

9/23/2016

Mr. Curt Lueckenhoff
Missouri Dept. of Natural Resources
2710 West Main

Jefferson City MO 65109

Project Name: Bridgeton Landfill

Project #:

Workorder #: 1609356

Dear Mr. Curt Lueckenhoff

The following report includes the data for the above referenced project for sample(s) received on 9/12/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Brian Whittaker

Project Manager

WORK ORDER #: 1609356

Work Order Summary

CLIENT:	Mr. Curt Lueckenhoff Missouri Dept. of Natural Resources 2710 West Main Jefferson City, MO 65109	BILL TO:	Accounts Payable Missouri Dept. of Natural Resources P.O Box 176 Jefferson City, MO 65102
PHONE:	573-526-3363	P.O. #	3ESP170129
FAX:	573-526-3350	PROJECT #	Bridgeton Landfill
DATE RECEIVED:	09/12/2016	CONTACT:	Brian Whittaker
DATE COMPLETED:	09/23/2016		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	D1 (163455)	Modified TO-15	7.1 "Hg	5.1 psi
02A	D1 (163456)	Modified TO-15	6.1 "Hg	4.9 psi
03A	D1 (163457)	Modified TO-15	8.4 "Hg	5 psi
04A	D1 (163458)	Modified TO-15	7.1 "Hg	4.8 psi
05A	Lab Blank	Modified TO-15	NA	NA
05B	Lab Blank	Modified TO-15	NA	NA
05C	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
06B	CCV	Modified TO-15	NA	NA
06C	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07AA	LCSD	Modified TO-15	NA	NA
07B	LCS	Modified TO-15	NA	NA
07BB	LCSD	Modified TO-15	NA	NA
07C	LCS	Modified TO-15	NA	NA
07CC	LCSD	Modified TO-15	NA	NA

CERTIFIED BY:



Technical Director

DATE: 09/23/16

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.

Eurofins Air Toxics Inc., certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

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LABORATORY NARRATIVE
Modified TO-15
Missouri Dept. of Natural Resources
Workorder# 1609356

Four 6 Liter Summa Canister (SIM Certified Calscience) samples were received on September 12, 2016. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
Initial Calibration	</=30% RSD with 2 compounds allowed out to < 40% RSD	</=30% RSD with 4 compounds allowed out to < 40% RSD
Blank and standards	Zero Air	UHP Nitrogen provides a higher purity gas matrix than zero air

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in CCV analyses have not been flagged.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Summary of Detected Compounds

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: D1 (163455)

Lab ID#: 1609356-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.64	0.88	3.2
Chloromethane	0.88	0.90	1.8	1.8
Freon 11	0.18	0.58	0.99	3.2
Ethanol	0.88	7.4	1.7	14
Acetone	0.88	9.4	2.1	22
2-Propanol	0.88	2.3	2.2	5.6
Hexane	0.18	0.18	0.62	0.62
2-Butanone (Methyl Ethyl Ketone)	0.88	1.1	2.6	3.4
Benzene	0.18	0.52	0.56	1.6
1,2-Dichloroethane	0.18	0.31	0.72	1.2
Toluene	0.18	1.8	0.67	6.7
m,p-Xylene	0.18	0.40	0.77	1.7

Client Sample ID: D1 (163456)

Lab ID#: 1609356-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.64	0.83	3.2
Chloromethane	0.84	0.96	1.7	2.0
Freon 11	0.17	0.56	0.94	3.2
Ethanol	0.84	6.4	1.6	12
Acetone	0.84	5.7	2.0	14
Hexane	0.17	0.19	0.59	0.66
Benzene	0.17	0.82	0.54	2.6
1,2-Dichloroethane	0.17	0.17	0.68	0.68
Trichloroethene	0.17	0.18	0.90	0.96
Toluene	0.17	3.5	0.63	13
Ethyl Benzene	0.17	0.22	0.73	0.96
m,p-Xylene	0.17	0.88	0.73	3.8
o-Xylene	0.17	0.25	0.73	1.1

Summary of Detected Compounds

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: D1 (163457)

Lab ID#: 1609356-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.19	0.65	0.92	3.2
Freon 11	0.19	0.68	1.0	3.8
Ethanol	0.93	7.1	1.8	13
Acetone	0.93	5.9	2.2	14
Benzene	0.19	0.29	0.59	0.94
Toluene	0.19	0.22	0.70	0.83
m,p-Xylene	0.19	0.27	0.81	1.2

Client Sample ID: D1 (163458)

Lab ID#: 1609356-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.39	0.86	1.9
Freon 11	0.17	0.37	0.98	2.1
Ethanol	0.87	4.4	1.6	8.3
Acetone	0.87	2.9	2.1	6.9



Air Toxics

Client Sample ID: D1 (163455)

Lab ID#: 1609356-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	20092012	Date of Collection:	9/6/16 1:30:00 PM
Dil. Factor:	1.77	Date of Analysis:	9/20/16 04:36 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.64	0.88	3.2
Freon 114	0.18	Not Detected	1.2	Not Detected
Chloromethane	0.88	0.90	1.8	1.8
Vinyl Chloride	0.18	Not Detected	0.45	Not Detected
1,3-Butadiene	0.18	Not Detected	0.39	Not Detected
Bromomethane	0.88	Not Detected	3.4	Not Detected
Chloroethane	0.88	Not Detected	2.3	Not Detected
Freon 11	0.18	0.58	0.99	3.2
Ethanol	0.88	7.4	1.7	14
Freon 113	0.18	Not Detected	1.4	Not Detected
1,1-Dichloroethene	0.18	Not Detected	0.70	Not Detected
Acetone	0.88	9.4	2.1	22
2-Propanol	0.88	2.3	2.2	5.6
Carbon Disulfide	0.88	Not Detected	2.8	Not Detected
3-Chloropropene	0.88	Not Detected	2.8	Not Detected
Methylene Chloride	0.35	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.18	Not Detected	0.64	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.70	Not Detected
Hexane	0.18	0.18	0.62	0.62
1,1-Dichloroethane	0.18	Not Detected	0.72	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.88	1.1	2.6	3.4
cis-1,2-Dichloroethene	0.18	Not Detected	0.70	Not Detected
Tetrahydrofuran	0.88	Not Detected	2.6	Not Detected
Chloroform	0.18	Not Detected	0.86	Not Detected
1,1,1-Trichloroethane	0.18	Not Detected	0.96	Not Detected
Cyclohexane	0.18	Not Detected	0.61	Not Detected
Carbon Tetrachloride	0.18	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.88	Not Detected	4.1	Not Detected
Benzene	0.18	0.52	0.56	1.6
1,2-Dichloroethane	0.18	0.31	0.72	1.2
Heptane	0.18	Not Detected	0.72	Not Detected
Trichloroethene	0.18	Not Detected	0.95	Not Detected
1,2-Dichloropropane	0.18	Not Detected	0.82	Not Detected
1,4-Dioxane	0.18	Not Detected	0.64	Not Detected
Bromodichloromethane	0.18	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.18	Not Detected	0.80	Not Detected
4-Methyl-2-pentanone	0.18	Not Detected	0.72	Not Detected
Toluene	0.18	1.8	0.67	6.7
trans-1,3-Dichloropropene	0.18	Not Detected	0.80	Not Detected
1,1,2-Trichloroethane	0.18	Not Detected	0.96	Not Detected
Tetrachloroethene	0.18	Not Detected	1.2	Not Detected
2-Hexanone	0.88	Not Detected	3.6	Not Detected



Air Toxics

Client Sample ID: D1 (163455)

Lab ID#: 1609356-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	20092012	Date of Collection:	9/6/16 1:30:00 PM
Dil. Factor:	1.77	Date of Analysis:	9/20/16 04:36 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.18	Not Detected	1.5	Not Detected
1,2-Dibromoethane (EDB)	0.18	Not Detected	1.4	Not Detected
Chlorobenzene	0.18	Not Detected	0.81	Not Detected
Ethyl Benzene	0.18	Not Detected	0.77	Not Detected
m,p-Xylene	0.18	0.40	0.77	1.7
o-Xylene	0.18	Not Detected	0.77	Not Detected
Styrene	0.18	Not Detected	0.75	Not Detected
Bromoform	0.18	Not Detected	1.8	Not Detected
Cumene	0.18	Not Detected	0.87	Not Detected
1,1,2,2-Tetrachloroethane	0.18	Not Detected	1.2	Not Detected
Propylbenzene	0.18	Not Detected	0.87	Not Detected
4-Ethyltoluene	0.18	Not Detected	0.87	Not Detected
1,3,5-Trimethylbenzene	0.18	Not Detected	0.87	Not Detected
1,2,4-Trimethylbenzene	0.18	Not Detected	0.87	Not Detected
1,3-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
1,4-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
alpha-Chlorotoluene	0.18	Not Detected	0.92	Not Detected
1,2-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
1,2,4-Trichlorobenzene	0.88	Not Detected	6.6	Not Detected
Hexachlorobutadiene	0.88	Not Detected	9.4	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified Calscience)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	118	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	100	70-130



Air Toxics

Client Sample ID: D1 (163456)

Lab ID#: 1609356-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	20092013	Date of Collection:	9/6/16 1:35:00 PM
Dil. Factor:	1.68	Date of Analysis:	9/20/16 05:14 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.64	0.83	3.2
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.84	0.96	1.7	2.0
Vinyl Chloride	0.17	Not Detected	0.43	Not Detected
1,3-Butadiene	0.17	Not Detected	0.37	Not Detected
Bromomethane	0.84	Not Detected	3.3	Not Detected
Chloroethane	0.84	Not Detected	2.2	Not Detected
Freon 11	0.17	0.56	0.94	3.2
Ethanol	0.84	6.4	1.6	12
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Acetone	0.84	5.7	2.0	14
2-Propanol	0.84	Not Detected	2.1	Not Detected
Carbon Disulfide	0.84	Not Detected	2.6	Not Detected
3-Chloropropene	0.84	Not Detected	2.6	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.60	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Hexane	0.17	0.19	0.59	0.66
1,1-Dichloroethane	0.17	Not Detected	0.68	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.84	Not Detected	2.5	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Tetrahydrofuran	0.84	Not Detected	2.5	Not Detected
Chloroform	0.17	Not Detected	0.82	Not Detected
1,1,1-Trichloroethane	0.17	Not Detected	0.92	Not Detected
Cyclohexane	0.17	Not Detected	0.58	Not Detected
Carbon Tetrachloride	0.17	Not Detected	1.0	Not Detected
2,2,4-Trimethylpentane	0.84	Not Detected	3.9	Not Detected
Benzene	0.17	0.82	0.54	2.6
1,2-Dichloroethane	0.17	0.17	0.68	0.68
Heptane	0.17	Not Detected	0.69	Not Detected
Trichloroethene	0.17	0.18	0.90	0.96
1,2-Dichloropropane	0.17	Not Detected	0.78	Not Detected
1,4-Dioxane	0.17	Not Detected	0.60	Not Detected
Bromodichloromethane	0.17	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.76	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.69	Not Detected
Toluene	0.17	3.5	0.63	13
trans-1,3-Dichloropropene	0.17	Not Detected	0.76	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.92	Not Detected
Tetrachloroethene	0.17	Not Detected	1.1	Not Detected
2-Hexanone	0.84	Not Detected	3.4	Not Detected

Client Sample ID: D1 (163456)

Lab ID#: 1609356-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	20092013	Date of Collection:	9/6/16 1:35:00 PM
Dil. Factor:	1.68	Date of Analysis:	9/20/16 05:14 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.17	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected
Chlorobenzene	0.17	Not Detected	0.77	Not Detected
Ethyl Benzene	0.17	0.22	0.73	0.96
m,p-Xylene	0.17	0.88	0.73	3.8
o-Xylene	0.17	0.25	0.73	1.1
Styrene	0.17	Not Detected	0.72	Not Detected
Bromoform	0.17	Not Detected	1.7	Not Detected
Cumene	0.17	Not Detected	0.82	Not Detected
1,1,2,2-Tetrachloroethane	0.17	Not Detected	1.2	Not Detected
Propylbenzene	0.17	Not Detected	0.82	Not Detected
4-Ethyltoluene	0.17	Not Detected	0.82	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.82	Not Detected
1,2,4-Trimethylbenzene	0.17	Not Detected	0.82	Not Detected
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.17	Not Detected	0.87	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.84	Not Detected	6.2	Not Detected
Hexachlorobutadiene	0.84	Not Detected	9.0	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified Calscience)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	123	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	99	70-130



Air Toxics

Client Sample ID: D1 (163457)

Lab ID#: 1609356-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	20092121	Date of Collection:	9/6/16 3:20:00 PM
Dil. Factor:	1.86	Date of Analysis:	9/21/16 10:39 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.19	0.65	0.92	3.2
Freon 114	0.19	Not Detected	1.3	Not Detected
Chloromethane	0.93	Not Detected	1.9	Not Detected
Vinyl Chloride	0.19	Not Detected	0.48	Not Detected
1,3-Butadiene	0.19	Not Detected	0.41	Not Detected
Bromomethane	0.93	Not Detected	3.6	Not Detected
Chloroethane	0.93	Not Detected	2.4	Not Detected
Freon 11	0.19	0.68	1.0	3.8
Ethanol	0.93	7.1	1.8	13
Freon 113	0.19	Not Detected	1.4	Not Detected
1,1-Dichloroethene	0.19	Not Detected	0.74	Not Detected
Acetone	0.93	5.9	2.2	14
2-Propanol	0.93	Not Detected	2.3	Not Detected
Carbon Disulfide	0.93	Not Detected	2.9	Not Detected
3-Chloropropene	0.93	Not Detected	2.9	Not Detected
Methylene Chloride	0.37	Not Detected	1.3	Not Detected
Methyl tert-butyl ether	0.19	Not Detected	0.67	Not Detected
trans-1,2-Dichloroethene	0.19	Not Detected	0.74	Not Detected
Hexane	0.19	Not Detected	0.66	Not Detected
1,1-Dichloroethane	0.19	Not Detected	0.75	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.93	Not Detected	2.7	Not Detected
cis-1,2-Dichloroethene	0.19	Not Detected	0.74	Not Detected
Tetrahydrofuran	0.93	Not Detected	2.7	Not Detected
Chloroform	0.19	Not Detected	0.91	Not Detected
1,1,1-Trichloroethane	0.19	Not Detected	1.0	Not Detected
Cyclohexane	0.19	Not Detected	0.64	Not Detected
Carbon Tetrachloride	0.19	Not Detected	1.2	Not Detected
2,2,4-Trimethylpentane	0.93	Not Detected	4.3	Not Detected
Benzene	0.19	0.29	0.59	0.94
1,2-Dichloroethane	0.19	Not Detected	0.75	Not Detected
Heptane	0.19	Not Detected	0.76	Not Detected
Trichloroethene	0.19	Not Detected	1.0	Not Detected
1,2-Dichloropropane	0.19	Not Detected	0.86	Not Detected
1,4-Dioxane	0.19	Not Detected	0.67	Not Detected
Bromodichloromethane	0.19	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.19	Not Detected	0.84	Not Detected
4-Methyl-2-pentanone	0.19	Not Detected	0.76	Not Detected
Toluene	0.19	0.22	0.70	0.83
trans-1,3-Dichloropropene	0.19	Not Detected	0.84	Not Detected
1,1,2-Trichloroethane	0.19	Not Detected	1.0	Not Detected
Tetrachloroethene	0.19	Not Detected	1.3	Not Detected
2-Hexanone	0.93	Not Detected	3.8	Not Detected



Air Toxics

Client Sample ID: D1 (163457)

Lab ID#: 1609356-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	20092121	Date of Collection:	9/6/16 3:20:00 PM
Dil. Factor:	1.86	Date of Analysis:	9/21/16 10:39 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.19	Not Detected	1.6	Not Detected
1,2-Dibromoethane (EDB)	0.19	Not Detected	1.4	Not Detected
Chlorobenzene	0.19	Not Detected	0.86	Not Detected
Ethyl Benzene	0.19	Not Detected	0.81	Not Detected
m,p-Xylene	0.19	0.27	0.81	1.2
o-Xylene	0.19	Not Detected	0.81	Not Detected
Styrene	0.19	Not Detected	0.79	Not Detected
Bromoform	0.19	Not Detected	1.9	Not Detected
Cumene	0.19	Not Detected	0.91	Not Detected
1,1,2,2-Tetrachloroethane	0.19	Not Detected	1.3	Not Detected
Propylbenzene	0.19	Not Detected	0.91	Not Detected
4-Ethyltoluene	0.19	Not Detected	0.91	Not Detected
1,3,5-Trimethylbenzene	0.19	Not Detected	0.91	Not Detected
1,2,4-Trimethylbenzene	0.19	Not Detected	0.91	Not Detected
1,3-Dichlorobenzene	0.19	Not Detected	1.1	Not Detected
1,4-Dichlorobenzene	0.19	Not Detected	1.1	Not Detected
alpha-Chlorotoluene	0.19	Not Detected	0.96	Not Detected
1,2-Dichlorobenzene	0.19	Not Detected	1.1	Not Detected
1,2,4-Trichlorobenzene	0.93	Not Detected	6.9	Not Detected
Hexachlorobutadiene	0.93	Not Detected	9.9	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified Calscience)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	124	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	96	70-130



Air Toxics

Client Sample ID: D1 (163458)

Lab ID#: 1609356-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e092210	Date of Collection:	9/6/16 1:45:00 PM
Dil. Factor:	1.74	Date of Analysis:	9/22/16 01:39 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.39	0.86	1.9
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.87	Not Detected	1.8	Not Detected
Vinyl Chloride	0.17	Not Detected	0.44	Not Detected
1,3-Butadiene	0.17	Not Detected	0.38	Not Detected
Bromomethane	0.87	Not Detected	3.4	Not Detected
Chloroethane	0.87	Not Detected	2.3	Not Detected
Freon 11	0.17	0.37	0.98	2.1
Ethanol	0.87	4.4	1.6	8.3
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.69	Not Detected
Acetone	0.87	2.9	2.1	6.9
2-Propanol	0.87	Not Detected	2.1	Not Detected
Carbon Disulfide	0.87	Not Detected	2.7	Not Detected
3-Chloropropene	0.87	Not Detected	2.7	Not Detected
Methylene Chloride	0.35	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.63	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.69	Not Detected
Hexane	0.17	Not Detected	0.61	Not Detected
1,1-Dichloroethane	0.17	Not Detected	0.70	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.87	Not Detected	2.6	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.69	Not Detected
Tetrahydrofuran	0.87	Not Detected UJ	2.6	Not Detected UJ
Chloroform	0.17	Not Detected	0.85	Not Detected
1,1,1-Trichloroethane	0.17	Not Detected	0.95	Not Detected
Cyclohexane	0.17	Not Detected	0.60	Not Detected
Carbon Tetrachloride	0.17	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.87	Not Detected	4.1	Not Detected
Benzene	0.17	Not Detected	0.56	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.70	Not Detected
Heptane	0.17	Not Detected	0.71	Not Detected
Trichloroethene	0.17	Not Detected	0.94	Not Detected
1,2-Dichloropropane	0.17	Not Detected	0.80	Not Detected
1,4-Dioxane	0.17	Not Detected	0.63	Not Detected
Bromodichloromethane	0.17	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.79	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.71	Not Detected
Toluene	0.17	Not Detected	0.66	Not Detected
trans-1,3-Dichloropropene	0.17	Not Detected	0.79	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.95	Not Detected
Tetrachloroethene	0.17	Not Detected	1.2	Not Detected
2-Hexanone	0.87	Not Detected	3.6	Not Detected

Client Sample ID: D1 (163458)

Lab ID#: 1609356-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e092210	Date of Collection:	9/6/16 1:45:00 PM
Dil. Factor:	1.74	Date of Analysis:	9/22/16 01:39 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.17	Not Detected	1.5	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected
Chlorobenzene	0.17	Not Detected	0.80	Not Detected
Ethyl Benzene	0.17	Not Detected	0.76	Not Detected
m,p-Xylene	0.17	Not Detected	0.76	Not Detected
o-Xylene	0.17	Not Detected	0.76	Not Detected
Styrene	0.17	Not Detected	0.74	Not Detected
Bromoform	0.17	Not Detected	1.8	Not Detected
Cumene	0.17	Not Detected	0.86	Not Detected
1,1,2,2-Tetrachloroethane	0.17	Not Detected	1.2	Not Detected
Propylbenzene	0.17	Not Detected	0.86	Not Detected
4-Ethyltoluene	0.17	Not Detected	0.86	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.86	Not Detected
1,2,4-Trimethylbenzene	0.17	Not Detected	0.86	Not Detected
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.17	Not Detected	0.90	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.87	Not Detected	6.4	Not Detected
Hexachlorobutadiene	0.87	Not Detected	9.3	Not Detected

UJ = Analyte associated with low bias in the CCV.

Container Type: 6 Liter Summa Canister (SIM Certified Calscience)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	119	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	94	70-130

Client Sample ID: Lab Blank

Lab ID#: 1609356-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	20092009	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/20/16 01:50 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Freon 114	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.50	Not Detected	1.0	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1609356-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	20092009	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/20/16 01:50 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	88	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1609356-05B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	20092108	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/21/16 12:21 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Freon 114	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.50	Not Detected	1.0	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1609356-05B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	20092108	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/21/16 12:21 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	88	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1609356-05C

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: e092209

Date of Collection: NA

Dil. Factor: 1.00

Date of Analysis: 9/22/16 12:51 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Freon 114	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.50	Not Detected	1.0	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrahydrofuran	0.50	Not Detected UJ	1.5	Not Detected UJ
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 1609356-05C

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e092209	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/22/16 12:51 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

UJ = Analyte associated with low bias in the CCV.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	119	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130

Client Sample ID: CCV

Lab ID#: 1609356-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	20092002	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/20/16 07:54 AM

Compound	%Recovery
Freon 12	108
Freon 114	96
Chloromethane	101
Vinyl Chloride	100
1,3-Butadiene	97
Bromomethane	118
Chloroethane	97
Freon 11	98
Ethanol	96
Freon 113	91
1,1-Dichloroethene	89
Acetone	93
2-Propanol	92
Carbon Disulfide	102
3-Chloropropene	101
Methylene Chloride	92
Methyl tert-butyl ether	96
trans-1,2-Dichloroethene	94
Hexane	96
1,1-Dichloroethane	100
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	97
Tetrahydrofuran	103
Chloroform	103
1,1,1-Trichloroethane	101
Cyclohexane	96
Carbon Tetrachloride	105
2,2,4-Trimethylpentane	100
Benzene	104
1,2-Dichloroethane	113
Heptane	112
Trichloroethene	102
1,2-Dichloropropane	108
1,4-Dioxane	100
Bromodichloromethane	116
cis-1,3-Dichloropropene	108
4-Methyl-2-pentanone	119
Toluene	107
trans-1,3-Dichloropropene	113
1,1,2-Trichloroethane	105
Tetrachloroethene	100
2-Hexanone	106

Client Sample ID: CCV

Lab ID#: 1609356-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	20092002	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/20/16 07:54 AM

Compound	%Recovery
Dibromochloromethane	122
1,2-Dibromoethane (EDB)	111
Chlorobenzene	104
Ethyl Benzene	109
m,p-Xylene	107
o-Xylene	108
Styrene	116
Bromoform	124
Cumene	114
1,1,2,2-Tetrachloroethane	117
Propylbenzene	106
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	112
1,2,4-Trimethylbenzene	109
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	94
alpha-Chlorotoluene	118
1,2-Dichlorobenzene	102
1,2,4-Trichlorobenzene	88
Hexachlorobutadiene	82

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	101	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1609356-06B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	20092104	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/21/16 09:32 AM

Compound	%Recovery
Freon 12	115
Freon 114	103
Chloromethane	109
Vinyl Chloride	107
1,3-Butadiene	106
Bromomethane	120
Chloroethane	100
Freon 11	101
Ethanol	94
Freon 113	92
1,1-Dichloroethene	90
Acetone	96
2-Propanol	92
Carbon Disulfide	104
3-Chloropropene	99
Methylene Chloride	94
Methyl tert-butyl ether	97
trans-1,2-Dichloroethene	96
Hexane	98
1,1-Dichloroethane	103
2-Butanone (Methyl Ethyl Ketone)	102
cis-1,2-Dichloroethene	97
Tetrahydrofuran	104
Chloroform	105
1,1,1-Trichloroethane	102
Cyclohexane	97
Carbon Tetrachloride	106
2,2,4-Trimethylpentane	103
Benzene	108
1,2-Dichloroethane	116
Heptane	113
Trichloroethene	103
1,2-Dichloropropane	109
1,4-Dioxane	103
Bromodichloromethane	117
cis-1,3-Dichloropropene	109
4-Methyl-2-pentanone	120
Toluene	109
trans-1,3-Dichloropropene	114
1,1,2-Trichloroethane	106
Tetrachloroethene	100
2-Hexanone	107



Air Toxics

Client Sample ID: CCV

Lab ID#: 1609356-06B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	20092104	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/21/16 09:32 AM

Compound	%Recovery
Dibromochloromethane	121
1,2-Dibromoethane (EDB)	111
Chlorobenzene	106
Ethyl Benzene	107
m,p-Xylene	107
o-Xylene	106
Styrene	110
Bromoform	124
Cumene	111
1,1,2,2-Tetrachloroethane	121
Propylbenzene	102
4-Ethyltoluene	94
1,3,5-Trimethylbenzene	111
1,2,4-Trimethylbenzene	107
1,3-Dichlorobenzene	98
1,4-Dichlorobenzene	92
alpha-Chlorotoluene	112
1,2-Dichlorobenzene	99
1,2,4-Trichlorobenzene	89
Hexachlorobutadiene	84

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: CCV

Lab ID#: 1609356-06C

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e092202	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/22/16 07:37 AM

Compound	%Recovery
Freon 12	100
Freon 114	97
Chloromethane	74
Vinyl Chloride	78
1,3-Butadiene	73
Bromomethane	95
Chloroethane	90
Freon 11	108
Ethanol	106
Freon 113	90
1,1-Dichloroethene	88
Acetone	76
2-Propanol	78
Carbon Disulfide	86
3-Chloropropene	110
Methylene Chloride	82
Methyl tert-butyl ether	86
trans-1,2-Dichloroethene	90
Hexane	74
1,1-Dichloroethane	85
2-Butanone (Methyl Ethyl Ketone)	80
cis-1,2-Dichloroethene	83
Tetrahydrofuran	64 Q
Chloroform	94
1,1,1-Trichloroethane	104
Cyclohexane	83
Carbon Tetrachloride	102
2,2,4-Trimethylpentane	82
Benzene	93
1,2-Dichloroethane	111
Heptane	89
Trichloroethene	102
1,2-Dichloropropane	90
1,4-Dioxane	94
Bromodichloromethane	108
cis-1,3-Dichloropropene	89
4-Methyl-2-pentanone	89
Toluene	96
trans-1,3-Dichloropropene	92
1,1,2-Trichloroethane	93
Tetrachloroethene	113
2-Hexanone	82



Air Toxics

Client Sample ID: CCV

Lab ID#: 1609356-06C

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e092202	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/22/16 07:37 AM

Compound	%Recovery
Dibromochloromethane	108
1,2-Dibromoethane (EDB)	104
Chlorobenzene	103
Ethyl Benzene	98
m,p-Xylene	104
o-Xylene	102
Styrene	105
Bromoform	116
Cumene	95
1,1,2,2-Tetrachloroethane	78
Propylbenzene	89
4-Ethyltoluene	93
1,3,5-Trimethylbenzene	90
1,2,4-Trimethylbenzene	82
1,3-Dichlorobenzene	88
1,4-Dichlorobenzene	93
alpha-Chlorotoluene	86
1,2-Dichlorobenzene	98
1,2,4-Trichlorobenzene	135 Q
Hexachlorobutadiene	140 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: LCS

Lab ID#: 1609356-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	20092003	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/20/16 08:38 AM

Compound	%Recovery	Method Limits
Freon 12	104	70-130
Freon 114	96	70-130
Chloromethane	102	70-130
Vinyl Chloride	97	70-130
1,3-Butadiene	93	70-130
Bromomethane	118	70-130
Chloroethane	94	70-130
Freon 11	96	70-130
Ethanol	94	70-130
Freon 113	85	70-130
1,1-Dichloroethene	86	70-130
Acetone	92	70-130
2-Propanol	90	70-130
Carbon Disulfide	84	70-130
3-Chloropropene	91	70-130
Methylene Chloride	89	70-130
Methyl tert-butyl ether	86	70-130
trans-1,2-Dichloroethene	91	70-130
Hexane	91	70-130
1,1-Dichloroethane	91	70-130
2-Butanone (Methyl Ethyl Ketone)	89	70-130
cis-1,2-Dichloroethene	86	70-130
Tetrahydrofuran	94	70-130
Chloroform	96	70-130
1,1,1-Trichloroethane	93	70-130
Cyclohexane	92	70-130
Carbon Tetrachloride	107	70-130
2,2,4-Trimethylpentane	95	70-130
Benzene	96	70-130
1,2-Dichloroethane	104	70-130
Heptane	104	70-130
Trichloroethene	93	70-130
1,2-Dichloropropane	101	70-130
1,4-Dioxane	93	70-130
Bromodichloromethane	111	70-130
cis-1,3-Dichloropropene	93	70-130
4-Methyl-2-pentanone	109	70-130
Toluene	100	70-130
trans-1,3-Dichloropropene	106	70-130
1,1,2-Trichloroethane	97	70-130
Tetrachloroethene	92	70-130
2-Hexanone	101	70-130

Client Sample ID: LCS

Lab ID#: 1609356-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	20092003	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/20/16 08:38 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	114	70-130
1,2-Dibromoethane (EDB)	102	70-130
Chlorobenzene	96	70-130
Ethyl Benzene	99	70-130
m,p-Xylene	98	70-130
o-Xylene	100	70-130
Styrene	103	70-130
Bromoform	118	70-130
Cumene	103	70-130
1,1,2,2-Tetrachloroethane	107	70-130
Propylbenzene	97	70-130
4-Ethyltoluene	86	70-130
1,3,5-Trimethylbenzene	100	70-130
1,2,4-Trimethylbenzene	94	70-130
1,3-Dichlorobenzene	90	70-130
1,4-Dichlorobenzene	84	70-130
alpha-Chlorotoluene	116	70-130
1,2-Dichlorobenzene	92	70-130
1,2,4-Trichlorobenzene	86	70-130
Hexachlorobutadiene	81	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	103	70-130

Client Sample ID: LCSD

Lab ID#: 1609356-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	20092004	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/20/16 09:20 AM

Compound	%Recovery	Method Limits
Freon 12	106	70-130
Freon 114	98	70-130
Chloromethane	96	70-130
Vinyl Chloride	99	70-130
1,3-Butadiene	95	70-130
Bromomethane	115	70-130
Chloroethane	95	70-130
Freon 11	99	70-130
Ethanol	99	70-130
Freon 113	87	70-130
1,1-Dichloroethene	88	70-130
Acetone	95	70-130
2-Propanol	94	70-130
Carbon Disulfide	87	70-130
3-Chloropropene	91	70-130
Methylene Chloride	91	70-130
Methyl tert-butyl ether	89	70-130
trans-1,2-Dichloroethene	93	70-130
Hexane	93	70-130
1,1-Dichloroethane	95	70-130
2-Butanone (Methyl Ethyl Ketone)	92	70-130
cis-1,2-Dichloroethene	90	70-130
Tetrahydrofuran	96	70-130
Chloroform	98	70-130
1,1,1-Trichloroethane	96	70-130
Cyclohexane	93	70-130
Carbon Tetrachloride	110	70-130
2,2,4-Trimethylpentane	99	70-130
Benzene	95	70-130
1,2-Dichloroethane	102	70-130
Heptane	102	70-130
Trichloroethene	94	70-130
1,2-Dichloropropane	99	70-130
1,4-Dioxane	92	70-130
Bromodichloromethane	110	70-130
cis-1,3-Dichloropropene	94	70-130
4-Methyl-2-pentanone	110	70-130
Toluene	99	70-130
trans-1,3-Dichloropropene	106	70-130
1,1,2-Trichloroethane	96	70-130
Tetrachloroethene	93	70-130
2-Hexanone	102	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1609356-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	20092004	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/20/16 09:20 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	113	70-130
1,2-Dibromoethane (EDB)	102	70-130
Chlorobenzene	96	70-130
Ethyl Benzene	100	70-130
m,p-Xylene	101	70-130
o-Xylene	101	70-130
Styrene	105	70-130
Bromoform	119	70-130
Cumene	104	70-130
1,1,2,2-Tetrachloroethane	107	70-130
Propylbenzene	99	70-130
4-Ethyltoluene	90	70-130
1,3,5-Trimethylbenzene	102	70-130
1,2,4-Trimethylbenzene	95	70-130
1,3-Dichlorobenzene	93	70-130
1,4-Dichlorobenzene	87	70-130
alpha-Chlorotoluene	118	70-130
1,2-Dichlorobenzene	94	70-130
1,2,4-Trichlorobenzene	93	70-130
Hexachlorobutadiene	93	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	106	70-130

Client Sample ID: LCS

Lab ID#: 1609356-07B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	20092105	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/21/16 10:16 AM

Compound	%Recovery	Method Limits
Freon 12	108	70-130
Freon 114	100	70-130
Chloromethane	99	70-130
Vinyl Chloride	101	70-130
1,3-Butadiene	97	70-130
Bromomethane	120	70-130
Chloroethane	99	70-130
Freon 11	99	70-130
Ethanol	96	70-130
Freon 113	87	70-130
1,1-Dichloroethene	87	70-130
Acetone	93	70-130
2-Propanol	91	70-130
Carbon Disulfide	86	70-130
3-Chloropropene	91	70-130
Methylene Chloride	89	70-130
Methyl tert-butyl ether	87	70-130
trans-1,2-Dichloroethene	94	70-130
Hexane	92	70-130
1,1-Dichloroethane	94	70-130
2-Butanone (Methyl Ethyl Ketone)	91	70-130
cis-1,2-Dichloroethene	89	70-130
Tetrahydrofuran	96	70-130
Chloroform	98	70-130
1,1,1-Trichloroethane	96	70-130
Cyclohexane	93	70-130
Carbon Tetrachloride	109	70-130
2,2,4-Trimethylpentane	94	70-130
Benzene	100	70-130
1,2-Dichloroethane	108	70-130
Heptane	106	70-130
Trichloroethene	96	70-130
1,2-Dichloropropane	104	70-130
1,4-Dioxane	93	70-130
Bromodichloromethane	111	70-130
cis-1,3-Dichloropropene	96	70-130
4-Methyl-2-pentanone	112	70-130
Toluene	101	70-130
trans-1,3-Dichloropropene	107	70-130
1,1,2-Trichloroethane	96	70-130
Tetrachloroethene	93	70-130
2-Hexanone	97	70-130

Client Sample ID: LCS

Lab ID#: 1609356-07B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	20092105	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/21/16 10:16 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	112	70-130
1,2-Dibromoethane (EDB)	102	70-130
Chlorobenzene	97	70-130
Ethyl Benzene	98	70-130
m,p-Xylene	97	70-130
o-Xylene	98	70-130
Styrene	99	70-130
Bromoform	118	70-130
Cumene	103	70-130
1,1,2,2-Tetrachloroethane	107	70-130
Propylbenzene	97	70-130
4-Ethyltoluene	86	70-130
1,3,5-Trimethylbenzene	100	70-130
1,2,4-Trimethylbenzene	93	70-130
1,3-Dichlorobenzene	90	70-130
1,4-Dichlorobenzene	84	70-130
alpha-Chlorotoluene	110	70-130
1,2-Dichlorobenzene	90	70-130
1,2,4-Trichlorobenzene	86	70-130
Hexachlorobutadiene	82	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	99	70-130

Client Sample ID: LCSD

Lab ID#: 1609356-07BB

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	20092106	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/21/16 10:54 AM

Compound	%Recovery	Method Limits
Freon 12	103	70-130
Freon 114	96	70-130
Chloromethane	96	70-130
Vinyl Chloride	97	70-130
1,3-Butadiene	94	70-130
Bromomethane	117	70-130
Chloroethane	96	70-130
Freon 11	97	70-130
Ethanol	93	70-130
Freon 113	84	70-130
1,1-Dichloroethene	85	70-130
Acetone	91	70-130
2-Propanol	91	70-130
Carbon Disulfide	85	70-130
3-Chloropropene	89	70-130
Methylene Chloride	87	70-130
Methyl tert-butyl ether	85	70-130
trans-1,2-Dichloroethene	90	70-130
Hexane	90	70-130
1,1-Dichloroethane	92	70-130
2-Butanone (Methyl Ethyl Ketone)	91	70-130
cis-1,2-Dichloroethene	86	70-130
Tetrahydrofuran	94	70-130
Chloroform	95	70-130
1,1,1-Trichloroethane	94	70-130
Cyclohexane	89	70-130
Carbon Tetrachloride	106	70-130
2,2,4-Trimethylpentane	93	70-130
Benzene	100	70-130
1,2-Dichloroethane	106	70-130
Heptane	107	70-130
Trichloroethene	96	70-130
1,2-Dichloropropane	106	70-130
1,4-Dioxane	97	70-130
Bromodichloromethane	114	70-130
cis-1,3-Dichloropropene	96	70-130
4-Methyl-2-pentanone	112	70-130
Toluene	101	70-130
trans-1,3-Dichloropropene	110	70-130
1,1,2-Trichloroethane	101	70-130
Tetrachloroethene	93	70-130
2-Hexanone	99	70-130

Client Sample ID: LCSD

Lab ID#: 1609356-07BB

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	20092106	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/21/16 10:54 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	117	70-130
1,2-Dibromoethane (EDB)	104	70-130
Chlorobenzene	97	70-130
Ethyl Benzene	99	70-130
m,p-Xylene	96	70-130
o-Xylene	98	70-130
Styrene	99	70-130
Bromoform	121	70-130
Cumene	102	70-130
1,1,2,2-Tetrachloroethane	110	70-130
Propylbenzene	96	70-130
4-Ethyltoluene	84	70-130
1,3,5-Trimethylbenzene	94	70-130
1,2,4-Trimethylbenzene	89	70-130
1,3-Dichlorobenzene	88	70-130
1,4-Dichlorobenzene	82	70-130
alpha-Chlorotoluene	111	70-130
1,2-Dichlorobenzene	88	70-130
1,2,4-Trichlorobenzene	88	70-130
Hexachlorobutadiene	85	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: LCS

Lab ID#: 1609356-07C

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e092203	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/22/16 08:20 AM

Compound	%Recovery	Method Limits
Freon 12	111	70-130
Freon 114	105	70-130
Chloromethane	84	70-130
Vinyl Chloride	82	70-130
1,3-Butadiene	71	70-130
Bromomethane	97	70-130
Chloroethane	92	70-130
Freon 11	112	70-130
Ethanol	98	70-130
Freon 113	90	70-130
1,1-Dichloroethene	86	70-130
Acetone	68 Q	70-130
2-Propanol	76	70-130
Carbon Disulfide	71	70-130
3-Chloropropene	101	70-130
Methylene Chloride	81	70-130
Methyl tert-butyl ether	77	70-130
trans-1,2-Dichloroethene	92	70-130
Hexane	72	70-130
1,1-Dichloroethane	79	70-130
2-Butanone (Methyl Ethyl Ketone)	78	70-130
cis-1,2-Dichloroethene	82	70-130
Tetrahydrofuran	53 Q	70-130
Chloroform	89	70-130
1,1,1-Trichloroethane	97	70-130
Cyclohexane	86	70-130
Carbon Tetrachloride	92	70-130
2,2,4-Trimethylpentane	78	70-130
Benzene	84	70-130
1,2-Dichloroethane	100	70-130
Heptane	79	70-130
Trichloroethene	98	70-130
1,2-Dichloropropane	83	70-130
1,4-Dioxane	82	70-130
Bromodichloromethane	101	70-130
cis-1,3-Dichloropropene	75	70-130
4-Methyl-2-pentanone	79	70-130
Toluene	86	70-130
trans-1,3-Dichloropropene	88	70-130
1,1,2-Trichloroethane	90	70-130
Tetrachloroethene	111	70-130
2-Hexanone	78	70-130

Client Sample ID: LCS

Lab ID#: 1609356-07C

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e092203	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/22/16 08:20 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	108	70-130
1,2-Dibromoethane (EDB)	96	70-130
Chlorobenzene	95	70-130
Ethyl Benzene	95	70-130
m,p-Xylene	94	70-130
o-Xylene	98	70-130
Styrene	101	70-130
Bromoform	117	70-130
Cumene	92	70-130
1,1,1,2-Tetrachloroethane	75	70-130
Propylbenzene	85	70-130
4-Ethyltoluene	84	70-130
1,3,5-Trimethylbenzene	79	70-130
1,2,4-Trimethylbenzene	71	70-130
1,3-Dichlorobenzene	83	70-130
1,4-Dichlorobenzene	87	70-130
alpha-Chlorotoluene	87	70-130
1,2-Dichlorobenzene	90	70-130
1,2,4-Trichlorobenzene	121	70-130
Hexachlorobutadiene	128	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	106	70-130

Client Sample ID: LCSD

Lab ID#: 1609356-07CC

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e092204	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/22/16 09:02 AM

Compound	%Recovery	Method Limits
Freon 12	94	70-130
Freon 114	93	70-130
Chloromethane	67 Q	70-130
Vinyl Chloride	76	70-130
1,3-Butadiene	65 Q	70-130
Bromomethane	86	70-130
Chloroethane	96	70-130
Freon 11	105	70-130
Ethanol	83	70-130
Freon 113	84	70-130
1,1-Dichloroethene	80	70-130
Acetone	74	70-130
2-Propanol	74	70-130
Carbon Disulfide	69 Q	70-130
3-Chloropropene	90	70-130
Methylene Chloride	78	70-130
Methyl tert-butyl ether	79	70-130
trans-1,2-Dichloroethene	85	70-130
Hexane	66 Q	70-130
1,1-Dichloroethane	78	70-130
2-Butanone (Methyl Ethyl Ketone)	69 Q	70-130
cis-1,2-Dichloroethene	72	70-130
Tetrahydrofuran	54 Q	70-130
Chloroform	89	70-130
1,1,1-Trichloroethane	94	70-130
Cyclohexane	78	70-130
Carbon Tetrachloride	94	70-130
2,2,4-Trimethylpentane	77	70-130
Benzene	83	70-130
1,2-Dichloroethane	102	70-130
Heptane	83	70-130
Trichloroethene	95	70-130
1,2-Dichloropropane	75	70-130
1,4-Dioxane	83	70-130
Bromodichloromethane	101	70-130
cis-1,3-Dichloropropene	76	70-130
4-Methyl-2-pentanone	84	70-130
Toluene	88	70-130
trans-1,3-Dichloropropene	88	70-130
1,1,2-Trichloroethane	90	70-130
Tetrachloroethene	104	70-130
2-Hexanone	79	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1609356-07CC

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: e092204

Date of Collection: NA

Dil. Factor: 1.00

Date of Analysis: 9/22/16 09:02 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	103	70-130
1,2-Dibromoethane (EDB)	94	70-130
Chlorobenzene	94	70-130
Ethyl Benzene	89	70-130
m,p-Xylene	95	70-130
o-Xylene	97	70-130
Styrene	99	70-130
Bromoform	110	70-130
Cumene	87	70-130
1,1,2,2-Tetrachloroethane	71	70-130
Propylbenzene	83	70-130
4-Ethyltoluene	84	70-130
1,3,5-Trimethylbenzene	76	70-130
1,2,4-Trimethylbenzene	72	70-130
1,3-Dichlorobenzene	79	70-130
1,4-Dichlorobenzene	84	70-130
alpha-Chlorotoluene	85	70-130
1,2-Dichlorobenzene	86	70-130
1,2,4-Trichlorobenzene	117	70-130
Hexachlorobutadiene	121	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	104	70-130