

September 12, 2022

MEMORANDUM

To: Karen Hays, Air Branch Chief *KH*

Through: James Boylan, Assistant Branch Chief

From: DeAnna Oser, Ambient Monitoring Program Manager

RE: South DeKalb August 20- September 25, 2021 Sampling Results for Ethylene Oxide

Samples of Ethylene Oxide (EtO) were taken at our South DeKalb monitoring station during the period of August 20- September 25, 2021. Samples were also collected on a pressurized system (ATEC system) at our South DeKalb for comparison purposes. This comparison is part of the Community Scales Air Toxics Monitoring Grant awarded to Georgia EPD by EPA for evaluating new technologies for ethylene oxide measurement. Each of the samples were sent to Eastern Research Group (ERG) for analysis. The Qualifier code of "LK" was given by ERG to indicate that the sample may be biased high. The Qualifier code of "2" was given to samples to indicate that the collection deviated from established procedures, but the integrity of the sample was not compromised. The Qualifier codes of "1" and "6" were added to data because the pressurized system samplers used for collection had not been verified against an ethylene oxide standard prior to sampling. Please see above for qualifier explanations. Please note that ERG is now providing values for levels below the detection limit.

Location	Date	Qualifier	EtO Concentration (ug/m ³)
South DeKalb passive	08/20/2021	LK, 2	0.67
South DeKalb passive	08/26/2021	2	0.15
South DeKalb passive	09/01/2021	LK, 2	0.22
South DeKalb passive QA	09/01/2021	LK	0.44
South DeKalb passive	09/07/2021	2	0.13
South DeKalb passive	09/13/2021		0.17
South DeKalb passive	09/19/2021	2	1.69
South DeKalb passive	09/25/2021	LK, 2	0.47
South DeKalb ATEC	08/20/2021	1, 6	0.29
South DeKalb ATEC	08/26/2021	1, 6, 2	0.23
South DeKalb ATEC	09/01/2021	1, 6, 2	0.12
South DeKalb ATEC	09/07/2021	1, 6	0.18
South DeKalb ATEC QA	09/07/2021	1, 6, 2	0.11
South DeKalb ATEC	09/13/2021	1, 6, 2	0.16

South DeKalb ATEC		09/19/2021		1, 6		0.39
South DeKalb ATEC		09/22/2021		1, 6		0.25
South DeKalb ATEC		09/25/2021		1, 6, LK		0.21

If you have any questions, please let me know.

DGO/do



Eastern Research Group
601 Keystone Park Drive
Suite 700
Morrisville, NC 27560

October 29, 2021

Ms. Jaime Gore
GA Ambient Monitoring Program
4244 International Pkwy, Suite 120
Atlanta, GA 30354
Project Name: GA EtO

Dear Ms. Jaime Gore,

This report contains the analytical results for the sample(s) received under chain(s) of custody by Eastern Research Group on 08/27/21 11:35 through 09/30/21 12:07.

Values below the MDL for QC results in this report are recorded as ND, however the actual values are reported in the accompanying Excel report with a "U" flag (Under the detection limit). The actual values are reported in AQS.

This test is accredited under the 2016 TNI Standard for Environmental Laboratories (FL DOH Certification # E87673). All analyses were performed as described in the US EPA-approved QAPP, under the contract for UATMP, NATTS, CSATAM, PAMS and NMOC support (US EPA Contract No. EP-D-14-030). This cover page is an integral part of this report, and any exceptions or comments are noted on the last page.

Release of the data contained in this data package and in the data submitted in the electronic data deliverable, has been authorized by the Program Manager, or the Program Manager's designee as verified by the following signature.

The issuance of the final Certificate of Analysis takes precedence over any previous Report. If you have any questions, please contact me at 919-468-7924.

Sincerely,

Julie Swift
Program Manager
julie.swift@erg.com

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 4

4244 International Pkwy, Suite 120

Atlanta, GA 30354

ATTN: Ms. Jaime Gore

PHONE: (404) 362-4912 FAX: (919) 541-0516

FILE #: 4022.00

REPORTED: 10/29/21 14:27

SUBMITTED: 08/27/21 to 09/30/21

AQS SITE CODE:

SITE CODE: GA EtO

ANALYTICAL REPORT FOR SAMPLES

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	<u>Sampled</u>	<u>Received</u>
South Dekalb	1082708-01	Air	08/20/21 23:59	08/27/21 11:35
South Dekalb-Atec	1082708-02	Air	08/20/21 23:59	08/27/21 11:35
South Dekalb-Atec	1090937-01	Air	08/26/21 23:59	09/09/21 12:03
South Dekalb-Atec	1090937-02	Air	09/01/21 23:59	09/09/21 12:03
South Dekalb	1090937-03	Air	08/26/21 23:59	09/09/21 12:03
South Dekalb	1090937-04	Air	09/01/21 23:59	09/09/21 12:03
South Dekalb QA	1090937-05	Air	09/01/21 23:59	09/09/21 12:03
South Dekalb-Atec QA	1091311-01	Air	09/07/21 23:59	09/13/21 11:23
South Dekalb	1091311-02	Air	09/07/21 23:59	09/13/21 11:23
South Dekalb-Atec	1091311-03	Air	09/07/21 23:59	09/13/21 11:23
South Dekalb	1092020-01	Air	09/13/21 23:59	09/20/21 10:49
South Dekalb ATEC	1092020-02	Air	09/13/21 23:59	09/20/21 10:49
South Dekalb	1092308-01	Air	09/19/21 23:59	09/23/21 11:09
South Dekalb ATEC	1092308-02	Air	09/19/21 23:59	09/23/21 11:09
South Dekalb	1092940-01	Air	09/25/21 23:59	09/29/21 14:30
South Dekalb ATEC	1092940-02	Air	09/22/21 23:59	09/29/21 14:30
South Dekalb ATEC	1093009-01	Air	09/25/21 23:59	09/30/21 12:07



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FILE #: 4022.00

REPORTED: 10/29/21 14:27

SUBMITTED: 08/27/21 to 09/30/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 1082708-01

Sampled: 08/20/21 23:59

Pressure @ Receipt: 7.50" Hg

Canister #: A21051

Received: 08/27/21 11:35

Comments:

Analyzed: 09/03/21 04:49

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.370	0.67	LK	0.0261



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FILE #: 4022.00

REPORTED: 10/29/21 14:27

SUBMITTED: 08/27/21 to 09/30/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb-Atec

Lab ID: 1082708-02

Sampled: 08/20/21 23:59

Pressure @ Receipt: 10.25 psig

Canister #: 35134

Received: 08/27/21 11:35

Comments:

Analyzed: 09/03/21 07:52

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.158	0.29		0.0261



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PHONE: (404) 362-4912 FAX: (919) 541-0516

FILE #: 4022.00

REPORTED: 10/29/21 14:27

SUBMITTED: 08/27/21 to 09/30/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb-Atec

Lab ID: 1090937-01

Sampled: 08/26/21 23:59

Pressure @ Receipt: 10.00 psig

Canister #: 0044

Received: 09/09/21 12:03

Comments:

Analyzed: 09/16/21 07:05

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.128	0.23		0.0261



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FILE #: 4022.00

REPORTED: 10/29/21 14:27

SUBMITTED: 08/27/21 to 09/30/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb-Atec

Lab ID: 1090937-02

Sampled: 09/01/21 23:59

Pressure @ Receipt: 10.50 psig

Canister #: 111211

Received: 09/09/21 12:03

Comments:

Analyzed: 09/21/21 21:20

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0668	0.12		0.0261



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FILE #: 4022.00

REPORTED: 10/29/21 14:27

SUBMITTED: 08/27/21 to 09/30/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 1090937-03

Sampled: 08/26/21 23:59

Pressure @ Receipt: 7.50" Hg

Canister #: 110308

Received: 09/09/21 12:03

Comments:

Analyzed: 09/16/21 08:06

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0824	0.15		0.0261



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PHONE: (404) 362-4912 FAX: (919) 541-0516

FILE #: 4022.00

REPORTED: 10/29/21 14:27

SUBMITTED: 08/27/21 to 09/30/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 1090937-04

Sampled: 09/01/21 23:59

Pressure @ Receipt: 6.50" Hg

Canister #: A21072

Received: 09/09/21 12:03

Comments:

Analyzed: 09/21/21 22:21

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.122	0.22	LK	0.0261



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FILE #: 4022.00

REPORTED: 10/29/21 14:27

SUBMITTED: 08/27/21 to 09/30/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb QA

Lab ID: 1090937-05

Sampled: 09/01/21 23:59

Pressure @ Receipt: 6.00" Hg

Canister #: A21081

Received: 09/09/21 12:03

Comments:

Analyzed: 09/22/21 00:23

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.246	0.44	LK	0.0261



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Atlanta, GA 30354

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FILE #: 4022.00

REPORTED: 10/29/21 14:27

SUBMITTED: 08/27/21 to 09/30/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb-Atec QA

Lab ID: 1091311-01

Sampled: 09/07/21 23:59

Pressure @ Receipt: 10.00 psig

Canister #: 114366

Received: 09/13/21 11:23

Comments:

Analyzed: 09/22/21 06:29

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0588	0.11		0.0261



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FILE #: 4022.00

REPORTED: 10/29/21 14:27

SUBMITTED: 08/27/21 to 09/30/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 1091311-02

Sampled: 09/07/21 23:59

Pressure @ Receipt: 7.50" Hg

Canister #: 9570

Received: 09/13/21 11:23

Comments:

Analyzed: 09/22/21 08:31

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0732	0.13		0.0261



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 4244 International Pkwy, Suite 120
 Atlanta, GA 30354
 ATTN: Ms. Jaime Gore
 PHONE: (404) 362-4912 FAX: (919) 541-0516

FILE #: 4022.00
 REPORTED: 10/29/21 14:27
 SUBMITTED: 08/27/21 to 09/30/21
 AQS SITE CODE:
 SITE CODE: GA EtO

Description: South Dekalb-Atec **Lab ID:** 1091311-03 **Sampled:** 09/07/21 23:59
Pressure @ Receipt: 10.25 psig **Canister #:** 110305 **Received:** 09/13/21 11:23
Comments: **Analyzed:** 09/22/21 09:32

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0974	0.18		0.0261



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FILE #: 4022.00

REPORTED: 10/29/21 14:27

SUBMITTED: 08/27/21 to 09/30/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 1092020-01

Sampled: 09/13/21 23:59

Pressure @ Receipt: 5.50" Hg

Canister #: 114322

Received: 09/20/21 10:49

Comments:

Analyzed: 10/05/21 19:28

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0921	0.17		0.0261



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ATTN: Ms. Jaime Gore

PHONE: (404) 362-4912 FAX: (919) 541-0516

FILE #: 4022.00

REPORTED: 10/29/21 14:27

SUBMITTED: 08/27/21 to 09/30/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb ATEC

Lab ID: 1092020-02

Sampled: 09/13/21 23:59

Pressure @ Receipt: 10.0 psi

Canister #: 114348

Received: 09/20/21 10:49

Comments: Dup 2

Analyzed: 10/05/21 20:29

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0893	0.16		0.0261



CERTIFICATE OF ANALYSIS

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4244 International Pkwy, Suite 120

Atlanta, GA 30354

ATTN: Ms. Jaime Gore

PHONE: (404) 362-4912 FAX: (919) 541-0516

FILE #: 4022.00

REPORTED: 10/29/21 14:27

SUBMITTED: 08/27/21 to 09/30/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 1092308-01

Sampled: 09/19/21 23:59

Pressure @ Receipt: 10.00" Hg

Canister #: A21095

Received: 09/23/21 11:09

Comments:

Analyzed: 10/05/21 21:31

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.934	1.69		0.0261



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PHONE: (404) 362-4912 FAX: (919) 541-0516

FILE #: 4022.00

REPORTED: 10/29/21 14:27

SUBMITTED: 08/27/21 to 09/30/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb ATEC

Lab ID: 1092308-02

Sampled: 09/19/21 23:59

Pressure @ Receipt: 14.0 "Hg

Canister #: 35135

Received: 09/23/21 11:09

Comments: High Vacuum

Analyzed: 10/05/21 22:35

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.217	0.39		0.0261



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PHONE: (404) 362-4912 FAX: (919) 541-0516

FILE #: 4022.00

REPORTED: 10/29/21 14:27

SUBMITTED: 08/27/21 to 09/30/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb

Lab ID: 1092940-01

Sampled: 09/25/21 23:59

Pressure @ Receipt: 6.00" Hg

Canister #: A21106

Received: 09/29/21 14:30

Comments:

Analyzed: 10/05/21 23:36

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.262	0.47	LK	0.0261



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ATTN: Ms. Jaime Gore

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FILE #: 4022.00

REPORTED: 10/29/21 14:27

SUBMITTED: 08/27/21 to 09/30/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb ATEC

Lab ID: 1092940-02

Sampled: 09/22/21 23:59

Pressure @ Receipt: 14.0 "Hg

Canister #: 19282

Received: 09/29/21 14:30

Comments: High Vacuum

Analyzed: 10/06/21 00:41

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.138	0.25		0.0261



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FILE #: 4022.00

REPORTED: 10/29/21 14:27

SUBMITTED: 08/27/21 to 09/30/21

AQS SITE CODE:

SITE CODE: GA EtO

Description: South Dekalb ATEC

Lab ID: 1093009-01

Sampled: 09/25/21 23:59

Pressure @ Receipt: 9.75 psig

Canister #: SAT061

Received: 09/30/21 12:07

Comments:

Analyzed: 10/07/21 22:10

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.114	0.21	LK	0.0261



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FILE #: 4022.00
REPORTED: 10/29/21 14:27
SUBMITTED: 08/27/21 to 09/30/21
AQS SITE CODE:
SITE CODE: GA EtO

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
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Air Toxics by EPA Compendium Method TO-15 - Quality Control

Batch B1I0203 - Summa Canister Prep

Blank (B1I0203-BLK1)

Prepared & Analyzed: 09/02/21

Ethylene oxide	ND	ppbv				U
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Batch B1I1505 - Summa Canister Prep

Blank (B1I1505-BLK1)

Prepared & Analyzed: 09/15/21

Ethylene oxide	ND	ppbv				U
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Batch B1I2104 - Summa Canister Prep

Blank (B1I2104-BLK1)

Prepared & Analyzed: 09/21/21

Ethylene oxide	ND	ppbv				U
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Duplicate (B1I2104-DUP3) Source: 1090937-04

Prepared: 09/01/21 Analyzed: 09/21/21

Ethylene oxide	0.131	ppbv	0.12	7.19	25	
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Duplicate (B1I2104-DUP4) Source: 1090937-05

Prepared: 09/01/21 Analyzed: 09/22/21

Ethylene oxide	0.236	ppbv	0.25	4.14	25	
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Duplicate (B1I2104-DUP7) Source: 1091311-03

Prepared: 09/07/21 Analyzed: 09/22/21

Ethylene oxide	0.101	ppbv	0.10	3.63	25	
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Duplicate (B1I2104-DUP8) Source: 1091311-01

Prepared: 09/07/21 Analyzed: 09/22/21

Ethylene oxide	0.0542	ppbv	0.06	8.14	25	
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Batch B1J0503 - Summa Canister Prep

Blank (B1J0503-BLK1)

Prepared & Analyzed: 10/05/21

Ethylene oxide	ND	ppbv				U
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Batch B1J0704 - Summa Canister Prep

Blank (B1J0704-BLK1)

Prepared & Analyzed: 10/07/21

Ethylene oxide	ND	ppbv				U
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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 4
 4244 International Pkwy, Suite 120
 Atlanta, GA 30354
 ATTN: Ms. Jaime Gore
 PHONE: (404) 362-4912 FAX: (919) 541-0516

FILE #: 4022.00
 REPORTED: 10/29/21 14:27
 SUBMITTED: 08/27/21 to 09/30/21
 AQS SITE CODE:
 SITE CODE: GA EtO

Analyte	Result	Units	% Difference	Limit (%)	Notes
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Air Toxics by EPA Compendium Method TO-15 - Quality Control

Sequence 2109010

Calibration Check (2109010-CCV1)

Prepared & Analyzed: 09/02/21

Ethylene oxide	2.68	ppbv	6.8	30.00
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Sequence 2109045

Calibration Check (2109045-CCV1)

Prepared & Analyzed: 09/15/21

Ethylene oxide	2.41	ppbv	-3.7	30.00
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Sequence 2109058

Calibration Check (2109058-CCV1)

Prepared & Analyzed: 09/21/21

Ethylene oxide	2.48	ppbv	-1.1	30.00
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Sequence 2110005

Calibration Check (2110005-CCV1)

Prepared & Analyzed: 10/05/21

Ethylene oxide	2.72	ppbv	12.5	30.00
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Sequence 2110016

Calibration Check (2110016-CCV1)

Prepared & Analyzed: 10/07/21

Ethylene oxide	3.02	ppbv	24.9	30.00
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Notes and Definitions

U Under Detection Limit
ND Analyte NOT DETECTED
NR Not Reported
MDL Method Detection Limit
RPD Relative Percent Difference
LK Analyte identified; Reported value may be biased high.

Note: This test is accredited under the 2016 TNI Standard; however the following analytes are not accredited: acetylene, bromodichloroethane, dichlorotetrafluoromethane, ethyl tert butyl ether, n-octane, tert amyl methyl ether, trichlorofluoroethane, and bromochloromethane.