

Technical Report for

Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-001

Accutest Job Number: JB16281

Sampling Date: 09/07/12

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.



Paul Ioannidis
Lab 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: JB16281

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

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB16281-1	09/07/12	13:00 KH	09/14/12	AIR	Ambient Air Grab	CAMS 064

Sample Results

Report of Analysis

Report of Analysis

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Client Sample ID:	CAMS 064	Date Sampled:	09/07/12
Lab Sample ID:	JB16281-1	Date Received:	09/14/12
Matrix:	AIR - Ambient Air Grab Summa ID: A631	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	3W30287.D	1	09/18/12	YXC	n/a	n/a	V3W1179
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	16.7	0.20	0.036	ppbv		39.7	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	1.9	0.20	0.046	ppbv		6.1	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	0.53	0.20	0.032	ppbv		1.7	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	50.49	Chloromethane	0.81	0.20	0.037	ppbv		1.7	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	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	0.040	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.034	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.22	0.20	0.038	ppbv		1.1	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	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 064	Date Sampled:	09/07/12
Lab Sample ID:	JB16281-1	Date Received:	09/14/12
Matrix:	AIR - Ambient Air Grab Summa ID: A631	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	Units
64-17-5	46.07	Ethanol	9.1	0.50	0.095	ppbv		17	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	2.5	0.20	0.031	ppbv		11	0.87	ug/m3
141-78-6	88	Ethyl Acetate	0.81	0.20	0.061	ppbv		2.9	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.49	0.20	0.024	ppbv		2.4	0.98	ug/m3
76-13-1	187.4	Freon 113	0.19	0.20	0.034	ppbv	J	1.5	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	0.15	0.20	0.033	ppbv	J	0.61	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	27.3	0.20	0.044	ppbv		96.2	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	1.6	0.20	0.059	ppbv		3.9	0.49	ug/m3
75-09-2	84.94	Methylene chloride	18.2	0.20	0.027	ppbv		63.2	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.79	0.20	0.048	ppbv		2.3	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.17	0.20	0.036	ppbv	J	0.70	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	1.6	0.20	0.027	ppbv		5.8	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	0.21	0.20	0.027	ppbv		0.89	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	2.6	0.20	0.024	ppbv		13	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	1.1	0.20	0.028	ppbv		5.4	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.26	0.20	0.028	ppbv		1.2	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.85	0.20	0.032	ppbv		2.6	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.068	0.040	0.028	ppbv		0.46	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	0.25	0.20	0.047	ppbv		0.74	0.59	ug/m3
108-88-3	92.14	Toluene	3.3	0.20	0.040	ppbv		12	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	0.042	0.040	0.033	ppbv		0.23	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.33	0.20	0.042	ppbv		1.9	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	8.4	0.20	0.031	ppbv		36	0.87	ug/m3
95-47-6	106.2	o-Xylene	4.7	0.20	0.031	ppbv		20	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	13.1	0.20	0.031	ppbv		56.9	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		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

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log

Company Name <u>Providence Engr</u>		Project Name <u>Valero Refining</u>		Weather Parameters		Requested Analysis	
Address <u>1201 Main St</u>		Street		Temperature (Fahrenheit)			
City <u>BR</u> State <u>LA</u> Zip <u>70802</u>		City <u>Meraux</u> State <u>LA</u>		Start: _____ Maximum: _____			
Project Contact <u>Dan Hollis @ prov.denceeng.com</u>		Project # <u>712-001</u>		Stop: _____ Minimum: _____			
Phone # <u>225 766 7400</u> Fax # <u>- 7440</u>		Client Purchase Order #		Atmospheric Pressure (inches of Hg)			
Sampler(s) Name(s) <u>Karen Hudson</u>				Start: _____ Maximum: _____			
				Stop: _____ Minimum: _____		Other weather comment:	

Lab Sample #	Field ID / Point of Collection	Air Type				Start Sampling Information					Stop Sampling Information				
		Indoor (I) / Soil Vap (SV) / Ambient (A)	Canister Serial #	Canister Size BL or TL	Flow Controller Serial #	Date	Time (24 hr clock)	Canister Pressure (H _g)	Interior Temp (F)	Sampler Init.	Date	Time (24 hr clock)	Canister Pressure (H _g)	Interior Temp (F)	Sampler Init.
<u>-1</u>	<u>CAMS 064</u>	<u>A</u>	<u>A631</u>	<u>6L</u>	<u>-</u>	<u>9-6</u>	<u>1300</u>	<u>0.16</u>	<u>75</u>	<u>KH</u>	<u>9-7</u>	<u>1300</u>	<u>11.76</u>	<u>75</u>	<u>KH</u>

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

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:
1		<u>[Signature]</u>	<u>[Signature]</u>	<u>9/12/12</u>	<u>[Signature]</u>
Relinquished by:	Date/Time:	Received by:	Relinquished by:	Date/Time:	Received by:
3 <u>[Signature]</u>		<u>FedEx</u>	4 <u>FedEx</u>	<u>9/14/12</u>	<u>[Signature]</u>
Relinquished by:	Date/Time:	Received by:	Custody Seal #		
5					

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Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB16281 **Client:** _____ **Project:** _____
Date / Time Received: 9/14/2012 **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Initial/Adjusted):

Cooler Security		<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"/>

Cooler Temperature		<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	

Quality Control Preservation	<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"/>

Sample Integrity - Documentation		<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"/>

Sample Integrity - Condition		<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			

Sample Integrity - Instructions	<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: JB16281
Account: PROVLABR Providence Engineering
Project: Valero-CAMS, Baton Rouge, LA
Received: 09/14/12

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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
A631	6	29.4	07/26/12	HT	CP5537	3W29146.D	JB16281-1	09/14/12	RC	6.5			1

Accutest Bottle Order(s):
 KM-7/26/2012-7

Prep Date **Room Temp(F)** **Bar Pres "Hg**
 07/26/12 70 29.92