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Analysis of Field-Collected Air Samples

Customer and Project Information

Report Certification	
Report number	061-033-IH-May1316
Report date	May 13, 2016
Certified by (Name/Title)	Alfred T. Hodgson, Research Director
Signature	
Date	*May 16, 2016*

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	415-972-3740

Project Information	
Project number	Not given
Project name	75 Hawthorne IAQ
Project location	Not given
Project date	May 3, 2016

Laboratory Receiving Information	
Date samples received by lab	May 5, 2016
Condition of samples	No observed problems
Lab tracking numbers	061-033-01 to 061-033-59

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Sample Information, Caprolactam

Sample No.	Sample Description	Sampler No.	Date Collected	Volume* (L)	Analysis Type	Specified Method
C11-21	15156	Mi193227	May 3, 2016	5.507	Caprolactam	TO-17
C11-22	15162	Mi59930	May 3, 2016	5.480	Caprolactam	TO-17
C11-23	16361	Mi59928	May 3, 2016	5.704	Caprolactam	TO-17
C11-24	16448	242492	May 3, 2016	5.887	Caprolactam	TO-17
C11-25	16158	Mi51172	May 3, 2016	5.791	Caprolactam	TO-17
C11-26	16133	Mi193211	May 3, 2016	6.111	Caprolactam	TO-17
C11-27	17355	Mi51136	May 3, 2016	4.535	Caprolactam	TO-17
C11-28	17446	203137	May 3, 2016	4.095	Caprolactam	TO-17
C11-29	17144	203112	May 3, 2016	4.840	Caprolactam	TO-17
C11-30	18446	242485	May 3, 2016	4.825	Caprolactam	TO-17
C11-31	18113	Mi193289	May 3, 2016	4.764	Caprolactam	TO-17
C11-32	18243	242455	May 3, 2016	5.737	Caprolactam	TO-17
C11-33	18357	242468	May 3, 2016	5.005	Caprolactam	TO-17
C11-34	19310	203164	May 3, 2016	4.922	Caprolactam	TO-17
C11-35	19415	203195	May 3, 2016	5.125	Caprolactam	TO-17
C11-36	19331	203154	May 3, 2016	5.788	Caprolactam	TO-17
C11-37	19213	Mi51114	May 3, 2016	5.686	Caprolactam	TO-17
C11-38	8338	Mi51111	May 3, 2016	5.932	Caprolactam	TO-17
C11-39	8356	203119	May 3, 2016	4.822	Caprolactam	TO-17
C11-40	8223	242403	May 3, 2016	4.731	Caprolactam	TO-17

*Volume in liters reported by customer

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Sample Information, Caprolactam

Sample No.	Sample Description	Sampler No.	Date Collected	Volume* (L)	Analysis Type	Specified Method
C11-41	8146	203118	May 3, 2016	5.231	Caprolactam	TO-17
C11-42	9665	242490	May 3, 2016	5.785	Caprolactam	TO-17
C11-43	9246	203127	May 3, 2016	5.678	Caprolactam	TO-17
C11-44	9163	203163	May 3, 2016	5.807	Caprolactam	TO-17
C11-45	9419	203178	May 3, 2016	5.000	Caprolactam	TO-17
C11-46	13138	Mi58832	May 3, 2016	4.916	Caprolactam	TO-17
C11-47	13243	203134	May 3, 2016	5.208	Caprolactam	TO-17
C11-48	13336	Mi193225	May 3, 2016	4.427	Caprolactam	TO-17
C11-49	13344	Mi51177	May 3, 2016	5.486	Caprolactam	TO-17

*Volume in liters reported by customer

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Sample Information, Formaldehyde

Sample No.	Sample Description	Sampler No.	Date Collected	Volume* (L)	Analysis Type	Specified Method
F11-21	15156	Waters Cart	May 3, 2016	52.32	Formaldehyde	D 5197
F11-22	15162	Waters Cart	May 3, 2016	56.73	Formaldehyde	D 5197
F11-23	16361	Waters Cart	May 3, 2016	55.48	Formaldehyde	D 5197
F11-24	16448	Waters Cart	May 3, 2016	56.04	Formaldehyde	D 5197
F11-25	16158	Waters Cart	May 3, 2016	59.35	Formaldehyde	D 5197
F11-26	16133	Waters Cart	May 3, 2016	58.99	Formaldehyde	D 5197
F11-27	17355	Waters Cart	May 3, 2016	43.35	Formaldehyde	D 5197
F11-28	17446	Waters Cart	May 3, 2016	42.29	Formaldehyde	D 5197
F11-29	17144	Waters Cart	May 3, 2016	47.32	Formaldehyde	D 5197
F11-30	18446	Waters Cart	May 3, 2016	46.06	Formaldehyde	D 5197
F11-31	18113	Waters Cart	May 3, 2016	50.28	Formaldehyde	D 5197
F11-32	18243	Waters Cart	May 3, 2016	55.98	Formaldehyde	D 5197
F11-33	18357	Waters Cart	May 3, 2016	47.94	Formaldehyde	D 5197
F11-34	19310	Waters Cart	May 3, 2016	47.75	Formaldehyde	D 5197
F11-35	19415	Waters Cart	May 3, 2016	48.89	Formaldehyde	D 5197
F11-36	19331	Waters Cart	May 3, 2016	54.62	Formaldehyde	D 5197
F11-37	19213	Waters Cart	May 3, 2016	54.18	Formaldehyde	D 5197
F11-38	8338	Waters Cart	May 3, 2016	55.63	Formaldehyde	D 5197
F11-39	8356	Waters Cart	May 3, 2016	45.96	Formaldehyde	D 5197
F11-40	8223	Waters Cart	May 3, 2016	45.35	Formaldehyde	D 5197

*Volume in liters reported by customer

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Sample Information, Formaldehyde

Sample No.	Sample Description	Sampler No.	Date Collected	Volume* (L)	Analysis Type	Specified Method
F11-41	8146	Waters Cart	May 3, 2016	48.78	Formaldehyde	D 5197
F11-42	9665	Waters Cart	May 3, 2016	55.55	Formaldehyde	D 5197
F11-43	9246	Waters Cart	May 3, 2016	54.74	Formaldehyde	D 5197
F11-44	9163	Waters Cart	May 3, 2016	54.22	Formaldehyde	D 5197
F11-45	9419	Waters Cart	May 3, 2016	48.35	Formaldehyde	D 5197
F11-46	13138	Waters Cart	May 3, 2016	47.53	Formaldehyde	D 5197
F11-47	13243	Waters Cart	May 3, 2016	49.62	Formaldehyde	D 5197
F11-48	13336	Waters Cart	May 3, 2016	42.62	Formaldehyde	D 5197
F11-49	13344	Waters Cart	May 3, 2016	52.89	Formaldehyde	D 5197

*Volume in liters reported by customer

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Analytical Information, Caprolactam

Sample No.	Lab Track. No.	Method	Date Analyzed	Analyst	Data File
C11-21	061-033-01	TO-17	May 10, 2016	R. Gill	T160510_03
C11-22	061-033-02	TO-17	May 10, 2016	R. Gill	T160510_03
C11-23	061-033-03	TO-17	May 10, 2016	R. Gill	T160510_04
C11-24	061-033-04	TO-17	May 10, 2016	R. Gill	T160510_05
C11-25	061-033-05	TO-17	May 11, 2016	R. Gill	T160511_04
C11-26	061-033-06	TO-17	May 10, 2016	R. Gill	T160510_08
C11-27	061-033-07	TO-17	May 10, 2016	R. Gill	T160510_09
C11-28	061-033-08	TO-17	May 10, 2016	R. Gill	T160510_10
C11-29	061-033-09	TO-17	May 10, 2016	R. Gill	T160510_11
C11-30	061-033-10	TO-17	May 10, 2016	R. Gill	T160510_12
C11-31	061-033-11	TO-17	May 10, 2016	R. Gill	T160510_13
C11-32	061-033-12	TO-17	May 10, 2016	R. Gill	T160510_14
C11-33	061-033-13	TO-17	May 12, 2016	R. Gill	T160512_04
C11-34	061-033-14	TO-17	May 12, 2016	R. Gill	T160512_05
C11-35	061-033-15	TO-17	May 12, 2016	R. Gill	T160512_06
C11-36	061-033-16	TO-17	May 12, 2016	R. Gill	T160512_07
C11-37	061-033-17	TO-17	May 12, 2016	R. Gill	T160512_08
C11-38	061-033-18	TO-17	May 12, 2016	R. Gill	T160512_09
C11-39	061-033-19	TO-17	May 12, 2016	R. Gill	T160512_10
C11-40	061-033-20	TO-17	May 12, 2016	R. Gill	T160512_11

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Analytical Information, Caprolactam

Sample No.	Lab Track. No.	Method	Date Analyzed	Analyst	Data File
C11-41	061-033-21	TO-17	May 12, 2016	R. Gill	T160512_12
C11-42	061-033-22	TO-17	May 12, 2016	R. Gill	T160512_13
C11-43	061-033-23	TO-17	May 12, 2016	R. Gill	T160512_14
C11-44	061-033-24	TO-17	May 12, 2016	R. Gill	T160512_15
C11-45	061-033-25	TO-17	May 12, 2016	R. Gill	T160512_16
C11-46	061-033-26	TO-17	May 12, 2016	R. Gill	T160512_17
C11-47	061-033-27	TO-17	May 12, 2016	R. Gill	T160512_18
C11-48	061-033-28	TO-17	May 12, 2016	R. Gill	T160512_19
C11-49	061-033-29	TO-17	May 12, 2016	R. Gill	T160512_20

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Analytical Information, Formaldehyde

Sample No.	Lab Track. No.	Method	Date Analyzed	Analyst	Data File
F11-21	061-033-31	D 5197	May 12, 2016	Na Li	160512\160512003.D
F11-22	061-033-32	D 5197	May 12, 2016	Na Li	160512\160512004.D
F11-23	061-033-33	D 5197	May 12, 2016	Na Li	160512\160512005.D
F11-24	061-033-34	D 5197	May 12, 2016	Na Li	160512\160512006.D
F11-25	061-033-35	D 5197	May 12, 2016	Na Li	160512\160512007.D
F11-26	061-033-36	D 5197	May 12, 2016	Na Li	160512\160512009.D
F11-27	061-033-37	D 5197	May 12, 2016	Na Li	160512\160512010.D
F11-28	061-033-38	D 5197	May 12, 2016	Na Li	160512\160512011.D
F11-29	061-033-39	D 5197	May 12, 2016	Na Li	160512\160512012.D
F11-30	061-033-40	D 5197	May 12, 2016	Na Li	160512\160512013.D
F11-31	061-033-41	D 5197	May 12, 2016	Na Li	160512\160512015.D
F11-32	061-033-42	D 5197	May 12, 2016	Na Li	160512\160512016.D
F11-33	061-033-43	D 5197	May 12, 2016	Na Li	160512\160512017.D
F11-34	061-033-44	D 5197	May 12, 2016	Na Li	160512\160512018.D
F11-35	061-033-45	D 5197	May 12, 2016	Na Li	160512\160512020.D
F11-36	061-033-46	D 5197	May 12, 2016	Na Li	160512\160512022.D
F11-37	061-033-47	D 5197	May 12, 2016	Na Li	160512\160512023.D
F11-38	061-033-48	D 5197	May 12, 2016	Na Li	160512\160512024.D
F11-39	061-033-49	D 5197	May 12, 2016	Na Li	160512\160512025.D
F11-40	061-033-50	D 5197	May 12, 2016	Na Li	160512\160512027.D

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Analytical Information, Formaldehyde

Sample No.	Lab Track. No.	Method	Date Analyzed	Analyst	Data File
F11-41	061-033-51	D 5197	May 12, 2016	Na Li	160512\160512028.D
F11-42	061-033-52	D 5197	May 12, 2016	Na Li	160512\160512029.D
F11-43	061-033-53	D 5197	May 12, 2016	Na Li	160512\160512030.D
F11-44	061-033-54	D 5197	May 12, 2016	Na Li	160512\160512031.D
F11-45	061-033-55	D 5197	May 12, 2016	Na Li	160512\160512032.D
F11-46	061-033-56	D 5197	May 12, 2016	Na Li	160512\160512034.D
F11-47	061-033-57	D 5197	May 12, 2016	Na Li	160512\160512035.D
F11-48	061-033-58	D 5197	May 12, 2016	Na Li	160512\160512036.D
F11-49	061-033-59	D 5197	May 12, 2016	Na Li	160512\160512037.D

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Project Specific Information

Air samples for the analysis of formaldehyde (CAS # 50-00-0) and caprolactam (CAS # 105-60-2) were received by the laboratory on May 5, 2016. There were twenty-nine Waters DNPH cartridges for the analysis of formaldehyde and there were twenty-nine multi-sorbent tubes for caprolactam analysis. The analytical results for caprolactam are presented in Table 1. The analytical results for formaldehyde are presented in Table 2. 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.

Formaldehyde was analyzed by HPLC following ASTM Standard Method D5197. Formaldehyde was quantified using a multi-point (4 or more points) calibration curve.

Cartridge Blank – The average Waters DNPH cartridge blank for formaldehyde is 40 ng. The average cartridge blank was subtracted from a measured mass to determine a blank subtracted sample mass.

MDL and LOQ – A Method Detection Limit (MDL) for formaldehyde of 15 ng was determined from the analysis of ten replicates of a low level standard spiked onto DNPH cartridges. The practical lower limit of quantitation (LOQ) is three times the MDL.

Uncertainty – The laboratory uses the ISO GUM method to estimate the uncertainties associated with the measurement of formaldehyde. The expanded uncertainty is equal to two times the relative standard deviation. For 2015, the expanded uncertainty estimated for formaldehyde was <9.0%.

Caprolactam was analyzed by thermal desorption GC/MS following U.S. EPA Compendium Method TO-17. Caprolactam was quantified using a multi-point (4 or more points) calibration cure prepared with a pure standard.

MDL and LOQ – A Method Detection Limit (MDL) for caprolactam of 3.9 ng was determined from the analysis of three replicates of the low level standard spiked onto multisorbent air sampling tubes. The practical lower limit of quantitation (LOQ) is three times the MDL.

Uncertainty – The laboratory uses the ISO GUM method to estimate the uncertainties associated with the measurement of VOCs . The expanded uncertainty is equal to two times the relative standard deviation. For 2015, the expanded uncertainty estimated for caprolactam was 11%.

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.).

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Results, Formaldehyde

Table 2. Quantitative analysis of formaldehyde (CAS #50-00-0) Continued

Sample No.	Sample Name	Volume (L)	Measured Mass (ng)	Mass – Blank* (ng)	Conc (µg/m^3)	Conc** (ppb)
F11-41	8146	48.78	507	467	9.6	7.8
F11-42	9665	55.55	381	341	6.1	5.0
F11-43	9246	54.74	376	336	6.1	5.0
F11-44	9163	54.22	460	420	7.7	6.3
F11-45	9419	48.35	315	275	5.7	4.6
F11-46	13138	47.53	441	401	8.4	6.9
F11-47	13243	49.62	345	305	6.2	5.0
F11-48	13336	42.62	367	327	7.7	6.3
F11-49	13344	52.89	390	350	6.6	5.4

*Measured mass corrected for typical 40 ng formaldehyde cartridge blank.

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

END OF REPORT

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Results, Formaldehyde

Table 2. Quantitative analysis of formaldehyde (CAS #50-00-0)

Sample No.	Sample Name	Volume (L)	Measured Mass (ng)	Mass – Blank* (ng)	Conc (µg/m^3)	Conc** (ppb)
F11-21	15156	52.32	427	387	7.4	6.0
F11-22	15162	56.73	516	476	8.4	6.8
F11-23	16361	55.48	476	436	7.9	6.4
F11-24	16448	56.04	434	394	7.0	5.7
F11-25	16158	59.35	507	467	7.9	6.4
F11-26	16133	58.99	528	488	8.3	6.7
F11-27	17355	43.35	324	284	6.6	5.3
F11-28	17446	42.29	262	222	5.2	4.3
F11-29	17144	47.32	392	352	7.4	6.1
F11-30	18446	46.06	299	259	5.6	4.6
F11-31	18113	50.28	427	387	7.7	6.3
F11-32	18243	55.98	423	383	6.8	5.6
F11-33	18357	47.94	361	321	6.7	5.5
F11-34	19310	47.75	364	324	6.8	5.5
F11-35	19415	48.89	344	304	6.2	5.1
F11-36	19331	54.62	281	241	4.4	3.6
F11-37	19213	54.18	364	324	6.0	4.9
F11-38	8338	55.63	746	706	12.7	10.3
F11-39	8356	45.96	243	203	4.4	3.6
F11-40	8223	45.35	382	342	7.6	6.2

*Measured mass corrected for typical 40 ng formaldehyde cartridge blank.

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

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Results, Caprolactam

Table 1. Quantitative analysis of Caprolactam (CAS # 105-60-2) Continued

Sample No.	Sample Name	Volume (L)	Mass (ng)	Conc ($\mu g/m^3$)	Conc* (ppb)
C11-41	8146	5.231	51.8	9.9	2.1
C11-42	9665	5.785	13.2	2.3	0.5
C11-43	9246	5.678	38.4	6.8	1.5
C11-44	9163	5.807	60.1	10.3	2.2
C11-45	9419	5.000	37.8	7.6	1.6
C11-46	13138	4.916	59.2	12.0	2.6
C11-47	13243	5.208	43.5	8.3	1.8
C11-48	13336	4.427	81.7	18.4	4.0
C11-49	13344	5.486	66.1	12.1	2.6

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

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Results, Caprolactam

Table 1. Quantitative analysis of Caprolactam (CAS # 105-60-2).

Sample No.	Sample Name	Volume (L)	Mass (ng)	Conc ($\mu g/m^3$)	Conc* (ppb)
C11-21	15156	5.507	48.9	8.9	1.9
C11-22	15162	5.480	51.0	9.3	2.0
C11-23	16361	5.704	47.6	8.3	1.8
C11-24	16448	5.887	34.5	5.9	1.3
C11-25	16158	5.791	51.8	8.9	1.9
C11-26	16133	6.111	54.6	8.9	1.9
C11-27	17355	4.535	40.3	8.9	1.9
C11-28	17446	4.095	24.1	5.9	1.3
C11-29	17144	4.840	44.0	9.1	2.0
C11-30	18446	4.825	29.2	6.0	1.3
C11-31	18113	4.764	49.6	10.4	2.3
C11-32	18243	5.737	68.7	12.0	2.6
C11-33	18357	5.005	47.4	9.5	2.0
C11-34	19310	4.922	50.0	10.2	2.2
C11-35	19415	5.125	29.8	5.8	1.3
C11-36	19331	5.788	45.3	7.8	1.7
C11-37	19213	5.686	52.4	9.2	2.0
C11-38	8338	5.932	97.9	16.5	3.6
C11-39	8356	4.822	51.6	10.7	2.3
C11-40	8223	4.731	66.9	14.1	3.1

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

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CHAIN-OF-CUSTODY RECORD for ANALYTICAL SERVICES

2009 Update

Client Information*	
Company: USEPA	
Street Address: 75 HAWTHORNE ST	
City/State/Zip Code: San Francisco 94105	
Country:	Contact (for reporting): Jeff Woodlee
Project/Job Name: 75 HAWTHORNE IAQ	
Project/Job #:	P.O. #:
Phone: (415) 972-3740	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
Mi193227	C11-21	5/3/16	57	5.507	15156	b – Caprolactam	
Mi59930	C11-22		58	5.480	15162		
Mi59928	C11-23		58	5.704	16361		
242492	C11-24		61	5.887	16448		
Mi51172	C11-25		61	5.791	16158		
Mi193211	C11-26		62	6.111	16133		
Mi51136	C11-27		47	4.535	17355		
203137	C11-28		43	4.095	17446		
203112	C11-29		49	4.840	17144		
242485	C11-30		50	4.825	18446		

Sample(s) Handling

Relinquished By	Received By	Signature	Date	Company
Jeff Woodlee			5/5/16	USEPA
	A.J. Hodgson		5/5/16	BKA

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CHAIN-OF-CUSTODY RECORD for ANALYTICAL SERVICES

2009 Update

Client Information*		
Company:	US EPA	
Street Address:		
City/State/Zip Code:		
Country:	Contact (for reporting): Jeff Woodlee	
Project/Job Name:		
Project/Job #:		P.O. #:
Phone:		Fax:
E-mail address:		

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

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

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
Mi193284	C11-31	5/3/16	50	4.764	18113	b -	Caprolactam
242455	C11-32		58	5.737	18243		
242468	C11-33		52	5.005	18357		
203164	C11-34		52	4.922	19310		
203195	C11-35		52	5.125	19415		
203154	C11-36		60	5.788	19331		
Mi51114	C11-37		60	5.686	19213		
Mi51111	C11-38		60	5.932	8338		
203119	C11-39		50	4.822	8356		
242403	C11-40		50	4.731	8223		

Sample(s) Handling

Relinquished By	Received By	Signature	Date	Company
Jeff Woodlee			5/5/16	US EPA
	A.T. Hodgson	A.T. Hodgson	5/5/16	AH BAA

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CHAIN-OF-CUSTODY RECORD for ANALYTICAL SERVICES

2009 Update

Client Information*	
Company: US EPA	
Street Address:	
City/State/Zip Code:	
Country:	Contact (for reporting): Jeff Woodlee
Project/Job Name:	
Project/Job #:	P.O. #:
Phone:	Fax:
E-mail address:	

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
203118	C11-41	5/4/16	53	5.231	8146	b – caprolactam	
R42450	C11-42	↓	60	5.785	9365	↓	
203127	C11-43		60	5.678	9246		
203163	C11-44		59	5.807	9163		
203178	C11-45		52	5.000	9419		
Mi58832	C11-46		52	4.916	13138		
203134	C11-47		53	5.208	13243		
Mi93225	C11-48		46	4.427	13336		
Mi51177	C11-49	↓	58	5.486	13344	↓	

Sample(s) Handling

Relinquished By	Received By	Signature	Date	Company
Jeff Woodlee			5/5/16	USEPA
	G. A. Hodgson	[illegible]	5/5/16	BKA

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CHAIN-OF-CUSTODY RECORD for ANALYTICAL SERVICES

2009 Update

Client Information*	
Company: USEPA	
Street Address: 75 HAWTHORNE ST	
City/State/Zip Code: San Francisco 94105	
Country:	Contact (for reporting): Jeff Woodlee
Project/Job Name: 75 HAWTHORNE IAQ	
Project/Job #:	P.O. #:
Phone: (415) 972-3740	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
	C11-21	5/3/16	57	5.507	15156	b – Caprolactam	
	C11-22		58	5.480	15162		
	C11-23		58	5.704	16361		
	C11-24		61	5.887	16448		
	C11-25		61	5.791	16158		
	C11-26		62	6.111	16133		
	C11-27		47	4.535	17355		
	C11-28		43	4.095	17446		
	C11-29		49	4.840	17144		
	C11-30		50	4.825	18446		

Sample(s) Handling

Relinquished By	Received By	Signature	Date	Company
Jeff Woodlee			5/5/16	USEPA
	A.T. Hodgson		5/5/16	BKA

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CHAIN-OF-CUSTODY RECORD for ANALYTICAL SERVICES

2009 Update

Client Information*		
Company:	US EPA	
Street Address:		
City/State/Zip Code:		
Country:	Contact (for reporting): Jeff Woodlee	
Project/Job Name:		
Project/Job #:		P.O. #:
Phone:		Fax:
E-mail address:		

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
	C11-31	5/3/16	50	4.764	18113	b –	Caprolactam
	C11-32		58	5.737	18243		
	C11-33		52	5.005	18357		
	C11-34		52	4.922	19310		
	C11-35		52	5.125	19415		
	C11-36		60	5.788	19331		
	C11-37		60	5.686	19213		
	C11-38		60	5.932	8338		
	C11-39		50	4.822	8356		
	C11-40		50	4.731	8223		

Sample(s) Handling

Relinquished By	Received By	Signature	Date	Company
Jeff Woodlee			5/5/16	US EPA
	A.T. Hodgson	A.S. Hodgson	5/5/16	ATH BAA

JC0461-033

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CHAIN-OF-CUSTODY RECORD for ANALYTICAL SERVICES

2009 Update

Client Information*	
Company: US EPA	
Street Address:	
City/State/Zip Code:	
Country:	Contact (for reporting): Jeff Woodlee
Project/Job Name:	
Project/Job #:	P.O. #:
Phone:	Fax:
E-mail address:	

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
	C11-41	5/4/16	53	5.231	8146	b – caprolactam	
	C11-42	↓	60	5.785	9365	↓	
	C11-43		60	5.678	9246		
	C11-44		59	5.807	9163		
	C11-45		52	5.000	9419		
	C11-46		52	4.916	13138		
	C11-47		53	5.208	13243		
	C11-48		46	4.427	13336		
	C11-49	↓	58	5.486	13344	↓	

Sample(s) Handling

Relinquished By	Received By	Signature	Date	Company
Jeff Woodlee			5/5/16	USEPA
	G A T Hodgson	[illegible]	5/5/16	BKA

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CHAIN-OF-CUSTODY RECORD for ANALYTICAL SERVICES

2009 Update

Client Information*		
Company:	US EPA	
Street Address:		
City/State/Zip Code:		
Country:	Contact (for reporting): Jeff Woodlee	
Project/Job Name:		
Project/Job #:		P.O. #:
Phone:		Fax:
E-mail address:		

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
	F11-21	5/3/16	57	52.32	15156	f	
	F11-22		58	56.73	15162		
	F11-23		58	55.48	16361		
	F11-24		61	56.04	16448		
	F11-25		61	59.35	16158		
	F11-26		62	58.99	16133		
	F11-27		47	43.35	17355		
	F11-28		43	42.29	17446		
	F11-29		49	47.32	17144		
	F11-30		50	46.06	18446		

Sample(s) Handling

Relinquished By	Received By	Signature	Date	Company
Jeff Woodlee			5/5/16	US EPA
	A.T. Hodgson		5/5/16	BAA

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CHAIN-OF-CUSTODY RECORD for ANALYTICAL SERVICES

2009 Update

Client Information*		
Company:	US EPA	
Street Address:		
City/State/Zip Code:		
Country:	Contact (for reporting): Jeff Woodee	
Project/Job Name:		
Project/Job #:		P.O. #:
Phone:		Fax:
E-mail address:		

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
	F11-31	5/3/16	50	50.28	18113	f	
	F11-32		58	55.98	18243		
	F11-33		52	47.94	18357		
	F11-34		52	47.75	19310		
	F11-35		52	48.89	19415		
	F11-36		60	54.62	19331		
	F11-37		60	54.18	19213		
	F11-38		60	55.63	8338		
	F11-39		50	45.96	8356		
	F11-40		50	45.35	8223		

Sample(s) Handling

Relinquished By	Received By	Signature	Date	Company
Jeff Woodee			5/5/16	US EPA
	A.T. Hodson		5/5/16	BAA

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CHAIN-OF-CUSTODY RECORD for ANALYTICAL SERVICES

2009 Update

Client Information*	
Company:	US EPA
Street Address:	
City/State/Zip Code:	
Country:	Contact (for reporting): Jeff Woodlee
Project/Job Name:	
Project/Job #:	P.O. #:
Phone:	Fax:
E-mail address:	

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
	F11-41	5/4/16	53	48.78	8146	f	
	F11-42		60	55.55	9365		
	F11-43		60	54.74	9246		
	F11-44		59	54.22	9163		
	F11-45		52	48.35	9419		
	F11-46		52	47.53	13138		
	F11-47		53	49.62	13243		
	F11-48		46	42.62	13336		
	F11-49		58	52.84	13344		

Sample(s) Handling

Relinquished By	Received By	Signature	Date	Company
Jeff Woodlee			5/5/16	US EPA
	A.T. Hodgson		5/5/16	BAA

JC061-033

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HCHO\JC061-033_EPA.XLS
Created 5/13/16, rgill

US EPA
Formaldehyde Analysis
Sequence 160512
Method FORMALDEHYDE.M

40 Typical cartridge blank

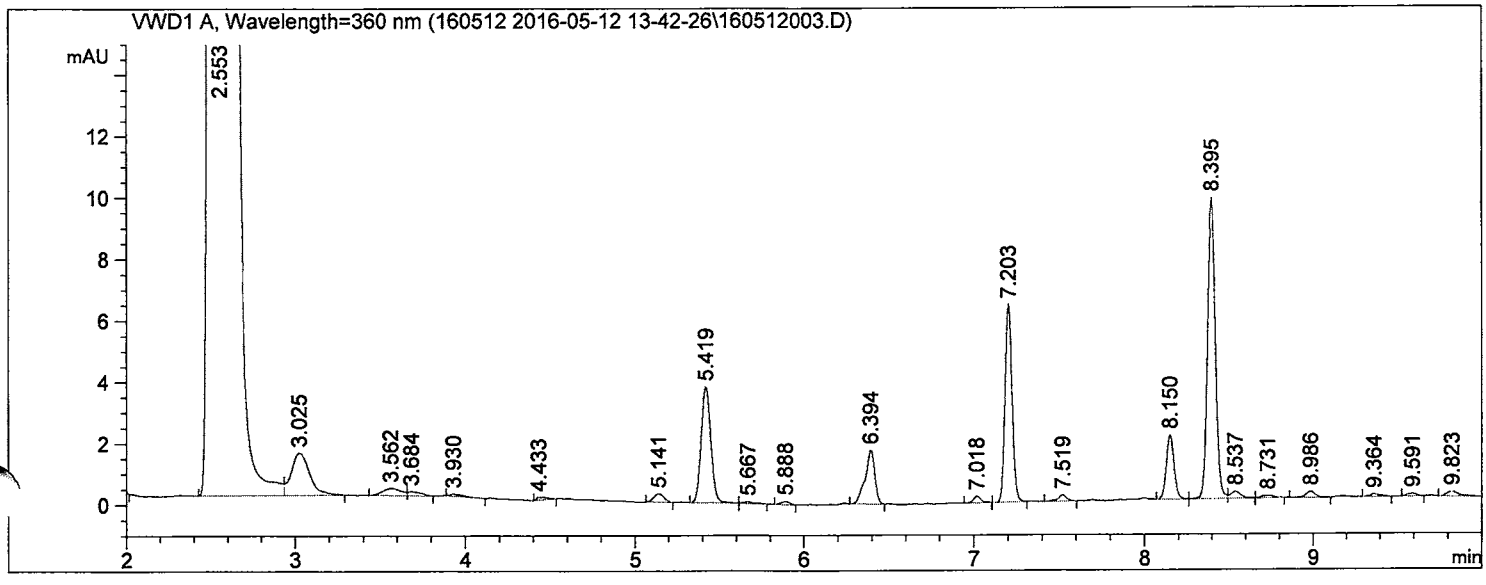
File	Sample ID	Rt min	Meas Conc ng/ul	Meas Mass ng	Mass -Blnk ng	Volume L	Conc ng/L	Conc ppbv
160512\160512003.D	F11-21	5.412		427	387	52.32	7.4	6.0
160512\160512004.D	F11-22	5.417		516	476	56.73	8.4	6.8
160512\160512005.D	F11-23	5.419		476	436	55.48	7.9	6.4
160512\160512006.D	F11-24	5.420		434	394	56.04	7.0	5.7
160512\160512007.D	F11-25	5.420		507	467	59.35	7.9	6.4
160512\160512009.D	F11-26	5.421		528	488	58.99	8.3	6.7
160512\160512010.D	F11-27	5.421		324	284	43.35	6.6	5.3
160512\160512011.D	F11-28	5.421		262	222	42.29	5.2	4.3
160512\160512012.D	F11-29	5.422		392	352	47.32	7.4	6.1
160512\160512013.D	F11-30	5.424		299	259	46.06	5.6	4.6
160512\160512015.D	F11-31	5.422		427	387	50.28	7.7	6.3
160512\160512016.D	F11-32	5.424		423	383	55.98	6.8	5.6
160512\160512017.D	F11-33	5.423		361	321	47.94	6.7	5.5
160512\160512018.D	F11-34	5.426		364	324	47.75	6.8	5.5
160512\160512020.D	F11-35	5.424		344	304	48.89	6.2	5.1
160512\160512022.D	F11-36	5.416		281	241	54.62	4.4	3.6
160512\160512023.D	F11-37	5.417		364	324	54.18	6.0	4.9
160512\160512024.D	F11-38	5.417		746	706	55.63	12.7	10.3
160512\160512025.D	F11-39	5.416		243	203	45.96	4.4	3.6
160512\160512027.D	F11-40	5.420		382	342	45.35	7.6	6.2
160512\160512028.D	F11-41	5.421		507	467	48.78	9.6	7.8
160512\160512029.D	F11-42	5.421		381	341	55.55	6.1	5.0
160512\160512030.D	F11-43	5.421		376	336	54.74	6.1	5.0
160512\160512031.D	F11-44	5.421		460	420	54.22	7.7	6.3
160512\160512032.D	F11-45	5.422		315	275	48.35	5.7	4.6
160512\160512034.D	F11-46	5.423		441	401	47.53	8.4	6.9
160512\160512035.D	F11-47	5.420		345	305	49.62	6.2	5.0
160512\160512036.D	F11-48	5.421		367	327	42.62	7.7	6.3
160512\160512037.D	F11-49	5.419		390	350	52.89	6.6	5.4

Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512003.D
Sample Name: 061-033-31

==========

Acq. Operator : SYSTEM Seq. Line : 2
Acq. Instrument : Agilent 1260 Location : Vial 2
Injection Date : 5/12/2016 2:16:24 PM Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-31; F11-21; Collected 5/3/2016; 15156; 52.32L



==========

External Standard Report

==========

Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.419	1	BV	15.07825	1.41609e-2	427.04242		Formaldehyde;50-00-0
6.394	1	BB	6.93169	1.87813e-2	260.37216		Acetaldehyde;75-07-0

Totals : 687.41458

==========

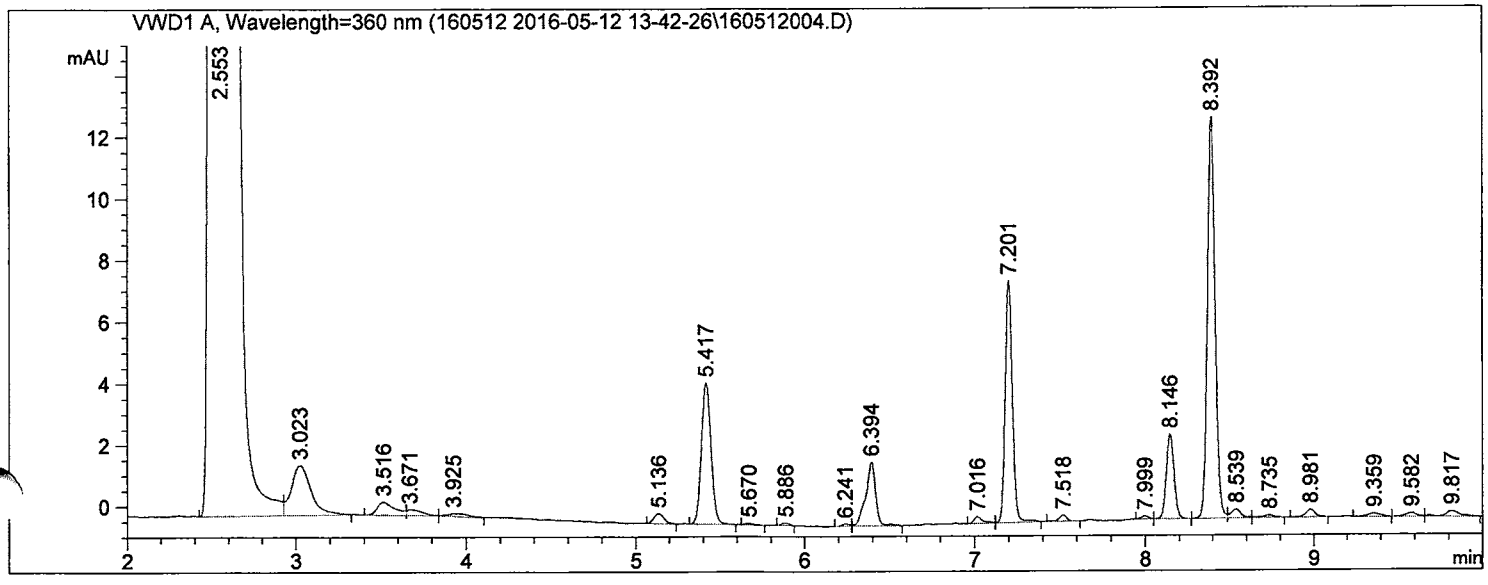
*** End of Report ***

Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512004.D
Sample Name: 061-033-32

Acq. Operator	: SYSTEM	Seq. Line :	3
Acq. Instrument	: Agilent 1260	Location :	Vial 3
Injection Date	: 5/12/2016 2:33:03 PM	Inj :	1
		Inj Volume :	2.000 µl

Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-32; F11-22; Collected 5/3/2016; 15162; 56.73L



External Standard Report

Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.417	1	BB	18.22268	1.41609e-2	516.09814		Formaldehyde;50-00-0
6.394	1	VB	8.46110	1.87813e-2	317.82063		Acetaldehyde;75-07-0
Totals :					833.91877		

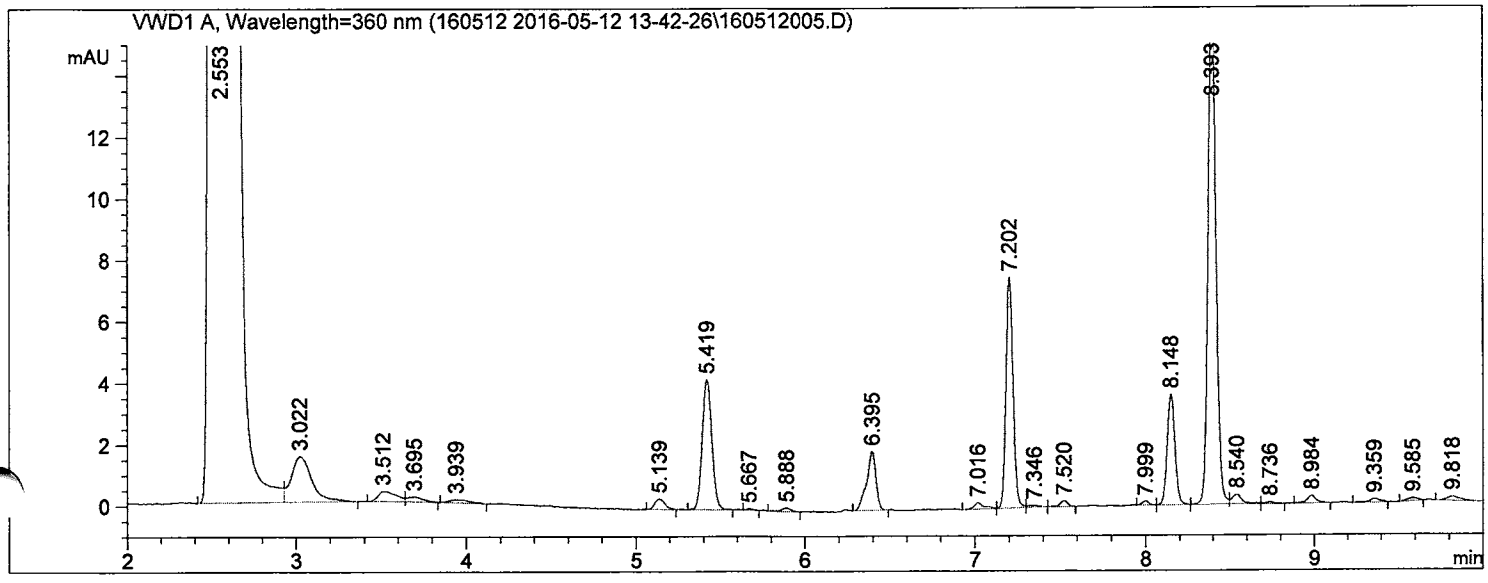
*** End of Report ***

Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512005.D
Sample Name: 061-033-33

==========

Acq. Operator : SYSTEM Seq. Line : 4
Acq. Instrument : Agilent 1260 Location : Vial 4
Injection Date : 5/12/2016 2:49:43 PM Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-33; F11-23; Collected 5/3/2016; 16361; 55.48L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.419	1	BB	16.81671	1.41609e-2	476.27857		Formaldehyde;50-00-0
6.395	1	BB	7.31103	1.87813e-2	274.62113		Acetaldehyde;75-07-0

Totals : 750.89971

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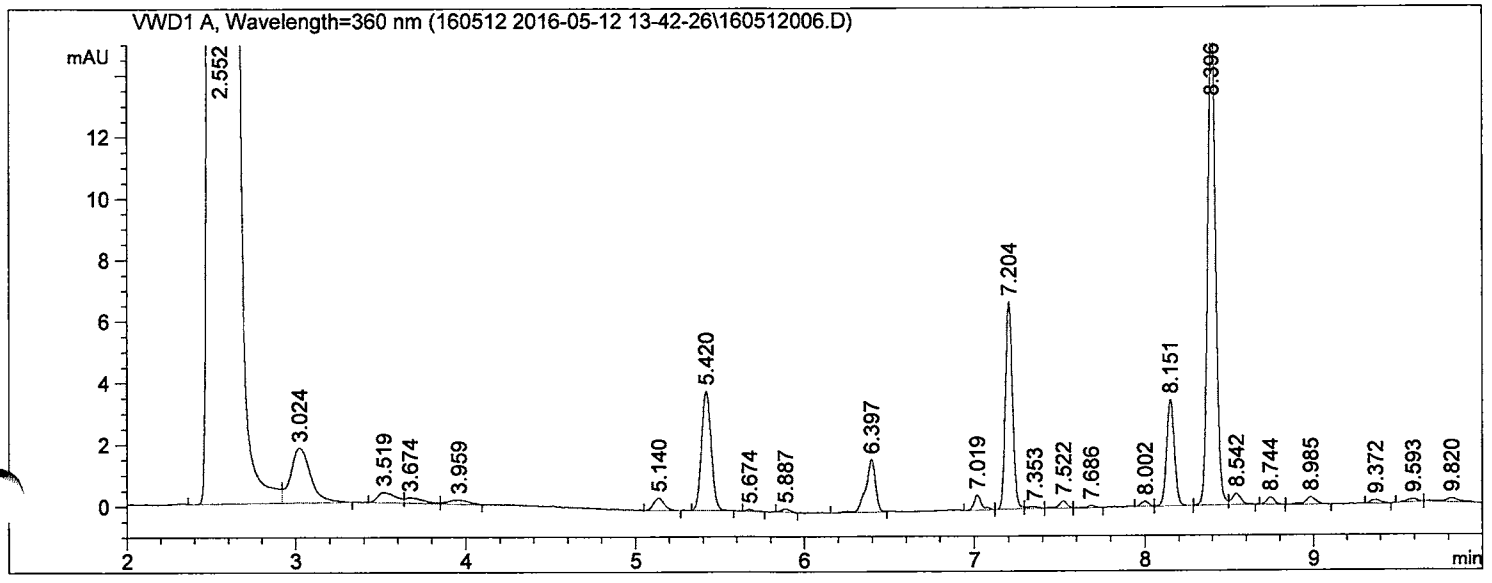
*** End of Report ***

Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512006.D
Sample Name: 061-033-34

==========

Acq. Operator : SYSTEM Seq. Line : 5
Acq. Instrument : Agilent 1260 Location : Vial 5
Injection Date : 5/12/2016 3:06:23 PM Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-34; F11-24; Collected 5/3/2016; 16448; 56.04L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.420	1	BB	15.31249	1.41609e-2	433.67647		Formaldehyde;50-00-0
6.397	1	BV	6.88271	1.87813e-2	258.53235		Acetaldehyde;75-07-0

Totals : 692.20882

==========

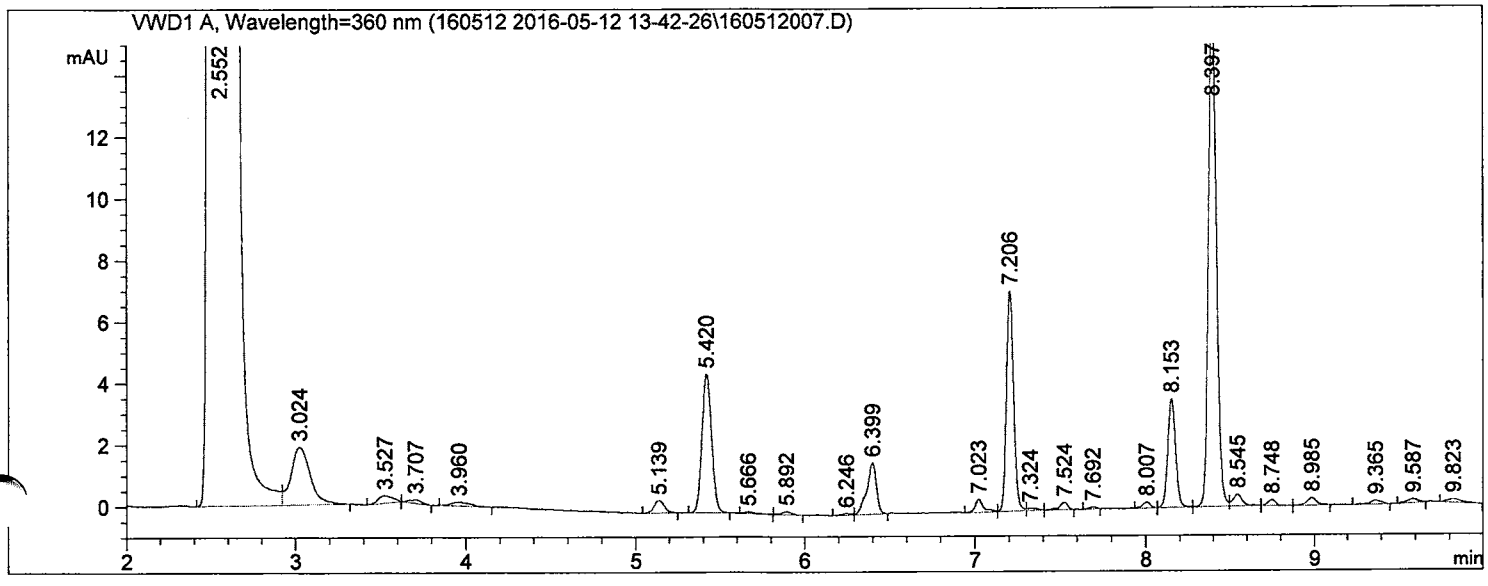
*** End of Report ***

Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512007.D
Sample Name: 061-033-35

==========

Acq. Operator : SYSTEM
Seq. Line : 6
Acq. Instrument : Agilent 1260
Location : Vial 6
Injection Date : 5/12/2016 3:23:04 PM
Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-35; F11-25; Collected 5/3/2016; 16158; 59.35L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.420	1	BB	17.89970	1.41609e-2	506.95081		Formaldehyde;50-00-0
6.399	1	VV	6.61537	1.87813e-2	248.49017		Acetaldehyde;75-07-0

Totals : 755.44098

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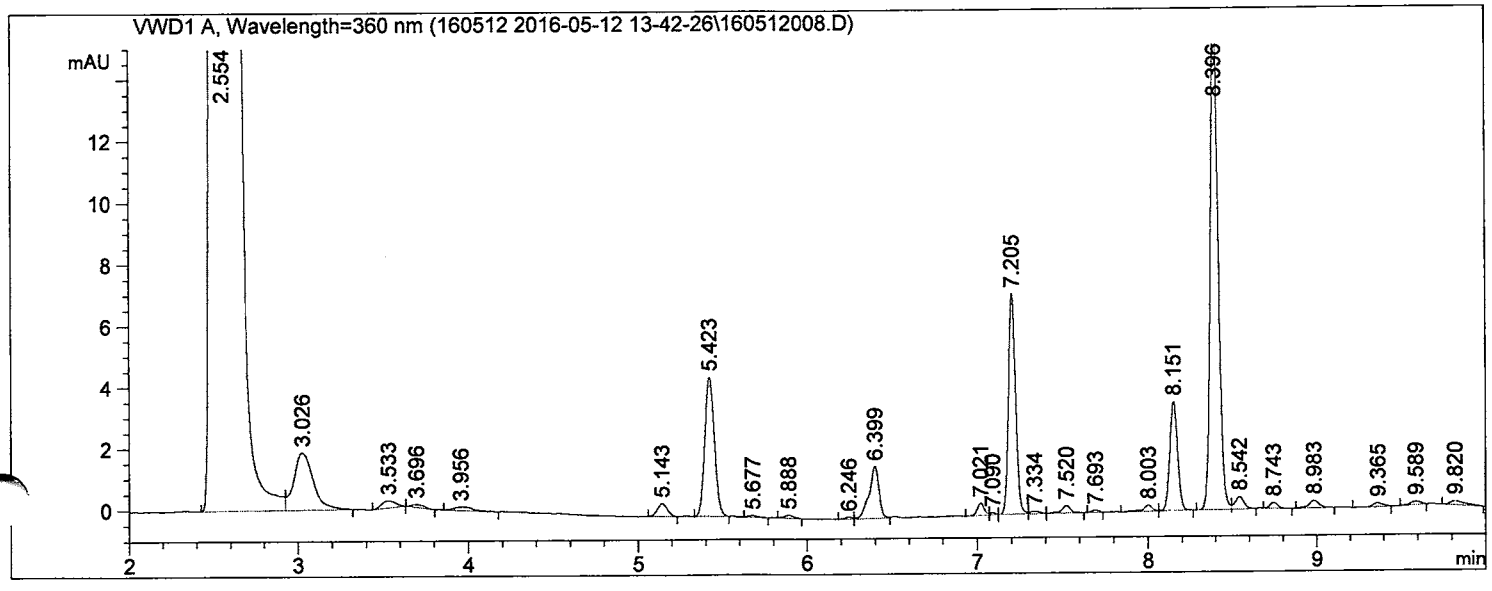
*** End of Report ***

Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512008.D
Sample Name: 061-033-35

Acq. Operator	: SYSTEM	Seq. Line :	6
Acq. Instrument	: Agilent 1260	Location :	Vial 6
Injection Date	: 5/12/2016 3:39:44 PM	Inj :	2
		Inj Volume :	2.000 µl

Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-35; F11-25; Collected 5/3/2016; 16158; 59.35L



External Standard Report

Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.423	1	BB	17.83444	1.41609e-2	505.10253		Formaldehyde;50-00-0
6.399	1	VV	6.78566	1.87813e-2	254.88688		Acetaldehyde;75-07-0

Totals : 759.98942

*** End of Report ***

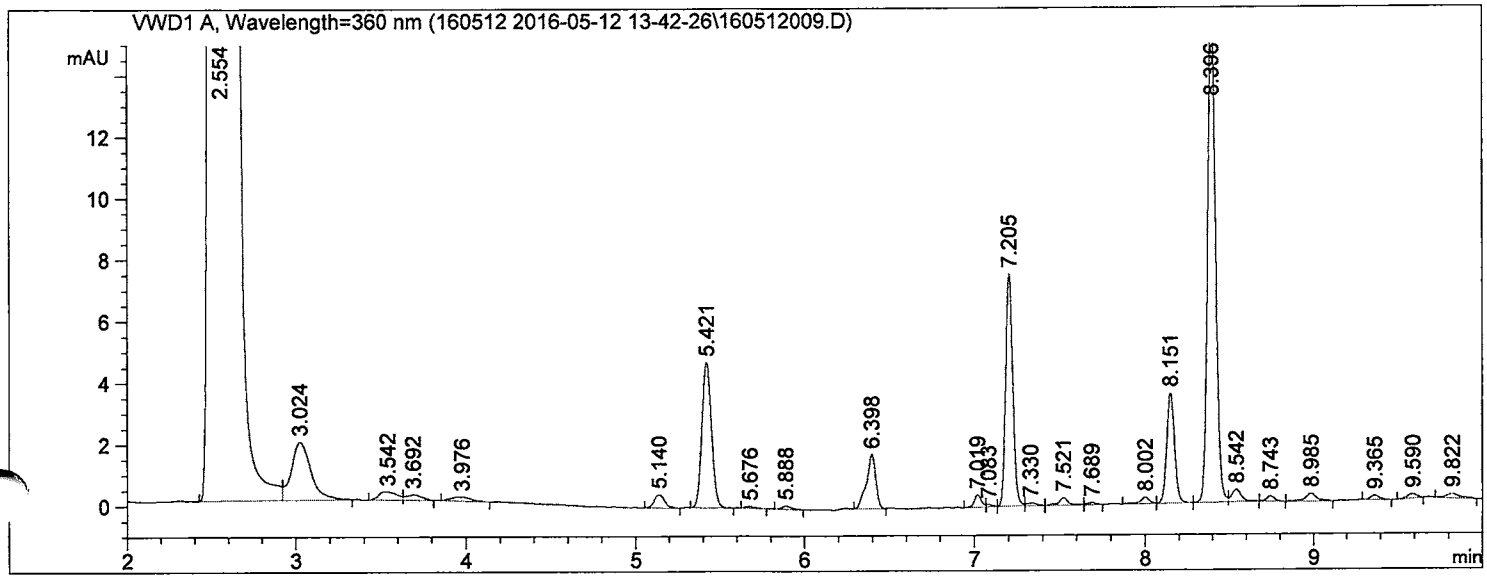
Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512009.D
Sample Name: 061-033-36

==========

Acq. Operator : SYSTEM Seq. Line : 7
Acq. Instrument : Agilent 1260 Location : Vial 7
Injection Date : 5/12/2016 3:56:23 PM Inj : 1
Inj Volume : 2.000 µl

Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-36; F11-26; Collected 5/3/2016; 16133; 58.99L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.421	1	BB	18.64239	1.41609e-2	527.98495		Formaldehyde;50-00-0
6.398	1	BV	6.75057	1.87813e-2	253.56883		Acetaldehyde;75-07-0

Totals : 781.55378

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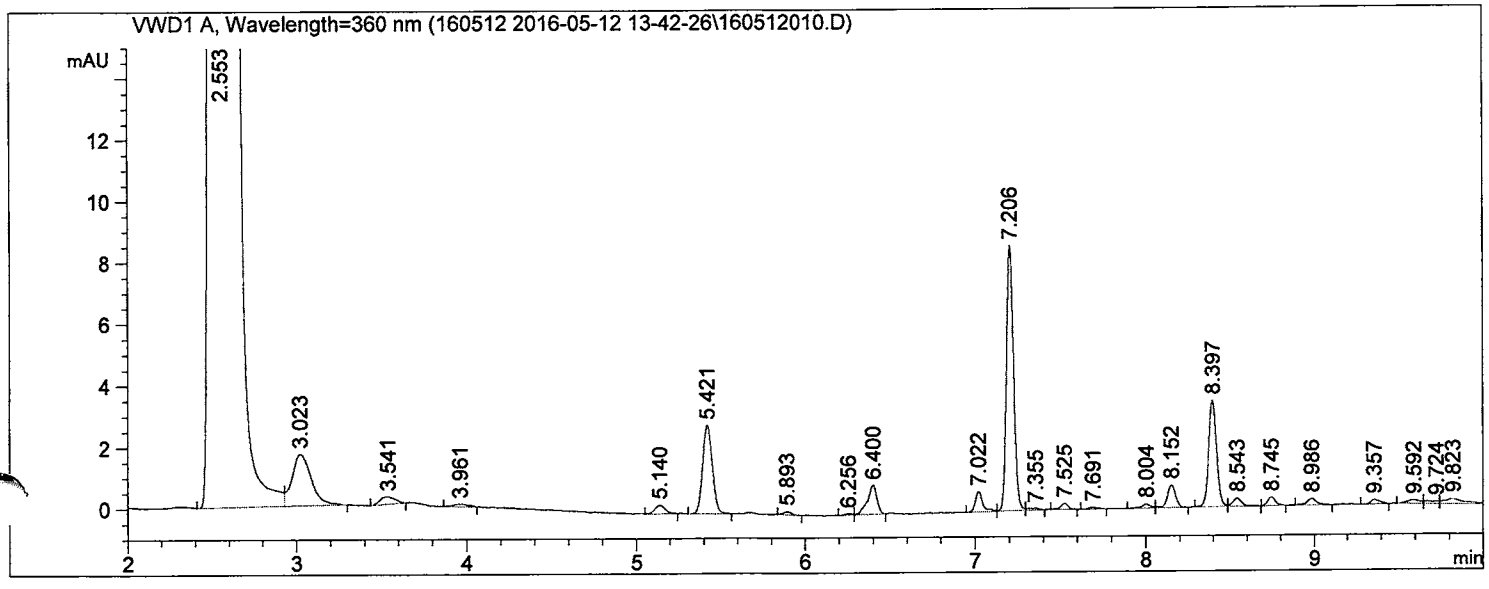
*** End of Report ***

Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512010.D
Sample Name: 061-033-37

==========

Acq. Operator : SYSTEM
Seq. Line : 8
Acq. Instrument : Agilent 1260
Location : Vial 8
Injection Date : 5/12/2016 4:13:04 PM
Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-37; F11-27; Collected 5/3/2016; 17355; 43.35L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.421	1	BB	11.44539	1.41609e-2	324.15352		Formaldehyde;50-00-0
6.400	1	VB	3.67455	1.87813e-2	138.02560		Acetaldehyde;75-07-0

Totals : 462.17912

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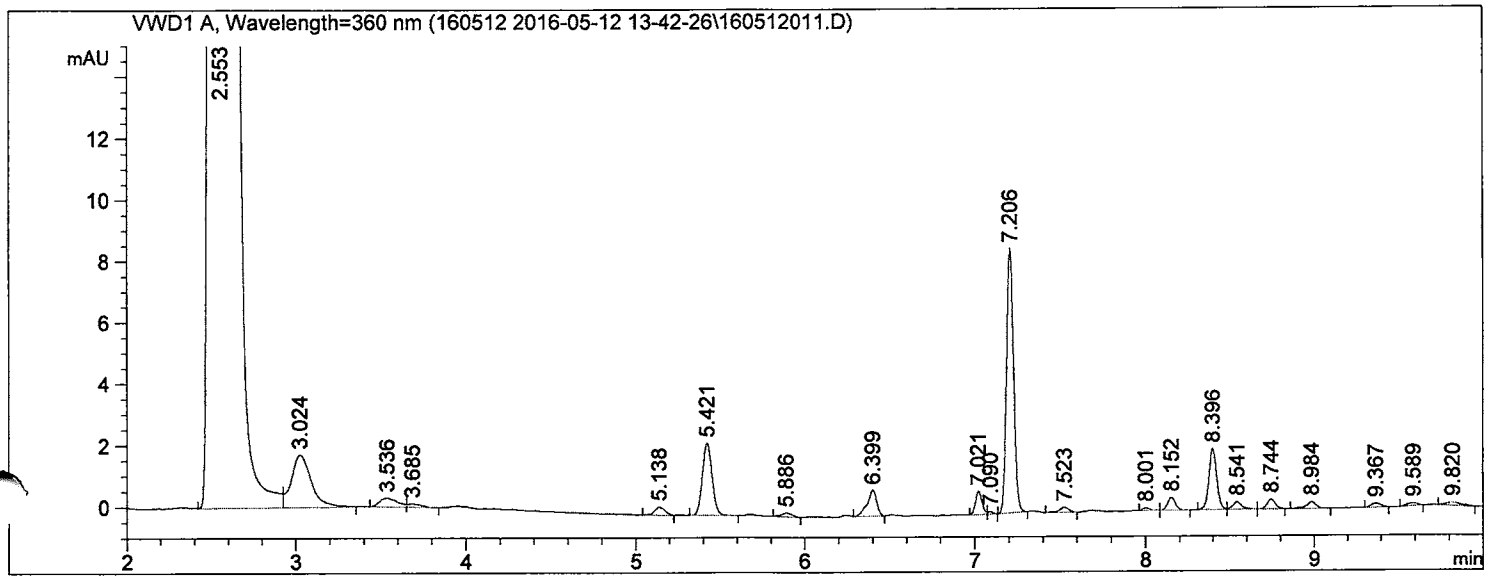
*** End of Report ***

Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512011.D
Sample Name: 061-033-38

==========

Acq. Operator : SYSTEM Seq. Line : 9
Acq. Instrument : Agilent 1260 Location : Vial 9
Injection Date : 5/12/2016 4:29:44 PM Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-38; F11-28; Collected 5/3/2016; 17446; 42.29L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.421	1	BB	9.24273	1.41609e-2	261.77012		Formaldehyde;50-00-0
6.399	1	BB	3.23552	1.87813e-2	121.53430		Acetaldehyde;75-07-0

Totals : 383.30442

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*** End of Report ***

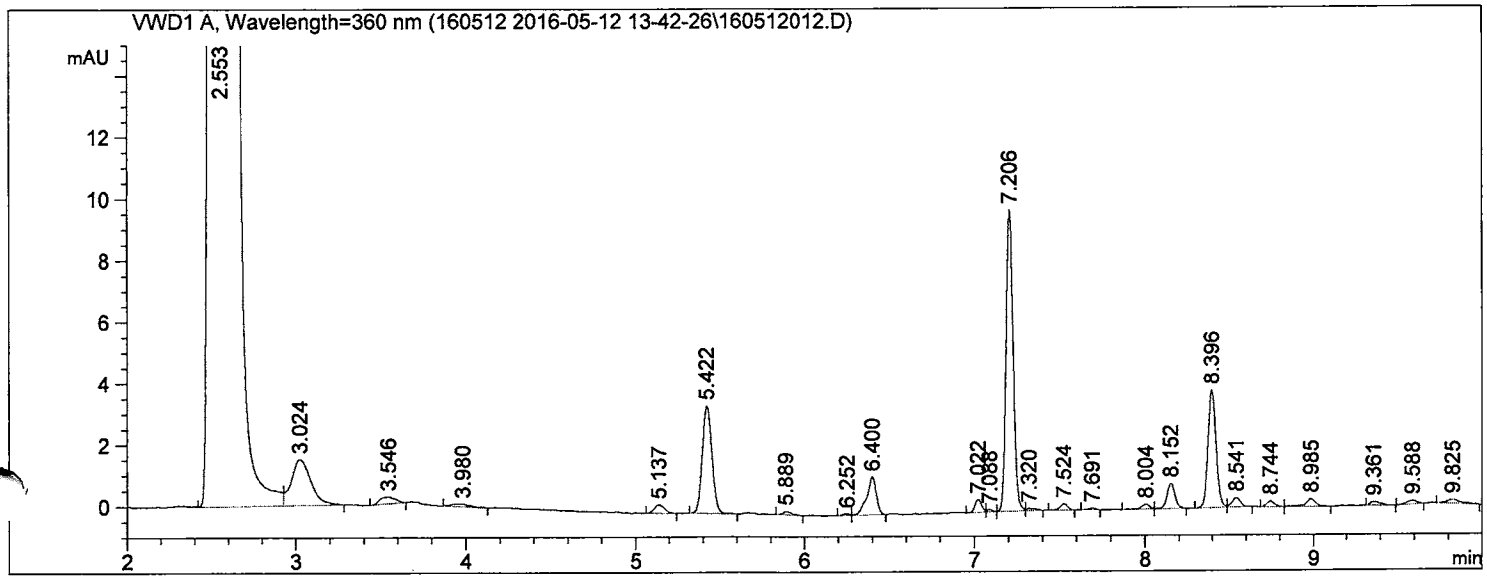
Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512012.D
Sample Name: 061-033-39

==========

Acq. Operator : SYSTEM Seq. Line : 10
Acq. Instrument : Agilent 1260 Location : Vial 10
Injection Date : 5/12/2016 4:46:26 PM Inj : 1
Inj Volume : 2.000 µl

Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-39; F11-29; Collected 5/3/2016; 17144; 47.32L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.422	1	BB	13.83445	1.41609e-2	391.81581		Formaldehyde;50-00-0
6.400	1	VB	4.82193	1.87813e-2	181.12422		Acetaldehyde;75-07-0

Totals : 572.94002

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*** End of Report ***

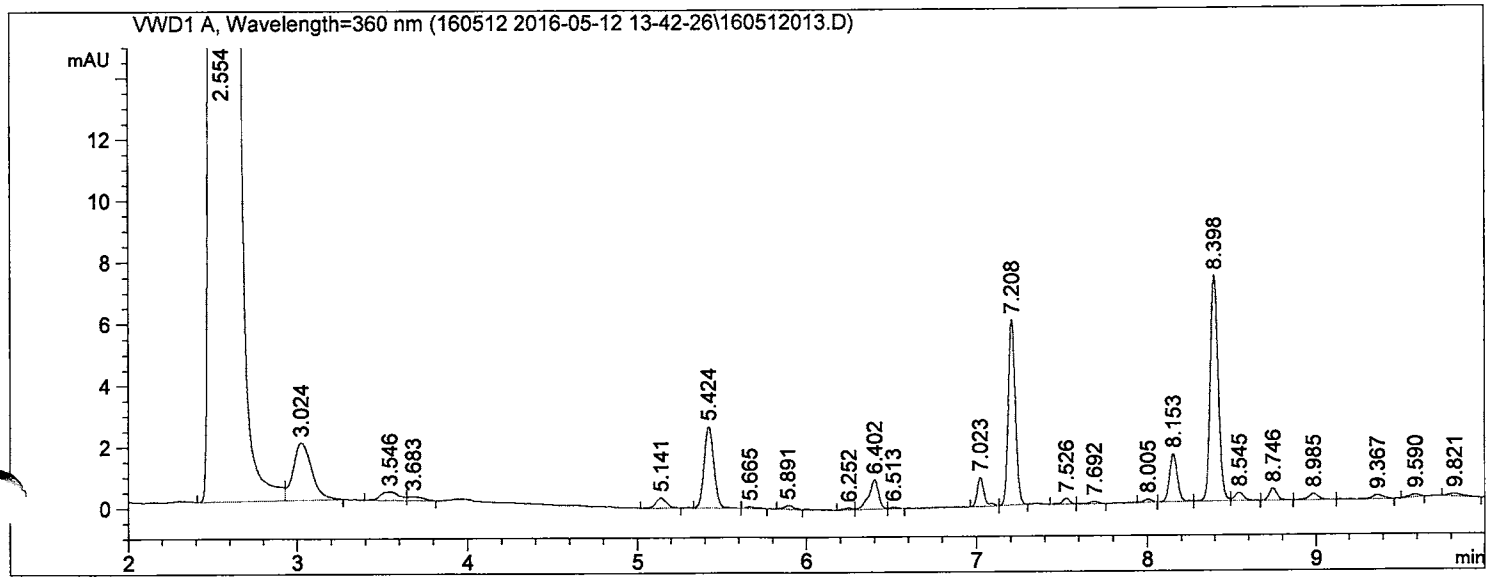
Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512013.D
Sample Name: 061-033-40

==========

Acq. Operator : SYSTEM
Seq. Line : 11
Acq. Instrument : Agilent 1260
Location : Vial 11
Injection Date : 5/12/2016 5:03:09 PM
Inj : 1
Inj Volume : 2.000 µl

Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-40; F11-30; Collected 5/3/2016; 18446; 46.06L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.424	1	BB	10.56261	1.41609e-2	299.15146		Formaldehyde;50-00-0
6.402	1	VV	3.83180	1.87813e-2	143.93229		Acetaldehyde;75-07-0

Totals : 443.08374

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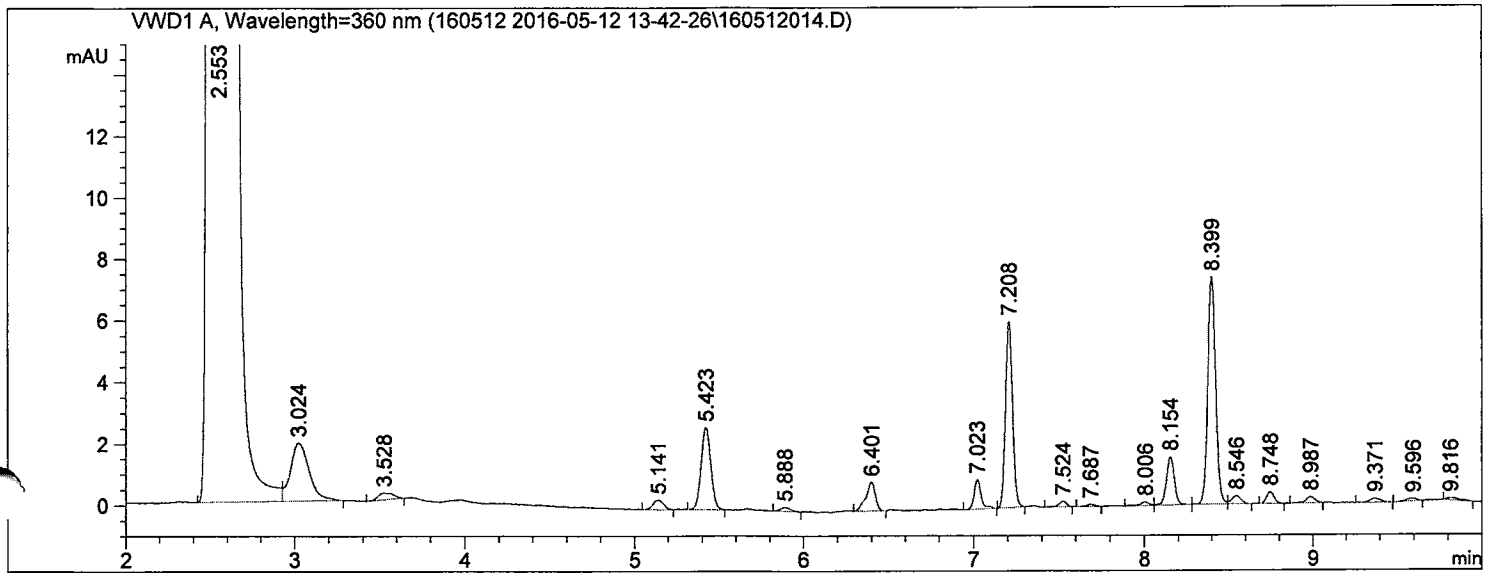
*** End of Report ***

Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512014.D
Sample Name: 061-033-40

==========

Acq. Operator : SYSTEM Seq. Line : 11
Acq. Instrument : Agilent 1260 Location : Vial 11
Injection Date : 5/12/2016 5:19:50 PM Inj : 2
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-40; F11-30; Collected 5/3/2016; 18446; 46.06L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.423	1	BB	10.58249	1.41609e-2	299.71469		Formaldehyde;50-00-0
6.401	1	BB	3.59546	1.87813e-2	135.05455		Acetaldehyde;75-07-0

Totals : 434.76924

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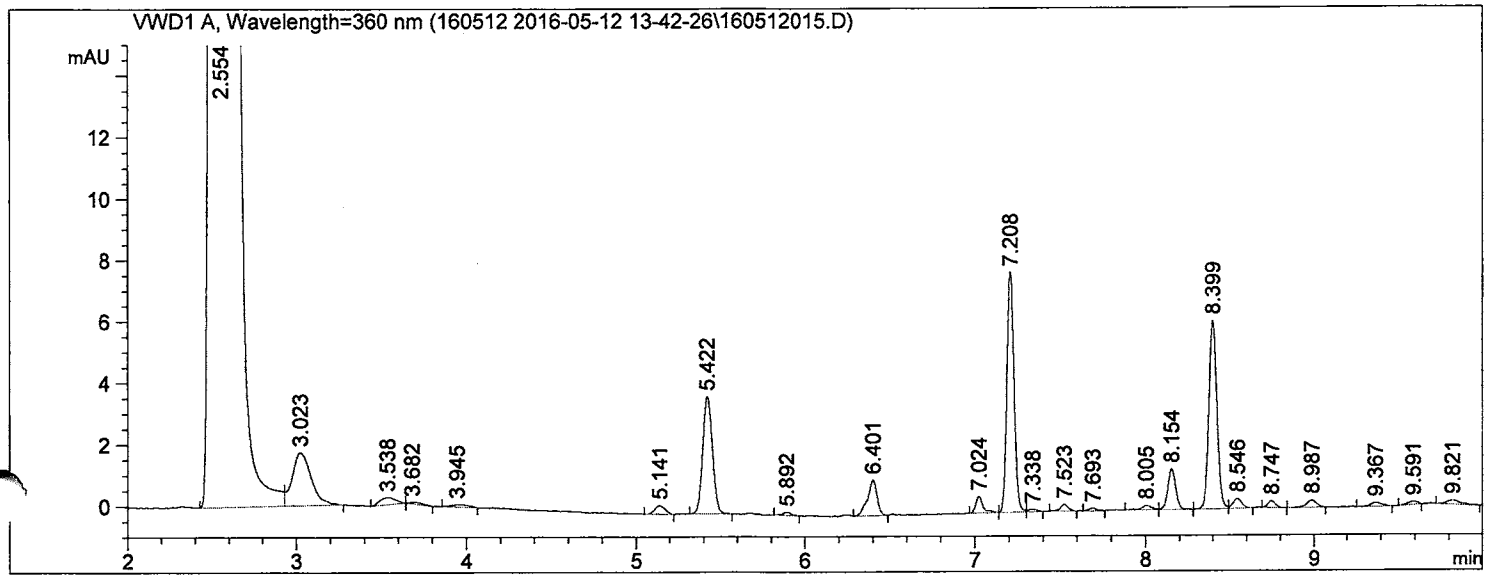
*** End of Report ***

Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512015.D
Sample Name: 061-033-41

==========

Acq. Operator : SYSTEM Seq. Line : 12
Acq. Instrument : Agilent 1260 Location : Vial 12
Injection Date : 5/12/2016 5:36:33 PM Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-41; F11-31; Collected 5/3/2016; 18113; 50.28L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.422	1	BB	15.08498	1.41609e-2	427.23306		Formaldehyde;50-00-0
6.401	1	BB	4.50646	1.87813e-2	169.27431		Acetaldehyde;75-07-0

Totals : 596.50736

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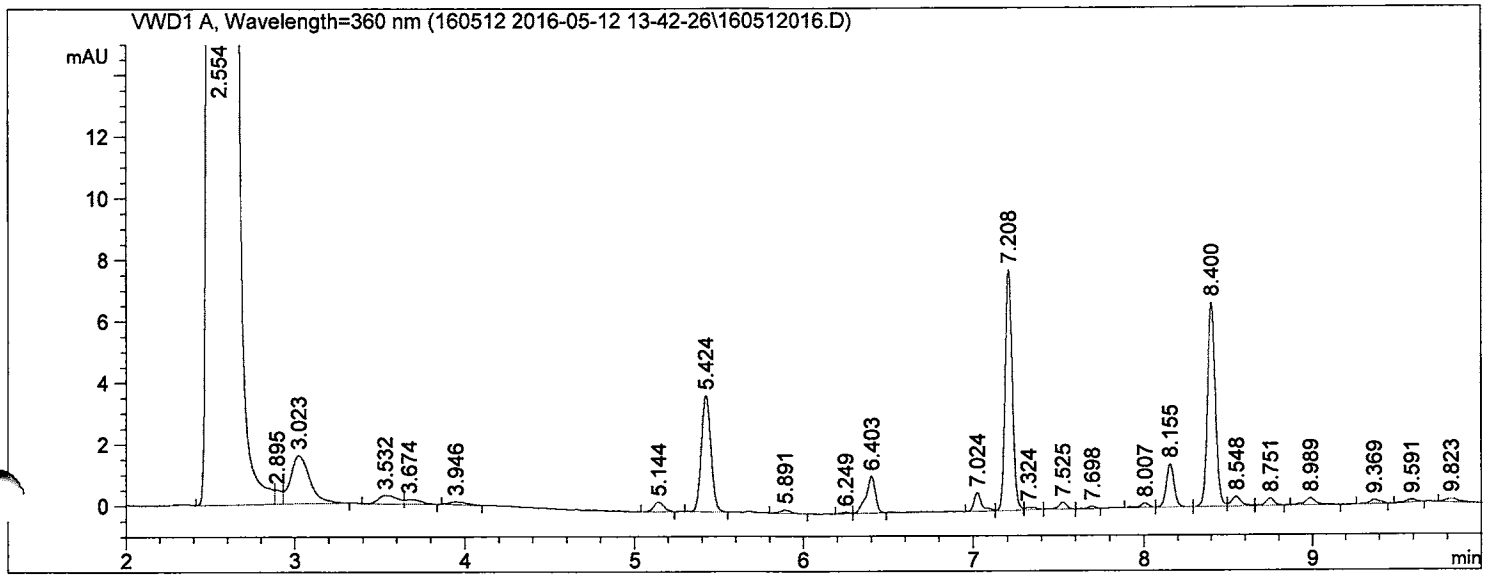
*** End of Report ***

Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512016.D
Sample Name: 061-033-42

==========

Acq. Operator : SYSTEM Seq. Line : 13
Acq. Instrument : Agilent 1260 Location : Vial 13
Injection Date : 5/12/2016 5:53:13 PM Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-42; F11-32; Collected 5/3/2016; 18243; 55.98L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.424	1	BB	14.92642	1.41609e-2	422.74210		Formaldehyde;50-00-0
6.403	1	VB	4.60669	1.87813e-2	173.03893		Acetaldehyde;75-07-0

Totals : 595.78102

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*** End of Report ***

Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512017.D
Sample Name: 061-033-43

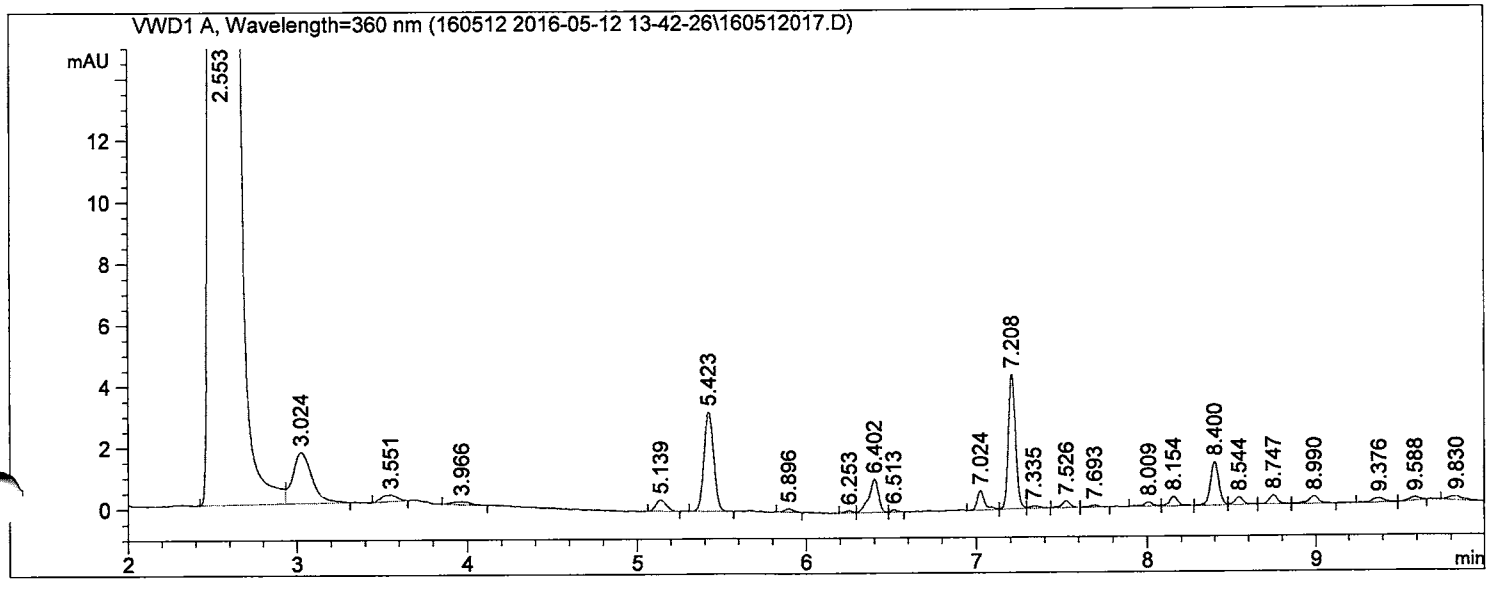
==========

Acq. Operator : SYSTEM
Acq. Instrument : Agilent 1260
Injection Date : 5/12/2016 6:09:53 PM

Seq. Line : 14
Location : Vial 14
Inj : 1
Inj Volume : 2.000 µl

Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-43; F11-33; Collected 5/3/2016; 18357; 47.94L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.423	1	BB	12.75442	1.41609e-2	361.22730		Formaldehyde;50-00-0
6.402	1	VV	4.17561	1.87813e-2	156.84659		Acetaldehyde;75-07-0

Totals : 518.07389

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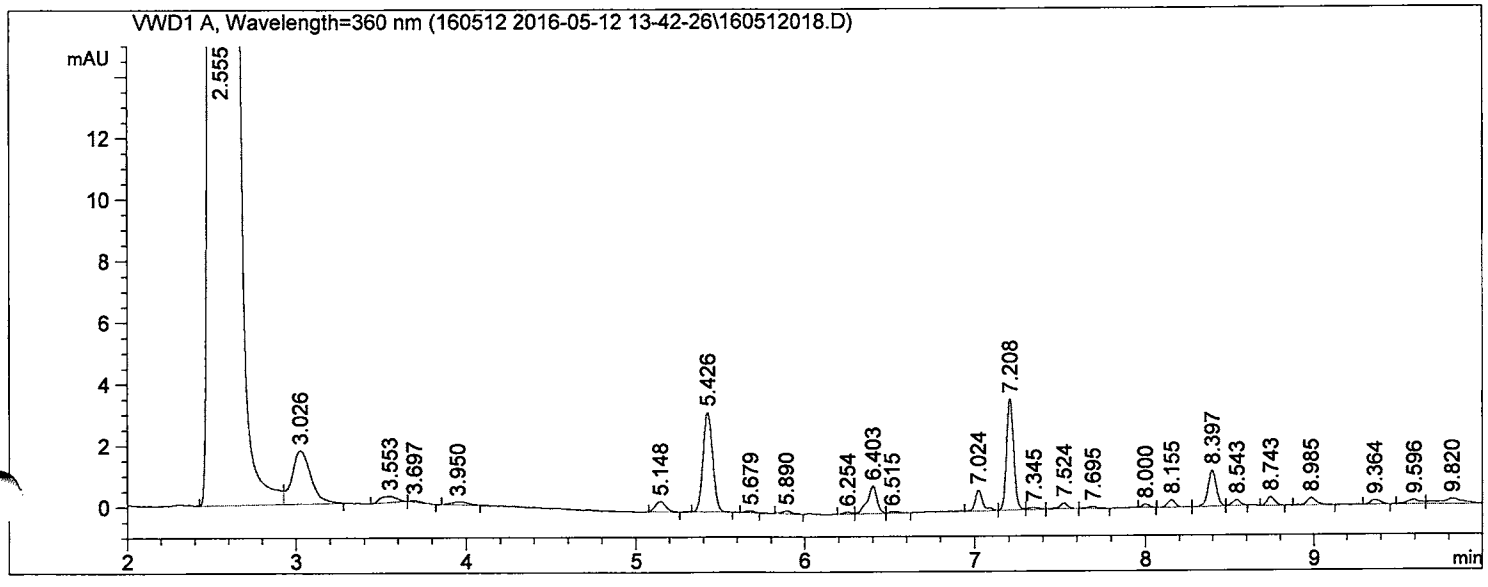
*** End of Report ***

Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512018.D
Sample Name: 061-033-44

==========

Acq. Operator : SYSTEM Seq. Line : 15
Acq. Instrument : Agilent 1260 Location : Vial 15
Injection Date : 5/12/2016 6:26:33 PM Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-44; F11-34; Collected 5/3/2016; 19310; 47.75L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.426	1	BB	12.83507	1.41609e-2	363.51148		Formaldehyde;50-00-0
6.403	1	VV	3.56216	1.87813e-2	133.80401		Acetaldehyde;75-07-0

Totals : 497.31550

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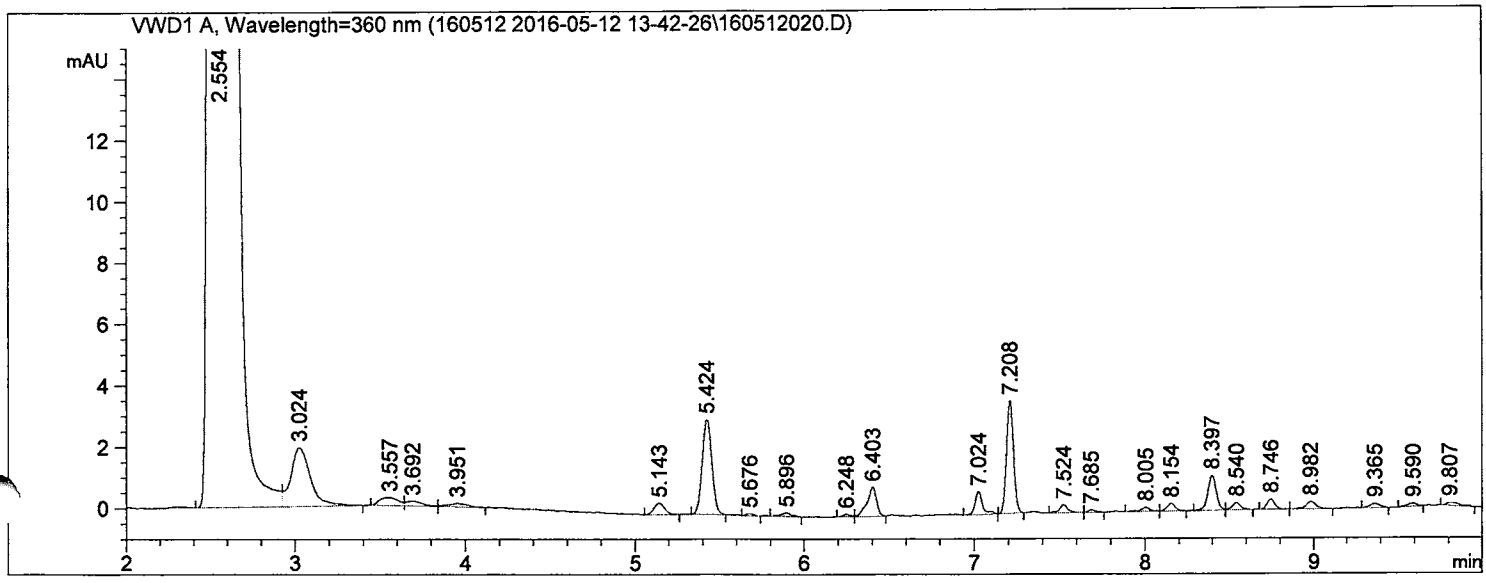
*** End of Report ***

Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512020.D
Sample Name: 061-033-45

Acq. Operator	: SYSTEM	Seq. Line :	17
Acq. Instrument	: Agilent 1260	Location :	Vial 16
Injection Date	: 5/12/2016 6:59:54 PM	Inj :	1
		Inj Volume :	2.000 µl

Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316T0050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-45; F11-35; Collected 5/3/2016; 19415; 48.89L



External Standard Report

Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.424	1	BB	12.15661	1.41609e-2	344.29642		Formaldehyde;50-00-0
6.403	1	VV	3.68022	1.87813e-2	138.23843		Acetaldehyde;75-07-0

Totals : 482.53485

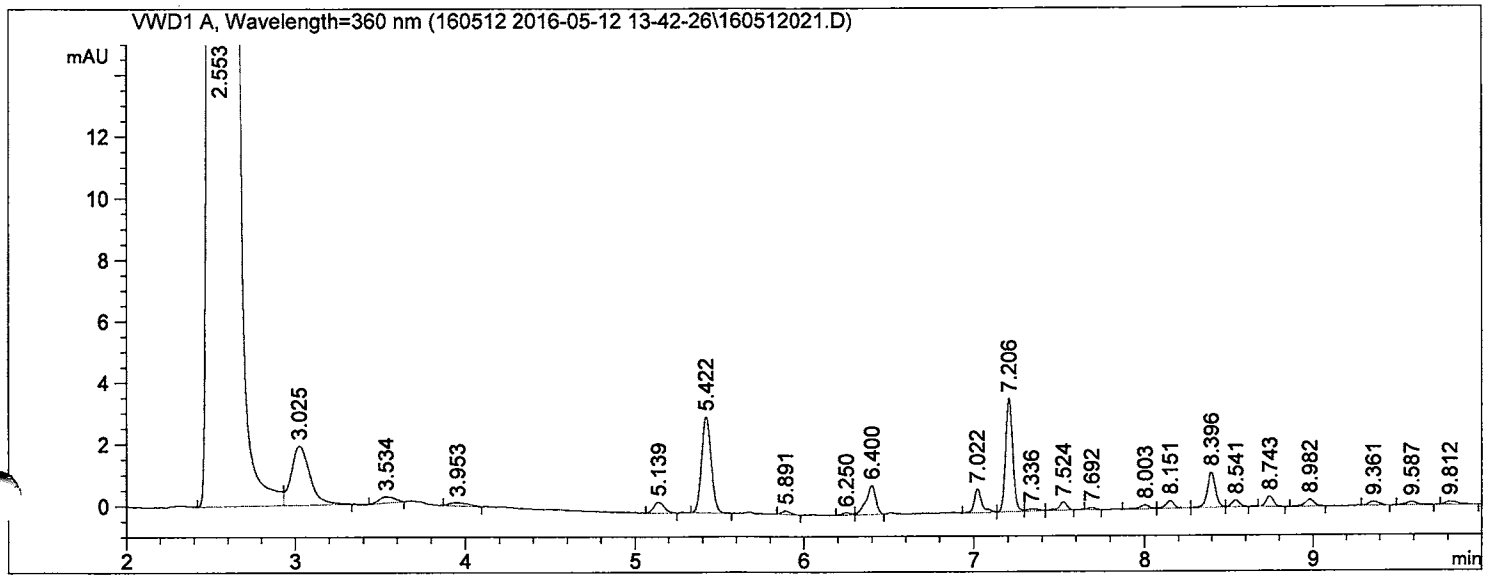
*** End of Report ***

Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512021.D
Sample Name: 061-033-45

==========

Acq. Operator : SYSTEM Seq. Line : 17
Acq. Instrument : Agilent 1260 Location : Vial 16
Injection Date : 5/12/2016 7:16:35 PM Inj : 2
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-45; F11-35; Collected 5/3/2016; 19415; 48.89L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.422	1	BB	12.30016	1.41609e-2	348.36206		Formaldehyde;50-00-0
6.400	1	VB	3.73496	1.87813e-2	140.29468		Acetaldehyde;75-07-0

Totals : 488.65674

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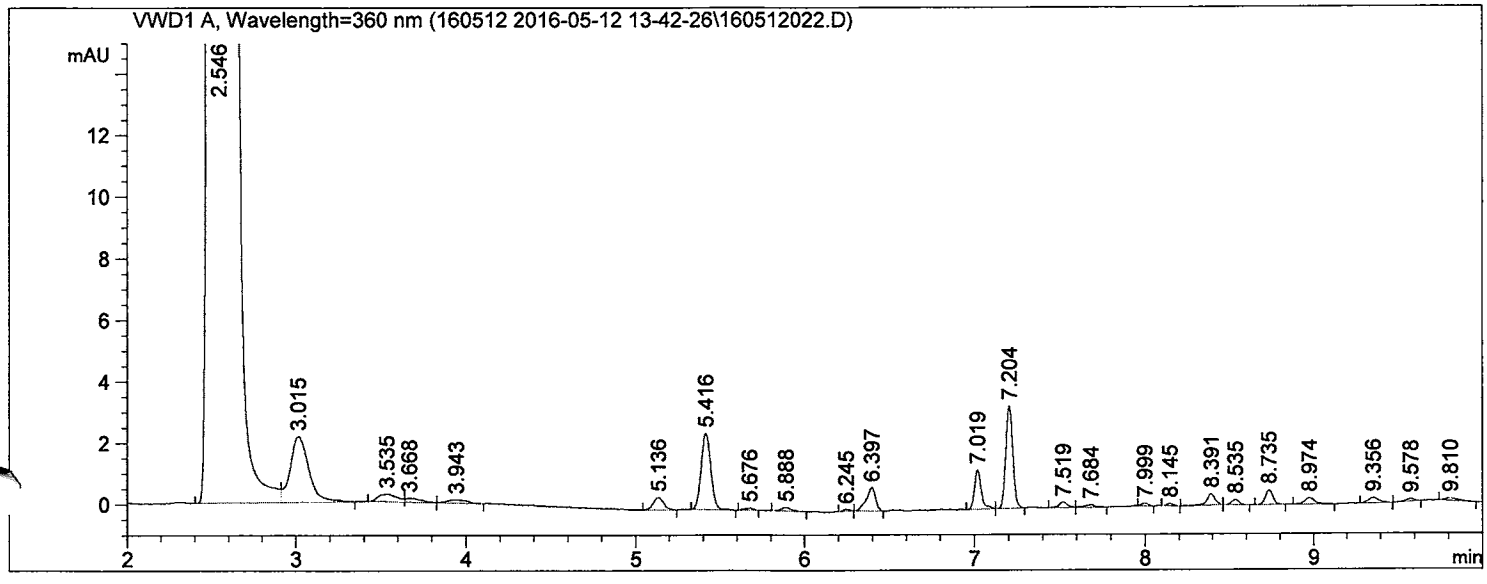
*** End of Report ***

Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512022.D
Sample Name: 061-033-46

==========

Acq. Operator : SYSTEM Seq. Line : 18
Acq. Instrument : Agilent 1260 Location : Vial 17
Injection Date : 5/12/2016 7:33:15 PM Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-46; F11-36; Collected 5/3/2016; 19331; 54.62L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.416	1	BB	9.92583	1.41609e-2	281.11683		Formaldehyde;50-00-0
6.397	1	BB	2.93944	1.87813e-2	110.41310		Acetaldehyde;75-07-0

Totals : 391.52992

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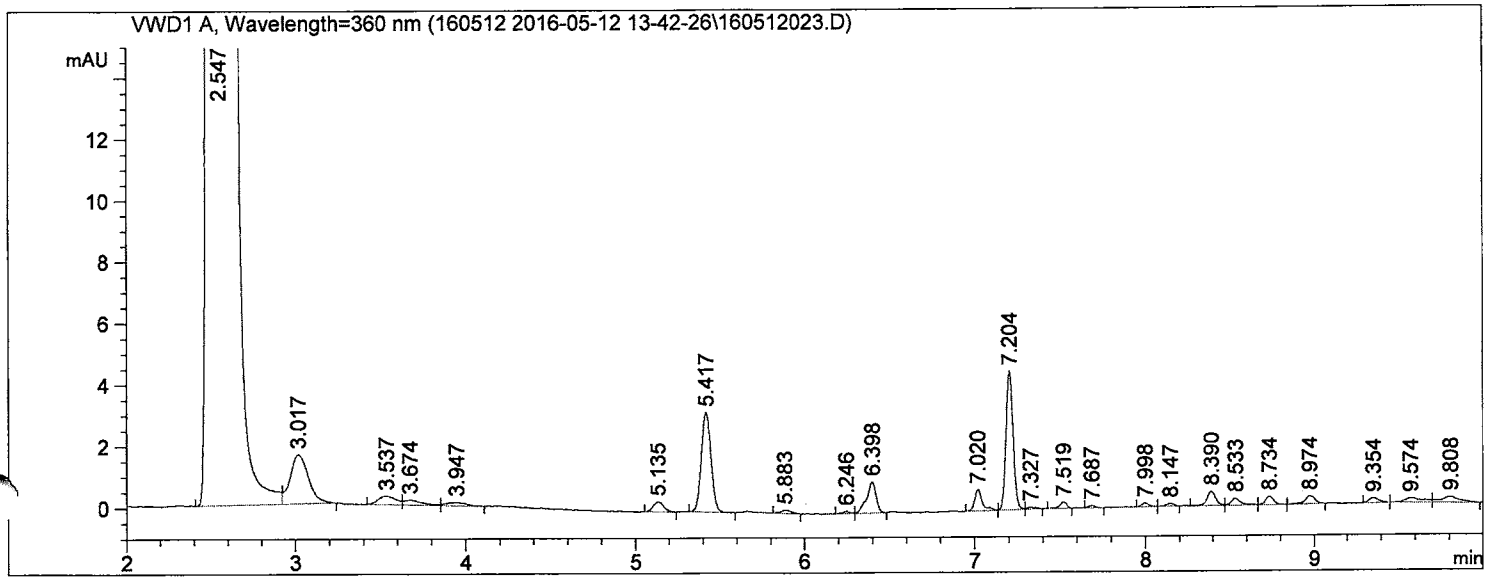
*** End of Report ***

Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512023.D
Sample Name: 061-033-47

==========

Acq. Operator : SYSTEM
Seq. Line : 19
Acq. Instrument : Agilent 1260
Location : Vial 18
Injection Date : 5/12/2016 7:49:55 PM
Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-47; F11-37; Collected 5/3/2016; 19213; 54.18L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.417	1	BB	12.86284	1.41609e-2	364.29795		Formaldehyde;50-00-0
6.398	1	VV	3.91290	1.87813e-2	146.97864		Acetaldehyde;75-07-0

Totals : 511.27659

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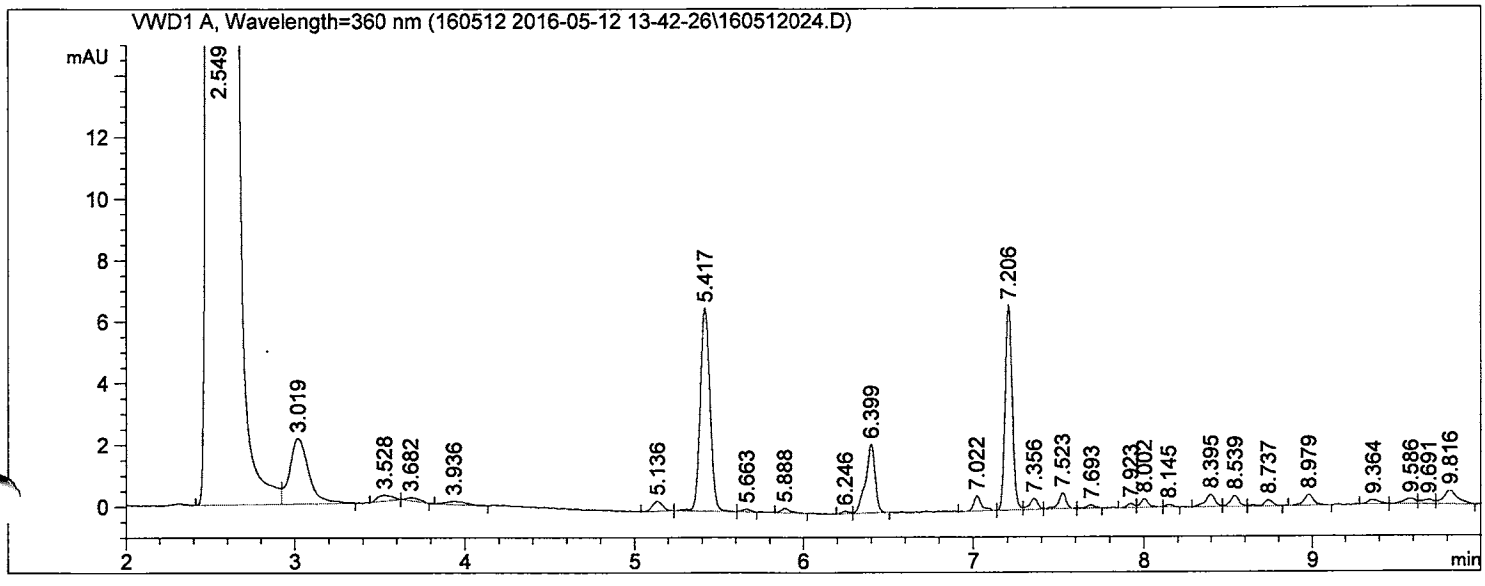
*** End of Report ***

Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512024.D
Sample Name: 061-033-48

==========

Acq. Operator : SYSTEM Seq. Line : 20
Acq. Instrument : Agilent 1260 Location : Vial 19
Injection Date : 5/12/2016 8:06:35 PM Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-48; F11-38; Collected 5/3/2016; 8338; 55.63L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.417	1	BV	26.35053	1.41609e-2	746.29305		Formaldehyde;50-00-0
6.399	1	VB	8.61098	1.87813e-2	323.45042		Acetaldehyde;75-07-0

Totals : 1069.74347

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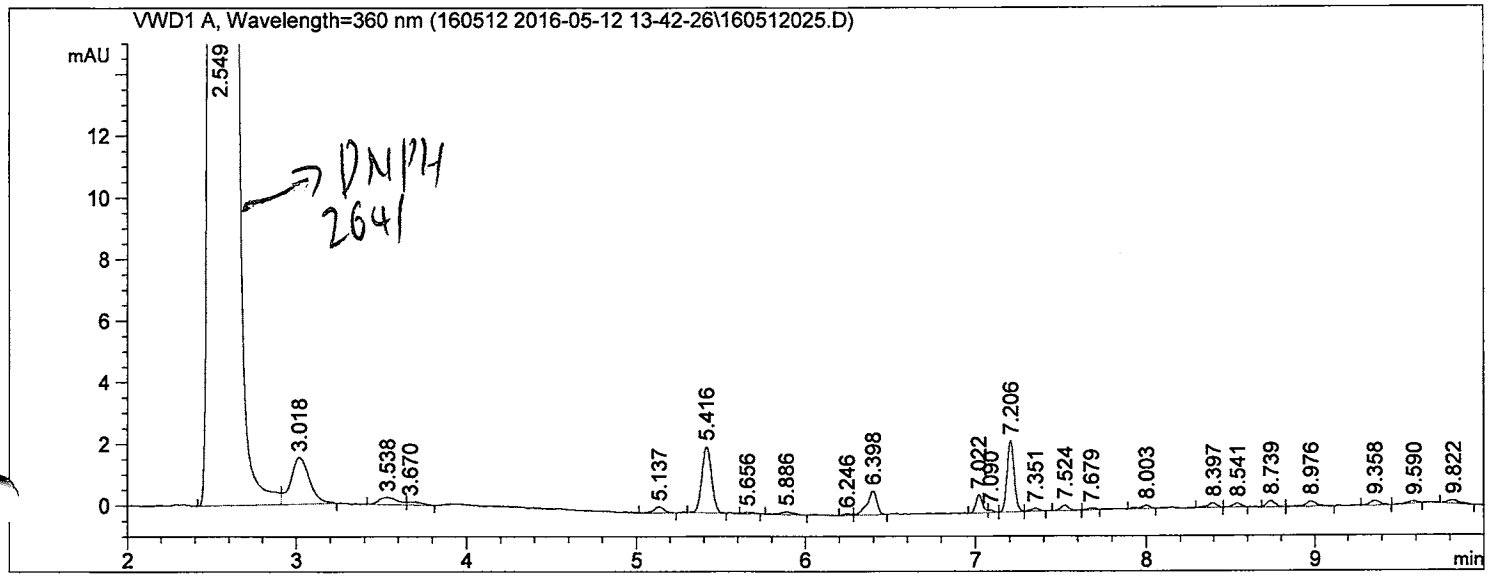
*** End of Report ***

Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512025.D
Sample Name: 061-033-49

==========

Acq. Operator : SYSTEM Seq. Line : 21
Acq. Instrument : Agilent 1260 Location : Vial 20
Injection Date : 5/12/2016 8:23:19 PM Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-49; F11-39; Collected 5/3/2016; 8356; 45.96L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.416	1	BV	8.58030	1.41609e-2	243.00892		Formaldehyde;50-00-0
6.398	1	VB	3.11065	1.87813e-2	116.84416		Acetaldehyde;75-07-0

Totals : 359.85308

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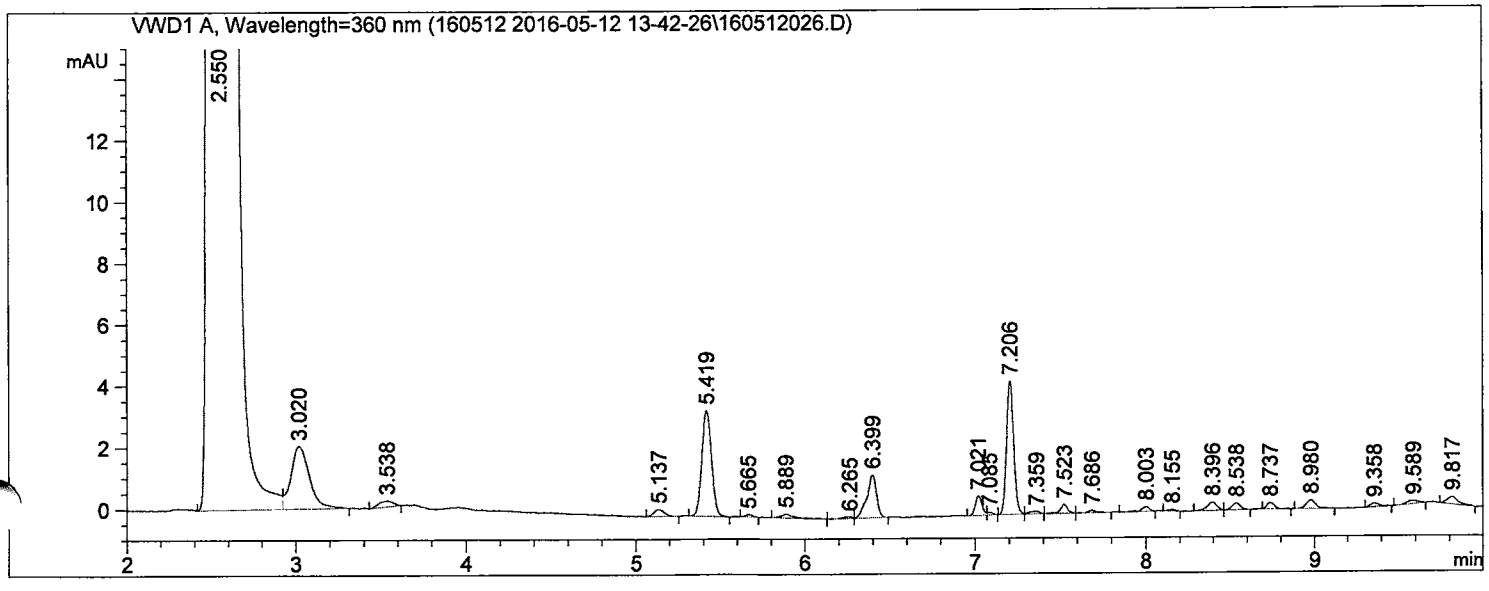
*** End of Report ***

Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512026.D
Sample Name: 061-033-50

Acq. Operator	: SYSTEM	Seq. Line :	22
Acq. Instrument	: Agilent 1260	Location :	Vial 21
Injection Date	: 5/12/2016 8:40:01 PM	Inj :	1
		Inj Volume :	2.000 µl

Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-50; F11-40; Collected 5/3/2016; 8223; 45.35L



External Standard Report

Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.419	1	BB	13.63564	1.41609e-2	386.18520		Formaldehyde;50-00-0
6.399	1	VB	5.43778	1.87813e-2	204.25691		Acetaldehyde;75-07-0

Totals : 590.44211

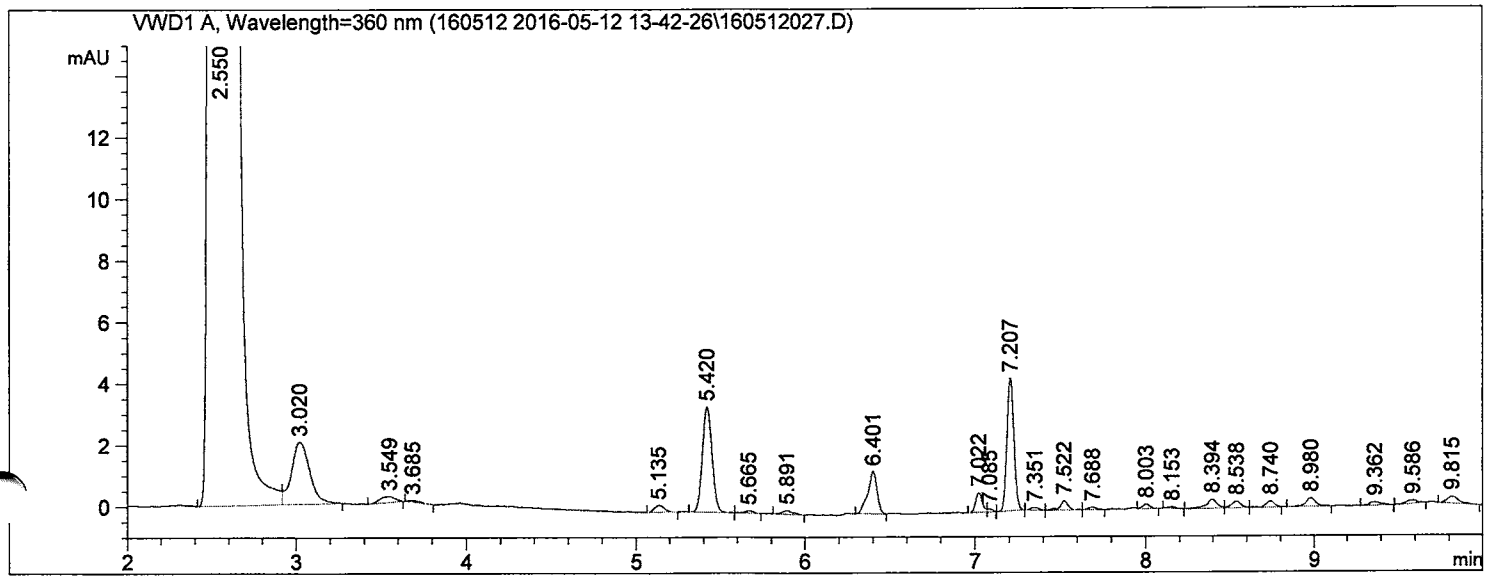
*** End of Report ***

Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512027.D
Sample Name: 061-033-50

==========

Acq. Operator : SYSTEM Seq. Line : 22
Acq. Instrument : Agilent 1260 Location : Vial 21
Injection Date : 5/12/2016 8:56:40 PM Inj : 2
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-50; F11-40; Collected 5/3/2016; 8223; 45.35L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.420	1	BB	13.50499	1.41609e-2	382.48497		Formaldehyde;50-00-0
6.401	1	BB	5.22043	1.87813e-2	196.09263		Acetaldehyde;75-07-0

Totals : 578.57760

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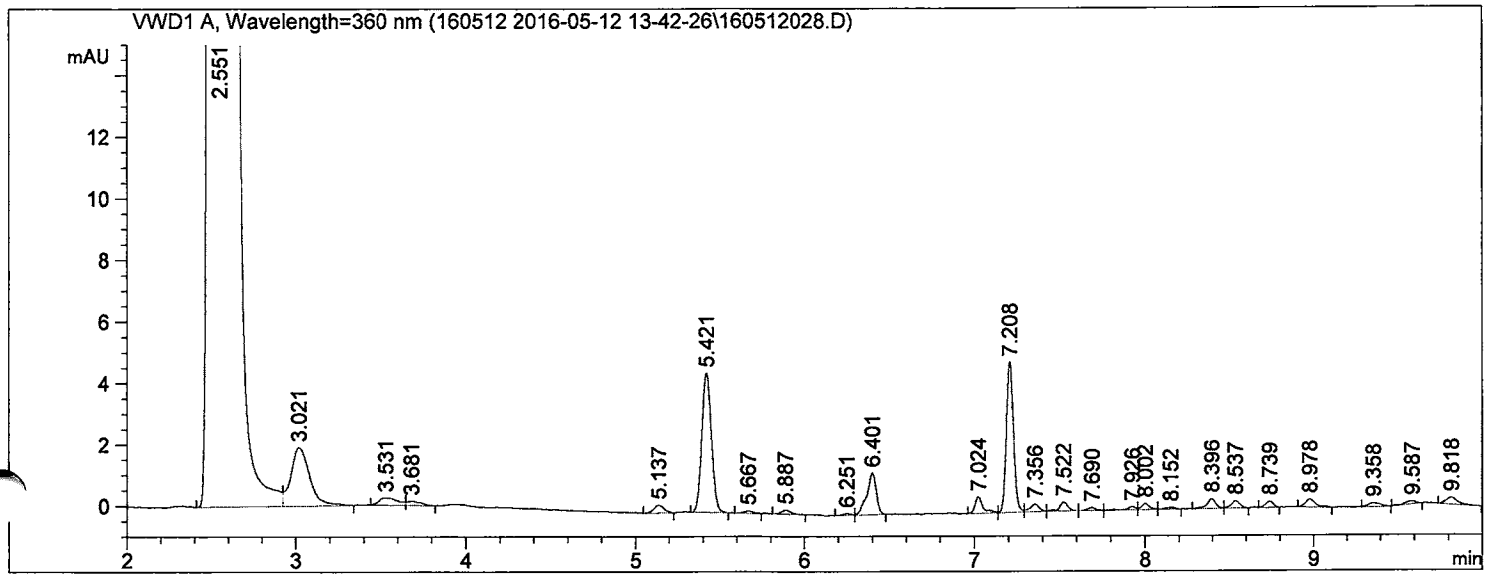
*** End of Report ***

Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512028.D
Sample Name: 061-033-51

==========

Acq. Operator : SYSTEM Seq. Line : 23
Acq. Instrument : Agilent 1260 Location : Vial 22
Injection Date : 5/12/2016 9:13:18 PM Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-51; F11-41; Collected 5/3/2016; 8146; 48.78L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.421	1	BB	17.90116	1.41609e-2	506.99208		Formaldehyde;50-00-0
6.401	1	VB	5.27495	1.87813e-2	198.14085		Acetaldehyde;75-07-0

Totals : 705.13293

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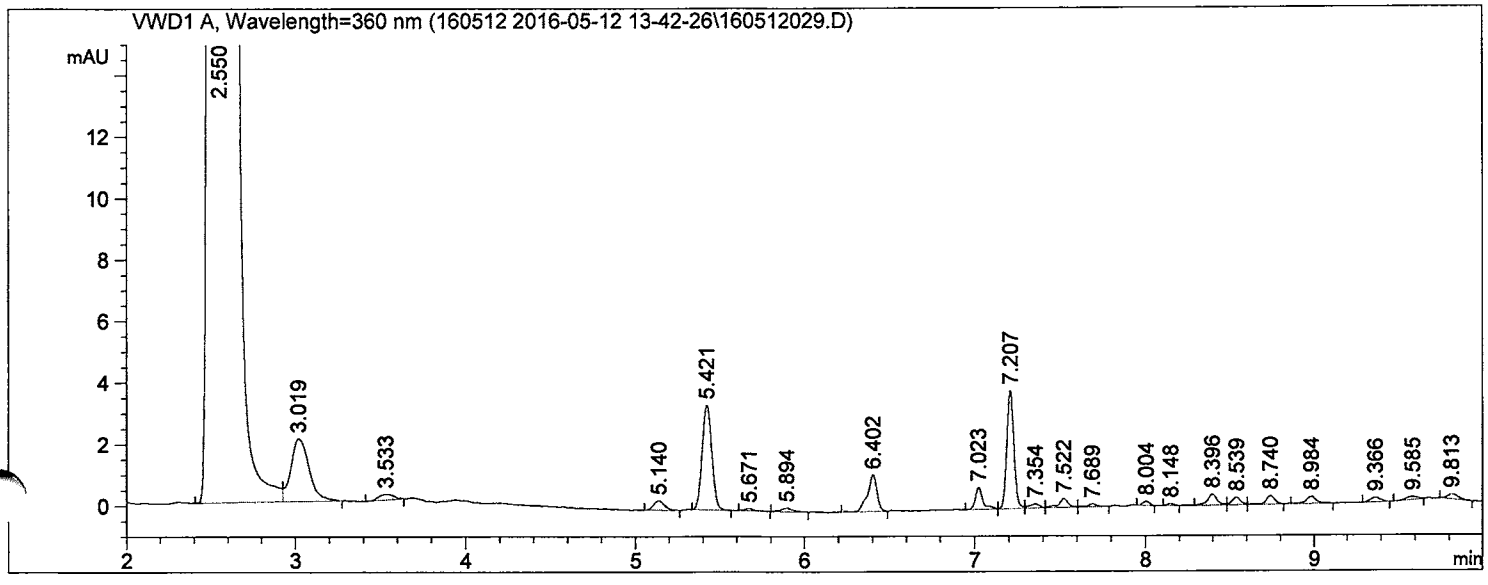
*** End of Report ***

Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512029.D
Sample Name: 061-033-52

==========

Acq. Operator : SYSTEM Seq. Line : 24
Acq. Instrument : Agilent 1260 Location : Vial 23
Injection Date : 5/12/2016 9:29:57 PM Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-52; F11-42; Collected 5/3/2016; 9365; 55.55L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.421	1	BB	13.44090	1.41609e-2	380.66973		Formaldehyde;50-00-0
6.402	1	BV	4.75224	1.87813e-2	178.50644		Acetaldehyde;75-07-0

Totals : 559.17617

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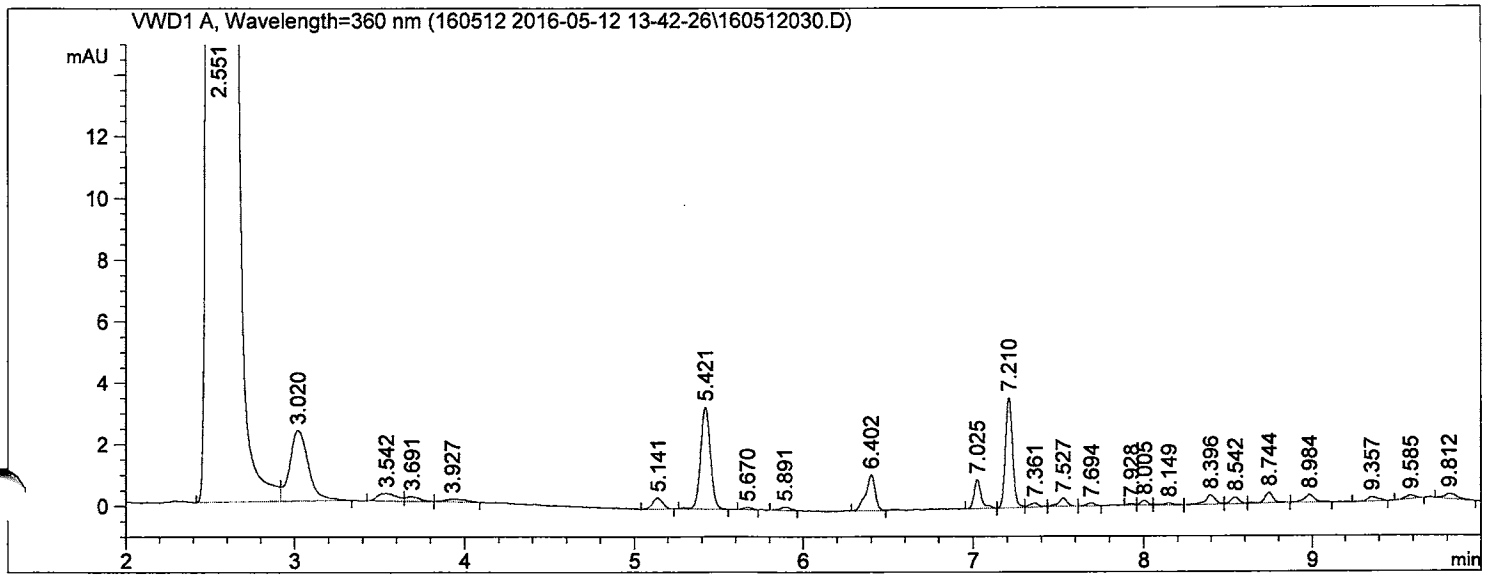
*** End of Report ***

Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512030.D
Sample Name: 061-033-53

==========

Acq. Operator : SYSTEM Seq. Line : 25
Acq. Instrument : Agilent 1260 Location : Vial 24
Injection Date : 5/12/2016 9:46:37 PM Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-53; F11-43; Collected 5/3/2016; 9246; 54.74L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.421	1	BB	13.28763	1.41609e-2	376.32878		Formaldehyde;50-00-0
6.402	1	BV	4.51520	1.87813e-2	169.60237		Acetaldehyde;75-07-0

Totals : 545.93116

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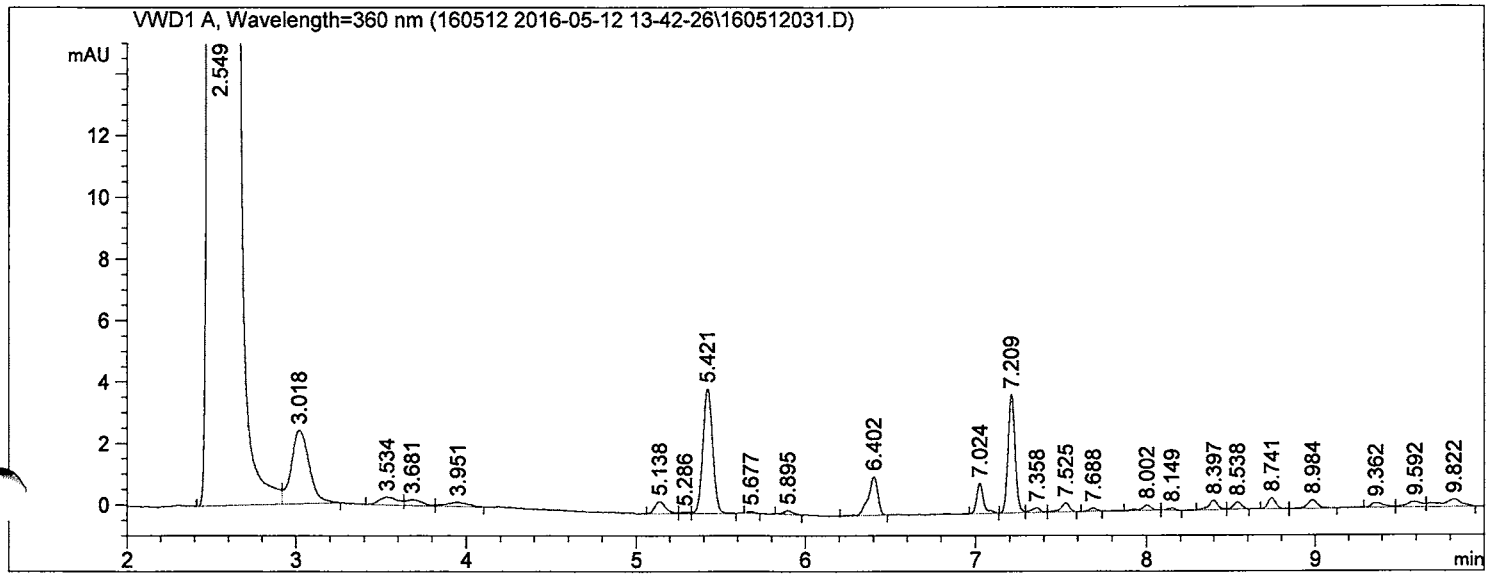
*** End of Report ***

Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512031.D
Sample Name: 061-033-54

==========

Acq. Operator : SYSTEM Seq. Line : 26
Acq. Instrument : Agilent 1260 Location : Vial 25
Injection Date : 5/12/2016 10:03:19 PM Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-54; F11-44; Collected 5/3/2016; 9163; 54.22L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.421	1	VB	16.24829	1.41609e-2	460.17997		Formaldehyde;50-00-0
6.402	1	BB	4.99960	1.87813e-2	187.79771		Acetaldehyde;75-07-0

Totals : 647.97768

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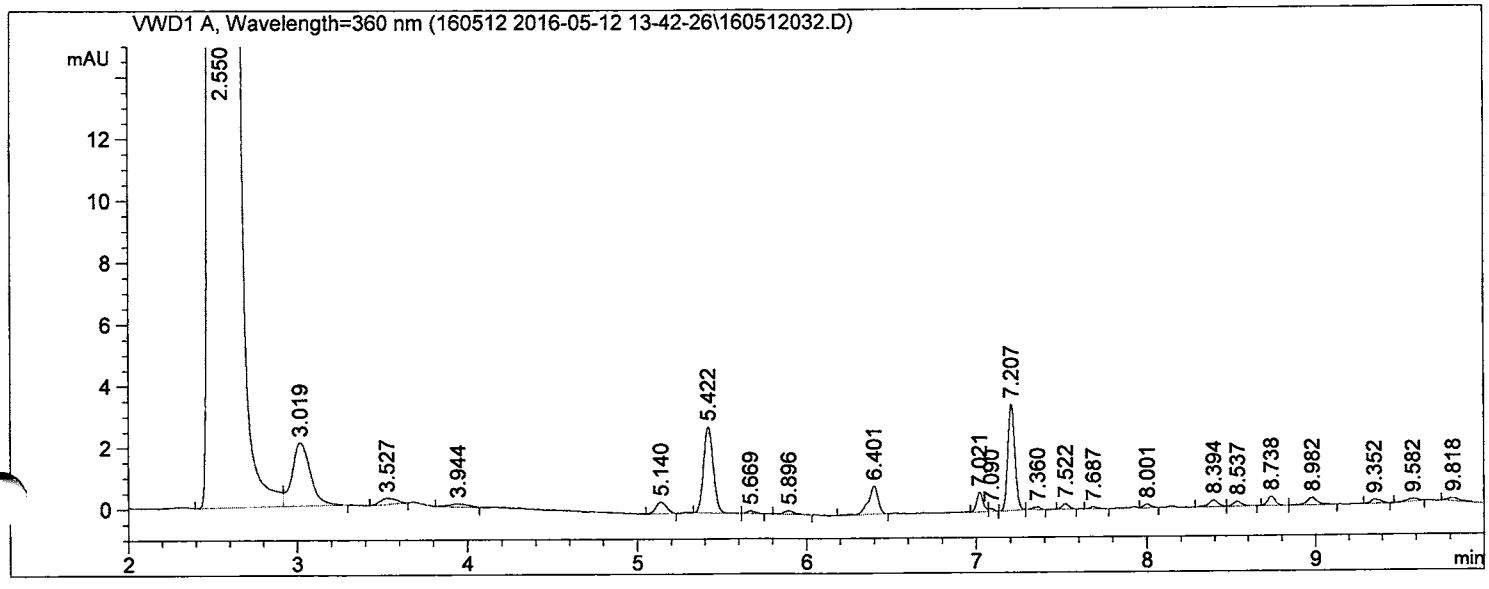
*** End of Report ***

Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512032.D
Sample Name: 061-033-55

Acq. Operator	: SYSTEM	Seq. Line :	27
Acq. Instrument	: Agilent 1260	Location :	Vial 26
Injection Date	: 5/12/2016 10:20:00 PM	Inj :	1
		Inj Volume :	2.000 µl

Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-55; F11-45; Collected 5/3/2016; 9419; 48.35L



External Standard Report

Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.422	1	BB	11.11317	1.41609e-2	314.74441		Formaldehyde;50-00-0
6.401	1	BB	3.72486	1.87813e-2	139.91522		Acetaldehyde;75-07-0

Totals : 454.65963

*** End of Report ***

Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512033.D
Sample Name: 061-033-55

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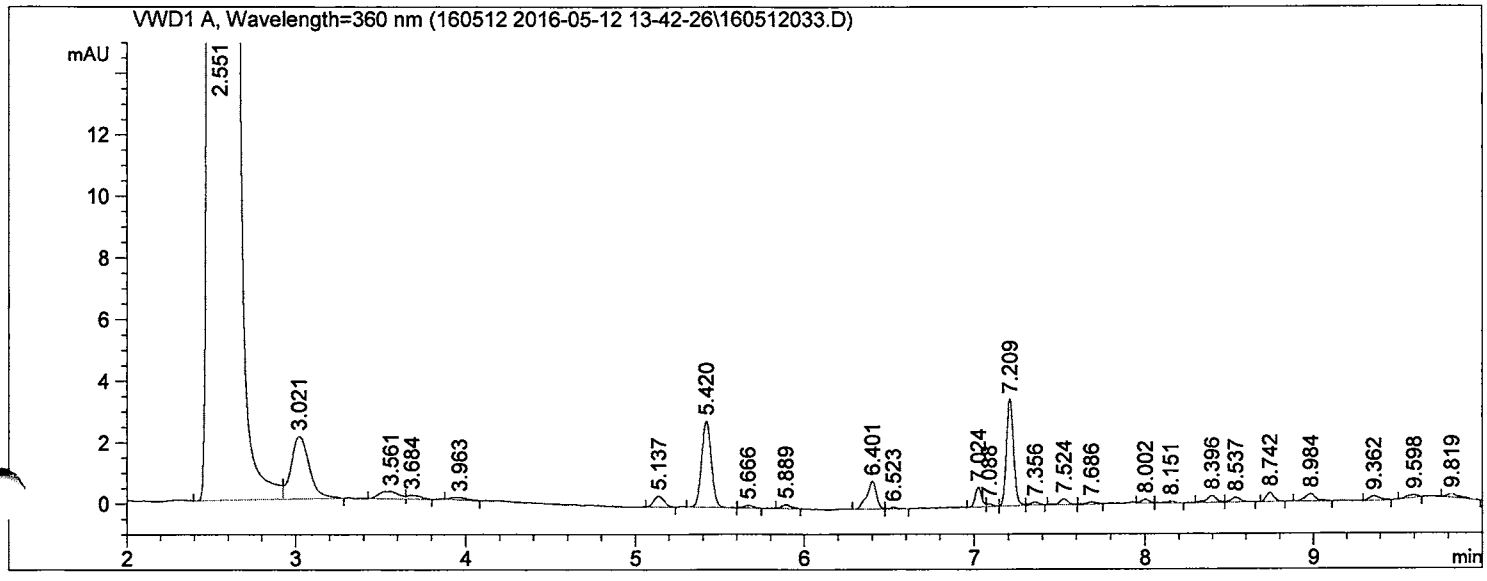
Acq. Operator : SYSTEM Seq. Line : 27
Acq. Instrument : Agilent 1260 Location : Vial 26
Injection Date : 5/12/2016 10:36:39 PM Inj : 2
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-55; F11-45; Collected 5/3/2016; 9419; 48.35L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.420	1	BB	11.18858	1.41609e-2	316.88004		Formaldehyde;50-00-0
6.401	1	BB	3.50901	1.87813e-2	131.80732		Acetaldehyde;75-07-0

Totals : 448.68737

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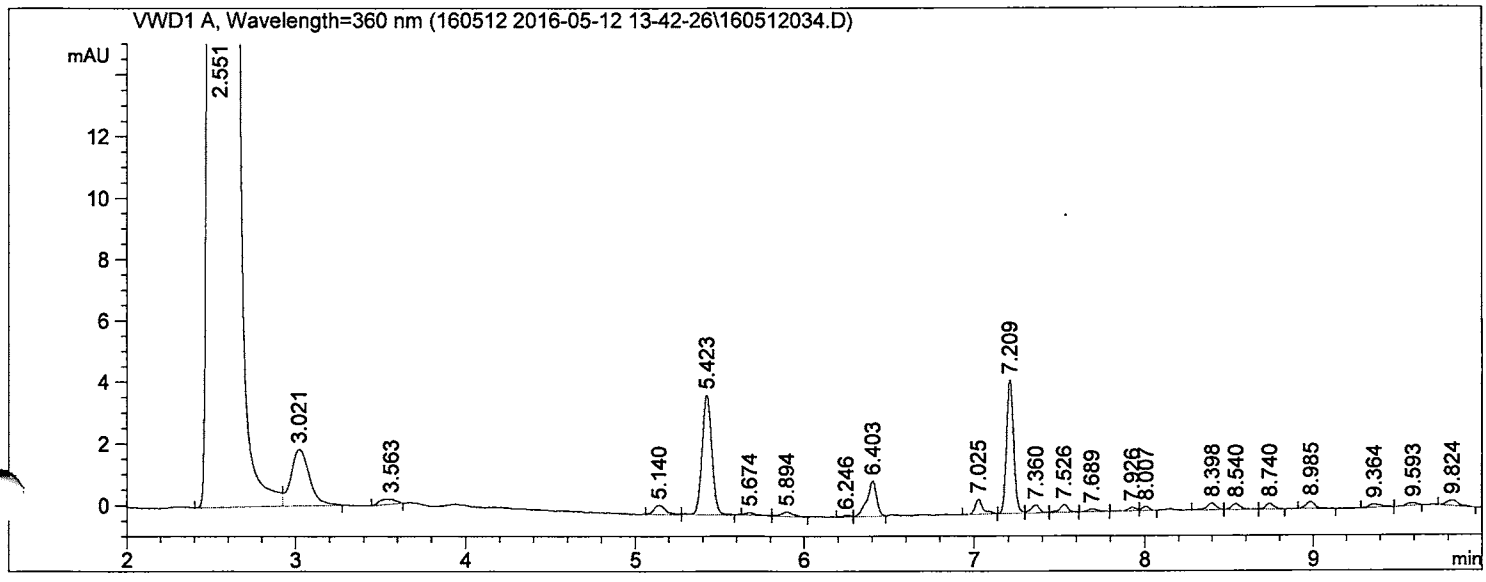
*** End of Report ***

Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512034.D
Sample Name: 061-033-56

==========

Acq. Operator : SYSTEM Seq. Line : 28
Acq. Instrument : Agilent 1260 Location : Vial 27
Injection Date : 5/12/2016 10:53:19 PM Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-56; F11-46; Collected 5/3/2016; 13138; 47.53L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.423	1	VB	15.55679	1.41609e-2	440.59538		Formaldehyde;50-00-0
6.403	1	VV	4.52671	1.87813e-2	170.03482		Acetaldehyde;75-07-0

Totals : 610.63020

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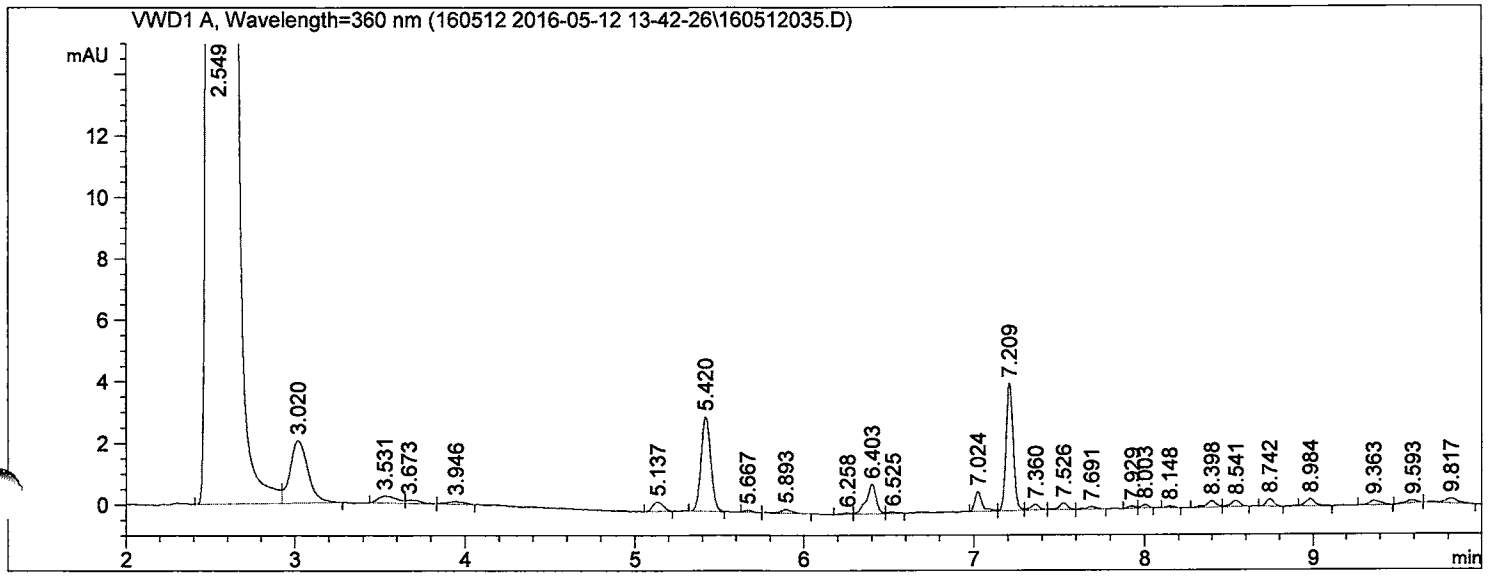
*** End of Report ***

Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512035.D
Sample Name: 061-033-57

==========

Acq. Operator : SYSTEM Seq. Line : 29
Acq. Instrument : Agilent 1260 Location : Vial 28
Injection Date : 5/12/2016 11:10:00 PM Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-57; F11-47; Collected 5/3/2016; 13243; 49.62L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.420	1	BV	12.18939	1.41609e-2	345.22482		Formaldehyde;50-00-0
6.403	1	VV	3.91692	1.87813e-2	147.12955		Acetaldehyde;75-07-0

Totals : 492.35437

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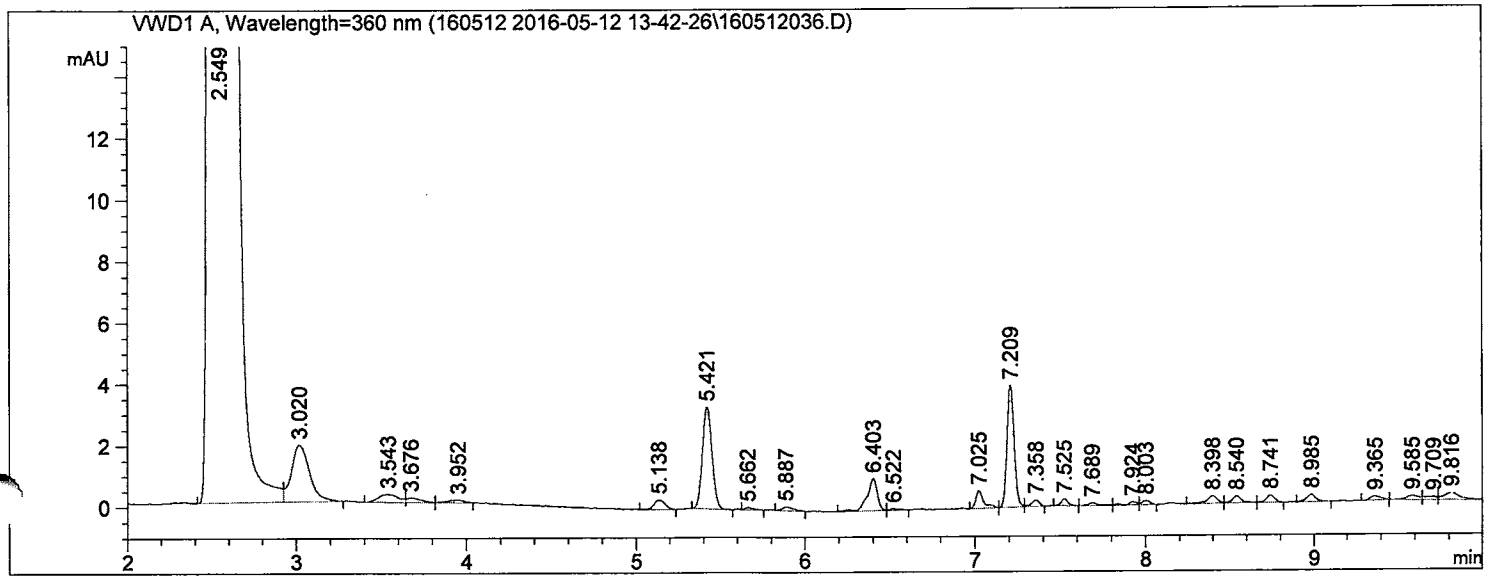
*** End of Report ***

Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512036.D
Sample Name: 061-033-58

==========

Acq. Operator : SYSTEM
Seq. Line : 30
Acq. Instrument : Agilent 1260
Location : Vial 29
Injection Date : 5/12/2016 11:26:40 PM
Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-58; F11-48; Collected 5/3/2016; 13336; 42.62L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.421	1	BB	12.97146	1.41609e-2	367.37428		Formaldehyde;50-00-0
6.403	1	BV	4.35709	1.87813e-2	163.66340		Acetaldehyde;75-07-0

Totals : 531.03768

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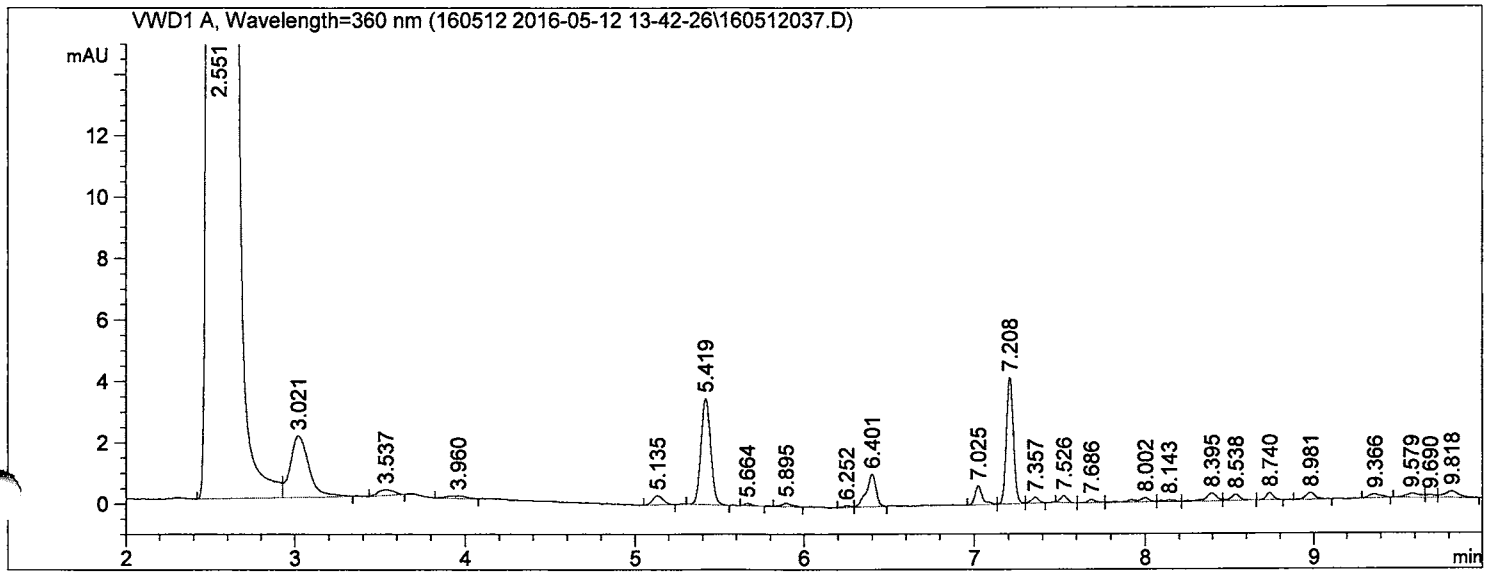
*** End of Report ***

Data File C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\160512037.D
Sample Name: 061-033-59

==========

Acq. Operator : SYSTEM Seq. Line : 31
Acq. Instrument : Agilent 1260 Location : Vial 30
Injection Date : 5/12/2016 11:43:21 PM Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160512 2016-05-12 13-42-26\FORMALDEHYDE.M
Last changed : 5/12/2016 1:42:26 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE030316TO050416.M
Last changed : 5/11/2016 1:35:12 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-033-59; F11-49; Collected 5/3/2016; 13344; 52.89L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 5/11/2016 1:35:12 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
5.419	1	BB	13.78434	1.41609e-2	390.39653		Formaldehyde;50-00-0
6.401	1	VV	4.34171	1.87813e-2	163.08596		Acetaldehyde;75-07-0

Totals : 553.48249

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*** End of Report ***

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\May\
Data File : T160510_03.D
Acq On : 10 May 2016 3:28 pm
Operator : rgill
Sample : 061-033-01_US EPA; Mi193227; 5.507L
Misc : C11-21; 15156; 107ngBFB;10:1 split
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 12 14:43:00 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016.M
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.929	95	889823	107.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	13.929	95	889823	107.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	13.929	95	889823	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.929	95	889823	107.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	13.929	95	889823	107.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	13.929	95	889823	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) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
12) Octanal; 124-13-0	0.000		0	N.D. d	
13) Phenol; 108-95-2	0.000		0	N.D. d	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D.	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D. d	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D.	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.705	113	101749	48.89 ng	98
22) 1-Methoxy-2-propanol; ...	0.000		0	N.D. d	
23) Ethylene glycol; 107-21-1	0.000		0	N.D.	
24) Butyl acetate; 123-86-4	0.000		0	N.D. d	
25) Propylene glycol; 57-55-6	0.000		0	N.D. d	
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
27) Hexanoic acid; 142-62-1	0.000		0	N.D. d	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
30) Dodecanol; 112-53-8	0.000		0	N.D.	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D. d	
34) Ethanol; 64-17-5	0.000		0	N.D. d	
35) 2-Propanone(acetone); ...	0.000		0	N.D. d	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D.	
40) n-Hexane; 110-54-3	0.000		0	N.D.	
41) Vinyl acetate; 108-05-4	0.000		0	N.D.	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Chloroform;67-66-3	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\May\
Data File : T160510_04.D
Acq On : 10 May 2016 4:16 pm
Operator : rgill
Sample : 061-033-02_US EPA; Mi59930; 5.48L
Misc : C11-22; 15162; 107ngBFB;10:1 split
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 12 14:56:25 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016.M
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.929	95	903047	107.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	13.929	95	903047	107.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	13.929	95	903047	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.929	95	903047	107.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	13.929	95	903047	107.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	13.929	95	903047	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) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
12) Octanal; 124-13-0	0.000		0	N.D. d	
13) Phenol; 108-95-2	0.000		0	N.D. d	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D. d	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D. d	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D.	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.695	113	107800	51.04 ng	99
22) 1-Methoxy-2-propanol; ...	0.000		0	N.D. d	
23) Ethylene glycol; 107-21-1	0.000		0	N.D.	
24) Butyl acetate; 123-86-4	0.000		0	N.D. d	
25) Propylene glycol; 57-55-6	0.000		0	N.D. d	
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
27) Hexanoic acid; 142-62-1	0.000		0	N.D. d	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
30) Dodecanol; 112-53-8	0.000		0	N.D.	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D. d	
34) Ethanol; 64-17-5	0.000		0	N.D. d	
35) 2-Propanone(acetone); ...	0.000		0	N.D. d	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D. d	
40) n-Hexane; 110-54-3	0.000		0	N.D.	
41) Vinyl acetate; 108-05-4	0.000		0	N.D.	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Chloroform;67-66-3	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\May\
Data File : T160510_05.D
Acq On : 10 May 2016 5:03 pm
Operator : rgill
Sample : 061-033-03_US EPA; Mi59928; 5.704L
Misc : C11-23; 16361; 107ngBFB;10:1 split
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 12 15:05:03 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016.M
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.929	95	955750	107.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	13.929	95	955750	107.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	13.929	95	955750	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.929	95	955750	107.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	13.929	95	955750	107.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	13.929	95	955750	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) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
12) Octanal; 124-13-0	0.000		0	N.D. d	
13) Phenol; 108-95-2	0.000		0	N.D. d	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D.	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D. d	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D. d	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.700	113	106272	47.55 ng	98
22) 1-Methoxy-2-propanol; ...	0.000		0	N.D.	
23) Ethylene glycol; 107-21-1	0.000		0	N.D.	
24) Butyl acetate; 123-86-4	0.000		0	N.D. d	
25) Propylene glycol; 57-55-6	0.000		0	N.D. d	
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
27) Hexanoic acid; 142-62-1	0.000		0	N.D. d	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
30) Dodecanol; 112-53-8	0.000		0	N.D.	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D. d	
34) Ethanol; 64-17-5	0.000		0	N.D. d	
35) 2-Propanone(acetone); ...	0.000		0	N.D. d	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D. d	
40) n-Hexane; 110-54-3	0.000		0	N.D.	
41) Vinyl acetate; 108-05-4	0.000		0	N.D. d	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Chloroform;67-66-3	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\May\
Data File : T160510_06.D
Acq On : 10 May 2016 5:50 pm
Operator : rgill
Sample : 061-033-04_US EPA; 242492; 5.887L
Misc : C11-24; 242492; 107ngBFB;10:1 split
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 15:08:29 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016.M
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.928	95	927722	107.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	13.928	95	927722	107.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	13.928	95	927722	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.928	95	927722	107.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	13.928	95	927722	107.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	13.928	95	927722	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) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
12) Octanal; 124-13-0	0.000		0	N.D. d	
13) Phenol; 108-95-2	0.000		0	N.D. d	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D. d	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D. d	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D. d	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.705	113	74865	34.51 ng	96
22) 1-Methoxy-2-propanol; ...	0.000		0	N.D.	
23) Ethylene glycol; 107-21-1	0.000		0	N.D.	
24) Butyl acetate; 123-86-4	0.000		0	N.D. d	
25) Propylene glycol; 57-55-6	0.000		0	N.D. d	
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
27) Hexanoic acid; 142-62-1	0.000		0	N.D. d	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
30) Dodecanol; 112-53-8	0.000		0	N.D.	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D. d	
34) Ethanol; 64-17-5	0.000		0	N.D. d	
35) 2-Propanone(acetone); ...	0.000		0	N.D. d	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D. d	
40) n-Hexane; 110-54-3	0.000		0	N.D.	
41) Vinyl acetate; 108-05-4	0.000		0	N.D. d	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Chloroform;67-66-3	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\May\
Data File : T160511_04.D
Acq On : 11 May 2016 2:41 pm
Operator : rgill
Sample : 061-033-05_US EPA; Mi51172; 5.791L
Misc : 107ngBFB;10:1 split
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 12 15:16:03 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016.M
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.928	95	920159	107.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	13.928	95	920159	107.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	13.928	95	920159	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.928	95	920159	107.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	13.928	95	920159	107.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	13.928	95	920159	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) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
12) Octanal; 124-13-0	0.000		0	N.D. d	
13) Phenol; 108-95-2	0.000		0	N.D. d	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D. d	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D. d	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D. d	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.700	113	111490	51.81 ng	97
22) 1-Methoxy-2-propanol; ...	0.000		0	N.D.	
23) Ethylene glycol; 107-21-1	0.000		0	N.D.	
24) Butyl acetate; 123-86-4	0.000		0	N.D. d	
25) Propylene glycol; 57-55-6	0.000		0	N.D. d	
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
27) Hexanoic acid; 142-62-1	0.000		0	N.D. d	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
30) Dodecanol; 112-53-8	0.000		0	N.D.	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D. d	
34) Ethanol; 64-17-5	0.000		0	N.D. d	
35) 2-Propanone(acetone); ...	0.000		0	N.D. d	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D. d	
40) n-Hexane; 110-54-3	0.000		0	N.D.	
41) Vinyl acetate; 108-05-4	0.000		0	N.D. d	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Chloroform;67-66-3	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\May\
Data File : T160510_08.D
Acq On : 10 May 2016 7:10 pm
Operator : rgill
Sample : 061-033-06_US EPA; Mi193211; 6.111L
Misc : C11-26; 16133; 107ngBFB;10:1 split
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 12 15:09:28 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016.M
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.929	95	852134	107.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	13.929	95	852134	107.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	13.929	95	852134	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.929	95	852134	107.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	13.929	95	852134	107.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	13.929	95	852134	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. 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) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
12) Octanal; 124-13-0	0.000		0	N.D. d	
13) Phenol; 108-95-2	0.000		0	N.D. d	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D.	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D. d	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D. d	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.705	113	108739	54.56 ng	98
22) 1-Methoxy-2-propanol; ...	0.000		0	N.D. d	
23) Ethylene glycol; 107-21-1	0.000		0	N.D.	
24) Butyl acetate; 123-86-4	0.000		0	N.D. d	
25) Propylene glycol; 57-55-6	0.000		0	N.D. d	
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
27) Hexanoic acid; 142-62-1	0.000		0	N.D. d	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
30) Dodecanol; 112-53-8	0.000		0	N.D.	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D. d	
34) Ethanol; 64-17-5	0.000		0	N.D. d	
35) 2-Propanone(acetone); ...	0.000		0	N.D. d	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D. d	
40) n-Hexane; 110-54-3	0.000		0	N.D.	
41) Vinyl acetate; 108-05-4	0.000		0	N.D.	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Chloroform;67-66-3	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\May\
Data File : T160510_09.D
Acq On : 10 May 2016 7:58 pm
Operator : rgill
Sample : 061-033-07_US EPA; Mi51136; 4.535L
Misc : C11-27; 17355; 107ngBFB;10:1 split
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 12 15:10:23 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016.M
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.928	95	902333	107.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	13.928	95	902333	107.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	13.928	95	902333	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.928	95	902333	107.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	13.928	95	902333	107.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	13.928	95	902333	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) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
12) Octanal; 124-13-0	0.000		0	N.D. d	
13) Phenol; 108-95-2	0.000		0	N.D. d	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D. d	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D. d	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D. d	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.700	113	85041	40.30 ng	97
22) 1-Methoxy-2-propanol; ...	0.000		0	N.D.	
23) Ethylene glycol; 107-21-1	0.000		0	N.D.	
24) Butyl acetate; 123-86-4	0.000		0	N.D. d	
25) Propylene glycol; 57-55-6	0.000		0	N.D. d	
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
27) Hexanoic acid; 142-62-1	0.000		0	N.D. d	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
30) Dodecanol; 112-53-8	0.000		0	N.D.	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D. d	
34) Ethanol; 64-17-5	0.000		0	N.D. d	
35) 2-Propanone(acetone); ...	0.000		0	N.D. d	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D.	
40) n-Hexane; 110-54-3	0.000		0	N.D.	
41) Vinyl acetate; 108-05-4	0.000		0	N.D.	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Chloroform;67-66-3	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\May\
Data File : T160510_10.D
Acq On : 10 May 2016 8:45 pm
Operator : rgill
Sample : 061-033-08_US EPA; 203137; 4.095L
Misc : C11-28; 17446; 107ngBFB;10:1 split
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 12 15:11:12 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016.M
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.928	95	865620	107.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	13.928	95	865620	107.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	13.928	95	865620	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.928	95	865620	107.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	13.928	95	865620	107.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	13.928	95	865620	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) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
12) Octanal; 124-13-0	0.000		0	N.D. d	
13) Phenol; 108-95-2	0.000		0	N.D.	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D.	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D. d	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D.	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.710	113	48802	24.11 ng	97
22) 1-Methoxy-2-propanol; ...	0.000		0	N.D. d	
23) Ethylene glycol; 107-21-1	0.000		0	N.D.	
24) Butyl acetate; 123-86-4	0.000		0	N.D. d	
25) Propylene glycol; 57-55-6	0.000		0	N.D. d	
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
27) Hexanoic acid; 142-62-1	0.000		0	N.D.	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
30) Dodecanol; 112-53-8	0.000		0	N.D.	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D. d	
34) Ethanol; 64-17-5	0.000		0	N.D. d	
35) 2-Propanone(acetone); ...	0.000		0	N.D. d	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D.	
40) n-Hexane; 110-54-3	0.000		0	N.D.	
41) Vinyl acetate; 108-05-4	0.000		0	N.D.	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Chloroform;67-66-3	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\May\
Data File : T160510_11.D
Acq On : 10 May 2016 9:33 pm
Operator : rgill
Sample : 061-033-09_US EPA; 203112; 4.84L
Misc : C11-29; 203112; 107ngBFB;10:1 split
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 12 15:12:05 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016.M
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.928	95	856756	107.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	13.928	95	856756	107.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	13.928	95	856756	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.928	95	856756	107.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	13.928	95	856756	107.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	13.928	95	856756	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) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
12) Octanal; 124-13-0	0.000		0	N.D. d	
13) Phenol; 108-95-2	0.000		0	N.D. d	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D.	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D. d	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D. d	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.705	113	88076	43.96 ng	98
22) 1-Methoxy-2-propanol; ...	0.000		0	N.D. d	
23) Ethylene glycol; 107-21-1	0.000		0	N.D.	
24) Butyl acetate; 123-86-4	0.000		0	N.D. d	
25) Propylene glycol; 57-55-6	0.000		0	N.D. d	
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
27) Hexanoic acid; 142-62-1	0.000		0	N.D. d	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
30) Dodecanol; 112-53-8	0.000		0	N.D. d	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D. d	
34) Ethanol; 64-17-5	0.000		0	N.D. d	
35) 2-Propanone(acetone); ...	0.000		0	N.D. d	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D.	
40) n-Hexane; 110-54-3	0.000		0	N.D.	
41) Vinyl acetate; 108-05-4	0.000		0	N.D.	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Chloroform;67-66-3	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\May\
Data File : T160510_12.D
Acq On : 10 May 2016 10:21 pm
Operator : rgill
Sample : 061-033-10_US EPA; 242485; 4.825L
Misc : C11-30; 242485; 107ngBFB;10:1 split
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 12 15:13:00 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016.M
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.933	95	867226	107.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	13.933	95	867226	107.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	13.933	95	867226	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.933	95	867226	107.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	13.933	95	867226	107.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	13.933	95	867226	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) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
12) Octanal; 124-13-0	0.000		0	N.D. d	
13) Phenol; 108-95-2	0.000		0	N.D. d	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D. d	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D. d	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D.	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.705	113	59179	29.18 ng	92
22) 1-Methoxy-2-propanol; ...	0.000		0	N.D. d	
23) Ethylene glycol; 107-21-1	0.000		0	N.D.	
24) Butyl acetate; 123-86-4	0.000		0	N.D. d	
25) Propylene glycol; 57-55-6	0.000		0	N.D. d	
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
27) Hexanoic acid; 142-62-1	0.000		0	N.D.	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D.	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
30) Dodecanol; 112-53-8	0.000		0	N.D.	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D. d	
34) Ethanol; 64-17-5	0.000		0	N.D. d	
35) 2-Propanone(acetone); ...	0.000		0	N.D. d	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D.	
40) n-Hexane; 110-54-3	0.000		0	N.D.	
41) Vinyl acetate; 108-05-4	0.000		0	N.D.	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Chloroform;67-66-3	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\May\
Data File : T160510_13.D
Acq On : 10 May 2016 11:08 pm
Operator : rgill
Sample : 061-033-11_US EPA; Mi193289; 4.764L
Misc : C11-31; 18113; 107ngBFB;10:1 split
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 12 15:13:49 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016.M
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.929	95	871007	107.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	13.929	95	871007	107.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	13.929	95	871007	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.929	95	871007	107.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	13.929	95	871007	107.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	13.929	95	871007	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. 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) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
12) Octanal; 124-13-0	0.000		0	N.D. d	
13) Phenol; 108-95-2	0.000		0	N.D. d	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D. d	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D. d	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D. d	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.695	113	101113	49.64 ng	97
22) 1-Methoxy-2-propanol; ...	0.000		0	N.D. d	
23) Ethylene glycol; 107-21-1	0.000		0	N.D.	
24) Butyl acetate; 123-86-4	0.000		0	N.D. d	
25) Propylene glycol; 57-55-6	0.000		0	N.D. d	
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
27) Hexanoic acid; 142-62-1	0.000		0	N.D. d	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
30) Dodecanol; 112-53-8	0.000		0	N.D. d	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D. d	
34) Ethanol; 64-17-5	0.000		0	N.D. d	
35) 2-Propanone(acetone); ...	0.000		0	N.D. d	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D.	
40) n-Hexane; 110-54-3	0.000		0	N.D.	
41) Vinyl acetate; 108-05-4	0.000		0	N.D.	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Chloroform;67-66-3	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\May\
Data File : T160510_14.D
Acq On : 10 May 2016 11:56 pm
Operator : rgill
Sample : 061-033-12_US EPA; 242455; 5.737L
Misc : C11-32; 18243; 107ngBFB;10:1 split
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 12 15:14:38 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016.M
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.928	95	901567	107.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	13.928	95	901567	107.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	13.928	95	901567	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.928	95	901567	107.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	13.928	95	901567	107.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	13.928	95	901567	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. 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) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
12) Octanal; 124-13-0	0.000		0	N.D. d	
13) Phenol; 108-95-2	0.000		0	N.D. d	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D. d	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D. d	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D. d	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.700	113	144788	68.67 ng	97
22) 1-Methoxy-2-propanol; ...	0.000		0	N.D.	
23) Ethylene glycol; 107-21-1	0.000		0	N.D.	
24) Butyl acetate; 123-86-4	0.000		0	N.D. d	
25) Propylene glycol; 57-55-6	0.000		0	N.D. d	
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
27) Hexanoic acid; 142-62-1	0.000		0	N.D. d	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
30) Dodecanol; 112-53-8	0.000		0	N.D. d	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D. d	
34) Ethanol; 64-17-5	0.000		0	N.D. d	
35) 2-Propanone(acetone); ...	0.000		0	N.D. d	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D.	
40) n-Hexane; 110-54-3	0.000		0	N.D.	
41) Vinyl acetate; 108-05-4	0.000		0	N.D.	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Chloroform;67-66-3	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\May\
Data File : T160512_04.D
Acq On : 12 May 2016 4:27 pm
Operator : rgill
Sample : 061-033-13_US EPA; 242468; 5.005L
Misc : C11-33; 18357; 107ngBFB;10:1 split
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 12 18:07:18 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016.M
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.928	95	886081	107.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	13.928	95	886081	107.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	13.928	95	886081	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.928	95	886081	107.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	13.928	95	886081	107.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	13.928	95	886081	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) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
12) Octanal; 124-13-0	0.000		0	N.D. d	
13) Phenol; 108-95-2	0.000		0	N.D. d	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D. d	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D. d	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D. d	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.700	113	98178	47.38 ng	95
22) 1-Methoxy-2-propanol; ...	0.000		0	N.D.	
23) Ethylene glycol; 107-21-1	0.000		0	N.D.	
24) Butyl acetate; 123-86-4	0.000		0	N.D. d	
25) Propylene glycol; 57-55-6	0.000		0	N.D. d	
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
27) Hexanoic acid; 142-62-1	0.000		0	N.D. d	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
30) Dodecanol; 112-53-8	0.000		0	N.D.	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D. d	
34) Ethanol; 64-17-5	0.000		0	N.D. d	
35) 2-Propanone(acetone); ...	0.000		0	N.D. d	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D.	
40) n-Hexane; 110-54-3	0.000		0	N.D.	
41) Vinyl acetate; 108-05-4	0.000		0	N.D.	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Chloroform;67-66-3	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\May\
Data File : T160512_05.D
Acq On : 12 May 2016 5:15 pm
Operator : rgill
Sample : 061-033-14_US EPA; 203164; 4.922L
Misc : C11-34; 19310; 107ngBFB;10:1 split
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 12 18:08:20 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016.M
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.928	95	852035	107.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	13.928	95	852035	107.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	13.928	95	852035	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.928	95	852035	107.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	13.928	95	852035	107.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	13.928	95	852035	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) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
12) Octanal; 124-13-0	0.000		0	N.D. d	
13) Phenol; 108-95-2	0.000		0	N.D. d	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D. d	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D. d	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D. d	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.700	113	99705	50.04 ng	95
22) 1-Methoxy-2-propanol; ...	0.000		0	N.D.	
23) Ethylene glycol; 107-21-1	0.000		0	N.D.	
24) Butyl acetate; 123-86-4	0.000		0	N.D. d	
25) Propylene glycol; 57-55-6	0.000		0	N.D. d	
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
27) Hexanoic acid; 142-62-1	0.000		0	N.D. d	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
30) Dodecanol; 112-53-8	0.000		0	N.D.	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D. d	
34) Ethanol; 64-17-5	0.000		0	N.D. d	
35) 2-Propanone(acetone); ...	0.000		0	N.D. d	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D. d	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D. d	
40) n-Hexane; 110-54-3	0.000		0	N.D.	
41) Vinyl acetate; 108-05-4	0.000		0	N.D.	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Chloroform;67-66-3	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\May\
Data File : T160512_06.D
Acq On : 12 May 2016 6:02 pm
Operator : rgill
Sample : 061-033-15_US EPA; 203195; 5.125L
Misc : C11-35; 19415; 107ngBFB;10:1 split
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 12:01:12 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016.M
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.929	95	857698	107.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	13.929	95	857698	107.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	13.929	95	857698	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.929	95	857698	107.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	13.929	95	857698	107.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	13.929	95	857698	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) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
12) Octanal; 124-13-0	0.000		0	N.D. d	
13) Phenol; 108-95-2	0.000		0	N.D. d	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D.	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D. d	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D. d	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.705	113	59671	29.75 ng	97
22) 1-Methoxy-2-propanol; ...	0.000		0	N.D.	
23) Ethylene glycol; 107-21-1	0.000		0	N.D.	
24) Butyl acetate; 123-86-4	0.000		0	N.D. d	
25) Propylene glycol; 57-55-6	0.000		0	N.D. d	
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
27) Hexanoic acid; 142-62-1	0.000		0	N.D.	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
30) Dodecanol; 112-53-8	0.000		0	N.D. d	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D. d	
34) Ethanol; 64-17-5	0.000		0	N.D. d	
35) 2-Propanone(acetone); ...	0.000		0	N.D. d	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D. d	
40) n-Hexane; 110-54-3	0.000		0	N.D.	
41) Vinyl acetate; 108-05-4	0.000		0	N.D.	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Chloroform;67-66-3	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\May\
Data File : T160512_07.D
Acq On : 12 May 2016 6:49 pm
Operator : rgill
Sample : 061-033-16_US EPA; 203154; 5.788L
Misc : C11-36; 19331; 107ngBFB;10:1 split
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 12:02:11 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016.M
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.928	95	875439	107.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	13.928	95	875439	107.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	13.928	95	875439	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.928	95	875439	107.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	13.928	95	875439	107.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	13.928	95	875439	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) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
12) Octanal; 124-13-0	0.000		0	N.D. d	
13) Phenol; 108-95-2	0.000		0	N.D. d	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D. d	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D. d	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D. d	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.700	113	92662	45.26 ng	97
22) 1-Methoxy-2-propanol; ...	0.000		0	N.D.	
23) Ethylene glycol; 107-21-1	0.000		0	N.D.	
24) Butyl acetate; 123-86-4	0.000		0	N.D. d	
25) Propylene glycol; 57-55-6	0.000		0	N.D. d	
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
27) Hexanoic acid; 142-62-1	0.000		0	N.D. d	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D.	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
30) Dodecanol; 112-53-8	0.000		0	N.D.	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D. d	
34) Ethanol; 64-17-5	0.000		0	N.D. d	
35) 2-Propanone(acetone); ...	0.000		0	N.D. d	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D.	
40) n-Hexane; 110-54-3	0.000		0	N.D.	
41) Vinyl acetate; 108-05-4	0.000		0	N.D.	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Chloroform;67-66-3	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\May\
Data File : T160512_08.D
Acq On : 12 May 2016 7:37 pm
Operator : rgill
Sample : 061-033-17_US EPA; Mi51114; 5.686L
Misc : C11-37; 19213; 107ngBFB;10:1 split
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 13 12:03:00 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016.M
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.929	95	929586	107.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	13.929	95	929586	107.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	13.929	95	929586	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.929	95	929586	107.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	13.929	95	929586	107.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	13.929	95	929586	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) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
12) Octanal; 124-13-0	0.000		0	N.D. d	
13) Phenol; 108-95-2	0.000		0	N.D. d	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D. d	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D. d	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D. d	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.700	113	113876	52.38 ng	98
22) 1-Methoxy-2-propanol; ...	0.000		0	N.D.	
23) Ethylene glycol; 107-21-1	0.000		0	N.D.	
24) Butyl acetate; 123-86-4	0.000		0	N.D. d	
25) Propylene glycol; 57-55-6	0.000		0	N.D. d	
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
27) Hexanoic acid; 142-62-1	0.000		0	N.D. d	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
30) Dodecanol; 112-53-8	0.000		0	N.D. d	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D. d	
34) Ethanol; 64-17-5	0.000		0	N.D. d	
35) 2-Propanone(acetone); ...	0.000		0	N.D. d	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D.	
40) n-Hexane; 110-54-3	0.000		0	N.D.	
41) Vinyl acetate; 108-05-4	0.000		0	N.D.	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Chloroform;67-66-3	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\May\
Data File : T160512_09.D
Acq On : 12 May 2016 8:24 pm
Operator : rgill
Sample : 061-033-18_US EPA; Mi51111; 5.932L
Misc : C11-38; 8338; 107ngBFB;10:1 split
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 12:04:39 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016.M
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.928	95	932449	107.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	13.928	95	932449	107.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	13.928	95	932449	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.928	95	932449	107.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	13.928	95	932449	107.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	13.928	95	932449	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) Styrene; 100-42-5	0.000		0	N.D. d	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
12) Octanal; 124-13-0	0.000		0	N.D. d	
13) Phenol; 108-95-2	0.000		0	N.D. d	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D. d	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D. d	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D.	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.700	113	213377	97.85 ng	98
22) 1-Methoxy-2-propanol; ...	0.000		0	N.D.	
23) Ethylene glycol; 107-21-1	0.000		0	N.D. d	
24) Butyl acetate; 123-86-4	0.000		0	N.D. d	
25) Propylene glycol; 57-55-6	0.000		0	N.D. d	
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
27) Hexanoic acid; 142-62-1	0.000		0	N.D. d	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
30) Dodecanol; 112-53-8	0.000		0	N.D. d	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D. d	
34) Ethanol; 64-17-5	0.000		0	N.D. d	
35) 2-Propanone(acetone); ...	0.000		0	N.D. d	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D.	
40) n-Hexane; 110-54-3	0.000		0	N.D. d	
41) Vinyl acetate; 108-05-4	0.000		0	N.D.	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Chloroform;67-66-3	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\May\
Data File : T160512_10.D
Acq On : 12 May 2016 9:11 pm
Operator : rgill
Sample : 061-033-19_US EPA; 203119; 4.822L
Misc : C11-39; 8356; 107ngBFB;10:1 split
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 13 12:05:37 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016.M
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.928	95	876123	107.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	13.928	95	876123	107.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	13.928	95	876123	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.928	95	876123	107.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	13.928	95	876123	107.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	13.928	95	876123	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) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
12) Octanal; 124-13-0	0.000		0	N.D. d	
13) Phenol; 108-95-2	0.000		0	N.D. d	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D. d	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D. d	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D.	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.700	113	105750	51.61 ng	97
22) 1-Methoxy-2-propanol; ...	0.000		0	N.D.	
23) Ethylene glycol; 107-21-1	0.000		0	N.D.	
24) Butyl acetate; 123-86-4	0.000		0	N.D. d	
25) Propylene glycol; 57-55-6	0.000		0	N.D. d	
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
27) Hexanoic acid; 142-62-1	0.000		0	N.D. d	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
30) Dodecanol; 112-53-8	0.000		0	N.D.	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D. d	
34) Ethanol; 64-17-5	0.000		0	N.D. d	
35) 2-Propanone(acetone); ...	0.000		0	N.D. d	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D.	
40) n-Hexane; 110-54-3	0.000		0	N.D.	
41) Vinyl acetate; 108-05-4	0.000		0	N.D.	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Chloroform;67-66-3	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\May\
Data File : T160512_11.D
Acq On : 12 May 2016 9:59 pm
Operator : rgill
Sample : 061-033-20_US EPA; 242403; 4.731L
Misc : C11-40; 8223; 107ngBFB;10:1 split
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 13 12:06:32 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016.M
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.933	95	886696	107.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	13.933	95	886696	107.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	13.933	95	886696	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.933	95	886696	107.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	13.933	95	886696	107.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	13.933	95	886696	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) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
12) Octanal; 124-13-0	0.000		0	N.D. d	
13) Phenol; 108-95-2	0.000		0	N.D. d	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D. d	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D. d	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D.	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.700	113	138684	66.88 ng	97
22) 1-Methoxy-2-propanol; ...	0.000		0	N.D.	
23) Ethylene glycol; 107-21-1	0.000		0	N.D. d	
24) Butyl acetate; 123-86-4	0.000		0	N.D. d	
25) Propylene glycol; 57-55-6	0.000		0	N.D. d	
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
27) Hexanoic acid; 142-62-1	0.000		0	N.D. d	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
30) Dodecanol; 112-53-8	0.000		0	N.D.	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D. d	
34) Ethanol; 64-17-5	0.000		0	N.D. d	
35) 2-Propanone(acetone); ...	0.000		0	N.D. d	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D.	
40) n-Hexane; 110-54-3	0.000		0	N.D.	
41) Vinyl acetate; 108-05-4	0.000		0	N.D.	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Chloroform;67-66-3	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\May\
Data File : T160512_12.D
Acq On : 12 May 2016 10:46 pm
Operator : rgill
Sample : 061-033-21_US EPA; 203118; 5.231L
Misc : C11-41; 8146; 107ngBFB;10:1 split
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 13 12:07:40 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016.M
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.928	95	918816	107.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	13.928	95	918816	107.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	13.928	95	918816	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.928	95	918816	107.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	13.928	95	918816	107.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	13.928	95	918816	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) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
12) Octanal; 124-13-0	0.000		0	N.D. d	
13) Phenol; 108-95-2	0.000		0	N.D. d	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D. d	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D. d	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D.	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.700	113	111210	51.75 ng	98
22) 1-Methoxy-2-propanol; ...	0.000		0	N.D.	
23) Ethylene glycol; 107-21-1	0.000		0	N.D. d	
24) Butyl acetate; 123-86-4	0.000		0	N.D. d	
25) Propylene glycol; 57-55-6	0.000		0	N.D. d	
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
27) Hexanoic acid; 142-62-1	0.000		0	N.D. d	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
30) Dodecanol; 112-53-8	0.000		0	N.D.	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D. d	
34) Ethanol; 64-17-5	0.000		0	N.D. d	
35) 2-Propanone(acetone); ...	0.000		0	N.D. d	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D.	
40) n-Hexane; 110-54-3	0.000		0	N.D.	
41) Vinyl acetate; 108-05-4	0.000		0	N.D.	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Chloroform;67-66-3	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\May\
Data File : T160512_13.D
Acq On : 12 May 2016 11:34 pm
Operator : rgill
Sample : 061-033-22_US EPA; 242490; 5.785L
Misc : C11-42; 9356; 107ngBFB;10:1 split
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 13 12:08:32 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016.M
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.933	95	939807	107.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	13.933	95	939807	107.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	13.933	95	939807	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.933	95	939807	107.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	13.933	95	939807	107.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	13.933	95	939807	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.	
8) Xylene {1}; 108-38-3	0.000		0	N.D.	
9) Xylene {2}; 95-47-6	0.000		0	N.D.	
10) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D.	
12) Octanal; 124-13-0	0.000		0	N.D. d	
13) Phenol; 108-95-2	0.000		0	N.D.	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D.	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D. d	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D.	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.724	113	29049	13.22 ng	# 70
22) 1-Methoxy-2-propanol; ...	0.000		0	N.D.	
23) Ethylene glycol; 107-21-1	0.000		0	N.D.	
24) Butyl acetate; 123-86-4	0.000		0	N.D. d	
25) Propylene glycol; 57-55-6	0.000		0	N.D.	
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
27) Hexanoic acid; 142-62-1	0.000		0	N.D.	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D.	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D.	
30) Dodecanol; 112-53-8	0.000		0	N.D.	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D. d	
34) Ethanol; 64-17-5	0.000		0	N.D. d	
35) 2-Propanone(acetone); ...	0.000		0	N.D. d	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.D.	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D.	
40) n-Hexane; 110-54-3	0.000		0	N.D.	
41) Vinyl acetate; 108-05-4	0.000		0	N.D.	
42) 2-Butanone; 78-93-3	0.000		0	N.D.	
43) Ethyl acetate; 141-78-6	0.000		0	N.D.	
44) Chloroform;67-66-3	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\May\
Data File : T160512_14.D
Acq On : 13 May 2016 12:21 am
Operator : rgill
Sample : 061-033-23_US EPA; 203127; 5.678L
Misc : C11-43; 9246; 107ngBFB;10:1 split
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 13 12:09:24 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016.M
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.928	95	890011	107.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	13.928	95	890011	107.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	13.928	95	890011	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.928	95	890011	107.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	13.928	95	890011	107.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	13.928	95	890011	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) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
12) Octanal; 124-13-0	0.000		0	N.D. d	
13) Phenol; 108-95-2	0.000		0	N.D. d	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D. d	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D. d	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D. d	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.705	113	79949	38.41 ng	96
22) 1-Methoxy-2-propanol; ...	0.000		0	N.D.	
23) Ethylene glycol; 107-21-1	0.000		0	N.D.	
24) Butyl acetate; 123-86-4	0.000		0	N.D. d	
25) Propylene glycol; 57-55-6	0.000		0	N.D. d	
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
27) Hexanoic acid; 142-62-1	0.000		0	N.D. d	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
30) Dodecanol; 112-53-8	0.000		0	N.D.	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D. d	
34) Ethanol; 64-17-5	0.000		0	N.D. d	
35) 2-Propanone(acetone); ...	0.000		0	N.D. d	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D.	
40) n-Hexane; 110-54-3	0.000		0	N.D.	
41) Vinyl acetate; 108-05-4	0.000		0	N.D.	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Chloroform;67-66-3	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\May\
Data File : T160512_15.D
Acq On : 13 May 2016 1:08 am
Operator : rgill
Sample : 061-033-24_US EPA; 203163; 5.807L
Misc : C11-44; 9163; 107ngBFB;10:1 split
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 13 12:10:17 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016.M
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.928	95	919423	107.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	13.928	95	919423	107.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	13.928	95	919423	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.928	95	919423	107.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	13.928	95	919423	107.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	13.928	95	919423	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) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
12) Octanal; 124-13-0	0.000		0	N.D. d	
13) Phenol; 108-95-2	0.000		0	N.D. d	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D. d	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D. d	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D. d	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.700	113	129209	60.09 ng	97
22) 1-Methoxy-2-propanol; ...	0.000		0	N.D.	
23) Ethylene glycol; 107-21-1	0.000		0	N.D.	
24) Butyl acetate; 123-86-4	0.000		0	N.D. d	
25) Propylene glycol; 57-55-6	0.000		0	N.D. d	
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
27) Hexanoic acid; 142-62-1	0.000		0	N.D. d	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
30) Dodecanol; 112-53-8	0.000		0	N.D.	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D. d	
34) Ethanol; 64-17-5	0.000		0	N.D. d	
35) 2-Propanone(acetone); ...	0.000		0	N.D. d	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D.	
40) n-Hexane; 110-54-3	0.000		0	N.D.	
41) Vinyl acetate; 108-05-4	0.000		0	N.D.	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Chloroform;67-66-3	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\May\
Data File : T160512_16.D
Acq On : 13 May 2016 1:55 am
Operator : rgill
Sample : 061-033-25_US EPA; 203178; 5L
Misc : C11-45; 91419; 107ngBFB;10:1 split
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 13 12:11:15 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016.M
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.929	95	897556	107.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	13.929	95	897556	107.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	13.929	95	897556	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.929	95	897556	107.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	13.929	95	897556	107.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	13.929	95	897556	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) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
12) Octanal; 124-13-0	0.000		0	N.D. d	
13) Phenol; 108-95-2	0.000		0	N.D. d	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D. d	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D. d	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D. d	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.705	113	79234	37.75 ng	97
22) 1-Methoxy-2-propanol; ...	0.000		0	N.D.	
23) Ethylene glycol; 107-21-1	0.000		0	N.D.	
24) Butyl acetate; 123-86-4	0.000		0	N.D. d	
25) Propylene glycol; 57-55-6	0.000		0	N.D. d	
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
27) Hexanoic acid; 142-62-1	0.000		0	N.D. d	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
30) Dodecanol; 112-53-8	0.000		0	N.D.	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D. d	
34) Ethanol; 64-17-5	0.000		0	N.D. d	
35) 2-Propanone(acetone); ...	0.000		0	N.D. d	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D.	
40) n-Hexane; 110-54-3	0.000		0	N.D.	
41) Vinyl acetate; 108-05-4	0.000		0	N.D.	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Chloroform;67-66-3	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\May\
Data File : T160512_17.D
Acq On : 13 May 2016 2:43 am
Operator : rgill
Sample : 061-033-26_US EPA; Mi58832; 4.916L
Misc : C11-46; 13138; 107ngBFB;10:1 split
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 13 12:12:15 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016.M
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.929	95	907521	107.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	13.929	95	907521	107.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	13.929	95	907521	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.929	95	907521	107.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	13.929	95	907521	107.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	13.929	95	907521	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) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
12) Octanal; 124-13-0	0.000		0	N.D. d	
13) Phenol; 108-95-2	0.000		0	N.D. d	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D. d	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D. d	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D. d	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.700	113	125617	59.19 ng	95
22) 1-Methoxy-2-propanol; ...	0.000		0	N.D.	
23) Ethylene glycol; 107-21-1	0.000		0	N.D.	
24) Butyl acetate; 123-86-4	0.000		0	N.D. d	
25) Propylene glycol; 57-55-6	0.000		0	N.D. d	
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
27) Hexanoic acid; 142-62-1	0.000		0	N.D. d	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
30) Dodecanol; 112-53-8	0.000		0	N.D.	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D. d	
34) Ethanol; 64-17-5	0.000		0	N.D. d	
35) 2-Propanone(acetone); ...	0.000		0	N.D. d	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D.	
40) n-Hexane; 110-54-3	0.000		0	N.D.	
41) Vinyl acetate; 108-05-4	0.000		0	N.D.	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Chloroform;67-66-3	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\May\
Data File : T160512_18.D
Acq On : 13 May 2016 3:30 am
Operator : rgill
Sample : 061-033-27_US EPA; 203134; 5.208L
Misc : C11-47; 13243; 107ngBFB;10:1 split
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 13 12:13:11 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016.M
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.928	95	913106	107.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	13.928	95	913106	107.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	13.928	95	913106	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.928	95	913106	107.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	13.928	95	913106	107.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	13.928	95	913106	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) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
12) Octanal; 124-13-0	0.000		0	N.D. d	
13) Phenol; 108-95-2	0.000		0	N.D. d	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D. d	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D. d	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D. d	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.700	113	92788	43.45 ng	96
22) 1-Methoxy-2-propanol; ...	0.000		0	N.D.	
23) Ethylene glycol; 107-21-1	0.000		0	N.D.	
24) Butyl acetate; 123-86-4	0.000		0	N.D. d	
25) Propylene glycol; 57-55-6	0.000		0	N.D. d	
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
27) Hexanoic acid; 142-62-1	0.000		0	N.D. d	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
30) Dodecanol; 112-53-8	0.000		0	N.D.	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D. d	
34) Ethanol; 64-17-5	0.000		0	N.D. d	
35) 2-Propanone(acetone); ...	0.000		0	N.D. d	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D.	
40) n-Hexane; 110-54-3	0.000		0	N.D.	
41) Vinyl acetate; 108-05-4	0.000		0	N.D.	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Chloroform;67-66-3	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\May\
Data File : T160512_19.D
Acq On : 13 May 2016 4:17 am
Operator : rgill
Sample : 061-033-28_US EPA; Mi193225; 4.427L
Misc : C11-48; 13336; 107ngBFB;10:1 split
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 13 12:14:07 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016.M
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.929	95	904977	107.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	13.929	95	904977	107.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	13.929	95	904977	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.929	95	904977	107.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	13.929	95	904977	107.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	13.929	95	904977	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) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
12) Octanal; 124-13-0	0.000		0	N.D. d	
13) Phenol; 108-95-2	0.000		0	N.D. d	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D. d	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D. d	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D. d	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.695	113	172841	81.67 ng	96
22) 1-Methoxy-2-propanol; ...	0.000		0	N.D.	
23) Ethylene glycol; 107-21-1	0.000		0	N.D.	
24) Butyl acetate; 123-86-4	0.000		0	N.D. d	
25) Propylene glycol; 57-55-6	0.000		0	N.D. d	
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
27) Hexanoic acid; 142-62-1	0.000		0	N.D. d	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
30) Dodecanol; 112-53-8	0.000		0	N.D.	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D. d	
34) Ethanol; 64-17-5	0.000		0	N.D. d	
35) 2-Propanone(acetone); ...	0.000		0	N.D. d	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D.	
40) n-Hexane; 110-54-3	0.000		0	N.D.	
41) Vinyl acetate; 108-05-4	0.000		0	N.D.	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Chloroform;67-66-3	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\May\
Data File : T160512_20.D
Acq On : 13 May 2016 5:04 am
Operator : rgill
Sample : 061-033-29_US EPA; Mi51177; 5.486L
Misc : C11-49; 13344; 107ngBFB;10:1 split
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 13 12:14:57 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016.M
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.929	95	904896	107.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	13.929	95	904896	107.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	13.929	95	904896	107.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	13.929	95	904896	107.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	13.929	95	904896	107.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	13.929	95	904896	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) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
12) Octanal; 124-13-0	0.000		0	N.D. d	
13) Phenol; 108-95-2	0.000		0	N.D. d	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D. d	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D. d	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D. d	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.700	113	139908	66.11 ng	96
22) 1-Methoxy-2-propanol; ...	0.000		0	N.D.	
23) Ethylene glycol; 107-21-1	0.000		0	N.D.	
24) Butyl acetate; 123-86-4	0.000		0	N.D. d	
25) Propylene glycol; 57-55-6	0.000		0	N.D. d	
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
27) Hexanoic acid; 142-62-1	0.000		0	N.D. d	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
30) Dodecanol; 112-53-8	0.000		0	N.D.	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D. d	
34) Ethanol; 64-17-5	0.000		0	N.D. d	
35) 2-Propanone(acetone); ...	0.000		0	N.D. d	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D.	
40) n-Hexane; 110-54-3	0.000		0	N.D.	
41) Vinyl acetate; 108-05-4	0.000		0	N.D.	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Chloroform;67-66-3	0.000		0	N.D.	

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-033-01_US EPA; Mi193227; 5.507L

5/12/2016, Rgill

		BFB(ng)	RF			
TIC: T160510_03.D\data.ms		107		0.97	5.51	
				Mass	**Conc.**	
RT	Area	RelResp		ng	ug/m3	ppb Compound
13.93	3922505.0	1.000		110.3	20.0	bfb-Istd
23.71	843392.0	0.215		48.9	8.9	1.9 Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-033-02_US EPA; Mi59930; 5.48L

5/12/2016, Rgill

	BFB(ng)	RF			
TIC: T160510_04.D\data.ms	107		0.97	5.48	
			Mass	**Conc.**	
RT	Area	RelResp	ng	ug/m3	ppb Compound
13.93	3979513.0	1.000	110.3	20.1	bfb-Istd
23.71	919720.0	0.231	51.0	9.3	2.0 Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-033-03_US EPA; Mi59928; 5.704L

5/12/2016, Rgill

	BFB(ng)	RF			
TIC: T160510_05.D\data.ms	107		0.97	5.70	
			Mass	**Conc.**	
RT	Area	RelResp	ng	ug/m3	ppb Compound
13.93	4206469.0	1.000	110.3	19.3	bfb-Istd
23.71	883572.0	0.210	47.6	8.3	1.8 Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-033-04_US EPA; 242492; 5.887L

5/12/2016, Rgill

	BFB(ng)	RF			
TIC: T160510_06.D\data.ms	107		0.97	5.89	
			Mass	**Conc.**	
RT	Area	RelResp	ng	ug/m3	ppb Compound
13.93	4092405.0	1.000	110.3	18.7	bfb-Istd
23.71	607786.0	0.149	34.5	5.9	1.3 Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-033-05_US EPA; Mi51172; 5.791L

5/12/2016, Rgill

		BFB(ng)	RF			
TIC: T160511_04.D\data.ms		107		0.97	5.79	
				Mass	**Conc.**	
RT	Area	RelResp		ng	ug/m3	ppb Compound
13.93	4034386.0	1.000		110.3	19.0	bfb-Istd
23.71	946407.0	0.235		51.8	8.9	1.9 Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-033-06_US EPA; Mi193211; 6.111L

5/12/2016, Rgill

	BFB(ng)	RF			
TIC: T160510_08.D\data.ms	107		0.97	6.11	
			Mass	**Conc.**	
RT	Area	RelResp	ng	ug/m3	ppb Compound
13.93	3775423.0	1.000	110.3	18.1	bfb-Istd
23.71	905613.0	0.240	54.6	8.9	1.9 Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-033-07_US EPA; Mi51136; 4.535L

5/12/2016, Rgill

	BFB(ng)	RF			
TIC: T160510_09.D\data.ms	107		0.97	4.54	
			Mass	**Conc.**	
RT	Area	RelResp	ng	ug/m3	ppb Compound
13.93	3968004.0	1.000	110.3	24.3	bfb-Istd
23.71	697742.0	0.176	40.3	8.9	1.9 Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-033-08_US EPA; 203137; 4.095L

5/12/2016, Rgill

		BFB(ng)	RF			
TIC: T160510_10.D\data.ms		107	0.97	4.10		
			Mass	**Conc.**		
RT	Area	RelResp	ng	ug/m3	ppb	Compound
13.93	3796624.0	1.000	110.3	26.9		bfb-Istd
23.71	376697.0	0.099	24.1	5.9	1.3	Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-033-09_US EPA; 203112; 4.84L

5/12/2016, Rgill

	BFB(ng)	RF		
TIC: T160510_11.D\data.ms	107	0.97	4.84	

RT	Area	RelResp	Mass ng	Conc. ug/m3	ppb	Compound
13.93	3782685.0	1.000	110.3	22.8		bfb-lstd
23.71	726887.0	0.192	44.0	9.1	2.0	Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-033-10_US EPA; 242485; 4.825L

5/12/2016, Rgill

	BFB(ng)	RF			
TIC: T160510_12.D\data.ms	107		0.97	4.83	
			Mass	**Conc.**	
RT	Area	RelResp	ng	ug/m3	ppb Compound
13.93	3821044.0	1.000	110.3	22.9	bfb-Istd
23.71	497975.0	0.130	29.2	6.0	1.3 Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-033-11_US EPA; Mi193289; 4.764L

5/12/2016, Rgill

		BFB(ng)	RF			
TIC: T160510_13.D\data.ms		107	0.97	4.76		
			Mass	**Conc.**		
RT	Area	RelResp	ng	ug/m3	ppb	Compound
13.93	3840414.0	1.000	110.3	23.2		bfb-Istd
23.71	976694.0	0.254	49.6	10.4	2.3	Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-033-12_US EPA; 242455; 5.737L

5/12/2016, Rgill

	BFB(ng)	RF		
TIC: T160510_14.D\data.ms	107	0.97	5.74	

RT	Area	RelResp	Mass ng	Conc. ug/m3	ppb	Compound
13.93	3950108.0	1.000	110.3	19.2		bfb-lstd
23.71	1283100.0	0.325	68.7	12.0	2.6	Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-033-13_US EPA; 242468; 5.005L

5/12/2016, Rgill

		BFB(ng)	RF				
TIC: T160512_04.D\data.ms		107		0.97	5.01		
				Mass	**Conc.**		
RT	Area	RelResp		ng	ug/m3	ppb	Compound
13.93	3867837.0	1.000		110.3	22.0		bfb-Istd
23.71	912317.0	0.236		47.4	9.5	2.0	Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-033-14_US EPA; 203164; 4.922L

5/12/2016, Rgill

		BFB(ng)	RF			
TIC: T160512_05.D\data.ms		107		0.97	4.92	
				Mass	**Conc.**	
RT	Area	RelResp		ng	ug/m3	ppb Compound
13.93	3729248.0	1.000		110.3	22.4	bfb-Istd
23.71	851808.0	0.228		50.0	10.2	2.2 Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-033-15_US EPA; 203195; 5.125L

5/12/2016, Rgill

		BFB(ng)	RF			
TIC: T160512_06.D\data.ms		107		0.97	5.13	
				Mass	**Conc.**	
RT	Area	RelResp		ng	ug/m3	ppb Compound
13.93	3759547.0	1.000		110.3	21.5	bfb-Istd
23.71	483853.0	0.129		29.8	5.8	1.3 Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-033-16_US EPA; 203154; 5.788L

5/12/2016, Rgill

		BFB(ng)	RF			
TIC: T160512_07.D\data.ms		107		0.97	5.79	
				Mass	**Conc.**	
RT	Area	RelResp		ng	ug/m3	ppb Compound
13.93	3845067.0	1.000		110.3	19.1	bfb-Istd
23.71	808895.0	0.210		45.3	7.8	1.7 Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-033-17_US EPA; Mi51114; 5.686L

5/12/2016, Rgill

		BFB(ng)	RF			
TIC: T160512_08.D\data.ms		107		0.97	5.69	
				Mass	**Conc.**	
RT	Area	RelResp		ng	ug/m3	ppb Compound
13.93	4054045.0	1.000		110.3	19.4	bfb-Istd
23.71	958305.0	0.236		52.4	9.2	2.0 Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-033-18_US EPA; Mi51111; 5.932L

5/12/2016, Rgill

		BFB(ng)	RF			
TIC: T160512_09.D\data.ms		107		0.97	5.93	
				Mass	**Conc.**	
RT	Area	RelResp		ng	ug/m3	ppb Compound
13.93	4105601.0	1.000		110.3	18.6	bfb-lstd
23.71	1854515.0	0.452		97.9	16.5	3.6 Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-033-19_US EPA; 203119; 4.822L

5/12/2016, Rgill

		BFB(ng)	RF			
TIC: T160512_10.D\data.ms		107		0.97	4.82	
				Mass	**Conc.**	
RT	Area	RelResp		ng	ug/m3	ppb Compound
13.93	3835433.0	1.000		110.3	22.9	bfb-istd
23.71	892352.0	0.233		51.6	10.7	2.3 Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-033-20_US EPA; 242403; 4.731L

5/12/2016, Rgill

		BFB(ng)	RF				
TIC: T160512_11.D\data.ms		107		0.97	4.73		
				Mass	**Conc.**		
RT	Area	RelResp		ng	ug/m3	ppb	Compound
13.93	3888419.0	1.000		110.3	23.3		bfb-lstd
23.71	1228320.0	0.316		66.9	14.1	3.1	Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-033-21_US EPA; 203118; 5.231L

5/12/2016, Rgill

		BFB(ng)	RF			
TIC: T160512_12.D\data.ms		107		0.97	5.23	
				Mass	**Conc.**	
RT	Area	RelResp		ng	ug/m3	ppb Compound
13.93	4023017.0	1.000		110.3	21.1	bfb-Istd
23.71	919171.0	0.228		51.8	9.9	2.1 Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-033-22_US EPA; 242490; 5.785L

5/12/2016, Rgill

	BFB(ng)	RF			
TIC: T160512_13.D\data.ms	107		0.97	5.79	
			Mass	**Conc.**	
RT	Area	RelResp	ng	ug/m3	ppb Compound
13.93	4092593.0	1.000	110.3	19.1	bfb-Istd
23.71	201756.0	0.049	13.2	2.3	0.5 Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-033-23_US EPA; 203127; 5.678L

5/12/2016, Rgill

		BFB(ng)	RF			
TIC: T160512_14.D\data.ms		107		0.97	5.68	
				Mass	**Conc.**	
RT	Area	RelResp		ng	ug/m3	ppb Compound
13.93	3914834.0	1.000		110.3	19.4	bfb-lstd
23.71	678644.0	0.173		38.4	6.8	1.5 Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-033-24_US EPA; 203163; 5.807L

5/12/2016, Rgill

		BFB(ng)	RF			
TIC: T160512_15.D\data.ms		107		0.97	5.81	
				Mass	**Conc.**	
RT	Area	RelResp		ng	ug/m3	ppb Compound
13.93	4029082.0	1.000		110.3	19.0	bfb-Istd
23.71	1111210.0	0.276		60.1	10.3	2.2 Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-033-25_US EPA; 203178; 5L

5/12/2016, Rgill

		BFB(ng)	RF			
TIC: T160512_16.D\data.ms		107		0.97	5.00	
				Mass	**Conc.**	
RT	Area	RelResp		ng	ug/m3	ppb Compound
13.93	3933235.0	1.000		110.3	22.1	bfb-istd
23.71	669925.0	0.170		37.8	7.6	1.6 Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-033-26_US EPA; Mi58832; 4.916L

5/12/2016, Rgill

		BFB(ng)	RF			
TIC: T160512_17.D\data.ms		107		0.97	4.92	
				Mass	**Conc.**	
RT	Area	RelResp		ng	ug/m3	ppb Compound
13.93	3983603.0	1.000		110.3	22.4	bfb-Istd
23.71	1094446.0	0.275		59.2	12.0	2.6 Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-033-27_US EPA; 203134; 5.208L

5/12/2016, Rgill

	BFB(ng)	RF			
TIC: T160512_18.D\data.ms	107		0.97	5.21	
			Mass	**Conc.**	
RT	Area	RelResp	ng	ug/m3	ppb Compound
13.93	3998945.0	1.000	110.3	21.2	bfb-Istd
23.71	803150.0	0.201	43.5	8.3	1.8 Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-033-28_US EPA; Mi193225; 4.427L

5/12/2016, Rgill

		BFB(ng)	RF			
TIC: T160512_19.D\data.ms		107		0.97	4.43	
				Mass	Conc.	
RT	Area	RelResp		ng	ug/m3	ppb Compound
13.93	3950627.0	1.000		110.3	24.9	bfb-Istd
23.71	1522971.0	0.386		81.7	18.4	4.0 Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-033-29_US EPA; Mi51177; 5.486L

5/12/2016, Rgill

		BFB(ng)	RF			
TIC: T160512_20.D\data.ms		107		0.97	5.49	
				Mass	**Conc.**	
RT	Area	RelResp		ng	ug/m3	ppb Compound
13.93	3958627.0	1.000		110.3	20.1	bfb-Istd
23.71	1228194.0	0.310		66.1	12.1	2.6 Caprolactam

061-033-01 5.507 litres
US EPA
Mi193227 collected: 5/3/2016
21; 15156

061-033-02 5.48 litres
US EPA
Mi59930 collected: 5/3/2016
C11-22; 15162

061-033-03 5.704 litres
US EPA
Mi59928 collected: 5/3/2016
C11-23; 16361

061-033-04 5.887 litres
US EPA
242492 collected: 5/3/2016
C11-24; 16448

061-033-05 5.791 litres
US EPA
Mi51172 collected: 5/3/2016
C11-25; 16158

061-033-06 6.111 litres
US EPA
Mi193211 collected: 5/3/2016
C11-26; 16133

061-033-07 4.535 litres
US EPA
Mi51136 collected: 5/3/2016
C11-27; 17355

061-033-08 4.095 litres
US EPA
203137 collected: 5/3/2016
C11-28; 17446

061-033-09 4.84 litres
US EPA
203112 collected: 5/3/2016
C11-29; 17144

061-033-10 4.825 litres
US EPA
242485 collected: 5/3/2016
C11-30; 18446

061-033-11 4.764 litres
US EPA
Mi193289 collected: 5/3/2016
C11-31; 18113

061-033-12 5.737 litres
US EPA
242455 collected: 5/3/2016
C11-32; 18243

061-033-13 5.005 litres
US EPA
242468 collected: 5/3/2016
C11-33; 18357

061-033-14 4.922 litres
US EPA
203164 collected: 5/3/2016
C11-34; 19310

061-033-15 5.125 litres
US EPA
203195 collected: 5/3/2016
C11-35; 19415

061-033-16 5.788 litres
US EPA
203154 collected: 5/3/2016
C11-36; 19331

061-033-17 5.686 litres
US EPA
Mi51114 collected: 5/3/2016
C11-37; 19213

061-033-18 5.932 litres
US EPA
Mi51111 collected: 5/3/2016
C11-38; 8338

061-033-19 4.822 litres
US EPA
203119 collected: 5/3/2016
C11-39;8356

061-033-20 4.731 litres
US EPA
242403 collected: 5/3/2016
C11-40; 8223

061-033-21 5.231 litres
US EPA
203118 collected: 5/3/2016
C11-41; 8146

061-033-22 5.785 litres
US EPA
242490 collected: 5/3/2016
C11-42; 9356

061-033-23 5.678 litres
US EPA
203127 collected: 5/3/2016
C11-43; 9246

061-033-24 5.807 litres
US EPA
203163 collected: 5/3/2016
C11-44; 9163

061-033-25 5 litres
US EPA
203178 collected: 5/3/2016
C11-45; 9419

061-033-26 4.916 litres
US EPA
Mi58832 collected: 5/3/2016
C11-46;13138

061-033-27 5.208 litres
US EPA
203134 collected: 5/3/2016
C11-47; 13243

033-28 4.427 litres
US EPA
Mi193225 collected: 5/3/2016
C11-48;13336

061-033-29 5.486 litres
US EPA
Mi51177 collected: 5/3/2016
C11-49; 13344

061-033-31 52.32 litres
US EPA
F11-21 collected: 5/3/2016
21; 15156

061-033-32 56.73 litres
US EPA
F11-22 collected: 5/3/2016
F11-22; 15162

061-033-33 55.48 litres
US EPA
F11-23 collected: 5/3/2016
F11-23; 16361

061-033-34 56.04 litres
US EPA
F11-24 collected: 5/3/2016
F11-24; 16448

061-033-35 59.35 litres
US EPA
F11-25 collected: 5/3/2016
F11-25; 16158

061-033-36 58.99 litres
US EPA
F11-26 collected: 5/3/2016
F11-26; 16133

061-033-37 43.35 litres
US EPA
F11-27 collected: 5/3/2016
F11-27; 17355

061-033-38 42.29 litres
US EPA
F11-28 collected: 5/3/2016
F11-28; 17446

061-033-39 47.32 litres
US EPA
F11-29 collected: 5/3/2016
F11-29; 17144

061-033-40 46.06 litres
US EPA
F11-30 collected: 5/3/2016
F11-30; 18446

061-033-41 50.28 litres
US EPA
F11-31 collected: 5/3/2016
F11-31; 18113

061-033-42 55.98 litres
US EPA
F11-32 collected: 5/3/2016
F11-32; 18243

061-033-43 47.94 litres
US EPA
F11-33 collected: 5/3/2016
F11-33; 18357

061-033-44 47.75 litres
US EPA
F11-34 collected: 5/3/2016
F11-34; 19310

061-033-45 48.89 litres
US EPA
F11-35 collected: 5/3/2016
F11-35; 19415

061-033-46 54.62 litres
US EPA
F11-36 collected: 5/3/2016
F11-36; 19331

061-033-47 54.18 litres
US EPA
F11-37 collected: 5/3/2016
F11-37; 19213

061-033-48 55.63 litres
US EPA
F11-38 collected: 5/3/2016
F11-38;8338

061-033-49 45.96 litres
US EPA
F11-39 collected: 5/3/2016
F11-39;8356

061-033-50 45.35 litres
US EPA
F11-40 collected: 5/3/2016
F11-40;8223

061-033-51 48.78 litres
US EPA
F11-41 collected: 5/3/2016
F11-41;8146

061-033-52 55.55 litres
US EPA
F11-42 collected: 5/3/2016
F11-42;9365

061-033-53 54.74 litres
US EPA
F11-43 collected: 5/3/2016
F11-43;9246

061-033-54 54.22 litres
US EPA
F11-44 collected: 5/3/2016
F11-44;9163

061-033-55 48.35 litres
US EPA
F11-45 collected: 5/3/2016
F11-45;9419

061-033-56 47.53 litres
US EPA
F11-46 collected: 5/3/2016
F11-46;13138

061-033-57 49.62 litres
US EPA
F11-47 collected: 5/3/2016
F11-47;13243

033-58 42.62 litres
US EPA
F11-48 collected: 5/3/2016
F11-48;13336

061-033-59 52.89 litres
US EPA
F11-49 collected: 5/3/2016
F11-49;13344