

**Technical Report for**

**Providence Engineering**

Valero-CAMS, Baton Rouge, LA

712-001

Accutest Job Number: JB92844

Sampling Date: 04/17/15

**Report to:**

Providence Engineering

kevincalhoun@providenceeng.com

ATTN: Kevin Calhoun

Total number of pages in report: **10**



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.

*Nancy F. Cole*

**Nancy Cole**  
Laboratory Director

**Client Service contact: Victoria Pushkova 732-329-0200**

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

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Test results relate only to samples analyzed.

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## Sample Summary

**Providence Engineering**

**Job No: JB92844**

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

Sample Number	Collected		Matrix			Client Sample ID
	Date	Time By	Received	Code	Type	
JB92844-1	04/17/15	13:00 KH	04/21/15	AIR	Ambient Air Grab	CAMS 223

**Sample Results**

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**Report of Analysis**

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## Report of Analysis

Client Sample ID:	CAMS 223	Date Sampled:	04/17/15
Lab Sample ID:	JB92844-1	Date Received:	04/21/15
Matrix:	AIR - Ambient Air Grab Summa ID: A708	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	W51034.D	1	04/22/15	ML	n/a	n/a	VW2038
Run #2							

Run #	Initial Volume
Run #1	100 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	20.7	0.80	0.13	ppbv		49.2	1.9	0.31	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.12	ppbv		ND	1.8	0.27	ug/m3
71-43-2	78.11	Benzene	1.4	0.80	0.12	ppbv		4.5	2.6	0.38	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.13	ppbv		ND	5.4	0.87	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.082	ppbv		ND	8.3	0.85	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.087	ppbv		ND	3.1	0.34	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.081	ppbv		ND	3.5	0.35	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.10	ppbv		ND	4.1	0.52	ug/m3
75-15-0	76.14	Carbon disulfide	0.54	0.80	0.11	ppbv	J	1.7	2.5	0.34	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.13	ppbv		ND	3.7	0.60	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.086	ppbv		ND	2.1	0.23	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.12	ppbv		ND	3.9	0.59	ug/m3
74-87-3	50.49	Chloromethane	3.0	0.80	0.12	ppbv		6.2	1.7	0.25	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.11	ppbv		ND	2.5	0.34	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.13	ppbv		ND	4.1	0.67	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.098	ppbv		ND	5.0	0.62	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.13	ppbv		ND	2.8	0.45	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.12	ppbv		ND	3.2	0.49	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.14	ppbv		ND	6.1	1.1	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.10	ppbv		ND	3.2	0.40	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.20	ppbv		ND	3.7	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.25	ppbv		ND	2.9	0.90	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	1.8	0.80	0.15	ppbv		8.9	4.0	0.74	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.17	ppbv		ND	6.8	1.4	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.081	ppbv		ND	3.2	0.32	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.099	ppbv		ND	3.2	0.39	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.14	ppbv		ND	3.6	0.64	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	0.66	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.12	ppbv		ND	4.8	0.72	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.077	ppbv		ND	4.8	0.46	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.082	ppbv		ND	3.6	0.37	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 223	Date Sampled:	04/17/15
Lab Sample ID:	JB92844-1	Date Received:	04/21/15
Matrix:	AIR - Ambient Air Grab Summa ID: A708	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	11.7	2.0	0.66	ppbv		22.0	3.8	1.2	ug/m3
100-41-4	106.2	Ethylbenzene	0.71	0.80	0.19	ppbv	J	3.1	3.5	0.83	ug/m3
141-78-6	88	Ethyl Acetate	2.8	0.80	0.25	ppbv		10	2.9	0.90	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.46	0.80	0.088	ppbv	J	2.3	3.9	0.43	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.11	ppbv		ND	6.1	0.84	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.10	ppbv		ND	5.6	0.70	ug/m3
142-82-5	100.2	Heptane	3.3	0.80	0.12	ppbv		14	3.3	0.49	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.13	ppbv		ND	8.5	1.4	ug/m3
110-54-3	86.17	Hexane	15.2	0.80	0.11	ppbv		53.6	2.8	0.39	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.18	ppbv		ND	3.3	0.74	ug/m3
67-63-0	60.1	Isopropyl Alcohol	3.2	0.80	0.48	ppbv		7.9	2.0	1.2	ug/m3
75-09-2	84.94	Methylene chloride	1.5	0.80	0.54	ppbv		5.2	2.8	1.9	ug/m3
78-93-3	72.11	Methyl ethyl ketone	2.1	0.80	0.19	ppbv		6.2	2.4	0.56	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.65	0.80	0.11	ppbv	J	2.7	3.3	0.45	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.10	ppbv		ND	2.9	0.36	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.12	ppbv		ND	3.3	0.49	ug/m3
115-07-1	42	Propylene	ND	2.0	0.32	ppbv		ND	3.4	0.55	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.10	ppbv		ND	3.4	0.43	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.13	ppbv		ND	4.4	0.71	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.12	ppbv		ND	5.5	0.82	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.14	ppbv		ND	4.4	0.76	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.18	ppbv		ND	5.9	1.3	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	1.2	0.80	0.092	ppbv		5.9	3.9	0.45	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.80	0.12	ppbv		ND	3.9	0.59	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	2.7	0.80	0.085	ppbv		13	3.7	0.40	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	1.5	0.80	0.20	ppbv		4.5	2.4	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.16	0.095	ppbv		ND	1.1	0.64	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.17	ppbv		ND	2.4	0.50	ug/m3
108-88-3	92.14	Toluene	5.0	0.80	0.081	ppbv		19	3.0	0.31	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.10	ppbv		ND	0.86	0.54	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.83	0.80	0.081	ppbv		4.7	4.5	0.46	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.13	ppbv		ND	2.0	0.33	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.22	ppbv		ND	2.8	0.77	ug/m3
	106.2	m,p-Xylene	3.2	0.80	0.17	ppbv		14	3.5	0.74	ug/m3
95-47-6	106.2	o-Xylene	1.3	0.80	0.10	ppbv		5.6	3.5	0.43	ug/m3
1330-20-7	106.2	Xylenes (total)	4.6	0.80	0.10	ppbv		20	3.5	0.43	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		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

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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



# CHAIN OF CUSTODY

## Air Sampling Field Data Sheet

FED-EX Tracking #  
6250-6352 4613

Bottle Order Control #

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Lab Quote #

Lab Job #  
JB92844

Company Name: <b>PROVIDENCE ENV</b>				Project Name: <b>VALUUE REFERRING</b>				Weather Parameters				Requested Analysis					
Address: <b>1211 MARSH ST</b>				Street: <b>VALUUE REFERRING</b>				Temperature (Fahrenheit)				Standard TO-15 Reporting List					
City: <b>Meriden</b>		State: <b>CT</b>		City: <b>MERIDEN</b>		State: <b>CT</b>		Start: _____ Maximum: _____									
Project Contact: <b>Paul Holley</b>		Email: <b>PAUL.HOLLEY@PROVIDENCEENV.COM</b>		Project #: <b>712-001</b>		Client Purchase Order #		Stop: _____ Minimum: _____									
Phone #: <b>203-766-7400</b>		Fax #: <b>203-766-7440</b>		Project #		Client Purchase Order #		Atmospheric Pressure (inches of Hg)									
Sampler(s) Name(s): <b>12 LINDSON</b>		Other weather comment:		Project #		Client Purchase Order #		Start: _____ Maximum: _____									
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.		
1	CAMS 223	A	6495	6L	---	4-16	1300	0.01	75	KH	4-17	1300	11.38	75	KH	✓	
Turnaround Time (Business days)		Approved By: _____			Data Deliverable Information			Comments / Remarks									
Standard - 15 Days		Date: _____			All NJDEP TO-15 is mandatory Full T1			INITIAL ASSESSMENT <i>[Signature]</i>									
10 Day					Comm A			LABEL VERIFICATION <i>[Signature]</i>									
5 Day					Comm B												
3 Day					Reduced T2												
2 Day					Full T1												
1 Day					Other:												
Other																	
Sample Custody must be documented below each time samples change possession, including courier delivery.																	
Relinquished by Laboratory: 1	Date Time: _____	Received By: <i>[Signature]</i>	Relinquished By: <i>[Signature]</i>	Date Time: _____	Received By: <i>[Signature]</i>	Relinquished by: 2	Date Time: _____	Received By: <i>[Signature]</i>	Relinquished By: <i>[Signature]</i>	Date Time: _____	Received By: <i>[Signature]</i>	Relinquished by: 3	Date Time: _____	Received By: <i>[Signature]</i>	Relinquished By: <i>[Signature]</i>	Date Time: _____	Received By: <i>[Signature]</i>
Relinquished by: <i>FED EX</i>	Date Time: <i>9:10 4-21-15</i>	Received By: <i>[Signature]</i>	Relinquished By: <i>[Signature]</i>	Date Time: _____	Received By: <i>[Signature]</i>	Relinquished by: 4	Date Time: _____	Received By: <i>[Signature]</i>	Relinquished By: <i>[Signature]</i>	Date Time: _____	Received By: <i>[Signature]</i>	Relinquished by: 5	Date Time: _____	Received By: <i>[Signature]</i>	Relinquished By: <i>[Signature]</i>	Date Time: _____	Received By: <i>[Signature]</i>
Relinquished by: _____	Date Time: _____	Received By: _____	Relinquished By: _____	Date Time: _____	Received By: _____	Custody Seal # <i>316 127HT</i>											

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JB92844: Chain of Custody

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Accutest Job Number: JB92844      Client: \_\_\_\_\_      Project: \_\_\_\_\_

Date / Time Received: 4/21/2015 9:10:00 AM      Delivery Method: \_\_\_\_\_      Airbill #'s: \_\_\_\_\_

**Cooler Temps (Initial/Adjusted):**

<u>Cooler Security</u>	<u>Y or N</u>		<u>Y or N</u>	
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"/>

<u>Cooler Temperature</u>	<u>Y or N</u>	
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Cooler temp verification:	_____	
3. Cooler media:	_____	
4. No. Coolers:	0	

<u>Quality Control Preservation</u>	<u>Y or N</u>		<u>N/A</u>
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"/>

<u>Sample Integrity - Documentation</u>	<u>Y or N</u>	
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"/>

<u>Sample Integrity - Condition</u>	<u>Y or N</u>	
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	

<u>Sample Integrity - Instructions</u>	<u>Y or N</u>		<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>	<input 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"/>

Comments

# Summa Canister and Flow Controller Log

**Job Number:** JB92844  
**Account:** PROVLABR Providence Engineering  
**Project:** Valero-CAMS, Baton Rouge, LA  
**Received:** 04/21/15

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SUMMA CANISTERS													
Shipping							Receiving						
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A708	6	29.4	03/26/15	RD	CP7639	5W10492.D	JB92844-1	04/21/15	RD	6.5			1

**Accutest Bottle Order(s):**  
 VP-3/26/2015-14

**Prep Date**      **Room Temp(F)**      **Bar Pres "Hg**  
 03/26/15      70      29.92