

EMEP – 41st intercomparison of analytical methods - 2023

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 [‡]
C1	NO ₂ <i>µg N/ml</i>	0.12	0.117	0.115	0.005	1.005	S
C2		0.155	0.149	0.148	0.008	0.888	S
C3		0.262	0.261	0.259	0.012	0.258	S
C4		0.169	0.165	0.165	0.008	0.437	S

* Z score is unitless

[‡] EMEP quality norm; letters indicate:

S – Satisfactory: Your result deviates less than ±10% of the expected value

Q – Questionable: Your result deviates between ±10-20% of the expected value

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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: <https://projects.nilu.no/ccc/intercomparison/>

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Laboratory 15, 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 [‡]
C1	NO ₂ <i>µg N/ml</i>	0.109	0.117	0.115	0.005	-1.299	S
C2		0.139	0.149	0.148	0.008	-1.222	S
C3		0.246	0.261	0.259	0.012	-1.024	S
C4		0.154	0.165	0.165	0.008	-1.336	S

* Z score is unitless

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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 [†]
C1	NO ₂	0.109	0.117	0.115	0.005	-1.299	S
C2		0.142	0.149	0.148	0.008	-0.826	S
C3	µg N/ml	0.251	0.261	0.259	0.012	-0.624	S
C4		0.156	0.165	0.165	0.008	-1.099	S

* Z score is unitless

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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 [†]
C1	NO ₂	0.118	0.117	0.115	0.005	0.586	S
C2		0.148	0.149	0.148	0.008	-0.035	S
C3	µg N/ml	0.255	0.261	0.259	0.012	-0.303	S
C4		0.164	0.165	0.165	0.008	-0.154	S

* Z score is unitless

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Laboratory 22, Institute of Global Climate and Ecology (Russian Federation)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score *	EMEP quality norm [‡]
C1	NO ₂ <i>µg N/ml</i>	0.165	0.117	0.115	0.005	10.431	U
C2		0.214	0.149	0.148	0.008	8.668	U
C3		0.361	0.261	0.259	0.012	8.188	U
C4		0.234	0.165	0.165	0.008	8.117	U

* Z score is unitless

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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 [‡]
C1	NO ₂ <i>µg N/ml</i>	0.114	0.117	0.115	0.005	-0.21	S
C2		0.147	0.149	0.148	0.008	-0.18	S
C3		0.256	0.261	0.259	0.012	-0.231	S
C4		0.163	0.165	0.165	0.008	-0.296	S

* Z score is unitless

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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 [‡]
C1	NO ₂ µg N/ml	0.126	0.117	0.115	0.005	2.262	S
C2		0.163	0.149	0.148	0.008	1.943	S
C3		0.275	0.261	0.259	0.012	1.299	S
C4		0.177	0.165	0.165	0.008	1.382	S

* Z score is unitless

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Laboratory 32, Center for Physical Sciences and Technology (Lithuania)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score *	EMEP quality norm [‡]
C1	NO ₂ <i>µg N/ml</i>	0.111	0.117	0.115	0.005	-0.88	S
C2		0.148	0.149	0.148	0.008	-0.035	S
C3		0.263	0.261	0.259	0.012	0.338	S
C4		0.166	0.165	0.165	0.008	0.082	S

* Z score is unitless

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Laboratory 33, Latvian Environment, Geology and Meteorology 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 [‡]
C1	NO ₂ <i>µg N/ml</i>	0.11	0.117	0.115	0.005	-1.173	S
C2		0.164	0.149	0.148	0.008	2.075	Q
C3		0.273	0.261	0.259	0.012	1.139	S
C4		0.181	0.165	0.165	0.008	1.854	S

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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 [‡]
C1	NO ₂ <i>µg N/ml</i>	0.121	0.117	0.115	0.005	1.319	S
C2		0.16	0.149	0.148	0.008	1.508	S
C3		0.297	0.261	0.259	0.012	3.085	Q
C4		0.178	0.165	0.165	0.008	1.453	S

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Laboratory 42, Environment Reference Laboratory, Environment Agency
(Moldova)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score *	EMEP quality norm [†]
C1	NO ₂ <i>µg N/ml</i>	0.107	0.117	0.115	0.005	-1.718	S
C2		0.14	0.149	0.148	0.008	-1.09	S
C3		0.25	0.261	0.259	0.012	-0.704	S
C4		0.16	0.165	0.165	0.008	-0.627	S

* Z score is unitless

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Laboratory 110, Thüringer Landesamt für Landwirtschaft und ländlichen Raum (TLLLR) (Germany)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score *	EMEP quality norm [†]
C1	NO ₂	0.115	0.117	0.115	0.005	-0.042	S
C2		0.147	0.149	0.148	0.008	-0.167	S
C3	µg N/ml	0.261	0.261	0.259	0.012	0.178	S
C4		0.165	0.165	0.165	0.008	-0.036	S

* Z score is unitless

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Laboratory 178, Laboratory of Hydrochemistry and Atmospheric Chemistry an EANET Monitoring Laboratory (Russian Federation)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score *	EMEP quality norm [†]
C1	NO ₂ <i>µg N/ml</i>	-999	0.117	0.115	0.005		B
C2		0.13	0.149	0.148	0.008	-2.408	Q
C3		0.23	0.261	0.259	0.012	-2.306	Q
C4		0.14	0.165	0.165	0.008	-2.99	Q

* Z score is unitless

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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 [‡]
C1	NO ₂ <i>µg N/ml</i>	0.115	0.117	0.115	0.005	-0.075	S
C2		0.142	0.149	0.148	0.008	-0.794	S
C3		0.243	0.261	0.259	0.012	-1.255	S
C4		0.161	0.165	0.165	0.008	-0.461	S

* Z score is unitless

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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 [‡]
C1	NO ₂ <i>µg N/ml</i>	0.114	0.117	0.115	0.005	-0.252	S
C2		0.144	0.149	0.148	0.008	-0.562	S
C3		0.254	0.261	0.259	0.012	-0.383	S
C4		0.162	0.165	0.165	0.008	-0.39	S

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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 [†]
C1	NO ₂	0.112	0.117	0.115	0.005	-0.671	S
C2		0.145	0.149	0.148	0.008	-0.43	S
C3	µg N/ml	0.255	0.261	0.259	0.012	-0.303	S
C4		0.163	0.165	0.165	0.008	-0.272	S

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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 [†]
C1	NO ₂ <i>µg N/ml</i>	0.118	0.117	0.115	0.005	0.586	S
C2		0.149	0.149	0.148	0.008	0.097	S
C3		0.262	0.261	0.259	0.012	0.258	S
C4		0.167	0.165	0.165	0.008	0.2	S

* Z score is unitless

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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 [‡]
C1	NO ₂ µg N/ml	0.111	0.117	0.115	0.005	-0.88	S
C2		0.146	0.149	0.148	0.008	-0.299	S
C3		0.262	0.261	0.259	0.012	0.258	S
C4		0.17	0.165	0.165	0.008	0.555	S

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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 [‡]
C1	NO ₂	0.116	0.117	0.115	0.005	0.167	S
C2		0.149	0.149	0.148	0.008	0.097	S
C3	µg N/ml	0.262	0.261	0.259	0.012	0.258	S
C4		0.169	0.165	0.165	0.008	0.437	S

* Z score is unitless

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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 [‡]
C1	NO ₂ <i>µg N/ml</i>	0.117	0.117	0.115	0.005	0.377	S
C2		0.152	0.149	0.148	0.008	0.493	S
C3		0.261	0.261	0.259	0.012	0.178	S
C4		0.173	0.165	0.165	0.008	0.909	S

* Z score is unitless

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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 [†]
C1	NO ₂	0.118	0.117	0.115	0.005	0.586	S
C2		0.15	0.149	0.148	0.008	0.229	S
C3	µg N/ml	0.257	0.261	0.259	0.012	-0.143	S
C4		0.167	0.165	0.165	0.008	0.2	S

* Z score is unitless

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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 [‡]
C1	NO ₂	0.116	0.117	0.115	0.005	0.167	S
C2		0.149	0.149	0.148	0.008	0.097	S
C3	µg N/ml	0.263	0.261	0.259	0.012	0.338	S
C4		0.166	0.165	0.165	0.008	0.082	S

* Z score is unitless

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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 [‡]
C1	NO ₂ <i>µg N/ml</i>	0.121	0.117	0.115	0.005	1.215	S
C2		0.155	0.149	0.148	0.008	0.888	S
C3		0.257	0.261	0.259	0.012	-0.143	S
C4		0.168	0.165	0.165	0.008	0.319	S

* Z score is unitless

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Laboratory 203, The Public Health Institute Vranje (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 [‡]
C1	NO ₂	0.12	0.117	0.115	0.005	1.005	S
C2		0.15	0.149	0.148	0.008	0.229	S
C3	µg N/ml	0.265	0.261	0.259	0.012	0.498	S
C4		0.17	0.165	0.165	0.008	0.555	S

* Z score is unitless

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U – Unsatisfactory: Your result deviates more than ±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: <https://projects.nilu.no/ccc/intercomparison/>

EMEP – 41st intercomparison of analytical methods - 2023

Laboratory 208, VINCA - Vinca Institute of Nuclear Sciences (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 [‡]
C1	NO ₂ <i>µg N/ml</i>	0.112	0.117	0.115	0.005	-0.775	S
C2		0.144	0.149	0.148	0.008	-0.496	S
C3		0.251	0.261	0.259	0.012	-0.664	S
C4		0.159	0.165	0.165	0.008	-0.804	S

* Z score is unitless

[‡] EMEP quality norm; letters indicate:

S – Satisfactory: Your result deviates less than ±10% of the expected value

Q – Questionable: Your result deviates between ±10-20% of the expected value

U – Unsatisfactory: Your result deviates more than ±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: <https://projects.nilu.no/ccc/intercomparison/>