

Proficiency Testing



LGC

Water & Environment

ISO/IEC 17043

AIR PT Air & Stack Emissions

The LGC AIR PT scheme is a partnership between LGC and the UK Health and Safety Laboratory (HSL).

The scheme is operated by LGC and is supported by the technical expertise at HSL. The scheme combines our scientific and production expertise in different areas, providing an integrated scheme for all laboratories undertaking analysis of samples from various fields of air monitoring.

We take air for granted: it is ubiquitous, essential, and life-giving. However, it is easily polluted by our activity and so requires regular

monitoring to assess exposures and the effectiveness of containment or ventilation. Many everyday activities create air pollutants with known or suspected harmful effects on human health and the environment. Such pollution can cause both short and long term effects on human, plant and animal life.

Participation in the AIR PT scheme supports a laboratory's quality system in the monitoring and measurement of air quality in a wide range of contexts.



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Test material*	Analyte*
Workplace air (filters)	Aldehydes, Chromium (VI), Lactose, Metals, Respirable grade quartz by FTIR and XRD.
Workplace air (diffusion tubes)	VOCs (charcoal sorbent and thermal desorption).
Workplace air (dust)	Metals.
Ambient air (filters)	Anions, Metals.
Ambient air (diffusion tubes)	Nitrogen dioxide (as nitrite), VOCs (thermal desorption).
Indoor/chamber air (diffusion tubes)	Qualitative and quantitative VOCs (charcoal sorbent and thermal desorption).
Stack emissions (impinger solutions)	Ammonia, Hydrogen chloride, Hydrogen fluoride, Mercury, Nitrogen oxides as (NO ₂), Sulphur dioxide, Metals, Volume of solution.
Stack emissions (rinsing solution)	Dust (total solids).
Gravimetric filters (workplace air, ambient air, stack emissions)	Dust by gravimetry (mass of solids), Fly ash, Metals.

* The full range and availability of test materials and analytes is determined on an annual basis and may be added or removed. For accredited and non-accredited status please see current application form/scheme description.

LGC is the accredited provider of the PT scheme.

