

**Technical Report for**

**Providence Engineering**

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

**712-001**

**Accutest Job Number: JB48837**

**Sampling Date: 09/24/13**

**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 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: JB48837**

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

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JB48837-1	09/24/13	13:00	AAG	09/30/13	AIR Ambient Air Grab	CAMS 128

**Sample Results**

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**Report of Analysis**

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## Report of Analysis

Client Sample ID:	CAMS 128	Date Sampled:	09/24/13
Lab Sample ID:	JB48837-1	Date Received:	09/30/13
Matrix:	AIR - Ambient Air Grab Summa ID: A845	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	W43961.D	1	10/04/13	DFT	n/a	n/a	VW1759
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	0.10	0.20	0.021	ppbv	J	0.32	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	0.15	0.20	0.017	ppbv	J	0.47	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	0.90	0.20	0.034	ppbv		1.9	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	ND	0.20	0.011	ppbv		ND	1.3	0.069	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.058	ppbv		ND	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	0.60	0.20	0.015	ppbv		3.0	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 128	Date Sampled:	09/24/13
Lab Sample ID:	JB48837-1	Date Received:	09/30/13
Matrix:	AIR - Ambient Air Grab Summa ID: A845	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	4.0	0.50	0.19	ppbv		7.5	0.94	0.36	ug/m3
100-41-4	106.2	Ethylbenzene	0.11	0.20	0.020	ppbv	J	0.48	0.87	0.087	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.20	0.057	ppbv		ND	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	ND	0.20	0.021	ppbv		ND	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	0.11	0.20	0.020	ppbv	J	0.45	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	0.39	0.20	0.016	ppbv		1.4	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	0.34	0.20	0.039	ppbv		0.84	0.49	0.096	ug/m3
75-09-2	84.94	Methylene chloride	0.30	0.20	0.047	ppbv		1.0	0.69	0.16	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.67	0.20	0.058	ppbv		2.0	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	ND	0.50	0.031	ppbv		ND	0.86	0.053	ug/m3
100-42-5	104.1	Styrene	0.29	0.20	0.020	ppbv		1.2	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	0.30	0.20	0.017	ppbv		1.5	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	0.61	0.20	0.021	ppbv		2.8	0.93	0.098	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.044	ppbv		ND	0.61	0.13	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.029	ppbv		ND	0.27	0.20	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.045	ppbv		ND	0.59	0.13	ug/m3
108-88-3	92.14	Toluene	0.67	0.20	0.020	ppbv		2.5	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	0.25	0.20	0.014	ppbv		1.4	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	0.13	0.20	0.019	ppbv	J	0.56	0.87	0.083	ug/m3
1330-20-7	106.2	Xylenes (total)	0.48	0.20	0.019	ppbv		2.1	0.87	0.083	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	107%		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

Am



# CHAIN OF CUSTODY

## Air Sampling Field Data Sheet

FED-EX Tracking # 8025-1433 6677

Boilerplate # VP-8/12/2018-19  
Lab Job # JB 48837

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Client / Reporting Information						Weather Parameters						Requested Analysis																																							
Company Name Providence Engr			Project Name Valero Refining			Temperature (Fahrenheit)						Standard TO-15 Reporting List																																							
Address 1201 Main St			Street			Start:			Maximum:																																										
City Bnl State LA Zip 70802			City Meroux State LA			Stop:			Minimum:																																										
Project Contact paulhollis@providenceeng.com			Project # 712-001			Atmospheric Pressure (inches of Hg)																																													
Phone # 225 766 7400 - 7410			Client Purchase Order #			Start:			Maximum:																																										
Sampler(s) Name(s) Karen Hudson						Stop:																																													
						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 128	A	A845	6L	-	9-23	1300	0.16	75	KH	9-24	1300	11.60	75	KH	✓																																			
<table border="1"> <tr> <th colspan="4">Turnaround time (Business days)</th> <th colspan="4">Data Deliverable Information</th> <th colspan="4">Comments / Remarks</th> </tr> <tr> <td>Standard - 15 Days</td> <td></td> <td rowspan="5">Approved By: _____</td> <td rowspan="5">Date: _____</td> <td colspan="4">All NJDEP TO-15 is mandatory Full T1</td> <td colspan="4" rowspan="5">           SOMMA            Received at Baton Rouge            Service Center         </td> </tr> <tr> <td>10 Day</td> <td></td> </tr> <tr> <td>5 Day</td> <td></td> </tr> <tr> <td>3 Day</td> <td></td> </tr> <tr> <td>2 Day</td> <td></td> </tr> <tr> <td>1 Day</td> <td></td> </tr> <tr> <td>Other</td> <td></td> </tr> </table>																Turnaround time (Business days)				Data Deliverable Information				Comments / Remarks				Standard - 15 Days		Approved By: _____	Date: _____	All NJDEP TO-15 is mandatory Full T1				SOMMA Received at Baton Rouge Service Center				10 Day		5 Day		3 Day		2 Day		1 Day		Other	
Turnaround time (Business days)				Data Deliverable Information				Comments / Remarks																																											
Standard - 15 Days		Approved By: _____	Date: _____	All NJDEP TO-15 is mandatory Full T1				SOMMA Received at Baton Rouge Service Center																																											
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5 Day																																																			
3 Day																																																			
2 Day																																																			
1 Day																																																			
Other																																																			
Sample Custody must be documented below each time samples change possession, including courier delivery.																																																			
Relinquished by: [Signature]		Date Time: 8/13/13 16:00		Received By: FedEx		1		Relinquished by: FedEx		Date Time:		2		[Signature]																																					
Relinquished by: [Signature]		Date Time: 9/13/13 12:07		Received By: [Signature]		3		Relinquished by: [Signature]		Date Time:		4		FedEx																																					
Relinquished by: FedEx		Date Time: 9-30-13 1000		Received By: [Signature]		5		Custody Seal #																																											

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JB48837: Chain of Custody

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Job# JB 48837  
(REQUIRED)

### Unused Summa Return Form

Client BKSC Office John Lowe  
Project Valero Refining

#Summas 1 #Flow Controllers 0

Summa#s A228 - 2  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Rec'd By [Signature] Rec'd Date/Time 9-30-13 1000

Rec'd via Fedex Master # 8025-1433-6677  
(Attach any client paperwork, documentation, or airbills if available)

Notes  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Accutest Job Number:** JB48837      **Client:** \_\_\_\_\_      **Project:** \_\_\_\_\_  
**Date / Time Received:** 9/30/2013      **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"/>

Comments

<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"/>



Job Change Order: JB48837

Requested Date: 10/14/2013      Received Date: 9/30/2013  
 Account Name: Providence Engineering      Due Date: 10/14/2013  
 Project Description: Valero-CAMS, Baton Rouge, LA      Deliverable: COMMB  
 CSR: vickyp      TAT (Days): 14

Sample #: JB48837-All

Dept:

**Change:**

Please revise sample date to 9/24 and re-issue the report.  
 Sampling started on 9/23 and ended 24 hours later on 9/24.

**JB48837: Chain of Custody**  
**Page 4 of 4**

**Above Changes Per:** Liz Martin      **Date:** 10/14/2013

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

# Summa Canister and Flow Controller Log

**Job Number:** JB48837  
**Account:** PROVLABR Providence Engineering  
**Project:** Valero-CAMS, Baton Rouge, LA  
**Received:** 09/30/13

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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
A845	6	29.4	08/22/13	DFT	CP6405	3W35581.D	JB48837-1	09/30/13	RC	7.5			1

**Accutest Bottle Order(s):**  
 VP-8/22/2013-4

**Prep Date**      **Room Temp(F)**      **Bar Pres "Hg**  
 08/22/13      70      29.92