

ANALYTICAL REPORT

Job Number: 180-129532-2

Job Description: Vo Toys - Harrison, NJ

For:

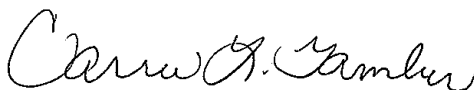
Anchor QEA LLC

1201 3rd Ave

Suite 2600

Seattle, WA 98101

Attention: Cindy Fields



Approved for release.
Carrie L. Gamber
Senior Project Manager
12/16/2021 3:25 PM

Carrie L Gamber, Senior Project Manager
301 Alpha Drive, Pittsburgh, PA, 15238
(412)963-2428
Carrie.Gamber@Eurofinset.com
12/16/2021

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238

Tel (412) 963-7058 Fax (412) 963-2468 www.testamericainc.com



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Definitions/Glossary

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-129532-2

Qualifiers

General Chemistry

Qualifier	Qualifier Description
!	Laboratory is not accredited for this parameter.

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: Anchor QEA LLC

Project: Vo Toys - Harrison, NJ

Report Number: 180-129532-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 11/04/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.8 C.

PH

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

Detection Summary

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-129532-2

Client Sample ID: T1-WC-A-FL-C-2111011530 Lab Sample ID: 180-129532-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
TCLP pH Post-Leach	5.7	!	0.1	0.1	SU	1			1311	TCLP

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-129532-2

General Chemistry - TCLP

Client Sample ID: T1-WC-A-FL-C-2111011530

Date Collected: 11/01/21 15:30

Date Received: 11/04/21 10:45

Lab Sample ID: 180-129532-2

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TCLP pH Post-Leach	5.7	!	0.1	0.1	SU			12/13/21 16:22	1

Default Detection Limits

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-129532-2

General Chemistry - TCLP

Analyte	RL	MDL	Units
TCLP pH Post-Leach	0.1	0.1	SU

QC Association Summary

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-129532-2

General Chemistry

Analysis Batch: 382023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129532-2	T1-WC-A-FL-C-2111011530	TCLP	Solid	1311	

Lab Chronicle

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-129532-2

Client Sample ID: T1-WC-A-FL-C-2111011530
Date Collected: 11/01/21 15:30
Date Received: 11/04/21 10:45

Lab Sample ID: 180-129532-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	1311		1			382023	12/13/21 16:22	GRN	TAL PIT
Instrument ID: NOEQUIP										

Laboratory References:
TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:
Lab: TAL PIT
Batch Type: Analysis
GRN = Gavin Nicholls

Accreditation/Certification Summary

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-129532-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	02-00416	04-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
1311		Solid	TCLP pH Post-Leach

Method Summary

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-129532-2

Method	Method Description	Protocol	Laboratory
1311	TCLP pH Post Leach	SW846	TAL PIT

Protocol References:

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

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Sample Summary

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-129532-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-129532-2	T1-WC-A-FL-C-2111011530	Solid	11/01/21 15:30	11/04/21 10:45

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Pittsburgh Job Number: 180-129532-2

SDG No.: _____

Project: Vo Toys - Harrison, NJ

Client Sample ID
T1-WC-A-FL-C-2111011530

Lab Sample ID
180-129532-2

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - TCLP

Client Sample ID: T1-WC-A-FL-C-2111011530

Lab Sample ID: 180-129532-2

Lab Name: Eurofins TestAmerica, Pittsburgh

Job No.: 180-129532-2

SDG ID.:

Matrix: Solid

Date Sampled: 11/01/2021 15:30

Reporting Basis: WET

Date Received: 11/04/2021 10:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	TCLP pH Post-Leach	5.7	0.1	0.1	SU		!	1	1311

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY - TCLP

Lab Name: Eurofins TestAmerica, Pittsburg Job Number: 180-129532-2
SDG Number: _____
Matrix: Solid Instrument ID: NOEQUIP
Method: 1311 RL Date: 07/09/2019 10:56

Analyte	Wavelength/ Mass	RL (SU)	
TCLP pH Post-Leach		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY - TCLP

Lab Name: Eurofins TestAmerica, Pittsburg Job Number: 180-129532-2
SDG Number: _____
Matrix: Solid Instrument ID: NOEQUIP
Method: 1311 XRL Date: 07/09/2019 10:57

Analyte	Wavelength/ Mass	XRL (SU)	
TCLP pH Post-Leach		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Pittsburgh Job No.: 180-129532-2

SDG No.: _____

Instrument ID: NOEQUIP Analysis Method: 1311

Start Date: 12/13/2021 16:22 End Date: 12/13/2021 16:22

Lab Sample Id	D/F	T y p e	Time	Analytes																									
				T C L P H																									
180-129532-2	1	P	16:22	X																									

Prep Types: _____
P = TCLP

General Chemistry Raw Data Report

Job ID: 180-129532-2

Batch: 382023
Method: 1311


Analyst Initials: GRN
Instrument: No Equipment

Lab Sample ID: 180-129532-A-2

Analysis Date: Dec 13, 2021 16:22

Analyte	Detector	Dilution	Raw Result	Unit
TCLP pH Post-Leach	None	1	5.70	SU

Shipping and Receiving Documents



COC ID:

30211101-1534

TURNAROUND TIME: ASAP - 10 Day as discussed with Carrie CRUSH:

PROJECT/CLIENT INFO										LABORATORY				OTHER INFO			
Project Name		GE Vo-Toys								Lab Name		Eurofins TestAmerica		Email Invoice To			
Project Number		160469-02.16 T2								Lab Contact		Carrie Gamber		Invoice Reports			
Department										Email				Email Report To			
Address		68 Excelsior Ave								Address		301 Alpha Drive		Email Reports			
		Suite 101												Shipping Company			
City		Saratoga Springs				State		NY		City		Pittsburg		Tracking Number			
Postal Code		12866				Country		USA		Postal Code		15238		Cooler Count			
Phone Number		518-860-2963								Phone Number		412-963-2428		Cooler Description			
Point of Contact		Luke Jeffs								Quote Number				Sampler 2			
Email Address		ljeffs@anchorqa.com								PO Number				Sampler 3			

SAMPLE DETAILS										ANALYSES REQUESTED									
Sample ID	Start Depth	End Depth	Depth Unit	Field Matrix	Date	Time (24hr)	MS/MS D	# Of Cont.		PER	PREP	ANALYSIS							
TI-WC-A-PL-C-211101130			in	SP	2021/11/01	15:15	N	2				TCLP_VOCs							
TI-WC-A-PL-C-211101130			in	SP	2021/11/01	15:30	N	4				Form V Parameters							

ADDITIONAL COMMENTS/SPECIAL INSTRUCTIONS

Per discussion w/ Cindy Fields + Carrie Gamber we would like this analyzed for the form V parameters and a grab sample for VOCs.

RELINQUISHED BY/AFFILIATION

A. Bleichner / AQ

DATE/TIME

11/3/2021 1300

ACCEPTED BY/AFFILIATION

Duration BIAHA

DATE/TIME

11-9-21 10:45

NO OF BOTTLES RETURNED/DESCRIPTION

Sampler's Name

Alexander Bleichner

Mobile #

5188488195

Sampler's Signature

Alexander Bleichner

Date/Time

11/3/2021 1300



ORIGIN ID:GFLA (518) 886-0643
 SARATOGA SPRINGS
 ANCHOR QEA
 68 EXCELSIOR AVENUE
 SUITE 101
 SARATOGA SPRINGS, NY 12866
 UNITED STATES US

SHIP DATE: 03NOV21
 ACTWGT: 33.00 LB
 CAD: 109495568/NET4400
 DIMS: 23x14x15 IN
 BILL SENDER

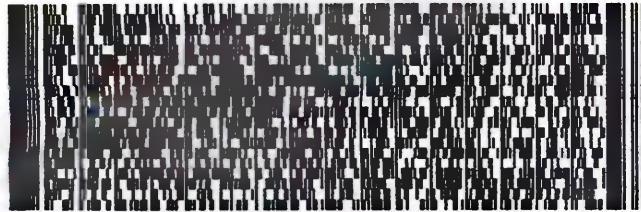
TO **CARRIE GAMBER**
EUROFINS TESTAMERICA
301 ALPHA DRIVE

PITTSBURGH PA 15238

(412) 963-2428
 INV:
 PO: TNOWAK

REF: 160469-02.16 T2

DEPT: ENVIRONMENTAL SAMPLES



560J29N7EFE4A

TRK#
 0201 **7751 0644 5884**

THU - 04 NOV 11:30A
PRIORITY OVERNIGHT

XN AGCA

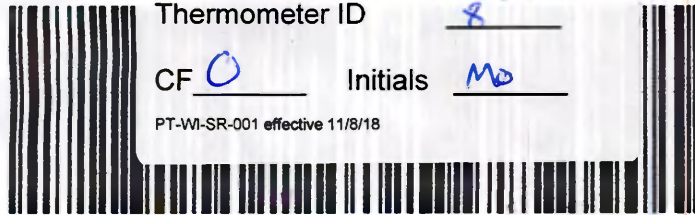
15238
PIT

Uncorrected temp
 Thermometer ID

3.8
 8 °C

CF 0 Initials MD

PT-WI-SR-001 effective 11/8/18



Chain under hood

Anchor
 QEA

After printing this label:

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180-129532 Waybill

[illegible]

Login Sample Receipt Checklist

Client: Anchor QEA LLC

Job Number: 180-129532-2

Login Number: 129532
List Number: 1
Creator: Watson, Debbie

List Source: Eurofins TestAmerica, Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Job Number: 180-132081-1

Job Description: Vo Toys - Harrison, NJ

For:

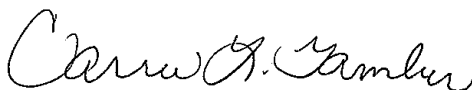
Anchor QEA LLC

1201 3rd Ave

Suite 2600

Seattle, WA 98101

Attention: Cindy Fields



Approved for release.
Carrie L Gamber
Senior Project Manager
2/9/2022 2:28 PM

Carrie L Gamber, Senior Project Manager

301 Alpha Drive, Pittsburgh, PA, 15238

(412)963-2428

Carrie.Gamber@Eurofinset.com

02/09/2022

Revision: 1

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Eurofins Pittsburgh

301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238

Tel (412) 963-7058 Fax (412) 963-2468 www.EurofinsUS.com

PA Lab ID: 02-00416



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Definitions/Glossary

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
FH	MS and/or MSD recovery above control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Analyte was found in the blank.
F2	MS/MSD RPD exceeds control limits
FH	MS and/or MSD recovery above control limits.
FL	MS and/or MSD recovery below control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
!	Laboratory is not accredited for this parameter.
FL	MS and/or MSD recovery below control limits.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations 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
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

Definitions/Glossary

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

CASE NARRATIVE

Client: Anchor QEA LLC

Project: Vo Toys - Harrison, NJ

Report Number: 180-132081-1 REVISED

NOTE: This report was revised to remove the extra TCLP pH LB sample that was inadvertently linked to this job and also to report the updated painter filter result per the client's request.

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 1/7/2022 10:30 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 2.8° C.

The samples received did not match the information listed on the Chain-of-Custody (COC): T1-WC-B-FL-D-2201051234-0-12 (180-132081-3) and T1-WC-B-FL-D-2201051520-0-12 (180-132081-4). There are two samples listed on the COC and per the client the PCB and VOA containers were logged in as a grab sample.

VOLATILES

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 180-384838 and analytical batch 180-384914 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 180-384914 recovered outside control limits for the following analytes: 1,1-Dichloroethene.

SEMIVOLATILES

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

PESTICIDES

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

PCB

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

HERBICIDES

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

METALS

Cadmium was detected in method blank LB 180-384835/1-D at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

As shown on the raw data pages, the MS exceeded the upper calibration limit for the instrument which calculates to 143% and warrants the F1 flag as well as the F2 flag for having the %RSD be greater than the control limit of 20 between the MS & MSD. This may be due to a spiking error more than matrix interference or non-homogeneity. Samples affected are: T1-WC-B-FL-D-2201051234-0-12 (180-132081-1), (180-132081-B-1-I MS) and (180-132081-B-1-J MSD)

Mercury failed the recovery criteria low for the MS of sample T1-WC-B-FL-D-2201051234-0-12MS (180-132081-1) in batch 180-385098.

GENERAL CHEMISTRY

TCLP pH Post-Leach was detected in method blank LB 180-384835/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 180-384936 and analytical batch 180-384998 for Oil and Grease were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Detection Summary

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12

Lab Sample ID: 180-132081-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	0.81	J F2 FH	2.0	0.063	mg/L	1			EPA 6010D	TCLP
Zinc	0.11	J	0.20	0.026	mg/L	1			EPA 6010D	TCLP
Mercury	0.0035	FL	0.00020	0.00013	mg/L	1			EPA 7470A	TCLP
Ignitability	>140				Degrees F	1			EPA 1020B	Total/NA
pH	6.6	HF	0.1	0.1	SU	1			EPA 9045D	Total/NA
Free Liquid	CNF				NONE	1			EPA 9095B	Total/NA
Total Volatile Solids	1.7		0.50	0.50	%	1			SM 2540G	Total/NA
Total Solids	90		0.50	0.50	%	1			SM 2540G	Total/NA
TCLP pH Post-Leach	4.9	!	0.1	0.1	SU	1			1311	TCLP
Oil & Grease (HEM)	6.8		5.1	4.4	mg/L	1			EPA 1664B	ASTM Leach
Chemical Oxygen Demand	29		10	9.1	mg/L	1			EPA 410.4	ASTM Leach

Client Sample ID: T1-WC-B-FL-D-2201051520-0-12

Lab Sample ID: 180-132081-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	0.71	J	2.0	0.063	mg/L	1			EPA 6010D	TCLP
Cadmium	0.0044	J B	0.50	0.0030	mg/L	1			EPA 6010D	TCLP
Lead	0.051	J	0.50	0.044	mg/L	1			EPA 6010D	TCLP
Zinc	0.70		0.20	0.026	mg/L	1			EPA 6010D	TCLP
Ignitability	>140				Degrees F	1			EPA 1020B	Total/NA
pH	8.7	HF	0.1	0.1	SU	1			EPA 9045D	Total/NA
Free Liquid	CNF				NONE	1			EPA 9095B	Total/NA
Total Volatile Solids	2.6		0.50	0.50	%	1			SM 2540G	Total/NA
Total Solids	89		0.50	0.50	%	1			SM 2540G	Total/NA
TCLP pH Post-Leach	5.0	!	0.1	0.1	SU	1			1311	TCLP
Chemical Oxygen Demand	19		10	9.1	mg/L	1			EPA 410.4	ASTM Leach
Total Solids	24		10	10	mg/L	1			SM 2540B	ASTM Leach

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12

Lab Sample ID: 180-132081-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
PCB-1254	32		18	5.4	ug/Kg	1		☼	EPA 8082A	Total/NA

Client Sample ID: T1-WC-B-FL-D-2201051520-0-12

Lab Sample ID: 180-132081-4

No Detections.

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

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

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12

Lab Sample ID: 180-132081-3

Date Collected: 01/05/22 12:34

Matrix: Solid

Date Received: 01/07/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND	FH	0.20	0.029	mg/L			01/12/22 18:24	1
2-Butanone (MEK)	ND		0.20	0.058	mg/L			01/12/22 18:24	1
Benzene	ND	FH	0.20	0.039	mg/L			01/12/22 18:24	1
Carbon tetrachloride	ND		0.20	0.066	mg/L			01/12/22 18:24	1
Chlorobenzene	ND		0.20	0.031	mg/L			01/12/22 18:24	1
Chloroform	ND	FH	0.20	0.042	mg/L			01/12/22 18:24	1
Tetrachloroethene	ND		0.20	0.040	mg/L			01/12/22 18:24	1
Trichloroethene	ND	FH	0.20	0.030	mg/L			01/12/22 18:24	1
Vinyl chloride	ND		0.20	0.073	mg/L			01/12/22 18:24	1
1,1-Dichloroethene	ND	*1	0.20	0.057	mg/L			01/12/22 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		52 - 151		01/12/22 18:24	1
4-Bromofluorobenzene (Surr)	75		49 - 118		01/12/22 18:24	1
Dibromofluoromethane (Surr)	80		60 - 132		01/12/22 18:24	1
Toluene-d8 (Surr)	79		53 - 124		01/12/22 18:24	1

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

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

Client Sample ID: T1-WC-B-FL-D-2201051520-0-12

Lab Sample ID: 180-132081-4

Date Collected: 01/05/22 15:20

Matrix: Solid

Date Received: 01/07/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.20	0.029	mg/L			01/12/22 15:28	1
2-Butanone (MEK)	ND		0.20	0.058	mg/L			01/12/22 15:28	1
Benzene	ND		0.20	0.039	mg/L			01/12/22 15:28	1
Carbon tetrachloride	ND		0.20	0.066	mg/L			01/12/22 15:28	1
Chlorobenzene	ND		0.20	0.031	mg/L			01/12/22 15:28	1
Chloroform	ND		0.20	0.042	mg/L			01/12/22 15:28	1
Tetrachloroethene	ND		0.20	0.040	mg/L			01/12/22 15:28	1
Trichloroethene	ND		0.20	0.030	mg/L			01/12/22 15:28	1
Vinyl chloride	ND		0.20	0.073	mg/L			01/12/22 15:28	1
1,1-Dichloroethene	ND	*1	0.20	0.057	mg/L			01/12/22 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	140		52 - 151		01/12/22 15:28	1
4-Bromofluorobenzene (Surr)	114		49 - 118		01/12/22 15:28	1
Dibromofluoromethane (Surr)	122		60 - 132		01/12/22 15:28	1
Toluene-d8 (Surr)	120		53 - 124		01/12/22 15:28	1

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Method: EPA 8270E - Semivolatile Organic Compounds (GC/MS) - TCLP

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12

Date Collected: 01/05/22 12:34

Date Received: 01/07/22 10:30

Lab Sample ID: 180-132081-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.050	0.0045	mg/L		01/13/22 09:30	01/17/22 18:02	1
2,4,5-Trichlorophenol	ND		0.050	0.0079	mg/L		01/13/22 09:30	01/17/22 18:02	1
2,4,6-Trichlorophenol	ND		0.050	0.0095	mg/L		01/13/22 09:30	01/17/22 18:02	1
2,4-Dinitrotoluene	ND		0.050	0.0079	mg/L		01/13/22 09:30	01/17/22 18:02	1
Cresols, Total	ND		0.10	0.012	mg/L		01/13/22 09:30	01/17/22 18:02	1
Hexachlorobenzene	ND		0.050	0.0055	mg/L		01/13/22 09:30	01/17/22 18:02	1
Hexachlorobutadiene	ND		0.050	0.0084	mg/L		01/13/22 09:30	01/17/22 18:02	1
Hexachloroethane	ND		0.050	0.0040	mg/L		01/13/22 09:30	01/17/22 18:02	1
m & p-Cresol	ND		0.050	0.0079	mg/L		01/13/22 09:30	01/17/22 18:02	1
Nitrobenzene	ND		0.050	0.012	mg/L		01/13/22 09:30	01/17/22 18:02	1
o-Cresol	ND		0.050	0.0040	mg/L		01/13/22 09:30	01/17/22 18:02	1
Pentachlorophenol	ND		0.25	0.0075	mg/L		01/13/22 09:30	01/17/22 18:02	1
Pyridine	ND		0.10	0.0082	mg/L		01/13/22 09:30	01/17/22 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	38		32 - 115	01/13/22 09:30	01/17/22 18:02	1
2-Fluorobiphenyl	66		55 - 105	01/13/22 09:30	01/17/22 18:02	1
2-Fluorophenol (Surr)	68		55 - 105	01/13/22 09:30	01/17/22 18:02	1
Nitrobenzene-d5 (Surr)	70		55 - 109	01/13/22 09:30	01/17/22 18:02	1
Phenol-d5 (Surr)	53		48 - 105	01/13/22 09:30	01/17/22 18:02	1
Terphenyl-d14 (Surr)	83		37 - 107	01/13/22 09:30	01/17/22 18:02	1

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Method: EPA 8270E - Semivolatile Organic Compounds (GC/MS) - TCLP

Client Sample ID: T1-WC-B-FL-D-2201051520-0-12

Date Collected: 01/05/22 15:20

Date Received: 01/07/22 10:30

Lab Sample ID: 180-132081-2

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.050	0.0045	mg/L		01/13/22 09:30	01/17/22 18:25	1
2,4,5-Trichlorophenol	ND		0.050	0.0079	mg/L		01/13/22 09:30	01/17/22 18:25	1
2,4,6-Trichlorophenol	ND		0.050	0.0095	mg/L		01/13/22 09:30	01/17/22 18:25	1
2,4-Dinitrotoluene	ND		0.050	0.0079	mg/L		01/13/22 09:30	01/17/22 18:25	1
Cresols, Total	ND		0.10	0.012	mg/L		01/13/22 09:30	01/17/22 18:25	1
Hexachlorobenzene	ND		0.050	0.0055	mg/L		01/13/22 09:30	01/17/22 18:25	1
Hexachlorobutadiene	ND		0.050	0.0084	mg/L		01/13/22 09:30	01/17/22 18:25	1
Hexachloroethane	ND		0.050	0.0040	mg/L		01/13/22 09:30	01/17/22 18:25	1
m & p-Cresol	ND		0.050	0.0079	mg/L		01/13/22 09:30	01/17/22 18:25	1
Nitrobenzene	ND		0.050	0.012	mg/L		01/13/22 09:30	01/17/22 18:25	1
o-Cresol	ND		0.050	0.0040	mg/L		01/13/22 09:30	01/17/22 18:25	1
Pentachlorophenol	ND		0.25	0.0075	mg/L		01/13/22 09:30	01/17/22 18:25	1
Pyridine	ND		0.10	0.0082	mg/L		01/13/22 09:30	01/17/22 18:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	47		32 - 115				01/13/22 09:30	01/17/22 18:25	1
2-Fluorobiphenyl	76		55 - 105				01/13/22 09:30	01/17/22 18:25	1
2-Fluorophenol (Surr)	80		55 - 105				01/13/22 09:30	01/17/22 18:25	1
Nitrobenzene-d5 (Surr)	79		55 - 109				01/13/22 09:30	01/17/22 18:25	1
Phenol-d5 (Surr)	63		48 - 105				01/13/22 09:30	01/17/22 18:25	1
Terphenyl-d14 (Surr)	95		37 - 107				01/13/22 09:30	01/17/22 18:25	1

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Method: EPA 8081B - Organochlorine Pesticides (GC) - TCLP

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12

Date Collected: 01/05/22 12:34

Date Received: 01/07/22 10:30

Lab Sample ID: 180-132081-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0050	0.0029	mg/L		01/13/22 08:45	01/17/22 11:25	1
Endrin	ND		0.00050	0.000091	mg/L		01/13/22 08:45	01/17/22 11:25	1
gamma-BHC (Lindane)	ND		0.00050	0.00012	mg/L		01/13/22 08:45	01/17/22 11:25	1
Heptachlor	ND		0.00050	0.00018	mg/L		01/13/22 08:45	01/17/22 11:25	1
Heptachlor epoxide	ND		0.00050	0.00014	mg/L		01/13/22 08:45	01/17/22 11:25	1
Methoxychlor	ND		0.00050	0.00031	mg/L		01/13/22 08:45	01/17/22 11:25	1
Toxaphene	ND		0.040	0.020	mg/L		01/13/22 08:45	01/17/22 11:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	94		48 - 137	01/13/22 08:45	01/17/22 11:25	1
DCB Decachlorobiphenyl (Surr)	98		48 - 137	01/13/22 08:45	01/17/22 11:25	1
Tetrachloro-m-xylene (Surr)	80		56 - 137	01/13/22 08:45	01/17/22 11:25	1
Tetrachloro-m-xylene (Surr)	95		56 - 137	01/13/22 08:45	01/17/22 11:25	1

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Method: EPA 8081B - Organochlorine Pesticides (GC) - TCLP

Client Sample ID: T1-WC-B-FL-D-2201051520-0-12

Date Collected: 01/05/22 15:20

Date Received: 01/07/22 10:30

Lab Sample ID: 180-132081-2

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0050	0.0029	mg/L		01/13/22 08:45	01/17/22 11:40	1
Endrin	ND		0.00050	0.000091	mg/L		01/13/22 08:45	01/17/22 11:40	1
gamma-BHC (Lindane)	ND		0.00050	0.00012	mg/L		01/13/22 08:45	01/17/22 11:40	1
Heptachlor	ND		0.00050	0.00018	mg/L		01/13/22 08:45	01/17/22 11:40	1
Heptachlor epoxide	ND		0.00050	0.00014	mg/L		01/13/22 08:45	01/17/22 11:40	1
Methoxychlor	ND		0.00050	0.00031	mg/L		01/13/22 08:45	01/17/22 11:40	1
Toxaphene	ND		0.040	0.020	mg/L		01/13/22 08:45	01/17/22 11:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	100		48 - 137	01/13/22 08:45	01/17/22 11:40	1
DCB Decachlorobiphenyl (Surr)	98		48 - 137	01/13/22 08:45	01/17/22 11:40	1
Tetrachloro-m-xylene (Surr)	84		56 - 137	01/13/22 08:45	01/17/22 11:40	1
Tetrachloro-m-xylene (Surr)	95		56 - 137	01/13/22 08:45	01/17/22 11:40	1

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12

Date Collected: 01/05/22 12:34

Date Received: 01/07/22 10:30

Lab Sample ID: 180-132081-3

Matrix: Solid

Percent Solids: 90.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	5.9	ug/Kg	☼	01/10/22 11:30	01/12/22 20:23	1
PCB-1221	ND		18	6.4	ug/Kg	☼	01/10/22 11:30	01/12/22 20:23	1
PCB-1232	ND		18	4.4	ug/Kg	☼	01/10/22 11:30	01/12/22 20:23	1
PCB-1242	ND		18	2.7	ug/Kg	☼	01/10/22 11:30	01/12/22 20:23	1
PCB-1248	ND		18	4.3	ug/Kg	☼	01/10/22 11:30	01/12/22 20:23	1
PCB-1254	32		18	5.4	ug/Kg	☼	01/10/22 11:30	01/12/22 20:23	1
PCB-1260	ND		18	5.2	ug/Kg	☼	01/10/22 11:30	01/12/22 20:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	99		55 - 135	01/10/22 11:30	01/12/22 20:23	1
Tetrachloro-m-xylene (Surr)	85		55 - 135	01/10/22 11:30	01/12/22 20:23	1
DCB Decachlorobiphenyl (Surr)	97		63 - 138	01/10/22 11:30	01/12/22 20:23	1
DCB Decachlorobiphenyl (Surr)	101		63 - 138	01/10/22 11:30	01/12/22 20:23	1

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: T1-WC-B-FL-D-2201051520-0-12

Date Collected: 01/05/22 15:20

Date Received: 01/07/22 10:30

Lab Sample ID: 180-132081-4

Matrix: Solid

Percent Solids: 88.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	6.1	ug/Kg	☼	01/10/22 11:30	01/12/22 19:26	1
PCB-1221	ND		19	6.6	ug/Kg	☼	01/10/22 11:30	01/12/22 19:26	1
PCB-1232	ND		19	4.6	ug/Kg	☼	01/10/22 11:30	01/12/22 19:26	1
PCB-1242	ND		19	2.7	ug/Kg	☼	01/10/22 11:30	01/12/22 19:26	1
PCB-1248	ND		19	4.5	ug/Kg	☼	01/10/22 11:30	01/12/22 19:26	1
PCB-1254	ND		19	5.6	ug/Kg	☼	01/10/22 11:30	01/12/22 19:26	1
PCB-1260	ND		19	5.3	ug/Kg	☼	01/10/22 11:30	01/12/22 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	99		55 - 135	01/10/22 11:30	01/12/22 19:26	1
Tetrachloro-m-xylene (Surr)	90		55 - 135	01/10/22 11:30	01/12/22 19:26	1
DCB Decachlorobiphenyl (Surr)	104		63 - 138	01/10/22 11:30	01/12/22 19:26	1
DCB Decachlorobiphenyl (Surr)	102		63 - 138	01/10/22 11:30	01/12/22 19:26	1

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Method: EPA 8151A - Herbicides (GC) - TCLP

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12

Date Collected: 01/05/22 12:34

Date Received: 01/07/22 10:30

Lab Sample ID: 180-132081-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.040	0.020	mg/L		01/13/22 12:30	01/19/22 07:00	20
Silvex (2,4,5-TP)	ND		0.010	0.0064	mg/L		01/13/22 12:30	01/19/22 07:00	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr)	64		48 - 127				01/13/22 12:30	01/19/22 07:00	20
2,4-Dichlorophenylacetic acid (Surr)	65		48 - 127				01/13/22 12:30	01/19/22 07:00	20

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Method: EPA 8151A - Herbicides (GC) - TCLP

Client Sample ID: T1-WC-B-FL-D-2201051520-0-12

Date Collected: 01/05/22 15:20

Date Received: 01/07/22 10:30

Lab Sample ID: 180-132081-2

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.040	0.020	mg/L		01/13/22 12:30	01/19/22 07:20	20
Silvex (2,4,5-TP)	ND		0.010	0.0064	mg/L		01/13/22 12:30	01/19/22 07:20	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr)	69		48 - 127				01/13/22 12:30	01/19/22 07:20	20
2,4-Dichlorophenylacetic acid (Surr)	72		48 - 127				01/13/22 12:30	01/19/22 07:20	20

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Method: EPA 6010D - Metals (ICP) - TCLP

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12

Date Collected: 01/05/22 12:34

Date Received: 01/07/22 10:30

Lab Sample ID: 180-132081-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	F2 FH	0.50	0.083	mg/L		01/12/22 12:15	01/13/22 08:58	1
Barium	0.81	J F2 FH	2.0	0.063	mg/L		01/12/22 12:15	01/13/22 08:58	1
Cadmium	ND	F2 FH B	0.50	0.0030	mg/L		01/12/22 12:15	01/13/22 08:58	1
Chromium	ND	F2 FH	0.50	0.016	mg/L		01/12/22 12:15	01/13/22 08:58	1
Copper	ND		0.25	0.022	mg/L		01/12/22 12:15	01/13/22 08:58	1
Lead	ND	F2 FH	0.50	0.044	mg/L		01/12/22 12:15	01/13/22 08:58	1
Nickel	ND		0.40	0.019	mg/L		01/12/22 12:15	01/13/22 08:58	1
Selenium	ND	F2 FH	0.50	0.037	mg/L		01/12/22 12:15	01/13/22 08:58	1
Silver	ND	F2 FH	0.50	0.0091	mg/L		01/12/22 12:15	01/13/22 08:58	1
Zinc	0.11	J	0.20	0.026	mg/L		01/12/22 12:15	01/13/22 08:58	1
Molybdenum	ND		0.40	0.025	mg/L		01/12/22 12:15	01/13/22 08:58	1

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Method: EPA 6010D - Metals (ICP) - TCLP

Client Sample ID: T1-WC-B-FL-D-2201051520-0-12

Date Collected: 01/05/22 15:20

Date Received: 01/07/22 10:30

Lab Sample ID: 180-132081-2

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.50	0.083	mg/L		01/12/22 12:15	01/13/22 09:39	1
Barium	0.71	J	2.0	0.063	mg/L		01/12/22 12:15	01/13/22 09:39	1
Cadmium	0.0044	J B	0.50	0.0030	mg/L		01/12/22 12:15	01/13/22 09:39	1
Chromium	ND		0.50	0.016	mg/L		01/12/22 12:15	01/13/22 09:39	1
Copper	ND		0.25	0.022	mg/L		01/12/22 12:15	01/13/22 09:39	1
Lead	0.051	J	0.50	0.044	mg/L		01/12/22 12:15	01/13/22 09:39	1
Nickel	ND		0.40	0.019	mg/L		01/12/22 12:15	01/13/22 09:39	1
Selenium	ND		0.50	0.037	mg/L		01/12/22 12:15	01/13/22 09:39	1
Silver	ND		0.50	0.0091	mg/L		01/12/22 12:15	01/13/22 09:39	1
Zinc	0.70		0.20	0.026	mg/L		01/12/22 12:15	01/13/22 09:39	1
Molybdenum	ND		0.40	0.025	mg/L		01/12/22 12:15	01/13/22 09:39	1

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Method: EPA 7470A - Mercury (CVAA) - TCLP

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12

Date Collected: 01/05/22 12:34

Date Received: 01/07/22 10:30

Lab Sample ID: 180-132081-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0035	FL	0.00020	0.00013	mg/L		01/12/22 12:04	01/13/22 11:02	1

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Method: EPA 7470A - Mercury (CVAA) - TCLP

Client Sample ID: T1-WC-B-FL-D-2201051520-0-12

Date Collected: 01/05/22 15:20

Date Received: 01/07/22 10:30

Lab Sample ID: 180-132081-2

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		01/12/22 12:04	01/13/22 11:08	1

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

General Chemistry

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12

Date Collected: 01/05/22 12:34

Date Received: 01/07/22 10:30

Lab Sample ID: 180-132081-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.5		0.1	0.1	%			01/10/22 17:09	1
Percent Solids	90.5		0.1	0.1	%			01/10/22 17:09	1
Cyanide, Reactive	ND		25	25	mg/Kg		01/19/22 10:00	01/19/22 14:45	1
Sulfide, Reactive	ND		20	20	mg/Kg		01/19/22 10:00	01/19/22 14:45	1
Ignitability	>140				Degrees F			01/08/22 13:39	1
pH	6.6	HF	0.1	0.1	SU			01/07/22 13:46	1
Free Liquid	CNF				NONE			01/12/22 09:02	1
Total Volatile Solids	1.7		0.50	0.50	%			01/10/22 10:37	1
Total Solids	90		0.50	0.50	%			01/10/22 10:37	1

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

General Chemistry

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12

Date Collected: 01/05/22 12:34

Date Received: 01/07/22 10:30

Lab Sample ID: 180-132081-1

Matrix: Solid

Percent Solids: 90.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND	FL	180	81	mg/Kg	☼	01/12/22 11:00	01/13/22 01:25	1

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

General Chemistry

Client Sample ID: T1-WC-B-FL-D-2201051520-0-12

Lab Sample ID: 180-132081-2

Date Collected: 01/05/22 15:20

Matrix: Solid

Date Received: 01/07/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.7		0.1	0.1	%			01/10/22 17:09	1
Percent Solids	88.3		0.1	0.1	%			01/10/22 17:09	1
Cyanide, Reactive	ND		25	25	mg/Kg		01/19/22 10:00	01/19/22 14:45	1
Sulfide, Reactive	ND		20	20	mg/Kg		01/19/22 10:00	01/19/22 14:45	1
Ignitability	>140				Degrees F			01/08/22 13:45	1
pH	8.7	HF	0.1	0.1	SU			01/07/22 13:47	1
Free Liquid	CNF				NONE			01/12/22 09:11	1
Total Volatile Solids	2.6		0.50	0.50	%			01/10/22 10:37	1
Total Solids	89		0.50	0.50	%			01/10/22 10:37	1

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

General Chemistry

Client Sample ID: T1-WC-B-FL-D-2201051520-0-12

Date Collected: 01/05/22 15:20

Date Received: 01/07/22 10:30

Lab Sample ID: 180-132081-2

Matrix: Solid

Percent Solids: 88.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		190	83	mg/Kg	☼	01/12/22 11:00	01/13/22 01:25	1

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

General Chemistry

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12

Date Collected: 01/05/22 12:34

Date Received: 01/07/22 10:30

Lab Sample ID: 180-132081-3

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.2		0.1	0.1	%			01/10/22 11:03	1
Percent Solids	90.8		0.1	0.1	%			01/10/22 11:03	1

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

General Chemistry

Client Sample ID: T1-WC-B-FL-D-2201051520-0-12

Lab Sample ID: 180-132081-4

Date Collected: 01/05/22 15:20

Matrix: Solid

Date Received: 01/07/22 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.1		0.1	0.1	%			01/10/22 11:03	1
Percent Solids	88.9		0.1	0.1	%			01/10/22 11:03	1

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

General Chemistry - TCLP

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12

Date Collected: 01/05/22 12:34

Date Received: 01/07/22 10:30

Lab Sample ID: 180-132081-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TCLP pH Post-Leach	4.9	!	0.1	0.1	SU			01/14/22 13:48	1

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

General Chemistry - TCLP

Client Sample ID: T1-WC-B-FL-D-2201051520-0-12

Date Collected: 01/05/22 15:20

Date Received: 01/07/22 10:30

Lab Sample ID: 180-132081-2

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TCLP pH Post-Leach	5.0	!	0.1	0.1	SU			01/14/22 13:48	1

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

General Chemistry - ASTM Leach

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12

Date Collected: 01/05/22 12:34

Date Received: 01/07/22 10:30

Lab Sample ID: 180-132081-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	6.8		5.1	4.4	mg/L		01/14/22 13:00	01/14/22 19:30	1
Ammonia, distilled	ND		0.10	0.088	mg/L			01/15/22 11:17	1
Chemical Oxygen Demand	29		10	9.1	mg/L		01/13/22 12:38	01/13/22 16:35	1
Total Solids	ND		10	10	mg/L			01/13/22 14:47	1

Client Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

General Chemistry - ASTM Leach

Client Sample ID: T1-WC-B-FL-D-2201051520-0-12

Date Collected: 01/05/22 15:20

Date Received: 01/07/22 10:30

Lab Sample ID: 180-132081-2

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		5.1	4.4	mg/L		01/14/22 13:00	01/14/22 19:30	1
Ammonia, distilled	ND		0.10	0.088	mg/L			01/15/22 11:18	1
Chemical Oxygen Demand	19		10	9.1	mg/L		01/13/22 12:38	01/13/22 16:36	1
Total Solids	24		10	10	mg/L			01/13/22 14:47	1

Default Detection Limits

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

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

Leach: EPA 1311

Analyte	RL	MDL	Units
1,1-Dichloroethene	0.20	0.057	mg/L
1,2-Dichloroethane	0.20	0.029	mg/L
2-Butanone (MEK)	0.20	0.058	mg/L
Benzene	0.20	0.039	mg/L
Carbon tetrachloride	0.20	0.066	mg/L
Chlorobenzene	0.20	0.031	mg/L
Chloroform	0.20	0.042	mg/L
Tetrachloroethene	0.20	0.040	mg/L
Trichloroethene	0.20	0.030	mg/L
Vinyl chloride	0.20	0.073	mg/L

Method: EPA 8270E - Semivolatile Organic Compounds (GC/MS) - TCLP

Prep: 3510C

Leach: EPA 1311

Analyte	RL	MDL	Units
1,4-Dichlorobenzene	0.050	0.0045	mg/L
2,4,5-Trichlorophenol	0.050	0.0079	mg/L
2,4,6-Trichlorophenol	0.050	0.0095	mg/L
2,4-Dinitrotoluene	0.050	0.0079	mg/L
Cresols, Total	0.10	0.012	mg/L
Hexachlorobenzene	0.050	0.0055	mg/L
Hexachlorobutadiene	0.050	0.0084	mg/L
Hexachloroethane	0.050	0.0040	mg/L
m & p-Cresol	0.050	0.0079	mg/L
Nitrobenzene	0.050	0.012	mg/L
o-Cresol	0.050	0.0040	mg/L
Pentachlorophenol	0.25	0.0075	mg/L
Pyridine	0.10	0.0082	mg/L

Method: EPA 8081B - Organochlorine Pesticides (GC) - TCLP

Prep: 3510C

Leach: EPA 1311

Analyte	RL	MDL	Units
Chlordane (technical)	0.0050	0.0029	mg/L
Endrin	0.00050	0.000091	mg/L
gamma-BHC (Lindane)	0.00050	0.00012	mg/L
Heptachlor	0.00050	0.00018	mg/L
Heptachlor epoxide	0.00050	0.00014	mg/L
Methoxychlor	0.00050	0.00031	mg/L
Toxaphene	0.040	0.020	mg/L

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Prep: 3541

Analyte	RL	MDL	Units
PCB-1016	17	5.4	ug/Kg
PCB-1221	17	5.9	ug/Kg
PCB-1232	17	4.1	ug/Kg
PCB-1242	17	2.4	ug/Kg
PCB-1248	17	4.0	ug/Kg
PCB-1254	17	5.0	ug/Kg
PCB-1260	17	4.7	ug/Kg

Default Detection Limits

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Method: EPA 8151A - Herbicides (GC) - TCLP

Prep: 8151A

Leach: EPA 1311

Analyte	RL	MDL	Units
2,4-D	0.040	0.020	mg/L
Silvex (2,4,5-TP)	0.010	0.0064	mg/L

Method: EPA 6010D - Metals (ICP) - TCLP

Prep: 3010A

Leach: EPA 1311

Analyte	RL	MDL	Units
Arsenic	0.050	0.0083	mg/L
Barium	0.20	0.0063	mg/L
Cadmium	0.050	0.00030	mg/L
Chromium	0.050	0.0016	mg/L
Copper	0.025	0.0022	mg/L
Lead	0.050	0.0044	mg/L
Molybdenum	0.040	0.0025	mg/L
Nickel	0.040	0.0019	mg/L
Selenium	0.050	0.0037	mg/L
Silver	0.050	0.00091	mg/L
Zinc	0.020	0.0026	mg/L

Method: EPA 7470A - Mercury (CVAA) - TCLP

Prep: 7470A

Leach: EPA 1311

Analyte	RL	MDL	Units
Mercury	0.00020	0.00013	mg/L

General Chemistry

Analyte	RL	MDL	Units
Percent Moisture	0.1	0.1	%
Percent Solids	0.1	0.1	%
pH	0.1	0.1	SU
Total Solids	0.50	0.50	%
Total Volatile Solids	0.50	0.50	%

General Chemistry

Prep: 7.3.3

Analyte	RL	MDL	Units
Cyanide, Reactive	25	25	mg/Kg

General Chemistry

Prep: 7.3.4

Analyte	RL	MDL	Units
Sulfide, Reactive	20	20	mg/Kg

General Chemistry

Prep: 9071B

Analyte	RL	MDL	Units
Oil & Grease (HEM)	170	74	mg/Kg

General Chemistry - TCLP

Default Detection Limits

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

General Chemistry - TCLP

Analyte	RL	MDL	Units
TCLP pH Post-Leach	0.1	0.1	SU

General Chemistry - ASTM Leach

Leach: D3987-85

Analyte	RL	MDL	Units
Ammonia, distilled	0.10	0.088	mg/L
Total Solids	10	10	mg/L

General Chemistry - ASTM Leach

Prep: 1664B

Leach: D3987-85

Analyte	RL	MDL	Units
Oil & Grease (HEM)	5.0	4.3	mg/L

General Chemistry - ASTM Leach

Prep: 410.4

Leach: D3987-85

Analyte	RL	MDL	Units
Chemical Oxygen Demand	10	9.1	mg/L

Surrogate Summary

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (52-151)	BFB (49-118)	DBFM (60-132)	TOL (53-124)
LCS 180-384914/3	Lab Control Sample	97	83	93	83
LCSD 180-384914/5	Lab Control Sample Dup	92	85	89	82

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (52-151)	BFB (49-118)	DBFM (60-132)	TOL (53-124)
180-132081-3	T1-WC-B-FL-D-2201051234-0-1	90	75	80	79
180-132081-3 MS	T1-WC-B-FL-D-2201051234-0-12	118	98	116	95
180-132081-3 MSD	T1-WC-B-FL-D-2201051234-0-12	112	99	116	101
180-132081-4	T1-WC-B-FL-D-2201051520-0-12	140	114	122	120
LB 180-384838/1-A	Method Blank	117	103	110	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: EPA 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (32-115)	FBP (55-105)	2FP (55-105)	NBZ (55-109)	PHL (48-105)	TPHL (37-107)
LCS 180-385073/2-A	Lab Control Sample	71	76	79	79	76	88
MB 180-385073/1-A	Method Blank	61	66	74	64	68	79

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Surrogate Summary

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Method: EPA 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (32-115)	FBP (55-105)	2FP (55-105)	NBZ (55-109)	PHL (48-105)	TPHL (37-107)
180-132081-1	T1-WC-B-FL-D-2201051234-0-1	38	66	68	70	53	83
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	47	76	80	79	63	95
LB 180-384701/1-D	Method Blank	70	74	79	73	75	84
LB 180-384835/1-F	Method Blank	63	71	75	71	70	85

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

Method: EPA 8081B - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCB1 (48-137)	DCB2 (48-137)	TCX1 (56-137)	TCX2 (56-137)
LCS 180-385068/2-A	Lab Control Sample	99	97	85	96
LCSD 180-385068/3-A	Lab Control Sample Dup	91	94	82	91
MB 180-385068/1-A	Method Blank	103	97	80	92

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene (Surr)

Method: EPA 8081B - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCB1 (48-137)	DCB2 (48-137)	TCX1 (56-137)	TCX2 (56-137)
180-132081-1	T1-WC-B-FL-D-2201051234-0-1	94	98	80	95
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	100	98	84	95
LB 180-384835/1-E	Method Blank	97	98	80	93

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene (Surr)

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (55-135)	TCX2 (55-135)	DCB1 (63-138)	DCB2 (63-138)
180-132081-3	T1-WC-B-FL-D-2201051234-0-1	99	85	97	101
180-132081-4	T1-WC-B-FL-D-2201051520-0-12	99	90	104	102
180-132081-4 MS	T1-WC-B-FL-D-2201051520-0-12	71	66	81	78

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Surrogate Summary

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
		(55-135)	(55-135)	(63-138)	(63-138)
180-132081-4 MSD	T1-WC-B-FL-D-2201051520-0-1	88	81	97	92
LCS 180-384682/2-C	Lab Control Sample	108	111	127	124
MB 180-384682/1-C	Method Blank	82	81	96	90

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

Method: EPA 8151A - Herbicides (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCPAA1	DCPAA2
		(48-127)	(48-127)
LCS 180-385097/2-A	Lab Control Sample	77	83
LCSD 180-385097/3-A	Lab Control Sample Dup	77	84
MB 180-385097/1-A	Method Blank	81	90

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid (Surr)

Method: EPA 8151A - Herbicides (GC)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCPAA1	DCPAA2
		(48-127)	(48-127)
180-132081-1	T1-WC-B-FL-D-2201051234-0-1	64	65
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	69	72
LB 180-384835/1-G	Method Blank	63	66

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid (Surr)

QC Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

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

Lab Sample ID: LCS 180-384914/3

Matrix: Solid

Analysis Batch: 384914

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	0.0100	0.0123		mg/L		123	57 - 149
2-Butanone (MEK)	0.0100	0.00811	J	mg/L		81	35 - 158
Benzene	0.0100	0.0115		mg/L		115	68 - 122
Carbon tetrachloride	0.0100	0.0103		mg/L		103	60 - 135
Chlorobenzene	0.0100	0.00892	J	mg/L		89	72 - 123
Chloroform	0.0100	0.0114		mg/L		114	62 - 121
Tetrachloroethene	0.0100	0.0102		mg/L		102	60 - 129
Trichloroethene	0.0100	0.0112		mg/L		112	67 - 121
Vinyl chloride	0.0100	0.00871	J	mg/L		87	47 - 147
1,1-Dichloroethene	0.0100	0.0107		mg/L		107	49 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		52 - 151
4-Bromofluorobenzene (Surr)	83		49 - 118
Dibromofluoromethane (Surr)	93		60 - 132
Toluene-d8 (Surr)	83		53 - 124

Lab Sample ID: LCSD 180-384914/5

Matrix: Solid

Analysis Batch: 384914

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloroethane	0.0100	0.0119		mg/L		119	57 - 149	3	27
2-Butanone (MEK)	0.0100	0.00755	J	mg/L		76	35 - 158	7	35
Benzene	0.0100	0.0115		mg/L		115	68 - 122	0	21
Carbon tetrachloride	0.0100	0.0106		mg/L		106	60 - 135	3	25
Chlorobenzene	0.0100	0.00918	J	mg/L		92	72 - 123	3	19
Chloroform	0.0100	0.0118		mg/L		118	62 - 121	3	22
Tetrachloroethene	0.0100	0.00990	J	mg/L		99	60 - 129	3	22
Trichloroethene	0.0100	0.0110		mg/L		110	67 - 121	1	23
Vinyl chloride	0.0100	0.00936	J	mg/L		94	47 - 147	7	25
1,1-Dichloroethene	0.0100	0.00809	J *1	mg/L		81	49 - 132	28	23

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		52 - 151
4-Bromofluorobenzene (Surr)	85		49 - 118
Dibromofluoromethane (Surr)	89		60 - 132
Toluene-d8 (Surr)	82		53 - 124

Lab Sample ID: LB 180-384838/1-A

Matrix: Solid

Analysis Batch: 384914

Client Sample ID: Method Blank

Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.10	0.015	mg/L			01/12/22 14:38	1
2-Butanone (MEK)	ND		0.10	0.029	mg/L			01/12/22 14:38	1
Benzene	ND		0.10	0.020	mg/L			01/12/22 14:38	1
Carbon tetrachloride	ND		0.10	0.033	mg/L			01/12/22 14:38	1

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

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

Lab Sample ID: LB 180-384838/1-A

Matrix: Solid

Analysis Batch: 384914

Client Sample ID: Method Blank

Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		0.10	0.016	mg/L			01/12/22 14:38	1
Chloroform	ND		0.10	0.021	mg/L			01/12/22 14:38	1
Tetrachloroethene	ND		0.10	0.020	mg/L			01/12/22 14:38	1
Trichloroethene	ND		0.10	0.015	mg/L			01/12/22 14:38	1
Vinyl chloride	ND		0.10	0.037	mg/L			01/12/22 14:38	1
1,1-Dichloroethene	ND		0.10	0.029	mg/L			01/12/22 14:38	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		52 - 151		01/12/22 14:38	1
4-Bromofluorobenzene (Surr)	103		49 - 118		01/12/22 14:38	1
Dibromofluoromethane (Surr)	110		60 - 132		01/12/22 14:38	1
Toluene-d8 (Surr)	97		53 - 124		01/12/22 14:38	1

Lab Sample ID: 180-132081-3 MS

Matrix: Solid

Analysis Batch: 384914

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12

Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	ND	FH	0.200	0.283		mg/L		142	57 - 149
2-Butanone (MEK)	ND		0.200	0.177	J	mg/L		89	35 - 158
Benzene	ND	FH	0.200	0.264	FH	mg/L		132	68 - 122
Carbon tetrachloride	ND		0.200	0.224		mg/L		112	60 - 135
Chlorobenzene	ND		0.200	0.198	J	mg/L		99	72 - 123
Chloroform	ND	FH	0.200	0.269	FH	mg/L		134	62 - 121
Tetrachloroethene	ND		0.200	0.195	J	mg/L		97	60 - 129
Trichloroethene	ND	FH	0.200	0.238		mg/L		119	67 - 121
Vinyl chloride	ND		0.200	0.192	J	mg/L		96	47 - 147
1,1-Dichloroethene	ND	*1	0.200	0.215		mg/L		107	49 - 132

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	118		52 - 151
4-Bromofluorobenzene (Surr)	98		49 - 118
Dibromofluoromethane (Surr)	116		60 - 132
Toluene-d8 (Surr)	95		53 - 124

Lab Sample ID: 180-132081-3 MSD

Matrix: Solid

Analysis Batch: 384914

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12

Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloroethane	ND	FH	0.200	0.302	FH	mg/L		151	57 - 149	6	27
2-Butanone (MEK)	ND		0.200	0.170	J	mg/L		85	35 - 158	4	35
Benzene	ND	FH	0.200	0.275	FH	mg/L		138	68 - 122	4	21
Carbon tetrachloride	ND		0.200	0.216		mg/L		108	60 - 135	4	25
Chlorobenzene	ND		0.200	0.214		mg/L		107	72 - 123	7	19
Chloroform	ND	FH	0.200	0.277	FH	mg/L		138	62 - 121	3	22
Tetrachloroethene	ND		0.200	0.209		mg/L		104	60 - 129	7	22
Trichloroethene	ND	FH	0.200	0.255	FH	mg/L		128	67 - 121	7	23

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

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

Lab Sample ID: 180-132081-3 MSD

Matrix: Solid

Analysis Batch: 384914

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12

Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl chloride	ND		0.200	0.182	J	mg/L		91	47 - 147	5	25
1,1-Dichloroethene	ND	*1	0.200	0.221		mg/L		110	49 - 132	3	23
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	112		52 - 151								
4-Bromofluorobenzene (Surr)	99		49 - 118								
Dibromofluoromethane (Surr)	116		60 - 132								
Toluene-d8 (Surr)	101		53 - 124								

Method: EPA 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-385073/1-A

Matrix: Solid

Analysis Batch: 385325

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 385073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.050	0.0045	mg/L		01/13/22 09:30	01/17/22 09:17	1
2,4,5-Trichlorophenol	ND		0.050	0.0079	mg/L		01/13/22 09:30	01/17/22 09:17	1
2,4,6-Trichlorophenol	ND		0.050	0.0095	mg/L		01/13/22 09:30	01/17/22 09:17	1
2,4-Dinitrotoluene	ND		0.050	0.0079	mg/L		01/13/22 09:30	01/17/22 09:17	1
Cresols, Total	ND		0.10	0.012	mg/L		01/13/22 09:30	01/17/22 09:17	1
Hexachlorobenzene	ND		0.050	0.0055	mg/L		01/13/22 09:30	01/17/22 09:17	1
Hexachlorobutadiene	ND		0.050	0.0084	mg/L		01/13/22 09:30	01/17/22 09:17	1
Hexachloroethane	ND		0.050	0.0040	mg/L		01/13/22 09:30	01/17/22 09:17	1
m & p-Cresol	ND		0.050	0.0079	mg/L		01/13/22 09:30	01/17/22 09:17	1
Nitrobenzene	ND		0.050	0.012	mg/L		01/13/22 09:30	01/17/22 09:17	1
o-Cresol	ND		0.050	0.0040	mg/L		01/13/22 09:30	01/17/22 09:17	1
Pentachlorophenol	ND		0.25	0.0075	mg/L		01/13/22 09:30	01/17/22 09:17	1
Pyridine	ND		0.10	0.0082	mg/L		01/13/22 09:30	01/17/22 09:17	1
MB MB									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	61		32 - 115				01/13/22 09:30	01/17/22 09:17	1
2-Fluorobiphenyl	66		55 - 105				01/13/22 09:30	01/17/22 09:17	1
2-Fluorophenol (Surr)	74		55 - 105				01/13/22 09:30	01/17/22 09:17	1
Nitrobenzene-d5 (Surr)	64		55 - 109				01/13/22 09:30	01/17/22 09:17	1
Phenol-d5 (Surr)	68		48 - 105				01/13/22 09:30	01/17/22 09:17	1
Terphenyl-d14 (Surr)	79		37 - 107				01/13/22 09:30	01/17/22 09:17	1

Lab Sample ID: LCS 180-385073/2-A

Matrix: Solid

Analysis Batch: 385325

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 385073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.250	0.168		mg/L		67	61 - 100
2,4,5-Trichlorophenol	0.250	0.169		mg/L		68	53 - 104
2,4,6-Trichlorophenol	0.250	0.178		mg/L		71	53 - 103
2,4-Dinitrotoluene	0.250	0.131		mg/L		52	43 - 100
Cresols, Total	0.750	0.494		mg/L		66	58 - 100

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Method: EPA 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-385073/2-A

Matrix: Solid

Analysis Batch: 385325

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 385073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobenzene	0.250	0.148		mg/L		59	34 - 100
Hexachlorobutadiene	0.250	0.181		mg/L		72	52 - 110
Hexachloroethane	0.250	0.163		mg/L		65	56 - 100
m & p-Cresol	0.500	0.337		mg/L		67	59 - 100
Nitrobenzene	0.250	0.183		mg/L		73	60 - 100
o-Cresol	0.250	0.156		mg/L		63	56 - 100
Pentachlorophenol	0.250	0.133	J	mg/L		53	14 - 112
Pyridine	0.250	0.215		mg/L		86	54 - 107

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	71		32 - 115
2-Fluorobiphenyl	76		55 - 105
2-Fluorophenol (Surr)	79		55 - 105
Nitrobenzene-d5 (Surr)	79		55 - 109
Phenol-d5 (Surr)	76		48 - 105
Terphenyl-d14 (Surr)	88		37 - 107

Lab Sample ID: LB 180-384701/1-D

Matrix: Solid

Analysis Batch: 385325

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 385073

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.050	0.0045	mg/L		01/13/22 09:30	01/17/22 12:17	1
2,4,5-Trichlorophenol	ND		0.050	0.0079	mg/L		01/13/22 09:30	01/17/22 12:17	1
2,4,6-Trichlorophenol	ND		0.050	0.0095	mg/L		01/13/22 09:30	01/17/22 12:17	1
2,4-Dinitrotoluene	ND		0.050	0.0079	mg/L		01/13/22 09:30	01/17/22 12:17	1
Cresols, Total	ND		0.10	0.012	mg/L		01/13/22 09:30	01/17/22 12:17	1
Hexachlorobenzene	ND		0.050	0.0055	mg/L		01/13/22 09:30	01/17/22 12:17	1
Hexachlorobutadiene	ND		0.050	0.0084	mg/L		01/13/22 09:30	01/17/22 12:17	1
Hexachloroethane	ND		0.050	0.0040	mg/L		01/13/22 09:30	01/17/22 12:17	1
m & p-Cresol	ND		0.050	0.0079	mg/L		01/13/22 09:30	01/17/22 12:17	1
Nitrobenzene	ND		0.050	0.012	mg/L		01/13/22 09:30	01/17/22 12:17	1
o-Cresol	ND		0.050	0.0040	mg/L		01/13/22 09:30	01/17/22 12:17	1
Pentachlorophenol	ND		0.25	0.0075	mg/L		01/13/22 09:30	01/17/22 12:17	1
Pyridine	ND		0.10	0.0082	mg/L		01/13/22 09:30	01/17/22 12:17	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	70		32 - 115	01/13/22 09:30	01/17/22 12:17	1
2-Fluorobiphenyl	74		55 - 105	01/13/22 09:30	01/17/22 12:17	1
2-Fluorophenol (Surr)	79		55 - 105	01/13/22 09:30	01/17/22 12:17	1
Nitrobenzene-d5 (Surr)	73		55 - 109	01/13/22 09:30	01/17/22 12:17	1
Phenol-d5 (Surr)	75		48 - 105	01/13/22 09:30	01/17/22 12:17	1
Terphenyl-d14 (Surr)	84		37 - 107	01/13/22 09:30	01/17/22 12:17	1

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Method: EPA 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB 180-384835/1-F

Matrix: Solid

Analysis Batch: 385325

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 385073

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.050	0.0045	mg/L		01/13/22 09:30	01/17/22 12:40	1
2,4,5-Trichlorophenol	ND		0.050	0.0079	mg/L		01/13/22 09:30	01/17/22 12:40	1
2,4,6-Trichlorophenol	ND		0.050	0.0095	mg/L		01/13/22 09:30	01/17/22 12:40	1
2,4-Dinitrotoluene	ND		0.050	0.0079	mg/L		01/13/22 09:30	01/17/22 12:40	1
Cresols, Total	ND		0.10	0.012	mg/L		01/13/22 09:30	01/17/22 12:40	1
Hexachlorobenzene	ND		0.050	0.0055	mg/L		01/13/22 09:30	01/17/22 12:40	1
Hexachlorobutadiene	ND		0.050	0.0084	mg/L		01/13/22 09:30	01/17/22 12:40	1
Hexachloroethane	ND		0.050	0.0040	mg/L		01/13/22 09:30	01/17/22 12:40	1
m & p-Cresol	ND		0.050	0.0079	mg/L		01/13/22 09:30	01/17/22 12:40	1
Nitrobenzene	ND		0.050	0.012	mg/L		01/13/22 09:30	01/17/22 12:40	1
o-Cresol	ND		0.050	0.0040	mg/L		01/13/22 09:30	01/17/22 12:40	1
Pentachlorophenol	ND		0.25	0.0075	mg/L		01/13/22 09:30	01/17/22 12:40	1
Pyridine	ND		0.10	0.0082	mg/L		01/13/22 09:30	01/17/22 12:40	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	63		32 - 115	01/13/22 09:30	01/17/22 12:40	1
2-Fluorobiphenyl	71		55 - 105	01/13/22 09:30	01/17/22 12:40	1
2-Fluorophenol (Surr)	75		55 - 105	01/13/22 09:30	01/17/22 12:40	1
Nitrobenzene-d5 (Surr)	71		55 - 109	01/13/22 09:30	01/17/22 12:40	1
Phenol-d5 (Surr)	70		48 - 105	01/13/22 09:30	01/17/22 12:40	1
Terphenyl-d14 (Surr)	85		37 - 107	01/13/22 09:30	01/17/22 12:40	1

Method: EPA 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 180-385068/1-A

Matrix: Solid

Analysis Batch: 385331

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 385068

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0050	0.0029	mg/L		01/13/22 08:45	01/17/22 10:22	1
Endrin	ND		0.00050	0.000091	mg/L		01/13/22 08:45	01/17/22 10:22	1
gamma-BHC (Lindane)	ND		0.00050	0.00012	mg/L		01/13/22 08:45	01/17/22 10:22	1
Heptachlor	ND		0.00050	0.00018	mg/L		01/13/22 08:45	01/17/22 10:22	1
Heptachlor epoxide	ND		0.00050	0.00014	mg/L		01/13/22 08:45	01/17/22 10:22	1
Methoxychlor	ND		0.00050	0.00031	mg/L		01/13/22 08:45	01/17/22 10:22	1
Toxaphene	ND		0.040	0.020	mg/L		01/13/22 08:45	01/17/22 10:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	103		48 - 137	01/13/22 08:45	01/17/22 10:22	1
DCB Decachlorobiphenyl (Surr)	97		48 - 137	01/13/22 08:45	01/17/22 10:22	1
Tetrachloro-m-xylene (Surr)	80		56 - 137	01/13/22 08:45	01/17/22 10:22	1
Tetrachloro-m-xylene (Surr)	92		56 - 137	01/13/22 08:45	01/17/22 10:22	1

QC Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Method: EPA 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 180-385068/2-A

Matrix: Solid

Analysis Batch: 385331

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 385068

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin	0.0100	0.0112		mg/L		112	72 - 115
gamma-BHC (Lindane)	0.0100	0.0104		mg/L		104	67 - 120
Heptachlor	0.0100	0.0103		mg/L		103	71 - 125
Heptachlor epoxide	0.0100	0.0111		mg/L		111	67 - 123
Methoxychlor	0.0100	0.00997		mg/L		100	59 - 109

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	99		48 - 137
DCB Decachlorobiphenyl (Surr)	97		48 - 137
Tetrachloro-m-xylene (Surr)	85		56 - 137
Tetrachloro-m-xylene (Surr)	96		56 - 137

Lab Sample ID: LCSD 180-385068/3-A

Matrix: Solid

Analysis Batch: 385331

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 385068

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endrin	0.0100	0.0110		mg/L		110	72 - 115	3	15
gamma-BHC (Lindane)	0.0100	0.0101		mg/L		101	67 - 120	3	18
Heptachlor	0.0100	0.0101		mg/L		101	71 - 125	2	16
Heptachlor epoxide	0.0100	0.0107		mg/L		107	67 - 123	4	15
Methoxychlor	0.0100	0.00977		mg/L		98	59 - 109	2	15

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	91		48 - 137
DCB Decachlorobiphenyl (Surr)	94		48 - 137
Tetrachloro-m-xylene (Surr)	82		56 - 137
Tetrachloro-m-xylene (Surr)	91		56 - 137

Lab Sample ID: LB 180-384835/1-E

Matrix: Solid

Analysis Batch: 385331

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 385068

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.0050	0.0029	mg/L		01/13/22 08:45	01/17/22 11:09	1
Endrin	ND		0.00050	0.000091	mg/L		01/13/22 08:45	01/17/22 11:09	1
gamma-BHC (Lindane)	ND		0.00050	0.00012	mg/L		01/13/22 08:45	01/17/22 11:09	1
Heptachlor	ND		0.00050	0.00018	mg/L		01/13/22 08:45	01/17/22 11:09	1
Heptachlor epoxide	ND		0.00050	0.00014	mg/L		01/13/22 08:45	01/17/22 11:09	1
Methoxychlor	ND		0.00050	0.00031	mg/L		01/13/22 08:45	01/17/22 11:09	1
Toxaphene	ND		0.040	0.020	mg/L		01/13/22 08:45	01/17/22 11:09	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	97		48 - 137	01/13/22 08:45	01/17/22 11:09	1
DCB Decachlorobiphenyl (Surr)	98		48 - 137	01/13/22 08:45	01/17/22 11:09	1
Tetrachloro-m-xylene (Surr)	80		56 - 137	01/13/22 08:45	01/17/22 11:09	1
Tetrachloro-m-xylene (Surr)	93		56 - 137	01/13/22 08:45	01/17/22 11:09	1

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-384682/1-C

Matrix: Solid

Analysis Batch: 384861

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 384682

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	5.4	ug/Kg		01/10/22 11:30	01/12/22 18:30	1
PCB-1221	ND		17	5.9	ug/Kg		01/10/22 11:30	01/12/22 18:30	1
PCB-1232	ND		17	4.1	ug/Kg		01/10/22 11:30	01/12/22 18:30	1
PCB-1242	ND		17	2.4	ug/Kg		01/10/22 11:30	01/12/22 18:30	1
PCB-1248	ND		17	4.0	ug/Kg		01/10/22 11:30	01/12/22 18:30	1
PCB-1254	ND		17	5.0	ug/Kg		01/10/22 11:30	01/12/22 18:30	1
PCB-1260	ND		17	4.7	ug/Kg		01/10/22 11:30	01/12/22 18:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	82		55 - 135	01/10/22 11:30	01/12/22 18:30	1
Tetrachloro-m-xylene (Surr)	81		55 - 135	01/10/22 11:30	01/12/22 18:30	1
DCB Decachlorobiphenyl (Surr)	96		63 - 138	01/10/22 11:30	01/12/22 18:30	1
DCB Decachlorobiphenyl (Surr)	90		63 - 138	01/10/22 11:30	01/12/22 18:30	1

Lab Sample ID: LCS 180-384682/2-C

Matrix: Solid

Analysis Batch: 384861

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 384682

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	1330	1260		ug/Kg		95	43 - 136
PCB-1260	1330	1520		ug/Kg		114	55 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene (Surr)	108		55 - 135
Tetrachloro-m-xylene (Surr)	111		55 - 135
DCB Decachlorobiphenyl (Surr)	127		63 - 138
DCB Decachlorobiphenyl (Surr)	124		63 - 138

Lab Sample ID: 180-132081-4 MS

Matrix: Solid

Analysis Batch: 384861

Client Sample ID: T1-WC-B-FL-D-2201051520-0-12

Prep Type: Total/NA

Prep Batch: 384682

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
PCB-1016	ND		1490	945		ug/Kg	☼	63	43 - 136
PCB-1260	ND		1490	1090		ug/Kg	☼	73	55 - 128

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene (Surr)	71		55 - 135
Tetrachloro-m-xylene (Surr)	66		55 - 135
DCB Decachlorobiphenyl (Surr)	81		63 - 138
DCB Decachlorobiphenyl (Surr)	78		63 - 138

Lab Sample ID: 180-132081-4 MSD

Matrix: Solid

Analysis Batch: 384861

Client Sample ID: T1-WC-B-FL-D-2201051520-0-12

Prep Type: Total/NA

Prep Batch: 384682

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
PCB-1016	ND		1490	1180		ug/Kg	☼	79	43 - 136	22	40

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-132081-4 MSD

Matrix: Solid

Analysis Batch: 384861

Client Sample ID: T1-WC-B-FL-D-2201051520-0-12

Prep Type: Total/NA

Prep Batch: 384682

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1260	ND		1490	1320		ug/Kg	☼	88	55 - 128	19	32
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Tetrachloro-m-xylene (Surr)	88		55 - 135								
Tetrachloro-m-xylene (Surr)	81		55 - 135								
DCB Decachlorobiphenyl (Surr)	97		63 - 138								
DCB Decachlorobiphenyl (Surr)	92		63 - 138								

Method: EPA 8151A - Herbicides (GC)

Lab Sample ID: MB 180-385097/1-A

Matrix: Solid

Analysis Batch: 385491

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 385097

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,4-D	ND		0.040	0.020	mg/L		01/13/22 12:30	01/19/22 05:42	20
Silvex (2,4,5-TP)	ND		0.010	0.0064	mg/L		01/13/22 12:30	01/19/22 05:42	20
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
2,4-Dichlorophenylacetic acid (Surr)	81		48 - 127				01/13/22 12:30	01/19/22 05:42	20
2,4-Dichlorophenylacetic acid (Surr)	90		48 - 127				01/13/22 12:30	01/19/22 05:42	20

Lab Sample ID: LCS 180-385097/2-A

Matrix: Solid

Analysis Batch: 385491

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 385097

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4-D			0.200	0.116		mg/L		58	23 - 139		
Silvex (2,4,5-TP)			0.0500	0.0379		mg/L		76	33 - 140		
Surrogate	LCS %Recovery	LCS Qualifier	Limits								
2,4-Dichlorophenylacetic acid (Surr)	77		48 - 127								
2,4-Dichlorophenylacetic acid (Surr)	83		48 - 127								

Lab Sample ID: LCSD 180-385097/3-A

Matrix: Solid

Analysis Batch: 385491

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 385097

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
			Added	Result	Qualifier				Limits		Limit
2,4-D			0.200	0.126		mg/L		63	23 - 139	8	35
Silvex (2,4,5-TP)			0.0500	0.0402		mg/L		80	33 - 140	6	35
Surrogate	LCSD	LCSD	Limits								
	%Recovery	Qualifier									
2,4-Dichlorophenylacetic acid (Surr)	77		48 - 127								
2,4-Dichlorophenylacetic acid (Surr)	84		48 - 127								

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Method: EPA 8151A - Herbicides (GC)

Lab Sample ID: LB 180-384835/1-G

Matrix: Solid

Analysis Batch: 385491

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 385097

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.040	0.020	mg/L		01/13/22 12:30	01/19/22 06:41	20
Silvex (2,4,5-TP)	ND		0.010	0.0064	mg/L		01/13/22 12:30	01/19/22 06:41	20
Surrogate	LB %Recovery	LB Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr)	63		48 - 127				01/13/22 12:30	01/19/22 06:41	20
2,4-Dichlorophenylacetic acid (Surr)	66		48 - 127				01/13/22 12:30	01/19/22 06:41	20

Method: EPA 6010D - Metals (ICP)

Lab Sample ID: MB 180-384966/1-A

Matrix: Solid

Analysis Batch: 385128

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 384966

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.050	0.0083	mg/L		01/12/22 12:15	01/13/22 08:45	1
Barium	ND		0.20	0.0063	mg/L		01/12/22 12:15	01/13/22 08:45	1
Cadmium	ND		0.050	0.00030	mg/L		01/12/22 12:15	01/13/22 08:45	1
Chromium	ND		0.050	0.0016	mg/L		01/12/22 12:15	01/13/22 08:45	1
Copper	ND		0.025	0.0022	mg/L		01/12/22 12:15	01/13/22 08:45	1
Lead	ND		0.050	0.0044	mg/L		01/12/22 12:15	01/13/22 08:45	1
Nickel	ND		0.040	0.0019	mg/L		01/12/22 12:15	01/13/22 08:45	1
Selenium	ND		0.050	0.0037	mg/L		01/12/22 12:15	01/13/22 08:45	1
Silver	ND		0.050	0.00091	mg/L		01/12/22 12:15	01/13/22 08:45	1
Zinc	ND		0.020	0.0026	mg/L		01/12/22 12:15	01/13/22 08:45	1
Molybdenum	ND		0.040	0.0025	mg/L		01/12/22 12:15	01/13/22 08:45	1

Lab Sample ID: LCS 180-384966/2-A

Matrix: Solid

Analysis Batch: 385128

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 384966

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.07		mg/L		107	80 - 120
Barium	1.00	1.01		mg/L		101	80 - 120
Cadmium	0.500	0.519		mg/L		104	80 - 120
Chromium	0.500	0.470		mg/L		94	80 - 120
Copper	0.500	0.513		mg/L		103	80 - 120
Lead	0.500	0.492		mg/L		98	80 - 120
Nickel	0.500	0.500		mg/L		100	80 - 120
Selenium	1.00	1.06		mg/L		106	80 - 120
Silver	0.250	0.251		mg/L		100	80 - 120
Zinc	0.250	0.246		mg/L		98	80 - 120
Molybdenum	0.500	0.495		mg/L		99	80 - 120

Lab Sample ID: LB 180-384835/1-D

Matrix: Solid

Analysis Batch: 385128

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 384966

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.50	0.083	mg/L		01/12/22 12:15	01/13/22 08:54	1

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Method: EPA 6010D - Metals (ICP) (Continued)

Lab Sample ID: LB 180-384835/1-D
Matrix: Solid
Analysis Batch: 385128

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 384966

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		2.0	0.063	mg/L		01/12/22 12:15	01/13/22 08:54	1
Cadmium	0.00340	J B	0.50	0.0030	mg/L		01/12/22 12:15	01/13/22 08:54	1
Chromium	ND		0.50	0.016	mg/L		01/12/22 12:15	01/13/22 08:54	1
Copper	ND		0.25	0.022	mg/L		01/12/22 12:15	01/13/22 08:54	1
Lead	ND		0.50	0.044	mg/L		01/12/22 12:15	01/13/22 08:54	1
Nickel	ND		0.40	0.019	mg/L		01/12/22 12:15	01/13/22 08:54	1
Selenium	ND		0.50	0.037	mg/L		01/12/22 12:15	01/13/22 08:54	1
Silver	ND		0.50	0.0091	mg/L		01/12/22 12:15	01/13/22 08:54	1
Zinc	ND		0.20	0.026	mg/L		01/12/22 12:15	01/13/22 08:54	1
Molybdenum	ND		0.40	0.025	mg/L		01/12/22 12:15	01/13/22 08:54	1

Lab Sample ID: 180-132081-1 MS
Matrix: Solid
Analysis Batch: 385128

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12
Prep Type: TCLP
Prep Batch: 384966

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND	F2 FH	5.00	5.19		mg/L		104	75 - 125
Barium	0.81	J F2 FH	50.0	49.3		mg/L		97	75 - 125
Cadmium	ND	F2 FH B	1.00	0.998		mg/L		100	75 - 125
Chromium	ND	F2 FH	5.00	4.66		mg/L		93	75 - 125
Lead	ND	F2 FH	5.00	4.66		mg/L		93	75 - 125
Selenium	ND	F2 FH	1.00	1.01		mg/L		101	75 - 125
Silver	ND	F2 FH	1.00	0.972		mg/L		97	75 - 125

Lab Sample ID: 180-132081-1 MS
Matrix: Solid
Analysis Batch: 385128

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12
Prep Type: TCLP
Prep Batch: 384966

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	ND		1.00	0.965		mg/L		97	75 - 125
Nickel	ND		1.00	0.890		mg/L		89	75 - 125
Zinc	0.11	J	0.500	0.607		mg/L		99	75 - 125
Molybdenum	ND		1.00	0.870		mg/L		87	75 - 125

Lab Sample ID: 180-132081-1 MSD
Matrix: Solid
Analysis Batch: 385128

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12
Prep Type: TCLP
Prep Batch: 384966

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Arsenic	ND	F2 FH	5.00	7.10	FH F2	mg/L		142	75 - 125	31	20
Barium	0.81	J F2 FH	50.0	67.2	FH F2	mg/L		133	75 - 125	31	20
Cadmium	ND	F2 FH B	1.00	1.37	FH F2	mg/L		137	75 - 125	31	20
Chromium	ND	F2 FH	5.00	6.41	FH F2	mg/L		128	75 - 125	32	20
Lead	ND	F2 FH	5.00	6.38	FH F2	mg/L		128	75 - 125	31	20
Selenium	ND	F2 FH	1.00	1.42	FH F2	mg/L		142	75 - 125	33	20
Silver	ND	F2 FH	1.00	1.34	FH F2	mg/L		134	75 - 125	32	20

QC Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Method: EPA 6010D - Metals (ICP) (Continued)

Lab Sample ID: 180-132081-1 MSD

Matrix: Solid

Analysis Batch: 385128

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12

Prep Type: TCLP

Prep Batch: 384966

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper	ND		1.00	0.973		mg/L		97	75 - 125	1	20
Nickel	ND		1.00	0.933		mg/L		93	75 - 125	5	20
Zinc	0.11	J	0.500	0.628		mg/L		103	75 - 125	3	20
Molybdenum	ND		1.00	0.917		mg/L		92	75 - 125	5	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-384964/1-A

Matrix: Solid

Analysis Batch: 385098

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 384964

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		01/12/22 12:04	01/13/22 10:59	1

Lab Sample ID: LCS 180-384964/2-A

Matrix: Solid

Analysis Batch: 385098

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 384964

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00241		mg/L		96	80 - 120

Lab Sample ID: LB 180-384835/1-B

Matrix: Solid

Analysis Batch: 385098

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 384964

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		01/12/22 12:04	01/13/22 11:01	1

Lab Sample ID: 180-132081-1 MS

Matrix: Solid

Analysis Batch: 385098

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12

Prep Type: TCLP

Prep Batch: 384964

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0035	FL	0.00500	ND	FL	mg/L		0	75 - 125

Lab Sample ID: 180-132081-1 MSD

Matrix: Solid

Analysis Batch: 385098

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12

Prep Type: TCLP

Prep Batch: 384964

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.0035	FL	0.00500	0.00795		mg/L		89	75 - 125	NC	20

Method: 1311 - TCLP pH Post Leach

Lab Sample ID: 180-132081-1 DU

Matrix: Solid

Analysis Batch: 385207

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12

Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
TCLP pH Post-Leach	4.9	!	4.9		SU		0	2

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QC Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Method: 9014 - Cyanide, Reactive

Lab Sample ID: MB 460-824077/1-A
Matrix: Solid
Analysis Batch: 824085

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 824077

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		25	25	mg/Kg		01/19/22 10:00	01/19/22 14:45	1

Lab Sample ID: LCS 460-824077/2-A
Matrix: Solid
Analysis Batch: 824085

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 824077

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Reactive	40.0	ND		mg/Kg		12	10 - 100

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 460-824075/1-A
Matrix: Solid
Analysis Batch: 824080

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 824075

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		20	20	mg/Kg		01/19/22 10:00	01/19/22 14:45	1

Lab Sample ID: LCSSRM 460-824075/3-A
Matrix: Solid
Analysis Batch: 824080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 824075

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide, Reactive	70.9	64.8		mg/Kg		91.4	46.7 - 142.5

Method: EPA 1664B - HEM and SGT-HEM

Lab Sample ID: MB 180-385196/1-A
Matrix: Solid
Analysis Batch: 385240

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 385196

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		5.0	4.3	mg/L		01/14/22 13:00	01/14/22 19:30	1

Lab Sample ID: LCS 180-385196/2-A
Matrix: Solid
Analysis Batch: 385240

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 385196

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease (HEM)	39.8	34.0		mg/L		85	78 - 114

Lab Sample ID: LCSD 180-385196/3-A
Matrix: Solid
Analysis Batch: 385240

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 385196

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD Limit
Oil & Grease (HEM)	39.8	35.6		mg/L		89	78 - 114	5

QC Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Method: EPA 1664B - HEM and SGT-HEM (Continued)

Lab Sample ID: LB 180-384972/1-D
Matrix: Solid
Analysis Batch: 385240

Client Sample ID: Method Blank
Prep Type: ASTM Leach
Prep Batch: 385196

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		5.2	4.5	mg/L		01/14/22 13:00	01/14/22 19:30	1

Method: EPA 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 180-385280/17
Matrix: Solid
Analysis Batch: 385280

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled	ND		0.10	0.088	mg/L			01/15/22 10:52	1

Lab Sample ID: LCS 180-385280/18
Matrix: Solid
Analysis Batch: 385280

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia, distilled	0.500	0.515		mg/L		103	90 - 110

Lab Sample ID: LB 180-384972/1-A
Matrix: Solid
Analysis Batch: 385280

Client Sample ID: Method Blank
Prep Type: ASTM Leach

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, distilled	ND		0.10	0.088	mg/L			01/15/22 11:05	1

Method: EPA 410.4 - COD

Lab Sample ID: MB 180-385084/12-A
Matrix: Solid
Analysis Batch: 385108

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 385084

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10	9.1	mg/L		01/13/22 12:38	01/13/22 16:08	1

Lab Sample ID: MB 180-385084/36-A
Matrix: Solid
Analysis Batch: 385108

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 385084

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10	9.1	mg/L		01/13/22 12:38	01/13/22 16:23	1

Lab Sample ID: LCS 180-385084/35-A
Matrix: Solid
Analysis Batch: 385108

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 385084

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	75.0	80.5		mg/L		107	90 - 110

QC Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Method: EPA 410.4 - COD (Continued)

Lab Sample ID: LB 180-384972/1-B
Matrix: Solid
Analysis Batch: 385108

Client Sample ID: Method Blank
Prep Type: ASTM Leach
Prep Batch: 385084

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10	9.1	mg/L		01/13/22 12:38	01/13/22 16:32	1

Method: EPA 9045D - pH

Lab Sample ID: LCS 180-384571/1
Matrix: Solid
Analysis Batch: 384571

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

Lab Sample ID: 180-132081-1 DU
Matrix: Solid
Analysis Batch: 384571

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	6.6	HF	6.6		SU		0.2	2

Method: EPA 9071B - HEM and SGT-HEM

Lab Sample ID: MB 180-384936/1-A
Matrix: Solid
Analysis Batch: 384998

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 384936

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	ND		170	74	mg/Kg		01/12/22 11:00	01/13/22 01:25	1

Lab Sample ID: LCS 180-384936/2-A
Matrix: Solid
Analysis Batch: 384998

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 384936

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease (HEM)	1330	1280		mg/Kg		96	78 - 114

Lab Sample ID: 180-132081-1 MS
Matrix: Solid
Analysis Batch: 384998

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12
Prep Type: Total/NA
Prep Batch: 384936

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease (HEM)	ND	FL	1470	1070	FL	mg/Kg	☼	73	78 - 114

Lab Sample ID: 180-132081-1 MSD
Matrix: Solid
Analysis Batch: 384998

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12
Prep Type: Total/NA
Prep Batch: 384936

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Oil & Grease (HEM)	ND	FL	1470	1100	FL	mg/Kg	☼	75	78 - 114	3	18

QC Sample Results

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Method: EPA 9095B - Paint Filter

Lab Sample ID: 180-132081-1 DU
Matrix: Solid
Analysis Batch: 384927

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Free Liquid	CNF		CNF		NONE		NC	20

Method: SM 2540B - Total Solids

Lab Sample ID: MB 180-385099/1
Matrix: Solid
Analysis Batch: 385099

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids	ND		10	10	mg/L			01/13/22 14:47	1

Lab Sample ID: LCS 180-385099/2
Matrix: Solid
Analysis Batch: 385099

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Solids	179	154		mg/L		86	85 - 115

Lab Sample ID: LCSD 180-385099/3
Matrix: Solid
Analysis Batch: 385099

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Solids	179	156		mg/L		87	85 - 115	1	20

Lab Sample ID: LB 180-384972/1-A
Matrix: Solid
Analysis Batch: 385099

Client Sample ID: Method Blank
Prep Type: ASTM Leach

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids	ND		10	10	mg/L			01/13/22 14:47	1

Method: SM 2540G - Total, Fixed, and Volatile Solids

Lab Sample ID: 180-132081-1 DU
Matrix: Solid
Analysis Batch: 384673

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Volatile Solids	1.7		1.79		%		4	10
Total Solids	90		90.5		%		0.4	10

QC Association Summary

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

GC/MS VOA

Leach Batch: 384838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-3	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	EPA 1311	
180-132081-4	T1-WC-B-FL-D-2201051520-0-12	TCLP	Solid	EPA 1311	
LB 180-384838/1-A	Method Blank	TCLP	Solid	EPA 1311	
180-132081-3 MS	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	EPA 1311	
180-132081-3 MSD	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	EPA 1311	

Analysis Batch: 384914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-3	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	EPA 8260D	384838
180-132081-4	T1-WC-B-FL-D-2201051520-0-12	TCLP	Solid	EPA 8260D	384838
LB 180-384838/1-A	Method Blank	TCLP	Solid	EPA 8260D	384838
LCS 180-384914/3	Lab Control Sample	Total/NA	Solid	EPA 8260D	
LCSD 180-384914/5	Lab Control Sample Dup	Total/NA	Solid	EPA 8260D	
180-132081-3 MS	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	EPA 8260D	384838
180-132081-3 MSD	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	EPA 8260D	384838

GC/MS Semi VOA

Leach Batch: 384701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 180-384701/1-D	Method Blank	TCLP	Solid	EPA 1311	

Leach Batch: 384835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	EPA 1311	
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	TCLP	Solid	EPA 1311	
LB 180-384835/1-F	Method Blank	TCLP	Solid	EPA 1311	

Prep Batch: 385073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	3510C	384835
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	TCLP	Solid	3510C	384835
LB 180-384701/1-D	Method Blank	TCLP	Solid	3510C	384701
LB 180-384835/1-F	Method Blank	TCLP	Solid	3510C	384835
MB 180-385073/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 180-385073/2-A	Lab Control Sample	Total/NA	Solid	3510C	

Analysis Batch: 385325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	EPA 8270E	385073
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	TCLP	Solid	EPA 8270E	385073
LB 180-384701/1-D	Method Blank	TCLP	Solid	EPA 8270E	385073
LB 180-384835/1-F	Method Blank	TCLP	Solid	EPA 8270E	385073
MB 180-385073/1-A	Method Blank	Total/NA	Solid	EPA 8270E	385073
LCS 180-385073/2-A	Lab Control Sample	Total/NA	Solid	EPA 8270E	385073

GC Semi VOA

Prep Batch: 384682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-3	T1-WC-B-FL-D-2201051234-0-12	Total/NA	Solid	3541	
180-132081-4	T1-WC-B-FL-D-2201051520-0-12	Total/NA	Solid	3541	

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QC Association Summary

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

GC Semi VOA (Continued)

Prep Batch: 384682 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-384682/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-384682/2-C	Lab Control Sample	Total/NA	Solid	3541	
180-132081-4 MS	T1-WC-B-FL-D-2201051520-0-12	Total/NA	Solid	3541	
180-132081-4 MSD	T1-WC-B-FL-D-2201051520-0-12	Total/NA	Solid	3541	

Cleanup Batch: 384815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-3	T1-WC-B-FL-D-2201051234-0-12	Total/NA	Solid	3665A	384682
180-132081-4	T1-WC-B-FL-D-2201051520-0-12	Total/NA	Solid	3665A	384682
MB 180-384682/1-C	Method Blank	Total/NA	Solid	3665A	384682
LCS 180-384682/2-C	Lab Control Sample	Total/NA	Solid	3665A	384682
180-132081-4 MS	T1-WC-B-FL-D-2201051520-0-12	Total/NA	Solid	3665A	384682
180-132081-4 MSD	T1-WC-B-FL-D-2201051520-0-12	Total/NA	Solid	3665A	384682

Cleanup Batch: 384816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-3	T1-WC-B-FL-D-2201051234-0-12	Total/NA	Solid	3660B	384815
180-132081-4	T1-WC-B-FL-D-2201051520-0-12	Total/NA	Solid	3660B	384815
MB 180-384682/1-C	Method Blank	Total/NA	Solid	3660B	384815
LCS 180-384682/2-C	Lab Control Sample	Total/NA	Solid	3660B	384815
180-132081-4 MS	T1-WC-B-FL-D-2201051520-0-12	Total/NA	Solid	3660B	384815
180-132081-4 MSD	T1-WC-B-FL-D-2201051520-0-12	Total/NA	Solid	3660B	384815

Leach Batch: 384835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	EPA 1311	
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	TCLP	Solid	EPA 1311	
LB 180-384835/1-E	Method Blank	TCLP	Solid	EPA 1311	
LB 180-384835/1-G	Method Blank	TCLP	Solid	EPA 1311	

Analysis Batch: 384861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-3	T1-WC-B-FL-D-2201051234-0-12	Total/NA	Solid	EPA 8082A	384816
180-132081-4	T1-WC-B-FL-D-2201051520-0-12	Total/NA	Solid	EPA 8082A	384816
MB 180-384682/1-C	Method Blank	Total/NA	Solid	EPA 8082A	384816
LCS 180-384682/2-C	Lab Control Sample	Total/NA	Solid	EPA 8082A	384816
180-132081-4 MS	T1-WC-B-FL-D-2201051520-0-12	Total/NA	Solid	EPA 8082A	384816
180-132081-4 MSD	T1-WC-B-FL-D-2201051520-0-12	Total/NA	Solid	EPA 8082A	384816

Prep Batch: 385068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	3510C	384835
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	TCLP	Solid	3510C	384835
LB 180-384835/1-E	Method Blank	TCLP	Solid	3510C	384835
MB 180-385068/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 180-385068/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 180-385068/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Prep Batch: 385097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	8151A	384835

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QC Association Summary

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

GC Semi VOA (Continued)

Prep Batch: 385097 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	TCLP	Solid	8151A	384835
LB 180-384835/1-G	Method Blank	TCLP	Solid	8151A	384835
MB 180-385097/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 180-385097/2-A	Lab Control Sample	Total/NA	Solid	8151A	
LCSD 180-385097/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	

Analysis Batch: 385331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	EPA 8081B	385068
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	TCLP	Solid	EPA 8081B	385068
LB 180-384835/1-E	Method Blank	TCLP	Solid	EPA 8081B	385068
MB 180-385068/1-A	Method Blank	Total/NA	Solid	EPA 8081B	385068
LCS 180-385068/2-A	Lab Control Sample	Total/NA	Solid	EPA 8081B	385068
LCSD 180-385068/3-A	Lab Control Sample Dup	Total/NA	Solid	EPA 8081B	385068

Analysis Batch: 385491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	EPA 8151A	385097
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	TCLP	Solid	EPA 8151A	385097
LB 180-384835/1-G	Method Blank	TCLP	Solid	EPA 8151A	385097
MB 180-385097/1-A	Method Blank	Total/NA	Solid	EPA 8151A	385097
LCS 180-385097/2-A	Lab Control Sample	Total/NA	Solid	EPA 8151A	385097
LCSD 180-385097/3-A	Lab Control Sample Dup	Total/NA	Solid	EPA 8151A	385097

Metals

Leach Batch: 384835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	EPA 1311	
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	TCLP	Solid	EPA 1311	
LB 180-384835/1-B	Method Blank	TCLP	Solid	EPA 1311	
LB 180-384835/1-D	Method Blank	TCLP	Solid	EPA 1311	
180-132081-1 MS	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	EPA 1311	
180-132081-1 MS	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	EPA 1311	
180-132081-1 MS	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	EPA 1311	
180-132081-1 MSD	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	EPA 1311	
180-132081-1 MSD	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	EPA 1311	
180-132081-1 MSD	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	EPA 1311	

Prep Batch: 384964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	7470A	384835
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	TCLP	Solid	7470A	384835
LB 180-384835/1-B	Method Blank	TCLP	Solid	7470A	384835
MB 180-384964/1-A	Method Blank	Total/NA	Solid	7470A	
LCS 180-384964/2-A	Lab Control Sample	Total/NA	Solid	7470A	
180-132081-1 MS	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	7470A	384835
180-132081-1 MSD	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	7470A	384835

QC Association Summary

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Metals

Prep Batch: 384966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	3010A	384835
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	TCLP	Solid	3010A	384835
LB 180-384835/1-D	Method Blank	TCLP	Solid	3010A	384835
MB 180-384966/1-A	Method Blank	Total/NA	Solid	3010A	
LCS 180-384966/2-A	Lab Control Sample	Total/NA	Solid	3010A	
180-132081-1 MS	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	3010A	384835
180-132081-1 MS	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	3010A	384835
180-132081-1 MSD	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	3010A	384835
180-132081-1 MSD	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	3010A	384835

Analysis Batch: 385098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	EPA 7470A	384964
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	TCLP	Solid	EPA 7470A	384964
LB 180-384835/1-B	Method Blank	TCLP	Solid	EPA 7470A	384964
MB 180-384964/1-A	Method Blank	Total/NA	Solid	EPA 7470A	384964
LCS 180-384964/2-A	Lab Control Sample	Total/NA	Solid	EPA 7470A	384964
180-132081-1 MS	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	EPA 7470A	384964
180-132081-1 MSD	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	EPA 7470A	384964

Analysis Batch: 385128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	EPA 6010D	384966
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	TCLP	Solid	EPA 6010D	384966
LB 180-384835/1-D	Method Blank	TCLP	Solid	EPA 6010D	384966
MB 180-384966/1-A	Method Blank	Total/NA	Solid	EPA 6010D	384966
LCS 180-384966/2-A	Lab Control Sample	Total/NA	Solid	EPA 6010D	384966
180-132081-1 MS	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	EPA 6010D	384966
180-132081-1 MS	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	EPA 6010D	384966
180-132081-1 MSD	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	EPA 6010D	384966
180-132081-1 MSD	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	EPA 6010D	384966

General Chemistry

Analysis Batch: 384571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	Total/NA	Solid	EPA 9045D	
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	Total/NA	Solid	EPA 9045D	
LCS 180-384571/1	Lab Control Sample	Total/NA	Solid	EPA 9045D	
180-132081-1 DU	T1-WC-B-FL-D-2201051234-0-12	Total/NA	Solid	EPA 9045D	

Analysis Batch: 384607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	Total/NA	Solid	EPA 1020B	
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	Total/NA	Solid	EPA 1020B	

Analysis Batch: 384673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	Total/NA	Solid	SM 2540G	
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	Total/NA	Solid	SM 2540G	
180-132081-1 DU	T1-WC-B-FL-D-2201051234-0-12	Total/NA	Solid	SM 2540G	

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QC Association Summary

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

General Chemistry

Analysis Batch: 384678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-3	T1-WC-B-FL-D-2201051234-0-12	Total/NA	Solid	2540G	
180-132081-4	T1-WC-B-FL-D-2201051520-0-12	Total/NA	Solid	2540G	

Analysis Batch: 384717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	Total/NA	Solid	2540G	
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	Total/NA	Solid	2540G	

Analysis Batch: 384927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	Total/NA	Solid	EPA 9095B	
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	Total/NA	Solid	EPA 9095B	
180-132081-1 DU	T1-WC-B-FL-D-2201051234-0-12	Total/NA	Solid	EPA 9095B	

Prep Batch: 384936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	Total/NA	Solid	9071B	
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	Total/NA	Solid	9071B	
MB 180-384936/1-A	Method Blank	Total/NA	Solid	9071B	
LCS 180-384936/2-A	Lab Control Sample	Total/NA	Solid	9071B	
180-132081-1 MS	T1-WC-B-FL-D-2201051234-0-12	Total/NA	Solid	9071B	
180-132081-1 MSD	T1-WC-B-FL-D-2201051234-0-12	Total/NA	Solid	9071B	

Leach Batch: 384972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	ASTM Leach	Solid	D3987-85	
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	ASTM Leach	Solid	D3987-85	
LB 180-384972/1-A	Method Blank	ASTM Leach	Solid	D3987-85	
LB 180-384972/1-B	Method Blank	ASTM Leach	Solid	D3987-85	
LB 180-384972/1-D	Method Blank	ASTM Leach	Solid	D3987-85	

Analysis Batch: 384998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	Total/NA	Solid	EPA 9071B	384936
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	Total/NA	Solid	EPA 9071B	384936
MB 180-384936/1-A	Method Blank	Total/NA	Solid	EPA 9071B	384936
LCS 180-384936/2-A	Lab Control Sample	Total/NA	Solid	EPA 9071B	384936
180-132081-1 MS	T1-WC-B-FL-D-2201051234-0-12	Total/NA	Solid	EPA 9071B	384936
180-132081-1 MSD	T1-WC-B-FL-D-2201051234-0-12	Total/NA	Solid	EPA 9071B	384936

Prep Batch: 385084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	ASTM Leach	Solid	410.4	384972
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	ASTM Leach	Solid	410.4	384972
LB 180-384972/1-B	Method Blank	ASTM Leach	Solid	410.4	384972
MB 180-385084/12-A	Method Blank	Total/NA	Solid	410.4	
MB 180-385084/36-A	Method Blank	Total/NA	Solid	410.4	
LCS 180-385084/35-A	Lab Control Sample	Total/NA	Solid	410.4	

QC Association Summary

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

General Chemistry

Analysis Batch: 385099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	ASTM Leach	Solid	SM 2540B	384972
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	ASTM Leach	Solid	SM 2540B	384972
LB 180-384972/1-A	Method Blank	ASTM Leach	Solid	SM 2540B	384972
MB 180-385099/1	Method Blank	Total/NA	Solid	SM 2540B	
LCS 180-385099/2	Lab Control Sample	Total/NA	Solid	SM 2540B	
LCSD 180-385099/3	Lab Control Sample Dup	Total/NA	Solid	SM 2540B	

Analysis Batch: 385108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	ASTM Leach	Solid	EPA 410.4	385084
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	ASTM Leach	Solid	EPA 410.4	385084
LB 180-384972/1-B	Method Blank	ASTM Leach	Solid	EPA 410.4	385084
MB 180-385084/12-A	Method Blank	Total/NA	Solid	EPA 410.4	385084
MB 180-385084/36-A	Method Blank	Total/NA	Solid	EPA 410.4	385084
LCS 180-385084/35-A	Lab Control Sample	Total/NA	Solid	EPA 410.4	385084

Prep Batch: 385196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	ASTM Leach	Solid	1664B	384972
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	ASTM Leach	Solid	1664B	384972
LB 180-384972/1-D	Method Blank	ASTM Leach	Solid	1664B	384972
MB 180-385196/1-A	Method Blank	Total/NA	Solid	1664B	
LCS 180-385196/2-A	Lab Control Sample	Total/NA	Solid	1664B	
LCSD 180-385196/3-A	Lab Control Sample Dup	Total/NA	Solid	1664B	

Analysis Batch: 385207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	1311	
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	TCLP	Solid	1311	
180-132081-1 DU	T1-WC-B-FL-D-2201051234-0-12	TCLP	Solid	1311	

Analysis Batch: 385240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	ASTM Leach	Solid	EPA 1664B	385196
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	ASTM Leach	Solid	EPA 1664B	385196
LB 180-384972/1-D	Method Blank	ASTM Leach	Solid	EPA 1664B	385196
MB 180-385196/1-A	Method Blank	Total/NA	Solid	EPA 1664B	385196
LCS 180-385196/2-A	Lab Control Sample	Total/NA	Solid	EPA 1664B	385196
LCSD 180-385196/3-A	Lab Control Sample Dup	Total/NA	Solid	EPA 1664B	385196

Analysis Batch: 385280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	ASTM Leach	Solid	EPA 350.1	384972
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	ASTM Leach	Solid	EPA 350.1	384972
LB 180-384972/1-A	Method Blank	ASTM Leach	Solid	EPA 350.1	384972
MB 180-385280/17	Method Blank	Total/NA	Solid	EPA 350.1	
LCS 180-385280/18	Lab Control Sample	Total/NA	Solid	EPA 350.1	

Prep Batch: 824075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	Total/NA	Solid	7.3.4	

QC Association Summary

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

General Chemistry (Continued)

Prep Batch: 824075 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	Total/NA	Solid	7.3.4	
MB 460-824075/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCSSRM 460-824075/3-A	Lab Control Sample	Total/NA	Solid	7.3.4	

Prep Batch: 824077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	Total/NA	Solid	7.3.3	
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	Total/NA	Solid	7.3.3	
MB 460-824077/1-A	Method Blank	Total/NA	Solid	7.3.3	
LCS 460-824077/2-A	Lab Control Sample	Total/NA	Solid	7.3.3	

Analysis Batch: 824080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	Total/NA	Solid	9034	824075
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	Total/NA	Solid	9034	824075
MB 460-824075/1-A	Method Blank	Total/NA	Solid	9034	824075
LCSSRM 460-824075/3-A	Lab Control Sample	Total/NA	Solid	9034	824075

Analysis Batch: 824085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	Total/NA	Solid	9014	824077
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	Total/NA	Solid	9014	824077
MB 460-824077/1-A	Method Blank	Total/NA	Solid	9014	824077
LCS 460-824077/2-A	Lab Control Sample	Total/NA	Solid	9014	824077

Lab Chronicle

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12

Lab Sample ID: 180-132081-1

Date Collected: 01/05/22 12:34

Matrix: Solid

Date Received: 01/07/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			100.03 g	2000 mL	384835	01/11/22 15:00	MRS	TAL PIT
TCLP	Prep	3510C			200 mL	10.0 mL	385073	01/13/22 09:30	CBY	TAL PIT
TCLP	Analysis	EPA 8270E		1	1 mL	1 mL	385325	01/17/22 18:02	VVP	TAL PIT
	Instrument ID: CH731									
TCLP	Leach	EPA 1311			100.03 g	2000 mL	384835	01/11/22 15:00	MRS	TAL PIT
TCLP	Prep	3510C			100 mL	40.0 mL	385068	01/13/22 08:45	CBY	TAL PIT
TCLP	Analysis	EPA 8081B		1			385331	01/17/22 11:25	DFE	TAL PIT
	Instrument ID: CHGC15									
TCLP	Leach	EPA 1311			100.03 g	2000 mL	384835	01/11/22 15:00	MRS	TAL PIT
TCLP	Prep	8151A			100 mL	10.0 mL	385097	01/13/22 12:30	CBY	TAL PIT
TCLP	Analysis	EPA 8151A		20			385491	01/19/22 07:00	JMO	TAL PIT
	Instrument ID: CGC1									
TCLP	Leach	EPA 1311			100.03 g	2000 mL	384835	01/11/22 15:00	MRS	TAL PIT
TCLP	Prep	3010A			5 mL	50 mL	384966	01/12/22 12:15	KFS	TAL PIT
TCLP	Analysis	EPA 6010D		1			385128	01/13/22 08:58	RJG	TAL PIT
	Instrument ID: C									
TCLP	Leach	EPA 1311			100.03 g	2000 mL	384835	01/11/22 15:00	MRS	TAL PIT
TCLP	Prep	7470A			25 mL	25 mL	384964	01/12/22 12:04	RJR	TAL PIT
TCLP	Analysis	EPA 7470A		1			385098	01/13/22 11:02	RJR	TAL PIT
	Instrument ID: HGY									
TCLP	Analysis	1311		1			385207	01/14/22 13:48	MRS	TAL PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	2540G		1			384717	01/10/22 17:09	CMR	TAL PIT
	Instrument ID: NOEQUIP									
Total/NA	Prep	7.3.3			10 g	50 mL	824077	01/19/22 10:00	HTV	TAL EDI
Total/NA	Analysis	9014		1	25 mL	25 mL	824085	01/19/22 14:45	HTV	TAL EDI
	Instrument ID: NOEQUIP									
Total/NA	Prep	7.3.4			10 g	50 mL	824075	01/19/22 10:00	HTV	TAL EDI
Total/NA	Analysis	9034		1	25 mL	25 mL	824080	01/19/22 14:45	HTV	TAL EDI
	Instrument ID: CBNAMS15									
Total/NA	Analysis	EPA 1020B		1			384607	01/08/22 13:39	BAC	TAL PIT
	Instrument ID: NOEQUIP									
ASTM Leach	Leach	D3987-85			100.28 g	2000 mL	384972	01/12/22 14:45	MRS	TAL PIT
ASTM Leach	Prep	1664B			980 mL	1000 mL	385196	01/14/22 13:00	SMV	TAL PIT
ASTM Leach	Analysis	EPA 1664B		1			385240	01/14/22 19:30	SMV	TAL PIT
	Instrument ID: NOEQUIP									
ASTM Leach	Leach	D3987-85			100.28 g	2000 mL	384972	01/12/22 14:45	MRS	TAL PIT
ASTM Leach	Analysis	EPA 350.1		1			385280	01/15/22 11:17	SNR	TAL PIT
	Instrument ID: BLUE-ASTORIA									
ASTM Leach	Leach	D3987-85			100.28 g	2000 mL	384972	01/12/22 14:45	MRS	TAL PIT
ASTM Leach	Prep	410.4			1 mL	1 mL	385084	01/13/22 12:38	ELS	TAL PIT
ASTM Leach	Analysis	EPA 410.4		1	1 mL	1 mL	385108	01/13/22 16:35	ELS	TAL PIT
	Instrument ID: GENESYS10S									
Total/NA	Analysis	EPA 9045D		1	19.99 mL	20 mL	384571	01/07/22 13:46	SMW	TAL PIT
	Instrument ID: NOEQUIP									

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Lab Chronicle

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12

Lab Sample ID: 180-132081-1

Date Collected: 01/05/22 12:34

Matrix: Solid

Date Received: 01/07/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9095B		1			384927	01/12/22 09:02	CMT	TAL PIT
ASTM Leach	Leach	D3987-85			100.28 g	2000 mL	384972	01/12/22 14:45	MRS	TAL PIT
ASTM Leach	Analysis	SM 2540B		1	100 mL	100 mL	385099	01/13/22 14:47	CMT	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 2540G		1			384673	01/10/22 10:37	JCR	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12

Lab Sample ID: 180-132081-1

Date Collected: 01/05/22 12:34

Matrix: Solid

Date Received: 01/07/22 10:30

Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9071B			30.0 g	30.0 g	384936	01/12/22 11:00	CBY	TAL PIT
Total/NA	Analysis	EPA 9071B		1			384998	01/13/22 01:25	CTM	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: T1-WC-B-FL-D-2201051520-0-12

Lab Sample ID: 180-132081-2

Date Collected: 01/05/22 15:20

Matrix: Solid

Date Received: 01/07/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			100.03 g	2000 mL	384835	01/11/22 15:00	MRS	TAL PIT
TCLP	Prep	3510C			200 mL	10.0 mL	385073	01/13/22 09:30	CBY	TAL PIT
TCLP	Analysis	EPA 8270E		1	1 mL	1 mL	385325	01/17/22 18:25	VVP	TAL PIT
		Instrument ID: CH731								
TCLP	Leach	EPA 1311			100.03 g	2000 mL	384835	01/11/22 15:00	MRS	TAL PIT
TCLP	Prep	3510C			100 mL	40.0 mL	385068	01/13/22 08:45	CBY	TAL PIT
TCLP	Analysis	EPA 8081B		1			385331	01/17/22 11:40	DFE	TAL PIT
		Instrument ID: CHGC15								
TCLP	Leach	EPA 1311			100.03 g	2000 mL	384835	01/11/22 15:00	MRS	TAL PIT
TCLP	Prep	8151A			100 mL	10.0 mL	385097	01/13/22 12:30	CBY	TAL PIT
TCLP	Analysis	EPA 8151A		20			385491	01/19/22 07:20	JMO	TAL PIT
		Instrument ID: CGC1								
TCLP	Leach	EPA 1311			100.03 g	2000 mL	384835	01/11/22 15:00	MRS	TAL PIT
TCLP	Prep	3010A			5 mL	50 mL	384966	01/12/22 12:15	KFS	TAL PIT
TCLP	Analysis	EPA 6010D		1			385128	01/13/22 09:39	RJG	TAL PIT
		Instrument ID: C								
TCLP	Leach	EPA 1311			100.03 g	2000 mL	384835	01/11/22 15:00	MRS	TAL PIT
TCLP	Prep	7470A			25 mL	25 mL	384964	01/12/22 12:04	RJR	TAL PIT
TCLP	Analysis	EPA 7470A		1			385098	01/13/22 11:08	RJR	TAL PIT
		Instrument ID: HGY								
TCLP	Analysis	1311		1			385207	01/14/22 13:48	MRS	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	2540G		1			384717	01/10/22 17:09	CMR	TAL PIT
		Instrument ID: NOEQUIP								

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Lab Chronicle

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Client Sample ID: T1-WC-B-FL-D-2201051520-0-12

Lab Sample ID: 180-132081-2

Date Collected: 01/05/22 15:20

Matrix: Solid

Date Received: 01/07/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7.3.3			10 g	50 mL	824077	01/19/22 10:00	HTV	TAL EDI
Total/NA	Analysis	9014		1	25 mL	25 mL	824085	01/19/22 14:45	HTV	TAL EDI
		Instrument ID: NOEQUIP								
Total/NA	Prep	7.3.4			10 g	50 mL	824075	01/19/22 10:00	HTV	TAL EDI
Total/NA	Analysis	9034		1	25 mL	25 mL	824080	01/19/22 14:45	HTV	TAL EDI
		Instrument ID: CBNAMS15								
Total/NA	Analysis	EPA 1020B		1			384607	01/08/22 13:45	BAC	TAL PIT
		Instrument ID: NOEQUIP								
ASTM Leach	Leach	D3987-85			100.03 g	2000 mL	384972	01/12/22 14:45	MRS	TAL PIT
ASTM Leach	Prep	1664B			980 mL	1000 mL	385196	01/14/22 13:00	SMV	TAL PIT
ASTM Leach	Analysis	EPA 1664B		1			385240	01/14/22 19:30	SMV	TAL PIT
		Instrument ID: NOEQUIP								
ASTM Leach	Leach	D3987-85			100.03 g	2000 mL	384972	01/12/22 14:45	MRS	TAL PIT
ASTM Leach	Analysis	EPA 350.1		1			385280	01/15/22 11:18	SNR	TAL PIT
		Instrument ID: BLUE-ASTORIA								
ASTM Leach	Leach	D3987-85			100.03 g	2000 mL	384972	01/12/22 14:45	MRS	TAL PIT
ASTM Leach	Prep	410.4			1 mL	1 mL	385084	01/13/22 12:38	ELS	TAL PIT
ASTM Leach	Analysis	EPA 410.4		1	1 mL	1 mL	385108	01/13/22 16:36	ELS	TAL PIT
		Instrument ID: GENESYS10S								
Total/NA	Analysis	EPA 9045D		1	19.91 mL	20 mL	384571	01/07/22 13:47	SMW	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	EPA 9095B		1			384927	01/12/22 09:11	CMT	TAL PIT
		Instrument ID: NOEQUIP								
ASTM Leach	Leach	D3987-85			100.03 g	2000 mL	384972	01/12/22 14:45	MRS	TAL PIT
ASTM Leach	Analysis	SM 2540B		1	100 mL	100 mL	385099	01/13/22 14:47	CMT	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 2540G		1			384673	01/10/22 10:37	JCR	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: T1-WC-B-FL-D-2201051520-0-12

Lab Sample ID: 180-132081-2

Date Collected: 01/05/22 15:20

Matrix: Solid

Date Received: 01/07/22 10:30

Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9071B			30.0 g	30.0 g	384936	01/12/22 11:00	CBY	TAL PIT
Total/NA	Analysis	EPA 9071B		1			384998	01/13/22 01:25	CTM	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12

Lab Sample ID: 180-132081-3

Date Collected: 01/05/22 12:34

Matrix: Solid

Date Received: 01/07/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			1.0 g	500 mL	384838	01/11/22 15:00	MRS	TAL PIT
TCLP	Analysis	EPA 8260D		1	0.25 mL	5 mL	384914	01/12/22 18:24	APD	TAL PIT
		Instrument ID: CHHP11								

Eurofins Pittsburgh

Lab Chronicle

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12

Lab Sample ID: 180-132081-3

Date Collected: 01/05/22 12:34

Matrix: Solid

Date Received: 01/07/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			384678	01/10/22 11:03	JCR	TAL PIT

Client Sample ID: T1-WC-B-FL-D-2201051234-0-12

Lab Sample ID: 180-132081-3

Date Collected: 01/05/22 12:34

Matrix: Solid

Date Received: 01/07/22 10:30

Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.19 g	20.0 mL	384682	01/10/22 11:30	CSC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	384815	01/11/22 09:54	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	384816	01/11/22 09:55	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			384861	01/12/22 20:23	JMO	TAL PIT
Instrument ID: CHGC20										

Client Sample ID: T1-WC-B-FL-D-2201051520-0-12

Lab Sample ID: 180-132081-4

Date Collected: 01/05/22 15:20

Matrix: Solid

Date Received: 01/07/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25.03 g	500 mL	384838	01/11/22 15:00	MRS	TAL PIT
TCLP	Analysis	EPA 8260D		1	0.25 mL	5 mL	384914	01/12/22 15:28	APD	TAL PIT
Instrument ID: CHHP11										
Total/NA	Analysis	2540G		1			384678	01/10/22 11:03	JCR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: T1-WC-B-FL-D-2201051520-0-12

Lab Sample ID: 180-132081-4

Date Collected: 01/05/22 15:20

Matrix: Solid

Date Received: 01/07/22 10:30

Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.04 g	20.0 mL	384682	01/10/22 11:30	CSC	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	384815	01/11/22 09:54	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	384816	01/11/22 09:55	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1			384861	01/12/22 19:26	JMO	TAL PIT
Instrument ID: CHGC20										

Laboratory References:

TAL EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Analyst References:

Lab: TAL EDI

Batch Type: Prep

HTV = Huan Vu

Batch Type: Analysis

HTV = Huan Vu

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

MRS = Michael Serpa

Batch Type: Prep

CBY = Charles Yushinski

CSC = Chayce Cockroft

ELS = Edwin Shireman

KFS = Kelly Shannon

RJR = Ron Rosenbaum

SMV = Sarah Vander Wagen

Batch Type: Analysis

APD = Aaron DeLeo

BAC = Blase Cindric

CMR = Carl Reagle

CMT = Cassandra Tlumac

CTM = Connor Mitsch

DFE = David Eppinger

ELS = Edwin Shireman

JCR = Jessica Rodgers

JMO = John Oravec

MRS = Michael Serpa

RJG = Rob Good

RJR = Ron Rosenbaum

SMV = Sarah Vander Wagen

SMW = Shelby Walters

SNR = Sabra Richart

VVP = Vincent Piccolino

Accreditation/Certification Summary

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Laboratory: Eurofins Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	02-00416	04-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
1311		Solid	TCLP pH Post-Leach

Laboratory: Eurofins Edison

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

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0200	09-30-22
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-01-23
Georgia	State	12028 (NJ)	06-30-22
Massachusetts	State	M-NJ312	06-30-22
New Jersey	NELAP	12028	07-01-23
New York	NELAP	11452	04-01-23
Pennsylvania	NELAP	68-00522	02-03-22
Rhode Island	State	LAO00376	12-31-22
USDA	US Federal Programs	P330-20-00244	11-03-23

Method Summary

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Method	Method Description	Protocol	Laboratory
EPA 8260D	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
EPA 8270E	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PIT
EPA 8081B	Organochlorine Pesticides (GC)	SW846	TAL PIT
EPA 8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
EPA 8151A	Herbicides (GC)	SW846	TAL PIT
EPA 6010D	Metals (ICP)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
1311	TCLP pH Post Leach	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide, Reactive	SW846	TAL EDI
9034	Sulfide, Reactive	SW846	TAL EDI
EPA 1020B	Ignitability, Small Scale Closed-Cup Method	SW846	TAL PIT
EPA 1664B	HEM and SGT-HEM	EPA	TAL PIT
EPA 350.1	Nitrogen, Ammonia	EPA	TAL PIT
EPA 410.4	COD	MCAWW	TAL PIT
EPA 9045D	pH	SW846	TAL PIT
EPA 9071B	HEM and SGT-HEM	SW846	TAL PIT
EPA 9095B	Paint Filter	SW846	TAL PIT
SM 2540B	Total Solids	SM	TAL PIT
SM 2540G	Total, Fixed, and Volatile Solids	SM	TAL PIT
1311	TCLP Extraction	SW846	TAL PIT
1664B	HEM and SGT-HEM (SPE)	1664B	TAL PIT
3010A	Preparation, Total Metals	SW846	TAL PIT
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL PIT
3541	Automated Soxhlet Extraction	SW846	TAL PIT
3660B	Sulfur Cleanup	SW846	TAL PIT
3665A	Sulfuric Acid/Permanganate Cleanup	SW846	TAL PIT
410.4	COD	MCAWW	TAL PIT
5030C	Purge and Trap	SW846	TAL PIT
7.3.3	Cyanide, Reactive	SW846	TAL EDI
7.3.4	Sulfide, Reactive	SW846	TAL EDI
7470A	Preparation, Mercury	SW846	TAL PIT
8151A	Extraction (Herbicides)	SW846	TAL PIT
9071B	Preparation, HEM and SGT-HEM	SW846	TAL PIT
D3987-85	ASTM Leaching Procedure	ASTM	TAL PIT
EPA 1311	TCLP Extraction	SW846	TAL PIT

Protocol References:

1664B = EPA-821-98-002

ASTM = ASTM International

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

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

Laboratory References:

TAL EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Sample Summary

Client: Anchor QEA LLC
Project/Site: Vo Toys - Harrison, NJ

Job ID: 180-132081-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-132081-1	T1-WC-B-FL-D-2201051234-0-12	Solid	01/05/22 12:34	01/07/22 10:30
180-132081-2	T1-WC-B-FL-D-2201051520-0-12	Solid	01/05/22 15:20	01/07/22 10:30
180-132081-3	T1-WC-B-FL-D-2201051234-0-12	Solid	01/05/22 12:34	01/07/22 10:30
180-132081-4	T1-WC-B-FL-D-2201051520-0-12	Solid	01/05/22 15:20	01/07/22 10:30

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CHHP11 Analysis Batch Number: 382231Lab Sample ID: IC 180-382231/6 Client Sample ID: _____Date Analyzed: 12/15/21 10:32 Lab File ID: 11121521A06.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.70	Assign Peak	deleoa	12/15/21 11:35
Chloromethane	1.93	Assign Peak	deleoa	12/15/21 10:52
1,3-Butadiene	2.08	Assign Peak	deleoa	12/15/21 10:52
Bromomethane	2.46	Assign Peak	deleoa	12/15/21 10:52
Chloroethane	2.58	Assign Peak	deleoa	12/15/21 10:52
Dichlorofluoromethane	2.88	Assign Peak	deleoa	12/15/21 10:53
Trichlorofluoromethane	2.90	Assign Peak	deleoa	12/15/21 10:53
Ethyl ether	3.28	Assign Peak	deleoa	12/15/21 10:53
1,1-Dichloroethene	3.63	Assign Peak	deleoa	12/15/21 10:53
1,1,2-Trichloro-1,2,2-trifluoroethane	3.67	Assign Peak	deleoa	12/15/21 10:53
Iodomethane	3.84	Assign Peak	deleoa	12/15/21 11:35
Acetone	3.85	Assign Peak	deleoa	12/15/21 12:41
Carbon disulfide	3.95	Assign Peak	deleoa	12/15/21 11:35
Allyl chloride	4.24	Assign Peak	deleoa	12/15/21 11:35
Methyl acetate	4.26	Assign Peak	deleoa	12/15/21 11:35
Methylene Chloride	4.45	Assign Peak	deleoa	12/15/21 11:35
Acrylonitrile	4.84	Assign Peak	deleoa	12/15/21 11:36
trans-1,2-Dichloroethene	4.84	Assign Peak	deleoa	12/15/21 11:36
Methyl tert-butyl ether	4.85	Assign Peak	deleoa	12/15/21 11:36
tert-Butyl alcohol	4.88	Assign Peak	deleoa	12/15/21 12:04
TBA-d9 (IS)	5.06	Assign Peak	deleoa	12/15/21 12:05
1,1-Dichloroethane	5.46	Assign Peak	deleoa	12/15/21 11:36
2,2-Dichloropropane	6.20	Assign Peak	deleoa	12/15/21 11:49
2-Butanone (MEK)	6.25	Assign Peak	deleoa	12/15/21 12:16
Chlorobromomethane	6.47	Assign Peak	deleoa	12/15/21 11:37
Tetrahydrofuran	6.53	Assign Peak	deleoa	12/15/21 12:15
1,1,1-Trichloroethane	6.79	Assign Peak	deleoa	12/15/21 11:37
Cyclohexane	6.85	Assign Peak	deleoa	12/15/21 11:37
Carbon tetrachloride	6.95	Assign Peak	deleoa	12/15/21 11:37

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CHHP11 Analysis Batch Number: 382231Lab Sample ID: IC 180-382231/6 Client Sample ID: _____Date Analyzed: 12/15/21 10:32 Lab File ID: 11121521A06.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane-d4 (Surr)	7.17	Assign Peak	deleoa	12/15/21 10:52
Benzene	7.17	Assign Peak	deleoa	12/15/21 11:37
Isobutyl alcohol	7.39	Assign Peak	deleoa	12/15/21 11:38
Trichloroethene	7.91	Assign Peak	deleoa	12/15/21 11:38
1,2-Dichloropropane	8.18	Assign Peak	deleoa	12/15/21 11:38
1,4-Dioxane	8.42	Assign Peak	deleoa	12/15/21 11:38
Dichlorobromomethane	8.46	Assign Peak	deleoa	12/15/21 11:38
cis-1,3-Dichloropropene	8.90	Assign Peak	deleoa	12/15/21 11:38
4-Methyl-2-pentanone (MIBK)	9.08	Assign Peak	deleoa	12/15/21 11:38
Toluene-d8 (Surr)	9.16	Assign Peak	deleoa	12/15/21 10:52
Ethyl methacrylate	9.54	Assign Peak	deleoa	12/15/21 11:39
1,1,1,2-Tetrachloroethane	10.74	Assign Peak	deleoa	12/15/21 11:39
Ethylbenzene	10.74	Assign Peak	deleoa	12/15/21 11:39
m-Xylene & p-Xylene	10.87	Assign Peak	deleoa	12/15/21 11:39
Bromoform	11.47	Assign Peak	deleoa	12/15/21 11:39
1,1,2,2-Tetrachloroethane	11.94	Assign Peak	deleoa	12/15/21 11:39
1,2,3-Trichloropropane	12.00	Assign Peak	deleoa	12/15/21 11:40
1,2-Dibromo-3-Chloropropane	14.15	Assign Peak	deleoa	12/15/21 11:40
1,2,4-Trichlorobenzene	14.96	Assign Peak	deleoa	12/15/21 11:40

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CHHP11 Analysis Batch Number: 382231Lab Sample ID: IC 180-382231/7 Client Sample ID: _____Date Analyzed: 12/15/21 10:57 Lab File ID: 11121521A07.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.93	Assign Peak	deleoa	12/15/21 11:17
1,3-Butadiene	2.10	Assign Peak	deleoa	12/15/21 11:17
Trichlorofluoromethane	2.90	Assign Peak	deleoa	12/15/21 13:11
Ethyl ether	3.27	Assign Peak	deleoa	12/15/21 11:18
1,1-Dichloroethene	3.64	Assign Peak	deleoa	12/15/21 11:18
1,1,2-Trichloro-1,2,2-trifluoroethane	3.70	Assign Peak	deleoa	12/15/21 11:18
Acetone	3.77	Assign Peak	deleoa	12/15/21 12:42
Iodomethane	3.86	Assign Peak	deleoa	12/15/21 11:18
Carbon disulfide	3.94	Assign Peak	deleoa	12/15/21 11:24
Allyl chloride	4.23	Assign Peak	deleoa	12/15/21 11:21
Methyl acetate	4.24	Assign Peak	deleoa	12/15/21 11:54
tert-Butyl alcohol	4.77	Assign Peak	deleoa	12/15/21 11:54
Acrylonitrile	4.82	Assign Peak	deleoa	12/15/21 13:04
trans-1,2-Dichloroethene	4.85	Assign Peak	deleoa	12/15/21 11:22
1,1-Dichloroethane	5.46	Assign Peak	deleoa	12/15/21 13:12
cis-1,2-Dichloroethene	6.20	Assign Peak	deleoa	12/15/21 11:23
2,2-Dichloropropane	6.21	Assign Peak	deleoa	12/15/21 11:22
2-Butanone (MEK)	6.22	Assign Peak	deleoa	12/15/21 13:12
Chlorobromomethane	6.48	Assign Peak	deleoa	12/15/21 11:25
Chloroform	6.62	Assign Peak	deleoa	12/15/21 11:55
Cyclohexane	6.86	Assign Peak	deleoa	12/15/21 11:55
Carbon tetrachloride	6.95	Assign Peak	deleoa	12/15/21 11:55
1,1-Dichloropropene	6.96	Assign Peak	deleoa	12/15/21 11:55
1,2-Dichloroethane-d4 (Surr)	7.17	Assign Peak	deleoa	12/15/21 11:17
Benzene	7.18	Assign Peak	deleoa	12/15/21 11:55
n-Heptane	7.53	Assign Peak	deleoa	12/15/21 11:56
Trichloroethene	7.90	Assign Peak	deleoa	12/15/21 11:56
Methylcyclohexane	8.14	Assign Peak	deleoa	12/15/21 11:56
1,2-Dichloropropane	8.18	Assign Peak	deleoa	12/15/21 11:56

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CHHP11 Analysis Batch Number: 382231Lab Sample ID: IC 180-382231/7 Client Sample ID: _____Date Analyzed: 12/15/21 10:57 Lab File ID: 11121521A07.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibromomethane	8.27	Assign Peak	deleoa	12/15/21 11:57
1,4-Dioxane	8.35	Assign Peak	deleoa	12/15/21 11:23
Dichlorobromomethane	8.47	Assign Peak	deleoa	12/15/21 11:23
trans-1,3-Dichloropropene	9.48	Assign Peak	deleoa	12/15/21 11:23
Tetrachloroethene	9.74	Assign Peak	deleoa	12/15/21 11:57
1,2,4-Trichlorobenzene	14.97	Assign Peak	deleoa	12/15/21 11:24
1,2,3-Trichlorobenzene	15.47	Assign Peak	deleoa	12/15/21 11:24

Lab Sample ID: ICIS 180-382231/8 Client Sample ID: _____Date Analyzed: 12/15/21 11:23 Lab File ID: 11121521A08.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.94	Assign Peak	deleoa	12/15/21 11:42
1,1,2-Trichloro-1,2,2-trifluoroethane	3.70	Assign Peak	deleoa	12/15/21 11:42
Acetone	3.77	Peak assignment corrected	deleoa	12/15/21 12:17
Iodomethane	3.86	Assign Peak	deleoa	12/15/21 11:43
Methyl acetate	4.24	Assign Peak	deleoa	12/15/21 11:43
Allyl chloride	4.25	Assign Peak	deleoa	12/15/21 11:44
Acrylonitrile	4.84	Assign Peak	deleoa	12/15/21 11:44
trans-1,2-Dichloroethene	4.86	Assign Peak	deleoa	12/15/21 11:44
1,1-Dichloroethane	5.45	Assign Peak	deleoa	12/15/21 11:44
2,2-Dichloropropane	6.20	Assign Peak	deleoa	12/15/21 11:44
2-Butanone (MEK)	6.22	Assign Peak	deleoa	12/15/21 12:17
Carbon tetrachloride	6.95	Assign Peak	deleoa	12/15/21 11:45
1,4-Dioxane	8.35	Assign Peak	deleoa	12/15/21 11:45

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CHHP11 Analysis Batch Number: 382231Lab Sample ID: IC 180-382231/9 Client Sample ID: _____Date Analyzed: 12/15/21 11:48 Lab File ID: 11121521A09.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.93	Assign Peak	deleoa	12/15/21 12:08
Trichlorofluoromethane	2.90	Assign Peak	deleoa	12/15/21 12:09
Acetone	3.73	Assign Peak	deleoa	12/15/21 12:42
Methyl acetate	4.24	Assign Peak	deleoa	12/15/21 12:09
Allyl chloride	4.26	Assign Peak	deleoa	12/15/21 12:10
Hexane	5.24	Assign Peak	deleoa	12/15/21 12:10
1,1-Dichloroethane	5.46	Assign Peak	deleoa	12/15/21 12:10
2-Butanone (MEK)	6.23	Peak assignment corrected	deleoa	12/15/21 12:17
Dibromomethane	8.27	Assign Peak	deleoa	12/15/21 12:11
1,4-Dioxane	8.32	Assign Peak	deleoa	12/15/21 12:11
Dichlorobromomethane	8.46	Assign Peak	deleoa	12/15/21 12:11
o-Xylene	11.26	Assign Peak	deleoa	12/15/21 12:12

Lab Sample ID: IC 180-382231/10 Client Sample ID: _____Date Analyzed: 12/15/21 12:13 Lab File ID: 11121521A10.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.93	Assign Peak	deleoa	12/15/21 12:32
Vinyl chloride	2.05	Assign Peak	deleoa	12/15/21 12:32
Dichlorofluoromethane	2.88	Assign Peak	deleoa	12/15/21 12:33
1,1,2-Trichloro-1,2,2-trifluoroethane	3.69	Assign Peak	deleoa	12/15/21 12:33
Acetone	3.75	Assign Peak	deleoa	12/15/21 12:42
Carbon disulfide	3.94	Assign Peak	deleoa	12/15/21 12:45
Allyl chloride	4.24	Assign Peak	deleoa	12/15/21 12:34
tert-Butyl alcohol	4.73	Assign Peak	deleoa	12/15/21 13:17
2-Butanone (MEK)	6.23	Assign Peak	deleoa	12/15/21 13:14
1,4-Dioxane	8.42	Assign Peak	deleoa	12/15/21 12:35
Tetrachloroethene	9.75	Assign Peak	deleoa	12/15/21 12:35

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CHHP11 Analysis Batch Number: 382231Lab Sample ID: IC 180-382231/11 Client Sample ID: _____Date Analyzed: 12/15/21 12:39 Lab File ID: 11121521A11.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.94	Assign Peak	deleoa	12/15/21 12:57
1,1-Dichloroethene	3.64	Assign Peak	deleoa	12/15/21 12:58
Acetone	3.75	Assign Peak	deleoa	12/15/21 12:58
Allyl chloride	4.26	Assign Peak	deleoa	12/15/21 12:58
Methylene Chloride	4.47	Assign Peak	deleoa	12/15/21 12:59
TBA-d9 (IS)	4.62	Assign Peak	deleoa	12/15/21 13:23
tert-Butyl alcohol	4.76	Assign Peak	deleoa	12/15/21 12:59
Acrylonitrile	4.82	Assign Peak	deleoa	12/15/21 12:59
trans-1,2-Dichloroethene	4.86	Assign Peak	deleoa	12/15/21 13:00
n-Heptane	7.53	Assign Peak	deleoa	12/15/21 13:01
1,4-Dioxane	8.34	Assign Peak	deleoa	12/15/21 13:01

Lab Sample ID: IC 180-382231/12 Client Sample ID: _____Date Analyzed: 12/15/21 13:04 Lab File ID: 11121521A12.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.94	Assign Peak	deleoa	12/15/21 13:23
1,1,2-Trichloro-1,2,2-trifluoroethane	3.69	Assign Peak	deleoa	12/15/21 13:24
Acetone	3.74	Assign Peak	deleoa	12/15/21 13:24
Allyl chloride	4.25	Assign Peak	deleoa	12/15/21 13:24
TBA-d9 (IS)	4.62	Assign Peak	deleoa	12/15/21 13:25
tert-Butyl alcohol	4.73	Assign Peak	deleoa	12/15/21 13:25
2,2-Dichloropropane	6.21	Assign Peak	deleoa	12/15/21 13:26
Isobutyl alcohol	7.19	Assign Peak	deleoa	12/15/21 13:27

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CHHP11 Analysis Batch Number: 382231Lab Sample ID: IC 180-382231/13 Client Sample ID: _____Date Analyzed: 12/15/21 13:29 Lab File ID: 11121521A13.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.94	Assign Peak	deleoa	12/15/21 13:50
Dichlorofluoromethane	2.89	Assign Peak	deleoa	12/15/21 13:51
1,1-Dichloroethene	3.66	Assign Peak	deleoa	12/15/21 13:51
Acetone	3.75	Assign Peak	deleoa	12/15/21 13:52
Methyl acetate	4.25	Assign Peak	deleoa	12/15/21 13:52
tert-Butyl alcohol	4.77	Assign Peak	deleoa	12/15/21 13:53
1,4-Dioxane	8.37	Assign Peak	deleoa	12/15/21 13:55

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CHHP11 Analysis Batch Number: 384914Lab Sample ID: CCVIS 180-384914/2 Client Sample ID: _____Date Analyzed: 01/12/22 08:21 Lab File ID: 1101122202.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.92	Assign Peak	deleoa	01/12/22 08:40
Vinyl chloride	2.05	Assign Peak	deleoa	01/12/22 08:40
Dichlorofluoromethane	2.90	Assign Peak	deleoa	01/12/22 08:40
Trichlorofluoromethane	2.91	Assign Peak	deleoa	01/12/22 08:40
1,1-Dichloroethene	3.65	Assign Peak	deleoa	01/12/22 08:41
1,1,2-Trichloro-1,2,2-trifluoroethane	3.68	Assign Peak	deleoa	01/12/22 09:05
Acetone	3.77	Assign Peak	deleoa	01/12/22 08:41
Allyl chloride	4.23	Assign Peak	deleoa	01/12/22 08:41
1,1-Dichloroethane	5.46	Assign Peak	deleoa	01/12/22 08:42
2-Butanone (MEK)	6.24	Assign Peak	deleoa	01/12/22 08:42
1,4-Dioxane	8.32	Assign Peak	deleoa	01/12/22 08:42

Lab Sample ID: LCS 180-384914/3 Client Sample ID: _____Date Analyzed: 01/12/22 08:46 Lab File ID: 1101122203.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	3.65	Peak assignment corrected	deleoa	01/12/22 09:06
2-Butanone (MEK)	6.22	Peak assignment corrected	deleoa	01/12/22 09:06

Lab Sample ID: LCSD 180-384914/5 Client Sample ID: _____Date Analyzed: 01/12/22 09:36 Lab File ID: 1101122205.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	3.65	Assign Peak	deleoa	01/12/22 12:54
2-Butanone (MEK)	6.24	Assign Peak	deleoa	01/12/22 12:55

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CHHP11 Analysis Batch Number: 384914Lab Sample ID: LB 180-384838/1-A Client Sample ID: _____Date Analyzed: 01/12/22 14:38 Lab File ID: 1101122217.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroform	6.62	Assign Peak	deleoa	01/12/22 15:23

Lab Sample ID: 180-132081-4 Client Sample ID: _____Date Analyzed: 01/12/22 15:28 Lab File ID: 1101122219.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TBA-d9 (IS)	4.60	Assign Peak	deleoa	01/12/22 15:48

Lab Sample ID: 180-132081-3 MS Client Sample ID: T1-WC-B-FL-D-2201051234-0-12 MSDate Analyzed: 01/12/22 16:44 Lab File ID: 1101122222.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	3.65	Peak assignment corrected	deleoa	01/12/22 17:14
2-Butanone (MEK)	6.22	Peak assignment corrected	deleoa	01/12/22 17:14

Lab Sample ID: 180-132081-3 MSD Client Sample ID: T1-WC-B-FL-D-2201051234-0-12 MSDDate Analyzed: 01/12/22 17:09 Lab File ID: 1101122223.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	3.65	Assign Peak	deleoa	01/13/22 09:30

Lab Sample ID: 180-132081-3 Client Sample ID: T1-WC-B-FL-D-2201051234-0-12Date Analyzed: 01/12/22 18:24 Lab File ID: 1101122226.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroform	6.61	Assign Peak	deleoa	01/13/22 08:36

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CH731 Analysis Batch Number: 383112Lab Sample ID: IC 180-383112/3 Client Sample ID: _____Date Analyzed: 12/22/21 09:29 Lab File ID: V1222003.D GC Column: Rxi-5SilMS ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	1.39	Incomplete Integration	piccolino v	12/22/21 11:57
N-Nitrosodimethylamine	1.85	Incomplete Integration	piccolino v	12/22/21 11:57
Pyridine	1.89	Incomplete Integration	piccolino v	12/22/21 11:57
Methyl methanesulfonate	4.13	Incomplete Integration	piccolino v	12/22/21 11:57
Isophorone	6.50	Incomplete Integration	piccolino v	12/22/21 11:57
2-Nitrophenol	6.58	Incomplete Integration	piccolino v	12/22/21 11:57
Bis (2-chloroethoxy)methane	6.71	Incomplete Integration	piccolino v	12/22/21 11:57
Dimethyl phthalate	8.27	Incomplete Integration	piccolino v	12/22/21 11:57
3-Nitroaniline	8.46	Incomplete Integration	piccolino v	12/22/21 11:58
4,6-Dinitro-2-methylphenol	9.05	Incomplete Integration	piccolino v	12/22/21 11:58
Benzidine	11.06	Incomplete Integration	piccolino v	12/22/21 11:58
Bis(2-ethylhexyl) phthalate	12.76	Incomplete Integration	piccolino v	12/22/21 11:58
Di-n-octyl phthalate	13.72	Incomplete Integration	piccolino v	12/22/21 11:58
7,12-Dimethylbenz (a) anthracene	14.29	Incomplete Integration	piccolino v	12/22/21 11:58
Indeno[1,2,3-cd]pyrene	16.32	Incomplete Integration	piccolino v	12/22/21 11:59
Benzo[g,h,i]perylene	16.75	Incomplete Integration	piccolino v	12/22/21 11:59

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CH731 Analysis Batch Number: 383112Lab Sample ID: IC 180-383112/4 Client Sample ID: _____Date Analyzed: 12/22/21 09:51 Lab File ID: V1222004.D GC Column: Rxi-5SilMS ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	1.41	Incomplete Integration	piccolino v	12/22/21 11:55
Pyridine	1.90	Incomplete Integration	piccolino v	12/22/21 11:55
Bis(2-ethylhexyl) phthalate	12.76	Incomplete Integration	piccolino v	12/22/21 11:56
Benzo[a]pyrene	14.76	Incomplete Integration	piccolino v	12/22/21 11:56
Indeno[1,2,3-cd]pyrene	16.33	Incomplete Integration	piccolino v	12/22/21 11:56
Dibenz(a,h)anthracene	16.34	Incomplete Integration	piccolino v	12/22/21 11:56

Lab Sample ID: IC 180-383112/5 Client Sample ID: _____Date Analyzed: 12/22/21 10:12 Lab File ID: V1222005.D GC Column: Rxi-5SilMS ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	1.40	Peak assignment corrected	piccolino v	12/22/21 11:54
Benzoic acid	6.67	Incomplete Integration	piccolino v	12/22/21 11:54

Lab Sample ID: ICIS 180-383112/6 Client Sample ID: _____Date Analyzed: 12/22/21 10:34 Lab File ID: V1222006.D GC Column: Rxi-5SilMS ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	6.68	Incomplete Integration	piccolino v	12/22/21 11:53

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CH731 Analysis Batch Number: 383112Lab Sample ID: IC 180-383112/7 Client Sample ID: _____Date Analyzed: 12/22/21 10:55 Lab File ID: V1222007.D GC Column: Rxi-5SilMS ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	6.69	Incomplete Integration	piccolino v	12/22/21 12:00

Lab Sample ID: IC 180-383112/9 Client Sample ID: _____Date Analyzed: 12/22/21 11:39 Lab File ID: V1222009.D GC Column: Rxi-5SilMS ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	6.72	Peak assignment corrected	piccolino v	12/22/21 12:01

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CH731 Analysis Batch Number: 385325Lab Sample ID: LB 180-384835/1-F Client Sample ID: _____Date Analyzed: 01/17/22 12:40 Lab File ID: V0117013.D GC Column: Rxi-5SilMS ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4,6-Tribromophenol (Surr)	9.32	Peak assignment corrected	piccolino v	01/17/22 13:15

PESTICIDES MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CHGC15 Analysis Batch Number: 384283

Lab Sample ID: IC 180-384283/2 Client Sample ID: _____

Date Analyzed: 01/05/22 10:18 Lab File ID: Q0105220000002.D GC Column: MR-1 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene		Unspecified		
Toxaphene Peak 1	7.08	Baseline Smoothing	eppinged	01/05/22 11:29
Toxaphene Peak 2	7.35	Baseline Smoothing	eppinged	01/05/22 11:29
Toxaphene Peak 3	7.81	Baseline Smoothing	eppinged	01/05/22 11:29
Toxaphene Peak 4	7.89	Baseline Smoothing	eppinged	01/05/22 11:29
Dibutylchloredate ISTD	8.30	Baseline Smoothing	eppinged	01/05/22 11:29

Lab Sample ID: IC 180-384283/2 Client Sample ID: _____

Date Analyzed: 01/05/22 10:18 Lab File ID: Q0105220000002.D GC Column: MR-2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene		Unspecified		
Toxaphene Peak 1	7.47	Baseline Smoothing	eppinged	01/05/22 11:29
Toxaphene Peak 2	7.52	Baseline Smoothing	eppinged	01/05/22 11:29
Toxaphene Peak 3	8.27	Baseline Smoothing	eppinged	01/05/22 11:29
Dibutylchloredate ISTD	8.53	Baseline Smoothing	eppinged	01/05/22 11:29
Toxaphene Peak 4	8.77	Baseline Smoothing	eppinged	01/05/22 11:29

Lab Sample ID: IC 180-384283/3 Client Sample ID: _____

Date Analyzed: 01/05/22 10:34 Lab File ID: Q0105220000003.D GC Column: MR-2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene		Unspecified		
Toxaphene Peak 1	7.48	Baseline Smoothing	eppinged	01/05/22 10:50
Toxaphene Peak 2	7.52	Baseline Smoothing	eppinged	01/05/22 10:50
Toxaphene Peak 3	8.27	Baseline Smoothing	eppinged	01/05/22 10:50
Dibutylchloredate ISTD	8.52	Baseline Smoothing	eppinged	01/05/22 10:50
Toxaphene Peak 4	8.77	Baseline Smoothing	eppinged	01/05/22 10:50

PESTICIDES MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CHGC15 Analysis Batch Number: 384283Lab Sample ID: IC 180-384283/4 Client Sample ID: _____Date Analyzed: 01/05/22 10:50 Lab File ID: Q0105220000004.D GC Column: MR-1 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibutylchloredate ISTD	8.30	Peak assignment corrected	eppinged	01/05/22 11:07

Lab Sample ID: IC 180-384283/4 Client Sample ID: _____Date Analyzed: 01/05/22 10:50 Lab File ID: Q0105220000004.D GC Column: MR-2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 2	7.53	Baseline Smoothing	eppinged	01/05/22 11:08
Toxaphene Peak 3	8.28	Baseline Smoothing	eppinged	01/05/22 11:08
Dibutylchloredate ISTD	8.54	Baseline Smoothing	eppinged	01/05/22 11:08
Toxaphene Peak 4	8.78	Baseline Smoothing	eppinged	01/05/22 11:08

Lab Sample ID: IC 180-384283/5 Client Sample ID: _____Date Analyzed: 01/05/22 11:05 Lab File ID: Q0105220000005.D GC Column: MR-1 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene		Unspecified		
Toxaphene Peak 1	7.08	Baseline Smoothing	eppinged	01/05/22 11:27
Toxaphene Peak 2	7.35	Baseline Smoothing	eppinged	01/05/22 11:27
Toxaphene Peak 3	7.81	Baseline Smoothing	eppinged	01/05/22 11:27
Toxaphene Peak 4	7.89	Baseline Smoothing	eppinged	01/05/22 11:27
Dibutylchloredate ISTD	8.31	Baseline Smoothing	eppinged	01/05/22 11:27

PESTICIDES MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CHGC15 Analysis Batch Number: 384283Lab Sample ID: IC 180-384283/5 Client Sample ID: _____Date Analyzed: 01/05/22 11:05 Lab File ID: Q0105220000005.D GC Column: MR-2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene		Unspecified		
Toxaphene Peak 1	7.48	Baseline Smoothing	eppinged	01/05/22 11:27
Toxaphene Peak 2	7.53	Baseline Smoothing	eppinged	01/05/22 11:27
Toxaphene Peak 3	8.28	Baseline Smoothing	eppinged	01/05/22 11:27
Dibutylchloredate ISTD	8.53	Baseline Smoothing	eppinged	01/05/22 11:27
Toxaphene Peak 4	8.78	Baseline Smoothing	eppinged	01/05/22 11:27

Lab Sample ID: IC 180-384283/6 Client Sample ID: _____Date Analyzed: 01/05/22 11:21 Lab File ID: Q0105220000006.D GC Column: MR-2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene		Unspecified		
Toxaphene Peak 1	7.48	Baseline Smoothing	eppinged	01/05/22 11:35
Toxaphene Peak 2	7.53	Baseline Smoothing	eppinged	01/05/22 11:35
Toxaphene Peak 3	8.27	Baseline Smoothing	eppinged	01/05/22 11:35
Dibutylchloredate ISTD	8.53	Baseline Smoothing	eppinged	01/05/22 11:35
Toxaphene Peak 4	8.77	Baseline Smoothing	eppinged	01/05/22 11:35

Lab Sample ID: IC 180-384283/7 Client Sample ID: _____Date Analyzed: 01/05/22 11:37 Lab File ID: Q0105220000007.D GC Column: MR-2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chlordane (technical) Peak 3	7.17	Split Peak	eppinged	01/05/22 12:06

PESTICIDES MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CHGC15 Analysis Batch Number: 384283

Lab Sample ID: IC 180-384283/8 Client Sample ID: _____

Date Analyzed: 01/05/22 11:52 Lab File ID: Q0105220000008.D GC Column: MR-2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chlordane (technical) Peak 3	7.17	Split Peak	eppinged	01/05/22 12:12

Lab Sample ID: IC 180-384283/9 Client Sample ID: _____

Date Analyzed: 01/05/22 12:08 Lab File ID: Q0105220000009.D GC Column: MR-2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chlordane (technical) Peak 3	7.17	Split Peak	eppinged	01/05/22 12:23

Lab Sample ID: IC 180-384283/11 Client Sample ID: _____

Date Analyzed: 01/05/22 12:39 Lab File ID: Q0105220000011.D GC Column: MR-1 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chlordane (technical)		Unspecified		
Chlordane (technical) Peak 1	5.95	Peak assignment corrected	eppinged	01/05/22 12:57
Chlordane (technical) Peak 3	6.84	Peak assignment corrected	eppinged	01/05/22 12:57
Chlordane (technical) Peak 4	6.91	Peak assignment corrected	eppinged	01/05/22 12:57

Lab Sample ID: IC 180-384283/11 Client Sample ID: _____

Date Analyzed: 01/05/22 12:39 Lab File ID: Q0105220000011.D GC Column: MR-2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chlordane (technical) Peak 3	7.17	Split Peak	eppinged	01/05/22 12:57

PESTICIDES MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CHGC15 Analysis Batch Number: 384383

Lab Sample ID: IC 180-384383/8 Client Sample ID: _____

Date Analyzed: 01/06/22 10:44 Lab File ID: Q0106220000008.D GC Column: MR-1 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
alpha-BHC	5.21	Peak assignment corrected	eppinged	01/06/22 10:59
gamma-BHC (Lindane)	5.48	Peak assignment corrected	eppinged	01/06/22 10:59
beta-BHC	5.65	Peak assignment corrected	eppinged	01/06/22 10:59
delta-BHC	5.85	Peak assignment corrected	eppinged	01/06/22 10:59
Heptachlor	5.94	Peak assignment corrected	eppinged	01/06/22 10:59
Aldrin	6.23	Peak assignment corrected	eppinged	01/06/22 11:00
Heptachlor epoxide	6.59	Peak assignment corrected	eppinged	01/06/22 11:00
trans-Chlordane	6.81	Peak assignment corrected	eppinged	01/06/22 11:00
cis-Chlordane	6.88	Peak assignment corrected	eppinged	01/06/22 11:00
Endosulfan I	6.93	Peak assignment corrected	eppinged	01/06/22 11:00
Dieldrin	7.17	Peak assignment corrected	eppinged	01/06/22 11:01
Endosulfan II	7.58	Peak assignment corrected	eppinged	01/06/22 11:01
Endrin aldehyde	7.70	Peak assignment corrected	eppinged	01/06/22 11:02
Endosulfan sulfate	7.91	Peak assignment corrected	eppinged	01/06/22 11:02
Methoxychlor	8.24	Peak assignment corrected	eppinged	01/06/22 11:01

PESTICIDES MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CHGC15 Analysis Batch Number: 384383

Lab Sample ID: IC 180-384383/8 Client Sample ID: _____

Date Analyzed: 01/06/22 10:44 Lab File ID: Q0106220000008.D GC Column: MR-2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
alpha-BHC	5.61	Peak assignment corrected	eppinged	01/06/22 10:59
gamma-BHC (Lindane)	5.91	Peak assignment corrected	eppinged	01/06/22 10:59
beta-BHC	6.15	Peak assignment corrected	eppinged	01/06/22 10:59
Heptachlor	6.24	Peak assignment corrected	eppinged	01/06/22 10:59
delta-BHC	6.38	Peak assignment corrected	eppinged	01/06/22 10:59
Aldrin	6.51	Peak assignment corrected	eppinged	01/06/22 11:00
Heptachlor epoxide	6.96	Peak assignment corrected	eppinged	01/06/22 11:00
trans-Chlordane	7.19	Peak assignment corrected	eppinged	01/06/22 11:00
cis-Chlordane	7.24	Peak assignment corrected	eppinged	01/06/22 11:00
Endosulfan I	7.31	Peak assignment corrected	eppinged	01/06/22 11:00
Dieldrin	7.56	Peak assignment corrected	eppinged	01/06/22 11:01
Endosulfan II	8.09	Peak assignment corrected	eppinged	01/06/22 11:01
Endrin aldehyde	8.26	Peak assignment corrected	eppinged	01/06/22 11:02
Endosulfan sulfate	8.50	Peak assignment corrected	eppinged	01/06/22 11:02
Methoxychlor	8.74	Peak assignment corrected	eppinged	01/06/22 11:01

PESTICIDES MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CHGC15 Analysis Batch Number: 385331

Lab Sample ID: CCV 180-385331/2 Client Sample ID: _____

Date Analyzed: 01/17/22 09:19 Lab File ID: Q0117220000002.D GC Column: MR-1 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene		Unspecified		
Toxaphene Peak 1	7.08	Baseline Smoothing	eppinged	01/17/22 09:34
Toxaphene Peak 2	7.35	Baseline Smoothing	eppinged	01/17/22 09:34
Toxaphene Peak 3	7.81	Baseline Smoothing	eppinged	01/17/22 09:34
Toxaphene Peak 4	7.89	Baseline Smoothing	eppinged	01/17/22 09:34

Lab Sample ID: CCV 180-385331/2 Client Sample ID: _____

Date Analyzed: 01/17/22 09:19 Lab File ID: Q0117220000002.D GC Column: MR-2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene		Unspecified		
Toxaphene Peak 1	7.46	Baseline Smoothing	eppinged	01/17/22 09:34
Toxaphene Peak 2	7.51	Baseline Smoothing	eppinged	01/17/22 09:34
Toxaphene Peak 3	8.25	Baseline Smoothing	eppinged	01/17/22 09:34
Toxaphene Peak 4	8.75	Baseline Smoothing	eppinged	01/17/22 09:34

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CHGC20 Analysis Batch Number: 357315Lab Sample ID: IC 180-357315/5 Client Sample ID: _____Date Analyzed: 05/18/21 09:27 Lab File ID: 05180005.D GC Column: RTX-CLP1 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260		Unspecified		
PCB-1016 Peak 2	3.98	Instrument noise	oravecj	05/19/21 09:42
PCB-1260 Peak 1	7.05	Instrument noise	oravecj	05/19/21 09:39
PCB-1260 Peak 3	8.13	Instrument noise	oravecj	05/19/21 09:39
PCB-1260 Peak 5	9.82	Instrument noise	oravecj	05/19/21 09:40

Lab Sample ID: IC 180-357315/5 Client Sample ID: _____Date Analyzed: 05/18/21 09:27 Lab File ID: 05180005.D GC Column: RTX-CLP2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260		Unspecified		
PCB-1016 Peak 3	5.71	Instrument noise	oravecj	05/19/21 09:38
PCB-1016 Peak 4	6.47	Instrument noise	oravecj	05/19/21 09:38
PCB-1260 Peak 1	9.28	Instrument noise	oravecj	05/19/21 09:41
PCB-1260 Peak 2	9.89	Instrument noise	oravecj	05/19/21 09:41
PCB-1260 Peak 5	11.40	Instrument noise	oravecj	05/19/21 09:41

Lab Sample ID: IC 180-357315/6 Client Sample ID: _____Date Analyzed: 05/18/21 09:45 Lab File ID: 05180006.D GC Column: RTX-CLP1 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 2	3.98	Instrument noise	oravecj	05/19/21 09:42

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CHGC20 Analysis Batch Number: 357315Lab Sample ID: IC 180-357315/11 Client Sample ID: _____Date Analyzed: 05/18/21 11:20 Lab File ID: 05180011.D GC Column: RTX-CLP1 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260		Unspecified		
PCB-1260 Peak 1	7.05	Instrument noise	oravecj	05/19/21 09:44
PCB-1260 Peak 2	7.57	Instrument noise	oravecj	05/19/21 09:44
PCB-1260 Peak 3	8.13	Instrument noise	oravecj	05/19/21 09:44
PCB-1260 Peak 4	9.36	Instrument noise	oravecj	05/19/21 09:44

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CHGC20 Analysis Batch Number: 384861Lab Sample ID: MB 180-384682/1-C Client Sample ID: _____Date Analyzed: 01/12/22 18:30 Lab File ID: 01120045.D GC Column: RTX-CLP1 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242		Unspecified		
PCB-1260		Unspecified		
PCB-1242 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:30
PCB-1242 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:30
PCB-1242 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:30
PCB-1242 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:30
PCB-1242 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:30
PCB-1260 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:30
PCB-1260 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:30
PCB-1260 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:30
PCB-1260 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:30
PCB-1260 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:30

Lab Sample ID: MB 180-384682/1-C Client Sample ID: _____Date Analyzed: 01/12/22 18:30 Lab File ID: 01120045.D GC Column: RTX-CLP2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242		Unspecified		
PCB-1260		Unspecified		
PCB-1242 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:30
PCB-1242 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:30
PCB-1242 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:30
PCB-1242 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:30
PCB-1242 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:30
PCB-1260 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:30
PCB-1260 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:30
PCB-1260 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:30
PCB-1260 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:30
PCB-1260 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:30

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CHGC20 Analysis Batch Number: 384861Lab Sample ID: 180-132081-4 Client Sample ID: T1-WC-B-FL-D-2201051520-0-12Date Analyzed: 01/12/22 19:26 Lab File ID: 01120048.D GC Column: RTX-CLP1 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016		Unspecified		
PCB-1221		Unspecified		
PCB-1232		Unspecified		
PCB-1242		Unspecified		
PCB-1248		Unspecified		
PCB-1260		Unspecified		
PCB-1016 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1016 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1016 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1016 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1016 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1221 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1221 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1221 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1260 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CHGC20 Analysis Batch Number: 384861Lab Sample ID: 180-132081-4 Client Sample ID: T1-WC-B-FL-D-2201051520-0-12Date Analyzed: 01/12/22 19:26 Lab File ID: 01120048.D GC Column: RTX-CLP1 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1260 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1260 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1260 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CHGC20 Analysis Batch Number: 384861Lab Sample ID: 180-132081-4 Client Sample ID: T1-WC-B-FL-D-2201051520-0-12Date Analyzed: 01/12/22 19:26 Lab File ID: 01120048.D GC Column: RTX-CLP2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016		Unspecified		
PCB-1221		Unspecified		
PCB-1232		Unspecified		
PCB-1242		Unspecified		
PCB-1248		Unspecified		
PCB-1260		Unspecified		
PCB-1016 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1016 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1016 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1016 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1016 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1221 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1221 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1221 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1260 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CHGC20 Analysis Batch Number: 384861Lab Sample ID: 180-132081-4 Client Sample ID: T1-WC-B-FL-D-2201051520-0-12Date Analyzed: 01/12/22 19:26 Lab File ID: 01120048.D GC Column: RTX-CLP2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1260 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1260 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1260 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CHGC20 Analysis Batch Number: 384861Lab Sample ID: 180-132081-4 MS Client Sample ID: T1-WC-B-FL-D-2201051520-0-12 MSDate Analyzed: 01/12/22 19:45 Lab File ID: 01120049.D GC Column: RTX-CLP1 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1221		Unspecified		
PCB-1232		Unspecified		
PCB-1242		Unspecified		
PCB-1248		Unspecified		
PCB-1254		Unspecified		
PCB-1221 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1221 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1221 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1254 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1254 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1254 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1254 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1254 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CHGC20 Analysis Batch Number: 384861Lab Sample ID: 180-132081-4 MS Client Sample ID: T1-WC-B-FL-D-2201051520-0-12 MSDate Analyzed: 01/12/22 19:45 Lab File ID: 01120049.D GC Column: RTX-CLP2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1221		Unspecified		
PCB-1232		Unspecified		
PCB-1242		Unspecified		
PCB-1248		Unspecified		
PCB-1254		Unspecified		
PCB-1221 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1221 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1221 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1254 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1254 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1254 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1254 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1254 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-205 (IS)	12.14	Invalid Compound ID	oravecj	01/13/22 07:31

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CHGC20 Analysis Batch Number: 384861Lab Sample ID: 180-132081-4 MSD Client Sample ID: T1-WC-B-FL-D-2201051520-0-12 MSDDate Analyzed: 01/12/22 20:04 Lab File ID: 01120050.D GC Column: RTX-CLP1 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1221		Unspecified		
PCB-1232		Unspecified		
PCB-1242		Unspecified		
PCB-1248		Unspecified		
PCB-1254		Unspecified		
PCB-1221 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1221 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1221 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1254 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1254 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1254 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1254 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1254 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CHGC20 Analysis Batch Number: 384861Lab Sample ID: 180-132081-4 MSD Client Sample ID: T1-WC-B-FL-D-2201051520-0-12 MSDDate Analyzed: 01/12/22 20:04 Lab File ID: 01120050.D GC Column: RTX-CLP2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1221		Unspecified		
PCB-1232		Unspecified		
PCB-1242		Unspecified		
PCB-1248		Unspecified		
PCB-1254		Unspecified		
PCB-1221 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1221 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1221 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1254 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1254 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1254 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1254 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1254 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CHGC20 Analysis Batch Number: 384861Lab Sample ID: 180-132081-3 Client Sample ID: T1-WC-B-FL-D-2201051234-0-12Date Analyzed: 01/12/22 20:23 Lab File ID: 01120051.D GC Column: RTX-CLP1 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016		Unspecified		
PCB-1221		Unspecified		
PCB-1232		Unspecified		
PCB-1242		Unspecified		
PCB-1248		Unspecified		
PCB-1260		Unspecified		
PCB-1016 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1016 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1016 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1016 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1016 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1221 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1221 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1221 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:32
PCB-1248 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:32
PCB-1248 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:32
PCB-1248 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:32
PCB-1248 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:32
PCB-1260 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CHGC20 Analysis Batch Number: 384861Lab Sample ID: 180-132081-3 Client Sample ID: T1-WC-B-FL-D-2201051234-0-12Date Analyzed: 01/12/22 20:23 Lab File ID: 01120051.D GC Column: RTX-CLP1 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1260 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1260 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1260 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CHGC20 Analysis Batch Number: 384861Lab Sample ID: 180-132081-3 Client Sample ID: T1-WC-B-FL-D-2201051234-0-12Date Analyzed: 01/12/22 20:23 Lab File ID: 01120051.D GC Column: RTX-CLP2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016		Unspecified		
PCB-1221		Unspecified		
PCB-1232		Unspecified		
PCB-1242		Unspecified		
PCB-1248		Unspecified		
PCB-1260		Unspecified		
PCB-1016 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1016 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1016 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1016 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1016 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1221 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1221 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1221 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1232 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1242 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1248 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:32
PCB-1248 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:32
PCB-1248 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:32
PCB-1248 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:32
PCB-1248 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:32
PCB-1260 Peak 1		Invalid Compound ID	oravecj	01/13/22 07:31

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CHGC20 Analysis Batch Number: 384861Lab Sample ID: 180-132081-3 Client Sample ID: T1-WC-B-FL-D-2201051234-0-12Date Analyzed: 01/12/22 20:23 Lab File ID: 01120051.D GC Column: RTX-CLP2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 2		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1260 Peak 3		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1260 Peak 4		Invalid Compound ID	oravecj	01/13/22 07:31
PCB-1260 Peak 5		Invalid Compound ID	oravecj	01/13/22 07:31

HERBICIDES MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CGC1 Analysis Batch Number: 359437Lab Sample ID: IC 180-359437/1 Client Sample ID: _____Date Analyzed: 06/04/21 07:41 Lab File ID: 0604210000005.D GC Column: RTX-50 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-D	9.43	Split Peak	oravecj	06/04/21 10:03

Lab Sample ID: IC 180-359437/1 Client Sample ID: _____Date Analyzed: 06/04/21 07:41 Lab File ID: 0604210000005.D GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dichlorophenylacetic acid (Surr)	8.08	Split Peak	oravecj	06/04/21 10:02
2,4-DB	11.23	Split Peak	oravecj	06/04/21 10:03

Lab Sample ID: IC 180-359437/3 Client Sample ID: _____Date Analyzed: 06/04/21 08:20 Lab File ID: 0604210000007.D GC Column: RTX-50 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dichlorophenylacetic acid (Surr)	8.02	Split Peak	oravecj	06/04/21 10:03

Lab Sample ID: IC 180-359437/6 Client Sample ID: _____Date Analyzed: 06/04/21 09:19 Lab File ID: 0604210000010.D GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Silvex (2,4,5-TP)	10.35	Split Peak	oravecj	06/04/21 10:06

HERBICIDES MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CGC1 Analysis Batch Number: 359437Lab Sample ID: IC 180-359437/7 Client Sample ID: _____Date Analyzed: 06/04/21 09:39 Lab File ID: 0604210000011.D GC Column: RTX-50 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Silvex (2,4,5-TP)	10.11	Split Peak	oravecj	06/04/21 10:05

HERBICIDES MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Instrument ID: CGC1 Analysis Batch Number: 385491Lab Sample ID: MB 180-385097/1-A Client Sample ID: _____Date Analyzed: 01/19/22 05:42 Lab File ID: 0119220000003.D GC Column: RTX-50 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Silvex (2,4,5-TP)		Invalid Compound ID	oravecj	01/19/22 07:36

Lab Sample ID: MB 180-385097/1-A Client Sample ID: _____Date Analyzed: 01/19/22 05:42 Lab File ID: 0119220000003.D GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Silvex (2,4,5-TP)		Invalid Compound ID	oravecj	01/19/22 07:36

Lab Sample ID: 180-132081-1 Client Sample ID: T1-WC-B-FL-D-2201051234-0-12Date Analyzed: 01/19/22 07:00 Lab File ID: 0119220000007.D GC Column: RTX-50 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Silvex (2,4,5-TP)		Invalid Compound ID	oravecj	01/19/22 07:36

Lab Sample ID: 180-132081-1 Client Sample ID: T1-WC-B-FL-D-2201051234-0-12Date Analyzed: 01/19/22 07:00 Lab File ID: 0119220000007.D GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Silvex (2,4,5-TP)		Invalid Compound ID	oravecj	01/19/22 07:36

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
20 PPM NH3 P_00258	02/12/22	01/15/22	DI Water, Lot N/A	50 mL	WNH31000P_00031	1 mL	Ammonia, distilled	20 mg/L
.WNH31000P_00031	03/19/23		Lab Chem, Lot L078-13		(Purchased Reagent)		Ammonia, distilled	1000 mg/L
20 PPM NH3 S_00256	02/12/22	01/15/22	DI Water, Lot N/A	50 mL	WNH31000S_00021	1 mL	Ammonia, distilled	20 mg/L
.WNH31000S_00021	03/03/22		Lab Chem Inc., Lot K058-18		(Purchased Reagent)		Ammonia, distilled	1000 mg/L
8260Internal_00001	02/11/22	01/11/22	Methanol, Lot 4292562	10 mL	VOA8260INTRES_00193	1 mL	1,4-Dichlorobenzene-d4	25 ug/mL
							Chlorobenzene-d5	25 ug/mL
							Fluorobenzene (IS)	25 ug/mL
							TBA-d9 (IS)	500 ug/mL
.VOA8260INTRES_00193	05/31/26		Restek, Lot A0172729		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL
GCAR1248CALL4_00025	08/18/21	02/18/21	Hexane, Lot 3878999	100 mL	GCPCBI1248STD_00011	0.05 mL	PCB-1248 Peak 1	0.5 ug/mL
							PCB-1248 Peak 2	0.5 ug/mL
							PCB-1248 Peak 3	0.5 ug/mL
							PCB-1248 Peak 4	0.5 ug/mL
							PCB-1248 Peak 5	0.5 ug/mL
.GCPCBI1248STD_00011	01/30/25		RESTEK, Lot A0142661		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
GCAR1248CALL4_00026	02/18/22	08/19/21	Hexane, Lot 3878999	100 mL	GCPCBI1248STD_00011	0.05 mL	PCB-1248	0.5 ug/mL
.GCPCBI1248STD_00011	01/30/25		RESTEK, Lot A0142661		(Purchased Reagent)		PCB-1248	1000 ug/mL
GCAR1660CALL1_00030	08/18/21	02/18/21	HEXANE, Lot 3878999	100 mL	GC1660WORKS_00023	0.01 mL	PCB-1016 Peak 1	0.01 ug/mL
							PCB-1016 Peak 2	0.01 ug/mL
							PCB-1016 Peak 3	0.01 ug/mL
							PCB-1016 Peak 4	0.01 ug/mL
							PCB-1016 Peak 5	0.01 ug/mL
							PCB-1260 Peak 1	0.01 ug/mL
							PCB-1260 Peak 2	0.01 ug/mL
							PCB-1260 Peak 3	0.01 ug/mL
							PCB-1260 Peak 4	0.01 ug/mL
							PCB-1260 Peak 5	0.01 ug/mL
							DCB Decachlorobiphenyl (Surr)	0.0005 ug/mL
							Tetrachloro-m-xylene (Surr)	0.0005 ug/mL
.GC1660WORKS_00023	02/18/22	02/18/21	Hexane, Lot 3878999	40 mL	GCPCBI1660STD_00019	4 mL	PCB-1016 Peak 1	100 ug/mL
							PCB-1016 Peak 2	100 ug/mL
							PCB-1016 Peak 3	100 ug/mL
							PCB-1016 Peak 4	100 ug/mL
							PCB-1016 Peak 5	100 ug/mL
							PCB-1260 Peak 1	100 ug/mL
							PCB-1260 Peak 2	100 ug/mL
							PCB-1260 Peak 3	100 ug/mL
							PCB-1260 Peak 4	100 ug/mL
							PCB-1260 Peak 5	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration							
					Reagent ID	Volume Added									
					GCPEST(SURR)S_00010	1 mL	DCB Decachlorobiphenyl (Surr)	5 ug/mL							
							Tetrachloro-m-xylene (Surr)	5 ug/mL							
..GCPCBI1660STD_00019	10/31/25	RESTEK, Lot A0150739			(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL							
							PCB-1016 Peak 2	1000 ug/mL							
							PCB-1016 Peak 3	1000 ug/mL							
							PCB-1016 Peak 4	1000 ug/mL							
							PCB-1016 Peak 5	1000 ug/mL							
							PCB-1260 Peak 1	1000 ug/mL							
							PCB-1260 Peak 2	1000 ug/mL							
							PCB-1260 Peak 3	1000 ug/mL							
							PCB-1260 Peak 4	1000 ug/mL							
							PCB-1260 Peak 5	1000 ug/mL							
..GCPEST(SURR)S_00010	11/30/24	RESTEK, Lot A0141110			(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL							
							Tetrachloro-m-xylene (Surr)	200 ug/mL							
GCAR1660CALL2_00022	08/18/21	02/18/21	HEXANE, Lot 3878999	100 mL	GC1660WORKS_00023	0.1 mL	PCB-1016 Peak 1	0.1 ug/mL							
							PCB-1016 Peak 2	0.1 ug/mL							
							PCB-1016 Peak 3	0.1 ug/mL							
							PCB-1016 Peak 4	0.1 ug/mL							
							PCB-1016 Peak 5	0.1 ug/mL							
							PCB-1260 Peak 1	0.1 ug/mL							
							PCB-1260 Peak 2	0.1 ug/mL							
							PCB-1260 Peak 3	0.1 ug/mL							
							PCB-1260 Peak 4	0.1 ug/mL							
							PCB-1260 Peak 5	0.1 ug/mL							
							DCB Decachlorobiphenyl (Surr)	0.005 ug/mL							
							Tetrachloro-m-xylene (Surr)	0.005 ug/mL							
							.GC1660WORKS_00023	02/18/22	02/18/21	Hexane, Lot 3878999	40 mL	GCPCBI1660STD_00019	4 mL	PCB-1016 Peak 1	100 ug/mL
														PCB-1016 Peak 2	100 ug/mL
PCB-1016 Peak 3	100 ug/mL														
PCB-1016 Peak 4	100 ug/mL														
PCB-1016 Peak 5	100 ug/mL														
PCB-1260 Peak 1	100 ug/mL														
PCB-1260 Peak 2	100 ug/mL														
PCB-1260 Peak 3	100 ug/mL														
PCB-1260 Peak 4	100 ug/mL														
PCB-1260 Peak 5	100 ug/mL														
GCPEST(SURR)S_00010	1 mL	DCB Decachlorobiphenyl (Surr)	5 ug/mL												
		Tetrachloro-m-xylene (Surr)	5 ug/mL												
		..GCPCBI1660STD_00019	10/31/25	RESTEK, Lot A0150739								(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
														PCB-1016 Peak 2	1000 ug/mL
PCB-1016 Peak 3	1000 ug/mL														
PCB-1016 Peak 4	1000 ug/mL														
PCB-1016 Peak 5	1000 ug/mL														
PCB-1260 Peak 1	1000 ug/mL														
PCB-1260 Peak 2	1000 ug/mL														
PCB-1260 Peak 3	1000 ug/mL														
PCB-1260 Peak 4	1000 ug/mL														

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..GCPEST(SURR)S_00010	11/30/24		RESTEK, Lot A0141110		(Purchased Reagent)		PCB-1260 Peak 5	1000 ug/mL
							DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene (Surr)	200 ug/mL
GCAR1660CALL3_00021	08/18/21	02/18/21	HEXANE, Lot 3878999	100 mL	GC1660WORKS_00023	0.25 mL	PCB-1016 Peak 1	0.25 ug/mL
							PCB-1016 Peak 2	0.25 ug/mL
							PCB-1016 Peak 3	0.25 ug/mL
							PCB-1016 Peak 4	0.25 ug/mL
							PCB-1016 Peak 5	0.25 ug/mL
							PCB-1260 Peak 1	0.25 ug/mL
							PCB-1260 Peak 2	0.25 ug/mL
							PCB-1260 Peak 3	0.25 ug/mL
							PCB-1260 Peak 4	0.25 ug/mL
							PCB-1260 Peak 5	0.25 ug/mL
							DCB Decachlorobiphenyl (Surr)	0.0125 ug/mL
							Tetrachloro-m-xylene (Surr)	0.0125 ug/mL
.GC1660WORKS_00023	02/18/22	02/18/21	Hexane, Lot 3878999	40 mL	GCPCBI1660STD_00019	4 mL	PCB-1016 Peak 1	100 ug/mL
							PCB-1016 Peak 2	100 ug/mL
							PCB-1016 Peak 3	100 ug/mL
							PCB-1016 Peak 4	100 ug/mL
							PCB-1016 Peak 5	100 ug/mL
							PCB-1260 Peak 1	100 ug/mL
							PCB-1260 Peak 2	100 ug/mL
							PCB-1260 Peak 3	100 ug/mL
							PCB-1260 Peak 4	100 ug/mL
							PCB-1260 Peak 5	100 ug/mL
					GCPEST(SURR)S_00010	1 mL	DCB Decachlorobiphenyl (Surr)	5 ug/mL
							Tetrachloro-m-xylene (Surr)	5 ug/mL
..GCPCBI1660STD_00019	10/31/25		RESTEK, Lot A0150739		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
..GCPEST(SURR)S_00010	11/30/24		RESTEK, Lot A0141110		(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene (Surr)	200 ug/mL
GCAR1660CALL4_00023	08/18/21	02/18/21	HEXANE, Lot 3878999	200 mL	GC1660WORKS_00023	1 mL	PCB-1016 Peak 1	0.5 ug/mL
							PCB-1016 Peak 2	0.5 ug/mL
							PCB-1016 Peak 3	0.5 ug/mL
							PCB-1016 Peak 4	0.5 ug/mL
							PCB-1016 Peak 5	0.5 ug/mL
							PCB-1260 Peak 1	0.5 ug/mL
							PCB-1260 Peak 2	0.5 ug/mL
							PCB-1260 Peak 3	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1260 Peak 4	0.5 ug/mL
							PCB-1260 Peak 5	0.5 ug/mL
							DCB Decachlorobiphenyl (Surr)	0.025 ug/mL
							Tetrachloro-m-xylene (Surr)	0.025 ug/mL
.GC1660WORKS_00023	02/18/22	02/18/21	Hexane, Lot 3878999	40 mL	GCPCBI1660STD_00019	4 mL	PCB-1016 Peak 1	100 ug/mL
							PCB-1016 Peak 2	100 ug/mL
							PCB-1016 Peak 3	100 ug/mL
							PCB-1016 Peak 4	100 ug/mL
							PCB-1016 Peak 5	100 ug/mL
							PCB-1260 Peak 1	100 ug/mL
							PCB-1260 Peak 2	100 ug/mL
							PCB-1260 Peak 3	100 ug/mL
							PCB-1260 Peak 4	100 ug/mL
							PCB-1260 Peak 5	100 ug/mL
					GCPEST(SURR)S_00010	1 mL	DCB Decachlorobiphenyl (Surr)	5 ug/mL
							Tetrachloro-m-xylene (Surr)	5 ug/mL
..GCPCBI1660STD_00019	10/31/25	RESTEK, Lot A0150739			(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
..GCPEST(SURR)S_00010	11/30/24	RESTEK, Lot A0141110			(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene (Surr)	200 ug/mL
GCAR1660CALL5_00022	08/18/21	02/18/21	HEXANE, Lot 3878999	200 mL	GC1660WORKS_00023	2 mL	PCB-1016 Peak 1	1 ug/mL
							PCB-1016 Peak 2	1 ug/mL
							PCB-1016 Peak 3	1 ug/mL
							PCB-1016 Peak 4	1 ug/mL
							PCB-1016 Peak 5	1 ug/mL
							PCB-1260 Peak 1	1 ug/mL
							PCB-1260 Peak 2	1 ug/mL
							PCB-1260 Peak 3	1 ug/mL
							PCB-1260 Peak 4	1 ug/mL
							PCB-1260 Peak 5	1 ug/mL
							DCB Decachlorobiphenyl (Surr)	0.05 ug/mL
							Tetrachloro-m-xylene (Surr)	0.05 ug/mL
.GC1660WORKS_00023	02/18/22	02/18/21	Hexane, Lot 3878999	40 mL	GCPCBI1660STD_00019	4 mL	PCB-1016 Peak 1	100 ug/mL
							PCB-1016 Peak 2	100 ug/mL
							PCB-1016 Peak 3	100 ug/mL
							PCB-1016 Peak 4	100 ug/mL
							PCB-1016 Peak 5	100 ug/mL
							PCB-1260 Peak 1	100 ug/mL
							PCB-1260 Peak 2	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1260 Peak 3	100 ug/mL
							PCB-1260 Peak 4	100 ug/mL
							PCB-1260 Peak 5	100 ug/mL
					GCPEST(SURR)S_00010	1 mL	DCB Decachlorobiphenyl (Surr)	5 ug/mL
							Tetrachloro-m-xylene (Surr)	5 ug/mL
..GCPCBI1660STD_00019	10/31/25		RESTEK, Lot A0150739		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
..GCPEST(SURR)S_00010	11/30/24		RESTEK, Lot A0141110		(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene (Surr)	200 ug/mL
GCAR1660CALL5_00023	02/18/22	08/19/21	HEXANE, Lot 3878999	200 mL	GC1660WORKS_00023	2 mL	PCB-1016	1 ug/mL
							PCB-1260	1 ug/mL
							DCB Decachlorobiphenyl (Surr)	0.05 ug/mL
							Tetrachloro-m-xylene (Surr)	0.05 ug/mL
.GC1660WORKS_00023	02/18/22	02/18/21	Hexane, Lot 3878999	40 mL	GCPCBI1660STD_00019	4 mL	PCB-1016	100 ug/mL
							PCB-1260	100 ug/mL
					GCPEST(SURR)S_00010	1 mL	DCB Decachlorobiphenyl (Surr)	5 ug/mL
							Tetrachloro-m-xylene (Surr)	5 ug/mL
..GCPCBI1660STD_00019	10/31/25		RESTEK, Lot A0150739		(Purchased Reagent)		PCB-1016	1000 ug/mL
							PCB-1260	1000 ug/mL
..GCPEST(SURR)S_00010	11/30/24		RESTEK, Lot A0141110		(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene (Surr)	200 ug/mL
GCAR1660CALL6_00020	08/18/21	02/18/21	HEXANE, Lot 3878999	100 mL	GC1660WORKS_00023	2 mL	PCB-1016 Peak 1	2 ug/mL
							PCB-1016 Peak 2	2 ug/mL
							PCB-1016 Peak 3	2 ug/mL
							PCB-1016 Peak 4	2 ug/mL
							PCB-1016 Peak 5	2 ug/mL
							PCB-1260 Peak 1	2 ug/mL
							PCB-1260 Peak 2	2 ug/mL
							PCB-1260 Peak 3	2 ug/mL
							PCB-1260 Peak 4	2 ug/mL
							PCB-1260 Peak 5	2 ug/mL
							DCB Decachlorobiphenyl (Surr)	0.1 ug/mL
							Tetrachloro-m-xylene (Surr)	0.1 ug/mL
.GC1660WORKS_00023	02/18/22	02/18/21	Hexane, Lot 3878999	40 mL	GCPCBI1660STD_00019	4 mL	PCB-1016 Peak 1	100 ug/mL
							PCB-1016 Peak 2	100 ug/mL
							PCB-1016 Peak 3	100 ug/mL
							PCB-1016 Peak 4	100 ug/mL
							PCB-1016 Peak 5	100 ug/mL
							PCB-1260 Peak 1	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1260 Peak 2	100 ug/mL
							PCB-1260 Peak 3	100 ug/mL
							PCB-1260 Peak 4	100 ug/mL
							PCB-1260 Peak 5	100 ug/mL
					GCPEST(SURR)S_00010	1 mL	DCB Decachlorobiphenyl (Surr)	5 ug/mL
							Tetrachloro-m-xylene (Surr)	5 ug/mL
..GCPCBI1660STD_00019	10/31/25		RESTEK, Lot A0150739		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
..GCPEST(SURR)S_00010	11/30/24		RESTEK, Lot A0141110		(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene (Surr)	200 ug/mL
GCAR1660CALL7_00021	08/18/21	02/18/21	HEXANE, Lot 3878999	100 mL	GC1660WORKS_00023	4 mL	PCB-1016 Peak 1	4 ug/mL
							PCB-1016 Peak 2	4 ug/mL
							PCB-1016 Peak 3	4 ug/mL
							PCB-1016 Peak 4	4 ug/mL
							PCB-1016 Peak 5	4 ug/mL
							PCB-1260 Peak 1	4 ug/mL
							PCB-1260 Peak 2	4 ug/mL
							PCB-1260 Peak 3	4 ug/mL
							PCB-1260 Peak 4	4 ug/mL
							PCB-1260 Peak 5	4 ug/mL
							DCB Decachlorobiphenyl (Surr)	0.2 ug/mL
							Tetrachloro-m-xylene (Surr)	0.2 ug/mL
.GC1660WORKS_00023	02/18/22	02/18/21	Hexane, Lot 3878999	40 mL	GCPCBI1660STD_00019	4 mL	PCB-1016 Peak 1	100 ug/mL
							PCB-1016 Peak 2	100 ug/mL
							PCB-1016 Peak 3	100 ug/mL
							PCB-1016 Peak 4	100 ug/mL
							PCB-1016 Peak 5	100 ug/mL
							PCB-1260 Peak 1	100 ug/mL
							PCB-1260 Peak 2	100 ug/mL
							PCB-1260 Peak 3	100 ug/mL
							PCB-1260 Peak 4	100 ug/mL
							PCB-1260 Peak 5	100 ug/mL
					GCPEST(SURR)S_00010	1 mL	DCB Decachlorobiphenyl (Surr)	5 ug/mL
							Tetrachloro-m-xylene (Surr)	5 ug/mL
..GCPCBI1660STD_00019	10/31/25		RESTEK, Lot A0150739		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..GCPEST(SURR)S_00010	11/30/24		RESTEK, Lot A0141110		(Purchased Reagent)		PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
GCAR2154CALL4_00024	08/18/21	02/18/21	Hexane, Lot 3878999	100 mL	GCPCB2154 mix_00007	0.05 mL	DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene (Surr)	200 ug/mL
							PCB-1221 Peak 1	0.5 ug/mL
							PCB-1221 Peak 2	0.5 ug/mL
							PCB-1221 Peak 3	0.5 ug/mL
							PCB-1254 Peak 1	0.5 ug/mL
							PCB-1254 Peak 2	0.5 ug/mL
.GCPCB2154 mix_00007	01/31/24		RESTEK, Lot A0131802		(Purchased Reagent)		PCB-1254 Peak 3	0.5 ug/mL
							PCB-1254 Peak 4	0.5 ug/mL
							PCB-1254 Peak 5	0.5 ug/mL
							PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
							PCB-1254 Peak 1	1000 ug/mL
GCAR3262CALL4_00017	08/18/21	02/18/21	Hexane, Lot 3878999	100 mL	GCPCB3262 mix_00005	0.05 mL	PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
							PCB-1232 Peak 1	0.5 ug/mL
							PCB-1232 Peak 2	0.5 ug/mL
							PCB-1232 Peak 3	0.5 ug/mL
.GCPCB3262 mix_00005	01/31/24		RESTEK, Lot A0132023		(Purchased Reagent)		PCB-1232 Peak 4	0.5 ug/mL
							PCB-1232 Peak 5	0.5 ug/mL
							PCB-1262 Peak 1	0.5 ug/mL
							PCB-1262 Peak 2	0.5 ug/mL
							PCB-1262 Peak 3	0.5 ug/mL
							PCB-1262 Peak 4	0.5 ug/mL
							PCB-1262 Peak 5	0.5 ug/mL
GCAR4268CALL4_00017	08/18/21	02/18/21	Hexane, Lot 3878999	100 mL	GCPCB4268 mix_00005	0.05 mL	PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
							PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1242 Peak 1	0.5 ug/mL
							PCB-1242 Peak 2	0.5 ug/mL
							PCB-1242 Peak 3	0.5 ug/mL
							PCB-1242 Peak 4	0.5 ug/mL

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Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1242 Peak 5	0.5 ug/mL
							PCB-1268 Peak 1	0.5 ug/mL
							PCB-1268 Peak 2	0.5 ug/mL
							PCB-1268 Peak 3	0.5 ug/mL
							PCB-1268 Peak 4	0.5 ug/mL
.GCPCB4268 mix_00005	03/31/24		RESTEK, Lot A0133093		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
							PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
GCAR4268CALL4_00018	02/18/22	08/19/21	Hexane, Lot 3878999	100 mL	GCPCB4268 mix_00005	0.05 mL	PCB-1242	0.5 ug/mL
.GCPCB4268 mix_00005	03/31/24		RESTEK, Lot A0133093		(Purchased Reagent)		PCB-1242	1000 ug/mL
GCCHLORLEVEL1_00018	05/31/22	01/05/22	Hexane, Lot 4595066	40 mL	GCCHLORINTSTD_00008	0.004 mL	Chlordane (technical) Peak 1	0.005 ug/mL
							Chlordane (technical) Peak 2	0.005 ug/mL
							Chlordane (technical) Peak 3	0.005 ug/mL
							Chlordane (technical) Peak 4	0.005 ug/mL
.GCCHLORINTSTD_00008	05/31/22	06/03/21	Hexane, Lot 4180122	40 mL	TECHCHLORDANE_00004	400 uL	Chlordane (technical) Peak 1	50 ug/mL
							Chlordane (technical) Peak 2	50 ug/mL
							Chlordane (technical) Peak 3	50 ug/mL
							Chlordane (technical) Peak 4	50 ug/mL
..TECHCHLORDANE_00004	05/31/22		RESTEK, Lot A0137638		(Purchased Reagent)		Chlordane (technical) Peak 1	5000 ug/mL
							Chlordane (technical) Peak 2	5000 ug/mL
							Chlordane (technical) Peak 3	5000 ug/mL
							Chlordane (technical) Peak 4	5000 ug/mL
GCCHLORLEVEL2_00015	05/31/22	01/05/22	Hexane, Lot 4595066	40 mL	GCCHLORINTSTD_00008	0.02 mL	Chlordane (technical) Peak 1	0.025 ug/mL
							Chlordane (technical) Peak 2	0.025 ug/mL
							Chlordane (technical) Peak 3	0.025 ug/mL
							Chlordane (technical) Peak 4	0.025 ug/mL
.GCCHLORINTSTD_00008	05/31/22	06/03/21	Hexane, Lot 4180122	40 mL	TECHCHLORDANE_00004	400 uL	Chlordane (technical) Peak 1	50 ug/mL
							Chlordane (technical) Peak 2	50 ug/mL
							Chlordane (technical) Peak 3	50 ug/mL
							Chlordane (technical) Peak 4	50 ug/mL
..TECHCHLORDANE_00004	05/31/22		RESTEK, Lot A0137638		(Purchased Reagent)		Chlordane (technical) Peak 1	5000 ug/mL
							Chlordane (technical) Peak 2	5000 ug/mL
							Chlordane (technical) Peak 3	5000 ug/mL
							Chlordane (technical) Peak 4	5000 ug/mL
GCCHLORLEVEL3_00030	05/31/22	01/05/22	Hexane, Lot 4595066	40 mL	GCCHLORINTSTD_00008	0.2 mL	Chlordane (technical) Peak 1	0.25 ug/mL
							Chlordane (technical) Peak 2	0.25 ug/mL
							Chlordane (technical) Peak 3	0.25 ug/mL
							Chlordane (technical) Peak 4	0.25 ug/mL
.GCCHLORINTSTD_00008	05/31/22	06/03/21	Hexane, Lot 4180122	40 mL	TECHCHLORDANE_00004	400 uL	Chlordane (technical) Peak 1	50 ug/mL
							Chlordane (technical) Peak 2	50 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlordane (technical) Peak 3	50 ug/mL
							Chlordane (technical) Peak 4	50 ug/mL
..TECHCHLORDANE_00004	05/31/22		RESTEK, Lot A0137638		(Purchased Reagent)		Chlordane (technical) Peak 1	5000 ug/mL
							Chlordane (technical) Peak 2	5000 ug/mL
							Chlordane (technical) Peak 3	5000 ug/mL
							Chlordane (technical) Peak 4	5000 ug/mL
GCCHLORLEVEL3_00030	05/31/22	01/05/22	Hexane, Lot 4595066	40 mL	GCCHLORINTSTD_00008	0.2 mL	Chlordane (technical)	0.25 ug/mL
.GCCHLORINTSTD_00008	05/31/22	06/03/21	Hexane, Lot 4180122	40 mL	TECHCHLORDANE_00004	400 uL	Chlordane (technical)	50 ug/mL
..TECHCHLORDANE_00004	05/31/22		RESTEK, Lot A0137638		(Purchased Reagent)		Chlordane (technical)	5000 ug/mL
GCCHLORLEVEL4_00017	05/31/22	01/05/22	Hexane, Lot 4595066	40 mL	GCCHLORINTSTD_00008	1 mL	Chlordane (technical) Peak 1	1.25 ug/mL
							Chlordane (technical) Peak 2	1.25 ug/mL
							Chlordane (technical) Peak 3	1.25 ug/mL
							Chlordane (technical) Peak 4	1.25 ug/mL
.GCCHLORINTSTD_00008	05/31/22	06/03/21	Hexane, Lot 4180122	40 mL	TECHCHLORDANE_00004	400 uL	Chlordane (technical) Peak 1	50 ug/mL
							Chlordane (technical) Peak 2	50 ug/mL
							Chlordane (technical) Peak 3	50 ug/mL
							Chlordane (technical) Peak 4	50 ug/mL
..TECHCHLORDANE_00004	05/31/22		RESTEK, Lot A0137638		(Purchased Reagent)		Chlordane (technical) Peak 1	5000 ug/mL
							Chlordane (technical) Peak 2	5000 ug/mL
							Chlordane (technical) Peak 3	5000 ug/mL
							Chlordane (technical) Peak 4	5000 ug/mL
GCCHLORLEVEL5_00017	05/31/22	01/05/22	Hexane, Lot 4595066	40 mL	GCCHLORINTSTD_00008	2 mL	Chlordane (technical) Peak 1	2.5 ug/mL
							Chlordane (technical) Peak 2	2.5 ug/mL
							Chlordane (technical) Peak 3	2.5 ug/mL
							Chlordane (technical) Peak 4	2.5 ug/mL
.GCCHLORINTSTD_00008	05/31/22	06/03/21	Hexane, Lot 4180122	40 mL	TECHCHLORDANE_00004	400 uL	Chlordane (technical) Peak 1	50 ug/mL
							Chlordane (technical) Peak 2	50 ug/mL
							Chlordane (technical) Peak 3	50 ug/mL
							Chlordane (technical) Peak 4	50 ug/mL
..TECHCHLORDANE_00004	05/31/22		RESTEK, Lot A0137638		(Purchased Reagent)		Chlordane (technical) Peak 1	5000 ug/mL
							Chlordane (technical) Peak 2	5000 ug/mL
							Chlordane (technical) Peak 3	5000 ug/mL
							Chlordane (technical) Peak 4	5000 ug/mL
GCCHLORLEVEL1_00031	10/31/21	05/13/21	Hexane, Lot 4180122	40 mL	GCCHLORINTSTD_00008	0.125 mL	2,4-Dichlorophenylacetic acid (Surr)	0.02 ug/mL
							2,4,5-T	0.005 ug/mL
							2,4-D	0.02 ug/mL
							2,4-DB	0.02 ug/mL
							Dalapon	0.02 ug/mL
							Dicamba	0.01 ug/mL
							Dichlorprop	0.02 ug/mL
							Dinoseb	0.02 ug/mL
							MCPA	2 ug/mL
							MCPP	2 ug/mL
							Pentachlorophenol	0.005 ug/mL
							Silvex (2,4,5-TP)	0.005 ug/mL

REAGENT TRACEABILITY SUMMARY

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
.GCHERBICALSTK_00023	10/31/21	05/13/21	Hexane, Lot 4180122	10 mL	GCDCAASSTD_00009	0.064 mL	2,4-Dichlorophenylacetic acid (Surr)	1.28 ug/mL		
					GCHERBICALMIX_00019	0.32 mL	2,4,5-T	1.6 ug/mL		
							2,4-D	6.4 ug/mL		
							2,4-DB	6.4 ug/mL		
							Dalapon	6.4 ug/mL		
							Dicamba	3.2 ug/mL		
							Dichlorprop	6.4 ug/mL		
							Dinoseb	6.4 ug/mL		
							MCPA	640 ug/mL		
							MCPP	640 ug/mL		
Pentachlorophenol	1.6 ug/mL									
Silvex (2,4,5-TP)	1.6 ug/mL									
..GCDCAASSTD_00009	04/30/22	RESTEK, Lot A0150937			(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	200 ug/mL		
..GCHERBICALMIX_00019	10/31/21	restek, Lot A0142217			(Purchased Reagent)		2,4,5-T	50 ug/mL		
							2,4-D	200 ug/mL		
							2,4-DB	200 ug/mL		
							Dalapon	200 ug/mL		
							Dicamba	100 ug/mL		
							Dichlorprop	200 ug/mL		
							Dinoseb	200 ug/mL		
							MCPA	20000 ug/mL		
							MCPP	20000 ug/mL		
							Pentachlorophenol	50 ug/mL		
Silvex (2,4,5-TP)	50 ug/mL									
GCHERBCALS12_00027	10/31/21	05/13/21	Hexane, Lot 4180122	40 mL	GCHERBICALSTK_00023	0.25 mL	2,4-Dichlorophenylacetic acid (Surr)	0.04 ug/mL		
							2,4,5-T	0.01 ug/mL		
							2,4-D	0.04 ug/mL		
							2,4-DB	0.04 ug/mL		
							Dalapon	0.04 ug/mL		
							Dicamba	0.02 ug/mL		
							Dichlorprop	0.04 ug/mL		
							Dinoseb	0.04 ug/mL		
							MCPA	4 ug/mL		
							MCPP	4 ug/mL		
Pentachlorophenol	0.01 ug/mL									
Silvex (2,4,5-TP)	0.01 ug/mL									
.GCHERBICALSTK_00023	10/31/21	05/13/21	Hexane, Lot 4180122	10 mL	GCDCAASSTD_00009	0.064 mL	2,4-Dichlorophenylacetic acid (Surr)	1.28 ug/mL		
					GCHERBICALMIX_00019	0.32 mL	2,4,5-T	1.6 ug/mL		
							2,4-D	6.4 ug/mL		
							2,4-DB	6.4 ug/mL		
							Dalapon	6.4 ug/mL		
							Dicamba	3.2 ug/mL		
							Dichlorprop	6.4 ug/mL		
							Dinoseb	6.4 ug/mL		

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MCPA	640 ug/mL
							MCPD	640 ug/mL
							Pentachlorophenol	1.6 ug/mL
							Silvex (2,4,5-TP)	1.6 ug/mL
..GCDCAASSTD_00009	04/30/22		RESTEK, Lot A0150937		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	200 ug/mL
..GCHERBICALMIX_00019	10/31/21		restek, Lot A0142217		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPD	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
GCHERBCALS13_00032	10/31/21	05/13/21	Hexane, Lot 4180122	100 mL	GCHERBICALSTK_00023	1.25 mL	2,4-Dichlorophenylacetic acid (Surr)	0.08 ug/mL
							2,4,5-T	0.02 ug/mL
							2,4-D	0.08 ug/mL
							2,4-DB	0.08 ug/mL
							Dalapon	0.08 ug/mL
							Dicamba	0.04 ug/mL
							Dichlorprop	0.08 ug/mL
							Dinoseb	0.08 ug/mL
							MCPA	8 ug/mL
							MCPD	8 ug/mL
							Pentachlorophenol	0.02 ug/mL
							Silvex (2,4,5-TP)	0.02 ug/mL
.GCHERBICALSTK_00023	10/31/21	05/13/21	Hexane, Lot 4180122	10 mL	GCDCAASSTD_00009	0.064 mL	2,4-Dichlorophenylacetic acid (Surr)	1.28 ug/mL
					GCHERBICALMIX_00019	0.32 mL	2,4,5-T	1.6 ug/mL
							2,4-D	6.4 ug/mL
							2,4-DB	6.4 ug/mL
							Dalapon	6.4 ug/mL
							Dicamba	3.2 ug/mL
							Dichlorprop	6.4 ug/mL
							Dinoseb	6.4 ug/mL
							MCPA	640 ug/mL
							MCPD	640 ug/mL
							Pentachlorophenol	1.6 ug/mL
							Silvex (2,4,5-TP)	1.6 ug/mL
..GCDCAASSTD_00009	04/30/22		RESTEK, Lot A0150937		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	200 ug/mL
..GCHERBICALMIX_00019	10/31/21		restek, Lot A0142217		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL

REAGENT TRACEABILITY SUMMARY

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
GCHERBCALSL3_00035	01/31/22	01/03/22	Hexane, Lot 4180122	100 mL	GCHERBICALSTK_00023	1.25 mL	2,4-Dichlorophenylacetic acid (Surr)	0.08 ug/mL
.GCHERBICALSTK_00023	10/31/21	05/13/21	Hexane, Lot 4180122	10 mL	GCDCAASSTD_00009	0.064 mL	2,4-Dichlorophenylacetic acid (Surr)	1.28 ug/mL
..GCDCAASSTD_00009	04/30/22	RESTEK, Lot A0150937			(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	200 ug/mL
GCHERBCALSL3_00035	01/31/22	01/03/22	Hexane, Lot 4180122	100 mL	GCHERBICALSTK_00023	1.25 mL	2,4-D	0.08 ug/mL
.GCHERBICALSTK_00023	10/31/21	05/13/21	Hexane, Lot 4180122	10 mL	GCHERBICALMIX_00019	0.32 mL	Silvex (2,4,5-TP)	0.02 ug/mL
..GCHERBICALMIX_00019	10/31/21	restek, Lot A0142217			(Purchased Reagent)		2,4-D	6.4 ug/mL
							Silvex (2,4,5-TP)	1.6 ug/mL
							2,4-D	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
GCHERBCALSL4_00032	10/31/21	05/13/21	Hexane, Lot 4180122	40 mL	GCHERBICALSTK_00023	1 mL	2,4-Dichlorophenylacetic acid (Surr)	0.16 ug/mL
							2,4,5-T	0.04 ug/mL
							2,4-D	0.16 ug/mL
							2,4-DB	0.16 ug/mL
							Dalapon	0.16 ug/mL
							Dicamba	0.08 ug/mL
							Dichlorprop	0.16 ug/mL
							Dinoseb	0.16 ug/mL
							MCPA	16 ug/mL
							MCPP	16 ug/mL
							Pentachlorophenol	0.04 ug/mL
							Silvex (2,4,5-TP)	0.04 ug/mL
.GCHERBICALSTK_00023	10/31/21	05/13/21	Hexane, Lot 4180122	10 mL	GCDCAASSTD_00009	0.064 mL	2,4-Dichlorophenylacetic acid (Surr)	1.28 ug/mL
					GCHERBICALMIX_00019	0.32 mL	2,4,5-T	1.6 ug/mL
							2,4-D	6.4 ug/mL
							2,4-DB	6.4 ug/mL
							Dalapon	6.4 ug/mL
							Dicamba	3.2 ug/mL
							Dichlorprop	6.4 ug/mL
							Dinoseb	6.4 ug/mL
							MCPA	640 ug/mL
							MCPP	640 ug/mL
							Pentachlorophenol	1.6 ug/mL
							Silvex (2,4,5-TP)	1.6 ug/mL
..GCDCAASSTD_00009	04/30/22	RESTEK, Lot A0150937			(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	200 ug/mL

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Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..GCHERBICALMIX_00019	10/31/21	restek, Lot A0142217			(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
GCHERBCALS15_00027	10/31/21	05/13/21	Hexane, Lot 4180122	40 mL	GCHERBICALSTK_00023	2 mL	2,4-Dichlorophenylacetic acid (Surr)	0.32 ug/mL
							2,4,5-T	0.08 ug/mL
							2,4-D	0.32 ug/mL
							2,4-DB	0.32 ug/mL
							Dalapon	0.32 ug/mL
							Dicamba	0.16 ug/mL
							Dichlorprop	0.32 ug/mL
							Dinoseb	0.32 ug/mL
							MCPA	32 ug/mL
							MCPP	32 ug/mL
							Pentachlorophenol	0.08 ug/mL
							Silvex (2,4,5-TP)	0.08 ug/mL
.GCHERBICALSTK_00023	10/31/21	05/13/21	Hexane, Lot 4180122	10 mL	GCDCAASSTD_00009	0.064 mL	2,4-Dichlorophenylacetic acid (Surr)	1.28 ug/mL
					GCHERBICALMIX_00019	0.32 mL	2,4,5-T	1.6 ug/mL
							2,4-D	6.4 ug/mL
							2,4-DB	6.4 ug/mL
							Dalapon	6.4 ug/mL
							Dicamba	3.2 ug/mL
							Dichlorprop	6.4 ug/mL
							Dinoseb	6.4 ug/mL
							MCPA	640 ug/mL
							MCPP	640 ug/mL
							Pentachlorophenol	1.6 ug/mL
							Silvex (2,4,5-TP)	1.6 ug/mL
..GCDCAASSTD_00009	04/30/22	RESTEK, Lot A0150937			(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	200 ug/mL
..GCHERBICALMIX_00019	10/31/21	restek, Lot A0142217			(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pentachlorophenol	50 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
GCHERBCALSL6_00015	10/31/21	05/13/21	Hexane, Lot 4180122	20 mL	GCHERBICALSTK_00023	2 mL	2,4-Dichlorophenylacetic acid (Surr)	0.64 ug/mL
							2,4,5-T	0.16 ug/mL
							2,4-D	0.64 ug/mL
							2,4-DB	0.64 ug/mL
							Dalapon	0.64 ug/mL
							Dicamba	0.32 ug/mL
							Dichlorprop	0.64 ug/mL
							Dinoseb	0.64 ug/mL
							MCPA	64 ug/mL
							MCPP	64 ug/mL
							Pentachlorophenol	0.16 ug/mL
							Silvex (2,4,5-TP)	0.16 ug/mL
.GCHERBICALSTK_00023	10/31/21	05/13/21	Hexane, Lot 4180122	10 mL	GCDCAASSTD_00009	0.064 mL	2,4-Dichlorophenylacetic acid (Surr)	1.28 ug/mL
							GCHERBICALMIX_00019	0.32 mL
					2,4-D	6.4 ug/mL		
					2,4-DB	6.4 ug/mL		
					Dalapon	6.4 ug/mL		
					Dicamba	3.2 ug/mL		
					Dichlorprop	6.4 ug/mL		
					Dinoseb	6.4 ug/mL		
					MCPA	640 ug/mL		
					MCPP	640 ug/mL		
					Pentachlorophenol	1.6 ug/mL		
					Silvex (2,4,5-TP)	1.6 ug/mL		
..GCDCAASSTD_00009	04/30/22	RESTEK, Lot A0150937			(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	200 ug/mL
..GCHERBICALMIX_00019	10/31/21	restek, Lot A0142217			(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
							GCHERBCALSL7_00014	10/31/21
2,4,5-T	0.0025 ug/mL							
2,4-D	0.01 ug/mL							
2,4-DB	0.01 ug/mL							
Dalapon	0.01 ug/mL							
Dicamba	0.005 ug/mL							

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration							
					Reagent ID	Volume Added									
							Dichlorprop	0.01 ug/mL							
							Dinoseb	0.01 ug/mL							
							MCPA	1 ug/mL							
							MCPP	1 ug/mL							
							Pentachlorophenol	0.0025 ug/mL							
							Silvex (2,4,5-TP)	0.0025 ug/mL							
.GCHERBICALSTK_00023	10/31/21	05/13/21	Hexane, Lot 4180122	10 mL	GCDCAASSTD_00009	0.064 mL	2,4-Dichlorophenylacetic acid (Surr)	1.28 ug/mL							
					GCHERBICALMIX_00019	0.32 mL	2,4,5-T	1.6 ug/mL							
							2,4-D	6.4 ug/mL							
							2,4-DB	6.4 ug/mL							
							Dalapon	6.4 ug/mL							
							Dicamba	3.2 ug/mL							
							Dichlorprop	6.4 ug/mL							
							Dinoseb	6.4 ug/mL							
							MCPA	640 ug/mL							
							MCPP	640 ug/mL							
							Pentachlorophenol	1.6 ug/mL							
							Silvex (2,4,5-TP)	1.6 ug/mL							
							..GCDCAASSTD_00009			04/30/22	RESTEK, Lot A0150937		(Purchased Reagent)	2,4-Dichlorophenylacetic acid (Surr)	200 ug/mL
							..GCHERBICALMIX_00019	10/31/21	restek, Lot A0142217	(Purchased Reagent)	2,4,5-T	50 ug/mL			
2,4-D	200 ug/mL														
2,4-DB	200 ug/mL														
Dalapon	200 ug/mL														
Dicamba	100 ug/mL														
Dichlorprop	200 ug/mL														
Dinoseb	200 ug/mL														
MCPA	20000 ug/mL														
MCPP	20000 ug/mL														
Pentachlorophenol	50 ug/mL														
Silvex (2,4,5-TP)	50 ug/mL														
GCMATRIXWORKS_00044			06/22/22	12/22/21	ACETONE, Lot 3747124	200 mL					AR1016(10000)_00005	0.8 mL	PCB-1016	40 ug/mL	
											AR1260(10000)_00003	0.8 mL	PCB-1260	40 ug/mL	
.AR1016(10000)_00005			07/31/26	restek, Lot A0174171		(Purchased Reagent)					PCB-1016	10000 ug/mL			
.AR1260(10000)_00003			08/31/26	Restek, Lot A0175178		(Purchased Reagent)	PCB-1260	10000 ug/mL							
GCPest L1_00038	03/03/22	09/10/21	Hexane, Lot 4368221	40 mL	GCCLPSURRSTK_00013	0.008 mL	DCB Decachlorobiphenyl (Surr)	0.001 ug/mL							
					GCPestCAL_00016	0.004 mL	Tetrachloro-m-xylene (Surr)	0.001 ug/mL							
							4,4'-DDD	0.001 ug/mL							
							4,4'-DDE	0.001 ug/mL							
							4,4'-DDT	0.001 ug/mL							
							Aldrin	0.001 ug/mL							
							alpha-BHC	0.001 ug/mL							
							beta-BHC	0.001 ug/mL							
							cis-Chlordane	0.001 ug/mL							
							delta-BHC	0.001 ug/mL							
							Diieldrin	0.001 ug/mL							

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Endosulfan I	0.001 ug/mL
							Endosulfan II	0.001 ug/mL
							Endosulfan sulfate	0.001 ug/mL
							Endrin	0.001 ug/mL
							Endrin aldehyde	0.001 ug/mL
							Endrin ketone	0.001 ug/mL
							gamma-BHC (Lindane)	0.001 ug/mL
							Heptachlor	0.001 ug/mL
							Heptachlor epoxide	0.001 ug/mL
							Methoxychlor	0.001 ug/mL
							trans-Chlordane	0.001 ug/mL
.GCCLPSURRSTK_00013	08/06/22	08/06/21	Hexane, Lot 4368221	20 mL	GCPEST(SURR)S_00010	0.5 mL	DCB Decachlorobiphenyl (Surr)	5 ug/mL
..GCPEST(SURR)S_00010	11/30/24		RESTEK, Lot A0141110		(Purchased Reagent)		Tetrachloro-m-xylene (Surr)	5 ug/mL
							DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene (Surr)	200 ug/mL
.GCPEstCAL_00016	03/03/22	03/03/21	Hexane, Lot 4040129	20 mL	GCPESTAB3STD_00004	0.1 mL	4,4'-DDD	10 ug/mL
							4,4'-DDE	10 ug/mL
							4,4'-DDT	10 ug/mL
							Aldrin	10 ug/mL
							alpha-BHC	10 ug/mL
							beta-BHC	10 ug/mL
							cis-Chlordane	10 ug/mL
							delta-BHC	10 ug/mL
							Dieldrin	10 ug/mL
							Endosulfan I	10 ug/mL
							Endosulfan II	10 ug/mL
							Endosulfan sulfate	10 ug/mL
							Endrin	10 ug/mL
							Endrin aldehyde	10 ug/mL
							Endrin ketone	10 ug/mL
							gamma-BHC (Lindane)	10 ug/mL
							Heptachlor	10 ug/mL
							Heptachlor epoxide	10 ug/mL
							Methoxychlor	10 ug/mL
							trans-Chlordane	10 ug/mL
..GCPESTAB3STD_00004	09/30/22		RESTEK, Lot A0137734		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							beta-BHC	2000 ug/mL
							cis-Chlordane	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
							trans-Chlordane	2000 ug/mL
GCPESTISSPK2_00027	07/31/22	01/03/22	Hexane, Lot 4595066	100 mL	DBC Internal_00004	0.5 mL	Dibutylchloredate ISTD	1 ug/mL
					GCpest/pcbINT_00006	0.1 mL	1-Bromo-2-nitrobenzene	1 ug/mL
.DBC Internal_00004	11/30/22		RESTEK, Lot A0152900		(Purchased Reagent)		Dibutylchloredate ISTD	200 ug/mL
.GCpest/pcbINT_00006	04/30/23		restek, Lot A0157061		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
GCPEstL2_00027	03/03/22	09/10/21	Hexane, Lot 4368221	40 mL	GCCLPSURRSTK_00013	0.04 mL	DCB Decachlorobiphenyl (Surr)	0.005 ug/mL
					GCPEstCAL_00016	0.02 mL	Tetrachloro-m-xylene (Surr)	0.005 ug/mL
							4,4'-DDD	0.005 ug/mL
							4,4'-DDE	0.005 ug/mL
							4,4'-DDT	0.005 ug/mL
							Aldrin	0.005 ug/mL
							alpha-BHC	0.005 ug/mL
							beta-BHC	0.005 ug/mL
							cis-Chlordane	0.005 ug/mL
							delta-BHC	0.005 ug/mL
							Dieldrin	0.005 ug/mL
							Endosulfan I	0.005 ug/mL
							Endosulfan II	0.005 ug/mL
							Endosulfan sulfate	0.005 ug/mL
							Endrin	0.005 ug/mL
							Endrin aldehyde	0.005 ug/mL
							Endrin ketone	0.005 ug/mL
							gamma-BHC (Lindane)	0.005 ug/mL
							Heptachlor	0.005 ug/mL
							Heptachlor epoxide	0.005 ug/mL
							Methoxychlor	0.005 ug/mL
							trans-Chlordane	0.005 ug/mL
.GCCLPSURRSTK_00013	08/06/22	08/06/21	Hexane, Lot 4368221	20 mL	GCPEST(SURR)S_00010	0.5 mL	DCB Decachlorobiphenyl (Surr)	5 ug/mL
							Tetrachloro-m-xylene (Surr)	5 ug/mL
..GCPEST(SURR)S_00010	11/30/24		RESTEK, Lot A0141110		(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene (Surr)	200 ug/mL
.GCPEstCAL_00016	03/03/22	03/03/21	Hexane, Lot 4040129	20 mL	GCPESTAB3STD_00004	0.1 mL	4,4'-DDD	10 ug/mL
							4,4'-DDE	10 ug/mL
							4,4'-DDT	10 ug/mL
							Aldrin	10 ug/mL
							alpha-BHC	10 ug/mL
							beta-BHC	10 ug/mL
							cis-Chlordane	10 ug/mL
							delta-BHC	10 ug/mL
							Dieldrin	10 ug/mL
							Endosulfan I	10 ug/mL

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Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Endosulfan II	10 ug/mL
							Endosulfan sulfate	10 ug/mL
							Endrin	10 ug/mL
							Endrin aldehyde	10 ug/mL
							Endrin ketone	10 ug/mL
							gamma-BHC (Lindane)	10 ug/mL
							Heptachlor	10 ug/mL
							Heptachlor epoxide	10 ug/mL
							Methoxychlor	10 ug/mL
							trans-Chlordane	10 ug/mL
..GCPESTAB3STD_00004	09/30/22	RESTEK, Lot A0137734			(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							beta-BHC	2000 ug/mL
							cis-Chlordane	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
							trans-Chlordane	2000 ug/mL
GCPEstL3_00042	03/03/22	09/10/21	Hexane, Lot 4368221	100 mL	GCCLPSURRSTK_00013	0.5 mL	DCB Decachlorobiphenyl (Surr)	0.025 ug/mL
							Tetrachloro-m-xylene (Surr)	0.025 ug/mL
					GCPEstCAL_00016	0.25 mL	4,4'-DDD	0.025 ug/mL
							4,4'-DDE	0.025 ug/mL
							4,4'-DDT	0.025 ug/mL
							Aldrin	0.025 ug/mL
							alpha-BHC	0.025 ug/mL
							beta-BHC	0.025 ug/mL
							cis-Chlordane	0.025 ug/mL
							delta-BHC	0.025 ug/mL
							Dieldrin	0.025 ug/mL
							Endosulfan I	0.025 ug/mL
							Endosulfan II	0.025 ug/mL
							Endosulfan sulfate	0.025 ug/mL
							Endrin	0.025 ug/mL
							Endrin aldehyde	0.025 ug/mL
							Endrin ketone	0.025 ug/mL

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Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							gamma-BHC (Lindane)	0.025 ug/mL
							Heptachlor	0.025 ug/mL
							Heptachlor epoxide	0.025 ug/mL
							Methoxychlor	0.025 ug/mL
							trans-Chlordane	0.025 ug/mL
.GCCLPSURRSTK_00013	08/06/22	08/06/21	Hexane, Lot 4368221	20 mL	GCPEST(SURR)S_00010	0.5 mL	DCB Decachlorobiphenyl (Surr)	5 ug/mL
							Tetrachloro-m-xylene (Surr)	5 ug/mL
..GCPEST(SURR)S_00010	11/30/24	RESTEK, Lot A0141110			(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene (Surr)	200 ug/mL
.GCPEstCAL_00016	03/03/22	03/03/21	Hexane, Lot 4040129	20 mL	GCPESTAB3STD_00004	0.1 mL	4,4'-DDD	10 ug/mL
							4,4'-DDE	10 ug/mL
							4,4'-DDT	10 ug/mL
							Aldrin	10 ug/mL
							alpha-BHC	10 ug/mL
							beta-BHC	10 ug/mL
							cis-Chlordane	10 ug/mL
							delta-BHC	10 ug/mL
							Dieldrin	10 ug/mL
							Endosulfan I	10 ug/mL
							Endosulfan II	10 ug/mL
							Endosulfan sulfate	10 ug/mL
							Endrin	10 ug/mL
							Endrin aldehyde	10 ug/mL
							Endrin ketone	10 ug/mL
							gamma-BHC (Lindane)	10 ug/mL
							Heptachlor	10 ug/mL
							Heptachlor epoxide	10 ug/mL
							Methoxychlor	10 ug/mL
							trans-Chlordane	10 ug/mL
..GCPESTAB3STD_00004	09/30/22	RESTEK, Lot A0137734			(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							beta-BHC	2000 ug/mL
							cis-Chlordane	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-Chlordane	2000 ug/mL
GCPEstL4_00028	03/03/22	09/10/21	Hexane, Lot 4368221	40 mL	GCCLPSURRSTK_00013	0.4 mL	DCB Decachlorobiphenyl (Surr)	0.05 ug/mL
					GCPEstCAL_00016	0.2 mL	Tetrachloro-m-xylene (Surr)	0.05 ug/mL
							4,4'-DDD	0.05 ug/mL
							4,4'-DDE	0.05 ug/mL
							4,4'-DDT	0.05 ug/mL
							Aldrin	0.05 ug/mL
							alpha-BHC	0.05 ug/mL
							beta-BHC	0.05 ug/mL
							cis-Chlordane	0.05 ug/mL
							delta-BHC	0.05 ug/mL
							Dieldrin	0.05 ug/mL
							Endosulfan I	0.05 ug/mL
							Endosulfan II	0.05 ug/mL
							Endosulfan sulfate	0.05 ug/mL
							Endrin	0.05 ug/mL
							Endrin aldehyde	0.05 ug/mL
							Endrin ketone	0.05 ug/mL
							gamma-BHC (Lindane)	0.05 ug/mL
							Heptachlor	0.05 ug/mL
							Heptachlor epoxide	0.05 ug/mL
							Methoxychlor	0.05 ug/mL
							trans-Chlordane	0.05 ug/mL
.GCCLPSURRSTK_00013	08/06/22	08/06/21	Hexane, Lot 4368221	20 mL	GCPEST(SURR)S_00010	0.5 mL	DCB Decachlorobiphenyl (Surr)	5 ug/mL
							Tetrachloro-m-xylene (Surr)	5 ug/mL
..GCPEST(SURR)S_00010	11/30/24	RESTEK, Lot A0141110			(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene (Surr)	200 ug/mL
GCPEstCAL_00016	03/03/22	03/03/21	Hexane, Lot 4040129	20 mL	GCPESTAB3STD_00004	0.1 mL	4,4'-DDD	10 ug/mL
							4,4'-DDE	10 ug/mL
							4,4'-DDT	10 ug/mL
							Aldrin	10 ug/mL
							alpha-BHC	10 ug/mL
							beta-BHC	10 ug/mL
							cis-Chlordane	10 ug/mL
							delta-BHC	10 ug/mL
							Dieldrin	10 ug/mL
							Endosulfan I	10 ug/mL
							Endosulfan II	10 ug/mL
							Endosulfan sulfate	10 ug/mL
							Endrin	10 ug/mL
							Endrin aldehyde	10 ug/mL
							Endrin ketone	10 ug/mL
							gamma-BHC (Lindane)	10 ug/mL
							Heptachlor	10 ug/mL
							Heptachlor epoxide	10 ug/mL
							Methoxychlor	10 ug/mL
							trans-Chlordane	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
..GCPESTAB3STD_00004	09/30/22		RESTEK, Lot A0137734		(Purchased Reagent)		4,4'-DDD	2000 ug/mL	
							4,4'-DDE	2000 ug/mL	
							4,4'-DDT	2000 ug/mL	
							Aldrin	2000 ug/mL	
							alpha-BHC	2000 ug/mL	
							beta-BHC	2000 ug/mL	
							cis-Chlordane	2000 ug/mL	
							delta-BHC	2000 ug/mL	
							Dieldrin	2000 ug/mL	
							Endosulfan I	2000 ug/mL	
							Endosulfan II	2000 ug/mL	
							Endosulfan sulfate	2000 ug/mL	
							Endrin	2000 ug/mL	
							Endrin aldehyde	2000 ug/mL	
							Endrin ketone	2000 ug/mL	
							gamma-BHC (Lindane)	2000 ug/mL	
							Heptachlor	2000 ug/mL	
							Heptachlor epoxide	2000 ug/mL	
							Methoxychlor	2000 ug/mL	
trans-Chlordane	2000 ug/mL								
GCPEstL5_00026	03/03/22	09/10/21	Hexane, Lot 4368221	40 mL	GCCLPSURRSTK_00013	0.8 mL	DCB Decachlorobiphenyl (Surr)	0.1 ug/mL	
							Tetrachloro-m-xylene (Surr)	0.1 ug/mL	
						GCPEstCAL_00016	0.4 mL	4,4'-DDD	0.1 ug/mL
					4,4'-DDE			0.1 ug/mL	
					4,4'-DDT			0.1 ug/mL	
					Aldrin			0.1 ug/mL	
					alpha-BHC			0.1 ug/mL	
					beta-BHC			0.1 ug/mL	
					cis-Chlordane			0.1 ug/mL	
					delta-BHC			0.1 ug/mL	
					Dieldrin			0.1 ug/mL	
					Endosulfan I			0.1 ug/mL	
					Endosulfan II			0.1 ug/mL	
					Endosulfan sulfate			0.1 ug/mL	
					Endrin			0.1 ug/mL	
					Endrin aldehyde			0.1 ug/mL	
					Endrin ketone			0.1 ug/mL	
					gamma-BHC (Lindane)			0.1 ug/mL	
					Heptachlor			0.1 ug/mL	
					Heptachlor epoxide			0.1 ug/mL	
					Methoxychlor			0.1 ug/mL	
					trans-Chlordane			0.1 ug/mL	
.GCCLPSURRSTK_00013	08/06/22	08/06/21	Hexane, Lot 4368221	20 mL	GCPEST (SURR)S_00010	0.5 mL	DCB Decachlorobiphenyl (Surr)	5 ug/mL	
						Tetrachloro-m-xylene (Surr)	5 ug/mL		
..GCPEST (SURR)S_00010	11/30/24	RESTEK, Lot A0141110			(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL	
						Tetrachloro-m-xylene (Surr)	200 ug/mL		
.GCPEstCAL_00016	03/03/22	03/03/21	Hexane, Lot 4040129	20 mL	GCPESTAB3STD_00004	0.1 mL	4,4'-DDD	10 ug/mL	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4,4'-DDE	10 ug/mL
							4,4'-DDT	10 ug/mL
							Aldrin	10 ug/mL
							alpha-BHC	10 ug/mL
							beta-BHC	10 ug/mL
							cis-Chlordane	10 ug/mL
							delta-BHC	10 ug/mL
							Dieldrin	10 ug/mL
							Endosulfan I	10 ug/mL
							Endosulfan II	10 ug/mL
							Endosulfan sulfate	10 ug/mL
							Endrin	10 ug/mL
							Endrin aldehyde	10 ug/mL
							Endrin ketone	10 ug/mL
							gamma-BHC (Lindane)	10 ug/mL
							Heptachlor	10 ug/mL
							Heptachlor epoxide	10 ug/mL
..GCPESTAB3STD_00004	09/30/22		RESTEK, Lot A0137734		(Purchased Reagent)		Methoxychlor	10 ug/mL
							trans-Chlordane	10 ug/mL
							4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							beta-BHC	2000 ug/mL
							cis-Chlordane	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
GCPEstL6_00026	03/03/22	09/10/21	Hexane, Lot 4368221	40 mL	GCCLPSURRSTK_00013	1.6 mL	DCB Decachlorobiphenyl (Surr)	0.2 ug/mL
							Tetrachloro-m-xylene (Surr)	0.2 ug/mL
					GCPEstCAL_00016	0.8 mL	4,4'-DDD	0.2 ug/mL
							4,4'-DDE	0.2 ug/mL
							4,4'-DDT	0.2 ug/mL
							Aldrin	0.2 ug/mL
							alpha-BHC	0.2 ug/mL
							beta-BHC	0.2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-Chlordane	0.2 ug/mL
							delta-BHC	0.2 ug/mL
							Dieldrin	0.2 ug/mL
							Endosulfan I	0.2 ug/mL
							Endosulfan II	0.2 ug/mL
							Endosulfan sulfate	0.2 ug/mL
							Endrin	0.2 ug/mL
							Endrin aldehyde	0.2 ug/mL
							Endrin ketone	0.2 ug/mL
							gamma-BHC (Lindane)	0.2 ug/mL
							Heptachlor	0.2 ug/mL
							Heptachlor epoxide	0.2 ug/mL
							Methoxychlor	0.2 ug/mL
							trans-Chlordane	0.2 ug/mL
.GCCLPSURRSTK_00013	08/06/22	08/06/21	Hexane, Lot 4368221	20 mL	GCPEST(SURR)S_00010	0.5 mL	DCB Decachlorobiphenyl (Surr)	5 ug/mL
							Tetrachloro-m-xylene (Surr)	5 ug/mL
..GCPEST(SURR)S_00010	11/30/24	RESTEK, Lot A0141110			(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene (Surr)	200 ug/mL
.GCPEstCAL_00016	03/03/22	03/03/21	Hexane, Lot 4040129	20 mL	GCPESTAB3STD_00004	0.1 mL	4,4'-DDD	10 ug/mL
							4,4'-DDE	10 ug/mL
							4,4'-DDT	10 ug/mL
							Aldrin	10 ug/mL
							alpha-BHC	10 ug/mL
							beta-BHC	10 ug/mL
							cis-Chlordane	10 ug/mL
							delta-BHC	10 ug/mL
							Dieldrin	10 ug/mL
							Endosulfan I	10 ug/mL
							Endosulfan II	10 ug/mL
							Endosulfan sulfate	10 ug/mL
							Endrin	10 ug/mL
							Endrin aldehyde	10 ug/mL
							Endrin ketone	10 ug/mL
							gamma-BHC (Lindane)	10 ug/mL
							Heptachlor	10 ug/mL
							Heptachlor epoxide	10 ug/mL
							Methoxychlor	10 ug/mL
							trans-Chlordane	10 ug/mL
..GCPESTAB3STD_00004	09/30/22	RESTEK, Lot A0137734			(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							beta-BHC	2000 ug/mL
							cis-Chlordane	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
							trans-Chlordane	2000 ug/mL
GCPESTPEMSTD_00051	06/30/22	01/05/22	Hexane, Lot 4595066	100 mL	GCCLPSURRSTK_00013	0.5 mL	DCB Decachlorobiphenyl (Surr)	0.025 ug/mL
					GCPEST (PEM2)_00002	0.5 mL	Tetrachloro-m-xylene (Surr)	0.025 ug/mL
							4,4'-DDT	0.05 ug/mL
							Endrin	0.025 ug/mL
.GCCLPSURRSTK_00013	08/06/22	08/06/21	Hexane, Lot 4368221	20 mL	GCPEST (SURR)S_00010	0.5 mL	DCB Decachlorobiphenyl (Surr)	5 ug/mL
							Tetrachloro-m-xylene (Surr)	5 ug/mL
..GCPEST (SURR)S_00010	11/30/24		RESTEK, Lot A0141110		(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	200 ug/mL
							Tetrachloro-m-xylene (Surr)	200 ug/mL
.GCPEST (PEM2)_00002	06/30/22		RESTEK, Lot A0150215		(Purchased Reagent)		4,4'-DDT	10 ug/mL
							Endrin	5 ug/mL
GCTBASOLUTION_00069	10/22/22	10/22/21	DI Water, Lot n/a	4 L	GCNa2SO3_00015	1000 g	Sodium Sulfite	1982.5 ug/mL
					GCTBA98.0_00008	135.6 g	Tetrabutylammonium Hydrogen Sulfate	33222 ug/mL
.GCNa2SO3_00015	08/01/25		Fisher, Lot 203490		(Purchased Reagent)		Sodium Sulfite	0.00793 mol/g
.GCTBA98.0_00008	02/04/25		Arcos Organics, Lot A0397220		(Purchased Reagent)		Tetrabutylammonium Hydrogen Sulfate	98 %
GCTOXLEVEL1_00018	06/02/22	01/05/22	Hexane, Lot 4595066	40 mL	GCTOXINTERSTD_00009	0.016 mL	Toxaphene Peak 1	0.02 ug/mL
							Toxaphene Peak 2	0.02 ug/mL
							Toxaphene Peak 3	0.02 ug/mL
							Toxaphene Peak 4	0.02 ug/mL
.GCTOXINTERSTD_00009	06/02/22	06/02/21	Hexane, Lot 4180122	25 mL	GCTOXSTDSTD_00003	0.25 mL	Toxaphene Peak 1	50 ug/mL
							Toxaphene Peak 2	50 ug/mL
							Toxaphene Peak 3	50 ug/mL
							Toxaphene Peak 4	50 ug/mL
..GCTOXSTDSTD_00003	02/29/24		RESTEK, Lot A0155399		(Purchased Reagent)		Toxaphene Peak 1	5000 ug/mL
							Toxaphene Peak 2	5000 ug/mL
							Toxaphene Peak 3	5000 ug/mL
							Toxaphene Peak 4	5000 ug/mL
GCTOXLEVEL2_00015	06/02/22	01/05/22	Hexane, Lot 4595066	40 mL	GCTOXINTERSTD_00009	0.16 mL	Toxaphene Peak 1	0.2 ug/mL
							Toxaphene Peak 2	0.2 ug/mL
							Toxaphene Peak 3	0.2 ug/mL
							Toxaphene Peak 4	0.2 ug/mL
.GCTOXINTERSTD_00009	06/02/22	06/02/21	Hexane, Lot 4180122	25 mL	GCTOXSTDSTD_00003	0.25 mL	Toxaphene Peak 1	50 ug/mL
							Toxaphene Peak 2	50 ug/mL
							Toxaphene Peak 3	50 ug/mL
							Toxaphene Peak 4	50 ug/mL
..GCTOXSTDSTD_00003	02/29/24		RESTEK, Lot A0155399		(Purchased Reagent)		Toxaphene Peak 1	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toxaphene Peak 2	5000 ug/mL
							Toxaphene Peak 3	5000 ug/mL
							Toxaphene Peak 4	5000 ug/mL
GCTOXLEVEL3_00032	06/02/22	01/05/22	Hexane, Lot 4595066	40 mL	GCTOXINTERSTD_00009	0.8 mL	Toxaphene Peak 1	1 ug/mL
							Toxaphene Peak 2	1 ug/mL
							Toxaphene Peak 3	1 ug/mL
							Toxaphene Peak 4	1 ug/mL
.GCTOXINTERSTD_00009	06/02/22	06/02/21	Hexane, Lot 4180122	25 mL	GCTOXSTDSTD_00003	0.25 mL	Toxaphene Peak 1	50 ug/mL
							Toxaphene Peak 2	50 ug/mL
							Toxaphene Peak 3	50 ug/mL
							Toxaphene Peak 4	50 ug/mL
..GCTOXSTDSTD_00003	02/29/24		RESTEK, Lot A0155399		(Purchased Reagent)		Toxaphene Peak 1	5000 ug/mL
							Toxaphene Peak 2	5000 ug/mL
							Toxaphene Peak 3	5000 ug/mL
							Toxaphene Peak 4	5000 ug/mL
GCTOXLEVEL3_00032	06/02/22	01/05/22	Hexane, Lot 4595066	40 mL	GCTOXINTERSTD_00009	0.8 mL	Toxaphene	1 ug/mL
.GCTOXINTERSTD_00009	06/02/22	06/02/21	Hexane, Lot 4180122	25 mL	GCTOXSTDSTD_00003	0.25 mL	Toxaphene	50 ug/mL
..GCTOXSTDSTD_00003	02/29/24		RESTEK, Lot A0155399		(Purchased Reagent)		Toxaphene	5000 ug/mL
GCTOXLEVEL4_00016	06/02/22	01/05/22	Hexane, Lot 4595066	20 mL	GCTOXINTERSTD_00009	1 mL	Toxaphene Peak 1	2.5 ug/mL
							Toxaphene Peak 2	2.5 ug/mL
							Toxaphene Peak 3	2.5 ug/mL
							Toxaphene Peak 4	2.5 ug/mL
.GCTOXINTERSTD_00009	06/02/22	06/02/21	Hexane, Lot 4180122	25 mL	GCTOXSTDSTD_00003	0.25 mL	Toxaphene Peak 1	50 ug/mL
							Toxaphene Peak 2	50 ug/mL
							Toxaphene Peak 3	50 ug/mL
							Toxaphene Peak 4	50 ug/mL
..GCTOXSTDSTD_00003	02/29/24		RESTEK, Lot A0155399		(Purchased Reagent)		Toxaphene Peak 1	5000 ug/mL
							Toxaphene Peak 2	5000 ug/mL
							Toxaphene Peak 3	5000 ug/mL
							Toxaphene Peak 4	5000 ug/mL
GCTOXLEVEL5_00020	06/02/22	01/05/22	Hexane, Lot 4595066	20 mL	GCTOXINTERSTD_00009	2 mL	Toxaphene Peak 1	5 ug/mL
							Toxaphene Peak 2	5 ug/mL
							Toxaphene Peak 3	5 ug/mL
							Toxaphene Peak 4	5 ug/mL
.GCTOXINTERSTD_00009	06/02/22	06/02/21	Hexane, Lot 4180122	25 mL	GCTOXSTDSTD_00003	0.25 mL	Toxaphene Peak 1	50 ug/mL
							Toxaphene Peak 2	50 ug/mL
							Toxaphene Peak 3	50 ug/mL
							Toxaphene Peak 4	50 ug/mL
..GCTOXSTDSTD_00003	02/29/24		RESTEK, Lot A0155399		(Purchased Reagent)		Toxaphene Peak 1	5000 ug/mL
							Toxaphene Peak 2	5000 ug/mL
							Toxaphene Peak 3	5000 ug/mL
							Toxaphene Peak 4	5000 ug/mL
Herb (RTS) spk_00013	09/30/22		restek, Lot A0164201		(Purchased Reagent)		2,4,5-T	5 ug/mL
							2,4-D	20 ug/mL
							2,4-DB	20 ug/mL
							Dalapon	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dicamba	10 ug/mL
							Dichlorprop	20 ug/mL
							Dinoseb	20 ug/mL
							MCPA	2000 ug/mL
							MCPP	2000 ug/mL
							Pentachlorophenol	5 ug/mL
							Silvex (2,4,5-TP)	5 ug/mL
LPTCLPSpike_00020	09/03/22	CPI, Lot 10125125-1			(Purchased Reagent)		Arsenic	500 ppm
							Barium	5000 ppm
							Cadmium	100 ppm
							Chromium	500 ppm
							Lead	500 ppm
							Selenium	100 ppm
							Silver	100 ppm
M6500CCV_00109	04/10/22	01/10/22	5%HNO3 - 5%HCL, Lot 21K1262004 - 281827	1000 mL	MTAPITTCALTRA_00013	10 mL	Arsenic	0.5 ppm
							Cadmium	0.5 ppm
							Lead	0.5 ppm
							Selenium	0.5 ppm
							Silver	1 ppm
					MTAPITTCALTRC_00013	10 mL	Barium	2 ppm
							Chromium	2 ppm
							Copper	2 ppm
							Nickel	2 ppm
							Zinc	2 ppm
MTAPITTCALTRD_00014	10 mL	Molybdenum	2 ppm					
.MTAPITTCALTRA_00013	05/20/22	Inorganic Ventures, Lot S2-MEB704932			(Purchased Reagent)		Arsenic	50 ppm
							Cadmium	50 ppm
							Lead	50 ppm
							Selenium	50 ppm
							Silver	100 ppm
.MTAPITTCALTRC_00013	05/20/22	Inorganic Ventures, Lot S2-MEB704934			(Purchased Reagent)		Barium	200 ppm
							Chromium	200 ppm
							Copper	200 ppm
							Nickel	200 ppm
							Zinc	200 ppm
.MTAPITTCALTRD_00014	05/20/22	Inorganic Ventures, Lot S2-MEB704935			(Purchased Reagent)		Molybdenum	200 ppm
M6500ICSAB_00017	03/22/22	12/22/21	5%HNO3 - 5%HCL, Lot 215109 - 281827	1000 mL	M6500ICSA_00013	100 mL	Al	500 ppm
							Ca	500 ppm
							Fe	200 ppm
							Mg	500 ppm
					MLI1000_00003	1 mL	Li	1 ppm
					TA-ICP-ICSAB1_00002	10 mL	Molybdenum	1 ppm
							Sb	1 ppm
							Si	10 ppm
Sn	1 ppm							

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					TA-ICP-ICSAB2_00002	10 mL	Ti	1 ppm
							Arsenic	1 ppm
							B	10 ppm
							Barium	1 ppm
							Be	0.5 ppm
							Cadmium	1 ppm
							Chromium	1 ppm
							Co	1 ppm
							Copper	1 ppm
							K	10 ppm
							Lead	1 ppm
							Mn	1 ppm
							Na	10 ppm
							Nickel	1 ppm
							Selenium	1 ppm
							Silver	1 ppm
							Sr	1 ppm
							Tl	1 ppm
							V	1 ppm
							Zinc	1 ppm
.M6500ICSA_00013	03/13/23	CPI International, Lot 1121422-1			(Purchased Reagent)		Al	5000 ppm
							Ca	5000 ppm
							Fe	2000 ppm
							Mg	5000 ppm
.MLI1000_00003	09/30/22	CPI International, Lot 1094768-25			(Purchased Reagent)		Li	1000 ppm
.TA-ICP-ICSAB1_00002	01/22/23	CPI International, Lot 1115088-1			(Purchased Reagent)		Molybdenum	100 ppm
							Sb	100 ppm
							Si	1000 ppm
							Sn	100 ppm
							Ti	100 ppm
.TA-ICP-ICSAB2_00002	01/22/23	CPI International, Lot 1133580-1			(Purchased Reagent)		Arsenic	100 ppm
							B	1000 ppm
							Barium	100 ppm
							Be	50 ppm
							Cadmium	100 ppm
							Chromium	100 ppm
							Co	100 ppm
							Copper	100 ppm
							K	1000 ppm
							Lead	100 ppm
							Mn	100 ppm
							Na	1000 ppm
							Nickel	100 ppm
							Selenium	100 ppm
							Silver	100 ppm
							Sr	100 ppm
							Tl	100 ppm
							V	100 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Zinc	100 ppm
M6500ICV_00033	03/21/22	12/21/21	5%HNO3 - 5%HCL, Lot 215109 - 281827	1000 mL	MTAPITTICPICV_00018	20 mL	Arsenic	0.25 ppm
							Barium	1 ppm
							Cadmium	0.25 ppm
							Chromium	1 ppm
							Copper	1 ppm
							Lead	0.25 ppm
							Molybdenum	1 ppm
							Nickel	1 ppm
							Selenium	0.25 ppm
							Silver	0.5 ppm
							Zinc	1 ppm
.MTAPITTICPICV_00018	08/30/22		SPEX, Lot 17-037AB		(Purchased Reagent)		Arsenic	12.5 ppm
							Barium	50 ppm
							Cadmium	12.5 ppm
							Chromium	50 ppm
							Copper	50 ppm
							Lead	12.5 ppm
							Molybdenum	50 ppm
							Nickel	50 ppm
							Selenium	12.5 ppm
							Silver	25 ppm
							Zinc	50 ppm
MHgworkingCal_02771	01/13/22	01/12/22	2% Nitric Acid, Lot cont #:4579168	100 mL	MHgIntcal_01830	1 mL	Mercury	100 ppb
.MHgIntcal_01830	01/13/22	01/12/22	2% Nitric Acid, Lot cont #: 4579168	100 mL	MCGHG1-1_00016	1 mL	Mercury	10 ppm
..MCGHG1-1_00016	11/24/22		CPI, Lot 1084154-49		(Purchased Reagent)		Mercury	1000 ppm
MHgworkingCal_02772	01/14/22	01/13/22	2% Nitric Acid, Lot cont #:4579168	100 mL	MHgIntcal_01831	1 mL	Mercury	100 ppb
.MHgIntcal_01831	01/14/22	01/13/22	2% Nitric Acid, Lot cont #: 4579168	100 mL	MCGHG1-1_00016	1 mL	Mercury	10 ppm
..MCGHG1-1_00016	11/24/22		CPI, Lot 1084154-49		(Purchased Reagent)		Mercury	1000 ppm
MHgWorkingicv_02708	01/14/22	01/13/22	2% Nitric Acid, Lot cont#: 4579168	100 mL	MHgIntICV_01778	1 mL	Mercury	100 ppb
.MHgIntICV_01778	01/14/22	01/13/22	2% Nitric Acid, Lot cont #: 4579168	100 mL	MHGICV-1_00012	1 mL	Mercury	10 ppm
..MHGICV-1_00012	01/31/23		Env. Express, Lot 2107432-100EE		(Purchased Reagent)		Mercury	1000 ppm
MICSAICP_00110	03/21/22	12/21/21	5%HNO3 - 5%HCL, Lot 215109 - 281827	1000 mL	M6500ICSA_00013	100 mL	Al	500 ppm
							Ca	500 ppm
							Fe	200 ppm
							Mg	500 ppm
.M6500ICSA_00013	03/13/23		CPI International, Lot 1121422-1		(Purchased Reagent)		Al	5000 ppm
							Ca	5000 ppm
							Fe	2000 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh

Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Mg	5000 ppm
MICVLCCVL_00052	04/12/22	01/12/22	5%HNO3 - 5%HCL, Lot 21K1262004 - 281827	1000 mL	EUROPITT-CRA1_00002	10 mL	Arsenic	0.01 ppm
							Barium	0.2 ppm
							Cadmium	0.005 ppm
							Chromium	0.005 ppm
							Copper	0.025 ppm
							Lead	0.01 ppm
							Nickel	0.04 ppm
							Selenium	0.01 ppm
							Silver	0.005 ppm
							Zinc	0.02 ppm
					EUROPITT-CRA2_00002	10 mL	Molybdenum	0.04 ppm
.EUROPITT-CRA1_00002	04/20/23	CPI International, Lot 10114318-4	(Purchased Reagent)	Arsenic	1 ppm			
				Barium	20 ppm			
				Cadmium	0.5 ppm			
				Chromium	0.5 ppm			
				Copper	2.5 ppm			
				Lead	1 ppm			
				Nickel	4 ppm			
				Selenium	1 ppm			
				Silver	0.5 ppm			
				Zinc	2 ppm			
.EUROPITT-CRA2_00002	04/20/23	CPI International, Lot 10114318-3	(Purchased Reagent)	Molybdenum	4 ppm			
MTCLPHgSpike_00035	02/17/22	08/17/21	DI Water, Lot 4368406	100 mL	MCGHG1-1_00016	0.1 mL	Mercury	1000 ppb
.MCGHG1-1_00016	11/24/22	CPI, Lot 1084154-49			(Purchased Reagent)		Mercury	1000 ppm
op-p/pcb sur_00029	02/11/22	08/05/21	ACETONE, Lot 3747124	2000 mL	GCDCBStock_00010	1.6 mL	DCB Decachlorobiphenyl (Surr)	0.8 ug/mL
					GCTCMXSTD_00012	0.8 mL	Tetrachloro-m-xylene (Surr)	0.8 ug/mL
.GCDCBStock_00010	05/31/25	AGILENT, Lot 0006599545			(Purchased Reagent)		DCB Decachlorobiphenyl (Surr)	1000 ug/mL
.GCTCMXSTD_00012	07/31/25	Agilent, Lot 0006612638			(Purchased Reagent)		Tetrachloro-m-xylene (Surr)	2000 ug/mL
OP8270TCLPSPi_00048	06/30/22	12/31/21	Methanol, Lot 0000273166	100 mL	svTCLPacids_00013	5 mL	2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Methylphenol	200 ug/mL
							Cresols, Total	300 ug/mL
							m & p-Cresol	200 ug/mL
							o-Cresol	100 ug/mL
							Pentachlorophenol	100 ug/mL
							Total Cresols	300 ug/mL
							svTCLPbns_00011	5 mL
					2,4-Dinitrotoluene	100 ug/mL		
					Hexachlorobenzene	100 ug/mL		
					Hexachlorobutadiene	100 ug/mL		
					Hexachloroethane	100 ug/mL		
					Nitrobenzene	100 ug/mL		
					Pyridine	100 ug/mL		

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.svTCLPacids_00013	11/30/23	Restek, Lot A0165463			(Purchased Reagent)		2,4,5-Trichlorophenol	2000 ug/mL
							2,4,6-Trichlorophenol	2000 ug/mL
							3 & 4 Methylphenol	4000 ug/mL
							3-Methylphenol	4000 ug/mL
							Cresols, Total	6000 ug/mL
							m & p-Cresol	4000 ug/mL
							o-Cresol	2000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Total Cresols	6000 ug/mL
.svTCLPbns_00011	12/31/23	Restek, Lot A0158475			(Purchased Reagent)		1,4-Dichlorobenzene	2000 ug/mL
							2,4-Dinitrotoluene	2000 ug/mL
							Hexachlorobenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Hexachloroethane	2000 ug/mL
							Nitrobenzene	2000 ug/mL
						Pyridine	2000 ug/mL	
OPHERBTSSURR_00013	10/30/22	RESTEK, Lot a0165153			(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	10 ug/mL
OPPESTMATRIX_00050	04/05/22	10/05/21	ACETONE, Lot 3747111	100 mL	GCPESTAB3STD_00004	0.05 mL	4,4'-DDD	1 ug/mL
							4,4'-DDE	1 ug/mL
							4,4'-DDT	1 ug/mL
							Aldrin	1 ug/mL
							alpha-BHC	1 ug/mL
							beta-BHC	1 ug/mL
							cis-Chlordane	1 ug/mL
							delta-BHC	1 ug/mL
							Dieldrin	1 ug/mL
							Endosulfan I	1 ug/mL
							Endosulfan II	1 ug/mL
							Endosulfan sulfate	1 ug/mL
							Endrin	1 ug/mL
							Endrin aldehyde	1 ug/mL
							Endrin ketone	1 ug/mL
							gamma-BHC (Lindane)	1 ug/mL
							Heptachlor	1 ug/mL
							Heptachlor epoxide	1 ug/mL
							Methoxychlor	1 ug/mL
.GCPESTAB3STD_00004	09/30/22	RESTEK, Lot A0137734			(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							beta-BHC	2000 ug/mL
							cis-Chlordane	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL

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Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
							trans-Chlordane	2000 ug/mL
OPQL8270SURI_00121	06/23/22	12/23/21	Methanol, Lot 0000273166	500 mL	SVLVSURSPK_00018	20 mL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
.SVLVSURSPK_00018	05/31/26		Restek, Lot A0172807		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
PCBINT_00017	05/20/21	11/19/20	Hexane, Lot 3878999	100 mL	GCBZ#205STD1_00006	10 mL	PCB-205 (IS)	10 ug/mL
					GCpest/pcbINT_00006	1 mL	1-Bromo-2-nitrobenzene	10 ug/mL
.GCBZ#205STD1_00006	09/06/26		AccuStandard, Lot 216091034		(Purchased Reagent)		PCB-205 (IS)	100 ug/mL
.GCpest/pcbINT_00006	04/30/23		restek, Lot A0157061		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
PCBINT_00020	04/22/22	10/22/21	Hexane, Lot 3878999	100 mL	GCBZ#205STD1_00006	10 mL	PCB-205 (IS)	10 ug/mL
					GCpest/pcbINT_00006	1 mL	1-Bromo-2-nitrobenzene	10 ug/mL
.GCBZ#205STD1_00006	09/06/26		AccuStandard, Lot 216091034		(Purchased Reagent)		PCB-205 (IS)	100 ug/mL
.GCpest/pcbINT_00006	04/30/23		restek, Lot A0157061		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
SVDFTPP50i_00041							Aramite, Total	
							Cresols, Total	
							Diallate	
							Tentatively Identified Compound	
					SVTUNINGMIXs_00008	250 uL	4,4'-DDD	0 ug/mL
							4,4'-DDE	0 ug/mL
							4,4'-DDT	25 ug/mL
							Benzidine_T	25 ug/mL
							DFTPP	25 ug/mL
							Pentachlorophenol_T	25 ug/mL
.SVTUNINGMIXs_00008	03/31/22		Restek, Lot A0147424		(Purchased Reagent)		4,4'-DDD	0 ug/mL
							4,4'-DDE	0 ug/mL
							4,4'-DDT	1000 ug/mL
							Benzidine_T	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							DFTPP	1000 ug/mL
							Pentachlorophenol_T	1000 ug/mL
SVDFTPP50i_00043							Aramite, Total	
							Cresols, Total	
							Diallate	
							Tentatively Identified Compound	
					SVTUNINGMIXs_00009	250 uL	4,4'-DDD	0 ug/mL
							4,4'-DDE	0 ug/mL
							4,4'-DDT	25 ug/mL
							Benzidine_T	25 ug/mL
							DFTPP	25 ug/mL
							Pentachlorophenol_T	25 ug/mL
.SVTUNINGMIXs_00009	11/30/24	Restek, Lot A0178508			(Purchased Reagent)		4,4'-DDD	0 ug/mL
							4,4'-DDE	0 ug/mL
							4,4'-DDT	1000 ug/mL
							Benzidine_T	1000 ug/mL
							DFTPP	1000 ug/mL
							Pentachlorophenol_T	1000 ug/mL
SVTAPITINTRNi_00029	12/16/22	12/16/21	MeCl2, Lot 4498350	25 mL	SVLVIntstd_00012	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
	.SVLVIntstd_00012	03/31/25	Restek, Lot A0159166		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
SVTAPSTD0.38i_00015	01/06/22	07/06/21	MeCl2, Lot 4275032	1 mL	SVTAPITINTRNi_00027	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00030	4.75 uL	Benzo[e]pyrene	0.19 ug/mL
							Benzoic acid	0.19 ug/mL
							Indene	0.19 ug/mL
							2,3,5,6-Tetrachlorophenol	0.19 ug/mL
							2-Naphthylamine	0.19 ug/mL
							7,12-Dimethylbenz (a) anthracene	0.19 ug/mL
							1,1'-Biphenyl	0.19 ug/mL
							1,2,4,5-Tetrachlorobenzene	0.19 ug/mL
							1,2,4-Trichlorobenzene	0.19 ug/mL
							1,2-Dichlorobenzene	0.19 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Diphenylhydrazine	0.19 ug/mL
							1,3-Dichlorobenzene	0.19 ug/mL
							1,3-Dinitrobenzene	0.19 ug/mL
							1,4-Dichlorobenzene	0.19 ug/mL
							1,4-Dioxane	0.19 ug/mL
							1-Methylnaphthalene	0.19 ug/mL
							2,2'-oxybis[1-chloropropane]	0.19 ug/mL
							2,3,4,6-Tetrachlorophenol	0.19 ug/mL
							2,4,5-Trichlorophenol	0.19 ug/mL
							2,4,6-Trichlorophenol	0.19 ug/mL
							2,4-Dichlorophenol	0.19 ug/mL
							2,4-Dimethylphenol	0.19 ug/mL
							2,4-Dinitrophenol	0.38 ug/mL
							2,4-Dinitrotoluene	0.19 ug/mL
							2,6-Dichlorophenol	0.19 ug/mL
							2,6-Dinitrotoluene	0.19 ug/mL
							2-Chloronaphthalene	0.19 ug/mL
							2-Chlorophenol	0.19 ug/mL
							2-Methylnaphthalene	0.19 ug/mL
							2-Nitroaniline	0.19 ug/mL
							2-Nitrophenol	0.19 ug/mL
							3-Nitroaniline	0.19 ug/mL
							4,6-Dinitro-2-methylphenol	0.38 ug/mL
							4-Bromophenyl phenyl ether	0.19 ug/mL
							4-Chloro-3-methylphenol	0.19 ug/mL
							4-Chloroaniline	0.19 ug/mL
							4-Chlorophenyl phenyl ether	0.19 ug/mL
							4-Nitroaniline	0.19 ug/mL
							4-Nitrophenol	0.38 ug/mL
							Acenaphthene	0.19 ug/mL
							Acenaphthylene	0.19 ug/mL
							Acetophenone	0.19 ug/mL
							Aniline	0.19 ug/mL
							Anthracene	0.19 ug/mL
							Azobenzene	0.19 ug/mL
							Benzo[a]anthracene	0.19 ug/mL
							Benzo[a]pyrene	0.19 ug/mL
							Benzo[b]fluoranthene	0.19 ug/mL
							Benzo[g,h,i]perylene	0.19 ug/mL
							Benzo[k]fluoranthene	0.19 ug/mL
							Benzyl alcohol	0.19 ug/mL
							Bis (2-chloroethoxy)methane	0.19 ug/mL
							Bis (2-chloroethyl) ether	0.19 ug/mL
							Bis (2-ethylhexyl) phthalate	0.19 ug/mL
							Butyl benzyl phthalate	0.19 ug/mL
							Carbazole	0.19 ug/mL
							Chrysene	0.19 ug/mL
							Di-n-butyl phthalate	0.19 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-octyl phthalate	0.19 ug/mL
							Dibenz(a,h)anthracene	0.19 ug/mL
							Dibenzofuran	0.19 ug/mL
							Diethyl phthalate	0.19 ug/mL
							Dimethyl phthalate	0.19 ug/mL
							Fluoranthene	0.19 ug/mL
							Fluorene	0.19 ug/mL
							Hexachlorobenzene	0.19 ug/mL
							Hexachlorobutadiene	0.19 ug/mL
							Hexachlorocyclopentadiene	0.19 ug/mL
							Hexachloroethane	0.19 ug/mL
							Hexadecane	0.19 ug/mL
							Indeno[1,2,3-cd]pyrene	0.19 ug/mL
							Isophorone	0.19 ug/mL
							m & p-Cresol	0.19 ug/mL
							n-Decane	0.19 ug/mL
							N-Nitrosodi-n-propylamine	0.19 ug/mL
							N-Nitrosodimethylamine	0.19 ug/mL
							N-Nitrosodiphenylamine	0.19 ug/mL
							n-Octadecane	0.19 ug/mL
							Naphthalene	0.19 ug/mL
							Nitrobenzene	0.19 ug/mL
							o-Cresol	0.19 ug/mL
							Pentachlorophenol	0.38 ug/mL
							Phenanthrene	0.19 ug/mL
							Phenol	0.19 ug/mL
							Pyrene	0.19 ug/mL
							Pyridine	0.38 ug/mL
							Atrazine	0.19 ug/mL
							Benzaldehyde	0.19 ug/mL
							Caprolactam	0.19 ug/mL
							3,3'-Dichlorobenzidine	0.19 ug/mL
							Benzidine	0.19 ug/mL
							2,4,6-Tribromophenol (Surr)	0.19 ug/mL
							2-Fluorobiphenyl	0.19 ug/mL
							2-Fluorophenol (Surr)	0.19 ug/mL
							Nitrobenzene-d5 (Surr)	0.19 ug/mL
							Phenol-d5 (Surr)	0.19 ug/mL
							Terphenyl-d14 (Surr)	0.19 ug/mL
							Methyl methanesulfonate	0.19 ug/mL
							N-Nitrosopyrrolidine	0.19 ug/mL
.SVTAPITINTRNi_00027	03/24/22	03/24/21	MeCl2, Lot 4096202	25 mL	SVLVIntstd_00012	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
..SVLVIntstd_00012	03/31/25		Restek, Lot A0159166		(Purchased Reagent)		Phenanthrene-d10	400 ug/mL
							1,4-Dichlorobenzene-d4	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.SVTAPITSTCKi_00030	01/06/22	07/06/21	MeCl2, Lot 4275032	20 mL			Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
					SV LIST3/STD1_00005	400 uL	Benzo[e]pyrene	40 ug/mL
					SV LST1/STD10_00005	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SV2356TCPs_00005	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00009	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00014	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLIST1/STD1_00008	800 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Anthracene	40 ug/mL
							Azobenzene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis (2-chloroethoxy)methane	40 ug/mL
							Bis (2-chloroethyl) ether	40 ug/mL
							Bis (2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz (a,h) anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							m & p-Cresol	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							o-Cresol	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
					SVLIST1/STD11_00006	400 uL	Atrazine	40 ug/mL
					SVLIST1/STD9_00008	400 uL	Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SVLVSURSPK_00014	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					svmethylmetha_00013	800 uL	Methyl methanesulfonate	40 ug/mL
					SVNNITROPYROS_00020	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..SV LIST3/STD1_00005	05/31/22		Restek, Lot a0149278		(Purchased Reagent)		Benzo[e]pyrene	2000 ug/mL
..SV LST1/STD10_00005	03/31/22		Restek, Lot A0164214		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SV2356TCPs_00005	03/02/23		Absolute, Lot 030218		(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00009	11/19/22		Ultra Scientific, Lot Cs-5614		(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00014	05/31/22		Absolute, Lot 053116		(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLIST1/STD1_00008	07/31/22		Restek, Lot A0168059		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis (2-chloroethoxy)methane	1000 ug/mL
							Bis (2-chloroethyl) ether	1000 ug/mL
							Bis (2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz (a,h) anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							m & p-Cresol	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							o-Cresol	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..SVLIST1/STD11_00006	03/31/22		Restek, Lot A0164387		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Caprolactam	2000 ug/mL
..SVLIST1/STD9_00008	02/28/22		Restek, Lot A0164053		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SVLVSURSPK_00014	09/30/25		Restek, Lot A0164104		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethylmetha_00013	03/27/22		Absolute, Lot 032717		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROS_00020	11/06/22		absolute, Lot 110618		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD10i_00447	12/25/21	12/18/21	MeCl2, Lot 4498350	1 mL	SVTAPITINTRNi_00027	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00030	125 uL	Benzo[e]pyrene	5 ug/mL
							Benzoic acid	5 ug/mL
							Indene	5 ug/mL
							2,3,5,6-Tetrachlorophenol	5 ug/mL
							2-Naphthylamine	5 ug/mL
							7,12-Dimethylbenz(a)anthracene	5 ug/mL
							1,1'-Biphenyl	5 ug/mL
							1,2,4,5-Tetrachlorobenzene	5 ug/mL
							1,2,4-Trichlorobenzene	5 ug/mL
							1,2-Dichlorobenzene	5 ug/mL
							1,2-Diphenylhydrazine	5 ug/mL
							1,3-Dichlorobenzene	5 ug/mL
							1,3-Dinitrobenzene	5 ug/mL
							1,4-Dichlorobenzene	5 ug/mL
							1,4-Dioxane	5 ug/mL
							1-Methylnaphthalene	5 ug/mL
							2,2'-oxybis[1-chloropropane]	5 ug/mL
							2,3,4,6-Tetrachlorophenol	5 ug/mL
							2,4,5-Trichlorophenol	5 ug/mL
							2,4,6-Trichlorophenol	5 ug/mL
							2,4-Dichlorophenol	5 ug/mL
							2,4-Dimethylphenol	5 ug/mL
							2,4-Dinitrophenol	10 ug/mL
							2,4-Dinitrotoluene	5 ug/mL
							2,6-Dichlorophenol	5 ug/mL
							2,6-Dinitrotoluene	5 ug/mL
							2-Chloronaphthalene	5 ug/mL
							2-Chlorophenol	5 ug/mL
							2-Methylnaphthalene	5 ug/mL
							2-Nitroaniline	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitrophenol	5 ug/mL
							3-Nitroaniline	5 ug/mL
							4,6-Dinitro-2-methylphenol	10 ug/mL
							4-Bromophenyl phenyl ether	5 ug/mL
							4-Chloro-3-methylphenol	5 ug/mL
							4-Chloroaniline	5 ug/mL
							4-Chlorophenyl phenyl ether	5 ug/mL
							4-Nitroaniline	5 ug/mL
							4-Nitrophenol	10 ug/mL
							Acenaphthene	5 ug/mL
							Acenaphthylene	5 ug/mL
							Acetophenone	5 ug/mL
							Aniline	5 ug/mL
							Anthracene	5 ug/mL
							Azobenzene	5 ug/mL
							Benzo[a]anthracene	5 ug/mL
							Benzo[a]pyrene	5 ug/mL
							Benzo[b]fluoranthene	5 ug/mL
							Benzo[g,h,i]perylene	5 ug/mL
							Benzo[k]fluoranthene	5 ug/mL
							Benzyl alcohol	5 ug/mL
							Bis (2-chloroethoxy)methane	5 ug/mL
							Bis (2-chloroethyl) ether	5 ug/mL
							Bis (2-ethylhexyl) phthalate	5 ug/mL
							Butyl benzyl phthalate	5 ug/mL
							Carbazole	5 ug/mL
							Chrysene	5 ug/mL
							Di-n-butyl phthalate	5 ug/mL
							Di-n-octyl phthalate	5 ug/mL
							Dibenz (a,h) anthracene	5 ug/mL
							Dibenzofuran	5 ug/mL
							Diethyl phthalate	5 ug/mL
							Dimethyl phthalate	5 ug/mL
							Fluoranthene	5 ug/mL
							Fluorene	5 ug/mL
							Hexachlorobenzene	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Hexachlorocyclopentadiene	5 ug/mL
							Hexachloroethane	5 ug/mL
							Hexadecane	5 ug/mL
							Indeno[1,2,3-cd]pyrene	5 ug/mL
							Isophorone	5 ug/mL
							m & p-Cresol	5 ug/mL
							n-Decane	5 ug/mL
							N-Nitrosodi-n-propylamine	5 ug/mL
							N-Nitrosodimethylamine	5 ug/mL
							N-Nitrosodiphenylamine	5 ug/mL
							n-Octadecane	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	5 ug/mL
							Nitrobenzene	5 ug/mL
							o-Cresol	5 ug/mL
							Pentachlorophenol	10 ug/mL
							Phenanthrene	5 ug/mL
							Phenol	5 ug/mL
							Pyrene	5 ug/mL
							Pyridine	10 ug/mL
							Atrazine	5 ug/mL
							Benzaldehyde	5 ug/mL
							Caprolactam	5 ug/mL
							3,3'-Dichlorobenzidine	5 ug/mL
							Benzidine	5 ug/mL
							2,4,6-Tribromophenol (Surr)	5 ug/mL
							2-Fluorobiphenyl	5 ug/mL
							2-Fluorophenol (Surr)	5 ug/mL
							Nitrobenzene-d5 (Surr)	5 ug/mL
							Phenol-d5 (Surr)	5 ug/mL
							Terphenyl-d14 (Surr)	5 ug/mL
							Methyl methanesulfonate	5 ug/mL
							N-Nitrosopyrrolidine	5 ug/mL
.SVTAPITINTRNi_00027	03/24/22	03/24/21	MeCl2, Lot 4096202	25 mL	SVLVIntstd_00012	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00012	03/31/25		Restek, Lot A0159166		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SVTAPITSTCKi_00030	01/06/22	07/06/21	MeCl2, Lot 4275032	20 mL	SV LIST3/STD1_00005	400 uL	Benzo[e]pyrene	40 ug/mL
					SV LST1/STD10_00005	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SV2356TCPs_00005	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00009	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00014	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLIST1/STD1_00008	800 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Azobenzene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh

Job No.: 180-132081-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							m & p-Cresol	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							o-Cresol	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
					SVLIST1/STD11_00006	400 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLIST1/STD9_00008	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURSPK_00014	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					svmethylnmetha_00013	800 uL	Methyl methanesulfonate	40 ug/mL
					SVNNITROPYROS_00020	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..SV LIST3/STD1_00005	05/31/22		Restek, Lot a0149278		(Purchased Reagent)		Benzo[e]pyrene	2000 ug/mL
..SV LST1/STD10_00005	03/31/22		Restek, Lot A0164214		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SV2356TCPs_00005	03/02/23		Absolute, Lot 030218		(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00009	11/19/22		Ultra Scientific, Lot Cs-5614		(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00014	05/31/22		Absolute, Lot 053116		(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLIST1/STD1_00008	07/31/22		Restek, Lot A0168059		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							m & p-Cresol	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							o-Cresol	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..SVLIST1/STD11_00006	03/31/22		Restek, Lot A0164387		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
..SVLIST1/STD9_00008	02/28/22		Restek, Lot A0164053		(Purchased Reagent)		Caprolactam	2000 ug/mL
							3,3'-Dichlorobenzidine	2000 ug/mL
..SVLVSURSPK_00014	09/30/25		Restek, Lot A0164104		(Purchased Reagent)		Benzidine	2000 ug/mL
							2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethyImetha_00013	03/27/22		Absolute, Lot 032717		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROS_00020	11/06/22		absolute, Lot 110618		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD10i_00451	01/19/22	01/12/22	MeCl2, Lot 4498350	1 mL	SVTAPITINTRNi_00029	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
.SVTAPITINTRNi_00029	12/16/22	12/16/21	MeCl2, Lot 4498350	25 mL	SVLVIntstd_00012	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00012	03/31/25		Restek, Lot A0159166		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
SVTAPSTD10i_00451	01/19/22	01/12/22	MeCl2, Lot 4498350	1 mL	SVTAPITSTCKi_00031	125 uL	1,4-Dichlorobenzene	5 ug/mL
							2,4,5-Trichlorophenol	5 ug/mL
							2,4,6-Trichlorophenol	5 ug/mL
							2,4-Dinitrotoluene	5 ug/mL
							Cresols, Total	10 ug/mL
							Hexachlorobenzene	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Hexachloroethane	5 ug/mL
							m & p-Cresol	5 ug/mL
							Nitrobenzene	5 ug/mL
							o-Cresol	5 ug/mL
							Pentachlorophenol	10 ug/mL
							Pyridine	10 ug/mL
							2,4,6-Tribromophenol (Surr)	5 ug/mL
							2-Fluorobiphenyl	5 ug/mL
							2-Fluorophenol (Surr)	5 ug/mL
							Nitrobenzene-d5 (Surr)	5 ug/mL
							Phenol-d5 (Surr)	5 ug/mL
							Terphenyl-d14 (Surr)	5 ug/mL
.SVTAPITSTCKi_00031	07/04/22	01/04/22	MeCl2, Lot 4498350	20 mL	SVLIST1/STD1_00008	800 uL	1,4-Dichlorobenzene	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							Cresols, Total	80 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							m & p-Cresol	40 ug/mL
							Nitrobenzene	40 ug/mL
							o-Cresol	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Pyridine	80 ug/mL
					SVLVSURSPK_00014	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..SVLIST1/STD1_00008	07/31/22		Restek, Lot A0168059		(Purchased Reagent)		1,4-Dichlorobenzene	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							Cresols, Total	2000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							m & p-Cresol	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							o-Cresol	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Pyridine	2000 ug/mL
..SVLVSURSPK_00014	09/30/25		Restek, Lot A0164104		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SVTAPSTD2.0i_00026	01/06/22	07/06/21	MeCl2, Lot 4275032	1 mL	SVTAPITINTRNi_00027		1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00030		Benzo[e]pyrene	1 ug/mL
							Benzoic acid	1 ug/mL
							Indene	1 ug/mL
							2,3,5,6-Tetrachlorophenol	1 ug/mL
							2-Naphthylamine	1 ug/mL
							7,12-Dimethylbenz(a)anthracene	1 ug/mL
							1,1'-Biphenyl	1 ug/mL
							1,2,4,5-Tetrachlorobenzene	1 ug/mL
							1,2,4-Trichlorobenzene	1 ug/mL
							1,2-Dichlorobenzene	1 ug/mL
							1,2-Diphenylhydrazine	1 ug/mL
							1,3-Dichlorobenzene	1 ug/mL
							1,3-Dinitrobenzene	1 ug/mL
							1,4-Dichlorobenzene	1 ug/mL
							1,4-Dioxane	1 ug/mL
							1-Methylnaphthalene	1 ug/mL
							2,2'-oxybis[1-chloropropane]	1 ug/mL
							2,3,4,6-Tetrachlorophenol	1 ug/mL
							2,4,5-Trichlorophenol	1 ug/mL
							2,4,6-Trichlorophenol	1 ug/mL
							2,4-Dichlorophenol	1 ug/mL
							2,4-Dimethylphenol	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrophenol	2 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dichlorophenol	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL
							2-Chloronaphthalene	1 ug/mL
							2-Chlorophenol	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							2-Nitroaniline	1 ug/mL
							2-Nitrophenol	1 ug/mL
							3-Nitroaniline	1 ug/mL
							4,6-Dinitro-2-methylphenol	2 ug/mL
							4-Bromophenyl phenyl ether	1 ug/mL
							4-Chloro-3-methylphenol	1 ug/mL
							4-Chloroaniline	1 ug/mL
							4-Chlorophenyl phenyl ether	1 ug/mL
							4-Nitroaniline	1 ug/mL
							4-Nitrophenol	2 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL
							Acetophenone	1 ug/mL
							Aniline	1 ug/mL
							Anthracene	1 ug/mL
							Azobenzene	1 ug/mL
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[g,h,i]perylene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Benzyl alcohol	1 ug/mL
							Bis (2-chloroethoxy)methane	1 ug/mL
							Bis (2-chloroethyl) ether	1 ug/mL
							Bis (2-ethylhexyl) phthalate	1 ug/mL
							Butyl benzyl phthalate	1 ug/mL
							Carbazole	1 ug/mL
							Chrysene	1 ug/mL
							Di-n-butyl phthalate	1 ug/mL
							Di-n-octyl phthalate	1 ug/mL
							Dibenz (a,h) anthracene	1 ug/mL
							Dibenzofuran	1 ug/mL
							Diethyl phthalate	1 ug/mL
							Dimethyl phthalate	1 ug/mL
							Fluoranthene	1 ug/mL
							Fluorene	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Hexachlorobutadiene	1 ug/mL
							Hexachlorocyclopentadiene	1 ug/mL
							Hexachloroethane	1 ug/mL
							Hexadecane	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							Isophorone	1 ug/mL
							m & p-Cresol	1 ug/mL
							n-Decane	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							N-Nitrosodimethylamine	1 ug/mL
							N-Nitrosodiphenylamine	1 ug/mL
							n-Octadecane	1 ug/mL
							Naphthalene	1 ug/mL
							Nitrobenzene	1 ug/mL
							o-Cresol	1 ug/mL
							Pentachlorophenol	2 ug/mL
							Phenanthrene	1 ug/mL
							Phenol	1 ug/mL
							Pyrene	1 ug/mL
							Pyridine	2 ug/mL
							Atrazine	1 ug/mL
							Benzaldehyde	1 ug/mL
							Caprolactam	1 ug/mL
							3,3'-Dichlorobenzidine	1 ug/mL
							Benzidine	1 ug/mL
							2,4,6-Tribromophenol (Surr)	1 ug/mL
							2-Fluorobiphenyl	1 ug/mL
							2-Fluorophenol (Surr)	1 ug/mL
							Nitrobenzene-d5 (Surr)	1 ug/mL
							Phenol-d5 (Surr)	1 ug/mL
							Terphenyl-d14 (Surr)	1 ug/mL
							Methyl methanesulfonate	1 ug/mL
							N-Nitrosopyrrolidine	1 ug/mL
.SVTAPITINTRNi_00027	03/24/22	03/24/21	MeCl2, Lot 4096202	25 mL	SVLVIntstd_00012	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00012	03/31/25		Restek, Lot A0159166		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SVTAPITSTCKi_00030	01/06/22	07/06/21	MeCl2, Lot 4275032	20 mL	SV LIST3/STD1_00005	400 uL	Benzo[e]pyrene	40 ug/mL
					SV LST1/STD10_00005	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SV2356TCPs_00005	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00009	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00014	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLIST1/STD1_00008	800 uL	1,1'-Biphenyl	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Azobenzene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							m & p-Cresol	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							o-Cresol	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
					SVLIST1/STD11_00006	400 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLIST1/STD9_00008	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURSPK_00014	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					svmethylnmetha_00013	800 uL	Methyl methanesulfonate	40 ug/mL
					SVNNITROPYROS_00020	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..SV LIST3/STD1_00005	05/31/22		Restek, Lot a0149278		(Purchased Reagent)		Benzo[e]pyrene	2000 ug/mL
..SV LST1/STD10_00005	03/31/22		Restek, Lot A0164214		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SV2356TCPs_00005	03/02/23		Absolute, Lot 030218		(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..SV2NAPAMINEs_00009	11/19/22		Ultra Scientific, Lot Cs-5614		(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00014	05/31/22		Absolute, Lot 053116		(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLIST1/STD1_00008	07/31/22		Restek, Lot A0168059		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis (2-chloroethyl) ether	1000 ug/mL
							Bis (2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz (a,h) anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							m & p-Cresol	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							o-Cresol	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..SVLIST1/STD11_00006	03/31/22	Restek, Lot A0164387			(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLIST1/STD9_00008	02/28/22	Restek, Lot A0164053			(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SVLVSRSPK_00014	09/30/25	Restek, Lot A0164104			(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethyImetha_00013	03/27/22	Absolute, Lot 032717			(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROS_00020	11/06/22	absolute, Lot 110618			(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SVTAPSTD20i_00022	01/06/22	07/06/21	MeCl2, Lot 4275032	1 mL	SVTAPITINTRNi_00027	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00030	250 uL	Benzo[e]pyrene	10 ug/mL
							Benzoic acid	10 ug/mL
							Indene	10 ug/mL
							2,3,5,6-Tetrachlorophenol	10 ug/mL
							2-Naphthylamine	10 ug/mL
							7,12-Dimethylbenz(a)anthracene	10 ug/mL
							1,1'-Biphenyl	10 ug/mL
							1,2,4,5-Tetrachlorobenzene	10 ug/mL
							1,2,4-Trichlorobenzene	10 ug/mL
							1,2-Dichlorobenzene	10 ug/mL
							1,2-Diphenylhydrazine	10 ug/mL
							1,3-Dichlorobenzene	10 ug/mL
							1,3-Dinitrobenzene	10 ug/mL
							1,4-Dichlorobenzene	10 ug/mL
							1,4-Dioxane	10 ug/mL
							1-Methylnaphthalene	10 ug/mL
							2,2'-oxybis[1-chloropropane]	10 ug/mL
							2,3,4,6-Tetrachlorophenol	10 ug/mL
							2,4,5-Trichlorophenol	10 ug/mL
							2,4,6-Trichlorophenol	10 ug/mL
							2,4-Dichlorophenol	10 ug/mL
							2,4-Dimethylphenol	10 ug/mL
							2,4-Dinitrophenol	20 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							2,6-Dichlorophenol	10 ug/mL
							2,6-Dinitrotoluene	10 ug/mL
							2-Chloronaphthalene	10 ug/mL
							2-Chlorophenol	10 ug/mL
							2-Methylnaphthalene	10 ug/mL
							2-Nitroaniline	10 ug/mL
							2-Nitrophenol	10 ug/mL
							3-Nitroaniline	10 ug/mL
							4,6-Dinitro-2-methylphenol	20 ug/mL
							4-Bromophenyl phenyl ether	10 ug/mL
							4-Chloro-3-methylphenol	10 ug/mL
							4-Chloroaniline	10 ug/mL
							4-Chlorophenyl phenyl ether	10 ug/mL
							4-Nitroaniline	10 ug/mL
							4-Nitrophenol	20 ug/mL
							Acenaphthene	10 ug/mL
							Acenaphthylene	10 ug/mL
							Acetophenone	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Aniline	10 ug/mL
							Anthracene	10 ug/mL
							Azobenzene	10 ug/mL
							Benzo[a]anthracene	10 ug/mL
							Benzo[a]pyrene	10 ug/mL
							Benzo[b]fluoranthene	10 ug/mL
							Benzo[g,h,i]perylene	10 ug/mL
							Benzo[k]fluoranthene	10 ug/mL
							Benzyl alcohol	10 ug/mL
							Bis (2-chloroethoxy)methane	10 ug/mL
							Bis (2-chloroethyl) ether	10 ug/mL
							Bis (2-ethylhexyl) phthalate	10 ug/mL
							Butyl benzyl phthalate	10 ug/mL
							Carbazole	10 ug/mL
							Chrysene	10 ug/mL
							Di-n-butyl phthalate	10 ug/mL
							Di-n-octyl phthalate	10 ug/mL
							Dibenz (a,h) anthracene	10 ug/mL
							Dibenzofuran	10 ug/mL
							Diethyl phthalate	10 ug/mL
							Dimethyl phthalate	10 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Hexachlorobenzene	10 ug/mL
							Hexachlorobutadiene	10 ug/mL
							Hexachlorocyclopentadiene	10 ug/mL
							Hexachloroethane	10 ug/mL
							Hexadecane	10 ug/mL
							Indeno[1,2,3-cd]pyrene	10 ug/mL
							Isophorone	10 ug/mL
							m & p-Cresol	10 ug/mL
							n-Decane	10 ug/mL
							N-Nitrosodi-n-propylamine	10 ug/mL
							N-Nitrosodimethylamine	10 ug/mL
							N-Nitrosodiphenylamine	10 ug/mL
							n-Octadecane	10 ug/mL
							Naphthalene	10 ug/mL
							Nitrobenzene	10 ug/mL
							o-Cresol	10 ug/mL
							Pentachlorophenol	20 ug/mL
							Phenanthrene	10 ug/mL
							Phenol	10 ug/mL
							Pyrene	10 ug/mL
							Pyridine	20 ug/mL
							Atrazine	10 ug/mL
							Benzaldehyde	10 ug/mL
							Caprolactam	10 ug/mL
							3,3'-Dichlorobenzidine	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzidine	10 ug/mL
							2,4,6-Tribromophenol (Surr)	10 ug/mL
							2-Fluorobiphenyl	10 ug/mL
							2-Fluorophenol (Surr)	10 ug/mL
							Nitrobenzene-d5 (Surr)	10 ug/mL
							Phenol-d5 (Surr)	10 ug/mL
							Terphenyl-d14 (Surr)	10 ug/mL
							Methyl methanesulfonate	10 ug/mL
							N-Nitrosopyrrolidine	10 ug/mL
.SVTAPITINTRNi_00027	03/24/22	03/24/21	MeCl2, Lot 4096202	25 mL	SVLVIntstd_00012	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00012	03/31/25		Restek, Lot A0159166		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SVTAPITSTCKi_00030	01/06/22	07/06/21	MeCl2, Lot 4275032	20 mL	SV LIST3/STD1_00005	400 uL	Benzo[e]pyrene	40 ug/mL
					SV LST1/STD10_00005	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SV2356TCPs_00005	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00009	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00014	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLIST1/STD1_00008	800 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Azobenzene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							m & p-Cresol	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh

Job No.: 180-132081-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							o-Cresol	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
					SVLIST1/STD11_00006	400 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLIST1/STD9_00008	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURSPK_00014	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					svmethylnmetha_00013	800 uL	Methyl methanesulfonate	40 ug/mL
					SVNNITROPYROS_00020	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..SV LIST3/STD1_00005	05/31/22		Restek, Lot a0149278		(Purchased Reagent)		Benzo[e]pyrene	2000 ug/mL
..SV LST1/STD10_00005	03/31/22		Restek, Lot A0164214		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SV2356TCPS_00005	03/02/23		Absolute, Lot 030218		(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00009	11/19/22		Ultra Scientific, Lot Cs-5614		(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00014	05/31/22		Absolute, Lot 053116		(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLIST1/STD1_00008	07/31/22		Restek, Lot A0168059		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis (2-chloroethoxy)methane	1000 ug/mL
							Bis (2-chloroethyl) ether	1000 ug/mL
							Bis (2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz (a,h) anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m & p-Cresol	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							o-Cresol	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..SVLIST1/STD11_00006	03/31/22		Restek, Lot A0164387		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
..SVLIST1/STD9_00008	02/28/22		Restek, Lot A0164053		(Purchased Reagent)		Caprolactam	2000 ug/mL
							3,3'-Dichlorobenzidine	2000 ug/mL
..SVLVSURSPK_00014	09/30/25		Restek, Lot A0164104		(Purchased Reagent)		Benzidine	2000 ug/mL
							2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethyImetha_00013	03/27/22		Absolute, Lot 032717		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROS_00020	11/06/22		absolute, Lot 110618		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD4.0i_00024	01/06/22	07/06/21	MeCl2, Lot 4275032	1 mL	SVTAPITINTRNi_00027	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00030	50 uL	Benzo[e]pyrene	2 ug/mL
							Benzoic acid	2 ug/mL
							Indene	2 ug/mL
							2,3,5,6-Tetrachlorophenol	2 ug/mL
							2-Naphthylamine	2 ug/mL
							7,12-Dimethylbenz(a)anthracene	2 ug/mL
							1,1'-Biphenyl	2 ug/mL
							1,2,4,5-Tetrachlorobenzene	2 ug/mL
							1,2,4-Trichlorobenzene	2 ug/mL
							1,2-Dichlorobenzene	2 ug/mL
							1,2-Diphenylhydrazine	2 ug/mL
							1,3-Dichlorobenzene	2 ug/mL
							1,3-Dinitrobenzene	2 ug/mL
							1,4-Dichlorobenzene	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dioxane	2 ug/mL
							1-Methylnaphthalene	2 ug/mL
							2,2'-oxybis[1-chloropropane]	2 ug/mL
							2,3,4,6-Tetrachlorophenol	2 ug/mL
							2,4,5-Trichlorophenol	2 ug/mL
							2,4,6-Trichlorophenol	2 ug/mL
							2,4-Dichlorophenol	2 ug/mL
							2,4-Dimethylphenol	2 ug/mL
							2,4-Dinitrophenol	4 ug/mL
							2,4-Dinitrotoluene	2 ug/mL
							2,6-Dichlorophenol	2 ug/mL
							2,6-Dinitrotoluene	2 ug/mL
							2-Chloronaphthalene	2 ug/mL
							2-Chlorophenol	2 ug/mL
							2-Methylnaphthalene	2 ug/mL
							2-Nitroaniline	2 ug/mL
							2-Nitrophenol	2 ug/mL
							3-Nitroaniline	2 ug/mL
							4,6-Dinitro-2-methylphenol	4 ug/mL
							4-Bromophenyl phenyl ether	2 ug/mL
							4-Chloro-3-methylphenol	2 ug/mL
							4-Chloroaniline	2 ug/mL
							4-Chlorophenyl phenyl ether	2 ug/mL
							4-Nitroaniline	2 ug/mL
							4-Nitrophenol	4 ug/mL
							Acenaphthene	2 ug/mL
							Acenaphthylene	2 ug/mL
							Acetophenone	2 ug/mL
							Aniline	2 ug/mL
							Anthracene	2 ug/mL
							Azobenzene	2 ug/mL
							Benzo[a]anthracene	2 ug/mL
							Benzo[a]pyrene	2 ug/mL
							Benzo[b]fluoranthene	2 ug/mL
							Benzo[g,h,i]perylene	2 ug/mL
							Benzo[k]fluoranthene	2 ug/mL
							Benzyl alcohol	2 ug/mL
							Bis (2-chloroethoxy)methane	2 ug/mL
							Bis (2-chloroethyl) ether	2 ug/mL
							Bis (2-ethylhexyl) phthalate	2 ug/mL
							Butyl benzyl phthalate	2 ug/mL
							Carbazole	2 ug/mL
							Chrysene	2 ug/mL
							Di-n-butyl phthalate	2 ug/mL
							Di-n-octyl phthalate	2 ug/mL
							Dibenz (a,h) anthracene	2 ug/mL
							Dibenzofuran	2 ug/mL
							Diethyl phthalate	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dimethyl phthalate	2 ug/mL
							Fluoranthene	2 ug/mL
							Fluorene	2 ug/mL
							Hexachlorobenzene	2 ug/mL
							Hexachlorobutadiene	2 ug/mL
							Hexachlorocyclopentadiene	2 ug/mL
							Hexachloroethane	2 ug/mL
							Hexadecane	2 ug/mL
							Indeno[1,2,3-cd]pyrene	2 ug/mL
							Isophorone	2 ug/mL
							m & p-Cresol	2 ug/mL
							n-Decane	2 ug/mL
							N-Nitrosodi-n-propylamine	2 ug/mL
							N-Nitrosodimethylamine	2 ug/mL
							N-Nitrosodiphenylamine	2 ug/mL
							n-Octadecane	2 ug/mL
							Naphthalene	2 ug/mL
							Nitrobenzene	2 ug/mL
							o-Cresol	2 ug/mL
							Pentachlorophenol	4 ug/mL
							Phenanthrene	2 ug/mL
							Phenol	2 ug/mL
							Pyrene	2 ug/mL
							Pyridine	4 ug/mL
							Atrazine	2 ug/mL
							Benzaldehyde	2 ug/mL
							Caprolactam	2 ug/mL
							3,3'-Dichlorobenzidine	2 ug/mL
							Benzidine	2 ug/mL
							2,4,6-Tribromophenol (Surr)	2 ug/mL
							2-Fluorobiphenyl	2 ug/mL
							2-Fluorophenol (Surr)	2 ug/mL
							Nitrobenzene-d5 (Surr)	2 ug/mL
							Phenol-d5 (Surr)	2 ug/mL
							Terphenyl-d14 (Surr)	2 ug/mL
							Methyl methanesulfonate	2 ug/mL
							N-Nitrosopyrrolidine	2 ug/mL
.SVTAPITINTRNi_00027	03/24/22	03/24/21	MeCl2, Lot 4096202	25 mL	SVLVIntstd_00012	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
..SVLVIntstd_00012	03/31/25		Restek, Lot A0159166		(Purchased Reagent)		Phenanthrene-d10	400 ug/mL
							1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.SVTAPITSTCKi_00030	01/06/22	07/06/21	MeCl2, Lot 4275032	20 mL	SV LIST3/STD1_00005	400 uL	Phenanthrene-d10	2000 ug/mL
					SV LST1/STD10_00005	400 uL	Benzo[e]pyrene	40 ug/mL
							Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SV2356TCPs_00005	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00009	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00014	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLIST1/STD1_00008	800 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Azobenzene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis (2-chloroethoxy)methane	40 ug/mL
							Bis (2-chloroethyl)ether	40 ug/mL
							Bis (2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz (a, h) anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							m & p-Cresol	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							o-Cresol	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
					SVLIST1/STD11_00006	400 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
					SVLIST1/STD9_00008	400 uL	Benzidine	40 ug/mL
					SVLVSURSPK_00014	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh

Job No.: 180-132081-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					svmethylnmetha_00013	800 uL	Methyl methanesulfonate	40 ug/mL
					SVNNITROPYROS_00020	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..SV LIST3/STD1_00005	05/31/22		Restek, Lot a0149278		(Purchased Reagent)		Benzo[e]pyrene	2000 ug/mL
..SV LST1/STD10_00005	03/31/22		Restek, Lot A0164214		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SV2356TCPs_00005	03/02/23		Absolute, Lot 030218		(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00009	11/19/22		Ultra Scientific, Lot Cs-5614		(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00014	05/31/22		Absolute, Lot 053116		(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLIST1/STD1_00008	07/31/22		Restek, Lot A0168059		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis (2-chloroethoxy)methane	1000 ug/mL
							Bis (2-chloroethyl) ether	1000 ug/mL
							Bis (2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz (a,h) anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							m & p-Cresol	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							o-Cresol	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..SVLIST1/STD11_00006	03/31/22	Restek, Lot A0164387			(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLIST1/STD9_00008	02/28/22	Restek, Lot A0164053			(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzdine	2000 ug/mL
..SVLVSURSPK_00014	09/30/25	Restek, Lot A0164104			(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethylmetha_00013	03/27/22		Absolute, Lot 032717		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROS_00020	11/06/22		absolute, Lot 110618		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD40i_00022	01/06/22	07/06/21	MeCl2, Lot 4275032	1 mL	SVTAPITINTRNi_00027	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00030	500 uL	Benzo[e]pyrene	20 ug/mL
							Benzoic acid	20 ug/mL
							Indene	20 ug/mL
							2,3,5,6-Tetrachlorophenol	20 ug/mL
							2-Naphthylamine	20 ug/mL
							7,12-Dimethylbenz(a)anthracene	20 ug/mL
							1,1'-Biphenyl	20 ug/mL
							1,2,4,5-Tetrachlorobenzene	20 ug/mL
							1,2,4-Trichlorobenzene	20 ug/mL
							1,2-Dichlorobenzene	20 ug/mL
							1,2-Diphenylhydrazine	20 ug/mL
							1,3-Dichlorobenzene	20 ug/mL
							1,3-Dinitrobenzene	20 ug/mL
							1,4-Dichlorobenzene	20 ug/mL
							1,4-Dioxane	20 ug/mL
							1-Methylnaphthalene	20 ug/mL
							2,2'-oxybis[1-chloropropane]	20 ug/mL
							2,3,4,6-Tetrachlorophenol	20 ug/mL
							2,4,5-Trichlorophenol	20 ug/mL
							2,4,6-Trichlorophenol	20 ug/mL
							2,4-Dichlorophenol	20 ug/mL
							2,4-Dimethylphenol	20 ug/mL
							2,4-Dinitrophenol	40 ug/mL
							2,4-Dinitrotoluene	20 ug/mL
							2,6-Dichlorophenol	20 ug/mL
							2,6-Dinitrotoluene	20 ug/mL
							2-Chloronaphthalene	20 ug/mL
							2-Chlorophenol	20 ug/mL
							2-Methylnaphthalene	20 ug/mL
							2-Nitroaniline	20 ug/mL
							2-Nitrophenol	20 ug/mL
							3-Nitroaniline	20 ug/mL
							4,6-Dinitro-2-methylphenol	40 ug/mL
							4-Bromophenyl phenyl ether	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chloro-3-methylphenol	20 ug/mL
							4-Chloroaniline	20 ug/mL
							4-Chlorophenyl phenyl ether	20 ug/mL
							4-Nitroaniline	20 ug/mL
							4-Nitrophenol	40 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL
							Acetophenone	20 ug/mL
							Aniline	20 ug/mL
							Anthracene	20 ug/mL
							Azobenzene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Benzyl alcohol	20 ug/mL
							Bis (2-chloroethoxy)methane	20 ug/mL
							Bis (2-chloroethyl) ether	20 ug/mL
							Bis (2-ethylhexyl) phthalate	20 ug/mL
							Butyl benzyl phthalate	20 ug/mL
							Carbazole	20 ug/mL
							Chrysene	20 ug/mL
							Di-n-butyl phthalate	20 ug/mL
							Di-n-octyl phthalate	20 ug/mL
							Dibenz (a,h) anthracene	20 ug/mL
							Dibenzofuran	20 ug/mL
							Diethyl phthalate	20 ug/mL
							Dimethyl phthalate	20 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Hexachlorobenzene	20 ug/mL
							Hexachlorobutadiene	20 ug/mL
							Hexachlorocyclopentadiene	20 ug/mL
							Hexachloroethane	20 ug/mL
							Hexadecane	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Isophorone	20 ug/mL
							m & p-Cresol	20 ug/mL
							n-Decane	20 ug/mL
							N-Nitrosodi-n-propylamine	20 ug/mL
							N-Nitrosodimethylamine	20 ug/mL
							N-Nitrosodiphenylamine	20 ug/mL
							n-Octadecane	20 ug/mL
							Naphthalene	20 ug/mL
							Nitrobenzene	20 ug/mL
							o-Cresol	20 ug/mL
							Pentachlorophenol	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene	20 ug/mL
							Phenol	20 ug/mL
							Pyrene	20 ug/mL
							Pyridine	40 ug/mL
							Atrazine	20 ug/mL
							Benzaldehyde	20 ug/mL
							Caprolactam	20 ug/mL
							3,3'-Dichlorobenzidine	20 ug/mL
							Benzidine	20 ug/mL
							2,4,6-Tribromophenol (Surr)	20 ug/mL
							2-Fluorobiphenyl	20 ug/mL
							2-Fluorophenol (Surr)	20 ug/mL
							Nitrobenzene-d5 (Surr)	20 ug/mL
							Phenol-d5 (Surr)	20 ug/mL
							Terphenyl-d14 (Surr)	20 ug/mL
							Methyl methanesulfonate	20 ug/mL
							N-Nitrosopyrrolidine	20 ug/mL
.SVTAPITINTRNi_00027	03/24/22	03/24/21	MeCl2, Lot 4096202	25 mL	SVLVIntstd_00012	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00012	03/31/25		Restek, Lot A0159166		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SVTAPITSTCKi_00030	01/06/22	07/06/21	MeCl2, Lot 4275032	20 mL	SV LIST3/STD1_00005	400 uL	Benzo[e]pyrene	40 ug/mL
					SV LST1/STD10_00005	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SV2356TCPs_00005	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00009	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00014	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLIST1/STD1_00008	800 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Azobenzene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							m & p-Cresol	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							o-Cresol	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
					SVLIST1/STD11_00006	400 uL	Atrazine	40 ug/mL
					SVLIST1/STD9_00008	400 uL	Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVSURSPK_00014	160 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
							2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
					svmethylmetha_00013	800 uL	Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					SVNNITROPYROS_00020	800 uL	Methyl methanesulfonate	40 ug/mL
							N-Nitrosopyrrolidine	40 ug/mL
..SV LIST3/STD1_00005	05/31/22	Restek, Lot a0149278			(Purchased Reagent)		Benzo[e]pyrene	2000 ug/mL
..SV LST1/STD10_00005	03/31/22	Restek, Lot A0164214			(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SV2356TCPs_00005	03/02/23	Absolute, Lot 030218			(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00009	11/19/22	Ultra Scientific, Lot Cs-5614			(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00014	05/31/22	Absolute, Lot 053116			(Purchased Reagent)		7,12-Dimethylbenz (a) anthracene	1000 ug/mL
..SVLIST1/STD1_00008	07/31/22	Restek, Lot A0168059			(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis (2-chloroethoxy)methane	1000 ug/mL
							Bis (2-chloroethyl) ether	1000 ug/mL
							Bis (2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz (a,h) anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							m & p-Cresol	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							o-Cresol	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..SVLIST1/STD11_00006	03/31/22		Restek, Lot A0164387		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
..SVLIST1/STD9_00008	02/28/22		Restek, Lot A0164053		(Purchased Reagent)		Caprolactam	2000 ug/mL
							3,3'-Dichlorobenzidine	2000 ug/mL
..SVLVSPK_00014	09/30/25		Restek, Lot A0164104		(Purchased Reagent)		Benzidine	2000 ug/mL
							2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethyImetha_00013	03/27/22		Absolute, Lot 032717		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROS_00020	11/06/22		absolute, Lot 110618		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD60i_00022	01/06/22	07/06/21	MeCl2, Lot 4275032	1 mL	SVTAPITINTRNi_00027	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00030	750 uL	Benzo[e]pyrene	30 ug/mL
							Benzoic acid	30 ug/mL
							Indene	30 ug/mL
							2,3,5,6-Tetrachlorophenol	30 ug/mL
							2-Naphthylamine	30 ug/mL
							7,12-Dimethylbenz(a)anthracene	30 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1'-Biphenyl	30 ug/mL
							1,2,4,5-Tetrachlorobenzene	30 ug/mL
							1,2,4-Trichlorobenzene	30 ug/mL
							1,2-Dichlorobenzene	30 ug/mL
							1,2-Diphenylhydrazine	30 ug/mL
							1,3-Dichlorobenzene	30 ug/mL
							1,3-Dinitrobenzene	30 ug/mL
							1,4-Dichlorobenzene	30 ug/mL
							1,4-Dioxane	30 ug/mL
							1-Methylnaphthalene	30 ug/mL
							2,2'-oxybis[1-chloropropane]	30 ug/mL
							2,3,4,6-Tetrachlorophenol	30 ug/mL
							2,4,5-Trichlorophenol	30 ug/mL
							2,4,6-Trichlorophenol	30 ug/mL
							2,4-Dichlorophenol	30 ug/mL
							2,4-Dimethylphenol	30 ug/mL
							2,4-Dinitrophenol	60 ug/mL
							2,4-Dinitrotoluene	30 ug/mL
							2,6-Dichlorophenol	30 ug/mL
							2,6-Dinitrotoluene	30 ug/mL
							2-Chloronaphthalene	30 ug/mL
							2-Chlorophenol	30 ug/mL
							2-Methylnaphthalene	30 ug/mL
							2-Nitroaniline	30 ug/mL
							2-Nitrophenol	30 ug/mL
							3-Nitroaniline	30 ug/mL
							4,6-Dinitro-2-methylphenol	60 ug/mL
							4-Bromophenyl phenyl ether	30 ug/mL
							4-Chloro-3-methylphenol	30 ug/mL
							4-Chloroaniline	30 ug/mL
							4-Chlorophenyl phenyl ether	30 ug/mL
							4-Nitroaniline	30 ug/mL
							4-Nitrophenol	60 ug/mL
							Acenaphthene	30 ug/mL
							Acenaphthylene	30 ug/mL
							Acetophenone	30 ug/mL
							Aniline	30 ug/mL
							Anthracene	30 ug/mL
							Azobenzene	30 ug/mL
							Benzo[a]anthracene	30 ug/mL
							Benzo[a]pyrene	30 ug/mL
							Benzo[b]fluoranthene	30 ug/mL
							Benzo[g,h,i]perylene	30 ug/mL
							Benzo[k]fluoranthene	30 ug/mL
							Benzyl alcohol	30 ug/mL
							Bis (2-chloroethoxy)methane	30 ug/mL
							Bis (2-chloroethyl) ether	30 ug/mL
							Bis (2-ethylhexyl) phthalate	30 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh

Job No.: 180-132081-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Butyl benzyl phthalate	30 ug/mL
							Carbazole	30 ug/mL
							Chrysene	30 ug/mL
							Di-n-butyl phthalate	30 ug/mL
							Di-n-octyl phthalate	30 ug/mL
							Dibenz(a,h)anthracene	30 ug/mL
							Dibenzofuran	30 ug/mL
							Diethyl phthalate	30 ug/mL
							Dimethyl phthalate	30 ug/mL
							Fluoranthene	30 ug/mL
							Fluorene	30 ug/mL
							Hexachlorobenzene	30 ug/mL
							Hexachlorobutadiene	30 ug/mL
							Hexachlorocyclopentadiene	30 ug/mL
							Hexachloroethane	30 ug/mL
							Hexadecane	30 ug/mL
							Indeno[1,2,3-cd]pyrene	30 ug/mL
							Isophorone	30 ug/mL
							m & p-Cresol	30 ug/mL
							n-Decane	30 ug/mL
							N-Nitrosodi-n-propylamine	30 ug/mL
							N-Nitrosodimethylamine	30 ug/mL
							N-Nitrosodiphenylamine	30 ug/mL
							n-Octadecane	30 ug/mL
							Naphthalene	30 ug/mL
							Nitrobenzene	30 ug/mL
							o-Cresol	30 ug/mL
							Pentachlorophenol	60 ug/mL
							Phenanthrene	30 ug/mL
							Phenol	30 ug/mL
							Pyrene	30 ug/mL
							Pyridine	60 ug/mL
							Atrazine	30 ug/mL
							Benzaldehyde	30 ug/mL
							Caprolactam	30 ug/mL
							3,3'-Dichlorobenzidine	30 ug/mL
							Benzidine	30 ug/mL
							2,4,6-Tribromophenol (Surr)	30 ug/mL
							2-Fluorobiphenyl	30 ug/mL
							2-Fluorophenol (Surr)	30 ug/mL
							Nitrobenzene-d5 (Surr)	30 ug/mL
							Phenol-d5 (Surr)	30 ug/mL
							Terphenyl-d14 (Surr)	30 ug/mL
							Methyl methanesulfonate	30 ug/mL
							N-Nitrosopyrrolidine	30 ug/mL
.SVTAPITINTRNi_00027	03/24/22	03/24/21	MeCl2, Lot 4096202	25 mL	SVLVIntstd_00012	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00012	03/31/25	Restek, Lot A0159166			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SVTAPITSTCKi_00030	01/06/22	07/06/21	MeCl2, Lot 4275032	20 mL	SV LIST3/STD1_00005	400 uL	Benzo[e]pyrene	40 ug/mL
					SV LST1/STD10_00005	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SV2356TCPs_00005	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00009	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00014	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLIST1/STD1_00008	800 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Azobenzene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							m & p-Cresol	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							o-Cresol	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
					SVLIST1/STD11_00006	400 uL	Atrazine	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh

Job No.: 180-132081-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLIST1/STD9_00008	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURSPK_00014	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					svmethylnmetha_00013	800 uL	Methyl methanesulfonate	40 ug/mL
					SVNNITROPYROs_00020	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..SV LIST3/STD1_00005	05/31/22		Restek, Lot a0149278		(Purchased Reagent)		Benzo[e]pyrene	2000 ug/mL
..SV LST1/STD10_00005	03/31/22		Restek, Lot A0164214		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SV2356TCPs_00005	03/02/23		Absolute, Lot 030218		(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00009	11/19/22		Ultra Scientific, Lot Cs-5614		(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00014	05/31/22		Absolute, Lot 053116		(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLIST1/STD1_00008	07/31/22		Restek, Lot A0168059		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis (2-chloroethoxy)methane	1000 ug/mL
							Bis (2-chloroethyl) ether	1000 ug/mL
							Bis (2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz (a,h) anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							m & p-Cresol	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							o-Cresol	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..SVLIST1/STD11_00006	03/31/22		Restek, Lot A0164387		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLIST1/STD9_00008	02/28/22		Restek, Lot A0164053		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SVLVSURSPK_00014	09/30/25		Restek, Lot A0164104		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethyImetha_00013	03/27/22		Absolute, Lot 032717		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00020	11/06/22		absolute, Lot 110618		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD80i_00022	01/06/22	07/06/21	MeCl2, Lot 4275032	1 mL	SVTAPITINTRNi_00027	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00030	1000 uL	Benzo[e]pyrene	40 ug/mL
							Benzoic acid	40 ug/mL
							Indene	40 ug/mL
							2,3,5,6-Tetrachlorophenol	40 ug/mL
							2-Naphthylamine	40 ug/mL
							7,12-Dimethylbenz(a)anthracene	40 ug/mL
							1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Azobenzene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis (2-chloroethoxy)methane	40 ug/mL
							Bis (2-chloroethyl) ether	40 ug/mL
							Bis (2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz (a,h) anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							m & p-Cresol	40 ug/mL
							n-Decane	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							o-Cresol	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
							2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
							Methyl methanesulfonate	40 ug/mL
							N-Nitrosopyrrolidine	40 ug/mL
.SVTAPITINTRNi_00027	03/24/22	03/24/21	MeCl2, Lot 4096202	25 mL	SVLVIntstd_00012	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00012	03/31/25		Restek, Lot A0159166		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SVTAPITSTCKi_00030	01/06/22	07/06/21	MeCl2, Lot 4275032	20 mL	SV LIST3/STD1_00005	400 uL	Benzo[e]pyrene	40 ug/mL
					SV LST1/STD10_00005	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SV2356TCPs_00005	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00009	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00014	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLIST1/STD1_00008	800 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Azobenzene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh

Job No.: 180-132081-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenz (a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							m & p-Cresol	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							o-Cresol	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
					SVLIST1/STD11_00006	400 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLIST1/STD9_00008	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURSPK_00014	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					svmethylnmetha_00013	800 uL	Methyl methanesulfonate	40 ug/mL
					SVNNITROPYROS_00020	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..SV LIST3/STD1_00005	05/31/22		Restek, Lot a0149278		(Purchased Reagent)		Benzo[e]pyrene	2000 ug/mL
..SV LST1/STD10_00005	03/31/22		Restek, Lot A0164214		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SV2356TCPS_00005	03/02/23		Absolute, Lot 030218		(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00009	11/19/22		Ultra Scientific, Lot Cs-5614		(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00014	05/31/22		Absolute, Lot 053116		(Purchased Reagent)		7,12-Dimethylbenz (a) anthracene	1000 ug/mL
..SVLIST1/STD1_00008	07/31/22		Restek, Lot A0168059		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis (2-chloroethoxy)methane	1000 ug/mL
							Bis (2-chloroethyl) ether	1000 ug/mL
							Bis (2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz (a,h) anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							m & p-Cresol	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							o-Cresol	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..SVLIST1/STD11_00006	03/31/22	Restek, Lot A0164387			(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLIST1/STD9_00008	02/28/22	Restek, Lot A0164053			(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SVLVSURSPK_00014	09/30/25	Restek, Lot A0164104			(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethyImetha_00013	03/27/22	Absolute, Lot 032717			(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROS_00020	11/06/22	absolute, Lot 110618			(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
TA-SPIKE1_00017	03/09/23	CPI, Lot 1146438-1			(Purchased Reagent)		Arsenic	200 mg/L
							Barium	200 mg/L
							Be	100 mg/L
							Cadmium	100 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chromium	100 mg/L
							Co	100 mg/L
							Copper	100 mg/L
							Lead	100 mg/L
							Li	100 mg/L
							Mn	100 mg/L
							Molybdenum	100 mg/L
							Nickel	100 mg/L
							Selenium	200 mg/L
							Si	200 mg/L
							SiO2	428 mg/L
							Sn	200 mg/L
							Sr	100 mg/L
							Ti	100 mg/L
							Tl	200 mg/L
							V	100 mg/L
TA-SPIKE2_00014	03/09/23		CPI, Lot 1136606-1		(Purchased Reagent)		Al	1000 mg/L
							Ca	5000 mg/L
							Fe	1000 mg/L
							K	5000 mg/L
							Mg	5000 mg/L
							Na	5000 mg/L
TA-Spike3 INT_00011	06/29/23		CPI International, Lot 10100317-8		(Purchased Reagent)		B	250 mg/L
							Sb	50 mg/L
							Silver	50 mg/L
							Zinc	50 mg/L
VOA8260INT_00130	12/16/21	11/16/21	Methanol, Lot 4292562	10 mL	VOA8260INTRES_00191	1 mL	1,4-Dichlorobenzene-d4	25 ug/mL
.VOA8260INTRES_00191	01/31/26		Restek, Lot A0168626		(Purchased Reagent)		Chlorobenzene-d5	25 ug/mL
							Fluorobenzene (IS)	25 ug/mL
							TBA-d9 (IS)	500 ug/mL
							1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
VOA8260SURR_00128	12/22/21	11/22/21	Methanol, Lot 4292561	100 mL	VOA8260SURRES_00168	1 mL	Fluorobenzene (IS)	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL
							1,2-Dichloroethane-d4 (Surr)	25 ug/mL
							4-Bromofluorobenzene (Surr)	25 ug/mL
							Dibromofluoromethane (Surr)	25 ug/mL
.VOA8260SURRES_00168	01/31/25		Restek, Lot A0156891		(Purchased Reagent)		Toluene-d8 (Surr)	25 ug/mL
							1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VOA8260SURR_00129	01/22/22	12/22/21	Methanol, Lot 4292562	100 mL	VOA8260SURRES_00182	1 mL	1,2-Dichloroethane-d4 (Surr)	25 ug/mL
							4-Bromofluorobenzene (Surr)	25 ug/mL
							Dibromofluoromethane (Surr)	25 ug/mL
							Toluene-d8 (Surr)	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.VOA8260SURRES_00182	05/31/26		Restek, Lot A0172587		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VOA8260VOAPRI_00495	12/21/21	12/14/21	Methanol, Lot 4292562	10 mL	VOA8260GAS1ST_00361	0.1 mL	Bromomethane	25 ug/mL
							Butadiene	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Dichlorodifluoromethane	25 ug/mL
							Dichlorofluoromethane	25 ug/mL
					VOA8260VOAPRI_00493	1 mL	Trichlorofluoromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
							2-Butanone (MEK)	25 ug/mL
							2-Hexanone	25 ug/mL
							4-Methyl-2-pentanone (MIBK)	25 ug/mL
							Acetone	25 ug/mL
							1,1,1,2-Tetrachloroethane	25 ug/mL
							1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,1-Dichloropropene	25 ug/mL
							1,2,3-Trichlorobenzene	25 ug/mL
							1,2,3-Trichloropropane	25 ug/mL
							1,2,4-Trichlorobenzene	25 ug/mL
							1,2,4-Trimethylbenzene	25 ug/mL
							1,2-Dibromo-3-Chloropropane	25 ug/mL
							1,2-Dichlorobenzene	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,3,5-Trimethylbenzene	25 ug/mL
							1,3-Dichlorobenzene	25 ug/mL
							1,3-Dichloropropane	25 ug/mL
							1,4-Dichlorobenzene	25 ug/mL
							1,4-Dioxane	500 ug/mL
							2,2-Dichloropropane	25 ug/mL
							2-Chlorotoluene	25 ug/mL
							2-Methyl-2-propanol	250 ug/mL
							3-Chloro-1-propene	25 ug/mL
							4-Chlorotoluene	25 ug/mL
							4-Isopropyltoluene	25 ug/mL
							Acrylonitrile	250 ug/mL
							Benzene	25 ug/mL
							Bromobenzene	25 ug/mL
							Bromoform	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon disulfide	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chlorobromomethane	25 ug/mL
							Chlorodibromomethane	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Cyclohexane	25 ug/mL
							Dibromomethane	25 ug/mL
							Dichlorobromomethane	25 ug/mL
							Ethyl ether	25 ug/mL
							Ethyl methacrylate	25 ug/mL
							Ethylbenzene	25 ug/mL
							Ethylene Dibromide	25 ug/mL
							Hexachlorobutadiene	25 ug/mL
							Hexane	25 ug/mL
							Iodomethane	25 ug/mL
							Isobutyl alcohol	625 ug/mL
							Isopropylbenzene	25 ug/mL
							m-Xylene & p-Xylene	25 ug/mL
							Methyl acetate	50 ug/mL
							Methyl tert-butyl ether	25 ug/mL
							Methylcyclohexane	25 ug/mL
							Methylene Chloride	25 ug/mL
							n-Butylbenzene	25 ug/mL
							n-Heptane	25 ug/mL
							N-Propylbenzene	25 ug/mL
							Naphthalene	25 ug/mL
							o-Xylene	25 ug/mL
							sec-Butylbenzene	25 ug/mL
							Styrene	25 ug/mL
							tert-Butylbenzene	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Tetrahydrofuran	50 ug/mL
							Toluene	25 ug/mL
trans-1,2-Dichloroethene	25 ug/mL							
trans-1,3-Dichloropropene	25 ug/mL							
trans-1,4-Dichloro-2-butene	25 ug/mL							
Trichloroethene	25 ug/mL							
.VOA8260GAS1ST_00361	04/30/24	Restek, Lot A0171131			(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.VOA8260VOAPRI_00493	01/02/22	12/02/21	Methanol, Lot 4292562	10 mL	VOA8260KET1ST_00164	0.2 mL	2-Butanone (MEK)	250 ug/mL
							2-Hexanone	250 ug/mL
							4-Methyl-2-pentanone (MIBK)	250 ug/mL
							Acetone	250 ug/mL
					VOA8260MEGA1_00116	1 mL	1,1,1,2-Tetrachloroethane	250 ug/mL
							1,1,1-Trichloroethane	250 ug/mL
							1,1,2,2-Tetrachloroethane	250 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	250 ug/mL
							1,1,2-Trichloroethane	250 ug/mL
							1,1-Dichloroethane	250 ug/mL
							1,1-Dichloroethene	250 ug/mL
							1,1-Dichloropropene	250 ug/mL
							1,2,3-Trichlorobenzene	250 ug/mL
							1,2,3-Trichloropropane	250 ug/mL
							1,2,4-Trichlorobenzene	250 ug/mL
							1,2,4-Trimethylbenzene	250 ug/mL
							1,2-Dibromo-3-Chloropropane	250 ug/mL
							1,2-Dichlorobenzene	250 ug/mL
							1,2-Dichloroethane	250 ug/mL
							1,2-Dichloropropene	250 ug/mL
							1,3,5-Trimethylbenzene	250 ug/mL
							1,3-Dichlorobenzene	250 ug/mL
							1,3-Dichloropropene	250 ug/mL
							1,4-Dichlorobenzene	250 ug/mL
							1,4-Dioxane	5000 ug/mL
							2,2-Dichloropropane	250 ug/mL
							2-Chlorotoluene	250 ug/mL
							2-Methyl-2-propanol	2500 ug/mL
							3-Chloro-1-propene	250 ug/mL
							4-Chlorotoluene	250 ug/mL
							4-Isopropyltoluene	250 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzene	250 ug/mL
							Bromobenzene	250 ug/mL
							Bromoform	250 ug/mL
							Carbon disulfide	250 ug/mL
							Carbon tetrachloride	250 ug/mL
							Chlorobenzene	250 ug/mL
							Chlorobromomethane	250 ug/mL
							Chlorodibromomethane	250 ug/mL
							Chloroform	250 ug/mL
							cis-1,2-Dichloroethene	250 ug/mL
							cis-1,3-Dichloropropene	250 ug/mL
							Cyclohexane	250 ug/mL
							Dibromomethane	250 ug/mL
							Dichlorobromomethane	250 ug/mL
							Ethyl ether	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl methacrylate	250 ug/mL
							Ethylbenzene	250 ug/mL
							Ethylene Dibromide	250 ug/mL
							Hexachlorobutadiene	250 ug/mL
							Hexane	250 ug/mL
							Iodomethane	250 ug/mL
							Isobutyl alcohol	6250 ug/mL
							Isopropylbenzene	250 ug/mL
							m-Xylene & p-Xylene	250 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	250 ug/mL
							Methylcyclohexane	250 ug/mL
							Methylene Chloride	250 ug/mL
							n-Butylbenzene	250 ug/mL
							n-Heptane	250 ug/mL
							N-Propylbenzene	250 ug/mL
							Naphthalene	250 ug/mL
							o-Xylene	250 ug/mL
							sec-Butylbenzene	250 ug/mL
							Styrene	250 ug/mL
							tert-Butylbenzene	250 ug/mL
							Tetrachloroethene	250 ug/mL
							Tetrahydrofuran	500 ug/mL
							Toluene	250 ug/mL
							trans-1,2-Dichloroethene	250 ug/mL
							trans-1,3-Dichloropropene	250 ug/mL
							trans-1,4-Dichloro-2-butene	250 ug/mL
							Trichloroethene	250 ug/mL
..VOA8260KET1ST_00164	01/31/24		Restek, Lot A0168313		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
..VOA8260MEGA1_00116	10/31/22		Restek, Lot A0159680		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
VOA8260VOAPRI_00499	01/19/22	01/12/22	Methanol, Lot 4292561	10 mL	VOA8260GAS1ST_00369	0.1 mL	Vinyl chloride	25 ug/mL
					VOA8260VOAPRI_00497	1 mL	2-Butanone (MEK)	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							Benzene	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Trichloroethene	25 ug/mL
.VOA8260GAS1ST_00369	04/30/24		Restek, Lot A0171131		(Purchased Reagent)		Vinyl chloride	2500 ug/mL
.VOA8260VOAPRI_00497	02/03/22	01/03/22	Methanol, Lot 4292561	10 mL	VOA8260KET1ST_00165	0.2 mL	2-Butanone (MEK)	250 ug/mL
					VOA8260MEGA1_00122	1 mL	1,1-Dichloroethene	250 ug/mL
							1,2-Dichloroethane	250 ug/mL
							Benzene	250 ug/mL
							Carbon tetrachloride	250 ug/mL
							Chlorobenzene	250 ug/mL
							Chloroform	250 ug/mL
							Tetrachloroethene	250 ug/mL
							Trichloroethene	250 ug/mL
..VOA8260KET1ST_00165	07/31/24		Restek, Lot A0174287		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
..VOA8260MEGA1_00122	10/31/22		Restek, Lot A0159680		(Purchased Reagent)		1,1-Dichloroethene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							Benzene	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Trichloroethene	2500 ug/mL
VOABFB25_00143							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Total BTEX	
							Xylenes, Total	
					VOABFB50_00147	5 mL	BFB	25 ug/mL
					VOABFBRES_00112	1 mL	BFB	50 ug/mL
..VOABFBRES_00112	06/30/26		Restek, Lot A0173810		(Purchased Reagent)		BFB	2500 ug/mL
VOABFB25_00144							1,2-Dichloroethene, Total	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Total BTEX	
							Xylenes, Total	
					VOABFB50_00148	5 mL	BFB	25 ug/mL
.VOABFB50_00148	01/30/22	12/30/21	Methanol, Lot 4292562	50 mL	VOABFBRES_00108	1 mL	BFB	50 ug/mL
..VOABFBRES_00108	06/30/26		Restek, Lot A0173810		(Purchased Reagent)		BFB	2500 ug/mL
WCODLL 100ppm 00680	01/13/22	01/12/22	DI Water, Lot Super Q	50 mL	WCOD1000P_00036	5 mL	Chemical Oxygen Demand	100 mg/L
.WCOD1000P_00036	08/31/22		Lab Chem, Lot K239-20		(Purchased Reagent)		Chemical Oxygen Demand	1000 mL
WCODLL 10ppm 00683	01/13/22	01/12/22	DI Water, Lot Super Q	50 mL	WCOD1000P_00036	0.5 mL	Chemical Oxygen Demand	10 mg/L
.WCOD1000P_00036	08/31/22		Lab Chem, Lot K239-20		(Purchased Reagent)		Chemical Oxygen Demand	1000 mL
WCODLL 125ppm 00675	01/13/22	01/12/22	DI Water, Lot Super Q	50 mL	WCOD1000P_00036	6.25 mL	Chemical Oxygen Demand	125 mg/L
.WCOD1000P_00036	08/31/22		Lab Chem, Lot K239-20		(Purchased Reagent)		Chemical Oxygen Demand	1000 mL
WCODLL 150ppm 00687	01/13/22	01/12/22	DI Water, Lot Super Q	50 mL	WCOD1000P_00036	7.5 mL	Chemical Oxygen Demand	150 mg/L
.WCOD1000P_00036	08/31/22		Lab Chem, Lot K239-20		(Purchased Reagent)		Chemical Oxygen Demand	1000 mL
WCODLL 25ppm 00681	01/13/22	01/12/22	DI Water, Lot Super Q	50 mL	WCOD1000P_00036	1.25 mL	Chemical Oxygen Demand	25 mg/L
.WCOD1000P_00036	08/31/22		Lab Chem, Lot K239-20		(Purchased Reagent)		Chemical Oxygen Demand	1000 mL
WCODLL 50ppm 00678	01/13/22	01/12/22	DI Water, Lot Super Q	50 mL	WCOD1000P_00036	2.5 mL	Chemical Oxygen Demand	50 mg/L
.WCOD1000P_00036	08/31/22		Lab Chem, Lot K239-20		(Purchased Reagent)		Chemical Oxygen Demand	1000 mL
WCODLL 75ppm 00676	01/13/22	01/12/22	DI Water, Lot Super Q	50 mL	WCOD1000P_00036	3.75 mL	Chemical Oxygen Demand	75 mg/L
.WCOD1000P_00036	08/31/22		Lab Chem, Lot K239-20		(Purchased Reagent)		Chemical Oxygen Demand	1000 mL
WCODLL CCV 00674	01/13/22	01/12/22	DI Water, Lot Super Q	50 mL	WCOD1000P_00036	3.75 mL	Chemical Oxygen Demand	75 mg/L
.WCOD1000P_00036	08/31/22		Lab Chem, Lot K239-20		(Purchased Reagent)		Chemical Oxygen Demand	1000 mL
WCODLL ICVLCS 00681	01/13/22	01/12/22	DI Water, Lot Super Q	50 mL	WCOD1000S_00021	3.75 mL	Chemical Oxygen Demand	75 mg/L
.WCOD1000S_00021	08/31/22		Ricca Chemical Co., Lot 2103D87		(Purchased Reagent)		Chemical Oxygen Demand	1000 mg/L
WH2SO4ConcP 00107	12/29/25		Macron Chemicals, Lot 000276386		(Purchased Reagent)		Sulfuric acid	36 N
WHemPSP_00266	09/23/27		J.T.Baker, Lot 0000250309		(Purchased Reagent)		Acetone	0.002 mg/L
							HEM Polar (Oil and Grease - Polar)	3980 mg/L
							Hexadecane	1980 mg/L
							Oil & Grease (HEM)	3980 mg/L
							SGT HEM (Oil and Grease - Nonpolar)	1980 mg/L
							SGT-HEM	1980 mg/L
							Stearic Acid	2000 mg/L
WHemPSP_00267	09/23/27		J.T.Baker, Lot 0000250309		(Purchased Reagent)		Acetone	0.002 mg/L
							HEM Polar (Oil and Grease - Polar)	3980 mg/L
							Hexadecane	1980 mg/L
							Oil & Grease (HEM)	3980 mg/L
							SGT HEM (Oil and Grease - Nonpolar)	1980 mg/L
							SGT-HEM	1980 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Pittsburgh Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Stearic Acid	2000 mg/L
WpHBuffer7CCV_00079	09/29/23		LabChem, Lot L265-02		(Purchased Reagent)		pH	7 SU
WpHBuffer7P_00038	08/09/23		Lab Chem, Lot L172-28		(Purchased Reagent)		pH	7 SU
WResPSP_00080	04/30/24		Phenova, Lot 8222-09		(Purchased Reagent)		Total Solids	179 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Edison Job No.: 180-132081-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
WTcreacSP_00032	04/14/22		ERA, Lot 430421M		(Purchased Reagent)		Cyanide, Reactive	1000 mg/L
WTsfideLCS_00084	08/31/23		phenova, Lot 8217-22		(Purchased Reagent)		Sulfide	70.9 mg/L
							Sulfide, Reactive	70.9 mg/L

Reagent

AR1016 (10000)_00005



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 572370 Lot No.: A0174171
Description : Custom Aroclor 1016 Standard
Custom Aroclor 1016 Standard 10,000µg/mL, Isooctane, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : July 31, 2026 Storage: 10°C or colder
Handling: This product contains PCBs. Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Aroclor 1016 CAS # 12674-11-2 (Lot 129-02) Purity -----%	10,090.0 µg/mL	+/- 93.3748	µg/mL	Gravimetric	
			+/- 327.8408	µg/mL	Unstressed	
			+/- 423.9478	µg/mL	Stressed	

Solvent: Isooctane
CAS # 540-84-1
Purity 99%

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Reagent

AR1260 (10000)_00003



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 572371 Lot No.: A0175178
Description : Custom Aroclor 1260 Standard
Custom Aroclor 1260 Standard 10,000µg/mL, Isooctane, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : August 31, 2026 Storage: 10°C or colder
Handling: This product contains PCBs. Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Aroclor 1260	10,000.0 µg/mL	+/- 92.5419 µg/mL	Gravimetric
	CAS # 11096-82-5 (Lot 1072036)		+/- 324.9165 µg/mL	Unstressed
	Purity ---%		+/- 420.1663 µg/mL	Stressed

Solvent: Isooctane
CAS # 540-84-1
Purity 99%

Page 209 of 2415

Reagent

DBC Internal_00004



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32025 Lot No.: A0152900
Description : Dibutyl Chlorendate Mix
Dibutylchlorendate 200µg/mL, Acetone, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : November 30, 2022 Storage: 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dibutyl chlorendate	202.0 µg/mL	+/- 1.4323 µg/mL	Gravimetric
	CAS # 1770-80-5 (Lot CAP-25493-47)		+/- 9.3150 µg/mL	Unstressed
	Purity 99%		+/- 9.5516 µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

DBC
5-6-20

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

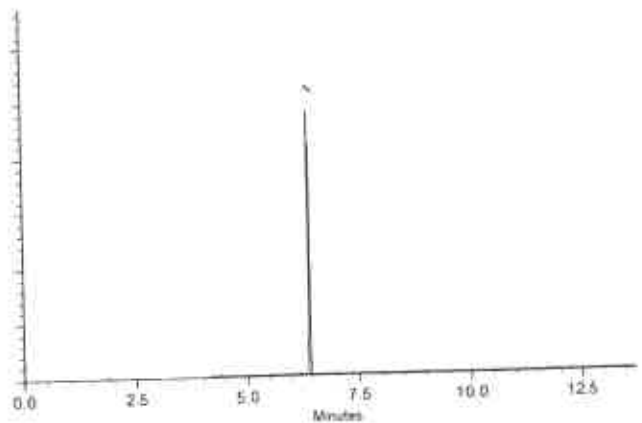
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Walker Workman - Operations Technician I

Date Mixed: 16-Sep-2019 Balance: B442140311


Justine Albertson - Operations Tech-ARM QC

Date Passed: 17-Sep-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

EUROPITT-CRA1_00002

CERTIFICATE OF ANALYSIS

Multi-Element Aqueous CRM

Product #: TA-CM-MAR20-PIT1

Custom EUROPITT-CRA-1

Lot #: 10114318-4

Matrix: 2% HNO₃

Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty
Ag	500.7 ± 2.5 µg/L	Cr	500.4 ± 2.5 µg/L	Ni	4.000 ± 0.020 µg/mL
Al	20.00 ± 0.10 µg/mL	Cu	2.499 ± 0.012 µg/mL	Pb	1.000 ± 0.005 µg/mL
As	999.3 ± 5.0 µg/L	Fe	10.00 ± 0.05 µg/mL	Se	1.000 ± 0.005 µg/mL
Ba	20.00 ± 0.10 µg/mL	K	500.0 ± 2.5 µg/mL	Sr	5.000 ± 0.025 µg/mL
Be	400.4 ± 2.0 µg/L	Li	5.000 ± 0.025 µg/mL	Tl	2.000 ± 0.010 µg/mL
Ca	500.0 ± 2.5 µg/mL	Mg	500.0 ± 2.5 µg/mL	V	5.001 ± 0.025 µg/mL
Cd	500.5 ± 2.5 µg/L	Mn	1.501 ± 0.008 µg/mL	Zn	2.000 ± 0.010 µg/mL
Co	5.000 ± 0.025 µg/mL	Na	500.0 ± 2.5 µg/mL		

Source Material Lot # Chart

Element	Source Material Lot #	Element	Source Material Lot #	Element	Source Material Lot #
Ag	1106123	Cr	1123848	Ni	984273
Al	1063015	Cu	1074805	Pb	1046594
As	1103713	Fe	1046975	Se	1135995
Ba	1112442	K	1053109	Sr	1096004
Be	1072683	Li	1094768	Tl	1124114
Ca	1072921	Mg	1075232	V	1055682
Cd	1080470	Mn	1063019	Zn	1095528
Co	1107088	Na	1055526		

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 17034**, **ISO/IEC 17025** and **ISO 9001**. This CRM was prepared to the certified concentrations shown above by gravimetric methods, using single-element concentrates that were certified using the "High Performance ICP-OES" protocol developed by NIST and are directly traceable to **NIST SRMs (see final page)**. The solution was diluted with filtered (0.22 µm), 18 M-ohm deionized water and stabilized the appropriate high-purity acid(s) as indicated in the listed matrix. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. Secondary verification of the certified concentrations was performed using ICP-OES that was calibrated and/or referenced against **NIST SRMs (see final page)**. The uncertainty associated with each certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 μ L, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.



Chuck Goudreau, Certifying Officer

October 20, 2021
Certification Date

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

Health and Safety Information: Refer to the Safety Data Sheet (SDS).

Homogeneity: This solution was determined to be homogeneous by procedures consistent with the requirements of ISO 17034 and ISO Guide 35. Replicate samples of the finished solution were analyzed to confirm its homogeneity, in accordance with internal procedures for the assessment of homogeneity and stability. To ensure homogeneity, users should not take a smaller sub-sample than specified in the Instructions for Use, as doing so will invalidate the certified values and uncertainties.

Further Information: Please contact CPI International for further information about this material.

Quality Certifications: This material was prepared under a quality management system that is registered/accredited to the following:

- ISO 17034 Accredited: Reference Materials Producer, A2LA Certificate No. 2848.02 – General Requirements for the Competence of Reference Material Producers
 - ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35
- ISO/IEC 17025 Accredited: Chemical Testing, A2LA Certificate No. 2848.01 – General Requirements for the Competence of Testing and Calibration Laboratories
- ISO 9001 Certified: Quality Management Systems, Certificate Registration No. 56 100 19560101 – Requirements
(Registrar: TUV NORD)

This CRM is traceable to the following NIST SRMs:

Analyte	Aq. SRM	MO SRM	Analyte	Aq. SRM	MO SRM	Analyte	Aq. SRM	MO SRM
Ag	3151	-	Hf	3122	-	S	3154	2770
Al	3101a	-	Hg	3133	3133	Sb	3102a	3102a
As	3103a	3103a	Ho	3123a	-	Sc	3148a	3148a
Au	3121	-	In	3124a	3124a	Se	3149	3149
B	3107	3107	K	3141a	3141a	Si	3150	-
Ba	3104a	-	La	3127a	3127a	Sm	3147a	-
Be	3105a	3105a	Li	3129a	3129a	Sn	3161a	-
Bi	3106	3106	Lu	3130a	-	SO ₄ ²⁻	3181	-
Br	3184	-	Mg	3131a	3131a	Sr	3153a	3153a
Ca	3109a	3109a	Mn	3132	3132	Ta	3155	-
Cd	3108	-	Mo	3134	3134	Tb	3157a	-
Ce	3110	3110	Na	3152a	-	Te	3156	-
Cl	3182	1818a	Nb	3137	-	Th	-	-
Co	3113	3113	Nd	3135a	-	Ti	3162a	3162a
Cr	3112a	-	Ni	3136	-	Tl	3158	3158
Cs	3111a	-	NO ₃	3185	-	Tm	3160a	-
Cu	3114	-	P	3139a	3139a	U	3164	-
Dy	3115a	-	Pb	3128	-	V	3165	-
Er	3116a	-	Pd	3138	-	W	3163	3163
Eu	3117a	-	PO ₄ ³⁻	3186	-	Y	3167a	3167a
F-	3183	-	Pr	3142a	-	Yb	3166a	-
Fe	3126a	-	Pt	3140	3140	Zn	3168a	3168a
Ga	3119a	-	Rb	3145a	-	Zr	3169	3169
Gd	3118a	-	Re	3143	-			
Ge	3120a	-	Rh	3144	3144			

Reagent

EUROPITT-CRA2_00002



4525866
ID: EUROPITT-CRA2_00002
Exp: 04/20/23 Pp4: RJG
ICP ICVL/CCVL STOCK SOLN#

CERTIFICATE OF ANALYSIS

Multi-Element Aqueous CRM

Product #: TA-CM-MAR20-PIT2

Custom EUROPITT-CRA-2

Lot #: 10114318-3

Matrix: 2% HNO₃/tr. HF

Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty
B	20.00 ± 0.10 µg/mL	Sb	1.002 ± 0.005 µg/mL	Sn	9.998 ± 0.050 µg/mL
Mo	4.001 ± 0.020 µg/mL	Si	50.01 ± 0.25 µg/mL	Ti	5.000 ± 0.025 µg/mL

Source Material Lot # Chart

Element	Source Material Lot #	Element	Source Material Lot #	Element	Source Material Lot #
B	1101946	Sb	1129139	Sn	1128650
Mo	1075718	Si	1094765	Ti	1038255

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 17034**, **ISO/IEC 17025** and **ISO 9001**. This CRM was prepared to the certified concentrations shown above by gravimetric methods, using single-element concentrates that were certified using the "High Performance ICP-OES" protocol developed by NIST and are directly traceable to **NIST SRMs (see final page)**. The solution was diluted with filtered (0.22 µm), 18 M-ohm deionized water and stabilized the appropriate high-purity acid(s) as indicated in the listed matrix. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. Secondary verification of the certified concentrations was performed using ICP-OES that was calibrated and/or referenced against **NIST SRMs (see final page)**. The uncertainty associated with each certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau, Certifying Officer

October 20, 2021
Certification Date

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

USA
5580 Skylane Boulevard P: 707.525.5788
Santa Rosa, CA 95403 P: 800.878.7654
F: 707.545.7901

www.cpiinternational.com

Europe
Nieuwe Hemweg 7P P: +31 20 638 05 97
1013BG Amsterdam F: +31 20 420 28 36
The Netherlands

Health and Safety Information: Refer to the Safety Data Sheet (SDS).

Homogeneity: This solution was determined to be homogeneous by procedures consistent with the requirements of ISO 17034 and ISO Guide 35. Replicate samples of the finished solution were analyzed to confirm its homogeneity, in accordance with internal procedures for the assessment of homogeneity and stability. To ensure homogeneity, users should not take a smaller sub-sample than specified in the Instructions for Use, as doing so will invalidate the certified values and uncertainties.

Further Information: Please contact CPI International for further information about this material.

Quality Certifications: This material was prepared under a quality management system that is registered/accredited to the following:

- ISO 17034 Accredited: Reference Materials Producer, A2LA Certificate No. 2848.02 – General Requirements for the Competence of Reference Material Producers
 - ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35
- ISO/IEC 17025 Accredited: Chemical Testing, A2LA Certificate No. 2848.01 – General Requirements for the Competence of Testing and Calibration Laboratories
- ISO 9001 Certified: Quality Management Systems, Certificate Registration No. 56 100 19560101 – Requirements (Registrar: TUV NORD)

This CRM is traceable to the following NIST SRMs:

Analyte	Aq. SRM	MO SRM	Analyte	Aq. SRM	MO SRM	Analyte	Aq. SRM	MO SRM
Ag	3151	-	Hf	3122	-	S	3154	2770
Al	3101a	-	Hg	3133	3133	Sb	3102a	3102a
As	3103a	3103a	Ho	3123a	-	Sc	3148a	3148a
Au	3121	-	In	3124a	3124a	Se	3149	3149
B	3107	3107	K	3141a	3141a	Si	3150	-
Ba	3104a	-	La	3127a	3127a	Sm	3147a	-
Be	3105a	3105a	Li	3129a	3129a	Sn	3161a	-
Bi	3106	3106	Lu	3130a	-	SO ₄ ²⁻	3181	-
Br	3184	-	Mg	3131a	3131a	Sr	3153a	3153a
Ca	3109a	3109a	Mn	3132	3132	Ta	3155	-
Cd	3108	-	Mo	3134	3134	Tb	3157a	-
Ce	3110	3110	Na	3152a	-	Te	3156	-
Cl	3182	1818a	Nb	3137	-	Th	-	-
Co	3113	3113	Nd	3135a	-	Ti	3162a	3162a
Cr	3112a	-	Ni	3136	-	Tl	3158	3158
Cs	3111a	-	NO ₃	3185	-	Tm	3160a	-
Cu	3114	-	P	3139a	3139a	U	3164	-
Dy	3115a	-	Pb	3128	-	V	3165	-
Er	3116a	-	Pd	3138	-	W	3163	3163
Eu	3117a	-	PO ₄ ³⁻	3186	-	Y	3167a	3167a
F ⁻	3183	-	Pr	3142a	-	Yb	3166a	-
Fe	3126a	-	Pt	3140	3140	Zn	3168a	3168a
Ga	3119a	-	Rb	3145a	-	Zr	3169	3169
Gd	3118a	-	Re	3143	-			
Ge	3120a	-	Rh	3144	3144			

Reagent

GCBZ#205STD1_00006



CERTIFICATE OF ANALYSIS

Catalog No: C-205S-TP

Description: 2,3,3',4,4',5,5',6-Octachlorobiphenyl

Lot: 216091034

Solvent: Isooctane

Hazards: Refer to SDS for complete safety information

Date Certified: Sep 6, 2016

Expiration: Sep 6, 2026

Sample Size: 1 mL

Components: 1

Storage Condition: Ambient (>5 °C)/Sonicate

Included on ISO/IEC 17025 Scope of Accreditation: Yes

Included on ISO Guide 34 Scope of Accreditation: Yes



Signal Word: Danger

Component	CAS #	Purity % (GC/MS)	Prepared Concentration ¹ (µg/mL)	Certified Analyte Concentration ² (µg/mL)
2,3,3',4,4',5,5',6-Octachlorobiphenyl	74472-53-0	99.0	100.2	99.2

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

¹ All weights are traceable through NIST, Test No. 822-275872-11

² Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

See reverse side for additional information

Certified By:

Larry Decker, Organic QC Manager

Reagent

GCDCAASSTD_00009



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32049 **Lot No.:** A0150937
Description : 2,4-Dichlorophenylacetic Acid Standard
2, 4-Dichlorophenyl Acetic Acid 200µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2022 **Storage:** 10°C or colder
Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	2,4-dichlorophenylacetic acid	201.0 µg/mL	+/-	1.4253	µg/mL	Gravimetric
	CAS # 19719-28-9 (Lot S30618V)		+/-	10.7216	µg/mL	Unstressed
	Purity 99%		+/-	10.7395	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:

Failure to derivatize this standard will lead to incorrect quantitative results.

Column:
150mm x 4.6mm
Allure C18 Cat.(#9164565)

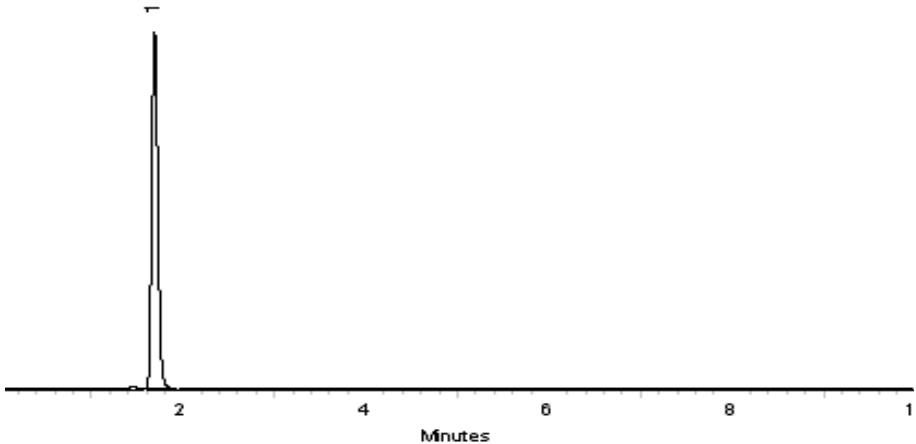
Flow Rate:
1.0 ml/min.

Mobile Phase A:
0.14% H3PO4 in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dustin J. Lidgett
Dustin Lidgett - Mix Technician

Date Mixed: 17-Jul-2019 **Balance:** 1128360905

Jennifer L. Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 19-Jul-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

GCDCBStock_00010

Certificate of Analysis

Product Name: Decachlorobiphenyl Standard

Product Number: PPS-150-1

Lot Issue Date: 27-Apr-2021

Lot Number: 0006599545

Expiration Date: 31-May-2025

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration \pm Uncertainty
decachlorobiphenyl (BZ # 209)	002051-24-3	RM18287	1001 \pm 5 μ g/mL

Matrix: toluene

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

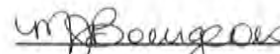
Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:


Monica Bourgeois
QMS Representative



ISO 17034 Cert
No. AR-1936

RM was produced in accordance with the LRQA registered ISO 9001:2015 Quality Management System. Cert # 10303760

Page: 1 of 1

www.agilent.com/quality/
CSD-QA-015.1



ISO 17025 Cert
No. AT-1937

Reagent

GCHERBICALMIX_00019



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Gravimetric Certificate



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569749 **Lot No.:** A0142217

Description : Herbicide List #1 Standard (2015)

Herbicide List #1 Standard (2015) 50-20,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2021 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Component #	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	2,4,5-T		50.5 µg/mL	+/-	0.3581	µg/mL	Gravimetric
	CAS # 93-76-5	(Lot 6693400)		+/-	2.6937	µg/mL	Unstressed
	Purity 99%			+/-	2.6982	µg/mL	Stressed
2	2,4,5-TP (silvex)		50.0 µg/mL	+/-	0.3545	µg/mL	Gravimetric
	CAS # 93-72-1	(Lot 5299900)		+/-	2.6671	µg/mL	Unstressed
	Purity 99%			+/-	2.6715	µg/mL	Stressed
3	2,4-D		201.0 µg/mL	+/-	1.4253	µg/mL	Gravimetric
	CAS # 94-75-7	(Lot 7677600)		+/-	10.7216	µg/mL	Unstressed
	Purity 99%			+/-	10.7395	µg/mL	Stressed
4	2,4-DB		201.0 µg/mL	+/-	1.4253	µg/mL	Gravimetric
	CAS # 94-82-6	(Lot 5262300)		+/-	10.7216	µg/mL	Unstressed
	Purity 99%			+/-	10.7395	µg/mL	Stressed
5	Dalapon		200.5 µg/mL	+/-	1.4214	µg/mL	Gravimetric
	CAS # 75-99-0	(Lot 7138100)		+/-	10.6923	µg/mL	Unstressed
	Purity 95%			+/-	10.7101	µg/mL	Stressed
6	Dicamba		100.5 µg/mL	+/-	0.7126	µg/mL	Gravimetric
	CAS # 1918-00-9	(Lot 7173700)		+/-	5.3608	µg/mL	Unstressed
	Purity 99%			+/-	5.3697	µg/mL	Stressed
7	Dichlorprop		201.0 µg/mL	+/-	1.4253	µg/mL	Gravimetric
	CAS # 120-36-5	(Lot 4619200)		+/-	10.7216	µg/mL	Unstressed
	Purity 99%			+/-	10.7395	µg/mL	Stressed

8	Dinoseb CAS # 88-85-7 Purity 99%	(Lot 50001)	201.0	µg/mL	+/- 1.4253 +/- 10.7216 +/- 10.7395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	MCPA CAS # 94-74-6 Purity 97%	(Lot 7204500)	20,198.3	µg/mL	+/- 118.2655 +/- 1,074.3731 +/- 1,076.1727	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	MCPP (Mecoprop) CAS # 93-65-2 Purity 99%	(Lot 6899400)	20,094.0	µg/mL	+/- 117.6548 +/- 1,068.8247 +/- 1,070.6150	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Pentachlorophenol CAS # 87-86-5 Purity 99%	(Lot 180924JACG)	50.5	µg/mL	+/- 0.3581 +/- 2.6937 +/- 2.6982	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	Picloram CAS # 1918-02-1 Purity 97%	(Lot 34ATO)	201.8	µg/mL	+/- 1.4306 +/- 10.7622 +/- 10.7801	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
Solvent: Methanol CAS # 67-56-1 Purity 99%							


Tom Suckar - Mix Technician

Date Mixed: 09-Oct-2018 Balance: 1128360905

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

Specific Reference Material Notes:

Failure to derivatize this standard will lead to incorrect quantitative results.

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

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0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

GCNa2SO3_00015

Certificate of Analysis

1 Reagent Lane
 Fair Lawn, NJ 07410
 201.796.7100 tel
 201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System
 Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	S430	Quality Test / Release Date	08/27/2020
Lot Number	203490		
Description	SODIUM SULFITE, A.C.S.		
Country of Origin	Italy	Suggested Retest Date	Aug/2025
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	White crystals, or crystalline powder
ASSAY	%	>= 98	98.7
CHLORIDE	%	<= 0.02	<0.02
FREE ACID	PASS/FAIL	= PASS TEST	PASS TEST
HEAVY METALS (as Pb)	%	<= 0.001	<0.001
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
INSOLUBLE MATTER	%	<= 0.005	0.002
IRON (Fe)	%	<= 0.001	<0.001
TITRATABLE FREE BASE	MEQ/G	<= 0.03	<0.03



Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
 If there are any questions with this certificate, please call at (800) 227-6701.

*Based on suggested storage condition.

Reagent

GCPCB2154 mix_00007



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569745 **Lot No.:** A0131802
Description : PCB-1221/1254 Standard
PCB-1221/1254 Standard 1,000µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : January 31, 2024 **Storage:** 25°C nominal
Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1221		1,006.0 µg/mL	+/-	5.9753	µg/mL Gravimetric
	CAS #	11104-28-2 (Lot 2781200)		+/-	31.8975	µg/mL Unstressed
	Purity	----%		+/-	41.6615	µg/mL Stressed
2	Aroclor 1254		1,002.0 µg/mL	+/-	5.9516	µg/mL Gravimetric
	CAS #	11097-69-1 (Lot 124-191-B)		+/-	31.7706	µg/mL Unstressed
	Purity	----%		+/-	41.4958	µg/mL Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Reagent

GCPCB3262 mix_00005



110 Benner Circle
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Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569746 **Lot No.:** A0132023
Description : PCB-1232/1262 Standard
PCB-1232/1262 Standard 1,000µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : January 31, 2024 **Storage:** 25°C nominal
Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)			
1	Aroclor 1232	1,004.0 µg/mL	+/-	5.9635	µg/mL	Gravimetric
	CAS # 11141-16-5 (Lot W-107-05)		+/-	31.8340	µg/mL	Unstressed
	Purity ----%		+/-	41.5787	µg/mL	Stressed
2	Aroclor 1262	1,002.0 µg/mL	+/-	5.9516	µg/mL	Gravimetric
	CAS # 37324-23-5 (Lot 3067100)		+/-	31.7706	µg/mL	Unstressed
	Purity ----%		+/-	41.4958	µg/mL	Stressed
Solvent: Hexane						
	CAS # 110-54-3					
	Purity 99%					

Reagent

GCPCB4268 mix_00005



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01



ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569747 **Lot No.:** A0133093

Description : PCB-1242/1268 Standard

PCB-1242/1268 Standard 1,000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2024 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)				
1	Aroclor 1242	(Lot 01141-A)	1,008.0 μg/mL	+/-	5.9872	μg/mL	Gravimetric	
	CAS #			53469-21-9	+/-	31.9609	μg/mL	Unstressed
	Purity			----%	+/-	41.7443	μg/mL	Stressed
2	Aroclor 1268	(Lot 2743900)	1,000.0 μg/mL	+/-	5.9397	μg/mL	Gravimetric	
	CAS #			11100-14-4	+/-	31.7072	μg/mL	Unstressed
	Purity			----%	+/-	41.4130	μg/mL	Stressed
Solvent:	Hexane							
	CAS #	110-54-3						
	Purity	99%						

Reagent

GCPCBI1248STD_00011



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
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Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32010 Lot No.: A0142661
Description : Aroclor® 1248 Standard
Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : January 31, 2025 Storage: 25°C nominal
Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)		
1	Aroclor 1248	1,000.0 µg/mL	+/- 5.8686	µg/mL	Gravimetric
	CAS # 12672-29-6 (Lot 7872900)		+/- 31.6940	µg/mL	Unstressed
	Purity —%		+/- 41.4029	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Reagent

GCPCBI1660STD_00019



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32039 **Lot No.:** A0150739

Description : Aroclor® 1016/1260 Mix

Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2025 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)				
1	Aroclor 1016		1,003.6 μg/mL	+/-	5.8485	μg/mL	Gravimetric	
	CAS #	12674-11-2		(Lot 982931)	+/-	31.8005	μg/mL	Unstressed
	Purity	----%		+/-	41.5461	μg/mL	Stressed	
2	Aroclor 1260		1,000.0 μg/mL	+/-	5.8275	μg/mL	Gravimetric	
	CAS #	11096-82-5		(Lot 855895)	+/-	31.6864	μg/mL	Unstressed
	Purity	----%		+/-	41.3971	μg/mL	Stressed	
Solvent:	Hexane							
	CAS #	110-54-3						
	Purity	99%						

Reagent

GCPEST (PEM2)_00002



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01



ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571991 **Lot No.:** A0150215

Description : 8081 Performance Evaluation Mix

8081 Performance Evaluation Mix 5-10µg/mL, Hexane/Toluene (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2022 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Endrin	5.0 µg/mL	+/- 0.1542 µg/mL Gravimetric
	CAS # 72-20-8 (Lot 8429200)		+/- 0.2735 µg/mL Unstressed
	Purity 99%		+/- 0.3620 µg/mL Stressed
2	4,4'-DDT	10.0 µg/mL	+/- 0.3096 µg/mL Gravimetric
	CAS # 50-29-3 (Lot S37912V)		+/- 0.5491 µg/mL Unstressed
	Purity 99%		+/- 0.7269 µg/mL Stressed

Solvent: Hexane/Toluene (90:10)
CAS # 110-54-3/108-88-3
Purity 99%

Rec'd
11-1-19

Column:

30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C

@ 25°C/min. (hold 10 min.)

Inj. Temp:

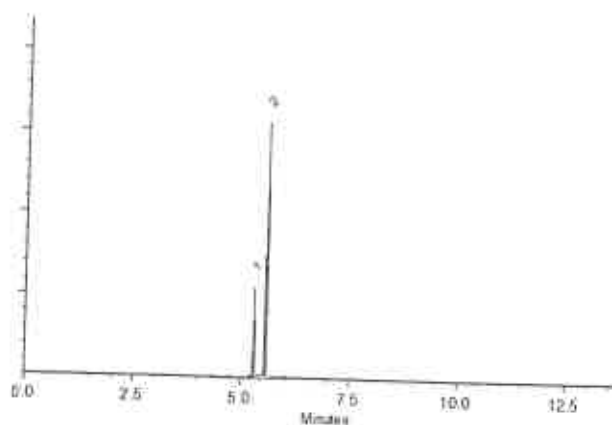
250°C

Det. Temp:

300°C

Det. Type:

ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Walker Workman - Operations Technician I

Date Mixed: 19-Jun-2019

Balance: 1128353505


Justin Albertson - Operations Technician II

Date Passed: 21-Jun-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

GCPEST (SURR) S_00010



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32000 Lot No.: A0141110
Description : Pesticide Surrogate Mix
Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : November 30, 2024 Storage: 10°C or colder
Handling: Contains PCBs - sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)			
1	2,4,5,6-Tetrachloro-m-xylene	201.4 µg/mL	+/-	1.1736	µg/mL	Gravimetric
	CAS # 877-09-8 (Lot 0052481)		+/-	6.3813	µg/mL	Unstressed
	Purity 98%		+/-	8.3370	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)	200.6 µg/mL	+/-	1.1690	µg/mL	Gravimetric
	CAS # 2051-24-3 (Lot ER071509-01)		+/-	6.3563	µg/mL	Unstressed
	Purity 99%		+/-	8.3043	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

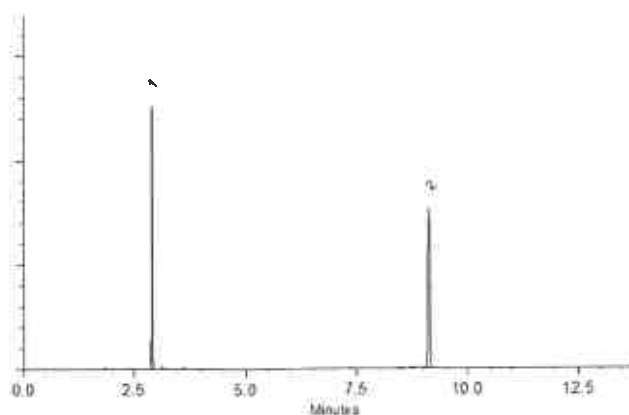
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckal - Mix Technician

Date Mixed: 29-Aug-2018 Balance: B707717271


Justin Albertson - Operations Tech-ARIS GC

Date Passed: 04-Sep-2018

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

GCpest/pcbINT_00006



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32279 **Lot No.:** A0157061
Description : 1-Bromo-2-nitrobenzene Standard
1-Bromo-2-nitrobenzene Standard 1000 µg/mL, Acetone, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2023 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1-Bromo-2-nitrobenzene	1,001.0 µg/mL	+/- 5.9456 µg/mL Gravimetric
	CAS # 577-19-5 (Lot 643872/1)		+/- 56.1383 µg/mL Unstressed
	Purity 99%		+/- 57.4512 µg/mL Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Reagent

GCPESTAB3STD_00004



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

AB#3



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32415 **Lot No.:** A0137734

Description : Organochlorine Pesticide Mix AB #3

Organochlorine Pesticide Mix AB #3 2,000 µg/mL, Hexane/Toluene (50:50), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2022 **Storage:** 10°C or colder

Handling: Sonicate prior to use.

Rec'd
10-26-18

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)	
1	alpha-BHC CAS # 319-84-6 Purity 99% (Lot 0911942)	2,016.5 µg/mL	+/- 11.8340 +/- 91.8500 +/- 132.6190	µg/mL Gravimetric Unstressed Stressed
2	gamma-BHC (Lindane) CAS # 58-89-9 Purity 99% (Lot 6815700)	2,018.5 µg/mL	+/- 11.8457 +/- 91.9411 +/- 132.7505	µg/mL Gravimetric Unstressed Stressed
3	beta-BHC CAS # 319-85-7 Purity 98% (Lot BCBS8692V)	2,009.5 µg/mL	+/- 11.7928 +/- 91.5307 +/- 132.1579	µg/mL Gravimetric Unstressed Stressed
4	delta-BHC CAS # 319-86-8 Purity 99% (Lot ER02101401)	2,018.5 µg/mL	+/- 11.8457 +/- 91.9411 +/- 132.7505	µg/mL Gravimetric Unstressed Stressed
5	Heptachlor CAS # 76-44-8 Purity 99% (Lot NT060133)	2,015.0 µg/mL	+/- 11.8251 +/- 91.7817 +/- 132.5203	µg/mL Gravimetric Unstressed Stressed
6	Aldrin CAS # 309-00-2 Purity 99% (Lot 7321900)	2,014.5 µg/mL	+/- 11.8222 +/- 91.7589 +/- 132.4874	µg/mL Gravimetric Unstressed Stressed
7	Heptachlor epoxide (isomer B) CAS # 1024-57-3 Purity 99% (Lot ER121511-01)	2,007.5 µg/mL	+/- 11.7811 +/- 91.4401 +/- 132.0271	µg/mL Gravimetric Unstressed Stressed

8	trans-Chlordane CAS # 5103-74-2 Purity 99%	(Lot ER061906-04)	2,009.0 µg/mL	+/- +/- +/-	11.7899 91.5084 132.1257	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	cis-Chlordane CAS # 5103-71-9 Purity 99%	(Lot ER062410-01)	2,008.0 µg/mL	+/- +/- +/-	11.7841 91.4628 132.0599	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	Endosulfan I CAS # 959-98-8 Purity 99%	(Lot ER012105-02)	2,016.0 µg/mL	+/- +/- +/-	11.8310 91.8272 132.5861	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	4,4'-DDE CAS # 72-55-9 Purity 99%	(Lot GHYQG)	2,012.5 µg/mL	+/- +/- +/-	11.8105 91.6678 132.3559	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	Dieldrin CAS # 60-57-1 Purity 98%	(Lot 5709400)	1,999.2 µg/mL	+/- +/- +/-	11.7324 91.0620 131.4812	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	Endrin CAS # 72-20-8 Purity 98%	(Lot 6898800)	2,012.4 µg/mL	+/- +/- +/-	11.8101 91.6646 132.3513	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	4,4'-DDD CAS # 72-54-8 Purity 99%	(Lot HAN02-KNCK)	2,005.5 µg/mL	+/- +/- +/-	11.7694 91.3490 131.8955	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	Endosulfan II CAS # 33213-65-9 Purity 99%	(Lot 7276300)	2,018.0 µg/mL	+/- +/- +/-	11.8428 91.9183 132.7176	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	Endrin aldehyde CAS # 7421-93-4 Purity 99%	(Lot ER082306-01)	2,015.5 µg/mL	+/- +/- +/-	11.8281 91.8045 132.5532	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	4,4'-DDT CAS # 50-29-3 Purity 99%	(Lot S37912V)	2,016.5 µg/mL	+/- +/- +/-	11.8340 91.8500 132.6190	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	Endosulfan sulfate CAS # 1031-07-8 Purity 95%	(Lot BCBT8804)	2,009.3 µg/mL	+/- +/- +/-	11.7914 91.5198 132.1422	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Methoxychlor CAS # 72-43-5 Purity 99%	(Lot 7322100)	2,006.5 µg/mL	+/- +/- +/-	11.7753 91.3945 131.9613	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Endrin ketone CAS # 53494-70-5 Purity 99%	(Lot 160405JLM)	2,007.0 µg/mL	+/- +/- +/-	11.7782 91.4173 131.9942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
Solvent: Hexane/Toluene (50:50) CAS # 110-54-3/108-88-3 Purity 99%							

Column:

30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:

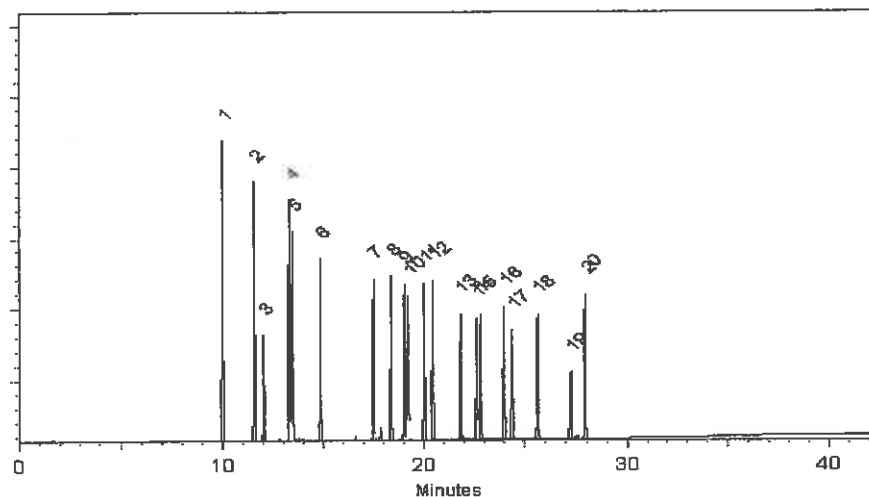
200°C

Det. Temp:

300°C

Det. Type:

ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckal - Mix Technician

Date Mixed: 03-May-2018

Balance: B442140311


Amanda Miller - Operations Tech-ARM QC

Date Passed: 18-May-2018

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

GCTBA98.0_00008



Version	00
Molecular weight	339.53
Quality Test / Release Date	06/06/2018
Molecular Formula	C16 H35 N . H2 S O4
CAS No	32503-27-8
Linear Formula	[CH3(CH2)3]4NHSO4
Flash Point (°C)	

Certificate of Analysis

This is to certify that units of the above mentioned lot number were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Acros Organics expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Unless otherwise stated, these products are not intended for dialysis, parenteral, or injectable use without further processing. The following are the actual analytical results obtained:

Catalog Number	16838	Quality Test / Release Date 06/06/2018
Lot Number	A0397220	
Description	Tetrabutylammonium hydrogen sulfate, 98%	
Country of Origin	INDIA	
Declaration of Origin	synthetic	

BSE/TSE comment	
------------------------	--

Chemical Comment	
-------------------------	--

Result name	Units	Specifications	Test Value
Appearance (Color)		White to off-white	White
Appearance (Form)		Crystalline powder or crystals	Crystalline powder
Infrared spectrum		Authentic	Authentic
Melting point		168°C to 173°C	172°C
Titration with NaOH		>=97.5 %	100 %



A handwritten signature in black ink, which appears to read "L. Van den Broek".

L. Van den Broek, QA Manager

Issued: 06-07-2018

Acros Organics
 ENA23, zone1, nr 1350, Janssen Pharmaceuticaaan 3a, B-2440 Geel, Belgium
 Tel +32 14/57.52.11 - Fax +32 14/59.34.34 Internet: <http://www.acros.com>
 1 Regent Lane, Fair Lawn, NJ 07410, USA Fax 201-796-1329

Reagent

GCTCMXSTD_00012

Certificate of Analysis

Product Name: 2,4,5,6-Tetrachloro-m-xylene Standard

Product Number: IST-440-1

Lot Issue Date: 28-Jun-2021

Lot Number: 0006612638

Expiration Date: 31-Jul-2025

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration \pm Uncertainty
2,4,5,6-tetrachloro-m-xylene	000877-09-8	RM18673	2005 \pm 10 μ g/mL

Matrix: acetone

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:


Monica Bourgeois
QMS Representative



ISO 17034 Cert
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026
Page: 1 of 1

www.agilent.com/quality/
CSD-QA-015.1



ISO 17025 Cert
No. AT-1937

Reagent

GCTOXSTDSTD_00003



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 32071 Lot No.: A0155399
Description: Toxaphene Standard
Toxaphene Standard 5,000 µg/mL, Isooctane, 1mL/ampul
Container Size: 2 mL Pkg Amt: > 1 mL
Expiration Date: February 29, 2024 Storage: 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Toxaphene	5,010.0 µg/mL	+/-	29.4015	µg/mL	Gravimetric
	CAS # 8001-35-2 (Lot 0006492075)		+/-	158.7868	µg/mL	Unstressed
	Purity ----%		+/-	207.4284	µg/mL	Stressed

Solvent: Isooctane
CAS # 540-84-1
Purity 99%

TOX 1320

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

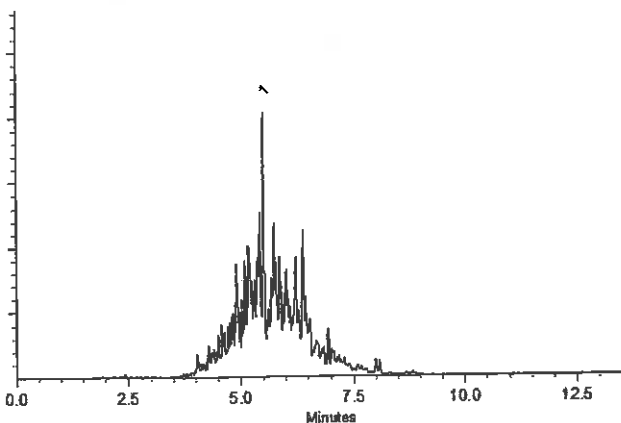
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

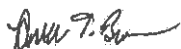
Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Russ Bookhamer - Operations Technician I

Date Mixed: 26-Nov-2019

Balance: 1128360905


Justin A. Albertson - Operations Tech-ARRE QC

Date Passed: 03-Dec-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

Herb (RTS) spk_00013



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569750 **Lot No.:** A0164201

Description : Herbicide LCS RTS (2015)
Herbicide LCS RTS (2015) 5-2000 µg/mL, Methanol, 25mL/bottle

Container Size : 25 mL **Pkg Amt:** > 25 mL

Expiration Date : September 30, 2022 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	2,4,5-T	5.0 µg/mL	+/-	0.0434	µg/mL	Gravimetric
	CAS # 93-76-5 (Lot 8815100)		+/-	0.2679	µg/mL	Unstressed
	Purity 99%		+/-	0.2683	µg/mL	Stressed
2	2,4,5-TP (silvex)	5.0 µg/mL	+/-	0.0434	µg/mL	Gravimetric
	CAS # 93-72-1 (Lot 10036700)		+/-	0.2679	µg/mL	Unstressed
	Purity 99%		+/-	0.2683	µg/mL	Stressed
3	2,4-D	20.1 µg/mL	+/-	0.1560	µg/mL	Gravimetric
	CAS # 94-75-7 (Lot 9964300)		+/-	1.0719	µg/mL	Unstressed
	Purity 99%		+/-	1.0737	µg/mL	Stressed
4	2,4-DB	20.0 µg/mL	+/-	0.1558	µg/mL	Gravimetric
	CAS # 94-82-6 (Lot 9276100)		+/-	1.0709	µg/mL	Unstressed
	Purity 99%		+/-	1.0726	µg/mL	Stressed
5	Dalapon	20.0 µg/mL	+/-	0.1552	µg/mL	Gravimetric
	CAS # 75-99-0 (Lot 10455100)		+/-	1.0669	µg/mL	Unstressed
	Purity 94%		+/-	1.0687	µg/mL	Stressed
6	Dicamba	10.0 µg/mL	+/-	0.0780	µg/mL	Gravimetric
	CAS # 1918-00-9 (Lot 10580800)		+/-	0.5362	µg/mL	Unstressed
	Purity 98%		+/-	0.5371	µg/mL	Stressed
7	Dichlorprop	20.1 µg/mL	+/-	0.1561	µg/mL	Gravimetric
	CAS # 120-36-5 (Lot 10280100)		+/-	1.0730	µg/mL	Unstressed
	Purity 99%		+/-	1.0748	µg/mL	Stressed

8	Dinoseb CAS # 88-85-7 Purity 99%	(Lot 50001)	20.1 µg/mL	+/- 0.1560 +/- 1.0719 +/- 1.0737	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	MCPA CAS # 94-74-6 Purity 98%	(Lot 10591500)	2,000.9 µg/mL	+/- 11.6332 +/- 106.4195 +/- 106.5978	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	MCP (Mecoprop) CAS # 93-65-2 Purity 99%	(Lot 10558500)	2,000.9 µg/mL	+/- 11.6334 +/- 106.4213 +/- 106.5996	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Pentachlorophenol CAS # 87-86-5 Purity 99%	(Lot 200820KJ)	5.0 µg/mL	+/- 0.0434 +/- 0.2679 +/- 0.2683	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	Picloram CAS # 1918-02-1 Purity 98%	(Lot CY2QG)	20.1 µg/mL	+/- 0.1562 +/- 1.0735 +/- 1.0753	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%


Matt Fragassi - Mix Technician

Date Mixed: 08-Sep-2020

Balance: 1128342314

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Specific Reference Material Notes:

Failure to derivatize this standard will lead to incorrect quantitative results.

Reagent

LPTCLPSpike_00020



CERTIFICATE OF ANALYSIS

Multi-Element Aqueous CRM

Product #: TA-CM-JAN21-PIT3

TCLP-SPIKE

Lot #: 10125125-1

Matrix: 2% HNO₃

Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty
Ag	100.1 ± 0.5 µg/mL	Cd	100.1 ± 0.5 µg/mL	Se	100.1 ± 0.5 µg/mL
As	500.1 ± 2.5 µg/mL	Cr	500.1 ± 2.5 µg/mL		
Ba	5000 ± 25 µg/mL	Pb	500.1 ± 2.5 µg/mL		

Source Material Lot # Chart

Element	Source Material Lot #	Element	Source Material Lot #	Element	Source Material Lot #
Ag	983032	Cd	983033	Se	929078
As	981756	Cr	880115		
Ba	994427	Pb	1035677		

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to ISO 17034, ISO/IEC 17025 and ISO 9001. This CRM was prepared to the certified concentrations shown above by gravimetric methods, using single-element concentrates that were certified using the "High Performance ICP-OES" protocol developed by NIST and are directly traceable to NIST SRMs (see final page). The solution was diluted with filtered (0.22 µm), 18 M-ohm deionized water and stabilized the appropriate high-purity acid(s) as indicated in the listed matrix. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. Secondary verification of the certified concentrations was performed using ICP-OES that was calibrated and/or referenced against NIST SRMs (see final page). The uncertainty associated with each certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for 18 months from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau, Certifying Officer

March 3, 2021
Certification Date

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

USA
5580 Skylane Boulevard P: 707.525.5788
Santa Rosa, CA 95403 P: 800.878.7654
F: 707.545.7901

Europe
Nieuwe Hemweg 7P P: +31 20 638 05 97
1013BG Amsterdam F: +31 20 420 28 36
The Netherlands
www.cpiinternational.com

Health and Safety Information: Refer to the Safety Data Sheet (SDS).

Homogeneity: This solution was determined to be homogeneous by procedures consistent with the requirements of ISO 17034 and ISO Guide 35. Replicate samples of the finished solution were analyzed to confirm its homogeneity, in accordance with internal procedures for the assessment of homogeneity and stability. To ensure homogeneity, users should not take a smaller sub-sample than specified in the Instructions for Use, as doing so will invalidate the certified values and uncertainties.

Quality Manual Rev: No. 7, July 24, 2019

Further Information: Please contact CPI International for further information about this material.

Quality Certifications: This material was prepared under a quality management system that is registered/accredited to the following:

- ISO 17034 Accredited: Reference Materials Producer, A2LA Certificate No. 2848.02 – General Requirements for the Competence of Reference Material Producers
 - ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35
- ISO/IEC 17025 Accredited: Chemical Testing, A2LA Certificate No. 2848.01 – General Requirements for the Competence of Testing and Calibration Laboratories
- ISO 9001 Certified: Quality Management Systems, Certificate Registration No. 55 100 19560101 – Requirements (Registrar: TUV NORD)

This CRM is traceable to the following NIST SRMs:

Analyte	Aq. SRM	MO SRM	Analyte	Aq. SRM	MO SRM	Analyte	Aq. SRM	MO SRM
Ag	3151	-	Hf	3122	-	S	3154	2770
Al	3101a	-	Hg	3133	3133	Sb	3102a	3102a
As	3103a	3103a	Ho	3123a	-	Sc	3148a	3148a
Au	3121	-	In	3124a	3124a	Se	3149	3149
B	3107	3107	K	3141a	3141a	Si	3150	-
Ba	3104a	-	La	3127a	3127a	Sm	3147a	-
Be	3105a	3105a	Li	3129a	3129a	Sn	3151a	-
Bi	3106	3106	Lu	3130a	-	SO ₄ ²⁻	3181	-
Br	3184	-	Mg	3131a	3131a	Sr	3153a	3153a
Ca	3109a	3109a	Mn	3132	3132	Ta	3155	-
Cd	3108	-	Mo	3134	3134	Tb	3157a	-
Ce	3110	3110	Na	3152a	-	Te	3156	-
Cl	3182	3182a	Nb	3137	-	Th	-	-
Co	3113	3113	Nd	3135a	-	Ti	3162a	3162a
Cr	3112a	-	Ni	3136	-	Tl	3158	3158
Cs	3111a	-	NO ₃	3185	-	Tm	3160a	-
Cu	3114	-	P	3139a	3139a	U	3164	-
Dy	3115a	-	Pb	3128	-	V	3165	-
Er	3116a	-	Pd	3138	-	W	3163	3163
Eu	3117a	-	PO ₄ ³⁻	3186	-	Y	3167a	3167a
F	3183	-	Pr	3142a	-	Yb	3166a	-
Fe	3125a	-	Pt	3140	3140	Zn	3168a	3168a
Ga	3119a	-	Rb	3145a	-	Zr	3169	3169
Gd	3118a	-	Re	3143	-			
Ge	3120a	-	Rh	3144	3144			

Reagent

M6500ICSA_00013

CERTIFICATE OF ANALYSIS

Multi-Element Aqueous CRM

Product #: TA-ICP-ICSA

ICP ICSA Mix

Lot #: 1121422-1

Matrix: 5% HNO₃

Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty
Al	5000 ± 25 mg/L	Fe	2000 ± 10 mg/L
Ca	5000 ± 25 mg/L	Mg	5000 ± 25 mg/L

Source Material Lot # Chart

Element	Source Material Lot #	Element	Source Material Lot #
Al	1077624	Fe	1114543
Ca	1121798	Mg	1075231

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to, **ISO 17034, ISO/IEC 17025 and ISO 9001**. This CRM was prepared to the certified concentrations shown above by gravimetric methods, using single-element concentrates that were certified using the "High Performance ICP-OES" protocol developed by NIST and are directly traceable to **NIST SRMs (see reverse side)**. The solution was stabilized using high purity nitric acid (HNO₃) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentrations were determined based upon gravimetric procedures. Secondary verification of the certified concentrations was performed using ICP-OES that was calibrated and/or referenced against **NIST SRMs (see reverse side)**. The uncertainty associated with each certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.



Chuck Goudreau, Certifying Officer

September 13, 2021
Certification Date

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

Health and Safety Information: Refer to the Safety Data Sheet (SDS).

Homogeneity: This solution was determined to be homogeneous by procedures consistent with the requirements of ISO 17034 and ISO Guide 35. Replicate samples of the finished solution were analyzed to confirm its homogeneity, in accordance with internal procedures for the assessment of homogeneity and stability. To ensure homogeneity, users should not take a smaller sub-sample than specified in the Instructions for Use, as doing so will invalidate the certified values and uncertainties.

Quality Manual Rev: No. 7, July 24, 2019

Further Information: Please contact CPI International for further information about this material.

Quality Certifications: This material was prepared under a quality management system that is registered/accredited to the following:

- ISO 17034 Accredited: Reference Materials Producer, A2LA Certificate No. 2848.02 – General Requirements for the Competence of Reference Material Producers
 - ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35
- ISO/IEC 17025 Accredited: Chemical Testing, A2LA Certificate No. 2848.01 – General Requirements for the Competence of Testing and Calibration Laboratories
- ISO 9001 Certified: Quality Management Systems, Certificate Registration No. 56 100 19560101 – Requirements
(Registrar: TUV NORD)

This CRM is traceable to the following NIST SRMs:

Analyte	Aq. SRM	MO SRM	Analyte	Aq. SRM	MO SRM	Analyte	Aq. SRM	MO SRM
Ag	3151	-	Hf	3122	-	S	3154	2770
Al	3101a	-	Hg	3133	3133	Sb	3102a	3102a
As	3103a	3103a	Ho	3123a	-	Sc	3148a	3148a
Au	3121	-	In	3124a	3124a	Se	3149	3149
B	3107	3107	K	3141a	3141a	Si	3150	-
Ba	3104a	-	La	3127a	3127a	Sm	3147a	-
Be	3105a	3105a	Li	3129a	3129a	Sn	3161a	-
Bi	3106	3106	Lu	3130a	-	SO ₄ ²⁻	3181	-
Br	3184	-	Mg	3131a	3131a	Sr	3153a	3153a
Ca	3109a	3109a	Mn	3132	3132	Ta	3155	-
Cd	3108	-	Mo	3134	3134	Tb	3157a	-
Ce	3110	3110	Na	3152a	-	Te	3156	-
Cl ⁻	3182	1818a	Nb	3137	-	Th	-	-
Co	3113	3113	Nd	3135a	-	Ti	3162a	3162a
Cr	3112a	-	Ni	3136	-	Tl	3158	3158
Cs	3111a	-	NO ₃ ⁻	3185	-	Tm	3160a	-
Cu	3114	-	P	3139a	3139a	U	3164	-
Dy	3115a	-	Pb	3128	-	V	3165	-
Er	3116a	-	Pd	3138	-	W	3163	3163
Eu	3117a	-	PO ₄ ³⁻	3186	-	Y	3167a	3167a
F ⁻	3183	-	Pr	3142a	-	Yb	3166a	-
Fe	3126a	-	Pt	3140	3140	Zn	3168a	3168a
Ga	3119a	-	Rb	3145a	-	Zr	3169	3169
Gd	3118a	-	Re	3143	-			
Ge	3120a	-	Rh	3144	3144			

Reagent

MCGHG1-1_00016



4368406
ID: MCGHG1-1_00016
Exp: 11/24/22 Prod: EUR Opn: 07/27/21
Hg Stock solution CAL

RECEIVED
6/21/21
BKR

CERTIFICATE OF ANALYSIS

Single-Element Aqueous CRM

Product #: S4400-1000331

Mercury (Hg) – 1000 µg/mL

Lot #: 1084154-49

Matrix: 2% HNO₃

Element	Certified Concentration & Uncertainty
Hg	1004 ± 5 µg/mL (w/v)
	989.0 ± 5.0 µg/g (w/w)

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 17034, ISO/IEC 17025 and ISO 9001**. This CRM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.9% pure mercury (Hg) metal. The solution was diluted with filtered (0.22µm), 18 M-ohm water and stabilized with the appropriate high-purity acid as indicated in the listed matrix. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration and uncertainty were determined using the "High Performance ICP-OES" protocol developed by NIST, and both the certified concentration and uncertainty values are traceable to **NIST SRM 3133, lot #160921**. The uncertainty associated with the certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)									
Ag	<0.5	Co	<1	Ge	<0.5	Lu	<0.2	P	<100
Al	<2	Cs	<0.5	Hf	<0.2	Mg	<5	Pb	<1
As	<2	Cr	<0.5	Hg	MAJOR	Mn	<1	Pd	<0.5
Au	13	Cu	2	Ho	<0.2	Mo	<0.5	Pr	<0.2
B	<5	Dy	<0.2	In	nd	Na	<25	Pt	<0.5
Ba	<1	Er	<0.2	Ir	<0.2	Nb	<0.5	Rb	<0.5
Bi	<0.2	Eu	<0.2	K	<25	Nd	<0.2	Re	<0.2
Ca	<25	Fe	<10	La	<0.5	Ni	<2	Rh	<0.5
Cd	56	Ga	<0.5	Li	<2	Os	<0.5	Ru	<0.5
Ce	<0.2	Gd	<0.2					Tb	<0.5
								Te	<1
								Ti	<2
								Tl	<0.5
								Tm	<0.2
								V	<1
								W	<0.5
								Y	<0.5
								Yb	<0.2
								Zn	<2

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau, Certifying Officer

May 24, 2021
Certification Date

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

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1013BG Amsterdam F: +31 20 420 28 36
The Netherlands

Health and Safety Information: Refer to the Safety Data Sheet (SDS).

Homogeneity: This solution was determined to be homogeneous by procedures consistent with the requirements of ISO 17034 and ISO Guide 35. Replicate samples of the finished solution were analyzed to confirm its homogeneity, in accordance with internal procedures for assessment of homogeneity and stability. To ensure homogeneity, users should not take a smaller sub-sample than specified in the Instructions for Use, as doing so will invalidate the certified values and uncertainties.

Quality Manual Rev No. 7, July 24, 2019

Further Information: Please contact CPI International for further information about this material.

Quality Certifications: This material was prepared under a quality management system that is registered/accredited to the following:

- ISO 17034 Accredited: Reference Materials Producer, Certificate No. 2848.02 – General Requirements for the Competence of Reference Material Producers
 - ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35
- ISO/IEC 17025 Accredited: Chemical Testing, Certificate No. 2848.01 – General Requirements for the Competence of Testing and Calibration Laboratories
- ISO 9001 Certified: Quality Management Systems, Certificate Registration No. 56 100 19560101 – Requirements
(Registrar: TUV NORD)

Reagent

MHGICV-1_00012

Certificate of Analysis

Certified Reference Material

Product Description: Mercury

Product Number: **HP100033-1-100**
Lot Number: **2107432-100EE**
Matrix: **2% HNO₃**
Density: **1.014 g/mL ± 0.002 g/mL @ 22.0°C ± 0.3°C**

Certified Value:

Element	µg/mL	SRM ID
Hg	1000 ± 6	3133

The Certified value is based on gravimetric and volumetric preparation, and verified against NIST SRM 3100 series when available via inductively coupled plasma optical emission spectrometry (ICP-OES) and/or inductively coupled plasma mass spectrometry (ICP-MS) using an internal laboratory-developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor k is about 2.

* Refer to Traceability Information, Section 4

Uncertified Values:

Trace Metal Impurity Scan: The data reported are based upon a scan of this specific lot via ICP-OES/ICP-MS analysis. The values are reported in µg/L.

Ag	7	Cu	<0.02	La	<0.02	Pt	<2	Te	<0.02
Al	<0.3	Dy	<0.02	Li	<0.02	Rb	<0.02	Th	<0.02
As	na	Er	<0.02	Lu	<0.02	Re	<0.02	Ti	<0.02
Au	<0.02	Eu	<0.02	Mg	<0.1	Rh	<0.02	Tl	<0.02
B	<1	Fe	<1	Mn	<0.5	Ru	<0.02	Tm	<0.02
Ba	<0.02	Ga	<0.02	Mo	<0.02	Sb	<0.02	U	<0.05
Be	<0.02	Gd	<0.02	Na	<3	Sc	<3	V	<0.05
Bi	<0.02	Ge	<0.02	Nb	<0.02	Se	<0.1	W	<0.02
Ca	<1	Hf	<0.02	Nd	<0.02	Si	<5	Y	<0.02
Cd	<0.02	Hg	M	Ni	<0.6	Sm	<0.02	Yb	<0.02
Ce	<0.02	Ho	<0.02	Os	<2	Sn	<0.5	Zn	<0.02
Co	<0.05	In	<0.02	Pb	<0.05	Sr	<0.02	Zr	<0.02
Cr	<0.05	Ir	<0.02	Pd	<0.02	Ta	<0.02		
Cs	na	K	<1	Pr	<0.02	Tb	<0.02		

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Expiration Information:

The expiry date is guaranteed to be valid for eighteen months from the shipping date provided and is guaranteed through the month of expiration. For this reason, standards from the same lot may have different expiration dates.

Shipped Date: July 2021
Expiration Date: January 31, 2023
Certificate Issue Date: April 26, 2021

Moven Mututurari
Moven Mututurari, Ph. D, VP Manufacturing

Preparation Information:

This standard is prepared using **99.9993% pure Mercury Metal** which was purchased from a qualified vendor per ISO 9001 guidelines and assayed by analytical methods for conformity prior to use. This standard was manufactured under appropriate laboratory conditions using the methods developed at NIST for SRM Spectrometric Standard Solutions. Sub-boiling distilled high-purity acid has been used to place the materials in solution and stabilize the standard. The matrix is as noted above in 18 megaohm deionized water. Stability of this product is based upon rigorous short-term and long-term testing of the solution for the certified value. This testing includes, but is not limited to, the effect of temperature and packaging on the product. If, during the period of validity, a recall is instituted due to substantial changes in the stability of this product, the purchaser will be notified.

Homogeneity:

This product is determined to be homogeneous following in-house procedures developed in accordance with the requirements of ISO 17034 and ISO Guide 35.

Intended Use:

This product is intended for use as a calibration standard, quality control standard, and/or for the validation of analytical methods. The standard is confirmed homogeneous; therefore, the minimum sample size should be consistent with the end user's measurement capabilities.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

1. **Standard Weight and Analytical Balance**

The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in 'NIST Weights and Measures Measurement Assurance Program' with a certificate of measurement traceability to NIST primary standards. The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

2. **Volumetric Device**

The calibrations of volumetric vessels are verified using the ASTM method E542.

3. **Thermometer**

The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

4. **Calibration Standards**

The Calibration Standard is traceable to SRM 3100 Series Spectrometric Standard Solutions. If an SRM is not available, a second source standard or independent lot is used.

Accreditation:

This CRM was manufactured by an ISO 17025:2017 chemical testing lab (Certificate number AT-1529) and ISO 17034:2016 Reference Material Producer (RMP) Certificate number AR-1436 accredited by ANSI National Accreditation Board (ANAB).

Refer to Safety Datasheet (SDS) for hazardous information.

NOTICE: Environmental Express products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from Environmental Express.

Reagent

MLI1000_00003

CERTIFICATE OF ANALYSIS

Single-Element Aqueous CRM

Product #: TA-1000291

SE Std Lithium (Li) – 1000 µg/mL

Product Lot #: 1094768-25

Matrix: 5% HNO₃

Source Material Lot #: 1084156

Element	Certified Concentration & Uncertainty
Li	993 ± 5 µg/mL (w/v)
	983 ± 5 µg/g (w/w)

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO 17034**, and **ISO/IEC 17025**. This CRM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.999% pure lithium carbonate (Li₂CO₃) dissolved in high purity nitric acid (HNO₃) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration and uncertainty were determined using the "High Performance ICP-OES" protocol developed by NIST, and both the certified concentration and uncertainty values are traceable to **NIST SRM 3129a, lot #100714**. The uncertainty associated with the certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	42	Co	<1	Ge	<0.5	Lu	<0.2	P	<100	Sb	<0.5	Te	<1
Al	27	Cs	0.6	Hf	<0.2	Mg	<5	Pb	<1	Sc	<5	Ti	<2
As	<2	Cr	<0.5	Hg	<0.5	Mn	<1	Pd	<0.5	Se	<2	Tl	<0.5
Au	<0.5	Cu	<1	Ho	<0.2	Mo	<0.5	Pr	<0.2	Si	<100	Tm	<0.2
B	<5	Dy	<0.2	In	nd	Na	44	Pt	<0.5	Sm	<0.2	V	<1
Ba	2	Er	<0.2	Ir	<0.2	Nb	<0.5	Rb	<0.5	Sn	0.7	W	<0.5
Bi	<0.2	Eu	<0.2	K	<25	Nd	<0.2	Re	<0.2	Sr	2	Y	<0.5
Ca	<25	Fe	<10	La	<0.5	Ni	<2	Rh	<0.5	Ta	<0.5	Yb	<0.2
Cd	<0.5	Ga	<0.5	Li	MAJOR	Os	<0.5	Ru	<0.5	Tb	<0.5	Zn	3
Ce	<0.2	Gd	<0.2										

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.



Chuck Goudreau, Certifying Officer

June 24, 2021

Certification Date

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

Reagent

MTAPITTCALTRA_00013

300 Technology Drive
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inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
Catalog Number: TAPITT-CAL-TRA
Lot Number: S2-MEB704932
Matrix: 3% (v/v) HNO₃
Value / Analyte(s):
100 µg/mL ea: Silver, Thallium,
50 µg/mL ea: Arsenic, Cadmium,
Lead, Antimony,
Selenium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	50.05 ± 0.39 µg/mL	Arsenic, As	49.98 ± 0.32 µg/mL
Cadmium, Cd	49.98 ± 0.22 µg/mL	Lead, Pb	50.06 ± 0.22 µg/mL
Selenium, Se	50.00 ± 0.35 µg/mL	Silver, Ag	100.0 ± 0.4 µg/mL
Thallium, Tl	100.0 ± 0.6 µg/mL		

Density: 1.014 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum (1/u_{\text{char } i}^2))$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{ITS}}^2 + u_{\text{TS}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum (w_i)^2 (u_{\text{char } i}^2)]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ITS} = long term stability standard uncertainty (storage)

u_{TS} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{ITS}}^2 + u_{\text{TS}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ITS} = long term stability standard uncertainty (storage)

u_{TS} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ($\mu\text{g/mL}$)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 03, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 03, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Reagent

MTAPITTCALTRC_00013

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
Catalog Number: TAPITT-CAL-TRC-REV
Lot Number: S2-MEB704934
Matrix: 3% (v/v) HNO₃
Value / Analyte(s): 200 µg/mL ea:
Boron, Barium,
Beryllium, Cobalt,
Chromium, Copper,
Lithium, Manganese,
Nickel, Strontium,
Vanadium, Zinc

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Barium, Ba	200.1 ± 0.9 µg/mL	Beryllium, Be	200.1 ± 1.3 µg/mL
Boron, B	200.0 ± 1.4 µg/mL	Chromium, Cr	200.3 ± 1.5 µg/mL
Cobalt, Co	199.9 ± 0.9 µg/mL	Copper, Cu	199.8 ± 0.8 µg/mL
Lithium, Li	199.8 ± 0.8 µg/mL	Manganese, Mn	199.9 ± 0.8 µg/mL
Nickel, Ni	200.1 ± 0.9 µg/mL	Strontium, Sr	199.9 ± 0.8 µg/mL
Vanadium, V	200.0 ± 0.9 µg/mL	Zinc, Zn	200.0 ± 0.8 µg/mL

Density: 1.024 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	110830
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Li	ICP Assay	3129a	100714
Li	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Sr	EDTA	928	928
Sr	ICP Assay	Traceable to 3153a	K2-SR650985
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i})^2 / (\sum (1/u_{\text{char } i})^2)$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum (w_i)^2 (u_{\text{char } i})^2]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 03, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 03, 2025**

- The date after which this CRM/RM should not be used.
- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Reagent

MTAPITTCALTRD_00014

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
Catalog Number: TAPITT-CAL-TRD
Lot Number: S2-MEB704935
Matrix: 5% (v/v) HNO₃
tr. HF
Value / Analyte(s): 200 µg/mL ea:
Molybdenum, Silicon,
Tin, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Molybdenum, Mo	199.9 ± 1.0 µg/mL	Silicon, Si	200.2 ± 1.5 µg/mL
Tin, Sn	199.9 ± 1.3 µg/mL	Titanium, Ti	200.0 ± 1.4 µg/mL

Density: 1.024 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Mo	ICP Assay	3134	130418
Si	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum (1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum (w_i)^2 (u_{char i}^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 03, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 03, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Reagent

MTAPITTCPICV_00018



Reference Materials Producer
Cert #2495.01

SPEXertificate®

Certificate of Reference Material



Chemical Testing
Cert #2495.02

Catalog Number: XCAL-59-250

Lot No. 17-037AB

Description: Custom Assurance Standard

Matrix: 10% HNO₃ / Tr. Tart. Acid / Tr. HF

This **ASSURANCE®** Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for analytical instrumentation such as ICP-OES, DCP, AA, ICP-MS, and XRF. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

The CRM is prepared from high purity single element concentrates of individual elements using Class A laboratory ware to give precise concentrations.

Instrumental Analysis by ICP Spectrometer:

Analyte	Labeled	Uncertainty	SRM	Analyte	Labeled	Uncertainty	SRM
K	2500 µg/mL	±50 µg/mL	3141a*	Ni	50 µg/mL	±1 µg/mL	3136*
Na	2500 µg/mL	±50 µg/mL	3152a*	Si	50 µg/mL	±1 µg/mL	3150*
Ca	1250 µg/mL	±30 µg/mL	3109a*	Sn	50 µg/mL	±1 µg/mL	3161a*
Mg	1250 µg/mL	±30 µg/mL	3131a*	Sr	50 µg/mL	±1 µg/mL	3153a*
Al	625 µg/mL	±10 µg/mL	3101a*	Ti	50 µg/mL	±1 µg/mL	3162a*
Fe	625 µg/mL	±10 µg/mL	3126a*	V	50 µg/mL	±1 µg/mL	3165*
B	50 µg/mL	±1 µg/mL	3107*	Zn	50 µg/mL	±1 µg/mL	3168a*
Ba	50 µg/mL	±1 µg/mL	3104a*	Ag	25 µg/mL	±0.5 µg/mL	3151*
Be	50 µg/mL	±1 µg/mL	3105a*	Tl	25 µg/mL	±0.5 µg/mL	3158*
Co	50 µg/mL	±1 µg/mL	3113*	As	12.5 µg/mL	±0.3 µg/mL	3103a*
Cr	50 µg/mL	±1 µg/mL	3112a*	Cd	12.5 µg/mL	±0.3 µg/mL	3108*
Cu	50 µg/mL	±1 µg/mL	3114*	Pb	12.5 µg/mL	±0.3 µg/mL	3128*
Li	50 µg/mL	±1 µg/mL	3129a*	Sb	12.5 µg/mL	±0.3 µg/mL	3102a*
Mn	50 µg/mL	±1 µg/mL	3132*	Se	12.5 µg/mL	±0.3 µg/mL	3149*
Mo	50 µg/mL	±1 µg/mL	3134*				

* - indicates NIST SRM

† - indicates SPEX CertiPrep CRM (when NIST SRM is not available)

SPEX CertiPrep Reference Multi: Lot# MULTI1YP

Balances are calibrated regularly with weight sets traceable to NIST#s 32856, 32867 and others. This CRM is guaranteed stable and accurate to ±2% of the labeled value. This includes uncertainty components due to preparation, measurement, homogeneity, and short-term and long-term stability. This guarantee is valid for a period of one year from the date of certification only when the material is kept tightly capped and stored under ambient laboratory conditions.

Date of Certification:

AUG - - 2021

Certifying Officer:

Katherine Cullinan
Katherine Cullinan, QC Manager

Page 1 of 2
Rev. 0

Report of Certification

This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001 (certified by DQS), ISO/IEC 17025 (accredited by A2LA) and ISO 17034 (accredited by A2LA) quality system consistent with the following guides:

- ISO 9001: Quality management systems – Requirements
- ISO/IEC 17025: General requirements for the competence of testing and calibration laboratories
- ISO 17034: General requirements for the competence of reference material producers
- ISO Guide 30: Reference Materials – Selected terms and definitions
- ISO Guide 31: Reference Materials – Contents of certificates, labels, and accompanying documentation
- ISO Guide 35: Reference Materials – Guidance for characterization and assessment of homogeneity and stability
- Guide to the Expression of Uncertainty in Measurement, 2008
- EURACHEM/CITAC Guide: Qualifying Uncertainty in Analytical Measurement – Third Edition
- NIST Technical Note 1297

Material Source:

All analytes and matrix materials are obtained and verified by Spex CertiPrep from pre-qualified vendors as per ISO 9001, ISO/IEC 17025 and ISO 17034 guidelines. Vendor identifications are proprietary; however, sources of all materials used in the preparation and testing of Spex CertiPrep CRMs are tracked and documented. For further assistance, please contact Sales Support at CRMSales@spex.com.

Instructions for Use:

Primary usage of this CRM is in neat form or diluted serially with matrix of a purity at or greater than the purity of the original matrix solution. If dilution is required, the diluent must be compatible with all certified analytes and contain stabilizers appropriate for the period of intended use. The CRM can also be used as a spike or with a spike, again with appropriate compatibility considerations. All solutions should be thoroughly mixed, by shaking, prior to use and never pipetted directly from the bottle. Do not return excess solution to the bottle. All surfaces that come in contact with the solution must be thoroughly cleaned and leached prior to use. Dilutions should be performed only with Class A volumetric glassware. See SDS for health and safety information.

Method of Preparation:

Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, analytical instrumentation and personnel have been qualified prior to use. The highest purity acids applicable, 18 megohm, double deionized water, acid-leached triple-rinsed bottles (where appropriate), and Class A/calibrated volumetrics have been used in all preparations.

Homogeneity:

The homogeneity of the CRM has been confirmed by procedures consistent with ISO/IEC 17025, ISO 17034, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4600-HOMOGEN-1A. Since the product is highly homogeneous, any sample size taken for analysis would be within the uncertainty budget. This is consistent with the intended use of the CRM.

Statistical Estimator and Confidence Limits:

The certified value 'X' listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$ where X = certified value, U = expanded uncertainty, x = property value
- $U = k u_c$ where $k = 2$ is the coverage factor at the 95% confidence level
- u_c = combined standard uncertainty obtained by combining the individual element standard uncertainty components u_i and $u_c = \sqrt{\sum u_i^2}$

Certification Report:

All certified values reported were derived from the Certification Report, Spex CertiPrep's traceability documentation, identified by the lot number of this CRM. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further assistance, please contact Sales Support at CRMSales@spex.com.

Legal Notice:

Spex CertiPrep reference materials are not for any cosmetic, drug or household application and are to be used only by qualified individuals who are trained in appropriate procedures. No claims against Spex CertiPrep, LLC. of any kind whatsoever, whether based on breach of warranty, alleged negligence, or otherwise, with respect to this Reference Material shall be greater than the purchase price. In no event shall Spex CertiPrep, LLC. be liable for any loss of profits or any incidental, special, or consequential damages.

Reagent

OPHERBRTSSURR_00013



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568751 **Lot No.:** A0165153

Description : Herbicide Surrogate RTS
Herbicide Surrogate RTS 10µg/mL, Methanol, 100mL/bottle

Container Size : 100 mL **Pkg Amt:** > 100 mL

Expiration Date : October 31, 2022 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid CAS # 19719-28-9 (Lot S30618V) Purity 99%	10.1 µg/mL	+/- 0.0710 µg/mL Gravimetric +/- 0.5369 µg/mL Unstressed +/- 0.5378 µg/mL Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Reagent

SV LST1/STD10_00005



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 Bellefonte, PA 16823-8812
 Tel: (800)356-1688
 Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



ISO 17034 Accredited
 Reference Material Producer
 Certificate #3222.01



ISO/IEC 17025 Accredited
 Testing Laboratory
 Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569731 **Lot No.:** A0164214
Description : 8270 List 1 / Std #10
8270 List 1 / Std #10 2000 µg/mL, Methylene chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : March 31, 2022 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Indene		2,007.3 µg/mL	+/-	11.6706	µg/mL Gravimetric
	CAS # 95-13-6	(Lot MKBT8433V)		+/-	112.5470	µg/mL Unstressed
	Purity 97%			+/-	115.1804	µg/mL Stressed
2	Benzoic acid		2,000.6 µg/mL	+/-	11.6318	µg/mL Gravimetric
	CAS # 65-85-0	(Lot MKCG6487)		+/-	112.1731	µg/mL Unstressed
	Purity 99%			+/-	114.7978	µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Reagent

SV2356TCPs_00005



CERTIFIED WEIGHT REPORT

Part Number: 70315
Lot Number: 030218
Description: 2,3,5,6-Tetrachlorophenol

Solvent(s): Methylene chloride
Lot# 76782

Expiration Date: 030223

Recommended Storage: Refrigerate (4 °C)

Nominal Concentration (µg/mL): 1000

NIST Test ID#: 2506734D

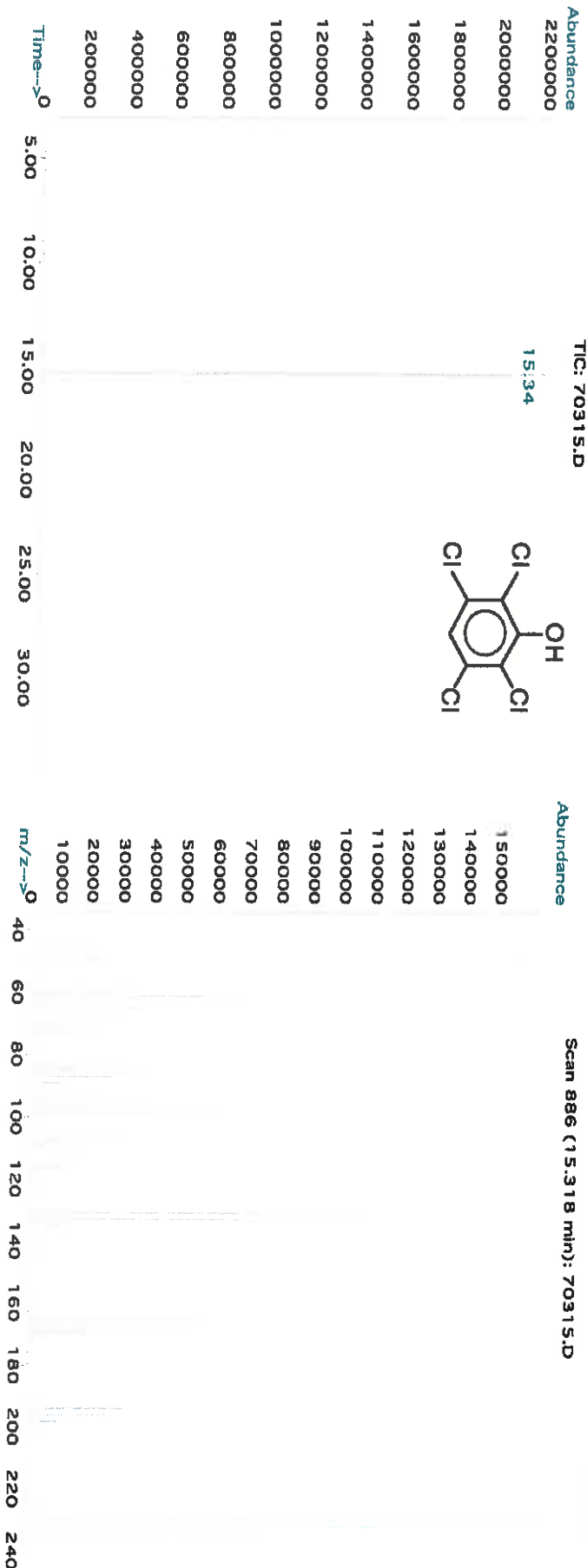
Weight(s) shown below were combined and diluted to (mL): 25.0 0.001 Balance Uncertainty Peak Uncertainty

Formulated By: Giovanni Esposito	030218
DATE	
Reviewed By: Pedro L. Rentas	030218
DATE	

Compound	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Uncertainty (+/-) (µg/mL)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.)

1. 2,3,5,6-Tetrachlorophenol 315 100317 1000 99.3 0.2 0.02517 0.02523 1002.3 5.7 995-95-5 N/A

Method GC8MSD-3.M: Column: SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1 min.), Temp 2 = 300°C (9 min.), Rate = 10°C/min., Injector B = 200°C, Detector B = 300°C, Scan Rate = 2, Split Ratio = 100:1. Analysis performed by Melissa Stortier.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Reagent

SV2NAPAMINEs_00009



Certificate of Analysis ISO Guide 34

2-Naphthylamine Standard

Product Number: EPA-1135 **Page:** 1 of 1
Lot Number: CS-5614 **Lot Issue Date:** 19-Nov-2018 **Expiration Date:** 31-Dec-2022

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

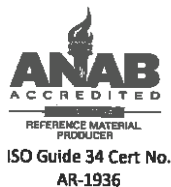
Analyte	CAS#	Analyte Lot	True Value
2-naphthylamine	000091-59-8	RM10617	1002 ± 5 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at Room Temperature (15° to 30°C).

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.


Monica Bourgeois
QMS Representative



Produced in accordance with TUV USA Inc 56 100 18560026
registered ISO 9001 Quality Management System



Reagent

SVLIST1/STD1_00008



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571995 **Lot No.:** A0168059

Description : 8270 List 1 / Std #1 MegaMix (2017)
8270 List 1 / Std #1 MegaMix (2017) 500-2000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2022 **Storage:** 0°C or colder

Handling: Carcinogen/reproductive toxin. **Ship:** Ambient
Photosensitive. Sonicate.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1,4-Dioxane CAS # 123-91-1 (Lot SHBL6661) Purity 99%	1,001.0 µg/mL	+/- 5.8199 µg/mL Gravimetric +/- 11.9660 µg/mL Unstressed +/- 19.0437 µg/mL Stressed
2	N-Nitrosodimethylamine CAS # 62-75-9 (Lot 201110JLM) Purity 99%	1,002.7 µg/mL	+/- 5.8296 µg/mL Gravimetric +/- 11.9859 µg/mL Unstressed +/- 19.0754 µg/mL Stressed
3	Pyridine CAS # 110-86-1 (Lot SHBL0433) Purity 99%	2,003.0 µg/mL	+/- 11.6456 µg/mL Gravimetric +/- 23.9440 µg/mL Unstressed +/- 38.1065 µg/mL Stressed
4	Phenol CAS # 108-95-2 (Lot MKCK1120) Purity 99%	1,000.6 µg/mL	+/- 5.8176 µg/mL Gravimetric +/- 11.9612 µg/mL Unstressed +/- 19.0361 µg/mL Stressed
5	Aniline CAS # 62-53-3 (Lot K22Z462) Purity 99%	1,000.7 µg/mL	+/- 5.8183 µg/mL Gravimetric +/- 11.9628 µg/mL Unstressed +/- 19.0387 µg/mL Stressed
6	Bis(2-chloroethyl)ether CAS # 111-44-4 (Lot SHBJ2059) Purity 99%	1,000.2 µg/mL	+/- 5.8152 µg/mL Gravimetric +/- 11.9565 µg/mL Unstressed +/- 19.0285 µg/mL Stressed
7	n-Decane (C10) CAS # 124-18-5 (Lot SHBL4313) Purity 99%	1,000.2 µg/mL	+/- 5.8152 µg/mL Gravimetric +/- 11.9565 µg/mL Unstressed +/- 19.0285 µg/mL Stressed

24	Bis(2-chloroethoxy)methane CAS # 111-91-1 Purity 99%	(Lot 9890600)	1,000.3 µg/mL	+/-	5.8160	µg/mL	Gravimetric
				+/-	11.9580	µg/mL	Unstressed
				+/-	19.0311	µg/mL	Stressed
25	2,4-Dichlorophenol CAS # 120-83-2 Purity 99%	(Lot BCBJ8113V)	1,000.8 µg/mL	+/-	5.8187	µg/mL	Gravimetric
				+/-	11.9636	µg/mL	Unstressed
				+/-	19.0399	µg/mL	Stressed
26	1,2,4-Trichlorobenzene CAS # 120-82-1 Purity 99%	(Lot SHBJ9215)	1,002.9 µg/mL	+/-	5.8308	µg/mL	Gravimetric
				+/-	11.9883	µg/mL	Unstressed
				+/-	19.0792	µg/mL	Stressed
27	Naphthalene CAS # 91-20-3 Purity 99%	(Lot MKBZ8680V)	1,000.6 µg/mL	+/-	5.8176	µg/mL	Gravimetric
				+/-	11.9612	µg/mL	Unstressed
				+/-	19.0361	µg/mL	Stressed
28	2,6-Dichlorophenol CAS # 87-65-0 Purity 99%	(Lot MKCK2863)	1,000.7 µg/mL	+/-	5.8183	µg/mL	Gravimetric
				+/-	11.9628	µg/mL	Unstressed
				+/-	19.0387	µg/mL	Stressed
29	4-Chloroaniline CAS # 106-47-8 Purity 99%	(Lot BCBJ1580V)	1,000.7 µg/mL	+/-	5.8183	µg/mL	Gravimetric
				+/-	11.9628	µg/mL	Unstressed
				+/-	19.0387	µg/mL	Stressed
30	Hexachlorobutadiene CAS # 87-68-3 Purity 98%	(Lot N21G023)	1,000.7 µg/mL	+/-	5.8182	µg/mL	Gravimetric
				+/-	11.9626	µg/mL	Unstressed
				+/-	19.0382	µg/mL	Stressed
31	4-Chloro-3-methylphenol CAS # 59-50-7 Purity 99%	(Lot STBC7309V)	1,000.7 µg/mL	+/-	5.8183	µg/mL	Gravimetric
				+/-	11.9628	µg/mL	Unstressed
				+/-	19.0387	µg/mL	Stressed
32	2-Methylnaphthalene CAS # 91-57-6 Purity 96%	(Lot STBG8884)	1,000.5 µg/mL	+/-	5.8171	µg/mL	Gravimetric
				+/-	11.9602	µg/mL	Unstressed
				+/-	19.0345	µg/mL	Stressed
33	1-Methylnaphthalene CAS # 90-12-0 Purity 99%	(Lot 523400-9)	1,001.1 µg/mL	+/-	5.8207	µg/mL	Gravimetric
				+/-	11.9676	µg/mL	Unstressed
				+/-	19.0463	µg/mL	Stressed
34	1,2,4,5-Tetrachlorobenzene CAS # 95-94-3 Purity 99%	(Lot MKCG5992)	1,000.3 µg/mL	+/-	5.8156	µg/mL	Gravimetric
				+/-	11.9573	µg/mL	Unstressed
				+/-	19.0298	µg/mL	Stressed
35	Hexachlorocyclopentadiene CAS # 77-47-4 Purity 99%	(Lot 0012019)	1,000.3 µg/mL	+/-	5.8156	µg/mL	Gravimetric
				+/-	11.9573	µg/mL	Unstressed
				+/-	19.0298	µg/mL	Stressed
36	2,4,6-Trichlorophenol CAS # 88-06-2 Purity 99%	(Lot STBH7520)	1,000.9 µg/mL	+/-	5.8191	µg/mL	Gravimetric
				+/-	11.9644	µg/mL	Unstressed
				+/-	19.0412	µg/mL	Stressed
37	2,4,5-Trichlorophenol CAS # 95-95-4 Purity 98%	(Lot FHN01)	1,001.0 µg/mL	+/-	5.8201	µg/mL	Gravimetric
				+/-	11.9665	µg/mL	Unstressed
				+/-	19.0444	µg/mL	Stressed
38	2-Chloronaphthalene CAS # 91-58-7 Purity 99%	(Lot TWYRD)	1,000.7 µg/mL	+/-	5.8180	µg/mL	Gravimetric
				+/-	11.9620	µg/mL	Unstressed
				+/-	19.0374	µg/mL	Stressed
39	Biphenyl CAS # 92-52-4 Purity 99%	(Lot MKCJ6240)	1,000.9 µg/mL	+/-	5.8191	µg/mL	Gravimetric
				+/-	11.9644	µg/mL	Unstressed
				+/-	19.0412	µg/mL	Stressed

56	4-Nitroaniline CAS # 100-01-6 Purity 99%	(Lot BCCCC2312)	1,000.7 µg/mL	+/- 5.8183 +/- 11.9628 +/- 19.0387	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) CAS # 534-52-1 Purity 99%	(Lot RP201203)	2,000.3 µg/mL	+/- 11.6297 +/- 23.9113 +/- 38.0545	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	Diphenylamine CAS # 122-39-4 Purity 99%	(Lot MKBN8295V)	851.5 µg/mL	+/- 4.9505 +/- 10.1785 +/- 16.1989	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	Azobenzene CAS # 103-33-3 Purity 99%	(Lot BCCB8438)	1,000.3 µg/mL	+/- 5.8156 +/- 11.9573 +/- 19.0298	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	4-Bromophenyl phenyl ether CAS # 101-55-3 Purity 99%	(Lot STBB9729V)	1,002.7 µg/mL	+/- 5.8296 +/- 11.9859 +/- 19.0754	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	Hexachlorobenzene CAS # 118-74-1 Purity 99%	(Lot 11004100)	1,001.3 µg/mL	+/- 5.8218 +/- 11.9700 +/- 19.0501	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	Pentachlorophenol CAS # 87-86-5 Purity 99%	(Lot 200820KJ)	2,001.1 µg/mL	+/- 11.6348 +/- 23.9217 +/- 38.0710	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	n-Octadecane (C18) CAS # 593-45-3 Purity 99%	(Lot RI6FI)	1,000.9 µg/mL	+/- 5.8191 +/- 11.9644 +/- 19.0412	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	Phenanthrene CAS # 85-01-8 Purity 99%	(Lot MKCL7390)	1,001.0 µg/mL	+/- 5.8199 +/- 11.9660 +/- 19.0437	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	Anthracene CAS # 120-12-7 Purity 99%	(Lot MKCM0015)	1,000.7 µg/mL	+/- 5.8180 +/- 11.9620 +/- 19.0374	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	Carbazole CAS # 86-74-8 Purity 99%	(Lot 10812100)	1,002.0 µg/mL	+/- 5.8257 +/- 11.9780 +/- 19.0628	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	Di-n-butylphthalate CAS # 84-74-2 Purity 99%	(Lot MKCJ3790)	1,000.7 µg/mL	+/- 5.8180 +/- 11.9620 +/- 19.0374	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	Fluoranthene CAS # 206-44-0 Purity 99%	(Lot MKCF7378)	1,000.5 µg/mL	+/- 5.8168 +/- 11.9596 +/- 19.0336	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	Pyrene CAS # 129-00-0 Purity 99%	(Lot BCCB9880)	1,000.7 µg/mL	+/- 5.8183 +/- 11.9628 +/- 19.0387	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Benzyl butyl phthalate CAS # 85-68-7 Purity 99%	(Lot MKCF0058)	1,000.3 µg/mL	+/- 5.8160 +/- 11.9580 +/- 19.0311	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Benz(a)anthracene CAS # 56-55-3 Purity 99%	(Lot 0012012)	1,002.7 µg/mL	+/- 5.8296 +/- 11.9859 +/- 19.0754	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

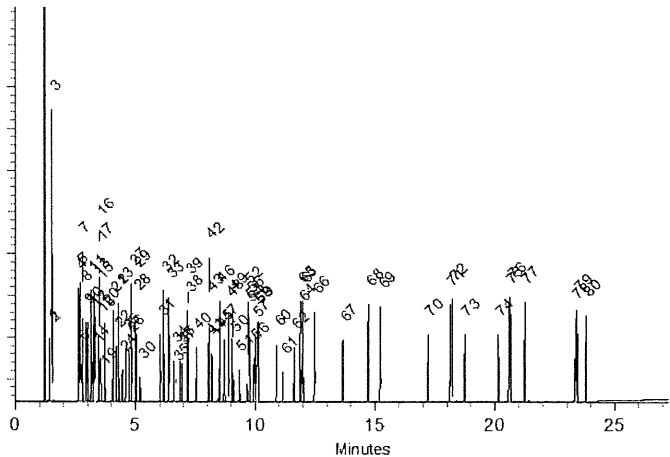
Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

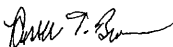
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Russ Bookhamer - Operations Technician I

Date Mixed: 12-Jan-2021 Balance: B442140311


Justine Albertson - Operations Tech-ARM QC

Date Passed: 20-Jan-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

SVLIST1/STD11_00006

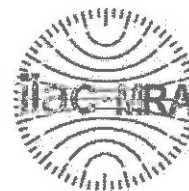


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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01



ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569732 **Lot No.:** A0164387
Description : 8270 List 1 / Std #11
8270 List 1 / Std #11 2,000µg/mL, Methylene chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : March 31, 2022 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)
1	Benzaldehyde CAS # 100-52-7 Purity 99% (Lot SHBG8690V)	2,001.8 µg/mL	+/- 11.6383 µg/mL +/- 39.9656 µg/mL +/- 89.7049 µg/mL Gravimetric Unstressed Stressed
2	epsilon-Caprolactam CAS # 105-60-2 Purity 99% (Lot I16X016)	2,000.6 µg/mL	+/- 11.6316 µg/mL +/- 39.9423 µg/mL +/- 89.6527 µg/mL Gravimetric Unstressed Stressed
3	Atrazine CAS # 1912-24-9 Purity 99% (Lot PI8FG)	2,000.0 µg/mL	+/- 11.6282 µg/mL +/- 39.9306 µg/mL +/- 89.6265 µg/mL Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Reagent

SVLIST1/STD9_00008



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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Catalog No. : 569730 **Lot No.:** A0164053

Description : 8270 List 1 / Std #9

8270 List 1 / Std #9 2000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : February 28, 2022 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.: K=2)				
1	Benzidine		2,003.2 µg/mL	+/-	11.6468	µg/mL	Gravimetric	
	CAS #	92-87-5						(Lot CYGNUSX2)
	Purity	99%						
2	3,3'-Dichlorobenzidine		2,003.6 µg/mL	+/-	11.6491	µg/mL	Gravimetric	
	CAS #	91-94-1						(Lot 200227RSR)
	Purity	99%						
Solvent:	Methylene chloride							
	CAS #	75-09-2						
	Purity	99%						

Reagent

SVLVIntstd_00012



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Certificate of Analysis



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567684 **Lot No.:** A0159166

Description : 8270 Internal Standard
8270 Internal Standard 2,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : March 31, 2025 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)
1	1,4-Dichlorobenzene-d4 CAS # 3855-82-1 (Lot PR-30447) Purity 99%	2,004.0 µg/mL	+/- 11.6511 µg/mL Gravimetric +/- 90.2591 µg/mL Unstressed +/- 100.1536 µg/mL Stressed
2	Naphthalene-d8 CAS # 1146-65-2 (Lot M-1452) Purity 99%	2,004.9 µg/mL	+/- 11.6567 µg/mL Gravimetric +/- 90.3019 µg/mL Unstressed +/- 100.2011 µg/mL Stressed
3	Acenaphthene-d10 CAS # 15067-26-2 (Lot PR-28021) Purity 99%	2,000.4 µg/mL	+/- 11.6302 µg/mL Gravimetric +/- 90.0970 µg/mL Unstressed +/- 99.9737 µg/mL Stressed
4	Phenanthrene-d10 CAS # 1517-22-2 (Lot PR-29119) Purity 99%	2,004.5 µg/mL	+/- 11.6540 µg/mL Gravimetric +/- 90.2816 µg/mL Unstressed +/- 100.1786 µg/mL Stressed
5	Chrysene-d12 CAS # 1719-03-5 (Lot PR-30486) Purity 99%	2,002.1 µg/mL	+/- 11.6401 µg/mL Gravimetric +/- 90.1735 µg/mL Unstressed +/- 100.0587 µg/mL Stressed
6	Perylene-d12 CAS # 1520-96-3 (Lot PR-27342) Purity 99%	2,002.3 µg/mL	+/- 11.6413 µg/mL Gravimetric +/- 90.1825 µg/mL Unstressed +/- 100.0687 µg/mL Stressed

Reagent

SVLVSURSPK_00014



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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567685 **Lot No.:** A0164104

Description : 8270 Surrogate Standard
8270 Surrogate Standard 5,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2025 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.: K=2)			
1	2-Fluorophenol CAS # 367-12-4 Purity 99% (Lot STBF3761V)	5,030.3 µg/mL	+/- 29.2464	µg/mL	Gravimetric	
			+/- 146.8000	µg/mL	Unstressed	
			+/- 178.1362	µg/mL	Stressed	
2	Phenol-d5 CAS # 4165-62-2 Purity 99% (Lot CD-105)	5,023.7 µg/mL	+/- 29.2084	µg/mL	Gravimetric	
			+/- 146.6094	µg/mL	Unstressed	
			+/- 177.9048	µg/mL	Stressed	
3	Nitrobenzene-d5 CAS # 4165-60-0 Purity 99% (Lot PR-29940B)	5,047.2 µg/mL	+/- 29.3449	µg/mL	Gravimetric	
			+/- 147.2942	µg/mL	Unstressed	
			+/- 178.7359	µg/mL	Stressed	
4	2-Fluorobiphenyl CAS # 321-60-8 Purity 99% (Lot 00017945)	5,045.5 µg/mL	+/- 29.3348	µg/mL	Gravimetric	
			+/- 147.2436	µg/mL	Unstressed	
			+/- 178.6745	µg/mL	Stressed	
5	2,4,6-Tribromophenol CAS # 118-79-6 Purity 99% (Lot MKCJ7664)	5,004.7 µg/mL	+/- 29.0980	µg/mL	Gravimetric	
			+/- 146.0549	µg/mL	Unstressed	
			+/- 177.2320	µg/mL	Stressed	
6	p-Terphenyl-d14 CAS # 1718-51-0 Purity 99% (Lot PR-27278)	5,048.9 µg/mL	+/- 29.3545	µg/mL	Gravimetric	
			+/- 147.3429	µg/mL	Unstressed	
			+/- 178.7949	µg/mL	Stressed	

Reagent

SVLVSURSPK_00018



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567685 **Lot No.:** A0172807

Description : 8270 Surrogate Standard

8270 Surrogate Standard 5,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : May 31, 2026 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol CAS # 367-12-4 Purity 99% (Lot STBJ2508)	5,004.6 µg/mL	+/- 29.0972 µg/mL +/- 146.0510 µg/mL +/- 177.2273 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d5 CAS # 4165-62-2 Purity 99% (Lot CD-105)	5,011.4 µg/mL	+/- 29.1367 µg/mL +/- 146.2494 µg/mL +/- 177.4681 µg/mL	Gravimetric Unstressed Stressed
3	Nitrobenzene-d5 CAS # 4165-60-0 Purity 99% (Lot PR-29940B)	5,003.0 µg/mL	+/- 29.0879 µg/mL +/- 146.0043 µg/mL +/- 177.1706 µg/mL	Gravimetric Unstressed Stressed
4	2-Fluorobiphenyl CAS # 321-60-8 Purity 99% (Lot 00019169)	5,010.2 µg/mL	+/- 29.1297 µg/mL +/- 146.2144 µg/mL +/- 177.4256 µg/mL	Gravimetric Unstressed Stressed
5	2,4,6-Tribromophenol CAS # 118-79-6 Purity 99% (Lot MKCJ7664)	5,003.9 µg/mL	+/- 29.0931 µg/mL +/- 146.0306 µg/mL +/- 177.2025 µg/mL	Gravimetric Unstressed Stressed
6	p-Terphenyl-d14 CAS # 1718-51-0 Purity 99% (Lot PR-30504)	5,013.8 µg/mL	+/- 29.1507 µg/mL +/- 146.3195 µg/mL +/- 177.5531 µg/mL	Gravimetric Unstressed Stressed

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Reagent

svmethy1metha_00013



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: 70443
Lot Number: 032717
Description: Methyl methane sulfonate

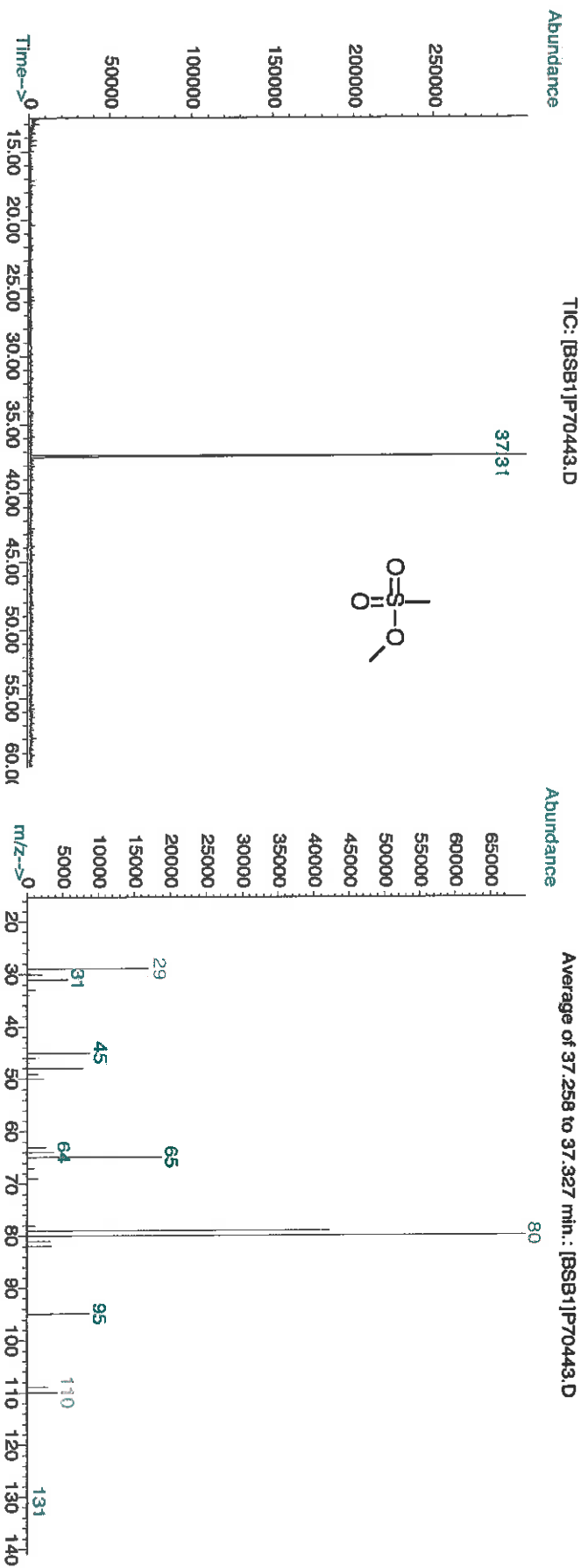
Solvent(s): Lot#
Methylene chloride 76782

Expiration Date: 03/27/22
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 822-275872-11
Weight(s) shown below were combined and diluted to (mL): 25.0
SE-05 Balance Uncertainty
0.001 Mass Uncertainty

Formulated By: <i>Bygonesa</i>	032717
Reviewed By: <i>Pedro L. Rentas</i>	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (±) (µg/mL)	MSDS Information		
										(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)

1. Methyl methane sulfonate 443 07322PW 1000 99 0.2 0.02525 0.02527 1000.8 5.7 66-27-3 N/A or at 22mg/kg
Method GC6MSD-1: Column: Vocoal (60m X 0.25mm ID X 1.5µm film thickness) Temp: 1-35°C (10min.), Temp: 2-200°C (8.75 min.), Rate=4°C/min, Injector Temp=200°C, Detector Temp=220°C. Analysis performed by Pedro Rentas.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (±) 0.5% of the stated value, unless otherwise stated.
- All standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Reagent

svTCLPacids_00013



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31027 **Lot No.:** A0165463

Description : TCLP Acid Mix
TCLP Acids Method 1311 Std 2000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2023 **Storage:** 10°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Methylphenol (o-cresol) CAS # 95-48-7 (Lot SHBH6379) Purity 99%	2,005.6 µg/mL	+/- 11.7700 µg/mL Gravimetric +/- 58.5520 µg/mL Unstressed +/- 71.0421 µg/mL Stressed
2	3-Methylphenol (m-cresol) CAS # 108-39-4 (Lot SHBD0627V) Purity 99%	2,005.6 µg/mL	+/- 11.7700 µg/mL Gravimetric +/- 58.5520 µg/mL Unstressed +/- 71.0421 µg/mL Stressed
3	4-Methylphenol (p-cresol) CAS # 106-44-5 (Lot 49396AP) Purity 99%	2,005.3 µg/mL	+/- 11.7682 µg/mL Gravimetric +/- 58.5432 µg/mL Unstressed +/- 71.0315 µg/mL Stressed
4	2,4,5-Trichlorophenol CAS # 95-95-4 (Lot FHN01) Purity 98%	2,003.4 µg/mL	+/- 11.7572 µg/mL Gravimetric +/- 58.4882 µg/mL Unstressed +/- 70.9646 µg/mL Stressed
5	2,4,6-Trichlorophenol CAS # 88-06-2 (Lot STBH7520) Purity 99%	2,005.4 µg/mL	+/- 11.7688 µg/mL Gravimetric +/- 58.5462 µg/mL Unstressed +/- 71.0350 µg/mL Stressed
6	Pentachlorophenol CAS # 87-86-5 (Lot 200609JLM) Purity 99%	2,004.1 µg/mL	+/- 11.7612 µg/mL Gravimetric +/- 58.5082 µg/mL Unstressed +/- 70.9889 µg/mL Stressed

Reagent

svTCLPbns_00011



CERTIFIED REFERENCE MATERIAL

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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31028 **Lot No.:** A0158475

Description : TCLP B/N Mix

TCLP B/N Mix 2000 µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2023 **Storage:** 10°C or colder

Handling: Sonicate prior to use.

CT#
3631448-3631467
8/31/2022

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)			
1	Pyridine	2,012.0 µg/mL	+/-	11.8075	µg/mL	Gravimetric
	CAS # 110-86-1 (Lot SHBK6453)		+/-	99.5423	µg/mL	Unstressed
	Purity 99%		+/-	102.0168	µg/mL	Stressed
2	1,4-Dichlorobenzene	2,006.0 µg/mL	+/-	11.7723	µg/mL	Gravimetric
	CAS # 106-46-7 (Lot MKBS4401V)		+/-	99.2454	µg/mL	Unstressed
	Purity 99%		+/-	101.7126	µg/mL	Stressed
3	Hexachloroethane	2,011.0 µg/mL	+/-	11.8017	µg/mL	Gravimetric
	CAS # 67-72-1 (Lot ENSIK)		+/-	99.4928	µg/mL	Unstressed
	Purity 99%		+/-	101.9661	µg/mL	Stressed
4	Nitrobenzene	2,005.0 µg/mL	+/-	11.7665	µg/mL	Gravimetric
	CAS # 98-95-3 (Lot MKCK4267)		+/-	99.1959	µg/mL	Unstressed
	Purity 99%		+/-	101.6619	µg/mL	Stressed
5	Hexachlorobutadiene	2,000.2 µg/mL	+/-	11.7382	µg/mL	Gravimetric
	CAS # 87-68-3 (Lot J31X013)		+/-	98.9575	µg/mL	Unstressed
	Purity 98%		+/-	101.4175	µg/mL	Stressed
6	2,4-Dinitrotoluene	2,007.0 µg/mL	+/-	11.7782	µg/mL	Gravimetric
	CAS # 121-14-2 (Lot MKAA0690V)		+/-	99.2949	µg/mL	Unstressed
	Purity 99%		+/-	101.7633	µg/mL	Stressed
7	Hexachlorobenzene	2,008.0 µg/mL	+/-	11.7841	µg/mL	Gravimetric
	CAS # 118-74-1 (Lot LC19614V)		+/-	99.3444	µg/mL	Unstressed
	Purity 99%		+/-	101.8140	µg/mL	Stressed

Reagent

SVTUNINGMIXs_00008



110 Benner Circle
 Bellefonte, PA 16823-8812
 Tel: (800)356-1688
 Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31615 **Lot No.:** A0147424

Description : GC/MS Tuning Mixture

GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2022 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)			
1	Pentachlorophenol	1,000.4 µg/mL	+/-	5.8709	µg/mL	Gravimetric
	CAS # 87-86-5 (Lot 190227CGKJ)		+/-	45.5674	µg/mL	Unstressed
	Purity 99%		+/-	65.7932	µg/mL	Stressed
2	DFTPP (Decafluorotriphenylphosphine)	1,000.0 µg/mL	+/-	5.8686	µg/mL	Gravimetric
	CAS # 5074-71-5 (Lot 10198748)		+/-	45.5492	µg/mL	Unstressed
	Purity 99%		+/-	65.7669	µg/mL	Stressed
3	Benzidine	1,000.0 µg/mL	+/-	5.8686	µg/mL	Gravimetric
	CAS # 92-87-5 (Lot 190115JACG)		+/-	45.5492	µg/mL	Unstressed
	Purity 99%		+/-	65.7669	µg/mL	Stressed
4	4,4'-DDT	1,000.4 µg/mL	+/-	5.8709	µg/mL	Gravimetric
	CAS # 50-29-3 (Lot S37912V)		+/-	45.5674	µg/mL	Unstressed
	Purity 99%		+/-	65.7932	µg/mL	Stressed

Solvent: Methylene chloride
 CAS # 75-09-2
 Purity 99%

Reagent

SVTUNINGMIXs_00009



110 Benner Circle
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Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31615 **Lot No.:** A0178508

Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2024 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Pentachlorophenol CAS # 87-86-5 (Lot 210706RSR) Purity 99%	1,005.2 µg/mL	+/- 5.8991 µg/mL Gravimetric +/- 45.7861 µg/mL Unstressed +/- 66.1089 µg/mL Stressed
2	DFTPP (Decafluorotriphenylphosphine) CAS # 5074-71-5 (Lot Q117-147) Purity 95%	1,003.6 µg/mL	+/- 5.8896 µg/mL Gravimetric +/- 45.7123 µg/mL Unstressed +/- 66.0023 µg/mL Stressed
3	Benzidine CAS # 92-87-5 (Lot 210907JLM) Purity 99%	1,000.0 µg/mL	+/- 5.8686 µg/mL Gravimetric +/- 45.5492 µg/mL Unstressed +/- 65.7669 µg/mL Stressed
4	4,4'-DDT CAS # 50-29-3 (Lot 210916JLM) Purity 99%	1,003.6 µg/mL	+/- 5.8897 µg/mL Gravimetric +/- 45.7132 µg/mL Unstressed +/- 66.0037 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Reagent

TA-ICP-ICSAB1_00002

CERTIFICATE OF ANALYSIS

Multi-Element Aqueous CRM

Product #: TA-ICP-ICSAB-1

ICP ICSAB Mix Solution 1

Lot #: 1115088-1

Matrix: 5% HNO₃/0.5% HF

Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty
Mo	100.2 ± 0.5 mg/L	Si	1000 ± 5 mg/L	Ti	100.3 ± 0.5 mg/L
Sb	100.2 ± 0.5 mg/L	Sn	100.3 ± 0.5 mg/L		

Source Material Lot # Chart

Element	Source Material Lot #	Element	Source Material Lot #	Element	Source Material Lot #
Mo	175215	Si	1004987	Ti	983035
Sb	987317	Sn	1025087		

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO 17034**, and **ISO/IEC 17025**. This CRM was prepared to the certified concentrations shown above by gravimetric methods, using single-element concentrates that were certified using the "High Performance ICP-OES" protocol developed by NIST and are directly traceable to **NIST SRMs (see reverse side)**. The solution was stabilized using high purity nitric acid (HNO₃), hydrofluoric acid (HF) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentrations were determined based upon gravimetric procedures. Secondary verification of the certified concentrations was performed using ICP-OES that was calibrated and/or referenced against **NIST SRMs (see reverse side)**. The uncertainty associated with each certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.



Chuck Goudreau, Certifying Officer

July 22, 2021

Certification Date

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

Health and Safety Information: Refer to the Safety Data Sheet (SDS).

Homogeneity: This solution was determined to be homogeneous by procedures consistent with the requirements of ISO 17034 and ISO Guide 35. Replicate samples of the finished solution were analyzed to confirm its homogeneity, in accordance with internal procedures for the assessment of homogeneity and stability. To ensure homogeneity, users should not take a smaller sub-sample than specified in the Instructions for Use, as doing so will invalidate the certified values and uncertainties.

Quality Manual Rev: No. 7, July 24, 2019

Further Information: Please contact CPI International for further information about this material.

Quality Certifications: This material was prepared under a quality management system that is registered/accredited to the following:

- ISO 17034 Accredited: Reference Materials Producer, A2LA Certificate No. 2848.02 – General Requirements for the Competence of Reference Material Producers
 - ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35
- ISO/IEC 17025 Accredited: Chemical Testing, A2LA Certificate No. 2848.01 – General Requirements for the Competence of Testing and Calibration Laboratories
- ISO 9001 Certified: Quality Management Systems, Certificate Registration No. 56 100 19560101 – Requirements
(Registrar: TUV NORD)

This CRM is traceable to the following NIST SRMs:

Analyte	Aq. SRM	MO SRM	Analyte	Aq. SRM	MO SRM	Analyte	Aq. SRM	MO SRM
Ag	3151	-	Hf	3122	-	S	3154	2770
Al	3101a	-	Hg	3133	3133	Sb	3102a	3102a
As	3103a	3103a	Ho	3123a	-	Sc	3148a	3148a
Au	3121	-	In	3124a	3124a	Se	3149	3149
B	3107	3107	K	3141a	3141a	Si	3150	-
Ba	3104a	-	La	3127a	3127a	Sm	3147a	-
Be	3105a	3105a	Li	3129a	3129a	Sn	3161a	-
Bi	3106	3106	Lu	3130a	-	SO ₄ ²⁻	3181	-
Br	3184	-	Mg	3131a	3131a	Sr	3153a	3153a
Ca	3109a	3109a	Mn	3132	3132	Ta	3155	-
Cd	3108	-	Mo	3134	3134	Tb	3157a	-
Ce	3110	3110	Na	3152a	-	Te	3156	-
Cl ⁻	3182	1818a	Nb	3137	-	Th	-	-
Co	3113	3113	Nd	3135a	-	Ti	3162a	3162a
Cr	3112a	-	Ni	3136	-	Tl	3158	3158
Cs	3111a	-	NO ₃ ⁻	3185	-	Tm	3160a	-
Cu	3114	-	P	3139a	3139a	U	3164	-
Dy	3115a	-	Pb	3128	-	V	3165	-
Er	3116a	-	Pd	3138	-	W	3163	3163
Eu	3117a	-	PO ₄ ³⁻	3186	-	Y	3167a	3167a
F ⁻	3183	-	Pr	3142a	-	Yb	3166a	-
Fe	3126a	-	Pt	3140	3140	Zn	3168a	3168a
Ga	3119a	-	Rb	3145a	-	Zr	3169	3169
Gd	3118a	-	Re	3143	-			
Ge	3120a	-	Rh	3144	3144			

Reagent

TA-ICP-ICSAB2_00002

CERTIFICATE OF ANALYSIS

Multi-Element Aqueous CRM

Product #: TA-ICP-ICSAB-2

ICP ICSAB Mix Solution 2

Lot #: 1133580-1

Matrix: 5% HNO₃

Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty
Ag	99.98 ± 0.50 mg/L	Cr	99.99 ± 0.50 mg/L	Pb	100.1 ± 0.5 mg/L
As	100.0 ± 0.5 mg/L	Cu	99.99 ± 0.50 mg/L	Se	99.97 ± 0.50 mg/L
B	1000 ± 5 mg/L	K	999.8 ± 5.0 mg/L	Sr	100.1 ± 0.5 mg/L
Ba	99.98 ± 0.50 mg/L	Mn	99.99 ± 0.50 mg/L	Tl	100.1 ± 0.5 mg/L
Be	49.95 ± 0.25 mg/L	Na	999.7 ± 5.0 mg/L	V	99.95 ± 0.50 mg/L
Cd	100.0 ± 0.5 mg/L	Ni	99.96 ± 0.50 mg/L	Zn	99.93 ± 0.50 mg/L
Co	100.0 ± 0.5 mg/L	P	1001 ± 5 mg/L		

Source Material Lot # Chart

Element	Source Material Lot #	Element	Source Material Lot #	Element	Source Material Lot #
Ag	983032	Cr	880115	Pb	1035677
As	981756	Cu	982824	Se	929078
B	999861R	K	1073557	Sr	1065634
Ba	150283R	Mn	985851	Tl	1059794
Be	989234	Na	1122654	V	1035777
Cd	983033	Ni	752769	Zn	1025267
Co	979870	P	1107349		

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO 17034**, and **ISO/IEC 17025**. This CRM was prepared to the certified concentrations shown above by gravimetric methods, using single-element concentrates that were certified using the "High Performance ICP-OES" protocol developed by NIST and are directly traceable to **NIST SRMs (see reverse side)**. The solution was stabilized using high purity nitric acid (HNO₃) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentrations were determined based upon gravimetric procedures. Secondary verification of the certified concentrations was performed using ICP-OES that was calibrated and/or referenced against **NIST SRMs (see reverse side)**. The uncertainty associated with each certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 μL , and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.



Chuck Goudreau, Certifying Officer

July 22, 2021

Certification Date

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

Health and Safety Information: Refer to the Safety Data Sheet (SDS).

Homogeneity: This solution was determined to be homogeneous by procedures consistent with the requirements of ISO 17034 and ISO Guide 35. Replicate samples of the finished solution were analyzed to confirm its homogeneity, in accordance with internal procedures for the assessment of homogeneity and stability. To ensure homogeneity, users should not take a smaller sub-sample than specified in the Instructions for Use, as doing so will invalidate the certified values and uncertainties.

Quality Manual Rev: No. 8, February 10, 2021

Further Information: Please contact CPI International for further information about this material.

Quality Certifications: This material was prepared under a quality management system that is registered/accredited to the following:

- ISO 17034 Accredited: Reference Materials Producer, A2LA Certificate No. 2848.02 – General Requirements for the Competence of Reference Material Producers
 - ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35
- ISO/IEC 17025 Accredited: Chemical Testing, A2LA Certificate No. 2848.01 – General Requirements for the Competence of Testing and Calibration Laboratories
- ISO 9001 Certified: Quality Management Systems, Certificate Registration No. 56 100 19560101 – Requirements
(Registrar: TUV NORD)

This CRM is traceable to the following NIST SRMs:

Analyte	Aq. SRM	MO SRM	Analyte	Aq. SRM	MO SRM	Analyte	Aq. SRM	MO SRM
Ag	3151	-	Hf	3122	-	S	3154	2770
Al	3101a	-	Hg	3133	3133	Sb	3102a	3102a
As	3103a	3103a	Ho	3123a	-	Sc	3148a	3148a
Au	3121	-	In	3124a	3124a	Se	3149	3149
B	3107	3107	K	3141a	3141a	Si	3150	-
Ba	3104a	-	La	3127a	3127a	Sm	3147a	-
Be	3105a	3105a	Li	3129a	3129a	Sn	3161a	-
Bi	3106	3106	Lu	3130a	-	SO ₄ ²⁻	3181	-
Br	3184	-	Mg	3131a	3131a	Sr	3153a	3153a
Ca	3109a	3109a	Mn	3132	3132	Ta	3155	-
Cd	3108	-	Mo	3134	3134	Tb	3157a	-
Ce	3110	3110	Na	3152a	-	Te	3156	-
Cl	3182	1818a	Nb	3137	-	Th	-	-
Co	3113	3113	Nd	3135a	-	Ti	3162a	3162a
Cr	3112a	-	Ni	3136	-	Tl	3158	3158
Cs	3111a	-	NO ₃	3185	-	Tm	3160a	-
Cu	3114	-	P	3139a	3139a	U	3164	-
Dy	3115a	-	Pb	3128	-	V	3165	-
Er	3116a	-	Pd	3138	-	W	3163	3163
Eu	3117a	-	PO ₄ ³⁻	3186	-	Y	3167a	3167a
F	3183	-	Pr	3142a	-	Yb	3166a	-
Fe	3126a	-	Pt	3140	3140	Zn	3168a	3168a
Ga	3119a	-	Rb	3145a	-	Zr	3169	3169
Gd	3118a	-	Re	3143	-			
Ge	3120a	-	Rh	3144	3144			

Reagent

TA-SPIKE1_00017



4444950
ID: TA-SPIKE1_00017
Exp: 03/09/23 Pp'd: TLP
CPI Spiking Solution #1



4444949
ID: TA-SPIKE1_00017
Exp: 03/09/23 Pp'd: TLP
CPI Spiking Solution #1



4444948
ID: TA-SPIKE1_00017
Exp: 03/09/23 Pp'd: TLP
CPI Spiking Solution #1

CERTIFICATE OF ANALYSIS

Received 9/14/21

Handwritten signature

Multi-Element Aqueous CRM

Product #: TA-SPIKE1+

Spike Mix # 1

Lot #: 1146438-1

Matrix: 5% HNO₃/tr. HF

Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty
As	200.0 ± 1.0 mg/L	Li	100.0 ± 0.5 mg/L	Sn	200.0 ± 1.0 mg/L
Ba	200.0 ± 1.0 mg/L	Mn	99.98 ± 0.50 mg/L	Sr	100.0 ± 0.5 mg/L
Be	100.0 ± 0.5 mg/L	Mo	100.0 ± 0.5 mg/L	Ti	99.98 ± 0.50 mg/L
Cd	100.0 ± 0.5 mg/L	Ni	100.0 ± 0.5 mg/L	Tl	200.0 ± 1.0 mg/L
Co	100.0 ± 0.5 mg/L	Pb	99.96 ± 0.50 mg/L	V	100.0 ± 0.5 mg/L
Cr	100.0 ± 0.5 mg/L	Se	200.0 ± 1.0 mg/L		
Cu	99.99 ± 0.50 mg/L	Si	200.0 ± 1.0 mg/L		

Source Material Lot # Chart

Element	Source Material Lot #	Element	Source Material Lot #	Element	Source Material Lot #
As	981756	Li	1062674	Sn	1025087
Ba	1052674	Mn	985851	Sr	1065634
Be	989234	Mo	984974	Ti	1010581
Cd	983033	Ni	752769	Tl	1059794
Co	1084160	Pb	1035677	V	1035777
Cr	880115	Se	929078		
Cu	1063159	Si	1004987		

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to, **ISO 17034, ISO/IEC 17025 and ISO 9001**. This CRM was prepared to the certified concentrations shown above by gravimetric methods, using single-element concentrates that were certified using the "High Performance ICP-OES" protocol developed by NIST and are directly traceable to **NIST SRMs (see last page)**. The solution was stabilized using high purity nitric acid (HNO₃), trace hydrofluoric acid (HF) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentrations were determined based upon gravimetric procedures. Secondary verification of the certified concentrations was performed using ICP-OES that was calibrated and/or referenced against **NIST SRMs (see reverse side)**. The uncertainty associated with each certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

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Page 1 of 3

Europe
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1013BG Amsterdam F: +31 20 420 28 36
The Netherlands

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 μL , and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.



Chuck Goudreau, Certifying Officer

September 9, 2021
Certification Date

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

Health and Safety Information: Refer to the Safety Data Sheet (SDS).

Homogeneity: This solution was determined to be homogeneous by procedures consistent with the requirements of ISO 17034 and ISO Guide 35. Replicate samples of the finished solution were analyzed to confirm its homogeneity, in accordance with internal procedures for the assessment of homogeneity and stability. To ensure homogeneity, users should not take a smaller sub-sample than specified in the Instructions for Use, as doing so will invalidate the certified values and uncertainties.

Further Information: Please contact CPI International for further information about this material.

Quality Certifications: This material was prepared under a quality management system that is registered/accredited to the following:

- ISO 17034 Accredited: Reference Materials Producer, A2LA Certificate No. 2848.02 – General Requirements for the Competence of Reference Material Producers
 - ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35
- ISO/IEC 17025 Accredited: Chemical Testing, A2LA Certificate No. 2848.01 – General Requirements for the Competence of Testing and Calibration Laboratories
- ISO 9001 Certified: Quality Management Systems, Certificate Registration No. 56 100 19560101 – Requirements
(Registrar: TUV NORD)

This CRM is traceable to the following NIST SRMs:

Analyte	Aq. SRM	MO SRM	Analyte	Aq. SRM	MO SRM	Analyte	Aq. SRM	MO SRM
Ag	3151	-	Hf	3122	-	S	3154	2770
Al	3101a	-	Hg	3133	3133	Sb	3102a	3102a
As	3103a	3103a	Ho	3123a	-	Sc	3148a	3148a
Au	3121	-	In	3124a	3124a	Se	3149	3149
B	3107	3107	K	3141a	3141a	Si	3150	-
Ba	3104a	-	La	3127a	3127a	Sm	3147a	-
Be	3105a	3105a	Li	3129a	3129a	Sn	3161a	-
Bi	3106	3106	Lu	3130a	-	SO ₄ ²⁻	3181	-
Br	3184	-	Mg	3131a	3131a	Sr	3153a	3153a
Ca	3109a	3109a	Mn	3132	3132	Ta	3155	-
Cd	3108	-	Mo	3134	3134	Tb	3157a	-
Ce	3110	3110	Na	3152a	-	Te	3156	-
Cl	3182	3182a	Nb	3137	-	Th	-	-
Co	3113	3113	Nd	3135a	-	Ti	3162a	3162a
Cr	3112a	-	Ni	3136	-	Tl	3158	3158
Cs	3111a	-	NO ₃	3185	-	Tm	3160a	-
Cu	3114	-	P	3139a	3139a	U	3164	-
Dy	3115a	-	Pb	3128	-	V	3165	-
Er	3116a	-	Pd	3138	-	W	3163	3163
Eu	3117a	-	PO ₄ ³⁻	3186	-	Y	3167a	3167a
F	3183	-	Pr	3142a	-	Yb	3166a	-
Fe	3126a	-	Pt	3140	3140	Zn	3168a	3168a
Ga	3119a	-	Rb	3145a	-	Zr	3169	3169
Gd	3118a	-	Re	3143	-			
Ge	3120a	-	Rh	3144	3144			

Reagent

TA-SPIKE2_00014



4445101
ID: TA-SPIKE2_00014
Exp: 03/09/23 Ppd: TLP
CPI Spiking Solution #2

4445100
ID: TA-SPIKE2_00014
Exp: 03/09/23 Ppd: TLP
CPI Spiking Solution #2

4445099
ID: TA-SPIKE2_00014
Exp: 03/09/23 Ppd: TLP
CPI Spiking Solution #2

CERTIFICATE OF ANALYSIS

Received 9/14/21

Multi-Element Aqueous CRM

Product #: TA-SPIKE2

Spike Mix # 2

Lot #: 1136606-1

Matrix: 5% HNO₃

Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty
Al	1000 ± 5 mg/L	Fe	1000 ± 5 mg/L	Mg	5000 ± 25 mg/L
Ca	5000 ± 25 mg/L	K	5000 ± 25 mg/L	Na	5000 ± 25 mg/L

Source Material Lot # Chart

Element	Source Material Lot #	Element	Source Material Lot #	Element	Source Material Lot #
Al	1077624	Fe	1114543	Mg	1075231
Ca	1121798	K	1073557	Na	1122654

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to, ISO 17034, ISO/IEC 17025 and ISO 9001. This CRM was prepared to the certified concentrations shown above by gravimetric methods, using single-element concentrates that were certified using the "High Performance ICP-OES" protocol developed by NIST and are directly traceable to NIST SRMs (see reverse side). The solution was stabilized using high purity nitric acid (HNO₃) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentrations were determined based upon gravimetric procedures. Secondary verification of the certified concentrations was performed using ICP-OES that was calibrated and/or referenced against NIST SRMs (see reverse side). The uncertainty associated with each certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

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Chuck Goudreau, Certifying Officer

September 9, 2021
Certification Date

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

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Page 1 of 2

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The Netherlands

Health and Safety Information: Refer to the Safety Data Sheet (SDS).

Homogeneity: This solution was determined to be homogeneous by procedures consistent with the requirements of ISO 17034 and ISO Guide 35. Replicate samples of the finished solution were analyzed to confirm its homogeneity, in accordance with internal procedures for the assessment of homogeneity and stability. To ensure homogeneity, users should not take a smaller sub-sample than specified in the Instructions for Use, as doing so will invalidate the certified values and uncertainties.

Further Information: Please contact CPI International for further information about this material.

Quality Certifications: This material was prepared under a quality management system that is registered/accredited to the following:

- ISO 17034 Accredited: Reference Materials Producer, A2LA Certificate No. 2848.02 – General Requirements for the Competence of Reference Material Producers
 - ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35
- ISO/IEC 17025 Accredited: Chemical Testing, A2LA Certificate No. 2848.01 – General Requirements for the Competence of Testing and Calibration Laboratories
- ISO 9001 Certified: Quality Management Systems, Certificate Registration No. 56 100 19560101 – Requirements (Registrar: TUV NORD)

This CRM is traceable to the following NIST SRMs:

Analyte	Aq. SRM	MO SRM	Analyte	Aq. SRM	MO SRM	Analyte	Aq. SRM	MO SRM
Ag	3151	-	Hf	3122	-	S	3154	2770
Al	3101a	-	Hg	3133	3133	Sb	3102a	3102a
As	3103a	3103a	Ho	3123a	-	Sc	3148a	3148a
Au	3121	-	In	3124a	3124a	Se	3149	3149
B	3107	3107	K	3141a	3141a	Si	3150	-
Ba	3104a	-	La	3127a	3127a	Sm	3147a	-
Be	3105a	3105a	Li	3129a	3129a	Sn	3161a	-
Bi	3106	3106	Lu	3130a	-	SO ₄ ²⁻	3181	-
Br	3184	-	Mg	3131a	3131a	Sr	3153a	3153a
Ca	3109a	3109a	Mn	3132	3132	Ta	3155	-
Cd	3108	-	Mo	3134	3134	Tb	3157a	-
Ce	3110	3110	Na	3152a	-	Te	3156	-
Cl	3182	1818a	Nb	3137	-	Th	-	-
Co	3113	3113	Nd	3135a	-	Ti	3162a	3162a
Cr	3112a	-	Ni	3136	-	Tl	3158	3158
Cs	3111a	-	NO ₃	3185	-	Tm	3160a	-
Cu	3114	-	P	3139a	3139a	U	3164	-
Dy	3115a	-	Pb	3128	-	V	3165	-
Er	3116a	-	Pd	3138	-	W	3163	3163
Eu	3117a	-	PO ₄ ³⁻	3186	-	Y	3167a	3167a
F	3183	-	Pr	3142a	-	Yb	3166a	-
Fe	3126a	-	Pt	3140	3140	Zn	3168a	3168a
Ga	3119a	-	Rb	3145a	-	Zr	3169	3169
Gd	3118a	-	Re	3143	-			
Ge	3120a	-	Rh	3144	3144			

Reagent

TA-Spike3 INT_00011



4528660
ID: TA-Spike3 INT_00011
Exp: 06/29/23 Prpd: KEM
TA-Spike3 (PittMix)

4528661
ID: TA-Spike3 INT_00011
Exp: 06/29/23 Prpd: KEM
TA-Spike3 (PittMix)

4528662
ID: TA-Spike3 INT_00011
Exp: 06/29/23 Prpd: KEM
TA-Spike3 (PittMix)

4528663
ID: TA-Spike3 INT_00011
Exp: 06/29/23 Prpd: KEM
TA-Spike3 (PittMix)

KEM Received 11/04/21

CERTIFICATE OF ANALYSIS

4528664
ID: TA-Spike3 INT_00011
Exp: 06/29/23 Prpd: KEM
TA-Spike3 (PittMix)

4528665
ID: TA-Spike3 INT_00011
Exp: 06/29/23 Prpd: KEM
TA-Spike3 (PittMix)

Multi-Element Aqueous CRM

Product #: TA-CM-MAY19-PIT1

TA-Spike3INT

Lot #: 10100317-8

Matrix: 5% HNO₃/tr. HF

Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty
Ag	50.00 ± 0.50 µg/mL	Sb	49.99 ± 0.50 µg/mL
B	250.0 ± 1.3 µg/mL	Zn	50.01 ± 0.50 µg/mL

Source Material Lot # Chart

Element	Source Material Lot #	Element	Source Material Lot #
Ag	983032	Sb	978317
B	1121434	Zn	1025088

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 17034**, **ISO/IEC 17025** and **ISO 9001**. This CRM was prepared to the certified concentrations shown above by gravimetric methods, using single-element concentrates that were certified using the "High Performance ICP-OES" protocol developed by NIST and are directly traceable to **NIST SRMs (see final page)**. The solution was diluted with filtered (0.22 µm), 18 M-ohm deionized water and stabilized the appropriate high-purity acid(s) as indicated in the listed matrix. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. Secondary verification of the certified concentrations was performed using ICP-OES that was calibrated and/or referenced against **NIST SRMs (see final page)**. The uncertainty associated with each certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

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Chuck Goudreau, Certifying Officer

October 29, 2021
Certification Date

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

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Rev. 2

Page 1 of 2

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The Netherlands

Health and Safety Information: Refer to the Safety Data Sheet (SDS).

Homogeneity: This solution was determined to be homogeneous by procedures consistent with the requirements of ISO 17034 and ISO Guide 35. Replicate samples of the finished solution were analyzed to confirm its homogeneity, in accordance with internal procedures for the assessment of homogeneity and stability. To ensure homogeneity, users should not take a smaller sub-sample than specified in the Instructions for Use, as doing so will invalidate the certified values and uncertainties.

Further Information: Please contact CPI International for further information about this material.

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 - ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35
- ISO/IEC 17025 Accredited: Chemical Testing, A2LA Certificate No. 2848.01 – General Requirements for the Competence of Testing and Calibration Laboratories
- ISO 9001 Certified: Quality Management Systems, Certificate Registration No. 56 100 19560101 – Requirements
(Registrar: TUV NORD)

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As	3103a	3103a	Ho	3123a	-	Sc	3148a	3148a
Au	3121	-	In	3124a	3124a	Se	3149	3149
B	3107	3107	K	3141a	3141a	Si	3150	-
Ba	3104a	-	La	3127a	3127a	Sm	3147a	-
Be	3105a	3105a	Li	3129a	3129a	Sn	3161a	-
Bi	3106	3106	Lu	3130a	-	SO ₄ ²⁻	3181	-
Br	3184	-	Mg	3131a	3131a	Sr	3153a	3153a
Ca	3109a	3109a	Mn	3132	3132	Ta	3155	-
Cd	3108	-	Mo	3134	3134	Tb	3157a	-
Ce	3110	3110	Na	3152a	-	Te	3156	-
Cl ⁻	3182	1818a	Nb	3137	-	Th	-	-
Co	3113	3113	Nd	3135a	-	Ti	3162a	3162a
Cr	3112a	-	Ni	3136	-	Tl	3158	3158
Cs	3111a	-	NO ₃	3185	-	Tm	3160a	-
Cu	3114	-	P	3139a	3139a	U	3164	-
Dy	3115a	-	Pb	3128	-	V	3165	-
Er	3116a	-	Pd	3138	-	W	3163	3163
Eu	3117a	-	PO ₄ ³⁻	3186	-	Y	3167a	3167a
F ⁻	3183	-	Pr	3142a	-	Yb	3166a	-
Fe	3126a	-	Pt	3140	3140	Zn	3168a	3168a
Ga	3119a	-	Rb	3145a	-	Zr	3169	3169
Gd	3118a	-	Re	3143	-			
Ge	3120a	-	Rh	3144	3144			

Reagent

TECHCHLORDANE_00004



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571052-FL Lot No.: A0137638
Description : Chlordane Standard
Chlordane Standard 5,000µg/mL, Isooctane, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : May 31, 2022 Storage: 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.: K=2)			
1	Chlordane	5,040.0 µg/mL	+/-	29.5775	µg/mL	Gravimetric
	CAS # 57-74-9 (Lot 142990)		+/-	159.7376	µg/mL	Unstressed
	Purity ----%		+/-	208.6704	µg/mL	Stressed

Solvent: Isooctane
CAS # 540-84-1
Purity 99%

Specific Reference Material Notes:

This material may be reported as technical chlordane, with CAS number 12789-03-6

Tech Tips:

CAS #57-74-9 nomenclature is based on EPA method 8081B.

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

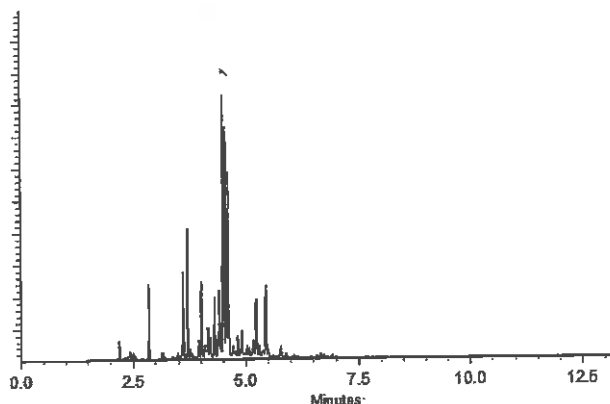
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Joseph Jaglowski - Mix Technician

Date Mixed: 01-May-2018

Balance: B345965662


Justin Albertson - Operations Tech-AUTM CC

Date Passed: 02-May-2018

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

VOA8260GAS1ST_00361



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569722 Lot No.: A0171131

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : April 30, 2024 Storage: 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) CAS # 75-71-8 (Lot 00012554) Purity 99%	2,500.4 µg/mL	+/- 17.4665 µg/mL +/- 140.5300 µg/mL +/- 143.8028 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) CAS # 74-87-3 (Lot SHBK6571) Purity 99%	2,500.3 µg/mL	+/- 17.4265 µg/mL +/- 140.5200 µg/mL +/- 143.7928 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride CAS # 75-01-4 (Lot 00015559) Purity 99%	2,501.4 µg/mL	+/- 16.6715 µg/mL +/- 140.4849 µg/mL +/- 143.7611 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene CAS # 106-99-0 (Lot 00019375) Purity 99%	2,499.9 µg/mL	+/- 17.9031 µg/mL +/- 140.5578 µg/mL +/- 143.8287 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) CAS # 74-83-9 (Lot 101604) Purity 99%	2,500.8 µg/mL	+/- 16.8347 µg/mL +/- 140.4711 µg/mL +/- 143.7461 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) CAS # 75-00-3 (Lot 107-401039114-1) Purity 99%	2,501.1 µg/mL	+/- 17.4608 µg/mL +/- 140.5674 µg/mL +/- 143.8412 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) CAS # 75-43-4 (Lot 10172500) Purity 99%	2,500.0 µg/mL	+/- 14.5352 µg/mL +/- 140.1725 µg/mL +/- 143.4524 µg/mL	Gravimetric Unstressed Stressed

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

VOA8260GAS1ST_00369



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569722 Lot No.: A0171131

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : April 30, 2024 Storage: 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Dichlorodifluoromethane (CFC-12) CAS # 75-71-8 (Lot 00012554) Purity 99%	2,500.4 µg/mL	+/- 17.4665	µg/mL	Gravimetric	
			+/- 140.5300	µg/mL	Unstressed	
			+/- 143.8028	µg/mL	Stressed	
2	Chloromethane (methyl chloride) CAS # 74-87-3 (Lot SHBK6571) Purity 99%	2,500.3 µg/mL	+/- 17.4265	µg/mL	Gravimetric	
			+/- 140.5200	µg/mL	Unstressed	
			+/- 143.7928	µg/mL	Stressed	
3	Vinyl chloride CAS # 75-01-4 (Lot 00015559) Purity 99%	2,501.4 µg/mL	+/- 16.6715	µg/mL	Gravimetric	
			+/- 140.4849	µg/mL	Unstressed	
			+/- 143.7611	µg/mL	Stressed	
4	1,3-Butadiene CAS # 106-99-0 (Lot 00019375) Purity 99%	2,499.9 µg/mL	+/- 17.9031	µg/mL	Gravimetric	
			+/- 140.5578	µg/mL	Unstressed	
			+/- 143.8287	µg/mL	Stressed	
5	Bromomethane (methyl bromide) CAS # 74-83-9 (Lot 101604) Purity 99%	2,500.8 µg/mL	+/- 16.8347	µg/mL	Gravimetric	
			+/- 140.4711	µg/mL	Unstressed	
			+/- 143.7461	µg/mL	Stressed	
6	Chloroethane (ethyl chloride) CAS # 75-00-3 (Lot 107-401039114-1) Purity 99%	2,501.1 µg/mL	+/- 17.4608	µg/mL	Gravimetric	
			+/- 140.5674	µg/mL	Unstressed	
			+/- 143.8412	µg/mL	Stressed	
7	Dichlorofluoromethane (CFC-21) CAS # 75-43-4 (Lot 10172500) Purity 99%	2,500.0 µg/mL	+/- 14.5352	µg/mL	Gravimetric	
			+/- 140.1725	µg/mL	Unstressed	
			+/- 143.4524	µg/mL	Stressed	

8	Trichlorofluoromethane (CFC-11)	2,501.2 µg/mL	+/- 16.2200	µg/mL	Gravimetric
	CAS # 75-69-4 (Lot MKCJ8658)		+/- 140.4243	µg/mL	Unstressed
	Purity 99%		+/- 143.7015	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

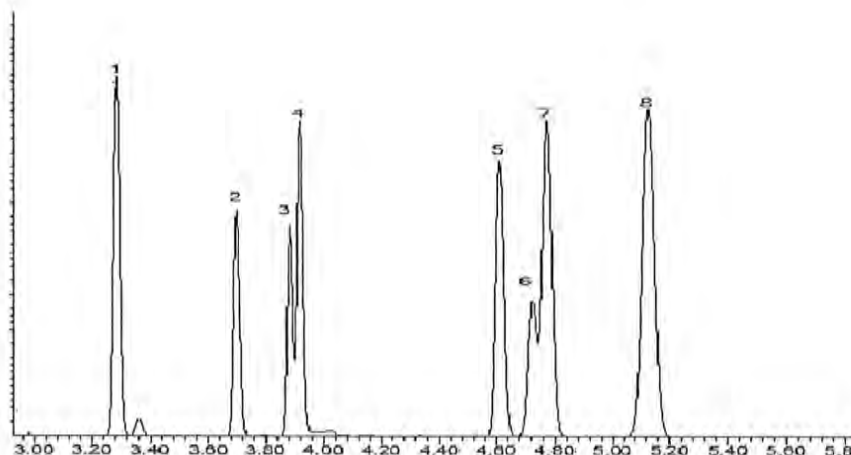
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

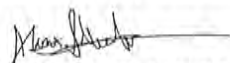


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 08-Apr-2021

Balance: B707717271


Alexis Shelow - Operations Tech I

Date Passed: 13-Apr-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

VOA8260INTRES_00191



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568718 Lot No.: A0168626

Description : 8260 Internal Standard 2014

8260 Internal Standard 2014 250-5,000µg/mL, P&T Methanol/Water (90:10), 5mL/ampul

Container Size : 5 mL Pkg Amt: > 5 mL

Expiration Date : January 31, 2026 Storage: 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	tert-Butyl-d9-alcohol CAS # 25725-11-5 Purity 99% (Lot CD-107)	5,000.5 µg/mL	+/- 29.0733 µg/mL +/- 107.0613 µg/mL +/- 110.1738 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone-d5 CAS # 24313-50-6 Purity 99% (Lot M-276)	1,256.6 µg/mL	+/- 7.3060 µg/mL +/- 26.9040 µg/mL +/- 27.6861 µg/mL	Gravimetric Unstressed Stressed
3	Fluorobenzene CAS # 462-06-6 Purity 99% (Lot BCBK8171V)	251.0 µg/mL	+/- 1.4627 µg/mL +/- 5.3749 µg/mL +/- 5.5311 µg/mL	Gravimetric Unstressed Stressed
4	1,4-Dioxane-d8 CAS # 17647-74-4 Purity 99% (Lot I19942-0122JM)	5,003.4 µg/mL	+/- 29.0902 µg/mL +/- 107.1234 µg/mL +/- 110.2377 µg/mL	Gravimetric Unstressed Stressed
5	Chlorobenzene-d5 CAS # 3114-55-4 Purity 99% (Lot PR-29571)	250.6 µg/mL	+/- 1.4604 µg/mL +/- 5.3663 µg/mL +/- 5.5222 µg/mL	Gravimetric Unstressed Stressed
6	1,4-Dichlorobenzene-d4 CAS # 3855-82-1 Purity 99% (Lot PR-30447)	250.9 µg/mL	+/- 1.4621 µg/mL +/- 5.3727 µg/mL +/- 5.5289 µg/mL	Gravimetric Unstressed Stressed

Reagent

VOA8260INTRES_00193



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568718 **Lot No.:** A0172729

Description : 8260 Internal Standard 2014

8260 Internal Standard 2014 250-5,000µg/mL, P&T Methanol/Water (90:10), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : May 31, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	tert-Butyl-d9-alcohol CAS # 25725-11-5 Purity 99% (Lot CD-107)	5,000.7 µg/mL	+/- 29.0730 µg/mL +/- 107.0652 µg/mL +/- 110.1778 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone-d5 CAS # 24313-50-6 Purity 99% (Lot M-276)	1,250.3 µg/mL	+/- 7.2695 µg/mL +/- 26.7698 µg/mL +/- 27.5480 µg/mL	Gravimetric Unstressed Stressed
3	Fluorobenzene CAS # 462-06-6 Purity 99% (Lot BCBZ5549)	250.6 µg/mL	+/- 1.4604 µg/mL +/- 5.3663 µg/mL +/- 5.5222 µg/mL	Gravimetric Unstressed Stressed
4	1,4-Dioxane-d8 CAS # 17647-74-4 Purity 99% (Lot RP210421V)	5,000.9 µg/mL	+/- 29.0740 µg/mL +/- 107.0687 µg/mL +/- 110.1814 µg/mL	Gravimetric Unstressed Stressed
5	Chlorobenzene-d5 CAS # 3114-55-4 Purity 99% (Lot PR-29571)	250.8 µg/mL	+/- 1.4615 µg/mL +/- 5.3706 µg/mL +/- 5.5267 µg/mL	Gravimetric Unstressed Stressed
6	1,4-Dichlorobenzene-d4 CAS # 3855-82-1 Purity 99% (Lot PR-30447)	250.4 µg/mL	+/- 1.4590 µg/mL +/- 5.3613 µg/mL +/- 5.5171 µg/mL	Gravimetric Unstressed Stressed

Reagent

VOA8260KET1ST_00164



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721 **Lot No.:** A0168313

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone CAS # 67-64-1 (Lot SHBM6699) Purity 99%	12,516.4 µg/mL	+/- 73.2863 µg/mL +/- 755.2197 µg/mL +/- 757.0124 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) CAS # 78-93-3 (Lot SHBL6194) Purity 99%	12,515.2 µg/mL	+/- 73.2792 µg/mL +/- 755.1473 µg/mL +/- 756.9399 µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) CAS # 108-10-1 (Lot SHBM2797) Purity 99%	12,512.0 µg/mL	+/- 73.2605 µg/mL +/- 754.9542 µg/mL +/- 756.7463 µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone CAS # 591-78-6 (Lot MKCL1599) Purity 99%	12,504.4 µg/mL	+/- 73.2160 µg/mL +/- 754.4956 µg/mL +/- 756.2867 µg/mL	Gravimetric Unstressed Stressed
Solvent:	P&T Methanol/Water (90:10) CAS # 67-56-1/7732-18-5 Purity 99%			

Reagent

VOA8260KET1ST_00165



CERTIFIED REFERENCE MATERIAL

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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721 **Lot No.:** A0174287

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Acetone CAS # 67-64-1 (Lot SHBN3661) Purity 99%	12,526.4 µg/mL	+/- 73.3448 µg/mL Gravimetric +/- 755.8230 µg/mL Unstressed +/- 757.6173 µg/mL Stressed
2	2-Butanone (MEK) CAS # 78-93-3 (Lot SHBL5543) Purity 99%	12,543.6 µg/mL	+/- 73.4455 µg/mL Gravimetric +/- 756.8609 µg/mL Unstressed +/- 758.6575 µg/mL Stressed
3	4-Methyl-2-pentanone (MIBK) CAS # 108-10-1 (Lot SHBM7956) Purity 99%	12,534.8 µg/mL	+/- 73.3940 µg/mL Gravimetric +/- 756.3299 µg/mL Unstressed +/- 758.1253 µg/mL Stressed
4	2-Hexanone CAS # 591-78-6 (Lot MKCL1599) Purity 99%	12,617.6 µg/mL	+/- 73.8788 µg/mL Gravimetric +/- 761.3259 µg/mL Unstressed +/- 763.1332 µg/mL Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

VOA8260MEGA1_00116



CERTIFIED REFERENCE MATERIAL

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Certificate of Analysis



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571992 Lot No.: A0159680

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : October 31, 2022 Storage: 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) CAS # 60-29-7 (Lot SHBK7710) Purity 99%	2,518.8 µg/mL	+/- 14.6442 µg/mL +/- 151.9673 µg/mL +/- 152.3281 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) CAS # 76-13-1 (Lot 00016133) Purity 99%	2,523.8 µg/mL	+/- 14.6733 µg/mL +/- 152.2690 µg/mL +/- 152.6305 µg/mL	Gravimetric Unstressed Stressed
3	1,1-dichloroethene CAS # 75-35-4 (Lot SHBK2437) Purity 99%	2,517.5 µg/mL	+/- 14.6370 µg/mL +/- 151.8919 µg/mL +/- 152.2525 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) CAS # 75-65-0 (Lot SHBL0592) Purity 99%	25,122.1 µg/mL	+/- 146.0546 µg/mL +/- 1,515.7284 µg/mL +/- 1,519.3270 µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate CAS # 79-20-9 (Lot SHBK5436) Purity 99%	5,041.4 µg/mL	+/- 29.3110 µg/mL +/- 304.1685 µg/mL +/- 304.8906 µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) CAS # 74-88-4 (Lot D4406-0122JM) Purity 99%	2,520.5 µg/mL	+/- 14.6544 µg/mL +/- 152.0729 µg/mL +/- 152.4340 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) CAS # 107-05-1 (Lot 191118KJ) Purity 99%	2,521.0 µg/mL	+/- 14.6573 µg/mL +/- 152.1031 µg/mL +/- 152.4642 µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane) CAS # 75-09-2 Purity 99%	(Lot SHBL3107)	2,518.6 µg/mL	+/- +/- +/-	14.6435 151.9598 152.3206	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Carbon disulfide CAS # 75-15-0 Purity 99%	(Lot U22D706)	2,521.9 µg/mL	+/- +/- +/-	14.6624 152.1559 152.5171	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	Acrylonitrile CAS # 107-13-1 Purity 99%	(Lot A0387097)	25,178.5 µg/mL	+/- +/- +/-	146.3823 1,519.1297 1,522.7364	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Methyl-tert-butyl ether (MTBE) CAS # 1634-04-4 Purity 99%	(Lot SHBL0822)	2,513.9 µg/mL	+/- +/- +/-	14.6159 151.6732 152.0333	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	cis-1,2-Dichloroethene CAS # 156-59-2 Purity 99%	(Lot MKCK1803)	2,517.3 µg/mL	+/- +/- +/-	14.6355 151.8768 152.2374	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Hexane (C6) CAS # 110-54-3 Purity 99%	(Lot SHBL0924)	2,521.1 µg/mL	+/- +/- +/-	14.6580 152.1106 152.4718	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	1,1-Dichloroethane CAS # 75-34-3 Purity 99%	(Lot 580900)	2,524.5 µg/mL	+/- +/- +/-	14.6777 152.3143 152.6759	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	2,2-Dichloropropane CAS # 594-20-7 Purity 98%	(Lot BCBX0066)	2,523.0 µg/mL	+/- +/- +/-	14.6690 152.2244 152.5858	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	trans-1,2-Dichloroethene CAS # 156-60-5 Purity 99%	(Lot MKBH9850V)	2,523.8 µg/mL	+/- +/- +/-	14.6733 152.2690 152.6305	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Isobutanol (2-Methyl-1-propanol) CAS # 78-83-1 Purity 99%	(Lot SHBK0551)	62,671.0 µg/mL	+/- +/- +/-	364.3555 3,781.2173 3,790.1946	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	chloroform CAS # 67-66-3 Purity 99%	(Lot SHBL6923)	2,524.3 µg/mL	+/- +/- +/-	14.6762 152.2992 152.6608	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Bromochloromethane CAS # 74-97-5 Purity 98%	(Lot 00008541)	2,516.6 µg/mL	+/- +/- +/-	14.6320 151.8400 152.2005	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Tetrahydrofuran CAS # 109-99-9 Purity 99%	(Lot SHBJ6179)	5,045.5 µg/mL	+/- +/- +/-	29.3350 304.4174 305.1401	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	1,1,1-trichloroethane CAS # 71-55-6 Purity 98%	(Lot 190123CG)	2,514.9 µg/mL	+/- +/- +/-	14.6220 151.7366 152.0968	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	Cyclohexane CAS # 110-82-7 Purity 99%	(Lot MKCF5831)	2,521.5 µg/mL	+/- +/- +/-	14.6602 152.1333 152.4945	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	1,1-Dichloropropene CAS # 563-58-6 Purity 99%	(Lot 190919JLM)	2,522.3 µg/mL	+/- +/- +/-	14.6646 152.1785 152.5398	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	carbon tetrachloride CAS # 56-23-5 Purity 99%	(Lot SHBG8938V)	2,523.6 µg/mL	+/- +/- +/-	14.6726 152.2615 152.6230	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	n-Heptane (C7) CAS # 142-82-5 Purity 98%	(Lot SHBK8626)	2,515.8 µg/mL	+/- +/- +/-	14.6270 151.7883 152.1487	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,2-Dichloroethane CAS # 107-06-2 Purity 99%	(Lot MKCH9948)	2,522.6 µg/mL	+/- +/- +/-	14.6668 152.2011 152.5625	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Benzene CAS # 71-43-2 Purity 99%	(Lot SHBL4231)	2,514.6 µg/mL	+/- +/- +/-	14.6202 151.7185 152.0787	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Trichloroethene CAS # 79-01-6 Purity 99%	(Lot SHBJ4611)	2,512.9 µg/mL	+/- +/- +/-	14.6101 151.6129 151.9728	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	Methylcyclohexane CAS # 108-87-2 Purity 99%	(Lot SHBJ0457)	2,517.4 µg/mL	+/- +/- +/-	14.6362 151.8844 152.2450	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	1,2-Dichloropropane CAS # 78-87-5 Purity 99%	(Lot BCBR0882V)	2,519.5 µg/mL	+/- +/- +/-	14.6486 152.0126 152.3735	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane CAS # 123-91-1 Purity 99%	(Lot SHBL3022)	50,250.0 µg/mL	+/- +/- +/-	292.1426 3,031.8037 3,039.0017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane CAS # 74-95-3 Purity 99%	(Lot 10215970)	2,523.5 µg/mL	+/- +/- +/-	14.6718 152.2539 152.6154	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene CAS # 10061-01-5 Purity 99%	(Lot 200107JLM)	2,523.0 µg/mL	+/- +/- +/-	14.6689 152.2238 152.5852	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene CAS # 108-88-3 Purity 99%	(Lot MKCH9232)	2,523.3 µg/mL	+/- +/- +/-	14.6704 152.2389 152.6003	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate CAS # 97-63-2 Purity 99%	(Lot SHBF9649V)	2,515.4 µg/mL	+/- +/- +/-	14.6246 151.7637 152.1240	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene CAS # 10061-02-6 Purity 98%	(Lot 19420164-D1119)	2,521.1 µg/mL	+/- +/- +/-	14.6576 152.1061 152.4672	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane CAS # 79-00-5 Purity 99%	(Lot FGB01)	2,515.8 µg/mL	+/- +/- +/-	14.6268 151.7863 152.1467	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane CAS # 142-28-9 Purity 99%	(Lot BCBC6265)	2,518.8 µg/mL	+/- +/- +/-	14.6442 151.9673 152.3281	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene CAS # 127-18-4 Purity 99%	(Lot SHBJ7422)	2,513.1 µg/mL	+/- +/- +/-	14.6115 151.6280 151.9880	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	dibromochloromethane CAS # 124-48-1 Purity 99%	(Lot MKCK6472)	2,513.5 µg/mL	+/- +/- +/-	14.6137 151.6506 152.0106	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	1,2-Dibromoethane (EDB) CAS # 106-93-4 Purity 99%	(Lot BCBH3877V)	2,521.9 µg/mL	+/- +/- +/-	14.6624 152.1559 152.5171	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	Chlorobenzene CAS # 108-90-7 Purity 99%	(Lot SHBJ0839)	2,521.0 µg/mL	+/- +/- +/-	14.6573 152.1031 152.4642	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	m-Xylene CAS # 108-38-3 Purity 99%	(Lot SHBL0265)	1,257.9 µg/mL	+/- +/- +/-	7.3134 75.8932 76.0734	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	p-Xylene CAS # 106-42-3 Purity 99%	(Lot SHBJ7329)	1,260.0 µg/mL	+/- +/- +/-	7.3257 76.0214 76.2019	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	Ethylbenzene CAS # 100-41-4 Purity 99%	(Lot SHBL0706)	2,521.1 µg/mL	+/- +/- +/-	14.6580 152.1106 152.4718	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,1,1,2-Tetrachloroethane CAS # 630-20-6 Purity 98%	(Lot GC01)	2,515.5 µg/mL	+/- +/- +/-	14.6256 151.7735 152.1339	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	o-Xylene CAS # 95-47-6 Purity 99%	(Lot SHBK7739)	2,517.9 µg/mL	+/- +/- +/-	14.6391 151.9146 152.2752	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Styrene CAS # 100-42-5 Purity 99%	(Lot MKCG7519)	2,516.0 µg/mL	+/- +/- +/-	14.6282 151.8014 152.1618	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Isopropylbenzene (cumene) CAS # 98-82-8 Purity 99%	(Lot P15E008)	2,516.8 µg/mL	+/- +/- +/-	14.6326 151.8467 152.2072	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	bromoform CAS # 75-25-2 Purity 99%	(Lot SHBJ4835)	2,518.4 µg/mL	+/- +/- +/-	14.6420 151.9447 152.3055	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	bromodichloromethane CAS # 75-27-4 Purity 99%	(Lot MKCJ0238)	2,523.3 µg/mL	+/- +/- +/-	14.6704 152.2389 152.6003	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	1,1,2,2-Tetrachloroethane CAS # 79-34-5 Purity 99%	(Lot CFA4D)	2,520.9 µg/mL	+/- +/- +/-	14.6566 152.0956 152.4567	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	1,2,3-Trichloropropane CAS # 96-18-4 Purity 99%	(Lot BCBH8722V)	2,520.3 µg/mL	+/- +/- +/-	14.6530 152.0579 152.4189	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	trans-1,4-dichloro-2-butene CAS # 110-57-6 Purity 95%	(Lot MKBZ5026V)	2,511.8 µg/mL	+/- +/- +/-	14.6038 151.5480 151.9078	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	n-Propylbenzene CAS # 103-65-1 Purity 99%	(Lot MKCG9378)	2,518.3 µg/mL	+/- +/- +/-	14.6413 151.9372 152.2979	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Bromobenzene CAS # 108-86-1 Purity 99%	(Lot WXBC5147V)	2,520.1 µg/mL	+/- 14.6522 +/- 152.0503 +/- 152.4113	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	1,3,5-Trimethylbenzene CAS # 108-67-8 Purity 99%	(Lot BCBZ6781)	2,519.4 µg/mL	+/- 14.6479 +/- 152.0051 +/- 152.3659	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene CAS # 95-49-8 Purity 99%	(Lot MKCF5243)	2,519.4 µg/mL	+/- 14.6479 +/- 152.0051 +/- 152.3659	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene CAS # 106-43-4 Purity 99%	(Lot MKCC8496)	2,518.8 µg/mL	+/- 14.6442 +/- 151.9673 +/- 152.3281	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene CAS # 98-06-6 Purity 99%	(Lot STBD6954V)	2,518.6 µg/mL	+/- 14.6435 +/- 151.9598 +/- 152.3206	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	1,2,4-Trimethylbenzene CAS # 95-63-6 Purity 99%	(Lot WXBC4246V)	2,522.0 µg/mL	+/- 14.6631 +/- 152.1634 +/- 152.5247	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene CAS # 135-98-8 Purity 99%	(Lot MKCG5431)	2,519.8 µg/mL	+/- 14.6500 +/- 152.0277 +/- 152.3886	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	p-Isopropyltoluene (p-Cymene) CAS # 99-87-6 Purity 99%	(Lot MKCJ9905)	2,521.5 µg/mL	+/- 14.6602 +/- 152.1333 +/- 152.4945	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene CAS # 541-73-1 Purity 99%	(Lot BCBQ7100V)	2,517.6 µg/mL	+/- 14.6377 +/- 151.8995 +/- 152.2601	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene CAS # 106-46-7 Purity 99%	(Lot MKBS4401V)	2,520.3 µg/mL	+/- 14.6530 +/- 152.0579 +/- 152.4189	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene CAS # 104-51-8 Purity 99%	(Lot 09804AE)	2,523.9 µg/mL	+/- 14.6740 +/- 152.2766 +/- 152.6381	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene CAS # 95-50-1 Purity 99%	(Lot SHBK7741)	2,514.4 µg/mL	+/- 14.6188 +/- 151.7034 +/- 152.0636	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane CAS # 96-12-8 Purity 97%	(Lot FBL01)	2,510.7 µg/mL	+/- 14.5976 +/- 151.4831 +/- 151.8427	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene CAS # 120-82-1 Purity 99%	(Lot SHBJ9215)	2,521.6 µg/mL	+/- 14.6609 +/- 152.1408 +/- 152.5020	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene CAS # 87-68-3 Purity 98%	(Lot J31X013)	2,517.0 µg/mL	+/- 14.6341 +/- 151.8622 +/- 152.2228	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene CAS # 91-20-3 Purity 99%	(Lot MKBZ8680V)	2,511.4 µg/mL	+/- 14.6014 +/- 151.5224 +/- 151.8821	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene	2,519.3 µg/mL	+/- 14.6471	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)	+/- 151.9975	µg/mL	Unstressed
	Purity 99%		+/- 152.3584	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

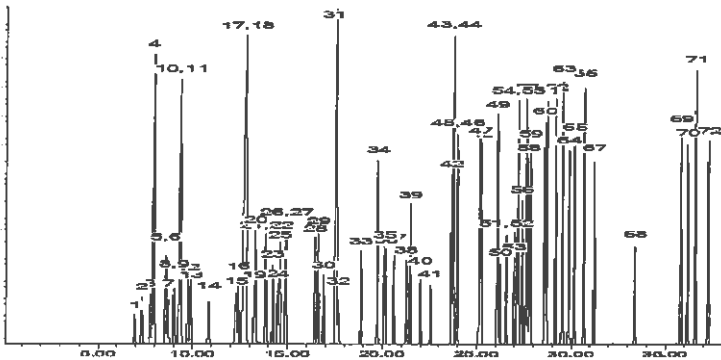
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 07-Apr-2020 **Balance:** B707717271


Tom Suckar - Mix Technician

Date Passed: 13-Apr-2020

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

VOA8260MEGA1_00122



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571992 Lot No.: A0159680

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : October 31, 2022 Storage: 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) CAS # 60-29-7 (Lot SHBK7710) Purity 99%	2,518.8 µg/mL	+/- 14.6442 µg/mL +/- 151.9673 µg/mL +/- 152.3281 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) CAS # 76-13-1 (Lot 00016133) Purity 99%	2,523.8 µg/mL	+/- 14.6733 µg/mL +/- 152.2690 µg/mL +/- 152.6305 µg/mL	Gravimetric Unstressed Stressed
3	1,1-dichloroethene CAS # 75-35-4 (Lot SHBK2437) Purity 99%	2,517.5 µg/mL	+/- 14.6370 µg/mL +/- 151.8919 µg/mL +/- 152.2525 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) CAS # 75-65-0 (Lot SHBL0592) Purity 99%	25,122.1 µg/mL	+/- 146.0546 µg/mL +/- 1,515.7284 µg/mL +/- 1,519.3270 µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate CAS # 79-20-9 (Lot SHBK5436) Purity 99%	5,041.4 µg/mL	+/- 29.3110 µg/mL +/- 304.1685 µg/mL +/- 304.8906 µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) CAS # 74-88-4 (Lot D4406-0122JM) Purity 99%	2,520.5 µg/mL	+/- 14.6544 µg/mL +/- 152.0729 µg/mL +/- 152.4340 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) CAS # 107-05-1 (Lot 191118KJ) Purity 99%	2,521.0 µg/mL	+/- 14.6573 µg/mL +/- 152.1031 µg/mL +/- 152.4642 µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane) CAS # 75-09-2 Purity 99%	(Lot SHBL3107)	2,518.6 µg/mL	+/- +/- +/-	14.6435 151.9598 152.3206	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Carbon disulfide CAS # 75-15-0 Purity 99%	(Lot U22D706)	2,521.9 µg/mL	+/- +/- +/-	14.6624 152.1559 152.5171	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	Acrylonitrile CAS # 107-13-1 Purity 99%	(Lot A0387097)	25,178.5 µg/mL	+/- +/- +/-	146.3823 1,519.1297 1,522.7364	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Methyl-tert-butyl ether (MTBE) CAS # 1634-04-4 Purity 99%	(Lot SHBL0822)	2,513.9 µg/mL	+/- +/- +/-	14.6159 151.6732 152.0333	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	cis-1,2-Dichloroethene CAS # 156-59-2 Purity 99%	(Lot MKCK1803)	2,517.3 µg/mL	+/- +/- +/-	14.6355 151.8768 152.2374	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Hexane (C6) CAS # 110-54-3 Purity 99%	(Lot SHBL0924)	2,521.1 µg/mL	+/- +/- +/-	14.6580 152.1106 152.4718	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	1,1-Dichloroethane CAS # 75-34-3 Purity 99%	(Lot 580900)	2,524.5 µg/mL	+/- +/- +/-	14.6777 152.3143 152.6759	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	2,2-Dichloropropane CAS # 594-20-7 Purity 98%	(Lot BCBX0066)	2,523.0 µg/mL	+/- +/- +/-	14.6690 152.2244 152.5858	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	trans-1,2-Dichloroethene CAS # 156-60-5 Purity 99%	(Lot MKBH9850V)	2,523.8 µg/mL	+/- +/- +/-	14.6733 152.2690 152.6305	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Isobutanol (2-Methyl-1-propanol) CAS # 78-83-1 Purity 99%	(Lot SHBK0551)	62,671.0 µg/mL	+/- +/- +/-	364.3555 3,781.2173 3,790.1946	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	chloroform CAS # 67-66-3 Purity 99%	(Lot SHBL6923)	2,524.3 µg/mL	+/- +/- +/-	14.6762 152.2992 152.6608	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Bromochloromethane CAS # 74-97-5 Purity 98%	(Lot 00008541)	2,516.6 µg/mL	+/- +/- +/-	14.6320 151.8400 152.2005	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Tetrahydrofuran CAS # 109-99-9 Purity 99%	(Lot SHBJ6179)	5,045.5 µg/mL	+/- +/- +/-	29.3350 304.4174 305.1401	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	1,1,1-trichloroethane CAS # 71-55-6 Purity 98%	(Lot 190123CG)	2,514.9 µg/mL	+/- +/- +/-	14.6220 151.7366 152.0968	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	Cyclohexane CAS # 110-82-7 Purity 99%	(Lot MKCF5831)	2,521.5 µg/mL	+/- +/- +/-	14.6602 152.1333 152.4945	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	1,1-Dichloropropene CAS # 563-58-6 Purity 99%	(Lot 190919JLM)	2,522.3 µg/mL	+/- +/- +/-	14.6646 152.1785 152.5398	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	carbon tetrachloride CAS # 56-23-5 Purity 99%	(Lot SHBG8938V)	2,523.6 µg/mL	+/- +/- +/-	14.6726 152.2615 152.6230	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	n-Heptane (C7) CAS # 142-82-5 Purity 98%	(Lot SHBK8626)	2,515.8 µg/mL	+/- +/- +/-	14.6270 151.7883 152.1487	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,2-Dichloroethane CAS # 107-06-2 Purity 99%	(Lot MKCH9948)	2,522.6 µg/mL	+/- +/- +/-	14.6668 152.2011 152.5625	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Benzene CAS # 71-43-2 Purity 99%	(Lot SHBL4231)	2,514.6 µg/mL	+/- +/- +/-	14.6202 151.7185 152.0787	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Trichloroethene CAS # 79-01-6 Purity 99%	(Lot SHBJ4611)	2,512.9 µg/mL	+/- +/- +/-	14.6101 151.6129 151.9728	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	Methylcyclohexane CAS # 108-87-2 Purity 99%	(Lot SHBJ0457)	2,517.4 µg/mL	+/- +/- +/-	14.6362 151.8844 152.2450	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	1,2-Dichloropropane CAS # 78-87-5 Purity 99%	(Lot BCBR0882V)	2,519.5 µg/mL	+/- +/- +/-	14.6486 152.0126 152.3735	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane CAS # 123-91-1 Purity 99%	(Lot SHBL3022)	50,250.0 µg/mL	+/- +/- +/-	292.1426 3,031.8037 3,039.0017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane CAS # 74-95-3 Purity 99%	(Lot 10215970)	2,523.5 µg/mL	+/- +/- +/-	14.6718 152.2539 152.6154	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene CAS # 10061-01-5 Purity 99%	(Lot 200107JLM)	2,523.0 µg/mL	+/- +/- +/-	14.6689 152.2238 152.5852	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene CAS # 108-88-3 Purity 99%	(Lot MKCH9232)	2,523.3 µg/mL	+/- +/- +/-	14.6704 152.2389 152.6003	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate CAS # 97-63-2 Purity 99%	(Lot SHBF9649V)	2,515.4 µg/mL	+/- +/- +/-	14.6246 151.7637 152.1240	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene CAS # 10061-02-6 Purity 98%	(Lot 19420164-D1119)	2,521.1 µg/mL	+/- +/- +/-	14.6576 152.1061 152.4672	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane CAS # 79-00-5 Purity 99%	(Lot FGB01)	2,515.8 µg/mL	+/- +/- +/-	14.6268 151.7863 152.1467	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane CAS # 142-28-9 Purity 99%	(Lot BCBC6265)	2,518.8 µg/mL	+/- +/- +/-	14.6442 151.9673 152.3281	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene CAS # 127-18-4 Purity 99%	(Lot SHBJ7422)	2,513.1 µg/mL	+/- +/- +/-	14.6115 151.6280 151.9880	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	dibromochloromethane CAS # 124-48-1 Purity 99%	(Lot MKCK6472)	2,513.5 µg/mL	+/- +/- +/-	14.6137 151.6506 152.0106	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	1,2-Dibromoethane (EDB) CAS # 106-93-4 Purity 99%	(Lot BCBH3877V)	2,521.9 µg/mL	+/- +/- +/-	14.6624 152.1559 152.5171	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	Chlorobenzene CAS # 108-90-7 Purity 99%	(Lot SHBJ0839)	2,521.0 µg/mL	+/- +/- +/-	14.6573 152.1031 152.4642	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	m-Xylene CAS # 108-38-3 Purity 99%	(Lot SHBL0265)	1,257.9 µg/mL	+/- +/- +/-	7.3134 75.8932 76.0734	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	p-Xylene CAS # 106-42-3 Purity 99%	(Lot SHBJ7329)	1,260.0 µg/mL	+/- +/- +/-	7.3257 76.0214 76.2019	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	Ethylbenzene CAS # 100-41-4 Purity 99%	(Lot SHBL0706)	2,521.1 µg/mL	+/- +/- +/-	14.6580 152.1106 152.4718	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,1,1,2-Tetrachloroethane CAS # 630-20-6 Purity 98%	(Lot GC01)	2,515.5 µg/mL	+/- +/- +/-	14.6256 151.7735 152.1339	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	o-Xylene CAS # 95-47-6 Purity 99%	(Lot SHBK7739)	2,517.9 µg/mL	+/- +/- +/-	14.6391 151.9146 152.2752	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Styrene CAS # 100-42-5 Purity 99%	(Lot MKCG7519)	2,516.0 µg/mL	+/- +/- +/-	14.6282 151.8014 152.1618	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Isopropylbenzene (cumene) CAS # 98-82-8 Purity 99%	(Lot P15E008)	2,516.8 µg/mL	+/- +/- +/-	14.6326 151.8467 152.2072	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	bromoform CAS # 75-25-2 Purity 99%	(Lot SHBJ4835)	2,518.4 µg/mL	+/- +/- +/-	14.6420 151.9447 152.3055	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	bromodichloromethane CAS # 75-27-4 Purity 99%	(Lot MKCJ0238)	2,523.3 µg/mL	+/- +/- +/-	14.6704 152.2389 152.6003	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	1,1,2,2-Tetrachloroethane CAS # 79-34-5 Purity 99%	(Lot CFA4D)	2,520.9 µg/mL	+/- +/- +/-	14.6566 152.0956 152.4567	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	1,2,3-Trichloropropane CAS # 96-18-4 Purity 99%	(Lot BCBH8722V)	2,520.3 µg/mL	+/- +/- +/-	14.6530 152.0579 152.4189	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	trans-1,4-dichloro-2-butene CAS # 110-57-6 Purity 95%	(Lot MKBZ5026V)	2,511.8 µg/mL	+/- +/- +/-	14.6038 151.5480 151.9078	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	n-Propylbenzene CAS # 103-65-1 Purity 99%	(Lot MKCG9378)	2,518.3 µg/mL	+/- +/- +/-	14.6413 151.9372 152.2979	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Bromobenzene CAS # 108-86-1 Purity 99%	(Lot WXBC5147V)	2,520.1 µg/mL	+/- +/- +/-	14.6522 152.0503 152.4113	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	1,3,5-Trimethylbenzene CAS # 108-67-8 Purity 99%	(Lot BCBZ6781)	2,519.4 µg/mL	+/- +/- +/-	14.6479 152.0051 152.3659	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene CAS # 95-49-8 Purity 99%	(Lot MKCF5243)	2,519.4 µg/mL	+/- +/- +/-	14.6479 152.0051 152.3659	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene CAS # 106-43-4 Purity 99%	(Lot MKCC8496)	2,518.8 µg/mL	+/- +/- +/-	14.6442 151.9673 152.3281	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene CAS # 98-06-6 Purity 99%	(Lot STBD6954V)	2,518.6 µg/mL	+/- +/- +/-	14.6435 151.9598 152.3206	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	1,2,4-Trimethylbenzene CAS # 95-63-6 Purity 99%	(Lot WXBC4246V)	2,522.0 µg/mL	+/- +/- +/-	14.6631 152.1634 152.5247	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene CAS # 135-98-8 Purity 99%	(Lot MKCG5431)	2,519.8 µg/mL	+/- +/- +/-	14.6500 152.0277 152.3886	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	p-Isopropyltoluene (p-Cymene) CAS # 99-87-6 Purity 99%	(Lot MKCJ9905)	2,521.5 µg/mL	+/- +/- +/-	14.6602 152.1333 152.4945	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene CAS # 541-73-1 Purity 99%	(Lot BCBQ7100V)	2,517.6 µg/mL	+/- +/- +/-	14.6377 151.8995 152.2601	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene CAS # 106-46-7 Purity 99%	(Lot MKBS4401V)	2,520.3 µg/mL	+/- +/- +/-	14.6530 152.0579 152.4189	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene CAS # 104-51-8 Purity 99%	(Lot 09804AE)	2,523.9 µg/mL	+/- +/- +/-	14.6740 152.2766 152.6381	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene CAS # 95-50-1 Purity 99%	(Lot SHBK7741)	2,514.4 µg/mL	+/- +/- +/-	14.6188 151.7034 152.0636	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane CAS # 96-12-8 Purity 97%	(Lot FBL01)	2,510.7 µg/mL	+/- +/- +/-	14.5976 151.4831 151.8427	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene CAS # 120-82-1 Purity 99%	(Lot SHBJ9215)	2,521.6 µg/mL	+/- +/- +/-	14.6609 152.1408 152.5020	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene CAS # 87-68-3 Purity 98%	(Lot J31X013)	2,517.0 µg/mL	+/- +/- +/-	14.6341 151.8622 152.2228	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene CAS # 91-20-3 Purity 99%	(Lot MKBZ8680V)	2,511.4 µg/mL	+/- +/- +/-	14.6014 151.5224 151.8821	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene	2,519.3 µg/mL	+/- 14.6471	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)	+/- 151.9975	µg/mL	Unstressed
	Purity 99%		+/- 152.3584	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

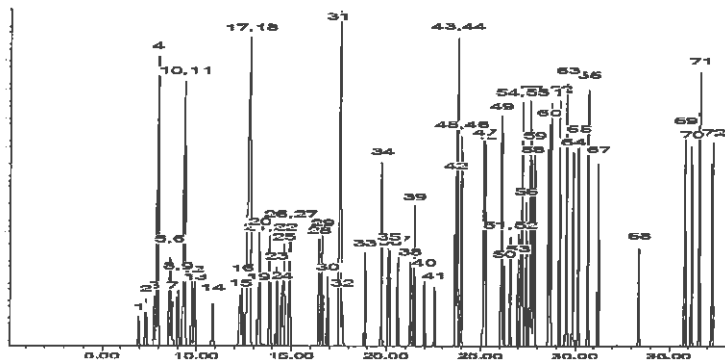
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 07-Apr-2020 **Balance:** B707717271


Tom Suckar - Mix Technician

Date Passed: 13-Apr-2020

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

VOA8260SURRES_00168



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 567650 **Lot No.:** A0156891
Description: 8260 Surrogate Standard
8260 Surrogate Standard 2,500µg/mL, P&T Methanol, 5mL/ampul
Container Size: 5 mL **Pkg Amt:** > 5 mL
Expiration Date: January 31, 2025 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Dibromofluoromethane	2,510.9 µg/mL	+/- 14.5986 µg/mL Gravimetric
	CAS # 1868-53-7 (Lot 0012016)		+/- 140.7837 µg/mL Unstressed
	Purity 99%		+/- 144.0778 µg/mL Stressed
2	1,2-Dichloroethane-d4	2,510.2 µg/mL	+/- 14.5945 µg/mL Gravimetric
	CAS # 17060-07-0 (Lot PR-29377)		+/- 140.7444 µg/mL Unstressed
	Purity 99%		+/- 144.0377 µg/mL Stressed
3	Toluene-d8	2,513.0 µg/mL	+/- 14.6105 µg/mL Gravimetric
	CAS # 2037-26-5 (Lot I-21928)		+/- 140.8986 µg/mL Unstressed
	Purity 99%		+/- 144.1955 µg/mL Stressed
4	1-Bromo-4-fluorobenzene (BFB)	2,514.4 µg/mL	+/- 14.6186 µg/mL Gravimetric
	CAS # 460-00-4 (Lot 20401KO)		+/- 140.9771 µg/mL Unstressed
	Purity 99%		+/- 144.2758 µg/mL Stressed
Solvent: P&T Methanol			
CAS # 67-56-1			
Purity 99%			

Reagent

VOA8260SURRES_00182



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 567650 **Lot No.:** A0172587

Description: 8260 Surrogate Standard
8260 Surrogate Standard 2,500µg/mL, P&T Methanol, 5mL/ampul

Container Size: 5 mL **Pkg Amt:** > 5 mL

Expiration Date: May 31, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dibromofluoromethane CAS # 1868-53-7 (Lot 012021) Purity 99%	2,510.9 µg/mL	+/- 14.5983 µg/mL +/- 140.7809 µg/mL +/- 144.0750 µg/mL	Gravimetric Unstressed Stressed
2	1,2-Dichloroethane-d4 CAS # 17060-07-0 (Lot PR-29377) Purity 99%	2,518.0 µg/mL	+/- 14.6399 µg/mL +/- 141.1818 µg/mL +/- 144.4852 µg/mL	Gravimetric Unstressed Stressed
3	Toluene-d8 CAS # 2037-26-5 (Lot PR-31750) Purity 99%	2,500.4 µg/mL	+/- 14.5375 µg/mL +/- 140.1949 µg/mL +/- 143.4753 µg/mL	Gravimetric Unstressed Stressed
4	1-Bromo-4-fluorobenzene (BFB) CAS # 460-00-4 (Lot 20401KO) Purity 99%	2,520.9 µg/mL	+/- 14.6567 µg/mL +/- 141.3444 µg/mL +/- 144.6516 µg/mL	Gravimetric Unstressed Stressed
Solvent: P&T Methanol CAS # 67-56-1 Purity 99%				

Reagent

VOABFBRES_00108



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 Lot No.: A0173810
Description : 4-Bromofluorobenzene Standard
4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol,
1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : June 30, 2026 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB) CAS # 460-00-4 (Lot 20401KO) Purity 99%	2,504.0 µg/mL	+/- 14.8730 µg/mL Gravimetric +/- 140.4298 µg/mL Unstressed +/- 143.7141 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VOABFBRES_00112



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Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0173810
Description : 4-Bromofluorobenzene Standard
4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol,
1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB) CAS # 460-00-4 (Lot 20401KO) Purity 99%	2,504.0 µg/mL	+/- 14.8730 µg/mL Gravimetric +/- 140.4298 µg/mL Unstressed +/- 143.7141 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

WCOD1000P_00036



CERTIFICATE OF ANALYSIS

Description: COD STANDARD, 1mL = 1mg COD

Mfg. Date: 08/31/2020

Catalog Number: LC13245

Exp. Date: 08/31/2022

Lot Number: K239-20

ANALYTICAL SECTION

Test	Specification	Test Result
Appearance	clear, colorless solution	Pass Test
Assay (as mg/mL COD)	1.00 mg/mL +/- 0.01	1.00 mg/mL
Traceable to NIST	Potassium Hydrogen Phthalate	84L

Intended Use - Product is intended for use in manufacturing procedures and laboratory procedures and protocols.

Storage Information - Unless otherwise noted on the product label, store the product under normal lab conditions in its tightly closed, original container. Do not pipet directly from the container or return unused portions to the container.

Instructions for Handling and Use - Please refer to the associated product label and Safety Data Sheet (SDS) for information regarding safety and handling of this product.

Preparation - All products are manufactured and tested according to established, documented procedures and methodology. Production documentation records manufacturing data, raw material traceability and testing history on a per lot basis. Balances, thermometers, and glassware are calibrated before first use and on a regular schedule with references traceable to NIST standards.

Submitted by: Greg Albright, Chemist Supervisor

An ISO9001:2015 certified company. Registration # 0306-01

04/19/2021 4:35 PM

Form #17.13 07/28/2016

Reagent

WCOD1000S_00021

Certificate of Analysis

Potassium Acid Phthalate Standard, 1000 ppm Chemical Oxygen Demand (COD)

Lot Number: 2103D87

Product Number: 5868

Manufacture Date: MAR 11, 2021

Expiration Date: AUG 2022

The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is estimated based upon the volumetric method of preparation. It is certified that a COD of 500 mg/L should be obtained on a 25.0 mL aliquot of this standard solution diluted to 50 mL. The manufacturing specification for this product is Chemical Oxygen Demand (COD) = 1.000 ± 0.005 mg per mL at 20°C. This is the equivalent quantity of Oxygen that this standard solution will consume, based on the reduction of a Potassium Dichromate Standard Solution under the specified conditions in the ASTM D 1252-95 test methods.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Acid Phthalate	877-24-7	ACS Acidimetric

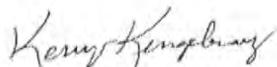
Test	Specification	Result
Appearance	Colorless liquid	Passed
Chemical Oxygen Demand (COD)	995-1005 ppm	1000 ppm

Specification	Reference
Potassium Acid Phthalate Solution, Standard (1 mL = 1 mg COD)	ASTM (D 1252 A)
Potassium Acid Phthalate Solution, Standard (1 mL = 1 mg/L)	ASTM (D 1252 B)
Stock Potassium Acid Phthalate	EPA (410.4)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
5868-16	500 mL natural poly	18 months

Recommended Storage: 2°C - 8°C (36°F - 46°F)



Kerry Kingsbury (03/11/2021)

Quality Control Supervisor

This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

Reagent

WNH31000P_00031



4265351
ID: WNH21000P_00021
Exp 03/19/23 Prpd PMH Opn 05/25/21
1000 ppm ammonia stock st



4265284
ID: WTKN1000F_00006
Exp 03/19/23 Prpd PMH Opn 05/25/21
1000 ppm ammonia stock st

CERTIFICATE OF ANALYSIS

Description: AMMONIA (as NITROGEN) STANDARD, 1000ppm (1mL = 1mg N)

Mfg. Date: 03/19/2021

Catalog Number: LC17940

Exp. Date: 03/19/2023

Lot Number: L078-13

ANALYTICAL SECTION

Test	Specification	Test Result
Appearance	clear, colorless solution	Pass Test
Concentration ppm N	1000ppm +/- 10ppm	996 ppm
Concentration mg N/mL	1.000 +/- 0.010 mg N/mL	0.996 mg N/mL
Traceable to NIST	Potassium Chloride	999b

Intended Use - Product is intended for use in manufacturing procedures and laboratory procedures and protocols.

Storage Information - Unless otherwise noted on the product label, store the product under normal lab conditions in its tightly closed, original container. Do not pipet directly from the container or return unused portions to the container.

Instructions for Handling and Use - Please refer to the associated product label and Safety Data Sheet (SDS) for information regarding safety and handling of this product.

Preparation - All products are manufactured and tested according to established, documented procedures and methodology. Production documentation records manufacturing data, raw material traceability and testing history on a per lot basis. Balances, thermometers, and glassware are calibrated before first use and on a regular schedule with references traceable to NIST standards.

Submitted by: Greg Albright, Chemist Supervisor

An ISO9001:2015 certified company. Registration # 0306-01

05/25/2021 1:29 PM

Form #17.13 07/28/2016

Reagent

WNH31000S_00021



Jackson's Pointe Commerce Park - Building 1000
1010 Jackson's Pointe Court, Zelenople, PA 16063
Ph: 412-826-5230 | Fax: 724-473-0647 | www.labchem.com

3710271
ID: WNH31000S_00020
Exp: 03/03/22 Ppd: TAM Opn: 05/21/20
1000 ppm ammonia secondary

CERTIFICATE OF ANALYSIS

Description: AMMONIA (as NITROGEN) STANDARD, 1000ppm (1mL = 1mg N)

Mfg. Date: 03/03/2020

Catalog Number: LC17940

Exp. Date: 03/03/2022

Lot Number: K058-18

ANALYTICAL SECTION

Test	Specification	Test Result
Appearance	clear, colorless solution	Pass Test
Concentration ppm N	1000ppm +/- 10ppm	1006 ppm
Concentration mg N/mL	1.000 +/- 0.010 mg N/mL	1.006 mg N/mL
Traceable to NIST	Potassium Chloride	999b

Intended Use - Product is intended for use in manufacturing procedures and laboratory procedures and protocols.

Storage Information - Unless otherwise noted on the product label, store the product under normal lab conditions in its tightly closed, original container. Do not pipet directly from the container or return unused portions to the container.

Instructions for Handling and Use - Please refer to the associated product label and Safety Data Sheet (SDS) for information regarding safety and handling of this product.

Preparation - All products are manufactured and tested according to established, documented procedures and methodology. Production documentation records manufacturing data, raw material traceability and testing history on a per lot basis. Balances, thermometers, and glassware are calibrated before first use and on a regular schedule with references traceable to NIST standards.

Submitted by: Greg Albright, Chemist Supervisor

An ISO9001:2008 certified company. Registration # 0306-01

05/21/2020 8:51 PM

Form #17.13 07/28/2016

Reagent

WpHBuffer7CCV_00079



4538572

ID: WpHBuffer7CCV_00079
Exp: 09/29/23 Ppd: MTW Opn: 11/10/21
pH Buffer 7 LCS

CERTIFICATE OF ANALYSIS

Description: BUFFER SOLUTION pH 7.0 Yellow

Mfg. Date: 09/29/2021

Catalog Number: LC12380

Exp. Date: 09/29/2023

Lot Number: L265-02

ANALYTICAL SECTION

Test	Specification	Test Result
Appearance	clear, yellow solution	Pass Test
pH @ 25 degrees C	pH 7.00 +/- 0.01	7.01
Traceable to NIST SRMs		186g 187f

Intended Use - Product is intended for use in manufacturing procedures and laboratory procedures and protocols.

Storage Information - Unless otherwise noted on the product label, store the product under normal lab conditions in its tightly closed, original container. Do not pipet directly from the container or return unused portions to the container.

Instructions for Handling and Use - Please refer to the associated product label and Safety Data Sheet (SDS) for information regarding safety and handling of this product.

Preparation - All products are manufactured and tested according to established, documented procedures and methodology. Production documentation records manufacturing data, raw material traceability and testing history on a per lot basis. Balances, thermometers, and glassware are calibrated before first use and on a regular schedule with references traceable to NIST standards.

Submitted by: Greg Albright, Chemist Supervisor

An ISO9001:2015 certified company. Registration # 0306-01

11/10/2021 1:43 PM

Form #17.13 07/28/2016

Reagent

WpHBuffer7P_00038



4538549

ID: WpHBuffer7P_00038

Exp 08/09/23 PpdMTW Opn:11/10/21
pH Buffer 7**CERTIFICATE OF ANALYSIS**

Description: BUFFER SOLUTION pH 7.0

Mfg. Date: 08/09/2021

Catalog Number: LC12370

Exp. Date: 08/09/2023

Lot Number: L217-01

ANALYTICAL SECTION

Test	Specification	Test Result
Appearance	clear, colorless solution	Pass Test
pH @ 25 degrees C	pH 7.00 +/- 0.01	7.01
Verified against NIST buffer		186g, 187f

Intended Use - Product is intended for use in manufacturing procedures and laboratory procedures and protocols.

Storage Information - Unless otherwise noted on the product label, store the product under normal lab conditions in its tightly closed, original container. Do not pipet directly from the container or return unused portions to the container.

Instructions for Handling and Use - Please refer to the associated product label and Safety Data Sheet (SDS) for information regarding safety and handling of this product.

Preparation - All products are manufactured and tested according to established, documented procedures and methodology. Production documentation records manufacturing data, raw material traceability and testing history on a per lot basis. Balances, thermometers, and glassware are calibrated before first use and on a regular schedule with references traceable to NIST standards.

Submitted by: Greg Albright, Chemist Supervisor

An ISO9001:2015 certified company. Registration # 0306-01

11/10/2021 1:43 PM

Form #17.13 07/28/2016

Reagent

WResPSP_00080



4549931

ID: WResPSP_00080

Exp: 04/30/24 Prpd: KMM
Phenova Residue LCS

info@phenova.com • www.phenova.com • 1-866-942-2978

WP Solids			Lot #8222-09	
TNI Analyte Code	Analyte	Certified Value mg/L	Acceptance Limits mg/L	%
1955	Total Dissolved Solids at 180° (TFR)	150	105 - 195	70.0 - 130
1960	Total Suspended Solids (TSS)	29.0	20.2 - 34.9	69.7 - 120
1950	Total Solids (TS)	179	134 - 224	74.9 - 125

Certified Values = "100% true concentration" of each analyte as determined from gravimetric and volumetric measurements made during standard manufacture.

Acceptance Limits = Generated based on the criteria established by The NELAC Institute (TNI) Fields of Proficiency Testing tables using regression equations and/or fixed percentage limits, historical data and other criteria distributed by accrediting agencies as applicable. Please note that regression based acceptance criteria are based on the Assigned Value and may have different criteria at different concentrations.

Solvent = Deionized Water

Store at 20-25°C.

Expiration Date: 04/24

Catalog #QC-SOL-WP

Preparation Instructions: The WP Solids standard is provided as a ready-to-use standard that does not require dilution prior to use. Shake adequately to homogenize the standard before removing an aliquot for analysis. Analyze by your normal procedures.

Note: It is strongly recommended that you analyze for TSS prior to removing aliquots for other analyses from the Solids bottle.

Approved by: BJW

Reviewed by: AMB

Date: 10/21

Date: 10/21