

Technical Report for

Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-001

Accutest Job Number: JC3815

Sampling Date: 09/08/15

Report to:

Providence Engineering

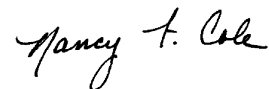
kevincalhoun@providenceeng.com

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 Cole
Laboratory Director

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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, TX, 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: JC3815

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

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JC3815-1	09/08/15	13:00 KH	09/15/15	AIR	Ambient Air Grab	CAMS 247

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	CAMS 247	Date Sampled:	09/08/15
Lab Sample ID:	JC3815-1	Date Received:	09/15/15
Matrix:	AIR - Ambient Air Grab Summa ID: A216	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	5W13912.D	1.48	09/15/15	YMH	n/a	n/a	V5W551
Run #2							

Run #	Initial Volume
Run #1	592 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	31.6	0.20	0.032	ppbv		75.1	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	0.27	0.20	0.030	ppbv		0.86	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	0.90	0.20	0.029	ppbv		1.9	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	0.20	0.20	0.032	ppbv		0.69	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	0.30	0.20	0.063	ppbv		1.1	0.72	0.23	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.55	0.20	0.037	ppbv		2.7	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 247	Date Sampled:	09/08/15
Lab Sample ID:	JC3815-1	Date Received:	09/15/15
Matrix:	AIR - Ambient Air Grab Summa ID: A216	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	13.4	0.50	0.17	ppbv		25.2	0.94	0.32	ug/m3
100-41-4	106.2	Ethylbenzene	0.13	0.20	0.048	ppbv	J	0.56	0.87	0.21	ug/m3
141-78-6	88	Ethyl Acetate	0.39	0.20	0.064	ppbv		1.4	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	0.20	0.20	0.029	ppbv		0.82	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	0.86	0.20	0.028	ppbv		3.0	0.70	0.099	ug/m3
591-78-6	100	2-Hexanone	2.2	0.20	0.044	ppbv		9.0	0.82	0.18	ug/m3
67-63-0	60.1	Isopropyl Alcohol	1.2	0.20	0.12	ppbv		2.9	0.49	0.29	ug/m3
75-09-2	84.94	Methylene chloride	0.20	0.20	0.13	ppbv		0.69	0.69	0.45	ug/m3
78-93-3	72.11	Methyl ethyl ketone	3.2	0.20	0.049	ppbv		9.4	0.59	0.14	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	4.1	0.20	0.027	ppbv		17	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	0.22	0.20	0.026	ppbv		0.94	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	0.16	0.20	0.023	ppbv	J	0.79	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	0.28	0.20	0.021	ppbv		1.3	0.93	0.098	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.47	0.20	0.050	ppbv		1.4	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	0.24	0.20	0.043	ppbv		0.71	0.59	0.13	ug/m3
108-88-3	92.14	Toluene	0.60	0.20	0.020	ppbv		2.3	0.75	0.075	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.025	ppbv		ND	0.21	0.13	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.26	0.20	0.020	ppbv		1.5	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	0.47	0.20	0.043	ppbv		2.0	0.87	0.19	ug/m3
95-47-6	106.2	o-Xylene	0.14	0.20	0.026	ppbv	J	0.61	0.87	0.11	ug/m3
1330-20-7	106.2	Xylenes (total)	0.61	0.20	0.026	ppbv		2.6	0.87	0.11	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

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log

AIR



CHAIN OF CUSTODY

Air Sampling Field Data Sheet

FED-MS Tracking # 16250 638 7719
MS Code #

Bottle Order Control #

Lab Job # JC3815

PAGE 1 OF 1

Company Name: Providence Engr				Project Name: Valero Refining				Weather Parameters				Requested Analysis			
Address: 1201 Main St				Street				Start: _____		Maximum: _____		Standard TO-15 Reporting List			
City: BR		State: LA		Zip: 70458		City: Meroux		State: LA		Stop: _____				Minimum: _____	
Project Contact: Paul Hollis @providenceengr.com				Project #: 712001				Atmospheric Pressure (inches of Hg)							
Phone #: 225-766-7400				Client Purchase Order #				Start: _____		Maximum: _____				Stop: _____	

Lab Sample #	Field ID / Point of Collection	Air Type			Sampling Equipment Info			Start Sampling Information					Stop Sampling Information					Standard TO-15 Reporting List
		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 247	A			A2146L	-	9-7	1300	0.01	75	KH	9-8	1300	1.1	75	KB	✓	

Turnaround Time (Business days)				Data Deliverable Information				Comments / Remarks			
Standard - 15 Days	10 Day	5 Day	3 Day	2 Day	1 Day	Other	Approved By: _____	All NJDEP TO-15 is mandatory Full T1		COC seal #48	
							Date: _____	Comm A	Comm B	Reduced T2	K Hudson
								Full T1	Other:		Summer

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: 9/15/15 10:30	Received By: 2	Relinquished by: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4	Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	MR Intact	

ASSESSMENT: WABV
 VERIFICATION: BV

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3

Accutest Job Number: JC3815 **Client:** _____ **Project:** _____
Date / Time Received: 9/15/2015 10:30:00 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: _____ | 0 |

- Quality Control Preservation**
- | | | | | | |
|---------------------------------|-------------------------------------|-----------|--------------------------|--|-------------------------------------|
| | Y | or | N | | N/A |
| 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"/> |

- 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

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3

Summa Canister and Flow Controller Log

Job Number: JC3815
Account: PROVLABR Providence Engineering
Project: Valero-CAMS, Baton Rouge, LA
Received: 09/15/15

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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
A216	6	29.4	08/26/15	RD	CP7922	3W49542.D	JC3815-1	09/15/15	YMH	8		1.2	1.48

Accutest Bottle Order(s):
 VP-8/26/2015-8

Prep Date **Room Temp(F)** **Bar Pres "Hg**
 08/26/15 70 29.92