

EMEP – 36th 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 <i>µg S/ml</i>	0.164	0.16	0.132	0.051	0.637	S
A2		0.281	0.281	0.246	0.091	0.382	S
A3		0.323	0.321	0.312	0.034	0.337	S
A4		0.407	0.401	0.366	0.052	0.779	S

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* z score is unitless

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

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

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

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

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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 <i>µg S/ml</i>	0.162	0.16	0.132	0.051	0.588	S
A2		0.281	0.281	0.246	0.091	0.377	S
A3		0.319	0.321	0.312	0.034	0.203	S
A4		0.395	0.401	0.366	0.052	0.541	S

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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 <i>µg S/ml</i>	0.08	0.16	0.132	0.051	-1.02	U
A2		0.19	0.281	0.246	0.091	-0.62	U
A3		0.25	0.321	0.312	0.034	-1.834	U
A4		0.3	0.401	0.366	0.052	-1.263	U

[‡] 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.

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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 <i>µg S/ml</i>	0.04	0.16	0.132	0.051	-1.81	U
A2		0.07	0.281	0.246	0.091	-1.94	U
A3		0.08	0.321	0.312	0.034	-6.891	U
A4		0.1	0.401	0.366	0.052	-5.081	U

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EMEP – 36th intercomparison of analytical methods

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 <i>µg S/ml</i>	0.152	0.16	0.132	0.051	0.41	S
A2		0.271	0.281	0.246	0.091	0.267	S
A3		0.304	0.321	0.312	0.034	-0.213	S
A4		0.392	0.401	0.366	0.052	0.484	S

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EMEP – 36th intercomparison of analytical methods

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 <i>µg S/ml</i>	0.17	0.16	0.132	0.051	0.755	S
A2		0.28	0.281	0.246	0.091	0.371	S
A3		0.35	0.321	0.312	0.034	1.14	S
A4		0.406	0.401	0.366	0.052	0.76	S

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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 <i>µg S/ml</i>	0.154	0.16	0.132	0.051	0.44	S
A2		0.352	0.281	0.246	0.091	1.164	U
A3		0.324	0.321	0.312	0.034	0.367	S
A4		0.298	0.401	0.366	0.052	-1.301	U

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