

From: Harvey, Christopher <CHarvey@trccompanies.com>
Sent: Tuesday, July 11, 2023 12:41 PM
To: Krueger, Sarah E - DNR
Cc: Webb, Carrie A - DNR; Smith, Jason; Wachholz, Benjamin
Subject: RE: [EXTERNAL] Notice to Proceed: HARP Site Long Term Monitoring (02-08-587669) and HARP Downstream of Hayton Millpond Dam (02-08-587108)
Attachments: 40262368_frc.pdf; 10654073_1668C_L2_R3_dfr.pdf; TableX_Surface_Water_Sampling_Results_071123.pdf

CAUTION: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Sarah,

Good afternoon. I am providing you with the surface water sample results from the May surface water sampling event. I have also included a summary table of the results.

Please let me know if you have any questions or comments.

Thank you,
Chris

Chris Harvey, PE
C 312-909-0043

From: Harvey, Christopher
Sent: Wednesday, May 3, 2023 1:25 PM
To: Krueger, Sarah E - DNR <sarah.krueger@wisconsin.gov>
Cc: Webb, Carrie A - DNR <CarrieA.Webb@wisconsin.gov>; Smith, Jason <jason.smith@tecumseh.com>; Wachholz, Benjamin <BWachholz@trccompanies.com>
Subject: RE: [EXTERNAL] Notice to Proceed: HARP Site Long Term Monitoring (02-08-587669) and HARP Downstream of Hayton Millpond Dam (02-08-587108)

Sarah,

Good afternoon. I am providing notice to you that on Tuesday, May 16, TRC will be conducting the May 2023 surface water sampling activities in accordance with the Long-Term Monitoring Plan for Surface Water and Sediment associated with HARP.

If you have any questions, please contact me at 312-909-0043.

Chris

Chris Harvey, PE
C 312-909-0043

From: Krueger, Sarah E - DNR <sarah.krueger@wisconsin.gov>
Sent: Monday, April 24, 2023 11:44 AM
To: Harvey, Christopher <CHarvey@trccompanies.com>
Cc: Webb, Carrie A - DNR <CarrieA.Webb@wisconsin.gov>; Smith, Jason <jason.smith@tecumseh.com>; Wachholz, Benjamin <BWachholz@trccompanies.com>
Subject: RE: [EXTERNAL] Notice to Proceed: HARP Site Long Term Monitoring (02-08-587669) and HARP Downstream of Hayton Millpond Dam (02-08-587108)

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Thank you for the clarification Chris.

Just to clarify, the minimum completeness goal should read “~~Five~~ **Three individual** samples of three fish each for common carp, i.e., ~~each sample will be comprised of three fish each.~~”? Apologies for the confusion related to my comment I missed changing the Five to Three. We assume the information in Table 4-1 is the correct information and only need clarification between the text and table since they seem to indicate two different minimum completeness goals.

Feel free to call if there is still confusion or questions related to the minimum completeness goal.

Thank you,
Sarah

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Sarah Krueger, P.G.

Phone: (920) 510-8277

Sarah.Krueger@wisconsin.gov

From: Harvey, Christopher <CHarvey@trccompanies.com>

Sent: Monday, April 24, 2023 11:30 AM

To: Krueger, Sarah E - DNR <sarah.krueger@wisconsin.gov>

Cc: Webb, Carrie A - DNR <CarrieA.Webb@wisconsin.gov>; Smith, Jason <jason.smith@tecumseh.com>;

Wachholz, Benjamin <BWachholz@trccompanies.com>

Subject: RE: [EXTERNAL] Notice to Proceed: HARP Site Long Term Monitoring (02-08-587669) and HARP Downstream of Hayton Millpond Dam (02-08-587108)

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Sarah,

Thank you. We had a little confusion on the correct wording from your last comment. We confirm that "Five individual fish each for common carp." As presented on Table 4-1, the minimum completeness goal for common carp is three fish from a location.

We would anticipate that Figure 2 from the Site Investigation Work Plan Revision 5 and Figure 2 from the Natural Recovery Monitoring Plan for Surface Water and Sediment Revision 4 will be updated following the finalization of sampling locations and geomorphic evaluation. Thank you for the note regarding the TRC sediment sampling/transect location (August 2015); we will ensure they are visible in our Site Investigation Report figures.

Thank you.

Chris

Chris Harvey, PE
C 312-909-0043

From: Krueger, Sarah E - DNR <sarah.krueger@wisconsin.gov>
Sent: Thursday, April 20, 2023 8:02 AM
To: Smith, Jason <jason.smith@tecumseh.com>; Harvey, Christopher <CHarvey@trccompanies.com>
Cc: Webb, Carrie A - DNR <CarrieA.Webb@wisconsin.gov>
Subject: [EXTERNAL] Notice to Proceed: HARP Site Long Term Monitoring (02-08-587669) and HARP Downstream of Hayton Millpond Dam (02-08-587108)

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ALWAYS hover over the link to preview the actual URL/site and confirm its legitimacy.

Jason and Chris,

DNR has reviewed the Natural Recovery Monitoring Plan for Fish Tissue Monitoring Revision 2, the Natural Recovery Monitoring Plan for Surface Water and Sediment Revision 4, the Site Investigation Work Plan Revision 5, and the Quality Assurance Project Plan Revision 4, all dated January 27, 2023. The comments and conditions from the November 28, 2022 Letters for each associated document have been addressed with one exception.

The Natural Recovery Monitoring Plan for Fish Tissue Monitoring Revision 2, section 4.1, the minimum completeness goal still indicates that there will be 3 individual fish making up each sample for common carp. The word “composite” was removed in the revision for the minimum completeness goal but the remainder of the language should be updated we assume to state, “Five **individual** samples of three fish each for common carp, ~~i.e., each sample will be comprised of three fish each.~~” Please confirm what the minimum completeness goal is for common carp before implementing the fish tissue sampling.

We anticipate that Figure 2 from the Site Investigation Work Plan Revision 5 will be updated following the finalization of sampling locations and geomorphic evaluation, please note that the symbol for the TRC sediment sampling/transect location (August 2015) is not visible on the figure outside of the legend.

We also anticipate a finalized Figure 2 from the Natural Recovery Monitoring Plan for Surface Water and Sediment Revision 4 may be necessary following the geomorphic evaluation.

Please note that I will be on leave (expected to start in June) and unable to participate in the field effort this spring and summer. Meanwhile, please copy Carrie Webb (copied) on communications as she will be the main point of contact in my absence.

If you have any questions or concerns, please reach out to us.

Thank you,
Sarah

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Sarah Krueger, P.G.

Contaminated Sediment Specialist

Wisconsin Department of Natural Resources

2984 Shawano Avenue, Green Bay WI 54313-6727

Phone: (920) 510-8277

Sarah.Krueger@wisconsin.gov



dnr.wi.gov



Report Prepared for:

Tod Noltemeyer
PACE Wisconsin
6409 Odana Road
Madison WI 53719

**REPORT OF
LABORATORY
ANALYSIS
FOR PCBs**

Report Prepared Date:

July 7, 2023

Report Information:

Pace Project #: 10654073
Sample Receipt Date: 05/20/2023
Client Project #: 40262368 TRC Madison
Client Sub PO #: N/A
State Cert #: 999407970

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCB Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Scott Unze, your Pace Project Manager.

This report has been reviewed by:



July 07, 2023

Carolynne Trout, Project Manager
(612) 607-6351
(612) 607-6444 (fax)
Carolynne.Trout@pacelabs.com



Report of Laboratory Analysis

This report should not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

The results relate only to the samples included in this report.



DISCUSSION

This report presents the results from the analyses performed on eleven samples submitted by a representative of Pace Analytical Services, Inc. The samples were analyzed for the presence or absence of selected polychlorinated biphenyl (PCB) congeners using USEPA Method 1668C. Reporting limits were based on the statistically derived MDLs and adjusted for the amount of sample extracted. Levels below the calibration range flagged "J" as estimated concentrations. Results based on the the quantitation limits were also included (as Additional Results). For the MDL based data set, the "A" flags for reporting limits determined based on the signal to noise ratio were removed per client request. This report was revised to correct issues with flags on the MDL results provided as additional data. A second revision was prepared to remove "A" flags from the results tables and move the MDL based results to the bookmarked section of the report. A third revision of this report was prepared to change the method reference from 1668A to 1668C and to correct the laboratory spike duplicate table.

Sample "NR-SW-DUP1-202305" was expected to be a duplicate of sample "NR-SW-DS2-202305" but had significant differences between the determined concentrations. It should be noted that one bottle of each sample was provided to the Minnesota laboratory, therefore, no additional information relating the the laboratory duplicate bottle identification was available. However, the extracts in question were reanalyzed to verify the vial identification. The results were in agreement and were included in this revision as "informational" results. Informational results are excluded from electronic deliverables.

The isotopically-labeled PCB internal standards in the sample extracts were recovered within the target ranges specified in the method. Since the quantification of the native PCB congeners was based on internal standard and isotope dilution methodology, the data were automatically corrected for variation in recovery and accurate values were obtained. Incorrect isotope ratios were obtained for selected PCB congeners. The affected congeners were flagged "I" on the results tables. Any associated target analyte detections were provided under the estimated maximum possible concentration (EMPC) column on the results table.

A laboratory method blank was prepared and analyzed with each sample batch as part of our routine quality control procedures. The results show the blanks to be free of PCB congeners to the reporting limits. However, a trace signal at the retention time of congener 5 was present in the method blank associated with sample NR-SW-BKG2-202305. This congener was not detected in the sample extract. This indicates that the sample preparation procedures did not significantly impact the PCB

REPORT OF LABORATORY ANALYSIS

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DISCUSSION

content determined for the sample material.

Laboratory spike samples were also prepared with the sample batch using reference material that had been fortified with native standards. The results show that the spiked native compounds were recovered at 80-117%, with relative percent differences of 0.0-17.0%. These values were within method limits. Matrix spikes were not prepared with the sample batch.

REPORT OF LABORATORY ANALYSIS

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Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Missouri	10100
Alabama	40770	Montana	CERT0092
Alaska-DW	MN00064	Nebraska	NE-OS-18-06
Alaska-UST	17-009	Nevada	MN00064
Arizona	AZ0014	New Hampshire	2081
Arkansas - WW	88-0680	New Jersey	MN002
Arkansas-DW	MN00064	New York	11647
California	2929	North Carolina-	27700
Colorado	MN00064	North Carolina-	530
Connecticut	PH-0256	North Dakota	R-036
Florida	E87605	Ohio-DW	41244
Georgia	959	Ohio-VAP (170	CL101
Hawaii	MN00064	Ohio-VAP (180	CL110
Idaho	MN00064	Oklahoma	9507
Illinois	200011	Oregon-Primary	MN300001
Indiana	C-MN-01	Oregon-Second	MN200001
Iowa	368	Pennsylvania	68-00563
Kansas	E-10167	Puerto Rico	MN00064
Kentucky-DW	90062	South Carolina	74003
Kentucky-WW	90062	Tennessee	TN02818
Louisiana-DEQ	AI-84596	Texas	T104704192
Louisiana-DW	MN00064	Utah	MN00064
Maine	MN00064	Vermont	VT-027053137
Maryland	322	Virginia	460163
Michigan	9909	Washington	C486
Minnesota	027-053-137	West Virginia-D	382
Minnesota-Ag	via MN 027-053	West Virginia-D	9952C
Minnesota-Petr	1240	Wisconsin	999407970
Mississippi	MN00064	Wyoming-UST	via A2LA 2926.

REPORT OF LABORATORY ANALYSIS

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Report No.....10654073



Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Appendix A

Sample Management

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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Effective Date: 4/14/2023

Sample Condition
Upon Receipt

Client Name: PAGE Green Bay

Project #: WO#: 10654073

Courier: FedEx UPS USPS Client
 Pace Speedee Commercial

PM: SCU **Due Date:** 06/12/23
CLIENT: PASI-WI

See Exceptions ENV-FRM-MIN4-0142

Tracking Number: _____

Custody Seal on Cooler/Box Present? Yes No **Seals Intact?** Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer: T1 (0461) T2 (0436) T3 (0459) T4 (0402) T5 (0178)
 T6 (0235) T7 (0042) T8 (0775) T9(0727) 01339252/1710

Biological Tissue Frozen? Yes No N/A

Temp Blank? Yes No

Type of Ice: Wet Blue Dry None
 Melted

Did Samples Originate in West Virginia? Yes No

Were All Container Temps Taken? Yes No N/A

Temp should be above freezing to 6 °C

Cooler temp Read w/Temp Blank: 3.7 °C

Average Corrected Temp (no temp blank only): _____ °C

Correction Factor: +0.2 **Cooler Temp Corrected w/temp blank:** 3.9 °C

See Exceptions ENV-FRM-MIN4-0142 1 Container

USDA Regulated Soil: N/A, water sample/other: _____

Date/Initials of Person Examining Contents: ED 5:20:23

Did samples originate in a quarantine zone within the United States: AL, AR, AZ CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

Location (Check one): <input type="checkbox"/> Duluth <input checked="" type="checkbox"/> Minneapolis <input type="checkbox"/> Virginia	COMMENTS
Chain of Custody Present and Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Sampler Name and/or Signature on COC? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	3.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4. If fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8 hr, <24 <input type="checkbox"/> No
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. <input type="checkbox"/> Fecal Coliform <input type="checkbox"/> HPC <input type="checkbox"/> Total Coliform/E.coli <input type="checkbox"/> BOD/cBOD <input type="checkbox"/> Hex Chrom <input type="checkbox"/> Turbidity <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Orthophos <input type="checkbox"/> Other _____
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Sufficient Sample Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Is sediment visible in the dissolved container? <input type="checkbox"/> Yes <input type="checkbox"/> No
Field Filtered Volume Received for Dissolved Tests? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. If no, write ID/Date/Time of container below: 1 AC111 / sample <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142
Is sufficient information available to reconcile the samples to the COC? Matrix: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other	12. Sample #
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> NaOH <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> Zinc Acetate
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO3, H2SO4, <2pH, NaOH >9 Sulfide, NaOH >10 Cyanide) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Positive for Residual Chlorine? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxins/PFAS (*If adding preservative to a container, it must be added to associated field and equipment blanks--verify with PM first.) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	pH Paper Lot # Residual Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Headspace in Methyl Mercury Container? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Extra labels present on soil VOA or WIDRO containers? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14. <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142
Headspace in VOA Vials (greater than 6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15. Pace Trip Blank Lot # (if purchased): _____
3 Trip Blanks Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Eric Wang Date: 05/22/23

Field Data Required? Yes No

NOTE: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled By: ED Line: 2

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **TRC** Billing Information: **in PO**

Address: **999 Fourier Drive, Suite 101** **Madison, WI 53717** Email To: **bwachholz@trccompanies.com**

Report To: **Ben Wachholz** Site Collection Info/Address: **Chilton, WI**

Copy To: **Chris Harvey** Customer Project Name/Number: **HARP 471202 Phase 100 Task 9300** State: **WI** County/City: **Calumet** Time Zone Collected: **[] PT [] MT [] CT [] ET**

Phone: **608-354-3923** Site/Facility ID #: **200601** Compliance Monitoring? **[] Yes [] No**

Email: **charvey@trccompanies.com** Collected By (print): **Ben Wachholz** Purchase Order #: **200601** DW PWS ID #: **---** DW Location Code: **---**

Collected By (signature): **[Signature]** Turnaround Date Required: **standard** Immediately Packed on Ice: **[X] Yes [] No**

Sample Disposal: **[] Dispose as appropriate [] Return [] Archive [] Hold** Rush: **[] 2 Day [] 3 Day [] 4 Day [] 5 Day** Field Filtered (if applicable): **[X] Yes [] No** Analysis: **dissolved organic carbon**

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	PCB Congeners (EPA 166b, 169b)	TSS (total suspended solids)	TOC (total organic carbon)	DOC (dissolved organic carbon)							
			Date	Time	Date	Time													
NR-SW-DS2-202305	W	G	5/16/23	11:15				5	X	X	X	X							
NR-SW-DUPI-202305	W	G	5/16/23	-				5	X	X	X	X							
NR-SW-EB-202305	W	G	5/16/23	11:30				2	X										
NR-SW-FB-202305	W	G	5/16/23	11:45				2	X										
NR-SW-DS1-202305	W	G	5/16/23	12:45				5	X	X	X	X							
NR-SW-OU4-202305	W	G	5/16/23	13:15				5	X	X	X	X							
NR-SW-BKG1-202305	W	G	5/16/23	14:10				5	X	X	X	X							
NR-SW-OU3-202305	W	G	5/16/23	15:10				5	X	X	X	X							
NR-SW-OU2-202305	W	G	5/16/23	16:15				5	X	X	X	X							
NR-SW-OU1-202305	W	G	5/16/23	17:00				5	X	X	X	X							

Customer Remarks / Special Conditions / Possible Hazards: **PCB congeners analyzed by Minneapolis and other analyses performed by Green Bay**

Type of Ice Used: **Wet** **Blue** **Dry** **None** SHORT HOLDS PRESENT (<72 hours): **Y N N/A**

Packing Material Used: **[Signature]** Lab Tracking #: **2896883**

Radchem sample(s) screened (<500 ppm): **Y N NA** Samples received via: **FEDEX UPS Client Courier Pace Courier**

Relinquished by/Company (Signature): **Ben Wachholz (TRC)** Date/Time: **5/17/23 18:30** Received by/Company (Signature): **[Signature]** Date/Time: **---**

Relinquished by/Company (Signature): **Fedex** Date/Time: **5-18-23 0925** Received by/Company (Signature): **Robert Pace** Date/Time: **5-18-23 0925**

Relinquished by/Company (Signature): **---** Date/Time: **---** Received by/Company (Signature): **---** Date/Time: **---**

Lab Sample Temperature Info: Temp Blank Received: **Y N NA** Therm ID#: **---** Cooler 1 Temp Upon Receipt: **---** °C Cooler 1 Therm Corr. Factor: **---** °C Cooler 1 Corrected Temp: **---** °C Comments: **[Signature]**

Non Conformance(s): **YES NO** Page: **---** of: **---**

Report No.....10654073_1668C_L2_R3_dfr

Revision 3

Page 8 of 215

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-In Number Here

40262368

ALL SHADED AREAS are for LAB USE ONLY

Container Preservative Type ** **U U 2 2** Lab Project Manager: **---**

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses: **PCB Congeners (EPA 166b, 169b)**, **TSS (total suspended solids)**, **TOC (total organic carbon)**, **DOC (dissolved organic carbon)**

Lab Profile/Line: Lab Sample Receipt Checklist:

- Custody Seals Present: **Y N NA**
- Custody Signatures Present: **Y N NA**
- Collector Signatures Present: **Y N NA**
- Bottles Intact: **Y N NA**
- Correct Bottles: **Y N NA**
- Sufficient Volume: **Y N NA**
- Samples Received on Ice: **Y N NA**
- VOA - Headspace Acceptable: **Y N NA**
- USDA Regulated Soils: **Y N NA**
- Samples in Holding Time: **Y N NA**
- Residual Chlorine Present: **Y N NA**
- Cl Strips: **---**
- Sample pH Acceptable: **Y N NA**
- pH Strips: **---**
- Sulfide Present: **Y N NA**
- Lead Acetate Strips: **---**

LAB USE ONLY: Lab Sample # / Comments: **001**, **002**, **003**, **004**, **005**, **006**, **007**, **008**, **009**, **010**

40262368

CHAIN-OF-CUSTODY Analytical Request Document

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-In Number Here

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

ALL SHADED AREAS are for LAB USE ONLY

Company: TRC
 Address: 999 Fouries Drive, Suite 101, Madison, WI 53717
 Report To: Ben Wachholz
 Copy To: Chris Harvey
 Customer Project Name/Number: HARP 471202 Phase 100 Task 9300
 State: WI County/City: Calumet
 Phone: 608-354-3923
 Email: charvey@trccompanies.com
 Collected By (print): Ben Wachholz
 Collected By (signature): Ben Wachholz
 Sample Disposal: [] Dispose as appropriate [] Return [] Archive [] Hold
 * Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Billing Information: in PO
 Email To: bwachholz@trccompanies.com
 Site Collection Info/Address: Chilton, WI

Container Preservative Type **: U1U1212
 Lab Project Manager:
 ** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses: PCB Congeners, TSS, TOC, DOC
 Lab Profile/Line: Lab Sample Receipt Checklist:
 Custody Seals Present/Intact Y N NA
 Custody Signatures Present Y N NA
 Collector Signature Present Y N NA
 Bottles Intact Y N NA
 Correct Bottles Y N NA
 Sufficient Volume Y N NA
 Samples Received on Ice Y N NA
 VOA - Headspace Acceptable Y N NA
 USDA Regulated Soils Y N NA
 Samples in Holding Time Y N NA
 Residual Chlorine Present Y N NA
 Cl Strips: Y N NA
 Sample pH Acceptable Y N NA
 pH Strips: Y N NA
 Sulfide Present Y N NA
 Lead Acetate Strips: Y N NA
 LAB USE ONLY:
 Lab Sample #: 011
 Comments:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	PCB Congeners	TSS	TOC	DOC
			Date	Time	Date	Time						
NR-SW-BK62-202805	W	G	5/16/23	17:40				5	X	X	X	X

Customer Remarks / Special Conditions / Possible Hazards: PCB congeners analyzed by Minneapolis and other analyses performed by Green Bay
 Type of Ice Used: Wet Blue Dry None
 Packing Material Used: D
 Radchem sample(s) screened (<500 cpm): Y N NA
 SHORT HOLDS PRESENT (<72 hours): Y N N/A
 Lab Tracking #: 2896882
 Samples received via: FEDEX UPS Client Courier Pace Courier
 Lab Sample Temperature Info:
 Temp Blank Received: Y N NA
 Therm ID#:
 Cooler 1 Temp Upon Receipt: 10°C
 Cooler 1 Therm Corr. Factor: 0°C
 Cooler 1 Corrected Temp: 10°C
 Comments:
 Trip Blank Received: Y N NA
 HCL MeOH TSP Other
 Non Conformance(s): YES NO
 Page: of:

Relinquished by/Company (Signature): Ben Wachholz (TRC) Date/Time: 5/17/23 18:30
 Received by/Company (Signature): [Signature] Date/Time: [Blank]
 Relinquished by/Company (Signature): FedEx Date/Time: 5-18-23 0925
 Received by/Company (Signature): Radwin Pace Date/Time: 5-18-23 0925
 Relinquished by/Company (Signature): [Blank] Date/Time: [Blank]
 Received by/Company (Signature): [Blank] Date/Time: [Blank]

Report No.: 10654073_1668C_L2_R3_dfr

Revision 3


Page 9 of 215

Sample Condition Upon Receipt Form (SCUR)

Client Name: TRC

Project #:

WO#: 40262368



40262368

Courier: CS Logistics Fed Ex Speedee UPS Walto
 Client Pace Other: _____

Tracking #: 7721 7851 3973

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR - 117 Type of Ice: Wet Blue Dry None Meltwater Only

Cooler Temperature Uncorr: 2.0 /Corr: 2.0

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:
 Date: 5-18-23 /Initials: RA
 Labeled By Initials: ARY

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input type="checkbox"/> Yes <input type="checkbox"/> No	5.
- DI VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Correct Type: <u>Pace Green Bay</u> Pace IR, Non-Pace		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W R.H.6-IP-23</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logit



Reporting Flags

- A = Reporting Limit based on signal to noise (EDL)
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- H2 = Extracted outside of holding time
- I = Isotope ratio out of specification
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Appendix B

Sample Analysis Summary

REPORT OF LABORATORY ANALYSIS

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-DS2-202305		
Lab Sample ID	40262368001		
Filename	P230529A_11		
Injected By	BAL		
Total Amount Extracted	960 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	05/16/2023 11:15
ICAL ID	P230529A02	Received	05/20/2023 18:45
CCal Filename(s)	P230529A_01	Extracted	05/23/2023 12:15
Method Blank ID	BLANK-106282	Analyzed	05/29/2023 12:56

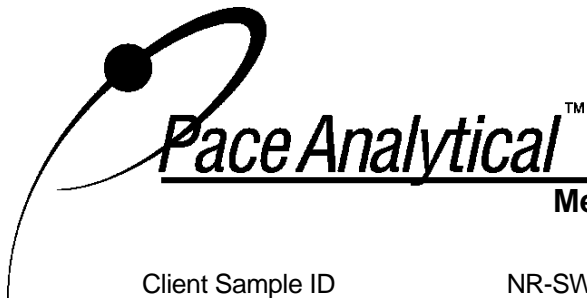
PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.171	2.95	2.0	1.42	71
13C-4-MoCB	3	12.986	3.09	2.0	1.69	84
13C-2,2'-DiCB	4	13.292	1.53	2.0	2.22	111
13C-4,4'-DiCB	15	20.415	1.58	2.0	1.85	92
13C-2,2',6-TrCB	19	17.143	1.04	2.0	2.26	113
13C-3,4,4'-TrCB	37	28.223	1.04	2.0	1.37	69
13C-2,2',6,6'-TeCB	54	20.767	0.79	2.0	1.49	74
13C-3,4,4',5-TeCB	81	35.377	0.79	2.0	1.49	75
13C-3,3',4,4'-TeCB	77	35.950	0.81	2.0	1.46	73
13C-2,2',4,6,6'-PeCB	104	26.909	1.57	2.0	1.77	89
13C-2,3,3',4,4'-PeCB	105	39.573	1.56	2.0	1.23	62
13C-2,3,4,4',5-PeCB	114	38.919	1.58	2.0	1.25	62
13C-2,3',4,4',5-PeCB	118	38.365	1.58	2.0	1.27	63
13C-2,3',4,4',5'-PeCB	123	38.030	1.53	2.0	1.23	62
13C-3,3',4,4',5-PeCB	126	42.742	1.54	2.0	1.08	54
13C-2,2',4,4',6,6'-HxCB	155	32.995	1.32	2.0	2.30	115
13C-HxCB (156/157)	156/157	45.816	1.26	4.0	2.42	61
13C-2,3',4,4',5,5'-HxCB	167	44.642	1.23	2.0	1.27	63
13C-3,3',4,4',5,5'-HxCB	169	49.119	1.23	2.0	1.41	71
13C-2,2',3,4',5,6,6'-HpCB	188	38.919	1.03	2.0	2.35	118
13C-2,3,3',4,4',5,5'-HpCB	189	51.676	1.05	2.0	1.52	76
13C-2,2',3,3',5,5',6,6'-OxCB	202	44.424	0.88	2.0	1.78	89
13C-2,3,3',4,4',5,5',6-OxCB	205	54.284	0.90	2.0	1.91	96
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.051	0.80	2.0	2.10	105
13C-2,2',3,3',4,4',5,5',6,6'-NoCB	208	51.202	0.79	2.0	2.22	111
13C-DeCB	209	57.689	0.71	2.0	2.17	108
CleanupStandards						
13C-2,4,4'-TrCB	28	23.845	1.03	2.0	1.28	64
13C-2,3,3',5,5'-PeCB	111	35.996	1.55	2.0	1.58	79
13C-2,2',3,3',5,5',6-HpCB	178	42.038	1.03	2.0	1.79	89
Recovery Standards						
13C-2,5-DiCB	9	15.773	1.55	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.856	0.79	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.196	1.54	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.568	1.26	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OxCB	194	53.810	0.90	2.0	NA	NA

Conc = Concentration
EML =Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-DS2-202305
Lab Sample ID 40262368001
Filename P230529A_11

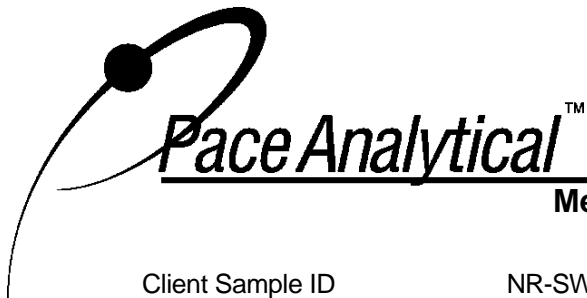
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.00581
2		---	---	ND	---	0.00529
3		---	---	ND	---	0.00458
4		---	---	ND	---	0.00783
5		---	---	ND	---	0.00191
6		---	---	ND	---	0.00977
7		---	---	ND	---	0.00969
8		---	---	ND	---	0.0128
9		---	---	ND	---	0.00256
10		---	---	ND	---	0.00304
11		---	---	ND	---	0.151
12	12/13	---	---	ND	---	0.00548
13	12/13	---	---	ND	---	0.00548
14		---	---	ND	---	0.00183
15		---	---	ND	---	0.00629
16		---	---	ND	---	0.00642
17		---	---	ND	---	0.00537
18	18/30	---	---	ND	---	0.0119
19		---	---	ND	---	0.00869
20	20/28	---	---	ND	---	0.0190
21	21/33	---	---	ND	---	0.0137
22		---	---	ND	---	0.00789
23		---	---	ND	---	0.00165
24		---	---	ND	---	0.00199
25		---	---	ND	---	0.00298
26	26/29	---	---	ND	---	0.00477
27		---	---	ND	---	0.00210
28	20/28	---	---	ND	---	0.0190
29	26/29	---	---	ND	---	0.00477
30	18/30	---	---	ND	---	0.0119
31		---	---	ND	---	0.0184
32		---	---	ND	---	0.00762
33	21/33	---	---	ND	---	0.0137
34		---	---	ND	---	0.00169
35		---	---	ND	---	0.00333
36		---	---	ND	---	0.00210
37		---	---	ND	---	0.00440
38		---	---	ND	---	0.00155
39		---	---	ND	---	0.00171
40	40/41/71	---	---	ND	---	0.00846
41	40/41/71	---	---	ND	---	0.00846
42		---	---	ND	---	0.00458
43	43/73	---	---	ND	---	0.00408
44	44/47/65	---	---	ND	---	0.0195
45	45/51	---	---	ND	---	0.00600
46		---	---	ND	---	0.00237
47	44/47/65	---	---	ND	---	0.0195
48		---	---	ND	---	0.00304

Conc = Concentration
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-DS2-202305
Lab Sample ID 40262368001
Filename P230529A_11

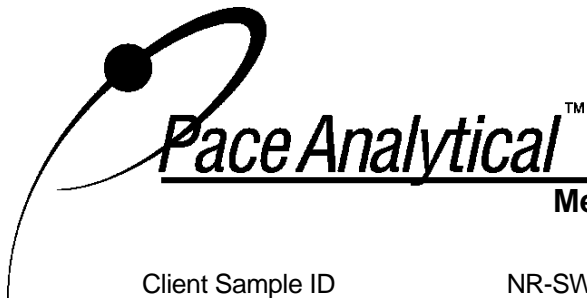
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	---	---	ND	---	0.00704
50	50/53	---	---	ND	---	0.00396
51	45/51	---	---	ND	---	0.00600
52		---	---	ND	---	0.0173
53	50/53	---	---	ND	---	0.00396
54		---	---	ND	---	0.00168
55		---	---	ND	---	0.00225
56		---	---	ND	---	0.0106
57		---	---	ND	---	0.00157
58		---	---	ND	---	0.00199
59	59/62/75	---	---	ND	---	0.00433
60		---	---	ND	---	0.00358
61	61/70/74/76	---	---	ND	---	0.0335
62	59/62/75	---	---	ND	---	0.00433
63		---	---	ND	---	0.00182
64		---	---	ND	---	0.00585
65	44/47/65	---	---	ND	---	0.0195
66		---	---	ND	---	0.0229
67		---	---	ND	---	0.00235
68		---	---	ND	---	0.00262
69	49/69	---	---	ND	---	0.00704
70	61/70/74/76	---	---	ND	---	0.0335
71	40/41/71	---	---	ND	---	0.00846
72		---	---	ND	---	0.00185
73	43/73	---	---	ND	---	0.00408
74	61/70/74/76	---	---	ND	---	0.0335
75	59/62/75	---	---	ND	---	0.00433
76	61/70/74/76	---	---	ND	---	0.0335
77		---	---	ND	---	0.00277
78		---	---	ND	---	0.00242
79		---	---	ND	---	0.00244
80		---	---	ND	---	0.00223
81		---	---	ND	---	0.00186
82		---	---	ND	---	0.00269
83		---	---	ND	---	0.00250
84		---	---	ND	---	0.0139
85	85/116/117	---	---	ND	---	0.00544
86	86/87/97/108/119/125	---	---	ND	---	0.0159
87	86/87/97/108/119/125	---	---	ND	---	0.0159
88	88/91	---	---	ND	---	0.00517
89		---	---	ND	---	0.00327
90	90/101/113	---	---	ND	---	0.0125
91	88/91	---	---	ND	---	0.00517
92		---	---	ND	---	0.00410
93	93/98/100/102	---	---	ND	---	0.00592
94		---	---	ND	---	0.00198
95		---	---	ND	---	0.00910
96		---	---	ND	---	0.00329

Conc = Concentration
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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-DS2-202305
Lab Sample ID 40262368001
Filename P230529A_11

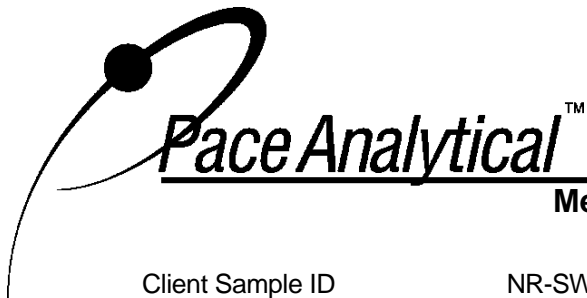
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	---	---	ND	---	0.0159
98	93/98/100/102	---	---	ND	---	0.00592
99		---	---	ND	---	0.00619
100	93/98/100/102	---	---	ND	---	0.00592
101	90/101/113	---	---	ND	---	0.0125
102	93/98/100/102	---	---	ND	---	0.00592
103		---	---	ND	---	0.00205
104		---	---	ND	---	0.00160
105		---	---	ND	---	0.00594
106		---	---	ND	---	0.00186
107	107/124	---	---	ND	---	0.00275
108	86/87/97/108/119/125	---	---	ND	---	0.0159
109		---	---	ND	---	0.00208
110	110/115	---	---	ND	---	0.0135
111		---	---	ND	---	0.00215
112		---	---	ND	---	0.00185
113	90/101/113	---	---	ND	---	0.0125
114		---	---	ND	---	0.00240
115	110/115	---	---	ND	---	0.0135
116	85/116/117	---	---	ND	---	0.00544
117	85/116/117	---	---	ND	---	0.00544
118		---	---	ND	---	0.00937
119	86/87/97/108/119/125	---	---	ND	---	0.0159
120		---	---	ND	---	0.00178
121		---	---	ND	---	0.00136
122		---	---	ND	---	0.00204
123		---	---	ND	---	0.00231
124	107/124	---	---	ND	---	0.00275
125	86/87/97/108/119/125	---	---	ND	---	0.0159
126		---	---	ND	---	0.00233
127		---	---	ND	---	0.00140
128	128/166	---	---	ND	---	0.00456
129	129/138/163	---	---	ND	---	0.0115
130		---	---	ND	---	0.00229
131		---	---	ND	---	0.00296
132		---	---	ND	---	0.00431
133		---	---	ND	---	0.00279
134	134/143	---	---	ND	---	0.00419
135	135/151	---	---	ND	---	0.00544
136		---	---	ND	---	0.00300
137		---	---	ND	---	0.00269
138	129/138/163	---	---	ND	---	0.0115
139	139/140	---	---	ND	---	0.00460
140	139/140	---	---	ND	---	0.00460
141		---	---	ND	---	0.00258
142		---	---	ND	---	0.00202
143	134/143	---	---	ND	---	0.00419
144		---	---	ND	---	0.00219

Conc = Concentration
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A = Limit of Detection based on signal to noise
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REPORT OF LABORATORY ANALYSIS

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-DS2-202305
Lab Sample ID 40262368001
Filename P230529A_11

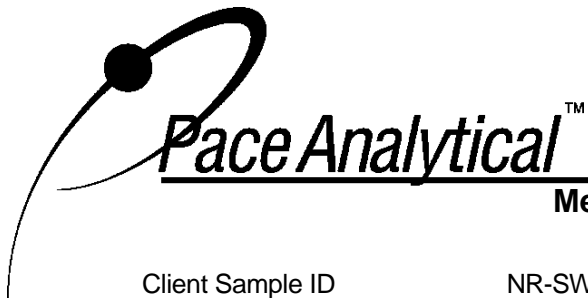
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
145		---	---	ND	---	0.00210
146		---	---	ND	---	0.00267
147	147/149	---	---	ND	---	0.00941
148		---	---	ND	---	0.00246
149	147/149	---	---	ND	---	0.00941
150		---	---	ND	---	0.00136
151	135/151	---	---	ND	---	0.00544
152		---	---	ND	---	0.00223
153	153/168	---	---	ND	---	0.00808
154		---	---	ND	---	0.00184
155		---	---	ND	---	0.00161
156	156/157	---	---	ND	---	0.00467
157	156/157	---	---	ND	---	0.00467
158		---	---	ND	---	0.00271
159		---	---	ND	---	0.00294
160		---	---	ND	---	0.00271
161		---	---	ND	---	0.00195
162		---	---	ND	---	0.00244
163	129/138/163	---	---	ND	---	0.0115
164		---	---	ND	---	0.00254
165		---	---	ND	---	0.00217
166	128/166	---	---	ND	---	0.00456
167		---	---	ND	---	0.00225
168	153/168	---	---	ND	---	0.00808
169		---	---	ND	---	0.00168
170		---	---	ND	---	0.00521
171	171/173	---	---	ND	---	0.00637
172		---	---	ND	---	0.0148
173	171/173	---	---	ND	---	0.00637
174		---	---	ND	---	0.00335
175		---	---	ND	---	0.00159
176		---	---	ND	---	0.00235
177		---	---	ND	---	0.00352
178		---	---	ND	---	0.00237
179		---	---	ND	---	0.00254
180	180/193	---	---	ND	---	0.00602
181		---	---	ND	---	0.00287
182		---	---	ND	---	0.00271
183	183/185	---	---	ND	---	0.00596
184		---	---	ND	---	0.00219
185	183/185	---	---	ND	---	0.00596
186		---	---	ND	---	0.00165
187		---	---	ND	---	0.00344
188		---	---	ND	---	0.00260
189		---	---	ND	---	0.00227
190		---	---	ND	---	0.00267
191		---	---	ND	---	0.00229
192		---	---	ND	---	0.00260

Conc = Concentration
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NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-DS2-202305
Lab Sample ID 40262368001
Filename P230529A_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	---	---	ND	---	0.00602
194		---	---	ND	---	0.00197
195		---	---	ND	---	0.00181
196		---	---	ND	---	0.00183
197	197/200	---	---	ND	---	0.00496
198	198/199	---	---	ND	---	0.00298
199	198/199	---	---	ND	---	0.00298
200	197/200	---	---	ND	---	0.00496
201		---	---	ND	---	0.00152
202		---	---	ND	---	0.00244
203		---	---	ND	---	0.00191
204		---	---	ND	---	0.00177
205		---	---	ND	---	0.00208
206		---	---	ND	---	0.00404
207		---	---	ND	---	0.00242
208		---	---	ND	---	0.00235
209		---	---	ND	---	0.0181

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-DS2-202305
Lab Sample ID 40262368001
Filename P230529A_11

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	ND

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-DS2-202305	Matrix	Water
Lab Sample ID	40262368001	Dilution	NA
Filename	P230706A_10	Collected	05/16/2023 11:15
Injected By	CVS	Received	05/20/2023 18:45
Total Amount Extracted	960 mL	Extracted	05/23/2023 12:15
% Moisture	NA	Analyzed	07/06/2023 18:05
Dry Weight Extracted	NA		
ICAL ID	P230706A02		
CCal Filename(s)	P230706A_01		
Method Blank ID	BLANK-106282		

PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.623	3.15	2.0	1.21	61
13C-4-MoCB	3	13.257	3.12	2.0	1.58	79
13C-2,2'-DiCB	4	13.552	1.54	2.0	1.54	77
13C-4,4'-DiCB	15	20.403	1.56	2.0	1.75	88
13C-2,2',6-TrCB	19	17.231	1.07	2.0	1.74	87
13C-3,4,4'-TrCB	37	28.111	1.05	2.0	1.98	99
13C-2,2',6,6'-TeCB	54	20.748	0.80	2.0	1.32	66
13C-3,4,4',5-TeCB	81	35.264	0.80	2.0	2.08	104
13C-3,3',4,4'-TeCB	77	35.836	0.78	2.0	2.04	102
13C-2,2',4,6,6'-PeCB	104	26.796	1.56	2.0	1.55	78
13C-2,3,3',4,4'-PeCB	105	39.443	1.58	2.0	1.92	96
13C-2,3,4,4',5-PeCB	114	38.789	1.58	2.0	1.88	94
13C-2,3',4,4',5-PeCB	118	38.236	1.59	2.0	1.88	94
13C-2,3',4,4',5'-PeCB	123	37.901	1.61	2.0	1.95	97
13C-3,3',4,4',5-PeCB	126	42.629	1.60	2.0	1.89	94
13C-2,2',4,4',6,6'-HxCB	155	32.851	1.24	2.0	1.72	86
13C-HxCB (156/157)	156/157	45.703	1.27	4.0	3.77	94
13C-2,3',4,4',5,5'-HxCB	167	44.529	1.27	2.0	1.98	99
13C-3,3',4,4',5,5'-HxCB	169	49.006	1.29	2.0	1.87	94
13C-2,2',3,4',5,6,6'-HpCB	188	38.789	1.03	2.0	1.94	97
13C-2,3,3',4,4',5,5'-HpCB	189	51.548	1.06	2.0	2.25	113
13C-2,2',3,3',5,5',6,6'-OxCB	202	44.278	0.91	2.0	1.91	96
13C-2,3,3',4,4',5,5',6-OxCB	205	54.156	0.90	2.0	1.92	96
13C-2,2',3,3',4,4',5,5',6-NoCB	206	55.901	0.80	2.0	1.76	88
13C-2,2',3,3',4,4',5,5',6,6'-NoCB	208	51.074	0.80	2.0	1.97	99
13C-DeCB	209	57.540	0.69	2.0	1.69	85
CleanupStandards						
13C-2,4,4'-TrCB	28	23.780	1.04	2.0	1.68	84
13C-2,3,3',5,5'-PeCB	111	35.882	1.62	2.0	1.51	76
13C-2,2',3,3',5,5',6-HpCB	178	41.891	1.06	2.0	1.46	73
Recovery Standards						
13C-2,5-DiCB	9	15.905	1.60	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.760	0.79	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.067	1.61	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.439	1.28	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OxCB	194	53.681	0.90	2.0	NA	NA

Conc = Concentration
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Method 1668C Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-DS2-202305
Lab Sample ID 40262368001
Filename P230706A_10

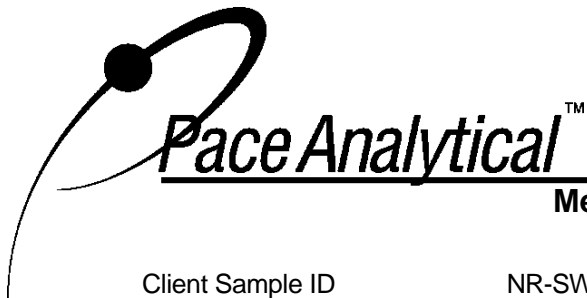
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.00581
2		---	---	ND	---	0.00529
3		---	---	ND	---	0.00458
4		---	---	ND	---	0.00783
5		---	---	ND	---	0.00191
6		---	---	ND	---	0.00977
7		---	---	ND	---	0.00969
8		---	---	ND	---	0.0128
9		---	---	ND	---	0.00256
10		---	---	ND	---	0.00304
11		---	---	ND	---	0.151
12	12/13	---	---	ND	---	0.00548
13	12/13	---	---	ND	---	0.00548
14		---	---	ND	---	0.00183
15		---	---	ND	---	0.00629
16		---	---	ND	---	0.00642
17		---	---	ND	---	0.00537
18	18/30	---	---	ND	---	0.0119
19		---	---	ND	---	0.00869
20	20/28	---	---	ND	---	0.0190
21	21/33	---	---	ND	---	0.0137
22		---	---	ND	---	0.00789
23		---	---	ND	---	0.00165
24		---	---	ND	---	0.00199
25		---	---	ND	---	0.00298
26	26/29	---	---	ND	---	0.00477
27		---	---	ND	---	0.00210
28	20/28	---	---	ND	---	0.0190
29	26/29	---	---	ND	---	0.00477
30	18/30	---	---	ND	---	0.0119
31		---	---	ND	---	0.0184
32		---	---	ND	---	0.00762
33	21/33	---	---	ND	---	0.0137
34		---	---	ND	---	0.00169
35		---	---	ND	---	0.00333
36		---	---	ND	---	0.00210
37		---	---	ND	---	0.00440
38		---	---	ND	---	0.00155
39		---	---	ND	---	0.00171
40	40/41/71	---	---	ND	---	0.00846
41	40/41/71	---	---	ND	---	0.00846
42		---	---	ND	---	0.00458
43	43/73	---	---	ND	---	0.00408
44	44/47/65	---	---	ND	---	0.0195
45	45/51	---	---	ND	---	0.00600
46		---	---	ND	---	0.00237
47	44/47/65	---	---	ND	---	0.0195
48		---	---	ND	---	0.00304

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-DS2-202305
Lab Sample ID 40262368001
Filename P230706A_10

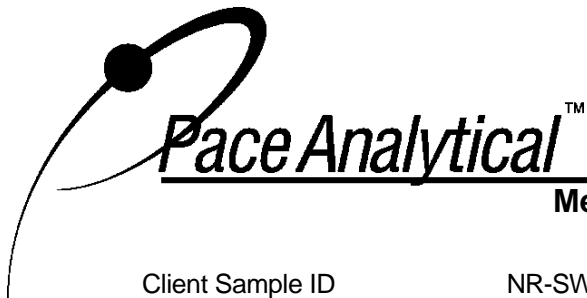
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	---	---	ND	---	0.00704
50	50/53	---	---	ND	---	0.00396
51	45/51	---	---	ND	---	0.00600
52		---	---	ND	---	0.0173
53	50/53	---	---	ND	---	0.00396
54		---	---	ND	---	0.00168
55		---	---	ND	---	0.00225
56		---	---	ND	---	0.0106
57		---	---	ND	---	0.00157
58		---	---	ND	---	0.00199
59	59/62/75	---	---	ND	---	0.00433
60		---	---	ND	---	0.00358
61	61/70/74/76	---	---	ND	---	0.0335
62	59/62/75	---	---	ND	---	0.00433
63		---	---	ND	---	0.00182
64		---	---	ND	---	0.00585
65	44/47/65	---	---	ND	---	0.0195
66		---	---	ND	---	0.0229
67		---	---	ND	---	0.00235
68		---	---	ND	---	0.00262
69	49/69	---	---	ND	---	0.00704
70	61/70/74/76	---	---	ND	---	0.0335
71	40/41/71	---	---	ND	---	0.00846
72		---	---	ND	---	0.00185
73	43/73	---	---	ND	---	0.00408
74	61/70/74/76	---	---	ND	---	0.0335
75	59/62/75	---	---	ND	---	0.00433
76	61/70/74/76	---	---	ND	---	0.0335
77		---	---	ND	---	0.00277
78		---	---	ND	---	0.00242
79		---	---	ND	---	0.00244
80		---	---	ND	---	0.00223
81		---	---	ND	---	0.00186
82		---	---	ND	---	0.00269
83		---	---	ND	---	0.00250
84		---	---	ND	---	0.0139
85	85/116/117	---	---	ND	---	0.00544
86	86/87/97/108/119/125	---	---	ND	---	0.0159
87	86/87/97/108/119/125	---	---	ND	---	0.0159
88	88/91	---	---	ND	---	0.00517
89		---	---	ND	---	0.00327
90	90/101/113	---	---	ND	---	0.0125
91	88/91	---	---	ND	---	0.00517
92		---	---	ND	---	0.00410
93	93/98/100/102	---	---	ND	---	0.00592
94		---	---	ND	---	0.00198
95		---	---	ND	---	0.00910
96		---	---	ND	---	0.00329

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-DS2-202305
Lab Sample ID 40262368001
Filename P230706A_10

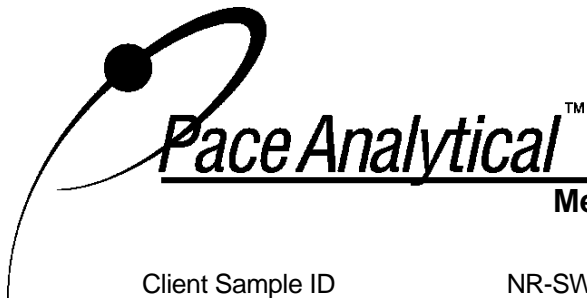
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	---	---	ND	---	0.0159
98	93/98/100/102	---	---	ND	---	0.00592
99		---	---	ND	---	0.00619
100	93/98/100/102	---	---	ND	---	0.00592
101	90/101/113	---	---	ND	---	0.0125
102	93/98/100/102	---	---	ND	---	0.00592
103		---	---	ND	---	0.00205
104		---	---	ND	---	0.00160
105		---	---	ND	---	0.00594
106		---	---	ND	---	0.00186
107	107/124	---	---	ND	---	0.00275
108	86/87/97/108/119/125	---	---	ND	---	0.0159
109		---	---	ND	---	0.00208
110	110/115	---	---	ND	---	0.0135
111		---	---	ND	---	0.00215
112		---	---	ND	---	0.00185
113	90/101/113	---	---	ND	---	0.0125
114		---	---	ND	---	0.00240
115	110/115	---	---	ND	---	0.0135
116	85/116/117	---	---	ND	---	0.00544
117	85/116/117	---	---	ND	---	0.00544
118		---	---	ND	---	0.00937
119	86/87/97/108/119/125	---	---	ND	---	0.0159
120		---	---	ND	---	0.00178
121		---	---	ND	---	0.00136
122		---	---	ND	---	0.00204
123		---	---	ND	---	0.00231
124	107/124	---	---	ND	---	0.00275
125	86/87/97/108/119/125	---	---	ND	---	0.0159
126		---	---	ND	---	0.00233
127		---	---	ND	---	0.00140
128	128/166	---	---	ND	---	0.00456
129	129/138/163	---	---	ND	---	0.0115
130		---	---	ND	---	0.00229
131		---	---	ND	---	0.00296
132		---	---	ND	---	0.00431
133		---	---	ND	---	0.00279
134	134/143	---	---	ND	---	0.00419
135	135/151	---	---	ND	---	0.00544
136		---	---	ND	---	0.00300
137		---	---	ND	---	0.00269
138	129/138/163	---	---	ND	---	0.0115
139	139/140	---	---	ND	---	0.00460
140	139/140	---	---	ND	---	0.00460
141		---	---	ND	---	0.00258
142		---	---	ND	---	0.00202
143	134/143	---	---	ND	---	0.00419
144		---	---	ND	---	0.00219

Conc = Concentration
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-DS2-202305
Lab Sample ID 40262368001
Filename P230706A_10

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
145		---	---	ND	---	0.00210
146		---	---	ND	---	0.00267
147	147/149	---	---	ND	---	0.00941
148		---	---	ND	---	0.00246
149	147/149	---	---	ND	---	0.00941
150		---	---	ND	---	0.00136
151	135/151	---	---	ND	---	0.00544
152		---	---	ND	---	0.00223
153	153/168	---	---	ND	---	0.00808
154		---	---	ND	---	0.00184
155		---	---	ND	---	0.00161
156	156/157	---	---	ND	---	0.00467
157	156/157	---	---	ND	---	0.00467
158		---	---	ND	---	0.00271
159		---	---	ND	---	0.00294
160		---	---	ND	---	0.00271
161		---	---	ND	---	0.00195
162		---	---	ND	---	0.00244
163	129/138/163	---	---	ND	---	0.0115
164		---	---	ND	---	0.00254
165		---	---	ND	---	0.00217
166	128/166	---	---	ND	---	0.00456
167		---	---	ND	---	0.00225
168	153/168	---	---	ND	---	0.00808
169		---	---	ND	---	0.00168
170		---	---	ND	---	0.00521
171	171/173	---	---	ND	---	0.00637
172		---	---	ND	---	0.0148
173	171/173	---	---	ND	---	0.00637
174		---	---	ND	---	0.00335
175		---	---	ND	---	0.00159
176		---	---	ND	---	0.00235
177		---	---	ND	---	0.00352
178		---	---	ND	---	0.00237
179		---	---	ND	---	0.00254
180	180/193	---	---	ND	---	0.00602
181		---	---	ND	---	0.00287
182		---	---	ND	---	0.00271
183	183/185	---	---	ND	---	0.00596
184		---	---	ND	---	0.00219
185	183/185	---	---	ND	---	0.00596
186		---	---	ND	---	0.00165
187		---	---	ND	---	0.00344
188		---	---	ND	---	0.00260
189		---	---	ND	---	0.00227
190		---	---	ND	---	0.00267
191		---	---	ND	---	0.00229
192		---	---	ND	---	0.00260

Conc = Concentration
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-DS2-202305
Lab Sample ID 40262368001
Filename P230706A_10

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	---	---	ND	---	0.00602
194		---	---	ND	---	0.00197
195		---	---	ND	---	0.00181
196		---	---	ND	---	0.00183
197	197/200	---	---	ND	---	0.00496
198	198/199	---	---	ND	---	0.00298
199	198/199	---	---	ND	---	0.00298
200	197/200	---	---	ND	---	0.00496
201		---	---	ND	---	0.00152
202		---	---	ND	---	0.00244
203		---	---	ND	---	0.00191
204		---	---	ND	---	0.00177
205		---	---	ND	---	0.00208
206		---	---	ND	---	0.00404
207		---	---	ND	---	0.00242
208		---	---	ND	---	0.00235
209		---	---	ND	---	0.0181

Informational Only

Conc = Concentration
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

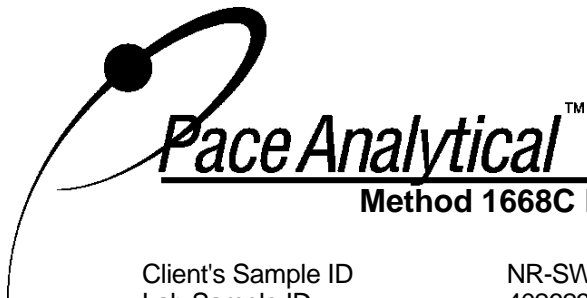
Client Sample ID NR-SW-DS2-202305
Lab Sample ID 40262368001
Filename P230706A_10

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	ND

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-DUP1-202305		
Lab Sample ID	40262368002		
Filename	P230529A_12		
Injected By	BAL		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	05/16/2023
ICAL ID	P230529A02	Received	05/20/2023 18:45
CCal Filename(s)	P230529A_01	Extracted	05/23/2023 12:15
Method Blank ID	BLANK-106282	Analyzed	05/29/2023 13:59

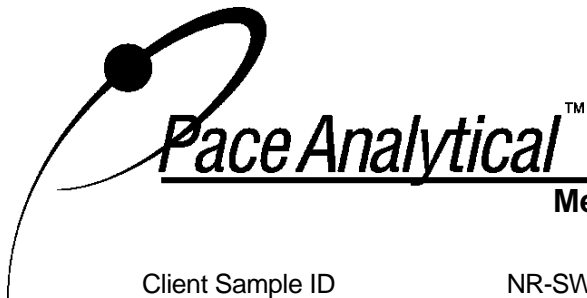
PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.159	2.95	2.0	1.44	72
13C-4-MoCB	3	12.975	3.04	2.0	1.62	81
13C-2,2'-DiCB	4	13.292	1.56	2.0	2.22	111
13C-4,4'-DiCB	15	20.404	1.55	2.0	1.78	89
13C-2,2',6-TrCB	19	17.121	1.02	2.0	2.31	115
13C-3,4,4'-TrCB	37	28.208	1.04	2.0	1.30	65
13C-2,2',6,6'-TeCB	54	20.751	0.77	2.0	1.50	75
13C-3,4,4',5-TeCB	81	35.362	0.76	2.0	1.38	69
13C-3,3',4,4'-TeCB	77	35.950	0.79	2.0	1.33	67
13C-2,2',4,6,6'-PeCB	104	26.908	1.73	2.0	1.72	86
13C-2,3,3',4,4'-PeCB	105	39.573	1.61	2.0	1.06	53
13C-2,3,4,4',5-PeCB	114	38.918	1.62	2.0	1.06	53
13C-2,3',4,4',5-PeCB	118	38.365	1.59	2.0	1.09	55
13C-2,3',4,4',5'-PeCB	123	38.013	1.53	2.0	1.09	54
13C-3,3',4,4',5-PeCB	126	42.742	1.55	2.0	0.936	47
13C-2,2',4,4',6,6'-HxCB	155	32.995	1.24	2.0	2.27	113
13C-HxCB (156/157)	156/157	45.816	1.27	4.0	2.19	55
13C-2,3',4,4',5,5'-HxCB	167	44.642	1.28	2.0	1.14	57
13C-3,3',4,4',5,5'-HxCB	169	49.103	1.27	2.0	1.30	65
13C-2,2',3,4',5,6,6'-HpCB	188	38.918	1.05	2.0	2.21	111
13C-2,3,3',4,4',5,5'-HpCB	189	51.676	1.05	2.0	1.46	73
13C-2,2',3,3',5,5',6,6'-OcCB	202	44.407	0.91	2.0	1.73	87
13C-2,3,3',4,4',5,5',6-OcCB	205	54.284	0.89	2.0	1.79	89
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.051	0.81	2.0	1.99	99
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.202	0.77	2.0	2.14	107
13C-DeCB	209	57.690	0.70	2.0	2.30	115
Cleanup Standards						
13C-2,4,4'-TrCB	28	23.845	1.04	2.0	1.29	65
13C-2,3,3',5,5'-PeCB	111	35.996	1.55	2.0	1.53	76
13C-2,2',3,3',5,5',6-HpCB	178	42.021	1.04	2.0	1.82	91
Recovery Standards						
13C-2,5-DiCB	9	15.762	1.56	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.856	0.76	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.196	1.55	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.568	1.24	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	53.810	0.90	2.0	NA	NA

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 EML = Method Specified Reporting Limit (1668C)
 EMPC = Estimated Maximum Possible Concentration
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 R = Recovery outside of Method 1668C control limits
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REPORT OF LABORATORY ANALYSIS

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-DUP1-202305
Lab Sample ID 40262368002
Filename P230529A_12

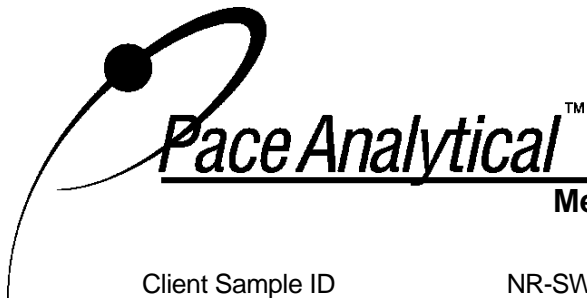
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		10.182	2.71	0.0290 J	---	0.00535
2		---	---	ND	---	0.00487
3		---	---	ND	---	0.00422
4		13.314	1.48	0.148	---	0.00720
5		---	---	ND	---	0.00176
6		16.270	1.51	0.0717	---	0.00899
7		15.983	1.57	0.0139 J	---	0.00891
8		16.812	1.33	0.0239 J	---	0.0117
9		15.784	1.44	0.0134 J	---	0.00236
10		---	---	ND	---	0.00280
11		---	---	ND	---	0.139
12	12/13	---	---	ND	---	0.00504
13	12/13	---	---	ND	---	0.00504
14		---	---	ND	---	0.00168
15		20.437	1.33	0.0150 J	---	0.00579
16		20.371	1.02	0.0113 J	---	0.00590
17		19.851	1.05	0.154	---	0.00494
18	18/30	19.365	1.05	0.0975	---	0.0109
19		17.143	0.90	0.0925	---	0.00799
20	20/28	23.876	0.98	0.145 J	---	0.0174
21	21/33	24.123	0.91	0.0496 J	---	0.0126
22		24.556	0.96	0.0114 J	---	0.00726
23		---	---	ND	---	0.00152
24		---	---	ND	---	0.00183
25		23.180	0.95	0.140	---	0.00274
26	26/29	22.917	1.10	0.260	---	0.00439
27		20.094	1.10	0.0223 J	---	0.00194
28	20/28	23.876	0.98	(0.145) J	---	0.0174
29	26/29	22.917	1.10	(0.260)	---	0.00439
30	18/30	19.365	1.05	(0.0975)	---	0.0109
31		23.520	1.04	0.0742 J	---	0.0169
32		20.983	1.01	0.0626	---	0.00701
33	21/33	24.123	0.91	(0.0496) J	---	0.0126
34		22.437	0.88	0.0114 J	---	0.00156
35		---	---	ND	---	0.00307
36		---	---	ND	---	0.00194
37		28.223	1.10	0.0164 J	---	0.00404
38		---	---	ND	---	0.00142
39		---	---	ND	---	0.00158
40	40/41/71	28.068	0.76	0.306	---	0.00778
41	40/41/71	28.068	0.76	(0.306)	---	0.00778
42		27.527	0.76	0.206	---	0.00422
43	43/73	26.042	0.83	0.0337 J	---	0.00376
44	44/47/65	27.032	0.75	0.917	---	0.0179
45	45/51	24.061	0.77	0.152	---	0.00552
46		24.309	0.71	0.0796	---	0.00218
47	44/47/65	27.032	0.75	(0.917)	---	0.0179
48		26.753	0.82	0.00975 J	---	0.00280

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-DUP1-202305
Lab Sample ID 40262368002
Filename P230529A_12

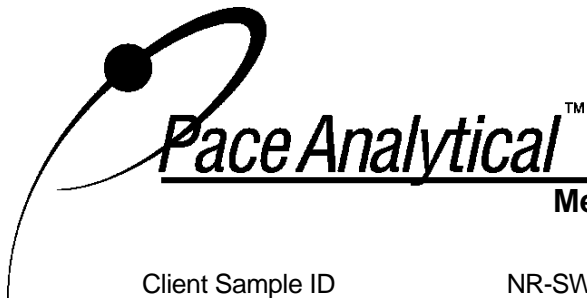
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	26.413	0.78	1.34	---	0.00648
50	50/53	23.211	0.79	0.288	---	0.00364
51	45/51	24.061	0.77	(0.152)	---	0.00552
52		25.872	0.76	1.88	---	0.0159
53	50/53	23.211	0.79	(0.288)	---	0.00364
54		20.766	0.74	0.0146 J	---	0.00154
55		---	---	ND	---	0.00207
56		32.082	0.69	0.0568	---	0.00971
57		29.962	0.85	0.0356 J	---	0.00144
58		30.210	0.67	0.00949 J	---	0.00183
59	59/62/75	27.388	0.77	0.0494 J	---	0.00399
60		32.329	0.88	0.00913 J	---	0.00330
61	61/70/74/76	31.030	0.76	0.411	---	0.0308
62	59/62/75	27.388	0.77	(0.0494) J	---	0.00399
63		30.674	0.66	0.0290 J	---	0.00167
64		28.300	0.78	0.150	---	0.00538
65	44/47/65	27.032	0.75	(0.917)	---	0.0179
66		31.386	0.77	0.330	---	0.0211
67		30.411	0.77	0.0248 J	---	0.00217
68		29.514	0.73	0.0329 J	---	0.00241
69	49/69	26.413	0.78	(1.34)	---	0.00648
70	61/70/74/76	31.030	0.76	(0.411)	---	0.0308
71	40/41/71	28.068	0.76	(0.306)	---	0.00778
72		29.204	0.71	0.0473	---	0.00170
73	43/73	26.042	0.83	(0.0337) J	---	0.00376
74	61/70/74/76	31.030	0.76	(0.411)	---	0.0308
75	59/62/75	27.388	0.77	(0.0494) J	---	0.00399
76	61/70/74/76	31.030	0.76	(0.411)	---	0.0308
77		35.965	0.77	0.0257 J	---	0.00255
78		---	---	ND	---	0.00222
79		34.325	0.65	0.00885 J	---	0.00224
80		---	---	ND	---	0.00205
81		---	---	ND	---	0.00171
82		35.594	1.56	0.110	---	0.00247
83		33.706	1.56	0.144	---	0.00230
84		31.246	1.46	0.489	---	0.0128
85	85/116/117	35.114	1.65	0.319	---	0.00500
86	86/87/97/108/119/125	34.356	1.59	1.03	---	0.0146
87	86/87/97/108/119/125	34.356	1.59	(1.03)	---	0.0146
88	88/91	31.030	1.56	0.382	---	0.00475
89		31.772	1.18	---	IJ	0.0103
90	90/101/113	33.227	1.54	1.89	---	0.0115
91	88/91	31.030	1.56	(0.382)	---	0.00475
92		32.608	1.54	0.679	---	0.00377
93	93/98/100/102	30.488	1.46	0.124 J	---	0.00544
94		29.637	1.40	0.0353 J	---	0.00182
95		30.101	1.57	1.61	---	0.00837
96		27.295	1.51	0.0188 J	---	0.00303

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-DUP1-202305
Lab Sample ID 40262368002
Filename P230529A_12

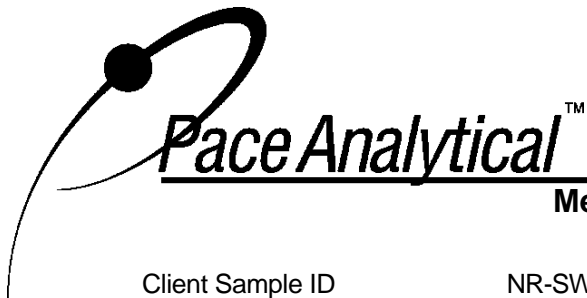
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	34.356	1.59	(1.03)	---	0.0146
98	93/98/100/102	30.488	1.46	(0.124) J	---	0.00544
99		33.846	1.56	0.959	---	0.00569
100	93/98/100/102	30.488	1.46	(0.124) J	---	0.00544
101	90/101/113	33.227	1.54	(1.89)	---	0.0115
102	93/98/100/102	30.488	1.46	(0.124) J	---	0.00544
103		29.421	1.47	0.0423	---	0.00189
104		---	---	ND	---	0.00147
105		39.590	1.53	0.320	---	0.00546
106		---	---	ND	---	0.00171
107	107/124	37.678	1.52	0.0369 J	---	0.00253
108	86/87/97/108/119/125	34.356	1.59	(1.03)	---	0.0146
109		37.912	1.52	0.112	---	0.00192
110	110/115	35.269	1.53	2.64	---	0.0125
111		36.027	1.67	0.00489 J	---	0.00197
112		---	---	ND	---	0.00170
113	90/101/113	33.227	1.54	(1.89)	---	0.0115
114		38.935	1.77	0.00872 J	---	0.00220
115	110/115	35.269	1.53	(2.64)	---	0.0125
116	85/116/117	35.114	1.65	(0.319)	---	0.00500
117	85/116/117	35.114	1.65	(0.319)	---	0.00500
118		38.382	1.46	1.04	---	0.00862
119	86/87/97/108/119/125	34.356	1.59	(1.03)	---	0.0146
120		36.507	1.15	---	0.0148	0.00164
121		---	---	ND	---	0.00125
122		38.734	1.63	0.00952 J	---	0.00187
123		38.063	1.66	0.0166 J	---	0.00213
124	107/124	37.678	1.52	(0.0369) J	---	0.00253
125	86/87/97/108/119/125	34.356	1.59	(1.03)	---	0.0146
126		42.759	1.32	0.00344 J	---	0.00215
127		---	---	ND	---	0.00129
128	128/166	42.876	1.23	0.255	---	0.00420
129	129/138/163	41.602	1.22	1.35	---	0.0105
130		40.914	1.21	0.114	---	0.00211
131		38.047	1.33	0.0222 J	---	0.00272
132		38.499	1.18	0.533	---	0.00397
133		39.019	1.24	0.0352 J	---	0.00257
134	134/143	37.409	1.12	0.118	---	0.00385
135	135/151	36.259	1.23	0.693	---	0.00500
136		33.722	1.20	0.247	---	0.00276
137		41.166	1.28	0.0724	---	0.00247
138	129/138/163	41.602	1.22	(1.35)	---	0.0105
139	139/140	37.812	1.07	0.0364 J	---	0.00423
140	139/140	37.812	1.07	(0.0364) J	---	0.00423
141		40.512	1.16	0.166	---	0.00238
142		---	---	ND	---	0.00186
143	134/143	37.409	1.12	(0.118)	---	0.00385
144		36.832	1.27	0.0628	---	0.00201

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-DUP1-202305
Lab Sample ID 40262368002
Filename P230529A_12

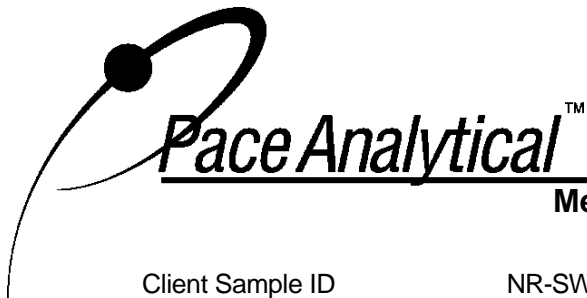
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
145		---	---	ND	---	0.00194
146		39.690	1.24	0.215	---	0.00245
147	147/149	37.208	1.22	1.16	---	0.00866
148		35.640	1.46	---	IJ 0.00561	0.00226
149	147/149	37.208	1.22	(1.16)	---	0.00866
150		33.366	1.37	0.00502	J	0.00126
151	135/151	36.259	1.23	(0.693)	---	0.00500
152		33.180	0.80	---	IJ 0.00322	0.00205
153	153/168	40.311	1.20	1.00	---	0.00743
154		36.522	1.22	0.0390	---	0.00169
155		---	---	ND	---	0.00148
156	156/157	45.816	1.29	0.171	---	0.00429
157	156/157	45.816	1.29	(0.171)	---	0.00429
158		42.004	1.20	0.123	---	0.00249
159		---	---	ND	---	0.00270
160		---	---	ND	---	0.00249
161		---	---	ND	---	0.00180
162		44.173	1.42	0.00385	J	0.00224
163	129/138/163	41.602	1.22	(1.35)	---	0.0105
164		41.266	1.13	0.0877	---	0.00234
165		39.405	1.04	---	IJ 0.00322	0.00199
166	128/166	42.876	1.23	(0.255)	---	0.00420
167		44.659	1.14	0.0598	---	0.00207
168	153/168	40.311	1.20	(1.00)	---	0.00743
169		---	---	ND	---	0.00155
170		48.533	1.09	0.122	---	0.00479
171	171/173	44.961	0.98	0.0465	J	0.00586
172		46.570	1.00	0.0216	J	0.0136
173	171/173	44.961	0.98	(0.0465)	J	0.00586
174		43.837	1.05	0.113	---	0.00308
175		42.725	1.13	0.00701	J	0.00146
176		40.193	1.03	0.0205	J	0.00217
177		44.306	0.98	0.0861	---	0.00324
178		42.038	0.99	0.0391	---	0.00218
179		39.271	1.06	0.0779	---	0.00234
180	180/193	47.258	1.06	0.188	---	0.00554
181		44.709	0.93	0.00403	J	0.00264
182		---	---	ND	---	0.00249
183	183/185	43.619	0.96	0.0754	J	0.00548
184		---	---	ND	---	0.00201
185	183/185	43.619	0.96	(0.0754)	J	0.00548
186		---	---	ND	---	0.00151
187		42.993	1.06	0.178	---	0.00316
188		---	---	ND	---	0.00240
189		51.676	1.33	---	IJ 0.00912	0.00209
190		49.086	0.94	0.0252	J	0.00245
191		47.611	1.04	0.00428	J	0.00211
192		---	---	ND	---	0.00240

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-DUP1-202305
Lab Sample ID 40262368002
Filename P230529A_12

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	47.258	1.06	(0.188)	---	0.00554
194		53.853	0.91	0.0333 J	---	0.00181
195		51.482	0.88	0.0142 J	---	0.00167
196		49.924	0.89	0.0185 J	---	0.00169
197	197/200	46.386	1.03	--- IJ	0.00676	0.00456
198	198/199	49.254	0.76	0.0502 J	---	0.00274
199	198/199	49.254	0.76	(0.0502) J	---	0.00274
200	197/200	46.386	1.03	--- IJ	(0.00676)	0.00456
201		45.397	1.16	--- IJ	0.00391	0.00139
202		44.458	0.71	--- IJ	0.00788	0.00224
203		50.109	0.84	0.0232 J	---	0.00176
204		---	---	ND	---	0.00163
205		54.284	1.07	--- IJ	0.00229	0.00192
206		56.051	0.77	0.0117 J	---	0.00372
207		---	---	ND	---	0.00222
208		51.245	0.98	--- IJ	0.00220	0.00217
209		---	---	ND	---	0.0167

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-DUP1-202305
Lab Sample ID 40262368002
Filename P230529A_12

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	0.0290 J
Total Dichloro Biphenyls	0.286 J
Total Trichloro Biphenyls	1.15 J
Total Tetrachloro Biphenyls	6.45 J
Total Pentachloro Biphenyls	12.0 J
Total Hexachloro Biphenyls	6.57 J
Total Heptachloro Biphenyls	1.01 J
Total Octachloro Biphenyls	0.139 J
Total Nonachloro Biphenyls	0.0117 J
Decachloro Biphenyls	ND
Total PCBs	27.7 J

ND = Not Detected

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-DUP1-202305	Matrix	Water
Lab Sample ID	40262368002	Dilution	NA
Filename	P230706A_11	Collected	05/16/2023
Injected By	CVS	Received	05/20/2023 18:45
Total Amount Extracted	1040 mL	Extracted	05/23/2023 12:15
% Moisture	NA	Analyzed	07/06/2023 19:08
Dry Weight Extracted	NA		
ICAL ID	P230706A02		
CCal Filename(s)	P230706A_01		
Method Blank ID	BLANK-106282		

PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.634	3.02	2.0	1.15	57
13C-4-MoCB	3	13.269	3.14	2.0	1.50	75
13C-2,2'-DiCB	4	13.563	1.52	2.0	1.46	73
13C-4,4'-DiCB	15	20.404	1.57	2.0	1.35	67
13C-2,2',6-TrCB	19	17.253	1.05	2.0	1.70	85
13C-3,4,4'-TrCB	37	28.127	1.06	2.0	1.80	90
13C-2,2',6,6'-TeCB	54	20.779	0.79	2.0	1.32	66
13C-3,4,4',5-TeCB	81	35.264	0.80	2.0	1.82	91
13C-3,3',4,4'-TeCB	77	35.852	0.80	2.0	1.82	91
13C-2,2',4,6,6'-PeCB	104	26.812	1.57	2.0	1.47	74
13C-2,3,3',4,4'-PeCB	105	39.460	1.58	2.0	1.63	82
13C-2,3,4,4',5-PeCB	114	38.806	1.63	2.0	1.61	81
13C-2,3',4,4',5-PeCB	118	38.253	1.59	2.0	1.61	81
13C-2,3',4,4',5'-PeCB	123	37.918	1.60	2.0	1.68	84
13C-3,3',4,4',5-PeCB	126	42.630	1.59	2.0	1.59	80
13C-2,2',4,4',6,6'-HxCB	155	32.867	1.27	2.0	1.62	81
13C-HxCB (156/157)	156/157	45.721	1.30	4.0	3.23	81
13C-2,3',4,4',5,5'-HxCB	167	44.547	1.27	2.0	1.70	85
13C-3,3',4,4',5,5'-HxCB	169	49.007	1.29	2.0	1.65	82
13C-2,2',3,4',5,6,6'-HpCB	188	38.790	1.04	2.0	1.84	92
13C-2,3,3',4,4',5,5'-HpCB	189	51.570	1.09	2.0	2.05	102
13C-2,2',3,3',5,5',6,6'-OcCB	202	44.295	0.89	2.0	1.79	89
13C-2,3,3',4,4',5,5',6-OcCB	205	54.179	0.90	2.0	1.78	89
13C-2,2',3,3',4,4',5,5',6-NoCB	206	55.924	0.80	2.0	1.69	84
13C-2,2',3,3',4,4',5,5',6,6'-NoCB	208	51.096	0.79	2.0	1.88	94
13C-DeCB	209	57.563	0.70	2.0	1.61	80
CleanupStandards						
13C-2,4,4'-TrCB	28	23.795	1.06	2.0	1.64	82
13C-2,3,3',5,5'-PeCB	111	35.883	1.60	2.0	1.46	73
13C-2,2',3,3',5,5',6-HpCB	178	41.909	1.03	2.0	1.45	72
Recovery Standards						
13C-2,5-DiCB	9	15.927	1.57	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.775	0.79	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.083	1.57	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.456	1.25	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	53.683	0.91	2.0	NA	NA

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-DUP1-202305
Lab Sample ID 40262368002
Filename P230706A_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		10.645	2.72	0.0349 J	---	0.00535
2		---	---	ND	---	0.00487
3		---	---	ND	---	0.00422
4		13.574	1.49	0.162	---	0.00720
5		---	---	ND	---	0.00176
6		16.413	1.59	0.0990	---	0.00899
7		16.137	1.44	0.0207 J	---	0.00891
8		16.933	1.52	0.0369 J	---	0.0117
9		15.949	1.51	0.0222 J	---	0.00236
10		13.789	1.43	0.00326 J	---	0.00280
11		---	---	ND	---	0.139
12	12/13	20.127	1.69	0.00635 J	---	0.00504
13	12/13	20.127	1.69	(0.00635) J	---	0.00504
14		---	---	ND	---	0.00168
15		20.415	1.38	0.00841 J	---	0.00579
16		20.392	1.07	0.00825 J	---	0.00590
17		19.884	1.00	0.129	---	0.00494
18	18/30	19.409	1.05	0.0832	---	0.0109
19		17.275	1.04	0.0970	---	0.00799
20	20/28	23.826	1.06	0.182 J	---	0.0174
21	21/33	24.089	1.02	0.0620 J	---	0.0126
22		24.507	1.01	0.0141 J	---	0.00726
23		---	---	ND	---	0.00152
24		---	---	ND	---	0.00183
25		23.146	1.09	0.190	---	0.00274
26	26/29	22.883	1.05	0.329	---	0.00439
27		20.116	1.03	0.0198 J	---	0.00194
28	20/28	23.826	1.06	(0.182) J	---	0.0174
29	26/29	22.883	1.05	(0.329)	---	0.00439
30	18/30	19.409	1.05	(0.0832)	---	0.0109
31		23.502	1.05	0.0922 J	---	0.0169
32		20.996	1.02	0.0787	---	0.00701
33	21/33	24.089	1.02	(0.0620) J	---	0.0126
34		22.372	1.06	0.0148 J	---	0.00156
35		---	---	ND	---	0.00307
36		---	---	ND	---	0.00194
37		28.142	1.08	0.0188 J	---	0.00404
38		---	---	ND	---	0.00142
39		---	---	ND	---	0.00158
40	40/41/71	27.972	0.80	0.279	---	0.00778
41	40/41/71	27.972	0.80	(0.279)	---	0.00778
42		27.431	0.80	0.188	---	0.00422
43	43/73	25.961	0.78	0.0351 J	---	0.00376
44	44/47/65	26.920	0.79	0.888	---	0.0179
45	45/51	24.012	0.79	0.135	---	0.00552
46		24.260	0.76	0.0672	---	0.00218
47	44/47/65	26.920	0.79	(0.888)	---	0.0179
48		26.642	0.80	0.00922 J	---	0.00280

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-DUP1-202305
Lab Sample ID 40262368002
Filename P230706A_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	26.332	0.78	1.27	---	0.00648
50	50/53	23.177	0.78	0.266	---	0.00364
51	45/51	24.012	0.79	(0.135)	---	0.00552
52		25.791	0.79	1.73	---	0.0159
53	50/53	23.177	0.78	(0.266)	---	0.00364
54		20.810	0.83	0.0147 J	---	0.00154
55		---	---	ND	---	0.00207
56		31.985	0.79	0.0648	---	0.00971
57		29.850	0.72	0.0417	---	0.00144
58		30.113	0.76	0.00992 J	---	0.00183
59	59/62/75	27.291	0.76	0.0488 J	---	0.00399
60		32.217	0.72	0.00918 J	---	0.00330
61	61/70/74/76	30.917	0.79	0.482	---	0.0308
62	59/62/75	27.291	0.76	(0.0488) J	---	0.00399
63		30.577	0.78	0.0333 J	---	0.00167
64		28.204	0.74	0.132	---	0.00538
65	44/47/65	26.920	0.79	(0.888)	---	0.0179
66		31.273	0.78	0.370	---	0.0211
67		30.299	0.81	0.0289 J	---	0.00217
68		29.417	0.81	0.0373 J	---	0.00241
69	49/69	26.332	0.78	(1.27)	---	0.00648
70	61/70/74/76	30.917	0.79	(0.482)	---	0.0308
71	40/41/71	27.972	0.80	(0.279)	---	0.00778
72		29.092	0.80	0.0559	---	0.00170
73	43/73	25.961	0.78	(0.0351) J	---	0.00376
74	61/70/74/76	30.917	0.79	(0.482)	---	0.0308
75	59/62/75	27.291	0.76	(0.0488) J	---	0.00399
76	61/70/74/76	30.917	0.79	(0.482)	---	0.0308
77		35.898	0.77	0.0292 J	---	0.00255
78		---	---	ND	---	0.00222
79		34.228	0.70	0.0107 J	---	0.00224
80		---	---	ND	---	0.00205
81		---	---	ND	---	0.00171
82		35.481	1.55	0.0864	---	0.00247
83		33.593	1.56	0.150	---	0.00230
84		31.149	1.53	0.350	---	0.0128
85	85/116/117	34.955	1.56	0.248	---	0.00500
86	86/87/97/108/119/125	34.259	1.58	0.860	---	0.0146
87	86/87/97/108/119/125	34.259	1.58	(0.860)	---	0.0146
88	88/91	30.917	1.51	0.328	---	0.00475
89		31.675	1.33	0.00968 J	---	0.00301
90	90/101/113	33.114	1.57	1.67	---	0.0115
91	88/91	30.917	1.51	(0.328)	---	0.00475
92		32.495	1.57	0.569	---	0.00377
93	93/98/100/102	30.376	1.58	0.113 J	---	0.00544
94		29.510	1.65	0.0327 J	---	0.00182
95		29.989	1.56	1.26	---	0.00837
96		27.214	1.52	0.0140 J	---	0.00303

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-DUP1-202305
Lab Sample ID 40262368002
Filename P230706A_11

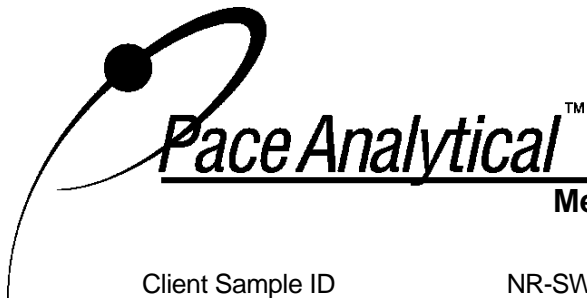
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	34.259	1.58	(0.860)	---	0.0146
98	93/98/100/102	30.376	1.58	(0.113) J	---	0.00544
99		33.733	1.58	0.788	---	0.00569
100	93/98/100/102	30.376	1.58	(0.113) J	---	0.00544
101	90/101/113	33.114	1.57	(1.67)	---	0.0115
102	93/98/100/102	30.376	1.58	(0.113) J	---	0.00544
103		29.293	1.50	0.0389	---	0.00189
104		---	---	ND	---	0.00147
105		39.477	1.53	0.383	---	0.00546
106		---	---	ND	---	0.00171
107	107/124	37.549	1.60	0.0444 J	---	0.00253
108	86/87/97/108/119/125	34.259	1.58	(0.860)	---	0.0146
109		37.800	1.60	0.127	---	0.00192
110	110/115	35.156	1.57	2.08	---	0.0125
111		35.914	1.43	0.00497 J	---	0.00197
112		---	---	ND	---	0.00170
113	90/101/113	33.114	1.57	(1.67)	---	0.0115
114		38.840	1.53	0.0129 J	---	0.00220
115	110/115	35.156	1.57	(2.08)	---	0.0125
116	85/116/117	34.955	1.56	(0.248)	---	0.00500
117	85/116/117	34.955	1.56	(0.248)	---	0.00500
118		38.270	1.59	1.28	---	0.00862
119	86/87/97/108/119/125	34.259	1.58	(0.860)	---	0.0146
120		36.409	1.69	0.0131 J	---	0.00164
121		32.093	1.71	0.00184 J	---	0.00125
122		38.622	1.40	0.0124 J	---	0.00187
123		37.934	1.64	0.0174 J	---	0.00213
124	107/124	37.549	1.60	(0.0444) J	---	0.00253
125	86/87/97/108/119/125	34.259	1.58	(0.860)	---	0.0146
126		42.664	1.54	0.00652 J	---	0.00215
127		---	---	ND	---	0.00129
128	128/166	42.781	1.26	0.258	---	0.00420
129	129/138/163	41.490	1.24	1.59	---	0.0105
130		40.819	1.17	0.117	---	0.00211
131		37.918	1.26	0.0176 J	---	0.00272
132		38.387	1.24	0.496	---	0.00397
133		38.907	1.17	0.0344 J	---	0.00257
134	134/143	37.297	1.25	0.0943	---	0.00385
135	135/151	36.130	1.24	0.417	---	0.00500
136		33.625	1.28	0.176	---	0.00276
137		41.054	1.23	0.101	---	0.00247
138	129/138/163	41.490	1.24	(1.59)	---	0.0105
139	139/140	37.700	1.31	0.0324 J	---	0.00423
140	139/140	37.700	1.31	(0.0324) J	---	0.00423
141		40.400	1.29	0.144	---	0.00238
142		---	---	ND	---	0.00186
143	134/143	37.297	1.25	(0.0943)	---	0.00385
144		36.718	1.25	0.0385	---	0.00201

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-DUP1-202305
Lab Sample ID 40262368002
Filename P230706A_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
145		---	---	ND	---	0.00194
146		39.561	1.24	0.204	---	0.00245
147	147/149	37.079	1.24	0.990	---	0.00866
148		35.512	1.16	0.00451 J	---	0.00226
149	147/149	37.079	1.24	(0.990)	---	0.00866
150		33.284	1.21	0.00371 J	---	0.00126
151	135/151	36.130	1.24	(0.417)	---	0.00500
152		33.098	1.21	0.00286 J	---	0.00205
153	153/168	40.199	1.26	0.982	---	0.00743
154		36.393	1.14	0.0236 J	---	0.00169
155		---	---	ND	---	0.00148
156	156/157	45.721	1.29	0.186	---	0.00429
157	156/157	45.721	1.29	(0.186)	---	0.00429
158		41.892	1.29	0.128	---	0.00249
159		43.742	1.43	0.00448 J	---	0.00270
160		---	---	ND	---	0.00249
161		---	---	ND	---	0.00180
162		44.061	1.10	0.00642 J	---	0.00224
163	129/138/163	41.490	1.24	(1.59)	---	0.0105
164		41.154	1.26	0.0746	---	0.00234
165		39.310	1.41	0.00245 J	---	0.00199
166	128/166	42.781	1.26	(0.258)	---	0.00420
167		44.564	1.23	0.0658	---	0.00207
168	153/168	40.199	1.26	(0.982)	---	0.00743
169		---	---	ND	---	0.00155
170		48.420	1.01	0.121	---	0.00479
171	171/173	44.832	1.05	0.0492 J	---	0.00586
172		46.475	1.08	0.0234 J	---	0.0136
173	171/173	44.832	1.05	(0.0492) J	---	0.00586
174		43.742	1.01	0.115	---	0.00308
175		42.597	1.32	---	0.00516	0.00146
176		40.081	1.00	0.0165 J	---	0.00217
177		44.195	1.06	0.0897	---	0.00324
178		41.943	0.97	0.0334 J	---	0.00218
179		39.159	1.12	0.0584	---	0.00234
180	180/193	47.146	1.06	0.211	---	0.00554
181		---	---	ND	---	0.00264
182		---	---	ND	---	0.00249
183	183/185	43.507	1.07	0.0645 J	---	0.00548
184		---	---	ND	---	0.00201
185	183/185	43.507	1.07	(0.0645) J	---	0.00548
186		---	---	ND	---	0.00151
187		42.865	1.07	0.141	---	0.00316
188		---	---	ND	---	0.00240
189		51.570	1.02	0.00742 J	---	0.00209
190		48.973	1.07	0.0267 J	---	0.00245
191		47.515	0.99	0.00478 J	---	0.00211
192		---	---	ND	---	0.00240

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
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REPORT OF LABORATORY ANALYSIS

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-DUP1-202305
Lab Sample ID 40262368002
Filename P230706A_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	47.146	1.06	(0.211)	---	0.00554
194		53.726	0.98	0.0366 J	---	0.00181
195		51.333	0.83	0.0164 J	---	0.00167
196		49.812	0.99	0.0183 J	---	0.00169
197	197/200	46.274	0.92	0.00646 J	---	0.00456
198	198/199	49.141	0.88	0.0472 J	---	0.00274
199	198/199	49.141	0.88	(0.0472) J	---	0.00274
200	197/200	46.274	0.92	(0.00646) J	---	0.00456
201		45.285	0.87	0.00520 J	---	0.00139
202		44.329	0.86	0.00889 J	---	0.00224
203		50.013	0.84	0.0233 J	---	0.00176
204		---	---	ND	---	0.00163
205		54.179	0.82	0.00234 J	---	0.00192
206		55.946	0.71	0.0127 J	---	0.00372
207		---	---	ND	---	0.00222
208		51.139	0.78	0.00225 J	---	0.00217
209		---	---	ND	---	0.0167

Informational Only

Conc = Concentration
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-DUP1-202305
Lab Sample ID 40262368002
Filename P230706A_11

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	0.0349 J
Total Dichloro Biphenyls	0.359 J
Total Trichloro Biphenyls	1.32 J
Total Tetrachloro Biphenyls	6.23 J
Total Pentachloro Biphenyls	10.5 J
Total Hexachloro Biphenyls	6.20 J
Total Heptachloro Biphenyls	0.961 J
Total Octachloro Biphenyls	0.165 J
Total Nonachloro Biphenyls	0.0149 J
Decachloro Biphenyls	ND
Total PCBs	25.8 J

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-EB-202305		
Lab Sample ID	40262368003		
Filename	P230529B_04		
Injected By	BAL		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	05/16/2023 11:30
ICAL ID	P230529B02	Received	05/20/2023 18:45
CCal Filename(s)	P230529B_01	Extracted	05/23/2023 12:15
Method Blank ID	BLANK-106282	Analyzed	05/29/2023 19:14

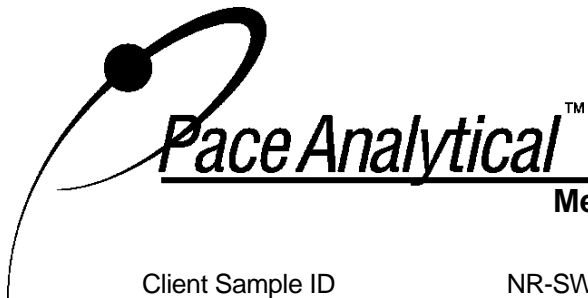
PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.148	2.98	2.0	1.47	74
13C-4-MoCB	3	12.975	3.09	2.0	1.78	89
13C-2,2'-DiCB	4	13.280	1.62	2.0	2.41	120
13C-4,4'-DiCB	15	20.415	1.57	2.0	1.87	94
13C-2,2',6-TrCB	19	17.132	1.00	2.0	2.38	119
13C-3,4,4'-TrCB	37	28.223	1.02	2.0	1.32	66
13C-2,2',6,6'-TeCB	54	20.766	0.79	2.0	1.57	78
13C-3,4,4',5-TeCB	81	35.377	0.76	2.0	1.40	70
13C-3,3',4,4'-TeCB	77	35.950	0.76	2.0	1.34	67
13C-2,2',4,6,6'-PeCB	104	26.908	1.55	2.0	1.92	96
13C-2,3,3',4,4'-PeCB	105	39.572	1.60	2.0	1.24	62
13C-2,3,4,4',5-PeCB	114	38.918	1.55	2.0	1.22	61
13C-2,3',4,4',5-PeCB	118	38.365	1.54	2.0	1.21	60
13C-2,3',4,4',5'-PeCB	123	38.030	1.57	2.0	1.22	61
13C-3,3',4,4',5-PeCB	126	42.742	1.54	2.0	1.10	55
13C-2,2',4,4',6,6'-HxCB	155	32.995	1.24	2.0	2.31	115
13C-HxCB (156/157)	156/157	45.833	1.25	4.0	2.39	60
13C-2,3',4,4',5,5'-HxCB	167	44.659	1.24	2.0	1.26	63
13C-3,3',4,4',5,5'-HxCB	169	49.119	1.30	2.0	1.35	67
13C-2,2',3,4',5,6,6'-HpCB	188	38.935	1.04	2.0	2.48	124
13C-2,3,3',4,4',5,5'-HpCB	189	51.676	1.02	2.0	1.53	77
13C-2,2',3,3',5,5',6,6'-OxCB	202	44.408	0.86	2.0	1.88	94
13C-2,3,3',4,4',5,5',6-OxCB	205	54.305	0.86	2.0	1.87	93
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.051	0.81	2.0	2.10	105
13C-2,2',3,3',4,4',5,5',6,6'-NoCB	208	51.223	0.79	2.0	2.29	114
13C-DeCB	209	57.689	0.69	2.0	2.20	110
CleanupStandards						
13C-2,4,4'-TrCB	28	23.845	1.03	2.0	1.22	61
13C-2,3,3',5,5'-PeCB	111	35.996	1.57	2.0	1.53	77
13C-2,2',3,3',5,5',6-HpCB	178	42.037	1.06	2.0	1.78	89
Recovery Standards						
13C-2,5-DiCB	9	15.762	1.54	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.856	0.74	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.211	1.55	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.585	1.23	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OxCB	194	53.810	0.87	2.0	NA	NA

Conc = Concentration
 EML =Method Specified Reporting Limit (1668C)
 EMPC = Estimated Maximum Possible Concentration
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REPORT OF LABORATORY ANALYSIS

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-EB-202305
Lab Sample ID 40262368003
Filename P230529B_04

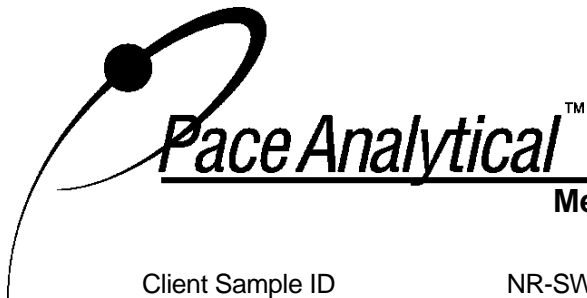
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.00537
2		---	---	ND	---	0.00489
3		---	---	ND	---	0.00423
4		---	---	ND	---	0.00724
5		---	---	ND	---	0.00176
6		---	---	ND	---	0.00903
7		---	---	ND	---	0.00895
8		---	---	ND	---	0.0118
9		---	---	ND	---	0.00237
10		---	---	ND	---	0.00281
11		---	---	ND	---	0.140
12	12/13	---	---	ND	---	0.00506
13	12/13	---	---	ND	---	0.00506
14		---	---	ND	---	0.00169
15		---	---	ND	---	0.00581
16		---	---	ND	---	0.00593
17		---	---	ND	---	0.00496
18	18/30	---	---	ND	---	0.0110
19		---	---	ND	---	0.00802
20	20/28	---	---	ND	---	0.0175
21	21/33	---	---	ND	---	0.0126
22		---	---	ND	---	0.00729
23		---	---	ND	---	0.00153
24		---	---	ND	---	0.00184
25		---	---	ND	---	0.00275
26	26/29	---	---	ND	---	0.00441
27		---	---	ND	---	0.00194
28	20/28	---	---	ND	---	0.0175
29	26/29	---	---	ND	---	0.00441
30	18/30	---	---	ND	---	0.0110
31		---	---	ND	---	0.0170
32		---	---	ND	---	0.00704
33	21/33	---	---	ND	---	0.0126
34		---	---	ND	---	0.00156
35		---	---	ND	---	0.00308
36		---	---	ND	---	0.00194
37		---	---	ND	---	0.00406
38		---	---	ND	---	0.00143
39		---	---	ND	---	0.00158
40	40/41/71	---	---	ND	---	0.00781
41	40/41/71	---	---	ND	---	0.00781
42		---	---	ND	---	0.00423
43	43/73	---	---	ND	---	0.00377
44	44/47/65	---	---	ND	---	0.0180
45	45/51	---	---	ND	---	0.00554
46		---	---	ND	---	0.00219
47	44/47/65	---	---	ND	---	0.0180
48		---	---	ND	---	0.00281

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-EB-202305
Lab Sample ID 40262368003
Filename P230529B_04

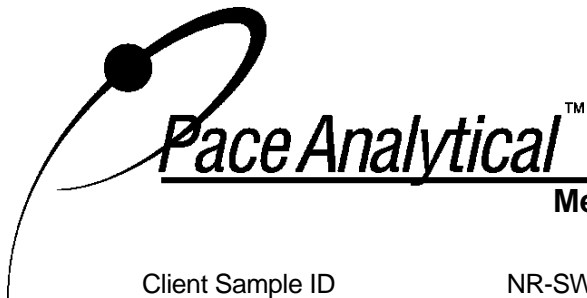
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	---	---	ND	---	0.00650
50	50/53	---	---	ND	---	0.00366
51	45/51	---	---	ND	---	0.00554
52		---	---	ND	---	0.0160
53	50/53	---	---	ND	---	0.00366
54		---	---	ND	---	0.00155
55		---	---	ND	---	0.00208
56		---	---	ND	---	0.00976
57		---	---	ND	---	0.00145
58		---	---	ND	---	0.00183
59	59/62/75	---	---	ND	---	0.00400
60		---	---	ND	---	0.00331
61	61/70/74/76	---	---	ND	---	0.0310
62	59/62/75	---	---	ND	---	0.00400
63		---	---	ND	---	0.00168
64		---	---	ND	---	0.00541
65	44/47/65	---	---	ND	---	0.0180
66		---	---	ND	---	0.0212
67		---	---	ND	---	0.00217
68		---	---	ND	---	0.00242
69	49/69	---	---	ND	---	0.00650
70	61/70/74/76	---	---	ND	---	0.0310
71	40/41/71	---	---	ND	---	0.00781
72		---	---	ND	---	0.00171
73	43/73	---	---	ND	---	0.00377
74	61/70/74/76	---	---	ND	---	0.0310
75	59/62/75	---	---	ND	---	0.00400
76	61/70/74/76	---	---	ND	---	0.0310
77		---	---	ND	---	0.00256
78		---	---	ND	---	0.00223
79		---	---	ND	---	0.00225
80		---	---	ND	---	0.00206
81		---	---	ND	---	0.00172
82		---	---	ND	---	0.00248
83		---	---	ND	---	0.00231
84		---	---	ND	---	0.0128
85	85/116/117	---	---	ND	---	0.00502
86	86/87/97/108/119/125	---	---	ND	---	0.0147
87	86/87/97/108/119/125	---	---	ND	---	0.0147
88	88/91	---	---	ND	---	0.00477
89		---	---	ND	---	0.00302
90	90/101/113	---	---	ND	---	0.0115
91	88/91	---	---	ND	---	0.00477
92		---	---	ND	---	0.00379
93	93/98/100/102	---	---	ND	---	0.00547
94		---	---	ND	---	0.00183
95		---	---	ND	---	0.00841
96		---	---	ND	---	0.00304

Conc = Concentration
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-EB-202305
Lab Sample ID 40262368003
Filename P230529B_04

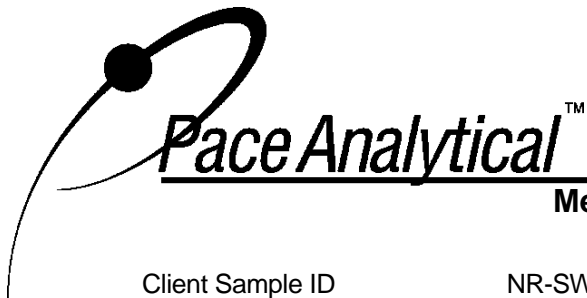
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	---	---	ND	---	0.0147
98	93/98/100/102	---	---	ND	---	0.00547
99		---	---	ND	---	0.00572
100	93/98/100/102	---	---	ND	---	0.00547
101	90/101/113	---	---	ND	---	0.0115
102	93/98/100/102	---	---	ND	---	0.00547
103		---	---	ND	---	0.00189
104		---	---	ND	---	0.00148
105		---	---	ND	---	0.00548
106		---	---	ND	---	0.00172
107	107/124	---	---	ND	---	0.00254
108	86/87/97/108/119/125	---	---	ND	---	0.0147
109		---	---	ND	---	0.00192
110	110/115	---	---	ND	---	0.0125
111		---	---	ND	---	0.00198
112		---	---	ND	---	0.00171
113	90/101/113	---	---	ND	---	0.0115
114		---	---	ND	---	0.00221
115	110/115	---	---	ND	---	0.0125
116	85/116/117	---	---	ND	---	0.00502
117	85/116/117	---	---	ND	---	0.00502
118		---	---	ND	---	0.00866
119	86/87/97/108/119/125	---	---	ND	---	0.0147
120		---	---	ND	---	0.00165
121		---	---	ND	---	0.00126
122		---	---	ND	---	0.00188
123		---	---	ND	---	0.00214
124	107/124	---	---	ND	---	0.00254
125	86/87/97/108/119/125	---	---	ND	---	0.0147
126		---	---	ND	---	0.00216
127		---	---	ND	---	0.00129
128	128/166	---	---	ND	---	0.00421
129	129/138/163	---	---	ND	---	0.0106
130		---	---	ND	---	0.00212
131		---	---	ND	---	0.00273
132		---	---	ND	---	0.00398
133		---	---	ND	---	0.00258
134	134/143	---	---	ND	---	0.00387
135	135/151	---	---	ND	---	0.00502
136		---	---	ND	---	0.00277
137		---	---	ND	---	0.00248
138	129/138/163	---	---	ND	---	0.0106
139	139/140	---	---	ND	---	0.00425
140	139/140	---	---	ND	---	0.00425
141		---	---	ND	---	0.00239
142		---	---	ND	---	0.00187
143	134/143	---	---	ND	---	0.00387
144		---	---	ND	---	0.00202

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-EB-202305
Lab Sample ID 40262368003
Filename P230529B_04

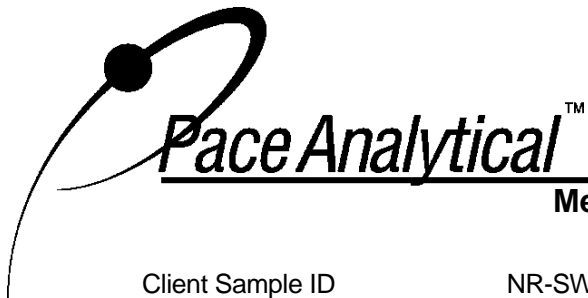
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
145		---	---	ND	---	0.00194
146		---	---	ND	---	0.00246
147	147/149	---	---	ND	---	0.00870
148		---	---	ND	---	0.00227
149	147/149	---	---	ND	---	0.00870
150		---	---	ND	---	0.00126
151	135/151	---	---	ND	---	0.00502
152		---	---	ND	---	0.00206
153	153/168	---	---	ND	---	0.00747
154		---	---	ND	---	0.00170
155		---	---	ND	---	0.00149
156	156/157	---	---	ND	---	0.00431
157	156/157	---	---	ND	---	0.00431
158		---	---	ND	---	0.00250
159		---	---	ND	---	0.00271
160		---	---	ND	---	0.00250
161		---	---	ND	---	0.00181
162		---	---	ND	---	0.00225
163	129/138/163	---	---	ND	---	0.0106
164		---	---	ND	---	0.00235
165		---	---	ND	---	0.00200
166	128/166	---	---	ND	---	0.00421
167		---	---	ND	---	0.00208
168	153/168	---	---	ND	---	0.00747
169		---	---	ND	---	0.00155
170		---	---	ND	---	0.00481
171	171/173	---	---	ND	---	0.00589
172		---	---	ND	---	0.0136
173	171/173	---	---	ND	---	0.00589
174		---	---	ND	---	0.00310
175		---	---	ND	---	0.00147
176		---	---	ND	---	0.00217
177		---	---	ND	---	0.00325
178		---	---	ND	---	0.00219
179		---	---	ND	---	0.00235
180	180/193	---	---	ND	---	0.00556
181		---	---	ND	---	0.00266
182		---	---	ND	---	0.00250
183	183/185	---	---	ND	---	0.00550
184		---	---	ND	---	0.00202
185	183/185	---	---	ND	---	0.00550
186		---	---	ND	---	0.00152
187		---	---	ND	---	0.00318
188		---	---	ND	---	0.00241
189		---	---	ND	---	0.00210
190		---	---	ND	---	0.00246
191		---	---	ND	---	0.00212
192		---	---	ND	---	0.00241

Conc = Concentration
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-EB-202305
Lab Sample ID 40262368003
Filename P230529B_04

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	---	---	ND	---	0.00556
194		---	---	ND	---	0.00182
195		---	---	ND	---	0.00167
196		---	---	ND	---	0.00169
197	197/200	---	---	ND	---	0.00458
198	198/199	---	---	ND	---	0.00275
199	198/199	---	---	ND	---	0.00275
200	197/200	---	---	ND	---	0.00458
201		---	---	ND	---	0.00140
202		---	---	ND	---	0.00225
203		---	---	ND	---	0.00176
204		---	---	ND	---	0.00164
205		---	---	ND	---	0.00192
206		---	---	ND	---	0.00373
207		---	---	ND	---	0.00223
208		---	---	ND	---	0.00217
209		---	---	ND	---	0.0167

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
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REPORT OF LABORATORY ANALYSIS

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-EB-202305
Lab Sample ID 40262368003
Filename P230529B_04

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	ND

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-FB-202305		
Lab Sample ID	40262368004		
Filename	P230529B_05		
Injected By	BAL		
Total Amount Extracted	1050 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	05/16/2023 11:45
ICAL ID	P230529B02	Received	05/20/2023 18:45
CCal Filename(s)	P230529B_01	Extracted	05/23/2023 12:15
Method Blank ID	BLANK-106282	Analyzed	05/29/2023 20:17

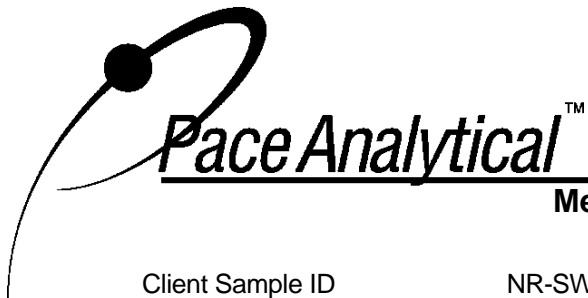
PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.170	3.03	2.0	1.42	71
13C-4-MoCB	3	12.986	3.08	2.0	1.57	79
13C-2,2'-DiCB	4	13.303	1.53	2.0	2.14	107
13C-4,4'-DiCB	15	20.415	1.56	2.0	1.67	84
13C-2,2',6-TrCB	19	17.143	1.02	2.0	2.05	103
13C-3,4,4'-TrCB	37	28.223	1.03	2.0	1.21	60
13C-2,2',6,6'-TeCB	54	20.751	0.79	2.0	1.34	67
13C-3,4,4',5-TeCB	81	35.362	0.79	2.0	1.28	64
13C-3,3',4,4'-TeCB	77	35.950	0.80	2.0	1.23	61
13C-2,2',4,6,6'-PeCB	104	26.923	1.62	2.0	1.70	85
13C-2,3,3',4,4'-PeCB	105	39.573	1.59	2.0	1.07	53
13C-2,3,4,4',5-PeCB	114	38.918	1.61	2.0	1.07	53
13C-2,3',4,4',5-PeCB	118	38.365	1.62	2.0	1.11	55
13C-2,3',4,4',5'-PeCB	123	38.030	1.58	2.0	1.13	56
13C-3,3',4,4',5-PeCB	126	42.742	1.60	2.0	0.995	50
13C-2,2',4,4',6,6'-HxCB	155	32.995	1.23	2.0	2.11	106
13C-HxCB (156/157)	156/157	45.816	1.26	4.0	2.23	56
13C-2,3',4,4',5,5'-HxCB	167	44.642	1.27	2.0	1.14	57
13C-3,3',4,4',5,5'-HxCB	169	49.103	1.30	2.0	1.28	64
13C-2,2',3,4',5,6,6'-HpCB	188	38.918	1.04	2.0	2.07	103
13C-2,3,3',4,4',5,5'-HpCB	189	51.675	1.09	2.0	1.38	69
13C-2,2',3,3',5,5',6,6'-OxCB	202	44.407	0.88	2.0	1.58	79
13C-2,3,3',4,4',5,5',6-OxCB	205	54.283	0.88	2.0	1.70	85
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.051	0.79	2.0	1.88	94
13C-2,2',3,3',4,4',5,5',6,6'-NoCB	208	51.201	0.79	2.0	1.96	98
13C-DeCB	209	57.689	0.71	2.0	2.07	104
Cleanup Standards						
13C-2,4,4'-TrCB	28	23.845	1.02	2.0	1.09	54
13C-2,3,3',5,5'-PeCB	111	35.996	1.54	2.0	1.37	69
13C-2,2',3,3',5,5',6-HpCB	178	42.021	1.02	2.0	1.56	78
Recovery Standards						
13C-2,5-DiCB	9	15.773	1.52	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.856	0.76	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.196	1.57	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.568	1.24	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OxCB	194	53.809	0.91	2.0	NA	NA

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
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R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
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REPORT OF LABORATORY ANALYSIS

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-FB-202305
Lab Sample ID 40262368004
Filename P230529B_05

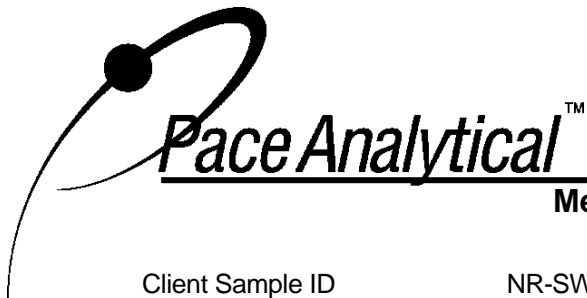
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.00533
2		---	---	ND	---	0.00486
3		---	---	ND	---	0.00421
4		---	---	ND	---	0.00719
5		---	---	ND	---	0.00175
6		---	---	ND	---	0.00897
7		---	---	ND	---	0.00889
8		---	---	ND	---	0.0117
9		---	---	ND	---	0.00235
10		---	---	ND	---	0.00279
11		---	---	ND	---	0.139
12	12/13	---	---	ND	---	0.00503
13	12/13	---	---	ND	---	0.00503
14		---	---	ND	---	0.00168
15		---	---	ND	---	0.00577
16		---	---	ND	---	0.00589
17		---	---	ND	---	0.00493
18	18/30	---	---	ND	---	0.0109
19		---	---	ND	---	0.00797
20	20/28	---	---	ND	---	0.0174
21	21/33	---	---	ND	---	0.0126
22		---	---	ND	---	0.00724
23		---	---	ND	---	0.00152
24		---	---	ND	---	0.00183
25		---	---	ND	---	0.00273
26	26/29	---	---	ND	---	0.00438
27		---	---	ND	---	0.00193
28	20/28	---	---	ND	---	0.0174
29	26/29	---	---	ND	---	0.00438
30	18/30	---	---	ND	---	0.0109
31		---	---	ND	---	0.0168
32		---	---	ND	---	0.00700
33	21/33	---	---	ND	---	0.0126
34		---	---	ND	---	0.00155
35		---	---	ND	---	0.00306
36		---	---	ND	---	0.00193
37		---	---	ND	---	0.00403
38		---	---	ND	---	0.00142
39		---	---	ND	---	0.00157
40	40/41/71	---	---	ND	---	0.00776
41	40/41/71	---	---	ND	---	0.00776
42		---	---	ND	---	0.00421
43	43/73	---	---	ND	---	0.00375
44	44/47/65	---	---	ND	---	0.0179
45	45/51	---	---	ND	---	0.00551
46		---	---	ND	---	0.00218
47	44/47/65	---	---	ND	---	0.0179
48		---	---	ND	---	0.00279

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-FB-202305
Lab Sample ID 40262368004
Filename P230529B_05

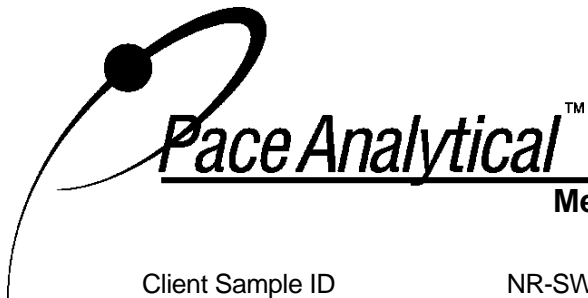
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	---	---	ND	---	0.00646
50	50/53	---	---	ND	---	0.00363
51	45/51	---	---	ND	---	0.00551
52		---	---	ND	---	0.0159
53	50/53	---	---	ND	---	0.00363
54		---	---	ND	---	0.00154
55		---	---	ND	---	0.00206
56		---	---	ND	---	0.00969
57		---	---	ND	---	0.00144
58		---	---	ND	---	0.00182
59	59/62/75	---	---	ND	---	0.00398
60		---	---	ND	---	0.00329
61	61/70/74/76	---	---	ND	---	0.0308
62	59/62/75	---	---	ND	---	0.00398
63		---	---	ND	---	0.00167
64		---	---	ND	---	0.00537
65	44/47/65	---	---	ND	---	0.0179
66		---	---	ND	---	0.0210
67		---	---	ND	---	0.00216
68		---	---	ND	---	0.00241
69	49/69	---	---	ND	---	0.00646
70	61/70/74/76	---	---	ND	---	0.0308
71	40/41/71	---	---	ND	---	0.00776
72		---	---	ND	---	0.00169
73	43/73	---	---	ND	---	0.00375
74	61/70/74/76	---	---	ND	---	0.0308
75	59/62/75	---	---	ND	---	0.00398
76	61/70/74/76	---	---	ND	---	0.0308
77		---	---	ND	---	0.00254
78		---	---	ND	---	0.00222
79		---	---	ND	---	0.00224
80		---	---	ND	---	0.00205
81		---	---	ND	---	0.00171
82		---	---	ND	---	0.00247
83		---	---	ND	---	0.00229
84		---	---	ND	---	0.0127
85	85/116/117	---	---	ND	---	0.00499
86	86/87/97/108/119/125	---	---	ND	---	0.0146
87	86/87/97/108/119/125	---	---	ND	---	0.0146
88	88/91	---	---	ND	---	0.00474
89		---	---	ND	---	0.00300
90	90/101/113	---	---	ND	---	0.0115
91	88/91	---	---	ND	---	0.00474
92		---	---	ND	---	0.00377
93	93/98/100/102	---	---	ND	---	0.00543
94		---	---	ND	---	0.00181
95		---	---	ND	---	0.00835
96		---	---	ND	---	0.00302

Conc = Concentration
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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-FB-202305
Lab Sample ID 40262368004
Filename P230529B_05

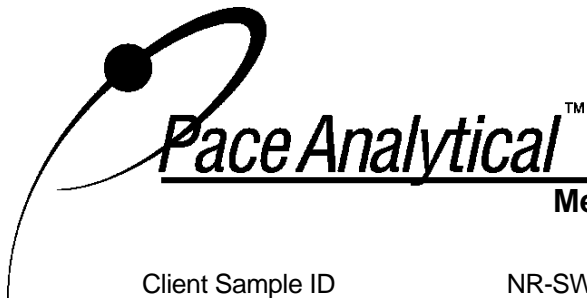
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	---	---	ND	---	0.0146
98	93/98/100/102	---	---	ND	---	0.00543
99		---	---	ND	---	0.00568
100	93/98/100/102	---	---	ND	---	0.00543
101	90/101/113	---	---	ND	---	0.0115
102	93/98/100/102	---	---	ND	---	0.00543
103		---	---	ND	---	0.00188
104		---	---	ND	---	0.00147
105		---	---	ND	---	0.00545
106		---	---	ND	---	0.00171
107	107/124	---	---	ND	---	0.00252
108	86/87/97/108/119/125	---	---	ND	---	0.0146
109		---	---	ND	---	0.00191
110	110/115	---	---	ND	---	0.0124
111		---	---	ND	---	0.00197
112		---	---	ND	---	0.00170
113	90/101/113	---	---	ND	---	0.0115
114		---	---	ND	---	0.00220
115	110/115	---	---	ND	---	0.0124
116	85/116/117	---	---	ND	---	0.00499
117	85/116/117	---	---	ND	---	0.00499
118		---	---	ND	---	0.00860
119	86/87/97/108/119/125	---	---	ND	---	0.0146
120		---	---	ND	---	0.00164
121		---	---	ND	---	0.00125
122		---	---	ND	---	0.00187
123		---	---	ND	---	0.00212
124	107/124	---	---	ND	---	0.00252
125	86/87/97/108/119/125	---	---	ND	---	0.0146
126		---	---	ND	---	0.00214
127		---	---	ND	---	0.00128
128	128/166	---	---	ND	---	0.00419
129	129/138/163	---	---	ND	---	0.0105
130		---	---	ND	---	0.00210
131		---	---	ND	---	0.00271
132		---	---	ND	---	0.00396
133		---	---	ND	---	0.00256
134	134/143	---	---	ND	---	0.00384
135	135/151	---	---	ND	---	0.00499
136		---	---	ND	---	0.00275
137		---	---	ND	---	0.00247
138	129/138/163	---	---	ND	---	0.0105
139	139/140	---	---	ND	---	0.00422
140	139/140	---	---	ND	---	0.00422
141		---	---	ND	---	0.00237
142		---	---	ND	---	0.00185
143	134/143	---	---	ND	---	0.00384
144		---	---	ND	---	0.00201

Conc = Concentration
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-FB-202305
Lab Sample ID 40262368004
Filename P230529B_05

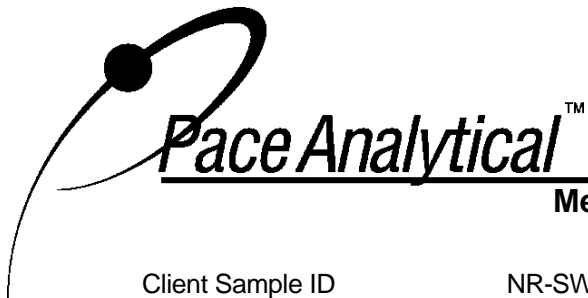
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
145		---	---	ND	---	0.00193
146		---	---	ND	---	0.00245
147	147/149	---	---	ND	---	0.00864
148		---	---	ND	---	0.00226
149	147/149	---	---	ND	---	0.00864
150		---	---	ND	---	0.00125
151	135/151	---	---	ND	---	0.00499
152		---	---	ND	---	0.00205
153	153/168	---	---	ND	---	0.00742
154		---	---	ND	---	0.00169
155		---	---	ND	---	0.00148
156	156/157	---	---	ND	---	0.00428
157	156/157	---	---	ND	---	0.00428
158		---	---	ND	---	0.00249
159		---	---	ND	---	0.00270
160		---	---	ND	---	0.00249
161		---	---	ND	---	0.00179
162		---	---	ND	---	0.00224
163	129/138/163	---	---	ND	---	0.0105
164		---	---	ND	---	0.00233
165		---	---	ND	---	0.00199
166	128/166	---	---	ND	---	0.00419
167		---	---	ND	---	0.00206
168	153/168	---	---	ND	---	0.00742
169		---	---	ND	---	0.00154
170		---	---	ND	---	0.00478
171	171/173	---	---	ND	---	0.00585
172		---	---	ND	---	0.0136
173	171/173	---	---	ND	---	0.00585
174		---	---	ND	---	0.00308
175		---	---	ND	---	0.00146
176		---	---	ND	---	0.00216
177		---	---	ND	---	0.00323
178		---	---	ND	---	0.00218
179		---	---	ND	---	0.00233
180	180/193	---	---	ND	---	0.00552
181		---	---	ND	---	0.00264
182		---	---	ND	---	0.00249
183	183/185	---	---	ND	---	0.00547
184		---	---	ND	---	0.00201
185	183/185	---	---	ND	---	0.00547
186		---	---	ND	---	0.00151
187		---	---	ND	---	0.00315
188		---	---	ND	---	0.00239
189		---	---	ND	---	0.00208
190		---	---	ND	---	0.00245
191		---	---	ND	---	0.00210
192		---	---	ND	---	0.00239

Conc = Concentration
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-FB-202305
Lab Sample ID 40262368004
Filename P230529B_05

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	---	---	ND	---	0.00552
194		---	---	ND	---	0.00180
195		---	---	ND	---	0.00166
196		---	---	ND	---	0.00168
197	197/200	---	---	ND	---	0.00455
198	198/199	---	---	ND	---	0.00273
199	198/199	---	---	ND	---	0.00273
200	197/200	---	---	ND	---	0.00455
201		---	---	ND	---	0.00139
202		---	---	ND	---	0.00224
203		---	---	ND	---	0.00175
204		---	---	ND	---	0.00162
205		---	---	ND	---	0.00191
206		---	---	ND	---	0.00371
207		---	---	ND	---	0.00222
208		---	---	ND	---	0.00216
209		---	---	ND	---	0.0166

Conc = Concentration
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-FB-202305
Lab Sample ID 40262368004
Filename P230529B_05

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	ND

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-DS1-202305		
Lab Sample ID	40262368005		
Filename	P230529B_06		
Injected By	BAL		
Total Amount Extracted	1050 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	05/16/2023 12:45
ICAL ID	P230529B02	Received	05/20/2023 18:45
CCal Filename(s)	P230529B_01	Extracted	05/23/2023 12:15
Method Blank ID	BLANK-106282	Analyzed	05/29/2023 21:20

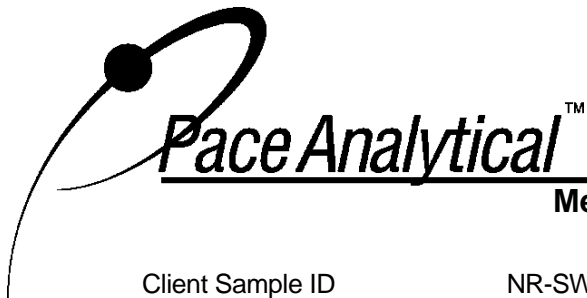
PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.205	2.84	2.0	1.43	72
13C-4-MoCB	3	13.009	3.01	2.0	1.73	87
13C-2,2'-DiCB	4	13.325	1.62	2.0	2.39	120
13C-4,4'-DiCB	15	20.426	1.56	2.0	1.80	90
13C-2,2',6-TrCB	19	17.154	1.04	2.0	2.24	112
13C-3,4,4'-TrCB	37	28.223	1.02	2.0	1.30	65
13C-2,2',6,6'-TeCB	54	20.766	0.76	2.0	1.53	77
13C-3,4,4',5-TeCB	81	35.361	0.80	2.0	1.34	67
13C-3,3',4,4'-TeCB	77	35.949	0.78	2.0	1.30	65
13C-2,2',4,6,6'-PeCB	104	26.908	1.60	2.0	1.81	91
13C-2,3,3',4,4'-PeCB	105	39.572	1.60	2.0	1.05	52
13C-2,3,4,4',5-PeCB	114	38.918	1.62	2.0	1.05	53
13C-2,3',4,4',5-PeCB	118	38.365	1.61	2.0	1.09	54
13C-2,3',4,4',5'-PeCB	123	38.029	1.49	2.0	1.07	53
13C-3,3',4,4',5-PeCB	126	42.725	1.52	2.0	0.883	44
13C-2,2',4,4',6,6'-HxCB	155	32.994	1.30	2.0	2.37	118
13C-HxCB (156/157)	156/157	45.815	1.26	4.0	2.13	53
13C-2,3',4,4',5,5'-HxCB	167	44.641	1.24	2.0	1.11	56
13C-3,3',4,4',5,5'-HxCB	169	49.102	1.27	2.0	1.22	61
13C-2,2',3,4',5,6,6'-HpCB	188	38.918	1.01	2.0	2.16	108
13C-2,3,3',4,4',5,5'-HpCB	189	51.675	1.05	2.0	1.39	70
13C-2,2',3,3',5,5',6,6'-OcCB	202	44.407	0.91	2.0	1.61	81
13C-2,3,3',4,4',5,5',6-OcCB	205	54.283	0.91	2.0	1.73	86
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.050	0.76	2.0	1.98	99
13C-2,2',3,3',4,4',5,5',6,6'-NoCB	208	51.201	0.77	2.0	2.07	104
13C-DeCB	209	57.688	0.69	2.0	2.11	106
CleanupStandards						
13C-2,4,4'-TrCB	28	23.860	1.03	2.0	1.21	60
13C-2,3,3',5,5'-PeCB	111	35.996	1.59	2.0	1.51	76
13C-2,2',3,3',5,5',6-HpCB	178	42.037	1.04	2.0	1.75	87
Recovery Standards						
13C-2,5-DiCB	9	15.795	1.54	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.856	0.77	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.195	1.55	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.568	1.24	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	53.809	0.89	2.0	NA	NA

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REPORT OF LABORATORY ANALYSIS

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-DS1-202305
Lab Sample ID 40262368005
Filename P230529B_06

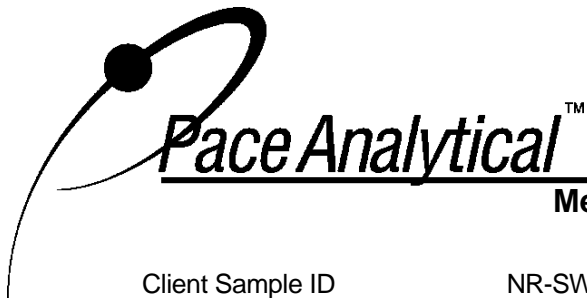
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		10.227	2.58	---	IJ	0.00534
2		---	---	ND	---	0.00486
3		---	---	ND	---	0.00421
4		13.337	1.34	0.154	---	0.00719
5		---	---	ND	---	0.00175
6		16.303	1.43	0.0811	---	0.00897
7		16.005	1.46	0.0173	J	0.00889
8		16.823	1.55	0.0264	J	0.0117
9		15.806	1.38	0.0161	J	0.00235
10		---	---	ND	---	0.00279
11		---	---	ND	---	0.139
12	12/13	---	---	ND	---	0.00503
13	12/13	---	---	ND	---	0.00503
14		---	---	ND	---	0.00168
15		20.448	1.44	0.0124	J	0.00578
16		20.404	1.03	0.00908	J	0.00589
17		19.873	1.04	0.130	---	0.00493
18	18/30	19.387	0.93	0.0817	---	0.0109
19		17.176	1.08	0.100	---	0.00798
20	20/28	23.875	1.03	0.146	J	0.0174
21	21/33	24.139	1.01	0.0428	J	0.0126
22		24.556	1.25	---	IJ	0.00725
23		---	---	ND	---	0.00152
24		---	---	ND	---	0.00183
25		23.195	1.11	0.161	---	0.00274
26	26/29	22.932	1.01	0.284	---	0.00438
27		20.116	1.05	0.0218	J	0.00193
28	20/28	23.875	1.03	(0.146)	J	0.0174
29	26/29	22.932	1.01	(0.284)	---	0.00438
30	18/30	19.387	0.93	(0.0817)	---	0.0109
31		23.535	0.98	0.0668	J	0.0169
32		20.998	1.10	0.0699	---	0.00700
33	21/33	24.139	1.01	(0.0428)	J	0.0126
34		22.421	1.21	---	IJ	0.00155
35		---	---	ND	---	0.00306
36		---	---	ND	---	0.00193
37		28.254	0.95	0.0115	J	0.00404
38		---	---	ND	---	0.00142
39		---	---	ND	---	0.00157
40	40/41/71	28.084	0.79	0.260	---	0.00777
41	40/41/71	28.084	0.79	(0.260)	---	0.00777
42		27.542	0.74	0.158	---	0.00421
43	43/73	26.041	0.80	0.0337	J	0.00375
44	44/47/65	27.031	0.78	0.769	---	0.0179
45	45/51	24.077	0.73	0.131	---	0.00551
46		24.309	0.79	0.0634	---	0.00218
47	44/47/65	27.031	0.78	(0.769)	---	0.0179
48		26.753	0.59	---	IJ	0.00660

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-DS1-202305
Lab Sample ID 40262368005
Filename P230529B_06

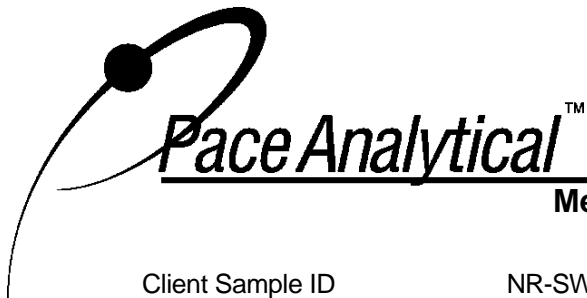
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	26.428	0.77	1.10	---	0.00647
50	50/53	23.226	0.77	0.249	---	0.00363
51	45/51	24.077	0.73	(0.131)	---	0.00551
52		25.887	0.76	1.41	---	0.0159
53	50/53	23.226	0.77	(0.249)	---	0.00363
54		20.797	0.79	0.0130 J	---	0.00154
55		---	---	ND	---	0.00207
56		32.066	0.85	0.0386	---	0.00970
57		29.993	0.76	0.0399	---	0.00144
58		30.210	0.81	0.00777 J	---	0.00182
59	59/62/75	27.387	0.77	0.0418 J	---	0.00398
60		32.314	0.85	0.00456 J	---	0.00329
61	61/70/74/76	31.030	0.80	0.270	---	0.0308
62	59/62/75	27.387	0.77	(0.0418) J	---	0.00398
63		30.689	0.78	0.0264 J	---	0.00167
64		28.316	0.77	0.0957	---	0.00537
65	44/47/65	27.031	0.78	(0.769)	---	0.0179
66		31.385	0.78	0.229	---	0.0210
67		30.411	0.69	0.0226 J	---	0.00216
68		29.514	0.82	0.0319 J	---	0.00241
69	49/69	26.428	0.77	(1.10)	---	0.00647
70	61/70/74/76	31.030	0.80	(0.270)	---	0.0308
71	40/41/71	28.084	0.79	(0.260)	---	0.00777
72		29.220	0.77	0.0415	---	0.00169
73	43/73	26.041	0.80	(0.0337) J	---	0.00375
74	61/70/74/76	31.030	0.80	(0.270)	---	0.0308
75	59/62/75	27.387	0.77	(0.0418) J	---	0.00398
76	61/70/74/76	31.030	0.80	(0.270)	---	0.0308
77		35.996	0.83	0.0132 J	---	0.00254
78		---	---	ND	---	0.00222
79		34.340	0.67	0.00759 J	---	0.00224
80		---	---	ND	---	0.00205
81		---	---	ND	---	0.00171
82		35.593	1.64	0.0472	---	0.00247
83		33.691	1.57	0.0910	---	0.00230
84		31.246	1.49	0.252	---	0.0127
85	85/116/117	35.068	1.40	0.136	---	0.00499
86	86/87/97/108/119/125	34.356	1.48	0.504	---	0.0146
87	86/87/97/108/119/125	34.356	1.48	(0.504)	---	0.0146
88	88/91	31.045	1.53	0.255	---	0.00474
89		31.757	1.61	0.00622 J	---	0.00300
90	90/101/113	33.227	1.54	0.912	---	0.0115
91	88/91	31.045	1.53	(0.255)	---	0.00474
92		32.608	1.53	0.431	---	0.00377
93	93/98/100/102	30.519	1.65	0.0959 J	---	0.00543
94		29.637	1.57	0.0306 J	---	0.00182
95		30.101	1.48	0.844	---	0.00836
96		27.310	1.41	0.0125 J	---	0.00302

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-DS1-202305
Lab Sample ID 40262368005
Filename P230529B_06

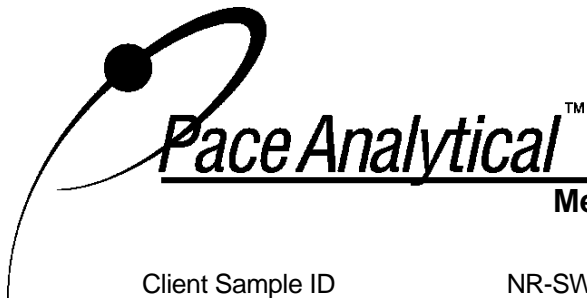
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	34.356	1.48	(0.504)	---	0.0146
98	93/98/100/102	30.519	1.65	(0.0959) J	---	0.00543
99		33.845	1.53	0.473	---	0.00568
100	93/98/100/102	30.519	1.65	(0.0959) J	---	0.00543
101	90/101/113	33.227	1.54	(0.912)	---	0.0115
102	93/98/100/102	30.519	1.65	(0.0959) J	---	0.00543
103		29.421	1.74	0.0351 J	---	0.00188
104		---	---	ND	---	0.00147
105		39.589	1.46	0.136	---	0.00545
106		---	---	ND	---	0.00171
107	107/124	37.677	1.48	0.0193 J	---	0.00252
108	86/87/97/108/119/125	34.356	1.48	(0.504)	---	0.0146
109		37.929	1.50	0.0728	---	0.00191
110	110/115	35.269	1.58	1.37	---	0.0124
111		36.011	1.69	0.00362 J	---	0.00197
112		---	---	ND	---	0.00170
113	90/101/113	33.227	1.54	(0.912)	---	0.0115
114		38.918	1.93	---	IJ 0.00366	0.00220
115	110/115	35.269	1.58	(1.37)	---	0.0124
116	85/116/117	35.068	1.40	(0.136)	---	0.00499
117	85/116/117	35.068	1.40	(0.136)	---	0.00499
118		38.398	1.52	0.534	---	0.00861
119	86/87/97/108/119/125	34.356	1.48	(0.504)	---	0.0146
120		36.522	1.55	0.00901 J	---	0.00164
121		---	---	ND	---	0.00125
122		38.750	1.34	0.00642 J	---	0.00187
123		38.046	1.74	0.00801 J	---	0.00212
124	107/124	37.677	1.48	(0.0193) J	---	0.00252
125	86/87/97/108/119/125	34.356	1.48	(0.504)	---	0.0146
126		42.775	1.32	0.00259 J	---	0.00214
127		---	---	ND	---	0.00128
128	128/166	42.875	1.24	0.122	---	0.00419
129	129/138/163	41.601	1.18	0.638	---	0.0105
130		40.930	1.16	0.0605	---	0.00210
131		38.046	1.26	0.0101 J	---	0.00272
132		38.499	1.29	0.282	---	0.00396
133		39.019	1.43	0.0253 J	---	0.00256
134	134/143	37.426	1.20	0.0612 J	---	0.00384
135	135/151	36.228	1.27	0.311	---	0.00499
136		33.722	1.25	0.125	---	0.00275
137		41.165	1.18	0.0286 J	---	0.00247
138	129/138/163	41.601	1.18	(0.638)	---	0.0105
139	139/140	37.845	1.30	0.0166 J	---	0.00423
140	139/140	37.845	1.30	(0.0166) J	---	0.00423
141		40.511	1.23	0.0744	---	0.00237
142		---	---	ND	---	0.00186
143	134/143	37.426	1.20	(0.0612) J	---	0.00384
144		36.831	1.20	0.0233 J	---	0.00201

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-DS1-202305
Lab Sample ID 40262368005
Filename P230529B_06

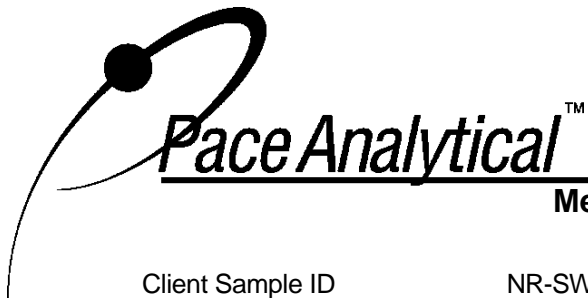
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
145		---	---	ND	---	0.00193
146		39.689	1.26	0.120	---	0.00245
147	147/149	37.208	1.19	0.657	---	0.00865
148		35.640	1.41	0.00389 J	---	0.00226
149	147/149	37.208	1.19	(0.657)	---	0.00865
150		33.381	1.25	0.00407 J	---	0.00125
151	135/151	36.228	1.27	(0.311)	---	0.00499
152		33.211	1.26	0.00281 J	---	0.00205
153	153/168	40.327	1.24	0.469	---	0.00742
154		36.522	1.22	0.0226 J	---	0.00169
155		---	---	ND	---	0.00148
156	156/157	45.832	1.20	0.0824	---	0.00428
157	156/157	45.832	1.20	(0.0824)	---	0.00428
158		42.020	1.18	0.0533	---	0.00249
159		---	---	ND	---	0.00270
160		---	---	ND	---	0.00249
161		---	---	ND	---	0.00179
162		---	---	ND	---	0.00224
163	129/138/163	41.601	1.18	(0.638)	---	0.0105
164		41.266	1.22	0.0464	---	0.00233
165		39.438	0.89	---	IJ 0.00218	0.00199
166	128/166	42.875	1.24	(0.122)	---	0.00419
167		44.675	1.41	0.0291 J	---	0.00207
168	153/168	40.327	1.24	(0.469)	---	0.00742
169		---	---	ND	---	0.00155
170		48.549	1.02	0.0782	---	0.00478
171	171/173	44.960	0.94	0.0282 J	---	0.00585
172		---	---	ND	---	0.0136
173	171/173	44.960	0.94	(0.0282) J	---	0.00585
174		43.853	1.03	0.0634	---	0.00308
175		42.708	1.33	---	IJ 0.00236	0.00146
176		40.193	1.05	0.0116 J	---	0.00216
177		44.306	1.08	0.0540	---	0.00323
178		42.054	1.01	0.0214 J	---	0.00218
179		39.287	0.98	0.0425	---	0.00233
180	180/193	47.257	1.01	0.124	---	0.00553
181		---	---	ND	---	0.00264
182		---	---	ND	---	0.00249
183	183/185	43.635	1.18	0.0460 J	---	0.00547
184		---	---	ND	---	0.00201
185	183/185	43.635	1.18	(0.0460) J	---	0.00547
186		---	---	ND	---	0.00151
187		42.993	1.14	0.0922	---	0.00316
188		---	---	ND	---	0.00239
189		51.718	1.13	0.00304 J	---	0.00208
190		49.102	1.17	0.0152 J	---	0.00245
191		47.610	1.76	---	IJ 0.00262	0.00210
192		---	---	ND	---	0.00239

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-DS1-202305
Lab Sample ID 40262368005
Filename P230529B_06

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	47.257	1.01	(0.124)	---	0.00553
194		53.852	0.98	0.0225 J	---	0.00181
195		51.459	0.96	0.00956 J	---	0.00166
196		49.940	0.86	0.0119 J	---	0.00168
197	197/200	---	---	ND	---	0.00455
198	198/199	49.270	0.87	0.0312 J	---	0.00274
199	198/199	49.270	0.87	(0.0312) J	---	0.00274
200	197/200	---	---	ND	---	0.00455
201		45.379	0.67	---	0.00307	0.00139
202		44.424	0.91	0.00582 J	---	0.00224
203		50.125	0.68	---	0.0117	0.00175
204		---	---	ND	---	0.00163
205		---	---	ND	---	0.00191
206		56.072	0.89	0.00682 J	---	0.00371
207		---	---	ND	---	0.00222
208		---	---	ND	---	0.00216
209		---	---	ND	---	0.0166

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REPORT OF LABORATORY ANALYSIS

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

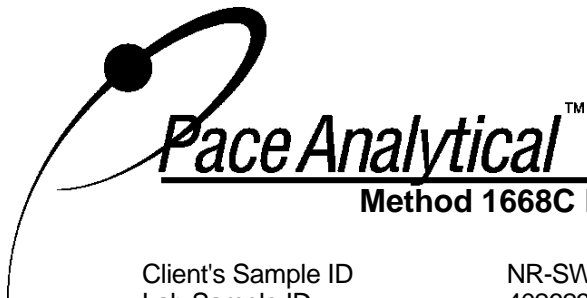
Client Sample ID NR-SW-DS1-202305
Lab Sample ID 40262368005
Filename P230529B_06

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	0.307 J
Total Trichloro Biphenyls	1.12 J
Total Tetrachloro Biphenyls	5.06 J
Total Pentachloro Biphenyls	6.29 J
Total Hexachloro Biphenyls	3.27 J
Total Heptachloro Biphenyls	0.580 J
Total Octachloro Biphenyls	0.0809 J
Total Nonachloro Biphenyls	0.00682 J
Decachloro Biphenyls	ND
Total PCBs	16.7 J

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-OU4-202305		
Lab Sample ID	40262368006		
Filename	P230529B_07		
Injected By	BAL		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	05/16/2023 13:15
ICAL ID	P230529B02	Received	05/20/2023 18:45
CCal Filename(s)	P230529B_01	Extracted	05/23/2023 12:15
Method Blank ID	BLANK-106282	Analyzed	05/29/2023 22:22

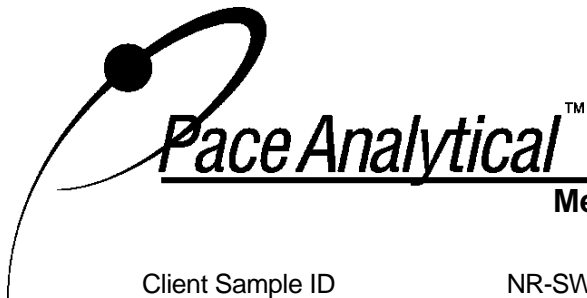
PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.137	2.95	2.0	1.53	76
13C-4-MoCB	3	12.953	2.99	2.0	1.65	82
13C-2,2'-DiCB	4	13.258	1.55	2.0	2.30	115
13C-4,4'-DiCB	15	20.393	1.56	2.0	1.72	86
13C-2,2',6-TrCB	19	17.121	1.05	2.0	2.35	117
13C-3,4,4'-TrCB	37	28.208	1.03	2.0	1.20	60
13C-2,2',6,6'-TeCB	54	20.736	0.77	2.0	1.52	76
13C-3,4,4',5-TeCB	81	35.362	0.76	2.0	1.29	64
13C-3,3',4,4'-TeCB	77	35.935	0.78	2.0	1.28	64
13C-2,2',4,6,6'-PeCB	104	26.909	1.54	2.0	1.75	87
13C-2,3,3',4,4'-PeCB	105	39.556	1.61	2.0	1.04	52
13C-2,3,4,4',5-PeCB	114	38.919	1.58	2.0	1.05	52
13C-2,3',4,4',5-PeCB	118	38.349	1.54	2.0	1.03	51
13C-2,3',4,4',5'-PeCB	123	38.030	1.53	2.0	1.08	54
13C-3,3',4,4',5-PeCB	126	42.726	1.61	2.0	0.852	43
13C-2,2',4,4',6,6'-HxCB	155	32.980	1.25	2.0	2.30	115
13C-HxCB (156/157)	156/157	45.816	1.27	4.0	2.05	51
13C-2,3',4,4',5,5'-HxCB	167	44.643	1.26	2.0	1.10	55
13C-3,3',4,4',5,5'-HxCB	169	49.103	1.25	2.0	1.18	59
13C-2,2',3,4',5,6,6'-HpCB	188	38.919	1.04	2.0	2.19	110
13C-2,3,3',4,4',5,5'-HpCB	189	51.676	1.05	2.0	1.38	69
13C-2,2',3,3',5,5',6,6'-OxCB	202	44.408	0.91	2.0	1.59	79
13C-2,3,3',4,4',5,5',6-OxCB	205	54.284	0.89	2.0	1.68	84
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.051	0.77	2.0	1.94	97
13C-2,2',3,3',4,4',5,5',6,6'-NoCB	208	51.202	0.76	2.0	2.06	103
13C-DeCB	209	57.689	0.72	2.0	2.04	102
CleanupStandards						
13C-2,4,4'-TrCB	28	23.845	1.03	2.0	1.14	57
13C-2,3,3',5,5'-PeCB	111	35.981	1.56	2.0	1.48	74
13C-2,2',3,3',5,5',6-HpCB	178	42.021	1.06	2.0	1.73	86
Recovery Standards						
13C-2,5-DiCB	9	15.751	1.51	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.841	0.77	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.181	1.54	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.568	1.27	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OxCB	194	53.810	0.91	2.0	NA	NA

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-OU4-202305
Lab Sample ID 40262368006
Filename P230529B_07

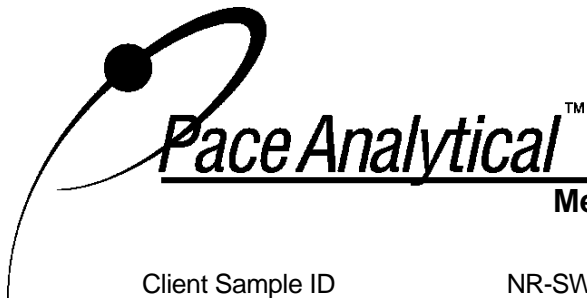
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.00535
2		---	---	ND	---	0.00487
3		---	---	ND	---	0.00422
4		---	---	ND	---	0.00721
5		---	---	ND	---	0.00176
6		---	---	ND	---	0.00900
7		---	---	ND	---	0.00892
8		---	---	ND	---	0.0118
9		---	---	ND	---	0.00236
10		---	---	ND	---	0.00280
11		---	---	ND	---	0.139
12	12/13	---	---	ND	---	0.00505
13	12/13	---	---	ND	---	0.00505
14		---	---	ND	---	0.00168
15		---	---	ND	---	0.00579
16		---	---	ND	---	0.00591
17		19.840	0.90	0.0183 J	---	0.00495
18	18/30	19.343	1.09	0.0158 J	---	0.0109
19		---	---	ND	---	0.00800
20	20/28	23.861	1.04	0.0603 J	---	0.0175
21	21/33	24.124	1.13	0.0141 J	---	0.0126
22		---	---	ND	---	0.00727
23		---	---	ND	---	0.00152
24		---	---	ND	---	0.00183
25		23.180	0.96	0.0177 J	---	0.00274
26	26/29	22.902	1.19	0.0274 J	---	0.00439
27		---	---	ND	---	0.00194
28	20/28	23.861	1.04	(0.0603) J	---	0.0175
29	26/29	22.902	1.19	(0.0274) J	---	0.00439
30	18/30	19.343	1.09	(0.0158) J	---	0.0109
31		23.505	1.14	0.0206 J	---	0.0169
32		20.968	0.99	0.0274 J	---	0.00702
33	21/33	24.124	1.13	(0.0141) J	---	0.0126
34		22.391	1.29	---	0.00223	0.00156
35		---	---	ND	---	0.00307
36		---	---	ND	---	0.00194
37		---	---	ND	---	0.00405
38		---	---	ND	---	0.00143
39		---	---	ND	---	0.00158
40	40/41/71	28.053	0.82	0.0728 J	---	0.00779
41	40/41/71	28.053	0.82	(0.0728) J	---	0.00779
42		27.527	0.82	0.0514	---	0.00422
43	43/73	26.042	0.87	0.00793 J	---	0.00376
44	44/47/65	27.017	0.78	0.240	---	0.0179
45	45/51	24.046	0.82	0.0496 J	---	0.00553
46		24.294	0.72	0.0243 J	---	0.00219
47	44/47/65	27.017	0.78	(0.240)	---	0.0179
48		---	---	ND	---	0.00280

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-OU4-202305
Lab Sample ID 40262368006
Filename P230529B_07

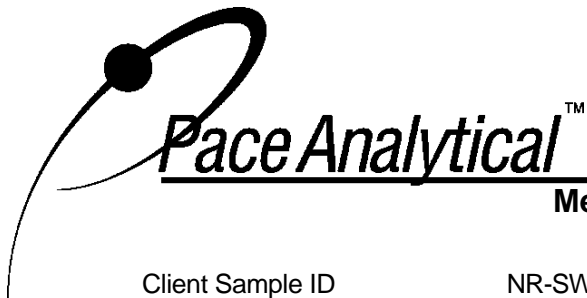
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	26.413	0.77	0.264	---	0.00649
50	50/53	23.195	0.77	0.0807	---	0.00365
51	45/51	24.046	0.82	(0.0496) J	---	0.00553
52		25.872	0.76	0.277	---	0.0160
53	50/53	23.195	0.77	(0.0807)	---	0.00365
54		20.767	0.73	0.00445 J	---	0.00154
55		---	---	ND	---	0.00207
56		32.067	0.87	0.0148 J	---	0.00973
57		29.963	0.69	0.00426 J	---	0.00144
58		30.210	0.66	0.00280 J	---	0.00183
59	59/62/75	27.373	0.70	0.0104 J	---	0.00399
60		---	---	ND	---	0.00330
61	61/70/74/76	31.015	0.82	0.0969 J	---	0.0309
62	59/62/75	27.373	0.70	(0.0104) J	---	0.00399
63		30.674	0.85	0.00879 J	---	0.00168
64		28.285	0.82	0.0249 J	---	0.00539
65	44/47/65	27.017	0.78	(0.240)	---	0.0179
66		31.386	0.79	0.0827 J	---	0.0211
67		30.412	0.99	---	IJ 0.00263	0.00217
68		29.483	0.57	---	IJ 0.00551	0.00242
69	49/69	26.413	0.77	(0.264)	---	0.00649
70	61/70/74/76	31.015	0.82	(0.0969) J	---	0.0309
71	40/41/71	28.053	0.82	(0.0728) J	---	0.00779
72		29.189	0.76	0.00962 J	---	0.00170
73	43/73	26.042	0.87	(0.00793) J	---	0.00376
74	61/70/74/76	31.015	0.82	(0.0969) J	---	0.0309
75	59/62/75	27.373	0.70	(0.0104) J	---	0.00399
76	61/70/74/76	31.015	0.82	(0.0969) J	---	0.0309
77		35.950	0.99	---	IJ 0.00396	0.00255
78		---	---	ND	---	0.00223
79		---	---	ND	---	0.00225
80		---	---	ND	---	0.00205
81		---	---	ND	---	0.00172
82		35.594	1.50	0.0214 J	---	0.00248
83		33.691	1.64	0.0258 J	---	0.00230
84		31.247	1.69	0.0812	---	0.0128
85	85/116/117	35.114	1.57	0.0547 J	---	0.00501
86	86/87/97/108/119/125	34.434	1.62	0.192 J	---	0.0146
87	86/87/97/108/119/125	34.434	1.62	(0.192) J	---	0.0146
88	88/91	31.030	1.58	0.0677 J	---	0.00476
89		---	---	ND	---	0.00301
90	90/101/113	33.212	1.49	0.328	---	0.0115
91	88/91	31.030	1.58	(0.0677) J	---	0.00476
92		32.608	1.42	0.0989	---	0.00378
93	93/98/100/102	30.365	1.35	0.0213 J	---	0.00545
94		29.622	1.94	---	IJ 0.00509	0.00182
95		30.087	1.48	0.255	---	0.00839
96		27.295	1.15	---	IJ 0.00362	0.00303

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-OU4-202305
Lab Sample ID 40262368006
Filename P230529B_07

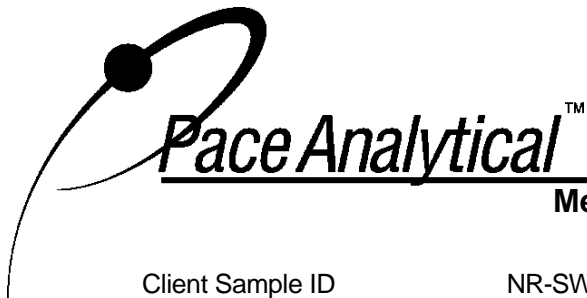
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	34.434	1.62	(0.192) J	---	0.0146
98	93/98/100/102	30.365	1.35	(0.0213) J	---	0.00545
99		33.831	1.65	0.164	---	0.00570
100	93/98/100/102	30.365	1.35	(0.0213) J	---	0.00545
101	90/101/113	33.212	1.49	(0.328)	---	0.0115
102	93/98/100/102	30.365	1.35	(0.0213) J	---	0.00545
103		29.406	1.57	0.00837 J	---	0.00189
104		---	---	ND	---	0.00147
105		39.590	1.51	0.0623	---	0.00547
106		---	---	ND	---	0.00171
107	107/124	37.678	1.92	---	0.00770	0.00253
108	86/87/97/108/119/125	34.434	1.62	(0.192) J	---	0.0146
109		37.930	1.62	0.0250 J	---	0.00192
110	110/115	35.269	1.53	0.422	---	0.0125
111		---	---	ND	---	0.00198
112		---	---	ND	---	0.00171
113	90/101/113	33.212	1.49	(0.328)	---	0.0115
114		---	---	ND	---	0.00221
115	110/115	35.269	1.53	(0.422)	---	0.0125
116	85/116/117	35.114	1.57	(0.0547) J	---	0.00501
117	85/116/117	35.114	1.57	(0.0547) J	---	0.00501
118		38.382	1.59	0.203	---	0.00863
119	86/87/97/108/119/125	34.434	1.62	(0.192) J	---	0.0146
120		36.492	1.35	0.00265 J	---	0.00164
121		---	---	ND	---	0.00125
122		---	---	ND	---	0.00187
123		38.014	1.40	0.00303 J	---	0.00213
124	107/124	37.678	1.92	---	(0.00770)	0.00253
125	86/87/97/108/119/125	34.434	1.62	(0.192) J	---	0.0146
126		---	---	ND	---	0.00215
127		---	---	ND	---	0.00129
128	128/166	42.877	1.21	0.0482 J	---	0.00420
129	129/138/163	41.602	1.25	0.230	---	0.0106
130		40.948	1.23	0.0190 J	---	0.00211
131		38.030	1.16	0.00415 J	---	0.00272
132		38.483	1.19	0.0851	---	0.00397
133		39.003	1.22	0.00437 J	---	0.00257
134	134/143	37.410	1.31	0.0197 J	---	0.00386
135	135/151	36.229	1.20	0.0868	---	0.00501
136		33.707	1.29	0.0356 J	---	0.00276
137		41.149	1.51	---	0.0117	0.00248
138	129/138/163	41.602	1.25	(0.230)	---	0.0106
139	139/140	37.829	1.23	0.00563 J	---	0.00424
140	139/140	37.829	1.23	(0.00563) J	---	0.00424
141		40.529	1.32	0.0319 J	---	0.00238
142		---	---	ND	---	0.00186
143	134/143	37.410	1.31	(0.0197) J	---	0.00386
144		36.801	1.23	0.0103 J	---	0.00201

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-OU4-202305
Lab Sample ID 40262368006
Filename P230529B_07

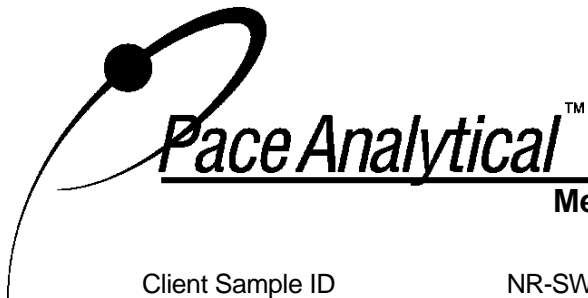
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
145		---	---	ND	---	0.00194
146		39.674	1.11	0.0331 J	---	0.00246
147	147/149	37.192	1.31	0.183	---	0.00867
148		---	---	ND	---	0.00226
149	147/149	37.192	1.31	(0.183)	---	0.00867
150		---	---	ND	---	0.00126
151	135/151	36.229	1.20	(0.0868)	---	0.00501
152		---	---	ND	---	0.00205
153	153/168	40.328	1.23	0.175	---	0.00745
154		36.553	1.04	---	IJ 0.00392	0.00169
155		---	---	ND	---	0.00148
156	156/157	45.850	1.34	0.0321 J	---	0.00430
157	156/157	45.850	1.34	(0.0321) J	---	0.00430
158		42.005	1.20	0.0223 J	---	0.00249
159		---	---	ND	---	0.00271
160		---	---	ND	---	0.00249
161		---	---	ND	---	0.00180
162		---	---	ND	---	0.00225
163	129/138/163	41.602	1.25	(0.230)	---	0.0106
164		41.283	1.06	0.0163 J	---	0.00234
165		---	---	ND	---	0.00200
166	128/166	42.877	1.21	(0.0482) J	---	0.00420
167		44.659	1.68	---	IJ 0.00862	0.00207
168	153/168	40.328	1.23	(0.175)	---	0.00745
169		---	---	ND	---	0.00155
170		48.550	1.34	---	IJ 0.0189	0.00480
171	171/173	44.961	1.43	---	IJ 0.00609	0.00587
172		---	---	ND	---	0.0136
173	171/173	44.961	1.43	---	IJ (0.00609)	0.00587
174		43.854	1.17	0.0197 J	---	0.00309
175		---	---	ND	---	0.00146
176		---	---	ND	---	0.00217
177		44.290	1.39	---	IJ 0.00976	0.00324
178		42.038	1.13	0.00474 J	---	0.00219
179		39.271	1.18	0.00902 J	---	0.00234
180	180/193	47.258	1.00	0.0344 J	---	0.00555
181		---	---	ND	---	0.00265
182		---	---	ND	---	0.00249
183	183/185	43.637	1.11	0.0116 J	---	0.00549
184		---	---	ND	---	0.00201
185	183/185	43.637	1.11	(0.0116) J	---	0.00549
186		---	---	ND	---	0.00152
187		42.977	1.12	0.0205 J	---	0.00317
188		---	---	ND	---	0.00240
189		---	---	ND	---	0.00209
190		49.086	1.35	---	IJ 0.00356	0.00246
191		---	---	ND	---	0.00211
192		---	---	ND	---	0.00240

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REPORT OF LABORATORY ANALYSIS

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-OU4-202305
Lab Sample ID 40262368006
Filename P230529B_07

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	47.258	1.00	(0.0344) J	---	0.00555
194		53.853	1.22	--- IJ	0.00359	0.00181
195		51.482	0.89	0.00271 J	---	0.00167
196		49.975	0.95	0.00276 J	---	0.00169
197	197/200	---	---	ND	---	0.00457
198	198/199	49.237	0.96	0.00638 J	---	0.00274
199	198/199	49.237	0.96	(0.00638) J	---	0.00274
200	197/200	---	---	ND	---	0.00457
201		---	---	ND	---	0.00140
202		---	---	ND	---	0.00225
203		50.109	0.57	--- IJ	0.00326	0.00176
204		---	---	ND	---	0.00163
205		---	---	ND	---	0.00192
206		---	---	ND	---	0.00372
207		---	---	ND	---	0.00223
208		---	---	ND	---	0.00217
209		---	---	ND	---	0.0167

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

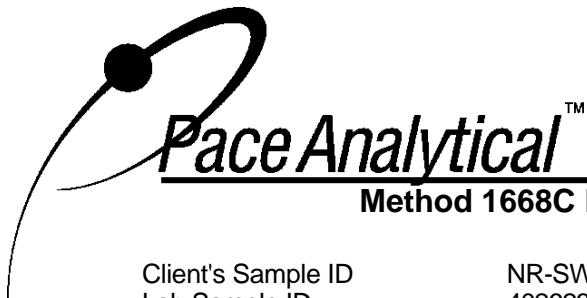
Client Sample ID NR-SW-OU4-202305
Lab Sample ID 40262368006
Filename P230529B_07

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	0.202 J
Total Tetrachloro Biphenyls	1.33 J
Total Pentachloro Biphenyls	2.04 J
Total Hexachloro Biphenyls	1.04 J
Total Heptachloro Biphenyls	0.0999 J
Total Octachloro Biphenyls	0.0118 J
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	4.72 J

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-BKG1-202305		
Lab Sample ID	40262368007		
Filename	P230529B_08		
Injected By	BAL		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	05/16/2023 14:10
ICAL ID	P230529B02	Received	05/20/2023 18:45
CCal Filename(s)	P230529B_01	Extracted	05/23/2023 12:15
Method Blank ID	BLANK-106282	Analyzed	05/29/2023 23:25

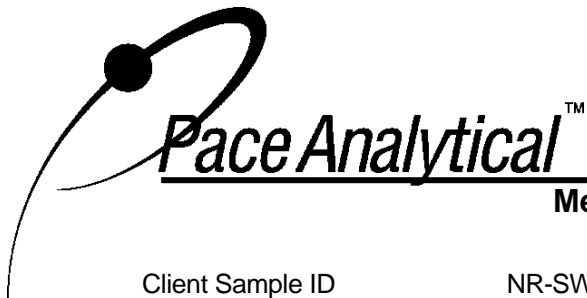
PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.182	2.99	2.0	1.67	84
13C-4-MoCB	3	12.998	2.96	2.0	1.80	90
13C-2,2'-DiCB	4	13.303	1.48	2.0	2.48	124
13C-4,4'-DiCB	15	20.404	1.57	2.0	1.85	93
13C-2,2',6-TrCB	19	17.143	1.03	2.0	2.54	127
13C-3,4,4'-TrCB	37	28.223	1.07	2.0	1.29	65
13C-2,2',6,6'-TeCB	54	20.766	0.78	2.0	1.65	82
13C-3,4,4',5-TeCB	81	35.377	0.78	2.0	1.40	70
13C-3,3',4,4'-TeCB	77	35.950	0.75	2.0	1.34	67
13C-2,2',4,6,6'-PeCB	104	26.908	1.52	2.0	1.77	88
13C-2,3,3',4,4'-PeCB	105	39.572	1.55	2.0	1.15	57
13C-2,3,4,4',5-PeCB	114	38.918	1.51	2.0	1.11	55
13C-2,3',4,4',5-PeCB	118	38.365	1.59	2.0	1.15	57
13C-2,3',4,4',5'-PeCB	123	38.030	1.54	2.0	1.14	57
13C-3,3',4,4',5-PeCB	126	42.742	1.58	2.0	0.973	49
13C-2,2',4,4',6,6'-HxCB	155	32.995	1.25	2.0	2.32	116
13C-HxCB (156/157)	156/157	45.816	1.27	4.0	2.24	56
13C-2,3',4,4',5,5'-HxCB	167	44.659	1.26	2.0	1.16	58
13C-3,3',4,4',5,5'-HxCB	169	49.119	1.26	2.0	1.25	63
13C-2,2',3,4',5,6,6'-HpCB	188	38.918	1.03	2.0	2.49	125
13C-2,3,3',4,4',5,5'-HpCB	189	51.697	1.04	2.0	1.51	75
13C-2,2',3,3',5,5',6,6'-OxCB	202	44.407	0.89	2.0	1.91	95
13C-2,3,3',4,4',5,5',6-OxCB	205	54.305	0.88	2.0	1.81	90
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.051	0.79	2.0	2.02	101
13C-2,2',3,3',4,4',5,5',6,6'-NoCB	208	51.223	0.78	2.0	2.27	113
13C-DeCB	209	57.689	0.71	2.0	2.08	104
CleanupStandards						
13C-2,4,4'-TrCB	28	23.860	1.04	2.0	1.32	66
13C-2,3,3',5,5'-PeCB	111	35.996	1.55	2.0	1.60	80
13C-2,2',3,3',5,5',6-HpCB	178	42.037	1.07	2.0	1.90	95
Recovery Standards						
13C-2,5-DiCB	9	15.773	1.54	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.856	0.79	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.196	1.56	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.568	1.22	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OxCB	194	53.810	0.88	2.0	NA	NA

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-BKG1-202305
Lab Sample ID 40262368007
Filename P230529B_08

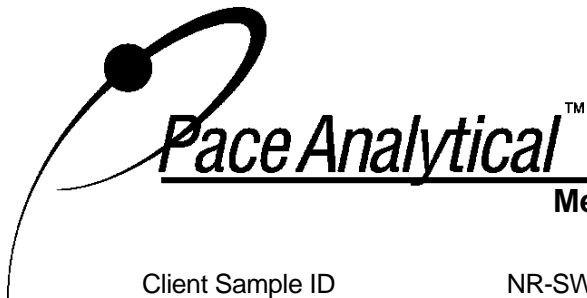
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.00540
2		---	---	ND	---	0.00491
3		---	---	ND	---	0.00426
4		---	---	ND	---	0.00727
5		---	---	ND	---	0.00177
6		---	---	ND	---	0.00907
7		---	---	ND	---	0.00900
8		---	---	ND	---	0.0119
9		---	---	ND	---	0.00238
10		---	---	ND	---	0.00282
11		---	---	ND	---	0.140
12	12/13	---	---	ND	---	0.00509
13	12/13	---	---	ND	---	0.00509
14		---	---	ND	---	0.00170
15		---	---	ND	---	0.00584
16		---	---	ND	---	0.00596
17		19.851	1.37	--- IJ	0.00985	0.00499
18	18/30	---	---	ND	---	0.0110
19		---	---	ND	---	0.00807
20	20/28	23.891	1.11	0.0378 J	---	0.0176
21	21/33	---	---	ND	---	0.0127
22		---	---	ND	---	0.00733
23		---	---	ND	---	0.00154
24		---	---	ND	---	0.00185
25		23.180	1.10	0.00576 J	---	0.00277
26	26/29	22.948	1.10	0.00809 J	---	0.00443
27		---	---	ND	---	0.00195
28	20/28	23.891	1.11	(0.0378) J	---	0.0176
29	26/29	22.948	1.10	(0.00809) J	---	0.00443
30	18/30	---	---	ND	---	0.0110
31		---	---	ND	---	0.0170
32		20.983	0.90	0.0212 J	---	0.00708
33	21/33	---	---	ND	---	0.0127
34		---	---	ND	---	0.00157
35		---	---	ND	---	0.00310
36		---	---	ND	---	0.00195
37		---	---	ND	---	0.00408
38		---	---	ND	---	0.00144
39		---	---	ND	---	0.00159
40	40/41/71	28.084	0.74	0.0355 J	---	0.00785
41	40/41/71	28.084	0.74	(0.0355) J	---	0.00785
42		27.558	0.75	0.0234 J	---	0.00426
43	43/73	---	---	ND	---	0.00379
44	44/47/65	27.032	0.81	0.117	---	0.0181
45	45/51	24.077	0.84	0.0314 J	---	0.00557
46		24.324	0.74	0.0137 J	---	0.00221
47	44/47/65	27.032	0.81	(0.117)	---	0.0181
48		---	---	ND	---	0.00282

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-BKG1-202305
Lab Sample ID 40262368007
Filename P230529B_08

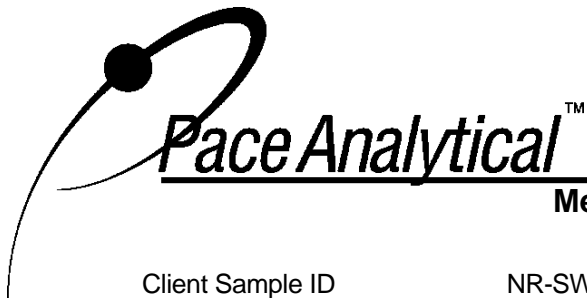
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	26.428	0.79	0.111	---	0.00654
50	50/53	23.226	0.76	0.0488 J	---	0.00368
51	45/51	24.077	0.84	(0.0314) J	---	0.00557
52		25.872	0.79	0.0942 J	---	0.0161
53	50/53	23.226	0.76	(0.0488) J	---	0.00368
54		20.797	0.78	0.00256 J	---	0.00156
55		---	---	ND	---	0.00209
56		---	---	ND	---	0.00981
57		---	---	ND	---	0.00145
58		---	---	ND	---	0.00184
59	59/62/75	27.357	0.87	0.00423 J	---	0.00402
60		---	---	ND	---	0.00333
61	61/70/74/76	31.014	0.70	0.0363 J	---	0.0311
62	59/62/75	27.357	0.87	(0.00423) J	---	0.00402
63		30.674	0.79	0.00407 J	---	0.00169
64		28.316	0.93	---	0.00744	0.00544
65	44/47/65	27.032	0.81	(0.117)	---	0.0181
66		31.401	0.69	0.0346 J	---	0.0213
67		---	---	ND	---	0.00219
68		29.529	0.63	---	0.00297	0.00244
69	49/69	26.428	0.79	(0.111)	---	0.00654
70	61/70/74/76	31.014	0.70	(0.0363) J	---	0.0311
71	40/41/71	28.084	0.74	(0.0355) J	---	0.00785
72		29.220	1.07	---	0.00280	0.00171
73	43/73	---	---	ND	---	0.00379
74	61/70/74/76	31.014	0.70	(0.0363) J	---	0.0311
75	59/62/75	27.357	0.87	(0.00423) J	---	0.00402
76	61/70/74/76	31.014	0.70	(0.0363) J	---	0.0311
77		---	---	ND	---	0.00257
78		---	---	ND	---	0.00224
79		---	---	ND	---	0.00226
80		---	---	ND	---	0.00207
81		---	---	ND	---	0.00173
82		35.625	1.32	0.00884 J	---	0.00250
83		33.707	1.08	---	0.00668	0.00232
84		31.247	1.72	0.0318 J	---	0.0129
85	85/116/117	35.114	1.43	0.0237 J	---	0.00505
86	86/87/97/108/119/125	34.372	1.49	0.0753 J	---	0.0148
87	86/87/97/108/119/125	34.372	1.49	(0.0753) J	---	0.0148
88	88/91	31.030	1.32	0.0289 J	---	0.00480
89		---	---	ND	---	0.00304
90	90/101/113	33.227	1.46	0.124	---	0.0116
91	88/91	31.030	1.32	(0.0289) J	---	0.00480
92		32.592	1.50	0.0378 J	---	0.00381
93	93/98/100/102	30.488	1.56	0.00904 J	---	0.00549
94		29.638	1.27	---	0.00302	0.00184
95		30.101	1.52	0.101 J	---	0.00845
96		---	---	ND	---	0.00306

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-BKG1-202305
Lab Sample ID 40262368007
Filename P230529B_08

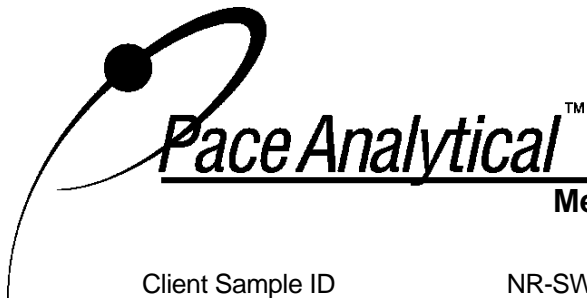
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	34.372	1.49	(0.0753) J	---	0.0148
98	93/98/100/102	30.488	1.56	(0.00904) J	---	0.00549
99		33.830	1.43	0.0663	---	0.00575
100	93/98/100/102	30.488	1.56	(0.00904) J	---	0.00549
101	90/101/113	33.227	1.46	(0.124)	---	0.0116
102	93/98/100/102	30.488	1.56	(0.00904) J	---	0.00549
103		29.405	1.47	0.00253 J	---	0.00190
104		---	---	ND	---	0.00148
105		39.606	1.49	0.0307 J	---	0.00551
106		---	---	ND	---	0.00173
107	107/124	37.678	1.04	---	0.00308	0.00255
108	86/87/97/108/119/125	34.372	1.49	(0.0753) J	---	0.0148
109		37.929	1.55	0.00902 J	---	0.00193
110	110/115	35.269	1.53	0.161	---	0.0126
111		---	---	ND	---	0.00199
112		---	---	ND	---	0.00172
113	90/101/113	33.227	1.46	(0.124)	---	0.0116
114		---	---	ND	---	0.00222
115	110/115	35.269	1.53	(0.161)	---	0.0126
116	85/116/117	35.114	1.43	(0.0237) J	---	0.00505
117	85/116/117	35.114	1.43	(0.0237) J	---	0.00505
118		38.382	1.46	0.0871	---	0.00871
119	86/87/97/108/119/125	34.372	1.49	(0.0753) J	---	0.0148
120		---	---	ND	---	0.00166
121		---	---	ND	---	0.00127
122		---	---	ND	---	0.00189
123		38.013	1.70	0.00277 J	---	0.00215
124	107/124	37.678	1.04	---	(0.00308)	0.00255
125	86/87/97/108/119/125	34.372	1.49	(0.0753) J	---	0.0148
126		---	---	ND	---	0.00217
127		---	---	ND	---	0.00130
128	128/166	42.876	1.19	0.0208 J	---	0.00424
129	129/138/163	41.602	1.15	0.111 J	---	0.0106
130		40.914	1.17	0.00948 J	---	0.00213
131		---	---	ND	---	0.00275
132		38.466	1.20	0.0363 J	---	0.00400
133		---	---	ND	---	0.00259
134	134/143	37.443	1.14	0.00796 J	---	0.00389
135	135/151	36.259	1.28	0.0329 J	---	0.00505
136		33.737	1.34	0.0130 J	---	0.00279
137		41.166	1.48	---	0.00715	0.00250
138	129/138/163	41.602	1.15	(0.111) J	---	0.0106
139	139/140	---	---	ND	---	0.00428
140	139/140	---	---	ND	---	0.00428
141		40.545	1.15	0.0157 J	---	0.00240
142		---	---	ND	---	0.00188
143	134/143	37.443	1.14	(0.00796) J	---	0.00389
144		36.847	1.50	---	0.00297	0.00203

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-BKG1-202305
Lab Sample ID 40262368007
Filename P230529B_08

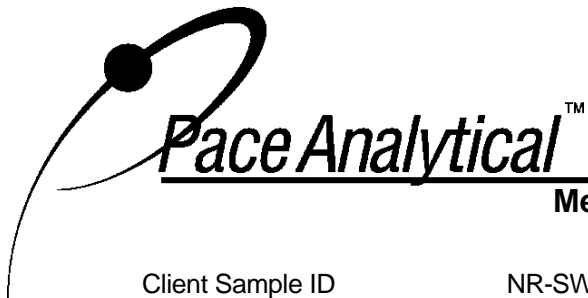
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
145		---	---	ND	---	0.00195
146		39.690	1.31	0.0135 J	---	0.00248
147	147/149	37.208	1.31	0.0795	---	0.00874
148		---	---	ND	---	0.00228
149	147/149	37.208	1.31	(0.0795)	---	0.00874
150		---	---	ND	---	0.00127
151	135/151	36.259	1.28	(0.0329) J	---	0.00505
152		---	---	ND	---	0.00207
153	153/168	40.327	1.17	0.0729 J	---	0.00751
154		---	---	ND	---	0.00171
155		---	---	ND	---	0.00150
156	156/157	45.783	1.17	0.0156 J	---	0.00433
157	156/157	45.783	1.17	(0.0156) J	---	0.00433
158		42.004	1.17	0.0113 J	---	0.00252
159		---	---	ND	---	0.00273
160		---	---	ND	---	0.00252
161		---	---	ND	---	0.00181
162		---	---	ND	---	0.00226
163	129/138/163	41.602	1.15	(0.111) J	---	0.0106
164		41.266	1.42	0.00687 J	---	0.00236
165		---	---	ND	---	0.00201
166	128/166	42.876	1.19	(0.0208) J	---	0.00424
167		44.692	1.17	0.00555 J	---	0.00209
168	153/168	40.327	1.17	(0.0729) J	---	0.00751
169		---	---	ND	---	0.00156
170		48.533	1.31	---	0.00954	0.00484
171	171/173	---	---	ND	---	0.00592
172		---	---	ND	---	0.0137
173	171/173	---	---	ND	---	0.00592
174		43.871	1.08	0.00958 J	---	0.00311
175		---	---	ND	---	0.00148
176		---	---	ND	---	0.00219
177		44.340	0.93	0.00544 J	---	0.00327
178		---	---	ND	---	0.00221
179		39.271	0.93	0.00398 J	---	0.00236
180	180/193	47.258	0.99	0.0175 J	---	0.00559
181		---	---	ND	---	0.00267
182		---	---	ND	---	0.00252
183	183/185	43.636	0.89	0.00567 J	---	0.00553
184		---	---	ND	---	0.00203
185	183/185	43.636	0.89	(0.00567) J	---	0.00553
186		---	---	ND	---	0.00153
187		43.010	0.96	0.00883 J	---	0.00319
188		---	---	ND	---	0.00242
189		---	---	ND	---	0.00211
190		---	---	ND	---	0.00248
191		---	---	ND	---	0.00213
192		---	---	ND	---	0.00242

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-BKG1-202305
Lab Sample ID 40262368007
Filename P230529B_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	47.258	0.99	(0.0175) J	---	0.00559
194		---	---	ND	---	0.00183
195		---	---	ND	---	0.00168
196		---	---	ND	---	0.00170
197	197/200	---	---	ND	---	0.00460
198	198/199	49.237	0.97	0.00315 J	---	0.00277
199	198/199	49.237	0.97	(0.00315) J	---	0.00277
200	197/200	---	---	ND	---	0.00460
201		---	---	ND	---	0.00141
202		---	---	ND	---	0.00226
203		50.125	0.96	0.00196 J	---	0.00177
204		---	---	ND	---	0.00164
205		---	---	ND	---	0.00193
206		---	---	ND	---	0.00375
207		---	---	ND	---	0.00224
208		---	---	ND	---	0.00219
209		---	---	ND	---	0.0168

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

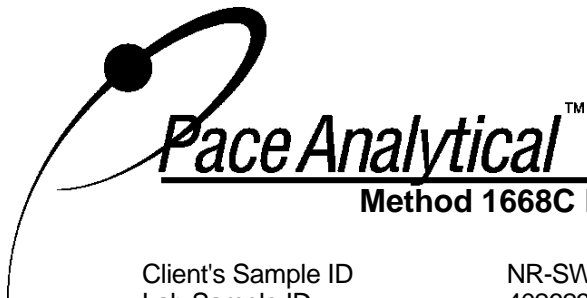
Client Sample ID NR-SW-BKG1-202305
Lab Sample ID 40262368007
Filename P230529B_08

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	0.0729 J
Total Tetrachloro Biphenyls	0.557 J
Total Pentachloro Biphenyls	0.799 J
Total Hexachloro Biphenyls	0.453 J
Total Heptachloro Biphenyls	0.0510 J
Total Octachloro Biphenyls	0.00510 J
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	1.94 J

ND = Not Detected

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-OU3-202305		
Lab Sample ID	40262368008		
Filename	P230529B_09		
Injected By	BAL		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	05/16/2023 15:10
ICAL ID	P230529B02	Received	05/20/2023 18:45
CCal Filename(s)	P230529B_01	Extracted	05/23/2023 12:15
Method Blank ID	BLANK-106282	Analyzed	05/30/2023 00:28

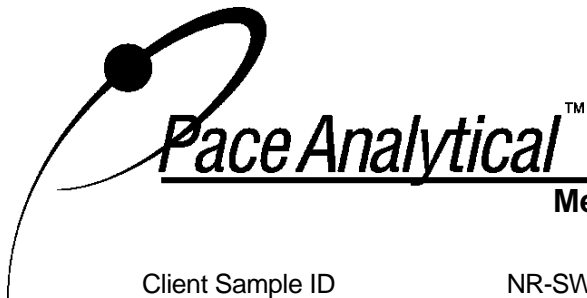
PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.137	2.99	2.0	1.48	74
13C-4-MoCB	3	12.964	3.09	2.0	1.61	80
13C-2,2'-DiCB	4	13.269	1.56	2.0	2.23	112
13C-4,4'-DiCB	15	20.404	1.56	2.0	1.80	90
13C-2,2',6-TrCB	19	17.122	1.02	2.0	2.23	112
13C-3,4,4'-TrCB	37	28.208	1.01	2.0	1.32	66
13C-2,2',6,6'-TeCB	54	20.751	0.78	2.0	1.52	76
13C-3,4,4',5-TeCB	81	35.362	0.79	2.0	1.38	69
13C-3,3',4,4'-TeCB	77	35.934	0.80	2.0	1.32	66
13C-2,2',4,6,6'-PeCB	104	26.909	1.58	2.0	1.82	91
13C-2,3,3',4,4'-PeCB	105	39.556	1.62	2.0	1.09	55
13C-2,3,4,4',5-PeCB	114	38.918	1.57	2.0	1.11	56
13C-2,3',4,4',5-PeCB	118	38.348	1.58	2.0	1.12	56
13C-2,3',4,4',5'-PeCB	123	38.013	1.56	2.0	1.11	55
13C-3,3',4,4',5-PeCB	126	42.725	1.50	2.0	0.910	46
13C-2,2',4,4',6,6'-HxCB	155	32.979	1.23	2.0	2.47	124
13C-HxCB (156/157)	156/157	45.816	1.23	4.0	2.22	55
13C-2,3',4,4',5,5'-HxCB	167	44.642	1.27	2.0	1.17	58
13C-3,3',4,4',5,5'-HxCB	169	49.103	1.24	2.0	1.25	62
13C-2,2',3,4',5,6,6'-HpCB	188	38.918	1.02	2.0	2.33	116
13C-2,3,3',4,4',5,5'-HpCB	189	51.676	1.04	2.0	1.49	74
13C-2,2',3,3',5,5',6,6'-OxCB	202	44.407	0.91	2.0	1.71	85
13C-2,3,3',4,4',5,5',6-OxCB	205	54.284	0.90	2.0	1.80	90
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.051	0.80	2.0	2.04	102
13C-2,2',3,3',4,4',5,5',6,6'-NoCB	208	51.201	0.80	2.0	2.18	109
13C-DeCB	209	57.689	0.74	2.0	2.11	105
CleanupStandards						
13C-2,4,4'-TrCB	28	23.845	1.04	2.0	1.28	64
13C-2,3,3',5,5'-PeCB	111	35.981	1.53	2.0	1.57	78
13C-2,2',3,3',5,5',6-HpCB	178	42.021	1.06	2.0	1.94	97
Recovery Standards						
13C-2,5-DiCB	9	15.751	1.56	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.841	0.78	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.181	1.53	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.568	1.25	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OxCB	194	53.810	0.90	2.0	NA	NA

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-OU3-202305
Lab Sample ID 40262368008
Filename P230529B_09

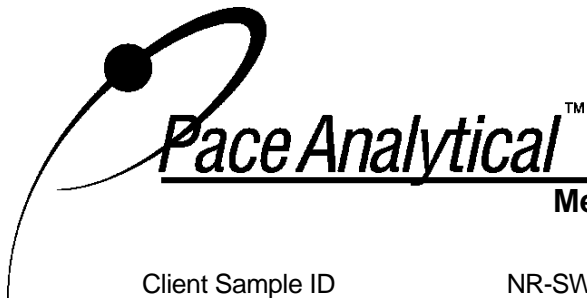
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		10.159	2.89	0.225	---	0.00540
2		---	---	ND	---	0.00492
3		12.986	1.30	---	0.0184	0.00426
4		13.292	1.43	1.24	---	0.00728
5		16.635	0.50	---	0.00349	0.00177
6		16.259	1.51	0.175	---	0.00908
7		15.983	1.53	0.0738	---	0.00900
8		16.790	1.40	0.0883	---	0.0119
9		15.773	1.45	0.0300	J	0.00238
10		13.529	1.63	0.0195	J	0.00283
11		---	---	ND	---	0.141
12	12/13	20.017	1.48	0.0108	J	0.00509
13	12/13	20.017	1.48	(0.0108)	J	0.00509
14		---	---	ND	---	0.00170
15		20.404	1.50	0.108	---	0.00585
16		20.360	0.96	0.0436	---	0.00596
17		19.851	0.99	1.08	---	0.00500
18	18/30	19.365	1.01	0.275	---	0.0110
19		17.143	1.03	0.935	---	0.00807
20	20/28	23.861	0.99	0.450	---	0.0176
21	21/33	24.124	1.00	0.0328	J	0.0127
22		24.573	1.03	0.0295	J	0.00734
23		---	---	ND	---	0.00154
24		---	---	ND	---	0.00185
25		23.180	1.03	0.641	---	0.00277
26	26/29	22.917	1.05	1.22	---	0.00443
27		20.084	1.00	0.130	---	0.00196
28	20/28	23.861	0.99	(0.450)	---	0.0176
29	26/29	22.917	1.05	(1.22)	---	0.00443
30	18/30	19.365	1.01	(0.275)	---	0.0110
31		23.536	1.02	0.230	---	0.0171
32		20.968	1.02	0.444	---	0.00709
33	21/33	24.124	1.00	(0.0328)	J	0.0127
34		22.422	1.14	0.0264	J	0.00157
35		27.790	0.92	0.00465	J	0.00310
36		---	---	ND	---	0.00196
37		28.254	1.19	0.0224	J	0.00409
38		---	---	ND	---	0.00144
39		---	---	ND	---	0.00159
40	40/41/71	28.069	0.77	0.913	---	0.00786
41	40/41/71	28.069	0.77	(0.913)	---	0.00786
42		27.527	0.79	0.509	---	0.00426
43	43/73	26.042	0.74	0.172	---	0.00379
44	44/47/65	27.017	0.77	2.73	---	0.0181
45	45/51	24.046	0.75	0.725	---	0.00558
46		24.294	0.74	0.224	---	0.00221
47	44/47/65	27.017	0.77	(2.73)	---	0.0181
48		26.723	0.85	0.0166	J	0.00283

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-OU3-202305
Lab Sample ID 40262368008
Filename P230529B_09

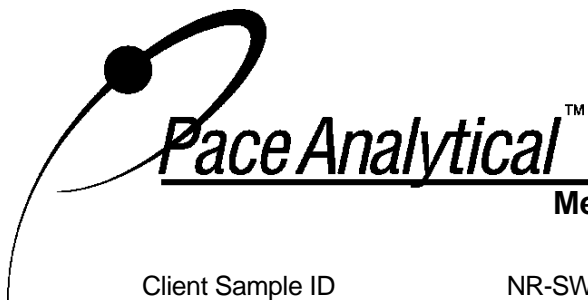
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	26.413	0.78	3.84	---	0.00654
50	50/53	23.211	0.77	0.982	---	0.00368
51	45/51	24.046	0.75	(0.725)	---	0.00558
52		25.872	0.78	5.10	---	0.0161
53	50/53	23.211	0.77	(0.982)	---	0.00368
54		20.767	0.79	0.0849	---	0.00156
55		---	---	ND	---	0.00209
56		32.097	0.73	0.0926	---	0.00982
57		29.978	0.77	0.173	---	0.00146
58		30.226	0.81	0.0216 J	---	0.00185
59	59/62/75	27.388	0.75	0.163	---	0.00403
60		32.330	0.71	0.0113 J	---	0.00333
61	61/70/74/76	30.999	0.77	0.865	---	0.0312
62	59/62/75	27.388	0.75	(0.163)	---	0.00403
63		30.690	0.84	0.0958	---	0.00169
64		28.301	0.78	0.323	---	0.00544
65	44/47/65	27.017	0.77	(2.73)	---	0.0181
66		31.386	0.73	0.636	---	0.0213
67		30.396	0.80	0.0627	---	0.00219
68		29.514	0.87	0.128	---	0.00244
69	49/69	26.413	0.78	(3.84)	---	0.00654
70	61/70/74/76	30.999	0.77	(0.865)	---	0.0312
71	40/41/71	28.069	0.77	(0.913)	---	0.00786
72		29.205	0.76	0.178	---	0.00172
73	43/73	26.042	0.74	(0.172)	---	0.00379
74	61/70/74/76	30.999	0.77	(0.865)	---	0.0312
75	59/62/75	27.388	0.75	(0.163)	---	0.00403
76	61/70/74/76	30.999	0.77	(0.865)	---	0.0312
77		35.950	0.72	0.0351 J	---	0.00258
78		---	---	ND	---	0.00225
79		34.341	0.67	0.0276 J	---	0.00227
80		---	---	ND	---	0.00207
81		35.347	0.80	0.00194 J	---	0.00173
82		35.594	1.55	0.126	---	0.00250
83		33.691	1.51	0.345	---	0.00232
84		31.247	1.50	0.864	---	0.0129
85	85/116/117	35.099	1.60	0.446	---	0.00505
86	86/87/97/108/119/125	34.341	1.51	1.57	---	0.0148
87	86/87/97/108/119/125	34.341	1.51	(1.57)	---	0.0148
88	88/91	31.030	1.56	0.832	---	0.00480
89		31.742	1.79	---	IJ	0.0127
90	90/101/113	33.211	1.53	2.85	---	0.0116
91	88/91	31.030	1.56	(0.832)	---	0.00480
92		32.593	1.50	1.52	---	0.00381
93	93/98/100/102	30.365	1.52	0.315	---	0.00550
94		29.622	1.56	0.158	---	0.00184
95		30.086	1.53	2.86	---	0.00846
96		27.311	1.41	0.0529	---	0.00306

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Method 1668C Polychlorobiphenyl Sample Analysis Results

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Lab Sample ID 40262368008
Filename P230529B_09

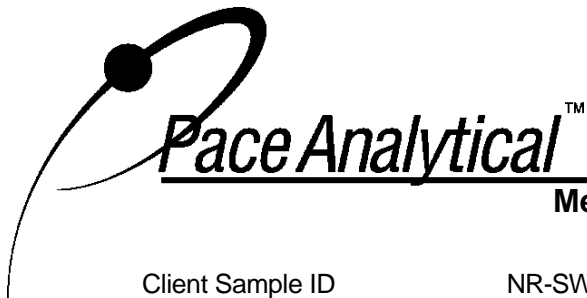
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	34.341	1.51	(1.57)	---	0.0148
98	93/98/100/102	30.365	1.52	(0.315)	---	0.00550
99		33.830	1.56	1.31	---	0.00575
100	93/98/100/102	30.365	1.52	(0.315)	---	0.00550
101	90/101/113	33.211	1.53	(2.85)	---	0.0116
102	93/98/100/102	30.365	1.52	(0.315)	---	0.00550
103		29.406	1.56	0.122	---	0.00191
104		26.924	1.49	0.00532 J	---	0.00149
105		39.590	1.51	0.472	---	0.00552
106		---	---	ND	---	0.00173
107	107/124	37.678	1.50	0.0611 J	---	0.00256
108	86/87/97/108/119/125	34.341	1.51	(1.57)	---	0.0148
109		37.929	1.51	0.245	---	0.00194
110	110/115	35.269	1.55	4.27	---	0.0126
111		35.996	1.63	0.0146 J	---	0.00199
112		---	---	ND	---	0.00172
113	90/101/113	33.211	1.53	(2.85)	---	0.0116
114		38.918	1.76	0.0122 J	---	0.00223
115	110/115	35.269	1.55	(4.27)	---	0.0126
116	85/116/117	35.099	1.60	(0.446)	---	0.00505
117	85/116/117	35.099	1.60	(0.446)	---	0.00505
118		38.382	1.51	1.58	---	0.00871
119	86/87/97/108/119/125	34.341	1.51	(1.57)	---	0.0148
120		36.491	1.56	0.0306 J	---	0.00166
121		32.221	1.30	---	0.00721 IJ	0.00127
122		38.734	1.51	0.0152 J	---	0.00189
123		38.047	1.49	0.0236 J	---	0.00215
124	107/124	37.678	1.50	(0.0611) J	---	0.00256
125	86/87/97/108/119/125	34.341	1.51	(1.57)	---	0.0148
126		42.742	1.33	0.00696 J	---	0.00217
127		---	---	ND	---	0.00130
128	128/166	42.876	1.31	0.353	---	0.00424
129	129/138/163	41.585	1.25	1.97	---	0.0106
130		40.914	1.24	0.186	---	0.00213
131		38.030	0.95	---	0.0240 IJ	0.00275
132		38.483	1.18	0.912	---	0.00401
133		39.002	1.37	0.0813	---	0.00259
134	134/143	37.410	1.27	0.205	---	0.00389
135	135/151	36.228	1.28	1.02	---	0.00505
136		33.722	1.18	0.401	---	0.00279
137		41.149	1.17	0.0997	---	0.00250
138	129/138/163	41.585	1.25	(1.97)	---	0.0106
139	139/140	37.828	1.24	0.0578 J	---	0.00428
140	139/140	37.828	1.24	(0.0578) J	---	0.00428
141		40.512	1.25	0.226	---	0.00240
142		---	---	ND	---	0.00188
143	134/143	37.410	1.27	(0.205)	---	0.00389
144		36.832	1.17	0.0565	---	0.00203

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REPORT OF LABORATORY ANALYSIS

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-OU3-202305
Lab Sample ID 40262368008
Filename P230529B_09

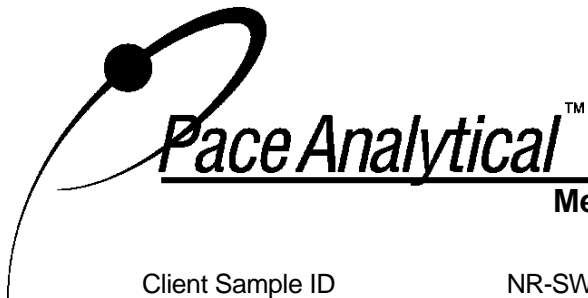
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
145		---	---	ND	---	0.00196
146		39.673	1.29	0.368	---	0.00248
147	147/149	37.191	1.22	2.06	---	0.00875
148		35.656	1.27	0.0176 J	---	0.00228
149	147/149	37.191	1.22	(2.06)	---	0.00875
150		33.351	1.23	0.0146 J	---	0.00127
151	135/151	36.228	1.28	(1.02)	---	0.00505
152		33.211	1.32	0.00960 J	---	0.00207
153	153/168	40.311	1.27	1.35	---	0.00751
154		36.538	1.34	0.0743	---	0.00171
155		---	---	ND	---	0.00150
156	156/157	45.833	1.22	0.263	---	0.00434
157	156/157	45.833	1.22	(0.263)	---	0.00434
158		42.004	1.26	0.165	---	0.00252
159		43.837	1.07	0.00890 J	---	0.00273
160		---	---	ND	---	0.00252
161		---	---	ND	---	0.00182
162		44.156	1.16	0.00766 J	---	0.00227
163	129/138/163	41.585	1.25	(1.97)	---	0.0106
164		41.266	1.27	0.136	---	0.00236
165		39.388	1.55	---	0.00686	0.00201
166	128/166	42.876	1.31	(0.353)	---	0.00424
167		44.659	1.14	0.0842	---	0.00209
168	153/168	40.311	1.27	(1.35)	---	0.00751
169		---	---	ND	---	0.00156
170		48.533	1.03	0.249	---	0.00484
171	171/173	44.961	1.04	0.0829	---	0.00592
172		46.587	0.99	0.0473	---	0.0137
173	171/173	44.961	1.04	(0.0829)	---	0.00592
174		43.837	1.07	0.227	---	0.00312
175		42.708	1.18	0.0116 J	---	0.00148
176		40.160	1.03	0.0392	---	0.00219
177		44.290	1.08	0.194	---	0.00327
178		42.038	0.93	0.0913	---	0.00221
179		39.254	1.01	0.153	---	0.00236
180	180/193	47.258	1.01	0.423	---	0.00560
181		44.726	1.03	0.00509 J	---	0.00267
182		43.195	1.05	0.00306 J	---	0.00252
183	183/185	43.636	1.05	0.144	---	0.00554
184		---	---	ND	---	0.00203
185	183/185	43.636	1.05	(0.144)	---	0.00554
186		---	---	ND	---	0.00153
187		42.977	1.04	0.349	---	0.00319
188		---	---	ND	---	0.00242
189		51.697	1.02	0.0109 J	---	0.00211
190		49.069	0.98	0.0539	---	0.00248
191		47.593	1.08	0.00974 J	---	0.00213
192		---	---	ND	---	0.00242

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-OU3-202305
Lab Sample ID 40262368008
Filename P230529B_09

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	47.258	1.01	(0.423)	---	0.00560
194		53.831	0.86	0.0966	---	0.00183
195		51.482	1.01	0.0410	---	0.00168
196		49.924	0.89	0.0510	---	0.00170
197	197/200	46.419	1.10	--- IJ	0.0183	0.00461
198	198/199	49.237	0.82	0.135	---	0.00277
199	198/199	49.237	0.82	(0.135)	---	0.00277
200	197/200	46.419	1.10	--- IJ	(0.0183)	0.00461
201		45.380	0.70	--- IJ	0.0113	0.00141
202		44.441	0.88	0.0260 J	---	0.00227
203		50.125	0.94	0.0699	---	0.00178
204		---	---	ND	---	0.00165
205		54.284	0.97	0.00525 J	---	0.00194
206		56.073	0.93	--- IJ	0.0302	0.00376
207		52.193	0.70	0.00517 J	---	0.00225
208		51.201	0.56	--- IJ	0.00559	0.00219
209		---	---	ND	---	0.0168

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

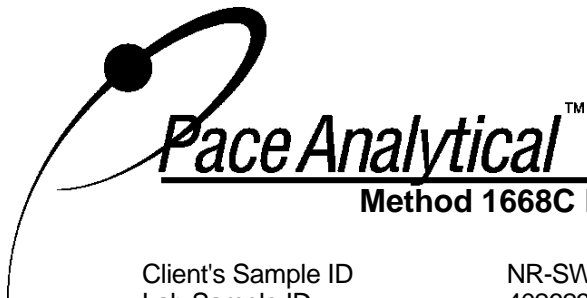
Client Sample ID NR-SW-OU3-202305
Lab Sample ID 40262368008
Filename P230529B_09

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	0.225
Total Dichloro Biphenyls	1.74 J
Total Trichloro Biphenyls	5.57 J
Total Tetrachloro Biphenyls	18.1 J
Total Pentachloro Biphenyls	20.1 J
Total Hexachloro Biphenyls	10.1 J
Total Heptachloro Biphenyls	2.09 J
Total Octachloro Biphenyls	0.425 J
Total Nonachloro Biphenyls	0.00517 J
Decachloro Biphenyls	ND
Total PCBs	58.4 J

ND = Not Detected

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-OU2-202305		
Lab Sample ID	40262368009		
Filename	P230529B_10		
Injected By	BAL		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	05/16/2023 16:15
ICAL ID	P230529B02	Received	05/20/2023 18:45
CCal Filename(s)	P230529B_01	Extracted	05/23/2023 12:15
Method Blank ID	BLANK-106282	Analyzed	05/30/2023 01:31

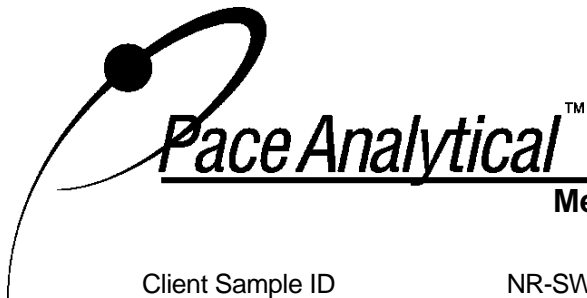
PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.159	2.87	2.0	1.58	79
13C-4-MoCB	3	12.975	3.04	2.0	1.67	84
13C-2,2'-DiCB	4	13.280	1.49	2.0	2.31	115
13C-4,4'-DiCB	15	20.404	1.52	2.0	1.75	87
13C-2,2',6-TrCB	19	17.132	0.98	2.0	2.39	120
13C-3,4,4'-TrCB	37	28.207	1.05	2.0	1.25	63
13C-2,2',6,6'-TeCB	54	20.750	0.80	2.0	1.50	75
13C-3,4,4',5-TeCB	81	35.361	0.77	2.0	1.35	68
13C-3,3',4,4'-TeCB	77	35.934	0.81	2.0	1.28	64
13C-2,2',4,6,6'-PeCB	104	26.908	1.57	2.0	1.82	91
13C-2,3,3',4,4'-PeCB	105	39.572	1.61	2.0	1.07	53
13C-2,3,4,4',5-PeCB	114	38.918	1.56	2.0	1.02	51
13C-2,3',4,4',5-PeCB	118	38.365	1.58	2.0	1.09	54
13C-2,3',4,4',5'-PeCB	123	38.029	1.61	2.0	1.08	54
13C-3,3',4,4',5-PeCB	126	42.742	1.49	2.0	0.901	45
13C-2,2',4,4',6,6'-HxCB	155	32.994	1.28	2.0	2.42	121
13C-HxCB (156/157)	156/157	45.816	1.29	4.0	2.10	52
13C-2,3',4,4',5,5'-HxCB	167	44.642	1.28	2.0	1.13	56
13C-3,3',4,4',5,5'-HxCB	169	49.102	1.27	2.0	1.21	60
13C-2,2',3,4',5,6,6'-HpCB	188	38.918	1.04	2.0	2.28	114
13C-2,3,3',4,4',5,5'-HpCB	189	51.697	1.06	2.0	1.37	69
13C-2,2',3,3',5,5',6,6'-OxCB	202	44.407	0.91	2.0	1.64	82
13C-2,3,3',4,4',5,5',6-OxCB	205	54.283	0.89	2.0	1.74	87
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.050	0.78	2.0	1.96	98
13C-2,2',3,3',4,4',5,5',6,6'-NoCB	208	51.201	0.79	2.0	2.04	102
13C-DeCB	209	57.689	0.68	2.0	2.13	106
CleanupStandards						
13C-2,4,4'-TrCB	28	23.845	1.03	2.0	1.16	58
13C-2,3,3',5,5'-PeCB	111	35.996	1.55	2.0	1.50	75
13C-2,2',3,3',5,5',6-HpCB	178	42.020	1.04	2.0	1.75	87
Recovery Standards						
13C-2,5-DiCB	9	15.762	1.54	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.856	0.80	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.195	1.58	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.568	1.24	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OxCB	194	53.809	0.87	2.0	NA	NA

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-OU2-202305
Lab Sample ID 40262368009
Filename P230529B_10

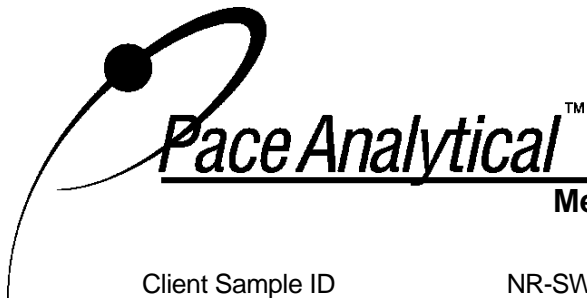
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		10.170	2.90	0.290	---	0.00535
2		---	---	ND	---	0.00487
3		12.986	2.04	---	0.0228	0.00422
4		13.303	1.47	1.81	---	0.00721
5		16.657	0.93	---	0.00604	0.00176
6		16.270	1.47	0.194	---	0.00899
7		15.993	1.58	0.0941	---	0.00891
8		16.800	1.53	0.161	---	0.0117
9		15.762	1.32	---	0.00919	0.00236
10		13.529	0.97	---	0.0106	0.00280
11		---	---	ND	---	0.139
12	12/13	20.017	1.61	0.0171	---	0.00504
13	12/13	20.017	1.61	(0.0171)	---	0.00504
14		---	---	ND	---	0.00168
15		20.426	1.60	0.244	---	0.00579
16		20.360	1.08	0.0798	---	0.00590
17		19.840	1.03	1.88	---	0.00495
18	18/30	19.365	1.02	0.323	---	0.0109
19		17.154	0.99	1.56	---	0.00799
20	20/28	23.860	1.02	0.753	---	0.0174
21	21/33	24.061	1.08	0.0369	---	0.0126
22		24.556	0.93	0.0574	---	0.00726
23		---	---	ND	---	0.00152
24		---	---	ND	---	0.00183
25		23.195	1.01	0.638	---	0.00274
26	26/29	22.916	0.99	1.24	---	0.00439
27		20.094	1.01	0.103	---	0.00194
28	20/28	23.860	1.02	(0.753)	---	0.0174
29	26/29	22.916	0.99	(1.24)	---	0.00439
30	18/30	19.365	1.02	(0.323)	---	0.0109
31		23.535	1.04	0.288	---	0.0169
32		20.983	1.01	0.784	---	0.00702
33	21/33	24.061	1.08	(0.0369)	---	0.0126
34		22.421	1.02	0.0220	---	0.00156
35		27.805	1.31	---	0.00479	0.00307
36		---	---	ND	---	0.00194
37		28.223	1.11	0.0443	---	0.00404
38		---	---	ND	---	0.00142
39		---	---	ND	---	0.00158
40	40/41/71	28.068	0.78	1.41	---	0.00778
41	40/41/71	28.068	0.78	(1.41)	---	0.00778
42		27.527	0.76	0.748	---	0.00422
43	43/73	26.042	0.74	0.237	---	0.00376
44	44/47/65	27.031	0.76	4.27	---	0.0179
45	45/51	24.061	0.78	1.25	---	0.00552
46		24.309	0.79	0.337	---	0.00219
47	44/47/65	27.031	0.76	(4.27)	---	0.0179
48		26.722	0.81	0.0395	---	0.00280

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-OU2-202305
Lab Sample ID 40262368009
Filename P230529B_10

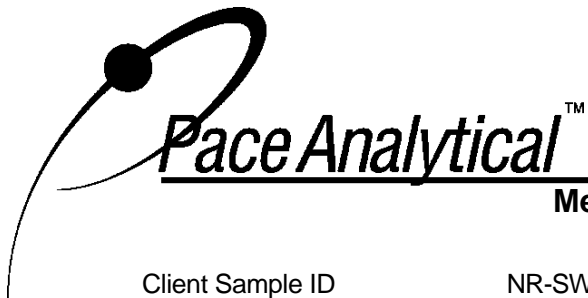
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	26.413	0.76	4.71	---	0.00648
50	50/53	23.210	0.77	1.32	---	0.00364
51	45/51	24.061	0.78	(1.25)	---	0.00552
52		25.871	0.77	6.03	---	0.0159
53	50/53	23.210	0.77	(1.32)	---	0.00364
54		20.766	0.74	0.144	---	0.00154
55		---	---	ND	---	0.00207
56		32.082	0.79	0.139	---	0.00972
57		29.962	0.74	0.158	---	0.00144
58		30.209	0.81	0.0373 J	---	0.00183
59	59/62/75	27.387	0.79	0.216	---	0.00399
60		32.298	1.02	---	0.0150 IJ	0.00330
61	61/70/74/76	31.014	0.79	1.44	---	0.0309
62	59/62/75	27.387	0.79	(0.216)	---	0.00399
63		30.689	0.79	0.142	---	0.00168
64		28.300	0.78	0.444	---	0.00539
65	44/47/65	27.031	0.76	(4.27)	---	0.0179
66		31.385	0.76	1.11	---	0.0211
67		30.411	0.79	0.0753	---	0.00217
68		29.529	0.78	0.163	---	0.00242
69	49/69	26.413	0.76	(4.71)	---	0.00648
70	61/70/74/76	31.014	0.79	(1.44)	---	0.0309
71	40/41/71	28.068	0.78	(1.41)	---	0.00778
72		29.204	0.77	0.204	---	0.00170
73	43/73	26.042	0.74	(0.237)	---	0.00376
74	61/70/74/76	31.014	0.79	(1.44)	---	0.0309
75	59/62/75	27.387	0.79	(0.216)	---	0.00399
76	61/70/74/76	31.014	0.79	(1.44)	---	0.0309
77		35.965	0.83	0.0601	---	0.00255
78		---	---	ND	---	0.00222
79		34.371	0.79	0.0621	---	0.00224
80		---	---	ND	---	0.00205
81		35.346	0.84	0.00429 J	---	0.00171
82		35.609	1.61	0.184	---	0.00247
83		33.706	1.60	0.434	---	0.00230
84		31.246	1.54	1.17	---	0.0128
85	85/116/117	35.114	1.63	0.645	---	0.00500
86	86/87/97/108/119/125	34.356	1.57	2.45	---	0.0146
87	86/87/97/108/119/125	34.356	1.57	(2.45)	---	0.0146
88	88/91	31.029	1.52	1.16	---	0.00475
89		31.772	1.50	0.0216 J	---	0.00301
90	90/101/113	33.211	1.57	4.55	---	0.0115
91	88/91	31.029	1.52	(1.16)	---	0.00475
92		32.592	1.56	1.89	---	0.00378
93	93/98/100/102	30.349	1.54	0.444	---	0.00544
94		29.622	1.56	0.206	---	0.00182
95		30.101	1.50	3.99	---	0.00838
96		27.310	1.51	0.0758	---	0.00303

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Method 1668C Polychlorobiphenyl Sample Analysis Results

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Lab Sample ID 40262368009
Filename P230529B_10

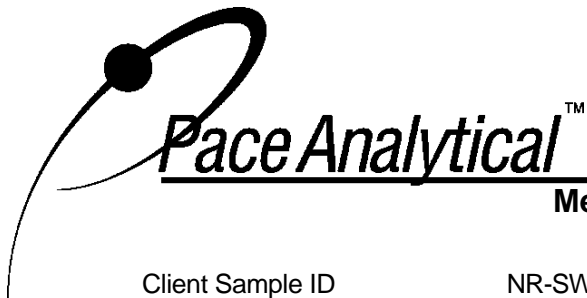
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	34.356	1.57	(2.45)	---	0.0146
98	93/98/100/102	30.349	1.54	(0.444)	---	0.00544
99		33.845	1.58	2.19	---	0.00569
100	93/98/100/102	30.349	1.54	(0.444)	---	0.00544
101	90/101/113	33.211	1.57	(4.55)	---	0.0115
102	93/98/100/102	30.349	1.54	(0.444)	---	0.00544
103		29.405	1.54	0.147	---	0.00189
104		26.939	1.24	---	IJ 0.00731	0.00147
105		39.589	1.48	0.765	---	0.00546
106		---	---	ND	---	0.00171
107	107/124	37.677	1.46	0.107	---	0.00253
108	86/87/97/108/119/125	34.356	1.57	(2.45)	---	0.0146
109		37.929	1.58	0.375	---	0.00192
110	110/115	35.269	1.57	6.01	---	0.0125
111		36.011	1.69	0.0172	J	0.00197
112		---	---	ND	---	0.00170
113	90/101/113	33.211	1.57	(4.55)	---	0.0115
114		38.951	1.51	0.0280	J	0.00220
115	110/115	35.269	1.57	(6.01)	---	0.0125
116	85/116/117	35.114	1.63	(0.645)	---	0.00500
117	85/116/117	35.114	1.63	(0.645)	---	0.00500
118		38.381	1.46	2.85	---	0.00863
119	86/87/97/108/119/125	34.356	1.57	(2.45)	---	0.0146
120		36.506	1.48	0.0420	---	0.00164
121		32.236	1.65	0.0103	J	0.00125
122		38.717	1.51	0.0233	J	0.00187
123		38.063	1.50	0.0373	J	0.00213
124	107/124	37.677	1.46	(0.107)	---	0.00253
125	86/87/97/108/119/125	34.356	1.57	(2.45)	---	0.0146
126		42.742	1.46	0.00824	J	0.00215
127		---	---	ND	---	0.00129
128	128/166	42.893	1.21	0.546	---	0.00420
129	129/138/163	41.601	1.23	2.99	---	0.0105
130		40.931	1.22	0.263	---	0.00211
131		38.029	1.31	0.0461	---	0.00272
132		38.499	1.22	1.33	---	0.00397
133		39.019	1.28	0.103	---	0.00257
134	134/143	37.409	1.11	0.285	---	0.00385
135	135/151	36.228	1.24	1.40	---	0.00500
136		33.722	1.27	0.565	---	0.00276
137		41.148	1.21	0.148	---	0.00247
138	129/138/163	41.601	1.23	(2.99)	---	0.0105
139	139/140	37.828	1.18	0.0844	---	0.00424
140	139/140	37.828	1.18	(0.0844)	---	0.00424
141		40.511	1.33	0.382	---	0.00238
142		---	---	ND	---	0.00186
143	134/143	37.409	1.11	(0.285)	---	0.00385
144		36.831	1.27	0.104	---	0.00201

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REPORT OF LABORATORY ANALYSIS

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-OU2-202305
Lab Sample ID 40262368009
Filename P230529B_10

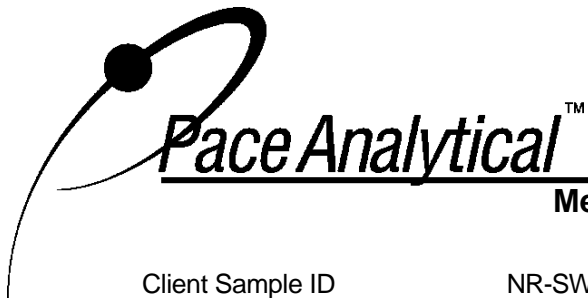
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
145		---	---	ND	---	0.00194
146		39.689	1.22	0.531	---	0.00245
147	147/149	37.208	1.23	2.92	---	0.00866
148		35.640	1.14	0.0235 J	---	0.00226
149	147/149	37.208	1.23	(2.92)	---	0.00866
150		33.396	1.17	0.0200 J	---	0.00126
151	135/151	36.228	1.24	(1.40)	---	0.00500
152		33.180	1.40	0.0135 J	---	0.00205
153	153/168	40.327	1.28	2.25	---	0.00744
154		36.521	1.28	0.0944	---	0.00169
155		---	---	ND	---	0.00148
156	156/157	45.816	1.26	0.413	---	0.00429
157	156/157	45.816	1.26	(0.413)	---	0.00429
158		42.004	1.22	0.254	---	0.00249
159		43.870	1.34	0.0107 J	---	0.00270
160		---	---	ND	---	0.00249
161		---	---	ND	---	0.00180
162		44.172	1.40	0.0117 J	---	0.00224
163	129/138/163	41.601	1.23	(2.99)	---	0.0105
164		41.266	1.26	0.225	---	0.00234
165		39.421	1.56	---	IJ 0.00710	0.00199
166	128/166	42.893	1.21	(0.546)	---	0.00420
167		44.659	1.23	0.130	---	0.00207
168	153/168	40.327	1.28	(2.25)	---	0.00744
169		49.102	1.95	---	IJ 0.00277	0.00155
170		48.532	1.02	0.370	---	0.00479
171	171/173	44.960	1.01	0.128	---	0.00587
172		46.604	1.14	0.0670	---	0.0136
173	171/173	44.960	1.01	(0.128)	---	0.00587
174		43.854	1.05	0.355	---	0.00309
175		42.708	1.00	0.0161 J	---	0.00146
176		40.193	0.95	0.0563	---	0.00217
177		44.306	1.05	0.273	---	0.00324
178		42.054	1.08	0.121	---	0.00219
179		39.287	0.97	0.209	---	0.00234
180	180/193	47.257	0.99	0.669	---	0.00554
181		44.725	0.88	0.0107 J	---	0.00265
182		43.194	1.37	---	IJ 0.00370	0.00249
183	183/185	43.619	1.06	0.217	---	0.00548
184		---	---	ND	---	0.00201
185	183/185	43.619	1.06	(0.217)	---	0.00548
186		---	---	ND	---	0.00151
187		42.993	1.06	0.504	---	0.00316
188		---	---	ND	---	0.00240
189		51.718	1.19	0.0165 J	---	0.00209
190		49.085	1.08	0.0833	---	0.00245
191		47.626	0.85	---	IJ 0.0124	0.00211
192		---	---	ND	---	0.00240

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-OU2-202305
Lab Sample ID 40262368009
Filename P230529B_10

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	47.257	0.99	(0.669)	---	0.00554
194		53.831	0.90	0.140	---	0.00181
195		51.460	0.85	0.0643	---	0.00167
196		49.924	0.93	0.0697	---	0.00169
197	197/200	46.402	1.02	0.0301 J	---	0.00456
198	198/199	49.270	0.85	0.190	---	0.00274
199	198/199	49.270	0.85	(0.190)	---	0.00274
200	197/200	46.402	1.02	(0.0301) J	---	0.00456
201		45.380	0.85	0.0222 J	---	0.00140
202		44.424	0.88	0.0350 J	---	0.00224
203		50.125	0.86	0.0965	---	0.00176
204		---	---	ND	---	0.00163
205		54.326	1.00	0.00845 J	---	0.00192
206		56.094	0.82	0.0396	---	0.00372
207		52.193	0.85	0.00673 J	---	0.00222
208		51.223	0.98	---	0.00804	0.00217
209		---	---	ND	---	0.0167

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

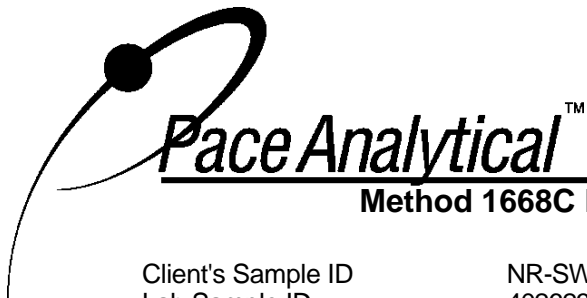
Client Sample ID NR-SW-OU2-202305
Lab Sample ID 40262368009
Filename P230529B_10

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	0.290
Total Dichloro Biphenyls	2.52 J
Total Trichloro Biphenyls	7.81 J
Total Tetrachloro Biphenyls	24.7 J
Total Pentachloro Biphenyls	29.8 J
Total Hexachloro Biphenyls	15.2 J
Total Heptachloro Biphenyls	3.09 J
Total Octachloro Biphenyls	0.655 J
Total Nonachloro Biphenyls	0.0463 J
Decachloro Biphenyls	ND
Total PCBs	84.1 J

ND = Not Detected

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-OU1-202305		
Lab Sample ID	40262368010		
Filename	P230529B_11		
Injected By	BAL		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	05/16/2023 17:00
ICAL ID	P230529B02	Received	05/20/2023 18:45
CCal Filename(s)	P230529B_01	Extracted	05/23/2023 12:15
Method Blank ID	BLANK-106282	Analyzed	05/30/2023 02:34

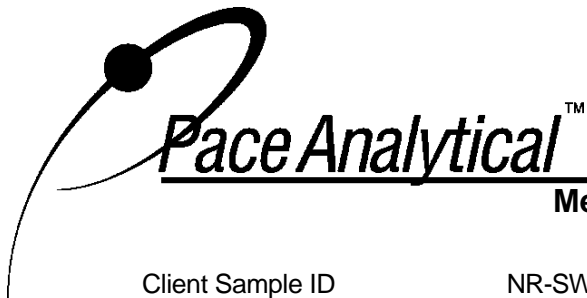
PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.103	3.07	2.0	1.54	77
13C-4-MoCB	3	12.941	3.04	2.0	1.71	86
13C-2,2'-DiCB	4	13.247	1.64	2.0	2.36	118
13C-4,4'-DiCB	15	20.382	1.55	2.0	1.85	92
13C-2,2',6-TrCB	19	17.110	1.02	2.0	2.43	121
13C-3,4,4'-TrCB	37	28.208	1.05	2.0	1.24	62
13C-2,2',6,6'-TeCB	54	20.736	0.80	2.0	1.54	77
13C-3,4,4',5-TeCB	81	35.347	0.78	2.0	1.37	69
13C-3,3',4,4'-TeCB	77	35.935	0.76	2.0	1.36	68
13C-2,2',4,6,6'-PeCB	104	26.893	1.66	2.0	1.69	85
13C-2,3,3',4,4'-PeCB	105	39.573	1.58	2.0	1.05	52
13C-2,3,4,4',5-PeCB	114	38.902	1.55	2.0	1.03	52
13C-2,3',4,4',5-PeCB	118	38.366	1.61	2.0	1.05	53
13C-2,3',4,4',5'-PeCB	123	38.013	1.55	2.0	1.04	52
13C-3,3',4,4',5-PeCB	126	42.726	1.56	2.0	0.871	44
13C-2,2',4,4',6,6'-HxCB	155	32.979	1.24	2.0	2.49	124
13C-HxCB (156/157)	156/157	45.816	1.27	4.0	2.15	54
13C-2,3',4,4',5,5'-HxCB	167	44.642	1.22	2.0	1.13	57
13C-3,3',4,4',5,5'-HxCB	169	49.103	1.26	2.0	1.21	61
13C-2,2',3,4',5,6,6'-HpCB	188	38.919	1.04	2.0	2.40	120
13C-2,3,3',4,4',5,5'-HpCB	189	51.654	1.03	2.0	1.43	72
13C-2,2',3,3',5,5',6,6'-OxCB	202	44.391	0.87	2.0	1.83	91
13C-2,3,3',4,4',5,5',6-OxCB	205	54.284	0.89	2.0	1.73	87
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.051	0.76	2.0	1.99	99
13C-2,2',3,3',4,4',5,5',6,6'-NoCB	208	51.202	0.78	2.0	2.17	109
13C-DeCB	209	57.689	0.69	2.0	2.17	108
CleanupStandards						
13C-2,4,4'-TrCB	28	23.830	1.05	2.0	1.18	59
13C-2,3,3',5,5'-PeCB	111	35.981	1.54	2.0	1.45	72
13C-2,2',3,3',5,5',6-HpCB	178	42.021	1.04	2.0	1.80	90
Recovery Standards						
13C-2,5-DiCB	9	15.740	1.59	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.841	0.79	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.181	1.54	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.552	1.25	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OxCB	194	53.810	0.89	2.0	NA	NA

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-OU1-202305
Lab Sample ID 40262368010
Filename P230529B_11

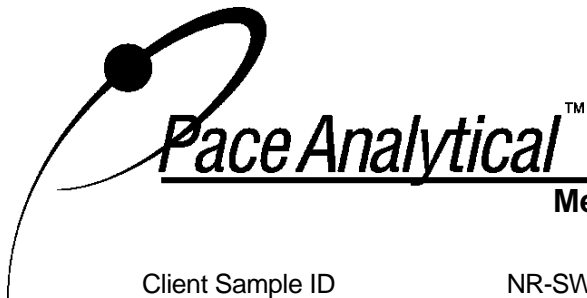
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		10.125	2.69	0.0110 J	---	0.00536
2		---	---	ND	---	0.00488
3		---	---	ND	---	0.00423
4		13.269	1.34	0.125	---	0.00723
5		---	---	ND	---	0.00176
6		16.237	1.42	0.0120 J	---	0.00901
7		---	---	ND	---	0.00894
8		16.779	1.54	0.0171 J	---	0.0118
9		---	---	ND	---	0.00236
10		---	---	ND	---	0.00281
11		---	---	ND	---	0.140
12	12/13	---	---	ND	---	0.00505
13	12/13	---	---	ND	---	0.00505
14		---	---	ND	---	0.00169
15		20.415	1.38	0.0574	---	0.00580
16		20.349	0.98	0.0131 J	---	0.00592
17		19.840	1.00	0.151	---	0.00496
18	18/30	19.332	1.05	0.0602 J	---	0.0110
19		17.132	1.00	0.152	---	0.00801
20	20/28	23.861	1.01	0.116 J	---	0.0175
21	21/33	---	---	ND	---	0.0126
22		24.541	1.14	0.0118 J	---	0.00728
23		---	---	ND	---	0.00153
24		---	---	ND	---	0.00184
25		23.180	1.03	0.0671	---	0.00275
26	26/29	22.902	1.01	0.130	---	0.00440
27		20.084	1.01	0.0156 J	---	0.00194
28	20/28	23.861	1.01	(0.116) J	---	0.0175
29	26/29	22.902	1.01	(0.130)	---	0.00440
30	18/30	19.332	1.05	(0.0602) J	---	0.0110
31		23.520	1.02	0.0544 J	---	0.0169
32		20.968	1.07	0.0737	---	0.00703
33	21/33	---	---	ND	---	0.0126
34		---	---	ND	---	0.00156
35		---	---	ND	---	0.00307
36		---	---	ND	---	0.00194
37		---	---	ND	---	0.00406
38		---	---	ND	---	0.00143
39		---	---	ND	---	0.00158
40	40/41/71	28.053	0.77	0.188	---	0.00780
41	40/41/71	28.053	0.77	(0.188)	---	0.00780
42		27.527	0.77	0.133	---	0.00423
43	43/73	26.027	0.71	0.0240 J	---	0.00377
44	44/47/65	27.017	0.76	0.792	---	0.0179
45	45/51	24.046	0.74	0.146	---	0.00553
46		24.294	0.74	0.0536	---	0.00219
47	44/47/65	27.017	0.76	(0.792)	---	0.0179
48		26.723	0.84	0.0131 J	---	0.00281

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-OU1-202305
Lab Sample ID 40262368010
Filename P230529B_11

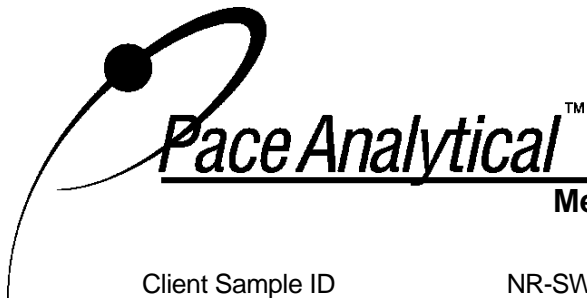
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	26.398	0.77	0.842	---	0.00650
50	50/53	23.195	0.74	0.214	---	0.00365
51	45/51	24.046	0.74	(0.146)	---	0.00553
52		25.872	0.77	1.57	---	0.0160
53	50/53	23.195	0.74	(0.214)	---	0.00365
54		20.767	0.72	0.0162 J	---	0.00155
55		---	---	ND	---	0.00208
56		32.082	0.69	0.0377 J	---	0.00974
57		29.962	0.75	0.0106 J	---	0.00145
58		30.194	1.07	---	IJ	0.00183
59	59/62/75	27.388	0.75	0.0287 J	---	0.00400
60		32.314	0.85	0.00702 J	---	0.00331
61	61/70/74/76	31.014	0.77	0.340	---	0.0309
62	59/62/75	27.388	0.75	(0.0287) J	---	0.00400
63		30.659	0.82	0.0147 J	---	0.00168
64		28.285	0.77	0.126	---	0.00540
65	44/47/65	27.017	0.76	(0.792)	---	0.0179
66		31.370	0.66	0.204	---	0.0211
67		30.396	0.82	0.00631 J	---	0.00217
68		29.499	0.79	0.0163 J	---	0.00242
69	49/69	26.398	0.77	(0.842)	---	0.00650
70	61/70/74/76	31.014	0.77	(0.340)	---	0.0309
71	40/41/71	28.053	0.77	(0.188)	---	0.00780
72		29.205	0.67	0.0202 J	---	0.00170
73	43/73	26.027	0.71	(0.0240) J	---	0.00377
74	61/70/74/76	31.014	0.77	(0.340)	---	0.0309
75	59/62/75	27.388	0.75	(0.0287) J	---	0.00400
76	61/70/74/76	31.014	0.77	(0.340)	---	0.0309
77		35.996	0.82	0.00839 J	---	0.00256
78		---	---	ND	---	0.00223
79		34.341	0.80	0.0113 J	---	0.00225
80		---	---	ND	---	0.00206
81		---	---	ND	---	0.00172
82		35.594	1.68	0.0862	---	0.00248
83		33.676	1.38	0.0986	---	0.00231
84		31.231	1.43	0.309	---	0.0128
85	85/116/117	35.099	1.57	0.284	---	0.00502
86	86/87/97/108/119/125	34.434	1.52	0.829	---	0.0147
87	86/87/97/108/119/125	34.434	1.52	(0.829)	---	0.0147
88	88/91	31.030	1.49	0.270	---	0.00477
89		31.788	1.07	---	IJ	0.00417
90	90/101/113	33.211	1.49	1.60	---	0.0115
91	88/91	31.030	1.49	(0.270)	---	0.00477
92		32.593	1.49	0.430	---	0.00379
93	93/98/100/102	30.349	1.63	0.0641 J	---	0.00546
94		29.622	1.62	0.0219 J	---	0.00182
95		30.086	1.57	1.33	---	0.00840
96		27.295	1.67	0.0108 J	---	0.00304

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REPORT OF LABORATORY ANALYSIS

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-OU1-202305
Lab Sample ID 40262368010
Filename P230529B_11

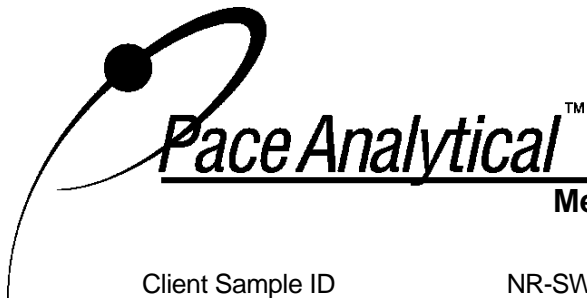
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	34.434	1.52	(0.829)	---	0.0147
98	93/98/100/102	30.349	1.63	(0.0641) J	---	0.00546
99		33.830	1.50	1.06	---	0.00571
100	93/98/100/102	30.349	1.63	(0.0641) J	---	0.00546
101	90/101/113	33.211	1.49	(1.60)	---	0.0115
102	93/98/100/102	30.349	1.63	(0.0641) J	---	0.00546
103		29.421	1.50	0.0226 J	---	0.00189
104		---	---	ND	---	0.00147
105		39.590	1.44	0.159	---	0.00548
106		---	---	ND	---	0.00172
107	107/124	37.678	1.54	0.0260 J	---	0.00254
108	86/87/97/108/119/125	34.434	1.52	(0.829)	---	0.0147
109		37.913	1.58	0.0553	---	0.00192
110	110/115	35.269	1.53	1.65	---	0.0125
111		---	---	ND	---	0.00198
112		---	---	ND	---	0.00171
113	90/101/113	33.211	1.49	(1.60)	---	0.0115
114		38.919	1.10	---	IJ 0.00575	0.00221
115	110/115	35.269	1.53	(1.65)	---	0.0125
116	85/116/117	35.099	1.57	(0.284)	---	0.00502
117	85/116/117	35.099	1.57	(0.284)	---	0.00502
118		38.382	1.46	0.510	---	0.00865
119	86/87/97/108/119/125	34.434	1.52	(0.829)	---	0.0147
120		36.492	1.22	---	IJ 0.00442	0.00165
121		---	---	ND	---	0.00126
122		38.717	1.44	0.00652 J	---	0.00188
123		38.030	1.67	0.0116 J	---	0.00213
124	107/124	37.678	1.54	(0.0260) J	---	0.00254
125	86/87/97/108/119/125	34.434	1.52	(0.829)	---	0.0147
126		---	---	ND	---	0.00215
127		---	---	ND	---	0.00129
128	128/166	42.877	1.21	0.117	---	0.00421
129	129/138/163	41.585	1.30	0.732	---	0.0106
130		40.915	1.25	0.0552	---	0.00211
131		38.013	1.36	0.0146 J	---	0.00273
132		38.483	1.21	0.254	---	0.00398
133		38.986	1.22	0.0161 J	---	0.00258
134	134/143	37.410	1.17	0.0582 J	---	0.00386
135	135/151	36.228	1.28	0.342	---	0.00502
136		33.722	1.18	0.117	---	0.00277
137		41.149	1.15	0.0478	---	0.00248
138	129/138/163	41.585	1.30	(0.732)	---	0.0106
139	139/140	37.812	1.31	0.0263 J	---	0.00425
140	139/140	37.812	1.31	(0.0263) J	---	0.00425
141		40.495	1.24	0.116	---	0.00238
142		---	---	ND	---	0.00186
143	134/143	37.410	1.17	(0.0582) J	---	0.00386
144		36.832	1.09	0.0298 J	---	0.00202

Conc = Concentration
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REPORT OF LABORATORY ANALYSIS

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-OU1-202305
Lab Sample ID 40262368010
Filename P230529B_11

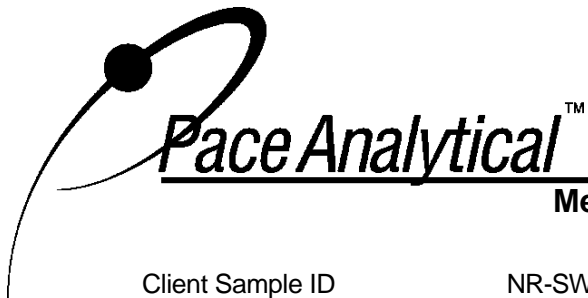
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
145		---	---	ND	---	0.00194
146		39.674	1.20	0.114	---	0.00246
147	147/149	37.192	1.23	0.650	---	0.00869
148		35.625	1.27	0.00230 J	---	0.00227
149	147/149	37.192	1.23	(0.650)	---	0.00869
150		33.382	1.84	---	IJ	0.00126
151	135/151	36.228	1.28	(0.342)	---	0.00502
152		---	---	ND	---	0.00206
153	153/168	40.311	1.19	0.638	---	0.00746
154		36.522	1.14	0.0175 J	---	0.00170
155		---	---	ND	---	0.00149
156	156/157	45.833	1.18	0.0680 J	---	0.00430
157	156/157	45.833	1.18	(0.0680) J	---	0.00430
158		41.988	1.23	0.0585	---	0.00250
159		---	---	ND	---	0.00271
160		---	---	ND	---	0.00250
161		---	---	ND	---	0.00180
162		---	---	ND	---	0.00225
163	129/138/163	41.585	1.30	(0.732)	---	0.0106
164		41.250	1.27	0.0468	---	0.00234
165		---	---	ND	---	0.00200
166	128/166	42.877	1.21	(0.117)	---	0.00421
167		44.659	1.21	0.0214 J	---	0.00208
168	153/168	40.311	1.19	(0.638)	---	0.00746
169		---	---	ND	---	0.00155
170		48.533	1.13	0.0513	---	0.00480
171	171/173	44.944	1.12	0.0215 J	---	0.00588
172		---	---	ND	---	0.0136
173	171/173	44.944	1.12	(0.0215) J	---	0.00588
174		43.838	1.02	0.0552	---	0.00309
175		42.659	2.13	---	IJ	0.00229
176		40.143	1.22	---	IJ	0.00598
177		44.307	1.05	0.0385	---	0.00325
178		42.038	0.95	0.0181 J	---	0.00219
179		39.271	0.89	0.0344 J	---	0.00234
180	180/193	47.258	1.09	0.0899	---	0.00555
181		---	---	ND	---	0.00265
182		---	---	ND	---	0.00250
183	183/185	43.620	1.16	0.0429 J	---	0.00550
184		---	---	ND	---	0.00202
185	183/185	43.620	1.16	(0.0429) J	---	0.00550
186		---	---	ND	---	0.00152
187		42.977	0.97	0.0878	---	0.00317
188		---	---	ND	---	0.00240
189		---	---	ND	---	0.00209
190		49.069	0.90	0.0114 J	---	0.00246
191		---	---	ND	---	0.00211
192		---	---	ND	---	0.00240

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-OU1-202305
Lab Sample ID 40262368010
Filename P230529B_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	47.258	1.09	(0.0899)	---	0.00555
194		53.853	0.79	0.0163 J	---	0.00181
195		51.460	1.82	---	0.00447	0.00167
196		49.924	0.82	0.00871 J	---	0.00169
197	197/200	---	---	ND	---	0.00457
198	198/199	49.254	0.83	0.0221 J	---	0.00275
199	198/199	49.254	0.83	(0.0221) J	---	0.00275
200	197/200	---	---	ND	---	0.00457
201		45.380	1.08	---	0.00208	0.00140
202		44.424	0.88	0.00440 J	---	0.00225
203		50.109	1.16	---	0.0106	0.00176
204		---	---	ND	---	0.00163
205		---	---	ND	---	0.00192
206		56.073	0.70	0.00567 J	---	0.00373
207		---	---	ND	---	0.00223
208		---	---	ND	---	0.00217
209		---	---	ND	---	0.0167

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-OU1-202305
Lab Sample ID 40262368010
Filename P230529B_11

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	0.0110 J
Total Dichloro Biphenyls	0.211 J
Total Trichloro Biphenyls	0.845 J
Total Tetrachloro Biphenyls	4.82 J
Total Pentachloro Biphenyls	8.84 J
Total Hexachloro Biphenyls	3.54 J
Total Heptachloro Biphenyls	0.451 J
Total Octachloro Biphenyls	0.0514 J
Total Nonachloro Biphenyls	0.00567 J
Decachloro Biphenyls	ND
Total PCBs	18.8 J

ND = Not Detected

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-BKG2-202305		
Lab Sample ID	40262368011		
Filename	P230531B_08		
Injected By	CVS		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	05/16/2023 17:40
ICAL ID	P230531B02	Received	05/20/2023 18:45
CCal Filename(s)	P230531B_01	Extracted	05/26/2023 11:40
Method Blank ID	BLANK-106448	Analyzed	06/01/2023 04:43

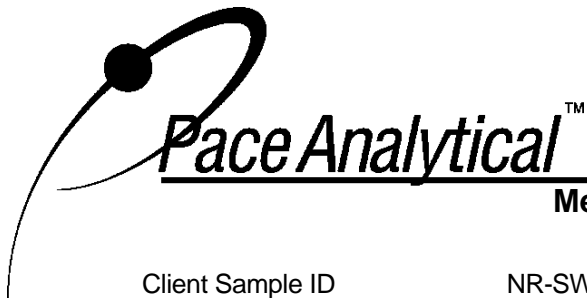
PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.114	3.20	2.0	1.09	55
13C-4-MoCB	3	12.941	3.14	2.0	1.35	67
13C-2,2'-DiCB	4	13.246	1.53	2.0	1.33	66
13C-4,4'-DiCB	15	20.359	1.57	2.0	1.53	76
13C-2,2',6-TrCB	19	17.087	1.02	2.0	1.43	72
13C-3,4,4'-TrCB	37	28.175	1.09	2.0	1.39	70
13C-2,2',6,6'-TeCB	54	20.719	0.79	2.0	1.13	57
13C-3,4,4',5-TeCB	81	35.328	0.81	2.0	1.44	72
13C-3,3',4,4'-TeCB	77	35.900	0.78	2.0	1.39	70
13C-2,2',4,6,6'-PeCB	104	26.860	1.55	2.0	1.31	66
13C-2,3,3',4,4'-PeCB	105	39.517	1.61	2.0	1.39	70
13C-2,3,4,4',5-PeCB	114	38.880	1.58	2.0	1.37	68
13C-2,3',4,4',5-PeCB	118	38.327	1.60	2.0	1.35	68
13C-2,3',4,4',5'-PeCB	123	37.975	1.56	2.0	1.38	69
13C-3,3',4,4',5-PeCB	126	42.686	1.56	2.0	1.29	64
13C-2,2',4,4',6,6'-HxCB	155	32.945	1.24	2.0	1.33	66
13C-HxCB (156/157)	156/157	45.777	1.27	4.0	2.57	64
13C-2,3',4,4',5,5'-HxCB	167	44.603	1.28	2.0	1.34	67
13C-3,3',4,4',5,5'-HxCB	169	49.063	1.25	2.0	1.21	61
13C-2,2',3,4',5,6,6'-HpCB	188	38.863	1.04	2.0	1.46	73
13C-2,3,3',4,4',5,5'-HpCB	189	51.626	1.05	2.0	1.52	76
13C-2,2',3,3',5,5',6,6'-OcCB	202	44.351	0.89	2.0	1.41	71
13C-2,3,3',4,4',5,5',6-OcCB	205	54.234	0.91	2.0	1.33	67
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.001	0.80	2.0	1.25	62
13C-2,2',3,3',4,4',5,5',6,6'-NoCB	208	51.152	0.79	2.0	1.38	69
13C-DeCB	209	57.639	0.70	2.0	1.20	60
CleanupStandards						
13C-2,4,4'-TrCB	28	23.797	1.04	2.0	1.22	61
13C-2,3,3',5,5'-PeCB	111	35.946	1.57	2.0	1.08	54
13C-2,2',3,3',5,5',6-HpCB	178	41.982	1.04	2.0	1.04	52
Recovery Standards						
13C-2,5-DiCB	9	15.728	1.56	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.808	0.80	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.146	1.58	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.529	1.25	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	53.759	0.91	2.0	NA	NA

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-BKG2-202305
Lab Sample ID 40262368011
Filename P230531B_08

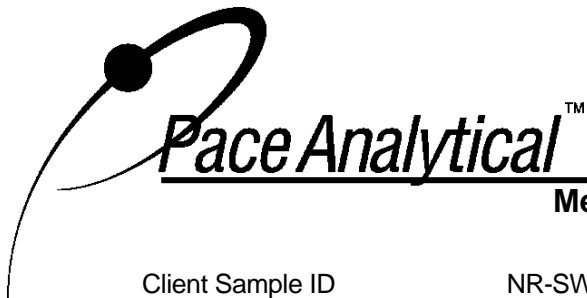
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.00535
2		---	---	ND	---	0.00487
3		---	---	ND	---	0.00422
4		---	---	ND	---	0.00721
5		16.767	1.08	--- IJ	0.00489	0.00176
6		---	---	ND	---	0.00899
7		---	---	ND	---	0.00891
8		---	---	ND	---	0.0117
9		---	---	ND	---	0.00236
10		---	---	ND	---	0.00280
11		---	---	ND	---	0.139
12	12/13	---	---	ND	---	0.00504
13	12/13	---	---	ND	---	0.00504
14		---	---	ND	---	0.00168
15		---	---	ND	---	0.00579
16		---	---	ND	---	0.00590
17		---	---	ND	---	0.00495
18	18/30	---	---	ND	---	0.0109
19		---	---	ND	---	0.00799
20	20/28	---	---	ND	---	0.0174
21	21/33	---	---	ND	---	0.0126
22		---	---	ND	---	0.00726
23		---	---	ND	---	0.00152
24		---	---	ND	---	0.00183
25		---	---	ND	---	0.00274
26	26/29	---	---	ND	---	0.00439
27		---	---	ND	---	0.00194
28	20/28	---	---	ND	---	0.0174
29	26/29	---	---	ND	---	0.00439
30	18/30	---	---	ND	---	0.0109
31		---	---	ND	---	0.0169
32		---	---	ND	---	0.00702
33	21/33	---	---	ND	---	0.0126
34		---	---	ND	---	0.00156
35		---	---	ND	---	0.00307
36		---	---	ND	---	0.00194
37		---	---	ND	---	0.00404
38		---	---	ND	---	0.00142
39		---	---	ND	---	0.00158
40	40/41/71	---	---	ND	---	0.00778
41	40/41/71	---	---	ND	---	0.00778
42		---	---	ND	---	0.00422
43	43/73	---	---	ND	---	0.00376
44	44/47/65	---	---	ND	---	0.0179
45	45/51	---	---	ND	---	0.00552
46		---	---	ND	---	0.00219
47	44/47/65	---	---	ND	---	0.0179
48		---	---	ND	---	0.00280

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-BKG2-202305
Lab Sample ID 40262368011
Filename P230531B_08

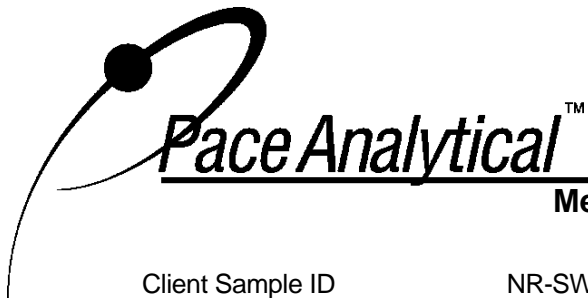
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	26.380	0.83	0.0102 J	---	0.00648
50	50/53	---	---	ND	---	0.00364
51	45/51	---	---	ND	---	0.00552
52	---	---	---	ND	---	0.0159
53	50/53	---	---	ND	---	0.00364
54	---	---	---	ND	---	0.00154
55	---	---	---	ND	---	0.00207
56	---	---	---	ND	---	0.00972
57	---	---	---	ND	---	0.00144
58	---	---	---	ND	---	0.00183
59	59/62/75	---	---	ND	---	0.00399
60	---	---	---	ND	---	0.00330
61	61/70/74/76	---	---	ND	---	0.0309
62	59/62/75	---	---	ND	---	0.00399
63	---	---	---	ND	---	0.00168
64	---	---	---	ND	---	0.00539
65	44/47/65	---	---	ND	---	0.0179
66	---	---	---	ND	---	0.0211
67	---	---	---	ND	---	0.00217
68	---	---	---	ND	---	0.00242
69	49/69	26.380	0.83	(0.0102) J	---	0.00648
70	61/70/74/76	---	---	ND	---	0.0309
71	40/41/71	---	---	ND	---	0.00778
72	---	---	---	ND	---	0.00170
73	43/73	---	---	ND	---	0.00376
74	61/70/74/76	---	---	ND	---	0.0309
75	59/62/75	---	---	ND	---	0.00399
76	61/70/74/76	---	---	ND	---	0.0309
77	---	---	---	ND	---	0.00255
78	---	---	---	ND	---	0.00222
79	---	---	---	ND	---	0.00224
80	---	---	---	ND	---	0.00205
81	---	---	---	ND	---	0.00171
82	---	---	---	ND	---	0.00247
83	---	---	---	ND	---	0.00230
84	---	---	---	ND	---	0.0128
85	85/116/117	---	---	ND	---	0.00500
86	86/87/97/108/119/125	---	---	ND	---	0.0146
87	86/87/97/108/119/125	---	---	ND	---	0.0146
88	88/91	---	---	ND	---	0.00475
89	---	---	---	ND	---	0.00301
90	90/101/113	33.178	1.51	0.0130 J	---	0.0115
91	88/91	---	---	ND	---	0.00475
92	---	32.528	1.16	---	0.00479	0.00378
93	93/98/100/102	---	---	ND	---	0.00544
94	---	---	---	ND	---	0.00182
95	---	---	---	ND	---	0.00838
96	---	---	---	ND	---	0.00303

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-BKG2-202305
Lab Sample ID 40262368011
Filename P230531B_08

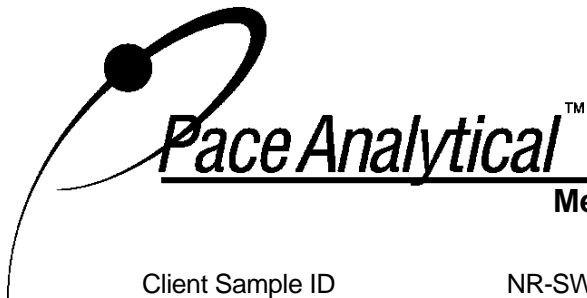
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	---	---	ND	---	0.0146
98	93/98/100/102	---	---	ND	---	0.00544
99		33.796	1.53	0.00682 J	---	0.00569
100	93/98/100/102	---	---	ND	---	0.00544
101	90/101/113	33.178	1.51	(0.0130) J	---	0.0115
102	93/98/100/102	---	---	ND	---	0.00544
103		---	---	ND	---	0.00189
104		---	---	ND	---	0.00147
105		---	---	ND	---	0.00546
106		---	---	ND	---	0.00171
107	107/124	---	---	ND	---	0.00253
108	86/87/97/108/119/125	---	---	ND	---	0.0146
109		---	---	ND	---	0.00192
110	110/115	35.219	1.59	0.0138 J	---	0.0125
111		---	---	ND	---	0.00197
112		---	---	ND	---	0.00170
113	90/101/113	33.178	1.51	(0.0130) J	---	0.0115
114		---	---	ND	---	0.00220
115	110/115	35.219	1.59	(0.0138) J	---	0.0125
116	85/116/117	---	---	ND	---	0.00500
117	85/116/117	---	---	ND	---	0.00500
118		38.343	1.63	0.0113 J	---	0.00863
119	86/87/97/108/119/125	---	---	ND	---	0.0146
120		---	---	ND	---	0.00164
121		---	---	ND	---	0.00125
122		---	---	ND	---	0.00187
123		---	---	ND	---	0.00213
124	107/124	---	---	ND	---	0.00253
125	86/87/97/108/119/125	---	---	ND	---	0.0146
126		---	---	ND	---	0.00215
127		---	---	ND	---	0.00129
128	128/166	---	---	ND	---	0.00420
129	129/138/163	---	---	ND	---	0.0105
130		---	---	ND	---	0.00211
131		---	---	ND	---	0.00272
132		---	---	ND	---	0.00397
133		---	---	ND	---	0.00257
134	134/143	---	---	ND	---	0.00385
135	135/151	---	---	ND	---	0.00500
136		---	---	ND	---	0.00276
137		---	---	ND	---	0.00247
138	129/138/163	---	---	ND	---	0.0105
139	139/140	---	---	ND	---	0.00424
140	139/140	---	---	ND	---	0.00424
141		---	---	ND	---	0.00238
142		---	---	ND	---	0.00186
143	134/143	---	---	ND	---	0.00385
144		---	---	ND	---	0.00201

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
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NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
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ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-BKG2-202305
Lab Sample ID 40262368011
Filename P230531B_08

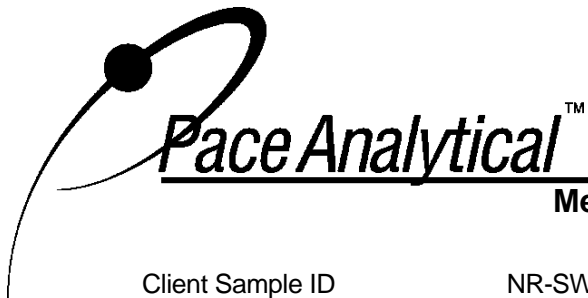
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
145		---	---	ND	---	0.00194
146		---	---	ND	---	0.00245
147	147/149	---	---	ND	---	0.00866
148		---	---	ND	---	0.00226
149	147/149	---	---	ND	---	0.00866
150		---	---	ND	---	0.00126
151	135/151	---	---	ND	---	0.00500
152		---	---	ND	---	0.00205
153	153/168	40.272	1.22	0.00967 J	---	0.00744
154		---	---	ND	---	0.00169
155		---	---	ND	---	0.00148
156	156/157	---	---	ND	---	0.00429
157	156/157	---	---	ND	---	0.00429
158		---	---	ND	---	0.00249
159		---	---	ND	---	0.00270
160		---	---	ND	---	0.00249
161		---	---	ND	---	0.00180
162		---	---	ND	---	0.00224
163	129/138/163	---	---	ND	---	0.0105
164		---	---	ND	---	0.00234
165		---	---	ND	---	0.00199
166	128/166	---	---	ND	---	0.00420
167		---	---	ND	---	0.00207
168	153/168	40.272	1.22	(0.00967) J	---	0.00744
169		---	---	ND	---	0.00155
170		---	---	ND	---	0.00479
171	171/173	---	---	ND	---	0.00587
172		---	---	ND	---	0.0136
173	171/173	---	---	ND	---	0.00587
174		---	---	ND	---	0.00309
175		---	---	ND	---	0.00146
176		---	---	ND	---	0.00217
177		---	---	ND	---	0.00324
178		---	---	ND	---	0.00219
179		---	---	ND	---	0.00234
180	180/193	---	---	ND	---	0.00554
181		---	---	ND	---	0.00265
182		---	---	ND	---	0.00249
183	183/185	---	---	ND	---	0.00548
184		---	---	ND	---	0.00201
185	183/185	---	---	ND	---	0.00548
186		---	---	ND	---	0.00151
187		---	---	ND	---	0.00316
188		---	---	ND	---	0.00240
189		---	---	ND	---	0.00209
190		---	---	ND	---	0.00245
191		---	---	ND	---	0.00211
192		---	---	ND	---	0.00240

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-BKG2-202305
Lab Sample ID 40262368011
Filename P230531B_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	---	---	ND	---	0.00554
194		---	---	ND	---	0.00181
195		---	---	ND	---	0.00167
196		---	---	ND	---	0.00169
197	197/200	---	---	ND	---	0.00456
198	198/199	---	---	ND	---	0.00274
199	198/199	---	---	ND	---	0.00274
200	197/200	---	---	ND	---	0.00456
201		---	---	ND	---	0.00140
202		---	---	ND	---	0.00224
203		---	---	ND	---	0.00176
204		---	---	ND	---	0.00163
205		---	---	ND	---	0.00192
206		---	---	ND	---	0.00372
207		---	---	ND	---	0.00222
208		---	---	ND	---	0.00217
209		---	---	ND	---	0.0167

Conc = Concentration
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-BKG2-202305
Lab Sample ID 40262368011
Filename P230531B_08

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	0.0102 J
Total Pentachloro Biphenyls	0.0450 J
Total Hexachloro Biphenyls	0.00967 J
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	0.0648 J

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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**Method 1668C Polychlorobiphenyl
Blank Analysis Results**

Lab Sample ID	BLANK-106282		
Filename	P230528A_06		
Injected By	BAL	Matrix	Water
Total Amount Extracted	1000 mL	Extracted	05/23/2023 12:15
ICAL ID	P230528A02	Analyzed	05/28/2023 18:02
CCal Filename(s)	P230528A_01	Dilution	NA

PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
------------	-------	----	-------	------------	------------	------------

Labeled Analytes

13C-2-MoCB	1	10.238	3.07	2.0	1.04	52
13C-4-MoCB	3	13.020	3.23	2.0	1.29	65
13C-2,2'-DiCB	4	13.326	1.54	2.0	1.33	66
13C-4,4'-DiCB	15	20.415	1.60	2.0	1.42	71
13C-2,2',6-TrCB	19	17.154	1.06	2.0	1.33	67
13C-3,4,4'-TrCB	37	28.192	1.08	2.0	1.53	77
13C-2,2',6,6'-TeCB	54	20.766	0.80	2.0	1.22	61
13C-3,4,4',5-TeCB	81	35.346	0.80	2.0	1.62	81
13C-3,3',4,4'-TeCB	77	35.934	0.79	2.0	1.60	80
13C-2,2',4,6,6'-PeCB	104	26.893	1.63	2.0	1.27	63
13C-2,3,3',4,4'-PeCB	105	39.556	1.59	2.0	1.53	76
13C-2,3,4,4',5-PeCB	114	38.902	1.62	2.0	1.53	76
13C-2,3',4,4',5-PeCB	118	38.348	1.57	2.0	1.57	78
13C-2,3',4,4',5'-PeCB	123	38.013	1.60	2.0	1.50	75
13C-3,3',4,4',5-PeCB	126	42.725	1.63	2.0	1.33	67
13C-2,2',4,4',6,6'-HxCB	155	32.979	1.24	2.0	1.45	73
13C-HxCB (156/157)	156/157	45.816	1.28	4.0	2.69	67
13C-2,3',4,4',5,5'-HxCB	167	44.642	1.27	2.0	1.40	70
13C-3,3',4,4',5,5'-HxCB	169	49.103	1.28	2.0	1.55	77
13C-2,2',3,4',5,6,6'-HpCB	188	38.902	1.01	2.0	1.65	82
13C-2,3,3',4,4',5,5'-HpCB	189	51.675	1.07	2.0	1.71	86
13C-2,2',3,3',5,5',6,6'-OxCB	202	44.407	0.90	2.0	1.46	73
13C-2,3,3',4,4',5,5',6-OxCB	205	54.284	0.89	2.0	1.71	86
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.051	0.80	2.0	1.68	84
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.201	0.79	2.0	1.76	88
13C-DeCB	209	57.689	0.72	2.0	1.71	85

Cleanup Standards

13C-2,4,4'-TrCB	28	23.845	1.04	2.0	1.60	80
13C-2,3,3',5,5'-PeCB	111	35.980	1.53	2.0	1.51	75
13C-2,2',3,3',5,5',6-HpCB	178	42.021	1.06	2.0	1.45	73

Recovery Standards

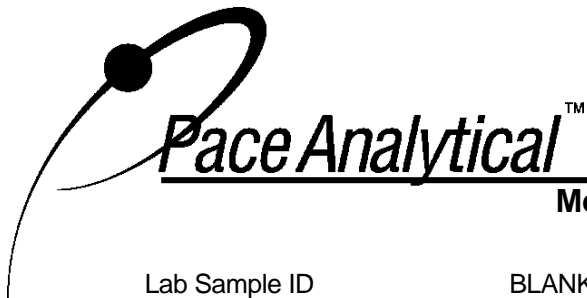
13C-2,5-DiCB	9	15.795	1.60	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.841	0.77	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.180	1.59	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.551	1.27	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OxCB	194	53.809	0.89	2.0	NA	NA

Conc = Concentration
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EMPC = Estimated Maximum Possible Concentration
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R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
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REPORT OF LABORATORY ANALYSIS

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**Method 1668C Polychlorobiphenyl
Blank Analysis Results**

Lab Sample ID BLANK-106282
Filename P230528A_06

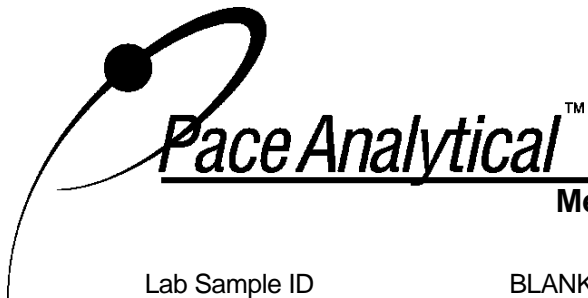
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.00558
2		---	---	ND	---	0.00508
3		---	---	ND	---	0.00440
4		---	---	ND	---	0.00752
5		---	---	ND	---	0.00183
6		---	---	ND	---	0.00938
7		---	---	ND	---	0.00930
8		---	---	ND	---	0.0123
9		---	---	ND	---	0.00246
10		---	---	ND	---	0.00292
11		---	---	ND	---	0.145
12	12/13	---	---	ND	---	0.00526
13	12/13	---	---	ND	---	0.00526
14		---	---	ND	---	0.00175
15		---	---	ND	---	0.00604
16		---	---	ND	---	0.00616
17		---	---	ND	---	0.00516
18	18/30	---	---	ND	---	0.0114
19		---	---	ND	---	0.00834
20	20/28	---	---	ND	---	0.0182
21	21/33	---	---	ND	---	0.0131
22		---	---	ND	---	0.00758
23		---	---	ND	---	0.00159
24		---	---	ND	---	0.00191
25		---	---	ND	---	0.00286
26	26/29	---	---	ND	---	0.00458
27		---	---	ND	---	0.00202
28	20/28	---	---	ND	---	0.0182
29	26/29	---	---	ND	---	0.00458
30	18/30	---	---	ND	---	0.0114
31		---	---	ND	---	0.0176
32		---	---	ND	---	0.00732
33	21/33	---	---	ND	---	0.0131
34		---	---	ND	---	0.00162
35		---	---	ND	---	0.00320
36		---	---	ND	---	0.00202
37		---	---	ND	---	0.00422
38		---	---	ND	---	0.00149
39		---	---	ND	---	0.00164
40	40/41/71	---	---	ND	---	0.00812
41	40/41/71	---	---	ND	---	0.00812
42		---	---	ND	---	0.00440
43	43/73	---	---	ND	---	0.00392
44	44/47/65	---	---	ND	---	0.0187
45	45/51	---	---	ND	---	0.00576

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
ng/L = Nanograms per liter

ND = Not Detected
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* = See Discussion
X = Outside QC Limits
RT = Retention Time
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REPORT OF LABORATORY ANALYSIS

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**Method 1668C Polychlorobiphenyl
Blank Analysis Results**

Lab Sample ID BLANK-106282
Filename P230528A_06

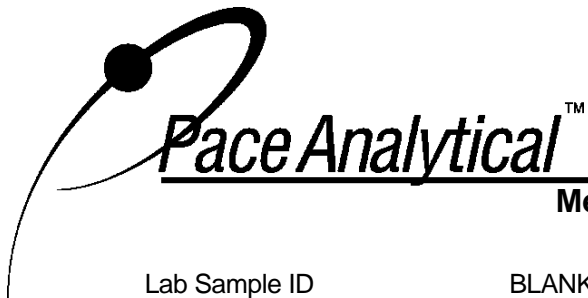
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
46		---	---	ND	---	0.00228
47	44/47/65	---	---	ND	---	0.0187
48		---	---	ND	---	0.00292
49	49/69	---	---	ND	---	0.00676
50	50/53	---	---	ND	---	0.00380
51	45/51	---	---	ND	---	0.00576
52		---	---	ND	---	0.0166
53	50/53	---	---	ND	---	0.00380
54		---	---	ND	---	0.00161
55		---	---	ND	---	0.00216
56		---	---	ND	---	0.0101
57		---	---	ND	---	0.00150
58		---	---	ND	---	0.00191
59	59/62/75	---	---	ND	---	0.00416
60		---	---	ND	---	0.00344
61	61/70/74/76	---	---	ND	---	0.0322
62	59/62/75	---	---	ND	---	0.00416
63		---	---	ND	---	0.00175
64		---	---	ND	---	0.00562
65	44/47/65	---	---	ND	---	0.0187
66		---	---	ND	---	0.0220
67		---	---	ND	---	0.00226
68		---	---	ND	---	0.00252
69	49/69	---	---	ND	---	0.00676
70	61/70/74/76	---	---	ND	---	0.0322
71	40/41/71	---	---	ND	---	0.00812
72		---	---	ND	---	0.00177
73	43/73	---	---	ND	---	0.00392
74	61/70/74/76	---	---	ND	---	0.0322
75	59/62/75	---	---	ND	---	0.00416
76	61/70/74/76	---	---	ND	---	0.0322
77		---	---	ND	---	0.00266
78		---	---	ND	---	0.00232
79		---	---	ND	---	0.00234
80		---	---	ND	---	0.00214
81		---	---	ND	---	0.00179
82		---	---	ND	---	0.00258
83		---	---	ND	---	0.00240
84		---	---	ND	---	0.0133
85	85/116/117	---	---	ND	---	0.00522
86	86/87/97/108/119/125	---	---	ND	---	0.0153
87	86/87/97/108/119/125	---	---	ND	---	0.0153
88	88/91	---	---	ND	---	0.00496
89		---	---	ND	---	0.00314
90	90/101/113	---	---	ND	---	0.0120

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
ng/L = Nanograms per liter

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REPORT OF LABORATORY ANALYSIS

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**Method 1668C Polychlorobiphenyl
Blank Analysis Results**

Lab Sample ID BLANK-106282
Filename P230528A_06

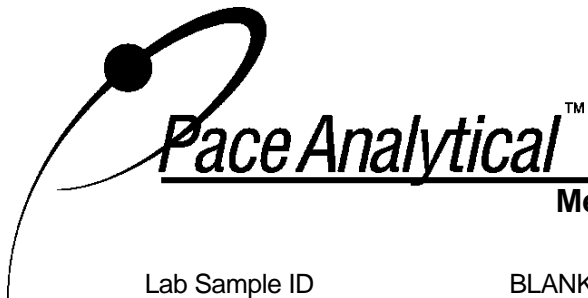
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
91	88/91	---	---	ND	---	0.00496
92		---	---	ND	---	0.00394
93	93/98/100/102	---	---	ND	---	0.00568
94		---	---	ND	---	0.00190
95		---	---	ND	---	0.00874
96		---	---	ND	---	0.00316
97	86/87/97/108/119/125	---	---	ND	---	0.0153
98	93/98/100/102	---	---	ND	---	0.00568
99		---	---	ND	---	0.00594
100	93/98/100/102	---	---	ND	---	0.00568
101	90/101/113	---	---	ND	---	0.0120
102	93/98/100/102	---	---	ND	---	0.00568
103		---	---	ND	---	0.00197
104		---	---	ND	---	0.00153
105		---	---	ND	---	0.00570
106		---	---	ND	---	0.00179
107	107/124	---	---	ND	---	0.00264
108	86/87/97/108/119/125	---	---	ND	---	0.0153
109		---	---	ND	---	0.00200
110	110/115	---	---	ND	---	0.0130
111		---	---	ND	---	0.00206
112		---	---	ND	---	0.00178
113	90/101/113	---	---	ND	---	0.0120
114		---	---	ND	---	0.00230
115	110/115	---	---	ND	---	0.0130
116	85/116/117	---	---	ND	---	0.00522
117	85/116/117	---	---	ND	---	0.00522
118		---	---	ND	---	0.00900
119	86/87/97/108/119/125	---	---	ND	---	0.0153
120		---	---	ND	---	0.00171
121		---	---	ND	---	0.00131
122		---	---	ND	---	0.00195
123		---	---	ND	---	0.00222
124	107/124	---	---	ND	---	0.00264
125	86/87/97/108/119/125	---	---	ND	---	0.0153
126		---	---	ND	---	0.00224
127		---	---	ND	---	0.00134
128	128/166	---	---	ND	---	0.00438
129	129/138/163	---	---	ND	---	0.0110
130		---	---	ND	---	0.00220
131		---	---	ND	---	0.00284
132		---	---	ND	---	0.00414
133		---	---	ND	---	0.00268
134	134/143	---	---	ND	---	0.00402
135	135/151	---	---	ND	---	0.00522

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
ng/L = Nanograms per liter

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference

REPORT OF LABORATORY ANALYSIS

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**Method 1668C Polychlorobiphenyl
Blank Analysis Results**

Lab Sample ID BLANK-106282
Filename P230528A_06

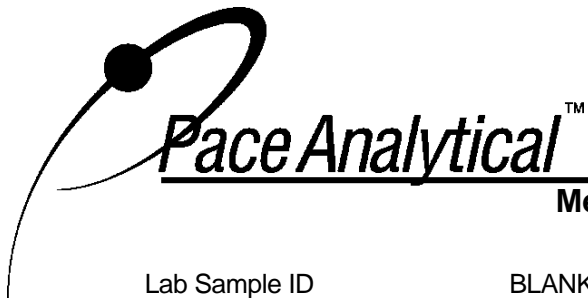
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
136		---	---	ND	---	0.00288
137		---	---	ND	---	0.00258
138	129/138/163	---	---	ND	---	0.0110
139	139/140	---	---	ND	---	0.00442
140	139/140	---	---	ND	---	0.00442
141		---	---	ND	---	0.00248
142		---	---	ND	---	0.00194
143	134/143	---	---	ND	---	0.00402
144		---	---	ND	---	0.00210
145		---	---	ND	---	0.00202
146		---	---	ND	---	0.00256
147	147/149	---	---	ND	---	0.00904
148		---	---	ND	---	0.00236
149	147/149	---	---	ND	---	0.00904
150		---	---	ND	---	0.00131
151	135/151	---	---	ND	---	0.00522
152		---	---	ND	---	0.00214
153	153/168	---	---	ND	---	0.00776
154		---	---	ND	---	0.00177
155		---	---	ND	---	0.00155
156	156/157	---	---	ND	---	0.00448
157	156/157	---	---	ND	---	0.00448
158		---	---	ND	---	0.00260
159		---	---	ND	---	0.00282
160		---	---	ND	---	0.00260
161		---	---	ND	---	0.00188
162		---	---	ND	---	0.00234
163	129/138/163	---	---	ND	---	0.0110
164		---	---	ND	---	0.00244
165		---	---	ND	---	0.00208
166	128/166	---	---	ND	---	0.00438
167		---	---	ND	---	0.00216
168	153/168	---	---	ND	---	0.00776
169		---	---	ND	---	0.00162
170		---	---	ND	---	0.00500
171	171/173	---	---	ND	---	0.00612
172		---	---	ND	---	0.0142
173	171/173	---	---	ND	---	0.00612
174		---	---	ND	---	0.00322
175		---	---	ND	---	0.00153
176		---	---	ND	---	0.00226
177		---	---	ND	---	0.00338
178		---	---	ND	---	0.00228
179		---	---	ND	---	0.00244
180	180/193	---	---	ND	---	0.00578

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
ng/L = Nanograms per liter

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference

REPORT OF LABORATORY ANALYSIS

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**Method 1668C Polychlorobiphenyl
Blank Analysis Results**

Lab Sample ID BLANK-106282
Filename P230528A_06

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
181		---	---	ND	---	0.00276
182		---	---	ND	---	0.00260
183	183/185	---	---	ND	---	0.00572
184		---	---	ND	---	0.00210
185	183/185	---	---	ND	---	0.00572
186		---	---	ND	---	0.00158
187		---	---	ND	---	0.00330
188		---	---	ND	---	0.00250
189		---	---	ND	---	0.00218
190		---	---	ND	---	0.00256
191		---	---	ND	---	0.00220
192		---	---	ND	---	0.00250
193	180/193	---	---	ND	---	0.00578
194		---	---	ND	---	0.00189
195		---	---	ND	---	0.00174
196		---	---	ND	---	0.00176
197	197/200	---	---	ND	---	0.00476
198	198/199	---	---	ND	---	0.00286
199	198/199	---	---	ND	---	0.00286
200	197/200	---	---	ND	---	0.00476
201		---	---	ND	---	0.00146
202		---	---	ND	---	0.00234
203		---	---	ND	---	0.00183
204		---	---	ND	---	0.00170
205		---	---	ND	---	0.00200
206		---	---	ND	---	0.00388
207		---	---	ND	---	0.00232
208		---	---	ND	---	0.00226
209		---	---	ND	---	0.0174

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
ng/L = Nanograms per liter

ND = Not Detected
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NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
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REPORT OF LABORATORY ANALYSIS

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**Method 1668C Polychlorobiphenyl
Blank Analysis Results**

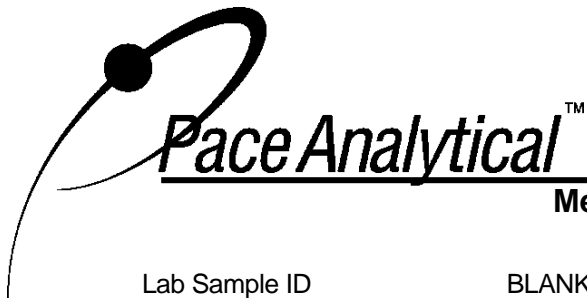
Client Sample ID CBLKQM
Lab Sample ID BLANK-106282
Filename P230528A_06

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	ND

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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**Method 1668C Polychlorobiphenyl
Blank Analysis Results**

Lab Sample ID	BLANK-106448	Matrix	Water
Filename	P230531B_07	Extracted	05/26/2023 11:40
Injected By	CVS	Analyzed	06/01/2023 03:40
Total Amount Extracted	1000 mL	Dilution	NA
ICAL ID	P230531B02		
CCal Filename(s)	P230531B_01		

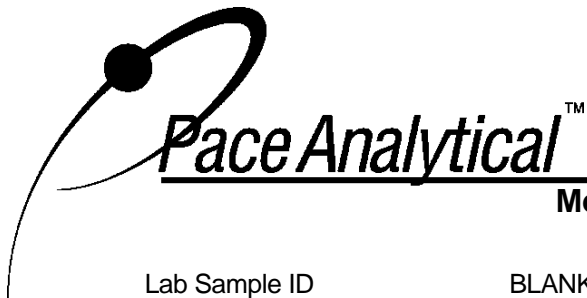
PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.204	3.04	2.0	0.926	46
13C-4-MoCB	3	12.997	3.09	2.0	1.09	55
13C-2,2'-DiCB	4	13.302	1.55	2.0	1.09	55
13C-4,4'-DiCB	15	20.392	1.60	2.0	1.27	63
13C-2,2',6-TrCB	19	17.132	1.03	2.0	1.13	57
13C-3,4,4'-TrCB	37	28.175	1.06	2.0	1.15	57
13C-2,2',6,6'-TeCB	54	20.734	0.79	2.0	0.873	44
13C-3,4,4',5-TeCB	81	35.328	0.80	2.0	1.33	67
13C-3,3',4,4'-TeCB	77	35.900	0.79	2.0	1.27	64
13C-2,2',4,6,6'-PeCB	104	26.875	1.57	2.0	0.926	46
13C-2,3,3',4,4'-PeCB	105	39.534	1.62	2.0	1.45	73
13C-2,3,4,4',5-PeCB	114	38.880	1.56	2.0	1.40	70
13C-2,3',4,4',5-PeCB	118	38.326	1.56	2.0	1.40	70
13C-2,3',4,4',5'-PeCB	123	37.991	1.59	2.0	1.42	71
13C-3,3',4,4',5-PeCB	126	42.703	1.59	2.0	1.24	62
13C-2,2',4,4',6,6'-HxCB	155	32.945	1.29	2.0	1.05	52
13C-HxCB (156/157)	156/157	45.793	1.27	4.0	2.76	69
13C-2,3',4,4',5,5'-HxCB	167	44.602	1.27	2.0	1.39	69
13C-3,3',4,4',5,5'-HxCB	169	49.079	1.29	2.0	1.20	60
13C-2,2',3,4',5,6,6'-HpCB	188	38.880	1.03	2.0	1.47	73
13C-2,3,3',4,4',5,5'-HpCB	189	51.647	1.08	2.0	1.68	84
13C-2,2',3,3',5,5',6,6'-OxCB	202	44.368	0.90	2.0	1.52	76
13C-2,3,3',4,4',5,5',6-OxCB	205	54.233	0.89	2.0	1.50	75
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.000	0.79	2.0	1.38	69
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.173	0.79	2.0	1.52	76
13C-DeCB	209	57.638	0.71	2.0	1.29	64
Cleanup Standards						
13C-2,4,4'-TrCB	28	23.813	1.04	2.0	1.28	64
13C-2,3,3',5,5'-PeCB	111	35.946	1.55	2.0	1.17	58
13C-2,2',3,3',5,5',6-HpCB	178	41.982	1.06	2.0	1.11	56
Recovery Standards						
13C-2,5-DiCB	9	15.772	1.62	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.823	0.79	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.146	1.59	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.529	1.25	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OxCB	194	53.759	0.90	2.0	NA	NA

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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**Method 1668C Polychlorobiphenyl
Blank Analysis Results**

Lab Sample ID BLANK-106448
Filename P230531B_07

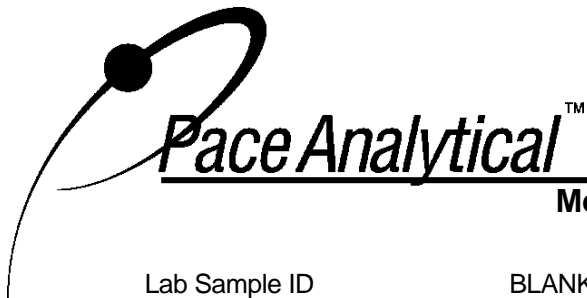
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.00558
2		---	---	ND	---	0.00508
3		---	---	ND	---	0.00440
4		---	---	ND	---	0.00752
5		16.789	1.11	---	0.00578	0.00183
6		---	---	ND	---	0.00938
7		---	---	ND	---	0.00930
8		---	---	ND	---	0.0123
9		---	---	ND	---	0.00246
10		---	---	ND	---	0.00292
11		---	---	ND	---	0.145
12	12/13	---	---	ND	---	0.00526
13	12/13	---	---	ND	---	0.00526
14		---	---	ND	---	0.00175
15		---	---	ND	---	0.00604
16		---	---	ND	---	0.00616
17		---	---	ND	---	0.00516
18	18/30	---	---	ND	---	0.0114
19		---	---	ND	---	0.00834
20	20/28	---	---	ND	---	0.0182
21	21/33	---	---	ND	---	0.0131
22		---	---	ND	---	0.00758
23		---	---	ND	---	0.00159
24		---	---	ND	---	0.00191
25		---	---	ND	---	0.00286
26	26/29	---	---	ND	---	0.00458
27		---	---	ND	---	0.00202
28	20/28	---	---	ND	---	0.0182
29	26/29	---	---	ND	---	0.00458
30	18/30	---	---	ND	---	0.0114
31		---	---	ND	---	0.0176
32		---	---	ND	---	0.00732
33	21/33	---	---	ND	---	0.0131
34		---	---	ND	---	0.00162
35		---	---	ND	---	0.00320
36		---	---	ND	---	0.00202
37		---	---	ND	---	0.00422
38		---	---	ND	---	0.00149
39		---	---	ND	---	0.00164
40	40/41/71	---	---	ND	---	0.00812
41	40/41/71	---	---	ND	---	0.00812
42		---	---	ND	---	0.00440
43	43/73	---	---	ND	---	0.00392
44	44/47/65	---	---	ND	---	0.0187
45	45/51	---	---	ND	---	0.00576

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
ng/L = Nanograms per liter

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
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REPORT OF LABORATORY ANALYSIS

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**Method 1668C Polychlorobiphenyl
Blank Analysis Results**

Lab Sample ID BLANK-106448
Filename P230531B_07

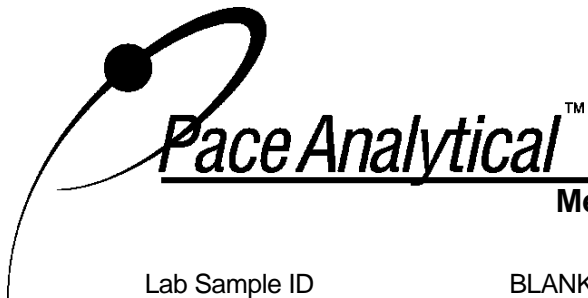
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
46		---	---	ND	---	0.00228
47	44/47/65	---	---	ND	---	0.0187
48		---	---	ND	---	0.00292
49	49/69	---	---	ND	---	0.00676
50	50/53	---	---	ND	---	0.00380
51	45/51	---	---	ND	---	0.00576
52		---	---	ND	---	0.0166
53	50/53	---	---	ND	---	0.00380
54		---	---	ND	---	0.00161
55		---	---	ND	---	0.00216
56		---	---	ND	---	0.0101
57		---	---	ND	---	0.00150
58		---	---	ND	---	0.00191
59	59/62/75	---	---	ND	---	0.00416
60		---	---	ND	---	0.00344
61	61/70/74/76	---	---	ND	---	0.0322
62	59/62/75	---	---	ND	---	0.00416
63		---	---	ND	---	0.00175
64		---	---	ND	---	0.00562
65	44/47/65	---	---	ND	---	0.0187
66		---	---	ND	---	0.0220
67		---	---	ND	---	0.00226
68		---	---	ND	---	0.00252
69	49/69	---	---	ND	---	0.00676
70	61/70/74/76	---	---	ND	---	0.0322
71	40/41/71	---	---	ND	---	0.00812
72		---	---	ND	---	0.00177
73	43/73	---	---	ND	---	0.00392
74	61/70/74/76	---	---	ND	---	0.0322
75	59/62/75	---	---	ND	---	0.00416
76	61/70/74/76	---	---	ND	---	0.0322
77		---	---	ND	---	0.00266
78		---	---	ND	---	0.00232
79		---	---	ND	---	0.00234
80		---	---	ND	---	0.00214
81		---	---	ND	---	0.00179
82		---	---	ND	---	0.00258
83		---	---	ND	---	0.00240
84		---	---	ND	---	0.0133
85	85/116/117	---	---	ND	---	0.00522
86	86/87/97/108/119/125	---	---	ND	---	0.0153
87	86/87/97/108/119/125	---	---	ND	---	0.0153
88	88/91	---	---	ND	---	0.00496
89		---	---	ND	---	0.00314
90	90/101/113	---	---	ND	---	0.0120

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
ng/L = Nanograms per liter

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference

REPORT OF LABORATORY ANALYSIS

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**Method 1668C Polychlorobiphenyl
Blank Analysis Results**

Lab Sample ID BLANK-106448
Filename P230531B_07

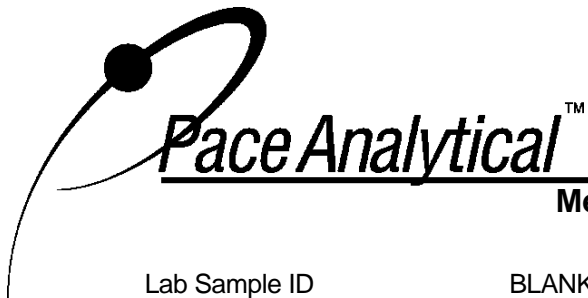
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
91	88/91	---	---	ND	---	0.00496
92		---	---	ND	---	0.00394
93	93/98/100/102	---	---	ND	---	0.00568
94		---	---	ND	---	0.00190
95		---	---	ND	---	0.00874
96		---	---	ND	---	0.00316
97	86/87/97/108/119/125	---	---	ND	---	0.0153
98	93/98/100/102	---	---	ND	---	0.00568
99		---	---	ND	---	0.00594
100	93/98/100/102	---	---	ND	---	0.00568
101	90/101/113	---	---	ND	---	0.0120
102	93/98/100/102	---	---	ND	---	0.00568
103		---	---	ND	---	0.00197
104		---	---	ND	---	0.00153
105		---	---	ND	---	0.00570
106		---	---	ND	---	0.00179
107	107/124	---	---	ND	---	0.00264
108	86/87/97/108/119/125	---	---	ND	---	0.0153
109		---	---	ND	---	0.00200
110	110/115	---	---	ND	---	0.0130
111		---	---	ND	---	0.00206
112		---	---	ND	---	0.00178
113	90/101/113	---	---	ND	---	0.0120
114		---	---	ND	---	0.00230
115	110/115	---	---	ND	---	0.0130
116	85/116/117	---	---	ND	---	0.00522
117	85/116/117	---	---	ND	---	0.00522
118		---	---	ND	---	0.00900
119	86/87/97/108/119/125	---	---	ND	---	0.0153
120		---	---	ND	---	0.00171
121		---	---	ND	---	0.00131
122		---	---	ND	---	0.00195
123		---	---	ND	---	0.00222
124	107/124	---	---	ND	---	0.00264
125	86/87/97/108/119/125	---	---	ND	---	0.0153
126		---	---	ND	---	0.00224
127		---	---	ND	---	0.00134
128	128/166	---	---	ND	---	0.00438
129	129/138/163	---	---	ND	---	0.0110
130		---	---	ND	---	0.00220
131		---	---	ND	---	0.00284
132		---	---	ND	---	0.00414
133		---	---	ND	---	0.00268
134	134/143	---	---	ND	---	0.00402
135	135/151	---	---	ND	---	0.00522

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
ng/L = Nanograms per liter

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference

REPORT OF LABORATORY ANALYSIS

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**Method 1668C Polychlorobiphenyl
Blank Analysis Results**

Lab Sample ID BLANK-106448
Filename P230531B_07

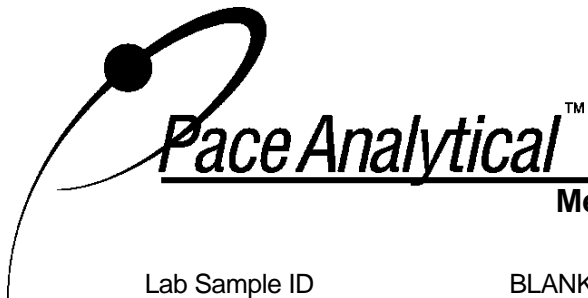
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
136		---	---	ND	---	0.00288
137		---	---	ND	---	0.00258
138	129/138/163	---	---	ND	---	0.0110
139	139/140	---	---	ND	---	0.00442
140	139/140	---	---	ND	---	0.00442
141		---	---	ND	---	0.00248
142		---	---	ND	---	0.00194
143	134/143	---	---	ND	---	0.00402
144		---	---	ND	---	0.00210
145		---	---	ND	---	0.00202
146		---	---	ND	---	0.00256
147	147/149	---	---	ND	---	0.00904
148		---	---	ND	---	0.00236
149	147/149	---	---	ND	---	0.00904
150		---	---	ND	---	0.00131
151	135/151	---	---	ND	---	0.00522
152		---	---	ND	---	0.00214
153	153/168	---	---	ND	---	0.00776
154		---	---	ND	---	0.00177
155		---	---	ND	---	0.00155
156	156/157	---	---	ND	---	0.00448
157	156/157	---	---	ND	---	0.00448
158		---	---	ND	---	0.00260
159		---	---	ND	---	0.00282
160		---	---	ND	---	0.00260
161		---	---	ND	---	0.00188
162		---	---	ND	---	0.00234
163	129/138/163	---	---	ND	---	0.0110
164		---	---	ND	---	0.00244
165		---	---	ND	---	0.00208
166	128/166	---	---	ND	---	0.00438
167		---	---	ND	---	0.00216
168	153/168	---	---	ND	---	0.00776
169		---	---	ND	---	0.00162
170		---	---	ND	---	0.00500
171	171/173	---	---	ND	---	0.00612
172		---	---	ND	---	0.0142
173	171/173	---	---	ND	---	0.00612
174		---	---	ND	---	0.00322
175		---	---	ND	---	0.00153
176		---	---	ND	---	0.00226
177		---	---	ND	---	0.00338
178		---	---	ND	---	0.00228
179		---	---	ND	---	0.00244
180	180/193	---	---	ND	---	0.00578

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
ng/L = Nanograms per liter

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference

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**Method 1668C Polychlorobiphenyl
Blank Analysis Results**

Lab Sample ID BLANK-106448
Filename P230531B_07

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
181		---	---	ND	---	0.00276
182		---	---	ND	---	0.00260
183	183/185	---	---	ND	---	0.00572
184		---	---	ND	---	0.00210
185	183/185	---	---	ND	---	0.00572
186		---	---	ND	---	0.00158
187		---	---	ND	---	0.00330
188		---	---	ND	---	0.00250
189		---	---	ND	---	0.00218
190		---	---	ND	---	0.00256
191		---	---	ND	---	0.00220
192		---	---	ND	---	0.00250
193	180/193	---	---	ND	---	0.00578
194		---	---	ND	---	0.00189
195		---	---	ND	---	0.00174
196		---	---	ND	---	0.00176
197	197/200	---	---	ND	---	0.00476
198	198/199	---	---	ND	---	0.00286
199	198/199	---	---	ND	---	0.00286
200	197/200	---	---	ND	---	0.00476
201		---	---	ND	---	0.00146
202		---	---	ND	---	0.00234
203		---	---	ND	---	0.00183
204		---	---	ND	---	0.00170
205		---	---	ND	---	0.00200
206		---	---	ND	---	0.00388
207		---	---	ND	---	0.00232
208		---	---	ND	---	0.00226
209		---	---	ND	---	0.0174

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
ng/L = Nanograms per liter

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference

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**Method 1668C Polychlorobiphenyl
Blank Analysis Results**

Client Sample ID CBLKSL
Lab Sample ID BLANK-106448
Filename P230531B_07

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	ND

ND = Not Detected

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Method 1668C Polychlorobiphenyls Laboratory Control Spike Analysis Results

Lab Sample ID	LCS-106283	Matrix	Water
Filename	P230529A_03	Dilution	NA
Total Amount Extracted	1000 mL	Extracted	05/23/2023 12:15
ICAL ID	P230529A02	Analyzed	05/29/2023 04:32
CCal Filename(s)	P230529A_01	Injected By	BAL
Method Blank ID	BLANK-106282		

PCB Isomer	Native Analytes			Labeled Analytes		
	Spiked (ng)	Found (ng)	% Recovery	Spiked (ng)	Found (ng)	% Recovery
1	1.0	1.04	104	2.0	1.20	60
3	1.0	0.966	97	2.0	1.44	72
4	1.0	0.996	100	2.0	1.41	71
15	1.0	1.00	100	2.0	1.60	80
19	1.0	1.03	103	2.0	1.50	75
37	1.0	0.892	89	2.0	1.54	77
54	1.0	0.983	98	2.0	1.34	67
81	1.0	0.838	84	2.0	1.65	82
77	1.0	0.832	83	2.0	1.62	81
104	1.0	0.912	91	2.0	1.37	69
105	1.0	0.842	84	2.0	1.52	76
114	1.0	0.801	80	2.0	1.48	74
118	1.0	0.823	82	2.0	1.48	74
123	1.0	0.838	84	2.0	1.47	73
126	1.0	0.860	86	2.0	1.39	70
155	1.0	0.853	85	2.0	1.51	76
156/157	2.0	1.84	92	4.0	2.70	67
167	1.0	0.909	91	2.0	1.39	69
169	1.0	0.913	91	2.0	1.61	80
188	1.0	0.897	90	2.0	1.62	81
189	1.0	0.911	91	2.0	1.64	82
202	1.0	0.945	95	2.0	1.40	70
205	1.0	0.920	92	2.0	1.71	85
206	1.0	0.904	90	2.0	1.64	82
208	1.0	0.949	95	2.0	1.77	88
209	1.0	0.918	92	2.0	1.57	78

R = Recovery outside of method 1668C control limits
 Nn = Result obtained from alternate analysis
 ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
 * = See Discussion
 ng = Nanograms
 I = Interference

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Method 1668C Polychlorobiphenyls Laboratory Control Spike Analysis Results

Lab Sample ID	LCS-106449	Matrix	Water
Filename	P230531B_03	Dilution	NA
Total Amount Extracted	1000 mL	Extracted	05/26/2023 11:40
ICAL ID	P230531B02	Analyzed	05/31/2023 23:28
CCal Filename(s)	P230531B_01	Injected By	CVS
Method Blank ID	BLANK-106448		

PCB Isomer	Native Analytes			Labeled Analytes		
	Spiked (ng)	Found (ng)	% Recovery	Spiked (ng)	Found (ng)	% Recovery
1	1.0	1.06	106	2.0	1.05	52
3	1.0	1.02	102	2.0	1.23	61
4	1.0	1.01	101	2.0	1.17	59
15	1.0	1.02	102	2.0	1.35	67
19	1.0	0.981	98	2.0	1.22	61
37	1.0	0.935	94	2.0	1.32	66
54	1.0	0.975	97	2.0	0.968	48
81	1.0	0.902	90	2.0	1.40	70
77	1.0	0.861	86	2.0	1.38	69
104	1.0	0.854	85	2.0	1.13	56
105	1.0	0.918	92	2.0	1.43	71
114	1.0	0.853	85	2.0	1.39	70
118	1.0	0.875	87	2.0	1.38	69
123	1.0	0.889	89	2.0	1.40	70
126	1.0	0.947	95	2.0	1.26	63
155	1.0	0.797	80	2.0	1.25	63
156/157	2.0	1.89	94	4.0	2.69	67
167	1.0	0.926	93	2.0	1.40	70
169	1.0	0.968	97	2.0	1.22	61
188	1.0	0.907	91	2.0	1.44	72
189	1.0	0.915	92	2.0	1.59	79
202	1.0	0.941	94	2.0	1.43	72
205	1.0	0.937	94	2.0	1.43	72
206	1.0	0.899	90	2.0	1.31	66
208	1.0	0.936	94	2.0	1.46	73
209	1.0	0.858	86	2.0	1.27	64

R = Recovery outside of method 1668C control limits
 Nn = Result obtained from alternate analysis
 ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
 * = See Discussion
 ng = Nanograms
 I = Interference

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Method 1668C Polychlorobiphenyls Laboratory Control Spike Analysis Results

Lab Sample ID	LCSD-106284	Matrix	Water
Filename	P230529A_04	Dilution	NA
Total Amount Extracted	1000 mL	Extracted	05/23/2023 12:15
ICAL ID	P230529A02	Analyzed	05/29/2023 05:35
CCal Filename(s)	P230529A_01	Injected By	BAL
Method Blank ID	BLANK-106282		

PCB Isomer	Native Analytes			Labeled Analytes		
	Spiked (ng)	Found (ng)	% Recovery	Spiked (ng)	Found (ng)	% Recovery
1	1.0	1.06	106	2.0	1.29	64
3	1.0	0.978	98	2.0	1.58	79
4	1.0	0.975	98	2.0	1.55	77
15	1.0	1.02	102	2.0	1.81	90
19	1.0	1.05	105	2.0	1.66	83
37	1.0	0.931	93	2.0	1.73	87
54	1.0	1.00	100	2.0	1.49	74
81	1.0	0.887	89	2.0	1.78	89
77	1.0	0.884	88	2.0	1.75	88
104	1.0	0.950	95	2.0	1.58	79
105	1.0	0.941	94	2.0	1.63	82
114	1.0	0.846	85	2.0	1.66	83
118	1.0	0.863	86	2.0	1.65	83
123	1.0	0.947	95	2.0	1.60	80
126	1.0	0.907	91	2.0	1.55	77
155	1.0	0.928	93	2.0	1.74	87
156/157	2.0	1.91	95	4.0	3.13	78
167	1.0	0.953	95	2.0	1.58	79
169	1.0	0.953	95	2.0	1.80	90
188	1.0	0.940	94	2.0	1.82	91
189	1.0	0.927	93	2.0	1.86	93
202	1.0	1.03	103	2.0	1.53	77
205	1.0	0.932	93	2.0	1.92	96
206	1.0	0.906	91	2.0	1.87	94
208	1.0	0.966	97	2.0	1.95	97
209	1.0	0.935	93	2.0	1.79	89

R = Recovery outside of method 1668C control limits
 Nn = Result obtained from alternate analysis
 ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
 * = See Discussion
 ng = Nanograms
 I = Interference

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Method 1668C Polychlorobiphenyls Laboratory Control Spike Analysis Results

Lab Sample ID	LCSD-106450	Matrix	Water
Filename	P230531B_04	Dilution	NA
Total Amount Extracted	1000 mL	Extracted	05/26/2023 11:40
ICAL ID	P230531B02	Analyzed	06/01/2023 00:31
CCal Filename(s)	P230531B_01	Injected By	CVS
Method Blank ID	BLANK-106448		

PCB Isomer	Native Analytes			Labeled Analytes		
	Spiked (ng)	Found (ng)	% Recovery	Spiked (ng)	Found (ng)	% Recovery
1	1.0	1.06	106	2.0	1.16	58
3	1.0	1.02	102	2.0	1.40	70
4	1.0	1.01	101	2.0	1.35	67
15	1.0	1.01	101	2.0	1.59	79
19	1.0	0.986	99	2.0	1.44	72
37	1.0	0.955	96	2.0	1.48	74
54	1.0	0.971	97	2.0	1.11	55
81	1.0	0.925	93	2.0	1.62	81
77	1.0	0.908	91	2.0	1.53	76
104	1.0	0.864	86	2.0	1.26	63
105	1.0	0.934	93	2.0	1.68	84
114	1.0	0.873	87	2.0	1.64	82
118	1.0	0.925	92	2.0	1.60	80
123	1.0	0.915	92	2.0	1.67	84
126	1.0	0.965	96	2.0	1.42	71
155	1.0	0.823	82	2.0	1.37	68
156/157	2.0	1.95	98	4.0	3.09	77
167	1.0	0.950	95	2.0	1.60	80
169	1.0	0.961	96	2.0	1.37	68
188	1.0	0.900	90	2.0	1.62	81
189	1.0	0.954	95	2.0	1.77	89
202	1.0	0.973	97	2.0	1.61	81
205	1.0	0.939	94	2.0	1.60	80
206	1.0	0.917	92	2.0	1.47	74
208	1.0	0.946	95	2.0	1.64	82
209	1.0	0.835	84	2.0	1.47	73

R = Recovery outside of method 1668C control limits
 Nn = Result obtained from alternate analysis
 ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
 * = See Discussion
 ng = Nanograms
 I = Interference

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Method 1668C

Spike Recovery Relative Percent Difference (RPD) Results

Client PACE Wisconsin

Spike 1 ID LCS-106283
Spike 1 Filename P230529A_03

Spike 2 ID LCSD-106284
Spike 2 Filename P230529A_04

Compound	IUPAC	Spike 1 %REC	Spike 2 %REC	%RPD
2-MoCB	1	104	106	1.9
4-MoCB	3	97	98	1.0
2,2'-DiCB	4	100	98	2.0
4,4'-DiCB	15	100	102	2.0
2,2',6-TrCB	19	103	105	1.9
3,4,4'-TrCB	37	89	93	4.4
2,2',6,6'-TeCB	54	98	100	2.0
3,3',4,4'-TeCB	77	83	88	5.8
3,4,4',5-TeCB	81	84	89	5.8
2,2',4,6,6'-PeCB	104	91	95	4.3
2,3,3',4,4'-PeCB	105	84	94	11.2
2,3,4,4',5-PeCB	114	80	85	6.1
2,3',4,4',5-PeCB	118	82	86	4.8
2,3,4,4',5'-PeCB	123	84	95	12.3
3,3',4,4',5-PeCB	126	86	91	5.6
2,2',4,4',6,6'-HxCB	155	85	93	9.0
(156/157)	156/157	92	95	3.2
2,3',4,4',5,5'-HxCB	167	91	95	4.3
3,3',4,4',5,5'-HxCB	169	91	95	4.3
2,2',3,4',5,6,6'-HpCB	188	90	94	4.3
2,3,3',4,4',5,5'-HpCB	189	91	93	2.2
2,2',3,3',5,5',6,6'-OcCB	202	95	103	8.1
2,3,3',4,4',5,5',6-OcCB	205	92	93	1.1
2,2',3,3',4,4',5,5',6-NoCB	206	90	91	1.1
2,2',3,3',4,4',5,5',6,6'-NoCB	208	95	97	2.1
Decachlorobiphenyl	209	92	93	1.1

%REC = Percent Recovered

RPD = The difference between the two values divided by the mean value

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Method 1668C

Spike Recovery Relative Percent Difference (RPD) Results

Client PACE Wisconsin

Spike 1 ID LCS-106449
Spike 1 Filename P230531B_03

Spike 2 ID LCSD-106450
Spike 2 Filename P230531B_04

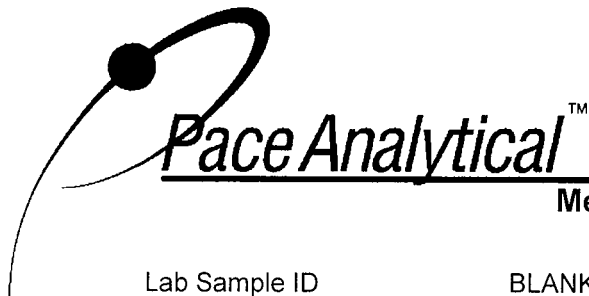
Compound	IUPAC	Spike 1 %REC	Spike 2 %REC	%RPD
2-MoCB	1	106	106	0.0
4-MoCB	3	102	102	0.0
2,2'-DiCB	4	101	101	0.0
4,4'-DiCB	15	102	101	1.0
2,2',6-TrCB	19	98	99	1.0
3,4,4'-TrCB	37	94	96	2.1
2,2',6,6'-TeCB	54	97	97	0.0
3,3',4,4'-TeCB	77	86	91	5.6
3,4,4',5-TeCB	81	90	93	3.3
2,2',4,6,6'-PeCB	104	85	86	1.2
2,3,3',4,4'-PeCB	105	92	93	1.1
2,3,4,4',5-PeCB	114	85	87	2.3
2,3',4,4',5-PeCB	118	87	92	5.6
2,3,4,4',5'-PeCB	123	89	92	3.3
3,3',4,4',5-PeCB	126	95	96	1.0
2,2',4,4',6,6'-HxCB	155	80	82	2.5
(156/157)	156/157	94	98	4.2
2,3',4,4',5,5'-HxCB	167	93	95	2.1
3,3',4,4',5,5'-HxCB	169	97	96	1.0
2,2',3,4',5,6,6'-HpCB	188	91	90	1.1
2,3,3',4,4',5,5'-HpCB	189	92	95	3.2
2,2',3,3',5,5',6,6'-OcCB	202	94	97	3.1
2,3,3',4,4',5,5',6-OcCB	205	94	94	0.0
2,2',3,3',4,4',5,5',6-NoCB	206	90	92	2.2
2,2',3,3',4,4',5,5',6,6'-NoCB	208	94	95	1.1
Decachlorobiphenyl	209	86	84	2.4

%REC = Percent Recovered

RPD = The difference between the two values divided by the mean value

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**Method 1668C Polychlorobiphenyl
Blank Analysis Results**

Lab Sample ID	BLANK-106282	Matrix	Water
Filename	P230528A_06	Extracted	05/23/2023 12:15
Injected By	BAL	Analyzed	05/28/2023 18:02
Total Amount Extracted	1000 mL	Dilution	NA
ICAL ID	P230528A02		
CCal Filename(s)	P230528A_01		

PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
------------	-------	----	-------	------------	------------	------------

Labeled Analytes

13C-2-MoCB	1	10.238	3.07	2.0	1.04	52
13C-4-MoCB	3	13.020	3.23	2.0	1.29	65
13C-2,2'-DiCB	4	13.326	1.54	2.0	1.33	66
13C-4,4'-DiCB	15	20.415	1.60	2.0	1.42	71
13C-2,2',6-TeCB	19	17.154	1.06	2.0	1.33	67
13C-3,4,4'-TeCB	37	28.192	1.08	2.0	1.53	77
13C-2,2',6,6'-TeCB	54	20.766	0.80	2.0	1.22	61
13C-3,4,4',5-TeCB	81	35.346	0.80	2.0	1.62	81
13C-3,3',4,4'-TeCB	77	35.934	0.79	2.0	1.60	80
13C-2,2',4,6,6'-PeCB	104	26.893	1.63	2.0	1.27	63
13C-2,3,3',4,4'-PeCB	105	39.556	1.59	2.0	1.53	76
13C-2,3,4,4',5-PeCB	114	38.902	1.62	2.0	1.53	76
13C-2,3',4,4',5-PeCB	118	38.348	1.57	2.0	1.57	78
13C-2,3',4,4',5'-PeCB	123	38.013	1.60	2.0	1.50	75
13C-3,3',4,4',5-PeCB	126	42.725	1.63	2.0	1.33	67
13C-2,2',4,4',6,6'-HxCB	155	32.979	1.24	2.0	1.45	73
13C-HxCB (156/157)	156/157	45.816	1.28	4.0	2.69	67
13C-2,3',4,4',5,5'-HxCB	167	44.642	1.27	2.0	1.40	70
13C-3,3',4,4',5,5'-HxCB	169	49.103	1.28	2.0	1.55	77
13C-2,2',3,4',5,6,6'-HpCB	188	38.902	1.01	2.0	1.65	82
13C-2,3,3',4,4',5,5'-HpCB	189	51.675	1.07	2.0	1.71	86
13C-2,2',3,3',5,5',6,6'-OcCB	202	44.407	0.90	2.0	1.46	73
13C-2,3,3',4,4',5,5',6-OcCB	205	54.284	0.89	2.0	1.71	86
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.051	0.80	2.0	1.68	84
13C-2,2',3,3',4,4',5,5',6,6'-NoCB	208	51.201	0.79	2.0	1.76	88
13C-DeCB	209	57.689	0.72	2.0	1.71	85

Cleanup Standards

13C-2,4,4'-TrCB	28	23.845	1.04	2.0	1.60	80
13C-2,3,3',5,5'-PeCB	111	35.980	1.53	2.0	1.51	75
13C-2,2',3,3',5,5',6-HpCB	178	42.021	1.06	2.0	1.45	73

Recovery Standards

13C-2,5-DiCB	9	15.795	1.60	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.841	0.77	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.180	1.59	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.551	1.27	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	53.809	0.89	2.0	NA	NA

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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Report No.....10654073



Method 1668C Polychlorobiphenyl
Blank Analysis Results

Lab Sample ID BLANK-106282
Filename P230528A_06

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.0400
2		---	---	ND	---	0.0400
3		---	---	ND	---	0.0400
4		---	---	ND	---	0.0400
5		---	---	ND	---	0.0400
6		---	---	ND	---	0.0400
7		---	---	ND	---	0.0400
8		---	---	ND	---	0.0400
9		---	---	ND	---	0.0400
10		---	---	ND	---	0.0400
11		---	---	ND	---	0.392
12	12/13	---	---	ND	---	0.0800
13	12/13	---	---	ND	---	0.0800
14		---	---	ND	---	0.0400
15		---	---	ND	---	0.0528
16		---	---	ND	---	0.0400
17		---	---	ND	---	0.0400
18	18/30	---	---	ND	---	0.0800
19		---	---	ND	---	0.0400
20	20/28	---	---	ND	---	0.206
21	21/33	---	---	ND	---	0.216
22		---	---	ND	---	0.152
23		---	---	ND	---	0.0400
24		---	---	ND	---	0.0400
25		---	---	ND	---	0.0400
26	26/29	---	---	ND	---	0.0800
27		---	---	ND	---	0.0400
28	20/28	---	---	ND	---	0.206
29	26/29	---	---	ND	---	0.0800
30	18/30	---	---	ND	---	0.0800
31		---	---	ND	---	0.208
32		---	---	ND	---	0.0400
33	21/33	---	---	ND	---	0.216
34		---	---	ND	---	0.0400
35		---	---	ND	---	0.0400
36		---	---	ND	---	0.0400
37		---	---	ND	---	0.0848
38		---	---	ND	---	0.0400
39		---	---	ND	---	0.0400
40	40/41/71	---	---	ND	---	0.120
41	40/41/71	---	---	ND	---	0.120
42		---	---	ND	---	0.0400
43	43/73	---	---	ND	---	0.0800
44	44/47/65	---	---	ND	---	0.120
45	45/51	---	---	ND	---	0.0800

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
ng/L = Nanograms per liter

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference

REPORT OF LABORATORY ANALYSIS

Report No.....10654073

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Method 1668C Polychlorobiphenyl
Blank Analysis Results

Lab Sample ID BLANK-106282
Filename P230528A_06

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
46		---	---	ND	---	0.0400
47	44/47/65	---	---	ND	---	0.120
48		---	---	ND	---	0.0400
49	49/69	---	---	ND	---	0.0800
50	50/53	---	---	ND	---	0.0800
51	45/51	---	---	ND	---	0.0800
52		---	---	ND	---	0.206
53	50/53	---	---	ND	---	0.0800
54		---	---	ND	---	0.0400
55		---	---	ND	---	0.0400
56		---	---	ND	---	0.0400
57		---	---	ND	---	0.0400
58		---	---	ND	---	0.0400
59	59/62/75	---	---	ND	---	0.120
60		---	---	ND	---	0.0400
61	61/70/74/76	---	---	ND	---	0.160
62	59/62/75	---	---	ND	---	0.120
63		---	---	ND	---	0.0400
64		---	---	ND	---	0.0400
65	44/47/65	---	---	ND	---	0.120
66		---	---	ND	---	0.0944
67		---	---	ND	---	0.0400
68		---	---	ND	---	0.0400
69	49/69	---	---	ND	---	0.0800
70	61/70/74/76	---	---	ND	---	0.160
71	40/41/71	---	---	ND	---	0.120
72		---	---	ND	---	0.0400
73	43/73	---	---	ND	---	0.0800
74	61/70/74/76	---	---	ND	---	0.160
75	59/62/75	---	---	ND	---	0.120
76	61/70/74/76	---	---	ND	---	0.160
77		---	---	ND	---	0.0400
78		---	---	ND	---	0.0400
79		---	---	ND	---	0.0400
80		---	---	ND	---	0.0400
81		---	---	ND	---	0.0400
82		---	---	ND	---	0.0400
83		---	---	ND	---	0.0400
84		---	---	ND	---	0.0400
85	85/116/117	---	---	ND	---	0.120
86	86/87/97/108/119/125	---	---	ND	---	0.240
87	86/87/97/108/119/125	---	---	ND	---	0.240
88	88/91	---	---	ND	---	0.0800
89		---	---	ND	---	0.0400
90	90/101/113	---	---	ND	---	0.120

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
ng/L = Nanograms per liter

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
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X = Outside QC Limits
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REPORT OF LABORATORY ANALYSIS

Report No.....10654073

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Method 1668C Polychlorobiphenyl Blank Analysis Results

Lab Sample ID BLANK-106282
Filename P230528A_06

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
91	88/91	---	---	ND	---	0.0800
92		---	---	ND	---	0.0400
93	93/98/100/102	---	---	ND	---	0.160
94		---	---	ND	---	0.0400
95		---	---	ND	---	0.112
96		---	---	ND	---	0.0400
97	86/87/97/108/119/125	---	---	ND	---	0.240
98	93/98/100/102	---	---	ND	---	0.160
99		---	---	ND	---	0.0400
100	93/98/100/102	---	---	ND	---	0.160
101	90/101/113	---	---	ND	---	0.120
102	93/98/100/102	---	---	ND	---	0.160
103		---	---	ND	---	0.0400
104		---	---	ND	---	0.0400
105		---	---	ND	---	0.0400
106		---	---	ND	---	0.0400
107	107/124	---	---	ND	---	0.0800
108	86/87/97/108/119/125	---	---	ND	---	0.240
109		---	---	ND	---	0.0400
110	110/115	---	---	ND	---	0.0800
111		---	---	ND	---	0.0400
112		---	---	ND	---	0.0400
113	90/101/113	---	---	ND	---	0.120
114		---	---	ND	---	0.0400
115	110/115	---	---	ND	---	0.0800
116	85/116/117	---	---	ND	---	0.120
117	85/116/117	---	---	ND	---	0.120
118		---	---	ND	---	0.0624
119	86/87/97/108/119/125	---	---	ND	---	0.240
120		---	---	ND	---	0.0400
121		---	---	ND	---	0.0400
122		---	---	ND	---	0.0400
123		---	---	ND	---	0.0400
124	107/124	---	---	ND	---	0.0800
125	86/87/97/108/119/125	---	---	ND	---	0.240
126		---	---	ND	---	0.0400
127		---	---	ND	---	0.0400
128	128/166	---	---	ND	---	0.0800
129	129/138/163	---	---	ND	---	0.120
130		---	---	ND	---	0.0400
131		---	---	ND	---	0.0400
132		---	---	ND	---	0.0400
133		---	---	ND	---	0.0400
134	134/143	---	---	ND	---	0.0800
135	135/151	---	---	ND	---	0.0800

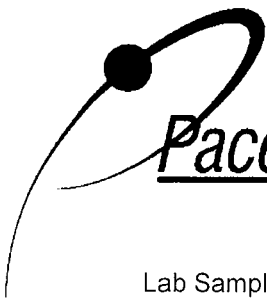
Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
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Report No.....10654073



Method 1668C Polychlorobiphenyl
Blank Analysis Results

Lab Sample ID BLANK-106282
Filename P230528A_06

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
136		---	---	ND	---	0.0400
137		---	---	ND	---	0.0400
138	129/138/163	---	---	ND	---	0.120
139	139/140	---	---	ND	---	0.0800
140	139/140	---	---	ND	---	0.0800
141		---	---	ND	---	0.0400
142		---	---	ND	---	0.0400
143	134/143	---	---	ND	---	0.0800
144		---	---	ND	---	0.0400
145		---	---	ND	---	0.0400
146		---	---	ND	---	0.0400
147	147/149	---	---	ND	---	0.0800
148		---	---	ND	---	0.0400
149	147/149	---	---	ND	---	0.0800
150		---	---	ND	---	0.0400
151	135/151	---	---	ND	---	0.0800
152		---	---	ND	---	0.0400
153	153/168	---	---	ND	---	0.0800
154		---	---	ND	---	0.0400
155		---	---	ND	---	0.0400
156	156/157	---	---	ND	---	0.0800
157	156/157	---	---	ND	---	0.0800
158		---	---	ND	---	0.0400
159		---	---	ND	---	0.0400
160		---	---	ND	---	0.0400
161		---	---	ND	---	0.0400
162		---	---	ND	---	0.0400
163	129/138/163	---	---	ND	---	0.120
164		---	---	ND	---	0.0400
165		---	---	ND	---	0.0400
166	128/166	---	---	ND	---	0.0800
167		---	---	ND	---	0.0400
168	153/168	---	---	ND	---	0.0800
169		---	---	ND	---	0.0400
170		---	---	ND	---	0.0400
171	171/173	---	---	ND	---	0.0800
172		---	---	ND	---	0.0400
173	171/173	---	---	ND	---	0.0800
174		---	---	ND	---	0.0400
175		---	---	ND	---	0.0400
176		---	---	ND	---	0.0400
177		---	---	ND	---	0.0400
178		---	---	ND	---	0.0400
179		---	---	ND	---	0.0400
180	180/193	---	---	ND	---	0.0800

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
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Report No.....10654073

**Method 1668C Polychlorobiphenyl
Blank Analysis Results**

Lab Sample ID BLANK-106282
Filename P230528A_06

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
181		---	---	ND	---	0.0400
182		---	---	ND	---	0.0400
183	183/185	---	---	ND	---	0.0800
184		---	---	ND	---	0.0400
185	183/185	---	---	ND	---	0.0800
186		---	---	ND	---	0.0400
187		---	---	ND	---	0.0400
188		---	---	ND	---	0.0400
189		---	---	ND	---	0.0400
190		---	---	ND	---	0.0400
191		---	---	ND	---	0.0400
192		---	---	ND	---	0.0400
193	180/193	---	---	ND	---	0.0800
194		---	---	ND	---	0.0400
195		---	---	ND	---	0.0400
196		---	---	ND	---	0.0400
197	197/200	---	---	ND	---	0.0800
198	198/199	---	---	ND	---	0.0800
199	198/199	---	---	ND	---	0.0800
200	197/200	---	---	ND	---	0.0800
201		---	---	ND	---	0.0400
202		---	---	ND	---	0.0400
203		---	---	ND	---	0.0400
204		---	---	ND	---	0.0400
205		---	---	ND	---	0.0400
206		---	---	ND	---	0.0400
207		---	---	ND	---	0.0400
208		---	---	ND	---	0.0400
209		---	---	ND	---	0.0400

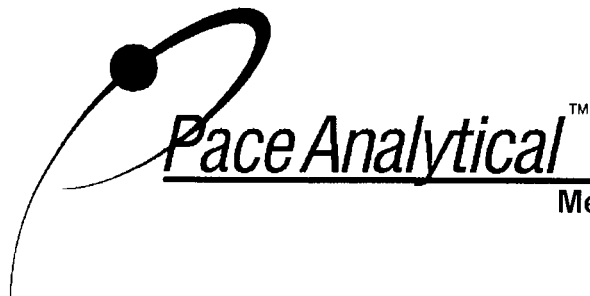
Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
ng/L = Nanograms per liter

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
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Report No.....10654073



**Method 1668C Polychlorobiphenyl
Blank Analysis Results**

Client Sample ID CBLKQM
Lab Sample ID BLANK-106282
Filename P230528A_06

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	ND

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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Report No.....10654073

**Method 1668C Polychlorobiphenyl
Blank Analysis Results**

Lab Sample ID	BLANK-106448	Matrix	Water
Filename	P230531B_07	Extracted	05/26/2023 11:40
Injected By	CVS	Analyzed	06/01/2023 03:40
Total Amount Extracted	1000 mL	Dilution	NA
ICAL ID	P230531B02		
CCal Filename(s)	P230531B_01		

PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.204	3.04	2.0	0.926	46
13C-4-MoCB	3	12.997	3.09	2.0	1.09	55
13C-2,2'-DiCB	4	13.302	1.55	2.0	1.09	55
13C-4,4'-DiCB	15	20.392	1.60	2.0	1.27	63
13C-2,2',6'-TrCB	19	17.132	1.03	2.0	1.13	57
13C-3,4,4'-TrCB	37	28.175	1.06	2.0	1.15	57
13C-2,2',6,6'-TeCB	54	20.734	0.79	2.0	0.873	44
13C-3,4,4',5'-TeCB	81	35.328	0.80	2.0	1.33	67
13C-3,3',4,4'-TeCB	77	35.900	0.79	2.0	1.27	64
13C-2,2',4,6,6'-PeCB	104	26.875	1.57	2.0	0.926	46
13C-2,3,3',4,4'-PeCB	105	39.534	1.62	2.0	1.45	73
13C-2,3,4,4',5'-PeCB	114	38.880	1.56	2.0	1.40	70
13C-2,3',4,4',5'-PeCB	118	38.326	1.56	2.0	1.40	70
13C-2,3',4,4',5'-PeCB	123	37.991	1.59	2.0	1.42	71
13C-3,3',4,4',5'-PeCB	126	42.703	1.59	2.0	1.24	62
13C-2,2',4,4',6,6'-HxCB	155	32.945	1.29	2.0	1.05	52
13C-HxCB (156/157)	156/157	45.793	1.27	4.0	2.76	69
13C-2,3',4,4',5,5'-HxCB	167	44.602	1.27	2.0	1.39	69
13C-3,3',4,4',5,5'-HxCB	169	49.079	1.29	2.0	1.20	60
13C-2,2',3,4',5,6,6'-HpCB	188	38.880	1.03	2.0	1.47	73
13C-2,3,3',4,4',5,5'-HpCB	189	51.647	1.08	2.0	1.68	84
13C-2,2',3,3',5,5',6,6'-OcCB	202	44.368	0.90	2.0	1.52	76
13C-2,3,3',4,4',5,5',6'-OcCB	205	54.233	0.89	2.0	1.50	75
13C-2,2',3,3',4,4',5,5',6'-NoCB	206	56.000	0.79	2.0	1.38	69
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.173	0.79	2.0	1.52	76
13C-DeCB	209	57.638	0.71	2.0	1.29	64
Cleanup Standards						
13C-2,4,4'-TrCB	28	23.813	1.04	2.0	1.28	64
13C-2,3,3',5,5'-PeCB	111	35.946	1.55	2.0	1.17	58
13C-2,2',3,3',5,5',6'-HpCB	178	41.982	1.06	2.0	1.11	56
Recovery Standards						
13C-2,5-DiCB	9	15.772	1.62	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.823	0.79	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.146	1.59	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.529	1.25	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	53.759	0.90	2.0	NA	NA

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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Report No.....10654073



Method 1668C Polychlorobiphenyl Blank Analysis Results

Lab Sample ID BLANK-106448
Filename P230531B_07

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.0400
2		---	---	ND	---	0.0400
3		---	---	ND	---	0.0400
4		---	---	ND	---	0.0400
5		---	---	ND	---	0.0400
6		---	---	ND	---	0.0400
7		---	---	ND	---	0.0400
8		---	---	ND	---	0.0400
9		---	---	ND	---	0.0400
10		---	---	ND	---	0.0400
11		---	---	ND	---	0.392
12	12/13	---	---	ND	---	0.0800
13	12/13	---	---	ND	---	0.0800
14		---	---	ND	---	0.0400
15		---	---	ND	---	0.0528
16		---	---	ND	---	0.0400
17		---	---	ND	---	0.0400
18	18/30	---	---	ND	---	0.0800
19		---	---	ND	---	0.0400
20	20/28	---	---	ND	---	0.206
21	21/33	---	---	ND	---	0.216
22		---	---	ND	---	0.152
23		---	---	ND	---	0.0400
24		---	---	ND	---	0.0400
25		---	---	ND	---	0.0400
26	26/29	---	---	ND	---	0.0800
27		---	---	ND	---	0.0400
28	20/28	---	---	ND	---	0.206
29	26/29	---	---	ND	---	0.0800
30	18/30	---	---	ND	---	0.0800
31		---	---	ND	---	0.208
32		---	---	ND	---	0.0400
33	21/33	---	---	ND	---	0.216
34		---	---	ND	---	0.0400
35		---	---	ND	---	0.0400
36		---	---	ND	---	0.0400
37		---	---	ND	---	0.0848
38		---	---	ND	---	0.0400
39		---	---	ND	---	0.0400
40	40/41/71	---	---	ND	---	0.120
41	40/41/71	---	---	ND	---	0.120
42		---	---	ND	---	0.0400
43	43/73	---	---	ND	---	0.0800
44	44/47/65	---	---	ND	---	0.120
45	45/51	---	---	ND	---	0.0800

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
ng/L = Nanograms per liter

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
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REPORT OF LABORATORY ANALYSIS

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Report No.....10654073



Method 1668C Polychlorobiphenyl Blank Analysis Results

Lab Sample ID BLANK-106448
Filename P230531B_07

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
46		---	---	ND	---	0.0400
47	44/47/65	---	---	ND	---	0.120
48		---	---	ND	---	0.0400
49	49/69	---	---	ND	---	0.0800
50	50/53	---	---	ND	---	0.0800
51	45/51	---	---	ND	---	0.0800
52		---	---	ND	---	0.206
53	50/53	---	---	ND	---	0.0800
54		---	---	ND	---	0.0400
55		---	---	ND	---	0.0400
56		---	---	ND	---	0.0400
57		---	---	ND	---	0.0400
58		---	---	ND	---	0.0400
59	59/62/75	---	---	ND	---	0.120
60		---	---	ND	---	0.0400
61	61/70/74/76	---	---	ND	---	0.160
62	59/62/75	---	---	ND	---	0.120
63		---	---	ND	---	0.0400
64		---	---	ND	---	0.0400
65	44/47/65	---	---	ND	---	0.120
66		---	---	ND	---	0.0944
67		---	---	ND	---	0.0400
68		---	---	ND	---	0.0400
69	49/69	---	---	ND	---	0.0800
70	61/70/74/76	---	---	ND	---	0.160
71	40/41/71	---	---	ND	---	0.120
72		---	---	ND	---	0.0400
73	43/73	---	---	ND	---	0.0800
74	61/70/74/76	---	---	ND	---	0.160
75	59/62/75	---	---	ND	---	0.120
76	61/70/74/76	---	---	ND	---	0.160
77		---	---	ND	---	0.0400
78		---	---	ND	---	0.0400
79		---	---	ND	---	0.0400
80		---	---	ND	---	0.0400
81		---	---	ND	---	0.0400
82		---	---	ND	---	0.0400
83		---	---	ND	---	0.0400
84		---	---	ND	---	0.0400
85	85/116/117	---	---	ND	---	0.120
86	86/87/97/108/119/125	---	---	ND	---	0.240
87	86/87/97/108/119/125	---	---	ND	---	0.240
88	88/91	---	---	ND	---	0.0800
89		---	---	ND	---	0.0400
90	90/101/113	---	---	ND	---	0.120

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
ng/L = Nanograms per liter

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
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REPORT OF LABORATORY ANALYSIS

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Report No.....10654073



Method 1668C Polychlorobiphenyl Blank Analysis Results

Lab Sample ID BLANK-106448
Filename P230531B_07

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
91	88/91	---	---	ND	---	0.0800
92		---	---	ND	---	0.0400
93	93/98/100/102	---	---	ND	---	0.160
94		---	---	ND	---	0.0400
95		---	---	ND	---	0.112
96		---	---	ND	---	0.0400
97	86/87/97/108/119/125	---	---	ND	---	0.240
98	93/98/100/102	---	---	ND	---	0.160
99		---	---	ND	---	0.0400
100	93/98/100/102	---	---	ND	---	0.160
101	90/101/113	---	---	ND	---	0.120
102	93/98/100/102	---	---	ND	---	0.160
103		---	---	ND	---	0.0400
104		---	---	ND	---	0.0400
105		---	---	ND	---	0.0400
106		---	---	ND	---	0.0400
107	107/124	---	---	ND	---	0.0800
108	86/87/97/108/119/125	---	---	ND	---	0.240
109		---	---	ND	---	0.0400
110	110/115	---	---	ND	---	0.0800
111		---	---	ND	---	0.0400
112		---	---	ND	---	0.0400
113	90/101/113	---	---	ND	---	0.120
114		---	---	ND	---	0.0400
115	110/115	---	---	ND	---	0.0800
116	85/116/117	---	---	ND	---	0.120
117	85/116/117	---	---	ND	---	0.120
118		---	---	ND	---	0.0624
119	86/87/97/108/119/125	---	---	ND	---	0.240
120		---	---	ND	---	0.0400
121		---	---	ND	---	0.0400
122		---	---	ND	---	0.0400
123		---	---	ND	---	0.0400
124	107/124	---	---	ND	---	0.0800
125	86/87/97/108/119/125	---	---	ND	---	0.240
126		---	---	ND	---	0.0400
127		---	---	ND	---	0.0400
128	128/166	---	---	ND	---	0.0800
129	129/138/163	---	---	ND	---	0.120
130		---	---	ND	---	0.0400
131		---	---	ND	---	0.0400
132		---	---	ND	---	0.0400
133		---	---	ND	---	0.0400
134	134/143	---	---	ND	---	0.0800
135	135/151	---	---	ND	---	0.0800

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
ng/L = Nanograms per liter

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Report No.....10654073

**Method 1668C Polychlorobiphenyl
Blank Analysis Results**

Lab Sample ID BLANK-106448
Filename P230531B_07

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
136		---	---	ND	---	0.0400
137		---	---	ND	---	0.0400
138	129/138/163	---	---	ND	---	0.120
139	139/140	---	---	ND	---	0.0800
140	139/140	---	---	ND	---	0.0800
141		---	---	ND	---	0.0400
142		---	---	ND	---	0.0400
143	134/143	---	---	ND	---	0.0800
144		---	---	ND	---	0.0400
145		---	---	ND	---	0.0400
146		---	---	ND	---	0.0400
147	147/149	---	---	ND	---	0.0800
148		---	---	ND	---	0.0400
149	147/149	---	---	ND	---	0.0800
150		---	---	ND	---	0.0400
151	135/151	---	---	ND	---	0.0800
152		---	---	ND	---	0.0400
153	153/168	---	---	ND	---	0.0800
154		---	---	ND	---	0.0400
155		---	---	ND	---	0.0400
156	156/157	---	---	ND	---	0.0800
157	156/157	---	---	ND	---	0.0800
158		---	---	ND	---	0.0400
159		---	---	ND	---	0.0400
160		---	---	ND	---	0.0400
161		---	---	ND	---	0.0400
162		---	---	ND	---	0.0400
163	129/138/163	---	---	ND	---	0.120
164		---	---	ND	---	0.0400
165		---	---	ND	---	0.0400
166	128/166	---	---	ND	---	0.0800
167		---	---	ND	---	0.0400
168	153/168	---	---	ND	---	0.0800
169		---	---	ND	---	0.0400
170		---	---	ND	---	0.0400
171	171/173	---	---	ND	---	0.0800
172		---	---	ND	---	0.0400
173	171/173	---	---	ND	---	0.0800
174		---	---	ND	---	0.0400
175		---	---	ND	---	0.0400
176		---	---	ND	---	0.0400
177		---	---	ND	---	0.0400
178		---	---	ND	---	0.0400
179		---	---	ND	---	0.0400
180	180/193	---	---	ND	---	0.0800

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
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Report No.....10654073



Method 1668C Polychlorobiphenyl
Blank Analysis Results

Lab Sample ID BLANK-106448
Filename P230531B_07

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
181		---	---	ND	---	0.0400
182		---	---	ND	---	0.0400
183	183/185	---	---	ND	---	0.0800
184		---	---	ND	---	0.0400
185	183/185	---	---	ND	---	0.0800
186		---	---	ND	---	0.0400
187		---	---	ND	---	0.0400
188		---	---	ND	---	0.0400
189		---	---	ND	---	0.0400
190		---	---	ND	---	0.0400
191		---	---	ND	---	0.0400
192		---	---	ND	---	0.0400
193	180/193	---	---	ND	---	0.0800
194		---	---	ND	---	0.0400
195		---	---	ND	---	0.0400
196		---	---	ND	---	0.0400
197	197/200	---	---	ND	---	0.0800
198	198/199	---	---	ND	---	0.0800
199	198/199	---	---	ND	---	0.0800
200	197/200	---	---	ND	---	0.0800
201		---	---	ND	---	0.0400
202		---	---	ND	---	0.0400
203		---	---	ND	---	0.0400
204		---	---	ND	---	0.0400
205		---	---	ND	---	0.0400
206		---	---	ND	---	0.0400
207		---	---	ND	---	0.0400
208		---	---	ND	---	0.0400
209		---	---	ND	---	0.0400

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
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Report No.....10654073



**Method 1668C Polychlorobiphenyl
Blank Analysis Results**

Client Sample ID CBLKSL
Lab Sample ID BLANK-106448
Filename P230531B_07

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	ND

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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Report No.....10654073



Method 1668C Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-DS2-202305		
Lab Sample ID	40262368001		
Filename	P230529A_11		
Injected By	BAL		
Total Amount Extracted	960 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	05/16/2023 11:15
ICAL ID	P230529A02	Received	05/20/2023 18:45
CCal Filename(s)	P230529A_01	Extracted	05/23/2023 12:15
Method Blank ID	BLANK-106282	Analyzed	05/29/2023 12:56

PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.171	2.95	2.0	1.42	71
13C-4-MoCB	3	12.986	3.09	2.0	1.69	84
13C-2,2'-DiCB	4	13.292	1.53	2.0	2.22	111
13C-4,4'-DiCB	15	20.415	1.58	2.0	1.85	92
13C-2,2',6-TrCB	19	17.143	1.04	2.0	2.26	113
13C-3,4,4'-TrCB	37	28.223	1.04	2.0	1.37	69
13C-2,2',6,6'-TeCB	54	20.767	0.79	2.0	1.49	74
13C-3,4,4',5-TeCB	81	35.377	0.79	2.0	1.49	75
13C-3,3',4,4'-TeCB	77	35.950	0.81	2.0	1.46	73
13C-2,2',4,6,6'-PeCB	104	26.909	1.57	2.0	1.77	89
13C-2,3,3',4,4'-PeCB	105	39.573	1.56	2.0	1.23	62
13C-2,3,4,4',5-PeCB	114	38.919	1.58	2.0	1.25	62
13C-2,3',4,4',5-PeCB	118	38.365	1.58	2.0	1.27	63
13C-2,3',4,4',5'-PeCB	123	38.030	1.53	2.0	1.23	62
13C-3,3',4,4',5-PeCB	126	42.742	1.54	2.0	1.08	54
13C-2,2',4,4',6,6'-HxCB	155	32.995	1.32	2.0	2.30	115
13C-HxCB (156/157)	156/157	45.816	1.26	4.0	2.42	61
13C-2,3',4,4',5,5'-HxCB	167	44.642	1.23	2.0	1.27	63
13C-3,3',4,4',5,5'-HxCB	169	49.119	1.23	2.0	1.41	71
13C-2,2',3,4',5,6,6'-HpCB	188	38.919	1.03	2.0	2.35	118
13C-2,3,3',4,4',5,5'-HpCB	189	51.676	1.05	2.0	1.52	76
13C-2,2',3,3',5,5',6,6'-OoCB	202	44.424	0.88	2.0	1.78	89
13C-2,3,3',4,4',5,5',6-OoCB	205	54.284	0.90	2.0	1.91	96
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.051	0.80	2.0	2.10	105
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.202	0.79	2.0	2.22	111
13C-DeCB	209	57.689	0.71	2.0	2.17	108
Cleanup Standards						
13C-2,4,4'-TrCB	28	23.845	1.03	2.0	1.28	64
13C-2,3,3',5,5'-PeCB	111	35.996	1.55	2.0	1.58	79
13C-2,2',3,3',5,5',6-HpCB	178	42.038	1.03	2.0	1.79	89
Recovery Standards						
13C-2,5-DiCB	9	15.773	1.55	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.856	0.79	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.196	1.54	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.568	1.26	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OoCB	194	53.810	0.90	2.0	NA	NA

Conc = Concentration
 EML = Method Specified Reporting Limit (1668C)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise
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 R = Recovery outside of Method 1668C control limits
 Nn = Value obtained from additional analyses

ND = Not Detected
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REPORT OF LABORATORY ANALYSIS

Report No.....10654073

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-DS2-202305
Lab Sample ID 40262368001
Filename P230529A_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.0417
2		---	---	ND	---	0.0417
3		---	---	ND	---	0.0417
4		---	---	ND	---	0.0417
5		---	---	ND	---	0.0417
6		---	---	ND	---	0.0417
7		---	---	ND	---	0.0417
8		---	---	ND	---	0.0417
9		---	---	ND	---	0.0417
10		---	---	ND	---	0.0417
11		---	---	ND	---	0.408
12	12/13	---	---	ND	---	0.0833
13	12/13	---	---	ND	---	0.0833
14		---	---	ND	---	0.0417
15		---	---	ND	---	0.0550
16		---	---	ND	---	0.0417
17		---	---	ND	---	0.0417
18	18/30	---	---	ND	---	0.0833
19		---	---	ND	---	0.0417
20	20/28	---	---	ND	---	0.215
21	21/33	---	---	ND	---	0.225
22		---	---	ND	---	0.158
23		---	---	ND	---	0.0417
24		---	---	ND	---	0.0417
25		---	---	ND	---	0.0417
26	26/29	---	---	ND	---	0.0833
27		---	---	ND	---	0.0417
28	20/28	---	---	ND	---	0.215
29	26/29	---	---	ND	---	0.0833
30	18/30	---	---	ND	---	0.0833
31		---	---	ND	---	0.217
32		---	---	ND	---	0.0417
33	21/33	---	---	ND	---	0.225
34		---	---	ND	---	0.0417
35		---	---	ND	---	0.0417
36		---	---	ND	---	0.0417
37		---	---	ND	---	0.0883
38		---	---	ND	---	0.0417
39		---	---	ND	---	0.0417
40	40/41/71	---	---	ND	---	0.125
41	40/41/71	---	---	ND	---	0.125
42		---	---	ND	---	0.0417
43	43/73	---	---	ND	---	0.0833
44	44/47/65	---	---	ND	---	0.125
45	45/51	---	---	ND	---	0.0833
46		---	---	ND	---	0.0417
47	44/47/65	---	---	ND	---	0.125
48		---	---	ND	---	0.0417

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
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REPORT OF LABORATORY ANALYSIS

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Report No.....10654073

**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-DS2-202305
Lab Sample ID 40262368001
Filename P230529A_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	---	---	ND	---	0.0833
50	50/53	---	---	ND	---	0.0833
51	45/51	---	---	ND	---	0.0833
52		---	---	ND	---	0.215
53	50/53	---	---	ND	---	0.0833
54		---	---	ND	---	0.0417
55		---	---	ND	---	0.0417
56		---	---	ND	---	0.0417
57		---	---	ND	---	0.0417
58		---	---	ND	---	0.0417
59	59/62/75	---	---	ND	---	0.125
60		---	---	ND	---	0.0417
61	61/70/74/76	---	---	ND	---	0.167
62	59/62/75	---	---	ND	---	0.125
63		---	---	ND	---	0.0417
64		---	---	ND	---	0.0417
65	44/47/65	---	---	ND	---	0.125
66		---	---	ND	---	0.0983
67		---	---	ND	---	0.0417
68		---	---	ND	---	0.0417
69	49/69	---	---	ND	---	0.0833
70	61/70/74/76	---	---	ND	---	0.167
71	40/41/71	---	---	ND	---	0.125
72		---	---	ND	---	0.0417
73	43/73	---	---	ND	---	0.0833
74	61/70/74/76	---	---	ND	---	0.167
75	59/62/75	---	---	ND	---	0.125
76	61/70/74/76	---	---	ND	---	0.167
77		---	---	ND	---	0.0417
78		---	---	ND	---	0.0417
79		---	---	ND	---	0.0417
80		---	---	ND	---	0.0417
81		---	---	ND	---	0.0417
82		---	---	ND	---	0.0417
83		---	---	ND	---	0.0417
84		---	---	ND	---	0.0417
85	85/116/117	---	---	ND	---	0.125
86	86/87/97/108/119/125	---	---	ND	---	0.250
87	86/87/97/108/119/125	---	---	ND	---	0.250
88	88/91	---	---	ND	---	0.0833
89		---	---	ND	---	0.0417
90	90/101/113	---	---	ND	---	0.125
91	88/91	---	---	ND	---	0.0833
92		---	---	ND	---	0.0417
93	93/98/100/102	---	---	ND	---	0.167
94		---	---	ND	---	0.0417
95		---	---	ND	---	0.117
96		---	---	ND	---	0.0417

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Method 1668C Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-DS2-202305
Lab Sample ID 40262368001
Filename P230529A_11

Table with 7 columns: IUPAC, Co-elutions, RT, Ratio, Concentration ng/L, EMPC ng/L, EML ng/L. Rows 97-144.

Conc = Concentration
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Method 1668C Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-DS2-202305
Lab Sample ID 40262368001
Filename P230529A_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
145		---	---	ND	---	0.0417
146		---	---	ND	---	0.0417
147	147/149	---	---	ND	---	0.0833
148		---	---	ND	---	0.0417
149	147/149	---	---	ND	---	0.0833
150		---	---	ND	---	0.0417
151	135/151	---	---	ND	---	0.0833
152		---	---	ND	---	0.0417
153	153/168	---	---	ND	---	0.0833
154		---	---	ND	---	0.0417
155		---	---	ND	---	0.0417
156	156/157	---	---	ND	---	0.0833
157	156/157	---	---	ND	---	0.0833
158		---	---	ND	---	0.0417
159		---	---	ND	---	0.0417
160		---	---	ND	---	0.0417
161		---	---	ND	---	0.0417
162		---	---	ND	---	0.0417
163	129/138/163	---	---	ND	---	0.125
164		---	---	ND	---	0.0417
165		---	---	ND	---	0.0417
166	128/166	---	---	ND	---	0.0833
167		---	---	ND	---	0.0417
168	153/168	---	---	ND	---	0.0833
169		---	---	ND	---	0.0417
170		---	---	ND	---	0.0417
171	171/173	---	---	ND	---	0.0833
172		---	---	ND	---	0.0417
173	171/173	---	---	ND	---	0.0833
174		---	---	ND	---	0.0417
175		---	---	ND	---	0.0417
176		---	---	ND	---	0.0417
177		---	---	ND	---	0.0417
178		---	---	ND	---	0.0417
179		---	---	ND	---	0.0417
180	180/193	---	---	ND	---	0.0833
181		---	---	ND	---	0.0417
182		---	---	ND	---	0.0417
183	183/185	---	---	ND	---	0.0833
184		---	---	ND	---	0.0417
185	183/185	---	---	ND	---	0.0833
186		---	---	ND	---	0.0417
187		---	---	ND	---	0.0417
188		---	---	ND	---	0.0417
189		---	---	ND	---	0.0417
190		---	---	ND	---	0.0417
191		---	---	ND	---	0.0417
192		---	---	ND	---	0.0417

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**Method 1668C Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-DS2-202305
 Lab Sample ID 40262368001
 Filename P230529A_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	---	---	ND	---	0.0833
194		---	---	ND	---	0.0417
195		---	---	ND	---	0.0417
196		---	---	ND	---	0.0417
197	197/200	---	---	ND	---	0.0833
198	198/199	---	---	ND	---	0.0833
199	198/199	---	---	ND	---	0.0833
200	197/200	---	---	ND	---	0.0833
201		---	---	ND	---	0.0417
202		---	---	ND	---	0.0417
203		---	---	ND	---	0.0417
204		---	---	ND	---	0.0417
205		---	---	ND	---	0.0417
206		---	---	ND	---	0.0417
207		---	---	ND	---	0.0417
208		---	---	ND	---	0.0417
209		---	---	ND	---	0.0417

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-DS2-202305
Lab Sample ID 40262368001
Filename P230529A_11

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	ND

ND = Not Detected

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Report No.....10654073

Method 1668C Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-DUP1-202305	Matrix	Water
Lab Sample ID	40262368002	Dilution	NA
Filename	P230529A_12	Collected	05/16/2023
Injected By	BAL	Received	05/20/2023 18:45
Total Amount Extracted	1040 mL	Extracted	05/23/2023 12:15
% Moisture	NA	Analyzed	05/29/2023 13:59
Dry Weight Extracted	NA		
ICAL ID	P230529A02		
CCal Filename(s)	P230529A_01		
Method Blank ID	BLANK-106282		

PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.159	2.95	2.0	1.44	72
13C-4-MoCB	3	12.975	3.04	2.0	1.62	81
13C-2,2'-DiCB	4	13.292	1.56	2.0	2.22	111
13C-4,4'-DiCB	15	20.404	1.55	2.0	1.78	89
13C-2,2',6-TrCB	19	17.121	1.02	2.0	2.31	115
13C-3,4,4'-TrCB	37	28.208	1.04	2.0	1.30	65
13C-2,2',6,6'-TeCB	54	20.751	0.77	2.0	1.50	75
13C-3,4,4',5-TeCB	81	35.362	0.76	2.0	1.38	69
13C-3,3',4,4'-TeCB	77	35.950	0.79	2.0	1.33	67
13C-2,2',4,6,6'-PeCB	104	26.908	1.73	2.0	1.72	86
13C-2,3,3',4,4'-PeCB	105	39.573	1.61	2.0	1.06	53
13C-2,3,4,4',5-PeCB	114	38.918	1.62	2.0	1.06	53
13C-2,3',4,4',5-PeCB	118	38.365	1.59	2.0	1.09	55
13C-2,3',4,4',5'-PeCB	123	38.013	1.53	2.0	1.09	54
13C-3,3',4,4',5-PeCB	126	42.742	1.55	2.0	0.936	47
13C-2,2',4,4',6,6'-HxCB	155	32.995	1.24	2.0	2.27	113
13C-HxCB (156/157)	156/157	45.816	1.27	4.0	2.19	55
13C-2,3',4,4',5,5'-HxCB	167	44.642	1.28	2.0	1.14	57
13C-3,3',4,4',5,5'-HxCB	169	49.103	1.27	2.0	1.30	65
13C-2,2',3,4',5,6,6'-HpCB	188	38.918	1.05	2.0	2.21	111
13C-2,3,3',4,4',5,5'-HpCB	189	51.676	1.05	2.0	1.46	73
13C-2,2',3,3',5,5',6,6'-OoCB	202	44.407	0.91	2.0	1.73	87
13C-2,3,3',4,4',5,5',6-OoCB	205	54.284	0.89	2.0	1.79	89
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.051	0.81	2.0	1.99	99
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.202	0.77	2.0	2.14	107
13C-DeCB	209	57.690	0.70	2.0	2.30	115
Cleanup Standards						
13C-2,4,4'-TrCB	28	23.845	1.04	2.0	1.29	65
13C-2,3,3',5,5'-PeCB	111	35.996	1.55	2.0	1.53	76
13C-2,2',3,3',5,5',6-HpCB	178	42.021	1.04	2.0	1.82	91
Recovery Standards						
13C-2,5-DiCB	9	15.762	1.56	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.856	0.76	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.196	1.55	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.568	1.24	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OoCB	194	53.810	0.90	2.0	NA	NA

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Method 1668C Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-DUP1-202305
Lab Sample ID 40262368002
Filename P230529A_12

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.0383
2		---	---	ND	---	0.0383
3		---	---	ND	---	0.0383
4		13.314	1.48	0.148	---	0.0383
5		---	---	ND	---	0.0383
6		16.270	1.51	0.0717	---	0.0383
7		---	---	ND	---	0.0383
8		---	---	ND	---	0.0383
9		---	---	ND	---	0.0383
10		---	---	ND	---	0.0383
11		---	---	ND	---	0.376
12	12/13	---	---	ND	---	0.0766
13	12/13	---	---	ND	---	0.0766
14		---	---	ND	---	0.0383
15		---	---	ND	---	0.0506
16		---	---	ND	---	0.0383
17		19.851	1.05	0.154	---	0.0383
18	18/30	19.365	1.05	0.0975	---	0.0766
19		17.143	0.90	0.0925	---	0.0383
20	20/28	---	---	ND	---	0.198
21	21/33	---	---	ND	---	0.207
22		---	---	ND	---	0.146
23		---	---	ND	---	0.0383
24		---	---	ND	---	0.0383
25		23.180	0.95	0.140	---	0.0383
26	26/29	22.917	1.10	0.260	---	0.0766
27		---	---	ND	---	0.0383
28	20/28	---	---	ND	---	0.198
29	26/29	22.917	1.10	(0.260)	---	0.0766
30	18/30	19.365	1.05	(0.0975)	---	0.0766
31		---	---	ND	---	0.199
32		20.983	1.01	0.0626	---	0.0383
33	21/33	---	---	ND	---	0.207
34		---	---	ND	---	0.0383
35		---	---	ND	---	0.0383
36		---	---	ND	---	0.0383
37		---	---	ND	---	0.0812
38		---	---	ND	---	0.0383
39		---	---	ND	---	0.0383
40	40/41/71	28.068	0.76	0.306	---	0.115
41	40/41/71	28.068	0.76	(0.306)	---	0.115
42		27.527	0.76	0.206	---	0.0383
43	43/73	---	---	ND	---	0.0766
44	44/47/65	27.032	0.75	0.917	---	0.115
45	45/51	24.061	0.77	0.152	---	0.0766
46		24.309	0.71	0.0796	---	0.0383
47	44/47/65	27.032	0.75	(0.917)	---	0.115
48		---	---	ND	---	0.0383

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-DUP1-202305
Lab Sample ID 40262368002
Filename P230529A_12

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	26.413	0.78	1.34	---	0.0766
50	50/53	23.211	0.79	0.288	---	0.0766
51	45/51	24.061	0.77	(0.152)	---	0.0766
52		25.872	0.76	1.88	---	0.198
53	50/53	23.211	0.79	(0.288)	---	0.0766
54		---	---	ND	---	0.0383
55		---	---	ND	---	0.0383
56		32.082	0.69	0.0568	---	0.0383
57		---	---	ND	---	0.0383
58		---	---	ND	---	0.0383
59	59/62/75	---	---	ND	---	0.115
60		---	---	ND	---	0.0383
61	61/70/74/76	31.030	0.76	0.411	---	0.153
62	59/62/75	---	---	ND	---	0.115
63		---	---	ND	---	0.0383
64		28.300	0.78	0.150	---	0.0383
65	44/47/65	27.032	0.75	(0.917)	---	0.115
66		31.386	0.77	0.330	---	0.0904
67		---	---	ND	---	0.0383
68		---	---	ND	---	0.0383
69	49/69	26.413	0.78	(1.34)	---	0.0766
70	61/70/74/76	31.030	0.76	(0.411)	---	0.153
71	40/41/71	28.068	0.76	(0.306)	---	0.115
72		29.204	0.71	0.0473	---	0.0383
73	43/73	---	---	ND	---	0.0766
74	61/70/74/76	31.030	0.76	(0.411)	---	0.153
75	59/62/75	---	---	ND	---	0.115
76	61/70/74/76	31.030	0.76	(0.411)	---	0.153
77		---	---	ND	---	0.0383
78		---	---	ND	---	0.0383
79		---	---	ND	---	0.0383
80		---	---	ND	---	0.0383
81		---	---	ND	---	0.0383
82		35.594	1.56	0.110	---	0.0383
83		33.706	1.56	0.144	---	0.0383
84		31.246	1.46	0.489	---	0.0383
85	85/116/117	35.114	1.65	0.319	---	0.115
86	86/87/97/108/119/125	34.356	1.59	1.03	---	0.230
87	86/87/97/108/119/125	34.356	1.59	(1.03)	---	0.230
88	88/91	31.030	1.56	0.382	---	0.0766
89		---	---	ND	---	0.0383
90	90/101/113	33.227	1.54	1.89	---	0.115
91	88/91	31.030	1.56	(0.382)	---	0.0766
92		32.608	1.54	0.679	---	0.0383
93	93/98/100/102	---	---	ND	---	0.153
94		---	---	ND	---	0.0383
95		30.101	1.57	1.61	---	0.107
96		---	---	ND	---	0.0383

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Method 1668C Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-DUP1-202305
Lab Sample ID 40262368002
Filename P230529A_12

Table with 7 columns: IUPAC, Co-elutions, RT, Ratio, Concentration ng/L, EMPC ng/L, EML ng/L. Rows 97-144.

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Method 1668C Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-DUP1-202305
Lab Sample ID 40262368002
Filename P230529A_12

Table with 7 columns: IUPAC, Co-elutions, RT, Ratio, Concentration ng/L, EMPC ng/L, EML ng/L. Rows 145-192.

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
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X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-DUP1-202305
Lab Sample ID 40262368002
Filename P230529A_12

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	47.258	1.06	(0.188)	---	0.0766
194		---	---	ND	---	0.0383
195		---	---	ND	---	0.0383
196		---	---	ND	---	0.0383
197	197/200	---	---	ND	---	0.0766
198	198/199	---	---	ND	---	0.0766
199	198/199	---	---	ND	---	0.0766
200	197/200	---	---	ND	---	0.0766
201		---	---	ND	---	0.0383
202		---	---	ND	---	0.0383
203		---	---	ND	---	0.0383
204		---	---	ND	---	0.0383
205		---	---	ND	---	0.0383
206		---	---	ND	---	0.0383
207		---	---	ND	---	0.0383
208		---	---	ND	---	0.0383
209		---	---	ND	---	0.0383

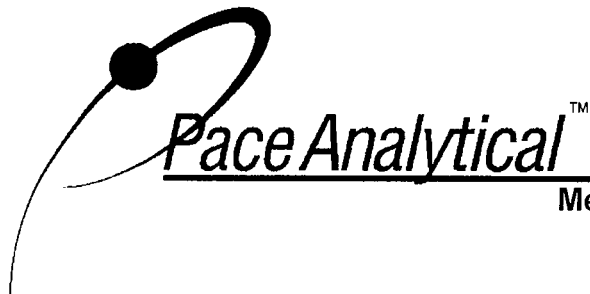
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-DUP1-202305
Lab Sample ID 40262368002
Filename P230529A_12

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	0.219
Total Trichloro Biphenyls	0.807
Total Tetrachloro Biphenyls	6.16
Total Pentachloro Biphenyls	11.8
Total Hexachloro Biphenyls	6.46
Total Heptachloro Biphenyls	0.805
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	26.2

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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Report No.....10654073



Method 1668C Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-EB-202305	Matrix	Water
Lab Sample ID	40262368003	Dilution	NA
Filename	P230529B_04	Collected	05/16/2023 11:30
Injected By	BAL	Received	05/20/2023 18:45
Total Amount Extracted	1040 mL	Extracted	05/23/2023 12:15
% Moisture	NA	Analyzed	05/29/2023 19:14
Dry Weight Extracted	NA		
ICAL ID	P230529B02		
CCal Filename(s)	P230529B_01		
Method Blank ID	BLANK-106282		

PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.148	2.98	2.0	1.47	74
13C-4-MoCB	3	12.975	3.09	2.0	1.78	89
13C-2,2'-DiCB	4	13.280	1.62	2.0	2.41	120
13C-4,4'-DiCB	15	20.415	1.57	2.0	1.87	94
13C-2,2',6-TrCB	19	17.132	1.00	2.0	2.38	119
13C-3,4,4'-TrCB	37	28.223	1.02	2.0	1.32	66
13C-2,2',6,6'-TeCB	54	20.766	0.79	2.0	1.57	78
13C-3,4,4',5-TeCB	81	35.377	0.76	2.0	1.40	70
13C-3,3',4,4'-TeCB	77	35.950	0.76	2.0	1.34	67
13C-2,2',4,6,6'-PeCB	104	26.908	1.55	2.0	1.92	96
13C-2,3,3',4,4'-PeCB	105	39.572	1.60	2.0	1.24	62
13C-2,3,4,4',5-PeCB	114	38.918	1.55	2.0	1.22	61
13C-2,3',4,4',5-PeCB	118	38.365	1.54	2.0	1.21	60
13C-2,3',4,4',5'-PeCB	123	38.030	1.57	2.0	1.22	61
13C-3,3',4,4',5-PeCB	126	42.742	1.54	2.0	1.10	55
13C-2,2',4,4',6,6'-HxCB	155	32.995	1.24	2.0	2.31	115
13C-HxCB (156/157)	156/157	45.833	1.25	4.0	2.39	60
13C-2,3',4,4',5,5'-HxCB	167	44.659	1.24	2.0	1.26	63
13C-3,3',4,4',5,5'-HxCB	169	49.119	1.30	2.0	1.35	67
13C-2,2',3,4',5,6,6'-HpCB	188	38.935	1.04	2.0	2.48	124
13C-2,3,3',4,4',5,5'-HpCB	189	51.676	1.02	2.0	1.53	77
13C-2,2',3,3',5,5',6,6'-OxCB	202	44.408	0.86	2.0	1.88	94
13C-2,3,3',4,4',5,5',6-OxCB	205	54.305	0.86	2.0	1.87	93
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.051	0.81	2.0	2.10	105
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.223	0.79	2.0	2.29	114
13C-DeCB	209	57.689	0.69	2.0	2.20	110
Cleanup Standards						
13C-2,4,4'-TrCB	28	23.845	1.03	2.0	1.22	61
13C-2,3,3',5,5'-PeCB	111	35.996	1.57	2.0	1.53	77
13C-2,2',3,3',5,5',6-HpCB	178	42.037	1.06	2.0	1.78	89
Recovery Standards						
13C-2,5-DiCB	9	15.762	1.54	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.856	0.74	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.211	1.55	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.585	1.23	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OxCB	194	53.810	0.87	2.0	NA	NA

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REPORT OF LABORATORY ANALYSIS

Report No.....10654073

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-EB-202305
Lab Sample ID 40262368003
Filename P230529B_04

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.0385
2		---	---	ND	---	0.0385
3		---	---	ND	---	0.0385
4		---	---	ND	---	0.0385
5		---	---	ND	---	0.0385
6		---	---	ND	---	0.0385
7		---	---	ND	---	0.0385
8		---	---	ND	---	0.0385
9		---	---	ND	---	0.0385
10		---	---	ND	---	0.0385
11		---	---	ND	---	0.377
12	12/13	---	---	ND	---	0.0770
13	12/13	---	---	ND	---	0.0770
14		---	---	ND	---	0.0385
15		---	---	ND	---	0.0508
16		---	---	ND	---	0.0385
17		---	---	ND	---	0.0385
18	18/30	---	---	ND	---	0.0770
19		---	---	ND	---	0.0385
20	20/28	---	---	ND	---	0.199
21	21/33	---	---	ND	---	0.208
22		---	---	ND	---	0.146
23		---	---	ND	---	0.0385
24		---	---	ND	---	0.0385
25		---	---	ND	---	0.0385
26	26/29	---	---	ND	---	0.0770
27		---	---	ND	---	0.0385
28	20/28	---	---	ND	---	0.199
29	26/29	---	---	ND	---	0.0770
30	18/30	---	---	ND	---	0.0770
31		---	---	ND	---	0.200
32		---	---	ND	---	0.0385
33	21/33	---	---	ND	---	0.208
34		---	---	ND	---	0.0385
35		---	---	ND	---	0.0385
36		---	---	ND	---	0.0385
37		---	---	ND	---	0.0816
38		---	---	ND	---	0.0385
39		---	---	ND	---	0.0385
40	40/41/71	---	---	ND	---	0.115
41	40/41/71	---	---	ND	---	0.115
42		---	---	ND	---	0.0385
43	43/73	---	---	ND	---	0.0770
44	44/47/65	---	---	ND	---	0.115
45	45/51	---	---	ND	---	0.0770
46		---	---	ND	---	0.0385
47	44/47/65	---	---	ND	---	0.115
48		---	---	ND	---	0.0385

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Method 1668C Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-EB-202305
Lab Sample ID 40262368003
Filename P230529B_04

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	---	---	ND	---	0.0770
50	50/53	---	---	ND	---	0.0770
51	45/51	---	---	ND	---	0.0770
52		---	---	ND	---	0.199
53	50/53	---	---	ND	---	0.0770
54		---	---	ND	---	0.0385
55		---	---	ND	---	0.0385
56		---	---	ND	---	0.0385
57		---	---	ND	---	0.0385
58		---	---	ND	---	0.0385
59	59/62/75	---	---	ND	---	0.115
60		---	---	ND	---	0.0385
61	61/70/74/76	---	---	ND	---	0.154
62	59/62/75	---	---	ND	---	0.115
63		---	---	ND	---	0.0385
64		---	---	ND	---	0.0385
65	44/47/65	---	---	ND	---	0.115
66		---	---	ND	---	0.0908
67		---	---	ND	---	0.0385
68		---	---	ND	---	0.0385
69	49/69	---	---	ND	---	0.0770
70	61/70/74/76	---	---	ND	---	0.154
71	40/41/71	---	---	ND	---	0.115
72		---	---	ND	---	0.0385
73	43/73	---	---	ND	---	0.0770
74	61/70/74/76	---	---	ND	---	0.154
75	59/62/75	---	---	ND	---	0.115
76	61/70/74/76	---	---	ND	---	0.154
77		---	---	ND	---	0.0385
78		---	---	ND	---	0.0385
79		---	---	ND	---	0.0385
80		---	---	ND	---	0.0385
81		---	---	ND	---	0.0385
82		---	---	ND	---	0.0385
83		---	---	ND	---	0.0385
84		---	---	ND	---	0.0385
85	85/116/117	---	---	ND	---	0.115
86	86/87/97/108/119/125	---	---	ND	---	0.231
87	86/87/97/108/119/125	---	---	ND	---	0.231
88	88/91	---	---	ND	---	0.0770
89		---	---	ND	---	0.0385
90	90/101/113	---	---	ND	---	0.115
91	88/91	---	---	ND	---	0.0770
92		---	---	ND	---	0.0385
93	93/98/100/102	---	---	ND	---	0.154
94		---	---	ND	---	0.0385
95		---	---	ND	---	0.108
96		---	---	ND	---	0.0385

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Method 1668C Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-EB-202305
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Filename P230529B_04

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	---	---	ND	---	0.231
98	93/98/100/102	---	---	ND	---	0.154
99		---	---	ND	---	0.0385
100	93/98/100/102	---	---	ND	---	0.154
101	90/101/113	---	---	ND	---	0.115
102	93/98/100/102	---	---	ND	---	0.154
103		---	---	ND	---	0.0385
104		---	---	ND	---	0.0385
105		---	---	ND	---	0.0385
106		---	---	ND	---	0.0385
107	107/124	---	---	ND	---	0.0770
108	86/87/97/108/119/125	---	---	ND	---	0.231
109		---	---	ND	---	0.0385
110	110/115	---	---	ND	---	0.0770
111		---	---	ND	---	0.0385
112		---	---	ND	---	0.0385
113	90/101/113	---	---	ND	---	0.115
114		---	---	ND	---	0.0385
115	110/115	---	---	ND	---	0.0770
116	85/116/117	---	---	ND	---	0.115
117	85/116/117	---	---	ND	---	0.115
118		---	---	ND	---	0.0600
119	86/87/97/108/119/125	---	---	ND	---	0.231
120		---	---	ND	---	0.0385
121		---	---	ND	---	0.0385
122		---	---	ND	---	0.0385
123		---	---	ND	---	0.0385
124	107/124	---	---	ND	---	0.0770
125	86/87/97/108/119/125	---	---	ND	---	0.231
126		---	---	ND	---	0.0385
127		---	---	ND	---	0.0385
128	128/166	---	---	ND	---	0.0770
129	129/138/163	---	---	ND	---	0.115
130		---	---	ND	---	0.0385
131		---	---	ND	---	0.0385
132		---	---	ND	---	0.0385
133		---	---	ND	---	0.0385
134	134/143	---	---	ND	---	0.0770
135	135/151	---	---	ND	---	0.0770
136		---	---	ND	---	0.0385
137		---	---	ND	---	0.0385
138	129/138/163	---	---	ND	---	0.115
139	139/140	---	---	ND	---	0.0770
140	139/140	---	---	ND	---	0.0770
141		---	---	ND	---	0.0385
142		---	---	ND	---	0.0385
143	134/143	---	---	ND	---	0.0770
144		---	---	ND	---	0.0385

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Method 1668C Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-EB-202305
Lab Sample ID 40262368003
Filename P230529B_04

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
145		---	---	ND	---	0.0385
146		---	---	ND	---	0.0385
147	147/149	---	---	ND	---	0.0770
148		---	---	ND	---	0.0385
149	147/149	---	---	ND	---	0.0770
150		---	---	ND	---	0.0385
151	135/151	---	---	ND	---	0.0770
152		---	---	ND	---	0.0385
153	153/168	---	---	ND	---	0.0770
154		---	---	ND	---	0.0385
155		---	---	ND	---	0.0385
156	156/157	---	---	ND	---	0.0770
157	156/157	---	---	ND	---	0.0770
158		---	---	ND	---	0.0385
159		---	---	ND	---	0.0385
160		---	---	ND	---	0.0385
161		---	---	ND	---	0.0385
162		---	---	ND	---	0.0385
163	129/138/163	---	---	ND	---	0.115
164		---	---	ND	---	0.0385
165		---	---	ND	---	0.0385
166	128/166	---	---	ND	---	0.0770
167		---	---	ND	---	0.0385
168	153/168	---	---	ND	---	0.0770
169		---	---	ND	---	0.0385
170		---	---	ND	---	0.0385
171	171/173	---	---	ND	---	0.0770
172		---	---	ND	---	0.0385
173	171/173	---	---	ND	---	0.0770
174		---	---	ND	---	0.0385
175		---	---	ND	---	0.0385
176		---	---	ND	---	0.0385
177		---	---	ND	---	0.0385
178		---	---	ND	---	0.0385
179		---	---	ND	---	0.0385
180	180/193	---	---	ND	---	0.0770
181		---	---	ND	---	0.0385
182		---	---	ND	---	0.0385
183	183/185	---	---	ND	---	0.0770
184		---	---	ND	---	0.0385
185	183/185	---	---	ND	---	0.0770
186		---	---	ND	---	0.0385
187		---	---	ND	---	0.0385
188		---	---	ND	---	0.0385
189		---	---	ND	---	0.0385
190		---	---	ND	---	0.0385
191		---	---	ND	---	0.0385
192		---	---	ND	---	0.0385

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-EB-202305
Lab Sample ID 40262368003
Filename P230529B_04

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	---	---	ND	---	0.0770
194		---	---	ND	---	0.0385
195		---	---	ND	---	0.0385
196		---	---	ND	---	0.0385
197	197/200	---	---	ND	---	0.0770
198	198/199	---	---	ND	---	0.0770
199	198/199	---	---	ND	---	0.0770
200	197/200	---	---	ND	---	0.0770
201		---	---	ND	---	0.0385
202		---	---	ND	---	0.0385
203		---	---	ND	---	0.0385
204		---	---	ND	---	0.0385
205		---	---	ND	---	0.0385
206		---	---	ND	---	0.0385
207		---	---	ND	---	0.0385
208		---	---	ND	---	0.0385
209		---	---	ND	---	0.0385

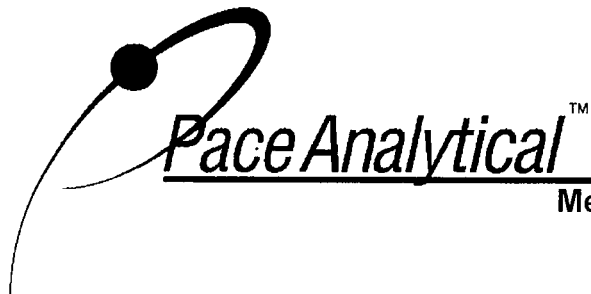
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I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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Report No.....10654073



**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-EB-202305
Lab Sample ID 40262368003
Filename P230529B_04

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	ND

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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Report No.....10654073



Method 1668C Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Table with 4 columns: Client's Sample ID, Lab Sample ID, Filename, Injected By, Total Amount Extracted, % Moisture, Dry Weight Extracted, ICAL ID, CCal Filename(s), Method Blank ID, Matrix, Dilution, Collected, Received, Extracted, Analyzed.

Main data table with 7 columns: PCB Isomer, IUPAC, RT, Ratio, ng's Added, ng's Found, % Recovery. Includes Labeled Analytes, Cleanup Standards, and Recovery Standards.

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

Report No.....10654073

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-FB-202305
Lab Sample ID 40262368004
Filename P230529B_05

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.0382
2		---	---	ND	---	0.0382
3		---	---	ND	---	0.0382
4		---	---	ND	---	0.0382
5		---	---	ND	---	0.0382
6		---	---	ND	---	0.0382
7		---	---	ND	---	0.0382
8		---	---	ND	---	0.0382
9		---	---	ND	---	0.0382
10		---	---	ND	---	0.0382
11		---	---	ND	---	0.375
12	12/13	---	---	ND	---	0.0765
13	12/13	---	---	ND	---	0.0765
14		---	---	ND	---	0.0382
15		---	---	ND	---	0.0505
16		---	---	ND	---	0.0382
17		---	---	ND	---	0.0382
18	18/30	---	---	ND	---	0.0765
19		---	---	ND	---	0.0382
20	20/28	---	---	ND	---	0.197
21	21/33	---	---	ND	---	0.206
22		---	---	ND	---	0.145
23		---	---	ND	---	0.0382
24		---	---	ND	---	0.0382
25		---	---	ND	---	0.0382
26	26/29	---	---	ND	---	0.0765
27		---	---	ND	---	0.0382
28	20/28	---	---	ND	---	0.197
29	26/29	---	---	ND	---	0.0765
30	18/30	---	---	ND	---	0.0765
31		---	---	ND	---	0.199
32		---	---	ND	---	0.0382
33	21/33	---	---	ND	---	0.206
34		---	---	ND	---	0.0382
35		---	---	ND	---	0.0382
36		---	---	ND	---	0.0382
37		---	---	ND	---	0.0811
38		---	---	ND	---	0.0382
39		---	---	ND	---	0.0382
40	40/41/71	---	---	ND	---	0.115
41	40/41/71	---	---	ND	---	0.115
42		---	---	ND	---	0.0382
43	43/73	---	---	ND	---	0.0765
44	44/47/65	---	---	ND	---	0.115
45	45/51	---	---	ND	---	0.0765
46		---	---	ND	---	0.0382
47	44/47/65	---	---	ND	---	0.115
48		---	---	ND	---	0.0382

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
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REPORT OF LABORATORY ANALYSIS

Report No.....10654073

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Method 1668C Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-FB-202305
Lab Sample ID 40262368004
Filename P230529B_05

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	---	---	ND	---	0.0765
50	50/53	---	---	ND	---	0.0765
51	45/51	---	---	ND	---	0.0765
52		---	---	ND	---	0.197
53	50/53	---	---	ND	---	0.0765
54		---	---	ND	---	0.0382
55		---	---	ND	---	0.0382
56		---	---	ND	---	0.0382
57		---	---	ND	---	0.0382
58		---	---	ND	---	0.0382
59	59/62/75	---	---	ND	---	0.115
60		---	---	ND	---	0.0382
61	61/70/74/76	---	---	ND	---	0.153
62	59/62/75	---	---	ND	---	0.115
63		---	---	ND	---	0.0382
64		---	---	ND	---	0.0382
65	44/47/65	---	---	ND	---	0.115
66		---	---	ND	---	0.0902
67		---	---	ND	---	0.0382
68		---	---	ND	---	0.0382
69	49/69	---	---	ND	---	0.0765
70	61/70/74/76	---	---	ND	---	0.153
71	40/41/71	---	---	ND	---	0.115
72		---	---	ND	---	0.0382
73	43/73	---	---	ND	---	0.0765
74	61/70/74/76	---	---	ND	---	0.153
75	59/62/75	---	---	ND	---	0.115
76	61/70/74/76	---	---	ND	---	0.153
77		---	---	ND	---	0.0382
78		---	---	ND	---	0.0382
79		---	---	ND	---	0.0382
80		---	---	ND	---	0.0382
81		---	---	ND	---	0.0382
82		---	---	ND	---	0.0382
83		---	---	ND	---	0.0382
84		---	---	ND	---	0.0382
85	85/116/117	---	---	ND	---	0.115
86	86/87/97/108/119/125	---	---	ND	---	0.229
87	86/87/97/108/119/125	---	---	ND	---	0.229
88	88/91	---	---	ND	---	0.0765
89		---	---	ND	---	0.0382
90	90/101/113	---	---	ND	---	0.115
91	88/91	---	---	ND	---	0.0765
92		---	---	ND	---	0.0382
93	93/98/100/102	---	---	ND	---	0.153
94		---	---	ND	---	0.0382
95		---	---	ND	---	0.107
96		---	---	ND	---	0.0382

Conc = Concentration
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REPORT OF LABORATORY ANALYSIS

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-FB-202305
Lab Sample ID 40262368004
Filename P230529B_05

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	---	---	ND	---	0.229
98	93/98/100/102	---	---	ND	---	0.153
99		---	---	ND	---	0.0382
100	93/98/100/102	---	---	ND	---	0.153
101	90/101/113	---	---	ND	---	0.115
102	93/98/100/102	---	---	ND	---	0.153
103		---	---	ND	---	0.0382
104		---	---	ND	---	0.0382
105		---	---	ND	---	0.0382
106		---	---	ND	---	0.0382
107	107/124	---	---	ND	---	0.0765
108	86/87/97/108/119/125	---	---	ND	---	0.229
109		---	---	ND	---	0.0382
110	110/115	---	---	ND	---	0.0765
111		---	---	ND	---	0.0382
112		---	---	ND	---	0.0382
113	90/101/113	---	---	ND	---	0.115
114		---	---	ND	---	0.0382
115	110/115	---	---	ND	---	0.0765
116	85/116/117	---	---	ND	---	0.115
117	85/116/117	---	---	ND	---	0.115
118		---	---	ND	---	0.0596
119	86/87/97/108/119/125	---	---	ND	---	0.229
120		---	---	ND	---	0.0382
121		---	---	ND	---	0.0382
122		---	---	ND	---	0.0382
123		---	---	ND	---	0.0382
124	107/124	---	---	ND	---	0.0765
125	86/87/97/108/119/125	---	---	ND	---	0.229
126		---	---	ND	---	0.0382
127		---	---	ND	---	0.0382
128	128/166	---	---	ND	---	0.0765
129	129/138/163	---	---	ND	---	0.115
130		---	---	ND	---	0.0382
131		---	---	ND	---	0.0382
132		---	---	ND	---	0.0382
133		---	---	ND	---	0.0382
134	134/143	---	---	ND	---	0.0765
135	135/151	---	---	ND	---	0.0765
136		---	---	ND	---	0.0382
137		---	---	ND	---	0.0382
138	129/138/163	---	---	ND	---	0.115
139	139/140	---	---	ND	---	0.0765
140	139/140	---	---	ND	---	0.0765
141		---	---	ND	---	0.0382
142		---	---	ND	---	0.0382
143	134/143	---	---	ND	---	0.0765
144		---	---	ND	---	0.0382

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REPORT OF LABORATORY ANALYSIS

Report No.....10654073

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-FB-202305
Lab Sample ID 40262368004
Filename P230529B_05

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
145		---	---	ND	---	0.0382
146		---	---	ND	---	0.0382
147	147/149	---	---	ND	---	0.0765
148		---	---	ND	---	0.0382
149	147/149	---	---	ND	---	0.0765
150		---	---	ND	---	0.0382
151	135/151	---	---	ND	---	0.0765
152		---	---	ND	---	0.0382
153	153/168	---	---	ND	---	0.0765
154		---	---	ND	---	0.0382
155		---	---	ND	---	0.0382
156	156/157	---	---	ND	---	0.0765
157	156/157	---	---	ND	---	0.0765
158		---	---	ND	---	0.0382
159		---	---	ND	---	0.0382
160		---	---	ND	---	0.0382
161		---	---	ND	---	0.0382
162		---	---	ND	---	0.0382
163	129/138/163	---	---	ND	---	0.115
164		---	---	ND	---	0.0382
165		---	---	ND	---	0.0382
166	128/166	---	---	ND	---	0.0765
167		---	---	ND	---	0.0382
168	153/168	---	---	ND	---	0.0765
169		---	---	ND	---	0.0382
170		---	---	ND	---	0.0382
171	171/173	---	---	ND	---	0.0765
172		---	---	ND	---	0.0382
173	171/173	---	---	ND	---	0.0765
174		---	---	ND	---	0.0382
175		---	---	ND	---	0.0382
176		---	---	ND	---	0.0382
177		---	---	ND	---	0.0382
178		---	---	ND	---	0.0382
179		---	---	ND	---	0.0382
180	180/193	---	---	ND	---	0.0765
181		---	---	ND	---	0.0382
182		---	---	ND	---	0.0382
183	183/185	---	---	ND	---	0.0765
184		---	---	ND	---	0.0382
185	183/185	---	---	ND	---	0.0765
186		---	---	ND	---	0.0382
187		---	---	ND	---	0.0382
188		---	---	ND	---	0.0382
189		---	---	ND	---	0.0382
190		---	---	ND	---	0.0382
191		---	---	ND	---	0.0382
192		---	---	ND	---	0.0382

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
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* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

Report No.....10654073

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Revision 3



Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-FB-202305
Lab Sample ID 40262368004
Filename P230529B_05

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	---	---	ND	---	0.0765
194		---	---	ND	---	0.0382
195		---	---	ND	---	0.0382
196		---	---	ND	---	0.0382
197	197/200	---	---	ND	---	0.0765
198	198/199	---	---	ND	---	0.0765
199	198/199	---	---	ND	---	0.0765
200	197/200	---	---	ND	---	0.0765
201		---	---	ND	---	0.0382
202		---	---	ND	---	0.0382
203		---	---	ND	---	0.0382
204		---	---	ND	---	0.0382
205		---	---	ND	---	0.0382
206		---	---	ND	---	0.0382
207		---	---	ND	---	0.0382
208		---	---	ND	---	0.0382
209		---	---	ND	---	0.0382

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
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REPORT OF LABORATORY ANALYSIS

Report No.....10654073

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-FB-202305
Lab Sample ID 40262368004
Filename P230529B_05

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	ND

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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Report No.....10654073



Method 1668C Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID NR-SW-DS1-202305
Lab Sample ID 40262368005
Filename P230529B_06
Injected By BAL
Total Amount Extracted 1050 mL
% Moisture NA
Dry Weight Extracted NA
ICAL ID P230529B02
CCal Filename(s) P230529B_01
Method Blank ID BLANK-106282
Matrix Water
Dilution NA
Collected 05/16/2023 12:45
Received 05/20/2023 18:45
Extracted 05/23/2023 12:15
Analyzed 05/29/2023 21:20

Table with 7 columns: PCB Isomer, IUPAC, RT, Ratio, ng's Added, ng's Found, % Recovery. Rows include Labeled Analytes, Cleanup Standards, and Recovery Standards.

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
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RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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Method 1668C Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-DS1-202305
Lab Sample ID 40262368005
Filename P230529B_06

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.0383
2		---	---	ND	---	0.0383
3		---	---	ND	---	0.0383
4		13.337	1.34	0.154	---	0.0383
5		---	---	ND	---	0.0383
6		16.303	1.43	0.0811	---	0.0383
7		---	---	ND	---	0.0383
8		---	---	ND	---	0.0383
9		---	---	ND	---	0.0383
10		---	---	ND	---	0.0383
11		---	---	ND	---	0.375
12	12/13	---	---	ND	---	0.0765
13	12/13	---	---	ND	---	0.0765
14		---	---	ND	---	0.0383
15		---	---	ND	---	0.0505
16		---	---	ND	---	0.0383
17		19.873	1.04	0.130	---	0.0383
18	18/30	19.387	0.93	0.0817	---	0.0765
19		17.176	1.08	0.100	---	0.0383
20	20/28	---	---	ND	---	0.197
21	21/33	---	---	ND	---	0.207
22		---	---	ND	---	0.145
23		---	---	ND	---	0.0383
24		---	---	ND	---	0.0383
25		23.195	1.11	0.161	---	0.0383
26	26/29	22.932	1.01	0.284	---	0.0765
27		---	---	ND	---	0.0383
28	20/28	---	---	ND	---	0.197
29	26/29	22.932	1.01	(0.284)	---	0.0765
30	18/30	19.387	0.93	(0.0817)	---	0.0765
31		---	---	ND	---	0.199
32		20.998	1.10	0.0699	---	0.0383
33	21/33	---	---	ND	---	0.207
34		---	---	ND	---	0.0383
35		---	---	ND	---	0.0383
36		---	---	ND	---	0.0383
37		---	---	ND	---	0.0811
38		---	---	ND	---	0.0383
39		---	---	ND	---	0.0383
40	40/41/71	28.084	0.79	0.260	---	0.115
41	40/41/71	28.084	0.79	(0.260)	---	0.115
42		27.542	0.74	0.158	---	0.0383
43	43/73	---	---	ND	---	0.0765
44	44/47/65	27.031	0.78	0.769	---	0.115
45	45/51	24.077	0.73	0.131	---	0.0765
46		24.309	0.79	0.0634	---	0.0383
47	44/47/65	27.031	0.78	(0.769)	---	0.115
48		---	---	ND	---	0.0383

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

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ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

Report No.....10654073

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Method 1668C Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-DS1-202305
Lab Sample ID 40262368005
Filename P230529B_06

Table with 7 columns: IUPAC, Co-elutions, RT, Ratio, Concentration ng/L, EMPC ng/L, EML ng/L. Rows 49-96.

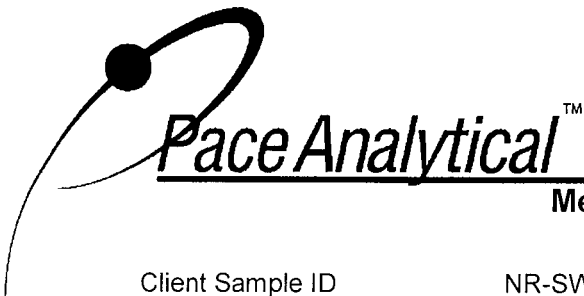
Conc = Concentration
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-DS1-202305
Lab Sample ID 40262368005
Filename P230529B_06

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	34.356	1.48	(0.504)	---	0.230
98	93/98/100/102	---	---	ND	---	0.153
99		33.845	1.53	0.473	---	0.0383
100	93/98/100/102	---	---	ND	---	0.153
101	90/101/113	33.227	1.54	(0.912)	---	0.115
102	93/98/100/102	---	---	ND	---	0.153
103		---	---	ND	---	0.0383
104		---	---	ND	---	0.0383
105		39.589	1.46	0.136	---	0.0383
106		---	---	ND	---	0.0383
107	107/124	---	---	ND	---	0.0765
108	86/87/97/108/119/125	34.356	1.48	(0.504)	---	0.230
109		37.929	1.50	0.0728	---	0.0383
110	110/115	35.269	1.58	1.37	---	0.0765
111		---	---	ND	---	0.0383
112		---	---	ND	---	0.0383
113	90/101/113	33.227	1.54	(0.912)	---	0.115
114		---	---	ND	---	0.0383
115	110/115	35.269	1.58	(1.37)	---	0.0765
116	85/116/117	35.068	1.40	(0.136)	---	0.115
117	85/116/117	35.068	1.40	(0.136)	---	0.115
118		38.398	1.52	0.534	---	0.0597
119	86/87/97/108/119/125	34.356	1.48	(0.504)	---	0.230
120		---	---	ND	---	0.0383
121		---	---	ND	---	0.0383
122		---	---	ND	---	0.0383
123		---	---	ND	---	0.0383
124	107/124	---	---	ND	---	0.0765
125	86/87/97/108/119/125	34.356	1.48	(0.504)	---	0.230
126		---	---	ND	---	0.0383
127		---	---	ND	---	0.0383
128	128/166	42.875	1.24	0.122	---	0.0765
129	129/138/163	41.601	1.18	0.638	---	0.115
130		40.930	1.16	0.0605	---	0.0383
131		---	---	ND	---	0.0383
132		38.499	1.29	0.282	---	0.0383
133		---	---	ND	---	0.0383
134	134/143	---	---	ND	---	0.0765
135	135/151	36.228	1.27	0.311	---	0.0765
136		33.722	1.25	0.125	---	0.0383
137		---	---	ND	---	0.0383
138	129/138/163	41.601	1.18	(0.638)	---	0.115
139	139/140	---	---	ND	---	0.0765
140	139/140	---	---	ND	---	0.0765
141		40.511	1.23	0.0744	---	0.0383
142		---	---	ND	---	0.0383
143	134/143	---	---	ND	---	0.0765
144		---	---	ND	---	0.0383

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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Report No.....10654073



Method 1668C Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-DS1-202305
Lab Sample ID 40262368005
Filename P230529B_06

Table with 7 columns: IUPAC, Co-elutions, RT, Ratio, Concentration ng/L, EMPC ng/L, EML ng/L. Rows 145-192.

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

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Report No.....10654073

**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-DS1-202305
Lab Sample ID 40262368005
Filename P230529B_06

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	47.257	1.01	(0.124)	---	0.0765
194		---	---	ND	---	0.0383
195		---	---	ND	---	0.0383
196		---	---	ND	---	0.0383
197	197/200	---	---	ND	---	0.0765
198	198/199	---	---	ND	---	0.0765
199	198/199	---	---	ND	---	0.0765
200	197/200	---	---	ND	---	0.0765
201		---	---	ND	---	0.0383
202		---	---	ND	---	0.0383
203		---	---	ND	---	0.0383
204		---	---	ND	---	0.0383
205		---	---	ND	---	0.0383
206		---	---	ND	---	0.0383
207		---	---	ND	---	0.0383
208		---	---	ND	---	0.0383
209		---	---	ND	---	0.0383

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
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REPORT OF LABORATORY ANALYSIS

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Report No.....10654073



**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-DS1-202305
Lab Sample ID 40262368005
Filename P230529B_06

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	0.235
Total Trichloro Biphenyls	0.827
Total Tetrachloro Biphenyls	4.86
Total Pentachloro Biphenyls	6.06
Total Hexachloro Biphenyls	3.04
Total Heptachloro Biphenyls	0.455
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	15.5

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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Report No.....10654073



Method 1668C Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID NR-SW-OU4-202305
Lab Sample ID 40262368006
Filename P230529B_07
Injected By BAL
Total Amount Extracted 1040 mL
% Moisture NA
Dry Weight Extracted NA
ICAL ID P230529B02
CCal Filename(s) P230529B_01
Method Blank ID BLANK-106282
Matrix Water
Dilution NA
Collected 05/16/2023 13:15
Received 05/20/2023 18:45
Extracted 05/23/2023 12:15
Analyzed 05/29/2023 22:22

Table with 7 columns: PCB Isomer, IUPAC, RT, Ratio, ng's Added, ng's Found, % Recovery. Rows include Labeled Analytes, Cleanup Standards, and Recovery Standards.

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

Report No.....10654073

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-OU4-202305
Lab Sample ID 40262368006
Filename P230529B_07

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.0384
2		---	---	ND	---	0.0384
3		---	---	ND	---	0.0384
4		---	---	ND	---	0.0384
5		---	---	ND	---	0.0384
6		---	---	ND	---	0.0384
7		---	---	ND	---	0.0384
8		---	---	ND	---	0.0384
9		---	---	ND	---	0.0384
10		---	---	ND	---	0.0384
11		---	---	ND	---	0.376
12	12/13	---	---	ND	---	0.0768
13	12/13	---	---	ND	---	0.0768
14		---	---	ND	---	0.0384
15		---	---	ND	---	0.0507
16		---	---	ND	---	0.0384
17		---	---	ND	---	0.0384
18	18/30	---	---	ND	---	0.0768
19		---	---	ND	---	0.0384
20	20/28	---	---	ND	---	0.198
21	21/33	---	---	ND	---	0.207
22		---	---	ND	---	0.146
23		---	---	ND	---	0.0384
24		---	---	ND	---	0.0384
25		---	---	ND	---	0.0384
26	26/29	---	---	ND	---	0.0768
27		---	---	ND	---	0.0384
28	20/28	---	---	ND	---	0.198
29	26/29	---	---	ND	---	0.0768
30	18/30	---	---	ND	---	0.0768
31		---	---	ND	---	0.200
32		---	---	ND	---	0.0384
33	21/33	---	---	ND	---	0.207
34		---	---	ND	---	0.0384
35		---	---	ND	---	0.0384
36		---	---	ND	---	0.0384
37		---	---	ND	---	0.0814
38		---	---	ND	---	0.0384
39		---	---	ND	---	0.0384
40	40/41/71	---	---	ND	---	0.115
41	40/41/71	---	---	ND	---	0.115
42		27.527	0.82	0.0514	---	0.0384
43	43/73	---	---	ND	---	0.0768
44	44/47/65	27.017	0.78	0.240	---	0.115
45	45/51	---	---	ND	---	0.0768
46		---	---	ND	---	0.0384
47	44/47/65	27.017	0.78	(0.240)	---	0.115
48		---	---	ND	---	0.0384

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

Report No.....10654073

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Method 1668C Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-OU4-202305
Lab Sample ID 40262368006
Filename P230529B_07

Table with 7 columns: IUPAC, Co-elutions, RT, Ratio, Concentration ng/L, EMPC ng/L, EML ng/L. Rows 49-96.

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

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Report No.....10654073

**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-OU4-202305
Lab Sample ID 40262368006
Filename P230529B_07

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	---	---	ND	---	0.230
98	93/98/100/102	---	---	ND	---	0.154
99		33.831	1.65	0.164	---	0.0384
100	93/98/100/102	---	---	ND	---	0.154
101	90/101/113	33.212	1.49	(0.328)	---	0.115
102	93/98/100/102	---	---	ND	---	0.154
103		---	---	ND	---	0.0384
104		---	---	ND	---	0.0384
105		39.590	1.51	0.0623	---	0.0384
106		---	---	ND	---	0.0384
107	107/124	---	---	ND	---	0.0768
108	86/87/97/108/119/125	---	---	ND	---	0.230
109		---	---	ND	---	0.0384
110	110/115	35.269	1.53	0.422	---	0.0768
111		---	---	ND	---	0.0384
112		---	---	ND	---	0.0384
113	90/101/113	33.212	1.49	(0.328)	---	0.115
114		---	---	ND	---	0.0384
115	110/115	35.269	1.53	(0.422)	---	0.0768
116	85/116/117	---	---	ND	---	0.115
117	85/116/117	---	---	ND	---	0.115
118		38.382	1.59	0.203	---	0.0599
119	86/87/97/108/119/125	---	---	ND	---	0.230
120		---	---	ND	---	0.0384
121		---	---	ND	---	0.0384
122		---	---	ND	---	0.0384
123		---	---	ND	---	0.0384
124	107/124	---	---	ND	---	0.0768
125	86/87/97/108/119/125	---	---	ND	---	0.230
126		---	---	ND	---	0.0384
127		---	---	ND	---	0.0384
128	128/166	---	---	ND	---	0.0768
129	129/138/163	41.602	1.25	0.230	---	0.115
130		---	---	ND	---	0.0384
131		---	---	ND	---	0.0384
132		38.483	1.19	0.0851	---	0.0384
133		---	---	ND	---	0.0384
134	134/143	---	---	ND	---	0.0768
135	135/151	36.229	1.20	0.0868	---	0.0768
136		---	---	ND	---	0.0384
137		---	---	ND	---	0.0384
138	129/138/163	41.602	1.25	(0.230)	---	0.115
139	139/140	---	---	ND	---	0.0768
140	139/140	---	---	ND	---	0.0768
141		---	---	ND	---	0.0384
142		---	---	ND	---	0.0384
143	134/143	---	---	ND	---	0.0768
144		---	---	ND	---	0.0384

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

Report No.....10654073

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Method 1668C Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-OU4-202305
Lab Sample ID 40262368006
Filename P230529B_07

Table with 7 columns: IUPAC, Co-elutions, RT, Ratio, Concentration ng/L, EMPC ng/L, EML ng/L. Rows 145-192.

Conc = Concentration
EML =Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

Report No.....10654073

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-OU4-202305
Lab Sample ID 40262368006
Filename P230529B_07

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	---	---	ND	---	0.0768
194		---	---	ND	---	0.0384
195		---	---	ND	---	0.0384
196		---	---	ND	---	0.0384
197	197/200	---	---	ND	---	0.0768
198	198/199	---	---	ND	---	0.0768
199	198/199	---	---	ND	---	0.0768
200	197/200	---	---	ND	---	0.0768
201		---	---	ND	---	0.0384
202		---	---	ND	---	0.0384
203		---	---	ND	---	0.0384
204		---	---	ND	---	0.0384
205		---	---	ND	---	0.0384
206		---	---	ND	---	0.0384
207		---	---	ND	---	0.0384
208		---	---	ND	---	0.0384
209		---	---	ND	---	0.0384

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

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Report No.....10654073



**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-OU4-202305
Lab Sample ID 40262368006
Filename P230529B_07

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	0.914
Total Pentachloro Biphenyls	1.62
Total Hexachloro Biphenyls	0.760
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	3.29

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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Report No.....10654073



Method 1668C Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Table with 4 columns: Client's Sample ID, Lab Sample ID, Filename, Injected By, Total Amount Extracted, % Moisture, Dry Weight Extracted, ICAL ID, CCal Filename(s), Method Blank ID, Matrix, Dilution, Collected, Received, Extracted, Analyzed.

Main data table with 7 columns: PCB Isomer, IUPAC, RT, Ratio, ng's Added, ng's Found, % Recovery. Includes Labeled Analytes, Cleanup Standards, and Recovery Standards.

Conc = Concentration
EML =Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

Report No.....10654073

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Method 1668C Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-BKG1-202305
Lab Sample ID 40262368007
Filename P230529B_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.0387
2		---	---	ND	---	0.0387
3		---	---	ND	---	0.0387
4		---	---	ND	---	0.0387
5		---	---	ND	---	0.0387
6		---	---	ND	---	0.0387
7		---	---	ND	---	0.0387
8		---	---	ND	---	0.0387
9		---	---	ND	---	0.0387
10		---	---	ND	---	0.0387
11		---	---	ND	---	0.379
12	12/13	---	---	ND	---	0.0774
13	12/13	---	---	ND	---	0.0774
14		---	---	ND	---	0.0387
15		---	---	ND	---	0.0511
16		---	---	ND	---	0.0387
17		---	---	ND	---	0.0387
18	18/30	---	---	ND	---	0.0774
19		---	---	ND	---	0.0387
20	20/28	---	---	ND	---	0.200
21	21/33	---	---	ND	---	0.209
22		---	---	ND	---	0.147
23		---	---	ND	---	0.0387
24		---	---	ND	---	0.0387
25		---	---	ND	---	0.0387
26	26/29	---	---	ND	---	0.0774
27		---	---	ND	---	0.0387
28	20/28	---	---	ND	---	0.200
29	26/29	---	---	ND	---	0.0774
30	18/30	---	---	ND	---	0.0774
31		---	---	ND	---	0.201
32		---	---	ND	---	0.0387
33	21/33	---	---	ND	---	0.209
34		---	---	ND	---	0.0387
35		---	---	ND	---	0.0387
36		---	---	ND	---	0.0387
37		---	---	ND	---	0.0820
38		---	---	ND	---	0.0387
39		---	---	ND	---	0.0387
40	40/41/71	---	---	ND	---	0.116
41	40/41/71	---	---	ND	---	0.116
42		---	---	ND	---	0.0387
43	43/73	---	---	ND	---	0.0774
44	44/47/65	27.032	0.81	0.117	---	0.116
45	45/51	---	---	ND	---	0.0774
46		---	---	ND	---	0.0387
47	44/47/65	27.032	0.81	(0.117)	---	0.116
48		---	---	ND	---	0.0387

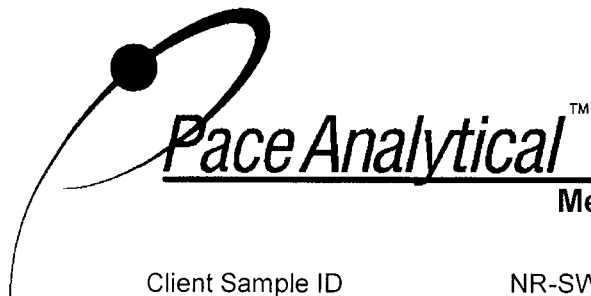
Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

Report No.....10654073

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-BKG1-202305
Lab Sample ID 40262368007
Filename P230529B_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	26.428	0.79	0.111	---	0.0774
50	50/53	---	---	ND	---	0.0774
51	45/51	---	---	ND	---	0.0774
52	---	---	---	ND	---	0.200
53	50/53	---	---	ND	---	0.0774
54	---	---	---	ND	---	0.0387
55	---	---	---	ND	---	0.0387
56	---	---	---	ND	---	0.0387
57	---	---	---	ND	---	0.0387
58	---	---	---	ND	---	0.0387
59	59/62/75	---	---	ND	---	0.116
60	---	---	---	ND	---	0.0387
61	61/70/74/76	---	---	ND	---	0.155
62	59/62/75	---	---	ND	---	0.116
63	---	---	---	ND	---	0.0387
64	---	---	---	ND	---	0.0387
65	44/47/65	27.032	0.81	(0.117)	---	0.116
66	---	---	---	ND	---	0.0913
67	---	---	---	ND	---	0.0387
68	---	---	---	ND	---	0.0387
69	49/69	26.428	0.79	(0.111)	---	0.0774
70	61/70/74/76	---	---	ND	---	0.155
71	40/41/71	---	---	ND	---	0.116
72	---	---	---	ND	---	0.0387
73	43/73	---	---	ND	---	0.0774
74	61/70/74/76	---	---	ND	---	0.155
75	59/62/75	---	---	ND	---	0.116
76	61/70/74/76	---	---	ND	---	0.155
77	---	---	---	ND	---	0.0387
78	---	---	---	ND	---	0.0387
79	---	---	---	ND	---	0.0387
80	---	---	---	ND	---	0.0387
81	---	---	---	ND	---	0.0387
82	---	---	---	ND	---	0.0387
83	---	---	---	ND	---	0.0387
84	---	---	---	ND	---	0.0387
85	85/116/117	---	---	ND	---	0.116
86	86/87/97/108/119/125	---	---	ND	---	0.232
87	86/87/97/108/119/125	---	---	ND	---	0.232
88	88/91	---	---	ND	---	0.0774
89	---	---	---	ND	---	0.0387
90	90/101/113	33.227	1.46	0.124	---	0.116
91	88/91	---	---	ND	---	0.0774
92	---	---	---	ND	---	0.0387
93	93/98/100/102	---	---	ND	---	0.155
94	---	---	---	ND	---	0.0387
95	---	---	---	ND	---	0.108
96	---	---	---	ND	---	0.0387

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

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REPORT OF LABORATORY ANALYSIS

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Method 1668C Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-BKG1-202305
Lab Sample ID 40262368007
Filename P230529B_08

Table with 7 columns: IUPAC, Co-elutions, RT, Ratio, Concentration ng/L, EMPC ng/L, EML ng/L. Rows 97-144.

Conc = Concentration
EML =Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
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**Method 1668C Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-BKG1-202305
 Lab Sample ID 40262368007
 Filename P230529B_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
145		---	---	ND	---	0.0387
146		---	---	ND	---	0.0387
147	147/149	37.208	1.31	0.0795	---	0.0774
148		---	---	ND	---	0.0387
149	147/149	37.208	1.31	(0.0795)	---	0.0774
150		---	---	ND	---	0.0387
151	135/151	---	---	ND	---	0.0774
152		---	---	ND	---	0.0387
153	153/168	---	---	ND	---	0.0774
154		---	---	ND	---	0.0387
155		---	---	ND	---	0.0387
156	156/157	---	---	ND	---	0.0774
157	156/157	---	---	ND	---	0.0774
158		---	---	ND	---	0.0387
159		---	---	ND	---	0.0387
160		---	---	ND	---	0.0387
161		---	---	ND	---	0.0387
162		---	---	ND	---	0.0387
163	129/138/163	---	---	ND	---	0.116
164		---	---	ND	---	0.0387
165		---	---	ND	---	0.0387
166	128/166	---	---	ND	---	0.0774
167		---	---	ND	---	0.0387
168	153/168	---	---	ND	---	0.0774
169		---	---	ND	---	0.0387
170		---	---	ND	---	0.0387
171	171/173	---	---	ND	---	0.0774
172		---	---	ND	---	0.0387
173	171/173	---	---	ND	---	0.0774
174		---	---	ND	---	0.0387
175		---	---	ND	---	0.0387
176		---	---	ND	---	0.0387
177		---	---	ND	---	0.0387
178		---	---	ND	---	0.0387
179		---	---	ND	---	0.0387
180	180/193	---	---	ND	---	0.0774
181		---	---	ND	---	0.0387
182		---	---	ND	---	0.0387
183	183/185	---	---	ND	---	0.0774
184		---	---	ND	---	0.0387
185	183/185	---	---	ND	---	0.0774
186		---	---	ND	---	0.0387
187		---	---	ND	---	0.0387
188		---	---	ND	---	0.0387
189		---	---	ND	---	0.0387
190		---	---	ND	---	0.0387
191		---	---	ND	---	0.0387
192		---	---	ND	---	0.0387

Conc = Concentration
 EML =Method Specified Reporting Limit (1668C)
 EMPC = Estimated Maximum Possible Concentration
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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-BKG1-202305
Lab Sample ID 40262368007
Filename P230529B_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	---	---	ND	---	0.0774
194		---	---	ND	---	0.0387
195		---	---	ND	---	0.0387
196		---	---	ND	---	0.0387
197	197/200	---	---	ND	---	0.0774
198	198/199	---	---	ND	---	0.0774
199	198/199	---	---	ND	---	0.0774
200	197/200	---	---	ND	---	0.0774
201		---	---	ND	---	0.0387
202		---	---	ND	---	0.0387
203		---	---	ND	---	0.0387
204		---	---	ND	---	0.0387
205		---	---	ND	---	0.0387
206		---	---	ND	---	0.0387
207		---	---	ND	---	0.0387
208		---	---	ND	---	0.0387
209		---	---	ND	---	0.0387

Conc = Concentration
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Report No.....10654073



**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-BKG1-202305
Lab Sample ID 40262368007
Filename P230529B_08

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	0.228
Total Pentachloro Biphenyls	0.439
Total Hexachloro Biphenyls	0.0795
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	0.746

ND = Not Detected

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Report No.....10654073



Method 1668C Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-OU3-202305	Matrix	Water
Lab Sample ID	40262368008	Dilution	NA
Filename	P230529B_09	Collected	05/16/2023 15:10
Injected By	BAL	Received	05/20/2023 18:45
Total Amount Extracted	1030 mL	Extracted	05/23/2023 12:15
% Moisture	NA	Analyzed	05/30/2023 00:28
Dry Weight Extracted	NA		
ICAL ID	P230529B02		
CCal Filename(s)	P230529B_01		
Method Blank ID	BLANK-106282		

PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.137	2.99	2.0	1.48	74
13C-4-MoCB	3	12.964	3.09	2.0	1.61	80
13C-2,2'-DiCB	4	13.269	1.56	2.0	2.23	112
13C-4,4'-DiCB	15	20.404	1.56	2.0	1.80	90
13C-2,2',6-TrCB	19	17.122	1.02	2.0	2.23	112
13C-3,4,4'-TrCB	37	28.208	1.01	2.0	1.32	66
13C-2,2',6,6'-TeCB	54	20.751	0.78	2.0	1.52	76
13C-3,4,4',5-TeCB	81	35.362	0.79	2.0	1.38	69
13C-3,3',4,4'-TeCB	77	35.934	0.80	2.0	1.32	66
13C-2,2',4,6,6'-PeCB	104	26.909	1.58	2.0	1.82	91
13C-2,3,3',4,4'-PeCB	105	39.556	1.62	2.0	1.09	55
13C-2,3,4,4',5-PeCB	114	38.918	1.57	2.0	1.11	56
13C-2,3',4,4',5-PeCB	118	38.348	1.58	2.0	1.12	56
13C-2,3',4,4',5'-PeCB	123	38.013	1.56	2.0	1.11	55
13C-3,3',4,4',5-PeCB	126	42.725	1.50	2.0	0.910	46
13C-2,2',4,4',6,6'-HxCB	155	32.979	1.23	2.0	2.47	124
13C-HxCB (156/157)	156/157	45.816	1.23	4.0	2.22	55
13C-2,3',4,4',5,5'-HxCB	167	44.642	1.27	2.0	1.17	58
13C-3,3',4,4',5,5'-HxCB	169	49.103	1.24	2.0	1.25	62
13C-2,2',3,4',5,6,6'-HpCB	188	38.918	1.02	2.0	2.33	116
13C-2,3,3',4,4',5,5'-HpCB	189	51.676	1.04	2.0	1.49	74
13C-2,2',3,3',5,5',6,6'-OxCB	202	44.407	0.91	2.0	1.71	85
13C-2,3,3',4,4',5,5',6-OxCB	205	54.284	0.90	2.0	1.80	90
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.051	0.80	2.0	2.04	102
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.201	0.80	2.0	2.18	109
13C-DeCB	209	57.689	0.74	2.0	2.11	105
Cleanup Standards						
13C-2,4,4'-TrCB	28	23.845	1.04	2.0	1.28	64
13C-2,3,3',5,5'-PeCB	111	35.981	1.53	2.0	1.57	78
13C-2,2',3,3',5,5',6-HpCB	178	42.021	1.06	2.0	1.94	97
Recovery Standards						
13C-2,5-DiCB	9	15.751	1.56	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.841	0.78	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.181	1.53	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.568	1.25	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OxCB	194	53.810	0.90	2.0	NA	NA

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REPORT OF LABORATORY ANALYSIS

Report No.....10654073



Method 1668C Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-OU3-202305
Lab Sample ID 40262368008
Filename P230529B_09

Table with 7 columns: IUPAC, Co-elutions, RT, Ratio, Concentration ng/L, EMPC ng/L, EML ng/L. Rows 1-48 containing analytical data.

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-OU3-202305
Lab Sample ID 40262368008
Filename P230529B_09

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	26.413	0.78	3.84	---	0.0774
50	50/53	23.211	0.77	0.982	---	0.0774
51	45/51	24.046	0.75	(0.725)	---	0.0774
52		25.872	0.78	5.10	---	0.200
53	50/53	23.211	0.77	(0.982)	---	0.0774
54		20.767	0.79	0.0849	---	0.0387
55		---	---	ND	---	0.0387
56		32.097	0.73	0.0926	---	0.0387
57		29.978	0.77	0.173	---	0.0387
58		---	---	ND	---	0.0387
59	59/62/75	27.388	0.75	0.163	---	0.116
60		---	---	ND	---	0.0387
61	61/70/74/76	30.999	0.77	0.865	---	0.155
62	59/62/75	27.388	0.75	(0.163)	---	0.116
63		30.690	0.84	0.0958	---	0.0387
64		28.301	0.78	0.323	---	0.0387
65	44/47/65	27.017	0.77	(2.73)	---	0.116
66		31.386	0.73	0.636	---	0.0914
67		30.396	0.80	0.0627	---	0.0387
68		29.514	0.87	0.128	---	0.0387
69	49/69	26.413	0.78	(3.84)	---	0.0774
70	61/70/74/76	30.999	0.77	(0.865)	---	0.155
71	40/41/71	28.069	0.77	(0.913)	---	0.116
72		29.205	0.76	0.178	---	0.0387
73	43/73	26.042	0.74	(0.172)	---	0.0774
74	61/70/74/76	30.999	0.77	(0.865)	---	0.155
75	59/62/75	27.388	0.75	(0.163)	---	0.116
76	61/70/74/76	30.999	0.77	(0.865)	---	0.155
77		---	---	ND	---	0.0387
78		---	---	ND	---	0.0387
79		---	---	ND	---	0.0387
80		---	---	ND	---	0.0387
81		---	---	ND	---	0.0387
82		35.594	1.55	0.126	---	0.0387
83		33.691	1.51	0.345	---	0.0387
84		31.247	1.50	0.864	---	0.0387
85	85/116/117	35.099	1.60	0.446	---	0.116
86	86/87/97/108/119/125	34.341	1.51	1.57	---	0.232
87	86/87/97/108/119/125	34.341	1.51	(1.57)	---	0.232
88	88/91	31.030	1.56	0.832	---	0.0774
89		---	---	ND	---	0.0387
90	90/101/113	33.211	1.53	2.85	---	0.116
91	88/91	31.030	1.56	(0.832)	---	0.0774
92		32.593	1.50	1.52	---	0.0387
93	93/98/100/102	30.365	1.52	0.315	---	0.155
94		29.622	1.56	0.158	---	0.0387
95		30.086	1.53	2.86	---	0.108
96		27.311	1.41	0.0529	---	0.0387

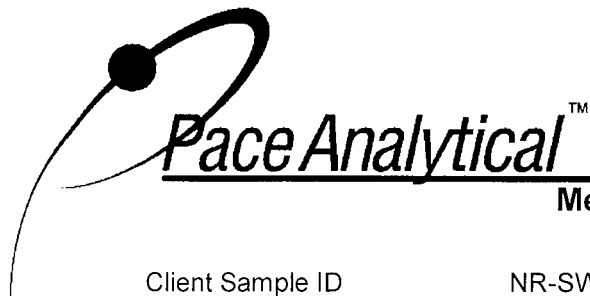
Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-OU3-202305
Lab Sample ID 40262368008
Filename P230529B_09

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	34.341	1.51	(1.57)	---	0.232
98	93/98/100/102	30.365	1.52	(0.315)	---	0.155
99		33.830	1.56	1.31	---	0.0387
100	93/98/100/102	30.365	1.52	(0.315)	---	0.155
101	90/101/113	33.211	1.53	(2.85)	---	0.116
102	93/98/100/102	30.365	1.52	(0.315)	---	0.155
103		29.406	1.56	0.122	---	0.0387
104		---	---	ND	---	0.0387
105		39.590	1.51	0.472	---	0.0387
106		---	---	ND	---	0.0387
107	107/124	---	---	ND	---	0.0774
108	86/87/97/108/119/125	34.341	1.51	(1.57)	---	0.232
109		37.929	1.51	0.245	---	0.0387
110	110/115	35.269	1.55	4.27	---	0.0774
111		---	---	ND	---	0.0387
112		---	---	ND	---	0.0387
113	90/101/113	33.211	1.53	(2.85)	---	0.116
114		---	---	ND	---	0.0387
115	110/115	35.269	1.55	(4.27)	---	0.0774
116	85/116/117	35.099	1.60	(0.446)	---	0.116
117	85/116/117	35.099	1.60	(0.446)	---	0.116
118		38.382	1.51	1.58	---	0.0604
119	86/87/97/108/119/125	34.341	1.51	(1.57)	---	0.232
120		---	---	ND	---	0.0387
121		---	---	ND	---	0.0387
122		---	---	ND	---	0.0387
123		---	---	ND	---	0.0387
124	107/124	---	---	ND	---	0.0774
125	86/87/97/108/119/125	34.341	1.51	(1.57)	---	0.232
126		---	---	ND	---	0.0387
127		---	---	ND	---	0.0387
128	128/166	42.876	1.31	0.353	---	0.0774
129	129/138/163	41.585	1.25	1.97	---	0.116
130		40.914	1.24	0.186	---	0.0387
131		---	---	ND	---	0.0387
132		38.483	1.18	0.912	---	0.0387
133		39.002	1.37	0.0813	---	0.0387
134	134/143	37.410	1.27	0.205	---	0.0774
135	135/151	36.228	1.28	1.02	---	0.0774
136		33.722	1.18	0.401	---	0.0387
137		41.149	1.17	0.0997	---	0.0387
138	129/138/163	41.585	1.25	(1.97)	---	0.116
139	139/140	---	---	ND	---	0.0774
140	139/140	---	---	ND	---	0.0774
141		40.512	1.25	0.226	---	0.0387
142		---	---	ND	---	0.0387
143	134/143	37.410	1.27	(0.205)	---	0.0774
144		36.832	1.17	0.0565	---	0.0387

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REPORT OF LABORATORY ANALYSIS

Report No.....10654073

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-OU3-202305
Lab Sample ID 40262368008
Filename P230529B_09

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
145		---	---	ND	---	0.0387
146		39.673	1.29	0.368	---	0.0387
147	147/149	37.191	1.22	2.06	---	0.0774
148		---	---	ND	---	0.0387
149	147/149	37.191	1.22	(2.06)	---	0.0774
150		---	---	ND	---	0.0387
151	135/151	36.228	1.28	(1.02)	---	0.0774
152		---	---	ND	---	0.0387
153	153/168	40.311	1.27	1.35	---	0.0774
154		36.538	1.34	0.0743	---	0.0387
155		---	---	ND	---	0.0387
156	156/157	45.833	1.22	0.263	---	0.0774
157	156/157	45.833	1.22	(0.263)	---	0.0774
158		42.004	1.26	0.165	---	0.0387
159		---	---	ND	---	0.0387
160		---	---	ND	---	0.0387
161		---	---	ND	---	0.0387
162		---	---	ND	---	0.0387
163	129/138/163	41.585	1.25	(1.97)	---	0.116
164		41.266	1.27	0.136	---	0.0387
165		---	---	ND	---	0.0387
166	128/166	42.876	1.31	(0.353)	---	0.0774
167		44.659	1.14	0.0842	---	0.0387
168	153/168	40.311	1.27	(1.35)	---	0.0774
169		---	---	ND	---	0.0387
170		48.533	1.03	0.249	---	0.0387
171	171/173	44.961	1.04	0.0829	---	0.0774
172		46.587	0.99	0.0473	---	0.0387
173	171/173	44.961	1.04	(0.0829)	---	0.0774
174		43.837	1.07	0.227	---	0.0387
175		---	---	ND	---	0.0387
176		40.160	1.03	0.0392	---	0.0387
177		44.290	1.08	0.194	---	0.0387
178		42.038	0.93	0.0913	---	0.0387
179		39.254	1.01	0.153	---	0.0387
180	180/193	47.258	1.01	0.423	---	0.0774
181		---	---	ND	---	0.0387
182		---	---	ND	---	0.0387
183	183/185	43.636	1.05	0.144	---	0.0774
184		---	---	ND	---	0.0387
185	183/185	43.636	1.05	(0.144)	---	0.0774
186		---	---	ND	---	0.0387
187		42.977	1.04	0.349	---	0.0387
188		---	---	ND	---	0.0387
189		---	---	ND	---	0.0387
190		49.069	0.98	0.0539	---	0.0387
191		---	---	ND	---	0.0387
192		---	---	ND	---	0.0387

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-OU3-202305
Lab Sample ID 40262368008
Filename P230529B_09

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	47.258	1.01	(0.423)	---	0.0774
194		53.831	0.86	0.0966	---	0.0387
195		51.482	1.01	0.0410	---	0.0387
196		49.924	0.89	0.0510	---	0.0387
197	197/200	---	---	ND	---	0.0774
198	198/199	49.237	0.82	0.135	---	0.0774
199	198/199	49.237	0.82	(0.135)	---	0.0774
200	197/200	---	---	ND	---	0.0774
201		---	---	ND	---	0.0387
202		---	---	ND	---	0.0387
203		50.125	0.94	0.0699	---	0.0387
204		---	---	ND	---	0.0387
205		---	---	ND	---	0.0387
206		---	---	ND	---	0.0387
207		---	---	ND	---	0.0387
208		---	---	ND	---	0.0387
209		---	---	ND	---	0.0387

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**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-OU3-202305
Lab Sample ID 40262368008
Filename P230529B_09

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	0.225
Total Dichloro Biphenyls	1.68
Total Trichloro Biphenyls	5.45
Total Tetrachloro Biphenyls	18.0
Total Pentachloro Biphenyls	19.9
Total Hexachloro Biphenyls	10.0
Total Heptachloro Biphenyls	2.05
Total Octachloro Biphenyls	0.394
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	57.8

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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Report No.....10654073



Method 1668C Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-OU2-202305		
Lab Sample ID	40262368009		
Filename	P230529B_10		
Injected By	BAL		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	05/16/2023 16:15
ICAL ID	P230529B02	Received	05/20/2023 18:45
CCal Filename(s)	P230529B_01	Extracted	05/23/2023 12:15
Method Blank ID	BLANK-106282	Analyzed	05/30/2023 01:31

PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.159	2.87	2.0	1.58	79
13C-4-MoCB	3	12.975	3.04	2.0	1.67	84
13C-2,2'-DiCB	4	13.280	1.49	2.0	2.31	115
13C-4,4'-DiCB	15	20.404	1.52	2.0	1.75	87
13C-2,2',6-TrCB	19	17.132	0.98	2.0	2.39	120
13C-3,4,4'-TrCB	37	28.207	1.05	2.0	1.25	63
13C-2,2',6,6'-TeCB	54	20.750	0.80	2.0	1.50	75
13C-3,4,4',5-TeCB	81	35.361	0.77	2.0	1.35	68
13C-3,3',4,4'-TeCB	77	35.934	0.81	2.0	1.28	64
13C-2,2',4,6,6'-PeCB	104	26.908	1.57	2.0	1.82	91
13C-2,3,3',4,4'-PeCB	105	39.572	1.61	2.0	1.07	53
13C-2,3,4,4',5-PeCB	114	38.918	1.56	2.0	1.02	51
13C-2,3',4,4',5-PeCB	118	38.365	1.58	2.0	1.09	54
13C-2,3',4,4',5'-PeCB	123	38.029	1.61	2.0	1.08	54
13C-3,3',4,4',5-PeCB	126	42.742	1.49	2.0	0.901	45
13C-2,2',4,4',6,6'-HxCB	155	32.994	1.28	2.0	2.42	121
13C-HxCB (156/157)	156/157	45.816	1.29	4.0	2.10	52
13C-2,3',4,4',5,5'-HxCB	167	44.642	1.28	2.0	1.13	56
13C-3,3',4,4',5,5'-HxCB	169	49.102	1.27	2.0	1.21	60
13C-2,2',3,4',5,6,6'-HpCB	188	38.918	1.04	2.0	2.28	114
13C-2,3,3',4,4',5,5'-HpCB	189	51.697	1.06	2.0	1.37	69
13C-2,2',3,3',5,5',6,6'-OxCB	202	44.407	0.91	2.0	1.64	82
13C-2,3,3',4,4',5,5',6-OxCB	205	54.283	0.89	2.0	1.74	87
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.050	0.78	2.0	1.96	98
13C-2,2',3,3',4,4',5,5',6,6'-NoCB	208	51.201	0.79	2.0	2.04	102
13C-DeCB	209	57.689	0.68	2.0	2.13	106
Cleanup Standards						
13C-2,4,4'-TrCB	28	23.845	1.03	2.0	1.16	58
13C-2,3,3',5,5'-PeCB	111	35.996	1.55	2.0	1.50	75
13C-2,2',3,3',5,5',6-HpCB	178	42.020	1.04	2.0	1.75	87
Recovery Standards						
13C-2,5-DiCB	9	15.762	1.54	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.856	0.80	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.195	1.58	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.568	1.24	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OxCB	194	53.809	0.87	2.0	NA	NA

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Method 1668C Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-OU2-202305
Lab Sample ID 40262368009
Filename P230529B_10

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		10.170	2.90	0.290	---	0.0383
2		---	---	ND	---	0.0383
3		---	---	ND	---	0.0383
4		13.303	1.47	1.81	---	0.0383
5		---	---	ND	---	0.0383
6		16.270	1.47	0.194	---	0.0383
7		15.993	1.58	0.0941	---	0.0383
8		16.800	1.53	0.161	---	0.0383
9		---	---	ND	---	0.0383
10		---	---	ND	---	0.0383
11		---	---	ND	---	0.376
12	12/13	---	---	ND	---	0.0767
13	12/13	---	---	ND	---	0.0767
14		---	---	ND	---	0.0383
15		20.426	1.60	0.244	---	0.0506
16		20.360	1.08	0.0798	---	0.0383
17		19.840	1.03	1.88	---	0.0383
18	18/30	19.365	1.02	0.323	---	0.0767
19		17.154	0.99	1.56	---	0.0383
20	20/28	23.860	1.02	0.753	---	0.198
21	21/33	---	---	ND	---	0.207
22		---	---	ND	---	0.146
23		---	---	ND	---	0.0383
24		---	---	ND	---	0.0383
25		23.195	1.01	0.638	---	0.0383
26	26/29	22.916	0.99	1.24	---	0.0767
27		20.094	1.01	0.103	---	0.0383
28	20/28	23.860	1.02	(0.753)	---	0.198
29	26/29	22.916	0.99	(1.24)	---	0.0767
30	18/30	19.365	1.02	(0.323)	---	0.0767
31		23.535	1.04	0.288	---	0.199
32		20.983	1.01	0.784	---	0.0383
33	21/33	---	---	ND	---	0.207
34		---	---	ND	---	0.0383
35		---	---	ND	---	0.0383
36		---	---	ND	---	0.0383
37		---	---	ND	---	0.0813
38		---	---	ND	---	0.0383
39		---	---	ND	---	0.0383
40	40/41/71	28.068	0.78	1.41	---	0.115
41	40/41/71	28.068	0.78	(1.41)	---	0.115
42		27.527	0.76	0.748	---	0.0383
43	43/73	26.042	0.74	0.237	---	0.0767
44	44/47/65	27.031	0.76	4.27	---	0.115
45	45/51	24.061	0.78	1.25	---	0.0767
46		24.309	0.79	0.337	---	0.0383
47	44/47/65	27.031	0.76	(4.27)	---	0.115
48		26.722	0.81	0.0395	---	0.0383

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-OU2-202305
Lab Sample ID 40262368009
Filename P230529B_10

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	26.413	0.76	4.71	---	0.0767
50	50/53	23.210	0.77	1.32	---	0.0767
51	45/51	24.061	0.78	(1.25)	---	0.0767
52		25.871	0.77	6.03	---	0.198
53	50/53	23.210	0.77	(1.32)	---	0.0767
54		20.766	0.74	0.144	---	0.0383
55		---	---	ND	---	0.0383
56		32.082	0.79	0.139	---	0.0383
57		29.962	0.74	0.158	---	0.0383
58		---	---	ND	---	0.0383
59	59/62/75	27.387	0.79	0.216	---	0.115
60		---	---	ND	---	0.0383
61	61/70/74/76	31.014	0.79	1.44	---	0.153
62	59/62/75	27.387	0.79	(0.216)	---	0.115
63		30.689	0.79	0.142	---	0.0383
64		28.300	0.78	0.444	---	0.0383
65	44/47/65	27.031	0.76	(4.27)	---	0.115
66		31.385	0.76	1.11	---	0.0905
67		30.411	0.79	0.0753	---	0.0383
68		29.529	0.78	0.163	---	0.0383
69	49/69	26.413	0.76	(4.71)	---	0.0767
70	61/70/74/76	31.014	0.79	(1.44)	---	0.153
71	40/41/71	28.068	0.78	(1.41)	---	0.115
72		29.204	0.77	0.204	---	0.0383
73	43/73	26.042	0.74	(0.237)	---	0.0767
74	61/70/74/76	31.014	0.79	(1.44)	---	0.153
75	59/62/75	27.387	0.79	(0.216)	---	0.115
76	61/70/74/76	31.014	0.79	(1.44)	---	0.153
77		35.965	0.83	0.0601	---	0.0383
78		---	---	ND	---	0.0383
79		34.371	0.79	0.0621	---	0.0383
80		---	---	ND	---	0.0383
81		---	---	ND	---	0.0383
82		35.609	1.61	0.184	---	0.0383
83		33.706	1.60	0.434	---	0.0383
84		31.246	1.54	1.17	---	0.0383
85	85/116/117	35.114	1.63	0.645	---	0.115
86	86/87/97/108/119/125	34.356	1.57	2.45	---	0.230
87	86/87/97/108/119/125	34.356	1.57	(2.45)	---	0.230
88	88/91	31.029	1.52	1.16	---	0.0767
89		---	---	ND	---	0.0383
90	90/101/113	33.211	1.57	4.55	---	0.115
91	88/91	31.029	1.52	(1.16)	---	0.0767
92		32.592	1.56	1.89	---	0.0383
93	93/98/100/102	30.349	1.54	0.444	---	0.153
94		29.622	1.56	0.206	---	0.0383
95		30.101	1.50	3.99	---	0.107
96		27.310	1.51	0.0758	---	0.0383

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Method 1668C Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-OU2-202305
Lab Sample ID 40262368009
Filename P230529B_10

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	34.356	1.57	(2.45)	---	0.230
98	93/98/100/102	30.349	1.54	(0.444)	---	0.153
99		33.845	1.58	2.19	---	0.0383
100	93/98/100/102	30.349	1.54	(0.444)	---	0.153
101	90/101/113	33.211	1.57	(4.55)	---	0.115
102	93/98/100/102	30.349	1.54	(0.444)	---	0.153
103		29.405	1.54	0.147	---	0.0383
104		---	---	ND	---	0.0383
105		39.589	1.48	0.765	---	0.0383
106		---	---	ND	---	0.0383
107	107/124	37.677	1.46	0.107	---	0.0767
108	86/87/97/108/119/125	34.356	1.57	(2.45)	---	0.230
109		37.929	1.58	0.375	---	0.0383
110	110/115	35.269	1.57	6.01	---	0.0767
111		---	---	ND	---	0.0383
112		---	---	ND	---	0.0383
113	90/101/113	33.211	1.57	(4.55)	---	0.115
114		---	---	ND	---	0.0383
115	110/115	35.269	1.57	(6.01)	---	0.0767
116	85/116/117	35.114	1.63	(0.645)	---	0.115
117	85/116/117	35.114	1.63	(0.645)	---	0.115
118		38.381	1.46	2.85	---	0.0598
119	86/87/97/108/119/125	34.356	1.57	(2.45)	---	0.230
120		36.506	1.48	0.0420	---	0.0383
121		---	---	ND	---	0.0383
122		---	---	ND	---	0.0383
123		---	---	ND	---	0.0383
124	107/124	37.677	1.46	(0.107)	---	0.0767
125	86/87/97/108/119/125	34.356	1.57	(2.45)	---	0.230
126		---	---	ND	---	0.0383
127		---	---	ND	---	0.0383
128	128/166	42.893	1.21	0.546	---	0.0767
129	129/138/163	41.601	1.23	2.99	---	0.115
130		40.931	1.22	0.263	---	0.0383
131		38.029	1.31	0.0461	---	0.0383
132		38.499	1.22	1.33	---	0.0383
133		39.019	1.28	0.103	---	0.0383
134	134/143	37.409	1.11	0.285	---	0.0767
135	135/151	36.228	1.24	1.40	---	0.0767
136		33.722	1.27	0.565	---	0.0383
137		41.148	1.21	0.148	---	0.0383
138	129/138/163	41.601	1.23	(2.99)	---	0.115
139	139/140	37.828	1.18	0.0844	---	0.0767
140	139/140	37.828	1.18	(0.0844)	---	0.0767
141		40.511	1.33	0.382	---	0.0383
142		---	---	ND	---	0.0383
143	134/143	37.409	1.11	(0.285)	---	0.0767
144		36.831	1.27	0.104	---	0.0383

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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Report No.....10654073



Method 1668C Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-OU2-202305
Lab Sample ID 40262368009
Filename P230529B_10

Table with 7 columns: IUPAC, Co-elutions, RT, Ratio, Concentration ng/L, EMPC ng/L, EML ng/L. Rows 145-192.

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
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REPORT OF LABORATORY ANALYSIS

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Report No.....10654073

**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-OU2-202305
Lab Sample ID 40262368009
Filename P230529B_10

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	47.257	0.99	(0.669)	---	0.0767
194		53.831	0.90	0.140	---	0.0383
195		51.460	0.85	0.0643	---	0.0383
196		49.924	0.93	0.0697	---	0.0383
197	197/200	---	---	ND	---	0.0767
198	198/199	49.270	0.85	0.190	---	0.0767
199	198/199	49.270	0.85	(0.190)	---	0.0767
200	197/200	---	---	ND	---	0.0767
201		---	---	ND	---	0.0383
202		---	---	ND	---	0.0383
203		50.125	0.86	0.0965	---	0.0383
204		---	---	ND	---	0.0383
205		---	---	ND	---	0.0383
206		56.094	0.82	0.0396	---	0.0383
207		---	---	ND	---	0.0383
208		---	---	ND	---	0.0383
209		---	---	ND	---	0.0383

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

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Report No.....10654073



**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-OU2-202305
Lab Sample ID 40262368009
Filename P230529B_10

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	0.290
Total Dichloro Biphenyls	2.50
Total Trichloro Biphenyls	7.65
Total Tetrachloro Biphenyls	24.7
Total Pentachloro Biphenyls	29.7
Total Hexachloro Biphenyls	15.1
Total Heptachloro Biphenyls	3.05
Total Octachloro Biphenyls	0.560
Total Nonachloro Biphenyls	0.0396
Decachloro Biphenyls	ND
Total PCBs	83.6

ND = Not Detected

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Report No.....10654073



Method 1668C Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Table with 4 columns: Client's Sample ID, Lab Sample ID, Filename, Injected By, Total Amount Extracted, % Moisture, Dry Weight Extracted, ICAL ID, CCal Filename(s), Method Blank ID, Matrix, Dilution, Collected, Received, Extracted, Analyzed.

Main data table with 7 columns: PCB Isomer, IUPAC, RT, Ratio, ng's Added, ng's Found, % Recovery. Includes sections for Labeled Analytes, Cleanup Standards, and Recovery Standards.

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

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Report No.....10654073

**Method 1668C Polychlorobiphenyl
 Sample Analysis Results**

 Client Sample ID NR-SW-OU1-202305
 Lab Sample ID 40262368010
 Filename P230529B_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.0384
2		---	---	ND	---	0.0384
3		---	---	ND	---	0.0384
4		13.269	1.34	0.125	---	0.0384
5		---	---	ND	---	0.0384
6		---	---	ND	---	0.0384
7		---	---	ND	---	0.0384
8		---	---	ND	---	0.0384
9		---	---	ND	---	0.0384
10		---	---	ND	---	0.0384
11		---	---	ND	---	0.377
12	12/13	---	---	ND	---	0.0769
13	12/13	---	---	ND	---	0.0769
14		---	---	ND	---	0.0384
15		20.415	1.38	0.0574	---	0.0507
16		---	---	ND	---	0.0384
17		19.840	1.00	0.151	---	0.0384
18	18/30	---	---	ND	---	0.0769
19		17.132	1.00	0.152	---	0.0384
20	20/28	---	---	ND	---	0.198
21	21/33	---	---	ND	---	0.208
22		---	---	ND	---	0.146
23		---	---	ND	---	0.0384
24		---	---	ND	---	0.0384
25		23.180	1.03	0.0671	---	0.0384
26	26/29	22.902	1.01	0.130	---	0.0769
27		---	---	ND	---	0.0384
28	20/28	---	---	ND	---	0.198
29	26/29	22.902	1.01	(0.130)	---	0.0769
30	18/30	---	---	ND	---	0.0769
31		---	---	ND	---	0.200
32		20.968	1.07	0.0737	---	0.0384
33	21/33	---	---	ND	---	0.208
34		---	---	ND	---	0.0384
35		---	---	ND	---	0.0384
36		---	---	ND	---	0.0384
37		---	---	ND	---	0.0815
38		---	---	ND	---	0.0384
39		---	---	ND	---	0.0384
40	40/41/71	28.053	0.77	0.188	---	0.115
41	40/41/71	28.053	0.77	(0.188)	---	0.115
42		27.527	0.77	0.133	---	0.0384
43	43/73	---	---	ND	---	0.0769
44	44/47/65	27.017	0.76	0.792	---	0.115
45	45/51	24.046	0.74	0.146	---	0.0769
46		24.294	0.74	0.0536	---	0.0384
47	44/47/65	27.017	0.76	(0.792)	---	0.115
48		---	---	ND	---	0.0384

 Conc = Concentration
 EML = Method Specified Reporting Limit (1668C)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668C control limits
 Nn = Value obtained from additional analyses

 ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
 * = See Discussion
 X = Outside QC Limits
 RT = Retention Time
 I = Interference
 ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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Method 1668C Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-OU1-202305
Lab Sample ID 40262368010
Filename P230529B_11

Table with 7 columns: IUPAC, Co-elutions, RT, Ratio, Concentration ng/L, EMPC ng/L, EML ng/L. Rows 49-96.

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

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Method 1668C Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-OU1-202305
Lab Sample ID 40262368010
Filename P230529B_11

Table with 7 columns: IUPAC, Co-elutions, RT, Ratio, Concentration ng/L, EMPC ng/L, EML ng/L. Rows 97-144.

Conc = Concentration
EML =Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

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Method 1668C Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-OU1-202305
Lab Sample ID 40262368010
Filename P230529B_11

Table with 7 columns: IUPAC, Co-elutions, RT, Ratio, Concentration ng/L, EMPC ng/L, EML ng/L. Rows 145-192.

Conc = Concentration
EML =Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-OU1-202305
Lab Sample ID 40262368010
Filename P230529B_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	47.258	1.09	(0.0899)	---	0.0769
194		---	---	ND	---	0.0384
195		---	---	ND	---	0.0384
196		---	---	ND	---	0.0384
197	197/200	---	---	ND	---	0.0769
198	198/199	---	---	ND	---	0.0769
199	198/199	---	---	ND	---	0.0769
200	197/200	---	---	ND	---	0.0769
201		---	---	ND	---	0.0384
202		---	---	ND	---	0.0384
203		---	---	ND	---	0.0384
204		---	---	ND	---	0.0384
205		---	---	ND	---	0.0384
206		---	---	ND	---	0.0384
207		---	---	ND	---	0.0384
208		---	---	ND	---	0.0384
209		---	---	ND	---	0.0384

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

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Report No.....10654073



**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-OU1-202305
Lab Sample ID 40262368010
Filename P230529B_11

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	0.182
Total Trichloro Biphenyls	0.574
Total Tetrachloro Biphenyls	4.61
Total Pentachloro Biphenyls	8.68
Total Hexachloro Biphenyls	3.29
Total Heptachloro Biphenyls	0.323
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	17.7

ND = Not Detected

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-BKG2-202305	Matrix	Water
Lab Sample ID	40262368011	Dilution	NA
Filename	P230531B_08	Collected	05/16/2023 17:40
Injected By	CVS	Received	05/20/2023 18:45
Total Amount Extracted	1040 mL	Extracted	05/26/2023 11:40
% Moisture	NA	Analyzed	06/01/2023 04:43
Dry Weight Extracted	NA		
ICAL ID	P230531B02		
CCal Filename(s)	P230531B_01		
Method Blank ID	BLANK-106448		

PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.114	3.20	2.0	1.09	55
13C-4-MoCB	3	12.941	3.14	2.0	1.35	67
13C-2,2'-DiCB	4	13.246	1.53	2.0	1.33	66
13C-4,4'-DiCB	15	20.359	1.57	2.0	1.53	76
13C-2,2',6-TrCB	19	17.087	1.02	2.0	1.43	72
13C-3,4,4'-TrCB	37	28.175	1.09	2.0	1.39	70
13C-2,2',6,6'-TeCB	54	20.719	0.79	2.0	1.13	57
13C-3,4,4',5-TeCB	81	35.328	0.81	2.0	1.44	72
13C-3,3',4,4'-TeCB	77	35.900	0.78	2.0	1.39	70
13C-2,2',4,6,6'-PeCB	104	26.860	1.55	2.0	1.31	66
13C-2,3,3',4,4'-PeCB	105	39.517	1.61	2.0	1.39	70
13C-2,3,4,4',5-PeCB	114	38.880	1.58	2.0	1.37	68
13C-2,3',4,4',5-PeCB	118	38.327	1.60	2.0	1.35	68
13C-2,3',4,4',5'-PeCB	123	37.975	1.56	2.0	1.38	69
13C-3,3',4,4',5-PeCB	126	42.686	1.56	2.0	1.29	64
13C-2,2',4,4',6,6'-HxCB	155	32.945	1.24	2.0	1.33	66
13C-HxCB (156/157)	156/157	45.777	1.27	4.0	2.57	64
13C-2,3',4,4',5,5'-HxCB	167	44.603	1.28	2.0	1.34	67
13C-3,3',4,4',5,5'-HxCB	169	49.063	1.25	2.0	1.21	61
13C-2,2',3,4',5,6,6'-HpCB	188	38.863	1.04	2.0	1.46	73
13C-2,3,3',4,4',5,5'-HpCB	189	51.626	1.05	2.0	1.52	76
13C-2,2',3,3',5,5',6,6'-OxCB	202	44.351	0.89	2.0	1.41	71
13C-2,3,3',4,4',5,5',6-OxCB	205	54.234	0.91	2.0	1.33	67
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.001	0.80	2.0	1.25	62
13C-2,2',3,3',4,4',5,5',6,6'-NoCB	208	51.152	0.79	2.0	1.38	69
13C-DeCB	209	57.639	0.70	2.0	1.20	60
Cleanup Standards						
13C-2,4,4'-TrCB	28	23.797	1.04	2.0	1.22	61
13C-2,3,3',5,5'-PeCB	111	35.946	1.57	2.0	1.08	54
13C-2,2',3,3',5,5',6-HpCB	178	41.982	1.04	2.0	1.04	52
Recovery Standards						
13C-2,5-DiCB	9	15.728	1.56	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.808	0.80	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.146	1.58	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.529	1.25	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OxCB	194	53.759	0.91	2.0	NA	NA

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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Report No.....10654073



Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-BKG2-202305
Lab Sample ID 40262368011
Filename P230531B_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.0383
2		---	---	ND	---	0.0383
3		---	---	ND	---	0.0383
4		---	---	ND	---	0.0383
5		---	---	ND	---	0.0383
6		---	---	ND	---	0.0383
7		---	---	ND	---	0.0383
8		---	---	ND	---	0.0383
9		---	---	ND	---	0.0383
10		---	---	ND	---	0.0383
11		---	---	ND	---	0.376
12	12/13	---	---	ND	---	0.0767
13	12/13	---	---	ND	---	0.0767
14		---	---	ND	---	0.0383
15		---	---	ND	---	0.0506
16		---	---	ND	---	0.0383
17		---	---	ND	---	0.0383
18	18/30	---	---	ND	---	0.0767
19		---	---	ND	---	0.0383
20	20/28	---	---	ND	---	0.198
21	21/33	---	---	ND	---	0.207
22		---	---	ND	---	0.146
23		---	---	ND	---	0.0383
24		---	---	ND	---	0.0383
25		---	---	ND	---	0.0383
26	26/29	---	---	ND	---	0.0767
27		---	---	ND	---	0.0383
28	20/28	---	---	ND	---	0.198
29	26/29	---	---	ND	---	0.0767
30	18/30	---	---	ND	---	0.0767
31		---	---	ND	---	0.199
32		---	---	ND	---	0.0383
33	21/33	---	---	ND	---	0.207
34		---	---	ND	---	0.0383
35		---	---	ND	---	0.0383
36		---	---	ND	---	0.0383
37		---	---	ND	---	0.0813
38		---	---	ND	---	0.0383
39		---	---	ND	---	0.0383
40	40/41/71	---	---	ND	---	0.115
41	40/41/71	---	---	ND	---	0.115
42		---	---	ND	---	0.0383
43	43/73	---	---	ND	---	0.0767
44	44/47/65	---	---	ND	---	0.115
45	45/51	---	---	ND	---	0.0767
46		---	---	ND	---	0.0383
47	44/47/65	---	---	ND	---	0.115
48		---	---	ND	---	0.0383

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

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Report No.....10654073



**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-BKG2-202305
Lab Sample ID 40262368011
Filename P230531B_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
49	49/69	---	---	ND	---	0.0767
50	50/53	---	---	ND	---	0.0767
51	45/51	---	---	ND	---	0.0767
52		---	---	ND	---	0.198
53	50/53	---	---	ND	---	0.0767
54		---	---	ND	---	0.0383
55		---	---	ND	---	0.0383
56		---	---	ND	---	0.0383
57		---	---	ND	---	0.0383
58		---	---	ND	---	0.0383
59	59/62/75	---	---	ND	---	0.115
60		---	---	ND	---	0.0383
61	61/70/74/76	---	---	ND	---	0.153
62	59/62/75	---	---	ND	---	0.115
63		---	---	ND	---	0.0383
64		---	---	ND	---	0.0383
65	44/47/65	---	---	ND	---	0.115
66		---	---	ND	---	0.0905
67		---	---	ND	---	0.0383
68		---	---	ND	---	0.0383
69	49/69	---	---	ND	---	0.0767
70	61/70/74/76	---	---	ND	---	0.153
71	40/41/71	---	---	ND	---	0.115
72		---	---	ND	---	0.0383
73	43/73	---	---	ND	---	0.0767
74	61/70/74/76	---	---	ND	---	0.153
75	59/62/75	---	---	ND	---	0.115
76	61/70/74/76	---	---	ND	---	0.153
77		---	---	ND	---	0.0383
78		---	---	ND	---	0.0383
79		---	---	ND	---	0.0383
80		---	---	ND	---	0.0383
81		---	---	ND	---	0.0383
82		---	---	ND	---	0.0383
83		---	---	ND	---	0.0383
84		---	---	ND	---	0.0383
85	85/116/117	---	---	ND	---	0.115
86	86/87/97/108/119/125	---	---	ND	---	0.230
87	86/87/97/108/119/125	---	---	ND	---	0.230
88	88/91	---	---	ND	---	0.0767
89		---	---	ND	---	0.0383
90	90/101/113	---	---	ND	---	0.115
91	88/91	---	---	ND	---	0.0767
92		---	---	ND	---	0.0383
93	93/98/100/102	---	---	ND	---	0.153
94		---	---	ND	---	0.0383
95		---	---	ND	---	0.107
96		---	---	ND	---	0.0383

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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Report No.....10654073



Method 1668C Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-BKG2-202305
Lab Sample ID 40262368011
Filename P230531B_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
97	86/87/97/108/119/125	---	---	ND	---	0.230
98	93/98/100/102	---	---	ND	---	0.153
99		---	---	ND	---	0.0383
100	93/98/100/102	---	---	ND	---	0.153
101	90/101/113	---	---	ND	---	0.115
102	93/98/100/102	---	---	ND	---	0.153
103		---	---	ND	---	0.0383
104		---	---	ND	---	0.0383
105		---	---	ND	---	0.0383
106		---	---	ND	---	0.0383
107	107/124	---	---	ND	---	0.0767
108	86/87/97/108/119/125	---	---	ND	---	0.230
109		---	---	ND	---	0.0383
110	110/115	---	---	ND	---	0.0767
111		---	---	ND	---	0.0383
112		---	---	ND	---	0.0383
113	90/101/113	---	---	ND	---	0.115
114		---	---	ND	---	0.0383
115	110/115	---	---	ND	---	0.0767
116	85/116/117	---	---	ND	---	0.115
117	85/116/117	---	---	ND	---	0.115
118		---	---	ND	---	0.0598
119	86/87/97/108/119/125	---	---	ND	---	0.230
120		---	---	ND	---	0.0383
121		---	---	ND	---	0.0383
122		---	---	ND	---	0.0383
123		---	---	ND	---	0.0383
124	107/124	---	---	ND	---	0.0767
125	86/87/97/108/119/125	---	---	ND	---	0.230
126		---	---	ND	---	0.0383
127		---	---	ND	---	0.0383
128	128/166	---	---	ND	---	0.0767
129	129/138/163	---	---	ND	---	0.115
130		---	---	ND	---	0.0383
131		---	---	ND	---	0.0383
132		---	---	ND	---	0.0383
133		---	---	ND	---	0.0383
134	134/143	---	---	ND	---	0.0767
135	135/151	---	---	ND	---	0.0767
136		---	---	ND	---	0.0383
137		---	---	ND	---	0.0383
138	129/138/163	---	---	ND	---	0.115
139	139/140	---	---	ND	---	0.0767
140	139/140	---	---	ND	---	0.0767
141		---	---	ND	---	0.0383
142		---	---	ND	---	0.0383
143	134/143	---	---	ND	---	0.0767
144		---	---	ND	---	0.0383

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

Report No.....10654073

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-BKG2-202305
Lab Sample ID 40262368011
Filename P230531B_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
145		---	---	ND	---	0.0383
146		---	---	ND	---	0.0383
147	147/149	---	---	ND	---	0.0767
148		---	---	ND	---	0.0383
149	147/149	---	---	ND	---	0.0767
150		---	---	ND	---	0.0383
151	135/151	---	---	ND	---	0.0767
152		---	---	ND	---	0.0383
153	153/168	---	---	ND	---	0.0767
154		---	---	ND	---	0.0383
155		---	---	ND	---	0.0383
156	156/157	---	---	ND	---	0.0767
157	156/157	---	---	ND	---	0.0767
158		---	---	ND	---	0.0383
159		---	---	ND	---	0.0383
160		---	---	ND	---	0.0383
161		---	---	ND	---	0.0383
162		---	---	ND	---	0.0383
163	129/138/163	---	---	ND	---	0.115
164		---	---	ND	---	0.0383
165		---	---	ND	---	0.0383
166	128/166	---	---	ND	---	0.0767
167		---	---	ND	---	0.0383
168	153/168	---	---	ND	---	0.0767
169		---	---	ND	---	0.0383
170		---	---	ND	---	0.0383
171	171/173	---	---	ND	---	0.0767
172		---	---	ND	---	0.0383
173	171/173	---	---	ND	---	0.0767
174		---	---	ND	---	0.0383
175		---	---	ND	---	0.0383
176		---	---	ND	---	0.0383
177		---	---	ND	---	0.0383
178		---	---	ND	---	0.0383
179		---	---	ND	---	0.0383
180	180/193	---	---	ND	---	0.0767
181		---	---	ND	---	0.0383
182		---	---	ND	---	0.0383
183	183/185	---	---	ND	---	0.0767
184		---	---	ND	---	0.0383
185	183/185	---	---	ND	---	0.0767
186		---	---	ND	---	0.0383
187		---	---	ND	---	0.0383
188		---	---	ND	---	0.0383
189		---	---	ND	---	0.0383
190		---	---	ND	---	0.0383
191		---	---	ND	---	0.0383
192		---	---	ND	---	0.0383

Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
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RT = Retention Time
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ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

Report No.....10654073

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Method 1668C Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-BKG2-202305
Lab Sample ID 40262368011
Filename P230531B_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
193	180/193	---	---	ND	---	0.0767
194		---	---	ND	---	0.0383
195		---	---	ND	---	0.0383
196		---	---	ND	---	0.0383
197	197/200	---	---	ND	---	0.0767
198	198/199	---	---	ND	---	0.0767
199	198/199	---	---	ND	---	0.0767
200	197/200	---	---	ND	---	0.0767
201		---	---	ND	---	0.0383
202		---	---	ND	---	0.0383
203		---	---	ND	---	0.0383
204		---	---	ND	---	0.0383
205		---	---	ND	---	0.0383
206		---	---	ND	---	0.0383
207		---	---	ND	---	0.0383
208		---	---	ND	---	0.0383
209		---	---	ND	---	0.0383

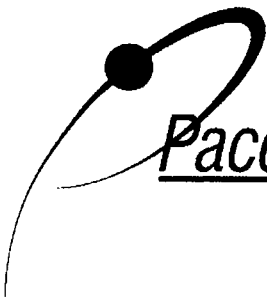
Conc = Concentration
EML = Method Specified Reporting Limit (1668C)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668C control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
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ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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Report No.....10654073



**Method 1668C Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-BKG2-202305
Lab Sample ID 40262368011
Filename P230531B_08

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	ND

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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Report No.....10654073

June 06, 2023

Ben Wachholz
TRC Madison
708 Heartland Trail
Suite 3000
Madison, WI 53717

RE: Project: TASK 9300 HARP 471202 PHASE100
Pace Project No.: 40262368

Dear Ben Wachholz:

Enclosed are the analytical results for sample(s) received by the laboratory on May 18, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Tod Noltemeyer
tod.noltemeyer@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Maddie Holicky, TRC
Peggy Popp, TRC - Madison



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: TASK 9300 HARP 471202 PHASE100

Pace Project No.: 40262368

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-21-8

Virginia VELAP Certification ID: 11873

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-21-00008

Federal Fish & Wildlife Permit #: 51774A

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: TASK 9300 HARP 471202 PHASE100

Pace Project No.: 40262368

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40262368001	NR-SW-DS2-202305	Water	05/16/23 11:15	05/18/23 09:25
40262368002	NR-SW-DUP1-202305	Water	05/16/23 00:00	05/18/23 09:25
40262368003	NR-SW-EB-202305	Water	05/16/23 11:30	05/18/23 09:25
40262368004	NR-SW-FB-202305	Water	05/16/23 11:45	05/18/23 09:25
40262368005	NR-SW-DS1-202305	Water	05/16/23 12:45	05/18/23 09:25
40262368006	NR-SW-OU4-202305	Water	05/16/23 13:15	05/18/23 09:25
40262368007	NR-SW-BKG1-202305	Water	05/16/23 14:10	05/18/23 09:25
40262368008	NR-SW-OU3-202305	Water	05/16/23 15:10	05/18/23 09:25
40262368009	NR-SW-OU2-202305	Water	05/16/23 16:15	05/18/23 09:25
40262368010	NR-SW-OU1-202305	Water	05/16/23 17:00	05/18/23 09:25
40262368011	NR-SW-BKG2-202305	Water	05/16/23 17:40	05/18/23 09:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: TASK 9300 HARP 471202 PHASE100
Pace Project No.: 40262368

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40262368001	NR-SW-DS2-202305	SM 2540D	HNT	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40262368002	NR-SW-DUP1-202305	SM 2540D	HNT	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40262368005	NR-SW-DS1-202305	SM 2540D	HNT	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40262368006	NR-SW-OU4-202305	SM 2540D	HNT	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40262368007	NR-SW-BKG1-202305	SM 2540D	HNT	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40262368008	NR-SW-OU3-202305	SM 2540D	HNT	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40262368009	NR-SW-OU2-202305	SM 2540D	HNT	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40262368010	NR-SW-OU1-202305	SM 2540D	HNT	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40262368011	NR-SW-BKG2-202305	SM 2540D	HNT	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
		SM 5310C	TJJ	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TASK 9300 HARP 471202 PHASE100

Pace Project No.: 40262368

Method: SM 2540D

Description: 2540D Total Suspended Solids

Client: TRC - MADISON

Date: June 06, 2023

General Information:

9 samples were analyzed for SM 2540D by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TASK 9300 HARP 471202 PHASE100

Pace Project No.: 40262368

Method: SM 5310C

Description: 5310C TOC

Client: TRC - MADISON

Date: June 06, 2023

General Information:

9 samples were analyzed for SM 5310C by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TASK 9300 HARP 471202 PHASE100

Pace Project No.: 40262368

Method: SM 5310C

Description: 5310C Dissolved Organic Carbon

Client: TRC - MADISON

Date: June 06, 2023

General Information:

9 samples were analyzed for SM 5310C by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TASK 9300 HARP 471202 PHASE100

Pace Project No.: 40262368

Sample: NR-SW-DS2-202305 **Lab ID: 40262368001** Collected: 05/16/23 11:15 Received: 05/18/23 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids									
Analytical Method: SM 2540D Pace Analytical Services - Green Bay									
Total Suspended Solids	71.4	mg/L	2.9	1.4	1		05/23/23 15:07		
5310C TOC									
Analytical Method: SM 5310C Pace Analytical Services - Green Bay									
Total Organic Carbon	9.4	mg/L	0.50	0.14	1		05/31/23 06:21	7440-44-0	
5310C Dissolved Organic Carbon									
Analytical Method: SM 5310C Pace Analytical Services - Green Bay									
Dissolved Organic Carbon	10.1	mg/L	0.50	0.14	1		06/01/23 07:54		D9

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TASK 9300 HARP 471202 PHASE100

Pace Project No.: 40262368

Sample: NR-SW-DUP1-202305 **Lab ID: 40262368002** Collected: 05/16/23 00:00 Received: 05/18/23 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids	Analytical Method: SM 2540D Pace Analytical Services - Green Bay								
Total Suspended Solids	57.4	mg/L	2.9	1.4	1		05/23/23 15:07		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	9.6	mg/L	0.50	0.14	1		05/31/23 06:39	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Dissolved Organic Carbon	10.6	mg/L	0.50	0.14	1		06/01/23 08:11		D9

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ANALYTICAL RESULTS

Project: TASK 9300 HARP 471202 PHASE100

Pace Project No.: 40262368

Sample: NR-SW-DS1-202305 **Lab ID: 40262368005** Collected: 05/16/23 12:45 Received: 05/18/23 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids	Analytical Method: SM 2540D Pace Analytical Services - Green Bay								
Total Suspended Solids	20.2	mg/L	1.2	0.59	1		05/23/23 15:07		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	9.3	mg/L	0.50	0.14	1		05/31/23 06:57	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Dissolved Organic Carbon	10.2	mg/L	0.50	0.14	1		06/01/23 08:26		D9

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ANALYTICAL RESULTS

Project: TASK 9300 HARP 471202 PHASE100

Pace Project No.: 40262368

Sample: NR-SW-OU4-202305 **Lab ID: 40262368006** Collected: 05/16/23 13:15 Received: 05/18/23 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids	Analytical Method: SM 2540D Pace Analytical Services - Green Bay								
Total Suspended Solids	14.5	mg/L	1.5	0.73	1		05/23/23 15:08		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	10.4	mg/L	0.50	0.14	1		05/31/23 07:48	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Dissolved Organic Carbon	11.3	mg/L	0.50	0.14	1		06/01/23 08:43		D9

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ANALYTICAL RESULTS

Project: TASK 9300 HARP 471202 PHASE100

Pace Project No.: 40262368

Sample: NR-SW-BKG1-202305 **Lab ID: 40262368007** Collected: 05/16/23 14:10 Received: 05/18/23 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids	Analytical Method: SM 2540D Pace Analytical Services - Green Bay								
Total Suspended Solids	9.6	mg/L	1.1	0.51	1		05/23/23 15:08		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	10.5	mg/L	0.50	0.14	1		05/30/23 15:36	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Dissolved Organic Carbon	10.8	mg/L	0.50	0.14	1		06/01/23 08:59		D9

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TASK 9300 HARP 471202 PHASE100

Pace Project No.: 40262368

Sample: NR-SW-OU3-202305 **Lab ID: 40262368008** Collected: 05/16/23 15:10 Received: 05/18/23 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids	Analytical Method: SM 2540D Pace Analytical Services - Green Bay								
Total Suspended Solids	12.2	mg/L	1.0	0.49	1		05/23/23 15:08		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	5.6	mg/L	0.50	0.14	1		05/31/23 08:40	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Dissolved Organic Carbon	6.3	mg/L	0.50	0.14	1		06/01/23 09:17		D9

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TASK 9300 HARP 471202 PHASE100

Pace Project No.: 40262368

Sample: NR-SW-OU2-202305 **Lab ID: 40262368009** Collected: 05/16/23 16:15 Received: 05/18/23 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids	Analytical Method: SM 2540D Pace Analytical Services - Green Bay								
Total Suspended Solids	7.9	mg/L	1.1	0.50	1		05/23/23 15:08		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	5.0	mg/L	0.50	0.14	1		05/30/23 16:10	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Dissolved Organic Carbon	5.9	mg/L	0.50	0.14	1		06/01/23 09:32		D9

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TASK 9300 HARP 471202 PHASE100

Pace Project No.: 40262368

Sample: NR-SW-OU1-202305 **Lab ID: 40262368010** Collected: 05/16/23 17:00 Received: 05/18/23 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids	Analytical Method: SM 2540D Pace Analytical Services - Green Bay								
Total Suspended Solids	4.9	mg/L	1.1	0.50	1		05/23/23 15:08		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	4.5	mg/L	0.50	0.14	1		05/31/23 08:56	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Dissolved Organic Carbon	5.3	mg/L	0.50	0.14	1		06/01/23 09:49		D9

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TASK 9300 HARP 471202 PHASE100

Pace Project No.: 40262368

Sample: NR-SW-BKG2-202305 **Lab ID: 40262368011** Collected: 05/16/23 17:40 Received: 05/18/23 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids	Analytical Method: SM 2540D Pace Analytical Services - Green Bay								
Total Suspended Solids	3.1	mg/L	1.1	0.51	1		05/23/23 15:08		
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	7.0	mg/L	0.50	0.14	1		05/31/23 09:34	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Dissolved Organic Carbon	8.0	mg/L	0.50	0.14	1		06/01/23 10:06		D9

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TASK 9300 HARP 471202 PHASE100
Pace Project No.: 40262368

QC Batch:	445571	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40262368001, 40262368002, 40262368005, 40262368006, 40262368007, 40262368008, 40262368009, 40262368010, 40262368011

METHOD BLANK: 2558006 Matrix: Water
Associated Lab Samples: 40262368001, 40262368002, 40262368005, 40262368006, 40262368007, 40262368008, 40262368009, 40262368010, 40262368011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	<0.48	1.0	05/23/23 15:05	

LABORATORY CONTROL SAMPLE: 2558007

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	98.0	98	80-120	

SAMPLE DUPLICATE: 2558008

Parameter	Units	40262362001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	325	345	6	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TASK 9300 HARP 471202 PHASE100
Pace Project No.: 40262368

QC Batch: 446007 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40262368001

METHOD BLANK: 2560738 Matrix: Water
Associated Lab Samples: 40262368001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.14	0.50	05/30/23 06:04	

LABORATORY CONTROL SAMPLE: 2560739

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	12.5	12.8	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2560740 2560741

Parameter	Units	40262314009		2560740		2560741		% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					MSD % Rec
Total Organic Carbon	mg/L	63.8J	900	900	907	878	94	90	80-120	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2560742 2560743

Parameter	Units	40262315002		2560742		2560743		% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					MSD % Rec
Total Organic Carbon	mg/L	0.90	6	6	6.7	6.7	97	97	80-120	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TASK 9300 HARP 471202 PHASE100
Pace Project No.: 40262368

QC Batch:	446008	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Total Organic Carbon
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40262368002, 40262368005, 40262368006, 40262368007, 40262368008, 40262368009, 40262368010, 40262368011

METHOD BLANK: 2560744 Matrix: Water
Associated Lab Samples: 40262368002, 40262368005, 40262368006, 40262368007, 40262368008, 40262368009, 40262368010, 40262368011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.14	0.50	05/30/23 12:43	

LABORATORY CONTROL SAMPLE: 2560745

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	12.5	12.8	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2560746 2560747

Parameter	Units	2560746		2560747		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40262368005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Total Organic Carbon	mg/L	9.3	6	6	15.4	15.6	101	105	80-120	2	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2560748 2560749

Parameter	Units	2560748		2560749		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40262368006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Total Organic Carbon	mg/L	10.4	6	6	17.0	16.9	109	109	80-120	0	10		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TASK 9300 HARP 471202 PHASE100
Pace Project No.: 40262368

QC Batch:	446134	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40262368001, 40262368002, 40262368005, 40262368006, 40262368007, 40262368008, 40262368009, 40262368010, 40262368011

METHOD BLANK: 2561121 Matrix: Water
Associated Lab Samples: 40262368001, 40262368002, 40262368005, 40262368006, 40262368007, 40262368008, 40262368009, 40262368010, 40262368011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<0.14	0.50	06/01/23 04:51	

LABORATORY CONTROL SAMPLE: 2561122

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	12.5	13.4	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2561123 2561124

Parameter	Units	40262675001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	0.78J	18	18	18.1	17.8	96	95	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2561125 2561126

Parameter	Units	40262675002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	0.69	6	6	6.5	6.6	97	98	80-120	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: TASK 9300 HARP 471202 PHASE100

Pace Project No.: 40262368

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

DL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D9 Dissolved result is greater than the total. Data is within laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TASK 9300 HARP 471202 PHASE100

Pace Project No.: 40262368

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40262368001	NR-SW-DS2-202305	SM 2540D	445571		
40262368002	NR-SW-DUP1-202305	SM 2540D	445571		
40262368005	NR-SW-DS1-202305	SM 2540D	445571		
40262368006	NR-SW-OU4-202305	SM 2540D	445571		
40262368007	NR-SW-BKG1-202305	SM 2540D	445571		
40262368008	NR-SW-OU3-202305	SM 2540D	445571		
40262368009	NR-SW-OU2-202305	SM 2540D	445571		
40262368010	NR-SW-OU1-202305	SM 2540D	445571		
40262368011	NR-SW-BKG2-202305	SM 2540D	445571		
40262368001	NR-SW-DS2-202305	SM 5310C	446007		
40262368002	NR-SW-DUP1-202305	SM 5310C	446008		
40262368005	NR-SW-DS1-202305	SM 5310C	446008		
40262368006	NR-SW-OU4-202305	SM 5310C	446008		
40262368007	NR-SW-BKG1-202305	SM 5310C	446008		
40262368008	NR-SW-OU3-202305	SM 5310C	446008		
40262368009	NR-SW-OU2-202305	SM 5310C	446008		
40262368010	NR-SW-OU1-202305	SM 5310C	446008		
40262368011	NR-SW-BKG2-202305	SM 5310C	446008		
40262368001	NR-SW-DS2-202305	SM 5310C	446134		
40262368002	NR-SW-DUP1-202305	SM 5310C	446134		
40262368005	NR-SW-DS1-202305	SM 5310C	446134		
40262368006	NR-SW-OU4-202305	SM 5310C	446134		
40262368007	NR-SW-BKG1-202305	SM 5310C	446134		
40262368008	NR-SW-OU3-202305	SM 5310C	446134		
40262368009	NR-SW-OU2-202305	SM 5310C	446134		
40262368010	NR-SW-OU1-202305	SM 5310C	446134		
40262368011	NR-SW-BKG2-202305	SM 5310C	446134		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **TRC** Billing Information: **in PO**

Address: **999 Fourier Drive, Suite 101 Madison, WI 53717**

Report To: **Ben Wachholz** Email To: **bwachholz@trccompanies.com**

Copy To: **Chris Harvey** Site Collection Info/Address: **Chilton, WI**

Customer Project Name/Number: **HARP 471202 Phase 100 2300** State: **WI** County/City: **Calumet** Time Zone Collected: **[] PT [] MT [] CT [] ET**

Phone: **608-354-3923** Site/Facility ID #: **Task 200601** Compliance Monitoring? **[] Yes [] No**

Email: **charvey@trccompanies.com** Collected By (print): **Ben Wachholz** Purchase Order #: **200601** DW PWS ID #: **Quote #:**

Collected By (signature): **Ben Wachholz** Turnaround Date Required: **Standard** Immediately Packed on Ice: **[X] Yes [] No**

Sample Disposal: **[] Dispose as appropriate [] Return [] Archive: [] 2 Day [] 3 Day [] 4 Day [] 5 Day [] Hold.** Rush: **[] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day** Field Filtered (if applicable): **[X] Yes [] No** Analysis: **dissolved organic carbon**

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	PCB congeners (EPA 166B) ^{sewing}	TSS (total suspended solids)	TOC (total organic carbon)	DOC (dissolved organic carbon)							
			Date	Time	Date	Time													
NR-SW-DS2-202305	W	G	5/16/23	11:15				5	X	X	X	X							001
NR-SW-DUPI-202305	W	G	5/16/23	-				5	X	X	X	X							002
NR-SW-EB-202305	W	G	5/16/23	11:30				2	X										003
NR-SW-FB-202305	W	G	5/16/23	11:45				2	X										004
NR-SW-DS1-202305	W	G	5/16/23	12:45				5	X	X	X	X							005
NR-SW-6U4-202305	W	G	5/16/23	13:15				5	X	X	X	X							006
NR-SW-BK61-202305	W	G	5/16/23	14:10				5	X	X	X	X							007
NR-SW-OU3-202305	W	G	5/16/23	15:10				5	X	X	X	X							008
NR-SW-OU2-202305	W	G	5/16/23	16:15				5	X	X	X	X							009
NR-SW-OU1-202305	W	G	5/16/23	17:00				5	X	X	X	X							010

Customer Remarks / Special Conditions / Possible Hazards: **PCB congeners analyzed by Minneapolis and other analyses performed by Green Bay**

Type of Ice Used: **Wet Blue Dry None** SHORT HOLDS PRESENT (<72 hours): **Y N N/A**

Packing Material Used: **Blue** Lab Tracking #: **2896883**

Radchem sample(s) screened (<500 ppm): **Y N NA** Samples received via: **FEDEX UPS Client Courier Pace Courier**

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

40262368

ALL SHADED AREAS are for LAB USE ONLY

Container Preservative Type ** **U U 2 2** Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses: **PCB congeners (EPA 166B) ^{sewing}**
TSS (total suspended solids)
TOC (total organic carbon)
DOC (dissolved organic carbon)

Lab Profile/Line: **Lab Sample Receipt Checklist:**

- Custody Seals Present **AS 22** Y N NA
- Custody Signatures Present **SC 01** Y N NA
- Collector Signature Present **R.A.** Y N NA
- Bottles Intact Y N NA
- Correct Bottles Y N NA
- Sufficient Volume Y N NA
- Samples Received on Ice Y N NA
- VOA - Headspace Acceptable Y N NA
- USDA Regulated Soils Y N NA
- Samples in Holding Time Y N NA
- Residual Chlorine Present Y N NA
- Cl Strips: Y N NA
- Sample pH Acceptable Y N NA
- pH Strips: Y N NA
- Sulfide Present Y N NA
- Lead Acetate Strips: Y N NA

LAB USE ONLY: Lab Sample # / Comments:

Lab Sample Temperature Info:

Temp Blank Received: **Y N NA**

Therm ID#: **01**

Cooler 1 Temp Upon Receipt: **0** °C

Cooler 1 Therm Corr. Factor: **0** °C

Cooler 1 Corrected Temp: **0** °C

Comments: **01**

Trip Blank Received: **Y N NA**

HCL MeOH TSP Other

Non Conformance(s): **Page 23 of 226**

YES / NO of: **01**

Relinquished by/Company (Signature): **Ben Wachholz (TRC)** Date/Time: **5/17/23 18:30** Received by/Company (Signature): **Robert Pace** Date/Time: **5-18-23 0925**

Relinquished by/Company (Signature): **Fedex** Date/Time: **5-18-23 0925** Received by/Company (Signature): **Robert Pace** Date/Time: **5-18-23 0925**

Relinquished by/Company (Signature): Date/Time: Received by/Company (Signature): Date/Time:

MTJL LAB USE ONLY

Table #: **01**

Acctnum: **01**

Template: **01**

Prelogin: **01**

PM: **01**

PB: **01**

CHAIN-OF-CUSTODY Analytical Request Document

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

40262368

ALL SHADED AREAS are for LAB USE ONLY

Company: **TRC**

Address: **999 Fowles Drive, Suite 101 Madison, WI 53717** *in PO*

Report To: **Ben Wachholz** Email To: **bwachholz@trccompanies.com**

Copy To: **Chris Harvey** Site Collection Info/Address: **Chilton, WI**

Customer Project Name/Number: **HARP 471202 Phase 100 Task 9300** State: **WI** County/City: **Calumet** Time Zone Collected: [] PT [] MT [] CT [] ET

Phone: **608-354-3923** Site/Facility ID #: _____ Compliance Monitoring? [] Yes [] No

Email: **charvey@trccompanies.com**

Collected By (print): **Ben Wachholz** Purchase Order #: **200601** DW PWS ID #: _____ DW Location Code: _____

Collected By (signature): *[Signature]* Turnaround Date Required: **standard** Immediately Packed on Ice: [X] Yes [] No

Sample Disposal: [] Dispose as appropriate [] Return [] Archive: _____ [] Hold: _____ Rush: [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [X] Yes [] No

Analysis: **dissolved organic carbon**

Container Preservative Type **: **UU22**

Lab Project Manager: _____

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses	Lab Profile/Line:
PCB Congeners TSS TOC DOC	Lab Sample Receipt Checklist: Custody Seals Present/Intact Y N NA Custody Signatures Present Y N NA Collector Signature Present Y N NA Bottles Intact Y N NA Correct Bottles Y N NA Sufficient Volume Y N NA Samples Received on Ice Y N NA VOA - Headspace Acceptable Y N NA USDA Regulated Soils Y N NA Samples in Holding Time Y N NA Residual Chlorine Present Y N NA Cl Strips: _____ Sample pH Acceptable Y N NA pH Strips: _____ Sulfide Present Y N NA Lead Acetate Strips: _____
	LAB USE ONLY: Lab Sample # / Comments: 011

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
NR-SW-BK62-202805	W	G	5/16/23	17:40				5

Customer Remarks / Special Conditions / Possible Hazards: **PCB congeners analyzed by Minneapolis and other analyses performed by Green Bay**

Type of Ice Used: **Wet** Blue Dry None

Packing Material Used: **D**

Radchem sample(s) screened (<500 cpm): **Y N NA**

SHORT HOLDS PRESENT (<72 hours): **Y N N/A**

Lab Tracking #: **2896882**

Samples received via: **FEDEX UPS Client Courier Pace Courier**

Lab Sample Temperature Info:
Temp Blank Received: **Y N NA**
Therm ID#: _____
Cooler 1 Temp Upon Receipt: **1** °C
Cooler 1 Therm Corr. Factor: _____ °C
Cooler 1 Corrected Temp: _____ °C
Comments:

Relinquished by/Company: (Signature) **Ben Wachholz (TRC)** Date/Time: **5/17/23 18:30** Received by/Company: (Signature) _____ Date/Time: _____

Relinquished by/Company: (Signature) **Fedex** Date/Time: **5-18-23 0925** Received by/Company: (Signature) **Roshini Pace** Date/Time: **5-18-23 0925**

Relinquished by/Company: (Signature) _____ Date/Time: _____ Received by/Company: (Signature) _____ Date/Time: _____

MTJL LAB USE ONLY

Table #: _____
Acctnum: _____
Template: _____
Prelogin: _____
PM: _____
PB: _____

Tri Blank Received: **Y N NA**
HCL MeOH TSP Other

Non Conformance(s): _____ Page 24 of 226
YES / NO of: _____

Effective Date: 8/16/2022

Client Name: TRC

Sample Preservation Receipt Form

Project # 40262368

All containers needing preservation have been checked and noted below

Yes No

Lab Lot# of pH paper: N/A
Lab Std #ID of preservation (if pH adjusted):

Initial when completed:

Date/Time:

Pace Lab #	Glass						Plastic						Vials					Jars				General		VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)																															
	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T								ZPLC	GN 1	GN 2																												
001	✓			✓			✓																												2.5 / 5																										
002	✓			✓																															2.5 / 5																										
003	✓			✓																															2.5 / 5																										
004	✓			✓																															2.5 / 5																										
005	✓			✓																															2.5 / 5																										
006	✓			✓																															2.5 / 5																										
007	✓			✓																															2.5 / 5																										
008	✓			✓																															2.5 / 5																										
009	✓			✓																															2.5 / 5																										
010	✓			✓																															2.5 / 5																										
011	✓			✓																															2.5 / 5																										
012	R.A 5-18-23																																																										2.5 / 5		
013																																																												2.5 / 5	
014																																																													2.5 / 5
015																																																													2.5 / 5
016																																																													2.5 / 5
017																																																													2.5 / 5
018																																																													2.5 / 5
019																																																													2.5 / 5
020																																																													2.5 / 5

Exceptions to preservation check VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) Yes No N/A *If yes look in headspace column

AG1U 1 liter amber glass	BP1U 1 liter plastic unpres	VG9C 40 mL clear ascorbic w/ HCl	JGFU 4 oz amber jar unpres
BG1U 1 liter clear glass	BP3U 250 mL plastic unpres	DG9T 40 mL amber Na Thio	JG9U 9 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP3B 250 mL plastic NaOH	VG9U 40 mL clear vial unpres	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9H 40 mL clear vial HCL	WPFU 4 oz plastic jar unpres
AG5U 100 mL amber glass unpres	BP3S 250 mL plastic H2SO4	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG2S 500 mL amber glass H2SO4	BP2Z 500 mL plastic NaOH + Zn	VG9D 40 mL clear vial DI	ZPLC ziploc bag
BG3U 250 mL clear glass unpres			GN 1
			GN 2

Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: TRC

WO#: **40262368**

Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____



Tracking #: 7721 7851 3973

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR - 127 Type of Ice: Wet Blue Dry None Meltwater Only

Cooler Temperature Uncorr: 2.0 /Corr. 2.0

Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Person examining contents:
 Date: 5-18-23 /Initials: RJA
 Labeled By Initials: ARY

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5.
- DI VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Correct Type: <u>Pace Green Bay</u> Pace IR, Non-Pace		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u> <u>RTH 6-12-23</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample log in

Report Prepared for:

Tod Noltemeyer
PACE Wisconsin
6409 Odana Road
Madison WI 53719

**REPORT OF
LABORATORY
ANALYSIS
FOR PCBs**

Report Information:

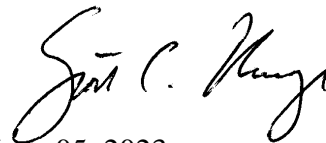
Pace Project #: 10654073
Sample Receipt Date: 05/20/2023
Client Project #: 40262368 TRC Madison
Client Sub PO #: N/A
State Cert #: 999407970

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCB Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Scott Unze, your Pace Project Manager.

This report has been reviewed by:



June 05, 2023

Scott Unze, Project Manager
(612) 607-6383
(612) 607-6444 (fax)
scott.unze@pacelabs.com



Report of Laboratory Analysis

This report should not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

The results relate only to the samples included in this report.

Report Prepared Date:

June 5, 2023



DISCUSSION

This report presents the results from the analyses performed on eleven samples submitted by a representative of Pace Analytical Services, Inc. The samples were analyzed for the presence or absence of selected polychlorinated biphenyl (PCB) congeners using USEPA Method 1668A. Reporting limits were set to 0.04-0.40 ppt and adjusted for the amount of sample extracted. Results based on the statistically derived MDLs were also included (Additional Results). For the MDL based data set, reporting limits determined based on the signal to noise ratio were flagged "A", with levels below the calibration range flagged "J" as estimated concentrations.

The isotopically-labeled PCB internal standards in the sample extracts were recovered within the target ranges specified in the method. Since the quantification of the native PCB congeners was based on internal standard and isotope dilution methodology, the data were automatically corrected for variation in recovery and accurate values were obtained. Incorrect isotope ratios were obtained for selected PCB congeners. The affected congeners were flagged "I" on the results tables. Any associated target analyte detections were provided under the estimated maximum possible concentration (EMPC) column on the results table.

A laboratory method blank was prepared and analyzed with each sample batch as part of our routine quality control procedures. The results show the blanks to be free of PCB congeners to the reporting limits. However, a trace signal at the retention time of congener 5 was present in the method blank associated with sample NR-SW-BKG2-202305. This congener was not detected in the sample extract. This indicates that the sample preparation procedures did not significantly impact the PCB content determined for the sample material.

Laboratory spike samples were also prepared with the sample batch using reference material that had been fortified with native standards. The results show that the spiked native compounds were recovered at 80-117%, with relative percent differences of 0.0-17.0%. These values were within method limits. Matrix spikes were not prepared with the sample batch.

REPORT OF LABORATORY ANALYSIS

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Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Missouri	10100
Alabama	40770	Montana	CERT0092
Alaska-DW	MN00064	Nebraska	NE-OS-18-06
Alaska-UST	17-009	Nevada	MN00064
Arizona	AZ0014	New Hampshire	2081
Arkansas - WW	88-0680	New Jersey	MN002
Arkansas-DW	MN00064	New York	11647
California	2929	North Carolina-	27700
Colorado	MN00064	North Carolina-	530
Connecticut	PH-0256	North Dakota	R-036
Florida	E87605	Ohio-DW	41244
Georgia	959	Ohio-VAP (170	CL101
Hawaii	MN00064	Ohio-VAP (180	CL110
Idaho	MN00064	Oklahoma	9507
Illinois	200011	Oregon-Primary	MN300001
Indiana	C-MN-01	Oregon-Second	MN200001
Iowa	368	Pennsylvania	68-00563
Kansas	E-10167	Puerto Rico	MN00064
Kentucky-DW	90062	South Carolina	74003
Kentucky-WW	90062	Tennessee	TN02818
Louisiana-DEQ	AI-84596	Texas	T104704192
Louisiana-DW	MN00064	Utah	MN00064
Maine	MN00064	Vermont	VT-027053137
Maryland	322	Virginia	460163
Michigan	9909	Washington	C486
Minnesota	027-053-137	West Virginia-D	382
Minnesota-Ag	via MN 027-053	West Virginia-D	9952C
Minnesota-Petr	1240	Wisconsin	999407970
Mississippi	MN00064	Wyoming-UST	via A2LA 2926.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Appendix A

Sample Management

REPORT OF LABORATORY ANALYSIS

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Internal Transfer Chain of Custody



Samples Pre-Logged into eCOC.

State Of Origin: WI
 Cert. Needed: Yes No

Workorder Name: TASK 9300 HARP 471202 PHASE100
 Owner Received Date: 5/18/2023
 Results Requested By: 6/9/2023



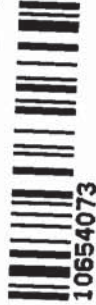
Report ID: 40262368

Subcontract ID

Tod Noltemeyer
 Pace Analytical Green Bay
 1241 Bellevue Street
 Suite 9
 Green Bay, WI 54302
 Phone (920)469-2436

Pace Analytical Minnesota
 1700 Elm Street SE
 Suite 200
 Minneapolis, MN 55414
 Phone (612)607-1700

WO#: 10654073



1668 PCB Congeners Full List

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers		LAB USE ONLY
						Unpreserved	Preserved	
1	NR-SW-DS2-202305	PS	5/16/2023 11:15	40262368001	Water	1		001
2	NR-SW-DUP1-202305	PS	5/16/2023 00:00	40262368002	Water	1		002
3	NR-SW-EB-202305	PS	5/16/2023 11:30	40262368003	Water	1		003
4	NR-SW-FB-202305	PS	5/16/2023 11:45	40262368004	Water	1		004
5	NR-SW-DS1-202305	PS	5/16/2023 12:45	40262368005	Water	1		005
6	NR-SW-OU4-202305	PS	5/16/2023 13:15	40262368006	Water	1		006
7	NR-SW-BKG1-202305	PS	5/16/2023 14:10	40262368007	Water	1		007
8	NR-SW-OU3-202305	PS	5/16/2023 15:10	40262368008	Water	1		008
9	NR-SW-OU2-202305	PS	5/16/2023 16:15	40262368009	Water	1		009
10	NR-SW-OU1-202305	PS	5/16/2023 17:00	40262368010	Water	1		010
11	NR-SW-BKG2-202305	PS	5/16/2023 17:40	40262368011	Water	1		011

Comments

Transfers	Released By	Date/Time	Received By	Date/Time
1	Matt Dombrowski	05/19/2023 16:00	[Signature]	5.20.23 9:45
2				
3				

Cooler Temperature on Receipt: 3 °C Custody Seal: Y N Received on Ice: Y N Samples Intact: Y N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

Effective Date: 4/14/2023

Sample Condition
Upon Receipt

Client Name: PAGE Green Bay

Project #: WO#: 10654073

Courier: FedEx UPS USPS Client
 Pace Speedee Commercial

Tracking Number: _____ See Exceptions ENV-FRM-MIN4-0142

PM: SCU **Due Date:** 06/12/23
CLIENT: PASI-WI

Custody Seal on Cooler/Box Present? Yes No **Seals Intact?** Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer: T1 (0461) T2 (0436) T3 (0459) T4 (0402) T5 (0178)
 T6 (0235) T7 (0042) T8 (0775) T9(0727) 01339252/1710

Biological Tissue Frozen? Yes No N/A

Temp Blank? Yes No

Type of Ice: Wet Blue Dry None
 Melted

Did Samples Originate in West Virginia? Yes No

Were All Container Temps Taken? Yes No N/A

Temp should be above freezing to 6 °C

Cooler temp Read w/Temp Blank: 3.7 °C

Average Corrected Temp (no temp blank only): _____ °C

Correction Factor: +0.2 **Cooler Temp Corrected w/temp blank:** 3.9 °C

See Exceptions ENV-FRM-MIN4-0142 1 Container

USDA Regulated Soil: N/A, water sample/other: _____

Date/Initials of Person Examining Contents: ED 5:20:23

Did samples originate in a quarantine zone within the United States: AL, AR, AZ CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

Location (Check one): <input type="checkbox"/> Duluth <input checked="" type="checkbox"/> Minneapolis <input type="checkbox"/> Virginia	COMMENTS
Chain of Custody Present and Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Sampler Name and/or Signature on COC? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	3.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4. If fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8 hr, <24 <input type="checkbox"/> No
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. <input type="checkbox"/> Fecal Coliform <input type="checkbox"/> HPC <input type="checkbox"/> Total Coliform/E.coli <input type="checkbox"/> BOD/cBOD <input type="checkbox"/> Hex Chrom <input type="checkbox"/> Turbidity <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Orthophos <input type="checkbox"/> Other _____
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Sufficient Sample Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Field Filtered Volume Received for Dissolved Tests? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10. Is sediment visible in the dissolved container? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is sufficient information available to reconcile the samples to the COC? Matrix: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other	11. If no, write ID/Date/Time of container below: 1 AC111 / sample <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO3, H2SO4, <2pH, NaOH >9 Sulfide, NaOH >10 Cyanide) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> NaOH <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxins/PFAS (*If adding preservative to a container, it must be added to associated field and equipment blanks--verify with PM first.) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Positive for Residual Chlorine? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142
Headspace in Methyl Mercury Container? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	pH Paper Lot #
Extra labels present on soil VOA or WIDRO containers? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Residual Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Headspace in VOA Vials (greater than 6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
3 Trip Blanks Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14. <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15. Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Eric Wang Date: 05/22/23

Field Data Required? Yes No

NOTE: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Cooler 1 of 3 Page 1 of 2
40262368

Chain-of-Custody Analytical Request Document
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: TRC
Address: 999 Fournier Drive, Suite 101 in PO
Report To: Ben Wacholz
Copy To: Chris Harvey
Customer Project Name/Number: Task
Phone: 608-354-3923
Site/Facility ID #: 100 9300
Email: chris@trc.com
Site Collection Info/Address: Chilton, WI
State: WI
County/City: Calumet
Time Zone Collected: CPT | MDT | CT | ET
Compliance Monitoring? [] Yes [] No
DW PWS ID #: 200601
DW Location Code: Immediately Packed on Ice: [X] Yes [] No
Turnaround Date Required: Standard
Rush: [] Same Day [] Next Day [] 1 Day [] 3 Day [] 4 Day [] 5 Day (Expedite Charges Apply)
Sample Disposal: [] Same Day [] Next Day [] 1 Day [] 3 Day [] 4 Day [] 5 Day (Expedite Charges Apply)
Analysis: dissolved organic carbon

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End	Res CI	# of Ctns
			Date	Time			
NR-SW-DS2-202305	W	G	5/16/23	11:15			5
NR-SW-DUPI-202305	W	G	5/16/23	-			5
NR-SW-EB-202305	W	G	5/16/23	11:30			2
NR-SW-FB-202305	W	G	5/16/23	11:45			2
NR-SW-DS1-202305	W	G	5/16/23	12:45			5
NR-SW-OU4-202305	W	G	5/16/23	13:15			5
NR-SW-BK61-202305	W	G	5/16/23	14:10			5
NR-SW-OU3-202305	W	G	5/16/23	15:10			5
NR-SW-OU2-202305	W	G	5/16/23	16:15			5
NR-SW-OU1-202305	W	G	5/16/23	17:00			5

Customer Remarks / Special Conditions / Possible Hazards:
 PCB congeners analyzed by Minneapolis and other analytes performed by Green Bay

Type Office Used: Wet [] Dry [] None []
Packing Material Used: []
Radchem sample(s) screened (<500 ppm): Y N NA
Received by/Company: (Signature) Ben Wacholz (TRC)
Date/Time: 5/17/23 18:30
Received by/Company: (Signature) Fedex
Date/Time: 5-18-23 09:15
Received by/Company: (Signature) Ben Wacholz
Date/Time: 5-18-23 09:15

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

Container Preservative Type **
 4 11 2 2
Lab Project Manager:

Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Lab Sample Receipt Checklist:
 Custody Seals Present Y N NA
 Custody Signatures Present Y N NA
 Collector Signatures Present Y N NA
 Bottles Intact Y N NA
 Correct Bottles Y N NA
 Sufficient Volume Y N NA
 Samples Received on Ice Y N NA
 VOA - Headspace Acceptable Y N NA
 USDA Regulated Soils Y N NA
 Samples in Holding Time Y N NA
 Residual Chlorine Present Y N NA
 Cl Strips: Y N NA
 Sample pH Acceptable Y N NA
 DR Strips: Y N NA
 Sulfide Present Y N NA
 Lead Acetate Strips: Y N NA
LAB USE ONLY:
 Lab Sample # / Comments:

Analyses	Y	N	NA
TSS (total suspended solids)	X		
TOC (total organic carbon)	X		
DOC (dissolved organic carbon)	X		
PCB Congeners (EPA 1661)	X		

Lab Sample Temperature Info:
 Temp Blank Received: Y N NA
 Therm ID#:
 Cooler 1 Temp Upon Receipt: °C
 Cooler 1 Therm Corr: Factor: °C
 Cooler 1 Corrected Temp: °C
 Comments:

Lab Tracking #: 2896883
SHORTR HOLDS PRESENT (<72 hours): Y N NA
Samples received via: FEDEX UPS Client Courier Pace Courier
Date/Time: 5-18-23 09:15
Date/Time: 5-18-23 09:15
Date/Time: 5-18-23 09:15

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: TRC

Address: 999 Farnies Drive, Suite 101
Madison, WI 53717
 Email To: ben.wacholz@trccompanies.com
 Site Collection Info/Address: Chilton, WI

Customer Project Name/Number: HARP 471202 Phase 100
 State: WI County/City: Calumet Time Zone Collected: ET
 Phone: 608-354-3123 Site/Facility ID #: 9300WI
 Email: chancey@trccompanies.com
 Collected By (Print): Ben Wacholz Purchase Order #: 200601
 Quote #: _____

Turnaround Date Required: standard
 Rush: Same Day Next Day
 1 Day 3 Day 4 Day 5 Day
 (Expedite Charges Apply)

Collected By (Signature): Ben Wacholz
 Sample Disposal: Dispose as appropriate Return
 Archive: _____
 Hold: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

ALL SHADED AREAS are for LAB USE ONLY

Container Preservative Type **	Analyses	Lab Profile/Line:
UU 22	TSS TOC DOC	Lab Sample Receipt Checklist: Custody Seals Present <input checked="" type="checkbox"/> Y N NA Custody Signatures Present <input checked="" type="checkbox"/> Y N NA Collector Signature Present <input checked="" type="checkbox"/> Y N NA Bottles Intact <input checked="" type="checkbox"/> Y N NA Correct Bottle <input checked="" type="checkbox"/> Y N NA Sufficient Volume <input checked="" type="checkbox"/> Y N NA Samples Received on Ice <input checked="" type="checkbox"/> Y N NA VOA - Headspace Acceptable <input checked="" type="checkbox"/> Y N NA USDA Regulated Soils <input checked="" type="checkbox"/> Y N NA Samples in Holding Time <input checked="" type="checkbox"/> Y N NA Residual Chlorine Present <input checked="" type="checkbox"/> Y N NA CI Strips: <input checked="" type="checkbox"/> Y N NA Sample pH Acceptable <input checked="" type="checkbox"/> Y N NA pH Strips: <input checked="" type="checkbox"/> Y N NA Sulfide Present <input checked="" type="checkbox"/> Y N NA Lead Acetate Strips: <input checked="" type="checkbox"/> Y N NA Lab USE ONLY: Lab Sample #: / Comments:

Lab Sample Temperature Info:
 Temp Blank Received: Y N NA
 Therm ID#: _____
 Cooler Temp Upon Receipt: °C
 Cooler 1 Therm Corr. Factor: °C
 Cooler 1 Corrected Temp: _____ °C
 Comments: _____

Lab Tracking #: 2896882

Short Holds Present (<72 hours): N NA

Samples received via: FEDEX UPS Client Courier Pace Courier

Date/Time: _____

Date/Time: 5-18-23 0925

Date/Time: _____

Table #: _____
 Account #: _____
 Template: _____
 Prelogin: _____
 PM: _____
 PB: _____

Tri-Blank Received: Y N NA
 HCL: _____
 MeOH: _____
 Other: _____

Non Conformance(s): _____
 YES/NO: _____
 Page: _____ of _____

Customer Remarks / Special Conditions / Possible Hazards:
PCB congeners analyzed by
Mingopolis and other analyses
performed by Green Bay

Type of Ice Used: Wet Blue Dry None

Packing Material Used: 1

Radiation sample(s) screened (<500 cpm): Y N NA

Date/Time: 5/17/23 18:30
 Received by/Company: (Signature) Ben Wacholz TRC

Date/Time: 5-18-23 0925
 Received by/Company: (Signature) Ben Wacholz Pace


Date/Time: _____
 Received by/Company: (Signature) _____

Sample Condition Upon Receipt Form (SCUR)

Client Name: TRC

Project #:

WO#: 40262368



40262368

Courier: CS Logistics Fed Ex Speedee UPS Walto
 Client Pace Other: _____

Tracking #: 7721 7851 3973

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR - 117 Type of Ice: Wet Blue Dry None Meltwater Only

Cooler Temperature Uncorr: 2.0 /Corr: 2.0

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:
 Date: 5-18-23 /Initials: RA
 Labeled By Initials: ARY

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input type="checkbox"/> Yes <input type="checkbox"/> No	5.
- DI VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Correct Type: <u>Pace Green Bay</u> Pace IR, Non-Pace		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u> <u>R.H.6-1P-23</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logit



Reporting Flags

- A = Reporting Limit based on signal to noise (EDL)
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- H2 = Extracted outside of holding time
- I = Isotope ratio out of specification
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

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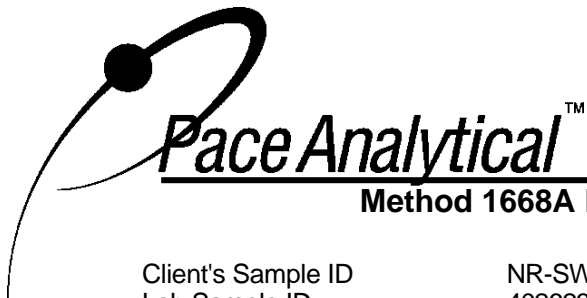
Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Appendix B

Sample Analysis Summary

REPORT OF LABORATORY ANALYSIS

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Method 1668A Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-DS2-202305		
Lab Sample ID	40262368001		
Filename	P230529A_11		
Injected By	BAL		
Total Amount Extracted	960 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	05/16/2023 11:15
ICAL ID	P230529A02	Received	05/20/2023 18:45
CCal Filename(s)	P230529A_01	Extracted	05/23/2023 12:15
Method Blank ID	BLANK-106282	Analyzed	05/29/2023 12:56

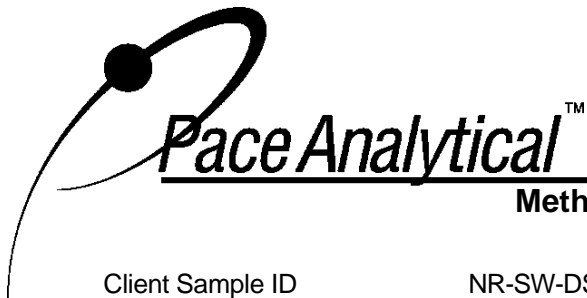
PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.171	2.95	2.0	1.42	71
13C-4-MoCB	3	12.986	3.09	2.0	1.69	84
13C-2,2'-DiCB	4	13.292	1.53	2.0	2.22	111
13C-4,4'-DiCB	15	20.415	1.58	2.0	1.85	92
13C-2,2',6-TrCB	19	17.143	1.04	2.0	2.26	113
13C-3,4,4'-TrCB	37	28.223	1.04	2.0	1.37	69
13C-2,2',6,6'-TeCB	54	20.767	0.79	2.0	1.49	74
13C-3,4,4',5-TeCB	81	35.377	0.79	2.0	1.49	75
13C-3,3',4,4'-TeCB	77	35.950	0.81	2.0	1.46	73
13C-2,2',4,6,6'-PeCB	104	26.909	1.57	2.0	1.77	89
13C-2,3,3',4,4'-PeCB	105	39.573	1.56	2.0	1.23	62
13C-2,3,4,4',5-PeCB	114	38.919	1.58	2.0	1.25	62
13C-2,3',4,4',5-PeCB	118	38.365	1.58	2.0	1.27	63
13C-2,3',4,4',5'-PeCB	123	38.030	1.53	2.0	1.23	62
13C-3,3',4,4',5-PeCB	126	42.742	1.54	2.0	1.08	54
13C-2,2',4,4',6,6'-HxCB	155	32.995	1.32	2.0	2.30	115
13C-HxCB (156/157)	156/157	45.816	1.26	4.0	2.42	61
13C-2,3',4,4',5,5'-HxCB	167	44.642	1.23	2.0	1.27	63
13C-3,3',4,4',5,5'-HxCB	169	49.119	1.23	2.0	1.41	71
13C-2,2',3,4',5,6,6'-HpCB	188	38.919	1.03	2.0	2.35	118
13C-2,3,3',4,4',5,5'-HpCB	189	51.676	1.05	2.0	1.52	76
13C-2,2',3,3',5,5',6,6'-OxCB	202	44.424	0.88	2.0	1.78	89
13C-2,3,3',4,4',5,5',6-OxCB	205	54.284	0.90	2.0	1.91	96
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.051	0.80	2.0	2.10	105
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.202	0.79	2.0	2.22	111
13C-DeCB	209	57.689	0.71	2.0	2.17	108
Cleanup Standards						
13C-2,4,4'-TrCB	28	23.845	1.03	2.0	1.28	64
13C-2,3,3',5,5'-PeCB	111	35.996	1.55	2.0	1.58	79
13C-2,2',3,3',5,5',6-HpCB	178	42.038	1.03	2.0	1.79	89
Recovery Standards						
13C-2,5-DiCB	9	15.773	1.55	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.856	0.79	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.196	1.54	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.568	1.26	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OxCB	194	53.810	0.90	2.0	NA	NA

R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-DS2-202305
 Lab Sample ID 40262368001
 Filename P230529A_11

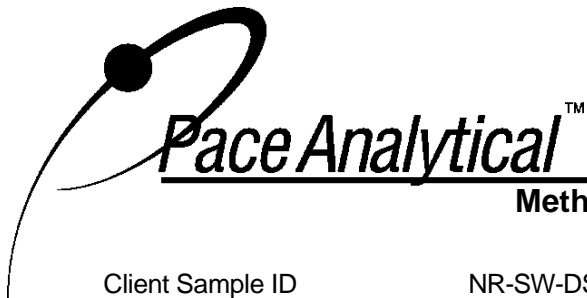
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.0417
2		---	---	ND	---	0.0417
3		---	---	ND	---	0.0417
4		---	---	ND	---	0.0417
5		---	---	ND	---	0.0417
6		---	---	ND	---	0.0417
7		---	---	ND	---	0.0417
8		---	---	ND	---	0.0417
9		---	---	ND	---	0.0417
10		---	---	ND	---	0.0417
11		---	---	ND	---	0.408
12	12/13	---	---	ND	---	0.0833
13	12/13	---	---	ND	---	0.0833
14		---	---	ND	---	0.0417
15		---	---	ND	---	0.0550
16		---	---	ND	---	0.0417
17		---	---	ND	---	0.0417
18	18/30	---	---	ND	---	0.0833
19		---	---	ND	---	0.0417
20	20/28	---	---	ND	---	0.215
21	21/33	---	---	ND	---	0.225
22		---	---	ND	---	0.158
23		---	---	ND	---	0.0417
24		---	---	ND	---	0.0417
25		---	---	ND	---	0.0417
26	26/29	---	---	ND	---	0.0833
27		---	---	ND	---	0.0417
28	20/28	---	---	ND	---	0.215
29	26/29	---	---	ND	---	0.0833
30	18/30	---	---	ND	---	0.0833
31		---	---	ND	---	0.217
32		---	---	ND	---	0.0417
33	21/33	---	---	ND	---	0.225
34		---	---	ND	---	0.0417
35		---	---	ND	---	0.0417
36		---	---	ND	---	0.0417
37		---	---	ND	---	0.0883
38		---	---	ND	---	0.0417
39		---	---	ND	---	0.0417
40	40/41/71	---	---	ND	---	0.125
41	40/41/71	---	---	ND	---	0.125
42		---	---	ND	---	0.0417
43	43/73	---	---	ND	---	0.0833
44	44/47/65	---	---	ND	---	0.125

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
 * = See Discussion
 X = Outside QC Limits
 RT = Retention Time
 I = Interference
 ng's = Nanograms

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-DS2-202305
 Lab Sample ID 40262368001
 Filename P230529A_11

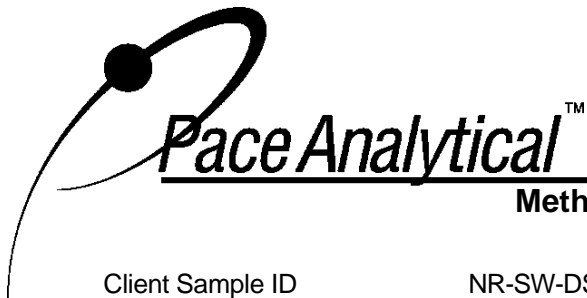
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
45	45/51	---	---	ND	---	0.0833
46		---	---	ND	---	0.0417
47	44/47/65	---	---	ND	---	0.125
48		---	---	ND	---	0.0417
49	49/69	---	---	ND	---	0.0833
50	50/53	---	---	ND	---	0.0833
51	45/51	---	---	ND	---	0.0833
52		---	---	ND	---	0.215
53	50/53	---	---	ND	---	0.0833
54		---	---	ND	---	0.0417
55		---	---	ND	---	0.0417
56		---	---	ND	---	0.0417
57		---	---	ND	---	0.0417
58		---	---	ND	---	0.0417
59	59/62/75	---	---	ND	---	0.125
60		---	---	ND	---	0.0417
61	61/70/74/76	---	---	ND	---	0.167
62	59/62/75	---	---	ND	---	0.125
63		---	---	ND	---	0.0417
64		---	---	ND	---	0.0417
65	44/47/65	---	---	ND	---	0.125
66		---	---	ND	---	0.0983
67		---	---	ND	---	0.0417
68		---	---	ND	---	0.0417
69	49/69	---	---	ND	---	0.0833
70	61/70/74/76	---	---	ND	---	0.167
71	40/41/71	---	---	ND	---	0.125
72		---	---	ND	---	0.0417
73	43/73	---	---	ND	---	0.0833
74	61/70/74/76	---	---	ND	---	0.167
75	59/62/75	---	---	ND	---	0.125
76	61/70/74/76	---	---	ND	---	0.167
77		---	---	ND	---	0.0417
78		---	---	ND	---	0.0417
79		---	---	ND	---	0.0417
80		---	---	ND	---	0.0417
81		---	---	ND	---	0.0417
82		---	---	ND	---	0.0417
83		---	---	ND	---	0.0417
84		---	---	ND	---	0.0417
85	85/116/117	---	---	ND	---	0.125
86	86/87/97/108/119/125	---	---	ND	---	0.250
87	86/87/97/108/119/125	---	---	ND	---	0.250
88	88/91	---	---	ND	---	0.0833

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
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REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-DS2-202305
 Lab Sample ID 40262368001
 Filename P230529A_11

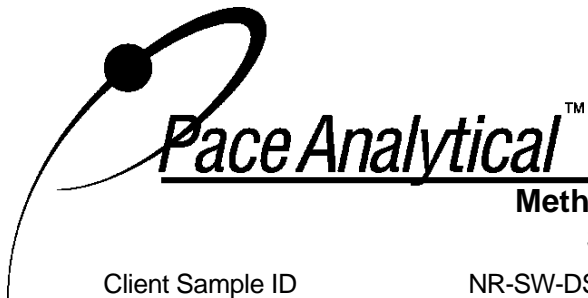
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
89		---	---	ND	---	0.0417
90	90/101/113	---	---	ND	---	0.125
91	88/91	---	---	ND	---	0.0833
92		---	---	ND	---	0.0417
93	93/98/100/102	---	---	ND	---	0.167
94		---	---	ND	---	0.0417
95		---	---	ND	---	0.117
96		---	---	ND	---	0.0417
97	86/87/97/108/119/125	---	---	ND	---	0.250
98	93/98/100/102	---	---	ND	---	0.167
99		---	---	ND	---	0.0417
100	93/98/100/102	---	---	ND	---	0.167
101	90/101/113	---	---	ND	---	0.125
102	93/98/100/102	---	---	ND	---	0.167
103		---	---	ND	---	0.0417
104		---	---	ND	---	0.0417
105		---	---	ND	---	0.0417
106		---	---	ND	---	0.0417
107	107/124	---	---	ND	---	0.0833
108	86/87/97/108/119/125	---	---	ND	---	0.250
109		---	---	ND	---	0.0417
110	110/115	---	---	ND	---	0.0833
111		---	---	ND	---	0.0417
112		---	---	ND	---	0.0417
113	90/101/113	---	---	ND	---	0.125
114		---	---	ND	---	0.0417
115	110/115	---	---	ND	---	0.0833
116	85/116/117	---	---	ND	---	0.125
117	85/116/117	---	---	ND	---	0.125
118		---	---	ND	---	0.0650
119	86/87/97/108/119/125	---	---	ND	---	0.250
120		---	---	ND	---	0.0417
121		---	---	ND	---	0.0417
122		---	---	ND	---	0.0417
123		---	---	ND	---	0.0417
124	107/124	---	---	ND	---	0.0833
125	86/87/97/108/119/125	---	---	ND	---	0.250
126		---	---	ND	---	0.0417
127		---	---	ND	---	0.0417
128	128/166	---	---	ND	---	0.0833
129	129/138/163	---	---	ND	---	0.125
130		---	---	ND	---	0.0417
131		---	---	ND	---	0.0417
132		---	---	ND	---	0.0417

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-DS2-202305
 Lab Sample ID 40262368001
 Filename P230529A_11

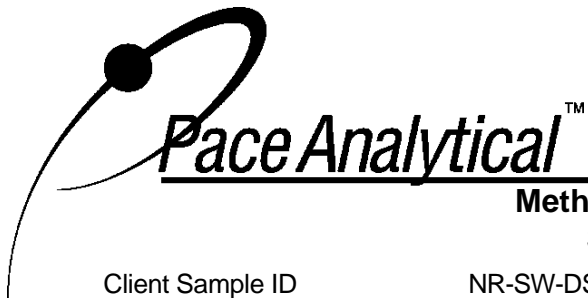
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
133		---	---	ND	---	0.0417
134	134/143	---	---	ND	---	0.0833
135	135/151	---	---	ND	---	0.0833
136		---	---	ND	---	0.0417
137		---	---	ND	---	0.0417
138	129/138/163	---	---	ND	---	0.125
139	139/140	---	---	ND	---	0.0833
140	139/140	---	---	ND	---	0.0833
141		---	---	ND	---	0.0417
142		---	---	ND	---	0.0417
143	134/143	---	---	ND	---	0.0833
144		---	---	ND	---	0.0417
145		---	---	ND	---	0.0417
146		---	---	ND	---	0.0417
147	147/149	---	---	ND	---	0.0833
148		---	---	ND	---	0.0417
149	147/149	---	---	ND	---	0.0833
150		---	---	ND	---	0.0417
151	135/151	---	---	ND	---	0.0833
152		---	---	ND	---	0.0417
153	153/168	---	---	ND	---	0.0833
154		---	---	ND	---	0.0417
155		---	---	ND	---	0.0417
156	156/157	---	---	ND	---	0.0833
157	156/157	---	---	ND	---	0.0833
158		---	---	ND	---	0.0417
159		---	---	ND	---	0.0417
160		---	---	ND	---	0.0417
161		---	---	ND	---	0.0417
162		---	---	ND	---	0.0417
163	129/138/163	---	---	ND	---	0.125
164		---	---	ND	---	0.0417
165		---	---	ND	---	0.0417
166	128/166	---	---	ND	---	0.0833
167		---	---	ND	---	0.0417
168	153/168	---	---	ND	---	0.0833
169		---	---	ND	---	0.0417
170		---	---	ND	---	0.0417
171	171/173	---	---	ND	---	0.0833
172		---	---	ND	---	0.0417
173	171/173	---	---	ND	---	0.0833
174		---	---	ND	---	0.0417
175		---	---	ND	---	0.0417
176		---	---	ND	---	0.0417

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

ND = Not Detected
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 ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-DS2-202305
 Lab Sample ID 40262368001
 Filename P230529A_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
177		---	---	ND	---	0.0417
178		---	---	ND	---	0.0417
179		---	---	ND	---	0.0417
180	180/193	---	---	ND	---	0.0833
181		---	---	ND	---	0.0417
182		---	---	ND	---	0.0417
183	183/185	---	---	ND	---	0.0833
184		---	---	ND	---	0.0417
185	183/185	---	---	ND	---	0.0833
186		---	---	ND	---	0.0417
187		---	---	ND	---	0.0417
188		---	---	ND	---	0.0417
189		---	---	ND	---	0.0417
190		---	---	ND	---	0.0417
191		---	---	ND	---	0.0417
192		---	---	ND	---	0.0417
193	180/193	---	---	ND	---	0.0833
194		---	---	ND	---	0.0417
195		---	---	ND	---	0.0417
196		---	---	ND	---	0.0417
197	197/200	---	---	ND	---	0.0833
198	198/199	---	---	ND	---	0.0833
199	198/199	---	---	ND	---	0.0833
200	197/200	---	---	ND	---	0.0833
201		---	---	ND	---	0.0417
202		---	---	ND	---	0.0417
203		---	---	ND	---	0.0417
204		---	---	ND	---	0.0417
205		---	---	ND	---	0.0417
206		---	---	ND	---	0.0417
207		---	---	ND	---	0.0417
208		---	---	ND	---	0.0417
209		---	---	ND	---	0.0417

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
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REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

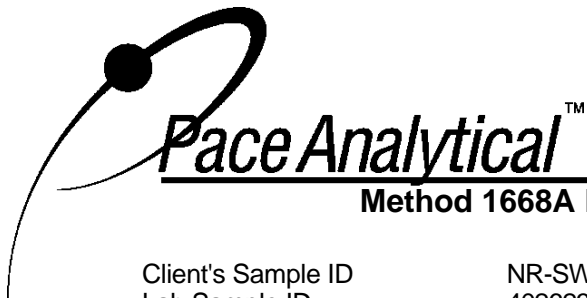
Client Sample ID NR-SW-DS2-202305
Lab Sample ID 40262368001
Filename P230529A_11

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	ND

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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Method 1668A Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-DUP1-202305		
Lab Sample ID	40262368002		
Filename	P230529A_12		
Injected By	BAL		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	05/16/2023
ICAL ID	P230529A02	Received	05/20/2023 18:45
CCal Filename(s)	P230529A_01	Extracted	05/23/2023 12:15
Method Blank ID	BLANK-106282	Analyzed	05/29/2023 13:59

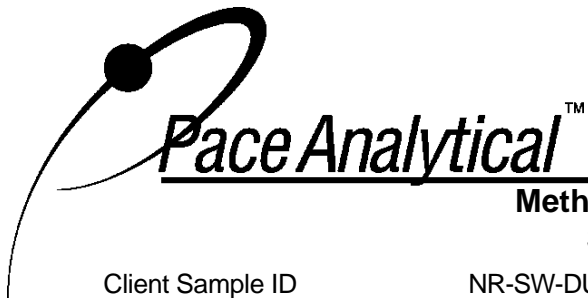
PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.159	2.95	2.0	1.44	72
13C-4-MoCB	3	12.975	3.04	2.0	1.62	81
13C-2,2'-DiCB	4	13.292	1.56	2.0	2.22	111
13C-4,4'-DiCB	15	20.404	1.55	2.0	1.78	89
13C-2,2',6-TrCB	19	17.121	1.02	2.0	2.31	115
13C-3,4,4'-TrCB	37	28.208	1.04	2.0	1.30	65
13C-2,2',6,6'-TeCB	54	20.751	0.77	2.0	1.50	75
13C-3,4,4',5-TeCB	81	35.362	0.76	2.0	1.38	69
13C-3,3',4,4'-TeCB	77	35.950	0.79	2.0	1.33	67
13C-2,2',4,6,6'-PeCB	104	26.908	1.73	2.0	1.72	86
13C-2,3,3',4,4'-PeCB	105	39.573	1.61	2.0	1.06	53
13C-2,3,4,4',5-PeCB	114	38.918	1.62	2.0	1.06	53
13C-2,3',4,4',5-PeCB	118	38.365	1.59	2.0	1.09	55
13C-2,3',4,4',5'-PeCB	123	38.013	1.53	2.0	1.09	54
13C-3,3',4,4',5-PeCB	126	42.742	1.55	2.0	0.936	47
13C-2,2',4,4',6,6'-HxCB	155	32.995	1.24	2.0	2.27	113
13C-HxCB (156/157)	156/157	45.816	1.27	4.0	2.19	55
13C-2,3',4,4',5,5'-HxCB	167	44.642	1.28	2.0	1.14	57
13C-3,3',4,4',5,5'-HxCB	169	49.103	1.27	2.0	1.30	65
13C-2,2',3,4',5,6,6'-HpCB	188	38.918	1.05	2.0	2.21	111
13C-2,3,3',4,4',5,5'-HpCB	189	51.676	1.05	2.0	1.46	73
13C-2,2',3,3',5,5',6,6'-OxCB	202	44.407	0.91	2.0	1.73	87
13C-2,3,3',4,4',5,5',6-OxCB	205	54.284	0.89	2.0	1.79	89
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.051	0.81	2.0	1.99	99
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.202	0.77	2.0	2.14	107
13C-DeCB	209	57.690	0.70	2.0	2.30	115
CleanupStandards						
13C-2,4,4'-TrCB	28	23.845	1.04	2.0	1.29	65
13C-2,3,3',5,5'-PeCB	111	35.996	1.55	2.0	1.53	76
13C-2,2',3,3',5,5',6-HpCB	178	42.021	1.04	2.0	1.82	91
Recovery Standards						
13C-2,5-DiCB	9	15.762	1.56	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.856	0.76	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.196	1.55	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.568	1.24	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OxCB	194	53.810	0.90	2.0	NA	NA

R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

* = See Discussion
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REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-DUP1-202305
 Lab Sample ID 40262368002
 Filename P230529A_12

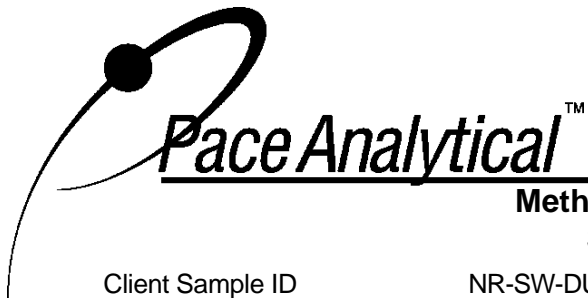
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.0383
2		---	---	ND	---	0.0383
3		---	---	ND	---	0.0383
4		13.314	1.48	0.148	---	0.0383
5		---	---	ND	---	0.0383
6		16.270	1.51	0.0717	---	0.0383
7		---	---	ND	---	0.0383
8		---	---	ND	---	0.0383
9		---	---	ND	---	0.0383
10		---	---	ND	---	0.0383
11		---	---	ND	---	0.376
12	12/13	---	---	ND	---	0.0766
13	12/13	---	---	ND	---	0.0766
14		---	---	ND	---	0.0383
15		---	---	ND	---	0.0506
16		---	---	ND	---	0.0383
17		19.851	1.05	0.154	---	0.0383
18	18/30	19.365	1.05	0.0975	---	0.0766
19		17.143	0.90	0.0925	---	0.0383
20	20/28	---	---	ND	---	0.198
21	21/33	---	---	ND	---	0.207
22		---	---	ND	---	0.146
23		---	---	ND	---	0.0383
24		---	---	ND	---	0.0383
25		23.180	0.95	0.140	---	0.0383
26	26/29	22.917	1.10	0.260	---	0.0766
27		---	---	ND	---	0.0383
28	20/28	---	---	ND	---	0.198
29	26/29	22.917	1.10	(0.260)	---	0.0766
30	18/30	19.365	1.05	(0.0975)	---	0.0766
31		---	---	ND	---	0.199
32		20.983	1.01	0.0626	---	0.0383
33	21/33	---	---	ND	---	0.207
34		---	---	ND	---	0.0383
35		---	---	ND	---	0.0383
36		---	---	ND	---	0.0383
37		---	---	ND	---	0.0812
38		---	---	ND	---	0.0383
39		---	---	ND	---	0.0383
40	40/41/71	28.068	0.76	0.306	---	0.115
41	40/41/71	28.068	0.76	(0.306)	---	0.115
42		27.527	0.76	0.206	---	0.0383
43	43/73	---	---	ND	---	0.0766
44	44/47/65	27.032	0.75	0.917	---	0.115

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-DUP1-202305
 Lab Sample ID 40262368002
 Filename P230529A_12

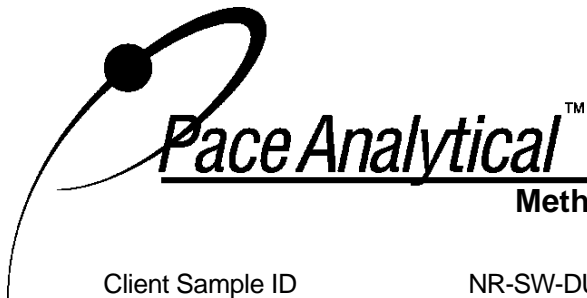
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
45	45/51	24.061	0.77	0.152	---	0.0766
46		24.309	0.71	0.0796	---	0.0383
47	44/47/65	27.032	0.75	(0.917)	---	0.115
48		---	---	ND	---	0.0383
49	49/69	26.413	0.78	1.34	---	0.0766
50	50/53	23.211	0.79	0.288	---	0.0766
51	45/51	24.061	0.77	(0.152)	---	0.0766
52		25.872	0.76	1.88	---	0.198
53	50/53	23.211	0.79	(0.288)	---	0.0766
54		---	---	ND	---	0.0383
55		---	---	ND	---	0.0383
56		32.082	0.69	0.0568	---	0.0383
57		---	---	ND	---	0.0383
58		---	---	ND	---	0.0383
59	59/62/75	---	---	ND	---	0.115
60		---	---	ND	---	0.0383
61	61/70/74/76	31.030	0.76	0.411	---	0.153
62	59/62/75	---	---	ND	---	0.115
63		---	---	ND	---	0.0383
64		28.300	0.78	0.150	---	0.0383
65	44/47/65	27.032	0.75	(0.917)	---	0.115
66		31.386	0.77	0.330	---	0.0904
67		---	---	ND	---	0.0383
68		---	---	ND	---	0.0383
69	49/69	26.413	0.78	(1.34)	---	0.0766
70	61/70/74/76	31.030	0.76	(0.411)	---	0.153
71	40/41/71	28.068	0.76	(0.306)	---	0.115
72		29.204	0.71	0.0473	---	0.0383
73	43/73	---	---	ND	---	0.0766
74	61/70/74/76	31.030	0.76	(0.411)	---	0.153
75	59/62/75	---	---	ND	---	0.115
76	61/70/74/76	31.030	0.76	(0.411)	---	0.153
77		---	---	ND	---	0.0383
78		---	---	ND	---	0.0383
79		---	---	ND	---	0.0383
80		---	---	ND	---	0.0383
81		---	---	ND	---	0.0383
82		35.594	1.56	0.110	---	0.0383
83		33.706	1.56	0.144	---	0.0383
84		31.246	1.46	0.489	---	0.0383
85	85/116/117	35.114	1.65	0.319	---	0.115
86	86/87/97/108/119/125	34.356	1.59	1.03	---	0.230
87	86/87/97/108/119/125	34.356	1.59	(1.03)	---	0.230
88	88/91	31.030	1.56	0.382	---	0.0766

Conc = Concentration
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REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-DUP1-202305
 Lab Sample ID 40262368002
 Filename P230529A_12

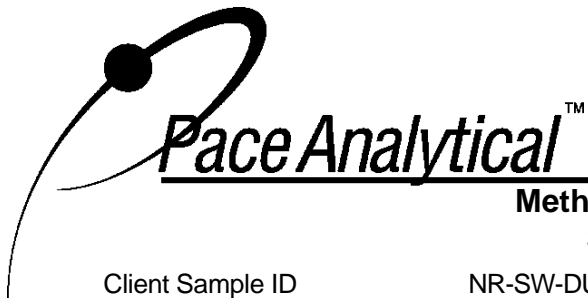
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
89		---	---	ND	---	0.0383
90	90/101/113	33.227	1.54	1.89	---	0.115
91	88/91	31.030	1.56	(0.382)	---	0.0766
92		32.608	1.54	0.679	---	0.0383
93	93/98/100/102	---	---	ND	---	0.153
94		---	---	ND	---	0.0383
95		30.101	1.57	1.61	---	0.107
96		---	---	ND	---	0.0383
97	86/87/97/108/119/125	34.356	1.59	(1.03)	---	0.230
98	93/98/100/102	---	---	ND	---	0.153
99		33.846	1.56	0.959	---	0.0383
100	93/98/100/102	---	---	ND	---	0.153
101	90/101/113	33.227	1.54	(1.89)	---	0.115
102	93/98/100/102	---	---	ND	---	0.153
103		29.421	1.47	0.0423	---	0.0383
104		---	---	ND	---	0.0383
105		39.590	1.53	0.320	---	0.0383
106		---	---	ND	---	0.0383
107	107/124	---	---	ND	---	0.0766
108	86/87/97/108/119/125	34.356	1.59	(1.03)	---	0.230
109		37.912	1.52	0.112	---	0.0383
110	110/115	35.269	1.53	2.64	---	0.0766
111		---	---	ND	---	0.0383
112		---	---	ND	---	0.0383
113	90/101/113	33.227	1.54	(1.89)	---	0.115
114		---	---	ND	---	0.0383
115	110/115	35.269	1.53	(2.64)	---	0.0766
116	85/116/117	35.114	1.65	(0.319)	---	0.115
117	85/116/117	35.114	1.65	(0.319)	---	0.115
118		38.382	1.46	1.04	---	0.0598
119	86/87/97/108/119/125	34.356	1.59	(1.03)	---	0.230
120		---	---	ND	---	0.0383
121		---	---	ND	---	0.0383
122		---	---	ND	---	0.0383
123		---	---	ND	---	0.0383
124	107/124	---	---	ND	---	0.0766
125	86/87/97/108/119/125	34.356	1.59	(1.03)	---	0.230
126		---	---	ND	---	0.0383
127		---	---	ND	---	0.0383
128	128/166	42.876	1.23	0.255	---	0.0766
129	129/138/163	41.602	1.22	1.35	---	0.115
130		40.914	1.21	0.114	---	0.0383
131		---	---	ND	---	0.0383
132		38.499	1.18	0.533	---	0.0383

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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-DUP1-202305
Lab Sample ID 40262368002
Filename P230529A_12

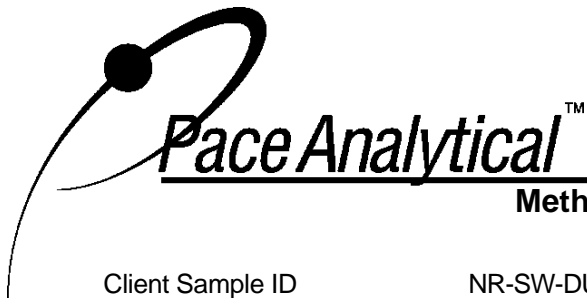
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
133		---	---	ND	---	0.0383
134	134/143	37.409	1.12	0.118	---	0.0766
135	135/151	36.259	1.23	0.693	---	0.0766
136		33.722	1.20	0.247	---	0.0383
137		41.166	1.28	0.0724	---	0.0383
138	129/138/163	41.602	1.22	(1.35)	---	0.115
139	139/140	---	---	ND	---	0.0766
140	139/140	---	---	ND	---	0.0766
141		40.512	1.16	0.166	---	0.0383
142		---	---	ND	---	0.0383
143	134/143	37.409	1.12	(0.118)	---	0.0766
144		36.832	1.27	0.0628	---	0.0383
145		---	---	ND	---	0.0383
146		39.690	1.24	0.215	---	0.0383
147	147/149	37.208	1.22	1.16	---	0.0766
148		---	---	ND	---	0.0383
149	147/149	37.208	1.22	(1.16)	---	0.0766
150		---	---	ND	---	0.0383
151	135/151	36.259	1.23	(0.693)	---	0.0766
152		---	---	ND	---	0.0383
153	153/168	40.311	1.20	1.00	---	0.0766
154		36.522	1.22	0.0390	---	0.0383
155		---	---	ND	---	0.0383
156	156/157	45.816	1.29	0.171	---	0.0766
157	156/157	45.816	1.29	(0.171)	---	0.0766
158		42.004	1.20	0.123	---	0.0383
159		---	---	ND	---	0.0383
160		---	---	ND	---	0.0383
161		---	---	ND	---	0.0383
162		---	---	ND	---	0.0383
163	129/138/163	41.602	1.22	(1.35)	---	0.115
164		41.266	1.13	0.0877	---	0.0383
165		---	---	ND	---	0.0383
166	128/166	42.876	1.23	(0.255)	---	0.0766
167		44.659	1.14	0.0598	---	0.0383
168	153/168	40.311	1.20	(1.00)	---	0.0766
169		---	---	ND	---	0.0383
170		48.533	1.09	0.122	---	0.0383
171	171/173	---	---	ND	---	0.0766
172		---	---	ND	---	0.0383
173	171/173	---	---	ND	---	0.0766
174		43.837	1.05	0.113	---	0.0383
175		---	---	ND	---	0.0383
176		---	---	ND	---	0.0383

Conc = Concentration
EML = Method Reporting/Quantitation Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise (EDL)
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-DUP1-202305
 Lab Sample ID 40262368002
 Filename P230529A_12

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
177		44.306	0.98	0.0861	---	0.0383
178		42.038	0.99	0.0391	---	0.0383
179		39.271	1.06	0.0779	---	0.0383
180	180/193	47.258	1.06	0.188	---	0.0766
181		---	---	ND	---	0.0383
182		---	---	ND	---	0.0383
183	183/185	---	---	ND	---	0.0766
184		---	---	ND	---	0.0383
185	183/185	---	---	ND	---	0.0766
186		---	---	ND	---	0.0383
187		42.993	1.06	0.178	---	0.0383
188		---	---	ND	---	0.0383
189		---	---	ND	---	0.0383
190		---	---	ND	---	0.0383
191		---	---	ND	---	0.0383
192		---	---	ND	---	0.0383
193	180/193	47.258	1.06	(0.188)	---	0.0766
194		---	---	ND	---	0.0383
195		---	---	ND	---	0.0383
196		---	---	ND	---	0.0383
197	197/200	---	---	ND	---	0.0766
198	198/199	---	---	ND	---	0.0766
199	198/199	---	---	ND	---	0.0766
200	197/200	---	---	ND	---	0.0766
201		---	---	ND	---	0.0383
202		---	---	ND	---	0.0383
203		---	---	ND	---	0.0383
204		---	---	ND	---	0.0383
205		---	---	ND	---	0.0383
206		---	---	ND	---	0.0383
207		---	---	ND	---	0.0383
208		---	---	ND	---	0.0383
209		---	---	ND	---	0.0383

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

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REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

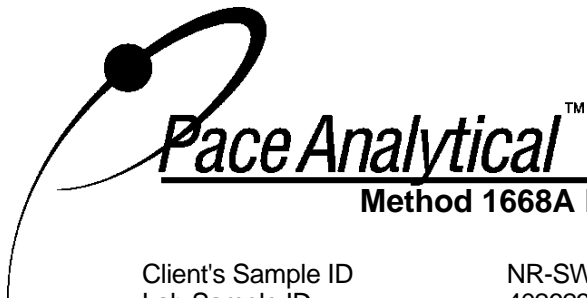
Client Sample ID NR-SW-DUP1-202305
Lab Sample ID 40262368002
Filename P230529A_12

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	0.219
Total Trichloro Biphenyls	0.807
Total Tetrachloro Biphenyls	6.16
Total Pentachloro Biphenyls	11.8
Total Hexachloro Biphenyls	6.46
Total Heptachloro Biphenyls	0.805
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	26.2

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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Method 1668A Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-EB-202305		
Lab Sample ID	40262368003		
Filename	P230529B_04		
Injected By	BAL		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	05/16/2023 11:30
ICAL ID	P230529B02	Received	05/20/2023 18:45
CCal Filename(s)	P230529B_01	Extracted	05/23/2023 12:15
Method Blank ID	BLANK-106282	Analyzed	05/29/2023 19:14

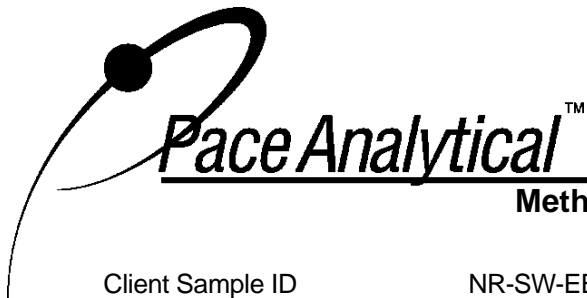
PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.148	2.98	2.0	1.47	74
13C-4-MoCB	3	12.975	3.09	2.0	1.78	89
13C-2,2'-DiCB	4	13.280	1.62	2.0	2.41	120
13C-4,4'-DiCB	15	20.415	1.57	2.0	1.87	94
13C-2,2',6-TrCB	19	17.132	1.00	2.0	2.38	119
13C-3,4,4'-TrCB	37	28.223	1.02	2.0	1.32	66
13C-2,2',6,6'-TeCB	54	20.766	0.79	2.0	1.57	78
13C-3,4,4',5-TeCB	81	35.377	0.76	2.0	1.40	70
13C-3,3',4,4'-TeCB	77	35.950	0.76	2.0	1.34	67
13C-2,2',4,6,6'-PeCB	104	26.908	1.55	2.0	1.92	96
13C-2,3,3',4,4'-PeCB	105	39.572	1.60	2.0	1.24	62
13C-2,3,4,4',5-PeCB	114	38.918	1.55	2.0	1.22	61
13C-2,3',4,4',5-PeCB	118	38.365	1.54	2.0	1.21	60
13C-2,3',4,4',5'-PeCB	123	38.030	1.57	2.0	1.22	61
13C-3,3',4,4',5-PeCB	126	42.742	1.54	2.0	1.10	55
13C-2,2',4,4',6,6'-HxCB	155	32.995	1.24	2.0	2.31	115
13C-HxCB (156/157)	156/157	45.833	1.25	4.0	2.39	60
13C-2,3',4,4',5,5'-HxCB	167	44.659	1.24	2.0	1.26	63
13C-3,3',4,4',5,5'-HxCB	169	49.119	1.30	2.0	1.35	67
13C-2,2',3,4',5,6,6'-HpCB	188	38.935	1.04	2.0	2.48	124
13C-2,3,3',4,4',5,5'-HpCB	189	51.676	1.02	2.0	1.53	77
13C-2,2',3,3',5,5',6,6'-OxCB	202	44.408	0.86	2.0	1.88	94
13C-2,3,3',4,4',5,5',6-OxCB	205	54.305	0.86	2.0	1.87	93
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.051	0.81	2.0	2.10	105
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.223	0.79	2.0	2.29	114
13C-DeCB	209	57.689	0.69	2.0	2.20	110
Cleanup Standards						
13C-2,4,4'-TrCB	28	23.845	1.03	2.0	1.22	61
13C-2,3,3',5,5'-PeCB	111	35.996	1.57	2.0	1.53	77
13C-2,2',3,3',5,5',6-HpCB	178	42.037	1.06	2.0	1.78	89
Recovery Standards						
13C-2,5-DiCB	9	15.762	1.54	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.856	0.74	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.211	1.55	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.585	1.23	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OxCB	194	53.810	0.87	2.0	NA	NA

R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-EB-202305
 Lab Sample ID 40262368003
 Filename P230529B_04

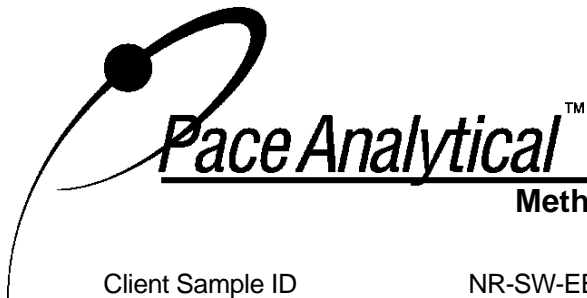
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.0385
2		---	---	ND	---	0.0385
3		---	---	ND	---	0.0385
4		---	---	ND	---	0.0385
5		---	---	ND	---	0.0385
6		---	---	ND	---	0.0385
7		---	---	ND	---	0.0385
8		---	---	ND	---	0.0385
9		---	---	ND	---	0.0385
10		---	---	ND	---	0.0385
11		---	---	ND	---	0.377
12	12/13	---	---	ND	---	0.0770
13	12/13	---	---	ND	---	0.0770
14		---	---	ND	---	0.0385
15		---	---	ND	---	0.0508
16		---	---	ND	---	0.0385
17		---	---	ND	---	0.0385
18	18/30	---	---	ND	---	0.0770
19		---	---	ND	---	0.0385
20	20/28	---	---	ND	---	0.199
21	21/33	---	---	ND	---	0.208
22		---	---	ND	---	0.146
23		---	---	ND	---	0.0385
24		---	---	ND	---	0.0385
25		---	---	ND	---	0.0385
26	26/29	---	---	ND	---	0.0770
27		---	---	ND	---	0.0385
28	20/28	---	---	ND	---	0.199
29	26/29	---	---	ND	---	0.0770
30	18/30	---	---	ND	---	0.0770
31		---	---	ND	---	0.200
32		---	---	ND	---	0.0385
33	21/33	---	---	ND	---	0.208
34		---	---	ND	---	0.0385
35		---	---	ND	---	0.0385
36		---	---	ND	---	0.0385
37		---	---	ND	---	0.0816
38		---	---	ND	---	0.0385
39		---	---	ND	---	0.0385
40	40/41/71	---	---	ND	---	0.115
41	40/41/71	---	---	ND	---	0.115
42		---	---	ND	---	0.0385
43	43/73	---	---	ND	---	0.0770
44	44/47/65	---	---	ND	---	0.115

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

ND = Not Detected
 NA = Not Applicable
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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-EB-202305
 Lab Sample ID 40262368003
 Filename P230529B_04

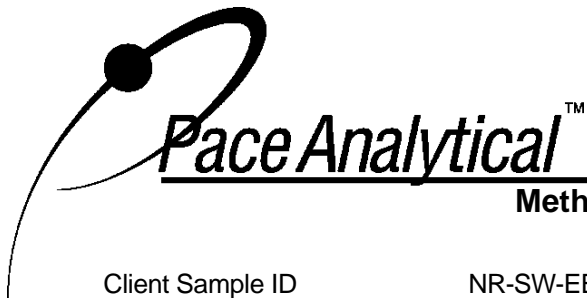
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
45	45/51	---	---	ND	---	0.0770
46		---	---	ND	---	0.0385
47	44/47/65	---	---	ND	---	0.115
48		---	---	ND	---	0.0385
49	49/69	---	---	ND	---	0.0770
50	50/53	---	---	ND	---	0.0770
51	45/51	---	---	ND	---	0.0770
52		---	---	ND	---	0.199
53	50/53	---	---	ND	---	0.0770
54		---	---	ND	---	0.0385
55		---	---	ND	---	0.0385
56		---	---	ND	---	0.0385
57		---	---	ND	---	0.0385
58		---	---	ND	---	0.0385
59	59/62/75	---	---	ND	---	0.115
60		---	---	ND	---	0.0385
61	61/70/74/76	---	---	ND	---	0.154
62	59/62/75	---	---	ND	---	0.115
63		---	---	ND	---	0.0385
64		---	---	ND	---	0.0385
65	44/47/65	---	---	ND	---	0.115
66		---	---	ND	---	0.0908
67		---	---	ND	---	0.0385
68		---	---	ND	---	0.0385
69	49/69	---	---	ND	---	0.0770
70	61/70/74/76	---	---	ND	---	0.154
71	40/41/71	---	---	ND	---	0.115
72		---	---	ND	---	0.0385
73	43/73	---	---	ND	---	0.0770
74	61/70/74/76	---	---	ND	---	0.154
75	59/62/75	---	---	ND	---	0.115
76	61/70/74/76	---	---	ND	---	0.154
77		---	---	ND	---	0.0385
78		---	---	ND	---	0.0385
79		---	---	ND	---	0.0385
80		---	---	ND	---	0.0385
81		---	---	ND	---	0.0385
82		---	---	ND	---	0.0385
83		---	---	ND	---	0.0385
84		---	---	ND	---	0.0385
85	85/116/117	---	---	ND	---	0.115
86	86/87/97/108/119/125	---	---	ND	---	0.231
87	86/87/97/108/119/125	---	---	ND	---	0.231
88	88/91	---	---	ND	---	0.0770

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-EB-202305
 Lab Sample ID 40262368003
 Filename P230529B_04

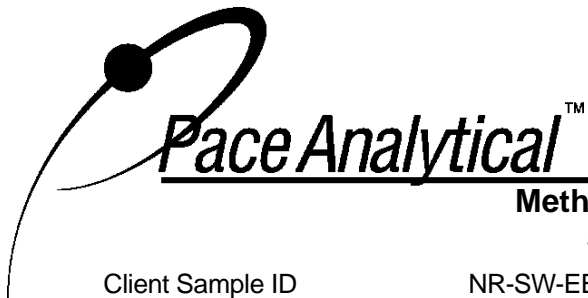
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
89		---	---	ND	---	0.0385
90	90/101/113	---	---	ND	---	0.115
91	88/91	---	---	ND	---	0.0770
92		---	---	ND	---	0.0385
93	93/98/100/102	---	---	ND	---	0.154
94		---	---	ND	---	0.0385
95		---	---	ND	---	0.108
96		---	---	ND	---	0.0385
97	86/87/97/108/119/125	---	---	ND	---	0.231
98	93/98/100/102	---	---	ND	---	0.154
99		---	---	ND	---	0.0385
100	93/98/100/102	---	---	ND	---	0.154
101	90/101/113	---	---	ND	---	0.115
102	93/98/100/102	---	---	ND	---	0.154
103		---	---	ND	---	0.0385
104		---	---	ND	---	0.0385
105		---	---	ND	---	0.0385
106		---	---	ND	---	0.0385
107	107/124	---	---	ND	---	0.0770
108	86/87/97/108/119/125	---	---	ND	---	0.231
109		---	---	ND	---	0.0385
110	110/115	---	---	ND	---	0.0770
111		---	---	ND	---	0.0385
112		---	---	ND	---	0.0385
113	90/101/113	---	---	ND	---	0.115
114		---	---	ND	---	0.0385
115	110/115	---	---	ND	---	0.0770
116	85/116/117	---	---	ND	---	0.115
117	85/116/117	---	---	ND	---	0.115
118		---	---	ND	---	0.0600
119	86/87/97/108/119/125	---	---	ND	---	0.231
120		---	---	ND	---	0.0385
121		---	---	ND	---	0.0385
122		---	---	ND	---	0.0385
123		---	---	ND	---	0.0385
124	107/124	---	---	ND	---	0.0770
125	86/87/97/108/119/125	---	---	ND	---	0.231
126		---	---	ND	---	0.0385
127		---	---	ND	---	0.0385
128	128/166	---	---	ND	---	0.0770
129	129/138/163	---	---	ND	---	0.115
130		---	---	ND	---	0.0385
131		---	---	ND	---	0.0385
132		---	---	ND	---	0.0385

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-EB-202305
 Lab Sample ID 40262368003
 Filename P230529B_04

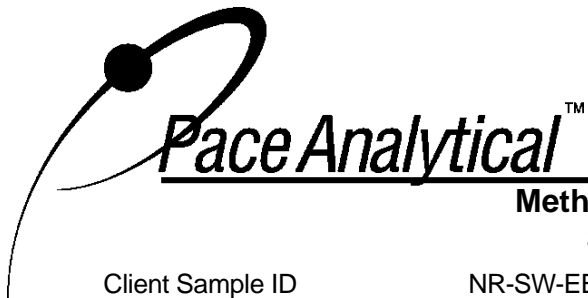
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
133		---	---	ND	---	0.0385
134	134/143	---	---	ND	---	0.0770
135	135/151	---	---	ND	---	0.0770
136		---	---	ND	---	0.0385
137		---	---	ND	---	0.0385
138	129/138/163	---	---	ND	---	0.115
139	139/140	---	---	ND	---	0.0770
140	139/140	---	---	ND	---	0.0770
141		---	---	ND	---	0.0385
142		---	---	ND	---	0.0385
143	134/143	---	---	ND	---	0.0770
144		---	---	ND	---	0.0385
145		---	---	ND	---	0.0385
146		---	---	ND	---	0.0385
147	147/149	---	---	ND	---	0.0770
148		---	---	ND	---	0.0385
149	147/149	---	---	ND	---	0.0770
150		---	---	ND	---	0.0385
151	135/151	---	---	ND	---	0.0770
152		---	---	ND	---	0.0385
153	153/168	---	---	ND	---	0.0770
154		---	---	ND	---	0.0385
155		---	---	ND	---	0.0385
156	156/157	---	---	ND	---	0.0770
157	156/157	---	---	ND	---	0.0770
158		---	---	ND	---	0.0385
159		---	---	ND	---	0.0385
160		---	---	ND	---	0.0385
161		---	---	ND	---	0.0385
162		---	---	ND	---	0.0385
163	129/138/163	---	---	ND	---	0.115
164		---	---	ND	---	0.0385
165		---	---	ND	---	0.0385
166	128/166	---	---	ND	---	0.0770
167		---	---	ND	---	0.0385
168	153/168	---	---	ND	---	0.0770
169		---	---	ND	---	0.0385
170		---	---	ND	---	0.0385
171	171/173	---	---	ND	---	0.0770
172		---	---	ND	---	0.0385
173	171/173	---	---	ND	---	0.0770
174		---	---	ND	---	0.0385
175		---	---	ND	---	0.0385
176		---	---	ND	---	0.0385

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
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ND = Not Detected
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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-EB-202305
 Lab Sample ID 40262368003
 Filename P230529B_04

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
177		---	---	ND	---	0.0385
178		---	---	ND	---	0.0385
179		---	---	ND	---	0.0385
180	180/193	---	---	ND	---	0.0770
181		---	---	ND	---	0.0385
182		---	---	ND	---	0.0385
183	183/185	---	---	ND	---	0.0770
184		---	---	ND	---	0.0385
185	183/185	---	---	ND	---	0.0770
186		---	---	ND	---	0.0385
187		---	---	ND	---	0.0385
188		---	---	ND	---	0.0385
189		---	---	ND	---	0.0385
190		---	---	ND	---	0.0385
191		---	---	ND	---	0.0385
192		---	---	ND	---	0.0385
193	180/193	---	---	ND	---	0.0770
194		---	---	ND	---	0.0385
195		---	---	ND	---	0.0385
196		---	---	ND	---	0.0385
197	197/200	---	---	ND	---	0.0770
198	198/199	---	---	ND	---	0.0770
199	198/199	---	---	ND	---	0.0770
200	197/200	---	---	ND	---	0.0770
201		---	---	ND	---	0.0385
202		---	---	ND	---	0.0385
203		---	---	ND	---	0.0385
204		---	---	ND	---	0.0385
205		---	---	ND	---	0.0385
206		---	---	ND	---	0.0385
207		---	---	ND	---	0.0385
208		---	---	ND	---	0.0385
209		---	---	ND	---	0.0385

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

ND = Not Detected
 NA = Not Applicable
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 X = Outside QC Limits
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REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-EB-202305
Lab Sample ID 40262368003
Filename P230529B_04

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	ND

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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Method 1668A Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-FB-202305		
Lab Sample ID	40262368004		
Filename	P230529B_05		
Injected By	BAL		
Total Amount Extracted	1050 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	05/16/2023 11:45
ICAL ID	P230529B02	Received	05/20/2023 18:45
CCal Filename(s)	P230529B_01	Extracted	05/23/2023 12:15
Method Blank ID	BLANK-106282	Analyzed	05/29/2023 20:17

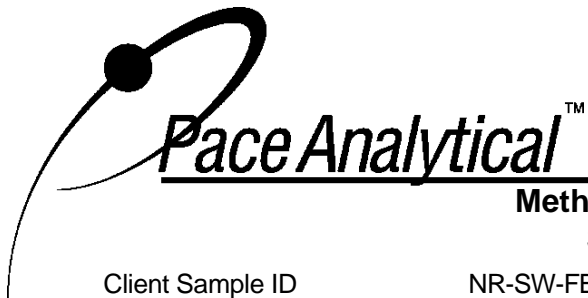
PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.170	3.03	2.0	1.42	71
13C-4-MoCB	3	12.986	3.08	2.0	1.57	79
13C-2,2'-DiCB	4	13.303	1.53	2.0	2.14	107
13C-4,4'-DiCB	15	20.415	1.56	2.0	1.67	84
13C-2,2',6-TrCB	19	17.143	1.02	2.0	2.05	103
13C-3,4,4'-TrCB	37	28.223	1.03	2.0	1.21	60
13C-2,2',6,6'-TeCB	54	20.751	0.79	2.0	1.34	67
13C-3,4,4',5-TeCB	81	35.362	0.79	2.0	1.28	64
13C-3,3',4,4'-TeCB	77	35.950	0.80	2.0	1.23	61
13C-2,2',4,6,6'-PeCB	104	26.923	1.62	2.0	1.70	85
13C-2,3,3',4,4'-PeCB	105	39.573	1.59	2.0	1.07	53
13C-2,3,4,4',5-PeCB	114	38.918	1.61	2.0	1.07	53
13C-2,3',4,4',5-PeCB	118	38.365	1.62	2.0	1.11	55
13C-2,3',4,4',5'-PeCB	123	38.030	1.58	2.0	1.13	56
13C-3,3',4,4',5-PeCB	126	42.742	1.60	2.0	0.995	50
13C-2,2',4,4',6,6'-HxCB	155	32.995	1.23	2.0	2.11	106
13C-HxCB (156/157)	156/157	45.816	1.26	4.0	2.23	56
13C-2,3',4,4',5,5'-HxCB	167	44.642	1.27	2.0	1.14	57
13C-3,3',4,4',5,5'-HxCB	169	49.103	1.30	2.0	1.28	64
13C-2,2',3,4',5,6,6'-HpCB	188	38.918	1.04	2.0	2.07	103
13C-2,3,3',4,4',5,5'-HpCB	189	51.675	1.09	2.0	1.38	69
13C-2,2',3,3',5,5',6,6'-OxCB	202	44.407	0.88	2.0	1.58	79
13C-2,3,3',4,4',5,5',6-OxCB	205	54.283	0.88	2.0	1.70	85
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.051	0.79	2.0	1.88	94
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.201	0.79	2.0	1.96	98
13C-DeCB	209	57.689	0.71	2.0	2.07	104
CleanupStandards						
13C-2,4,4'-TrCB	28	23.845	1.02	2.0	1.09	54
13C-2,3,3',5,5'-PeCB	111	35.996	1.54	2.0	1.37	69
13C-2,2',3,3',5,5',6-HpCB	178	42.021	1.02	2.0	1.56	78
Recovery Standards						
13C-2,5-DiCB	9	15.773	1.52	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.856	0.76	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.196	1.57	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.568	1.24	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OxCB	194	53.809	0.91	2.0	NA	NA

R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

* = See Discussion
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REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-FB-202305
 Lab Sample ID 40262368004
 Filename P230529B_05

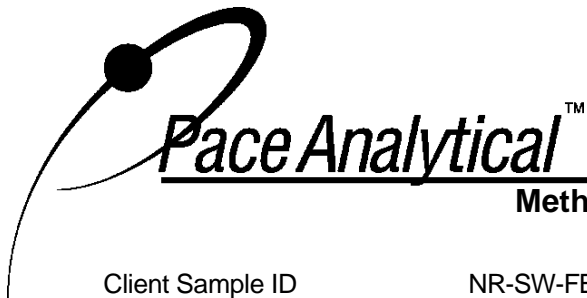
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.0382
2		---	---	ND	---	0.0382
3		---	---	ND	---	0.0382
4		---	---	ND	---	0.0382
5		---	---	ND	---	0.0382
6		---	---	ND	---	0.0382
7		---	---	ND	---	0.0382
8		---	---	ND	---	0.0382
9		---	---	ND	---	0.0382
10		---	---	ND	---	0.0382
11		---	---	ND	---	0.375
12	12/13	---	---	ND	---	0.0765
13	12/13	---	---	ND	---	0.0765
14		---	---	ND	---	0.0382
15		---	---	ND	---	0.0505
16		---	---	ND	---	0.0382
17		---	---	ND	---	0.0382
18	18/30	---	---	ND	---	0.0765
19		---	---	ND	---	0.0382
20	20/28	---	---	ND	---	0.197
21	21/33	---	---	ND	---	0.206
22		---	---	ND	---	0.145
23		---	---	ND	---	0.0382
24		---	---	ND	---	0.0382
25		---	---	ND	---	0.0382
26	26/29	---	---	ND	---	0.0765
27		---	---	ND	---	0.0382
28	20/28	---	---	ND	---	0.197
29	26/29	---	---	ND	---	0.0765
30	18/30	---	---	ND	---	0.0765
31		---	---	ND	---	0.199
32		---	---	ND	---	0.0382
33	21/33	---	---	ND	---	0.206
34		---	---	ND	---	0.0382
35		---	---	ND	---	0.0382
36		---	---	ND	---	0.0382
37		---	---	ND	---	0.0811
38		---	---	ND	---	0.0382
39		---	---	ND	---	0.0382
40	40/41/71	---	---	ND	---	0.115
41	40/41/71	---	---	ND	---	0.115
42		---	---	ND	---	0.0382
43	43/73	---	---	ND	---	0.0765
44	44/47/65	---	---	ND	---	0.115

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-FB-202305
 Lab Sample ID 40262368004
 Filename P230529B_05

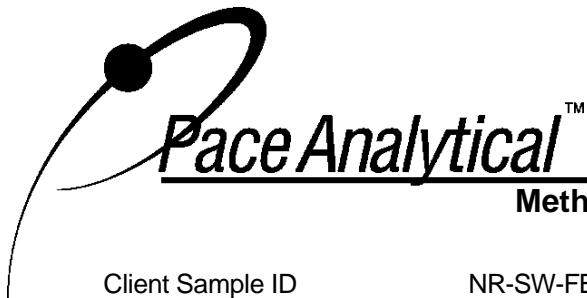
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
45	45/51	---	---	ND	---	0.0765
46		---	---	ND	---	0.0382
47	44/47/65	---	---	ND	---	0.115
48		---	---	ND	---	0.0382
49	49/69	---	---	ND	---	0.0765
50	50/53	---	---	ND	---	0.0765
51	45/51	---	---	ND	---	0.0765
52		---	---	ND	---	0.197
53	50/53	---	---	ND	---	0.0765
54		---	---	ND	---	0.0382
55		---	---	ND	---	0.0382
56		---	---	ND	---	0.0382
57		---	---	ND	---	0.0382
58		---	---	ND	---	0.0382
59	59/62/75	---	---	ND	---	0.115
60		---	---	ND	---	0.0382
61	61/70/74/76	---	---	ND	---	0.153
62	59/62/75	---	---	ND	---	0.115
63		---	---	ND	---	0.0382
64		---	---	ND	---	0.0382
65	44/47/65	---	---	ND	---	0.115
66		---	---	ND	---	0.0902
67		---	---	ND	---	0.0382
68		---	---	ND	---	0.0382
69	49/69	---	---	ND	---	0.0765
70	61/70/74/76	---	---	ND	---	0.153
71	40/41/71	---	---	ND	---	0.115
72		---	---	ND	---	0.0382
73	43/73	---	---	ND	---	0.0765
74	61/70/74/76	---	---	ND	---	0.153
75	59/62/75	---	---	ND	---	0.115
76	61/70/74/76	---	---	ND	---	0.153
77		---	---	ND	---	0.0382
78		---	---	ND	---	0.0382
79		---	---	ND	---	0.0382
80		---	---	ND	---	0.0382
81		---	---	ND	---	0.0382
82		---	---	ND	---	0.0382
83		---	---	ND	---	0.0382
84		---	---	ND	---	0.0382
85	85/116/117	---	---	ND	---	0.115
86	86/87/97/108/119/125	---	---	ND	---	0.229
87	86/87/97/108/119/125	---	---	ND	---	0.229
88	88/91	---	---	ND	---	0.0765

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
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 B = Less than 10 times higher than method blank level
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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-FB-202305
 Lab Sample ID 40262368004
 Filename P230529B_05

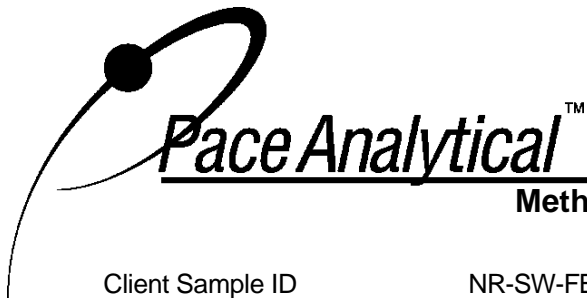
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
89		---	---	ND	---	0.0382
90	90/101/113	---	---	ND	---	0.115
91	88/91	---	---	ND	---	0.0765
92		---	---	ND	---	0.0382
93	93/98/100/102	---	---	ND	---	0.153
94		---	---	ND	---	0.0382
95		---	---	ND	---	0.107
96		---	---	ND	---	0.0382
97	86/87/97/108/119/125	---	---	ND	---	0.229
98	93/98/100/102	---	---	ND	---	0.153
99		---	---	ND	---	0.0382
100	93/98/100/102	---	---	ND	---	0.153
101	90/101/113	---	---	ND	---	0.115
102	93/98/100/102	---	---	ND	---	0.153
103		---	---	ND	---	0.0382
104		---	---	ND	---	0.0382
105		---	---	ND	---	0.0382
106		---	---	ND	---	0.0382
107	107/124	---	---	ND	---	0.0765
108	86/87/97/108/119/125	---	---	ND	---	0.229
109		---	---	ND	---	0.0382
110	110/115	---	---	ND	---	0.0765
111		---	---	ND	---	0.0382
112		---	---	ND	---	0.0382
113	90/101/113	---	---	ND	---	0.115
114		---	---	ND	---	0.0382
115	110/115	---	---	ND	---	0.0765
116	85/116/117	---	---	ND	---	0.115
117	85/116/117	---	---	ND	---	0.115
118		---	---	ND	---	0.0596
119	86/87/97/108/119/125	---	---	ND	---	0.229
120		---	---	ND	---	0.0382
121		---	---	ND	---	0.0382
122		---	---	ND	---	0.0382
123		---	---	ND	---	0.0382
124	107/124	---	---	ND	---	0.0765
125	86/87/97/108/119/125	---	---	ND	---	0.229
126		---	---	ND	---	0.0382
127		---	---	ND	---	0.0382
128	128/166	---	---	ND	---	0.0765
129	129/138/163	---	---	ND	---	0.115
130		---	---	ND	---	0.0382
131		---	---	ND	---	0.0382
132		---	---	ND	---	0.0382

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-FB-202305
 Lab Sample ID 40262368004
 Filename P230529B_05

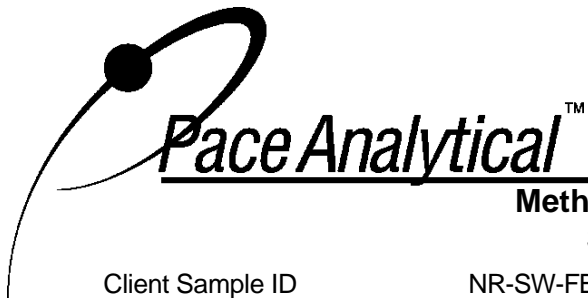
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
133		---	---	ND	---	0.0382
134	134/143	---	---	ND	---	0.0765
135	135/151	---	---	ND	---	0.0765
136		---	---	ND	---	0.0382
137		---	---	ND	---	0.0382
138	129/138/163	---	---	ND	---	0.115
139	139/140	---	---	ND	---	0.0765
140	139/140	---	---	ND	---	0.0765
141		---	---	ND	---	0.0382
142		---	---	ND	---	0.0382
143	134/143	---	---	ND	---	0.0765
144		---	---	ND	---	0.0382
145		---	---	ND	---	0.0382
146		---	---	ND	---	0.0382
147	147/149	---	---	ND	---	0.0765
148		---	---	ND	---	0.0382
149	147/149	---	---	ND	---	0.0765
150		---	---	ND	---	0.0382
151	135/151	---	---	ND	---	0.0765
152		---	---	ND	---	0.0382
153	153/168	---	---	ND	---	0.0765
154		---	---	ND	---	0.0382
155		---	---	ND	---	0.0382
156	156/157	---	---	ND	---	0.0765
157	156/157	---	---	ND	---	0.0765
158		---	---	ND	---	0.0382
159		---	---	ND	---	0.0382
160		---	---	ND	---	0.0382
161		---	---	ND	---	0.0382
162		---	---	ND	---	0.0382
163	129/138/163	---	---	ND	---	0.115
164		---	---	ND	---	0.0382
165		---	---	ND	---	0.0382
166	128/166	---	---	ND	---	0.0765
167		---	---	ND	---	0.0382
168	153/168	---	---	ND	---	0.0765
169		---	---	ND	---	0.0382
170		---	---	ND	---	0.0382
171	171/173	---	---	ND	---	0.0765
172		---	---	ND	---	0.0382
173	171/173	---	---	ND	---	0.0765
174		---	---	ND	---	0.0382
175		---	---	ND	---	0.0382
176		---	---	ND	---	0.0382

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-FB-202305
 Lab Sample ID 40262368004
 Filename P230529B_05

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
177		---	---	ND	---	0.0382
178		---	---	ND	---	0.0382
179		---	---	ND	---	0.0382
180	180/193	---	---	ND	---	0.0765
181		---	---	ND	---	0.0382
182		---	---	ND	---	0.0382
183	183/185	---	---	ND	---	0.0765
184		---	---	ND	---	0.0382
185	183/185	---	---	ND	---	0.0765
186		---	---	ND	---	0.0382
187		---	---	ND	---	0.0382
188		---	---	ND	---	0.0382
189		---	---	ND	---	0.0382
190		---	---	ND	---	0.0382
191		---	---	ND	---	0.0382
192		---	---	ND	---	0.0382
193	180/193	---	---	ND	---	0.0765
194		---	---	ND	---	0.0382
195		---	---	ND	---	0.0382
196		---	---	ND	---	0.0382
197	197/200	---	---	ND	---	0.0765
198	198/199	---	---	ND	---	0.0765
199	198/199	---	---	ND	---	0.0765
200	197/200	---	---	ND	---	0.0765
201		---	---	ND	---	0.0382
202		---	---	ND	---	0.0382
203		---	---	ND	---	0.0382
204		---	---	ND	---	0.0382
205		---	---	ND	---	0.0382
206		---	---	ND	---	0.0382
207		---	---	ND	---	0.0382
208		---	---	ND	---	0.0382
209		---	---	ND	---	0.0382

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-FB-202305
Lab Sample ID 40262368004
Filename P230529B_05

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	ND

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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Method 1668A Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-DS1-202305		
Lab Sample ID	40262368005		
Filename	P230529B_06		
Injected By	BAL		
Total Amount Extracted	1050 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	05/16/2023 12:45
ICAL ID	P230529B02	Received	05/20/2023 18:45
CCal Filename(s)	P230529B_01	Extracted	05/23/2023 12:15
Method Blank ID	BLANK-106282	Analyzed	05/29/2023 21:20

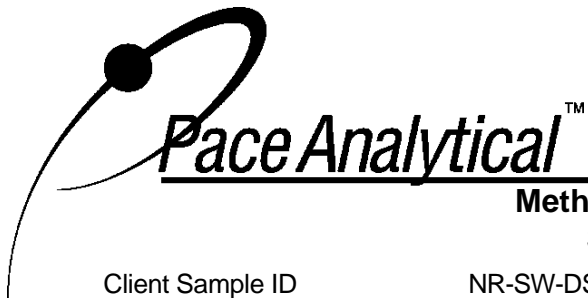
PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.205	2.84	2.0	1.43	72
13C-4-MoCB	3	13.009	3.01	2.0	1.73	87
13C-2,2'-DiCB	4	13.325	1.62	2.0	2.39	120
13C-4,4'-DiCB	15	20.426	1.56	2.0	1.80	90
13C-2,2',6-TrCB	19	17.154	1.04	2.0	2.24	112
13C-3,4,4'-TrCB	37	28.223	1.02	2.0	1.30	65
13C-2,2',6,6'-TeCB	54	20.766	0.76	2.0	1.53	77
13C-3,4,4',5-TeCB	81	35.361	0.80	2.0	1.34	67
13C-3,3',4,4'-TeCB	77	35.949	0.78	2.0	1.30	65
13C-2,2',4,6,6'-PeCB	104	26.908	1.60	2.0	1.81	91
13C-2,3,3',4,4'-PeCB	105	39.572	1.60	2.0	1.05	52
13C-2,3,4,4',5-PeCB	114	38.918	1.62	2.0	1.05	53
13C-2,3',4,4',5-PeCB	118	38.365	1.61	2.0	1.09	54
13C-2,3',4,4',5'-PeCB	123	38.029	1.49	2.0	1.07	53
13C-3,3',4,4',5-PeCB	126	42.725	1.52	2.0	0.883	44
13C-2,2',4,4',6,6'-HxCB	155	32.994	1.30	2.0	2.37	118
13C-HxCB (156/157)	156/157	45.815	1.26	4.0	2.13	53
13C-2,3',4,4',5,5'-HxCB	167	44.641	1.24	2.0	1.11	56
13C-3,3',4,4',5,5'-HxCB	169	49.102	1.27	2.0	1.22	61
13C-2,2',3,4',5,6,6'-HpCB	188	38.918	1.01	2.0	2.16	108
13C-2,3,3',4,4',5,5'-HpCB	189	51.675	1.05	2.0	1.39	70
13C-2,2',3,3',5,5',6,6'-OcCB	202	44.407	0.91	2.0	1.61	81
13C-2,3,3',4,4',5,5',6-OcCB	205	54.283	0.91	2.0	1.73	86
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.050	0.76	2.0	1.98	99
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.201	0.77	2.0	2.07	104
13C-DeCB	209	57.688	0.69	2.0	2.11	106
CleanupStandards						
13C-2,4,4'-TrCB	28	23.860	1.03	2.0	1.21	60
13C-2,3,3',5,5'-PeCB	111	35.996	1.59	2.0	1.51	76
13C-2,2',3,3',5,5',6-HpCB	178	42.037	1.04	2.0	1.75	87
Recovery Standards						
13C-2,5-DiCB	9	15.795	1.54	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.856	0.77	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.195	1.55	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.568	1.24	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	53.809	0.89	2.0	NA	NA

R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-DS1-202305
 Lab Sample ID 40262368005
 Filename P230529B_06

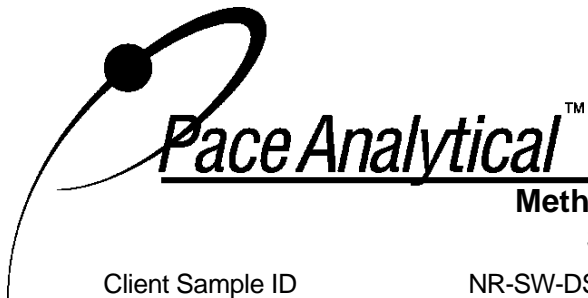
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.0383
2		---	---	ND	---	0.0383
3		---	---	ND	---	0.0383
4		13.337	1.34	0.154	---	0.0383
5		---	---	ND	---	0.0383
6		16.303	1.43	0.0811	---	0.0383
7		---	---	ND	---	0.0383
8		---	---	ND	---	0.0383
9		---	---	ND	---	0.0383
10		---	---	ND	---	0.0383
11		---	---	ND	---	0.375
12	12/13	---	---	ND	---	0.0765
13	12/13	---	---	ND	---	0.0765
14		---	---	ND	---	0.0383
15		---	---	ND	---	0.0505
16		---	---	ND	---	0.0383
17		19.873	1.04	0.130	---	0.0383
18	18/30	19.387	0.93	0.0817	---	0.0765
19		17.176	1.08	0.100	---	0.0383
20	20/28	---	---	ND	---	0.197
21	21/33	---	---	ND	---	0.207
22		---	---	ND	---	0.145
23		---	---	ND	---	0.0383
24		---	---	ND	---	0.0383
25		23.195	1.11	0.161	---	0.0383
26	26/29	22.932	1.01	0.284	---	0.0765
27		---	---	ND	---	0.0383
28	20/28	---	---	ND	---	0.197
29	26/29	22.932	1.01	(0.284)	---	0.0765
30	18/30	19.387	0.93	(0.0817)	---	0.0765
31		---	---	ND	---	0.199
32		20.998	1.10	0.0699	---	0.0383
33	21/33	---	---	ND	---	0.207
34		---	---	ND	---	0.0383
35		---	---	ND	---	0.0383
36		---	---	ND	---	0.0383
37		---	---	ND	---	0.0811
38		---	---	ND	---	0.0383
39		---	---	ND	---	0.0383
40	40/41/71	28.084	0.79	0.260	---	0.115
41	40/41/71	28.084	0.79	(0.260)	---	0.115
42		27.542	0.74	0.158	---	0.0383
43	43/73	---	---	ND	---	0.0765
44	44/47/65	27.031	0.78	0.769	---	0.115

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-DS1-202305
 Lab Sample ID 40262368005
 Filename P230529B_06

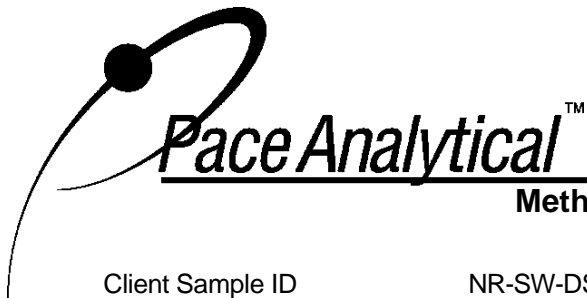
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
45	45/51	24.077	0.73	0.131	---	0.0765
46		24.309	0.79	0.0634	---	0.0383
47	44/47/65	27.031	0.78	(0.769)	---	0.115
48		---	---	ND	---	0.0383
49	49/69	26.428	0.77	1.10	---	0.0765
50	50/53	23.226	0.77	0.249	---	0.0765
51	45/51	24.077	0.73	(0.131)	---	0.0765
52		25.887	0.76	1.41	---	0.197
53	50/53	23.226	0.77	(0.249)	---	0.0765
54		---	---	ND	---	0.0383
55		---	---	ND	---	0.0383
56		32.066	0.85	0.0386	---	0.0383
57		29.993	0.76	0.0399	---	0.0383
58		---	---	ND	---	0.0383
59	59/62/75	---	---	ND	---	0.115
60		---	---	ND	---	0.0383
61	61/70/74/76	31.030	0.80	0.270	---	0.153
62	59/62/75	---	---	ND	---	0.115
63		---	---	ND	---	0.0383
64		28.316	0.77	0.0957	---	0.0383
65	44/47/65	27.031	0.78	(0.769)	---	0.115
66		31.385	0.78	0.229	---	0.0903
67		---	---	ND	---	0.0383
68		---	---	ND	---	0.0383
69	49/69	26.428	0.77	(1.10)	---	0.0765
70	61/70/74/76	31.030	0.80	(0.270)	---	0.153
71	40/41/71	28.084	0.79	(0.260)	---	0.115
72		29.220	0.77	0.0415	---	0.0383
73	43/73	---	---	ND	---	0.0765
74	61/70/74/76	31.030	0.80	(0.270)	---	0.153
75	59/62/75	---	---	ND	---	0.115
76	61/70/74/76	31.030	0.80	(0.270)	---	0.153
77		---	---	ND	---	0.0383
78		---	---	ND	---	0.0383
79		---	---	ND	---	0.0383
80		---	---	ND	---	0.0383
81		---	---	ND	---	0.0383
82		35.593	1.64	0.0472	---	0.0383
83		33.691	1.57	0.0910	---	0.0383
84		31.246	1.49	0.252	---	0.0383
85	85/116/117	35.068	1.40	0.136	---	0.115
86	86/87/97/108/119/125	34.356	1.48	0.504	---	0.230
87	86/87/97/108/119/125	34.356	1.48	(0.504)	---	0.230
88	88/91	31.045	1.53	0.255	---	0.0765

Conc = Concentration
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REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-DS1-202305
 Lab Sample ID 40262368005
 Filename P230529B_06

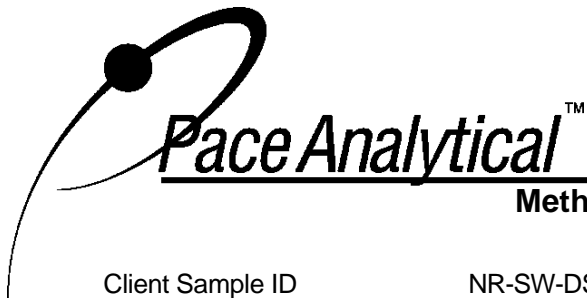
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
89		---	---	ND	---	0.0383
90	90/101/113	33.227	1.54	0.912	---	0.115
91	88/91	31.045	1.53	(0.255)	---	0.0765
92		32.608	1.53	0.431	---	0.0383
93	93/98/100/102	---	---	ND	---	0.153
94		---	---	ND	---	0.0383
95		30.101	1.48	0.844	---	0.107
96		---	---	ND	---	0.0383
97	86/87/97/108/119/125	34.356	1.48	(0.504)	---	0.230
98	93/98/100/102	---	---	ND	---	0.153
99		33.845	1.53	0.473	---	0.0383
100	93/98/100/102	---	---	ND	---	0.153
101	90/101/113	33.227	1.54	(0.912)	---	0.115
102	93/98/100/102	---	---	ND	---	0.153
103		---	---	ND	---	0.0383
104		---	---	ND	---	0.0383
105		39.589	1.46	0.136	---	0.0383
106		---	---	ND	---	0.0383
107	107/124	---	---	ND	---	0.0765
108	86/87/97/108/119/125	34.356	1.48	(0.504)	---	0.230
109		37.929	1.50	0.0728	---	0.0383
110	110/115	35.269	1.58	1.37	---	0.0765
111		---	---	ND	---	0.0383
112		---	---	ND	---	0.0383
113	90/101/113	33.227	1.54	(0.912)	---	0.115
114		---	---	ND	---	0.0383
115	110/115	35.269	1.58	(1.37)	---	0.0765
116	85/116/117	35.068	1.40	(0.136)	---	0.115
117	85/116/117	35.068	1.40	(0.136)	---	0.115
118		38.398	1.52	0.534	---	0.0597
119	86/87/97/108/119/125	34.356	1.48	(0.504)	---	0.230
120		---	---	ND	---	0.0383
121		---	---	ND	---	0.0383
122		---	---	ND	---	0.0383
123		---	---	ND	---	0.0383
124	107/124	---	---	ND	---	0.0765
125	86/87/97/108/119/125	34.356	1.48	(0.504)	---	0.230
126		---	---	ND	---	0.0383
127		---	---	ND	---	0.0383
128	128/166	42.875	1.24	0.122	---	0.0765
129	129/138/163	41.601	1.18	0.638	---	0.115
130		40.930	1.16	0.0605	---	0.0383
131		---	---	ND	---	0.0383
132		38.499	1.29	0.282	---	0.0383

Conc = Concentration
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REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-DS1-202305
 Lab Sample ID 40262368005
 Filename P230529B_06

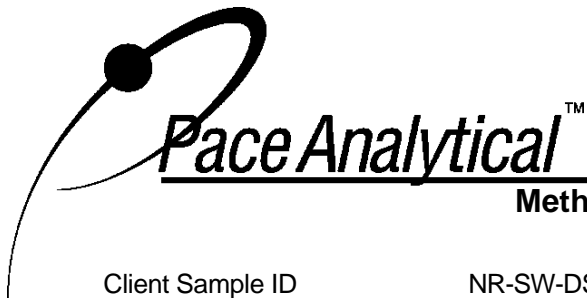
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
133		---	---	ND	---	0.0383
134	134/143	---	---	ND	---	0.0765
135	135/151	36.228	1.27	0.311	---	0.0765
136		33.722	1.25	0.125	---	0.0383
137		---	---	ND	---	0.0383
138	129/138/163	41.601	1.18	(0.638)	---	0.115
139	139/140	---	---	ND	---	0.0765
140	139/140	---	---	ND	---	0.0765
141		40.511	1.23	0.0744	---	0.0383
142		---	---	ND	---	0.0383
143	134/143	---	---	ND	---	0.0765
144		---	---	ND	---	0.0383
145		---	---	ND	---	0.0383
146		39.689	1.26	0.120	---	0.0383
147	147/149	37.208	1.19	0.657	---	0.0765
148		---	---	ND	---	0.0383
149	147/149	37.208	1.19	(0.657)	---	0.0765
150		---	---	ND	---	0.0383
151	135/151	36.228	1.27	(0.311)	---	0.0765
152		---	---	ND	---	0.0383
153	153/168	40.327	1.24	0.469	---	0.0765
154		---	---	ND	---	0.0383
155		---	---	ND	---	0.0383
156	156/157	45.832	1.20	0.0824	---	0.0765
157	156/157	45.832	1.20	(0.0824)	---	0.0765
158		42.020	1.18	0.0533	---	0.0383
159		---	---	ND	---	0.0383
160		---	---	ND	---	0.0383
161		---	---	ND	---	0.0383
162		---	---	ND	---	0.0383
163	129/138/163	41.601	1.18	(0.638)	---	0.115
164		41.266	1.22	0.0464	---	0.0383
165		---	---	ND	---	0.0383
166	128/166	42.875	1.24	(0.122)	---	0.0765
167		---	---	ND	---	0.0383
168	153/168	40.327	1.24	(0.469)	---	0.0765
169		---	---	ND	---	0.0383
170		48.549	1.02	0.0782	---	0.0383
171	171/173	---	---	ND	---	0.0765
172		---	---	ND	---	0.0383
173	171/173	---	---	ND	---	0.0765
174		43.853	1.03	0.0634	---	0.0383
175		---	---	ND	---	0.0383
176		---	---	ND	---	0.0383

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-DS1-202305
 Lab Sample ID 40262368005
 Filename P230529B_06

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
177		44.306	1.08	0.0540	---	0.0383
178		---	---	ND	---	0.0383
179		39.287	0.98	0.0425	---	0.0383
180	180/193	47.257	1.01	0.124	---	0.0765
181		---	---	ND	---	0.0383
182		---	---	ND	---	0.0383
183	183/185	---	---	ND	---	0.0765
184		---	---	ND	---	0.0383
185	183/185	---	---	ND	---	0.0765
186		---	---	ND	---	0.0383
187		42.993	1.14	0.0922	---	0.0383
188		---	---	ND	---	0.0383
189		---	---	ND	---	0.0383
190		---	---	ND	---	0.0383
191		---	---	ND	---	0.0383
192		---	---	ND	---	0.0383
193	180/193	47.257	1.01	(0.124)	---	0.0765
194		---	---	ND	---	0.0383
195		---	---	ND	---	0.0383
196		---	---	ND	---	0.0383
197	197/200	---	---	ND	---	0.0765
198	198/199	---	---	ND	---	0.0765
199	198/199	---	---	ND	---	0.0765
200	197/200	---	---	ND	---	0.0765
201		---	---	ND	---	0.0383
202		---	---	ND	---	0.0383
203		---	---	ND	---	0.0383
204		---	---	ND	---	0.0383
205		---	---	ND	---	0.0383
206		---	---	ND	---	0.0383
207		---	---	ND	---	0.0383
208		---	---	ND	---	0.0383
209		---	---	ND	---	0.0383

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-DS1-202305
Lab Sample ID 40262368005
Filename P230529B_06

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	0.235
Total Trichloro Biphenyls	0.827
Total Tetrachloro Biphenyls	4.86
Total Pentachloro Biphenyls	6.06
Total Hexachloro Biphenyls	3.04
Total Heptachloro Biphenyls	0.455
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	15.5

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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Method 1668A Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-OU4-202305		
Lab Sample ID	40262368006		
Filename	P230529B_07		
Injected By	BAL		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	05/16/2023 13:15
ICAL ID	P230529B02	Received	05/20/2023 18:45
CCal Filename(s)	P230529B_01	Extracted	05/23/2023 12:15
Method Blank ID	BLANK-106282	Analyzed	05/29/2023 22:22

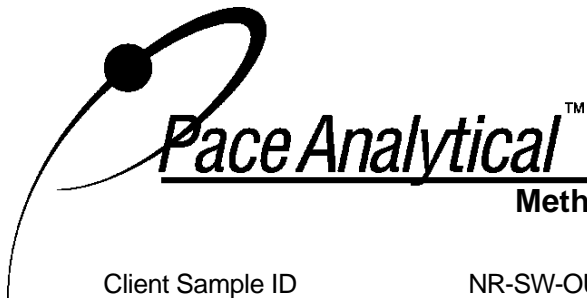
PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.137	2.95	2.0	1.53	76
13C-4-MoCB	3	12.953	2.99	2.0	1.65	82
13C-2,2'-DiCB	4	13.258	1.55	2.0	2.30	115
13C-4,4'-DiCB	15	20.393	1.56	2.0	1.72	86
13C-2,2',6-TrCB	19	17.121	1.05	2.0	2.35	117
13C-3,4,4'-TrCB	37	28.208	1.03	2.0	1.20	60
13C-2,2',6,6'-TeCB	54	20.736	0.77	2.0	1.52	76
13C-3,4,4',5-TeCB	81	35.362	0.76	2.0	1.29	64
13C-3,3',4,4'-TeCB	77	35.935	0.78	2.0	1.28	64
13C-2,2',4,6,6'-PeCB	104	26.909	1.54	2.0	1.75	87
13C-2,3,3',4,4'-PeCB	105	39.556	1.61	2.0	1.04	52
13C-2,3,4,4',5-PeCB	114	38.919	1.58	2.0	1.05	52
13C-2,3',4,4',5-PeCB	118	38.349	1.54	2.0	1.03	51
13C-2,3',4,4',5'-PeCB	123	38.030	1.53	2.0	1.08	54
13C-3,3',4,4',5-PeCB	126	42.726	1.61	2.0	0.852	43
13C-2,2',4,4',6,6'-HxCB	155	32.980	1.25	2.0	2.30	115
13C-HxCB (156/157)	156/157	45.816	1.27	4.0	2.05	51
13C-2,3',4,4',5,5'-HxCB	167	44.643	1.26	2.0	1.10	55
13C-3,3',4,4',5,5'-HxCB	169	49.103	1.25	2.0	1.18	59
13C-2,2',3,4',5,6,6'-HpCB	188	38.919	1.04	2.0	2.19	110
13C-2,3,3',4,4',5,5'-HpCB	189	51.676	1.05	2.0	1.38	69
13C-2,2',3,3',5,5',6,6'-OxCB	202	44.408	0.91	2.0	1.59	79
13C-2,3,3',4,4',5,5',6-OxCB	205	54.284	0.89	2.0	1.68	84
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.051	0.77	2.0	1.94	97
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.202	0.76	2.0	2.06	103
13C-DeCB	209	57.689	0.72	2.0	2.04	102
Cleanup Standards						
13C-2,4,4'-TrCB	28	23.845	1.03	2.0	1.14	57
13C-2,3,3',5,5'-PeCB	111	35.981	1.56	2.0	1.48	74
13C-2,2',3,3',5,5',6-HpCB	178	42.021	1.06	2.0	1.73	86
Recovery Standards						
13C-2,5-DiCB	9	15.751	1.51	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.841	0.77	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.181	1.54	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.568	1.27	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OxCB	194	53.810	0.91	2.0	NA	NA

R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-OU4-202305
 Lab Sample ID 40262368006
 Filename P230529B_07

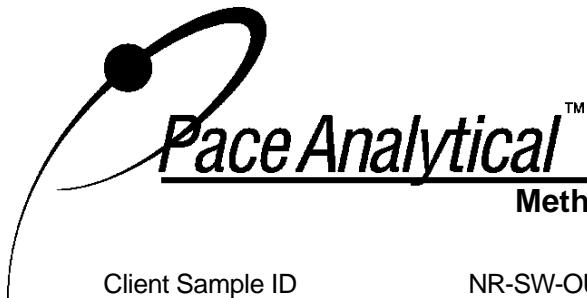
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.0384
2		---	---	ND	---	0.0384
3		---	---	ND	---	0.0384
4		---	---	ND	---	0.0384
5		---	---	ND	---	0.0384
6		---	---	ND	---	0.0384
7		---	---	ND	---	0.0384
8		---	---	ND	---	0.0384
9		---	---	ND	---	0.0384
10		---	---	ND	---	0.0384
11		---	---	ND	---	0.376
12	12/13	---	---	ND	---	0.0768
13	12/13	---	---	ND	---	0.0768
14		---	---	ND	---	0.0384
15		---	---	ND	---	0.0507
16		---	---	ND	---	0.0384
17		---	---	ND	---	0.0384
18	18/30	---	---	ND	---	0.0768
19		---	---	ND	---	0.0384
20	20/28	---	---	ND	---	0.198
21	21/33	---	---	ND	---	0.207
22		---	---	ND	---	0.146
23		---	---	ND	---	0.0384
24		---	---	ND	---	0.0384
25		---	---	ND	---	0.0384
26	26/29	---	---	ND	---	0.0768
27		---	---	ND	---	0.0384
28	20/28	---	---	ND	---	0.198
29	26/29	---	---	ND	---	0.0768
30	18/30	---	---	ND	---	0.0768
31		---	---	ND	---	0.200
32		---	---	ND	---	0.0384
33	21/33	---	---	ND	---	0.207
34		---	---	ND	---	0.0384
35		---	---	ND	---	0.0384
36		---	---	ND	---	0.0384
37		---	---	ND	---	0.0814
38		---	---	ND	---	0.0384
39		---	---	ND	---	0.0384
40	40/41/71	---	---	ND	---	0.115
41	40/41/71	---	---	ND	---	0.115
42		27.527	0.82	0.0514	---	0.0384
43	43/73	---	---	ND	---	0.0768
44	44/47/65	27.017	0.78	0.240	---	0.115

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
 * = See Discussion
 X = Outside QC Limits
 RT = Retention Time
 I = Interference
 ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-OU4-202305
 Lab Sample ID 40262368006
 Filename P230529B_07

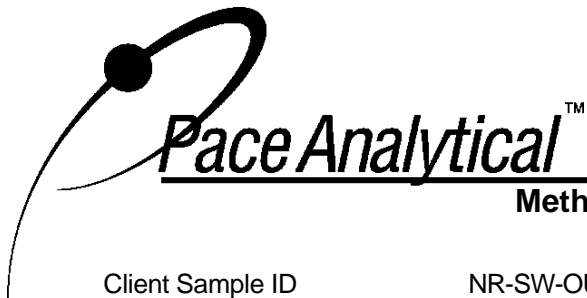
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
45	45/51	---	---	ND	---	0.0768
46		---	---	ND	---	0.0384
47	44/47/65	27.017	0.78	(0.240)	---	0.115
48		---	---	ND	---	0.0384
49	49/69	26.413	0.77	0.264	---	0.0768
50	50/53	23.195	0.77	0.0807	---	0.0768
51	45/51	---	---	ND	---	0.0768
52		25.872	0.76	0.277	---	0.198
53	50/53	23.195	0.77	(0.0807)	---	0.0768
54		---	---	ND	---	0.0384
55		---	---	ND	---	0.0384
56		---	---	ND	---	0.0384
57		---	---	ND	---	0.0384
58		---	---	ND	---	0.0384
59	59/62/75	---	---	ND	---	0.115
60		---	---	ND	---	0.0384
61	61/70/74/76	---	---	ND	---	0.154
62	59/62/75	---	---	ND	---	0.115
63		---	---	ND	---	0.0384
64		---	---	ND	---	0.0384
65	44/47/65	27.017	0.78	(0.240)	---	0.115
66		---	---	ND	---	0.0906
67		---	---	ND	---	0.0384
68		---	---	ND	---	0.0384
69	49/69	26.413	0.77	(0.264)	---	0.0768
70	61/70/74/76	---	---	ND	---	0.154
71	40/41/71	---	---	ND	---	0.115
72		---	---	ND	---	0.0384
73	43/73	---	---	ND	---	0.0768
74	61/70/74/76	---	---	ND	---	0.154
75	59/62/75	---	---	ND	---	0.115
76	61/70/74/76	---	---	ND	---	0.154
77		---	---	ND	---	0.0384
78		---	---	ND	---	0.0384
79		---	---	ND	---	0.0384
80		---	---	ND	---	0.0384
81		---	---	ND	---	0.0384
82		---	---	ND	---	0.0384
83		---	---	ND	---	0.0384
84		31.247	1.69	0.0812	---	0.0384
85	85/116/117	---	---	ND	---	0.115
86	86/87/97/108/119/125	---	---	ND	---	0.230
87	86/87/97/108/119/125	---	---	ND	---	0.230
88	88/91	---	---	ND	---	0.0768

Conc = Concentration
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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-OU4-202305
 Lab Sample ID 40262368006
 Filename P230529B_07

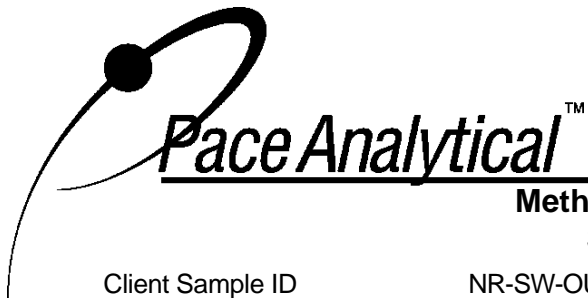
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
89		---	---	ND	---	0.0384
90	90/101/113	33.212	1.49	0.328	---	0.115
91	88/91	---	---	ND	---	0.0768
92		32.608	1.42	0.0989	---	0.0384
93	93/98/100/102	---	---	ND	---	0.154
94		---	---	ND	---	0.0384
95		30.087	1.48	0.255	---	0.107
96		---	---	ND	---	0.0384
97	86/87/97/108/119/125	---	---	ND	---	0.230
98	93/98/100/102	---	---	ND	---	0.154
99		33.831	1.65	0.164	---	0.0384
100	93/98/100/102	---	---	ND	---	0.154
101	90/101/113	33.212	1.49	(0.328)	---	0.115
102	93/98/100/102	---	---	ND	---	0.154
103		---	---	ND	---	0.0384
104		---	---	ND	---	0.0384
105		39.590	1.51	0.0623	---	0.0384
106		---	---	ND	---	0.0384
107	107/124	---	---	ND	---	0.0768
108	86/87/97/108/119/125	---	---	ND	---	0.230
109		---	---	ND	---	0.0384
110	110/115	35.269	1.53	0.422	---	0.0768
111		---	---	ND	---	0.0384
112		---	---	ND	---	0.0384
113	90/101/113	33.212	1.49	(0.328)	---	0.115
114		---	---	ND	---	0.0384
115	110/115	35.269	1.53	(0.422)	---	0.0768
116	85/116/117	---	---	ND	---	0.115
117	85/116/117	---	---	ND	---	0.115
118		38.382	1.59	0.203	---	0.0599
119	86/87/97/108/119/125	---	---	ND	---	0.230
120		---	---	ND	---	0.0384
121		---	---	ND	---	0.0384
122		---	---	ND	---	0.0384
123		---	---	ND	---	0.0384
124	107/124	---	---	ND	---	0.0768
125	86/87/97/108/119/125	---	---	ND	---	0.230
126		---	---	ND	---	0.0384
127		---	---	ND	---	0.0384
128	128/166	---	---	ND	---	0.0768
129	129/138/163	41.602	1.25	0.230	---	0.115
130		---	---	ND	---	0.0384
131		---	---	ND	---	0.0384
132		38.483	1.19	0.0851	---	0.0384

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
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 R = Recovery outside of Method 1668A control limits
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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-OU4-202305
 Lab Sample ID 40262368006
 Filename P230529B_07

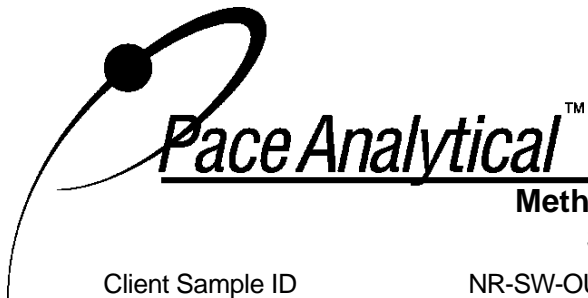
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
133		---	---	ND	---	0.0384
134	134/143	---	---	ND	---	0.0768
135	135/151	36.229	1.20	0.0868	---	0.0768
136		---	---	ND	---	0.0384
137		---	---	ND	---	0.0384
138	129/138/163	41.602	1.25	(0.230)	---	0.115
139	139/140	---	---	ND	---	0.0768
140	139/140	---	---	ND	---	0.0768
141		---	---	ND	---	0.0384
142		---	---	ND	---	0.0384
143	134/143	---	---	ND	---	0.0768
144		---	---	ND	---	0.0384
145		---	---	ND	---	0.0384
146		---	---	ND	---	0.0384
147	147/149	37.192	1.31	0.183	---	0.0768
148		---	---	ND	---	0.0384
149	147/149	37.192	1.31	(0.183)	---	0.0768
150		---	---	ND	---	0.0384
151	135/151	36.229	1.20	(0.0868)	---	0.0768
152		---	---	ND	---	0.0384
153	153/168	40.328	1.23	0.175	---	0.0768
154		---	---	ND	---	0.0384
155		---	---	ND	---	0.0384
156	156/157	---	---	ND	---	0.0768
157	156/157	---	---	ND	---	0.0768
158		---	---	ND	---	0.0384
159		---	---	ND	---	0.0384
160		---	---	ND	---	0.0384
161		---	---	ND	---	0.0384
162		---	---	ND	---	0.0384
163	129/138/163	41.602	1.25	(0.230)	---	0.115
164		---	---	ND	---	0.0384
165		---	---	ND	---	0.0384
166	128/166	---	---	ND	---	0.0768
167		---	---	ND	---	0.0384
168	153/168	40.328	1.23	(0.175)	---	0.0768
169		---	---	ND	---	0.0384
170		---	---	ND	---	0.0384
171	171/173	---	---	ND	---	0.0768
172		---	---	ND	---	0.0384
173	171/173	---	---	ND	---	0.0768
174		---	---	ND	---	0.0384
175		---	---	ND	---	0.0384
176		---	---	ND	---	0.0384

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
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 RT = Retention Time
 I = Interference
 ng's = Nanograms

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-OU4-202305
 Lab Sample ID 40262368006
 Filename P230529B_07

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
177		---	---	ND	---	0.0384
178		---	---	ND	---	0.0384
179		---	---	ND	---	0.0384
180	180/193	---	---	ND	---	0.0768
181		---	---	ND	---	0.0384
182		---	---	ND	---	0.0384
183	183/185	---	---	ND	---	0.0768
184		---	---	ND	---	0.0384
185	183/185	---	---	ND	---	0.0768
186		---	---	ND	---	0.0384
187		---	---	ND	---	0.0384
188		---	---	ND	---	0.0384
189		---	---	ND	---	0.0384
190		---	---	ND	---	0.0384
191		---	---	ND	---	0.0384
192		---	---	ND	---	0.0384
193	180/193	---	---	ND	---	0.0768
194		---	---	ND	---	0.0384
195		---	---	ND	---	0.0384
196		---	---	ND	---	0.0384
197	197/200	---	---	ND	---	0.0768
198	198/199	---	---	ND	---	0.0768
199	198/199	---	---	ND	---	0.0768
200	197/200	---	---	ND	---	0.0768
201		---	---	ND	---	0.0384
202		---	---	ND	---	0.0384
203		---	---	ND	---	0.0384
204		---	---	ND	---	0.0384
205		---	---	ND	---	0.0384
206		---	---	ND	---	0.0384
207		---	---	ND	---	0.0384
208		---	---	ND	---	0.0384
209		---	---	ND	---	0.0384

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
 * = See Discussion
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REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-OU4-202305
Lab Sample ID 40262368006
Filename P230529B_07

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	0.914
Total Pentachloro Biphenyls	1.62
Total Hexachloro Biphenyls	0.760
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	3.29

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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Method 1668A Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-BKG1-202305		
Lab Sample ID	40262368007		
Filename	P230529B_08		
Injected By	BAL		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	05/16/2023 14:10
ICAL ID	P230529B02	Received	05/20/2023 18:45
CCal Filename(s)	P230529B_01	Extracted	05/23/2023 12:15
Method Blank ID	BLANK-106282	Analyzed	05/29/2023 23:25

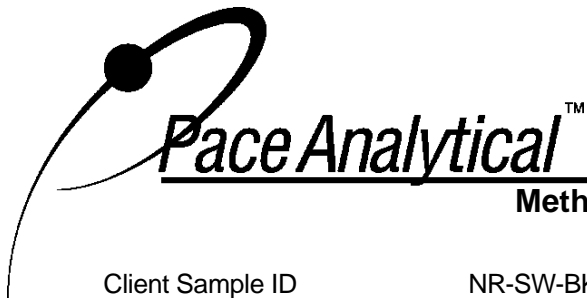
PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.182	2.99	2.0	1.67	84
13C-4-MoCB	3	12.998	2.96	2.0	1.80	90
13C-2,2'-DiCB	4	13.303	1.48	2.0	2.48	124
13C-4,4'-DiCB	15	20.404	1.57	2.0	1.85	93
13C-2,2',6-TrCB	19	17.143	1.03	2.0	2.54	127
13C-3,4,4'-TrCB	37	28.223	1.07	2.0	1.29	65
13C-2,2',6,6'-TeCB	54	20.766	0.78	2.0	1.65	82
13C-3,4,4',5-TeCB	81	35.377	0.78	2.0	1.40	70
13C-3,3',4,4'-TeCB	77	35.950	0.75	2.0	1.34	67
13C-2,2',4,6,6'-PeCB	104	26.908	1.52	2.0	1.77	88
13C-2,3,3',4,4'-PeCB	105	39.572	1.55	2.0	1.15	57
13C-2,3,4,4',5-PeCB	114	38.918	1.51	2.0	1.11	55
13C-2,3',4,4',5-PeCB	118	38.365	1.59	2.0	1.15	57
13C-2,3',4,4',5'-PeCB	123	38.030	1.54	2.0	1.14	57
13C-3,3',4,4',5-PeCB	126	42.742	1.58	2.0	0.973	49
13C-2,2',4,4',6,6'-HxCB	155	32.995	1.25	2.0	2.32	116
13C-HxCB (156/157)	156/157	45.816	1.27	4.0	2.24	56
13C-2,3',4,4',5,5'-HxCB	167	44.659	1.26	2.0	1.16	58
13C-3,3',4,4',5,5'-HxCB	169	49.119	1.26	2.0	1.25	63
13C-2,2',3,4',5,6,6'-HpCB	188	38.918	1.03	2.0	2.49	125
13C-2,3,3',4,4',5,5'-HpCB	189	51.697	1.04	2.0	1.51	75
13C-2,2',3,3',5,5',6,6'-OcCB	202	44.407	0.89	2.0	1.91	95
13C-2,3,3',4,4',5,5',6-OcCB	205	54.305	0.88	2.0	1.81	90
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.051	0.79	2.0	2.02	101
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.223	0.78	2.0	2.27	113
13C-DeCB	209	57.689	0.71	2.0	2.08	104
CleanupStandards						
13C-2,4,4'-TrCB	28	23.860	1.04	2.0	1.32	66
13C-2,3,3',5,5'-PeCB	111	35.996	1.55	2.0	1.60	80
13C-2,2',3,3',5,5',6-HpCB	178	42.037	1.07	2.0	1.90	95
Recovery Standards						
13C-2,5-DiCB	9	15.773	1.54	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.856	0.79	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.196	1.56	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.568	1.22	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	53.810	0.88	2.0	NA	NA

R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-BKG1-202305
 Lab Sample ID 40262368007
 Filename P230529B_08

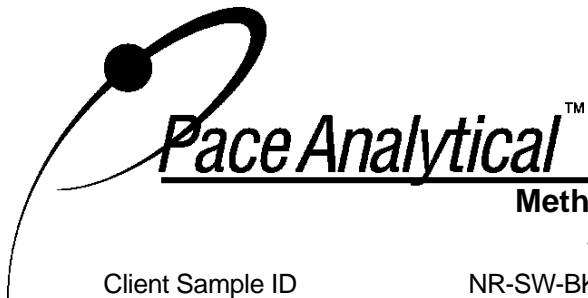
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.0387
2		---	---	ND	---	0.0387
3		---	---	ND	---	0.0387
4		---	---	ND	---	0.0387
5		---	---	ND	---	0.0387
6		---	---	ND	---	0.0387
7		---	---	ND	---	0.0387
8		---	---	ND	---	0.0387
9		---	---	ND	---	0.0387
10		---	---	ND	---	0.0387
11		---	---	ND	---	0.379
12	12/13	---	---	ND	---	0.0774
13	12/13	---	---	ND	---	0.0774
14		---	---	ND	---	0.0387
15		---	---	ND	---	0.0511
16		---	---	ND	---	0.0387
17		---	---	ND	---	0.0387
18	18/30	---	---	ND	---	0.0774
19		---	---	ND	---	0.0387
20	20/28	---	---	ND	---	0.200
21	21/33	---	---	ND	---	0.209
22		---	---	ND	---	0.147
23		---	---	ND	---	0.0387
24		---	---	ND	---	0.0387
25		---	---	ND	---	0.0387
26	26/29	---	---	ND	---	0.0774
27		---	---	ND	---	0.0387
28	20/28	---	---	ND	---	0.200
29	26/29	---	---	ND	---	0.0774
30	18/30	---	---	ND	---	0.0774
31		---	---	ND	---	0.201
32		---	---	ND	---	0.0387
33	21/33	---	---	ND	---	0.209
34		---	---	ND	---	0.0387
35		---	---	ND	---	0.0387
36		---	---	ND	---	0.0387
37		---	---	ND	---	0.0820
38		---	---	ND	---	0.0387
39		---	---	ND	---	0.0387
40	40/41/71	---	---	ND	---	0.116
41	40/41/71	---	---	ND	---	0.116
42		---	---	ND	---	0.0387
43	43/73	---	---	ND	---	0.0774
44	44/47/65	27.032	0.81	0.117	---	0.116

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
 * = See Discussion
 X = Outside QC Limits
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 ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-BKG1-202305
 Lab Sample ID 40262368007
 Filename P230529B_08

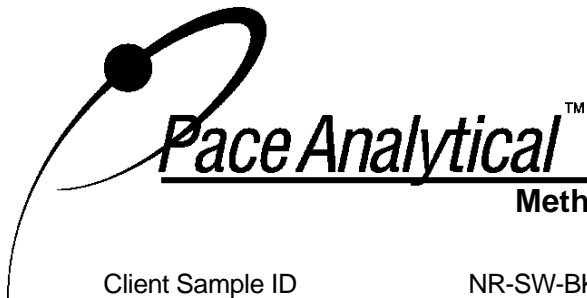
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
45	45/51	---	---	ND	---	0.0774
46		---	---	ND	---	0.0387
47	44/47/65	27.032	0.81	(0.117)	---	0.116
48		---	---	ND	---	0.0387
49	49/69	26.428	0.79	0.111	---	0.0774
50	50/53	---	---	ND	---	0.0774
51	45/51	---	---	ND	---	0.0774
52		---	---	ND	---	0.200
53	50/53	---	---	ND	---	0.0774
54		---	---	ND	---	0.0387
55		---	---	ND	---	0.0387
56		---	---	ND	---	0.0387
57		---	---	ND	---	0.0387
58		---	---	ND	---	0.0387
59	59/62/75	---	---	ND	---	0.116
60		---	---	ND	---	0.0387
61	61/70/74/76	---	---	ND	---	0.155
62	59/62/75	---	---	ND	---	0.116
63		---	---	ND	---	0.0387
64		---	---	ND	---	0.0387
65	44/47/65	27.032	0.81	(0.117)	---	0.116
66		---	---	ND	---	0.0913
67		---	---	ND	---	0.0387
68		---	---	ND	---	0.0387
69	49/69	26.428	0.79	(0.111)	---	0.0774
70	61/70/74/76	---	---	ND	---	0.155
71	40/41/71	---	---	ND	---	0.116
72		---	---	ND	---	0.0387
73	43/73	---	---	ND	---	0.0774
74	61/70/74/76	---	---	ND	---	0.155
75	59/62/75	---	---	ND	---	0.116
76	61/70/74/76	---	---	ND	---	0.155
77		---	---	ND	---	0.0387
78		---	---	ND	---	0.0387
79		---	---	ND	---	0.0387
80		---	---	ND	---	0.0387
81		---	---	ND	---	0.0387
82		---	---	ND	---	0.0387
83		---	---	ND	---	0.0387
84		---	---	ND	---	0.0387
85	85/116/117	---	---	ND	---	0.116
86	86/87/97/108/119/125	---	---	ND	---	0.232
87	86/87/97/108/119/125	---	---	ND	---	0.232
88	88/91	---	---	ND	---	0.0774

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
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ND = Not Detected
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REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-BKG1-202305
 Lab Sample ID 40262368007
 Filename P230529B_08

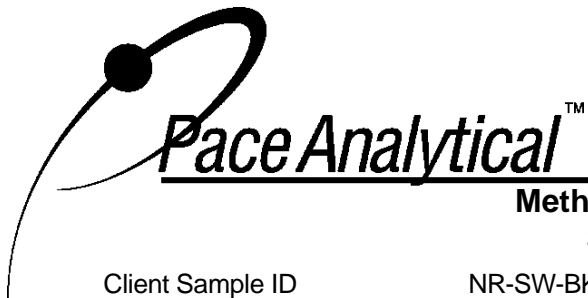
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
89		---	---	ND	---	0.0387
90	90/101/113	33.227	1.46	0.124	---	0.116
91	88/91	---	---	ND	---	0.0774
92		---	---	ND	---	0.0387
93	93/98/100/102	---	---	ND	---	0.155
94		---	---	ND	---	0.0387
95		---	---	ND	---	0.108
96		---	---	ND	---	0.0387
97	86/87/97/108/119/125	---	---	ND	---	0.232
98	93/98/100/102	---	---	ND	---	0.155
99		33.830	1.43	0.0663	---	0.0387
100	93/98/100/102	---	---	ND	---	0.155
101	90/101/113	33.227	1.46	(0.124)	---	0.116
102	93/98/100/102	---	---	ND	---	0.155
103		---	---	ND	---	0.0387
104		---	---	ND	---	0.0387
105		---	---	ND	---	0.0387
106		---	---	ND	---	0.0387
107	107/124	---	---	ND	---	0.0774
108	86/87/97/108/119/125	---	---	ND	---	0.232
109		---	---	ND	---	0.0387
110	110/115	35.269	1.53	0.161	---	0.0774
111		---	---	ND	---	0.0387
112		---	---	ND	---	0.0387
113	90/101/113	33.227	1.46	(0.124)	---	0.116
114		---	---	ND	---	0.0387
115	110/115	35.269	1.53	(0.161)	---	0.0774
116	85/116/117	---	---	ND	---	0.116
117	85/116/117	---	---	ND	---	0.116
118		38.382	1.46	0.0871	---	0.0604
119	86/87/97/108/119/125	---	---	ND	---	0.232
120		---	---	ND	---	0.0387
121		---	---	ND	---	0.0387
122		---	---	ND	---	0.0387
123		---	---	ND	---	0.0387
124	107/124	---	---	ND	---	0.0774
125	86/87/97/108/119/125	---	---	ND	---	0.232
126		---	---	ND	---	0.0387
127		---	---	ND	---	0.0387
128	128/166	---	---	ND	---	0.0774
129	129/138/163	---	---	ND	---	0.116
130		---	---	ND	---	0.0387
131		---	---	ND	---	0.0387
132		---	---	ND	---	0.0387

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
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 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-BKG1-202305
 Lab Sample ID 40262368007
 Filename P230529B_08

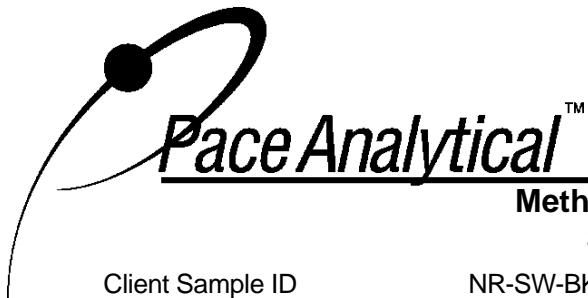
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
133		---	---	ND	---	0.0387
134	134/143	---	---	ND	---	0.0774
135	135/151	---	---	ND	---	0.0774
136		---	---	ND	---	0.0387
137		---	---	ND	---	0.0387
138	129/138/163	---	---	ND	---	0.116
139	139/140	---	---	ND	---	0.0774
140	139/140	---	---	ND	---	0.0774
141		---	---	ND	---	0.0387
142		---	---	ND	---	0.0387
143	134/143	---	---	ND	---	0.0774
144		---	---	ND	---	0.0387
145		---	---	ND	---	0.0387
146		---	---	ND	---	0.0387
147	147/149	37.208	1.31	0.0795	---	0.0774
148		---	---	ND	---	0.0387
149	147/149	37.208	1.31	(0.0795)	---	0.0774
150		---	---	ND	---	0.0387
151	135/151	---	---	ND	---	0.0774
152		---	---	ND	---	0.0387
153	153/168	---	---	ND	---	0.0774
154		---	---	ND	---	0.0387
155		---	---	ND	---	0.0387
156	156/157	---	---	ND	---	0.0774
157	156/157	---	---	ND	---	0.0774
158		---	---	ND	---	0.0387
159		---	---	ND	---	0.0387
160		---	---	ND	---	0.0387
161		---	---	ND	---	0.0387
162		---	---	ND	---	0.0387
163	129/138/163	---	---	ND	---	0.116
164		---	---	ND	---	0.0387
165		---	---	ND	---	0.0387
166	128/166	---	---	ND	---	0.0774
167		---	---	ND	---	0.0387
168	153/168	---	---	ND	---	0.0774
169		---	---	ND	---	0.0387
170		---	---	ND	---	0.0387
171	171/173	---	---	ND	---	0.0774
172		---	---	ND	---	0.0387
173	171/173	---	---	ND	---	0.0774
174		---	---	ND	---	0.0387
175		---	---	ND	---	0.0387
176		---	---	ND	---	0.0387

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-BKG1-202305
 Lab Sample ID 40262368007
 Filename P230529B_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
177		---	---	ND	---	0.0387
178		---	---	ND	---	0.0387
179		---	---	ND	---	0.0387
180	180/193	---	---	ND	---	0.0774
181		---	---	ND	---	0.0387
182		---	---	ND	---	0.0387
183	183/185	---	---	ND	---	0.0774
184		---	---	ND	---	0.0387
185	183/185	---	---	ND	---	0.0774
186		---	---	ND	---	0.0387
187		---	---	ND	---	0.0387
188		---	---	ND	---	0.0387
189		---	---	ND	---	0.0387
190		---	---	ND	---	0.0387
191		---	---	ND	---	0.0387
192		---	---	ND	---	0.0387
193	180/193	---	---	ND	---	0.0774
194		---	---	ND	---	0.0387
195		---	---	ND	---	0.0387
196		---	---	ND	---	0.0387
197	197/200	---	---	ND	---	0.0774
198	198/199	---	---	ND	---	0.0774
199	198/199	---	---	ND	---	0.0774
200	197/200	---	---	ND	---	0.0774
201		---	---	ND	---	0.0387
202		---	---	ND	---	0.0387
203		---	---	ND	---	0.0387
204		---	---	ND	---	0.0387
205		---	---	ND	---	0.0387
206		---	---	ND	---	0.0387
207		---	---	ND	---	0.0387
208		---	---	ND	---	0.0387
209		---	---	ND	---	0.0387

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
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REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

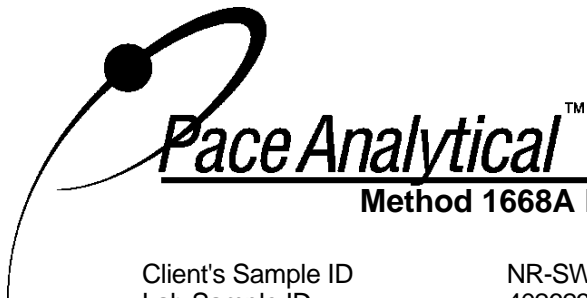
Client Sample ID NR-SW-BKG1-202305
Lab Sample ID 40262368007
Filename P230529B_08

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	0.228
Total Pentachloro Biphenyls	0.439
Total Hexachloro Biphenyls	0.0795
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	0.746

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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Method 1668A Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-OU3-202305		
Lab Sample ID	40262368008		
Filename	P230529B_09		
Injected By	BAL		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	05/16/2023 15:10
ICAL ID	P230529B02	Received	05/20/2023 18:45
CCal Filename(s)	P230529B_01	Extracted	05/23/2023 12:15
Method Blank ID	BLANK-106282	Analyzed	05/30/2023 00:28

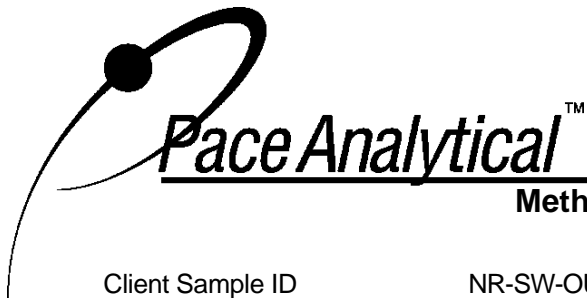
PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.137	2.99	2.0	1.48	74
13C-4-MoCB	3	12.964	3.09	2.0	1.61	80
13C-2,2'-DiCB	4	13.269	1.56	2.0	2.23	112
13C-4,4'-DiCB	15	20.404	1.56	2.0	1.80	90
13C-2,2',6-TrCB	19	17.122	1.02	2.0	2.23	112
13C-3,4,4'-TrCB	37	28.208	1.01	2.0	1.32	66
13C-2,2',6,6'-TeCB	54	20.751	0.78	2.0	1.52	76
13C-3,4,4',5-TeCB	81	35.362	0.79	2.0	1.38	69
13C-3,3',4,4'-TeCB	77	35.934	0.80	2.0	1.32	66
13C-2,2',4,6,6'-PeCB	104	26.909	1.58	2.0	1.82	91
13C-2,3,3',4,4'-PeCB	105	39.556	1.62	2.0	1.09	55
13C-2,3,4,4',5-PeCB	114	38.918	1.57	2.0	1.11	56
13C-2,3',4,4',5-PeCB	118	38.348	1.58	2.0	1.12	56
13C-2,3',4,4',5'-PeCB	123	38.013	1.56	2.0	1.11	55
13C-3,3',4,4',5-PeCB	126	42.725	1.50	2.0	0.910	46
13C-2,2',4,4',6,6'-HxCB	155	32.979	1.23	2.0	2.47	124
13C-HxCB (156/157)	156/157	45.816	1.23	4.0	2.22	55
13C-2,3',4,4',5,5'-HxCB	167	44.642	1.27	2.0	1.17	58
13C-3,3',4,4',5,5'-HxCB	169	49.103	1.24	2.0	1.25	62
13C-2,2',3,4',5,6,6'-HpCB	188	38.918	1.02	2.0	2.33	116
13C-2,3,3',4,4',5,5'-HpCB	189	51.676	1.04	2.0	1.49	74
13C-2,2',3,3',5,5',6,6'-OxCB	202	44.407	0.91	2.0	1.71	85
13C-2,3,3',4,4',5,5',6-OxCB	205	54.284	0.90	2.0	1.80	90
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.051	0.80	2.0	2.04	102
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.201	0.80	2.0	2.18	109
13C-DeCB	209	57.689	0.74	2.0	2.11	105
CleanupStandards						
13C-2,4,4'-TrCB	28	23.845	1.04	2.0	1.28	64
13C-2,3,3',5,5'-PeCB	111	35.981	1.53	2.0	1.57	78
13C-2,2',3,3',5,5',6-HpCB	178	42.021	1.06	2.0	1.94	97
Recovery Standards						
13C-2,5-DiCB	9	15.751	1.56	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.841	0.78	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.181	1.53	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.568	1.25	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OxCB	194	53.810	0.90	2.0	NA	NA

R = Recovery outside of Method 1668A control limits
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REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-OU3-202305
 Lab Sample ID 40262368008
 Filename P230529B_09

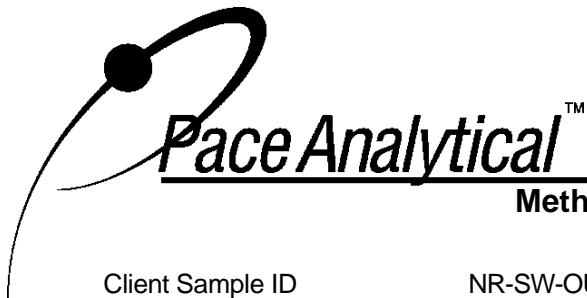
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		10.159	2.89	0.225	---	0.0387
2		---	---	ND	---	0.0387
3		---	---	ND	---	0.0387
4		13.292	1.43	1.24	---	0.0387
5		---	---	ND	---	0.0387
6		16.259	1.51	0.175	---	0.0387
7		15.983	1.53	0.0738	---	0.0387
8		16.790	1.40	0.0883	---	0.0387
9		---	---	ND	---	0.0387
10		---	---	ND	---	0.0387
11		---	---	ND	---	0.379
12	12/13	---	---	ND	---	0.0774
13	12/13	---	---	ND	---	0.0774
14		---	---	ND	---	0.0387
15		20.404	1.50	0.108	---	0.0511
16		20.360	0.96	0.0436	---	0.0387
17		19.851	0.99	1.08	---	0.0387
18	18/30	19.365	1.01	0.275	---	0.0774
19		17.143	1.03	0.935	---	0.0387
20	20/28	23.861	0.99	0.450	---	0.200
21	21/33	---	---	ND	---	0.209
22		---	---	ND	---	0.147
23		---	---	ND	---	0.0387
24		---	---	ND	---	0.0387
25		23.180	1.03	0.641	---	0.0387
26	26/29	22.917	1.05	1.22	---	0.0774
27		20.084	1.00	0.130	---	0.0387
28	20/28	23.861	0.99	(0.450)	---	0.200
29	26/29	22.917	1.05	(1.22)	---	0.0774
30	18/30	19.365	1.01	(0.275)	---	0.0774
31		23.536	1.02	0.230	---	0.201
32		20.968	1.02	0.444	---	0.0387
33	21/33	---	---	ND	---	0.209
34		---	---	ND	---	0.0387
35		---	---	ND	---	0.0387
36		---	---	ND	---	0.0387
37		---	---	ND	---	0.0821
38		---	---	ND	---	0.0387
39		---	---	ND	---	0.0387
40	40/41/71	28.069	0.77	0.913	---	0.116
41	40/41/71	28.069	0.77	(0.913)	---	0.116
42		27.527	0.79	0.509	---	0.0387
43	43/73	26.042	0.74	0.172	---	0.0774
44	44/47/65	27.017	0.77	2.73	---	0.116

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-OU3-202305
 Lab Sample ID 40262368008
 Filename P230529B_09

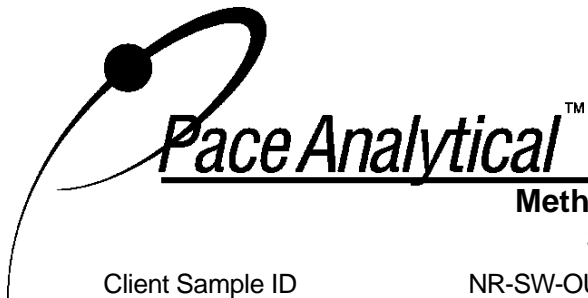
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
45	45/51	24.046	0.75	0.725	---	0.0774
46		24.294	0.74	0.224	---	0.0387
47	44/47/65	27.017	0.77	(2.73)	---	0.116
48		---	---	ND	---	0.0387
49	49/69	26.413	0.78	3.84	---	0.0774
50	50/53	23.211	0.77	0.982	---	0.0774
51	45/51	24.046	0.75	(0.725)	---	0.0774
52		25.872	0.78	5.10	---	0.200
53	50/53	23.211	0.77	(0.982)	---	0.0774
54		20.767	0.79	0.0849	---	0.0387
55		---	---	ND	---	0.0387
56		32.097	0.73	0.0926	---	0.0387
57		29.978	0.77	0.173	---	0.0387
58		---	---	ND	---	0.0387
59	59/62/75	27.388	0.75	0.163	---	0.116
60		---	---	ND	---	0.0387
61	61/70/74/76	30.999	0.77	0.865	---	0.155
62	59/62/75	27.388	0.75	(0.163)	---	0.116
63		30.690	0.84	0.0958	---	0.0387
64		28.301	0.78	0.323	---	0.0387
65	44/47/65	27.017	0.77	(2.73)	---	0.116
66		31.386	0.73	0.636	---	0.0914
67		30.396	0.80	0.0627	---	0.0387
68		29.514	0.87	0.128	---	0.0387
69	49/69	26.413	0.78	(3.84)	---	0.0774
70	61/70/74/76	30.999	0.77	(0.865)	---	0.155
71	40/41/71	28.069	0.77	(0.913)	---	0.116
72		29.205	0.76	0.178	---	0.0387
73	43/73	26.042	0.74	(0.172)	---	0.0774
74	61/70/74/76	30.999	0.77	(0.865)	---	0.155
75	59/62/75	27.388	0.75	(0.163)	---	0.116
76	61/70/74/76	30.999	0.77	(0.865)	---	0.155
77		---	---	ND	---	0.0387
78		---	---	ND	---	0.0387
79		---	---	ND	---	0.0387
80		---	---	ND	---	0.0387
81		---	---	ND	---	0.0387
82		35.594	1.55	0.126	---	0.0387
83		33.691	1.51	0.345	---	0.0387
84		31.247	1.50	0.864	---	0.0387
85	85/116/117	35.099	1.60	0.446	---	0.116
86	86/87/97/108/119/125	34.341	1.51	1.57	---	0.232
87	86/87/97/108/119/125	34.341	1.51	(1.57)	---	0.232
88	88/91	31.030	1.56	0.832	---	0.0774

Conc = Concentration
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REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-OU3-202305
 Lab Sample ID 40262368008
 Filename P230529B_09

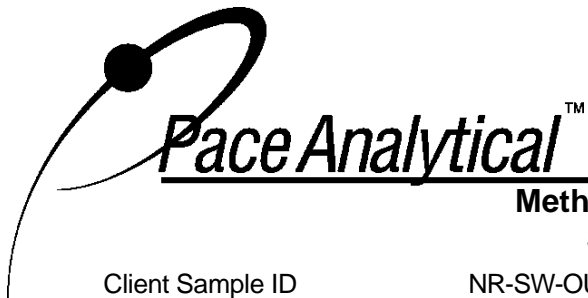
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
89		---	---	ND	---	0.0387
90	90/101/113	33.211	1.53	2.85	---	0.116
91	88/91	31.030	1.56	(0.832)	---	0.0774
92		32.593	1.50	1.52	---	0.0387
93	93/98/100/102	30.365	1.52	0.315	---	0.155
94		29.622	1.56	0.158	---	0.0387
95		30.086	1.53	2.86	---	0.108
96		27.311	1.41	0.0529	---	0.0387
97	86/87/97/108/119/125	34.341	1.51	(1.57)	---	0.232
98	93/98/100/102	30.365	1.52	(0.315)	---	0.155
99		33.830	1.56	1.31	---	0.0387
100	93/98/100/102	30.365	1.52	(0.315)	---	0.155
101	90/101/113	33.211	1.53	(2.85)	---	0.116
102	93/98/100/102	30.365	1.52	(0.315)	---	0.155
103		29.406	1.56	0.122	---	0.0387
104		---	---	ND	---	0.0387
105		39.590	1.51	0.472	---	0.0387
106		---	---	ND	---	0.0387
107	107/124	---	---	ND	---	0.0774
108	86/87/97/108/119/125	34.341	1.51	(1.57)	---	0.232
109		37.929	1.51	0.245	---	0.0387
110	110/115	35.269	1.55	4.27	---	0.0774
111		---	---	ND	---	0.0387
112		---	---	ND	---	0.0387
113	90/101/113	33.211	1.53	(2.85)	---	0.116
114		---	---	ND	---	0.0387
115	110/115	35.269	1.55	(4.27)	---	0.0774
116	85/116/117	35.099	1.60	(0.446)	---	0.116
117	85/116/117	35.099	1.60	(0.446)	---	0.116
118		38.382	1.51	1.58	---	0.0604
119	86/87/97/108/119/125	34.341	1.51	(1.57)	---	0.232
120		---	---	ND	---	0.0387
121		---	---	ND	---	0.0387
122		---	---	ND	---	0.0387
123		---	---	ND	---	0.0387
124	107/124	---	---	ND	---	0.0774
125	86/87/97/108/119/125	34.341	1.51	(1.57)	---	0.232
126		---	---	ND	---	0.0387
127		---	---	ND	---	0.0387
128	128/166	42.876	1.31	0.353	---	0.0774
129	129/138/163	41.585	1.25	1.97	---	0.116
130		40.914	1.24	0.186	---	0.0387
131		---	---	ND	---	0.0387
132		38.483	1.18	0.912	---	0.0387

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REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-OU3-202305
 Lab Sample ID 40262368008
 Filename P230529B_09

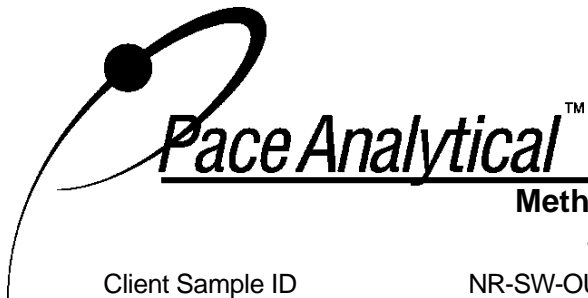
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
133		39.002	1.37	0.0813	---	0.0387
134	134/143	37.410	1.27	0.205	---	0.0774
135	135/151	36.228	1.28	1.02	---	0.0774
136		33.722	1.18	0.401	---	0.0387
137		41.149	1.17	0.0997	---	0.0387
138	129/138/163	41.585	1.25	(1.97)	---	0.116
139	139/140	---	---	ND	---	0.0774
140	139/140	---	---	ND	---	0.0774
141		40.512	1.25	0.226	---	0.0387
142		---	---	ND	---	0.0387
143	134/143	37.410	1.27	(0.205)	---	0.0774
144		36.832	1.17	0.0565	---	0.0387
145		---	---	ND	---	0.0387
146		39.673	1.29	0.368	---	0.0387
147	147/149	37.191	1.22	2.06	---	0.0774
148		---	---	ND	---	0.0387
149	147/149	37.191	1.22	(2.06)	---	0.0774
150		---	---	ND	---	0.0387
151	135/151	36.228	1.28	(1.02)	---	0.0774
152		---	---	ND	---	0.0387
153	153/168	40.311	1.27	1.35	---	0.0774
154		36.538	1.34	0.0743	---	0.0387
155		---	---	ND	---	0.0387
156	156/157	45.833	1.22	0.263	---	0.0774
157	156/157	45.833	1.22	(0.263)	---	0.0774
158		42.004	1.26	0.165	---	0.0387
159		---	---	ND	---	0.0387
160		---	---	ND	---	0.0387
161		---	---	ND	---	0.0387
162		---	---	ND	---	0.0387
163	129/138/163	41.585	1.25	(1.97)	---	0.116
164		41.266	1.27	0.136	---	0.0387
165		---	---	ND	---	0.0387
166	128/166	42.876	1.31	(0.353)	---	0.0774
167		44.659	1.14	0.0842	---	0.0387
168	153/168	40.311	1.27	(1.35)	---	0.0774
169		---	---	ND	---	0.0387
170		48.533	1.03	0.249	---	0.0387
171	171/173	44.961	1.04	0.0829	---	0.0774
172		46.587	0.99	0.0473	---	0.0387
173	171/173	44.961	1.04	(0.0829)	---	0.0774
174		43.837	1.07	0.227	---	0.0387
175		---	---	ND	---	0.0387
176		40.160	1.03	0.0392	---	0.0387

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-OU3-202305
 Lab Sample ID 40262368008
 Filename P230529B_09

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
177		44.290	1.08	0.194	---	0.0387
178		42.038	0.93	0.0913	---	0.0387
179		39.254	1.01	0.153	---	0.0387
180	180/193	47.258	1.01	0.423	---	0.0774
181		---	---	ND	---	0.0387
182		---	---	ND	---	0.0387
183	183/185	43.636	1.05	0.144	---	0.0774
184		---	---	ND	---	0.0387
185	183/185	43.636	1.05	(0.144)	---	0.0774
186		---	---	ND	---	0.0387
187		42.977	1.04	0.349	---	0.0387
188		---	---	ND	---	0.0387
189		---	---	ND	---	0.0387
190		49.069	0.98	0.0539	---	0.0387
191		---	---	ND	---	0.0387
192		---	---	ND	---	0.0387
193	180/193	47.258	1.01	(0.423)	---	0.0774
194		53.831	0.86	0.0966	---	0.0387
195		51.482	1.01	0.0410	---	0.0387
196		49.924	0.89	0.0510	---	0.0387
197	197/200	---	---	ND	---	0.0774
198	198/199	49.237	0.82	0.135	---	0.0774
199	198/199	49.237	0.82	(0.135)	---	0.0774
200	197/200	---	---	ND	---	0.0774
201		---	---	ND	---	0.0387
202		---	---	ND	---	0.0387
203		50.125	0.94	0.0699	---	0.0387
204		---	---	ND	---	0.0387
205		---	---	ND	---	0.0387
206		---	---	ND	---	0.0387
207		---	---	ND	---	0.0387
208		---	---	ND	---	0.0387
209		---	---	ND	---	0.0387

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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-OU3-202305
Lab Sample ID 40262368008
Filename P230529B_09

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	0.225
Total Dichloro Biphenyls	1.68
Total Trichloro Biphenyls	5.45
Total Tetrachloro Biphenyls	18.0
Total Pentachloro Biphenyls	19.9
Total Hexachloro Biphenyls	10.0
Total Heptachloro Biphenyls	2.05
Total Octachloro Biphenyls	0.394
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	57.8

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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Method 1668A Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-OU2-202305		
Lab Sample ID	40262368009		
Filename	P230529B_10		
Injected By	BAL		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	05/16/2023 16:15
ICAL ID	P230529B02	Received	05/20/2023 18:45
CCal Filename(s)	P230529B_01	Extracted	05/23/2023 12:15
Method Blank ID	BLANK-106282	Analyzed	05/30/2023 01:31

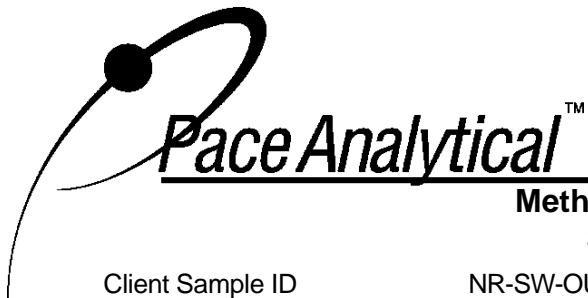
PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.159	2.87	2.0	1.58	79
13C-4-MoCB	3	12.975	3.04	2.0	1.67	84
13C-2,2'-DiCB	4	13.280	1.49	2.0	2.31	115
13C-4,4'-DiCB	15	20.404	1.52	2.0	1.75	87
13C-2,2',6-TrCB	19	17.132	0.98	2.0	2.39	120
13C-3,4,4'-TrCB	37	28.207	1.05	2.0	1.25	63
13C-2,2',6,6'-TeCB	54	20.750	0.80	2.0	1.50	75
13C-3,4,4',5-TeCB	81	35.361	0.77	2.0	1.35	68
13C-3,3',4,4'-TeCB	77	35.934	0.81	2.0	1.28	64
13C-2,2',4,6,6'-PeCB	104	26.908	1.57	2.0	1.82	91
13C-2,3,3',4,4'-PeCB	105	39.572	1.61	2.0	1.07	53
13C-2,3,4,4',5-PeCB	114	38.918	1.56	2.0	1.02	51
13C-2,3',4,4',5-PeCB	118	38.365	1.58	2.0	1.09	54
13C-2,3',4,4',5'-PeCB	123	38.029	1.61	2.0	1.08	54
13C-3,3',4,4',5-PeCB	126	42.742	1.49	2.0	0.901	45
13C-2,2',4,4',6,6'-HxCB	155	32.994	1.28	2.0	2.42	121
13C-HxCB (156/157)	156/157	45.816	1.29	4.0	2.10	52
13C-2,3',4,4',5,5'-HxCB	167	44.642	1.28	2.0	1.13	56
13C-3,3',4,4',5,5'-HxCB	169	49.102	1.27	2.0	1.21	60
13C-2,2',3,4',5,6,6'-HpCB	188	38.918	1.04	2.0	2.28	114
13C-2,3,3',4,4',5,5'-HpCB	189	51.697	1.06	2.0	1.37	69
13C-2,2',3,3',5,5',6,6'-OcCB	202	44.407	0.91	2.0	1.64	82
13C-2,3,3',4,4',5,5',6-OcCB	205	54.283	0.89	2.0	1.74	87
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.050	0.78	2.0	1.96	98
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.201	0.79	2.0	2.04	102
13C-DeCB	209	57.689	0.68	2.0	2.13	106
Cleanup Standards						
13C-2,4,4'-TrCB	28	23.845	1.03	2.0	1.16	58
13C-2,3,3',5,5'-PeCB	111	35.996	1.55	2.0	1.50	75
13C-2,2',3,3',5,5',6-HpCB	178	42.020	1.04	2.0	1.75	87
Recovery Standards						
13C-2,5-DiCB	9	15.762	1.54	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.856	0.80	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.195	1.58	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.568	1.24	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	53.809	0.87	2.0	NA	NA

R = Recovery outside of Method 1668A control limits
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REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-OU2-202305
 Lab Sample ID 40262368009
 Filename P230529B_10

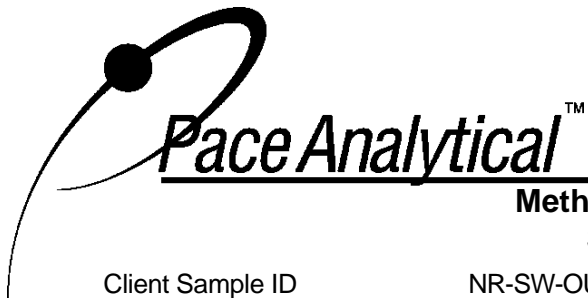
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		10.170	2.90	0.290	---	0.0383
2		---	---	ND	---	0.0383
3		---	---	ND	---	0.0383
4		13.303	1.47	1.81	---	0.0383
5		---	---	ND	---	0.0383
6		16.270	1.47	0.194	---	0.0383
7		15.993	1.58	0.0941	---	0.0383
8		16.800	1.53	0.161	---	0.0383
9		---	---	ND	---	0.0383
10		---	---	ND	---	0.0383
11		---	---	ND	---	0.376
12	12/13	---	---	ND	---	0.0767
13	12/13	---	---	ND	---	0.0767
14		---	---	ND	---	0.0383
15		20.426	1.60	0.244	---	0.0506
16		20.360	1.08	0.0798	---	0.0383
17		19.840	1.03	1.88	---	0.0383
18	18/30	19.365	1.02	0.323	---	0.0767
19		17.154	0.99	1.56	---	0.0383
20	20/28	23.860	1.02	0.753	---	0.198
21	21/33	---	---	ND	---	0.207
22		---	---	ND	---	0.146
23		---	---	ND	---	0.0383
24		---	---	ND	---	0.0383
25		23.195	1.01	0.638	---	0.0383
26	26/29	22.916	0.99	1.24	---	0.0767
27		20.094	1.01	0.103	---	0.0383
28	20/28	23.860	1.02	(0.753)	---	0.198
29	26/29	22.916	0.99	(1.24)	---	0.0767
30	18/30	19.365	1.02	(0.323)	---	0.0767
31		23.535	1.04	0.288	---	0.199
32		20.983	1.01	0.784	---	0.0383
33	21/33	---	---	ND	---	0.207
34		---	---	ND	---	0.0383
35		---	---	ND	---	0.0383
36		---	---	ND	---	0.0383
37		---	---	ND	---	0.0813
38		---	---	ND	---	0.0383
39		---	---	ND	---	0.0383
40	40/41/71	28.068	0.78	1.41	---	0.115
41	40/41/71	28.068	0.78	(1.41)	---	0.115
42		27.527	0.76	0.748	---	0.0383
43	43/73	26.042	0.74	0.237	---	0.0767
44	44/47/65	27.031	0.76	4.27	---	0.115

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-OU2-202305
 Lab Sample ID 40262368009
 Filename P230529B_10

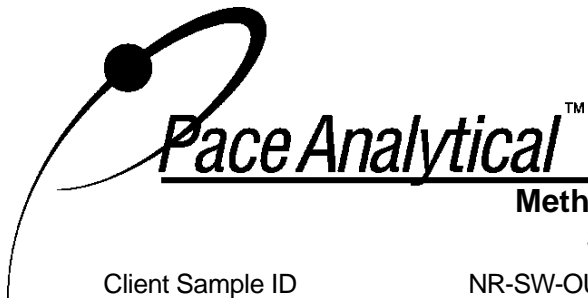
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
45	45/51	24.061	0.78	1.25	---	0.0767
46		24.309	0.79	0.337	---	0.0383
47	44/47/65	27.031	0.76	(4.27)	---	0.115
48		26.722	0.81	0.0395	---	0.0383
49	49/69	26.413	0.76	4.71	---	0.0767
50	50/53	23.210	0.77	1.32	---	0.0767
51	45/51	24.061	0.78	(1.25)	---	0.0767
52		25.871	0.77	6.03	---	0.198
53	50/53	23.210	0.77	(1.32)	---	0.0767
54		20.766	0.74	0.144	---	0.0383
55		---	---	ND	---	0.0383
56		32.082	0.79	0.139	---	0.0383
57		29.962	0.74	0.158	---	0.0383
58		---	---	ND	---	0.0383
59	59/62/75	27.387	0.79	0.216	---	0.115
60		---	---	ND	---	0.0383
61	61/70/74/76	31.014	0.79	1.44	---	0.153
62	59/62/75	27.387	0.79	(0.216)	---	0.115
63		30.689	0.79	0.142	---	0.0383
64		28.300	0.78	0.444	---	0.0383
65	44/47/65	27.031	0.76	(4.27)	---	0.115
66		31.385	0.76	1.11	---	0.0905
67		30.411	0.79	0.0753	---	0.0383
68		29.529	0.78	0.163	---	0.0383
69	49/69	26.413	0.76	(4.71)	---	0.0767
70	61/70/74/76	31.014	0.79	(1.44)	---	0.153
71	40/41/71	28.068	0.78	(1.41)	---	0.115
72		29.204	0.77	0.204	---	0.0383
73	43/73	26.042	0.74	(0.237)	---	0.0767
74	61/70/74/76	31.014	0.79	(1.44)	---	0.153
75	59/62/75	27.387	0.79	(0.216)	---	0.115
76	61/70/74/76	31.014	0.79	(1.44)	---	0.153
77		35.965	0.83	0.0601	---	0.0383
78		---	---	ND	---	0.0383
79		34.371	0.79	0.0621	---	0.0383
80		---	---	ND	---	0.0383
81		---	---	ND	---	0.0383
82		35.609	1.61	0.184	---	0.0383
83		33.706	1.60	0.434	---	0.0383
84		31.246	1.54	1.17	---	0.0383
85	85/116/117	35.114	1.63	0.645	---	0.115
86	86/87/97/108/119/125	34.356	1.57	2.45	---	0.230
87	86/87/97/108/119/125	34.356	1.57	(2.45)	---	0.230
88	88/91	31.029	1.52	1.16	---	0.0767

Conc = Concentration
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REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-OU2-202305
Lab Sample ID 40262368009
Filename P230529B_10

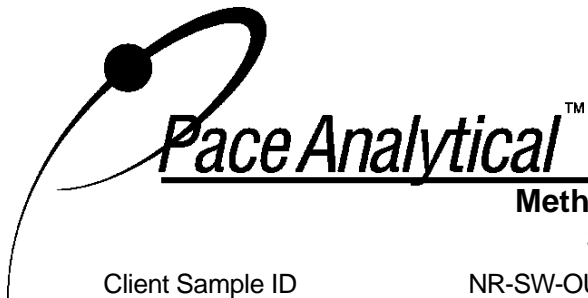
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
89		---	---	ND	---	0.0383
90	90/101/113	33.211	1.57	4.55	---	0.115
91	88/91	31.029	1.52	(1.16)	---	0.0767
92		32.592	1.56	1.89	---	0.0383
93	93/98/100/102	30.349	1.54	0.444	---	0.153
94		29.622	1.56	0.206	---	0.0383
95		30.101	1.50	3.99	---	0.107
96		27.310	1.51	0.0758	---	0.0383
97	86/87/97/108/119/125	34.356	1.57	(2.45)	---	0.230
98	93/98/100/102	30.349	1.54	(0.444)	---	0.153
99		33.845	1.58	2.19	---	0.0383
100	93/98/100/102	30.349	1.54	(0.444)	---	0.153
101	90/101/113	33.211	1.57	(4.55)	---	0.115
102	93/98/100/102	30.349	1.54	(0.444)	---	0.153
103		29.405	1.54	0.147	---	0.0383
104		---	---	ND	---	0.0383
105		39.589	1.48	0.765	---	0.0383
106		---	---	ND	---	0.0383
107	107/124	37.677	1.46	0.107	---	0.0767
108	86/87/97/108/119/125	34.356	1.57	(2.45)	---	0.230
109		37.929	1.58	0.375	---	0.0383
110	110/115	35.269	1.57	6.01	---	0.0767
111		---	---	ND	---	0.0383
112		---	---	ND	---	0.0383
113	90/101/113	33.211	1.57	(4.55)	---	0.115
114		---	---	ND	---	0.0383
115	110/115	35.269	1.57	(6.01)	---	0.0767
116	85/116/117	35.114	1.63	(0.645)	---	0.115
117	85/116/117	35.114	1.63	(0.645)	---	0.115
118		38.381	1.46	2.85	---	0.0598
119	86/87/97/108/119/125	34.356	1.57	(2.45)	---	0.230
120		36.506	1.48	0.0420	---	0.0383
121		---	---	ND	---	0.0383
122		---	---	ND	---	0.0383
123		---	---	ND	---	0.0383
124	107/124	37.677	1.46	(0.107)	---	0.0767
125	86/87/97/108/119/125	34.356	1.57	(2.45)	---	0.230
126		---	---	ND	---	0.0383
127		---	---	ND	---	0.0383
128	128/166	42.893	1.21	0.546	---	0.0767
129	129/138/163	41.601	1.23	2.99	---	0.115
130		40.931	1.22	0.263	---	0.0383
131		38.029	1.31	0.0461	---	0.0383
132		38.499	1.22	1.33	---	0.0383

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REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-OU2-202305
 Lab Sample ID 40262368009
 Filename P230529B_10

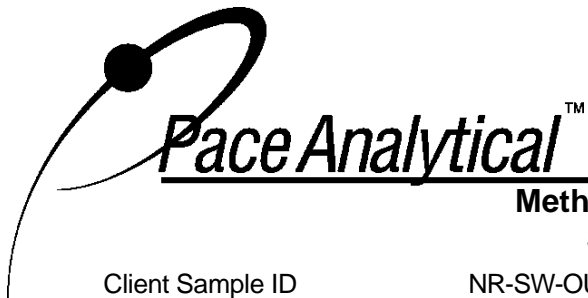
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
133		39.019	1.28	0.103	---	0.0383
134	134/143	37.409	1.11	0.285	---	0.0767
135	135/151	36.228	1.24	1.40	---	0.0767
136		33.722	1.27	0.565	---	0.0383
137		41.148	1.21	0.148	---	0.0383
138	129/138/163	41.601	1.23	(2.99)	---	0.115
139	139/140	37.828	1.18	0.0844	---	0.0767
140	139/140	37.828	1.18	(0.0844)	---	0.0767
141		40.511	1.33	0.382	---	0.0383
142		---	---	ND	---	0.0383
143	134/143	37.409	1.11	(0.285)	---	0.0767
144		36.831	1.27	0.104	---	0.0383
145		---	---	ND	---	0.0383
146		39.689	1.22	0.531	---	0.0383
147	147/149	37.208	1.23	2.92	---	0.0767
148		---	---	ND	---	0.0383
149	147/149	37.208	1.23	(2.92)	---	0.0767
150		---	---	ND	---	0.0383
151	135/151	36.228	1.24	(1.40)	---	0.0767
152		---	---	ND	---	0.0383
153	153/168	40.327	1.28	2.25	---	0.0767
154		36.521	1.28	0.0944	---	0.0383
155		---	---	ND	---	0.0383
156	156/157	45.816	1.26	0.413	---	0.0767
157	156/157	45.816	1.26	(0.413)	---	0.0767
158		42.004	1.22	0.254	---	0.0383
159		---	---	ND	---	0.0383
160		---	---	ND	---	0.0383
161		---	---	ND	---	0.0383
162		---	---	ND	---	0.0383
163	129/138/163	41.601	1.23	(2.99)	---	0.115
164		41.266	1.26	0.225	---	0.0383
165		---	---	ND	---	0.0383
166	128/166	42.893	1.21	(0.546)	---	0.0767
167		44.659	1.23	0.130	---	0.0383
168	153/168	40.327	1.28	(2.25)	---	0.0767
169		---	---	ND	---	0.0383
170		48.532	1.02	0.370	---	0.0383
171	171/173	44.960	1.01	0.128	---	0.0767
172		46.604	1.14	0.0670	---	0.0383
173	171/173	44.960	1.01	(0.128)	---	0.0767
174		43.854	1.05	0.355	---	0.0383
175		---	---	ND	---	0.0383
176		40.193	0.95	0.0563	---	0.0383

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-OU2-202305
 Lab Sample ID 40262368009
 Filename P230529B_10

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
177		44.306	1.05	0.273	---	0.0383
178		42.054	1.08	0.121	---	0.0383
179		39.287	0.97	0.209	---	0.0383
180	180/193	47.257	0.99	0.669	---	0.0767
181		---	---	ND	---	0.0383
182		---	---	ND	---	0.0383
183	183/185	43.619	1.06	0.217	---	0.0767
184		---	---	ND	---	0.0383
185	183/185	43.619	1.06	(0.217)	---	0.0767
186		---	---	ND	---	0.0383
187		42.993	1.06	0.504	---	0.0383
188		---	---	ND	---	0.0383
189		---	---	ND	---	0.0383
190		49.085	1.08	0.0833	---	0.0383
191		---	---	ND	---	0.0383
192		---	---	ND	---	0.0383
193	180/193	47.257	0.99	(0.669)	---	0.0767
194		53.831	0.90	0.140	---	0.0383
195		51.460	0.85	0.0643	---	0.0383
196		49.924	0.93	0.0697	---	0.0383
197	197/200	---	---	ND	---	0.0767
198	198/199	49.270	0.85	0.190	---	0.0767
199	198/199	49.270	0.85	(0.190)	---	0.0767
200	197/200	---	---	ND	---	0.0767
201		---	---	ND	---	0.0383
202		---	---	ND	---	0.0383
203		50.125	0.86	0.0965	---	0.0383
204		---	---	ND	---	0.0383
205		---	---	ND	---	0.0383
206		56.094	0.82	0.0396	---	0.0383
207		---	---	ND	---	0.0383
208		---	---	ND	---	0.0383
209		---	---	ND	---	0.0383

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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

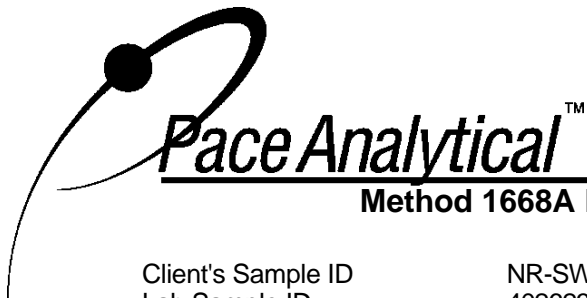
Client Sample ID NR-SW-OU2-202305
Lab Sample ID 40262368009
Filename P230529B_10

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	0.290
Total Dichloro Biphenyls	2.50
Total Trichloro Biphenyls	7.65
Total Tetrachloro Biphenyls	24.7
Total Pentachloro Biphenyls	29.7
Total Hexachloro Biphenyls	15.1
Total Heptachloro Biphenyls	3.05
Total Octachloro Biphenyls	0.560
Total Nonachloro Biphenyls	0.0396
Decachloro Biphenyls	ND
Total PCBs	83.6

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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Method 1668A Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-OU1-202305		
Lab Sample ID	40262368010		
Filename	P230529B_11		
Injected By	BAL		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	05/16/2023 17:00
ICAL ID	P230529B02	Received	05/20/2023 18:45
CCal Filename(s)	P230529B_01	Extracted	05/23/2023 12:15
Method Blank ID	BLANK-106282	Analyzed	05/30/2023 02:34

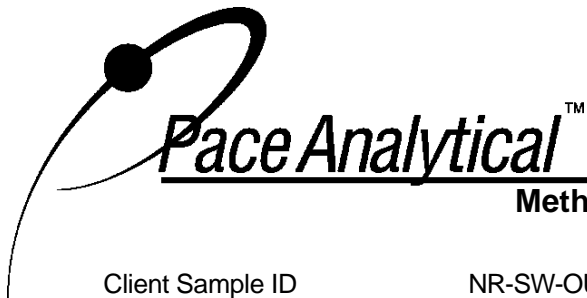
PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.103	3.07	2.0	1.54	77
13C-4-MoCB	3	12.941	3.04	2.0	1.71	86
13C-2,2'-DiCB	4	13.247	1.64	2.0	2.36	118
13C-4,4'-DiCB	15	20.382	1.55	2.0	1.85	92
13C-2,2',6-TrCB	19	17.110	1.02	2.0	2.43	121
13C-3,4,4'-TrCB	37	28.208	1.05	2.0	1.24	62
13C-2,2',6,6'-TeCB	54	20.736	0.80	2.0	1.54	77
13C-3,4,4',5-TeCB	81	35.347	0.78	2.0	1.37	69
13C-3,3',4,4'-TeCB	77	35.935	0.76	2.0	1.36	68
13C-2,2',4,6,6'-PeCB	104	26.893	1.66	2.0	1.69	85
13C-2,3,3',4,4'-PeCB	105	39.573	1.58	2.0	1.05	52
13C-2,3,4,4',5-PeCB	114	38.902	1.55	2.0	1.03	52
13C-2,3',4,4',5-PeCB	118	38.366	1.61	2.0	1.05	53
13C-2,3',4,4',5'-PeCB	123	38.013	1.55	2.0	1.04	52
13C-3,3',4,4',5-PeCB	126	42.726	1.56	2.0	0.871	44
13C-2,2',4,4',6,6'-HxCB	155	32.979	1.24	2.0	2.49	124
13C-HxCB (156/157)	156/157	45.816	1.27	4.0	2.15	54
13C-2,3',4,4',5,5'-HxCB	167	44.642	1.22	2.0	1.13	57
13C-3,3',4,4',5,5'-HxCB	169	49.103	1.26	2.0	1.21	61
13C-2,2',3,4',5,6,6'-HpCB	188	38.919	1.04	2.0	2.40	120
13C-2,3,3',4,4',5,5'-HpCB	189	51.654	1.03	2.0	1.43	72
13C-2,2',3,3',5,5',6,6'-OxCB	202	44.391	0.87	2.0	1.83	91
13C-2,3,3',4,4',5,5',6-OxCB	205	54.284	0.89	2.0	1.73	87
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.051	0.76	2.0	1.99	99
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.202	0.78	2.0	2.17	109
13C-DeCB	209	57.689	0.69	2.0	2.17	108
CleanupStandards						
13C-2,4,4'-TrCB	28	23.830	1.05	2.0	1.18	59
13C-2,3,3',5,5'-PeCB	111	35.981	1.54	2.0	1.45	72
13C-2,2',3,3',5,5',6-HpCB	178	42.021	1.04	2.0	1.80	90
Recovery Standards						
13C-2,5-DiCB	9	15.740	1.59	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.841	0.79	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.181	1.54	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.552	1.25	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OxCB	194	53.810	0.89	2.0	NA	NA

R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

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X = Outside QC Limits
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ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-OU1-202305
 Lab Sample ID 40262368010
 Filename P230529B_11

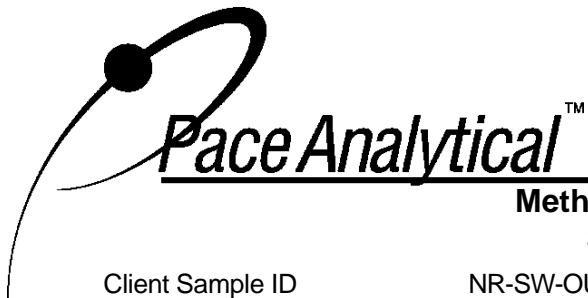
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.0384
2		---	---	ND	---	0.0384
3		---	---	ND	---	0.0384
4		13.269	1.34	0.125	---	0.0384
5		---	---	ND	---	0.0384
6		---	---	ND	---	0.0384
7		---	---	ND	---	0.0384
8		---	---	ND	---	0.0384
9		---	---	ND	---	0.0384
10		---	---	ND	---	0.0384
11		---	---	ND	---	0.377
12	12/13	---	---	ND	---	0.0769
13	12/13	---	---	ND	---	0.0769
14		---	---	ND	---	0.0384
15		20.415	1.38	0.0574	---	0.0507
16		---	---	ND	---	0.0384
17		19.840	1.00	0.151	---	0.0384
18	18/30	---	---	ND	---	0.0769
19		17.132	1.00	0.152	---	0.0384
20	20/28	---	---	ND	---	0.198
21	21/33	---	---	ND	---	0.208
22		---	---	ND	---	0.146
23		---	---	ND	---	0.0384
24		---	---	ND	---	0.0384
25		23.180	1.03	0.0671	---	0.0384
26	26/29	22.902	1.01	0.130	---	0.0769
27		---	---	ND	---	0.0384
28	20/28	---	---	ND	---	0.198
29	26/29	22.902	1.01	(0.130)	---	0.0769
30	18/30	---	---	ND	---	0.0769
31		---	---	ND	---	0.200
32		20.968	1.07	0.0737	---	0.0384
33	21/33	---	---	ND	---	0.208
34		---	---	ND	---	0.0384
35		---	---	ND	---	0.0384
36		---	---	ND	---	0.0384
37		---	---	ND	---	0.0815
38		---	---	ND	---	0.0384
39		---	---	ND	---	0.0384
40	40/41/71	28.053	0.77	0.188	---	0.115
41	40/41/71	28.053	0.77	(0.188)	---	0.115
42		27.527	0.77	0.133	---	0.0384
43	43/73	---	---	ND	---	0.0769
44	44/47/65	27.017	0.76	0.792	---	0.115

Conc = Concentration
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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-OU1-202305
 Lab Sample ID 40262368010
 Filename P230529B_11

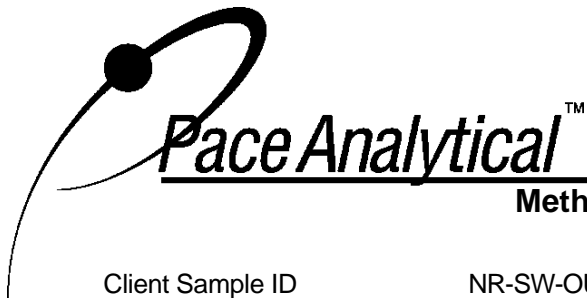
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
45	45/51	24.046	0.74	0.146	---	0.0769
46		24.294	0.74	0.0536	---	0.0384
47	44/47/65	27.017	0.76	(0.792)	---	0.115
48		---	---	ND	---	0.0384
49	49/69	26.398	0.77	0.842	---	0.0769
50	50/53	23.195	0.74	0.214	---	0.0769
51	45/51	24.046	0.74	(0.146)	---	0.0769
52		25.872	0.77	1.57	---	0.198
53	50/53	23.195	0.74	(0.214)	---	0.0769
54		---	---	ND	---	0.0384
55		---	---	ND	---	0.0384
56		---	---	ND	---	0.0384
57		---	---	ND	---	0.0384
58		---	---	ND	---	0.0384
59	59/62/75	---	---	ND	---	0.115
60		---	---	ND	---	0.0384
61	61/70/74/76	31.014	0.77	0.340	---	0.154
62	59/62/75	---	---	ND	---	0.115
63		---	---	ND	---	0.0384
64		28.285	0.77	0.126	---	0.0384
65	44/47/65	27.017	0.76	(0.792)	---	0.115
66		31.370	0.66	0.204	---	0.0907
67		---	---	ND	---	0.0384
68		---	---	ND	---	0.0384
69	49/69	26.398	0.77	(0.842)	---	0.0769
70	61/70/74/76	31.014	0.77	(0.340)	---	0.154
71	40/41/71	28.053	0.77	(0.188)	---	0.115
72		---	---	ND	---	0.0384
73	43/73	---	---	ND	---	0.0769
74	61/70/74/76	31.014	0.77	(0.340)	---	0.154
75	59/62/75	---	---	ND	---	0.115
76	61/70/74/76	31.014	0.77	(0.340)	---	0.154
77		---	---	ND	---	0.0384
78		---	---	ND	---	0.0384
79		---	---	ND	---	0.0384
80		---	---	ND	---	0.0384
81		---	---	ND	---	0.0384
82		35.594	1.68	0.0862	---	0.0384
83		33.676	1.38	0.0986	---	0.0384
84		31.231	1.43	0.309	---	0.0384
85	85/116/117	35.099	1.57	0.284	---	0.115
86	86/87/97/108/119/125	34.434	1.52	0.829	---	0.231
87	86/87/97/108/119/125	34.434	1.52	(0.829)	---	0.231
88	88/91	31.030	1.49	0.270	---	0.0769

Conc = Concentration
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REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-OU1-202305
 Lab Sample ID 40262368010
 Filename P230529B_11

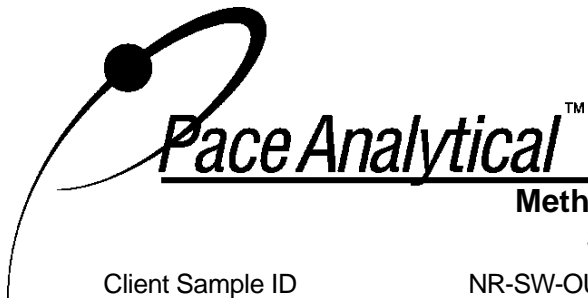
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
89		---	---	ND	---	0.0384
90	90/101/113	33.211	1.49	1.60	---	0.115
91	88/91	31.030	1.49	(0.270)	---	0.0769
92		32.593	1.49	0.430	---	0.0384
93	93/98/100/102	---	---	ND	---	0.154
94		---	---	ND	---	0.0384
95		30.086	1.57	1.33	---	0.108
96		---	---	ND	---	0.0384
97	86/87/97/108/119/125	34.434	1.52	(0.829)	---	0.231
98	93/98/100/102	---	---	ND	---	0.154
99		33.830	1.50	1.06	---	0.0384
100	93/98/100/102	---	---	ND	---	0.154
101	90/101/113	33.211	1.49	(1.60)	---	0.115
102	93/98/100/102	---	---	ND	---	0.154
103		---	---	ND	---	0.0384
104		---	---	ND	---	0.0384
105		39.590	1.44	0.159	---	0.0384
106		---	---	ND	---	0.0384
107	107/124	---	---	ND	---	0.0769
108	86/87/97/108/119/125	34.434	1.52	(0.829)	---	0.231
109		37.913	1.58	0.0553	---	0.0384
110	110/115	35.269	1.53	1.65	---	0.0769
111		---	---	ND	---	0.0384
112		---	---	ND	---	0.0384
113	90/101/113	33.211	1.49	(1.60)	---	0.115
114		---	---	ND	---	0.0384
115	110/115	35.269	1.53	(1.65)	---	0.0769
116	85/116/117	35.099	1.57	(0.284)	---	0.115
117	85/116/117	35.099	1.57	(0.284)	---	0.115
118		38.382	1.46	0.510	---	0.0600
119	86/87/97/108/119/125	34.434	1.52	(0.829)	---	0.231
120		---	---	ND	---	0.0384
121		---	---	ND	---	0.0384
122		---	---	ND	---	0.0384
123		---	---	ND	---	0.0384
124	107/124	---	---	ND	---	0.0769
125	86/87/97/108/119/125	34.434	1.52	(0.829)	---	0.231
126		---	---	ND	---	0.0384
127		---	---	ND	---	0.0384
128	128/166	42.877	1.21	0.117	---	0.0769
129	129/138/163	41.585	1.30	0.732	---	0.115
130		40.915	1.25	0.0552	---	0.0384
131		---	---	ND	---	0.0384
132		38.483	1.21	0.254	---	0.0384

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-OU1-202305
 Lab Sample ID 40262368010
 Filename P230529B_11

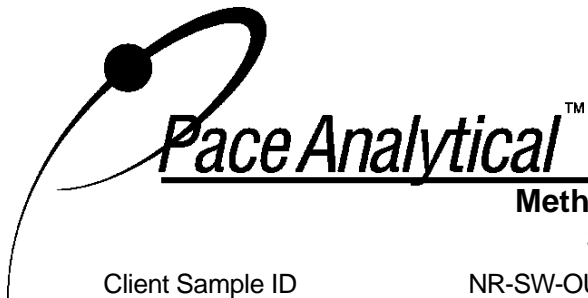
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
133		---	---	ND	---	0.0384
134	134/143	---	---	ND	---	0.0769
135	135/151	36.228	1.28	0.342	---	0.0769
136		33.722	1.18	0.117	---	0.0384
137		41.149	1.15	0.0478	---	0.0384
138	129/138/163	41.585	1.30	(0.732)	---	0.115
139	139/140	---	---	ND	---	0.0769
140	139/140	---	---	ND	---	0.0769
141		40.495	1.24	0.116	---	0.0384
142		---	---	ND	---	0.0384
143	134/143	---	---	ND	---	0.0769
144		---	---	ND	---	0.0384
145		---	---	ND	---	0.0384
146		39.674	1.20	0.114	---	0.0384
147	147/149	37.192	1.23	0.650	---	0.0769
148		---	---	ND	---	0.0384
149	147/149	37.192	1.23	(0.650)	---	0.0769
150		---	---	ND	---	0.0384
151	135/151	36.228	1.28	(0.342)	---	0.0769
152		---	---	ND	---	0.0384
153	153/168	40.311	1.19	0.638	---	0.0769
154		---	---	ND	---	0.0384
155		---	---	ND	---	0.0384
156	156/157	---	---	ND	---	0.0769
157	156/157	---	---	ND	---	0.0769
158		41.988	1.23	0.0585	---	0.0384
159		---	---	ND	---	0.0384
160		---	---	ND	---	0.0384
161		---	---	ND	---	0.0384
162		---	---	ND	---	0.0384
163	129/138/163	41.585	1.30	(0.732)	---	0.115
164		41.250	1.27	0.0468	---	0.0384
165		---	---	ND	---	0.0384
166	128/166	42.877	1.21	(0.117)	---	0.0769
167		---	---	ND	---	0.0384
168	153/168	40.311	1.19	(0.638)	---	0.0769
169		---	---	ND	---	0.0384
170		48.533	1.13	0.0513	---	0.0384
171	171/173	---	---	ND	---	0.0769
172		---	---	ND	---	0.0384
173	171/173	---	---	ND	---	0.0769
174		43.838	1.02	0.0552	---	0.0384
175		---	---	ND	---	0.0384
176		---	---	ND	---	0.0384

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-OU1-202305
 Lab Sample ID 40262368010
 Filename P230529B_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
177		44.307	1.05	0.0385	---	0.0384
178		---	---	ND	---	0.0384
179		---	---	ND	---	0.0384
180	180/193	47.258	1.09	0.0899	---	0.0769
181		---	---	ND	---	0.0384
182		---	---	ND	---	0.0384
183	183/185	---	---	ND	---	0.0769
184		---	---	ND	---	0.0384
185	183/185	---	---	ND	---	0.0769
186		---	---	ND	---	0.0384
187		42.977	0.97	0.0878	---	0.0384
188		---	---	ND	---	0.0384
189		---	---	ND	---	0.0384
190		---	---	ND	---	0.0384
191		---	---	ND	---	0.0384
192		---	---	ND	---	0.0384
193	180/193	47.258	1.09	(0.0899)	---	0.0769
194		---	---	ND	---	0.0384
195		---	---	ND	---	0.0384
196		---	---	ND	---	0.0384
197	197/200	---	---	ND	---	0.0769
198	198/199	---	---	ND	---	0.0769
199	198/199	---	---	ND	---	0.0769
200	197/200	---	---	ND	---	0.0769
201		---	---	ND	---	0.0384
202		---	---	ND	---	0.0384
203		---	---	ND	---	0.0384
204		---	---	ND	---	0.0384
205		---	---	ND	---	0.0384
206		---	---	ND	---	0.0384
207		---	---	ND	---	0.0384
208		---	---	ND	---	0.0384
209		---	---	ND	---	0.0384

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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

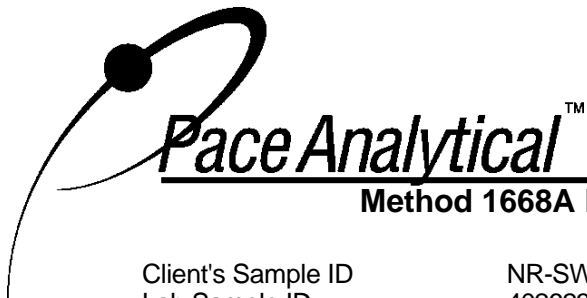
Client Sample ID NR-SW-OU1-202305
Lab Sample ID 40262368010
Filename P230529B_11

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	0.182
Total Trichloro Biphenyls	0.574
Total Tetrachloro Biphenyls	4.61
Total Pentachloro Biphenyls	8.68
Total Hexachloro Biphenyls	3.29
Total Heptachloro Biphenyls	0.323
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	17.7

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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Method 1668A Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-BKG2-202305		
Lab Sample ID	40262368011		
Filename	P230531B_08		
Injected By	CVS		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	05/16/2023 17:40
ICAL ID	P230531B02	Received	05/20/2023 18:45
CCal Filename(s)	P230531B_01	Extracted	05/26/2023 11:40
Method Blank ID	BLANK-106448	Analyzed	06/01/2023 04:43

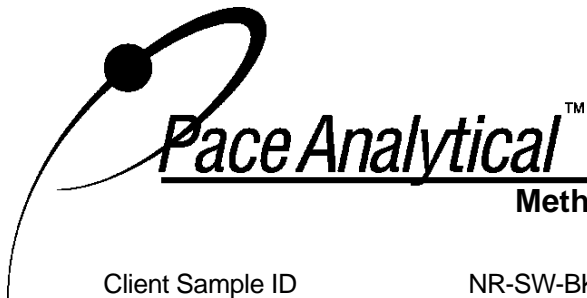
PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.114	3.20	2.0	1.09	55
13C-4-MoCB	3	12.941	3.14	2.0	1.35	67
13C-2,2'-DiCB	4	13.246	1.53	2.0	1.33	66
13C-4,4'-DiCB	15	20.359	1.57	2.0	1.53	76
13C-2,2',6-TrCB	19	17.087	1.02	2.0	1.43	72
13C-3,4,4'-TrCB	37	28.175	1.09	2.0	1.39	70
13C-2,2',6,6'-TeCB	54	20.719	0.79	2.0	1.13	57
13C-3,4,4',5-TeCB	81	35.328	0.81	2.0	1.44	72
13C-3,3',4,4'-TeCB	77	35.900	0.78	2.0	1.39	70
13C-2,2',4,6,6'-PeCB	104	26.860	1.55	2.0	1.31	66
13C-2,3,3',4,4'-PeCB	105	39.517	1.61	2.0	1.39	70
13C-2,3,4,4',5-PeCB	114	38.880	1.58	2.0	1.37	68
13C-2,3',4,4',5-PeCB	118	38.327	1.60	2.0	1.35	68
13C-2,3',4,4',5'-PeCB	123	37.975	1.56	2.0	1.38	69
13C-3,3',4,4',5-PeCB	126	42.686	1.56	2.0	1.29	64
13C-2,2',4,4',6,6'-HxCB	155	32.945	1.24	2.0	1.33	66
13C-HxCB (156/157)	156/157	45.777	1.27	4.0	2.57	64
13C-2,3',4,4',5,5'-HxCB	167	44.603	1.28	2.0	1.34	67
13C-3,3',4,4',5,5'-HxCB	169	49.063	1.25	2.0	1.21	61
13C-2,2',3,4',5,6,6'-HpCB	188	38.863	1.04	2.0	1.46	73
13C-2,3,3',4,4',5,5'-HpCB	189	51.626	1.05	2.0	1.52	76
13C-2,2',3,3',5,5',6,6'-OxCB	202	44.351	0.89	2.0	1.41	71
13C-2,3,3',4,4',5,5',6-OxCB	205	54.234	0.91	2.0	1.33	67
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.001	0.80	2.0	1.25	62
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.152	0.79	2.0	1.38	69
13C-DeCB	209	57.639	0.70	2.0	1.20	60
Cleanup Standards						
13C-2,4,4'-TrCB	28	23.797	1.04	2.0	1.22	61
13C-2,3,3',5,5'-PeCB	111	35.946	1.57	2.0	1.08	54
13C-2,2',3,3',5,5',6-HpCB	178	41.982	1.04	2.0	1.04	52
Recovery Standards						
13C-2,5-DiCB	9	15.728	1.56	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.808	0.80	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.146	1.58	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.529	1.25	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OxCB	194	53.759	0.91	2.0	NA	NA

R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-BKG2-202305
 Lab Sample ID 40262368011
 Filename P230531B_08

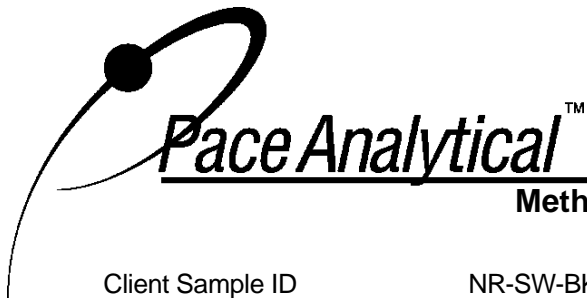
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.0383
2		---	---	ND	---	0.0383
3		---	---	ND	---	0.0383
4		---	---	ND	---	0.0383
5		---	---	ND	---	0.0383
6		---	---	ND	---	0.0383
7		---	---	ND	---	0.0383
8		---	---	ND	---	0.0383
9		---	---	ND	---	0.0383
10		---	---	ND	---	0.0383
11		---	---	ND	---	0.376
12	12/13	---	---	ND	---	0.0767
13	12/13	---	---	ND	---	0.0767
14		---	---	ND	---	0.0383
15		---	---	ND	---	0.0506
16		---	---	ND	---	0.0383
17		---	---	ND	---	0.0383
18	18/30	---	---	ND	---	0.0767
19		---	---	ND	---	0.0383
20	20/28	---	---	ND	---	0.198
21	21/33	---	---	ND	---	0.207
22		---	---	ND	---	0.146
23		---	---	ND	---	0.0383
24		---	---	ND	---	0.0383
25		---	---	ND	---	0.0383
26	26/29	---	---	ND	---	0.0767
27		---	---	ND	---	0.0383
28	20/28	---	---	ND	---	0.198
29	26/29	---	---	ND	---	0.0767
30	18/30	---	---	ND	---	0.0767
31		---	---	ND	---	0.199
32		---	---	ND	---	0.0383
33	21/33	---	---	ND	---	0.207
34		---	---	ND	---	0.0383
35		---	---	ND	---	0.0383
36		---	---	ND	---	0.0383
37		---	---	ND	---	0.0813
38		---	---	ND	---	0.0383
39		---	---	ND	---	0.0383
40	40/41/71	---	---	ND	---	0.115
41	40/41/71	---	---	ND	---	0.115
42		---	---	ND	---	0.0383
43	43/73	---	---	ND	---	0.0767
44	44/47/65	---	---	ND	---	0.115

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

ND = Not Detected
 NA = Not Applicable
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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-BKG2-202305
 Lab Sample ID 40262368011
 Filename P230531B_08

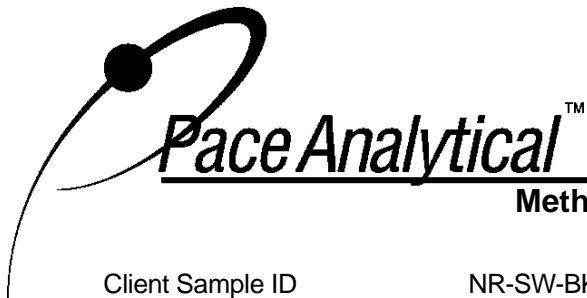
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
45	45/51	---	---	ND	---	0.0767
46		---	---	ND	---	0.0383
47	44/47/65	---	---	ND	---	0.115
48		---	---	ND	---	0.0383
49	49/69	---	---	ND	---	0.0767
50	50/53	---	---	ND	---	0.0767
51	45/51	---	---	ND	---	0.0767
52		---	---	ND	---	0.198
53	50/53	---	---	ND	---	0.0767
54		---	---	ND	---	0.0383
55		---	---	ND	---	0.0383
56		---	---	ND	---	0.0383
57		---	---	ND	---	0.0383
58		---	---	ND	---	0.0383
59	59/62/75	---	---	ND	---	0.115
60		---	---	ND	---	0.0383
61	61/70/74/76	---	---	ND	---	0.153
62	59/62/75	---	---	ND	---	0.115
63		---	---	ND	---	0.0383
64		---	---	ND	---	0.0383
65	44/47/65	---	---	ND	---	0.115
66		---	---	ND	---	0.0905
67		---	---	ND	---	0.0383
68		---	---	ND	---	0.0383
69	49/69	---	---	ND	---	0.0767
70	61/70/74/76	---	---	ND	---	0.153
71	40/41/71	---	---	ND	---	0.115
72		---	---	ND	---	0.0383
73	43/73	---	---	ND	---	0.0767
74	61/70/74/76	---	---	ND	---	0.153
75	59/62/75	---	---	ND	---	0.115
76	61/70/74/76	---	---	ND	---	0.153
77		---	---	ND	---	0.0383
78		---	---	ND	---	0.0383
79		---	---	ND	---	0.0383
80		---	---	ND	---	0.0383
81		---	---	ND	---	0.0383
82		---	---	ND	---	0.0383
83		---	---	ND	---	0.0383
84		---	---	ND	---	0.0383
85	85/116/117	---	---	ND	---	0.115
86	86/87/97/108/119/125	---	---	ND	---	0.230
87	86/87/97/108/119/125	---	---	ND	---	0.230
88	88/91	---	---	ND	---	0.0767

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-BKG2-202305
 Lab Sample ID 40262368011
 Filename P230531B_08

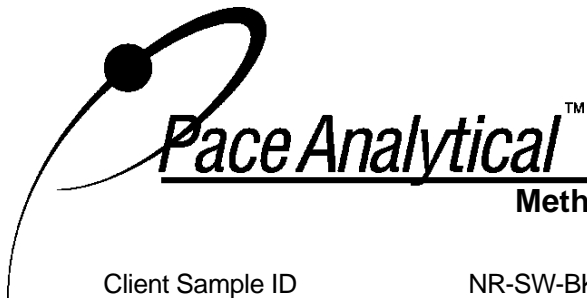
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
89		---	---	ND	---	0.0383
90	90/101/113	---	---	ND	---	0.115
91	88/91	---	---	ND	---	0.0767
92		---	---	ND	---	0.0383
93	93/98/100/102	---	---	ND	---	0.153
94		---	---	ND	---	0.0383
95		---	---	ND	---	0.107
96		---	---	ND	---	0.0383
97	86/87/97/108/119/125	---	---	ND	---	0.230
98	93/98/100/102	---	---	ND	---	0.153
99		---	---	ND	---	0.0383
100	93/98/100/102	---	---	ND	---	0.153
101	90/101/113	---	---	ND	---	0.115
102	93/98/100/102	---	---	ND	---	0.153
103		---	---	ND	---	0.0383
104		---	---	ND	---	0.0383
105		---	---	ND	---	0.0383
106		---	---	ND	---	0.0383
107	107/124	---	---	ND	---	0.0767
108	86/87/97/108/119/125	---	---	ND	---	0.230
109		---	---	ND	---	0.0383
110	110/115	---	---	ND	---	0.0767
111		---	---	ND	---	0.0383
112		---	---	ND	---	0.0383
113	90/101/113	---	---	ND	---	0.115
114		---	---	ND	---	0.0383
115	110/115	---	---	ND	---	0.0767
116	85/116/117	---	---	ND	---	0.115
117	85/116/117	---	---	ND	---	0.115
118		---	---	ND	---	0.0598
119	86/87/97/108/119/125	---	---	ND	---	0.230
120		---	---	ND	---	0.0383
121		---	---	ND	---	0.0383
122		---	---	ND	---	0.0383
123		---	---	ND	---	0.0383
124	107/124	---	---	ND	---	0.0767
125	86/87/97/108/119/125	---	---	ND	---	0.230
126		---	---	ND	---	0.0383
127		---	---	ND	---	0.0383
128	128/166	---	---	ND	---	0.0767
129	129/138/163	---	---	ND	---	0.115
130		---	---	ND	---	0.0383
131		---	---	ND	---	0.0383
132		---	---	ND	---	0.0383

Conc = Concentration
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 ng's = Nanograms

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-BKG2-202305
 Lab Sample ID 40262368011
 Filename P230531B_08

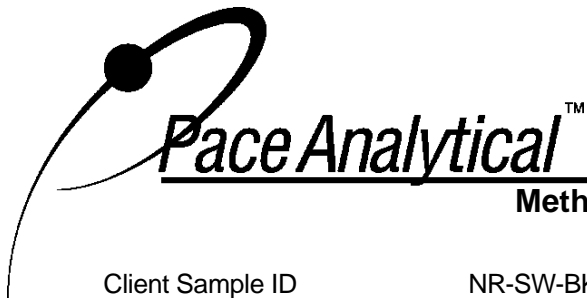
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
133		---	---	ND	---	0.0383
134	134/143	---	---	ND	---	0.0767
135	135/151	---	---	ND	---	0.0767
136		---	---	ND	---	0.0383
137		---	---	ND	---	0.0383
138	129/138/163	---	---	ND	---	0.115
139	139/140	---	---	ND	---	0.0767
140	139/140	---	---	ND	---	0.0767
141		---	---	ND	---	0.0383
142		---	---	ND	---	0.0383
143	134/143	---	---	ND	---	0.0767
144		---	---	ND	---	0.0383
145		---	---	ND	---	0.0383
146		---	---	ND	---	0.0383
147	147/149	---	---	ND	---	0.0767
148		---	---	ND	---	0.0383
149	147/149	---	---	ND	---	0.0767
150		---	---	ND	---	0.0383
151	135/151	---	---	ND	---	0.0767
152		---	---	ND	---	0.0383
153	153/168	---	---	ND	---	0.0767
154		---	---	ND	---	0.0383
155		---	---	ND	---	0.0383
156	156/157	---	---	ND	---	0.0767
157	156/157	---	---	ND	---	0.0767
158		---	---	ND	---	0.0383
159		---	---	ND	---	0.0383
160		---	---	ND	---	0.0383
161		---	---	ND	---	0.0383
162		---	---	ND	---	0.0383
163	129/138/163	---	---	ND	---	0.115
164		---	---	ND	---	0.0383
165		---	---	ND	---	0.0383
166	128/166	---	---	ND	---	0.0767
167		---	---	ND	---	0.0383
168	153/168	---	---	ND	---	0.0767
169		---	---	ND	---	0.0383
170		---	---	ND	---	0.0383
171	171/173	---	---	ND	---	0.0767
172		---	---	ND	---	0.0383
173	171/173	---	---	ND	---	0.0767
174		---	---	ND	---	0.0383
175		---	---	ND	---	0.0383
176		---	---	ND	---	0.0383

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
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 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

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 NC = Not Calculated
 * = See Discussion
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 RT = Retention Time
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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-BKG2-202305
 Lab Sample ID 40262368011
 Filename P230531B_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
177		---	---	ND	---	0.0383
178		---	---	ND	---	0.0383
179		---	---	ND	---	0.0383
180	180/193	---	---	ND	---	0.0767
181		---	---	ND	---	0.0383
182		---	---	ND	---	0.0383
183	183/185	---	---	ND	---	0.0767
184		---	---	ND	---	0.0383
185	183/185	---	---	ND	---	0.0767
186		---	---	ND	---	0.0383
187		---	---	ND	---	0.0383
188		---	---	ND	---	0.0383
189		---	---	ND	---	0.0383
190		---	---	ND	---	0.0383
191		---	---	ND	---	0.0383
192		---	---	ND	---	0.0383
193	180/193	---	---	ND	---	0.0767
194		---	---	ND	---	0.0383
195		---	---	ND	---	0.0383
196		---	---	ND	---	0.0383
197	197/200	---	---	ND	---	0.0767
198	198/199	---	---	ND	---	0.0767
199	198/199	---	---	ND	---	0.0767
200	197/200	---	---	ND	---	0.0767
201		---	---	ND	---	0.0383
202		---	---	ND	---	0.0383
203		---	---	ND	---	0.0383
204		---	---	ND	---	0.0383
205		---	---	ND	---	0.0383
206		---	---	ND	---	0.0383
207		---	---	ND	---	0.0383
208		---	---	ND	---	0.0383
209		---	---	ND	---	0.0383

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
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 RT = Retention Time
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REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-BKG2-202305
Lab Sample ID 40262368011
Filename P230531B_08

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	ND

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
Blank Analysis Results**

Lab Sample ID	BLANK-106282		
Filename	P230528A_06		
Injected By	BAL	Matrix	Water
Total Amount Extracted	1000 mL	Extracted	05/23/2023 12:15
ICAL ID	P230528A02	Analyzed	05/28/2023 18:02
CCal Filename(s)	P230528A_01	Dilution	NA

PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
------------	-------	----	-------	------------	------------	------------

Labeled Analytes

13C-2-MoCB	1	10.238	3.07	2.0	1.04	52
13C-4-MoCB	3	13.020	3.23	2.0	1.29	65
13C-2,2'-DiCB	4	13.326	1.54	2.0	1.33	66
13C-4,4'-DiCB	15	20.415	1.60	2.0	1.42	71
13C-2,2',6-TrCB	19	17.154	1.06	2.0	1.33	67
13C-3,4,4'-TrCB	37	28.192	1.08	2.0	1.53	77
13C-2,2',6,6'-TeCB	54	20.766	0.80	2.0	1.22	61
13C-3,4,4',5-TeCB	81	35.346	0.80	2.0	1.62	81
13C-3,3',4,4'-TeCB	77	35.934	0.79	2.0	1.60	80
13C-2,2',4,6,6'-PeCB	104	26.893	1.63	2.0	1.27	63
13C-2,3,3',4,4'-PeCB	105	39.556	1.59	2.0	1.53	76
13C-2,3,4,4',5-PeCB	114	38.902	1.62	2.0	1.53	76
13C-2,3',4,4',5-PeCB	118	38.348	1.57	2.0	1.57	78
13C-2,3',4,4',5'-PeCB	123	38.013	1.60	2.0	1.50	75
13C-3,3',4,4',5-PeCB	126	42.725	1.63	2.0	1.33	67
13C-2,2',4,4',6,6'-HxCB	155	32.979	1.24	2.0	1.45	73
13C-HxCB (156/157)	156/157	45.816	1.28	4.0	2.69	67
13C-2,3',4,4',5,5'-HxCB	167	44.642	1.27	2.0	1.40	70
13C-3,3',4,4',5,5'-HxCB	169	49.103	1.28	2.0	1.55	77
13C-2,2',3,4',5,6,6'-HpCB	188	38.902	1.01	2.0	1.65	82
13C-2,3,3',4,4',5,5'-HpCB	189	51.675	1.07	2.0	1.71	86
13C-2,2',3,3',5,5',6,6'-OxCB	202	44.407	0.90	2.0	1.46	73
13C-2,3,3',4,4',5,5',6-OxCB	205	54.284	0.89	2.0	1.71	86
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.051	0.80	2.0	1.68	84
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.201	0.79	2.0	1.76	88
13C-DeCB	209	57.689	0.72	2.0	1.71	85

Cleanup Standards

13C-2,4,4'-TrCB	28	23.845	1.04	2.0	1.60	80
13C-2,3,3',5,5'-PeCB	111	35.980	1.53	2.0	1.51	75
13C-2,2',3,3',5,5',6-HpCB	178	42.021	1.06	2.0	1.45	73

Recovery Standards

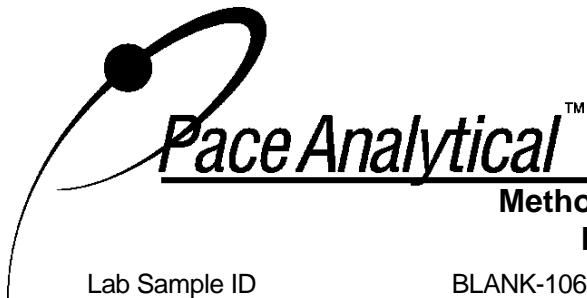
13C-2,5-DiCB	9	15.795	1.60	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.841	0.77	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.180	1.59	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.551	1.27	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OxCB	194	53.809	0.89	2.0	NA	NA

R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
 Blank Analysis Results**

Lab Sample ID BLANK-106282
 Filename P230528A_06

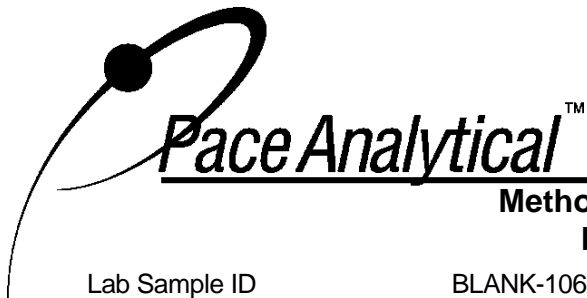
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.0400
2		---	---	ND	---	0.0400
3		---	---	ND	---	0.0400
4		---	---	ND	---	0.0400
5		---	---	ND	---	0.0400
6		---	---	ND	---	0.0400
7		---	---	ND	---	0.0400
8		---	---	ND	---	0.0400
9		---	---	ND	---	0.0400
10		---	---	ND	---	0.0400
11		---	---	ND	---	0.392
12	12/13	---	---	ND	---	0.0800
13	12/13	---	---	ND	---	0.0800
14		---	---	ND	---	0.0400
15		---	---	ND	---	0.0528
16		---	---	ND	---	0.0400
17		---	---	ND	---	0.0400
18	18/30	---	---	ND	---	0.0800
19		---	---	ND	---	0.0400
20	20/28	---	---	ND	---	0.206
21	21/33	---	---	ND	---	0.216
22		---	---	ND	---	0.152
23		---	---	ND	---	0.0400
24		---	---	ND	---	0.0400
25		---	---	ND	---	0.0400
26	26/29	---	---	ND	---	0.0800
27		---	---	ND	---	0.0400
28	20/28	---	---	ND	---	0.206
29	26/29	---	---	ND	---	0.0800
30	18/30	---	---	ND	---	0.0800
31		---	---	ND	---	0.208
32		---	---	ND	---	0.0400
33	21/33	---	---	ND	---	0.216
34		---	---	ND	---	0.0400
35		---	---	ND	---	0.0400
36		---	---	ND	---	0.0400
37		---	---	ND	---	0.0848
38		---	---	ND	---	0.0400
39		---	---	ND	---	0.0400
40	40/41/71	---	---	ND	---	0.120
41	40/41/71	---	---	ND	---	0.120
42		---	---	ND	---	0.0400
43	43/73	---	---	ND	---	0.0800
44	44/47/65	---	---	ND	---	0.120
45	45/51	---	---	ND	---	0.0800

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
 * = See Discussion
 X = Outside QC Limits
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REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
 Blank Analysis Results**

Lab Sample ID BLANK-106282
 Filename P230528A_06

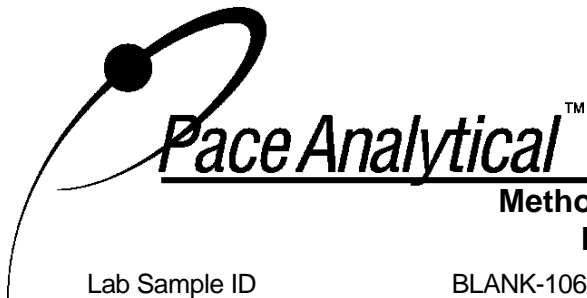
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
46		---	---	ND	---	0.0400
47	44/47/65	---	---	ND	---	0.120
48		---	---	ND	---	0.0400
49	49/69	---	---	ND	---	0.0800
50	50/53	---	---	ND	---	0.0800
51	45/51	---	---	ND	---	0.0800
52		---	---	ND	---	0.206
53	50/53	---	---	ND	---	0.0800
54		---	---	ND	---	0.0400
55		---	---	ND	---	0.0400
56		---	---	ND	---	0.0400
57		---	---	ND	---	0.0400
58		---	---	ND	---	0.0400
59	59/62/75	---	---	ND	---	0.120
60		---	---	ND	---	0.0400
61	61/70/74/76	---	---	ND	---	0.160
62	59/62/75	---	---	ND	---	0.120
63		---	---	ND	---	0.0400
64		---	---	ND	---	0.0400
65	44/47/65	---	---	ND	---	0.120
66		---	---	ND	---	0.0944
67		---	---	ND	---	0.0400
68		---	---	ND	---	0.0400
69	49/69	---	---	ND	---	0.0800
70	61/70/74/76	---	---	ND	---	0.160
71	40/41/71	---	---	ND	---	0.120
72		---	---	ND	---	0.0400
73	43/73	---	---	ND	---	0.0800
74	61/70/74/76	---	---	ND	---	0.160
75	59/62/75	---	---	ND	---	0.120
76	61/70/74/76	---	---	ND	---	0.160
77		---	---	ND	---	0.0400
78		---	---	ND	---	0.0400
79		---	---	ND	---	0.0400
80		---	---	ND	---	0.0400
81		---	---	ND	---	0.0400
82		---	---	ND	---	0.0400
83		---	---	ND	---	0.0400
84		---	---	ND	---	0.0400
85	85/116/117	---	---	ND	---	0.120
86	86/87/97/108/119/125	---	---	ND	---	0.240
87	86/87/97/108/119/125	---	---	ND	---	0.240
88	88/91	---	---	ND	---	0.0800
89		---	---	ND	---	0.0400
90	90/101/113	---	---	ND	---	0.120

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
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**Method 1668A Polychlorobiphenyl
 Blank Analysis Results**

Lab Sample ID BLANK-106282
 Filename P230528A_06

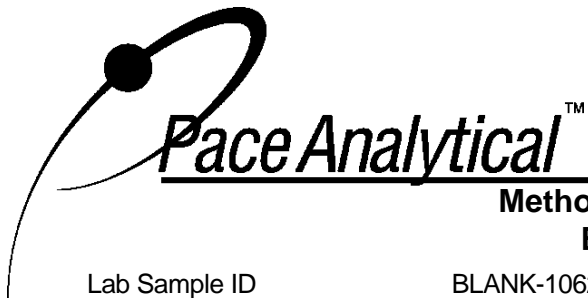
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
91	88/91	---	---	ND	---	0.0800
92		---	---	ND	---	0.0400
93	93/98/100/102	---	---	ND	---	0.160
94		---	---	ND	---	0.0400
95		---	---	ND	---	0.112
96		---	---	ND	---	0.0400
97	86/87/97/108/119/125	---	---	ND	---	0.240
98	93/98/100/102	---	---	ND	---	0.160
99		---	---	ND	---	0.0400
100	93/98/100/102	---	---	ND	---	0.160
101	90/101/113	---	---	ND	---	0.120
102	93/98/100/102	---	---	ND	---	0.160
103		---	---	ND	---	0.0400
104		---	---	ND	---	0.0400
105		---	---	ND	---	0.0400
106		---	---	ND	---	0.0400
107	107/124	---	---	ND	---	0.0800
108	86/87/97/108/119/125	---	---	ND	---	0.240
109		---	---	ND	---	0.0400
110	110/115	---	---	ND	---	0.0800
111		---	---	ND	---	0.0400
112		---	---	ND	---	0.0400
113	90/101/113	---	---	ND	---	0.120
114		---	---	ND	---	0.0400
115	110/115	---	---	ND	---	0.0800
116	85/116/117	---	---	ND	---	0.120
117	85/116/117	---	---	ND	---	0.120
118		---	---	ND	---	0.0624
119	86/87/97/108/119/125	---	---	ND	---	0.240
120		---	---	ND	---	0.0400
121		---	---	ND	---	0.0400
122		---	---	ND	---	0.0400
123		---	---	ND	---	0.0400
124	107/124	---	---	ND	---	0.0800
125	86/87/97/108/119/125	---	---	ND	---	0.240
126		---	---	ND	---	0.0400
127		---	---	ND	---	0.0400
128	128/166	---	---	ND	---	0.0800
129	129/138/163	---	---	ND	---	0.120
130		---	---	ND	---	0.0400
131		---	---	ND	---	0.0400
132		---	---	ND	---	0.0400
133		---	---	ND	---	0.0400
134	134/143	---	---	ND	---	0.0800
135	135/151	---	---	ND	---	0.0800

Conc = Concentration
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**Method 1668A Polychlorobiphenyl
 Blank Analysis Results**

Lab Sample ID BLANK-106282
 Filename P230528A_06

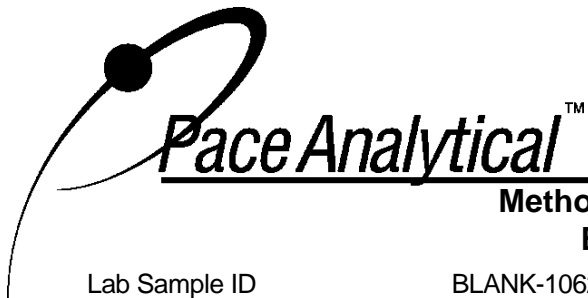
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
136		---	---	ND	---	0.0400
137		---	---	ND	---	0.0400
138	129/138/163	---	---	ND	---	0.120
139	139/140	---	---	ND	---	0.0800
140	139/140	---	---	ND	---	0.0800
141		---	---	ND	---	0.0400
142		---	---	ND	---	0.0400
143	134/143	---	---	ND	---	0.0800
144		---	---	ND	---	0.0400
145		---	---	ND	---	0.0400
146		---	---	ND	---	0.0400
147	147/149	---	---	ND	---	0.0800
148		---	---	ND	---	0.0400
149	147/149	---	---	ND	---	0.0800
150		---	---	ND	---	0.0400
151	135/151	---	---	ND	---	0.0800
152		---	---	ND	---	0.0400
153	153/168	---	---	ND	---	0.0800
154		---	---	ND	---	0.0400
155		---	---	ND	---	0.0400
156	156/157	---	---	ND	---	0.0800
157	156/157	---	---	ND	---	0.0800
158		---	---	ND	---	0.0400
159		---	---	ND	---	0.0400
160		---	---	ND	---	0.0400
161		---	---	ND	---	0.0400
162		---	---	ND	---	0.0400
163	129/138/163	---	---	ND	---	0.120
164		---	---	ND	---	0.0400
165		---	---	ND	---	0.0400
166	128/166	---	---	ND	---	0.0800
167		---	---	ND	---	0.0400
168	153/168	---	---	ND	---	0.0800
169		---	---	ND	---	0.0400
170		---	---	ND	---	0.0400
171	171/173	---	---	ND	---	0.0800
172		---	---	ND	---	0.0400
173	171/173	---	---	ND	---	0.0800
174		---	---	ND	---	0.0400
175		---	---	ND	---	0.0400
176		---	---	ND	---	0.0400
177		---	---	ND	---	0.0400
178		---	---	ND	---	0.0400
179		---	---	ND	---	0.0400
180	180/193	---	---	ND	---	0.0800

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
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 R = Recovery outside of Method 1668A control limits
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**Method 1668A Polychlorobiphenyl
 Blank Analysis Results**

Lab Sample ID BLANK-106282
 Filename P230528A_06

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
181		---	---	ND	---	0.0400
182		---	---	ND	---	0.0400
183	183/185	---	---	ND	---	0.0800
184		---	---	ND	---	0.0400
185	183/185	---	---	ND	---	0.0800
186		---	---	ND	---	0.0400
187		---	---	ND	---	0.0400
188		---	---	ND	---	0.0400
189		---	---	ND	---	0.0400
190		---	---	ND	---	0.0400
191		---	---	ND	---	0.0400
192		---	---	ND	---	0.0400
193	180/193	---	---	ND	---	0.0800
194		---	---	ND	---	0.0400
195		---	---	ND	---	0.0400
196		---	---	ND	---	0.0400
197	197/200	---	---	ND	---	0.0800
198	198/199	---	---	ND	---	0.0800
199	198/199	---	---	ND	---	0.0800
200	197/200	---	---	ND	---	0.0800
201		---	---	ND	---	0.0400
202		---	---	ND	---	0.0400
203		---	---	ND	---	0.0400
204		---	---	ND	---	0.0400
205		---	---	ND	---	0.0400
206		---	---	ND	---	0.0400
207		---	---	ND	---	0.0400
208		---	---	ND	---	0.0400
209		---	---	ND	---	0.0400

Conc = Concentration
 EML =Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
 * = See Discussion
 X = Outside QC Limits
 RT = Retention Time
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REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
Blank Analysis Results**

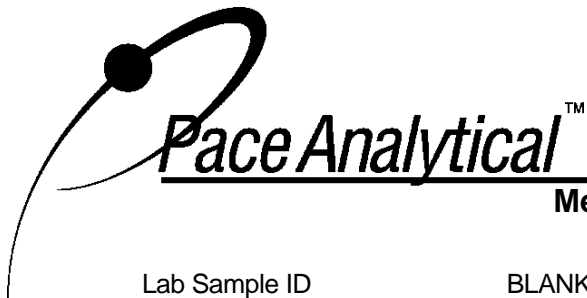
Client Sample ID CBLKQM
Lab Sample ID BLANK-106282
Filename P230528A_06

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	ND

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
Blank Analysis Results**

Lab Sample ID	BLANK-106448		
Filename	P230531B_07		
Injected By	CVS	Matrix	Water
Total Amount Extracted	1000 mL	Extracted	05/26/2023 11:40
ICAL ID	P230531B02	Analyzed	06/01/2023 03:40
CCal Filename(s)	P230531B_01	Dilution	NA

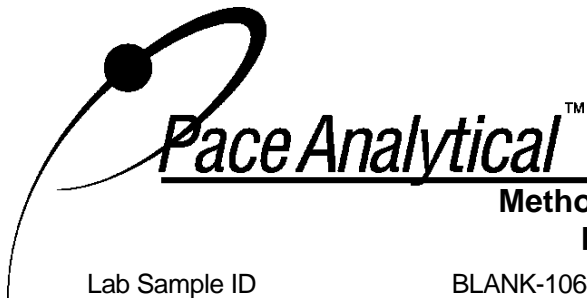
PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.204	3.04	2.0	0.926	46
13C-4-MoCB	3	12.997	3.09	2.0	1.09	55
13C-2,2'-DiCB	4	13.302	1.55	2.0	1.09	55
13C-4,4'-DiCB	15	20.392	1.60	2.0	1.27	63
13C-2,2',6-TrCB	19	17.132	1.03	2.0	1.13	57
13C-3,4,4'-TrCB	37	28.175	1.06	2.0	1.15	57
13C-2,2',6,6'-TeCB	54	20.734	0.79	2.0	0.873	44
13C-3,4,4',5-TeCB	81	35.328	0.80	2.0	1.33	67
13C-3,3',4,4'-TeCB	77	35.900	0.79	2.0	1.27	64
13C-2,2',4,6,6'-PeCB	104	26.875	1.57	2.0	0.926	46
13C-2,3,3',4,4'-PeCB	105	39.534	1.62	2.0	1.45	73
13C-2,3,4,4',5-PeCB	114	38.880	1.56	2.0	1.40	70
13C-2,3',4,4',5-PeCB	118	38.326	1.56	2.0	1.40	70
13C-2,3',4,4',5'-PeCB	123	37.991	1.59	2.0	1.42	71
13C-3,3',4,4',5-PeCB	126	42.703	1.59	2.0	1.24	62
13C-2,2',4,4',6,6'-HxCB	155	32.945	1.29	2.0	1.05	52
13C-HxCB (156/157)	156/157	45.793	1.27	4.0	2.76	69
13C-2,3',4,4',5,5'-HxCB	167	44.602	1.27	2.0	1.39	69
13C-3,3',4,4',5,5'-HxCB	169	49.079	1.29	2.0	1.20	60
13C-2,2',3,4',5,6,6'-HpCB	188	38.880	1.03	2.0	1.47	73
13C-2,3,3',4,4',5,5'-HpCB	189	51.647	1.08	2.0	1.68	84
13C-2,2',3,3',5,5',6,6'-OxCB	202	44.368	0.90	2.0	1.52	76
13C-2,3,3',4,4',5,5',6-OxCB	205	54.233	0.89	2.0	1.50	75
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.000	0.79	2.0	1.38	69
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.173	0.79	2.0	1.52	76
13C-DeCB	209	57.638	0.71	2.0	1.29	64
Cleanup Standards						
13C-2,4,4'-TrCB	28	23.813	1.04	2.0	1.28	64
13C-2,3,3',5,5'-PeCB	111	35.946	1.55	2.0	1.17	58
13C-2,2',3,3',5,5',6-HpCB	178	41.982	1.06	2.0	1.11	56
Recovery Standards						
13C-2,5-DiCB	9	15.772	1.62	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.823	0.79	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.146	1.59	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.529	1.25	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OxCB	194	53.759	0.90	2.0	NA	NA

R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
 Blank Analysis Results**

Lab Sample ID BLANK-106448
 Filename P230531B_07

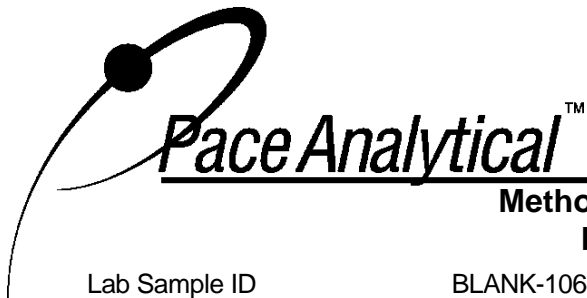
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.0400
2		---	---	ND	---	0.0400
3		---	---	ND	---	0.0400
4		---	---	ND	---	0.0400
5		---	---	ND	---	0.0400
6		---	---	ND	---	0.0400
7		---	---	ND	---	0.0400
8		---	---	ND	---	0.0400
9		---	---	ND	---	0.0400
10		---	---	ND	---	0.0400
11		---	---	ND	---	0.392
12	12/13	---	---	ND	---	0.0800
13	12/13	---	---	ND	---	0.0800
14		---	---	ND	---	0.0400
15		---	---	ND	---	0.0528
16		---	---	ND	---	0.0400
17		---	---	ND	---	0.0400
18	18/30	---	---	ND	---	0.0800
19		---	---	ND	---	0.0400
20	20/28	---	---	ND	---	0.206
21	21/33	---	---	ND	---	0.216
22		---	---	ND	---	0.152
23		---	---	ND	---	0.0400
24		---	---	ND	---	0.0400
25		---	---	ND	---	0.0400
26	26/29	---	---	ND	---	0.0800
27		---	---	ND	---	0.0400
28	20/28	---	---	ND	---	0.206
29	26/29	---	---	ND	---	0.0800
30	18/30	---	---	ND	---	0.0800
31		---	---	ND	---	0.208
32		---	---	ND	---	0.0400
33	21/33	---	---	ND	---	0.216
34		---	---	ND	---	0.0400
35		---	---	ND	---	0.0400
36		---	---	ND	---	0.0400
37		---	---	ND	---	0.0848
38		---	---	ND	---	0.0400
39		---	---	ND	---	0.0400
40	40/41/71	---	---	ND	---	0.120
41	40/41/71	---	---	ND	---	0.120
42		---	---	ND	---	0.0400
43	43/73	---	---	ND	---	0.0800
44	44/47/65	---	---	ND	---	0.120
45	45/51	---	---	ND	---	0.0800

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
 * = See Discussion
 X = Outside QC Limits
 RT = Retention Time
 I = Interference

REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
 Blank Analysis Results**

Lab Sample ID BLANK-106448
 Filename P230531B_07

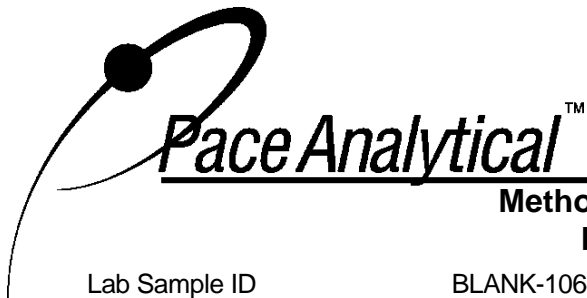
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
46		---	---	ND	---	0.0400
47	44/47/65	---	---	ND	---	0.120
48		---	---	ND	---	0.0400
49	49/69	---	---	ND	---	0.0800
50	50/53	---	---	ND	---	0.0800
51	45/51	---	---	ND	---	0.0800
52		---	---	ND	---	0.206
53	50/53	---	---	ND	---	0.0800
54		---	---	ND	---	0.0400
55		---	---	ND	---	0.0400
56		---	---	ND	---	0.0400
57		---	---	ND	---	0.0400
58		---	---	ND	---	0.0400
59	59/62/75	---	---	ND	---	0.120
60		---	---	ND	---	0.0400
61	61/70/74/76	---	---	ND	---	0.160
62	59/62/75	---	---	ND	---	0.120
63		---	---	ND	---	0.0400
64		---	---	ND	---	0.0400
65	44/47/65	---	---	ND	---	0.120
66		---	---	ND	---	0.0944
67		---	---	ND	---	0.0400
68		---	---	ND	---	0.0400
69	49/69	---	---	ND	---	0.0800
70	61/70/74/76	---	---	ND	---	0.160
71	40/41/71	---	---	ND	---	0.120
72		---	---	ND	---	0.0400
73	43/73	---	---	ND	---	0.0800
74	61/70/74/76	---	---	ND	---	0.160
75	59/62/75	---	---	ND	---	0.120
76	61/70/74/76	---	---	ND	---	0.160
77		---	---	ND	---	0.0400
78		---	---	ND	---	0.0400
79		---	---	ND	---	0.0400
80		---	---	ND	---	0.0400
81		---	---	ND	---	0.0400
82		---	---	ND	---	0.0400
83		---	---	ND	---	0.0400
84		---	---	ND	---	0.0400
85	85/116/117	---	---	ND	---	0.120
86	86/87/97/108/119/125	---	---	ND	---	0.240
87	86/87/97/108/119/125	---	---	ND	---	0.240
88	88/91	---	---	ND	---	0.0800
89		---	---	ND	---	0.0400
90	90/101/113	---	---	ND	---	0.120

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

ND = Not Detected
 NA = Not Applicable
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 * = See Discussion
 X = Outside QC Limits
 RT = Retention Time
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**Method 1668A Polychlorobiphenyl
 Blank Analysis Results**

Lab Sample ID BLANK-106448
 Filename P230531B_07

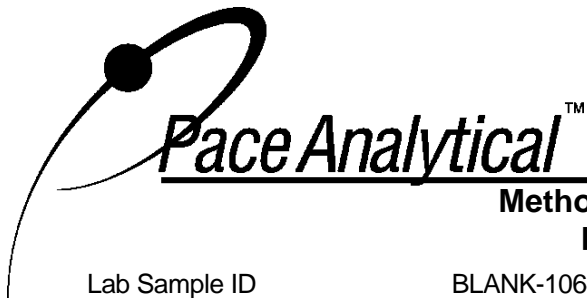
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
91	88/91	---	---	ND	---	0.0800
92		---	---	ND	---	0.0400
93	93/98/100/102	---	---	ND	---	0.160
94		---	---	ND	---	0.0400
95		---	---	ND	---	0.112
96		---	---	ND	---	0.0400
97	86/87/97/108/119/125	---	---	ND	---	0.240
98	93/98/100/102	---	---	ND	---	0.160
99		---	---	ND	---	0.0400
100	93/98/100/102	---	---	ND	---	0.160
101	90/101/113	---	---	ND	---	0.120
102	93/98/100/102	---	---	ND	---	0.160
103		---	---	ND	---	0.0400
104		---	---	ND	---	0.0400
105		---	---	ND	---	0.0400
106		---	---	ND	---	0.0400
107	107/124	---	---	ND	---	0.0800
108	86/87/97/108/119/125	---	---	ND	---	0.240
109		---	---	ND	---	0.0400
110	110/115	---	---	ND	---	0.0800
111		---	---	ND	---	0.0400
112		---	---	ND	---	0.0400
113	90/101/113	---	---	ND	---	0.120
114		---	---	ND	---	0.0400
115	110/115	---	---	ND	---	0.0800
116	85/116/117	---	---	ND	---	0.120
117	85/116/117	---	---	ND	---	0.120
118		---	---	ND	---	0.0624
119	86/87/97/108/119/125	---	---	ND	---	0.240
120		---	---	ND	---	0.0400
121		---	---	ND	---	0.0400
122		---	---	ND	---	0.0400
123		---	---	ND	---	0.0400
124	107/124	---	---	ND	---	0.0800
125	86/87/97/108/119/125	---	---	ND	---	0.240
126		---	---	ND	---	0.0400
127		---	---	ND	---	0.0400
128	128/166	---	---	ND	---	0.0800
129	129/138/163	---	---	ND	---	0.120
130		---	---	ND	---	0.0400
131		---	---	ND	---	0.0400
132		---	---	ND	---	0.0400
133		---	---	ND	---	0.0400
134	134/143	---	---	ND	---	0.0800
135	135/151	---	---	ND	---	0.0800

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

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**Method 1668A Polychlorobiphenyl
 Blank Analysis Results**

Lab Sample ID BLANK-106448
 Filename P230531B_07

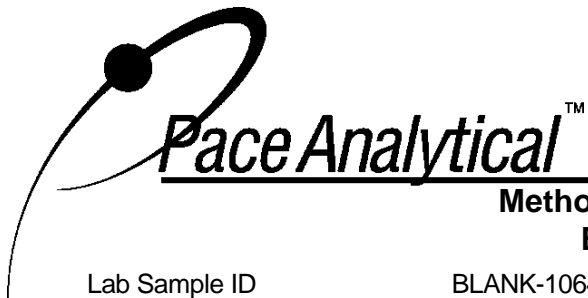
IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
136		---	---	ND	---	0.0400
137		---	---	ND	---	0.0400
138	129/138/163	---	---	ND	---	0.120
139	139/140	---	---	ND	---	0.0800
140	139/140	---	---	ND	---	0.0800
141		---	---	ND	---	0.0400
142		---	---	ND	---	0.0400
143	134/143	---	---	ND	---	0.0800
144		---	---	ND	---	0.0400
145		---	---	ND	---	0.0400
146		---	---	ND	---	0.0400
147	147/149	---	---	ND	---	0.0800
148		---	---	ND	---	0.0400
149	147/149	---	---	ND	---	0.0800
150		---	---	ND	---	0.0400
151	135/151	---	---	ND	---	0.0800
152		---	---	ND	---	0.0400
153	153/168	---	---	ND	---	0.0800
154		---	---	ND	---	0.0400
155		---	---	ND	---	0.0400
156	156/157	---	---	ND	---	0.0800
157	156/157	---	---	ND	---	0.0800
158		---	---	ND	---	0.0400
159		---	---	ND	---	0.0400
160		---	---	ND	---	0.0400
161		---	---	ND	---	0.0400
162		---	---	ND	---	0.0400
163	129/138/163	---	---	ND	---	0.120
164		---	---	ND	---	0.0400
165		---	---	ND	---	0.0400
166	128/166	---	---	ND	---	0.0800
167		---	---	ND	---	0.0400
168	153/168	---	---	ND	---	0.0800
169		---	---	ND	---	0.0400
170		---	---	ND	---	0.0400
171	171/173	---	---	ND	---	0.0800
172		---	---	ND	---	0.0400
173	171/173	---	---	ND	---	0.0800
174		---	---	ND	---	0.0400
175		---	---	ND	---	0.0400
176		---	---	ND	---	0.0400
177		---	---	ND	---	0.0400
178		---	---	ND	---	0.0400
179		---	---	ND	---	0.0400
180	180/193	---	---	ND	---	0.0800

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
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 X = Outside QC Limits
 RT = Retention Time
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**Method 1668A Polychlorobiphenyl
 Blank Analysis Results**

Lab Sample ID BLANK-106448
 Filename P230531B_07

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
181		---	---	ND	---	0.0400
182		---	---	ND	---	0.0400
183	183/185	---	---	ND	---	0.0800
184		---	---	ND	---	0.0400
185	183/185	---	---	ND	---	0.0800
186		---	---	ND	---	0.0400
187		---	---	ND	---	0.0400
188		---	---	ND	---	0.0400
189		---	---	ND	---	0.0400
190		---	---	ND	---	0.0400
191		---	---	ND	---	0.0400
192		---	---	ND	---	0.0400
193	180/193	---	---	ND	---	0.0800
194		---	---	ND	---	0.0400
195		---	---	ND	---	0.0400
196		---	---	ND	---	0.0400
197	197/200	---	---	ND	---	0.0800
198	198/199	---	---	ND	---	0.0800
199	198/199	---	---	ND	---	0.0800
200	197/200	---	---	ND	---	0.0800
201		---	---	ND	---	0.0400
202		---	---	ND	---	0.0400
203		---	---	ND	---	0.0400
204		---	---	ND	---	0.0400
205		---	---	ND	---	0.0400
206		---	---	ND	---	0.0400
207		---	---	ND	---	0.0400
208		---	---	ND	---	0.0400
209		---	---	ND	---	0.0400

Conc = Concentration
 EML =Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
 * = See Discussion
 X = Outside QC Limits
 RT = Retention Time
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**Method 1668A Polychlorobiphenyl
Blank Analysis Results**

Client Sample ID CBLKSL
Lab Sample ID BLANK-106448
Filename P230531B_07

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	ND

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyls
 Laboratory Control Spike Analysis Results**

Lab Sample ID	LCS-106283	Matrix	Water
Filename	P230529A_03	Dilution	NA
Total Amount Extracted	1000 mL	Extracted	05/23/2023 12:15
ICAL ID	P230529A02	Analyzed	05/29/2023 04:32
CCal Filename(s)	P230529A_01	Injected By	BAL
Method Blank ID	BLANK-106282		

PCB Isomer	Native Analytes			Labeled Analytes		
	Spiked (ng)	Found (ng)	% Recovery	Spiked (ng)	Found (ng)	% Recovery
1	1.0	1.04	104	2.0	1.20	60
3	1.0	0.966	97	2.0	1.44	72
4	1.0	0.996	100	2.0	1.41	71
15	1.0	1.00	100	2.0	1.60	80
19	1.0	1.03	103	2.0	1.50	75
37	1.0	0.892	89	2.0	1.54	77
54	1.0	0.983	98	2.0	1.34	67
81	1.0	0.838	84	2.0	1.65	82
77	1.0	0.832	83	2.0	1.62	81
104	1.0	0.912	91	2.0	1.37	69
105	1.0	0.842	84	2.0	1.52	76
114	1.0	0.801	80	2.0	1.48	74
118	1.0	0.823	82	2.0	1.48	74
123	1.0	0.838	84	2.0	1.47	73
126	1.0	0.860	86	2.0	1.39	70
155	1.0	0.853	85	2.0	1.51	76
156/157	2.0	1.84	92	4.0	2.70	67
167	1.0	0.909	91	2.0	1.39	69
169	1.0	0.913	91	2.0	1.61	80
188	1.0	0.897	90	2.0	1.62	81
189	1.0	0.911	91	2.0	1.64	82
202	1.0	0.945	95	2.0	1.40	70
205	1.0	0.920	92	2.0	1.71	85
206	1.0	0.904	90	2.0	1.64	82
208	1.0	0.949	95	2.0	1.77	88
209	1.0	0.918	92	2.0	1.57	78

R = Recovery outside of method 1668A control limits
 Nn = Result obtained from alternate analysis
 ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
 * = See Discussion
 ng = Nanograms
 I = Interference

REPORT OF LABORATORY ANALYSIS

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Method 1668A Polychlorobiphenyls Laboratory Control Spike Analysis Results

Lab Sample ID	LCS-106449	Matrix	Water
Filename	P230531B_03	Dilution	NA
Total Amount Extracted	1000 mL	Extracted	05/26/2023 11:40
ICAL ID	P230531B02	Analyzed	05/31/2023 23:28
CCal Filename(s)	P230531B_01	Injected By	CVS
Method Blank ID	BLANK-106448		

PCB Isomer	Native Analytes			Labeled Analytes		
	Spiked (ng)	Found (ng)	% Recovery	Spiked (ng)	Found (ng)	% Recovery
1	1.0	1.06	106	2.0	1.05	52
3	1.0	1.02	102	2.0	1.23	61
4	1.0	1.01	101	2.0	1.17	59
15	1.0	1.02	102	2.0	1.35	67
19	1.0	0.981	98	2.0	1.22	61
37	1.0	0.935	94	2.0	1.32	66
54	1.0	0.975	97	2.0	0.968	48
81	1.0	0.902	90	2.0	1.40	70
77	1.0	0.861	86	2.0	1.38	69
104	1.0	0.854	85	2.0	1.13	56
105	1.0	0.918	92	2.0	1.43	71
114	1.0	0.853	85	2.0	1.39	70
118	1.0	0.875	87	2.0	1.38	69
123	1.0	0.889	89	2.0	1.40	70
126	1.0	0.947	95	2.0	1.26	63
155	1.0	0.797	80	2.0	1.25	63
156/157	2.0	1.89	94	4.0	2.69	67
167	1.0	0.926	93	2.0	1.40	70
169	1.0	0.968	97	2.0	1.22	61
188	1.0	0.907	91	2.0	1.44	72
189	1.0	0.915	92	2.0	1.59	79
202	1.0	0.941	94	2.0	1.43	72
205	1.0	0.937	94	2.0	1.43	72
206	1.0	0.899	90	2.0	1.31	66
208	1.0	0.936	94	2.0	1.46	73
209	1.0	0.858	86	2.0	1.27	64

R = Recovery outside of method 1668A control limits
 Nn = Result obtained from alternate analysis
 ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
 * = See Discussion
 ng = Nanograms
 I = Interference

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Method 1668A Polychlorobiphenyls Laboratory Control Spike Analysis Results

Lab Sample ID	LCSD-106284	Matrix	Water
Filename	P230529A_04	Dilution	NA
Total Amount Extracted	1000 mL	Extracted	05/23/2023 12:15
ICAL ID	P230529A02	Analyzed	05/29/2023 05:35
CCal Filename(s)	P230529A_01	Injected By	BAL
Method Blank ID	BLANK-106282		

PCB Isomer	Native Analytes			Labeled Analytes		
	Spiked (ng)	Found (ng)	% Recovery	Spiked (ng)	Found (ng)	% Recovery
1	1.0	1.06	106	2.0	1.29	64
3	1.0	0.978	98	2.0	1.58	79
4	1.0	0.975	98	2.0	1.55	77
15	1.0	1.02	102	2.0	1.81	90
19	1.0	1.05	105	2.0	1.66	83
37	1.0	0.931	93	2.0	1.73	87
54	1.0	1.00	100	2.0	1.49	74
81	1.0	0.887	89	2.0	1.78	89
77	1.0	0.884	88	2.0	1.75	88
104	1.0	0.950	95	2.0	1.58	79
105	1.0	0.941	94	2.0	1.63	82
114	1.0	0.846	85	2.0	1.66	83
118	1.0	0.863	86	2.0	1.65	83
123	1.0	0.947	95	2.0	1.60	80
126	1.0	0.907	91	2.0	1.55	77
155	1.0	0.928	93	2.0	1.74	87
156/157	2.0	1.91	95	4.0	3.13	78
167	1.0	0.953	95	2.0	1.58	79
169	1.0	0.953	95	2.0	1.80	90
188	1.0	0.940	94	2.0	1.82	91
189	1.0	0.927	93	2.0	1.86	93
202	1.0	1.03	103	2.0	1.53	77
205	1.0	0.932	93	2.0	1.92	96
206	1.0	0.906	91	2.0	1.87	94
208	1.0	0.966	97	2.0	1.95	97
209	1.0	0.935	93	2.0	1.79	89

R = Recovery outside of method 1668A control limits
 Nn = Result obtained from alternate analysis
 ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
 * = See Discussion
 ng = Nanograms
 I = Interference

REPORT OF LABORATORY ANALYSIS

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Method 1668A Polychlorobiphenyls Laboratory Control Spike Analysis Results

Lab Sample ID	LCSD-106450	Matrix	Water
Filename	P230531B_04	Dilution	NA
Total Amount Extracted	1000 mL	Extracted	05/26/2023 11:40
ICAL ID	P230531B02	Analyzed	06/01/2023 00:31
CCal Filename(s)	P230531B_01	Injected By	CVS
Method Blank ID	BLANK-106448		

PCB Isomer	Native Analytes			Labeled Analytes		
	Spiked (ng)	Found (ng)	% Recovery	Spiked (ng)	Found (ng)	% Recovery
1	1.0	1.06	106	2.0	1.16	58
3	1.0	1.02	102	2.0	1.40	70
4	1.0	1.01	101	2.0	1.35	67
15	1.0	1.01	101	2.0	1.59	79
19	1.0	0.986	99	2.0	1.44	72
37	1.0	0.955	96	2.0	1.48	74
54	1.0	0.971	97	2.0	1.11	55
81	1.0	0.925	93	2.0	1.62	81
77	1.0	0.908	91	2.0	1.53	76
104	1.0	0.864	86	2.0	1.26	63
105	1.0	0.934	93	2.0	1.68	84
114	1.0	0.873	87	2.0	1.64	82
118	1.0	0.925	92	2.0	1.60	80
123	1.0	0.915	92	2.0	1.67	84
126	1.0	0.965	96	2.0	1.42	71
155	1.0	0.823	82	2.0	1.37	68
156/157	2.0	1.95	98	4.0	3.09	77
167	1.0	0.950	95	2.0	1.60	80
169	1.0	0.961	96	2.0	1.37	68
188	1.0	0.900	90	2.0	1.62	81
189	1.0	0.954	95	2.0	1.77	89
202	1.0	0.973	97	2.0	1.61	81
205	1.0	0.939	94	2.0	1.60	80
206	1.0	0.917	92	2.0	1.47	74
208	1.0	0.946	95	2.0	1.64	82
209	1.0	0.835	84	2.0	1.47	73

R = Recovery outside of method 1668A control limits
 Nn = Result obtained from alternate analysis
 ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
 * = See Discussion
 ng = Nanograms
 I = Interference

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Method 1668A

Spike Recovery Relative Percent Difference (RPD) Results

Client PACE Wisconsin

Spike 1 ID LCS-106283
Spike 1 Filename P230529A_03

Spike 2 ID LCSD-106272
Spike 2 Filename P230524A_09

Compound	IUPAC	Spike 1 %REC	Spike 2 %REC	%RPD
2-MoCB	1	104	111	6.5
4-MoCB	3	97	106	8.9
2,2'-DiCB	4	100	109	8.6
4,4'-DiCB	15	100	109	8.6
2,2',6-TrCB	19	103	112	8.4
3,4,4'-TrCB	37	89	104	15.5
2,2',6,6'-TeCB	54	98	107	8.8
3,3',4,4'-TeCB	77	83	94	12.4
3,4,4',5-TeCB	81	84	97	14.4
2,2',4,6,6'-PeCB	104	91	96	5.3
2,3,3',4,4'-PeCB	105	84	98	15.4
2,3,4,4',5-PeCB	114	80	90	11.8
2,3',4,4',5-PeCB	118	82	93	12.6
2,3,4,4',5'-PeCB	123	84	92	9.1
3,3',4,4',5-PeCB	126	86	102	17.0
2,2',4,4',6,6'-HxCB	155	85	83	2.4
(156/157)	156/157	92	98	6.3
2,3',4,4',5,5'-HxCB	167	91	95	4.3
3,3',4,4',5,5'-HxCB	169	91	103	12.4
2,2',3,4',5,6,6'-HpCB	188	90	87	3.4
2,3,3',4,4',5,5'-HpCB	189	91	98	7.4
2,2',3,3',5,5',6,6'-OcCB	202	95	101	6.1
2,3,3',4,4',5,5',6-OcCB	205	92	99	7.3
2,2',3,3',4,4',5,5',6-NoCB	206	90	102	12.5
2,2',3,3',4,4',5,5',6,6'-NoCB	208	95	101	6.1
Decachlorobiphenyl	209	92	92	0.0

%REC = Percent Recovered

RPD = The difference between the two values divided by the mean value

REPORT OF LABORATORY ANALYSIS

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Method 1668A

Spike Recovery Relative Percent Difference (RPD) Results

Client PACE Wisconsin

Spike 1 ID LCS-106449
Spike 1 Filename P230531B_03

Spike 2 ID LCSD-106450
Spike 2 Filename P230531B_04

Compound	IUPAC	Spike 1 %REC	Spike 2 %REC	%RPD
2-MoCB	1	106	106	0.0
4-MoCB	3	102	102	0.0
2,2'-DiCB	4	101	101	0.0
4,4'-DiCB	15	102	101	1.0
2,2',6-TrCB	19	98	99	1.0
3,4,4'-TrCB	37	94	96	2.1
2,2',6,6'-TeCB	54	97	97	0.0
3,3',4,4'-TeCB	77	86	91	5.6
3,4,4',5-TeCB	81	90	93	3.3
2,2',4,6,6'-PeCB	104	85	86	1.2
2,3,3',4,4'-PeCB	105	92	93	1.1
2,3,4,4',5-PeCB	114	85	87	2.3
2,3',4,4',5-PeCB	118	87	92	5.6
2,3,4,4',5'-PeCB	123	89	92	3.3
3,3',4,4',5-PeCB	126	95	96	1.0
2,2',4,4',6,6'-HxCB	155	80	82	2.5
(156/157)	156/157	94	98	4.2
2,3',4,4',5,5'-HxCB	167	93	95	2.1
3,3',4,4',5,5'-HxCB	169	97	96	1.0
2,2',3,4',5,6,6'-HpCB	188	91	90	1.1
2,3,3',4,4',5,5'-HpCB	189	92	95	3.2
2,2',3,3',5,5',6,6'-OcCB	202	94	97	3.1
2,3,3',4,4',5,5',6-OcCB	205	94	94	0.0
2,2',3,3',4,4',5,5',6-NoCB	206	90	92	2.2
2,2',3,3',4,4',5,5',6,6'-NoCB	208	94	95	1.1
Decachlorobiphenyl	209	86	84	2.4

%REC = Percent Recovered

RPD = The difference between the two values divided by the mean value

REPORT OF LABORATORY ANALYSIS

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Method 1668A Polychlorobiphenyl
Blank Analysis Results

Lab Sample ID BLANK-106282
Filename P230528A_06
Injected By BAL Matrix Water
Total Amount Extracted 1000 mL Extracted 05/23/2023 12:15
ICAL ID P230528A02 Analyzed 05/28/2023 18:02
CCal Filename(s) P230528A_01 Dilution NA

PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.238	3.07	2.0	1.04	52
13C-4-MoCB	3	13.020	3.23	2.0	1.29	65
13C-2,2'-DiCB	4	13.326	1.54	2.0	1.33	66
13C-4,4'-DiCB	15	20.415	1.60	2.0	1.42	71
13C-2,2',6-TrCB	19	17.154	1.06	2.0	1.33	67
13C-3,4,4'-TrCB	37	28.192	1.08	2.0	1.53	77
13C-2,2',6,6'-TeCB	54	20.766	0.80	2.0	1.22	61
13C-3,4,4',5'-TeCB	81	35.346	0.80	2.0	1.62	81
13C-3,3',4,4'-TeCB	77	35.934	0.79	2.0	1.60	80
13C-2,2',4,6,6'-PeCB	104	26.893	1.63	2.0	1.27	63
13C-2,3,3',4,4'-PeCB	105	39.556	1.59	2.0	1.53	76
13C-2,3,4,4',5'-PeCB	114	38.902	1.62	2.0	1.53	76
13C-2,3',4,4',5'-PeCB	118	38.348	1.57	2.0	1.57	78
13C-2,3',4,4',5'-PeCB	123	38.013	1.60	2.0	1.50	75
13C-3,3',4,4',5'-PeCB	126	42.725	1.63	2.0	1.33	67
13C-2,2',4,4',6,6'-HxCB	155	32.979	1.24	2.0	1.45	73
13C-HxCB (156/157)	156/157	45.816	1.28	4.0	2.69	67
13C-2,3',4,4',5,5'-HxCB	167	44.642	1.27	2.0	1.40	70
13C-3,3',4,4',5,5'-HxCB	169	49.103	1.28	2.0	1.55	77
13C-2,2',3,4',5,6,6'-HpCB	188	38.902	1.01	2.0	1.65	82
13C-2,3,3',4,4',5,5'-HpCB	189	51.675	1.07	2.0	1.71	86
13C-2,2',3,3',5,5',6,6'-OcCB	202	44.407	0.90	2.0	1.46	73
13C-2,3,3',4,4',5,5',6'-OcCB	205	54.284	0.89	2.0	1.71	86
13C-2,2',3,3',4,4',5,5',6'-NoCB	206	56.051	0.80	2.0	1.68	84
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.201	0.79	2.0	1.76	88
13C-DeCB	209	57.689	0.72	2.0	1.71	85
Cleanup Standards						
13C-2,4,4'-TrCB	28	23.845	1.04	2.0	1.60	80
13C-2,3,3',5,5'-PeCB	111	35.980	1.53	2.0	1.51	75
13C-2,2',3,3',5,5',6-HpCB	178	42.021	1.06	2.0	1.45	73
Recovery Standards						
13C-2,5-DiCB	9	15.795	1.60	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.841	0.77	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.180	1.59	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.551	1.27	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	53.809	0.89	2.0	NA	NA

R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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Report No.....10654073



Method 1668A Polychlorobiphenyl Blank Analysis Results

Lab Sample ID BLANK-106282
Filename P230528A_06

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.00558
2		---	---	ND	---	0.00508
3		---	---	ND	---	0.00440
4		---	---	ND	---	0.00752
5		---	---	ND	---	0.00183
6		---	---	ND	---	0.00938
7		---	---	ND	---	0.00930
8		---	---	ND	---	0.0123
9		---	---	ND	---	0.00246
10		---	---	ND	---	0.00292
11		---	---	ND	---	0.145
12	12/13	---	---	ND	---	0.00526
13	12/13	---	---	ND	---	0.00526
14		---	---	ND	---	0.00175
15		---	---	ND	---	0.00604
16		---	---	ND	---	0.00616
17		---	---	ND	---	0.00516
18	18/30	---	---	ND	---	0.0114
19		---	---	ND	---	0.00834
20	20/28	---	---	ND	---	0.0182
21	21/33	---	---	ND	---	0.0131
22		---	---	ND	---	0.00758
23		---	---	ND	---	0.00159
24		---	---	ND	---	0.00191
25		---	---	ND	---	0.00286
26	26/29	---	---	ND	---	0.00458
27		---	---	ND	---	0.00202
28	20/28	---	---	ND	---	0.0182
29	26/29	---	---	ND	---	0.00458
30	18/30	---	---	ND	---	0.0114
31		---	---	ND	---	0.0176
32		---	---	ND	---	0.00732
33	21/33	---	---	ND	---	0.0131
34		---	---	ND	---	0.00162
35		---	---	ND	---	0.00320
36		---	---	ND	---	0.00202
37		---	---	ND	---	0.00422
38		---	---	ND	---	0.00149
39		---	---	ND	---	0.00164
40	40/41/71	---	---	ND	---	0.00812
41	40/41/71	---	---	ND	---	0.00812
42		---	---	ND	---	0.00440
43	43/73	---	---	ND	---	0.00392
44	44/47/65	---	---	ND	---	0.0187
45	45/51	---	---	ND	---	0.00576

Conc = Concentration
EML = Method Reporting/Quantitation Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise (EDL)
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
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Method 1668A Polychlorobiphenyl Blank Analysis Results

Lab Sample ID BLANK-106282
Filename P230528A_06

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
46		---	---	ND	---	0.00228
47	44/47/65	---	---	ND	---	0.0187
48		---	---	ND	---	0.00292
49	49/69	---	---	ND	---	0.00676
50	50/53	---	---	ND	---	0.00380
51	45/51	---	---	ND	---	0.00576
52		---	---	ND	---	0.0166
53	50/53	---	---	ND	---	0.00380
54		---	---	ND	---	0.00161
55		---	---	ND	---	0.00216
56		---	---	ND	---	0.0101
57		---	---	ND	---	0.00150
58		---	---	ND	---	0.00191
59	59/62/75	---	---	ND	---	0.00416
60		---	---	ND	---	0.00344
61	61/70/74/76	---	---	ND	---	0.0322
62	59/62/75	---	---	ND	---	0.00416
63		---	---	ND	---	0.00175
64		---	---	ND	---	0.00562
65	44/47/65	---	---	ND	---	0.0187
66		---	---	ND	---	0.0220
67		---	---	ND	---	0.00226
68		---	---	ND	---	0.00252
69	49/69	---	---	ND	---	0.00676
70	61/70/74/76	---	---	ND	---	0.0322
71	40/41/71	---	---	ND	---	0.00812
72		---	---	ND	---	0.00177
73	43/73	---	---	ND	---	0.00392
74	61/70/74/76	---	---	ND	---	0.0322
75	59/62/75	---	---	ND	---	0.00416
76	61/70/74/76	---	---	ND	---	0.0322
77		---	---	ND	---	0.00266
78		---	---	ND	---	0.00232
79		---	---	ND	---	0.00234
80		---	---	ND	---	0.00214
81		---	---	ND	---	0.00179
82		---	---	ND	---	0.00258
83		---	---	ND	---	0.00240
84		---	---	ND	---	0.0133
85	85/116/117	---	---	ND	---	0.00522
86	86/87/97/108/119/125	---	---	ND	---	0.0153
87	86/87/97/108/119/125	---	---	ND	---	0.0153
88	88/91	---	---	ND	---	0.00496
89		---	---	ND	---	0.00314
90	90/101/113	---	---	ND	---	0.0120

Conc = Concentration
EML = Method Reporting/Quantitation Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise (EDL)
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
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**Method 1668A Polychlorobiphenyl
 Blank Analysis Results**

Lab Sample ID BLANK-106282
 Filename P230528A_06

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
91	88/91	---	---	ND	---	0.00496
92		---	---	ND	---	0.00394
93	93/98/100/102	---	---	ND	---	0.00568
94		---	---	ND	---	0.00190
95		---	---	ND	---	0.00874
96		---	---	ND	---	0.00316
97	86/87/97/108/119/125	---	---	ND	---	0.0153
98	93/98/100/102	---	---	ND	---	0.00568
99		---	---	ND	---	0.00594
100	93/98/100/102	---	---	ND	---	0.00568
101	90/101/113	---	---	ND	---	0.0120
102	93/98/100/102	---	---	ND	---	0.00568
103		---	---	ND	---	0.00197
104		---	---	ND	---	0.00153
105		---	---	ND	---	0.00570
106		---	---	ND	---	0.00179
107	107/124	---	---	ND	---	0.00264
108	86/87/97/108/119/125	---	---	ND	---	0.0153
109		---	---	ND	---	0.00200
110	110/115	---	---	ND	---	0.0130
111		---	---	ND	---	0.00206
112		---	---	ND	---	0.00178
113	90/101/113	---	---	ND	---	0.0120
114		---	---	ND	---	0.00230
115	110/115	---	---	ND	---	0.0130
116	85/116/117	---	---	ND	---	0.00522
117	85/116/117	---	---	ND	---	0.00522
118		---	---	ND	---	0.00900
119	86/87/97/108/119/125	---	---	ND	---	0.0153
120		---	---	ND	---	0.00171
121		---	---	ND	---	0.00131
122		---	---	ND	---	0.00195
123		---	---	ND	---	0.00222
124	107/124	---	---	ND	---	0.00264
125	86/87/97/108/119/125	---	---	ND	---	0.0153
126		---	---	ND	---	0.00224
127		---	---	ND	---	0.00134
128	128/166	---	---	ND	---	0.00438
129	129/138/163	---	---	ND	---	0.0110
130		---	---	ND	---	0.00220
131		---	---	ND	---	0.00284
132		---	---	ND	---	0.00414
133		---	---	ND	---	0.00268
134	134/143	---	---	ND	---	0.00402
135	135/151	---	---	ND	---	0.00522

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

ND = Not Detected
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Method 1668A Polychlorobiphenyl Blank Analysis Results

Lab Sample ID BLANK-106282
Filename P230528A_06

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
136		---	---	ND	---	0.00288
137		---	---	ND	---	0.00258
138	129/138/163	---	---	ND	---	0.0110
139	139/140	---	---	ND	---	0.00442
140	139/140	---	---	ND	---	0.00442
141		---	---	ND	---	0.00248
142		---	---	ND	---	0.00194
143	134/143	---	---	ND	---	0.00402
144		---	---	ND	---	0.00210
145		---	---	ND	---	0.00202
146		---	---	ND	---	0.00256
147	147/149	---	---	ND	---	0.00904
148		---	---	ND	---	0.00236
149	147/149	---	---	ND	---	0.00904
150		---	---	ND	---	0.00131
151	135/151	---	---	ND	---	0.00522
152		---	---	ND	---	0.00214
153	153/168	---	---	ND	---	0.00776
154		---	---	ND	---	0.00177
155		---	---	ND	---	0.00155
156	156/157	---	---	ND	---	0.00448
157	156/157	---	---	ND	---	0.00448
158		---	---	ND	---	0.00260
159		---	---	ND	---	0.00282
160		---	---	ND	---	0.00260
161		---	---	ND	---	0.00188
162		---	---	ND	---	0.00234
163	129/138/163	---	---	ND	---	0.0110
164		---	---	ND	---	0.00244
165		---	---	ND	---	0.00208
166	128/166	---	---	ND	---	0.00438
167		---	---	ND	---	0.00216
168	153/168	---	---	ND	---	0.00776
169		---	---	ND	---	0.00162
170		---	---	ND	---	0.00500
171	171/173	---	---	ND	---	0.00612
172		---	---	ND	---	0.0142
173	171/173	---	---	ND	---	0.00612
174		---	---	ND	---	0.00322
175		---	---	ND	---	0.00153
176		---	---	ND	---	0.00226
177		---	---	ND	---	0.00338
178		---	---	ND	---	0.00228
179		---	---	ND	---	0.00244
180	180/193	---	---	ND	---	0.00578

Conc = Concentration
EML = Method Reporting/Quantitation Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise (EDL)
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
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**Method 1668A Polychlorobiphenyl
 Blank Analysis Results**

Lab Sample ID BLANK-106282
 Filename P230528A_06

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
181		---	---	ND	---	0.00276
182		---	---	ND	---	0.00260
183	183/185	---	---	ND	---	0.00572
184		---	---	ND	---	0.00210
185	183/185	---	---	ND	---	0.00572
186		---	---	ND	---	0.00158
187		---	---	ND	---	0.00330
188		---	---	ND	---	0.00250
189		---	---	ND	---	0.00218
190		---	---	ND	---	0.00256
191		---	---	ND	---	0.00220
192		---	---	ND	---	0.00250
193	180/193	---	---	ND	---	0.00578
194		---	---	ND	---	0.00189
195		---	---	ND	---	0.00174
196		---	---	ND	---	0.00176
197	197/200	---	---	ND	---	0.00476
198	198/199	---	---	ND	---	0.00286
199	198/199	---	---	ND	---	0.00286
200	197/200	---	---	ND	---	0.00476
201		---	---	ND	---	0.00146
202		---	---	ND	---	0.00234
203		---	---	ND	---	0.00183
204		---	---	ND	---	0.00170
205		---	---	ND	---	0.00200
206		---	---	ND	---	0.00388
207		---	---	ND	---	0.00232
208		---	---	ND	---	0.00226
209		---	---	ND	---	0.0174

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

ND = Not Detected
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**Method 1668A Polychlorobiphenyl
Blank Analysis Results**

Client Sample ID CBLKQM
Lab Sample ID BLANK-106282
Filename P230528A_06

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	ND

ND = Not Detected

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**Method 1668A Polychlorobiphenyl
 Blank Analysis Results**

Lab Sample ID	BLANK-106448	Matrix	Water
Filename	P230531B_07	Extracted	05/26/2023 11:40
Injected By	CVS	Analyzed	06/01/2023 03:40
Total Amount Extracted	1000 mL	Dilution	NA
ICAL ID	P230531B02		
CCal Filename(s)	P230531B_01		

PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.204	3.04	2.0	0.926	46
13C-4-MoCB	3	12.997	3.09	2.0	1.09	55
13C-2,2'-DiCB	4	13.302	1.55	2.0	1.09	55
13C-4,4'-DiCB	15	20.392	1.60	2.0	1.27	63
13C-2,2',6-TrCB	19	17.132	1.03	2.0	1.13	57
13C-3,4,4'-TrCB	37	28.175	1.06	2.0	1.15	57
13C-2,2',6,6'-TeCB	54	20.734	0.79	2.0	0.873	44
13C-3,4,4',5'-TeCB	81	35.328	0.80	2.0	1.33	67
13C-3,3',4,4'-TeCB	77	35.900	0.79	2.0	1.27	64
13C-2,2',4,6,6'-PeCB	104	26.875	1.57	2.0	0.926	46
13C-2,3,3',4,4'-PeCB	105	39.534	1.62	2.0	1.45	73
13C-2,3,4,4',5'-PeCB	114	38.880	1.56	2.0	1.40	70
13C-2,3',4,4',5'-PeCB	118	38.326	1.56	2.0	1.40	70
13C-2,3',4,4',5'-PeCB	123	37.991	1.59	2.0	1.42	71
13C-3,3',4,4',5'-PeCB	126	42.703	1.59	2.0	1.24	62
13C-2,2',4,4',6,6'-HxCB	155	32.945	1.29	2.0	1.05	52
13C-HxCB (156/157)	156/157	45.793	1.27	4.0	2.76	69
13C-2,3',4,4',5,5'-HxCB	167	44.602	1.27	2.0	1.39	69
13C-3,3',4,4',5,5'-HxCB	169	49.079	1.29	2.0	1.20	60
13C-2,2',3,4',5,6,6'-HpCB	188	38.880	1.03	2.0	1.47	73
13C-2,3,3',4,4',5,5'-HpCB	189	51.647	1.08	2.0	1.68	84
13C-2,2',3,3',5,5',6,6'-OcCB	202	44.368	0.90	2.0	1.52	76
13C-2,3,3',4,4',5,5',6-OcCB	205	54.233	0.89	2.0	1.50	75
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.000	0.79	2.0	1.38	69
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.173	0.79	2.0	1.52	76
13C-DeCB	209	57.638	0.71	2.0	1.29	64
Cleanup Standards						
13C-2,4,4'-TrCB	28	23.813	1.04	2.0	1.28	64
13C-2,3,3',5,5'-PeCB	111	35.946	1.55	2.0	1.17	58
13C-2,2',3,3',5,5',6-HpCB	178	41.982	1.06	2.0	1.11	56
Recovery Standards						
13C-2,5-DiCB	9	15.772	1.62	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.823	0.79	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.146	1.59	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.529	1.25	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	53.759	0.90	2.0	NA	NA

R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

* = See Discussion
 X = Outside QC Limits
 RT = Retention Time
 I = Interference
 ng's = Nanograms

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**Method 1668A Polychlorobiphenyl
 Blank Analysis Results**

Lab Sample ID BLANK-106448
 Filename P230531B_07

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.00558
2		---	---	ND	---	0.00508
3		---	---	ND	---	0.00440
4		---	---	ND A	---	0.00935
5		16.789	1.11	--- IJA	0.00578	0.00491
6		---	---	ND	---	0.00938
7		---	---	ND	---	0.00930
8		---	---	ND	---	0.0123
9		---	---	ND A	---	0.00429
10		---	---	ND A	---	0.00572
11		---	---	ND	---	0.145
12	12/13	---	---	ND	---	0.00526
13	12/13	---	---	ND	---	0.00526
14		---	---	ND A	---	0.00440
15		---	---	ND	---	0.00604
16		---	---	ND	---	0.00616
17		---	---	ND	---	0.00516
18	18/30	---	---	ND	---	0.0114
19		---	---	ND	---	0.00834
20	20/28	---	---	ND	---	0.0182
21	21/33	---	---	ND	---	0.0131
22		---	---	ND	---	0.00758
23		---	---	ND A	---	0.00171
24		---	---	ND	---	0.00191
25		---	---	ND	---	0.00286
26	26/29	---	---	ND	---	0.00458
27		---	---	ND	---	0.00202
28	20/28	---	---	ND	---	0.0182
29	26/29	---	---	ND	---	0.00458
30	18/30	---	---	ND	---	0.0114
31		---	---	ND	---	0.0176
32		---	---	ND	---	0.00732
33	21/33	---	---	ND	---	0.0131
34		---	---	ND A	---	0.00168
35		---	---	ND	---	0.00320
36		---	---	ND	---	0.00202
37		---	---	ND	---	0.00422
38		---	---	ND A	---	0.00162
39		---	---	ND	---	0.00164
40	40/41/71	---	---	ND	---	0.00812
41	40/41/71	---	---	ND	---	0.00812
42		---	---	ND	---	0.00440
43	43/73	---	---	ND	---	0.00392
44	44/47/65	---	---	ND	---	0.0187
45	45/51	---	---	ND	---	0.00576

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
 * = See Discussion
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**Method 1668A Polychlorobiphenyl
 Blank Analysis Results**

Lab Sample ID BLANK-106448
 Filename P230531B_07

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
46		---	---	ND	---	0.00228
47	44/47/65	---	---	ND	---	0.0187
48		---	---	ND	---	0.00292
49	49/69	---	---	ND	---	0.00676
50	50/53	---	---	ND	---	0.00380
51	45/51	---	---	ND	---	0.00576
52		---	---	ND	---	0.0166
53	50/53	---	---	ND	---	0.00380
54		---	---	ND	---	0.00161
55		---	---	ND	---	0.00216
56		---	---	ND	---	0.0101
57		---	---	ND	---	0.00150
58		---	---	ND	---	0.00191
59	59/62/75	---	---	ND	---	0.00416
60		---	---	ND	---	0.00344
61	61/70/74/76	---	---	ND	---	0.0322
62	59/62/75	---	---	ND	---	0.00416
63		---	---	ND	---	0.00175
64		---	---	ND	---	0.00562
65	44/47/65	---	---	ND	---	0.0187
66		---	---	ND	---	0.0220
67		---	---	ND	---	0.00226
68		---	---	ND	---	0.00252
69	49/69	---	---	ND	---	0.00676
70	61/70/74/76	---	---	ND	---	0.0322
71	40/41/71	---	---	ND	---	0.00812
72		---	---	ND	---	0.00177
73	43/73	---	---	ND	---	0.00392
74	61/70/74/76	---	---	ND	---	0.0322
75	59/62/75	---	---	ND	---	0.00416
76	61/70/74/76	---	---	ND	---	0.0322
77		---	---	ND	---	0.00266
78		---	---	ND	---	0.00232
79		---	---	ND	---	0.00234
80		---	---	ND	---	0.00214
81		---	---	ND	---	0.00179
82		---	---	ND	---	0.00258
83		---	---	ND	---	0.00240
84		---	---	ND	---	0.0133
85	85/116/117	---	---	ND	---	0.00522
86	86/87/97/108/119/125	---	---	ND	---	0.0153
87	86/87/97/108/119/125	---	---	ND	---	0.0153
88	88/91	---	---	ND	---	0.00496
89		---	---	ND	---	0.00314
90	90/101/113	---	---	ND	---	0.0120

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

ND = Not Detected
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**Method 1668A Polychlorobiphenyl
 Blank Analysis Results**

Lab Sample ID BLANK-106448
 Filename P230531B_07

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
91	88/91	---	---	ND	---	0.00496
92		---	---	ND	---	0.00394
93	93/98/100/102	---	---	ND	---	0.00568
94		---	---	ND	---	0.00190
95		---	---	ND	---	0.00874
96		---	---	ND	---	0.00316
97	86/87/97/108/119/125	---	---	ND	---	0.0153
98	93/98/100/102	---	---	ND	---	0.00568
99		---	---	ND	---	0.00594
100	93/98/100/102	---	---	ND	---	0.00568
101	90/101/113	---	---	ND	---	0.0120
102	93/98/100/102	---	---	ND	---	0.00568
103		---	---	ND	---	0.00197
104		---	---	ND	---	0.00153
105		---	---	ND	---	0.00570
106		---	---	ND	---	0.00179
107	107/124	---	---	ND	---	0.00264
108	86/87/97/108/119/125	---	---	ND	---	0.0153
109		---	---	ND	---	0.00200
110	110/115	---	---	ND	---	0.0130
111		---	---	ND	---	0.00206
112		---	---	ND	---	0.00178
113	90/101/113	---	---	ND	---	0.0120
114		---	---	ND	---	0.00230
115	110/115	---	---	ND	---	0.0130
116	85/116/117	---	---	ND	---	0.00522
117	85/116/117	---	---	ND	---	0.00522
118		---	---	ND	---	0.00900
119	86/87/97/108/119/125	---	---	ND	---	0.0153
120		---	---	ND	---	0.00171
121		---	---	ND	---	0.00131
122		---	---	ND	---	0.00195
123		---	---	ND	---	0.00222
124	107/124	---	---	ND	---	0.00264
125	86/87/97/108/119/125	---	---	ND	---	0.0153
126		---	---	ND	---	0.00224
127		---	---	ND	---	0.00134
128	128/166	---	---	ND	---	0.00438
129	129/138/163	---	---	ND	---	0.0110
130		---	---	ND	---	0.00220
131		---	---	ND	---	0.00284
132		---	---	ND	---	0.00414
133		---	---	ND	---	0.00268
134	134/143	---	---	ND	---	0.00402
135	135/151	---	---	ND	---	0.00522

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
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**Method 1668A Polychlorobiphenyl
 Blank Analysis Results**

Lab Sample ID BLANK-106448
 Filename P230531B_07

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
136		---	---	ND	---	0.00288
137		---	---	ND	---	0.00258
138	129/138/163	---	---	ND	---	0.0110
139	139/140	---	---	ND	---	0.00442
140	139/140	---	---	ND	---	0.00442
141		---	---	ND	---	0.00248
142		---	---	ND A	---	0.00195
143	134/143	---	---	ND	---	0.00402
144		---	---	ND	---	0.00210
145		---	---	ND	---	0.00202
146		---	---	ND	---	0.00256
147	147/149	---	---	ND	---	0.00904
148		---	---	ND	---	0.00236
149	147/149	---	---	ND	---	0.00904
150		---	---	ND	---	0.00131
151	135/151	---	---	ND	---	0.00522
152		---	---	ND	---	0.00214
153	153/168	---	---	ND	---	0.00776
154		---	---	ND	---	0.00177
155		---	---	ND	---	0.00155
156	156/157	---	---	ND	---	0.00448
157	156/157	---	---	ND	---	0.00448
158		---	---	ND	---	0.00260
159		---	---	ND	---	0.00282
160		---	---	ND	---	0.00260
161		---	---	ND	---	0.00188
162		---	---	ND	---	0.00234
163	129/138/163	---	---	ND	---	0.0110
164		---	---	ND	---	0.00244
165		---	---	ND	---	0.00208
166	128/166	---	---	ND	---	0.00438
167		---	---	ND	---	0.00216
168	153/168	---	---	ND	---	0.00776
169		---	---	ND	---	0.00162
170		---	---	ND	---	0.00500
171	171/173	---	---	ND	---	0.00612
172		---	---	ND	---	0.0142
173	171/173	---	---	ND	---	0.00612
174		---	---	ND	---	0.00322
175		---	---	ND	---	0.00153
176		---	---	ND	---	0.00226
177		---	---	ND	---	0.00338
178		---	---	ND	---	0.00228
179		---	---	ND	---	0.00244
180	180/193	---	---	ND	---	0.00578

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
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ND = Not Detected
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Report No.....10654073



Method 1668A Polychlorobiphenyl Blank Analysis Results

Lab Sample ID BLANK-106448
Filename P230531B_07

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
181		---	---	ND	---	0.00276
182		---	---	ND	---	0.00260
183	183/185	---	---	ND	---	0.00572
184		---	---	ND	---	0.00210
185	183/185	---	---	ND	---	0.00572
186		---	---	ND	---	0.00158
187		---	---	ND	---	0.00330
188		---	---	ND	---	0.00250
189		---	---	ND	---	0.00218
190		---	---	ND	---	0.00256
191		---	---	ND	---	0.00220
192		---	---	ND	---	0.00250
193	180/193	---	---	ND	---	0.00578
194		---	---	ND	---	0.00189
195		---	---	ND	---	0.00174
196		---	---	ND	---	0.00176
197	197/200	---	---	ND	---	0.00476
198	198/199	---	---	ND	---	0.00286
199	198/199	---	---	ND	---	0.00286
200	197/200	---	---	ND	---	0.00476
201		---	---	ND	---	0.00146
202		---	---	ND	---	0.00234
203		---	---	ND	---	0.00183
204		---	---	ND	---	0.00170
205		---	---	ND	---	0.00200
206		---	---	ND	---	0.00388
207		---	---	ND	---	0.00232
208		---	---	ND	---	0.00226
209		---	---	ND	---	0.0174

Conc = Concentration
EML = Method Reporting/Quantitation Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise (EDL)
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference

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**Method 1668A Polychlorobiphenyl
Blank Analysis Results**

Client Sample ID CBLKSL
Lab Sample ID BLANK-106448
Filename P230531B_07

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	ND

ND = Not Detected

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Method 1668A Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-DS2-202305	Matrix	Water
Lab Sample ID	40262368001	Dilution	NA
Filename	P230529A_11	Collected	05/16/2023 11:15
Injected By	BAL	Received	05/20/2023 18:45
Total Amount Extracted	960 mL	Extracted	05/23/2023 12:15
% Moisture	NA	Analyzed	05/29/2023 12:56
Dry Weight Extracted	NA		
ICAL ID	P230529A02		
CCal Filename(s)	P230529A_01		
Method Blank ID	BLANK-106282		

PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.171	2.95	2.0	1.42	71
13C-4-MoCB	3	12.986	3.09	2.0	1.69	84
13C-2,2'-DiCB	4	13.292	1.53	2.0	2.22	111
13C-4,4'-DiCB	15	20.415	1.58	2.0	1.85	92
13C-2,2',6-TrCB	19	17.143	1.04	2.0	2.26	113
13C-3,4,4'-TrCB	37	28.223	1.04	2.0	1.37	69
13C-2,2',6,6'-TeCB	54	20.767	0.79	2.0	1.49	74
13C-3,4,4',5'-TeCB	81	35.377	0.79	2.0	1.49	75
13C-3,3',4,4'-TeCB	77	35.950	0.81	2.0	1.46	73
13C-2,2',4,6,6'-PeCB	104	26.909	1.57	2.0	1.77	89
13C-2,3,3',4,4'-PeCB	105	39.573	1.56	2.0	1.23	62
13C-2,3,4,4',5'-PeCB	114	38.919	1.58	2.0	1.25	62
13C-2,3',4,4',5'-PeCB	118	38.365	1.58	2.0	1.27	63
13C-2,3',4,4',5'-PeCB	123	38.030	1.53	2.0	1.23	62
13C-3,3',4,4',5'-PeCB	126	42.742	1.54	2.0	1.08	54
13C-2,2',4,4',6,6'-HxCB	155	32.995	1.32	2.0	2.30	115
13C-HxCB (156/157)	156/157	45.816	1.26	4.0	2.42	61
13C-2,3',4,4',5,5'-HxCB	167	44.642	1.23	2.0	1.27	63
13C-3,3',4,4',5,5'-HxCB	169	49.119	1.23	2.0	1.41	71
13C-2,2',3,4',5,6,6'-HpCB	188	38.919	1.03	2.0	2.35	118
13C-2,3,3',4,4',5,5'-HpCB	189	51.676	1.05	2.0	1.52	76
13C-2,2',3,3',5,5',6,6'-OcCB	202	44.424	0.88	2.0	1.78	89
13C-2,3,3',4,4',5,5',6-OcCB	205	54.284	0.90	2.0	1.91	96
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.051	0.80	2.0	2.10	105
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.202	0.79	2.0	2.22	111
13C-DeCB	209	57.689	0.71	2.0	2.17	108
Cleanup Standards						
13C-2,4,4'-TrCB	28	23.845	1.03	2.0	1.28	64
13C-2,3,3',5,5'-PeCB	111	35.996	1.55	2.0	1.58	79
13C-2,2',3,3',5,5',6-HpCB	178	42.038	1.03	2.0	1.79	89
Recovery Standards						
13C-2,5-DiCB	9	15.773	1.55	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.856	0.79	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.196	1.54	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.568	1.26	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	53.810	0.90	2.0	NA	NA

R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

* = See Discussion
X = Outside QC Limits
RT = Retention Time
I = Interference
ng's = Nanograms

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Method 1668A Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-DS2-202305
Lab Sample ID 40262368001
Filename P230529A_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.00581
2		---	---	ND	---	0.00529
3		---	---	ND	---	0.00458
4		---	---	ND A	---	0.0104
5		---	---	ND A	---	0.00455
6		---	---	ND	---	0.00977
7		---	---	ND	---	0.00969
8		---	---	ND	---	0.0128
9		---	---	ND A	---	0.00383
10		---	---	ND A	---	0.00783
11		---	---	ND	---	0.151
12	12/13	---	---	ND	---	0.00548
13	12/13	---	---	ND	---	0.00548
14		---	---	ND A	---	0.00401
15		---	---	ND	---	0.00629
16		---	---	ND	---	0.00642
17		---	---	ND	---	0.00537
18	18/30	---	---	ND	---	0.0119
19		---	---	ND	---	0.00869
20	20/28	---	---	ND	---	0.0190
21	21/33	---	---	ND	---	0.0137
22		---	---	ND	---	0.00789
23		---	---	ND	---	0.00165
24		---	---	ND	---	0.00199
25		---	---	ND	---	0.00298
26	26/29	---	---	ND	---	0.00477
27		---	---	ND	---	0.00210
28	20/28	---	---	ND	---	0.0190
29	26/29	---	---	ND	---	0.00477
30	18/30	---	---	ND	---	0.0119
31		---	---	ND	---	0.0184
32		---	---	ND	---	0.00762
33	21/33	---	---	ND	---	0.0137
34		---	---	ND	---	0.00169
35		---	---	ND	---	0.00333
36		---	---	ND	---	0.00210
37		---	---	ND	---	0.00440
38		---	---	ND	---	0.00155
39		---	---	ND	---	0.00171
40	40/41/71	---	---	ND	---	0.00846
41	40/41/71	---	---	ND	---	0.00846
42		---	---	ND	---	0.00458
43	43/73	---	---	ND	---	0.00408
44	44/47/65	---	---	ND	---	0.0195

Conc = Concentration
EML = Method Reporting/Quantitation Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise (EDL)
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

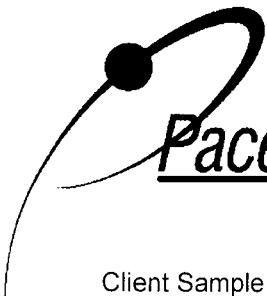
ND = Not Detected
NA = Not Applicable
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Method 1668A Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-DS2-202305
Lab Sample ID 40262368001
Filename P230529A_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
45	45/51	---	---	ND	---	0.00600
46		---	---	ND	---	0.00237
47	44/47/65	---	---	ND	---	0.0195
48		---	---	ND	---	0.00304
49	49/69	---	---	ND	---	0.00704
50	50/53	---	---	ND	---	0.00396
51	45/51	---	---	ND	---	0.00600
52		---	---	ND	---	0.0173
53	50/53	---	---	ND	---	0.00396
54		---	---	ND	---	0.00168
55		---	---	ND	---	0.00225
56		---	---	ND	---	0.0106
57		---	---	ND	---	0.00157
58		---	---	ND	---	0.00199
59	59/62/75	---	---	ND	---	0.00433
60		---	---	ND	---	0.00358
61	61/70/74/76	---	---	ND	---	0.0335
62	59/62/75	---	---	ND	---	0.00433
63		---	---	ND	---	0.00182
64		---	---	ND	---	0.00585
65	44/47/65	---	---	ND	---	0.0195
66		---	---	ND	---	0.0229
67		---	---	ND	---	0.00235
68		---	---	ND	---	0.00262
69	49/69	---	---	ND	---	0.00704
70	61/70/74/76	---	---	ND	---	0.0335
71	40/41/71	---	---	ND	---	0.00846
72		---	---	ND	---	0.00185
73	43/73	---	---	ND	---	0.00408
74	61/70/74/76	---	---	ND	---	0.0335
75	59/62/75	---	---	ND	---	0.00433
76	61/70/74/76	---	---	ND	---	0.0335
77		---	---	ND	---	0.00277
78		---	---	ND	---	0.00242
79		---	---	ND	---	0.00244
80		---	---	ND	---	0.00223
81		---	---	ND	---	0.00186
82		---	---	ND	---	0.00269
83		---	---	ND	---	0.00250
84		---	---	ND	---	0.0139
85	85/116/117	---	---	ND	---	0.00544
86	86/87/97/108/119/125	---	---	ND	---	0.0159
87	86/87/97/108/119/125	---	---	ND	---	0.0159
88	88/91	---	---	ND	---	0.00517

Conc = Concentration
EML = Method Reporting/Quantitation Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise (EDL)
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-DS2-202305
 Lab Sample ID 40262368001
 Filename P230529A_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
89		---	---	ND	---	0.00327
90	90/101/113	---	---	ND	---	0.0125
91	88/91	---	---	ND	---	0.00517
92		---	---	ND	---	0.00410
93	93/98/100/102	---	---	ND	---	0.00592
94		---	---	ND	---	0.00198
95		---	---	ND	---	0.00910
96		---	---	ND	---	0.00329
97	86/87/97/108/119/125	---	---	ND	---	0.0159
98	93/98/100/102	---	---	ND	---	0.00592
99		---	---	ND	---	0.00619
100	93/98/100/102	---	---	ND	---	0.00592
101	90/101/113	---	---	ND	---	0.0125
102	93/98/100/102	---	---	ND	---	0.00592
103		---	---	ND	---	0.00205
104		---	---	ND	---	0.00160
105		---	---	ND	---	0.00594
106		---	---	ND	---	0.00186
107	107/124	---	---	ND	---	0.00275
108	86/87/97/108/119/125	---	---	ND	---	0.0159
109		---	---	ND	---	0.00208
110	110/115	---	---	ND	---	0.0135
111		---	---	ND	---	0.00215
112		---	---	ND	---	0.00185
113	90/101/113	---	---	ND	---	0.0125
114		---	---	ND	---	0.00240
115	110/115	---	---	ND	---	0.0135
116	85/116/117	---	---	ND	---	0.00544
117	85/116/117	---	---	ND	---	0.00544
118		---	---	ND	---	0.00937
119	86/87/97/108/119/125	---	---	ND	---	0.0159
120		---	---	ND	---	0.00178
121		---	---	ND	---	0.00136
122		---	---	ND	---	0.00204
123		---	---	ND	---	0.00231
124	107/124	---	---	ND	---	0.00275
125	86/87/97/108/119/125	---	---	ND	---	0.0159
126		---	---	ND	---	0.00233
127		---	---	ND	---	0.00140
128	128/166	---	---	ND	---	0.00456
129	129/138/163	---	---	ND	---	0.0115
130		---	---	ND	---	0.00229
131		---	---	ND	---	0.00296
132		---	---	ND	---	0.00431

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-DS2-202305
 Lab Sample ID 40262368001
 Filename P230529A_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
133		---	---	ND	---	0.00279
134	134/143	---	---	ND	---	0.00419
135	135/151	---	---	ND	---	0.00544
136		---	---	ND	---	0.00300
137		---	---	ND	---	0.00269
138	129/138/163	---	---	ND	---	0.0115
139	139/140	---	---	ND	---	0.00460
140	139/140	---	---	ND	---	0.00460
141		---	---	ND	---	0.00258
142		---	---	ND A	---	0.00202
143	134/143	---	---	ND	---	0.00419
144		---	---	ND	---	0.00219
145		---	---	ND	---	0.00210
146		---	---	ND	---	0.00267
147	147/149	---	---	ND	---	0.00941
148		---	---	ND	---	0.00246
149	147/149	---	---	ND	---	0.00941
150		---	---	ND	---	0.00136
151	135/151	---	---	ND	---	0.00544
152		---	---	ND	---	0.00223
153	153/168	---	---	ND	---	0.00808
154		---	---	ND	---	0.00184
155		---	---	ND	---	0.00161
156	156/157	---	---	ND	---	0.00467
157	156/157	---	---	ND	---	0.00467
158		---	---	ND	---	0.00271
159		---	---	ND	---	0.00294
160		---	---	ND	---	0.00271
161		---	---	ND	---	0.00195
162		---	---	ND	---	0.00244
163	129/138/163	---	---	ND	---	0.0115
164		---	---	ND	---	0.00254
165		---	---	ND	---	0.00217
166	128/166	---	---	ND	---	0.00456
167		---	---	ND	---	0.00225
168	153/168	---	---	ND	---	0.00808
169		---	---	ND	---	0.00168
170		---	---	ND	---	0.00521
171	171/173	---	---	ND	---	0.00637
172		---	---	ND	---	0.0148
173	171/173	---	---	ND	---	0.00637
174		---	---	ND	---	0.00335
175		---	---	ND	---	0.00159
176		---	---	ND	---	0.00235

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
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 RT = Retention Time
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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-DS2-202305
 Lab Sample ID 40262368001
 Filename P230529A_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
177		---	---	ND	---	0.00352
178		---	---	ND	---	0.00237
179		---	---	ND	---	0.00254
180	180/193	---	---	ND	---	0.00602
181		---	---	ND	---	0.00287
182		---	---	ND	---	0.00271
183	183/185	---	---	ND	---	0.00596
184		---	---	ND	---	0.00219
185	183/185	---	---	ND	---	0.00596
186		---	---	ND	---	0.00165
187		---	---	ND	---	0.00344
188		---	---	ND	---	0.00260
189		---	---	ND	---	0.00227
190		---	---	ND	---	0.00267
191		---	---	ND	---	0.00229
192		---	---	ND	---	0.00260
193	180/193	---	---	ND	---	0.00602
194		---	---	ND	---	0.00197
195		---	---	ND A	---	0.00194
196		---	---	ND	---	0.00183
197	197/200	---	---	ND	---	0.00496
198	198/199	---	---	ND	---	0.00298
199	198/199	---	---	ND	---	0.00298
200	197/200	---	---	ND	---	0.00496
201		---	---	ND	---	0.00152
202		---	---	ND	---	0.00244
203		---	---	ND	---	0.00191
204		---	---	ND	---	0.00177
205		---	---	ND	---	0.00208
206		---	---	ND	---	0.00404
207		---	---	ND	---	0.00242
208		---	---	ND	---	0.00235
209		---	---	ND	---	0.0181

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-DS2-202305
Lab Sample ID 40262368001
Filename P230529A_11

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	ND

ND = Not Detected

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Method 1668A Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-DUP1-202305	Matrix	Water
Lab Sample ID	40262368002	Dilution	NA
Filename	P230529A_12	Collected	05/16/2023
Injected By	BAL	Received	05/20/2023 18:45
Total Amount Extracted	1040 mL	Extracted	05/23/2023 12:15
% Moisture	NA	Analyzed	05/29/2023 13:59
Dry Weight Extracted	NA		
ICAL ID	P230529A02		
CCal Filename(s)	P230529A_01		
Method Blank ID	BLANK-106282		

PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.159	2.95	2.0	1.44	72
13C-4-MoCB	3	12.975	3.04	2.0	1.62	81
13C-2,2'-DiCB	4	13.292	1.56	2.0	2.22	111
13C-4,4'-DiCB	15	20.404	1.55	2.0	1.78	89
13C-2,2',6-TrCB	19	17.121	1.02	2.0	2.31	115
13C-3,4,4'-TrCB	37	28.208	1.04	2.0	1.30	65
13C-2,2',6,6'-TeCB	54	20.751	0.77	2.0	1.50	75
13C-3,4,4',5-TeCB	81	35.362	0.76	2.0	1.38	69
13C-3,3',4,4'-TeCB	77	35.950	0.79	2.0	1.33	67
13C-2,2',4,6,6'-PeCB	104	26.908	1.73	2.0	1.72	86
13C-2,3,3',4,4'-PeCB	105	39.573	1.61	2.0	1.06	53
13C-2,3,4,4',5-PeCB	114	38.918	1.62	2.0	1.06	53
13C-2,3',4,4',5-PeCB	118	38.365	1.59	2.0	1.09	55
13C-2,3',4,4',5'-PeCB	123	38.013	1.53	2.0	1.09	54
13C-3,3',4,4',5-PeCB	126	42.742	1.55	2.0	0.936	47
13C-2,2',4,4',6,6'-HxCB	155	32.995	1.24	2.0	2.27	113
13C-HxCB (156/157)	156/157	45.816	1.27	4.0	2.19	55
13C-2,3',4,4',5,5'-HxCB	167	44.642	1.28	2.0	1.14	57
13C-3,3',4,4',5,5'-HxCB	169	49.103	1.27	2.0	1.30	65
13C-2,2',3,4',5,6,6'-HpCB	188	38.918	1.05	2.0	2.21	111
13C-2,3,3',4,4',5,5'-HpCB	189	51.676	1.05	2.0	1.46	73
13C-2,2',3,3',5,5',6,6'-OoCB	202	44.407	0.91	2.0	1.73	87
13C-2,3,3',4,4',5,5',6-OoCB	205	54.284	0.89	2.0	1.79	89
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.051	0.81	2.0	1.99	99
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.202	0.77	2.0	2.14	107
13C-DeCB	209	57.690	0.70	2.0	2.30	115
Cleanup Standards						
13C-2,4,4'-TrCB	28	23.845	1.04	2.0	1.29	65
13C-2,3,3',5,5'-PeCB	111	35.996	1.55	2.0	1.53	76
13C-2,2',3,3',5,5',6-HpCB	178	42.021	1.04	2.0	1.82	91
Recovery Standards						
13C-2,5-DiCB	9	15.762	1.56	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.856	0.76	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.196	1.55	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.568	1.24	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OoCB	194	53.810	0.90	2.0	NA	NA

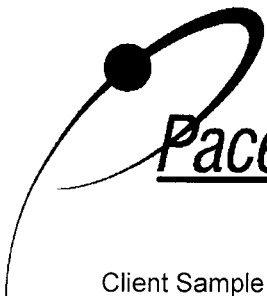
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REPORT OF LABORATORY ANALYSIS

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Report No.....10654073



Method 1668A Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-DUP1-202305
Lab Sample ID 40262368002
Filename P230529A_12

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		10.182	2.71	0.0290 J	---	0.00535
2		---	---	ND	---	0.00487
3		---	---	ND	---	0.00422
4		13.314	1.48	0.148 JA	---	0.0180
5		---	---	ND A	---	0.00460
6		16.270	1.51	0.0717 J	---	0.00899
7		15.983	1.57	0.0139 J	---	0.00891
8		16.812	1.33	0.0239 J	---	0.0117
9		15.784	1.44	0.0134 JA	---	0.00387
10		---	---	ND A	---	0.0140
11		---	---	ND	---	0.139
12	12/13	---	---	ND	---	0.00504
13	12/13	---	---	ND	---	0.00504
14		---	---	ND A	---	0.00406
15		20.437	1.33	0.0150 J	---	0.00579
16		20.371	1.02	0.0113 J	---	0.00590
17		19.851	1.05	0.154 J	---	0.00494
18	18/30	19.365	1.05	0.0975 J	---	0.0109
19		17.143	0.90	0.0925 J	---	0.00799
20	20/28	23.876	0.98	0.145 J	---	0.0174
21	21/33	24.123	0.91	0.0496 J	---	0.0126
22		24.556	0.96	0.0114 J	---	0.00726
23		---	---	ND	---	0.00152
24		---	---	ND	---	0.00183
25		23.180	0.95	0.140 J	---	0.00274
26	26/29	22.917	1.10	0.260 J	---	0.00439
27		20.094	1.10	0.0223 J	---	0.00194
28	20/28	23.876	0.98	(0.145) J	---	0.0174
29	26/29	22.917	1.10	(0.260) J	---	0.00439
30	18/30	19.365	1.05	(0.0975) J	---	0.0109
31		23.520	1.04	0.0742 J	---	0.0169
32		20.983	1.01	0.0626 J	---	0.00701
33	21/33	24.123	0.91	(0.0496) J	---	0.0126
34		22.437	0.88	0.0114 J	---	0.00156
35		---	---	ND	---	0.00307
36		---	---	ND	---	0.00194
37		28.223	1.10	0.0164 J	---	0.00404
38		---	---	ND	---	0.00142
39		---	---	ND	---	0.00158
40	40/41/71	28.068	0.76	0.306 J	---	0.00778
41	40/41/71	28.068	0.76	(0.306) J	---	0.00778
42		27.527	0.76	0.206 J	---	0.00422
43	43/73	26.042	0.83	0.0337 J	---	0.00376
44	44/47/65	27.032	0.75	0.917 J	---	0.0179

Conc = Concentration
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Report No.....10654073

**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-DUP1-202305
 Lab Sample ID 40262368002
 Filename P230529A_12

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
45	45/51	24.061	0.77	0.152 J	---	0.00552
46		24.309	0.71	0.0796 J	---	0.00218
47	44/47/65	27.032	0.75	(0.917) J	---	0.0179
48		26.753	0.82	0.00975 J	---	0.00280
49	49/69	26.413	0.78	1.34	---	0.00648
50	50/53	23.211	0.79	0.288 J	---	0.00364
51	45/51	24.061	0.77	(0.152) J	---	0.00552
52		25.872	0.76	1.88	---	0.0159
53	50/53	23.211	0.79	(0.288) J	---	0.00364
54		20.766	0.74	0.0146 J	---	0.00154
55		---	---	ND A	---	0.00273
56		32.082	0.69	0.0568 J	---	0.00971
57		29.962	0.85	0.0356 JA	---	0.00231
58		30.210	0.67	0.00949 JA	---	0.00261
59	59/62/75	27.388	0.77	0.0494 J	---	0.00399
60		32.329	0.88	0.00913 J	---	0.00330
61	61/70/74/76	31.030	0.76	0.411 J	---	0.0308
62	59/62/75	27.388	0.77	(0.0494) J	---	0.00399
63		30.674	0.66	0.0290 JA	---	0.00245
64		28.300	0.78	0.150 J	---	0.00538
65	44/47/65	27.032	0.75	(0.917) J	---	0.0179
66		31.386	0.77	0.330 J	---	0.0211
67		30.411	0.77	0.0248 JA	---	0.00229
68		29.514	0.73	0.0329 JA	---	0.00243
69	49/69	26.413	0.78	(1.34)	---	0.00648
70	61/70/74/76	31.030	0.76	(0.411) J	---	0.0308
71	40/41/71	28.068	0.76	(0.306) J	---	0.00778
72		29.204	0.71	0.0473 JA	---	0.00245
73	43/73	26.042	0.83	(0.0337) J	---	0.00376
74	61/70/74/76	31.030	0.76	(0.411) J	---	0.0308
75	59/62/75	27.388	0.77	(0.0494) J	---	0.00399
76	61/70/74/76	31.030	0.76	(0.411) J	---	0.0308
77		35.965	0.77	0.0257 JA	---	0.00290
78		---	---	ND A	---	0.00255
79		34.325	0.65	0.00885 J	---	0.00224
80		---	---	ND A	---	0.00229
81		---	---	ND A	---	0.00274
82		35.594	1.56	0.110 J	---	0.00247
83		33.706	1.56	0.144 J	---	0.00230
84		31.246	1.46	0.489	---	0.0128
85	85/116/117	35.114	1.65	0.319 J	---	0.00500
86	86/87/97/108/119/125	34.356	1.59	1.03 J	---	0.0146
87	86/87/97/108/119/125	34.356	1.59	(1.03) J	---	0.0146
88	88/91	31.030	1.56	0.382 J	---	0.00475

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Report No.....10654073



Method 1668A Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-DUP1-202305
Lab Sample ID 40262368002
Filename P230529A_12

Table with 7 columns: IUPAC, Co-elutions, RT, Ratio, Concentration ng/L, EMPC ng/L, EML ng/L. Rows 89-132.

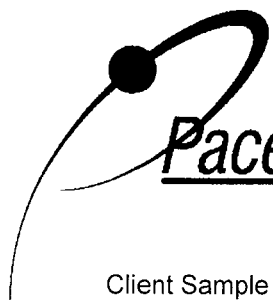
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Method 1668A Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-DUP1-202305
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Filename P230529A_12

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
133		39.019	1.24	0.0352 JA	---	0.00356
134	134/143	37.409	1.12	0.118 JA	---	0.00408
135	135/151	36.259	1.23	0.693 J	---	0.00500
136		33.722	1.20	0.247 J	---	0.00276
137		41.166	1.28	0.0724 JA	---	0.00323
138	129/138/163	41.602	1.22	(1.35) J	---	0.0105
139	139/140	37.812	1.07	0.0364 J	---	0.00423
140	139/140	37.812	1.07	(0.0364) J	---	0.00423
141		40.512	1.16	0.166 JA	---	0.00335
142		---	---	ND A	---	0.00368
143	134/143	37.409	1.12	(0.118) JA	---	0.00408
144		36.832	1.27	0.0628 JA	---	0.00252
145		---	---	ND	---	0.00194
146		39.690	1.24	0.215 JA	---	0.00306
147	147/149	37.208	1.22	1.16	---	0.00866
148		35.640	1.46	--- IJA	0.00561	0.00261
149	147/149	37.208	1.22	(1.16)	---	0.00866
150		33.366	1.37	0.00502 JA	---	0.00190
151	135/151	36.259	1.23	(0.693) J	---	0.00500
152		33.180	0.80	--- IJ	0.00322	0.00205
153	153/168	40.311	1.20	1.00	---	0.00743
154		36.522	1.22	0.0390 JA	---	0.00220
155		---	---	ND	---	0.00148
156	156/157	45.816	1.29	0.171 J	---	0.00429
157	156/157	45.816	1.29	(0.171) J	---	0.00429
158		42.004	1.20	0.123 J	---	0.00249
159		---	---	ND	---	0.00270
160		---	---	ND	---	0.00249
161		---	---	ND A	---	0.00256
162		44.173	1.42	0.00385 J	---	0.00224
163	129/138/163	41.602	1.22	(1.35) J	---	0.0105
164		41.266	1.13	0.0877 JA	---	0.00239
165		39.405	1.04	--- IJA	0.00322	0.00278
166	128/166	42.876	1.23	(0.255) J	---	0.00420
167		44.659	1.14	0.0598 J	---	0.00207
168	153/168	40.311	1.20	(1.00)	---	0.00743
169		---	---	ND A	---	0.00156
170		48.533	1.09	0.122 J	---	0.00479
171	171/173	44.961	0.98	0.0465 J	---	0.00586
172		46.570	1.00	0.0216 J	---	0.0136
173	171/173	44.961	0.98	(0.0465) J	---	0.00586
174		43.837	1.05	0.113 J	---	0.00308
175		42.725	1.13	0.00701 JA	---	0.00192
176		40.193	1.03	0.0205 J	---	0.00217

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Method 1668A Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-DUP1-202305
Lab Sample ID 40262368002
Filename P230529A_12

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
177		44.306	0.98	0.0861 J	---	0.00324
178		42.038	0.99	0.0391 J	---	0.00218
179		39.271	1.06	0.0779 J	---	0.00234
180	180/193	47.258	1.06	0.188 J	---	0.00554
181		44.709	0.93	0.00403 J	---	0.00264
182		---	---	ND	---	0.00249
183	183/185	43.619	0.96	0.0754 J	---	0.00548
184		---	---	ND	---	0.00201
185	183/185	43.619	0.96	(0.0754) J	---	0.00548
186		---	---	ND A	---	0.00160
187		42.993	1.06	0.178 J	---	0.00316
188		---	---	ND	---	0.00240
189		51.676	1.33	---	0.00912	0.00209
190		49.086	0.94	0.0252 J	---	0.00245
191		47.611	1.04	0.00428 J	---	0.00211
192		---	---	ND	---	0.00240
193	180/193	47.258	1.06	(0.188) J	---	0.00554
194		53.853	0.91	0.0333 J	---	0.00181
195		51.482	0.88	0.0142 J	---	0.00167
196		49.924	0.89	0.0185 J	---	0.00169
197	197/200	46.386	1.03	---	0.00676	0.00456
198	198/199	49.254	0.76	0.0502 J	---	0.00274
199	198/199	49.254	0.76	(0.0502) J	---	0.00274
200	197/200	46.386	1.03	---	(0.00676)	0.00456
201		45.397	1.16	---	0.00391	0.00139
202		44.458	0.71	---	0.00788	0.00224
203		50.109	0.84	0.0232 J	---	0.00176
204		---	---	ND	---	0.00163
205		54.284	1.07	---	0.00229	0.00192
206		56.051	0.77	0.0117 J	---	0.00372
207		---	---	ND	---	0.00222
208		51.245	0.98	---	0.00220	0.00217
209		---	---	ND	---	0.0167

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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-DUP1-202305
Lab Sample ID 40262368002
Filename P230529A_12

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	0.0290
Total Dichloro Biphenyls	0.286
Total Trichloro Biphenyls	1.15
Total Tetrachloro Biphenyls	6.45
Total Pentachloro Biphenyls	12.0
Total Hexachloro Biphenyls	6.57
Total Heptachloro Biphenyls	1.01
Total Octachloro Biphenyls	0.139
Total Nonachloro Biphenyls	0.0117
Decachloro Biphenyls	ND
Total PCBs	27.7

ND = Not Detected

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Method 1668A Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-EB-202305	Matrix	Water
Lab Sample ID	40262368003	Dilution	NA
Filename	P230529B_04	Collected	05/16/2023 11:30
Injected By	BAL	Received	05/20/2023 18:45
Total Amount Extracted	1040 mL	Extracted	05/23/2023 12:15
% Moisture	NA	Analyzed	05/29/2023 19:14
Dry Weight Extracted	NA		
ICAL ID	P230529B02		
CCal Filename(s)	P230529B_01		
Method Blank ID	BLANK-106282		

PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.148	2.98	2.0	1.47	74
13C-4-MoCB	3	12.975	3.09	2.0	1.78	89
13C-2,2'-DiCB	4	13.280	1.62	2.0	2.41	120
13C-4,4'-DiCB	15	20.415	1.57	2.0	1.87	94
13C-2,2',6-TrCB	19	17.132	1.00	2.0	2.38	119
13C-3,4,4'-TrCB	37	28.223	1.02	2.0	1.32	66
13C-2,2',6,6'-TeCB	54	20.766	0.79	2.0	1.57	78
13C-3,4,4',5'-TeCB	81	35.377	0.76	2.0	1.40	70
13C-3,3',4,4'-TeCB	77	35.950	0.76	2.0	1.34	67
13C-2,2',4,6,6'-PeCB	104	26.908	1.55	2.0	1.92	96
13C-2,3,3',4,4'-PeCB	105	39.572	1.60	2.0	1.24	62
13C-2,3,4,4',5'-PeCB	114	38.918	1.55	2.0	1.22	61
13C-2,3',4,4',5'-PeCB	118	38.365	1.54	2.0	1.21	60
13C-2,3',4,4',5'-PeCB	123	38.030	1.57	2.0	1.22	61
13C-3,3',4,4',5'-PeCB	126	42.742	1.54	2.0	1.10	55
13C-2,2',4,4',6,6'-HxCB	155	32.995	1.24	2.0	2.31	115
13C-HxCB (156/157)	156/157	45.833	1.25	4.0	2.39	60
13C-2,3',4,4',5,5'-HxCB	167	44.659	1.24	2.0	1.26	63
13C-3,3',4,4',5,5'-HxCB	169	49.119	1.30	2.0	1.35	67
13C-2,2',3,4',5,6,6'-HpCB	188	38.935	1.04	2.0	2.48	124
13C-2,3,3',4,4',5,5'-HpCB	189	51.676	1.02	2.0	1.53	77
13C-2,2',3,3',5,5',6,6'-OcCB	202	44.408	0.86	2.0	1.88	94
13C-2,3,3',4,4',5,5',6-OcCB	205	54.305	0.86	2.0	1.87	93
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.051	0.81	2.0	2.10	105
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.223	0.79	2.0	2.29	114
13C-DeCB	209	57.689	0.69	2.0	2.20	110
Cleanup Standards						
13C-2,4,4'-TrCB	28	23.845	1.03	2.0	1.22	61
13C-2,3,3',5,5'-PeCB	111	35.996	1.57	2.0	1.53	77
13C-2,2',3,3',5,5',6-HpCB	178	42.037	1.06	2.0	1.78	89
Recovery Standards						
13C-2,5-DiCB	9	15.762	1.54	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.856	0.74	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.211	1.55	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.585	1.23	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	53.810	0.87	2.0	NA	NA

R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

* = See Discussion
X = Outside QC Limits
RT = Retention Time
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ng's = Nanograms

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Method 1668A Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-EB-202305
Lab Sample ID 40262368003
Filename P230529B_04

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.00537
2		---	---	ND	---	0.00489
3		---	---	ND	---	0.00423
4		---	---	ND A	---	0.0120
5		---	---	ND A	---	0.00677
6		---	---	ND	---	0.00903
7		---	---	ND	---	0.00895
8		---	---	ND	---	0.0118
9		---	---	ND A	---	0.00590
10		---	---	ND A	---	0.00833
11		---	---	ND	---	0.140
12	12/13	---	---	ND A	---	0.00634
13	12/13	---	---	ND A	---	0.00634
14		---	---	ND A	---	0.00610
15		---	---	ND A	---	0.00608
16		---	---	ND	---	0.00593
17		---	---	ND	---	0.00496
18	18/30	---	---	ND	---	0.0110
19		---	---	ND	---	0.00802
20	20/28	---	---	ND	---	0.0175
21	21/33	---	---	ND	---	0.0126
22		---	---	ND	---	0.00729
23		---	---	ND A	---	0.00170
24		---	---	ND	---	0.00184
25		---	---	ND	---	0.00275
26	26/29	---	---	ND	---	0.00441
27		---	---	ND	---	0.00194
28	20/28	---	---	ND	---	0.0175
29	26/29	---	---	ND	---	0.00441
30	18/30	---	---	ND	---	0.0110
31		---	---	ND	---	0.0170
32		---	---	ND	---	0.00704
33	21/33	---	---	ND	---	0.0126
34		---	---	ND A	---	0.00170
35		---	---	ND	---	0.00308
36		---	---	ND	---	0.00194
37		---	---	ND	---	0.00406
38		---	---	ND A	---	0.00160
39		---	---	ND	---	0.00158
40	40/41/71	---	---	ND	---	0.00781
41	40/41/71	---	---	ND	---	0.00781
42		---	---	ND	---	0.00423
43	43/73	---	---	ND	---	0.00377
44	44/47/65	---	---	ND	---	0.0180

Conc = Concentration
EML =Method Reporting/Quantitation Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise (EDL)
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-EB-202305
 Lab Sample ID 40262368003
 Filename P230529B_04

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
45	45/51	---	---	ND	---	0.00554
46		---	---	ND	---	0.00219
47	44/47/65	---	---	ND	---	0.0180
48		---	---	ND	---	0.00281
49	49/69	---	---	ND	---	0.00650
50	50/53	---	---	ND	---	0.00366
51	45/51	---	---	ND	---	0.00554
52		---	---	ND	---	0.0160
53	50/53	---	---	ND	---	0.00366
54		---	---	ND	---	0.00155
55		---	---	ND	---	0.00208
56		---	---	ND	---	0.00976
57		---	---	ND A	---	0.00159
58		---	---	ND	---	0.00183
59	59/62/75	---	---	ND	---	0.00400
60		---	---	ND	---	0.00331
61	61/70/74/76	---	---	ND	---	0.0310
62	59/62/75	---	---	ND	---	0.00400
63		---	---	ND	---	0.00168
64		---	---	ND	---	0.00541
65	44/47/65	---	---	ND	---	0.0180
66		---	---	ND	---	0.0212
67		---	---	ND	---	0.00217
68		---	---	ND	---	0.00242
69	49/69	---	---	ND	---	0.00650
70	61/70/74/76	---	---	ND	---	0.0310
71	40/41/71	---	---	ND	---	0.00781
72		---	---	ND	---	0.00171
73	43/73	---	---	ND	---	0.00377
74	61/70/74/76	---	---	ND	---	0.0310
75	59/62/75	---	---	ND	---	0.00400
76	61/70/74/76	---	---	ND	---	0.0310
77		---	---	ND	---	0.00256
78		---	---	ND	---	0.00223
79		---	---	ND	---	0.00225
80		---	---	ND	---	0.00206
81		---	---	ND	---	0.00172
82		---	---	ND	---	0.00248
83		---	---	ND	---	0.00231
84		---	---	ND	---	0.0128
85	85/116/117	---	---	ND	---	0.00502
86	86/87/97/108/119/125	---	---	ND	---	0.0147
87	86/87/97/108/119/125	---	---	ND	---	0.0147
88	88/91	---	---	ND	---	0.00477

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

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Report No.....10654073



Method 1668A Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-EB-202305
Lab Sample ID 40262368003
Filename P230529B_04

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
89		---	---	ND	---	0.00302
90	90/101/113	---	---	ND	---	0.0115
91	88/91	---	---	ND	---	0.00477
92		---	---	ND	---	0.00379
93	93/98/100/102	---	---	ND	---	0.00547
94		---	---	ND	---	0.00183
95		---	---	ND	---	0.00841
96		---	---	ND	---	0.00304
97	86/87/97/108/119/125	---	---	ND	---	0.0147
98	93/98/100/102	---	---	ND	---	0.00547
99		---	---	ND	---	0.00572
100	93/98/100/102	---	---	ND	---	0.00547
101	90/101/113	---	---	ND	---	0.0115
102	93/98/100/102	---	---	ND	---	0.00547
103		---	---	ND	---	0.00189
104		---	---	ND	---	0.00148
105		---	---	ND	---	0.00548
106		---	---	ND A	---	0.00182
107	107/124	---	---	ND	---	0.00254
108	86/87/97/108/119/125	---	---	ND	---	0.0147
109		---	---	ND	---	0.00192
110	110/115	---	---	ND	---	0.0125
111		---	---	ND	---	0.00198
112		---	---	ND	---	0.00171
113	90/101/113	---	---	ND	---	0.0115
114		---	---	ND	---	0.00221
115	110/115	---	---	ND	---	0.0125
116	85/116/117	---	---	ND	---	0.00502
117	85/116/117	---	---	ND	---	0.00502
118		---	---	ND	---	0.00866
119	86/87/97/108/119/125	---	---	ND	---	0.0147
120		---	---	ND	---	0.00165
121		---	---	ND	---	0.00126
122		---	---	ND A	---	0.00212
123		---	---	ND	---	0.00214
124	107/124	---	---	ND	---	0.00254
125	86/87/97/108/119/125	---	---	ND	---	0.0147
126		---	---	ND	---	0.00216
127		---	---	ND A	---	0.00187
128	128/166	---	---	ND	---	0.00421
129	129/138/163	---	---	ND	---	0.0106
130		---	---	ND	---	0.00212
131		---	---	ND	---	0.00273
132		---	---	ND	---	0.00398

Conc = Concentration
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Method 1668A Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-EB-202305
Lab Sample ID 40262368003
Filename P230529B_04

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
133		---	---	ND	---	0.00258
134	134/143	---	---	ND	---	0.00387
135	135/151	---	---	ND	---	0.00502
136		---	---	ND	---	0.00277
137		---	---	ND	---	0.00248
138	129/138/163	---	---	ND	---	0.0106
139	139/140	---	---	ND	---	0.00425
140	139/140	---	---	ND	---	0.00425
141		---	---	ND	---	0.00239
142		---	---	ND	---	0.00187
143	134/143	---	---	ND	---	0.00387
144		---	---	ND	---	0.00202
145		---	---	ND	---	0.00194
146		---	---	ND	---	0.00246
147	147/149	---	---	ND	---	0.00870
148		---	---	ND	---	0.00227
149	147/149	---	---	ND	---	0.00870
150		---	---	ND A	---	0.00135
151	135/151	---	---	ND	---	0.00502
152		---	---	ND	---	0.00206
153	153/168	---	---	ND	---	0.00747
154		---	---	ND	---	0.00170
155		---	---	ND	---	0.00149
156	156/157	---	---	ND	---	0.00431
157	156/157	---	---	ND	---	0.00431
158		---	---	ND	---	0.00250
159		---	---	ND	---	0.00271
160		---	---	ND	---	0.00250
161		---	---	ND	---	0.00181
162		---	---	ND	---	0.00225
163	129/138/163	---	---	ND	---	0.0106
164		---	---	ND	---	0.00235
165		---	---	ND	---	0.00200
166	128/166	---	---	ND	---	0.00421
167		---	---	ND	---	0.00208
168	153/168	---	---	ND	---	0.00747
169		---	---	ND	---	0.00155
170		---	---	ND	---	0.00481
171	171/173	---	---	ND	---	0.00589
172		---	---	ND	---	0.0136
173	171/173	---	---	ND	---	0.00589
174		---	---	ND	---	0.00310
175		---	---	ND	---	0.00147
176		---	---	ND	---	0.00217

Conc = Concentration
EML = Method Reporting/Quantitation Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise (EDL)
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-EB-202305
 Lab Sample ID 40262368003
 Filename P230529B_04

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
177		---	---	ND	---	0.00325
178		---	---	ND	---	0.00219
179		---	---	ND	---	0.00235
180	180/193	---	---	ND	---	0.00556
181		---	---	ND	---	0.00266
182		---	---	ND	---	0.00250
183	183/185	---	---	ND	---	0.00550
184		---	---	ND	---	0.00202
185	183/185	---	---	ND	---	0.00550
186		---	---	ND	---	0.00152
187		---	---	ND	---	0.00318
188		---	---	ND	---	0.00241
189		---	---	ND	---	0.00210
190		---	---	ND	---	0.00246
191		---	---	ND	---	0.00212
192		---	---	ND	---	0.00241
193	180/193	---	---	ND	---	0.00556
194		---	---	ND	---	0.00182
195		---	---	ND A	---	0.00191
196		---	---	ND	---	0.00169
197	197/200	---	---	ND	---	0.00458
198	198/199	---	---	ND	---	0.00275
199	198/199	---	---	ND	---	0.00275
200	197/200	---	---	ND	---	0.00458
201		---	---	ND	---	0.00140
202		---	---	ND	---	0.00225
203		---	---	ND	---	0.00176
204		---	---	ND	---	0.00164
205		---	---	ND	---	0.00192
206		---	---	ND	---	0.00373
207		---	---	ND	---	0.00223
208		---	---	ND	---	0.00217
209		---	---	ND	---	0.0167

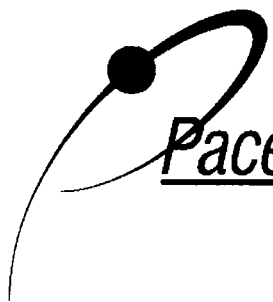
Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
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Report No.....10654073



**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-EB-202305
Lab Sample ID 40262368003
Filename P230529B_04

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	ND

ND = Not Detected

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Method 1668A Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-FB-202305	Matrix	Water
Lab Sample ID	40262368004	Dilution	NA
Filename	P230529B_05	Collected	05/16/2023 11:45
Injected By	BAL	Received	05/20/2023 18:45
Total Amount Extracted	1050 mL	Extracted	05/23/2023 12:15
% Moisture	NA	Analyzed	05/29/2023 20:17
Dry Weight Extracted	NA		
ICAL ID	P230529B02		
CCal Filename(s)	P230529B_01		
Method Blank ID	BLANK-106282		

PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.170	3.03	2.0	1.42	71
13C-4-MoCB	3	12.986	3.08	2.0	1.57	79
13C-2,2'-DiCB	4	13.303	1.53	2.0	2.14	107
13C-4,4'-DiCB	15	20.415	1.56	2.0	1.67	84
13C-2,2',6-TrCB	19	17.143	1.02	2.0	2.05	103
13C-3,4,4'-TrCB	37	28.223	1.03	2.0	1.21	60
13C-2,2',6,6'-TeCB	54	20.751	0.79	2.0	1.34	67
13C-3,4,4',5'-TeCB	81	35.362	0.79	2.0	1.28	64
13C-3,3',4,4'-TeCB	77	35.950	0.80	2.0	1.23	61
13C-2,2',4,6,6'-PeCB	104	26.923	1.62	2.0	1.70	85
13C-2,3,3',4,4'-PeCB	105	39.573	1.59	2.0	1.07	53
13C-2,3,4,4',5'-PeCB	114	38.918	1.61	2.0	1.07	53
13C-2,3',4,4',5'-PeCB	118	38.365	1.62	2.0	1.11	55
13C-2,3',4,4',5'-PeCB	123	38.030	1.58	2.0	1.13	56
13C-3,3',4,4',5'-PeCB	126	42.742	1.60	2.0	0.995	50
13C-2,2',4,4',6,6'-HxCB	155	32.995	1.23	2.0	2.11	106
13C-HxCB (156/157)	156/157	45.816	1.26	4.0	2.23	56
13C-2,3',4,4',5,5'-HxCB	167	44.642	1.27	2.0	1.14	57
13C-3,3',4,4',5,5'-HxCB	169	49.103	1.30	2.0	1.28	64
13C-2,2',3,4',5,6,6'-HpCB	188	38.918	1.04	2.0	2.07	103
13C-2,3,3',4,4',5,5'-HpCB	189	51.675	1.09	2.0	1.38	69
13C-2,2',3,3',5,5',6,6'-OxCB	202	44.407	0.88	2.0	1.58	79
13C-2,3,3',4,4',5,5',6-OxCB	205	54.283	0.88	2.0	1.70	85
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.051	0.79	2.0	1.88	94
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.201	0.79	2.0	1.96	98
13C-DeCB	209	57.689	0.71	2.0	2.07	104
Cleanup Standards						
13C-2,4,4'-TrCB	28	23.845	1.02	2.0	1.09	54
13C-2,3,3',5,5'-PeCB	111	35.996	1.54	2.0	1.37	69
13C-2,2',3,3',5,5',6-HpCB	178	42.021	1.02	2.0	1.56	78
Recovery Standards						
13C-2,5-DiCB	9	15.773	1.52	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.856	0.76	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.196	1.57	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.568	1.24	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OxCB	194	53.809	0.91	2.0	NA	NA

R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

* = See Discussion
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Method 1668A Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-FB-202305
Lab Sample ID 40262368004
Filename P230529B_05

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.00533
2		---	---	ND	---	0.00486
3		---	---	ND	---	0.00421
4		---	---	ND A	---	0.0218
5		---	---	ND A	---	0.00677
6		---	---	ND	---	0.00897
7		---	---	ND	---	0.00889
8		---	---	ND	---	0.0117
9		---	---	ND A	---	0.00590
10		---	---	ND A	---	0.0152
11		---	---	ND	---	0.139
12	12/13	---	---	ND A	---	0.00633
13	12/13	---	---	ND A	---	0.00633
14		---	---	ND A	---	0.00610
15		---	---	ND A	---	0.00612
16		---	---	ND	---	0.00589
17		---	---	ND	---	0.00493
18	18/30	---	---	ND	---	0.0109
19		---	---	ND	---	0.00797
20	20/28	---	---	ND	---	0.0174
21	21/33	---	---	ND	---	0.0126
22		---	---	ND	---	0.00724
23		---	---	ND A	---	0.00235
24		---	---	ND	---	0.00183
25		---	---	ND	---	0.00273
26	26/29	---	---	ND	---	0.00438
27		---	---	ND	---	0.00193
28	20/28	---	---	ND	---	0.0174
29	26/29	---	---	ND	---	0.00438
30	18/30	---	---	ND	---	0.0109
31		---	---	ND	---	0.0168
32		---	---	ND	---	0.00700
33	21/33	---	---	ND	---	0.0126
34		---	---	ND A	---	0.00280
35		---	---	ND	---	0.00306
36		---	---	ND A	---	0.00220
37		---	---	ND	---	0.00403
38		---	---	ND A	---	0.00222
39		---	---	ND A	---	0.00215
40	40/41/71	---	---	ND	---	0.00776
41	40/41/71	---	---	ND	---	0.00776
42		---	---	ND	---	0.00421
43	43/73	---	---	ND	---	0.00375
44	44/47/65	---	---	ND	---	0.0179

Conc = Concentration
EML = Method Reporting/Quantitation Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise (EDL)
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion
X = Outside QC Limits
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ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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Method 1668A Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-FB-202305
Lab Sample ID 40262368004
Filename P230529B_05

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
45	45/51	---	---	ND	---	0.00551
46		---	---	ND A	---	0.00268
47	44/47/65	---	---	ND	---	0.0179
48		---	---	ND	---	0.00279
49	49/69	---	---	ND	---	0.00646
50	50/53	---	---	ND	---	0.00363
51	45/51	---	---	ND	---	0.00551
52		---	---	ND	---	0.0159
53	50/53	---	---	ND	---	0.00363
54		---	---	ND A	---	0.00160
55		---	---	ND	---	0.00206
56		---	---	ND	---	0.00969
57		---	---	ND A	---	0.00177
58		---	---	ND A	---	0.00196
59	59/62/75	---	---	ND	---	0.00398
60		---	---	ND	---	0.00329
61	61/70/74/76	---	---	ND	---	0.0308
62	59/62/75	---	---	ND	---	0.00398
63		---	---	ND A	---	0.00186
64		---	---	ND	---	0.00537
65	44/47/65	---	---	ND	---	0.0179
66		---	---	ND	---	0.0210
67		---	---	ND	---	0.00216
68		---	---	ND	---	0.00241
69	49/69	---	---	ND	---	0.00646
70	61/70/74/76	---	---	ND	---	0.0308
71	40/41/71	---	---	ND	---	0.00776
72		---	---	ND A	---	0.00185
73	43/73	---	---	ND	---	0.00375
74	61/70/74/76	---	---	ND	---	0.0308
75	59/62/75	---	---	ND	---	0.00398
76	61/70/74/76	---	---	ND	---	0.0308
77		---	---	ND	---	0.00254
78		---	---	ND	---	0.00222
79		---	---	ND	---	0.00224
80		---	---	ND	---	0.00205
81		---	---	ND	---	0.00171
82		---	---	ND	---	0.00247
83		---	---	ND	---	0.00229
84		---	---	ND	---	0.0127
85	85/116/117	---	---	ND	---	0.00499
86	86/87/97/108/119/125	---	---	ND	---	0.0146
87	86/87/97/108/119/125	---	---	ND	---	0.0146
88	88/91	---	---	ND	---	0.00474

Conc = Concentration
EML = Method Reporting/Quantitation Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise (EDL)
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
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Method 1668A Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-FB-202305
Lab Sample ID 40262368004
Filename P230529B_05

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
89		---	---	ND	---	0.00300
90	90/101/113	---	---	ND	---	0.0115
91	88/91	---	---	ND	---	0.00474
92		---	---	ND	---	0.00377
93	93/98/100/102	---	---	ND	---	0.00543
94		---	---	ND A	---	0.00202
95		---	---	ND	---	0.00835
96		---	---	ND	---	0.00302
97	86/87/97/108/119/125	---	---	ND	---	0.0146
98	93/98/100/102	---	---	ND	---	0.00543
99		---	---	ND	---	0.00568
100	93/98/100/102	---	---	ND	---	0.00543
101	90/101/113	---	---	ND	---	0.0115
102	93/98/100/102	---	---	ND	---	0.00543
103		---	---	ND	---	0.00188
104		---	---	ND	---	0.00147
105		---	---	ND	---	0.00545
106		---	---	ND A	---	0.00189
107	107/124	---	---	ND	---	0.00252
108	86/87/97/108/119/125	---	---	ND	---	0.0146
109		---	---	ND A	---	0.00195
110	110/115	---	---	ND	---	0.0124
111		---	---	ND	---	0.00197
112		---	---	ND	---	0.00170
113	90/101/113	---	---	ND	---	0.0115
114		---	---	ND	---	0.00220
115	110/115	---	---	ND	---	0.0124
116	85/116/117	---	---	ND	---	0.00499
117	85/116/117	---	---	ND	---	0.00499
118		---	---	ND	---	0.00860
119	86/87/97/108/119/125	---	---	ND	---	0.0146
120		---	---	ND	---	0.00164
121		---	---	ND A	---	0.00139
122		---	---	ND A	---	0.00221
123		---	---	ND	---	0.00212
124	107/124	---	---	ND	---	0.00252
125	86/87/97/108/119/125	---	---	ND	---	0.0146
126		---	---	ND	---	0.00214
127		---	---	ND A	---	0.00195
128	128/166	---	---	ND	---	0.00419
129	129/138/163	---	---	ND	---	0.0105
130		---	---	ND A	---	0.00263
131		---	---	ND A	---	0.00279
132		---	---	ND	---	0.00396

Conc = Concentration
EML = Method Reporting/Quantitation Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise (EDL)
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R = Recovery outside of Method 1668A control limits
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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-FB-202305
 Lab Sample ID 40262368004
 Filename P230529B_05

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
133		---	---	ND	---	0.00256
134	134/143	---	---	ND	---	0.00384
135	135/151	---	---	ND	---	0.00499
136		---	---	ND	---	0.00275
137		---	---	ND	---	0.00247
138	129/138/163	---	---	ND	---	0.0105
139	139/140	---	---	ND	---	0.00422
140	139/140	---	---	ND	---	0.00422
141		---	---	ND A	---	0.00238
142		---	---	ND A	---	0.00244
143	134/143	---	---	ND	---	0.00384
144		---	---	ND	---	0.00201
145		---	---	ND	---	0.00193
146		---	---	ND	---	0.00245
147	147/149	---	---	ND	---	0.00864
148		---	---	ND	---	0.00226
149	147/149	---	---	ND	---	0.00864
150		---	---	ND	---	0.00125
151	135/151	---	---	ND	---	0.00499
152		---	---	ND	---	0.00205
153	153/168	---	---	ND	---	0.00742
154		---	---	ND	---	0.00169
155		---	---	ND	---	0.00148
156	156/157	---	---	ND	---	0.00428
157	156/157	---	---	ND	---	0.00428
158		---	---	ND	---	0.00249
159		---	---	ND	---	0.00270
160		---	---	ND	---	0.00249
161		---	---	ND	---	0.00179
162		---	---	ND	---	0.00224
163	129/138/163	---	---	ND	---	0.0105
164		---	---	ND	---	0.00233
165		---	---	ND	---	0.00199
166	128/166	---	---	ND	---	0.00419
167		---	---	ND	---	0.00206
168	153/168	---	---	ND	---	0.00742
169		---	---	ND A	---	0.00155
170		---	---	ND	---	0.00478
171	171/173	---	---	ND	---	0.00585
172		---	---	ND	---	0.0136
173	171/173	---	---	ND	---	0.00585
174		---	---	ND	---	0.00308
175		---	---	ND A	---	0.00177
176		---	---	ND	---	0.00216

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

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Method 1668A Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-FB-202305
Lab Sample ID 40262368004
Filename P230529B_05

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
177		---	---	ND	---	0.00323
178		---	---	ND	---	0.00218
179		---	---	ND	---	0.00233
180	180/193	---	---	ND	---	0.00552
181		---	---	ND A	---	0.00265
182		---	---	ND	---	0.00249
183	183/185	---	---	ND	---	0.00547
184		---	---	ND	---	0.00201
185	183/185	---	---	ND	---	0.00547
186		---	---	ND	---	0.00151
187		---	---	ND	---	0.00315
188		---	---	ND	---	0.00239
189		---	---	ND	---	0.00208
190		---	---	ND	---	0.00245
191		---	---	ND	---	0.00210
192		---	---	ND	---	0.00239
193	180/193	---	---	ND	---	0.00552
194		---	---	ND A	---	0.00211
195		---	---	ND A	---	0.00232
196		---	---	ND	---	0.00168
197	197/200	---	---	ND	---	0.00455
198	198/199	---	---	ND	---	0.00273
199	198/199	---	---	ND	---	0.00273
200	197/200	---	---	ND	---	0.00455
201		---	---	ND A	---	0.00142
202		---	---	ND	---	0.00224
203		---	---	ND	---	0.00175
204		---	---	ND	---	0.00162
205		---	---	ND	---	0.00191
206		---	---	ND	---	0.00371
207		---	---	ND	---	0.00222
208		---	---	ND	---	0.00216
209		---	---	ND	---	0.0166

Conc = Concentration
EML = Method Reporting/Quantitation Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise (EDL)
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-FB-202305
Lab Sample ID 40262368004
Filename P230529B_05

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	ND
Total Pentachloro Biphenyls	ND
Total Hexachloro Biphenyls	ND
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	ND

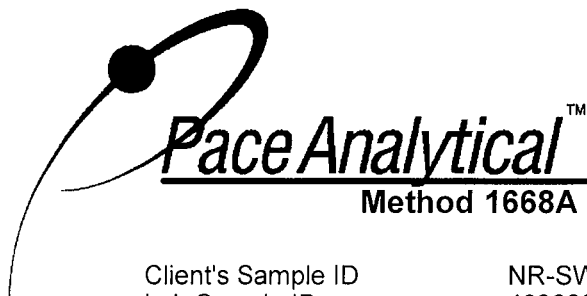
ND = Not Detected

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Method 1668A Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-DS1-202305	Matrix	Water
Lab Sample ID	40262368005	Dilution	NA
Filename	P230529B_06	Collected	05/16/2023 12:45
Injected By	BAL	Received	05/20/2023 18:45
Total Amount Extracted	1050 mL	Extracted	05/23/2023 12:15
% Moisture	NA	Analyzed	05/29/2023 21:20
Dry Weight Extracted	NA		
ICAL ID	P230529B02		
CCal Filename(s)	P230529B_01		
Method Blank ID	BLANK-106282		

PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.205	2.84	2.0	1.43	72
13C-4-MoCB	3	13.009	3.01	2.0	1.73	87
13C-2,2'-DiCB	4	13.325	1.62	2.0	2.39	120
13C-4,4'-DiCB	15	20.426	1.56	2.0	1.80	90
13C-2,2',6-TrCB	19	17.154	1.04	2.0	2.24	112
13C-3,4,4'-TrCB	37	28.223	1.02	2.0	1.30	65
13C-2,2',6,6'-TeCB	54	20.766	0.76	2.0	1.53	77
13C-3,4,4',5'-TeCB	81	35.361	0.80	2.0	1.34	67
13C-3,3',4,4'-TeCB	77	35.949	0.78	2.0	1.30	65
13C-2,2',4,6,6'-PeCB	104	26.908	1.60	2.0	1.81	91
13C-2,3,3',4,4'-PeCB	105	39.572	1.60	2.0	1.05	52
13C-2,3,4,4',5'-PeCB	114	38.918	1.62	2.0	1.05	53
13C-2,3',4,4',5'-PeCB	118	38.365	1.61	2.0	1.09	54
13C-2,3',4,4',5'-PeCB	123	38.029	1.49	2.0	1.07	53
13C-3,3',4,4',5'-PeCB	126	42.725	1.52	2.0	0.883	44
13C-2,2',4,4',6,6'-HxCB	155	32.994	1.30	2.0	2.37	118
13C-HxCB (156/157)	156/157	45.815	1.26	4.0	2.13	53
13C-2,3',4,4',5,5'-HxCB	167	44.641	1.24	2.0	1.11	56
13C-3,3',4,4',5,5'-HxCB	169	49.102	1.27	2.0	1.22	61
13C-2,2',3,4',5,6,6'-HpCB	188	38.918	1.01	2.0	2.16	108
13C-2,3,3',4,4',5,5'-HpCB	189	51.675	1.05	2.0	1.39	70
13C-2,2',3,3',5,5',6,6'-OxCB	202	44.407	0.91	2.0	1.61	81
13C-2,3,3',4,4',5,5',6-OxCB	205	54.283	0.91	2.0	1.73	86
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.050	0.76	2.0	1.98	99
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.201	0.77	2.0	2.07	104
13C-DeCB	209	57.688	0.69	2.0	2.11	106
Cleanup Standards						
13C-2,4,4'-TrCB	28	23.860	1.03	2.0	1.21	60
13C-2,3,3',5,5'-PeCB	111	35.996	1.59	2.0	1.51	76
13C-2,2',3,3',5,5',6-HpCB	178	42.037	1.04	2.0	1.75	87
Recovery Standards						
13C-2,5-DiCB	9	15.795	1.54	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.856	0.77	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.195	1.55	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.568	1.24	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OxCB	194	53.809	0.89	2.0	NA	NA

R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

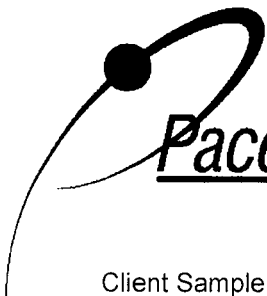
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Method 1668A Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-DS1-202305
Lab Sample ID 40262368005
Filename P230529B_06

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		10.227	2.58	--- IJ	0.0285	0.00534
2		---	---	ND	---	0.00486
3		---	---	ND	---	0.00421
4		13.337	1.34	0.154 JA	---	0.0140
5		---	---	ND A	---	0.00481
6		16.303	1.43	0.0811 J	---	0.00897
7		16.005	1.46	0.0173 J	---	0.00889
8		16.823	1.55	0.0264 J	---	0.0117
9		15.806	1.38	0.0161 JA	---	0.00419
10		---	---	ND A	---	0.00985
11		---	---	ND	---	0.139
12	12/13	---	---	ND	---	0.00503
13	12/13	---	---	ND	---	0.00503
14		---	---	ND A	---	0.00433
15		20.448	1.44	0.0124 J	---	0.00578
16		20.404	1.03	0.00908 J	---	0.00589
17		19.873	1.04	0.130 J	---	0.00493
18	18/30	19.387	0.93	0.0817 J	---	0.0109
19		17.176	1.08	0.100 J	---	0.00798
20	20/28	23.875	1.03	0.146 J	---	0.0174
21	21/33	24.139	1.01	0.0428 J	---	0.0126
22		24.556	1.25	--- IJ	0.00952	0.00725
23		---	---	ND A	---	0.00174
24		---	---	ND	---	0.00183
25		23.195	1.11	0.161 J	---	0.00274
26	26/29	22.932	1.01	0.284 J	---	0.00438
27		20.116	1.05	0.0218 J	---	0.00193
28	20/28	23.875	1.03	(0.146) J	---	0.0174
29	26/29	22.932	1.01	(0.284) J	---	0.00438
30	18/30	19.387	0.93	(0.0817) J	---	0.0109
31		23.535	0.98	0.0668 J	---	0.0169
32		20.998	1.10	0.0699 J	---	0.00700
33	21/33	24.139	1.01	(0.0428) J	---	0.0126
34		22.421	1.21	--- IJA	0.0134	0.00174
35		---	---	ND	---	0.00306
36		---	---	ND	---	0.00193
37		28.254	0.95	0.0115 J	---	0.00404
38		---	---	ND A	---	0.00165
39		---	---	ND A	---	0.00160
40	40/41/71	28.084	0.79	0.260 J	---	0.00777
41	40/41/71	28.084	0.79	(0.260) J	---	0.00777
42		27.542	0.74	0.158 J	---	0.00421
43	43/73	26.041	0.80	0.0337 J	---	0.00375
44	44/47/65	27.031	0.78	0.769 J	---	0.0179

Conc = Concentration
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Report No.....10654073



Method 1668A Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-DS1-202305
Lab Sample ID 40262368005
Filename P230529B_06

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
45	45/51	24.077	0.73	0.131 J	---	0.00551
46		24.309	0.79	0.0634 J	---	0.00218
47	44/47/65	27.031	0.78	(0.769) J	---	0.0179
48		26.753	0.59	--- IJ	0.00660	0.00279
49	49/69	26.428	0.77	1.10	---	0.00647
50	50/53	23.226	0.77	0.249 J	---	0.00363
51	45/51	24.077	0.73	(0.131) J	---	0.00551
52		25.887	0.76	1.41 J	---	0.0159
53	50/53	23.226	0.77	(0.249) J	---	0.00363
54		20.797	0.79	0.0130 J	---	0.00154
55		---	---	ND	---	0.00207
56		32.066	0.85	0.0386 J	---	0.00970
57		29.993	0.76	0.0399 JA	---	0.00151
58		30.210	0.81	0.00777 J	---	0.00182
59	59/62/75	27.387	0.77	0.0418 J	---	0.00398
60		32.314	0.85	0.00456 J	---	0.00329
61	61/70/74/76	31.030	0.80	0.270 J	---	0.0308
62	59/62/75	27.387	0.77	(0.0418) J	---	0.00398
63		30.689	0.78	0.0264 J	---	0.00167
64		28.316	0.77	0.0957 J	---	0.00537
65	44/47/65	27.031	0.78	(0.769) J	---	0.0179
66		31.385	0.78	0.229 J	---	0.0210
67		30.411	0.69	0.0226 J	---	0.00216
68		29.514	0.82	0.0319 J	---	0.00241
69	49/69	26.428	0.77	(1.10)	---	0.00647
70	61/70/74/76	31.030	0.80	(0.270) J	---	0.0308
71	40/41/71	28.084	0.79	(0.260) J	---	0.00777
72		29.220	0.77	0.0415 J	---	0.00169
73	43/73	26.041	0.80	(0.0337) J	---	0.00375
74	61/70/74/76	31.030	0.80	(0.270) J	---	0.0308
75	59/62/75	27.387	0.77	(0.0418) J	---	0.00398
76	61/70/74/76	31.030	0.80	(0.270) J	---	0.0308
77		35.996	0.83	0.0132 J	---	0.00254
78		---	---	ND	---	0.00222
79		34.340	0.67	0.00759 J	---	0.00224
80		---	---	ND	---	0.00205
81		---	---	ND	---	0.00171
82		35.593	1.64	0.0472 J	---	0.00247
83		33.691	1.57	0.0910 J	---	0.00230
84		31.246	1.49	0.252 J	---	0.0127
85	85/116/117	35.068	1.40	0.136 J	---	0.00499
86	86/87/97/108/119/125	34.356	1.48	0.504 J	---	0.0146
87	86/87/97/108/119/125	34.356	1.48	(0.504) J	---	0.0146
88	88/91	31.045	1.53	0.255 J	---	0.00474

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REPORT OF LABORATORY ANALYSIS

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Method 1668A Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-DS1-202305
Lab Sample ID 40262368005
Filename P230529B_06

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
89		31.757	1.61	0.00622 J	---	0.00300
90	90/101/113	33.227	1.54	0.912 J	---	0.0115
91	88/91	31.045	1.53	(0.255) J	---	0.00474
92		32.608	1.53	0.431 J	---	0.00377
93	93/98/100/102	30.519	1.65	0.0959 J	---	0.00543
94		29.637	1.57	0.0306 J	---	0.00182
95		30.101	1.48	0.844 J	---	0.00836
96		27.310	1.41	0.0125 J	---	0.00302
97	86/87/97/108/119/125	34.356	1.48	(0.504) J	---	0.0146
98	93/98/100/102	30.519	1.65	(0.0959) J	---	0.00543
99		33.845	1.53	0.473 J	---	0.00568
100	93/98/100/102	30.519	1.65	(0.0959) J	---	0.00543
101	90/101/113	33.227	1.54	(0.912) J	---	0.0115
102	93/98/100/102	30.519	1.65	(0.0959) J	---	0.00543
103		29.421	1.74	0.0351 J	---	0.00188
104		---	---	ND	---	0.00147
105		39.589	1.46	0.136 J	---	0.00545
106		---	---	ND A	---	0.00271
107	107/124	37.677	1.48	0.0193 JA	---	0.00297
108	86/87/97/108/119/125	34.356	1.48	(0.504) J	---	0.0146
109		37.929	1.50	0.0728 JA	---	0.00279
110	110/115	35.269	1.58	1.37	---	0.0124
111		36.011	1.69	0.00362 J	---	0.00197
112		---	---	ND	---	0.00170
113	90/101/113	33.227	1.54	(0.912) J	---	0.0115
114		38.918	1.93	--- IJA	0.00366	0.00271
115	110/115	35.269	1.58	(1.37)	---	0.0124
116	85/116/117	35.068	1.40	(0.136) J	---	0.00499
117	85/116/117	35.068	1.40	(0.136) J	---	0.00499
118		38.398	1.52	0.534 J	---	0.00861
119	86/87/97/108/119/125	34.356	1.48	(0.504) J	---	0.0146
120		36.522	1.55	0.00901 J	---	0.00164
121		---	---	ND	---	0.00125
122		38.750	1.34	0.00642 JA	---	0.00316
123		38.046	1.74	0.00801 JA	---	0.00299
124	107/124	37.677	1.48	(0.0193) JA	---	0.00297
125	86/87/97/108/119/125	34.356	1.48	(0.504) J	---	0.0146
126		---	---	ND A	---	0.00296
127		---	---	ND A	---	0.00279
128	128/166	42.875	1.24	0.122 J	---	0.00419
129	129/138/163	41.601	1.18	0.638 J	---	0.0105
130		40.930	1.16	0.0605 JA	---	0.00272
131		38.046	1.26	0.0101 JA	---	0.00288
132		38.499	1.29	0.282 J	---	0.00396

Conc = Concentration

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Method 1668A Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-DS1-202305
Lab Sample ID 40262368005
Filename P230529B_06

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
133		39.019	1.43	0.0253 J	---	0.00256
134	134/143	37.426	1.20	0.0612 J	---	0.00384
135	135/151	36.228	1.27	0.311 J	---	0.00499
136		33.722	1.25	0.125 J	---	0.00275
137		41.165	1.18	0.0286 JA	---	0.00254
138	129/138/163	41.601	1.18	(0.638) J	---	0.0105
139	139/140	37.845	1.30	0.0166 J	---	0.00423
140	139/140	37.845	1.30	(0.0166) J	---	0.00423
141		40.511	1.23	0.0744 JA	---	0.00246
142		---	---	ND A	---	0.00252
143	134/143	37.426	1.20	(0.0612) J	---	0.00384
144		36.831	1.20	0.0233 J	---	0.00201
145		---	---	ND	---	0.00193
146		39.689	1.26	0.120 J	---	0.00245
147	147/149	37.208	1.19	0.657 J	---	0.00865
148		35.640	1.41	0.00389 J	---	0.00226
149	147/149	37.208	1.19	(0.657) J	---	0.00865
150		33.381	1.25	0.00407 J	---	0.00125
151	135/151	36.228	1.27	(0.311) J	---	0.00499
152		33.211	1.26	0.00281 J	---	0.00205
153	153/168	40.327	1.24	0.469 J	---	0.00742
154		36.522	1.22	0.0226 J	---	0.00169
155		---	---	ND	---	0.00148
156	156/157	45.832	1.20	0.0824 J	---	0.00428
157	156/157	45.832	1.20	(0.0824) J	---	0.00428
158		42.020	1.18	0.0533 J	---	0.00249
159		---	---	ND	---	0.00270
160		---	---	ND	---	0.00249
161		---	---	ND A	---	0.00180
162		---	---	ND	---	0.00224
163	129/138/163	41.601	1.18	(0.638) J	---	0.0105
164		41.266	1.22	0.0464 J	---	0.00233
165		39.438	0.89	--- IJ	0.00218	0.00199
166	128/166	42.875	1.24	(0.122) J	---	0.00419
167		44.675	1.41	0.0291 J	---	0.00207
168	153/168	40.327	1.24	(0.469) J	---	0.00742
169		---	---	ND	---	0.00155
170		48.549	1.02	0.0782 J	---	0.00478
171	171/173	44.960	0.94	0.0282 J	---	0.00585
172		---	---	ND	---	0.0136
173	171/173	44.960	0.94	(0.0282) J	---	0.00585
174		43.853	1.03	0.0634 J	---	0.00308
175		42.708	1.33	--- IJ	0.00236	0.00146
176		40.193	1.05	0.0116 J	---	0.00216

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Method 1668A Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-DS1-202305
Lab Sample ID 40262368005
Filename P230529B_06

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
177		44.306	1.08	0.0540 J	---	0.00323
178		42.054	1.01	0.0214 J	---	0.00218
179		39.287	0.98	0.0425 J	---	0.00233
180	180/193	47.257	1.01	0.124 J	---	0.00553
181		---	---	ND	---	0.00264
182		---	---	ND	---	0.00249
183	183/185	43.635	1.18	0.0460 J	---	0.00547
184		---	---	ND	---	0.00201
185	183/185	43.635	1.18	(0.0460) J	---	0.00547
186		---	---	ND	---	0.00151
187		42.993	1.14	0.0922 J	---	0.00316
188		---	---	ND	---	0.00239
189		51.718	1.13	0.00304 JA	---	0.00267
190		49.102	1.17	0.0152 J	---	0.00245
191		47.610	1.76	--- IJ	0.00262	0.00210
192		---	---	ND	---	0.00239
193	180/193	47.257	1.01	(0.124) J	---	0.00553
194		53.852	0.98	0.0225 JA	---	0.00246
195		51.459	0.96	0.00956 JA	---	0.00270
196		49.940	0.86	0.0119 J	---	0.00168
197	197/200	---	---	ND	---	0.00455
198	198/199	49.270	0.87	0.0312 J	---	0.00274
199	198/199	49.270	0.87	(0.0312) J	---	0.00274
200	197/200	---	---	ND	---	0.00455
201		45.379	0.67	--- IJ	0.00307	0.00139
202		44.424	0.91	0.00582 J	---	0.00224
203		50.125	0.68	--- IJ	0.0117	0.00175
204		---	---	ND	---	0.00163
205		---	---	ND A	---	0.00202
206		56.072	0.89	0.00682 J	---	0.00371
207		---	---	ND	---	0.00222
208		---	---	ND	---	0.00216
209		---	---	ND	---	0.0166

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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-DS1-202305
Lab Sample ID 40262368005
Filename P230529B_06

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	0.307
Total Trichloro Biphenyls	1.12
Total Tetrachloro Biphenyls	5.06
Total Pentachloro Biphenyls	6.29
Total Hexachloro Biphenyls	3.27
Total Heptachloro Biphenyls	0.580
Total Octachloro Biphenyls	0.0809
Total Nonachloro Biphenyls	0.00682
Decachloro Biphenyls	ND
Total PCBs	16.7

ND = Not Detected

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Method 1668A Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID NR-SW-OU4-202305
Lab Sample ID 40262368006
Filename P230529B_07
Injected By BAL
Total Amount Extracted 1040 mL
% Moisture NA
Dry Weight Extracted NA
ICAL ID P230529B02
CCal Filename(s) P230529B_01
Method Blank ID BLANK-106282
Matrix Water
Dilution NA
Collected 05/16/2023 13:15
Received 05/20/2023 18:45
Extracted 05/23/2023 12:15
Analyzed 05/29/2023 22:22

PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.137	2.95	2.0	1.53	76
13C-4-MoCB	3	12.953	2.99	2.0	1.65	82
13C-2,2'-DiCB	4	13.258	1.55	2.0	2.30	115
13C-4,4'-DiCB	15	20.393	1.56	2.0	1.72	86
13C-2,2',6-TrCB	19	17.121	1.05	2.0	2.35	117
13C-3,4,4'-TrCB	37	28.208	1.03	2.0	1.20	60
13C-2,2',6,6'-TeCB	54	20.736	0.77	2.0	1.52	76
13C-3,4,4',5-TeCB	81	35.362	0.76	2.0	1.29	64
13C-3,3',4,4'-TeCB	77	35.935	0.78	2.0	1.28	64
13C-2,2',4,6,6'-PeCB	104	26.909	1.54	2.0	1.75	87
13C-2,3,3',4,4'-PeCB	105	39.556	1.61	2.0	1.04	52
13C-2,3,4,4',5-PeCB	114	38.919	1.58	2.0	1.05	52
13C-2,3',4,4',5-PeCB	118	38.349	1.54	2.0	1.03	51
13C-2,3',4,4',5'-PeCB	123	38.030	1.53	2.0	1.08	54
13C-3,3',4,4',5-PeCB	126	42.726	1.61	2.0	0.852	43
13C-2,2',4,4',6,6'-HxCB	155	32.980	1.25	2.0	2.30	115
13C-HxCB (156/157)	156/157	45.816	1.27	4.0	2.05	51
13C-2,3',4,4',5,5'-HxCB	167	44.643	1.26	2.0	1.10	55
13C-3,3',4,4',5,5'-HxCB	169	49.103	1.25	2.0	1.18	59
13C-2,2',3,4',5,6,6'-HpCB	188	38.919	1.04	2.0	2.19	110
13C-2,3,3',4,4',5,5'-HpCB	189	51.676	1.05	2.0	1.38	69
13C-2,2',3,3',5,5',6,6'-OxCB	202	44.408	0.91	2.0	1.59	79
13C-2,3,3',4,4',5,5',6-OxCB	205	54.284	0.89	2.0	1.68	84
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.051	0.77	2.0	1.94	97
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.202	0.76	2.0	2.06	103
13C-DeCB	209	57.689	0.72	2.0	2.04	102
Cleanup Standards						
13C-2,4,4'-TrCB	28	23.845	1.03	2.0	1.14	57
13C-2,3,3',5,5'-PeCB	111	35.981	1.56	2.0	1.48	74
13C-2,2',3,3',5,5',6-HpCB	178	42.021	1.06	2.0	1.73	86
Recovery Standards						
13C-2,5-DiCB	9	15.751	1.51	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.841	0.77	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.181	1.54	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.568	1.27	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OxCB	194	53.810	0.91	2.0	NA	NA

R = Recovery outside of Method 1668A control limits
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Method 1668A Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-OU4-202305
Lab Sample ID 40262368006
Filename P230529B_07

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.00535
2		---	---	ND	---	0.00487
3		---	---	ND	---	0.00422
4		---	---	ND A	---	0.0100
5		---	---	ND A	---	0.00473
6		---	---	ND	---	0.00900
7		---	---	ND	---	0.00892
8		---	---	ND	---	0.0118
9		---	---	ND A	---	0.00412
10		---	---	ND A	---	0.00713
11		---	---	ND	---	0.139
12	12/13	---	---	ND	---	0.00505
13	12/13	---	---	ND	---	0.00505
14		---	---	ND A	---	0.00426
15		---	---	ND	---	0.00579
16		---	---	ND	---	0.00591
17		19.840	0.90	0.0183 J	---	0.00495
18	18/30	19.343	1.09	0.0158 J	---	0.0109
19		---	---	ND	---	0.00800
20	20/28	23.861	1.04	0.0603 J	---	0.0175
21	21/33	24.124	1.13	0.0141 J	---	0.0126
22		---	---	ND	---	0.00727
23		---	---	ND A	---	0.00180
24		---	---	ND	---	0.00183
25		23.180	0.96	0.0177 J	---	0.00274
26	26/29	22.902	1.19	0.0274 J	---	0.00439
27		---	---	ND	---	0.00194
28	20/28	23.861	1.04	(0.0603) J	---	0.0175
29	26/29	22.902	1.19	(0.0274) J	---	0.00439
30	18/30	19.343	1.09	(0.0158) J	---	0.0109
31		23.505	1.14	0.0206 J	---	0.0169
32		20.968	0.99	0.0274 J	---	0.00702
33	21/33	24.124	1.13	(0.0141) J	---	0.0126
34		22.391	1.29	--- IJA	0.00223	0.00179
35		---	---	ND	---	0.00307
36		---	---	ND	---	0.00194
37		---	---	ND	---	0.00405
38		---	---	ND A	---	0.00170
39		---	---	ND A	---	0.00164
40	40/41/71	28.053	0.82	0.0728 J	---	0.00779
41	40/41/71	28.053	0.82	(0.0728) J	---	0.00779
42		27.527	0.82	0.0514 J	---	0.00422
43	43/73	26.042	0.87	0.00793 J	---	0.00376
44	44/47/65	27.017	0.78	0.240 J	---	0.0179

Conc = Concentration
EML = Method Reporting/Quantitation Limit (1668A)
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REPORT OF LABORATORY ANALYSIS

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Report No.....10654073

**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-OU4-202305
 Lab Sample ID 40262368006
 Filename P230529B_07

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
45	45/51	24.046	0.82	0.0496 J	---	0.00553
46		24.294	0.72	0.0243 J	---	0.00219
47	44/47/65	27.017	0.78	(0.240) J	---	0.0179
48		---	---	ND	---	0.00280
49	49/69	26.413	0.77	0.264 J	---	0.00649
50	50/53	23.195	0.77	0.0807 J	---	0.00365
51	45/51	24.046	0.82	(0.0496) J	---	0.00553
52		25.872	0.76	0.277 J	---	0.0160
53	50/53	23.195	0.77	(0.0807) J	---	0.00365
54		20.767	0.73	0.00445 J	---	0.00154
55		---	---	ND A	---	0.00208
56		32.067	0.87	0.0148 J	---	0.00973
57		29.963	0.69	0.00426 JA	---	0.00186
58		30.210	0.66	0.00280 JA	---	0.00206
59	59/62/75	27.373	0.70	0.0104 J	---	0.00399
60		---	---	ND	---	0.00330
61	61/70/74/76	31.015	0.82	0.0969 J	---	0.0309
62	59/62/75	27.373	0.70	(0.0104) J	---	0.00399
63		30.674	0.85	0.00879 JA	---	0.00195
64		28.285	0.82	0.0249 J	---	0.00539
65	44/47/65	27.017	0.78	(0.240) J	---	0.0179
66		31.386	0.79	0.0827 J	---	0.0211
67		30.412	0.99	--- IJ	0.00263	0.00217
68		29.483	0.57	--- IJ	0.00551	0.00242
69	49/69	26.413	0.77	(0.264) J	---	0.00649
70	61/70/74/76	31.015	0.82	(0.0969) J	---	0.0309
71	40/41/71	28.053	0.82	(0.0728) J	---	0.00779
72		29.189	0.76	0.00962 JA	---	0.00195
73	43/73	26.042	0.87	(0.00793) J	---	0.00376
74	61/70/74/76	31.015	0.82	(0.0969) J	---	0.0309
75	59/62/75	27.373	0.70	(0.0104) J	---	0.00399
76	61/70/74/76	31.015	0.82	(0.0969) J	---	0.0309
77		35.950	0.99	--- IJ	0.00396	0.00255
78		---	---	ND	---	0.00223
79		---	---	ND	---	0.00225
80		---	---	ND	---	0.00205
81		---	---	ND A	---	0.00193
82		35.594	1.50	0.0214 J	---	0.00248
83		33.691	1.64	0.0258 J	---	0.00230
84		31.247	1.69	0.0812 J	---	0.0128
85	85/116/117	35.114	1.57	0.0547 J	---	0.00501
86	86/87/97/108/119/125	34.434	1.62	0.192 J	---	0.0146
87	86/87/97/108/119/125	34.434	1.62	(0.192) J	---	0.0146
88	88/91	31.030	1.58	0.0677 J	---	0.00476

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
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Report No.....10654073



**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-OU4-202305
Lab Sample ID 40262368006
Filename P230529B_07

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
89		---	---	ND	---	0.00301
90	90/101/113	33.212	1.49	0.328 J	---	0.0115
91	88/91	31.030	1.58	(0.0677) J	---	0.00476
92		32.608	1.42	0.0989 J	---	0.00378
93	93/98/100/102	30.365	1.35	0.0213 J	---	0.00545
94		29.622	1.94	---	0.00509	0.00182
95		30.087	1.48	0.255 J	---	0.00839
96		27.295	1.15	---	0.00362	0.00303
97	86/87/97/108/119/125	34.434	1.62	(0.192) J	---	0.0146
98	93/98/100/102	30.365	1.35	(0.0213) J	---	0.00545
99		33.831	1.65	0.164 J	---	0.00570
100	93/98/100/102	30.365	1.35	(0.0213) J	---	0.00545
101	90/101/113	33.212	1.49	(0.328) J	---	0.0115
102	93/98/100/102	30.365	1.35	(0.0213) J	---	0.00545
103		29.406	1.57	0.00837 J	---	0.00189
104		---	---	ND	---	0.00147
105		39.590	1.51	0.0623 J	---	0.00547
106		---	---	ND A	---	0.00287
107	107/124	37.678	1.92	---	0.00770	0.00315
108	86/87/97/108/119/125	34.434	1.62	(0.192) J	---	0.0146
109		37.930	1.62	0.0250 JA	---	0.00296
110	110/115	35.269	1.53	0.422 J	---	0.0125
111		---	---	ND	---	0.00198
112		---	---	ND	---	0.00171
113	90/101/113	33.212	1.49	(0.328) J	---	0.0115
114		---	---	ND A	---	0.00289
115	110/115	35.269	1.53	(0.422) J	---	0.0125
116	85/116/117	35.114	1.57	(0.0547) J	---	0.00501
117	85/116/117	35.114	1.57	(0.0547) J	---	0.00501
118		38.382	1.59	0.203 J	---	0.00863
119	86/87/97/108/119/125	34.434	1.62	(0.192) J	---	0.0146
120		36.492	1.35	0.00265 J	---	0.00164
121		---	---	ND	---	0.00125
122		---	---	ND A	---	0.00335
123		38.014	1.40	0.00303 JA	---	0.00295
124	107/124	37.678	1.92	---	(0.00770)	0.00315
125	86/87/97/108/119/125	34.434	1.62	(0.192) J	---	0.0146
126		---	---	ND A	---	0.00328
127		---	---	ND A	---	0.00296
128	128/166	42.877	1.21	0.0482 J	---	0.00420
129	129/138/163	41.602	1.25	0.230 J	---	0.0106
130		40.948	1.23	0.0190 JA	---	0.00253
131		38.030	1.16	0.00415 J	---	0.00272
132		38.483	1.19	0.0851 J	---	0.00397

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REPORT OF LABORATORY ANALYSIS

Report No.....10654073

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Method 1668A Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-OU4-202305
Lab Sample ID 40262368006
Filename P230529B_07

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
133		39.003	1.22	0.00437 J	---	0.00257
134	134/143	37.410	1.31	0.0197 J	---	0.00386
135	135/151	36.229	1.20	0.0868 J	---	0.00501
136		33.707	1.29	0.0356 J	---	0.00276
137		41.149	1.51	--- IJ	0.0117	0.00248
138	129/138/163	41.602	1.25	(0.230) J	---	0.0106
139	139/140	37.829	1.23	0.00563 J	---	0.00424
140	139/140	37.829	1.23	(0.00563) J	---	0.00424
141		40.529	1.32	0.0319 J	---	0.00238
142		---	---	ND A	---	0.00235
143	134/143	37.410	1.31	(0.0197) J	---	0.00386
144		36.801	1.23	0.0103 J	---	0.00201
145		---	---	ND	---	0.00194
146		39.674	1.11	0.0331 J	---	0.00246
147	147/149	37.192	1.31	0.183 J	---	0.00867
148		---	---	ND	---	0.00226
149	147/149	37.192	1.31	(0.183) J	---	0.00867
150		---	---	ND	---	0.00126
151	135/151	36.229	1.20	(0.0868) J	---	0.00501
152		---	---	ND	---	0.00205
153	153/168	40.328	1.23	0.175 J	---	0.00745
154		36.553	1.04	--- IJ	0.00392	0.00169
155		---	---	ND	---	0.00148
156	156/157	45.850	1.34	0.0321 J	---	0.00430
157	156/157	45.850	1.34	(0.0321) J	---	0.00430
158		42.005	1.20	0.0223 J	---	0.00249
159		---	---	ND	---	0.00271
160		---	---	ND	---	0.00249
161		---	---	ND	---	0.00180
162		---	---	ND	---	0.00225
163	129/138/163	41.602	1.25	(0.230) J	---	0.0106
164		41.283	1.06	0.0163 J	---	0.00234
165		---	---	ND	---	0.00200
166	128/166	42.877	1.21	(0.0482) J	---	0.00420
167		44.659	1.68	--- IJ	0.00862	0.00207
168	153/168	40.328	1.23	(0.175) J	---	0.00745
169		---	---	ND	---	0.00155
170		48.550	1.34	--- IJ	0.0189	0.00480
171	171/173	44.961	1.43	--- IJ	0.00609	0.00587
172		---	---	ND	---	0.0136
173	171/173	44.961	1.43	--- IJ	(0.00609)	0.00587
174		43.854	1.17	0.0197 J	---	0.00309
175		---	---	ND	---	0.00146
176		---	---	ND	---	0.00217

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Report No.....10654073



Method 1668A Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-OU4-202305
Lab Sample ID 40262368006
Filename P230529B_07

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
177		44.290	1.39	--- IJ	0.00976	0.00324
178		42.038	1.13	0.00474 J	---	0.00219
179		39.271	1.18	0.00902 J	---	0.00234
180	180/193	47.258	1.00	0.0344 J	---	0.00555
181		---	---	ND	---	0.00265
182		---	---	ND	---	0.00249
183	183/185	43.637	1.11	0.0116 J	---	0.00549
184		---	---	ND	---	0.00201
185	183/185	43.637	1.11	(0.0116) J	---	0.00549
186		---	---	ND	---	0.00152
187		42.977	1.12	0.0205 J	---	0.00317
188		---	---	ND	---	0.00240
189		---	---	ND A	---	0.00268
190		49.086	1.35	--- IJ	0.00356	0.00246
191		---	---	ND	---	0.00211
192		---	---	ND	---	0.00240
193	180/193	47.258	1.00	(0.0344) J	---	0.00555
194		53.853	1.22	--- IJ	0.00359	0.00181
195		51.482	0.89	0.00271 JA	---	0.00195
196		49.975	0.95	0.00276 J	---	0.00169
197	197/200	---	---	ND	---	0.00457
198	198/199	49.237	0.96	0.00638 J	---	0.00274
199	198/199	49.237	0.96	(0.00638) J	---	0.00274
200	197/200	---	---	ND	---	0.00457
201		---	---	ND	---	0.00140
202		---	---	ND	---	0.00225
203		50.109	0.57	--- IJ	0.00326	0.00176
204		---	---	ND	---	0.00163
205		---	---	ND	---	0.00192
206		---	---	ND	---	0.00372
207		---	---	ND	---	0.00223
208		---	---	ND	---	0.00217
209		---	---	ND	---	0.0167

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Report No.....10654073



**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-OU4-202305
Lab Sample ID 40262368006
Filename P230529B_07

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	0.202
Total Tetrachloro Biphenyls	1.33
Total Pentachloro Biphenyls	2.04
Total Hexachloro Biphenyls	1.04
Total Heptachloro Biphenyls	0.0999
Total Octachloro Biphenyls	0.0118
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	4.72

ND = Not Detected

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Method 1668A Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-BKG1-202305	Matrix	Water
Lab Sample ID	40262368007	Dilution	NA
Filename	P230529B_08	Collected	05/16/2023 14:10
Injected By	BAL	Received	05/20/2023 18:45
Total Amount Extracted	1030 mL	Extracted	05/23/2023 12:15
% Moisture	NA	Analyzed	05/29/2023 23:25
Dry Weight Extracted	NA		
ICAL ID	P230529B02		
CCal Filename(s)	P230529B_01		
Method Blank ID	BLANK-106282		

PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.182	2.99	2.0	1.67	84
13C-4-MoCB	3	12.998	2.96	2.0	1.80	90
13C-2,2'-DiCB	4	13.303	1.48	2.0	2.48	124
13C-4,4'-DiCB	15	20.404	1.57	2.0	1.85	93
13C-2,2',6-TrCB	19	17.143	1.03	2.0	2.54	127
13C-3,4,4'-TrCB	37	28.223	1.07	2.0	1.29	65
13C-2,2',6,6'-TeCB	54	20.766	0.78	2.0	1.65	82
13C-3,4,4',5-TeCB	81	35.377	0.78	2.0	1.40	70
13C-3,3',4,4'-TeCB	77	35.950	0.75	2.0	1.34	67
13C-2,2',4,6,6'-PeCB	104	26.908	1.52	2.0	1.77	88
13C-2,3,3',4,4'-PeCB	105	39.572	1.55	2.0	1.15	57
13C-2,3,4,4',5-PeCB	114	38.918	1.51	2.0	1.11	55
13C-2,3',4,4',5-PeCB	118	38.365	1.59	2.0	1.15	57
13C-2,3',4,4',5'-PeCB	123	38.030	1.54	2.0	1.14	57
13C-3,3',4,4',5-PeCB	126	42.742	1.58	2.0	0.973	49
13C-2,2',4,4',6,6'-HxCB	155	32.995	1.25	2.0	2.32	116
13C-HxCB (156/157)	156/157	45.816	1.27	4.0	2.24	56
13C-2,3',4,4',5,5'-HxCB	167	44.659	1.26	2.0	1.16	58
13C-3,3',4,4',5,5'-HxCB	169	49.119	1.26	2.0	1.25	63
13C-2,2',3,4',5,6,6'-HpCB	188	38.918	1.03	2.0	2.49	125
13C-2,3,3',4,4',5,5'-HpCB	189	51.697	1.04	2.0	1.51	75
13C-2,2',3,3',5,5',6,6'-OxCB	202	44.407	0.89	2.0	1.91	95
13C-2,3,3',4,4',5,5',6-OxCB	205	54.305	0.88	2.0	1.81	90
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.051	0.79	2.0	2.02	101
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.223	0.78	2.0	2.27	113
13C-DeCB	209	57.689	0.71	2.0	2.08	104
Cleanup Standards						
13C-2,4,4'-TrCB	28	23.860	1.04	2.0	1.32	66
13C-2,3,3',5,5'-PeCB	111	35.996	1.55	2.0	1.60	80
13C-2,2',3,3',5,5',6-HpCB	178	42.037	1.07	2.0	1.90	95
Recovery Standards						
13C-2,5-DiCB	9	15.773	1.54	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.856	0.79	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.196	1.56	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.568	1.22	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OxCB	194	53.810	0.88	2.0	NA	NA

R = Recovery outside of Method 1668A control limits
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Method 1668A Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-BKG1-202305
Lab Sample ID 40262368007
Filename P230529B_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.00540
2		---	---	ND	---	0.00491
3		---	---	ND	---	0.00426
4		---	---	ND A	---	0.0132
5		---	---	ND A	---	0.00493
6		---	---	ND	---	0.00907
7		---	---	ND	---	0.00900
8		---	---	ND	---	0.0119
9		---	---	ND A	---	0.00430
10		---	---	ND A	---	0.00945
11		---	---	ND	---	0.140
12	12/13	---	---	ND	---	0.00509
13	12/13	---	---	ND	---	0.00509
14		---	---	ND A	---	0.00445
15		---	---	ND	---	0.00584
16		---	---	ND	---	0.00596
17		19.851	1.37	---	0.00985	0.00499
18	18/30	---	---	ND	---	0.0110
19		---	---	ND	---	0.00807
20	20/28	23.891	1.11	0.0378 J	---	0.0176
21	21/33	---	---	ND	---	0.0127
22		---	---	ND	---	0.00733
23		---	---	ND A	---	0.00258
24		---	---	ND A	---	0.00198
25		23.180	1.10	0.00576 J	---	0.00277
26	26/29	22.948	1.10	0.00809 J	---	0.00443
27		---	---	ND	---	0.00195
28	20/28	23.891	1.11	(0.0378) J	---	0.0176
29	26/29	22.948	1.10	(0.00809) J	---	0.00443
30	18/30	---	---	ND	---	0.0110
31		---	---	ND	---	0.0170
32		20.983	0.90	0.0212 J	---	0.00708
33	21/33	---	---	ND	---	0.0127
34		---	---	ND A	---	0.00257
35		---	---	ND	---	0.00310
36		---	---	ND A	---	0.00241
37		---	---	ND	---	0.00408
38		---	---	ND A	---	0.00243
39		---	---	ND A	---	0.00236
40	40/41/71	28.084	0.74	0.0355 J	---	0.00785
41	40/41/71	28.084	0.74	(0.0355) J	---	0.00785
42		27.558	0.75	0.0234 J	---	0.00426
43	43/73	---	---	ND	---	0.00379
44	44/47/65	27.032	0.81	0.117 J	---	0.0181

Conc = Concentration
EML = Method Reporting/Quantitation Limit (1668A)
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Report No.....10654073



Method 1668A Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-BKG1-202305
Lab Sample ID 40262368007
Filename P230529B_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
45	45/51	24.077	0.84	0.0314 J	---	0.00557
46		24.324	0.74	0.0137 J	---	0.00221
47	44/47/65	27.032	0.81	(0.117) J	---	0.0181
48		---	---	ND	---	0.00282
49	49/69	26.428	0.79	0.111 J	---	0.00654
50	50/53	23.226	0.76	0.0488 J	---	0.00368
51	45/51	24.077	0.84	(0.0314) J	---	0.00557
52		25.872	0.79	0.0942 J	---	0.0161
53	50/53	23.226	0.76	(0.0488) J	---	0.00368
54		20.797	0.78	0.00256 J	---	0.00156
55		---	---	ND A	---	0.00262
56		---	---	ND	---	0.00981
57		---	---	ND A	---	0.00234
58		---	---	ND A	---	0.00260
59	59/62/75	27.357	0.87	0.00423 J	---	0.00402
60		---	---	ND	---	0.00333
61	61/70/74/76	31.014	0.70	0.0363 J	---	0.0311
62	59/62/75	27.357	0.87	(0.00423) J	---	0.00402
63		30.674	0.79	0.00407 JA	---	0.00246
64		28.316	0.93	--- IJ	0.00744	0.00544
65	44/47/65	27.032	0.81	(0.117) J	---	0.0181
66		31.401	0.69	0.0346 J	---	0.0213
67		---	---	ND A	---	0.00233
68		29.529	0.63	--- IJA	0.00297	0.00245
69	49/69	26.428	0.79	(0.111) J	---	0.00654
70	61/70/74/76	31.014	0.70	(0.0363) J	---	0.0311
71	40/41/71	28.084	0.74	(0.0355) J	---	0.00785
72		29.220	1.07	--- IJA	0.00280	0.00245
73	43/73	---	---	ND	---	0.00379
74	61/70/74/76	31.014	0.70	(0.0363) J	---	0.0311
75	59/62/75	27.357	0.87	(0.00423) J	---	0.00402
76	61/70/74/76	31.014	0.70	(0.0363) J	---	0.0311
77		---	---	ND	---	0.00257
78		---	---	ND A	---	0.00254
79		---	---	ND	---	0.00226
80		---	---	ND A	---	0.00235
81		---	---	ND A	---	0.00238
82		35.625	1.32	0.00884 J	---	0.00250
83		33.707	1.08	--- IJA	0.00668	0.00254
84		31.247	1.72	0.0318 J	---	0.0129
85	85/116/117	35.114	1.43	0.0237 J	---	0.00505
86	86/87/97/108/119/125	34.372	1.49	0.0753 J	---	0.0148
87	86/87/97/108/119/125	34.372	1.49	(0.0753) J	---	0.0148
88	88/91	31.030	1.32	0.0289 J	---	0.00480

Conc = Concentration
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Method 1668A Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-BKG1-202305
Lab Sample ID 40262368007
Filename P230529B_08

Table with 7 columns: IUPAC, Co-elutions, RT, Ratio, Concentration ng/L, EMPC ng/L, EML ng/L. Rows 89-132.

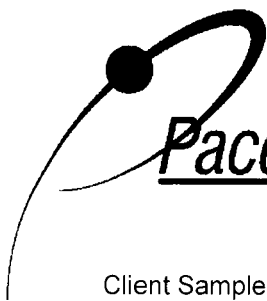
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Method 1668A Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-BKG1-202305
Lab Sample ID 40262368007
Filename P230529B_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
133		---	---	ND A	---	0.00299
134	134/143	37.443	1.14	0.00796 J	---	0.00389
135	135/151	36.259	1.28	0.0329 J	---	0.00505
136		33.737	1.34	0.0130 J	---	0.00279
137		41.166	1.48	--- IJA	0.00715	0.00310
138	129/138/163	41.602	1.15	(0.111) J	---	0.0106
139	139/140	---	---	ND	---	0.00428
140	139/140	---	---	ND	---	0.00428
141		40.545	1.15	0.0157 JA	---	0.00300
142		---	---	ND A	---	0.00307
143	134/143	37.443	1.14	(0.00796) J	---	0.00389
144		36.847	1.50	--- IJ	0.00297	0.00203
145		---	---	ND	---	0.00195
146		39.690	1.31	0.0135 JA	---	0.00261
147	147/149	37.208	1.31	0.0795 J	---	0.00874
148		---	---	ND	---	0.00228
149	147/149	37.208	1.31	(0.0795) J	---	0.00874
150		---	---	ND	---	0.00127
151	135/151	36.259	1.28	(0.0329) J	---	0.00505
152		---	---	ND	---	0.00207
153	153/168	40.327	1.17	0.0729 J	---	0.00751
154		---	---	ND	---	0.00171
155		---	---	ND	---	0.00150
156	156/157	45.783	1.17	0.0156 J	---	0.00433
157	156/157	45.783	1.17	(0.0156) J	---	0.00433
158		42.004	1.17	0.0113 J	---	0.00252
159		---	---	ND	---	0.00273
160		---	---	ND	---	0.00252
161		---	---	ND A	---	0.00219
162		---	---	ND	---	0.00226
163	129/138/163	41.602	1.15	(0.111) J	---	0.0106
164		41.266	1.42	0.00687 J	---	0.00236
165		---	---	ND A	---	0.00241
166	128/166	42.876	1.19	(0.0208) J	---	0.00424
167		44.692	1.17	0.00555 J	---	0.00209
168	153/168	40.327	1.17	(0.0729) J	---	0.00751
169		---	---	ND	---	0.00156
170		48.533	1.31	--- IJ	0.00954	0.00484
171	171/173	---	---	ND	---	0.00592
172		---	---	ND	---	0.0137
173	171/173	---	---	ND	---	0.00592
174		43.871	1.08	0.00958 J	---	0.00311
175		---	---	ND	---	0.00148
176		---	---	ND	---	0.00219

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-BKG1-202305
 Lab Sample ID 40262368007
 Filename P230529B_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
177		44.340	0.93	0.00544 J	---	0.00327
178		---	---	ND	---	0.00221
179		39.271	0.93	0.00398 J	---	0.00236
180	180/193	47.258	0.99	0.0175 J	---	0.00559
181		---	---	ND A	---	0.00268
182		---	---	ND	---	0.00252
183	183/185	43.636	0.89	0.00567 J	---	0.00553
184		---	---	ND	---	0.00203
185	183/185	43.636	0.89	(0.00567) J	---	0.00553
186		---	---	ND	---	0.00153
187		43.010	0.96	0.00883 J	---	0.00319
188		---	---	ND	---	0.00242
189		---	---	ND	---	0.00211
190		---	---	ND	---	0.00248
191		---	---	ND	---	0.00213
192		---	---	ND	---	0.00242
193	180/193	47.258	0.99	(0.0175) J	---	0.00559
194		---	---	ND	---	0.00183
195		---	---	ND	---	0.00168
196		---	---	ND	---	0.00170
197	197/200	---	---	ND	---	0.00460
198	198/199	49.237	0.97	0.00315 J	---	0.00277
199	198/199	49.237	0.97	(0.00315) J	---	0.00277
200	197/200	---	---	ND	---	0.00460
201		---	---	ND	---	0.00141
202		---	---	ND	---	0.00226
203		50.125	0.96	0.00196 J	---	0.00177
204		---	---	ND	---	0.00164
205		---	---	ND	---	0.00193
206		---	---	ND	---	0.00375
207		---	---	ND	---	0.00224
208		---	---	ND	---	0.00219
209		---	---	ND	---	0.0168

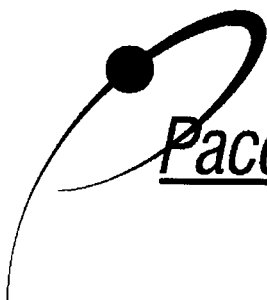
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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-BKG1-202305
Lab Sample ID 40262368007
Filename P230529B_08

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	0.0729
Total Tetrachloro Biphenyls	0.557
Total Pentachloro Biphenyls	0.799
Total Hexachloro Biphenyls	0.453
Total Heptachloro Biphenyls	0.0510
Total Octachloro Biphenyls	0.00510
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	1.94

ND = Not Detected

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Method 1668A Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-OU3-202305	Matrix	Water
Lab Sample ID	40262368008	Dilution	NA
Filename	P230529B_09	Collected	05/16/2023 15:10
Injected By	BAL	Received	05/20/2023 18:45
Total Amount Extracted	1030 mL	Extracted	05/23/2023 12:15
% Moisture	NA	Analyzed	05/30/2023 00:28
Dry Weight Extracted	NA		
ICAL ID	P230529B02		
CCal Filename(s)	P230529B_01		
Method Blank ID	BLANK-106282		

PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.137	2.99	2.0	1.48	74
13C-4-MoCB	3	12.964	3.09	2.0	1.61	80
13C-2,2'-DiCB	4	13.269	1.56	2.0	2.23	112
13C-4,4'-DiCB	15	20.404	1.56	2.0	1.80	90
13C-2,2',6-TrCB	19	17.122	1.02	2.0	2.23	112
13C-3,4,4'-TrCB	37	28.208	1.01	2.0	1.32	66
13C-2,2',6,6'-TeCB	54	20.751	0.78	2.0	1.52	76
13C-3,4,4',5-TeCB	81	35.362	0.79	2.0	1.38	69
13C-3,3',4,4'-TeCB	77	35.934	0.80	2.0	1.32	66
13C-2,2',4,6,6'-PeCB	104	26.909	1.58	2.0	1.82	91
13C-2,3,3',4,4'-PeCB	105	39.556	1.62	2.0	1.09	55
13C-2,3,4,4',5-PeCB	114	38.918	1.57	2.0	1.11	56
13C-2,3',4,4',5-PeCB	118	38.348	1.58	2.0	1.12	56
13C-2,3',4,4',5'-PeCB	123	38.013	1.56	2.0	1.11	55
13C-3,3',4,4',5-PeCB	126	42.725	1.50	2.0	0.910	46
13C-2,2',4,4',6,6'-HxCB	155	32.979	1.23	2.0	2.47	124
13C-HxCB (156/157)	156/157	45.816	1.23	4.0	2.22	55
13C-2,3',4,4',5,5'-HxCB	167	44.642	1.27	2.0	1.17	58
13C-3,3',4,4',5,5'-HxCB	169	49.103	1.24	2.0	1.25	62
13C-2,2',3,4',5,6,6'-HpCB	188	38.918	1.02	2.0	2.33	116
13C-2,3,3',4,4',5,5'-HpCB	189	51.676	1.04	2.0	1.49	74
13C-2,2',3,3',5,5',6,6'-OxCB	202	44.407	0.91	2.0	1.71	85
13C-2,3,3',4,4',5,5',6-OxCB	205	54.284	0.90	2.0	1.80	90
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.051	0.80	2.0	2.04	102
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.201	0.80	2.0	2.18	109
13C-DeCB	209	57.689	0.74	2.0	2.11	105
Cleanup Standards						
13C-2,4,4'-TrCB	28	23.845	1.04	2.0	1.28	64
13C-2,3,3',5,5'-PeCB	111	35.981	1.53	2.0	1.57	78
13C-2,2',3,3',5,5',6-HpCB	178	42.021	1.06	2.0	1.94	97
Recovery Standards						
13C-2,5-DiCB	9	15.751	1.56	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.841	0.78	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.181	1.53	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.568	1.25	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OxCB	194	53.810	0.90	2.0	NA	NA

R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

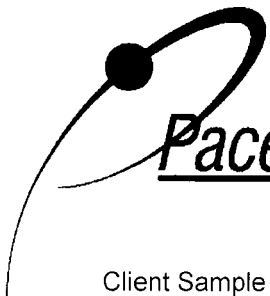
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Method 1668A Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-OU3-202305
Lab Sample ID 40262368008
Filename P230529B_09

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		10.159	2.89	0.225 J	---	0.00540
2		---	---	ND	---	0.00492
3		12.986	1.30	---	0.0184	0.00426
4		13.292	1.43	1.24 A	---	0.0186
5		---	---	ND A	---	0.00550
6		16.259	1.51	0.175 J	---	0.00908
7		15.983	1.53	0.0738 J	---	0.00900
8		16.790	1.40	0.0883 J	---	0.0119
9		15.773	1.45	0.0300 JA	---	0.00479
10		13.529	1.63	0.0195 JA	---	0.0125
11		---	---	ND	---	0.141
12	12/13	20.017	1.48	0.0108 JA	---	0.00514
13	12/13	20.017	1.48	(0.0108) JA	---	0.00514
14		---	---	ND A	---	0.00495
15		20.404	1.50	0.108 J	---	0.00585
16		20.360	0.96	0.0436 J	---	0.00596
17		19.851	0.99	1.08	---	0.00500
18	18/30	19.365	1.01	0.275 J	---	0.0110
19		17.143	1.03	0.935	---	0.00807
20	20/28	23.861	0.99	0.450 J	---	0.0176
21	21/33	24.124	1.00	0.0328 J	---	0.0127
22		24.573	1.03	0.0295 J	---	0.00734
23		---	---	ND A	---	0.00240
24		---	---	ND A	---	0.00192
25		23.180	1.03	0.641	---	0.00277
26	26/29	22.917	1.05	1.22	---	0.00443
27		20.084	1.00	0.130 J	---	0.00196
28	20/28	23.861	0.99	(0.450) J	---	0.0176
29	26/29	22.917	1.05	(1.22)	---	0.00443
30	18/30	19.365	1.01	(0.275) J	---	0.0110
31		23.536	1.02	0.230 J	---	0.0171
32		20.968	1.02	0.444	---	0.00709
33	21/33	24.124	1.00	(0.0328) J	---	0.0127
34		22.422	1.14	0.0264 JA	---	0.00239
35		27.790	0.92	0.00465 J	---	0.00310
36		---	---	ND A	---	0.00224
37		28.254	1.19	0.0224 J	---	0.00409
38		---	---	ND A	---	0.00226
39		---	---	ND A	---	0.00219
40	40/41/71	28.069	0.77	0.913 J	---	0.00786
41	40/41/71	28.069	0.77	(0.913) J	---	0.00786
42		27.527	0.79	0.509	---	0.00426
43	43/73	26.042	0.74	0.172 J	---	0.00379
44	44/47/65	27.017	0.77	2.73	---	0.0181

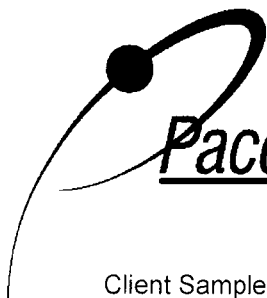
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REPORT OF LABORATORY ANALYSIS

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Report No.....10654073



Method 1668A Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-OU3-202305
Lab Sample ID 40262368008
Filename P230529B_09

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
45	45/51	24.046	0.75	0.725 J	---	0.00558
46		24.294	0.74	0.224 J	---	0.00221
47	44/47/65	27.017	0.77	(2.73)	---	0.0181
48		26.723	0.85	0.0166 J	---	0.00283
49	49/69	26.413	0.78	3.84	---	0.00654
50	50/53	23.211	0.77	0.982	---	0.00368
51	45/51	24.046	0.75	(0.725) J	---	0.00558
52		25.872	0.78	5.10	---	0.0161
53	50/53	23.211	0.77	(0.982)	---	0.00368
54		20.767	0.79	0.0849 J	---	0.00156
55		---	---	ND	---	0.00209
56		32.097	0.73	0.0926 J	---	0.00982
57		29.978	0.77	0.173 JA	---	0.00183
58		30.226	0.81	0.0216 JA	---	0.00203
59	59/62/75	27.388	0.75	0.163 J	---	0.00403
60		32.330	0.71	0.0113 J	---	0.00333
61	61/70/74/76	30.999	0.77	0.865 J	---	0.0312
62	59/62/75	27.388	0.75	(0.163) J	---	0.00403
63		30.690	0.84	0.0958 JA	---	0.00192
64		28.301	0.78	0.323 J	---	0.00544
65	44/47/65	27.017	0.77	(2.73)	---	0.0181
66		31.386	0.73	0.636 J	---	0.0213
67		30.396	0.80	0.0627 J	---	0.00219
68		29.514	0.87	0.128 J	---	0.00244
69	49/69	26.413	0.78	(3.84)	---	0.00654
70	61/70/74/76	30.999	0.77	(0.865) J	---	0.0312
71	40/41/71	28.069	0.77	(0.913) J	---	0.00786
72		29.205	0.76	0.178 JA	---	0.00192
73	43/73	26.042	0.74	(0.172) J	---	0.00379
74	61/70/74/76	30.999	0.77	(0.865) J	---	0.0312
75	59/62/75	27.388	0.75	(0.163) J	---	0.00403
76	61/70/74/76	30.999	0.77	(0.865) J	---	0.0312
77		35.950	0.72	0.0351 J	---	0.00258
78		---	---	ND	---	0.00225
79		34.341	0.67	0.0276 J	---	0.00227
80		---	---	ND	---	0.00207
81		35.347	0.80	0.00194 JA	---	0.00175
82		35.594	1.55	0.126 J	---	0.00250
83		33.691	1.51	0.345 JA	---	0.00251
84		31.247	1.50	0.864	---	0.0129
85	85/116/117	35.099	1.60	0.446 J	---	0.00505
86	86/87/97/108/119/125	34.341	1.51	1.57 J	---	0.0148
87	86/87/97/108/119/125	34.341	1.51	(1.57) J	---	0.0148
88	88/91	31.030	1.56	0.832 J	---	0.00480

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EML = Method Reporting/Quantitation Limit (1668A)
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REPORT OF LABORATORY ANALYSIS

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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-OU3-202305
 Lab Sample ID 40262368008
 Filename P230529B_09

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
89		31.742	1.79	---	0.0127	0.00304
90	90/101/113	33.211	1.53	2.85	---	0.0116
91	88/91	31.030	1.56	(0.832) J	---	0.00480
92		32.593	1.50	1.52	---	0.00381
93	93/98/100/102	30.365	1.52	0.315 J	---	0.00550
94		29.622	1.56	0.158 JA	---	0.00233
95		30.086	1.53	2.86	---	0.00846
96		27.311	1.41	0.0529 J	---	0.00306
97	86/87/97/108/119/125	34.341	1.51	(1.57) J	---	0.0148
98	93/98/100/102	30.365	1.52	(0.315) J	---	0.00550
99		33.830	1.56	1.31	---	0.00575
100	93/98/100/102	30.365	1.52	(0.315) J	---	0.00550
101	90/101/113	33.211	1.53	(2.85)	---	0.0116
102	93/98/100/102	30.365	1.52	(0.315) J	---	0.00550
103		29.406	1.56	0.122 JA	---	0.00197
104		26.924	1.49	0.00532 J	---	0.00149
105		39.590	1.51	0.472 J	---	0.00552
106		---	---	ND A	---	0.00290
107	107/124	37.678	1.50	0.0611 JA	---	0.00318
108	86/87/97/108/119/125	34.341	1.51	(1.57) J	---	0.0148
109		37.929	1.51	0.245 JA	---	0.00299
110	110/115	35.269	1.55	4.27	---	0.0126
111		35.996	1.63	0.0146 J	---	0.00199
112		---	---	ND	---	0.00172
113	90/101/113	33.211	1.53	(2.85)	---	0.0116
114		38.918	1.76	0.0122 JA	---	0.00290
115	110/115	35.269	1.55	(4.27)	---	0.0126
116	85/116/117	35.099	1.60	(0.446) J	---	0.00505
117	85/116/117	35.099	1.60	(0.446) J	---	0.00505
118		38.382	1.51	1.58	---	0.00871
119	86/87/97/108/119/125	34.341	1.51	(1.57) J	---	0.0148
120		36.491	1.56	0.0306 J	---	0.00166
121		32.221	1.30	---	0.00721	0.00161
122		38.734	1.51	0.0152 JA	---	0.00338
123		38.047	1.49	0.0236 JA	---	0.00317
124	107/124	37.678	1.50	(0.0611) JA	---	0.00318
125	86/87/97/108/119/125	34.341	1.51	(1.57) J	---	0.0148
126		42.742	1.33	0.00696 JA	---	0.00295
127		---	---	ND A	---	0.00299
128	128/166	42.876	1.31	0.353 J	---	0.00424
129	129/138/163	41.585	1.25	1.97	---	0.0106
130		40.914	1.24	0.186 JA	---	0.00562
131		38.030	0.95	---	0.0240	0.00595
132		38.483	1.18	0.912 A	---	0.00535

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Report No.....10654073

**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

 Client Sample ID NR-SW-OU3-202305
 Lab Sample ID 40262368008
 Filename P230529B_09

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
133		39.002	1.37	0.0813 JA	---	0.00506
134	134/143	37.410	1.27	0.205 JA	---	0.00578
135	135/151	36.228	1.28	1.02	---	0.00505
136		33.722	1.18	0.401 J	---	0.00279
137		41.149	1.17	0.0997 JA	---	0.00525
138	129/138/163	41.585	1.25	(1.97)	---	0.0106
139	139/140	37.828	1.24	0.0578 JA	---	0.00487
140	139/140	37.828	1.24	(0.0578) JA	---	0.00487
141		40.512	1.25	0.226 JA	---	0.00508
142		---	---	ND A	---	0.00520
143	134/143	37.410	1.27	(0.205) JA	---	0.00578
144		36.832	1.17	0.0565 J	---	0.00203
145		---	---	ND	---	0.00196
146		39.673	1.29	0.368 JA	---	0.00441
147	147/149	37.191	1.22	2.06	---	0.00875
148		35.656	1.27	0.0176 J	---	0.00228
149	147/149	37.191	1.22	(2.06)	---	0.00875
150		33.351	1.23	0.0146 J	---	0.00127
151	135/151	36.228	1.28	(1.02)	---	0.00505
152		33.211	1.32	0.00960 J	---	0.00207
153	153/168	40.311	1.27	1.35	---	0.00751
154		36.538	1.34	0.0743 J	---	0.00171
155		---	---	ND	---	0.00150
156	156/157	45.833	1.22	0.263 J	---	0.00434
157	156/157	45.833	1.22	(0.263) J	---	0.00434
158		42.004	1.26	0.165 JA	---	0.00295
159		43.837	1.07	0.00890 J	---	0.00273
160		---	---	ND A	---	0.00346
161		---	---	ND A	---	0.00372
162		44.156	1.16	0.00766 JA	---	0.00257
163	129/138/163	41.585	1.25	(1.97)	---	0.0106
164		41.266	1.27	0.136 JA	---	0.00338
165		39.388	1.55	--- IJA	0.00686	0.00409
166	128/166	42.876	1.31	(0.353) J	---	0.00424
167		44.659	1.14	0.0842 JA	---	0.00262
168	153/168	40.311	1.27	(1.35)	---	0.00751
169		---	---	ND A	---	0.00272
170		48.533	1.03	0.249 J	---	0.00484
171	171/173	44.961	1.04	0.0829 J	---	0.00592
172		46.587	0.99	0.0473 J	---	0.0137
173	171/173	44.961	1.04	(0.0829) J	---	0.00592
174		43.837	1.07	0.227 J	---	0.00312
175		42.708	1.18	0.0116 J	---	0.00148
176		40.160	1.03	0.0392 J	---	0.00219

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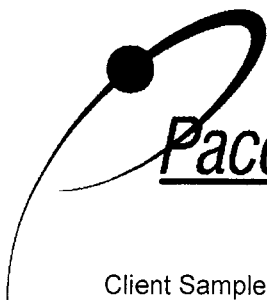
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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-OU3-202305
Lab Sample ID 40262368008
Filename P230529B_09

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
177		44.290	1.08	0.194 J	---	0.00327
178		42.038	0.93	0.0913 J	---	0.00221
179		39.254	1.01	0.153 J	---	0.00236
180	180/193	47.258	1.01	0.423 J	---	0.00560
181		44.726	1.03	0.00509 J	---	0.00267
182		43.195	1.05	0.00306 J	---	0.00252
183	183/185	43.636	1.05	0.144 J	---	0.00554
184		---	---	ND	---	0.00203
185	183/185	43.636	1.05	(0.144) J	---	0.00554
186		---	---	ND	---	0.00153
187		42.977	1.04	0.349 J	---	0.00319
188		---	---	ND	---	0.00242
189		51.697	1.02	0.0109 J	---	0.00211
190		49.069	0.98	0.0539 J	---	0.00248
191		47.593	1.08	0.00974 J	---	0.00213
192		---	---	ND	---	0.00242
193	180/193	47.258	1.01	(0.423) J	---	0.00560
194		53.831	0.86	0.0966 J	---	0.00183
195		51.482	1.01	0.0410 J	---	0.00168
196		49.924	0.89	0.0510 J	---	0.00170
197	197/200	46.419	1.10	--- IJ	0.0183	0.00461
198	198/199	49.237	0.82	0.135 J	---	0.00277
199	198/199	49.237	0.82	(0.135) J	---	0.00277
200	197/200	46.419	1.10	--- IJ	(0.0183)	0.00461
201		45.380	0.70	--- IJ	0.0113	0.00141
202		44.441	0.88	0.0260 J	---	0.00227
203		50.125	0.94	0.0699 J	---	0.00178
204		---	---	ND	---	0.00165
205		54.284	0.97	0.00525 J	---	0.00194
206		56.073	0.93	--- IJ	0.0302	0.00376
207		52.193	0.70	0.00517 J	---	0.00225
208		51.201	0.56	--- IJ	0.00559	0.00219
209		---	---	ND	---	0.0168

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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-OU3-202305
Lab Sample ID 40262368008
Filename P230529B_09

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	0.225
Total Dichloro Biphenyls	1.74
Total Trichloro Biphenyls	5.57
Total Tetrachloro Biphenyls	18.1
Total Pentachloro Biphenyls	20.1
Total Hexachloro Biphenyls	10.1
Total Heptachloro Biphenyls	2.09
Total Octachloro Biphenyls	0.425
Total Nonachloro Biphenyls	0.00517
Decachloro Biphenyls	ND
Total PCBs	58.4

ND = Not Detected

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Method 1668A Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-OU2-202305	Matrix	Water
Lab Sample ID	40262368009	Dilution	NA
Filename	P230529B_10	Collected	05/16/2023 16:15
Injected By	BAL	Received	05/20/2023 18:45
Total Amount Extracted	1040 mL	Extracted	05/23/2023 12:15
% Moisture	NA	Analyzed	05/30/2023 01:31
Dry Weight Extracted	NA		
ICAL ID	P230529B02		
CCal Filename(s)	P230529B_01		
Method Blank ID	BLANK-106282		

PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.159	2.87	2.0	1.58	79
13C-4-MoCB	3	12.975	3.04	2.0	1.67	84
13C-2,2'-DiCB	4	13.280	1.49	2.0	2.31	115
13C-4,4'-DiCB	15	20.404	1.52	2.0	1.75	87
13C-2,2',6-TrCB	19	17.132	0.98	2.0	2.39	120
13C-3,4,4'-TrCB	37	28.207	1.05	2.0	1.25	63
13C-2,2',6,6'-TeCB	54	20.750	0.80	2.0	1.50	75
13C-3,4,4',5'-TeCB	81	35.361	0.77	2.0	1.35	68
13C-3,3',4,4'-TeCB	77	35.934	0.81	2.0	1.28	64
13C-2,2',4,6,6'-PeCB	104	26.908	1.57	2.0	1.82	91
13C-2,3,3',4,4'-PeCB	105	39.572	1.61	2.0	1.07	53
13C-2,3,4,4',5'-PeCB	114	38.918	1.56	2.0	1.02	51
13C-2,3',4,4',5'-PeCB	118	38.365	1.58	2.0	1.09	54
13C-2,3',4,4',5'-PeCB	123	38.029	1.61	2.0	1.08	54
13C-3,3',4,4',5'-PeCB	126	42.742	1.49	2.0	0.901	45
13C-2,2',4,4',6,6'-HxCB	155	32.994	1.28	2.0	2.42	121
13C-HxCB (156/157)	156/157	45.816	1.29	4.0	2.10	52
13C-2,3',4,4',5,5'-HxCB	167	44.642	1.28	2.0	1.13	56
13C-3,3',4,4',5,5'-HxCB	169	49.102	1.27	2.0	1.21	60
13C-2,2',3,4',5,6,6'-HpCB	188	38.918	1.04	2.0	2.28	114
13C-2,3,3',4,4',5,5'-HpCB	189	51.697	1.06	2.0	1.37	69
13C-2,2',3,3',5,5',6,6'-OcCB	202	44.407	0.91	2.0	1.64	82
13C-2,3,3',4,4',5,5',6'-OcCB	205	54.283	0.89	2.0	1.74	87
13C-2,2',3,3',4,4',5,5',6'-NoCB	206	56.050	0.78	2.0	1.96	98
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.201	0.79	2.0	2.04	102
13C-DeCB	209	57.689	0.68	2.0	2.13	106
Cleanup Standards						
13C-2,4,4'-TrCB	28	23.845	1.03	2.0	1.16	58
13C-2,3,3',5,5'-PeCB	111	35.996	1.55	2.0	1.50	75
13C-2,2',3,3',5,5',6'-HpCB	178	42.020	1.04	2.0	1.75	87
Recovery Standards						
13C-2,5-DiCB	9	15.762	1.54	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.856	0.80	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.195	1.58	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.568	1.24	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	53.809	0.87	2.0	NA	NA

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Report No.....10654073



Method 1668A Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-OU2-202305
Lab Sample ID 40262368009
Filename P230529B_10

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		10.170	2.90	0.290	---	0.00535
2		---	---	ND	---	0.00487
3		12.986	2.04	---	0.0228 IJ	0.00422
4		13.303	1.47	1.81	A	0.0178
5		16.657	0.93	---	IJA	0.00574
6		16.270	1.47	0.194	J	0.00899
7		15.993	1.58	0.0941	J	0.00891
8		16.800	1.53	0.161	J	0.0117
9		15.762	1.32	---	IJA	0.00919
10		---	---	ND	A	0.0125
11		---	---	ND	---	0.139
12	12/13	20.017	1.61	0.0171	JA	0.00537
13	12/13	20.017	1.61	(0.0171)	JA	0.00537
14		---	---	ND	A	0.00517
15		20.426	1.60	0.244	J	0.00579
16		20.360	1.08	0.0798	J	0.00590
17		19.840	1.03	1.88	---	0.00495
18	18/30	19.365	1.02	0.323	J	0.0109
19		17.154	0.99	1.56	---	0.00799
20	20/28	23.860	1.02	0.753	J	0.0174
21	21/33	24.061	1.08	0.0369	J	0.0126
22		24.556	0.93	0.0574	J	0.00726
23		---	---	ND	A	0.00206
24		---	---	ND	---	0.00183
25		23.195	1.01	0.638	---	0.00274
26	26/29	22.916	0.99	1.24	---	0.00439
27		20.094	1.01	0.103	J	0.00194
28	20/28	23.860	1.02	(0.753)	J	0.0174
29	26/29	22.916	0.99	(1.24)	---	0.00439
30	18/30	19.365	1.02	(0.323)	J	0.0109
31		23.535	1.04	0.288	J	0.0169
32		20.983	1.01	0.784	---	0.00702
33	21/33	24.061	1.08	(0.0369)	J	0.0126
34		22.421	1.02	0.0220	JA	0.00205
35		27.805	1.31	---	IJ	0.00479
36		---	---	ND	---	0.00194
37		28.223	1.11	0.0443	J	0.00404
38		---	---	ND	A	0.00194
39		---	---	ND	A	0.00188
40	40/41/71	28.068	0.78	1.41	J	0.00778
41	40/41/71	28.068	0.78	(1.41)	J	0.00778
42		27.527	0.76	0.748	---	0.00422
43	43/73	26.042	0.74	0.237	J	0.00376
44	44/47/65	27.031	0.76	4.27	---	0.0179

Conc = Concentration
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REPORT OF LABORATORY ANALYSIS

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Report No.....10654073

Method 1668A Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-OU2-202305
 Lab Sample ID 40262368009
 Filename P230529B_10

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
45	45/51	24.061	0.78	1.25	---	0.00552
46		24.309	0.79	0.337 J	---	0.00219
47	44/47/65	27.031	0.76	(4.27)	---	0.0179
48		26.722	0.81	0.0395 J	---	0.00280
49	49/69	26.413	0.76	4.71	---	0.00648
50	50/53	23.210	0.77	1.32	---	0.00364
51	45/51	24.061	0.78	(1.25)	---	0.00552
52		25.871	0.77	6.03	---	0.0159
53	50/53	23.210	0.77	(1.32)	---	0.00364
54		20.766	0.74	0.144 J	---	0.00154
55		---	---	ND A	---	0.00291
56		32.082	0.79	0.139 J	---	0.00972
57		29.962	0.74	0.158 JA	---	0.00260
58		30.209	0.81	0.0373 JA	---	0.00289
59	59/62/75	27.387	0.79	0.216 J	---	0.00399
60		32.298	1.02	--- IJ	0.0150	0.00330
61	61/70/74/76	31.014	0.79	1.44 J	---	0.0309
62	59/62/75	27.387	0.79	(0.216) J	---	0.00399
63		30.689	0.79	0.142 JA	---	0.00273
64		28.300	0.78	0.444 J	---	0.00539
65	44/47/65	27.031	0.76	(4.27)	---	0.0179
66		31.385	0.76	1.11	---	0.0211
67		30.411	0.79	0.0753 JA	---	0.00259
68		29.529	0.78	0.163 JA	---	0.00273
69	49/69	26.413	0.76	(4.71)	---	0.00648
70	61/70/74/76	31.014	0.79	(1.44) J	---	0.0309
71	40/41/71	28.068	0.78	(1.41) J	---	0.00778
72		29.204	0.77	0.204 JA	---	0.00273
73	43/73	26.042	0.74	(0.237) J	---	0.00376
74	61/70/74/76	31.014	0.79	(1.44) J	---	0.0309
75	59/62/75	27.387	0.79	(0.216) J	---	0.00399
76	61/70/74/76	31.014	0.79	(1.44) J	---	0.0309
77		35.965	0.83	0.0601 JA	---	0.00263
78		---	---	ND A	---	0.00283
79		34.371	0.79	0.0621 JA	---	0.00246
80		---	---	ND A	---	0.00261
81		35.346	0.84	0.00429 JA	---	0.00256
82		35.609	1.61	0.184 J	---	0.00247
83		33.706	1.60	0.434 J	---	0.00230
84		31.246	1.54	1.17	---	0.0128
85	85/116/117	35.114	1.63	0.645 J	---	0.00500
86	86/87/97/108/119/125	34.356	1.57	2.45 J	---	0.0146
87	86/87/97/108/119/125	34.356	1.57	(2.45) J	---	0.0146
88	88/91	31.029	1.52	1.16	---	0.00475

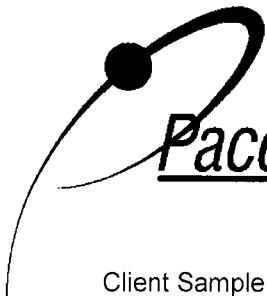
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Report No.....10654073



Method 1668A Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-OU2-202305
Lab Sample ID 40262368009
Filename P230529B_10

Table with 7 columns: IUPAC, Co-elutions, RT, Ratio, Concentration ng/L, EMPC ng/L, EML ng/L. Rows 89-132.

Conc = Concentration
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Lab Sample ID 40262368009
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IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
133		39.019	1.28	0.103 JA	---	0.00433
134	134/143	37.409	1.11	0.285 JA	---	0.00494
135	135/151	36.228	1.24	1.40	---	0.00500
136		33.722	1.27	0.565	---	0.00276
137		41.148	1.21	0.148 JA	---	0.00449
138	129/138/163	41.601	1.23	(2.99)	---	0.0105
139	139/140	37.828	1.18	0.0844 J	---	0.00424
140	139/140	37.828	1.18	(0.0844) J	---	0.00424
141		40.511	1.33	0.382 JA	---	0.00434
142		---	---	ND A	---	0.00445
143	134/143	37.409	1.11	(0.285) JA	---	0.00494
144		36.831	1.27	0.104 J	---	0.00201
145		---	---	ND	---	0.00194
146		39.689	1.22	0.531 A	---	0.00377
147	147/149	37.208	1.23	2.92	---	0.00866
148		35.640	1.14	0.0235 J	---	0.00226
149	147/149	37.208	1.23	(2.92)	---	0.00866
150		33.396	1.17	0.0200 J	---	0.00126
151	135/151	36.228	1.24	(1.40)	---	0.00500
152		33.180	1.40	0.0135 J	---	0.00205
153	153/168	40.327	1.28	2.25	---	0.00744
154		36.521	1.28	0.0944 J	---	0.00169
155		---	---	ND	---	0.00148
156	156/157	45.816	1.26	0.413 J	---	0.00429
157	156/157	45.816	1.26	(0.413) J	---	0.00429
158		42.004	1.22	0.254 JA	---	0.00252
159		43.870	1.34	0.0107 J	---	0.00270
160		---	---	ND A	---	0.00296
161		---	---	ND A	---	0.00318
162		44.172	1.40	0.0117 J	---	0.00224
163	129/138/163	41.601	1.23	(2.99)	---	0.0105
164		41.266	1.26	0.225 JA	---	0.00289
165		39.421	1.56	--- IJA	0.00710	0.00350
166	128/166	42.893	1.21	(0.546) J	---	0.00420
167		44.659	1.23	0.130 J	---	0.00207
168	153/168	40.327	1.28	(2.25)	---	0.00744
169		49.102	1.95	--- IJA	0.00277	0.00193
170		48.532	1.02	0.370 J	---	0.00479
171	171/173	44.960	1.01	0.128 J	---	0.00587
172		46.604	1.14	0.0670 J	---	0.0136
173	171/173	44.960	1.01	(0.128) J	---	0.00587
174		43.854	1.05	0.355 J	---	0.00309
175		42.708	1.00	0.0161 J	---	0.00146
176		40.193	0.95	0.0563 J	---	0.00217

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Report No.....10654073

**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-OU2-202305
 Lab Sample ID 40262368009
 Filename P230529B_10

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
177		44.306	1.05	0.273 J	---	0.00324
178		42.054	1.08	0.121 J	---	0.00219
179		39.287	0.97	0.209 J	---	0.00234
180	180/193	47.257	0.99	0.669 J	---	0.00554
181		44.725	0.88	0.0107 J	---	0.00265
182		43.194	1.37	--- IJ	0.00370	0.00249
183	183/185	43.619	1.06	0.217 J	---	0.00548
184		---	---	ND	---	0.00201
185	183/185	43.619	1.06	(0.217) J	---	0.00548
186		---	---	ND	---	0.00151
187		42.993	1.06	0.504	---	0.00316
188		---	---	ND	---	0.00240
189		51.718	1.19	0.0165 JA	---	0.00268
190		49.085	1.08	0.0833 J	---	0.00245
191		47.626	0.85	--- IJ	0.0124	0.00211
192		---	---	ND	---	0.00240
193	180/193	47.257	0.99	(0.669) J	---	0.00554
194		53.831	0.90	0.140 J	---	0.00181
195		51.460	0.85	0.0643 JA	---	0.00180
196		49.924	0.93	0.0697 J	---	0.00169
197	197/200	46.402	1.02	0.0301 J	---	0.00456
198	198/199	49.270	0.85	0.190 J	---	0.00274
199	198/199	49.270	0.85	(0.190) J	---	0.00274
200	197/200	46.402	1.02	(0.0301) J	---	0.00456
201		45.380	0.85	0.0222 J	---	0.00140
202		44.424	0.88	0.0350 J	---	0.00224
203		50.125	0.86	0.0965 J	---	0.00176
204		---	---	ND	---	0.00163
205		54.326	1.00	0.00845 J	---	0.00192
206		56.094	0.82	0.0396 J	---	0.00372
207		52.193	0.85	0.00673 J	---	0.00222
208		51.223	0.98	--- IJ	0.00804	0.00217
209		---	---	ND	---	0.0167

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Report No.....10654073

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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-OU2-202305
Lab Sample ID 40262368009
Filename P230529B_10

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	0.290
Total Dichloro Biphenyls	2.52
Total Trichloro Biphenyls	7.81
Total Tetrachloro Biphenyls	24.7
Total Pentachloro Biphenyls	29.8
Total Hexachloro Biphenyls	15.2
Total Heptachloro Biphenyls	3.09
Total Octachloro Biphenyls	0.655
Total Nonachloro Biphenyls	0.0463
Decachloro Biphenyls	ND
Total PCBs	84.1

ND = Not Detected

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Report No.....10654073

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Method 1668A Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID NR-SW-OU1-202305
Lab Sample ID 40262368010
Filename P230529B_11
Injected By BAL
Total Amount Extracted 1040 mL
% Moisture NA
Dry Weight Extracted NA
ICAL ID P230529B02
CCal Filename(s) P230529B_01
Method Blank ID BLANK-106282
Matrix Water
Dilution NA
Collected 05/16/2023 17:00
Received 05/20/2023 18:45
Extracted 05/23/2023 12:15
Analyzed 05/30/2023 02:34

PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.103	3.07	2.0	1.54	77
13C-4-MoCB	3	12.941	3.04	2.0	1.71	86
13C-2,2'-DiCB	4	13.247	1.64	2.0	2.36	118
13C-4,4'-DiCB	15	20.382	1.55	2.0	1.85	92
13C-2,2',6-TrCB	19	17.110	1.02	2.0	2.43	121
13C-3,4,4'-TrCB	37	28.208	1.05	2.0	1.24	62
13C-2,2',6,6'-TeCB	54	20.736	0.80	2.0	1.54	77
13C-3,4,4',5'-TeCB	81	35.347	0.78	2.0	1.37	69
13C-3,3',4,4'-TeCB	77	35.935	0.76	2.0	1.36	68
13C-2,2',4,6,6'-PeCB	104	26.893	1.66	2.0	1.69	85
13C-2,3,3',4,4'-PeCB	105	39.573	1.58	2.0	1.05	52
13C-2,3,4,4',5'-PeCB	114	38.902	1.55	2.0	1.03	52
13C-2,3',4,4',5'-PeCB	118	38.366	1.61	2.0	1.05	53
13C-2,3',4,4',5'-PeCB	123	38.013	1.55	2.0	1.04	52
13C-3,3',4,4',5'-PeCB	126	42.726	1.56	2.0	0.871	44
13C-2,2',4,4',6,6'-HxCB	155	32.979	1.24	2.0	2.49	124
13C-HxCB (156/157)	156/157	45.816	1.27	4.0	2.15	54
13C-2,3',4,4',5,5'-HxCB	167	44.642	1.22	2.0	1.13	57
13C-3,3',4,4',5,5'-HxCB	169	49.103	1.26	2.0	1.21	61
13C-2,2',3,4',5,6,6'-HpCB	188	38.919	1.04	2.0	2.40	120
13C-2,3,3',4,4',5,5'-HpCB	189	51.654	1.03	2.0	1.43	72
13C-2,2',3,3',5,5',6,6'-OoCB	202	44.391	0.87	2.0	1.83	91
13C-2,3,3',4,4',5,5',6-OoCB	205	54.284	0.89	2.0	1.73	87
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.051	0.76	2.0	1.99	99
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.202	0.78	2.0	2.17	109
13C-DeCB	209	57.689	0.69	2.0	2.17	108
Cleanup Standards						
13C-2,4,4'-TrCB	28	23.830	1.05	2.0	1.18	59
13C-2,3,3',5,5'-PeCB	111	35.981	1.54	2.0	1.45	72
13C-2,2',3,3',5,5',6-HpCB	178	42.021	1.04	2.0	1.80	90
Recovery Standards						
13C-2,5-DiCB	9	15.740	1.59	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.841	0.79	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.181	1.54	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.552	1.25	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OoCB	194	53.810	0.89	2.0	NA	NA

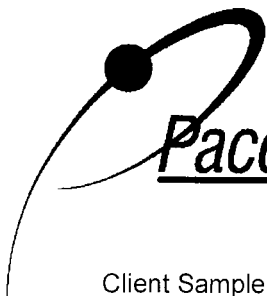
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Report No.....10654073



Method 1668A Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-OU1-202305
Lab Sample ID 40262368010
Filename P230529B_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		10.125	2.69	0.0110 J	---	0.00536
2		---	---	ND	---	0.00488
3		---	---	ND	---	0.00423
4		13.269	1.34	0.125 JA	---	0.0158
5		---	---	ND A	---	0.00468
6		16.237	1.42	0.0120 J	---	0.00901
7		---	---	ND	---	0.00894
8		16.779	1.54	0.0171 J	---	0.0118
9		---	---	ND A	---	0.00408
10		---	---	ND A	---	0.0111
11		---	---	ND	---	0.140
12	12/13	---	---	ND	---	0.00505
13	12/13	---	---	ND	---	0.00505
14		---	---	ND A	---	0.00422
15		20.415	1.38	0.0574 J	---	0.00580
16		20.349	0.98	0.0131 J	---	0.00592
17		19.840	1.00	0.151 J	---	0.00496
18	18/30	19.332	1.05	0.0602 J	---	0.0110
19		17.132	1.00	0.152 J	---	0.00801
20	20/28	23.861	1.01	0.116 J	---	0.0175
21	21/33	---	---	ND	---	0.0126
22		24.541	1.14	0.0118 J	---	0.00728
23		---	---	ND A	---	0.00194
24		---	---	ND	---	0.00184
25		23.180	1.03	0.0671 J	---	0.00275
26	26/29	22.902	1.01	0.130 J	---	0.00440
27		20.084	1.01	0.0156 J	---	0.00194
28	20/28	23.861	1.01	(0.116) J	---	0.0175
29	26/29	22.902	1.01	(0.130) J	---	0.00440
30	18/30	19.332	1.05	(0.0602) J	---	0.0110
31		23.520	1.02	0.0544 J	---	0.0169
32		20.968	1.07	0.0737 J	---	0.00703
33	21/33	---	---	ND	---	0.0126
34		---	---	ND A	---	0.00194
35		---	---	ND	---	0.00307
36		---	---	ND	---	0.00194
37		---	---	ND	---	0.00406
38		---	---	ND A	---	0.00183
39		---	---	ND A	---	0.00178
40	40/41/71	28.053	0.77	0.188 J	---	0.00780
41	40/41/71	28.053	0.77	(0.188) J	---	0.00780
42		27.527	0.77	0.133 J	---	0.00423
43	43/73	26.027	0.71	0.0240 J	---	0.00377
44	44/47/65	27.017	0.76	0.792 J	---	0.0179

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Report No.....10654073



**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-OU1-202305
 Lab Sample ID 40262368010
 Filename P230529B_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
45	45/51	24.046	0.74	0.146 J	---	0.00553
46		24.294	0.74	0.0536 J	---	0.00219
47	44/47/65	27.017	0.76	(0.792) J	---	0.0179
48		26.723	0.84	0.0131 J	---	0.00281
49	49/69	26.398	0.77	0.842 J	---	0.00650
50	50/53	23.195	0.74	0.214 J	---	0.00365
51	45/51	24.046	0.74	(0.146) J	---	0.00553
52		25.872	0.77	1.57	---	0.0160
53	50/53	23.195	0.74	(0.214) J	---	0.00365
54		20.767	0.72	0.0162 J	---	0.00155
55		---	---	ND	---	0.00208
56		32.082	0.69	0.0377 J	---	0.00974
57		29.962	0.75	0.0106 JA	---	0.00179
58		30.194	1.07	--- IJA	0.00370	0.00199
59	59/62/75	27.388	0.75	0.0287 J	---	0.00400
60		32.314	0.85	0.00702 J	---	0.00331
61	61/70/74/76	31.014	0.77	0.340 J	---	0.0309
62	59/62/75	27.388	0.75	(0.0287) J	---	0.00400
63		30.659	0.82	0.0147 JA	---	0.00188
64		28.285	0.77	0.126 J	---	0.00540
65	44/47/65	27.017	0.76	(0.792) J	---	0.0179
66		31.370	0.66	0.204 J	---	0.0211
67		30.396	0.82	0.00631 J	---	0.00217
68		29.499	0.79	0.0163 J	---	0.00242
69	49/69	26.398	0.77	(0.842) J	---	0.00650
70	61/70/74/76	31.014	0.77	(0.340) J	---	0.0309
71	40/41/71	28.053	0.77	(0.188) J	---	0.00780
72		29.205	0.67	0.0202 JA	---	0.00188
73	43/73	26.027	0.71	(0.0240) J	---	0.00377
74	61/70/74/76	31.014	0.77	(0.340) J	---	0.0309
75	59/62/75	27.388	0.75	(0.0287) J	---	0.00400
76	61/70/74/76	31.014	0.77	(0.340) J	---	0.0309
77		35.996	0.82	0.00839 J	---	0.00256
78		---	---	ND	---	0.00223
79		34.341	0.80	0.0113 J	---	0.00225
80		---	---	ND	---	0.00206
81		---	---	ND A	---	0.00182
82		35.594	1.68	0.0862 J	---	0.00248
83		33.676	1.38	0.0986 J	---	0.00231
84		31.231	1.43	0.309 J	---	0.0128
85	85/116/117	35.099	1.57	0.284 J	---	0.00502
86	86/87/97/108/119/125	34.434	1.52	0.829 J	---	0.0147
87	86/87/97/108/119/125	34.434	1.52	(0.829) J	---	0.0147
88	88/91	31.030	1.49	0.270 J	---	0.00477

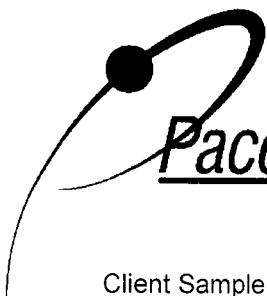
Conc = Concentration
 EML =Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

ND = Not Detected
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Report No.....10654073



Method 1668A Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-OU1-202305
Lab Sample ID 40262368010
Filename P230529B_11

Table with 8 columns: IUPAC, Co-elutions, RT, Ratio, Concentration ng/L, EMPC ng/L, EML ng/L. Rows 89-132 containing analytical data.

Conc = Concentration
EML =Method Reporting/Quantitation Limit (1668A)
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Method 1668A Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-OU1-202305
Lab Sample ID 40262368010
Filename P230529B_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
133		38.986	1.22	0.0161 J	---	0.00258
134	134/143	37.410	1.17	0.0582 J	---	0.00386
135	135/151	36.228	1.28	0.342 J	---	0.00502
136		33.722	1.18	0.117 J	---	0.00277
137		41.149	1.15	0.0478 J	---	0.00248
138	129/138/163	41.585	1.30	(0.732) J	---	0.0106
139	139/140	37.812	1.31	0.0263 J	---	0.00425
140	139/140	37.812	1.31	(0.0263) J	---	0.00425
141		40.495	1.24	0.116 J	---	0.00238
142		---	---	ND A	---	0.00235
143	134/143	37.410	1.17	(0.0582) J	---	0.00386
144		36.832	1.09	0.0298 J	---	0.00202
145		---	---	ND	---	0.00194
146		39.674	1.20	0.114 J	---	0.00246
147	147/149	37.192	1.23	0.650 J	---	0.00869
148		35.625	1.27	0.00230 J	---	0.00227
149	147/149	37.192	1.23	(0.650) J	---	0.00869
150		33.382	1.84	--- IJ	0.00249	0.00126
151	135/151	36.228	1.28	(0.342) J	---	0.00502
152		---	---	ND	---	0.00206
153	153/168	40.311	1.19	0.638 J	---	0.00746
154		36.522	1.14	0.0175 J	---	0.00170
155		---	---	ND	---	0.00149
156	156/157	45.833	1.18	0.0680 J	---	0.00430
157	156/157	45.833	1.18	(0.0680) J	---	0.00430
158		41.988	1.23	0.0585 J	---	0.00250
159		---	---	ND	---	0.00271
160		---	---	ND	---	0.00250
161		---	---	ND	---	0.00180
162		---	---	ND	---	0.00225
163	129/138/163	41.585	1.30	(0.732) J	---	0.0106
164		41.250	1.27	0.0468 J	---	0.00234
165		---	---	ND	---	0.00200
166	128/166	42.877	1.21	(0.117) J	---	0.00421
167		44.659	1.21	0.0214 J	---	0.00208
168	153/168	40.311	1.19	(0.638) J	---	0.00746
169		---	---	ND A	---	0.00197
170		48.533	1.13	0.0513 J	---	0.00480
171	171/173	44.944	1.12	0.0215 J	---	0.00588
172		---	---	ND	---	0.0136
173	171/173	44.944	1.12	(0.0215) J	---	0.00588
174		43.838	1.02	0.0552 J	---	0.00309
175		42.659	2.13	--- IJ	0.00229	0.00147
176		40.143	1.22	--- IJ	0.00598	0.00217

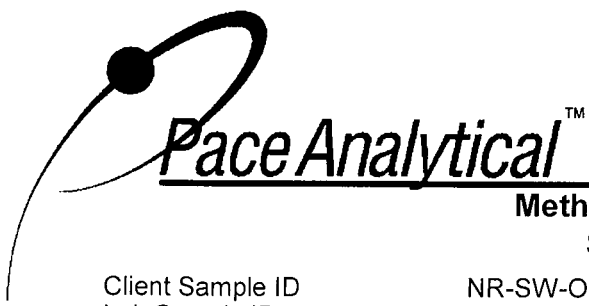
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**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-OU1-202305
 Lab Sample ID 40262368010
 Filename P230529B_11

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
177		44.307	1.05	0.0385 J	---	0.00325
178		42.038	0.95	0.0181 J	---	0.00219
179		39.271	0.89	0.0344 J	---	0.00234
180	180/193	47.258	1.09	0.0899 J	---	0.00555
181		---	---	ND	---	0.00265
182		---	---	ND	---	0.00250
183	183/185	43.620	1.16	0.0429 J	---	0.00550
184		---	---	ND	---	0.00202
185	183/185	43.620	1.16	(0.0429) J	---	0.00550
186		---	---	ND	---	0.00152
187		42.977	0.97	0.0878 J	---	0.00317
188		---	---	ND	---	0.00240
189		---	---	ND	---	0.00209
190		49.069	0.90	0.0114 J	---	0.00246
191		---	---	ND	---	0.00211
192		---	---	ND	---	0.00240
193	180/193	47.258	1.09	(0.0899) J	---	0.00555
194		53.853	0.79	0.0163 J	---	0.00181
195		51.460	1.82	--- IJ	0.00447	0.00167
196		49.924	0.82	0.00871 J	---	0.00169
197	197/200	---	---	ND	---	0.00457
198	198/199	49.254	0.83	0.0221 J	---	0.00275
199	198/199	49.254	0.83	(0.0221) J	---	0.00275
200	197/200	---	---	ND	---	0.00457
201		45.380	1.08	--- IJ	0.00208	0.00140
202		44.424	0.88	0.00440 J	---	0.00225
203		50.109	1.16	--- IJ	0.0106	0.00176
204		---	---	ND	---	0.00163
205		---	---	ND	---	0.00192
206		56.073	0.70	0.00567 J	---	0.00373
207		---	---	ND	---	0.00223
208		---	---	ND	---	0.00217
209		---	---	ND	---	0.0167

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Report No.....10654073



**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-OU1-202305
Lab Sample ID 40262368010
Filename P230529B_11

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	0.0110
Total Dichloro Biphenyls	0.211
Total Trichloro Biphenyls	0.845
Total Tetrachloro Biphenyls	4.82
Total Pentachloro Biphenyls	8.84
Total Hexachloro Biphenyls	3.54
Total Heptachloro Biphenyls	0.451
Total Octachloro Biphenyls	0.0514
Total Nonachloro Biphenyls	0.00567
Decachloro Biphenyls	ND
Total PCBs	18.8

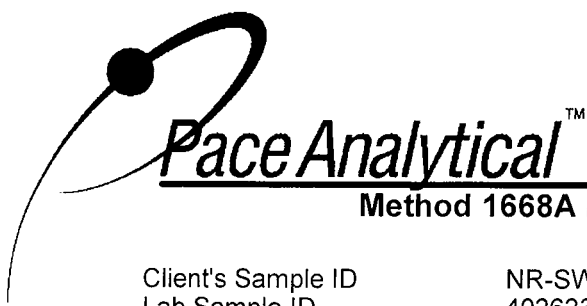
ND = Not Detected

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Report No.....10654073

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Method 1668A Polychlorobiphenyl Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	NR-SW-BKG2-202305	Matrix	Water
Lab Sample ID	40262368011	Dilution	NA
Filename	P230531B_08	Collected	05/16/2023 17:40
Injected By	CVS	Received	05/20/2023 18:45
Total Amount Extracted	1040 mL	Extracted	05/26/2023 11:40
% Moisture	NA	Analyzed	06/01/2023 04:43
Dry Weight Extracted	NA		
ICAL ID	P230531B02		
CCal Filename(s)	P230531B_01		
Method Blank ID	BLANK-106448		

PCB Isomer	IUPAC	RT	Ratio	ng's Added	ng's Found	% Recovery
Labeled Analytes						
13C-2-MoCB	1	10.114	3.20	2.0	1.09	55
13C-4-MoCB	3	12.941	3.14	2.0	1.35	67
13C-2,2'-DiCB	4	13.246	1.53	2.0	1.33	66
13C-4,4'-DiCB	15	20.359	1.57	2.0	1.53	76
13C-2,2',6-TrCB	19	17.087	1.02	2.0	1.43	72
13C-3,4,4'-TrCB	37	28.175	1.09	2.0	1.39	70
13C-2,2',6,6'-TeCB	54	20.719	0.79	2.0	1.13	57
13C-3,4,4',5-TeCB	81	35.328	0.81	2.0	1.44	72
13C-3,3',4,4'-TeCB	77	35.900	0.78	2.0	1.39	70
13C-2,2',4,6,6'-PeCB	104	26.860	1.55	2.0	1.31	66
13C-2,3,3',4,4'-PeCB	105	39.517	1.61	2.0	1.39	70
13C-2,3,4,4',5-PeCB	114	38.880	1.58	2.0	1.37	68
13C-2,3',4,4',5-PeCB	118	38.327	1.60	2.0	1.35	68
13C-2,3',4,4',5'-PeCB	123	37.975	1.56	2.0	1.38	69
13C-3,3',4,4',5-PeCB	126	42.686	1.56	2.0	1.29	64
13C-2,2',4,4',6,6'-HxCB	155	32.945	1.24	2.0	1.33	66
13C-HxCB (156/157)	156/157	45.777	1.27	4.0	2.57	64
13C-2,3',4,4',5,5'-HxCB	167	44.603	1.28	2.0	1.34	67
13C-3,3',4,4',5,5'-HxCB	169	49.063	1.25	2.0	1.21	61
13C-2,2',3,4',5,6,6'-HpCB	188	38.863	1.04	2.0	1.46	73
13C-2,3,3',4,4',5,5'-HpCB	189	51.626	1.05	2.0	1.52	76
13C-2,2',3,3',5,5',6,6'-OcCB	202	44.351	0.89	2.0	1.41	71
13C-2,3,3',4,4',5,5',6-OcCB	205	54.234	0.91	2.0	1.33	67
13C-2,2',3,3',4,4',5,5',6-NoCB	206	56.001	0.80	2.0	1.25	62
13C-2,2',3,3',4,4',5,5',6,6'-NoCB	208	51.152	0.79	2.0	1.38	69
13C-DeCB	209	57.639	0.70	2.0	1.20	60
Cleanup Standards						
13C-2,4,4'-TrCB	28	23.797	1.04	2.0	1.22	61
13C-2,3,3',5,5'-PeCB	111	35.946	1.57	2.0	1.08	54
13C-2,2',3,3',5,5',6-HpCB	178	41.982	1.04	2.0	1.04	52
Recovery Standards						
13C-2,5-DiCB	9	15.728	1.56	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.808	0.80	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.146	1.58	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.529	1.25	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	53.759	0.91	2.0	NA	NA

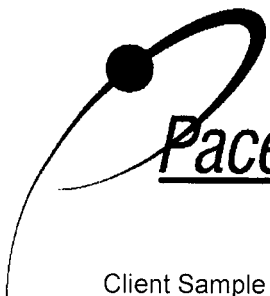
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Method 1668A Polychlorobiphenyl Sample Analysis Results

Client Sample ID NR-SW-BKG2-202305
Lab Sample ID 40262368011
Filename P230531B_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
1		---	---	ND	---	0.00535
2		---	---	ND	---	0.00487
3		---	---	ND	---	0.00422
4		---	---	ND	---	0.00721
5		16.767	1.08	--- IJA	0.00489	0.00442
6		---	---	ND	---	0.00899
7		---	---	ND	---	0.00891
8		---	---	ND	---	0.0117
9		---	---	ND A	---	0.00386
10		---	---	ND A	---	0.00389
11		---	---	ND	---	0.139
12	12/13	---	---	ND	---	0.00504
13	12/13	---	---	ND	---	0.00504
14		---	---	ND A	---	0.00395
15		---	---	ND	---	0.00579
16		---	---	ND	---	0.00590
17		---	---	ND	---	0.00495
18	18/30	---	---	ND	---	0.0109
19		---	---	ND	---	0.00799
20	20/28	---	---	ND	---	0.0174
21	21/33	---	---	ND	---	0.0126
22		---	---	ND	---	0.00726
23		---	---	ND	---	0.00152
24		---	---	ND	---	0.00183
25		---	---	ND	---	0.00274
26	26/29	---	---	ND	---	0.00439
27		---	---	ND	---	0.00194
28	20/28	---	---	ND	---	0.0174
29	26/29	---	---	ND	---	0.00439
30	18/30	---	---	ND	---	0.0109
31		---	---	ND	---	0.0169
32		---	---	ND	---	0.00702
33	21/33	---	---	ND	---	0.0126
34		---	---	ND	---	0.00156
35		---	---	ND	---	0.00307
36		---	---	ND	---	0.00194
37		---	---	ND	---	0.00404
38		---	---	ND	---	0.00142
39		---	---	ND	---	0.00158
40	40/41/71	---	---	ND	---	0.00778
41	40/41/71	---	---	ND	---	0.00778
42		---	---	ND	---	0.00422
43	43/73	---	---	ND	---	0.00376
44	44/47/65	---	---	ND	---	0.0179

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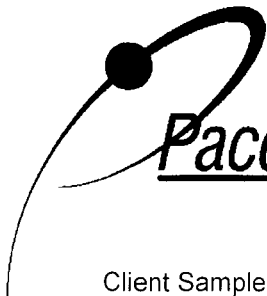
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Method 1668A Polychlorobiphenyl
Sample Analysis Results

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Lab Sample ID 40262368011
Filename P230531B_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
45	45/51	---	---	ND	---	0.00552
46		---	---	ND	---	0.00219
47	44/47/65	---	---	ND	---	0.0179
48		---	---	ND	---	0.00280
49	49/69	26.380	0.83	0.0102 J	---	0.00648
50	50/53	---	---	ND	---	0.00364
51	45/51	---	---	ND	---	0.00552
52		---	---	ND	---	0.0159
53	50/53	---	---	ND	---	0.00364
54		---	---	ND	---	0.00154
55		---	---	ND	---	0.00207
56		---	---	ND	---	0.00972
57		---	---	ND	---	0.00144
58		---	---	ND	---	0.00183
59	59/62/75	---	---	ND	---	0.00399
60		---	---	ND	---	0.00330
61	61/70/74/76	---	---	ND	---	0.0309
62	59/62/75	---	---	ND	---	0.00399
63		---	---	ND	---	0.00168
64		---	---	ND	---	0.00539
65	44/47/65	---	---	ND	---	0.0179
66		---	---	ND	---	0.0211
67		---	---	ND	---	0.00217
68		---	---	ND	---	0.00242
69	49/69	26.380	0.83	(0.0102) J	---	0.00648
70	61/70/74/76	---	---	ND	---	0.0309
71	40/41/71	---	---	ND	---	0.00778
72		---	---	ND	---	0.00170
73	43/73	---	---	ND	---	0.00376
74	61/70/74/76	---	---	ND	---	0.0309
75	59/62/75	---	---	ND	---	0.00399
76	61/70/74/76	---	---	ND	---	0.0309
77		---	---	ND	---	0.00255
78		---	---	ND	---	0.00222
79		---	---	ND	---	0.00224
80		---	---	ND	---	0.00205
81		---	---	ND	---	0.00171
82		---	---	ND	---	0.00247
83		---	---	ND	---	0.00230
84		---	---	ND	---	0.0128
85	85/116/117	---	---	ND	---	0.00500
86	86/87/97/108/119/125	---	---	ND	---	0.0146
87	86/87/97/108/119/125	---	---	ND	---	0.0146
88	88/91	---	---	ND	---	0.00475

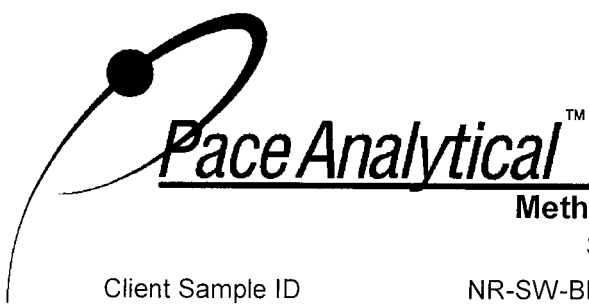
Conc = Concentration
EML = Method Reporting/Quantitation Limit (1668A)
EMPC = Estimated Maximum Possible Concentration
A = Limit of Detection based on signal to noise (EDL)
B = Less than 10 times higher than method blank level
R = Recovery outside of Method 1668A control limits
Nn = Value obtained from additional analyses

ND = Not Detected
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NC = Not Calculated
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Report No.....10654073



**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-BKG2-202305
 Lab Sample ID 40262368011
 Filename P230531B_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
89		---	---	ND	---	0.00301
90	90/101/113	33.178	1.51	0.0130 J	---	0.0115
91	88/91	---	---	ND	---	0.00475
92		32.528	1.16	---	0.00479	0.00378
93	93/98/100/102	---	---	ND	---	0.00544
94		---	---	ND	---	0.00182
95		---	---	ND	---	0.00838
96		---	---	ND	---	0.00303
97	86/87/97/108/119/125	---	---	ND	---	0.0146
98	93/98/100/102	---	---	ND	---	0.00544
99		33.796	1.53	0.00682 J	---	0.00569
100	93/98/100/102	---	---	ND	---	0.00544
101	90/101/113	33.178	1.51	(0.0130) J	---	0.0115
102	93/98/100/102	---	---	ND	---	0.00544
103		---	---	ND	---	0.00189
104		---	---	ND	---	0.00147
105		---	---	ND	---	0.00546
106		---	---	ND	---	0.00171
107	107/124	---	---	ND	---	0.00253
108	86/87/97/108/119/125	---	---	ND	---	0.0146
109		---	---	ND	---	0.00192
110	110/115	35.219	1.59	0.0138 J	---	0.0125
111		---	---	ND	---	0.00197
112		---	---	ND	---	0.00170
113	90/101/113	33.178	1.51	(0.0130) J	---	0.0115
114		---	---	ND	---	0.00220
115	110/115	35.219	1.59	(0.0138) J	---	0.0125
116	85/116/117	---	---	ND	---	0.00500
117	85/116/117	---	---	ND	---	0.00500
118		38.343	1.63	0.0113 J	---	0.00863
119	86/87/97/108/119/125	---	---	ND	---	0.0146
120		---	---	ND	---	0.00164
121		---	---	ND	---	0.00125
122		---	---	ND	---	0.00187
123		---	---	ND	---	0.00213
124	107/124	---	---	ND	---	0.00253
125	86/87/97/108/119/125	---	---	ND	---	0.0146
126		---	---	ND	---	0.00215
127		---	---	ND	---	0.00129
128	128/166	---	---	ND	---	0.00420
129	129/138/163	---	---	ND	---	0.0105
130		---	---	ND A	---	0.00215
131		---	---	ND	---	0.00272
132		---	---	ND	---	0.00397

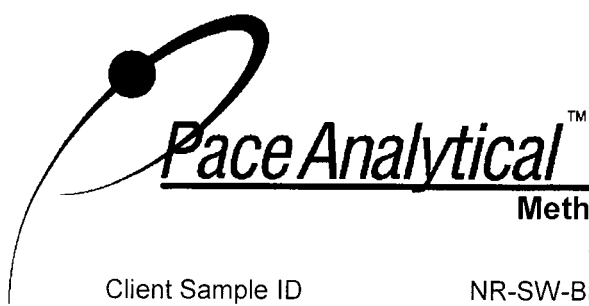
Conc = Concentration
 EML =Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

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Report No.....10654073



**Method 1668A Polychlorobiphenyl
 Sample Analysis Results**

Client Sample ID NR-SW-BKG2-202305
 Lab Sample ID 40262368011
 Filename P230531B_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
133		---	---	ND	---	0.00257
134	134/143	---	---	ND	---	0.00385
135	135/151	---	---	ND	---	0.00500
136		---	---	ND	---	0.00276
137		---	---	ND	---	0.00247
138	129/138/163	---	---	ND	---	0.0105
139	139/140	---	---	ND	---	0.00424
140	139/140	---	---	ND	---	0.00424
141		---	---	ND	---	0.00238
142		---	---	ND	A	0.00195
143	134/143	---	---	ND	---	0.00385
144		---	---	ND	---	0.00201
145		---	---	ND	---	0.00194
146		---	---	ND	---	0.00245
147	147/149	---	---	ND	---	0.00866
148		---	---	ND	---	0.00226
149	147/149	---	---	ND	---	0.00866
150		---	---	ND	---	0.00126
151	135/151	---	---	ND	---	0.00500
152		---	---	ND	---	0.00205
153	153/168	40.272	1.22	0.00967 J	---	0.00744
154		---	---	ND	---	0.00169
155		---	---	ND	---	0.00148
156	156/157	---	---	ND	---	0.00429
157	156/157	---	---	ND	---	0.00429
158		---	---	ND	---	0.00249
159		---	---	ND	---	0.00270
160		---	---	ND	---	0.00249
161		---	---	ND	---	0.00180
162		---	---	ND	---	0.00224
163	129/138/163	---	---	ND	---	0.0105
164		---	---	ND	---	0.00234
165		---	---	ND	---	0.00199
166	128/166	---	---	ND	---	0.00420
167		---	---	ND	---	0.00207
168	153/168	40.272	1.22	(0.00967) J	---	0.00744
169		---	---	ND	---	0.00155
170		---	---	ND	---	0.00479
171	171/173	---	---	ND	---	0.00587
172		---	---	ND	---	0.0136
173	171/173	---	---	ND	---	0.00587
174		---	---	ND	---	0.00309
175		---	---	ND	---	0.00146
176		---	---	ND	---	0.00217

Conc = Concentration
 EML = Method Reporting/Quantitation Limit (1668A)
 EMPC = Estimated Maximum Possible Concentration
 A = Limit of Detection based on signal to noise (EDL)
 B = Less than 10 times higher than method blank level
 R = Recovery outside of Method 1668A control limits
 Nn = Value obtained from additional analyses

ND = Not Detected
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Method 1668A Polychlorobiphenyl
Sample Analysis Results

Client Sample ID NR-SW-BKG2-202305
Lab Sample ID 40262368011
Filename P230531B_08

IUPAC	Co-elutions	RT	Ratio	Concentration ng/L	EMPC ng/L	EML ng/L
177		---	---	ND	---	0.00324
178		---	---	ND	---	0.00219
179		---	---	ND	---	0.00234
180	180/193	---	---	ND	---	0.00554
181		---	---	ND	---	0.00265
182		---	---	ND	---	0.00249
183	183/185	---	---	ND	---	0.00548
184		---	---	ND	---	0.00201
185	183/185	---	---	ND	---	0.00548
186		---	---	ND	---	0.00151
187		---	---	ND	---	0.00316
188		---	---	ND	---	0.00240
189		---	---	ND	---	0.00209
190		---	---	ND	---	0.00245
191		---	---	ND	---	0.00211
192		---	---	ND	---	0.00240
193	180/193	---	---	ND	---	0.00554
194		---	---	ND	---	0.00181
195		---	---	ND	---	0.00167
196		---	---	ND	---	0.00169
197	197/200	---	---	ND	---	0.00456
198	198/199	---	---	ND	---	0.00274
199	198/199	---	---	ND	---	0.00274
200	197/200	---	---	ND	---	0.00456
201		---	---	ND	---	0.00140
202		---	---	ND	---	0.00224
203		---	---	ND	---	0.00176
204		---	---	ND	---	0.00163
205		---	---	ND	---	0.00192
206		---	---	ND	---	0.00372
207		---	---	ND	---	0.00222
208		---	---	ND	---	0.00217
209		---	---	ND	---	0.0167

Conc = Concentration
EML = Method Reporting/Quantitation Limit (1668A)
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**Method 1668A Polychlorobiphenyl
Sample Analysis Results**

Client Sample ID NR-SW-BKG2-202305
Lab Sample ID 40262368011
Filename P230531B_08

Congener Group	Concentration ng/L
Total Monochloro Biphenyls	ND
Total Dichloro Biphenyls	ND
Total Trichloro Biphenyls	ND
Total Tetrachloro Biphenyls	0.0102
Total Pentachloro Biphenyls	0.0450
Total Hexachloro Biphenyls	0.00967
Total Heptachloro Biphenyls	ND
Total Octachloro Biphenyls	ND
Total Nonachloro Biphenyls	ND
Decachloro Biphenyls	ND
Total PCBs	0.0648

ND = Not Detected

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Table X. Surface Water Sampling Results
 Hayton Area Remediation Project – Long-Term Natural Recovery Monitoring
 BRTS No. 02-08-587669

Sample ID	NR-SW-BKG1	NR-SW-BKG2	NR-SW-DS1	NR-SW-DS2 **	NR-SW-DS2 **	NR-SW-EB	NR-SW-FB	NR-SW-OU1	NR-SW-OU2	NR-SW-OU3	NR-SW-OU4		
Type	N	N	N	N	N	EB	FB	N	N	N	N		
Sample Date	05/16/2023	05/16/2023	05/16/2023	05/16/2023	05/16/2023	05/16/2023	05/16/2023	05/16/2023	05/16/2023	05/16/2023	05/16/2023		
SYS_SAMPLE_CODE	NR-SW-BKG1-202305	NR-SW-BKG2-202305	NR-SW-DS1-202305	NR-SW-DS2-202305	NR-SW-DUP1-202305	NR-SW-EB-202305	NR-SW-FB-202305	NR-SW-OU1-202305	NR-SW-OU2-202305	NR-SW-OU3-202305	NR-SW-OU4-202305		
Method	Parameter	Units	NR-SW-BKG1-202305	NR-SW-BKG2-202305	NR-SW-DS1-202305	NR-SW-DS2-202305	NR-SW-DUP1-202305	NR-SW-EB-202305	NR-SW-FB-202305	NR-SW-OU1-202305	NR-SW-OU2-202305	NR-SW-OU3-202305	NR-SW-OU4-202305
SM2540D	Total Suspended Solids (TSS)	mg/L	9.6	3.1	20.2	71.4	57.4	--	--	4.9	7.9	12.2	14.5
SM5310C	Dissolved Organic Carbon	mg/L	10.8	8.0	10.2	10.1	10.6	--	--	5.3	5.9	6.3	11.3
SM5310C	Total Organic Carbon	mg/L	10.5	7.0	9.3	9.4	9.6	--	--	4.5	5.0	5.6	10.4
E1668C	PCB-1 (2-MoCB)	ng/L	< 0.00540	< 0.00535	0.0285 J	< 0.00581	0.0290 J	< 0.00537	< 0.00533	0.0110 J	0.290	0.225	< 0.00535
E1668C	PCB-2 (3-MoCB)	ng/L	< 0.00491	< 0.00487	< 0.00486	< 0.00529	< 0.00487	< 0.00489	< 0.00486	< 0.00488	< 0.00487	< 0.00492	< 0.00487
E1668C	PCB-3 (4-MoCB)	ng/L	< 0.00426	< 0.00422	< 0.00421	< 0.00458	< 0.00422	< 0.00423	< 0.00421	< 0.00423	0.0228 J	0.0184 J	< 0.00422
E1668C	PCB-4 (2,2'-DiCB)	ng/L	< 0.00727	< 0.00721	0.154	< 0.00783	0.148	< 0.00724	< 0.00719	0.125	1.81	1.24	< 0.00721
E1668C	PCB-5 (2,3-DiCB)	ng/L	< 0.00177	< 0.00489 UJ	< 0.00175	< 0.00191	< 0.00176	< 0.00176	< 0.00175	< 0.00176	0.00604 J	0.00349 J	< 0.00176
E1668C	PCB-6 (2,3'-DiCB)	ng/L	< 0.00907	< 0.00899	0.0811	< 0.00977	0.0717	< 0.00903	< 0.00897	0.0120 J	0.194	0.175	< 0.00900
E1668C	PCB-7 (2,4-DiCB)	ng/L	< 0.00900	< 0.00891	0.0173 J	< 0.00969	0.0139 J	< 0.00895	< 0.00889	< 0.00894	0.0941	0.0738	< 0.00892
E1668C	PCB-8 (2,4'-DiCB)	ng/L	< 0.0119	< 0.0117	0.0264 J	< 0.0128	0.0239 J	< 0.0118	< 0.0117	0.0171 J	0.161	0.0883	< 0.0118
E1668C	PCB-9 (2,5-DiCB)	ng/L	< 0.00238	< 0.00236	0.0161 J	< 0.00256	0.0134 J	< 0.00237	< 0.00235	< 0.00236	0.00919 J	0.0300 J	< 0.00236
E1668C	PCB-10 (2,6-DiCB)	ng/L	< 0.00282	< 0.00280	< 0.00279	< 0.00304	< 0.00280	< 0.00281	< 0.00279	< 0.00281	0.0106 J	0.0195 J	< 0.00280
E1668C	PCB-11 (3,3'-DiCB)	ng/L	< 0.140	< 0.139	< 0.139	< 0.151	< 0.139	< 0.140	< 0.139	< 0.140	< 0.139	< 0.141	< 0.139
E1668C	PCB-12/13 (3,4-DiCB and/or 3,4'-DiCB)	ng/L	< 0.00509	< 0.00504	< 0.00503	< 0.00548	< 0.00504	< 0.00506	< 0.00503	< 0.00505	0.0171 J	0.0108 J	< 0.00505
E1668C	PCB-14 (3,5-DiCB)	ng/L	< 0.00170	< 0.00168	< 0.00168	< 0.00183	< 0.00168	< 0.00169	< 0.00168	< 0.00169	< 0.00168	< 0.00170	< 0.00168
E1668C	PCB-15 (4,4'-DiCB)	ng/L	< 0.00584	< 0.00579	0.0124 J	< 0.00629	0.0150 J	< 0.00581	< 0.00577	0.0574	0.244	0.108	< 0.00579
E1668C	PCB-16 (2,2',3-TrCB)	ng/L	< 0.00596	< 0.00590	0.00908 J	< 0.00642	0.0113 J	< 0.00593	< 0.00589	0.0131 J	0.0798	0.0436	< 0.00591
E1668C	PCB-17 (2,2',4-TrCB)	ng/L	0.00985 J	< 0.00495	0.130	< 0.00537	0.154	< 0.00496	< 0.00493	0.151	1.88	1.08	0.0183 J
E1668C	PCB-18/30 (2,2',5-TrCB and/or 2,4,6-TrCB)	ng/L	< 0.0110	< 0.0109	0.0817	< 0.0119	0.0975	< 0.0110	< 0.0109	0.0602 J	0.323	0.275	0.0158 J
E1668C	PCB-19 (2,2',6-TrCB)	ng/L	< 0.00807	< 0.00799	0.100	< 0.00869	0.0925	< 0.00802	< 0.00797	0.152	1.56	0.935	< 0.00800
E1668C	PCB-20/28 (2,3,3'-TrCB and/or 2,4,4'-TrCB)	ng/L	0.0378 J	< 0.0174	0.146 J	< 0.0190	0.145 J	< 0.0175	< 0.0174	0.116 J	0.753	0.450	0.0603 J
E1668C	PCB-21/33 (2,3,4'-TrCB and/or 2,3',4'-TrCB)	ng/L	< 0.0127	< 0.0126	0.0428 J	< 0.0137	0.0496 J	< 0.0126	< 0.0126	< 0.0126	0.0369 J	0.0328 J	0.0141 J
E1668C	PCB-22 (2,3,4'-TrCB)	ng/L	< 0.00733	< 0.00726	0.00952 J	< 0.00789	0.0114 J	< 0.00729	< 0.00724	0.0118 J	0.0574 J	0.0295 J	< 0.00727
E1668C	PCB-23 (2,3,5'-TrCB)	ng/L	< 0.00154	< 0.00152	< 0.00152	< 0.00165	< 0.00152	< 0.00153	< 0.00152	< 0.00153	< 0.00152	< 0.00154	< 0.00152
E1668C	PCB-24 (2,3,6'-TrCB)	ng/L	< 0.00185	< 0.00183	< 0.00183	< 0.00199	< 0.00183	< 0.00184	< 0.00183	< 0.00184	< 0.00183	< 0.00185	< 0.00183
E1668C	PCB-25 (2,3',4'-TrCB)	ng/L	0.00576 J	< 0.00274	0.161	< 0.00298	0.140	< 0.00275	< 0.00273	0.0671	0.638	0.641	0.0177 J
E1668C	PCB-26/29 (2,3',5-TrCB and/or 2,4,5-TrCB)	ng/L	0.00809 J	< 0.00439	0.284	< 0.00477	0.260	< 0.00441	< 0.00438	0.130	1.24	1.22	0.0274 J
E1668C	PCB-27 (2,3',6'-TrCB)	ng/L	< 0.00195	< 0.00194	0.0218 J	< 0.00210	0.0223 J	< 0.00194	< 0.00193	0.0156 J	0.103	0.130	< 0.00194
E1668C	PCB-31 (2,4',5-TrCB)	ng/L	< 0.0170	< 0.0169	0.0668 J	< 0.0184	0.0742 J	< 0.0170	< 0.0168	0.0544 J	0.288	0.230	0.0206 J
E1668C	PCB-32 (2,4',6-TrCB)	ng/L	0.0212 J	< 0.00702	0.0699	< 0.00762	0.0626	< 0.00704	< 0.00700	0.0737	0.784	0.444	0.0274 J
E1668C	PCB-34 (2,3',5'-TrCB)	ng/L	< 0.00157	< 0.00156	0.0134 J	< 0.00169	0.0114 J	< 0.00156	< 0.00155	< 0.00156	0.0220 J	0.0264 J	0.00223 J
E1668C	PCB-35 (3,3',4'-TrCB)	ng/L	< 0.00310	< 0.00307	< 0.00306	< 0.00333	< 0.00307	< 0.00308	< 0.00306	< 0.00307	0.00479 J	0.00465 J	< 0.00307
E1668C	PCB-36 (3,3',5'-TrCB)	ng/L	< 0.00195	< 0.00194	< 0.00193	< 0.00210	< 0.00194	< 0.00194	< 0.00193	< 0.00194	< 0.00194	< 0.00196	< 0.00194
E1668C	PCB-37 (3,4',4'-TrCB)	ng/L	< 0.00408	< 0.00404	0.0115 J	< 0.00440	0.0164 J	< 0.00406	< 0.00403	< 0.00406	0.0443 J	0.0224 J	< 0.00405
E1668C	PCB-38 (3,4,5'-TrCB)	ng/L	< 0.00144	< 0.00142	< 0.00142	< 0.00155	< 0.00142	< 0.00143	< 0.00142	< 0.00143	< 0.00142	< 0.00144	< 0.00143
E1668C	PCB-39 (3,4',5'-TrCB)	ng/L	< 0.00159	< 0.00158	< 0.00157	< 0.00171	< 0.00158	< 0.00158	< 0.00157	< 0.00158	< 0.00158	< 0.00159	< 0.00158
E1668C	PCB-40/41/71 (2,2',3,3'-TeCB and/or 2,2',3,3'-TeCB)	ng/L	0.0355 J	< 0.00778	0.260	< 0.00846	0.306	< 0.00781	< 0.00776	0.188	1.41	0.913	0.0728 J
E1668C	PCB-42 (2,2',3,4'-TeCB)	ng/L	0.0234 J	< 0.00422	0.158	< 0.00458	0.206	< 0.00423	< 0.00421	0.133	0.748	0.509	0.0514
E1668C	PCB-43/73 (2,2',3,5'-TeCB and/or 2,3',5'-TeCB)	ng/L	< 0.00379	< 0.00376	0.0337 J	< 0.00408	0.0337 J	< 0.00377	< 0.00375	0.0240 J	0.237	0.172	0.00793 J
E1668C	PCB-44/47/65 (2,2',3,5'-TeCB and/or 2,2',3,5'-TeCB)	ng/L	0.117	< 0.0179	0.769	< 0.0195	0.917	< 0.0180	< 0.0179	0.792	4.27	2.73	0.240
E1668C	PCB-45/51 (2,2',3,6'-TeCB and/or 2,2',4,6'-TeCB)	ng/L	0.0314 J	< 0.00552	0.131	< 0.00600	0.152	< 0.00554	< 0.00551	0.146	1.25	0.725	0.0496 J
E1668C	PCB-46 (2,2',3,6'-TeCB)	ng/L	0.0137 J	< 0.00219	0.0634	< 0.00237	0.0796	< 0.00219	< 0.00218	0.0536	0.337	0.224	0.0243 J
E1668C	PCB-48 (2,2',4,5'-TeCB)	ng/L	< 0.00282	< 0.00280	0.00660 J	< 0.00304	0.00975 J	< 0.00281	< 0.00279	0.0131 J	0.0395	0.0166 J	< 0.00280
E1668C	PCB-49/69 (2,2',4,5'-TeCB and/or 2,3',4,5'-TeCB)	ng/L	0.111	0.0102 J	1.10	< 0.00704	1.34	< 0.00650	< 0.00646	0.842	4.71	3.84	0.264
E1668C	PCB-50/53 (2,2',4,6'-TeCB and/or 2,2',5,5'-TeCB)	ng/L	0.0488 J	< 0.00364	0.249	< 0.00396	0.288	< 0.00366	< 0.00363	0.214	1.32	0.982	0.0807
E1668C	PCB-52 (2,2',5,5'-TeCB)	ng/L	0.0942 J	< 0.0159	1.41	< 0.0173	1.88	< 0.0160	< 0.0159	1.57	6.03	5.10	0.277
E1668C	PCB-54 (2,2',6,6'-TeCB)	ng/L	0.00256 J	< 0.00154	0.0130 J	< 0.00168	0.0146 J	< 0.00155	< 0.00154	0.0162 J	0.144	0.0849	0.00445 J
E1668C	PCB-55 (2,3,3',4'-TeCB)	ng/L	< 0.00209	< 0.00207	< 0.00207	< 0.00225	< 0.00207	< 0.00208	< 0.00206	< 0.00208	< 0.00207	< 0.00209	< 0.00207
E1668C	PCB-56 (2,3,3',4'-TeCB)	ng/L	< 0.00981	< 0.00972	0.0386	< 0.0106	0.0568	< 0.00976	< 0.00969	0.0377 J	0.139	0.0926	0.0148 J
E1668C	PCB-57 (2,3,3',5'-TeCB)	ng/L	< 0.00145	< 0.00144	0.0399	< 0.00157	0.0356 J	< 0.00145	< 0.00144	0.0106 J	0.158	0.173	0.00426 J
E1668C	PCB-58 (2,3,3',5'-TeCB)	ng/L	< 0.00184	< 0.00183	0.00777 J	< 0.00199	0.00949 J	< 0.00183	< 0.00182	0.00370 J	0.0373 J	0.0216 J	0.00280 J
E1668C	PCB-59/62/75 (2,3,3',6'-TeCB and/or 2,3,3',6'-TeCB)	ng/L	0.00423 J	< 0.00399	0.0418 J	< 0.00433	0.0494 J	< 0.00400	< 0.00398	0.0287 J	0.216	0.163	0.0104 J
E1668C	PCB-60 (2,3,4',4'-TeCB)	ng/L	< 0.00333	< 0.00330	0.00456 J	< 0.00358	0.00913 J	< 0.00331	< 0.00329	0.00702 J	0.0150 J	0.0113 J	< 0.00330
E1668C	PCB-61/70/74/76 (2,3,4,5'-TeCB and/or 2,3,4,5'-TeCB)	ng/L	0.0363 J	< 0.0309	0.270	< 0.0335	0.411	< 0.0310	< 0.0308	0.340	1.44	0.865	0.0969 J
E1668C	PCB-63 (2,3,4',5'-TeCB)	ng/L	0.00407 J	< 0.00168	0.0264 J	< 0.00182	0.0290 J	< 0.00168	< 0.00167	0.0147 J	0.142	0.0958	0.00879 J
E1668C	PCB-64												

Table X. Surface Water Sampling Results
 Hayton Area Remediation Project – Long-Term Natural Recovery Monitoring
 BRTS No. 02-08-587669

Sample ID Type	NR-SW-BKG1 N	NR-SW-BKG2 N	NR-SW-DS1 N	NR-SW-DS2 ** N	NR-SW-DS2 ** FD	NR-SW-EB EB	NR-SW-FB FB	NR-SW-OU1 N	NR-SW-OU2 N	NR-SW-OU3 N	NR-SW-OU4 N		
Sample Date	05/16/2023	05/16/2023	05/16/2023	05/16/2023	05/16/2023	05/16/2023	05/16/2023	05/16/2023	05/16/2023	05/16/2023	05/16/2023		
SYS_SAMPLE_CODE	NR-SW-BKG1-202305	NR-SW-BKG2-202305	NR-SW-DS1-202305	NR-SW-DS2-202305	NR-SW-DUP1-202305	NR-SW-EB-202305	NR-SW-FB-202305	NR-SW-OU1-202305	NR-SW-OU2-202305	NR-SW-OU3-202305	NR-SW-OU4-202305		
Method	Parameter	Units											
E1668C	PCB-82 (2,2',3,3',4-PeCB)	ng/L	0.00884 J	< 0.00247	0.0472	< 0.00269	0.110	< 0.00248	< 0.00247	0.0862	0.184	0.126	0.0214 J
E1668C	PCB-83 (2,2',3,3',5-PeCB)	ng/L	0.00668 J	< 0.00230	0.0910	< 0.00250	0.144	< 0.00231	< 0.00229	0.0986	0.434	0.345	0.0258 J
E1668C	PCB-84 (2,2',3,3',6-PeCB)	ng/L	0.0318 J	< 0.0128	0.252	< 0.0139	0.489	< 0.0128	< 0.0127	0.309	1.17	0.864	0.0812
E1668C	PCB-85/116/117 (2,2',3,4,4'-PeCB and/or 2,2',3,4,4'-HxCB)	ng/L	0.0237 J	< 0.00500	0.136	< 0.00544	0.319	< 0.00502	< 0.00499	0.284	0.645	0.446	0.0547 J
E1668C	PCB-86/87/97/108/119/125 (2,2',3,4,5-PeCB and/or 2,2',3,4,5'-HxCB)	ng/L	0.0753 J	< 0.0146	0.504	< 0.0159	1.03	< 0.0147	< 0.0146	0.829	2.45	1.57	0.192 J
E1668C	PCB-88/91 (2,2',3,4,6-PeCB and/or 2,2',3,4,6'-HxCB)	ng/L	0.0289 J	< 0.00475	0.255	< 0.00517	0.382	< 0.00477	< 0.00474	0.270	1.16	0.832	0.0677 J
E1668C	PCB-89 (2,2',3,4,6'-PeCB)	ng/L	< 0.00304	< 0.00301	0.00622 J	< 0.00327	0.103 J	< 0.00302	< 0.00300	0.00417 J	0.0216 J	0.0127 J	< 0.00301
E1668C	PCB-90/101/113 (2,2',3,4',5-PeCB and/or 2,2',3,4',5'-HxCB)	ng/L	0.124	0.0130 J	0.912	< 0.0125	1.89	< 0.0115	< 0.0115	1.60	4.55	2.85	0.328
E1668C	PCB-92 (2,2',3,5,5'-PeCB)	ng/L	0.0378 J	0.00479 J	0.431	< 0.00410	0.679	< 0.00379	< 0.00377	0.430	1.89	1.52	0.0989
E1668C	PCB-93/98/100/102 (2,2',3,5,6-PeCB and/or 2,2',3,5,6'-HxCB)	ng/L	0.00904 J	< 0.00544	0.0959 J	< 0.00592	0.124 J	< 0.00547	< 0.00543	0.0641 J	0.444	0.315	0.0213 J
E1668C	PCB-94 (2,2',3,5,6'-PeCB)	ng/L	0.00302 J	< 0.00182	0.0306 J	< 0.00198	0.0353 J	< 0.00183	< 0.00181	0.0219 J	0.206	0.158	0.00509 J
E1668C	PCB-95 (2,2',3,5',6-PeCB)	ng/L	0.101 J	< 0.00838	0.844	< 0.00910	1.61	< 0.00841	< 0.00835	1.33	3.99	2.86	0.255
E1668C	PCB-96 (2,2',3,6,6'-PeCB)	ng/L	< 0.00306	< 0.00303	0.0125 J	< 0.00329	0.0188 J	< 0.00304	< 0.00302	0.0108 J	0.0758	0.0529	0.00362 J
E1668C	PCB-99 (2,2',4,4',5-PeCB)	ng/L	0.0663	0.00682 J	0.473	< 0.00619	0.959	< 0.00572	< 0.00568	1.06	2.19	1.31	0.164
E1668C	PCB-103 (2,2',4,5',6-PeCB)	ng/L	0.00253 J	< 0.00189	0.0351 J	< 0.00205	0.0423	< 0.00189	< 0.00188	0.0226 J	0.147	0.122	0.00837 J
E1668C	PCB-104 (2,2',4,6,6'-PeCB)	ng/L	< 0.00148	< 0.00147	< 0.00147	< 0.00160	< 0.00147	< 0.00148	< 0.00147	< 0.00147	0.00731 J	0.00532 J	< 0.00147
E1668C	PCB-105 (2,3,3',4',4'-PeCB)	ng/L	0.0307 J	< 0.00546	0.136	< 0.00594	0.320	< 0.00548	< 0.00545	0.159	0.765	0.472	0.0623
E1668C	PCB-106 (2,3,3',4,5-PeCB)	ng/L	< 0.00173	< 0.00171	< 0.00171	< 0.00186	< 0.00171	< 0.00172	< 0.00171	< 0.00172	< 0.00171	< 0.00173	< 0.00171
E1668C	PCB-107/124 (2,3,3',4',5-PeCB and/or 2,3,3',4',5'-HxCB)	ng/L	0.00308 J	< 0.00253	0.0193 J	< 0.00275	0.0369 J	< 0.00254	< 0.00252	0.0260 J	0.107	0.0611 J	0.00770 J
E1668C	PCB-109 (2,3,3',4,6-PeCB)	ng/L	0.00902 J	< 0.00192	0.0728	< 0.00208	0.112	< 0.00192	< 0.00191	0.0553	0.375	0.245	0.0250 J
E1668C	PCB-110/115 (2,3,3',4',6-PeCB and/or 2,3,3',4',6'-HxCB)	ng/L	0.161	0.0138 J	1.37	< 0.0135	2.64	< 0.0125	< 0.0124	1.65	6.01	4.27	0.422
E1668C	PCB-111 (2,3,3',5,5'-PeCB)	ng/L	< 0.00199	< 0.00197	0.00362 J	< 0.00215	0.00489 J	< 0.00198	< 0.00197	< 0.00198	0.0172 J	0.0146 J	< 0.00198
E1668C	PCB-112 (2,3,3',5,6-PeCB)	ng/L	< 0.00172	< 0.00170	< 0.00170	< 0.00185	< 0.00171	< 0.00170	< 0.00170	< 0.00170	< 0.00170	< 0.00172	< 0.00171
E1668C	PCB-114 (2,3,4,4',5-PeCB)	ng/L	< 0.00222	< 0.00220	0.00366 J	< 0.00240	0.00872 J	< 0.00221	< 0.00220	0.00575 J	0.0280 J	0.0122 J	< 0.00221
E1668C	PCB-118 (2,3',4,4',5-PeCB)	ng/L	0.0871	0.0113 J	0.534	< 0.00937	1.04	< 0.00866	< 0.00860	0.510	2.85	1.58	0.203
E1668C	PCB-120 (2,3',4,5,5'-PeCB)	ng/L	< 0.00166	< 0.00164	0.00901 J	< 0.00178	0.0148 J	< 0.00165	< 0.00164	0.00442 J	0.0420	0.0306 J	0.00265 J
E1668C	PCB-121 (2,3',4,5',6-PeCB)	ng/L	< 0.00127	< 0.00125	< 0.00125	< 0.00136	< 0.00125	< 0.00126	< 0.00125	< 0.00126	0.0103 J	0.00721 J	< 0.00125
E1668C	PCB-122 (2,3,3',4',5'-PeCB)	ng/L	< 0.00189	< 0.00187	0.00642 J	< 0.00204	0.00952 J	< 0.00188	< 0.00187	0.00652 J	0.0233 J	0.0152 J	< 0.00187
E1668C	PCB-123 (2,3,4,4',5'-PeCB)	ng/L	0.00277 J	< 0.00213	0.00801 J	< 0.00231	0.0166 J	< 0.00214	< 0.00212	0.0116 J	0.0373 J	0.0236 J	0.00303 J
E1668C	PCB-126 (3,3',4,4',5-PeCB)	ng/L	< 0.00217	< 0.00215	0.00259 J	< 0.00233	0.00344 J	< 0.00216	< 0.00214	< 0.00215	0.00824 J	0.00696 J	< 0.00215
E1668C	PCB-127 (3,3',4,5,5'-PeCB)	ng/L	< 0.00130	< 0.00129	< 0.00128	< 0.00140	< 0.00129	< 0.00129	< 0.00129	< 0.00129	< 0.00129	< 0.00130	< 0.00129
E1668C	PCB-128/166 (2,2',3,3',4,4'-HxCB and/or 2,2',3,3',4,4'-HxCB)	ng/L	0.0208 J	< 0.00240	0.122	< 0.00456	0.255	< 0.00421	< 0.00419	0.117	0.546	0.353	0.0482 J
E1668C	PCB-129/138/163 (2,2',3,3',4,5-HxCB and/or 2,2',3,3',4,5'-HxCB)	ng/L	0.111 J	< 0.0105	0.638	< 0.0115	1.35	< 0.0106	< 0.0105	0.732	2.99	1.97	0.230
E1668C	PCB-130 (2,2',3,3',4,5'-HxCB)	ng/L	0.00948 J	< 0.00211	0.0605	< 0.00229	0.114	< 0.00212	< 0.00210	0.0552	0.263	0.186	0.0190 J
E1668C	PCB-131 (2,2',3,3',4,6-HxCB)	ng/L	< 0.00275	< 0.00272	0.0101 J	< 0.00296	0.0222 J	< 0.00273	< 0.00271	0.0146 J	0.0461	0.0240 J	0.00415 J
E1668C	PCB-132 (2,2',3,3',4,6'-HxCB)	ng/L	0.0363 J	< 0.00397	0.282	< 0.00431	0.533	< 0.00398	< 0.00396	0.254	1.33	0.912	0.0851
E1668C	PCB-133 (2,2',3,3',5,5'-HxCB)	ng/L	< 0.00259	< 0.00257	0.0253 J	< 0.00279	0.0352 J	< 0.00258	< 0.00256	0.0161 J	0.103	0.0813	0.00437 J
E1668C	PCB-134/143 (2,2',3,3',5,6-HxCB and/or 2,2',3,3',5,6'-HxCB)	ng/L	0.00796 J	< 0.00385	0.0612 J	< 0.00419	0.118	< 0.00387	< 0.00384	0.0582 J	0.285	0.205	0.0197 J
E1668C	PCB-135/151 (2,2',3,3',6-PeCB and/or 2,2',3,3',6'-HxCB)	ng/L	0.0329 J	< 0.00500	0.311	< 0.00544	0.693	< 0.00502	< 0.00499	0.342	1.40	1.02	0.0868
E1668C	PCB-136 (2,2',3,3',6'-HxCB)	ng/L	0.0130 J	< 0.00276	0.125	< 0.00300	0.247	< 0.00277	< 0.00275	0.117	0.565	0.401	0.0356 J
E1668C	PCB-137 (2,2',3,3',4,5'-HxCB)	ng/L	0.00715 J	< 0.00247	0.0286 J	< 0.00269	0.0724	< 0.00248	< 0.00247	0.0478	0.148	0.0997	0.0117 J
E1668C	PCB-139/140 (2,2',3,4,4',6-HxCB and/or 2,2',3,4,4',6'-HxCB)	ng/L	< 0.00428	< 0.00424	0.0166 J	< 0.00460	0.0364 J	< 0.00425	< 0.00422	0.0263 J	0.0844	0.0578 J	0.00563 J
E1668C	PCB-141 (2,2',3,4,5,5'-HxCB)	ng/L	0.0157 J	< 0.00238	0.0744	< 0.00258	0.166	< 0.00239	< 0.00237	0.116	0.382	0.226	0.0319 J
E1668C	PCB-142 (2,2',3,4,5,6-HxCB)	ng/L	< 0.00188	< 0.00186	< 0.00186	< 0.00202	< 0.00186	< 0.00187	< 0.00185	< 0.00186	< 0.00186	< 0.00188	< 0.00186
E1668C	PCB-144 (2,2',3,4,5',6-HxCB)	ng/L	0.00297 J	< 0.00201	0.0233 J	< 0.00219	0.0628	< 0.00202	< 0.00201	0.0298 J	0.104	0.0565	0.0103 J
E1668C	PCB-145 (2,2',3,4,6'-HxCB)	ng/L	< 0.00195	< 0.00194	< 0.00193	< 0.00210	< 0.00194	< 0.00194	< 0.00193	< 0.00194	< 0.00194	< 0.00196	< 0.00194
E1668C	PCB-146 (2,2',3,4',5,5'-HxCB)	ng/L	0.0135 J	< 0.00245	0.120	< 0.00267	0.215	< 0.00246	< 0.00245	0.114	0.531	0.368	0.0331 J
E1668C	PCB-147/149 (2,2',3,4',5,6-HxCB and/or 2,2',3,4',5,6'-HxCB)	ng/L	0.0795	< 0.00866	0.657	< 0.00941	1.16	< 0.00870	< 0.00864	0.650	2.92	2.06	0.183
E1668C	PCB-148 (2,2',3,4',5,6'-HxCB)	ng/L	< 0.00228	< 0.00226	0.00389 J	< 0.00246	0.00561 J	< 0.00227	< 0.00226	0.00230 J	0.0235 J	0.0176 J	< 0.00226
E1668C	PCB-150 (2,2',3,4',6'-HxCB)	ng/L	< 0.00127	< 0.00126	0.00407 J	< 0.00136	0.00502 J	< 0.00126	< 0.00125	0.00249 J	0.0200 J	0.0146 J	< 0.00126
E1668C	PCB-152 (2,2',3,5,6'-HxCB)	ng/L	< 0.00207	< 0.00205	0.00281 J	< 0.00223	0.00322 J	< 0.00206	< 0.00205	< 0.00206	0.0135 J	0.00960 J	< 0.00205
E1668C	PCB-153/168 (2,2',4,4',5,5'-HxCB and/or 2,2',4,4',5,5'-HxCB)	ng/L	0.0729 J	0.00967 J	0.469	< 0.00808	1.00	< 0.00747	< 0.00742	0.638	2.25	1.35	0.175
E1668C	PCB-154 (2,2',4,4',5,6'-HxCB)	ng/L	< 0.00171	< 0.00169	0.0226 J	< 0.00184	0.0390	< 0.00170	< 0.00169	0.0175 J	0.0944	0.0743	0.00392 J
E1668C	PCB-155 (2,2',4,4',6'-HxCB)	ng/L	< 0.00150	< 0.00148	< 0.00148	< 0.00161	< 0.00148	< 0.00149	< 0.00148	< 0.00148	< 0.00148	< 0.00150	< 0.00148
E1668C	PCB-156/157 (2,3,3',4,4',5-HxCB and/or 2,3,3',4,4',5'-HxCB)	ng/L	0.0156 J	< 0.00429	0.0824	< 0.00467	0.171	< 0.00431	< 0.00428	0.0680 J	0.413	0.263	0.0321 J
E1668C	PCB-158 (2,3,3',4,4',6-HxCB)	ng/L	0.0113 J	< 0.00249	0.0533	< 0.00271	0.123	< 0.00250	< 0.00249	0.0585	0.254	0.165	0.0223 J
E1668C	PCB-159 (2,3,3',4,5,5'-HxCB)	ng/L	< 0.00273	< 0.00270	< 0.00270	< 0.00294	< 0.00270	< 0.00271	< 0.00270	< 0.00271	0.0107 J	0.00890 J	< 0.00271
E1668C	PCB-160 (2,3,3',4,5,6-HxCB)	ng/L	< 0.00252	< 0.00249	< 0.00249	< 0.00271	< 0.00249	< 0.00250	< 0.00249	< 0.00250	< 0.00249	< 0.00252	< 0.00249
E1668C	PCB-161 (2,3,3',4,5',6-HxCB)	ng/L	< 0.00181	< 0.00180	< 0.00179	< 0.00195	< 0.00180	< 0.00179	< 0.00178	< 0.00180	< 0.00180	< 0.00182	< 0.00180
E1668C	PCB-162 (2,3,3',4',5,5'-HxCB)	ng/L	< 0.00224										

Table X. Surface Water Sampling Results
 Hayton Area Remediation Project – Long-Term Natural Recovery Monitoring
 BRTS No. 02-08-587669

Sample ID Type	NR-SW-BKG1 N	NR-SW-BKG2 N	NR-SW-DS1 N	NR-SW-DS2 ** N	NR-SW-DS2 ** FD	NR-SW-EB EB	NR-SW-FB FB	NR-SW-OU1 N	NR-SW-OU2 N	NR-SW-OU3 N	NR-SW-OU4 N		
Sample Date	05/16/2023	05/16/2023	05/16/2023	05/16/2023	05/16/2023	05/16/2023	05/16/2023	05/16/2023	05/16/2023	05/16/2023	05/16/2023		
SYS_SAMPLE_CODE	NR-SW-BKG1-202305	NR-SW-BKG2-202305	NR-SW-DS1-202305	NR-SW-DS2-202305	NR-SW-DUP1-202305	NR-SW-EB-202305	NR-SW-FB-202305	NR-SW-OU1-202305	NR-SW-OU2-202305	NR-SW-OU3-202305	NR-SW-OU4-202305		
Method	Parameter	Units											
E1668C	PCB-172 (2,2',3,3',4,5,5'-HpCB)	ng/L	< 0.0137	< 0.0136	< 0.0136	< 0.0148	0.0216 J	< 0.0136	< 0.0136	0.0670	0.0473	< 0.0136	
E1668C	PCB-174 (2,2',3,3',4,5,6'-HpCB)	ng/L	0.00958 J	< 0.00309	0.0634	< 0.00335	0.113	< 0.00310	< 0.00308	0.355	0.227	0.0197 J	
E1668C	PCB-175 (2,2',3,3',4,5,6'-HpCB)	ng/L	< 0.00148	< 0.00146	0.00236 J	< 0.00159	0.00701 J	< 0.00147	< 0.00146	0.00229 J	0.0161 J	0.0116 J	< 0.00146
E1668C	PCB-176 (2,2',3,3',4,6,6'-HpCB)	ng/L	< 0.00219	< 0.00217	0.0116 J	< 0.00235	0.0205 J	< 0.00217	< 0.00216	0.00598 J	0.0563	0.0392	< 0.00217
E1668C	PCB-177 (2,2',3,3',4,5,6'-HpCB)	ng/L	0.00544 J	< 0.00324	0.0540	< 0.00352	0.0861	< 0.00325	< 0.00323	0.0385	0.273	0.194	0.00976 J
E1668C	PCB-178 (2,2',3,3',5,5',6'-HpCB)	ng/L	< 0.00221	< 0.00219	0.0214 J	< 0.00237	0.0391	< 0.00219	< 0.00218	0.0181 J	0.121	0.0913	0.00474 J
E1668C	PCB-179 (2,2',3,3',5,6,6'-HpCB)	ng/L	0.00398 J	< 0.00234	0.0425	< 0.00254	0.0779	< 0.00235	< 0.00233	0.0344 J	0.209	0.153	0.00902 J
E1668C	PCB-180/193 (2,2',3,4,4',5,5'-HpCB and	ng/L	0.0175 J	< 0.00554	0.124	< 0.00602	0.188	< 0.00556	< 0.00552	0.0899	0.669	0.423	0.0344 J
E1668C	PCB-181 (2,2',3,4,4',5,6'-HpCB)	ng/L	< 0.00267	< 0.00265	< 0.00264	< 0.00287	0.00403 J	< 0.00266	< 0.00264	< 0.00265	0.0107 J	0.00509 J	< 0.00265
E1668C	PCB-182 (2,2',3,4,4',5,6'-HpCB)	ng/L	< 0.00252	< 0.00249	< 0.00249	< 0.00271	< 0.00249	< 0.00250	< 0.00249	< 0.00250	0.00370 J	0.00306 J	< 0.00249
E1668C	PCB-183/185 (2,2',3,4,4',5',6'-HpCB and	ng/L	0.00567 J	< 0.00548	0.0460 J	< 0.00596	0.0754 J	< 0.00550	< 0.00547	0.0429 J	0.217	0.144	0.0116 J
E1668C	PCB-184 (2,2',3,4,4',6,6'-HpCB)	ng/L	< 0.00203	< 0.00201	< 0.00201	< 0.00219	< 0.00201	< 0.00202	< 0.00201	< 0.00202	< 0.00201	< 0.00203	< 0.00201
E1668C	PCB-186 (2,2',3,4,5,6,6'-HpCB)	ng/L	< 0.00153	< 0.00151	< 0.00151	< 0.00165	< 0.00151	< 0.00152	< 0.00151	< 0.00152	< 0.00151	< 0.00153	< 0.00152
E1668C	PCB-187 (2,2',3,4,5,5',6'-HpCB)	ng/L	0.00883 J	< 0.00316	0.0922	< 0.00344	0.178	< 0.00318	< 0.00315	0.0878	0.504	0.349	0.0205 J
E1668C	PCB-188 (2,2',3,4,5,6,6'-HpCB)	ng/L	< 0.00242	< 0.00240	< 0.00239	< 0.00260	< 0.00240	< 0.00241	< 0.00239	< 0.00240	< 0.00240	< 0.00242	< 0.00240
E1668C	PCB-189 (2,3,3',4,4',5,5'-HpCB)	ng/L	< 0.00211	< 0.00209	0.00304 J	< 0.00227	0.00912 J	< 0.00210	< 0.00208	< 0.00209	0.0165 J	0.0109 J	< 0.00209
E1668C	PCB-190 (2,3,3',4,4',5,6'-HpCB)	ng/L	< 0.00248	< 0.00245	0.0152 J	< 0.00267	0.0252 J	< 0.00246	< 0.00245	0.0114 J	0.0833	0.0539	0.00356 J
E1668C	PCB-191 (2,3,3',4,4',5,6'-HpCB)	ng/L	< 0.00213	< 0.00211	0.00262 J	< 0.00229	0.00428 J	< 0.00212	< 0.00210	< 0.00211	0.0124 J	0.00974 J	< 0.00211
E1668C	PCB-192 (2,3,3',4,5,5',6'-HpCB)	ng/L	< 0.00242	< 0.00240	< 0.00239	< 0.00260	< 0.00240	< 0.00241	< 0.00239	< 0.00240	< 0.00240	< 0.00242	< 0.00240
E1668C	PCB-194 (2,2',3,3',4,4',5,5'-OxCB)	ng/L	< 0.00183	< 0.00181	0.0225 J	< 0.00197	0.0333 J	< 0.00182	< 0.00180	0.0163 J	0.140	0.0966	0.00359 J
E1668C	PCB-195 (2,2',3,3',4,4',5,6'-OxCB)	ng/L	< 0.00168	< 0.00167	0.00956 J	< 0.00181	0.0142 J	< 0.00167	< 0.00166	0.00447 J	0.0643	0.0410	0.00271 J
E1668C	PCB-196 (2,2',3,3',4,4',5,6'-OxCB)	ng/L	< 0.00170	< 0.00169	0.0119 J	< 0.00183	0.0185 J	< 0.00169	< 0.00168	0.00871 J	0.0697	0.0510	0.00276 J
E1668C	PCB-197/200 (2,2',3,3',4,4',6,6'-OxCB and	ng/L	< 0.00460	< 0.00456	< 0.00455	< 0.00496	0.00676 J	< 0.00458	< 0.00455	< 0.00457	0.0301 J	0.0183 J	< 0.00457
E1668C	PCB-198/199 (2,2',3,3',4,5,5',6'-OxCB and	ng/L	0.00315 J	< 0.00274	0.0312 J	< 0.00298	0.0502 J	< 0.00275	< 0.00273	0.0221 J	0.190	0.135	0.00638 J
E1668C	PCB-201 (2,2',3,3',4,4',5,6,6'-OxCB)	ng/L	< 0.00141	< 0.00140	0.00307 J	< 0.00152	0.00391 J	< 0.00140	< 0.00139	0.00208 J	0.0222 J	0.0113 J	< 0.00140
E1668C	PCB-202 (2,2',3,3',5,5',6,6'-OxCB)	ng/L	< 0.00226	< 0.00224	0.00582 J	< 0.00244	0.00788 J	< 0.00225	< 0.00224	0.00440 J	0.0350 J	0.0260 J	< 0.00225
E1668C	PCB-203 (2,2',3,4,4',5,5',6'-OxCB)	ng/L	0.00196 J	< 0.00176	0.0117 J	< 0.00191	0.0232 J	< 0.00176	< 0.00175	0.0106 J	0.0965	0.0699	0.00326 J
E1668C	PCB-204 (2,2',3,4,4',5,6,6'-OxCB)	ng/L	< 0.00164	< 0.00163	< 0.00163	< 0.00177	< 0.00163	< 0.00164	< 0.00162	< 0.00163	< 0.00163	< 0.00165	< 0.00163
E1668C	PCB-205 (2,3,3',4,4',5,5',6'-OxCB)	ng/L	< 0.00193	< 0.00192	< 0.00191	< 0.00208	0.00229 J	< 0.00192	< 0.00191	< 0.00192	0.00845 J	0.00525 J	< 0.00192
E1668C	PCB-206 (2,2',3,3',4,4',5,5',6'-NoCB)	ng/L	< 0.00375	< 0.00372	0.00682 J	< 0.00404	0.0117 J	< 0.00373	< 0.00371	0.00567 J	0.0396	0.0302 J	< 0.00372
E1668C	PCB-207 (2,2',3,3',4,4',5,6,6'-NoCB)	ng/L	< 0.00224	< 0.00222	< 0.00222	< 0.00242	< 0.00222	< 0.00223	< 0.00222	< 0.00223	0.00673 J	0.00517 J	< 0.00223
E1668C	PCB-208 (2,2',3,3',4,4',5,5',6,6'-NoCB)	ng/L	< 0.00219	< 0.00217	< 0.00216	< 0.00235	0.00220 J	< 0.00217	< 0.00216	< 0.00217	0.00804 J	0.00559 J	< 0.00217
E1668C	PCB-209 (DecB) (Decachlorobiphenyl)	ng/L	< 0.0168	< 0.0167	< 0.0166	< 0.0181	< 0.0167	< 0.0167	< 0.0166	< 0.0167	< 0.0167	< 0.0168	< 0.0167

Table X. Surface Water Sampling Results
 Hayton Area Remediation Project – Long-Term Natural Recovery Monitoring
 BRTS No. 02-08-587669

Sample ID	NR-SW-BKG1	NR-SW-BKG2	NR-SW-DS1	NR-SW-DS2 **	NR-SW-DS2 **	NR-SW-EB	NR-SW-FB	NR-SW-OU1	NR-SW-OU2	NR-SW-OU3	NR-SW-OU4		
Type	N	N	N	N	N	EB	FB	N	N	N	N		
Sample Date	05/16/2023	05/16/2023	05/16/2023	05/16/2023	05/16/2023	05/16/2023	05/16/2023	05/16/2023	05/16/2023	05/16/2023	05/16/2023		
SYS_SAMPLE_CODE	NR-SW-BKG1-202305	NR-SW-BKG2-202305	NR-SW-DS1-202305	NR-SW-DS2-202305	NR-SW-DUP1-202305	NR-SW-EB-202305	NR-SW-FB-202305	NR-SW-OU1-202305	NR-SW-OU2-202305	NR-SW-OU3-202305	NR-SW-OU4-202305		
Method	Parameter	Units											
E1668C	Total Monochloro Biphenyls	ng/L	< 0.00540	< 0.00535	< 0.00534	< 0.00581	0.0290 J	< 0.00537	< 0.00533	0.0110 J	0.290	0.225	< 0.00535
E1668C	Total Dichloro Biphenyls	ng/L	< 0.140	< 0.139	0.307 J	< 0.151	0.286 J	< 0.140	< 0.139	0.211 J	2.52 J	1.74 J	< 0.139
E1668C	Total Trichloro Biphenyls	ng/L	0.0729 J	< 0.0174	1.12 J	< 0.0190	1.15 J	< 0.0175	< 0.0174	0.845 J	7.81 J	5.57 J	0.202 J
E1668C	Total Tetrachloro Biphenyls	ng/L	0.557 J	0.0102 J	5.06 J	< 0.0335	6.45 J	< 0.0310	< 0.0308	4.82 J	24.7 J	18.1 J	1.33 J
E1668C	Total Pentachloro Biphenyls	ng/L	0.799 J	0.0450 J	6.29 J	< 0.0159	12.0 J	< 0.0147	< 0.0146	8.84 J	29.8 J	20.1 J	2.04 J
E1668C	Total Hexachloro Biphenyls	ng/L	0.453 J	0.00967 J	3.27 J	< 0.0115	6.57 J	< 0.0106	< 0.0105	3.54 J	15.2 J	10.1 J	1.04 J
E1668C	Total Heptachloro Biphenyls	ng/L	0.0510 J	< 0.0136	0.580 J	< 0.0148	1.01 J	< 0.0136	< 0.0136	0.451 J	3.09 J	2.09 J	0.0999 J
E1668C	Total Octachloro Biphenyls	ng/L	0.00510 J	< 0.00456	0.0809 J	< 0.00496	0.139 J	< 0.00458	< 0.00455	0.0514 J	0.655 J	0.425 J	0.0118 J
E1668C	Total Nonachloro Biphenyls	ng/L	< 0.00375	< 0.00372	0.00682 J	< 0.00404	0.0117 J	< 0.00373	< 0.00371	0.00567 J	0.0463 J	0.00517 J	< 0.00372
E1668C	Polychlorinated biphenyls (Total PCBs)	ng/L	1.94 J	0.0648 J	16.7 J	< 0.151	27.7 J	< 0.140	< 0.139	18.8 J	84.1 J	58.4 J	4.72 J

Footnotes:

- = Not analyzed
- J = Estimated value
- UJ = Estimated non-detect
- ** = Potential sample labeling/switching issue