



## AIHA Proficiency Analytical Testing Programs

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Report Issue Date: 02/17/2012

Santiago Martinez  
Environ Cientifica Ltda.  
R. Silva Jardim, nº 251 - Centro

São Bernardo do Campo, S.P. CEP 09715 090 BRAZIL

Participant ID# 102800

Dear Santiago Martinez,

Please find your laboratory's **Diffusive Sampler** results for the Industrial Hygiene Proficiency Analytical Testing (IHPAT) **Round 188**. It is the participant's responsibility to thoroughly review results and to immediately contact the AIHA Proficiency Analytical Testing Programs 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 April 13, 2012, if the participant chooses to enroll in the retest round, or the posting of the results of the next IHPAT Diffusive Sampler round on August 15, 2012. Unacceptable performance may be improved by correctly analyzing a set of retest samples. Retest Order Forms and the PAT Programs Schedule are available online at [www.aihapat.org](http://www.aihapat.org). The deadline to order a retest is February 29, 2012.

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. Round results are only released to the participant and those entities requiring this information for accreditation and contract purposes. New participants are made aware of the arrangement in advance of participation and consent is sought prior to the release of records for participants. PAT reports may not be reproduced or distributed unless copied in its entirety.

IHPAT Diffusive Sampler **Round 190** sample kits will be mailed to participants around July 1, 2012. An email will be sent out upon shipment of round 190 samples. If you do not receive samples within fifteen (15) days please contact the AIHA PAT Programs. Participant data will be due by 11:59pm ET on August 1, 2012.

Samples are generated, characterized, packaged, and shipped by SRI International, Menlo Park, CA 94025 under contract with AIHA Proficiency Analytical Testing Programs. Unless otherwise noted, sample homogeneity and stability criteria were satisfied for all samples.

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, flowing style.

Natasha Mugambwa, MS  
Manager, AIHA PAT Programs

## Industrial Hygiene Proficiency Analytical Testing Results

This document contains three sub-reports relating to Diffusive Round 188. 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 188.

### Testing Results for Diffusive Round 188

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	12.53	12.34	10.12	14.56	0.3	A
	ppm	2	22.14	22.83	18.72	26.94	-0.5	A
O-xylene (OXY)	ppm	1	16.88	16.71	13.70	19.72	0.2	A
	ppm	2	23.75	24.47	20.07	28.88	-0.5	A
Toluene (TOL)	ppm	1	24.90	24.40	20.01	28.79	0.3	A
	ppm	2	13.05	13.64	11.18	16.09	-0.7	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 188

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
3M	184	6/6	Pass	
	186	6/6	Pass	
	188	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

