

Please complete all sections below and return to LGC Proficiency Testing: [ptcustomerservices@lgcgroup.com](mailto:ptcustomerservices@lgcgroup.com)

Returning customer Lab ID:

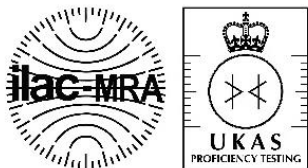
Purchase order no.:   
(compulsory)

Round	Despatch Date	Reporting Deadline	Samples																																							
			Workplace														Ambient			Indoor		Stack Emissions																				
			PT-AR-01	PT-AR-1A*	PT-AR-1B*	PT-AR-1C*	PT-AR-2X	PT-AR-2F	PT-AR-2I	PT-AR-03	PT-AR-04	PT-AR-05	PT-AR-06	PT-AR-07	PT-AR-08	PT-AR-09	PT-AR-10A*	PT-AR-10B*	PT-AR-16*	PT-AR-18*	PT-AR-19*	PT-AR-11	PT-AR-12	PT-AR-12A*	PT-AR-13*	PT-AR-14	PT-AR-17*	PT-AR-21	PT-AR-22	PT-AR-31	PT-AR-32	PT-AR-33	PT-AR-34	PT-AR-35	PT-AR-36	PT-AR-37	PT-AR-38*	PT-AR-39*	PT-AR-40			
AR043	04 May 2021	01 Jun 2021																																								
AR044	21 Jun 2021	13 Sep 2021																																								
AR045	19 Jul 2021	16 Aug 2021																																								
AR046	20 Sep 2021	18 Oct 2021																																								
AR047	15 Nov 2021	14 Feb 2022																																								

\*Please note that these samples are not currently within the scope of LGC's UKAS accreditation.

Please note that there is a January 2021 round available on the previous scheme year application form, please contact LGC for details.

- Not available
- 1 Please indicate the number of samples required in the relevant boxes above



Workplace Air		
Sample	Supplied as	Target Analyte(s)
PT-AR-01# - Metals	4 x spiked membrane filters 25mm Ø	Cadmium; Chromium; Cobalt; Copper; Iron; Manganese; Nickel; Lead; Zinc
PT-AR-1A* - Metals	4 x spiked cassette capsules 37mm Ø	Cadmium; Chromium; Cobalt; Copper; Iron; Manganese; Nickel; Lead; Zinc
PT-AR-1B* - Metals	4 x spiked membrane filters 37mm Ø	Cadmium; Chromium; Cobalt; Copper; Iron; Manganese; Nickel; Lead; Zinc
PT-AR-1C* - Metals	4 x spiked Zefon DIS filter inserts 25mm Ø	Cadmium; Chromium; Cobalt; Copper; Iron; Manganese; Nickel; Lead; Zinc
PT-AR-2X - <u>Direct</u> Measurement of Quartz by XRD	4 x dynamically loaded PVC GLA5000 filters 25mm Ø	Respirable grade quartz by XRD (by <u>direct</u> analysis of filters supplied)
PT-AR-2F - <u>Direct</u> Measurement of Quartz by FTIR	4 x dynamically loaded PVC GLA5000 filters 25mm Ø	Respirable grade quartz by FTIR (by <u>direct</u> analysis of filters supplied)
PT-AR-2I - <u>Indirect</u> Measurement of Quartz by XRD or FTIR	4 x dynamically loaded PVC GLA5000 filters 25mm Ø	Respirable grade quartz by either XRD or FTIR (by <u>indirect</u> analysis, i.e. by ashing and redeposition onto analytical filter or by KBr disc)
PT-AR-03** - Dust	4 x spiked glass fibre filters 25mm Ø	Dust by gravimetry (mass of solids)
PT-AR-04** - Dust	4 x spiked glass fibre filters 37mm Ø	Dust by gravimetry (mass of solids)
PT-AR-05 - VOCs	4 x dynamically loaded charcoal sorbent tubes (workplace air levels)	Benzene; Toluene; Xylene; Ethyl benzene
PT-AR-06 - VOCs	4 x dynamically loaded charcoal sorbent tubes (workplace air levels)	1,1,1-Trichloroethane; n-Hexane; n-Butyl acetate; Tetrachloroethene; Trichloroethylene
PT-AR-07 - VOCs	4 x spiked Tenax thermal desorption tubes (workplace air levels)	Benzene; Toluene; Xylene; Ethyl benzene
PT-AR-08 - Aldehydes	4 x spiked glass fibre filters 25mm Ø	Formaldehyde; Acetaldehyde
PT-AR-09 - Cr (VI)	4 x spiked NaOH treated Millipore PVDF filters 25mm Ø	Chromium (VI)
PT-AR-10A* - Metals***	1 x bulk welding fume sample	Chromium; Cobalt; Copper; Iron; Manganese; Nickel; Zinc
PT-AR-10B* - Lead	1 x bulk lead-containing dust sample	Lead
PT-AR-16* - Diesel fume	4 x dynamically loaded quartz fibre filters 25mm Ø	Elemental carbon
PT-AR-18* - Beryllium	4 x spiked mixed cellulose ester filter 37mm Ø	Beryllium
PT-AR-19* - Cr (VI)	1 x bulk chromate-containing welding fume or paint dust sample	Chromium (VI)

#For sample 1, the manganese measurand is not currently included in LGC's UKAS scope of accreditation.

\*Please note that these samples are not currently within the scope of LGC's UKAS accreditation.

\*\*Filters are despatched to participants in order for them to weigh and then should be returned to LGC Standards Bury for spiking. LGC Standards Bury then re-send the spiked filters back to the participants for reweighing. Please see page 4 for further details.

\*\*\*For sample 10A one or more of the listed elements will be included in each round.

Ambient Air		
Sample	Supplied as	Target Analyte(s)
PT-AR-11 - NO <sub>2</sub>	4 x dynamically loaded Palmes type diffusion tubes	Nitrogen dioxide (as nitrite)
PT-AR-12 - VOCs	4 x dynamically loaded Tenax thermal desorption tubes (ambient air levels)	Benzene; Toluene; Xylene; Ethyl benzene
PT-AR-12A* - VOCs	4 x dynamically loaded Carbpac thermal desorption tubes (ambient air levels)	Benzene; Toluene; Xylene; Ethyl benzene
PT-AR-13* - Metals	4 x spiked quartz fibre filters 47mm Ø	Antimony; Arsenic, Cadmium; Nickel; Lead
PT-AR-14 - Anions on filters	4 x spiked quartz fibre filters 47mm Ø	Chloride; Nitrate, Sulfate
PT-AR-17* - Dust**	4 x spiked quartz fibre filters 47mm Ø	Dust by gravimetry (mass of solids)

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\*\*Filters are despatched to participants in order for them to weigh and then should be returned to LGC Standards Bury for spiking. LGC Standards Bury then re-send the spiked filters back to the participants for reweighing. Please see page 4 for further details.

Indoor/Chamber Air		
Sample	Supplied as	Target Analyte(s)
PT-AR-21 - VOCs (Material Emission Testing)	4 x dynamically loaded Tenax thermal desorption tubes at chamber air levels	Benzene; n-Hexane; Toluene; Butyl acetate; MIBK; Cyclohexanone; p-Xylene; Diacetyl <sup>#</sup> ; Phenol; 124-TMB; Limonene; 4-PCH; Dodecane
PT-AR-22*** - VOCs (Qualitative determination)	2 x dynamically loaded Tenax thermal desorption tubes at chamber air levels	Qualitative determination of VOCs including alcohol, aliphatic, aromatic, ester, halocarbon and terpene compounds

<sup>#</sup>For sample 21, the diacetyl measurand is not currently included in LGC's UKAS scope of accreditation.

\*\*\*See Appendix B in the AIR PT Scheme Description for compound listing.

Stack Emissions		
Sample	Supplied as	Target Analyte(s)
PT-AR-31 - Mercury	1 x potassium permanganate & sulfuric acid impinger solution containing mercury	Volume; Mercury
PT-AR-32 - Mercury	1 x potassium dichromate & nitric acid impinger solution containing mercury	Volume; Mercury
PT-AR-33 - Metals	1 x nitric acid impinger solution containing up to 6 trace metals	<b>AR043</b> – Volume; Sb; Cd; Co; Mn; Se <sup>#</sup> ; V <b>AR045</b> – Volume; Sb; Cd; Co; Mn; Ni; V <b>AR046</b> – Volume; As; Cr; Cu; Pb; Se <sup>#</sup> ; Tl
PT-AR-34 - Sulfur dioxide	1 x hydrogen peroxide impinger solution containing SO <sub>2</sub>	Volume; Sulfur dioxide

<sup>#</sup>For sample 33, Selenium is not currently included in LGC's UKAS scope of accreditation.

Stack Emissions continued		
Sample	Supplied as	Target Analyte(s)
PT-AR-35 - Hydrogen fluoride	1 x sodium hydroxide impinger solution containing HF	Volume; Hydrogen fluoride
PT-AR-36 - Hydrogen chloride	1 x aqueous impinger solution containing hydrogen chloride	Volume; Hydrogen chloride
PT-AR-37 - Ammonia	1 x sulfuric acid impinger solution containing ammonia	Volume; Ammonia
PT-AR-38* - Metals	1 x quartz filter spiked with up to 6 trace elements and fly ash 47mm Ø	<b>AR043</b> – As; Cr; Cu; Pb; Ni; Tl <b>AR045</b> – Sb; Cd; Co; Mn; Se; V <b>AR046</b> – Sb; Cd; Co; Mn; Ni; V
PT-AR-39* - Dust analysis (solution)	1 x rinsing solution containing dissolved and suspended solids	Total solids
PT-AR-40 - Dust analysis (filter)**	4 x spiked quartz filters 47mm Ø	Dust analysis (mass of solids)

\*Please note that these samples are not currently within the scope of LGC's UKAS accreditation.

### Dust Filter Samples (3, 4, 17 and 40) Distribution Schedule

For the dust filter samples (3, 4, 17 and 40), four filters are despatched to participants in order for them to weigh. Participants then ship the filters back to LGC Standards Bury for spiking. LGC Standards Bury re-send the spiked filters back to the participants for reweighing who then report the results (initial value; reweighing value; calculated difference) to LGC Standards Bury via PORTAL for assessment. Dust filter sample specific dates:

Round	Despatch Date (week commencing)	Filters required back at LGC by	Filters re-despatch date (week commencing)	Reporting Deadline
AR044	21 Jun 2021	19 Jul 2021	16 Aug 2021	13 Sep 2021
AR047	15 Nov 2021	13 Dec 2021	17 Jan 2022	14 Feb 2022

**For details on the full technical specification of the scheme, please refer to the AIR Scheme Description.**

Send Test Materials to:	Send Invoices to:
Contact name: Department: Company: Address:  Town/City: Post/Zip Code: Country: Tel: Fax: E-mail:	Contact name: Department: Company: Address:  Town/City: Post/Zip Code: Country: Tel: Fax: E-mail: VAT no:

Send Report Notifications to:
Contact name: E-mail#:

#An email will be sent to this address to notify when the report is available to download from PORTAL, the online reporting system

**Please note:**

- This scheme is managed and operated by LGC Proficiency Testing and is supported through technical advice from HSE. LGC is the accredited PT provider of this scheme.
- Thermal desorption tubes used in samples 7, 12, 12A, 21 and 22 are the Perkin Elmer type (6.4mm OD, 5mm ID and 90mm long).
- Thermal desorption tubes must be returned at the participant's cost to LGC proficiency testing within 2 months after receipt (including additional or repeat samples). Failure to do so will result in an additional charge of £270 per sample set being made to replace the tubes.
- When returning thermal desorption tubes, please label the parcels with the supplied label "Returned Sample tubes for laboratory proficiency testing – no commercial value" and declare a "nominal value of £1 / \$1 / €1". Failure to do so could result in any incurred excise / importation fee being passed onto the participant.
- Please contact LGC Proficiency Testing for prices.
- VAT is payable (at the prevailing rate) by all participants based in the UK.
- All courier charges set by LGC Proficiency Testing do not include local import charges, taxes (etc.), which will be covered by the participant.
- Participants will pay an additional fee to cover courier charges. Please contact LGC Proficiency Testing for current charges.
- Do not send remittance with this form, you will be invoiced subsequently for the full year's participation.
- No refunds will be given for failure to take part in any round of the PT scheme or for cancellation of rounds that have already been invoiced.
- LGC Proficiency Testing reserves the right to not send samples or the report for previous samples to any participant that has not paid their subscriptions within the terms stated on the invoice.
- LGC Proficiency Testing cannot guarantee the number of participants that will return results for any particular round.
- The prices stated are for reporting results and receiving reports electronically via PORTAL (internet reporting).
- Enrolment in AIR PT for samples 7, 8 and 12 only for those laboratories joining via AIHA Industrial Hygiene Proficiency Analytical Testing (IHPAT) program requires agreement on behalf of these participants that the results report shall be released to AIHA Laboratory Accreditation Programs (AIHA-LAP) for accreditation purposes.
- Enrolment in AIR PT by UK laboratories for sample 11 (does not apply to other samples) requires agreement on behalf of these participants that summary performance shall be released to the UK Department, Food and Rural Affairs (DEFRA) and subsequently published on the DEFRA Local Air Quality Management (AQM) website. Please note that this summary information published on the website lists those UK laboratories participating in the AIR PT for sample 11, and provides a percentage of satisfactory performance scores achieved in recent rounds. Participant lab numbers or actual performance scores remain strictly confidential and are not disclosed to DEFRA.
- By signing this application form, you are agreeing to comply by LGC Standards' Standard Terms and Conditions for the Supply of Laboratory Quality Products and Services and the AIR PT scheme specific requirements noted above.

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- No, I do not require marketing information about LGC's products and services at this time

Signature .....

Date .....