

**Technical Report for**

**Providence Engineering**

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

**712-001**

**Accutest Job Number: JB66175**

**Sampling Date: 04/28/14**

**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), 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: JB66175**

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

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB66175-1	04/28/14	13:00 KH	05/05/14	AIR	Ambient Air Grab	CAMS 164

**Sample Results**

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**Report of Analysis**

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## Report of Analysis

Client Sample ID:	CAMS 164	Date Sampled:	04/28/14
Lab Sample ID:	JB66175-1	Date Received:	05/05/14
Matrix:	AIR - Ambient Air Grab	Summa ID:	A665
Method:	TO-15	Percent Solids:	n/a
Project:	Valero-CAMS, Baton Rouge, LA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W40790.D	1	05/06/14	YMH	n/a	n/a	V3W1545
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	6.5	0.20	0.034	ppbv		15	0.48	0.081	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.020	ppbv		ND	0.44	0.044	ug/m3
71-43-2	78.11	Benzene	0.32	0.20	0.021	ppbv		1.0	0.64	0.067	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.025	ppbv		ND	1.3	0.17	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.022	ppbv		ND	2.1	0.23	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.017	ppbv		ND	0.78	0.066	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.014	ppbv		ND	0.87	0.061	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.025	ppbv		ND	1.0	0.13	ug/m3
75-15-0	76.14	Carbon disulfide	0.20	0.20	0.017	ppbv		0.62	0.62	0.053	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.025	ppbv		ND	0.92	0.12	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.020	ppbv		ND	0.53	0.053	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.019	ppbv		ND	0.98	0.093	ug/m3
74-87-3	50.49	Chloromethane	0.88	0.20	0.034	ppbv		1.8	0.41	0.070	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.028	ppbv		ND	0.63	0.088	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.020	ppbv		ND	1.0	0.10	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.11	0.20	0.011	ppbv	J	0.69	1.3	0.069	ug/m3
110-82-7	84.16	Cyclohexane	0.18	0.20	0.058	ppbv	J	0.62	0.69	0.20	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.016	ppbv		ND	0.81	0.065	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.021	ppbv		ND	0.79	0.083	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	0.21	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.016	ppbv		ND	0.81	0.065	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.040	ppbv		ND	0.92	0.18	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.060	ppbv		ND	0.72	0.22	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.67	0.20	0.015	ppbv		3.3	0.99	0.074	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.029	ppbv		ND	1.7	0.25	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.015	ppbv		ND	0.79	0.059	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	0.11	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	0.086	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	0.15	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.029	ppbv		ND	1.2	0.17	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.022	ppbv		ND	1.2	0.13	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.021	ppbv		ND	0.91	0.095	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 164	Date Sampled:	04/28/14
Lab Sample ID:	JB66175-1	Date Received:	05/05/14
Matrix:	AIR - Ambient Air Grab Summa ID: A665	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	5.0	0.50	0.19	ppbv		9.4	0.94	0.36	ug/m3
100-41-4	106.2	Ethylbenzene	0.10	0.20	0.020	ppbv	J	0.43	0.87	0.087	ug/m3
141-78-6	88	Ethyl Acetate	1.2	0.20	0.057	ppbv		4.3	0.72	0.21	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.015	ppbv		ND	0.98	0.074	ug/m3
76-13-1	187.4	Freon 113	0.28	0.20	0.021	ppbv		2.1	1.5	0.16	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.021	ppbv		ND	1.4	0.15	ug/m3
142-82-5	100.2	Heptane	0.33	0.20	0.020	ppbv		1.4	0.82	0.082	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.063	ppbv		ND	2.1	0.67	ug/m3
110-54-3	86.17	Hexane	0.93	0.20	0.016	ppbv		3.3	0.70	0.056	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.025	ppbv		ND	0.82	0.10	ug/m3
67-63-0	60.1	Isopropyl Alcohol	1.1	0.20	0.039	ppbv		2.7	0.49	0.096	ug/m3
75-09-2	84.94	Methylene chloride	1.1	0.20	0.047	ppbv		3.8	0.69	0.16	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.75	0.20	0.058	ppbv		2.2	0.59	0.17	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.029	ppbv		ND	0.82	0.12	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.017	ppbv		ND	0.72	0.061	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.040	ppbv		ND	0.82	0.16	ug/m3
115-07-1	42	Propylene	4.6	0.50	0.031	ppbv		7.9	0.86	0.053	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.020	ppbv		ND	0.85	0.085	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.016	ppbv		ND	1.1	0.087	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	0.21	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.031	ppbv		ND	1.1	0.17	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.079	ppbv		ND	1.5	0.59	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.19	0.20	0.017	ppbv	J	0.93	0.98	0.084	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.015	ppbv		ND	0.98	0.074	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.20	0.20	0.021	ppbv		0.93	0.93	0.098	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.39	0.20	0.044	ppbv		1.2	0.61	0.13	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.15	0.040	0.029	ppbv		1.0	0.27	0.20	ug/m3
109-99-9	72.11	Tetrahydrofuran	0.19	0.20	0.045	ppbv	J	0.56	0.59	0.13	ug/m3
108-88-3	92.14	Toluene	0.69	0.20	0.020	ppbv		2.6	0.75	0.075	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	0.32	0.20	0.014	ppbv		1.8	1.1	0.079	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.017	ppbv		ND	0.51	0.043	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.058	ppbv		ND	0.70	0.20	ug/m3
	106.2	m,p-Xylene	0.35	0.20	0.032	ppbv		1.5	0.87	0.14	ug/m3
95-47-6	106.2	o-Xylene	0.15	0.20	0.019	ppbv	J	0.65	0.87	0.083	ug/m3
1330-20-7	106.2	Xylenes (total)	0.50	0.20	0.019	ppbv		2.2	0.87	0.083	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	86%		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

## 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

AK



2235 US Highway 130, Dayton, NJ 08810  
 V: 732.329.0200 F: 732.329.3499 www.accutest.com

FED-EX Tracking #  
 7987-2270 3099  
 Lab Quote #

Bottle Order Control #

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Lab Quote #  
 JB66175

Client/Reporting Information		Project Information		Weather Parameters		Requested Analysis	
Company Name: Providence Engr		Project Name: Valero Refining		Temperature (Fahrenheit)			
Address: 1201 Main St		Street:		Start:	Maximum:		
City: BRL State: CA Zip: 70802		City: Meraux State: LA		Stop:	Minimum:		
Project Contact: Paul Hollis @ prov.dence.engr.com		Project #: 712-001		Atmospheric Pressure (inches of Hg)			
Phone #: 225 766-7400 Fax #: -7440		Client Purchase Order #		Start:	Maximum:		
Sampler(s) Name(s): Karen Husson				Stop:	Minimum:		
Other weather comment:							

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 164	A	A6656L	6L	-	4-27	1300	0.17	75	KA	4-28	1300	11.65	75	1C4	✓
<i>(Remaining rows are crossed out with a large diagonal line)</i>																

Turnaround Time (Business days)		Approved By:		Data Deliverable Information		Comments / Remarks	
Standard - 15 Days	<input checked="" type="checkbox"/>	Approved By: _____ Date: _____		All NJDEP TO-15 is mandatory Full T1		SOHNA Received at Baton Rouge Service Center	
10 Day	<input type="checkbox"/>			Comm A			
5 Day	<input type="checkbox"/>			Comm B			
3 Day	<input type="checkbox"/>			Reduced T2			
2 Day	<input type="checkbox"/>			Full T1			
1 Day	<input type="checkbox"/>	Other:					

Sample Custody must be documented below each time samples change possession, including courier delivery.							
Relinquished by Laboratory:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	Relinquished by:	Date Time:
1		<i>[Signature]</i>	2	5/11/14 11:45	<i>[Signature]</i>	3	5-5-14 920
3		<i>[Signature]</i>	4	FEB 14	<i>[Signature]</i>	5	
5		<i>[Signature]</i>	Custody Seal #				

CAMS

BL

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**Accutest Job Number:** JB66175      **Client:** \_\_\_\_\_      **Project:** \_\_\_\_\_  
**Date / Time Received:** 5/5/2014      **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</u>	<u>or</u>	<u>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</u>	<u>or</u>	<u>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:** JB66175  
**Account:** PROVLABR Providence Engineering  
**Project:** Valero-CAMS, Baton Rouge, LA  
**Received:** 05/05/14

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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
A665	6	29.4	03/15/14	ML	CP6879	5W3291.D	JB66175-1	05/05/14	RC	6			1

**Accutest Bottle Order(s):**  
 VP-3/13/2014-4

**Prep Date**      **Room Temp(F)**      **Bar Pres "Hg**  
 03/15/14          70                                  29.92