

EMEP – 36th intercomparison of analytical methods

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

Ammonia on impregnated filters (J-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
J1	NH ₃ <i>µg N/filter</i>	14.9	15.3	15.451	1.439	-0.383	S
J2		11.66	12.5	12.402	1.435	-0.517	S
J3		19.56	20.5	20.326	1.345	-0.57	S
J6		31.67	30.5	30.094	1.381	1.141	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

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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 – 36th intercomparison of analytical methods

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

Ammonia on impregnated filters (J-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
J1	NH ₃ <i>µg N/filter</i>	13.91	15.3	15.451	1.439	-1.071	S
J2		11.28	12.5	12.402	1.435	-0.781	S
J3		18.25	20.5	20.326	1.345	-1.544	S
J6		28.35	30.5	30.094	1.381	-1.263	S

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

Ammonia on impregnated filters (J-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
J1	NH ₃ <i>µg N/filter</i>	14.321	15.3	15.451	1.439	-0.785	S
J2		11.791	12.5	12.402	1.435	-0.425	S
J3		19.621	20.5	20.326	1.345	-0.524	S
J6		28.776	30.5	30.094	1.381	-0.955	S

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Laboratory 6, SGS Multilab (France)

Ammonia on impregnated filters (J-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
J1	NH ₃ <i>µg N/filter</i>	16.87	15.3	15.451	1.439	0.986	S
J2		14.89	12.5	12.402	1.435	1.734	S
J3		31.43	20.5	20.326	1.345	8.255	U
J6		30.81	30.5	30.094	1.381	0.519	S

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Laboratory 8, Umweltbundesamt, Langen (Germany)

Ammonia on impregnated filters (J-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
J1	NH ₃ <i>µg N/filter</i>	16.5	15.3	15.451	1.439	0.729	S
J2		13.1	12.5	12.402	1.435	0.487	S
J3		21.8	20.5	20.326	1.345	1.096	S
J6		31.2	30.5	30.094	1.381	0.801	S

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Laboratory 10, Institute for Atmospheric Physics (Hungary)

Ammonia on impregnated filters (J-samples)

Sample name	Determinand	Reported value [‡]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [‡]
J1	NH ₃ <i>µg N/filter</i>	13.776	15.3	15.451	1.439	-1.164	S
J2		10.623	12.5	12.402	1.435	-1.239	S
J3		19.624	20.5	20.326	1.345	-0.522	S
J6		30.296	30.5	30.094	1.381	0.146	S

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

Ammonia on impregnated filters (J-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
J1	NH ₃ <i>µg N/filter</i>	14.68	15.3	15.451	1.439	-0.536	S
J2		12.08	12.5	12.402	1.435	-0.224	S
J3		20.48	20.5	20.326	1.345	0.114	S
J6		31.12	30.5	30.094	1.381	0.743	S

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

Ammonia on impregnated filters (J-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
J1	NH ₃ <i>µg N/filter</i>	14.61	15.3	15.451	1.439	-0.584	S
J2		12.74	12.5	12.402	1.435	0.236	S
J3		20.16	20.5	20.326	1.345	-0.124	S
J6		30.55	30.5	30.094	1.381	0.33	S

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Laboratory 19, Centro Nacional de Sanidad Ambiental (Spain)

Ammonia on impregnated filters (J-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
J1	NH ₃ <i>µg N/filter</i>	16.941	15.3	15.451	1.439	1.035	S
J2		14.999	12.5	12.402	1.435	1.81	S
J3		21.998	20.5	20.326	1.345	1.243	S
J6		30.089	30.5	30.094	1.381	-0.004	S

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

Ammonia on impregnated filters (J-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
J1	NH ₃ <i>µg N/filter</i>	15.569	15.3	15.451	1.439	0.082	S
J2		12.527	12.5	12.402	1.435	0.087	S
J3		20.662	20.5	20.326	1.345	0.249	S
J6		29.558	30.5	30.094	1.381	-0.388	S

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Laboratory 31, Slovak Hydrometeorological Institute (Slovakia)

Ammonia on impregnated filters (J-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
J1	NH ₃ <i>µg N/filter</i>	16.69	15.3	15.451	1.439	0.861	S
J2		14.22	12.5	12.402	1.435	1.267	S
J3		22.13	20.5	20.326	1.345	1.341	S
J6		31.96	30.5	30.094	1.381	1.351	S

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

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Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
J1	NH ₃ <i>µg N/filter</i>	15.77	15.3	15.451	1.439	0.222	S
J2		13.02	12.5	12.402	1.435	0.431	S
J3		20.89	20.5	20.326	1.345	0.419	S
J6		29.05	30.5	30.094	1.381	-0.756	S

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EMEP – 36th intercomparison of analytical methods

Laboratory 33, Environmental Pollution Observ. Centre (Latvia)

Ammonia on impregnated filters (J-samples)

Sample name	Determinand	Reported value [‡]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [‡]
J1	NH ₃ <i>µg N/filter</i>	14.556	15.3	15.451	1.439	-0.622	S
J2		12.126	12.5	12.402	1.435	-0.192	S
J3		20.781	20.5	20.326	1.345	0.338	S
J6		31.089	30.5	30.094	1.381	0.721	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:

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EMEP – 36th intercomparison of analytical methods

Laboratory 34, Ministry of Environment and Urbanisation (Turkey)

Ammonia on impregnated filters (J-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
J1	NH ₃ <i>µg N/filter</i>	0.66	15.3	15.451	1.439	-10.277	U
J2		0.459	12.5	12.402	1.435	-8.32	U
J3		0.642	20.5	20.326	1.345	-14.635	U
J6		1.12	30.5	30.094	1.381	-20.984	U

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EMEP – 36th intercomparison of analytical methods

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

Ammonia on impregnated filters (J-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
J1	NH ₃ <i>µg N/filter</i>	17.262	15.3	15.451	1.439	1.259	S
J2		13.473	12.5	12.402	1.435	0.746	S
J3		22.742	20.5	20.326	1.345	1.796	S
J6		32.392	30.5	30.094	1.381	1.665	S

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EMEP – 36th intercomparison of analytical methods

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

Ammonia on impregnated filters (J-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
J1	NH ₃ <i>µg N/filter</i>	13.05	15.3	15.451	1.439	-1.668	S
J2		11.25	12.5	12.402	1.435	-0.802	S
J3		18.15	20.5	20.326	1.345	-1.618	S
J6		27.25	30.5	30.094	1.381	-2.06	S

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

Ammonia on impregnated filters (J-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
J1	NH ₃ <i>µg N/filter</i>	16.03	15.3	15.451	1.439	0.402	S
J2		12.03	12.5	12.402	1.435	-0.259	S
J3		20.51	20.5	20.326	1.345	0.137	S
J6		29.55	30.5	30.094	1.381	-0.394	S

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Laboratory 182, Research Institute for Analytical Instrumentation, ICIA (Romania)

Ammonia on impregnated filters (J-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
J1	NH ₃ <i>µg N/filter</i>	18.39	15.3	15.451	1.439	2.042	Q
J2		9.31	12.5	12.402	1.435	-2.154	Q
J3		18.59	20.5	20.326	1.345	-1.291	S
J6		28.71	30.5	30.094	1.381	-1.002	S

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Laboratory 200, FUB AG (Switzerland)

Ammonia on impregnated filters (J-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score [*]	EMEP quality norm [¤]
J1	NH ₃ <i>µg N/filter</i>	14.29	15.3	15.451	1.439	-0.807	S
J2		12.11	12.5	12.402	1.435	-0.203	S
J3		19.6	20.5	20.326	1.345	-0.54	S
J6		29.27	30.5	30.094	1.381	-0.597	S

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