



Pace Analytical Services, Inc.  
1700 Elm Street - Suite 200  
Minneapolis, MN 55414

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## Method 8290 Analysis Results

Client - ATC

|                        |                         |           |                  |
|------------------------|-------------------------|-----------|------------------|
| Client's Sample ID     | ATC-0214-234M-DX1       |           |                  |
| Lab Sample ID          | 103331781               |           |                  |
| Filename               | U20302A_07              |           |                  |
| Injected By            | BAL                     |           |                  |
| Total Amount Extracted | 1 m2                    | Matrix    | WIPE             |
| % Moisture             | NA                      | Dilution  | NA               |
| Dry Weight Extracted   | NA                      | Collected | 02/14/2002       |
| ICAL Date              | 02/26/2002              | Received  | 02/18/2002       |
| CCal Filename(s)       | U20302A_01 & U20302A_17 | Extracted | 02/25/2002       |
| Method Blank ID        | BLANK-1486              | Analyzed  | 03/02/2002 21:26 |

| Native Isomers      | Conc<br>ng/m2 | EMPC<br>ng/m2 | LRL<br>ng/m2 |   | Internal Standards         | ng's<br>Added | Percent<br>Recovery |
|---------------------|---------------|---------------|--------------|---|----------------------------|---------------|---------------------|
| 2,3,7,8-TCDF        | 0.0035        | ----          | 0.00200      | J | 2,3,7,8-TCDF-13C           | 2.00          | 89                  |
| Total TCDF          | 0.0410        | ----          | 0.00200      |   | 2,3,7,8-TCDD-13C           | 2.00          | 78                  |
|                     |               |               |              |   | 1,2,3,7,8-PeCDF-13C        | 2.00          | 90                  |
| 2,3,7,8-TCDD        | ND            | ----          | 0.00240      | A | 2,3,4,7,8-PeCDF-13C        | 2.00          | 85                  |
| Total TCDD          | 0.0250        | ----          | 0.00200      |   | 1,2,3,7,8-PeCDD-13C        | 2.00          | 80                  |
|                     |               |               |              |   | 1,2,3,4,7,8-HxCDF-13C      | 2.00          | 95                  |
| 1,2,3,7,8-PeCDF     | ND            | ----          | 0.01000      |   | 1,2,3,6,7,8-HxCDF-13C      | 2.00          | 83                  |
| 2,3,4,7,8-PeCDF     | ND            | ----          | 0.01000      |   | 2,3,4,6,7,8-HxCDF-13C      | 2.00          | 78                  |
| Total PeCDF         | 0.0120        | ----          | 0.01000      | J | 1,2,3,7,8,9-HxCDF-13C      | 2.00          | 95                  |
|                     |               |               |              |   | 1,2,3,4,7,8-HxCDD-13C      | 2.00          | 59                  |
| 1,2,3,7,8-PeCDD     | ND            | ----          | 0.01000      |   | 1,2,3,6,7,8-HxCDD-13C      | 2.00          | 76                  |
| Total PeCDD         | ND            | ----          | 0.01000      |   | 1,2,3,4,6,7,8-HpCDF-13C    | 2.00          | 70                  |
|                     |               |               |              |   | 1,2,3,4,7,8,9-HpCDF-13C    | 2.00          | 87                  |
| 1,2,3,4,7,8-HxCDF   | ND            | ----          | 0.01000      |   | 1,2,3,4,6,7,8-HpCDD-13C    | 2.00          | 68                  |
| 1,2,3,6,7,8-HxCDF   | ND            | ----          | 0.01000      |   | OCDD-13C                   | 4.00          | 81 *                |
| 2,3,4,6,7,8-HxCDF   | ND            | ----          | 0.01000      |   |                            |               |                     |
| 1,2,3,7,8,9-HxCDF   | ND            | ----          | 0.01000      |   | 1,2,3,4-TCDD-13C           | 2.00          | NA                  |
| Total HxCDF         | ND            | ----          | 0.01000      |   | 1,2,3,7,8,9-HxCDD-13C      | 2.00          | NA                  |
|                     |               |               |              |   |                            |               |                     |
| 1,2,3,4,7,8-HxCDD   | ND            | ----          | 0.01000      |   | 2,3,7,8-TCDD-37Cl4         | 0.20          | 48                  |
| 1,2,3,6,7,8-HxCDD   | ND            | ----          | 0.01000      |   |                            |               |                     |
| 1,2,3,7,8,9-HxCDD   | ND            | ----          | 0.01000      |   |                            |               |                     |
| Total HxCDD         | ND            | ----          | 0.01000      |   |                            |               |                     |
|                     |               |               |              |   |                            |               |                     |
| 1,2,3,4,6,7,8-HpCDF | ND            | ----          | 0.01000      |   | Total 2,3,7,8-TCDD         |               |                     |
| 1,2,3,4,7,8,9-HpCDF | ND            | ----          | 0.01000      |   | Equivalence: 0.00055 ng/m2 |               |                     |
| Total HpCDF         | ND            | ----          | 0.01000      |   | (Using ITE Factors)        |               |                     |
|                     |               |               |              |   |                            |               |                     |
| 1,2,3,4,6,7,8-HpCDD | ----          | 0.012         | 0.01000      | I |                            |               |                     |
| Total HpCDD         | 0.0140        | ----          | 0.01000      | J |                            |               |                     |
|                     |               |               |              |   |                            |               |                     |
| OCDF                | ND            | ----          | 0.02000      |   |                            |               |                     |
| OCDD                | 0.1900        | ----          | 0.02000      |   |                            |               |                     |

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)  
EMPC = Estimated Maximum Possible Concentration  
A = Detection Limit based on signal-to-noise measurement  
J = Concentration detected is below the calibration range  
B = Less than 10 times higher than method blank level  
P = Recovery outside of target range  
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit  
I = Interference  
E = PCDE Interference  
S = Saturated signal  
ND = Not Detected  
NA = Not Applicable  
NC = Not Calculated  
\* = See Discussion

Report No.....02-1054209

## REPORT OF LABORATORY ANALYSIS

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SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008



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1700 Elm Street - Suite 200  
Minneapolis, MN 55414

Tel: 612-607-1700  
Fax: 612-607-6444

## Method 8290 Analysis Results

Client - ATC

|                        |                         |           |                  |
|------------------------|-------------------------|-----------|------------------|
| Client's Sample ID     | ATC-0214-234M-DX2       |           |                  |
| Lab Sample ID          | 103331799               |           |                  |
| Filename               | U20302A_08              |           |                  |
| Injected By            | BAL                     |           |                  |
| Total Amount Extracted | 1 m2                    | Matrix    | WIPE             |
| % Moisture             | NA                      | Dilution  | NA               |
| Dry Weight Extracted   | NA                      | Collected | 02/14/2002       |
| ICAL Date              | 02/26/2002              | Received  | 02/18/2002       |
| CCal Filename(s)       | U20302A_01 & U20302A_17 | Extracted | 02/25/2002       |
| Method Blank ID        | BLANK-1486              | Analyzed  | 03/02/2002 22:15 |

| Native Isomers      | Conc<br>ng/m2 | EMPC<br>ng/m2 | LRL<br>ng/m2 | Internal Standards         | ng's<br>Added | Percent<br>Recovery |
|---------------------|---------------|---------------|--------------|----------------------------|---------------|---------------------|
| 2,3,7,8-TCDF        | ND            | ----          | 0.0020       | 2,3,7,8-TCDF-13C           | 2.00          | 88                  |
| Total TCDF          | 0.014         | ----          | 0.0020       | 2,3,7,8-TCDD-13C           | 2.00          | 77                  |
|                     |               |               |              | 1,2,3,7,8-PeCDF-13C        | 2.00          | 97                  |
| 2,3,7,8-TCDD        | ND            | ----          | 0.0020       | 2,3,4,7,8-PeCDF-13C        | 2.00          | 88                  |
| Total TCDD          | ND            | ----          | 0.0020       | 1,2,3,7,8-PeCDD-13C        | 2.00          | 86                  |
|                     |               |               |              | 1,2,3,4,7,8-HxCDF-13C      | 2.00          | 92                  |
| 1,2,3,7,8-PeCDF     | ND            | ----          | 0.0100       | 1,2,3,6,7,8-HxCDF-13C      | 2.00          | 81                  |
| 2,3,4,7,8-PeCDF     | ND            | ----          | 0.0100       | 2,3,4,6,7,8-HxCDF-13C      | 2.00          | 74                  |
| Total PeCDF         | ND            | ----          | 0.0100       | 1,2,3,7,8,9-HxCDF-13C      | 2.00          | 86                  |
|                     |               |               |              | 1,2,3,4,7,8-HxCDD-13C      | 2.00          | 42                  |
| 1,2,3,7,8-PeCDD     | ND            | ----          | 0.0100       | 1,2,3,6,7,8-HxCDD-13C      | 2.00          | 76                  |
| Total PeCDD         | ND            | ----          | 0.0100       | 1,2,3,4,6,7,8-HpCDF-13C    | 2.00          | 67                  |
|                     |               |               |              | 1,2,3,4,7,8,9-HpCDF-13C    | 2.00          | 82                  |
| 1,2,3,4,7,8-HxCDF   | ND            | ----          | 0.0100       | 1,2,3,4,6,7,8-HpCDD-13C    | 2.00          | 63                  |
| 1,2,3,6,7,8-HxCDF   | ND            | ----          | 0.0100       | OCDD-13C                   | 4.00          | 84 *                |
| 2,3,4,6,7,8-HxCDF   | ND            | ----          | 0.0100       |                            |               |                     |
| 1,2,3,7,8,9-HxCDF   | ND            | ----          | 0.0100       | 1,2,3,4-TCDD-13C           | 2.00          | NA                  |
| Total HxCDF         | ND            | ----          | 0.0100       | 1,2,3,7,8,9-HxCDD-13C      | 2.00          | NA                  |
|                     |               |               |              |                            |               |                     |
| 1,2,3,4,7,8-HxCDD   | ND            | ----          | 0.0100       | 2,3,7,8-TCDD-37Cl4         | 0.20          | 52                  |
| 1,2,3,6,7,8-HxCDD   | ND            | ----          | 0.0100       |                            |               |                     |
| 1,2,3,7,8,9-HxCDD   | ND            | ----          | 0.0100       |                            |               |                     |
| Total HxCDD         | ND            | ----          | 0.0100       |                            |               |                     |
|                     |               |               |              |                            |               |                     |
| 1,2,3,4,6,7,8-HpCDF | ND            | ----          | 0.0100       | Total 2,3,7,8-TCDD         |               |                     |
| 1,2,3,4,7,8,9-HpCDF | ND            | ----          | 0.0100       | Equivalence: 0.00011 ng/m2 |               |                     |
| Total HpCDF         | ND            | ----          | 0.0100       | (Using ITE Factors)        |               |                     |
|                     |               |               |              |                            |               |                     |
| 1,2,3,4,6,7,8-HpCDD | -----         | 0.010         | 0.0100 I     |                            |               |                     |
| Total HpCDD         | ND            | ----          | 0.0100       |                            |               |                     |
|                     |               |               |              |                            |               |                     |
| OCDF                | ND            | ----          | 0.0200       |                            |               |                     |
| OCDD                | 0.110         | ----          | 0.0200       |                            |               |                     |

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)  
EMPC = Estimated Maximum Possible Concentration  
A = Detection Limit based on signal-to-noise measurement  
J = Concentration detected is below the calibration range  
B = Less than 10 times higher than method blank level  
P = Recovery outside of target range  
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit  
I = Interference  
E = PCDE Interference  
S = Saturated signal  
ND = Not Detected  
NA = Not Applicable  
NC = Not Calculated  
\* = See Discussion

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## Method 8290 Analysis Results

Client - ATC

|                        |                         |           |                  |
|------------------------|-------------------------|-----------|------------------|
| Client's Sample ID     | ATC-0214-234M-DX3       |           |                  |
| Lab Sample ID          | 103331807               |           |                  |
| Filename               | U20304A_08              |           |                  |
| Injected By            | CVS                     |           |                  |
| Total Amount Extracted | 1 m2                    | Matrix    | WIPE             |
| % Moisture             | NA                      | Dilution  | NA               |
| Dry Weight Extracted   | NA                      | Collected | 02/14/2002       |
| ICAL Date              | 02/26/2002              | Received  | 02/18/2002       |
| CCal Filename(s)       | U20304A_03 & U20304A_18 | Extracted | 02/25/2002       |
| Method Blank ID        | BLANK-1486              | Analyzed  | 03/04/2002 20:22 |

| Native Isomers      | Conc<br>ng/m2 | EMPC<br>ng/m2 | LRL<br>ng/m2 | Internal Standards          | ng's<br>Added | Percent<br>Recovery |
|---------------------|---------------|---------------|--------------|-----------------------------|---------------|---------------------|
| 2,3,7,8-TCDF        | ND            | ----          | 0.00200      | 2,3,7,8-TCDF-13C            | 2.00          | 98                  |
| Total TCDF          | 0.0024        | ----          | 0.00200 J    | 2,3,7,8-TCDD-13C            | 2.00          | 85                  |
|                     |               |               |              | 1,2,3,7,8-PeCDF-13C         | 2.00          | 78 *                |
| 2,3,7,8-TCDD        | ND            | ----          | 0.00200      | 2,3,4,7,8-PeCDF-13C         | 2.00          | 77 *                |
| Total TCDD          | 0.0046        | ----          | 0.00200 J    | 1,2,3,7,8-PeCDD-13C         | 2.00          | 73                  |
|                     |               |               |              | 1,2,3,4,7,8-HxCDF-13C       | 2.00          | 110                 |
| 1,2,3,7,8-PeCDF     | ND            | ----          | 0.01000      | 1,2,3,6,7,8-HxCDF-13C       | 2.00          | 83                  |
| 2,3,4,7,8-PeCDF     | ND            | ----          | 0.01000      | 2,3,4,6,7,8-HxCDF-13C       | 2.00          | 93                  |
| Total PeCDF         | ND            | ----          | 0.01000      | 1,2,3,7,8,9-HxCDF-13C       | 2.00          | 102                 |
|                     |               |               |              | 1,2,3,4,7,8-HxCDD-13C       | 2.00          | 76                  |
| 1,2,3,7,8-PeCDD     | ND            | ----          | 0.01000      | 1,2,3,6,7,8-HxCDD-13C       | 2.00          | 87                  |
| Total PeCDD         | ND            | ----          | 0.01000      | 1,2,3,4,6,7,8-HpCDF-13C     | 2.00          | 81                  |
|                     |               |               |              | 1,2,3,4,7,8,9-HpCDF-13C     | 2.00          | 83                  |
| 1,2,3,4,7,8-HxCDF   | ND            | ----          | 0.01000      | 1,2,3,4,6,7,8-HpCDD-13C     | 2.00          | 91                  |
| 1,2,3,6,7,8-HxCDF   | ND            | ----          | 0.01000      | OCDD-13C                    | 4.00          | 77                  |
| 2,3,4,6,7,8-HxCDF   | ND            | ----          | 0.01000      |                             |               |                     |
| 1,2,3,7,8,9-HxCDF   | ND            | ----          | 0.01000      | 1,2,3,4-TCDD-13C            | 2.00          | NA                  |
| Total HxCDF         | ND            | ----          | 0.01000      | 1,2,3,7,8,9-HxCDD-13C       | 2.00          | NA                  |
|                     |               |               |              |                             |               |                     |
| 1,2,3,4,7,8-HxCDD   | ND            | ----          | 0.01000      | 2,3,7,8-TCDD-37Cl4          | 0.20          | 53                  |
| 1,2,3,6,7,8-HxCDD   | ND            | ----          | 0.01000      |                             |               |                     |
| 1,2,3,7,8,9-HxCDD   | ND            | ----          | 0.01000      |                             |               |                     |
| Total HxCDD         | ND            | ----          | 0.01000      |                             |               |                     |
|                     |               |               |              |                             |               |                     |
| 1,2,3,4,6,7,8-HpCDF | ND            | ----          | 0.01000      | Total 2,3,7,8-TCDD          |               |                     |
| 1,2,3,4,7,8,9-HpCDF | ND            | ----          | 0.01000      | Equivalence: 0.000075 ng/m2 |               |                     |
| Total HpCDF         | ND            | ----          | 0.01000      | (Using ITE Factors)         |               |                     |
|                     |               |               |              |                             |               |                     |
| 1,2,3,4,6,7,8-HpCDD | ND            | ----          | 0.01000      |                             |               |                     |
| Total HpCDD         | ND            | ----          | 0.01000      |                             |               |                     |
|                     |               |               |              |                             |               |                     |
| OCDF                | ND            | ----          | 0.02000      |                             |               |                     |
| OCDD                | 0.0750        | ----          | 0.02000 J    |                             |               |                     |

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)  
EMPC = Estimated Maximum Possible Concentration  
A = Detection Limit based on signal-to-noise measurement  
J = Concentration detected is below the calibration range  
B = Less than 10 times higher than method blank level  
P = Recovery outside of target range  
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit  
I = Interference  
E = PCDE Interference  
S = Saturated signal  
ND = Not Detected  
NA = Not Applicable  
NC = Not Calculated  
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