

EMEP – 35th intercomparison of analytical methods

Laboratory 10, Institute for Atmospheric Physics (Hungary)

Sulphur dioxide in absorbing solution (A-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
A1	SO ₂	0.178	0.188	0.181	0.016	-0.186	S
A2		0.16	0.172	0.17	0.028	-0.377	S
A4	µg S/ml	0.062	0.076	0.073	0.006	-1.786	S
A5		0.054	0.068	0.067	0.008	-1.476	S

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Corrections are done by subtracting the blank value when a value was reported, or 1/2 MDL when MDL was reported.

* z score is unitless

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S – Satisfactory: Your result deviates less than ±10% of the expected value for samples A1 and A2 and less than ±20% for samples A4 and A5.

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U – Unsatisfactory: Your result deviates more than ±20% of the expected value for samples A1 and A2 and more than ±40% for samples A4 and A5.

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 – 35th intercomparison of analytical methods

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

Sulphur dioxide in absorbing solution (A-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
A1	SO ₂	0.188	0.188	0.181	0.016	0.42	S
A2		0.175	0.172	0.17	0.028	0.183	S
A4	µg S/ml	0.073	0.076	0.073	0.006	0.039	S
A5		0.082	0.068	0.067	0.008	1.906	Q

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EMEP – 35th intercomparison of analytical methods

Laboratory 19, Centro Nacional de Sanidad Ambiental (Spain)

Sulphur dioxide in absorbing solution (A-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
A1	SO ₂	0.13	0.188	0.181	0.016	-3.28	U
A2		0.11	0.172	0.17	0.028	-2.163	U
A4	µg S/ml	< 0.100	0.076	0.073	0.006		B
A5		< 0.100	0.068	0.067	0.008		B

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

Sulphur dioxide in absorbing solution (A-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
A1	SO ₂	0.18	0.188	0.181	0.016	-0.09	S
A2		0.166	0.172	0.17	0.028	-0.142	S
A4	µg S/ml	0.074	0.076	0.073	0.006	0.212	S
A5		0.066	0.068	0.067	0.008	-0.061	S

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Laboratory 34, Ministry of Environment and Urbanisation (Turkey)

Sulphur dioxide in absorbing solution (A-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
A1	SO ₂	0.176	0.188	0.181	0.016	-0.345	S
A2		0.158	0.172	0.17	0.028	-0.431	S
A4	µg S/ml	0.069	0.076	0.073	0.006	-0.656	S
A5		0.073	0.068	0.067	0.008	0.799	S

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Laboratory 178, Environmental Chemistry and EANET Monitoring Laboratory, Limnological Institute RAS/SB, Irkutsk (Russian Federation)

Sulphur dioxide in absorbing solution (A-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
A1	SO ₂	0.184	0.188	0.181	0.016	0.165	S
A2		0.167	0.172	0.17	0.028	-0.106	S
A4	µg S/ml	0.081	0.076	0.073	0.006	1.428	S
A5		0.062	0.068	0.067	0.008	-0.553	S

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

Sulphur dioxide in absorbing solution (A-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
A1	SO ₂	0.184	0.188	0.181	0.016	0.197	S
A2		0.165	0.172	0.17	0.028	-0.196	S
A4	µg S/ml	0.069	0.076	0.073	0.006	-0.743	S
A5		0.059	0.068	0.067	0.008	-0.861	S

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EMEP – 35th intercomparison of analytical methods

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

Sulphur dioxide in absorbing solution (A-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
A1	SO ₂	0.19	0.188	0.181	0.016	0.548	S
A2		0.168	0.172	0.17	0.028	-0.07	S
A4	µg S/ml	< 0.100	0.076	0.073	0.006		B
A5		< 0.100	0.068	0.067	0.008		B

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

Sulphur dioxide in absorbing solution (A-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
A1	SO ₂	0.192	0.188	0.181	0.016	0.675	S
A2		0.169	0.172	0.17	0.028	-0.034	S
A4	µg S/ml	< 0.100	0.076	0.073	0.006		B
A5		< 0.100	0.068	0.067	0.008		B

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EMEP – 35th intercomparison of analytical methods

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

Sulphur dioxide in absorbing solution (A-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
A1	SO ₂	0.186	0.188	0.181	0.016	0.293	S
A2		0.168	0.172	0.17	0.028	-0.07	S
A4	µg S/ml	0.072	0.076	0.073	0.006	-0.135	S
A5		0.06	0.068	0.067	0.008	-0.799	S

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

Sulphur dioxide in absorbing solution (A-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
A1	SO ₂	0.194	0.188	0.181	0.016	0.803	S
A2		0.185	0.172	0.17	0.028	0.543	S
A4	µg S/ml	0.095	0.076	0.073	0.006	3.861	Q
A5		0.073	0.068	0.067	0.008	0.799	S

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EMEP – 35th intercomparison of analytical methods

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

Sulphur dioxide in absorbing solution (A-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
A1	SO ₂	0.182	0.188	0.181	0.016	0.025	S
A2		0.246	0.172	0.17	0.028	2.752	U
A4	µg S/ml	< 0.167	0.076	0.073	0.006		B
A5		< 0.167	0.068	0.067	0.008		B

¥ Reported values are blank corrected, unless you informed us that this has already been done.

Corrections are done by subtracting the blank value when a value was reported, or 1/2 MDL when MDL was reported.

* z score is unitless

¤ EMEP quality norm; the letters in the column indicates:

S – Satisfactory: Your result deviates less than ±10% of the expected value for samples A1 and A2 and less than ±20% for samples A4 and A5.

Q – Questionable: Your result deviates between ±10-20% of the expected value for samples A1 and A2 and between ±20-40% for samples A4 and A5.

U – Unsatisfactory: Your result deviates more than ±20% of the expected value for samples A1 and A2 and more than ±40% for samples A4 and A5.

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 – 35th intercomparison of analytical methods

Laboratory 196, Institute of Public Health Leskovac (Republic of Serbia)

Sulphur dioxide in absorbing solution (A-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
A1	SO ₂	0.19	0.188	0.181	0.016	0.548	S
A2		0.171	0.172	0.17	0.028	0.038	S
A4	µg S/ml	0.08	0.076	0.073	0.006	1.255	S
A5		0.07	0.068	0.067	0.008	0.43	S

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EMEP – 35th intercomparison of analytical methods

Laboratory 203, The Public Health Institute Vranje (Republic of Serbia)

Sulphur dioxide in absorbing solution (A-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
A1	SO ₂	0.185	0.188	0.181	0.016	0.229	S
A2		0.172	0.172	0.17	0.028	0.074	S
A4	µg S/ml	0.075	0.076	0.073	0.006	0.386	S
A5		0.065	0.068	0.067	0.008	-0.184	S

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EMEP – 35th intercomparison of analytical methods

Laboratory 204, Institute for Public Health "Pomoravlje" Cuprija (Republic of Serbia)

Sulphur dioxide in absorbing solution (A-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
A1	SO ₂	0.326	0.188	0.181	0.016	9.223	U
A2		0.298	0.172	0.17	0.028	4.622	U
A4	µg S/ml	< 0.200	0.076	0.073	0.006		B
A5		< 0.200	0.068	0.067	0.008		B

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