PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 3/8/2023 6:25:57 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-181119-1

Eurofins Canton 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Canton

Job Notes

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Authorization

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Authorized for release by Michael DelMonico, Project Manager I Michael.DelMonico@et.eurofinsus.com (330)497-9396

Eurofins Canton is a laboratory within Eurofins Environment Testing North Central, LLC, a company within Eurofins Environment Testing Group of Companies

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-181119-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 240-181119-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

Appreviation	l nese commonly used appreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid

CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Case Narrative

Client: ARCADIS U.S., Inc.

Job ID: 240-181119-1

Project/Site: Ford LTP - Off Site

Job ID: 240-181119-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-181119-1

Receipt

The samples were received on 3/1/2023 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.2°C, 1.0°C and 3.2°C

GC/MS VOA

Method 8260D_SIM: The MS/MSD for batch 564027 was not analyzed due to an instrument malfunction.MW-95S_022423 (240-181119-2)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Method Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-181119-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CAN
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	EET CAN
5030C	Purge and Trap	SW846	EET CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

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Sample Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-181119-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-181119-1	TRIP BLANK_4	Water	02/24/23 00:00	03/01/23 09:50
240-181119-2	MW-95S_022423	Water	02/24/23 12:00	03/01/23 09:50

3

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Detection Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-181119-1

Client Sample ID: TRIP BLANK_4

No Detections.

Lab Sample ID: 240-181119-1

No Detections.

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-181119-1

Project/Site: Ford LTP - Off Site

Date Received: 03/01/23 09:50

Client Sample ID: TRIP BLANK_4

Lab Sample ID: 240-181119-1 Date Collected: 02/24/23 00:00

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/03/23 16:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/03/23 16:41	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/03/23 16:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/03/23 16:41	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/03/23 16:41	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/03/23 16:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137			-		03/03/23 16:41	1
4-Bromofluorobenzene (Surr)	83		56 ₋ 136					03/03/23 16:41	1
Toluene-d8 (Surr)	91		78 - 122					03/03/23 16:41	1
Dibromofluoromethane (Surr)	96		73 - 120					03/03/23 16:41	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-181119-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-95S_022423

Date Collected: 02/24/23 12:00

1.0 U

Lab Sample ID: 240-181119-2 Matrix: Water

03/03/23 20:27

Date Received: 03/01/23 09:50

trans-1,2-Dichloroethene

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/02/23 22:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		66 - 120			•		03/02/23 22:14	1
- Method: SW846 8260D - Volati	le Organic Comp	ounds by G	C/MS						
momous officers of the state									
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte 1,1-Dichloroethene	Result 1.0		RL	MDL 0.49		<u>D</u> .	Prepared	Analyzed 03/03/23 20:27	Dil Fac
Analyte		U			ug/L	<u>D</u> .	Prepared	·	Dil Fac 1

Trichloroethene	1.0 U	1.0	0.44 ug/L		03/03/23 20:27	1
Vinyl chloride	1.0 U	1.0	0.45 ug/L		03/03/23 20:27	1
Surrogate	%Recovery Qualifi	er Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107	62 - 137			03/03/23 20:27	1
4-Bromofluorobenzene (Surr)	88	56 ₋ 136			03/03/23 20:27	1
Toluene-d8 (Surr)	90	78 - 122			03/03/23 20:27	1
Dibromofluoromethane (Surr)	96	73 - 120			03/03/23 20:27	1

1.0

0.51 ug/L

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 240-181119-1

Project/Site: Ford LTP - Off Site

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water Prep Type: Total/NA

				Percent Su	rrogate Rec
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-181119-1	TRIP BLANK_4	105	83	91	96
240-181119-2	MW-95S_022423	107	88	90	96
240-181130-A-5 MS	Matrix Spike	111	91	97	94
240-181130-A-5 MSD	Matrix Spike Duplicate	102	90	93	90
LCS 240-564175/5	Lab Control Sample	106	91	93	99
MB 240-564175/8	Method Blank	108	88	91	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits
		DCA	
Lab Sample ID	Client Sample ID	(66-120)	
240-181119-2	MW-95S_022423	90	
LCS 240-564027/4	Lab Control Sample	85	
MB 240-564027/6	Method Blank	83	

DCA = 1,2-Dichloroethane-d4 (Surr)

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Job ID: 240-181119-1

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 240-564175/8

Matrix: Water

Analysis Batch: 564175

Client Sample ID: Method Blar	k
Pren Tyne: Total/N	Δ

C

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/03/23 15:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/03/23 15:00	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/03/23 15:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/03/23 15:00	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/03/23 15:00	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/03/23 15:00	1

	MB	MB			
Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108	62 - 137		03/03/23 15:00	1
4-Bromofluorobenzene (Surr)	88	56 - 136		03/03/23 15:00	1
Toluene-d8 (Surr)	91	78 - 122		03/03/23 15:00	1
Dibromofluoromethane (Surr)	95	73 - 120		03/03/23 15:00	1

Lab Sample ID: LCS 240-564175/5

Matrix: Water

Analysis Batch: 564175

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	17.8		ug/L		89	63 - 134	
cis-1,2-Dichloroethene	20.0	18.5		ug/L		92	77 - 123	
Tetrachloroethene	20.0	20.2		ug/L		101	76 - 123	
trans-1,2-Dichloroethene	20.0	20.7		ug/L		103	75 - 124	
Trichloroethene	20.0	19.3		ug/L		96	70 - 122	
Vinyl chloride	20.0	20.6		ug/L		103	60 - 144	
				-				

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		62 - 137
4-Bromofluorobenzene (Surr)	91		56 ₋ 136
Toluene-d8 (Surr)	93		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

Matrix: Water

Analysis Batch: 564175

Lab Sample ID: 240-181130-A-5 MS Client Sample ID: Matrix Spike **Prep Type: Total/NA**

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	140	U	2860	2420		ug/L		85	56 - 135	
cis-1,2-Dichloroethene	5500		2860	7950		ug/L		86	66 - 128	
Tetrachloroethene	140	U	2860	2910		ug/L		102	62 - 131	
trans-1,2-Dichloroethene	160		2860	3040		ug/L		101	56 - 136	
Trichloroethene	1300		2860	3920		ug/L		93	61 - 124	
Vinyl chloride	2300		2860	5280		ug/L		103	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		62 - 137
4-Bromofluorobenzene (Surr)	91		56 - 136
Toluene-d8 (Surr)	97		78 - 122

Eurofins Canton

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Spike

Added

2860

2860

2860

2860

2860

2860

5200

ug/L

Job ID: 240-181119-1

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 240-181130-A-5 MS

Matrix: Water

Analysis Batch: 564175

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 94 73 - 120

Lab Sample ID: 240-181130-A-5 MSD

Matrix: Water

1,1-Dichloroethene

Tetrachloroethene

Trichloroethene

Vinyl chloride

cis-1,2-Dichloroethene

trans-1,2-Dichloroethene

Analyte

Analysis Batch: 564175

Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

43 - 157

MSD MSD %Rec RPD RPD Result Qualifier Unit D %Rec Limits Limit 2370 ug/L 83 56 - 135 2 26 7820 81 66 - 128 ug/L 2 14 2800 ug/L 98 62 - 131 20 2910 ug/L 96 56 - 136 15 3720 ug/L 86 61 - 124 5 15

100

MSD MSD

MR MR

Sample Sample

140

140

160

1300

2300

5500

Result Qualifier

%Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 102 62 - 137 4-Bromofluorobenzene (Surr) 90 56 - 136 Toluene-d8 (Surr) 93 78 - 122 Dibromofluoromethane (Surr) 90 73 - 120

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-564027/6

Matrix: Water

Analysis Batch: 564027

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

2

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 03/02/23 12:56 MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 83 66 - 120 03/02/23 12:56

Lab Sample ID: LCS 240-564027/4

Matrix: Water

Analysis Batch: 564027

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 1,4-Dioxane 10.0 10.5 ug/L 105 80 - 122

LCS LCS

%Recovery Qualifier Surrogate Limits 66 - 120 1,2-Dichloroethane-d4 (Surr) 85

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 240-181119-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 564027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-181119-2	MW-95S_022423	Total/NA	Water	8260D SIM	
MB 240-564027/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-564027/4	Lab Control Sample	Total/NA	Water	8260D SIM	

Analysis Batch: 564175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
240-181119-1	TRIP BLANK_4	Total/NA	Water	8260D	
240-181119-2	MW-95S_022423	Total/NA	Water	8260D	
MB 240-564175/8	Method Blank	Total/NA	Water	8260D	
LCS 240-564175/5	Lab Control Sample	Total/NA	Water	8260D	
240-181130-A-5 MS	Matrix Spike	Total/NA	Water	8260D	
240-181130-A-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 240-181119-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_4

Lab Sample ID: 240-181119-1 Date Collected: 02/24/23 00:00 Matrix: Water

Date Received: 03/01/23 09:50

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	564175	SAM	EET CAN	03/03/23 16:41

Client Sample ID: MW-95S_022423 Lab Sample ID: 240-181119-2

Date Collected: 02/24/23 12:00 Matrix: Water

Date Received: 03/01/23 09:50

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	564175	SAM	EET CAN	03/03/23 20:27
Total/NA	Analysis	8260D SIM		1	564027	BAJ	EET CAN	03/02/23 22:14

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 240-181119-1 Project/Site: Ford LTP - Off Site

Laboratory: Eurofins Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-27-23 *
Connecticut	State	PH-0590	12-31-23
Florida	NELAP	E87225	06-30-23
Georgia	State	4062	02-27-23 *
Illinois	NELAP	200004	07-31-23
Iowa	State	421	06-01-23
Kentucky (UST)	State	112225	02-27-23 *
Kentucky (WW)	State	KY98016	12-31-23
Michigan	State	9135	02-27-23 *
Minnesota	NELAP	039-999-348	12-31-23
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-23
New York	NELAP	10975	04-01-23
Ohio	State	8303	02-27-23 *
Ohio VAP	State	CL0024	02-27-23 *
Oregon	NELAP	4062	02-28-24
Pennsylvania	NELAP	68-00340	08-31-23
Texas	NELAP	T104704517-22-17	08-31-23
Virginia	NELAP	460175	09-14-23
West Virginia DEP	State	210	12-31-23

 $^{{}^{\}star}\operatorname{Accreditation/Certification\ renewal\ pending\ -\ accreditation/certification\ considered\ valid}.$

Client Contact	Regulatory program: DW NPDES RCRA Other	NPDES RCRA Other	i.	
Company Name: Areadis			- 1	TestAmerica Laboratories, Inc
Address: 28550 Cabot Drive, Suite 500	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	COC No:
	Telephone: 248-994-2240	Telephone: 248-994-2240	Telephone: 330-497-9396	
City/State/Zip: Novi, MI, 48377	Francis: Printentian blackavia seconds com	Analysis larnafolind line	Anstree	1 of 1 COCs
Phone: 248-994-2240	TOTAL MINISTER MINISTER MARKET			Los ago use cony
Project Name: Ford LTP Off-Site	Sampler Name:	TAT if different from below 3 weeks		Walk-in client
Project Number: 30167538.402.04	Carrier:	1 week	8	Suiduis art
PO # 30167538.402.04	Shipping/Tracking No:	/ X) ə	85608	Job/SDG No:
	Matrix		B B B B Ude	
Sample Identification	Sample Date Sample Time Air Solid	Composite Filtered S Other: NaOH HCG HCG HCG	1,1-DCE 8260 Trans-1,2-DC 8260 TCE 8260 Vinyl Chlo	Sample Specific Notes / Special Instructions:
TRIP BLANK_	2/24/23 1	1 N G	× × × × × ×	1 Trip Blank
200000000000000000000000000000000000000	1) 24/2 (3 mg/	7/1/	У >> >> >>	3 VOAs for 8260B
1 W- 155-02473	3	\rightarrow	<	3 VOAs for 8260B SIM
Possible Hazard Identification Non-Hazard Special Instructiona/OC Requirements & Comments: 0 Skin Irritant Sample Address: (2.1.3)	Skin Irriant Poison B Unknown	Sample Disposal (A fee may be assessed if samples are retained longer than I Return to Client P Disposal By Lab Archive For	240-181119 Chain of Custody sessed if samples are retained longer than 1 month) sposal By Lab Archive For Months	
Submit all results through Cadena at itomalia@cad	naco.com. Cadena #E203631			
Relinquished by Relinquished by	CRASS Date Times 27 SCASS 12 S	3/830 Received by:	Company: Calis	Date Time: 3 / 830 Date Time: (2) / 1200
Kelinquished by Musel	Company A 2286	23 12,10 Keceive in Laboratory by:	Des Company:	\$ 1-23 9:50
©2008 TestAmerica Laboratories, Inc. All rights reserved.				

TestAmerica

Chain of Custody Record

		Login #:	18111
Client ARCANS	Site Name		Cooler unpacked by:
		= n	11/201
Cooler Received on 3 - 1 - 23	Opened on 3	<u> </u>	1 . 200
FedEx: 1 st Grd Exp UPS FAS Cli Receipt After-hours: Drop-off Date/Time		s Courier Other	
Eurofins Cooler # 70 Form B		rage Location Other	
Packing material used Bubble Wrap			
COOLANT: Wet Ice Blue			
1. Cooler temperature upon receipt		Multiple Cooler Form	
IR GUN # IR-13 (CF -0.2 °C) Obse	rved Cooler Temp. C Co	prected Cooler Tem	p°C
IR GUN # IR-16 (CF -0.1°C) Obse	rved Cooler Temp. °C Co	prected Cooler Tem	
IR GUN # IR-17 (CF -0.3°C) Obse	rved Cooler Temp°C Co	orrected Cooler Tem	p°C
2. Were tamper/custody seals on the outsi		tyYes N	Tests that are not
-Were the seals on the outside of the		Yes N	o NA checked for pH by
-Were tamper/custody seals on the bo			
-Were tamper/custody seals intact and		Yes	
Shippers' packing slip attached to the co Did custody meners accompany the same		YEN	Off and Course
 Did custody papers accompany the same Were the custody papers relinquished & 		Yes No	
6. Was/were the person(s) who collected the			
7. Did all bottles arrive in good condition (Yes No	
8. Could all bottle labels (ID/Date/Time) b		Ye N	
9. For each sample, does the COC specify	preservative (V/N), # of containe	(YAN), and sample	e type of grab/comp(YN)?
10. Were correct bottle(s) used for the test(s		Yes No	
11. Sufficient quantity received to perform i		For No	
12. Are these work share samples and all lis		Yes No	S)
If yes, Questions 13-17 have been check			NA pH Strip Lot# HC203864
13. Were all preserved sample(s) at the correct 14. Were VOAs on the COC?	ect pri upon receipt?	Yes No	
15. Were air bubbles >6 mm in any VOA v	als? Larger than this.	Yes No	
16. Was a VOA trip blank present in the co			
17. Was a LL Hg or Me Hg trip blank prese		Yes No	
Contacted PM Date	bý	via Verbal Voice	(det) (deber
Conscient PM	оу	_ vin verbal voice !	MIII Other
Concerning			
·			
18. CHAIN OF CUSTODY & SAMPLE	MCCDED ANCIES TO ALL	1 6	-les
16. CHAIN OF CUSTOPI & SAMPLE	DISCREPANCIES CI SOCIOLO	ni next page San	aples processed by:
19. SAMPLE CONDITION			
Sample(s)	were received after the recon	amended holding tin	ne had expired.
Sample(s)		were received in a b	roken container.
Sample(s)	were received with bu	ibble >6 mm in dian	neter. (Notify PM)
20. SAMPLE PRESERVATION			
Sample(s)		were further or	reserved in the laboratory.
Sample(s)Preservative(s) added/Lot number(s):		
/OA Sample Preservation - Date/Time VOA			
	s Prozen:		

1277 BTC AAA

Login #: 181119

		Eurofins - Canto	n Sample Receipt M	lultiple Cooler Form	
Cooler Desc	ription	IR Gun#	Observed	Corrected	Coolant
(Circle)	(Circle)	Temp °C	Temp °C	(Circle)
EC Client Box	x Other (IR-13 JR-16 IR-17	4.0	02	Wet ice Blue ice Dry ice Water None
EC Client Box	x Other	TR-13 /R-16 IR-17	3.4	3-2	Wet ice Blue Ice Dry Ice
CEC Client Box	c Other	IR-13 JR-16 IR-17	1.2	1.0	Wet ice Blue Ice Dry Ice Water None
EC Client Box	c Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client Box	c Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry Ice Water None
EC Client Box	c Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client Box	c Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client Box	Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client Box	Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client Box	c Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box	Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client Box	c Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box	c Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box	Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client Box	c Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client Box	c Other	IR-13 IR-16 IR-17			Wat ice Blue ice Dry ice Water None
EC Client Box	Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box	Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client Box	C Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box	Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client Box	Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client Box	Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client Box	Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box	Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box	Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box	Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box	Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box	Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client Box	Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box	Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box	Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box	Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box	Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box	Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
				☐ See Ter	mperature Excursion Form

WI-NC-099 Cooler Receipt Form Page 2 - Multiple Coolers

DATA VERIFICATION REPORT



March 08, 2023

Kris Hinskey Arcadis Inc 10559 Citation Ave Suite 100 Brighton, MI 48116

CADENA project ID: E203631

Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater

Project number: 30167538.402.04 off-site

Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Barberton

Laboratory submittal: 181119-1 Sample date: 2023-02-24

Report received by CADENA: 2023-03-08

Initial Data Verification completed by CADENA: 2023-03-08

Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC

Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

The following minor QC exceptions or missing information were noted:

GCMS VOC SIM QC batch MS/MSD issues as noted in the laboratory submittal case narrative were not used to qualify client sample results as part of this level 2 data package verification review.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the CADENA Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at http://clms.cadenaco.com/index.cfm.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI $48108\ 517\text{-}819\text{-}0356$

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
В	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
Е	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
J-	The result is an estimated quantity, but the result may be biased low.
JB	NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
JUB	NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Barberton

Laboratory Submittal: 181119-1

		Lab Sample ID:			TRIP BLANK_4 2401811191				MW-95S_022423 2401811192		
		Sample Date:	2/24/20	23							
				Report		Valid		Report		Valid	
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	
GC/MS VOC											
OSW-8260	<u>OD</u>										
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l		
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l		
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l		
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l		
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l		
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l		
OSW-8260	<u>ODSIM</u>										
	1,4-Dioxane	123-91-1					ND	2.0	ug/l		



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-181119-1

CADENA Verification Report: 2023-03-08

Analyses Performed By: Eurofins North Canton, Ohio

Report # 48925R Review Level: Tier III Project: 30167538.601.01

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-181119-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

			Sample Collection		Analysis		
Sample ID	Lab ID	Matrix	Date	Parent Sample	voc	VOC SIM	
TRIP BLANK_4	240-181119-1	Water	02/24/23		Х		
MW-95S_022423	240-181119-2	Water	02/24/23		Х	X	

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Rep	Reported		mance ptable	Not
	No		No	Yes	Required
Sample receipt condition		Х		Х	
2. Requested analyses and sample results		X		X	
Master tracking list		Х		Х	
4. Methods of analysis		Х		Х	
5. Reporting limits		Х		Х	
6. Sample collection date		Х		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		Х		Х	
Sample preparation/extraction/analysis dates		Х		Х	
10. Fully executed Chain-of-Custody (COC) form		Х		Х	
Narrative summary of Quality Assurance or sample problems provided		Х		Х	
12. Data Package Completeness and Compliance		Х		Х	

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D and 8260D SIM. Data were reviewed in accordance with USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999), as appropriate.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 - UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260D/8260D-SIM	Water	14 days from collection to analysis	Cool to < 6 °C; pH < 2 with HCl

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

3.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

3.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits.

4. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected for samples from this SDG.

6. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted		rmance eptable	Not
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation					-
System performance and column resolution		Х		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		Х	
lon abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	Х				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Hrishikesh Upadhyaya

SIGNATURE:

DATE: March 14, 2023

PEER REVIEW: Andrew Korycinski

DATE: March 15, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record



TestAmerica Laboratory location: Brighton - 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763 Client Contact Regulatory program: DW - NPDES □ RCRA Other Company Name: Arcadis TestAmerica Laboratories, Inc. Client Project Manager: Kris Hinskey Site Contact: Christina Weaver Lab Contact: Mike DelMonico Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-9396 City/State/Zip: Novi, MI, 48377 1 of 1 COCs Email: kristoffer.hinskey@arcadis.com Analysis Turnaround Time Analyses For lab use only Phone: 248-994-2240 TAT if different from below Walk-in client Sampler Name: Project Name: Ford LTP Off-Site 3 weeks WINE 2 weeks Lab sampling Project Number: 30167538.402.04 Method of Shipment/Carrier: 1 week Composite=C/Grab=G .4-Dioxane 8260B SIM Trans-1,2-DCE 8260B 2 days Vinyl Chloride 8260B cis-1,2-DCE 8260B PO # 30167538.402.04 Shipping/Tracking No: ☐ I day Job/SDG No Matrix Containers & Preservatives PCE 8260B TCE 8260B Sample Specific Notes / NaOH ZaAc/ HC Special Instructions: Sample Identification Sample Date | Sample Time TRIP BLANK_ G X X X 1 Trip Blank 3 VOAs for 8260B MW-955-022423 6 1200 6 3 VOAs for 8260B SIM Sample Disposal (A fee may be assessed if samples are retained longer than I month) Possible Hazard Identification Skin Irritant Unknown Disposal By Lab Flammable Poison B Return to Client Archive For Special Instructions/OC Requirements & Comments: Post, back you a Submit all results through Cadena at itomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested,

Company:

Relinquished by

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Page 329 of 331

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-181119-1 Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_4

Lab Sample ID: 240-181119-1

Date Collected: 02/24/23 00:00 **Matrix: Water** Date Received: 03/01/23 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/03/23 16:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/03/23 16:41	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/03/23 16:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/03/23 16:41	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/03/23 16:41	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/03/23 16:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137					03/03/23 16:41	1
4-Bromofluorobenzene (Surr)	83		56 - 136					03/03/23 16:41	1
Toluene-d8 (Surr)	91		78 - 122					03/03/23 16:41	1
Dibromofluoromethane (Surr)	96		73 - 120					03/03/23 16:41	1

Client Sample ID: MW-95S_022423 Lab Sample ID: 240-181119-2

Date Collected: 02/24/23 12:00 Date Received: 03/01/23 09:50

Dibromofluoromethane (Surr)

Method: SW846 8260D SIM	- Volatile Orga	anic Comp	ounds (GC/N	1S)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/02/23 22:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		66 - 120			_		03/02/23 22:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/03/23 20:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/03/23 20:27	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/03/23 20:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/03/23 20:27	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/03/23 20:27	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/03/23 20:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137					03/03/23 20:27	1
4-Bromofluorobenzene (Surr)	88		56 - 136					03/03/23 20:27	1
Toluene-d8 (Surr)	90		78 - 122					03/03/23 20:27	1

73 - 120

03/03/23 20:27

Matrix: Water