

EMEP – 33rd intercomparison of analytical methods

Laboratory 8, Umweltbundesamt, Langen (Germany)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm ^x
C1	NO ₂	0.057	0.057	0.058	0.004	-0.256	S
C2	NO ₂	0.044	0.043	0.043	0.004	0.245	S
C3	NO ₂	0.109	0.101	0.101	0.005	1.535	S
C4	NO ₂	0.144	0.131	0.131	0.008	1.75	Q

^x EMEP quality norm; the letters in the column indicates:

- S – Satisfactory: Your result deviates less than $\pm 10\%$ of the expected value
- Q – Questionable: Your result deviates between $\pm 10\text{--}20\%$ of the expected value
- U – Unsatisfactory: Your result deviates more than $\pm 20\%$ of the expected value
- B – Blank: You reported either no value or the detection limit

Please check the EMEP intercalibration website for more statistics, Youden plots, updated expected values ect: <http://www.nilu.no/projects/ccc/intercomparison.html>

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EMEP – 33rd intercomparison of analytical methods

Laboratory 10, Institute for Atmospheric Physics (Hungary)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm ^x
C1	NO ₂	0.056	0.057	0.058	0.004	-0.521	S
C2	NO ₂	0.045	0.043	0.043	0.004	0.472	S
C3	NO ₂	0.097	0.101	0.101	0.005	-0.834	S
C4	NO ₂	0.126	0.131	0.131	0.008	-0.607	S

^x EMEP quality norm; the letters in the column indicates:

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EMEP – 33rd intercomparison of analytical methods

Laboratory 12, Met Eireann, Dublin (Ireland)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm ^x
C1	NO ₂	0.062	0.057	0.058	0.004	1.067	S
C2	NO ₂	0.048	0.043	0.043	0.004	1.154	Q
C3	NO ₂	0.109	0.101	0.101	0.005	1.535	S
C4	NO ₂	0.143	0.131	0.131	0.008	1.619	S

^x EMEP quality norm; the letters in the column indicates:

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U – Unsatisfactory: Your result deviates more than $\pm 20\%$ of the expected value

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EMEP – 33rd intercomparison of analytical methods

Laboratory 15, Norwegian Institute for Air Research NILU (Norway)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm ^x
C1	NO ₂	0.057	0.057	0.058	0.004	-0.256	S
C2	NO ₂	0.045	0.043	0.043	0.004	0.472	S
C3	NO ₂	0.092	0.101	0.101	0.005	-1.821	S
C4	NO ₂	0.118	0.131	0.131	0.008	-1.655	S

^x EMEP quality norm; the letters in the column indicates:

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EMEP – 33rd intercomparison of analytical methods

Laboratory 16, Institute of Meteorology and Water Management, Warsaw (Poland)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm ^x
C1	NO ₂	0.059	0.057	0.058	0.004	0.273	S
C2	NO ₂	0.046	0.043	0.043	0.004	0.699	S
C3	NO ₂	0.1	0.101	0.101	0.005	-0.242	S
C4	NO ₂	0.125	0.131	0.131	0.008	-0.738	S

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Laboratory 20, Swedish Environmental Research Institute IVL, Gothenburg (Sweden)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm ^x
C1	NO ₂	0.058	0.057	0.058	0.004	0.009	S
C2	NO ₂	0.044	0.043	0.043	0.004	0.245	S
C3	NO ₂	0.101	0.101	0.101	0.005	-0.044	S
C4	NO ₂	0.127	0.131	0.131	0.008	-0.476	S

^x EMEP quality norm; the letters in the column indicates:

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- Q – Questionable: Your result deviates between $\pm 10\text{--}20\%$ of the expected value
- U – Unsatisfactory: Your result deviates more than $\pm 20\%$ of the expected value
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EMEP – 33rd intercomparison of analytical methods

Laboratory 23, Ricardo-AEA Limited (United Kingdom)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm ^x
C1	NO ₂	0.057	0.057	0.058	0.004	-0.23	S
C2	NO ₂	0.042	0.043	0.043	0.004	-0.141	S
C3	NO ₂	0.098	0.101	0.101	0.005	-0.617	S
C4	NO ₂	0.128	0.131	0.131	0.008	-0.371	S

^x EMEP quality norm; the letters in the column indicates:

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- U – Unsatisfactory: Your result deviates more than $\pm 20\%$ of the expected value
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Laboratory 31, Slovak Hydrometeorological Institute (Slovakia)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm ^x
C1	NO ₂	0.057	0.057	0.058	0.004	-0.256	S
C2	NO ₂	0.042	0.043	0.043	0.004	-0.209	S
C3	NO ₂	0.101	0.101	0.101	0.005	-0.044	S
C4	NO ₂	0.131	0.131	0.131	0.008	0.048	S

^x EMEP quality norm; the letters in the column indicates:

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EMEP – 33rd intercomparison of analytical methods

Laboratory 32, Atmospheric Pollution Research Laboratory, Institute of Physics, Vilnius (Lithuania)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm ^x
C1	NO ₂	0.059	0.057	0.058	0.004	0.273	S
C2	NO ₂	0.044	0.043	0.043	0.004	0.245	S
C3	NO ₂	0.1	0.101	0.101	0.005	-0.242	S
C4	NO ₂	0.133	0.131	0.131	0.008	0.31	S

^x EMEP quality norm; the letters in the column indicates:

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EMEP – 33rd intercomparison of analytical methods

Laboratory 33, Environmental Pollution Observ. Centre (Latvia)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm ^x
C1	NO ₂	0.072	0.057	0.058	0.004	3.767	U
C2	NO ₂	0.058	0.043	0.043	0.004	3.47	U
C3	NO ₂	0.115	0.101	0.101	0.005	2.68	Q
C4	NO ₂	0.144	0.131	0.131	0.008	1.711	Q

^x EMEP quality norm; the letters in the column indicates:

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EMEP – 33rd intercomparison of analytical methods

Laboratory 34, Ministry of Environment and Urbanisation (Turkey)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm ^x
C1	NO ₂	0.051	0.057	0.058	0.004	-1.844	Q
C2	NO ₂	0.029	0.043	0.043	0.004	-3.162	U
C3	NO ₂	0.059	0.101	0.101	0.005	-8.335	U
C4	NO ₂	0.086	0.131	0.131	0.008	-5.845	U

^x EMEP quality norm; the letters in the column indicates:

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U – Unsatisfactory: Your result deviates more than $\pm 20\%$ of the expected value

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EMEP – 33rd intercomparison of analytical methods

Laboratory 39, Environmental Monitoring Laboratory, Institute of Environmental Protection (Poland)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm ^x
C1	NO ₂	0.062	0.057	0.058	0.004	1.067	S
C2	NO ₂	0.04	0.043	0.043	0.004	-0.664	S
C3	NO ₂	0.095	0.101	0.101	0.005	-1.229	S
C4	NO ₂	0.122	0.131	0.131	0.008	-1.131	S

^x EMEP quality norm; the letters in the column indicates:

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Laboratory 42, State Hydrometeorological Service, Chisnau (Moldova)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm ^x
C1	NO ₂	0.078	0.057	0.058	0.004	5.302	U
C2	NO ₂	0.089	0.043	0.043	0.004	10.466	U
C3	NO ₂	0.1	0.101	0.101	0.005	-0.242	S
C4	NO ₂	0.116	0.131	0.131	0.008	-1.917	Q

^x EMEP quality norm; the letters in the column indicates:

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EMEP – 33rd intercomparison of analytical methods

Laboratory 173, Company Petrokemija d.d. (Croatia)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm ^x
C1	NO ₂	0.056	0.057	0.058	0.004	-0.521	S
C2	NO ₂	0.042	0.043	0.043	0.004	-0.209	S
C3	NO ₂	0.097	0.101	0.101	0.005	-0.834	S
C4	NO ₂	0.124	0.131	0.131	0.008	-0.869	S

^x EMEP quality norm; the letters in the column indicates:

- S – Satisfactory: Your result deviates less than $\pm 10\%$ of the expected value
- Q – Questionable: Your result deviates between $\pm 10\text{--}20\%$ of the expected value
- U – Unsatisfactory: Your result deviates more than $\pm 20\%$ of the expected value
- B – Blank: You reported either no value or the detection limit

Please check the EMEP intercalibration website for more statistics, Youden plots, updated expected values ect: <http://www.nilu.no/projects/ccc/intercomparison.html>

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EMEP – 33rd intercomparison of analytical methods

Laboratory 182, Research Institute for Analytical Instrumentation, ICIA (Romania)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm ^x
C1	NO ₂	0.095	0.057	0.058	0.004	9.802	U
C2	NO ₂	0.074	0.043	0.043	0.004	7.059	U
C3	NO ₂	0.165	0.101	0.101	0.005	12.588	U
C4	NO ₂	0.211	0.131	0.131	0.008	10.524	U

^x EMEP quality norm; the letters in the column indicates:

S – Satisfactory: Your result deviates less than $\pm 10\%$ of the expected value

Q – Questionable: Your result deviates between $\pm 10\text{--}20\%$ of the expected value

U – Unsatisfactory: Your result deviates more than $\pm 20\%$ of the expected value

B – Blank: You reported either no value or the detection limit

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EMEP – 33rd intercomparison of analytical methods

Laboratory 183, Public health institute Uzice (Republic of Serbia)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm ^x
C1	NO ₂	0.057	0.057	0.058	0.004	-0.256	S
C2	NO ₂	0.043	0.043	0.043	0.004	0.018	S
C3	NO ₂	0.104	0.101	0.101	0.005	0.548	S
C4	NO ₂	0.131	0.131	0.131	0.008	0.048	S

^x EMEP quality norm; the letters in the column indicates:

S – Satisfactory: Your result deviates less than $\pm 10\%$ of the expected value

Q – Questionable: Your result deviates between $\pm 10\text{--}20\%$ of the expected value

U – Unsatisfactory: Your result deviates more than $\pm 20\%$ of the expected value

B – Blank: You reported either no value or the detection limit

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EMEP – 33rd intercomparison of analytical methods

Laboratory 184, Institute for Public Health Pozarevac (Republic of Serbia)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm ^x
C1	NO ₂	0.058	0.057	0.058	0.004	0.009	S
C2	NO ₂	0.043	0.043	0.043	0.004	0.018	S
C3	NO ₂	0.101	0.101	0.101	0.005	-0.044	S
C4	NO ₂	0.132	0.131	0.131	0.008	0.179	S

^x EMEP quality norm; the letters in the column indicates:

S – Satisfactory: Your result deviates less than $\pm 10\%$ of the expected value

Q – Questionable: Your result deviates between $\pm 10\text{--}20\%$ of the expected value

U – Unsatisfactory: Your result deviates more than $\pm 20\%$ of the expected value

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EMEP – 33rd intercomparison of analytical methods

Laboratory 185, Public Health Centre - Cacak, Department for Sanitary Chemistry and Ecotoxicology
(Republic of Serbia)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm ^x
C1	NO ₂	0.057	0.057	0.058	0.004	-0.256	S
C2	NO ₂	0.042	0.043	0.043	0.004	-0.209	S
C3	NO ₂	0.101	0.101	0.101	0.005	-0.044	S
C4	NO ₂	0.134	0.131	0.131	0.008	0.441	S

^x EMEP quality norm; the letters in the column indicates:

S – Satisfactory: Your result deviates less than $\pm 10\%$ of the expected value

Q – Questionable: Your result deviates between $\pm 10\text{--}20\%$ of the expected value

U – Unsatisfactory: Your result deviates more than $\pm 20\%$ of the expected value

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EMEP – 33rd intercomparison of analytical methods

Laboratory 186, Public Health Institute - Kraljevo (Republic of Serbia)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm ^x
C1	NO ₂	0.058	0.057	0.058	0.004	0.009	S
C2	NO ₂	0.042	0.043	0.043	0.004	-0.209	S
C3	NO ₂	0.102	0.101	0.101	0.005	0.153	S
C4	NO ₂	0.135	0.131	0.131	0.008	0.572	S

^x EMEP quality norm; the letters in the column indicates:

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EMEP – 33rd intercomparison of analytical methods

Laboratory 187, Public Health Institute - Nis, Department for Sanitary Chemistry (Republic of Serbia)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm ^x
C1	NO ₂	0.055	0.057	0.058	0.004	-0.786	S
C2	NO ₂	0.043	0.043	0.043	0.004	0.018	S
C3	NO ₂	0.102	0.101	0.101	0.005	0.153	S
C4	NO ₂	0.135	0.131	0.131	0.008	0.572	S

^x EMEP quality norm; the letters in the column indicates:

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EMEP – 33rd intercomparison of analytical methods

Laboratory 188, Institute of Public Health - Krusevac (Republic of Serbia)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm ^x
C1	NO ₂	0.059	0.057	0.058	0.004	0.273	S
C2	NO ₂	0.042	0.043	0.043	0.004	-0.209	S
C3	NO ₂	0.104	0.101	0.101	0.005	0.548	S
C4	NO ₂	0.138	0.131	0.131	0.008	0.964	S

^x EMEP quality norm; the letters in the column indicates:

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EMEP – 33rd intercomparison of analytical methods

Laboratory 189, Institute of Public Health - Kikinda (Republic of Serbia)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm ^x
C1	NO ₂	0.056	0.057	0.058	0.004	-0.521	S
C2	NO ₂	0.041	0.043	0.043	0.004	-0.436	S
C3	NO ₂	0.102	0.101	0.101	0.005	0.153	S
C4	NO ₂	0.13	0.131	0.131	0.008	-0.083	S

^x EMEP quality norm; the letters in the column indicates:

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Q – Questionable: Your result deviates between $\pm 10\text{--}20\%$ of the expected value

U – Unsatisfactory: Your result deviates more than $\pm 20\%$ of the expected value

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EMEP – 33rd intercomparison of analytical methods

Laboratory 192, The Public Health Institute Sabac (Republic of Serbia)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm ^x
C1	NO ₂	0.056	0.057	0.058	0.004	-0.521	S
C2	NO ₂	0.043	0.043	0.043	0.004	0.018	S
C3	NO ₂	0.102	0.101	0.101	0.005	0.153	S
C4	NO ₂	0.132	0.131	0.131	0.008	0.179	S

^x EMEP quality norm; the letters in the column indicates:

S – Satisfactory: Your result deviates less than $\pm 10\%$ of the expected value

Q – Questionable: Your result deviates between $\pm 10\text{--}20\%$ of the expected value

U – Unsatisfactory: Your result deviates more than $\pm 20\%$ of the expected value

B – Blank: You reported either no value or the detection limit

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EMEP – 33rd intercomparison of analytical methods

Laboratory 193, Institute of Public Health of Vojvodina (Republic of Serbia)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm ^x
C1	NO ₂	0.056	0.057	0.058	0.004	-0.521	S
C2	NO ₂	0.041	0.043	0.043	0.004	-0.436	S
C3	NO ₂	0.097	0.101	0.101	0.005	-0.834	S
C4	NO ₂	0.128	0.131	0.131	0.008	-0.345	S

^x EMEP quality norm; the letters in the column indicates:

S – Satisfactory: Your result deviates less than $\pm 10\%$ of the expected value

Q – Questionable: Your result deviates between $\pm 10\text{--}20\%$ of the expected value

U – Unsatisfactory: Your result deviates more than $\pm 20\%$ of the expected value

B – Blank: You reported either no value or the detection limit

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EMEP – 33rd intercomparison of analytical methods

Laboratory 194, Institute of Public Health - Zrenjanin (Republic of Serbia)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm ^x
C1	NO ₂	0.063	0.057	0.058	0.004	1.226	S
C2	NO ₂	0.041	0.043	0.043	0.004	-0.346	S
C3	NO ₂	0.101	0.101	0.101	0.005	-0.044	S
C4	NO ₂	0.124	0.131	0.131	0.008	-0.804	S

^x EMEP quality norm; the letters in the column indicates:

S – Satisfactory: Your result deviates less than $\pm 10\%$ of the expected value

Q – Questionable: Your result deviates between $\pm 10\text{--}20\%$ of the expected value

U – Unsatisfactory: Your result deviates more than $\pm 20\%$ of the expected value

B – Blank: You reported either no value or the detection limit

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EMEP – 33rd intercomparison of analytical methods

Laboratory 195, Institute of Public Health - Suobtica (Republic of Serbia)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm ^x
C1	NO ₂	0.055	0.057	0.058	0.004	-0.786	S
C2	NO ₂	0.041	0.043	0.043	0.004	-0.436	S
C3	NO ₂	0.095	0.101	0.101	0.005	-1.229	S
C4	NO ₂	0.123	0.131	0.131	0.008	-1	S

^x EMEP quality norm; the letters in the column indicates:

S – Satisfactory: Your result deviates less than $\pm 10\%$ of the expected value

Q – Questionable: Your result deviates between $\pm 10\text{--}20\%$ of the expected value

U – Unsatisfactory: Your result deviates more than $\pm 20\%$ of the expected value

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EMEP – 33rd intercomparison of analytical methods

Laboratory 197, Institute of Occupational Health - Novi Sad (Republic of Serbia)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm ^x
C1	NO ₂	0.053	0.057	0.058	0.004	-1.315	S
C2	NO ₂	0.04	0.043	0.043	0.004	-0.664	S
C3	NO ₂	0.094	0.101	0.101	0.005	-1.426	S
C4	NO ₂	0.123	0.131	0.131	0.008	-1	S

^x EMEP quality norm; the letters in the column indicates:

S – Satisfactory: Your result deviates less than $\pm 10\%$ of the expected value

Q – Questionable: Your result deviates between $\pm 10\text{--}20\%$ of the expected value

U – Unsatisfactory: Your result deviates more than $\pm 20\%$ of the expected value

B – Blank: You reported either no value or the detection limit

Please check the EMEP intercalibration website for more statistics, Youden plots, updated expected values ect: <http://www.nilu.no/projects/ccc/intercomparison.html>

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EMEP – 33rd intercomparison of analytical methods

Laboratory 198, Institute for public health - Sremska Mitrovica (Republic of Serbia)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm ^x
C1	NO ₂	0.06	0.057	0.058	0.004	0.591	S
C2	NO ₂	0.041	0.043	0.043	0.004	-0.459	S
C3	NO ₂	0.104	0.101	0.101	0.005	0.627	S
C4	NO ₂	0.138	0.131	0.131	0.008	0.938	S

^x EMEP quality norm; the letters in the column indicates:

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EMEP – 33rd intercomparison of analytical methods

Laboratory 200, FUB AG (Switzerland)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm ^x
C1	NO ₂	0.057	0.057	0.058	0.004	-0.256	S
C2	NO ₂	0.043	0.043	0.043	0.004	0.018	S
C3	NO ₂	0.101	0.101	0.101	0.005	-0.044	S
C4	NO ₂	0.13	0.131	0.131	0.008	-0.083	S

^x EMEP quality norm; the letters in the column indicates:

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U – Unsatisfactory: Your result deviates more than $\pm 20\%$ of the expected value

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Please check the EMEP intercalibration website for more statistics, Youden plots, updated expected values ect: <http://www.nilu.no/projects/ccc/intercomparison.html>

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EMEP – 33rd intercomparison of analytical methods

Laboratory 201, Public Health Institute Timok (Republic of Serbia)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm ^x
C1	NO ₂	0.06	0.057	0.058	0.004	0.538	S
C2	NO ₂	0.046	0.043	0.043	0.004	0.699	S
C3	NO ₂	0.11	0.101	0.101	0.005	1.732	S
C4	NO ₂	0.144	0.131	0.131	0.008	1.75	Q

^x EMEP quality norm; the letters in the column indicates:

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