

EMEP – 35th intercomparison of analytical methods

Laboratory 3, Czech Hydrometeorological Institute, Praha (Czech Republic)

Sulphur dioxide and nitric acid on impregnated filters (B-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
B1	SO ₂ <i>µg S/filter</i>	107.25	100.2	101.226	6.781	0.888	S
B2		66.05	60.11	59.812	3.051	2.044	S
B5		64.05	56.11	56.532	3.757	2.001	S
B6		109.25	100.2	100.157	5.055	1.799	S
B1	HNO ₃ <i>µg N/filter</i>	44.68	40.9	42.541	2.685	0.797	S
B2		24.08	24.54	24.73	1.416	-0.459	S
B5		23.48	22.9	23.452	1.305	0.022	S
B6		44.68	40.9	41.788	2.096	1.38	S

¥ Reported values are blank corrected. Corrections are done by subtracting the blank value when a value was reported or 1/2MDL when MDL was reported.

* Z score is unitless

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

S – Satisfactory: Your result deviates less than ±20% of the expected value for SO₂ and HNO₃

Q – Questionable: Your result deviates between ±20-40% of the expected value for SO₂ and HNO₃

U – Unsatisfactory: Your result deviates more than ±40% of the expected value for SO₂ and for HNO₃

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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Laboratory 4, Aarhus University, Department of Environmental Science (Denmark)

Sulphur dioxide and nitric acid on impregnated filters (B-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
B1	SO ₂ <i>µg S/filter</i>	98.24	100.2	101.226	6.781	-0.44	S
B2		56.59	60.11	59.812	3.051	-1.056	S
B5		53.35	56.11	56.532	3.757	-0.847	S
B6		95.07	100.2	100.157	5.055	-1.006	S
B1	HNO ₃ <i>µg N/filter</i>	38.9	40.9	42.541	2.685	-1.356	S
B2		22.89	24.54	24.73	1.416	-1.3	S
B5		21.4	22.9	23.452	1.305	-1.572	S
B6		39.53	40.9	41.788	2.096	-1.077	S

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Laboratory 5, Finnish Meteorological Institute. Air Quality Department (Finland)

Sulphur dioxide and nitric acid on impregnated filters (B-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
B1	SO ₂ <i>µg S/filter</i>	98.521	100.2	101.226	6.781	-0.399	S
B2		61.332	60.11	59.812	3.051	0.498	S
B5		56.369	56.11	56.532	3.757	-0.043	S
B6		103.083	100.2	100.157	5.055	0.579	S
B1	HNO ₃ <i>µg N/filter</i>	41.212	40.9	42.541	2.685	-0.495	S
B2		24.996	24.54	24.73	1.416	0.188	S
B5		23.087	22.9	23.452	1.305	-0.28	S
B6		42.229	40.9	41.788	2.096	0.211	S

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Laboratory 6, SGS Multilab (France)

Sulphur dioxide and nitric acid on impregnated filters (B-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
B1	SO ₂ <i>µg S/filter</i>	96.72	100.2	101.226	6.781	-0.664	S
B2		56.4	60.11	59.812	3.051	-1.118	S
B5		51.64	56.11	56.532	3.757	-1.302	S
B6		95.6	100.2	100.157	5.055	-0.901	S
B1	HNO ₃ <i>µg N/filter</i>	40.74	40.9	42.541	2.685	-0.671	S
B2		23.76	24.54	24.73	1.416	-0.685	S
B5		22.1	22.9	23.452	1.305	-1.036	S
B6		40.56	40.9	41.788	2.096	-0.586	S

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Laboratory 8, Umweltbundesamt, Langen (Germany)

Sulphur dioxide and nitric acid on impregnated filters (B-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
B1	SO ₂ <i>µg S/filter</i>	104.65	100.2	101.226	6.781	0.505	S
B2		61.45	60.11	59.812	3.051	0.537	S
B5		57.65	56.11	56.532	3.757	0.298	S
B6		100.15	100.2	100.157	5.055	-0.001	S
B1	HNO ₃ <i>µg N/filter</i>	42.2	40.9	42.541	2.685	-0.127	S
B2		24.4	24.54	24.73	1.416	-0.233	S
B5		24.4	22.9	23.452	1.305	0.726	S
B6		42.5	40.9	41.788	2.096	0.34	S

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U – Unsatisfactory: Your result deviates more than ±40% of the expected value for SO₂ and for HNO₃

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Laboratory 10, Institute for Atmospheric Physics (Hungary)

Sulphur dioxide and nitric acid on impregnated filters (B-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
B1	SO ₂ <i>µg S/filter</i>	88.615	100.2	101.226	6.781	-1.86	S
B2		61.906	60.11	59.812	3.051	0.686	S
B5		58.467	56.11	56.532	3.757	0.515	S
B6		99.712	100.2	100.157	5.055	-0.088	S
B1	HNO ₃ <i>µg N/filter</i>	49.087	40.9	42.541	2.685	2.438	Q
B2		28.521	24.54	24.73	1.416	2.678	S
B5		26.056	22.9	23.452	1.305	1.995	S
B6		54.372	40.9	41.788	2.096	6.004	Q

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

Sulphur dioxide and nitric acid on impregnated filters (B-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
B1	SO ₂ <i>µg S/filter</i>	119.8	100.2	101.226	6.781	2.739	S
B2		62.2	60.11	59.812	3.051	0.783	S
B5		63.1	56.11	56.532	3.757	1.748	S
B6		123.4	100.2	100.157	5.055	4.598	Q
B1	HNO ₃ <i>µg N/filter</i>	46.3	40.9	42.541	2.685	1.4	S
B2		24.8	24.54	24.73	1.416	0.049	S
B5		32	22.9	23.452	1.305	6.548	Q
B6		45.8	40.9	41.788	2.096	1.914	S

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Laboratory 16, Institute of Meteorology and Water Management, Warsaw (Poland)

Sulphur dioxide and nitric acid on impregnated filters (B-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
B1	SO ₂ <i>µg S/filter</i>	103.28	100.2	101.226	6.781	0.303	S
B2		57.79	60.11	59.812	3.051	-0.663	S
B5		54.61	56.11	56.532	3.757	-0.511	S
B6		100.98	100.2	100.157	5.055	0.163	S
B1	HNO ₃ <i>µg N/filter</i>	43.01	40.9	42.541	2.685	0.175	S
B2		24.49	24.54	24.73	1.416	-0.17	S
B5		23.23	22.9	23.452	1.305	-0.17	S
B6		41.94	40.9	41.788	2.096	0.073	S

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

Sulphur dioxide and nitric acid on impregnated filters (B-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
B1	SO ₂ <i>µg S/filter</i>	103.9	100.2	101.226	6.781	0.394	S
B2		58.6	60.11	59.812	3.051	-0.397	S
B5		56.2	56.11	56.532	3.757	-0.088	S
B6		100.9	100.2	100.157	5.055	0.147	S
B1	HNO ₃ <i>µg N/filter</i>	40	40.9	42.541	2.685	-0.946	S
B2		23.4	24.54	24.73	1.416	-0.94	S
B5		22.6	22.9	23.452	1.305	-0.653	S
B6		38.8	40.9	41.788	2.096	-1.425	S

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

Sulphur dioxide and nitric acid on impregnated filters (B-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
B1	SO ₂ <i>µg S/filter</i>	65.515	100.2	101.226	6.781	-5.266	Q
B2		35.285	60.11	59.812	3.051	-8.038	U
B5		33.115	56.11	56.532	3.757	-6.232	U
B6		67.645	100.2	100.157	5.055	-6.431	Q
B1	HNO ₃ <i>µg N/filter</i>	17.975	40.9	42.541	2.685	-9.15	U
B2		9.975	24.54	24.73	1.416	-10.423	U
B5		9.685	22.9	23.452	1.305	-10.546	U
B6		18.815	40.9	41.788	2.096	-10.96	U

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EMEP – 35th intercomparison of analytical methods

Laboratory 31, Slovak Hydrometeorological Institute (Slovakia)

Sulphur dioxide and nitric acid on impregnated filters (B-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
B1	SO ₂ <i>µg S/filter</i>	99.032	100.2	101.226	6.781	-0.323	S
B2		62.778	60.11	59.812	3.051	0.972	S
B5		57.08	56.11	56.532	3.757	0.146	S
B6		95.987	100.2	100.157	5.055	-0.825	S
B1	HNO ₃ <i>µg N/filter</i>	46.932	40.9	42.541	2.685	1.635	S
B2		27.5	24.54	24.73	1.416	1.956	S
B5		25.608	22.9	23.452	1.305	1.652	S
B6		45.199	40.9	41.788	2.096	1.628	S

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* Z score is unitless

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S – Satisfactory: Your result deviates less than ±20% of the expected value for SO₂ and HNO₃

Q – Questionable: Your result deviates between ±20-40% of the expected value for SO₂ and HNO₃

U – Unsatisfactory: Your result deviates more than ±40% of the expected value for SO₂ and for HNO₃

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EMEP – 35th intercomparison of analytical methods

Laboratory 32, Atmospheric Pollution Research Laboratory, Institute of Physics, Vilnius (Lithuania)

Sulphur dioxide and nitric acid on impregnated filters (B-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
B1	SO ₂ <i>µg S/filter</i>	99.905	100.2	101.226	6.781	-0.195	S
B2		57.215	60.11	59.812	3.051	-0.851	S
B5		53.415	56.11	56.532	3.757	-0.829	S
B6		98.415	100.2	100.157	5.055	-0.345	S
B1	HNO ₃ <i>µg N/filter</i>	40.865	40.9	42.541	2.685	-0.624	S
B2		23.325	24.54	24.73	1.416	-0.993	S
B5		23.235	22.9	23.452	1.305	-0.166	S
B6		39.595	40.9	41.788	2.096	-1.046	S

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EMEP – 35th intercomparison of analytical methods

Laboratory 33, Environmental Pollution Observ. Centre (Latvia)

Sulphur dioxide and nitric acid on impregnated filters (B-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
B1	SO ₂ <i>µg S/filter</i>	91.44	100.2	101.226	6.781	-1.443	S
B2		53.84	60.11	59.812	3.051	-1.957	S
B5		51.16	56.11	56.532	3.757	-1.43	S
B6		90.42	100.2	100.157	5.055	-1.926	S
B1	HNO ₃ <i>µg N/filter</i>	39.98	40.9	42.541	2.685	-0.954	S
B2		23.89	24.54	24.73	1.416	-0.594	S
B5		22.41	22.9	23.452	1.305	-0.798	S
B6		39.29	40.9	41.788	2.096	-1.192	S

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U – Unsatisfactory: Your result deviates more than ±40% of the expected value for SO₂ and for HNO₃

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EMEP – 35th intercomparison of analytical methods

Laboratory 34, Ministry of Environment and Urbanisation (Turkey)

Sulphur dioxide and nitric acid on impregnated filters (B-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
B1	SO ₂ <i>µg S/filter</i>	107.781	100.2	101.226	6.781	0.967	S
B2		64.568	60.11	59.812	3.051	1.559	S
B5		63.765	56.11	56.532	3.757	1.925	S
B6		111.169	100.2	100.157	5.055	2.178	S
B1	HNO ₃ <i>µg N/filter</i>	44.05	40.9	42.541	2.685	0.562	S
B2		26.349	24.54	24.73	1.416	1.143	S
B5		25.892	22.9	23.452	1.305	1.869	S
B6		43.787	40.9	41.788	2.096	0.954	S

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U – Unsatisfactory: Your result deviates more than ±40% of the expected value for SO₂ and for HNO₃

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Laboratory 36, Hydrometeorological Institute of Slovenia (Slovenia)

Sulphur dioxide and nitric acid on impregnated filters (B-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
B1	SO ₂ <i>µg S/filter</i>	100.955	100.2	101.226	6.781	-0.04	S
B2		59.055	60.11	59.812	3.051	-0.248	S
B5		55.955	56.11	56.532	3.757	-0.153	S
B6		100.955	100.2	100.157	5.055	0.158	S
B1	HNO ₃ <i>µg N/filter</i>	42.09	40.9	42.541	2.685	-0.168	S
B2		24.69	24.54	24.73	1.416	-0.028	S
B5		23.29	22.9	23.452	1.305	-0.124	S
B6		41.79	40.9	41.788	2.096	0.001	S

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EMEP – 35th intercomparison of analytical methods

Laboratory 38, Estonian Environmental Research Centre, Tallinn (Estonia)

Sulphur dioxide and nitric acid on impregnated filters (B-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
B1	SO ₂ <i>µg S/filter</i>	104.795	100.2	101.226	6.781	0.526	S
B2		60.495	60.11	59.812	3.051	0.224	S
B5		53.835	56.11	56.532	3.757	-0.718	S
B6		99.905	100.2	100.157	5.055	-0.05	S
B1	HNO ₃ <i>µg N/filter</i>	41.145	40.9	42.541	2.685	-0.52	S
B2		24.436	24.54	24.73	1.416	-0.208	S
B5		22.445	22.9	23.452	1.305	-0.771	S
B6		40.505	40.9	41.788	2.096	-0.612	S

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EMEP – 35th intercomparison of analytical methods

Laboratory 39, Environmental Monitoring Laboratory, Institute of Environmental Protection (Poland)

Sulphur dioxide and nitric acid on impregnated filters (B-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
B1	SO ₂ <i>µg S/filter</i>	99.2	100.2	101.226	6.781	-0.299	S
B2		57.22	60.11	59.812	3.051	-0.85	S
B5		53.81	56.11	56.532	3.757	-0.724	S
B6		99.29	100.2	100.157	5.055	-0.172	S
B1	HNO ₃ <i>µg N/filter</i>	40.92	40.9	42.541	2.685	-0.604	S
B2		24.12	24.54	24.73	1.416	-0.431	S
B5		22.68	22.9	23.452	1.305	-0.591	S
B6		40.22	40.9	41.788	2.096	-0.748	S

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EMEP – 35th intercomparison of analytical methods

Laboratory 158, Asia Center for Air Pollution Research (ACAP) (Japan)

Sulphur dioxide and nitric acid on impregnated filters (B-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
B1	SO ₂ <i>µg S/filter</i>	93.505	100.2	101.226	6.781	-1.139	S
B2		58.065	60.11	59.812	3.051	-0.573	S
B5		54.705	56.11	56.532	3.757	-0.486	S
B6		94.905	100.2	100.157	5.055	-1.039	S
B1	HNO ₃ <i>µg N/filter</i>	40.515	40.9	42.541	2.685	-0.755	S
B2		24.265	24.54	24.73	1.416	-0.329	S
B5		22.945	22.9	23.452	1.305	-0.388	S
B6		40.695	40.9	41.788	2.096	-0.521	S

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

Sulphur dioxide and nitric acid on impregnated filters (B-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
B1	SO ₂ <i>µg S/filter</i>	103.45	100.2	101.226	6.781	0.328	S
B2		60.98	60.11	59.812	3.051	0.383	S
B5		57.84	56.11	56.532	3.757	0.348	S
B6		105.39	100.2	100.157	5.055	1.035	S
B1	HNO ₃ <i>µg N/filter</i>	44.085	40.9	42.541	2.685	0.575	S
B2		25.745	24.54	24.73	1.416	0.717	S
B5		24.205	22.9	23.452	1.305	0.577	S
B6		43.195	40.9	41.788	2.096	0.672	S

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EMEP – 35th intercomparison of analytical methods

Laboratory 200, FUB AG (Switzerland)

Sulphur dioxide and nitric acid on impregnated filters (B-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
B1	SO ₂ <i>µg S/filter</i>	102.25	100.2	101.226	6.781	0.151	S
B2		59.9	60.11	59.812	3.051	0.029	S
B5		57.1	56.11	56.532	3.757	0.151	S
B6		101.65	100.2	100.157	5.055	0.295	S
B1	HNO ₃ <i>µg N/filter</i>	41.57	40.9	42.541	2.685	-0.362	S
B2		24.22	24.54	24.73	1.416	-0.361	S
B5		23.07	22.9	23.452	1.305	-0.293	S
B6		41.86	40.9	41.788	2.096	0.035	S

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S – Satisfactory: Your result deviates less than ±20% of the expected value for SO₂ and HNO₃

Q – Questionable: Your result deviates between ±20-40% of the expected value for SO₂ and HNO₃

U – Unsatisfactory: Your result deviates more than ±40% of the expected value for SO₂ and for HNO₃

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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