



EMEP – 38th intercomparison of analytical methods

Laboratory 10, Air Quality Reference Centre (Hungary)

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	0.057	0.06	0.06	0.005	-0.631	S
C2		0.068	0.066	0.066	0.004	0.467	S
C3		0.1	0.104	0.104	0.007	-0.605	S
C4		0.107	0.11	0.111	0.006	-0.626	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: <http://www.nilu.no/projects/ccc/intercomparison.html>

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EMEP – 38th 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 [†]
C1	NO ₂ µg N/ml	0.065	0.06	0.06	0.005	1.057	S
C2		0.068	0.066	0.066	0.004	0.467	S
C3		0.105	0.104	0.104	0.007	0.162	S
C4		0.113	0.11	0.111	0.006	0.309	S

* Z score is unitless

[†] EMEP quality norm; letters indicate:

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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 *
C1	NO ₂ µg N/ml	0.068	0.06	0.06	0.005	1.689	Q
C2		0.074	0.066	0.066	0.004	1.995	Q
C3		0.116	0.104	0.104	0.007	1.849	Q
C4		0.121	0.11	0.111	0.006	1.556	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 µg N/ml	0.057	0.06	0.06	0.005	-0.631	S
C2		0.062	0.066	0.066	0.004	-1.062	S
C3		0.099	0.104	0.104	0.007	-0.759	S
C4		0.104	0.11	0.111	0.006	-1.093	S

* Z score is unitless

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Laboratory 19, Centro Nacional de Sanidad Ambiental (Spain)

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	0.058	0.06	0.06	0.005	-0.42	S
C2		0.063	0.066	0.066	0.004	-0.807	S
C3		0.099	0.104	0.104	0.007	-0.759	S
C4		0.105	0.11	0.111	0.006	-0.937	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 µg N/ml	0.057	0.06	0.06	0.005	-0.631	S
C2		0.059	0.066	0.066	0.004	-1.826	Q
C3		0.098	0.104	0.104	0.007	-0.912	S
C4		0.104	0.11	0.111	0.006	-1.093	S

* Z score is unitless

✕ EMEP quality norm; letters indicate:

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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 µg N/ml	0.05	0.06	0.06	0.005	-2.107	Q
C2		0.052	0.066	0.066	0.004	-3.61	U
C3		0.043	0.104	0.104	0.007	-9.349	U
C4		0.047	0.11	0.111	0.006	-9.976	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 µg N/ml	0.057	0.06	0.06	0.005	-0.673	S
C2		0.063	0.066	0.066	0.004	-0.756	S
C3		0.102	0.104	0.104	0.007	-0.314	S
C4		0.108	0.11	0.111	0.006	-0.423	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 <i>µg N/ml</i>	0.063	0.06	0.06	0.005	0.635	S
C2		0.069	0.066	0.066	0.004	0.721	S
C3		0.11	0.104	0.104	0.007	0.929	S
C4		0.117	0.11	0.111	0.006	0.933	S

* Z score is unitless

[†] EMEP quality norm; letters indicate:

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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 µg N/ml	0.062	0.06	0.06	0.005	0.424	S
C2		0.07	0.066	0.066	0.004	0.976	S
C3		0.105	0.104	0.104	0.007	0.162	S
C4		0.112	0.11	0.111	0.006	0.154	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 µg N/ml	0.072	0.06	0.06	0.005	2.533	Q
C2		0.079	0.066	0.066	0.004	3.269	Q
C3		0.113	0.104	0.104	0.007	1.389	S
C4		0.12	0.11	0.111	0.006	1.4	S

* Z score is unitless

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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 µg N/ml	0.05	0.06	0.06	0.005	-2.107	Q
C2		0.06	0.066	0.066	0.004	-1.572	S
C3		0.09	0.104	0.104	0.007	-2.139	Q
C4		0.1	0.11	0.111	0.006	-1.717	S

* 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 µg N/ml	0.063	0.06	0.06	0.005	0.635	S
C2		0.067	0.066	0.066	0.004	0.212	S
C3		0.105	0.104	0.104	0.007	0.162	S
C4		0.111	0.11	0.111	0.006	-0.002	S

* Z score is unitless

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EMEP – 38th 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 [†]
C1	NO ₂ µg N/ml	0.06	0.06	0.06	0.005	0.002	S
C2		0.066	0.066	0.066	0.004	-0.043	S
C3		0.103	0.104	0.104	0.007	-0.145	S
C4		0.111	0.11	0.111	0.006	-0.002	S

* Z score is unitless

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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 µg N/ml	0.062	0.06	0.06	0.005	0.424	S
C2		0.067	0.066	0.066	0.004	0.212	S
C3		0.102	0.104	0.104	0.007	-0.298	S
C4		0.11	0.11	0.111	0.006	-0.158	S

* Z score is unitless

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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 [†]
C1	NO ₂ <i>µg N/ml</i>	0.06	0.06	0.06	0.005	0.002	S
C2		0.066	0.066	0.066	0.004	-0.043	S
C3		0.099	0.104	0.104	0.007	-0.759	S
C4		0.108	0.11	0.111	0.006	-0.47	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 µg N/ml	0.061	0.06	0.06	0.005	0.213	S
C2		0.065	0.066	0.066	0.004	-0.298	S
C3		0.103	0.104	0.104	0.007	-0.145	S
C4		0.109	0.11	0.111	0.006	-0.314	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 µg N/ml	0.058	0.06	0.06	0.005	-0.42	S
C2		0.064	0.066	0.066	0.004	-0.552	S
C3		0.102	0.104	0.104	0.007	-0.298	S
C4		0.108	0.11	0.111	0.006	-0.47	S

* Z score is unitless

✕ EMEP quality norm; letters indicate:

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EMEP – 38th 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 [†]
C1	NO ₂ µg N/ml	0.061	0.06	0.06	0.005	0.213	S
C2		0.064	0.066	0.066	0.004	-0.552	S
C3		0.103	0.104	0.104	0.007	-0.145	S
C4		0.108	0.11	0.111	0.006	-0.47	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 µg N/ml	0.067	0.06	0.06	0.005	1.478	Q
C2		0.072	0.066	0.066	0.004	1.486	S
C3		0.107	0.104	0.104	0.007	0.469	S
C4		0.12	0.11	0.111	0.006	1.4	S

* Z score is unitless

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EMEP – 38th intercomparison of analytical methods

Laboratory 206, Public Health Institute Valjevo (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	0.064	0.06	0.06	0.005	0.846	S
C2		0.07	0.066	0.066	0.004	0.976	S
C3		0.118	0.104	0.104	0.007	2.156	Q
C4		0.124	0.11	0.111	0.006	2.024	Q

* Z score is unitless

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