

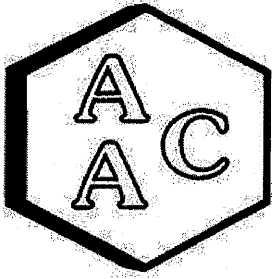
# **Volatile Organic Compound Analysis Results for Samples Collected in Nuiqsut, Alaska**

Sample Location: Nuiqsut Ambient Air Quality Monitoring Station

Date Sample Collected: 4/20/2022

Analysis Conducted by: Atmospheric Analysis & Consulting, Inc.

Analysis Method: EPA Method TO-15



# Atmospheric Analysis & Consulting, Inc.

## Laboratory Analysis Report

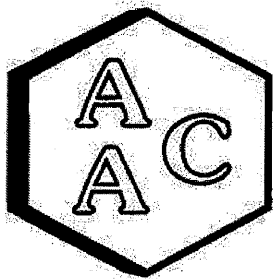
CLIENT : SLR International Corporation  
 PROJECT NO : 220866  
 MATRIX : AIR  
 UNITS : PPB (v/v)

DATE RECEIVED : 04/22/2022  
 DATE REPORTED : 04/25/2022  
 ANALYST : MB

### VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

| Client ID                      |        | NUI          |             |      | Sample Reporting Limit (SRL) (MRLxDF's) | Method Reporting Limit (MRL) |
|--------------------------------|--------|--------------|-------------|------|---|------------------------------|
| AAC ID                         |        | 220866-30422 |             |      |   |                              |
| Date Sampled                   |        | 04/20/2022   |             |      |   |                              |
| Date Analyzed                  |        | 04/22/2022   |             |      |   |                              |
| Can Dilution Factor            |        | 1.49         |             |      |   |                              |
| Compound                       | Result | Qualifier    | Analysis DF |      |   |                              |
| Chlorodifluoromethane          | <SRL   | U            | 1           | 0.74 | 0.50                                    |                              |
| Propene                        | <SRL   | U            | 1           | 1.49 | 1.00                                    |                              |
| Dichlorodifluoromethane        | <SRL   | U            | 1           | 0.74 | 0.50                                    |                              |
| Chloromethane                  | <SRL   | U            | 1           | 0.74 | 0.50                                    |                              |
| Dichlorotetrafluoroethane      | <SRL   | U            | 1           | 0.74 | 0.50                                    |                              |
| Vinyl Chloride                 | <SRL   | U            | 1           | 0.74 | 0.50                                    |                              |
| Methanol                       | <SRL   | U            | 1           | 7.43 | 5.00                                    |                              |
| 1,3-Butadiene                  | <SRL   | U            | 1           | 0.74 | 0.50                                    |                              |
| Bromomethane                   | <SRL   | U            | 1           | 0.74 | 0.50                                    |                              |
| Chloroethane                   | <SRL   | U            | 1           | 0.74 | 0.50                                    |                              |
| Dichlorofluoromethane          | <SRL   | U            | 1           | 0.74 | 0.50                                    |                              |
| Ethanol                        | <SRL   | U            | 1           | 2.97 | 2.00                                    |                              |
| Vinyl Bromide                  | <SRL   | U            | 1           | 0.74 | 0.50                                    |                              |
| Acetone                        | <SRL   | U            | 1           | 2.97 | 2.00                                    |                              |
| Trichlorofluoromethane         | <SRL   | U            | 1           | 0.74 | 0.50                                    |                              |
| 2-Propanol (IPA)               | <SRL   | U            | 1           | 2.97 | 2.00                                    |                              |
| Acrylonitrile                  | <SRL   | U            | 1           | 2.97 | 2.00                                    |                              |
| 1,1-Dichloroethene             | <SRL   | U            | 1           | 0.74 | 0.50                                    |                              |
| Methylene Chloride (DCM)       | <SRL   | U            | 1           | 1.49 | 1.00                                    |                              |
| Allyl Chloride                 | <SRL   | U            | 1           | 1.49 | 1.00                                    |                              |
| Carbon Disulfide               | <SRL   | U            | 1           | 2.97 | 2.00                                    |                              |
| Trichlorotrifluoroethane       | <SRL   | U            | 1           | 0.74 | 0.50                                    |                              |
| trans-1,2-Dichloroethene       | <SRL   | U            | 1           | 0.74 | 0.50                                    |                              |
| 1,1-Dichloroethane             | <SRL   | U            | 1           | 0.74 | 0.50                                    |                              |
| Methyl Tert Butyl Ether (MTBE) | <SRL   | U            | 1           | 0.74 | 0.50                                    |                              |
| Vinyl Acetate                  | <SRL   | U            | 1           | 1.49 | 1.00                                    |                              |
| 2-Butanone (MEK)               | <SRL   | U            | 1           | 1.49 | 1.00                                    |                              |
| cis-1,2-Dichloroethene         | <SRL   | U            | 1           | 0.74 | 0.50                                    |                              |
| Hexane                         | <SRL   | U            | 1           | 0.74 | 0.50                                    |                              |
| Chloroform                     | <SRL   | U            | 1           | 0.74 | 0.50                                    |                              |
| Ethyl Acetate                  | <SRL   | U            | 1           | 0.74 | 0.50                                    |                              |
| Tetrahydrofuran                | <SRL   | U            | 1           | 0.74 | 0.50                                    |                              |
| 1,2-Dichloroethane             | <SRL   | U            | 1           | 0.74 | 0.50                                    |                              |
| 1,1,1-Trichloroethane          | <SRL   | U            | 1           | 0.74 | 0.50                                    |                              |
| Benzene                        | <SRL   | U            | 1           | 0.74 | 0.50                                    |                              |





# Atmospheric Analysis & Consulting, Inc.

## Laboratory Analysis Report

**CLIENT :** SLR International Corporation  
**PROJECT NO :** 220866  
**MATRIX :** AIR  
**UNITS :** PPB (v/v)

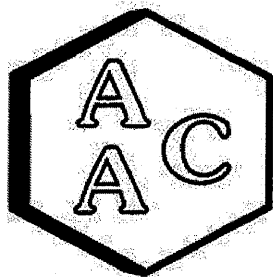
**DATE RECEIVED :** 04/22/2022  
**DATE REPORTED :** 04/25/2022  
**ANALYST :** MB

### VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

| <i>Client ID</i>                  |        | NUI          |             | Sample Reporting Limit (SRL) (MRLxDF's) | Method Reporting Limit (MRL) |
|-----------------------------------|--------|--------------|-------------|---|------------------------------|
| <i>AAC ID</i>                     |        | 220866-30422 |             |   |                              |
| <i>Date Sampled</i>               |        | 04/20/2022   |             |   |                              |
| <i>Date Analyzed</i>              |        | 04/22/2022   |             |   |                              |
| <i>Can Dilution Factor</i>        |        | 1.49         |             |   |                              |
| <i>Compound</i>                   | Result | Qualifier    | Analysis DF |   |                              |
| Carbon Tetrachloride              | <SRL   | U            | 1           | 0.74                                    | 0.50                         |
| Cyclohexane                       | <SRL   | U            | 1           | 0.74                                    | 0.50                         |
| 1,2-Dichloropropane               | <SRL   | U            | 1           | 0.74                                    | 0.50                         |
| Bromodichloromethane              | <SRL   | U            | 1           | 0.74                                    | 0.50                         |
| 1,4-Dioxane                       | <SRL   | U            | 1           | 1.49                                    | 1.00                         |
| Trichloroethene (TCE)             | <SRL   | U            | 1           | 0.74                                    | 0.50                         |
| 2,2,4-Trimethylpentane            | <SRL   | U            | 1           | 0.74                                    | 0.50                         |
| Heptane                           | <SRL   | U            | 1           | 0.74                                    | 0.50                         |
| cis-1,3-Dichloropropene           | <SRL   | U            | 1           | 0.74                                    | 0.50                         |
| 4-Methyl-2-pentanone (MiBK)       | <SRL   | U            | 1           | 0.74                                    | 0.50                         |
| trans-1,3-Dichloropropene         | <SRL   | U            | 1           | 0.74                                    | 0.50                         |
| 1,1,2-Trichloroethane             | <SRL   | U            | 1           | 0.74                                    | 0.50                         |
| Toluene                           | <SRL   | U            | 1           | 0.74                                    | 0.50                         |
| 2-Hexanone (MBK)                  | <SRL   | U            | 1           | 1.49                                    | 1.00                         |
| Dibromochloromethane              | <SRL   | U            | 1           | 0.74                                    | 0.50                         |
| 1,2-Dibromoethane                 | <SRL   | U            | 1           | 0.74                                    | 0.50                         |
| Tetrachloroethene (PCE)           | <SRL   | U            | 1           | 0.74                                    | 0.50                         |
| Chlorobenzene                     | <SRL   | U            | 1           | 0.74                                    | 0.50                         |
| Ethylbenzene                      | <SRL   | U            | 1           | 0.74                                    | 0.50                         |
| m & p-Xylene                      | <SRL   | U            | 1           | 1.49                                    | 1.00                         |
| Bromoform                         | <SRL   | U            | 1           | 0.74                                    | 0.50                         |
| Styrene                           | <SRL   | U            | 1           | 0.74                                    | 0.50                         |
| 1,1,2,2-Tetrachloroethane         | <SRL   | U            | 1           | 0.74                                    | 0.50                         |
| o-Xylene                          | <SRL   | U            | 1           | 0.74                                    | 0.50                         |
| 4-Ethyltoluene                    | <SRL   | U            | 1           | 0.74                                    | 0.50                         |
| 1,3,5-Trimethylbenzene            | <SRL   | U            | 1           | 0.74                                    | 0.50                         |
| 1,2,4-Trimethylbenzene            | <SRL   | U            | 1           | 0.74                                    | 0.50                         |
| Benzyl Chloride (a-Chlorotoluene) | <SRL   | U            | 1           | 0.74                                    | 0.50                         |
| 1,3-Dichlorobenzene               | <SRL   | U            | 1           | 0.74                                    | 0.50                         |
| 1,4-Dichlorobenzene               | <SRL   | U            | 1           | 0.74                                    | 0.50                         |
| 1,2-Dichlorobenzene               | <SRL   | U            | 1           | 0.74                                    | 0.50                         |
| 1,2,4-Trichlorobenzene            | <SRL   | U            | 1           | 0.74                                    | 0.50                         |
| Hexachlorobutadiene               | <SRL   | U            | 1           | 0.74                                    | 0.50                         |
| BFB-Surrogate Std. % Recovery     |        | 90%          |             |   | 70-130%                      |

U - Compound was not detected at or above the SRL.





# Atmospheric Analysis & Consulting, Inc.

## QUALITY CONTROL / QUALITY ASSURANCE REPORT

ANALYSIS DATE : 04/22/2022  
 MATRIX : High Purity N<sub>2</sub>  
 UNITS : PPB (v/v)

INSTRUMENT ID : GC/MS-04  
 CALIBRATION STD ID : MS1-030122-01  
 ANALYST : MB

### VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15

Continuing Calibration Verification of the 03/29/2022 Calibration

| Analyte Compounds              | Source <sup>1</sup> | CCV <sup>2</sup> | % Recovery <sup>3</sup> |
|--------------------------------|---------------------|------------------|-------------------------|
| 4-BFB (surrogate standard)     | 9.80                | 9.74             | 99                      |
| Chlorodifluoromethane          | 10.40               | 11.82            | 114                     |
| Propene                        | 10.60               | 12.27            | 116                     |
| Dichlorodifluoromethane        | 10.40               | 10.58            | 102                     |
| Dimethyl Ether                 | 10.20               | 11.09            | 109                     |
| Chloromethane                  | 10.40               | 11.39            | 110                     |
| Dichlorotetrafluoroethane      | 10.30               | 10.18            | 99                      |
| Vinyl Chloride                 | 10.50               | 11.26            | 107                     |
| Acetaldehyde                   | 21.10               | 21.47            | 102                     |
| Methanol                       | 18.80               | 16.35            | 87                      |
| 1,3-Butadiene                  | 10.60               | 12.84            | 121                     |
| Bromomethane                   | 10.40               | 9.05             | 87                      |
| Chloroethane                   | 10.30               | 8.96             | 87                      |
| Dichlorofluoromethane          | 10.20               | 8.84             | 87                      |
| Ethanol                        | 11.20               | 10.37            | 93                      |
| Vinyl Bromide                  | 10.10               | 8.32             | 82                      |
| Acrolein                       | 11.10               | 11.70            | 105                     |
| Acetone                        | 10.60               | 11.12            | 105                     |
| Trichlorofluoromethane         | 10.50               | 8.87             | 84                      |
| 2-Propanol (IPA)               | 11.00               | 10.71            | 97                      |
| Acrylonitrile                  | 11.20               | 11.39            | 102                     |
| 1,1-Dichloroethene             | 10.40               | 10.49            | 101                     |
| Methylene Chloride (DCM)       | 10.50               | 10.21            | 97                      |
| TertButanol (TBA)              | 11.10               | 10.26            | 92                      |
| Allyl Chloride                 | 10.20               | 11.39            | 112                     |
| Carbon Disulfide               | 10.50               | 10.27            | 98                      |
| Trichlorotrifluoroethane       | 10.40               | 10.07            | 97                      |
| trans-1,2-Dichloroethene       | 10.60               | 10.44            | 98                      |
| 1,1-Dichloroethane             | 10.50               | 10.94            | 104                     |
| Methyl Tert Butyl Ether (MTBE) | 10.50               | 11.09            | 106                     |
| Vinyl Acetate                  | 11.00               | 12.70            | 115                     |
| 2-Butanone (MEK)               | 10.60               | 10.76            | 102                     |
| cis-1,2-Dichloroethene         | 10.50               | 10.61            | 101                     |
| Hexane                         | 10.70               | 9.96             | 93                      |
| Chloroform                     | 10.60               | 10.65            | 100                     |
| Ethyl Acetate                  | 10.60               | 11.37            | 107                     |
| Tetrahydrofuran                | 10.20               | 11.10            | 109                     |
| 1,2-Dichloroethane             | 10.50               | 11.27            | 107                     |
| 1,1,1-Trichloroethane          | 10.40               | 9.98             | 96                      |
| Benzene                        | 10.60               | 10.17            | 96                      |
| Carbon Tetrachloride           | 10.20               | 9.53             | 93                      |
| Cyclohexane                    | 10.50               | 10.58            | 101                     |

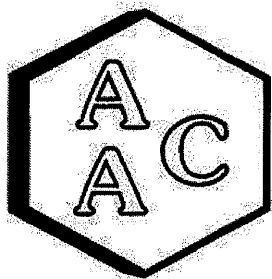
| Analyte Compounds (Continued)     | Source <sup>1</sup> | CCV <sup>2</sup> | % Recovery <sup>3</sup> |
|-----------------------------------|---------------------|------------------|-------------------------|
| 1,2-Dichloropropane               | 10.50               | 10.44            | 99                      |
| Bromodichloromethane              | 10.40               | 9.79             | 94                      |
| 1,4-Dioxane                       | 10.40               | 8.41             | 81                      |
| Trichloroethene (TCE)             | 10.40               | 9.46             | 91                      |
| 2,2,4-Trimethylpentane            | 10.00               | 10.75            | 108                     |
| Methyl Methacrylate               | 11.00               | 10.47            | 95                      |
| Heptane                           | 10.50               | 10.07            | 96                      |
| cis-1,3-Dichloropropene           | 10.40               | 10.01            | 96                      |
| 4-Methyl-2-pentanone (MiBK)       | 10.40               | 10.04            | 97                      |
| trans-1,3-Dichloropropene         | 10.50               | 10.36            | 99                      |
| 1,1,2-Trichloroethane             | 10.50               | 9.69             | 92                      |
| Toluene                           | 10.60               | 10.02            | 95                      |
| 2-Hexanone (MBK)                  | 10.50               | 10.00            | 95                      |
| Dibromochloromethane              | 10.30               | 9.06             | 88                      |
| 1,2-Dibromoethane                 | 10.60               | 9.59             | 90                      |
| Tetrachloroethene (PCE)           | 10.40               | 8.59             | 83                      |
| Chlorobenzene                     | 10.60               | 9.95             | 94                      |
| Ethylbenzene                      | 10.50               | 10.33            | 98                      |
| m & p-Xylene                      | 21.00               | 21.18            | 101                     |
| Bromoform                         | 10.50               | 9.74             | 93                      |
| Styrene                           | 10.50               | 10.81            | 103                     |
| 1,1,2,2-Tetrachloroethane         | 10.50               | 10.49            | 100                     |
| o-Xylene                          | 10.50               | 10.90            | 104                     |
| 1,2,3-Trichloropropane            | 11.00               | 10.80            | 98                      |
| Isopropylbenzene (Cumene)         | 10.30               | 10.55            | 102                     |
| α-Pinene                          | 10.70               | 10.95            | 102                     |
| 2-Chlorotoluene                   | 10.30               | 10.14            | 98                      |
| n-Propylbenzene                   | 10.10               | 10.12            | 100                     |
| 4-Ethyltoluene                    | 10.30               | 10.48            | 102                     |
| 1,3,5-Trimethylbenzene            | 10.30               | 10.28            | 100                     |
| β-Pinene                          | 11.00               | 11.23            | 102                     |
| 1,2,4-Trimethylbenzene            | 10.30               | 10.67            | 104                     |
| Benzyl Chloride (a-Chlorotoluene) | 10.40               | 9.91             | 95                      |
| 1,3-Dichlorobenzene               | 10.40               | 10.38            | 100                     |
| 1,4-Dichlorobenzene               | 10.30               | 10.40            | 101                     |
| Sec-ButylBenzene                  | 10.10               | 10.53            | 104                     |
| 1,2-Dichlorobenzene               | 10.60               | 10.68            | 101                     |
| n-ButylBenzene                    | 10.20               | 10.33            | 101                     |
| 1,2-Dibromo-3-Chloropropane       | 10.10               | 9.30             | 92                      |
| 1,2,4-Trichlorobenzene            | 11.00               | 10.01            | 91                      |
| Naphthalene                       | 11.50               | 10.97            | 95                      |
| Hexachlorobutadiene               | 11.00               | 9.88             | 90                      |

<sup>1</sup> Concentration of analyte compound in certified source standard.

<sup>2</sup> Measured result from daily Continuing Calibration Verification (CCV).

<sup>3</sup> The acceptable range for analyte recovery is 100±30%.





# Atmospheric Analysis & Consulting, Inc.

## QUALITY CONTROL / QUALITY ASSURANCE REPORT

ANALYSIS DATE : 04/22/2022

MATRIX : High Purity N<sub>2</sub>

UNITS : PPB (v/v)

INSTRUMENT ID : GC/MS-04

CALIBRATION STD ID : MS1-030122-01

ANALYST : MB

### VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15

Laboratory Control Spike Analysis

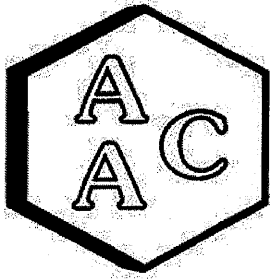
| <i>System Monitoring Compounds</i> | <i>Sample Concentration</i> | <i>Spike Added</i> | <i>LCS<sup>1</sup> Recovery</i> | <i>LCSD<sup>1</sup> Recovery</i> | <i>LCS<sup>1</sup> % Recovery<sup>2</sup></i> | <i>LCSD<sup>1</sup> % Recovery<sup>2</sup></i> | <i>RPD<sup>3</sup></i> |
|------------------------------------|-----------------------------|--------------------|---------------------------------|----------------------------------|---|--|------------------------|
| 4-BFB (surrogate standard)         | 0.0                         | 9.80               | 9.74                            | 9.71                             | 99  | 99   | 0.3                    |
| 1,1-Dichloroethene                 | 0.0                         | 10.40              | 10.49                           | 10.39                            | 101   | 100  | 1.0                    |
| Methylene Chloride (DCM)           | 0.0                         | 10.50              | 10.21                           | 10.28                            | 97  | 98   | 0.7                    |
| Benzene                            | 0.0                         | 10.60              | 10.17                           | 10.26                            | 96  | 97   | 0.9                    |
| Trichloroethene (TCE)              | 0.0                         | 10.40              | 9.46                            | 9.59                             | 91  | 92   | 1.4                    |
| Toluene                            | 0.0                         | 10.60              | 10.02                           | 10.06                            | 95  | 95   | 0.4                    |
| Tetrachloroethene (PCE)            | 0.0                         | 10.40              | 8.59                            | 8.68                             | 83  | 83   | 1.0                    |
| Chlorobenzene                      | 0.0                         | 10.60              | 9.95                            | 9.91                             | 94  | 93   | 0.4                    |
| Ethylbenzene                       | 0.0                         | 10.50              | 10.33                           | 10.24                            | 98  | 98   | 0.9                    |
| m & p-Xylene                       | 0.0                         | 21.00              | 21.18                           | 21.06                            | 101   | 100  | 0.6                    |
| o-Xylene                           | 0.0                         | 10.50              | 10.90                           | 10.82                            | 104   | 103  | 0.7                    |

<sup>1</sup> Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

<sup>2</sup> The acceptable range for analyte recovery is 100±30%.

<sup>3</sup> Relative Percent Difference (RPD) between LCS recovery and LCSD recovery (acceptable range is <25%).





# Atmospheric Analysis & Consulting, Inc.

## QUALITY CONTROL / QUALITY ASSURANCE REPORT

ANALYSIS DATE : 04/22/2022

INSTRUMENT ID : GC/MS-04

MATRIX : High Purity He or N<sub>2</sub>

ANALYST : MB

UNITS : PPB (v/v)

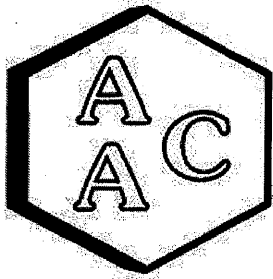
### VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15

Method Blank Analysis

| Analyte Compounds              | MB 042222 | Reporting Limit (RL) |
|--------------------------------|-----------|----------------------|
| 4-BFB (surrogate standard)     | 91%       | 100±30%              |
| Chlorodifluoromethane          | <RL       | 0.5                  |
| Propene                        | <RL       | 1.0                  |
| Dichlorodifluoromethane        | <RL       | 0.5                  |
| Dimethyl Ether                 | <RL       | 0.5                  |
| Chloromethane                  | <RL       | 0.5                  |
| Dichlorotetrafluoroethane      | <RL       | 0.5                  |
| Vinyl Chloride                 | <RL       | 0.5                  |
| Acetaldehyde                   | <RL       | 5.0                  |
| Methanol                       | <RL       | 5.0                  |
| 1,3-Butadiene                  | <RL       | 0.5                  |
| Bromomethane                   | <RL       | 0.5                  |
| Chloroethane                   | <RL       | 0.5                  |
| Dichlorofluoromethane          | <RL       | 0.5                  |
| Ethanol                        | <RL       | 2.0                  |
| Vinyl Bromide                  | <RL       | 0.5                  |
| Acrolein                       | <RL       | 1.0                  |
| Acetone                        | <RL       | 2.0                  |
| Trichlorofluoromethane         | <RL       | 0.5                  |
| 2-Propanol (IPA)               | <RL       | 2.0                  |
| Acrylonitrile                  | <RL       | 2.0                  |
| 1,1-Dichloroethene             | <RL       | 0.5                  |
| Methylene Chloride (DCM)       | <RL       | 1.0                  |
| TertButanol (TBA)              | <RL       | 0.5                  |
| Allyl Chloride                 | <RL       | 1.0                  |
| Carbon Disulfide               | <RL       | 2.0                  |
| Trichlorotrifluoroethane       | <RL       | 0.5                  |
| trans-1,2-Dichloroethene       | <RL       | 0.5                  |
| 1,1-Dichloroethane             | <RL       | 0.5                  |
| Methyl Tert Butyl Ether (MTBE) | <RL       | 0.5                  |
| Vinyl Acetate                  | <RL       | 1.0                  |
| 2-Butanone (MEK)               | <RL       | 1.0                  |
| cis-1,2-Dichloroethene         | <RL       | 0.5                  |
| Hexane                         | <RL       | 0.5                  |
| Chloroform                     | <RL       | 0.5                  |
| Ethyl Acetate                  | <RL       | 0.5                  |
| Tetrahydrofuran                | <RL       | 0.5                  |
| 1,2-Dichloroethane             | <RL       | 0.5                  |
| 1,1,1-Trichloroethane          | <RL       | 0.5                  |
| Benzene                        | <RL       | 0.5                  |
| Carbon Tetrachloride           | <RL       | 0.5                  |
| Cyclohexane                    | <RL       | 0.5                  |

| Analyte Compounds (Continued)     | MB 042222 | Reporting Limit (RL) |
|-----------------------------------|-----------|----------------------|
| 1,2-Dichloropropane               | <RL       | 0.5                  |
| Bromodichloromethane              | <RL       | 0.5                  |
| 1,4-Dioxane                       | <RL       | 1.0                  |
| Trichloroethene (TCE)             | <RL       | 0.5                  |
| 2,2,4-Trimethylpentane            | <RL       | 0.5                  |
| Methyl Methacrylate               | <RL       | 0.5                  |
| Heptane                           | <RL       | 0.5                  |
| cis-1,3-Dichloropropene           | <RL       | 0.5                  |
| 4-Methyl-2-pentanone (MiBK)       | <RL       | 0.5                  |
| trans-1,3-Dichloropropene         | <RL       | 0.5                  |
| 1,1,2-Trichloroethane             | <RL       | 0.5                  |
| Toluene                           | <RL       | 0.5                  |
| 2-Hexanone (MBK)                  | <RL       | 1.0                  |
| Dibromochloromethane              | <RL       | 0.5                  |
| 1,2-Dibromoethane                 | <RL       | 0.5                  |
| Tetrachloroethene (PCE)           | <RL       | 0.5                  |
| Chlorobenzene                     | <RL       | 0.5                  |
| Ethylbenzene                      | <RL       | 0.5                  |
| m & p-Xylene                      | <RL       | 1.0                  |
| Bromoform                         | <RL       | 0.5                  |
| Styrene                           | <RL       | 0.5                  |
| 1,1,2,2-Tetrachloroethane         | <RL       | 0.5                  |
| o-Xylene                          | <RL       | 0.5                  |
| 1,2,3-Trichloropropane            | <RL       | 0.5                  |
| Isopropylbenzene (Cumene)         | <RL       | 0.5                  |
| α-Pinene                          | <RL       | 0.5                  |
| 2-Chlorotoluene                   | <RL       | 0.5                  |
| n-Propylbenzene                   | <RL       | 0.5                  |
| 4-Ethyltoluene                    | <RL       | 0.5                  |
| 1,3,5-Trimethylbenzene            | <RL       | 0.5                  |
| β-Pinene                          | <RL       | 0.5                  |
| 1,2,4-Trimethylbenzene            | <RL       | 0.5                  |
| Benzyl Chloride (α-Chlorotoluene) | <RL       | 0.5                  |
| 1,3-Dichlorobenzene               | <RL       | 0.5                  |
| 1,4-Dichlorobenzene               | <RL       | 0.5                  |
| Sec-ButylBenzene                  | <RL       | 0.5                  |
| 1,2-Dichlorobenzene               | <RL       | 0.5                  |
| n-ButylBenzene                    | <RL       | 0.5                  |
| 1,2-Dibromo-3-Chloropropane       | <RL       | 0.5                  |
| 1,2,4-Trichlorobenzene            | <RL       | 0.5                  |
| Naphthalene                       | <RL       | 1.0                  |
| Hexachlorobutadiene               | <RL       | 0.5                  |





# Atmospheric Analysis & Consulting, Inc.

## QUALITY CONTROL / QUALITY ASSURANCE REPORT

ANALYSIS DATE : 04/22/2022  
 MATRIX : Air  
 UNITS : PPB (v/v)

INSTRUMENT ID : GC/MS-04  
 ANALYST : MB  
 DILUTION FACTOR<sup>1</sup> : x1.49

### VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15

Duplicate Analysis of AAC Sample ID: 220866-30422

| Analyte Compounds              | Sample | Duplicate | RPD <sup>2</sup> |
|--------------------------------|--------|-----------|------------------|
| 4-BFB (surrogate standard)     | 8.97   | 8.89      | 0.9              |
| Chlorodifluoromethane          | <SRL   | <SRL      | NA               |
| Propene                        | <SRL   | <SRL      | NA               |
| Dichlorodifluoromethane        | <SRL   | <SRL      | NA               |
| Dimethyl Ether                 | <SRL   | <SRL      | NA               |
| Chloromethane                  | <SRL   | <SRL      | NA               |
| Dichlorotetrafluoroethane      | <SRL   | <SRL      | NA               |
| Vinyl Chloride                 | <SRL   | <SRL      | NA               |
| Acetaldehyde                   | <SRL   | <SRL      | NA               |
| Methanol                       | <SRL   | <SRL      | NA               |
| 1,3-Butadiene                  | <SRL   | <SRL      | NA               |
| Bromomethane                   | <SRL   | <SRL      | NA               |
| Chloroethane                   | <SRL   | <SRL      | NA               |
| Dichlorofluoromethane          | <SRL   | <SRL      | NA               |
| Ethanol                        | <SRL   | <SRL      | NA               |
| Vinyl Bromide                  | <SRL   | <SRL      | NA               |
| Acrolein                       | <SRL   | <SRL      | NA               |
| Acetone                        | <SRL   | <SRL      | NA               |
| Trichlorofluoromethane         | <SRL   | <SRL      | NA               |
| 2-Propanol (IPA)               | <SRL   | <SRL      | NA               |
| Acrylonitrile                  | <SRL   | <SRL      | NA               |
| 1,1-Dichloroethene             | <SRL   | <SRL      | NA               |
| Methylene Chloride (DCM)       | <SRL   | <SRL      | NA               |
| TertButanol (TBA)              | <SRL   | <SRL      | NA               |
| Allyl Chloride                 | <SRL   | <SRL      | NA               |
| Carbon Disulfide               | <SRL   | <SRL      | NA               |
| Trichlorotrifluoroethane       | <SRL   | <SRL      | NA               |
| trans-1,2-Dichloroethene       | <SRL   | <SRL      | NA               |
| 1,1-Dichloroethane             | <SRL   | <SRL      | NA               |
| Methyl Tert Butyl Ether (MTBE) | <SRL   | <SRL      | NA               |
| Vinyl Acetate                  | <SRL   | <SRL      | NA               |
| 2-Butanone (MEK)               | <SRL   | <SRL      | NA               |
| cis-1,2-Dichloroethene         | <SRL   | <SRL      | NA               |
| Hexane                         | <SRL   | <SRL      | NA               |
| Chloroform                     | <SRL   | <SRL      | NA               |
| Ethyl Acetate                  | <SRL   | <SRL      | NA               |
| Tetrahydrofuran                | <SRL   | <SRL      | NA               |
| 1,2-Dichloroethane             | <SRL   | <SRL      | NA               |
| 1,1,1-Trichloroethane          | <SRL   | <SRL      | NA               |
| Benzene                        | <SRL   | <SRL      | NA               |
| Carbon Tetrachloride           | <SRL   | <SRL      | NA               |
| Cyclohexane                    | <SRL   | <SRL      | NA               |

| Analyte Compounds (Continued)     | Sample | Duplicate | RPD <sup>2</sup> |
|-----------------------------------|--------|-----------|------------------|
| 1,2-Dichloropropane               | <SRL   | <SRL      | NA               |
| Bromodichloromethane              | <SRL   | <SRL      | NA               |
| 1,4-Dioxane                       | <SRL   | <SRL      | NA               |
| Trichloroethene (TCE)             | <SRL   | <SRL      | NA               |
| 2,2,4-Trimethylpentane            | <SRL   | <SRL      | NA               |
| Methyl Methacrylate               | <SRL   | <SRL      | NA               |
| Heptane                           | <SRL   | <SRL      | NA               |
| cis-1,3-Dichloropropene           | <SRL   | <SRL      | NA               |
| 4-Methyl-2-pentanone (MIBK)       | <SRL   | <SRL      | NA               |
| trans-1,3-Dichloropropene         | <SRL   | <SRL      | NA               |
| 1,1,2-Trichloroethane             | <SRL   | <SRL      | NA               |
| Toluene                           | <SRL   | <SRL      | NA               |
| 2-Hexanone (MBK)                  | <SRL   | <SRL      | NA               |
| Dibromochloromethane              | <SRL   | <SRL      | NA               |
| 1,2-Dibromoethane                 | <SRL   | <SRL      | NA               |
| Tetrachloroethene (PCE)           | <SRL   | <SRL      | NA               |
| Chlorobenzene                     | <SRL   | <SRL      | NA               |
| Ethylbenzene                      | <SRL   | <SRL      | NA               |
| m & p-Xylene                      | <SRL   | <SRL      | NA               |
| Bromoform                         | <SRL   | <SRL      | NA               |
| Styrene                           | <SRL   | <SRL      | NA               |
| 1,1,2,2-Tetrachloroethane         | <SRL   | <SRL      | NA               |
| o-Xylene                          | <SRL   | <SRL      | NA               |
| 1,2,3-Trichloropropane            | <SRL   | <SRL      | NA               |
| Isopropylbenzene (Cumene)         | <SRL   | <SRL      | NA               |
| α-Pinene                          | <SRL   | <SRL      | NA               |
| 2-Chlorotoluene                   | <SRL   | <SRL      | NA               |
| n-Propylbenzene                   | <SRL   | <SRL      | NA               |
| 4-Ethyltoluene                    | <SRL   | <SRL      | NA               |
| 1,3,5-Trimethylbenzene            | <SRL   | <SRL      | NA               |
| β-Pinene                          | <SRL   | <SRL      | NA               |
| 1,2,4-Trimethylbenzene            | <SRL   | <SRL      | NA               |
| Benzyl Chloride (a-Chlorotoluene) | <SRL   | <SRL      | NA               |
| 1,3-Dichlorobenzene               | <SRL   | <SRL      | NA               |
| 1,4-Dichlorobenzene               | <SRL   | <SRL      | NA               |
| Sec-ButylBenzene                  | <SRL   | <SRL      | NA               |
| 1,2-Dichlorobenzene               | <SRL   | <SRL      | NA               |
| n-ButylBenzene                    | <SRL   | <SRL      | NA               |
| 1,2-Dibromo-3-Chloropropane       | <SRL   | <SRL      | NA               |
| 1,2,4-Trichlorobenzene            | <SRL   | <SRL      | NA               |
| Naphthalene                       | <SRL   | <SRL      | NA               |
| Hexachlorobutadiene               | <SRL   | <SRL      | NA               |

<sup>1</sup> Dilution factor is the product of the Canister Dilution Factor and the Analysis Dilution Factor.

<sup>2</sup> Relative Percent Difference (RPD) between Sample analysis and Duplicate analysis (acceptable range is <25%).

SRL - Sample Reporting Limit (minimum)

