

Technical Report for

Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-001

SGS Accutest Job Number: JC42532

Sampling Date: 04/30/17

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)

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

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Sample Results	4
2.1: JC42532-1: CAMS 347	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: JC42532

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

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JC42532-1	04/30/17	16:30 KH	05/03/17	AIR	Ambient Air Grab	CAMS 347

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	CAMS 347	Date Sampled:	04/30/17
Lab Sample ID:	JC42532-1	Date Received:	05/03/17
Matrix:	AIR - Ambient Air Grab Summa ID: A302	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	3W59886.D	1.52	05/11/17 18:34	TCH	n/a	n/a	V3W2276
Run #2							

Run #	Initial Volume
Run #1	608 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	6.4	0.20	0.062	ppbv	15	0.48	0.15	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	0.54	0.20	0.026	ppbv	1.7	0.64	0.083	ug/m3	
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.029	ppbv	ND	1.3	0.19	ug/m3	
75-25-2	252.8	Bromoform	ND	0.20	0.018	ppbv	ND	2.1	0.19	ug/m3	
74-83-9	94.94	Bromomethane	ND	0.20	0.033	ppbv	ND	0.78	0.13	ug/m3	
593-60-2	106.9	Bromoethene	ND	0.20	0.016	ppbv	ND	0.87	0.070	ug/m3	
100-44-7	126	Benzyl Chloride	ND	0.20	0.021	ppbv	ND	1.0	0.11	ug/m3	
75-15-0	76.14	Carbon disulfide	ND	0.20	0.033	ppbv	ND	0.62	0.10	ug/m3	
108-90-7	112.6	Chlorobenzene	ND	0.20	0.017	ppbv	ND	0.92	0.078	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	0.031	ppbv	ND	0.98	0.15	ug/m3	
74-87-3	50.49	Chloromethane	0.74	0.20	0.065	ppbv	1.5	0.41	0.13	ug/m3	
107-05-1	76.53	3-Chloropropene	ND	0.20	0.037	ppbv	ND	0.63	0.12	ug/m3	
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.036	ppbv	ND	1.0	0.19	ug/m3	
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.020	ppbv	ND	1.3	0.13	ug/m3	
110-82-7	84.16	Cyclohexane	0.95	0.20	0.035	ppbv	3.3	0.69	0.12	ug/m3	
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.033	ppbv	ND	0.81	0.13	ug/m3	
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.033	ppbv	ND	0.79	0.13	ug/m3	
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.022	ppbv	ND	1.5	0.17	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	0.033	ppbv	ND	0.92	0.15	ug/m3	
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.047	ppbv	ND	0.72	0.17	ug/m3	
75-71-8	120.9	Dichlorodifluoromethane	0.43	0.20	0.025	ppbv	2.1	0.99	0.12	ug/m3	
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.025	ppbv	ND	1.7	0.21	ug/m3	
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.026	ppbv	ND	0.79	0.10	ug/m3	
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.034	ppbv	ND	0.79	0.13	ug/m3	
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.023	ppbv	ND	0.91	0.10	ug/m3	
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.029	ppbv	ND	1.2	0.17	ug/m3	
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.028	ppbv	ND	1.2	0.17	ug/m3	
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.029	ppbv	ND	1.2	0.17	ug/m3	
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.029	ppbv	ND	0.91	0.13	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 347		
Lab Sample ID: JC42532-1		Date Sampled: 04/30/17
Matrix: AIR - Ambient Air Grab	Summa ID: A302	Date Received: 05/03/17
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	1.0	0.50	0.095	ppbv		1.9	0.94	0.18	ug/m3
100-41-4	106.2	Ethylbenzene	0.36	0.20	0.023	ppbv		1.6	0.87	0.10	ug/m3
141-78-6	88	Ethyl Acetate	0.23	0.20	0.065	ppbv		0.83	0.72	0.23	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.028	ppbv		ND	0.98	0.14	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.024	ppbv		ND	1.5	0.18	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.024	ppbv		ND	1.4	0.17	ug/m3
142-82-5	100.2	Heptane	0.50	0.20	0.046	ppbv		2.0	0.82	0.19	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.024	ppbv		ND	2.1	0.26	ug/m3
110-54-3	86.17	Hexane	1.2	0.20	0.026	ppbv		4.2	0.70	0.092	ug/m3
591-78-6	100	2-Hexanone	0.41	0.20	0.041	ppbv		1.7	0.82	0.17	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.39	0.20	0.090	ppbv		0.96	0.49	0.22	ug/m3
75-09-2	84.94	Methylene chloride	0.34	0.20	0.033	ppbv		1.2	0.69	0.11	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.1	0.20	0.043	ppbv		3.2	0.59	0.13	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.057	ppbv		ND	0.82	0.23	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.019	ppbv		ND	0.72	0.069	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.044	ppbv		ND	0.82	0.18	ug/m3
115-07-1	42	Propylene	ND	0.50	0.059	ppbv		ND	0.86	0.10	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.046	ppbv		ND	0.85	0.20	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.017	ppbv		ND	1.1	0.093	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.036	ppbv		ND	1.4	0.25	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	0.12	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.038	ppbv		ND	1.5	0.28	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.20	0.051	ppbv		ND	0.98	0.25	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	0.55	0.20	0.026	ppbv		2.6	0.93	0.12	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.026	ppbv		ND	0.61	0.079	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.016	ppbv		ND	0.27	0.11	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	1.6	0.20	0.029	ppbv		6.0	0.75	0.11	ug/m3
79-01-6	131.4	Trichloroethylene	0.038	0.040	0.012	ppbv	J	0.20	0.21	0.064	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.20	0.20	0.015	ppbv		1.1	1.1	0.084	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.038	ppbv		ND	0.51	0.097	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.027	ppbv		ND	0.70	0.095	ug/m3
	106.2	m,p-Xylene	0.90	0.20	0.067	ppbv		3.9	0.87	0.29	ug/m3
95-47-6	106.2	o-Xylene	0.29	0.20	0.035	ppbv		1.3	0.87	0.15	ug/m3
1330-20-7	106.2	Xylenes (total)	1.2	0.20	0.035	ppbv		5.2	0.87	0.15	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		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



ACCUTEST

AIR

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 # 7250 6927 9623
Box/Container Control # VP-033017-279
Lab Cottle # Lab Job # JC42532

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 BR State LA Zip 70802				City Meroux State LA						Stop: Minimum:									
Project Contact paulhd@providenceeng.com				Project # 712-001						Atmospheric Pressure (inches of Hg)									
Phone # 225-766-7400 Fax # -7440				Client Purchase Order #						Start: Maximum:					TO-15				
Sampler(s) Name(s) K Hudson				Other weather comment:						Stop: Minimum:									
Air Type		Sampling Equipment Info			Start Sampling Information					Stop Sampling Information									
Lab Sample #	Field ID / Point of Collection	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 347	A	A302	6L	C537	4-29	1700	30	75	LT	4-30	1630	7	75	LT				
INITIAL ASSESSMENT <input checked="" type="checkbox"/> LABEL VERIFICATION <input checked="" type="checkbox"/>																			
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: _____ Date: _____				All NJDEP TO-15 is mandatory Full T1 Comm A Comm B Reduced T2 Full T1 Other: _____ DKQP reporting				COC seal Fedex ship SUMMA 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: 5/30/17 17:30		Received By: FedEx		Relinquished By: FedEx		Date/Time:		Received By: [Signature]									
Relinquished by: [Signature]		Date/Time:		Received By: FedEx		Relinquished By: FedEx		Date/Time: 5/3/17 10:15		Received By: [Signature]									
Relinquished by:		Date/Time:		Received By:		Custody Seal #		86 INTACT											

31
3

JC42532: Chain of Custody

Page 1 of 2

SGS Accutest Sample Receipt Summary

Job Number: JC42532

Client: _____

Project: _____

Date / Time Received: 5/3/2017 10:15:00 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 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 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

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

SM089-02
Rev. Date 12/1/16

JC42532: Chain of Custody

Page 2 of 2

3.1
3

Summa Canister and Flow Controller Log

Job Number: JC42532
Account: PROVLABR Providence Engineering
Project: Valero-CAMS, Baton Rouge, LA
Received: 05/03/17

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
A302	6	29.4	04/25/17	RD	CP9136	5W23871.D	JC42532-1	05/04/17	PC	8.5		1.3	1.52

SGS Accutest Bottle Order(s):
 VP_042517_71

Prep Date **Room Temp(F)** **Bar Pres "Hg**
 04/25/17 70 29.92