

June 8, 2017

Mr. William McKercher
Mississippi Department of Environmental Quality
515 E. Amite Street
Jackson, MS 39201

Mr. Ben Lightsey
Mississippi Department of Environmental Quality
515 E. Amite Street
Jackson, MS 39201

Re: Sub-Slab Depressurization System ("SSD") – Indoor Air Sampling, Former Holley
Automotive/Coltec Industries Facility, Water Valley, MS

Dear Messrs. McKercher and Lightsey:

On behalf of EnPro Industries, Inc., enclosed please find the laboratory report for indoor air samples taken on May 25, 2017 and received from the laboratory on June 1, 2017. Please note that the results for sample "IA-SUMP" do not meet the project's data quality objectives for reproducibility due to an equipment error with the flow controller. However, a duplicate sample "IA-SUMP-DUP" was taken and First Environment plans to resample this area next week.

Should you have any questions, please do not hesitate to contact me.

Very truly yours,

FIRST ENVIRONMENT, INC.



Bernard T. Delaney, Ph.D., P.E., BCEE
President
Mississippi P.E. No. 11041

cc: Trudy Fisher, Esq.
Benne Hutson, Esq.
Amanda Tollison, Esq.



ATTACHMENT

May 31, 2017

First Environment, Inc.

Sample Delivery Group: L912423
Samples Received: 05/27/2017
Project Number: ENPRO 002B
Description: EnPro 002B
Site: OXFORD, MS
Report To: Michael T. Slack
91 Fulton Street
Boonton, NJ 07005

Entire Report Reviewed By:



John Hawkins

Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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IA-6 L912423-01 Air

			Collected by Michael T. Slack	Collected date/time 05/25/17 07:15	Received date/time 05/27/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG983937	1	05/28/17 18:13	05/28/17 18:13	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG984027	25	05/29/17 09:33	05/29/17 09:33	MBF

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

IA-17 L912423-02 Air

			Collected by Michael T. Slack	Collected date/time 05/25/17 07:30	Received date/time 05/27/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG983937	1	05/28/17 19:04	05/28/17 19:04	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG984027	25	05/29/17 10:15	05/29/17 10:15	MBF

IA-1 L912423-03 Air

			Collected by Michael T. Slack	Collected date/time 05/25/17 07:40	Received date/time 05/27/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG983937	1	05/28/17 19:53	05/28/17 19:53	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG984027	25	05/29/17 10:58	05/29/17 10:58	MBF

IA-K13 L912423-04 Air

			Collected by Michael T. Slack	Collected date/time 05/25/17 07:55	Received date/time 05/27/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG983937	1	05/28/17 20:52	05/28/17 20:52	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG984027	25	05/29/17 11:41	05/29/17 11:41	MBF

IA-B12 L912423-05 Air

			Collected by Michael T. Slack	Collected date/time 05/25/17 08:10	Received date/time 05/27/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG983937	1	05/28/17 21:43	05/28/17 21:43	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG984027	25	05/29/17 12:23	05/29/17 12:23	MBF

IA-G13 L912423-06 Air

			Collected by Michael T. Slack	Collected date/time 05/25/17 08:15	Received date/time 05/27/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG983937	1	05/28/17 22:38	05/28/17 22:38	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG984027	25	05/29/17 13:07	05/29/17 13:07	MBF

IA-C16 L912423-07 Air

			Collected by Michael T. Slack	Collected date/time 05/25/17 08:25	Received date/time 05/27/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG983937	1	05/28/17 23:28	05/28/17 23:28	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG984027	25	05/29/17 13:49	05/29/17 13:49	MBF



IA-2 L912423-08 Air

			Collected by Michael T. Slack	Collected date/time 05/25/17 08:45	Received date/time 05/27/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG983937	1	05/29/17 00:47	05/29/17 00:47	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG984027	25	05/29/17 14:32	05/29/17 14:32	MBF

¹ Cp² Tc³ Ss

IA-L16 L912423-09 Air

			Collected by Michael T. Slack	Collected date/time 05/25/17 08:55	Received date/time 05/27/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG983937	1	05/29/17 01:37	05/29/17 01:37	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG984027	25	05/29/17 15:13	05/29/17 15:13	MBF

⁴ Cn⁵ Sr⁶ Qc

IA-K8 L912423-10 Air

			Collected by Michael T. Slack	Collected date/time 05/25/17 09:05	Received date/time 05/27/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG983937	1	05/29/17 02:28	05/29/17 02:28	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG984027	25	05/29/17 15:56	05/29/17 15:56	MBF

⁷ Gl⁸ Al⁹ Sc

IA-G4 L912423-11 Air

			Collected by Michael T. Slack	Collected date/time 05/25/17 09:25	Received date/time 05/27/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG984019	1	05/29/17 11:02	05/29/17 11:02	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG984274	25	05/30/17 17:06	05/30/17 17:06	MBF

IA-D5 L912423-12 Air

			Collected by Michael T. Slack	Collected date/time 05/25/17 09:30	Received date/time 05/27/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG984019	1	05/29/17 11:57	05/29/17 11:57	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG984274	25	05/30/17 17:47	05/30/17 17:47	MBF

AA-2 L912423-13 Air

			Collected by Michael T. Slack	Collected date/time 05/25/17 09:45	Received date/time 05/27/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG984019	1	05/29/17 12:48	05/29/17 12:48	MBF

IA-SUMP L912423-14 Air

			Collected by Michael T. Slack	Collected date/time 05/25/17 10:00	Received date/time 05/27/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG984019	1	05/29/17 13:38	05/29/17 13:38	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG984274	25	05/30/17 18:28	05/30/17 18:28	MBF

IA-SUMP-DUP L912423-15 Air

Collected by
Michael T. Slack

Collected date/time
05/25/17 10:05

Received date/time
05/27/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG984019	1	05/29/17 14:40	05/29/17 14:40	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG984274	10	05/30/17 19:09	05/30/17 19:09	MBF

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

John Hawkins
Technical Service Representative

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

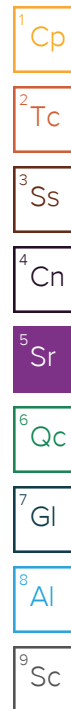


Collected date/time: 05/25/17 07:15

L912423

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	31.2	74.1	98.2	233		25	WG984027
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG983937
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG983937
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG983937
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG983937
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG983937
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG983937
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG983937
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG983937
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG983937
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG983937
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG983937
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG983937
Chloromethane	74-87-3	50.50	0.200	0.413	0.691	1.43		1	WG983937
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG983937
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG983937
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG983937
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG983937
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG983937
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG983937
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG983937
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG983937
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG983937
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG983937
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG983937
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG983937
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG983937
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG983937
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG983937
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG983937
Ethanol	64-17-5	46.10	15.8	29.8	2230	4210	E	25	WG984027
Ethylbenzene	100-41-4	106	0.200	0.867	0.333	1.44		1	WG983937
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG983937
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.234	1.32		1	WG983937
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.308	1.53		1	WG983937
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG983937
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG983937
Heptane	142-82-5	100	0.200	0.818	6.33	25.9		1	WG983937
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG983937
n-Hexane	110-54-3	86.20	0.200	0.705	ND	ND		1	WG983937
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG983937
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG983937
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG983937
2-Butanone (MEK)	78-93-3	72.10	31.2	92.0	210	620		25	WG984027
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG983937
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG983937
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG983937
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG983937
2-Propanol	67-63-0	60.10	31.2	76.7	2740	6730	E	25	WG984027
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG983937
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG983937
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG983937
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG983937
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	0.867	2.56		1	WG983937
Toluene	108-88-3	92.10	0.200	0.753	0.888	3.34		1	WG983937
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG983937



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG983937
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG983937
Trichloroethylene	79-01-6	131	0.200	1.07	3.56	19.1		1	WG983937
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.746	3.66		1	WG983937
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.259	1.27		1	WG983937
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG983937
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG983937
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG983937
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG983937
m&p-Xylene	1330-20-7	106	0.400	1.73	1.11	4.81		1	WG983937
o-Xylene	95-47-6	106	0.200	0.867	0.341	1.48		1	WG983937
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.1				WG984027
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		116				WG983937

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Collected date/time: 05/25/17 07:30

L912423

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	31.2	74.1	151	359		25	WG984027
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG983937
Benzene	71-43-2	78.10	0.200	0.639	4.77	15.3		1	WG983937
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG983937
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG983937
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG983937
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG983937
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG983937
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG983937
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG983937
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG983937
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG983937
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG983937
Chloromethane	74-87-3	50.50	0.200	0.413	0.679	1.40		1	WG983937
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG983937
Cyclohexane	110-82-7	84.20	0.200	0.689	1.86	6.42		1	WG983937
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG983937
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG983937
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG983937
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG983937
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG983937
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG983937
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG983937
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG983937
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG983937
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG983937
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG983937
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG983937
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG983937
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG983937
Ethanol	64-17-5	46.10	15.8	29.8	1860	3500	E	25	WG984027
Ethylbenzene	100-41-4	106	0.200	0.867	4.82	20.9		1	WG983937
4-Ethyltoluene	622-96-8	120	0.200	0.982	3.40	16.7		1	WG983937
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.347	1.95		1	WG983937
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.446	2.21		1	WG983937
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG983937
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG983937
Heptane	142-82-5	100	0.200	0.818	16.7	68.2		1	WG983937
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG983937
n-Hexane	110-54-3	86.20	0.200	0.705	18.6	65.6		1	WG983937
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG983937
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.932	3.24		1	WG983937
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG983937
2-Butanone (MEK)	78-93-3	72.10	31.2	92.0	200	591		25	WG984027
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG983937
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG983937
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG983937
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG983937
2-Propanol	67-63-0	60.10	31.2	76.7	1340	3300	E	25	WG984027
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG983937
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG983937
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG983937
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG983937
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	2.51	7.40		1	WG983937
Toluene	108-88-3	92.10	0.200	0.753	31.9	120		1	WG983937
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG983937

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG983937
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG983937
Trichloroethylene	79-01-6	131	0.200	1.07	0.775	4.15		1	WG983937
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	3.28	16.1		1	WG983937
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.961	4.72		1	WG983937
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	5.01	23.4		1	WG983937
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG983937
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG983937
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG983937
m&p-Xylene	1330-20-7	106	0.400	1.73	18.0	78.0		1	WG983937
o-Xylene	95-47-6	106	0.200	0.867	5.71	24.8		1	WG983937
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.5				WG984027
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		113				WG983937

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Collected date/time: 05/25/17 07:40

L912423

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	31.2	74.1	174	414		25	WG984027
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG983937
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG983937
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG983937
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG983937
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG983937
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG983937
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG983937
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG983937
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG983937
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG983937
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG983937
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG983937
Chloromethane	74-87-3	50.50	0.200	0.413	0.775	1.60		1	WG983937
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG983937
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG983937
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG983937
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG983937
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG983937
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG983937
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG983937
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG983937
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG983937
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG983937
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG983937
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG983937
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG983937
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG983937
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG983937
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG983937
Ethanol	64-17-5	46.10	15.8	29.8	1510	2850	E	25	WG984027
Ethylbenzene	100-41-4	106	0.200	0.867	0.379	1.64		1	WG983937
4-Ethyltoluene	622-96-8	120	0.200	0.982	0.888	4.36		1	WG983937
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.227	1.27		1	WG983937
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.383	1.90		1	WG983937
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG983937
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG983937
Heptane	142-82-5	100	0.200	0.818	3.61	14.8		1	WG983937
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG983937
n-Hexane	110-54-3	86.20	0.200	0.705	0.274	0.966		1	WG983937
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG983937
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG983937
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG983937
2-Butanone (MEK)	78-93-3	72.10	31.2	92.0	171	503		25	WG984027
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG983937
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG983937
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG983937
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG983937
2-Propanol	67-63-0	60.10	31.2	76.7	5210	12800	E	25	WG984027
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG983937
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG983937
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG983937
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG983937
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	19.6	57.8		1	WG983937
Toluene	108-88-3	92.10	0.200	0.753	1.91	7.19		1	WG983937
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG983937

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG983937
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG983937
Trichloroethylene	79-01-6	131	0.200	1.07	41.0	219		1	WG983937
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	1.92	9.40		1	WG983937
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.825	4.05		1	WG983937
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG983937
Vinyl chloride	75-01-4	62.50	0.200	0.511	0.206	0.526		1	WG983937
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG983937
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG983937
m&p-Xylene	1330-20-7	106	0.400	1.73	1.49	6.48		1	WG983937
o-Xylene	95-47-6	106	0.200	0.867	0.523	2.27		1	WG983937
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.5				WG984027
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		118				WG983937

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

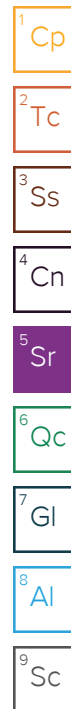


Collected date/time: 05/25/17 07:55

L912423

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	31.2	74.1	186	443		25	WG984027
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG983937
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG983937
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG983937
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG983937
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG983937
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG983937
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG983937
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG983937
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG983937
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG983937
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG983937
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG983937
Chloromethane	74-87-3	50.50	0.200	0.413	0.950	1.96		1	WG983937
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG983937
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG983937
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG983937
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG983937
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG983937
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG983937
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG983937
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG983937
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG983937
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG983937
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG983937
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG983937
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG983937
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG983937
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG983937
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG983937
Ethanol	64-17-5	46.10	15.8	29.8	2590	4870	E	25	WG984027
Ethylbenzene	100-41-4	106	0.200	0.867	0.647	2.80		1	WG983937
4-Ethyltoluene	622-96-8	120	0.200	0.982	0.801	3.93		1	WG983937
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.238	1.34		1	WG983937
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.318	1.57		1	WG983937
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG983937
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG983937
Heptane	142-82-5	100	0.200	0.818	18.4	75.2		1	WG983937
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG983937
n-Hexane	110-54-3	86.20	0.200	0.705	ND	ND		1	WG983937
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG983937
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG983937
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG983937
2-Butanone (MEK)	78-93-3	72.10	31.2	92.0	236	697		25	WG984027
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG983937
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG983937
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG983937
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG983937
2-Propanol	67-63-0	60.10	31.2	76.7	3510	8640	E	25	WG984027
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG983937
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG983937
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG983937
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG983937
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	0.724	2.14		1	WG983937
Toluene	108-88-3	92.10	0.200	0.753	1.37	5.16		1	WG983937
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG983937





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L912423

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG983937
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG983937
Trichloroethylene	79-01-6	131	0.200	1.07	0.985	5.28		1	WG983937
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	1.53	7.50		1	WG983937
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.404	1.98		1	WG983937
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG983937
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG983937
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG983937
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG983937
m&p-Xylene	1330-20-7	106	0.400	1.73	2.55	11.1		1	WG983937
o-Xylene	95-47-6	106	0.200	0.867	0.811	3.52		1	WG983937
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.7				WG984027
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		121				WG983937

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Collected date/time: 05/25/17 08:10

L912423

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	31.2	74.1	160	381		25	WG984027
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG983937
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG983937
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG983937
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG983937
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG983937
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG983937
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG983937
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG983937
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG983937
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG983937
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG983937
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG983937
Chloromethane	74-87-3	50.50	0.200	0.413	0.744	1.54		1	WG983937
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG983937
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG983937
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG983937
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG983937
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG983937
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG983937
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG983937
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG983937
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG983937
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG983937
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG983937
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG983937
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG983937
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG983937
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG983937
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG983937
Ethanol	64-17-5	46.10	15.8	29.8	2040	3850	E	25	WG984027
Ethylbenzene	100-41-4	106	0.200	0.867	0.600	2.60		1	WG983937
4-Ethyltoluene	622-96-8	120	0.200	0.982	0.262	1.29		1	WG983937
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.243	1.36		1	WG983937
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.280	1.38		1	WG983937
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG983937
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG983937
Heptane	142-82-5	100	0.200	0.818	22.7	92.7		1	WG983937
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG983937
n-Hexane	110-54-3	86.20	0.200	0.705	0.281	0.990		1	WG983937
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG983937
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.200	0.695	B	1	WG983937
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG983937
2-Butanone (MEK)	78-93-3	72.10	31.2	92.0	206	608		25	WG984027
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG983937
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG983937
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG983937
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG983937
2-Propanol	67-63-0	60.10	31.2	76.7	2160	5320	E	25	WG984027
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG983937
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG983937
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG983937
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG983937
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	0.751	2.22		1	WG983937
Toluene	108-88-3	92.10	0.200	0.753	1.42	5.35		1	WG983937
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG983937

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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L912423

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG983937
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG983937
Trichloroethylene	79-01-6	131	0.200	1.07	0.575	3.08		1	WG983937
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	1.28	6.28		1	WG983937
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.393	1.93		1	WG983937
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG983937
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG983937
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG983937
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG983937
m&p-Xylene	1330-20-7	106	0.400	1.73	2.31	10.0		1	WG983937
o-Xylene	95-47-6	106	0.200	0.867	0.751	3.26		1	WG983937
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.8				WG984027
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		116				WG983937

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc

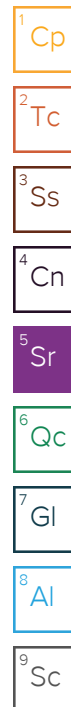


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L912423

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	31.2	74.1	107	254		25	WG984027
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG983937
Benzene	71-43-2	78.10	0.200	0.639	1.14	3.64		1	WG983937
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG983937
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG983937
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG983937
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG983937
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG983937
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG983937
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG983937
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG983937
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG983937
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG983937
Chloromethane	74-87-3	50.50	0.200	0.413	0.658	1.36		1	WG983937
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG983937
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG983937
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG983937
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG983937
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG983937
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG983937
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG983937
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG983937
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG983937
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG983937
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG983937
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG983937
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG983937
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG983937
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG983937
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG983937
Ethanol	64-17-5	46.10	15.8	29.8	1350	2550	E	25	WG984027
Ethylbenzene	100-41-4	106	0.200	0.867	1.61	6.97		1	WG983937
4-Ethyltoluene	622-96-8	120	0.200	0.982	1.42	6.98		1	WG983937
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.260	1.46		1	WG983937
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.344	1.70		1	WG983937
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG983937
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG983937
Heptane	142-82-5	100	0.200	0.818	21.7	88.9		1	WG983937
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG983937
n-Hexane	110-54-3	86.20	0.200	0.705	3.68	13.0		1	WG983937
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG983937
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.367	1.28	B	1	WG983937
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG983937
2-Butanone (MEK)	78-93-3	72.10	31.2	92.0	129	380		25	WG984027
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG983937
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG983937
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG983937
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG983937
2-Propanol	67-63-0	60.10	31.2	76.7	1560	3850	E	25	WG984027
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG983937
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG983937
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG983937
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG983937
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	1.04	3.08		1	WG983937
Toluene	108-88-3	92.10	0.200	0.753	7.87	29.7		1	WG983937
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG983937





Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG983937
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG983937
Trichloroethylene	79-01-6	131	0.200	1.07	0.725	3.88		1	WG983937
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	2.06	10.1		1	WG983937
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.613	3.01		1	WG983937
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	1.12	5.24		1	WG983937
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG983937
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG983937
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG983937
m&p-Xylene	1330-20-7	106	0.400	1.73	6.04	26.2		1	WG983937
o-Xylene	95-47-6	106	0.200	0.867	1.95	8.44		1	WG983937
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.1				WG984027
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		113				WG983937

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Cp

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Tc

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Ss

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Cn

5

Sr

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Qc

7

Gl

8

Al

9

Sc

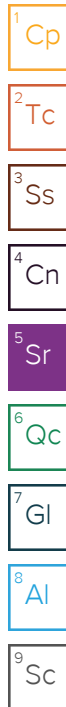


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L912423

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	31.2	74.1	159	377		25	WG984027
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG983937
Benzene	71-43-2	78.10	0.200	0.639	0.259	0.827		1	WG983937
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG983937
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG983937
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG983937
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG983937
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG983937
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG983937
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG983937
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG983937
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG983937
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG983937
Chloromethane	74-87-3	50.50	0.200	0.413	0.563	1.16		1	WG983937
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG983937
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG983937
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG983937
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG983937
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG983937
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG983937
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG983937
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG983937
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG983937
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG983937
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG983937
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG983937
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG983937
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG983937
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG983937
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG983937
Ethanol	64-17-5	46.10	15.8	29.8	2200	4160	E	25	WG984027
Ethylbenzene	100-41-4	106	0.200	0.867	0.456	1.98		1	WG983937
4-Ethyltoluene	622-96-8	120	0.200	0.982	0.464	2.28		1	WG983937
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.221	1.24		1	WG983937
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.282	1.39		1	WG983937
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG983937
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG983937
Heptane	142-82-5	100	0.200	0.818	21.9	89.5		1	WG983937
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG983937
n-Hexane	110-54-3	86.20	0.200	0.705	ND	ND		1	WG983937
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG983937
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.217	0.753	B	1	WG983937
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG983937
2-Butanone (MEK)	78-93-3	72.10	31.2	92.0	318	937		25	WG984027
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG983937
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG983937
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG983937
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG983937
2-Propanol	67-63-0	60.10	31.2	76.7	2330	5730	E	25	WG984027
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG983937
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG983937
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG983937
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG983937
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	0.784	2.31		1	WG983937
Toluene	108-88-3	92.10	0.200	0.753	1.05	3.96		1	WG983937
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG983937





Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG983937
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG983937
Trichloroethylene	79-01-6	131	0.200	1.07	0.473	2.54		1	WG983937
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.958	4.70		1	WG983937
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.297	1.46		1	WG983937
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG983937
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG983937
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG983937
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG983937
m&p-Xylene	1330-20-7	106	0.400	1.73	1.58	6.84		1	WG983937
o-Xylene	95-47-6	106	0.200	0.867	0.503	2.18		1	WG983937
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.0				WG984027
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		113				WG983937

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Collected date/time: 05/25/17 08:45

L912423

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	31.2	74.1	234	556		25	WG984027
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG983937
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG983937
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG983937
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG983937
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG983937
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG983937
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG983937
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG983937
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG983937
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG983937
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG983937
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG983937
Chloromethane	74-87-3	50.50	0.200	0.413	0.683	1.41		1	WG983937
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG983937
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG983937
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG983937
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG983937
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG983937
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG983937
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG983937
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG983937
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG983937
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG983937
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG983937
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG983937
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG983937
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG983937
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG983937
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG983937
Ethanol	64-17-5	46.10	15.8	29.8	1700	3200	E	25	WG984027
Ethylbenzene	100-41-4	106	0.200	0.867	0.477	2.07		1	WG983937
4-Ethyltoluene	622-96-8	120	0.200	0.982	0.742	3.64		1	WG983937
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.204	1.14		1	WG983937
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.394	1.95		1	WG983937
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG983937
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG983937
Heptane	142-82-5	100	0.200	0.818	4.58	18.7		1	WG983937
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG983937
n-Hexane	110-54-3	86.20	0.200	0.705	0.257	0.906		1	WG983937
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG983937
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG983937
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG983937
2-Butanone (MEK)	78-93-3	72.10	31.2	92.0	198	585		25	WG984027
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG983937
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG983937
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG983937
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG983937
2-Propanol	67-63-0	60.10	31.2	76.7	3520	8660	E	25	WG984027
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG983937
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG983937
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG983937
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG983937
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	19.7	58.1		1	WG983937
Toluene	108-88-3	92.10	0.200	0.753	1.42	5.34		1	WG983937
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG983937

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG983937
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG983937
Trichloroethylene	79-01-6	131	0.200	1.07	29.8	160		1	WG983937
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	1.55	7.63		1	WG983937
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.562	2.76		1	WG983937
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG983937
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG983937
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG983937
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG983937
m&p-Xylene	1330-20-7	106	0.400	1.73	1.86	8.06		1	WG983937
o-Xylene	95-47-6	106	0.200	0.867	0.609	2.64		1	WG983937
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		94.6				WG984027
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		121				WG983937

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	31.2	74.1	78.2	186		25	WG984027
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG983937
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG983937
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG983937
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG983937
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG983937
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG983937
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG983937
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG983937
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG983937
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG983937
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG983937
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG983937
Chloromethane	74-87-3	50.50	0.200	0.413	0.568	1.17		1	WG983937
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG983937
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG983937
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG983937
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG983937
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG983937
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG983937
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG983937
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG983937
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG983937
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG983937
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG983937
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG983937
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG983937
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG983937
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG983937
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG983937
Ethanol	64-17-5	46.10	15.8	29.8	882	1660		25	WG984027
Ethylbenzene	100-41-4	106	0.200	0.867	0.333	1.44		1	WG983937
4-Ethyltoluene	622-96-8	120	0.200	0.982	0.225	1.11		1	WG983937
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.216	1.21		1	WG983937
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.404	2.00		1	WG983937
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG983937
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG983937
Heptane	142-82-5	100	0.200	0.818	2.78	11.4		1	WG983937
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG983937
n-Hexane	110-54-3	86.20	0.200	0.705	ND	ND		1	WG983937
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG983937
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.328	1.14	B	1	WG983937
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG983937
2-Butanone (MEK)	78-93-3	72.10	31.2	92.0	106	313		25	WG984027
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG983937
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG983937
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG983937
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG983937
2-Propanol	67-63-0	60.10	31.2	76.7	982	2410		25	WG984027
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG983937
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG983937
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG983937
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG983937
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	0.227	0.670		1	WG983937
Toluene	108-88-3	92.10	0.200	0.753	2.21	8.31		1	WG983937
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG983937

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG983937
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG983937
Trichloroethylene	79-01-6	131	0.200	1.07	0.253	1.36		1	WG983937
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.436	2.14		1	WG983937
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG983937
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG983937
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG983937
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG983937
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG983937
m&p-Xylene	1330-20-7	106	0.400	1.73	1.07	4.65		1	WG983937
o-Xylene	95-47-6	106	0.200	0.867	0.343	1.49		1	WG983937
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.6				WG984027
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		112				WG983937

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



Collected date/time: 05/25/17 09:05

L912423

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	31.2	74.1	533	1270		25	WG984027
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG983937
Benzene	71-43-2	78.10	0.200	0.639	0.224	0.717		1	WG983937
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG983937
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG983937
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG983937
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG983937
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG983937
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG983937
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG983937
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG983937
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG983937
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG983937
Chloromethane	74-87-3	50.50	0.200	0.413	0.575	1.19		1	WG983937
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG983937
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG983937
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG983937
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG983937
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG983937
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG983937
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG983937
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG983937
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG983937
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG983937
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG983937
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	0.212	0.842		1	WG983937
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG983937
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG983937
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG983937
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG983937
Ethanol	64-17-5	46.10	15.8	29.8	3570	6740	E	25	WG984027
Ethylbenzene	100-41-4	106	0.200	0.867	0.354	1.54		1	WG983937
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG983937
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.221	1.24		1	WG983937
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.271	1.34		1	WG983937
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG983937
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG983937
Heptane	142-82-5	100	0.200	0.818	4.16	17.0		1	WG983937
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG983937
n-Hexane	110-54-3	86.20	0.200	0.705	ND	ND		1	WG983937
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG983937
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG983937
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG983937
2-Butanone (MEK)	78-93-3	72.10	31.2	92.0	698	2060		25	WG984027
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG983937
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG983937
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG983937
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG983937
2-Propanol	67-63-0	60.10	31.2	76.7	2330	5720	E	25	WG984027
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG983937
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG983937
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG983937
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG983937
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	1.08	3.19		1	WG983937
Toluene	108-88-3	92.10	0.200	0.753	0.618	2.33		1	WG983937
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG983937

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG983937
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG983937
Trichloroethylene	79-01-6	131	0.200	1.07	0.275	1.47		1	WG983937
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	1.22	5.98		1	WG983937
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.336	1.65		1	WG983937
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG983937
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG983937
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG983937
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG983937
m&p-Xylene	1330-20-7	106	0.400	1.73	1.20	5.21		1	WG983937
o-Xylene	95-47-6	106	0.200	0.867	0.370	1.60		1	WG983937
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.2				WG984027
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		117				WG983937

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Collected date/time: 05/25/17 09:25

L912423

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	31.2	74.1	478	1140		25	WG984274
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG984019
Benzene	71-43-2	78.10	0.200	0.639	0.249	0.796		1	WG984019
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG984019
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG984019
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG984019
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG984019
1,3-Butadiene	106-99-0	54.10	2.00	4.43	2.04	4.51		1	WG984019
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG984019
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG984019
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG984019
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG984019
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG984019
Chloromethane	74-87-3	50.50	0.200	0.413	0.583	1.21		1	WG984019
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG984019
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG984019
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG984019
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG984019
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG984019
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG984019
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG984019
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG984019
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG984019
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG984019
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG984019
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	0.459	1.82		1	WG984019
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG984019
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG984019
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG984019
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG984019
Ethanol	64-17-5	46.10	15.8	29.8	1850	3490	E	25	WG984274
Ethylbenzene	100-41-4	106	0.200	0.867	0.278	1.21		1	WG984019
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG984019
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.230	1.29		1	WG984019
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.291	1.44		1	WG984019
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG984019
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG984019
Heptane	142-82-5	100	0.200	0.818	2.43	9.93		1	WG984019
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG984019
n-Hexane	110-54-3	86.20	0.200	0.705	ND	ND		1	WG984019
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG984019
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG984019
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG984019
2-Butanone (MEK)	78-93-3	72.10	31.2	92.0	334	985		25	WG984274
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG984019
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG984019
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG984019
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG984019
2-Propanol	67-63-0	60.10	31.2	76.7	1580	3890	E	25	WG984274
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG984019
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG984019
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG984019
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG984019
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	0.935	2.76		1	WG984019
Toluene	108-88-3	92.10	0.200	0.753	0.508	1.91		1	WG984019
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG984019

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG984019
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG984019
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG984019
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	1.07	5.25		1	WG984019
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.334	1.64		1	WG984019
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG984019
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG984019
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG984019
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG984019
m&p-Xylene	1330-20-7	106	0.400	1.73	0.943	4.09		1	WG984019
o-Xylene	95-47-6	106	0.200	0.867	0.304	1.32		1	WG984019
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		100				WG984274
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		110				WG984019

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Collected date/time: 05/25/17 09:30

L912423

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	31.2	74.1	269	640		25	WG984274
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG984019
Benzene	71-43-2	78.10	0.200	0.639	0.346	1.11		1	WG984019
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG984019
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG984019
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG984019
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG984019
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG984019
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG984019
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG984019
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG984019
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG984019
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG984019
Chloromethane	74-87-3	50.50	0.200	0.413	0.648	1.34		1	WG984019
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG984019
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG984019
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG984019
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG984019
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG984019
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG984019
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG984019
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG984019
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG984019
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG984019
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG984019
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	0.372	1.47		1	WG984019
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG984019
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG984019
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG984019
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG984019
Ethanol	64-17-5	46.10	15.8	29.8	1650	3110	E	25	WG984274
Ethylbenzene	100-41-4	106	0.200	0.867	0.373	1.62		1	WG984019
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG984019
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.264	1.49		1	WG984019
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.345	1.71		1	WG984019
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG984019
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG984019
Heptane	142-82-5	100	0.200	0.818	5.22	21.3		1	WG984019
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG984019
n-Hexane	110-54-3	86.20	0.200	0.705	ND	ND		1	WG984019
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG984019
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.278	0.964	B	1	WG984019
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG984019
2-Butanone (MEK)	78-93-3	72.10	31.2	92.0	210	618		25	WG984274
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG984019
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG984019
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG984019
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG984019
2-Propanol	67-63-0	60.10	31.2	76.7	2490	6120	E	25	WG984274
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG984019
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG984019
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG984019
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG984019
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG984019
Toluene	108-88-3	92.10	0.200	0.753	1.33	5.00		1	WG984019
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG984019

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG984019
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG984019
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG984019
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	1.10	5.38		1	WG984019
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.297	1.46		1	WG984019
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG984019
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG984019
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG984019
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG984019
m&p-Xylene	1330-20-7	106	0.400	1.73	1.24	5.39		1	WG984019
o-Xylene	95-47-6	106	0.200	0.867	0.418	1.81		1	WG984019
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG984274
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		112				WG984019

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Collected date/time: 05/25/17 09:45

L912423

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	5.12	12.2		1	WG984019
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG984019
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG984019
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG984019
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG984019
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG984019
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG984019
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG984019
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG984019
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG984019
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG984019
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG984019
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG984019
Chloromethane	74-87-3	50.50	0.200	0.413	0.608	1.26		1	WG984019
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG984019
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG984019
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG984019
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG984019
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG984019
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG984019
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG984019
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG984019
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG984019
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG984019
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG984019
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG984019
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG984019
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG984019
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG984019
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG984019
Ethanol	64-17-5	46.10	0.630	1.19	26.5	49.9		1	WG984019
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG984019
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG984019
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.226	1.27		1	WG984019
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.368	1.82		1	WG984019
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG984019
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG984019
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG984019
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG984019
n-Hexane	110-54-3	86.20	0.200	0.705	ND	ND		1	WG984019
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG984019
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.301	1.05	B	1	WG984019
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG984019
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG984019
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG984019
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG984019
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG984019
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG984019
2-Propanol	67-63-0	60.10	1.25	3.07	4.22	10.4		1	WG984019
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG984019
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG984019
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG984019
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG984019
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG984019
Toluene	108-88-3	92.10	0.200	0.753	1.81	6.80		1	WG984019
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG984019

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc



Collected date/time: 05/25/17 09:45

L912423

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG984019
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG984019
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG984019
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG984019
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG984019
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG984019
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG984019
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG984019
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG984019
m&p-Xylene	1330-20-7	106	0.400	1.73	ND	ND		1	WG984019
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG984019
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		105				WG984019

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	31.2	74.1	113	269		25	WG984274
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG984019
Benzene	71-43-2	78.10	0.200	0.639	6.25	20.0		1	WG984019
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG984019
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG984019
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG984019
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG984019
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG984019
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG984019
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG984019
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG984019
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG984019
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG984019
Chloromethane	74-87-3	50.50	0.200	0.413	0.719	1.48		1	WG984019
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG984019
Cyclohexane	110-82-7	84.20	0.200	0.689	2.52	8.69		1	WG984019
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG984019
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG984019
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG984019
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG984019
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG984019
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG984019
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG984019
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG984019
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG984019
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG984019
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG984019
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG984019
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG984019
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG984019
Ethanol	64-17-5	46.10	15.8	29.8	1140	2140		25	WG984274
Ethylbenzene	100-41-4	106	0.200	0.867	6.08	26.4		1	WG984019
4-Ethyltoluene	622-96-8	120	0.200	0.982	4.11	20.2		1	WG984019
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.380	2.14		1	WG984019
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.308	1.52		1	WG984019
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG984019
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG984019
Heptane	142-82-5	100	0.200	0.818	22.8	93.3		1	WG984019
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG984019
n-Hexane	110-54-3	86.20	0.200	0.705	24.4	86.0		1	WG984019
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG984019
Methylene Chloride	75-09-2	84.90	0.200	0.694	1.21	4.20		1	WG984019
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG984019
2-Butanone (MEK)	78-93-3	72.10	31.2	92.0	90.1	266		25	WG984274
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG984019
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG984019
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG984019
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG984019
2-Propanol	67-63-0	60.10	31.2	76.7	1170	2880		25	WG984274
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG984019
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG984019
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG984019
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG984019
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	2.96	8.73		1	WG984019
Toluene	108-88-3	92.10	0.200	0.753	41.2	155		1	WG984019
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG984019

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 05/25/17 10:00

L912423

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG984019
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG984019
Trichloroethylene	79-01-6	131	0.200	1.07	0.982	5.26		1	WG984019
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	3.75	18.4		1	WG984019
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	1.10	5.39		1	WG984019
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	6.61	30.9		1	WG984019
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG984019
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG984019
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG984019
m&p-Xylene	1330-20-7	106	0.400	1.73	22.4	97.1		1	WG984019
o-Xylene	95-47-6	106	0.200	0.867	7.15	31.0		1	WG984019
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.6				WG984274
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		112				WG984019

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	12.5	29.7	174	413		10	WG984274
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG984019
Benzene	71-43-2	78.10	0.200	0.639	0.433	1.38		1	WG984019
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG984019
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG984019
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG984019
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG984019
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG984019
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG984019
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG984019
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG984019
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG984019
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG984019
Chloromethane	74-87-3	50.50	0.200	0.413	0.708	1.46		1	WG984019
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG984019
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG984019
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG984019
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG984019
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG984019
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG984019
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG984019
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG984019
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG984019
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG984019
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG984019
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG984019
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG984019
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG984019
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG984019
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG984019
Ethanol	64-17-5	46.10	6.30	11.9	1920	3630	E	10	WG984274
Ethylbenzene	100-41-4	106	0.200	0.867	0.823	3.57		1	WG984019
4-Ethyltoluene	622-96-8	120	0.200	0.982	1.13	5.56		1	WG984019
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.243	1.36		1	WG984019
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.375	1.85		1	WG984019
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG984019
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG984019
Heptane	142-82-5	100	0.200	0.818	17.0	69.4		1	WG984019
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG984019
n-Hexane	110-54-3	86.20	0.200	0.705	0.257	0.906		1	WG984019
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG984019
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.203	0.703	B	1	WG984019
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG984019
2-Butanone (MEK)	78-93-3	72.10	12.5	36.9	211	622		10	WG984274
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG984019
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG984019
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG984019
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG984019
2-Propanol	67-63-0	60.10	12.5	30.7	3990	9820	E	10	WG984274
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG984019
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG984019
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG984019
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG984019
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	4.03	11.9		1	WG984019
Toluene	108-88-3	92.10	0.200	0.753	2.34	8.82		1	WG984019
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG984019

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 05/25/17 10:05

L912423

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG984019
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG984019
Trichloroethylene	79-01-6	131	0.200	1.07	15.5	83.1		1	WG984019
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	2.11	10.4		1	WG984019
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.772	3.79		1	WG984019
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG984019
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG984019
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG984019
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG984019
m&p-Xylene	1330-20-7	106	0.400	1.73	3.06	13.3		1	WG984019
o-Xylene	95-47-6	106	0.200	0.867	1.11	4.81		1	WG984019
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		106				WG984274
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		120				WG984019

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc



Method Blank (MB)

(MB) R3221570-3 05/28/17 08:15

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Allyl Chloride	U		0.0546	0.200
Benzene	U		0.0460	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0436	0.200
Bromoform	U		0.0786	0.600
Bromomethane	U		0.0609	0.200
1,3-Butadiene	U		0.0563	2.00
Carbon disulfide	U		0.0544	0.200
Carbon tetrachloride	U		0.0585	0.200
Chlorobenzene	U		0.0601	0.200
Chloroethane	U		0.0489	0.200
Chloroform	U		0.0574	0.200
Chloromethane	U		0.0544	0.200
2-Chlorotoluene	U		0.0605	0.200
Cyclohexane	U		0.0534	0.200
Dibromochloromethane	U		0.0494	0.200
1,2-Dibromoethane	U		0.0185	0.200
1,2-Dichlorobenzene	U		0.0603	0.200
1,3-Dichlorobenzene	U		0.0597	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0616	0.200
1,1-Dichloroethane	U		0.0514	0.200
1,1-Dichloroethene	U		0.0490	0.200
cis-1,2-Dichloroethene	U		0.0389	0.200
trans-1,2-Dichloroethene	U		0.0464	0.200
1,2-Dichloropropane	U		0.0599	0.200
cis-1,3-Dichloropropene	U		0.0588	0.200
trans-1,3-Dichloropropene	U		0.0435	0.200
1,4-Dioxane	U		0.0554	0.200
Ethylbenzene	U		0.0506	0.200
4-Ethyltoluene	U		0.0666	0.200
Trichlorofluoromethane	U		0.0673	0.200
Dichlorodifluoromethane	U		0.0601	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0687	0.200
1,2-Dichlorotetrafluoroethane	U		0.0458	0.200
Heptane	U		0.0626	0.200
Hexachloro-1,3-butadiene	U		0.0656	0.630
n-Hexane	U		0.0457	0.200
Isopropylbenzene	U		0.0563	0.200
Methylene Chloride	0.0896	U	0.0465	0.200

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) R3221570-3 05/28/17 08:15

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methyl Butyl Ketone	U		0.0682	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0650	1.25
Methyl Methacrylate	U		0.0773	0.200
MTBE	U		0.0505	0.200
Naphthalene	U		0.154	0.630
Propene	U		0.0932	0.400
Styrene	U		0.0465	0.200
1,1,2,2-Tetrachloroethane	U		0.0576	0.200
Tetrachloroethylene	U		0.0497	0.200
Tetrahydrofuran	U		0.0508	0.200
Toluene	U		0.0499	0.200
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0665	0.200
1,1,2-Trichloroethane	U		0.0287	0.200
Trichloroethylene	U		0.0545	0.200
1,2,4-Trimethylbenzene	U		0.0483	0.200
1,3,5-Trimethylbenzene	U		0.0631	0.200
2,2,4-Trimethylpentane	U		0.0456	0.200
Vinyl chloride	U		0.0457	0.200
Vinyl Bromide	U		0.0727	0.200
Vinyl acetate	U		0.0639	0.200
m&p-Xylene	U		0.0946	0.400
o-Xylene	U		0.0633	0.200
(S) 1,4-Bromofluorobenzene	101			60.0-140

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3221570-1 05/28/17 06:35 • (LCSD) R3221570-2 05/28/17 07:24

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Propene	3.75	3.80	3.84	101	102	54.0-155			1.05	25
Dichlorodifluoromethane	3.75	3.71	3.69	98.9	98.5	69.0-143			0.370	25
1,2-Dichlorotetrafluoroethane	3.75	3.51	3.53	93.7	94.1	70.0-130			0.450	25
Chloromethane	3.75	3.73	3.75	99.3	100	70.0-130			0.630	25
Vinyl chloride	3.75	3.51	3.52	93.6	93.8	70.0-130			0.160	25
1,3-Butadiene	3.75	3.91	3.92	104	105	70.0-130			0.220	25
Bromomethane	3.75	3.08	2.95	82.1	78.7	70.0-130			4.22	25
Chloroethane	3.75	3.37	3.15	89.8	84.0	70.0-130			6.58	25
Trichlorofluoromethane	3.75	3.46	3.35	92.3	89.3	70.0-130			3.29	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3221570-1 05/28/17 06:35 • (LCSD) R3221570-2 05/28/17 07:24

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,1,2-Trichlorotrifluoroethane	3.75	3.33	3.26	88.8	86.8	70.0-130			2.23	25
1,1-Dichloroethene	3.75	3.60	3.59	96.1	95.7	70.0-130			0.370	25
1,1-Dichloroethane	3.75	3.63	3.60	96.8	96.0	70.0-130			0.890	25
Carbon disulfide	3.75	3.47	3.47	92.6	92.5	70.0-130			0.100	25
Methylene Chloride	3.75	3.68	3.66	98.3	97.7	70.0-130			0.570	25
MTBE	3.75	3.52	3.51	93.8	93.5	70.0-130			0.290	25
trans-1,2-Dichloroethene	3.75	3.43	3.36	91.4	89.7	70.0-130			1.95	25
n-Hexane	3.75	3.65	3.65	97.3	97.2	70.0-130			0.110	25
Vinyl acetate	3.75	3.90	3.91	104	104	70.0-130			0.260	25
cis-1,2-Dichloroethene	3.75	3.65	3.67	97.5	97.9	70.0-130			0.500	25
Chloroform	3.75	3.53	3.51	94.1	93.6	70.0-130			0.570	25
Cyclohexane	3.75	3.43	3.40	91.6	90.6	70.0-130			1.10	25
1,1,1-Trichloroethane	3.75	3.56	3.51	94.9	93.6	70.0-130			1.36	25
Carbon tetrachloride	3.75	3.48	3.45	92.7	92.0	70.0-130			0.830	25
Benzene	3.75	3.17	3.18	84.6	84.8	70.0-130			0.210	25
1,2-Dichloroethane	3.75	3.41	3.43	90.8	91.5	70.0-130			0.720	25
Heptane	3.75	3.50	3.57	93.4	95.1	70.0-130			1.84	25
Trichloroethylene	3.75	3.11	3.15	82.9	83.9	70.0-130			1.18	25
1,2-Dichloropropane	3.75	3.22	3.25	85.9	86.7	70.0-130			0.870	25
1,4-Dioxane	3.75	3.35	3.31	89.5	88.1	70.0-152			1.47	25
Bromodichloromethane	3.75	3.26	3.29	87.0	87.7	70.0-130			0.880	25
cis-1,3-Dichloropropene	3.75	3.26	3.26	87.0	87.0	70.0-130			0.000	25
4-Methyl-2-pentanone (MIBK)	3.75	3.60	3.64	95.9	97.1	70.0-142			1.21	25
Toluene	3.75	3.14	3.15	83.8	84.0	70.0-130			0.320	25
trans-1,3-Dichloropropene	3.75	3.30	3.33	88.0	88.7	70.0-130			0.760	25
1,1,2-Trichloroethane	3.75	3.13	3.11	83.4	83.0	70.0-130			0.470	25
Tetrachloroethylene	3.75	2.95	2.93	78.8	78.2	70.0-130			0.740	25
Methyl Butyl Ketone	3.75	3.68	3.69	98.1	98.3	70.0-150			0.220	25
Dibromochloromethane	3.75	3.07	3.05	81.8	81.4	70.0-130			0.400	25
1,2-Dibromoethane	3.75	3.07	3.08	81.8	82.2	70.0-130			0.480	25
Chlorobenzene	3.75	3.01	2.98	80.3	79.4	70.0-130			1.11	25
Ethylbenzene	3.75	3.35	3.32	89.4	88.7	70.0-130			0.870	25
m&p-Xylene	7.50	6.55	6.44	87.4	85.9	70.0-130			1.71	25
o-Xylene	3.75	3.27	3.22	87.1	85.9	70.0-130			1.46	25
Styrene	3.75	3.33	3.31	88.9	88.2	70.0-130			0.790	25
Bromoform	3.75	3.33	3.28	88.8	87.5	70.0-130			1.47	25
1,1,2,2-Tetrachloroethane	3.75	3.24	3.20	86.3	85.2	70.0-130			1.24	25
4-Ethyltoluene	3.75	3.09	3.05	82.5	81.2	70.0-130			1.50	25
1,3,5-Trimethylbenzene	3.75	3.11	3.06	82.9	81.5	70.0-130			1.66	25
1,2,4-Trimethylbenzene	3.75	3.14	3.12	83.8	83.3	70.0-130			0.600	25

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3221570-1 05/28/17 06:35 • (LCSD) R3221570-2 05/28/17 07:24

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,3-Dichlorobenzene	3.75	3.17	3.09	84.4	82.3	70.0-130			2.53	25
1,4-Dichlorobenzene	3.75	3.18	3.04	84.7	81.1	70.0-130			4.35	25
Benzyl Chloride	3.75	3.43	3.38	91.6	90.0	70.0-144			1.73	25
1,2-Dichlorobenzene	3.75	2.99	2.88	79.8	76.8	70.0-130			3.91	25
1,2,4-Trichlorobenzene	3.75	3.47	3.39	92.6	90.5	70.0-155			2.31	25
Hexachloro-1,3-butadiene	3.75	3.14	3.11	83.8	82.9	70.0-145			1.07	25
Naphthalene	3.75	4.02	3.83	107	102	70.0-155			4.90	25
Allyl Chloride	3.75	3.80	3.83	101	102	70.0-130			0.750	25
2-Chlorotoluene	3.75	3.27	2.98	87.1	79.5	70.0-130			9.21	25
Methyl Methacrylate	3.75	3.29	3.29	87.8	87.8	70.0-130			0.0400	25
Tetrahydrofuran	3.75	3.79	3.80	101	101	70.0-140			0.400	25
2,2,4-Trimethylpentane	3.75	3.71	3.70	99.1	98.8	70.0-130			0.310	25
Vinyl Bromide	3.75	3.25	3.12	86.7	83.1	70.0-130			4.26	25
Isopropylbenzene	3.75	3.12	3.04	83.1	81.2	70.0-130			2.34	25
(S) 1,4-Bromofluorobenzene				107	106	60.0-140				

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3221832-3 05/29/17 07:33

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.0569	1.25
Allyl Chloride	U		0.0546	0.200
Benzene	U		0.0460	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0436	0.200
Bromoform	U		0.0786	0.600
Bromomethane	U		0.0609	0.200
1,3-Butadiene	U		0.0563	2.00
Carbon disulfide	U		0.0544	0.200
Carbon tetrachloride	U		0.0585	0.200
Chlorobenzene	U		0.0601	0.200
Chloroethane	U		0.0489	0.200
Chloroform	U		0.0574	0.200
Chloromethane	U		0.0544	0.200
2-Chlorotoluene	U		0.0605	0.200
Cyclohexane	U		0.0534	0.200
Dibromochloromethane	U		0.0494	0.200
1,2-Dibromoethane	U		0.0185	0.200
1,2-Dichlorobenzene	U		0.0603	0.200
1,3-Dichlorobenzene	U		0.0597	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0616	0.200
1,1-Dichloroethane	U		0.0514	0.200
1,1-Dichloroethene	U		0.0490	0.200
cis-1,2-Dichloroethene	U		0.0389	0.200
trans-1,2-Dichloroethene	U		0.0464	0.200
1,2-Dichloropropane	U		0.0599	0.200
cis-1,3-Dichloropropene	U		0.0588	0.200
trans-1,3-Dichloropropene	U		0.0435	0.200
1,4-Dioxane	U		0.0554	0.200
Ethylbenzene	U		0.0506	0.200
4-Ethyltoluene	U		0.0666	0.200
Trichlorofluoromethane	U		0.0673	0.200
Dichlorodifluoromethane	U		0.0601	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0687	0.200
1,2-Dichlorotetrafluoroethane	U		0.0458	0.200
Heptane	U		0.0626	0.200
Hexachloro-1,3-butadiene	U		0.0656	0.630
n-Hexane	U		0.0457	0.200
Isopropylbenzene	U		0.0563	0.200

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3221832-3 05/29/17 07:33

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methylene Chloride	0.0865	J	0.0465	0.200
Methyl Butyl Ketone	U		0.0682	1.25
2-Butanone (MEK)	U		0.0493	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0650	1.25
Methyl Methacrylate	U		0.0773	0.200
MTBE	U		0.0505	0.200
Naphthalene	U		0.154	0.630
2-Propanol	U		0.0882	1.25
Propene	U		0.0932	0.400
Styrene	U		0.0465	0.200
1,1,2,2-Tetrachloroethane	U		0.0576	0.200
Tetrachloroethylene	U		0.0497	0.200
Tetrahydrofuran	U		0.0508	0.200
Toluene	U		0.0499	0.200
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0665	0.200
1,1,2-Trichloroethane	U		0.0287	0.200
Trichloroethylene	U		0.0545	0.200
1,2,4-Trimethylbenzene	U		0.0483	0.200
1,3,5-Trimethylbenzene	U		0.0631	0.200
2,2,4-Trimethylpentane	U		0.0456	0.200
Vinyl chloride	U		0.0457	0.200
Vinyl Bromide	U		0.0727	0.200
Vinyl acetate	U		0.0639	0.200
m&p-Xylene	U		0.0946	0.400
o-Xylene	U		0.0633	0.200
Ethanol	U		0.0832	0.630
(S) 1,4-Bromofluorobenzene	105			60.0-140

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3221832-1 05/29/17 05:56 • (LCSD) R3221832-2 05/29/17 06:44

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethanol	3.75	3.99	3.98	106	106	52.0-158			0.330	25
Propene	3.75	3.73	3.82	99.5	102	54.0-155			2.48	25
Dichlorodifluoromethane	3.75	3.69	3.72	98.3	99.1	69.0-143			0.790	25
1,2-Dichlorotetrafluoroethane	3.75	3.56	3.64	94.9	97.1	70.0-130			2.30	25
Chloromethane	3.75	3.66	3.74	97.6	99.7	70.0-130			2.10	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3221832-1 05/29/17 05:56 • (LCSD) R3221832-2 05/29/17 06:44

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Vinyl chloride	3.75	3.60	3.67	95.9	97.7	70.0-130			1.92	25
1,3-Butadiene	3.75	3.90	3.97	104	106	70.0-130			1.61	25
Bromomethane	3.75	3.36	3.38	89.6	90.1	70.0-130			0.570	25
Chloroethane	3.75	3.50	3.53	93.3	94.2	70.0-130			0.950	25
Trichlorofluoromethane	3.75	3.54	3.57	94.4	95.3	70.0-130			0.860	25
1,1,2-Trichlorotrifluoroethane	3.75	3.48	3.50	92.8	93.4	70.0-130			0.720	25
1,1-Dichloroethene	3.75	3.69	3.72	98.4	99.1	70.0-130			0.650	25
1,1-Dichloroethane	3.75	3.69	3.72	98.5	99.3	70.0-130			0.860	25
Acetone	3.75	3.78	3.87	101	103	70.0-130			2.25	25
2-Propanol	3.75	3.76	3.81	100	101	66.0-150			1.08	25
Carbon disulfide	3.75	3.60	3.62	96.0	96.6	70.0-130			0.560	25
Methylene Chloride	3.75	3.73	3.78	99.4	101	70.0-130			1.26	25
MTBE	3.75	3.61	3.63	96.3	96.8	70.0-130			0.430	25
trans-1,2-Dichloroethene	3.75	3.50	3.52	93.2	93.9	70.0-130			0.720	25
n-Hexane	3.75	3.70	3.75	98.6	99.9	70.0-130			1.35	25
Vinyl acetate	3.75	3.94	3.99	105	106	70.0-130			1.46	25
Methyl Ethyl Ketone	3.75	3.68	3.76	98.1	100	70.0-130			2.10	25
cis-1,2-Dichloroethene	3.75	3.74	3.78	99.6	101	70.0-130			1.14	25
Chloroform	3.75	3.63	3.67	96.7	98.0	70.0-130			1.26	25
Cyclohexane	3.75	3.56	3.63	95.0	96.9	70.0-130			1.95	25
1,1,1-Trichloroethane	3.75	3.61	3.68	96.2	98.1	70.0-130			2.04	25
Carbon tetrachloride	3.75	3.56	3.61	94.9	96.3	70.0-130			1.44	25
Benzene	3.75	3.27	3.33	87.2	88.9	70.0-130			1.87	25
1,2-Dichloroethane	3.75	3.43	3.51	91.5	93.7	70.0-130			2.35	25
Heptane	3.75	3.51	3.61	93.7	96.4	70.0-130			2.81	25
Trichloroethylene	3.75	3.24	3.31	86.5	88.1	70.0-130			1.87	25
1,2-Dichloropropane	3.75	3.31	3.38	88.2	90.1	70.0-130			2.10	25
1,4-Dioxane	3.75	3.46	3.54	92.3	94.5	70.0-152			2.35	25
Bromodichloromethane	3.75	3.34	3.38	89.1	90.3	70.0-130			1.26	25
cis-1,3-Dichloropropene	3.75	3.37	3.44	90.0	91.8	70.0-130			2.00	25
4-Methyl-2-pentanone (MIBK)	3.75	3.62	3.71	96.6	98.9	70.0-142			2.37	25
Toluene	3.75	3.26	3.31	86.9	88.4	70.0-130			1.69	25
trans-1,3-Dichloropropene	3.75	3.42	3.48	91.1	92.9	70.0-130			1.98	25
1,1,2-Trichloroethane	3.75	3.21	3.27	85.7	87.3	70.0-130			1.80	25
Tetrachloroethylene	3.75	3.06	3.17	81.7	84.4	70.0-130			3.31	25
Methyl Butyl Ketone	3.75	3.67	3.78	97.8	101	70.0-150			3.05	25
Dibromochloromethane	3.75	3.16	3.24	84.3	86.5	70.0-130			2.58	25
1,2-Dibromoethane	3.75	3.20	3.27	85.4	87.2	70.0-130			2.03	25
Chlorobenzene	3.75	3.12	3.20	83.3	85.2	70.0-130			2.32	25
Ethylbenzene	3.75	3.48	3.50	92.7	93.4	70.0-130			0.780	25

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3221832-1 05/29/17 05:56 • (LCSD) R3221832-2 05/29/17 06:44

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
m&p-Xylene	7.50	6.73	6.83	89.8	91.1	70.0-130			1.48	25
o-Xylene	3.75	3.38	3.41	90.2	91.0	70.0-130			0.800	25
Styrene	3.75	3.44	3.51	91.8	93.6	70.0-130			1.99	25
Bromoform	3.75	3.43	3.50	91.4	93.4	70.0-130			2.21	25
1,1,2,2-Tetrachloroethane	3.75	3.34	3.38	89.0	90.0	70.0-130			1.18	25
4-Ethyltoluene	3.75	3.18	3.24	84.9	86.5	70.0-130			1.88	25
1,3,5-Trimethylbenzene	3.75	3.23	3.25	86.0	86.7	70.0-130			0.780	25
1,2,4-Trimethylbenzene	3.75	3.24	3.31	86.3	88.3	70.0-130			2.30	25
1,3-Dichlorobenzene	3.75	3.25	3.34	86.6	89.1	70.0-130			2.88	25
1,4-Dichlorobenzene	3.75	3.25	3.29	86.7	87.7	70.0-130			1.17	25
Benzyl Chloride	3.75	3.58	3.65	95.3	97.4	70.0-144			2.18	25
1,2-Dichlorobenzene	3.75	3.05	3.09	81.4	82.5	70.0-130			1.28	25
1,2,4-Trichlorobenzene	3.75	3.70	3.78	98.6	101	70.0-155			2.25	25
Hexachloro-1,3-butadiene	3.75	3.18	3.23	84.9	86.3	70.0-145			1.55	25
Naphthalene	3.75	4.17	4.31	111	115	70.0-155			3.31	25
Allyl Chloride	3.75	3.86	3.91	103	104	70.0-130			1.14	25
2-Chlorotoluene	3.75	3.11	3.16	82.8	84.3	70.0-130			1.79	25
Methyl Methacrylate	3.75	3.34	3.43	89.0	91.5	70.0-130			2.80	25
Tetrahydrofuran	3.75	3.80	3.88	101	103	70.0-140			2.12	25
2,2,4-Trimethylpentane	3.75	3.77	3.81	100	102	70.0-130			1.18	25
Vinyl Bromide	3.75	3.44	3.47	91.7	92.5	70.0-130			0.890	25
Isopropylbenzene	3.75	3.19	3.25	85.1	86.7	70.0-130			1.76	25
(S) 1,4-Bromofluorobenzene				107	107	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3221679-3 05/29/17 07:25

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Acetone	U		0.0569	1.25
2-Butanone (MEK)	U		0.0493	1.25
2-Propanol	U		0.0882	1.25
Ethanol	U		0.0832	0.630
(S) 1,4-Bromofluorobenzene	97.3			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3221679-1 05/29/17 05:55 • (LCSD) R3221679-2 05/29/17 06:39

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Ethanol	3.75	3.86	3.82	103	102	52.0-158			1.04	25
Acetone	3.75	4.65	4.57	124	122	70.0-130			1.85	25
2-Propanol	3.75	4.39	4.41	117	118	66.0-150			0.520	25
Methyl Ethyl Ketone	3.75	4.44	4.43	119	118	70.0-130			0.390	25
(S) 1,4-Bromofluorobenzene				101	101	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3221903-3 05/30/17 10:39

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Acetone	U		0.0569	1.25
2-Butanone (MEK)	U		0.0493	1.25
2-Propanol	U		0.0882	1.25
Ethanol	U		0.0832	0.630
(S) 1,4-Bromofluorobenzene	97.3			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3221903-1 05/30/17 09:11 • (LCSD) R3221903-2 05/30/17 09:55

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Ethanol	3.75	3.63	3.98	96.8	106	52.0-158			9.14	25
Acetone	3.75	3.98	4.12	106	110	70.0-130			3.60	25
2-Propanol	3.75	3.95	4.25	105	113	66.0-150			7.40	25
Methyl Ethyl Ketone	3.75	4.23	4.24	113	113	70.0-130			0.340	25
(S) 1,4-Bromofluorobenzene				98.1	98.2	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier Description

B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

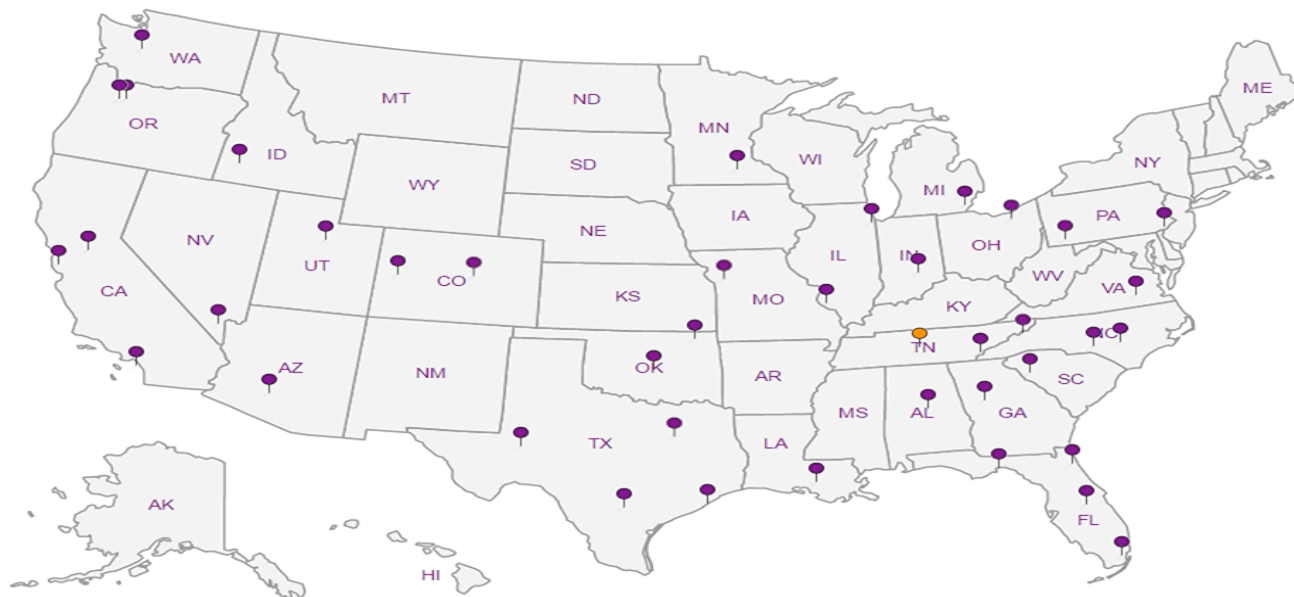
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



First Environment, Inc.

91 Fulton Street
Boonton, NJ 07005

Report to:
Michael T. Slack

Project
Description: Butler Snow LLP

Phone: 973-334-0003
Fax: 973-334-0928

Collected by (print):
MICHAEL SLACK (FE)

Collected by (signature):

Immediately
Packed on Ice N ☒ Y ☐

Billing Information: 002D

Project: EnPro 001-

91 Fulton Street
Boonton, NJ 07005

ATTN: JUSTIN PICCOLO
JPICCOLO@FIRSTENVIRONMENT.COM

Email To: mslack@firstenvironment.com

City/State WATER VALLEY, MS
Collected: BOB WARNER PLANT

Lab Project #
FIRENVBNJ-OXFORDMS

P.O. #

Quote #

Rush? (Lab MUST Be Notified)

Same Day Five Day
Next Day 5 Day (Rad Only)
Two Day 10 Day (Rad Only)
Three Day

Date Results Needed

No. of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
IA-6	COMP	AIR	—	5/25/17	0715	1
IA-17	COMP	AIR	—	5/25/17	0730	1
IA-1	COMP	AIR	—	5/25/17	0740	1
IA-K13	COMP	AIR	—	5/25/17	0755	1
IA-B12	COMP	AIR	—	5/25/17	0810	1
IA-G13	COMP	AIR	—	5/25/17	0815	1
IA-C16	COMP	AIR	—	5/25/17	0825	1
IA-2	COMP	AIR	—	5/25/17	0845	1
IA-L16	COMP	AIR	—	5/25/17	0855	1
IA-K8	COMP	AIR	—	5/25/17	0905	1

* Matrix:
SS - Soil ☒ AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: 8 6l cans, 8 24 hour flow controllers, 8 4 feet sections of teflon tubing with swagelok fittings,

SEE FIELD TABLE FOR END TIMES AND PRESSURE READINGS - M. SLACK

Samples returned via:
☒ UPS ☒ FedEx ☐ Courier

Tracking # 7305 4950 4731

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Trip Blank Received: Yes / No

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C Bottles Received:

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: Time:

Hold:

Condition:

NCF ☒ OK

Analysis / Container / Preservative

Chain of Custody Page of



YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



L# 912Y23
G224

Acctnum: FIRENVBNJ

Template: T120396

Prelogin: P601941

TSR: 341 - John Hawkins

PB: LL 5/19

Shipped Via: FedEx Ground

Remarks Sample # (lab only)

TRAINING	61
CAFETERIA	62
MAINT	63
K13	64
B12	65
G13	66
C16	67
ATS	68
L16	69
K8	70

Sample Receipt Checklist

COC Seal Present/Intact: ☒ Y ☐ N
COC Signed/Accurate: ☒ Y ☐ N
Bottles arrive intact: ☒ Y ☐ N
Correct bottles used: ☒ Y ☐ N
Sufficient volume sent: ☒ Y ☐ N
If Applicable
VOA Zero Headspace: ☒ Y ☐ N
Preservation Correct/Checked: ☒ Y ☐ N

if preservation required by Login: Date/Time

Vapor Intrusion Investigation
Borg Warner Facility
Water Valley, Yalobusha Co., MS
24-Hr. Indoor Air Monitoring
May 25-27, 2017

Sample ID	Sample Location	Flow Controller ID	Canister ID	Canister Size (liters)	Initial Date/time	Vacuum	Final Date/time	Hg Vacuum	Sampler
IA-6	TRAINING ROOM	007771	007910	6	5/25/17 0715	30	5/26/17 0715	0 0705	M. SLACK (FE)
IA-17	CAFETERIA	006721	005078	6	5/25/17 0730	17	5/26/17 0710	0710 "0" TIME	M. SLACK
IA-1	MAINTENANCE ROOM	007760	007959	6	5/25/17 0740	27	5/26/17 0715	0	M. SLACK
IA-K13	I-BEAM K13	007063	005415	6	5/25/17 0755	30	5/26/17 0800	12	M. SLACK
IA-B12	I-BEAM B12	007103	007968	6	5/25/17 0810	30	5/26/17 0810	8	M. SLACK
IA-G13	I-BEAM G13	006508	007206	6	5/25/17 0815	27	5/26/17 0820	9	M. SLACK
IA-C16	I-BEAM C16	006699	007307	6	5/25/17 0825	29	5/26/17 0735	0	M. SLACK
IA-2	ATS ROOM	005880	006630	6	5/25/17 0845	30	5/26/17 0845	17	M. SLACK
IA-L16	I-BEAM L16	007064	007971	6	5/25/17 0855	20	5/26/17 0855	2	M. SLACK
IA-K8	I-BEAM K8	006695	005148	6	5/25/17 0905	30	5/26/17 0750	0	M. SLACK
IA-G4	I-BEAM G4	006043	007946	6	5/25/17 0925	30	5/26/17 0755	0	M. SLACK
IA-D5	I-BEAM D5	007761	007958	6	5/25/17 0930	26	5/26/17 0930	7	M. SLACK
AA-2	AMBIENT AIR - PAVILLION	006700	007972	6	5/25/17 0945	27	5/26/17 0945	5	M. SLACK
IA-SUMP	SUMP AREA - MAINT. ROOM (ADJ)	007438	006310	6	5/25/17 1000	10	5/26/17 0825	0	M. SLACK

IA-SUMP DUP	SUMP AREA - MAINTENANCE ROOM (ADJACENT)	006359	006284	6	5/25/17 1005	25	5/26/17 1005	13	M. SLACK
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