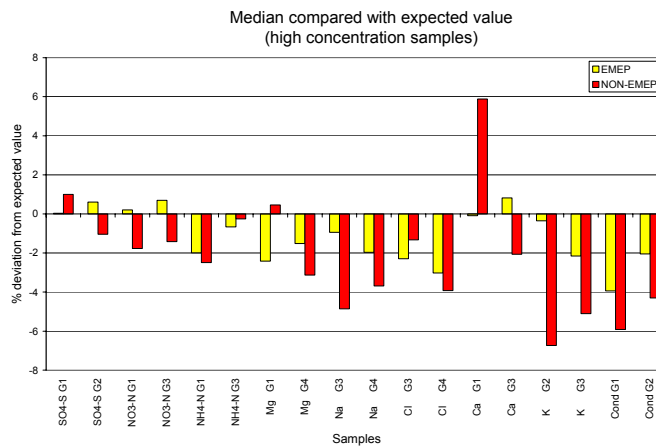
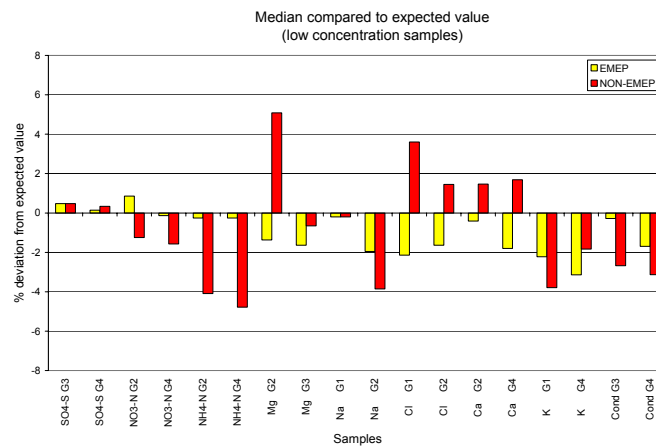


The twentieth intercomparison of analytical methods within EMEP

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**EMEP Co-operative Programme for Monitoring and Evaluation
of the Long-range Transmission of Air Pollutants
in Europe**

**The twentieth intercomparison of
analytical methods within EMEP**

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The twentieth intercomparison of analytical methods within EMEP

1. Introduction

36 different laboratories in European countries are performing chemical analysis of air and precipitation samples within EMEP (Co-operative Programme for Monitoring and Evaluation of Long-range Transmission of Air Pollutants in Europe). Since the measurement programme is based on individual national networks, the participating laboratories apply different sampling and analytical methods. Most of the methods used are described in the manual for sampling and chemical analysis (EMEP, 1996).

In order to improve the data comparability and to get a picture of the different laboratories' performance, interlaboratory comparisons are organised by the Chemical Co-ordinating Centre (CCC) at the Norwegian Institute for Air Research (NILU). So far twenty intercomparisons have been arranged (Hanssen, 1988, 1990; Hanssen et al., 1983; Hanssen and Ladegård, 1984, 1985, 1987; Hanssen and Skjelmoen, 1992, 1994, 1995, 1996, 1997, 2001; Thrane, 1978, 1980a, 1980b, 1981, Uggerud et al., 2001, 2002).

This report gives the results of the twentieth interlaboratory test.

2. Organisation of the intercomparison

The samples for the twentieth intercomparison (see Table 1) were prepared and distributed to 71 laboratories in July 2002. In addition to the European participants, two laboratories in North America received samples as a part of the co-operation between EMEP and the North American networks for acid deposition. Also 19 laboratories within the measurement programme ICP-Forest and 16 laboratories participating in various other measurement programmes were invited to participate in the nineteenth intercomparison.

Most of the laboratories had returned their results to the CCC within one month after the deadline given as 15 September 2002. A total of 59 laboratories have returned their results. This includes 34 EMEP-laboratories, 14 ICP-Forest laboratories and 11 other laboratories.

The participating laboratories received the theoretical (expected) values shortly after CCC had received the results. The laboratories were then asked to compare their results with the expected ones, and give corrected values if obvious mistakes e.g. misprints had occurred. A few corrections were reported. In those cases the corrected values are used in this report. In accordance with the decision of the Steering Body of EMEP, the results are presented in such a way that the different laboratories are identified. Tables 2a and 2b give the names of the participating laboratories together with the numbers used when presenting the results in tables and figures.

Information received on the analytical methods used is given in Tables 3-7.

3. Data handling

The data reported from the participants are presented in Tables 8, 10, 12, 14, 16 and 18-29.

The methods of data analysis are the same as in earlier intercomparisons. The results for the samples are presented in the tables in decreasing order together with the number of the laboratory. The expected (theoretical) value, the number of results, the arithmetic mean value, the median, the standard deviation and the relative standard deviation in percent are also given. After the first statistical run with all results included, the calculation was repeated with the outliers excluded. The outliers (unused) are defined as the results more than two standard deviations from the mean value in the first run.

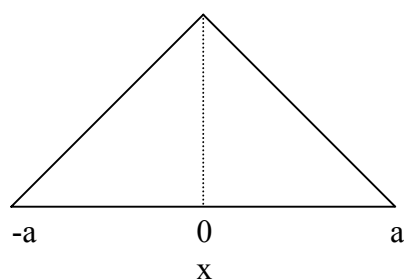
Bar-plots are used for the graphical presentation of the data. Figure 1–Figure 15 are showing the relative deviation from expected value for the different laboratories. There is one plot for each single sample.

Figure 16 gives medians compared to expected value for the results reported by EMEP-laboratories and the other participating laboratories, respectively.

Table 34 presents relative random and relative systematic errors obtained by the different laboratories in the analysis of each parameter in the precipitation samples. The calculation method and assumptions used are given in chapter 3.1 and chapter 3.

3.1 Estimating random errors from laboratory comparisons

Systematic errors or bias in the laboratory analyses give a constant shift in the results from the expected ones at a particular concentration level. It is assumed that laboratories taking part in comparisons will obtain results near the expected ones when this bias is removed, and that the differences between expected and obtained results more often will be close to zero than not. A triangular distribution, based upon this assumption, can be used to quantify the random errors in the laboratory results (Eurachem, 2000).



The triangle distribution is symmetric with a baseline $2a$. The height in the triangle will be $1/a$ when the triangle area equals 1. The standard uncertainty is given by

$$u(x) = \frac{a}{\sqrt{6}} \quad (1)$$

and more than 95 % of the data will be within $\pm 2 \cdot u(x)$. The distance from $-a$ to a (i.e. $2a$) is called the range. When applied on the laboratory comparison results, the range equals the distance between the largest and smallest of the four differences between expected and found concentrations. As long as the bias can be assumed to be constant for the samples in the comparison of a specific component, it cannot have an effect on the distance corresponding to $2a$. The bias may be dependent upon the concentrations, but can be considered approximate constant for the concentrations used here in the comparison of the main components in precipitation, since the differences between the concentrations are small.

L and T represent the laboratories' and the expected concentrations respectively, and D is the difference. The difference for the lowest concentration is

$$D_1 = L_1 - T_1 \quad (2)$$

and the differences are D_1, D_2, D_3, D_4 in increasing order.

The range is $D_4 - D_1$ and the standard uncertainty for the differences $u(D)$ becomes

$$u(D) = \frac{(D_4 - D_1)}{(2 \cdot \sqrt{6})}. \quad (3)$$

The average expected concentration T for the four samples is given by

$$T = \frac{(T_1 + T_2 + T_3 + T_4)}{4} \quad (4)$$

The relative standard uncertainty, RSD, for 4 samples is given by $\frac{u(D)}{T}$, or

$$RSD = \frac{2 \cdot (D_4 - D_1 \cdot 100)}{\sqrt{6} \cdot (T_1 + T_2 + T_3 + T_4)} \%, \quad (5)$$

and 95 per cent of the laboratory results in this comparison are expected to be within $\pm 2 \cdot RSD$.

If the data quality objectives (DQO) likewise are looked upon as 95 percentiles, then 95 per cent of the laboratory analytical results should not be more than 10 or

15 per cent from the correct values (10 per cent for S and N containing components and 15 per cent for other components).

Correspondingly, the values 2·RSD should therefore be less than 10 or 15 per cent in order to comply with the DQO.

3.2 Estimating systematic errors from laboratory comparisons

An estimation of bias in single measurements requires a long data series, and four samples as we normally have in laboratory comparison, are merely able to give an indication of the bias or a very coarse estimate.

Coarse estimates have been performed here in the cases where the four samples had similar concentrations and where all four laboratory results were either higher or lower than the expected concentrations. The median of the differences D_i , as defined above, was taken as a measure of the bias, B , in these cases.

$$B = \text{median}[D_i] \quad (6)$$

A relative bias, RB, was also calculated based upon the average expected concentration T , as defined in (4).

$$RB = \frac{4 \cdot \text{median}[D_i] \cdot 100}{(T_1 + T_2 + T_3 + T_4)} \% \quad (7)$$

4. Results

4.1 Sulphur dioxide in absorbing solution

Four samples and one blank solution were distributed to the laboratories that use the hydrogen peroxide absorption solution method. The results are given in Table 8 and Figure 1. For those laboratories that reported a blank value this has been subtracted from the reported results. The ratios of measured value to expected value are presented in Table 9.

The sulphate concentration in the sample solutions correspond to a SO_2 concentration in air of 2.70–6.79 $\mu\text{g S m}^{-3}$, when 70 ml absorbing solution and 3.6 m^3 sampling volume is used.

Six laboratories use hydrogen peroxide absorption solution method for determination of SO_2 in air. Five of these laboratories reported intercomparison results. In addition, laboratory 15 analysed the absorption solution samples. No outlying results were reported. Two laboratories reported values that deviated more than 20% from expected value, while the rest of the laboratories reported values that deviated less than 10%. The relative standard deviation is 8.1-24.2%. The average ratio is presented in Table 9. Four out of six laboratories have a ratio between 0.90 and 1.10. This is the same as last year.

4.2 Sulphur dioxide and nitric acid on impregnated filter

Five impregnated filter samples (including one blank) for determination of sulphur dioxide were analysed by 19 laboratories. The value reported for the blank filter was subtracted from the other values before the data were used. The results are presented in Table 10 and Figure 2.

The amount of sulphur on the distributed filters corresponds to air concentrations between $0.80\text{-}2.56 \mu\text{g S m}^{-3}$ when 25 m^3 is sampled.

Laboratories 22 and 138 reported two and four outlying results, respectively. The relative standard deviation is 7.6-23.2 when outliers are excluded. Eight laboratories reported values that deviated between 10-20% from expected value, while nine laboratories reported values that deviated more than 20%.

44 values out of a total of 76 had an error less than 10% when compared to expected value. 17 (22.4%) of the reported values had an error greater than 20%. The average ratios are presented in Table 11. Nine out of 19 laboratories had a ratio between 0.9 and 1.10. This is not as good as last year's result.

In addition to sulphur dioxide, nitric acid was added to the same impregnated filters for determination of $\text{HNO}_3\text{-N}$. The value reported for the blank filter was subtracted from the other values before using the data.

The amount of nitrogen on the distributed filters corresponds to air concentrations between $0.39 \mu\text{g N m}^{-3}\text{-}1.37 \mu\text{g N m}^{-3}$ when 25 m^3 sampling volume is used.

19 laboratories reported results for determination of $\text{HNO}_3\text{-N}$ on impregnated filters. The results are presented in Table 12 and Figure 3. Laboratory 11 reported four outlying results, while laboratories 22 and 5 reported two and one outlying result, respectively. The relative standard deviation is between 3.9-8.0%, when outliers are excluded. Four laboratories reported values that deviated between 10-20% from expected value and three laboratories reported values that deviated more than 20%.

64 values (82.4%) out of a total of 76 deviated less than 10% from expected value. Seven values (9.2%) had an error greater than 20% when compared to expected value. The average ratios are presented in Table 13. 15 out of a total of 19 laboratories had average ratio between 0.9-1.10. This is slightly better than the results obtained last year.

4.3 Nitrogen dioxide in absorbing solution

The four samples distributed were made to represent both absorption solutions and extracts from iodide-impregnated glass filters. The samples contain known amounts of sodium nitrite diluted in water. In order to assure sample stability and to give the laboratories the opportunity to use the matrix they use in their daily routine, the distributed samples were to be diluted 1:10. The results should be reported as the diluted concentrations.

The 10 times diluted samples correspond to air concentrations between 3.4-6.75 $\mu\text{g NO}_2\text{-N m}^{-3}$, when 70 ml absorbing solution and 1.4 m^3 are used. If 4 ml extraction solution and 0.7 m^3 sampling volume are used, the samples correspond to air concentrations between 0.39-0.77 $\mu\text{g NO}_2\text{-N m}^{-3}$.

The results are presented in Table 14 and Figure 4. Laboratory 31 reported three outlying results. Two laboratories reported values between 10-20% away from expected value, while only one laboratory reported values that deviated more than 20%. The relative standard deviation is between 4.1-7.2%, when outliers are excluded. This is about the same as obtained last year.

The average ratio is presented in Table 15. 18 out of a total of 19 laboratories had a ratio between 0.90-1.10, which is a satisfactory result.

4.4 Ammonia on impregnated filters

For the second time impregnated filters for determination of ammonia were distributed. Six impregnated filters inclusive two unidentified blank filters were sent to 21 laboratories. 19 laboratories have reported their analytical results. The two blank values reported by each laboratory were averaged and subtracted from the other values reported before the data were used. The results are shown in Table 16 and Figure 5.

The amount of nitrogen on the filters correspond to air concentrations between 0.30-1.52 $\mu\text{g N m}^{-3}$, if 25 m^3 sampling volume is used.

Laboratory 32 reported three outlying results, while laboratories 4, 10 and 32 reported one outlying result each. 12 laboratories reported values that deviated between 10-20% from expected value, while nine laboratories reported values that deviated more than 20%.

39 values (51.3%) had an error less than 10% when compared to expected value. Average ratios are given in Table 17. 18 out of 19 laboratories had an average ratio between 0.90-1.10. This is better than in the last intercomparison.

4.5 Precipitation

Four precipitation samples were distributed and 2437 single results from 59 laboratories were reported. 32 of the reporting laboratories are within EMEP. Most of these laboratories now perform the full precipitation programme in EMEP.

4.5.1 Sulphate

A total of 56 laboratories reported results from determination of sulphate. The results are given in Table 18 and Figure 6. Outlying results were reported from laboratories 130 and 138, which reported outlying results for all four samples. The relative standard deviation is in the region of 8.1-9.2% when outliers are excluded. This is slightly higher than last year. Seven laboratories reported values between 10-20% and five laboratories reported values more than 20% away from expected value.

4.5.2 Nitrate

A total of 57 laboratories reported values of nitrate. The results are presented in Table 19 and Figure 7. Laboratory 116 reported one outlying result, while laboratory 138 reported outlying results for all four samples. The relative standard deviation is in the region of 9.3-13.7% when outliers are excluded. This is slightly higher compared to last year. Four laboratories reported values between 10-20% from expected value and four laboratories reported values that deviated more than 20%.

4.5.3 Ammonium

56 laboratories reported results from determination of ammonium. The results are presented in Table 20 and Figure 8. Laboratory 40 reported three, laboratory 166 reported two and laboratories 136, 120, 112, 18 and 3 reported one outlying result each. The relative standard deviation is in the region of 6.3-19.5%. This is not as good as obtained last year. 15 laboratories reported values between 10-20% from expected value and 10 laboratories reported values that deviated more than 20%.

4.5.4 pH and strong acid

Table 21, Table 22 and Figure 9 present the results from pH measurements and determination of strong acid. 57 laboratories reported results from pH measurements.

Laboratory 137 reported three outlying results, while laboratories 133, 17 and 3 reported one outlier each. Five laboratories reported values that deviated more than 0.2 pH units from the expected value. Compared to the obtained median value, four laboratories reported values deviating more than 0.2 pH-units.

In order to obtain more realistic standard deviation values, the pH-data are recalculated to H⁺. The results are presented in Table 22. The relative standard deviation varies between 7.4% and 11.1%.

15 laboratories have determined strong acid by titration. The results are presented in Table 23. Laboratory 140 reported one outlying result.

4.5.5 Chloride

58 laboratories reported results from determination of chloride. The results are presented in Table 24 and Figure 10. Laboratory 137 reported outlying results for 3 samples, laboratory 107 and 17 reported outlying results for 2 samples, while laboratories 133, 131, 116, 109, 40 and 22 reported one outlying result each. The relative standard deviation is between 5.24-28.5%, when outliers are excluded.

19 laboratories reported values between 10% and 20% from expected value. 15 laboratories reported values that deviated more than 20% from expected value.

4.5.6 Sodium

A total of 55 laboratories reported results from determination of sodium. Table 25 and Figure 11 presents the results. Laboratory 136 reported outlying results for all four samples, while laboratories 135, 121, 116, 22 and 17 reported one outlying

result each. The relative standard deviation is between 8.15% and 10.3% when outliers are excluded.

22 laboratories reported values between 10% and 20% from expected value. 15 laboratories reported values that deviate more than 20% from expected value.

4.5.7 Magnesium

A total of 54 laboratories reported values from determination of magnesium. The results are presented in Table 26 and Figure 12. Laboratory 136 reported outlying results for all four samples. The relative standard deviation is between 13.1-18.6% when outliers are excluded. 16 laboratories reported results that deviated between 10-20% from expected value. 11 laboratories reported values that deviated more than 20%.

4.5.8 Calcium

A total of 55 laboratories reported values from determination of calcium. The results are presented in Table 27 and Figure 13. Laboratory 136 reported outlying results for all four samples. The relative standard deviation is between 17.39-37.4% when outliers are excluded. 24 laboratories reported values between 10% and 20% from expected value. 16 laboratories reported values that deviated more than 20% from expected value.

4.5.9 Potassium

55 laboratories reported values from determination of potassium. The results are given in Table 28 and Figure 14. Laboratory 136 reported three outlying results, laboratories 115 and 4 reported two, while laboratory 11 reported one outlying result. 17 laboratories reported values between 10% and 20% from expected value. 18 laboratories reported values that deviated more than 20%.

4.5.10 Conductivity and ion balance

The results from the conductivity measurements are given in Table 29 and Figure 15. Laboratories 40 and 24 reported outlying results for all four samples, while laboratories 20, 23 and 115 reported two outliers each.

The standard deviation is in the range 4.5-6.3% when outliers are excluded. This is the same as in earlier intercomparisons. 20 values (9%) are reported between 10-20% from expected value and 16 (7%) of the reported values deviates more than 20%. These results are similar to what was reported last year.

In EMEP, conductivity measurements are mainly used for quality control reasons. When all the main ions in the precipitation have been measured, conductivity values are compared with values calculated from the reported results. Table 30 gives the ratios of the measured to the calculated values. As can be seen from inspecting these values, the laboratories 37, 116, 130, 135 and 136 have one or more ratios that are far away from 1.

Low concentration ions do not contribute much to the sum of ionic conductivities. By looking at the ratio of measured to calculated conductivity, errors in

determination of low concentration ions may not be revealed. To include low concentration ions in the quality control, ion balance control must be used. This ratio should be used as a tool in the quality control system for those laboratories that measure all main components. The ratios of equivalent concentrations of anions versus equivalent concentrations of cations are shown in Table 31. Laboratories 11, 35, 112, 115,116, 130, 133 and 136 have ratios that are far from 1.

5. Conclusions

A total of 59 laboratories participated in the twentieth intercomparison. 32 of these laboratories are within the EMEP network.

For all the samples analysed, the deviations from theoretical values are calculated. Figure 16 shows the median values compared to the expected values for all the parameters. For the EMEP laboratories the median deviations for both low- and high concentration samples are less than 4%. This is an improvement compared to earlier intercomparisons. The median deviations for the other participating laboratories are less than 7% for the high concentration samples and less than 5% for the low concentration samples. This is about the same as obtained in earlier intercomparisons.

As in earlier intercomparisons, outliers are defined as values that deviate more than two standard deviations from the mean value. Outliers occur for all samples and almost all parameters. Out of a total of 2437 single results, 100 are defined as outliers. This is 4.1% of the reported data, which is comparable to the results obtained last year. 26 laboratories reported outlying results, but four laboratories only are responsible for 47% of the total amount of outliers.

In Table 32 the ratio of the median values to the theoretical values for all the parameters is presented. As can be seen from this table, all parameters have median values that are in good agreement with the theoretical values.

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Appendix 1

Tables

Table 1: Samples distributed for the nineteenth interlaboratory test.

A.	5 synthetic samples for determination of SO ₂ , consisting of 0.3% H ₂ O ₂ absorbing solution and containing different concentrations of sulphuric acid. One of the samples was an unidentified blank.
B.	6 KOH-impregnated Whatman 40 filters, comprising 1 blank and 8 filters to which different amounts of sulphuric acid have been added.
C.	4 synthetic samples for determination of NO ₂ consisting of sodium nitrite diluted in water.
J.	6 Whatman 40 filters impregnated with 3% oxalic acid, comprising 2 blank and 4 filters to which different amounts of ammonium salt solution have been added.
G.	4 synthetic precipitation samples, containing SO ₄ ²⁻ , NO ₃ ⁻ , NH ₄ ⁺ , H ⁺ , Na ⁺ , Mg ²⁺ and Cl ⁻ , and Ca ²⁺ and K ⁺ .

Table 2a: EMEP laboratories participating in the nineteenth laboratory intercomparison. The numbers in front of the names are used in tables and figures.

Austria	(1)	Umweltbundesamt Zweigstelle Sud, Klagenfurt
Canada	(26)	Meteorological Service of Canada, Toronto
Croatia	(35)	Meteorological and Hydrological Service of Croatia
Czech Republic	(3)	Czech Hydrometeorological Institute, Praha
Denmark	(4)	National Environmental Research Institute. Air Pollution Laboratory
Estonia	(38)	Estonian Environmental Research Centre, Tallinn
Finland	(5)	Finnish Meteorological Institute. Air Quality Department
France	(6)	Laboratories Wolff
Germany	(7)	IfE Leipzig GmbH, Umweltlabor
Germany	(8)	Umweltbundesamt, Messtelle Schauinsland
Hungary	(10)	Institute for Atmospheric Physics
Iceland	(11)	Ídntæknistofnun Islands (Technological Inst. of Iceland)
Ireland	(12)	Met. Eirann, Dublin
Ireland	(37)	Environmental Protection Agency, Dublin
Italy	(13)	C.N.R. Istituto Inquinamento Atmosferico
Latvia	(33)	Air Pollution Observation Laboratory
Lithuania	(32)	Atmospheric Pollution Research Laboratory, Institute of Physics, Vilnius
Netherlands	(14)	National Institute of Public Health and Environmental Protection (RIVM)
Norway	(15)	Norwegian Institute for Air Research (NILU)
Macedonia	(40)	Hydrometeorological Institute, Skopje
Poland	(16)	Institute of Meteorology and Water Management, Warsaw
Poland	(39)	Environmental Monitoring Laboratory, Institute of Environmental Protection
Portugal	(17)	Direcção Regional do Ambiente e Recursos Naturais do Alentejo, Sines
Romania	(18)	Research and Engineering Institute for Environment
Russian Federation	(22)	Institute of Global Climate and Ecology
Slovakia	(31)	Slovak Hydrometeorological Institute
Slovenia	(36)	Hydrometeorological Institute of Slovenia
Spain	(19)	Centro Nacional de Sanidad Ambiental
Sweden	(20)	Swedish Environmental Research Institute (IVL), Gothenburg
Switzerland	(21)	Swiss Federal Laboratories for Materials Testing (EMPA)
Turkey	(34)	Refik Saydam Institute, Ankara
United Kingdom	(23)	AEA Technology, National Environmental Technology Centre
United States of America	(27)	Illinois State Water Survey
Serbia and Montenegro	(24)	Rep. Hydrometeorological Institute of Serbia

Table 2b: Participating laboratories outside the EMEP network.

Germany	(104)	Hessige Landwirtschaftliche
Germany	(105)	Universität des Saarlandes
Sweden	(106)	IVL Svenska Miljöinstitutet AB, Aneboda
Finland	(107)	The Finnish Forest Institute
Germany	(109)	Institut für Bondenkunde und Waldernährung der Universität, Göttingen
Germany	(110)	Thüringer Landesanstalt für Landwirtschaft (TTL), Jena
Finland	(111)	Finnish Forest Research Institute, Vantaa Research Centre
Germany	(112)	Niedersächsische Forstliche Versuchsanstalt (NVF)
Germany	(113)	Landesforstanstalt Eberswalde, abt. Waldökologie
Italy	(114)	C.N.R. Istituto Italiano di Idrobiologia
Germany	(115)	Bayerische Landesanstalt f. Wald- und Forstwirtschaft
Switzerland	(116)	Institute for Applied Plant Biology
Germany	(118)	Forstliche Versuchs-und Forschungsanstalt
Germany	(119)	Landesumweltamt (LUA)
Germany	(120)	Landwirtschaftliche Untersuchungs- und Forschungsanstalt (LUFA)
Germany	(121)	Landesamt für Natur und Umwelt
Italy	(126)	APPA Laboratorio Biologico Provinciale
Italy	(130)	Universita degli Studi Siena
China	(131)	Chongqing Institute of Environmental Science and Monitoring
Belarus	(133)	Institute for Problems of Natural Resources Use and Ecology
China	(135)	Hunan Research Institute of Environmental Protection Science
China	(136)	Guangzhou Research Institute of Environmental Protection
Germany	(137)	UST Umwelt-Systemtechnik GmbH, Gera
China	(138)	Guizhou Research Institute of Environmental Protection Science, Guiyang
Italy	(140)	C.N.R. Istituto di Ricerca sulle Acque

Table 3: Analytical methods used at the participating laboratories for the determination of sulphur dioxide in absorbing solution.

Method	Laboratory
1. Ion chromatography	6, 15, 17, 19, 21, 23

Table 4: Analytical methods used at the participating laboratories for the determination of sulphur dioxide on impregnated filters.

Method	Laboratory
1. Thorin method	16
2. Ion chromatography	3, 4, 5, 8, 11, 12, 13, 15, 19, 20, 22, 23, 31,33, 34, 36, 38, 131, 135, 138
3. Capillary Ion Analysis	39

Table 5: Analytical methods used at the participating laboratories for determination of nitric acid on impregnated filters

Method	Laboratory
1. Reduction to nitrite	16
2. Ion chromatography	3, 4, 5, 8, 11, 13, 15, 19, 20, 22, 31,33, 34, 36, 131, 135, 138
3. Capillary Ion Analysis	39

Table 6: Analytical method for determination of ammonia on impregnated filters.

Method	Laboratory
1. Spectroscopy	4, 39
2. Chloramine T	16
3. Indophenole	10, 19, 33
4 Ion chromatography	5, 36,131, 135, 138

Table 7: Analytical method used for NO₂ in absorbing solution.

Method	Laboratory
1. NEDA/Sulphanilamide	3, 4, 10, 15, 16, 19, 20, 22, 23, 31, 33, 34, 35, 39
2. NEDA/Sulphanilic acid	
3. Ion chromatography	36

Table 8: Analytical results for sulphur dioxide in absorbing solution.

<p>SULPHUR DIOXIDE IN ABSORBING SOL. SAMPLE NO.: A1 THEORETICAL VALUE 0.140 UNIT: µg S/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 6 ARITHMETIC MEAN VALUE: 0.137 MEDIAN: 0.139 STANDARD DEVIATION: 0.033 REL. ST. DEVIATION (%): 24.291</p> <p>RUN 2: NUMBER OF LABORATORIES: 6 ARITHMETIC MEAN VALUE: 0.137 MEDIAN: 0.139 STANDARD DEVIATION: 0.033 REL. ST. DEVIATION (%): 24.291</p> <p>RESULTS IN DECREASING ORDER: 17 0.180 6 0.139 23 0.154 15 0.131 21 0.140 19 0.079</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	<p>SULPHUR DIOXIDE IN ABSORBING SOL. SAMPLE NO.: A2 THEORETICAL VALUE 0.349 UNIT: µg S/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 6 ARITHMETIC MEAN VALUE: 0.346 MEDIAN: 0.350 STANDARD DEVIATION: 0.028 REL. ST. DEVIATION (%): 8.108</p> <p>RUN 2: NUMBER OF LABORATORIES: 6 ARITHMETIC MEAN VALUE: 0.346 MEDIAN: 0.350 STANDARD DEVIATION: 0.028 REL. ST. DEVIATION (%): 8.108</p> <p>RESULTS IN DECREASING ORDER: 17 0.380 6 0.343 23 0.368 15 0.321 21 0.358 19 0.307</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>
<p>SULPHUR DIOXIDE IN ABSORBING SOL. SAMPLE NO.: A4 THEORETICAL VALUE 0.297 UNIT: µg S/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 6 ARITHMETIC MEAN VALUE: 0.316 MEDIAN: 0.298 STANDARD DEVIATION: 0.052 REL. ST. DEVIATION (%): 16.538</p> <p>RUN 2: NUMBER OF LABORATORIES: 6 ARITHMETIC MEAN VALUE: 0.316 MEDIAN: 0.298 STANDARD DEVIATION: 0.052 REL. ST. DEVIATION (%): 16.538</p> <p>RESULTS IN DECREASING ORDER: 17 0.420 6 0.292 23 0.311 19 0.288 21 0.304 15 0.280</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	<p>SULPHUR DIOXIDE IN ABSORBING SOL. SAMPLE NO.: A5 THEORETICAL VALUE 0.184 UNIT: µg S/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 6 ARITHMETIC MEAN VALUE: 0.200 MEDIAN: 0.195 STANDARD DEVIATION: 0.022 REL. ST. DEVIATION (%): 10.866</p> <p>RUN 2: NUMBER OF LABORATORIES: 6 ARITHMETIC MEAN VALUE: 0.200 MEDIAN: 0.195 STANDARD DEVIATION: 0.022 REL. ST. DEVIATION (%): 10.866</p> <p>RESULTS IN DECREASING ORDER: 15 0.241 21 0.192 19 0.205 6 0.186 23 0.198 17 0.180</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>

Table 9: The ratios of the theoretical values and the results found by the laboratories in the determination of sulphur dioxide in absorbing solutions.

Lab. No	Measured value / Expected value				Average
	Sample No.				
	A1	A2	A4	A5	
6	0.99	0.98	0.98	1.01	0.99
15	0.93	0.92	0.94	1.31	1.03
17	1.28	1.09	1.42	0.98	1.19
19	0.56	0.88	0.97	1.11	0.88
21	1.00	1.03	1.03	1.04	1.02
23	1.10	1.06	1.05	1.07	1.07

Table 10: Analytical results for sulphur dioxide in impregnated filter.

<p>SULPHUR DIOXIDE ON IMPREGNATED FILTER SAMPLE NO.: B1 THEORETICAL VALUE 52.100 UNIT: µg S/FIL</p> <p>RUN 1: NUMBER OF LABORATORIES: 19 ARITHMETIC MEAN VALUE: 50.226 MEDIAN: 52.300 STANDARD DEVIATION: 5.882 REL. ST. DEVIATION (%): 11.711</p> <p>RUN 2: NUMBER OF LABORATORIES: 17 ARITHMETIC MEAN VALUE: 51.739 MEDIAN: 52.570 STANDARD DEVIATION: 3.972 REL. ST. DEVIATION (%): 7.677</p> <p>RESULTS IN DECREASING ORDER: 36 56.600 38 51.700 20 55.850 3 50.200 33 55.350 4 50.000 16 54.750 34 49.700 135 54.630 39 49.700 8 54.400 131 43.280 32 53.400 11 42.540 15 52.600 138 37.720 UNUSED 31 52.570 22 37.000 UNUSED 5 52.300</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	<p>SULPHUR DIOXIDE ON IMPREGNATED FILTER SAMPLE NO.: B2 THEORETICAL VALUE 22.040 UNIT: µg S/FIL</p> <p>RUN 1: NUMBER OF LABORATORIES: 19 ARITHMETIC MEAN VALUE: 20.945 MEDIAN: 21.500 STANDARD DEVIATION: 4.771 REL. ST. DEVIATION (%): 22.779</p> <p>RUN 2: NUMBER OF LABORATORIES: 17 ARITHMETIC MEAN VALUE: 22.229 MEDIAN: 21.500 STANDARD DEVIATION: 2.963 REL. ST. DEVIATION (%): 13.329</p> <p>RESULTS IN DECREASING ORDER: 20 26.850 38 21.000 36 26.500 31 20.780 33 26.370 4 20.300 16 24.850 3 20.240 32 24.200 34 18.680 135 23.460 11 17.820 5 23.300 131 17.250 8 23.290 22 11.300 UNUSED 15 21.500 138 8.770 UNUSED 39 21.500</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>
<p>SULPHUR DIOXIDE ON IMPREGNATED FILTER SAMPLE NO.: B4 THEORETICAL VALUE 20.040 UNIT: µg S/FIL</p> <p>RUN 1: NUMBER OF LABORATORIES: 19 ARITHMETIC MEAN VALUE: 19.414 MEDIAN: 19.520 STANDARD DEVIATION: 5.550 REL. ST. DEVIATION (%): 28.586</p> <p>RUN 2: NUMBER OF LABORATORIES: 18 ARITHMETIC MEAN VALUE: 20.148 MEDIAN: 19.960 STANDARD DEVIATION: 4.667 REL. ST. DEVIATION (%): 23.166</p> <p>RESULTS IN DECREASING ORDER: 36 27.000 31 19.360 20 25.850 4 19.200 33 25.150 39 19.100 16 24.610 34 18.460 8 23.560 131 16.650 32 22.800 11 15.250 5 22.700 38 10.800 135 21.550 22 10.700 15 20.400 138 6.210 UNUSED 3 19.520</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	<p>SULPHUR DIOXIDE ON IMPREGNATED FILTER SAMPLE NO.: B5 THEORETICAL VALUE 64.120 UNIT: µg S/FIL</p> <p>RUN 1: NUMBER OF LABORATORIES: 19 ARITHMETIC MEAN VALUE: 63.066 MEDIAN: 64.820 STANDARD DEVIATION: 7.614 REL. ST. DEVIATION (%): 12.073</p> <p>RUN 2: NUMBER OF LABORATORIES: 18 ARITHMETIC MEAN VALUE: 63.954 MEDIAN: 65.335 STANDARD DEVIATION: 6.746 REL. ST. DEVIATION (%): 10.549</p> <p>RESULTS IN DECREASING ORDER: 32 76.000 39 64.200 36 73.900 34 63.220 33 69.080 3 62.440 5 68.100 4 61.800 8 67.100 11 56.830 31 66.940 131 55.920 16 66.580 22 51.800 15 66.100 38 50.500 20 65.850 138 47.080 UNUSED 135 64.820</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>

Table 11: The ratios of the theoretical values and the results found by the laboratories in the determination of sulphur dioxide on impregnated filters. The reported results are corrected for blank value (B1).

Lab. No	Measured value / Expected value				Average
	Sample No.				
	B1	B2	B4	B5	
3	0.96	0.92	0.97	0.97	0.96
4	0.96	0.92	0.96	0.96	0.95
5	1.00	1.06	1.13	1.06	1.06
8	1.04	1.06	1.18	1.05	1.08
11	0.82	0.81	0.76	0.89	0.82
15	1.01	0.98	1.02	1.03	1.01
16	1.05	1.13	1.23	1.04	1.11
20	1.07	1.22	1.29	1.03	1.15
22	0.71	0.51	0.53	0.81	0.64
31	1.01	0.94	0.97	1.04	0.99
32	1.02	1.10	1.14	1.19	1.11
33	1.06	1.20	1.26	1.08	1.15
34	0.95	0.85	0.92	0.99	0.93
36	1.09	1.20	1.35	1.15	1.20
39	0.99	0.95	0.54	0.79	0.82
116	0.95	0.98	0.95	1.00	0.97
131	0.83	0.78	0.83	0.87	0.83
135	1.05	1.06	1.08	1.01	1.05
138	0.72	0.40	0.31	0.73	0.54

Table 12: Analytical results for nitric acid on impregnated filter.

<p>NITRIC ACID ON IMPREGNATED FILTER SAMPLE NO.: B1 THEORETICAL VALUE 13.090 UNIT: µg N/FIL.</p> <p>RUN 1:</p> <p>NUMBER OF LABORATORIES: 19 ARITHMETIC MEAN VALUE: 11.844 MEDIAN: 13.400 STANDARD DEVIATION: 3.723 REL. ST. DEVIATION (%): 31.433</p> <p>RUN 2:</p> <p>NUMBER OF LABORATORIES: 17 ARITHMETIC MEAN VALUE: 13.037 MEDIAN: 13.500 STANDARD DEVIATION: 1.055 REL. ST. DEVIATION (%): 8.095</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>20</td><td>14.000</td><td>3</td><td>13.230</td></tr> <tr><td>39</td><td>13.900</td><td>36</td><td>13.000</td></tr> <tr><td>15</td><td>13.800</td><td>31</td><td>12.480</td></tr> <tr><td>32</td><td>13.800</td><td>131</td><td>12.310</td></tr> <tr><td>138</td><td>13.780</td><td>34</td><td>11.580</td></tr> <tr><td>33</td><td>13.776</td><td>116</td><td>11.100</td></tr> <tr><td>135</td><td>13.690</td><td>22</td><td>10.600</td></tr> <tr><td>8</td><td>13.685</td><td>11</td><td>2.610 UNUSED</td></tr> <tr><td>4</td><td>13.500</td><td>5</td><td>0.790 UNUSED</td></tr> <tr><td>16</td><td>13.400</td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	20	14.000	3	13.230	39	13.900	36	13.000	15	13.800	31	12.480	32	13.800	131	12.310	138	13.780	34	11.580	33	13.776	116	11.100	135	13.690	22	10.600	8	13.685	11	2.610 UNUSED	4	13.500	5	0.790 UNUSED	16	13.400			<p>NITRIC ACID ON IMPREGNATED FILTER SAMPLE NO.: B2 THEORETICAL VALUE 31.084 UNIT: µg N/FIL.</p> <p>RUN 1:</p> <p>NUMBER OF LABORATORIES: 19 ARITHMETIC MEAN VALUE: 29.468 MEDIAN: 30.221 STANDARD DEVIATION: 2.573 REL. ST. DEVIATION (%): 8.731</p> <p>RUN 2:</p> <p>NUMBER OF LABORATORIES: 17 ARITHMETIC MEAN VALUE: 30.170 MEDIAN: 30.400 STANDARD DEVIATION: 1.555 REL. ST. DEVIATION (%): 5.154</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>138</td><td>32.760</td><td>3</td><td>29.890</td></tr> <tr><td>135</td><td>31.820</td><td>33</td><td>29.558</td></tr> <tr><td>15</td><td>31.500</td><td>16</td><td>29.400</td></tr> <tr><td>31</td><td>31.350</td><td>34</td><td>29.040</td></tr> <tr><td>5</td><td>31.200</td><td>131</td><td>28.250</td></tr> <tr><td>39</td><td>31.200</td><td>116</td><td>28.100</td></tr> <tr><td>20</td><td>31.000</td><td>32</td><td>26.600</td></tr> <tr><td>4</td><td>30.600</td><td>11</td><td>24.210 UNUSED</td></tr> <tr><td>36</td><td>30.400</td><td>22</td><td>22.800 UNUSED</td></tr> <tr><td>8</td><td>30.221</td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	138	32.760	3	29.890	135	31.820	33	29.558	15	31.500	16	29.400	31	31.350	34	29.040	5	31.200	131	28.250	39	31.200	116	28.100	20	31.000	32	26.600	4	30.600	11	24.210 UNUSED	36	30.400	22	22.800 UNUSED	8	30.221		
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<p>NITRIC ACID ON IMPREGNATED FILTER SAMPLE NO.: B4 THEORETICAL VALUE 34.356 UNIT: µg N/FIL.</p> <p>RUN 1:</p> <p>NUMBER OF LABORATORIES: 19 ARITHMETIC MEAN VALUE: 33.173 MEDIAN: 33.800 STANDARD DEVIATION: 3.291 REL. ST. DEVIATION (%): 9.922</p> <p>RUN 2:</p> <p>NUMBER OF LABORATORIES: 17 ARITHMETIC MEAN VALUE: 34.186 MEDIAN: 34.000 STANDARD DEVIATION: 1.340 REL. ST. DEVIATION (%): 3.920</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>138</td><td>36.350</td><td>3</td><td>33.790</td></tr> <tr><td>32</td><td>36.300</td><td>39</td><td>33.700</td></tr> <tr><td>15</td><td>35.900</td><td>34</td><td>33.180</td></tr> <tr><td>5</td><td>35.200</td><td>33</td><td>33.009</td></tr> <tr><td>4</td><td>35.100</td><td>131</td><td>32.670</td></tr> <tr><td>135</td><td>35.030</td><td>16</td><td>32.280</td></tr> <tr><td>31</td><td>34.790</td><td>116</td><td>32.000</td></tr> <tr><td>8</td><td>34.061</td><td>11</td><td>25.130 UNUSED</td></tr> <tr><td>20</td><td>34.000</td><td>22</td><td>24.000 UNUSED</td></tr> <tr><td>36</td><td>33.800</td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	138	36.350	3	33.790	32	36.300	39	33.700	15	35.900	34	33.180	5	35.200	33	33.009	4	35.100	131	32.670	135	35.030	16	32.280	31	34.790	116	32.000	8	34.061	11	25.130 UNUSED	20	34.000	22	24.000 UNUSED	36	33.800			<p>NITRIC ACID ON IMPREGNATED FILTER SAMPLE NO.: B5 THEORETICAL VALUE 9.816 UNIT: µg N/FIL.</p> <p>RUN 1:</p> <p>NUMBER OF LABORATORIES: 19 ARITHMETIC MEAN VALUE: 9.412 MEDIAN: 9.880 STANDARD DEVIATION: 1.399 REL. ST. DEVIATION (%): 14.865</p> <p>RUN 2:</p> <p>NUMBER OF LABORATORIES: 18 ARITHMETIC MEAN VALUE: 9.686 MEDIAN: 9.890 STANDARD DEVIATION: 0.750 REL. ST. DEVIATION (%): 7.742</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>15</td><td>10.600</td><td>36</td><td>9.540</td></tr> <tr><td>5</td><td>10.500</td><td>131</td><td>9.530</td></tr> <tr><td>16</td><td>10.420</td><td>39</td><td>9.500</td></tr> <tr><td>8</td><td>10.342</td><td>32</td><td>9.400</td></tr> <tr><td>138</td><td>10.320</td><td>34</td><td>9.260</td></tr> <tr><td>135</td><td>10.060</td><td>31</td><td>9.010</td></tr> <tr><td>4</td><td>10.000</td><td>22</td><td>8.300</td></tr> <tr><td>33</td><td>9.987</td><td>116</td><td>7.800</td></tr> <tr><td>20</td><td>9.900</td><td>11</td><td>4.480 UNUSED</td></tr> <tr><td>3</td><td>9.880</td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	15	10.600	36	9.540	5	10.500	131	9.530	16	10.420	39	9.500	8	10.342	32	9.400	138	10.320	34	9.260	135	10.060	31	9.010	4	10.000	22	8.300	33	9.987	116	7.800	20	9.900	11	4.480 UNUSED	3	9.880		
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3	9.880																																																																																

Table 13: The ratios of the theoretical values and the results found by the laboratories in the determination of nitric acid on impregnated filters. The reported results are corrected for blank value (B1).

Lab. No.	Measured / Expected				Average
	Sample No.				
	B1	B2	B4	B5	
3	1.01	0.96	0.98	1.01	0.99
4	1.03	0.98	1.02	1.02	1.01
5	0.06	1.00	1.02	1.07	0.79
8	1.05	0.97	0.99	1.05	1.02
11	0.20	0.78	0.73	0.46	0.54
15	1.05	1.01	1.04	1.08	1.05
16	1.02	0.95	0.94	1.06	0.99
20	1.07	1.00	0.99	1.01	1.02
22	0.81	0.73	0.70	0.85	0.77
31	0.95	1.01	1.01	0.92	0.97
32	1.05	0.86	1.06	0.96	0.98
33	1.05	0.95	0.96	1.02	1.00
34	0.88	0.93	0.97	0.94	0.93
36	0.99	0.98	0.98	0.97	0.98
38	1.06	1.00	0.98	0.97	1.00
39	0.85	0.90	0.93	0.79	0.87
131	0.94	0.91	0.95	0.97	0.94
135	1.05	1.02	1.02	1.02	1.03
138	1.05	1.05	1.06	1.05	1.05

Table 14: Analytical results for nitrogen dioxide in absorbing solution.

<p>NITROGEN DIOXIDE IN ABSORBING SOL. SAMPLE NO.: C1 THEORETICAL VALUE 0.068 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 19 ARITHMETIC MEAN VALUE: 0.066 MEDIAN: 0.067 STANDARD DEVIATION: 0.004 REL. ST. DEVIATION (%): 6.368</p> <p>RUN 2: NUMBER OF LABORATORIES: 18 ARITHMETIC MEAN VALUE: 0.067 MEDIAN: 0.067 STANDARD DEVIATION: 0.003 REL. ST. DEVIATION (%): 4.492</p> <p>RESULTS IN DECREASING ORDER: 39 0.072 12 0.066 22 0.071 20 0.066 32 0.069 10 0.065 33 0.069 16 0.065 35 0.069 8 0.064 34 0.068 19 0.064 4 0.067 23 0.064 36 0.067 15 0.059 38 0.067 31 0.053 UNUSED 3 0.067</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	<p>NITROGEN DIOXIDE IN ABSORBING SOL. SAMPLE NO.: C2 THEORETICAL VALUE 0.118 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 19 ARITHMETIC MEAN VALUE: 0.117 MEDIAN: 0.119 STANDARD DEVIATION: 0.007 REL. ST. DEVIATION (%): 6.279</p> <p>RUN 2: NUMBER OF LABORATORIES: 18 ARITHMETIC MEAN VALUE: 0.118 MEDIAN: 0.119 STANDARD DEVIATION: 0.005 REL. ST. DEVIATION (%): 4.075</p> <p>RESULTS IN DECREASING ORDER: 22 0.126 12 0.118 3 0.125 16 0.118 39 0.124 23 0.117 33 0.122 10 0.114 35 0.121 34 0.113 4 0.120 8 0.112 20 0.119 19 0.111 32 0.119 15 0.109 36 0.119 31 0.094 UNUSED 38 0.119</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>
<p>NITROGEN DIOXIDE IN ABSORBING SOL. SAMPLE NO.: C3 THEORETICAL VALUE 0.085 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 19 ARITHMETIC MEAN VALUE: 0.083 MEDIAN: 0.084 STANDARD DEVIATION: 0.005 REL. ST. DEVIATION (%): 6.533</p> <p>RUN 2: NUMBER OF LABORATORIES: 18 ARITHMETIC MEAN VALUE: 0.084 MEDIAN: 0.084 STANDARD DEVIATION: 0.004 REL. ST. DEVIATION (%): 4.436</p> <p>RESULTS IN DECREASING ORDER: 22 0.090 38 0.084 3 0.089 10 0.083 39 0.089 23 0.082 33 0.088 16 0.081 35 0.088 19 0.081 4 0.086 34 0.081 32 0.086 8 0.080 36 0.085 15 0.076 12 0.084 31 0.067 UNUSED 20 0.084</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	<p>NITROGEN DIOXIDE IN ABSORBING SOL. SAMPLE NO.: C4 THEORETICAL VALUE 0.135 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 19 ARITHMETIC MEAN VALUE: 4.343 MEDIAN: 0.135 STANDARD DEVIATION: 18.356 REL. ST. DEVIATION (%): 422.671</p> <p>RUN 2: NUMBER OF LABORATORIES: 18 ARITHMETIC MEAN VALUE: 0.132 MEDIAN: 0.135 STANDARD DEVIATION: 0.010 REL. ST. DEVIATION (%): 7.279</p> <p>RESULTS IN DECREASING ORDER: 3 80.145 UNUSED 38 0.135 22 0.145 20 0.134 35 0.140 23 0.133 33 0.139 10 0.130 4 0.138 8 0.129 32 0.137 15 0.126 12 0.136 39 0.122 34 0.136 19 0.113 36 0.136 31 0.107 16 0.135</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>

Table 15: The ratios of the theoretical values and the results found by the laboratories in the determination of nitrogen dioxide in absorbing solutions.

Lab. No.	Measured / Expected				Average
	Sample No.				
	C1	C2	C3	C4	
3	0.98	1.06	1.06	1.07	1.04
4	0.99	1.01	1.02	1.02	1.01
8	0.94	0.95	0.95	0.96	0.95
10	0.96	0.96	0.98	0.96	0.97
12	0.98	1.00	0.99	1.00	0.99
15	0.87	0.92	0.90	0.93	0.91
16	0.96	1.00	0.96	1.00	0.98
19	0.95	0.94	0.95	0.83	0.92
20	0.98	1.00	0.99	0.99	0.99
22	1.05	1.06	1.06	1.07	1.06
23	0.95	0.99	0.97	0.98	0.97
31	0.79	0.79	0.78	0.79	0.79
32	1.02	1.00	1.02	1.01	1.01
33	1.02	1.03	1.04	1.03	1.03
34	1.00	0.95	0.96	1.00	0.98
35	1.02	1.02	1.04	1.03	1.03
36	0.99	1.00	1.00	1.00	1.00
38	0.99	1.00	0.99	1.00	1.00
39	1.06	1.05	1.05	0.90	1.02

Table 16: Analytical results for ammonia on impregnated filter.

<p>AMMONIA ON IMPREGNATED FILTER SAMPLE NO.: J1 THEORETICAL VALUE 38.100 UNIT: µg N/FIL</p> <p>RUN 1: NUMBER OF LABORATORIES: 18 ARITHMETIC MEAN VALUE: 37.853 MEDIAN: 36.923 STANDARD DEVIATION: 4.978 REL. ST. DEVIATION (%): 13.152</p> <p>RUN 2: NUMBER OF LABORATORIES: 17 ARITHMETIC MEAN VALUE: 37.132 MEDIAN: 36.915 STANDARD DEVIATION: 4.051 REL. ST. DEVIATION (%): 10.909</p> <p>RESULTS IN DECREASING ORDER: 116 50.100 UNUSED 131 36.915 33 44.800 5 36.750 32 42.545 135 36.620 19 42.055 20 36.310 15 41.730 39 34.555 11 38.950 16 34.385 8 37.497 138 33.855 4 37.155 34 30.610 36 36.930 10 29.584 "UNUSED": DATA UNUSED IN RUN 2</p>	<p>AMMONIA ON IMPREGNATED FILTER SAMPLE NO.: J3 THEORETICAL VALUE 7.520 UNIT: µg N/FIL</p> <p>RUN 1: NUMBER OF LABORATORIES: 18 ARITHMETIC MEAN VALUE: 6.934 MEDIAN: 7.002 STANDARD DEVIATION: 1.718 REL. ST. DEVIATION (%): 24.776</p> <p>RUN 2: NUMBER OF LABORATORIES: 16 ARITHMETIC MEAN VALUE: 6.873 MEDIAN: 7.002 STANDARD DEVIATION: 1.118 REL. ST. DEVIATION (%): 16.267</p> <p>RESULTS IN DECREASING ORDER: 4 11.355 UNUSED 39 6.999 116 8.800 20 6.810 19 8.507 138 6.665 33 8.120 16 6.305 36 7.669 34 6.015 8 7.214 135 5.820 5 7.150 11 5.250 15 7.020 10 4.619 131 7.005 32 3.495 UNUSED "UNUSED": DATA UNUSED IN RUN 2</p>
<p>AMMONIA ON IMPREGNATED FILTER SAMPLE NO.: J5 THEORETICAL VALUE 34.090 UNIT: µg N/FIL</p> <p>RUN 1: NUMBER OF LABORATORIES: 18 ARITHMETIC MEAN VALUE: 31.989 MEDIAN: 32.775 STANDARD DEVIATION: 6.155 REL. ST. DEVIATION (%): 19.240</p> <p>RUN 2: NUMBER OF LABORATORIES: 16 ARITHMETIC MEAN VALUE: 33.802 MEDIAN: 33.010 STANDARD DEVIATION: 3.292 REL. ST. DEVIATION (%): 9.739</p> <p>RESULTS IN DECREASING ORDER: 116 42.400 36 32.700 4 36.955 5 32.650 19 36.686 131 32.415 33 36.310 20 32.310 15 35.830 39 30.605 8 34.081 34 29.528 138 33.355 16 28.985 135 33.170 10 19.482 UNUSED 11 32.850 32 15.485 UNUSED "UNUSED": DATA UNUSED IN RUN 2</p>	<p>AMMONIA ON IMPREGNATED FILTER SAMPLE NO.: J6 THEORETICAL VALUE 10.030 UNIT: µg N/FIL</p> <p>RUN 1: NUMBER OF LABORATORIES: 18 ARITHMETIC MEAN VALUE: 9.378 MEDIAN: 9.377 STANDARD DEVIATION: 1.850 REL. ST. DEVIATION (%): 19.727</p> <p>RUN 2: NUMBER OF LABORATORIES: 17 ARITHMETIC MEAN VALUE: 9.627 MEDIAN: 9.400 STANDARD DEVIATION: 1.564 REL. ST. DEVIATION (%): 16.242</p> <p>RESULTS IN DECREASING ORDER: 116 12.700 4 9.355 8 11.562 20 9.310 19 10.930 34 8.990 131 10.685 135 8.700 36 10.600 11 8.550 138 10.395 39 8.351 15 10.330 16 7.955 5 9.950 10 5.898 33 9.400 32 5.135 UNUSED "UNUSED": DATA UNUSED IN RUN 2</p>

Table 17: The ratios of the theoretical values and the results found by the laboratories in the determination of ammonia on impregnated filters. The reported results are corrected for an average blank value (J1 and J6).

Lab. No.	Measured / Expected				Average
	Sample No.				
	J1	J3	J5	J6	
4	0.98	1.51	1.08	0.93	1.13
5	0.96	0.95	0.96	0.99	0.97
8	0.98	0.96	1.00	1.15	1.02
10	0.78	0.61	0.57	0.59	0.64
11	1.02	0.70	0.96	0.85	0.88
15	1.10	0.93	1.05	1.03	1.03
16	0.90	0.84	0.85	0.79	0.85
19	1.10	1.13	1.08	1.09	1.10
20	0.95	0.91	0.95	0.93	0.93
32	1.12	0.46	0.45	0.51	0.64
33	1.18	1.08	1.07	0.94	1.06
34	0.80	0.80	0.87	0.90	0.84
36	0.97	1.02	0.96	1.06	1.00
39	0.91	0.93	0.90	0.83	0.89
116	1.32	1.17	1.24	1.27	1.25
131	0.97	0.93	0.95	1.07	0.98
135	0.96	0.77	0.97	0.87	0.89
138	0.89	0.89	0.98	1.04	0.95

Table 18: Analytical results for sulphate in precipitations samples.

<p>SULPHATE SAMPLE NO.: G1 THEORETICAL VALUE 1.574 UNIT: µg S/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 56 ARITHMETIC MEAN VALUE: 1.691 MEDIAN: 1.581 STANDARD DEVIATION: 0.598 REL. ST. DEVIATION (%): 35.361</p> <p>RUN 2: NUMBER OF LABORATORIES: 54 ARITHMETIC MEAN VALUE: 1.579 MEDIAN: 1.580 STANDARD DEVIATION: 0.128 REL. ST. DEVIATION (%): 8.084</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>130</td><td>4.780</td><td>UNUSED</td><td>8</td><td>1.580</td></tr> <tr><td>138</td><td>4.620</td><td>UNUSED</td><td>24</td><td>1.580</td></tr> <tr><td>116</td><td>2.067</td><td></td><td>5</td><td>1.574</td></tr> <tr><td>133</td><td>1.841</td><td></td><td>19</td><td>1.573</td></tr> <tr><td>14</td><td>1.741</td><td></td><td>12</td><td>1.570</td></tr> <tr><td>107</td><td>1.694</td><td></td><td>23</td><td>1.570</td></tr> <tr><td>17</td><td>1.680</td><td></td><td>140</td><td>1.570</td></tr> <tr><td>118</td><td>1.670</td><td></td><td>34</td><td>1.565</td></tr> <tr><td>39</td><td>1.661</td><td></td><td>10</td><td>1.564</td></tr> <tr><td>7</td><td>1.658</td><td></td><td>15</td><td>1.560</td></tr> <tr><td>35</td><td>1.646</td><td></td><td>26</td><td>1.556</td></tr> <tr><td>114</td><td>1.640</td><td></td><td>104</td><td>1.540</td></tr> <tr><td>135</td><td>1.635</td><td></td><td>113</td><td>1.540</td></tr> <tr><td>1</td><td>1.630</td><td></td><td>6</td><td>1.539</td></tr> <tr><td>21</td><td>1.625</td><td></td><td>105</td><td>1.537</td></tr> <tr><td>4</td><td>1.621</td><td></td><td>16</td><td>1.536</td></tr> <tr><td>33</td><td>1.620</td><td></td><td>36</td><td>1.532</td></tr> <tr><td>137</td><td>1.620</td><td></td><td>111</td><td>1.530</td></tr> <tr><td>126</td><td>1.610</td><td></td><td>11</td><td>1.526</td></tr> <tr><td>13</td><td>1.600</td><td></td><td>37</td><td>1.510</td></tr> <tr><td>27</td><td>1.600</td><td></td><td>110</td><td>1.500</td></tr> <tr><td>115</td><td>1.600</td><td></td><td>109</td><td>1.490</td></tr> <tr><td>31</td><td>1.596</td><td></td><td>121</td><td>1.480</td></tr> <tr><td>3</td><td>1.591</td><td></td><td>32</td><td>1.456</td></tr> <tr><td>112</td><td>1.590</td><td></td><td>38</td><td>1.440</td></tr> <tr><td>119</td><td>1.590</td><td></td><td>120</td><td>1.440</td></tr> <tr><td>131</td><td>1.586</td><td></td><td>22</td><td>1.434</td></tr> <tr><td>20</td><td>1.581</td><td></td><td>136</td><td>0.995</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	130	4.780	UNUSED	8	1.580	138	4.620	UNUSED	24	1.580	116	2.067		5	1.574	133	1.841		19	1.573	14	1.741		12	1.570	107	1.694		23	1.570	17	1.680		140	1.570	118	1.670		34	1.565	39	1.661		10	1.564	7	1.658		15	1.560	35	1.646		26	1.556	114	1.640		104	1.540	135	1.635		113	1.540	1	1.630		6	1.539	21	1.625		105	1.537	4	1.621		16	1.536	33	1.620		36	1.532	137	1.620		111	1.530	126	1.610		11	1.526	13	1.600		37	1.510	27	1.600		110	1.500	115	1.600		109	1.490	31	1.596		121	1.480	3	1.591		32	1.456	112	1.590		38	1.440	119	1.590		120	1.440	131	1.586		22	1.434	20	1.581		136	0.995	<p>SULPHATE SAMPLE NO.: G2 THEORETICAL VALUE 1.586 UNIT: µg S/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 56 ARITHMETIC MEAN VALUE: 1.708 MEDIAN: 1.590 STANDARD DEVIATION: 0.604 REL. ST. DEVIATION (%): 35.383</p> <p>RUN 2: NUMBER OF LABORATORIES: 54 ARITHMETIC MEAN VALUE: 1.595 MEDIAN: 1.590 STANDARD DEVIATION: 0.130 REL. ST. DEVIATION (%): 8.159</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>130</td><td>4.770</td><td>UNUSED</td><td>8</td><td>1.590</td></tr> <tr><td>138</td><td>4.730</td><td>UNUSED</td><td>12</td><td>1.590</td></tr> <tr><td>133</td><td>2.166</td><td></td><td>15</td><td>1.590</td></tr> <tr><td>116</td><td>1.779</td><td></td><td>34</td><td>1.586</td></tr> <tr><td>137</td><td>1.756</td><td></td><td>11</td><td>1.576</td></tr> <tr><td>14</td><td>1.728</td><td></td><td>112</td><td>1.570</td></tr> <tr><td>107</td><td>1.715</td><td></td><td>140</td><td>1.570</td></tr> <tr><td>39</td><td>1.706</td><td></td><td>19</td><td>1.568</td></tr> <tr><td>118</td><td>1.690</td><td></td><td>26</td><td>1.567</td></tr> <tr><td>7</td><td>1.669</td><td></td><td>5</td><td>1.561</td></tr> <tr><td>135</td><td>1.669</td><td></td><td>104</td><td>1.560</td></tr> <tr><td>4</td><td>1.663</td><td></td><td>16</td><td>1.554</td></tr> <tr><td>35</td><td>1.661</td><td></td><td>6</td><td>1.551</td></tr> <tr><td>17</td><td>1.660</td><td></td><td>37</td><td>1.550</td></tr> <tr><td>1</td><td>1.650</td><td></td><td>105</td><td>1.548</td></tr> <tr><td>10</td><td>1.641</td><td></td><td>36</td><td>1.544</td></tr> <tr><td>33</td><td>1.640</td><td></td><td>111</td><td>1.540</td></tr> <tr><td>21</td><td>1.637</td><td></td><td>126</td><td>1.540</td></tr> <tr><td>13</td><td>1.630</td><td></td><td>121</td><td>1.530</td></tr> <tr><td>24</td><td>1.620</td><td></td><td>113</td><td>1.520</td></tr> <tr><td>27</td><td>1.617</td><td></td><td>109</td><td>1.510</td></tr> <tr><td>31</td><td>1.614</td><td></td><td>110</td><td>1.500</td></tr> <tr><td>119</td><td>1.610</td><td></td><td>115</td><td>1.500</td></tr> <tr><td>3</td><td>1.604</td><td></td><td>32</td><td>1.491</td></tr> <tr><td>131</td><td>1.603</td><td></td><td>120</td><td>1.470</td></tr> <tr><td>114</td><td>1.600</td><td></td><td>38</td><td>1.460</td></tr> <tr><td>23</td><td>1.598</td><td></td><td>22</td><td>1.456</td></tr> <tr><td>20</td><td>1.591</td><td></td><td>136</td><td>1.046</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	130	4.770	UNUSED	8	1.590	138	4.730	UNUSED	12	1.590	133	2.166		15	1.590	116	1.779		34	1.586	137	1.756		11	1.576	14	1.728		112	1.570	107	1.715		140	1.570	39	1.706		19	1.568	118	1.690		26	1.567	7	1.669		5	1.561	135	1.669		104	1.560	4	1.663		16	1.554	35	1.661		6	1.551	17	1.660		37	1.550	1	1.650		105	1.548	10	1.641		36	1.544	33	1.640		111	1.540	21	1.637		126	1.540	13	1.630		121	1.530	24	1.620		113	1.520	27	1.617		109	1.510	31	1.614		110	1.500	119	1.610		115	1.500	3	1.604		32	1.491	131	1.603		120	1.470	114	1.600		38	1.460	23	1.598		22	1.456	20	1.591		136	1.046
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13	1.630		121	1.530																																																																																																																																																																																																																																																																																					
24	1.620		113	1.520																																																																																																																																																																																																																																																																																					
27	1.617		109	1.510																																																																																																																																																																																																																																																																																					
31	1.614		110	1.500																																																																																																																																																																																																																																																																																					
119	1.610		115	1.500																																																																																																																																																																																																																																																																																					
3	1.604		32	1.491																																																																																																																																																																																																																																																																																					
131	1.603		120	1.470																																																																																																																																																																																																																																																																																					
114	1.600		38	1.460																																																																																																																																																																																																																																																																																					
23	1.598		22	1.456																																																																																																																																																																																																																																																																																					
20	1.591		136	1.046																																																																																																																																																																																																																																																																																					
<p>SULPHATE SAMPLE NO.: G3 THEORETICAL VALUE 1.025 UNIT: µg S/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 56 ARITHMETIC MEAN VALUE: 1.110 MEDIAN: 1.030 STANDARD DEVIATION: 0.409 REL. ST. DEVIATION (%): 36.847</p> <p>RUN 2: NUMBER OF LABORATORIES: 54 ARITHMETIC MEAN VALUE: 1.034 MEDIAN: 1.030 STANDARD DEVIATION: 0.091 REL. ST. DEVIATION (%): 8.812</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>138</td><td>3.180</td><td>UNUSED</td><td>20</td><td>1.030</td></tr> <tr><td>130</td><td>3.150</td><td>UNUSED</td><td>112</td><td>1.030</td></tr> <tr><td>133</td><td>1.378</td><td></td><td>119</td><td>1.030</td></tr> <tr><td>116</td><td>1.352</td><td></td><td>31</td><td>1.029</td></tr> <tr><td>14</td><td>1.161</td><td></td><td>34</td><td>1.023</td></tr> <tr><td>39</td><td>1.087</td><td></td><td>105</td><td>1.023</td></tr> <tr><td>24</td><td>1.080</td><td></td><td>13</td><td>1.020</td></tr> <tr><td>21</td><td>1.076</td><td></td><td>23</td><td>1.020</td></tr> <tr><td>1</td><td>1.070</td><td></td><td>111</td><td>1.020</td></tr> <tr><td>17</td><td>1.070</td><td></td><td>19</td><td>1.018</td></tr> <tr><td>114</td><td>1.070</td><td></td><td>26</td><td>1.018</td></tr> <tr><td>118</td><td>1.070</td><td></td><td>11</td><td>1.017</td></tr> <tr><td>7</td><td>1.067</td><td></td><td>37</td><td>1.012</td></tr> <tr><td>10</td><td>1.067</td><td></td><td>104</td><td>1.010</td></tr> <tr><td>107</td><td>1.066</td><td></td><td>16</td><td>1.007</td></tr> <tr><td>4</td><td>1.064</td><td></td><td>109</td><td>1.000</td></tr> <tr><td>5</td><td>1.063</td><td></td><td>115</td><td>1.000</td></tr> <tr><td>35</td><td>1.063</td><td></td><td>6</td><td>0.997</td></tr> <tr><td>33</td><td>1.060</td><td></td><td>36</td><td>0.996</td></tr> <tr><td>15</td><td>1.050</td><td></td><td>137</td><td>0.982</td></tr> <tr><td>126</td><td>1.050</td><td></td><td>113</td><td>0.980</td></tr> <tr><td>27</td><td>1.049</td><td></td><td>110</td><td>0.970</td></tr> <tr><td>131</td><td>1.046</td><td></td><td>120</td><td>0.960</td></tr> <tr><td>140</td><td>1.040</td><td></td><td>121</td><td>0.955</td></tr> <tr><td>3</td><td>1.036</td><td></td><td>32</td><td>0.936</td></tr> <tr><td>135</td><td>1.035</td><td></td><td>38</td><td>0.920</td></tr> <tr><td>8</td><td>1.030</td><td></td><td>22</td><td>0.897</td></tr> <tr><td>12</td><td>1.030</td><td></td><td>136</td><td>0.697</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	138	3.180	UNUSED	20	1.030	130	3.150	UNUSED	112	1.030	133	1.378		119	1.030	116	1.352		31	1.029	14	1.161		34	1.023	39	1.087		105	1.023	24	1.080		13	1.020	21	1.076		23	1.020	1	1.070		111	1.020	17	1.070		19	1.018	114	1.070		26	1.018	118	1.070		11	1.017	7	1.067		37	1.012	10	1.067		104	1.010	107	1.066		16	1.007	4	1.064		109	1.000	5	1.063		115	1.000	35	1.063		6	0.997	33	1.060		36	0.996	15	1.050		137	0.982	126	1.050		113	0.980	27	1.049		110	0.970	131	1.046		120	0.960	140	1.040		121	0.955	3	1.036		32	0.936	135	1.035		38	0.920	8	1.030		22	0.897	12	1.030		136	0.697	<p>SULPHATE SAMPLE NO.: G4 THEORETICAL VALUE 1.012 UNIT: µg S/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 55 ARITHMETIC MEAN VALUE: 1.093 MEDIAN: 1.015 STANDARD DEVIATION: 0.395 REL. ST. DEVIATION (%): 36.122</p> <p>RUN 2: NUMBER OF LABORATORIES: 53 ARITHMETIC MEAN VALUE: 1.019 MEDIAN: 1.013 STANDARD DEVIATION: 0.094 REL. ST. DEVIATION (%): 9.222</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>130</td><td>3.090</td><td>UNUSED</td><td>20</td><td>1.013</td></tr> <tr><td>138</td><td>3.010</td><td>UNUSED</td><td>8</td><td>1.010</td></tr> <tr><td>116</td><td>1.418</td><td></td><td>12</td><td>1.010</td></tr> <tr><td>133</td><td>1.241</td><td></td><td>119</td><td>1.010</td></tr> <tr><td>137</td><td>1.184</td><td></td><td>23</td><td>1.007</td></tr> <tr><td>14</td><td>1.126</td><td></td><td>36</td><td>1.002</td></tr> <tr><td>17</td><td>1.100</td><td></td><td>34</td><td>1.001</td></tr> <tr><td>114</td><td>1.070</td><td></td><td>115</td><td>1.000</td></tr> <tr><td>7</td><td>1.062</td><td></td><td>37</td><td>0.999</td></tr> <tr><td>118</td><td>1.060</td><td></td><td>26</td><td>0.998</td></tr> <tr><td>21</td><td>1.057</td><td></td><td>5</td><td>0.997</td></tr> <tr><td>126</td><td>1.050</td><td></td><td>11</td><td>0.996</td></tr> <tr><td>35</td><td>1.047</td><td></td><td>131</td><td>0.993</td></tr> <tr><td>107</td><td>1.047</td><td></td><td>104</td><td>0.990</td></tr> <tr><td>39</td><td>1.046</td><td></td><td>105</td><td>0.988</td></tr> <tr><td>4</td><td>1.045</td><td></td><td>111</td><td>0.981</td></tr> <tr><td>10</td><td>1.042</td><td></td><td>109</td><td>0.980</td></tr> <tr><td>1</td><td>1.040</td><td></td><td>19</td><td>0.978</td></tr> <tr><td>135</td><td>1.034</td><td></td><td>6</td><td>0.975</td></tr> <tr><td>27</td><td>1.031</td><td></td><td>113</td><td>0.970</td></tr> <tr><td>13</td><td>1.030</td><td></td><td>110</td><td>0.960</td></tr> <tr><td>15</td><td>1.030</td><td></td><td>120</td><td>0.960</td></tr> <tr><td>140</td><td>1.030</td><td></td><td>121</td><td>0.931</td></tr> <tr><td>33</td><td>1.020</td><td></td><td>38</td><td>0.910</td></tr> <tr><td>112</td><td>1.020</td><td></td><td>32</td><td>0.906</td></tr> <tr><td>31</td><td>1.017</td><td></td><td>22</td><td>0.886</td></tr> <tr><td>3</td><td>1.015</td><td></td><td>136</td><td>0.672</td></tr> <tr><td>16</td><td>1.015</td><td></td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	130	3.090	UNUSED	20	1.013	138	3.010	UNUSED	8	1.010	116	1.418		12	1.010	133	1.241		119	1.010	137	1.184		23	1.007	14	1.126		36	1.002	17	1.100		34	1.001	114	1.070		115	1.000	7	1.062		37	0.999	118	1.060		26	0.998	21	1.057		5	0.997	126	1.050		11	0.996	35	1.047		131	0.993	107	1.047		104	0.990	39	1.046		105	0.988	4	1.045		111	0.981	10	1.042		109	0.980	1	1.040		19	0.978	135	1.034		6	0.975	27	1.031		113	0.970	13	1.030		110	0.960	15	1.030		120	0.960	140	1.030		121	0.931	33	1.020		38	0.910	112	1.020		32	0.906	31	1.017		22	0.886	3	1.015		136	0.672	16	1.015			
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116	1.418		12	1.010																																																																																																																																																																																																																																																																																					
133	1.241		119	1.010																																																																																																																																																																																																																																																																																					
137	1.184		23	1.007																																																																																																																																																																																																																																																																																					
14	1.126		36	1.002																																																																																																																																																																																																																																																																																					
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10	1.042		109	0.980																																																																																																																																																																																																																																																																																					
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16	1.015																																																																																																																																																																																																																																																																																								

Table 19: Analytical results for nitrate in precipitations samples.

<p>NITRATE SAMPLE NO.: G1 THEORETICAL VALUE 0.607 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 57 ARITHMETIC MEAN VALUE: 0.650 MEDIAN: 0.603 STANDARD DEVIATION: 0.295 REL. ST. DEVIATION (%): 45.436</p> <p>RUN 2: NUMBER OF LABORATORIES: 55 ARITHMETIC MEAN VALUE: 0.601 MEDIAN: 0.601 STANDARD DEVIATION: 0.068 REL. ST. DEVIATION (%): 11.362</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>138</td><td>2.670</td><td>UNUSED</td><td>35</td><td>0.601</td></tr> <tr><td>116</td><td>1.300</td><td>UNUSED</td><td>12</td><td>0.600</td></tr> <tr><td>40</td><td>0.972</td><td></td><td>104</td><td>0.600</td></tr> <tr><td>133</td><td>0.655</td><td></td><td>113</td><td>0.600</td></tr> <tr><td>24</td><td>0.640</td><td></td><td>115</td><td>0.600</td></tr> <tr><td>39</td><td>0.635</td><td></td><td>36</td><td>0.598</td></tr> <tr><td>130</td><td>0.630</td><td></td><td>26</td><td>0.596</td></tr> <tr><td>135</td><td>0.628</td><td></td><td>19</td><td>0.595</td></tr> <tr><td>23</td><td>0.626</td><td></td><td>15</td><td>0.593</td></tr> <tr><td>4</td><td>0.622</td><td></td><td>111</td><td>0.592</td></tr> <tr><td>1</td><td>0.620</td><td></td><td>3</td><td>0.591</td></tr> <tr><td>33</td><td>0.620</td><td></td><td>8</td><td>0.591</td></tr> <tr><td>114</td><td>0.620</td><td></td><td>118</td><td>0.590</td></tr> <tr><td>5</td><td>0.616</td><td></td><td>140</td><td>0.590</td></tr> <tr><td>7</td><td>0.614</td><td></td><td>16</td><td>0.588</td></tr> <tr><td>37</td><td>0.614</td><td></td><td>137</td><td>0.587</td></tr> <tr><td>20</td><td>0.612</td><td></td><td>34</td><td>0.585</td></tr> <tr><td>27</td><td>0.612</td><td></td><td>6</td><td>0.584</td></tr> <tr><td>32</td><td>0.612</td><td></td><td>119</td><td>0.580</td></tr> <tr><td>131</td><td>0.611</td><td></td><td>22</td><td>0.572</td></tr> <tr><td>13</td><td>0.610</td><td></td><td>105</td><td>0.570</td></tr> <tr><td>17</td><td>0.610</td><td></td><td>110</td><td>0.570</td></tr> <tr><td>126</td><td>0.610</td><td></td><td>112</td><td>0.570</td></tr> <tr><td>10</td><td>0.608</td><td></td><td>121</td><td>0.565</td></tr> <tr><td>11</td><td>0.608</td><td></td><td>38</td><td>0.560</td></tr> <tr><td>14</td><td>0.608</td><td></td><td>109</td><td>0.540</td></tr> <tr><td>107</td><td>0.608</td><td></td><td>120</td><td>0.540</td></tr> <tr><td>31</td><td>0.604</td><td></td><td>136</td><td>0.305</td></tr> <tr><td>21</td><td>0.603</td><td></td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	138	2.670	UNUSED	35	0.601	116	1.300	UNUSED	12	0.600	40	0.972		104	0.600	133	0.655		113	0.600	24	0.640		115	0.600	39	0.635		36	0.598	130	0.630		26	0.596	135	0.628		19	0.595	23	0.626		15	0.593	4	0.622		111	0.592	1	0.620		3	0.591	33	0.620		8	0.591	114	0.620		118	0.590	5	0.616		140	0.590	7	0.614		16	0.588	37	0.614		137	0.587	20	0.612		34	0.585	27	0.612		6	0.584	32	0.612		119	0.580	131	0.611		22	0.572	13	0.610		105	0.570	17	0.610		110	0.570	126	0.610		112	0.570	10	0.608		121	0.565	11	0.608		38	0.560	14	0.608		109	0.540	107	0.608		120	0.540	31	0.604		136	0.305	21	0.603				<p>NITRATE SAMPLE NO.: G2 THEORETICAL VALUE 0.546 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 57 ARITHMETIC MEAN VALUE: 0.581 MEDIAN: 0.546 STANDARD DEVIATION: 0.253 REL. ST. DEVIATION (%): 43.549</p> <p>RUN 2: NUMBER OF LABORATORIES: 56 ARITHMETIC MEAN VALUE: 0.548 MEDIAN: 0.545 STANDARD DEVIATION: 0.062 REL. ST. DEVIATION (%): 11.365</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>138</td><td>2.400</td><td>UNUSED</td><td>10</td><td>0.544</td></tr> <tr><td>40</td><td>0.947</td><td></td><td>21</td><td>0.544</td></tr> <tr><td>115</td><td>0.600</td><td></td><td>15</td><td>0.540</td></tr> <tr><td>24</td><td>0.590</td><td></td><td>19</td><td>0.540</td></tr> <tr><td>133</td><td>0.587</td><td></td><td>104</td><td>0.540</td></tr> <tr><td>4</td><td>0.578</td><td></td><td>113</td><td>0.540</td></tr> <tr><td>11</td><td>0.575</td><td></td><td>26</td><td>0.539</td></tr> <tr><td>37</td><td>0.575</td><td></td><td>36</td><td>0.539</td></tr> <tr><td>39</td><td>0.565</td><td></td><td>121</td><td>0.539</td></tr> <tr><td>23</td><td>0.563</td><td></td><td>8</td><td>0.534</td></tr> <tr><td>1</td><td>0.560</td><td></td><td>111</td><td>0.534</td></tr> <tr><td>33</td><td>0.560</td><td></td><td>140</td><td>0.531</td></tr> <tr><td>114</td><td>0.560</td><td></td><td>31</td><td>0.530</td></tr> <tr><td>118</td><td>0.560</td><td></td><td>126</td><td>0.530</td></tr> <tr><td>130</td><td>0.560</td><td></td><td>3</td><td>0.529</td></tr> <tr><td>5</td><td>0.559</td><td></td><td>16</td><td>0.529</td></tr> <tr><td>137</td><td>0.557</td><td></td><td>6</td><td>0.526</td></tr> <tr><td>135</td><td>0.554</td><td></td><td>34</td><td>0.523</td></tr> <tr><td>13</td><td>0.553</td><td></td><td>105</td><td>0.519</td></tr> <tr><td>14</td><td>0.553</td><td></td><td>136</td><td>0.517</td></tr> <tr><td>32</td><td>0.553</td><td></td><td>22</td><td>0.515</td></tr> <tr><td>7</td><td>0.552</td><td></td><td>110</td><td>0.510</td></tr> <tr><td>27</td><td>0.552</td><td></td><td>112</td><td>0.510</td></tr> <tr><td>20</td><td>0.551</td><td></td><td>119</td><td>0.510</td></tr> <tr><td>35</td><td>0.551</td><td></td><td>38</td><td>0.500</td></tr> <tr><td>12</td><td>0.550</td><td></td><td>109</td><td>0.500</td></tr> <tr><td>17</td><td>0.550</td><td></td><td>120</td><td>0.500</td></tr> <tr><td>107</td><td>0.546</td><td></td><td>116</td><td>0.385</td></tr> <tr><td>131</td><td>0.546</td><td></td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	138	2.400	UNUSED	10	0.544	40	0.947		21	0.544	115	0.600		15	0.540	24	0.590		19	0.540	133	0.587		104	0.540	4	0.578		113	0.540	11	0.575		26	0.539	37	0.575		36	0.539	39	0.565		121	0.539	23	0.563		8	0.534	1	0.560		111	0.534	33	0.560		140	0.531	114	0.560		31	0.530	118	0.560		126	0.530	130	0.560		3	0.529	5	0.559		16	0.529	137	0.557		6	0.526	135	0.554		34	0.523	13	0.553		105	0.519	14	0.553		136	0.517	32	0.553		22	0.515	7	0.552		110	0.510	27	0.552		112	0.510	20	0.551		119	0.510	35	0.551		38	0.500	12	0.550		109	0.500	17	0.550		120	0.500	107	0.546		116	0.385	131	0.546			
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<p>NITRATE SAMPLE NO.: G3 THEORETICAL VALUE 0.738 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 57 ARITHMETIC MEAN VALUE: 0.788 MEDIAN: 0.740 STANDARD DEVIATION: 0.342 REL. ST. DEVIATION (%): 43.341</p> <p>RUN 2: NUMBER OF LABORATORIES: 56 ARITHMETIC MEAN VALUE: 0.744 MEDIAN: 0.740 STANDARD DEVIATION: 0.070 REL. ST. DEVIATION (%): 9.368</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>138</td><td>3.270</td><td>UNUSED</td><td>113</td><td>0.740</td></tr> <tr><td>40</td><td>1.157</td><td></td><td>126</td><td>0.740</td></tr> <tr><td>136</td><td>0.924</td><td></td><td>36</td><td>0.736</td></tr> <tr><td>24</td><td>0.830</td><td></td><td>131</td><td>0.736</td></tr> <tr><td>118</td><td>0.810</td><td></td><td>15</td><td>0.733</td></tr> <tr><td>11</td><td>0.774</td><td></td><td>13</td><td>0.730</td></tr> <tr><td>23</td><td>0.766</td><td></td><td>104</td><td>0.730</td></tr> <tr><td>1</td><td>0.760</td><td></td><td>3</td><td>0.727</td></tr> <tr><td>130</td><td>0.760</td><td></td><td>19</td><td>0.726</td></tr> <tr><td>39</td><td>0.759</td><td></td><td>26</td><td>0.725</td></tr> <tr><td>4</td><td>0.758</td><td></td><td>140</td><td>0.725</td></tr> <tr><td>135</td><td>0.758</td><td></td><td>8</td><td>0.723</td></tr> <tr><td>133</td><td>0.756</td><td></td><td>34</td><td>0.721</td></tr> <tr><td>5</td><td>0.755</td><td></td><td>22</td><td>0.720</td></tr> <tr><td>107</td><td>0.754</td><td></td><td>111</td><td>0.719</td></tr> <tr><td>7</td><td>0.752</td><td></td><td>105</td><td>0.712</td></tr> <tr><td>27</td><td>0.752</td><td></td><td>6</td><td>0.711</td></tr> <tr><td>17</td><td>0.750</td><td></td><td>16</td><td>0.701</td></tr> <tr><td>20</td><td>0.750</td><td></td><td>38</td><td>0.700</td></tr> <tr><td>33</td><td>0.750</td><td></td><td>115</td><td>0.700</td></tr> <tr><td>114</td><td>0.750</td><td></td><td>119</td><td>0.700</td></tr> <tr><td>32</td><td>0.745</td><td></td><td>121</td><td>0.698</td></tr> <tr><td>14</td><td>0.744</td><td></td><td>110</td><td>0.690</td></tr> <tr><td>31</td><td>0.743</td><td></td><td>112</td><td>0.690</td></tr> <tr><td>35</td><td>0.742</td><td></td><td>120</td><td>0.690</td></tr> <tr><td>37</td><td>0.742</td><td></td><td>137</td><td>0.689</td></tr> <tr><td>10</td><td>0.740</td><td></td><td>109</td><td>0.670</td></tr> <tr><td>12</td><td>0.740</td><td></td><td>116</td><td>0.618</td></tr> <tr><td>21</td><td>0.740</td><td></td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	138	3.270	UNUSED	113	0.740	40	1.157		126	0.740	136	0.924		36	0.736	24	0.830		131	0.736	118	0.810		15	0.733	11	0.774		13	0.730	23	0.766		104	0.730	1	0.760		3	0.727	130	0.760		19	0.726	39	0.759		26	0.725	4	0.758		140	0.725	135	0.758		8	0.723	133	0.756		34	0.721	5	0.755		22	0.720	107	0.754		111	0.719	7	0.752		105	0.712	27	0.752		6	0.711	17	0.750		16	0.701	20	0.750		38	0.700	33	0.750		115	0.700	114	0.750		119	0.700	32	0.745		121	0.698	14	0.744		110	0.690	31	0.743		112	0.690	35	0.742		120	0.690	37	0.742		137	0.689	10	0.740		109	0.670	12	0.740		116	0.618	21	0.740				<p>NITRATE SAMPLE NO.: G4 THEORETICAL VALUE 0.521 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 57 ARITHMETIC MEAN VALUE: 0.544 MEDIAN: 0.518 STANDARD DEVIATION: 0.245 REL. ST. DEVIATION (%): 45.108</p> <p>RUN 2: NUMBER OF LABORATORIES: 56 ARITHMETIC MEAN VALUE: 0.513 MEDIAN: 0.518 STANDARD DEVIATION: 0.070 REL. ST. DEVIATION (%): 13.717</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>138</td><td>2.290</td><td>UNUSED</td><td>15</td><td>0.517</td></tr> <tr><td>136</td><td>0.753</td><td></td><td>131</td><td>0.517</td></tr> <tr><td>40</td><td>0.678</td><td></td><td>10</td><td>0.516</td></tr> <tr><td>135</td><td>0.541</td><td></td><td>16</td><td>0.516</td></tr> <tr><td>130</td><td>0.540</td><td></td><td>121</td><td>0.516</td></tr> <tr><td>133</td><td>0.537</td><td></td><td>140</td><td>0.515</td></tr> <tr><td>23</td><td>0.536</td><td></td><td>19</td><td>0.514</td></tr> <tr><td>39</td><td>0.531</td><td></td><td>26</td><td>0.514</td></tr> <tr><td>11</td><td>0.530</td><td></td><td>104</td><td>0.510</td></tr> <tr><td>113</td><td>0.530</td><td></td><td>118</td><td>0.510</td></tr> <tr><td>114</td><td>0.530</td><td></td><td>8</td><td>0.508</td></tr> <tr><td>126</td><td>0.530</td><td></td><td>31</td><td>0.508</td></tr> <tr><td>4</td><td>0.529</td><td></td><td>111</td><td>0.508</td></tr> <tr><td>5</td><td>0.529</td><td></td><td>3</td><td>0.504</td></tr> <tr><td>7</td><td>0.528</td><td></td><td>34</td><td>0.503</td></tr> <tr><td>32</td><td>0.528</td><td></td><td>116</td><td>0.502</td></tr> <tr><td>14</td><td>0.525</td><td></td><td>6</td><td>0.500</td></tr> <tr><td>20</td><td>0.525</td><td></td><td>115</td><td>0.500</td></tr> <tr><td>27</td><td>0.525</td><td></td><td>105</td><td>0.495</td></tr> <tr><td>21</td><td>0.523</td><td></td><td>38</td><td>0.490</td></tr> <tr><td>13</td><td>0.522</td><td></td><td>22</td><td>0.481</td></tr> <tr><td>1</td><td>0.520</td><td></td><td>110</td><td>0.480</td></tr> <tr><td>12</td><td>0.520</td><td></td><td>112</td><td>0.480</td></tr> <tr><td>17</td><td>0.520</td><td></td><td>119</td><td>0.480</td></tr> <tr><td>33</td><td>0.520</td><td></td><td>137</td><td>0.478</td></tr> <tr><td>35</td><td>0.520</td><td></td><td>109</td><td>0.470</td></tr> <tr><td>36</td><td>0.520</td><td></td><td>120</td><td>0.470</td></tr> <tr><td>37</td><td>0.520</td><td></td><td>24</td><td>0.100</td></tr> <tr><td>107</td><td>0.518</td><td></td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	138	2.290	UNUSED	15	0.517	136	0.753		131	0.517	40	0.678		10	0.516	135	0.541		16	0.516	130	0.540		121	0.516	133	0.537		140	0.515	23	0.536		19	0.514	39	0.531		26	0.514	11	0.530		104	0.510	113	0.530		118	0.510	114	0.530		8	0.508	126	0.530		31	0.508	4	0.529		111	0.508	5	0.529		3	0.504	7	0.528		34	0.503	32	0.528		116	0.502	14	0.525		6	0.500	20	0.525		115	0.500	27	0.525		105	0.495	21	0.523		38	0.490	13	0.522		22	0.481	1	0.520		110	0.480	12	0.520		112	0.480	17	0.520		119	0.480	33	0.520		137	0.478	35	0.520		109	0.470	36	0.520		120	0.470	37	0.520		24	0.100	107	0.518			
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107	0.518																																																																																																																																																																																																																																																																																																		

Table 20: Analytical results for ammonium in precipitations sample.

<p>AMMONIUM SAMPLE NO.: G1 THEORETICAL VALUE 0.401 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 56 ARITHMETIC MEAN VALUE: 0.402 MEDIAN: 0.392 STANDARD DEVIATION: 0.045 REL. ST. DEVIATION (%): 11.119</p> <p>RUN 2: NUMBER OF LABORATORIES: 53 ARITHMETIC MEAN VALUE: 0.398 MEDIAN: 0.392 STANDARD DEVIATION: 0.027 REL. ST. DEVIATION (%): 6.734</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>40</td><td>0.609</td><td>UNUSED</td><td>26</td><td>0.392</td></tr> <tr><td>116</td><td>0.545</td><td>UNUSED</td><td>36</td><td>0.392</td></tr> <tr><td>136</td><td>0.489</td><td></td><td>131</td><td>0.391</td></tr> <tr><td>19</td><td>0.486</td><td></td><td>112</td><td>0.390</td></tr> <tr><td>17</td><td>0.454</td><td></td><td>7</td><td>0.389</td></tr> <tr><td>37</td><td>0.441</td><td></td><td>20</td><td>0.389</td></tr> <tr><td>18</td><td>0.431</td><td></td><td>21</td><td>0.388</td></tr> <tr><td>1</td><td>0.420</td><td></td><td>15</td><td>0.387</td></tr> <tr><td>33</td><td>0.420</td><td></td><td>22</td><td>0.386</td></tr> <tr><td>39</td><td>0.420</td><td></td><td>23</td><td>0.386</td></tr> <tr><td>109</td><td>0.420</td><td></td><td>111</td><td>0.386</td></tr> <tr><td>113</td><td>0.420</td><td></td><td>121</td><td>0.384</td></tr> <tr><td>11</td><td>0.410</td><td></td><td>5</td><td>0.382</td></tr> <tr><td>104</td><td>0.410</td><td></td><td>133</td><td>0.381</td></tr> <tr><td>114</td><td>0.410</td><td></td><td>12</td><td>0.380</td></tr> <tr><td>140</td><td>0.408</td><td></td><td>38</td><td>0.380</td></tr> <tr><td>13</td><td>0.404</td><td></td><td>10</td><td>0.379</td></tr> <tr><td>105</td><td>0.404</td><td></td><td>31</td><td>0.378</td></tr> <tr><td>8</td><td>0.401</td><td></td><td>27</td><td>0.377</td></tr> <tr><td>32</td><td>0.401</td><td></td><td>34</td><td>0.374</td></tr> <tr><td>6</td><td>0.400</td><td></td><td>126</td><td>0.371</td></tr> <tr><td>115</td><td>0.400</td><td></td><td>110</td><td>0.370</td></tr> <tr><td>130</td><td>0.400</td><td></td><td>119</td><td>0.370</td></tr> <tr><td>16</td><td>0.395</td><td></td><td>118</td><td>0.369</td></tr> <tr><td>35</td><td>0.395</td><td></td><td>137</td><td>0.369</td></tr> <tr><td>4</td><td>0.394</td><td></td><td>107</td><td>0.358</td></tr> <tr><td>14</td><td>0.394</td><td></td><td>3</td><td>0.350</td></tr> <tr><td>135</td><td>0.393</td><td></td><td>120</td><td>0.310</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	40	0.609	UNUSED	26	0.392	116	0.545	UNUSED	36	0.392	136	0.489		131	0.391	19	0.486		112	0.390	17	0.454		7	0.389	37	0.441		20	0.389	18	0.431		21	0.388	1	0.420		15	0.387	33	0.420		22	0.386	39	0.420		23	0.386	109	0.420		111	0.386	113	0.420		121	0.384	11	0.410		5	0.382	104	0.410		133	0.381	114	0.410		12	0.380	140	0.408		38	0.380	13	0.404		10	0.379	105	0.404		31	0.378	8	0.401		27	0.377	32	0.401		34	0.374	6	0.400		126	0.371	115	0.400		110	0.370	130	0.400		119	0.370	16	0.395		118	0.369	35	0.395		137	0.369	4	0.394		107	0.358	14	0.394		3	0.350	135	0.393		120	0.310	<p>AMMONIUM SAMPLE NO.: G2 THEORETICAL VALUE 0.261 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 56 ARITHMETIC MEAN VALUE: 0.446 MEDIAN: 0.260 STANDARD DEVIATION: 1.327 REL. ST. DEVIATION (%): 297.263</p> <p>RUN 2: NUMBER OF LABORATORIES: 55 ARITHMETIC MEAN VALUE: 0.269 MEDIAN: 0.260 STANDARD DEVIATION: 0.053 REL. ST. DEVIATION (%): 19.543</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>3</td><td>10.192</td><td>UNUSED</td><td>130</td><td>0.260</td></tr> <tr><td>40</td><td>0.515</td><td></td><td>5</td><td>0.257</td></tr> <tr><td>136</td><td>0.496</td><td></td><td>21</td><td>0.257</td></tr> <tr><td>116</td><td>0.354</td><td></td><td>7</td><td>0.255</td></tr> <tr><td>19</td><td>0.316</td><td></td><td>20</td><td>0.255</td></tr> <tr><td>39</td><td>0.315</td><td></td><td>26</td><td>0.255</td></tr> <tr><td>17</td><td>0.307</td><td></td><td>13</td><td>0.253</td></tr> <tr><td>37</td><td>0.300</td><td></td><td>35</td><td>0.253</td></tr> <tr><td>115</td><td>0.300</td><td></td><td>12</td><td>0.250</td></tr> <tr><td>133</td><td>0.287</td><td></td><td>38</td><td>0.250</td></tr> <tr><td>33</td><td>0.282</td><td></td><td>111</td><td>0.250</td></tr> <tr><td>32</td><td>0.279</td><td></td><td>135</td><td>0.248</td></tr> <tr><td>104</td><td>0.270</td><td></td><td>4</td><td>0.246</td></tr> <tr><td>109</td><td>0.270</td><td></td><td>10</td><td>0.246</td></tr> <tr><td>114</td><td>0.270</td><td></td><td>27</td><td>0.245</td></tr> <tr><td>8</td><td>0.269</td><td></td><td>126</td><td>0.245</td></tr> <tr><td>18</td><td>0.267</td><td></td><td>22</td><td>0.243</td></tr> <tr><td>31</td><td>0.264</td><td></td><td>23</td><td>0.243</td></tr> <tr><td>34</td><td>0.264</td><td></td><td>131</td><td>0.243</td></tr> <tr><td>36</td><td>0.264</td><td></td><td>112</td><td>0.240</td></tr> <tr><td>105</td><td>0.264</td><td></td><td>118</td><td>0.240</td></tr> <tr><td>11</td><td>0.263</td><td></td><td>137</td><td>0.237</td></tr> <tr><td>14</td><td>0.263</td><td></td><td>16</td><td>0.235</td></tr> <tr><td>140</td><td>0.262</td><td></td><td>121</td><td>0.232</td></tr> <tr><td>1</td><td>0.260</td><td></td><td>119</td><td>0.230</td></tr> <tr><td>6</td><td>0.260</td><td></td><td>110</td><td>0.220</td></tr> <tr><td>15</td><td>0.260</td><td></td><td>120</td><td>0.220</td></tr> <tr><td>113</td><td>0.260</td><td></td><td>107</td><td>0.218</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	3	10.192	UNUSED	130	0.260	40	0.515		5	0.257	136	0.496		21	0.257	116	0.354		7	0.255	19	0.316		20	0.255	39	0.315		26	0.255	17	0.307		13	0.253	37	0.300		35	0.253	115	0.300		12	0.250	133	0.287		38	0.250	33	0.282		111	0.250	32	0.279		135	0.248	104	0.270		4	0.246	109	0.270		10	0.246	114	0.270		27	0.245	8	0.269		126	0.245	18	0.267		22	0.243	31	0.264		23	0.243	34	0.264		131	0.243	36	0.264		112	0.240	105	0.264		118	0.240	11	0.263		137	0.237	14	0.263		16	0.235	140	0.262		121	0.232	1	0.260		119	0.230	6	0.260		110	0.220	15	0.260		120	0.220	113	0.260		107	0.218
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<p>AMMONIUM SAMPLE NO.: G3 THEORETICAL VALUE 0.481 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 56 ARITHMETIC MEAN VALUE: 0.490 MEDIAN: 0.477 STANDARD DEVIATION: 0.051 REL. ST. DEVIATION (%): 10.489</p> <p>RUN 2: NUMBER OF LABORATORIES: 53 ARITHMETIC MEAN VALUE: 0.480 MEDIAN: 0.476 STANDARD DEVIATION: 0.030 REL. ST. DEVIATION (%): 6.313</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>40</td><td>0.721</td><td>UNUSED</td><td>5</td><td>0.476</td></tr> <tr><td>116</td><td>0.650</td><td>UNUSED</td><td>26</td><td>0.476</td></tr> <tr><td>18</td><td>0.605</td><td>UNUSED</td><td>34</td><td>0.474</td></tr> <tr><td>19</td><td>0.570</td><td></td><td>135</td><td>0.474</td></tr> <tr><td>136</td><td>0.570</td><td></td><td>23</td><td>0.473</td></tr> <tr><td>17</td><td>0.544</td><td></td><td>22</td><td>0.472</td></tr> <tr><td>33</td><td>0.524</td><td></td><td>14</td><td>0.471</td></tr> <tr><td>39</td><td>0.520</td><td></td><td>20</td><td>0.471</td></tr> <tr><td>37</td><td>0.508</td><td></td><td>35</td><td>0.471</td></tr> <tr><td>1</td><td>0.507</td><td></td><td>21</td><td>0.470</td></tr> <tr><td>133</td><td>0.505</td><td></td><td>31</td><td>0.468</td></tr> <tr><td>104</td><td>0.500</td><td></td><td>10</td><td>0.465</td></tr> <tr><td>113</td><td>0.500</td><td></td><td>4</td><td>0.464</td></tr> <tr><td>114</td><td>0.500</td><td></td><td>111</td><td>0.462</td></tr> <tr><td>115</td><td>0.500</td><td></td><td>38</td><td>0.460</td></tr> <tr><td>32</td><td>0.498</td><td></td><td>137</td><td>0.460</td></tr> <tr><td>105</td><td>0.497</td><td></td><td>27</td><td>0.454</td></tr> <tr><td>11</td><td>0.496</td><td></td><td>121</td><td>0.454</td></tr> <tr><td>8</td><td>0.492</td><td></td><td>12</td><td>0.450</td></tr> <tr><td>13</td><td>0.492</td><td></td><td>110</td><td>0.450</td></tr> <tr><td>140</td><td>0.492</td><td></td><td>112</td><td>0.450</td></tr> <tr><td>130</td><td>0.490</td><td></td><td>118</td><td>0.450</td></tr> <tr><td>131</td><td>0.490</td><td></td><td>119</td><td>0.450</td></tr> <tr><td>15</td><td>0.488</td><td></td><td>16</td><td>0.445</td></tr> <tr><td>36</td><td>0.486</td><td></td><td>126</td><td>0.444</td></tr> <tr><td>6</td><td>0.480</td><td></td><td>107</td><td>0.430</td></tr> <tr><td>109</td><td>0.480</td><td></td><td>120</td><td>0.430</td></tr> <tr><td>7</td><td>0.478</td><td></td><td>3</td><td>0.426</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	40	0.721	UNUSED	5	0.476	116	0.650	UNUSED	26	0.476	18	0.605	UNUSED	34	0.474	19	0.570		135	0.474	136	0.570		23	0.473	17	0.544		22	0.472	33	0.524		14	0.471	39	0.520		20	0.471	37	0.508		35	0.471	1	0.507		21	0.470	133	0.505		31	0.468	104	0.500		10	0.465	113	0.500		4	0.464	114	0.500		111	0.462	115	0.500		38	0.460	32	0.498		137	0.460	105	0.497		27	0.454	11	0.496		121	0.454	8	0.492		12	0.450	13	0.492		110	0.450	140	0.492		112	0.450	130	0.490		118	0.450	131	0.490		119	0.450	15	0.488		16	0.445	36	0.486		126	0.444	6	0.480		107	0.430	109	0.480		120	0.430	7	0.478		3	0.426	<p>AMMONIUM SAMPLE NO.: G4 THEORETICAL VALUE 0.221 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 56 ARITHMETIC MEAN VALUE: 0.228 MEDIAN: 0.220 STANDARD DEVIATION: 0.056 REL. ST. DEVIATION (%): 24.330</p> <p>RUN 2: NUMBER OF LABORATORIES: 53 ARITHMETIC MEAN VALUE: 0.221 MEDIAN: 0.220 STANDARD DEVIATION: 0.025 REL. ST. DEVIATION (%): 11.287</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>40</td><td>0.480</td><td>UNUSED</td><td>113</td><td>0.220</td></tr> <tr><td>136</td><td>0.462</td><td>UNUSED</td><td>130</td><td>0.220</td></tr> <tr><td>116</td><td>0.304</td><td></td><td>14</td><td>0.216</td></tr> <tr><td>18</td><td>0.274</td><td></td><td>35</td><td>0.216</td></tr> <tr><td>133</td><td>0.272</td><td></td><td>13</td><td>0.215</td></tr> <tr><td>19</td><td>0.260</td><td></td><td>26</td><td>0.215</td></tr> <tr><td>39</td><td>0.254</td><td></td><td>4</td><td>0.214</td></tr> <tr><td>17</td><td>0.253</td><td></td><td>20</td><td>0.214</td></tr> <tr><td>37</td><td>0.253</td><td></td><td>34</td><td>0.214</td></tr> <tr><td>33</td><td>0.245</td><td></td><td>1</td><td>0.210</td></tr> <tr><td>32</td><td>0.241</td><td></td><td>111</td><td>0.210</td></tr> <tr><td>109</td><td>0.240</td><td></td><td>118</td><td>0.210</td></tr> <tr><td>36</td><td>0.239</td><td></td><td>119</td><td>0.210</td></tr> <tr><td>8</td><td>0.238</td><td></td><td>126</td><td>0.209</td></tr> <tr><td>15</td><td>0.235</td><td></td><td>27</td><td>0.208</td></tr> <tr><td>5</td><td>0.234</td><td></td><td>10</td><td>0.207</td></tr> <tr><td>31</td><td>0.230</td><td></td><td>23</td><td>0.207</td></tr> <tr><td>104</td><td>0.230</td><td></td><td>22</td><td>0.201</td></tr> <tr><td>114</td><td>0.230</td><td></td><td>115</td><td>0.200</td></tr> <tr><td>105</td><td>0.225</td><td></td><td>121</td><td>0.200</td></tr> <tr><td>140</td><td>0.225</td><td></td><td>137</td><td>0.198</td></tr> <tr><td>7</td><td>0.224</td><td></td><td>135</td><td>0.193</td></tr> <tr><td>6</td><td>0.220</td><td></td><td>131</td><td>0.191</td></tr> <tr><td>11</td><td>0.220</td><td></td><td>120</td><td>0.190</td></tr> <tr><td>12</td><td>0.220</td><td></td><td>110</td><td>0.180</td></tr> <tr><td>16</td><td>0.220</td><td></td><td>3</td><td>0.172</td></tr> <tr><td>21</td><td>0.220</td><td></td><td>107</td><td>0.167</td></tr> <tr><td>38</td><td>0.220</td><td></td><td>112</td><td>0.100</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	40	0.480	UNUSED	113	0.220	136	0.462	UNUSED	130	0.220	116	0.304		14	0.216	18	0.274		35	0.216	133	0.272		13	0.215	19	0.260		26	0.215	39	0.254		4	0.214	17	0.253		20	0.214	37	0.253		34	0.214	33	0.245		1	0.210	32	0.241		111	0.210	109	0.240		118	0.210	36	0.239		119	0.210	8	0.238		126	0.209	15	0.235		27	0.208	5	0.234		10	0.207	31	0.230		23	0.207	104	0.230		22	0.201	114	0.230		115	0.200	105	0.225		121	0.200	140	0.225		137	0.198	7	0.224		135	0.193	6	0.220		131	0.191	11	0.220		120	0.190	12	0.220		110	0.180	16	0.220		3	0.172	21	0.220		107	0.167	38	0.220		112	0.100
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38	0.220		112	0.100																																																																																																																																																																																																																																																																																					

Table 21: Analytical results for pH in precipitations samples.

<p>PH SAMPLE NO.: G1 THEORETICAL VALUE 4.155 UNIT: PH units</p> <p>RUN 1: NUMBER OF LABORATORIES: 57 ARITHMETIC MEAN VALUE: 4.224 MEDIAN: 4.210 STANDARD DEVIATION: 0.167 REL. ST. DEVIATION (%): 3.945</p> <p>RUN 2: NUMBER OF LABORATORIES: 55 ARITHMETIC MEAN VALUE: 4.197 MEDIAN: 4.200 STANDARD DEVIATION: 0.054 REL. ST. DEVIATION (%): 1.285</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>137</td><td>5.330</td><td>UNUSED</td><td>7</td><td>4.200</td></tr> <tr><td>17</td><td>4.590</td><td>UNUSED</td><td>21</td><td>4.200</td></tr> <tr><td>113</td><td>4.320</td><td></td><td>120</td><td>4.200</td></tr> <tr><td>115</td><td>4.310</td><td></td><td>121</td><td>4.200</td></tr> <tr><td>14</td><td>4.260</td><td></td><td>1</td><td>4.190</td></tr> <tr><td>38</td><td>4.260</td><td></td><td>13</td><td>4.190</td></tr> <tr><td>11</td><td>4.250</td><td></td><td>131</td><td>4.190</td></tr> <tr><td>20</td><td>4.250</td><td></td><td>4</td><td>4.180</td></tr> <tr><td>112</td><td>4.250</td><td></td><td>5</td><td>4.180</td></tr> <tr><td>119</td><td>4.250</td><td></td><td>23</td><td>4.180</td></tr> <tr><td>19</td><td>4.240</td><td></td><td>105</td><td>4.180</td></tr> <tr><td>22</td><td>4.240</td><td></td><td>106</td><td>4.180</td></tr> <tr><td>39</td><td>4.240</td><td></td><td>3</td><td>4.170</td></tr> <tr><td>104</td><td>4.240</td><td></td><td>6</td><td>4.170</td></tr> <tr><td>24</td><td>4.230</td><td></td><td>12</td><td>4.170</td></tr> <tr><td>36</td><td>4.230</td><td></td><td>109</td><td>4.170</td></tr> <tr><td>111</td><td>4.230</td><td></td><td>118</td><td>4.170</td></tr> <tr><td>133</td><td>4.230</td><td></td><td>135</td><td>4.170</td></tr> <tr><td>27</td><td>4.220</td><td></td><td>31</td><td>4.165</td></tr> <tr><td>32</td><td>4.220</td><td></td><td>130</td><td>4.150</td></tr> <tr><td>35</td><td>4.220</td><td></td><td>136</td><td>4.140</td></tr> <tr><td>107</td><td>4.220</td><td></td><td>16</td><td>4.130</td></tr> <tr><td>110</td><td>4.220</td><td></td><td>126</td><td>4.130</td></tr> <tr><td>114</td><td>4.220</td><td></td><td>10</td><td>4.120</td></tr> <tr><td>8</td><td>4.211</td><td></td><td>116</td><td>4.120</td></tr> <tr><td>34</td><td>4.211</td><td></td><td>140</td><td>4.110</td></tr> <tr><td>15</td><td>4.210</td><td></td><td>18</td><td>4.050</td></tr> <tr><td>26</td><td>4.210</td><td></td><td>37</td><td>4.020</td></tr> <tr><td>33</td><td>4.210</td><td></td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	137	5.330	UNUSED	7	4.200	17	4.590	UNUSED	21	4.200	113	4.320		120	4.200	115	4.310		121	4.200	14	4.260		1	4.190	38	4.260		13	4.190	11	4.250		131	4.190	20	4.250		4	4.180	112	4.250		5	4.180	119	4.250		23	4.180	19	4.240		105	4.180	22	4.240		106	4.180	39	4.240		3	4.170	104	4.240		6	4.170	24	4.230		12	4.170	36	4.230		109	4.170	111	4.230		118	4.170	133	4.230		135	4.170	27	4.220		31	4.165	32	4.220		130	4.150	35	4.220		136	4.140	107	4.220		16	4.130	110	4.220		126	4.130	114	4.220		10	4.120	8	4.211		116	4.120	34	4.211		140	4.110	15	4.210		18	4.050	26	4.210		37	4.020	33	4.210				<p>PH SAMPLE NO.: G2 THEORETICAL VALUE 4.097 UNIT: PH UNITS</p> <p>RUN 1: NUMBER OF LABORATORIES: 57 ARITHMETIC MEAN VALUE: 4.316 MEDIAN: 4.130 STANDARD DEVIATION: 1.326 REL. ST. DEVIATION (%): 30.714</p> <p>RUN 2: NUMBER OF LABORATORIES: 56 ARITHMETIC MEAN VALUE: 4.141 MEDIAN: 4.130 STANDARD DEVIATION: 0.120 REL. ST. DEVIATION (%): 2.905</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>3</td><td>14.108</td><td>UNUSED</td><td>17</td><td>4.130</td></tr> <tr><td>137</td><td>4.950</td><td></td><td>21</td><td>4.130</td></tr> <tr><td>115</td><td>4.210</td><td></td><td>36</td><td>4.130</td></tr> <tr><td>112</td><td>4.200</td><td></td><td>113</td><td>4.130</td></tr> <tr><td>11</td><td>4.190</td><td></td><td>121</td><td>4.130</td></tr> <tr><td>14</td><td>4.190</td><td></td><td>135</td><td>4.130</td></tr> <tr><td>20</td><td>4.180</td><td></td><td>1</td><td>4.120</td></tr> <tr><td>22</td><td>4.180</td><td></td><td>7</td><td>4.120</td></tr> <tr><td>19</td><td>4.170</td><td></td><td>104</td><td>4.120</td></tr> <tr><td>24</td><td>4.170</td><td></td><td>106</td><td>4.120</td></tr> <tr><td>26</td><td>4.160</td><td></td><td>119</td><td>4.120</td></tr> <tr><td>32</td><td>4.160</td><td></td><td>131</td><td>4.120</td></tr> <tr><td>35</td><td>4.160</td><td></td><td>31</td><td>4.118</td></tr> <tr><td>39</td><td>4.160</td><td></td><td>12</td><td>4.110</td></tr> <tr><td>111</td><td>4.160</td><td></td><td>23</td><td>4.110</td></tr> <tr><td>15</td><td>4.150</td><td></td><td>105</td><td>4.110</td></tr> <tr><td>27</td><td>4.150</td><td></td><td>6</td><td>4.100</td></tr> <tr><td>33</td><td>4.150</td><td></td><td>109</td><td>4.100</td></tr> <tr><td>38</td><td>4.150</td><td></td><td>130</td><td>4.100</td></tr> <tr><td>114</td><td>4.150</td><td></td><td>118</td><td>4.090</td></tr> <tr><td>120</td><td>4.150</td><td></td><td>140</td><td>4.090</td></tr> <tr><td>133</td><td>4.150</td><td></td><td>16</td><td>4.080</td></tr> <tr><td>8</td><td>4.148</td><td></td><td>116</td><td>4.080</td></tr> <tr><td>107</td><td>4.140</td><td></td><td>126</td><td>4.080</td></tr> <tr><td>110</td><td>4.140</td><td></td><td>10</td><td>4.060</td></tr> <tr><td>34</td><td>4.134</td><td></td><td>18</td><td>3.990</td></tr> <tr><td>4</td><td>4.130</td><td></td><td>136</td><td>3.990</td></tr> <tr><td>5</td><td>4.130</td><td></td><td>37</td><td>3.940</td></tr> <tr><td>13</td><td>4.130</td><td></td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	3	14.108	UNUSED	17	4.130	137	4.950		21	4.130	115	4.210		36	4.130	112	4.200		113	4.130	11	4.190		121	4.130	14	4.190		135	4.130	20	4.180		1	4.120	22	4.180		7	4.120	19	4.170		104	4.120	24	4.170		106	4.120	26	4.160		119	4.120	32	4.160		131	4.120	35	4.160		31	4.118	39	4.160		12	4.110	111	4.160		23	4.110	15	4.150		105	4.110	27	4.150		6	4.100	33	4.150		109	4.100	38	4.150		130	4.100	114	4.150		118	4.090	120	4.150		140	4.090	133	4.150		16	4.080	8	4.148		116	4.080	107	4.140		126	4.080	110	4.140		10	4.060	34	4.134		18	3.990	4	4.130		136	3.990	5	4.130		37	3.940	13	4.130			
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<p>PH SAMPLE NO.: G3 THEORETICAL VALUE 4.426 UNIT: PH units</p> <p>RUN 1: NUMBER OF LABORATORIES: 57 ARITHMETIC MEAN VALUE: 4.460 MEDIAN: 4.460 STANDARD DEVIATION: 0.106 REL. ST. DEVIATION (%): 2.373</p> <p>RUN 2: NUMBER OF LABORATORIES: 56 ARITHMETIC MEAN VALUE: 4.448 MEDIAN: 4.460 STANDARD DEVIATION: 0.053 REL. ST. DEVIATION (%): 1.200</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>137</td><td>5.140</td><td>UNUSED</td><td>120</td><td>4.460</td></tr> <tr><td>130</td><td>4.630</td><td></td><td>13</td><td>4.450</td></tr> <tr><td>19</td><td>4.540</td><td></td><td>17</td><td>4.450</td></tr> <tr><td>112</td><td>4.530</td><td></td><td>131</td><td>4.450</td></tr> <tr><td>14</td><td>4.510</td><td></td><td>1</td><td>4.440</td></tr> <tr><td>20</td><td>4.510</td><td></td><td>7</td><td>4.440</td></tr> <tr><td>35</td><td>4.510</td><td></td><td>104</td><td>4.440</td></tr> <tr><td>11</td><td>4.490</td><td></td><td>106</td><td>4.440</td></tr> <tr><td>24</td><td>4.480</td><td></td><td>119</td><td>4.440</td></tr> <tr><td>36</td><td>4.480</td><td></td><td>121</td><td>4.440</td></tr> <tr><td>38</td><td>4.480</td><td></td><td>12</td><td>4.430</td></tr> <tr><td>39</td><td>4.480</td><td></td><td>105</td><td>4.430</td></tr> <tr><td>107</td><td>4.480</td><td></td><td>3</td><td>4.422</td></tr> <tr><td>110</td><td>4.480</td><td></td><td>31</td><td>4.422</td></tr> <tr><td>111</td><td>4.480</td><td></td><td>6</td><td>4.420</td></tr> <tr><td>4</td><td>4.470</td><td></td><td>16</td><td>4.420</td></tr> <tr><td>15</td><td>4.470</td><td></td><td>113</td><td>4.420</td></tr> <tr><td>27</td><td>4.470</td><td></td><td>109</td><td>4.410</td></tr> <tr><td>32</td><td>4.470</td><td></td><td>140</td><td>4.410</td></tr> <tr><td>33</td><td>4.470</td><td></td><td>23</td><td>4.400</td></tr> <tr><td>34</td><td>4.467</td><td></td><td>135</td><td>4.400</td></tr> <tr><td>8</td><td>4.464</td><td></td><td>10</td><td>4.380</td></tr> <tr><td>5</td><td>4.460</td><td></td><td>37</td><td>4.380</td></tr> <tr><td>21</td><td>4.460</td><td></td><td>118</td><td>4.380</td></tr> <tr><td>22</td><td>4.460</td><td></td><td>133</td><td>4.370</td></tr> <tr><td>26</td><td>4.460</td><td></td><td>126</td><td>4.360</td></tr> <tr><td>114</td><td>4.460</td><td></td><td>18</td><td>4.310</td></tr> <tr><td>115</td><td>4.460</td><td></td><td>136</td><td>4.290</td></tr> <tr><td>116</td><td>4.460</td><td></td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	137	5.140	UNUSED	120	4.460	130	4.630		13	4.450	19	4.540		17	4.450	112	4.530		131	4.450	14	4.510		1	4.440	20	4.510		7	4.440	35	4.510		104	4.440	11	4.490		106	4.440	24	4.480		119	4.440	36	4.480		121	4.440	38	4.480		12	4.430	39	4.480		105	4.430	107	4.480		3	4.422	110	4.480		31	4.422	111	4.480		6	4.420	4	4.470		16	4.420	15	4.470		113	4.420	27	4.470		109	4.410	32	4.470		140	4.410	33	4.470		23	4.400	34	4.467		135	4.400	8	4.464		10	4.380	5	4.460		37	4.380	21	4.460		118	4.380	22	4.460		133	4.370	26	4.460		126	4.360	114	4.460		18	4.310	115	4.460		136	4.290	116	4.460				<p>PH SAMPLE NO.: G4 THEORETICAL VALUE 4.398 UNIT: PH units</p> <p>RUN 1: NUMBER OF LABORATORIES: 57 ARITHMETIC MEAN VALUE: 4.439 MEDIAN: 4.420 STANDARD DEVIATION: 0.132 REL. ST. DEVIATION (%): 2.976</p> <p>RUN 2: NUMBER OF LABORATORIES: 55 ARITHMETIC MEAN VALUE: 4.417 MEDIAN: 4.420 STANDARD DEVIATION: 0.061 REL. ST. DEVIATION (%): 1.380</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>137</td><td>5.130</td><td>UNUSED</td><td>7</td><td>4.420</td></tr> <tr><td>133</td><td>4.960</td><td>UNUSED</td><td>17</td><td>4.420</td></tr> <tr><td>19</td><td>4.510</td><td></td><td>23</td><td>4.420</td></tr> <tr><td>14</td><td>4.500</td><td></td><td>105</td><td>4.420</td></tr> <tr><td>111</td><td>4.500</td><td></td><td>115</td><td>4.420</td></tr> <tr><td>112</td><td>4.500</td><td></td><td>121</td><td>4.420</td></tr> <tr><td>20</td><td>4.490</td><td></td><td>131</td><td>4.420</td></tr> <tr><td>107</td><td>4.490</td><td></td><td>6</td><td>4.410</td></tr> <tr><td>35</td><td>4.480</td><td></td><td>12</td><td>4.410</td></tr> <tr><td>11</td><td>4.470</td><td></td><td>106</td><td>4.410</td></tr> <tr><td>110</td><td>4.470</td><td></td><td>119</td><td>4.410</td></tr> <tr><td>24</td><td>4.460</td><td></td><td>31</td><td>4.404</td></tr> <tr><td>38</td><td>4.460</td><td></td><td>3</td><td>4.401</td></tr> <tr><td>39</td><td>4.460</td><td></td><td>113</td><td>4.400</td></tr> <tr><td>27</td><td>4.450</td><td></td><td>114</td><td>4.400</td></tr> <tr><td>33</td><td>4.450</td><td></td><td>130</td><td>4.400</td></tr> <tr><td>120</td><td>4.450</td><td></td><td>16</td><td>4.390</td></tr> <tr><td>8</td><td>4.446</td><td></td><td>109</td><td>4.390</td></tr> <tr><td>15</td><td>4.440</td><td></td><td>118</td><td>4.390</td></tr> <tr><td>22</td><td>4.440</td><td></td><td>116</td><td>4.380</td></tr> <tr><td>26</td><td>4.440</td><td></td><td>10</td><td>4.360</td></tr> <tr><td>32</td><td>4.440</td><td></td><td>135</td><td>4.360</td></tr> <tr><td>34</td><td>4.439</td><td></td><td>1</td><td>4.350</td></tr> <tr><td>4</td><td>4.430</td><td></td><td>126</td><td>4.350</td></tr> <tr><td>13</td><td>4.430</td><td></td><td>140</td><td>4.310</td></tr> <tr><td>21</td><td>4.430</td><td></td><td>18</td><td>4.280</td></tr> <tr><td>36</td><td>4.430</td><td></td><td>136</td><td>4.240</td></tr> <tr><td>104</td><td>4.430</td><td></td><td>37</td><td>4.180</td></tr> <tr><td>5</td><td>4.420</td><td></td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	137	5.130	UNUSED	7	4.420	133	4.960	UNUSED	17	4.420	19	4.510		23	4.420	14	4.500		105	4.420	111	4.500		115	4.420	112	4.500		121	4.420	20	4.490		131	4.420	107	4.490		6	4.410	35	4.480		12	4.410	11	4.470		106	4.410	110	4.470		119	4.410	24	4.460		31	4.404	38	4.460		3	4.401	39	4.460		113	4.400	27	4.450		114	4.400	33	4.450		130	4.400	120	4.450		16	4.390	8	4.446		109	4.390	15	4.440		118	4.390	22	4.440		116	4.380	26	4.440		10	4.360	32	4.440		135	4.360	34	4.439		1	4.350	4	4.430		126	4.350	13	4.430		140	4.310	21	4.430		18	4.280	36	4.430		136	4.240	104	4.430		37	4.180	5	4.420			
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Table 22: Analytical results for strong acid calculated from pH.

<p>STRONG ACID CALCULATED FROM PH SAMPLE NO.: G1 THEORETICAL VALUE 70.000 UNIT: µeq/l</p> <p>RUN 1: NUMBER OF LABORATORIES: 56 ARITHMETIC MEAN VALUE: 62.576 MEDIAN: 62.380 STANDARD DEVIATION: 12.673 REL. ST. DEVIATION (%): 20.252</p> <p>RUN 2: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 63.255 MEDIAN: 62.380 STANDARD DEVIATION: 6.727 REL. ST. DEVIATION (%): 10.635</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tr><td>37</td><td>95.500</td><td>UNUSED</td><td>15</td><td>61.660</td></tr> <tr><td>18</td><td>89.130</td><td>UNUSED</td><td>26</td><td>61.660</td></tr> <tr><td>130</td><td>79.430</td><td></td><td>33</td><td>61.660</td></tr> <tr><td>140</td><td>77.620</td><td></td><td>8</td><td>61.590</td></tr> <tr><td>10</td><td>75.860</td><td></td><td>34</td><td>61.520</td></tr> <tr><td>116</td><td>75.860</td><td></td><td>27</td><td>60.260</td></tr> <tr><td>16</td><td>74.130</td><td></td><td>32</td><td>60.260</td></tr> <tr><td>126</td><td>74.130</td><td></td><td>35</td><td>60.260</td></tr> <tr><td>136</td><td>72.440</td><td></td><td>107</td><td>60.260</td></tr> <tr><td>31</td><td>68.390</td><td></td><td>110</td><td>60.260</td></tr> <tr><td>6</td><td>67.610</td><td></td><td>114</td><td>60.260</td></tr> <tr><td>12</td><td>67.610</td><td></td><td>24</td><td>58.880</td></tr> <tr><td>109</td><td>67.610</td><td></td><td>36</td><td>58.880</td></tr> <tr><td>118</td><td>67.610</td><td></td><td>111</td><td>58.880</td></tr> <tr><td>135</td><td>67.610</td><td></td><td>133</td><td>58.880</td></tr> <tr><td>3</td><td>67.450</td><td></td><td>19</td><td>57.540</td></tr> <tr><td>4</td><td>66.070</td><td></td><td>22</td><td>57.540</td></tr> <tr><td>5</td><td>66.070</td><td></td><td>104</td><td>57.540</td></tr> <tr><td>23</td><td>66.070</td><td></td><td>11</td><td>56.230</td></tr> <tr><td>105</td><td>66.070</td><td></td><td>20</td><td>56.230</td></tr> <tr><td>106</td><td>66.070</td><td></td><td>112</td><td>56.230</td></tr> <tr><td>1</td><td>64.570</td><td></td><td>119</td><td>56.230</td></tr> <tr><td>13</td><td>64.570</td><td></td><td>14</td><td>54.950</td></tr> <tr><td>131</td><td>64.570</td><td></td><td>38</td><td>54.950</td></tr> <tr><td>7</td><td>63.100</td><td></td><td>115</td><td>48.980</td></tr> <tr><td>21</td><td>63.100</td><td></td><td>113</td><td>47.860</td></tr> <tr><td>120</td><td>63.100</td><td></td><td>17</td><td>25.700</td><td>UNUSED</td></tr> <tr><td>121</td><td>63.100</td><td></td><td>137</td><td>4.680</td><td>UNUSED</td></tr> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	37	95.500	UNUSED	15	61.660	18	89.130	UNUSED	26	61.660	130	79.430		33	61.660	140	77.620		8	61.590	10	75.860		34	61.520	116	75.860		27	60.260	16	74.130		32	60.260	126	74.130		35	60.260	136	72.440		107	60.260	31	68.390		110	60.260	6	67.610		114	60.260	12	67.610		24	58.880	109	67.610		36	58.880	118	67.610		111	58.880	135	67.610		133	58.880	3	67.450		19	57.540	4	66.070		22	57.540	5	66.070		104	57.540	23	66.070		11	56.230	105	66.070		20	56.230	106	66.070		112	56.230	1	64.570		119	56.230	13	64.570		14	54.950	131	64.570		38	54.950	7	63.100		115	48.980	21	63.100		113	47.860	120	63.100		17	25.700	UNUSED	121	63.100		137	4.680	UNUSED	<p>STRONG ACID CALCULATED FROM PH SAMPLE NO.: G2 THEORETICAL VALUE 80.000 UNIT: µeq/l</p> <p>RUN 1: NUMBER OF LABORATORIES: 57 ARITHMETIC MEAN VALUE: 73.223 MEDIAN: 74.130 STANDARD DEVIATION: 14.182 REL. ST. DEVIATION (%): 19.368</p> <p>RUN 2: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 73.453 MEDIAN: 74.130 STANDARD DEVIATION: 5.446 REL. ST. DEVIATION (%): 7.415</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tr><td>37</td><td>114.820</td><td>UNUSED</td><td>121</td><td>74.130</td></tr> <tr><td>18</td><td>102.330</td><td>UNUSED</td><td>135</td><td>74.130</td></tr> <tr><td>136</td><td>102.330</td><td>UNUSED</td><td>34</td><td>73.450</td></tr> <tr><td>10</td><td>87.100</td><td></td><td>107</td><td>72.440</td></tr> <tr><td>16</td><td>83.180</td><td></td><td>110</td><td>72.440</td></tr> <tr><td>116</td><td>83.180</td><td></td><td>8</td><td>71.120</td></tr> <tr><td>126</td><td>83.180</td><td></td><td>15</td><td>70.790</td></tr> <tr><td>118</td><td>81.280</td><td></td><td>27</td><td>70.790</td></tr> <tr><td>140</td><td>81.280</td><td></td><td>33</td><td>70.790</td></tr> <tr><td>6</td><td>79.430</td><td></td><td>38</td><td>70.790</td></tr> <tr><td>109</td><td>79.430</td><td></td><td>114</td><td>70.790</td></tr> <tr><td>3</td><td>77.980</td><td></td><td>120</td><td>70.790</td></tr> <tr><td>12</td><td>77.620</td><td></td><td>133</td><td>70.790</td></tr> <tr><td>23</td><td>77.620</td><td></td><td>26</td><td>69.180</td></tr> <tr><td>105</td><td>77.620</td><td></td><td>32</td><td>69.180</td></tr> <tr><td>31</td><td>76.210</td><td></td><td>35</td><td>69.180</td></tr> <tr><td>1</td><td>75.860</td><td></td><td>39</td><td>69.180</td></tr> <tr><td>7</td><td>75.860</td><td></td><td>111</td><td>69.180</td></tr> <tr><td>104</td><td>75.860</td><td></td><td>19</td><td>67.610</td></tr> <tr><td>106</td><td>75.860</td><td></td><td>24</td><td>67.610</td></tr> <tr><td>119</td><td>75.860</td><td></td><td>20</td><td>66.070</td></tr> <tr><td>131</td><td>75.860</td><td></td><td>22</td><td>66.070</td></tr> <tr><td>4</td><td>74.130</td><td></td><td>11</td><td>64.570</td></tr> <tr><td>5</td><td>74.130</td><td></td><td>14</td><td>64.570</td></tr> <tr><td>13</td><td>74.130</td><td></td><td>112</td><td>63.100</td></tr> <tr><td>17</td><td>74.130</td><td></td><td>115</td><td>61.660</td></tr> <tr><td>21</td><td>74.130</td><td></td><td>130</td><td>23.440</td><td>UNUSED</td></tr> <tr><td>36</td><td>74.130</td><td></td><td>137</td><td>11.220</td><td>UNUSED</td></tr> <tr><td>113</td><td>74.130</td><td></td><td></td><td></td><td></td></tr> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	37	114.820	UNUSED	121	74.130	18	102.330	UNUSED	135	74.130	136	102.330	UNUSED	34	73.450	10	87.100		107	72.440	16	83.180		110	72.440	116	83.180		8	71.120	126	83.180		15	70.790	118	81.280		27	70.790	140	81.280		33	70.790	6	79.430		38	70.790	109	79.430		114	70.790	3	77.980		120	70.790	12	77.620		133	70.790	23	77.620		26	69.180	105	77.620		32	69.180	31	76.210		35	69.180	1	75.860		39	69.180	7	75.860		111	69.180	104	75.860		19	67.610	106	75.860		24	67.610	119	75.860		20	66.070	131	75.860		22	66.070	4	74.130		11	64.570	5	74.130		14	64.570	13	74.130		112	63.100	17	74.130		115	61.660	21	74.130		130	23.440	UNUSED	36	74.130		137	11.220	UNUSED	113	74.130				
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<p>STRONG ACID CALCULATED FROM PH SAMPLE NO.: G3 THEORETICAL VALUE 37.500 UNIT: µeq/l</p> <p>RUN 1: NUMBER OF LABORATORIES: 57 ARITHMETIC MEAN VALUE: 35.700 MEDIAN: 34.670 STANDARD DEVIATION: 5.659 REL. ST. DEVIATION (%): 15.853</p> <p>RUN 2: NUMBER OF LABORATORIES: 54 ARITHMETIC MEAN VALUE: 35.692 MEDIAN: 34.670 STANDARD DEVIATION: 3.263 REL. ST. DEVIATION (%): 9.142</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tr><td>136</td><td>51.290</td><td>UNUSED</td><td>21</td><td>34.670</td></tr> <tr><td>18</td><td>48.980</td><td>UNUSED</td><td>22</td><td>34.670</td></tr> <tr><td>126</td><td>43.650</td><td></td><td>26</td><td>34.670</td></tr> <tr><td>133</td><td>42.660</td><td></td><td>114</td><td>34.670</td></tr> <tr><td>10</td><td>41.690</td><td></td><td>115</td><td>34.670</td></tr> <tr><td>37</td><td>41.690</td><td></td><td>116</td><td>34.670</td></tr> <tr><td>118</td><td>41.690</td><td></td><td>120</td><td>34.670</td></tr> <tr><td>23</td><td>39.810</td><td></td><td>8</td><td>34.360</td></tr> <tr><td>130</td><td>39.810</td><td></td><td>34</td><td>34.120</td></tr> <tr><td>135</td><td>39.810</td><td></td><td>4</td><td>33.880</td></tr> <tr><td>109</td><td>38.900</td><td></td><td>15</td><td>33.880</td></tr> <tr><td>140</td><td>38.900</td><td></td><td>27</td><td>33.880</td></tr> <tr><td>6</td><td>38.020</td><td></td><td>32</td><td>33.880</td></tr> <tr><td>16</td><td>38.020</td><td></td><td>33</td><td>33.880</td></tr> <tr><td>113</td><td>38.020</td><td></td><td>24</td><td>33.110</td></tr> <tr><td>3</td><td>37.840</td><td></td><td>36</td><td>33.110</td></tr> <tr><td>31</td><td>37.840</td><td></td><td>38</td><td>33.110</td></tr> <tr><td>12</td><td>37.150</td><td></td><td>39</td><td>33.110</td></tr> <tr><td>105</td><td>37.150</td><td></td><td>107</td><td>33.110</td></tr> <tr><td>1</td><td>36.310</td><td></td><td>110</td><td>33.110</td></tr> <tr><td>7</td><td>36.310</td><td></td><td>111</td><td>33.110</td></tr> <tr><td>104</td><td>36.310</td><td></td><td>11</td><td>32.360</td></tr> <tr><td>106</td><td>36.310</td><td></td><td>14</td><td>30.900</td></tr> <tr><td>119</td><td>36.310</td><td></td><td>20</td><td>30.900</td></tr> <tr><td>121</td><td>36.310</td><td></td><td>35</td><td>30.900</td></tr> <tr><td>13</td><td>35.480</td><td></td><td>112</td><td>29.510</td></tr> <tr><td>17</td><td>35.480</td><td></td><td>19</td><td>28.840</td></tr> <tr><td>131</td><td>35.480</td><td></td><td>137</td><td>7.240</td><td>UNUSED</td></tr> <tr><td>5</td><td>34.670</td><td></td><td></td><td></td><td></td></tr> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	136	51.290	UNUSED	21	34.670	18	48.980	UNUSED	22	34.670	126	43.650		26	34.670	133	42.660		114	34.670	10	41.690		115	34.670	37	41.690		116	34.670	118	41.690		120	34.670	23	39.810		8	34.360	130	39.810		34	34.120	135	39.810		4	33.880	109	38.900		15	33.880	140	38.900		27	33.880	6	38.020		32	33.880	16	38.020		33	33.880	113	38.020		24	33.110	3	37.840		36	33.110	31	37.840		38	33.110	12	37.150		39	33.110	105	37.150		107	33.110	1	36.310		110	33.110	7	36.310		111	33.110	104	36.310		11	32.360	106	36.310		14	30.900	119	36.310		20	30.900	121	36.310		35	30.900	13	35.480		112	29.510	17	35.480		19	28.840	131	35.480		137	7.240	UNUSED	5	34.670					<p>STRONG ACID CALCULATED FROM PH SAMPLE NO.: G4 THEORETICAL VALUE 40.000 UNIT: µeq/l</p> <p>RUN 1: NUMBER OF LABORATORIES: 56 ARITHMETIC MEAN VALUE: 37.634 MEDIAN: 37.585 STANDARD DEVIATION: 8.237 REL. ST. DEVIATION (%): 21.888</p> <p>RUN 2: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 37.799 MEDIAN: 37.585 STANDARD DEVIATION: 4.202 REL. ST. DEVIATION (%): 11.118</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tr><td>37</td><td>66.070</td><td>UNUSED</td><td>4</td><td>37.150</td></tr> <tr><td>136</td><td>57.540</td><td>UNUSED</td><td>13</td><td>37.150</td></tr> <tr><td>18</td><td>52.480</td><td></td><td>21</td><td>37.150</td></tr> <tr><td>140</td><td>48.980</td><td></td><td>36</td><td>37.150</td></tr> <tr><td>1</td><td>44.670</td><td></td><td>104</td><td>37.150</td></tr> <tr><td>126</td><td>44.670</td><td></td><td>34</td><td>36.390</td></tr> <tr><td>10</td><td>43.650</td><td></td><td>15</td><td>36.310</td></tr> <tr><td>135</td><td>43.650</td><td></td><td>22</td><td>36.310</td></tr> <tr><td>116</td><td>41.690</td><td></td><td>26</td><td>36.310</td></tr> <tr><td>16</td><td>40.740</td><td></td><td>32</td><td>36.310</td></tr> <tr><td>109</td><td>40.740</td><td></td><td>8</td><td>35.810</td></tr> <tr><td>118</td><td>40.740</td><td></td><td>27</td><td>35.480</td></tr> <tr><td>113</td><td>39.810</td><td></td><td>33</td><td>35.480</td></tr> <tr><td>114</td><td>39.810</td><td></td><td>120</td><td>35.480</td></tr> <tr><td>3</td><td>39.720</td><td></td><td>24</td><td>34.670</td></tr> <tr><td>31</td><td>39.450</td><td></td><td>38</td><td>34.670</td></tr> <tr><td>6</td><td>38.900</td><td></td><td>39</td><td>34.670</td></tr> <tr><td>12</td><td>38.900</td><td></td><td>11</td><td>33.880</td></tr> <tr><td>106</td><td>38.900</td><td></td><td>110</td><td>33.880</td></tr> <tr><td>119</td><td>38.900</td><td></td><td>35</td><td>33.110</td></tr> <tr><td>5</td><td>38.020</td><td></td><td>20</td><td>32.360</td></tr> <tr><td>7</td><td>38.020</td><td></td><td>107</td><td>32.360</td></tr> <tr><td>17</td><td>38.020</td><td></td><td>14</td><td>31.620</td></tr> <tr><td>23</td><td>38.020</td><td></td><td>111</td><td>31.620</td></tr> <tr><td>105</td><td>38.020</td><td></td><td>112</td><td>31.620</td></tr> <tr><td>115</td><td>38.020</td><td></td><td>19</td><td>30.900</td></tr> <tr><td>121</td><td>38.020</td><td></td><td>133</td><td>10.960</td><td>UNUSED</td></tr> <tr><td>131</td><td>38.020</td><td></td><td>137</td><td>7.410</td><td>UNUSED</td></tr> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	37	66.070	UNUSED	4	37.150	136	57.540	UNUSED	13	37.150	18	52.480		21	37.150	140	48.980		36	37.150	1	44.670		104	37.150	126	44.670		34	36.390	10	43.650		15	36.310	135	43.650		22	36.310	116	41.690		26	36.310	16	40.740		32	36.310	109	40.740		8	35.810	118	40.740		27	35.480	113	39.810		33	35.480	114	39.810		120	35.480	3	39.720		24	34.670	31	39.450		38	34.670	6	38.900		39	34.670	12	38.900		11	33.880	106	38.900		110	33.880	119	38.900		35	33.110	5	38.020		20	32.360	7	38.020		107	32.360	17	38.020		14	31.620	23	38.020		111	31.620	105	38.020		112	31.620	115	38.020		19	30.900	121	38.020		133	10.960	UNUSED	131	38.020		137	7.410	UNUSED	
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Table 23: Analytical results for strong acid in precipitations samples.

<p>STRONG ACIDS SAMPLE NO.: G1 THEORETICAL VALUE: 70 UNIT: μeq</p> <p>RUN 1: NUMBER OF LABORATORIES: 15 ARITHMETIC MEAN VALUE: 65.395 MEDIAN: 66.000 STANDARD DEVIATION: 5.669 REL. ST. DEVIATION (%): 8.668</p> <p>RUN 2: NUMBER OF LABORATORIES: 14 ARITHMETIC MEAN VALUE: 64.495 MEDIAN: 64.800 STANDARD DEVIATION: 4.638 REL. ST. DEVIATION (%): 7.191</p> <p>RESULTS IN DECREASING ORDER: 140 78.000 UNUSED 14 63.600 126 74.000 34 62.000 109 68.140 27 60.720 6 68.000 32 60.256 118 68.000 35 60.250 135 67.610 36 58.900 3 67.450 104 58.000 105 66.000</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	<p>STRONG ACIDS SAMPLE NO.: G2 THEORETICAL VALUE: 80 UNIT: μeq</p> <p>RUN 1: NUMBER OF LABORATORIES: 15 ARITHMETIC MEAN VALUE: 75.410 MEDIAN: 76.000 STANDARD DEVIATION: 4.761 REL. ST. DEVIATION (%): 6.313</p> <p>RUN 2: NUMBER OF LABORATORIES: 15 ARITHMETIC MEAN VALUE: 75.410 MEDIAN: 76.000 STANDARD DEVIATION: 4.761 REL. ST. DEVIATION (%): 6.313</p> <p>RESULTS IN DECREASING ORDER: 126 83.000 135 74.130 118 81.000 36 74.100 140 81.000 34 73.000 109 78.860 27 70.310 105 78.000 32 69.183 3 77.983 35 69.180 14 77.400 6 68.000 104 76.000</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>
<p>STRONG ACIDS SAMPLE NO.: G3 THEORETICAL VALUE: 38 UNIT: μeq</p> <p>RUN 1: NUMBER OF LABORATORIES: 15 ARITHMETIC MEAN VALUE: 37.157 MEDIAN: 36.300 STANDARD DEVIATION: 4.368 REL. ST. DEVIATION (%): 11.757</p> <p>RUN 2: NUMBER OF LABORATORIES: 14 ARITHMETIC MEAN VALUE: 36.311 MEDIAN: 36.150 STANDARD DEVIATION: 2.998 REL. ST. DEVIATION (%): 8.258</p> <p>RESULTS IN DECREASING ORDER: 126 49.000 UNUSED 6 36.000 118 42.000 104 36.000 135 39.810 34 34.000 140 39.000 27 33.890 109 38.620 32 33.884 3 37.844 36 33.100 105 37.000 35 30.900 14 36.300</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	<p>STRONG ACIDS SAMPLE NO.: G4 THEORETICAL VALUE: 40 UNIT: μeq</p> <p>RUN 1: NUMBER OF LABORATORIES: 15 ARITHMETIC MEAN VALUE: 39.297 MEDIAN: 38.000 STANDARD DEVIATION: 4.105 REL. ST. DEVIATION (%): 10.445</p> <p>RUN 2: NUMBER OF LABORATORIES: 14 ARITHMETIC MEAN VALUE: 38.604 MEDIAN: 38.000 STANDARD DEVIATION: 3.223 REL. ST. DEVIATION (%): 8.348</p> <p>RESULTS IN DECREASING ORDER: 140 49.000 UNUSED 105 38.000 135 44.670 36 37.200 126 44.000 104 37.000 118 41.000 32 36.308 109 40.750 34 36.000 3 39.719 27 35.500 14 39.200 35 33.110 6 38.000</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>

Table 24: Analytical results for chloride in precipitations samples.

<p>CHLORIDE SAMPLE NO.: G1 THEORETICAL VALUE 0.174 UNIT: µg Cl/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 57 ARITHMETIC MEAN VALUE: 0.206 MEDIAN: 0.171 STANDARD DEVIATION: 0.112 REL. ST. DEVIATION (%): 54.333</p> <p>RUN 2: NUMBER OF LABORATORIES: 47 ARITHMETIC MEAN VALUE: 0.182 MEDIAN: 0.171 STANDARD DEVIATION: 0.052 REL. ST. DEVIATION (%): 28.568</p> <p>RESULTS IN DECREASING ORDER: 109 < LOD 116 0.724 UNUSED 8 0.171 113 < 0.5 137 0.548 UNUSED 27 0.171 17 0.480 UNUSED 4 0.170 40 0.424 7 0.170 112 < 0.37 133 0.335 14 0.170 10 0.316 33 0.170 19 < 0.31 105 < 0.277 120 0.210 34 0.170 11 0.206 36 0.170 131 0.206 38 0.170 111 < 0.2 115 0.200 23 0.165 130 0.200 20 0.164 104 0.190 3 0.161 31 0.187 1 0.160 6 0.183 39 0.160 15 0.183 119 0.160 12 0.180 126 0.160 114 0.180 140 0.160 138 0.180 37 0.153 135 0.179 24 0.150 5 0.176 18 0.149 13 0.176 32 0.142 35 0.174 110 0.140 26 0.173 22 0.131 16 0.172 136 0.125 21 0.172 118 0.120 107 < 0.07 "UNUSED": DATA UNUSED IN RUN 2 "LOD": LIMIT OF DETECTION</p>	<p>CHLORIDE SAMPLE NO.: G2 THEORETICAL VALUE 0.232 UNIT: µg Cl/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 57 ARITHMETIC MEAN VALUE: 0.240 MEDIAN: 0.228 STANDARD DEVIATION: 0.064 REL. ST. DEVIATION (%): 26.674</p> <p>RUN 2: NUMBER OF LABORATORIES: 47 ARITHMETIC MEAN VALUE: 0.230 MEDIAN: 0.228 STANDARD DEVIATION: 0.034 REL. ST. DEVIATION (%): 14.667</p> <p>RESULTS IN DECREASING ORDER: 109 < LOD 113 < 0.5 137 0.483 UNUSED 27 0.228 40 0.430 UNUSED 36 0.224 133 0.413 UNUSED 4 0.223 112 < 0.37 11 0.357 14 0.223 131 0.329 23 0.221 19 < 0.31 115 0.300 6 0.220 105 < 0.277 116 0.275 7 0.220 110 0.270 119 0.220 130 0.260 16 0.219 138 0.250 34 0.218 18 0.249 20 0.215 17 0.240 32 0.215 31 0.240 135 0.214 104 0.240 3 0.213 21 0.234 1 0.210 13 0.233 38 0.210 15 0.233 126 0.210 10 0.232 140 0.210 12 0.230 37 0.206 33 0.230 24 0.200 114 0.230 111 < 0.2 39 0.190 120 0.230 118 0.190 5 0.229 136 0.186 35 0.229 22 0.153 8 0.228 107 0.090 UNUSED 26 0.228 "UNUSED": DATA UNUSED IN RUN 2 "LOD": LIMIT OF DETECTION</p>
<p>CHLORIDE SAMPLE NO.: G3 THEORETICAL VALUE 0.608 UNIT: µg Cl/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 58 ARITHMETIC MEAN VALUE: 0.592 MEDIAN: 0.597 STANDARD DEVIATION: 0.056 REL. ST. DEVIATION (%): 9.473</p> <p>RUN 2: NUMBER OF LABORATORIES: 53 ARITHMETIC MEAN VALUE: 0.596 MEDIAN: 0.598 STANDARD DEVIATION: 0.031 REL. ST. DEVIATION (%): 5.244</p> <p>RESULTS IN DECREASING ORDER: 137 0.771 UNUSED 17 0.596 131 0.721 UNUSED 23 0.595 135 0.659 8 0.593 11 0.655 15 0.593 113 0.650 20 0.592 136 0.644 32 0.591 133 0.638 119 0.590 40 0.632 140 0.590 110 0.630 35 0.586 112 0.630 7 0.585 138 0.630 105 0.585 31 0.623 4 0.582 121 0.622 10 0.582 16 0.617 3 0.579 116 0.614 6 0.574 21 0.613 39 0.572 26 0.611 130 0.570 24 0.610 111 0.566 13 0.607 34 0.561 27 0.607 1 0.560 19 0.601 38 0.560 12 0.600 126 0.560 33 0.600 118 0.550 104 0.600 18 0.542 114 0.600 37 0.540 115 0.600 120 0.490 14 0.599 109 0.463 UNUSED 36 0.599 22 0.420 UNUSED 5 0.598 107 0.410 UNUSED "UNUSED": DATA UNUSED IN RUN 2</p>	<p>CHLORIDE SAMPLE NO.: G4 THEORETICAL VALUE 0.724 UNIT: µg Cl/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 57 ARITHMETIC MEAN VALUE: 0.703 MEDIAN: 0.700 STANDARD DEVIATION: 0.108 REL. ST. DEVIATION (%): 15.386</p> <p>RUN 2: NUMBER OF LABORATORIES: 56 ARITHMETIC MEAN VALUE: 0.690 MEDIAN: 0.699 STANDARD DEVIATION: 0.051 REL. ST. DEVIATION (%): 7.445</p> <p>RESULTS IN DECREASING ORDER: 17 1.410 UNUSED 3 0.697 137 0.819 15 0.697 113 0.770 14 0.695 11 0.764 6 0.694 133 0.752 4 0.692 136 0.746 105 0.691 135 0.735 1 0.690 13 0.732 130 0.690 27 0.725 32 0.689 116 0.722 111 0.688 12 0.720 131 0.685 112 0.720 34 0.680 26 0.717 37 0.679 36 0.717 31 0.675 23 0.716 110 0.670 21 0.715 33 0.660 5 0.714 120 0.660 20 0.711 39 0.655 19 0.710 10 0.653 114 0.710 38 0.650 8 0.708 118 0.650 40 0.706 140 0.650 35 0.705 18 0.649 16 0.703 121 0.641 7 0.702 126 0.630 104 0.700 109 0.560 115 0.700 22 0.518 119 0.700 107 0.513 138 0.700 "UNUSED": DATA UNUSED IN RUN 2</p>

Table 25: Analytical results for sodium in precipitations samples.

<p>SODIUM SAMPLE NO.: G1 THEORETICAL VALUE 0.301 UNIT: µg Na/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 55 ARITHMETIC MEAN VALUE: 0.297 MEDIAN: 0.300 STANDARD DEVIATION: 0.047 REL. ST. DEVIATION (%): 15.957</p> <p>RUN 2: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 0.292 MEDIAN: 0.300 STANDARD DEVIATION: 0.030 REL. ST. DEVIATION (%): 10.304</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>136</td><td>0.515</td><td>UNUSED</td><td>130</td><td>0.300</td></tr> <tr><td>116</td><td>0.413</td><td>UNUSED</td><td>133</td><td>0.300</td></tr> <tr><td>34</td><td>0.360</td><td></td><td>21</td><td>0.297</td></tr> <tr><td>118</td><td>0.350</td><td></td><td>31</td><td>0.297</td></tr> <tr><td>32</td><td>0.340</td><td></td><td>3</td><td>0.296</td></tr> <tr><td>4</td><td>0.338</td><td></td><td>20</td><td>0.296</td></tr> <tr><td>40</td><td>0.334</td><td></td><td>39</td><td>0.290</td></tr> <tr><td>110</td><td>0.330</td><td></td><td>112</td><td>0.290</td></tr> <tr><td>135</td><td>0.327</td><td></td><td>11</td><td>0.284</td></tr> <tr><td>105</td><td>0.310</td><td></td><td>19</td><td>0.283</td></tr> <tr><td>114</td><td>0.310</td><td></td><td>38</td><td>0.276</td></tr> <tr><td>27</td><td>0.309</td><td></td><td>131</td><td>0.273</td></tr> <tr><td>8</td><td>0.308</td><td></td><td>14</td><td>0.271</td></tr> <tr><td>15</td><td>0.308</td><td></td><td>1</td><td>0.270</td></tr> <tr><td>36</td><td>0.307</td><td></td><td>119</td><td>0.270</td></tr> <tr><td>13</td><td>0.306</td><td></td><td>126</td><td>0.270</td></tr> <tr><td>5</td><td>0.304</td><td></td><td>140</td><td>0.270</td></tr> <tr><td>6</td><td>0.304</td><td></td><td>35</td><td>0.266</td></tr> <tr><td>7</td><td>0.304</td><td></td><td>109</td><td>0.261</td></tr> <tr><td>26</td><td>0.303</td><td></td><td>113</td><td>0.260</td></tr> <tr><td>33</td><td>0.303</td><td></td><td>138</td><td>0.260</td></tr> <tr><td>37</td><td>0.303</td><td></td><td>10</td><td>0.250</td></tr> <tr><td>16</td><td>0.302</td><td></td><td>23</td><td>0.244</td></tr> <tr><td>12</td><td>0.300</td><td></td><td>120</td><td>0.230</td></tr> <tr><td>24</td><td>0.300</td><td></td><td>107</td><td>0.225</td></tr> <tr><td>104</td><td>0.300</td><td></td><td>22</td><td>0.209</td></tr> <tr><td>115</td><td>0.300</td><td></td><td>17</td><td>0.185</td></tr> <tr><td>121</td><td>0.300</td><td></td><td></td><td>UNUSED</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	136	0.515	UNUSED	130	0.300	116	0.413	UNUSED	133	0.300	34	0.360		21	0.297	118	0.350		31	0.297	32	0.340		3	0.296	4	0.338		20	0.296	40	0.334		39	0.290	110	0.330		112	0.290	135	0.327		11	0.284	105	0.310		19	0.283	114	0.310		38	0.276	27	0.309		131	0.273	8	0.308		14	0.271	15	0.308		1	0.270	36	0.307		119	0.270	13	0.306		126	0.270	5	0.304		140	0.270	6	0.304		35	0.266	7	0.304		109	0.261	26	0.303		113	0.260	33	0.303		138	0.260	37	0.303		10	0.250	16	0.302		23	0.244	12	0.300		120	0.230	24	0.300		107	0.225	104	0.300		22	0.209	115	0.300		17	0.185	121	0.300			UNUSED	<p>SODIUM SAMPLE NO.: G2 THEORETICAL VALUE 0.499 UNIT: µg Na/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 55 ARITHMETIC MEAN VALUE: 0.483 MEDIAN: 0.489 STANDARD DEVIATION: 0.067 REL. ST. DEVIATION (%): 13.872</p> <p>RUN 2: NUMBER OF LABORATORIES: 54 ARITHMETIC MEAN VALUE: 0.476 MEDIAN: 0.485 STANDARD DEVIATION: 0.042 REL. ST. DEVIATION (%): 8.746</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>136</td><td>0.868</td><td>UNUSED</td><td>3</td><td>0.481</td></tr> <tr><td>32</td><td>0.580</td><td></td><td>4</td><td>0.481</td></tr> <tr><td>116</td><td>0.560</td><td></td><td>31</td><td>0.481</td></tr> <tr><td>40</td><td>0.541</td><td></td><td>24</td><td>0.480</td></tr> <tr><td>135</td><td>0.534</td><td></td><td>112</td><td>0.480</td></tr> <tr><td>110</td><td>0.520</td><td></td><td>114</td><td>0.480</td></tr> <tr><td>118</td><td>0.520</td><td></td><td>130</td><td>0.480</td></tr> <tr><td>34</td><td>0.517</td><td></td><td>19</td><td>0.476</td></tr> <tr><td>36</td><td>0.508</td><td></td><td>20</td><td>0.472</td></tr> <tr><td>5</td><td>0.505</td><td></td><td>14</td><td>0.464</td></tr> <tr><td>27</td><td>0.503</td><td></td><td>1</td><td>0.460</td></tr> <tr><td>7</td><td>0.500</td><td></td><td>119</td><td>0.460</td></tr> <tr><td>39</td><td>0.500</td><td></td><td>140</td><td>0.450</td></tr> <tr><td>115</td><td>0.500</td><td></td><td>35</td><td>0.447</td></tr> <tr><td>6</td><td>0.498</td><td></td><td>23</td><td>0.440</td></tr> <tr><td>13</td><td>0.498</td><td></td><td>109</td><td>0.440</td></tr> <tr><td>121</td><td>0.498</td><td></td><td>131</td><td>0.438</td></tr> <tr><td>8</td><td>0.496</td><td></td><td>11</td><td>0.432</td></tr> <tr><td>26</td><td>0.496</td><td></td><td>113</td><td>0.430</td></tr> <tr><td>37</td><td>0.495</td><td></td><td>38</td><td>0.426</td></tr> <tr><td>21</td><td>0.493</td><td></td><td>10</td><td>0.420</td></tr> <tr><td>33</td><td>0.492</td><td></td><td>126</td><td>0.420</td></tr> <tr><td>12</td><td>0.490</td><td></td><td>138</td><td>0.420</td></tr> <tr><td>16</td><td>0.490</td><td></td><td>17</td><td>0.410</td></tr> <tr><td>104</td><td>0.490</td><td></td><td>107</td><td>0.386</td></tr> <tr><td>105</td><td>0.490</td><td></td><td>22</td><td>0.385</td></tr> <tr><td>133</td><td>0.490</td><td></td><td>120</td><td>0.380</td></tr> <tr><td>15</td><td>0.489</td><td></td><td></td><td>UNUSED</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	136	0.868	UNUSED	3	0.481	32	0.580		4	0.481	116	0.560		31	0.481	40	0.541		24	0.480	135	0.534		112	0.480	110	0.520		114	0.480	118	0.520		130	0.480	34	0.517		19	0.476	36	0.508		20	0.472	5	0.505		14	0.464	27	0.503		1	0.460	7	0.500		119	0.460	39	0.500		140	0.450	115	0.500		35	0.447	6	0.498		23	0.440	13	0.498		109	0.440	121	0.498		131	0.438	8	0.496		11	0.432	26	0.496		113	0.430	37	0.495		38	0.426	21	0.493		10	0.420	33	0.492		126	0.420	12	0.490		138	0.420	16	0.490		17	0.410	104	0.490		107	0.386	105	0.490		22	0.385	133	0.490		120	0.380	15	0.489			UNUSED
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<p>SODIUM SAMPLE NO.: G3 THEORETICAL VALUE 0.636 UNIT: µg Na/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 55 ARITHMETIC MEAN VALUE: 0.606 MEDIAN: 0.616 STANDARD DEVIATION: 0.080 REL. ST. DEVIATION (%): 13.120</p> <p>RUN 2: NUMBER OF LABORATORIES: 53 ARITHMETIC MEAN VALUE: 0.606 MEDIAN: 0.616 STANDARD DEVIATION: 0.049 REL. ST. DEVIATION (%): 8.152</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>136</td><td>0.949</td><td>UNUSED</td><td>31</td><td>0.615</td></tr> <tr><td>4</td><td>0.731</td><td></td><td>112</td><td>0.610</td></tr> <tr><td>40</td><td>0.702</td><td></td><td>119</td><td>0.610</td></tr> <tr><td>110</td><td>0.660</td><td></td><td>130</td><td>0.610</td></tr> <tr><td>34</td><td>0.657</td><td></td><td>3</td><td>0.607</td></tr> <tr><td>114</td><td>0.650</td><td></td><td>24</td><td>0.606</td></tr> <tr><td>20</td><td>0.649</td><td></td><td>19</td><td>0.604</td></tr> <tr><td>36</td><td>0.642</td><td></td><td>1</td><td>0.600</td></tr> <tr><td>13</td><td>0.640</td><td></td><td>115</td><td>0.600</td></tr> <tr><td>32</td><td>0.640</td><td></td><td>140</td><td>0.590</td></tr> <tr><td>118</td><td>0.640</td><td></td><td>14</td><td>0.586</td></tr> <tr><td>5</td><td>0.638</td><td></td><td>23</td><td>0.580</td></tr> <tr><td>15</td><td>0.638</td><td></td><td>126</td><td>0.580</td></tr> <tr><td>27</td><td>0.638</td><td></td><td>131</td><td>0.579</td></tr> <tr><td>7</td><td>0.636</td><td></td><td>38</td><td>0.578</td></tr> <tr><td>33</td><td>0.632</td><td></td><td>104</td><td>0.570</td></tr> <tr><td>39</td><td>0.632</td><td></td><td>109</td><td>0.568</td></tr> <tr><td>121</td><td>0.632</td><td></td><td>35</td><td>0.565</td></tr> <tr><td>26</td><td>0.631</td><td></td><td>11</td><td>0.556</td></tr> <tr><td>6</td><td>0.630</td><td></td><td>113</td><td>0.550</td></tr> <tr><td>8</td><td>0.630</td><td></td><td>138</td><td>0.540</td></tr> <tr><td>12</td><td>0.630</td><td></td><td>10</td><td>0.510</td></tr> <tr><td>105</td><td>0.630</td><td></td><td>120</td><td>0.510</td></tr> <tr><td>37</td><td>0.627</td><td></td><td>17</td><td>0.505</td></tr> <tr><td>21</td><td>0.624</td><td></td><td>107</td><td>0.498</td></tr> <tr><td>16</td><td>0.620</td><td></td><td>22</td><td>0.467</td></tr> <tr><td>133</td><td>0.620</td><td></td><td>135</td><td>0.294</td></tr> <tr><td>116</td><td>0.616</td><td></td><td></td><td>UNUSED</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	136	0.949	UNUSED	31	0.615	4	0.731		112	0.610	40	0.702		119	0.610	110	0.660		130	0.610	34	0.657		3	0.607	114	0.650		24	0.606	20	0.649		19	0.604	36	0.642		1	0.600	13	0.640		115	0.600	32	0.640		140	0.590	118	0.640		14	0.586	5	0.638		23	0.580	15	0.638		126	0.580	27	0.638		131	0.579	7	0.636		38	0.578	33	0.632		104	0.570	39	0.632		109	0.568	121	0.632		35	0.565	26	0.631		11	0.556	6	0.630		113	0.550	8	0.630		138	0.540	12	0.630		10	0.510	105	0.630		120	0.510	37	0.627		17	0.505	21	0.624		107	0.498	16	0.620		22	0.467	133	0.620		135	0.294	116	0.616			UNUSED	<p>SODIUM SAMPLE NO.: G4 THEORETICAL VALUE 0.872 UNIT: µg Na/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 55 ARITHMETIC MEAN VALUE: 0.845 MEDIAN: 0.850 STANDARD DEVIATION: 0.089 REL. ST. DEVIATION (%): 10.483</p> <p>RUN 2: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 0.837 MEDIAN: 0.847 STANDARD DEVIATION: 0.058 REL. ST. DEVIATION (%): 6.957</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>121</td><td>1.210</td><td>UNUSED</td><td>19</td><td>0.843</td></tr> <tr><td>136</td><td>1.106</td><td>UNUSED</td><td>3</td><td>0.842</td></tr> <tr><td>32</td><td>1.000</td><td></td><td>4</td><td>0.841</td></tr> <tr><td>135</td><td>0.981</td><td></td><td>112</td><td>0.840</td></tr> <tr><td>37</td><td>0.921</td><td></td><td>119</td><td>0.840</td></tr> <tr><td>115</td><td>0.900</td><td></td><td>130</td><td>0.840</td></tr> <tr><td>36</td><td>0.888</td><td></td><td>24</td><td>0.838</td></tr> <tr><td>13</td><td>0.883</td><td></td><td>31</td><td>0.838</td></tr> <tr><td>5</td><td>0.880</td><td></td><td>23</td><td>0.822</td></tr> <tr><td>110</td><td>0.880</td><td></td><td>104</td><td>0.820</td></tr> <tr><td>7</td><td>0.873</td><td></td><td>109</td><td>0.817</td></tr> <tr><td>26</td><td>0.871</td><td></td><td>140</td><td>0.810</td></tr> <tr><td>27</td><td>0.870</td><td></td><td>14</td><td>0.807</td></tr> <tr><td>33</td><td>0.870</td><td></td><td>1</td><td>0.800</td></tr> <tr><td>8</td><td>0.869</td><td></td><td>38</td><td>0.800</td></tr> <tr><td>15</td><td>0.868</td><td></td><td>133</td><td>0.800</td></tr> <tr><td>39</td><td>0.865</td><td></td><td>35</td><td>0.799</td></tr> <tr><td>6</td><td>0.862</td><td></td><td>126</td><td>0.790</td></tr> <tr><td>12</td><td>0.860</td><td></td><td>113</td><td>0.780</td></tr> <tr><td>34</td><td>0.860</td><td></td><td>11</td><td>0.775</td></tr> <tr><td>105</td><td>0.860</td><td></td><td>131</td><td>0.750</td></tr> <tr><td>114</td><td>0.860</td><td></td><td>17</td><td>0.744</td></tr> <tr><td>20</td><td>0.857</td><td></td><td>10</td><td>0.740</td></tr> <tr><td>21</td><td>0.853</td><td></td><td>138</td><td>0.730</td></tr> <tr><td>116</td><td>0.853</td><td></td><td>107</td><td>0.701</td></tr> <tr><td>16</td><td>0.850</td><td></td><td>120</td><td>0.690</td></tr> <tr><td>40</td><td>0.850</td><td></td><td>22</td><td>0.630</td></tr> <tr><td>118</td><td>0.850</td><td></td><td></td><td>UNUSED</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	121	1.210	UNUSED	19	0.843	136	1.106	UNUSED	3	0.842	32	1.000		4	0.841	135	0.981		112	0.840	37	0.921		119	0.840	115	0.900		130	0.840	36	0.888		24	0.838	13	0.883		31	0.838	5	0.880		23	0.822	110	0.880		104	0.820	7	0.873		109	0.817	26	0.871		140	0.810	27	0.870		14	0.807	33	0.870		1	0.800	8	0.869		38	0.800	15	0.868		133	0.800	39	0.865		35	0.799	6	0.862		126	0.790	12	0.860		113	0.780	34	0.860		11	0.775	105	0.860		131	0.750	114	0.860		17	0.744	20	0.857		10	0.740	21	0.853		138	0.730	116	0.853		107	0.701	16	0.850		120	0.690	40	0.850		22	0.630	118	0.850			UNUSED
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15	0.868		133	0.800																																																																																																																																																																																																																																																																																					
39	0.865		35	0.799																																																																																																																																																																																																																																																																																					
6	0.862		126	0.790																																																																																																																																																																																																																																																																																					
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118	0.850			UNUSED																																																																																																																																																																																																																																																																																					

Table 26: Analytical results for magnesium in precipitations samples.

<p>MAGNESIUM SAMPLE NO.: G1 THEORETICAL VALUE 0.139 UNIT: µg Mg/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 54 ARITHMETIC MEAN VALUE: 0.147 MEDIAN: 0.136 STANDARD DEVIATION: 0.099 REL. ST. DEVIATION (%): 67.037</p> <p>RUN 2: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 0.134 MEDIAN: 0.136 STANDARD DEVIATION: 0.018 REL. ST. DEVIATION (%): 13.100</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>136</td><td>0.840</td><td>UNUSED</td><td>23</td><td>0.136</td></tr> <tr><td>133</td><td>0.191</td><td></td><td>27</td><td>0.136</td></tr> <tr><td>113</td><td>0.160</td><td></td><td>107</td><td>0.135</td></tr> <tr><td>20</td><td>0.155</td><td></td><td>131</td><td>0.135</td></tr> <tr><td>116</td><td>0.155</td><td></td><td>36</td><td>0.134</td></tr> <tr><td>138</td><td>0.150</td><td></td><td>11</td><td>0.133</td></tr> <tr><td>119</td><td>< 0.15</td><td></td><td></td><td></td></tr> <tr><td>15</td><td>0.146</td><td></td><td>109</td><td>0.133</td></tr> <tr><td>13</td><td>0.144</td><td></td><td>40</td><td>0.132</td></tr> <tr><td>5</td><td>0.142</td><td></td><td>14</td><td>0.131</td></tr> <tr><td>10</td><td>0.140</td><td></td><td>16</td><td>0.131</td></tr> <tr><td>39</td><td>0.140</td><td></td><td>1</td><td>0.130</td></tr> <tr><td>104</td><td>0.140</td><td></td><td>6</td><td>0.130</td></tr> <tr><td>112</td><td>0.140</td><td></td><td>130</td><td>0.130</td></tr> <tr><td>114</td><td>0.140</td><td></td><td>135</td><td>0.130</td></tr> <tr><td>118</td><td>0.140</td><td></td><td>140</td><td>0.130</td></tr> <tr><td>120</td><td>0.140</td><td></td><td>7</td><td>0.129</td></tr> <tr><td>126</td><td>0.140</td><td></td><td>22</td><td>0.128</td></tr> <tr><td>8</td><td>0.139</td><td></td><td>121</td><td>0.126</td></tr> <tr><td>17</td><td>0.139</td><td></td><td>4</td><td>0.125</td></tr> <tr><td>21</td><td>0.139</td><td></td><td>105</td><td>0.120</td></tr> <tr><td>26</td><td>0.139</td><td></td><td>110</td><td>0.120</td></tr> <tr><td>31</td><td>0.139</td><td></td><td>38</td><td>0.111</td></tr> <tr><td>33</td><td>0.139</td><td></td><td>37</td><td>0.101</td></tr> <tr><td>34</td><td>0.139</td><td></td><td>115</td><td>0.100</td></tr> <tr><td>12</td><td>0.138</td><td></td><td>24</td><td>0.090</td></tr> <tr><td>19</td><td>0.138</td><td></td><td>35</td><td>0.068</td></tr> <tr><td>3</td><td>0.136</td><td></td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	136	0.840	UNUSED	23	0.136	133	0.191		27	0.136	113	0.160		107	0.135	20	0.155		131	0.135	116	0.155		36	0.134	138	0.150		11	0.133	119	< 0.15				15	0.146		109	0.133	13	0.144		40	0.132	5	0.142		14	0.131	10	0.140		16	0.131	39	0.140		1	0.130	104	0.140		6	0.130	112	0.140		130	0.130	114	0.140		135	0.130	118	0.140		140	0.130	120	0.140		7	0.129	126	0.140		22	0.128	8	0.139		121	0.126	17	0.139		4	0.125	21	0.139		105	0.120	26	0.139		110	0.120	31	0.139		38	0.111	33	0.139		37	0.101	34	0.139		115	0.100	12	0.138		24	0.090	19	0.138		35	0.068	3	0.136				<p>MAGNESIUM SAMPLE NO.: G2 THEORETICAL VALUE 0.085 UNIT: µg Mg/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 54 ARITHMETIC MEAN VALUE: 0.099 MEDIAN: 0.084 STANDARD DEVIATION: 0.111 REL. ST. DEVIATION (%): 111.684</p> <p>RUN 2: NUMBER OF LABORATORIES: 51 ARITHMETIC MEAN VALUE: 0.084 MEDIAN: 0.084 STANDARD DEVIATION: 0.016 REL. ST. DEVIATION (%): 18.684</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>136</td><td>0.875</td><td>UNUSED</td><td>12</td><td>0.084</td></tr> <tr><td>119</td><td>< 0.15</td><td></td><td></td><td></td></tr> <tr><td>133</td><td>0.139</td><td></td><td>16</td><td>0.084</td></tr> <tr><td>116</td><td>0.135</td><td></td><td>27</td><td>0.084</td></tr> <tr><td>20</td><td>0.102</td><td></td><td>17</td><td>0.083</td></tr> <tr><td>115</td><td>< 0.1</td><td></td><td></td><td></td></tr> <tr><td>126</td><td>0.100</td><td></td><td>11</td><td>0.082</td></tr> <tr><td>135</td><td>0.100</td><td></td><td>23</td><td>0.082</td></tr> <tr><td>40</td><td>0.096</td><td></td><td>109</td><td>0.082</td></tr> <tr><td>107</td><td>0.091</td><td></td><td>36</td><td>0.081</td></tr> <tr><td>10</td><td>0.090</td><td></td><td>131</td><td>0.081</td></tr> <tr><td>15</td><td>0.090</td><td></td><td>1</td><td>0.080</td></tr> <tr><td>104</td><td>0.090</td><td></td><td>112</td><td>0.080</td></tr> <tr><td>113</td><td>0.090</td><td></td><td>114</td><td>0.080</td></tr> <tr><td>120</td><td>0.090</td><td></td><td>130</td><td>0.080</td></tr> <tr><td>138</td><td>0.090</td><td></td><td>140</td><td>0.080</td></tr> <tr><td>118</td><td>0.089</td><td></td><td>14</td><td>0.078</td></tr> <tr><td>5</td><td>0.088</td><td></td><td>22</td><td>0.078</td></tr> <tr><td>13</td><td>0.088</td><td></td><td>4</td><td>0.076</td></tr> <tr><td>26</td><td>0.087</td><td></td><td>6</td><td>0.075</td></tr> <tr><td>39</td><td>0.087</td><td></td><td>105</td><td>0.070</td></tr> <tr><td>8</td><td>0.086</td><td></td><td>121</td><td>0.069</td></tr> <tr><td>21</td><td>0.086</td><td></td><td>38</td><td>0.068</td></tr> <tr><td>34</td><td>0.086</td><td></td><td>24</td><td>0.066</td></tr> <tr><td>3</td><td>0.085</td><td></td><td>37</td><td>0.066</td></tr> <tr><td>19</td><td>0.085</td><td></td><td>7</td><td>0.061</td></tr> <tr><td>31</td><td>0.085</td><td></td><td>110</td><td>0.060</td></tr> <tr><td>33</td><td>0.085</td><td></td><td>35</td><td>0.033</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	136	0.875	UNUSED	12	0.084	119	< 0.15				133	0.139		16	0.084	116	0.135		27	0.084	20	0.102		17	0.083	115	< 0.1				126	0.100		11	0.082	135	0.100		23	0.082	40	0.096		109	0.082	107	0.091		36	0.081	10	0.090		131	0.081	15	0.090		1	0.080	104	0.090		112	0.080	113	0.090		114	0.080	120	0.090		130	0.080	138	0.090		140	0.080	118	0.089		14	0.078	5	0.088		22	0.078	13	0.088		4	0.076	26	0.087		6	0.075	39	0.087		105	0.070	8	0.086		121	0.069	21	0.086		38	0.068	34	0.086		24	0.066	3	0.085		37	0.066	19	0.085		7	0.061	31	0.085		110	0.060	33	0.085		35	0.033
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<p>MAGNESIUM SAMPLE NO.: G3 THEORETICAL VALUE 0.101 UNIT: µg Mg/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 54 ARITHMETIC MEAN VALUE: 0.109 MEDIAN: 0.100 STANDARD DEVIATION: 0.093 REL. ST. DEVIATION (%): 85.531</p> <p>RUN 2: NUMBER OF LABORATORIES: 51 ARITHMETIC MEAN VALUE: 0.096 MEDIAN: 0.099 STANDARD DEVIATION: 0.014 REL. ST. DEVIATION (%): 14.384</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>136</td><td>0.762</td><td>UNUSED</td><td>3</td><td>0.099</td></tr> <tr><td>119</td><td>< 0.15</td><td></td><td></td><td></td></tr> <tr><td>133</td><td>0.142</td><td></td><td>12</td><td>0.099</td></tr> <tr><td>20</td><td>0.116</td><td></td><td>27</td><td>0.098</td></tr> <tr><td>113</td><td>0.110</td><td></td><td>36</td><td>0.098</td></tr> <tr><td>126</td><td>0.110</td><td></td><td>11</td><td>0.096</td></tr> <tr><td>138</td><td>0.110</td><td></td><td>23</td><td>0.096</td></tr> <tr><td>115</td><td>< 0.1</td><td></td><td></td><td></td></tr> <tr><td>40</td><td>0.109</td><td></td><td>109</td><td>0.096</td></tr> <tr><td>15</td><td>0.108</td><td></td><td>131</td><td>0.096</td></tr> <tr><td>13</td><td>0.105</td><td></td><td>17</td><td>0.095</td></tr> <tr><td>34</td><td>0.105</td><td></td><td>16</td><td>0.094</td></tr> <tr><td>107</td><td>0.104</td><td></td><td>22</td><td>0.093</td></tr> <tr><td>5</td><td>0.103</td><td></td><td>14</td><td>0.092</td></tr> <tr><td>8</td><td>0.102</td><td></td><td>6</td><td>0.091</td></tr> <tr><td>33</td><td>0.102</td><td></td><td>135</td><td>0.091</td></tr> <tr><td>39</td><td>0.102</td><td></td><td>1</td><td>0.090</td></tr> <tr><td>118</td><td>0.102</td><td></td><td>7</td><td>0.090</td></tr> <tr><td>19</td><td>0.101</td><td></td><td>130</td><td>0.090</td></tr> <tr><td>26</td><td>0.101</td><td></td><td>4</td><td>0.089</td></tr> <tr><td>31</td><td>0.101</td><td></td><td>121</td><td>0.085</td></tr> <tr><td>10</td><td>0.100</td><td></td><td>38</td><td>0.080</td></tr> <tr><td>21</td><td>0.100</td><td></td><td>105</td><td>0.080</td></tr> <tr><td>104</td><td>0.100</td><td></td><td>110</td><td>0.080</td></tr> <tr><td>112</td><td>0.100</td><td></td><td>37</td><td>0.075</td></tr> <tr><td>114</td><td>0.100</td><td></td><td>116</td><td>0.075</td></tr> <tr><td>120</td><td>0.100</td><td></td><td>24</td><td>0.067</td></tr> <tr><td>140</td><td>0.100</td><td></td><td>35</td><td>0.044</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	136	0.762	UNUSED	3	0.099	119	< 0.15				133	0.142		12	0.099	20	0.116		27	0.098	113	0.110		36	0.098	126	0.110		11	0.096	138	0.110		23	0.096	115	< 0.1				40	0.109		109	0.096	15	0.108		131	0.096	13	0.105		17	0.095	34	0.105		16	0.094	107	0.104		22	0.093	5	0.103		14	0.092	8	0.102		6	0.091	33	0.102		135	0.091	39	0.102		1	0.090	118	0.102		7	0.090	19	0.101		130	0.090	26	0.101		4	0.089	31	0.101		121	0.085	10	0.100		38	0.080	21	0.100		105	0.080	104	0.100		110	0.080	112	0.100		37	0.075	114	0.100		116	0.075	120	0.100		24	0.067	140	0.100		35	0.044	<p>MAGNESIUM SAMPLE NO.: G4 THEORETICAL VALUE 0.124 UNIT: µg Mg/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 54 ARITHMETIC MEAN VALUE: 0.128 MEDIAN: 0.121 STANDARD DEVIATION: 0.070 REL. ST. DEVIATION (%): 54.813</p> <p>RUN 2: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 0.119 MEDIAN: 0.120 STANDARD DEVIATION: 0.016 REL. ST. DEVIATION (%): 13.862</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>136</td><td>0.616</td><td>UNUSED</td><td>10</td><td>0.120</td></tr> <tr><td>133</td><td>0.186</td><td></td><td>104</td><td>0.120</td></tr> <tr><td>119</td><td>< 0.15</td><td></td><td></td><td></td></tr> <tr><td>138</td><td>0.140</td><td></td><td>112</td><td>0.120</td></tr> <tr><td>135</td><td>0.136</td><td></td><td>113</td><td>0.120</td></tr> <tr><td>20</td><td>0.132</td><td></td><td>114</td><td>0.120</td></tr> <tr><td>13</td><td>0.131</td><td></td><td>120</td><td>0.120</td></tr> <tr><td>15</td><td>0.130</td><td></td><td>130</td><td>0.120</td></tr> <tr><td>126</td><td>0.130</td><td></td><td>140</td><td>0.120</td></tr> <tr><td>31</td><td>0.127</td><td></td><td>11</td><td>0.118</td></tr> <tr><td>5</td><td>0.126</td><td></td><td>22</td><td>0.118</td></tr> <tr><td>8</td><td>0.126</td><td></td><td>109</td><td>0.118</td></tr> <tr><td>34</td><td>0.126</td><td></td><td>7</td><td>0.117</td></tr> <tr><td>118</td><td>0.125</td><td></td><td>14</td><td>0.117</td></tr> <tr><td>19</td><td>0.124</td><td></td><td>16</td><td>0.117</td></tr> <tr><td>21</td><td>0.124</td><td></td><td>6</td><td>0.115</td></tr> <tr><td>26</td><td>0.124</td><td></td><td>40</td><td>0.112</td></tr> <tr><td>39</td><td>0.124</td><td></td><td>1</td><td>0.110</td></tr> <tr><td>107</td><td>0.124</td><td></td><td>4</td><td>0.110</td></tr> <tr><td>12</td><td>0.123</td><td></td><td>38</td><td>0.100</td></tr> <tr><td>3</td><td>0.122</td><td></td><td>105</td><td>0.100</td></tr> <tr><td>17</td><td>0.122</td><td></td><td>110</td><td>0.100</td></tr> <tr><td>33</td><td>0.122</td><td></td><td>115</td><td>0.100</td></tr> <tr><td>36</td><td>0.122</td><td></td><td>116</td><td>0.097</td></tr> <tr><td>121</td><td>0.122</td><td></td><td>37</td><td>0.090</td></tr> <tr><td>23</td><td>0.121</td><td></td><td>24</td><td>0.081</td></tr> <tr><td>27</td><td>0.121</td><td></td><td>35</td><td>0.063</td></tr> <tr><td>131</td><td>0.121</td><td></td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	136	0.616	UNUSED	10	0.120	133	0.186		104	0.120	119	< 0.15				138	0.140		112	0.120	135	0.136		113	0.120	20	0.132		114	0.120	13	0.131		120	0.120	15	0.130		130	0.120	126	0.130		140	0.120	31	0.127		11	0.118	5	0.126		22	0.118	8	0.126		109	0.118	34	0.126		7	0.117	118	0.125		14	0.117	19	0.124		16	0.117	21	0.124		6	0.115	26	0.124		40	0.112	39	0.124		1	0.110	107	0.124		4	0.110	12	0.123		38	0.100	3	0.122		105	0.100	17	0.122		110	0.100	33	0.122		115	0.100	36	0.122		116	0.097	121	0.122		37	0.090	23	0.121		24	0.081	27	0.121		35	0.063	131	0.121			
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Table 27: Analytical results for calcium in precipitations samples.

<p>CALCIUM SAMPLE NO.: G1 THEORETICAL VALUE 0.335 UNIT: µg Ca/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 55 ARITHMETIC MEAN VALUE: 0.371 MEDIAN: 0.338 STANDARD DEVIATION: 0.244 REL. ST. DEVIATION (%): 65.887</p> <p>RUN 2: NUMBER OF LABORATORIES: 54 ARITHMETIC MEAN VALUE: 0.340 MEDIAN: 0.338 STANDARD DEVIATION: 0.085 REL. ST. DEVIATION (%): 25.073</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>136</td><td>2.039</td><td>UNUSED</td><td>36</td><td>0.338</td></tr> <tr><td>116</td><td>0.794</td><td></td><td>19</td><td>0.337</td></tr> <tr><td>133</td><td>0.498</td><td></td><td>16</td><td>0.334</td></tr> <tr><td>121</td><td>0.437</td><td></td><td>6</td><td>0.333</td></tr> <tr><td>118</td><td>0.430</td><td></td><td>4</td><td>0.330</td></tr> <tr><td>10</td><td>0.400</td><td></td><td>38</td><td>0.325</td></tr> <tr><td>104</td><td>0.400</td><td></td><td>27</td><td>0.324</td></tr> <tr><td>105</td><td>0.400</td><td></td><td>8</td><td>0.320</td></tr> <tr><td>114</td><td>0.400</td><td></td><td>12</td><td>0.320</td></tr> <tr><td>140</td><td>0.400</td><td></td><td>11</td><td>0.316</td></tr> <tr><td>113</td><td>0.380</td><td></td><td>7</td><td>0.313</td></tr> <tr><td>34</td><td>0.364</td><td></td><td>107</td><td>0.312</td></tr> <tr><td>5</td><td>0.361</td><td></td><td>1</td><td>0.310</td></tr> <tr><td>40</td><td>0.360</td><td></td><td>126</td><td>0.310</td></tr> <tr><td>138</td><td>0.360</td><td></td><td>14</td><td>0.305</td></tr> <tr><td>20</td><td>0.356</td><td></td><td>115</td><td>0.300</td></tr> <tr><td>112</td><td>0.350</td><td></td><td>120</td><td>0.300</td></tr> <tr><td>15</td><td>0.347</td><td></td><td>130</td><td>0.300</td></tr> <tr><td>31</td><td>0.347</td><td></td><td>22</td><td>0.280</td></tr> <tr><td>13</td><td>0.346</td><td></td><td>17</td><td>0.279</td></tr> <tr><td>23</td><td>0.343</td><td></td><td>37</td><td>0.276</td></tr> <tr><td>33</td><td>0.342</td><td></td><td>119</td><td>0.260</td></tr> <tr><td>3</td><td>0.341</td><td></td><td>135</td><td>0.256</td></tr> <tr><td>21</td><td>0.341</td><td></td><td>131</td><td>0.238</td></tr> <tr><td>109</td><td>0.341</td><td></td><td>24</td><td>0.211</td></tr> <tr><td>110</td><td>0.340</td><td></td><td>32</td><td>0.188</td></tr> <tr><td>39</td><td>0.339</td><td></td><td>35</td><td>0.174</td></tr> <tr><td>26</td><td>0.338</td><td></td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	136	2.039	UNUSED	36	0.338	116	0.794		19	0.337	133	0.498		16	0.334	121	0.437		6	0.333	118	0.430		4	0.330	10	0.400		38	0.325	104	0.400		27	0.324	105	0.400		8	0.320	114	0.400		12	0.320	140	0.400		11	0.316	113	0.380		7	0.313	34	0.364		107	0.312	5	0.361		1	0.310	40	0.360		126	0.310	138	0.360		14	0.305	20	0.356		115	0.300	112	0.350		120	0.300	15	0.347		130	0.300	31	0.347		22	0.280	13	0.346		17	0.279	23	0.343		37	0.276	33	0.342		119	0.260	3	0.341		135	0.256	21	0.341		131	0.238	109	0.341		24	0.211	110	0.340		32	0.188	39	0.339		35	0.174	26	0.338				<p>CALCIUM SAMPLE NO.: G2 THEORETICAL VALUE 0.239 UNIT: µg Ca/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 55 ARITHMETIC MEAN VALUE: 0.285 MEDIAN: 0.240 STANDARD DEVIATION: 0.305 REL. ST. DEVIATION (%): 107.171</p> <p>RUN 2: NUMBER OF LABORATORIES: 54 ARITHMETIC MEAN VALUE: 0.245 MEDIAN: 0.240 STANDARD DEVIATION: 0.092 REL. ST. DEVIATION (%): 37.445</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>136</td><td>2.404</td><td>UNUSED</td><td>112</td><td>0.240</td></tr> <tr><td>116</td><td>0.800</td><td></td><td>140</td><td>0.240</td></tr> <tr><td>133</td><td>0.431</td><td></td><td>23</td><td>0.237</td></tr> <tr><td>105</td><td>0.330</td><td></td><td>34</td><td>0.237</td></tr> <tr><td>121</td><td>0.327</td><td></td><td>8</td><td>0.235</td></tr> <tr><td>104</td><td>0.320</td><td></td><td>12</td><td>0.230</td></tr> <tr><td>118</td><td>0.280</td><td></td><td>27</td><td>0.230</td></tr> <tr><td>10</td><td>0.270</td><td></td><td>38</td><td>0.230</td></tr> <tr><td>138</td><td>0.270</td><td></td><td>11</td><td>0.226</td></tr> <tr><td>40</td><td>0.265</td><td></td><td>14</td><td>0.220</td></tr> <tr><td>110</td><td>0.260</td><td></td><td>113</td><td>0.220</td></tr> <tr><td>5</td><td>0.259</td><td></td><td>120</td><td>0.220</td></tr> <tr><td>20</td><td>0.259</td><td></td><td>107</td><td>0.219</td></tr> <tr><td>31</td><td>0.256</td><td></td><td>7</td><td>0.214</td></tr> <tr><td>15</td><td>0.255</td><td></td><td>1</td><td>0.210</td></tr> <tr><td>21</td><td>0.251</td><td></td><td>126</td><td>0.210</td></tr> <tr><td>114</td><td>0.250</td><td></td><td>130</td><td>0.210</td></tr> <tr><td>6</td><td>0.249</td><td></td><td>22</td><td>0.202</td></tr> <tr><td>19</td><td>0.248</td><td></td><td>115</td><td>0.200</td></tr> <tr><td>4</td><td>0.247</td><td></td><td>119</td><td>0.190</td></tr> <tr><td>109</td><td>0.246</td><td></td><td>17</td><td>0.184</td></tr> <tr><td>16</td><td>0.245</td><td></td><td>37</td><td>0.176</td></tr> <tr><td>13</td><td>0.243</td><td></td><td>24</td><td>0.165</td></tr> <tr><td>36</td><td>0.243</td><td></td><td>131</td><td>0.151</td></tr> <tr><td>3</td><td>0.241</td><td></td><td>135</td><td>0.141</td></tr> <tr><td>33</td><td>0.241</td><td></td><td>32</td><td>0.140</td></tr> <tr><td>39</td><td>0.241</td><td></td><td>35</td><td>0.103</td></tr> <tr><td>26</td><td>0.240</td><td></td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	136	2.404	UNUSED	112	0.240	116	0.800		140	0.240	133	0.431		23	0.237	105	0.330		34	0.237	121	0.327		8	0.235	104	0.320		12	0.230	118	0.280		27	0.230	10	0.270		38	0.230	138	0.270		11	0.226	40	0.265		14	0.220	110	0.260		113	0.220	5	0.259		120	0.220	20	0.259		107	0.219	31	0.256		7	0.214	15	0.255		1	0.210	21	0.251		126	0.210	114	0.250		130	0.210	6	0.249		22	0.202	19	0.248		115	0.200	4	0.247		119	0.190	109	0.246		17	0.184	16	0.245		37	0.176	13	0.243		24	0.165	36	0.243		131	0.151	3	0.241		135	0.141	33	0.241		32	0.140	39	0.241		35	0.103	26	0.240			
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<p>CALCIUM SAMPLE NO.: G3 THEORETICAL VALUE 0.364 UNIT: µg Ca/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 55 ARITHMETIC MEAN VALUE: 0.392 MEDIAN: 0.360 STANDARD DEVIATION: 0.235 REL. ST. DEVIATION (%): 60.024</p> <p>RUN 2: NUMBER OF LABORATORIES: 54 ARITHMETIC MEAN VALUE: 0.361 MEDIAN: 0.360 STANDARD DEVIATION: 0.063 REL. ST. DEVIATION (%): 17.395</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>136</td><td>2.043</td><td>UNUSED</td><td>112</td><td>0.360</td></tr> <tr><td>116</td><td>0.559</td><td></td><td>33</td><td>0.359</td></tr> <tr><td>133</td><td>0.545</td><td></td><td>4</td><td>0.357</td></tr> <tr><td>105</td><td>0.500</td><td></td><td>7</td><td>0.357</td></tr> <tr><td>121</td><td>0.465</td><td></td><td>27</td><td>0.353</td></tr> <tr><td>138</td><td>0.430</td><td></td><td>107</td><td>0.353</td></tr> <tr><td>5</td><td>0.404</td><td></td><td>1</td><td>0.350</td></tr> <tr><td>34</td><td>0.394</td><td></td><td>11</td><td>0.350</td></tr> <tr><td>10</td><td>0.390</td><td></td><td>104</td><td>0.350</td></tr> <tr><td>40</td><td>0.390</td><td></td><td>23</td><td>0.349</td></tr> <tr><td>15</td><td>0.388</td><td></td><td>14</td><td>0.341</td></tr> <tr><td>13</td><td>0.382</td><td></td><td>12</td><td>0.340</td></tr> <tr><td>110</td><td>0.380</td><td></td><td>120</td><td>0.340</td></tr> <tr><td>114</td><td>0.380</td><td></td><td>126</td><td>0.340</td></tr> <tr><td>118</td><td>0.380</td><td></td><td>38</td><td>0.331</td></tr> <tr><td>37</td><td>0.379</td><td></td><td>113</td><td>0.330</td></tr> <tr><td>3</td><td>0.378</td><td></td><td>130</td><td>0.330</td></tr> <tr><td>39</td><td>0.376</td><td></td><td>140</td><td>0.330</td></tr> <tr><td>109</td><td>0.376</td><td></td><td>22</td><td>0.323</td></tr> <tr><td>6</td><td>0.373</td><td></td><td>119</td><td>0.320</td></tr> <tr><td>31</td><td>0.373</td><td></td><td>17</td><td>0.303</td></tr> <tr><td>21</td><td>0.372</td><td></td><td>115</td><td>0.300</td></tr> <tr><td>8</td><td>0.370</td><td></td><td>135</td><td>0.299</td></tr> <tr><td>20</td><td>0.370</td><td></td><td>131</td><td>0.285</td></tr> <tr><td>26</td><td>0.370</td><td></td><td>35</td><td>0.225</td></tr> <tr><td>19</td><td>0.367</td><td></td><td>24</td><td>0.212</td></tr> <tr><td>36</td><td>0.367</td><td></td><td>32</td><td>0.200</td></tr> <tr><td>16</td><td>0.360</td><td></td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	136	2.043	UNUSED	112	0.360	116	0.559		33	0.359	133	0.545		4	0.357	105	0.500		7	0.357	121	0.465		27	0.353	138	0.430		107	0.353	5	0.404		1	0.350	34	0.394		11	0.350	10	0.390		104	0.350	40	0.390		23	0.349	15	0.388		14	0.341	13	0.382		12	0.340	110	0.380		120	0.340	114	0.380		126	0.340	118	0.380		38	0.331	37	0.379		113	0.330	3	0.378		130	0.330	39	0.376		140	0.330	109	0.376		22	0.323	6	0.373		119	0.320	31	0.373		17	0.303	21	0.372		115	0.300	8	0.370		135	0.299	20	0.370		131	0.285	26	0.370		35	0.225	19	0.367		24	0.212	36	0.367		32	0.200	16	0.360				<p>CALCIUM SAMPLE NO.: G4 THEORETICAL VALUE 0.259 UNIT: µg Ca/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 55 ARITHMETIC MEAN VALUE: 0.285 MEDIAN: 0.260 STANDARD DEVIATION: 0.197 REL. ST. DEVIATION (%): 69.038</p> <p>RUN 2: NUMBER OF LABORATORIES: 54 ARITHMETIC MEAN VALUE: 0.260 MEDIAN: 0.258 STANDARD DEVIATION: 0.061 REL. ST. DEVIATION (%): 23.605</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>136</td><td>1.646</td><td>UNUSED</td><td>4</td><td>0.257</td></tr> <tr><td>116</td><td>0.518</td><td></td><td>16</td><td>0.255</td></tr> <tr><td>133</td><td>0.473</td><td></td><td>33</td><td>0.255</td></tr> <tr><td>105</td><td>0.350</td><td></td><td>8</td><td>0.253</td></tr> <tr><td>121</td><td>0.350</td><td></td><td>31</td><td>0.253</td></tr> <tr><td>138</td><td>0.310</td><td></td><td>27</td><td>0.250</td></tr> <tr><td>118</td><td>0.300</td><td></td><td>23</td><td>0.249</td></tr> <tr><td>13</td><td>0.296</td><td></td><td>107</td><td>0.249</td></tr> <tr><td>40</td><td>0.286</td><td></td><td>11</td><td>0.242</td></tr> <tr><td>15</td><td>0.282</td><td></td><td>7</td><td>0.241</td></tr> <tr><td>34</td><td>0.282</td><td></td><td>12</td><td>0.240</td></tr> <tr><td>104</td><td>0.280</td><td></td><td>14</td><td>0.240</td></tr> <tr><td>6</td><td>0.278</td><td></td><td>126</td><td>0.240</td></tr> <tr><td>5</td><td>0.275</td><td></td><td>38</td><td>0.237</td></tr> <tr><td>21</td><td>0.271</td><td></td><td>120</td><td>0.230</td></tr> <tr><td>10</td><td>0.270</td><td></td><td>130</td><td>0.230</td></tr> <tr><td>114</td><td>0.270</td><td></td><td>1</td><td>0.220</td></tr> <tr><td>140</td><td>0.270</td><td></td><td>119</td><td>0.220</td></tr> <tr><td>109</td><td>0.266</td><td></td><td>37</td><td>0.218</td></tr> <tr><td>20</td><td>0.263</td><td></td><td>22</td><td>0.213</td></tr> <tr><td>19</td><td>0.262</td><td></td><td>115</td><td>0.200</td></tr> <tr><td>39</td><td>0.262</td><td></td><td>131</td><td>0.199</td></tr> <tr><td>3</td><td>0.260</td><td></td><td>17</td><td>0.196</td></tr> <tr><td>26</td><td>0.260</td><td></td><td>32</td><td>0.180</td></tr> <tr><td>36</td><td>0.260</td><td></td><td>135</td><td>0.171</td></tr> <tr><td>110</td><td>0.260</td><td></td><td>24</td><td>0.169</td></tr> <tr><td>112</td><td>0.260</td><td></td><td>35</td><td>0.132</td></tr> <tr><td>113</td><td>0.260</td><td></td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	136	1.646	UNUSED	4	0.257	116	0.518		16	0.255	133	0.473		33	0.255	105	0.350		8	0.253	121	0.350		31	0.253	138	0.310		27	0.250	118	0.300		23	0.249	13	0.296		107	0.249	40	0.286		11	0.242	15	0.282		7	0.241	34	0.282		12	0.240	104	0.280		14	0.240	6	0.278		126	0.240	5	0.275		38	0.237	21	0.271		120	0.230	10	0.270		130	0.230	114	0.270		1	0.220	140	0.270		119	0.220	109	0.266		37	0.218	20	0.263		22	0.213	19	0.262		115	0.200	39	0.262		131	0.199	3	0.260		17	0.196	26	0.260		32	0.180	36	0.260		135	0.171	110	0.260		24	0.169	112	0.260		35	0.132	113	0.260			
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138	0.430		107	0.353																																																																																																																																																																																																																																																																																					
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40	0.390		23	0.349																																																																																																																																																																																																																																																																																					
15	0.388		14	0.341																																																																																																																																																																																																																																																																																					
13	0.382		12	0.340																																																																																																																																																																																																																																																																																					
110	0.380		120	0.340																																																																																																																																																																																																																																																																																					
114	0.380		126	0.340																																																																																																																																																																																																																																																																																					
118	0.380		38	0.331																																																																																																																																																																																																																																																																																					
37	0.379		113	0.330																																																																																																																																																																																																																																																																																					
3	0.378		130	0.330																																																																																																																																																																																																																																																																																					
39	0.376		140	0.330																																																																																																																																																																																																																																																																																					
109	0.376		22	0.323																																																																																																																																																																																																																																																																																					
6	0.373		119	0.320																																																																																																																																																																																																																																																																																					
31	0.373		17	0.303																																																																																																																																																																																																																																																																																					
21	0.372		115	0.300																																																																																																																																																																																																																																																																																					
8	0.370		135	0.299																																																																																																																																																																																																																																																																																					
20	0.370		131	0.285																																																																																																																																																																																																																																																																																					
26	0.370		35	0.225																																																																																																																																																																																																																																																																																					
19	0.367		24	0.212																																																																																																																																																																																																																																																																																					
36	0.367		32	0.200																																																																																																																																																																																																																																																																																					
16	0.360																																																																																																																																																																																																																																																																																								
136	1.646	UNUSED	4	0.257																																																																																																																																																																																																																																																																																					
116	0.518		16	0.255																																																																																																																																																																																																																																																																																					
133	0.473		33	0.255																																																																																																																																																																																																																																																																																					
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138	0.310		27	0.250																																																																																																																																																																																																																																																																																					
118	0.300		23	0.249																																																																																																																																																																																																																																																																																					
13	0.296		107	0.249																																																																																																																																																																																																																																																																																					
40	0.286		11	0.242																																																																																																																																																																																																																																																																																					
15	0.282		7	0.241																																																																																																																																																																																																																																																																																					
34	0.282		12	0.240																																																																																																																																																																																																																																																																																					
104	0.280		14	0.240																																																																																																																																																																																																																																																																																					
6	0.278		126	0.240																																																																																																																																																																																																																																																																																					
5	0.275		38	0.237																																																																																																																																																																																																																																																																																					
21	0.271		120	0.230																																																																																																																																																																																																																																																																																					
10	0.270		130	0.230																																																																																																																																																																																																																																																																																					
114	0.270		1	0.220																																																																																																																																																																																																																																																																																					
140	0.270		119	0.220																																																																																																																																																																																																																																																																																					
109	0.266		37	0.218																																																																																																																																																																																																																																																																																					
20	0.263		22	0.213																																																																																																																																																																																																																																																																																					
19	0.262		115	0.200																																																																																																																																																																																																																																																																																					
39	0.262		131	0.199																																																																																																																																																																																																																																																																																					
3	0.260		17	0.196																																																																																																																																																																																																																																																																																					
26	0.260		32	0.180																																																																																																																																																																																																																																																																																					
36	0.260		135	0.171																																																																																																																																																																																																																																																																																					
110	0.260		24	0.169																																																																																																																																																																																																																																																																																					
112	0.260		35	0.132																																																																																																																																																																																																																																																																																					
113	0.260																																																																																																																																																																																																																																																																																								

Table 28: Analytical results for potassium in precipitations samples.

<p>POTASSIUM SAMPLE NO.: G1 THEORETICAL VALUE 0.255 UNIT: µg K/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 55 ARITHMETIC MEAN VALUE: 0.254 MEDIAN: 0.249 STANDARD DEVIATION: 0.108 REL. ST. DEVIATION (%): 42.657</p> <p>RUN 2: NUMBER OF LABORATORIES: 53 ARITHMETIC MEAN VALUE: 0.239 MEDIAN: 0.249 STANDARD DEVIATION: 0.028 REL. ST. DEVIATION (%): 11.806</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tr><td>136</td><td>1.007</td><td>UNUSED</td><td>24</td><td>0.249</td></tr> <tr><td>115</td><td>0.300</td><td></td><td>36</td><td>0.248</td></tr> <tr><td>118</td><td>0.300</td><td></td><td>33</td><td>0.247</td></tr> <tr><td>20</td><td>0.291</td><td></td><td>35</td><td>0.243</td></tr> <tr><td>114</td><td>0.270</td><td></td><td>12</td><td>0.240</td></tr> <tr><td>109</td><td>0.262</td><td></td><td>110</td><td>0.240</td></tr> <tr><td>32</td><td>0.260</td><td></td><td>130</td><td>0.240</td></tr> <tr><td>3</td><td>0.258</td><td></td><td>133</td><td>0.240</td></tr> <tr><td>14</td><td>0.258</td><td></td><td>138</td><td>0.240</td></tr> <tr><td>31</td><td>0.257</td><td></td><td>21</td><td>0.236</td></tr> <tr><td>5</td><td>0.256</td><td></td><td>23</td><td>0.234</td></tr> <tr><td>8</td><td>0.256</td><td></td><td>4</td><td>0.233</td></tr> <tr><td>15</td><td>0.256</td><td></td><td>10</td><td>0.230</td></tr> <tr><td>26</td><td>0.256</td><td></td><td>104</td><td>0.230</td></tr> <tr><td>13</td><td>0.255</td><td></td><td>113</td><td>0.230</td></tr> <tr><td>121</td><td>0.253</td><td></td><td>38</td><td>0.222</td></tr> <tr><td>39</td><td>0.252</td><td></td><td>140</td><td>0.220</td></tr> <tr><td>7</td><td>0.251</td><td></td><td>131</td><td>0.209</td></tr> <tr><td>27</td><td>0.251</td><td></td><td>34</td><td>0.208</td></tr> <tr><td>135</td><td>0.251</td><td></td><td>22</td><td>0.204</td></tr> <tr><td>16</td><td>0.250</td><td></td><td>1</td><td>0.200</td></tr> <tr><td>19</td><td>0.250</td><td></td><td>37</td><td>0.196</td></tr> <tr><td>105</td><td>0.250</td><td></td><td>40</td><td>0.191</td></tr> <tr><td>112</td><td>0.250</td><td></td><td>119</td><td>0.190</td></tr> <tr><td>116</td><td>0.250</td><td></td><td>107</td><td>0.182</td></tr> <tr><td>126</td><td>0.250</td><td></td><td>120</td><td>0.180</td></tr> <tr><td>6</td><td>0.249</td><td></td><td>11</td><td>0.160</td></tr> <tr><td></td><td></td><td></td><td>17</td><td>< 0.077</td></tr> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	136	1.007	UNUSED	24	0.249	115	0.300		36	0.248	118	0.300		33	0.247	20	0.291		35	0.243	114	0.270		12	0.240	109	0.262		110	0.240	32	0.260		130	0.240	3	0.258		133	0.240	14	0.258		138	0.240	31	0.257		21	0.236	5	0.256		23	0.234	8	0.256		4	0.233	15	0.256		10	0.230	26	0.256		104	0.230	13	0.255		113	0.230	121	0.253		38	0.222	39	0.252		140	0.220	7	0.251		131	0.209	27	0.251		34	0.208	135	0.251		22	0.204	16	0.250		1	0.200	19	0.250		37	0.196	105	0.250		40	0.191	112	0.250		119	0.190	116	0.250		107	0.182	126	0.250		120	0.180	6	0.249		11	0.160				17	< 0.077	<p>POTASSIUM SAMPLE NO.: G2 THEORETICAL VALUE 0.204 UNIT: µg K/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 55 ARITHMETIC MEAN VALUE: 0.196 MEDIAN: 0.200 STANDARD DEVIATION: 0.035 REL. ST. DEVIATION (%): 17.992</p> <p>RUN 2: NUMBER OF LABORATORIES: 51 ARITHMETIC MEAN VALUE: 0.193 MEDIAN: 0.200 STANDARD DEVIATION: 0.023 REL. ST. DEVIATION (%): 11.918</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tr><td>136</td><td>0.342</td><td>UNUSED</td><td>138</td><td>0.200</td></tr> <tr><td>115</td><td>0.300</td><td>UNUSED</td><td>121</td><td>0.199</td></tr> <tr><td>114</td><td>0.240</td><td></td><td>135</td><td>0.197</td></tr> <tr><td>118</td><td>0.230</td><td></td><td>35</td><td>0.196</td></tr> <tr><td>22</td><td>0.226</td><td></td><td>16</td><td>0.195</td></tr> <tr><td>14</td><td>0.223</td><td></td><td>21</td><td>0.194</td></tr> <tr><td>20</td><td>0.222</td><td></td><td>6</td><td>0.191</td></tr> <tr><td>31</td><td>0.215</td><td></td><td>10</td><td>0.190</td></tr> <tr><td>26</td><td>0.213</td><td></td><td>126</td><td>0.190</td></tr> <tr><td>3</td><td>0.211</td><td></td><td>130</td><td>0.190</td></tr> <tr><td>19</td><td>0.210</td><td></td><td>23</td><td>0.188</td></tr> <tr><td>15</td><td>0.208</td><td></td><td>116</td><td>0.188</td></tr> <tr><td>5</td><td>0.207</td><td></td><td>105</td><td>0.180</td></tr> <tr><td>8</td><td>0.207</td><td></td><td>140</td><td>0.180</td></tr> <tr><td>109</td><td>0.207</td><td></td><td>131</td><td>0.176</td></tr> <tr><td>13</td><td>0.206</td><td></td><td>34</td><td>0.175</td></tr> <tr><td>24</td><td>0.206</td><td></td><td>38</td><td>0.174</td></tr> <tr><td>27</td><td>0.206</td><td></td><td>104</td><td>0.170</td></tr> <tr><td>4</td><td>0.203</td><td></td><td>119</td><td>0.170</td></tr> <tr><td>7</td><td>0.203</td><td></td><td>113</td><td>0.160</td></tr> <tr><td>39</td><td>0.203</td><td></td><td>37</td><td>0.157</td></tr> <tr><td>36</td><td>0.201</td><td></td><td>1</td><td>0.150</td></tr> <tr><td>12</td><td>0.200</td><td></td><td>40</td><td>0.149</td></tr> <tr><td>32</td><td>0.200</td><td></td><td>107</td><td>0.146</td></tr> <tr><td>33</td><td>0.200</td><td></td><td>110</td><td>0.140</td></tr> <tr><td>112</td><td>0.200</td><td></td><td>120</td><td>0.140</td></tr> <tr><td>133</td><td>0.200</td><td></td><td>11</td><td>0.113</td></tr> <tr><td></td><td></td><td></td><td></td><td>UNUSED</td></tr> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	136	0.342	UNUSED	138	0.200	115	0.300	UNUSED	121	0.199	114	0.240		135	0.197	118	0.230		35	0.196	22	0.226		16	0.195	14	0.223		21	0.194	20	0.222		6	0.191	31	0.215		10	0.190	26	0.213		126	0.190	3	0.211		130	0.190	19	0.210		23	0.188	15	0.208		116	0.188	5	0.207		105	0.180	8	0.207		140	0.180	109	0.207		131	0.176	13	0.206		34	0.175	24	0.206		38	0.174	27	0.206		104	0.170	4	0.203		119	0.170	7	0.203		113	0.160	39	0.203		37	0.157	36	0.201		1	0.150	12	0.200		40	0.149	32	0.200		107	0.146	33	0.200		110	0.140	112	0.200		120	0.140	133	0.200		11	0.113					UNUSED										
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<p>POTASSIUM SAMPLE NO.: G3 THEORETICAL VALUE 0.306 UNIT: µg K/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 55 ARITHMETIC MEAN VALUE: 0.286 MEDIAN: 0.295 STANDARD DEVIATION: 0.049 REL. ST. DEVIATION (%): 17.224</p> <p>RUN 2: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 0.288 MEDIAN: 0.295 STANDARD DEVIATION: 0.030 REL. ST. DEVIATION (%): 10.262</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tr><td>115</td><td>0.400</td><td>UNUSED</td><td>38</td><td>0.295</td></tr> <tr><td>20</td><td>0.346</td><td></td><td>35</td><td>0.294</td></tr> <tr><td>32</td><td>0.332</td><td></td><td>16</td><td>0.292</td></tr> <tr><td>131</td><td>0.321</td><td></td><td>10</td><td>0.290</td></tr> <tr><td>114</td><td>0.320</td><td></td><td>12</td><td>0.290</td></tr> <tr><td>118</td><td>0.320</td><td></td><td>104</td><td>0.290</td></tr> <tr><td>135</td><td>0.319</td><td></td><td>105</td><td>0.290</td></tr> <tr><td>27</td><td>0.317</td><td></td><td>130</td><td>0.290</td></tr> <tr><td>15</td><td>0.315</td><td></td><td>138</td><td>0.290</td></tr> <tr><td>13</td><td>0.309</td><td></td><td>109</td><td>0.285</td></tr> <tr><td>5</td><td>0.308</td><td></td><td>6</td><td>0.284</td></tr> <tr><td>8</td><td>0.308</td><td></td><td>21</td><td>0.284</td></tr> <tr><td>19</td><td>0.306</td><td></td><td>23</td><td>0.283</td></tr> <tr><td>14</td><td>0.305</td><td></td><td>116</td><td>0.281</td></tr> <tr><td>26</td><td>0.305</td><td></td><td>126</td><td>0.280</td></tr> <tr><td>7</td><td>0.304</td><td></td><td>22</td><td>0.275</td></tr> <tr><td>3</td><td>0.303</td><td></td><td>136</td><td>0.262</td></tr> <tr><td>31</td><td>0.303</td><td></td><td>37</td><td>0.254</td></tr> <tr><td>33</td><td>0.300</td><td></td><td>1</td><td>0.250</td></tr> <tr><td>110</td><td>0.300</td><td></td><td>34</td><td>0.245</td></tr> <tr><td>112</td><td>0.300</td><td></td><td>40</td><td>0.243</td></tr> <tr><td>133</td><td>0.300</td><td></td><td>119</td><td>0.240</td></tr> <tr><td>140</td><td>0.300</td><td></td><td>120</td><td>0.240</td></tr> <tr><td>36</td><td>0.299</td><td></td><td>11</td><td>0.225</td></tr> <tr><td>39</td><td>0.299</td><td></td><td>107</td><td>0.225</td></tr> <tr><td>121</td><td>0.297</td><td></td><td>113</td><td>0.190</td></tr> <tr><td>24</td><td>0.296</td><td></td><td>4</td><td>0.021</td></tr> <tr><td></td><td></td><td></td><td>17</td><td>< 0.077</td></tr> <tr><td></td><td></td><td></td><td></td><td>UNUSED</td></tr> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	115	0.400	UNUSED	38	0.295	20	0.346		35	0.294	32	0.332		16	0.292	131	0.321		10	0.290	114	0.320		12	0.290	118	0.320		104	0.290	135	0.319		105	0.290	27	0.317		130	0.290	15	0.315		138	0.290	13	0.309		109	0.285	5	0.308		6	0.284	8	0.308		21	0.284	19	0.306		23	0.283	14	0.305		116	0.281	26	0.305		126	0.280	7	0.304		22	0.275	3	0.303		136	0.262	31	0.303		37	0.254	33	0.300		1	0.250	110	0.300		34	0.245	112	0.300		40	0.243	133	0.300		119	0.240	140	0.300		120	0.240	36	0.299		11	0.225	39	0.299		107	0.225	121	0.297		113	0.190	24	0.296		4	0.021				17	< 0.077					UNUSED	<p>POTASSIUM SAMPLE NO.: G4 THEORETICAL VALUE 0.153 UNIT: µg K/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 55 ARITHMETIC MEAN VALUE: 0.144 MEDIAN: 0.149 STANDARD DEVIATION: 0.030 REL. ST. DEVIATION (%): 20.702</p> <p>RUN 2: NUMBER OF LABORATORIES: 51 ARITHMETIC MEAN VALUE: 0.144 MEDIAN: 0.149 STANDARD DEVIATION: 0.023 REL. ST. DEVIATION (%): 16.020</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tr><td>136</td><td>0.220</td><td>UNUSED</td><td>7</td><td>0.148</td></tr> <tr><td>115</td><td>0.200</td><td></td><td>36</td><td>0.147</td></tr> <tr><td>114</td><td>0.190</td><td></td><td>116</td><td>0.145</td></tr> <tr><td>22</td><td>0.188</td><td></td><td>33</td><td>0.144</td></tr> <tr><td>20</td><td>0.174</td><td></td><td>21</td><td>0.143</td></tr> <tr><td>121</td><td>0.174</td><td></td><td>35</td><td>0.143</td></tr> <tr><td>118</td><td>0.170</td><td></td><td>16</td><td>0.142</td></tr> <tr><td>109</td><td>0.165</td><td></td><td>6</td><td>0.140</td></tr> <tr><td>14</td><td>0.160</td><td></td><td>10</td><td>0.140</td></tr> <tr><td>26</td><td>0.160</td><td></td><td>12</td><td>0.140</td></tr> <tr><td>32</td><td>0.160</td><td></td><td>140</td><td>0.140</td></tr> <tr><td>138</td><td>0.160</td><td></td><td>23</td><td>0.139</td></tr> <tr><td>8</td><td>0.158</td><td></td><td>135</td><td>0.131</td></tr> <tr><td>13</td><td>0.158</td><td></td><td>105</td><td>0.130</td></tr> <tr><td>15</td><td>0.157</td><td></td><td>34</td><td>0.125</td></tr> <tr><td>3</td><td>0.156</td><td></td><td>38</td><td>0.122</td></tr> <tr><td>27</td><td>0.155</td><td></td><td>104</td><td>0.120</td></tr> <tr><td>19</td><td>0.154</td><td></td><td>1</td><td>0.110</td></tr> <tr><td>24</td><td>0.154</td><td></td><td>37</td><td>0.110</td></tr> <tr><td>31</td><td>0.150</td><td></td><td>11</td><td>0.108</td></tr> <tr><td>39</td><td>0.150</td><td></td><td>40</td><td>0.107</td></tr> <tr><td>112</td><td>0.150</td><td></td><td>107</td><td>0.102</td></tr> <tr><td>113</td><td>0.150</td><td></td><td>131</td><td>0.101</td></tr> <tr><td>119</td><td>< 0.15</td><td></td><td></td><td></td></tr> <tr><td>126</td><td>0.150</td><td></td><td>110</td><td>0.100</td></tr> <tr><td>130</td><td>0.150</td><td></td><td>120</td><td>0.100</td></tr> <tr><td>133</td><td>0.150</td><td></td><td>17</td><td>< 0.077</td></tr> <tr><td>5</td><td>0.149</td><td></td><td>4</td><td>0.028</td></tr> <tr><td></td><td></td><td></td><td></td><td>UNUSED</td></tr> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	136	0.220	UNUSED	7	0.148	115	0.200		36	0.147	114	0.190		116	0.145	22	0.188		33	0.144	20	0.174		21	0.143	121	0.174		35	0.143	118	0.170		16	0.142	109	0.165		6	0.140	14	0.160		10	0.140	26	0.160		12	0.140	32	0.160		140	0.140	138	0.160		23	0.139	8	0.158		135	0.131	13	0.158		105	0.130	15	0.157		34	0.125	3	0.156		38	0.122	27	0.155		104	0.120	19	0.154		1	0.110	24	0.154		37	0.110	31	0.150		11	0.108	39	0.150		40	0.107	112	0.150		107	0.102	113	0.150		131	0.101	119	< 0.15				126	0.150		110	0.100	130	0.150		120	0.100	133	0.150		17	< 0.077	5	0.149		4	0.028					UNUSED
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109	0.165		6	0.140																																																																																																																																																																																																																																																																																															
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Table 29: Analytical results for conductivity in precipitations samples.

<p>CONDUCTIVITY SAMPLE NO.: G1 THEORETICAL VALUE 40.600 UNIT: $\mu\text{S}/\text{cm}$</p> <p>RUN 1: NUMBER OF LABORATORIES: 56 ARITHMETIC MEAN VALUE: 37.616 MEDIAN: 38.650 STANDARD DEVIATION: 4.055 REL. ST. DEVIATION (%): 10.781</p> <p>RUN 2: NUMBER OF LABORATORIES: 51 ARITHMETIC MEAN VALUE: 38.325 MEDIAN: 38.800 STANDARD DEVIATION: 2.431 REL. ST. DEVIATION (%): 6.342</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>23</td><td>46.000</td><td>UNUSED</td><td>140</td><td>38.600</td></tr> <tr><td>12</td><td>42.200</td><td></td><td>4</td><td>38.500</td></tr> <tr><td>20</td><td>41.700</td><td></td><td>14</td><td>38.400</td></tr> <tr><td>13</td><td>41.500</td><td></td><td>15</td><td>38.400</td></tr> <tr><td>130</td><td>41.000</td><td></td><td>107</td><td>38.300</td></tr> <tr><td>27</td><td>40.700</td><td></td><td>114</td><td>38.200</td></tr> <tr><td>5</td><td>40.400</td><td></td><td>131</td><td>38.200</td></tr> <tr><td>109</td><td>40.400</td><td></td><td>106</td><td>38.000</td></tr> <tr><td>16</td><td>40.200</td><td></td><td>118</td><td>38.000</td></tr> <tr><td>19</td><td>40.200</td><td></td><td>22</td><td>37.900</td></tr> <tr><td>10</td><td>40.170</td><td></td><td>36</td><td>37.900</td></tr> <tr><td>121</td><td>40.000</td><td></td><td>11</td><td>37.800</td></tr> <tr><td>31</td><td>39.920</td><td></td><td>116</td><td>37.790</td></tr> <tr><td>33</td><td>39.800</td><td></td><td>37</td><td>37.500</td></tr> <tr><td>21</td><td>39.600</td><td></td><td>110</td><td>37.400</td></tr> <tr><td>112</td><td>39.600</td><td></td><td>136</td><td>37.000</td></tr> <tr><td>3</td><td>39.400</td><td></td><td>34</td><td>36.900</td></tr> <tr><td>35</td><td>39.400</td><td></td><td>39</td><td>36.000</td></tr> <tr><td>126</td><td>39.300</td><td></td><td>38</td><td>35.200</td></tr> <tr><td>8</td><td>39.200</td><td></td><td>104</td><td>35.000</td></tr> <tr><td>111</td><td>39.200</td><td></td><td>135</td><td>33.200</td></tr> <tr><td>18</td><td>39.100</td><td></td><td>119</td><td>31.900</td></tr> <tr><td>1</td><td>39.000</td><td></td><td>7</td><td>31.700</td></tr> <tr><td>17</td><td>39.000</td><td></td><td>113</td><td>30.300</td></tr> <tr><td>105</td><td>39.000</td><td></td><td>40</td><td>28.000</td></tr> <tr><td>120</td><td>39.000</td><td>UNUSED</td><td>137</td><td>27.900</td></tr> <tr><td>32</td><td>38.800</td><td>UNUSED</td><td>115</td><td>27.000</td></tr> <tr><td>6</td><td>38.700</td><td>UNUSED</td><td>24</td><td>23.000</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	23	46.000	UNUSED	140	38.600	12	42.200		4	38.500	20	41.700		14	38.400	13	41.500		15	38.400	130	41.000		107	38.300	27	40.700		114	38.200	5	40.400		131	38.200	109	40.400		106	38.000	16	40.200		118	38.000	19	40.200		22	37.900	10	40.170		36	37.900	121	40.000		11	37.800	31	39.920		116	37.790	33	39.800		37	37.500	21	39.600		110	37.400	112	39.600		136	37.000	3	39.400		34	36.900	35	39.400		39	36.000	126	39.300		38	35.200	8	39.200		104	35.000	111	39.200		135	33.200	18	39.100		119	31.900	1	39.000		7	31.700	17	39.000		113	30.300	105	39.000		40	28.000	120	39.000	UNUSED	137	27.900	32	38.800	UNUSED	115	27.000	6	38.700	UNUSED	24	23.000	<p>CONDUCTIVITY SAMPLE NO.: G2 THEORETICAL VALUE 43.100 UNIT: $\mu\text{S}/\text{cm}$</p> <p>RUN 1: NUMBER OF LABORATORIES: 56 ARITHMETIC MEAN VALUE: 40.961 MEDIAN: 41.900 STANDARD DEVIATION: 3.868 REL. ST. DEVIATION (%): 9.443</p> <p>RUN 2: NUMBER OF LABORATORIES: 53 ARITHMETIC MEAN VALUE: 41.700 MEDIAN: 42.000 STANDARD DEVIATION: 2.291 REL. ST. DEVIATION (%): 5.493</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>23</td><td>48.000</td><td></td><td>105</td><td>41.800</td></tr> <tr><td>20</td><td>45.400</td><td></td><td>35</td><td>41.700</td></tr> <tr><td>12</td><td>45.200</td><td></td><td>34</td><td>41.500</td></tr> <tr><td>18</td><td>44.900</td><td></td><td>3</td><td>41.430</td></tr> <tr><td>17</td><td>44.500</td><td></td><td>8</td><td>41.400</td></tr> <tr><td>13</td><td>43.600</td><td></td><td>11</td><td>41.300</td></tr> <tr><td>27</td><td>43.500</td><td></td><td>6</td><td>41.200</td></tr> <tr><td>121</td><td>43.400</td><td></td><td>15</td><td>41.200</td></tr> <tr><td>19</td><td>43.100</td><td></td><td>131</td><td>41.200</td></tr> <tr><td>38</td><td>43.100</td><td></td><td>14</td><td>41.000</td></tr> <tr><td>5</td><td>43.000</td><td></td><td>106</td><td>41.000</td></tr> <tr><td>10</td><td>43.000</td><td></td><td>118</td><td>41.000</td></tr> <tr><td>104</td><td>43.000</td><td></td><td>22</td><td>40.700</td></tr> <tr><td>130</td><td>43.000</td><td></td><td>36</td><td>40.300</td></tr> <tr><td>1</td><td>42.900</td><td></td><td>110</td><td>40.300</td></tr> <tr><td>109</td><td>42.900</td><td></td><td>136</td><td>40.300</td></tr> <tr><td>32</td><td>42.800</td><td></td><td>4</td><td>40.200</td></tr> <tr><td>116</td><td>42.750</td><td></td><td>107</td><td>40.100</td></tr> <tr><td>140</td><td>42.600</td><td></td><td>39</td><td>39.900</td></tr> <tr><td>16</td><td>42.300</td><td></td><td>115</td><td>39.000</td></tr> <tr><td>33</td><td>42.300</td><td></td><td>120</td><td>39.000</td></tr> <tr><td>31</td><td>42.240</td><td></td><td>113</td><td>37.500</td></tr> <tr><td>126</td><td>42.200</td><td></td><td>119</td><td>36.600</td></tr> <tr><td>21</td><td>42.170</td><td></td><td>7</td><td>35.700</td></tr> <tr><td>112</td><td>42.100</td><td></td><td>135</td><td>34.700</td></tr> <tr><td>114</td><td>42.100</td><td>UNUSED</td><td>40</td><td>30.000</td></tr> <tr><td>37</td><td>42.000</td><td>UNUSED</td><td>24</td><td>28.000</td></tr> <tr><td>111</td><td>42.000</td><td>UNUSED</td><td>137</td><td>25.700</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	23	48.000		105	41.800	20	45.400		35	41.700	12	45.200		34	41.500	18	44.900		3	41.430	17	44.500		8	41.400	13	43.600		11	41.300	27	43.500		6	41.200	121	43.400		15	41.200	19	43.100		131	41.200	38	43.100		14	41.000	5	43.000		106	41.000	10	43.000		118	41.000	104	43.000		22	40.700	130	43.000		36	40.300	1	42.900		110	40.300	109	42.900		136	40.300	32	42.800		4	40.200	116	42.750		107	40.100	140	42.600		39	39.900	16	42.300		115	39.000	33	42.300		120	39.000	31	42.240		113	37.500	126	42.200		119	36.600	21	42.170		7	35.700	112	42.100		135	34.700	114	42.100	UNUSED	40	30.000	37	42.000	UNUSED	24	28.000	111	42.000	UNUSED	137	25.700
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<p>CONDUCTIVITY SAMPLE NO.: G3 THEORETICAL VALUE 29.300 UNIT: $\mu\text{S}/\text{cm}$</p> <p>RUN 1: NUMBER OF LABORATORIES: 55 ARITHMETIC MEAN VALUE: 28.504 MEDIAN: 28.930 STANDARD DEVIATION: 2.562 REL. ST. DEVIATION (%): 8.988</p> <p>RUN 2: NUMBER OF LABORATORIES: 51 ARITHMETIC MEAN VALUE: 28.622 MEDIAN: 28.930 STANDARD DEVIATION: 1.541 REL. ST. DEVIATION (%): 5.383</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>20</td><td>35.000</td><td>UNUSED</td><td>15</td><td>28.900</td></tr> <tr><td>23</td><td>34.000</td><td>UNUSED</td><td>21</td><td>28.830</td></tr> <tr><td>18</td><td>31.290</td><td></td><td>17</td><td>28.800</td></tr> <tr><td>121</td><td>30.700</td><td></td><td>105</td><td>28.800</td></tr> <tr><td>12</td><td>30.600</td><td></td><td>37</td><td>28.700</td></tr> <tr><td>130</td><td>30.500</td><td></td><td>6</td><td>28.500</td></tr> <tr><td>32</td><td>30.200</td><td></td><td>112</td><td>28.500</td></tr> <tr><td>13</td><td>30.100</td><td></td><td>14</td><td>28.400</td></tr> <tr><td>104</td><td>30.000</td><td></td><td>131</td><td>28.400</td></tr> <tr><td>1</td><td>29.900</td><td></td><td>4</td><td>28.300</td></tr> <tr><td>27</td><td>29.900</td><td></td><td>11</td><td>28.300</td></tr> <tr><td>116</td><td>29.800</td><td></td><td>35</td><td>28.300</td></tr> <tr><td>111</td><td>29.700</td><td></td><td>140</td><td>28.300</td></tr> <tr><td>10</td><td>29.600</td><td></td><td>106</td><td>28.000</td></tr> <tr><td>5</td><td>29.500</td><td></td><td>110</td><td>28.000</td></tr> <tr><td>19</td><td>29.500</td><td></td><td>22</td><td>27.900</td></tr> <tr><td>7</td><td>29.400</td><td></td><td>36</td><td>27.500</td></tr> <tr><td>31</td><td>29.380</td><td></td><td>39</td><td>27.400</td></tr> <tr><td>8</td><td>29.300</td><td></td><td>113</td><td>27.100</td></tr> <tr><td>34</td><td>29.300</td><td></td><td>107</td><td>26.900</td></tr> <tr><td>109</td><td>29.200</td><td></td><td>136</td><td>26.300</td></tr> <tr><td>16</td><td>29.100</td><td></td><td>119</td><td>25.800</td></tr> <tr><td>33</td><td>29.100</td><td></td><td>135</td><td>24.400</td></tr> <tr><td>114</td><td>29.100</td><td></td><td>137</td><td>24.300</td></tr> <tr><td>118</td><td>29.000</td><td></td><td>115</td><td>24.000</td></tr> <tr><td>120</td><td>29.000</td><td></td><td>24</td><td>20.000</td></tr> <tr><td>126</td><td>29.000</td><td>UNUSED</td><td>40</td><td>19.000</td></tr> <tr><td>3</td><td>28.930</td><td></td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	20	35.000	UNUSED	15	28.900	23	34.000	UNUSED	21	28.830	18	31.290		17	28.800	121	30.700		105	28.800	12	30.600		37	28.700	130	30.500		6	28.500	32	30.200		112	28.500	13	30.100		14	28.400	104	30.000		131	28.400	1	29.900		4	28.300	27	29.900		11	28.300	116	29.800		35	28.300	111	29.700		140	28.300	10	29.600		106	28.000	5	29.500		110	28.000	19	29.500		22	27.900	7	29.400		36	27.500	31	29.380		39	27.400	8	29.300		113	27.100	34	29.300		107	26.900	109	29.200		136	26.300	16	29.100		119	25.800	33	29.100		135	24.400	114	29.100		137	24.300	118	29.000		115	24.000	120	29.000		24	20.000	126	29.000	UNUSED	40	19.000	3	28.930				<p>CONDUCTIVITY SAMPLE NO.: G4 THEORETICAL VALUE 27.900 UNIT: $\mu\text{S}/\text{cm}$</p> <p>RUN 1: NUMBER OF LABORATORIES: 54 ARITHMETIC MEAN VALUE: 26.864 MEDIAN: 27.210 STANDARD DEVIATION: 2.340 REL. ST. DEVIATION (%): 8.712</p> <p>RUN 2: NUMBER OF LABORATORIES: 49 ARITHMETIC MEAN VALUE: 27.277 MEDIAN: 27.290 STANDARD DEVIATION: 1.251 REL. ST. DEVIATION (%): 4.586</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>20</td><td>32.500</td><td>UNUSED</td><td>16</td><td>27.200</td></tr> <tr><td>23</td><td>31.000</td><td></td><td>15</td><td>27.100</td></tr> <tr><td>18</td><td>29.550</td><td></td><td>131</td><td>27.100</td></tr> <tr><td>12</td><td>29.000</td><td></td><td>4</td><td>27.000</td></tr> <tr><td>13</td><td>29.000</td><td></td><td>8</td><td>27.000</td></tr> <tr><td>121</td><td>28.800</td><td></td><td>37</td><td>27.000</td></tr> <tr><td>27</td><td>28.500</td><td></td><td>106</td><td>27.000</td></tr> <tr><td>32</td><td>28.500</td><td></td><td>112</td><td>27.000</td></tr> <tr><td>130</td><td>28.500</td><td></td><td>120</td><td>27.000</td></tr> <tr><td>116</td><td>28.220</td><td></td><td>6</td><td>26.800</td></tr> <tr><td>5</td><td>28.000</td><td></td><td>11</td><td>26.800</td></tr> <tr><td>118</td><td>28.000</td><td></td><td>14</td><td>26.700</td></tr> <tr><td>10</td><td>27.900</td><td></td><td>105</td><td>26.600</td></tr> <tr><td>111</td><td>27.900</td><td></td><td>22</td><td>26.400</td></tr> <tr><td>31</td><td>27.870</td><td></td><td>36</td><td>26.200</td></tr> <tr><td>19</td><td>27.800</td><td></td><td>7</td><td>26.000</td></tr> <tr><td>34</td><td>27.700</td><td></td><td>136</td><td>26.000</td></tr> <tr><td>109</td><td>27.700</td><td></td><td>39</td><td>25.800</td></tr> <tr><td>1</td><td>27.600</td><td></td><td>107</td><td>25.600</td></tr> <tr><td>35</td><td>27.600</td><td></td><td>113</td><td>25.600</td></tr> <tr><td>126</td><td>27.600</td><td></td><td>110</td><td>25.400</td></tr> <tr><td>140</td><td>27.600</td><td></td><td>135</td><td>24.100</td></tr> <tr><td>17</td><td>27.500</td><td></td><td>119</td><td>24.000</td></tr> <tr><td>114</td><td>27.500</td><td></td><td>115</td><td>22.000</td></tr> <tr><td>33</td><td>27.300</td><td>UNUSED</td><td>137</td><td>21.600</td></tr> <tr><td>3</td><td>27.290</td><td>UNUSED</td><td>24</td><td>19.000</td></tr> <tr><td>21</td><td>27.220</td><td></td><td>40</td><td>19.000</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	20	32.500	UNUSED	16	27.200	23	31.000		15	27.100	18	29.550		131	27.100	12	29.000		4	27.000	13	29.000		8	27.000	121	28.800		37	27.000	27	28.500		106	27.000	32	28.500		112	27.000	130	28.500		120	27.000	116	28.220		6	26.800	5	28.000		11	26.800	118	28.000		14	26.700	10	27.900		105	26.600	111	27.900		22	26.400	31	27.870		36	26.200	19	27.800		7	26.000	34	27.700		136	26.000	109	27.700		39	25.800	1	27.600		107	25.600	35	27.600		113	25.600	126	27.600		110	25.400	140	27.600		135	24.100	17	27.500		119	24.000	114	27.500		115	22.000	33	27.300	UNUSED	137	21.600	3	27.290	UNUSED	24	19.000	21	27.220		40	19.000					
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111	27.900		22	26.400																																																																																																																																																																																																																																																																																					
31	27.870		36	26.200																																																																																																																																																																																																																																																																																					
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Table 30: Ratio of the measured to the calculated conductivity in synthetic precipitation samples (G1-G4).

Lab. No.	Measured value / calculated value				Remarks
	G1	G2	G3	G4	
1	1.00	1.03	1.03	0.95	
3	1.00	0.99	1.00	1.00	
4	0.98	0.97	1.02	1.01	
5	1.03	1.05	1.03	1.03	
6	0.98	0.97	0.98	0.99	
7	0.82	0.85	1.01	0.95	
8	1.04	1.04	1.04	1.02	
10	0.94	0.94	0.97	0.97	
11	1.07	1.10	1.03	1.05	
12	1.07	1.07	1.06	1.06	
13	1.03	1.06	1.05	1.07	
14	1.07	1.07	1.04	1.06	
15	1.02	1.03	1.02	1.01	
16	0.96	0.97	1.01	0.97	
17	1.52	1.09	1.03	0.97	K ⁺ is missing
18					Reports only NH ₄ ⁺ , Cl ⁻ , pH and cond.
19	1.11	1.12	1.11	1.13	
20	1.16	1.19	1.29	1.29	
21	1.03	1.02	1.01	1.01	
22	1.09	1.11	1.05	1.07	
23	1.18	1.14	1.14	1.15	
24					NH ₄ ⁺ , SO ₄ ²⁻ G4 and NO ₃ ⁻ G4 are missing
26					Cond. missing
27	1.09	1.09	1.07	1.08	
31	1.00	1.01	1.00	1.01	
32	1.09	1.11	1.13	1.11	Mg ²⁺ is missing
33	1.05	1.05	1.02	1.04	
34	0.99	1.02	1.05	1.05	
35	1.08	1.07	1.08	1.12	
36	1.04	0.99	1.00	0.97	
37	0.77	0.76	0.94	0.73	
38	1.03	1.12	0.00	0.00	
39	0.98	0.99	0.97	0.98	
40					SO ₄ ²⁻ is missing
104	0.97	1.03	1.05	0.00	
105	1.01	1.01	0.98	0.99	
106					Reports only NH ₄ ⁺
107	1.04	1.00	1.00	1.06	
109	1.05	1.03	1.01	1.01	
110	1.03	1.02	1.03	1.03	
111					Mg ²⁺ , Na ⁺ , Ca ²⁺ and K ⁺ are missing
112	1.12	1.16	1.09	1.15	Cl ⁻ values >LOD for G1 and G2 and NH ₄ ⁺ G4 are missing
113	0.93	0.94	0.94	0.93	
114	1.01	1.05	1.01	0.97	
115	0.81	1.07	0.87	0.82	Mg ²⁺ values < LOD for G2 and G3
116	0.72	0.91	0.97	0.90	
118	0.94	0.93	0.93	0.99	
119	0.92	0.90	0.93	0.92	Mg ²⁺ values < LOD
120	1.07	1.02	1.09	1.09	
121	1.07	1.08	1.08	1.05	
126	0.94	0.97	0.93	0.94	
130	0.69	1.10	0.75	0.75	
131	1.00	1.00	0.99	1.03	
133					Cond. is missing
135	0.83	0.84	0.83	0.82	
136	0.78	0.67	0.62	0.62	
137					Mg ²⁺ , Na ⁺ , Ca ²⁺ and K ⁺ are missing
138					Cond. is missing
140	0.89	0.99	0.96	0.90	

Table 31: Ratio of equivalent concentration of anions to the equivalent concentration of cation measured in synthetic precipitation samples.

Lab. No.	Anions / Cations					Remarks
	G1	G2	G3	G4	Average	
1	1.10	1.10	1.05	1.04	1.07	
3	1.04	1.05	1.03	1.03	1.04	
4	1.06	1.11	1.10	1.10	1.09	
5	1.03	1.03	1.03	0.99	1.02	
6	1.00	0.98	0.97	0.98	0.98	
7	1.11	1.10	1.04	1.06	1.08	
8	1.06	1.06	1.01	1.02	1.03	
10	0.99	1.00	1.03	1.02	1.01	
11	1.12	1.22	1.12	1.13	1.15	
12	1.03	1.03	1.04	1.02	1.03	
13	0.89	1.07	0.99	1.01	0.99	
14	1.23	1.21	1.16	1.18	1.20	
15	1.05	1.06	1.01	1.01	1.03	
16	0.96	0.97	1.00	1.01	0.98	
17	1.77	1.15	1.15	1.35	1.36	K ⁺ values < LOD
18						Reports only NH ₄ ⁺ , Cl ⁻ , pH and cond.
19	1.01	1.01	1.02	1.04	1.02	
20	1.09	1.10	1.04	1.07	1.07	
21	1.08	1.07	1.06	1.05	1.07	
22	1.08	1.08	1.00	1.01	1.04	
23	1.06	1.06	1.03	1.06	1.05	
24						NH ₄ ⁺ , SO ₄ ²⁻ G4 and NO ₃ ⁻ G4 are missing
26	1.05	1.07	1.01	1.02	1.04	
27	1.11	1.10	1.07	1.07	1.08	
31	1.03	1.03	1.02	1.00	1.02	
32	1.16	1.10	1.11	1.03	1.10	
33	1.08	1.09	1.03	1.02	1.05	
34	1.04	1.03	1.00	1.01	1.02	
35	1.25	1.25	1.22	1.24	1.24	
36	1.07	1.02	1.01	1.00	1.02	
37	0.85	0.82	0.96	0.82	0.86	
38	1.08	1.03	1.01	1.02	1.03	
39	1.14	1.11	1.04	1.04	1.08	
40						SO ₄ ²⁻ is missing
104	1.05	0.99	1.02	1.02	1.02	
105	0.95	0.93	0.94	0.97	0.95	
106						Reports only NH ₄ ⁺
107	1.18	1.17	1.12	1.17	1.16	
109	0.92	0.92	0.94	0.92	0.92	
110	1.03	1.04	1.00	1.04	1.03	
111						Mg ²⁺ , Na ⁺ , Ca ²⁺ and K ⁺ are missing
112	1.06	1.08	1.08	1.25	1.12	
113	1.09	1.00	1.03	1.03	1.04	
114	1.07	1.08	1.02	1.02	1.05	
115	1.22	1.18	1.06	1.03	1.12	
116	1.27	0.78	0.98	1.05	1.02	
118	1.00	1.02	1.02	0.99	1.01	
119	1.29	1.14	1.12	1.15	1.18	Mg ²⁺ values < LOD
120	1.06	1.07	1.04	1.09	1.07	
121	0.93	0.96	0.95	0.83	0.92	
126	1.02	0.98	1.00	1.01	1.00	
130	2.29	4.07	2.01	2.14	2.63	
131	1.12	1.13	1.10	1.11	1.11	
133	1.17	1.25	1.04	1.27	1.18	
135	1.09	1.11	1.17	1.01	1.09	
136	0.27	0.29	0.42	0.42	0.35	
137						Mg ²⁺ , Na ⁺ , Ca ²⁺ and K ⁺ are missing
138						NH ₄ ⁺ and pH are missing
140	0.94	0.99	1.01	0.94	0.97	

Table 32: The ratio of the median values to the theoretical values for all parameters and samples.

Parameter	Sample No.	Median / Expected
SO ₄ -S	G1	1.00
	G2	1.00
	G3	1.00
	G4	1.00
NO ₃ -N	G1	1.00
	G2	1.00
	G3	1.00
	G4	1.00
NH ₄ -N	G1	0.98
	G2	1.00
	G3	1.00
	G4	1.00
pH (calc.from H ⁺)	G1	0.90
	G2	0.93
	G3	0.95
	G4	0.95
H	G1	0.94
	G2	0.95
	G3	0.97
	G4	0.95
Mg	G1	0.98
	G2	1.00
	G3	0.99
	G4	0.98
Na	G1	1.00
	G2	0.97
	G3	0.97
	G4	0.97
Cl	G1	0.99
	G2	0.98
	G3	0.98
	G4	0.97
Ca	G1	1.01
	G2	1.00
	G3	1.00
	G4	1.01
K	G1	0.98
	G2	0.98
	G3	0.97
	G4	0.98
Cond.	G1	0.95
	G2	0.97
	G3	0.99
	G4	0.97

Table 33: Analytical methods used for the determination of chemical constituents in precipitation samples.

Constituents	Methods	Laboratory
SO ₄	1. Thorin 2. Ion chromatography 3. Capillary electrophoresis 4. ICP-AES 5. FIA 6. Turbidimetry	18 1, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 19, 20, 21, 22, 23, 26, 27, 31,32, 33, 34, 35, 36, 38, 104, 105, 107,110, 111, 114, 115, 116, 118, 119, 121, 124, 130, 131, 133, 134, 135, 136, 137, 138, 140 39 109, 112, 117 24
NO ₃	1 Griess after Cd-red. 2 Ion chromatography 3 UV-method/Photometric 4 Capillary electrophoresis 5 FIA	24, 112 1, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 19, 20, 21, 22, 23, 26, 27, 31,32, 33, 34, 35, 36, 38, 105, 107,110, 114, 115, 116, 118, 119, 121, 124,130, 131, 133, 134, 135, 136, 137, 138, 140 40, 104, 39 109, 111, 113,
NH ₄	1 Indophenol 2 Berthelot reaction, salicylate 3 Ion chromatography 4 Flow injection analysis (FIA) 5 Chloramin T 6 Nessler method 7 Kjeldahl 8 Photometry	10, 17, 18, 19, 20, 24,32, 34, 35, 39, 40, 112, 114,140 26, 1, 5, 7, 8, 12, 13, 15, 21, 22, 23, 31, 36, 107, 115, 119, 121, 124, 131,135,136 6, 11, 14, 27, 106, 109, 111, 113, 134 16 105 3, 4, 33, 104, 110,114, 116, , 118, 133,137
H ⁺	1 Acidimetric titration 2 Alkali titration to spec. pH	14, 124, 126 6,
Mg	1 Atomic absorption (AAS) 2 Ion chromatography 3 ICP-AES	3, 4, 10, 16, 17, 19, 20, 22, 24, 26, 27, 33, 34, 35, 38, 40, 105,116, 121, 124, 133,137 1, 5, 6, 7, 8, 12, 13, 15, 21, 23, 31, 36, 107, 114, 119, 130, 131, 135, 136, 138, 140 11, 14, 39, 104, 109, 111, 112, 113, 115, 118
Na	1 AES 2 AAS 3 ICP-AES 4 Ion chromatography	33, 38, 112, 133 3, 4, 10, 16, 17, 19, 20, 24, 26, 27,32, 34, 35, 40, 105, 116, 124,137 11, 14, 39, 104, 109, 110,111, 115, 118, 1, 5, 6, 7, 8, 12, 13, 15, 21, 22, 23, 31, 36, 107, 114, 119, 121, 130, 131, 135, 136, 138, 140
Cl	1 Mercury thiocyanate-iron 2 Ion chromatography 3 Capillary electrophoresis 4 Potensimetric method 5 Photometric method	18, 24, 40 1, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 19, 20, 21, 22, 23, 26, 27, 31,32, 33, 34, 35, 36, 38, 104, 105, 107,110, 111, 114, 115, 116, 118, 119, 121, 124,130, 131, 133, 134, 135, 136, 137, 138, 140 39 109, 112
Ca	1 AAS 2 ICP-AES 3 Ion chromatography 4 AES	3, 4, 8,10, 16, 17, 19, 22, 24, 26, 27,32, 33, 34, 35, 38, 40, 105, 116, 124, 133,137 11, 14, 39, 104, 109,110, 111, 112, 113, 115, 118 1, 5, 6, 7, 8, 12, 15, 20,21, 23, 31, 36, 107, 114, 119, 121, 130, 131, 135, 136, 138, 140
K	1 AAS 2 Ion chromatography 3 AES 4 ICP-AES	3, 4, 10, 16, 17, 18, 19, 24, 26, 27,32, 34, 35, 40, 105, 112, 124,137s 1, 5, 6, 7, 8, 12, 13, 15, 20, 21, 22, 23, 31, 36, 107, 114, 119, 121, 126,130, 131, 135, 136, 138, 140 33, 39, 116, 133? 11, 14, 104, 109, 110,111, 113, 115, 118

Table 34: Relative random and systematic errors obtained by the different laboratories in the analysis of each parameter in the precipitation samples.

Lab. no.	SO ₄ ²⁻		NO ₃ ⁻		NH ₄ ⁺		Mg ²⁺		H calc	
	Random error %	Systematic error %	Random error %	Systematic error %	Random error %	Systematic error %	Random error %	Systematic error %	Random error %	Systematic error %
1	0	4	2	2	4	3	3	-9	7	-5
3	0	1	0	-3	2	-15	1	-2	2	-2
4	0	3	2	3	1	-3	2	-11	2	-7
5	-1	-1	1	2	4	-1	0	2	3	-6
6	0	-3	0	-4	0	0	0	-8	2	0
7	0	5	1	1	2	-1	6	-9	4	-5
8	0	0	0	-2	2	3	1	1	4	-11
10	2	3	0	0	1	-5	3	0	2	9
11	0	-1	2	3	2	2	1	-5	7	-17
12	0	0	1	0	4	-5	0	-1	1	-3
13	-1	2	1	0	2	0	2	4	3	-7
14	2	11	0	1	2	-2	1	-7	6	-21
15	0	1	1	-1	3	1	1	6	4	-11
16	-1	-2	2	-3	4	-5	3	-6	3	3
17	1	6	1	1	4	15	2	-2	30	-7
18					14	12			8	28
19	0	-1	0	-2	6	21	1	0	3	-19
20	0	0	1	1	1	-2	3	14	5	-19
21	0	4	0	0	1	-2	1	0	3	-8
22	0	-10	1	-5	1	-5	2	-7	8	-14
23	1	0	1	3	1	-4	1	-3	4	-4
24			41	6			11	-34	6	-14
26	0	-1	0	-1	0	-2	1	0	6	-11
27	0		1	1	2	-6	1	-2	4	-12
31	1	1	1	-1	4	-1	1	0	3	-2
32	0	-8	0	1	2	5			5	-12
33	1	3	1	2	3	7	1	0	4	-11
34	0	0	0	-3	4	-2	2	1	4	-9
35	0	4	1	0	1	-2	7	-52	3	-15
36	0	-3	1	-1	3	1	1	-3	6	-9
37	0	-2	2	1	2	11	7	-27	22	45
38	0	-9	1	-7	2	-5	4	-20	8	-13
39	1	6	1	3	4	11	1	1	47	-14
40			18	64	6	72	8	0		
104	1	-2	0	-1	1	3	3	0	8	-6
105	1	-2	1	-4	2	1	3	-18	3	-4
106									2	-5
107	3	6	1	0	1	-14	4	2	4	-13
109	2	-4	1	-10	2	4	1	-5	3	0
110	1	-5	1	-6	1	-11	2	-20	4	-12
111	1	-3	0	-2	1	-4			5	-17
112	1	1	1	-6			2	-2	6	-19
113	1	-3	1	0	2	3	9	6	16	-5
114	2	4	0	2	1	3	2	-2	7	-11
115	4	-1	6	-2	7	3			14	-19
116	9	28	58	-11	10	35	28	-4	6	4
118	2	6	6	0	3	-8	1	1	5	2
119	1	1	1	-6	2	-9			9	-5
120	3	-7	1	-8	7	-13	3	0	5	-10
121	1	-6	3	-4	1	-7	5	-13	4	-7
126	3	2	2	0	3	-7	5	7	2	8
130	35	204	1	3	1	0	2	-6	47	2
131	1	1	1	0	5	-4	1	-4	2	-5
133	11	24	2	5	9	7	8	47	25	-18
135	2	3	1	3	2	-3	9	1	7	0
136	8	-34	36	13	18	48	108	607	14	28
137	7	8	4	-5	1	-7			28	-86
138	36	200	52	325			4	9		
140	1	0	1	-2	1	2	3	-4	6	8

Table 34, cont.

Lab. no.	Na ⁺		Cl ⁻		Ca ²⁺		K ⁺		Cond.	
	Random error %	Systematic error %	Random error %	Systematic error %	Random error %	Systematic error %	Random error %	Systematic error %	Random error %	Systematic error %
1	3	-7	3	-6	3	-9	2	-24	3	-1
3	2	-4	2	-5	2	1	2	1	1	-3
4	9	2	3	-4	2	-1	51	-32	2	-4
5	0	1	1	-1	3	8	1	1	0	0
6	1	-1	4	-5	3	3	3	-6	1	-4
7	0	0	2	-4	3	-7	1	-1	10	-13
8	1	-1	1	-2	3	-2	1	1	2	-3
10	6	-18	20	-3	7	9	2	-6	1	0
11	6	-13	9	10	1	-5	9	0	2	-4
12	1	-1	1	-1	2	-6	2	-6	1	4
13	1	1	1	0	5	5	1	1	1	2
14	3	-7	2	-2	2	-7	4	2	2	-5
15	1	0	3	-2	2	6	1	2	2	-4
16	2	-2	3	-2	1	-1	2	-4	1	-2
17	3	-21	66	36	1	-20			4	-1
18			9	-10					4	5
19	1	-5			1	1	2	0	1	0
20	3	-2	1	-3	2	4	4	13	5	10
21	1	-2	1	0	1	3	2	-6	1	-2
22	11	-25	15	-31	2	-14	15	-2	2	-5
23	1	-10	0	-2	3	-2	2	-8	3	14
24	2	-4			11	-36	2	-1	10	-35
26	1	0	1	-1	1	1	2	2		
27	1	1	0	0	0	-3	3	1	1	2
31	2	-3	6	2	3	3	3	0	1	-1
32	9	10	2	-6	12	-41	5	3	3	1
33	1	-1			2	0	1	-3	1	-2
34	5	3	4	-7	4	9	6	-16	4	-2
35	3	0	2	-2	5	-46	1	-5	1	-3
36	1	1	1	-2	0	1	1	-3	1	-6
37	4	0	4	-8	11	-17	3	-21	3	-3
38	3	-11			3	-5	4	-13		
39	1	-1	5	-9	1	1	1	-1	3	
40	6	7	25	26	0	9	3	-26	5	-33
104	5	-5	4	0	13	14	3	-13		
105	2	-1			10	30	3	-8		
106									2	-5
107	7	-22			2	-5	5	-28	1	-7
109	2	-10			1	2	6	2	0	0
110	2	4	9	-1	3	3	10	-15	2	-7
111									2	-1
112	2	-4			3	0	0	-2	0	-3
113	4	-13			11	-3	20	-15	9	-11
114	2	0	2	-1	7	5	4	11	3	-2
115	5	0	9	2	4	-16	9	31	11	-16
116	9	4	52	6	50	120	4	-5	4	0
118	5	2	3	-13	11	14	6	9	3	-3
119	1	-5	1	-4	5	-16			6	-15
120	8	-21	15	-8	2	-9	4	-28	4	-4
121	24	0			2	32	5	-1	2	2
126	4	-12	8	-8	1	-8	4	-4	1	-2
130	2	-4	6	-1	1	-11	2	-6	1	1
131	7	-10	14	15	5	-28	12	-16	2	-4
133	5	-2	14	22	7	62	2	-2		
135	32	5	6	2	5	-28	6	-2	5	-17
136	11	47	8	-3	106	565	142	45	2	-8
137			26	48					14	-27
138	7	-15	4	3	6	14	4	-4		
140	2	-8	6	-5	13	2	5	-8	2	-2

Appendix 2

Figures

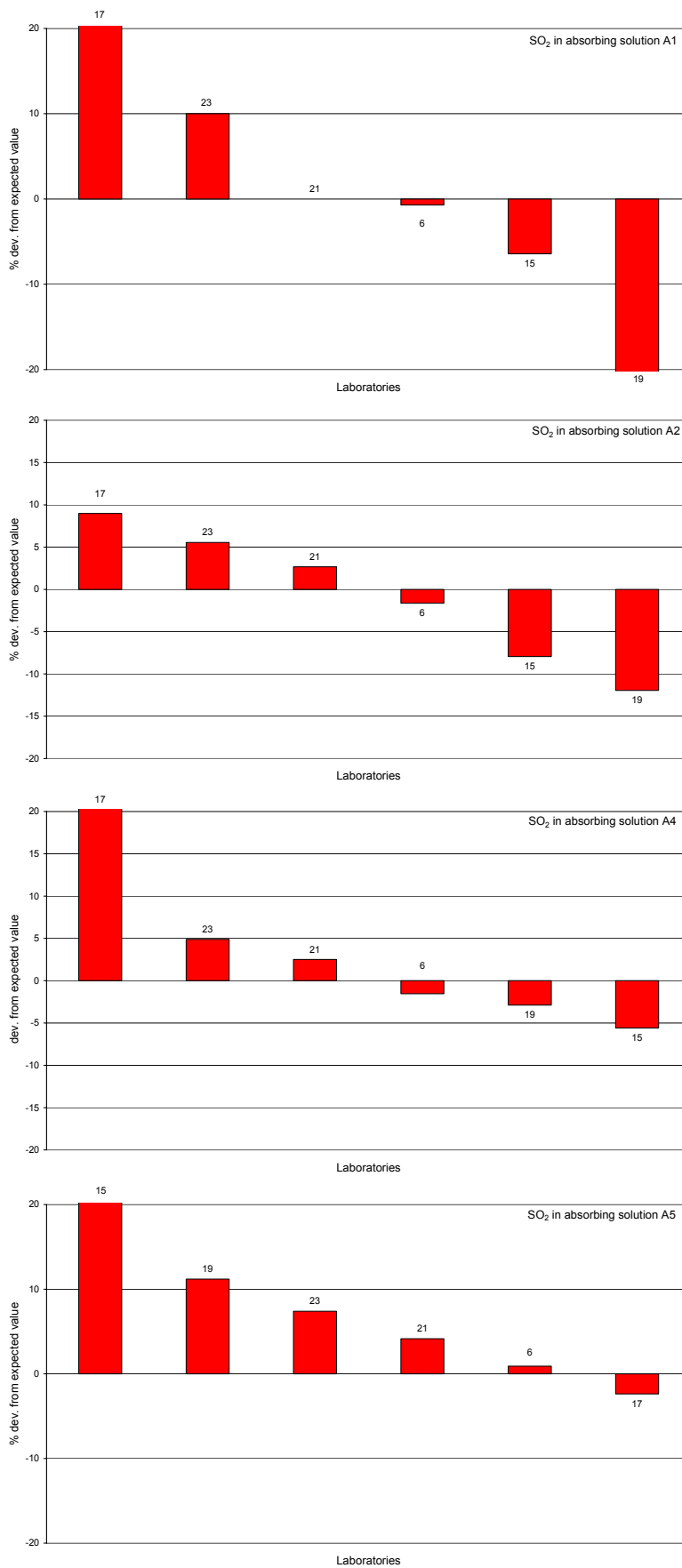


Figure 1: SO₂ in absorbing solution.

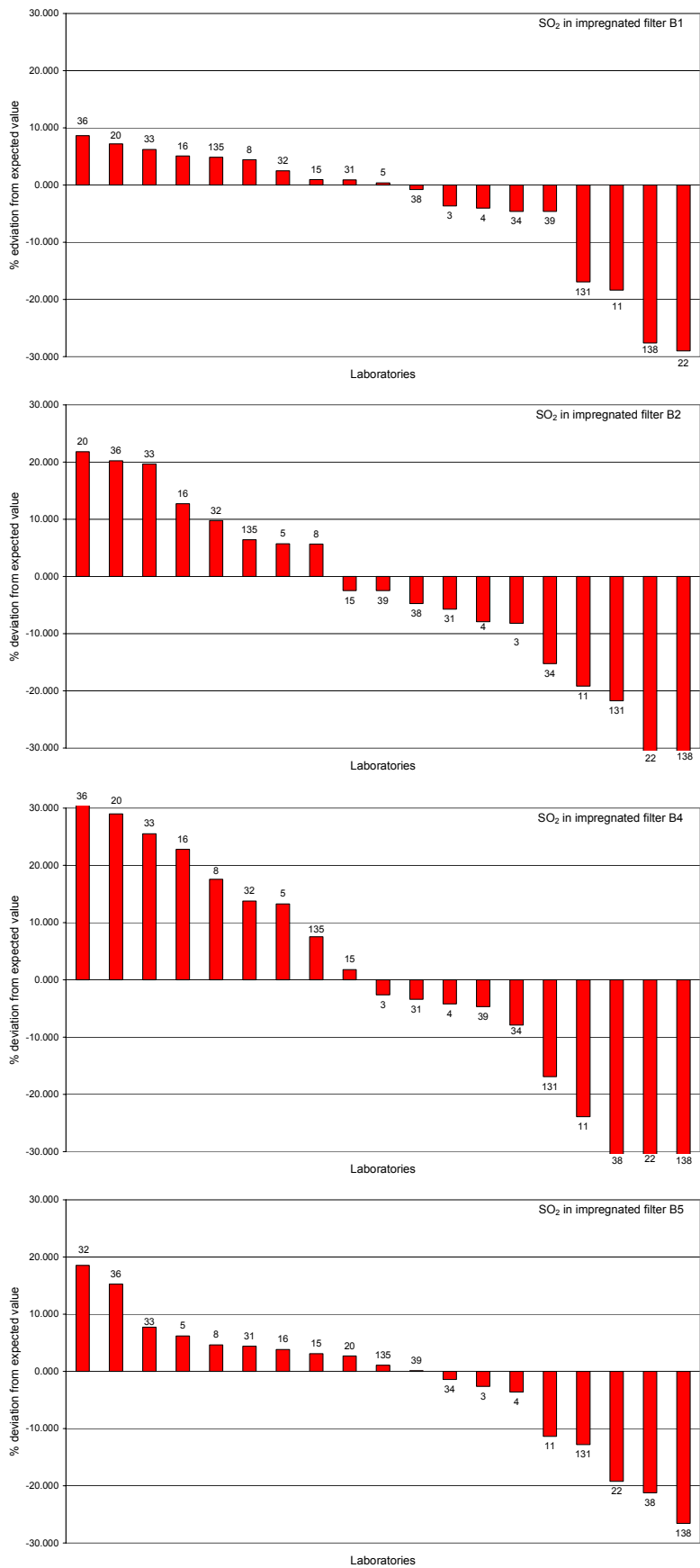


Figure 2: SO₂ in impregnated filter.

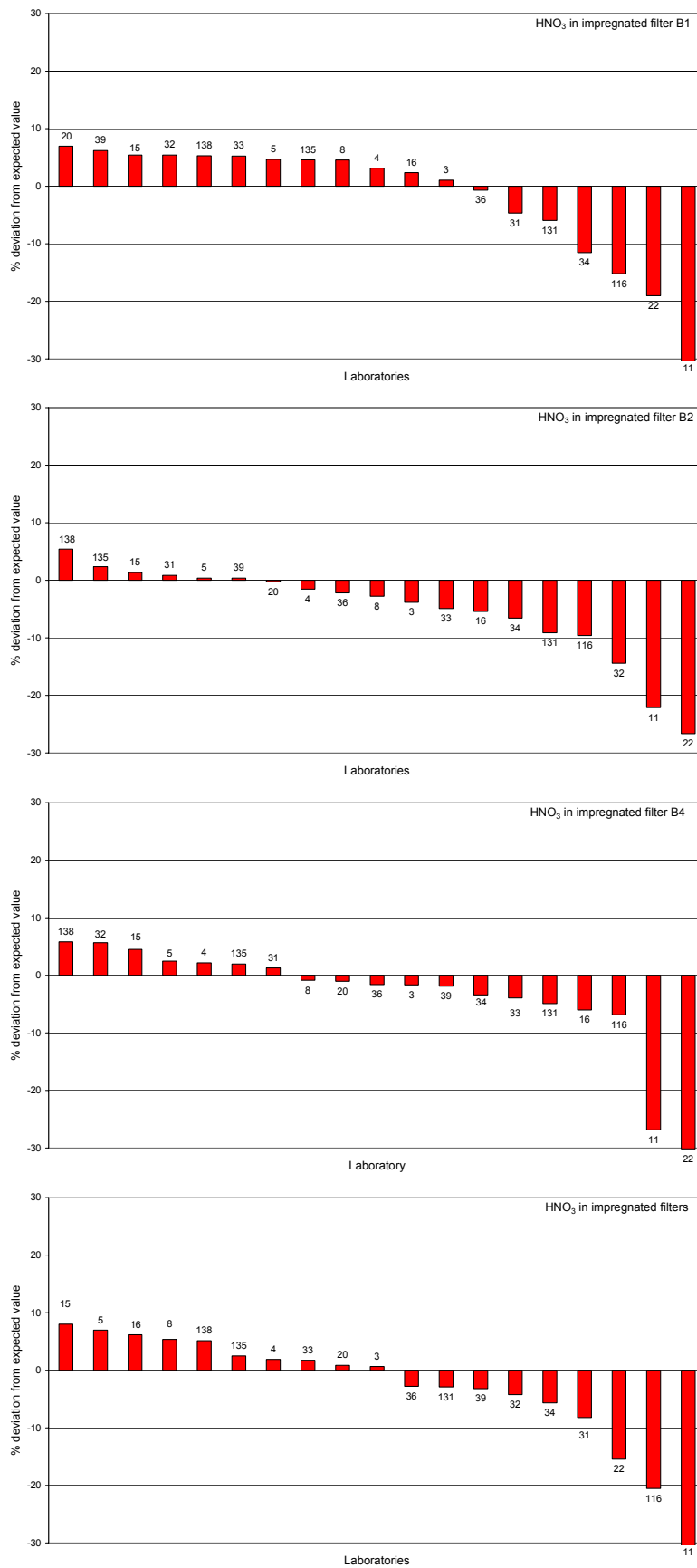


Figure 3: HNO₃ in impregnated filter.

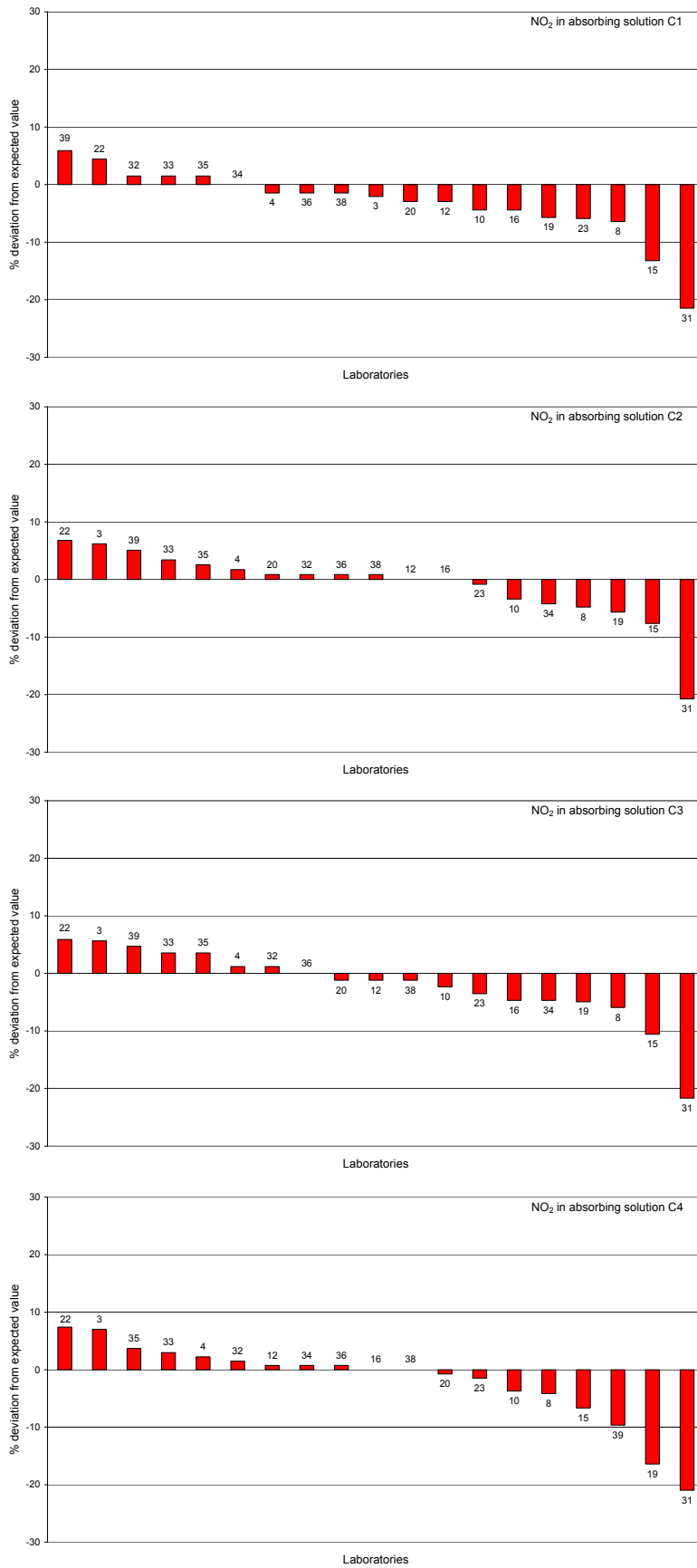


Figure 4: NO₂ in absorbing solution.

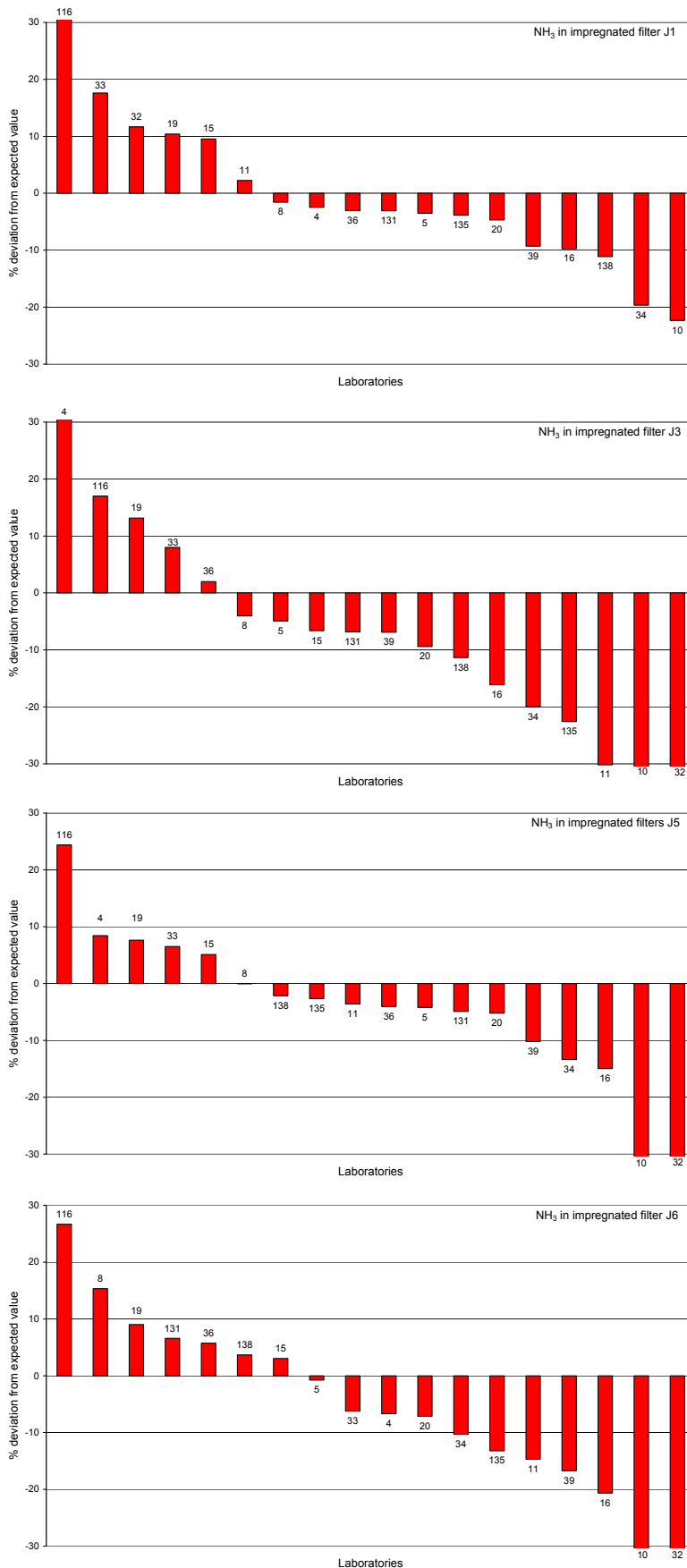


Figure 5: NH₃ in impregnated filter.

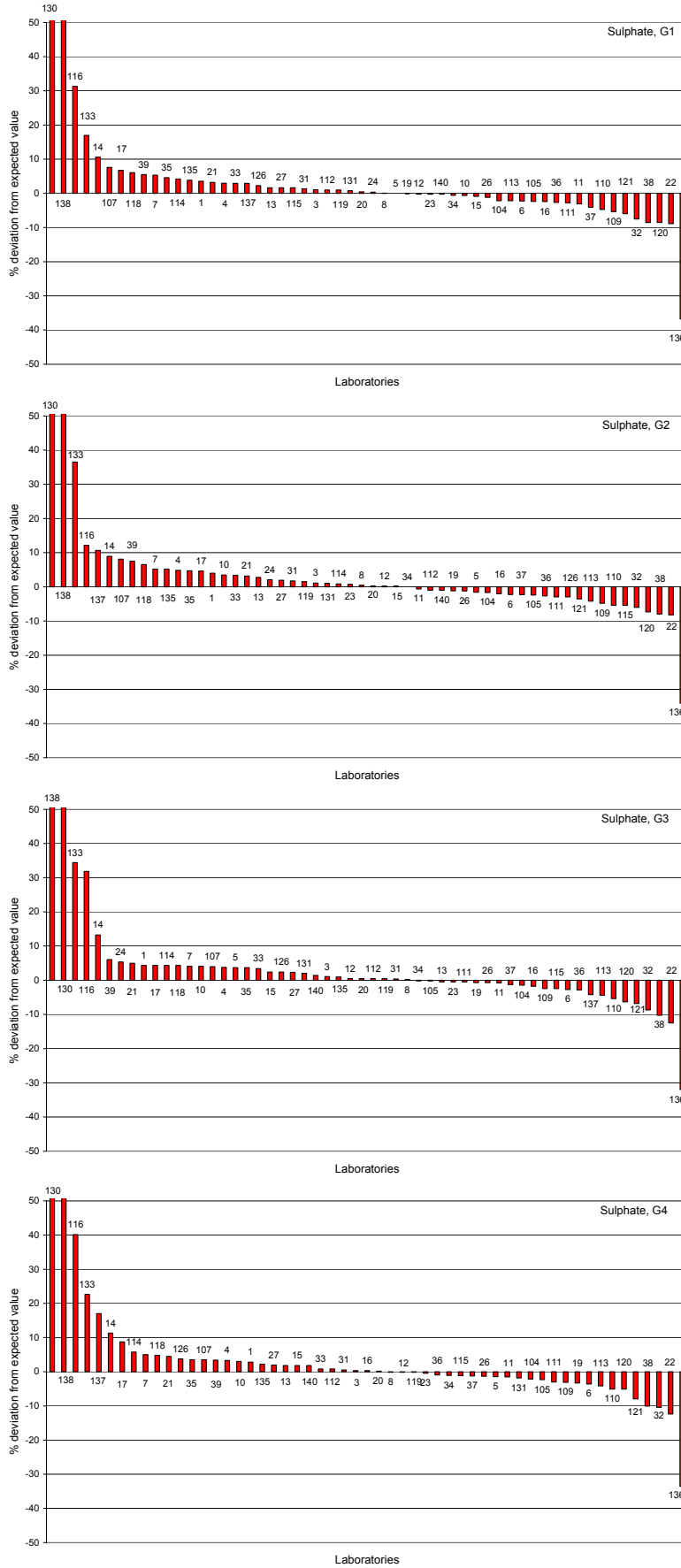


Figure 6: Percent deviation from theoretical value for sulphate.

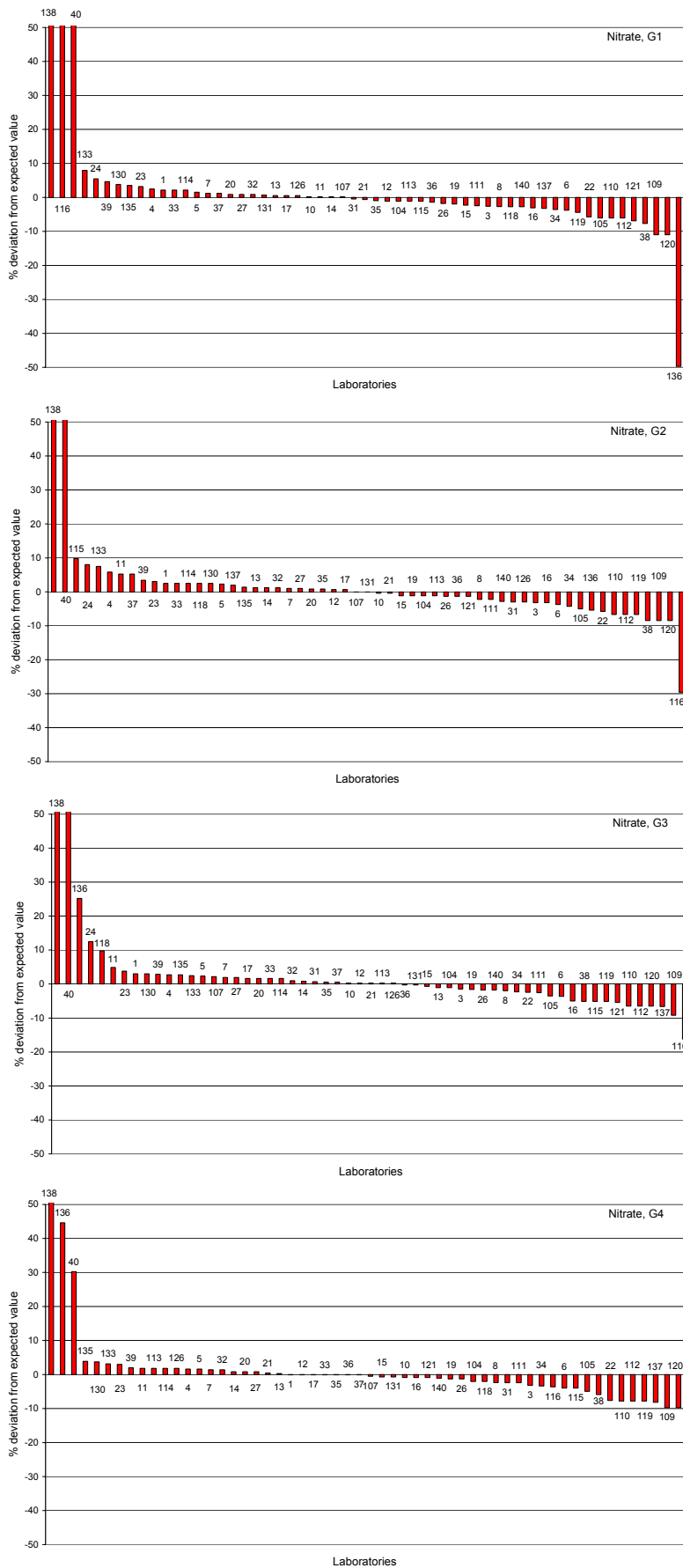


Figure 7: Percent deviation from theoretical value for nitrate.

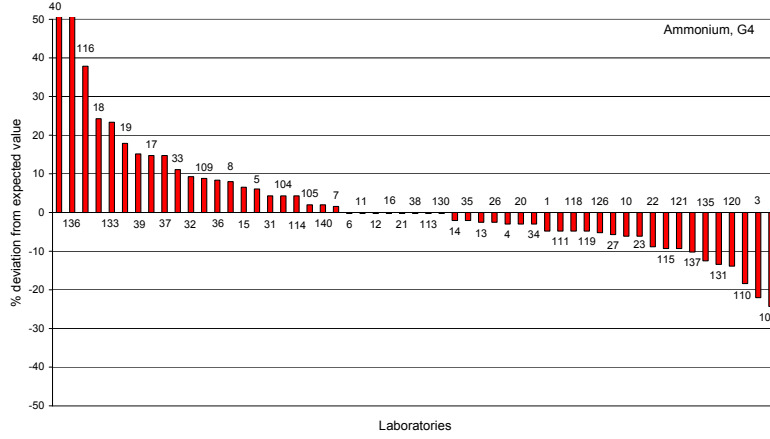
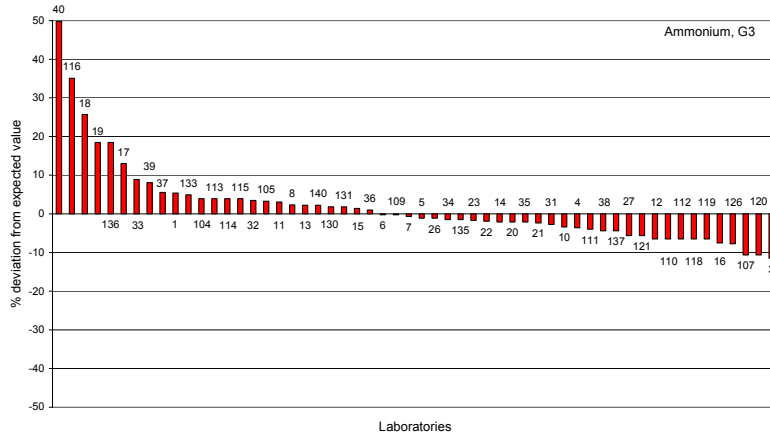
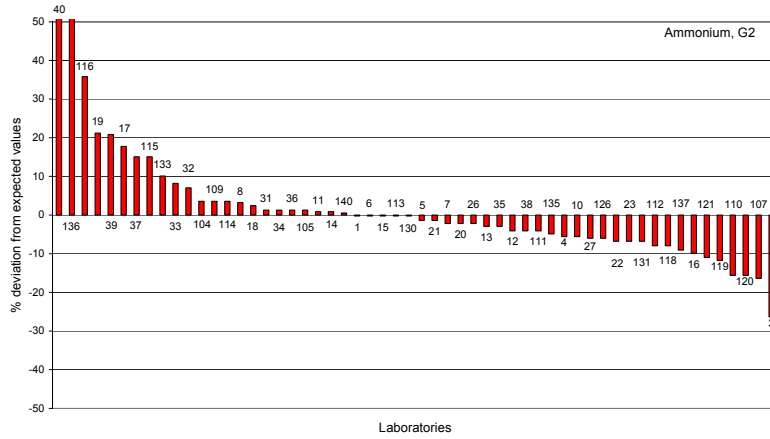
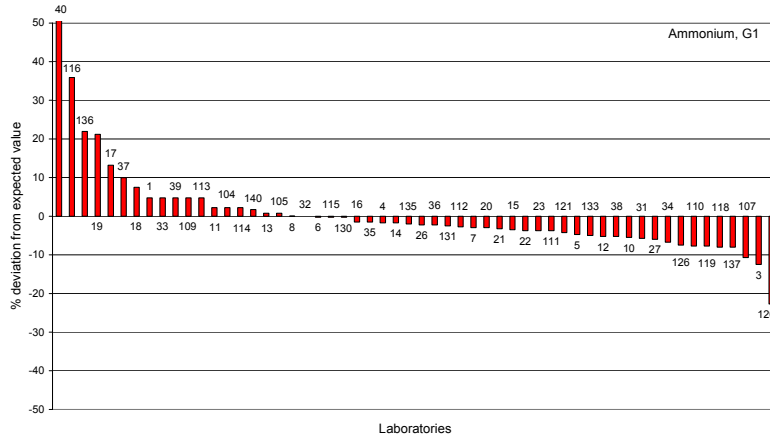


Figure 8: Percent deviation from theoretical value for ammonium.

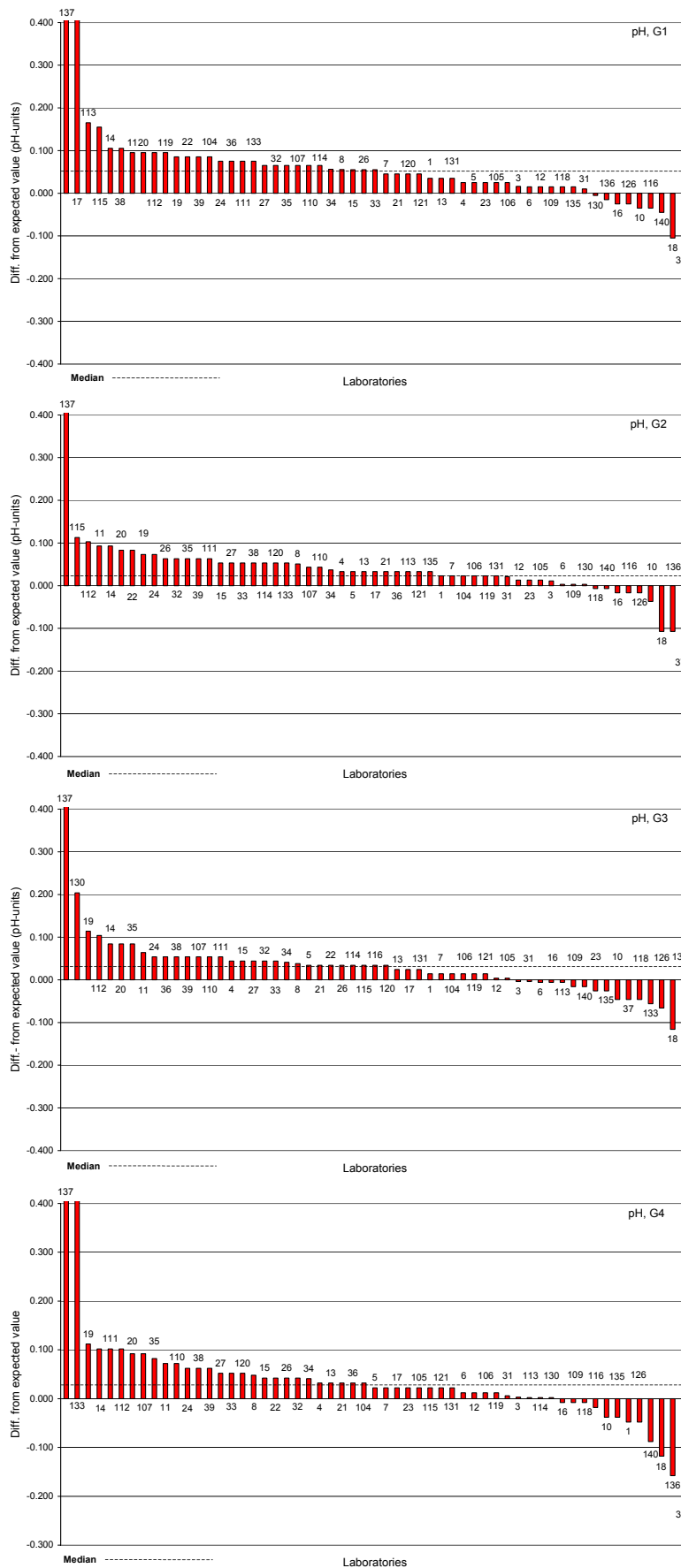


Figure 9: Percent deviation from theoretical value for pH.

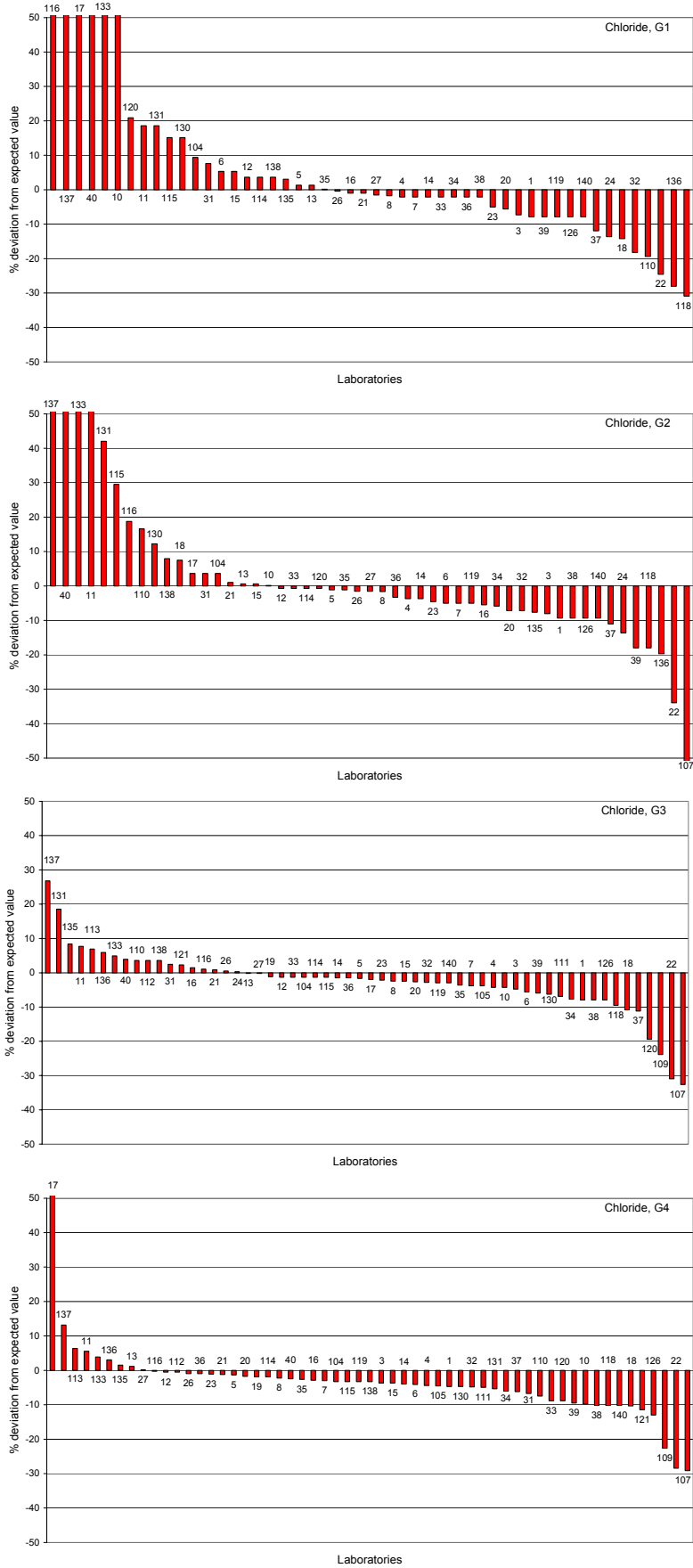


Figure 10: Percent deviation from theoretical value for chloride.

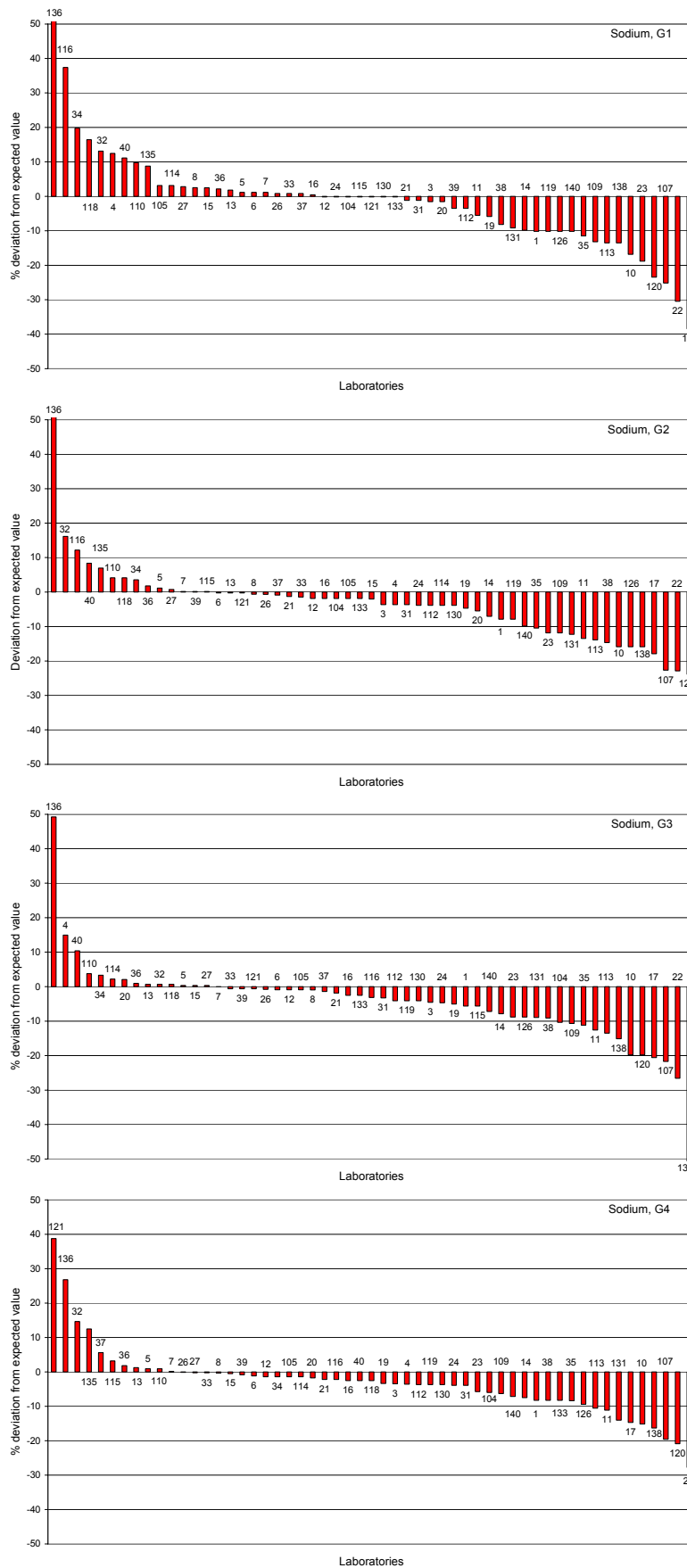


Figure 11: Percent deviation from theoretical value for sodium.

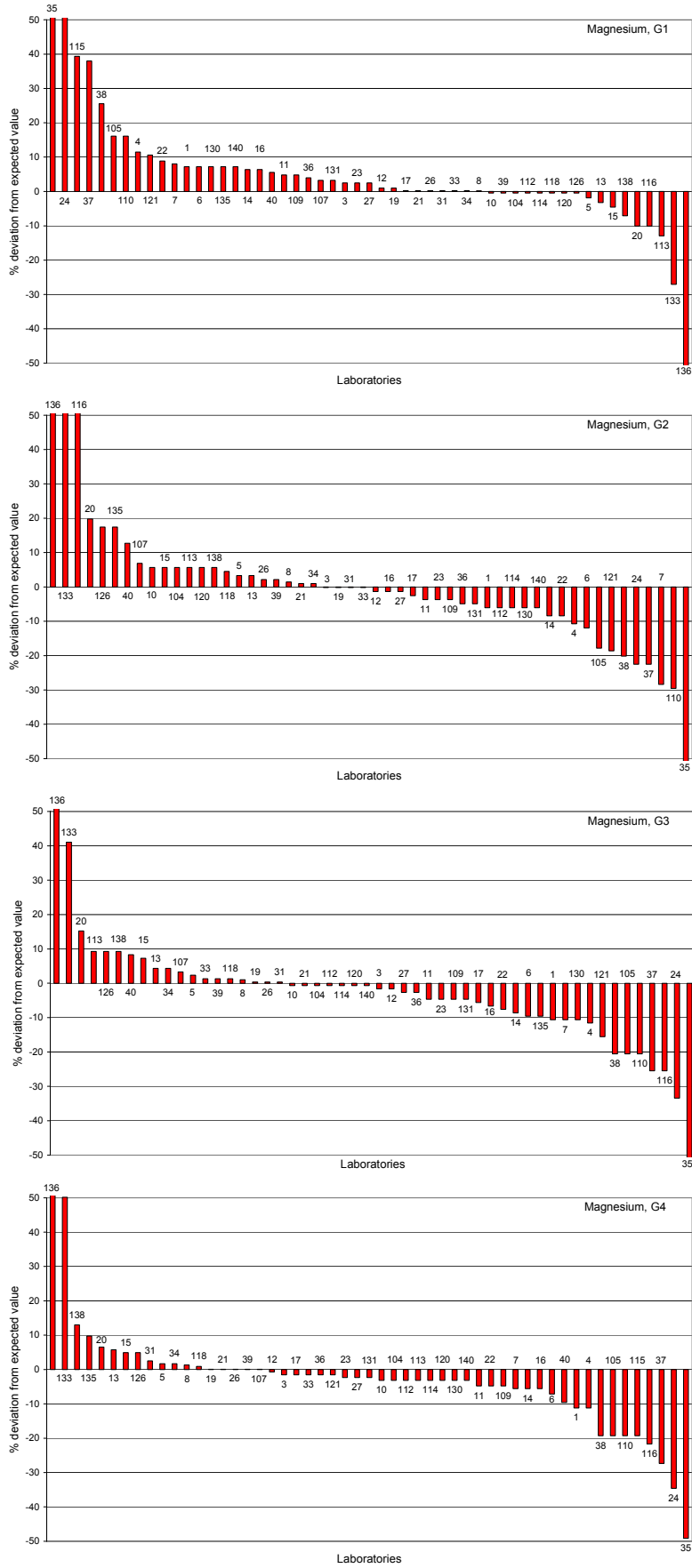


Figure 12: Percent deviation from theoretical value for magnesium.

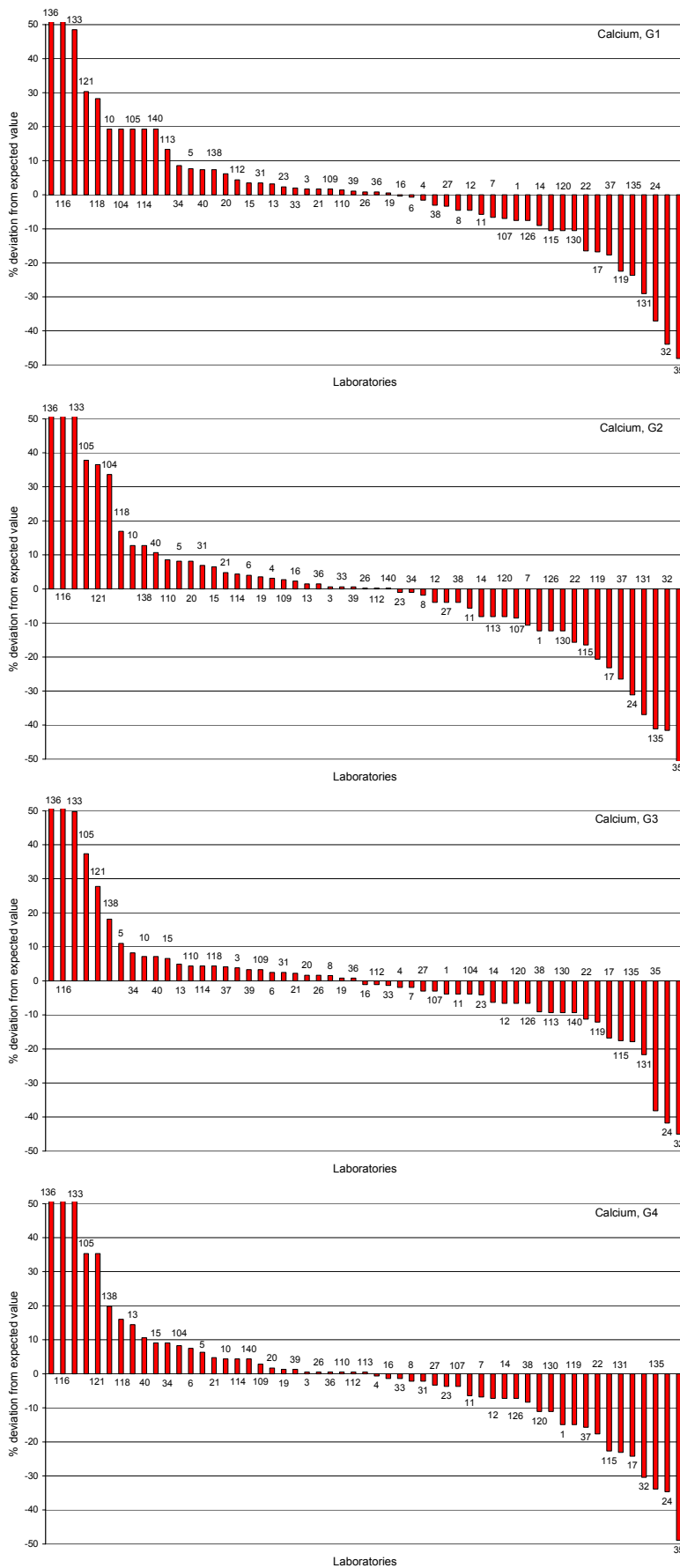


Figure 13: Percent deviation from theoretical value for calcium.

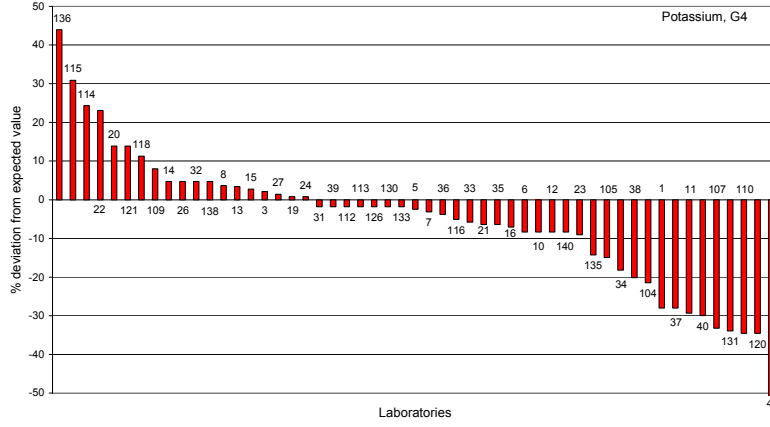
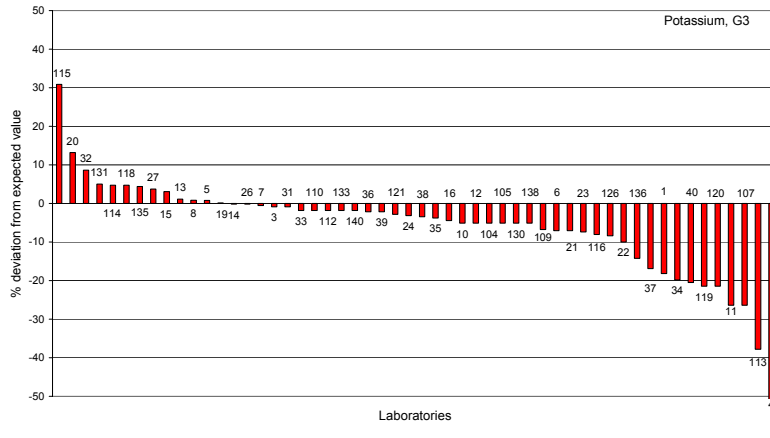
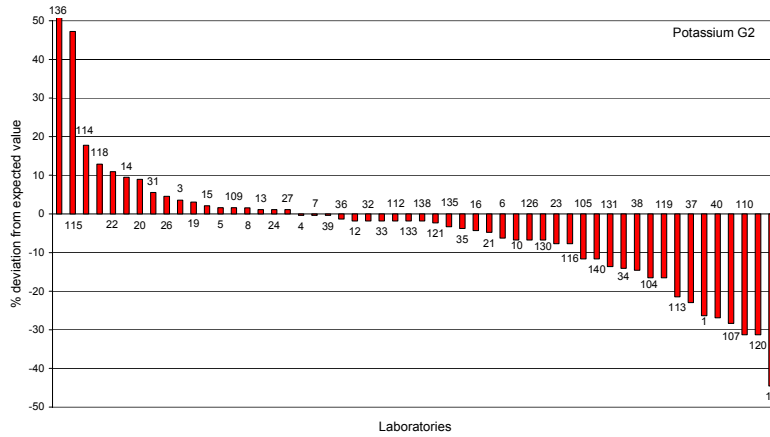
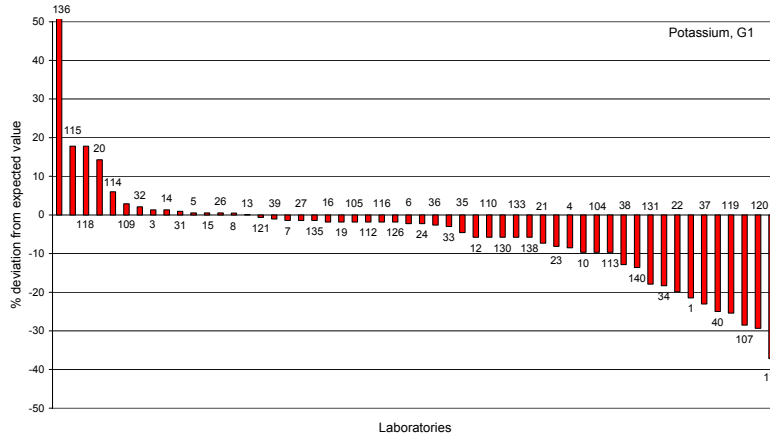


Figure 14: Percent deviation from theoretical value for potassium.

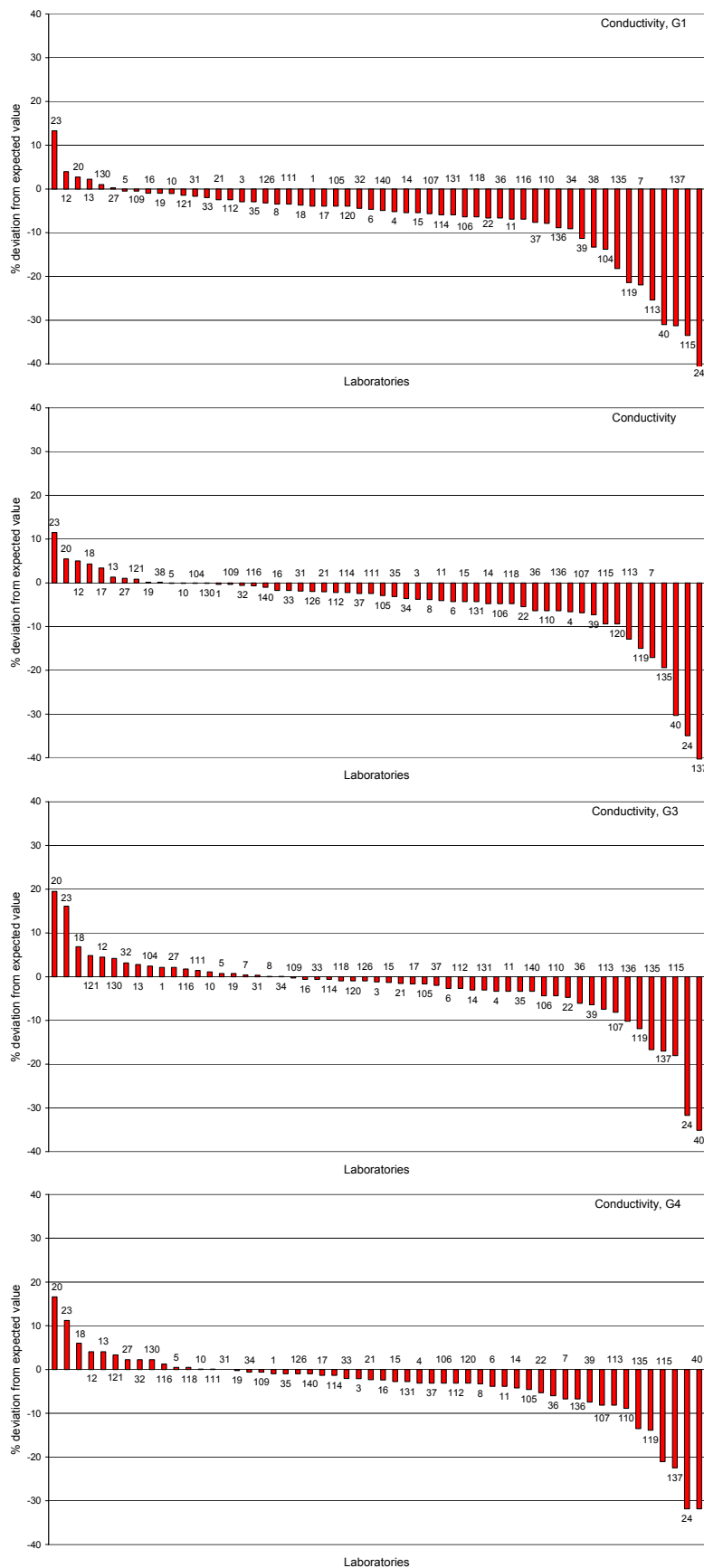


Figure 15: Percent deviation from theoretical value for conductivity.

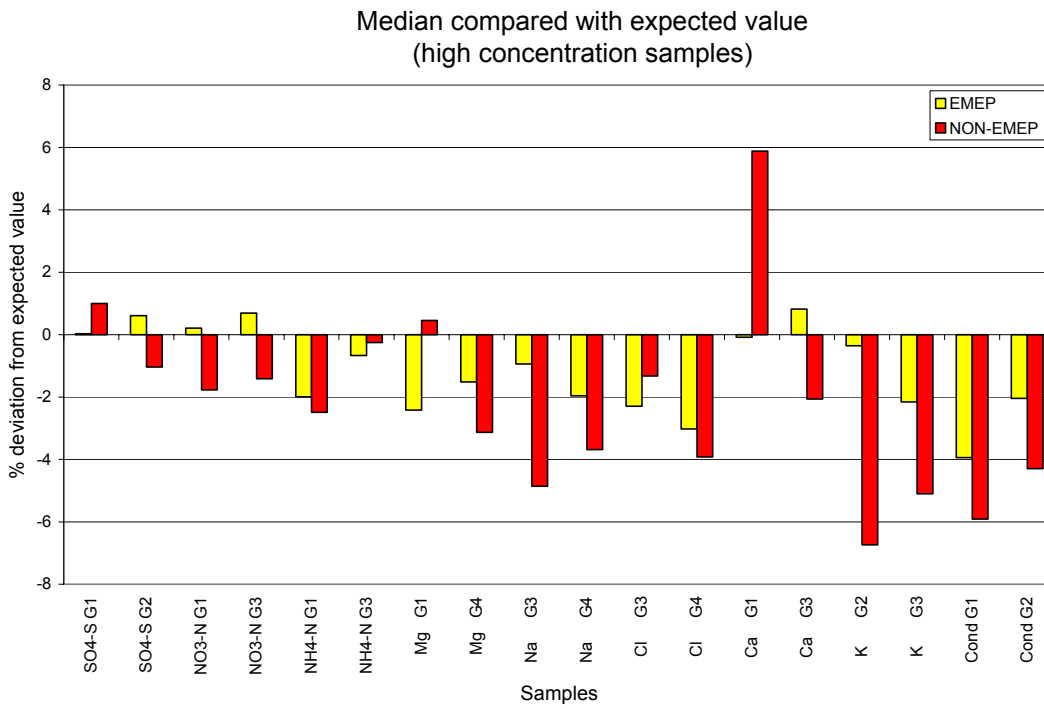
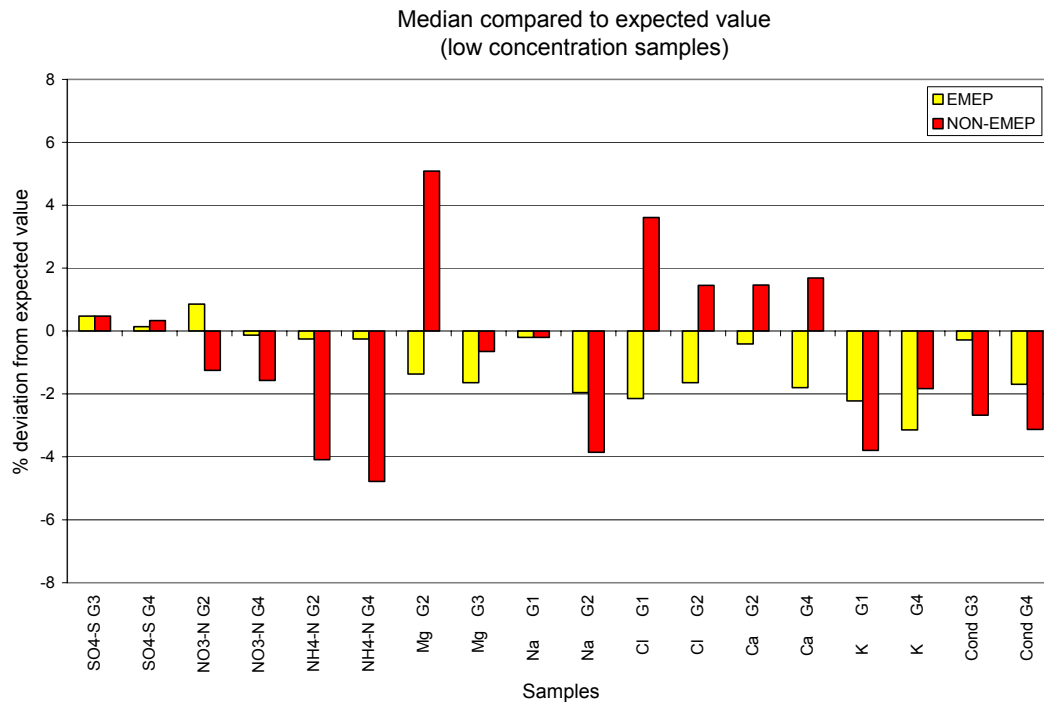


Figure 16: The median compared to theoretical value.