

EMEP – 30th 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 [¤]
J2	NH ₃	28.25	26.07	25.39	1.999	1.431	S
J3	NH ₃	35.8	32.08	31.147	1.992	2.336	S
J4	NH ₃	16.12	14.04	14.438	1.041	1.615	S
J6	NH ₃	10.52	10.03	9.449	1.142	0.938	S

¥ If your laboratory reported values for the blank samples, the mean value is subtracted from the reported value.

If your laboratory reported the methods detection limit for the blank sample, ½ DL is subtracted from the reported value.

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

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

Please check the EMEP intercalibration website for Youden plots, updated expected values ect:

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EMEP – 30th 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 [¤]
J2	NH ₃	20.55	26.07	25.39	1.999	-2.421	Q
J3	NH ₃	31.06	32.08	31.147	1.992	-0.044	S
J4	NH ₃	14.07	14.04	14.438	1.041	-0.353	S
J6	NH ₃	9.51	10.03	9.449	1.142	0.054	S

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EMEP – 30th intercomparison of analytical methods

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 [¤]
J2	NH ₃	24.9	26.07	25.39	1.999	-0.245	S
J3	NH ₃	30.37	32.08	31.147	1.992	-0.39	S
J4	NH ₃	14.59	14.04	14.438	1.041	0.146	S
J6	NH ₃	9.71	10.03	9.449	1.142	0.229	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 [¤]
J2	NH ₃	27.45	26.07	25.39	1.999	1.031	S
J3	NH ₃	33.75	32.08	31.147	1.992	1.307	S
J4	NH ₃	15.35	14.04	14.438	1.041	0.876	S
J6	NH ₃	10.65	10.03	9.449	1.142	1.052	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 [¤]
J2	NH ₃	17.358	26.07	25.39	1.999	-4.018	Q
J3	NH ₃	21.404	32.08	31.147	1.992	-4.891	Q
J4	NH ₃	10.066	14.04	14.438	1.041	-4.198	Q
J6	NH ₃	6.605	10.03	9.449	1.142	-2.49	Q

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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 [¤]
J2	NH ₃	26.17	26.07	25.39	1.999	0.39	S
J3	NH ₃	32.61	32.08	31.147	1.992	0.734	S
J4	NH ₃	14.49	14.04	14.438	1.041	0.05	S
J6	NH ₃	9.68	10.03	9.449	1.142	0.203	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 [¤]
J2	NH ₃	22.93	26.07	25.39	1.999	-1.23	S
J3	NH ₃	28.86	32.08	31.147	1.992	-1.148	S
J4	NH ₃	13.09	14.04	14.438	1.041	-1.294	S
J6	NH ₃	9	10.03	9.449	1.142	-0.393	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 [¤]
J2	NH ₃	25.585	26.07	25.39	1.999	0.098	S
J3	NH ₃	32.05	32.08	31.147	1.992	0.453	S
J4	NH ₃	14.275	14.04	14.438	1.041	-0.156	S
J6	NH ₃	8.517	10.03	9.449	1.142	-0.816	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 [¤]
J2	NH ₃	26.179	26.07	25.39	1.999	0.395	S
J3	NH ₃	32.379	32.08	31.147	1.992	0.618	S
J4	NH ₃	14.279	14.04	14.438	1.041	-0.153	S
J6	NH ₃	9.589	10.03	9.449	1.142	0.123	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 [¤]
J2	NH ₃	23.44	26.07	25.39	1.999	-0.975	S
J3	NH ₃	28.84	32.08	31.147	1.992	-1.158	S
J4	NH ₃	12.84	14.04	14.438	1.041	-1.534	S
J6	NH ₃	9.877	10.03	9.449	1.142	0.375	S

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EMEP – 30th intercomparison of analytical methods

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

Ammonia on impregnated filters (J-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm [¤]
J2	NH ₃	25.3	26.07	25.39	1.999	-0.045	S
J3	NH ₃	31.37	32.08	31.147	1.992	0.112	S
J4	NH ₃	14.59	14.04	14.438	1.041	0.146	S
J6	NH ₃	10.23	10.03	9.449	1.142	0.684	S

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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 [¤]
J2	NH ₃	24.953	26.07	25.39	1.999	-0.219	S
J3	NH ₃	31.392	32.08	31.147	1.992	0.123	S
J4	NH ₃	13.123	14.04	14.438	1.041	-1.263	S
J6	NH ₃	7.503	10.03	9.449	1.142	-1.704	Q

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EMEP – 30th intercomparison of analytical methods

Laboratory 34, Refik Saydam Hygiene Center, Ankara (Turkey)

Ammonia on impregnated filters (J-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm [¤]
J2	NH ₃	27.618	26.07	25.39	1.999	1.115	S
J3	NH ₃	32.36	32.08	31.147	1.992	0.609	S
J4	NH ₃	15.921	14.04	14.438	1.041	1.424	S
J6	NH ₃	9.981	10.03	9.449	1.142	0.466	S

¥ If your laboratory reported values for the blank samples, the mean value is subtracted from the reported value.

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

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EMEP – 30th intercomparison of analytical methods

Laboratory 36, Hydrometeorological Institute of Slovenia (Slovenia)

Ammonia on impregnated filters (J-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm [¤]
J2	NH ₃	23.955	26.07	25.39	1.999	-0.718	S
J3	NH ₃	29.355	32.08	31.147	1.992	-0.899	S
J4	NH ₃	13.355	14.04	14.438	1.041	-1.04	S
J6	NH ₃	9.105	10.03	9.449	1.142	-0.301	S

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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 [¤]
J2	NH ₃	28.89	26.07	25.39	1.999	1.751	S
J3	NH ₃	38.79	32.08	31.147	1.992	3.837	Q
J4	NH ₃	15.59	14.04	14.438	1.041	1.106	S
J6	NH ₃	10.39	10.03	9.449	1.142	0.824	S

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EMEP – 30th 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 [¤]
J2	NH ₃	25.28	26.07	25.39	1.999	-0.055	S
J3	NH ₃	29.58	32.08	31.147	1.992	-0.787	S
J4	NH ₃	13.58	14.04	14.438	1.041	-0.824	S
J6	NH ₃	8.59	10.03	9.449	1.142	-0.752	S

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EMEP – 30th intercomparison of analytical methods

Laboratory 41, Micro Pollutants Technology (France)

Ammonia on impregnated filters (J-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm [¤]
J2	NH ₃	23.75	26.07	25.39	1.999	-0.82	S
J3	NH ₃	27.45	32.08	31.147	1.992	-1.856	S
J4	NH ₃	13.55	14.04	14.438	1.041	-0.853	S
J6	NH ₃	8.45	10.03	9.449	1.142	-0.874	S

¥ If your laboratory reported values for the blank samples, the mean value is subtracted from the reported value.

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EMEP – 30th intercomparison of analytical methods

Laboratory 158, Acid Deposition and Oxidant Research Center ADOCRC, Niigata (Japan)

Ammonia on impregnated filters (J-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm [¤]
J2	NH ₃	24.94	26.07	25.39	1.999	-0.225	S
J3	NH ₃	31.17	32.08	31.147	1.992	0.012	S
J4	NH ₃	14.71	14.04	14.438	1.041	0.261	S
J6	NH ₃	9.69	10.03	9.449	1.142	0.211	S

¥ If your laboratory reported values for the blank samples, the mean value is subtracted from the reported value.

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EMEP – 30th intercomparison of analytical methods

Laboratory 165, Institute of Meteorology and Hydrology, Ha Noi city (Vietnam)

Ammonia on impregnated filters (J-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm [¤]
J2	NH ₃	27.785	26.07	25.39	1.999	1.198	S
J3	NH ₃	33.185	32.08	31.147	1.992	1.023	S
J4	NH ₃	16.225	14.04	14.438	1.041	1.716	S
J6	NH ₃	11.725	10.03	9.449	1.142	1.993	S

¥ If your laboratory reported values for the blank samples, the mean value is subtracted from the reported value.

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EMEP – 30th intercomparison of analytical methods

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

Ammonia on impregnated filters (J-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm [¤]
J2	NH ₃	25.25	26.07	25.39	1.999	-0.07	S
J3	NH ₃	29.85	32.08	31.147	1.992	-0.651	S
J4	NH ₃	15.25	14.04	14.438	1.041	0.78	S
J6	NH ₃	9.65	10.03	9.449	1.142	0.176	S

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EMEP – 30th intercomparison of analytical methods

Laboratory 180, vTI - Institut für Agrarrelevante Klimaforschung (Germany)

Ammonia on impregnated filters (J-samples)

Sample name	Determinand	Reported value [¥]	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm [¤]
J2	NH ₃	24.62	26.07	25.39	1.999	-0.385	S
J3	NH ₃	30.36	32.08	31.147	1.992	-0.395	S
J4	NH ₃	13.76	14.04	14.438	1.041	-0.651	S
J6	NH ₃	5.77	10.03	9.449	1.142	-3.221	U

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