

Technical Report for

Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-001

Accutest Job Number: JB96163

Sampling Date: 05/29/15

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), AK (UST-103), AZ (AZ0786), 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: JB96163

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

Sample Number	Collected		Matrix			Client Sample ID
	Date	Time By	Received	Code	Type	
JB96163-1	05/29/15	13:00 KH	06/04/15	AIR	Ambient Air Grab	CAMS 230

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	CAMS 230	Date Sampled:	05/29/15
Lab Sample ID:	JB96163-1	Date Received:	06/04/15
Matrix:	AIR - Ambient Air Grab Summa ID: A265	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	5W11910.D	1	06/05/15	ML	n/a	n/a	V5W471
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	5.4	0.20	0.032	ppbv	13	0.48	0.076	ug/m3	
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.031	ppbv	ND	0.44	0.069	ug/m3	
71-43-2	78.11	Benzene	0.56	0.20	0.030	ppbv	1.8	0.64	0.096	ug/m3	
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.032	ppbv	ND	1.3	0.21	ug/m3	
75-25-2	252.8	Bromoform	ND	0.20	0.020	ppbv	ND	2.1	0.21	ug/m3	
74-83-9	94.94	Bromomethane	ND	0.20	0.022	ppbv	ND	0.78	0.085	ug/m3	
593-60-2	106.9	Bromoethene	ND	0.20	0.020	ppbv	ND	0.87	0.087	ug/m3	
100-44-7	126	Benzyl Chloride	ND	0.20	0.026	ppbv	ND	1.0	0.13	ug/m3	
75-15-0	76.14	Carbon disulfide	ND	0.20	0.029	ppbv	ND	0.62	0.090	ug/m3	
108-90-7	112.6	Chlorobenzene	ND	0.20	0.032	ppbv	ND	0.92	0.15	ug/m3	
75-00-3	64.52	Chloroethane	ND	0.20	0.022	ppbv	ND	0.53	0.058	ug/m3	
67-66-3	119.4	Chloroform	ND	0.20	0.031	ppbv	ND	0.98	0.15	ug/m3	
74-87-3	50.49	Chloromethane	0.74	0.20	0.029	ppbv	1.5	0.41	0.060	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	0.033	ppbv	ND	1.0	0.17	ug/m3	
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.025	ppbv	ND	1.3	0.16	ug/m3	
110-82-7	84.16	Cyclohexane	1.3	0.20	0.032	ppbv	4.5	0.69	0.11	ug/m3	
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.031	ppbv	ND	0.81	0.13	ug/m3	
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.028	ppbv	ND	0.79	0.11	ug/m3	
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.035	ppbv	ND	1.5	0.27	ug/m3	
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.026	ppbv	ND	0.81	0.11	ug/m3	
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.050	ppbv	ND	0.92	0.23	ug/m3	
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv	ND	0.72	0.23	ug/m3	
75-71-8	120.9	Dichlorodifluoromethane	0.50	0.20	0.037	ppbv	2.5	0.99	0.18	ug/m3	
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.041	ppbv	ND	1.7	0.35	ug/m3	
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.020	ppbv	ND	0.79	0.079	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	0.035	ppbv	ND	0.91	0.16	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	0.030	ppbv	ND	1.2	0.18	ug/m3	
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.019	ppbv	ND	1.2	0.11	ug/m3	
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.020	ppbv	ND	0.91	0.091	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 230	Date Sampled:	05/29/15
Lab Sample ID:	JB96163-1	Date Received:	06/04/15
Matrix:	AIR - Ambient Air Grab Summa ID: A265	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	2.1	0.50	0.17	ppbv		4.0	0.94	0.32	ug/m3
100-41-4	106.2	Ethylbenzene	0.21	0.20	0.048	ppbv		0.91	0.87	0.21	ug/m3
141-78-6	88	Ethyl Acetate	1.3	0.20	0.064	ppbv		4.7	0.72	0.23	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.022	ppbv		ND	0.98	0.11	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.027	ppbv		ND	1.5	0.21	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.025	ppbv		ND	1.4	0.17	ug/m3
142-82-5	100.2	Heptane	2.0	0.20	0.029	ppbv		8.2	0.82	0.12	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.033	ppbv		ND	2.1	0.35	ug/m3
110-54-3	86.17	Hexane	5.0	0.20	0.028	ppbv		18	0.70	0.099	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.044	ppbv		ND	0.82	0.18	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.94	0.20	0.12	ppbv		2.3	0.49	0.29	ug/m3
75-09-2	84.94	Methylene chloride	0.21	0.20	0.13	ppbv		0.73	0.69	0.45	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.68	0.20	0.049	ppbv		2.0	0.59	0.14	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.10	0.20	0.027	ppbv	J	0.41	0.82	0.11	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.026	ppbv		ND	0.72	0.094	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.030	ppbv		ND	0.82	0.12	ug/m3
115-07-1	42	Propylene	ND	0.50	0.081	ppbv		ND	0.86	0.14	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.026	ppbv		ND	0.85	0.11	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.032	ppbv		ND	1.1	0.17	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	0.036	ppbv		ND	1.1	0.20	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.044	ppbv		ND	1.5	0.33	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.24	0.20	0.023	ppbv		1.2	0.98	0.11	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.030	ppbv		ND	0.98	0.15	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.77	0.20	0.021	ppbv		3.6	0.93	0.098	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.050	ppbv		ND	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	0.17	0.20	0.043	ppbv	J	0.50	0.59	0.13	ug/m3
108-88-3	92.14	Toluene	1.7	0.20	0.020	ppbv		6.4	0.75	0.075	ug/m3
79-01-6	131.4	Trichloroethylene	0.061	0.040	0.025	ppbv		0.33	0.21	0.13	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.23	0.20	0.020	ppbv		1.3	1.1	0.11	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	0.082	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.055	ppbv		ND	0.70	0.19	ug/m3
	106.2	m,p-Xylene	0.77	0.20	0.043	ppbv		3.3	0.87	0.19	ug/m3
95-47-6	106.2	o-Xylene	0.27	0.20	0.026	ppbv		1.2	0.87	0.11	ug/m3
1330-20-7	106.2	Xylenes (total)	1.0	0.20	0.026	ppbv		4.3	0.87	0.11	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		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

FED-EX Tracking # 6250 6353 6146
 Lab Quote #

Bottle Order Control #
 Lab Job # JB96163

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Client / Reporting Information				Weather Parameters					Requested Analysis									
Company Name <u>Providence Engr</u>		Project Name: <u>Valero Refining</u>		Temperature (Fahrenheit)				Standard TO-15 Reporting List										
Address <u>1201 Main St</u>		Street		Start: Maximum:														
City <u>Biz</u> State <u>LA</u> Zip <u>70802</u>		City <u>Meraux</u> State <u>LA</u>		Stop: Minimum:														
Project Contact <u>Paul Hollis@providenceeng.com</u> E-mail		Project # <u>712-001</u>		Atmospheric Pressure (inches of Hg)														
Phone # <u>225-766-7400</u> Fax # <u>-7440</u>		Client Purchase Order #		Start: Maximum:														
Sampler(s) Name(s) <u>K Hudson</u>				Stop: Minimum:														
Other weather comment:																		
Lab Sample #	Field ID / Point of Collection	Air Type			Start Sampling Information					Stop Sampling Information								
		Incor(t) Soil Vap(SV) Ambient(A)	Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Date	Time (24hr clock)	Canister Pressure (H _g)	Interior Temp (F)	Sampler Init.	Date	Time (24hr clock)	Canister Pressure (H _g)	Interior Temp (F)	Sampler Init.			
<u>1</u>	<u>CAMS 230</u>	<u>A</u>	<u>A2656L</u>	<u>-</u>	<u>5/28</u>	<u>1300</u>	<u>0.17</u>	<u>75</u>	<u>W1</u>	<u>5/29</u>	<u>1300</u>	<u>11.54</u>	<u>75</u>	<u>W1</u>	<input checked="" type="checkbox"/>			
Turnaround Time (Business Days)				Data Deliverable Information					Comments / Remarks									
Standard - 15 Days <input checked="" type="checkbox"/> 10 Day <input type="checkbox"/> 5 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 1 Day <input type="checkbox"/> Other <input type="checkbox"/>				Approved By: _____ Date: _____					All NJDEP TO-15 is mandatory Full T1 Comm A <input type="checkbox"/> Comm B <input type="checkbox"/> Reduced T2 <input type="checkbox"/> Full T1 <input type="checkbox"/> Other: <input type="checkbox"/>					<u>SUMMA</u> INITIAL ASESMENT <u>Am 4A</u> LABEL VERIFICATION <u>NL</u>				
Sample Custody must be documented below each time samples change possession, including courier delivery.																		
Relinquished by Laboratory: <u>1</u>	Date Time:	Received By: <u>[Signature]</u>	1	Relinquished By: <u>[Signature]</u>	2	Date Time:	Received By: <u>[Signature]</u>	2	4									
Relinquished by: <u>FED-EX</u>	Date Time: <u>6-4-15 900</u>	Received By: <u>[Signature]</u>	3	Relinquished By: <u>[Signature]</u>	4	Date Time:	Received By: <u>[Signature]</u>	4	4									
Relinquished by: <u>5</u>	Date Time:	Received By: <u>[Signature]</u>	5	Custody Seal #														

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JB96163: Chain of Custody

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Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB96163 Client: _____ Project: _____

Date / Time Received: 6/4/2015 9:00:00 AM Delivery Method: _____ Airbill #s: _____

Cooler Temps (Raw Measured) °C: _____

Cooler Temps (Corrected) °C: _____

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 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"/> |

Cooler Temperature

Y or N

- | | | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | _____ | |
| 3. Cooler media: | _____ | |
| 4. No. Coolers: | <u>0</u> | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| 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 checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 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

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 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

Y or N

N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 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

Summa Canister and Flow Controller Log

Job Number: JB96163
Account: PROVLABR Providence Engineering
Project: Valero-CAMS, Baton Rouge, LA
Received: 06/04/15

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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
A265	6	29.4	05/15/15	ML	CP7720	5W11346.D	JB96163-1	06/04/15	RD	6.5			1

Accutest Bottle Order(s):
 VP-5/15/2015-2

Prep Date **Room Temp(F)** **Bar Pres "Hg**
 05/15/15 70 29.92