

DAT Reports®

Data Analysis Technologies, Inc.

7715 Corporate Blvd.
Plain City, OH 43064
800-733-8644

Sample Analysis Certificate

Client: Atmospheric Analysis & Consulting, Inc. Date: 6/4/2013
Address: 1534 Eastman Avenue, Suite A DAT Project ID: 0513016
Ventura, CA 93003 Date Received: 5/10/2013

Attn: Eric Grosjean
Client Project: Landfill
Analysis: NIOSH 2010/Aliphatic Amines

The following samples were received on 5/10/2013:

DAT Sample ID	Client Sample ID	Date Sampled	Matrix
0513016-1	130559-62849 Trip Blank	5/8/2013	air
0513016-2	130559-62859 BZ-2	5/8/2013	air
0513016-3	130559-62868 U-1	5/7/2013	air
0513016-4	130559-62877 U-2	5/7/2013	air
0513016-5	130559-62886 U-3	5/8/2013	air
0513016-6	130559-62895 D-1	5/7/2013	air
0513016-7	130559-62904 D-2	5/7/2013	air
0513016-8	130559-62913 D-3	5/8/2013	air

Results: See attached summary. The method blank and the field blank contained two analytes below the PQL. Trimethylamine eluted under the solvent peak and could not be quantified.

QC: Method blank, laboratory spike and laboratory spike duplicate.

Reviewed and approved for release by:



Ronald K. Mitchum, Ph.D.
President, DAT

Date: 6/4/2013



ATMOSPHERIC ANALYSIS & CONSULTING, INC.
 1534 Eastman Avenue, Suite A
 Ventura, California 93003
 Phone (805) 650-1642 Fax (805) 650-1644
 E-mail: info@aacilab.com

AAC Project No.
Subcontractor Lab:
 Ronald Mitchum
DAT Laboratory
7715 Corporate Blvd.
Plain City, OH 43064
 800-733-8644

Fedex STDOWN

Terms are pay when payed

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

Client Name AAC, Inc.		Project Name Landfill		Analysis Requested		Send Report:	
Project Mgr (Print Name) Eric Grosjean		Project Number 130559		NIOSH Method 2010 Aliphatic Amines		Attn: Eric Grosjean	
Sampler's Name (Print Name)		Sampler's Signature				Phone #: 805-650-1642	
AAC Sample No.	Date Sampled	Time Sampled	Sample Type	Client Sample ID/Description	Type/No. of containers		Fax #: 805-650-1644
130559-62849	05/08/13		Tube	Trip Blank	Tube 1		Send Invoice to:
130559-62859	05/08/13		Tube	BZ-2	Tube 1		Attn: Eric Grosjean
130559-62868	05/07/13		Tube	U-1	Tube 1		egrosjean@aacilab.com
130559-62877	05/07/13		Tube	U-2	Tube 1		P.O. # NA
130559-62886	05/08/13		Tube	U-3	Tube 1		Turn Around Time
130559-62895	05/07/13		Tube	D-1	Tube 1		24-Hr 48-Hr
130559-62904	05/07/13		Tube	D-2	Tube 1		5 day Normal X
130559-62913	05/08/13		Tube	D-3	Tube 1		Other (Specify)
							Special Instructions / remarks:
							Please provide Level IV Data Package
							Please report in ppbv and ug/m ³ and email Excel spreadsheet
Relinquished by (Signature)			Print name:	Eric Grosjean	Date/Time	Received by (Signature)	Print Name
Relinquished by (Signature)			Print name:		05/08/13 13:45	John Kaltenbach	John Kaltenbach
						Received by (Signature)	Print Name

0513016

DAT SAMPLE RECEIVING

7715 Corporate Blvd. Plain City, OH 43064.

Project Number: 0513016

Date Received: 5/10/2013
Client Name: Atmospheric Analysis &
Tracking number: 799727823036
Custody Seals ?: No

Carrier: FedEx
Analysis: NIOSH 2010/Aliph. Amin
Package Temp: 5.0°C (ice packs)
COC: check if COC from client

Sample Information

Client ID:	Laboratory ID	Date	Matrix:	Container:	Comment:
130559-62849 Trip Blank	0513016-1	5/8/2013	air	gel tube	
130559-62859 BZ-2	0513016-2	5/8/2013	air	gel tube	
130559-62868 U-1	0513016-3	5/7/2013	air	gel tube	
130559-62877 U-2	0513016-4	5/7/2013	air	gel tube	
130559-62886 U-3	0513016-5	5/8/2013	air	gel tube	
130559-62895 D-1	0513016-6	5/7/2013	air	gel tube	
130559-62904 D-2	0513016-7	5/7/2013	air	gel tube	

Laboratory Receiving Initials

0513016

5/10/2013 11:46:05 AM

DAT SAMPLE RECEIVING

7715 Corporate Blvd. Plain City, OH 43064.

Project Number: 0513016

Client ID:	Laboratory ID	Date	Matrix:	Container:	Comment:
130559-62913 D-3	0513016-8	5/8/2013	air	gel tube	

Laboratory Receiving Initials

0513016

5/10/2013 11:46:05 AM

DAT Reports®

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Plain City, OH 43064

Data Summary

NIOSH 2010

Client: AAC, Inc.
Client Project: Landfill
DAT Project: 0513016
Date Sampled: 5/8/2013
Analyst: sm

Client Sample ID	DAT sample ID	Analyte:	Front ug/mL	Back, ug/mL	Sample PQL, Total ug	Total ug Q
130559-62849 Trip Blank	0513016-1	Methylamine	0	0	5.0	ND(5)
		Dimethylamine	0	0	5.0	ND(5)
		Ethylamine	0	0	5.0	ND(5)
		Diethylamine	0	0	5.0	ND(5)
		Butylamine	0	0	5.0	ND(5)
		Triethylamine	0	0	5.0	ND(5)
		Dibutylamine	0	0	5.0	ND(5)

Total ug= sum of front half and back half

ND(xx)= Not detected at or above the PQL

All values blank subtracted

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Data Summary

NIOSH 2010

Client: AAC, Inc.
Client Project: Landfill
DAT Project: 0513016
Date Sampled: 5/8/2013
Analyst: sm

Client Sample ID	DAT sample ID	Analyte:	Front ug/mL	Back, ug/mL	total ug	Sample PQL, Total ug	Total ug Q
130559-62859 BZ-2	0513016-2	Methylamine	0	0	0	5.0	ND(5)
		Dimethylamine	0	0	0	5.0	ND(5)
		Ethylamine	0	0	0	5.0	ND(5)
		Diethylamine	0	0	0	5.0	ND(5)
		Butylamine	0	0	0	5.0	ND(5)
		Triethylamine	0	0	0	5.0	ND(5)
		Dibutylamine	0	0	0	5.0	ND(5)

Total ug= sum of front half and back half
ND(xx)= Not detected at or above the PQL
All values blank subtracted

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Data Summary

NIOSH 2010

Client: AAC, Inc.
Client Project: Landfill
DAT Project: 0513016
Date Sampled: 5/8/2013
Analyst: sm

Client Sample ID	DAT sample ID	Analyte:	Front ug/mL	Back, ug/mL	Sample PQL, Total ug	Total ug	Q
130559-62868 U-1	0513016-3	Methylamine	0	0	5.0	ND(5)	
		Dimethylamine	0	0	5.0	ND(5)	
		Ethylamine	0	0	5.0	ND(5)	
		Diethylamine	0	0	5.0	ND(5)	
		Butylamine	0	0	5.0	ND(5)	
		Triethylamine	0	0	5.0	ND(5)	
		Dibutylamine	0	0	5.0	ND(5)	

Total ug= sum of front half and back half

ND(xx)= Not detected at or above the PQL

All values blank subtracted

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Data Summary

NIOSH 2010

Client: AAC, Inc.
Client Project: Landfill
DAT Project: 0513016
Date Sampled: 5/8/2013
Analyst: sm

Client Sample ID	DAT sample ID	Analyte:	Front ug/mL	Back, ug/mL	Sample PQL, Total ug	Total ug Q
130559-62877 U-2	0513016-4	Methylamine	0	0	5.0	ND(5)
		Dimethylamine	0	0	5.0	ND(5)
		Ethylamine	0	0	5.0	ND(5)
		Diethylamine	0	0	5.0	ND(5)
		Butylamine	0.33	0	5.0	ND(5)
		Triethylamine	0	0	5.0	ND(5)
		Dibutylamine	0	0	5.0	ND(5)

Total ug= sum of front half and back half

ND(xx)= Not detected at or above the PQL

All values blank subtracted

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NIOSH 2010

Client: AAC, Inc.
Client Project: Landfill
DAT Project: 0513016
Date Sampled: 5/8/2013
Analyst: sm

Client Sample ID	DAT sample ID	Analyte:	Front ug/mL	Back, ug/mL	Sample PQL, Total ug	Total ug Q
130559-62886 U-3	0513016-5	Methylamine	0	0	5.0	ND(5)
		Dimethylamine	0	0	5.0	ND(5)
		Ethylamine	0	0	5.0	ND(5)
		Diethylamine	0	0	5.0	ND(5)
		Butylamine	0	0	5.0	ND(5)
		Triethylamine	0	0	5.0	ND(5)
		Dibutylamine	0	0	5.0	ND(5)

Total ug= sum of front half and back half

ND(xx)= Not detected at or above the PQL

All values blank subtracted

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NIOSH 2010

Client: AAC, Inc.
Client Project: Landfill
DAT Project: 0513016
Date Sampled: 5/8/2013
Analyst: sm

Client Sample ID	DAT sample ID	Analyte:	Front ug/mL	Back, ug/mL	Sample PQL, Total ug	Total ug Q
130559-62895 D-1	0513016-6	Methylamine	0	0	5.0	ND(5)
		Dimethylamine	0	0	5.0	ND(5)
		Ethylamine	0	0	5.0	ND(5)
		Diethylamine	0	0	5.0	ND(5)
		Butylamine	0	0	5.0	ND(5)
		Triethylamine	0	0	5.0	ND(5)
		Dibutylamine	0	0	5.0	ND(5)

Total ug= sum of front half and back half

ND(xx)= Not detected at or above the PQL

All values blank subtracted

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NIOSH 2010

Client: AAC, Inc.
Client Project: Landfill
DAT Project: 0513016
Date Sampled: 5/8/2013
Analyst: sm

Client Sample ID	DAT sample ID	Analyte:	Front ug/mL	Back, ug/mL	Sample PQL, Total ug	Total ug	Q
130559-62904 D-2	0513016-7	Methylamine	0	0	5.0	ND(5)	
		Dimethylamine	0	0	5.0	ND(5)	
		Ethylamine	0	0	5.0	ND(5)	
		Diethylamine	0	0	5.0	ND(5)	
		Butylamine	0	0	5.0	ND(5)	
		Triethylamine	0	0	5.0	ND(5)	
		Dibutylamine	0	0	5.0	ND(5)	

Total ug= sum of front half and back half

ND(xx)= Not detected at or above the PQL

All values blank subtracted

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NIOSH 2010

Client: AAC, Inc.
Client Project: Landfill
DAT Project: 0513016
Date Sampled: 5/8/2013
Analyst: sm

Client Sample ID	DAT sample ID	Analyte:	Front ug/mL	Back, ug/mL	Sample PQL, Total ug	Total ug Q
130559-62913 D-3	0513016-8	Methylamine	0	0	5.0	ND(5)
		Dimethylamine	0	0	5.0	ND(5)
		Ethylamine	0	0	5.0	ND(5)
		Diethylamine	0	0	5.0	ND(5)
		Butylamine	0.28	0	5.0	ND(5)
		Triethylamine	0	0	5.0	ND(5)
		Dibutylamine	0	0	5.0	ND(5)

Total ug= sum of front half and back half

ND(xx)= Not detected at or above the PQL

All values blank subtracted

QC Parameters

Blank: Used to assess the suitability of the analysis system

Laboratory spike: Used to assess accuracy of the analysis system for the associated analytes.

Laboratory spike duplicate: Used to assess the precision of the analysis system for all analytes.

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NIOSH 2010

Client: AAC, Inc.
Client Project: Landfill
DAT Project: 0513016
Date Sampled: 5/8/2013
Analyst: sm

Client Sample ID	DAT sample ID	Analyte:	Front ug/mL	Back, ug/mL	Sample PQL, Total ug	Total ug Q
	0513016-MB	Methylamine	0	0	5.0	ND(5)
		Dimethylamine	0	0	5.0	ND(5)
		Ethylamine	0	0	5.0	ND(5)
		Diethylamine	0	0	5.0	ND(5)
		Butylamine	3.45	0	5.0	ND(5)
		Triethylamine	1.14	0	5.0	ND(5)
		Dibutylamine	0	0	5.0	ND(5)

Total ug= sum of front half and back half

ND(xx)= Not detected at or above the PQL

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Client: AAC, Inc.
Client Project: Landfill
DAT Project: 0513016
Date Sampled: NA
Analyst: sm

Client Sample ID	DAT sample ID	Analyte:	Front ug/mL	Sample PQL, Total ug	Total ug	%R	Q
	0513016-LS	Methylamine	38.42	5.0	38.4	76.8	
		Dimethylamine	37.04	5.0	37.0	74.1	
		Ethylamine	34.98	5.0	35.0	70.0	
		Diethylamine	33.77	5.0	33.8	67.5	
		Butylamine	31.04	5.0	31.0	62.1	
		Triethylamine	31.22	5.0	31.2	62.4	
		Dibutylamine	34.19	5.0	34.2	68.4	

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Date Sampled: NA
Analyst: sm

Client Sample ID	DAT sample ID	Analyte:	Front ug/mL	Sample PQL, Total ug	Total ug	%R	Q
	0513016-LSD	Methylamine	49.07	5.0	49.1	98.1	
		Dimethylamine	44.33	5.0	44.3	88.7	
		Ethylamine	42.11	5.0	42.1	84.2	
		Diethylamine	47.41	5.0	47.4	94.8	
		Butylamine	43.75	5.0	43.8	87.5	
		Triethylamine	46.42	5.0	46.4	92.8	
		Dibutylamine	47.00	5.0	47.0	94.0	