BERKELEY ANALYTICAL
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Analysis of Field-Collected Air Samples

Customer and Project Information

Report Certification	
Report number	061-021-IH-Jan0915
Report date	January 9, 2015
Certified by (Name/Title)	Raja Tannous, Laboratory Director
Signature	
Date	*January 14, 2015*

Methods	
U.S. EPA TO-17	Determination of Volatile Organic Compounds in Ambient...
ASTM D 5197	Std. Test Method for Determination of Formaldehyde...

Customer Information	
Customer:	US EPA
City/State/Country	San Francisco, CA, USA
Contact name/Title	Jeff Woodlee
Phone number	415-760-7599

Project Information	
Project number	Not given
Project name	Renovation Jan 6th
Project location	Not given
Project date	January 6, 2015

Laboratory Receiving Information	
Date samples received by lab	January 6, 2015
Condition of samples	No observed problems
Lab tracking numbers	061-021-01 to 061-021-10

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Sample Information

Sample No.	Sample Description	Sampler No.	Date Collected	Volume (L)	Analysis Type	Specified Method
TVOC-1	12th Floor-12168	Mi59958	January 6, 2015	5.730	TVOC, Individual VOCs	TO-17
TVOC-2	12th Floor-12130	A10980	January 6, 2015	5.180	TVOC, Individual VOCs	TO-17
TVOC-3	10th Floor-10221	A10960	January 6, 2015	6.130	TVOC, Individual VOCs	TO-17
TVOC-4	10th Floor-10161	A10979	January 6, 2015	5.925	TVOC, Individual VOCs	TO-17
TVOC-5	Roof-South Side	A10987	January 6, 2015	5.977	TVOC, Individual VOCs	TO-17
F-01	10th Floor-10221	Waters Cart	January 6, 2015	52.226	Formaldehyde	D 5197
F-02	10th Floor-10161	Waters Cart	January 6, 2015	50.441	Formaldehyde	D 5197
F-03	12th Floor-12310	Waters Cart	January 6, 2015	47.150	Formaldehyde	D 5197
F-04	12th Floor-12168	Waters Cart	January 6, 2015	49.851	Formaldehyde	D 5197
F-05	Roof-South Side	Waters Cart	January 6, 2015	54.270	Formaldehyde	D 5197

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Analytical Information

Sample No.	Lab Track. No.	Method	Date Analyzed	Analyst	Data File
TVOC-1	061-021-01	TO-17	January 7, 2015	R. Gill	T150107_05
TVOC-2	061-021-02	TO-17	January 7, 2015	R. Gill	T150107_06
TVOC-3	061-021-03	TO-17	January 7, 2015	R. Gill	T150107_07
TVOC-4	061-021-04	TO-17	January 7, 2015	R. Gill	T140721_08
TVOC-5	061-021-05	TO-17	January 7, 2015	R. Gill	T140718_09
F-01	061-021-06	TO-17	January 7, 2015	T.Cheng	150107\15010723.D
F-02	061-021-07	D 5197	January 7, 2015	T.Cheng	150107\15010725.D
F-03	061-021-08	D 5197	January 7, 2015	T.Cheng	150107\15010727.D
F-04	061-021-09	D 5197	January 7, 2015	T.Cheng	150107\15010729.D
F-05	061-021-10	D 5197	January 7, 2015	T.Cheng	150107\15010731.D

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Project Specific Information

Air samples for the analysis of total volatile organic compounds (TVOCs), Individual VOCs and formaldehyde were received by the laboratory on January 6, 2015. There were five multi-sorbent tubes for the analysis of TVOC and Individual VOCs. There were five DNPH cartridges for the analysis of formaldehyde. The analytical results are reported in Tables 1 – 7. All laboratory data, including but not limited to raw instrument files, calibration files, and quality control checks used to generate the results will be made available to the customer upon request.

The multisorbent air samples were analyzed for VOCs following U.S. EPA Compendium Method TO-17. Individual VOCs (iVOCs) were quantified using multi-point (4 or more points) with calibration curves prepared with pure standards, unless otherwise noted. iVOCs without pure standards were quantified based on their total-ion-current (TIC) responses using toluene as the calibration reference. VOCs at or above the limit of 2 $\mu g/m^3$ are included in the report.

Formaldehyde was analyzed by HPLC and quantified using multi-point (4 or more points) calibration curve. The lower limit of quantitation (LQ) for formaldehyde is 1 $\mu g/m^3$.

All test methods used in this project are contained in the scope of Berkeley Analytical's ISO/IEC 17025 accreditation (TL-383, International Accreditation Service, Inc.).

The total-ion-current chromatograms for the VOC samples are shown in Figure 1-5.

Results

Table 1. Quantitative analysis of TVOC

Sample No.	Sample Name	Volume (L)	Mass* (ng)	Conc ($\mu g/m^3$)
Mi59958	12th Floor-12168	5.730	595	104
A10980	12th Floor-12130	5.180	505	98.0
A10960	10th Floor-10221	6.130	404	66.0
A10979	10th Floor-10161	5.925	797	135
A10987	Roof-South Side	5.977	344	58.0

*Acetonitrile peak if present (contaminate from DNPH sampling) excluded from analysis

Table 2. Quantitative analysis of formaldehyde

Sample No.	Sample Name	Volume (L)	Mass (ng)	Conc ($\mu g/m^3$)	Conc* (ppb)
F-01	10th Floor-10221	52.226	409	7.8	6.4
F-02	10th Floor-10161	50.441	465	9.2	7.5
F-03	12th Floor-12310	47.150	398	8.4	6.9
F-04	12th Floor-12168	49.851	503	10.1	8.2
F-05	Roof-South Side	54.270	76.0	1.4	1.1

Concentration in ppb calculated assuming standard conditions of 25° C and 101.3 kPa.

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Results

Table 3. Quantitative analysis of Mi59958; TVOC-1; 12th Floor-12168; 5.730L

RT (min)	Compound	CAS #	Calib Type*	Mass (ng)	Conc ($\mu g/m^3$)
1.97	Ethanol	64-17-5	S	140	24.4
2.25	2-Propanone (Acetone)	67-64-1	S	73.2	12.8
2.37	2-Propanol	67-63-0	S	19.1	3.3
2.48	Acetonitrile (DNPH contaminant)	75-05-8	TIC	92.3	16.1
6.60	Acetic acid	64-19-7	TIC	26.0	4.5
9.99	Ethylene glycol	107-21-1	S	32.6	5.7
10.97	Propylene glycol	57-55-6	S	32.2	5.6
16.38	d-Limonene	5989-27-5	S	65.2	11.4
19.29	Nonanal	124-19-6	S	15.9	2.8
19.44	Decamethylcyclopentasiloxane	541-02-6	TIC	25.5	4.4
23.69	Caprolactam	105-60-2	S	75.8	13.2

* TIC = Total-ion-current calibration using toluene as surrogate standard

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Results

Table 4. Quantitative analysis of A10980; 12th floor-12130; 5.180L

RT (min)	Compound	CAS #	Calib Type*	Mass (ng)	Conc (µg/m³)
1.54	Methanol	67-56-1	TIC	16.4	3.2
1.97	Ethanol	64-17-5	S	150	29.0
2.25	2-Propanone (Acetone)	67-64-1	S	79.3	15.3
2.37	2-Propanol	67-63-0	S	13.1	2.5
2.48	Acetonitrile (DNPH contaminant)	75-05-8	TIC	93.6	18.1
6.62	Acetic acid	64-19-7	TIC	16.4	3.2
9.46	Toluene	108-88-3	S	10.2	2.0
10.97	Propylene glycol	57-55-6	S	43.1	8.3
19.29	Nonanal	124-19-6	S	16.8	3.2
19.43	Decamethylcyclopentasiloxane	541-02-6	TIC	21.2	4.1
23.69	Caprolactam	105-60-2	S	29.1	5.6

* TIC = Total-ion-current calibration using toluene as surrogate standard

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Results

Table 5. Quantitative analysis of A10960; TVOC-3; 10th floor-10221; 6.130L

RT (min)	Compound	CAS #	Calib Type*	Mass (ng)	Conc (µg/m³)
1.97	Ethanol	64-17-5	S	121	19.8
2.25	2-Propanone (Acetone)	67-64-1	S	56.4	9.2
2.37	2-Propanol	67-63-0	S	11.5	1.9
2.48	Acetonitrile (DNPH contaminant)	75-05-8	TIC	115	18.7
6.61	Acetic acid	64-19-7	TIC	12.6	2.1
19.30	Nonanal	124-19-6	S	12.1	2.0
19.43	Decamethylcyclopentasiloxane	541-02-6	TIC	11.8	1.9
23.70	Caprolactam	105-60-2	S	34.1	5.6

* TIC = Total-ion-current calibration using toluene as surrogate standard

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Results

Table 6. Quantitative analysis of A10979; TVOC-4; 10th floor-10161; 5.925L

RT (min)	Compound	CAS #	Calib Type*	Mass (ng)	Conc ($\mu g/m^3$)
1.54	Methanol	67-56-1	TIC	16.2	2.7
1.97	Ethanol	64-17-5	S	236	39.9
2.25	2-Propanone (Acetone)	67-64-1	S	68.4	11.5
2.37	2-Propanol	67-63-0	S	13.1	2.2
2.49	Acetonitrile (DNPH contaminant)	75-05-8	TIC	345	58.3
6.62	Acetic acid	64-19-7	TIC	18.4	3.1
9.46	Toluene	108-88-3	S	13.6	2.3
10.00	Ethylene glycol	107-21-1	S	15.3	2.6
10.97	Propylene glycol	57-55-6	S	22.3	3.8
16.38	d-Limonene	5989-27-5	S	57.8	9.8
19.29	Nonanal	124-19-6	S	20.4	3.4
19.43	Decamethylcyclopentasiloxane	541-02-6	TIC	70.2	11.9
23.70	Caprolactam	105-60-2	S	74.5	12.6

* TIC = Total-ion-current calibration using toluene as surrogate standard

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Results

Table 7. Quantitative analysis of A10987; TVOC-5; Roof-South Side; 5.977L

RT (min)	Compound	CAS #	Calib Type*	Mass (ng)	Conc ($\mu g/m^3$)
1.97	Ethanol	64-17-5	S	128	21.5
2.25	2-Propanone (Acetone)	67-64-1	S	51.9	8.7
2.37	2-Propanol	67-63-0	S	12.1	2.0
2.48	Acetonitrile (DNPH contaminant)	75-05-8	TIC	11.1	1.9
6.62	Acetic acid	64-19-7	TIC	10.9	1.8
9.46	Toluene	108-88-3	S	11.2	1.9

* TIC = Total-ion-current calibration using toluene as surrogate standard

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Figure 1. GC/MS Total-ion-Current chromatogram of Mi59958; TVOC-1; 12th floor-12168; 5.730L

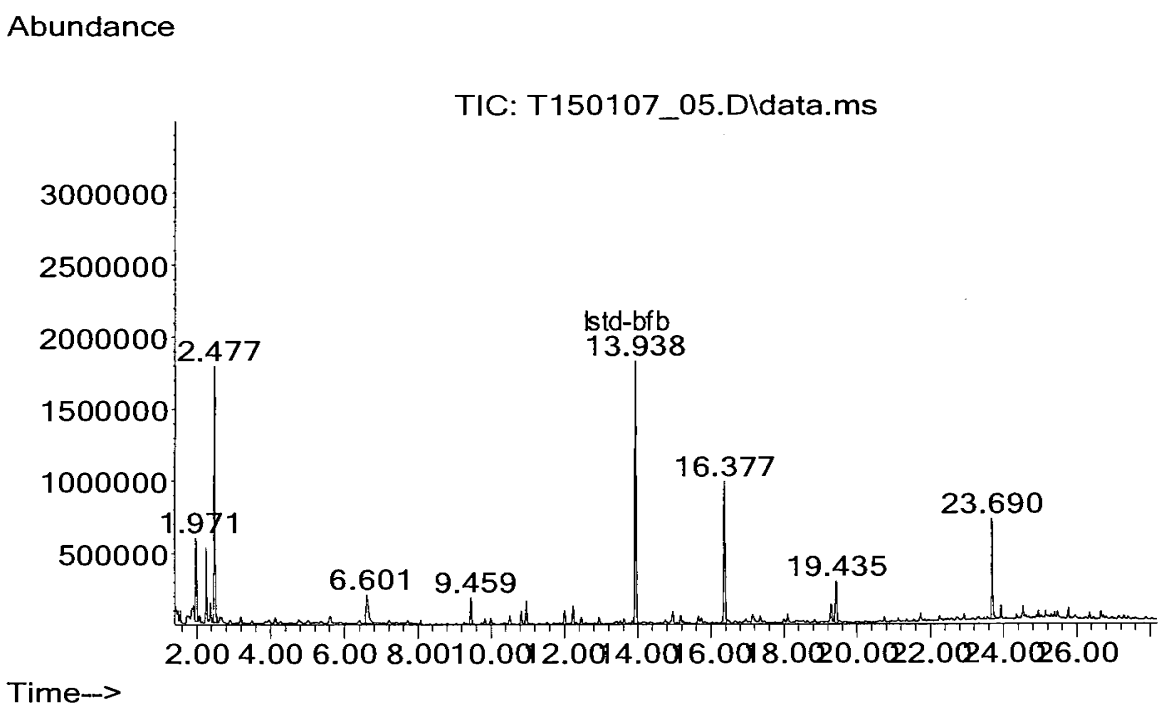


Figure 2. GC/MS Total-ion-Current chromatogram of A10980; TVOC-2; 12th floor-12130; 5.180L

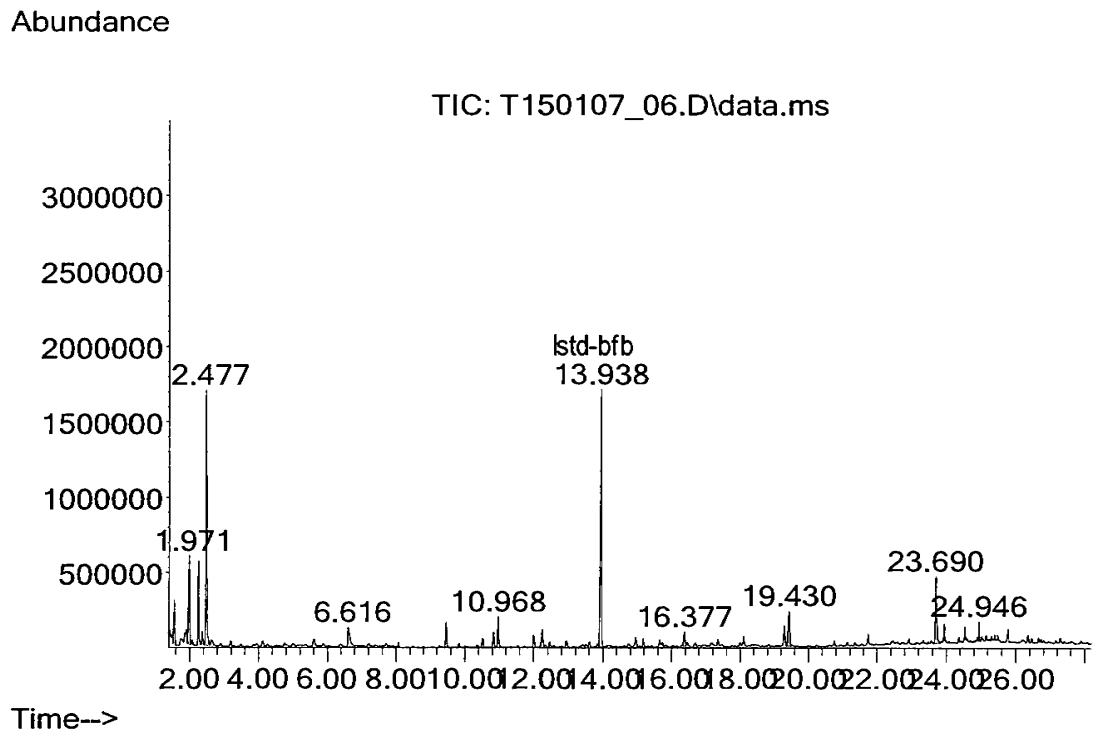


Figure 3. GC/MS Total-ion-Current chromatogram of A10960; TVOC-3; 10th floor-10221; 6.130L

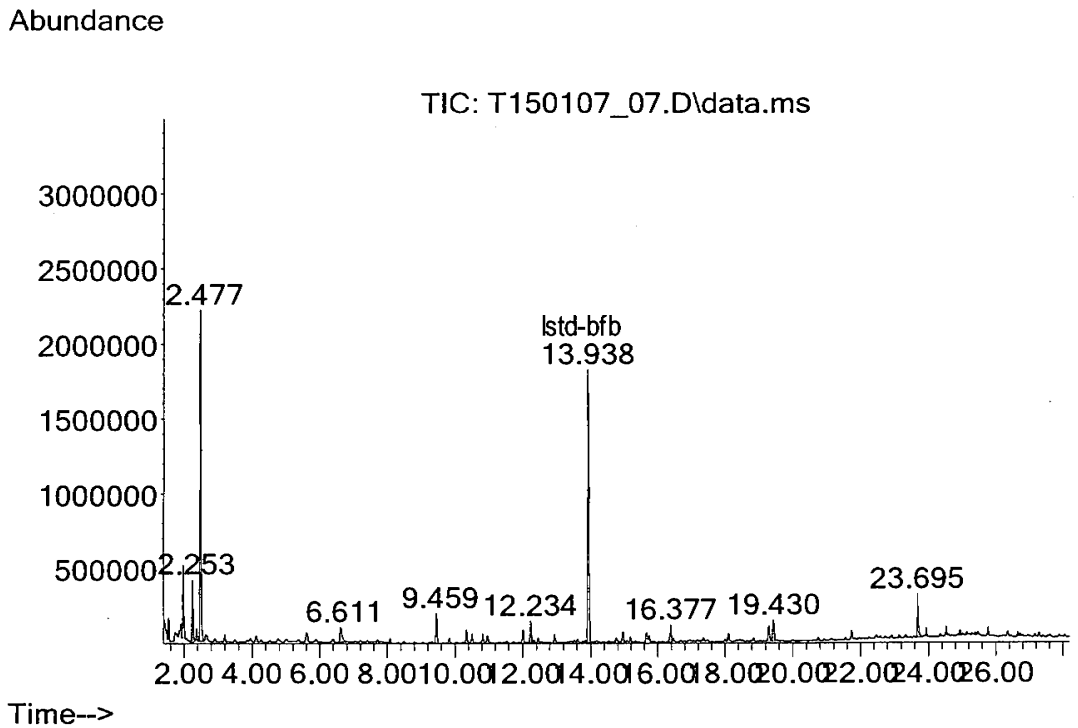


Figure 4. GC/MS Total-ion-Current chromatogram of A10979; TVOC-4; 10th floor-10161; 5.925L

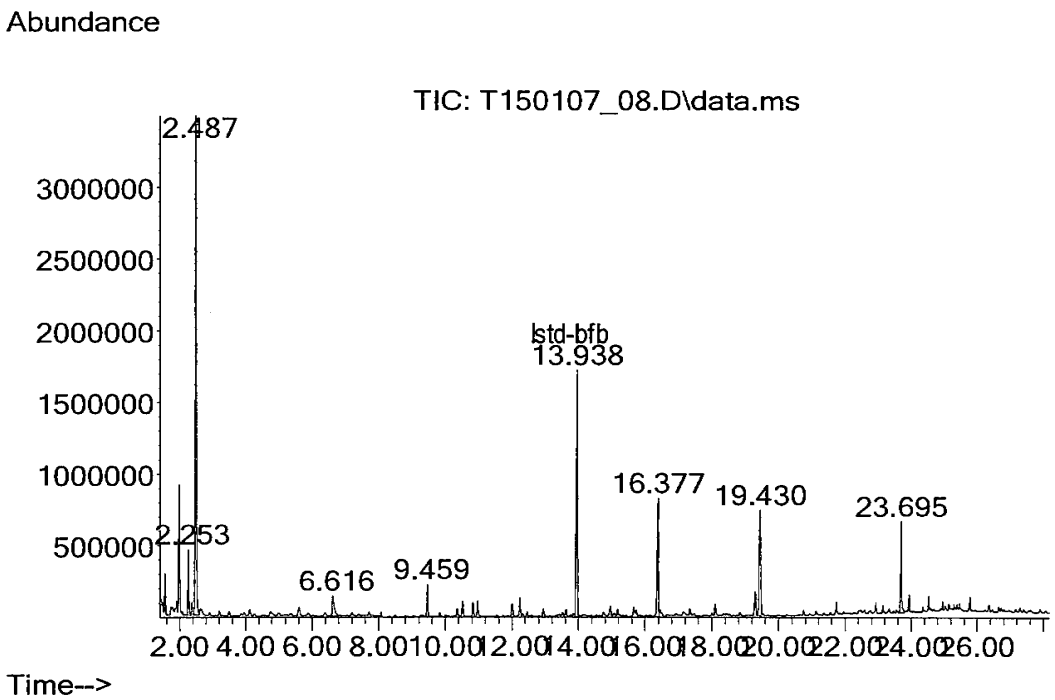
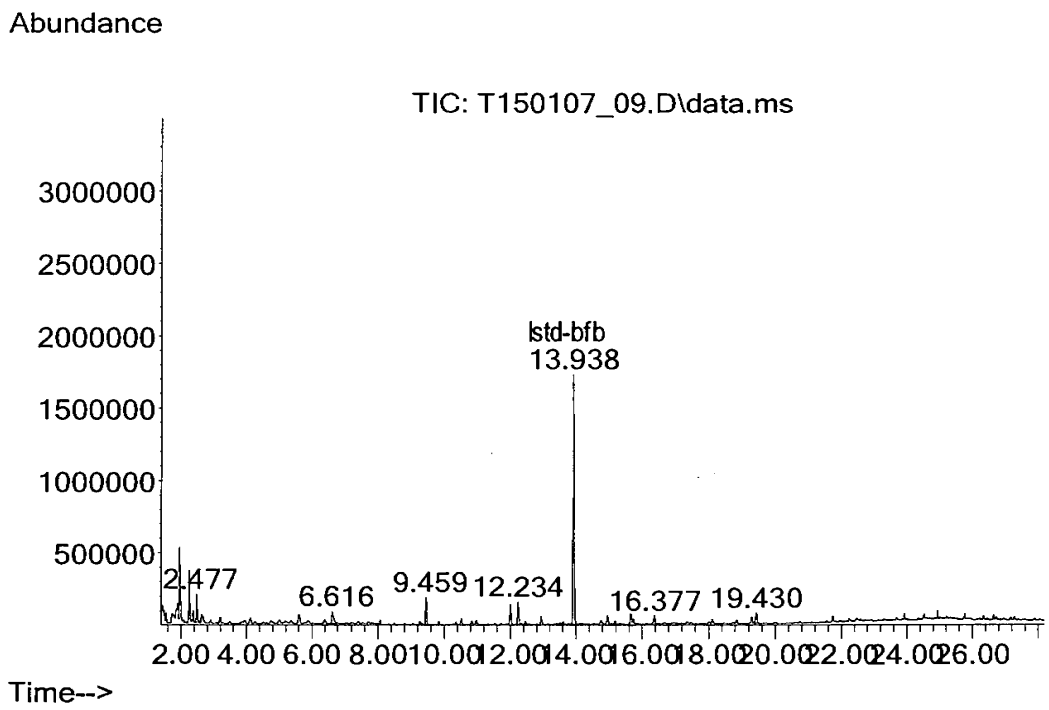


Figure 5. GC/MS Total-ion-Current chromatogram of A10987; TVOC-5; Roof-South Side; 5.977L



END OF REPORT

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CHAIN-OF-CUSTODY RECORD
for ANALYTICAL SERVICES
2009 Update

Client Information*	
Company: US EPA	
Street Address: 75 HAWTHORNE ST	
City/State/Zip Code: SAN FRANCISCO / CA / 94105	
Country:	Contact (for reporting): Jeff Woodlee
Project/Job Name: Renovation JAN 6th	
Project/Job #:	P.O. #:
Phone: 415-760-7599	Fax:
E-mail address: woodlee.jeff@epa.gov	

Received from BAA (check if applicable)	
Multi-sorbent tube samplers	☐
Aldehyde cartridge samplers	☐
Sampling pump(s)	☐
Other materials (specify):	☐

BAA Analysis Code	
Total VOCs by GC/MS total-ion-current method (TIC)	a
Qualitative GC/MS of individual VOCs	b
Qualitative GC/MS plus quantitation of up to 15 individual VOCs	c
Quantitative GC/MS analysis of target list of compounds	d
Quantitative GC/MS Total VOCs plus 4-PCH	e
Quantitative HPLC analysis of formaldehyde	f
Quantitative HPLC analysis of formaldehyde & acetaldehyde	g
Quantitative HPLC analysis of formaldehyde & C2-C9 carbonyls	h
Quantitative HPLC analysis of glutaraldehyde	i
	k
Other (specify):	z

Air Sampling Record

Tube/Cartridge Sampler No.	Collected Sample ID	Date Collected	Collection Minutes	Collected Volume (L)	Sample Location / Description / Remarks	Analysis Code	BAA Remarks
	F-01	1/6/15	58	52.226	10th Floor - 10221	f	
	F-02	↓	54	50.441	10th Floor - 10161	f	
	F-03	↓	50	47.150	12th Floor - 12310	f	
	F-04	↓	56	49.851	12th Floor - 12168	f	
	F-05	↓	60	54.270	Roof - South Side	f	
A. 05958	TVOC-01	↓	58	5.730	12th Floor - 12168	c, a	
A10980	TVOC-02	↓	50	5.180	12th Floor - 12130	c, a	
A10960	TVOC-03	↓	59	6.130	10th Floor - 10221	c, a	
A10979	TVOC-04	↓	60	5.925	10th Floor - 10161	c, a	
A10987	TVOC-05	↓	60	5.977	Roof - South Side	c, a	

Sample(s) Handling

Relinquished By	Received By	Signature	Date	Company
[illegible]			1/6/15	U.S. EPA
	Kaja Tannous	[illegible]	1/6/15	BKA

JC061-021

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CHAIN-OF-CUSTODY RECORD
for ANALYTICAL SERVICES
2009 Update

Client Information*	
Company: US EPA	
Street Address: 75 HAWTHORNE ST	
City/State/Zip Code: SAN FRANCISCO / CA / 94105	
Country:	Contact (for reporting): Jeff Woodlee
Project/Job Name: Renovation JAN 6th	
Project/Job #:	P.O. #:
Phone: 415-760-7599	Fax:
E-mail address: woodlee.Jeff@epa.gov	

Received from BAA (check if applicable)	
Multi-sorbent tube samplers	☐
Aldehyde cartridge samplers	☐
Sampling pump(s)	☐
Other materials (specify):	☐

BAA Analysis Code	
Total VOCs by GC/MS total-ion-current method (TIC)	a
Qualitative GC/MS of individual VOCs	b
Qualitative GC/MS plus quantitation of up to 15 individual VOCs	c
Quantitative GC/MS analysis of target list of compounds	d
Quantitative GC/MS Total VOCs plus 4-PCH	e
Quantitative HPLC analysis of formaldehyde	f
Quantitative HPLC analysis of formaldehyde & acetaldehyde	g
Quantitative HPLC analysis of formaldehyde & C2-C9 carbonyls	h
Quantitative HPLC analysis of glutaraldehyde	i
	k
Other (specify):	z

Air Sampling Record

Tube/Cartridge Sampler No.	Collected Sample ID	Date Collected	Collection Minutes	Collected Volume (L)	Sample Location / Description / Remarks	Analysis Code	BAA Remarks
	F-01	1/6/15	58	52.226	10th Floor - 10221	f	
	F-02		54	50.441	10th Floor - 10161	f	
	F-03		50	47.150	12th Floor - 12310	f	
	F-04		56	49.851	12th Floor - 12168	f	
	F-05		60	54.270	Roof - South Side	f	
M: 059958	TVOC-01		58	5.730	12th Floor - 12168	c, a	
A10980	TVOC-02		50	5.180	12th Floor - 12130	c, a	
A10960	TVOC-03		59	6.130	10th Floor - 10221	c, a	
A10979	TVOC-04		60	5.925	10th Floor - 10161	c, a	
A10987	TVOC-05		60	5.977	Roof - South Side	c, a	

Sample(s) Handling

Relinquished By	Received By	Signature	Date	Company
[signature]			1/6/15	U.S. EPA
	Kaja Tannous	[signature]	1/6/15	BKA

JC061-021

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HCHO\JC026-184_ACC.XLS
Created 01/09/15, rgill
ACC JC061-021

Formaldehyde Analysis
Sequence 150107
Method FORMALDEHYDE.M

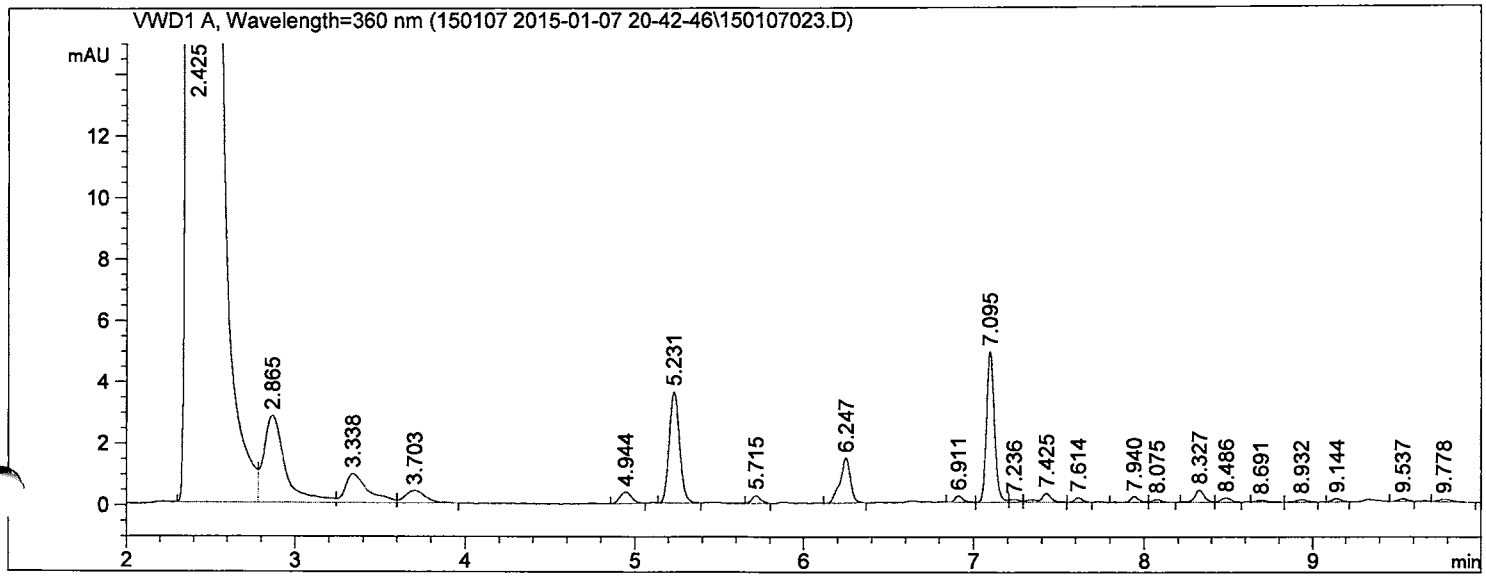
File	Sample ID	Rt min	Meas Conc ng/ul	Meas Mass ng	Volume L	Conc ng/L	Conc ppbv
150107\15010723.D	F-01; 10th Floor-10221	5.231		409	52.226	7.8	6.4
150107\15010725.D	F-02; 10th Floor-10161	5.234		465	50.441	9.2	7.5
150107\15010727.D	F-03; 12th Floor-12310	5.235		398	47.150	8.4	6.9
150107\15010729.D	F-04; 12th Floor-12168	5.234		503	49.851	10.1	8.2
150107\15010731.D	F-05; Roof-South Side	5.236		76	54.270	1.4	1.1

Data File C:\CHEM32\1\DATA\150107 2015-01-07 20-42-46\150107023.D
Sample Name: 061-021-06

==========

Acq. Operator : SYSTEM
Seq. Line : 16
Acq. Instrument : Agilent 1260
Location : Vial 16
Injection Date : 1/8/2015 2:50:19 AM
Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\150107 2015-01-07 20-42-46\FORMALDEHYDE.M
Last changed : 1/7/2015 8:42:47 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 1/1/2015 10:08:35 AM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-021-06; F-01 10th Floor-10221; 0106; 52.226 L



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External Standard Report

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Calib. Data Modified : 10/5/2014 4:08:55 PM
Multiplier : 2.000e3
Dilution : 1.0000
Sample Amount: : 1.00000 [ng] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=360 nm

RetTime [min]	Sig	Type	Area [mAU*s]	Amt/Area	Amount [ng]	Grp	Name
5.231	1	BB	15.24810	1.34109e-2	408.98264		Formaldehyde;50-00-0
6.247	1	BB	6.22469	1.76223e-2	219.38659		Acetaldehyde;75-07-0

Totals : 628.36923

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*** End of Report ***

Data File C:\CHEM32\1\DATA\150107 2015-01-07 20-42-46\150107024.D
Sample Name: 061-021-06

==========

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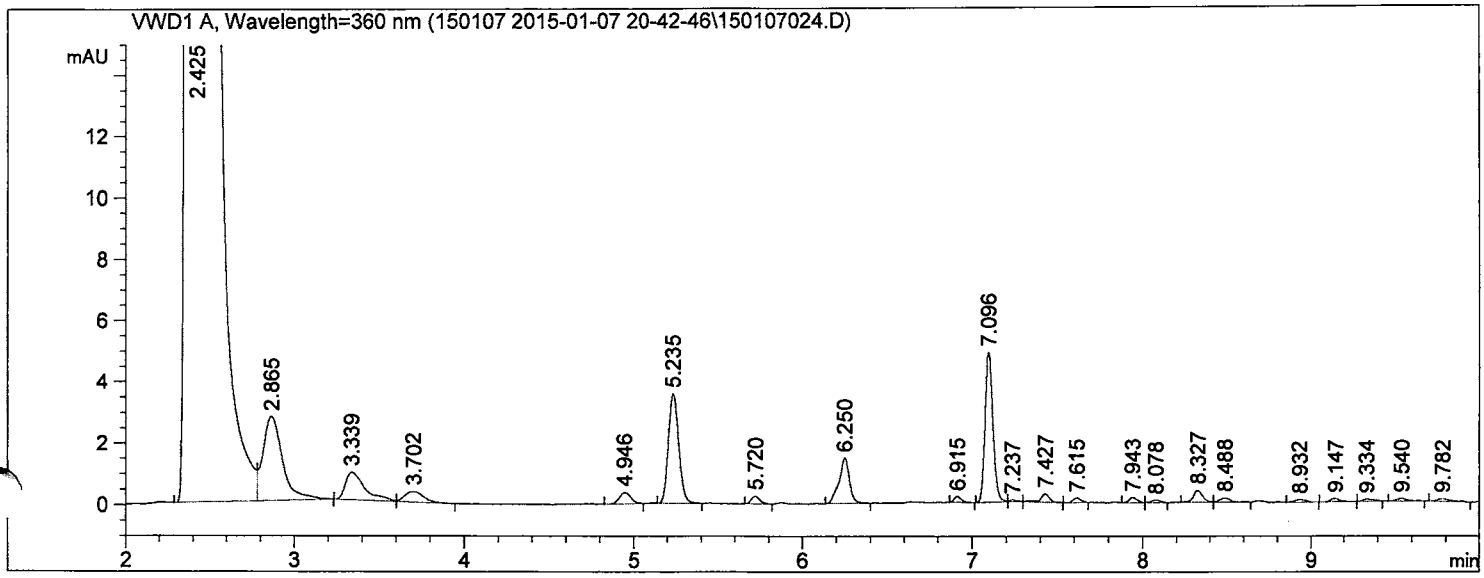
Seq. Line : 16
Acq. Instrument : Agilent 1260
Location : Vial 16
Injection Date : 1/8/2015 3:06:59 AM
Inj : 2
Inj Volume : 2.000 µl

Acq. Method : C:\CHEM32\1\DATA\150107 2015-01-07 20-42-46\FORMALDEHYDE.M
Last changed : 1/7/2015 8:42:47 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 1/1/2015 10:08:35 AM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-021-06; F-01 10th Floor-10221; 0106; 52.226 L



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External Standard Report

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Multiplier : 2.000e3
Dilution : 1.0000
Sample Amount: : 1.00000 [ng] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=360 nm

RetTime [min]	Sig	Type	Area [mAU*s]	Amt/Area	Amount [ng]	Grp	Name
5.235	1	BB	15.14200	1.34109e-2	406.13683		Formaldehyde;50-00-0
6.250	1	BB	6.33213	1.76223e-2	223.17326		Acetaldehyde;75-07-0

Totals : 629.31009

==========

*** End of Report ***

Data File C:\CHEM32\1\DATA\150107 2015-01-07 20-42-46\150107025.D
Sample Name: 061-021-07

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Seq. Line : 17
Acq. Instrument : Agilent 1260
Location : Vial 17
Injection Date : 1/8/2015 3:23:40 AM
Inj : 1
Inj Volume : 2.000 µl
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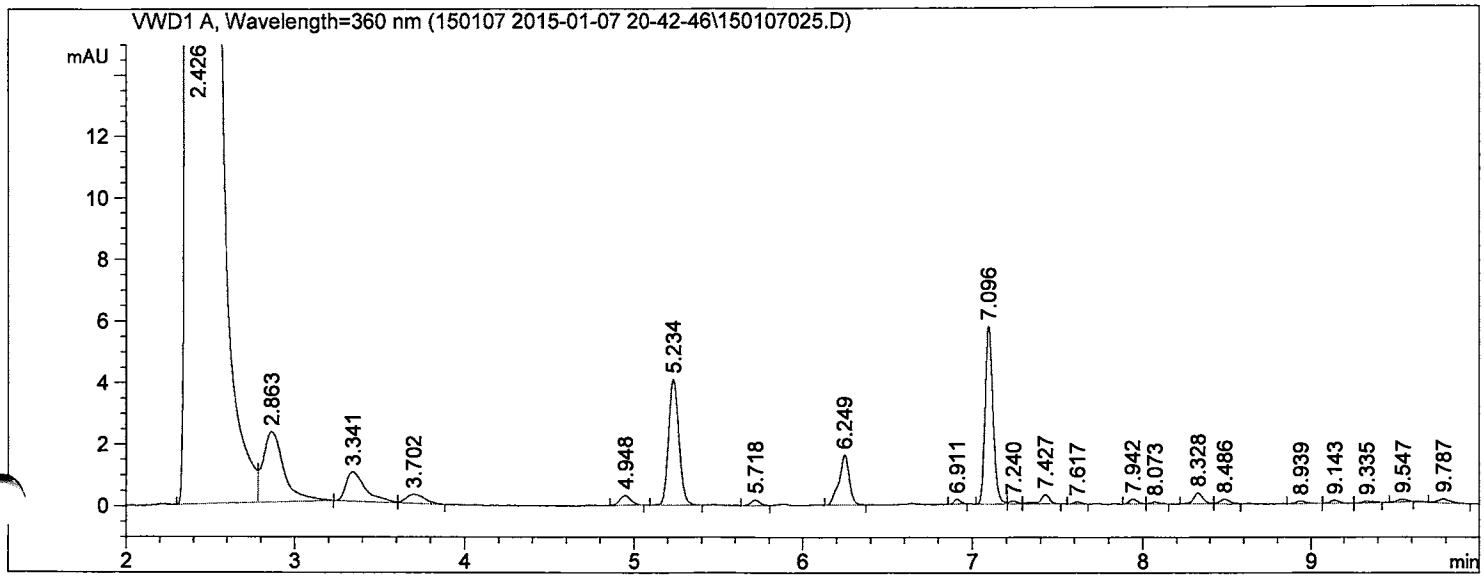
Last changed : 1/7/2015 8:42:47 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 1/1/2015 10:08:35 AM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-021-07; F-02 10th Floor-10161; 0106; 50.441 L



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External Standard Report

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Sorted By : Retention Time
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Multiplier : 2.000e3
Dilution : 1.0000
Sample Amount: : 1.00000 [ng] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=360 nm

RetTime [min]	Sig	Type	Area [mAU*s]	Amt/Area	Amount [ng]	Grp	Name
5.234	1	BB	17.35004	1.34109e-2	465.36064		Formaldehyde;50-00-0
6.249	1	BB	6.84904	1.76223e-2	241.39174		Acetaldehyde;75-07-0

Totals : 706.75238

==========

*** End of Report ***

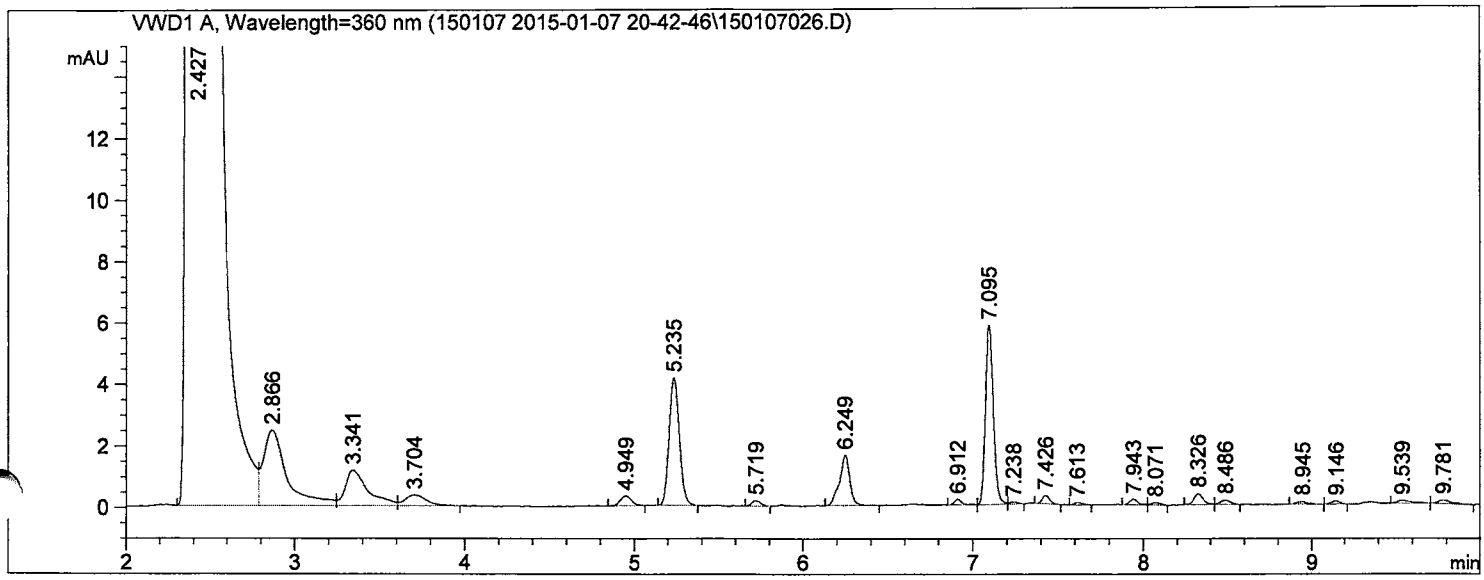
Data File C:\CHEM32\1\DATA\150107 2015-01-07 20-42-46\150107026.D
Sample Name: 061-021-07

==========

Acq. Operator : SYSTEM
Seq. Line : 17
Acq. Instrument : Agilent 1260
Location : Vial 17
Injection Date : 1/8/2015 3:40:20 AM
Inj : 2
Inj Volume : 2.000 µl

Acq. Method : C:\CHEM32\1\DATA\150107 2015-01-07 20-42-46\FORMALDEHYDE.M
Last changed : 1/7/2015 8:42:47 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 1/1/2015 10:08:35 AM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-021-07; F-02 10th Floor-10161; 0106; 50.441 L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 10/5/2014 4:08:55 PM
Multiplier : 2.000e3
Dilution : 1.0000
Sample Amount: : 1.00000 [ng] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=360 nm

RetTime [min]	Sig	Type	Area [mAU*s]	Amt/Area	Amount [ng]	Grp	Name
5.235	1	BB	17.39965	1.34109e-2	466.69128		Formaldehyde;50-00-0
6.249	1	BB	7.00319	1.76223e-2	246.82437		Acetaldehyde;75-07-0

Totals : 713.51565

==========

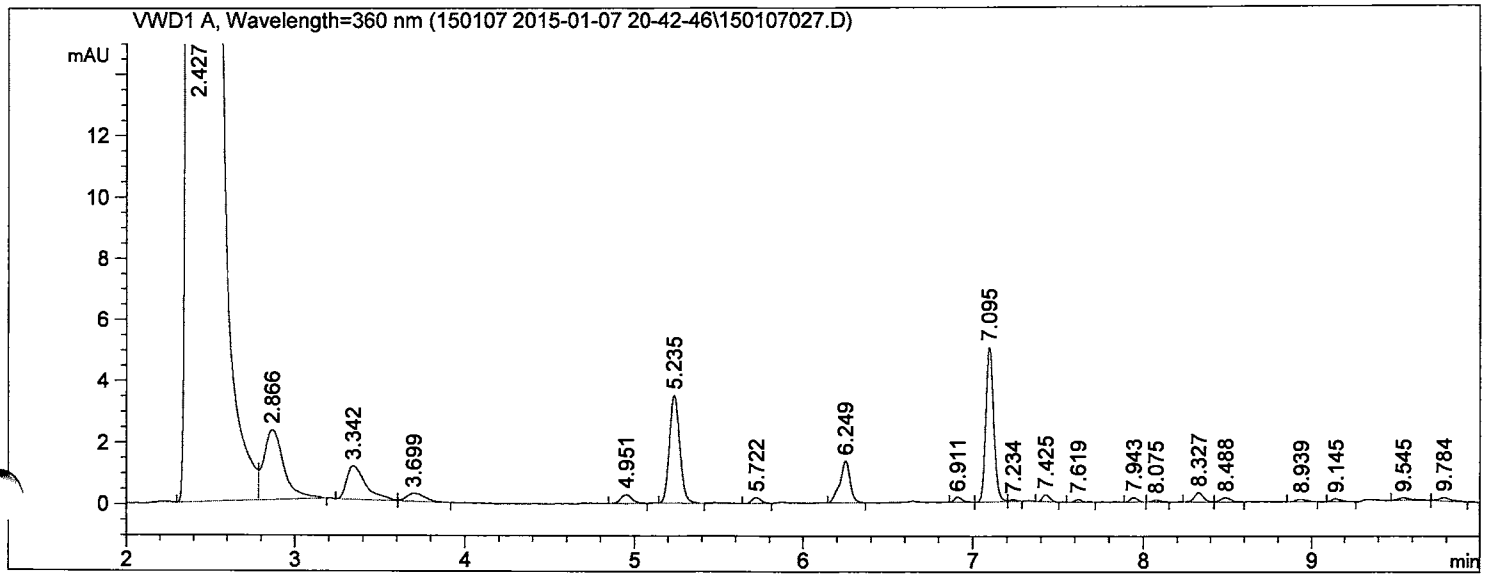
*** End of Report ***

Data File C:\CHEM32\1\DATA\150107 2015-01-07 20-42-46\150107027.D
Sample Name: 061-021-08

==========

Acq. Operator : SYSTEM
Seq. Line : 18
Acq. Instrument : Agilent 1260
Location : Vial 18
Injection Date : 1/8/2015 3:57:00 AM
Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\150107 2015-01-07 20-42-46\FORMALDEHYDE.M
Last changed : 1/7/2015 8:42:47 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 1/1/2015 10:08:35 AM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-021-08; F-03 12th Floor-12310; 0106; 47.15 L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 10/5/2014 4:08:55 PM
Multiplier : 2.000e3
Dilution : 1.0000
Sample Amount: : 1.00000 [ng] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=360 nm

RetTime [min]	Sig	Type	Area [mAU*s]	Amt/Area	Amount [ng]	Grp	Name
5.235	1	BB	14.84652	1.34109e-2	398.21149		Formaldehyde;50-00-0
6.249	1	BB	5.73236	1.76223e-2	202.03467		Acetaldehyde;75-07-0

Totals : 600.24616

==========

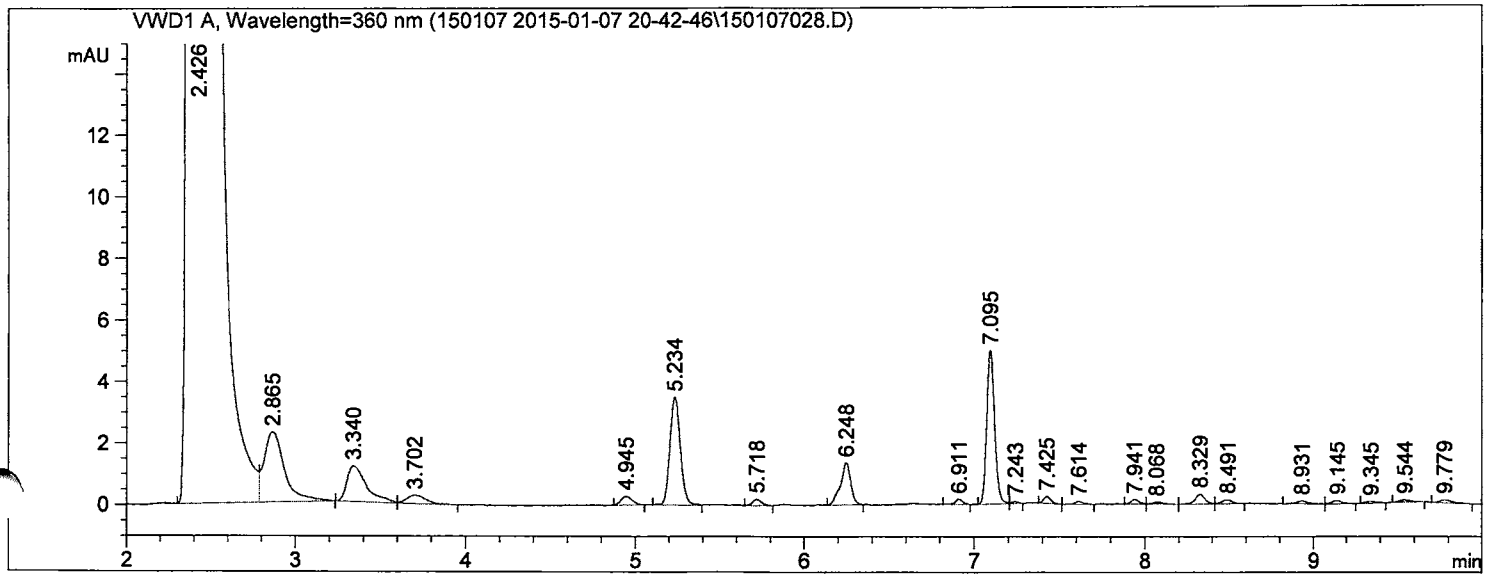
*** End of Report ***

Data File C:\CHEM32\1\DATA\150107 2015-01-07 20-42-46\150107028.D
Sample Name: 061-021-08

==========

Acq. Operator : SYSTEM
Seq. Line : 18
Acq. Instrument : Agilent 1260
Location : Vial 18
Injection Date : 1/8/2015 4:13:40 AM
Inj : 2
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\150107 2015-01-07 20-42-46\FORMALDEHYDE.M
Last changed : 1/7/2015 8:42:47 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 1/1/2015 10:08:35 AM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-021-08; F-03 12th Floor-12310; 0106; 47.15 L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 10/5/2014 4:08:55 PM
Multiplier : 2.000e3
Dilution : 1.0000
Sample Amount: : 1.00000 [ng] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=360 nm

RetTime [min]	Sig	Type	Area [mAU*s]	Amt/Area	Amount [ng]	Grp	Name
5.234	1	BB	14.94443	1.34109e-2	400.83754		Formaldehyde;50-00-0
6.248	1	BB	5.75868	1.76223e-2	202.96216		Acetaldehyde;75-07-0

Totals : 603.79970

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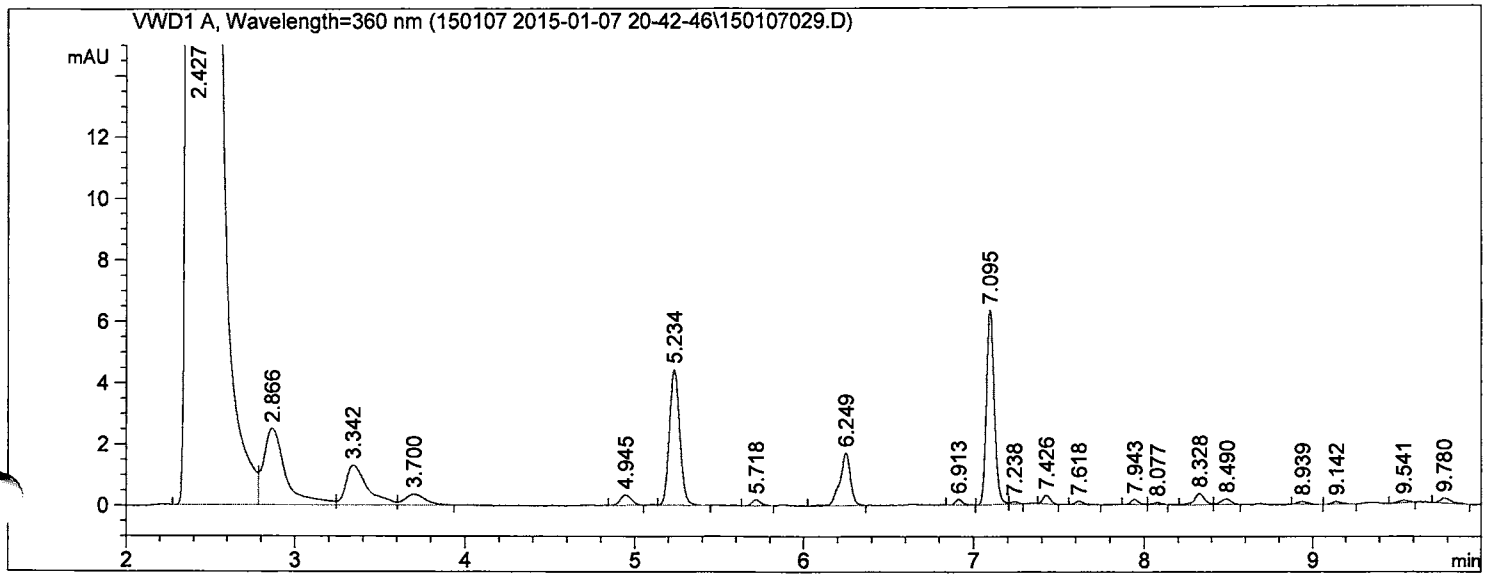
*** End of Report ***

Data File C:\CHEM32\1\DATA\150107 2015-01-07 20-42-46\150107029.D
Sample Name: Q61-021-09

==========

Acq. Operator : SYSTEM
Seq. Line : 19
Acq. Instrument : Agilent 1260
Location : Vial 19
Injection Date : 1/8/2015 4:30:22 AM
Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\150107 2015-01-07 20-42-46\FORMALDEHYDE.M
Last changed : 1/7/2015 8:42:47 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 1/1/2015 10:08:35 AM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-021-09; F-04 12th Floor-12168; 0106; 49.851 L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 10/5/2014 4:08:55 PM
Multiplier : 2.000e3
Dilution : 1.0000
Sample Amount: : 1.00000 [ng] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=360 nm

RetTime [min]	Sig	Type	Area [mAU*s]	Amt/Area	Amount [ng]	Grp	Name
5.234	1	BB	18.75198	1.34109e-2	502.96324		Formaldehyde;50-00-0
6.249	1	BB	7.59644	1.76223e-2	267.73355		Acetaldehyde;75-07-0

Totals : 770.69679

==========

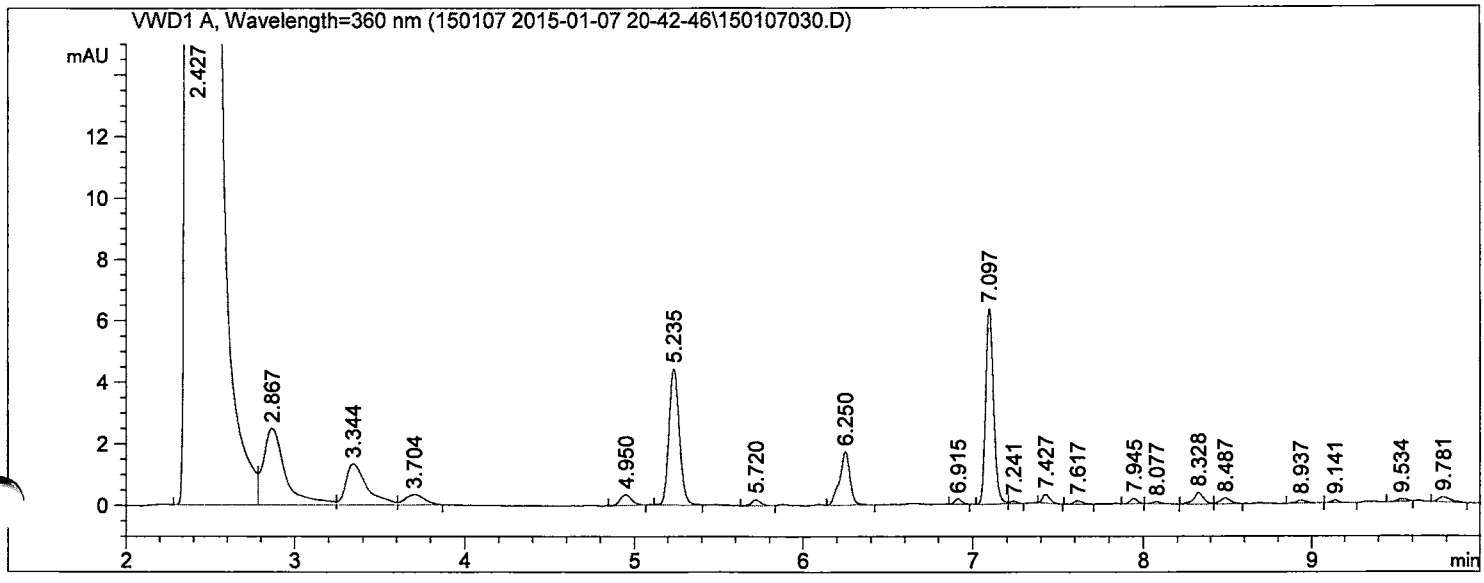
*** End of Report ***

Data File C:\CHEM32\1\DATA\150107 2015-01-07 20-42-46\150107030.D
Sample Name: 061-021-09

==========

Acq. Operator : SYSTEM Seq. Line : 19
Acq. Instrument : Agilent 1260 Location : Vial 19
Injection Date : 1/8/2015 4:47:03 AM Inj : 2
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\150107 2015-01-07 20-42-46\FORMALDEHYDE.M
Last changed : 1/7/2015 8:42:47 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 1/1/2015 10:08:35 AM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-021-09; F-04 12th Floor-12168; 0106; 49.851 L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 10/5/2014 4:08:55 PM
Multiplier : 2.000e3
Dilution : 1.0000
Sample Amount: : 1.00000 [ng] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=360 nm

RetTime [min]	Sig	Type	Area [mAU*s]	Amt/Area	Amount [ng]	Grp	Name
5.235	1	BB	18.75256	1.34109e-2	502.97884		Formaldehyde;50-00-0
6.250	1	BB	7.36270	1.76223e-2	259.49537		Acetaldehyde;75-07-0

Totals : 762.47421

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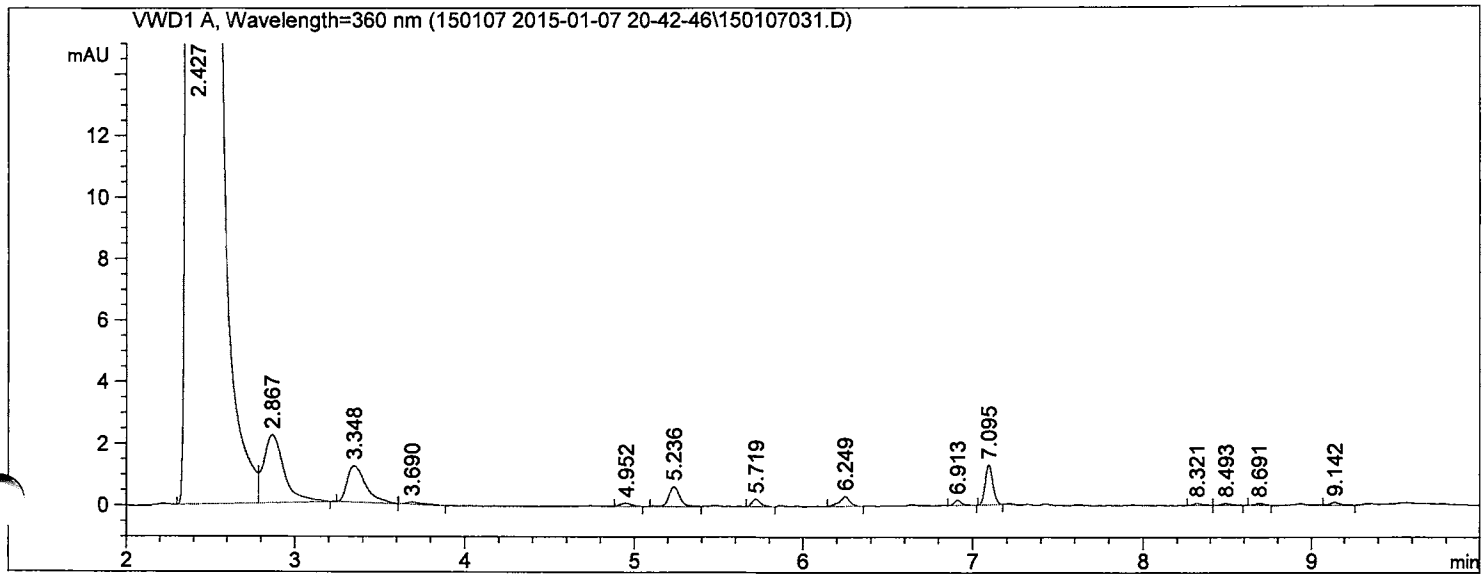
*** End of Report ***

Data File C:\CHEM32\1\DATA\150107 2015-01-07 20-42-46\150107031.D
Sample Name: 061-021-10

==========

Acq. Operator : SYSTEM
Seq. Line : 20
Acq. Instrument : Agilent 1260
Location : Vial 20
Injection Date : 1/8/2015 5:03:45 AM
Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\150107 2015-01-07 20-42-46\FORMALDEHYDE.M
Last changed : 1/7/2015 8:42:47 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 1/1/2015 10:08:35 AM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-021-10; F-05 Roof-South Side; 0106; 54.27 L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 10/5/2014 4:08:55 PM
Multiplier : 2.000e3
Dilution : 1.0000
Sample Amount: : 1.00000 [ng] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=360 nm

RetTime [min]	Sig	Type	Area [mAU*s]	Amt/Area	Amount [ng]	Grp	Name
5.236	1	BB	2.82056	1.34109e-2	75.65281		Formaldehyde;50-00-0
6.249	1	BB	1.34711	1.76223e-2	47.47836		Acetaldehyde;75-07-0

Totals : 123.13117

==========

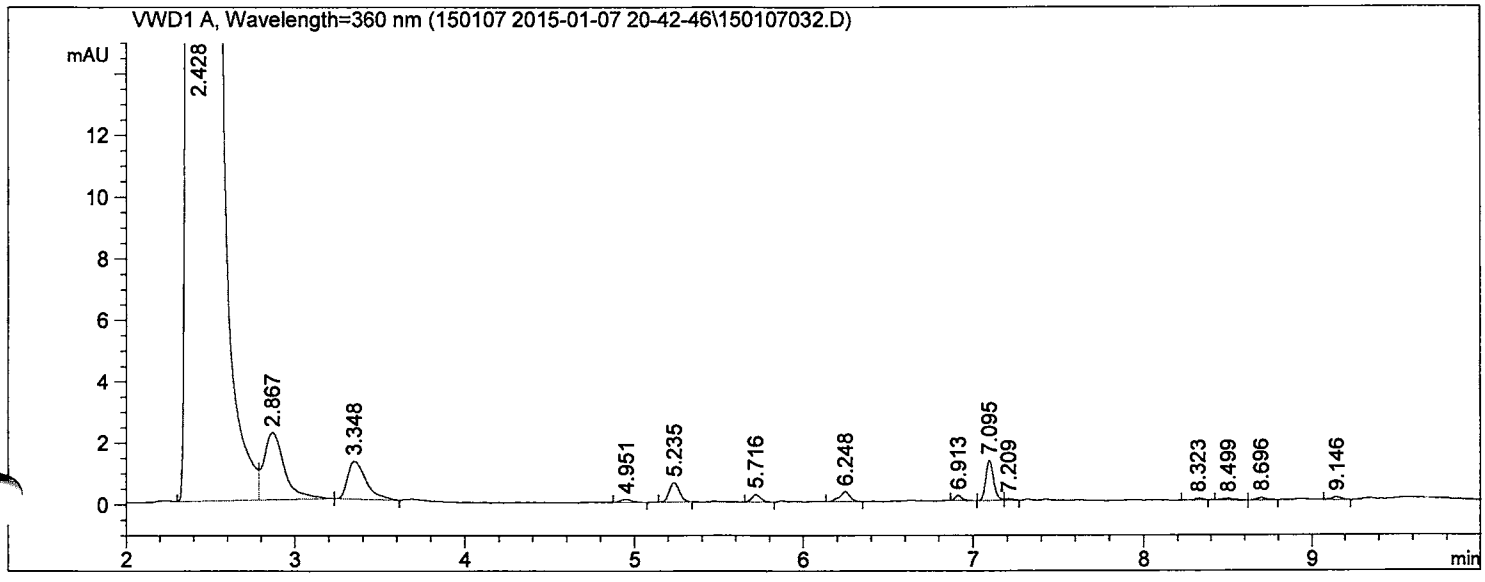
*** End of Report ***

Data File C:\CHEM32\1\DATA\150107 2015-01-07 20-42-46\150107032.D
Sample Name: 061-021-10

==========

Acq. Operator : SYSTEM Seq. Line : 20
Acq. Instrument : Agilent 1260 Location : Vial 20
Injection Date : 1/8/2015 5:20:26 AM Inj : 2
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\150107 2015-01-07 20-42-46\FORMALDEHYDE.M
Last changed : 1/7/2015 8:42:47 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 1/1/2015 10:08:35 AM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-021-10; F-05 Roof-South Side; 0106; 54.27 L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 10/5/2014 4:08:55 PM
Multiplier : 2.000e3
Dilution : 1.0000
Sample Amount: : 1.00000 [ng] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=360 nm

RetTime [min]	Sig	Type	Area [mAU*s]	Amt/Area	Amount [ng]	Grp	Name
5.235	1	BB	2.61963	1.34109e-2	70.26340		Formaldehyde;50-00-0
6.248	1	BB	1.36299	1.76223e-2	48.03793		Acetaldehyde;75-07-0

Totals : 118.30132

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*** End of Report ***

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2015\Jan\
Data File : T150107_05.D
Acq On : 7 Jan 2015 5:02 pm
Operator : rgill
Sample : 061-021-01_US EPA; 12th floor-12168; 5.730L
Misc : Mi59958; TVOC-01; 107ngBFB;10:1 split
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 08 11:58:49 2015
Quant Method : M:\5975 Methods\Y2K14\Desorb_Merged_2014.M
Quant Title : AB95168
QLast Update : Fri Aug 09 12:40:29 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.938	95	896205	107.00 ng	# 0.00
22) 1-Bromo-4-flourobenzen...	13.938	95	896205	107.00 ng	# 0.00
35) 1-Bromo-4-flourobenzen...	13.938	95	896205	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.938	95	896205	107.00 ng	# 0.00
62) 1-Bromo-4-flourobenzen...	13.938	95	896205	107.00 ng	# 0.00
83) 1-Bromo-4-flourobenzen...	13.938	95	896205	107.00 ng	# 0.00
Target Compounds					Qvalue
2) Trichloroethene;79-01-6	0.000		0	N.D.	
3) Methyl methacrylate; 8...	0.000		0	N.D.	
4) Toluene; 108-88-3	0.000		0	N.D. d	
5) Tetrachloroethene; 127...	0.000		0	N.D.	
6) N,N-Dimethylformamide;...	0.000		0	N.D.	
7) Ethylbenzene; 100-41-4	0.000		0	N.D. d	
8) Xylene {1}; 108-38-3	0.000		0	N.D. d	
9) Xylene {2}; 95-47-6	0.000		0	N.D. d	
10) Xylene - TOTAL; 1330-20-7	0.000		0	N.D. d	
11) Styrene; 100-42-5	0.000		0	N.D.	
12) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
13) Octanal; 124-13-0	0.000		0	N.D. d	
14) Phenol; 108-95-2	0.000		0	N.D. d	
15) 1-Phenylethanone; 98-86-2	0.000		0	N.D.	
16) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
17) Nonanal; 124-19-6	19.294	41	37648	15.88 ng	# 79
18) 2-Ethylhexanoic acid; ...	0.000		0	N.D.	
19) Naphthalene; 91-20-3	0.000		0	N.D.	
20) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
21) Caprolactam; 105-60-2	23.695	113	168234	75.83 ng	91
23) 1-Methoxy-2-propanol; ...	0.000		0	N.D. d	
24) Ethylene glycol; 107-21-1	9.995	31	69868	32.62 ng	# 41
25) Butyl acetate; 123-86-4	0.000		0	N.D. d	
26) Propylene glycol; 57-55-6	10.968	45	195167	32.24 ng	# 71
27) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
28) Hexanoic acid; 142-62-1	0.000		0	N.D. d	
29) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
30) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D.	
31) Dodecanol; 112-53-8	0.000		0	N.D.	
32) Butylated hydroxytolue...	0.000		0	N.D.	
33) Texanol 1; 25265-77-4-IS1	0.000		0	N.D.	
34) Texanol 3; 25265-77-4-IS3	0.000		0	N.D. d	
36) n-Pentane; 109-66-0	0.000		0	N.D. d	
37) Ethanol; 64-17-5	1.971	31	616933	139.99 ng	96
38) 2-Propanone(acetone); ...	2.253	43	630628	73.22 ng	92
39) 2-Propanol; 67-63-0	2.370	45	187079	19.10 ng	# 97
40) Carbon disulfide; 75-15-0	0.000		0	N.D.	
41) Dichloromethane; 75-09-2	0.000		0	N.D. d	
42) n-Hexane; 110-54-3	0.000		0	N.D. d	
43) Vinyl acetate; 108-05-4	0.000		0	N.D. d	
44) 2-Butanone; 78-93-3	0.000		0	N.D. d	

45)	Ethyl acetate; 141-78-6	0.000		0	N.D.	d	
46)	Cyclohexane; 110-82-7	0.000		0	N.D.		
47)	Benzene; 71-43-2	0.000		0	N.D.	d	
48)	2-Methyl-1-propanol; 7...	0.000		0	N.D.		
49)	1-Butanol; 71-36-3	0.000		0	N.D.		
50)	1,4-Dioxane; 123-91-1	0.000		0	N.D.		
51)	Epichlorohydrin; 106-89-8	0.000		0	N.D.		
53)	n-Butanal;123-72-8	0.000		0	N.D.		
54)	Pentanal; 110-62-3	0.000		0	N.D.		
55)	4-Methyl-2-pentanone; ...	0.000		0	N.D.		
56)	Hexanal; 66-25-1	0.000		0	N.D.	d	
57)	2-Furancarboxaldehyde;...	0.000		0	N.D.		
58)	4-Heptanone; 123-19-3	0.000		0	N.D.		
59)	2-Heptanone; 110-43-0	0.000		0	N.D.		
60)	Heptanal; 111-71-7	0.000		0	N.D.		
61)	Benzaldehyde; 100-52-7	0.000		0	N.D.	d	
63)	Octane; 111-65-9	0.000		0	N.D.	d	
64)	n-Nonane; 111-84-2	0.000		0	N.D.		
65)	alpha-Pinene; 7785-70-8	0.000		0	N.D.	d	
66)	Cyclohexanone; 108-94-1	0.000		0	N.D.		
67)	Camphene; 5794-03-6	0.000		0	N.D.	d	
68)	beta-Pinene; 19902-08-0	0.000		0	N.D.		
69)	n-Decane; 124-18-5	0.000		0	N.D.	d	
70)	3-Carene; 13466-78-9	0.000		0	N.D.		
71)	d-Limonene; 5989-27-5	16.373	68	361848	65.23	ng	# 90
72)	p-Cymene; 99-87-6	0.000		0	N.D.		
73)	1-Undecene; 821-95-4	0.000		0	N.D.		
74)	n-Undecane; 1120-21-4	0.000		0	N.D.		
75)	n-Dodecane; 112-40-3	0.000		0	N.D.		
76)	Dodecamethylpentasilox...	0.000		0	N.D.		
77)	n-Tridecane; 629-50-5	0.000		0	N.D.		
78)	Benzothiazole; 95-16-9	0.000		0	N.D.		
79)	n-Tetradecane; 629-59-4	0.000		0	N.D.	d	
80)	n-Pentadecane; 629-62-9	0.000		0	N.D.		
81)	n-Hexadecane; 544-76-3	0.000		0	N.D.	d	
82)	n-Heptadecane; 629-78-7	0.000		0	N.D.		
84)	Propyl acetate; 109-60-4	0.000		0	N.D.		
85)	Isobutyl acetate;110-19-0	0.000		0	N.D.	d	
86)	PGMEA; 108-65-6	0.000		0	N.D.		
87)	1,3-Dichloro-2-propano...	0.000		0	N.D.		
88)	DPGME isomer 1; 34590-...	0.000		0	N.D.		
89)	DPGME isomer 2; 34590-...	0.000		0	N.D.		
90)	DPGME isomer 3; 34590-...	0.000		0	N.D.		
91)	1,1'-Oxybis-2-propanol...	0.000		0	N.D.		
92)	Benzenemethanol; 100-51-6	0.000		0	N.D.		
93)	Propylene carbonate; 1...	0.000		0	N.D.		
94)	2,2'-Oxybis(1-propanol...	0.000		0	N.D.		
95)	2-(2-Hydroxypropoxy)1-...	0.000		0	N.D.		
96)	Octanoic acid; 124-07-2	0.000		0	N.D.		
97)	alpha-Terpineol; 10482...	0.000		0	N.D.		
98)	1-Dodecanamine, N,N-di...	0.000		0	N.D.		
99)	3-Methyl-1,1'-biphenyl...	0.000		0	N.D.		
100)	TXIB; 6846-50-0	0.000		0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Desorb_Merged_2014.M Thu Jan 08 11:58:53 2015

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2015\Jan\
Data File : T150107_06.D
Acq On : 7 Jan 2015 5:48 pm
Operator : rgill
Sample : 061-021-02_US EPA; 12th floor-12130; 5.180L
Misc : A10980; TVOC-02; 107ngBFB;10:1 split
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 08 12:59:37 2015
Quant Method : M:\5975 Methods\Y2K14\Desorb_Merged_2014.M
Quant Title : AB95168
QLast Update : Fri Aug 09 12:40:29 2013
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards							
1)	1-Bromo-4-flourobenzen...	13.938	95	843940	107.00 ng	#	0.00
22)	1-Bromo-4-flourobenzen...	13.938	95	843940	107.00 ng	#	0.00
35)	1-Bromo-4-flourobenzen...	13.938	95	843940	107.00 ng	#	0.00
52)	1-Bromo-4-flourobenzen...	13.938	95	843940	107.00 ng	#	0.00
62)	1-Bromo-4-flourobenzen...	13.938	95	843940	107.00 ng	#	0.00
83)	1-Bromo-4-flourobenzen...	13.938	95	843940	107.00 ng	#	0.00
Target Compounds							Qvalue
2)	Trichloroethene;79-01-6	0.000		0	N.D.		
3)	Methyl methacrylate; 8...	0.000		0	N.D.		
4)	Toluene; 108-88-3	9.459	91	163820m	10.24 ng		
5)	Tetrachloroethene; 127...	0.000		0	N.D.		
6)	N,N-Dimethylformamide;...	0.000		0	N.D.		
7)	Ethylbenzene; 100-41-4	0.000		0	N.D. d		
8)	Xylene {1}; 108-38-3	0.000		0	N.D. d		
9)	Xylene {2}; 95-47-6	0.000		0	N.D. d		
10)	Xylene - TOTAL; 1330-20-7	0.000		0	N.D. d		
11)	Styrene; 100-42-5	0.000		0	N.D.		
12)	1,2,4-Trimethylbenzene...	0.000		0	N.D. d		
13)	Octanal; 124-13-0	0.000		0	N.D. d		
14)	Phenol; 108-95-2	0.000		0	N.D. d		
15)	1-Phenylethanone; 98-86-2	0.000		0	N.D.		
16)	1-Methyl-2-pyrrolidino...	0.000		0	N.D.		
17)	Nonanal; 124-19-6	19.294	41	37573	16.83 ng	#	80
18)	2-Ethylhexanoic acid; ...	0.000		0	N.D.		
19)	Naphthalene; 91-20-3	0.000		0	N.D.		
20)	4-Phenylcyclohexene; 4...	0.000		0	N.D.		
21)	Caprolactam; 105-60-2	0.000		0	N.D. d		
23)	1-Methoxy-2-propanol; ...	0.000		0	N.D. d		
24)	Ethylene glycol; 107-21-1	0.000		0	N.D. d		
25)	Butyl acetate; 123-86-4	0.000		0	N.D. d		
26)	Propylene glycol; 57-55-6	10.968	45	245836	43.12 ng	#	71
27)	2-Butoxyethanol; 111-76-2	0.000		0	N.D. d		
28)	Hexanoic acid; 142-62-1	0.000		0	N.D.		
29)	2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d		
30)	2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d		
31)	Dodecanol; 112-53-8	0.000		0	N.D.		
32)	Butylated hydroxytolue...	0.000		0	N.D.		
33)	Texanol 1; 25265-77-4-IS1	0.000		0	N.D.		
34)	Texanol 3; 25265-77-4-IS3	0.000		0	N.D. d		
36)	n-Pentane; 109-66-0	0.000		0	N.D. d		
37)	Ethanol; 64-17-5	1.971	31	623494	150.24 ng		95
38)	2-Propanone(acetone); ...	2.253	43	642837	79.26 ng		91
39)	2-Propanol; 67-63-0	2.370	45	120611	13.07 ng	#	92
40)	Carbon disulfide; 75-15-0	0.000		0	N.D.		
41)	Dichloromethane; 75-09-2	0.000		0	N.D.		
42)	n-Hexane; 110-54-3	0.000		0	N.D. d		
43)	Vinyl acetate; 108-05-4	0.000		0	N.D.		
44)	2-Butanone; 78-93-3	0.000		0	N.D. d		

45)	Ethyl acetate; 141-78-6	0.000	0	N.D. d
46)	Cyclohexane; 110-82-7	0.000	0	N.D.
47)	Benzene; 71-43-2	0.000	0	N.D. d
48)	2-Methyl-1-propanol; 7...	0.000	0	N.D.
49)	1-Butanol; 71-36-3	0.000	0	N.D.
50)	1,4-Dioxane; 123-91-1	0.000	0	N.D.
51)	Epichlorohydrin; 106-89-8	0.000	0	N.D.
53)	n-Butanal;123-72-8	0.000	0	N.D.
54)	Pentanal; 110-62-3	0.000	0	N.D.
55)	4-Methyl-2-pentanone; ...	0.000	0	N.D.
56)	Hexanal; 66-25-1	0.000	0	N.D. d
57)	2-Furancarboxaldehyde;...	0.000	0	N.D.
58)	4-Heptanone; 123-19-3	0.000	0	N.D.
59)	2-Heptanone; 110-43-0	0.000	0	N.D.
60)	Heptanal; 111-71-7	0.000	0	N.D.
61)	Benzaldehyde; 100-52-7	0.000	0	N.D. d
63)	Octane; 111-65-9	0.000	0	N.D.
64)	n-Nonane; 111-84-2	0.000	0	N.D.
65)	alpha-Pinene; 7785-70-8	0.000	0	N.D. d
66)	Cyclohexanone; 108-94-1	0.000	0	N.D.
67)	Camphene; 5794-03-6	0.000	0	N.D. d
68)	beta-Pinene; 19902-08-0	0.000	0	N.D.
69)	n-Decane; 124-18-5	0.000	0	N.D. d
70)	3-Carene; 13466-78-9	0.000	0	N.D.
71)	d-Limonene; 5989-27-5	0.000	0	N.D. d
72)	p-Cymene; 99-87-6	0.000	0	N.D.
73)	1-Undecene; 821-95-4	0.000	0	N.D.
74)	n-Undecane; 1120-21-4	0.000	0	N.D.
75)	n-Dodecane; 112-40-3	0.000	0	N.D.
76)	Dodecamethylpentasilox...	0.000	0	N.D.
77)	n-Tridecane; 629-50-5	0.000	0	N.D.
78)	Benzothiazole; 95-16-9	0.000	0	N.D.
79)	n-Tetradecane; 629-59-4	0.000	0	N.D. d
80)	n-Pentadecane; 629-62-9	0.000	0	N.D. d
81)	n-Hexadecane; 544-76-3	0.000	0	N.D. d
82)	n-Heptadecane; 629-78-7	0.000	0	N.D.
84)	Propyl acetate; 109-60-4	0.000	0	N.D.
85)	Isobutyl acetate;110-19-0	0.000	0	N.D.
86)	PGMEA; 108-65-6	0.000	0	N.D.
87)	1,3-Dichloro-2-propano...	0.000	0	N.D.
88)	DPGME isomer 1; 34590-...	0.000	0	N.D.
89)	DPGME isomer 2; 34590-...	0.000	0	N.D.
90)	DPGME isomer 3; 34590-...	0.000	0	N.D.
91)	1,1'-Oxybis-2-propanol...	0.000	0	N.D.
92)	Benzenemethanol; 100-51-6	0.000	0	N.D.
93)	Propylene carbonate; 1...	0.000	0	N.D.
94)	2,2'-Oxybis(1-propanol...	0.000	0	N.D.
95)	2-(2-Hydroxypropoxy)1-...	0.000	0	N.D.
96)	Octanoic acid; 124-07-2	0.000	0	N.D.
97)	alpha-Terpineol; 10482...	0.000	0	N.D.
98)	1-Dodecanamine, N,N-di...	0.000	0	N.D.
99)	3-Methyl-1,1'-biphenyl...	0.000	0	N.D.
100)	TXIB; 6846-50-0	0.000	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Desorb_Merged_2014.M Thu Jan 08 13:04:06 2015

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2015\Jan\
Data File : T150107_07.D
Acq On : 7 Jan 2015 6:35 pm
Operator : rgill
Sample : 061-021-03_US EPA; 10th floor-10221; 6.130L
Misc : A10960; TVOC-03; 107ngBFB;10:1 split
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 08 13:32:31 2015
Quant Method : M:\5975 Methods\Y2K14\Desorb_Merged_2014.M
Quant Title : AB95168
QLast Update : Fri Aug 09 12:40:29 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.938	95	901145	107.00 ng	# 0.00
22) 1-Bromo-4-flourobenzen...	13.938	95	901145	107.00 ng	# 0.00
35) 1-Bromo-4-flourobenzen...	13.938	95	901145	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.938	95	901145	107.00 ng	# 0.00
62) 1-Bromo-4-flourobenzen...	13.938	95	901145	107.00 ng	# 0.00
83) 1-Bromo-4-flourobenzen...	13.938	95	901145	107.00 ng	# 0.00
Target Compounds					Qvalue
2) Trichloroethene;79-01-6	0.000		0	N.D.	
3) Methyl methacrylate; 8...	0.000		0	N.D.	
4) Toluene; 108-88-3	0.000		0	N.D. d	
5) Tetrachloroethene; 127...	0.000		0	N.D. d	
6) N,N-Dimethylformamide;...	0.000		0	N.D.	
7) Ethylbenzene; 100-41-4	0.000		0	N.D. d	
8) Xylene {1}; 108-38-3	0.000		0	N.D. d	
9) Xylene {2}; 95-47-6	0.000		0	N.D. d	
10) Xylene - TOTAL; 1330-20-7	0.000		0	N.D. d	
11) Styrene; 100-42-5	0.000		0	N.D.	
12) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
13) Octanal; 124-13-0	0.000		0	N.D. d	
14) Phenol; 108-95-2	0.000		0	N.D. d	
15) 1-Phenylethanone; 98-86-2	0.000		0	N.D. d	
16) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
17) Nonanal; 124-19-6	19.298	41	28824	12.09 ng	# 81
18) 2-Ethylhexanoic acid; ...	0.000		0	N.D.	
19) Naphthalene; 91-20-3	0.000		0	N.D.	
20) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
21) Caprolactam; 105-60-2	23.695	113	76010	34.07 ng	93
23) 1-Methoxy-2-propanol; ...	0.000		0	N.D. d	
24) Ethylene glycol; 107-21-1	0.000		0	N.D. d	
25) Butyl acetate; 123-86-4	0.000		0	N.D. d	
26) Propylene glycol; 57-55-6	0.000		0	N.D. d	
27) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
28) Hexanoic acid; 142-62-1	0.000		0	N.D.	
29) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
30) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D.	
31) Dodecanol; 112-53-8	0.000		0	N.D.	
32) Butylated hydroxytolue...	0.000		0	N.D.	
33) Texanol 1; 25265-77-4-IS1	0.000		0	N.D.	
34) Texanol 3; 25265-77-4-IS3	0.000		0	N.D.	
36) n-Pentane; 109-66-0	0.000		0	N.D. d	
37) Ethanol; 64-17-5	1.971	31	537983	121.40 ng	94
38) 2-Propanone(acetone); ...	2.253	43	488693	56.43 ng	92
39) 2-Propanol; 67-63-0	2.370	45	113145	11.49 ng	# 62
40) Carbon disulfide; 75-15-0	0.000		0	N.D.	
41) Dichloromethane; 75-09-2	0.000		0	N.D. d	
42) n-Hexane; 110-54-3	0.000		0	N.D. d	
43) Vinyl acetate; 108-05-4	0.000		0	N.D. d	
44) 2-Butanone; 78-93-3	0.000		0	N.D. d	

45)	Ethyl acetate; 141-78-6	0.000	0	N.D. d
46)	Cyclohexane; 110-82-7	0.000	0	N.D.
47)	Benzene; 71-43-2	0.000	0	N.D. d
48)	2-Methyl-1-propanol; 7...	0.000	0	N.D.
49)	1-Butanol; 71-36-3	0.000	0	N.D.
50)	1,4-Dioxane; 123-91-1	0.000	0	N.D.
51)	Epichlorohydrin; 106-89-8	0.000	0	N.D.
53)	n-Butanal;123-72-8	0.000	0	N.D.
54)	Pentanal; 110-62-3	0.000	0	N.D.
55)	4-Methyl-2-pentanone; ...	0.000	0	N.D.
56)	Hexanal; 66-25-1	0.000	0	N.D. d
57)	2-Furancarboxaldehyde;...	0.000	0	N.D.
58)	4-Heptanone; 123-19-3	0.000	0	N.D.
59)	2-Heptanone; 110-43-0	0.000	0	N.D.
60)	Heptanal; 111-71-7	0.000	0	N.D.
61)	Benzaldehyde; 100-52-7	0.000	0	N.D. d
63)	Octane; 111-65-9	0.000	0	N.D.
64)	n-Nonane; 111-84-2	0.000	0	N.D.
65)	alpha-Pinene; 7785-70-8	0.000	0	N.D. d
66)	Cyclohexanone; 108-94-1	0.000	0	N.D.
67)	Camphene; 5794-03-6	0.000	0	N.D. d
68)	beta-Pinene; 19902-08-0	0.000	0	N.D.
69)	n-Decane; 124-18-5	0.000	0	N.D.
70)	3-Carene; 13466-78-9	0.000	0	N.D.
71)	d-Limonene; 5989-27-5	0.000	0	N.D. d
72)	p-Cymene; 99-87-6	0.000	0	N.D.
73)	1-Undecene; 821-95-4	0.000	0	N.D.
74)	n-Undecane; 1120-21-4	0.000	0	N.D.
75)	n-Dodecane; 112-40-3	0.000	0	N.D.
76)	Dodecamethylpentasilox...	0.000	0	N.D.
77)	n-Tridecane; 629-50-5	0.000	0	N.D.
78)	Benzothiazole; 95-16-9	0.000	0	N.D.
79)	n-Tetradecane; 629-59-4	0.000	0	N.D. d
80)	n-Pentadecane; 629-62-9	0.000	0	N.D.
81)	n-Hexadecane; 544-76-3	0.000	0	N.D.
82)	n-Heptadecane; 629-78-7	0.000	0	N.D.
84)	Propyl acetate; 109-60-4	0.000	0	N.D.
85)	Isobutyl acetate;110-19-0	0.000	0	N.D.
86)	PGMEA; 108-65-6	0.000	0	N.D.
87)	1,3-Dichloro-2-propano...	0.000	0	N.D.
88)	DPGME isomer 1; 34590-...	0.000	0	N.D.
89)	DPGME isomer 2; 34590-...	0.000	0	N.D.
90)	DPGME isomer 3; 34590-...	0.000	0	N.D.
91)	1,1'-Oxybis-2-propanol...	0.000	0	N.D.
92)	Benzenemethanol; 100-51-6	0.000	0	N.D.
93)	Propylene carbonate; 1...	0.000	0	N.D.
94)	2,2'-Oxybis(1-propanol...	0.000	0	N.D.
95)	2-(2-Hydroxypropoxy)1-...	0.000	0	N.D.
96)	Octanoic acid; 124-07-2	0.000	0	N.D.
97)	alpha-Terpineol; 10482...	0.000	0	N.D.
98)	1-Dodecanamine, N,N-di...	0.000	0	N.D.
99)	3-Methyl-1,1'-biphenyl...	0.000	0	N.D.
100)	TXIB; 6846-50-0	0.000	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Desorb_Merged_2014.M Thu Jan 08 13:32:34 2015

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2015\Jan\
Data File : T150107_08.D
Acq On : 7 Jan 2015 7:21 pm
Operator : rgill
Sample : 061-021-04_US EPA; 10th floor-10161; 5.925L
Misc : A10979; TVOC-04; 107ngBFB;10:1 split
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 08 15:25:00 2015
Quant Method : M:\5975 Methods\Y2K14\Desorb_Merged_2014.M
Quant Title : AB95168
QLast Update : Fri Aug 09 12:40:29 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) 1-Bromo-4-flourobenzen...	13.938	95	838263	107.00 ng	#	0.00
22) 1-Bromo-4-flourobenzen...	13.938	95	838263	107.00 ng	#	0.00
35) 1-Bromo-4-flourobenzen...	13.938	95	838263	107.00 ng	#	0.00
52) 1-Bromo-4-flourobenzen...	13.938	95	838263	107.00 ng	#	0.00
62) 1-Bromo-4-flourobenzen...	13.938	95	838263	107.00 ng	#	0.00
83) 1-Bromo-4-flourobenzen...	13.938	95	838263	107.00 ng	#	0.00
Target Compounds						Qvalue
2) Trichloroethene;79-01-6	0.000		0	N.D.		
3) Methyl methacrylate; 8...	0.000		0	N.D.		
4) Toluene; 108-88-3	9.459	91	216156	13.60 ng		93
5) Tetrachloroethene; 127...	0.000		0	N.D.		
6) N,N-Dimethylformamide;...	0.000		0	N.D.		
7) Ethylbenzene; 100-41-4	0.000		0	N.D. d		
8) Xylene {1}; 108-38-3	0.000		0	N.D. d		
9) Xylene {2}; 95-47-6	0.000		0	N.D. d		
10) Xylene - TOTAL; 1330-20-7	0.000		0	N.D. d		
11) Styrene; 100-42-5	0.000		0	N.D.		
12) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d		
13) Octanal; 124-13-0	0.000		0	N.D. d		
14) Phenol; 108-95-2	0.000		0	N.D. d		
15) 1-Phenylethanone; 98-86-2	0.000		0	N.D. d		
16) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.		
17) Nonanal; 124-19-6	19.294	41	45145	20.35 ng	#	80
18) 2-Ethylhexanoic acid; ...	0.000		0	N.D.		
19) Naphthalene; 91-20-3	0.000		0	N.D.		
20) 4-Phenylcyclohexene; 4...	0.000		0	N.D.		
21) Caprolactam; 105-60-2	23.695	113	154646	74.52 ng		92
23) 1-Methoxy-2-propanol; ...	0.000		0	N.D. d		
24) Ethylene glycol; 107-21-1	10.004	31	30008	15.31 ng	#	41
25) Butyl acetate; 123-86-4	0.000		0	N.D. d		
26) Propylene glycol; 57-55-6	10.968	45	126495	22.34 ng	#	60
27) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d		
28) Hexanoic acid; 142-62-1	0.000		0	N.D.		
29) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d		
30) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d		
31) Dodecanol; 112-53-8	0.000		0	N.D.		
32) Butylated hydroxytolue...	0.000		0	N.D.		
33) Texanol 1; 25265-77-4-IS1	0.000		0	N.D.		
34) Texanol 3; 25265-77-4-IS3	0.000		0	N.D. d		
36) n-Pentane; 109-66-0	0.000		0	N.D. d		
37) Ethanol; 64-17-5	1.971	31	974442	236.39 ng		95
38) 2-Propanone(acetone); ...	2.253	43	550899	68.38 ng		91
39) 2-Propanol; 67-63-0	2.370	45	120081	13.10 ng	#	62
40) Carbon disulfide; 75-15-0	0.000		0	N.D.		
41) Dichloromethane; 75-09-2	0.000		0	N.D. d		
42) n-Hexane; 110-54-3	0.000		0	N.D. d		
43) Vinyl acetate; 108-05-4	0.000		0	N.D.		
44) 2-Butanone; 78-93-3	0.000		0	N.D. d		

45)	Ethyl acetate; 141-78-6	0.000		0	N.D. d		
46)	Cyclohexane; 110-82-7	0.000		0	N.D.		
47)	Benzene; 71-43-2	0.000		0	N.D. d		
48)	2-Methyl-1-propanol; 7...	0.000		0	N.D.		
49)	1-Butanol; 71-36-3	0.000		0	N.D. d		
50)	1,4-Dioxane; 123-91-1	0.000		0	N.D.		
51)	Epichlorohydrin; 106-89-8	0.000		0	N.D.		
53)	n-Butanal;123-72-8	0.000		0	N.D.		
54)	Pentanal; 110-62-3	0.000		0	N.D.		
55)	4-Methyl-2-pentanone; ...	0.000		0	N.D.		
56)	Hexanal; 66-25-1	0.000		0	N.D. d		
57)	2-Furancarboxaldehyde;...	0.000		0	N.D.		
58)	4-Heptanone; 123-19-3	0.000		0	N.D.		
59)	2-Heptanone; 110-43-0	0.000		0	N.D.		
60)	Heptanal; 111-71-7	0.000		0	N.D.		
61)	Benzaldehyde; 100-52-7	0.000		0	N.D. d		
63)	Octane; 111-65-9	0.000		0	N.D.		
64)	n-Nonane; 111-84-2	0.000		0	N.D.		
65)	alpha-Pinene; 7785-70-8	0.000		0	N.D. d		
66)	Cyclohexanone; 108-94-1	0.000		0	N.D.		
67)	Camphene; 5794-03-6	0.000		0	N.D. d		
68)	beta-Pinene; 19902-08-0	0.000		0	N.D.		
69)	n-Decane; 124-18-5	0.000		0	N.D. d		
70)	3-Carene; 13466-78-9	0.000		0	N.D.		
71)	d-Limonene; 5989-27-5	16.372	68	300109	57.84 ng	#	89
72)	p-Cymene; 99-87-6	0.000		0	N.D.		
73)	1-Undecene; 821-95-4	0.000		0	N.D.		
74)	n-Undecane; 1120-21-4	0.000		0	N.D.		
75)	n-Dodecane; 112-40-3	0.000		0	N.D. d		
76)	Dodecamethylpentasilox...	0.000		0	N.D.		
77)	n-Tridecane; 629-50-5	0.000		0	N.D.		
78)	Benzothiazole; 95-16-9	0.000		0	N.D.		
79)	n-Tetradecane; 629-59-4	0.000		0	N.D. d		
80)	n-Pentadecane; 629-62-9	0.000		0	N.D.		
81)	n-Hexadecane; 544-76-3	0.000		0	N.D. d		
82)	n-Heptadecane; 629-78-7	0.000		0	N.D.		
84)	Propyl acetate; 109-60-4	0.000		0	N.D.		
85)	Isobutyl acetate;110-19-0	0.000		0	N.D.		
86)	PGMEA; 108-65-6	0.000		0	N.D.		
87)	1,3-Dichloro-2-propano...	0.000		0	N.D.		
88)	DPGME isomer 1; 34590-...	0.000		0	N.D.		
89)	DPGME isomer 2; 34590-...	0.000		0	N.D.		
90)	DPGME isomer 3; 34590-...	0.000		0	N.D.		
91)	1,1'-Oxybis-2-propanol...	0.000		0	N.D.		
92)	Benzenemethanol; 100-51-6	0.000		0	N.D.		
93)	Propylene carbonate; 1...	0.000		0	N.D.		
94)	2,2'-Oxybis(1-propanol...	0.000		0	N.D. d		
95)	2-(2-Hydroxypropoxy)1-...	0.000		0	N.D. d		
96)	Octanoic acid; 124-07-2	0.000		0	N.D.		
97)	alpha-Terpineol; 10482...	0.000		0	N.D.		
98)	1-Dodecanamine, N,N-di...	0.000		0	N.D.		
99)	3-Methyl-1,1'-biphenyl...	0.000		0	N.D.		
100)	TXIB; 6846-50-0	0.000		0	N.D. d		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Desorb_Merged_2014.M Thu Jan 08 15:29:03 2015

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2015\Jan\
Data File : T150107_09.D
Acq On : 7 Jan 2015 8:07 pm
Operator : rgill
Sample : 061-021-05_US EPA; Roof-South Side; 5.977L
Misc : A10987; TVOC-05; 107ngBFB;10:1 split
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 08 15:41:52 2015
Quant Method : M:\5975 Methods\Y2K14\Desorb_Merged_2014.M
Quant Title : AB95168
QLast Update : Fri Aug 09 12:40:29 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.938	95	858817	107.00 ng	# 0.00
22) 1-Bromo-4-flourobenzen...	13.938	95	858817	107.00 ng	# 0.00
35) 1-Bromo-4-flourobenzen...	13.938	95	858817	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.938	95	858817	107.00 ng	# 0.00
62) 1-Bromo-4-flourobenzen...	13.938	95	858817	107.00 ng	# 0.00
83) 1-Bromo-4-flourobenzen...	13.938	95	858817	107.00 ng	# 0.00
Target Compounds					Qvalue
2) Trichloroethene;79-01-6	0.000		0	N.D.	
3) Methyl methacrylate; 8...	0.000		0	N.D.	
4) Toluene; 108-88-3	9.459	91	181860	11.17 ng	94
5) Tetrachloroethene; 127...	0.000		0	N.D.	
6) N,N-Dimethylformamide;...	0.000		0	N.D.	
7) Ethylbenzene; 100-41-4	0.000		0	N.D. d	
8) Xylene {1}; 108-38-3	0.000		0	N.D. d	
9) Xylene {2}; 95-47-6	0.000		0	N.D. d	
10) Xylene - TOTAL; 1330-20-7	0.000		0	N.D. d	
11) Styrene; 100-42-5	0.000		0	N.D.	
12) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
13) Octanal; 124-13-0	0.000		0	N.D.	
14) Phenol; 108-95-2	0.000		0	N.D. d	
15) 1-Phenylethanone; 98-86-2	0.000		0	N.D. d	
16) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
17) Nonanal; 124-19-6	0.000		0	N.D. d	
18) 2-Ethylhexanoic acid; ...	0.000		0	N.D.	
19) Naphthalene; 91-20-3	0.000		0	N.D.	
20) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
21) Caprolactam; 105-60-2	0.000		0	N.D. d	
23) 1-Methoxy-2-propanol; ...	0.000		0	N.D. d	
24) Ethylene glycol; 107-21-1	0.000		0	N.D.	
25) Butyl acetate; 123-86-4	0.000		0	N.D. d	
26) Propylene glycol; 57-55-6	0.000		0	N.D.	
27) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
28) Hexanoic acid; 142-62-1	0.000		0	N.D.	
29) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D.	
30) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D.	
31) Dodecanol; 112-53-8	0.000		0	N.D.	
32) Butylated hydroxytolue...	0.000		0	N.D.	
33) Texanol 1; 25265-77-4-IS1	0.000		0	N.D.	
34) Texanol 3; 25265-77-4-IS3	0.000		0	N.D.	
36) n-Pentane; 109-66-0	0.000		0	N.D. d	
37) Ethanol; 64-17-5	1.966	31	542175	128.38 ng	95
38) 2-Propanone(acetone); ...	2.253	43	428414	51.91 ng	92
39) 2-Propanol; 67-63-0	2.365	45	113728	12.11 ng #	62
40) Carbon disulfide; 75-15-0	0.000		0	N.D.	
41) Dichloromethane; 75-09-2	0.000		0	N.D. d	
42) n-Hexane; 110-54-3	0.000		0	N.D. d	
43) Vinyl acetate; 108-05-4	0.000		0	N.D.	
44) 2-Butanone; 78-93-3	0.000		0	N.D. d	

45)	Ethyl acetate; 141-78-6	0.000	0	N.D. d
46)	Cyclohexane; 110-82-7	0.000	0	N.D.
47)	Benzene; 71-43-2	0.000	0	N.D. d
48)	2-Methyl-1-propanol; 7...	0.000	0	N.D.
49)	1-Butanol; 71-36-3	0.000	0	N.D.
50)	1,4-Dioxane; 123-91-1	0.000	0	N.D.
51)	Epichlorohydrin; 106-89-8	0.000	0	N.D.
53)	n-Butanal;123-72-8	0.000	0	N.D.
54)	Pentanal; 110-62-3	0.000	0	N.D.
55)	4-Methyl-2-pentanone; ...	0.000	0	N.D.
56)	Hexanal; 66-25-1	0.000	0	N.D.
57)	2-Furancarboxaldehyde;...	0.000	0	N.D.
58)	4-Heptanone; 123-19-3	0.000	0	N.D.
59)	2-Heptanone; 110-43-0	0.000	0	N.D.
60)	Heptanal; 111-71-7	0.000	0	N.D.
61)	Benzaldehyde; 100-52-7	0.000	0	N.D. d
63)	Octane; 111-65-9	0.000	0	N.D.
64)	n-Nonane; 111-84-2	0.000	0	N.D.
65)	alpha-Pinene; 7785-70-8	0.000	0	N.D. d
66)	Cyclohexanone; 108-94-1	0.000	0	N.D.
67)	Camphene; 5794-03-6	0.000	0	N.D. d
68)	beta-Pinene; 19902-08-0	0.000	0	N.D.
69)	n-Decane; 124-18-5	0.000	0	N.D.
70)	3-Carene; 13466-78-9	0.000	0	N.D.
71)	d-Limonene; 5989-27-5	0.000	0	N.D. d
72)	p-Cymene; 99-87-6	0.000	0	N.D.
73)	1-Undecene; 821-95-4	0.000	0	N.D.
74)	n-Undecane; 1120-21-4	0.000	0	N.D.
75)	n-Dodecane; 112-40-3	0.000	0	N.D.
76)	Dodecamethylpentasilox...	0.000	0	N.D.
77)	n-Tridecane; 629-50-5	0.000	0	N.D.
78)	Benzothiazole; 95-16-9	0.000	0	N.D.
79)	n-Tetradecane; 629-59-4	0.000	0	N.D.
80)	n-Pentadecane; 629-62-9	0.000	0	N.D.
81)	n-Hexadecane; 544-76-3	0.000	0	N.D.
82)	n-Heptadecane; 629-78-7	0.000	0	N.D.
84)	Propyl acetate; 109-60-4	0.000	0	N.D.
85)	Isobutyl acetate;110-19-0	0.000	0	N.D.
86)	PGMEA; 108-65-6	0.000	0	N.D.
87)	1,3-Dichloro-2-propano...	0.000	0	N.D.
88)	DPGME isomer 1; 34590-...	0.000	0	N.D.
89)	DPGME isomer 2; 34590-...	0.000	0	N.D.
90)	DPGME isomer 3; 34590-...	0.000	0	N.D.
91)	1,1'-Oxybis-2-propanol...	0.000	0	N.D.
92)	Benzenemethanol; 100-51-6	0.000	0	N.D.
93)	Propylene carbonate; 1...	0.000	0	N.D.
94)	2,2'-Oxybis(1-propanol...	0.000	0	N.D.
95)	2-(2-Hydroxypropoxy)1-...	0.000	0	N.D.
96)	Octanoic acid; 124-07-2	0.000	0	N.D.
97)	alpha-Terpineol; 10482...	0.000	0	N.D.
98)	1-Dodecanamine, N,N-di...	0.000	0	N.D.
99)	3-Methyl-1,1'-biphenyl...	0.000	0	N.D.
100)	TXIB; 6846-50-0	0.000	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Desorb_Merged_2014.M Thu Jan 08 15:41:56 2015

TVOC
061-021-01_US EPA; 12th floor-12168; 5.730L
1/8/2015
Mi59958-TVOC-1
TIC: T150107_05.D\data.ms

1.97	2859481	
5.61	2236024	
6.60	1140025	
9.46	827353	
10.97	819875	
12.23	1075333	
13.62	194653	
13.94	**4214225**	**bfb-Istd**
14.96	903396	
16.38	4006665	
19.44	1352247	
20.75	296706	
22.93	683582	
23.69	2070236	
24.53	3107888	

Total area	25787689
Relative resp	5.1
Mass (ng)	595
Vol (L)	5.73
Conc (µg/m3)	104

TVOC
061-021-02_US EPA; 12th floor-12130; 5.180L
1/8/2015
A10980-TVOC-2
TIC: T150107_06.D\data.ms

1.97	2992088	
2.63	445864	
4.13	113373	
5.61	177713	
6.62	560041	
9.46	389609	
10.97	893674	
12.23	1036209	
13.62	193566	
13.94	**3978180**	**bfb-Istd**
16.38	2742603	
19.43	1190786	
20.75	455420	
23.69	2557079	
24.95	3540653	

Total area	21266858
Relative resp	4.3
Mass (ng)	505
Vol (L)	5.18
Conc (µg/m3)	98

TVOC
061-021-03_US EPA; 10th floor-10221; 6.130L
1/8/2015
A10960-TVOC-3
TIC: T150107_07.D\data.ms

1.97	2405694	
2.63	586290	
4.12	343313	
6.61	1104162	
9.46	451120	
10.36	907139	
12.23	1026792	
13.94	**4222662**	**bfb-Istd**
14.95	940293	
16.38	1079623	
19.43	1561438	
23.70	1691074	
24.54	2116873	
26.36	466752	

Total area	18903225
Relative resp	3.5
Mass (ng)	404
Vol (L)	6.13
Conc (µg/m3)	66

TVOC
061-021-04_US EPA; 10th floor-10161; 5.925L
1/8/2015
A10979-TVOC-4
TIC: T150107_08.D\data.ms

1.97	3585750	
2.62	1082174	
6.62	2247443	
9.46	512754	
10.97	1041252	
12.23	1111257	
13.62	432983	
13.94	**3937052**	**bfb-Istd**
14.95	1256464	
16.38	3740510	
19.43	3162457	
20.75	297323	
22.93	1819999	
23.70	6697903	

Total area	30925321
Relative resp	6.9
Mass (ng)	797
Vol (L)	5.93
Conc (µg/m3)	135

TVOC
061-021-05_US EPA; Roof-South Side; 5.977L
1/8/2015
A10987-TVOC-5
TIC: T150107_09.D\data.ms

1.97	2632152	
2.62	645219	
5.61	1106227	
6.62	820658	
9.46	429493	
10.52	454100	
12.23	1212582	
13.94	**4031327**	**bfb-lstd**
15.66	1183480	
18.11	103377	
19.43	413821	
23.94	943371	
24.95	1972733	

Total area	15948540
Relative resp	3.0
Mass (ng)	344
Vol (L)	5.98
Conc (µg/m3)	58

The mass for the UC compounds are calculated based on TIC using Toluene response factor.

TIC Unconfirmed
061-021-01_US EPA; 12th floor-12168; 5.730L
Mi59958; TVOC-1
1/8/2015, Rgill

	BFB(ng)	RF		
TIC: T150107_05.D\data.ms	107	0.92	5.730	

RT	Area	RelResp	Mass ng	Conc. ug/m3	CAS#	Compound
13.92	4214225.0	1.000	116.3	20.3		bfb-Istd
1.97	1232948.0	0.293	140.0	24.4		Ethanol
2.25	1027791.0	0.244	73.2	12.8		2-Propanone (Acetone)
2.37	294860.0	0.070	19.1	3.3		2-Propanol
2.48	3346057.0	0.794	92.3	16.1		Acetonitrile (DNPH contaminant)
6.60	941608.0	0.223	26.0	4.5		Acetic acid
9.99			32.6	5.7		Ethylene glycol
10.97	358715.0	0.085	32.2	5.6		Propylene glycol
16.38	2564717.0	0.609	65.2	11.4		d-Limonene
19.29	369176.0	0.088	15.9	2.8		Nonanal
19.44	922894.0	0.219	25.5	4.4	541-02-6	Decamethylcyclopentasiloxane
23.69	1413379.0	0.335	75.8	13.2		Caprolactam
9.46	427155.0	0.101	10.6	1.8		m,p-xylene
12.23	325101.0	0.077	9.0	1.6		1-chloro-4-(trifluoromethyl) benzene (PCBTF) 98-56-6
12.00	249900.0	0.059	6.9	1.2		
17.14	243436.0	0.058	6.7	1.2		
14.96	241258.0	0.057	6.7	1.2		
10.83	208053.0	0.049	5.7	1.0		
5.61	197319.0	0.047	5.4	1.0		
23.93	168093.0	0.040	4.6	0.8		
18.10	162734.0	0.039	4.5	0.8		
15.66	161650.0	0.038	4.5	0.8		
10.52	156196.0	0.037	4.3	0.8		
21.74	153737.0	0.036	4.2	0.7		
15.18	144220.0	0.034	4.0	0.7		
25.78	141410.0	0.034	3.9	0.7		
12.94	140484.0	0.033	3.9	0.7		
26.66	138453.0	0.033	3.8	0.7		

Distinct aromatic odor

$C_2 - C_3$ alkyl benzenes

① Ink solvent in printing
Oxsol 100
Sunc Spec 900
Xylene replacement in cleaners, thinners & aromatic HC blends

② PJ finishes

The mass for the UC compounds are calculated based on TIC using Toluene response factor.

TIC Unconfirmed
061-021-02_US EPA; 12th floor-12130; 5.180L
A10980; TVOC-2
1/8/2015, Rgill

	BFB(ng)	RF		
TIC: T150107_06.D\data.ms	107	0.92	5.180	

RT	Area	RelResp	Mass ng	Conc. ug/m3	CAS#	Compound
13.92	3978180.0	1.000	116.3	22.5		bfb-Istd
1.54	562169.0	0.141	16.4	3.2		Methanol
1.97	1258296.0	0.316	150.2	29.0		Ethanol
2.25	1041313.0	0.262	79.3	15.3		2-Propanone (Acetone)
2.37	205905.0	0.052	13.1	2.5		2-Propanol
2.48	3200672.0	0.805	93.6	18.1		Acetonitrile (DNPH contaminant)
6.62	560041.0	0.141	16.4	3.2		Acetic acid
9.46	389609.0	0.098	10.2	2.0		Toluene
10.97	460699.0	0.116	43.1	8.3		Propylene glycol
19.29	370860.0	0.093	16.8	3.2		Nonanal
19.43	723682.0	0.182	21.2	4.1	541-02-6	Decamethylcyclopentasiloxane
23.69	993818.0	0.250	29.1	5.6		Caprolactam
12.23	273810.0	0.069	8.0	1.5		C2 benzene.
16.38	256657.0	0.065	7.5	1.4		
14.96	224736.0	0.056	6.6	1.3		
10.83	220326.0	0.055	6.4	1.2		
12.00	217066.0	0.055	6.3	1.2		- pCBTf
23.93	211099.0	0.053	6.2	1.2		
21.74	195139.0	0.049	5.7	1.1		
18.10	192210.0	0.048	5.6	1.1		- phenol.
5.61	177713.0	0.045	5.2	1.0		
24.53	170189.0	0.043	5.0	1.0		
24.95	164014.0	0.041	4.8	0.9		
1.90	160382.0	0.040	4.7	0.9		
10.52	148341.0	0.037	4.3	0.8		
25.78	143208.0	0.036	4.2	0.8		
15.18	143034.0	0.036	4.2	0.8		
12.94	135551.0	0.034	4.0	0.8		
15.66	133994.0	0.034	3.9	0.8		

The mass for the UC compounds are calculated based on TIC using Toluene response factor.

TIC Unconfirmed
061-021-03_US EPA; 10th floor-10221; 6.130L
A10960; TVOC-3
1/8/2015, Rgill

	BFB(ng)	RF		
TIC: T150107_07.D\data.ms	107	0.92	6.130	

RT	Area	RelResp	Mass ng	Conc. ug/m3	CAS#	Compound
13.92	4222662.0	1.000	116.3	19.0		bfb-Istd
1.97	1059915.0	0.251	121.4	19.8		Ethanol
2.25	791614.0	0.187	56.4	9.2		2-Propanone (Acetone)
2.37	173500.0	0.041	11.5	1.9		2-Propanol
2.48	4165362.0	0.986	114.7	18.7		Acetonitrile (DNPH contaminant)
6.61	456764.0	0.108	12.6	2.1		Acetic acid
19.30	281447.0	0.067	12.1	2.0		Nonanal
19.43	429339.0	0.102	11.8	1.9	541-02-6	Decamethylcyclopentasiloxane
23.70	621394.0	0.147	34.1	5.6		Caprolactam
9.46	451120.0	0.107	11.2	1.8		
16.38	348550.0	0.083	9.6	1.6		
12.23	331427.0	0.078	9.1	1.5		
1.54	296584.0	0.070	8.2	1.3		
12.00	239472.0	0.057	6.6	1.1		
5.61	238326.0	0.056	6.6	1.1		
14.95	230524.0	0.055	6.3	1.0		
10.36	204505.0	0.048	5.6	0.9		
15.66	199730.0	0.047	5.5	0.9		
1.91	198727.0	0.047	5.5	0.9		
10.52	161447.0	0.038	4.4	0.7		
18.10	160712.0	0.038	4.4	0.7		
1.74	160469.0	0.038	4.4	0.7		
12.94	151696.0	0.036	4.2	0.7		
4.12	139813.0	0.033	3.9	0.6		
10.83	135171.0	0.032	3.7	0.6		
10.97	129302.0	0.031	3.6	0.6		
21.74	125110.0	0.030	3.4	0.6		
3.19	121277.0	0.029	3.3	0.5		
4.76	116823.0	0.028	3.2	0.5		
25.78	114792.0	0.027	3.2	0.5		

The mass for the UC compounds are calculated based on TIC using Toluene response factor.

TIC Unconfirmed
061-021-04_US EPA; 10th floor-10161; 5.925L
A10979; TVOC-4
1/8/2015, Rgill

	BFB(ng)	RF		
TIC: T150107_08.D\data.ms	107	0.92	5.925	

RT	Area	RelResp	Mass ng	Conc. ug/m3	CAS#	Compound
13.92	3937052.0	1.000	116.3	19.6		bfb-Istd
1.54	548281.0	0.139	16.2	2.7		Methanol
1.97	1964694.0	0.499	236.4	39.9		Ethanol
2.25	897769.0	0.228	68.4	11.5		2-Propanone (Acetone)
2.37	187418.0	0.048	13.1	2.2		2-Propanol
2.49	11690215.0	2.969	345.3	58.3		Acetonitrile (DNPH contaminant)
6.62	623364.0	0.158	18.4	3.1		Acetic acid
9.46	512754.0	0.130	13.6	2.3		Toluene
10.00			15.3	2.6		Ethylene glycol
10.97	271326.0	0.069	22.3	3.8		Propylene glycol
16.38	2183935.0	0.555	57.8	9.8		d-Limonene
19.29	462190.0	0.117	20.4	3.4		Nonanal
19.43	2376806.0	0.604	70.2	11.9	541-02-6	Decamethylcyclopentasiloxane
23.70	1305856.0	0.332	74.5	12.6		Caprolactam
12.23	331293.0	0.084	9.8	1.7		
10.52	280007.0	0.071	8.3	1.4		
12.01	233532.0	0.059	6.9	1.2		
14.95	231446.0	0.059	6.8	1.2		
18.10	227422.0	0.058	6.7	1.1		
5.60	218779.0	0.056	6.5	1.1		
23.93	211205.0	0.054	6.2	1.1		
15.66	209530.0	0.053	6.2	1.0		
10.83	208093.0	0.053	6.1	1.0		
21.74	200137.0	0.051	5.9	1.0		
25.77	181889.0	0.046	5.4	0.9		
24.54	180117.0	0.046	5.3	0.9		
12.94	164465.0	0.042	4.9	0.8		
22.93	156480.0	0.040	4.6	0.8		
1.90	152863.0	0.039	4.5	0.8		
4.12	150692.0	0.038	4.5	0.8		
17.16	148800.0	0.038	4.4	0.7		

The mass for the UC compounds are calculated based on TIC using Toluene response factor.

TIC Unconfirmed
061-021-05_US EPA; Roof-South Side; 5.977L
A10987; TVOC-5
1/8/2015, Rgill

	BFB(ng)	RF		
TIC: T150107_09.D\data.ms	107		0.92	5.977

RT	Area	RelResp	Mass ng	Conc. ug/m3	CAS#	Compound
13.92	4031327.0	1.000	116.3	19.5		bfb-Istd
1.97	1067449.0	0.265	128.4	21.5		Ethanol
2.25	711886.0	0.177	51.9	8.7		2-Propanone (Acetone)
2.37	186723.0	0.046	12.1	2.0		2-Propanol
2.48	386086.0	0.096	11.1	1.9		Acetonitrile (DNPH contaminant)
6.62	378082.0	0.094	10.9	1.8		Acetic acid
9.46	429493.0	0.107	11.2	1.9		Toluene
12.23	362230.0	0.090	10.5	1.7		
12.00	353002.0	0.088	10.2	1.7		– PCBTF
5.61	239754.0	0.059	6.9	1.2		
19.43	235885.0	0.059	6.8	1.1		
1.90	217536.0	0.054	6.3	1.1		
15.66	192159.0	0.048	5.5	0.9		
16.38	191638.0	0.048	5.5	0.9		
14.95	188478.0	0.047	5.4	0.9		
1.73	169791.0	0.042	4.9	0.8		
12.94	156220.0	0.039	4.5	0.8		
4.12	136584.0	0.034	3.9	0.7		
1.54	135714.0	0.034	3.9	0.7		
19.30	132631.0	0.033	3.8	0.6		
2.62	131559.0	0.033	3.8	0.6		
3.19	115695.0	0.029	3.3	0.6		
10.52	111981.0	0.028	3.2	0.5		
6.40	105736.0	0.026	3.1	0.5		
18.11	99745.0	0.025	2.9	0.5		
4.77	98886.0	0.025	2.9	0.5		
15.74	95838.0	0.024	2.8	0.5		
25.78	95066.0	0.024	2.7	0.5		
21.74	94080.0	0.023	2.7	0.5		
5.89	91546.0	0.023	2.6	0.4		
26.35	85386.0	0.021	2.5	0.4		
24.95	85117.0	0.021	2.5	0.4		
23.94	79625.0	0.020	2.3	0.4		

061-021-01 5.73 litres
US EPA
M59958 collected: 1/6/2015
TVOC-01; 12th Floor-12168

061-021-02 5.18 litres
US EPA
A10980 collected: 1/6/2015
TVOC-02; 12th Floor-12130

061-021-03 6.13 litres
US EPA
A10960 collected: 1/6/2015
TVOC-03; 10th Floor-10221

061-021-04 5.925 litres
US EPA
A10979 collected: 1/6/2015
TVOC-04; 10th Floor-10161

061-021-05 5.977 litres
US EPA
A10987 collected: 1/6/2015
TVOC-05; Roof-South Side

061-021-06 52.226 litres
US EPA
F-01 collected: 1/6/2015
10th Floor-10221

061-021-07 50.441 litres
US EPA
F-02 collected: 1/6/2015
10th Floor-10161

061-021-08 47.15 litres
US EPA
F-03 collected: 1/6/2015
12th Floor-12310

061-021-09 49.851 litres
US EPA
F-04 collected: 1/6/2015
12th Floor-12168

061-021-10 54.27 litres
US EPA
F-05 collected: 1/6/2015
Roof-South Side