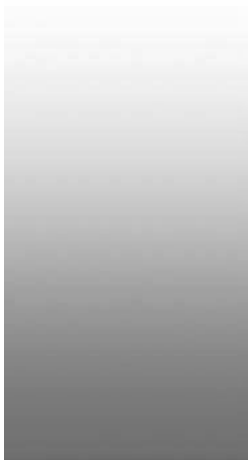


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***Automated Report***



## Technical Report for

**Providence Engineering**

**Valero-CAMS, Baton Rouge, LA**

**712-001**

**SGS Job Number: JD61465**

**Sampling Date: 03/02/23**

**Report to:**

Providence Engineering  
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Baton Rouge, LA 70802  
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ATTN: Brandon Kilpatrick

**Total number of pages in report: 35**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

**David Chastain**  
**General Manager**

**Client Service contact: Schuyler E. Weiss 732-329-0200**

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Test results relate only to samples analyzed.

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Sample Summary

Providence Engineering

Job No: JD61465

Valero-CAMS, Baton Rouge, LA  
Project No: 712-001

| Sample<br>Number | Collected |         | Matrix   |           | Client<br>Sample ID |
|------------------|-----------|---------|----------|-----------|---------------------|
|                  | Date      | Time By | Received | Code Type |                     |

This report contains results reported as ND = Not detected. The following applies:  
Organics ND = Not detected above the MDL

|           |          |          |          |     |                   |          |
|-----------|----------|----------|----------|-----|-------------------|----------|
| JD61465-1 | 03/02/23 | 10:55 DS | 03/07/23 | AIR | Ambient Air Comp. | CAMS 702 |
|-----------|----------|----------|----------|-----|-------------------|----------|

Sample Results

Report of Analysis

## Report of Analysis

|                          |                              |                        |          |
|--------------------------|------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | CAMS 702                     | <b>Date Sampled:</b>   | 03/02/23 |
| <b>Lab Sample ID:</b>    | JD61465-1                    | <b>Date Received:</b>  | 03/07/23 |
| <b>Matrix:</b>           | AIR - Ambient Air Comp.      | <b>Summa ID:</b>       | A2095    |
| <b>Method:</b>           | TO-15                        | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | Valero-CAMS, Baton Rouge, LA |                        |          |

|        | File ID   | DF | Analyzed       | By  | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|-----------|------------|------------------|
| Run #1 | 7W01131.D | 1  | 03/21/23 18:03 | TCH | n/a       | n/a        | V7W52            |
| Run #2 |           |    |                |     |           |            |                  |

|        | Initial Volume |
|--------|----------------|
| Run #1 | 400 ml         |
| Run #2 |                |

## VOA TO15 List

| CAS No.    | MW    | Compound                     | Result | RL   | MDL   | Units | Q | Result | RL   | MDL  | Units |
|------------|-------|------------------------------|--------|------|-------|-------|---|--------|------|------|-------|
| 67-64-1    | 58.08 | Acetone (2-Propanone)        | 8.4    | 0.20 | 0.15  | ppbv  |   | 20     | 0.48 | 0.36 | ug/m3 |
| 106-99-0   | 54.09 | 1,3-Butadiene                | ND     | 0.20 | 0.084 | ppbv  |   | ND     | 0.44 | 0.19 | ug/m3 |
| 71-43-2    | 78.11 | Benzene                      | 0.13   | 0.20 | 0.062 | ppbv  | J | 0.42   | 0.64 | 0.20 | ug/m3 |
| 75-27-4    | 163.8 | Bromodichloromethane         | ND     | 0.20 | 0.030 | ppbv  |   | ND     | 1.3  | 0.20 | ug/m3 |
| 75-25-2    | 252.8 | Bromoform                    | ND     | 0.20 | 0.071 | ppbv  |   | ND     | 2.1  | 0.73 | ug/m3 |
| 74-83-9    | 94.94 | Bromomethane                 | ND     | 0.20 | 0.069 | ppbv  |   | ND     | 0.78 | 0.27 | ug/m3 |
| 593-60-2   | 106.9 | Bromoethene                  | ND     | 0.20 | 0.061 | ppbv  |   | ND     | 0.87 | 0.27 | ug/m3 |
| 100-44-7   | 126   | Benzyl Chloride <sup>a</sup> | ND     | 0.20 | 0.13  | ppbv  |   | ND     | 1.0  | 0.67 | ug/m3 |
| 75-15-0    | 76.14 | Carbon disulfide             | ND     | 0.20 | 0.045 | ppbv  |   | ND     | 0.62 | 0.14 | ug/m3 |
| 108-90-7   | 112.6 | Chlorobenzene                | ND     | 0.20 | 0.074 | ppbv  |   | ND     | 0.92 | 0.34 | ug/m3 |
| 75-00-3    | 64.52 | Chloroethane                 | ND     | 0.20 | 0.068 | ppbv  |   | ND     | 0.53 | 0.18 | ug/m3 |
| 67-66-3    | 119.4 | Chloroform                   | ND     | 0.20 | 0.037 | ppbv  |   | ND     | 0.98 | 0.18 | ug/m3 |
| 74-87-3    | 50.49 | Chloromethane                | 0.76   | 0.20 | 0.090 | ppbv  |   | 1.6    | 0.41 | 0.19 | ug/m3 |
| 107-05-1   | 76.53 | 3-Chloropropene              | ND     | 0.20 | 0.083 | ppbv  |   | ND     | 0.63 | 0.26 | ug/m3 |
| 95-49-8    | 126.6 | 2-Chlorotoluene              | ND     | 0.20 | 0.072 | ppbv  |   | ND     | 1.0  | 0.37 | ug/m3 |
| 56-23-5    | 153.8 | Carbon tetrachloride         | ND     | 0.20 | 0.040 | ppbv  |   | ND     | 1.3  | 0.25 | ug/m3 |
| 110-82-7   | 84.16 | Cyclohexane                  | ND     | 0.20 | 0.11  | ppbv  |   | ND     | 0.69 | 0.38 | ug/m3 |
| 75-34-3    | 98.96 | 1,1-Dichloroethane           | ND     | 0.20 | 0.057 | ppbv  |   | ND     | 0.81 | 0.23 | ug/m3 |
| 75-35-4    | 96.94 | 1,1-Dichloroethylene         | ND     | 0.20 | 0.059 | ppbv  |   | ND     | 0.79 | 0.23 | ug/m3 |
| 106-93-4   | 187.9 | 1,2-Dibromoethane (EDB)      | ND     | 0.20 | 0.097 | ppbv  |   | ND     | 1.5  | 0.75 | ug/m3 |
| 107-06-2   | 98.96 | 1,2-Dichloroethane           | ND     | 0.20 | 0.070 | ppbv  |   | ND     | 0.81 | 0.28 | ug/m3 |
| 78-87-5    | 113   | 1,2-Dichloropropane          | ND     | 0.20 | 0.062 | ppbv  |   | ND     | 0.92 | 0.29 | ug/m3 |
| 123-91-1   | 88.12 | 1,4-Dioxane                  | ND     | 0.20 | 0.12  | ppbv  |   | ND     | 0.72 | 0.43 | ug/m3 |
| 75-71-8    | 120.9 | Dichlorodifluoromethane      | 0.37   | 0.20 | 0.032 | ppbv  |   | 1.8    | 0.99 | 0.16 | ug/m3 |
| 124-48-1   | 208.3 | Dibromochloromethane         | ND     | 0.20 | 0.052 | ppbv  |   | ND     | 1.7  | 0.44 | ug/m3 |
| 156-60-5   | 96.94 | trans-1,2-Dichloroethylene   | ND     | 0.20 | 0.069 | ppbv  |   | ND     | 0.79 | 0.27 | ug/m3 |
| 156-59-2   | 96.94 | cis-1,2-Dichloroethylene     | ND     | 0.20 | 0.077 | ppbv  |   | ND     | 0.79 | 0.31 | ug/m3 |
| 10061-01-5 | 111   | cis-1,3-Dichloropropene      | ND     | 0.20 | 0.062 | ppbv  |   | ND     | 0.91 | 0.28 | ug/m3 |
| 541-73-1   | 147   | m-Dichlorobenzene            | ND     | 0.20 | 0.040 | ppbv  |   | ND     | 1.2  | 0.24 | ug/m3 |
| 95-50-1    | 147   | o-Dichlorobenzene            | ND     | 0.20 | 0.15  | ppbv  |   | ND     | 1.2  | 0.90 | ug/m3 |
| 106-46-7   | 147   | p-Dichlorobenzene            | ND     | 0.20 | 0.19  | ppbv  |   | ND     | 1.2  | 1.1  | ug/m3 |
| 10061-02-6 | 111   | trans-1,3-Dichloropropene    | ND     | 0.20 | 0.10  | ppbv  |   | ND     | 0.91 | 0.45 | ug/m3 |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                                         |                        |          |
|--------------------------|-----------------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | CAMS 702                                | <b>Date Sampled:</b>   | 03/02/23 |
| <b>Lab Sample ID:</b>    | JD61465-1                               | <b>Date Received:</b>  | 03/07/23 |
| <b>Matrix:</b>           | AIR - Ambient Air Comp. Summa ID: A2095 | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | TO-15                                   |                        |          |
| <b>Project:</b>          | Valero-CAMS, Baton Rouge, LA            |                        |          |

## VOA TO15 List

| CAS No.   | MW     | Compound                  | Result | RL    | MDL   | Units | Q | Result | RL   | MDL   | Units |
|-----------|--------|---------------------------|--------|-------|-------|-------|---|--------|------|-------|-------|
| 64-17-5   | 46.07  | Ethanol                   | 2.9    | 0.50  | 0.39  | ppbv  |   | 5.5    | 0.94 | 0.73  | ug/m3 |
| 100-41-4  | 106.2  | Ethylbenzene              | ND     | 0.20  | 0.061 | ppbv  |   | ND     | 0.87 | 0.26  | ug/m3 |
| 141-78-6  | 88     | Ethyl Acetate             | ND     | 0.20  | 0.10  | ppbv  |   | ND     | 0.72 | 0.36  | ug/m3 |
| 622-96-8  | 120.19 | 4-Ethyltoluene            | ND     | 0.20  | 0.095 | ppbv  |   | ND     | 0.98 | 0.47  | ug/m3 |
| 76-13-1   | 187.4  | Freon 113                 | ND     | 0.20  | 0.031 | ppbv  |   | ND     | 1.5  | 0.24  | ug/m3 |
| 76-14-2   | 170.9  | Freon 114                 | ND     | 0.20  | 0.050 | ppbv  |   | ND     | 1.4  | 0.35  | ug/m3 |
| 142-82-5  | 100.2  | Heptane                   | 0.14   | 0.20  | 0.092 | ppbv  | J | 0.57   | 0.82 | 0.38  | ug/m3 |
| 87-68-3   | 260.8  | Hexachlorobutadiene       | ND     | 0.20  | 0.062 | ppbv  |   | ND     | 2.1  | 0.66  | ug/m3 |
| 110-54-3  | 86.18  | Hexane                    | 0.16   | 0.20  | 0.11  | ppbv  | J | 0.56   | 0.70 | 0.39  | ug/m3 |
| 591-78-6  | 100    | 2-Hexanone                | ND     | 0.20  | 0.15  | ppbv  |   | ND     | 0.82 | 0.61  | ug/m3 |
| 67-63-0   | 60.1   | Isopropyl Alcohol         | 0.85   | 0.20  | 0.14  | ppbv  |   | 2.1    | 0.49 | 0.34  | ug/m3 |
| 75-09-2   | 84.94  | Methylene chloride        | 0.20   | 0.20  | 0.056 | ppbv  |   | 0.69   | 0.69 | 0.19  | ug/m3 |
| 78-93-3   | 72.11  | Methyl ethyl ketone       | 0.71   | 0.20  | 0.11  | ppbv  |   | 2.1    | 0.59 | 0.32  | ug/m3 |
| 108-10-1  | 100.2  | Methyl Isobutyl Ketone    | ND     | 0.20  | 0.073 | ppbv  |   | ND     | 0.82 | 0.30  | ug/m3 |
| 1634-04-4 | 88.15  | Methyl Tert Butyl Ether   | ND     | 0.20  | 0.080 | ppbv  |   | ND     | 0.72 | 0.29  | ug/m3 |
| 80-62-6   | 100.12 | Methylmethacrylate        | ND     | 0.20  | 0.070 | ppbv  |   | ND     | 0.82 | 0.29  | ug/m3 |
| 115-07-1  | 42     | Propylene                 | ND     | 0.50  | 0.14  | ppbv  |   | ND     | 0.86 | 0.24  | ug/m3 |
| 100-42-5  | 104.1  | Styrene                   | ND     | 0.20  | 0.12  | ppbv  |   | ND     | 0.85 | 0.51  | ug/m3 |
| 71-55-6   | 133.4  | 1,1,1-Trichloroethane     | ND     | 0.20  | 0.037 | ppbv  |   | ND     | 1.1  | 0.20  | ug/m3 |
| 79-34-5   | 167.85 | 1,1,2,2-Tetrachloroethane | ND     | 0.20  | 0.048 | ppbv  |   | ND     | 1.4  | 0.33  | ug/m3 |
| 79-00-5   | 133.4  | 1,1,2-Trichloroethane     | ND     | 0.20  | 0.038 | ppbv  |   | ND     | 1.1  | 0.21  | ug/m3 |
| 120-82-1  | 181.5  | 1,2,4-Trichlorobenzene    | ND     | 0.20  | 0.12  | ppbv  |   | ND     | 1.5  | 0.89  | ug/m3 |
| 95-63-6   | 120.19 | 1,2,4-Trimethylbenzene    | ND     | 0.20  | 0.087 | ppbv  |   | ND     | 0.98 | 0.43  | ug/m3 |
| 108-67-8  | 120.19 | 1,3,5-Trimethylbenzene    | ND     | 0.20  | 0.080 | ppbv  |   | ND     | 0.98 | 0.39  | ug/m3 |
| 540-84-1  | 114.2  | 2,2,4-Trimethylpentane    | 0.36   | 0.20  | 0.095 | ppbv  |   | 1.7    | 0.93 | 0.44  | ug/m3 |
| 75-65-0   | 74.12  | Tertiary Butyl Alcohol    | 0.12   | 0.20  | 0.093 | ppbv  | J | 0.36   | 0.61 | 0.28  | ug/m3 |
| 127-18-4  | 165.8  | Tetrachloroethylene       | ND     | 0.040 | 0.014 | ppbv  |   | ND     | 0.27 | 0.095 | ug/m3 |
| 109-99-9  | 72.11  | Tetrahydrofuran           | ND     | 0.20  | 0.090 | ppbv  |   | ND     | 0.59 | 0.27  | ug/m3 |
| 108-88-3  | 92.14  | Toluene                   | 0.25   | 0.20  | 0.057 | ppbv  |   | 0.94   | 0.75 | 0.21  | ug/m3 |
| 79-01-6   | 131.4  | Trichloroethylene         | ND     | 0.040 | 0.019 | ppbv  |   | ND     | 0.21 | 0.10  | ug/m3 |
| 75-69-4   | 137.4  | Trichlorofluoromethane    | 0.21   | 0.20  | 0.036 | ppbv  |   | 1.2    | 1.1  | 0.20  | ug/m3 |
| 75-01-4   | 62.5   | Vinyl chloride            | ND     | 0.20  | 0.069 | ppbv  |   | ND     | 0.51 | 0.18  | ug/m3 |
| 108-05-4  | 86     | Vinyl Acetate             | ND     | 0.20  | 0.11  | ppbv  |   | ND     | 0.70 | 0.39  | ug/m3 |
|           | 106.2  | m,p-Xylene                | 0.14   | 0.20  | 0.14  | ppbv  | J | 0.61   | 0.87 | 0.61  | ug/m3 |
| 95-47-6   | 106.2  | o-Xylene                  | ND     | 0.20  | 0.077 | ppbv  |   | ND     | 0.87 | 0.33  | ug/m3 |
| 1330-20-7 | 106.2  | Xylenes (total)           | 0.14   | 0.20  | 0.077 | ppbv  | J | 0.61   | 0.87 | 0.33  | ug/m3 |

| CAS No.  | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |
|----------|----------------------|--------|--------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 92%    |        | 65-128% |

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                              |                        |          |
|--------------------------|------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | CAMS 702                     | <b>Date Sampled:</b>   | 03/02/23 |
| <b>Lab Sample ID:</b>    | JD61465-1                    | <b>Date Received:</b>  | 03/07/23 |
| <b>Matrix:</b>           | AIR - Ambient Air Comp.      | <b>Summa ID:</b>       | A2095    |
| <b>Method:</b>           | TO-15                        | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | Valero-CAMS, Baton Rouge, LA |                        |          |

## VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---------|----|----------|--------|----|-----|-------|---|--------|----|-----|-------|
|---------|----|----------|--------|----|-----|-------|---|--------|----|-----|-------|

(a) Associated CCV outside of control limits low. This compound in blank spike is outside in house QC limits bias low.

ND = Not detected      MDL = Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Misc. Forms

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### Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log