



## AIHA Proficiency Analytical Testing Programs, LLC

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8/16/2011

Charles Manning  
AT Labs, A Unit Of Assay Technology  
1382 Stealth St

Livermore, CA 94551

Lab ID# 101728

Dear Charles Manning,

Please find your laboratory's **Diffusive Sampler** results for the Industrial Hygiene Proficiency Analytical Testing (IHPAT) **Round 186**. It is the laboratory's responsibility to thoroughly review results and to immediately contact the AIHA Proficiency Analytical Testing Programs, LLC in writing, if any errors are found in your report.

The proficiency demonstrated by the results of this IHPAT Diffusive Sampler round is valid until the close of the retest round on October 14, 2011, if the laboratory chooses to participate or the close of the next IHPAT Diffusive Sampler round on February 14, 2012. Unacceptable performance may be improved by correctly analyzing a set of retest samples. Retest Order Forms are available online at [www.aihapat.org](http://www.aihapat.org). The deadline to order a retest is August 26, 2011. Retest sample kits are mailed via USPS Mail within five days after the order deadline.

IHPAT Diffusive Sampler **Round 188** sample kits will be mailed to laboratories around January 1, 2012. Your laboratory's data will be due by 11:59pm EST on February 1, 2012.

Please handle, store and analyze your laboratory's PAT samples in the same manner as routine client samples. To submit results, visit the Proficiency Analytical Testing (PAT) page and click on the PAT Data Entry Portal: [www.aihapat.org](http://www.aihapat.org). **Always print and save the confirmation page** after submitting data via the PAT Data Entry Portal.

Your laboratory's password, needed to access the reports through 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 worksheet included with your PAT samples.

Participants shall not describe their proficiency status in a manner that implies accreditation, certification or variations thereof. PAT results pertain only to the participant organization at the location listed on this results report.

I encourage you to contact me with any feedback, questions or if you wish to contest your results at [nmugambwa@aiha.org](mailto:nmugambwa@aiha.org).

Sincerely,

A handwritten signature in black ink that reads "Nmugambwa". The signature is written in a cursive style with a large initial "N" and "M".

Natasha Mugambwa, MS  
Manager, AIHA PAT Programs, LLC

## Industrial Hygiene Proficiency Analytical Testing Results

This document contains three sub-reports relating to Diffusive Round 186. The first report contains your laboratory's results listed per contaminant, per sample. The second report contains your current and 2 previous test rounds performance respectively (where applicable), and the final report contains summary results for all laboratories for Diffusive Round 186.

### Testing Results for Diffusive Round 186

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
Benzene (BNZ)	ppm	1	10.98	11.62	9.53	13.72	-0.9	A
	ppm	2	35.73	35.79	29.35	42.23	0.0	A
O-xylene (OXY)	ppm	1	30.57	36.65	30.05	43.24	-2.8	A
	ppm	2	16.33	17.56	14.40	20.73	-1.2	A
Toluene (TOL)	ppm	1	11.77	12.92	10.59	15.25	-1.5	A
	ppm	2	24.98	25.12	20.60	29.65	-0.1	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

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

A: Acceptable Analysis; U: Unacceptable Analysis

The acceptability of reported results is based on upper and lower performance limits.

## Overall Performance Summary Concluding with 186

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 visit [http://www.aiha.org/lc\\_pat/programs\\_ihpat.htm](http://www.aiha.org/lc_pat/programs_ihpat.htm)

Sample	Round	Round Performance	Round Score	Proficiency Status -Three Round Score
AT	182	5/6	Pass	
	184	6/6	Pass	
	186	6/6	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; I – Indeterminate.

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

