

## Technical Report for

### Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-001

Accutest Job Number: JB21439

Sampling Date: 11/12/12

#### 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 Conference and/or state specific certification programs as applicable.



**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

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Test results relate only to samples analyzed.

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## Sample Summary

**Providence Engineering**

**Job No: JB21439**

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

Sample Number	Collected		Matrix			Client Sample ID
	Date	Time By	Received	Code	Type	
JB21439-1	11/12/12	13:00 KH	11/16/12	AIR	Ambient Air Grab	CAMS 075

**Sample Results**

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**Report of Analysis**

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## Report of Analysis

Client Sample ID:	CAMS 075	Date Sampled:	11/12/12
Lab Sample ID:	JB21439-1	Date Received:	11/16/12
Matrix:	AIR - Ambient Air Grab Summa ID: A732	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	2W36675.D	1	11/20/12	YMH	n/a	n/a	V2W1536
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	Units
67-64-1	58.08	Acetone	ND	0.20	0.069	ppbv		ND	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.026	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.36	0.20	0.029	ppbv		1.2	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.031	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.029	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.027	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.048	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	0.23	0.20	0.024	ppbv		0.72	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.040	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.035	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.026	ppbv		ND	0.98	ug/m3
74-87-3	50.49	Chloromethane	0.49	0.20	0.055	ppbv		1.0	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.035	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.020	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	0.49	0.20	0.050	ppbv		1.7	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.019	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.023	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.029	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.027	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.034	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.43	0.20	0.024	ppbv		2.1	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.035	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.027	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.025	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.033	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.028	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.039	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.060	ppbv		ND	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.024	ppbv		ND	0.91	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

Page 2 of 2

Client Sample ID:	CAMS 075	Date Sampled:	11/12/12
Lab Sample ID:	JB21439-1	Date Received:	11/16/12
Matrix:	AIR - Ambient Air Grab	Summa ID:	A732
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	Units
64-17-5	46.07	Ethanol	1.5	0.50	0.17	ppbv		2.8	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.38	0.20	0.029	ppbv		1.7	0.87	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.20	0.13	ppbv		ND	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.19	0.20	0.028	ppbv	J	0.93	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.028	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.023	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	1.0	0.20	0.028	ppbv		4.1	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.030	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	1.8	0.20	0.050	ppbv		6.3	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.051	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.27	0.20	0.065	ppbv		0.66	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.24	0.20	0.055	ppbv		0.83	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.31	0.20	0.042	ppbv		0.91	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.084	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.045	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.038	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	ND	0.50	0.034	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.025	ppbv		ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.024	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.034	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.035	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.095	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.46	0.20	0.029	ppbv		2.3	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.14	0.20	0.044	ppbv	J	0.69	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.63	0.20	0.031	ppbv		2.9	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.049	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.024	ppbv		ND	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.074	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	1.7	0.20	0.032	ppbv		6.4	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.036	ppbv		ND	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.21	0.20	0.028	ppbv		1.2	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.022	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.054	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	1.3	0.20	0.058	ppbv		5.6	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.59	0.20	0.037	ppbv		2.6	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	1.8	0.20	0.037	ppbv		7.8	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	85%		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

FED-EX Tracking #  
 5005 2654 4980  
 Lab Queue #

Event/Control #  
 V10-10/12/2012-3  
 Lab Job #  
 JB21439

PAGE 1 OF 1

Company Name: Providence Engr				Project Name: Valero Refining				Weather Parameters				Requested Analysis					
Address: 1201 Main St				Street				Start:		Maximum:		Standard TO-15 Reporting List					
City: BR		State: LA Zip: 70802		City: Meroux		State: LA		Stop:		Minimum:							
Project Contact: paul.hollis@providenceeng.com				Project # 712-001				Atmospheric Pressure (inches of Hg)									
Phone # 225 766 7400		Fax # 7440		Client Purchase Order #				Start:		Maximum:							
Sampler Name(s): Karen Hudson				Other weather comment:				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.		
1	CAMS 075	A	A732	6L	-	11-11	1300	0.05	75	KH	11-12	1300	11.43	75	KH	<input checked="" type="checkbox"/>	
		Turnaround Time (Business days)		Approved By: _____				Data Deliverable Information				Comments / Remarks					
Standard - 15 Days		<input checked="" type="checkbox"/>		Date: _____				All NJDEP TO-15 is mandatory Full T1				Received at Baton Rouge Service Center					
10 Day								Comm A									
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: [Signature]		Date Time: 11/15/12 10:20		Received By: FedEx		1		Relinquished By: FedEx		2		Date Time:		Received By: [Signature]			
Relinquished by: [Signature]		Date Time: 11-14-12 10:09		Received By: [Signature]		3		Relinquished By: [Signature]		4		Date Time: 11/14/12		Received By: FedEx			
Relinquished by: [Signature]		Date Time: 11/16/12 10:00		Received By: [Signature]		5		Custody Seal #									

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JB21439: Chain of Custody

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## Accutest Laboratories Sample Receipt Summary

**Accutest Job Number:** JB21439      **Client:** \_\_\_\_\_      **Project:** \_\_\_\_\_  
**Date / Time Received:** 11/16/2012      **Delivery Method:** \_\_\_\_\_      **Airbill #'s:** \_\_\_\_\_

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

<b>Cooler Security</b>	<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. SmpI Dates/Time OK	<input checked="" type="checkbox"/> <input type="checkbox"/>

<b>Cooler Temperature</b>	<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

<b>Quality Control Preservation</b>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input 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"/>

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

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

<b>Sample Integrity - Instructions</b>	<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

3.1  
3

# Summa Canister and Flow Controller Log

**Job Number:** JB21439  
**Account:** PROVLABR Providence Engineering  
**Project:** Valero-CAMS, Baton Rouge, LA  
**Received:** 11/16/12

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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
A732	6	29.4	10/12/12	RC	CP5727	3W30532.D	JB21439-1	11/16/12	HT	7.5			1

**Accutest Bottle Order(s):**  
 VP-10/12/2012-3

**Prep Date**      **Room Temp(F)**      **Bar Pres "Hg**  
 10/12/12          70                                  29.92