

Technical Report for

Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-001

Accutest Job Number: JB61407

Sampling Date: 02/27/14

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: JB61407

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

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB61407-1	02/27/14	13:00 KH	03/10/14	AIR	Ambient Air Grab	CAMS 154

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	CAMS 154	Date Sampled:	02/27/14
Lab Sample ID:	JB61407-1	Date Received:	03/10/14
Matrix:	AIR - Ambient Air Grab Summa ID: A828	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	2W40689.D	1	03/20/14	YMH	n/a	n/a	V2W1696
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	3.3	0.20	0.034	ppbv		7.8	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	0.16	0.20	0.021	ppbv	J	0.51	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	ND	0.20	0.017	ppbv		ND	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	0.63	0.20	0.034	ppbv		1.3	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	0.54	0.20	0.015	ppbv		2.7	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 154		
Lab Sample ID: JB61407-1		Date Sampled: 02/27/14
Matrix: AIR - Ambient Air Grab	Summa ID: A828	Date Received: 03/10/14
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	MDL	Units
64-17-5	46.07	Ethanol	5.4	0.50	0.19	ppbv		10	0.94	0.36	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.020	ppbv		ND	0.87	0.087	ug/m3
141-78-6	88	Ethyl Acetate	1.1	0.20	0.057	ppbv		4.0	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	0.41	0.20	0.021	ppbv		3.1	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	ND	0.20	0.020	ppbv		ND	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	0.46	0.20	0.016	ppbv		1.6	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	0.54	0.20	0.039	ppbv		1.3	0.49	0.096	ug/m3
75-09-2	84.94	Methylene chloride	1.6	0.20	0.047	ppbv		5.6	0.69	0.16	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.44	0.20	0.058	ppbv		1.3	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	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	0.18	0.20	0.017	ppbv	J	0.88	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	ND	0.20	0.021	ppbv		ND	0.93	0.098	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.23	0.20	0.044	ppbv		0.70	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	0.16	0.20	0.045	ppbv	J	0.47	0.59	0.13	ug/m3
108-88-3	92.14	Toluene	0.29	0.20	0.020	ppbv		1.1	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	0.26	0.20	0.014	ppbv		1.5	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	ND	0.20	0.032	ppbv		ND	0.87	0.14	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.019	ppbv		ND	0.87	0.083	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.20	0.019	ppbv		ND	0.87	0.083	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		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

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log

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 #
 79813562 2371
 Lab Quote #

Bottle Order Control #
 Lab Job # JB61407

PAGE 1 OF 1

Client / Reporting Information				Project Information				Weather Parameters				Requested Analysis				
Company Name: <i>Providence Engr</i>				Project Name: <i>Valero Refining</i>				Temperature (Fahrenheit)				<div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 2em; font-weight: bold;">TO-15</div>				
Address: <i>1201 Main St</i>				Street:				Start: _____ Maximum: _____								
City: <i>BR</i> State: <i>LA</i> Zip: <i>70117</i>				City: <i>Meroux</i> State: <i>LA</i>				Stop: _____ Minimum: _____								
Project Contact: <i>Paul Hollis @ providenceeng.com</i> E-mail:				Project #: <i>712-001</i>				Atmospheric Pressure (inches of Hg)								
Phone #: <i>225-766-7400</i> Fax #: <i>7400-7400</i>				Client Purchase Order #				Start: _____ Maximum: _____								
Sampler(s) Name(s): <i>Karen Wilson</i>				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.	
<i>-1</i>	<i>CAMS 154</i>	<i>A</i>	<i>A828</i>	<i>6L</i>	<i>-</i>	<i>2-26</i>	<i>1300</i>	<i>0.20</i>	<i>75</i>	<i>KLH</i>	<i>2-27</i>	<i>1300</i>	<i>10.74</i>	<i>75</i>	<i>KLH</i>	<i>X</i>
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>Turnaround Time (Business days)</p> <p>Standard - 15 Days</p> <p>10 Day</p> <p>5 Day</p> <p>3 Day</p> <p>2 Day</p> <p>1 Day</p> <p>Other</p> </div> <div style="width: 30%;"> <p>Approved By: _____</p> <p>Date: _____</p> </div> <div style="width: 30%;"> <p>Data Deliverable Information</p> <p>All NJDEP TO-15 is mandatory Full T1</p> <p>Comm A</p> <p>Comm B</p> <p>Reduced T2</p> <p>Full T1</p> <p>Other: _____</p> </div> <div style="width: 30%;"> <p>Comments / Remarks</p> <p style="font-size: 1.5em; font-weight: bold; color: blue;">SUMMIT</p> <p style="font-size: 1.2em; font-weight: bold; color: blue;">Received at Baton Rouge Service Center</p> </div> </div>																
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:	Relinquished By:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:
<i>1</i>		<i>FX</i>	<i>2</i>	<i>3/16/14 12:10</i>	<i>2</i>	<i>3</i>	<i>3/10/14 10:30</i>	<i>4</i>		<i>4</i>		<i>5</i>				
Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:
<i>3</i>		<i>FX</i>	<i>4</i>		<i>FX</i>	<i>5</i>										
Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:
<i>5</i>																

ix/a

F.H

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Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB61407 **Client:** _____ **Project:** _____
Date / Time Received: 3/10/2014 **Delivery Method:** _____ **Airbill #s:** _____

Cooler Temps (Initial/Adjusted):

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

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

<u>Sample Integrity - Condition</u>	<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		

<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

3.1
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Summa Canister and Flow Controller Log

Job Number: JB61407
Account: PROVLABR Providence Engineering
Project: Valero-CAMS, Baton Rouge, LA
Received: 03/10/14

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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
A828	6	29.4	01/29/14	RC	CP6750	3W38588.D	JB61407-1	03/11/14	FZ	7			1

Accutest Bottle Order(s):
 VP-1/29/2014-3

Prep Date **Room Temp(F)** **Bar Pres "Hg**
 01/29/14 70 29.92