

## ANALYTICAL REPORT

Eurofins TestAmerica, Canton  
4101 Shuffel Street NW  
North Canton, OH 44720  
Tel: (330)497-9396

Laboratory Job ID: 240-159955-1  
Client Project/Site: Ford LTP - Off-Site

For:  
ARCADIS U.S., Inc.  
28550 Cabot Drive  
Suite 500  
Novi, Michigan 48377

Attn: Kristoffer Hinskey



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Authorized for release by:  
11/29/2021 8:30:31 AM

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*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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# Definitions/Glossary

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

Job ID: 240-159955-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
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

# Case Narrative

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

Job ID: 240-159955-1

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## Job ID: 240-159955-1

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Laboratory: Eurofins TestAmerica, Canton

### Narrative

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#### Job Narrative 240-159955-1

### Comments

No additional comments.

### Receipt

The samples were received on 11/12/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.6° C.

### GC/MS VOA

Method 8260B: The continuing calibration verification (CCV) associated with batch 513804 recovered above the upper control limit for Vinyl Chloride. The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported. The associated samples are impacted: TRIP BLANK\_111 (240-159955-1) and MW-90S\_111021 (240-159955-2).

Method 8260B: The laboratory control sample (LCS) for 513804 recovered outside control limits for Tetrachloroethene. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

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

### VOA Prep

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

# Method Summary

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

Job ID: 240-159955-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8260B SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
5030B	Purge and Trap	SW846	TAL CAN

**Protocol References:**

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

**Laboratory References:**

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396



# Sample Summary

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

Job ID: 240-159955-1

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<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
240-159955-1	TRIP BLANK_111	Water	11/10/21 00:00	11/12/21 08:00
240-159955-2	MW-90S_111021	Water	11/10/21 13:35	11/12/21 08:00

- 1
- 2
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- 7
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- 9
- 10
- 11
- 12
- 13
- 14

# Detection Summary

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

Job ID: 240-159955-1

**Client Sample ID: TRIP BLANK\_111**

**Lab Sample ID: 240-159955-1**

No Detections.

**Client Sample ID: MW-90S\_111021**

**Lab Sample ID: 240-159955-2**

No Detections.

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- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

# Client Sample Results

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

Job ID: 240-159955-1

**Client Sample ID: TRIP BLANK\_111**

**Lab Sample ID: 240-159955-1**

**Date Collected: 11/10/21 00:00**

**Matrix: Water**

**Date Received: 11/12/21 08:00**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/19/21 17:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/19/21 17:52	1
Tetrachloroethene	1.0	U **	1.0	0.44	ug/L			11/19/21 17:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/19/21 17:52	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/19/21 17:52	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/19/21 17:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		62 - 137		11/19/21 17:52	1
4-Bromofluorobenzene (Surr)	72		56 - 136		11/19/21 17:52	1
Toluene-d8 (Surr)	111		78 - 122		11/19/21 17:52	1
Dibromofluoromethane (Surr)	92		73 - 120		11/19/21 17:52	1



# Client Sample Results

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

Job ID: 240-159955-1

**Client Sample ID: MW-90S\_111021**

**Lab Sample ID: 240-159955-2**

Date Collected: 11/10/21 13:35

Matrix: Water

Date Received: 11/12/21 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/18/21 03:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		66 - 120		11/18/21 03:08	1

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/19/21 18:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/19/21 18:15	1
Tetrachloroethene	1.0	U *+	1.0	0.44	ug/L			11/19/21 18:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/19/21 18:15	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/19/21 18:15	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/19/21 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		62 - 137		11/19/21 18:15	1
4-Bromofluorobenzene (Surr)	70		56 - 136		11/19/21 18:15	1
Toluene-d8 (Surr)	115		78 - 122		11/19/21 18:15	1
Dibromofluoromethane (Surr)	92		73 - 120		11/19/21 18:15	1

# Surrogate Summary

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

Job ID: 240-159955-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	TOL	DBFM
		(62-137)	(56-136)	(78-122)	(73-120)
240-159953-A-2 MS	Matrix Spike	100	85	115	96
240-159953-D-2 MSD	Matrix Spike Duplicate	99	87	112	92
240-159955-1	TRIP BLANK_111	98	72	111	92
240-159955-2	MW-90S_111021	99	70	115	92
LCS 240-513804/4	Lab Control Sample	100	87	118	98
MB 240-513804/6	Method Blank	105	81	118	101

#### Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA
		(66-120)
240-159642-H-3 MS	Matrix Spike	87
240-159642-M-3 MSD	Matrix Spike Duplicate	87
240-159955-2	MW-90S_111021	87
LCS 240-513480/3	Lab Control Sample	84
MB 240-513480/4	Method Blank	84

#### Surrogate Legend

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

# QC Sample Results

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

Job ID: 240-159955-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 240-513804/6**  
**Matrix: Water**  
**Analysis Batch: 513804**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/19/21 15:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/19/21 15:38	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/19/21 15:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/19/21 15:38	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/19/21 15:38	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/19/21 15:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137		11/19/21 15:38	1
4-Bromofluorobenzene (Surr)	81		56 - 136		11/19/21 15:38	1
Toluene-d8 (Surr)	118		78 - 122		11/19/21 15:38	1
Dibromofluoromethane (Surr)	101		73 - 120		11/19/21 15:38	1

**Lab Sample ID: LCS 240-513804/4**  
**Matrix: Water**  
**Analysis Batch: 513804**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	10.0	11.0		ug/L		110	63 - 134
cis-1,2-Dichloroethene	10.0	11.0		ug/L		110	77 - 123
Tetrachloroethene	10.0	13.0	*+	ug/L		130	76 - 123
trans-1,2-Dichloroethene	10.0	10.8		ug/L		108	75 - 124
Trichloroethene	10.0	9.54		ug/L		95	70 - 122
Vinyl chloride	10.0	11.1		ug/L		111	60 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		62 - 137
4-Bromofluorobenzene (Surr)	87		56 - 136
Toluene-d8 (Surr)	118		78 - 122
Dibromofluoromethane (Surr)	98		73 - 120

**Lab Sample ID: 240-159953-A-2 MS**  
**Matrix: Water**  
**Analysis Batch: 513804**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	1.0	U	10.0	10.4		ug/L		104	56 - 135
cis-1,2-Dichloroethene	1.0	U	10.0	10.3		ug/L		103	66 - 128
Tetrachloroethene	1.0	U *+	10.0	10.2		ug/L		102	62 - 131
trans-1,2-Dichloroethene	1.0	U	10.0	10.4		ug/L		104	56 - 136
Trichloroethene	1.0	U	10.0	8.59		ug/L		86	61 - 124
Vinyl chloride	1.0	U	10.0	10.2		ug/L		102	43 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		62 - 137
4-Bromofluorobenzene (Surr)	85		56 - 136
Toluene-d8 (Surr)	115		78 - 122

# QC Sample Results

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

Job ID: 240-159955-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-159953-A-2 MS  
Matrix: Water  
Analysis Batch: 513804

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

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	96		73 - 120

Lab Sample ID: 240-159953-D-2 MSD  
Matrix: Water  
Analysis Batch: 513804

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	1.0	U	10.0	9.86		ug/L		99	56 - 135	5	26
cis-1,2-Dichloroethene	1.0	U	10.0	9.79		ug/L		98	66 - 128	5	14
Tetrachloroethene	1.0	U *+	10.0	9.63		ug/L		96	62 - 131	6	20
trans-1,2-Dichloroethene	1.0	U	10.0	9.82		ug/L		98	56 - 136	5	15
Trichloroethene	1.0	U	10.0	8.28		ug/L		83	61 - 124	4	15
Vinyl chloride	1.0	U	10.0	10.7		ug/L		107	43 - 157	5	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		62 - 137
4-Bromofluorobenzene (Surr)	87		56 - 136
Toluene-d8 (Surr)	112		78 - 122
Dibromofluoromethane (Surr)	92		73 - 120

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

Lab Sample ID: MB 240-513480/4  
Matrix: Water  
Analysis Batch: 513480

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/17/21 19:58	1

  

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		66 - 120		11/17/21 19:58	1

Lab Sample ID: LCS 240-513480/3  
Matrix: Water  
Analysis Batch: 513480

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	10.0	9.37		ug/L		94	80 - 122

  

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		66 - 120

Lab Sample ID: 240-159642-H-3 MS  
Matrix: Water  
Analysis Batch: 513480

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	2.0	U F1	10.0	10.3		ug/L		103	51 - 153

Eurofins TestAmerica, Canton

# QC Sample Results

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

Job ID: 240-159955-1

## Method: 8260B SIM - Volatile Organic Compounds (GC/MS) (Continued)

<i>Surrogate</i>	<i>MS</i> <i>%Recovery</i>	<i>MS</i> <i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	87		66 - 120

**Lab Sample ID: 240-159642-M-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 513480**

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

<i>Analyte</i>	<i>Sample</i> <i>Result</i>	<i>Sample</i> <i>Qualifier</i>	<i>Spike</i> <i>Added</i>	<i>MSD</i> <i>Result</i>	<i>MSD</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i> <i>Limits</i>	<i>RPD</i>	<i>RPD</i> <i>Limit</i>
1,4-Dioxane	2.0	U F1	10.0	9.57		ug/L		96	51 - 153	7	16

<i>Surrogate</i>	<i>MSD</i> <i>%Recovery</i>	<i>MSD</i> <i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	87		66 - 120

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# QC Association Summary

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

Job ID: 240-159955-1

## GC/MS VOA

### Analysis Batch: 513480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-159955-2	MW-90S_111021	Total/NA	Water	8260B SIM	
MB 240-513480/4	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-513480/3	Lab Control Sample	Total/NA	Water	8260B SIM	
240-159642-H-3 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-159642-M-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

### Analysis Batch: 513804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-159955-1	TRIP BLANK_111	Total/NA	Water	8260B	
240-159955-2	MW-90S_111021	Total/NA	Water	8260B	
MB 240-513804/6	Method Blank	Total/NA	Water	8260B	
LCS 240-513804/4	Lab Control Sample	Total/NA	Water	8260B	
240-159953-A-2 MS	Matrix Spike	Total/NA	Water	8260B	
240-159953-D-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

# Lab Chronicle

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

Job ID: 240-159955-1

**Client Sample ID: TRIP BLANK\_111**

**Lab Sample ID: 240-159955-1**

**Date Collected: 11/10/21 00:00**

**Matrix: Water**

**Date Received: 11/12/21 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	513804	11/19/21 17:52	LEE	TAL CAN

**Client Sample ID: MW-90S\_111021**

**Lab Sample ID: 240-159955-2**

**Date Collected: 11/10/21 13:35**

**Matrix: Water**

**Date Received: 11/12/21 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	513804	11/19/21 18:15	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	513480	11/18/21 03:08	CS	TAL CAN

### Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

# Accreditation/Certification Summary

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

Job ID: 240-159955-1

## Laboratory: Eurofins TestAmerica, 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	02-23-22
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-22
Georgia	State	4062	02-23-22
Illinois	NELAP	200004	07-31-22
Iowa	State	421	06-01-23
Kansas	NELAP	E-10336	04-30-22
Kentucky (UST)	State	112225	02-23-22
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-22
New York	NELAP	10975	03-31-22
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-22
Texas	NELAP	T104704517-18-10	08-31-22
Virginia	NELAP	11570	09-14-22
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21



Chain of Custody Record

TestAmerica Laboratory location: Brighton -- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763

Company Name: Arcadis		Regulatory program: DW NPDES RCRA Other	
Address: 28550 Cabot Drive, Suite 500		Lab Contact: Mike DellMoro	
City/State/Zip: Novi, MI, 48377		Telephone: 330-497-9396	
Phone: 248-994-2240		COC No: 1 of 1	
Project Name: Ford LTP Off-Site		Walk-in client	
Project Number: 30080642.402.04		Lab sampling	
PO # 30080642.402.04		Job/SDG No:	
Client Contact: Arcadis		Sample Specific Notes / Special Instructions:	
Client Project Manager: Kris Hinskey		1 Trip Blank	
Telephone: 248-994-2240		3 VOAs for 8260B	
Email: kristoffer.hinskey@arcadis.com		3 VOAs for 8260B SIM	
Sampler Name: Sommer Guy			
Method of Shipment/Carrier:			
Shipping/Tracking No:			
Analysis Turnaround Time		Analyses	
TAT if different from below		1,4-Dioxane 8260B SIM	
10 day		TCE 8260B	
3 weeks		PCE 8260B	
2 weeks		Trans-1,2-DCE 8260B	
1 week		cis-1,2-DCE 8260B	
2 days		1,1-DCE 8260B	
1 day		Composite-C / Grab-G	
Filtered Sample (Y/N)		Filtered Sample (Y/N)	
Containers & Preservatives		Filtered Sample (Y/N)	
H2SO4		Composite-C / Grab-G	
HNO3		1,1-DCE 8260B	
HCl		Trans-1,2-DCE 8260B	
NaOH		PCE 8260B	
ZnAc		TCE 8260B	
NaOH		1,4-Dioxane 8260B SIM	
Unpres			
Others			
Matrix			
Aqueous			
Sediment			
Solid			
Other:			
Sample Date		Sample Time	
--		--	
11/10/21		13:35	
Sample Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
TRIP BLANK_111		Return to Client	
MW-905-111021		Disposal By/Lab	
		Archive For: Months	
		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
		Return to Client	
		Disposal By/Lab	
		Archive For: Months	
		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
		Return to Client	
		Disposal By/Lab	
		Archive For: Months	



Relinquished by: Sommer Guy	Company: Arcadis	Date/Time: 11/10/21 16:00	Received by: Novi Cold Storage	Company: Arcadis	Date/Time: 11/10/21 16:00
Relinquished by: <del>Chatter WUB</del>	Company: Arcadis	Date/Time: 11/11/21 0950	Received by: Lewi Hoel	Company: ETA	Date/Time: 11/11/21 0950
Relinquished by: Lewi Hoel	Company: ETA	Date/Time: 11-11-21 1046	Received in Laboratory by: M. S. A.	Company: ETA	Date/Time: 11/12/21 8:30

Submit all results through Cadena at jtomalia@cadenaco.com Cadena #E203631  
Level IV Reporting requested

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Eurofins TestAmerica Canton Sample Receipt Form/Narrative

Login #: 154955

Canton Facility

Client Arcadis Site Name

Cooler unpacked by: Matthew Surma

Cooler Received on 11/12/21 Opened on 11/12/21

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # TA Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

- 1. Cooler temperature upon receipt... IR GUN# IR-14... IR GUN #IR-15... 2. Were tamper/custody seals on the outside of the cooler(s)?... 3. Shippers' packing slip attached to the cooler(s)?... 4. Did custody papers accompany the sample(s)?... 5. Were the custody papers relinquished & signed in the appropriate place?... 6. Was/were the person(s) who collected the samples clearly identified on the COC?... 7. Did all bottles arrive in good condition (Unbroken)?... 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?... 9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?... 10. Were correct bottle(s) used for the test(s) indicated?... 11. Sufficient quantity received to perform indicated analyses?... 12. Are these work share samples and all listed on the COC?... 13. Were all preserved sample(s) at the correct pH upon receipt?... 14. Were VOAs on the COC?... 15. Were air bubbles >6 mm in any VOA vials?... 16. Was a VOA trip blank present in the cooler(s)?... 17. Was a LL Hg or Me Hg trip blank present?...

Tests that are not checked for pH by Receiving: VOAs Oil and Grease TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page

Samples processed by:

NO SIM on TB per corrected COC. Date 11/12/21

19. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired. Sample(s) were received in a broken container. Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory. Time preserved: Preservative(s) added/Lot number(s)

VOA Sample Preservation - Date/Time VOAs Frozen:

# DATA VERIFICATION REPORT



November 29, 2021

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: 30080642.402.04 WA03 OFF-SITE GW  
Event Specific Scope of Work References: Sample COC  
Laboratory: TestAmerica - North Canton  
Laboratory submittal: 159955-1  
Sample date: 2021-11-10  
Report received by CADENA: 2021-11-29  
Initial Data Verification completed by CADENA: 2021-11-29  
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 QC batch 513804 LCS recovery was outlying biased high for the following analyte: TETRACHLOROETHENE. Associated client sample results were non-detect so qualification was not required based on this high bias QC outlier.

GCMS VOC QC batch CCV response outliers 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 517-819-0356

## CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
B	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 contaminants) 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.
E	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 contaminants) 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

## Reportable Results Only

CADENA Project ID: E203631

Laboratory: TestAmerica - North Canton

Laboratory Submittal: 159955-1

Sample Name: TRIP BLANK\_111 MW-90S\_111021  
Lab Sample ID: 2401599551 2401599552  
Sample Date: 11/10/2021 11/10/2021

Analyte	Cas No.	Report		Units	Valid Qualifier	Report		Units	Valid Qualifier	
		Result	Limit			Result	Limit			
<b>GC/MS VOC</b>										
<u>OSW-8260B</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	---	
<u>OSW-8260BBSim</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 # 240-159955-1

CADENA Verification Report: 2021-11-29

Analyses Performed By:  
TestAmerica  
North Canton, Ohio

Report # 43711R  
Review Level: Tier III  
Project: 30080642.402.04



## DATA REVIEW

### SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-159955-1 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) includes 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 ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis	
					VOC	VOC SIM
TRIP BLANK_111	240-159955-1	Water	11/10/21		X	
MW-90S_111021	240-159955-2	Water	11/10/21		X	X



## DATA REVIEW

### ANALYTICAL DATA PACKAGE DOCUMENTATION

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

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

## DATA REVIEW

### ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260B and 8260B SIM. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

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.
  - J+ The result is an estimated quantity, but the result may be biased high.
  - J- The result is an estimated quantity, but the result may be biased low.
  - UB Analyte considered non-detect at the listed value due to associated blank contamination.
  - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
  - 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.

## DATA REVIEW

### 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 8260B/8260B-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, with the exception of the compounds presented in the following table.

Sample ID	Initial / Continuing	Compound	Criteria
TRIP BLANK_111 MW-90S_111021	Continuous Calibration Verification %D	Vinyl chloride	+30.0%
		cis-1,2-Dichloroethene	+20.5%
		Tetrachloroethene	+21.1%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01 <sup>1</sup>	Non-detect	R
		Detect	J

## DATA REVIEW

Initial/Continuing	Criteria	Sample Result	Qualification
	RRF >0.05 or RRF >0.01 <sup>1</sup>	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 20% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
	%RSD > 90%	Non-detect	R
		Detect	J
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D > 90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

Note:

<sup>1</sup>RRF of 0.01 only applies to compounds which are typically poor responding compounds

### 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 REVIEW

### DATA VALIDATION CHECKLIST FOR VOCs

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

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

**DATA REVIEW**

VALIDATION PERFORMED BY: Hrishikesh Upadhyaya

SIGNATURE: 

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DATE: December 16, 2021

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PEER REVIEW: Andrew Korycinski

DATE: December 16, 2021

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**NO CORRECTIONS/QUALIFIERS ADDED  
TO SAMPLE ANALYSIS DATA SHEETS**

**CHAIN OF CUSTODY  
CORRECTED SAMPLE ANALYSIS DATA  
SHEETS**







# Client Sample Results

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

Job ID: 240-159955-1

**Client Sample ID: TRIP BLANK\_111**

**Lab Sample ID: 240-159955-1**

**Date Collected: 11/10/21 00:00**

**Matrix: Water**

**Date Received: 11/12/21 08:00**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/19/21 17:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/19/21 17:52	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/19/21 17:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/19/21 17:52	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/19/21 17:52	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/19/21 17:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		62 - 137		11/19/21 17:52	1
4-Bromofluorobenzene (Surr)	72		56 - 136		11/19/21 17:52	1
Toluene-d8 (Surr)	111		78 - 122		11/19/21 17:52	1
Dibromofluoromethane (Surr)	92		73 - 120		11/19/21 17:52	1

**Client Sample ID: MW-90S\_111021**

**Lab Sample ID: 240-159955-2**

**Date Collected: 11/10/21 13:35**

**Matrix: Water**

**Date Received: 11/12/21 08:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/18/21 03:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		66 - 120		11/18/21 03:08	1

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/19/21 18:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/19/21 18:15	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/19/21 18:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/19/21 18:15	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/19/21 18:15	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/19/21 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		62 - 137		11/19/21 18:15	1
4-Bromofluorobenzene (Surr)	70		56 - 136		11/19/21 18:15	1
Toluene-d8 (Surr)	115		78 - 122		11/19/21 18:15	1
Dibromofluoromethane (Surr)	92		73 - 120		11/19/21 18:15	1