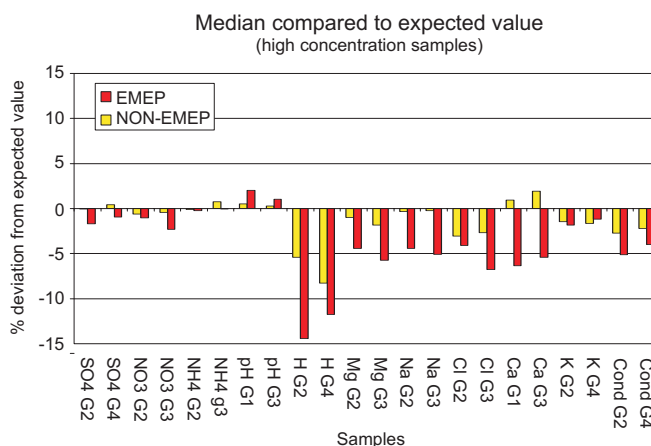
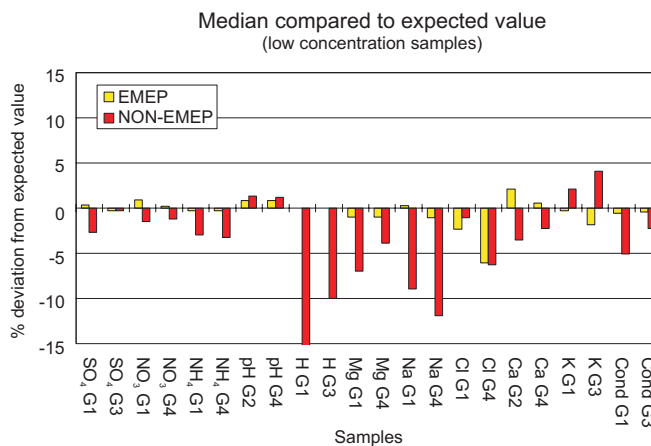


The eighteenth intercomparison of analytical methods within EMEP

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

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

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The eighteenth intercomparison of analytical methods within EMEP

1. Introduction

32 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 1977, 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 seventeen 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).

This report gives the results of the eighteenth interlaboratory test.

2. Organisation of the intercomparison

The samples for the eighteenth intercomparison (see Table 1) were prepared and distributed to 65 laboratories in July 2000. 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 nineteen laboratories within the measurement programme ICP-Forest and four laboratories participating in various other measurement programmes were invited to participate in the eighteenth intercomparison.

Most of the laboratories had returned their results to the CCC within one month after the deadline given as 1 October 2000. A total of 53 laboratories have returned their results. This includes 34 EMEP-laboratories, 15 ICP-Forest laboratories and four 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. More than two month after deadline laboratory 19 reported new results after reanalysing the samples. These new results are not presented in this report. Generally, results from reanalysis of the samples reported after the release of the expected values are not accepted. However, the new results from laboratory 19 are commented in chapter 4.

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 Table 17.

3. Treatment of the data

The data reported from the participants are presented in Tables 3–16 and in Figures 1–11.

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. Figures 1–10 are showing the relative deviation from expected value for the different laboratories. There is one plot for each single sample.

Figure 11 is showing medians compared to expected value for the results reported by EMEP-laboratories and the other participating laboratories, respectively.

4. Results

Four precipitation samples were distributed and 2026 single results from 52 laboratories were reported. 33 of the reporting laboratories are within EMEP. Most of these laboratories now perform the full precipitation programme in EMEP.

4.1 Sulphate

The results from the determination of sulphate are given in Table 3 and in Figure 1. Laboratory 7 reports two outliers, laboratory 108 reports three outliers, laboratory 18 reports four outliers, laboratories 107, 122 and 39 report one outlier each. The relative standard deviation is in the region of (4.8–10.7)% when outliers are excluded.

Four laboratories report results deviating between 10–20% from expected value and seven laboratories report values that deviate more than 20% from expected value. Out of the nine laboratories that report result more than 10% away from the expected value, six laboratories use other techniques than ion chromatography.

New, improved results are reported by laboratory 19. The new values deviates from expected value by abs (1.4–2.7)%.

4.2 Nitrate

In Table 4 and Figure 2, the results from the determination of nitrate are shown. Laboratories 37, 39 and 114 report one outlier, laboratories 24 and 40 report two outliers, while laboratories 18 and 119 report three outliers each. The relative standard deviation is (2.9–5.2)% when outliers are excluded.

Seven laboratories report results deviating more than 10% from the expected value, while five laboratories report values more than 20% away from expected value. Out of eight laboratories reporting result more than 10% away from the expected value, six laboratories are within the EMEP network.

New, improved results are reported by laboratory 19 for both high-concentration samples and one of the low-concentration samples. The new values deviates from expected value by (0–1.7)%.

4.3 Ammonium

The results from the determination of ammonium are shown in Table 5 and Figure 3. Laboratory 37 reports one outlier, while the laboratories 40 and 103 report four outliers each. The relative standard deviation is (6.2–8.8)%.

Seven laboratories report results that deviate between 10% and 20% from the expected value. Five laboratories report results more than 20% away from expected value.

4.4 pH and strong acid

Table 6 and Figure 4 shows the results of the pH measurements and Tables 7a and 7b show the determination of strong acid. 52 laboratories reported pH-values, while only 2 laboratories reported titrated concentrations of strong acid.

In Table 7a the reported pH-data shown in table 6 are recalculated to $[H^+]$ to obtain realistic standard deviation values.

Laboratory 105 reports four outliers, laboratory 40 reports three outliers and laboratories 107, 108, 115 and 120 report one outlier each.

Sixteen laboratories report values that deviate more than 0.2 pH-units from expected value.

Only two laboratories report results for titrated acidity (see Table 7b).

4.5 Chloride

Table 8 and Figure 5 shows the results from the chloride determination. Laboratory 105 reports three outliers, laboratories 19 and 40 report two outliers each, while laboratories 24 and 37 report one outlier each. The relative standard deviation is (8.2–21.3)% when outliers are excluded.

22 laboratories report results between 10% and 20% away from the expected value. 18 laboratories report results more than 20% away from expected value.

New results are reported by laboratory 19. The results reported for the low concentration samples deviates 17.6–18.2% from expected value. The originally reported results were unused. The reported results for the high concentration samples deviates 6.6–10.2% from expected value.

4.6 Sodium

Table 9 and Figure 6 shows the results from determination of sodium. Laboratories 40 and 105 report too low values for all four samples. Laboratory 116 reports too low value for three samples. Laboratory 22, 37 and 108 report one outlier each. The relative standard deviation is (9.5–16.8)% when outliers are excluded.

Nineteen laboratories report results between 10–20% away from the expected value. Thirteen laboratories report results that deviate more than 20% from expected value.

4.7 Magnesium

The results from determination of magnesium are shown in Table 10 and Figure 7. Laboratory 33 reports too high results for all four samples and laboratory 108 reports two values that deviates more than two standard deviations from the mean value. The relative standard deviation is (9.4–14.6)% with all outliers excluded.

Seven laboratories report values between 10 and 20% away from the expected value. Seven laboratories report results that deviate more than 20% from expected value.

4.8 Calcium

Table 11 and Figure 8 show the results from determination of calcium. Laboratory 104 reports too high results for all four samples. Laboratories 34 and 113 report two outlying results, while laboratories 32 and 108 report one outlier each. The relative standard deviation is (10.3–13.8)% with all outliers excluded.

Twenty-four laboratories report values between (10–20)% away from the expected value, while fourteen laboratories report values that deviate more than 20% from expected value.

4.9 Potassium

The results from the determination of potassium are presented in Table 12 and Figure 9. Laboratory 34 reports too high values for all four samples. Laboratory 10 and 104 report too high values for one sample each. The standard deviation is (15–32) % when outliers are excluded.

Twenty-one laboratories report values between 10–20% and the same number of laboratories report results that deviate more than 20% from the expected value.

4.10 Conductivity and ion balance

In Table 13 and Figure 10 the results from the conductivity measurements are given. Laboratory 12 reports too high results for all four samples. Laboratories 22

and 119 report too low values for three samples, while laboratory 18 reports one value more than 2 standard deviations away from the mean value.

The standard deviation is in the range (4.2–8.9)%, which is about the same as in earlier intercomparisons. Twenty-three values (11.5%) are reported between (10-20)% from expected value, while eight reported values (4%) deviate more than 20%. This is slightly better than earlier intercomparisons.

Conductivity measurements are mainly used in EMEP for quality control reasons by comparing measured with calculated values when all main ions in the precipitation have been measured. In Table 14 the ratios of the measured to the calculated conductivities (from the reported results) are given. As can be seen from inspecting these values, the laboratories 23, 38, 39, 105, 107, 108, 115 and 120 have ratios that are far from 1.

In Table 15 the ratios of equivalent concentration of anions to equivalent concentration cations are shown. This ratio may be used in the quality control for those laboratories that determine all the main components. Laboratories 7, 10, 19, 22, 23, 103, 105, 107, 115 and 120 have ratios that are far from 1.

5. Conclusions

A total of 53 laboratories participated in the intercomparison. 32 of these laboratories are within the EMEP network.

For all the samples analysed the deviations from theoretical value are calculated. Figure 11 shows the median values compared to the theoretical value for all the parameters. The median deviations for the EMEP laboratories (exclusive the median values for H^+) are below 6.1% for the low-concentration samples and below 3% for the high-concentration samples, respectively. The median deviations for the other participating laboratories (exclusive the median values for H^+) are below 12% for the low-concentration samples and below 6.7% for the high-concentration samples, respectively.

Like in the earlier intercomparisons outliers are defined as values that deviates more than two standard deviations from the mean value. Outliers occurs for almost all samples and parameters. Out of a total of 2026 single results 111 are identified as outliers. This is 5.5% of the reported data, which is about the same as in earlier intercomparisons. However, only four laboratories are responsible for reporting 45.9% of the outliers. These are laboratories 18, 40, 105 and 108, which have eight or more outlying results.

A total of twenty-nine laboratories do not report any outliers. Twenty of these are laboratories within the EMEP network. This is an improvement compared to earlier intercomparisons.

It should be mentioned that some laboratories are using analytical methods that are outdated and not suitable for doing analysis in the concentration levels experienced in EMEP. The main reason these methods still are in use is most

often lack of funding for new and more up-to-date equipment in countries with economy in transition.

In Table 16 the ratio of the median value to expected value for all the parameters in all the samples are shown. As can be seen from this table, all the parameters except from pH and chloride have median values that are in good accordance with the theoretical value.

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Appendix 1

Tables

Table 1: Samples distributed for the sixteenth interlaboratory test.

G.	4 synthetic precipitation samples, containing SO_4^{2-} , NO_3^- , NH_4^+ , H^+ , Na^+ , Mg^{2+} , Cl^- , Ca^{2+} and K^+ .
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Table 2a: EMEP laboratories participating in the eighteenth laboratory intercomparison. The number in front of the names are used in tables and figures.

Austria	(1)	Umweltbundesamt Zweigstelle Sud, Klagenfurt
Canada	(26)	Atmospheric Environment Service, Toronto
Czech Republic	(3)	Czech Hydrometeorological Institute, Praha
Denmark	(4)	National Environmental Research Institute. Air Pollution Laboratory
Estonia	(38)	Estonian Environmental Research Centre, Tallinn
European Commission	(30)	Joint Research Centre, Ispra, Environment Institute
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)	Meteorological Service, Dublin
Ireland	(37)	Environmental Protection Agency, Dublin
Italy	(13)	Istituto Inquinamento Atmosferico of C.N.R.
Latvia	(33)	Air Pollution Observation Laboratory
Lithuania	(32)	Institute of Physics
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
Yugoslavia	(24)	Federal Hydrometeorological Institute, Belgrade

Table 2b: Participating laboratories outside the EMEP network

Bulgaria	(103)	Forestry University
Germany	(104)	Hessige Landwirtschaftliche
Germany	(105)	Universität des Saarlandes
Sweden	(106)	IVL Svenska Miljöinstitutet AB, Aneboda
Finland	(107)	The Finnish Forest Institute
Germany	(108)	Institut f. Bundenkunde und Standortlehre, TU Dresden
Germany	(110)	Thüringer Landesanstalt für Landwirtschaft (TTL)
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	(117)	Sächsische Landesanstalt für Forsten
Germany	(118)	Forstliche Versuchs- und Forschungsanstalt
Germany	(119)	Landesumweltamt (LUA)
Germany	(120)	Landwirtschaftliche Untersuchungs- und Forschungsanstalt (LUFA)
Germany	(121)	Landesamt für Natur und Umwelt
Russia	(122)	Institut of Global Climate and Ecology

Table 3: Analytical results for sulphate in precipitations samples.

<p>SULPHATE SAMPLE NO.: G1 THEORETICAL VALUE 0.822 UNIT: µg S/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 50 ARITHMETIC MEAN VALUE: 0.824 MEDIAN: 0.821 STANDARD DEVIATION: 0.173 REL. ST. DEVIATION (%): 21.023</p> <p>RUN 2: NUMBER OF LABORATORIES: 46 ARITHMETIC MEAN VALUE: 0.822 MEDIAN: 0.821 STANDARD DEVIATION: 0.040 REL. ST. DEVIATION (%): 4.821</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>18</td><td>1.635</td><td>UNUSED</td><td>6</td><td>0.820</td></tr> <tr><td>7</td><td>1.201</td><td>UNUSED</td><td>12</td><td>0.820</td></tr> <tr><td>39</td><td>0.967</td><td></td><td>110</td><td>0.820</td></tr> <tr><td>24</td><td>0.916</td><td></td><td>117</td><td>0.820</td></tr> <tr><td>53</td><td>0.885</td><td></td><td>8</td><td>0.818</td></tr> <tr><td>54</td><td>0.865</td><td></td><td>19</td><td>0.817</td></tr> <tr><td>112</td><td>0.860</td><td></td><td>36</td><td>0.817</td></tr> <tr><td>13</td><td>0.850</td><td></td><td>26</td><td>0.815</td></tr> <tr><td>23</td><td>0.842</td><td></td><td>3</td><td>0.814</td></tr> <tr><td>1</td><td>0.840</td><td></td><td>4</td><td>0.814</td></tr> <tr><td>30</td><td>0.840</td><td></td><td>14</td><td>0.811</td></tr> <tr><td>105</td><td>0.839</td><td></td><td>31</td><td>0.806</td></tr> <tr><td>21</td><td>0.838</td><td></td><td>114</td><td>0.800</td></tr> <tr><td>11</td><td>0.835</td><td></td><td>120</td><td>0.800</td></tr> <tr><td>16</td><td>0.834</td><td></td><td>15</td><td>0.790</td></tr> <tr><td>111</td><td>0.832</td><td></td><td>115</td><td>0.790</td></tr> <tr><td>5</td><td>0.830</td><td></td><td>20</td><td>0.787</td></tr> <tr><td>10</td><td>0.830</td><td></td><td>116</td><td>0.786</td></tr> <tr><td>33</td><td>0.830</td><td></td><td>121</td><td>0.784</td></tr> <tr><td>38</td><td>0.830</td><td></td><td>32</td><td>0.762</td></tr> <tr><td>119</td><td>0.830</td><td></td><td>118</td><td>0.750</td></tr> <tr><td>17</td><td>0.826</td><td></td><td>122</td><td>0.750</td></tr> <tr><td>27</td><td>0.825</td><td></td><td>22</td><td>0.728</td></tr> <tr><td>34</td><td>0.824</td><td></td><td>107</td><td>0.283 UNUSED</td></tr> <tr><td>37</td><td>0.822</td><td></td><td>108</td><td>0.270 UNUSED</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	18	1.635	UNUSED	6	0.820	7	1.201	UNUSED	12	0.820	39	0.967		110	0.820	24	0.916		117	0.820	53	0.885		8	0.818	54	0.865		19	0.817	112	0.860		36	0.817	13	0.850		26	0.815	23	0.842		3	0.814	1	0.840		4	0.814	30	0.840		14	0.811	105	0.839		31	0.806	21	0.838		114	0.800	11	0.835		120	0.800	16	0.834		15	0.790	111	0.832		115	0.790	5	0.830		20	0.787	10	0.830		116	0.786	33	0.830		121	0.784	38	0.830		32	0.762	119	0.830		118	0.750	17	0.826		122	0.750	27	0.825		22	0.728	34	0.824		107	0.283 UNUSED	37	0.822		108	0.270 UNUSED	<p>SULPHATE SAMPLE NO.: G2 THEORETICAL VALUE 1.940 UNIT: µg S/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 50 ARITHMETIC MEAN VALUE: 1.963 MEDIAN: 1.935 STANDARD DEVIATION: 0.286 REL. ST. DEVIATION (%): 14.586</p> <p>RUN 2: NUMBER OF LABORATORIES: 47 ARITHMETIC MEAN VALUE: 1.932 MEDIAN: 1.933 STANDARD DEVIATION: 0.132 REL. ST. DEVIATION (%): 6.827</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>18</td><td>3.488</td><td>UNUSED</td><td>3</td><td>1.933</td></tr> <tr><td>7</td><td>2.601</td><td>UNUSED</td><td>107</td><td>1.930</td></tr> <tr><td>17</td><td>2.350</td><td></td><td>31</td><td>1.926</td></tr> <tr><td>39</td><td>2.307</td><td></td><td>14</td><td>1.924</td></tr> <tr><td>24</td><td>2.164</td><td></td><td>16</td><td>1.921</td></tr> <tr><td>115</td><td>2.070</td><td></td><td>1</td><td>1.920</td></tr> <tr><td>33</td><td>2.020</td><td></td><td>114</td><td>1.920</td></tr> <tr><td>104</td><td>2.020</td><td></td><td>4</td><td>1.918</td></tr> <tr><td>21</td><td>2.013</td><td></td><td>8</td><td>1.916</td></tr> <tr><td>34</td><td>2.010</td><td></td><td>26</td><td>1.913</td></tr> <tr><td>38</td><td>2.000</td><td></td><td>105</td><td>1.908</td></tr> <tr><td>30</td><td>1.980</td><td></td><td>118</td><td>1.890</td></tr> <tr><td>13</td><td>1.979</td><td></td><td>11</td><td>1.880</td></tr> <tr><td>10</td><td>1.970</td><td></td><td>15</td><td>1.830</td></tr> <tr><td>111</td><td>1.970</td><td></td><td>20</td><td>1.824</td></tr> <tr><td>112</td><td>1.970</td><td></td><td>117</td><td>1.820</td></tr> <tr><td>119</td><td>1.970</td><td></td><td>32</td><td>1.814</td></tr> <tr><td>36</td><td>1.967</td><td></td><td>120</td><td>1.810</td></tr> <tr><td>23</td><td>1.962</td><td></td><td>121</td><td>1.800</td></tr> <tr><td>37</td><td>1.948</td><td></td><td>19</td><td>1.798</td></tr> <tr><td>27</td><td>1.947</td><td></td><td>116</td><td>1.794</td></tr> <tr><td>6</td><td>1.940</td><td></td><td>22</td><td>1.770</td></tr> <tr><td>12</td><td>1.940</td><td></td><td>103</td><td>1.739</td></tr> <tr><td>110</td><td>1.940</td><td></td><td>122</td><td>1.510</td></tr> <tr><td>5</td><td>1.937</td><td></td><td>108</td><td>1.300 UNUSED</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	18	3.488	UNUSED	3	1.933	7	2.601	UNUSED	107	1.930	17	2.350		31	1.926	39	2.307		14	1.924	24	2.164		16	1.921	115	2.070		1	1.920	33	2.020		114	1.920	104	2.020		4	1.918	21	2.013		8	1.916	34	2.010		26	1.913	38	2.000		105	1.908	30	1.980		118	1.890	13	1.979		11	1.880	10	1.970		15	1.830	111	1.970		20	1.824	112	1.970		117	1.820	119	1.970		32	1.814	36	1.967		120	1.810	23	1.962		121	1.800	37	1.948		19	1.798	27	1.947		116	1.794	6	1.940		22	1.770	12	1.940		103	1.739	110	1.940		122	1.510	5	1.937		108	1.300 UNUSED
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<p>SULPHATE SAMPLE NO.: G3 THEORETICAL VALUE 1.040 UNIT: µg S/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 50 ARITHMETIC MEAN VALUE: 1.071 MEDIAN: 1.040 STANDARD DEVIATION: 0.290 REL. ST. DEVIATION (%): 27.034</p> <p>RUN 2: NUMBER OF LABORATORIES: 48 ARITHMETIC MEAN VALUE: 1.055 MEDIAN: 1.040 STANDARD DEVIATION: 0.113 REL. ST. DEVIATION (%): 10.720</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>18</td><td>2.725</td><td>UNUSED</td><td>12</td><td>1.040</td></tr> <tr><td>7</td><td>1.565</td><td></td><td>110</td><td>1.040</td></tr> <tr><td>122</td><td>1.470</td><td></td><td>14</td><td>1.039</td></tr> <tr><td>39</td><td>1.202</td><td></td><td>105</td><td>1.033</td></tr> <tr><td>17</td><td>1.157</td><td></td><td>24</td><td>1.032</td></tr> <tr><td>115</td><td>1.100</td><td></td><td>36</td><td>1.032</td></tr> <tr><td>13</td><td>1.086</td><td></td><td>31</td><td>1.030</td></tr> <tr><td>104</td><td>1.082</td><td></td><td>33</td><td>1.030</td></tr> <tr><td>30</td><td>1.070</td><td></td><td>26</td><td>1.026</td></tr> <tr><td>111</td><td>1.070</td><td></td><td>8</td><td>1.025</td></tr> <tr><td>21</td><td>1.067</td><td></td><td>4</td><td>1.024</td></tr> <tr><td>16</td><td>1.066</td><td></td><td>15</td><td>1.020</td></tr> <tr><td>11</td><td>1.061</td><td></td><td>117</td><td>1.020</td></tr> <tr><td>1</td><td>1.060</td><td></td><td>3</td><td>1.019</td></tr> <tr><td>10</td><td>1.060</td><td></td><td>114</td><td>1.010</td></tr> <tr><td>38</td><td>1.060</td><td></td><td>19</td><td>1.008</td></tr> <tr><td>112</td><td>1.060</td><td></td><td>116</td><td>0.986</td></tr> <tr><td>119</td><td>1.060</td><td></td><td>20</td><td>0.981</td></tr> <tr><td>23</td><td>1.059</td><td></td><td>120</td><td>0.980</td></tr> <tr><td>27</td><td>1.050</td><td></td><td>103</td><td>0.971</td></tr> <tr><td>107</td><td>1.050</td><td></td><td>32</td><td>0.957</td></tr> <tr><td>118</td><td>1.050</td><td></td><td>22</td><td>0.941</td></tr> <tr><td>5</td><td>1.047</td><td></td><td>121</td><td>0.921</td></tr> <tr><td>34</td><td>1.047</td><td></td><td>37</td><td>0.823</td></tr> <tr><td>6</td><td>1.040</td><td></td><td>108</td><td>0.200 UNUSED</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	18	2.725	UNUSED	12	1.040	7	1.565		110	1.040	122	1.470		14	1.039	39	1.202		105	1.033	17	1.157		24	1.032	115	1.100		36	1.032	13	1.086		31	1.030	104	1.082		33	1.030	30	1.070		26	1.026	111	1.070		8	1.025	21	1.067		4	1.024	16	1.066		15	1.020	11	1.061		117	1.020	1	1.060		3	1.019	10	1.060		114	1.010	38	1.060		19	1.008	112	1.060		116	0.986	119	1.060		20	0.981	23	1.059		120	0.980	27	1.050		103	0.971	107	1.050		32	0.957	118	1.050		22	0.941	5	1.047		121	0.921	34	1.047		37	0.823	6	1.040		108	0.200 UNUSED	<p>SULPHATE SAMPLE NO.: G4 THEORETICAL VALUE 1.780 UNIT: µg S/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 50 ARITHMETIC MEAN VALUE: 1.793 MEDIAN: 1.775 STANDARD DEVIATION: 0.268 REL. ST. DEVIATION (%): 14.918</p> <p>RUN 2: NUMBER OF LABORATORIES: 47 ARITHMETIC MEAN VALUE: 1.767 MEDIAN: 1.775 STANDARD DEVIATION: 0.124 REL. ST. DEVIATION (%): 7.014</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>18</td><td>3.006</td><td>UNUSED</td><td>31</td><td>1.775</td></tr> <tr><td>39</td><td>2.610</td><td>UNUSED</td><td>6</td><td>1.770</td></tr> <tr><td>7</td><td>2.316</td><td></td><td>12</td><td>1.770</td></tr> <tr><td>115</td><td>1.930</td><td></td><td>14</td><td>1.770</td></tr> <tr><td>33</td><td>1.890</td><td></td><td>105</td><td>1.769</td></tr> <tr><td>13</td><td>1.888</td><td></td><td>114</td><td>1.760</td></tr> <tr><td>104</td><td>1.859</td><td></td><td>118</td><td>1.760</td></tr> <tr><td>21</td><td>1.833</td><td></td><td>4</td><td>1.751</td></tr> <tr><td>24</td><td>1.832</td><td></td><td>1</td><td>1.750</td></tr> <tr><td>30</td><td>1.830</td><td></td><td>110</td><td>1.750</td></tr> <tr><td>16</td><td>1.821</td><td></td><td>8</td><td>1.749</td></tr> <tr><td>38</td><td>1.820</td><td></td><td>26</td><td>1.746</td></tr> <tr><td>34</td><td>1.810</td><td></td><td>11</td><td>1.734</td></tr> <tr><td>107</td><td>1.810</td><td></td><td>32</td><td>1.684</td></tr> <tr><td>119</td><td>1.810</td><td></td><td>20</td><td>1.671</td></tr> <tr><td>23</td><td>1.805</td><td></td><td>15</td><td>1.670</td></tr> <tr><td>36</td><td>1.804</td><td></td><td>19</td><td>1.659</td></tr> <tr><td>10</td><td>1.800</td><td></td><td>120</td><td>1.650</td></tr> <tr><td>111</td><td>1.800</td><td></td><td>117</td><td>1.640</td></tr> <tr><td>112</td><td>1.800</td><td></td><td>121</td><td>1.640</td></tr> <tr><td>27</td><td>1.786</td><td></td><td>103</td><td>1.639</td></tr> <tr><td>5</td><td>1.784</td><td></td><td>116</td><td>1.597</td></tr> <tr><td>17</td><td>1.784</td><td></td><td>22</td><td>1.578</td></tr> <tr><td>37</td><td>1.780</td><td></td><td>108</td><td>1.390</td></tr> <tr><td>3</td><td>1.775</td><td></td><td>122</td><td>1.000 UNUSED</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	18	3.006	UNUSED	31	1.775	39	2.610	UNUSED	6	1.770	7	2.316		12	1.770	115	1.930		14	1.770	33	1.890		105	1.769	13	1.888		114	1.760	104	1.859		118	1.760	21	1.833		4	1.751	24	1.832		1	1.750	30	1.830		110	1.750	16	1.821		8	1.749	38	1.820		26	1.746	34	1.810		11	1.734	107	1.810		32	1.684	119	1.810		20	1.671	23	1.805		15	1.670	36	1.804		19	1.659	10	1.800		120	1.650	111	1.800		117	1.640	112	1.800		121	1.640	27	1.786		103	1.639	5	1.784		116	1.597	17	1.784		22	1.578	37	1.780		108	1.390	3	1.775		122	1.000 UNUSED
18	2.725	UNUSED	12	1.040																																																																																																																																																																																																																																																							
7	1.565		110	1.040																																																																																																																																																																																																																																																							
122	1.470		14	1.039																																																																																																																																																																																																																																																							
39	1.202		105	1.033																																																																																																																																																																																																																																																							
17	1.157		24	1.032																																																																																																																																																																																																																																																							
115	1.100		36	1.032																																																																																																																																																																																																																																																							
13	1.086		31	1.030																																																																																																																																																																																																																																																							
104	1.082		33	1.030																																																																																																																																																																																																																																																							
30	1.070		26	1.026																																																																																																																																																																																																																																																							
111	1.070		8	1.025																																																																																																																																																																																																																																																							
21	1.067		4	1.024																																																																																																																																																																																																																																																							
16	1.066		15	1.020																																																																																																																																																																																																																																																							
11	1.061		117	1.020																																																																																																																																																																																																																																																							
1	1.060		3	1.019																																																																																																																																																																																																																																																							
10	1.060		114	1.010																																																																																																																																																																																																																																																							
38	1.060		19	1.008																																																																																																																																																																																																																																																							
112	1.060		116	0.986																																																																																																																																																																																																																																																							
119	1.060		20	0.981																																																																																																																																																																																																																																																							
23	1.059		120	0.980																																																																																																																																																																																																																																																							
27	1.050		103	0.971																																																																																																																																																																																																																																																							
107	1.050		32	0.957																																																																																																																																																																																																																																																							
118	1.050		22	0.941																																																																																																																																																																																																																																																							
5	1.047		121	0.921																																																																																																																																																																																																																																																							
34	1.047		37	0.823																																																																																																																																																																																																																																																							
6	1.040		108	0.200 UNUSED																																																																																																																																																																																																																																																							
18	3.006	UNUSED	31	1.775																																																																																																																																																																																																																																																							
39	2.610	UNUSED	6	1.770																																																																																																																																																																																																																																																							
7	2.316		12	1.770																																																																																																																																																																																																																																																							
115	1.930		14	1.770																																																																																																																																																																																																																																																							
33	1.890		105	1.769																																																																																																																																																																																																																																																							
13	1.888		114	1.760																																																																																																																																																																																																																																																							
104	1.859		118	1.760																																																																																																																																																																																																																																																							
21	1.833		4	1.751																																																																																																																																																																																																																																																							
24	1.832		1	1.750																																																																																																																																																																																																																																																							
30	1.830		110	1.750																																																																																																																																																																																																																																																							
16	1.821		8	1.749																																																																																																																																																																																																																																																							
38	1.820		26	1.746																																																																																																																																																																																																																																																							
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107	1.810		32	1.684																																																																																																																																																																																																																																																							
119	1.810		20	1.671																																																																																																																																																																																																																																																							
23	1.805		15	1.670																																																																																																																																																																																																																																																							
36	1.804		19	1.659																																																																																																																																																																																																																																																							
10	1.800		120	1.650																																																																																																																																																																																																																																																							
111	1.800		117	1.640																																																																																																																																																																																																																																																							
112	1.800		121	1.640																																																																																																																																																																																																																																																							
27	1.786		103	1.639																																																																																																																																																																																																																																																							
5	1.784		116	1.597																																																																																																																																																																																																																																																							
17	1.784		22	1.578																																																																																																																																																																																																																																																							
37	1.780		108	1.390																																																																																																																																																																																																																																																							
3	1.775		122	1.000 UNUSED																																																																																																																																																																																																																																																							

Table 4: Analytical results for nitrate in precipitations samples.

<p>NITRATE SAMPLE NO.: G1 THEORETICAL VALUE 0.355 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 51 ARITHMETIC MEAN VALUE: 0.356 MEDIAN: 0.357 STANDARD DEVIATION: 0.034 REL. ST. DEVIATION (%): 9.554</p> <p>RUN 2: NUMBER OF LABORATORIES: 48 ARITHMETIC MEAN VALUE: 0.357 MEDIAN: 0.358 STANDARD DEVIATION: 0.019 REL. ST. DEVIATION (%): 5.260</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>40</td><td>0.518</td><td>UNUSED</td><td>27</td><td>0.357</td></tr> <tr><td>24</td><td>0.416</td><td></td><td>107</td><td>0.357</td></tr> <tr><td>11</td><td>0.410</td><td></td><td>16</td><td>0.352</td></tr> <tr><td>39</td><td>0.400</td><td></td><td>37</td><td>0.352</td></tr> <tr><td>4</td><td>0.378</td><td></td><td>14</td><td>0.350</td></tr> <tr><td>17</td><td>0.378</td><td></td><td>15</td><td>0.350</td></tr> <tr><td>19</td><td>0.375</td><td></td><td>112</td><td>0.350</td></tr> <tr><td>1</td><td>0.370</td><td></td><td>113</td><td>0.350</td></tr> <tr><td>10</td><td>0.370</td><td></td><td>31</td><td>0.348</td></tr> <tr><td>38</td><td>0.370</td><td></td><td>34</td><td>0.348</td></tr> <tr><td>13</td><td>0.366</td><td></td><td>103</td><td>0.346</td></tr> <tr><td>105</td><td>0.365</td><td></td><td>36</td><td>0.345</td></tr> <tr><td>5</td><td>0.363</td><td></td><td>3</td><td>0.341</td></tr> <tr><td>6</td><td>0.360</td><td></td><td>12</td><td>0.340</td></tr> <tr><td>26</td><td>0.360</td><td></td><td>33</td><td>0.340</td></tr> <tr><td>30</td><td>0.360</td><td></td><td>104</td><td>0.340</td></tr> <tr><td>114</td><td>0.360</td><td></td><td>32</td><td>0.339</td></tr> <tr><td>115</td><td>0.360</td><td></td><td>111</td><td>0.339</td></tr> <tr><td>117</td><td>0.360</td><td></td><td>116</td><td>0.339</td></tr> <tr><td>118</td><td>0.360</td><td></td><td>7</td><td>0.331</td></tr> <tr><td>120</td><td>0.360</td><td></td><td>110</td><td>0.330</td></tr> <tr><td>8</td><td>0.359</td><td></td><td>22</td><td>0.327</td></tr> <tr><td>20</td><td>0.359</td><td></td><td>108</td><td>0.320</td></tr> <tr><td>23</td><td>0.358</td><td></td><td>119</td><td>0.280</td></tr> <tr><td>121</td><td>0.358</td><td></td><td>18</td><td>0.259</td></tr> <tr><td>21</td><td>0.357</td><td></td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	40	0.518	UNUSED	27	0.357	24	0.416		107	0.357	11	0.410		16	0.352	39	0.400		37	0.352	4	0.378		14	0.350	17	0.378		15	0.350	19	0.375		112	0.350	1	0.370		113	0.350	10	0.370		31	0.348	38	0.370		34	0.348	13	0.366		103	0.346	105	0.365		36	0.345	5	0.363		3	0.341	6	0.360		12	0.340	26	0.360		33	0.340	30	0.360		104	0.340	114	0.360		32	0.339	115	0.360		111	0.339	117	0.360		116	0.339	118	0.360		7	0.331	120	0.360		110	0.330	8	0.359		22	0.327	20	0.359		108	0.320	23	0.358		119	0.280	121	0.358		18	0.259	21	0.357				<p>NITRATE SAMPLE NO.: G2 THEORETICAL VALUE 0.889 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 51 ARITHMETIC MEAN VALUE: 0.877 MEDIAN: 0.880 STANDARD DEVIATION: 0.047 REL. ST. DEVIATION (%): 5.397</p> <p>RUN 2: NUMBER OF LABORATORIES: 46 ARITHMETIC MEAN VALUE: 0.881 MEDIAN: 0.880 STANDARD DEVIATION: 0.026 REL. ST. DEVIATION (%): 2.983</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>114</td><td>0.990</td><td>UNUSED</td><td>104</td><td>0.880</td></tr> <tr><td>39</td><td>0.987</td><td>UNUSED</td><td>107</td><td>0.880</td></tr> <tr><td>40</td><td>0.970</td><td></td><td>110</td><td>0.880</td></tr> <tr><td>38</td><td>0.920</td><td></td><td>118</td><td>0.880</td></tr> <tr><td>13</td><td>0.915</td><td></td><td>121</td><td>0.880</td></tr> <tr><td>117</td><td>0.910</td><td></td><td>8</td><td>0.879</td></tr> <tr><td>120</td><td>0.910</td><td></td><td>34</td><td>0.879</td></tr> <tr><td>20</td><td>0.904</td><td></td><td>7</td><td>0.875</td></tr> <tr><td>27</td><td>0.904</td><td></td><td>33</td><td>0.875</td></tr> <tr><td>115</td><td>0.900</td><td></td><td>14</td><td>0.874</td></tr> <tr><td>31</td><td>0.899</td><td></td><td>26</td><td>0.874</td></tr> <tr><td>4</td><td>0.898</td><td></td><td>3</td><td>0.869</td></tr> <tr><td>11</td><td>0.898</td><td></td><td>15</td><td>0.860</td></tr> <tr><td>17</td><td>0.898</td><td></td><td>108</td><td>0.860</td></tr> <tr><td>5</td><td>0.894</td><td></td><td>112</td><td>0.860</td></tr> <tr><td>36</td><td>0.894</td><td></td><td>32</td><td>0.857</td></tr> <tr><td>37</td><td>0.894</td><td></td><td>116</td><td>0.840</td></tr> <tr><td>1</td><td>0.890</td><td></td><td>22</td><td>0.837</td></tr> <tr><td>30</td><td>0.890</td><td></td><td>19</td><td>0.836</td></tr> <tr><td>113</td><td>0.890</td><td></td><td>23</td><td>0.833</td></tr> <tr><td>21</td><td>0.889</td><td></td><td>103</td><td>0.830</td></tr> <tr><td>16</td><td>0.887</td><td></td><td>111</td><td>0.830</td></tr> <tr><td>105</td><td>0.883</td><td></td><td>18</td><td>0.770</td></tr> <tr><td>6</td><td>0.880</td><td>UNUSED</td><td>119</td><td>0.730</td></tr> <tr><td>10</td><td>0.880</td><td>UNUSED</td><td>24</td><td>0.728</td></tr> <tr><td>12</td><td>0.880</td><td></td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	114	0.990	UNUSED	104	0.880	39	0.987	UNUSED	107	0.880	40	0.970		110	0.880	38	0.920		118	0.880	13	0.915		121	0.880	117	0.910		8	0.879	120	0.910		34	0.879	20	0.904		7	0.875	27	0.904		33	0.875	115	0.900		14	0.874	31	0.899		26	0.874	4	0.898		3	0.869	11	0.898		15	0.860	17	0.898		108	0.860	5	0.894		112	0.860	36	0.894		32	0.857	37	0.894		116	0.840	1	0.890		22	0.837	30	0.890		19	0.836	113	0.890		23	0.833	21	0.889		103	0.830	16	0.887		111	0.830	105	0.883		18	0.770	6	0.880	UNUSED	119	0.730	10	0.880	UNUSED	24	0.728	12	0.880			
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20	0.359		108	0.320																																																																																																																																																																																																																																																																	
23	0.358		119	0.280																																																																																																																																																																																																																																																																	
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117	0.910		8	0.879																																																																																																																																																																																																																																																																	
120	0.910		34	0.879																																																																																																																																																																																																																																																																	
20	0.904		7	0.875																																																																																																																																																																																																																																																																	
27	0.904		33	0.875																																																																																																																																																																																																																																																																	
115	0.900		14	0.874																																																																																																																																																																																																																																																																	
31	0.899		26	0.874																																																																																																																																																																																																																																																																	
4	0.898		3	0.869																																																																																																																																																																																																																																																																	
11	0.898		15	0.860																																																																																																																																																																																																																																																																	
17	0.898		108	0.860																																																																																																																																																																																																																																																																	
5	0.894		112	0.860																																																																																																																																																																																																																																																																	
36	0.894		32	0.857																																																																																																																																																																																																																																																																	
37	0.894		116	0.840																																																																																																																																																																																																																																																																	
1	0.890		22	0.837																																																																																																																																																																																																																																																																	
30	0.890		19	0.836																																																																																																																																																																																																																																																																	
113	0.890		23	0.833																																																																																																																																																																																																																																																																	
21	0.889		103	0.830																																																																																																																																																																																																																																																																	
16	0.887		111	0.830																																																																																																																																																																																																																																																																	
105	0.883		18	0.770																																																																																																																																																																																																																																																																	
6	0.880	UNUSED	119	0.730																																																																																																																																																																																																																																																																	
10	0.880	UNUSED	24	0.728																																																																																																																																																																																																																																																																	
12	0.880																																																																																																																																																																																																																																																																				
<p>NITRATE SAMPLE NO.: G3 THEORETICAL VALUE 0.783 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 51 ARITHMETIC MEAN VALUE: 0.766 MEDIAN: 0.780 STANDARD DEVIATION: 0.066 REL. ST. DEVIATION (%): 8.612</p> <p>RUN 2: NUMBER OF LABORATORIES: 50 ARITHMETIC MEAN VALUE: 0.774 MEDIAN: 0.780 STANDARD DEVIATION: 0.033 REL. ST. DEVIATION (%): 4.233</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>39</td><td>0.861</td><td></td><td>105</td><td>0.779</td></tr> <tr><td>13</td><td>0.825</td><td></td><td>22</td><td>0.778</td></tr> <tr><td>38</td><td>0.810</td><td></td><td>8</td><td>0.775</td></tr> <tr><td>120</td><td>0.810</td><td></td><td>23</td><td>0.775</td></tr> <tr><td>4</td><td>0.805</td><td></td><td>26</td><td>0.771</td></tr> <tr><td>17</td><td>0.805</td><td></td><td>12</td><td>0.770</td></tr> <tr><td>121</td><td>0.803</td><td></td><td>34</td><td>0.767</td></tr> <tr><td>117</td><td>0.800</td><td></td><td>104</td><td>0.765</td></tr> <tr><td>27</td><td>0.797</td><td></td><td>24</td><td>0.764</td></tr> <tr><td>11</td><td>0.796</td><td></td><td>3</td><td>0.763</td></tr> <tr><td>1</td><td>0.790</td><td></td><td>33</td><td>0.763</td></tr> <tr><td>10</td><td>0.790</td><td></td><td>107</td><td>0.762</td></tr> <tr><td>20</td><td>0.790</td><td></td><td>110</td><td>0.760</td></tr> <tr><td>30</td><td>0.790</td><td></td><td>118</td><td>0.760</td></tr> <tr><td>31</td><td>0.790</td><td></td><td>7</td><td>0.752</td></tr> <tr><td>114</td><td>0.790</td><td></td><td>32</td><td>0.750</td></tr> <tr><td>115</td><td>0.790</td><td></td><td>108</td><td>0.750</td></tr> <tr><td>5</td><td>0.787</td><td></td><td>116</td><td>0.750</td></tr> <tr><td>16</td><td>0.784</td><td></td><td>36</td><td>0.748</td></tr> <tr><td>21</td><td>0.784</td><td></td><td>19</td><td>0.745</td></tr> <tr><td>40</td><td>0.781</td><td></td><td>103</td><td>0.740</td></tr> <tr><td>6</td><td>0.780</td><td></td><td>111</td><td>0.728</td></tr> <tr><td>14</td><td>0.780</td><td></td><td>18</td><td>0.676</td></tr> <tr><td>15</td><td>0.780</td><td></td><td>119</td><td>0.650</td></tr> <tr><td>112</td><td>0.780</td><td></td><td>37</td><td>0.364</td></tr> <tr><td>113</td><td>0.780</td><td>UNUSED</td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	39	0.861		105	0.779	13	0.825		22	0.778	38	0.810		8	0.775	120	0.810		23	0.775	4	0.805		26	0.771	17	0.805		12	0.770	121	0.803		34	0.767	117	0.800		104	0.765	27	0.797		24	0.764	11	0.796		3	0.763	1	0.790		33	0.763	10	0.790		107	0.762	20	0.790		110	0.760	30	0.790		118	0.760	31	0.790		7	0.752	114	0.790		32	0.750	115	0.790		108	0.750	5	0.787		116	0.750	16	0.784		36	0.748	21	0.784		19	0.745	40	0.781		103	0.740	6	0.780		111	0.728	14	0.780		18	0.676	15	0.780		119	0.650	112	0.780		37	0.364	113	0.780	UNUSED			<p>NITRATE SAMPLE NO.: G4 THEORETICAL VALUE 0.476 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 51 ARITHMETIC MEAN VALUE: 0.475 MEDIAN: 0.474 STANDARD DEVIATION: 0.036 REL. ST. DEVIATION (%): 7.615</p> <p>RUN 2: NUMBER OF LABORATORIES: 47 ARITHMETIC MEAN VALUE: 0.475 MEDIAN: 0.474 STANDARD DEVIATION: 0.021 REL. ST. DEVIATION (%): 4.424</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>24</td><td>0.610</td><td>UNUSED</td><td>121</td><td>0.474</td></tr> <tr><td>40</td><td>0.571</td><td>UNUSED</td><td>14</td><td>0.473</td></tr> <tr><td>119</td><td>0.537</td><td></td><td>16</td><td>0.472</td></tr> <tr><td>120</td><td>0.520</td><td></td><td>107</td><td>0.472</td></tr> <tr><td>11</td><td>0.513</td><td></td><td>26</td><td>0.471</td></tr> <tr><td>112</td><td>0.510</td><td></td><td>6</td><td>0.470</td></tr> <tr><td>13</td><td>0.505</td><td></td><td>23</td><td>0.470</td></tr> <tr><td>31</td><td>0.497</td><td></td><td>118</td><td>0.470</td></tr> <tr><td>17</td><td>0.491</td><td></td><td>37</td><td>0.469</td></tr> <tr><td>1</td><td>0.490</td><td></td><td>36</td><td>0.465</td></tr> <tr><td>38</td><td>0.490</td><td></td><td>34</td><td>0.463</td></tr> <tr><td>105</td><td>0.486</td><td></td><td>32</td><td>0.461</td></tr> <tr><td>5</td><td>0.485</td><td></td><td>115</td><td>0.460</td></tr> <tr><td>20</td><td>0.482</td><td></td><td>3</td><td>0.458</td></tr> <tr><td>10</td><td>0.480</td><td></td><td>104</td><td>0.458</td></tr> <tr><td>12</td><td>0.480</td><td></td><td>110</td><td>0.450</td></tr> <tr><td>15</td><td>0.480</td><td></td><td>103</td><td>0.448</td></tr> <tr><td>27</td><td>0.480</td><td></td><td>7</td><td>0.446</td></tr> <tr><td>30</td><td>0.480</td><td></td><td>33</td><td>0.443</td></tr> <tr><td>113</td><td>0.480</td><td></td><td>111</td><td>0.442</td></tr> <tr><td>114</td><td>0.480</td><td></td><td>116</td><td>0.442</td></tr> <tr><td>117</td><td>0.480</td><td></td><td>22</td><td>0.441</td></tr> <tr><td>19</td><td>0.478</td><td></td><td>108</td><td>0.440</td></tr> <tr><td>21</td><td>0.475</td><td></td><td>119</td><td>0.390</td></tr> <tr><td>4</td><td>0.474</td><td>UNUSED</td><td>18</td><td>0.372</td></tr> <tr><td>8</td><td>0.474</td><td></td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	24	0.610	UNUSED	121	0.474	40	0.571	UNUSED	14	0.473	119	0.537		16	0.472	120	0.520		107	0.472	11	0.513		26	0.471	112	0.510		6	0.470	13	0.505		23	0.470	31	0.497		118	0.470	17	0.491		37	0.469	1	0.490		36	0.465	38	0.490		34	0.463	105	0.486		32	0.461	5	0.485		115	0.460	20	0.482		3	0.458	10	0.480		104	0.458	12	0.480		110	0.450	15	0.480		103	0.448	27	0.480		7	0.446	30	0.480		33	0.443	113	0.480		111	0.442	114	0.480		116	0.442	117	0.480		22	0.441	19	0.478		108	0.440	21	0.475		119	0.390	4	0.474	UNUSED	18	0.372	8	0.474			
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14	0.780		18	0.676																																																																																																																																																																																																																																																																	
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Table 5: Analytical results for ammonium in precipitations sample.

<p>AMMONIUM SAMPLE NO.: G1 THEORETICAL VALUE 0.261 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 0.258 MEDIAN: 0.257 STANDARD DEVIATION: 0.056 REL. ST. DEVIATION (%): 21.758</p> <p>RUN 2: NUMBER OF LABORATORIES: 50 ARITHMETIC MEAN VALUE: 0.256 MEDIAN: 0.257 STANDARD DEVIATION: 0.022 REL. ST. DEVIATION (%): 8.802</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>40</td><td>0.563</td><td>UNUSED</td><td>16</td><td>0.256</td></tr> <tr><td>37</td><td>0.299</td><td></td><td>34</td><td>0.256</td></tr> <tr><td>13</td><td>0.297</td><td></td><td>105</td><td>0.256</td></tr> <tr><td>110</td><td>0.290</td><td></td><td>121</td><td>0.256</td></tr> <tr><td>38</td><td>0.280</td><td></td><td>3</td><td>0.253</td></tr> <tr><td>113</td><td>0.280</td><td></td><td>118</td><td>0.253</td></tr> <tr><td>19</td><td>0.279</td><td></td><td>5</td><td>0.252</td></tr> <tr><td>33</td><td>0.278</td><td></td><td>36</td><td>0.252</td></tr> <tr><td>4</td><td>0.277</td><td></td><td>6</td><td>0.250</td></tr> <tr><td>8</td><td>0.272</td><td></td><td>111</td><td>0.250</td></tr> <tr><td>104</td><td>0.272</td><td></td><td>115</td><td>0.250</td></tr> <tr><td>39</td><td>0.271</td><td></td><td>116</td><td>0.250</td></tr> <tr><td>114</td><td>0.270</td><td></td><td>32</td><td>0.249</td></tr> <tr><td>117</td><td>0.270</td><td></td><td>107</td><td>0.248</td></tr> <tr><td>17</td><td>0.266</td><td></td><td>20</td><td>0.247</td></tr> <tr><td>24</td><td>0.264</td><td></td><td>14</td><td>0.246</td></tr> <tr><td>22</td><td>0.263</td><td></td><td>15</td><td>0.240</td></tr> <tr><td>26</td><td>0.262</td><td></td><td>27</td><td>0.240</td></tr> <tr><td>11</td><td>0.260</td><td></td><td>108</td><td>0.240</td></tr> <tr><td>23</td><td>0.260</td><td></td><td>119</td><td>0.240</td></tr> <tr><td>30</td><td>0.260</td><td></td><td>1</td><td>0.230</td></tr> <tr><td>31</td><td>0.260</td><td></td><td>112</td><td>0.220</td></tr> <tr><td>106</td><td>0.260</td><td></td><td>10</td><td>0.200</td></tr> <tr><td>122</td><td>0.260</td><td></td><td>120</td><td>0.190</td></tr> <tr><td>21</td><td>0.259</td><td></td><td>18</td><td>0.185</td></tr> <tr><td>7</td><td>0.258</td><td></td><td>103</td><td>0.053</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	40	0.563	UNUSED	16	0.256	37	0.299		34	0.256	13	0.297		105	0.256	110	0.290		121	0.256	38	0.280		3	0.253	113	0.280		118	0.253	19	0.279		5	0.252	33	0.278		36	0.252	4	0.277		6	0.250	8	0.272		111	0.250	104	0.272		115	0.250	39	0.271		116	0.250	114	0.270		32	0.249	117	0.270		107	0.248	17	0.266		20	0.247	24	0.264		14	0.246	22	0.263		15	0.240	26	0.262		27	0.240	11	0.260		108	0.240	23	0.260		119	0.240	30	0.260		1	0.230	31	0.260		112	0.220	106	0.260		10	0.200	122	0.260		120	0.190	21	0.259		18	0.185	7	0.258		103	0.053	<p>AMMONIUM SAMPLE NO.: G2 THEORETICAL VALUE 0.602 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 0.596 MEDIAN: 0.600 STANDARD DEVIATION: 0.071 REL. ST. DEVIATION (%): 11.900</p> <p>RUN 2: NUMBER OF LABORATORIES: 50 ARITHMETIC MEAN VALUE: 0.599 MEDIAN: 0.600 STANDARD DEVIATION: 0.037 REL. ST. DEVIATION (%): 6.205</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>40</td><td>0.841</td><td>UNUSED</td><td>11</td><td>0.600</td></tr> <tr><td>13</td><td>0.678</td><td></td><td>106</td><td>0.600</td></tr> <tr><td>122</td><td>0.676</td><td></td><td>114</td><td>0.600</td></tr> <tr><td>120</td><td>0.670</td><td></td><td>26</td><td>0.597</td></tr> <tr><td>33</td><td>0.653</td><td></td><td>5</td><td>0.596</td></tr> <tr><td>37</td><td>0.640</td><td></td><td>24</td><td>0.591</td></tr> <tr><td>110</td><td>0.640</td><td></td><td>6</td><td>0.590</td></tr> <tr><td>113</td><td>0.640</td><td></td><td>20</td><td>0.590</td></tr> <tr><td>8</td><td>0.629</td><td></td><td>38</td><td>0.590</td></tr> <tr><td>19</td><td>0.629</td><td></td><td>118</td><td>0.588</td></tr> <tr><td>17</td><td>0.626</td><td></td><td>14</td><td>0.580</td></tr> <tr><td>30</td><td>0.620</td><td></td><td>15</td><td>0.580</td></tr> <tr><td>117</td><td>0.620</td><td></td><td>108</td><td>0.580</td></tr> <tr><td>39</td><td>0.615</td><td></td><td>119</td><td>0.580</td></tr> <tr><td>104</td><td>0.615</td><td></td><td>121</td><td>0.577</td></tr> <tr><td>32</td><td>0.613</td><td></td><td>16</td><td>0.575</td></tr> <tr><td>111</td><td>0.611</td><td></td><td>116</td><td>0.571</td></tr> <tr><td>115</td><td>0.610</td><td></td><td>31</td><td>0.569</td></tr> <tr><td>4</td><td>0.607</td><td></td><td>3</td><td>0.564</td></tr> <tr><td>22</td><td>0.607</td><td></td><td>27</td><td>0.560</td></tr> <tr><td>105</td><td>0.606</td><td></td><td>1</td><td>0.550</td></tr> <tr><td>21</td><td>0.605</td><td></td><td>10</td><td>0.550</td></tr> <tr><td>34</td><td>0.605</td><td></td><td>107</td><td>0.542</td></tr> <tr><td>7</td><td>0.603</td><td></td><td>112</td><td>0.520</td></tr> <tr><td>36</td><td>0.602</td><td></td><td>18</td><td>0.472</td></tr> <tr><td>23</td><td>0.601</td><td></td><td>103</td><td>0.237</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	40	0.841	UNUSED	11	0.600	13	0.678		106	0.600	122	0.676		114	0.600	120	0.670		26	0.597	33	0.653		5	0.596	37	0.640		24	0.591	110	0.640		6	0.590	113	0.640		20	0.590	8	0.629		38	0.590	19	0.629		118	0.588	17	0.626		14	0.580	30	0.620		15	0.580	117	0.620		108	0.580	39	0.615		119	0.580	104	0.615		121	0.577	32	0.613		16	0.575	111	0.611		116	0.571	115	0.610		31	0.569	4	0.607		3	0.564	22	0.607		27	0.560	105	0.606		1	0.550	21	0.605		10	0.550	34	0.605		107	0.542	7	0.603		112	0.520	36	0.602		18	0.472	23	0.601		103	0.237
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<p>AMMONIUM SAMPLE NO.: G3 THEORETICAL VALUE 0.501 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 0.500 MEDIAN: 0.503 STANDARD DEVIATION: 0.077 REL. ST. DEVIATION (%): 15.410</p> <p>RUN 2: NUMBER OF LABORATORIES: 49 ARITHMETIC MEAN VALUE: 0.503 MEDIAN: 0.505 STANDARD DEVIATION: 0.033 REL. ST. DEVIATION (%): 6.595</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>40</td><td>0.855</td><td>UNUSED</td><td>111</td><td>0.501</td></tr> <tr><td>11</td><td>0.580</td><td></td><td>6</td><td>0.500</td></tr> <tr><td>13</td><td>0.573</td><td></td><td>16</td><td>0.500</td></tr> <tr><td>112</td><td>0.570</td><td></td><td>23</td><td>0.500</td></tr> <tr><td>113</td><td>0.550</td><td></td><td>38</td><td>0.500</td></tr> <tr><td>120</td><td>0.540</td><td></td><td>115</td><td>0.500</td></tr> <tr><td>110</td><td>0.530</td><td></td><td>22</td><td>0.498</td></tr> <tr><td>19</td><td>0.529</td><td></td><td>26</td><td>0.497</td></tr> <tr><td>24</td><td>0.529</td><td></td><td>107</td><td>0.497</td></tr> <tr><td>33</td><td>0.529</td><td></td><td>121</td><td>0.496</td></tr> <tr><td>30</td><td>0.520</td><td></td><td>20</td><td>0.493</td></tr> <tr><td>104</td><td>0.520</td><td></td><td>118</td><td>0.491</td></tr> <tr><td>117</td><td>0.520</td><td></td><td>31</td><td>0.487</td></tr> <tr><td>39</td><td>0.519</td><td></td><td>116</td><td>0.481</td></tr> <tr><td>32</td><td>0.514</td><td></td><td>1</td><td>0.480</td></tr> <tr><td>4</td><td>0.513</td><td></td><td>108</td><td>0.480</td></tr> <tr><td>8</td><td>0.512</td><td></td><td>14</td><td>0.479</td></tr> <tr><td>21</td><td>0.512</td><td></td><td>3</td><td>0.471</td></tr> <tr><td>17</td><td>0.510</td><td></td><td>27</td><td>0.470</td></tr> <tr><td>34</td><td>0.510</td><td></td><td>122</td><td>0.466</td></tr> <tr><td>106</td><td>0.510</td><td></td><td>15</td><td>0.460</td></tr> <tr><td>114</td><td>0.510</td><td></td><td>119</td><td>0.460</td></tr> <tr><td>36</td><td>0.509</td><td></td><td>10</td><td>0.450</td></tr> <tr><td>7</td><td>0.508</td><td></td><td>18</td><td>0.374</td></tr> <tr><td>5</td><td>0.505</td><td></td><td>37</td><td>0.299</td></tr> <tr><td>105</td><td>0.505</td><td></td><td>103</td><td>0.211</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	40	0.855	UNUSED	111	0.501	11	0.580		6	0.500	13	0.573		16	0.500	112	0.570		23	0.500	113	0.550		38	0.500	120	0.540		115	0.500	110	0.530		22	0.498	19	0.529		26	0.497	24	0.529		107	0.497	33	0.529		121	0.496	30	0.520		20	0.493	104	0.520		118	0.491	117	0.520		31	0.487	39	0.519		116	0.481	32	0.514		1	0.480	4	0.513		108	0.480	8	0.512		14	0.479	21	0.512		3	0.471	17	0.510		27	0.470	34	0.510		122	0.466	106	0.510		15	0.460	114	0.510		119	0.460	36	0.509		10	0.450	7	0.508		18	0.374	5	0.505		37	0.299	105	0.505		103	0.211	<p>AMMONIUM SAMPLE NO.: G4 THEORETICAL VALUE 0.301 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 0.296 MEDIAN: 0.299 STANDARD DEVIATION: 0.052 REL. ST. DEVIATION (%): 17.681</p> <p>RUN 2: NUMBER OF LABORATORIES: 50 ARITHMETIC MEAN VALUE: 0.298 MEDIAN: 0.299 STANDARD DEVIATION: 0.025 REL. ST. DEVIATION (%): 8.498</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>40</td><td>0.484</td><td>UNUSED</td><td>106</td><td>0.299</td></tr> <tr><td>22</td><td>0.356</td><td></td><td>26</td><td>0.297</td></tr> <tr><td>13</td><td>0.344</td><td></td><td>32</td><td>0.295</td></tr> <tr><td>37</td><td>0.336</td><td></td><td>16</td><td>0.294</td></tr> <tr><td>38</td><td>0.330</td><td></td><td>21</td><td>0.294</td></tr> <tr><td>110</td><td>0.330</td><td></td><td>111</td><td>0.294</td></tr> <tr><td>113</td><td>0.330</td><td></td><td>20</td><td>0.293</td></tr> <tr><td>15</td><td>0.320</td><td></td><td>36</td><td>0.293</td></tr> <tr><td>19</td><td>0.320</td><td></td><td>5</td><td>0.291</td></tr> <tr><td>33</td><td>0.320</td><td></td><td>23</td><td>0.291</td></tr> <tr><td>4</td><td>0.313</td><td></td><td>107</td><td>0.291</td></tr> <tr><td>8</td><td>0.311</td><td></td><td>6</td><td>0.290</td></tr> <tr><td>24</td><td>0.311</td><td></td><td>118</td><td>0.290</td></tr> <tr><td>34</td><td>0.311</td><td></td><td>120</td><td>0.290</td></tr> <tr><td>104</td><td>0.311</td><td></td><td>116</td><td>0.288</td></tr> <tr><td>105</td><td>0.311</td><td></td><td>3</td><td>0.287</td></tr> <tr><td>112</td><td>0.310</td><td></td><td>121</td><td>0.286</td></tr> <tr><td>114</td><td>0.310</td><td></td><td>27</td><td>0.270</td></tr> <tr><td>117</td><td>0.310</td><td></td><td>1</td><td>0.260</td></tr> <tr><td>39</td><td>0.304</td><td></td><td>108</td><td>0.260</td></tr> <tr><td>14</td><td>0.302</td><td></td><td>115</td><td>0.260</td></tr> <tr><td>17</td><td>0.301</td><td></td><td>119</td><td>0.260</td></tr> <tr><td>31</td><td>0.301</td><td></td><td>122</td><td>0.254</td></tr> <tr><td>7</td><td>0.300</td><td></td><td>10</td><td>0.250</td></tr> <tr><td>11</td><td>0.300</td><td></td><td>18</td><td>0.216</td></tr> <tr><td>30</td><td>0.300</td><td></td><td>103</td><td>0.026</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	40	0.484	UNUSED	106	0.299	22	0.356		26	0.297	13	0.344		32	0.295	37	0.336		16	0.294	38	0.330		21	0.294	110	0.330		111	0.294	113	0.330		20	0.293	15	0.320		36	0.293	19	0.320		5	0.291	33	0.320		23	0.291	4	0.313		107	0.291	8	0.311		6	0.290	24	0.311		118	0.290	34	0.311		120	0.290	104	0.311		116	0.288	105	0.311		3	0.287	112	0.310		121	0.286	114	0.310		27	0.270	117	0.310		1	0.260	39	0.304		108	0.260	14	0.302		115	0.260	17	0.301		119	0.260	31	0.301		122	0.254	7	0.300		10	0.250	11	0.300		18	0.216	30	0.300		103	0.026
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30	0.300		103	0.026																																																																																																																																																																																																																																																																	

Table 6: Analytical results for pH in precipitations samples.

<p>pH SAMPLE NO.: G1 THEORETICAL VALUE 4.600 UNIT: pH UNITS</p> <p>RUN 1: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 4.622 MEDIAN: 4.640 STANDARD DEVIATION: 0.202 REL. ST. DEVIATION (%): 4.360</p> <p>RUN 2: NUMBER OF LABORATORIES: 49 ARITHMETIC MEAN VALUE: 4.626 MEDIAN: 4.640 STANDARD DEVIATION: 0.143 REL. ST. DEVIATION (%): 3.092</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>108</td><td>5.390 UNUSED</td><td>104</td><td>4.640</td></tr> <tr><td>117</td><td>4.920</td><td>21</td><td>4.630</td></tr> <tr><td>113</td><td>4.880</td><td>27</td><td>4.630</td></tr> <tr><td>19</td><td>4.854</td><td>36</td><td>4.630</td></tr> <tr><td>110</td><td>4.800</td><td>106</td><td>4.630</td></tr> <tr><td>121</td><td>4.790</td><td>5</td><td>4.620</td></tr> <tr><td>1</td><td>4.760</td><td>31</td><td>4.610</td></tr> <tr><td>14</td><td>4.750</td><td>3</td><td>4.602</td></tr> <tr><td>34</td><td>4.737</td><td>116</td><td>4.600</td></tr> <tr><td>4</td><td>4.720</td><td>12</td><td>4.590</td></tr> <tr><td>33</td><td>4.720</td><td>32</td><td>4.585</td></tr> <tr><td>112</td><td>4.720</td><td>20</td><td>4.580</td></tr> <tr><td>114</td><td>4.710</td><td>11</td><td>4.560</td></tr> <tr><td>10</td><td>4.700</td><td>16</td><td>4.560</td></tr> <tr><td>13</td><td>4.700</td><td>24</td><td>4.560</td></tr> <tr><td>119</td><td>4.700</td><td>6</td><td>4.540</td></tr> <tr><td>120</td><td>4.700</td><td>30</td><td>4.530</td></tr> <tr><td>111</td><td>4.690</td><td>18</td><td>4.510</td></tr> <tr><td>22</td><td>4.680</td><td>38</td><td>4.500</td></tr> <tr><td>8</td><td>4.660</td><td>17</td><td>4.360</td></tr> <tr><td>103</td><td>4.660</td><td>39</td><td>4.350</td></tr> <tr><td>118</td><td>4.660</td><td>107</td><td>4.300</td></tr> <tr><td>7</td><td>4.650</td><td>115</td><td>4.250</td></tr> <tr><td>15</td><td>4.650</td><td>23</td><td>4.240</td></tr> <tr><td>26</td><td>4.640</td><td>105</td><td>4.170 UNUSED</td></tr> <tr><td>37</td><td>4.640</td><td>40</td><td>4.080 UNUSED</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	108	5.390 UNUSED	104	4.640	117	4.920	21	4.630	113	4.880	27	4.630	19	4.854	36	4.630	110	4.800	106	4.630	121	4.790	5	4.620	1	4.760	31	4.610	14	4.750	3	4.602	34	4.737	116	4.600	4	4.720	12	4.590	33	4.720	32	4.585	112	4.720	20	4.580	114	4.710	11	4.560	10	4.700	16	4.560	13	4.700	24	4.560	119	4.700	6	4.540	120	4.700	30	4.530	111	4.690	18	4.510	22	4.680	38	4.500	8	4.660	17	4.360	103	4.660	39	4.350	118	4.660	107	4.300	7	4.650	115	4.250	15	4.650	23	4.240	26	4.640	105	4.170 UNUSED	37	4.640	40	4.080 UNUSED	<p>pH SAMPLE NO.: G2 THEORETICAL VALUE 4.050 UNIT: pH UNITS</p> <p>RUN 1: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 4.071 MEDIAN: 4.090 STANDARD DEVIATION: 0.155 REL. ST. DEVIATION (%): 3.812</p> <p>RUN 2: NUMBER OF LABORATORIES: 49 ARITHMETIC MEAN VALUE: 4.073 MEDIAN: 4.090 STANDARD DEVIATION: 0.091 REL. ST. DEVIATION (%): 2.228</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>115</td><td>4.780 UNUSED</td><td>114</td><td>4.090</td></tr> <tr><td>11</td><td>4.310</td><td>121</td><td>4.090</td></tr> <tr><td>113</td><td>4.210</td><td>34</td><td>4.087</td></tr> <tr><td>110</td><td>4.200</td><td>6</td><td>4.080</td></tr> <tr><td>112</td><td>4.160</td><td>26</td><td>4.080</td></tr> <tr><td>19</td><td>4.159</td><td>5</td><td>4.070</td></tr> <tr><td>1</td><td>4.150</td><td>32</td><td>4.070</td></tr> <tr><td>108</td><td>4.150</td><td>111</td><td>4.070</td></tr> <tr><td>8</td><td>4.140</td><td>116</td><td>4.070</td></tr> <tr><td>10</td><td>4.130</td><td>13</td><td>4.060</td></tr> <tr><td>4</td><td>4.120</td><td>20</td><td>4.060</td></tr> <tr><td>7</td><td>4.120</td><td>21</td><td>4.060</td></tr> <tr><td>117</td><td>4.120</td><td>106</td><td>4.060</td></tr> <tr><td>14</td><td>4.110</td><td>12</td><td>4.040</td></tr> <tr><td>37</td><td>4.110</td><td>15</td><td>4.020</td></tr> <tr><td>118</td><td>4.110</td><td>24</td><td>4.010</td></tr> <tr><td>3</td><td>4.105</td><td>30</td><td>4.000</td></tr> <tr><td>31</td><td>4.100</td><td>16</td><td>3.960</td></tr> <tr><td>33</td><td>4.100</td><td>18</td><td>3.960</td></tr> <tr><td>103</td><td>4.100</td><td>38</td><td>3.950</td></tr> <tr><td>104</td><td>4.100</td><td>17</td><td>3.920</td></tr> <tr><td>119</td><td>4.100</td><td>23</td><td>3.860</td></tr> <tr><td>120</td><td>4.100</td><td>39</td><td>3.840</td></tr> <tr><td>22</td><td>4.090</td><td>107</td><td>3.800</td></tr> <tr><td>27</td><td>4.090</td><td>40</td><td>3.680 UNUSED</td></tr> <tr><td>36</td><td>4.090</td><td>105</td><td>3.650 UNUSED</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	115	4.780 UNUSED	114	4.090	11	4.310	121	4.090	113	4.210	34	4.087	110	4.200	6	4.080	112	4.160	26	4.080	19	4.159	5	4.070	1	4.150	32	4.070	108	4.150	111	4.070	8	4.140	116	4.070	10	4.130	13	4.060	4	4.120	20	4.060	7	4.120	21	4.060	117	4.120	106	4.060	14	4.110	12	4.040	37	4.110	15	4.020	118	4.110	24	4.010	3	4.105	30	4.000	31	4.100	16	3.960	33	4.100	18	3.960	103	4.100	38	3.950	104	4.100	17	3.920	119	4.100	23	3.860	120	4.100	39	3.840	22	4.090	107	3.800	27	4.090	40	3.680 UNUSED	36	4.090	105	3.650 UNUSED
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36	4.090	105	3.650 UNUSED																																																																																																																																																																																																														
<p>pH SAMPLE NO.: G3 THEORETICAL VALUE 4.520 UNIT: pH UNITS</p> <p>RUN 1: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 4.522 MEDIAN: 4.550 STANDARD DEVIATION: 0.142 REL. ST. DEVIATION (%): 3.149</p> <p>RUN 2: NUMBER OF LABORATORIES: 49 ARITHMETIC MEAN VALUE: 4.549 MEDIAN: 4.560 STANDARD DEVIATION: 0.090 REL. ST. DEVIATION (%): 1.987</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>1</td><td>4.760</td><td>27</td><td>4.550</td></tr> <tr><td>13</td><td>4.760</td><td>104</td><td>4.550</td></tr> <tr><td>113</td><td>4.730</td><td>34</td><td>4.543</td></tr> <tr><td>115</td><td>4.700</td><td>5</td><td>4.540</td></tr> <tr><td>112</td><td>4.660</td><td>26</td><td>4.540</td></tr> <tr><td>10</td><td>4.630</td><td>106</td><td>4.540</td></tr> <tr><td>19</td><td>4.621</td><td>116</td><td>4.540</td></tr> <tr><td>14</td><td>4.620</td><td>3</td><td>4.530</td></tr> <tr><td>37</td><td>4.620</td><td>21</td><td>4.530</td></tr> <tr><td>110</td><td>4.600</td><td>32</td><td>4.520</td></tr> <tr><td>120</td><td>4.600</td><td>15</td><td>4.510</td></tr> <tr><td>22</td><td>4.590</td><td>6</td><td>4.490</td></tr> <tr><td>8</td><td>4.580</td><td>12</td><td>4.490</td></tr> <tr><td>33</td><td>4.580</td><td>31</td><td>4.490</td></tr> <tr><td>4</td><td>4.570</td><td>36</td><td>4.470</td></tr> <tr><td>7</td><td>4.570</td><td>16</td><td>4.460</td></tr> <tr><td>103</td><td>4.570</td><td>24</td><td>4.450</td></tr> <tr><td>111</td><td>4.570</td><td>30</td><td>4.450</td></tr> <tr><td>117</td><td>4.570</td><td>18</td><td>4.400</td></tr> <tr><td>118</td><td>4.570</td><td>17</td><td>4.390</td></tr> <tr><td>119</td><td>4.570</td><td>23</td><td>4.390</td></tr> <tr><td>11</td><td>4.560</td><td>38</td><td>4.380</td></tr> <tr><td>108</td><td>4.560</td><td>39</td><td>4.320</td></tr> <tr><td>114</td><td>4.560</td><td>107</td><td>4.200 UNUSED</td></tr> <tr><td>121</td><td>4.560</td><td>105</td><td>4.090 UNUSED</td></tr> <tr><td>20</td><td>4.550</td><td>40</td><td>3.960 UNUSED</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	1	4.760	27	4.550	13	4.760	104	4.550	113	4.730	34	4.543	115	4.700	5	4.540	112	4.660	26	4.540	10	4.630	106	4.540	19	4.621	116	4.540	14	4.620	3	4.530	37	4.620	21	4.530	110	4.600	32	4.520	120	4.600	15	4.510	22	4.590	6	4.490	8	4.580	12	4.490	33	4.580	31	4.490	4	4.570	36	4.470	7	4.570	16	4.460	103	4.570	24	4.450	111	4.570	30	4.450	117	4.570	18	4.400	118	4.570	17	4.390	119	4.570	23	4.390	11	4.560	38	4.380	108	4.560	39	4.320	114	4.560	107	4.200 UNUSED	121	4.560	105	4.090 UNUSED	20	4.550	40	3.960 UNUSED	<p>pH SAMPLE NO.: G4 THEORETICAL VALUE 4.070 UNIT: pH UNITS</p> <p>RUN 1: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 4.099 MEDIAN: 4.120 STANDARD DEVIATION: 0.156 REL. ST. DEVIATION (%): 3.814</p> <p>RUN 2: NUMBER OF LABORATORIES: 48 ARITHMETIC MEAN VALUE: 4.092 MEDIAN: 4.120 STANDARD DEVIATION: 0.078 REL. ST. DEVIATION (%): 1.914</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>115</td><td>4.720 UNUSED</td><td>121</td><td>4.120</td></tr> <tr><td>120</td><td>4.600 UNUSED</td><td>27</td><td>4.110</td></tr> <tr><td>113</td><td>4.220</td><td>32</td><td>4.110</td></tr> <tr><td>110</td><td>4.200</td><td>36</td><td>4.110</td></tr> <tr><td>19</td><td>4.187</td><td>34</td><td>4.108</td></tr> <tr><td>108</td><td>4.180</td><td>26</td><td>4.100</td></tr> <tr><td>10</td><td>4.160</td><td>33</td><td>4.100</td></tr> <tr><td>13</td><td>4.150</td><td>106</td><td>4.100</td></tr> <tr><td>7</td><td>4.140</td><td>116</td><td>4.100</td></tr> <tr><td>112</td><td>4.140</td><td>5</td><td>4.090</td></tr> <tr><td>1</td><td>4.130</td><td>12</td><td>4.080</td></tr> <tr><td>3</td><td>4.130</td><td>20</td><td>4.080</td></tr> <tr><td>4</td><td>4.130</td><td>21</td><td>4.080</td></tr> <tr><td>8</td><td>4.130</td><td>6</td><td>4.060</td></tr> <tr><td>14</td><td>4.130</td><td>15</td><td>4.060</td></tr> <tr><td>37</td><td>4.130</td><td>17</td><td>4.040</td></tr> <tr><td>117</td><td>4.130</td><td>24</td><td>4.030</td></tr> <tr><td>11</td><td>4.120</td><td>16</td><td>4.010</td></tr> <tr><td>22</td><td>4.120</td><td>30</td><td>3.990</td></tr> <tr><td>31</td><td>4.120</td><td>38</td><td>3.980</td></tr> <tr><td>103</td><td>4.120</td><td>18</td><td>3.970</td></tr> <tr><td>104</td><td>4.120</td><td>23</td><td>3.940</td></tr> <tr><td>111</td><td>4.120</td><td>39</td><td>3.870</td></tr> <tr><td>114</td><td>4.120</td><td>107</td><td>3.800</td></tr> <tr><td>118</td><td>4.120</td><td>40</td><td>3.710 UNUSED</td></tr> <tr><td>119</td><td>4.120</td><td>105</td><td>3.690 UNUSED</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	115	4.720 UNUSED	121	4.120	120	4.600 UNUSED	27	4.110	113	4.220	32	4.110	110	4.200	36	4.110	19	4.187	34	4.108	108	4.180	26	4.100	10	4.160	33	4.100	13	4.150	106	4.100	7	4.140	116	4.100	112	4.140	5	4.090	1	4.130	12	4.080	3	4.130	20	4.080	4	4.130	21	4.080	8	4.130	6	4.060	14	4.130	15	4.060	37	4.130	17	4.040	117	4.130	24	4.030	11	4.120	16	4.010	22	4.120	30	3.990	31	4.120	38	3.980	103	4.120	18	3.970	104	4.120	23	3.940	111	4.120	39	3.870	114	4.120	107	3.800	118	4.120	40	3.710 UNUSED	119	4.120	105	3.690 UNUSED
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Table 7a: Analytical results for strong acid calculated from pH in precipitations samples.

<p>STRONG ACID CALCULATED FROM PH SAMPLE NO.: G1 THEORETICAL VALUE 25.000 UNIT: µeq/l</p> <p>RUN 1: NUMBER OF LABORATORIES: 53 ARITHMETIC MEAN VALUE: ***** MEDIAN: 22.910 STANDARD DEVIATION: ***** REL. ST. DEVIATION (%): 726.986</p> <p>RUN 2: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 26.589 MEDIAN: 22.910 STANDARD DEVIATION: 14.095 REL. ST. DEVIATION (%): 53.009</p> <p>RESULTS IN DECREASING ORDER: 122***** UNUSED 37 22.910 40 83.180 104 22.910 105 67.610 7 22.390 23 57.540 15 22.390 115 56.230 8 21.880 107 50.120 103 21.880 39 44.670 118 21.880 17 43.650 22 20.890 38 31.620 111 20.420 18 30.900 10 19.950 30 29.510 13 19.950 6 28.840 119 19.950 11 27.540 120 19.950 16 27.540 114 19.500 24 27.540 4 19.050 20 26.300 33 19.050 32 26.000 112 19.050 12 25.700 34 18.320 116 25.120 14 17.780 3 25.000 1 17.380 31 24.550 121 16.220 5 23.990 110 15.850 21 23.440 19 14.000 27 23.440 113 13.180 36 23.440 117 12.020 106 23.440 108 4.070 26 22.910</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	<p>STRONG ACID CALCULATED FROM PH SAMPLE NO.: G2 THEORETICAL VALUE 90.000 UNIT: µeq/l</p> <p>RUN 1: NUMBER OF LABORATORIES: 53 ARITHMETIC MEAN VALUE: ***** MEDIAN: 81.280 STANDARD DEVIATION: ***** REL. ST. DEVIATION (%): 724.550</p> <p>RUN 2: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 90.116 MEDIAN: 81.280 STANDARD DEVIATION: 33.634 REL. ST. DEVIATION (%): 37.323</p> <p>RESULTS IN DECREASING ORDER: 112***** UNUSED 36 81.280 105 223.870 114 81.280 40 208.930 121 81.280 107 158.490 31 79.430 39 144.540 33 79.430 23 138.040 103 79.430 17 120.230 104 79.430 38 112.200 119 79.430 16 109.650 120 79.430 18 109.650 3 78.520 30 100.000 14 77.620 24 97.720 37 77.620 15 95.500 118 77.620 12 91.200 4 75.860 13 87.100 7 75.860 20 87.100 117 75.860 21 87.100 10 74.130 106 87.100 8 72.440 5 85.110 1 70.790 32 85.110 108 70.790 111 85.110 19 69.340 116 85.110 112 69.180 6 83.180 110 63.100 26 83.180 113 61.660 34 81.850 11 48.980 22 81.280 115 16.600 27 81.280</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>
<p>STRONG ACID CALCULATED FROM PH SAMPLE NO.: G3 THEORETICAL VALUE 30.000 UNIT: µeq/l</p> <p>RUN 1: NUMBER OF LABORATORIES: 53 ARITHMETIC MEAN VALUE: ***** MEDIAN: 28.180 STANDARD DEVIATION: ***** REL. ST. DEVIATION (%): 726.776</p> <p>RUN 2: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 32.073 MEDIAN: 28.180 STANDARD DEVIATION: 15.154 REL. ST. DEVIATION (%): 47.248</p> <p>RESULTS IN DECREASING ORDER: 122***** UNUSED 104 28.180 40 109.650 11 27.540 105 81.280 108 27.540 107 63.100 114 27.540 39 47.860 121 27.540 38 41.690 4 26.920 17 40.740 7 26.920 23 40.740 103 26.920 18 39.810 111 26.920 24 35.480 117 26.920 30 35.480 118 26.920 16 34.670 119 26.920 36 33.880 8 26.300 6 32.360 33 26.300 12 32.360 22 25.700 31 32.360 100 25.120 15 30.900 120 25.120 32 30.200 14 23.990 3 29.510 37 23.990 21 29.510 19 23.930 5 28.840 10 23.440 26 28.840 112 21.880 106 28.840 115 19.950 116 28.840 113 18.620 34 28.640 1 17.380 20 28.180 13 17.380 27 28.180</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	<p>STRONG ACID CALCULATED FROM PH SAMPLE NO.: G4 THEORETICAL VALUE 85.000 UNIT: µeq/l</p> <p>RUN 1: NUMBER OF LABORATORIES: 53 ARITHMETIC MEAN VALUE: ***** MEDIAN: 75.860 STANDARD DEVIATION: ***** REL. ST. DEVIATION (%): 724.762</p> <p>RUN 2: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 84.584 MEDIAN: 75.860 STANDARD DEVIATION: 31.029 REL. ST. DEVIATION (%): 36.684</p> <p>RESULTS IN DECREASING ORDER: 122***** UNUSED 22 75.860 105 204.170 31 75.860 40 194.980 103 75.860 107 158.490 104 75.860 39 134.900 111 75.860 23 114.820 114 75.860 18 107.150 118 75.860 38 104.710 119 75.860 30 102.330 121 75.860 16 97.720 1 74.130 24 93.330 3 74.130 17 91.200 4 74.130 6 87.100 8 74.130 15 87.100 14 74.130 12 83.180 37 74.130 20 83.180 117 74.130 21 83.180 7 72.440 5 81.280 112 72.440 26 79.430 13 70.790 33 79.430 10 69.180 106 79.430 108 66.070 116 79.430 19 65.010 34 77.980 110 63.100 27 77.620 113 60.260 32 77.620 120 25.120 36 77.620 115 19.050 11 75.860</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>

Table 7b: Analytical results for strong acid in precipitations samples.

<p>STRONG ACIDS SAMPLE NO.: G1 THEORETICAL VALUE 25. UNIT: µeq</p> <p>RUN 1: NUMBER OF LABORATORIES: 2 ARITHMETIC MEAN VALUE: 23.900 MEDIAN: 23.900 STANDARD DEVIATION: 1.556 REL. ST. DEVIATION (%): 6.509</p> <p>RUN 2: NUMBER OF LABORATORIES: 2 ARITHMETIC MEAN VALUE: 23.900 MEDIAN: 23.900 STANDARD DEVIATION: 1.556 REL. ST. DEVIATION (%): 6.509</p> <p>RESULTS IN DECREASING ORDER: 6 25.000 14 22.800 "UNUSED": DATA UNUSED IN RUN 2</p>	<p>STRONG ACIDS SAMPLE NO.: G2 THEORETICAL VALUE 90. UNIT: µeq</p> <p>RUN 1: NUMBER OF LABORATORIES: 2 ARITHMETIC MEAN VALUE: 108.800 MEDIAN: 108.800 STANDARD DEVIATION: 26.587 REL. ST. DEVIATION (%): 24.437</p> <p>RUN 2: NUMBER OF LABORATORIES: 2 ARITHMETIC MEAN VALUE: 108.800 MEDIAN: 108.800 STANDARD DEVIATION: 26.587 REL. ST. DEVIATION (%): 24.437</p> <p>RESULTS IN DECREASING ORDER: 14 127.600 6 90.000 "UNUSED": DATA UNUSED IN RUN 2</p>
<p>STRONG ACIDS SAMPLE NO.: G3 THEORETICAL VALUE 30. UNIT: µeq</p> <p>RUN 1: NUMBER OF LABORATORIES: 2 ARITHMETIC MEAN VALUE: 29.050 MEDIAN: 29.050 STANDARD DEVIATION: 1.344 REL. ST. DEVIATION (%): 4.625</p> <p>RUN 2: NUMBER OF LABORATORIES: 2 ARITHMETIC MEAN VALUE: 29.050 MEDIAN: 29.050 STANDARD DEVIATION: 1.344 REL. ST. DEVIATION (%): 4.625</p> <p>RESULTS IN DECREASING ORDER: 6 30.000 14 28.100 "UNUSED": DATA UNUSED IN RUN 2</p>	<p>STRONG ACIDS SAMPLE NO.: G4 THEORETICAL VALUE 85. UNIT: µeq</p> <p>RUN 1: NUMBER OF LABORATORIES: 2 ARITHMETIC MEAN VALUE: 84.000 MEDIAN: 84.000 STANDARD DEVIATION: 1.414 REL. ST. DEVIATION (%): 1.684</p> <p>RUN 2: NUMBER OF LABORATORIES: 2 ARITHMETIC MEAN VALUE: 84.000 MEDIAN: 84.000 STANDARD DEVIATION: 1.414 REL. ST. DEVIATION (%): 1.684</p> <p>RESULTS IN DECREASING ORDER: 6 85.000 14 83.000 "UNUSED": DATA UNUSED IN RUN 2</p>

Table 8: Analytical results for chloride in precipitations samples.

<p>CHLORIDE SAMPLE NO.: G1 THEORETICAL VALUE 0.203 UNIT: µg Cl/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 49 ARITHMETIC MEAN VALUE: 0.215 MEDIAN: 0.200 STANDARD DEVIATION: 0.077 REL. ST. DEVIATION (%): 35.792</p> <p>RUN 2: NUMBER OF LABORATORIES: 46 ARITHMETIC MEAN VALUE: 0.206 MEDIAN: 0.200 STANDARD DEVIATION: 0.044 REL. ST. DEVIATION (%): 21.315</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>105</td><td>0.509</td><td>UNUSED</td><td>118</td><td>0.200</td></tr> <tr><td>19</td><td>0.500</td><td>UNUSED</td><td>7</td><td>0.198</td></tr> <tr><td>23</td><td>0.320</td><td></td><td>27</td><td>0.195</td></tr> <tr><td>108</td><td>0.320</td><td></td><td>31</td><td>0.192</td></tr> <tr><td>10</td><td>0.300</td><td></td><td>14</td><td>0.191</td></tr> <tr><td>18</td><td>0.296</td><td></td><td>112</td><td>0.190</td></tr> <tr><td>110</td><td>0.270</td><td></td><td>11</td><td>0.189</td></tr> <tr><td>37</td><td>0.258</td><td></td><td>32</td><td>0.189</td></tr> <tr><td>39</td><td>0.255</td><td></td><td>21</td><td>0.188</td></tr> <tr><td>104</td><td>0.255</td><td></td><td>33</td><td>0.185</td></tr> <tr><td>103</td><td>0.254</td><td></td><td>34</td><td>0.183</td></tr> <tr><td>30</td><td>0.230</td><td></td><td>12</td><td>0.180</td></tr> <tr><td>121</td><td>0.218</td><td></td><td>15</td><td>0.180</td></tr> <tr><td>8</td><td>0.210</td><td></td><td>117</td><td>0.180</td></tr> <tr><td>13</td><td>0.210</td><td></td><td>119</td><td>0.180</td></tr> <tr><td>16</td><td>0.210</td><td></td><td>111</td><td>0.177</td></tr> <tr><td>26</td><td>0.207</td><td></td><td>17</td><td>0.175</td></tr> <tr><td>5</td><td>0.206</td><td></td><td>20</td><td>0.174</td></tr> <tr><td>116</td><td>0.202</td><td></td><td>3</td><td>0.168</td></tr> <tr><td>107</td><td>0.201</td><td></td><td>115</td><td>0.160</td></tr> <tr><td>1</td><td>0.200</td><td></td><td>22</td><td>0.157</td></tr> <tr><td>4</td><td>0.200</td><td></td><td>38</td><td>0.130</td></tr> <tr><td>6</td><td>0.200</td><td></td><td>120</td><td>0.110</td></tr> <tr><td>36</td><td>0.200</td><td></td><td>24</td><td>0.050 UNUSED</td></tr> <tr><td>114</td><td>0.200</td><td></td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	105	0.509	UNUSED	118	0.200	19	0.500	UNUSED	7	0.198	23	0.320		27	0.195	108	0.320		31	0.192	10	0.300		14	0.191	18	0.296		112	0.190	110	0.270		11	0.189	37	0.258		32	0.189	39	0.255		21	0.188	104	0.255		33	0.185	103	0.254		34	0.183	30	0.230		12	0.180	121	0.218		15	0.180	8	0.210		117	0.180	13	0.210		119	0.180	16	0.210		111	0.177	26	0.207		17	0.175	5	0.206		20	0.174	116	0.202		3	0.168	107	0.201		115	0.160	1	0.200		22	0.157	4	0.200		38	0.130	6	0.200		120	0.110	36	0.200		24	0.050 UNUSED	114	0.200				<p>CHLORIDE SAMPLE NO.: G2 THEORETICAL VALUE 0.579 UNIT: µg Cl/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 50 ARITHMETIC MEAN VALUE: 0.587 MEDIAN: 0.560 STANDARD DEVIATION: 0.115 REL. ST. DEVIATION (%): 19.607</p> <p>RUN 2: NUMBER OF LABORATORIES: 48 ARITHMETIC MEAN VALUE: 0.567 MEDIAN: 0.560 STANDARD DEVIATION: 0.052 REL. ST. DEVIATION (%): 9.132</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>40</td><td>1.240</td><td>UNUSED</td><td>33</td><td>0.560</td></tr> <tr><td>105</td><td>0.866</td><td>UNUSED</td><td>115</td><td>0.560</td></tr> <tr><td>19</td><td>0.773</td><td></td><td>118</td><td>0.560</td></tr> <tr><td>108</td><td>0.720</td><td></td><td>4</td><td>0.559</td></tr> <tr><td>10</td><td>0.650</td><td></td><td>17</td><td>0.559</td></tr> <tr><td>23</td><td>0.638</td><td></td><td>16</td><td>0.558</td></tr> <tr><td>39</td><td>0.626</td><td></td><td>121</td><td>0.551</td></tr> <tr><td>13</td><td>0.600</td><td></td><td>8</td><td>0.550</td></tr> <tr><td>24</td><td>0.600</td><td></td><td>12</td><td>0.550</td></tr> <tr><td>114</td><td>0.600</td><td></td><td>110</td><td>0.550</td></tr> <tr><td>103</td><td>0.597</td><td></td><td>34</td><td>0.549</td></tr> <tr><td>14</td><td>0.596</td><td></td><td>104</td><td>0.548</td></tr> <tr><td>18</td><td>0.592</td><td></td><td>37</td><td>0.547</td></tr> <tr><td>26</td><td>0.592</td><td></td><td>21</td><td>0.545</td></tr> <tr><td>32</td><td>0.577</td><td></td><td>116</td><td>0.540</td></tr> <tr><td>36</td><td>0.576</td><td></td><td>119</td><td>0.540</td></tr> <tr><td>27</td><td>0.573</td><td></td><td>3</td><td>0.536</td></tr> <tr><td>111</td><td>0.573</td><td></td><td>1</td><td>0.530</td></tr> <tr><td>30</td><td>0.570</td><td></td><td>112</td><td>0.530</td></tr> <tr><td>107</td><td>0.569</td><td></td><td>31</td><td>0.523</td></tr> <tr><td>7</td><td>0.567</td><td></td><td>11</td><td>0.503</td></tr> <tr><td>5</td><td>0.563</td><td></td><td>22</td><td>0.499</td></tr> <tr><td>6</td><td>0.560</td><td></td><td>38</td><td>0.490</td></tr> <tr><td>15</td><td>0.560</td><td></td><td>117</td><td>0.490</td></tr> <tr><td>20</td><td>0.560</td><td></td><td>120</td><td>0.480</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	40	1.240	UNUSED	33	0.560	105	0.866	UNUSED	115	0.560	19	0.773		118	0.560	108	0.720		4	0.559	10	0.650		17	0.559	23	0.638		16	0.558	39	0.626		121	0.551	13	0.600		8	0.550	24	0.600		12	0.550	114	0.600		110	0.550	103	0.597		34	0.549	14	0.596		104	0.548	18	0.592		37	0.547	26	0.592		21	0.545	32	0.577		116	0.540	36	0.576		119	0.540	27	0.573		3	0.536	111	0.573		1	0.530	30	0.570		112	0.530	107	0.569		31	0.523	7	0.567		11	0.503	5	0.563		22	0.499	6	0.560		38	0.490	15	0.560		117	0.490	20	0.560		120	0.480
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<p>CHLORIDE SAMPLE NO.: G3 THEORETICAL VALUE 0.724 UNIT: µg Cl/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 50 ARITHMETIC MEAN VALUE: 0.712 MEDIAN: 0.700 STANDARD DEVIATION: 0.132 REL. ST. DEVIATION (%): 18.559</p> <p>RUN 2: NUMBER OF LABORATORIES: 48 ARITHMETIC MEAN VALUE: 0.706 MEDIAN: 0.700 STANDARD DEVIATION: 0.058 REL. ST. DEVIATION (%): 8.222</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>40</td><td>1.412</td><td>UNUSED</td><td>6</td><td>0.700</td></tr> <tr><td>19</td><td>0.873</td><td></td><td>12</td><td>0.700</td></tr> <tr><td>18</td><td>0.864</td><td></td><td>15</td><td>0.700</td></tr> <tr><td>105</td><td>0.844</td><td></td><td>118</td><td>0.700</td></tr> <tr><td>10</td><td>0.790</td><td></td><td>16</td><td>0.699</td></tr> <tr><td>39</td><td>0.781</td><td></td><td>20</td><td>0.698</td></tr> <tr><td>103</td><td>0.772</td><td></td><td>3</td><td>0.693</td></tr> <tr><td>23</td><td>0.768</td><td></td><td>17</td><td>0.690</td></tr> <tr><td>13</td><td>0.760</td><td></td><td>21</td><td>0.683</td></tr> <tr><td>24</td><td>0.750</td><td></td><td>31</td><td>0.683</td></tr> <tr><td>27</td><td>0.725</td><td></td><td>108</td><td>0.680</td></tr> <tr><td>26</td><td>0.724</td><td></td><td>119</td><td>0.680</td></tr> <tr><td>22</td><td>0.723</td><td></td><td>11</td><td>0.675</td></tr> <tr><td>30</td><td>0.720</td><td></td><td>8</td><td>0.670</td></tr> <tr><td>114</td><td>0.720</td><td></td><td>110</td><td>0.670</td></tr> <tr><td>36</td><td>0.718</td><td></td><td>116</td><td>0.666</td></tr> <tr><td>14</td><td>0.713</td><td></td><td>120</td><td>0.660</td></tr> <tr><td>7</td><td>0.712</td><td></td><td>104</td><td>0.653</td></tr> <tr><td>33</td><td>0.708</td><td></td><td>112</td><td>0.640</td></tr> <tr><td>111</td><td>0.708</td><td></td><td>38</td><td>0.630</td></tr> <tr><td>32</td><td>0.705</td><td></td><td>117</td><td>0.620</td></tr> <tr><td>4</td><td>0.704</td><td></td><td>121</td><td>0.611</td></tr> <tr><td>5</td><td>0.703</td><td></td><td>115</td><td>0.610</td></tr> <tr><td>107</td><td>0.702</td><td></td><td>34</td><td>0.605</td></tr> <tr><td>1</td><td>0.700</td><td></td><td>37</td><td>0.260 UNUSED</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	40	1.412	UNUSED	6	0.700	19	0.873		12	0.700	18	0.864		15	0.700	105	0.844		118	0.700	10	0.790		16	0.699	39	0.781		20	0.698	103	0.772		3	0.693	23	0.768		17	0.690	13	0.760		21	0.683	24	0.750		31	0.683	27	0.725		108	0.680	26	0.724		119	0.680	22	0.723		11	0.675	30	0.720		8	0.670	114	0.720		110	0.670	36	0.718		116	0.666	14	0.713		120	0.660	7	0.712		104	0.653	33	0.708		112	0.640	111	0.708		38	0.630	32	0.705		117	0.620	4	0.704		121	0.611	5	0.703		115	0.610	107	0.702		34	0.605	1	0.700		37	0.260 UNUSED	<p>CHLORIDE SAMPLE NO.: G4 THEORETICAL VALUE 0.290 UNIT: µg Cl/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 49 ARITHMETIC MEAN VALUE: 0.291 MEDIAN: 0.272 STANDARD DEVIATION: 0.066 REL. ST. DEVIATION (%): 22.864</p> <p>RUN 2: NUMBER OF LABORATORIES: 47 ARITHMETIC MEAN VALUE: 0.280 MEDIAN: 0.271 STANDARD DEVIATION: 0.043 REL. ST. DEVIATION (%): 15.411</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>19</td><td>0.570</td><td>UNUSED</td><td>18</td><td>0.271</td></tr> <tr><td>105</td><td>0.498</td><td>UNUSED</td><td>12</td><td>0.270</td></tr> <tr><td>23</td><td>0.423</td><td></td><td>15</td><td>0.270</td></tr> <tr><td>108</td><td>0.380</td><td></td><td>33</td><td>0.270</td></tr> <tr><td>10</td><td>0.370</td><td></td><td>110</td><td>0.270</td></tr> <tr><td>120</td><td>0.370</td><td></td><td>111</td><td>0.270</td></tr> <tr><td>14</td><td>0.340</td><td></td><td>115</td><td>0.270</td></tr> <tr><td>30</td><td>0.340</td><td></td><td>119</td><td>0.270</td></tr> <tr><td>13</td><td>0.323</td><td></td><td>16</td><td>0.269</td></tr> <tr><td>104</td><td>0.320</td><td></td><td>17</td><td>0.268</td></tr> <tr><td>8</td><td>0.300</td><td></td><td>116</td><td>0.265</td></tr> <tr><td>37</td><td>0.293</td><td></td><td>1</td><td>0.260</td></tr> <tr><td>5</td><td>0.290</td><td></td><td>34</td><td>0.260</td></tr> <tr><td>27</td><td>0.290</td><td></td><td>11</td><td>0.258</td></tr> <tr><td>118</td><td>0.290</td><td></td><td>20</td><td>0.254</td></tr> <tr><td>26</td><td>0.288</td><td></td><td>31</td><td>0.254</td></tr> <tr><td>6</td><td>0.280</td><td></td><td>3</td><td>0.247</td></tr> <tr><td>114</td><td>0.280</td><td></td><td>22</td><td>0.243</td></tr> <tr><td>4</td><td>0.279</td><td></td><td>38</td><td>0.240</td></tr> <tr><td>36</td><td>0.278</td><td></td><td>112</td><td>0.230</td></tr> <tr><td>7</td><td>0.275</td><td></td><td>121</td><td>0.227</td></tr> <tr><td>103</td><td>0.274</td><td></td><td>117</td><td>0.220</td></tr> <tr><td>32</td><td>0.273</td><td></td><td>39</td><td>0.216</td></tr> <tr><td>107</td><td>0.273</td><td></td><td>24</td><td>0.200</td></tr> <tr><td>21</td><td>0.272</td><td></td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	19	0.570	UNUSED	18	0.271	105	0.498	UNUSED	12	0.270	23	0.423		15	0.270	108	0.380		33	0.270	10	0.370		110	0.270	120	0.370		111	0.270	14	0.340		115	0.270	30	0.340		119	0.270	13	0.323		16	0.269	104	0.320		17	0.268	8	0.300		116	0.265	37	0.293		1	0.260	5	0.290		34	0.260	27	0.290		11	0.258	118	0.290		20	0.254	26	0.288		31	0.254	6	0.280		3	0.247	114	0.280		22	0.243	4	0.279		38	0.240	36	0.278		112	0.230	7	0.275		121	0.227	103	0.274		117	0.220	32	0.273		39	0.216	107	0.273		24	0.200	21	0.272			
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21	0.272																																																																																																																																																																																																																																																										

Table 9: Analytical results for sodium in precipitations samples.

<p>SODIUM SAMPLE NO.: G1 THEORETICAL VALUE 0.212 UNIT: µg Na/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 48 ARITHMETIC MEAN VALUE: 0.202 MEDIAN: 0.204 STANDARD DEVIATION: 0.049 REL. ST. DEVIATION (%): 24.230</p> <p>RUN 2: NUMBER OF LABORATORIES: 45 ARITHMETIC MEAN VALUE: 0.206 MEDIAN: 0.205 STANDARD DEVIATION: 0.035 REL. ST. DEVIATION (%): 16.840</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>22</td><td>0.333</td><td>UNUSED</td><td>14</td><td>0.204</td></tr> <tr><td>112</td><td>0.300</td><td></td><td>24</td><td>0.204</td></tr> <tr><td>118</td><td>0.300</td><td></td><td>8</td><td>0.200</td></tr> <tr><td>34</td><td>0.279</td><td></td><td>16</td><td>0.200</td></tr> <tr><td>4</td><td>0.252</td><td></td><td>38</td><td>0.200</td></tr> <tr><td>37</td><td>0.242</td><td></td><td>108</td><td>0.200</td></tr> <tr><td>6</td><td>0.230</td><td></td><td>119</td><td>0.200</td></tr> <tr><td>15</td><td>0.220</td><td></td><td>23</td><td>0.197</td></tr> <tr><td>114</td><td>0.220</td><td></td><td>11</td><td>0.195</td></tr> <tr><td>7</td><td>0.218</td><td></td><td>20</td><td>0.194</td></tr> <tr><td>19</td><td>0.218</td><td></td><td>30</td><td>0.190</td></tr> <tr><td>21</td><td>0.218</td><td></td><td>120</td><td>0.186</td></tr> <tr><td>27</td><td>0.218</td><td></td><td>1</td><td>0.180</td></tr> <tr><td>31</td><td>0.218</td><td></td><td>33</td><td>0.180</td></tr> <tr><td>3</td><td>0.217</td><td></td><td>117</td><td>0.180</td></tr> <tr><td>13</td><td>0.215</td><td></td><td>10</td><td>0.170</td></tr> <tr><td>26</td><td>0.215</td><td></td><td>110</td><td>0.170</td></tr> <tr><td>36</td><td>0.215</td><td></td><td>111</td><td>0.170</td></tr> <tr><td>104</td><td>0.215</td><td></td><td>113</td><td>0.160</td></tr> <tr><td>5</td><td>0.213</td><td></td><td>17</td><td>0.152</td></tr> <tr><td>39</td><td>0.212</td><td></td><td>103</td><td>0.150</td></tr> <tr><td>32</td><td>0.210</td><td></td><td>116</td><td>0.112</td></tr> <tr><td>115</td><td>0.210</td><td></td><td>40</td><td>0.089 UNUSED</td></tr> <tr><td>107</td><td>0.205</td><td></td><td>105</td><td>0.030 UNUSED</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	22	0.333	UNUSED	14	0.204	112	0.300		24	0.204	118	0.300		8	0.200	34	0.279		16	0.200	4	0.252		38	0.200	37	0.242		108	0.200	6	0.230		119	0.200	15	0.220		23	0.197	114	0.220		11	0.195	7	0.218		20	0.194	19	0.218		30	0.190	21	0.218		120	0.186	27	0.218		1	0.180	31	0.218		33	0.180	3	0.217		117	0.180	13	0.215		10	0.170	26	0.215		110	0.170	36	0.215		111	0.170	104	0.215		113	0.160	5	0.213		17	0.152	39	0.212		103	0.150	32	0.210		116	0.112	115	0.210		40	0.089 UNUSED	107	0.205		105	0.030 UNUSED	<p>SODIUM SAMPLE NO.: G2 THEORETICAL VALUE 0.698 UNIT: µg Na/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 48 ARITHMETIC MEAN VALUE: 0.658 MEDIAN: 0.690 STANDARD DEVIATION: 0.125 REL. ST. DEVIATION (%): 19.056</p> <p>RUN 2: NUMBER OF LABORATORIES: 45 ARITHMETIC MEAN VALUE: 0.685 MEDIAN: 0.690 STANDARD DEVIATION: 0.071 REL. ST. DEVIATION (%): 10.428</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>37</td><td>0.839</td><td></td><td>14</td><td>0.690</td></tr> <tr><td>32</td><td>0.790</td><td></td><td>15</td><td>0.690</td></tr> <tr><td>34</td><td>0.775</td><td></td><td>38</td><td>0.690</td></tr> <tr><td>4</td><td>0.770</td><td></td><td>39</td><td>0.690</td></tr> <tr><td>112</td><td>0.770</td><td></td><td>118</td><td>0.690</td></tr> <tr><td>6</td><td>0.730</td><td></td><td>23</td><td>0.683</td></tr> <tr><td>119</td><td>0.730</td><td></td><td>33</td><td>0.680</td></tr> <tr><td>3</td><td>0.727</td><td></td><td>110</td><td>0.680</td></tr> <tr><td>5</td><td>0.725</td><td></td><td>17</td><td>0.673</td></tr> <tr><td>114</td><td>0.720</td><td></td><td>104</td><td>0.670</td></tr> <tr><td>20</td><td>0.719</td><td></td><td>107</td><td>0.667</td></tr> <tr><td>31</td><td>0.711</td><td></td><td>120</td><td>0.667</td></tr> <tr><td>1</td><td>0.710</td><td></td><td>19</td><td>0.666</td></tr> <tr><td>27</td><td>0.710</td><td></td><td>24</td><td>0.658</td></tr> <tr><td>115</td><td>0.710</td><td></td><td>16</td><td>0.650</td></tr> <tr><td>36</td><td>0.708</td><td></td><td>117</td><td>0.620</td></tr> <tr><td>7</td><td>0.705</td><td></td><td>10</td><td>0.570</td></tr> <tr><td>21</td><td>0.702</td><td></td><td>113</td><td>0.570</td></tr> <tr><td>30</td><td>0.700</td><td></td><td>111</td><td>0.566</td></tr> <tr><td>26</td><td>0.698</td><td></td><td>108</td><td>0.500</td></tr> <tr><td>22</td><td>0.693</td><td></td><td>103</td><td>0.420</td></tr> <tr><td>13</td><td>0.691</td><td></td><td>40</td><td>0.333 UNUSED</td></tr> <tr><td>8</td><td>0.690</td><td></td><td>116</td><td>0.326 UNUSED</td></tr> <tr><td>11</td><td>0.690</td><td></td><td>105</td><td>0.140 UNUSED</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	37	0.839		14	0.690	32	0.790		15	0.690	34	0.775		38	0.690	4	0.770		39	0.690	112	0.770		118	0.690	6	0.730		23	0.683	119	0.730		33	0.680	3	0.727		110	0.680	5	0.725		17	0.673	114	0.720		104	0.670	20	0.719		107	0.667	31	0.711		120	0.667	1	0.710		19	0.666	27	0.710		24	0.658	115	0.710		16	0.650	36	0.708		117	0.620	7	0.705		10	0.570	21	0.702		113	0.570	30	0.700		111	0.566	26	0.698		108	0.500	22	0.693		103	0.420	13	0.691		40	0.333 UNUSED	8	0.690		116	0.326 UNUSED	11	0.690		105	0.140 UNUSED
22	0.333	UNUSED	14	0.204																																																																																																																																																																																																																																													
112	0.300		24	0.204																																																																																																																																																																																																																																													
118	0.300		8	0.200																																																																																																																																																																																																																																													
34	0.279		16	0.200																																																																																																																																																																																																																																													
4	0.252		38	0.200																																																																																																																																																																																																																																													
37	0.242		108	0.200																																																																																																																																																																																																																																													
6	0.230		119	0.200																																																																																																																																																																																																																																													
15	0.220		23	0.197																																																																																																																																																																																																																																													
114	0.220		11	0.195																																																																																																																																																																																																																																													
7	0.218		20	0.194																																																																																																																																																																																																																																													
19	0.218		30	0.190																																																																																																																																																																																																																																													
21	0.218		120	0.186																																																																																																																																																																																																																																													
27	0.218		1	0.180																																																																																																																																																																																																																																													
31	0.218		33	0.180																																																																																																																																																																																																																																													
3	0.217		117	0.180																																																																																																																																																																																																																																													
13	0.215		10	0.170																																																																																																																																																																																																																																													
26	0.215		110	0.170																																																																																																																																																																																																																																													
36	0.215		111	0.170																																																																																																																																																																																																																																													
104	0.215		113	0.160																																																																																																																																																																																																																																													
5	0.213		17	0.152																																																																																																																																																																																																																																													
39	0.212		103	0.150																																																																																																																																																																																																																																													
32	0.210		116	0.112																																																																																																																																																																																																																																													
115	0.210		40	0.089 UNUSED																																																																																																																																																																																																																																													
107	0.205		105	0.030 UNUSED																																																																																																																																																																																																																																													
37	0.839		14	0.690																																																																																																																																																																																																																																													
32	0.790		15	0.690																																																																																																																																																																																																																																													
34	0.775		38	0.690																																																																																																																																																																																																																																													
4	0.770		39	0.690																																																																																																																																																																																																																																													
112	0.770		118	0.690																																																																																																																																																																																																																																													
6	0.730		23	0.683																																																																																																																																																																																																																																													
119	0.730		33	0.680																																																																																																																																																																																																																																													
3	0.727		110	0.680																																																																																																																																																																																																																																													
5	0.725		17	0.673																																																																																																																																																																																																																																													
114	0.720		104	0.670																																																																																																																																																																																																																																													
20	0.719		107	0.667																																																																																																																																																																																																																																													
31	0.711		120	0.667																																																																																																																																																																																																																																													
1	0.710		19	0.666																																																																																																																																																																																																																																													
27	0.710		24	0.658																																																																																																																																																																																																																																													
115	0.710		16	0.650																																																																																																																																																																																																																																													
36	0.708		117	0.620																																																																																																																																																																																																																																													
7	0.705		10	0.570																																																																																																																																																																																																																																													
21	0.702		113	0.570																																																																																																																																																																																																																																													
30	0.700		111	0.566																																																																																																																																																																																																																																													
26	0.698		108	0.500																																																																																																																																																																																																																																													
22	0.693		103	0.420																																																																																																																																																																																																																																													
13	0.691		40	0.333 UNUSED																																																																																																																																																																																																																																													
8	0.690		116	0.326 UNUSED																																																																																																																																																																																																																																													
11	0.690		105	0.140 UNUSED																																																																																																																																																																																																																																													
<p>SODIUM SAMPLE NO.: G3 THEORETICAL VALUE 0.872 UNIT: µg Na/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 48 ARITHMETIC MEAN VALUE: 0.804 MEDIAN: 0.860 STANDARD DEVIATION: 0.172 REL. ST. DEVIATION (%): 21.385</p> <p>RUN 2: NUMBER OF LABORATORIES: 44 ARITHMETIC MEAN VALUE: 0.849 MEDIAN: 0.869 STANDARD DEVIATION: 0.081 REL. ST. DEVIATION (%): 9.540</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>32</td><td>0.980</td><td></td><td>38</td><td>0.860</td></tr> <tr><td>112</td><td>0.950</td><td></td><td>110</td><td>0.860</td></tr> <tr><td>20</td><td>0.942</td><td></td><td>11</td><td>0.859</td></tr> <tr><td>34</td><td>0.918</td><td></td><td>104</td><td>0.858</td></tr> <tr><td>5</td><td>0.910</td><td></td><td>39</td><td>0.856</td></tr> <tr><td>6</td><td>0.910</td><td></td><td>31</td><td>0.853</td></tr> <tr><td>3</td><td>0.901</td><td></td><td>33</td><td>0.850</td></tr> <tr><td>115</td><td>0.900</td><td></td><td>119</td><td>0.850</td></tr> <tr><td>22</td><td>0.893</td><td></td><td>118</td><td>0.840</td></tr> <tr><td>17</td><td>0.892</td><td></td><td>19</td><td>0.835</td></tr> <tr><td>36</td><td>0.891</td><td></td><td>120</td><td>0.829</td></tr> <tr><td>30</td><td>0.890</td><td></td><td>107</td><td>0.827</td></tr> <tr><td>21</td><td>0.888</td><td></td><td>24</td><td>0.824</td></tr> <tr><td>4</td><td>0.887</td><td></td><td>16</td><td>0.790</td></tr> <tr><td>7</td><td>0.881</td><td></td><td>117</td><td>0.780</td></tr> <tr><td>26</td><td>0.877</td><td></td><td>10</td><td>0.720</td></tr> <tr><td>27</td><td>0.875</td><td></td><td>113</td><td>0.710</td></tr> <tr><td>1</td><td>0.870</td><td></td><td>108</td><td>0.700</td></tr> <tr><td>8</td><td>0.870</td><td></td><td>111</td><td>0.698</td></tr> <tr><td>13</td><td>0.870</td><td></td><td>103</td><td>0.500</td></tr> <tr><td>15</td><td>0.870</td><td></td><td>40</td><td>0.398 UNUSED</td></tr> <tr><td>114</td><td>0.870</td><td></td><td>116</td><td>0.387 UNUSED</td></tr> <tr><td>14</td><td>0.868</td><td></td><td>37</td><td>0.244 UNUSED</td></tr> <tr><td>23</td><td>0.860</td><td></td><td>105</td><td>0.200 UNUSED</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	32	0.980		38	0.860	112	0.950		110	0.860	20	0.942		11	0.859	34	0.918		104	0.858	5	0.910		39	0.856	6	0.910		31	0.853	3	0.901		33	0.850	115	0.900		119	0.850	22	0.893		118	0.840	17	0.892		19	0.835	36	0.891		120	0.829	30	0.890		107	0.827	21	0.888		24	0.824	4	0.887		16	0.790	7	0.881		117	0.780	26	0.877		10	0.720	27	0.875		113	0.710	1	0.870		108	0.700	8	0.870		111	0.698	13	0.870		103	0.500	15	0.870		40	0.398 UNUSED	114	0.870		116	0.387 UNUSED	14	0.868		37	0.244 UNUSED	23	0.860		105	0.200 UNUSED	<p>SODIUM SAMPLE NO.: G4 THEORETICAL VALUE 0.295 UNIT: µg Na/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 48 ARITHMETIC MEAN VALUE: 0.273 MEDIAN: 0.290 STANDARD DEVIATION: 0.060 REL. ST. DEVIATION (%): 21.780</p> <p>RUN 2: NUMBER OF LABORATORIES: 44 ARITHMETIC MEAN VALUE: 0.288 MEDIAN: 0.290 STANDARD DEVIATION: 0.034 REL. ST. DEVIATION (%): 11.714</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>112</td><td>0.390</td><td></td><td>104</td><td>0.290</td></tr> <tr><td>37</td><td>0.352</td><td></td><td>19</td><td>0.286</td></tr> <tr><td>34</td><td>0.345</td><td></td><td>23</td><td>0.285</td></tr> <tr><td>115</td><td>0.330</td><td></td><td>24</td><td>0.284</td></tr> <tr><td>4</td><td>0.321</td><td></td><td>11</td><td>0.281</td></tr> <tr><td>118</td><td>0.320</td><td></td><td>14</td><td>0.280</td></tr> <tr><td>6</td><td>0.310</td><td></td><td>33</td><td>0.280</td></tr> <tr><td>31</td><td>0.308</td><td></td><td>120</td><td>0.276</td></tr> <tr><td>21</td><td>0.306</td><td></td><td>20</td><td>0.273</td></tr> <tr><td>27</td><td>0.304</td><td></td><td>1</td><td>0.270</td></tr> <tr><td>36</td><td>0.302</td><td></td><td>16</td><td>0.270</td></tr> <tr><td>5</td><td>0.301</td><td></td><td>110</td><td>0.260</td></tr> <tr><td>3</td><td>0.300</td><td></td><td>117</td><td>0.260</td></tr> <tr><td>15</td><td>0.300</td><td></td><td>119</td><td>0.260</td></tr> <tr><td>30</td><td>0.300</td><td></td><td>17</td><td>0.241</td></tr> <tr><td>32</td><td>0.300</td><td></td><td>22</td><td>0.241</td></tr> <tr><td>114</td><td>0.300</td><td></td><td>111</td><td>0.238</td></tr> <tr><td>7</td><td>0.297</td><td></td><td>113</td><td>0.230</td></tr> <tr><td>13</td><td>0.295</td><td></td><td>10</td><td>0.220</td></tr> <tr><td>107</td><td>0.295</td><td></td><td>103</td><td>0.210</td></tr> <tr><td>26</td><td>0.293</td><td></td><td>116</td><td>0.153 UNUSED</td></tr> <tr><td>39</td><td>0.291</td><td></td><td>40</td><td>0.139 UNUSED</td></tr> <tr><td>8</td><td>0.290</td><td></td><td>108</td><td>0.100 UNUSED</td></tr> <tr><td>38</td><td>0.290</td><td></td><td>105</td><td>0.060 UNUSED</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	112	0.390		104	0.290	37	0.352		19	0.286	34	0.345		23	0.285	115	0.330		24	0.284	4	0.321		11	0.281	118	0.320		14	0.280	6	0.310		33	0.280	31	0.308		120	0.276	21	0.306		20	0.273	27	0.304		1	0.270	36	0.302		16	0.270	5	0.301		110	0.260	3	0.300		117	0.260	15	0.300		119	0.260	30	0.300		17	0.241	32	0.300		22	0.241	114	0.300		111	0.238	7	0.297		113	0.230	13	0.295		10	0.220	107	0.295		103	0.210	26	0.293		116	0.153 UNUSED	39	0.291		40	0.139 UNUSED	8	0.290		108	0.100 UNUSED	38	0.290		105	0.060 UNUSED
32	0.980		38	0.860																																																																																																																																																																																																																																													
112	0.950		110	0.860																																																																																																																																																																																																																																													
20	0.942		11	0.859																																																																																																																																																																																																																																													
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22	0.893		118	0.840																																																																																																																																																																																																																																													
17	0.892		19	0.835																																																																																																																																																																																																																																													
36	0.891		120	0.829																																																																																																																																																																																																																																													
30	0.890		107	0.827																																																																																																																																																																																																																																													
21	0.888		24	0.824																																																																																																																																																																																																																																													
4	0.887		16	0.790																																																																																																																																																																																																																																													
7	0.881		117	0.780																																																																																																																																																																																																																																													
26	0.877		10	0.720																																																																																																																																																																																																																																													
27	0.875		113	0.710																																																																																																																																																																																																																																													
1	0.870		108	0.700																																																																																																																																																																																																																																													
8	0.870		111	0.698																																																																																																																																																																																																																																													
13	0.870		103	0.500																																																																																																																																																																																																																																													
15	0.870		40	0.398 UNUSED																																																																																																																																																																																																																																													
114	0.870		116	0.387 UNUSED																																																																																																																																																																																																																																													
14	0.868		37	0.244 UNUSED																																																																																																																																																																																																																																													
23	0.860		105	0.200 UNUSED																																																																																																																																																																																																																																													
112	0.390		104	0.290																																																																																																																																																																																																																																													
37	0.352		19	0.286																																																																																																																																																																																																																																													
34	0.345		23	0.285																																																																																																																																																																																																																																													
115	0.330		24	0.284																																																																																																																																																																																																																																													
4	0.321		11	0.281																																																																																																																																																																																																																																													
118	0.320		14	0.280																																																																																																																																																																																																																																													
6	0.310		33	0.280																																																																																																																																																																																																																																													
31	0.308		120	0.276																																																																																																																																																																																																																																													
21	0.306		20	0.273																																																																																																																																																																																																																																													
27	0.304		1	0.270																																																																																																																																																																																																																																													
36	0.302		16	0.270																																																																																																																																																																																																																																													
5	0.301		110	0.260																																																																																																																																																																																																																																													
3	0.300		117	0.260																																																																																																																																																																																																																																													
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7	0.297		113	0.230																																																																																																																																																																																																																																													
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107	0.295		103	0.210																																																																																																																																																																																																																																													
26	0.293		116	0.153 UNUSED																																																																																																																																																																																																																																													
39	0.291		40	0.139 UNUSED																																																																																																																																																																																																																																													
8	0.290		108	0.100 UNUSED																																																																																																																																																																																																																																													
38	0.290		105	0.060 UNUSED																																																																																																																																																																																																																																													

Table 10: Analytical results for magnesium in precipitations samples.

<p>MAGNESIUM SAMPLE NO.: G1 THEORETICAL VALUE 0.116 UNIT: µg Mg/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 46 ARITHMETIC MEAN VALUE: 0.114 MEDIAN: 0.111 STANDARD DEVIATION: 0.027 REL. ST. DEVIATION (%): 23.510</p> <p>RUN 2: NUMBER OF LABORATORIES: 44 ARITHMETIC MEAN VALUE: 0.112 MEDIAN: 0.111 STANDARD DEVIATION: 0.013 REL. ST. DEVIATION (%): 11.936</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>33</td><td>0.260</td><td>UNUSED</td><td>1</td><td>0.110</td></tr> <tr><td>21</td><td>0.135</td><td></td><td>4</td><td>0.110</td></tr> <tr><td>30</td><td>0.130</td><td></td><td>8</td><td>0.110</td></tr> <tr><td>37</td><td>0.130</td><td></td><td>15</td><td>0.110</td></tr> <tr><td>112</td><td>0.130</td><td></td><td>39</td><td>0.110</td></tr> <tr><td>14</td><td>0.128</td><td></td><td>113</td><td>0.110</td></tr> <tr><td>7</td><td>0.127</td><td></td><td>114</td><td>0.110</td></tr> <tr><td>17</td><td>0.123</td><td></td><td>16</td><td>0.109</td></tr> <tr><td>34</td><td>0.123</td><td></td><td>111</td><td>0.109</td></tr> <tr><td>13</td><td>0.122</td><td></td><td>118</td><td>0.108</td></tr> <tr><td>104</td><td>0.122</td><td></td><td>116</td><td>0.106</td></tr> <tr><td>11</td><td>0.120</td><td></td><td>120</td><td>0.106</td></tr> <tr><td>105</td><td>0.120</td><td></td><td>22</td><td>0.105</td></tr> <tr><td>115</td><td>0.120</td><td></td><td>107</td><td>0.105</td></tr> <tr><td>5</td><td>0.119</td><td></td><td>24</td><td>0.102</td></tr> <tr><td>20</td><td>0.118</td><td></td><td>10</td><td>0.100</td></tr> <tr><td>3</td><td>0.116</td><td></td><td>38</td><td>0.100</td></tr> <tr><td>26</td><td>0.116</td><td></td><td>6</td><td>0.090</td></tr> <tr><td>36</td><td>0.116</td><td></td><td>110</td><td>0.090</td></tr> <tr><td>19</td><td>0.115</td><td></td><td>117</td><td>0.090</td></tr> <tr><td>31</td><td>0.115</td><td></td><td>103</td><td>0.080</td></tr> <tr><td>23</td><td>0.111</td><td></td><td>40</td><td>0.070</td></tr> <tr><td>27</td><td>0.111</td><td></td><td>108</td><td>0.060</td></tr> <tr><td></td><td></td><td>UNUSED</td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	33	0.260	UNUSED	1	0.110	21	0.135		4	0.110	30	0.130		8	0.110	37	0.130		15	0.110	112	0.130		39	0.110	14	0.128		113	0.110	7	0.127		114	0.110	17	0.123		16	0.109	34	0.123		111	0.109	13	0.122		118	0.108	104	0.122		116	0.106	11	0.120		120	0.106	105	0.120		22	0.105	115	0.120		107	0.105	5	0.119		24	0.102	20	0.118		10	0.100	3	0.116		38	0.100	26	0.116		6	0.090	36	0.116		110	0.090	19	0.115		117	0.090	31	0.115		103	0.080	23	0.111		40	0.070	27	0.111		108	0.060			UNUSED			<p>MAGNESIUM SAMPLE NO.: G2 THEORETICAL VALUE 0.232 UNIT: µg Mg/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 47 ARITHMETIC MEAN VALUE: 0.241 MEDIAN: 0.229 STANDARD DEVIATION: 0.118 REL. ST. DEVIATION (%): 48.910</p> <p>RUN 2: NUMBER OF LABORATORIES: 46 ARITHMETIC MEAN VALUE: 0.224 MEDIAN: 0.229 STANDARD DEVIATION: 0.022 REL. ST. DEVIATION (%): 9.640</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>33</td><td>1.017</td><td>UNUSED</td><td>16</td><td>0.228</td></tr> <tr><td>105</td><td>0.260</td><td></td><td>31</td><td>0.228</td></tr> <tr><td>17</td><td>0.249</td><td></td><td>23</td><td>0.226</td></tr> <tr><td>14</td><td>0.248</td><td></td><td>120</td><td>0.224</td></tr> <tr><td>21</td><td>0.247</td><td></td><td>20</td><td>0.223</td></tr> <tr><td>7</td><td>0.246</td><td></td><td>22</td><td>0.223</td></tr> <tr><td>37</td><td>0.245</td><td></td><td>39</td><td>0.223</td></tr> <tr><td>11</td><td>0.240</td><td></td><td>4</td><td>0.220</td></tr> <tr><td>30</td><td>0.240</td><td></td><td>27</td><td>0.220</td></tr> <tr><td>34</td><td>0.240</td><td></td><td>38</td><td>0.220</td></tr> <tr><td>113</td><td>0.240</td><td></td><td>110</td><td>0.220</td></tr> <tr><td>115</td><td>0.240</td><td></td><td>111</td><td>0.218</td></tr> <tr><td>5</td><td>0.235</td><td></td><td>116</td><td>0.217</td></tr> <tr><td>36</td><td>0.235</td><td></td><td>19</td><td>0.213</td></tr> <tr><td>104</td><td>0.234</td><td></td><td>107</td><td>0.211</td></tr> <tr><td>3</td><td>0.233</td><td></td><td>6</td><td>0.210</td></tr> <tr><td>13</td><td>0.233</td><td></td><td>10</td><td>0.210</td></tr> <tr><td>1</td><td>0.230</td><td></td><td>117</td><td>0.200</td></tr> <tr><td>8</td><td>0.230</td><td></td><td>119</td><td>0.200</td></tr> <tr><td>15</td><td>0.230</td><td></td><td>24</td><td>0.192</td></tr> <tr><td>26</td><td>0.230</td><td></td><td>103</td><td>0.180</td></tr> <tr><td>114</td><td>0.230</td><td></td><td>108</td><td>0.140</td></tr> <tr><td>112</td><td>0.230</td><td></td><td>40</td><td>0.170</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	33	1.017	UNUSED	16	0.228	105	0.260		31	0.228	17	0.249		23	0.226	14	0.248		120	0.224	21	0.247		20	0.223	7	0.246		22	0.223	37	0.245		39	0.223	11	0.240		4	0.220	30	0.240		27	0.220	34	0.240		38	0.220	113	0.240		110	0.220	115	0.240		111	0.218	5	0.235		116	0.217	36	0.235		19	0.213	104	0.234		107	0.211	3	0.233		6	0.210	13	0.233		10	0.210	1	0.230		117	0.200	8	0.230		119	0.200	15	0.230		24	0.192	26	0.230		103	0.180	114	0.230		108	0.140	112	0.230		40	0.170
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<p>MAGNESIUM SAMPLE NO.: G3 THEORETICAL VALUE 0.194 UNIT: µg Mg/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 47 ARITHMETIC MEAN VALUE: 0.187 MEDIAN: 0.190 STANDARD DEVIATION: 0.037 REL. ST. DEVIATION (%): 19.619</p> <p>RUN 2: NUMBER OF LABORATORIES: 45 ARITHMETIC MEAN VALUE: 0.185 MEDIAN: 0.190 STANDARD DEVIATION: 0.021 REL. ST. DEVIATION (%): 11.429</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>33</td><td>0.373</td><td>UNUSED</td><td>39</td><td>0.189</td></tr> <tr><td>21</td><td>0.224</td><td></td><td>118</td><td>0.188</td></tr> <tr><td>30</td><td>0.220</td><td></td><td>23</td><td>0.187</td></tr> <tr><td>105</td><td>0.220</td><td></td><td>120</td><td>0.185</td></tr> <tr><td>7</td><td>0.212</td><td></td><td>16</td><td>0.184</td></tr> <tr><td>34</td><td>0.208</td><td></td><td>27</td><td>0.183</td></tr> <tr><td>17</td><td>0.206</td><td></td><td>31</td><td>0.183</td></tr> <tr><td>104</td><td>0.202</td><td></td><td>20</td><td>0.182</td></tr> <tr><td>115</td><td>0.200</td><td></td><td>4</td><td>0.180</td></tr> <tr><td>14</td><td>0.198</td><td></td><td>38</td><td>0.180</td></tr> <tr><td>5</td><td>0.197</td><td></td><td>116</td><td>0.180</td></tr> <tr><td>11</td><td>0.195</td><td></td><td>111</td><td>0.179</td></tr> <tr><td>36</td><td>0.194</td><td></td><td>107</td><td>0.176</td></tr> <tr><td>13</td><td>0.193</td><td></td><td>6</td><td>0.170</td></tr> <tr><td>22</td><td>0.193</td><td></td><td>10</td><td>0.170</td></tr> <tr><td>26</td><td>0.192</td><td></td><td>110</td><td>0.170</td></tr> <tr><td>19</td><td>0.191</td><td></td><td>24</td><td>0.168</td></tr> <tr><td>1</td><td>0.190</td><td></td><td>117</td><td>0.160</td></tr> <tr><td>3</td><td>0.190</td><td></td><td>119</td><td>0.140</td></tr> <tr><td>8</td><td>0.190</td><td></td><td>37</td><td>0.139</td></tr> <tr><td>15</td><td>0.190</td><td></td><td>103</td><td>0.130</td></tr> <tr><td>112</td><td>0.190</td><td></td><td>40</td><td>0.125</td></tr> <tr><td>113</td><td>0.190</td><td></td><td>108</td><td>0.100</td></tr> <tr><td>114</td><td>0.190</td><td></td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	33	0.373	UNUSED	39	0.189	21	0.224		118	0.188	30	0.220		23	0.187	105	0.220		120	0.185	7	0.212		16	0.184	34	0.208		27	0.183	17	0.206		31	0.183	104	0.202		20	0.182	115	0.200		4	0.180	14	0.198		38	0.180	5	0.197		116	0.180	11	0.195		111	0.179	36	0.194		107	0.176	13	0.193		6	0.170	22	0.193		10	0.170	26	0.192		110	0.170	19	0.191		24	0.168	1	0.190		117	0.160	3	0.190		119	0.140	8	0.190		37	0.139	15	0.190		103	0.130	112	0.190		40	0.125	113	0.190		108	0.100	114	0.190				<p>MAGNESIUM SAMPLE NO.: G4 THEORETICAL VALUE 0.139 UNIT: µg Mg/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 46 ARITHMETIC MEAN VALUE: 0.140 MEDIAN: 0.138 STANDARD DEVIATION: 0.049 REL. ST. DEVIATION (%): 35.339</p> <p>RUN 2: NUMBER OF LABORATORIES: 45 ARITHMETIC MEAN VALUE: 0.133 MEDIAN: 0.138 STANDARD DEVIATION: 0.019 REL. ST. DEVIATION (%): 14.434</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>33</td><td>0.442</td><td>UNUSED</td><td>19</td><td>0.138</td></tr> <tr><td>105</td><td>0.160</td><td></td><td>14</td><td>0.137</td></tr> <tr><td>37</td><td>0.158</td><td></td><td>39</td><td>0.136</td></tr> <tr><td>30</td><td>0.150</td><td></td><td>23</td><td>0.134</td></tr> <tr><td>34</td><td>0.150</td><td></td><td>120</td><td>0.134</td></tr> <tr><td>104</td><td>0.150</td><td></td><td>22</td><td>0.133</td></tr> <tr><td>115</td><td>0.150</td><td></td><td>13</td><td>0.132</td></tr> <tr><td>7</td><td>0.149</td><td></td><td>27</td><td>0.131</td></tr> <tr><td>17</td><td>0.146</td><td></td><td>4</td><td>0.130</td></tr> <tr><td>21</td><td>0.146</td><td></td><td>8</td><td>0.130</td></tr> <tr><td>5</td><td>0.144</td><td></td><td>15</td><td>0.130</td></tr> <tr><td>11</td><td>0.143</td><td></td><td>38</td><td>0.130</td></tr> <tr><td>31</td><td>0.143</td><td></td><td>111</td><td>0.130</td></tr> <tr><td>36</td><td>0.143</td><td></td><td>116</td><td>0.129</td></tr> <tr><td>118</td><td>0.142</td><td></td><td>107</td><td>0.127</td></tr> <tr><td>1</td><td>0.140</td><td></td><td>24</td><td>0.122</td></tr> <tr><td>20</td><td>0.140</td><td></td><td>10</td><td>0.120</td></tr> <tr><td>112</td><td>0.140</td><td></td><td>110</td><td>0.120</td></tr> <tr><td>113</td><td>0.140</td><td></td><td>6</td><td>0.110</td></tr> <tr><td>114</td><td>0.140</td><td></td><td>117</td><td>0.110</td></tr> <tr><td>16</td><td>0.139</td><td></td><td>40</td><td>0.090</td></tr> <tr><td>26</td><td>0.139</td><td></td><td>103</td><td>0.090</td></tr> <tr><td>3</td><td>0.138</td><td></td><td>108</td><td>0.050</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	33	0.442	UNUSED	19	0.138	105	0.160		14	0.137	37	0.158		39	0.136	30	0.150		23	0.134	34	0.150		120	0.134	104	0.150		22	0.133	115	0.150		13	0.132	7	0.149		27	0.131	17	0.146		4	0.130	21	0.146		8	0.130	5	0.144		15	0.130	11	0.143		38	0.130	31	0.143		111	0.130	36	0.143		116	0.129	118	0.142		107	0.127	1	0.140		24	0.122	20	0.140		10	0.120	112	0.140		110	0.120	113	0.140		6	0.110	114	0.140		117	0.110	16	0.139		40	0.090	26	0.139		103	0.090	3	0.138		108	0.050
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19	0.191		24	0.168																																																																																																																																																																																																																																								
1	0.190		117	0.160																																																																																																																																																																																																																																								
3	0.190		119	0.140																																																																																																																																																																																																																																								
8	0.190		37	0.139																																																																																																																																																																																																																																								
15	0.190		103	0.130																																																																																																																																																																																																																																								
112	0.190		40	0.125																																																																																																																																																																																																																																								
113	0.190		108	0.100																																																																																																																																																																																																																																								
114	0.190																																																																																																																																																																																																																																											
33	0.442	UNUSED	19	0.138																																																																																																																																																																																																																																								
105	0.160		14	0.137																																																																																																																																																																																																																																								
37	0.158		39	0.136																																																																																																																																																																																																																																								
30	0.150		23	0.134																																																																																																																																																																																																																																								
34	0.150		120	0.134																																																																																																																																																																																																																																								
104	0.150		22	0.133																																																																																																																																																																																																																																								
115	0.150		13	0.132																																																																																																																																																																																																																																								
7	0.149		27	0.131																																																																																																																																																																																																																																								
17	0.146		4	0.130																																																																																																																																																																																																																																								
21	0.146		8	0.130																																																																																																																																																																																																																																								
5	0.144		15	0.130																																																																																																																																																																																																																																								
11	0.143		38	0.130																																																																																																																																																																																																																																								
31	0.143		111	0.130																																																																																																																																																																																																																																								
36	0.143		116	0.129																																																																																																																																																																																																																																								
118	0.142		107	0.127																																																																																																																																																																																																																																								
1	0.140		24	0.122																																																																																																																																																																																																																																								
20	0.140		10	0.120																																																																																																																																																																																																																																								
112	0.140		110	0.120																																																																																																																																																																																																																																								
113	0.140		6	0.110																																																																																																																																																																																																																																								
114	0.140		117	0.110																																																																																																																																																																																																																																								
16	0.139		40	0.090																																																																																																																																																																																																																																								
26	0.139		103	0.090																																																																																																																																																																																																																																								
3	0.138		108	0.050																																																																																																																																																																																																																																								

Table 11: 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: 47 ARITHMETIC MEAN VALUE: 0.329 MEDIAN: 0.330 STANDARD DEVIATION: 0.048 REL. ST. DEVIATION (%): 14.558</p> <p>RUN 2: NUMBER OF LABORATORIES: 46 ARITHMETIC MEAN VALUE: 0.325 MEDIAN: 0.330 STANDARD DEVIATION: 0.042 REL. ST. DEVIATION (%): 12.809</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>104</td><td>0.492</td><td>UNUSED</td><td>6</td><td>0.330</td></tr> <tr><td>21</td><td>0.405</td><td></td><td>118</td><td>0.330</td></tr> <tr><td>30</td><td>0.400</td><td></td><td>116</td><td>0.328</td></tr> <tr><td>38</td><td>0.400</td><td></td><td>111</td><td>0.314</td></tr> <tr><td>34</td><td>0.398</td><td></td><td>107</td><td>0.311</td></tr> <tr><td>7</td><td>0.389</td><td></td><td>4</td><td>0.310</td></tr> <tr><td>13</td><td>0.371</td><td></td><td>105</td><td>0.310</td></tr> <tr><td>8</td><td>0.370</td><td></td><td>119</td><td>0.310</td></tr> <tr><td>15</td><td>0.360</td><td></td><td>17</td><td>0.308</td></tr> <tr><td>112</td><td>0.360</td><td></td><td>120</td><td>0.301</td></tr> <tr><td>37</td><td>0.351</td><td></td><td>31</td><td>0.300</td></tr> <tr><td>5</td><td>0.348</td><td></td><td>110</td><td>0.300</td></tr> <tr><td>36</td><td>0.345</td><td></td><td>3</td><td>0.297</td></tr> <tr><td>26</td><td>0.343</td><td></td><td>16</td><td>0.290</td></tr> <tr><td>27</td><td>0.343</td><td></td><td>22</td><td>0.290</td></tr> <tr><td>39</td><td>0.341</td><td></td><td>32</td><td>0.290</td></tr> <tr><td>19</td><td>0.340</td><td></td><td>20</td><td>0.285</td></tr> <tr><td>113</td><td>0.340</td><td></td><td>117</td><td>0.280</td></tr> <tr><td>114</td><td>0.340</td><td></td><td>10</td><td>0.260</td></tr> <tr><td>115</td><td>0.340</td><td></td><td>24</td><td>0.257</td></tr> <tr><td>14</td><td>0.339</td><td></td><td>40</td><td>0.248</td></tr> <tr><td>23</td><td>0.338</td><td></td><td>33</td><td>0.240</td></tr> <tr><td>11</td><td>0.334</td><td></td><td>103</td><td>0.240</td></tr> <tr><td>1</td><td>0.330</td><td></td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	104	0.492	UNUSED	6	0.330	21	0.405		118	0.330	30	0.400		116	0.328	38	0.400		111	0.314	34	0.398		107	0.311	7	0.389		4	0.310	13	0.371		105	0.310	8	0.370		119	0.310	15	0.360		17	0.308	112	0.360		120	0.301	37	0.351		31	0.300	5	0.348		110	0.300	36	0.345		3	0.297	26	0.343		16	0.290	27	0.343		22	0.290	39	0.341		32	0.290	19	0.340		20	0.285	113	0.340		117	0.280	114	0.340		10	0.260	115	0.340		24	0.257	14	0.339		40	0.248	23	0.338		33	0.240	11	0.334		103	0.240	1	0.330				<p>CALCIUM SAMPLE NO.: G2 THEORETICAL VALUE 0.239 UNIT: µg Ca/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 47 ARITHMETIC MEAN VALUE: 0.255 MEDIAN: 0.244 STANDARD DEVIATION: 0.073 REL. ST. DEVIATION (%): 28.807</p> <p>RUN 2: NUMBER OF LABORATORIES: 44 ARITHMETIC MEAN VALUE: 0.238 MEDIAN: 0.240 STANDARD DEVIATION: 0.033 REL. ST. DEVIATION (%): 13.769</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>113</td><td>0.610</td><td>UNUSED</td><td>16</td><td>0.240</td></tr> <tr><td>104</td><td>0.448</td><td>UNUSED</td><td>30</td><td>0.240</td></tr> <tr><td>34</td><td>0.415</td><td>UNUSED</td><td>112</td><td>0.240</td></tr> <tr><td>22</td><td>0.342</td><td></td><td>23</td><td>0.236</td></tr> <tr><td>33</td><td>0.310</td><td></td><td>120</td><td>0.234</td></tr> <tr><td>114</td><td>0.300</td><td></td><td>107</td><td>0.231</td></tr> <tr><td>15</td><td>0.280</td><td></td><td>111</td><td>0.231</td></tr> <tr><td>38</td><td>0.270</td><td></td><td>116</td><td>0.231</td></tr> <tr><td>7</td><td>0.260</td><td></td><td>1</td><td>0.230</td></tr> <tr><td>8</td><td>0.260</td><td></td><td>4</td><td>0.230</td></tr> <tr><td>11</td><td>0.256</td><td></td><td>31</td><td>0.230</td></tr> <tr><td>39</td><td>0.256</td><td></td><td>105</td><td>0.220</td></tr> <tr><td>13</td><td>0.254</td><td></td><td>110</td><td>0.220</td></tr> <tr><td>36</td><td>0.252</td><td></td><td>17</td><td>0.213</td></tr> <tr><td>20</td><td>0.251</td><td></td><td>24</td><td>0.212</td></tr> <tr><td>37</td><td>0.251</td><td></td><td>40</td><td>0.203</td></tr> <tr><td>26</td><td>0.250</td><td></td><td>3</td><td>0.201</td></tr> <tr><td>115</td><td>0.250</td><td></td><td>6</td><td>0.200</td></tr> <tr><td>118</td><td>0.250</td><td></td><td>117</td><td>0.200</td></tr> <tr><td>19</td><td>0.249</td><td></td><td>119</td><td>0.200</td></tr> <tr><td>5</td><td>0.245</td><td></td><td>32</td><td>0.180</td></tr> <tr><td>14</td><td>0.244</td><td></td><td>103</td><td>0.180</td></tr> <tr><td>21</td><td>0.244</td><td></td><td>10</td><td>0.170</td></tr> <tr><td>27</td><td>0.244</td><td></td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	113	0.610	UNUSED	16	0.240	104	0.448	UNUSED	30	0.240	34	0.415	UNUSED	112	0.240	22	0.342		23	0.236	33	0.310		120	0.234	114	0.300		107	0.231	15	0.280		111	0.231	38	0.270		116	0.231	7	0.260		1	0.230	8	0.260		4	0.230	11	0.256		31	0.230	39	0.256		105	0.220	13	0.254		110	0.220	36	0.252		17	0.213	20	0.251		24	0.212	37	0.251		40	0.203	26	0.250		3	0.201	115	0.250		6	0.200	118	0.250		117	0.200	19	0.249		119	0.200	5	0.245		32	0.180	14	0.244		103	0.180	21	0.244		10	0.170	27	0.244								
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23	0.338		33	0.240																																																																																																																																																																																																																																																		
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<p>CALCIUM SAMPLE NO.: G3 THEORETICAL VALUE 0.383 UNIT: µg Ca/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 48 ARITHMETIC MEAN VALUE: 0.376 MEDIAN: 0.381 STANDARD DEVIATION: 0.070 REL. ST. DEVIATION (%): 18.617</p> <p>RUN 2: NUMBER OF LABORATORIES: 45 ARITHMETIC MEAN VALUE: 0.375 MEDIAN: 0.380 STANDARD DEVIATION: 0.044 REL. ST. DEVIATION (%): 11.756</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>104</td><td>0.551</td><td>UNUSED</td><td>118</td><td>0.380</td></tr> <tr><td>22</td><td>0.517</td><td>UNUSED</td><td>19</td><td>0.379</td></tr> <tr><td>38</td><td>0.450</td><td></td><td>23</td><td>0.374</td></tr> <tr><td>114</td><td>0.450</td><td></td><td>1</td><td>0.370</td></tr> <tr><td>21</td><td>0.447</td><td></td><td>6</td><td>0.370</td></tr> <tr><td>30</td><td>0.440</td><td></td><td>120</td><td>0.364</td></tr> <tr><td>7</td><td>0.435</td><td></td><td>107</td><td>0.361</td></tr> <tr><td>34</td><td>0.434</td><td></td><td>116</td><td>0.361</td></tr> <tr><td>115</td><td>0.420</td><td></td><td>119</td><td>0.360</td></tr> <tr><td>8</td><td>0.410</td><td></td><td>37</td><td>0.356</td></tr> <tr><td>105</td><td>0.410</td><td></td><td>111</td><td>0.355</td></tr> <tr><td>17</td><td>0.407</td><td></td><td>20</td><td>0.351</td></tr> <tr><td>13</td><td>0.401</td><td></td><td>4</td><td>0.350</td></tr> <tr><td>15</td><td>0.400</td><td></td><td>110</td><td>0.350</td></tr> <tr><td>32</td><td>0.400</td><td></td><td>16</td><td>0.338</td></tr> <tr><td>36</td><td>0.399</td><td></td><td>31</td><td>0.333</td></tr> <tr><td>26</td><td>0.396</td><td></td><td>3</td><td>0.332</td></tr> <tr><td>5</td><td>0.394</td><td></td><td>24</td><td>0.324</td></tr> <tr><td>27</td><td>0.393</td><td></td><td>117</td><td>0.320</td></tr> <tr><td>39</td><td>0.392</td><td></td><td>40</td><td>0.306</td></tr> <tr><td>112</td><td>0.390</td><td></td><td>10</td><td>0.280</td></tr> <tr><td>113</td><td>0.390</td><td></td><td>33</td><td>0.280</td></tr> <tr><td>11</td><td>0.389</td><td></td><td>103</td><td>0.270</td></tr> <tr><td>14</td><td>0.381</td><td></td><td>108</td><td>0.070</td></tr> <tr><td></td><td></td><td>UNUSED</td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	104	0.551	UNUSED	118	0.380	22	0.517	UNUSED	19	0.379	38	0.450		23	0.374	114	0.450		1	0.370	21	0.447		6	0.370	30	0.440		120	0.364	7	0.435		107	0.361	34	0.434		116	0.361	115	0.420		119	0.360	8	0.410		37	0.356	105	0.410		111	0.355	17	0.407		20	0.351	13	0.401		4	0.350	15	0.400		110	0.350	32	0.400		16	0.338	36	0.399		31	0.333	26	0.396		3	0.332	5	0.394		24	0.324	27	0.393		117	0.320	39	0.392		40	0.306	112	0.390		10	0.280	113	0.390		33	0.280	11	0.389		103	0.270	14	0.381		108	0.070			UNUSED			<p>CALCIUM SAMPLE NO.: G4 THEORETICAL VALUE 0.287 UNIT: µg Ca/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 47 ARITHMETIC MEAN VALUE: 0.284 MEDIAN: 0.289 STANDARD DEVIATION: 0.046 REL. ST. DEVIATION (%): 16.102</p> <p>RUN 2: NUMBER OF LABORATORIES: 43 ARITHMETIC MEAN VALUE: 0.279 MEDIAN: 0.288 STANDARD DEVIATION: 0.029 REL. ST. DEVIATION (%): 10.294</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>104</td><td>0.426</td><td>UNUSED</td><td>17</td><td>0.288</td></tr> <tr><td>34</td><td>0.400</td><td>UNUSED</td><td>19</td><td>0.287</td></tr> <tr><td>113</td><td>0.380</td><td>UNUSED</td><td>22</td><td>0.287</td></tr> <tr><td>114</td><td>0.330</td><td></td><td>23</td><td>0.282</td></tr> <tr><td>15</td><td>0.320</td><td></td><td>116</td><td>0.281</td></tr> <tr><td>115</td><td>0.320</td><td></td><td>4</td><td>0.280</td></tr> <tr><td>118</td><td>0.320</td><td></td><td>16</td><td>0.280</td></tr> <tr><td>38</td><td>0.310</td><td></td><td>107</td><td>0.275</td></tr> <tr><td>7</td><td>0.305</td><td></td><td>120</td><td>0.273</td></tr> <tr><td>30</td><td>0.300</td><td></td><td>1</td><td>0.270</td></tr> <tr><td>37</td><td>0.300</td><td></td><td>111</td><td>0.269</td></tr> <tr><td>105</td><td>0.300</td><td></td><td>31</td><td>0.265</td></tr> <tr><td>11</td><td>0.298</td><td></td><td>110</td><td>0.260</td></tr> <tr><td>21</td><td>0.298</td><td></td><td>6</td><td>0.250</td></tr> <tr><td>39</td><td>0.298</td><td></td><td>10</td><td>0.240</td></tr> <tr><td>5</td><td>0.295</td><td></td><td>33</td><td>0.240</td></tr> <tr><td>27</td><td>0.295</td><td></td><td>40</td><td>0.236</td></tr> <tr><td>14</td><td>0.292</td><td></td><td>3</td><td>0.234</td></tr> <tr><td>26</td><td>0.292</td><td></td><td>24</td><td>0.232</td></tr> <tr><td>8</td><td>0.290</td><td></td><td>117</td><td>0.230</td></tr> <tr><td>36</td><td>0.290</td><td></td><td>119</td><td>0.220</td></tr> <tr><td>112</td><td>0.290</td><td></td><td>103</td><td>0.210</td></tr> <tr><td>13</td><td>0.289</td><td></td><td>32</td><td>0.150</td></tr> <tr><td>20</td><td>0.289</td><td></td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	104	0.426	UNUSED	17	0.288	34	0.400	UNUSED	19	0.287	113	0.380	UNUSED	22	0.287	114	0.330		23	0.282	15	0.320		116	0.281	115	0.320		4	0.280	118	0.320		16	0.280	38	0.310		107	0.275	7	0.305		120	0.273	30	0.300		1	0.270	37	0.300		111	0.269	105	0.300		31	0.265	11	0.298		110	0.260	21	0.298		6	0.250	39	0.298		10	0.240	5	0.295		33	0.240	27	0.295		40	0.236	14	0.292		3	0.234	26	0.292		24	0.232	8	0.290		117	0.230	36	0.290		119	0.220	112	0.290		103	0.210	13	0.289		32	0.150	20	0.289			
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Table 12: Analytical results for potassium in precipitations samples.

<p>POTASSIUM SAMPLE NO.: G1 THEORETICAL VALUE 0.127 UNIT: µg K/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 46 ARITHMETIC MEAN VALUE: 0.147 MEDIAN: 0.127 STANDARD DEVIATION: 0.138 REL. ST. DEVIATION (%): 94.165</p> <p>RUN 2: NUMBER OF LABORATORIES: 45 ARITHMETIC MEAN VALUE: 0.127 MEDIAN: 0.127 STANDARD DEVIATION: 0.034 REL. ST. DEVIATION (%): 27.129</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>34</td><td>1.034</td><td>UNUSED</td><td>27</td><td>0.127</td></tr> <tr><td>11</td><td>0.266</td><td></td><td>31</td><td>0.127</td></tr> <tr><td>112</td><td>0.230</td><td></td><td>13</td><td>0.125</td></tr> <tr><td>15</td><td>0.160</td><td></td><td>36</td><td>0.121</td></tr> <tr><td>37</td><td>0.152</td><td></td><td>4</td><td>0.120</td></tr> <tr><td>104</td><td>0.148</td><td></td><td>8</td><td>0.120</td></tr> <tr><td>14</td><td>0.147</td><td></td><td>24</td><td>0.120</td></tr> <tr><td>20</td><td>0.141</td><td></td><td>33</td><td>0.120</td></tr> <tr><td>6</td><td>0.140</td><td></td><td>7</td><td>0.119</td></tr> <tr><td>117</td><td>0.140</td><td></td><td>23</td><td>0.119</td></tr> <tr><td>118</td><td>0.140</td><td></td><td>107</td><td>0.115</td></tr> <tr><td>19</td><td>0.138</td><td></td><td>16</td><td>0.110</td></tr> <tr><td>26</td><td>0.135</td><td></td><td>30</td><td>0.110</td></tr> <tr><td>3</td><td>0.133</td><td></td><td>105</td><td>0.110</td></tr> <tr><td>116</td><td>0.133</td><td></td><td>120</td><td>0.108</td></tr> <tr><td>10</td><td>0.130</td><td></td><td>32</td><td>0.105</td></tr> <tr><td>22</td><td>0.130</td><td></td><td>111</td><td>0.105</td></tr> <tr><td>38</td><td>0.130</td><td></td><td>21</td><td>0.104</td></tr> <tr><td>110</td><td>0.130</td><td></td><td>1</td><td>0.100</td></tr> <tr><td>114</td><td>0.130</td><td></td><td>40</td><td>0.099</td></tr> <tr><td>115</td><td>0.130</td><td></td><td>103</td><td>0.090</td></tr> <tr><td>39</td><td>0.128</td><td></td><td>108</td><td>0.050</td></tr> <tr><td>5</td><td>0.127</td><td></td><td>17</td><td>0.046</td></tr> <tr><td>33</td><td>0.250</td><td></td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	34	1.034	UNUSED	27	0.127	11	0.266		31	0.127	112	0.230		13	0.125	15	0.160		36	0.121	37	0.152		4	0.120	104	0.148		8	0.120	14	0.147		24	0.120	20	0.141		33	0.120	6	0.140		7	0.119	117	0.140		23	0.119	118	0.140		107	0.115	19	0.138		16	0.110	26	0.135		30	0.110	3	0.133		105	0.110	116	0.133		120	0.108	10	0.130		32	0.105	22	0.130		111	0.105	38	0.130		21	0.104	110	0.130		1	0.100	114	0.130		40	0.099	115	0.130		103	0.090	39	0.128		108	0.050	5	0.127		17	0.046	33	0.250				<p>POTASSIUM SAMPLE NO.: G2 THEORETICAL VALUE 0.255 UNIT: µg K/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 47 ARITHMETIC MEAN VALUE: 0.267 MEDIAN: 0.250 STANDARD DEVIATION: 0.142 REL. ST. DEVIATION (%): 53.024</p> <p>RUN 2: NUMBER OF LABORATORIES: 46 ARITHMETIC MEAN VALUE: 0.248 MEDIAN: 0.250 STANDARD DEVIATION: 0.048 REL. ST. DEVIATION (%): 19.200</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>34</td><td>1.165</td><td>UNUSED</td><td>38</td><td>0.250</td></tr> <tr><td>22</td><td>0.381</td><td></td><td>116</td><td>0.250</td></tr> <tr><td>11</td><td>0.374</td><td></td><td>119</td><td>0.250</td></tr> <tr><td>114</td><td>0.330</td><td></td><td>120</td><td>0.250</td></tr> <tr><td>15</td><td>0.310</td><td></td><td>7</td><td>0.248</td></tr> <tr><td>117</td><td>0.300</td><td></td><td>23</td><td>0.243</td></tr> <tr><td>37</td><td>0.281</td><td></td><td>36</td><td>0.243</td></tr> <tr><td>20</td><td>0.277</td><td></td><td>4</td><td>0.240</td></tr> <tr><td>6</td><td>0.270</td><td></td><td>8</td><td>0.240</td></tr> <tr><td>112</td><td>0.270</td><td></td><td>10</td><td>0.240</td></tr> <tr><td>14</td><td>0.265</td><td></td><td>30</td><td>0.240</td></tr> <tr><td>107</td><td>0.262</td><td></td><td>24</td><td>0.239</td></tr> <tr><td>115</td><td>0.260</td><td></td><td>1</td><td>0.230</td></tr> <tr><td>118</td><td>0.260</td><td></td><td>105</td><td>0.220</td></tr> <tr><td>39</td><td>0.257</td><td></td><td>111</td><td>0.216</td></tr> <tr><td>3</td><td>0.255</td><td></td><td>21</td><td>0.213</td></tr> <tr><td>26</td><td>0.255</td><td></td><td>32</td><td>0.210</td></tr> <tr><td>27</td><td>0.255</td><td></td><td>103</td><td>0.200</td></tr> <tr><td>13</td><td>0.254</td><td></td><td>16</td><td>0.196</td></tr> <tr><td>5</td><td>0.253</td><td></td><td>40</td><td>0.185</td></tr> <tr><td>31</td><td>0.253</td><td></td><td>17</td><td>0.185</td></tr> <tr><td>104</td><td>0.253</td><td></td><td>108</td><td>0.130</td></tr> <tr><td>19</td><td>0.252</td><td></td><td>110</td><td>0.110</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	34	1.165	UNUSED	38	0.250	22	0.381		116	0.250	11	0.374		119	0.250	114	0.330		120	0.250	15	0.310		7	0.248	117	0.300		23	0.243	37	0.281		36	0.243	20	0.277		4	0.240	6	0.270		8	0.240	112	0.270		10	0.240	14	0.265		30	0.240	107	0.262		24	0.239	115	0.260		1	0.230	118	0.260		105	0.220	39	0.257		111	0.216	3	0.255		21	0.213	26	0.255		32	0.210	27	0.255		103	0.200	13	0.254		16	0.196	5	0.253		40	0.185	31	0.253		17	0.185	104	0.253		108	0.130	19	0.252		110	0.110
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26	0.135		30	0.110																																																																																																																																																																																																																																								
3	0.133		105	0.110																																																																																																																																																																																																																																								
116	0.133		120	0.108																																																																																																																																																																																																																																								
10	0.130		32	0.105																																																																																																																																																																																																																																								
22	0.130		111	0.105																																																																																																																																																																																																																																								
38	0.130		21	0.104																																																																																																																																																																																																																																								
110	0.130		1	0.100																																																																																																																																																																																																																																								
114	0.130		40	0.099																																																																																																																																																																																																																																								
115	0.130		103	0.090																																																																																																																																																																																																																																								
39	0.128		108	0.050																																																																																																																																																																																																																																								
5	0.127		17	0.046																																																																																																																																																																																																																																								
33	0.250																																																																																																																																																																																																																																											
34	1.165	UNUSED	38	0.250																																																																																																																																																																																																																																								
22	0.381		116	0.250																																																																																																																																																																																																																																								
11	0.374		119	0.250																																																																																																																																																																																																																																								
114	0.330		120	0.250																																																																																																																																																																																																																																								
15	0.310		7	0.248																																																																																																																																																																																																																																								
117	0.300		23	0.243																																																																																																																																																																																																																																								
37	0.281		36	0.243																																																																																																																																																																																																																																								
20	0.277		4	0.240																																																																																																																																																																																																																																								
6	0.270		8	0.240																																																																																																																																																																																																																																								
112	0.270		10	0.240																																																																																																																																																																																																																																								
14	0.265		30	0.240																																																																																																																																																																																																																																								
107	0.262		24	0.239																																																																																																																																																																																																																																								
115	0.260		1	0.230																																																																																																																																																																																																																																								
118	0.260		105	0.220																																																																																																																																																																																																																																								
39	0.257		111	0.216																																																																																																																																																																																																																																								
3	0.255		21	0.213																																																																																																																																																																																																																																								
26	0.255		32	0.210																																																																																																																																																																																																																																								
27	0.255		103	0.200																																																																																																																																																																																																																																								
13	0.254		16	0.196																																																																																																																																																																																																																																								
5	0.253		40	0.185																																																																																																																																																																																																																																								
31	0.253		17	0.185																																																																																																																																																																																																																																								
104	0.253		108	0.130																																																																																																																																																																																																																																								
19	0.252		110	0.110																																																																																																																																																																																																																																								
<p>POTASSIUM SAMPLE NO.: G3 THEORETICAL VALUE 0.102 UNIT: µg K/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 45 ARITHMETIC MEAN VALUE: 0.162 MEDIAN: 0.101 STANDARD DEVIATION: 0.202 REL. ST. DEVIATION (%): 124.593</p> <p>RUN 2: NUMBER OF LABORATORIES: 42 ARITHMETIC MEAN VALUE: 0.109 MEDIAN: 0.100 STANDARD DEVIATION: 0.035 REL. ST. DEVIATION (%): 31.964</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>104</td><td>0.930</td><td>UNUSED</td><td>24</td><td>0.100</td></tr> <tr><td>10</td><td>0.910</td><td>UNUSED</td><td>36</td><td>0.100</td></tr> <tr><td>34</td><td>0.852</td><td>UNUSED</td><td>38</td><td>0.100</td></tr> <tr><td>11</td><td>0.221</td><td></td><td>120</td><td>0.100</td></tr> <tr><td>112</td><td>0.200</td><td></td><td>107</td><td>0.098</td></tr> <tr><td>37</td><td>0.175</td><td></td><td>13</td><td>0.097</td></tr> <tr><td>15</td><td>0.170</td><td></td><td>21</td><td>0.097</td></tr> <tr><td>22</td><td>0.168</td><td></td><td>3</td><td>0.096</td></tr> <tr><td>114</td><td>0.140</td><td></td><td>5</td><td>0.096</td></tr> <tr><td>117</td><td>0.130</td><td></td><td>23</td><td>0.096</td></tr> <tr><td>118</td><td>0.130</td><td></td><td>40</td><td>0.091</td></tr> <tr><td>6</td><td>0.120</td><td></td><td>4</td><td>0.090</td></tr> <tr><td>110</td><td>0.120</td><td></td><td>8</td><td>0.090</td></tr> <tr><td>14</td><td>0.118</td><td></td><td>16</td><td>0.090</td></tr> <tr><td>20</td><td>0.118</td><td></td><td>30</td><td>0.090</td></tr> <tr><td>31</td><td>0.111</td><td></td><td>33</td><td>0.090</td></tr> <tr><td>115</td><td>0.110</td><td></td><td>111</td><td>0.083</td></tr> <tr><td>19</td><td>0.108</td><td></td><td>1</td><td>0.080</td></tr> <tr><td>27</td><td>0.105</td><td></td><td>32</td><td>0.080</td></tr> <tr><td>26</td><td>0.103</td><td></td><td>103</td><td>0.080</td></tr> <tr><td>7</td><td>0.102</td><td></td><td>105</td><td>0.080</td></tr> <tr><td>116</td><td>0.102</td><td></td><td>108</td><td>0.020</td></tr> <tr><td>39</td><td>0.101</td><td></td><td></td><td></td></tr> <tr><td>26</td><td>0.301</td><td></td><td></td><td></td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	104	0.930	UNUSED	24	0.100	10	0.910	UNUSED	36	0.100	34	0.852	UNUSED	38	0.100	11	0.221		120	0.100	112	0.200		107	0.098	37	0.175		13	0.097	15	0.170		21	0.097	22	0.168		3	0.096	114	0.140		5	0.096	117	0.130		23	0.096	118	0.130		40	0.091	6	0.120		4	0.090	110	0.120		8	0.090	14	0.118		16	0.090	20	0.118		30	0.090	31	0.111		33	0.090	115	0.110		111	0.083	19	0.108		1	0.080	27	0.105		32	0.080	26	0.103		103	0.080	7	0.102		105	0.080	116	0.102		108	0.020	39	0.101				26	0.301				<p>POTASSIUM SAMPLE NO.: G4 THEORETICAL VALUE 0.306 UNIT: µg K/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 47 ARITHMETIC MEAN VALUE: 0.314 MEDIAN: 0.301 STANDARD DEVIATION: 0.134 REL. ST. DEVIATION (%): 42.840</p> <p>RUN 2: NUMBER OF LABORATORIES: 46 ARITHMETIC MEAN VALUE: 0.295 MEDIAN: 0.301 STANDARD DEVIATION: 0.045 REL. ST. DEVIATION (%): 15.307</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>34</td><td>1.164</td><td>UNUSED</td><td>23</td><td>0.300</td></tr> <tr><td>11</td><td>0.412</td><td></td><td>38</td><td>0.300</td></tr> <tr><td>110</td><td>0.390</td><td></td><td>114</td><td>0.300</td></tr> <tr><td>37</td><td>0.367</td><td></td><td>13</td><td>0.296</td></tr> <tr><td>117</td><td>0.350</td><td></td><td>7</td><td>0.293</td></tr> <tr><td>112</td><td>0.330</td><td></td><td>36</td><td>0.291</td></tr> <tr><td>115</td><td>0.330</td><td></td><td>4</td><td>0.290</td></tr> <tr><td>118</td><td>0.330</td><td></td><td>33</td><td>0.290</td></tr> <tr><td>31</td><td>0.329</td><td></td><td>120</td><td>0.289</td></tr> <tr><td>3</td><td>0.323</td><td></td><td>8</td><td>0.280</td></tr> <tr><td>20</td><td>0.323</td><td></td><td>10</td><td>0.280</td></tr> <tr><td>15</td><td>0.320</td><td></td><td>24</td><td>0.279</td></tr> <tr><td>32</td><td>0.320</td><td></td><td>1</td><td>0.270</td></tr> <tr><td>107</td><td>0.311</td><td></td><td>105</td><td>0.270</td></tr> <tr><td>5</td><td>0.310</td><td></td><td>111</td><td>0.253</td></tr> <tr><td>6</td><td>0.310</td><td></td><td>16</td><td>0.250</td></tr> <tr><td>30</td><td>0.310</td><td></td><td>103</td><td>0.250</td></tr> <tr><td>27</td><td>0.309</td><td></td><td>17</td><td>0.243</td></tr> <tr><td>104</td><td>0.308</td><td></td><td>21</td><td>0.243</td></tr> <tr><td>14</td><td>0.307</td><td></td><td>119</td><td>0.230</td></tr> <tr><td>19</td><td>0.306</td><td></td><td>22</td><td>0.222</td></tr> <tr><td>39</td><td>0.304</td><td></td><td>40</td><td>0.208</td></tr> <tr><td>116</td><td>0.302</td><td></td><td>108</td><td>0.150</td></tr> </tbody> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	34	1.164	UNUSED	23	0.300	11	0.412		38	0.300	110	0.390		114	0.300	37	0.367		13	0.296	117	0.350		7	0.293	112	0.330		36	0.291	115	0.330		4	0.290	118	0.330		33	0.290	31	0.329		120	0.289	3	0.323		8	0.280	20	0.323		10	0.280	15	0.320		24	0.279	32	0.320		1	0.270	107	0.311		105	0.270	5	0.310		111	0.253	6	0.310		16	0.250	30	0.310		103	0.250	27	0.309		17	0.243	104	0.308		21	0.243	14	0.307		119	0.230	19	0.306		22	0.222	39	0.304		40	0.208	116	0.302		108	0.150
104	0.930	UNUSED	24	0.100																																																																																																																																																																																																																																								
10	0.910	UNUSED	36	0.100																																																																																																																																																																																																																																								
34	0.852	UNUSED	38	0.100																																																																																																																																																																																																																																								
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14	0.118		16	0.090																																																																																																																																																																																																																																								
20	0.118		30	0.090																																																																																																																																																																																																																																								
31	0.111		33	0.090																																																																																																																																																																																																																																								
115	0.110		111	0.083																																																																																																																																																																																																																																								
19	0.108		1	0.080																																																																																																																																																																																																																																								
27	0.105		32	0.080																																																																																																																																																																																																																																								
26	0.103		103	0.080																																																																																																																																																																																																																																								
7	0.102		105	0.080																																																																																																																																																																																																																																								
116	0.102		108	0.020																																																																																																																																																																																																																																								
39	0.101																																																																																																																																																																																																																																											
26	0.301																																																																																																																																																																																																																																											
34	1.164	UNUSED	23	0.300																																																																																																																																																																																																																																								
11	0.412		38	0.300																																																																																																																																																																																																																																								
110	0.390		114	0.300																																																																																																																																																																																																																																								
37	0.367		13	0.296																																																																																																																																																																																																																																								
117	0.350		7	0.293																																																																																																																																																																																																																																								
112	0.330		36	0.291																																																																																																																																																																																																																																								
115	0.330		4	0.290																																																																																																																																																																																																																																								
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31	0.329		120	0.289																																																																																																																																																																																																																																								
3	0.323		8	0.280																																																																																																																																																																																																																																								
20	0.323		10	0.280																																																																																																																																																																																																																																								
15	0.320		24	0.279																																																																																																																																																																																																																																								
32	0.320		1	0.270																																																																																																																																																																																																																																								
107	0.311		105	0.270																																																																																																																																																																																																																																								
5	0.310		111	0.253																																																																																																																																																																																																																																								
6	0.310		16	0.250																																																																																																																																																																																																																																								
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14	0.307		119	0.230																																																																																																																																																																																																																																								
19	0.306		22	0.222																																																																																																																																																																																																																																								
39	0.304		40	0.208																																																																																																																																																																																																																																								
116	0.302		108	0.150																																																																																																																																																																																																																																								

Table 13: Analytical results for conductivity in precipitation samples.

<p>CONDUCTIVITY SAMPLE NO.: G1 THEORETICAL VALUE 18.600 UNIT: $\mu\text{S}/\text{cm}$</p> <p>RUN 1: NUMBER OF LABORATORIES: 50 ARITHMETIC MEAN VALUE: 18.031 MEDIAN: 18.000 STANDARD DEVIATION: 2.482 REL. ST. DEVIATION (%): 13.767</p> <p>RUN 2: NUMBER OF LABORATORIES: 49 ARITHMETIC MEAN VALUE: 17.746 MEDIAN: 18.000 STANDARD DEVIATION: 1.463 REL. ST. DEVIATION (%): 8.246</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tr><td>12</td><td>32.000</td><td>UNUSED</td><td>24</td><td>18.000</td></tr> <tr><td>39</td><td>20.830</td><td></td><td>104</td><td>18.000</td></tr> <tr><td>23</td><td>20.000</td><td></td><td>106</td><td>18.000</td></tr> <tr><td>3</td><td>19.670</td><td></td><td>108</td><td>18.000</td></tr> <tr><td>6</td><td>19.300</td><td></td><td>117</td><td>18.000</td></tr> <tr><td>20</td><td>19.300</td><td></td><td>120</td><td>18.000</td></tr> <tr><td>8</td><td>19.200</td><td></td><td>32</td><td>17.900</td></tr> <tr><td>27</td><td>19.100</td><td></td><td>114</td><td>17.700</td></tr> <tr><td>31</td><td>19.100</td><td></td><td>36</td><td>17.500</td></tr> <tr><td>16</td><td>19.000</td><td></td><td>13</td><td>17.300</td></tr> <tr><td>5</td><td>18.700</td><td></td><td>112</td><td>17.300</td></tr> <tr><td>15</td><td>18.700</td><td></td><td>4</td><td>17.200</td></tr> <tr><td>10</td><td>18.620</td><td></td><td>34</td><td>17.110</td></tr> <tr><td>18</td><td>18.600</td><td></td><td>118</td><td>17.000</td></tr> <tr><td>19</td><td>18.600</td><td></td><td>11</td><td>16.700</td></tr> <tr><td>21</td><td>18.550</td><td></td><td>33</td><td>16.500</td></tr> <tr><td>30</td><td>18.540</td><td></td><td>7</td><td>16.460</td></tr> <tr><td>38</td><td>18.500</td><td></td><td>121</td><td>16.400</td></tr> <tr><td>105</td><td>18.500</td><td></td><td>40</td><td>16.000</td></tr> <tr><td>37</td><td>18.200</td><td></td><td>103</td><td>15.750</td></tr> <tr><td>111</td><td>18.200</td><td></td><td>107</td><td>15.500</td></tr> <tr><td>14</td><td>18.100</td><td></td><td>110</td><td>15.000</td></tr> <tr><td>116</td><td>18.100</td><td></td><td>119</td><td>14.700</td></tr> <tr><td>1</td><td>18.000</td><td></td><td>22</td><td>14.600</td></tr> <tr><td>17</td><td>18.000</td><td></td><td>115</td><td>13.500</td></tr> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	12	32.000	UNUSED	24	18.000	39	20.830		104	18.000	23	20.000		106	18.000	3	19.670		108	18.000	6	19.300		117	18.000	20	19.300		120	18.000	8	19.200		32	17.900	27	19.100		114	17.700	31	19.100		36	17.500	16	19.000		13	17.300	5	18.700		112	17.300	15	18.700		4	17.200	10	18.620		34	17.110	18	18.600		118	17.000	19	18.600		11	16.700	21	18.550		33	16.500	30	18.540		7	16.460	38	18.500		121	16.400	105	18.500		40	16.000	37	18.200		103	15.750	111	18.200		107	15.500	14	18.100		110	15.000	116	18.100		119	14.700	1	18.000		22	14.600	17	18.000		115	13.500	<p>CONDUCTIVITY SAMPLE NO.: G2 THEORETICAL VALUE 53.800 UNIT: $\mu\text{S}/\text{cm}$</p> <p>RUN 1: NUMBER OF LABORATORIES: 50 ARITHMETIC MEAN VALUE: 51.714 MEDIAN: 52.000 STANDARD DEVIATION: 3.591 REL. ST. DEVIATION (%): 6.944</p> <p>RUN 2: NUMBER OF LABORATORIES: 46 ARITHMETIC MEAN VALUE: 51.598 MEDIAN: 52.000 STANDARD DEVIATION: 2.102 REL. ST. DEVIATION (%): 4.073</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tr><td>12</td><td>65.400</td><td>UNUSED</td><td>24</td><td>52.000</td></tr> <tr><td>18</td><td>61.100</td><td>UNUSED</td><td>15</td><td>51.800</td></tr> <tr><td>115</td><td>56.500</td><td></td><td>108</td><td>51.600</td></tr> <tr><td>23</td><td>55.000</td><td></td><td>1</td><td>51.400</td></tr> <tr><td>3</td><td>54.400</td><td></td><td>4</td><td>51.400</td></tr> <tr><td>16</td><td>54.000</td><td></td><td>13</td><td>51.300</td></tr> <tr><td>104</td><td>54.000</td><td></td><td>105</td><td>51.300</td></tr> <tr><td>31</td><td>53.800</td><td></td><td>111</td><td>51.300</td></tr> <tr><td>38</td><td>53.600</td><td></td><td>106</td><td>51.000</td></tr> <tr><td>114</td><td>53.300</td><td></td><td>121</td><td>51.000</td></tr> <tr><td>6</td><td>53.200</td><td></td><td>34</td><td>50.900</td></tr> <tr><td>19</td><td>53.200</td><td></td><td>112</td><td>50.900</td></tr> <tr><td>8</td><td>53.000</td><td></td><td>117</td><td>50.000</td></tr> <tr><td>30</td><td>52.980</td><td></td><td>120</td><td>50.000</td></tr> <tr><td>27</td><td>52.900</td><td></td><td>36</td><td>49.800</td></tr> <tr><td>21</td><td>52.830</td><td></td><td>116</td><td>49.000</td></tr> <tr><td>39</td><td>52.670</td><td></td><td>118</td><td>49.000</td></tr> <tr><td>14</td><td>52.500</td><td></td><td>11</td><td>48.600</td></tr> <tr><td>5</td><td>52.400</td><td></td><td>40</td><td>48.000</td></tr> <tr><td>37</td><td>52.300</td><td></td><td>110</td><td>48.000</td></tr> <tr><td>107</td><td>52.300</td><td></td><td>103</td><td>47.950</td></tr> <tr><td>32</td><td>52.210</td><td></td><td>7</td><td>47.480</td></tr> <tr><td>20</td><td>52.200</td><td></td><td>33</td><td>46.500</td></tr> <tr><td>10</td><td>52.000</td><td></td><td>119</td><td>42.900</td></tr> <tr><td>17</td><td>52.000</td><td></td><td>22</td><td>42.800</td></tr> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	12	65.400	UNUSED	24	52.000	18	61.100	UNUSED	15	51.800	115	56.500		108	51.600	23	55.000		1	51.400	3	54.400		4	51.400	16	54.000		13	51.300	104	54.000		105	51.300	31	53.800		111	51.300	38	53.600		106	51.000	114	53.300		121	51.000	6	53.200		34	50.900	19	53.200		112	50.900	8	53.000		117	50.000	30	52.980		120	50.000	27	52.900		36	49.800	21	52.830		116	49.000	39	52.670		118	49.000	14	52.500		11	48.600	5	52.400		40	48.000	37	52.300		110	48.000	107	52.300		103	47.950	32	52.210		7	47.480	20	52.200		33	46.500	10	52.000		119	42.900	17	52.000		22	42.800
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<p>CONDUCTIVITY SAMPLE NO.: G3 THEORETICAL VALUE 27.900 UNIT: $\mu\text{S}/\text{cm}$</p> <p>RUN 1: NUMBER OF LABORATORIES: 50 ARITHMETIC MEAN VALUE: 27.512 MEDIAN: 27.650 STANDARD DEVIATION: 2.186 REL. ST. DEVIATION (%): 7.946</p> <p>RUN 2: NUMBER OF LABORATORIES: 47 ARITHMETIC MEAN VALUE: 27.519 MEDIAN: 27.700 STANDARD DEVIATION: 1.375 REL. ST. DEVIATION (%): 4.997</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tr><td>12</td><td>37.300</td><td>UNUSED</td><td>111</td><td>27.600</td></tr> <tr><td>18</td><td>30.310</td><td></td><td>21</td><td>27.570</td></tr> <tr><td>23</td><td>30.000</td><td></td><td>15</td><td>27.500</td></tr> <tr><td>39</td><td>29.730</td><td></td><td>37</td><td>27.350</td></tr> <tr><td>36</td><td>29.700</td><td></td><td>1</td><td>27.300</td></tr> <tr><td>115</td><td>29.500</td><td></td><td>105</td><td>27.300</td></tr> <tr><td>3</td><td>29.490</td><td></td><td>17</td><td>27.250</td></tr> <tr><td>31</td><td>28.700</td><td></td><td>4</td><td>27.200</td></tr> <tr><td>6</td><td>28.500</td><td></td><td>10</td><td>27.170</td></tr> <tr><td>20</td><td>28.500</td><td></td><td>33</td><td>27.000</td></tr> <tr><td>34</td><td>28.400</td><td></td><td>120</td><td>27.000</td></tr> <tr><td>8</td><td>28.300</td><td></td><td>32</td><td>26.720</td></tr> <tr><td>114</td><td>28.200</td><td></td><td>112</td><td>26.600</td></tr> <tr><td>19</td><td>28.100</td><td></td><td>108</td><td>26.500</td></tr> <tr><td>27</td><td>28.100</td><td></td><td>103</td><td>26.050</td></tr> <tr><td>14</td><td>28.000</td><td></td><td>24</td><td>26.000</td></tr> <tr><td>16</td><td>28.000</td><td></td><td>118</td><td>26.000</td></tr> <tr><td>38</td><td>28.000</td><td></td><td>7</td><td>25.850</td></tr> <tr><td>104</td><td>28.000</td><td></td><td>11</td><td>25.800</td></tr> <tr><td>106</td><td>28.000</td><td></td><td>13</td><td>25.700</td></tr> <tr><td>117</td><td>28.000</td><td></td><td>40</td><td>25.000</td></tr> <tr><td>5</td><td>27.800</td><td></td><td>110</td><td>25.000</td></tr> <tr><td>30</td><td>27.710</td><td></td><td>107</td><td>23.500</td></tr> <tr><td>116</td><td>27.700</td><td></td><td>119</td><td>22.700</td></tr> <tr><td>121</td><td>27.700</td><td></td><td>22</td><td>22.200</td></tr> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	12	37.300	UNUSED	111	27.600	18	30.310		21	27.570	23	30.000		15	27.500	39	29.730		37	27.350	36	29.700		1	27.300	115	29.500		105	27.300	3	29.490		17	27.250	31	28.700		4	27.200	6	28.500		10	27.170	20	28.500		33	27.000	34	28.400		120	27.000	8	28.300		32	26.720	114	28.200		112	26.600	19	28.100		108	26.500	27	28.100		103	26.050	14	28.000		24	26.000	16	28.000		118	26.000	38	28.000		7	25.850	104	28.000		11	25.800	106	28.000		13	25.700	117	28.000		40	25.000	5	27.800		110	25.000	30	27.710		107	23.500	116	27.700		119	22.700	121	27.700		22	22.200	<p>CONDUCTIVITY SAMPLE NO.: G4 THEORETICAL VALUE 45.800 UNIT: $\mu\text{S}/\text{cm}$</p> <p>RUN 1: NUMBER OF LABORATORIES: 50 ARITHMETIC MEAN VALUE: 44.195 MEDIAN: 44.150 STANDARD DEVIATION: 2.960 REL. ST. DEVIATION (%): 6.698</p> <p>RUN 2: NUMBER OF LABORATORIES: 47 ARITHMETIC MEAN VALUE: 44.229 MEDIAN: 44.300 STANDARD DEVIATION: 1.898 REL. ST. DEVIATION (%): 4.292</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tr><td>12</td><td>56.900</td><td>UNUSED</td><td>4</td><td>44.000</td></tr> <tr><td>18</td><td>48.900</td><td></td><td>24</td><td>44.000</td></tr> <tr><td>115</td><td>48.900</td><td></td><td>106</td><td>44.000</td></tr> <tr><td>23</td><td>48.000</td><td></td><td>108</td><td>44.000</td></tr> <tr><td>16</td><td>46.000</td><td></td><td>111</td><td>44.000</td></tr> <tr><td>38</td><td>46.000</td><td></td><td>117</td><td>44.000</td></tr> <tr><td>3</td><td>45.930</td><td></td><td>120</td><td>44.000</td></tr> <tr><td>114</td><td>45.900</td><td></td><td>112</td><td>43.800</td></tr> <tr><td>27</td><td>45.600</td><td></td><td>17</td><td>43.750</td></tr> <tr><td>6</td><td>45.400</td><td></td><td>10</td><td>43.600</td></tr> <tr><td>19</td><td>45.400</td><td></td><td>13</td><td>43.400</td></tr> <tr><td>30</td><td>45.310</td><td></td><td>34</td><td>43.300</td></tr> <tr><td>21</td><td>45.300</td><td></td><td>105</td><td>43.200</td></tr> <tr><td>20</td><td>45.200</td><td></td><td>116</td><td>43.100</td></tr> <tr><td>37</td><td>45.200</td><td></td><td>107</td><td>43.000</td></tr> <tr><td>5</td><td>45.100</td><td></td><td>36</td><td>42.200</td></tr> <tr><td>14</td><td>45.000</td><td></td><td>118</td><td>42.000</td></tr> <tr><td>104</td><td>45.000</td><td></td><td>103</td><td>41.260</td></tr> <tr><td>31</td><td>44.900</td><td></td><td>11</td><td>41.200</td></tr> <tr><td>32</td><td>44.820</td><td></td><td>40</td><td>41.000</td></tr> <tr><td>39</td><td>44.680</td><td></td><td>110</td><td>41.000</td></tr> <tr><td>8</td><td>44.500</td><td></td><td>7</td><td>40.810</td></tr> <tr><td>15</td><td>44.400</td><td></td><td>33</td><td>40.000</td></tr> <tr><td>121</td><td>44.400</td><td></td><td>119</td><td>37.100</td></tr> <tr><td>1</td><td>44.300</td><td></td><td>22</td><td>37.000</td></tr> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	12	56.900	UNUSED	4	44.000	18	48.900		24	44.000	115	48.900		106	44.000	23	48.000		108	44.000	16	46.000		111	44.000	38	46.000		117	44.000	3	45.930		120	44.000	114	45.900		112	43.800	27	45.600		17	43.750	6	45.400		10	43.600	19	45.400		13	43.400	30	45.310		34	43.300	21	45.300		105	43.200	20	45.200		116	43.100	37	45.200		107	43.000	5	45.100		36	42.200	14	45.000		118	42.000	104	45.000		103	41.260	31	44.900		11	41.200	32	44.820		40	41.000	39	44.680		110	41.000	8	44.500		7	40.810	15	44.400		33	40.000	121	44.400		119	37.100	1	44.300		22	37.000
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23	30.000		15	27.500																																																																																																																																																																																																																																																							
39	29.730		37	27.350																																																																																																																																																																																																																																																							
36	29.700		1	27.300																																																																																																																																																																																																																																																							
115	29.500		105	27.300																																																																																																																																																																																																																																																							
3	29.490		17	27.250																																																																																																																																																																																																																																																							
31	28.700		4	27.200																																																																																																																																																																																																																																																							
6	28.500		10	27.170																																																																																																																																																																																																																																																							
20	28.500		33	27.000																																																																																																																																																																																																																																																							
34	28.400		120	27.000																																																																																																																																																																																																																																																							
8	28.300		32	26.720																																																																																																																																																																																																																																																							
114	28.200		112	26.600																																																																																																																																																																																																																																																							
19	28.100		108	26.500																																																																																																																																																																																																																																																							
27	28.100		103	26.050																																																																																																																																																																																																																																																							
14	28.000		24	26.000																																																																																																																																																																																																																																																							
16	28.000		118	26.000																																																																																																																																																																																																																																																							
38	28.000		7	25.850																																																																																																																																																																																																																																																							
104	28.000		11	25.800																																																																																																																																																																																																																																																							
106	28.000		13	25.700																																																																																																																																																																																																																																																							
117	28.000		40	25.000																																																																																																																																																																																																																																																							
5	27.800		110	25.000																																																																																																																																																																																																																																																							
30	27.710		107	23.500																																																																																																																																																																																																																																																							
116	27.700		119	22.700																																																																																																																																																																																																																																																							
121	27.700		22	22.200																																																																																																																																																																																																																																																							
12	56.900	UNUSED	4	44.000																																																																																																																																																																																																																																																							
18	48.900		24	44.000																																																																																																																																																																																																																																																							
115	48.900		106	44.000																																																																																																																																																																																																																																																							
23	48.000		108	44.000																																																																																																																																																																																																																																																							
16	46.000		111	44.000																																																																																																																																																																																																																																																							
38	46.000		117	44.000																																																																																																																																																																																																																																																							
3	45.930		120	44.000																																																																																																																																																																																																																																																							
114	45.900		112	43.800																																																																																																																																																																																																																																																							
27	45.600		17	43.750																																																																																																																																																																																																																																																							
6	45.400		10	43.600																																																																																																																																																																																																																																																							
19	45.400		13	43.400																																																																																																																																																																																																																																																							
30	45.310		34	43.300																																																																																																																																																																																																																																																							
21	45.300		105	43.200																																																																																																																																																																																																																																																							
20	45.200		116	43.100																																																																																																																																																																																																																																																							
37	45.200		107	43.000																																																																																																																																																																																																																																																							
5	45.100		36	42.200																																																																																																																																																																																																																																																							
14	45.000		118	42.000																																																																																																																																																																																																																																																							
104	45.000		103	41.260																																																																																																																																																																																																																																																							
31	44.900		11	41.200																																																																																																																																																																																																																																																							
32	44.820		40	41.000																																																																																																																																																																																																																																																							
39	44.680		110	41.000																																																																																																																																																																																																																																																							
8	44.500		7	40.810																																																																																																																																																																																																																																																							
15	44.400		33	40.000																																																																																																																																																																																																																																																							
121	44.400		119	37.100																																																																																																																																																																																																																																																							
1	44.300		22	37.000																																																																																																																																																																																																																																																							

Table 14: Ratio of the measured to the calculated conductivity in synthetic precipitation samples (G1-G4).

Lab. No.	Measured value / Calculated value				Remark
	G1	G2	G3	G4	
1	1.14	1.11	1.17	1.07	
3	1.07	1.10	1.08	1.10	
4	1.03	1.05	1.02	1.05	
5	1.02	1.01	1.01	1.01	
6	0.97	1.04	1.00	0.98	
7	0.84	0.91	0.88	0.93	
8	1.09	1.12	1.07	1.06	
10	1.13	1.09	1.03	1.09	
11	0.83	1.24	0.93	0.96	
12					Missing Na, Mg, Ca and K
13	0.99	0.96	1.05	1.04	
14	1.02	0.79	1.03	1.00	
15	1.07	0.94	0.98	0.96	
16	0.98	0.90	0.96	0.92	
17	0.72	0.78	*	0.91	* Value < LOD
18					Missing Mg, Na, Ca and K
19	1.19	1.16	1.09	1.17	
20	1.03	1.00	1.06	1.01	
21	1.01	1.00	0.98	1.00	
22	0.88	0.86	0.84	0.89	
23	0.66	0.78	0.95	0.85	
24	0.92	0.92	0.88	0.89	
26					Missing conductivity
27	1.06	1.05	1.03	1.06	
30	0.90	0.92	0.91	0.86	
31	1.05	1.08	1.01	1.05	
32	1.00	1.04	1.00	1.08	
33	0.98	0.86	1.00	0.88	
34	0.93	0.95	0.98	0.95	
36	0.97	0.98	1.02	0.97	
37	0.99	1.04	1.44	1.06	
38	0.88	0.87	0.87	0.87	
39	0.78	0.70	0.84	0.66	
40	* □	□	□	*□	* Value < LOD □ SO ₂ are missing
103	0.97	1.05	1.12	1.04	
104	0.96	1.06	0.95	1.03	
105	0.56	0.53	0.64	0.51	
106					Only NH ₄ ⁺ is reported
107	0.63	0.68	0.60	0.60	
108					Ca ²⁺ values are missing
110	0.98	1.09	0.96	1.08	
111	1.09	1.00	1.06	1.04	
112	1.02	1.10	1.04	1.04	
113					Missing conductivity
114	1.06	1.03	1.04	1.07	
115	0.46	1.96	1.19	2.09	
116	1.00	0.98	1.08	1.02	
117	1.31	1.04	1.07	1.07	
118	0.98	1.00	0.98	0.98	
119	*	0.88	*	*	* Value < LOD
120	1.13	1.01	1.04	1.80	
121					Missing Mg ²⁺ , Na ⁺ , Ca ²⁺ and K ⁺
122					Missing conductivity

Table 15: 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	
1	1.21	1.12	1.13	1.11	
3	1.00	1.06	1.01	1.08	
4	1.08	1.06	1.03	1.06	
5	1.02	1.02	0.99	1.03	
6	1.03	1.01	1.00	1.02	
7	1.25	1.27	1.20	1.30	
8	1.03	1.07	0.99	1.07	
10	1.88	2.13	1.26	2.79	
11	0.99	1.20	0.96	1.04	
12	*	*	*	*	*Missing Mg, Na, Ca and K
13	1.04	1.01	1.10	1.16	
14	1.01	0.84	1.02	1.02	
15	0.99	0.92	0.98	0.93	
16	1.03	0.93	1.02	0.96	
17	0.87	0.99	*	0.99	*Value<LOD
18	*	*	*	*	*Missing Mg, Na, Ca and K
19	1.25	1.08	1.04	1.15	
20	1.00	0.98	0.98	0.97	
21	0.97	1.03	0.96	1.04	
22	1.76	0.92	0.92	0.96	
23	0.77	0.81	0.95	0.88	
24	1.11	1.02	0.99	1.05	
26	1.02	1.02	0.99	1.03	
27	1.04	1.07	1.04	1.07	
30	0.94	0.96	0.93	0.92	
31	1.00	1.06	1.01	1.07	
32	1.10	1.07	1.01	1.14	
33	0.98	0.78	0.94	0.93	
34	0.78	0.89	0.83	0.86	
36	1.01	1.05	0.94	1.06	
37	0.96	1.01	0.95	1.01	
38	0.89	0.92	0.92	0.89	
39	0.94	0.91	0.99	1.02	
40	*	0.33	0.44	*	* Value<LOD, SO4 values are missing
103	2.71	2.51	1.96	3.97	
104	0.95	1.02	0.82	1.04	
105	0.94	0.67	0.94	0.61	
106					* Only NH4 is reported
107	0.47	0.76	0.82	0.69	
108	*	*	*	*	* Ca values are missing
110	1.18	1.17	1.02	1.14	
111	1.11	1.06	1.09	1.10	
112	1.02	1.12	0.97	1.06	
113	*	*	*	*	* Missing SO4, Cl and K
114	1.05	1.05	0.97	1.04	
115	0.70	1.61	1.05	1.82	
116	1.04	1.07	1.16	1.00	
117	1.28	1.06	1.06	1.04	
118	0.95	1.05	1.02	1.04	
119	*	1.03	*	*	* Values < LOD
120	1.16	0.99	1.02	1.68	
121	*	*	*	*	Missing Mg, Na, Ca and K
122					Reports only NH4 and SO2

Table 16: The ratio of the median values to the theoretical values for all parameters and samples.

Parameter	Sample No.	Median/Expected
SO4-S	G1	1.00
	G2	1.00
	G3	1.00
	G4	1.00
NO3-N	G1	1.00
	G2	0.99
	G3	1.00
	G4	1.00
NH4-N	G1	0.99
	G2	1.00
	G3	1.00
	G4	1.00
pH (Calc. from H ⁺)	G1	0.92
	G2	0.90
	G3	0.94
	G4	0.89
H	G1	0.94
	G2	0.91
	G3	0.98
	G4	0.91
Mg	G1	0.95
	G2	0.99
	G3	0.98
	G4	0.99
Na	G1	0.96
	G2	0.99
	G3	0.99
	G4	0.98
Cl	G1	0.99
	G2	0.97
	G3	0.97
	G4	0.94
Ca	G1	0.98
	G2	1.02
	G3	0.99
	G4	1.01
K	G1	1.00
	G2	0.98
	G3	0.99
	G4	0.98
Cond	G1	0.97
	G2	0.97
	G3	0.99
	G4	0.96

Table 17: Analytical methods used for the determination of chemical constituents in precipitation samples.

Constituents	Methods	Laboratory
SO ₄	1. Thorin 2. Ion chromatography 3. Capillary Ion Analysis ICP-AES FIA Photometry	18,24,32 1, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 19, 20, 21, 22, 23, 26, 27, 30, 31, 33, 34,36,37,38,103,104,105,110,111,114,115, 116,118,119 39 108,112,117,120 121 122
NO ₃	1 Griess after Cd-red. 2 Ion chromatography 3 UV-method 4 Capillary Ion Analysis FIA / photometry	18, 24, 32,112 1, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 19, 20, 21, 22, 23, 26, 27, 30, 31, 33,34,36,37,38, 103,105,110,114,115,116,118,119 40, 120 39 104,111,113,117
NH ₄	1 Indophenol 2 Berthelot reaction, salicylate 3 Ion chromatography 4 Flow injection analysis (FIA) 5 Chloramin T 6 Nessler method Kjeldal Photometry	3, 4, 10, 11, 17, 19, 24, 27, 32, 33, 34, 38, 39, 40, 112,114 14, 26,118 1, 5, 6, 7, 12, 13, 15, 21, 22, 23, 30, 31, 36,114,115,119 8, 20, 37,106,111,113 16 18,105,122 103 104,110,116,117,120
H ⁺	1 Acidimetric titration 2 Alkali titration to spec. pH	14 6, 10
Mg	1 Atomic absorption (AAS) 2 Ion chromatography 3 ICP-AES	3, 4, 8, 10, 11, 16, 17, 18, 19, 20, 22, 24, 26, 27, 33, 34, 36, 38, 39, 40, 103,105,116 1, 5, 6, 7, 12, 13, 15, 21, 23, 30, 31, 37,114 14,104,108,110,111,112,113,115,117,118, 119,120,121
Na	1 AES 2 AAS 3 ICP-AES 4 Ion chromatography	10, 19, 32, 33, 36, 38, 39,116 3, 4, 8, 11, 16, 17, 18, 20, 24, 26, 27, 34, 40 103,105,108,110,114 14,104,111,112,113,115,117,118,120,121 1, 5, 6, 7, 9, 12, 13, 15, 21, 22, 23, 30, 31, 37,119
Cl	1 Mercury thiocyanate-iron 2 Ion chromatography 3 Capillary Ion Analysis Potensimetric method Photometric method	18, 24, 32,40 1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19, 20, 21, 22, 23, 26, 27, 30, 31, 33, 34, 36, 37, 38, 103,104,105,110,111,114,115,116,118, 119 39 112,117 120
Ca	1 AAS 2 ICP-AES 3 Ion chromatography 4 AES	3, 4, 8, 11, 16, 17, 18, 19, 20, 22, 24, 26, 27, 34, 36, 38, 40,103,105,116 14,104,108,110,111,112,113,115,117,118, 120,121 119 10, 32, 33, 39
K	1 AAS 2 Ion chromatography 3 AES 4 ICP-AES	3, 4, 8, 11, 16, 17, 18, 19, 20, 24, 26, 27, 34, 103,104,105,108,117 1, 5, 6, 7, 9, 12, 13, 15, 21, 22, 23, 30, 31, 37,114,119 10, 32, 33, 36, 38, 39,116 14,110,111,112,115,118,120,121

Appendix 2

Figures

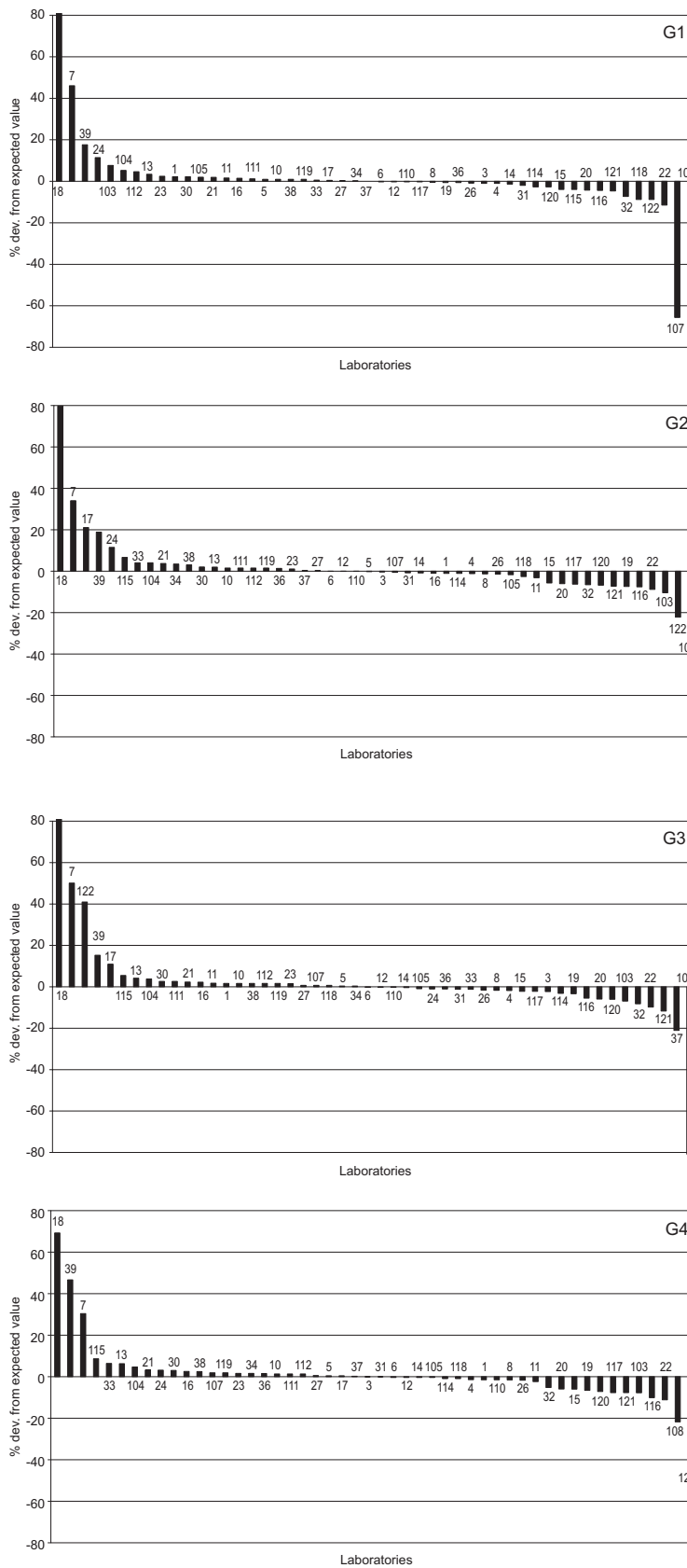


Figure 1: Percent deviation from theoretical value for sulphate.

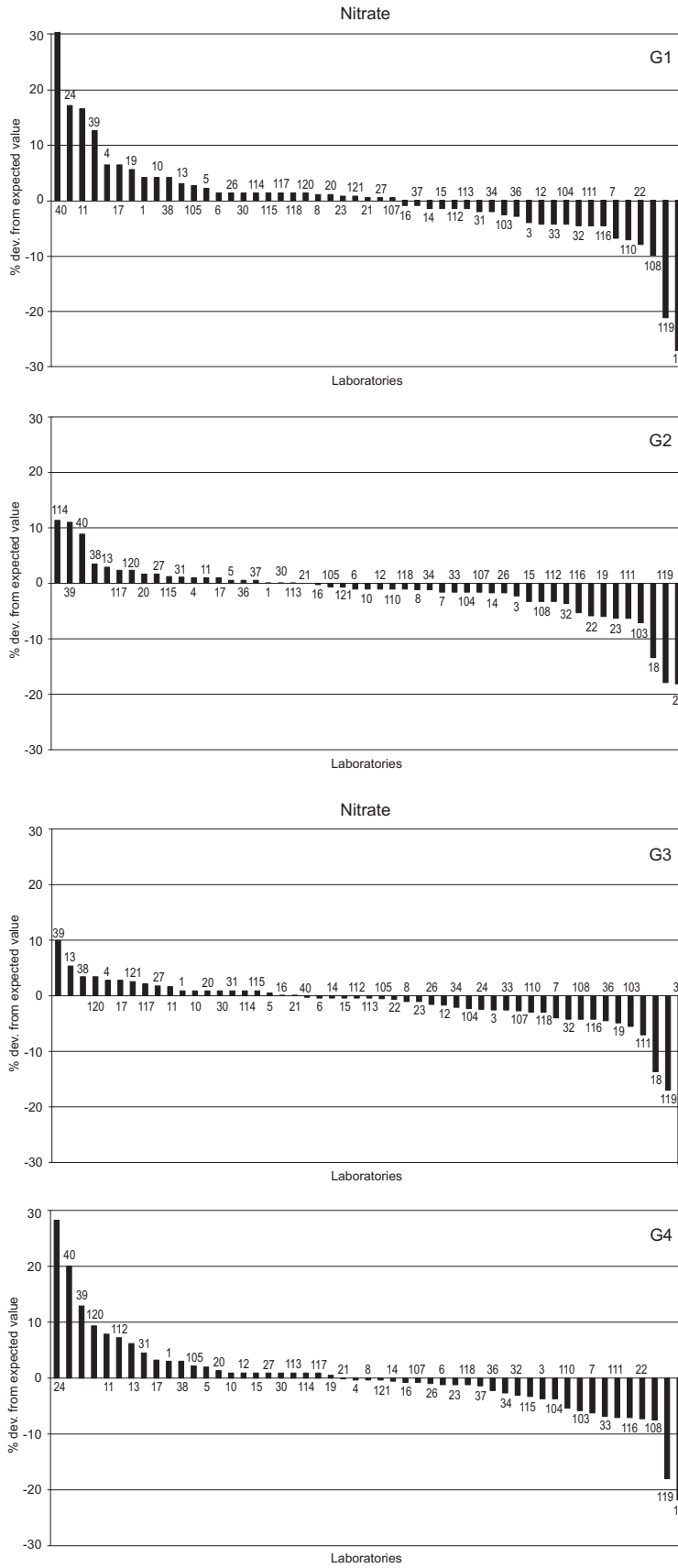


Figure 2: Percent deviation from theoretical value for nitrate.

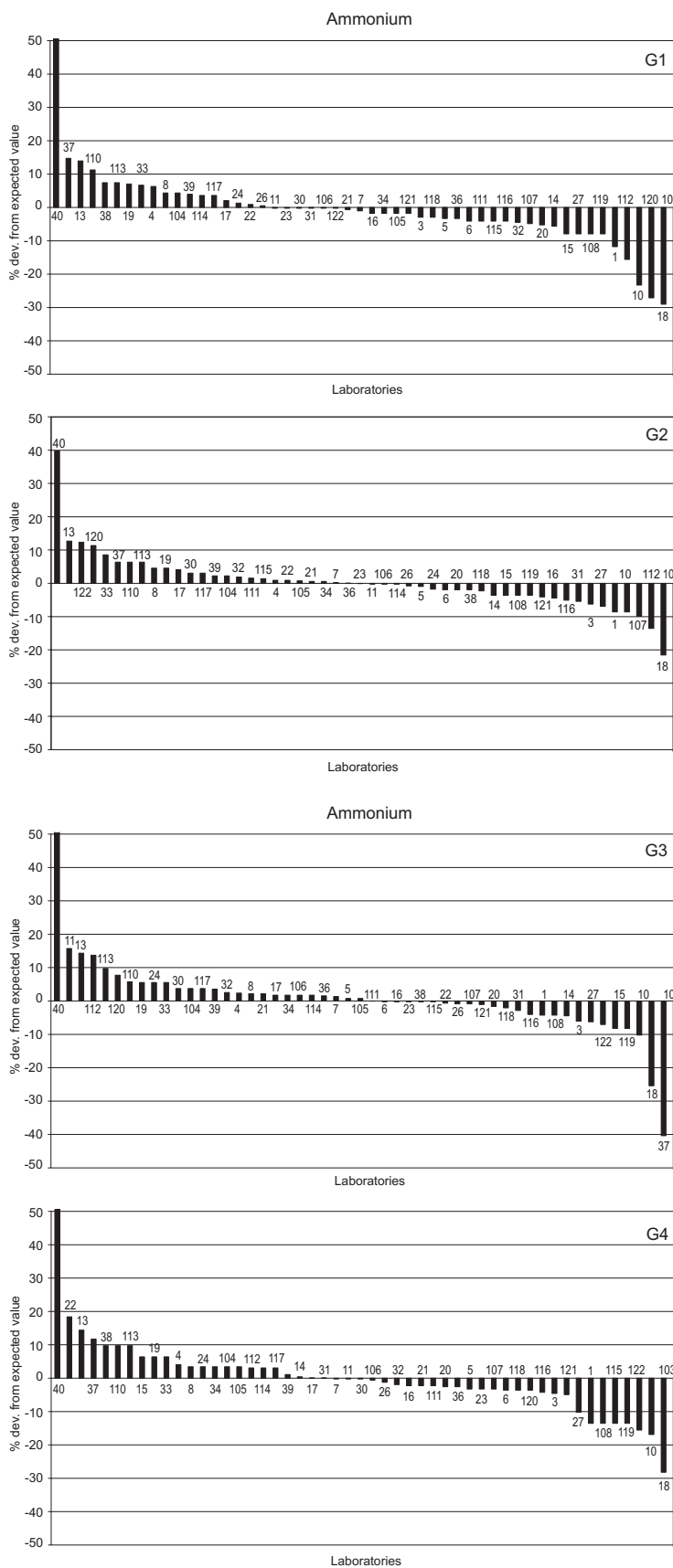


Figure 3: Percent deviation from theoretical value for ammonium.

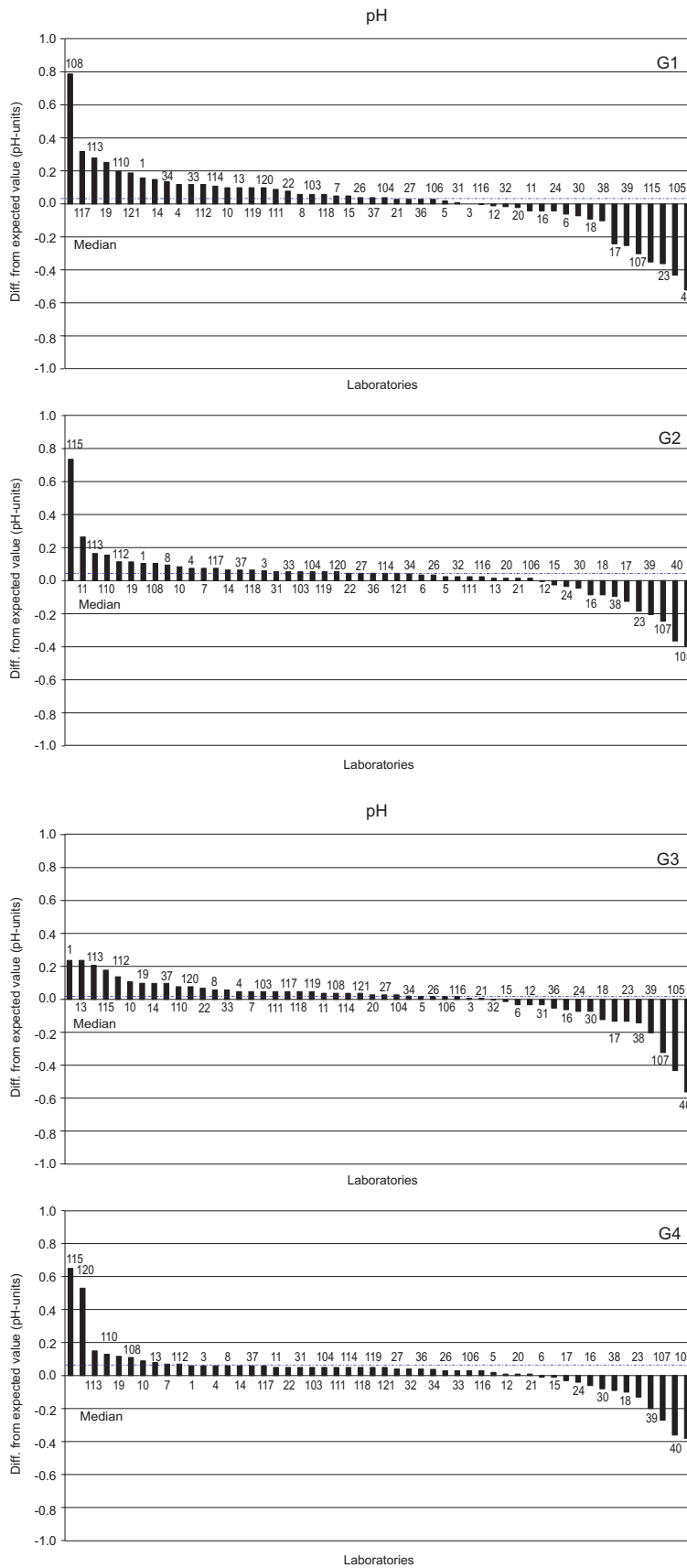


Figure 4: Percent deviation from theoretical value for pH.

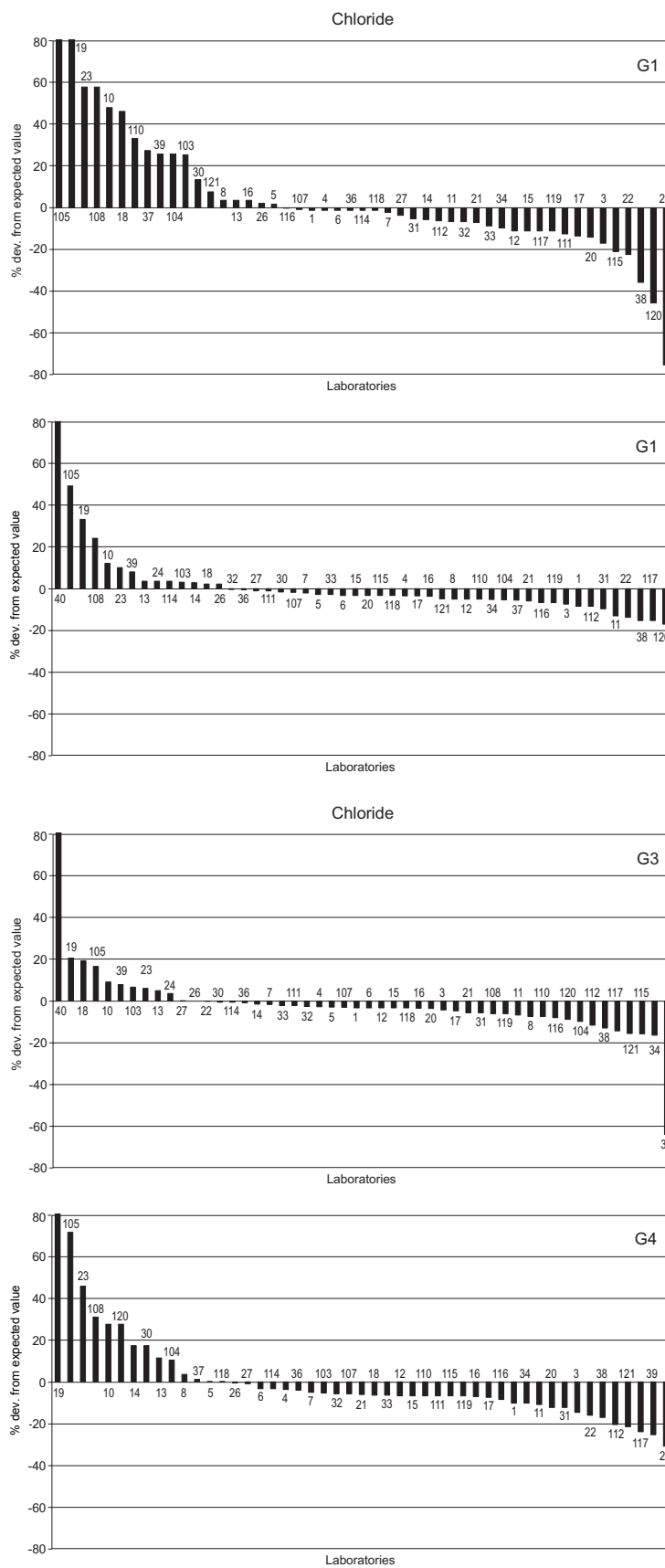


Figure 5: Percent deviation from theoretical value for chloride.

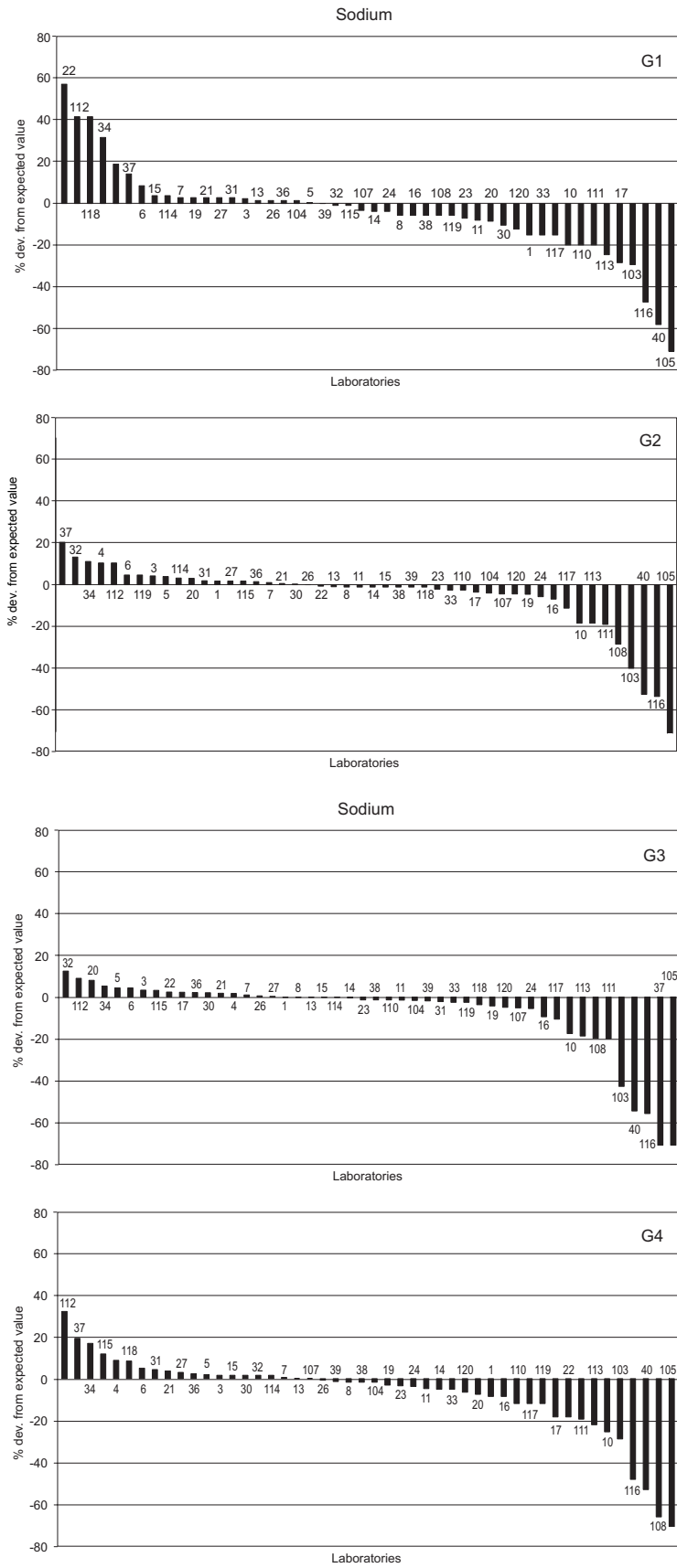


Figure 6: Percent deviation from theoretical value for sodium.

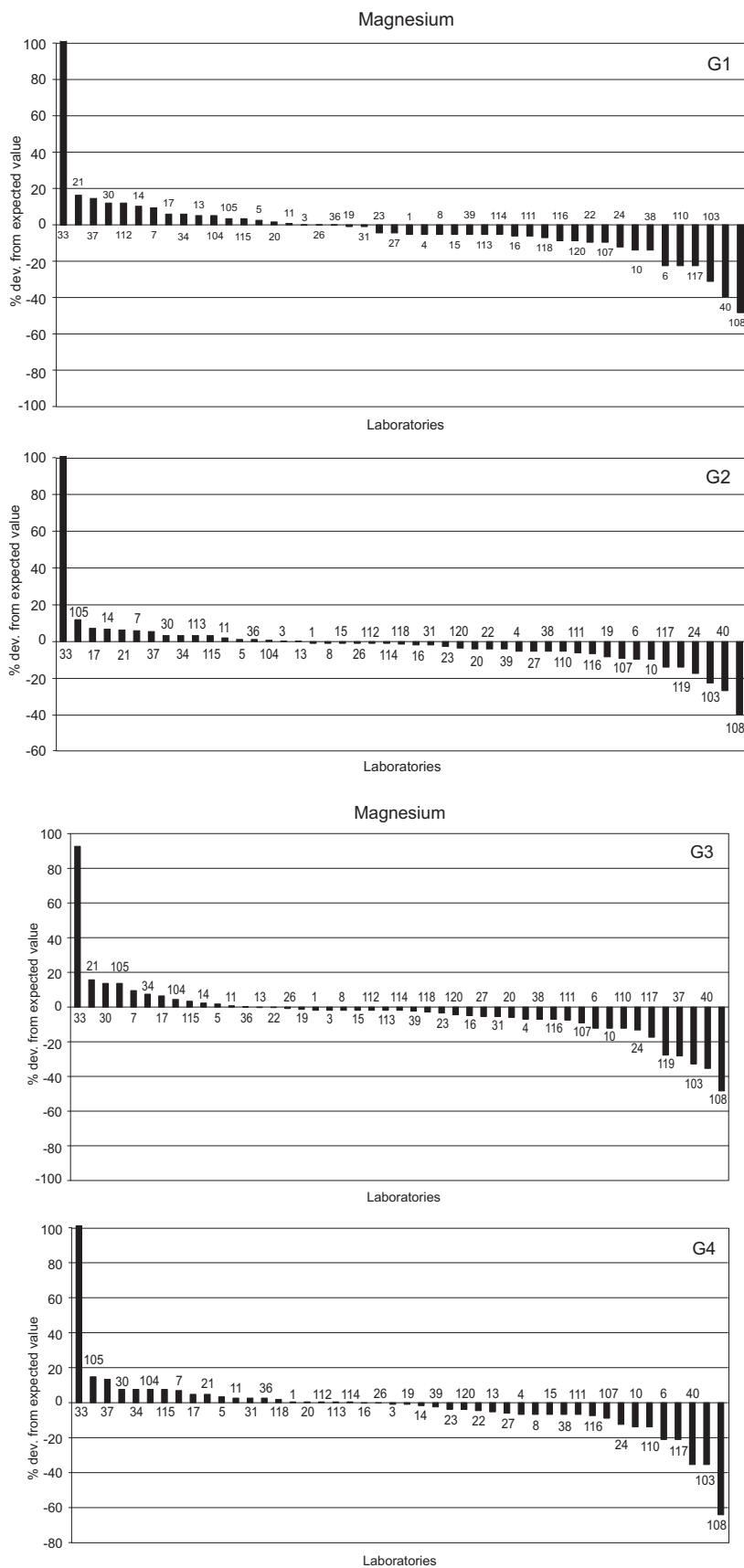


Figure 7: Percent deviation from theoretical value for magnesium.

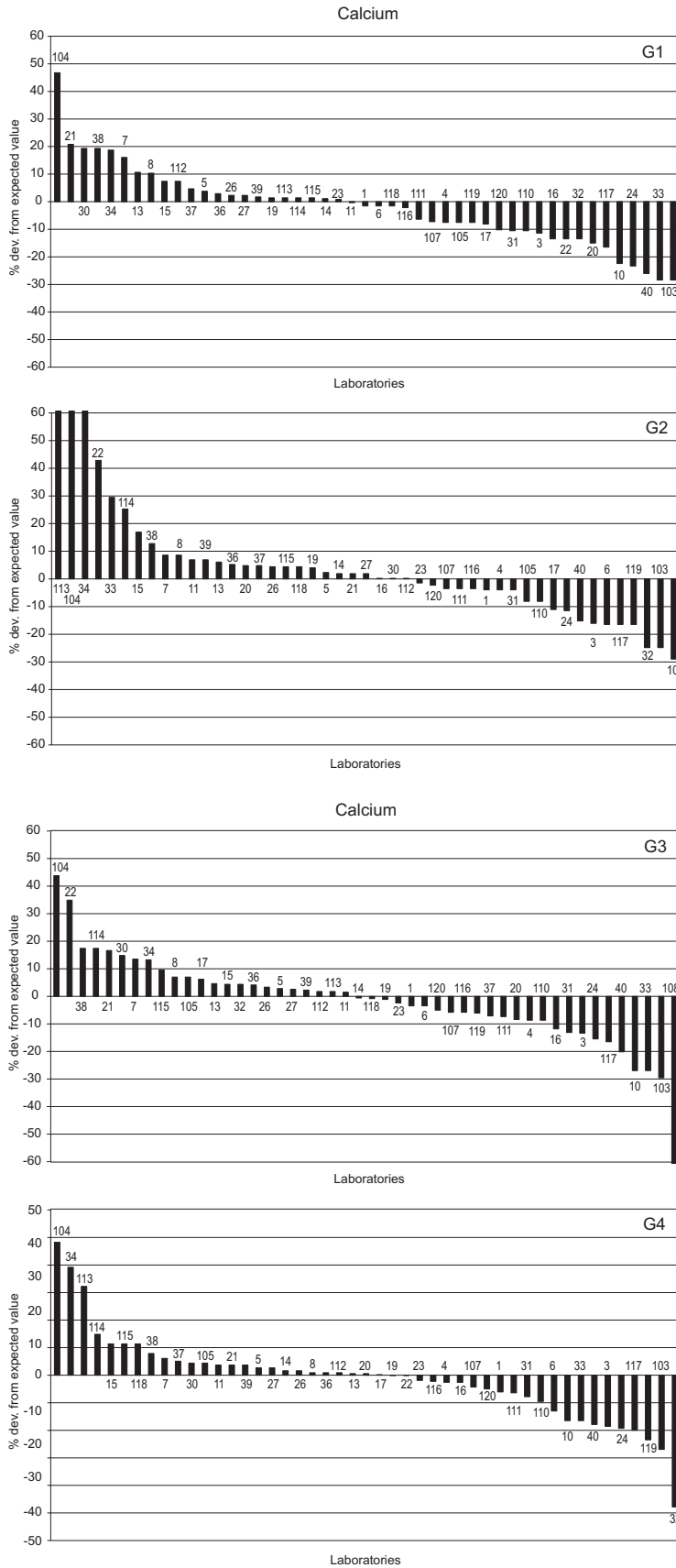


Figure 8: Percent deviation from theoretical value for calcium.

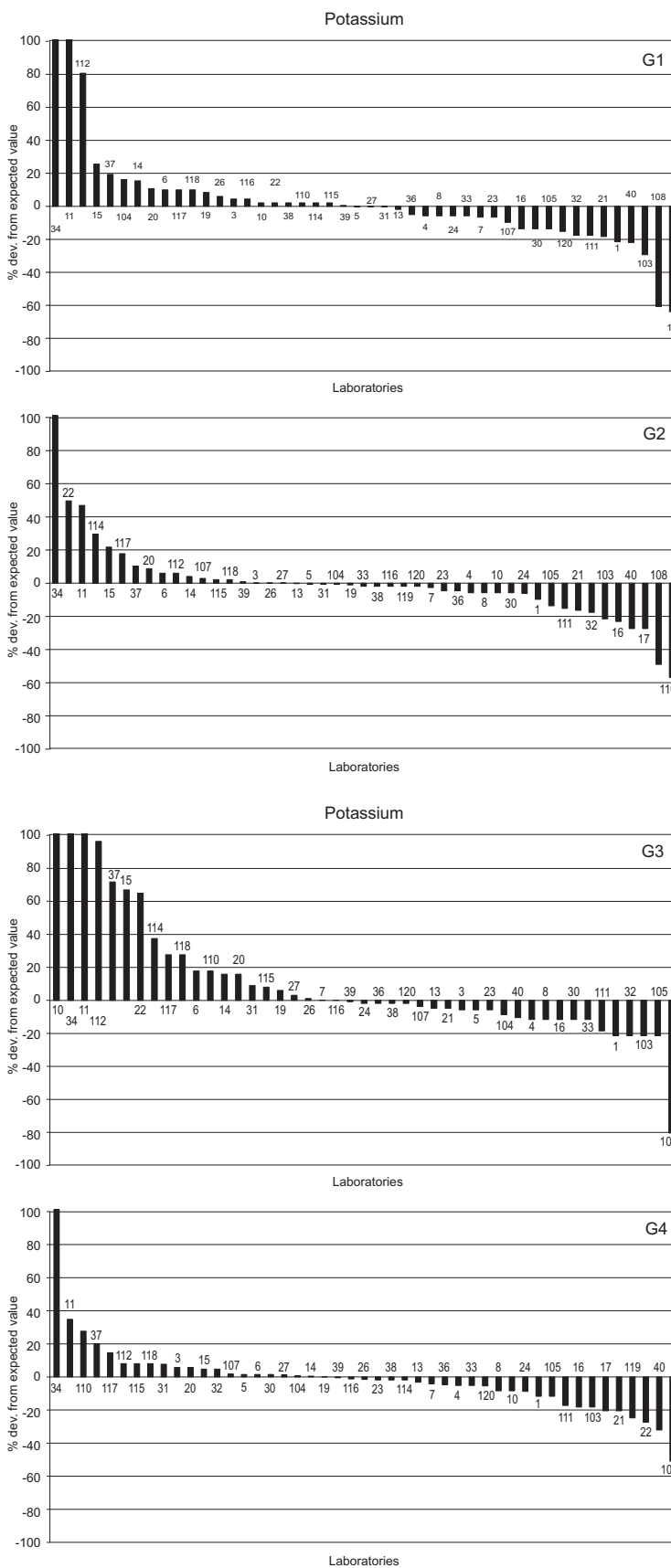


Figure 9: Percent deviation from theoretical value for potassium.

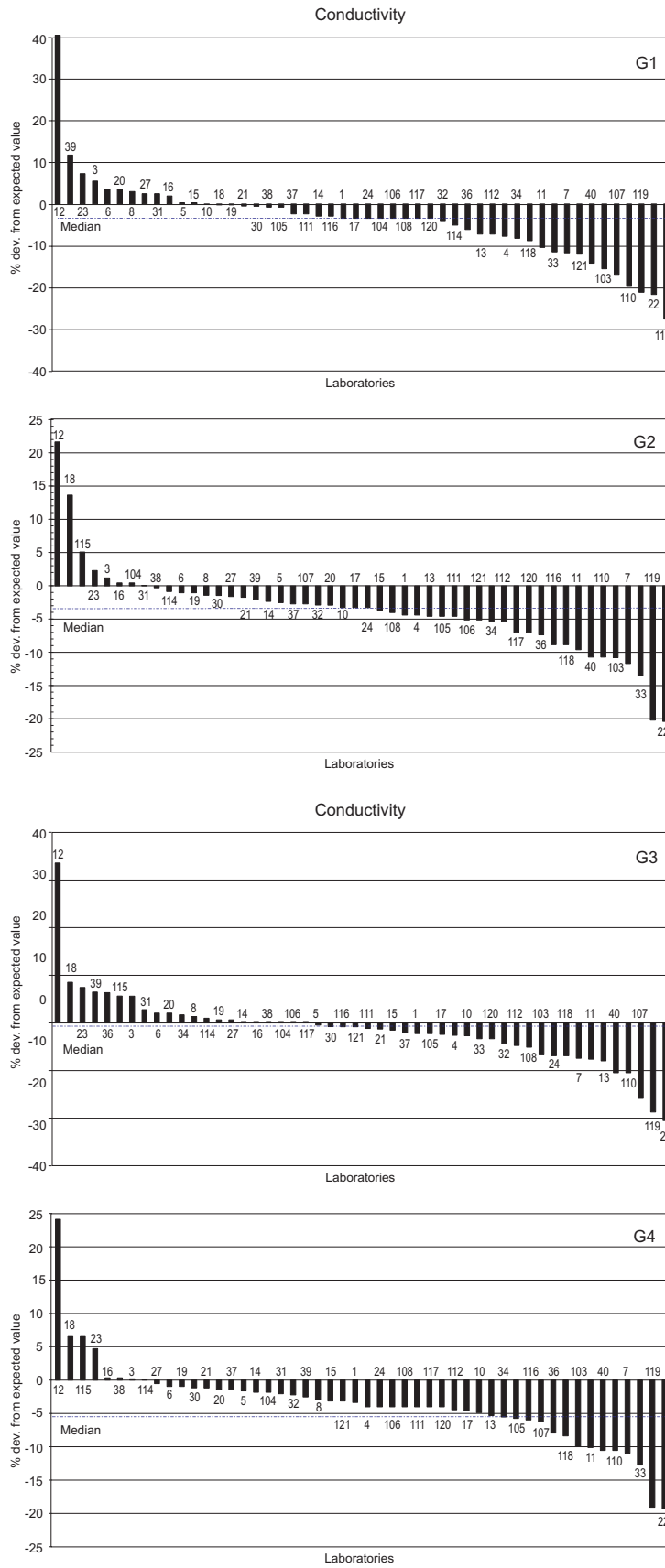


Figure 10: Percent deviation from theoretical value for conductivity.

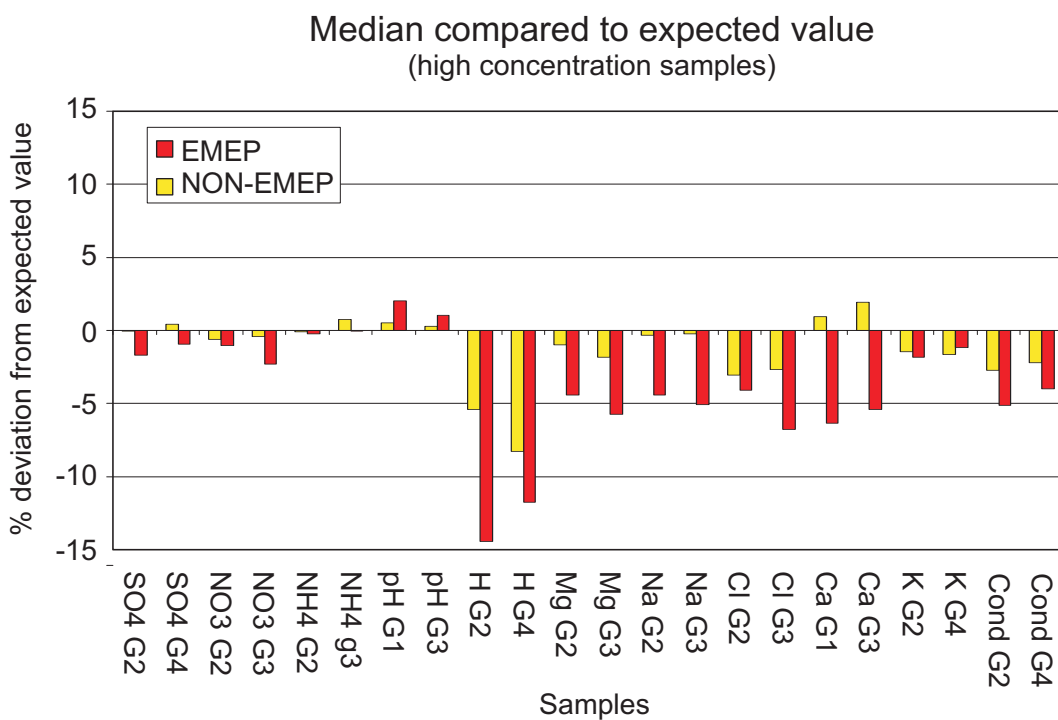
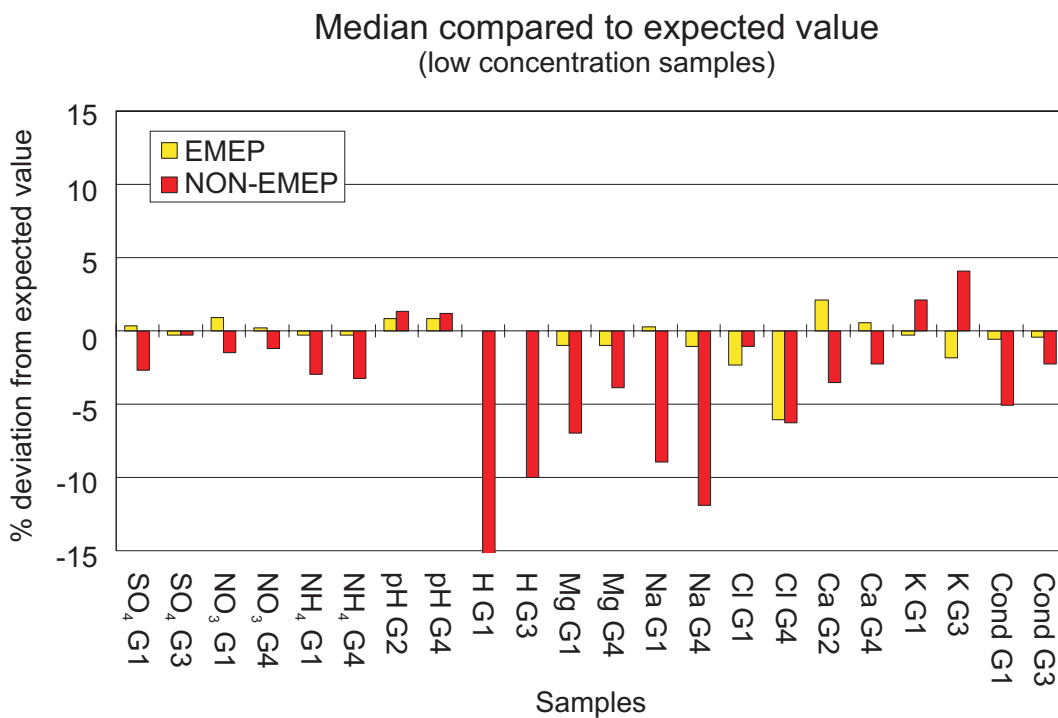


Figure 11: The median compared to theoretical value.