

Technical Report for

Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-001

Accutest Job Number: JB52076

Sampling Date: 10/30/13

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 Program 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, DoD ELAP (L-A-B L2248)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Sample Results	4
2.1: JB52076-1: CAMS 134	5
Section 3: Misc. Forms	8
3.1: Chain of Custody	9
3.2: Summa Canister and Flow Controller Log	12



Sample Summary

Providence Engineering

Job No: JB52076

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

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB52076-1	10/30/13	13:00 KH	11/05/13	AIR	Ambient Air Grab	CAMS 134

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	CAMS 134	Date Sampled:	10/30/13
Lab Sample ID:	JB52076-1	Date Received:	11/05/13
Matrix:	AIR - Ambient Air Grab Summa ID: A472	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	5W1157.D	1	11/09/13	DFT	n/a	n/a	V5W49
Run #2	5W1176.D	1	11/09/13	DFT	n/a	n/a	V5W50

Run #	Initial Volume
Run #1	400 ml
Run #2	100 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	105 ^a	0.80	0.14	ppbv		249 ^a	1.9	0.33	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	0.34	0.20	0.021	ppbv		1.1	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	0.17	0.20	0.017	ppbv	J	0.53	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	0.12	0.20	0.020	ppbv	J	0.32	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	1.1	0.20	0.034	ppbv		2.3	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	0.41	0.20	0.058	ppbv		1.4	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	6.9	0.20	0.040	ppbv		32	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	0.48	0.20	0.015	ppbv		2.4	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 134	Date Sampled:	10/30/13
Lab Sample ID:	JB52076-1	Date Received:	11/05/13
Matrix:	AIR - Ambient Air Grab	Summa ID:	A472
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	10.2	0.50	0.19	ppbv		19.2	0.94	0.36	ug/m3
100-41-4	106.2	Ethylbenzene	2.7	0.20	0.020	ppbv		12	0.87	0.087	ug/m3
141-78-6	88	Ethyl Acetate	3.1	0.20	0.057	ppbv		11	0.72	0.21	ug/m3
622-96-8	120.2	4-Ethyltoluene	1.5	0.20	0.015	ppbv		7.4	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	0.68	0.20	0.020	ppbv		2.8	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	ND	0.20	0.016	ppbv		ND	0.70	0.056	ug/m3
591-78-6	100	2-Hexanone	0.72	0.20	0.025	ppbv		2.9	0.82	0.10	ug/m3
67-63-0	60.1	Isopropyl Alcohol	10.5	0.20	0.039	ppbv		25.8	0.49	0.096	ug/m3
75-09-2	84.94	Methylene chloride	0.49	0.20	0.047	ppbv		1.7	0.69	0.16	ug/m3
78-93-3	72.11	Methyl ethyl ketone	9.3	0.20	0.058	ppbv		27	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	0.38	0.20	0.040	ppbv		1.6	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	10.6	0.20	0.017	ppbv		52.1	0.98	0.084	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	3.3	0.20	0.015	ppbv		16	0.98	0.074	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	1.6	0.20	0.021	ppbv		7.5	0.93	0.098	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	4.5	0.20	0.044	ppbv		14	0.61	0.13	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.035	0.040	0.029	ppbv	J	0.24	0.27	0.20	ug/m3
109-99-9	72.11	Tetrahydrofuran	3.1	0.20	0.045	ppbv		9.1	0.59	0.13	ug/m3
108-88-3	92.14	Toluene	5.5	0.20	0.020	ppbv		21	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	0.22	0.20	0.014	ppbv		1.2	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	22.1	0.20	0.032	ppbv		96.0	0.87	0.14	ug/m3
95-47-6	106.2	o-Xylene	7.1	0.20	0.019	ppbv		31	0.87	0.083	ug/m3
1330-20-7	106.2	Xylenes (total)	29.2	0.20	0.019	ppbv		127	0.87	0.083	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%	99%	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

Report of Analysis

Client Sample ID: CAMS 134		
Lab Sample ID: JB52076-1		Date Sampled: 10/30/13
Matrix: AIR - Ambient Air Grab	Summa ID: A472	Date Received: 11/05/13
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
---------	----	----------	--------	----	-----	-------	---	--------	----	-----	-------

(a) Result is from Run# 2

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

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 # 7970 6039 1710
 Lab Quote #
 Bottle Order Control # JB52076
 Lab Job #

PAGE 1 OF 1

Client / Reporting Information		Project Information		Weather Parameters		Requested Analysis	
Company Name: Providence Engr.		Project Name: Valero Refining		Temperature (Fahrenheit)			
Address: 1201 Macin St		Street:		Start: Maximum:			
City: BR State: LA Zip: 70802		City: Metairie State: LA		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): Kavea Hudson				Stop: Minimum:			
				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 135	A				A47262	-		10-29	1300	0.07	75	KH	10-30	1300	11.52	75	KH		

Turnaround Time (Business days)	Approved By:	Date:	Data Deliverable Information	Comments / Remarks
Standard - 15 Days 10 Day 5 Day 3 Day 2 Day 1 Day Other	_____	_____	All NJDEP TO-15 is mandatory Full T1 Comm A Comm B Reduced T2 Full T1 Other: _____	SUMMA Received at Baton Rouge Service Center

Sample Custody must be documented below each time samples change possession, including courier delivery.							
Relinquished by Laboratory: 1	Date Time:	Received By: 1	Relinquished By: 2	Date Time: 11/13/13 10:35	Received By: 2	Relinquished by Laboratory: 3	Date Time:
Relinquished by: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time: 11/5/13 0905	Received By: 4	Relinquished by Laboratory: 5	Date Time:
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #				

3A DM

Accutest Job Number: JB52076 **Client:** _____ **Project:** _____
Date / Time Received: 11/5/2013 **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 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"/>

<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"/>

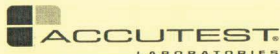
<u>Sample Integrity - Condition</u>	<u>Y or N</u>	
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Condition of sample:	Intact	

<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"/>

Comments

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 #	Bottle Order Control #
Lab Quote #	Lab Job #

PAGE 1 OF 1

Client / Reporting Information		Project Information				Weather Parameters				Requested Analysis	
Company Name Providence Engr.		Project Name: Valero Refining				Temperature (Fahrenheit)					
Address 1201 Main St		Street				Start:		Maximum:			
City Bld		State CA		Zip 70802		Stop:		Minimum:			
Project Contact Paul Hollos @ providenceeng.com		City Miramonte		State CA		Atmospheric Pressure (inches of Hg)					
Phone # 725-766-7400		E-mail		Project # 712-001		Start:		Maximum:			
Fax # -7440		Client Purchase Order #		Stop:				Minimum:			
Sampler(s) Name(s) Kara Hudson						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.		
	CAHS 133 134 KH				A	A47261			11-29	1300	607	79	KH	10-30	1300	1152	75	KH		

Turnaround Time (Business days)		Data Deliverable Information			Comments / Remarks	
Standard - 15 Days		All NJDEP TO-15 is mandatory Full T1				
10 Day		Comm A				
5 Day		Comm B				
3 Day		Reduced T2				
2 Day		Full T1				
1 Day		Other:				
Other						

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		1	2	11/18/10 10:35	2
Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3		3	4		4
Relinquished by:	Date Time:	Received By:	Custody Seal #		
5		5			



Summa Canister and Flow Controller Log

Job Number: JB52076
Account: PROVLABR Providence Engineering
Project: Valero-CAMS, Baton Rouge, LA
Received: 11/05/13

32
3

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
A472	6	29.4	10/04/13	RC	CP6478	3W36010.D	JB52076-1	11/06/13	RC	7			1

Accutest Bottle Order(s):
 VP-10/4/2013-4

Prep Date **Room Temp(F)** **Bar Pres "Hg**
 10/04/13 70 29.92