

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

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Automated Report

Technical Report for

Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-001

SGS Job Number: JD41257

Sampling Date: 03/07/22

Report to:

Providence Engineering

kevincalhoun@providenceeng.com

ATTN: Kevin Calhoun

Total number of pages in report: 12



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 handwritten signature in black ink, appearing to read 'Mike Earp'.

Mike Earp
General Manager

Client Service contact: Jadon Schiller 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, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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-

Section 1: Sample Summary	3
Section 2: Sample Results	4
2.1: JD41257-1: CAMS 642	5
Section 3: Misc. Forms	8
3.1: Chain of Custody	9
3.2: Summa Canister and Flow Controller Log	12

1

2

3



Sample Summary

Providence Engineering

Job No: JD41257

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

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JD41257-1	03/07/22	09:30	CG	03/12/22	AIR	Ambient Air Comp.	CAMS 642
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Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	CAMS 642	Date Sampled:	03/07/22
Lab Sample ID:	JD41257-1	Date Received:	03/12/22
Matrix:	AIR - Ambient Air Comp. Summa ID: A295	Percent Solids:	n/a
Method:	TO-15		
Project:	Valero-CAMS, Baton Rouge, LA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W48909.D	1	04/02/22 18:38	TCH	n/a	n/a	V5W2023
Run #2							

Run #	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)	7.1	0.20	0.15	ppbv		17	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	0.30	0.20	0.062	ppbv		0.96	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 ^a	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	0.37	0.20	0.13	ppbv		1.9	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 ^b	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	0.44	0.20	0.090	ppbv		0.91	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	1.2	0.20	0.11	ppbv		4.1	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	0.25	0.20	0.032	ppbv		1.2	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

Client Sample ID:	CAMS 642	Date Sampled:	03/07/22
Lab Sample ID:	JD41257-1	Date Received:	03/12/22
Matrix:	AIR - Ambient Air Comp. Summa ID: A295	Percent Solids:	n/a
Method:	TO-15		
Project:	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	6.8	0.50	0.39	ppbv		13	0.94	0.73	ug/m3
100-41-4	106.2	Ethylbenzene	0.15	0.20	0.061	ppbv	J	0.65	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	0.15	0.20	0.095	ppbv	J	0.74	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	0.59	0.20	0.092	ppbv		2.4	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	1.8	0.20	0.11	ppbv		6.3	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	0.65	0.20	0.14	ppbv		1.6	0.49	0.34	ug/m3
75-09-2	84.94	Methylene chloride	0.37	0.20	0.056	ppbv		1.3	0.69	0.19	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.8	0.20	0.11	ppbv		5.3	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	0.17	0.20	0.087	ppbv	J	0.84	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	3.9	0.20	0.095	ppbv		18	0.93	0.44	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	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	0.52	0.20	0.057	ppbv		2.0	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	0.22	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	0.42	0.20	0.14	ppbv		1.8	0.87	0.61	ug/m3
95-47-6	106.2	o-Xylene	0.16	0.20	0.077	ppbv	J	0.69	0.87	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	0.58	0.20	0.077	ppbv		2.5	0.87	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		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

Report of Analysis

Client Sample ID: CAMS 642		
Lab Sample ID: JD41257-1		Date Sampled: 03/07/22
Matrix: AIR - Ambient Air Comp. Summa ID: A295		Date Received: 03/12/22
Method: TO-15		Percent Solids: n/a
Project: Valero-CAMS, Baton Rouge, LA		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
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- (a) Associated CCV outside of control limits low. This compound in blank spike is outside in house QC limits bias low.
- (b) This compound in blank spike is outside in house QC limits bias low.

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



Air

AIR CHAIN OF CUSTODY

7762 2806 6867 PAGE 4 OF 4

PW

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

FED-EX Tracking #	Bottle Order Control # JS-001180-37
SGS Quote #	SGS Job # JD41257
Requested Analysis	
Temperature (Fahrenheit)	
Start:	Maximum:
Stop:	Minimum:
Atmospheric Pressure (inches of Hg)	
Start:	Maximum:
Stop:	Minimum:
Other weather comment:	

Client / Reporting Information		Project Information		Weather Parameters		Requested Analysis	
Company Name: Prudence Engineering		Project Name: John R. King		Temperature (Fahrenheit)			
Address: 2201 Main Street		Street:		Start:	Maximum:		
City: Boston	State: MA	Zip: 70302		Stop:	Minimum:		
Project Contact: Brendan Kipatich	E-mail: brendankipatich@prudenceeng.com	City: Mesa	State: CA	Atmospheric Pressure (inches of Hg)			
Phone #: 257667400	Fax #:	Project #: 712-001		Start:	Maximum:		
Sampler(s) Name(s): Chris Grant		Client Purchase Order #:		Stop:	Minimum:		

Lab Sample #	Field ID / Point of Collection	Air Type			Sampling Equipment Info				Start Sampling Information					Stop Sampling Information				
		Indoor (I)	Soil Vap (SV)	Ambient (A)	Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Date	Time (24hr clock)	Canister Pressure (*Hg)	Interior Temp (F)	Sampler Init.	Date	Time (24hr clock)	Canister Pressure (*Hg)	Interior Temp (F)	Sampler Init.	
C	Cans C642	A			A215	6L	537	3-6-22	9:30	30	76	ATG	3-7	0930	5	77	W	

Turnaround Time (Business days)		Data Deliverable Information		Comments / Remarks	
<input checked="" type="checkbox"/> Standard - 15 Days	Approved By: _____	All NJDEP TO-15 is mandatory Full T1		Sample inventory is verified upon receipt in the Laboratory	
<input type="checkbox"/> 10 Day	Date: _____	Comm A	_____		
<input type="checkbox"/> 5 Day		Comm B	_____		
<input type="checkbox"/> 3 Day		Reduced T2	_____		
<input type="checkbox"/> 2 Day		Full T1	_____		
<input type="checkbox"/> 1 Day		Other:	_____		
<input type="checkbox"/> Other		DKQP reporting	_____		

Sample Custody must be documented below each time samples change possession, including courier delivery.			
Relinquished by Laboratory: 1. W.T.	Date Time: 3/4/22 10:30	Received By: [Signature]	Received By: [Signature]
Relinquished by: 3 Fed Ex	Date Time: 3/12/22 11:45	Received By: [Signature]	Received By: 2 Fed Ex
Relinquished by: 5	Date Time:	Received By:	Received By: 4
		Received by:	Custody Seal #

Form:SM088-03D (revised 2-12-18)

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

JD41257: Chain of Custody

Page 1 of 3



SGS Sample Receipt Summary

Job Number: JD41257

Client: PROVIDENCE ENG

Project: PROVIDENCE - CAMS

Date / Time Received: 3/12/2022 11:45:00 AM

Delivery Method: Fed Ex

Airbill #'s: 7762 2806 6863

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

Cooler Security

- | | |
|--|---|
| 1. Custody Seals Present: <input checked="" type="checkbox"/> <input type="checkbox"/> | 3. COC Present: <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 2. Custody Seals Intact: <input checked="" type="checkbox"/> <input type="checkbox"/> | 4. Smpl Dates/Time OK: <input checked="" type="checkbox"/> <input type="checkbox"/> |

Cooler Temperature

- | | |
|--|---------------|
| 1. Temp criteria achieved: <input type="checkbox"/> <input type="checkbox"/> | <u>Y or N</u> |
| 2. Cooler temp verification: _____ | N/A |
| 3. Cooler media: _____ | N/A |
| 4. No. Coolers: _____ | N/A |

Quality Control Preservation

- | | | | |
|---------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Integrity - Documentation

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

- | | | | |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 2. Bottles received for unspecified tests: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Test Strip Lot #s:	pH 1-12: 231619	pH 12+: 203117A	Other: (Specify) _____
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Comments: -1 No analysis marked on COC. Please verify analysis.

SM089-02 Rev. Date 12/1/16

Please run for VTO15STD

JD41257: Chain of Custody

Page 3 of 3

Summa Canister and Flow Controller Log

Job Number: JD41257
Account: PROVLABR Providence Engineering
Project: Valero-CAMS, Baton Rouge, LA
Received: 03/12/22

32
3

SUMMA CANISTERS													
Shipping						Receiving							
Summa ID	Vac L	Date " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A295	6	29.4	02/14/22	WC	CP11531	5W4777.D	JD41257-1	03/17/22	MJ	5			1

SGS Bottle Order(s):
 JS-021122-37

Prep Date **Room Temp(F)** **Bar Pres "Hg**
 02/14/22 70 29.92