

CERTIFICATE OF ACCREDITATION

No. S-188

dated 16.05.2024

The Slovak National Accreditation Service issues a Certificate of Accreditation to an accredited body pursuant to Section 26 par.6 of Act No. 53/2023 Coll. on Accreditation of Conformity Assessment Bodies (hereinafter referred to as the "Accreditation Act").

EKO-TERM SERVIS s.r.o.

Napájadlá 11/2743, 040 12 Košice

IČO: 31 695 671

Organizational unit performing the activity of the Accredited Body:

Testing laboratory

Workplace of the Accredited Body:

Napájadlá 11/2743, 040 12 Košice

Identification number of the Accredited Body: 226/S-188**Area of accreditation:** Testing laboratory

The testing laboratory demonstrated its competence to perform the accredited activity fulfilling the accreditation requirements of **ISO/IEC 17025: 2017** when performing discontinuous measurement of selected ingredients of exhaust gases emitted into atmosphere from stationary air emissions sources, performance characteristics, determine ratio of vapor and gasoline system of second grade of recuperation at gasoline service stations, sampling of exhaust gases, solid crisp and liquid materials and to express opinions and interpretation of the results within the accreditation scope delineated in the Annex of this Certificate of Accreditation. The Annex shall form an integral part of the Certificate of Accreditation.

Number and date of issue of the accreditation decision: No. 226/11470/2024/1 dated 10.05.2024**Validity of the accreditation decision:**

The accreditation decision No. 226/11470/2024/1 dated 10.05.2024 is valid from 16.05.2024 to 12.10.2028.

The validity of this Accreditation Certificate expires upon the expiry of the accreditation decision, the decision on withdrawal of the accreditation pursuant to Section 31 or the expiry of the accreditation pursuant to Section 32 of the Accreditation Act.


Štefan Král
director

Scope of Accreditation

Accredited body: EKO-TERM SERVIS s.r.o.
Napájadlá 11, 040 12 Košice

Organizational unit performing the activity of the accredited body:
Testing laboratory

Place of performance of the accredited body:
Napájadlá 11, 040 12 Košice

Identification number of the accredited body: 226/S-188

Laboratory with fixed scope

item	Test subject		Implemented method		Other specifications (range, uncertainty, notes)
	Subject / Matrix / Environment	Property / Parameter / Variable / Analyt	Principle / Class/ Type	Marking	
1	Waste gas ²⁾	particulate matter (PM)	isokinetic gravimetric method	STN EN 13284-1 (SMEP-08-IPP)	Notes: 1), 3), 4), 5), 11)
				STN ISO 9096	Notes: 1)
2		fraction of particulate matter PM _{2,5} and PM ₁₀	gravimetric method	STN EN ISO 23210 (SMEP-08-IPP)	Notes 1), 4), 16)
3		darkness of smoke Bacharach degree	photometry	STN ISO 11042-1 čl. 7.8 (SMEP -16-IPP)	Notes: 1), 3), 15)
4		sulphur dioxide (SO ₂)	NDIR	STN ISO 7935 STN P CEN/TS 17021 (SMEP-01-IPP)	Notes: 1), 3), 6), 7), 9)
5		Nitrogen oxides – nitric oxide and nitrogen dioxide, expressed as nitrogen dioxide (NOx)	chemiluminescence NDIR electro-chemically	STN EN 14792 (SMEP-01-IPP)	Notes: 1), 3), 6), 9)
				STN ISO 10849 (SMEP-01-IPP)	Notes: 1), 3), 6), 7), 9)
				EPA CTM 030 (SMEP-02-IPP)	Notes: 1), 3), 8), 9)
6		Nitrous oxide (N ₂ O)	NDIR	STN EN ISO 21258 (SMEP-01-IPP)	Notes: 1), 9)
7		Carbon monoxide (CO)	NDIR electro-chemically	STN EN 15058 (SMEP-01-IPP)	Notes: 1), 3), 6), 9)
				EPA CTM 030 (SMEP-02-IPP)	Notes: 1), 3), 8), 9)
8	carbon dioxide (CO ₂)	NDIR calculation of the volume fraction of CO ₂ from the volume fraction of O ₂ and CO volume concentration of CO ₂ based on elemental analysis of fuel burned	STN ISO 12039 STN P CEN/TS 17405 (SMEP-01-IPP)	Notes: 1), 9), 10)	
			EPA CTM 030 (SMEP-02-IPP)	Notes: 1), 9), 10) - gaseous fuels - liquid fuels	
			SMEP -10-IM	Notes: 1), 10)	
9	Oxygen (O ₂)	paramagnetically electro-chemically	STN EN 14789 (SMEP-01-IPP)	Notes: 1), 3), 6), 9), 10)	
			EPA CTM 030 (SMEP-02-IPP)	Notes: 1), 3), 8), 9), 10)	
10	gaseous organic substances, expressed as total carbon (TOC)	FID	STN EN 12619 (SMEP-06-IPP)	Notes: 1), 3), 6), 9), 12)	
11	gas flow rate /Δp	measuring of temperature and dynamic pressure with a velocity probe/calculation measuring of temperature dynamic pressure with a velocity probe/ calculation Measuring with anemometers	STN ISO 10780 (SMEP-04-IPP)	Notes: 1), 3), 19)	
			STN EN ISO 16911-1 (SMEP-04-IPP)	Notes: 1), 3), 13)	
			STN EN ISO 16911-1 (SMEP-04-IPP-1)	Notes: 1), 3)	

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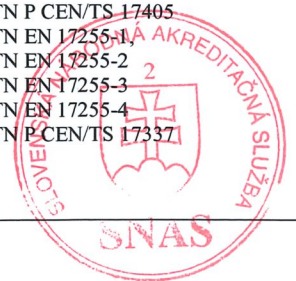
item	Test subject		Implemented method		Other specifications (range, uncertainty, notes)
	Subject / Matrix / Environment	Property / Parameter / Variable / Analyt	Principle / Class/ Type	Marking	
12	Waste gas ²⁾	volumetric flow	measuring pipe cross-section and calculation of the waste gas flow rate	STN EN ISO 16911-1 STN ISO 10780 ¹⁹⁾ , (SMEP-04-IPP)	Notes: 1), 3)
			calculation based on the fuel composition	STN EN ISO 16911-1 (SMEP-04-IPP)	Notes: 1), 3)
13		humidity of the gas in the pipeline	gravimetry (adsorption/condensation adsorption)	STN EN 14790 (SMEP-04-IPP)	Other specifications 1), 3)
		relative humidity of the gas in the pipeline	by electrical capacity and calculation	SMEP-05-IM (RdSchr.d.BMU IG I 2-45053/5)	Notes: 1), 3), 10), 14)
14	Waste gases – gasoline vapors	concentration of petrol vapors in waste gas from the regenerative unit in the terminal	FID	STN EN 12619 (SMEP-06-IPP)	Notes: 1), 3), 9)
15		ratio of vapors and stage II petrol vapor recovery at petrol stations	measurement with the real flow of petrol (wet method A and B)	STN EN 16321-2 (SMEP-19-IPP)	Notes: 1), 9), 20)
16	Stationary sources of pollution ²⁾	individual emission factor	Measurement of the concentration and volumetric flow of waste gas, calculation based on mass flow and the amount of the relational value	STN EN ISO 11771 (SMEP-13-IPP)	Notes: 1), 16)
17		individual mass flow	calculation based on the concentration and volumetric flow	STN EN ISO 11771 (SMEP-13-IPP)	Notes: 1), 16),
18	Selected stationary sources of air pollution ²⁾ under Annex no. 7 of the Decree of MoE SR no. 248/2023 Coll.	Limiting emission factor for PM	measurement of the concentration and volumetric flow of waste gas according to standard methodologies calculation of the emission factor based on mass flow and the amount of the relational value	SMEP-13-IM (STN EN ISO 11771)	Notes: 1), 17)
		limiting emission factor for sulfur oxides: sulfur dioxide, sulfur trioxide and aerosol H ₂ SO ₄ expressed as sulfur dioxide (SO _x)			Notes: 1), 17)
		limiting emission factor for nitrogen oxides: nitric oxide and nitrogen dioxide, expressed as nitrogen dioxide (NO _x)			Notes: 1), 17)
		limiting emission factor for carbon monoxide (CO)			Notes: 1), 17)
		limiting emission factor for organic substances in the form of gases and vapours, expressed as total organic carbon (TOC)			Notes: 1), 17)
		limiting emission factor for mercury and its compounds, expressed as Hg			Notes: 1), 17)
		limiting emission factor for fluorine and its gaseous compounds expressed as HF			Notes: 1), 17), 4)
		limiting emission factor for gaseous ammonia and its compounds, expressed as NH ₃			Notes: 1), 17)
		limiting emission factor for gaseous inorganic chlorine compounds, expressed as HCl, except phosgene, cyanogen chloride and chlorine oxides			Notes: 1), 17)
		limiting emission factor for the 4 th group of the 1 st subgroup of organic gaseous vapors – emissions in general			Notes: 1), 17)



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item	Test subject		Implemented method		Other specifications (range, uncertainty, notes)
	Subject / Matrix / Environment	Property / Parameter / Variable / Analyt	Principle / Class/ Type	Marking	
19	AMS-E	<p>characteristics tested at installation (QAL2) and annual tests (AST): response time, detection limit, linearity, drift in the zero-point, drift in the span point, interference, converter efficiency, losses and leakage along the sampling line in the sample preparation system (leak test), the effect of temperature on the drift of zero value and drift of measurement span, sensitivity to atmospheric pressure, sensitivity to sample flow or sample pressure, the sensitivity to the ambient temperature, sensitivity to voltage repeatability variability, standard deviation, systematic error, overall characteristics of the</p>	<p>tests with certified reference materials/gases, parallel measurements with the standard reference methodology/ reference methodology with other measuring principle than AMS-E</p>	<p>STN EN 14181 TNI CEN/TR 15983 STN EN 15267-4 (SMEP-15-IPP)</p>	<p>Notes: 1), 18)</p> <p>Other introduced specific standards under which AMS / EMS are tested: STN EN 15259, STN EN 14956, STN EN 14793, STN ISO 10396 STN EN 15267-3, STN ISO 7935, STN P CEN/TS 17021 STN EN 14792, STN ISO 10849, STN EN15058, STN EN 12619, STN EN14884, STN EN 1321 RdSchr. d. BMU IG 1 2-45053/5 STN ISO 15713, STN EN 1911, STN 83 4712, STN 83 4728 STN EN13284-1,2, STN EN 14789 STN ISO 12039, STN EN 14790, STN EN ISO 16911-1,2, STN ISO 10155, STN EN ISO 21258, STN ISO 17179, STN ISO 14385-1,2, EPA Method 16 A EPA CTM 033, EPA Method 0040 STN EN ISO 21877, STN P CEN/ TS 17340, STN P CEN /TS 17405 STN EN 17255-1, STN EN 17255-2, STN EN 17255-3, STN EN 17255-4, STN P CEN/TS 17337</p>
20	AMS/EMS	<p>characteristics tested at installation (QAL2) and annual tests (AST): response time, detection limit, linearity, drift in the zero-point, drift in the span point, interference, converter efficiency, losses and leakage along the sampling line in the sample preparation system (leak test), the effect of temperature on the drift of zero value and drift of measurement span, sensitivity to atmospheric pressure, sensitivity to sample flow or sample pressure, the sensitivity to the ambient temperature, sensitivity to voltage repeatability variability, standard deviation, systematic error, overall characteristics of the</p>	<p>tests with certified reference materials/gases, parallel measurements with the standard reference methodology/ reference methodology with other measuring principle than AMS/EMS</p>	<p>STN EN 14181 TNI CEN/TR 15983 STN EN 15267-4 (SMEP-15-IPP)</p>	<p>Notes: 1)</p> <p>Other introduced specific standards under which AMS / EMS are tested: STN EN 15259, STN EN 14956, STN EN 14793, STN ISO 10396, STN EN 15267-3, STN ISO 7935, STN P CEN/TS 17021, STN EN 14792, STN ISO 10849, STN EN15058, STN EN 12619, STN EN14884, STN EN 1321 RdSchr. d. BMU IG 1 2-45053/5 STN ISO 15713, STN EN 1911, STN 83 4712, STN 83 4728, STN ISO 10155 STN EN13284-1,2, STN EN 14789, STN ISO 12039, STN EN 14790, STN EN ISO 16911-1,2, STN EN ISO 21258, STN ISO 17179, STN ISO 14385-1,2 EPA Method 16 A, EPA CTM 033, EPA Method 0040, STN EN ISO 21877 STN P CEN/ TS 17340 STN P CEN/TS 17405 STN EN 17255-1, STN EN 17255-2 STN EN 17255-3 STN EN 17255-4 STN P CEN/TS 17337</p>



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item	Test subject		Implemented method		Other specifications (range, uncertainty, notes)
	Subject / Matrix / Environment	Property / Parameter / Variable / Analyt	Principle / Class/ Type	Marking	
21	Waste gas ²⁾	sulphur dioxide (SO ₂)	FTIR	STN P CEN/TS 17337 (SMEP-20-IPP)	Notes: 1), 3), 9)
		Nitrogen oxides (NO)			
		nitrogen dioxide (NO ₂)			
		gas humidity in the pipeline			
		formaldehyde			
		acetaldehyde			
		fluorine and its gaseous compounds expressed as HF			
		gaseous inorganic chlorine compounds as HCl			
		ammonia and its gaseous compounds as NH ₃			
		methane (CH ₄)			
		propane (C ₃ H ₈)			

Notes and explanation of abbreviations:

- 1) Opinions and interpretations.
- 2) Discontinuous emission measurements according to STN EN 15259.
- 3) Sphere of application – environmental protection, subject area of eligible measurement under Annex 9, letter a) point 1 of the Act. No. 146/2023 Coll. on air, and amending and supplementing certain acts, execution of activity at the customers.
- 4) CTZL, CPM – the result of measuring mass concentration of particulate matter, or fractions of particulate matter.
- 5) STN EN 13284-1 is applied as a standard reference method even in cases where the consent, authorization or documentation of the object of eligible measurement present methodology according to STN ISO 9096, or for gas turbines, a methodology under STN ISO 11042-1 is presented.
- 6) The methodology is applied as a standard reference method even in cases where the consent, authorization or documentation of the object of eligible measurement present methodology according to STN ISO 11042-1 in case of gas turbines.
- 7) Requirements for field measurement and check/validity of the result are applied according to the latest edition of STN EN14792.
- 8) Combustion of natural gas, diesel, liquefied hydrocarbon fuels and liquid fuels with a sulfur content of 1 % by weight and lower in combustion plants, including gas turbines and reciprocating engines with a total nominal thermal input below 50 MW.
- 9) Sampling is an integral part of measurement process.
- 10) Volumetric fraction expressed in per cents.
- 11) Sphere of application – environmental protection, subject area of eligible measurement under Annex 9, letter a) point 5 of the Act. No. 146/2023 Coll. on air, and amending and supplementing certain acts
- 12) STN EN 12619 is applied as a standard reference method even in cases where the consent, authorization or documentation of the object of eligible measurement present methodology according to STN EN 13526.
- 13) STN EN 16911-1 is applied as a standard reference method even in cases where the consent, authorization or documentation of the object of eligible measurement present methodology according to STN ISO 9096.
- 14) Alternative custom modified non-standard methodology processed from a professional source according to Section 6(4a and 6 of the Ministry of Environment Decree no. 299/2023 Coll.
- 15) STN ISO 11042-1 applies to gas turbines.
- 16) Sphere of application – environmental protection, subject area of eligible measurement under Annex 9, letter a) point 3 of the Act. No. 146/2023 Coll. on air, and amending and supplementing certain acts.
- 17) Sphere of application – environmental protection, subject area of eligible measurement under Annex 9, letter a) point 2 of the Act. No. 146/2023 Coll. on air, and amending and supplementing certain acts
- 18) Sphere of application – environmental protection, subject area of eligible testing of automated measurement systems of pollutant emissions in ambient air and related reference and state values of waste gases under Annex 9, letter c) point 1 of the Act. No. 146/2023 Coll. on air, and amending and supplementing certain acts., execution of activity at the customers.
- 19) For gases with approximately the same density as air.
- 20) Sphere of application – environmental protection, subject area of eligible measurement under Annex 9, letter a) point 7 of the Act. No. 146/2023 Coll. on air, and amending and supplementing certain acts, execution of activity at the customers.

AMS-E – automated measuring system of pollutant emissions from stationary sources of pollution in ambient air

AMS/EMS – automated measuring system/emission measurement system

NDIR – non-dispersive infra-red spectrometry/detection

FID – flame ionization detector

IU - The unit of measure according to a type of relational variable (m3, kg, t).

QAL2 – quality assurance of installation after installing AMS

AST – annual (periodic) inspection of AMS

FTIR - Fourier transform infrared



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Persons legitimate of expressing opinions and interpretations

Name and surname, degree	capacity to express opinions and interpretations - accreditation scope item number.
Ing. Juraj Běl	1 to 21
Ing. Miroslav Boroš	1 to 18, 21
Ing. Attila Farkas	1 to 18, 21
Ing. Martin Chovanec	1 to 21
Ing. Ignác Kožej	1 to 21
Ing. Tomáš Kuskulič, PhD.	1 to 21
Ing. Gabriel Molnár	1 to 18, 21
Ing. Jaroslav Smolej	1 to 21
Ing. Michal Kožej	1 to 18, 21

Sampling

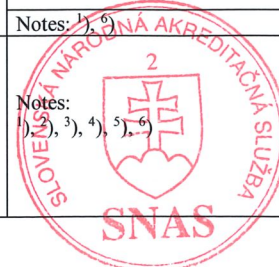
Item	Object			Method		Other specifications
	Subject	Property	Sampling site	Type/ Principle	Marking	
1	Waste gas ²⁾	particulate matter (PM)	Pipeline/ stationary source of pollution	gravimetric method - isokinetic sampling collection onto a filter	STN EN 13284-1 (SMEP-08-IPP)	Notes: 1), 3), 4), 5)
2		fraction of particulate matter PM ₂₅ and PM ₁₀	Pipeline/ stationary source of pollution	gravimetric sampling at a constant flow, impaction method collection onto a filter	STN EN ISO 23210 (SMEP-08-IPP)	Notes: 1), 4)
3		darkness of smoke Bacharach degree	Pipeline/ stationary source of pollution	collection onto a filter	STN ISO 11042-1 čl. 7.8 ⁷⁾ (SMEP -16-IPP)	Notes: 1), 3)
4		humidity of the gas in the pipeline	Pipeline/ stationary source of pollution	gravimetry (adsorption / condensation- adsorption)	STN EN 14790 (SMEP-04-IPP)	Notes: 1), 3), 4)
5		fluorides expressed as F ⁻ in solid state	Pipeline/ stationary source of pollution	collection onto a filter	Met. EPA 13A,B, STN EN 13284-1 STN P CEN/TS 17340 (SMEP-07-IPP SMEP-08-IPP)	Notes: 1), 3), 4), 5), 6)
6		cyanides expressed as CN ⁻ in the solid state	Pipeline/ stationary source of pollution	collection onto a filter	EPA CTM 033 STN EN 13284-1 (SMEP-07-IPP SMEP-08-IPP)	Notes: 1), 3), 4), 5), 6)
7		chlorides expressed as Cl in the solid state	Pipeline/ stationary source of pollution	collection onto a filter	STN EN 13284-1 (SMEP-07-IPP SMEP-08-IPP)	Notes: 1), 6)
8	metals, semimetals and their compounds: selenium and compounds expressed as Se tellurium and compounds expressed as Te beryllium and compounds expressed as Be tin and compounds expressed as Sn zinc and compounds expressed as Zn cobalt and compounds expressed as Co nickel and compounds expressed as Ni thallium compounds expressed as Tl cadmium and compounds expressed as Cd arsenic and compounds expressed as As antimony and compounds expressed as Sb chromium and compounds	Pipeline/ stationary source of pollution	sampling onto the filter and parallel sampling in the sorption solutions	EPA Met.29 EPA Method: Candidate conditional Method ZZ EPA Method X (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)	



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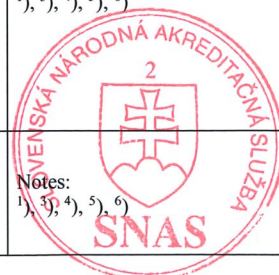
Item	Object			Method		Other specifications		
	Subject	Property	Sampling site	Type/ Principle	Marking			
8	Waste gas ²⁾	expressed as Cr (except Cr ^{VI})	Pipeline/ stationary source of pollution	sampling onto the filter and parallel sampling in the sorption solutions	EPA Met.29 STN EN 14385 EPA Method: Candidate conditional Method ZZ EPA Method X (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)		
		manganese and compounds expressed as Mn						
		copper and compounds expressed as Cu						
		lead and compounds expressed as Pb						
		vanadium and compounds expressed as V						
mercury and compounds expressed as Hg	STN P CEN/TS 17286 (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)						
sampling on the solid sorber,	STN EN 13211 EPA Met.29 EPA Method: Candidate conditional Method ZZ EPA Method X (SMEP-07-IPP)							
Cr ^{VI} compounds expressed as Cr (except barium chromate and lead chromate)	Cr ^{VI} compounds expressed as Cr (except barium chromate and lead chromate)	sampling onto the filter and parallel sampling in the sorption solutions	EPA Met.0061 EPA Method: Candidate conditional Method ZZ EPA Method X (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)				
other metals, semimetals and their compounds: Ag, Al, B, Bi, Ca, Fe, K, Li, Mg, Mo, Na, P, S, Si, Sr, Ti					sampling onto the filter, sampling in the sorption solution	STN EN 13211 EPA Met.29 STN EN 14385 EPA Method: Candidate conditional Method ZZ EPA Method X (SMEP-07-IPP)	Notes: 1), 6)	
9	Waste gas ²⁾	gaseous inorganic substances:	Pipeline/ stationary source of pollution	sampling onto the filter and parallel sampling in the sorption solutions	STN P CEN/ TS 17340 STN ISO 15713 STN 83 4752 (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)		
		fluorine and its gaseous compounds expressed as HF						
		sulfide					STN 83 4712 (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)
		ammonia and its gaseous compounds as NH ₃					STN 83 4728 STN EN ISO 21877 (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)
		gaseous inorganic chlorine compounds as HCl					STN EN 1911 (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)
		chlorine and chlorine oxides expressed as Cl					STN 83 4751 OSHA ID 202 (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)
		sulfur oxides (SO _x) - sulfur dioxide, sulfur trioxide and aerosol H ₂ SO ₄ expressed as sulfur dioxide (SO ₂)					STN 83 4711 (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)
		sulfur dioxide SO ₂ including the proportion of SO ₃ expressed as sulfur dioxide (SO ₂)					STN EN 14791 (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)
		hydrogen cyanide HCN					EPA CTM 033 (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)
10	Waste gas ²⁾	organic gases and vapors:	Pipeline/ stationary source of pollution	sampling into the sorption solutions	STN P CEN/TS 17638 EPA 0011 (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6) 10)		
		acetaldehyde						
		formaldehyde						
		furfural						
		benzaldehyde						
		butylaldehyde						
		glutaraldehyde		Notes: 1), 6)				
		toluene		sampling on the solid sorber, sampling bag	STN P CEN/TS 13649 EPA Met.0040 STN EN 13725 (SMEP-07-IPP)	Notes: 1), 2), 3), 4), 5), 6)		
		ethylbenzene						
		tetrachloroethene						
		styrene						
		acetone						
		isopropylbenzene						
dichloromethane								



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Item	Object			Method		Other specifications
	Subject	Property	Sampling site	Type/ Principle	Marking	
10	Waste gas ²⁾	1,4-dichlorobenzene	Pipeline/ stationary source of pollution	sampling on the solid sorbent, sampling bag	STN P CEN/TS 13649 EPA Met.0040 STN EN 13725 (SMEP-07-IPP)	Notes: 1), 2), 3), 4), 5), 6)
		benzene				
		trichlorethylene				
		tetrachloroethane				
		tetrachlorethylene				
		nitrobenzene				
		trichloromethane				
		nitrotoluene				
		3-ethyltoluene				
		chloromethane				
		carbon tetrachloride				
		trimethylbenzene				
		chlorobenzene				
		xylene				
		2-butanone				
		1,2-dibromoethane				
		ethylene chlorohydrine				
		epichlorohydrin				
		ethylene oxide				
		propylene oxide				
		alkenes (olefins)				
		alkanes (paraffins) except methane				
		vinyl chloride				
		propylene chlorohydrin				
		acrylonitrile				
		1,3-butadiene				
		carbon disulphide				
		1,2 dichloroethane				
		1,1 dichloroethylene				
		chloroethane				
		1,1 dichloroethane				
		1,2-dichloroethylene				
		4-hydroxy-4-methyl-2- pentanone				
		4-methyl-2-pentanone				
		2-chloropropane				
		methyl methacrylate				
		ethyl acrylate				
		methyl acrylate				
		methyl acetate				
		vinyl acetate				
		butyl acetate				
		ethyl acetate				
dibutyl ether						
diethyl ether						
diphenyl ether						
diisopropyl ether						
pyridine						
cyclohexanone						
		Methane (CH ₄)		sampling bag	EPA Met.0040 (SMEP-07-IPP)	Notes: 4 1), 2), 9)
		cresol		sampling on the solid sorbent	STN P CEN/TS 13649 (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)
		phenol				
		nitrocresols				
		nitrophenols				
		ethanolamine				
		alkyl alcohols				
		cyclic alcohols				
		toluidine				
		dimethylamine				
		diethylamine				
		aniline				
		mercaptans, organic compounds containing reduced sulfur		sampling into the sorption solutions	EPA met.16A (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)



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Item	Object			Method		Other specifications
	Subject	Property	Sampling site	Type/ Principle	Marking	
10		formic acid acetic acid	Pipeline/ stationary source of pollution	sampling in the solution, sampling on the solid sorbent	VDI 2457 B1.4 STN P CEN/TS 13649 (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)
11	Waste gas ²⁾	polyaromatic hydrocarbons (PAHs): benzo(a)pyrene dibenz[a,h]anthracene naphthalene 2-naphthylamine	Pipeline/ stationary source of pollution	isokinetic sampling on the filter and sampling in the gas state on a solid sorbent	STN ISO 11338 STN EN 13284-1 (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)
12		polychlorinated dibenzo-p-dioxins (PCDDs) and polychlorinated dibenzofurans (PCDFs) polychlorinated biphenyls (PCBs)	Pipeline/ stationary source of pollution	isokinetic sampling on the filter and sampling in the gas state on a solid sorbent	STN EN 1948-1,4 (SMEP-17-IPP)	Notes: 1), 3), 4), 5), 6)
13	Solid and bulk materials	organic substances, expressed as total carbon (TOC) - content in the residual cinders and lower ash from the incineration of waste (fuel)	The waste incineration plant	manual sampling	STN EN 13137 (SMEP-03-IPP)	Notes: 1), 8), 9)
		combustible share in the residual cinders and lower ashes expressed as loss on ignition of the combustion of waste (fuel)			STN EN 15935 (SMEP-03-IPP)	Notes: 1), 8), 9)
		metals in unburned particles, sieve analysis, physico-chemical properties of the fuel (unburned particles), melting temperature of ash (potassium content)	Heaps and equipment		STN 01 5111 STN 01 5110	Notes: 1), 9)
14	Solid and liquid materials from the production of polyvinyl-chloride	vinyl chloride (residual content in the product, homopolymers, copolymers, micro polymers, polymer emulsions)	Production of polyvinyl chloride	manual sampling	SMEP-03-IPP	Notes: 1), 8), 9)
15	Liquid materials	Physical and chemical characteristics	Tanks, transport pipelines	Point and decanted samples	STN 65 0512 (SMEP-03-IPP)	Notes: 1), 9)

Notes and explanation of abbreviations:

- 1) NI – opinions and interpretations.
- 2) Discontinuous emission measurements according to STN EN 15259.
- 3) Sphere of application – environmental protection, subject area of eligible measurement under Annex 9, letter a) point 1 of the Act. No. 146/2023 Coll. on air, and amending and supplementing certain acts, execution of activity at the customers.
- 4) Sphere of application – environmental protection, subject area of eligible measurement under Annex 9, letter a) point 3 of the Act. No. 146/2023 Coll. on air, and amending and supplementing certain acts
- 5) Sphere of application – environmental protection, subject area of eligible measurement under Annex 9, letter a) point 5 of the Act. No. 146/2023 Coll. on air, and amending and supplementing certain acts
- 6) Calculation of the mass concentration of the analyte in the waste gas or raw gas based on the amount of analyte in the sample determined by a testing accredited laboratory: EKOLAB s. r. o., Košice, Company ID number 31 684 165.
- 7) STN ISO 11042-1 applies to gas turbines.
- 8) Sphere of application – environmental protection, subject area of eligible measurement under Annex 9, letter a) point 7 of the Act. No. 146/2023 Coll. on air, and amending and supplementing certain acts, execution of activity at the customers.
- 9) analytical determination is carried out by accredited laboratory EKOLAB, s. r. o., Košice, Company ID number 31 684 165.
- 10) The STN P CEN/TS 17638 applies only to formaldehyde sampling



Annex to the Certificate of Accreditation No. S-188 dated 16.05.2024.

*The Annex is an integral part of the
Certificate of Accreditation*

Persons legitimate of expressing opinions and interpretations (sampling)

Name and surname, degree	capacity to express opinions and interpretations - accreditation scope item number.
Ing. Juraj Bél	1 to 13, 15
Ing. Miroslav Boroš	1 to 13, 15
Ing. Attila Farkas	1 to 7
Ing. Martin Chovanec	1 to 15
Ing. Ignác Kožej	1 to 15
Ing. Tomáš Kuskulič, PhD.	1 to 15
Ing. Gabriel Molnár	1 to 15
Ing. Jaroslav Smolej	1 to 15
Ing. Michal Kožej	1 to 15

