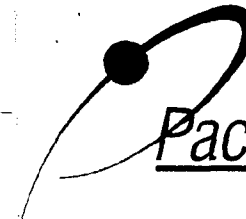


Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414



Pace AnalyticalTM

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

Method 8290 Analysis Results

Client - ATC

Client's Sample ID	ATC-0319-234M-DX1		
Lab Sample ID	103418802		
Filename	F20415A_12		
Injected By	MASB		
Total Amount Extracted	1 m2	Matrix	WIPE
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/19/2002
ICAL Date	04/12/2002	Received	03/26/2002
CCal Filename(s)	F20415A_02 & F20415A_15	Extracted	04/03/2002
Method Blank ID	BLANK-1552	Analyzed	04/15/2002 20:30

Native Isomers	Conc ng/m2	EMPC ng/m2	LRL ng/m2		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.0021	----	0.00200 J		2,3,7,8-TCDF-13C	2.00	69
Total TCDF	0.0980	----	0.00200		2,3,7,8-TCDD-13C	2.00	64
					1,2,3,7,8-PeCDF-13C	2.00	70
2,3,7,8-TCDD	ND	----	0.00200		2,3,4,7,8-PeCDF-13C	2.00	64
Total TCDD	0.1400	----	0.00200		1,2,3,7,8-PeCDD-13C	2.00	67
					1,2,3,4,7,8-HxCDF-13C	2.00	94
1,2,3,7,8-PeCDF	ND	----	0.01000		1,2,3,6,7,8-HxCDF-13C	2.00	62
2,3,4,7,8-PeCDF	ND	----	0.01000		2,3,4,6,7,8-HxCDF-13C	2.00	77
Total PeCDF	0.0240	----	0.01000 J		1,2,3,7,8,9-HxCDF-13C	2.00	71
					1,2,3,4,7,8-HxCDD-13C	2.00	92
1,2,3,7,8-PeCDD	ND	----	0.01000		1,2,3,6,7,8-HxCDD-13C	2.00	72
Total PeCDD	0.0520	----	0.01000		1,2,3,4,6,7,8-HpCDF-13C	2.00	67
					1,2,3,4,7,8,9-HpCDF-13C	2.00	57
1,2,3,4,7,8-HxCDF	ND	----	0.01000		1,2,3,4,6,7,8-HpCDD-13C	2.00	65
1,2,3,6,7,8-HxCDF	ND	----	0.01000		OCDD-13C	4.00	48
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	0.0140	----	0.01000 J		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	66
1,2,3,6,7,8-HxCDD	ND	----	0.01000				
1,2,3,7,8,9-HxCDD	ND	----	0.01000				
Total HxCDD	0.0410	----	0.01000 J				
1,2,3,4,6,7,8-HpCDF	0.0130	----	0.01000 J		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.01000		Equivalence: 0.0011 ng/m2		
Total HpCDF	0.0130	----	0.01000 J		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	0.0360	----	0.01000 J				
Total HpCDD	0.0620	----	0.01000 J				
OCDF	0.0200	----	0.02000 J				
OCDD	0.3900	----	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

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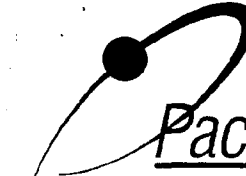
REPORT OF LABORATORY ANALYSIS

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Pace AnalyticalTM

 Pace Analytical Services, Inc.
 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-0319-234M-DX2		
Lab Sample ID	103418810		
Filename	F20415A_13		
Injected By	MASB		
Total Amount Extracted	1 m2	Matrix	WIPE
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/19/2002
ICAL Date	04/12/2002	Received	03/26/2002
CCal Filename(s)	F20415A_02 & F20415A_15	Extracted	04/03/2002
Method Blank ID	BLANK-1552	Analyzed	04/15/2002 21:18

Native Isomers	Conc ng/m2	EMPC ng/m2	LRL ng/m2	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.00200	2,3,7,8-TCDF-13C	2.00	61
Total TCDF	0.029	-----	0.00200	2,3,7,8-TCDD-13C	2.00	55
				1,2,3,7,8-PeCDF-13C	2.00	63
2,3,7,8-TCDD	ND	-----	0.00200	2,3,4,7,8-PeCDF-13C	2.00	61
Total TCDD	0.042	-----	0.00200	1,2,3,7,8-PeCDD-13C	2.00	59
				1,2,3,4,7,8-HxCDF-13C	2.00	92
1,2,3,7,8-PeCDF	ND	-----	0.01000	1,2,3,6,7,8-HxCDF-13C	2.00	68
2,3,4,7,8-PeCDF	ND	-----	0.01000	2,3,4,6,7,8-HxCDF-13C	2.00	73
Total PeCDF	ND	-----	0.01000	1,2,3,7,8,9-HxCDF-13C	2.00	55
				1,2,3,4,7,8-HxCDD-13C	2.00	84
1,2,3,7,8-PeCDD	ND	-----	0.01000	1,2,3,6,7,8-HxCDD-13C	2.00	74
Total PeCDD	0.013	-----	0.01000	1,2,3,4,6,7,8-HpCDF-13C	2.00	68
				1,2,3,4,7,8,9-HpCDF-13C	2.00	54
1,2,3,4,7,8-HxCDF	ND	-----	0.01000	1,2,3,4,6,7,8-HpCDD-13C	2.00	62
1,2,3,6,7,8-HxCDF	ND	-----	0.01000	OCDD-13C	4.00	49
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	56
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: 0.00030 ng/m2		
Total HpCDF	ND	-----	0.01000	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	0.016	-----	0.01000			
Total HpCDD	0.028	-----	0.01000			
OCDF	ND	-----	0.02000			
OCDD	0.140	-----	0.02000			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
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 B = Less than 10 times higher than method blank level
 P = Recovery outside of target range
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 NC = Not Calculated
 * = See Discussion

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