

## EMEP – 42<sup>nd</sup> intercomparison of analytical methods - 2024

### 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 <sup>‡</sup>
C1	NO <sub>2</sub> <i>µg N/ml</i>	0.194	0.187	0.189	0.007	0.667	S
C2		0.143	0.122	0.124	0.009	2.169	Q
C3		0.23	0.248	0.249	0.012	-1.554	S
C4		0.157	0.154	0.155	0.007	0.321	S

\* Z score is unitless

<sup>‡</sup> 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://emep-ccc.nilu.no/intercomparison>

## EMEP – 42<sup>nd</sup> intercomparison of analytical methods - 2024

### 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 <sup>‡</sup>
C1	NO <sub>2</sub> <i>µg N/ml</i>	0.195	0.187	0.189	0.007	0.807	S
C2		0.126	0.122	0.124	0.009	0.235	S
C3		0.256	0.248	0.249	0.012	0.607	S
C4		0.157	0.154	0.155	0.007	0.321	S

\* Z score is unitless

<sup>‡</sup> 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://emep-ccc.nilu.no/intercomparison>

## EMEP – 42<sup>nd</sup> intercomparison of analytical methods - 2024

### 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 <sup>‡</sup>
C1	NO <sub>2</sub> <i>µg N/ml</i>	0.179	0.187	0.189	0.007	-1.436	S
C2		0.115	0.122	0.124	0.009	-1.017	S
C3		0.237	0.248	0.249	0.012	-0.972	S
C4		0.145	0.154	0.155	0.007	-1.481	S

\* Z score is unitless

<sup>‡</sup> 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://emep-ccc.nilu.no/intercomparison>

## EMEP – 42<sup>nd</sup> intercomparison of analytical methods - 2024

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 <sup>†</sup>
C1	NO <sub>2</sub>	0.181	0.187	0.189	0.007	-1.156	S
C2		0.12	0.122	0.124	0.009	-0.448	S
C3	µg N/ml	0.245	0.248	0.249	0.012	-0.308	S
C4		0.151	0.154	0.155	0.007	-0.58	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://emep-ccc.nilu.no/intercomparison>

## EMEP – 42<sup>nd</sup> intercomparison of analytical methods - 2024

### 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 <sup>‡</sup>
C1	NO <sub>2</sub> <i>µg N/ml</i>	0.181	0.187	0.189	0.007	-1.156	S
C2		0.118	0.122	0.124	0.009	-0.676	S
C3		0.241	0.248	0.249	0.012	-0.64	S
C4		0.149	0.154	0.155	0.007	-0.881	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://emep-ccc.nilu.no/intercomparison>

## EMEP – 42<sup>nd</sup> intercomparison of analytical methods - 2024

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 <sup>†</sup>
C1	NO <sub>2</sub>	0.191	0.187	0.189	0.007	0.246	S
C2		0.124	0.122	0.124	0.009	0.007	S
C3	µg N/ml	0.254	0.248	0.249	0.012	0.441	S
C4		0.156	0.154	0.155	0.007	0.17	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://emep-ccc.nilu.no/intercomparison>

## EMEP – 42<sup>nd</sup> intercomparison of analytical methods - 2024

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 <sup>‡</sup>
C1	NO <sub>2</sub> <i>µg N/ml</i>	0.169	0.187	0.189	0.007	-2.839	S
C2		0.111	0.122	0.124	0.009	-1.472	S
C3		0.224	0.248	0.249	0.012	-2.053	S
C4		0.137	0.154	0.155	0.007	-2.682	Q

\* Z score is unitless

<sup>‡</sup> 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://emep-ccc.nilu.no/intercomparison>

## EMEP – 42<sup>nd</sup> intercomparison of analytical methods - 2024

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 <sup>‡</sup>
C1	NO <sub>2</sub> <i>µg N/ml</i>	0.192	0.187	0.189	0.007	0.387	S
C2		0.126	0.122	0.124	0.009	0.235	S
C3		0.253	0.248	0.249	0.012	0.357	S
C4		0.158	0.154	0.155	0.007	0.471	S

\* Z score is unitless

<sup>‡</sup> 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://emep-ccc.nilu.no/intercomparison>



## EMEP – 42<sup>nd</sup> intercomparison of analytical methods - 2024

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 <sup>‡</sup>
C1	NO <sub>2</sub> <i>µg N/ml</i>	0.195	0.187	0.189	0.007	0.807	S
C2		0.126	0.122	0.124	0.009	0.235	S
C3		0.26	0.248	0.249	0.012	0.939	S
C4		0.162	0.154	0.155	0.007	1.071	S

\* Z score is unitless

<sup>‡</sup> 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://emep-ccc.nilu.no/intercomparison>

## EMEP – 42<sup>nd</sup> intercomparison of analytical methods - 2024

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 <sup>‡</sup>
C1	NO <sub>2</sub> <i>µg N/ml</i>	0.206	0.187	0.189	0.007	2.378	Q
C2		0.142	0.122	0.124	0.009	2.033	Q
C3		0.269	0.248	0.249	0.012	1.72	S
C4		0.168	0.154	0.155	0.007	1.987	S

\* Z score is unitless

<sup>‡</sup> 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://emep-ccc.nilu.no/intercomparison>

## EMEP – 42<sup>nd</sup> intercomparison of analytical methods - 2024

### 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 <sup>‡</sup>
C1	NO <sub>2</sub> <i>µg N/ml</i>	0.174	0.187	0.189	0.007	-2.138	S
C2		0.111	0.122	0.124	0.009	-1.472	S
C3		0.236	0.248	0.249	0.012	-1.056	S
C4		0.142	0.154	0.155	0.007	-1.932	S

\* Z score is unitless

<sup>‡</sup> 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://emep-ccc.nilu.no/intercomparison>

## EMEP – 42<sup>nd</sup> intercomparison of analytical methods - 2024

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 <sup>†</sup>
C1	NO <sub>2</sub>	0.182	0.187	0.189	0.007	-1.058	S
C2		0.113	0.122	0.124	0.009	-1.245	S
C3	µg N/ml	0.233	0.248	0.249	0.012	-1.272	S
C4		0.142	0.154	0.155	0.007	-1.947	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://emep-ccc.nilu.no/intercomparison>

## EMEP – 42<sup>nd</sup> intercomparison of analytical methods - 2024

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 <sup>†</sup>
C1	NO <sub>2</sub>	0.19	0.187	0.189	0.007	0.106	S
C2		0.124	0.122	0.124	0.009	0.007	S
C3	µg N/ml	0.242	0.248	0.249	0.012	-0.557	S
C4		0.148	0.154	0.155	0.007	-1.031	S

\* Z score is unitless

<sup>†</sup> 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://emep-ccc.nilu.no/intercomparison>

## EMEP – 42<sup>nd</sup> intercomparison of analytical methods - 2024

Laboratory 178, Laboratory of Hydrochemistry and Atmospheric Chemistry and  
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 <sup>†</sup>
C1	NO <sub>2</sub>	0.182	0.187	0.189	0.007	-1.016	S
C2		0.071	0.122	0.124	0.009	-6.024	U
C3	µg N/ml	0.23	0.248	0.249	0.012	-1.554	S
C4		0.151	0.154	0.155	0.007	-0.58	S

\* Z score is unitless

<sup>†</sup> 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://emep-ccc.nilu.no/intercomparison>

## EMEP – 42<sup>nd</sup> intercomparison of analytical methods - 2024

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 <sup>‡</sup>
C1	NO <sub>2</sub> <i>µg N/ml</i>	0.194	0.187	0.189	0.007	0.625	S
C2		0.123	0.122	0.124	0.009	-0.141	S
C3		0.262	0.248	0.249	0.012	1.105	S
C4		0.154	0.154	0.155	0.007	-0.145	S

\* Z score is unitless

<sup>‡</sup> 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://emep-ccc.nilu.no/intercomparison>

## EMEP – 42<sup>nd</sup> intercomparison of analytical methods - 2024

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 <sup>‡</sup>
C1	NO <sub>2</sub> <i>µg N/ml</i>	0.193	0.187	0.189	0.007	0.527	S
C2		0.122	0.122	0.124	0.009	-0.22	S
C3		0.256	0.248	0.249	0.012	0.607	S
C4		0.156	0.154	0.155	0.007	0.17	S

\* Z score is unitless

<sup>‡</sup> 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://emep-ccc.nilu.no/intercomparison>



## EMEP – 42<sup>nd</sup> intercomparison of analytical methods - 2024

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 <sup>†</sup>
C1	NO <sub>2</sub>	0.187	0.187	0.189	0.007	-0.315	S
C2		0.121	0.122	0.124	0.009	-0.334	S
C3	µg N/ml	0.262	0.248	0.249	0.012	1.105	S
C4		0.154	0.154	0.155	0.007	-0.13	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://emep-ccc.nilu.no/intercomparison>

## EMEP – 42<sup>nd</sup> intercomparison of analytical methods - 2024

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 <sup>†</sup>
C1	NO <sub>2</sub> <i>µg N/ml</i>	0.194	0.187	0.189	0.007	0.667	S
C2		0.125	0.122	0.124	0.009	0.121	S
C3		0.257	0.248	0.249	0.012	0.69	S
C4		0.161	0.154	0.155	0.007	0.921	S

\* Z score is unitless

<sup>†</sup> 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://emep-ccc.nilu.no/intercomparison>

## EMEP – 42<sup>nd</sup> intercomparison of analytical methods - 2024

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 <sup>‡</sup>
C1	NO <sub>2</sub> <i>µg N/ml</i>	0.185	0.187	0.189	0.007	-0.595	S
C2		0.118	0.122	0.124	0.009	-0.676	S
C3		0.248	0.248	0.249	0.012	-0.058	S
C4		0.16	0.154	0.155	0.007	0.771	S

\* Z score is unitless

<sup>‡</sup> 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://emep-ccc.nilu.no/intercomparison>

## EMEP – 42<sup>nd</sup> intercomparison of analytical methods - 2024

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 <sup>‡</sup>
C1	NO <sub>2</sub> <i>µg N/ml</i>	0.19	0.187	0.189	0.007	0.106	S
C2		0.123	0.122	0.124	0.009	-0.107	S
C3		0.258	0.248	0.249	0.012	0.773	S
C4		0.158	0.154	0.155	0.007	0.471	S

\* Z score is unitless

<sup>‡</sup> 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://emep-ccc.nilu.no/intercomparison>

## EMEP – 42<sup>nd</sup> intercomparison of analytical methods - 2024

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 <sup>‡</sup>
C1	NO <sub>2</sub> <i>µg N/ml</i>	0.195	0.187	0.189	0.007	0.807	S
C2		0.129	0.122	0.124	0.009	0.576	S
C3		0.256	0.248	0.249	0.012	0.607	S
C4		0.164	0.154	0.155	0.007	1.371	S

\* Z score is unitless

<sup>‡</sup> 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://emep-ccc.nilu.no/intercomparison>

## EMEP – 42<sup>nd</sup> intercomparison of analytical methods - 2024

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 <sup>†</sup>
C1	NO <sub>2</sub> <i>µg N/ml</i>	0.19	0.187	0.189	0.007	0.106	S
C2		0.122	0.122	0.124	0.009	-0.22	S
C3		0.254	0.248	0.249	0.012	0.441	S
C4		0.155	0.154	0.155	0.007	0.02	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://emep-ccc.nilu.no/intercomparison>

## EMEP – 42<sup>nd</sup> intercomparison of analytical methods - 2024

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 <sup>‡</sup>
C1	NO <sub>2</sub> <i>µg N/ml</i>	0.188	0.187	0.189	0.007	-0.174	S
C2		0.122	0.122	0.124	0.009	-0.22	S
C3		0.248	0.248	0.249	0.012	-0.058	S
C4		0.154	0.154	0.155	0.007	-0.13	S

\* Z score is unitless

<sup>‡</sup> 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://emep-ccc.nilu.no/intercomparison>

## EMEP – 42<sup>nd</sup> intercomparison of analytical methods - 2024

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 <sup>‡</sup>
C1	NO <sub>2</sub> <i>µg N/ml</i>	0.208	0.187	0.189	0.007	2.63	Q
C2		0.144	0.122	0.124	0.009	2.283	Q
C3		0.279	0.248	0.249	0.012	2.518	Q
C4		0.178	0.154	0.155	0.007	3.473	Q

\* Z score is unitless

<sup>‡</sup> 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://emep-ccc.nilu.no/intercomparison>



## EMEP – 42<sup>nd</sup> intercomparison of analytical methods - 2024

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 <sub>2</sub>	0.195	0.187	0.189	0.007	0.807	S
C2		0.127	0.122	0.124	0.009	0.348	S
C3	µg N/ml	0.257	0.248	0.249	0.012	0.69	S
C4		0.16	0.154	0.155	0.007	0.771	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://emep-ccc.nilu.no/intercomparison>