

**Technical Report for**

**Providence Engineering**

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

**712-001**

**Accutest Job Number: JB28404**

**Sampling Date: 02/04/13**

**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: JB28404**

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

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB28404-1	02/04/13	13:00 KH	02/08/13	AIR	Ambient Air Grab	CAMS 089

**Sample Results**

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**Report of Analysis**

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## Report of Analysis

Client Sample ID:	CAMS 089	Date Sampled:	02/04/13
Lab Sample ID:	JB28404-1	Date Received:	02/08/13
Matrix:	AIR - Ambient Air Grab Summa ID: A648	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	W40320.D	1	02/11/13	YMH	n/a	n/a	VW1626
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	6.7	0.20	0.069	ppbv		16	0.48	0.16	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.026	ppbv		ND	0.44	0.058	ug/m3
71-43-2	78.11	Benzene	0.39	0.20	0.029	ppbv		1.2	0.64	0.093	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.031	ppbv		ND	1.3	0.21	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.029	ppbv		ND	2.1	0.30	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	0.093	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.027	ppbv		ND	0.87	0.12	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.048	ppbv		ND	1.0	0.25	ug/m3
75-15-0	76.14	Carbon disulfide	0.22	0.20	0.024	ppbv		0.69	0.62	0.075	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.040	ppbv		ND	0.92	0.18	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.035	ppbv		ND	0.53	0.092	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.026	ppbv		ND	0.98	0.13	ug/m3
74-87-3	50.49	Chloromethane	0.85	0.20	0.055	ppbv		1.8	0.41	0.11	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.035	ppbv		ND	0.63	0.11	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	0.16	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.020	ppbv		ND	1.3	0.13	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.050	ppbv		ND	0.69	0.17	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.019	ppbv		ND	0.81	0.077	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.023	ppbv		ND	0.79	0.091	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.029	ppbv		ND	1.5	0.22	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.027	ppbv		ND	0.81	0.11	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.034	ppbv		ND	0.92	0.16	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	0.49	0.20	0.024	ppbv		2.4	0.99	0.12	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.035	ppbv		ND	1.7	0.30	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.027	ppbv		ND	0.79	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.025	ppbv		ND	0.79	0.099	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.033	ppbv		ND	0.91	0.15	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.028	ppbv		ND	1.2	0.17	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.039	ppbv		ND	1.2	0.23	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.060	ppbv		ND	1.2	0.36	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.024	ppbv		ND	0.91	0.11	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 089		
<b>Lab Sample ID:</b> JB28404-1		<b>Date Sampled:</b> 02/04/13
<b>Matrix:</b> AIR - Ambient Air Grab	<b>Summa ID:</b> A648	<b>Date Received:</b> 02/08/13
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<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	7.5	0.50	0.17	ppbv		14	0.94	0.32	ug/m3
100-41-4	106.2	Ethylbenzene	0.11	0.20	0.029	ppbv	J	0.48	0.87	0.13	ug/m3
141-78-6	88	Ethyl Acetate	0.57	0.20	0.13	ppbv		2.1	0.72	0.47	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.028	ppbv		ND	0.98	0.14	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.028	ppbv		ND	1.5	0.21	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.023	ppbv		ND	1.4	0.16	ug/m3
142-82-5	100.2	Heptane	0.15	0.20	0.028	ppbv	J	0.61	0.82	0.11	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.030	ppbv		ND	2.1	0.32	ug/m3
110-54-3	86.17	Hexane	0.41	0.20	0.050	ppbv		1.4	0.70	0.18	ug/m3
591-78-6	100	2-Hexanone	0.17	0.20	0.051	ppbv	J	0.70	0.82	0.21	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.90	0.20	0.065	ppbv		2.2	0.49	0.16	ug/m3
75-09-2	84.94	Methylene chloride	0.25	0.20	0.055	ppbv		0.87	0.69	0.19	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.82	0.20	0.042	ppbv		2.4	0.59	0.12	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.19	0.20	0.084	ppbv	J	0.78	0.82	0.34	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.045	ppbv		ND	0.72	0.16	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.038	ppbv		ND	0.82	0.16	ug/m3
115-07-1	42	Propylene	ND	0.50	0.034	ppbv		ND	0.86	0.058	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.025	ppbv		ND	0.85	0.11	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.024	ppbv		ND	1.1	0.13	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.034	ppbv		ND	1.4	0.23	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.035	ppbv		ND	1.1	0.19	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.095	ppbv		ND	1.5	0.71	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.20	0.029	ppbv		ND	0.98	0.14	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.044	ppbv		ND	0.98	0.22	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.38	0.20	0.031	ppbv		1.8	0.93	0.14	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.40	0.20	0.049	ppbv		1.2	0.61	0.15	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.024	ppbv		ND	0.27	0.16	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.074	ppbv		ND	0.59	0.22	ug/m3
108-88-3	92.14	Toluene	0.95	0.20	0.032	ppbv		3.6	0.75	0.12	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.036	ppbv		ND	0.21	0.19	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.22	0.20	0.028	ppbv		1.2	1.1	0.16	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.022	ppbv		ND	0.51	0.056	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.054	ppbv		ND	0.70	0.19	ug/m3
	106.2	m,p-Xylene	0.33	0.20	0.058	ppbv		1.4	0.87	0.25	ug/m3
95-47-6	106.2	o-Xylene	0.12	0.20	0.037	ppbv	J	0.52	0.87	0.16	ug/m3
1330-20-7	106.2	Xylenes (total)	0.45	0.20	0.037	ppbv		2.0	0.87	0.16	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		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

Air

# CHAIN OF CUSTODY

## Air Sampling Field Data Sheet



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

FED-EX Tracking # 8762-6615 0378  
Lab Quote #

Bottle Order Control #  
Lab Job # JB28404

PAGE 1 OF 1

Client / Reporting Information				Project Information				Weather Parameters				Requested Analysis					
Company Name: Providence Eng'r				Project Name: Valero Refining				Temperature (Fahrenheit)				Requested Analysis					
Address: 1201 Main St				Street:				Start:		Maximum:							
City: Bil State: LA Zip: 70802				City: Meroux LA State:				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(s) 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 089	A	A648	6L	-	2-3	1300	0.38	75	104	2-4	1300	12.01	75	104		
Turnaround Time (Business days)				Data Deliverable Information				Comments / Remarks									
Standard - 15 Days 10 Day 5 Day 3 Day 2 Day 1 Day Other				Approved By: _____  Date: _____				All NJDEP TO-15 is mandatory Full T1 Comm A Comm B Reduced T2 Full T1 Other: _____				Received at Baton Rouge Service Center (Summa)					
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:		Received By:	
1				[Signature]		[Signature]		2/8/13 0930		2/12/13		[Signature]		[Signature]		[Signature]	
Relinquished by:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:		Relinquished by:		Date Time:		Received By:	
3				[Signature]		[Signature]		2/8/13 0930		4		[Signature]		[Signature]		[Signature]	
Relinquished by:		Date Time:		Received By:		Custody Seal #		Date Time:		Received By:		Relinquished by:		Date Time:		Received By:	
5				[Signature]		CUBOT SEAL - N/A		2/8/13 0930		4		[Signature]		[Signature]		[Signature]	

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TO-15

BACK TABLE

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JB28404: Chain of Custody

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## Accutest Laboratories Sample Receipt Summary

**Accutest Job Number:** JB28404      **Client:** \_\_\_\_\_      **Project:** \_\_\_\_\_  
**Date / Time Received:** 2/8/2013      **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 type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
4. VOCs headspace free:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>

<b>Sample Integrity - Documentation</b>	<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"/>

<b>Sample Integrity - Condition</b>	<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 _____

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

Comments

# Summa Canister and Flow Controller Log

**Job Number:** JB28404  
**Account:** PROVLABR Providence Engineering  
**Project:** Valero-CAMS, Baton Rouge, LA  
**Received:** 02/08/13

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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
A648	6	29.4	01/08/13	RC	CP5892	2W37167.D	JB28404-1	02/08/13	HT	5			1

**Accutest Bottle Order(s):**  
 VP-1/8/2013-7

**Prep Date**      **Room Temp(F)**      **Bar Pres "Hg**  
 01/08/13      70      29.92