

Technical Report for

Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-001

SGS Accutest Job Number: JC32289

Sampling Date: 11/13/16

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

Client Service contact: Victoria Pushkova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (L-A-B L2248)

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Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Sample Results	4
2.1: JC32289-1: CAMS 319	5
Section 3: Misc. Forms	7
3.1: Chain of Custody	8
3.2: Summa Canister and Flow Controller Log	10

1

2

3



Sample Summary

Providence Engineering

Job No: JC32289

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

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JC32289-1	11/13/16	13:00 KH	11/23/16	AIR	Ambient Air Comp.	CAMS 319

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: CAMS 319		
Lab Sample ID: JC32289-1		Date Sampled: 11/13/16
Matrix: AIR - Ambient Air Comp. Summa ID: A822		Date Received: 11/23/16
Method: TO-15		Percent Solids: n/a
Project: Valero-CAMS, Baton Rouge, LA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W57308.D	1	12/07/16	TCH	n/a	n/a	V3W2172
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	5.9	0.20	0.036	ppbv	14	0.48	0.086	ug/m3	
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.028	ppbv	ND	0.44	0.062	ug/m3	
71-43-2	78.11	Benzene	0.24	0.20	0.031	ppbv	0.77	0.64	0.099	ug/m3	
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.039	ppbv	ND	1.3	0.26	ug/m3	
75-25-2	252.8	Bromoform	ND	0.20	0.016	ppbv	ND	2.1	0.17	ug/m3	
74-83-9	94.94	Bromomethane	ND	0.20	0.018	ppbv	ND	0.78	0.070	ug/m3	
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv	ND	0.87	0.079	ug/m3	
100-44-7	126	Benzyl Chloride	ND	0.20	0.027	ppbv	ND	1.0	0.14	ug/m3	
75-15-0	76.14	Carbon disulfide	ND	0.20	0.031	ppbv	ND	0.62	0.097	ug/m3	
108-90-7	112.6	Chlorobenzene	ND	0.20	0.056	ppbv	ND	0.92	0.26	ug/m3	
75-00-3	64.52	Chloroethane	ND	0.20	0.036	ppbv	ND	0.53	0.095	ug/m3	
67-66-3	119.4	Chloroform	ND	0.20	0.017	ppbv	ND	0.98	0.083	ug/m3	
74-87-3	50.49	Chloromethane	0.58	0.20	0.052	ppbv	1.2	0.41	0.11	ug/m3	
107-05-1	76.53	3-Chloropropene	ND	0.20	0.027	ppbv	ND	0.63	0.085	ug/m3	
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.017	ppbv	ND	1.0	0.088	ug/m3	
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.031	ppbv	ND	1.3	0.20	ug/m3	
110-82-7	84.16	Cyclohexane	ND	0.20	0.016	ppbv	ND	0.69	0.055	ug/m3	
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.015	ppbv	ND	0.81	0.061	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	0.042	ppbv	ND	1.5	0.32	ug/m3	
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.018	ppbv	ND	0.81	0.073	ug/m3	
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.022	ppbv	ND	0.92	0.10	ug/m3	
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.045	ppbv	ND	0.72	0.16	ug/m3	
75-71-8	120.9	Dichlorodifluoromethane	0.41	0.20	0.019	ppbv	2.0	0.99	0.094	ug/m3	
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.053	ppbv	ND	1.7	0.45	ug/m3	
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv	ND	0.79	0.11	ug/m3	
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.021	ppbv	ND	0.79	0.083	ug/m3	
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.015	ppbv	ND	0.91	0.068	ug/m3	
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.020	ppbv	ND	1.2	0.12	ug/m3	
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.016	ppbv	ND	1.2	0.096	ug/m3	
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.027	ppbv	ND	1.2	0.16	ug/m3	
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.018	ppbv	ND	0.91	0.082	ug/m3	

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

Report of Analysis

Client Sample ID: CAMS 319		
Lab Sample ID: JC32289-1		Date Sampled: 11/13/16
Matrix: AIR - Ambient Air Comp.	Summa ID: A822	Date Received: 11/23/16
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	2.0	0.50	0.075	ppbv		3.8	0.94	0.14	ug/m3
100-41-4	106.2	Ethylbenzene	0.097	0.20	0.042	ppbv	J	0.42	0.87	0.18	ug/m3
141-78-6	88	Ethyl Acetate	2.0	0.20	0.075	ppbv		7.2	0.72	0.27	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.26	0.20	0.017	ppbv		1.3	0.98	0.084	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	0.031	ppbv		ND	1.4	0.22	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	0.020	ppbv		ND	2.1	0.21	ug/m3
110-54-3	86.17	Hexane	0.35	0.20	0.023	ppbv		1.2	0.70	0.081	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.045	ppbv		ND	0.82	0.18	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.24	0.20	0.16	ppbv		0.59	0.49	0.39	ug/m3
75-09-2	84.94	Methylene chloride	0.59	0.20	0.025	ppbv		2.0	0.69	0.087	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.54	0.20	0.048	ppbv		1.6	0.59	0.14	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.055	ppbv		ND	0.82	0.23	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.020	ppbv		ND	0.72	0.072	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	0.032	ppbv		ND	0.86	0.055	ug/m3
100-42-5	104.1	Styrene	0.11	0.20	0.015	ppbv	J	0.47	0.85	0.064	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.024	ppbv		ND	1.1	0.13	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.016	ppbv		ND	1.4	0.11	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.039	ppbv		ND	1.1	0.21	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.056	ppbv		ND	1.5	0.42	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.93	0.20	0.015	ppbv		4.6	0.98	0.074	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.28	0.20	0.045	ppbv		1.4	0.98	0.22	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.11	0.20	0.023	ppbv	J	0.51	0.93	0.11	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.053	ppbv		ND	0.61	0.16	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.023	ppbv		ND	0.27	0.16	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.045	ppbv		ND	0.59	0.13	ug/m3
108-88-3	92.14	Toluene	0.42	0.20	0.012	ppbv		1.6	0.75	0.045	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	0.022	ppbv		1.2	1.1	0.12	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.021	ppbv		ND	0.51	0.054	ug/m3
108-05-4	86	Vinyl Acetate	0.46	0.20	0.054	ppbv		1.6	0.70	0.19	ug/m3
	106.2	m,p-Xylene	0.69	0.20	0.068	ppbv		3.0	0.87	0.30	ug/m3
95-47-6	106.2	o-Xylene	0.40	0.20	0.051	ppbv		1.7	0.87	0.22	ug/m3
1330-20-7	106.2	Xylenes (total)	1.1	0.20	0.051	ppbv		4.8	0.87	0.22	ug/m3

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

AIR



ACCUTEST

AIR CHAIN OF CUSTODY

SGS Accutest - Dayton
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED Ex Tracking #
6780 9788 7468

Batch/Order Control #
VF-101512016-657
Lab Job #
JC32289

PAGE 1 OF 1

Client / Reporting Information		Project Information					Weather Parameters					Requested Analysis				
Company Name: Providence Engr		Project Name: Valero Refining					Temperature (Fahrenheit)					Requested Analysis				
Address: 1201 Main St		Street					Start: Maximum:									
City: BIR State: LA Zip: 70802		City: Meroux State: LA					Stop: Minimum:									
Project Contact: paul.hollis@providenceeng.com		Project #: T12-001					Atmospheric Pressure (inches of Hg)									
Phone #: 225-766-7400 Fax #: -7400		Client Purchase Order #					Start: Maximum:					70-15				
Sampler(s) Name(s): K Hudson		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.	
-1	Cams 319	A	A622	6L	C537	11-12	1300	30	75	KH	11-13	1300	5	75	KH	✓
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: TIAL ASESMENT HARRY Date: _____ Date: _____					All NJDEP TO-15 is mandatory Full T1 Comm A Comm B Reduced T2 Full T1 Other: _____ DKOP reporting					COC sent Fed Ex ship Sample inventory is verified upon receipt in the Laboratory.				
Sample Custody must be documented below each time samples change possession, including courier delivery.																
Relinquished by: [Signature]	Date/Time: 11/17/16 10:15	Received By: FedEx	1	Relinquished By: FedEx	2	Date/Time:	Received By: [Signature]	2								
Relinquished by: [Signature]	Date/Time:	Received By: FedEx	3	Relinquished By: FedEx	4	Date/Time: 11/23/16 9:30	Received By: [Signature]	5								
Relinquished by:	Date/Time:	Received By:	5	Custody Seal #	zoe intact											

JC32289: Chain of Custody

Page 1 of 2

31
3

SGS Accutest Sample Receipt Summary

Job Number: JC32289

Client: _____

Project: _____

Date / Time Received: 11/23/2016 9:30:00 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. Smp'l Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

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

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

Summa Canister and Flow Controller Log

Job Number: JC32289
Account: PROVLABR Providence Engineering
Project: Valero-CAMS, Baton Rouge, LA
Received: 11/23/16

32
3

SUMMA CANISTERS													
Shipping							Receiving						
Summa ID	Vac L	Date " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A822	6	29.4	10/31/16	PC	CP8776	5W20800.D	JC32289-1	11/23/16	RD	5			1

SGS Accutest Bottle Order(s):
 VP-10/31/2016-657

Prep Date **Room Temp(F)** **Bar Pres "Hg**
 10/31/16 70 29.92