

EnCore Consulting, LLC.

Sample Delivery Group: L1846391
Samples Received: 04/11/2025
Project Number: CK2705326
Description: Circle K Store No. 2705326
Site: CK2705326
Report To: Shanda Wagner
950 West Elliot Rd
Suite 116
Tempe, AZ 85284

Entire Report Reviewed By:



Daphne Richards
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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SAMPLE SUMMARY

55-516692 L1846391-01 DW

Collected by Makinna Balasko Collected date/time 04/09/25 10:31 Received date/time 04/11/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 524.2	WG2493855	1	04/18/25 13:42	04/18/25 13:42	DWR	Mt. Juliet, TN

1 Cp

2 Tc

55-910687 L1846391-02 DW

Collected by Makinna Balasko Collected date/time 04/09/25 11:38 Received date/time 04/11/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 524.2	WG2489046	1	04/12/25 15:50	04/12/25 15:50	DWR	Mt. Juliet, TN

3 Ss

4 Cn

5 Sr

55-513231 L1846391-03 DW

Collected by Makinna Balasko Collected date/time 04/09/25 13:49 Received date/time 04/11/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 524.2	WG2489046	1	04/12/25 16:10	04/12/25 16:10	DWR	Mt. Juliet, TN

6 Qc

7 Is

8 Gl

55-504425 L1846391-04 DW

Collected by Makinna Balasko Collected date/time 04/09/25 14:49 Received date/time 04/11/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 524.2	WG2489046	1	04/12/25 16:30	04/12/25 16:30	DWR	Mt. Juliet, TN

9 Al

10 Sc

55-532738 L1846391-05 DW

Collected by Makinna Balasko Collected date/time 04/09/25 15:23 Received date/time 04/11/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 524.2	WG2489046	1	04/12/25 16:49	04/12/25 16:49	DWR	Mt. Juliet, TN

55-532762 L1846391-06 DW

Collected by Makinna Balasko Collected date/time 04/09/25 16:14 Received date/time 04/11/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 524.2	WG2489046	1	04/12/25 17:09	04/12/25 17:09	DWR	Mt. Juliet, TN

DUP-58 L1846391-07 DW

Collected by Makinna Balasko Collected date/time 04/09/25 10:00 Received date/time 04/11/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 524.2	WG2489046	1	04/12/25 17:29	04/12/25 17:29	DWR	Mt. Juliet, TN

TRIP BLANK L1846391-08 DW

Collected by Makinna Balasko Collected date/time 04/09/25 00:00 Received date/time 04/11/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 524.2	WG2489046	1	04/12/25 15:10	04/12/25 15:10	DWR	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Daphne Richards
Project Manager

Sample Delivery Group (SDG) Narrative

Insufficient sample volume to perform MS/MSD analyses per method QC requirements.

<u>Lab Sample ID</u>	<u>Project Sample ID</u>	<u>Method</u>
L1846391-02	55-910687	524.2
L1846391-03	55-513231	524.2
L1846391-04	55-504425	524.2
L1846391-05	55-532738	524.2
L1846391-06	55-532762	524.2
L1846391-07	DUP-58	524.2
L1846391-08	TRIP BLANK	524.2



Volatile Organic Compounds (GC/MS) by Method 524.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0490	0.500	1	04/18/2025 13:42	WG2493855
Xylenes, Total	U		0.340	0.500	1	04/18/2025 13:42	WG2493855
Toluene	U		0.412	0.500	1	04/18/2025 13:42	WG2493855
Ethylbenzene	U		0.0440	0.500	1	04/18/2025 13:42	WG2493855

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 524.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0490	0.500	1	04/12/2025 15:50	WG2489046
Xylenes, Total	U		0.340	0.500	1	04/12/2025 15:50	WG2489046
Toluene	U		0.412	0.500	1	04/12/2025 15:50	WG2489046
Ethylbenzene	U		0.0440	0.500	1	04/12/2025 15:50	WG2489046

- ¹Cp
- ²Tc
- ³Ss
- ⁴Cn
- ⁵Sr
- ⁶Qc
- ⁷Is
- ⁸Gl
- ⁹Al
- ¹⁰Sc

Volatile Organic Compounds (GC/MS) by Method 524.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0490	0.500	1	04/12/2025 16:10	WG2489046
Xylenes, Total	U		0.340	0.500	1	04/12/2025 16:10	WG2489046
Toluene	U		0.412	0.500	1	04/12/2025 16:10	WG2489046
Ethylbenzene	U		0.0440	0.500	1	04/12/2025 16:10	WG2489046

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 524.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	U		0.0490	0.500	1	04/12/2025 16:30	WG2489046
Xylenes, Total	U		0.340	0.500	1	04/12/2025 16:30	WG2489046
Toluene	U		0.412	0.500	1	04/12/2025 16:30	WG2489046
Ethylbenzene	U		0.0440	0.500	1	04/12/2025 16:30	WG2489046

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Is

⁸ Gl

⁹ Al

¹⁰ Sc

Volatile Organic Compounds (GC/MS) by Method 524.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0490	0.500	1	04/12/2025 16:49	WG2489046
Xylenes, Total	U		0.340	0.500	1	04/12/2025 16:49	WG2489046
Toluene	U		0.412	0.500	1	04/12/2025 16:49	WG2489046
Ethylbenzene	U		0.0440	0.500	1	04/12/2025 16:49	WG2489046

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 524.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0490	0.500	1	04/12/2025 17:09	WG2489046
Xylenes, Total	U		0.340	0.500	1	04/12/2025 17:09	WG2489046
Toluene	U		0.412	0.500	1	04/12/2025 17:09	WG2489046
Ethylbenzene	U		0.0440	0.500	1	04/12/2025 17:09	WG2489046

- ¹Cp
- ²Tc
- ³Ss
- ⁴Cn
- ⁵Sr
- ⁶Qc
- ⁷Is
- ⁸Gl
- ⁹Al
- ¹⁰Sc

Volatile Organic Compounds (GC/MS) by Method 524.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	ug/l		ug/l	ug/l			
Benzene	U		0.0490	0.500	1	04/12/2025 17:29	WG2489046
Xylenes, Total	U		0.340	0.500	1	04/12/2025 17:29	WG2489046
Toluene	U		0.412	0.500	1	04/12/2025 17:29	WG2489046
Ethylbenzene	U		0.0440	0.500	1	04/12/2025 17:29	WG2489046

- ¹Cp
- ²Tc
- ³Ss
- ⁴Cn
- ⁵Sr
- ⁶Qc
- ⁷Is
- ⁸Gl
- ⁹Al
- ¹⁰Sc

Volatile Organic Compounds (GC/MS) by Method 524.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0490	0.500	1	04/12/2025 15:10	WG2489046
Xylenes, Total	U		0.340	0.500	1	04/12/2025 15:10	WG2489046
Toluene	U		0.412	0.500	1	04/12/2025 15:10	WG2489046
Ethylbenzene	U		0.0440	0.500	1	04/12/2025 15:10	WG2489046

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Method Blank (MB)

(MB) R4201525-2 04/12/25 13:25

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Benzene	U		0.0490	0.500
Xylenes, Total	U		0.340	0.500
Toluene	U		0.412	0.500
Ethylbenzene	U		0.0440	0.500

Laboratory Control Sample (LCS)

(LCS) R4201525-1 04/12/25 12:25

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Benzene	5.00	4.59	91.8	70.0-130	
Xylenes, Total	15.0	13.4	89.3	70.0-130	
Toluene	5.00	4.51	90.2	70.0-130	
Ethylbenzene	5.00	4.33	86.6	70.0-130	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R4201633-3 04/18/25 09:05

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.0490	0.500
Xylenes, Total	U		0.340	0.500
Toluene	U		0.412	0.500
Ethylbenzene	U		0.0440	0.500

Laboratory Control Sample (LCS)

(LCS) R4201633-2 04/18/25 08:06

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	5.00	4.36	87.2	70.0-130	
Xylenes, Total	15.0	12.0	80.0	70.0-130	
Toluene	5.00	4.13	82.6	70.0-130	
Ethylbenzene	5.00	3.92	78.4	70.0-130	

L1846391-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1846391-01 04/18/25 13:42 • (MS) R4201633-4 04/18/25 14:02 • (MSD) R4201633-5 04/18/25 14:22

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	5.00	U	4.95	4.94	99.0	98.8	1	70.0-130			0.202	20
Xylenes, Total	15.0	U	14.3	14.1	95.3	94.0	1	70.0-130			1.41	20
Toluene	5.00	U	4.87	4.82	97.4	96.4	1	70.0-130			1.03	20
Ethylbenzene	5.00	U	4.68	4.69	93.6	93.8	1	70.0-130			0.213	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

INTERNAL STANDARD SUMMARY

Instrument: VOCMS13 • File ID: 0412_03

04/12/25 12:25

Sample ID	File ID	FLUOROBENZENE Response
Standard	0412_03	190181
Upper Limit		247235
Lower Limit		133127
LCS R4201525-1 WG2489046 1x	0412_03LCS	190181
BLANK R4201525-2 WG2489046 1x	0412_06	161257
L1846391-08 WG2489046 1x	0412_08	172775
L1846391-02 WG2489046 1x	0412_10	174660
L1846391-03 WG2489046 1x	0412_11	175098
L1846391-04 WG2489046 1x	0412_12	144469
L1846391-05 WG2489046 1x	0412_13	171466
L1846391-06 WG2489046 1x	0412_14	164685
L1846391-07 WG2489046 1x	0412_15	175967

Instrument: VOCMS13 • File ID: 0418_05

04/18/25 08:06

Sample ID	File ID	FLUOROBENZENE Response
Standard	0418_05	169131
Upper Limit		219870
Lower Limit		118392
LCS R4201633-2 WG2493855 1x	0418_05LCS	169131
BLANK R4201633-3 WG2493855 1x	0418_08	172066
L1846391-01 WG2493855 1x	0418_22	162175
MS R4201633-4 WG2493855 1x	0418_23	174635
MSD R4201633-5 WG2493855 1x	0418_24	169725

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



