

The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*  
*Automated Report*

## Technical Report for

### Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-001

SGS Job Number: JD65916

Sampling Date: 05/13/23

#### Report to:

Providence Engineering

1201 Main Street

Baton Rouge, LA 70802

brandonkilpatrick@providenceeng.com; kennethpaille@providenceeng.com

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.

A blue ink signature of David Chastain.

David Chastain  
General Manager

Client Service contact: Kristin Degraw 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

This report shall not be reproduced, except in its entirety, without the written approval of SGS.  
Test results relate only to samples analyzed.

# Table of Contents

-1-

<b>Section 1: Sample Summary</b> .....	<b>3</b>
<b>Section 2: Sample Results</b> .....	<b>4</b>
<b>2.1: JD65916-1: CAMS 714</b> .....	5
<b>Section 3: Misc. Forms</b> .....	<b>8</b>
<b>3.1: Chain of Custody</b> .....	9
<b>3.2: Summa Canister and Flow Controller Log</b> .....	11
<b>Section 4: MS Volatiles - QC Data Summaries</b> .....	<b>12</b>
<b>4.1: Method Blank Summary</b> .....	13
<b>4.2: Blank Spike/Blank Spike Duplicate Summary</b> .....	19
<b>4.3: Duplicate Summary</b> .....	25
<b>4.4: Summa Cleaning Certification</b> .....	28
<b>4.5: Instrument Performance Checks (BFB)</b> .....	31
<b>4.6: Surrogate Recovery Summaries</b> .....	35



## Sample Summary

Providence Engineering

Job No: JD65916

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

Sample Number	Collected Date	Time By	Matrix Received	Code Type	Client Sample ID
---------------	----------------	---------	-----------------	-----------	------------------

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

---

JD65916-1	05/13/23	07:00 BK	05/18/23	AIR	Ambient Air Comp.	CAMS 714
-----------	----------	----------	----------	-----	-------------------	----------

Sample Results

---

Report of Analysis

---

# Report of Analysis

<b>Client Sample ID:</b> CAMS 714		
<b>Lab Sample ID:</b> JD65916-1		<b>Date Sampled:</b> 05/13/23
<b>Matrix:</b> AIR - Ambient Air Comp. Summa ID: A1116		<b>Date Received:</b> 05/18/23
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<b>Project:</b> Valero-CAMS, Baton Rouge, LA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7W01805.D	1	05/19/23 21:43	TCH	n/a	n/a	V7W81
Run #2							

Run #	Initial Volume
Run #1	20.0 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)	31.6	4.0	2.9	ppbv		75.1	9.5	6.9	ug/m3
106-99-0	54.09	1,3-Butadiene	15.3	4.0	1.7	ppbv		33.8	8.8	3.8	ug/m3
71-43-2	78.11	Benzene	5.1	4.0	2.9	ppbv		16	13	9.3	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	4.0	0.60	ppbv		ND	27	4.0	ug/m3
75-25-2	252.8	Bromoform	ND	4.0	1.4	ppbv		ND	41	14	ug/m3
74-83-9	94.94	Bromomethane	ND	4.0	1.4	ppbv		ND	16	5.4	ug/m3
593-60-2	106.9	Bromoethene	ND	4.0	1.2	ppbv		ND	17	5.2	ug/m3
100-44-7	126	Benzyl Chloride	ND	4.0	2.5	ppbv		ND	21	13	ug/m3
75-15-0	76.14	Carbon disulfide	2.5	4.0	0.90	ppbv	J	7.8	12	2.8	ug/m3
108-90-7	112.6	Chlorobenzene	ND	4.0	1.5	ppbv		ND	18	6.9	ug/m3
75-00-3	64.52	Chloroethane	ND	4.0	1.4	ppbv		ND	11	3.7	ug/m3
67-66-3	119.4	Chloroform	ND	4.0	0.74	ppbv		ND	20	3.6	ug/m3
74-87-3	50.49	Chloromethane	ND	4.0	1.8	ppbv		ND	8.3	3.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	4.0	1.7	ppbv		ND	13	5.3	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	4.0	1.4	ppbv		ND	21	7.2	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	4.0	0.80	ppbv		ND	25	5.0	ug/m3
110-82-7	84.16	Cyclohexane	7.0	4.0	0.90	ppbv		24	14	3.1	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	4.0	1.1	ppbv		ND	16	4.5	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	4.0	1.2	ppbv		ND	16	4.8	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	4.0	0.60	ppbv		ND	31	4.6	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	4.0	1.4	ppbv		ND	16	5.7	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	4.0	1.2	ppbv		ND	18	5.5	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	4.0	2.3	ppbv		ND	14	8.3	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	4.0	2.1	ppbv		ND	20	10	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	4.0	1.0	ppbv		ND	34	8.5	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	4.0	0.56	ppbv		ND	16	2.2	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	4.0	0.60	ppbv		ND	16	2.4	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	4.0	1.2	ppbv		ND	18	5.4	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	4.0	0.80	ppbv		ND	24	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	4.0	1.4	ppbv		ND	24	8.4	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	4.0	1.6	ppbv		ND	24	9.6	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	4.0	2.0	ppbv		ND	18	9.1	ug/m3

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	CAMS 714	<b>Date Sampled:</b>	05/13/23
<b>Lab Sample ID:</b>	JD65916-1	<b>Date Received:</b>	05/18/23
<b>Matrix:</b>	AIR - Ambient Air Comp. Summa ID: A1116	<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	39.0	10	7.9	ppbv		73.5	19	15	ug/m3
100-41-4	106.2	Ethylbenzene	6.7	4.0	1.2	ppbv		29	17	5.2	ug/m3
141-78-6	88	Ethyl Acetate	298	4.0	2.1	ppbv		1070	14	7.6	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	4.0	1.9	ppbv		ND	20	9.3	ug/m3
76-13-1	187.4	Freon 113	ND	4.0	0.62	ppbv		ND	31	4.8	ug/m3
76-14-2	170.9	Freon 114	ND	4.0	1.0	ppbv		ND	28	7.0	ug/m3
142-82-5	100.2	Heptane	23.1	4.0	0.90	ppbv		94.7	16	3.7	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	4.0	1.2	ppbv		ND	43	13	ug/m3
110-54-3	86.18	Hexane	784	4.0	1.0	ppbv		2760	14	3.5	ug/m3
591-78-6	100	2-Hexanone	ND	4.0	2.9	ppbv		ND	16	12	ug/m3
67-63-0	60.1	Isopropyl Alcohol	11.0	4.0	2.8	ppbv		27.0	9.8	6.9	ug/m3
75-09-2	84.94	Methylene chloride	ND	4.0	1.1	ppbv		ND	14	3.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	8.0	4.0	2.2	ppbv		24	12	6.5	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	4.0	1.5	ppbv		ND	16	6.1	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	4.0	1.6	ppbv		ND	14	5.8	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	4.0	1.4	ppbv		ND	16	5.7	ug/m3
91-20-3	128.17	Naphthalene	ND	4.0	2.5	ppbv		ND	21	13	ug/m3
115-07-1	42	Propylene	ND	10	2.8	ppbv		ND	17	4.8	ug/m3
100-42-5	104.1	Styrene	ND	4.0	1.1	ppbv		ND	17	4.7	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	4.0	0.74	ppbv		ND	22	4.0	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	4.0	0.96	ppbv		ND	27	6.6	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	4.0	0.76	ppbv		ND	22	4.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	4.0	2.4	ppbv		ND	30	18	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	4.0	1.7	ppbv		ND	20	8.4	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	4.0	1.6	ppbv		ND	20	7.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	4.0	0.80	ppbv		ND	19	3.7	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	3.1	4.0	1.9	ppbv	J	9.4	12	5.8	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.80	0.28	ppbv		ND	5.4	1.9	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	4.0	1.8	ppbv		ND	12	5.3	ug/m3
108-88-3	92.14	Toluene	27.9	4.0	1.1	ppbv		105	15	4.1	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.80	0.38	ppbv		ND	4.3	2.0	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	4.0	3.1	ppbv		ND	22	17	ug/m3
75-01-4	62.5	Vinyl chloride	ND	4.0	1.4	ppbv		ND	10	3.6	ug/m3
108-05-4	86	Vinyl Acetate	ND	4.0	2.2	ppbv		ND	14	7.7	ug/m3
	106.2	m,p-Xylene	25.1	4.0	2.8	ppbv		109	17	12	ug/m3
95-47-6	106.2	o-Xylene	11.8	4.0	1.5	ppbv		51.3	17	6.5	ug/m3
1330-20-7	106.2	Xylenes (total)	37.0	4.0	1.5	ppbv		160	17	6.5	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 714		<b>Date Sampled:</b> 05/13/23
<b>Lab Sample ID:</b> JD65916-1		<b>Date Received:</b> 05/18/23
<b>Matrix:</b> AIR - Ambient Air Comp. Summa ID: A1116		<b>Percent Solids:</b> n/a
<b>Method:</b> TO-15		
<b>Project:</b> Valero-CAMS, Baton Rouge, LA		

**VOA TO15 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		65-128%

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Misc. Forms

---

### Custody Documents and Other Forms

---

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log





CHAIN OF CUSTODY - AIR

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499
www.sgs.com/ehsusa

FED Ex Tracking # 772E4606873K2W-092623-97
Batch Order Control #
SGS Quote #
SGS Job # JD65916

Client / Reporting Information, Project Information, Weather Parameters, Requested Analysis, Supplier Name(s)

Table with columns: Lab Sample #, Field ID / Point of Collection, Air Type, Sampling Equipment Info, Start Sampling Information, Stop Sampling Information, Comments / Remarks

Turnaround Time (Business Days), Data Deliverable Information, Comments / Remarks

Table with columns: Relinquished by Laboratory, Date / Time, Received By, Relinquished By, Date / Time, Received By

http://www.sgs.com/en/terms-and-conditions

Initial Assessment AL3B
Label Verifier

EHSA-QAC-0022-01-FORM-Dayton-Air COC
Rev.date:1/15/2021

