

Analytical Report

Sample Report

Client: Air Quality Inspections
1245 Main St. Suite B
Pleasantville, MA 84847

Sampled By: Alex Carter
Project: Smith
Location: 123 W. Maple Ave.
Boston, MA 25478

Client Sample ID: Basement
Volume: 24 L
Date Sampled: 12/31/2012
Sample Type: TDT 112J

COC: 6010
Laboratory ID: 6010-1

Received Date: 01/02/2013
Approved Date: 01/02/2013
Scanned Date: 01/04/2013
Report Date: 01/10/2013

A2-HSMS TDT Air Scan Analysis

A scan was made for all compounds contained in the Air Survey Analysis List (TB503, Rev. 15, Quantitative List A and Semiquantitative List) using NIOSH method 2549. All compounds detected are listed below.

Compound	Sample Concentration	Reporting Limit	Additional Information
	ng/L	ng/L	
Total VOCs	2500	200	Total volatile organic compounds calculated based on internal standard ratio; does not include C1, C2, or methanol.

Compound	Sample Concentration	Additional Information
	%	
Paint-Range VOCs	25	This is an estimate of the fraction of Total VOCs represented by the sum of compounds typically associated with latex paints, lacquers, enamels, varnishes, sealers, thinners, and polyurethane finishes.

Quantitative List A

Compound	CAS	Sample Concentration		Reporting Limit	Additional Information
		ng/L	ppb	ng/L	
Methylene Chloride	75-09-2	1.3	0.4	0.2	
Benzene	71-43-2	3.1	0.9	0.2	
1,2-Dichloroethane	107-06-2	1.5	0.4	0.2	
Toluene	108-88-3	110	29	0.2	J*
Tetrachloroethene	127-18-4	0.9	0.1	0.2	
Ethylbenzene	100-41-4	6	1.4	0.2	
m,p-Xylene	106-42-3	11	2.4	0.4	
o-Xylene	95-47-6	7	1.6	0.2	
Styrene	100-42-5	1.2	0.3	0.2	

Quantitative List A

Compound	CAS	Sample Concentration		Reporting Limit	Additional Information
		ng/L	ppb	ng/L	
n-Propylbenzene	103-65-1	1.1	0.2	0.2	
1,3,5-Trimethylbenzene	108-67-8	1.6	0.3	0.2	
1,2,4-Trimethylbenzene	95-36-3	5.9	1.2	0.2	
p-Isopropyltoluene	99-87-6	1.5	0.3	0.2	
1,2,3-Trimethylbenzene	526-73-8	1.3	0.3	0.2	
Naphthalene	91-20-3	0.8	0.1	0.2	

Semiquantitative List

Compound	CAS	Sample Concentration		Reporting Limit	RI	Additional Information
		ng/L	ppb	ng/L		
Acetaldehyde	75-07-0	5	3	4	431	
2-Methylbutane	78-78-4	12	4	4	478	
Pentane (C 5)	109-66-0	20	7	4	507	
C4-C6 Hydrocarbon	N/A	9	N/A	4	518	At least one degree of unsaturation; possibly cyclic
Ethanol	64-17-5	740	390	4	525	
C4-C6 Hydrocarbon	N/A	10	N/A	4	531	At least one degree of unsaturation; possibly cyclic
Acetone	67-64-1	45	19	4	551	
Isopropanol	67-63-0	66	26	4	562	
2-Methylpentane	107-83-5	22	6	4	574	
C4-C6 Hydrocarbon	N/A	9	N/A	4	590	
Carbon disulfide	75-15-0	0.8	0.3	0.5	598	
Hexane (C 6)	110-54-3	15	4	4	608	
Ethylacetate	141-78-6	25	7	4	660	
3-Methylhexane	589-34-4	11	3	4	685	
2,2,4-Trimethylpentane	540-84-1	46	10	4	697	
Heptane (C 7)	142-82-5	11	3	4	708	
C6-C8 Hydrocarbon	N/A	33	N/A	4	860	Sum of at least two overlapping hydrocarbons; one is n-butylacetate (CAS 123-86-4)
a-Pinene	80-56-8	55	10	4	969	
2-Butoxyethanol	111-76-2	29	6	4	976	

Semiquantitative List

Compound	CAS	Sample Concentration		Reporting Limit	RI	Additional Information
		ng/L	ppb	ng/L		
1-Butoxy-2-propanol	5131-66-8	18	3	4	1001	
m,p-Ethylmethylbenzene	622-96-8	21	4	4	1013	
C8-C10 Hydrocarbon	N/A	15	N/A	4	1059	Sum of two overlapping hydrocarbons
Limonene	138-86-3 or 5989-27-5	21	4	4	1071	Limonene (CAS 138-86-3) or d-Limonene (CAS 5989-27-5)
C8-C10 Hydrocarbon	N/A	16	N/A	4	1176	Sum of two overlapping hydrocarbons; one is nonanal (CAS 124-19-6)
C8-C10 Hydrocarbon	N/A	21	N/A	4	1184	Contains oxygen; appears to be ethylene glycol monohexyl ether (CAS 112-25-4)
C10-C12 Hydrocarbon	N/A	16	N/A	4	1188	
Benzothiazole	95-16-9	15	3	4	1349	
C13-C15 Hydrocarbon	N/A	14	N/A	4	1412	
Texanol-A	74367-33-2	30	3	4	1474	
Texanol-B	74367-34-3	8	0.8	4	1487	

Compound Notes

J* The accuracy of this determination may be degraded because the reported value exceeded the calibrated range by more than a factor of 10.

These results pertain only to this sample as it was collected and to the items reported.

These results have been reviewed and approved by the Laboratory Director or authorized representative.

Alice Delia

Alice E. Delia, Ph.D., Laboratory Director

Prism Analytical Technologies, Inc.
2625 Denison Dr.
Mt. Pleasant, MI 48858
989-772-5088