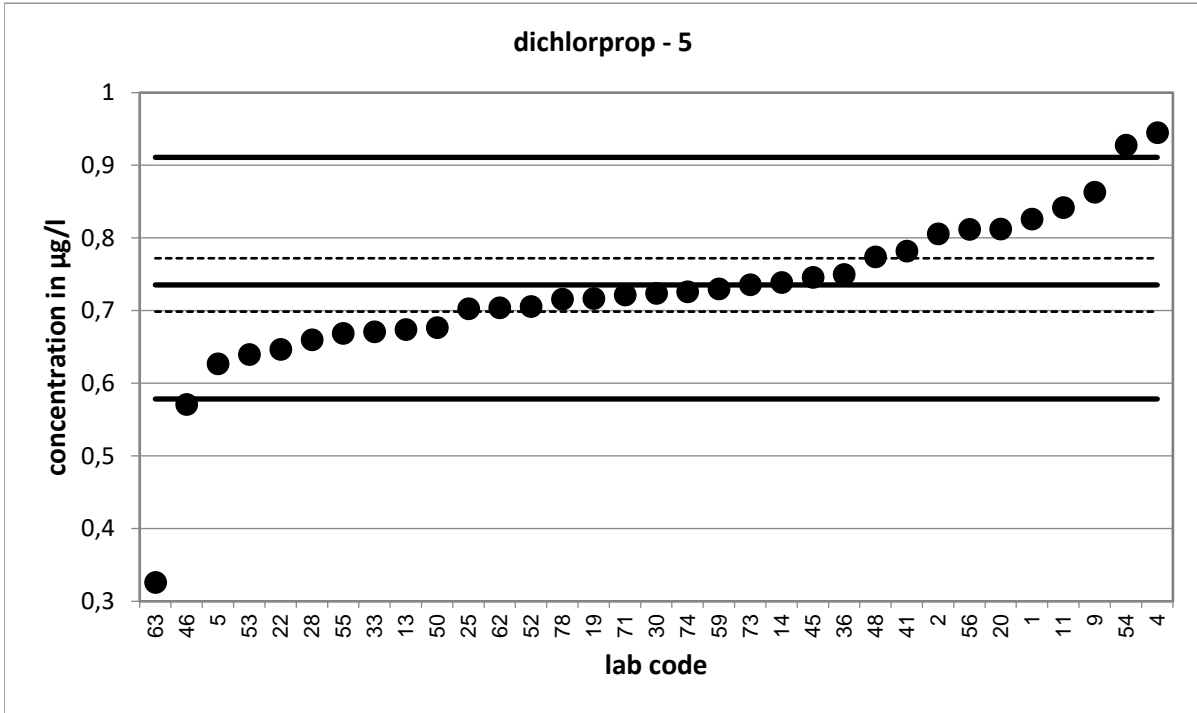


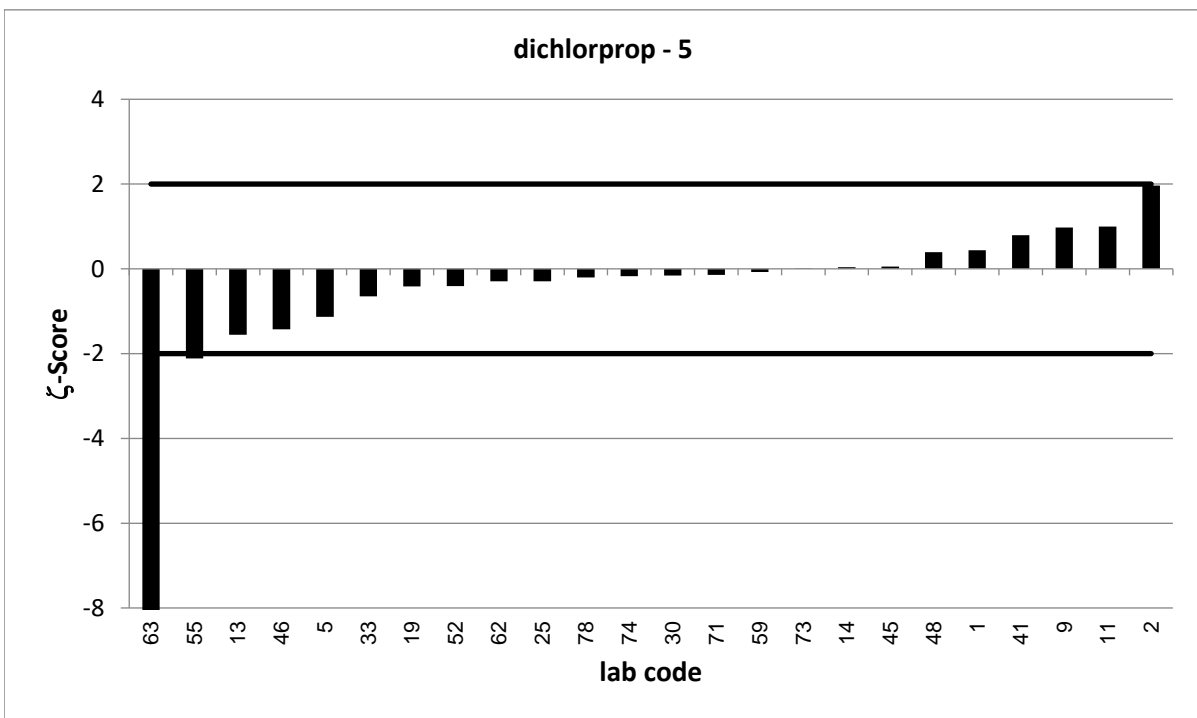
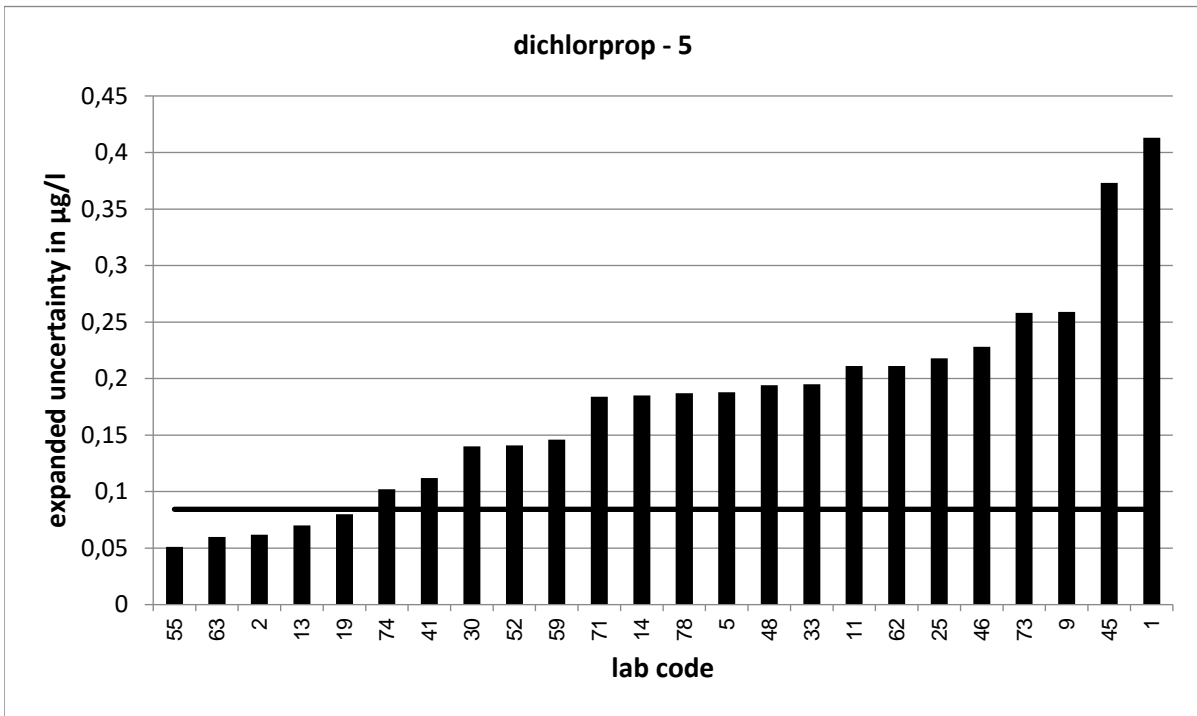
Strongly deviating values are not correctly shown in the diagram.

PT 9/24 - TW O4		dichlorprop - 5			
assigned value [$\mu\text{g/l}$]*		0,7354 \pm 0,0367			
upper tolerance limit [$\mu\text{g/l}$]		0,9109			
lower tolerance limit [$\mu\text{g/l}$]		0,5785			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
1	0,826	0,413	0,4	1,0	s
2	0,806	0,062	2,0	0,8	s
4	0,945			2,4	q
5	0,627	0,188	-1,1	-1,4	s
9	0,863	0,259	1,0	1,5	s
11	0,842	0,211	1,0	1,2	s
13	0,674	0,07	-1,6	-0,8	s
14	0,739	0,185	0,0	0,0	s
19	0,717	0,08	-0,4	-0,2	s
20	0,81241			0,9	s
22	0,647			-1,1	s
25	0,703	0,218	-0,3	-0,4	s
28	0,66			-1,0	s
30	0,724	0,14	-0,2	-0,1	s
33	0,671	0,195	-0,6	-0,8	s
36	0,75			0,2	s
41	0,782	0,112	0,8	0,5	s
45	0,746	0,373	0,1	0,1	s
46	0,571	0,228	-1,4	-2,1	q
48	0,774	0,194	0,4	0,4	s
50	0,677			-0,7	s
52	0,706	0,141	-0,4	-0,4	s
53	0,64			-1,2	s
54	0,928			2,2	q
55	0,669	0,051	-2,1	-0,8	s
56	0,812			0,9	s
59	0,73	0,146	-0,1	-0,1	s
62	0,704	0,211	-0,3	-0,4	s
63	0,326	0,06	-11,6	-5,2	u
71	0,722	0,184	-0,1	-0,2	s
73	0,736	0,258	0,0	0,0	s
74	0,726	0,102	-0,2	-0,1	s
78	0,716	0,187	-0,2	-0,2	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



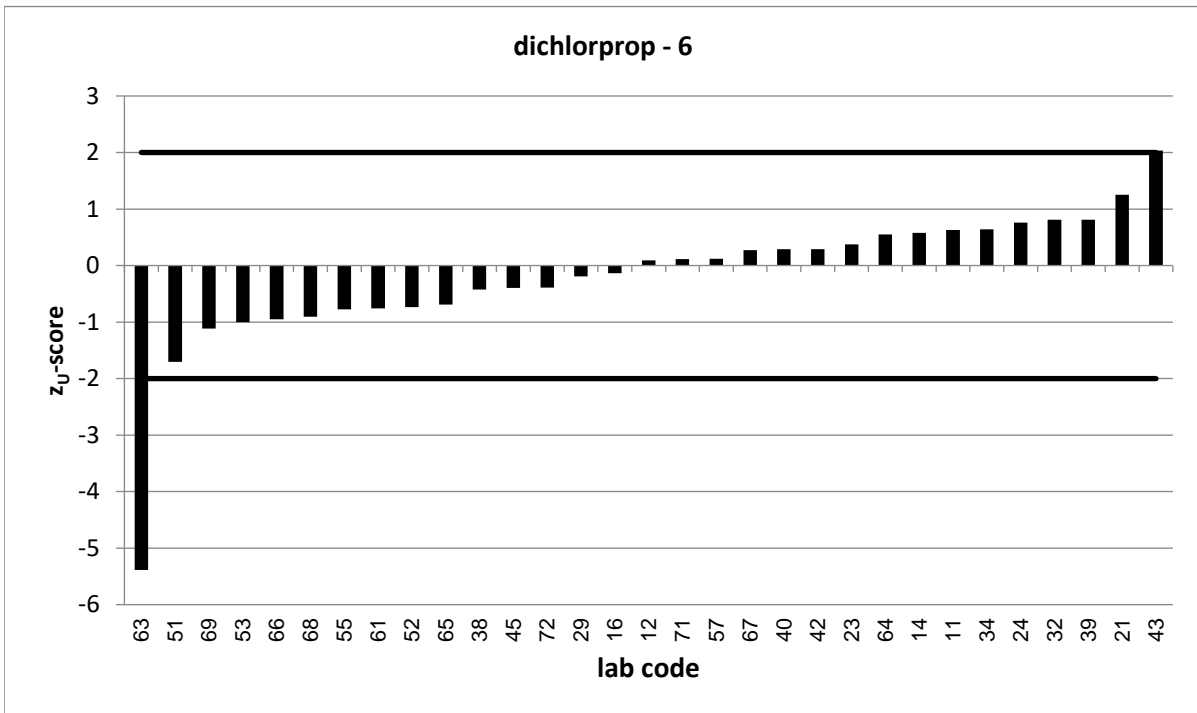
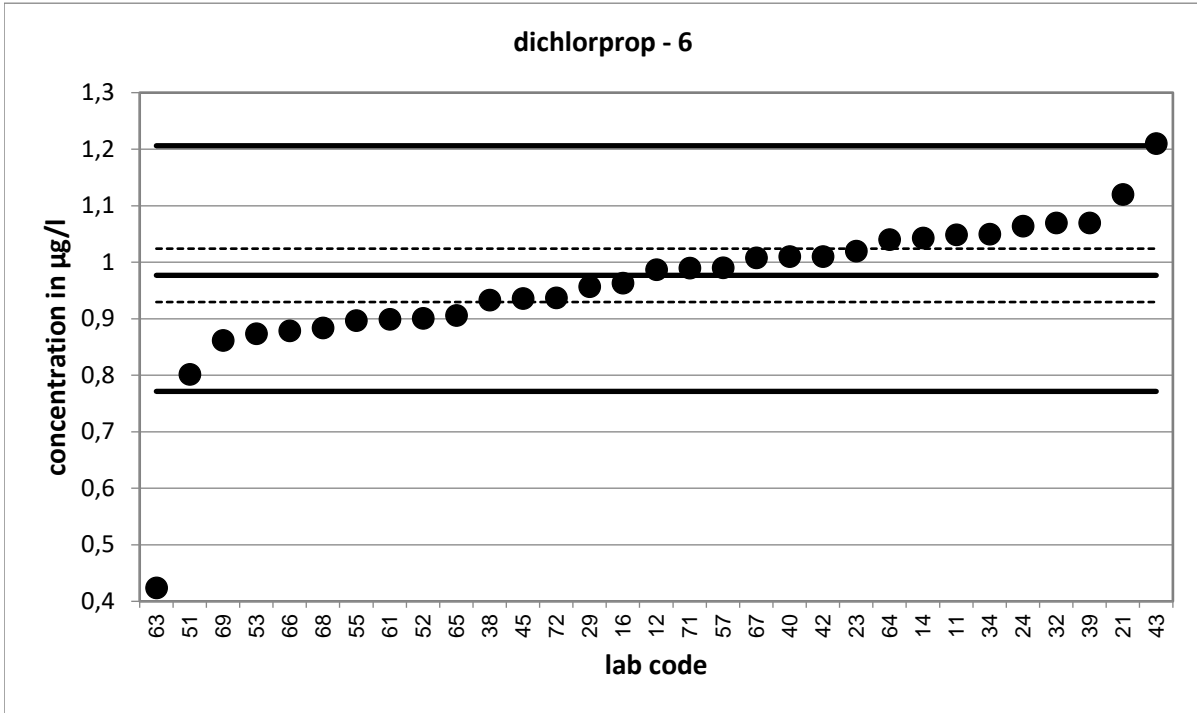


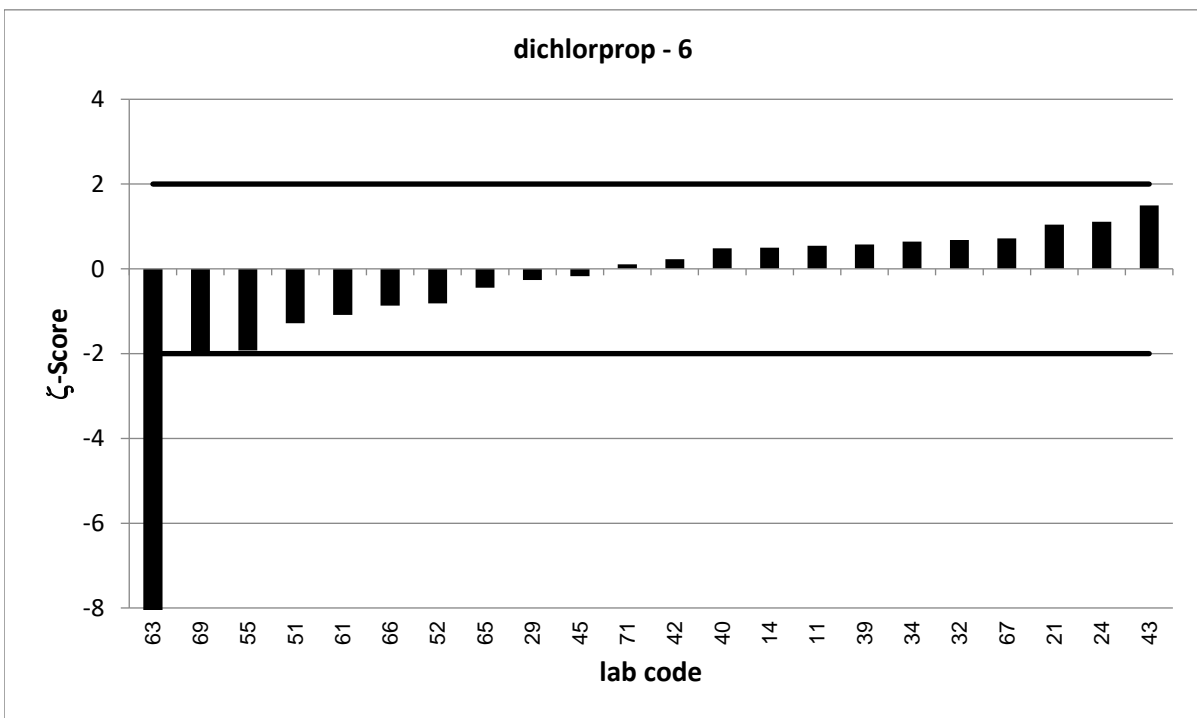
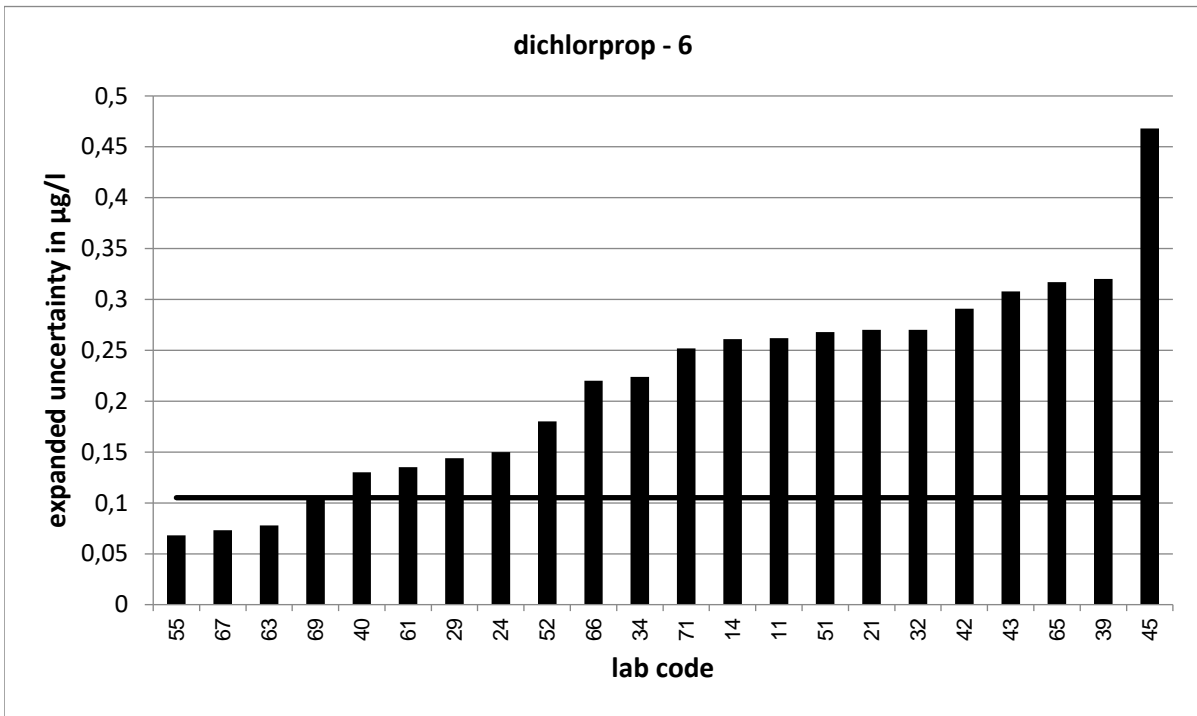
Strongly deviating values are not correctly shown in the diagram.

PT 9/24 - TW O4		dichlorprop - 6			
assigned value [$\mu\text{g/l}$]*		0,9768 \pm 0,0472			
upper tolerance limit [$\mu\text{g/l}$]		1,206			
lower tolerance limit [$\mu\text{g/l}$]		0,7715			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
11	1,049	0,262	0,5	0,6	s
12	0,987			0,1	s
14	1,043	0,261	0,5	0,6	s
16	0,963			-0,1	s
21	1,12	0,27	1,0	1,2	s
23	1,02			0,4	s
24	1,064	0,15	1,1	0,8	s
29	0,957	0,144	-0,3	-0,2	s
32	1,07	0,27	0,7	0,8	s
34	1,05	0,224	0,6	0,6	s
38	0,933			-0,4	s
39	1,07	0,32	0,6	0,8	s
40	1,01	0,13	0,5	0,3	s
42	1,01	0,291	0,2	0,3	s
43	1,21	0,308	1,5	2,0	s
45	0,936	0,468	-0,2	-0,4	s
51	0,802	0,268	-1,3	-1,7	s
52	0,901	0,18	-0,8	-0,7	s
53	0,874			-1,0	s
55	0,897	0,068	-1,9	-0,8	s
57	0,9905			0,1	s
61	0,899	0,135	-1,1	-0,8	s
63	0,424	0,078	-12,1	-5,4	u
64	1,04			0,6	s
65	0,906	0,317	-0,4	-0,7	s
66	0,879	0,22	-0,9	-1,0	s
67	1,008	0,073	0,7	0,3	s
68	0,884			-0,9	s
69	0,862	0,105	-2,0	-1,1	s
71	0,99	0,252	0,1	0,1	s
72	0,937			-0,4	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



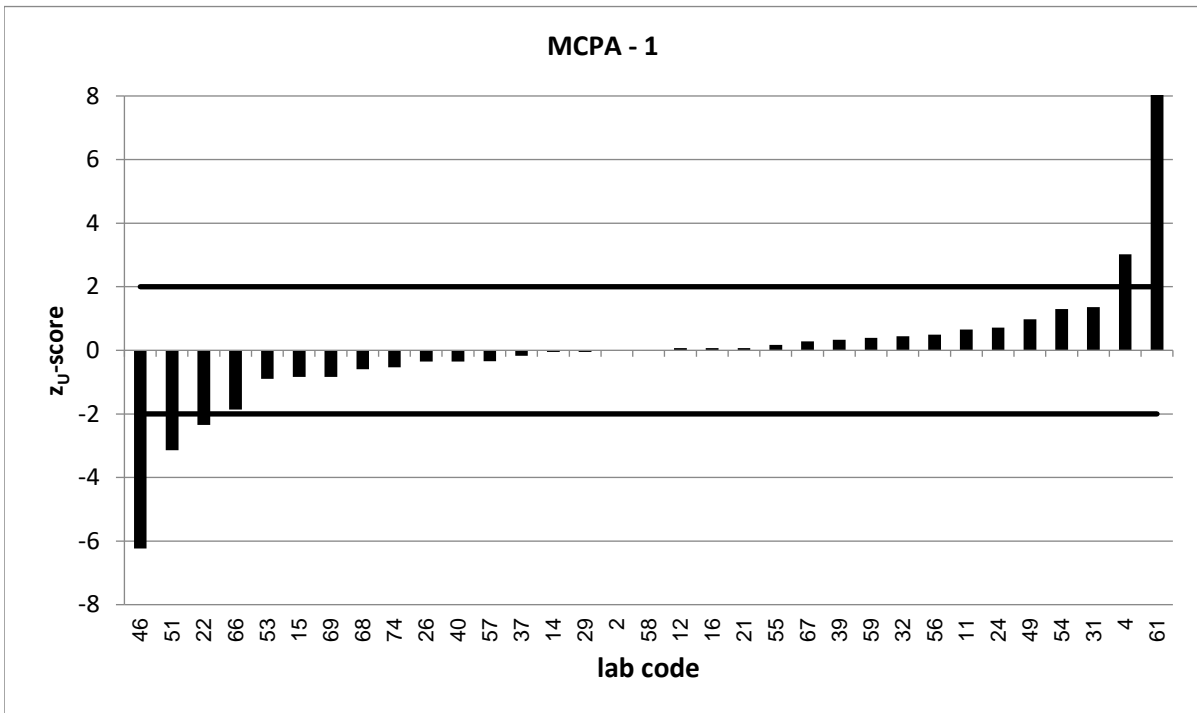
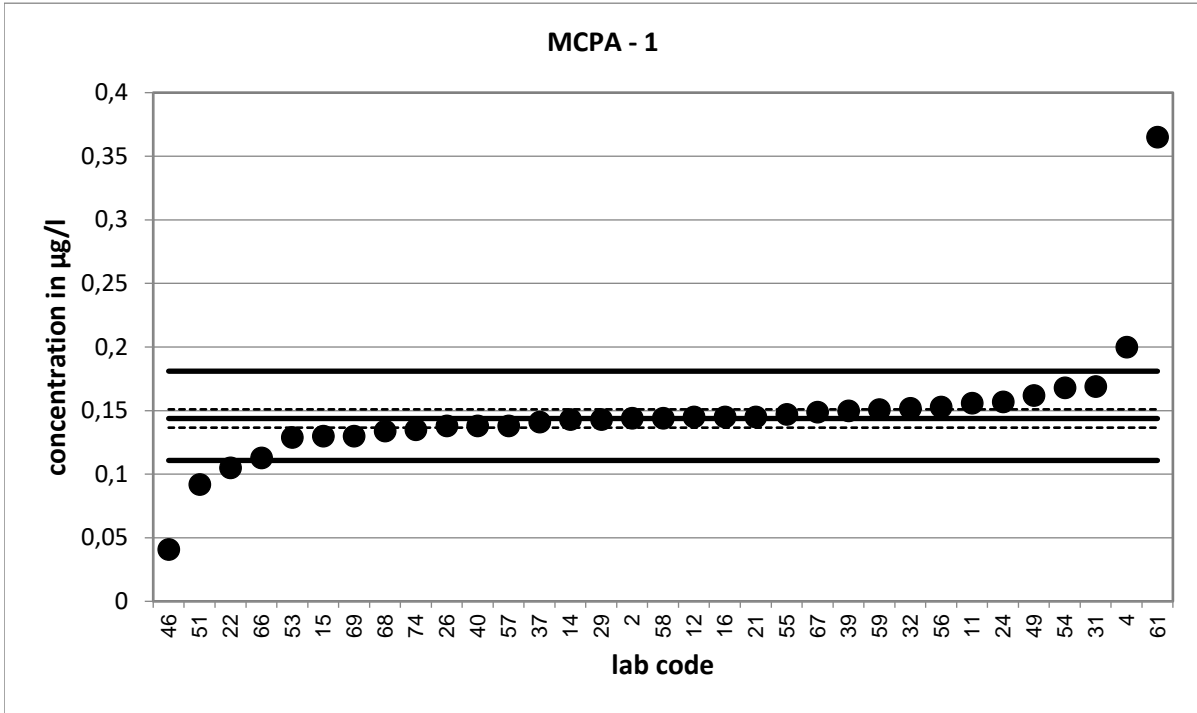


Strongly deviating values are not correctly shown in the diagram.

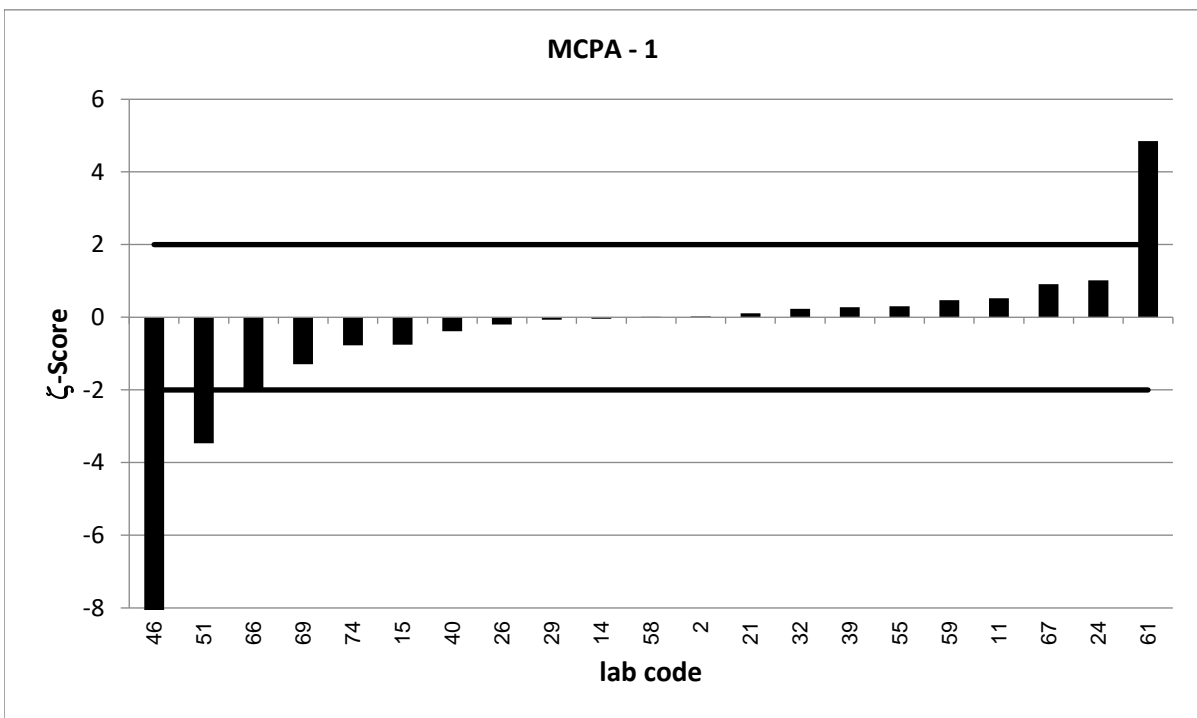
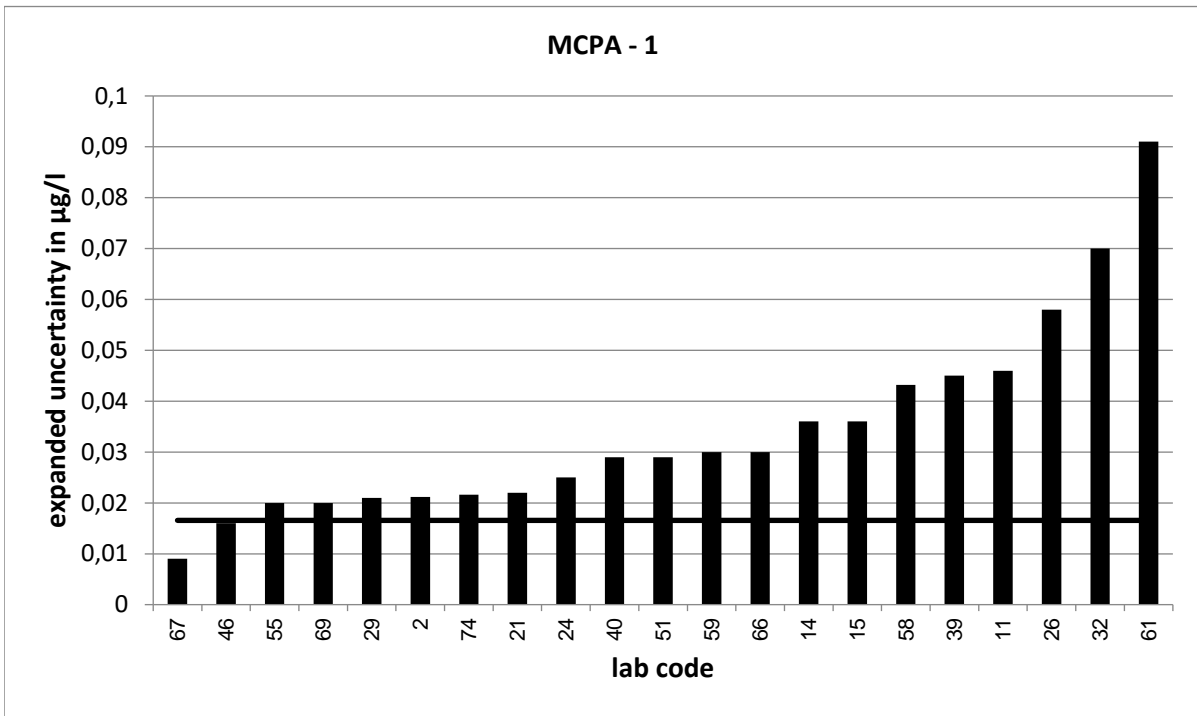
PT 9/24 - TW O4		MCPA - 1			
assigned value [$\mu\text{g/l}$]*		0,1438 \pm 0,0072			
upper tolerance limit [$\mu\text{g/l}$]		0,181			
lower tolerance limit [$\mu\text{g/l}$]		0,1108			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
2	0,144	0,021	0,0	0,0	s
4	0,2			3,0	u
11	0,156	0,046	0,5	0,7	s
12	0,145			0,1	s
14	0,143	0,036	0,0	0,0	s
15	0,13	0,036	-0,7	-0,8	s
16	0,145			0,1	s
21	0,145	0,022	0,1	0,1	s
22	0,105			-2,4	q
24	0,157	0,025	1,0	0,7	s
26	0,138	0,058	-0,2	-0,3	s
29	0,143	0,021	-0,1	0,0	s
31	0,169			1,4	s
32	0,152	0,07	0,2	0,4	s
37	0,141			-0,2	s
39	0,15	0,045	0,3	0,3	s
40	0,138	0,029	-0,4	-0,3	s
46	0,041	0,016	-11,7	-6,2	u
49	0,162			1,0	s
51	0,092	0,029	-3,5	-3,1	u
53	0,129			-0,9	s
54	0,168			1,3	s
55	0,147	0,02	0,3	0,2	s
56	0,153			0,5	s
57	0,1381			-0,3	s
58	0,144	0,043	0,0	0,0	s
59	0,151	0,03	0,5	0,4	s
61	0,365	0,091	4,8	11,9	u
66	0,113	0,03	-2,0	-1,9	s
67	0,149	0,009	0,9	0,3	s
68	0,134			-0,6	s
69	0,13	0,02	-1,3	-0,8	s
74	0,135	0,022	-0,8	-0,5	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



Strongly deviating values are not correctly shown in the diagram.

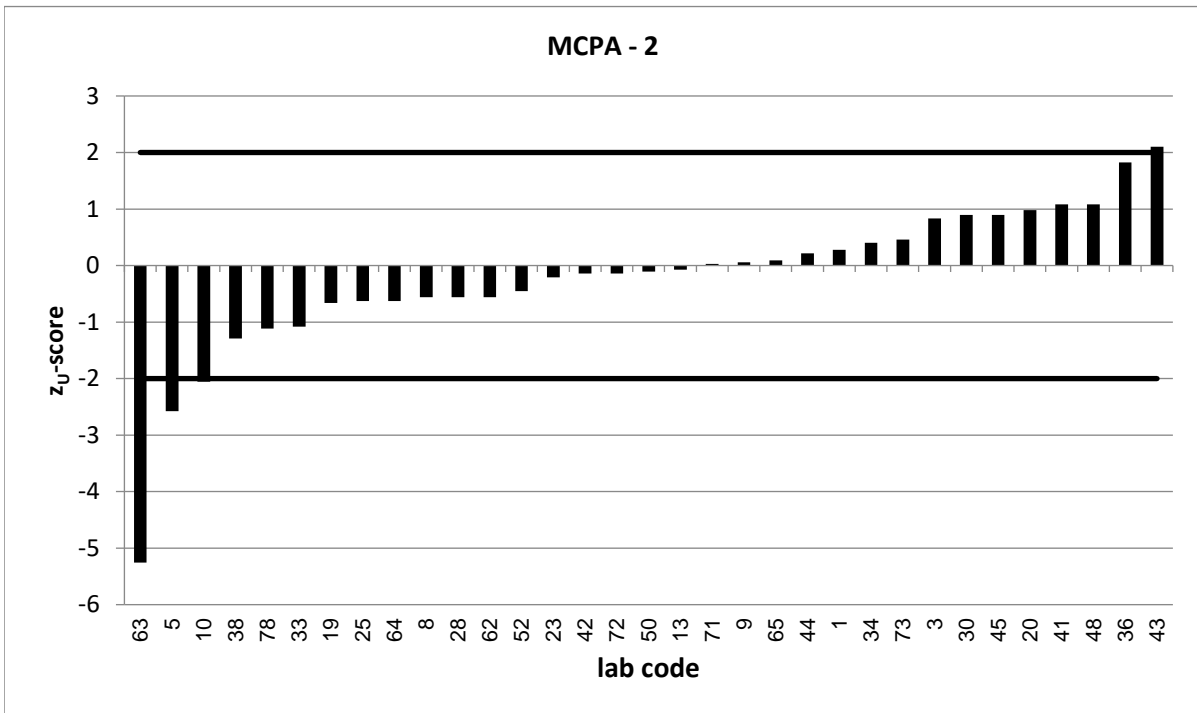
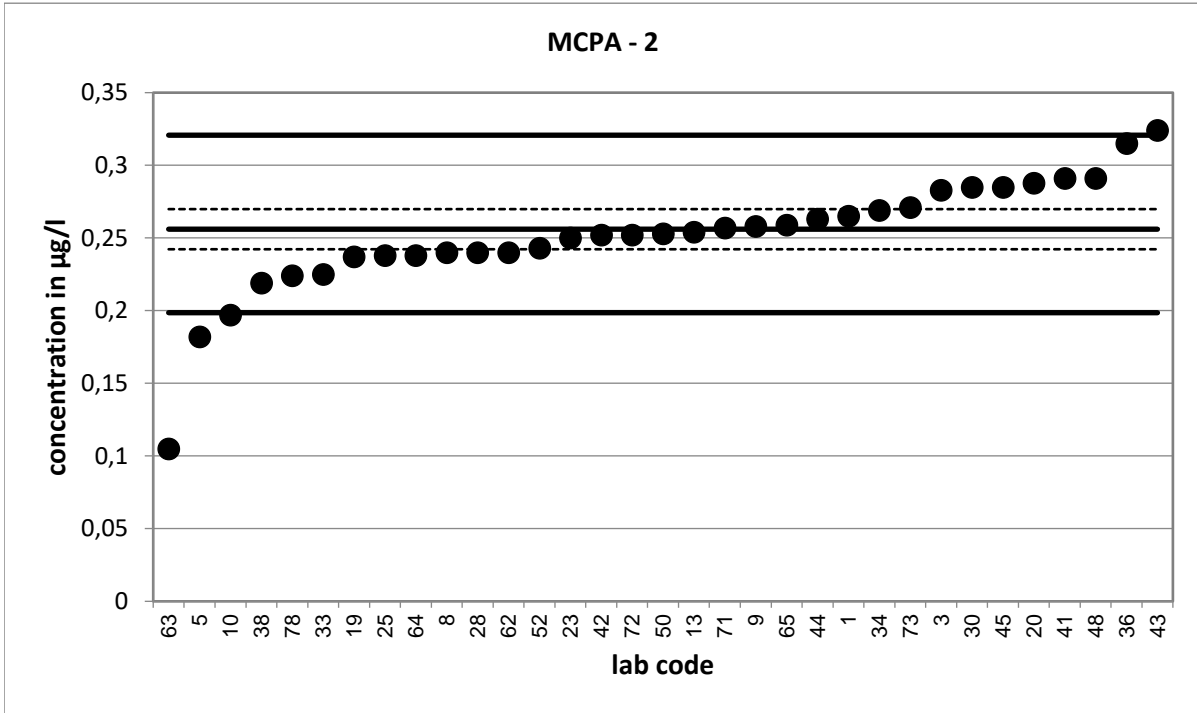


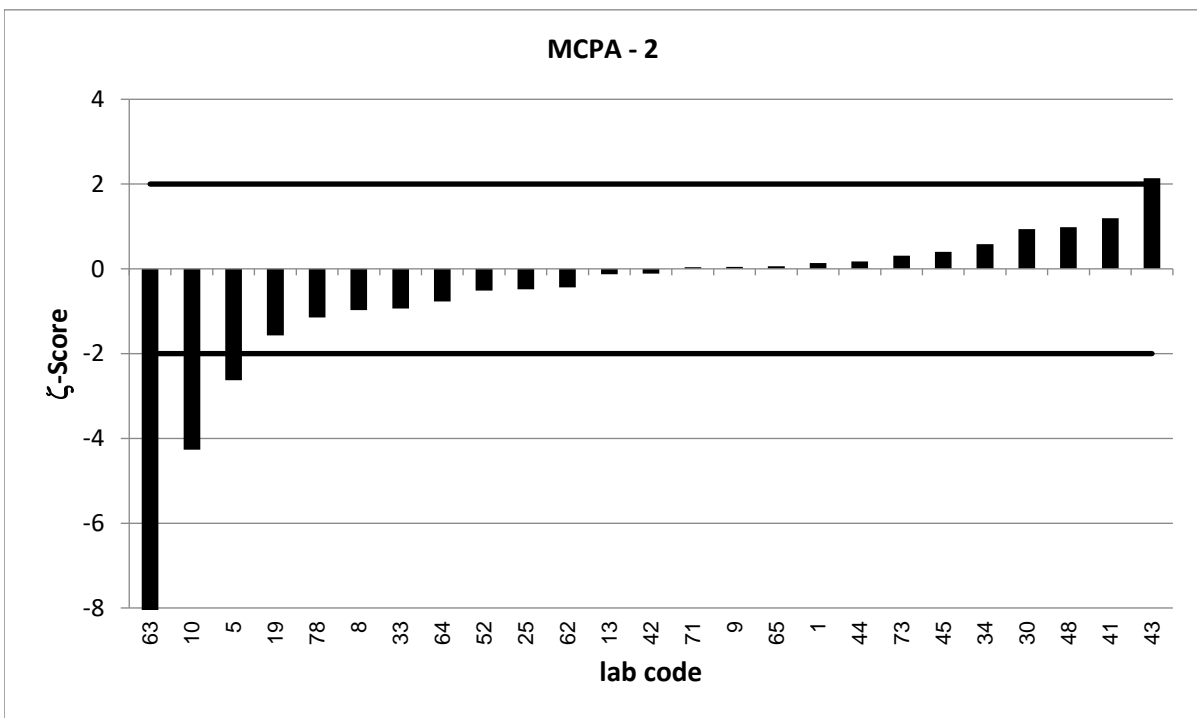
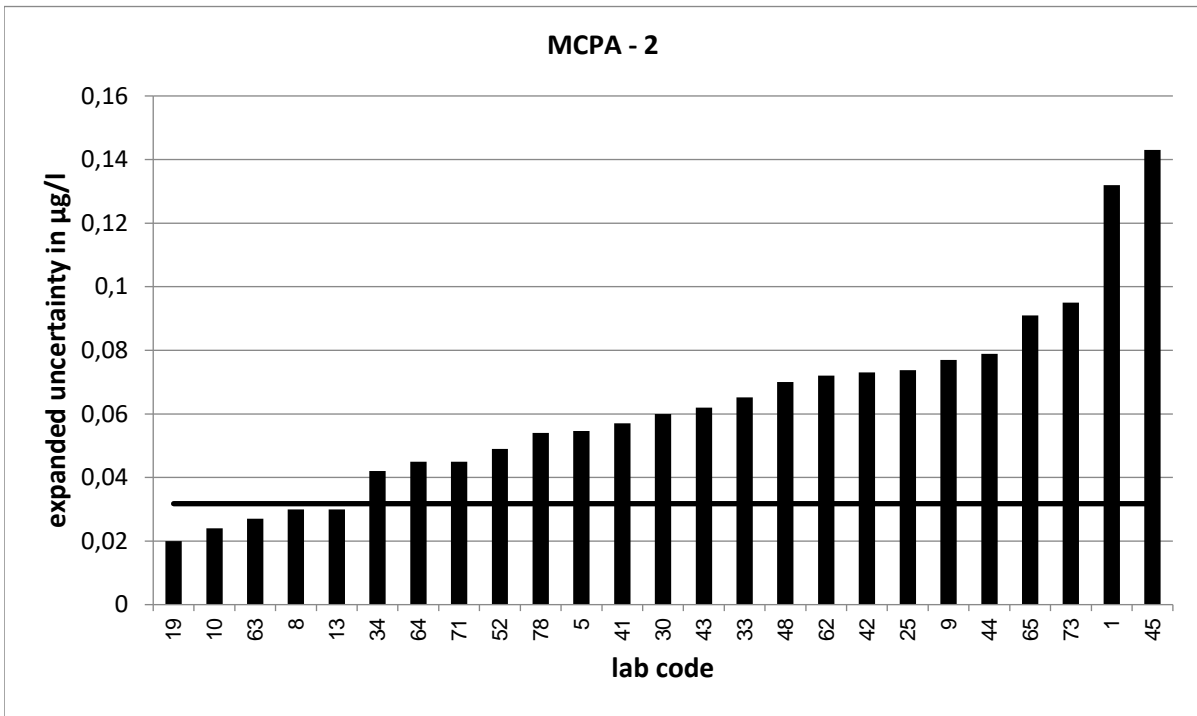
Strongly deviating values are not correctly shown in the diagram.

PT 9/24 - TW O4		MCPA - 2			
assigned value [$\mu\text{g/l}$]*		0,2561 \pm 0,0138			
upper tolerance limit [$\mu\text{g/l}$]		0,3207			
lower tolerance limit [$\mu\text{g/l}$]		0,1986			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
1	0,265	0,132	0,1	0,3	s
3	0,283			0,8	s
5	0,182	0,055	-2,6	-2,6	q
8	0,24	0,03	-1,0	-0,6	s
9	0,258	0,077	0,0	0,1	s
10	0,197	0,024	-4,3	-2,1	q
13	0,254	0,03	-0,1	-0,1	s
19	0,237	0,02	-1,6	-0,7	s
20	0,28774			1,0	s
23	0,25			-0,2	s
25	0,238	0,074	-0,5	-0,6	s
28	0,24			-0,6	s
30	0,285	0,06	0,9	0,9	s
33	0,225	0,065	-0,9	-1,1	s
34	0,269	0,042	0,6	0,4	s
36	0,315			1,8	s
38	0,219			-1,3	s
41	0,291	0,057	1,2	1,1	s
42	0,252	0,073	-0,1	-0,1	s
43	0,324	0,062	2,1	2,1	q
44	0,263	0,079	0,2	0,2	s
45	0,285	0,143	0,4	0,9	s
48	0,291	0,07	1,0	1,1	s
50	0,253			-0,1	s
52	0,243	0,049	-0,5	-0,5	s
62	0,24	0,072	-0,4	-0,6	s
63	0,105	0,027	-10,0	-5,3	u
64	0,238	0,045	-0,8	-0,6	s
65	0,259	0,091	0,1	0,1	s
71	0,257	0,045	0,0	0,0	s
72	0,252			-0,1	s
73	0,271	0,095	0,3	0,5	s
78	0,224	0,054	-1,2	-1,1	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



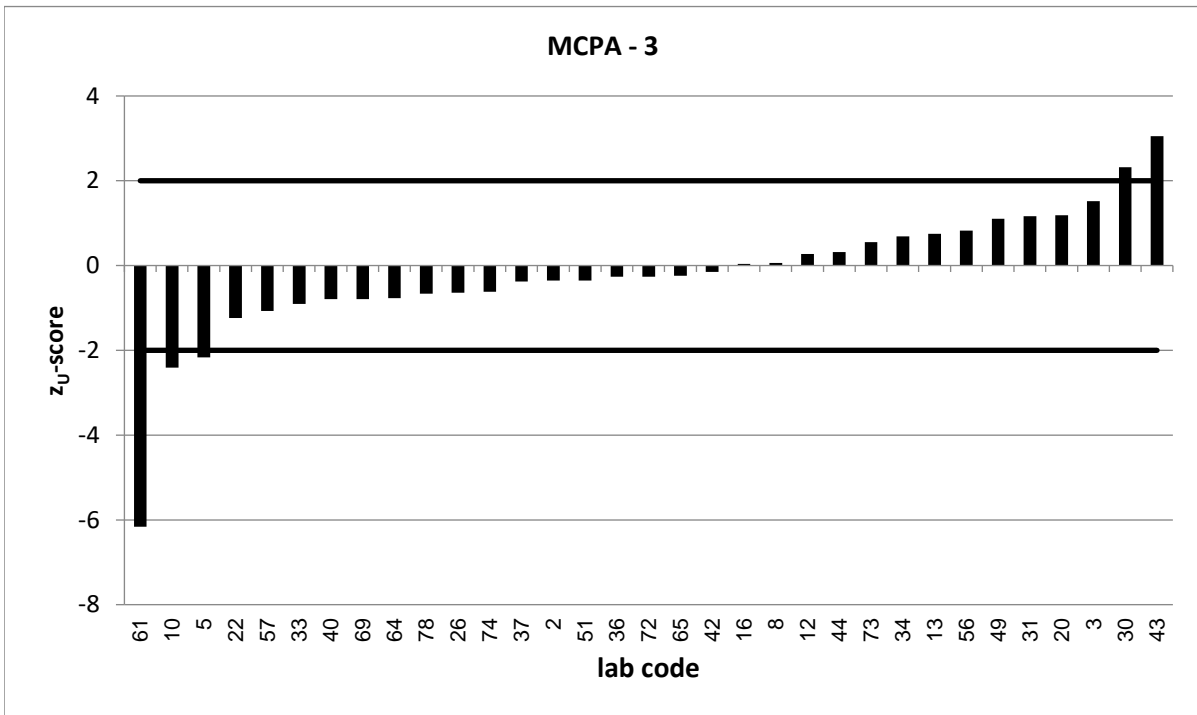
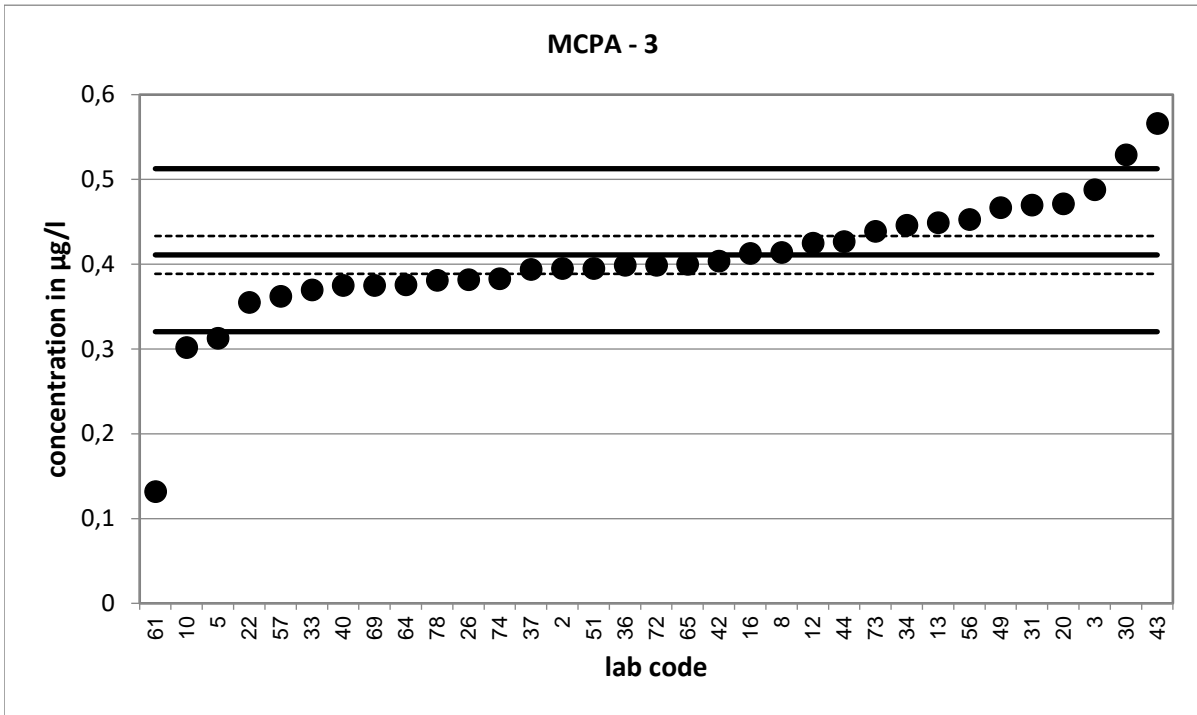


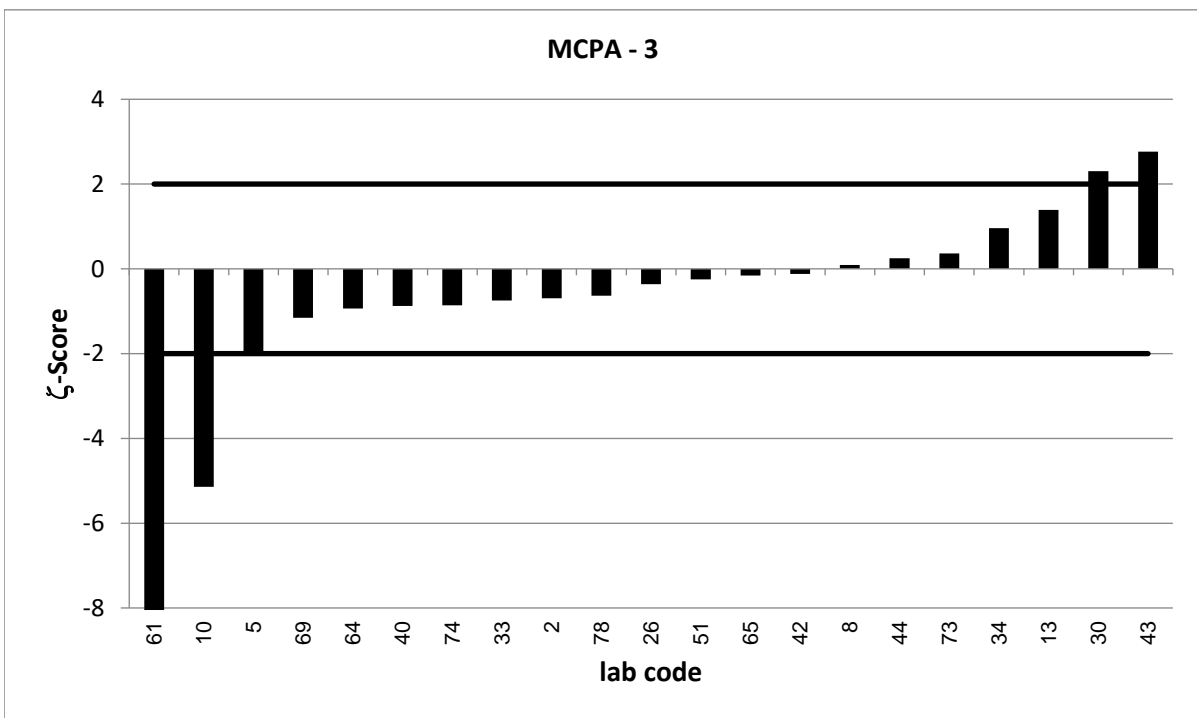
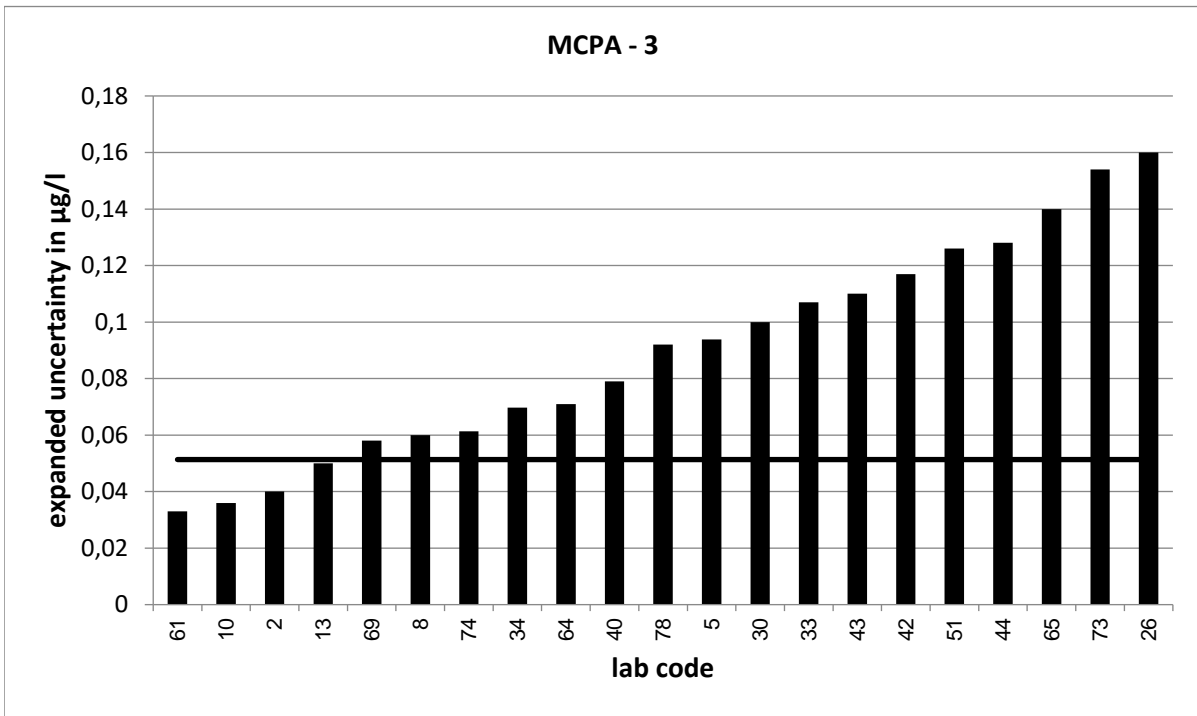
Strongly deviating values are not correctly shown in the diagram.

PT 9/24 - TW O4		MCPA - 3			
assigned value [$\mu\text{g/l}$]*		0,411 \pm 0,0223			
upper tolerance limit [$\mu\text{g/l}$]		0,5126			
lower tolerance limit [$\mu\text{g/l}$]		0,3204			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
2	0,395	0,04	-0,7	-0,4	s
3	0,488			1,5	s
5	0,313	0,094	-2,0	-2,2	q
8	0,414	0,06	0,1	0,1	s
10	0,302	0,036	-5,1	-2,4	q
12	0,425			0,3	s
13	0,449	0,05	1,4	0,7	s
16	0,413			0,0	s
20	0,4714			1,2	s
22	0,355			-1,2	s
26	0,382	0,16	-0,4	-0,6	s
30	0,529	0,1	2,3	2,3	q
31	0,47			1,2	s
33	0,37	0,107	-0,7	-0,9	s
34	0,446	0,07	1,0	0,7	s
36	0,399			-0,3	s
37	0,394			-0,4	s
40	0,375	0,079	-0,9	-0,8	s
42	0,404	0,117	-0,1	-0,2	s
43	0,566	0,11	2,8	3,0	u
44	0,427	0,128	0,2	0,3	s
49	0,467			1,1	s
51	0,395	0,126	-0,2	-0,4	s
56	0,453			0,8	s
57	0,3624			-1,1	s
61	0,132	0,033	-14,0	-6,2	u
64	0,376	0,071	-0,9	-0,8	s
65	0,4	0,14	-0,2	-0,2	s
69	0,375	0,058	-1,2	-0,8	s
72	0,399			-0,3	s
73	0,439	0,154	0,4	0,6	s
74	0,383	0,061	-0,9	-0,6	s
78	0,381	0,092	-0,6	-0,7	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



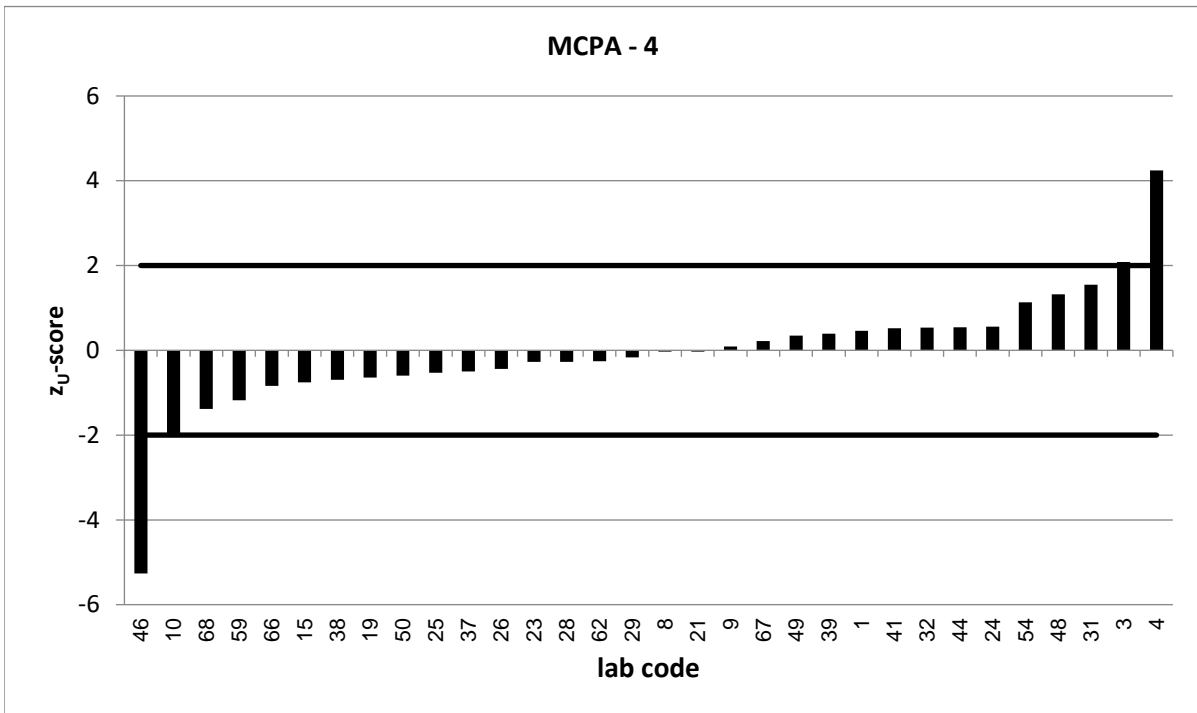
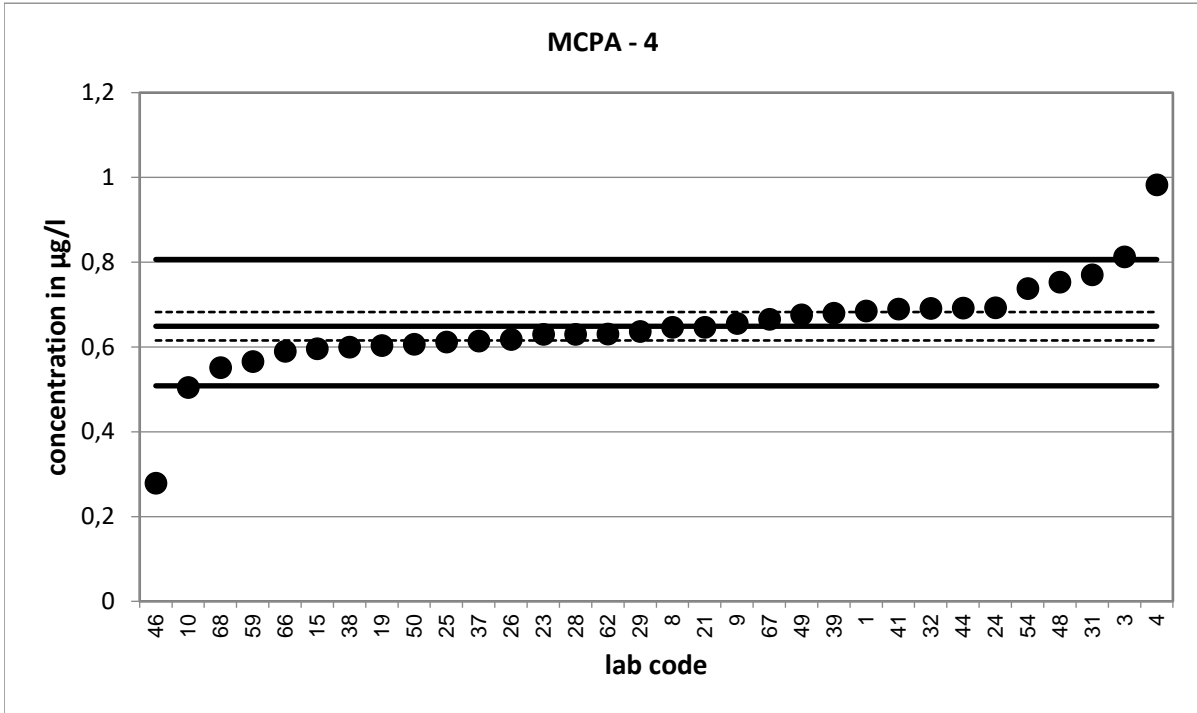


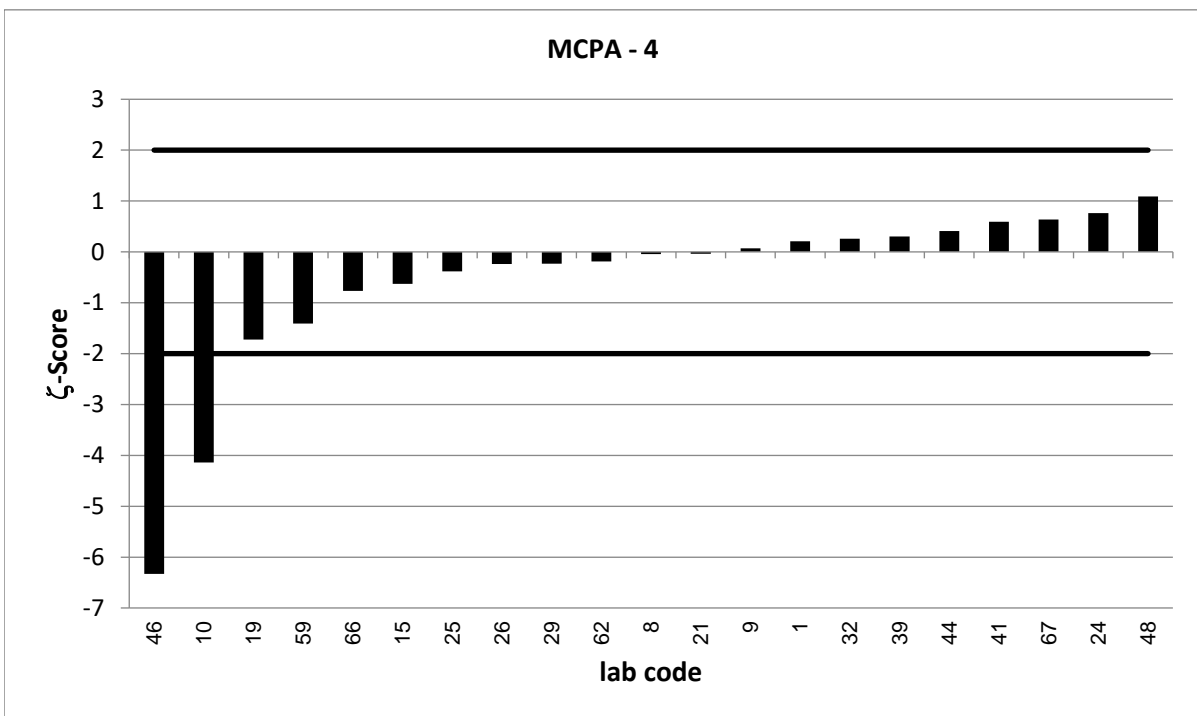
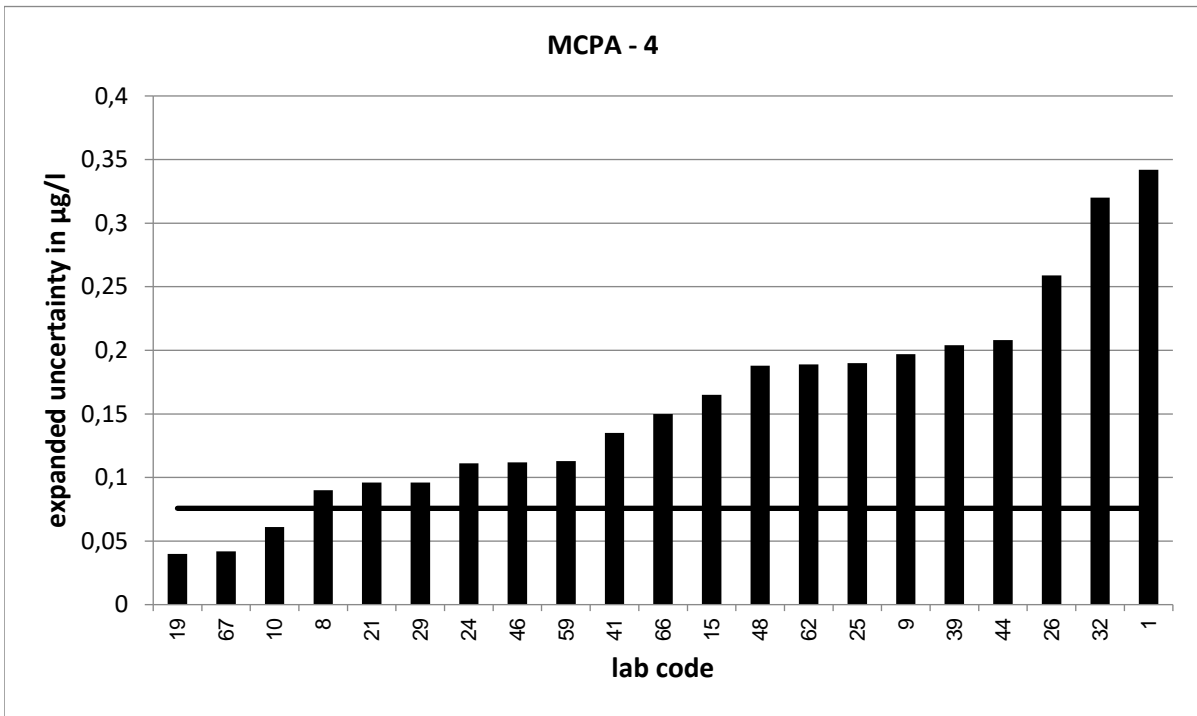
Strongly deviating values are not correctly shown in the diagram.

PT 9/24 - TW O4		MCPA - 4			
assigned value [$\mu\text{g/l}$]*		0,6489 \pm 0,0335			
upper tolerance limit [$\mu\text{g/l}$]		0,8064			
lower tolerance limit [$\mu\text{g/l}$]		0,5084			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
1	0,685	0,342	0,2	0,5	s
3	0,813			2,1	q
4	0,983			4,2	u
8	0,647	0,09	0,0	0,0	s
9	0,656	0,197	0,1	0,1	s
10	0,505	0,061	-4,1	-2,0	s
15	0,596	0,165	-0,6	-0,8	s
19	0,604	0,04	-1,7	-0,6	s
21	0,647	0,096	0,0	0,0	s
23	0,63			-0,3	s
24	0,693	0,111	0,8	0,6	s
25	0,612	0,19	-0,4	-0,5	s
26	0,618	0,259	-0,2	-0,4	s
28	0,63			-0,3	s
29	0,637	0,096	-0,2	-0,2	s
31	0,771			1,6	s
32	0,691	0,32	0,3	0,5	s
37	0,614			-0,5	s
38	0,6			-0,7	s
39	0,68	0,204	0,3	0,4	s
41	0,69	0,135	0,6	0,5	s
44	0,692	0,208	0,4	0,5	s
46	0,279	0,112	-6,3	-5,3	u
48	0,753	0,188	1,1	1,3	s
49	0,676			0,3	s
50	0,607			-0,6	s
54	0,738			1,1	s
59	0,566	0,113	-1,4	-1,2	s
62	0,631	0,189	-0,2	-0,3	s
66	0,59	0,15	-0,8	-0,8	s
67	0,666	0,042	0,6	0,2	s
68	0,552			-1,4	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory

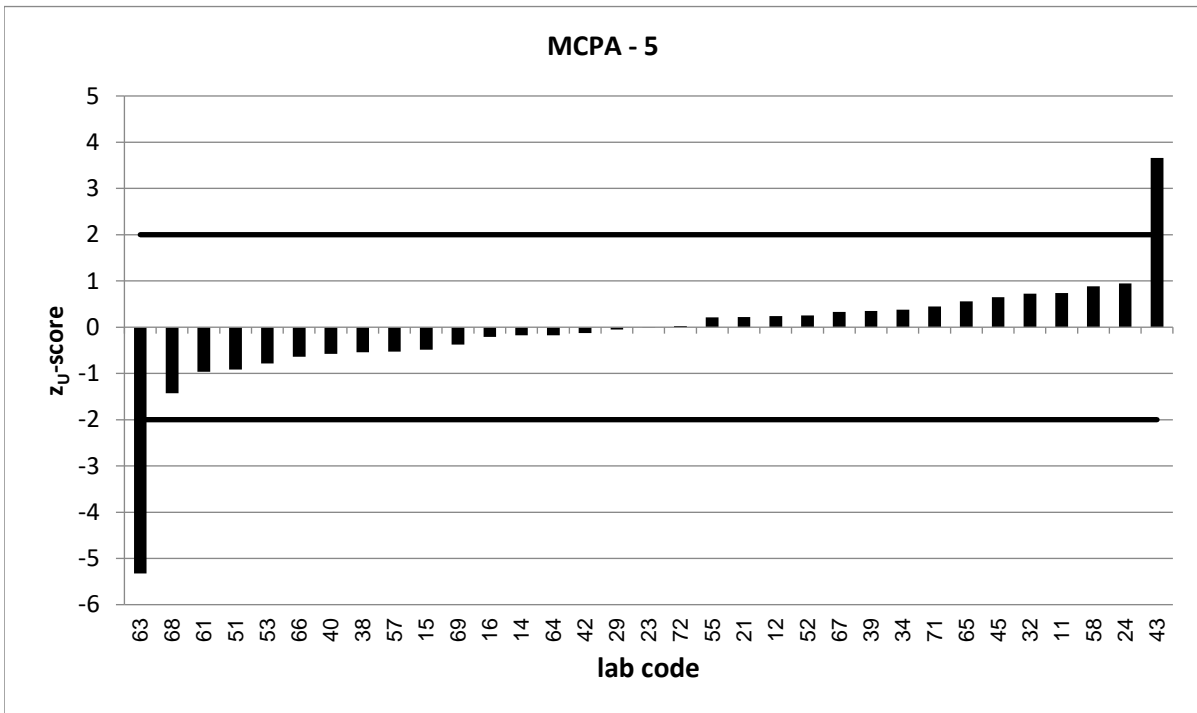
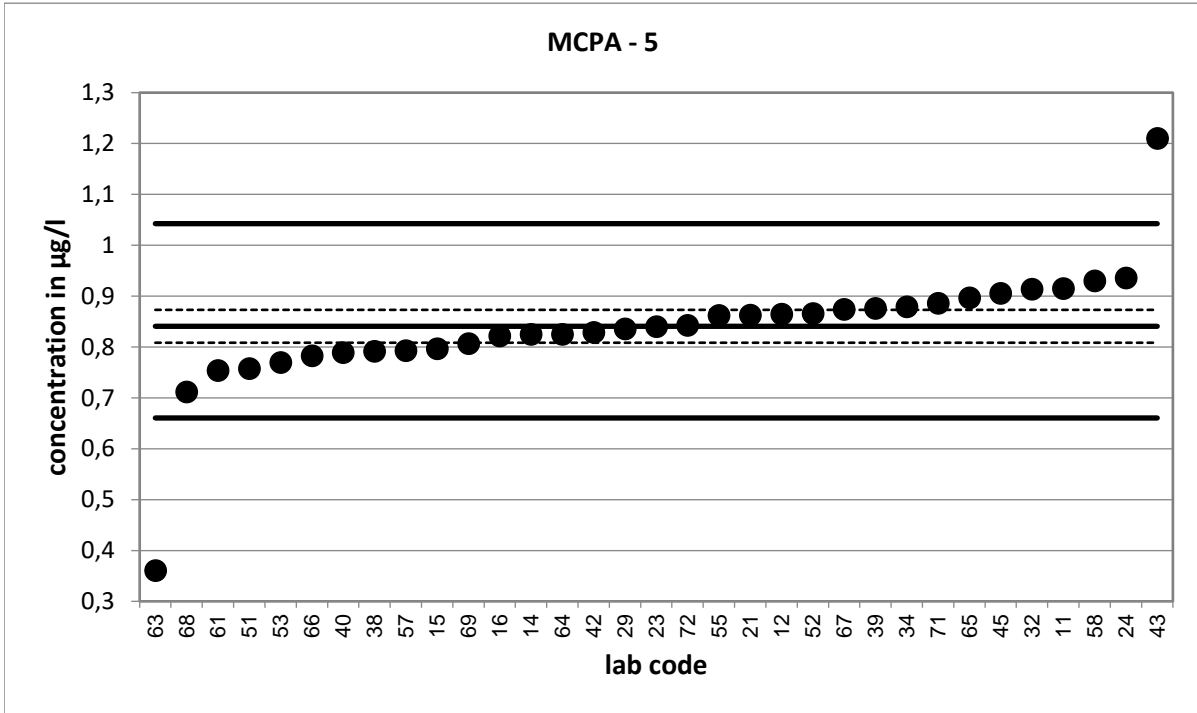


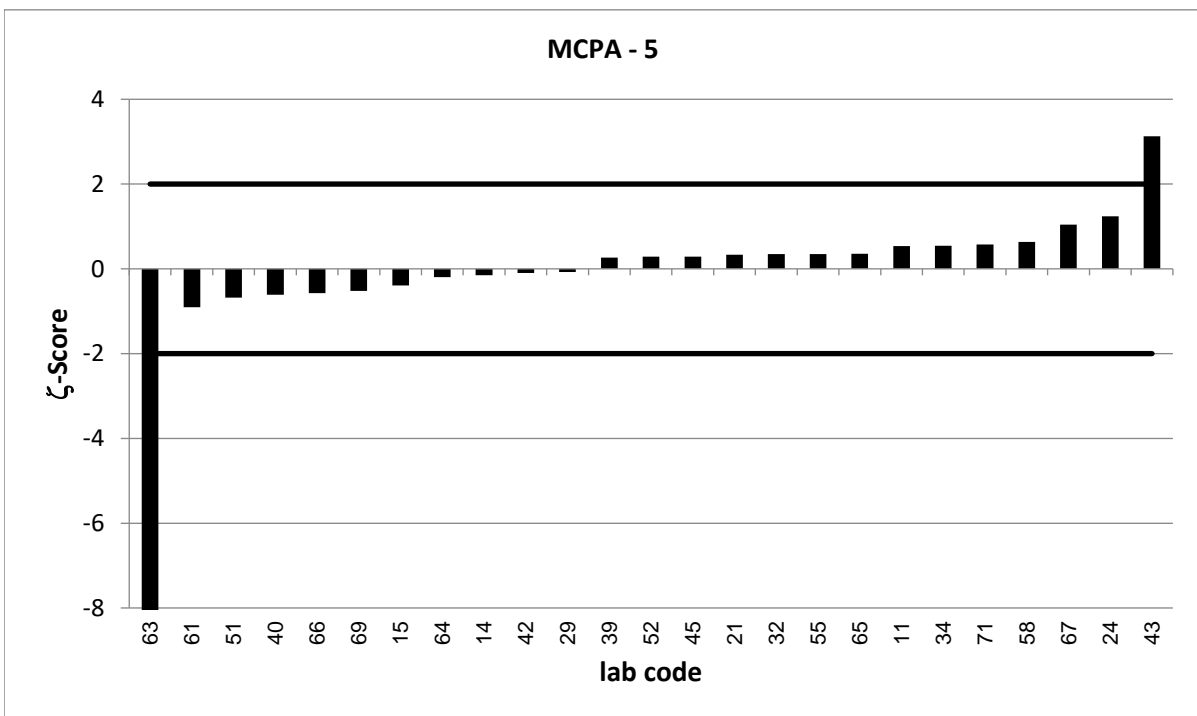
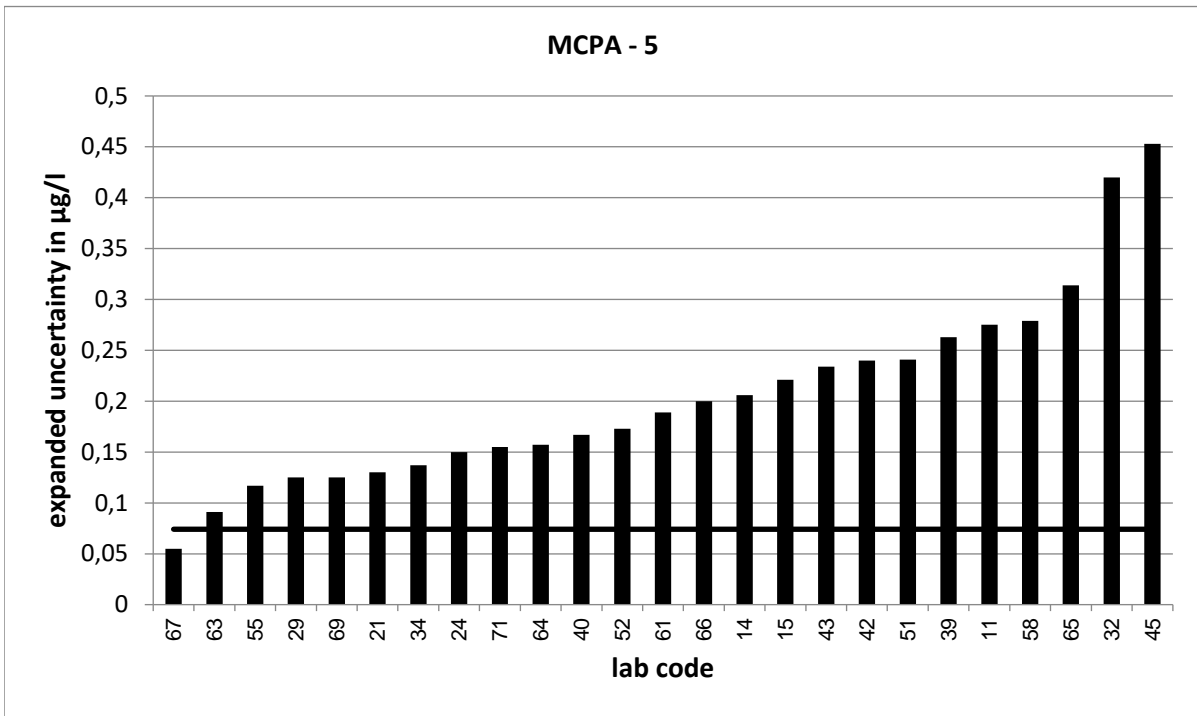


PT 9/24 - TW O4		MCPA - 5			
assigned value [$\mu\text{g/l}$]*		0,8407 \pm 0,0323			
upper tolerance limit [$\mu\text{g/l}$]		1,042			
lower tolerance limit [$\mu\text{g/l}$]		0,6604			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
11	0,915	0,275	0,5	0,7	s
12	0,865			0,2	s
14	0,825	0,206	-0,2	-0,2	s
15	0,797	0,221	-0,4	-0,5	s
16	0,822			-0,2	s
21	0,863	0,13	0,3	0,2	s
23	0,84			0,0	s
24	0,936	0,15	1,2	0,9	s
29	0,836	0,125	-0,1	-0,1	s
32	0,914	0,42	0,3	0,7	s
34	0,879	0,137	0,5	0,4	s
38	0,792			-0,5	s
39	0,876	0,263	0,3	0,3	s
40	0,789	0,167	-0,6	-0,6	s
42	0,829	0,24	-0,1	-0,1	s
43	1,21	0,234	3,1	3,7	u
45	0,906	0,453	0,3	0,6	s
51	0,758	0,241	-0,7	-0,9	s
52	0,866	0,173	0,3	0,3	s
53	0,77			-0,8	s
55	0,862	0,117	0,4	0,2	s
57	0,7933			-0,5	s
58	0,93	0,279	0,6	0,9	s
61	0,754	0,189	-0,9	-1,0	s
63	0,361	0,091	-9,9	-5,3	u
64	0,825	0,157	-0,2	-0,2	s
65	0,897	0,314	0,4	0,6	s
66	0,783	0,2	-0,6	-0,6	s
67	0,874	0,055	1,0	0,3	s
68	0,712			-1,4	s
69	0,807	0,125	-0,5	-0,4	s
71	0,886	0,155	0,6	0,4	s
72	0,843			0,0	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



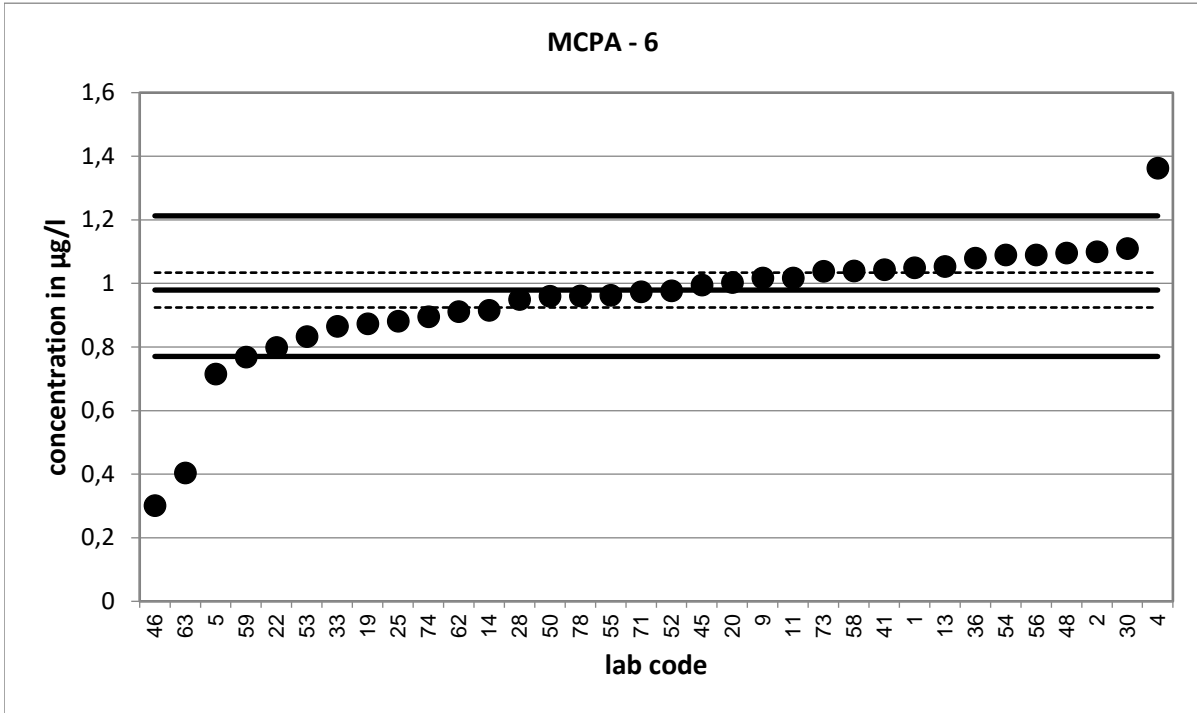


Strongly deviating values are not correctly shown in the diagram.

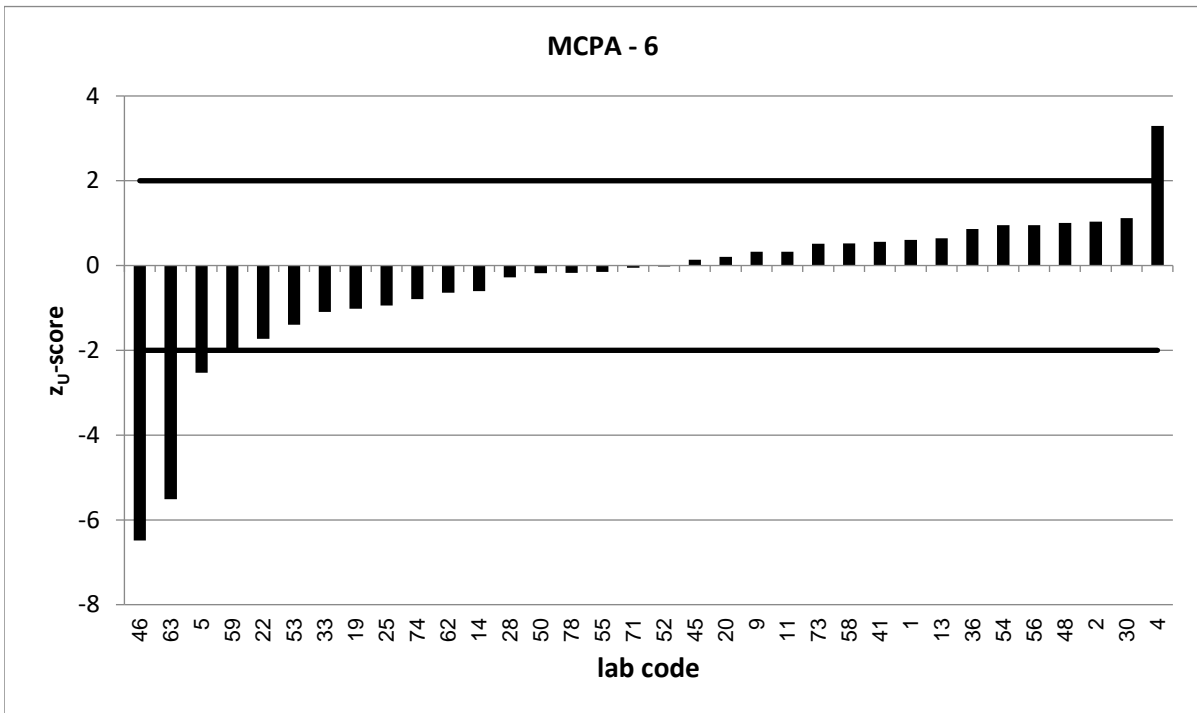
PT 9/24 - TW O4		MCPA - 6			
assigned value [$\mu\text{g/l}$]*		0,9791 \pm 0,0548			
upper tolerance limit [$\mu\text{g/l}$]		1,212			
lower tolerance limit [$\mu\text{g/l}$]		0,7703			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
1	1,05	0,524	0,3	0,6	s
2	1,1	0,095	2,2	1,0	s
4	1,363			3,3	u
5	0,715	0,215	-2,4	-2,5	q
9	1,017	0,305	0,2	0,3	s
11	1,017	0,305	0,2	0,3	s
13	1,054	0,1	1,3	0,6	s
14	0,916	0,229	-0,5	-0,6	s
19	0,873	0,06	-2,6	-1,0	s
20	1,00292			0,2	s
22	0,799			-1,7	s
25	0,881	0,273	-0,7	-0,9	s
28	0,95			-0,3	s
30	1,11	0,22	1,2	1,1	s
33	0,865	0,251	-0,9	-1,1	s
36	1,08			0,9	s
41	1,044	0,204	0,6	0,6	s
45	0,995	0,498	0,1	0,1	s
46	0,302	0,121	-10,2	-6,5	u
48	1,096	0,274	0,8	1,0	s
50	0,96			-0,2	s
52	0,977	0,195	0,0	0,0	s
53	0,833			-1,4	s
54	1,09			1,0	s
55	0,963	0,131	-0,2	-0,2	s
56	1,09			1,0	s
58	1,04	0,312	0,4	0,5	s
59	0,769	0,154	-2,6	-2,0	s
62	0,912	0,274	-0,5	-0,6	s
63	0,404	0,102	-9,9	-5,5	u
71	0,974	0,17	-0,1	0,0	s
73	1,039	0,364	0,3	0,5	s
74	0,896	0,143	-1,1	-0,8	s
78	0,961	0,231	-0,2	-0,2	s

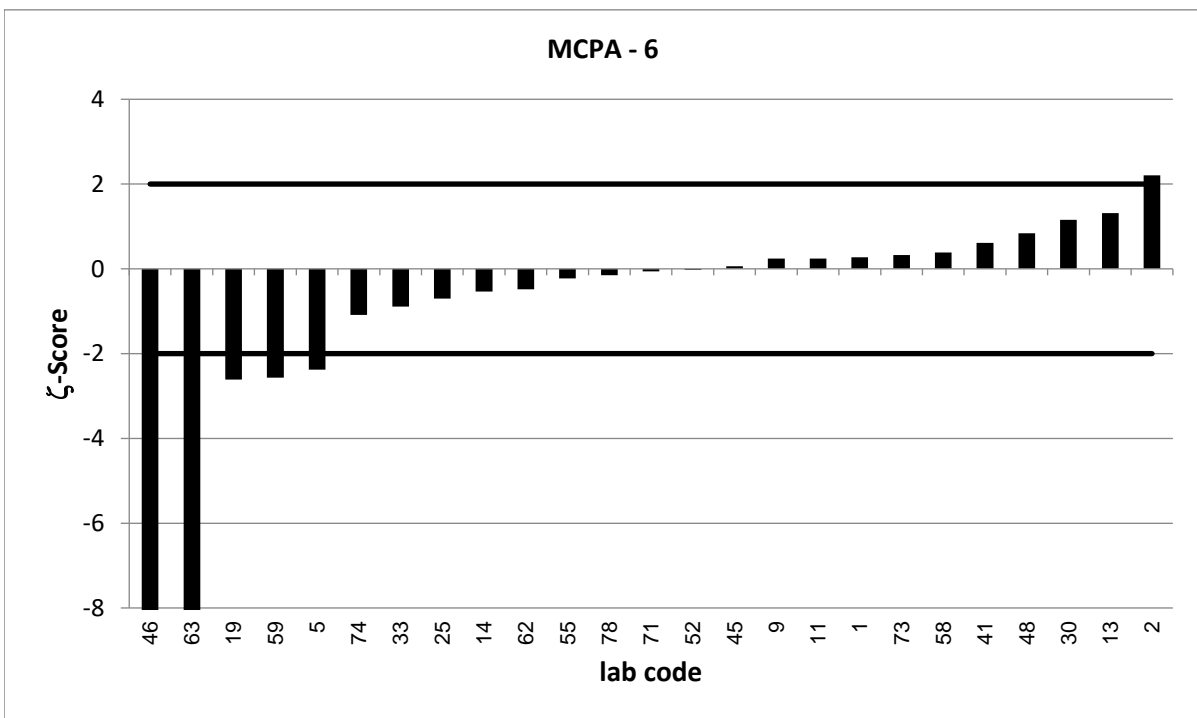
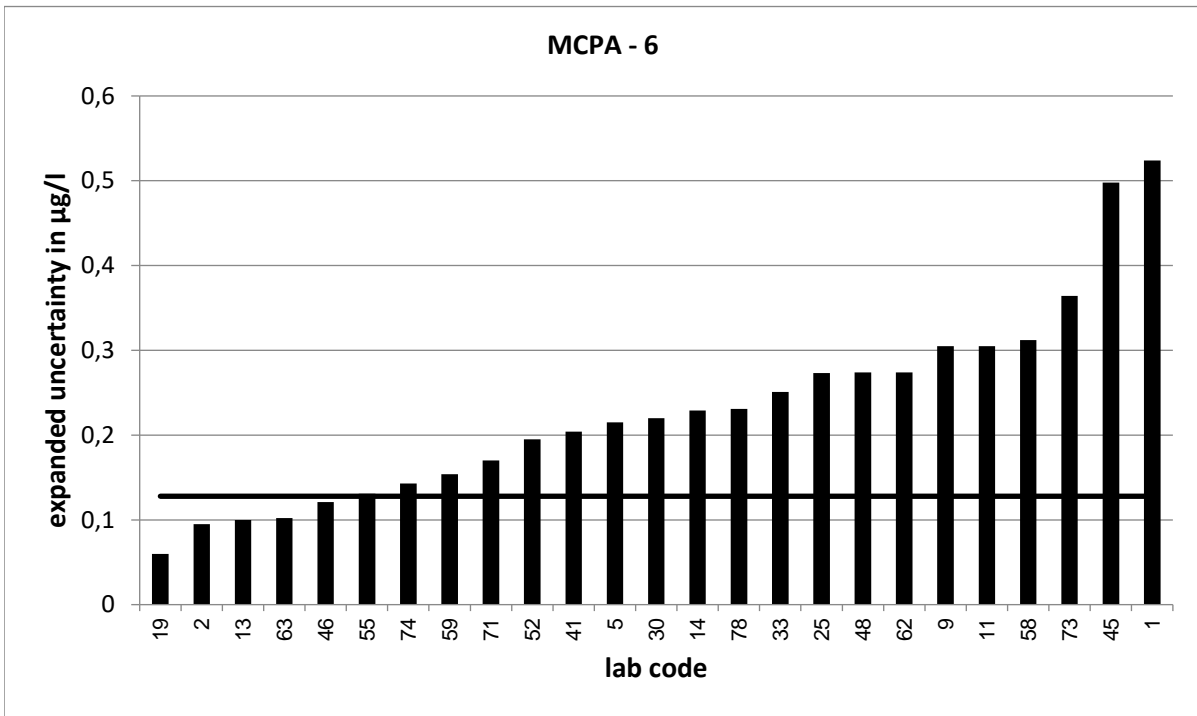
* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



Strongly deviating values are not shown in the diagram.



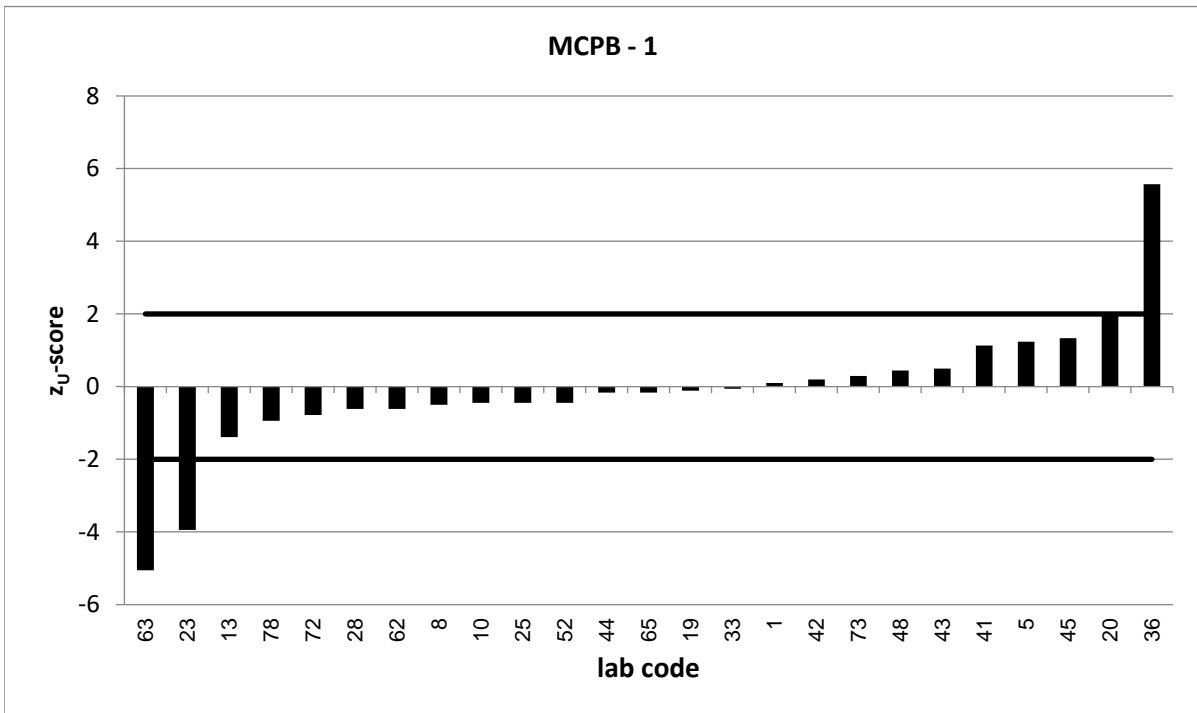
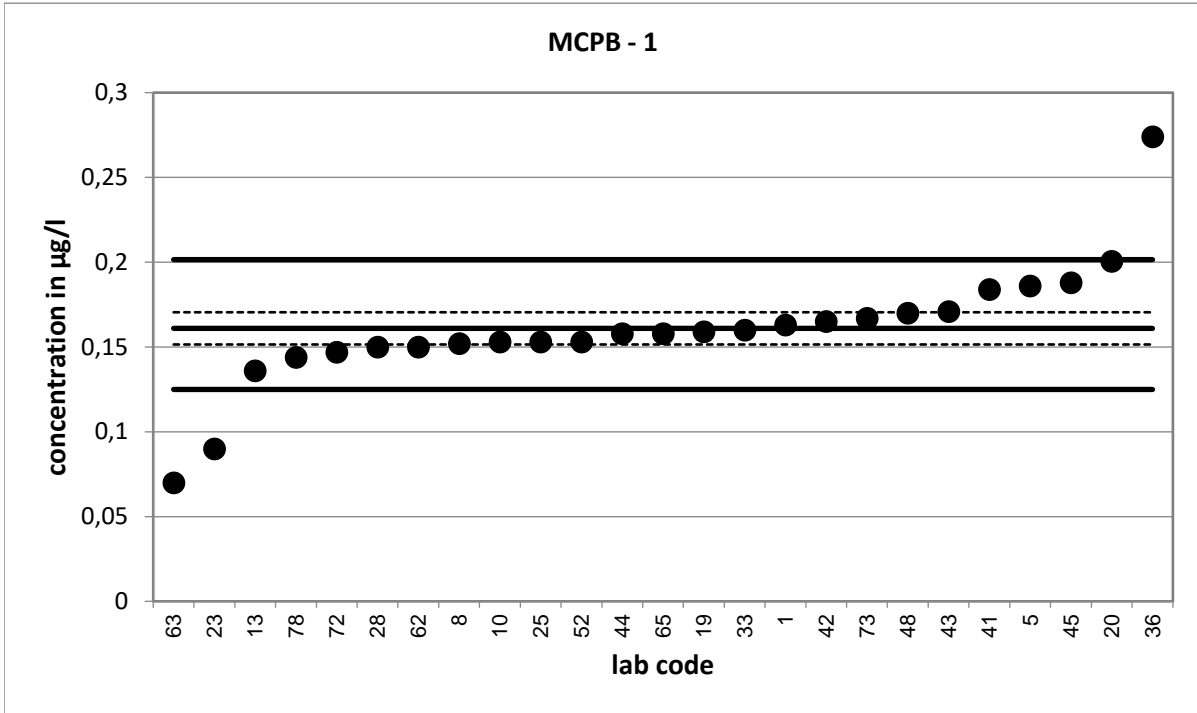


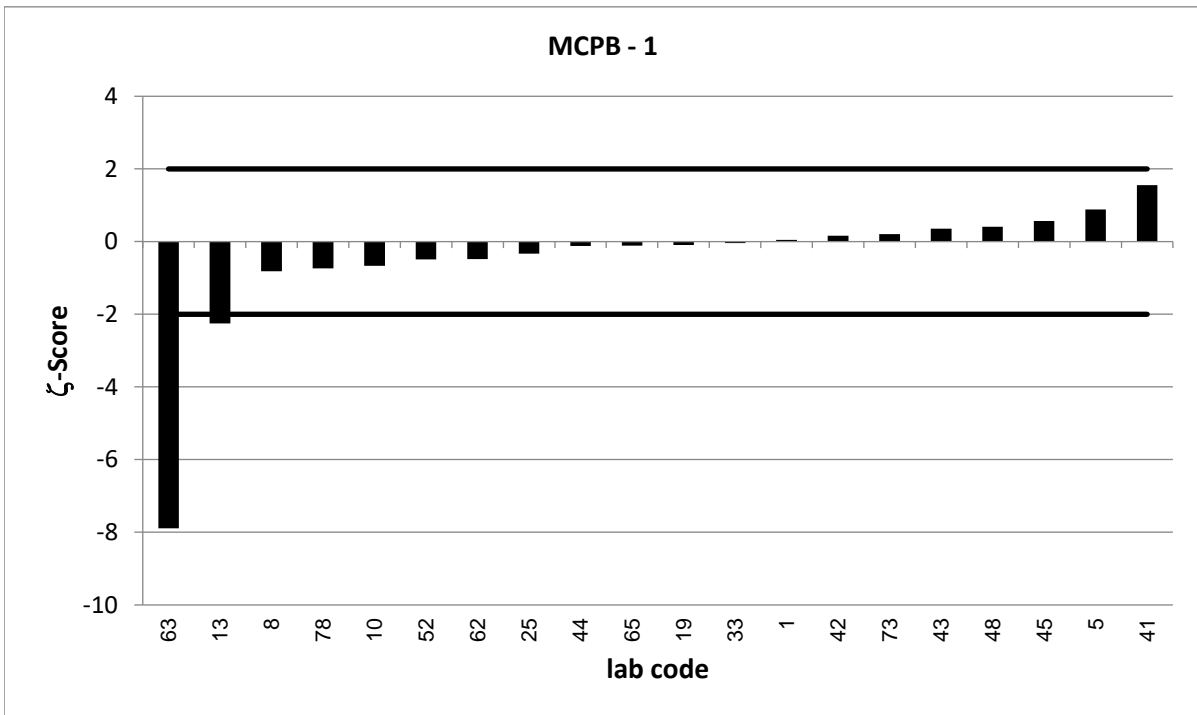
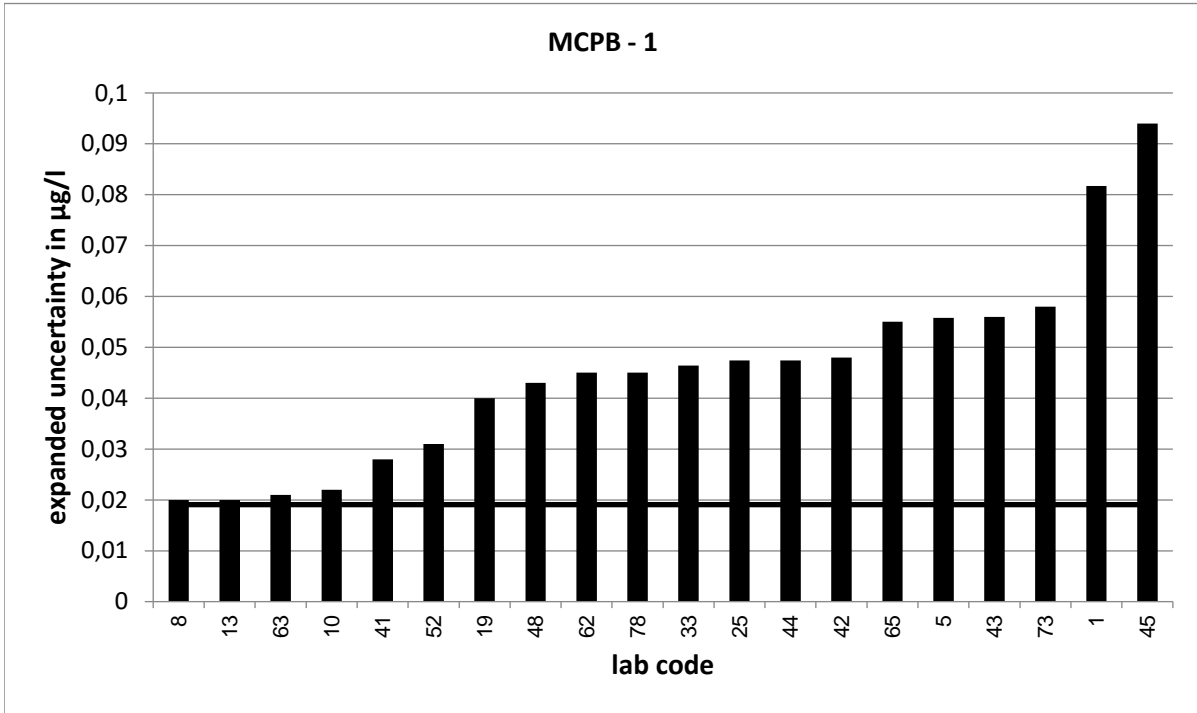
Strongly deviating values are not correctly shown in the diagram.

PT 9/24 - TW O4		MCPB - 1			
assigned value [$\mu\text{g/l}$]*		0,161 \pm 0,0095			
upper tolerance limit [$\mu\text{g/l}$]		0,2015			
lower tolerance limit [$\mu\text{g/l}$]		0,125			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
1	0,163	0,082	0,0	0,1	s
5	0,186	0,056	0,9	1,2	s
8	0,152	0,02	-0,8	-0,5	s
10	0,153	0,022	-0,7	-0,4	s
13	0,136	0,02	-2,3	-1,4	s
19	0,159	0,04	-0,1	-0,1	s
20	0,20054			2,0	s
23	0,09			-3,9	u
25	0,153	0,047	-0,3	-0,4	s
28	0,15			-0,6	s
33	0,16	0,046	0,0	-0,1	s
36	0,274			5,6	u
41	0,184	0,028	1,6	1,1	s
42	0,165	0,048	0,2	0,2	s
43	0,171	0,056	0,4	0,5	s
44	0,158	0,047	-0,1	-0,2	s
45	0,188	0,094	0,6	1,3	s
48	0,17	0,043	0,4	0,4	s
52	0,153	0,031	-0,5	-0,4	s
62	0,15	0,045	-0,5	-0,6	s
63	0,07	0,021	-7,9	-5,0	u
65	0,158	0,055	-0,1	-0,2	s
72	0,147			-0,8	s
73	0,167	0,058	0,2	0,3	s
78	0,144	0,045	-0,7	-0,9	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory

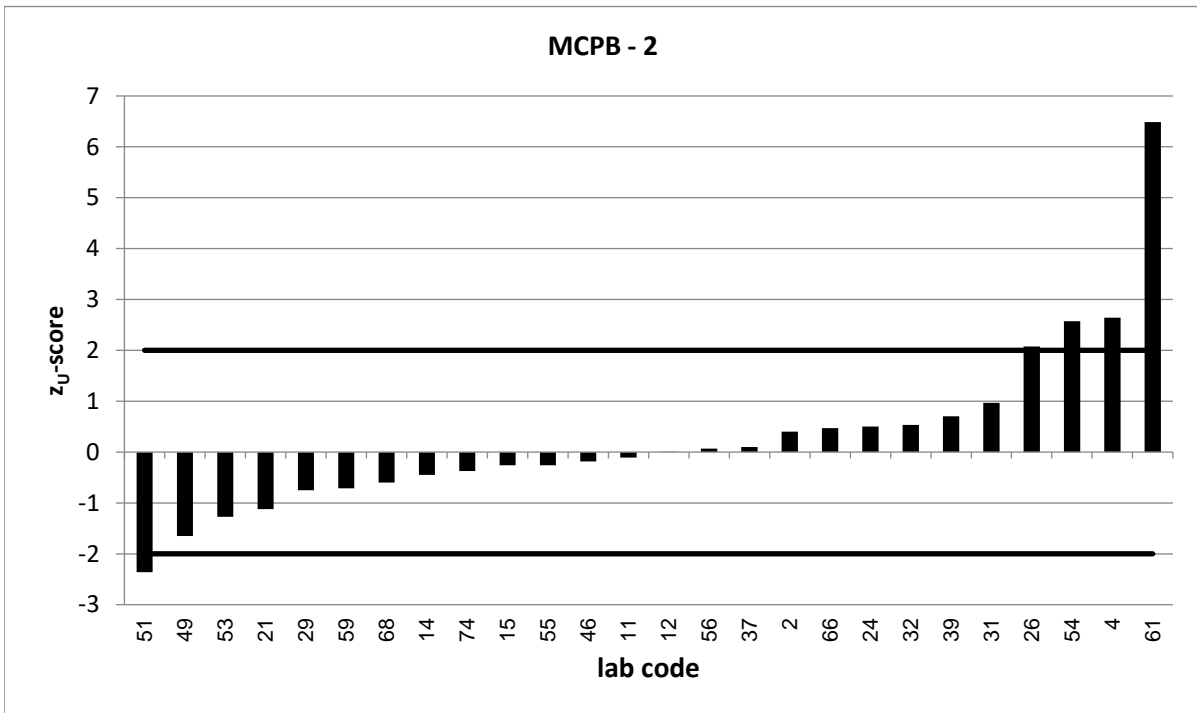
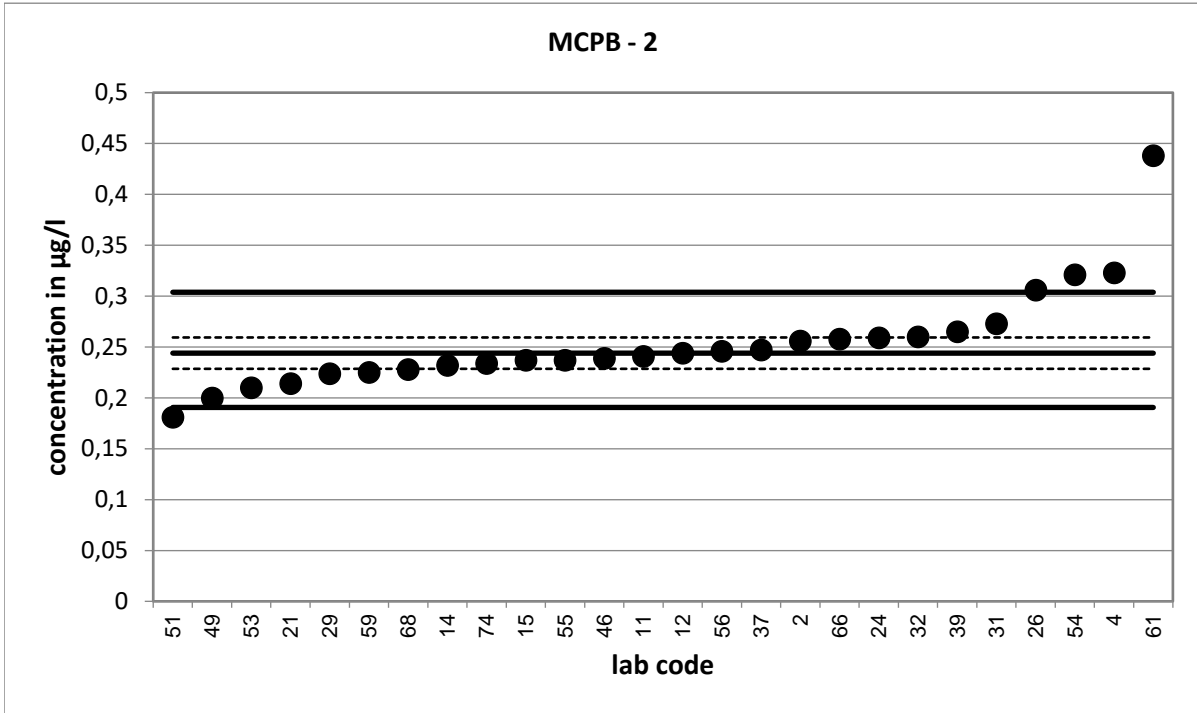


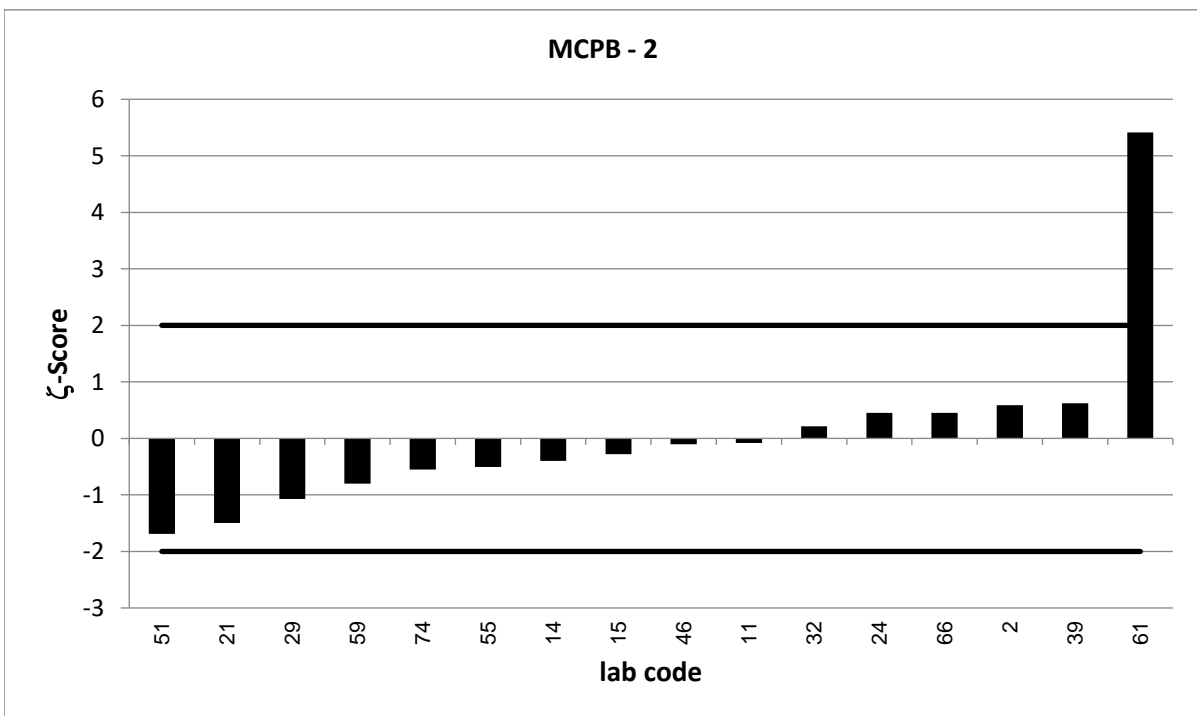
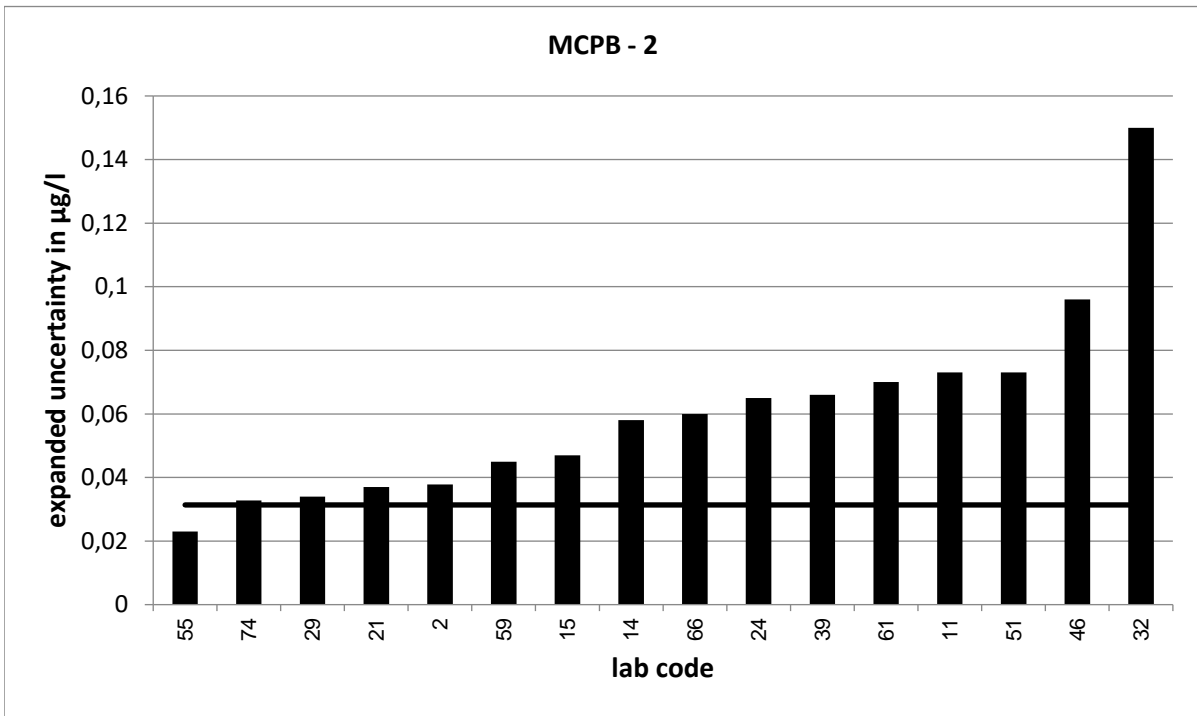


PT 9/24 - TW O4		MCPB - 2			
assigned value [$\mu\text{g/l}$]*		0,244 \pm 0,0154			
upper tolerance limit [$\mu\text{g/l}$]		0,3038			
lower tolerance limit [$\mu\text{g/l}$]		0,1906			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
2	0,256	0,038	0,6	0,4	s
4	0,323			2,6	q
11	0,241	0,073	-0,1	-0,1	s
12	0,244			0,0	s
14	0,232	0,058	-0,4	-0,4	s
15	0,237	0,047	-0,3	-0,3	s
21	0,214	0,037	-1,5	-1,1	s
24	0,259	0,065	0,5	0,5	s
26	0,306			2,1	q
29	0,224	0,034	-1,1	-0,7	s
31	0,273			1,0	s
32	0,26	0,15	0,2	0,5	s
37	0,247			0,1	s
39	0,265	0,066	0,6	0,7	s
46	0,239	0,096	-0,1	-0,2	s
49	0,2			-1,6	s
51	0,181	0,073	-1,7	-2,4	q
53	0,21			-1,3	s
54	0,321			2,6	q
55	0,237	0,023	-0,5	-0,3	s
56	0,246			0,1	s
59	0,225	0,045	-0,8	-0,7	s
61	0,438	0,07	5,4	6,5	u
66	0,258	0,06	0,5	0,5	s
68	0,228			-0,6	s
74	0,234	0,033	-0,5	-0,4	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory

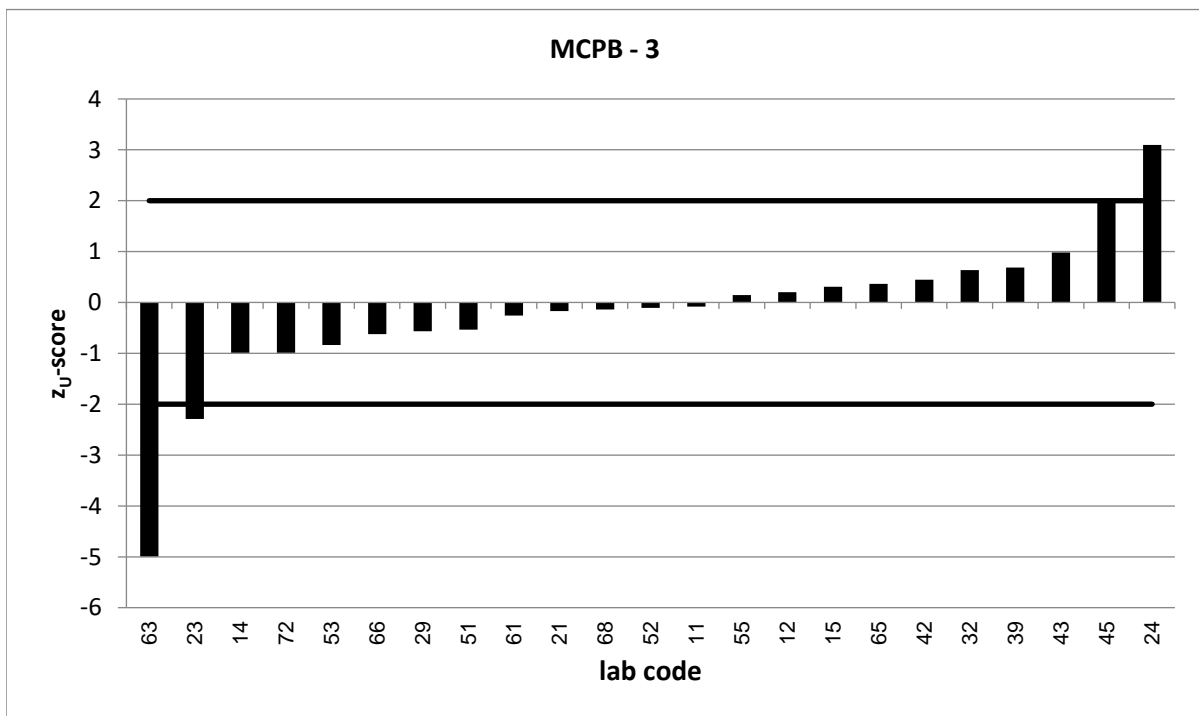
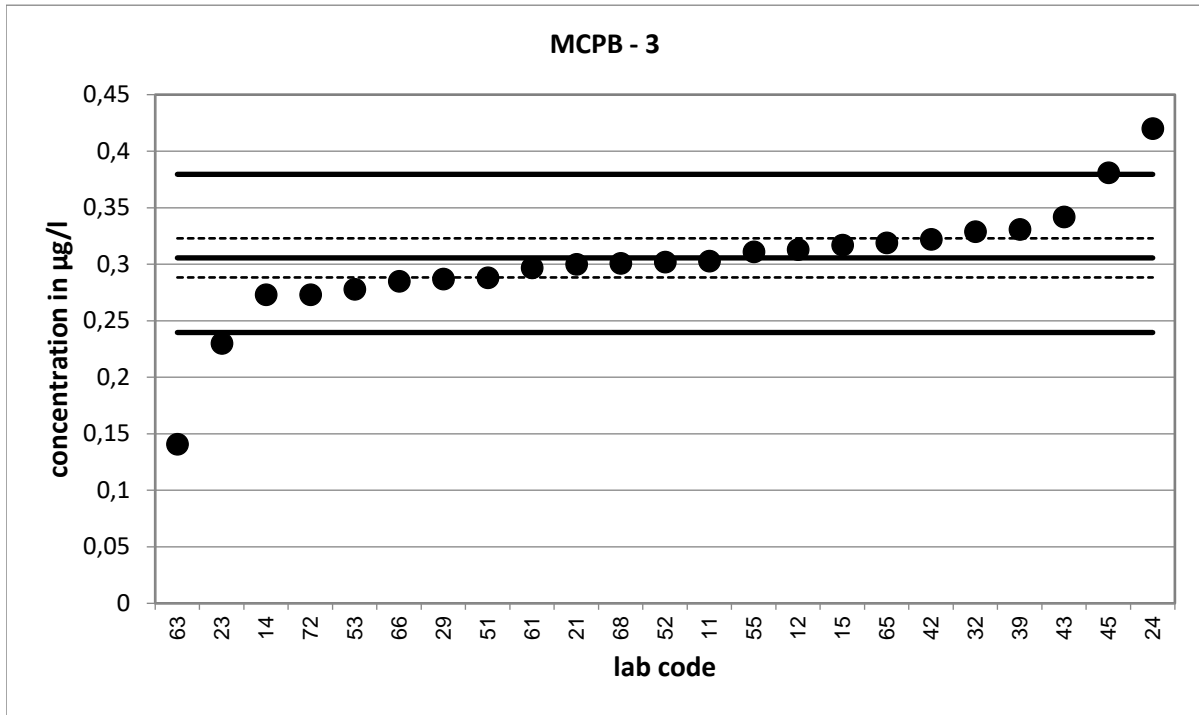


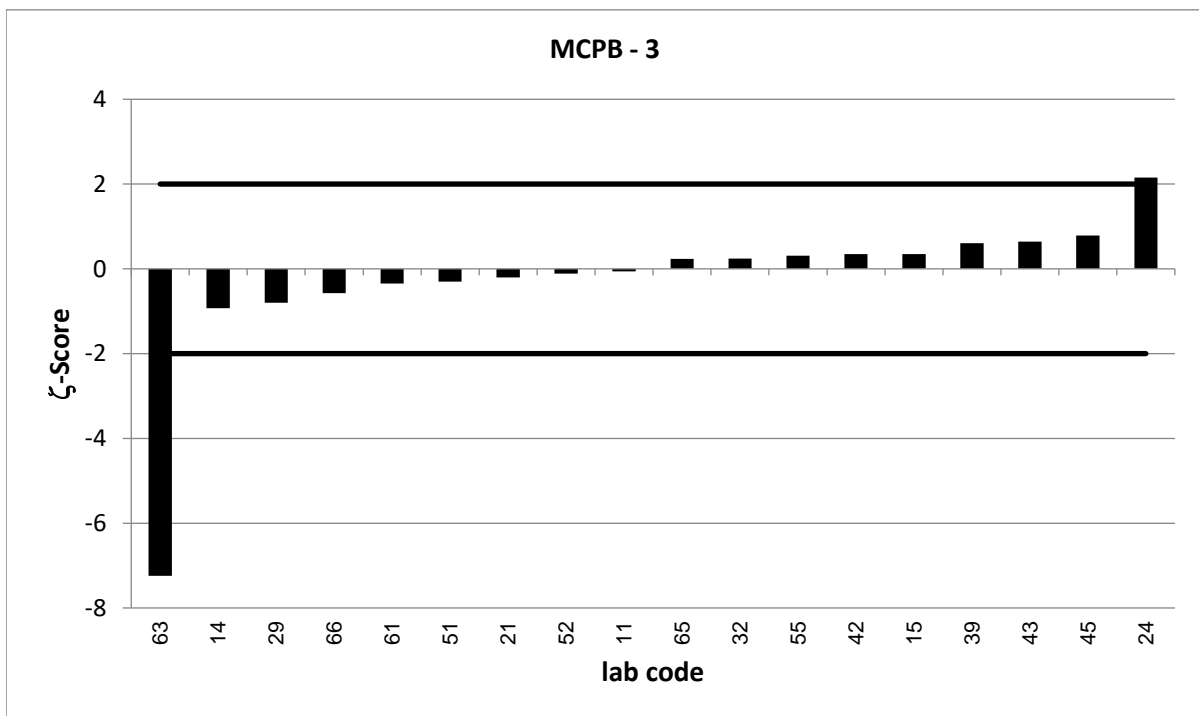
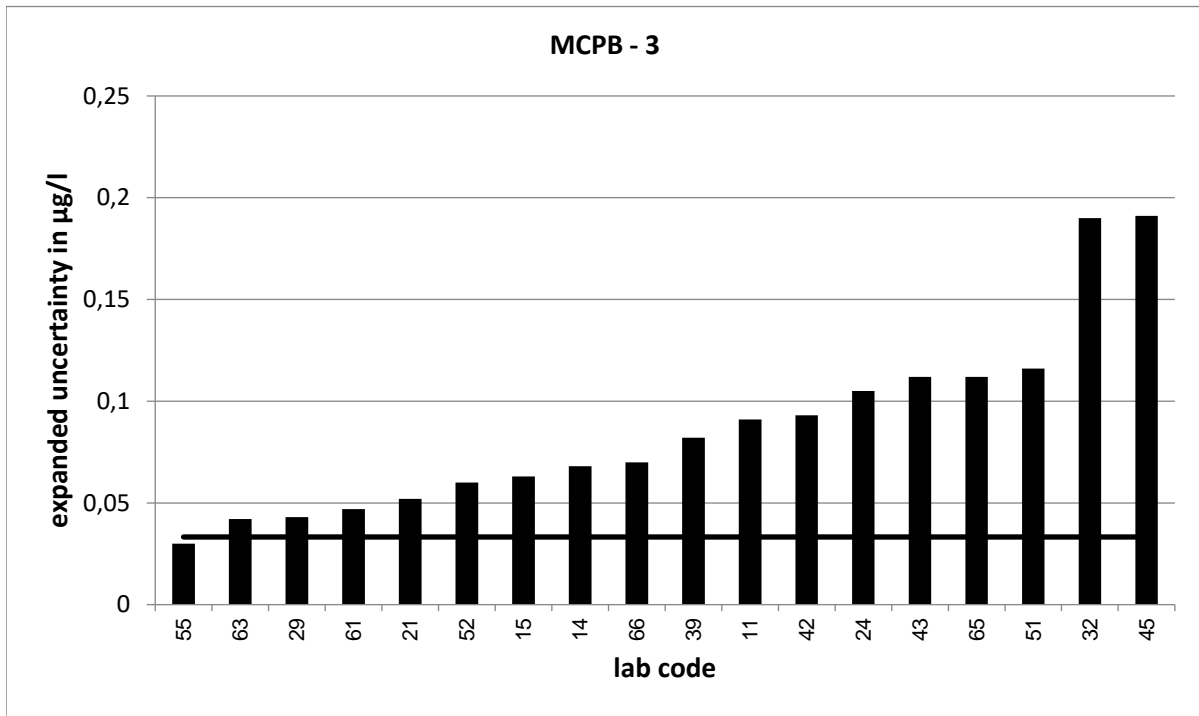


PT 9/24 - TW O4		MCPB - 3			
assigned value [$\mu\text{g/l}$]*		0,3056 \pm 0,0173			
upper tolerance limit [$\mu\text{g/l}$]		0,3795			
lower tolerance limit [$\mu\text{g/l}$]		0,2396			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
11	0,303	0,091	-0,1	-0,1	s
12	0,313			0,2	s
14	0,273	0,068	-0,9	-1,0	s
15	0,317	0,063	0,3	0,3	s
21	0,3	0,052	-0,2	-0,2	s
23	0,23			-2,3	q
24	0,42	0,105	2,2	3,1	u
29	0,287	0,043	-0,8	-0,6	s
32	0,329	0,19	0,2	0,6	s
39	0,331	0,082	0,6	0,7	s
42	0,322	0,093	0,3	0,4	s
43	0,342	0,112	0,6	1,0	s
45	0,381	0,191	0,8	2,0	s
51	0,288	0,116	-0,3	-0,5	s
52	0,302	0,06	-0,1	-0,1	s
53	0,278			-0,8	s
55	0,311	0,03	0,3	0,1	s
61	0,297	0,047	-0,3	-0,3	s
63	0,141	0,042	-7,2	-5,0	u
65	0,319	0,112	0,2	0,4	s
66	0,285	0,07	-0,6	-0,6	s
68	0,301			-0,1	s
72	0,273			-1,0	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory

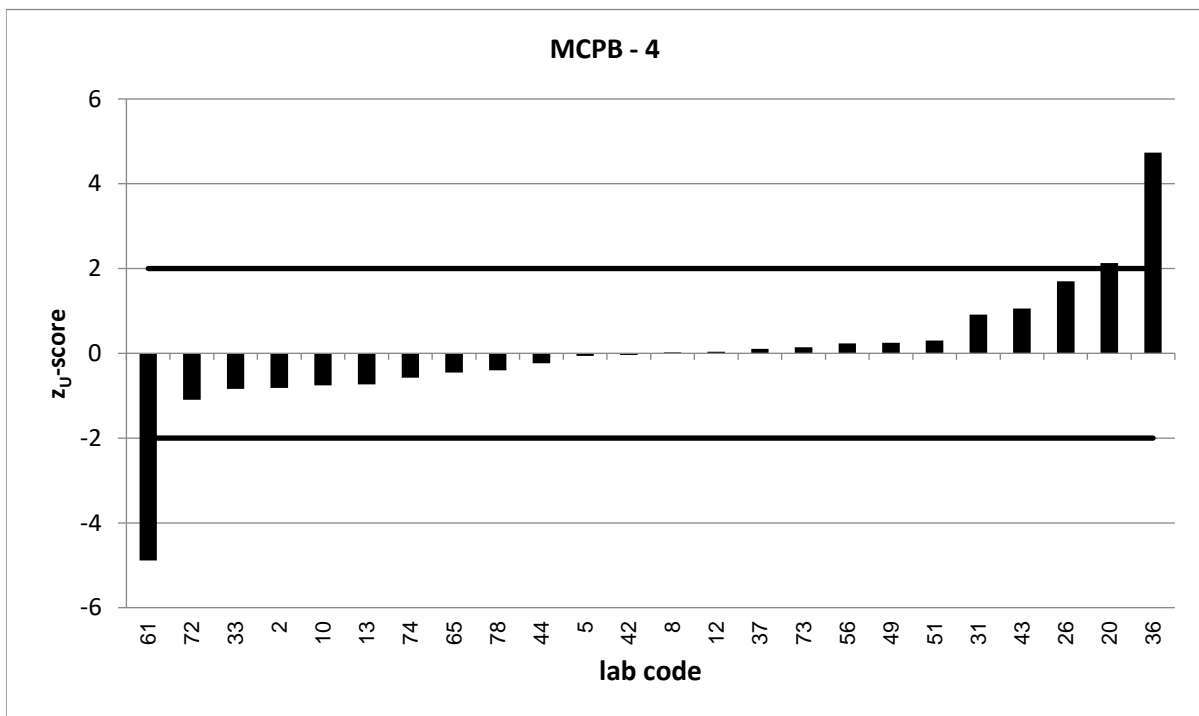
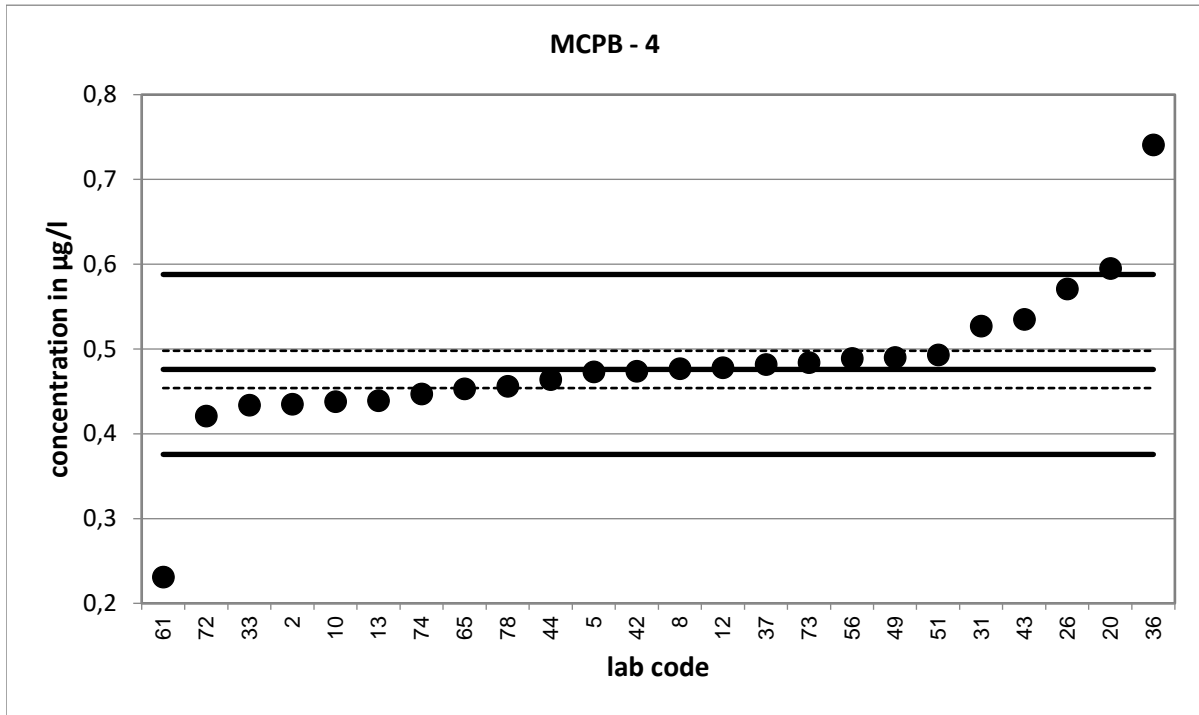


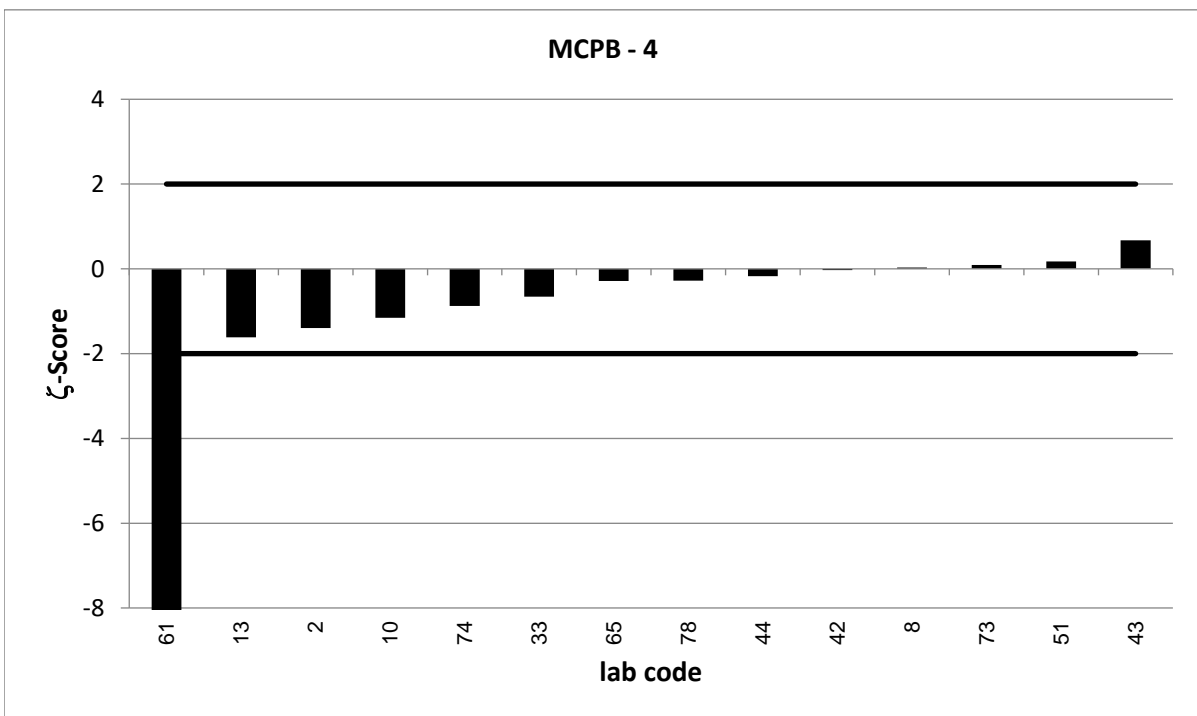
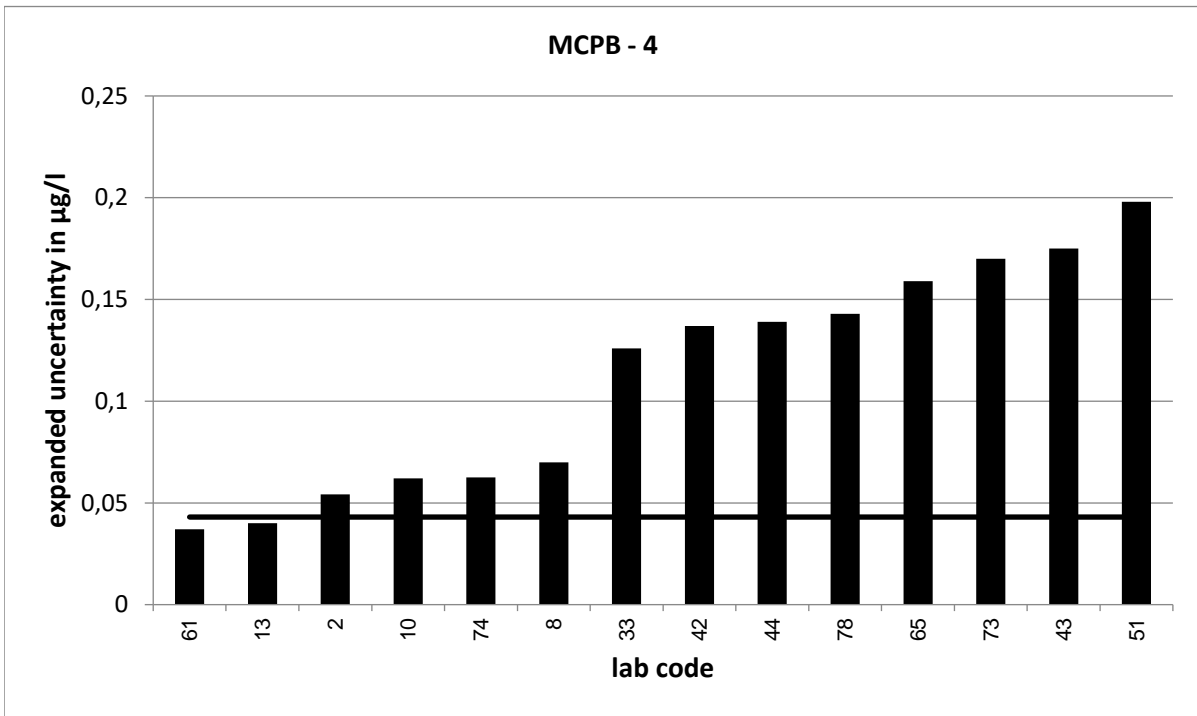


PT 9/24 - TW O4		MCPB - 4			
assigned value [$\mu\text{g/l}$]*		0,4759 \pm 0,022			
upper tolerance limit [$\mu\text{g/l}$]		0,5879			
lower tolerance limit [$\mu\text{g/l}$]		0,3756			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
2	0,435	0,054	-1,4	-0,8	s
5	0,473			-0,1	s
8	0,477	0,07	0,0	0,0	s
10	0,438	0,062	-1,2	-0,8	s
12	0,478			0,0	s
13	0,439	0,04	-1,6	-0,7	s
20	0,59498			2,1	q
26	0,571			1,7	s
31	0,527			0,9	s
33	0,434	0,126	-0,7	-0,8	s
36	0,741			4,7	u
37	0,482			0,1	s
42	0,474	0,137	0,0	0,0	s
43	0,535	0,175	0,7	1,1	s
44	0,464	0,139	-0,2	-0,2	s
49	0,49			0,3	s
51	0,493	0,198	0,2	0,3	s
56	0,489			0,2	s
61	0,231	0,037	-11,4	-4,9	u
65	0,453	0,159	-0,3	-0,5	s
72	0,421			-1,1	s
73	0,484	0,17	0,1	0,1	s
74	0,447	0,063	-0,9	-0,6	s
78	0,456	0,143	-0,3	-0,4	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



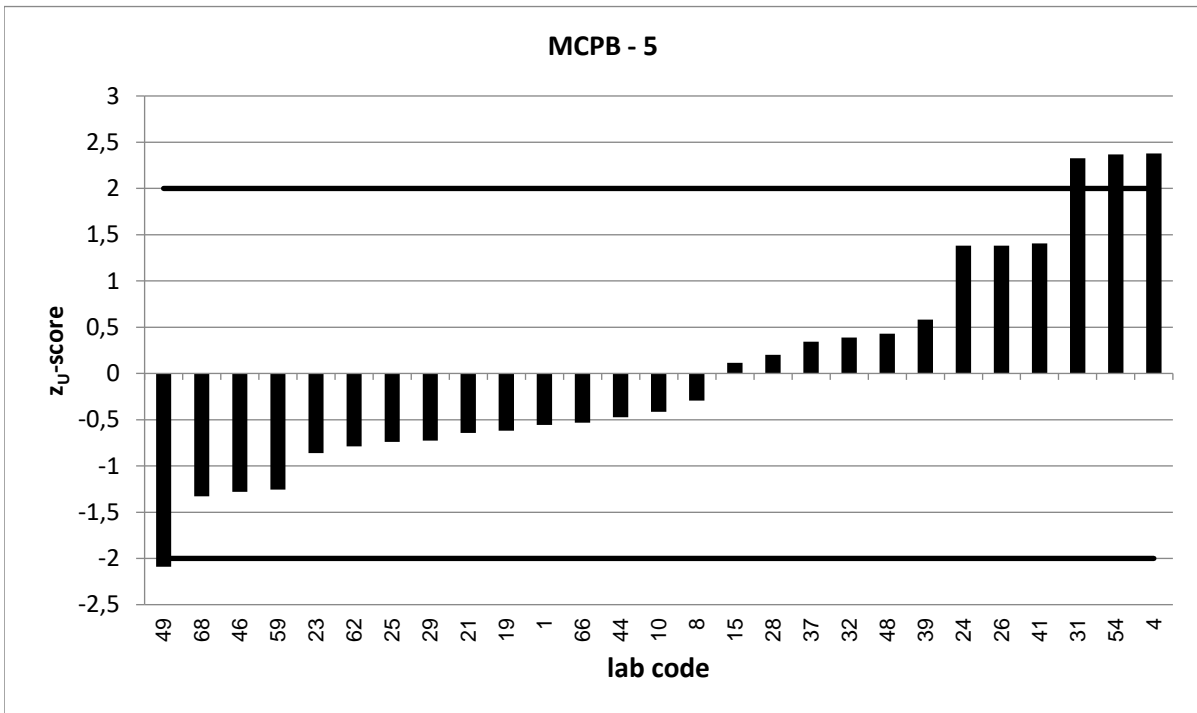
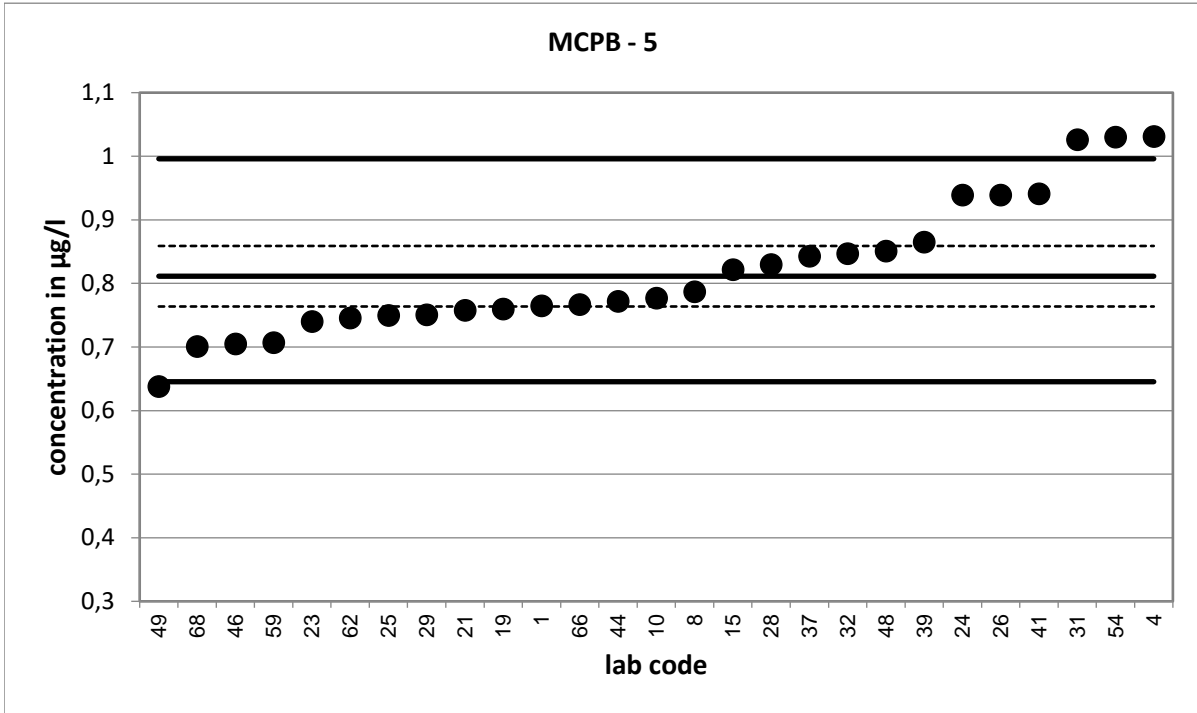


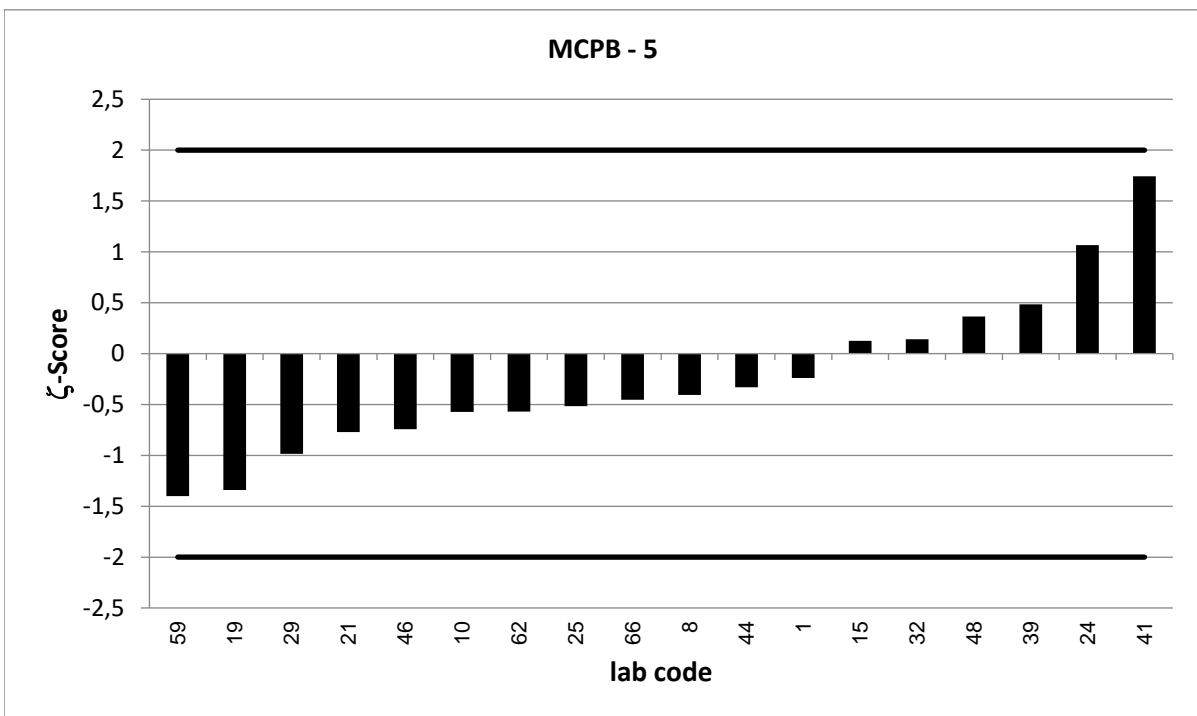
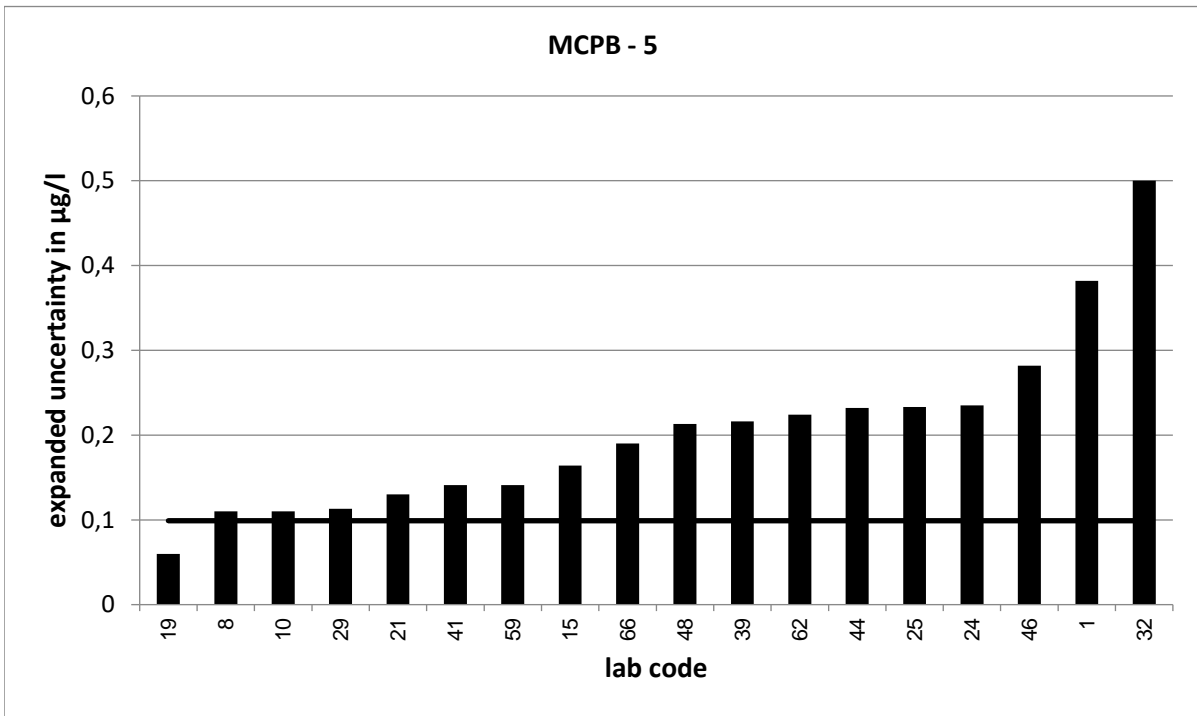
Strongly deviating values are not correctly shown in the diagram.

PT 9/24 - TW O4		MCPB - 5			
assigned value [$\mu\text{g/l}$]*		0,8113 \pm 0,0476			
upper tolerance limit [$\mu\text{g/l}$]		0,996			
lower tolerance limit [$\mu\text{g/l}$]		0,6454			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
1	0,765	0,382	-0,2	-0,6	s
4	1,031			2,4	q
8	0,787	0,11	-0,4	-0,3	s
10	0,777	0,11	-0,6	-0,4	s
15	0,822	0,164	0,1	0,1	s
19	0,76	0,06	-1,3	-0,6	s
21	0,758	0,13	-0,8	-0,6	s
23	0,74			-0,9	s
24	0,939	0,235	1,1	1,4	s
25	0,75	0,233	-0,5	-0,7	s
26	0,939			1,4	s
28	0,83			0,2	s
29	0,751	0,113	-1,0	-0,7	s
31	1,026			2,3	q
32	0,847	0,5	0,1	0,4	s
37	0,843			0,3	s
39	0,865	0,216	0,5	0,6	s
41	0,941	0,141	1,7	1,4	s
44	0,772	0,232	-0,3	-0,5	s
46	0,705	0,282	-0,7	-1,3	s
48	0,851	0,213	0,4	0,4	s
49	0,638			-2,1	q
54	1,03			2,4	q
59	0,707	0,141	-1,4	-1,3	s
62	0,746	0,224	-0,6	-0,8	s
66	0,767	0,19	-0,5	-0,5	s
68	0,701			-1,3	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory

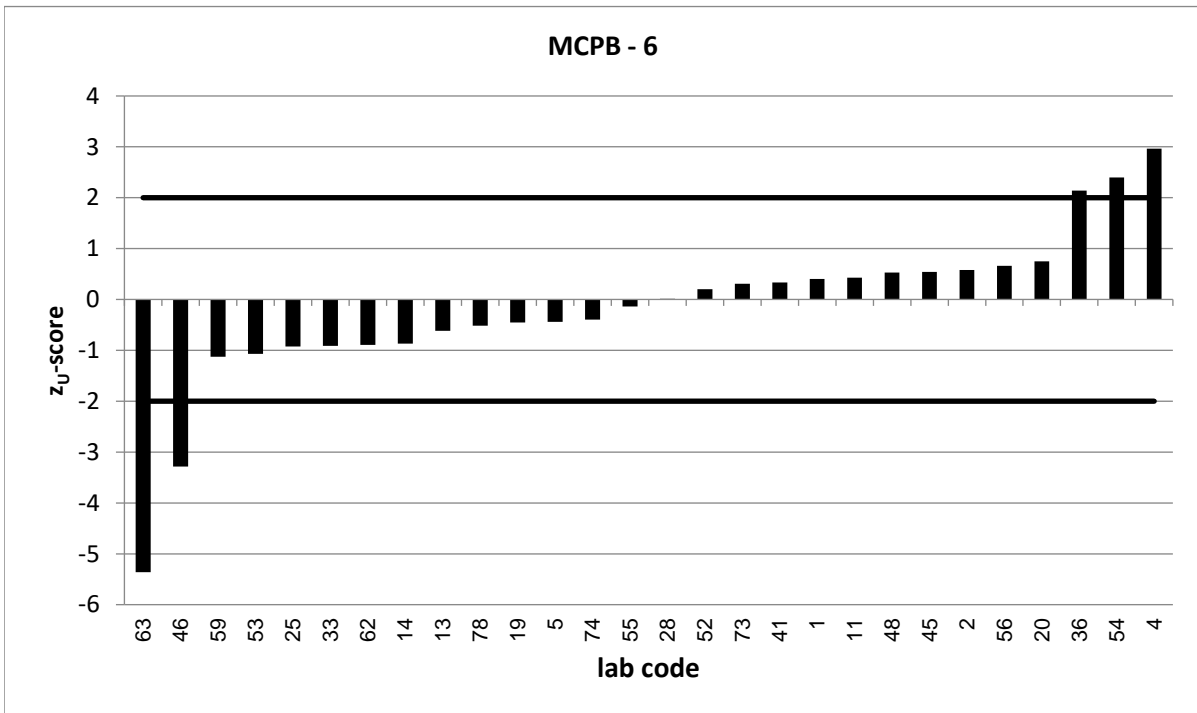
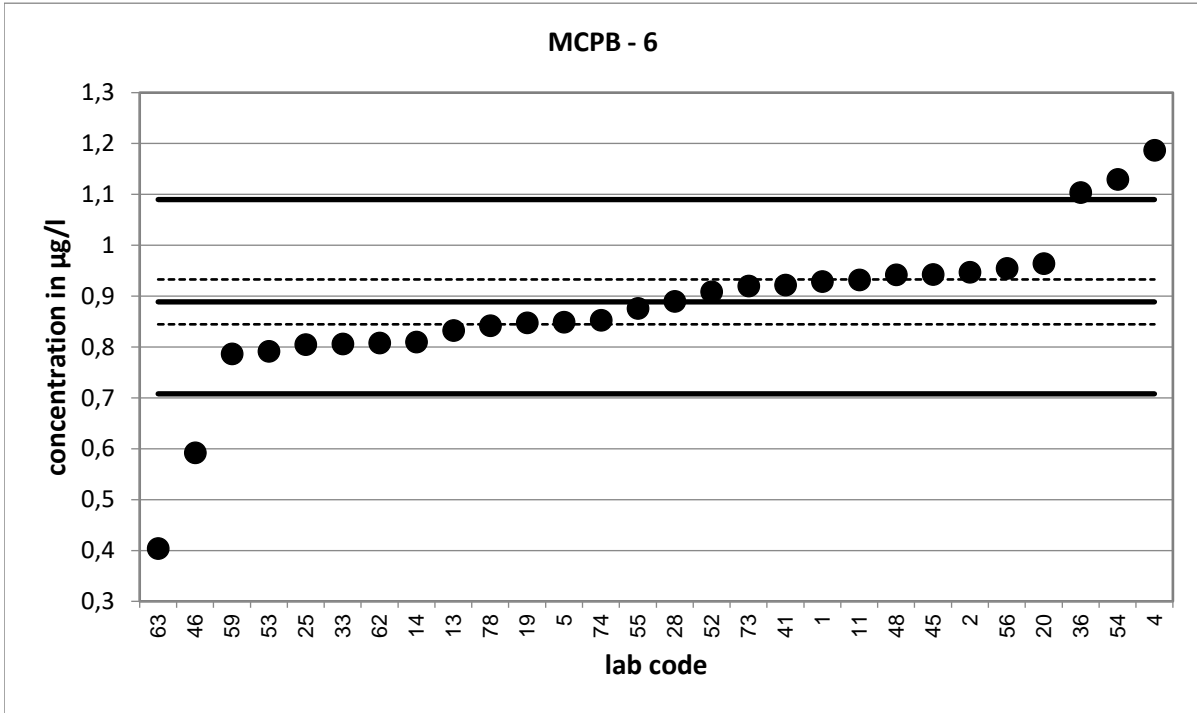


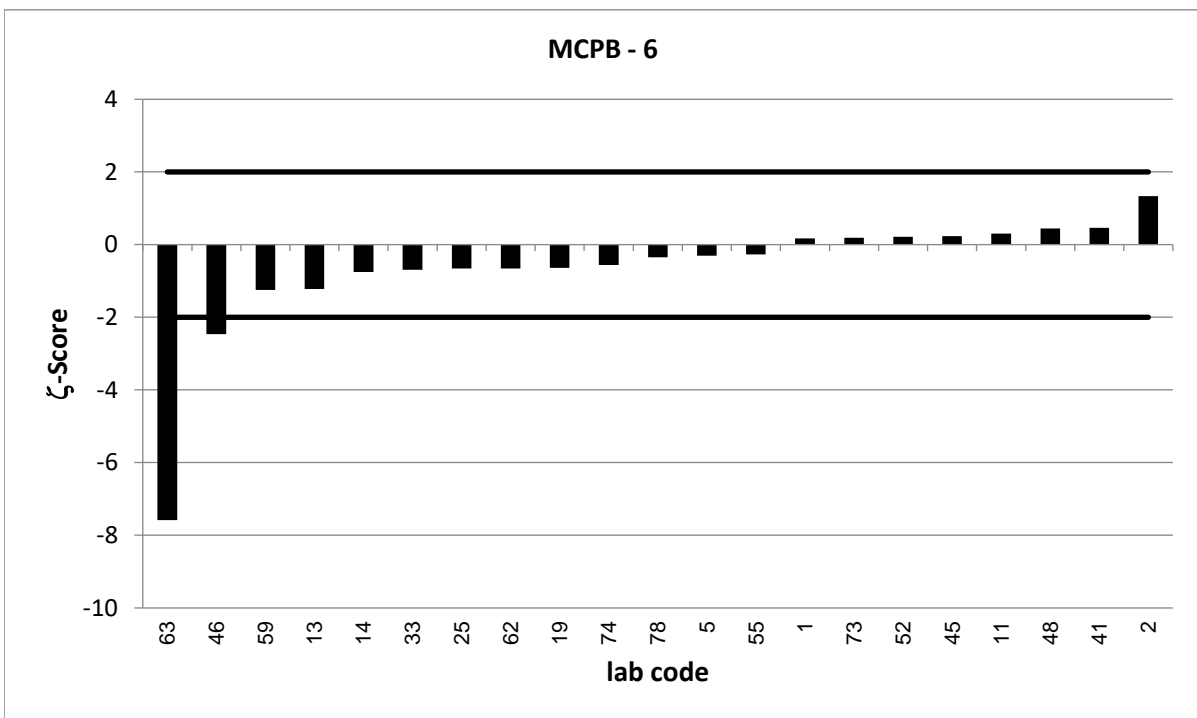
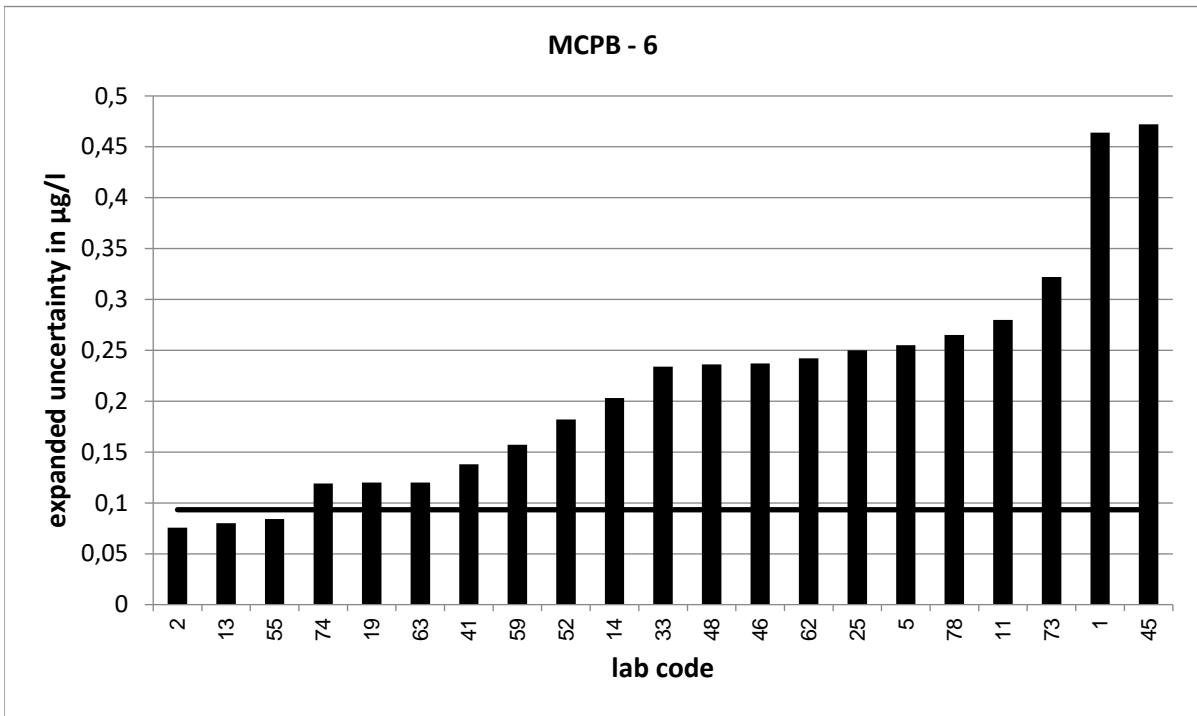


PT 9/24 - TW O4		MCPB - 6			
assigned value [$\mu\text{g/l}$]*		0,8887 \pm 0,0441			
upper tolerance limit [$\mu\text{g/l}$]		1,09			
lower tolerance limit [$\mu\text{g/l}$]		0,7079			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
1	0,929	0,464	0,2	0,4	s
2	0,947	0,076	1,3	0,6	s
4	1,187			3,0	u
5	0,849	0,255	-0,3	-0,4	s
11	0,932	0,28	0,3	0,4	s
13	0,833	0,08	-1,2	-0,6	s
14	0,81	0,203	-0,8	-0,9	s
19	0,848	0,12	-0,6	-0,5	s
20	0,96407			0,7	s
25	0,805	0,25	-0,7	-0,9	s
28	0,89			0,0	s
33	0,806	0,234	-0,7	-0,9	s
36	1,104			2,1	q
41	0,922	0,138	0,5	0,3	s
45	0,943	0,472	0,2	0,5	s
46	0,592	0,237	-2,5	-3,3	u
48	0,942	0,236	0,4	0,5	s
52	0,909	0,182	0,2	0,2	s
53	0,792			-1,1	s
54	1,13			2,4	q
55	0,876	0,084	-0,3	-0,1	s
56	0,955			0,7	s
59	0,787	0,157	-1,2	-1,1	s
62	0,808	0,242	-0,7	-0,9	s
63	0,404	0,12	-7,6	-5,4	u
73	0,92	0,322	0,2	0,3	s
74	0,853	0,119	-0,6	-0,4	s
78	0,842	0,265	-0,3	-0,5	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory

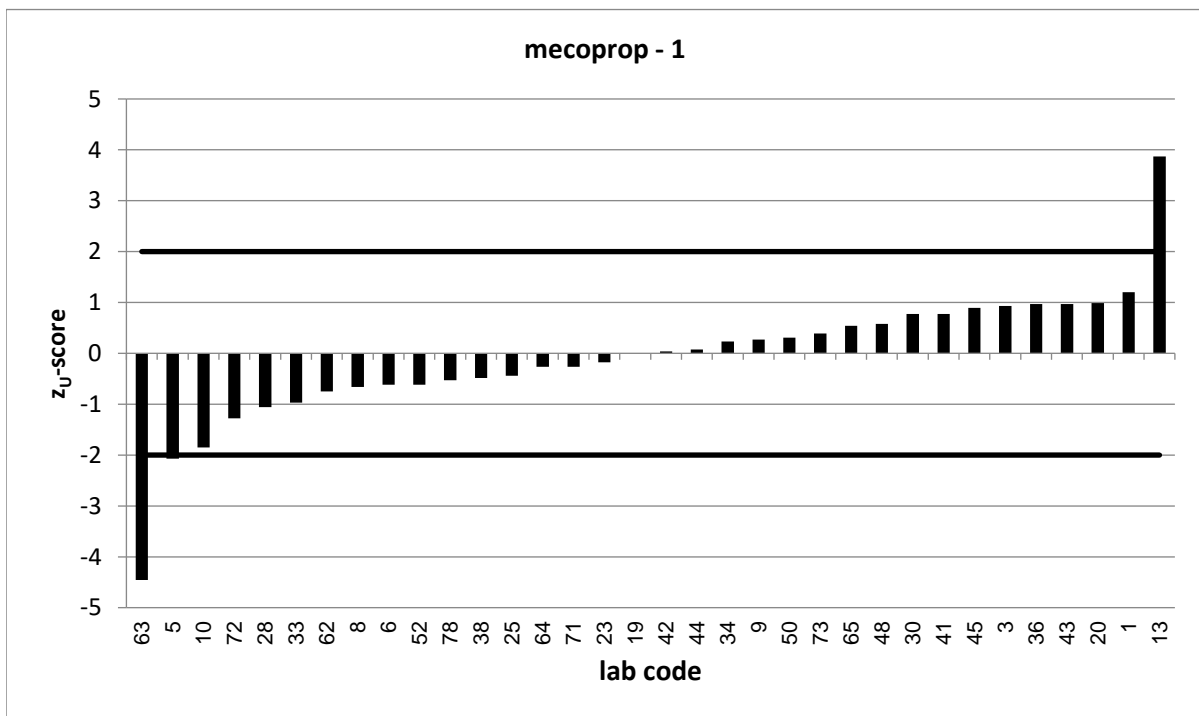
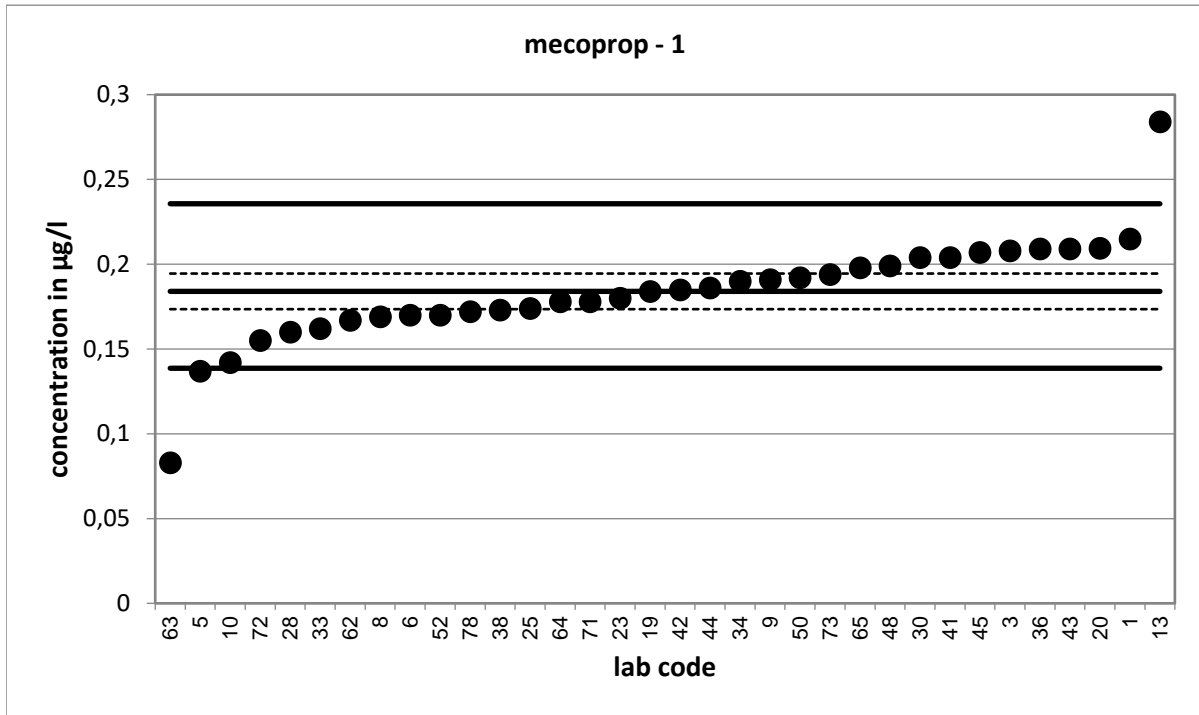


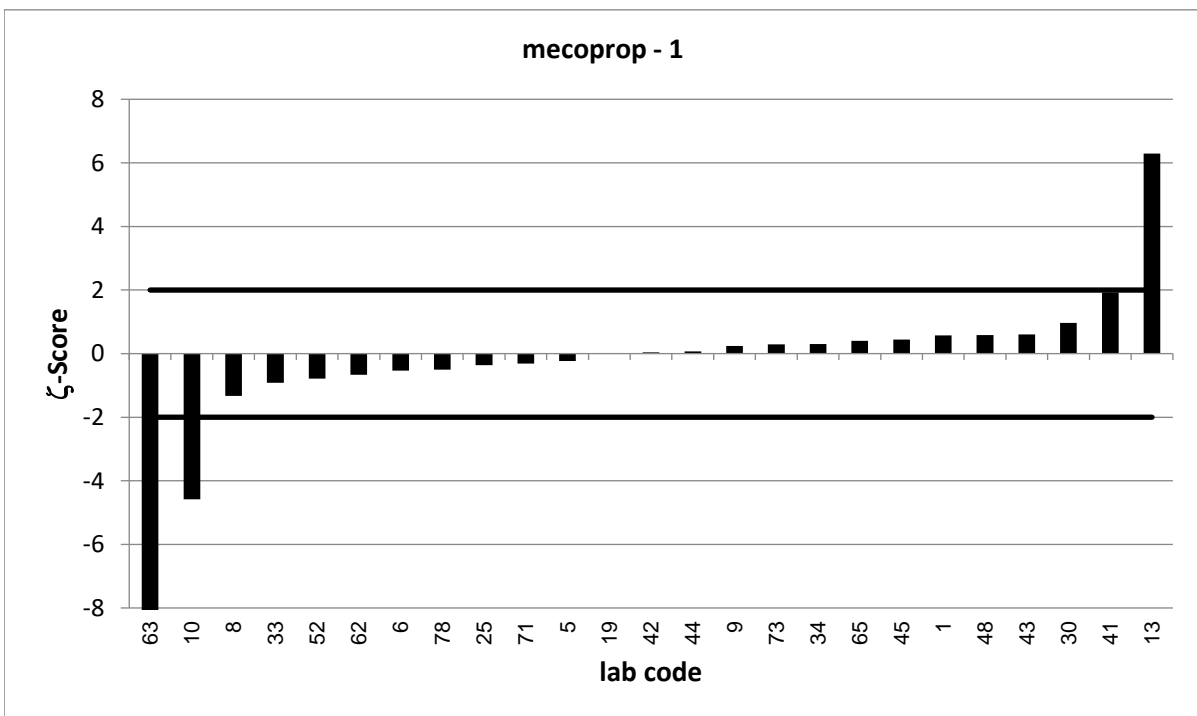
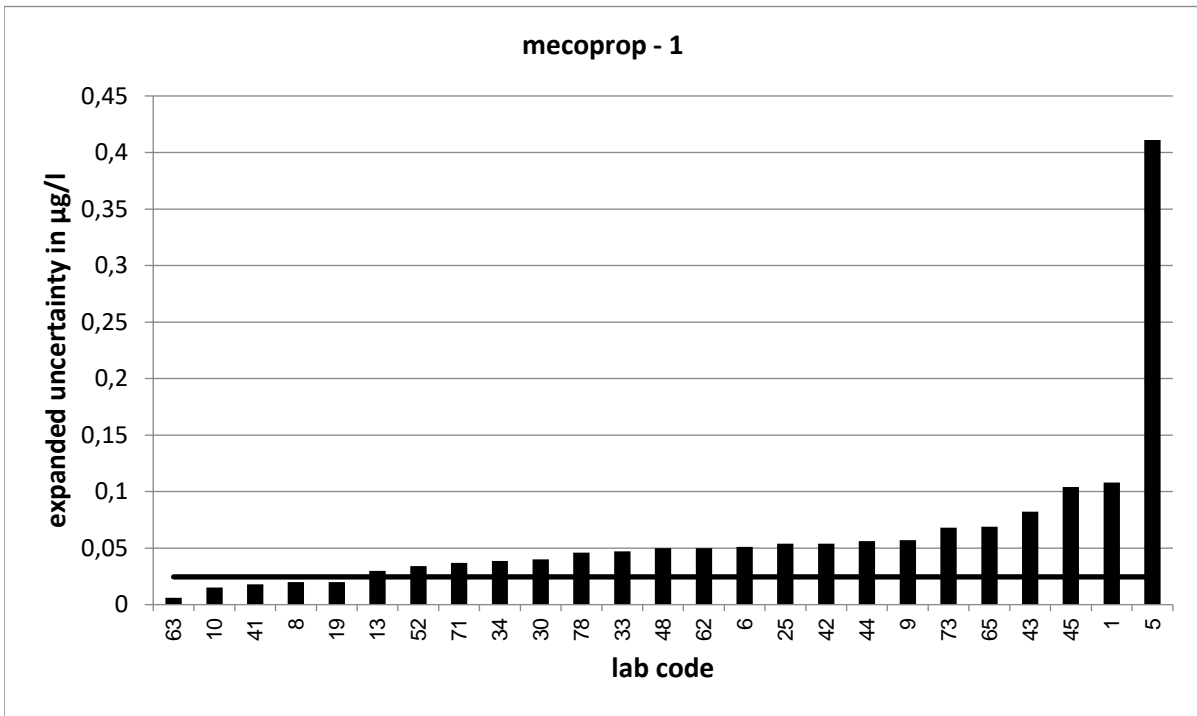


PT 9/24 - TW O4		mecoprop - 1			
assigned value [$\mu\text{g/l}$]*		0,184 \pm 0,0105			
upper tolerance limit [$\mu\text{g/l}$]		0,2357			
lower tolerance limit [$\mu\text{g/l}$]		0,1386			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
1	0,215	0,108	0,6	1,2	s
3	0,208			0,9	s
5	0,137	0,411	-0,2	-2,1	q
6	0,17	0,051	-0,5	-0,6	s
8	0,169	0,02	-1,3	-0,7	s
9	0,191	0,057	0,2	0,3	s
10	0,142	0,015	-4,6	-1,9	s
13	0,284	0,03	6,3	3,9	u
19	0,184	0,02	0,0	0,0	s
20	0,20949			1,0	s
23	0,18			-0,2	s
25	0,174	0,054	-0,4	-0,4	s
28	0,16			-1,1	s
30	0,204	0,04	1,0	0,8	s
33	0,162	0,047	-0,9	-1,0	s
34	0,19	0,039	0,3	0,2	s
36	0,209			1,0	s
38	0,173			-0,5	s
41	0,204	0,018	1,9	0,8	s
42	0,185	0,054	0,0	0,0	s
43	0,209	0,082	0,6	1,0	s
44	0,186	0,056	0,1	0,1	s
45	0,207	0,104	0,4	0,9	s
48	0,199	0,05	0,6	0,6	s
50	0,192			0,3	s
52	0,17	0,034	-0,8	-0,6	s
62	0,167	0,05	-0,7	-0,7	s
63	0,083	0,006	-16,7	-4,5	u
64	0,178			-0,3	s
65	0,198	0,069	0,4	0,5	s
71	0,178	0,037	-0,3	-0,3	s
72	0,155			-1,3	s
73	0,194	0,068	0,3	0,4	s
78	0,172	0,046	-0,5	-0,5	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



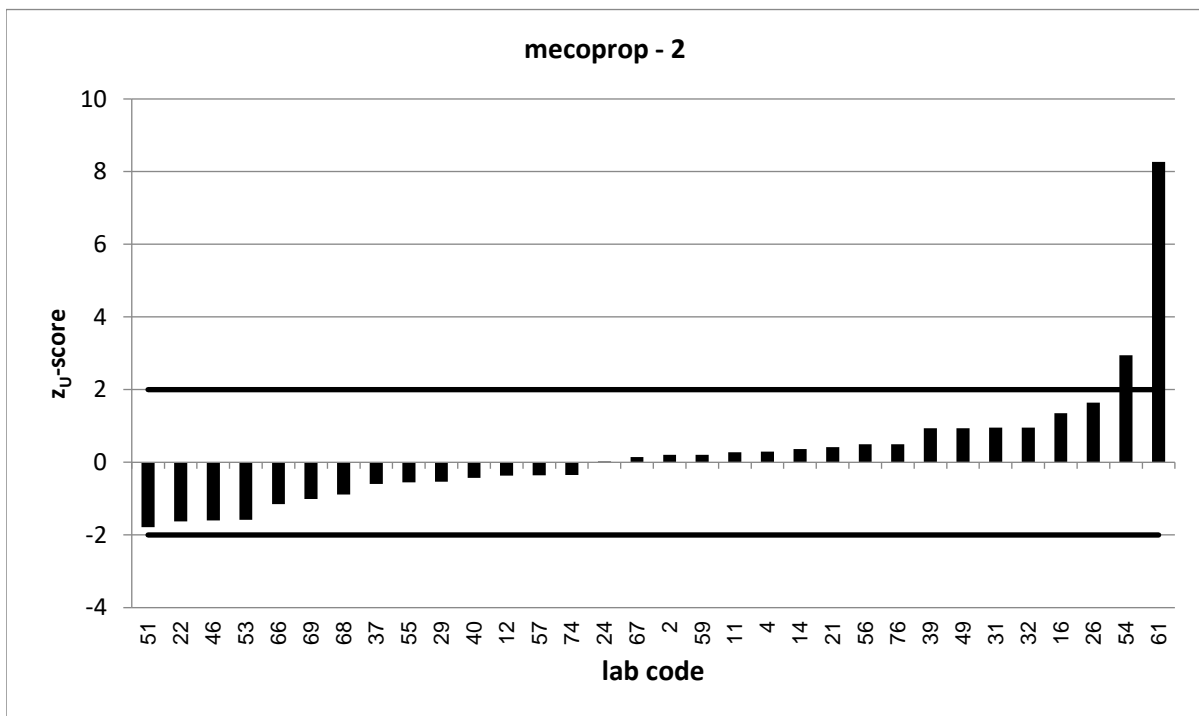
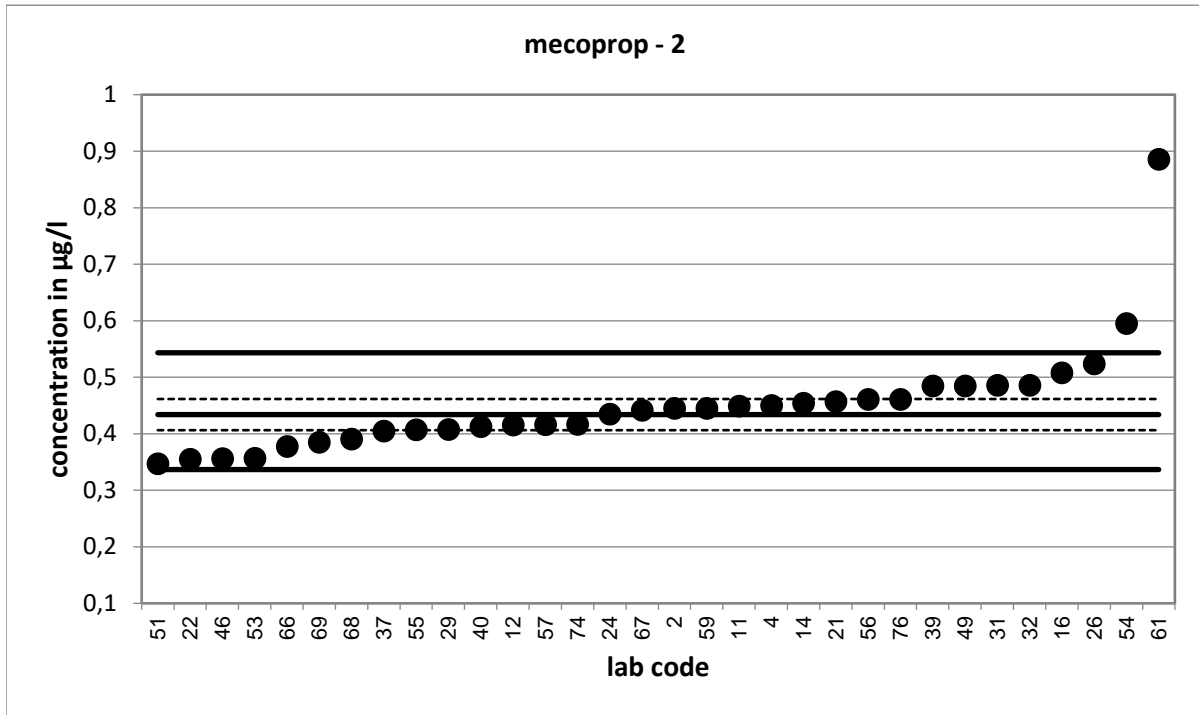


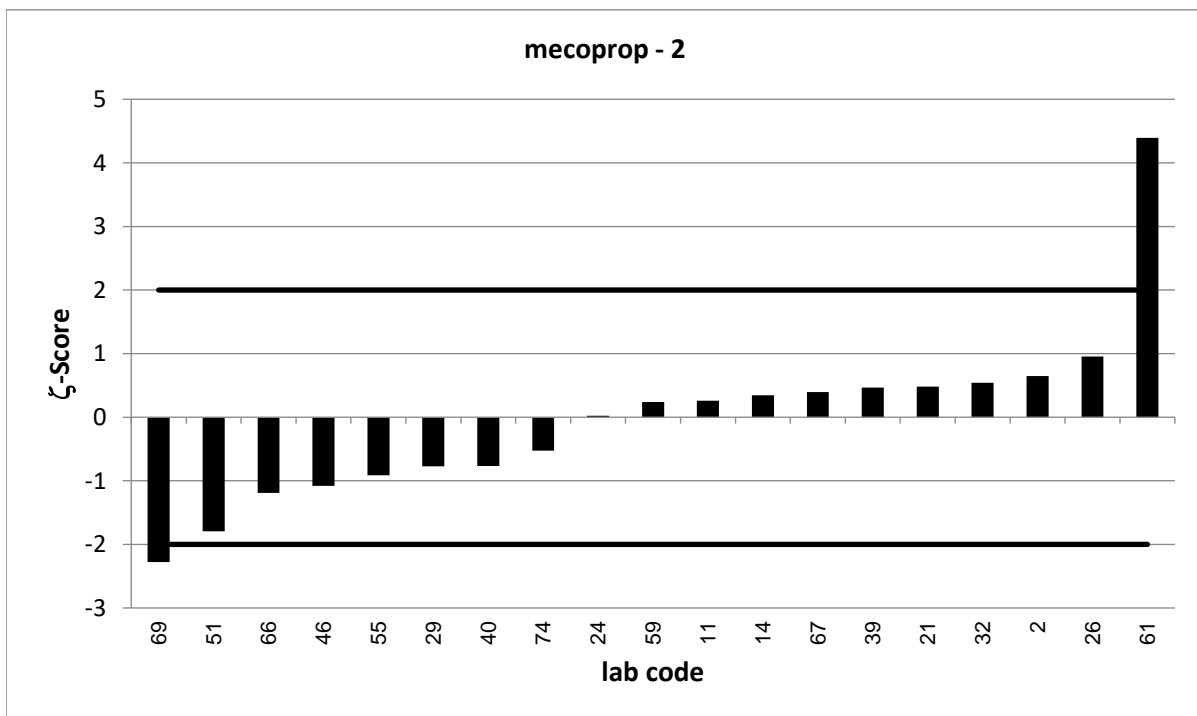
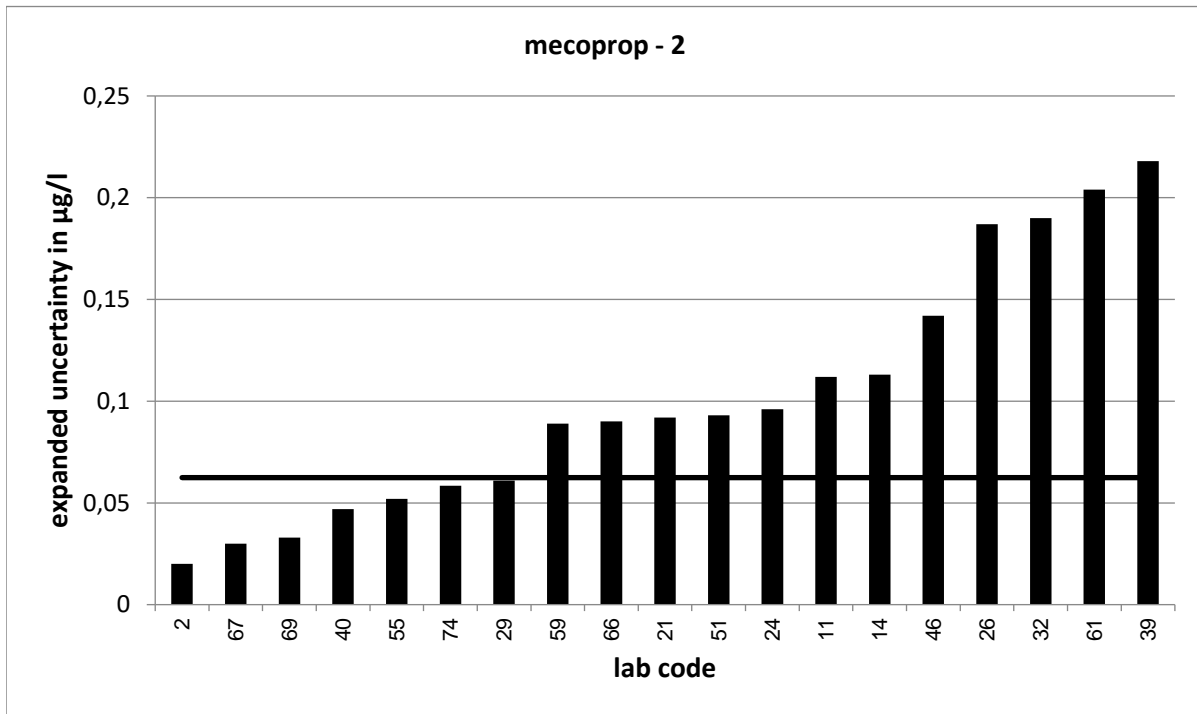
Strongly deviating values are not correctly shown in the diagram.

PT 9/24 - TW O4		mecoprop - 2			
assigned value [$\mu\text{g/l}$]*		0,4339 \pm 0,0276			
upper tolerance limit [$\mu\text{g/l}$]		0,5433			
lower tolerance limit [$\mu\text{g/l}$]		0,3367			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
2	0,445	0,02	0,6	0,2	s
4	0,45			0,3	s
11	0,449	0,112	0,3	0,3	s
12	0,416			-0,4	s
14	0,454	0,113	0,3	0,4	s
16	0,508			1,4	s
21	0,457	0,092	0,5	0,4	s
22	0,355			-1,6	s
24	0,435	0,096	0,0	0,0	s
26	0,524	0,187	1,0	1,6	s
29	0,408	0,061	-0,8	-0,5	s
31	0,486			1,0	s
32	0,486	0,19	0,5	1,0	s
37	0,405			-0,6	s
39	0,485	0,218	0,5	0,9	s
40	0,413	0,047	-0,8	-0,4	s
46	0,356	0,142	-1,1	-1,6	s
49	0,485			0,9	s
51	0,347	0,093	-1,8	-1,8	s
53	0,357			-1,6	s
54	0,595			2,9	q
55	0,407	0,052	-0,9	-0,6	s
56	0,461			0,5	s
57	0,4165			-0,4	s
59	0,445	0,089	0,2	0,2	s
61	0,886	0,204	4,4	8,3	u
66	0,378	0,09	-1,2	-1,2	s
67	0,442	0,03	0,4	0,1	s
68	0,391			-0,9	s
69	0,385	0,033	-2,3	-1,0	s
74	0,417	0,058	-0,5	-0,3	s
76	0,461			0,5	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory

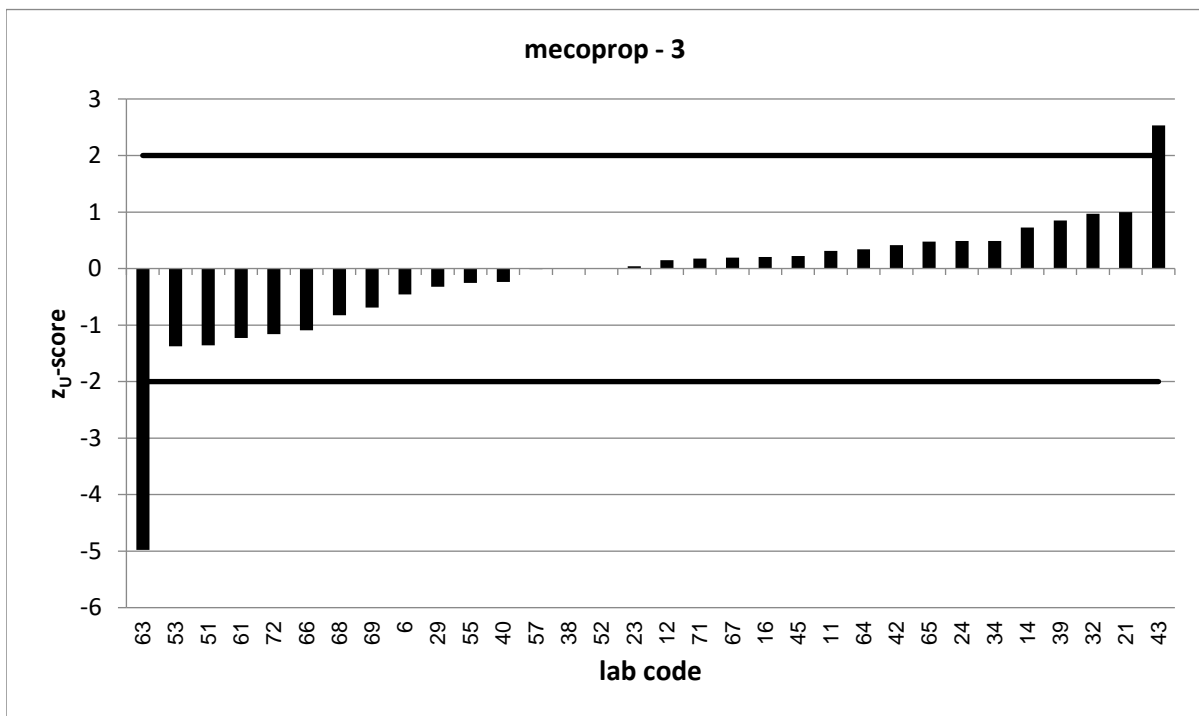
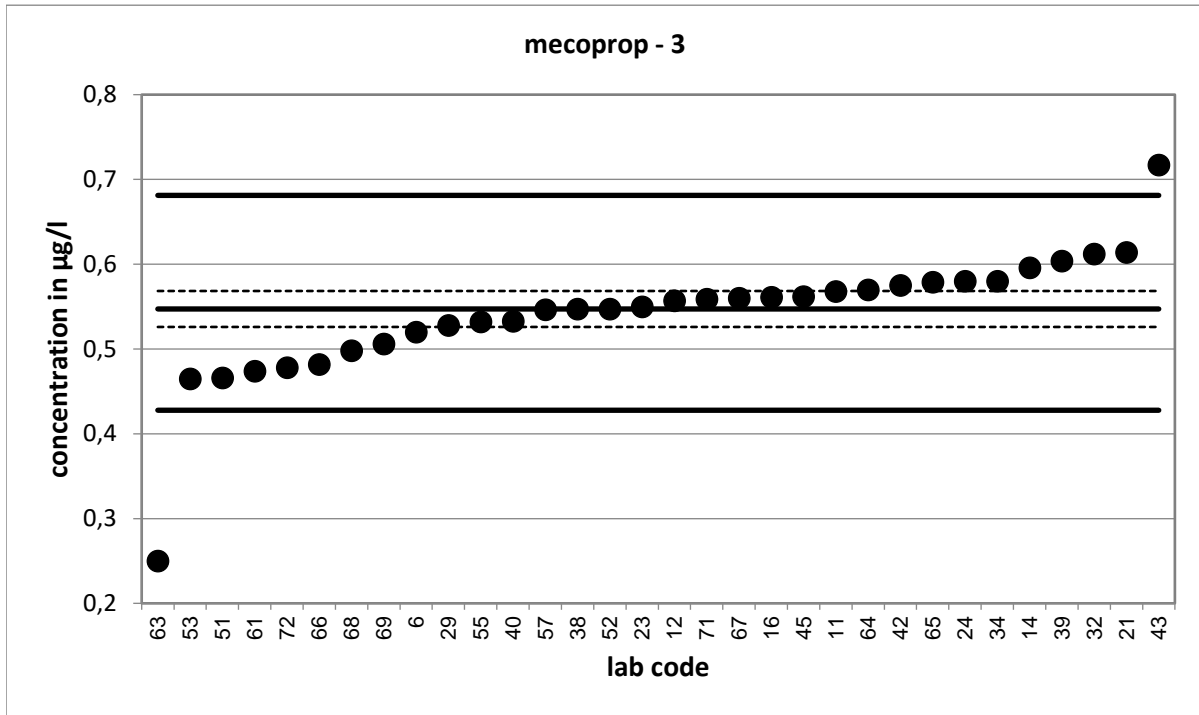


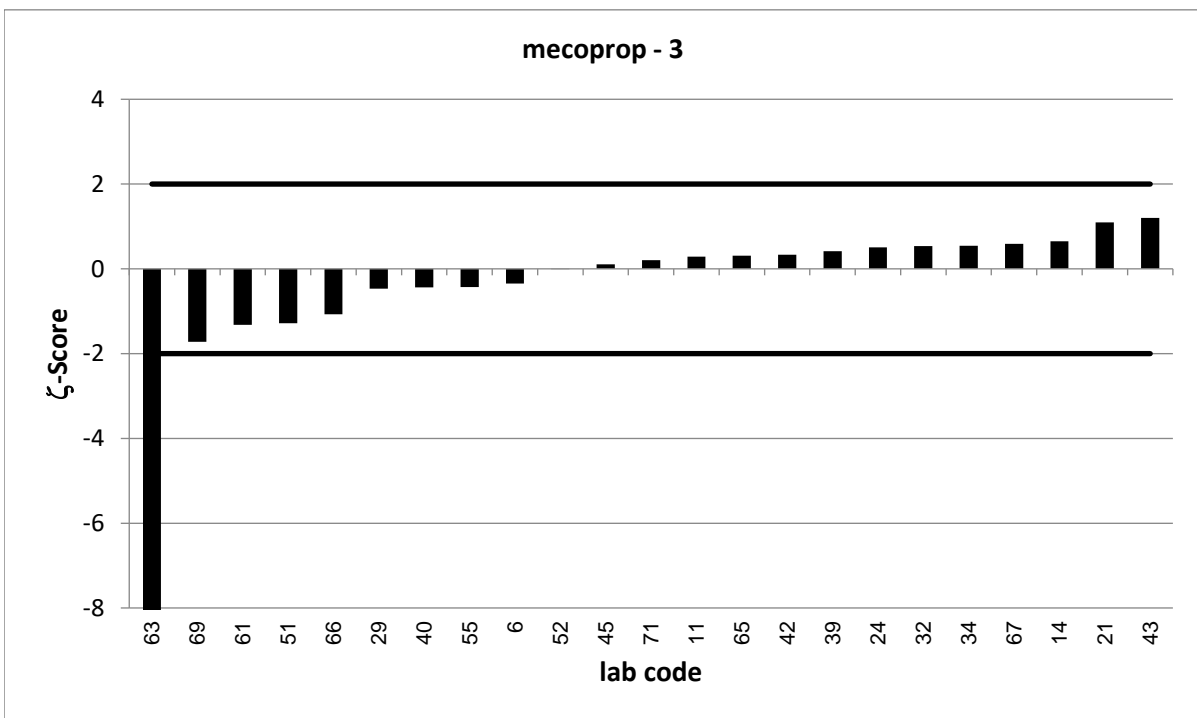
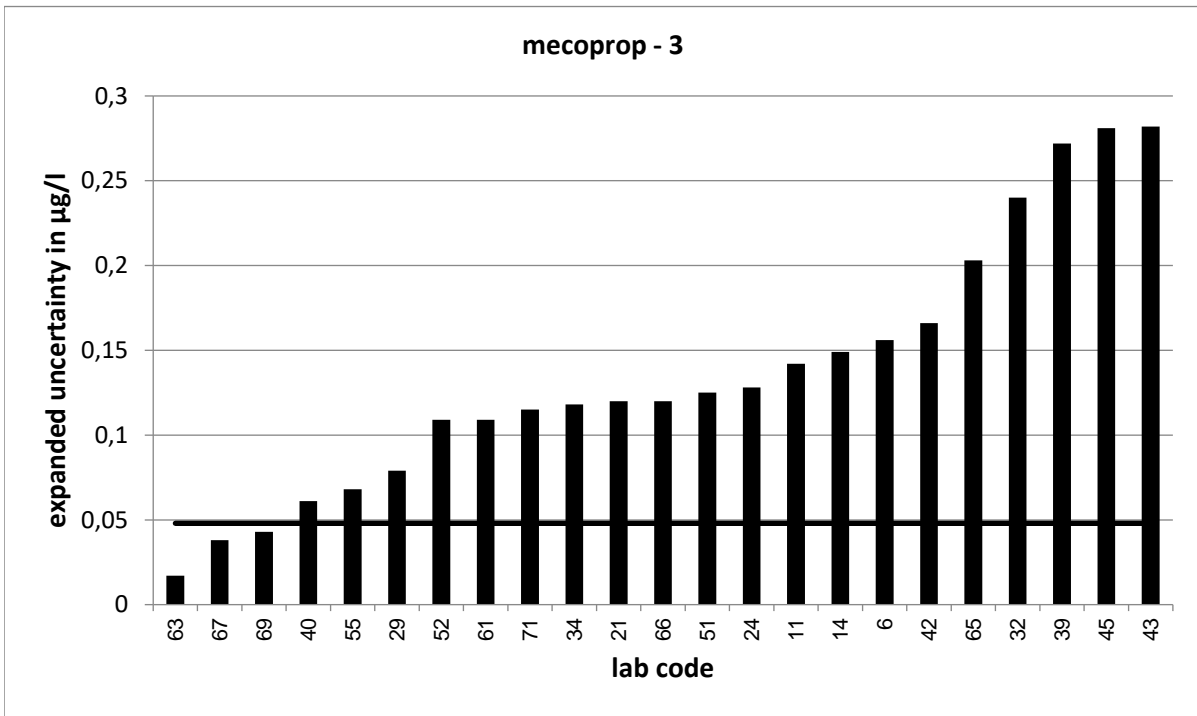


PT 9/24 - TW O4		mecoprop - 3			
assigned value [$\mu\text{g/l}$]*		0,5472 \pm 0,0212			
upper tolerance limit [$\mu\text{g/l}$]		0,6812			
lower tolerance limit [$\mu\text{g/l}$]		0,4278			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
6	0,52	0,156	-0,3	-0,5	s
11	0,568	0,142	0,3	0,3	s
12	0,557			0,1	s
14	0,596	0,149	0,6	0,7	s
16	0,561			0,2	s
21	0,614	0,12	1,1	1,0	s
23	0,55			0,0	s
24	0,58	0,128	0,5	0,5	s
29	0,528	0,079	-0,5	-0,3	s
32	0,612	0,24	0,5	1,0	s
34	0,58	0,118	0,5	0,5	s
38	0,547			0,0	s
39	0,604	0,272	0,4	0,8	s
40	0,533	0,061	-0,4	-0,2	s
42	0,575	0,166	0,3	0,4	s
43	0,717	0,282	1,2	2,5	q
45	0,562	0,281	0,1	0,2	s
51	0,466	0,125	-1,3	-1,4	s
52	0,547	0,109	0,0	0,0	s
53	0,465			-1,4	s
55	0,532	0,068	-0,4	-0,3	s
57	0,5466			0,0	s
61	0,474	0,109	-1,3	-1,2	s
63	0,25	0,017	-21,9	-5,0	u
64	0,57			0,3	s
65	0,579	0,203	0,3	0,5	s
66	0,482	0,12	-1,1	-1,1	s
67	0,56	0,038	0,6	0,2	s
68	0,498			-0,8	s
69	0,506	0,043	-1,7	-0,7	s
71	0,559	0,115	0,2	0,2	s
72	0,478			-1,2	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



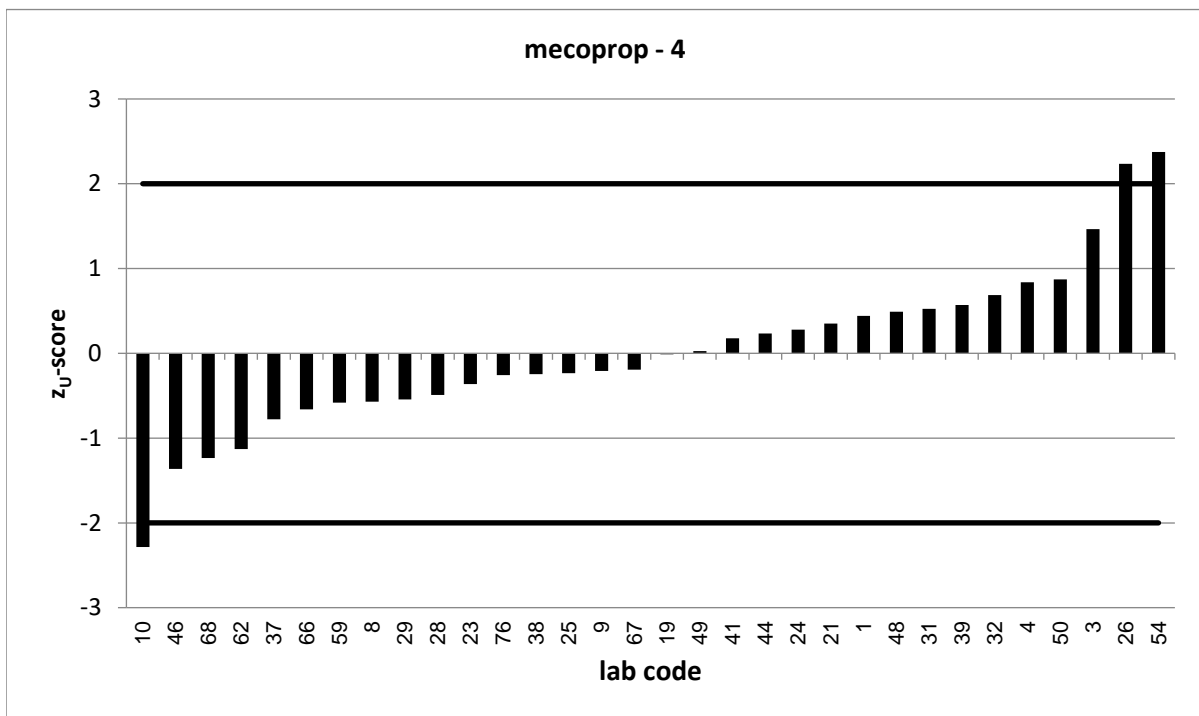
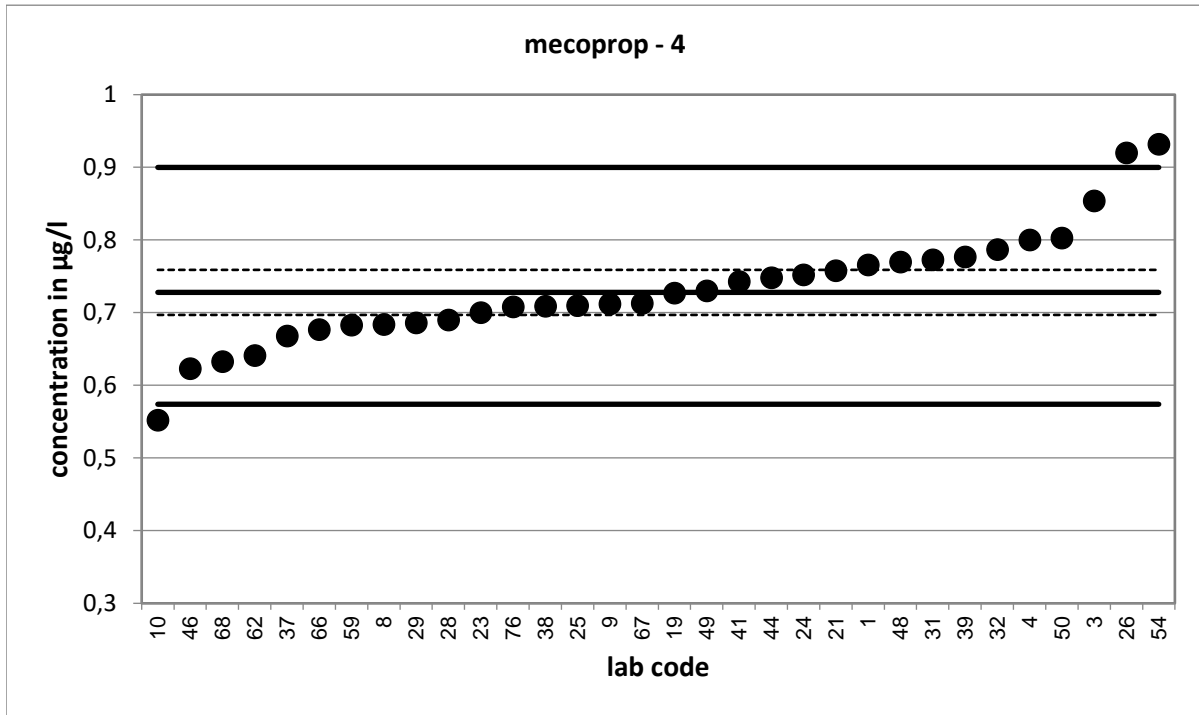


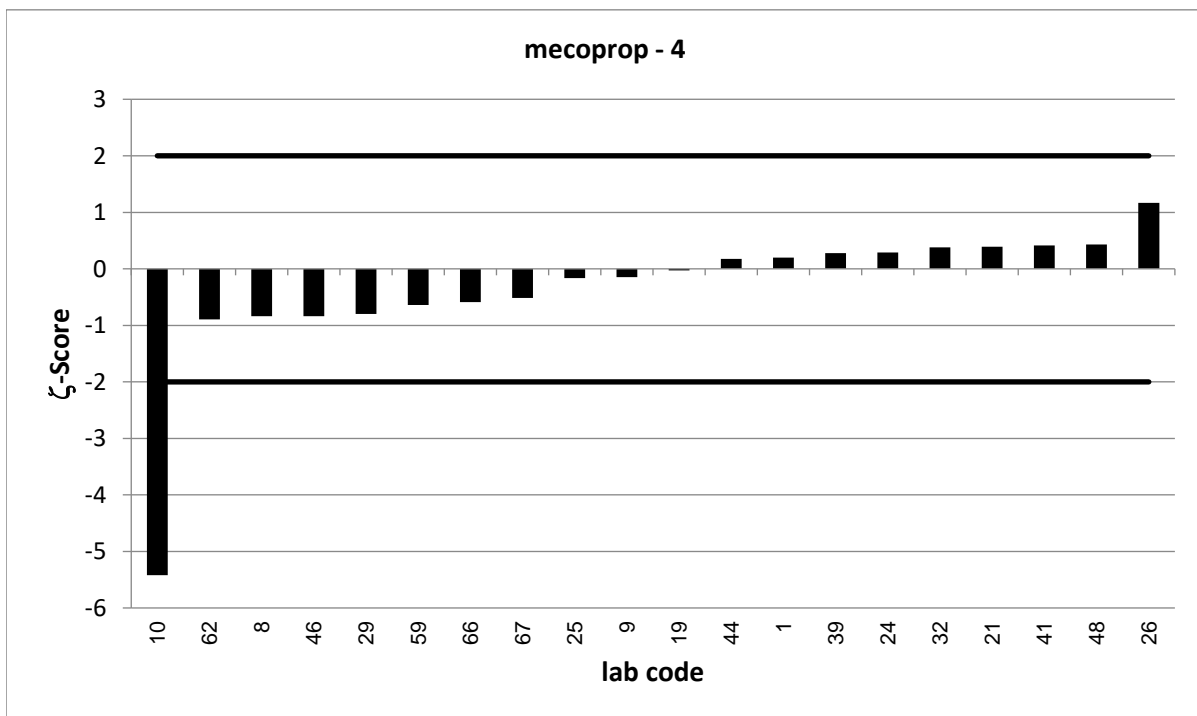
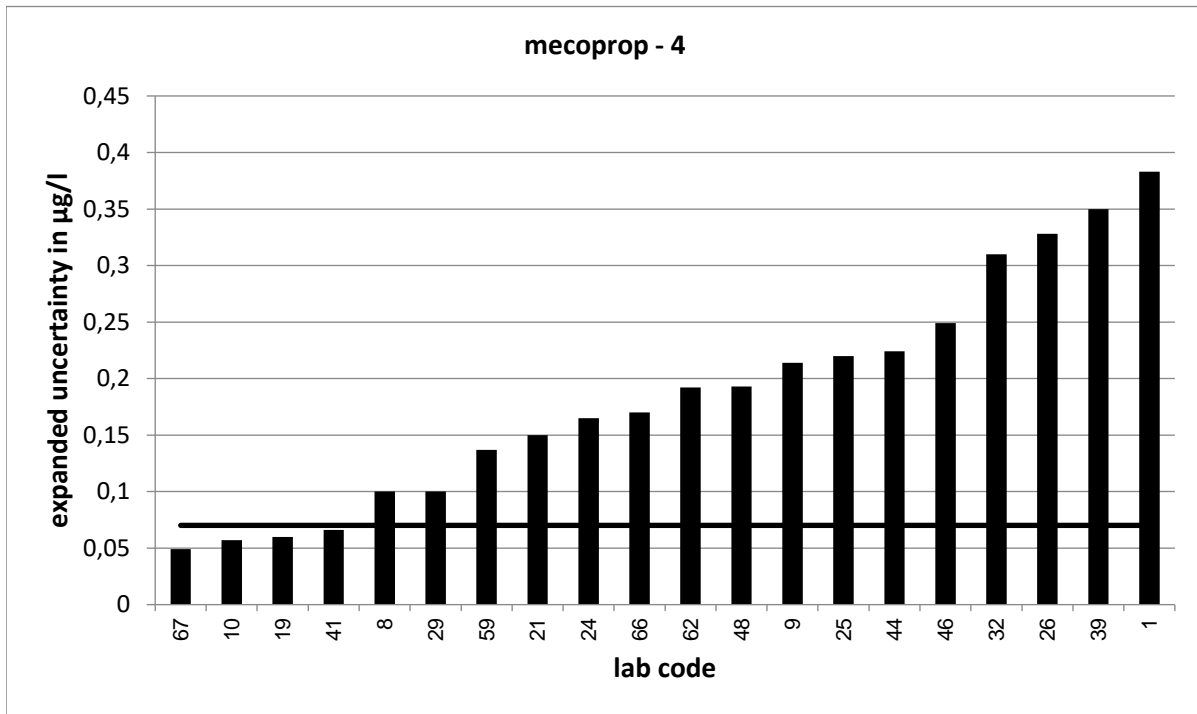
Strongly deviating values are not correctly shown in the diagram.

PT 9/24 - TW O4		mecoprop - 4			
assigned value [$\mu\text{g/l}$]*		0,7279 \pm 0,031			
upper tolerance limit [$\mu\text{g/l}$]		0,8999			
lower tolerance limit [$\mu\text{g/l}$]		0,574			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
1	0,766	0,383	0,2	0,4	s
3	0,854			1,5	s
4	0,8			0,8	s
8	0,684	0,1	-0,8	-0,6	s
9	0,712	0,214	-0,1	-0,2	s
10	0,552	0,057	-5,4	-2,3	q
19	0,727	0,06	0,0	0,0	s
21	0,758	0,15	0,4	0,4	s
23	0,7			-0,4	s
24	0,752	0,165	0,3	0,3	s
25	0,71	0,22	-0,2	-0,2	s
26	0,92	0,328	1,2	2,2	q
28	0,69			-0,5	s
29	0,686	0,1	-0,8	-0,5	s
31	0,773			0,5	s
32	0,787	0,31	0,4	0,7	s
37	0,668			-0,8	s
38	0,709			-0,2	s
39	0,777	0,35	0,3	0,6	s
41	0,743	0,066	0,4	0,2	s
44	0,748	0,224	0,2	0,2	s
46	0,623	0,249	-0,8	-1,4	s
48	0,77	0,193	0,4	0,5	s
49	0,73			0,0	s
50	0,803			0,9	s
54	0,932			2,4	q
59	0,683	0,137	-0,6	-0,6	s
62	0,641	0,192	-0,9	-1,1	s
66	0,677	0,17	-0,6	-0,7	s
67	0,713	0,049	-0,5	-0,2	s
68	0,633			-1,2	s
76	0,708			-0,3	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory

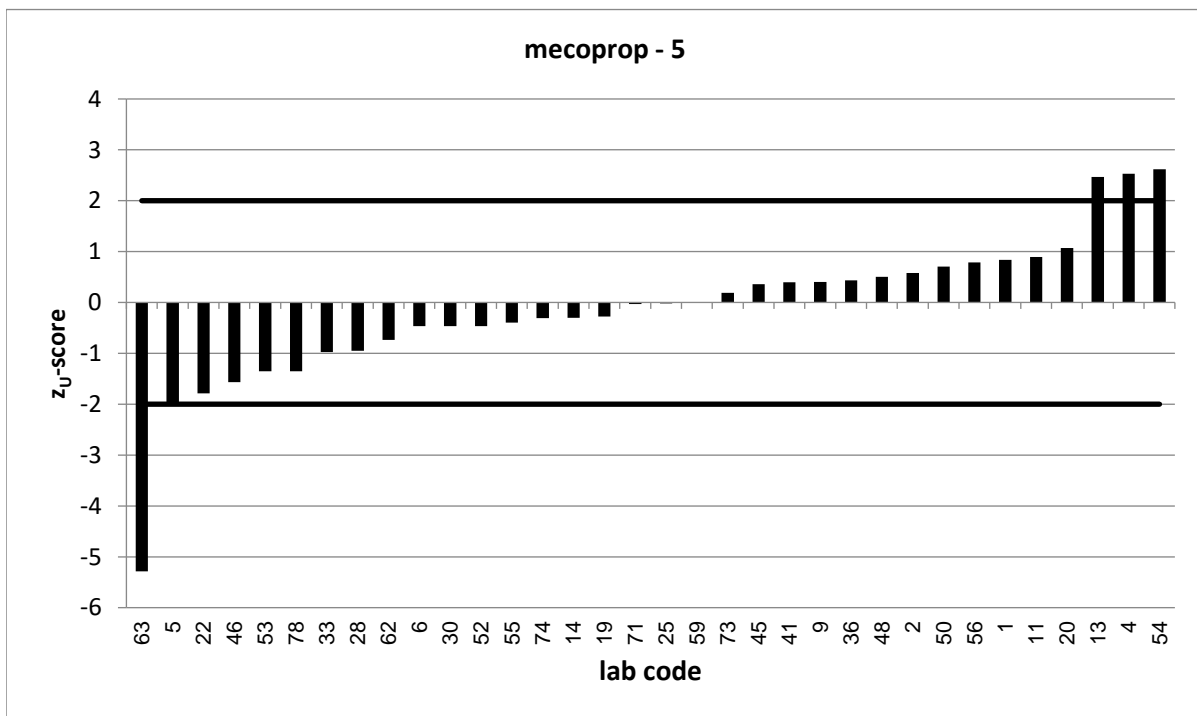
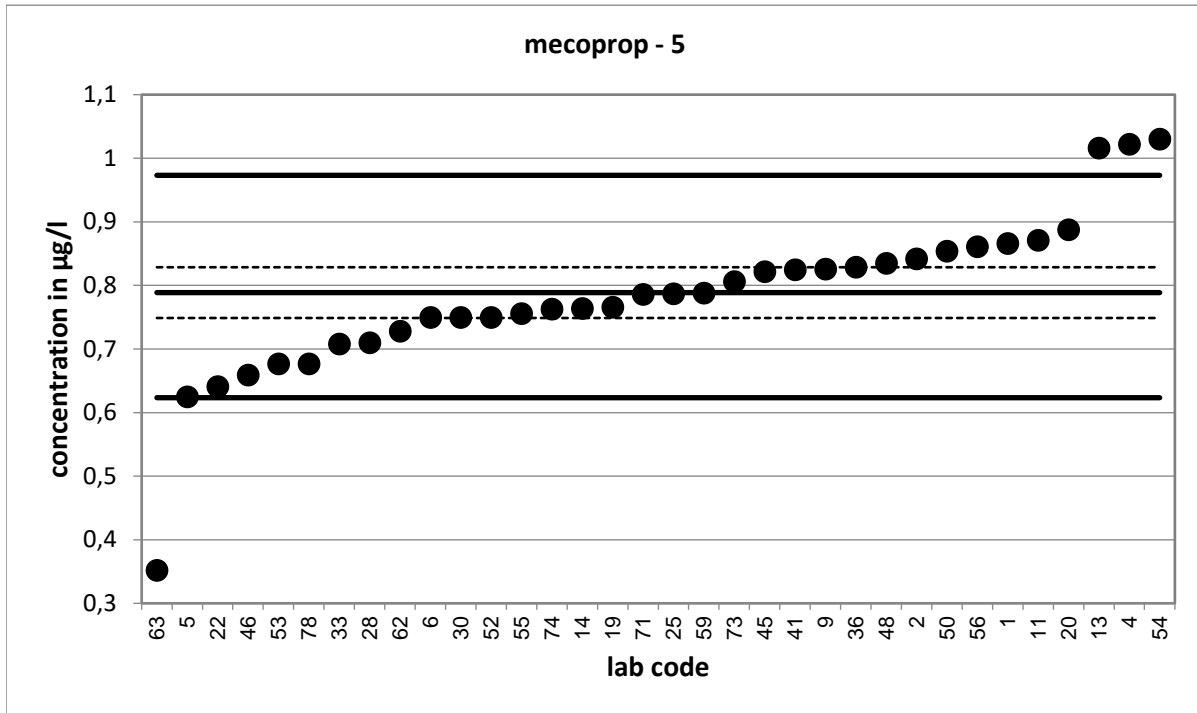


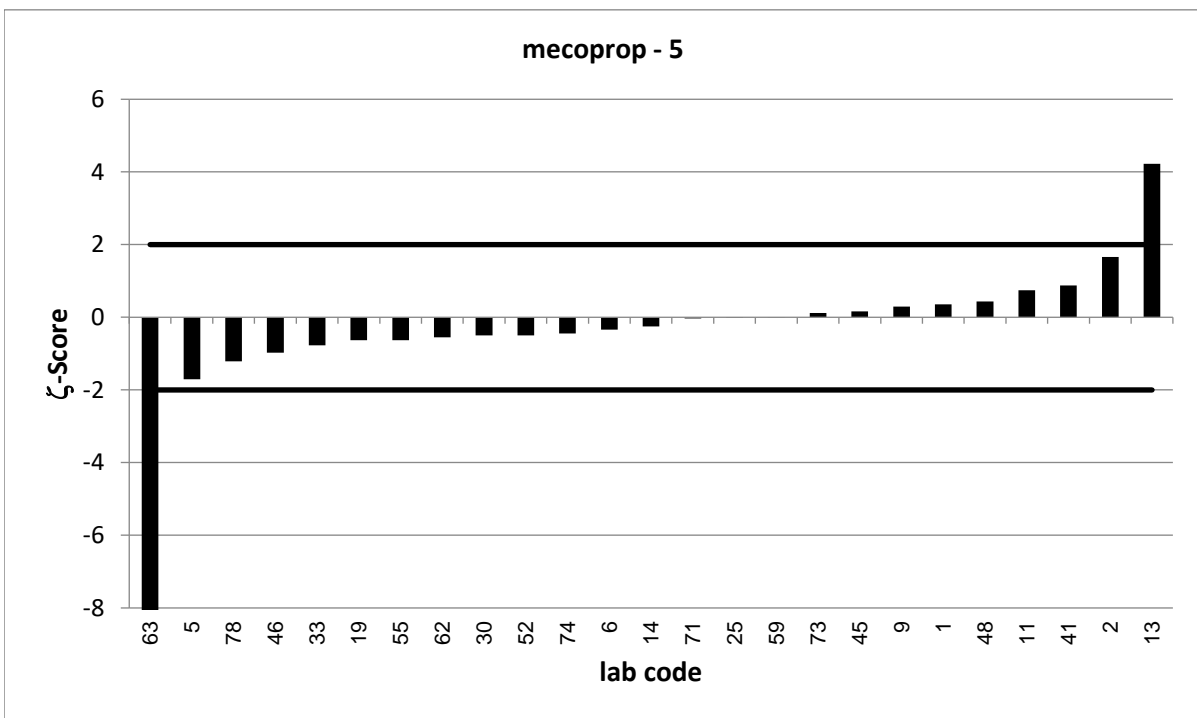
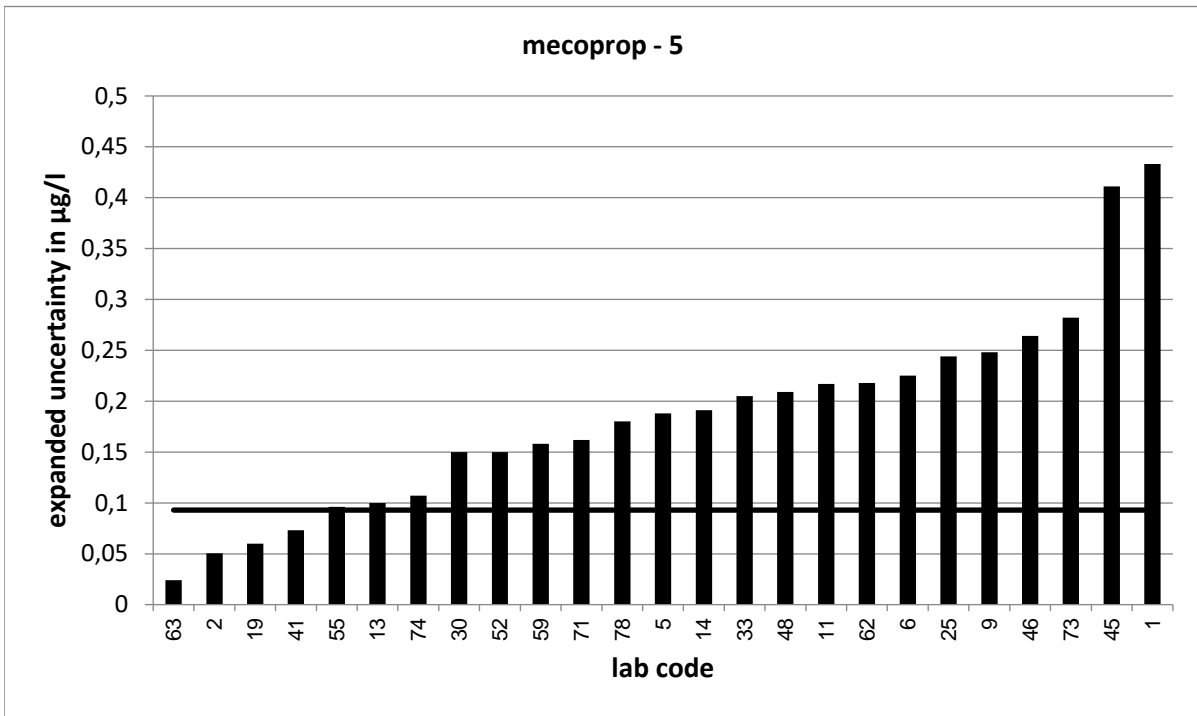


PT 9/24 - TW O4		mecoprop - 5			
assigned value [$\mu\text{g/l}$]*		0,7887 \pm 0,0399			
upper tolerance limit [$\mu\text{g/l}$]		0,9731			
lower tolerance limit [$\mu\text{g/l}$]		0,6234			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
1	0,866	0,433	0,4	0,8	s
2	0,842	0,05	1,7	0,6	s
4	1,022			2,5	q
5	0,625	0,188	-1,7	-2,0	s
6	0,75	0,225	-0,3	-0,5	s
9	0,826	0,248	0,3	0,4	s
11	0,871	0,217	0,7	0,9	s
13	1,016	0,1	4,2	2,5	q
14	0,764	0,191	-0,3	-0,3	s
19	0,766	0,06	-0,6	-0,3	s
20	0,88766			1,1	s
22	0,641			-1,8	s
25	0,787	0,244	0,0	0,0	s
28	0,71			-1,0	s
30	0,75	0,15	-0,5	-0,5	s
33	0,708	0,205	-0,8	-1,0	s
36	0,829			0,4	s
41	0,825	0,073	0,9	0,4	s
45	0,822	0,411	0,2	0,4	s
46	0,659	0,264	-1,0	-1,6	s
48	0,835	0,209	0,4	0,5	s
50	0,854			0,7	s
52	0,75	0,15	-0,5	-0,5	s
53	0,677			-1,4	s
54	1,03			2,6	q
55	0,756	0,096	-0,6	-0,4	s
56	0,861			0,8	s
59	0,788	0,158	0,0	0,0	s
62	0,728	0,218	-0,5	-0,7	s
63	0,352	0,024	-18,8	-5,3	u
71	0,786	0,162	0,0	0,0	s
73	0,806	0,282	0,1	0,2	s
74	0,763	0,107	-0,4	-0,3	s
78	0,677	0,18	-1,2	-1,4	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



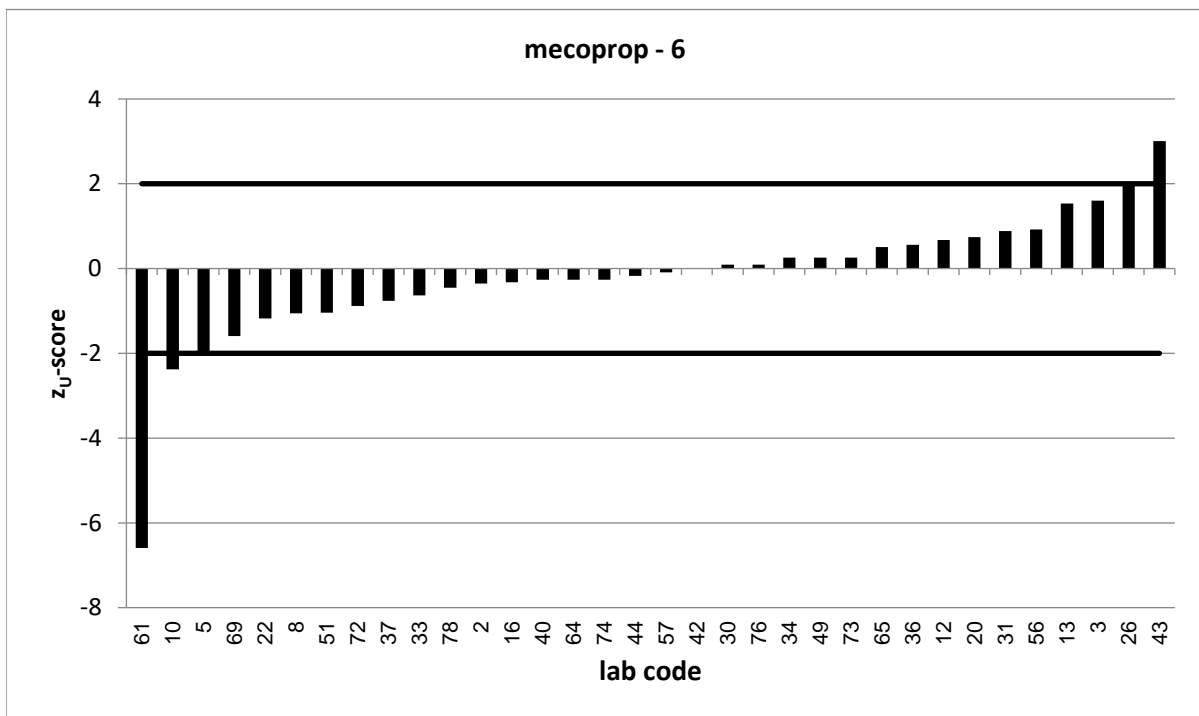
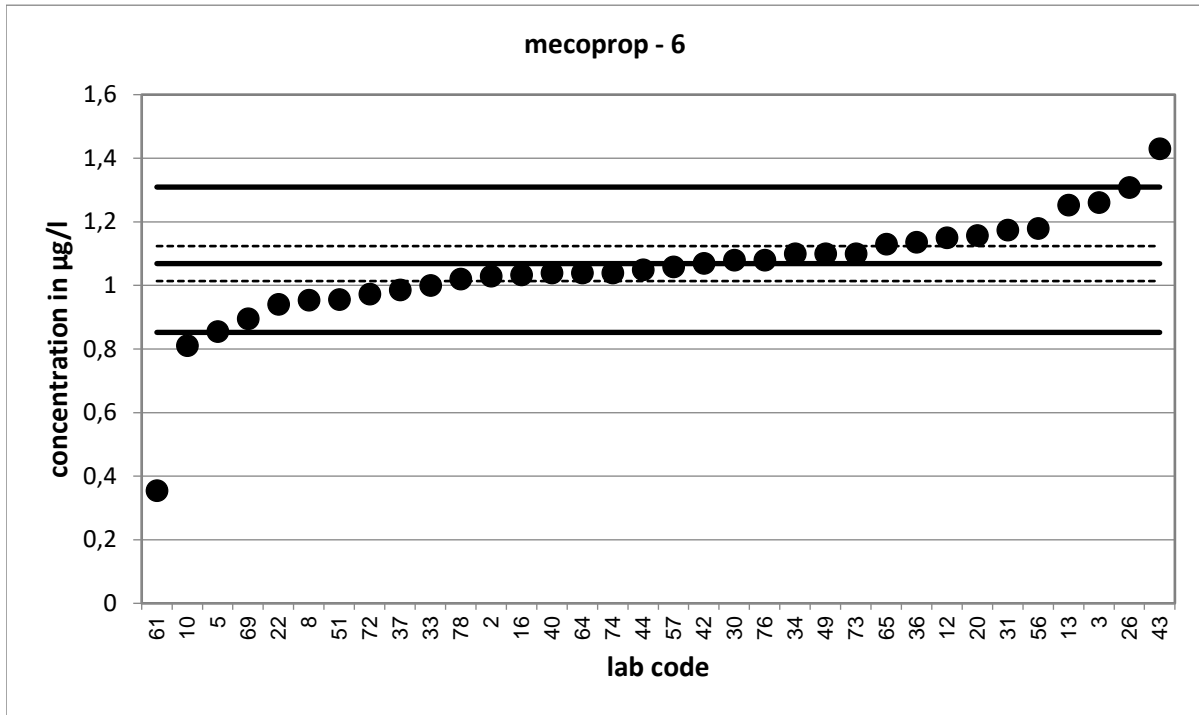


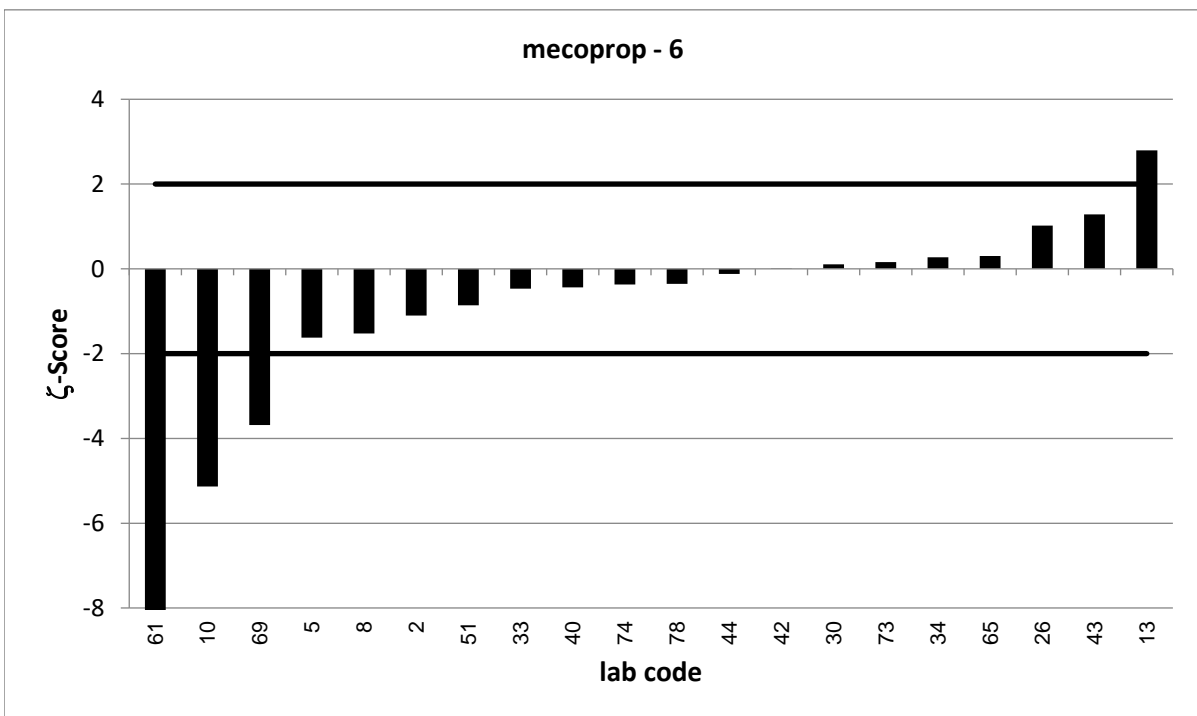
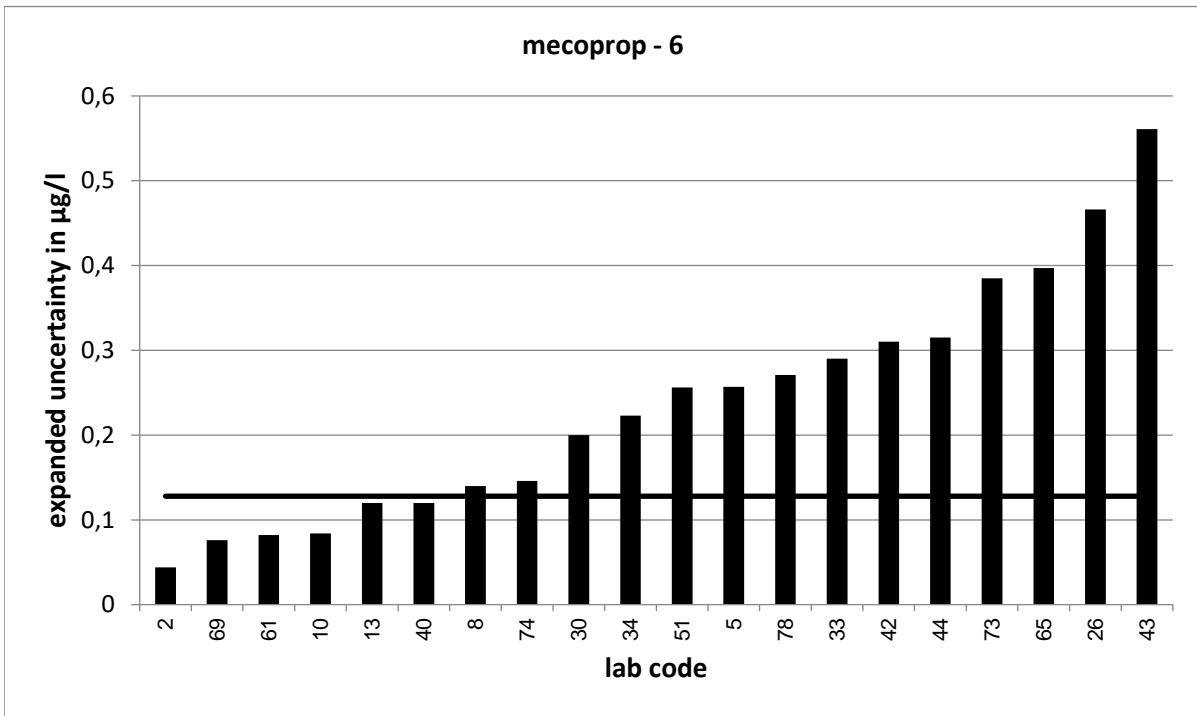
Strongly deviating values are not correctly shown in the diagram.

PT 9/24 - TW O4		mecoprop - 6			
assigned value [$\mu\text{g/l}$]*		1,069 \pm 0,055			
upper tolerance limit [$\mu\text{g/l}$]		1,309			
lower tolerance limit [$\mu\text{g/l}$]		0,8522			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
2	1,03	0,044	-1,1	-0,4	s
3	1,261			1,6	s
5	0,855	0,257	-1,6	-2,0	s
8	0,954	0,14	-1,5	-1,1	s
10	0,811	0,084	-5,1	-2,4	q
12	1,15			0,7	s
13	1,253	0,12	2,8	1,5	s
16	1,034			-0,3	s
20	1,15742			0,7	s
22	0,941			-1,2	s
26	1,308	0,466	1,0	2,0	s
30	1,08	0,2	0,1	0,1	s
31	1,175			0,9	s
33	1	0,29	-0,5	-0,6	s
34	1,1	0,223	0,3	0,3	s
36	1,136			0,6	s
37	0,986			-0,8	s
40	1,04	0,12	-0,4	-0,3	s
42	1,07	0,31	0,0	0,0	s
43	1,43	0,561	1,3	3,0	u
44	1,05	0,315	-0,1	-0,2	s
49	1,1			0,3	s
51	0,956	0,256	-0,9	-1,0	s
56	1,18			0,9	s
57	1,059			-0,1	s
61	0,355	0,082	-14,5	-6,6	u
64	1,04			-0,3	s
65	1,13	0,397	0,3	0,5	s
69	0,896	0,076	-3,7	-1,6	s
72	0,973			-0,9	s
73	1,1	0,385	0,2	0,3	s
74	1,04	0,146	-0,4	-0,3	s
76	1,08			0,1	s
78	1,02	0,271	-0,4	-0,4	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



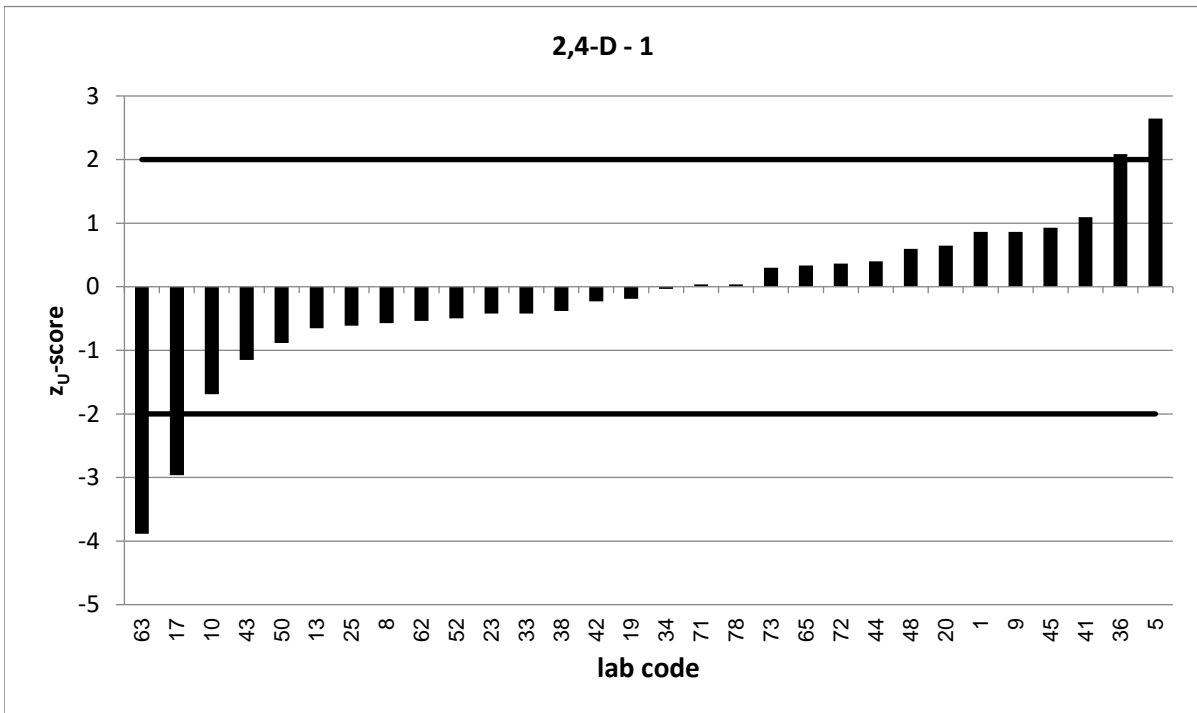
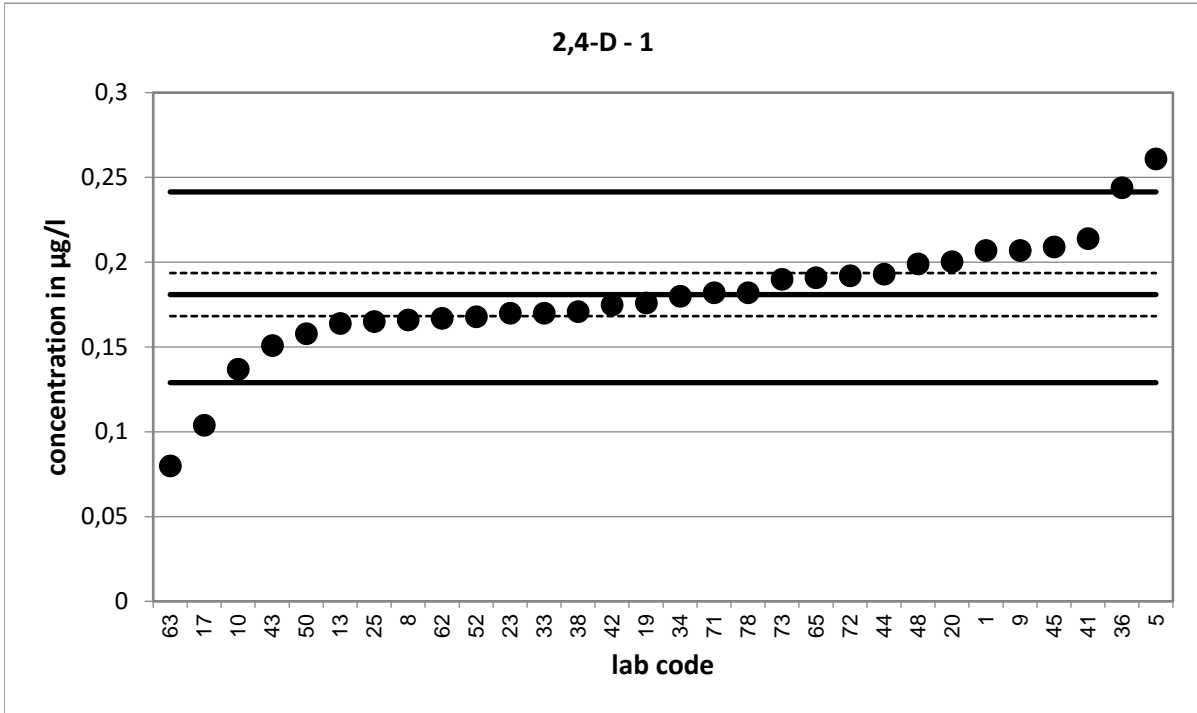


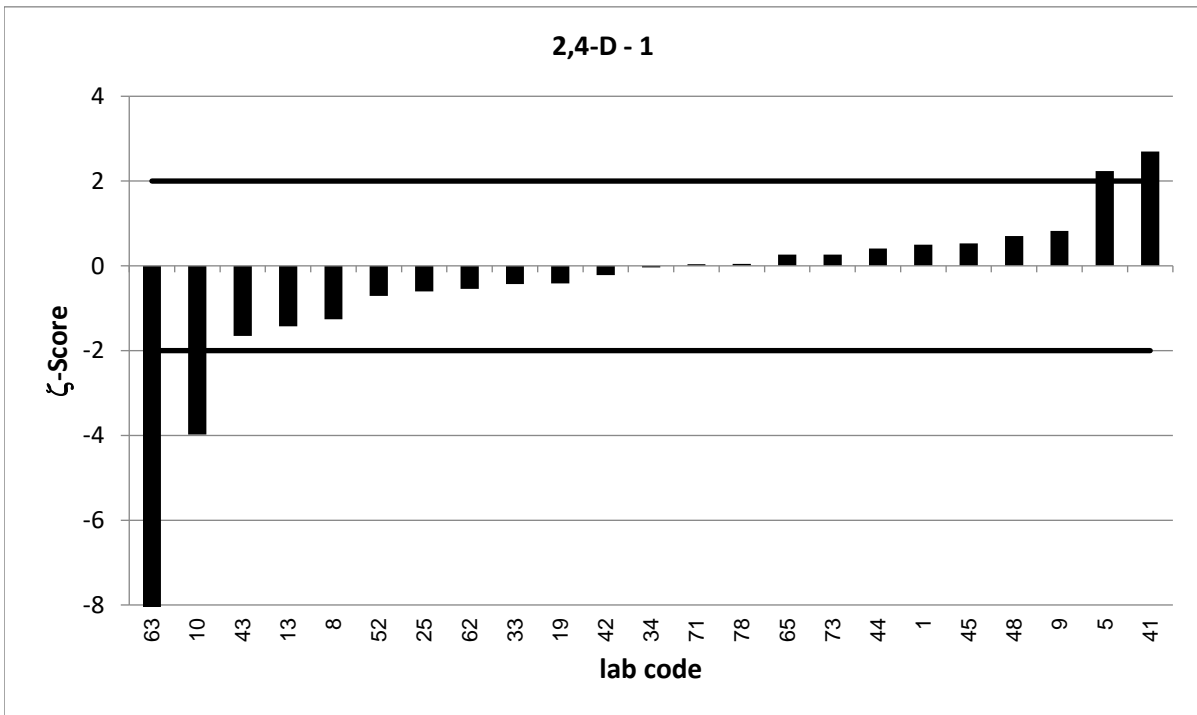
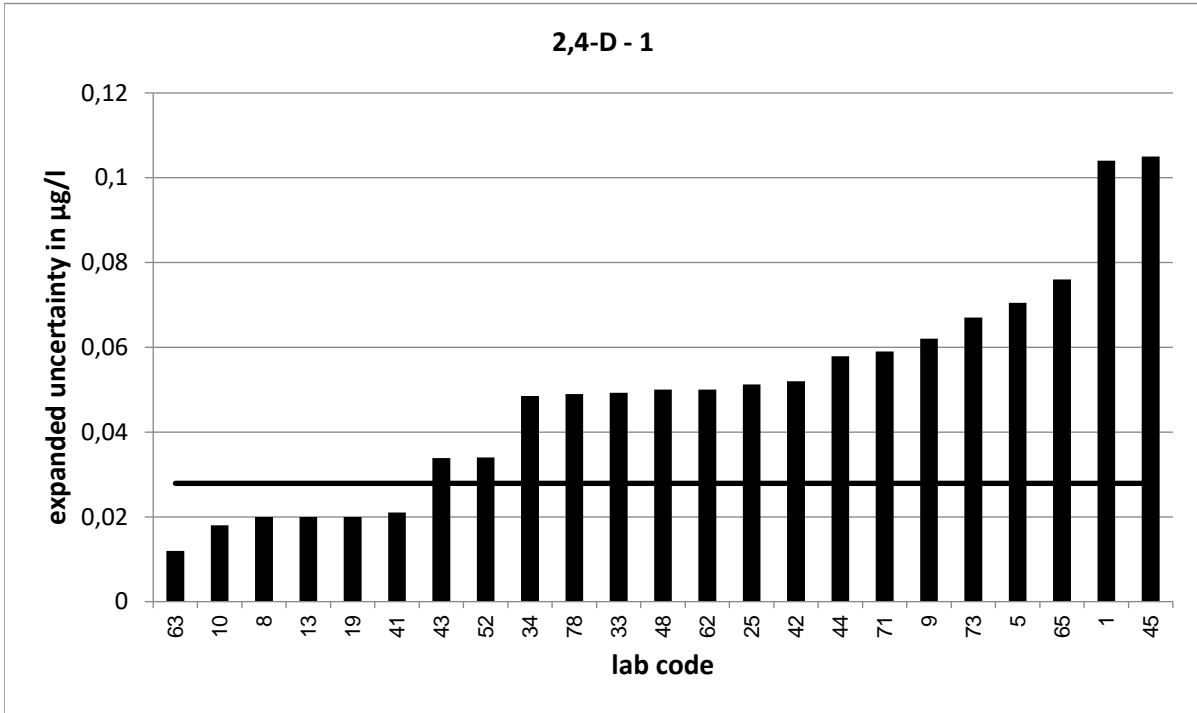
Strongly deviating values are not correctly shown in the diagram.

PT 9/24 - TW O4		2,4-D - 1			
assigned value [$\mu\text{g/l}$]*		0,1809 \pm 0,0127			
upper tolerance limit [$\mu\text{g/l}$]		0,2415			
lower tolerance limit [$\mu\text{g/l}$]		0,129			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
1	0,207	0,104	0,5	0,9	s
5	0,261	0,071	2,2	2,6	q
8	0,166	0,02	-1,3	-0,6	s
9	0,207	0,062	0,8	0,9	s
10	0,137	0,018	-4,0	-1,7	s
13	0,164	0,02	-1,4	-0,7	s
17	0,104			-3,0	u
19	0,176	0,02	-0,4	-0,2	s
20	0,20047			0,6	s
23	0,17			-0,4	s
25	0,165	0,051	-0,6	-0,6	s
33	0,17	0,049	-0,4	-0,4	s
34	0,18	0,049	0,0	0,0	s
36	0,244			2,1	q
38	0,171			-0,4	s
41	0,214	0,021	2,7	1,1	s
42	0,175	0,052	-0,2	-0,2	s
43	0,151	0,034	-1,7	-1,2	s
44	0,193	0,058	0,4	0,4	s
45	0,209	0,105	0,5	0,9	s
48	0,199	0,05	0,7	0,6	s
50	0,158			-0,9	s
52	0,168	0,034	-0,7	-0,5	s
62	0,167	0,05	-0,5	-0,5	s
63	0,08	0,012	-11,5	-3,9	u
65	0,191	0,076	0,3	0,3	s
71	0,182	0,059	0,0	0,0	s
72	0,192			0,4	s
73	0,19	0,067	0,3	0,3	s
78	0,182	0,049	0,0	0,0	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



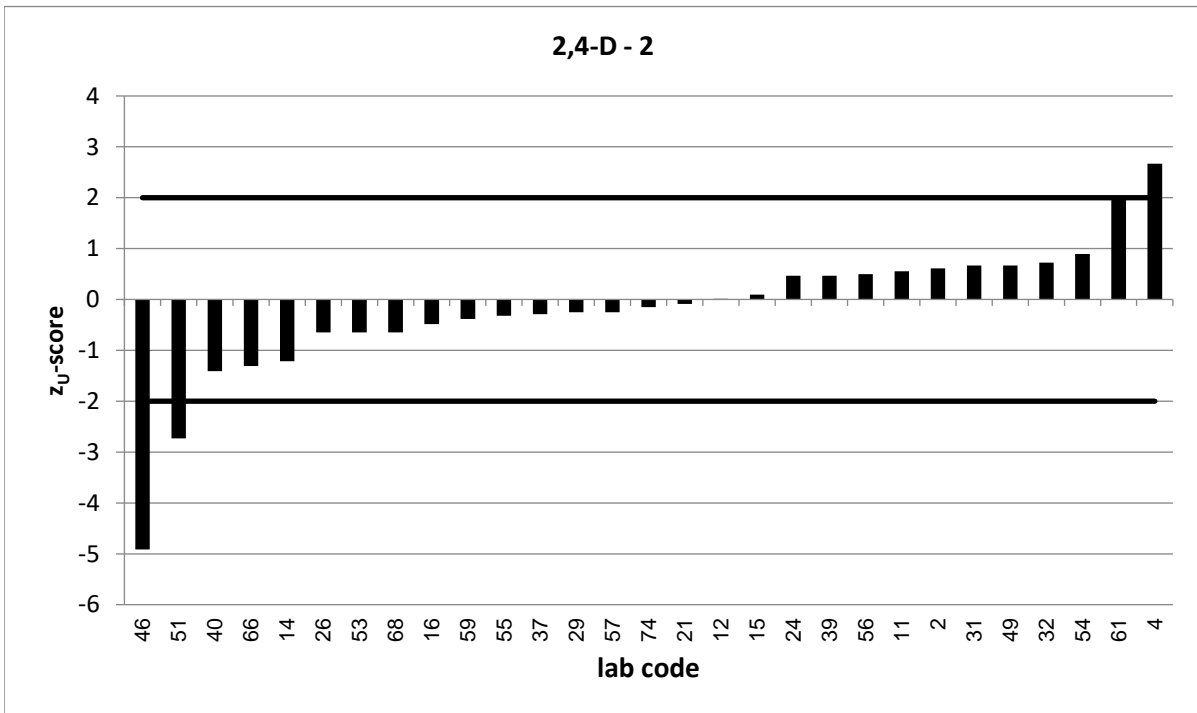
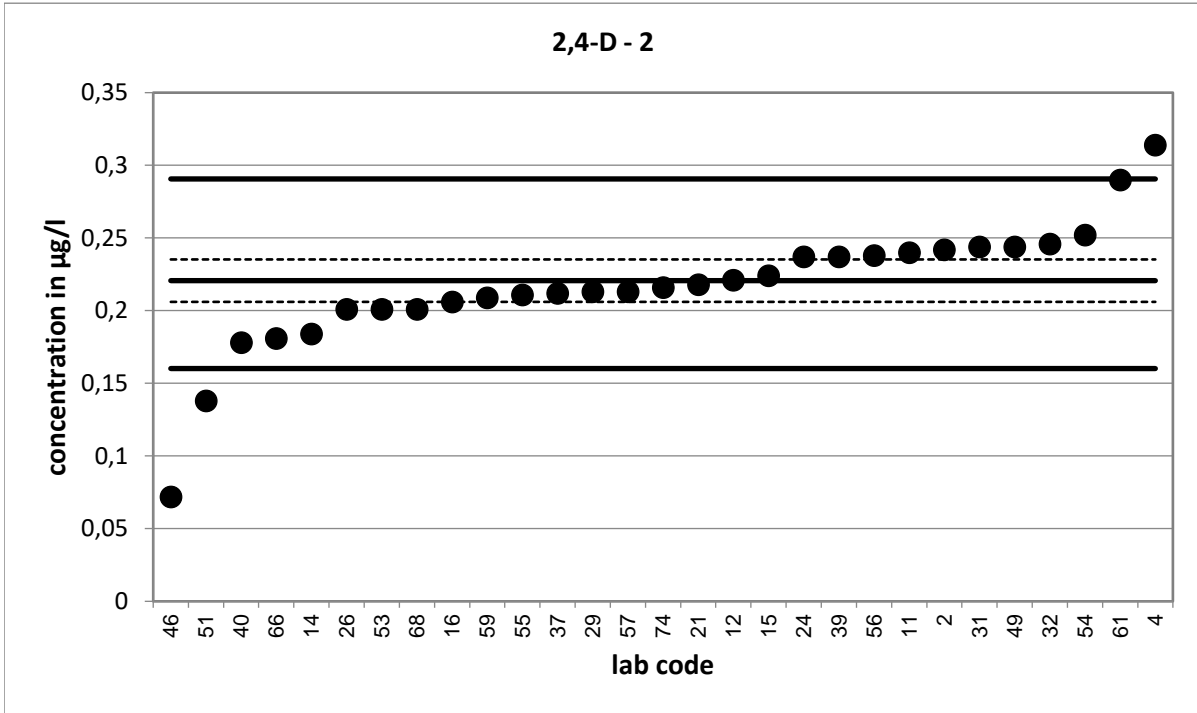


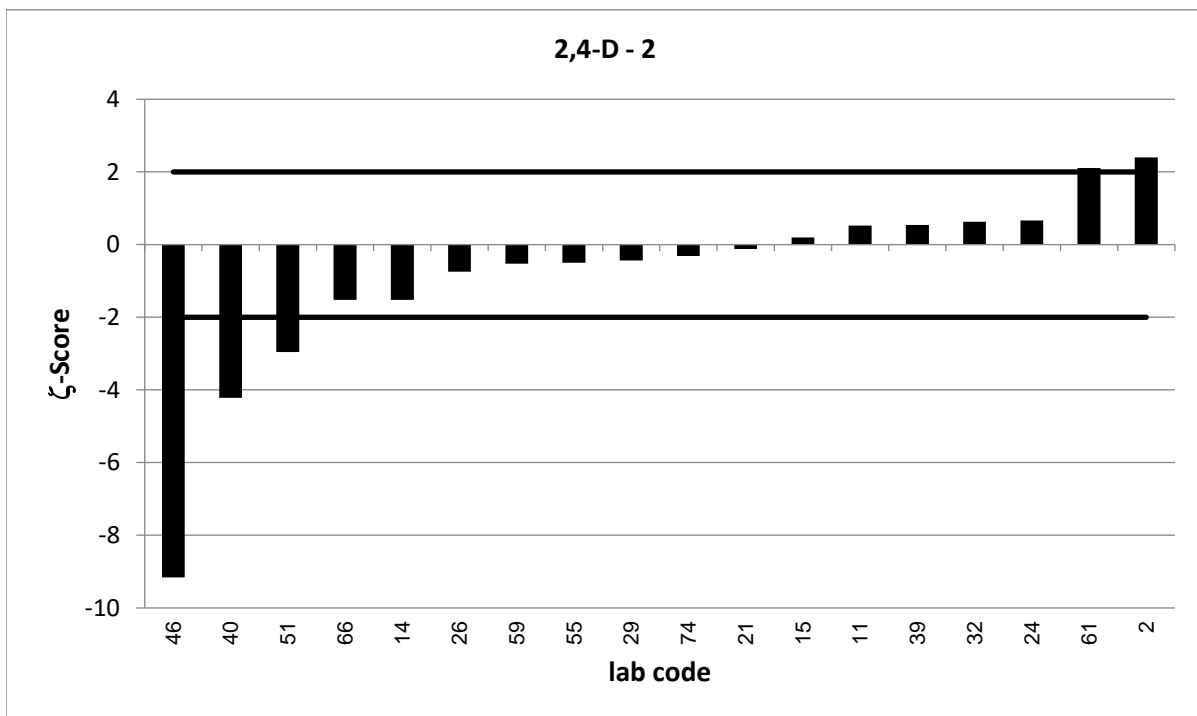
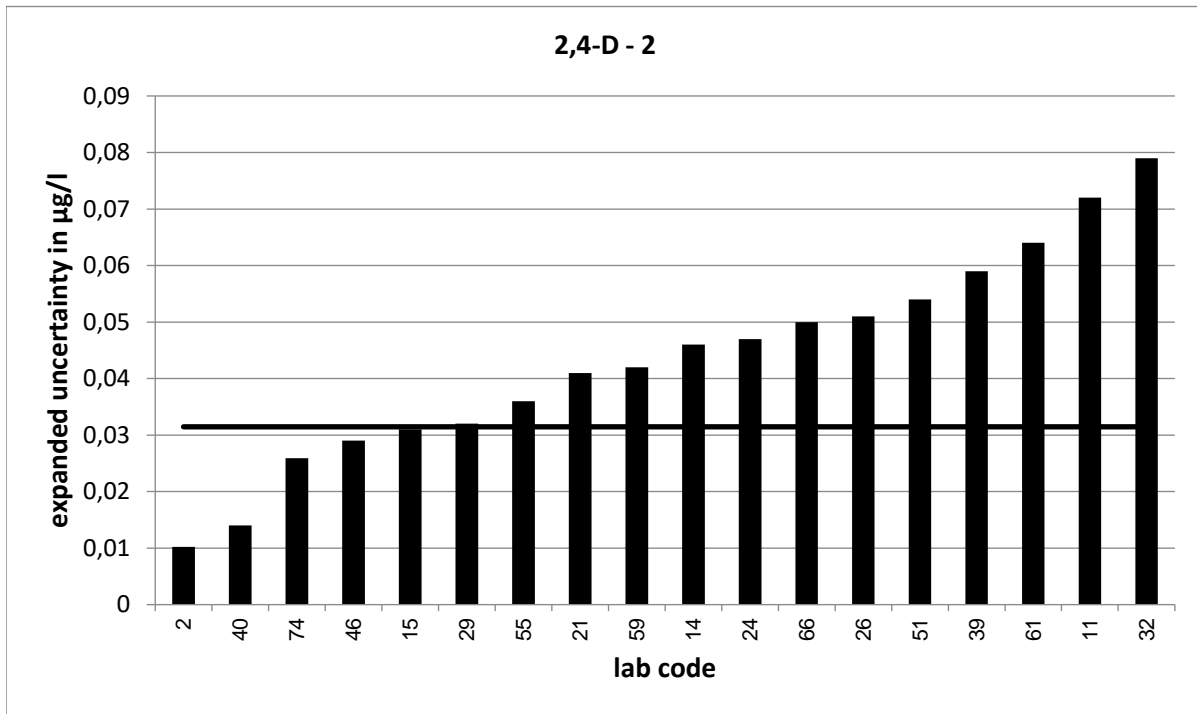
Strongly deviating values are not correctly shown in the diagram.

PT 9/24 - TW O4		2,4-D - 2			
assigned value [$\mu\text{g/l}$]*		0,2207 \pm 0,0146			
upper tolerance limit [$\mu\text{g/l}$]		0,2906			
lower tolerance limit [$\mu\text{g/l}$]		0,1602			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
2	0,242	0,01	2,4	0,6	s
4	0,314			2,7	q
11	0,24	0,072	0,5	0,6	s
12	0,221			0,0	s
14	0,184	0,046	-1,5	-1,2	s
15	0,224	0,031	0,2	0,1	s
16	0,206			-0,5	s
21	0,218	0,041	-0,1	-0,1	s
24	0,237	0,047	0,7	0,5	s
26	0,201	0,051	-0,7	-0,6	s
29	0,213	0,032	-0,4	-0,3	s
31	0,244			0,7	s
32	0,246	0,079	0,6	0,7	s
37	0,212			-0,3	s
39	0,237	0,059	0,5	0,5	s
40	0,178	0,014	-4,2	-1,4	s
46	0,072	0,029	-9,2	-4,9	u
49	0,244			0,7	s
51	0,138	0,054	-3,0	-2,7	q
53	0,201			-0,6	s
54	0,252			0,9	s
55	0,211	0,036	-0,5	-0,3	s
56	0,238			0,5	s
57	0,2131			-0,2	s
59	0,209	0,042	-0,5	-0,4	s
61	0,29	0,064	2,1	2,0	s
66	0,181	0,05	-1,5	-1,3	s
68	0,201			-0,6	s
74	0,216	0,026	-0,3	-0,2	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory

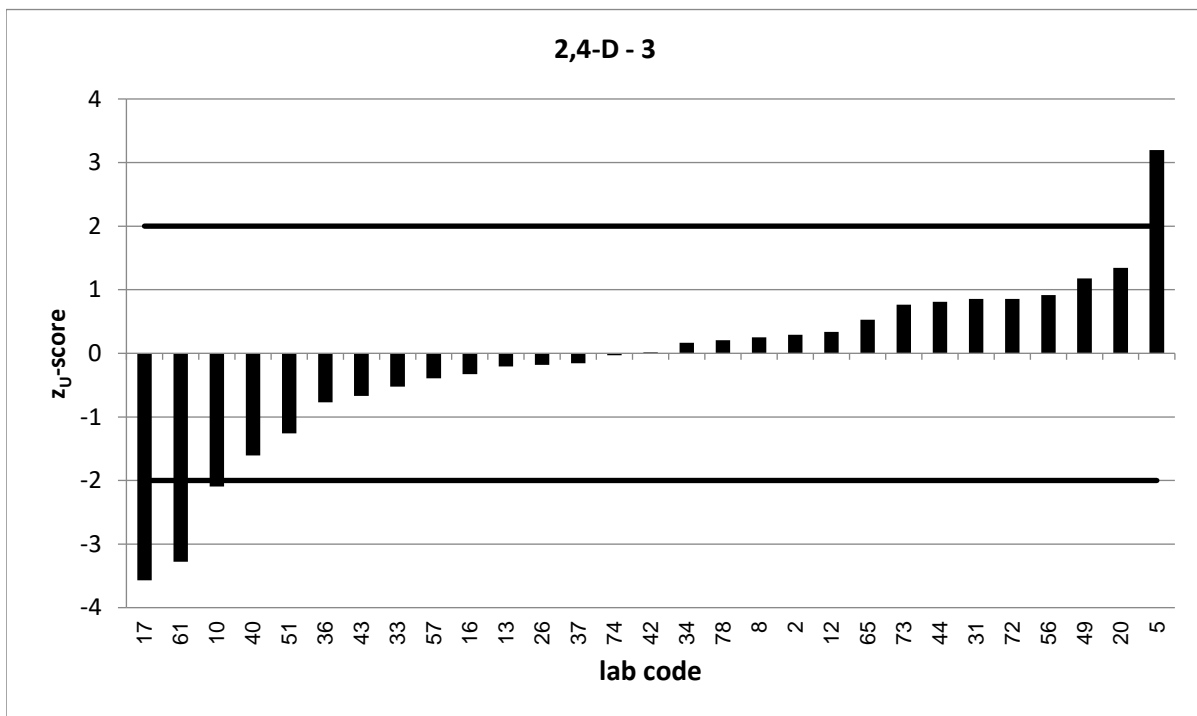
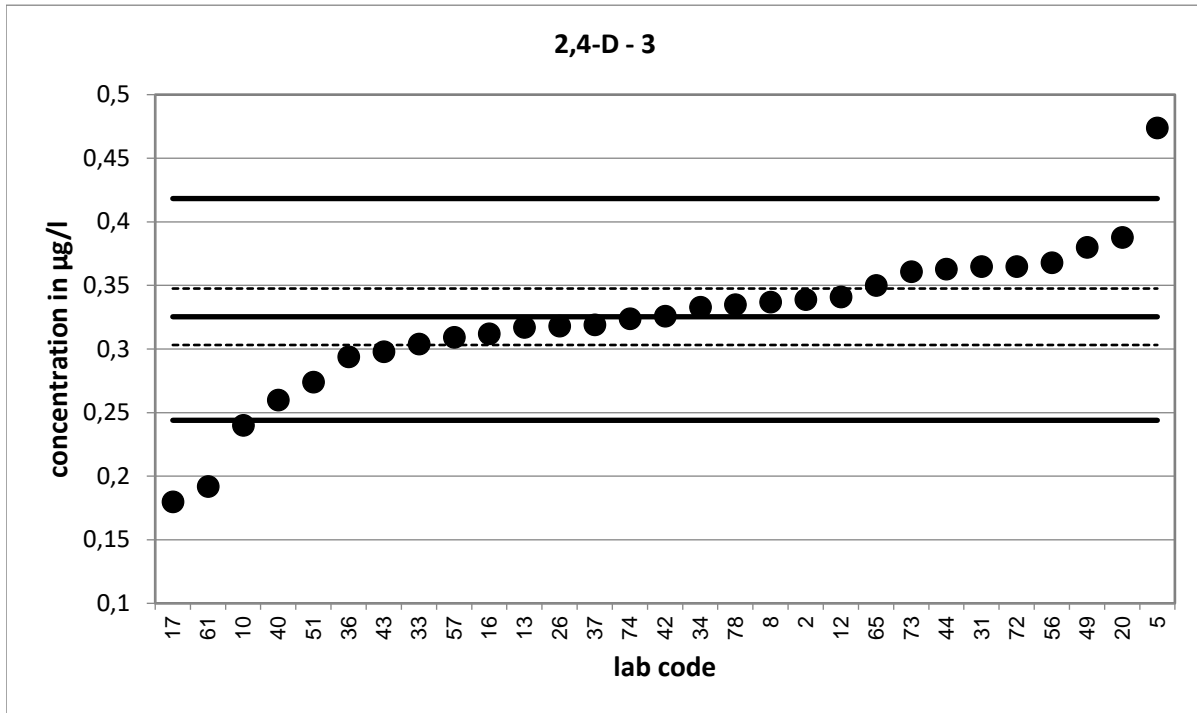


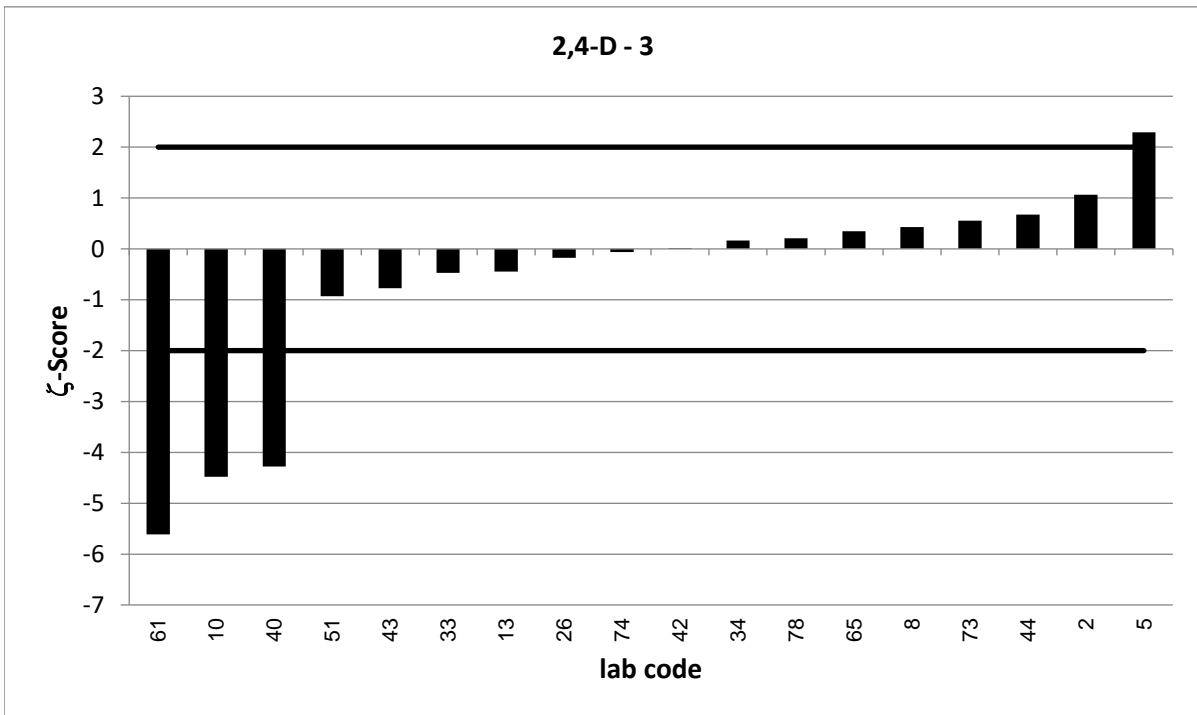
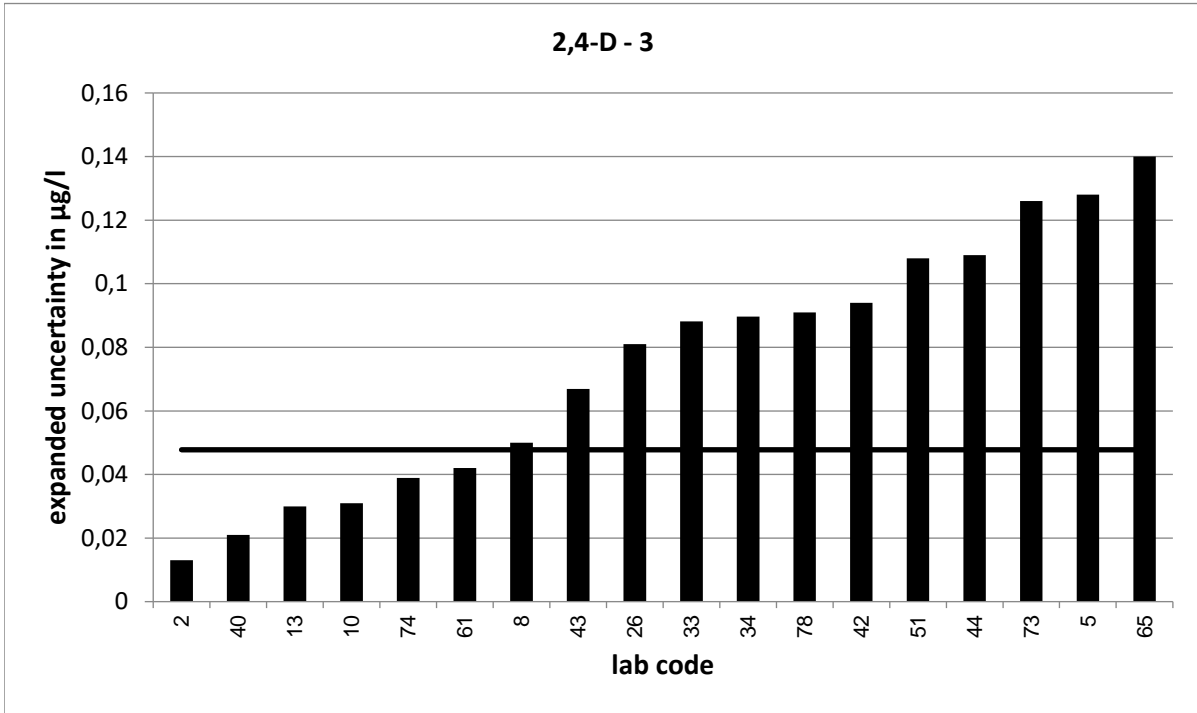


PT 9/24 - TW O4		2,4-D - 3			
assigned value [$\mu\text{g/l}$]*		0,3253 \pm 0,0222			
upper tolerance limit [$\mu\text{g/l}$]		0,4183			
lower tolerance limit [$\mu\text{g/l}$]		0,2439			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
2	0,339	0,013	1,1	0,3	s
5	0,474	0,128	2,3	3,2	u
8	0,337	0,05	0,4	0,3	s
10	0,24	0,031	-4,5	-2,1	q
12	0,341			0,3	s
13	0,317	0,03	-0,4	-0,2	s
16	0,312			-0,3	s
17	0,18			-3,6	u
20	0,38788			1,3	s
26	0,318	0,081	-0,2	-0,2	s
31	0,365			0,9	s
33	0,304	0,088	-0,5	-0,5	s
34	0,333	0,09	0,2	0,2	s
36	0,294			-0,8	s
37	0,319			-0,2	s
40	0,26	0,021	-4,3	-1,6	s
42	0,326	0,094	0,0	0,0	s
43	0,298	0,067	-0,8	-0,7	s
44	0,363	0,109	0,7	0,8	s
49	0,38			1,2	s
51	0,274	0,108	-0,9	-1,3	s
56	0,368			0,9	s
57	0,3093			-0,4	s
61	0,192	0,042	-5,6	-3,3	u
65	0,35	0,14	0,3	0,5	s
72	0,365			0,9	s
73	0,361	0,126	0,6	0,8	s
74	0,324	0,039	-0,1	0,0	s
78	0,335	0,091	0,2	0,2	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory

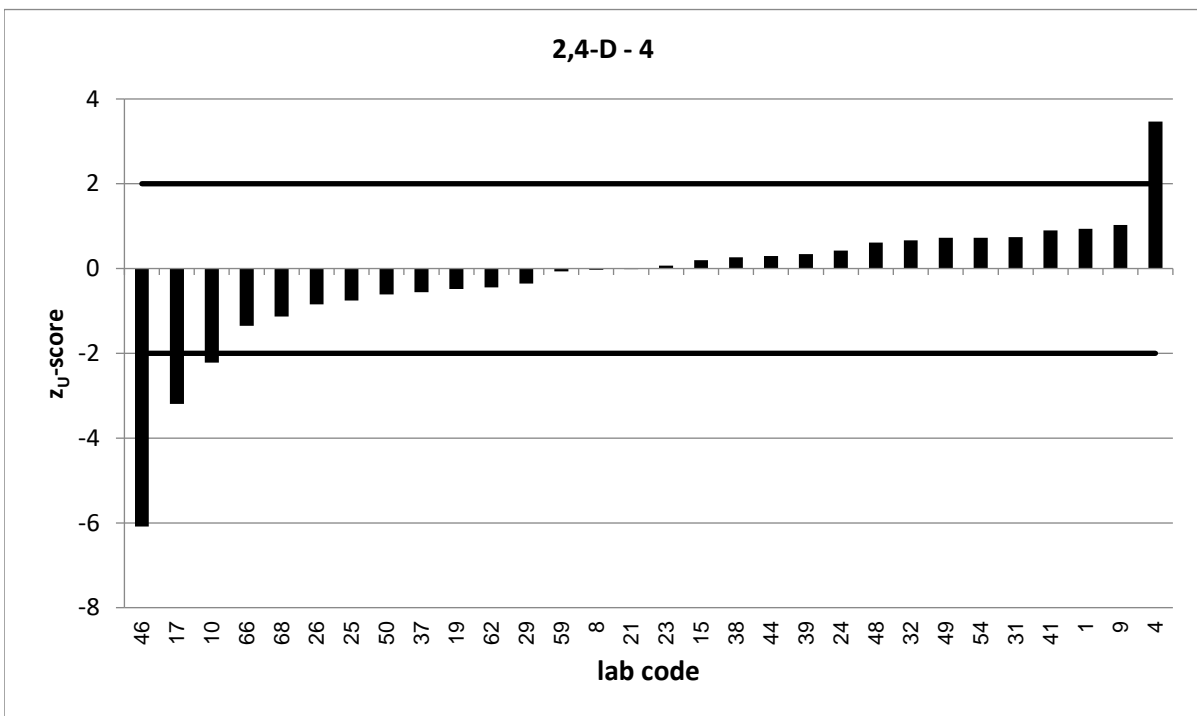
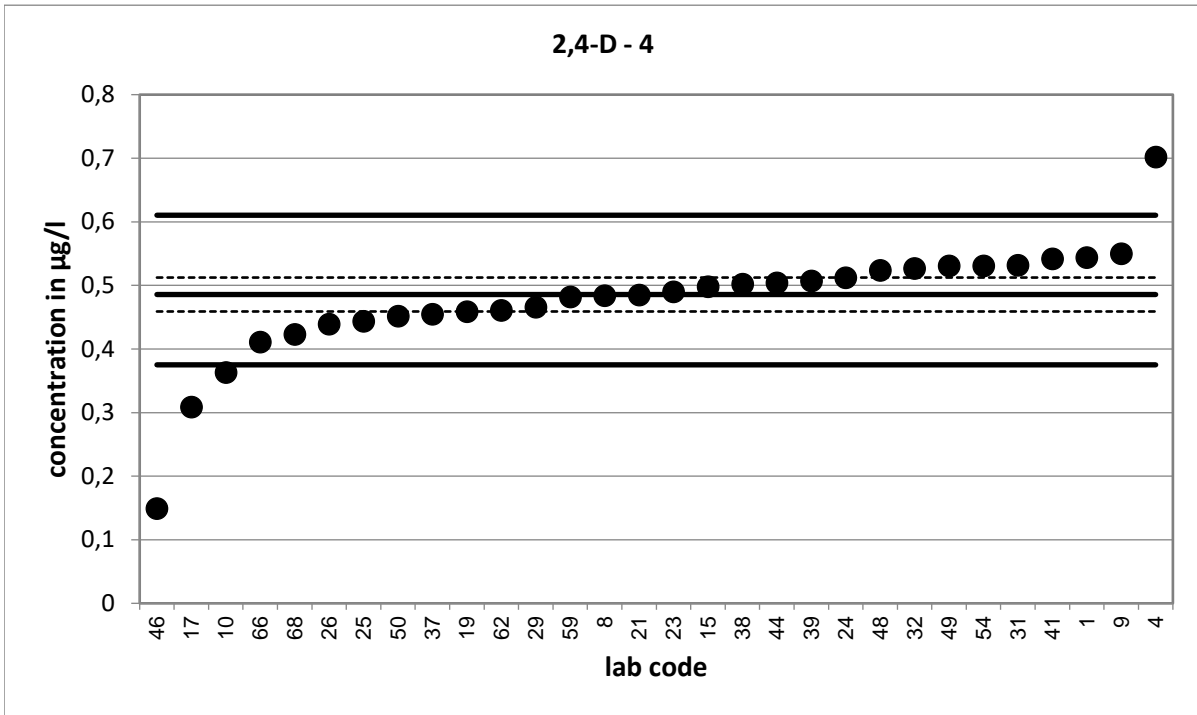


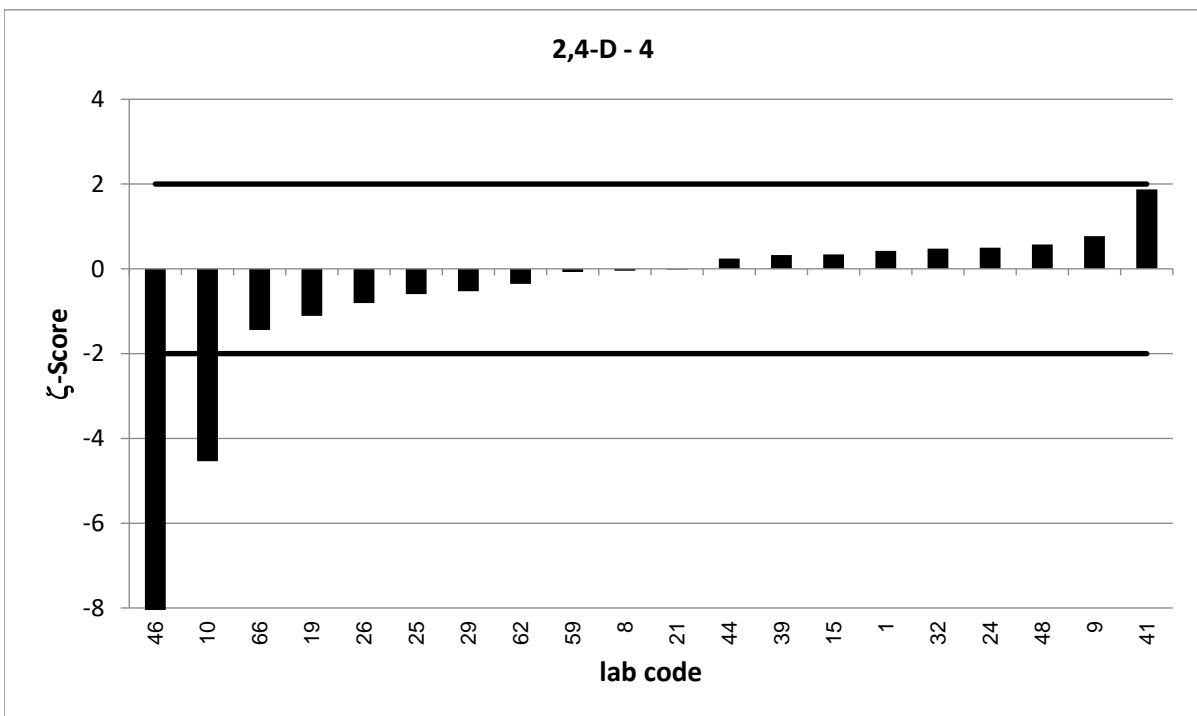
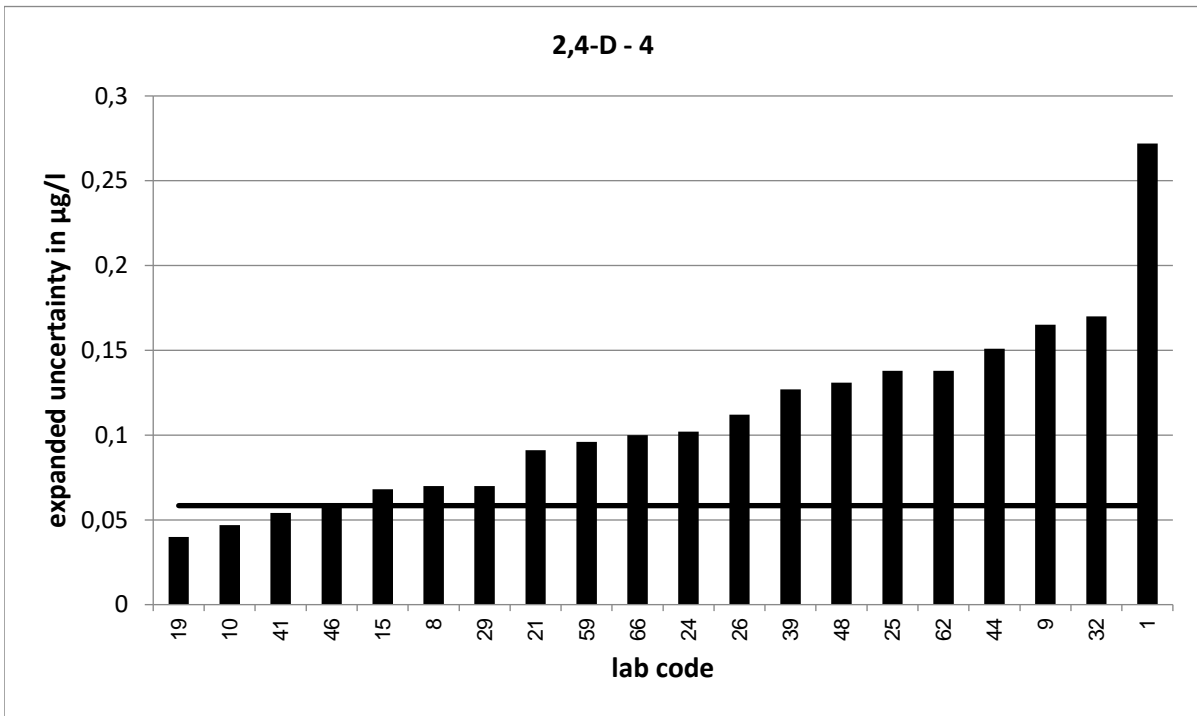


PT 9/24 - TW O4		2,4-D - 4			
assigned value [$\mu\text{g/l}$]*		0,4857 \pm 0,0267			
upper tolerance limit [$\mu\text{g/l}$]		0,6104			
lower tolerance limit [$\mu\text{g/l}$]		0,3751			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
1	0,544	0,272	0,4	0,9	s
4	0,702			3,5	u
8	0,484	0,07	0,0	0,0	s
9	0,55	0,165	0,8	1,0	s
10	0,363	0,047	-4,5	-2,2	q
15	0,498	0,068	0,3	0,2	s
17	0,309			-3,2	u
19	0,459	0,04	-1,1	-0,5	s
21	0,485	0,091	0,0	0,0	s
23	0,49			0,1	s
24	0,512	0,102	0,5	0,4	s
25	0,444	0,138	-0,6	-0,8	s
26	0,439	0,112	-0,8	-0,8	s
29	0,466	0,07	-0,5	-0,4	s
31	0,532			0,7	s
32	0,527	0,17	0,5	0,7	s
37	0,455			-0,6	s
38	0,502			0,3	s
39	0,507	0,127	0,3	0,3	s
41	0,542	0,054	1,9	0,9	s
44	0,504	0,151	0,2	0,3	s
46	0,149	0,06	-10,3	-6,1	u
48	0,524	0,131	0,6	0,6	s
49	0,531			0,7	s
50	0,452			-0,6	s
54	0,531			0,7	s
59	0,482	0,096	-0,1	-0,1	s
62	0,461	0,138	-0,4	-0,4	s
66	0,411	0,1	-1,4	-1,4	s
68	0,423			-1,1	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



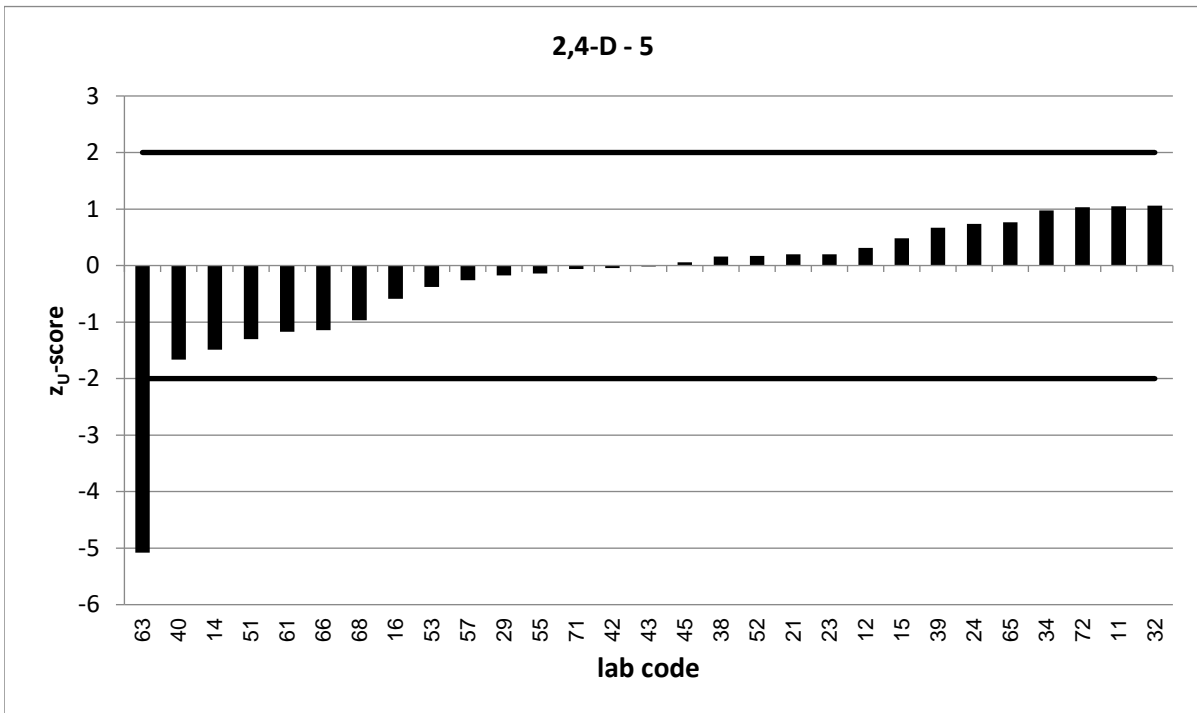
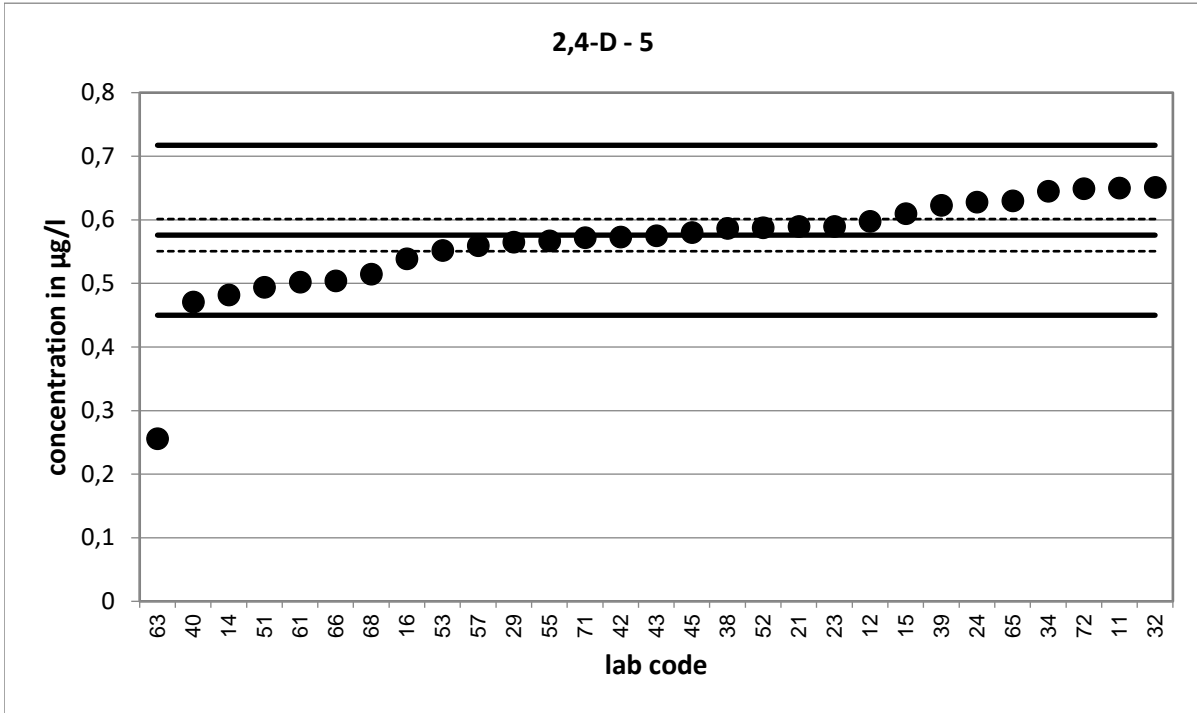


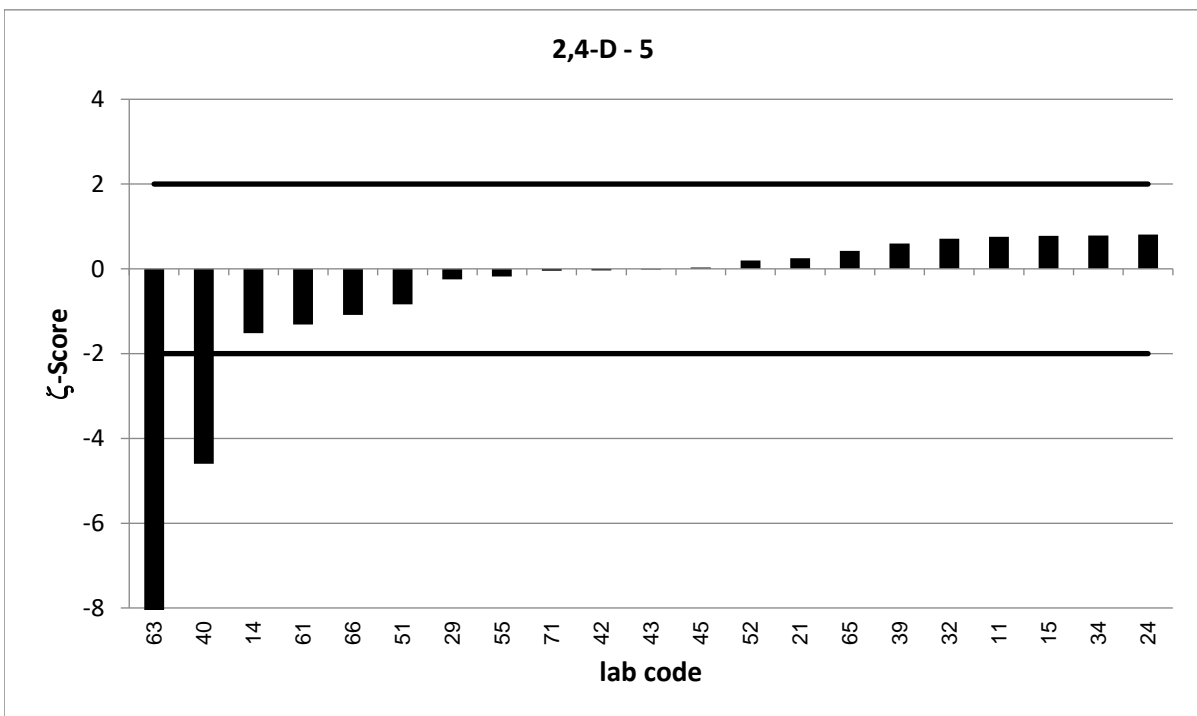
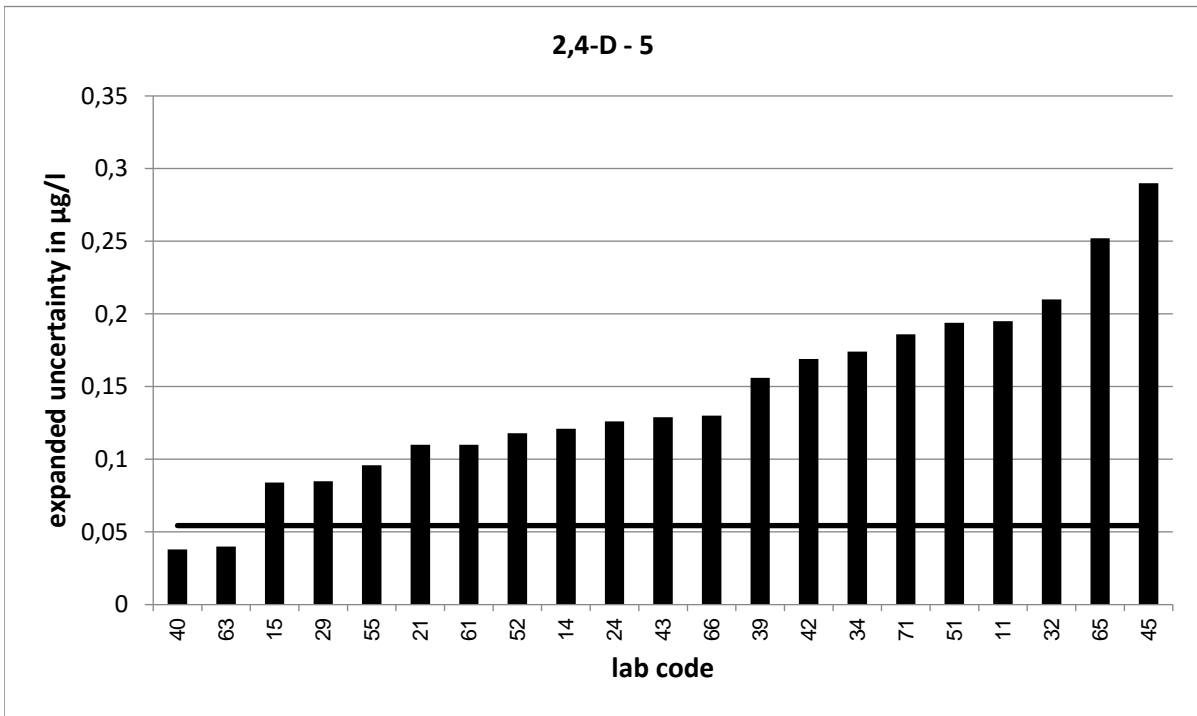
Strongly deviating values are not correctly shown in the diagram.

PT 9/24 - TW O4		2,4-D - 5			
assigned value [$\mu\text{g/l}$]*		0,5759 \pm 0,0253			
upper tolerance limit [$\mu\text{g/l}$]		0,7172			
lower tolerance limit [$\mu\text{g/l}$]		0,4499			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
11	0,65	0,195	0,8	1,0	s
12	0,598			0,3	s
14	0,482	0,121	-1,5	-1,5	s
15	0,61	0,084	0,8	0,5	s
16	0,539			-0,6	s
21	0,59	0,11	0,2	0,2	s
23	0,59			0,2	s
24	0,628	0,126	0,8	0,7	s
29	0,565	0,085	-0,2	-0,2	s
32	0,651	0,21	0,7	1,1	s
34	0,645	0,174	0,8	1,0	s
38	0,587			0,2	s
39	0,623	0,156	0,6	0,7	s
40	0,471	0,038	-4,6	-1,7	s
42	0,573	0,169	0,0	0,0	s
43	0,575	0,129	0,0	0,0	s
45	0,58	0,29	0,0	0,1	s
51	0,494	0,194	-0,8	-1,3	s
52	0,588	0,118	0,2	0,2	s
53	0,552			-0,4	s
55	0,567	0,096	-0,2	-0,1	s
57	0,5597			-0,3	s
61	0,502	0,11	-1,3	-1,2	s
63	0,256	0,04	-13,5	-5,1	u
65	0,63	0,252	0,4	0,8	s
66	0,504	0,13	-1,1	-1,1	s
68	0,515			-1,0	s
71	0,572	0,186	0,0	-0,1	s
72	0,649			1,0	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



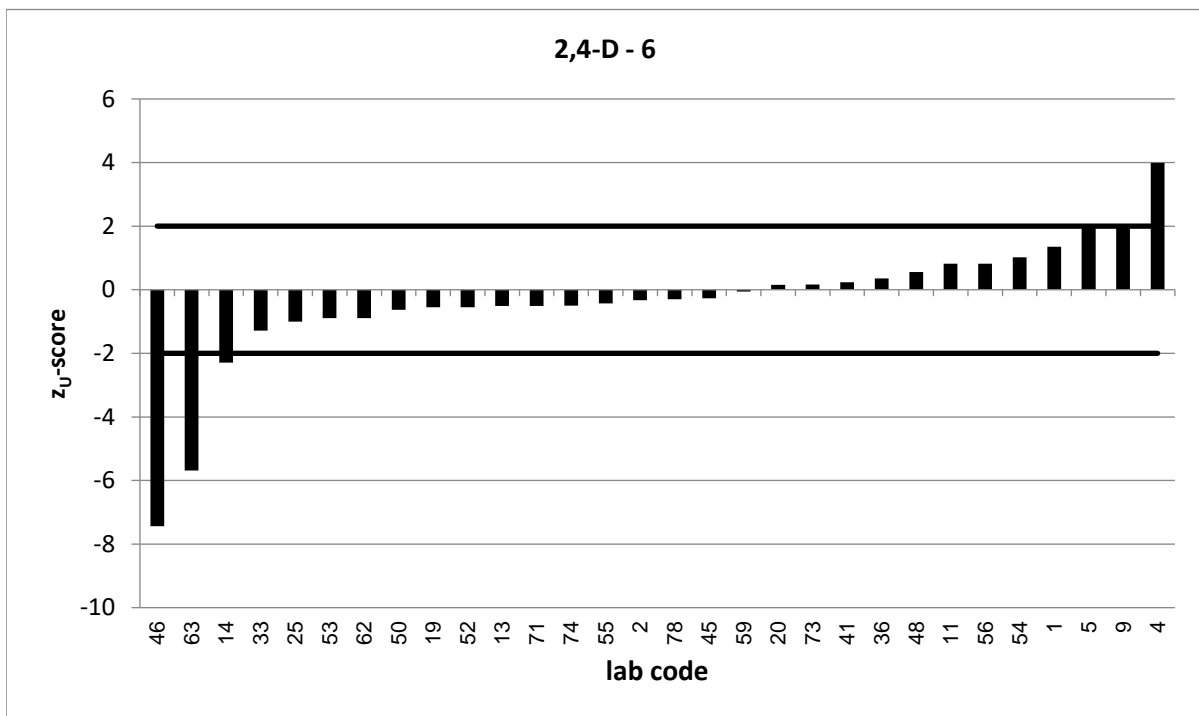
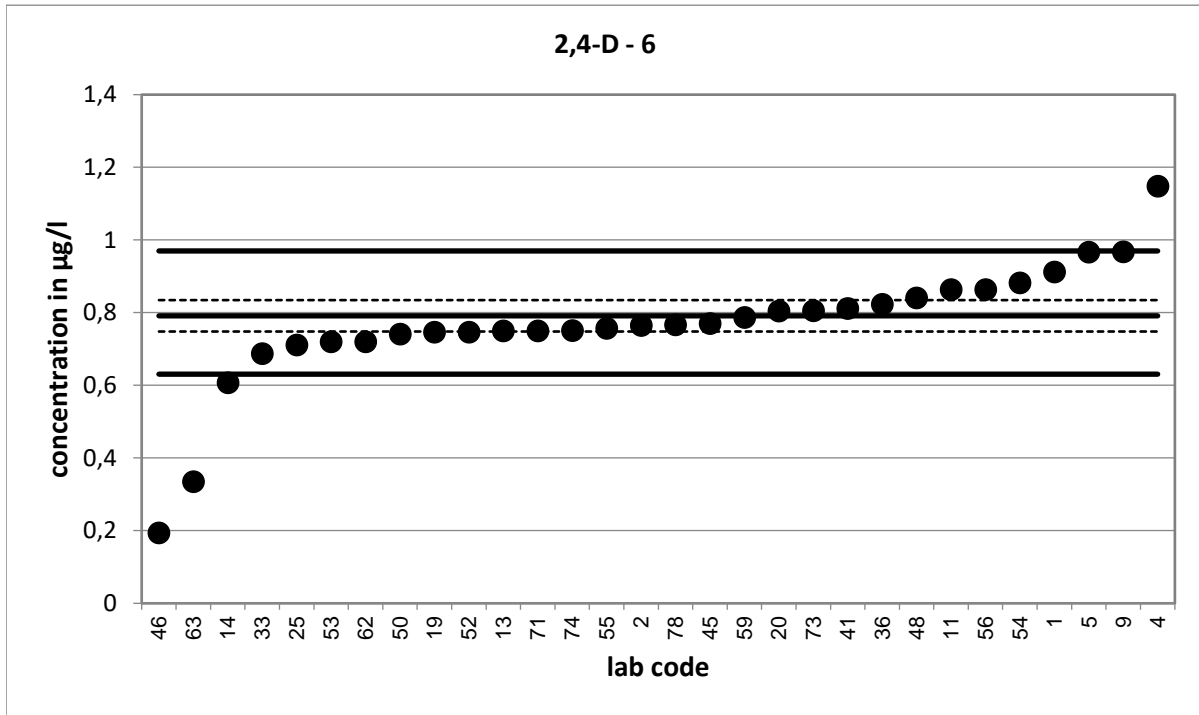


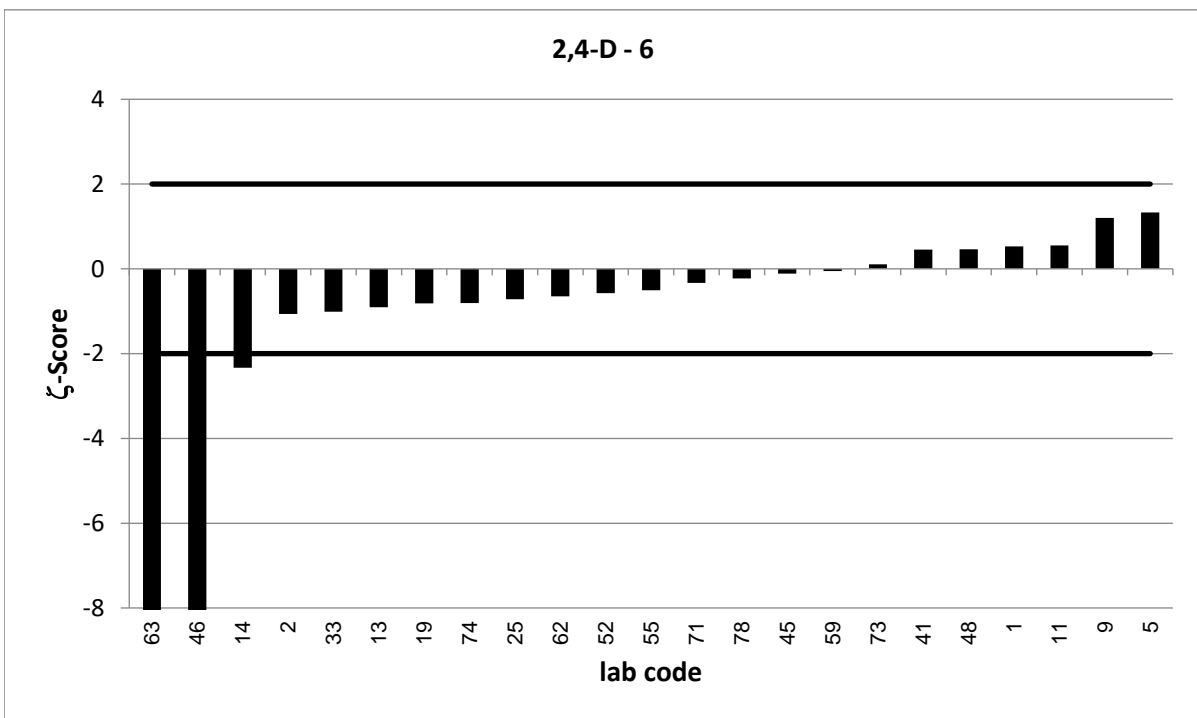
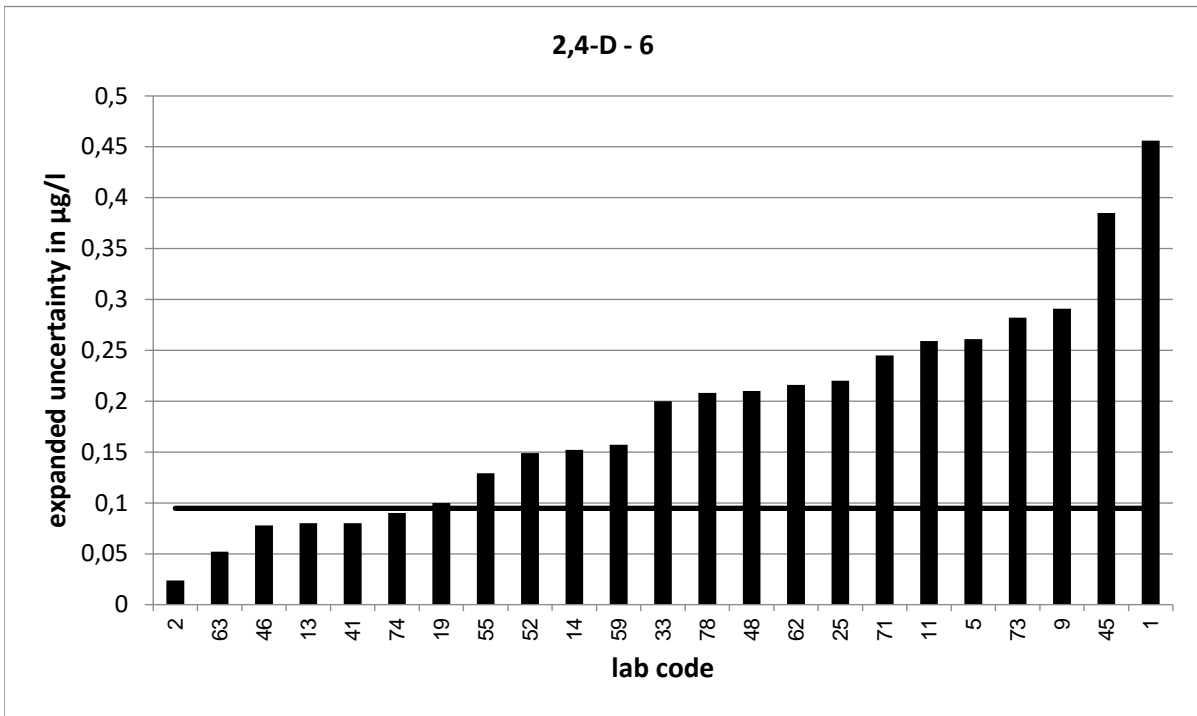
Strongly deviating values are not correctly shown in the diagram.

PT 9/24 - TW O4		2,4-D - 6			
assigned value [$\mu\text{g/l}$]*		0,7913 \pm 0,0432			
upper tolerance limit [$\mu\text{g/l}$]		0,9699			
lower tolerance limit [$\mu\text{g/l}$]		0,6307			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
1	0,912	0,456	0,5	1,4	s
2	0,765	0,024	-1,1	-0,3	s
4	1,148			4,0	u
5	0,967	0,261	1,3	2,0	s
9	0,968	0,291	1,2	2,0	s
11	0,864	0,259	0,6	0,8	s
13	0,75	0,08	-0,9	-0,5	s
14	0,607	0,152	-2,3	-2,3	q
19	0,747	0,1	-0,8	-0,6	s
20	0,80488			0,2	s
25	0,711	0,22	-0,7	-1,0	s
33	0,688	0,2	-1,0	-1,3	s
36	0,823			0,4	s
41	0,812	0,08	0,5	0,2	s
45	0,77	0,385	-0,1	-0,3	s
46	0,194	0,078	-13,4	-7,4	u
48	0,841	0,21	0,5	0,6	s
50	0,741			-0,6	s
52	0,747	0,149	-0,6	-0,6	s
53	0,72			-0,9	s
54	0,882			1,0	s
55	0,757	0,129	-0,5	-0,4	s
56	0,864			0,8	s
59	0,787	0,157	-0,1	-0,1	s
62	0,72	0,216	-0,6	-0,9	s
63	0,335	0,052	-13,5	-5,7	u
71	0,75	0,245	-0,3	-0,5	s
73	0,806	0,282	0,1	0,2	s
74	0,751	0,09	-0,8	-0,5	s
78	0,767	0,208	-0,2	-0,3	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



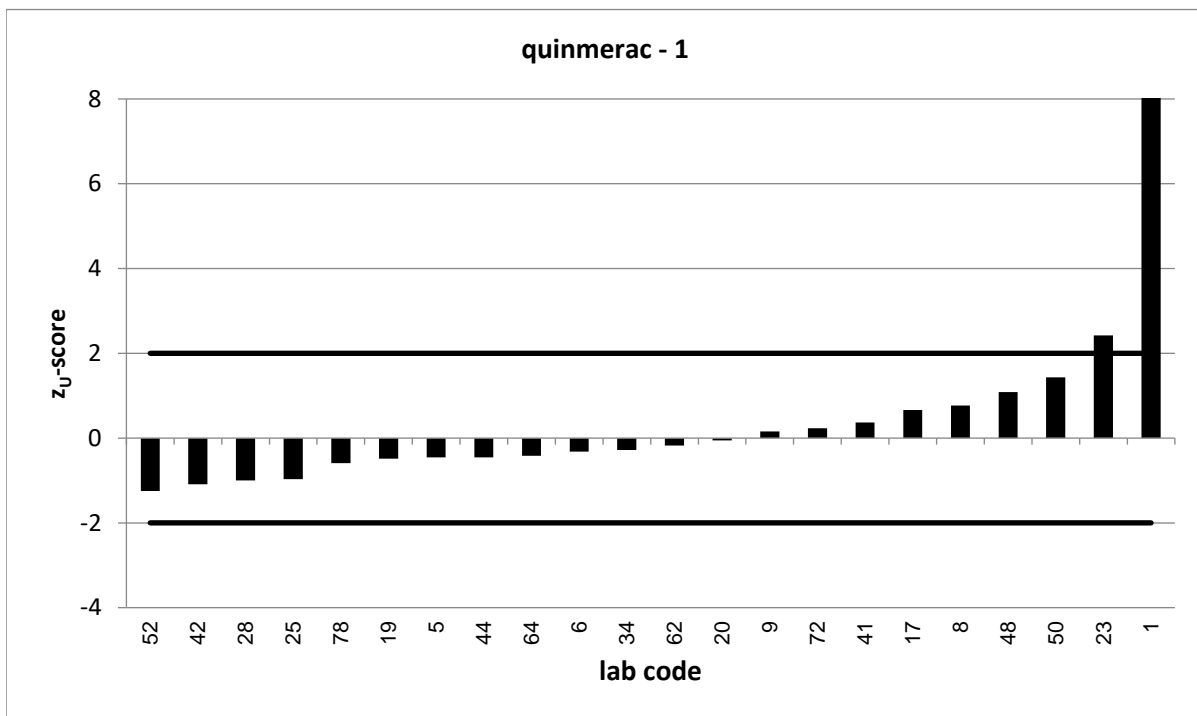
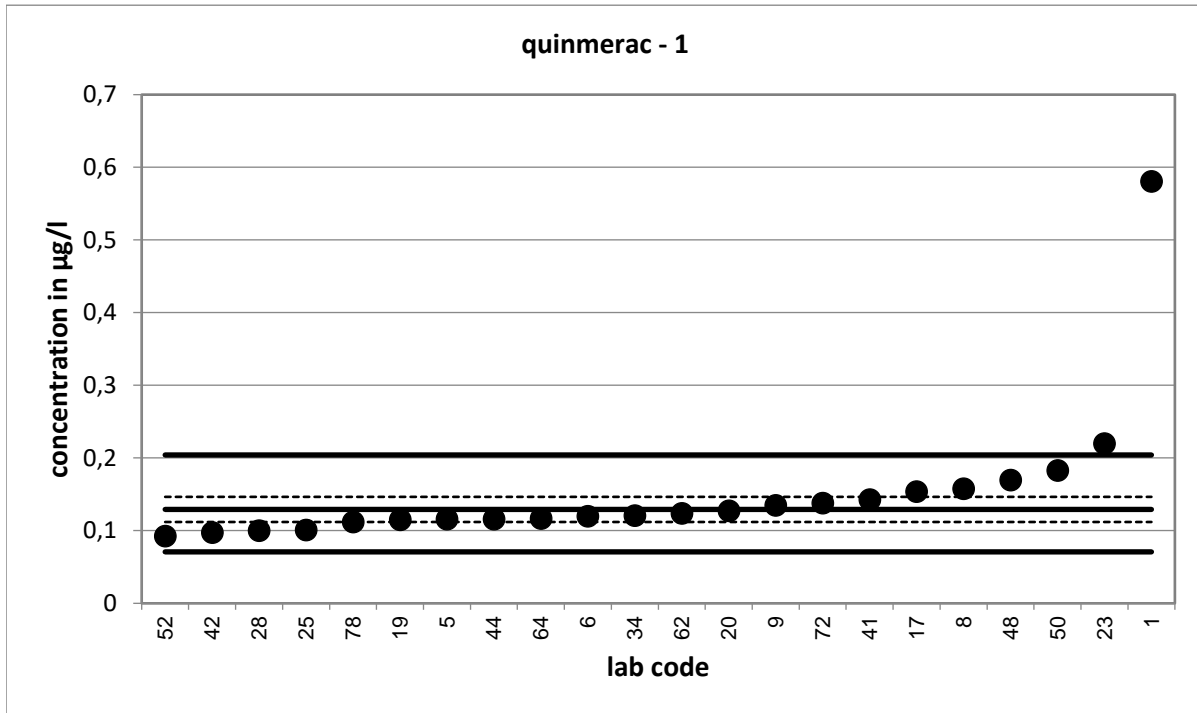


Strongly deviating values are not correctly shown in the diagram.

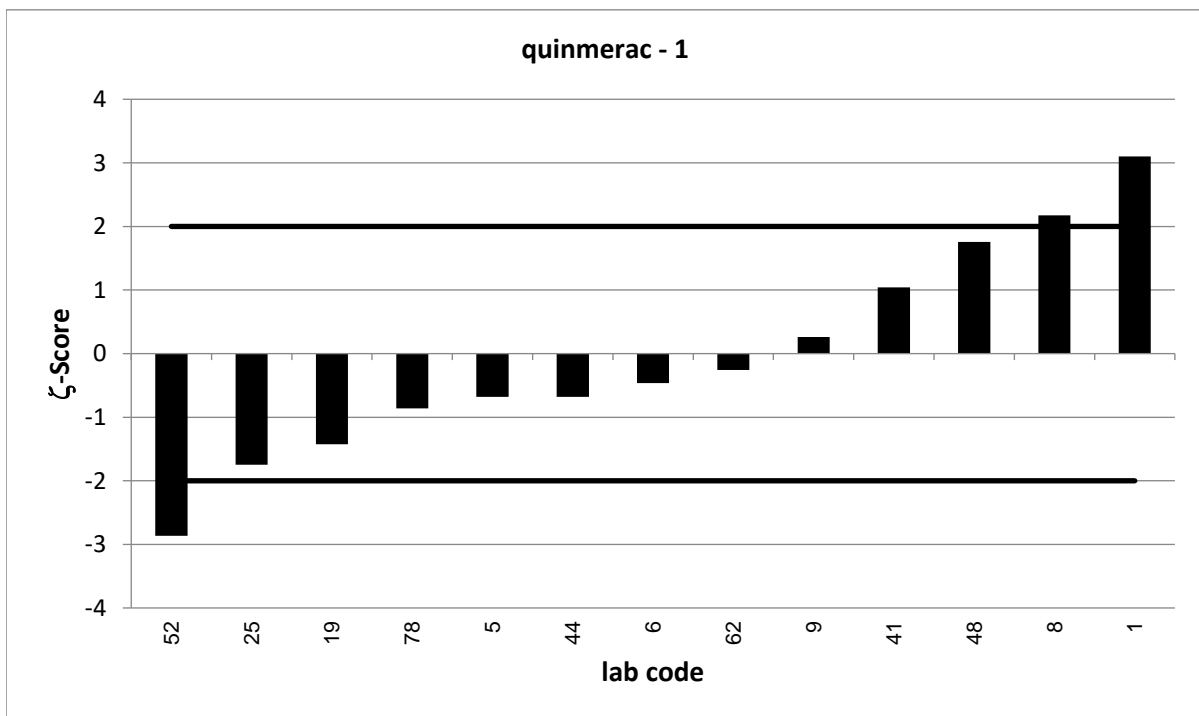
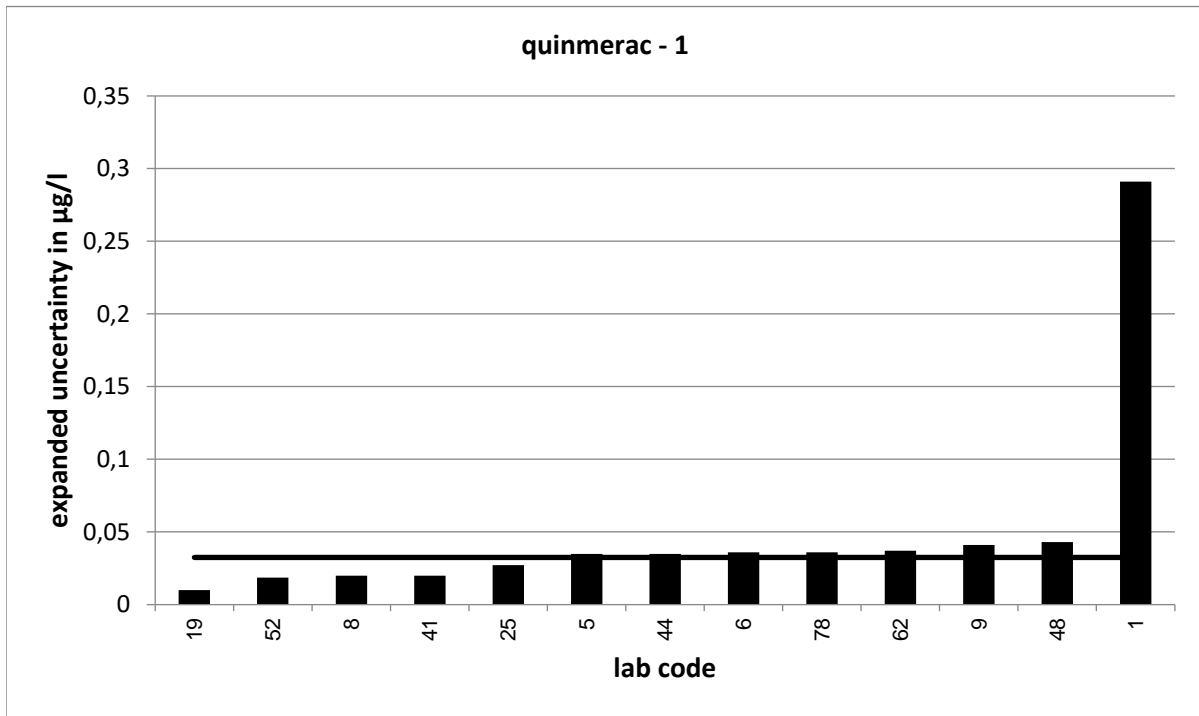
PT 9/24 - TW O4		quinmerac - 1			
assigned value [$\mu\text{g/l}$]*		0,1292 \pm 0,0173			
upper tolerance limit [$\mu\text{g/l}$]		0,2042			
lower tolerance limit [$\mu\text{g/l}$]		0,07083			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
1	0,581	0,291	3,1	12,1	u
5	0,116	0,035	-0,7	-0,5	s
6	0,12	0,036	-0,5	-0,3	s
8	0,158	0,02	2,2	0,8	s
9	0,135	0,041	0,3	0,2	s
17	0,154			0,7	s
19	0,115	0,01	-1,4	-0,5	s
20	0,12761			-0,1	s
23	0,22			2,4	q
25	0,101	0,027	-1,7	-1,0	s
28	0,1			-1,0	s
34	0,121			-0,3	s
41	0,143	0,02	1,0	0,4	s
42	0,0975			-1,1	s
44	0,116	0,035	-0,7	-0,5	s
48	0,17	0,043	1,8	1,1	s
50	0,183			1,4	s
52	0,0928	0,019	-2,9	-1,2	s
62	0,124	0,037	-0,3	-0,2	s
64	0,117			-0,4	s
72	0,138			0,2	s
78	0,112	0,036	-0,9	-0,6	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



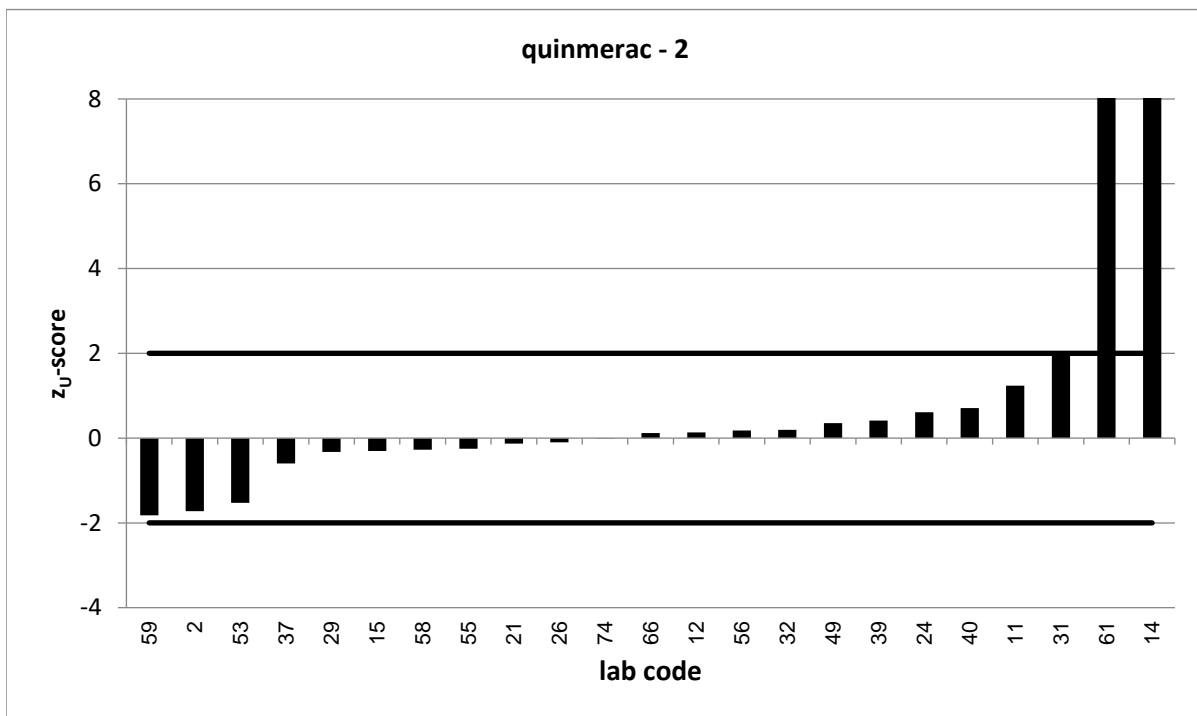
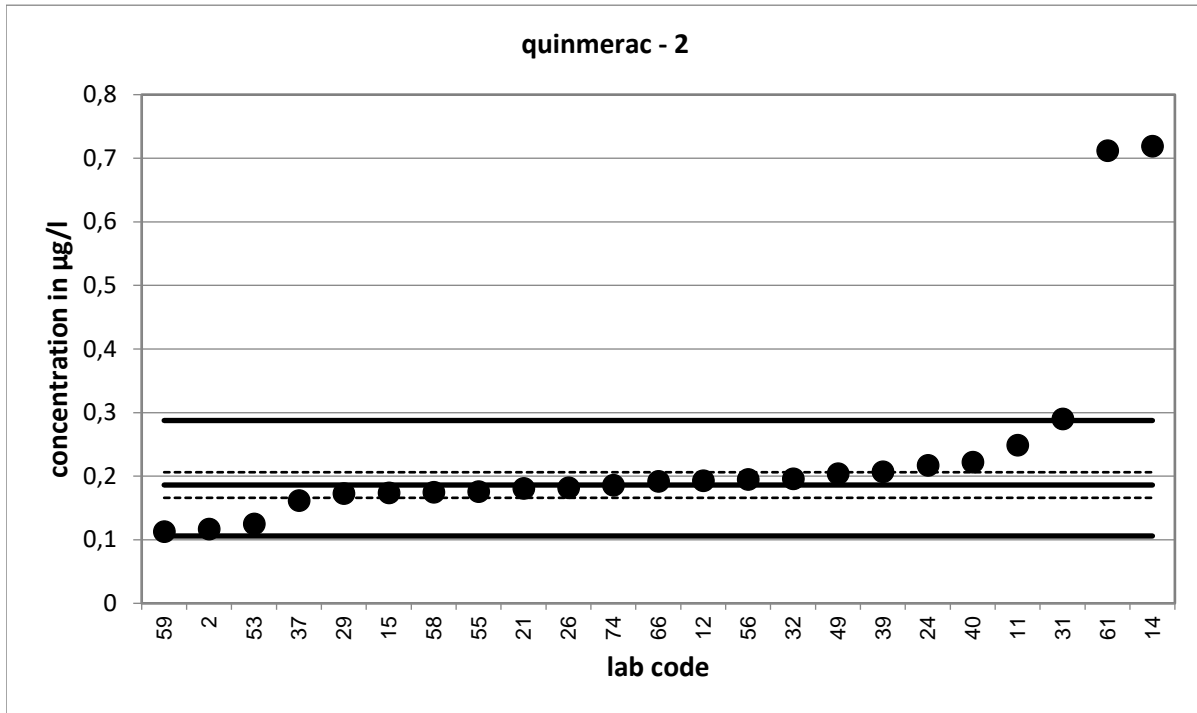
Strongly deviating values are not correctly shown in the diagram.



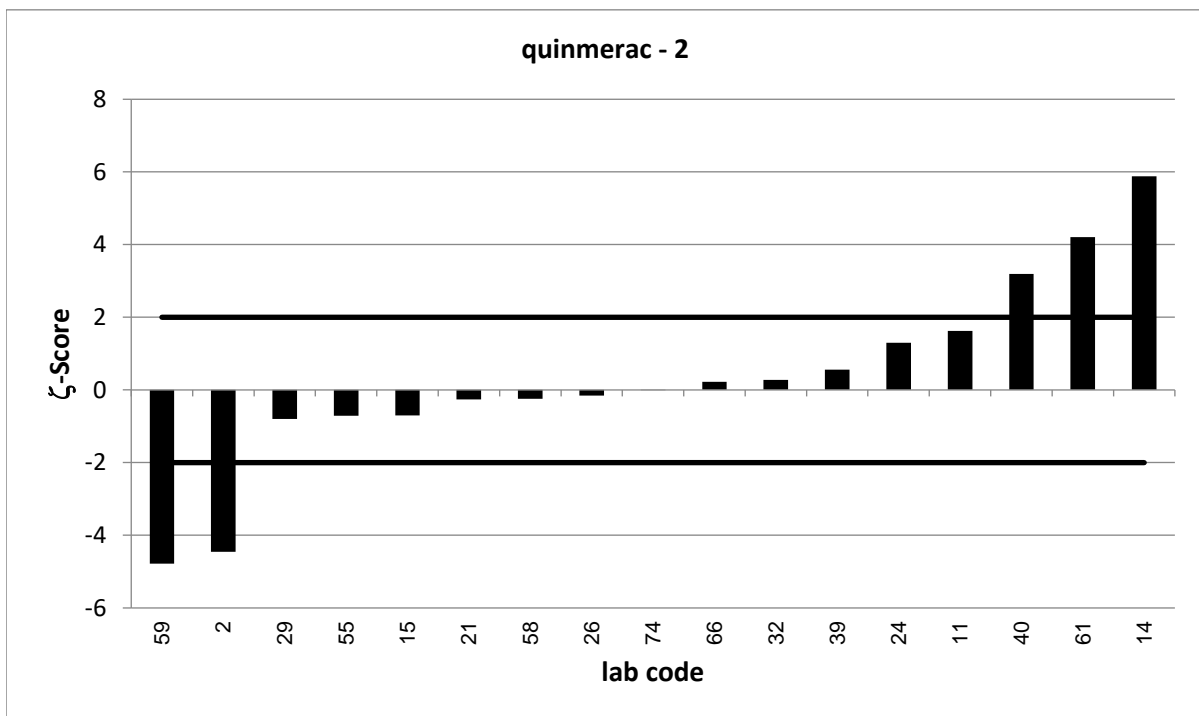
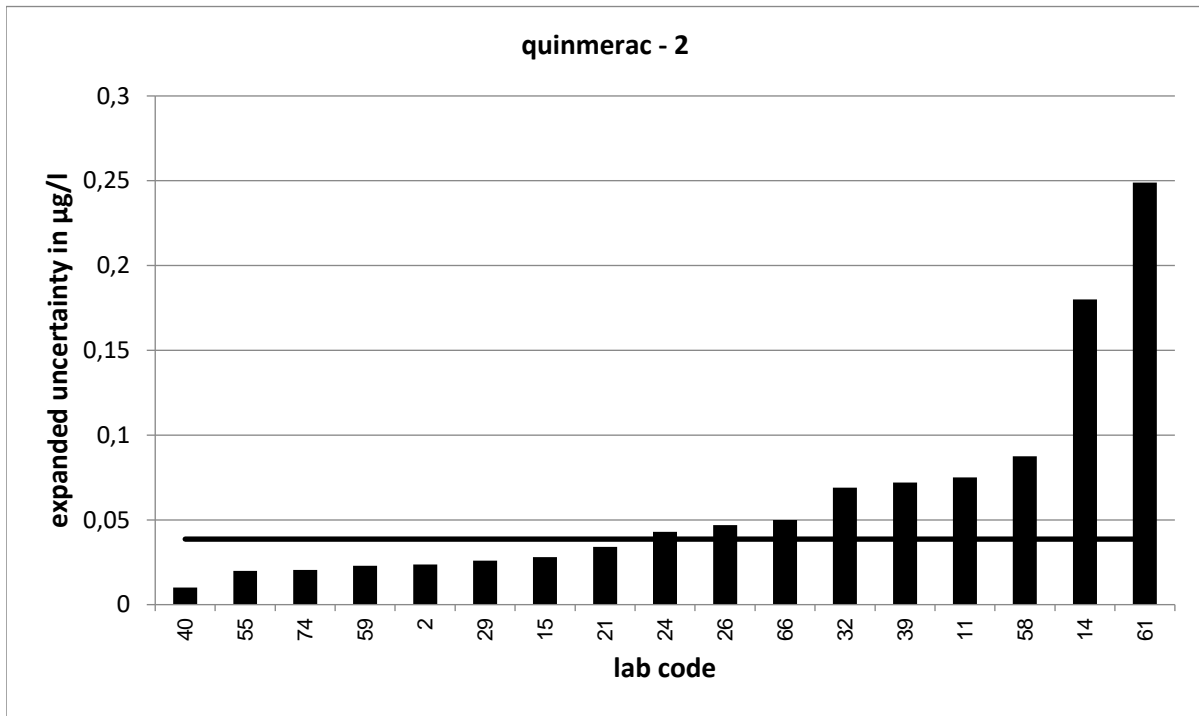
PT 9/24 - TW O4		quinmerac - 2			
assigned value [$\mu\text{g/l}$]*		0,1861 \pm 0,0201			
upper tolerance limit [$\mu\text{g/l}$]		0,2875			
lower tolerance limit [$\mu\text{g/l}$]		0,106			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
2	0,117	0,024	-4,5	-1,7	s
11	0,249	0,075	1,6	1,2	s
12	0,193			0,1	s
14	0,719	0,18	5,9	10,5	u
15	0,174	0,028	-0,7	-0,3	s
21	0,181	0,034	-0,3	-0,1	s
24	0,217	0,043	1,3	0,6	s
26	0,182	0,047	-0,2	-0,1	s
29	0,173	0,026	-0,8	-0,3	s
31	0,29			2,0	s
32	0,196	0,069	0,3	0,2	s
37	0,162			-0,6	s
39	0,207	0,072	0,6	0,4	s
40	0,222	0,01	3,2	0,7	s
49	0,204			0,4	s
53	0,125			-1,5	s
55	0,176	0,02	-0,7	-0,3	s
56	0,195			0,2	s
58	0,175	0,088	-0,2	-0,3	s
59	0,113	0,023	-4,8	-1,8	s
61	0,712	0,249	4,2	10,4	u
66	0,192	0,05	0,2	0,1	s
74	0,186	0,021	0,0	0,0	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



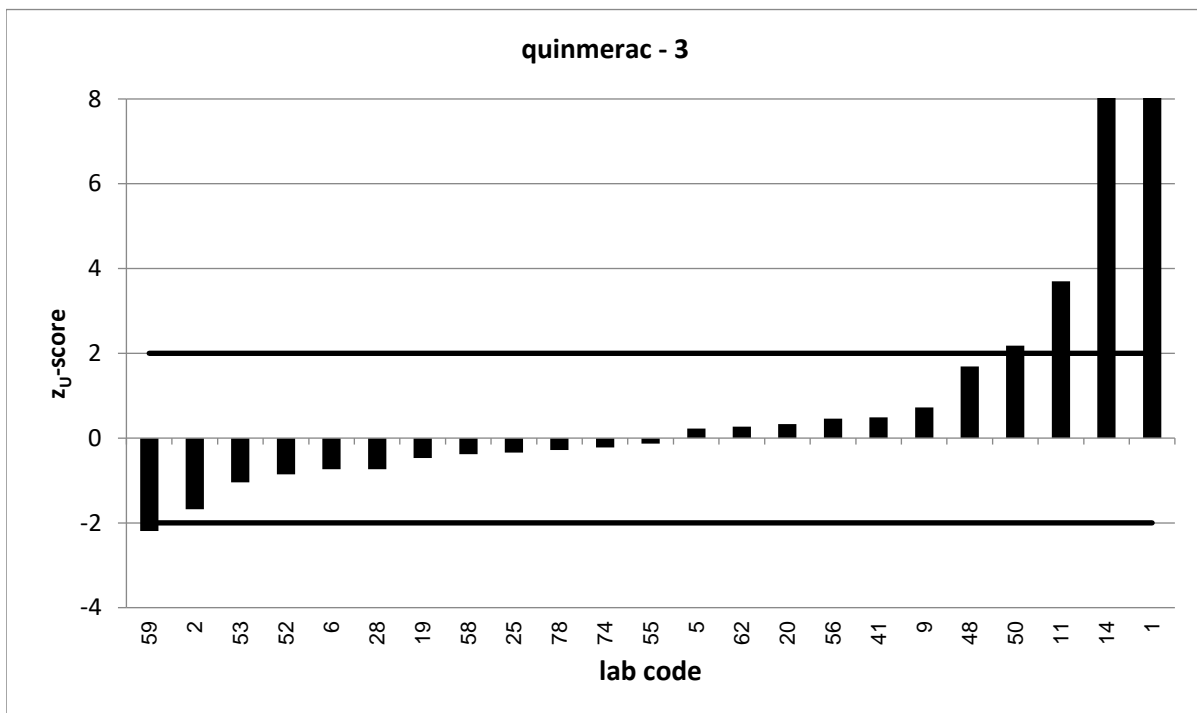
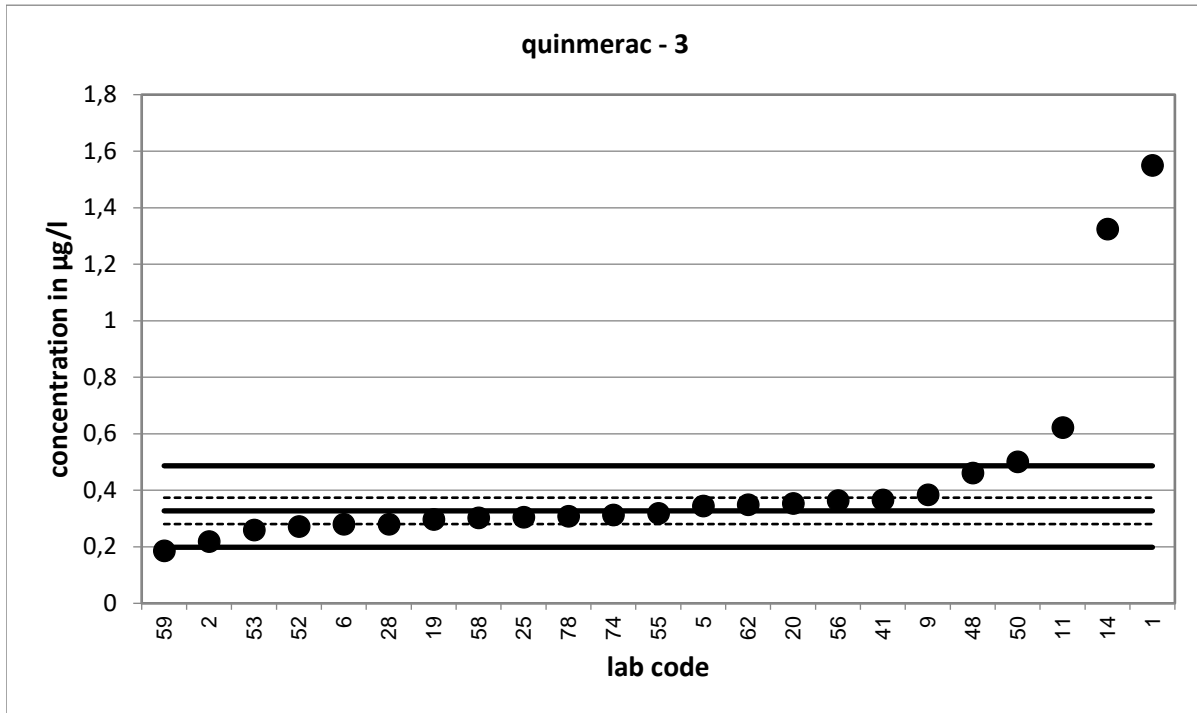
Strongly deviating values are not correctly shown in the diagram.



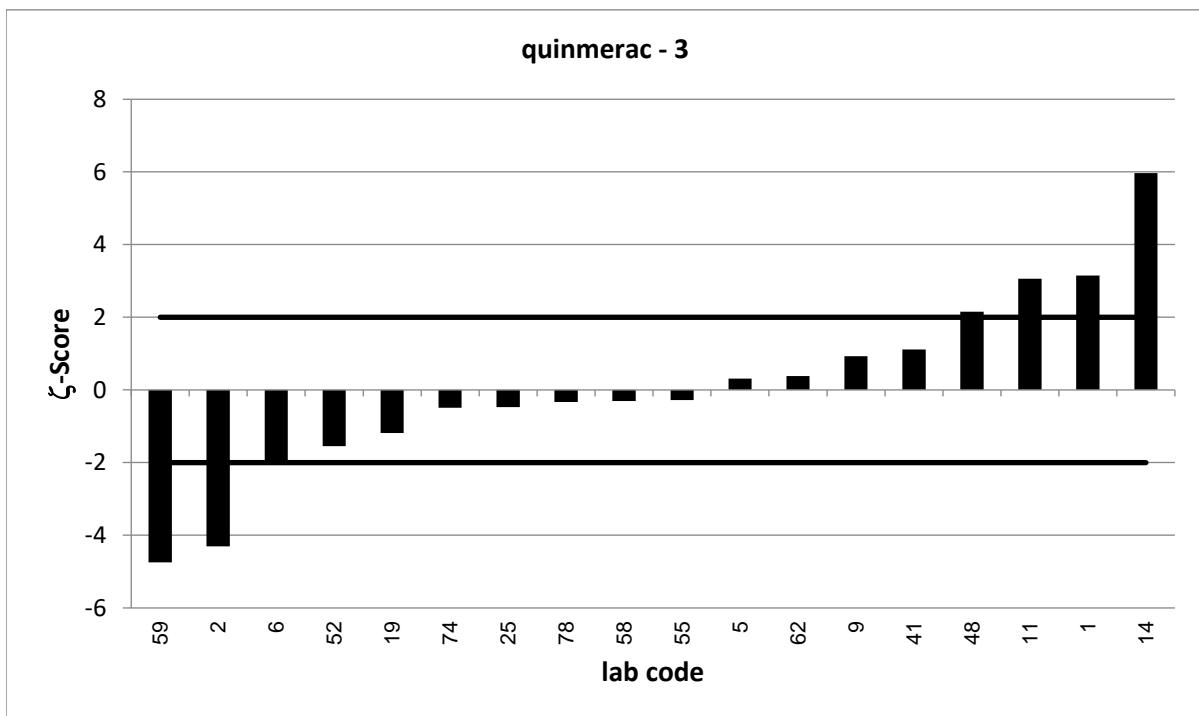
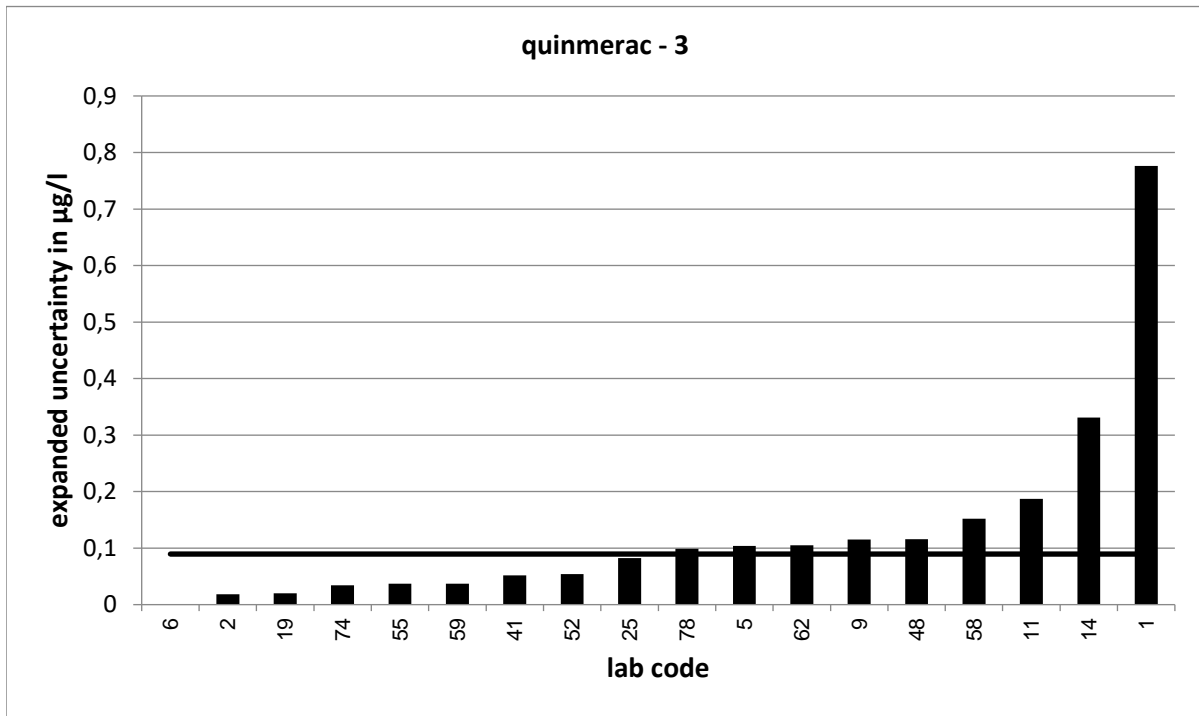
PT 9/24 - TW O4		quinmerac - 3			
assigned value [$\mu\text{g/l}$]*		0,3272 \pm 0,0467			
upper tolerance limit [$\mu\text{g/l}$]		0,4866			
lower tolerance limit [$\mu\text{g/l}$]		0,1985			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
1	1,55	0,776	3,1	15,3	u
2	0,219	0,019	-4,3	-1,7	s
5	0,345	0,104	0,3	0,2	s
6	0,28	0	-2,0	-0,7	s
9	0,385	0,115	0,9	0,7	s
11	0,622	0,187	3,1	3,7	u
14	1,325	0,331	6,0	12,5	u
19	0,297	0,02	-1,2	-0,5	s
20	0,35374			0,3	s
25	0,305	0,082	-0,5	-0,3	s
28	0,28			-0,7	s
41	0,366	0,052	1,1	0,5	s
48	0,462	0,116	2,2	1,7	s
50	0,501			2,2	q
52	0,272	0,054	-1,5	-0,9	s
53	0,26			-1,0	s
55	0,319	0,037	-0,3	-0,1	s
56	0,364			0,5	s
58	0,303	0,152	-0,3	-0,4	s
59	0,186	0,037	-4,7	-2,2	q
62	0,349	0,105	0,4	0,3	s
74	0,313	0,034	-0,5	-0,2	s
78	0,309	0,099	-0,3	-0,3	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



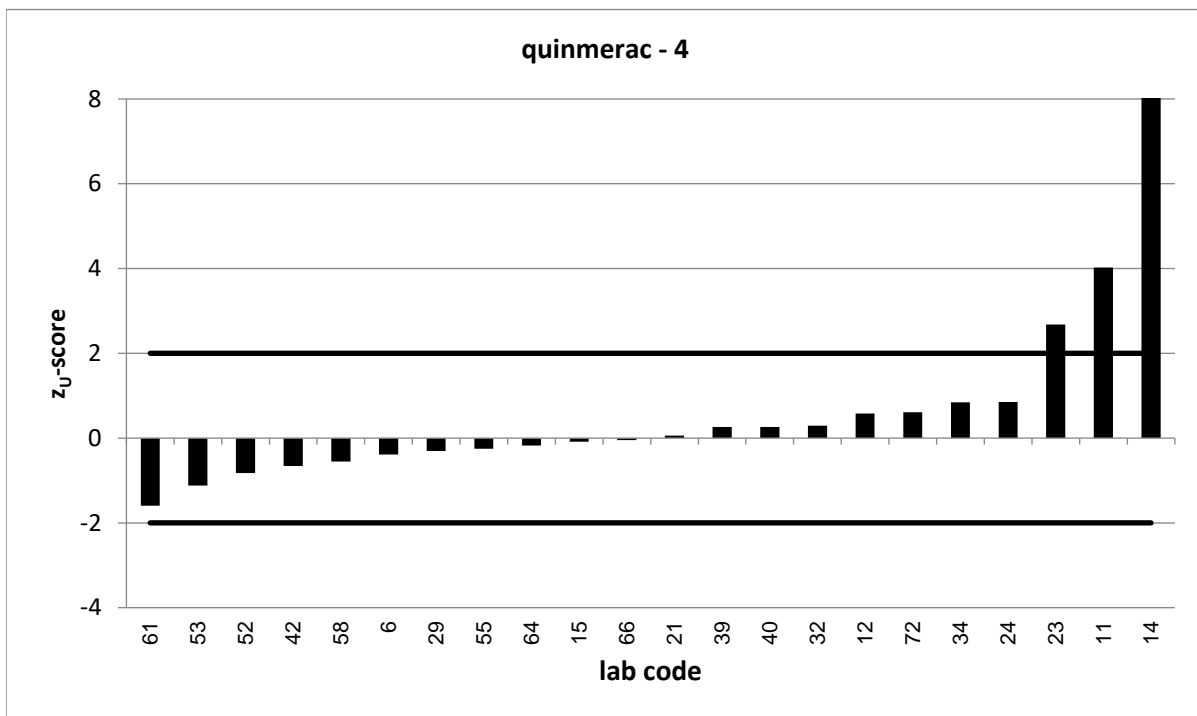
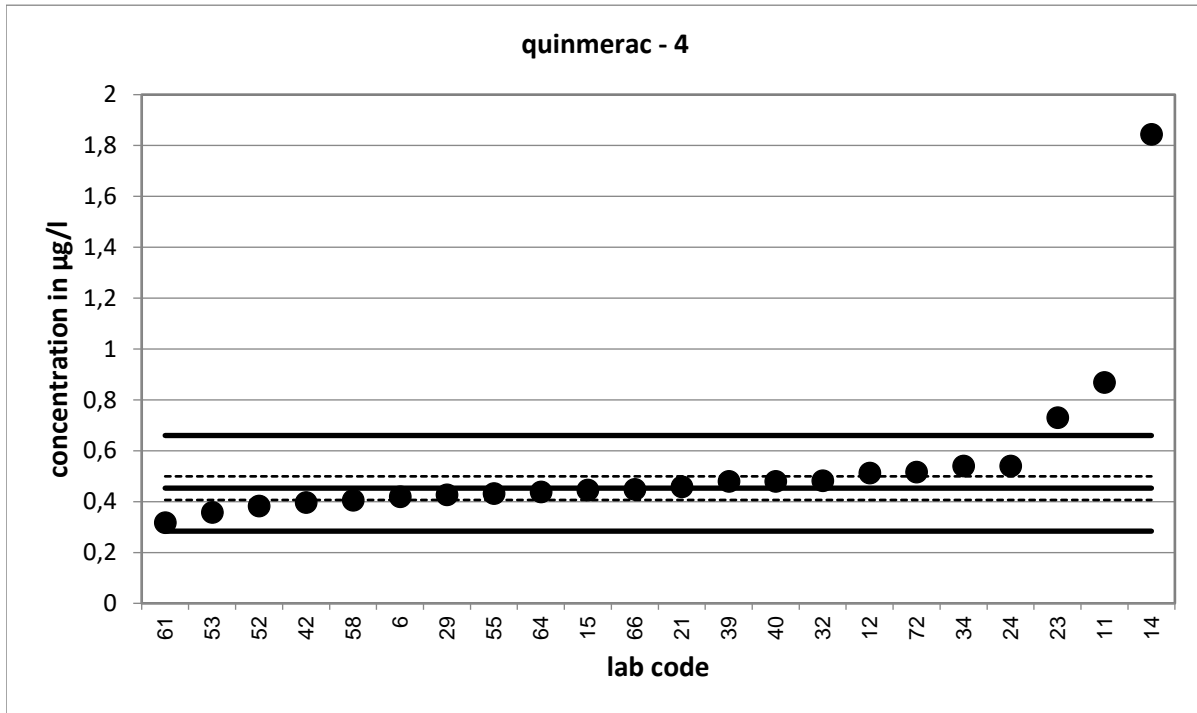
Strongly deviating values are not correctly shown in the diagram.



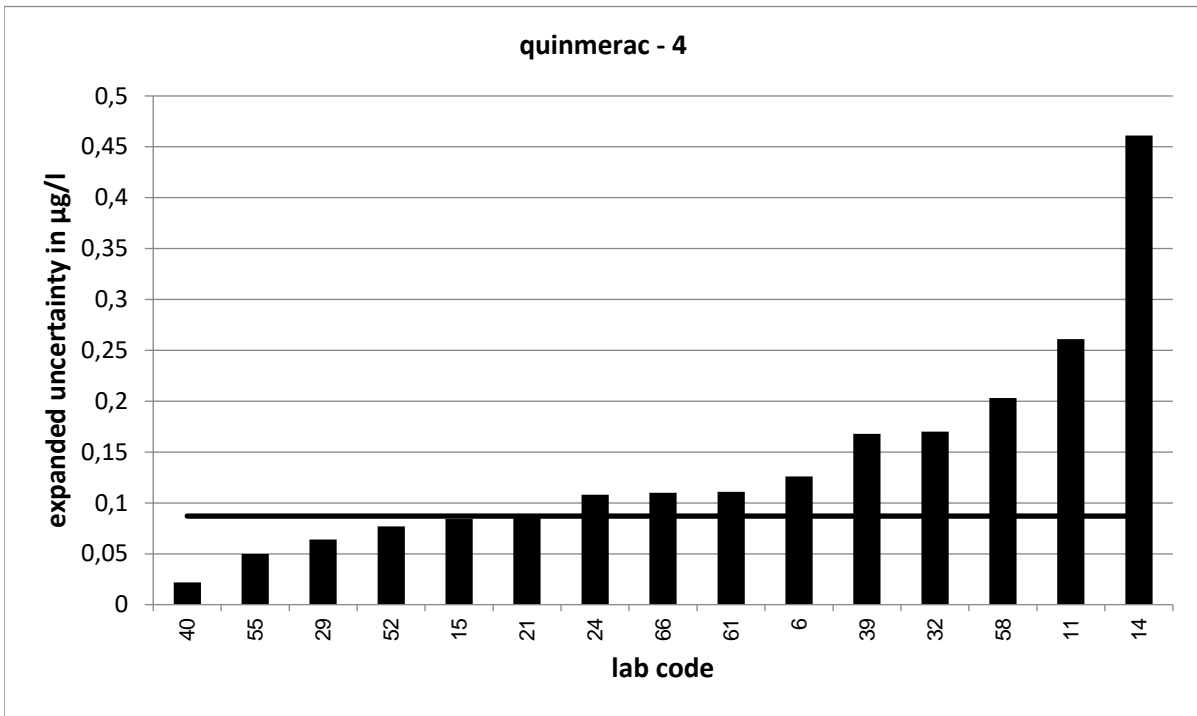
PT 9/24 - TW O4		quinmerac - 4			
assigned value [$\mu\text{g/l}$]*		0,4529 \pm 0,0464			
upper tolerance limit [$\mu\text{g/l}$]		0,6599			
lower tolerance limit [$\mu\text{g/l}$]		0,2838			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
6	0,42	0,126	-0,5	-0,4	s
11	0,869	0,261	3,1	4,0	u
12	0,513			0,6	s
14	1,844	0,461	6,0	13,4	u
15	0,446	0,084	-0,1	-0,1	s
21	0,459	0,086	0,1	0,1	s
23	0,73			2,7	q
24	0,541	0,108	1,5	0,9	s
29	0,427	0,064	-0,7	-0,3	s
32	0,483	0,17	0,3	0,3	s
34	0,54			0,8	s
39	0,48	0,168	0,3	0,3	s
40	0,48	0,022	1,1	0,3	s
42	0,397			-0,7	s
52	0,383	0,077	-1,6	-0,8	s
53	0,358			-1,1	s
55	0,432	0,05	-0,6	-0,2	s
58	0,406	0,203	-0,5	-0,6	s
61	0,318	0,111	-2,2	-1,6	s
64	0,438			-0,2	s
66	0,449	0,11	-0,1	0,0	s
72	0,516			0,6	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

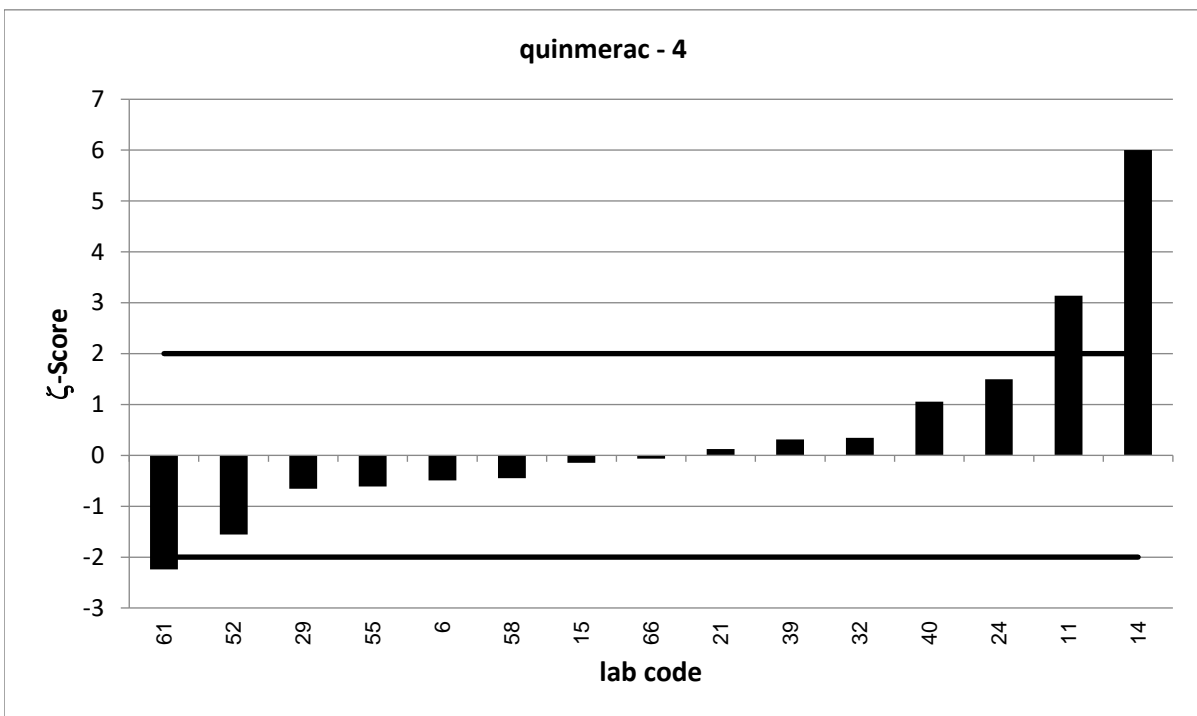
** s = satisfactory, q = questionable, u = unsatisfactory



Strongly deviating values are not correctly shown in the diagram.



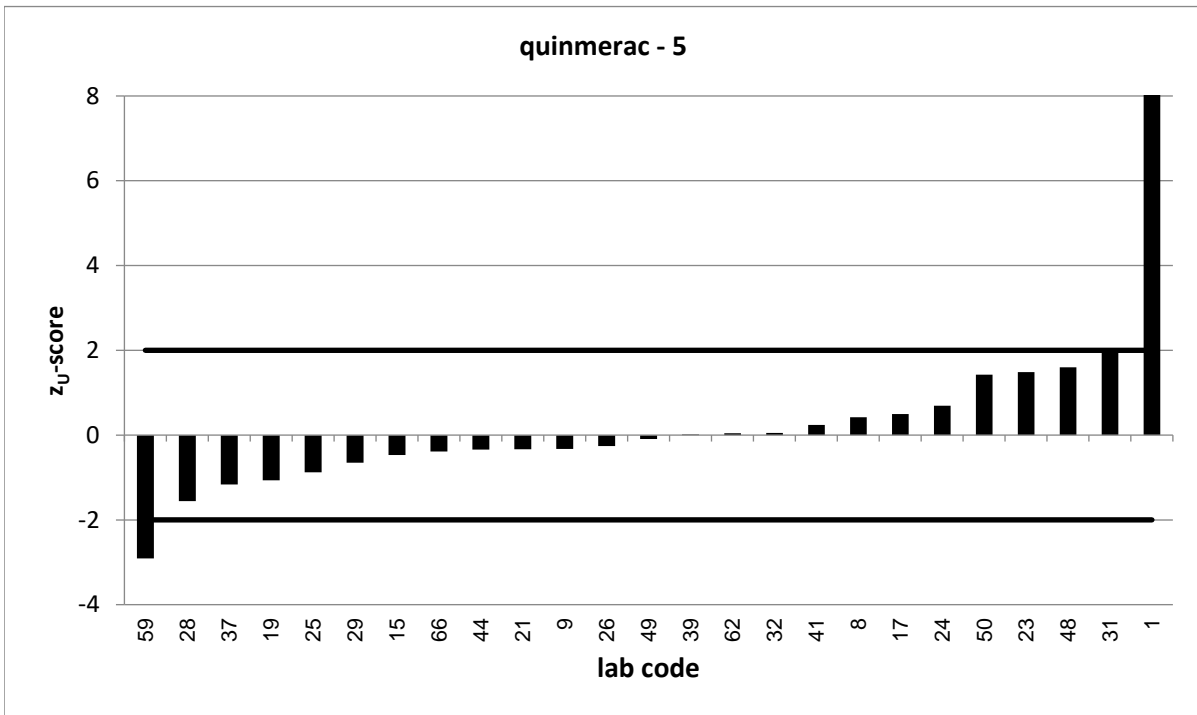
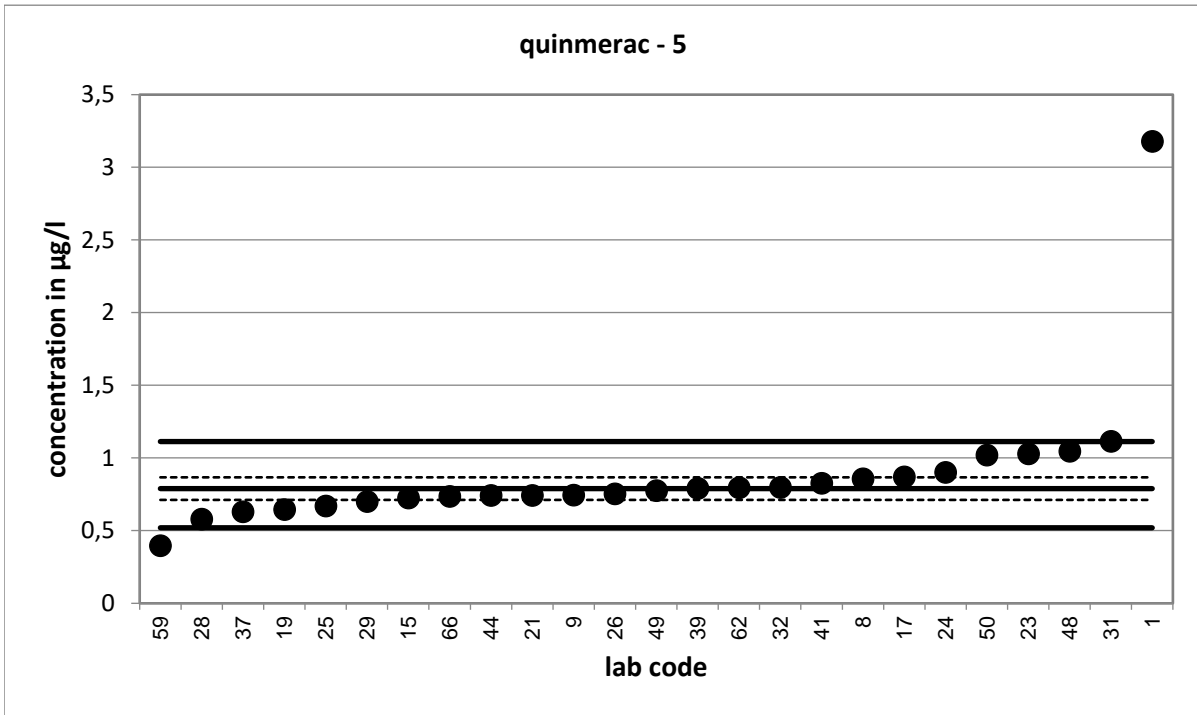
Strongly deviating values are not correctly shown in the diagram.



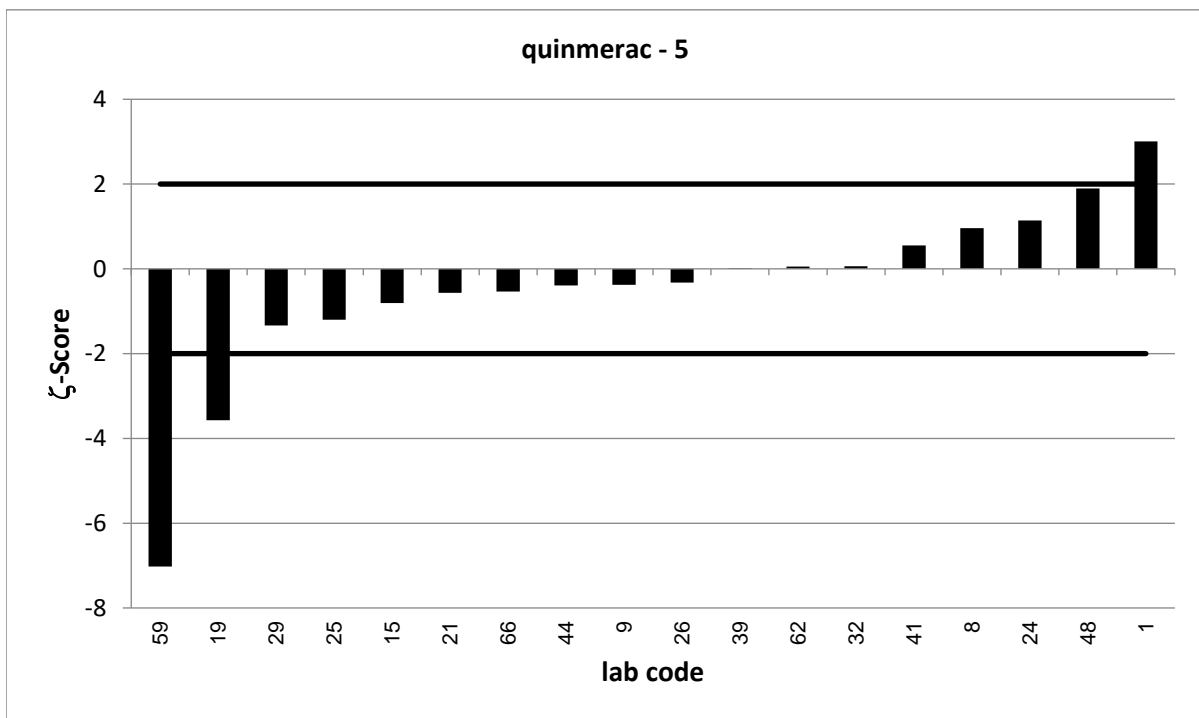
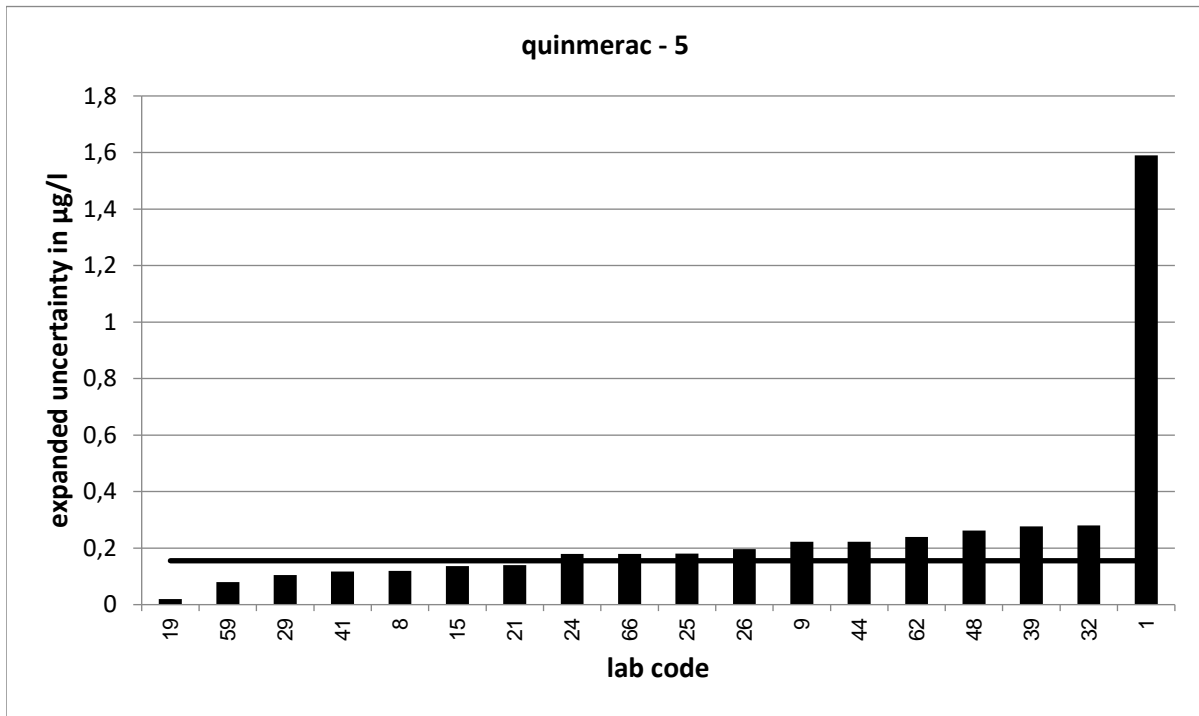
PT 9/24 - TW O4		quinmerac - 5			
assigned value [$\mu\text{g/l}$]*		0,7894 \pm 0,0777			
upper tolerance limit [$\mu\text{g/l}$]		1,113			
lower tolerance limit [$\mu\text{g/l}$]		0,52			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
1	3,18	1,59	3,0	14,8	u
8	0,858	0,12	1,0	0,4	s
9	0,745	0,223	-0,4	-0,3	s
15	0,726	0,137	-0,8	-0,5	s
17	0,87			0,5	s
19	0,646	0,02	-3,6	-1,1	s
21	0,744	0,14	-0,6	-0,3	s
23	1,03			1,5	s
24	0,901	0,18	1,1	0,7	s
25	0,671	0,181	-1,2	-0,9	s
26	0,755	0,196	-0,3	-0,3	s
28	0,58			-1,6	s
29	0,702	0,105	-1,3	-0,6	s
31	1,115			2,0	s
32	0,798	0,28	0,1	0,1	s
37	0,632			-1,2	s
39	0,792	0,277	0,0	0,0	s
41	0,828	0,117	0,6	0,2	s
44	0,743	0,223	-0,4	-0,3	s
48	1,048	0,262	1,9	1,6	s
49	0,777			-0,1	s
50	1,02			1,4	s
59	0,398	0,08	-7,0	-2,9	q
62	0,796	0,239	0,1	0,0	s
66	0,737	0,18	-0,5	-0,4	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



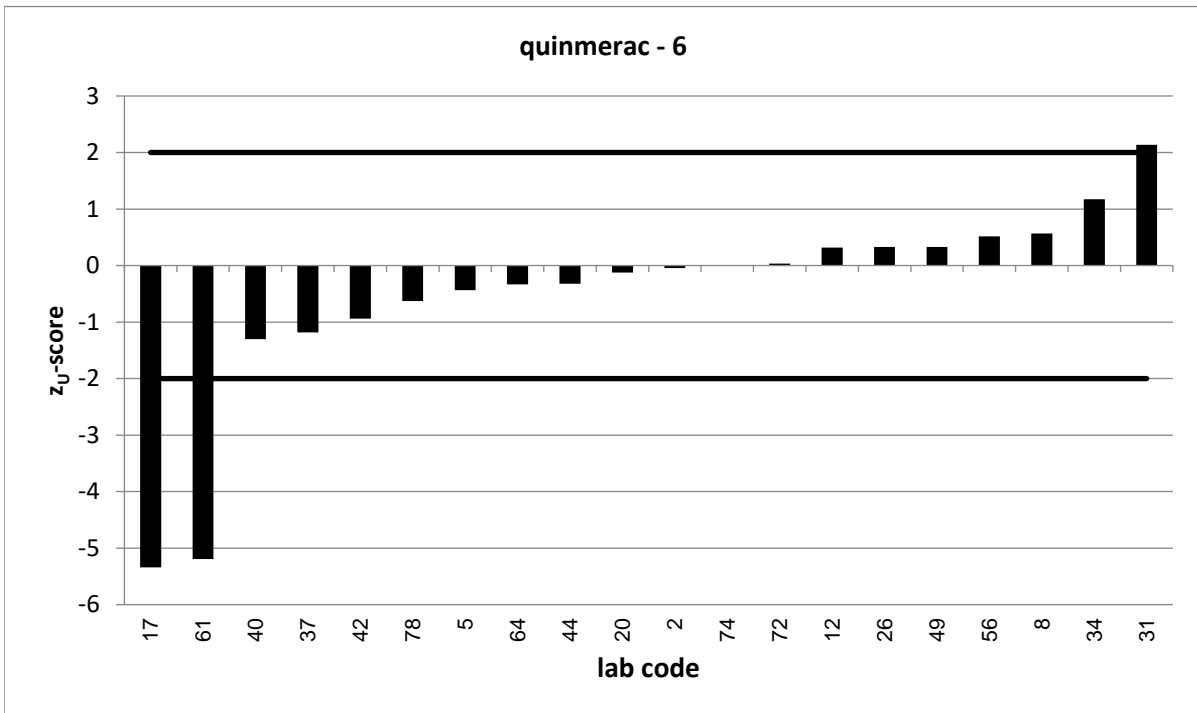
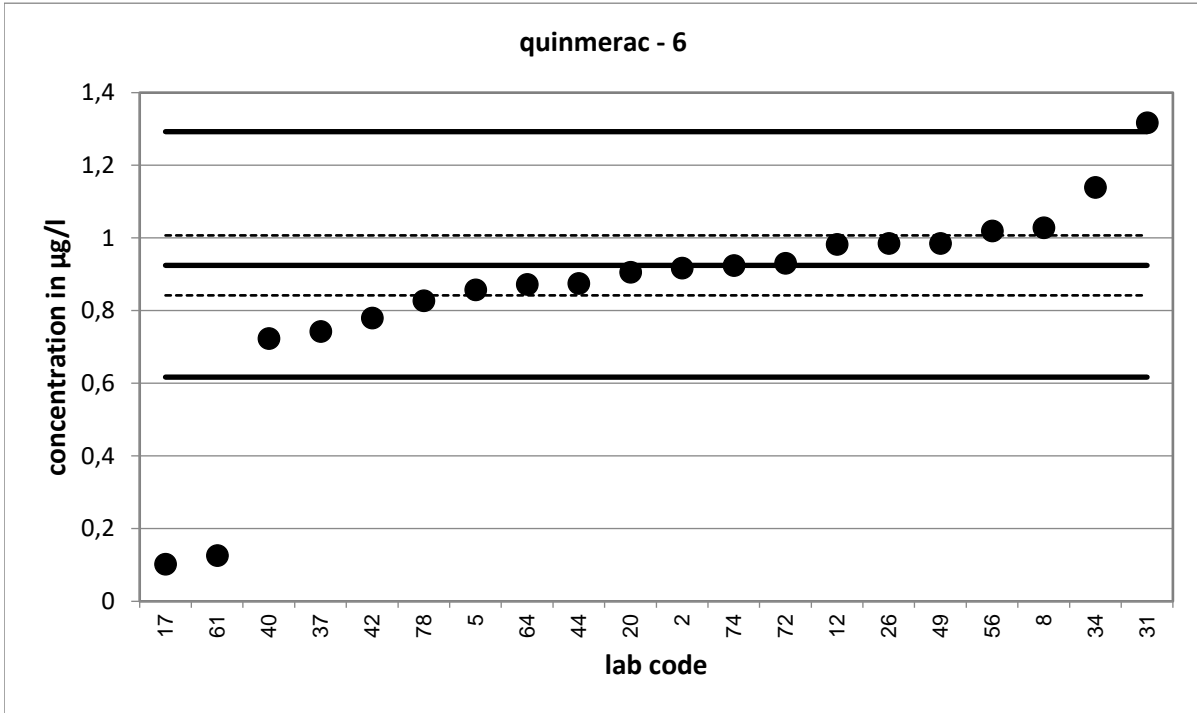
Strongly deviating values are not correctly shown in the diagram.

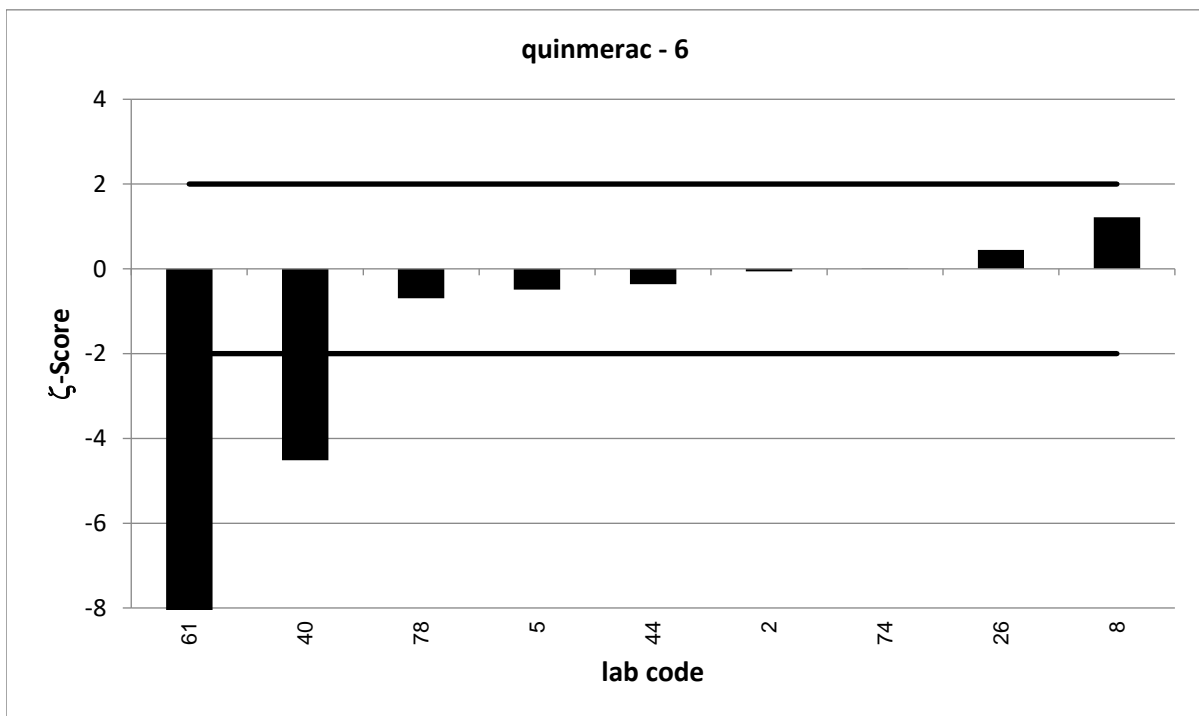
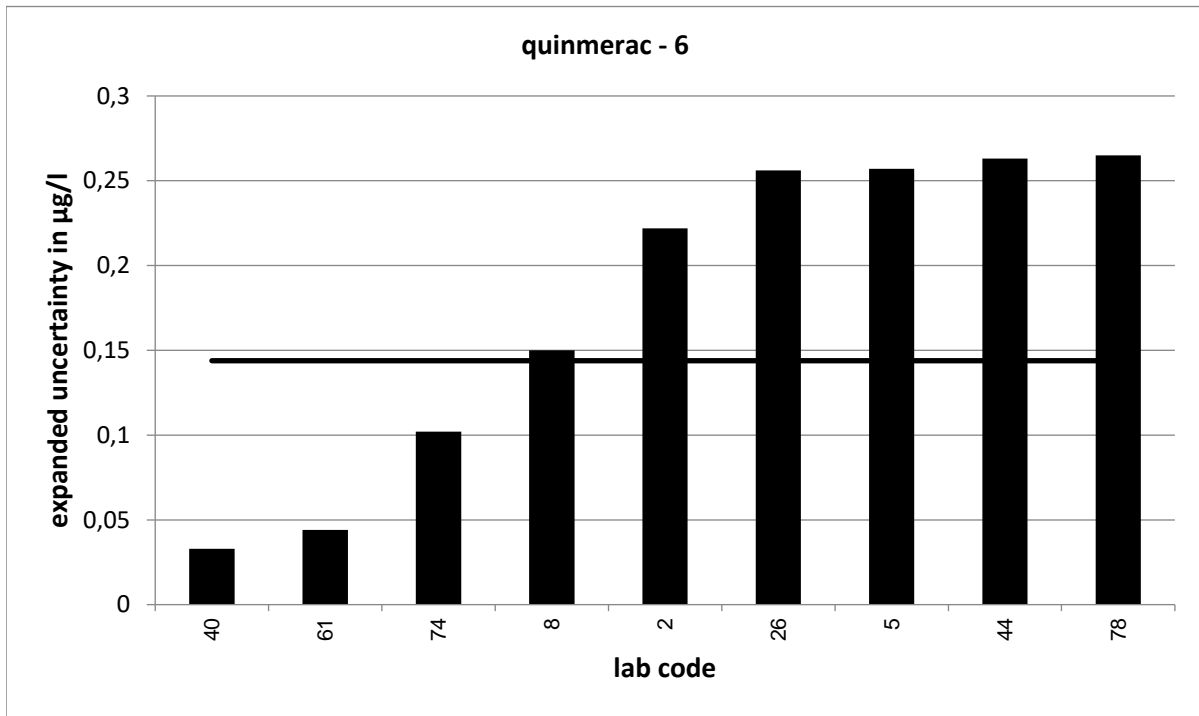


PT 9/24 - TW O4		quinmerac - 6			
assigned value [$\mu\text{g/l}$]*		0,9246 \pm 0,0825			
upper tolerance limit [$\mu\text{g/l}$]		1,293			
lower tolerance limit [$\mu\text{g/l}$]		0,617			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
2	0,918	0,222	-0,1	0,0	s
5	0,858	0,257	-0,5	-0,4	s
8	1,029	0,15	1,2	0,6	s
12	0,983			0,3	s
17	0,103			-5,3	u
20	0,90585			-0,1	s
26	0,985	0,256	0,4	0,3	s
31	1,318			2,1	q
34	1,14			1,2	s
37	0,743			-1,2	s
40	0,724	0,033	-4,5	-1,3	s
42	0,78			-0,9	s
44	0,875	0,263	-0,4	-0,3	s
49	0,985			0,3	s
56	1,02			0,5	s
61	0,126	0,044	-17,1	-5,2	u
64	0,873			-0,3	s
72	0,931			0,0	s
74	0,925	0,102	0,0	0,0	s
78	0,828	0,265	-0,7	-0,6	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



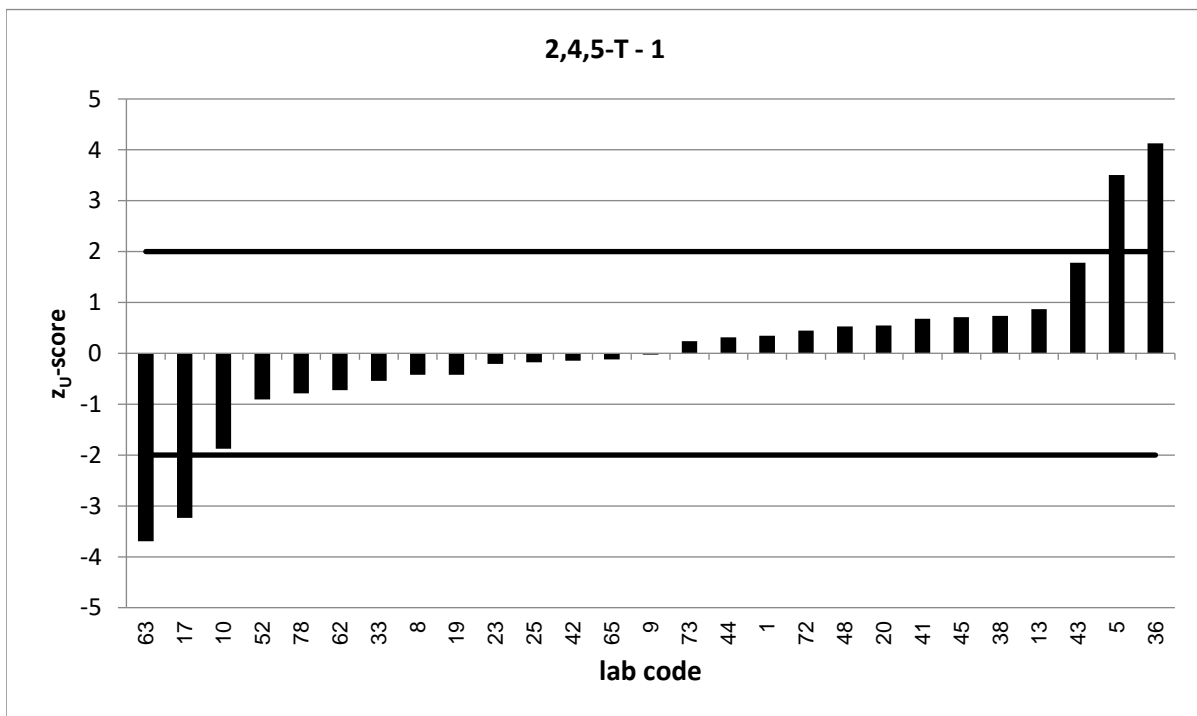
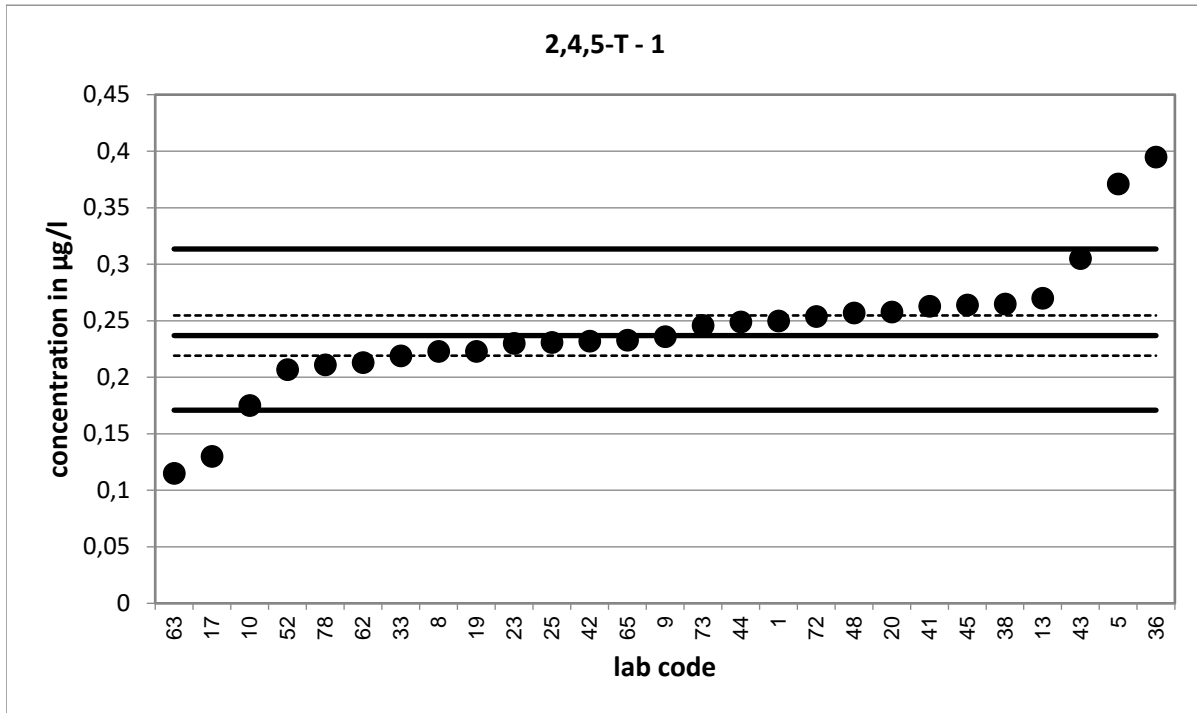


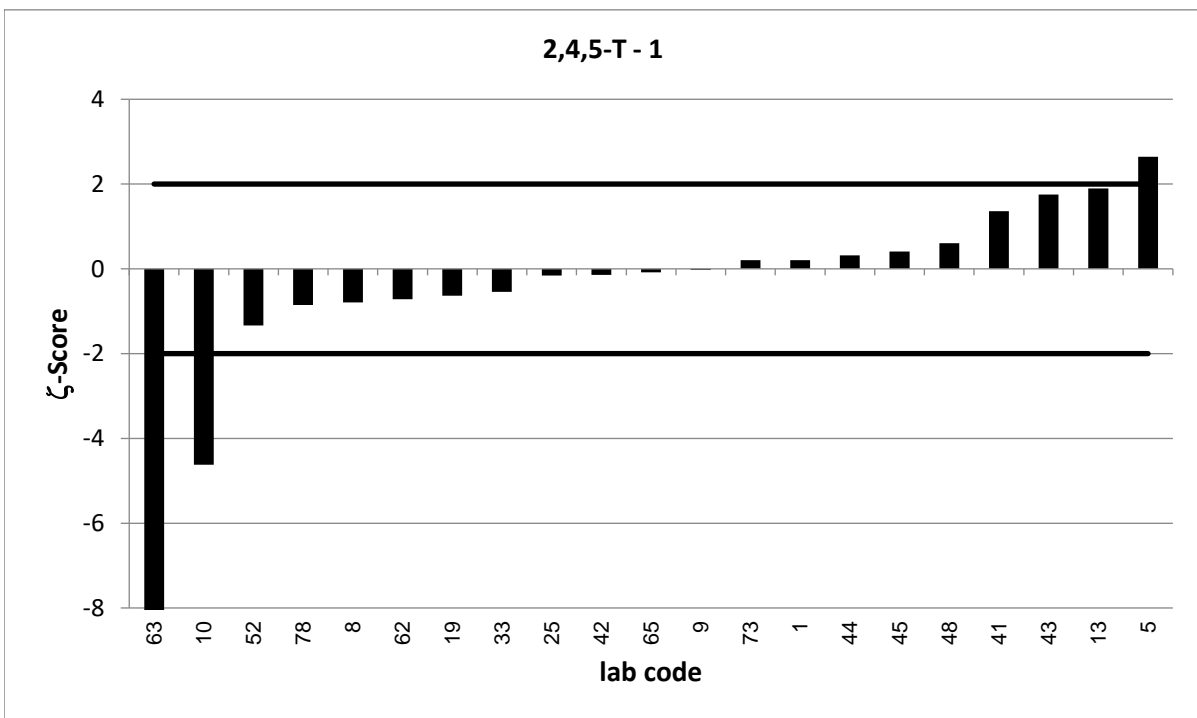
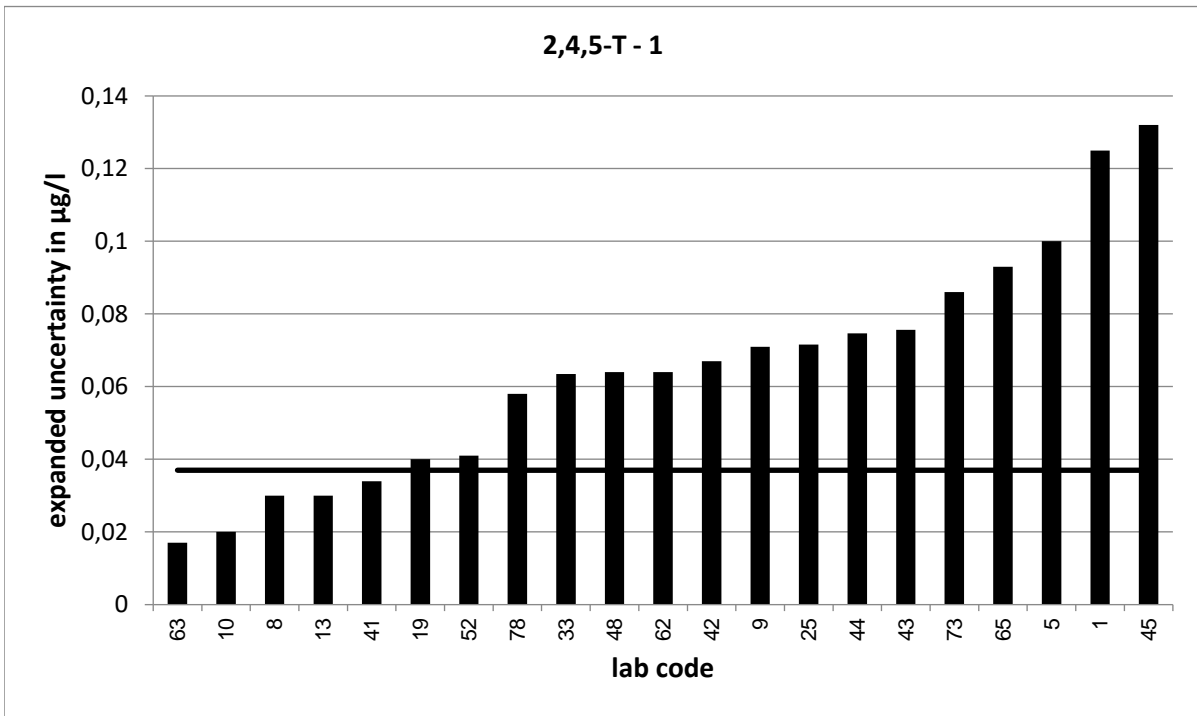
Strongly deviating values are not correctly shown in the diagram.

PT 9/24 - TW O4		2,4,5-T - 1			
assigned value [$\mu\text{g/l}$]*		0,2369 \pm 0,0178			
upper tolerance limit [$\mu\text{g/l}$]		0,3135			
lower tolerance limit [$\mu\text{g/l}$]		0,1709			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
1	0,25	0,125	0,2	0,3	s
5	0,371	0,1	2,6	3,5	u
8	0,223	0,03	-0,8	-0,4	s
9	0,236	0,071	0,0	0,0	s
10	0,175	0,02	-4,6	-1,9	s
13	0,27	0,03	1,9	0,9	s
17	0,13			-3,2	u
19	0,223	0,04	-0,6	-0,4	s
20	0,25787			0,5	s
23	0,23			-0,2	s
25	0,231	0,072	-0,2	-0,2	s
33	0,219	0,064	-0,5	-0,5	s
36	0,395			4,1	u
38	0,265			0,7	s
41	0,263	0,034	1,4	0,7	s
42	0,232	0,067	-0,1	-0,1	s
43	0,305	0,076	1,8	1,8	s
44	0,249	0,075	0,3	0,3	s
45	0,264	0,132	0,4	0,7	s
48	0,257	0,064	0,6	0,5	s
52	0,207	0,041	-1,3	-0,9	s
62	0,213	0,064	-0,7	-0,7	s
63	0,115	0,017	-9,9	-3,7	u
65	0,233	0,093	-0,1	-0,1	s
72	0,254			0,4	s
73	0,246	0,086	0,2	0,2	s
78	0,211	0,058	-0,9	-0,8	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



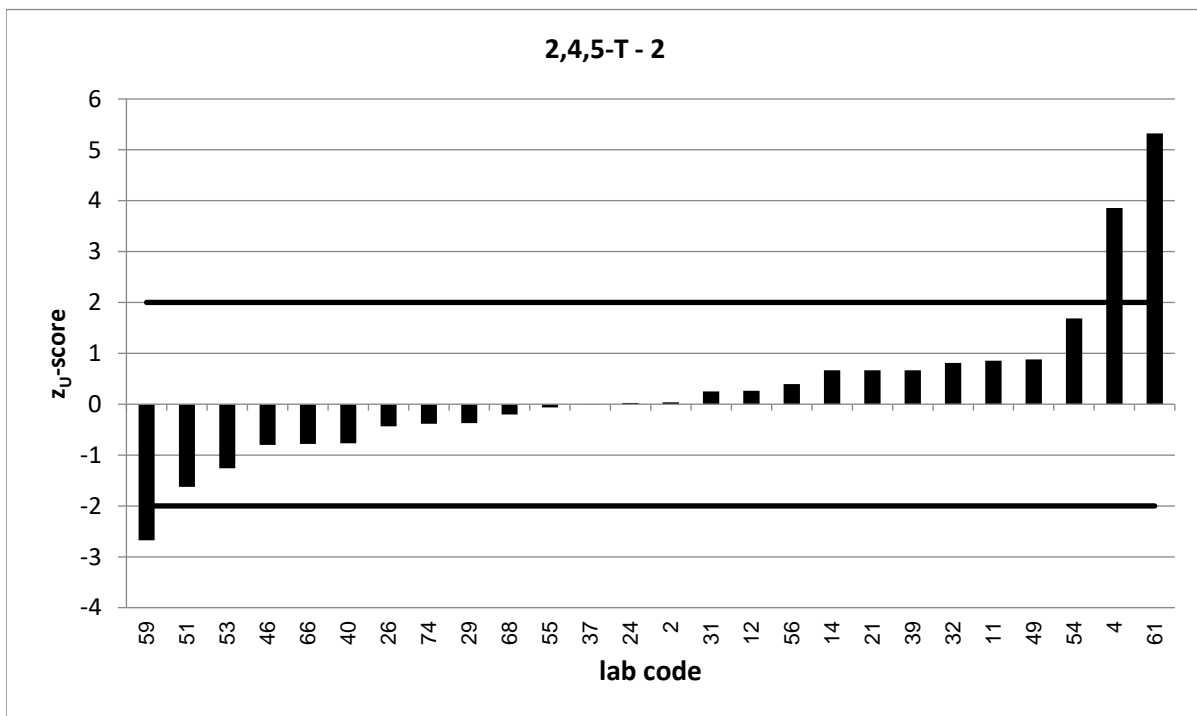
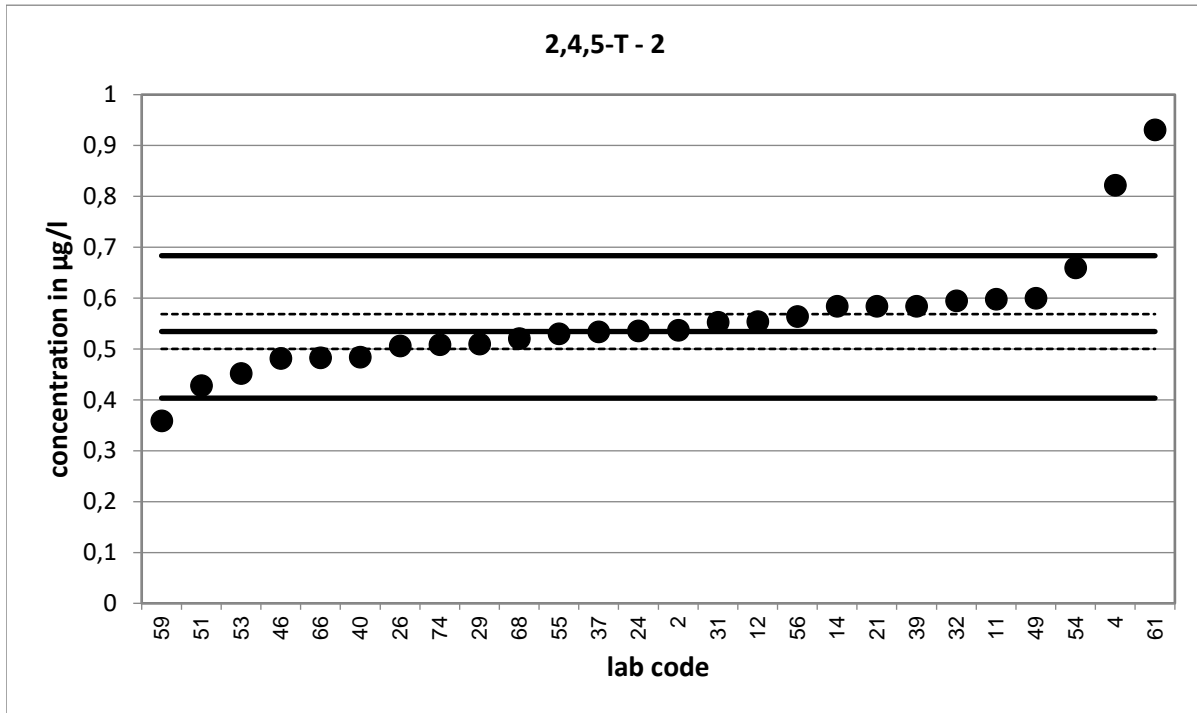


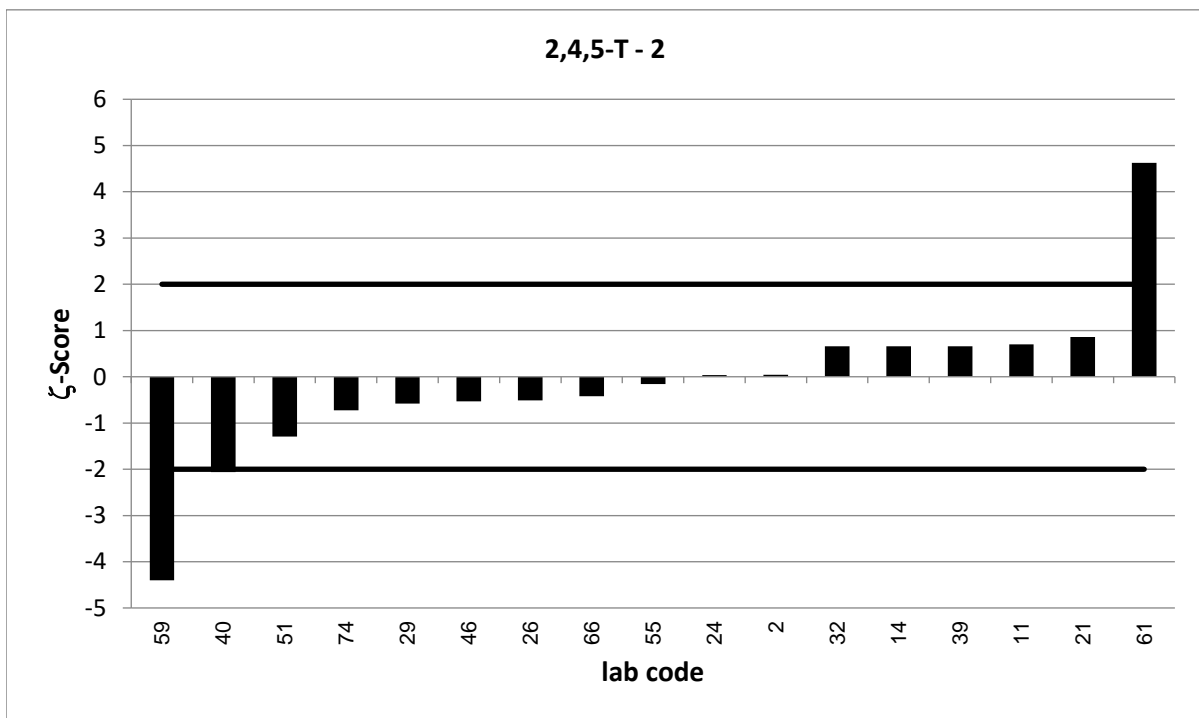
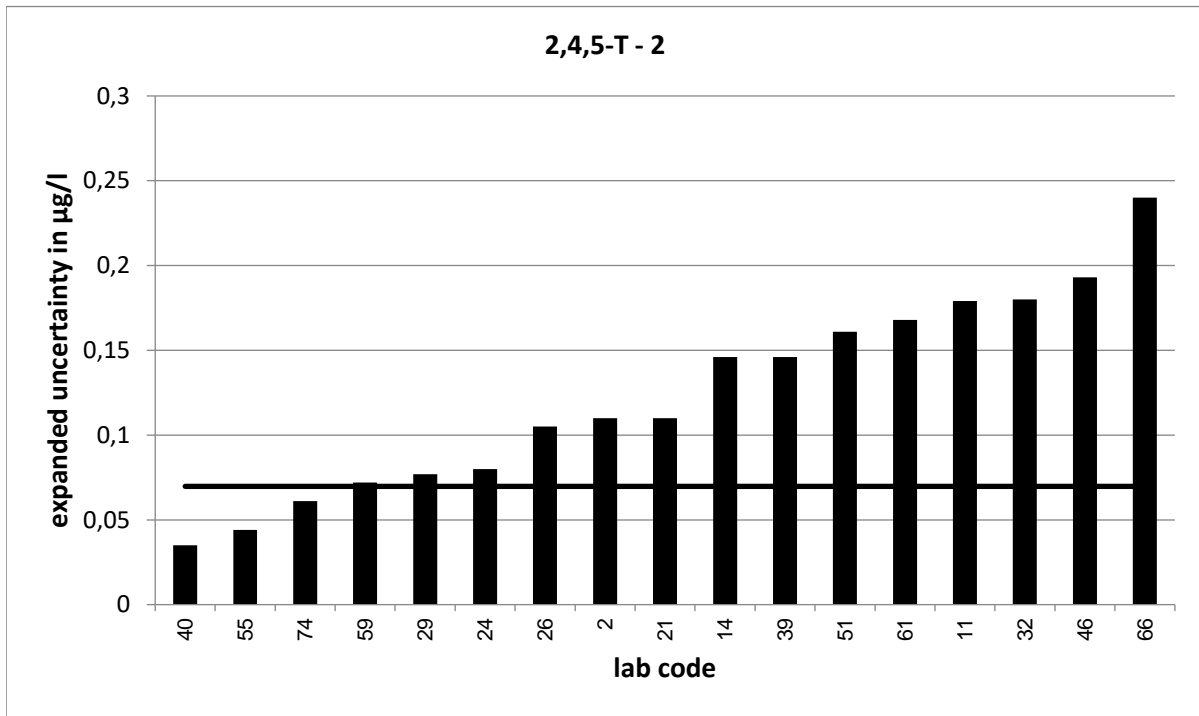
Strongly deviating values are not correctly shown in the diagram.

PT 9/24 - TW O4		2,4,5-T - 2			
assigned value [$\mu\text{g/l}$]*		0,5344 \pm 0,0342			
upper tolerance limit [$\mu\text{g/l}$]		0,6834			
lower tolerance limit [$\mu\text{g/l}$]		0,4034			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
2	0,537	0,11	0,0	0,0	s
4	0,822			3,9	u
11	0,598	0,179	0,7	0,9	s
12	0,554			0,3	s
14	0,584	0,146	0,7	0,7	s
21	0,584	0,11	0,9	0,7	s
24	0,536	0,08	0,0	0,0	s
26	0,506	0,105	-0,5	-0,4	s
29	0,51	0,077	-0,6	-0,4	s
31	0,553			0,3	s
32	0,595	0,18	0,7	0,8	s
37	0,534			0,0	s
39	0,584	0,146	0,7	0,7	s
40	0,484	0,035	-2,1	-0,8	s
46	0,482	0,193	-0,5	-0,8	s
49	0,6			0,9	s
51	0,428	0,161	-1,3	-1,6	s
53	0,452			-1,3	s
54	0,66			1,7	s
55	0,53	0,044	-0,2	-0,1	s
56	0,564			0,4	s
59	0,359	0,072	-4,4	-2,7	q
61	0,931	0,168	4,6	5,3	u
66	0,483	0,24	-0,4	-0,8	s
68	0,521			-0,2	s
74	0,509	0,061	-0,7	-0,4	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory

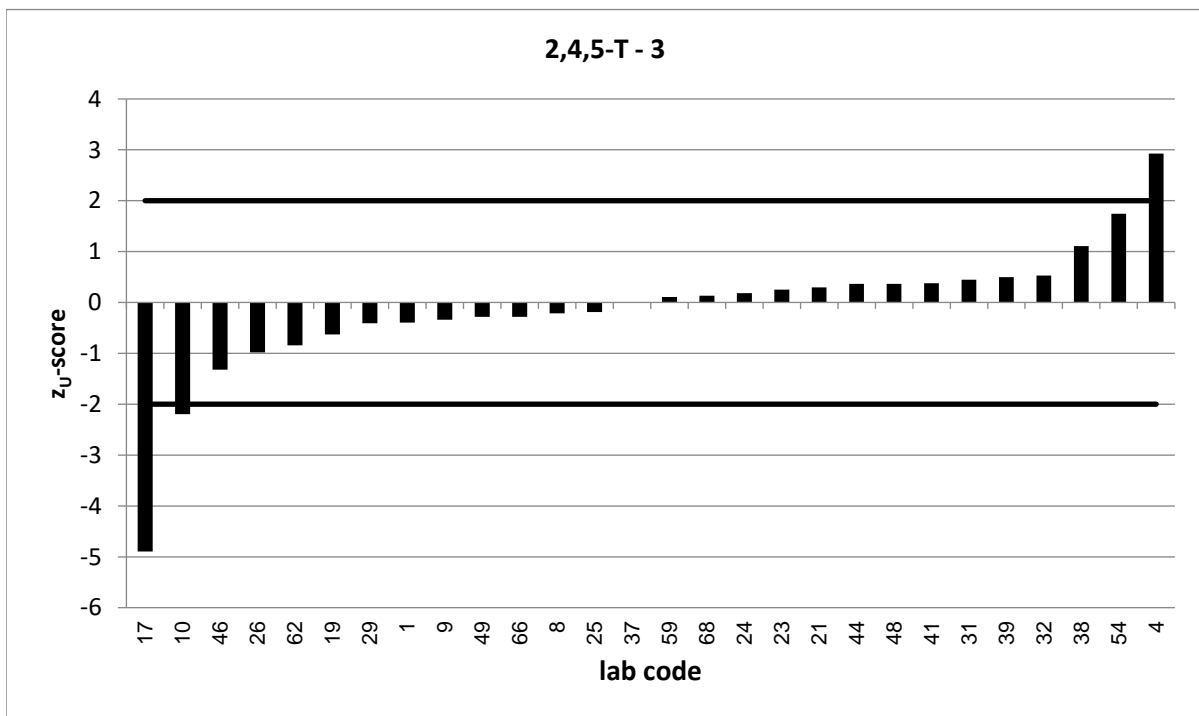
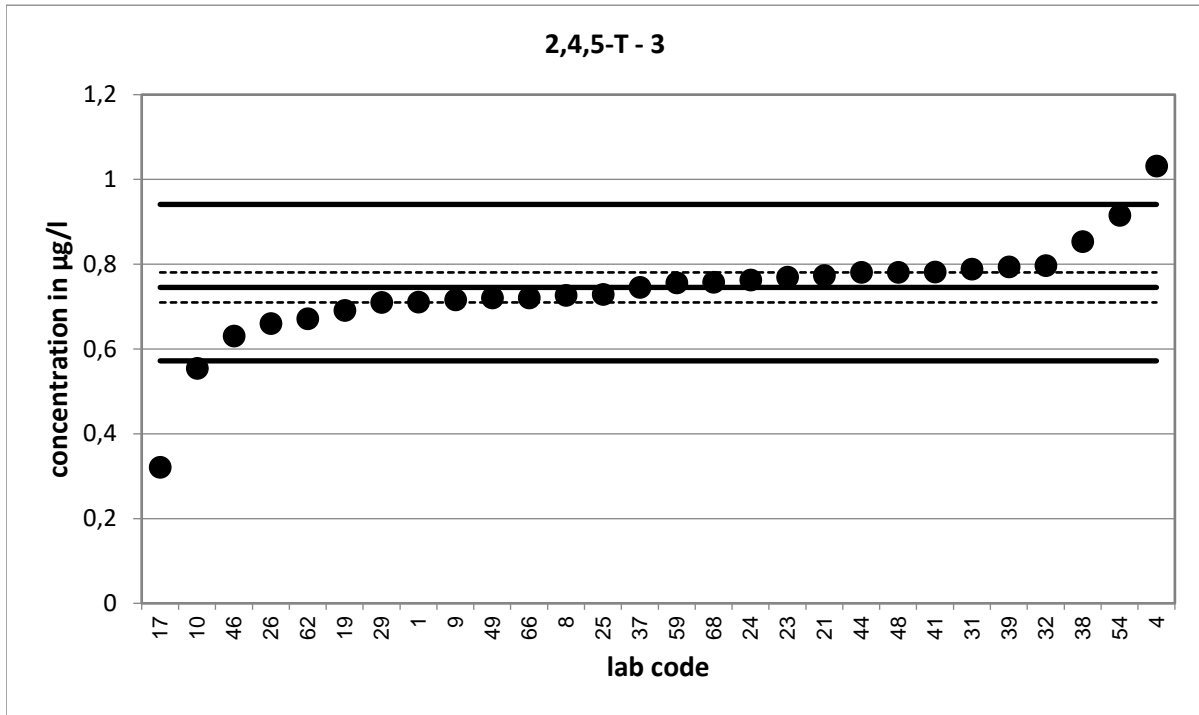


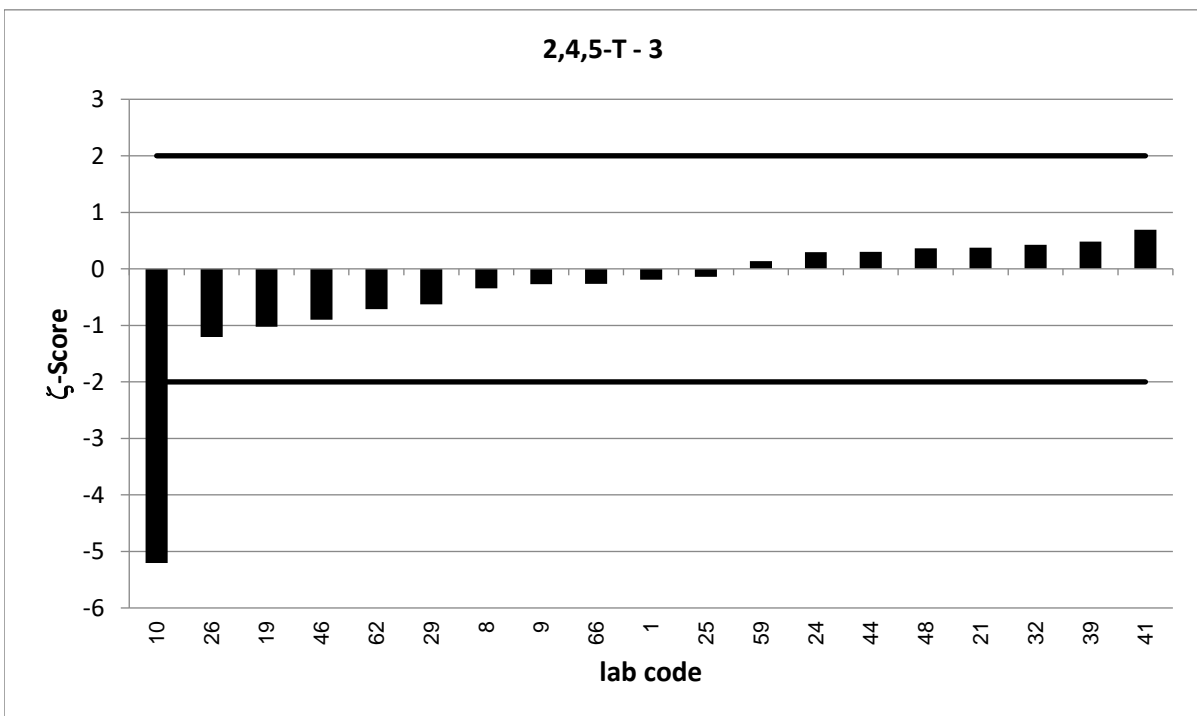
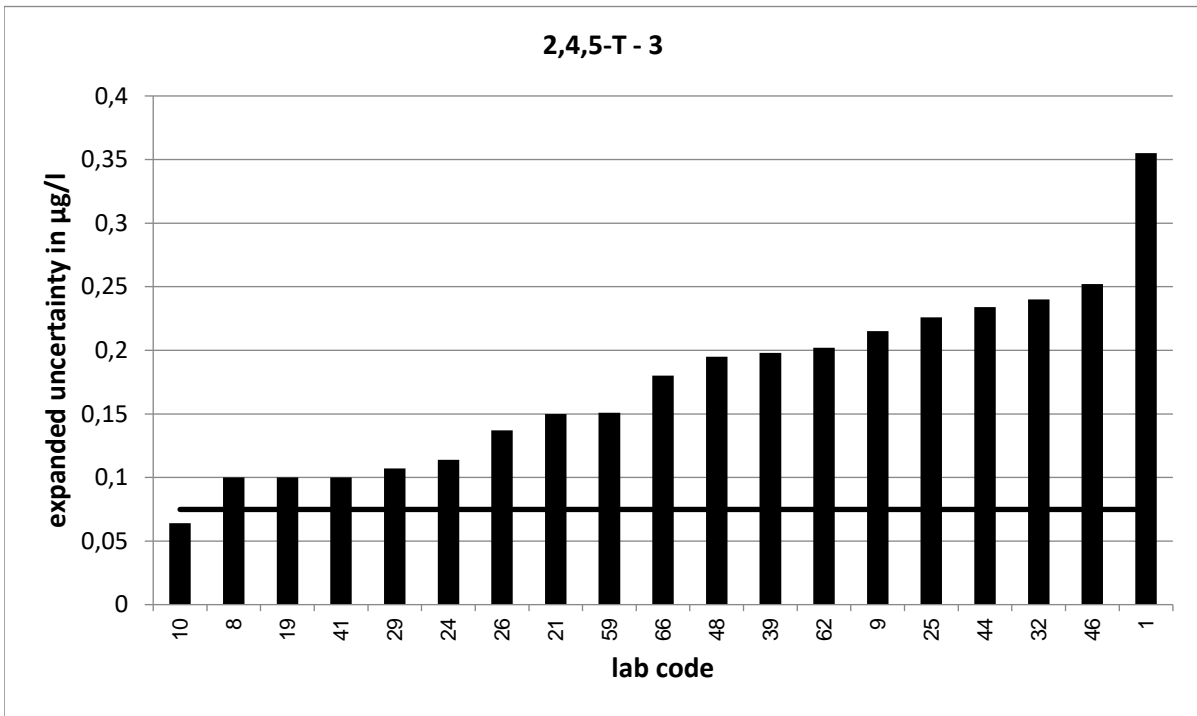


PT 9/24 - TW O4		2,4,5-T - 3			
assigned value [$\mu\text{g/l}$]*		0,7453 \pm 0,0354			
upper tolerance limit [$\mu\text{g/l}$]		0,9411			
lower tolerance limit [$\mu\text{g/l}$]		0,572			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
1	0,711	0,355	-0,2	-0,4	s
4	1,032			2,9	q
8	0,727	0,1	-0,3	-0,2	s
9	0,716	0,215	-0,3	-0,3	s
10	0,555	0,064	-5,2	-2,2	q
17	0,321			-4,9	u
19	0,691	0,1	-1,0	-0,6	s
21	0,774	0,15	0,4	0,3	s
23	0,77			0,3	s
24	0,763	0,114	0,3	0,2	s
25	0,729	0,226	-0,1	-0,2	s
26	0,66	0,137	-1,2	-1,0	s
29	0,71	0,107	-0,6	-0,4	s
31	0,789			0,4	s
32	0,797	0,24	0,4	0,5	s
37	0,746			0,0	s
38	0,854			1,1	s
39	0,794	0,198	0,5	0,5	s
41	0,782	0,1	0,7	0,4	s
44	0,781	0,234	0,3	0,4	s
46	0,631	0,252	-0,9	-1,3	s
48	0,781	0,195	0,4	0,4	s
49	0,721			-0,3	s
54	0,916			1,7	s
59	0,756	0,151	0,1	0,1	s
62	0,672	0,202	-0,7	-0,8	s
66	0,721	0,18	-0,3	-0,3	s
68	0,758			0,1	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory

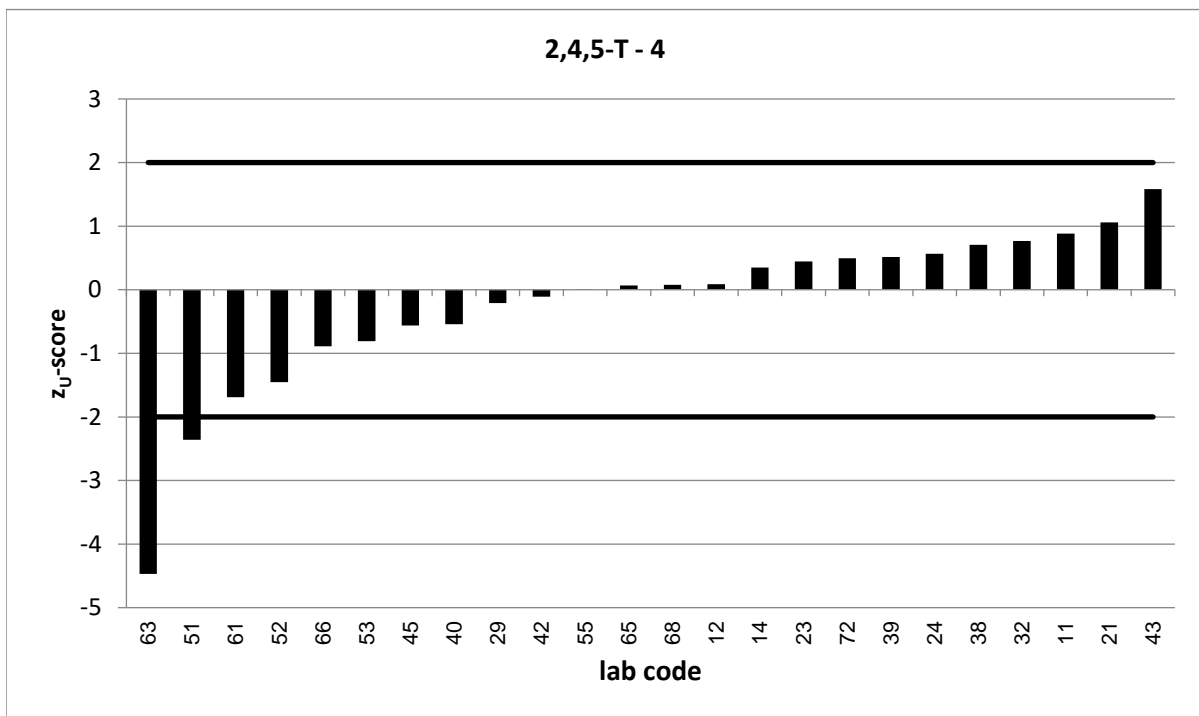
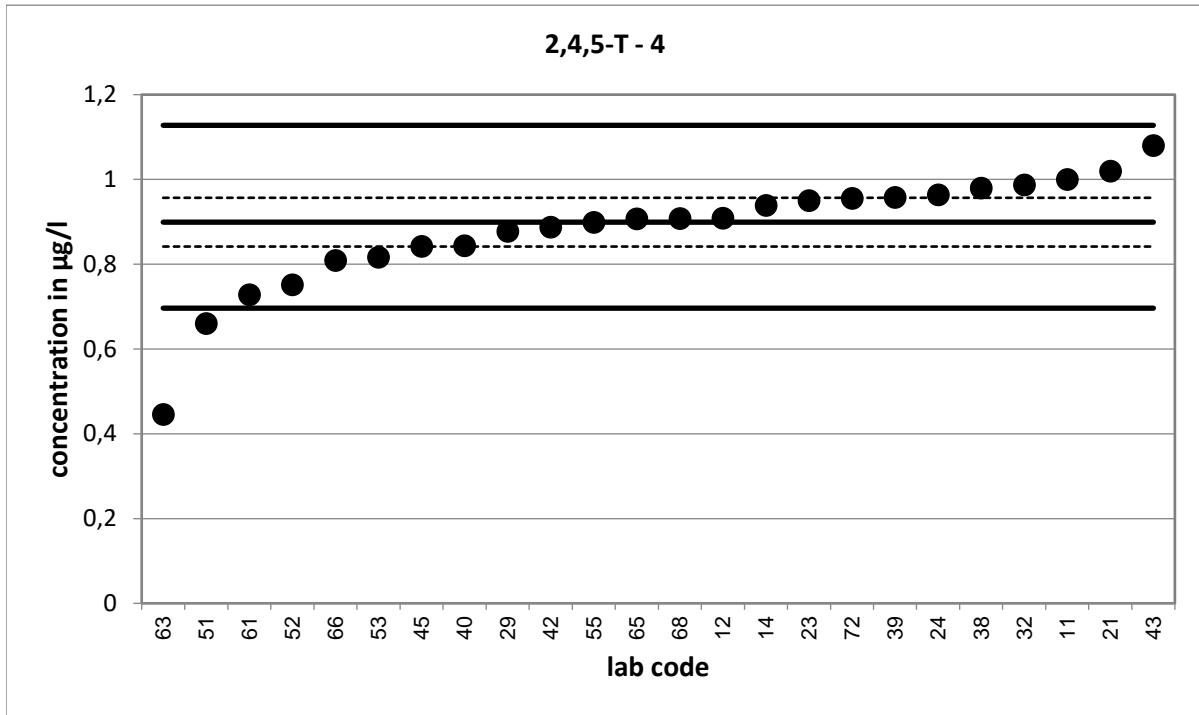


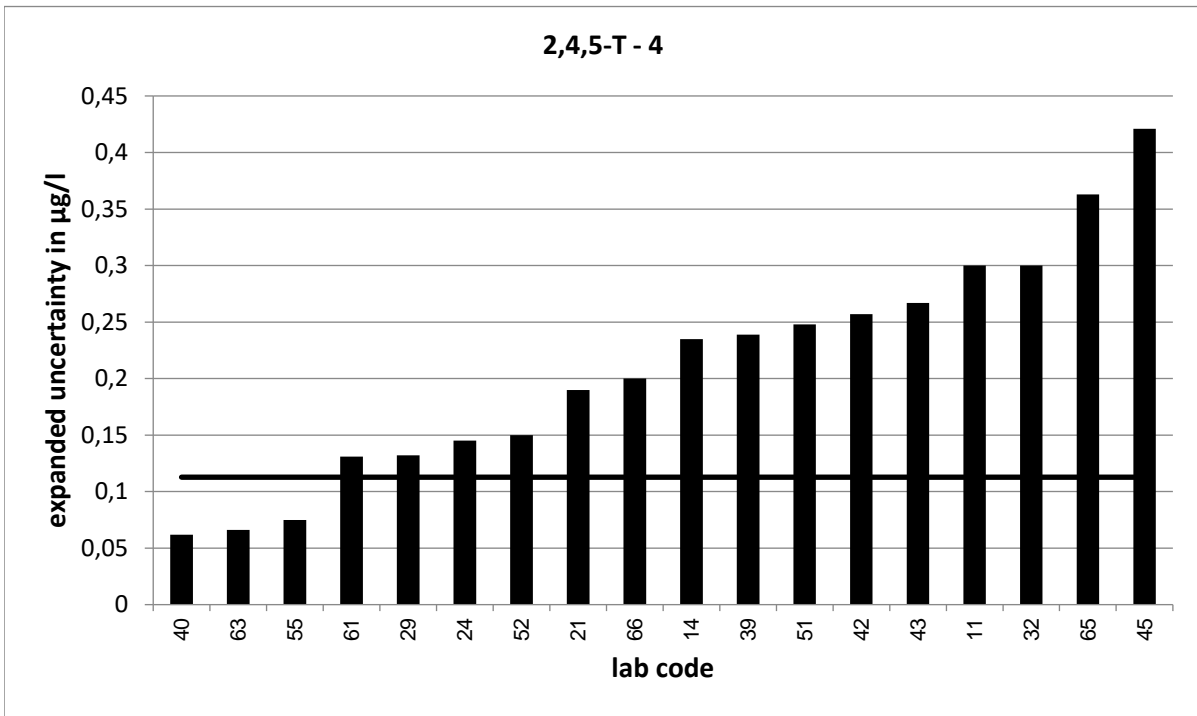


PT 9/24 - TW O4		2,4,5-T - 4			
assigned value [$\mu\text{g/l}$]*		0,8992 \pm 0,0575			
upper tolerance limit [$\mu\text{g/l}$]		1,128			
lower tolerance limit [$\mu\text{g/l}$]		0,6963			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
11	1	0,3	0,7	0,9	s
12	0,909			0,1	s
14	0,939	0,235	0,3	0,3	s
21	1,02	0,19	1,2	1,1	s
23	0,95			0,4	s
24	0,964	0,145	0,8	0,6	s
29	0,878	0,132	-0,3	-0,2	s
32	0,987	0,3	0,6	0,8	s
38	0,98			0,7	s
39	0,958	0,239	0,5	0,5	s
40	0,844	0,062	-1,3	-0,5	s
42	0,888	0,257	-0,1	-0,1	s
43	1,08	0,267	1,3	1,6	s
45	0,842	0,421	-0,3	-0,6	s
51	0,66	0,248	-1,9	-2,4	q
52	0,752	0,15	-1,8	-1,5	s
53	0,817			-0,8	s
55	0,899	0,075	0,0	0,0	s
61	0,728	0,131	-2,4	-1,7	s
63	0,446	0,066	-10,4	-4,5	u
65	0,907	0,363	0,0	0,1	s
66	0,809	0,2	-0,9	-0,9	s
68	0,908			0,1	s
72	0,956			0,5	s

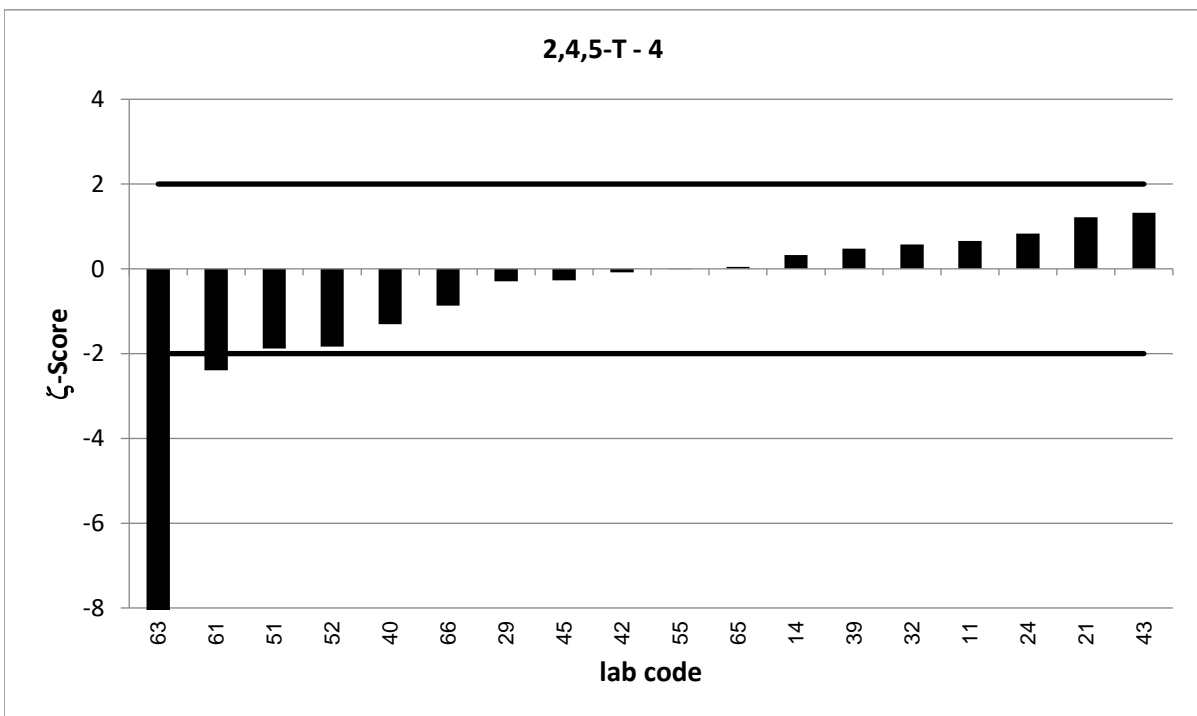
* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory





Strongly deviating values are not correctly shown in the diagram.

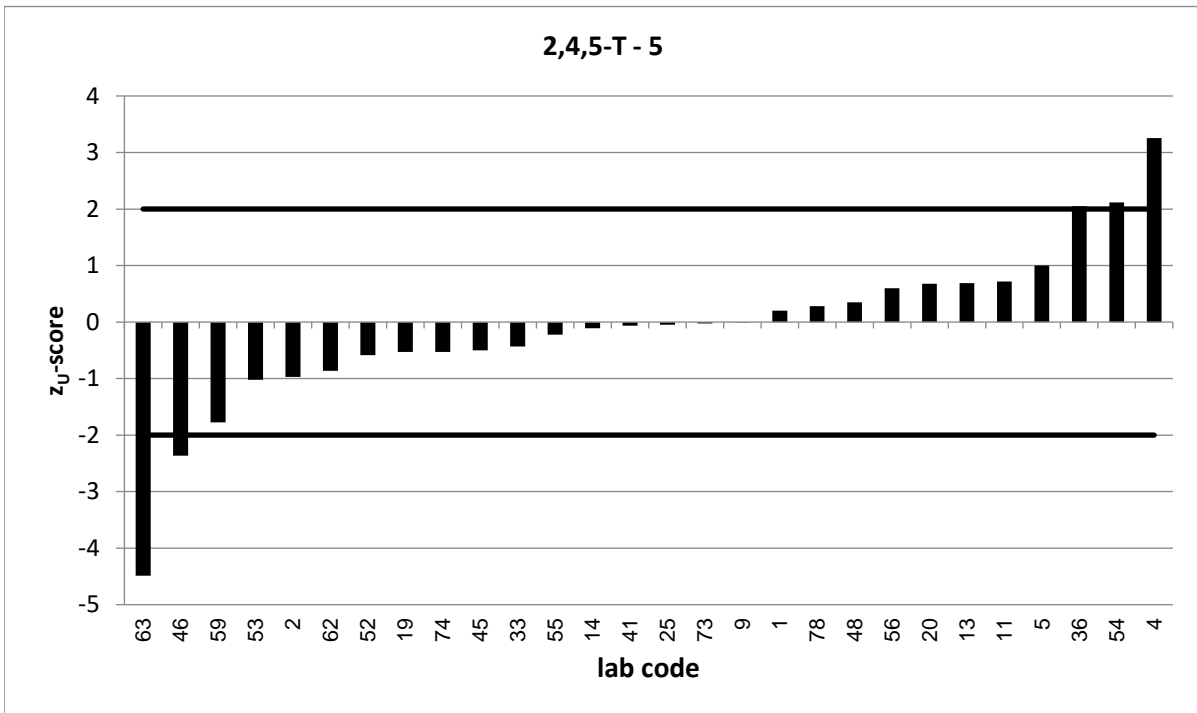
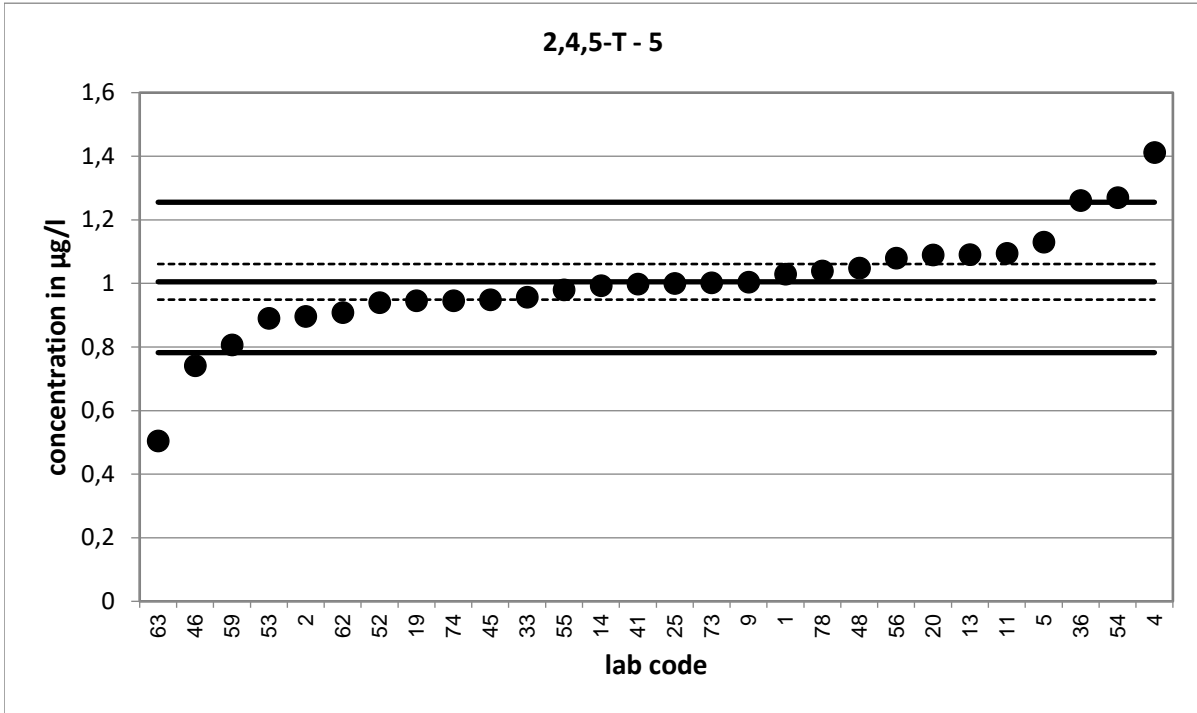


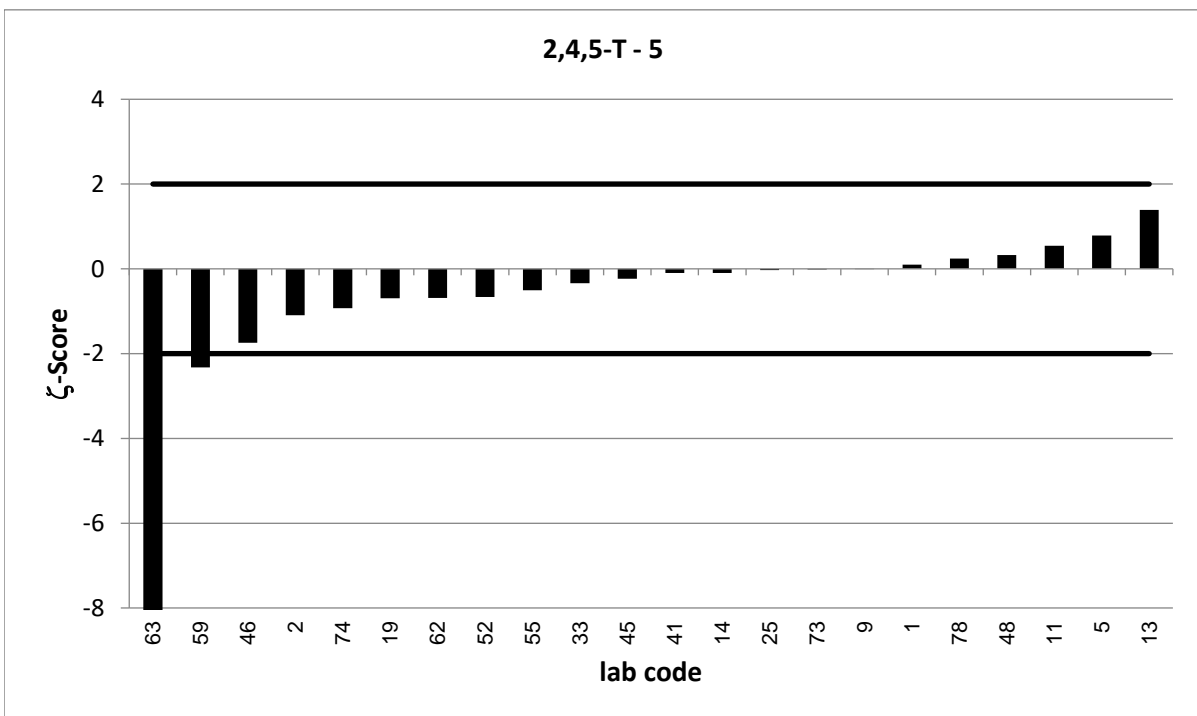
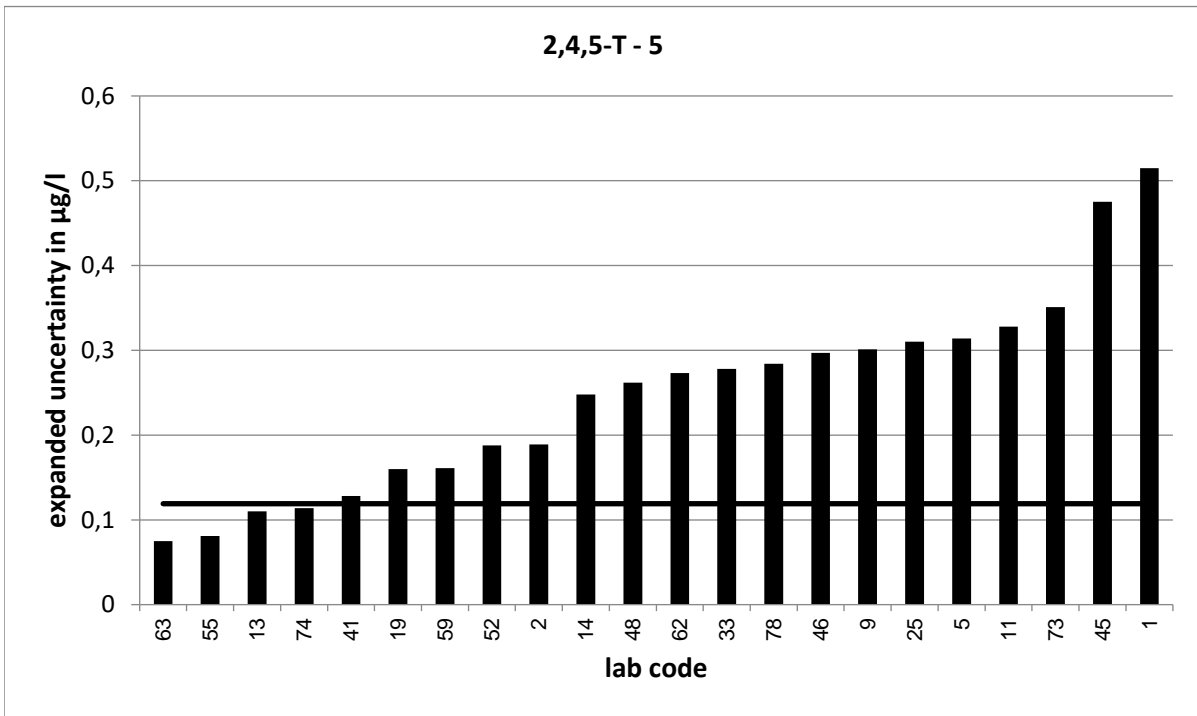
Strongly deviating values are not correctly shown in the diagram.

PT 9/24 - TW O4		2,4,5-T - 5			
assigned value [$\mu\text{g/l}$]*		1,005 \pm 0,056			
upper tolerance limit [$\mu\text{g/l}$]		1,255			
lower tolerance limit [$\mu\text{g/l}$]		0,7822			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
1	1,03	0,515	0,1	0,2	s
2	0,897	0,189	-1,1	-1,0	s
4	1,412			3,3	u
5	1,13	0,314	0,8	1,0	s
9	1,004	0,301	0,0	0,0	s
11	1,095	0,328	0,5	0,7	s
13	1,091	0,11	1,4	0,7	s
14	0,993	0,248	-0,1	-0,1	s
19	0,946	0,16	-0,7	-0,5	s
20	1,08959			0,7	s
25	1	0,31	0,0	0,0	s
33	0,957	0,278	-0,3	-0,4	s
36	1,261			2,0	s
41	0,998	0,128	-0,1	-0,1	s
45	0,949	0,475	-0,2	-0,5	s
46	0,742	0,297	-1,7	-2,4	q
48	1,049	0,262	0,3	0,4	s
52	0,94	0,188	-0,7	-0,6	s
53	0,891			-1,0	s
54	1,27			2,1	q
55	0,98	0,081	-0,5	-0,2	s
56	1,08			0,6	s
59	0,807	0,161	-2,3	-1,8	s
62	0,909	0,273	-0,7	-0,9	s
63	0,505	0,075	-10,7	-4,5	u
73	1,002	0,351	0,0	0,0	s
74	0,946	0,114	-0,9	-0,5	s
78	1,04	0,284	0,2	0,3	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory



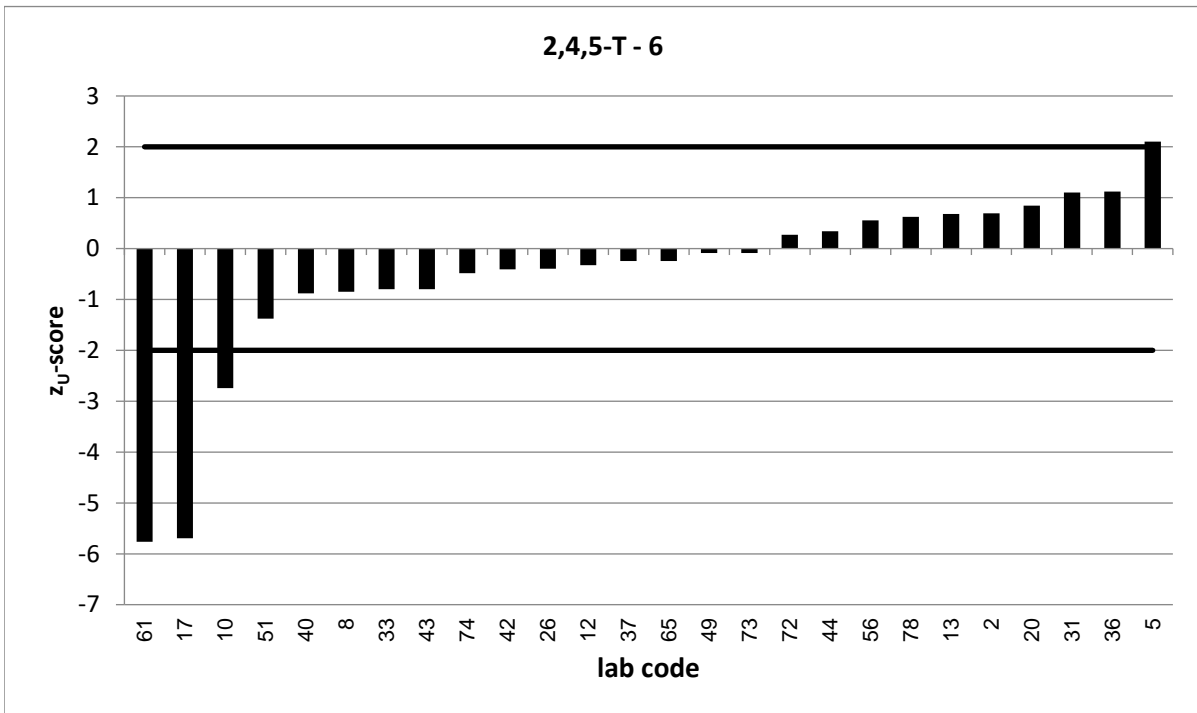
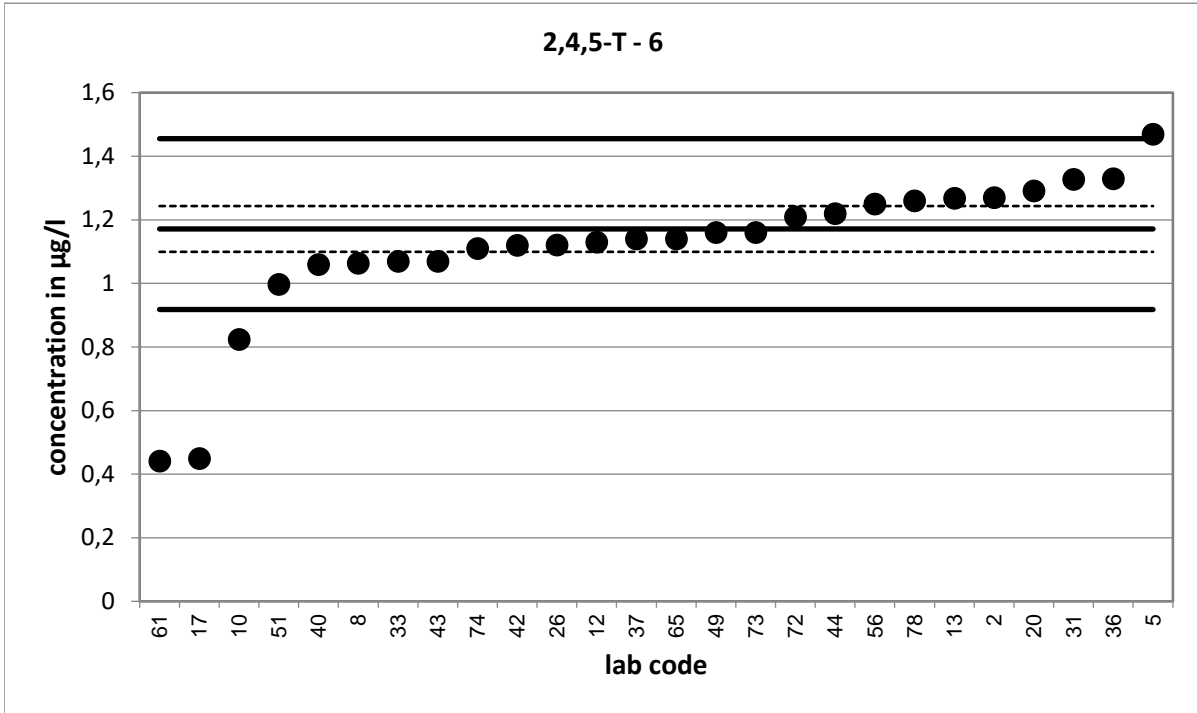


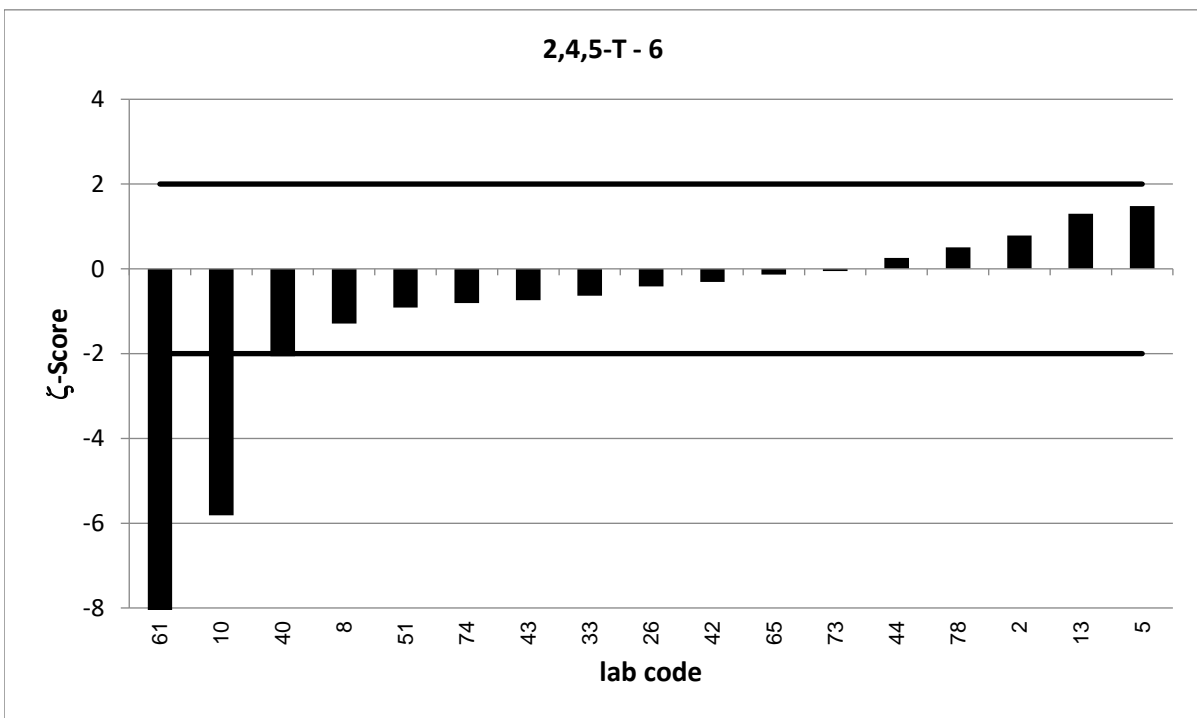
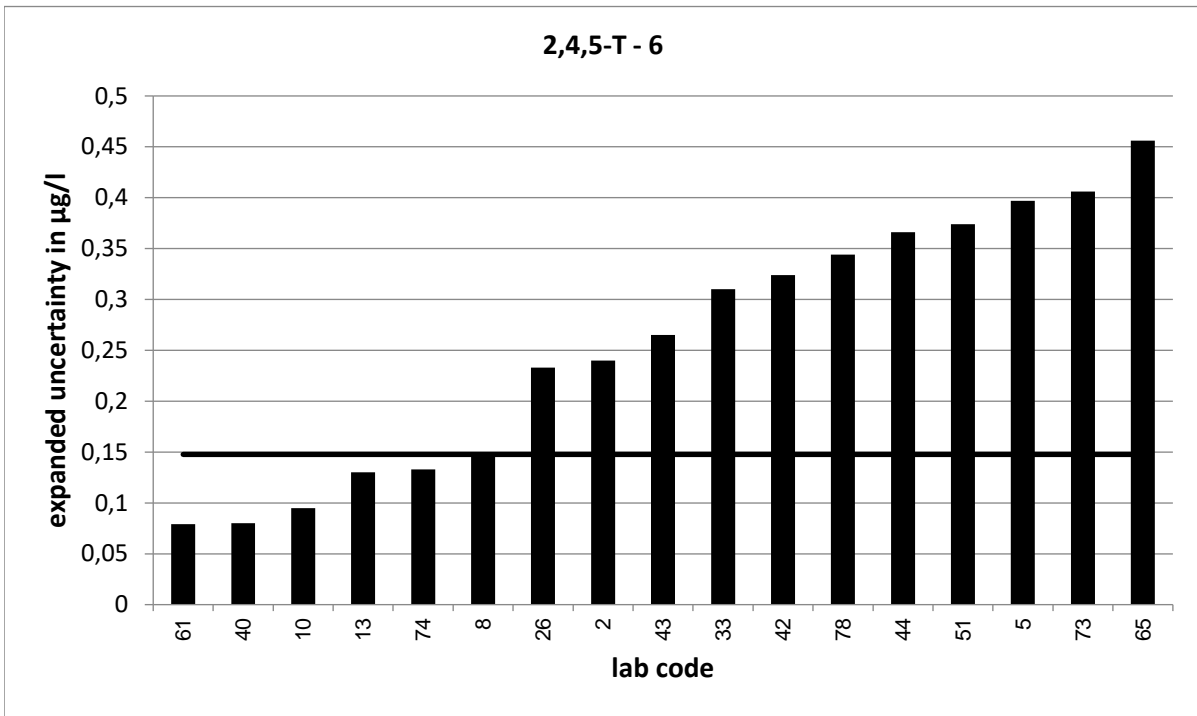
Strongly deviating values are not correctly shown in the diagram.

PT 9/24 - TW O4		2,4,5-T - 6			
assigned value [$\mu\text{g/l}$]*		1,171 \pm 0,072			
upper tolerance limit [$\mu\text{g/l}$]		1,455			
lower tolerance limit [$\mu\text{g/l}$]		0,9179			
lab code	result [$\mu\text{g/l}$]	\pm	z-score	z _U -score	assessm.**
2	1,27	0,24	0,8	0,7	s
5	1,47	0,397	1,5	2,1	q
8	1,064	0,15	-1,3	-0,8	s
10	0,824	0,095	-5,8	-2,7	q
12	1,13			-0,3	s
13	1,268	0,13	1,3	0,7	s
17	0,45			-5,7	u
20	1,29098			0,8	s
26	1,121	0,233	-0,4	-0,4	s
31	1,328			1,1	s
33	1,07	0,31	-0,6	-0,8	s
36	1,33			1,1	s
37	1,14			-0,2	s
40	1,06	0,08	-2,1	-0,9	s
42	1,12	0,324	-0,3	-0,4	s
43	1,07	0,265	-0,7	-0,8	s
44	1,22	0,366	0,3	0,3	s
49	1,16			-0,1	s
51	0,997	0,374	-0,9	-1,4	s
56	1,25			0,6	s
61	0,441	0,079	-13,6	-5,8	u
65	1,14	0,456	-0,1	-0,2	s
72	1,21			0,3	s
73	1,16	0,406	-0,1	-0,1	s
74	1,11	0,133	-0,8	-0,5	s
78	1,26	0,344	0,5	0,6	s

* The stated uncertainty of the assigned value is the expanded uncertainty with a coverage factor $k=2$ corresponding to a confidence level of about 95%

** s = satisfactory, q = questionable, u = unsatisfactory





Strongly deviating values are not correctly shown in the diagram.