

Hellenic Accreditation System



ACCREDITATION CERTIFICATE

No. 329-6

The Hellenic Accreditation System S.A. (ESYD), as the national accreditation body of Greece, in accordance with the Law 4468/2017,

ACCREDITS

the
Laboratory
of the
ALFA MEASUREMENTS
A.TSIPOURI –N.CHATZIFOTIS & Co Ltd

in Nea Ionia, Greece

under the terms of the ELOT EN ISO/IEC 17025: 2017 Standard and the ESYD Criteria, to carry out tests, as specified in the attached Scope of the Accreditation, which may be revised by decisions of ESYD.

The initial accreditation was issued on 2.3.2007. This Certificate is valid until 1.3.2023, provided that the accredited body will comply with the above Standard and the ESYD Criteria.

Athens, 16.04.2021



*Το Ε.Σ.Υ.Δ. έχει υπογράψει τη Συμφωνία Αμοιβαίας Αναγνώρισης της Ευρωπαϊκής Συνεργασίας για τη Διαπίστευση(EA) για τις δραστηριότητες που καλύπτονται από το παρόν πιστοποιητικό.
ESYD is a signatory of the European co-operation for Accreditation (EA) Multilateral Agreement for the activities covered by this certificate*

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Annex F1/19 to the Certificate No. 329-6

SCOPE of ACCREDITATION

of the

Laboratory

of

ALFA MEASUREMENTS A.TSIPOURI-N.CHATZIFOTIS & SIA OE

Tested materials/ products	Types of test/ Properties to be measured	Applied Standards/ Techniques to be used
	Sampling	
Stack emissions from stationary sources	Sampling for the determination of PCDDs/PCDFs and dioxin-like PCBs	ELOT EN 1948-1:2006 ELOT EN 1948-4:2010+A1:2013
	Sampling for the determination of As, Cd, Cr, Co, Cu, Mn, Ni, Pb, Sb, Tl and V.	ELOT EN 14385:2004
	Sampling for the determination of total Hg	ELOT EN 13211:2001/AC:2005
	Sampling for the determination of the mass concentration of individual gaseous organic compounds	CEN/TS 13649:2014
	Sampling for the determination of gas and particle-phase polycyclic aromatic hydrocarbons	ISO 11338-1:2003
Indoor, ambient and workplace air	Sampling of volatile organic compounds	EN ISO 16017-1:2002
Air Quality	Sampling for the determination of PCDDs/PCDFs and PCBs in the ambient air	EPA TO-9 ^A
	Standard method for sampling for the measurement of Pb, Cd, As and Ni in the PM10 fraction of suspended particulate matter	ELOT EN 14902:2005/AC:2006
	Standard method for the sampling for the measurement of the concentration of benzo(a)pyrene in ambient air	ELOT EN 15549:2008

	Sampling for the determination of total (gas and particle phase) polycyclic aromatic hydrocarbons	ISO 12884:2000
	Standard method for sampling for the measurement of benzene concentrations Pumped sampling Diffusive sampling	ELOT EN 14662.02:2005 ELOT EN 14662.05:2005
	Sampling and Physical tests	
Stack emissions from stationary sources	Isokinetic sampling and determination of mass concentration of particulate matter	ISO 9096:2017 EN 13284-01:2017
	Sampling and determination of emissions of PM10 and PM2,5 particles	VDI 2066-10:2004 ISO 9096:2017 EN 13284-01:2017 ISO 23210: 2009
	Sampling and measurement of velocity and volume flow rate of effluent gas	ISO 10780:1994
	Stationary source emissions – Manual and automatic determination of velocity and flow rate in ducts. Part 1: Manual reference method	EN ISO16911:2013
	Water-tube boilers and auxiliary installations Part 15: Acceptance tests (velocity and volume flow rate)	EN 12952-15:2003
	Sampling and determination of humidity	EN 14790:2017
Air quality	Optical estimation of darkness of smoke evolving from chimney with use of RINGLEMANN chart	ELOT 815:1986
	Determination of the environmental sound level of installations and other noise sources	EN-IEC 61672-1:2013 ISO 1996-2:2017 ELOT EN ISO 11201:2010
	Standard gravimetric measurement method for the determination of the PM10 or PM2,5 mass concentration of suspended particulate matter	ELOT EN 12341:2014
Workplace atmospheres	Measurement of airborne particles (inhalable and respirable dust)	ELOT EN 481:1994 EN ISO 13137:2013 PD 307/1986 PD 77/1993 PD 90/1999
	Determination of noise exposure and occupational noise	ELOT EN ISO 11201:2010 EN ISO 9612:2009
	Sampling and Chemical tests	

Stack emissions from stationary sources	Sampling and determination of O ₂ , CO ₂ , CO, SO ₂ , NO _x , N ₂ O	ISO 10396:2007 ISO 12039:2019 ISO 7935:1992 ISO 10849:1996 ELOT EN 14789:2017 ELOT EN 15058:2017 ELOT EN 14792:2017 ELOT EN ISO 21258:2011
	Sampling and determination of mass concentration of Sulphur dioxide - Reference method	EN 14791:2017
	Sampling and determination of mass concentration of gaseous chlorides expressed as HCl - Standard reference method	ELOT EN 1911:2010
	Sampling and determination of gaseous fluoride content	ISO 15713:2006
	Sampling and determination of ammonia (NH ₃)	VDI 3878:2017
	Sampling and determination of total organic carbon (TOC) mass concentration by the continuous flame ionization method	ELOT EN 12619:2013
Air quality	Standard method for the measurement of the concentration of nitrogen dioxide and nitrogen monoxide by chemiluminescence	ELOT EN 14211:2012
	Other tests	
Stack emissions from stationary sources	Validation and performance test of automatic measurement systems*	ELOT EN 14181:2014
Cleanrooms and associated control environments	Measurement of airborne dust	ELOT EN ISO 14644-1:1999 ELOT EN ISO 14644-2:2001 ELOT EN ISO 14644-3:2007
Measurements in the vicinity of communication antennas, radio and television station antennas, mobile telephone base stations, radars, microwave wireless network stations	Measurement of high frequency electromagnetic fields (27 MHz – 3 GHz): - Electric field strength (E)	Common Ministerial Decision 2300 (EFA) 493 (Hellenic Gazette 346/B/3-3-2008) § 1-3, § 5-10 and § 4 only the Standards ELOT EN 61566: 1999 (75 MHz – 2 GHz) CEPT ECC / REC / (02) 04 (75 MHz – 3 GHz) ELOT 1422-3: 2007, Ch. 6

* Refers to the accredited tests of the present scope

Site of assessment: **Laboratory permanent premises, 24 Patr.Grigoriou E'str, GR 14231, Nea Ionia, Greece.**
Approved signatories: **A.Tsipouri, N. Chatzifotis.**

The assessment for the test and sampling activities stack emissions was made according to the requirements of ELOT ISO/IEC 17025:2017 as further specified in ELOT CEN/TS 15675:2008.

This Scope of Accreditation replaces the previous one dated 31.05.2019.

The Accreditation Certificate No. **329-6**, to ELOT EN ISO/IEC 17025: 2017, is valid until 01.03.2023.

Athens, 16.04.2021



Spyridon Podaras
CEO of ESYD