AIR PT Scheme
AR0629 - Studio Chimico Ambientale S.R.L.
Individual Report

Round: 10

Issue Number 1

Issued 17 November 2015

Science
for a safer world

LGC | 1 Chamberhall Business Park | Chamberhall Green | Bury | Lancashire | BL9 0AP | UK |
+44(0)161 762 2500 | ptcustomerservices@LGCGroup.com | www.lgcstandards.com

Sample Details

Samples were despatched on 12 Oct 2015
The reporting deadline was 06 Nov 2015

The following samples were distributed in AIR Round 10:

Sample 1: 4 x 25 mm diameter mixed cellulose ester filter spiked with metal solutions plus 2 x blank filters.

Sample 2: 4 x 25 mm diameter PVC filters (GLA5000) loaded with aerosolised quartz by employing the BCIRA respirable sampler (Higgins-Dewell design). One blank filter supplied for participants using XRD technique, up to four blank filters for participants using FTIR technique.

Sample 10A: 1 x powder sample of fume derived from mild and stainless steel welding.

This scheme is managed and operated by LGC Standards Proficiency Testing and is supported through technical advice from HSL. The production of the materials provided for Samples 1-12 and 21 in this round was undertaken by HSL.

Further information regarding assigned values, performance assessment and technical comments can be found under the individual sample and analyte results.

Please note: Not all the test materials / analytes in this proficiency testing scheme are included in our UKAS scope of accreditation. Please see the current Scheme Description for details of non-accredited items.

Individual Report

This individual report contains a summary of all the results submitted and the performance assessments for your laboratory and your individual analysts. Please note that nominated laboratory results are represented by a blue highlight in the analyst box.

Data statistics given in the individual report are for the method you have used for each analyte. Further detail can be obtained from the main report.

Full details of the scheme, sample types, analytes and data analysis can be found in the corresponding Main Report, along with any technical comments, if applicable. The Main Report is the definitive version.

If you have any questions regarding your results which are not answered in the Main Report, please contact us using the details on the front of the report. If you would like to order any samples for re-test, please contact our customer service department or your local office.

Results Summary

Sample	Results Reported	Satisfactory Results	Questionable Results	Unsatisfactory Results	Not Assessed^
2 - Quartz	4	4	0	0	0
Round Total	**4**	**4**	**0**	**0**	**0**

^ Results which are Not Assessed should be reviewed by comparing them with the assigned value and other relevant statistics given in the main report. Participants, according to their internal quality criteria, may consider Not Assessed results to be satisfactory, questionable or unsatisfactory. Further information regarding why results may not be assessed is given in the Scheme Information section of the main report.

Please note surplus PT samples are available as QC materials once the round has closed. These samples can be purchased at a reduced rate if you have taken this sample during the main round.

No unsatisfactory results in this round

No questionable results in this round

2 - Quartz

Analyte	Analyst	Method	Result	Ux	Units	z score (** z' score)	Assigned Value	Ux AV	SDPA	Exp.SDPA	No of results	Median	Mean	Robust SD	SD
2A - Respirable grade quartz	sca	FTIR/Direct on filter	108.1	0.05	µg	-0.52	114.0	2.9	11.40	N/A	12	112.2	109.7	15.50	12.67
2B - Respirable grade quartz	Lab Result	FTIR/Direct on filter	104.0	0.05	µg	0.83 **	95.6	3.4	9.56	10.15	12	99.9	94.8	9.79	13.92
2C - Respirable grade quartz	Lab Result	FTIR/Direct on filter	121.5	0.05	µg	0.90	111.5	3.3	11.15	N/A	12	109.5	105.8	17.43	18.24
2D - Respirable grade quartz	Lab Result	FTIR/Direct on filter	146.3	0.05	µg	0.20	143.5	3.5	14.35	N/A	12	142.4	137.4	7.64	12.93

** Please note, participant performance for this analyte has been assessed using a z' score, rather than a z score, in order to account for the measurement uncertainty of the assigned value which is not negligible when compared to the SDPA.