



Your Essential  
Connection

2/7/2007

Charles Manning  
AT Labs, A Unit Of Assay Technology  
250 DeBartolo Place  
Suite 2525  
Youngstown, OH 44512

Lab ID# 100903

Dear Charles,

Please find your laboratory's Industrial Hygiene Proficiency Analytical Testing (IHPAT) results for **Round 168**. The deadline for ordering a retest is March 2, 2007. IHPAT **Round 169** sample kits will be mailed to laboratories around April 1, 2007. Your laboratory's data will be due by 11:59pm EST on May 1, 2007. The analytes for round 169 are:

- **Metals – cadmium, lead, zinc**
- **Asbestos – chrysotile**
- **Silica – calcite background**
- **Organics – chloroform(CFM), 1,2 dichloroethane(DCE), 1,1,1-trichloroethane (MCM)**

Please handle, store and analyze your laboratory's PAT samples in the same manner as routine client samples. To submit your laboratory's data, please visit the Proficiency Analytical Testing (PAT) page and click on the PAT Data Entry Portal:

<http://www.aiha.org/Content/LQAP/PT/pt.htm>

Your laboratory's password needed to access the PAT Data Entry Portal is provided in the upper right hand corner (next to your lab ID#) of the address label on the results submission form included with your PAT samples.

**Print and save the confirmation page** after submitting data via the AIHA PAT Data Entry Portal.

**The AIHA Laboratory Quality Assurance Programs Policies and Application for AIHA accreditation are available on-line.**

<http://www.aiha.org/Content/LQAP/documents/documents.htm>

**Note: The Policies for 2007 comply with ISO/IEC 17025: 2005.**

I encourage you to contact me with any feedback, questions or if you wish to contest your results at (703) 846-0797.

Sincerely,

Natasha Sekitoleko  
PAT Data Specialist

## Industrial Hygiene Proficiency Analytical Testing Results

This document contains three sub-reports relating to IHPAT Round 168. The first report contains your laboratory's results listed per contaminant, per sample. The second report contains your current and 2 previous test round performance respectively (where applicable), and the final report contains summary results for all laboratories for IHPAT round 168.

### Testing Results for IHPAT Round 168

This part of the report contains your laboratory's results listed per contaminant, per sample.

Contaminant	Units	#	Result	Ref. Value	Lower Limit	Upper Limit	z-Score	Rating
Cadmium (CAD)	mg	1	0.0182	0.0169	0.0141	0.0197	1.4	A
	mg	2	0.0127	0.0120	0.0102	0.0137	1.2	A
	mg	3	0.0073	0.0068	0.0058	0.0079	1.4	A
	mg	4	0.0024	0.0022	0.0017	0.0028	1.2	A
Chromium (CHR)	mg	1	0.2110	0.1978	0.1662	0.2295	1.3	A
	mg	2	0.0434	0.0410	0.0342	0.0478	1.1	A
	mg	3	0.0848	0.0798	0.0660	0.0936	1.1	A
	mg	4	0.1570	0.1491	0.1230	0.1753	0.9	A
Lead (LEA)	mg	1	0.0633	0.0584	0.0500	0.0668	1.8	A
	mg	2	0.1040	0.0966	0.0828	0.1105	1.6	A
	mg	3	0.0220	0.0203	0.0169	0.0238	1.5	A
	mg	4	0.0422	0.0394	0.0336	0.0453	1.4	A
Asbestos / Fibers (ASB)	f/mm2	1	271	198	97	334	1.7	A
	f/mm2	2	448	349	190	556	1.5	A
	f/mm2	3	469	269	133	453	3.2	U
	f/mm2	4	106	79	39	134	1.6	A
Methyl Ethyl Ketone (MEK)	mg	1	0.9600	0.9612	0.7633	1.1592	0	A
	mg	2	0.8510	0.7770	0.6239	0.9301	1.5	A
	mg	3	0.5780	0.4898	0.3851	0.5945	2.5	A
	mg	4	0.2300	0.2006	0.1539	0.2473	1.9	A
Methyl Isobutyl Ketone (MIK)	mg	1	0.6360	0.6878	0.5667	0.8090	-1.3	A
	mg	2	0.4910	0.4834	0.3967	0.5700	0.3	A
	mg	3	0.3050	0.2874	0.2267	0.3481	0.9	A
	mg	4	0.1050	0.1015	0.0781	0.1249	0.4	A

**Please note:**

Reference value is the mean of the reference laboratories

Lower limit = reference value - 3 standard deviations

Upper limit = reference value +3 standard deviations

A: Acceptable Analysis; U: Unacceptable Analysis

Z-score = (reported result - reference value)/standard deviation

**Note:** The acceptability of reported results is based on upper and lower performance limits. This is why a reported result may appear unacceptable according to z-score, but be identified as acceptable.

## Overall Performance Summary Concluding with 168

The following table contains your laboratory's current and 2 previous test rounds performance respectively (where applicable). For more information in regard to the determination of proficiency, please see Policy Module 6B, Section 6B.2 for IHPAT and Policy Module 6C Section 6C.2 for ELPAT Lead-in-Air located at: <http://www.aiha.org/Content/LQAP/documents/accredpolicymods.htm>

Sample	Round	Round Performance	Round Score	Proficiency Status -Three Round Score
Metals	166	12/12	Pass	
	167	12/12	Pass	
	168	12/12	Pass	P
Asbestos	166	4/4	Pass	
	167	1/4	Fail	
	168	3/4	Pass	P
Organic Solvents	166	12/12	Pass	
	167	4/4	Pass	
	168	8/8	Pass	P

**Please note:**

The denominators represent the total number of samples analyzed.

The numerators represent the number of acceptable results.

Pass: Round Score  $\geq$  75%      Fail: Round Score  $<$  75%

P – Proficient; NP – Non-proficient.

A laboratory is rated proficient (P) for the associated FoT/Method(s), if the laboratory has a passing score for the applicable PT analyte class in two (2) of the last three (3) consecutive PT rounds. A laboratory is rated non-proficient (NP) for the applicable FoT/Method if the laboratory has failing scores for the associated PT analyte class in two (2) of the last three (3) consecutive PT rounds.

If a laboratory receives samples and does not report the data, the results will be treated as outliers.

