



Pace Analytical Services, Inc.
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Method 8290 Analysis Results

Client - ATC

Client's Sample ID	ATC-0301-234M-DX-1		
Lab Sample ID	103363834		
Filename	U20320A_16		
Injected By	CVS		
Total Amount Extracted	1 m2	Matrix	WIPE
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/01/2002
ICAL Date	03/20/2002	Received	03/05/2002
CCal Filename(s)	U20320A_06 & U20320A_20	Extracted	03/14/2002
Method Blank ID	BLANK-1516	Analyzed	03/20/2002 21:32

Native Isomers	Conc ng/m2	EMPC ng/m2	LRL ng/m2		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.0041	A	2,3,7,8-TCDF-13C	2.00	81
Total TCDF	0.030	----	0.0020		2,3,7,8-TCDD-13C	2.00	74
					1,2,3,7,8-PeCDF-13C	2.00	80
2,3,7,8-TCDD	ND	----	0.0025	A	2,3,4,7,8-PeCDF-13C	2.00	75
Total TCDD	0.038	----	0.0020		1,2,3,7,8-PeCDD-13C	2.00	70
					1,2,3,4,7,8-HxCDF-13C	2.00	124
1,2,3,7,8-PeCDF	ND	----	0.0100		1,2,3,6,7,8-HxCDF-13C	2.00	71
2,3,4,7,8-PeCDF	ND	----	0.0100		2,3,4,6,7,8-HxCDF-13C	2.00	95
Total PeCDF	0.010	----	0.0100	J	1,2,3,7,8,9-HxCDF-13C	2.00	100
					1,2,3,4,7,8-HxCDD-13C	2.00	98
1,2,3,7,8-PeCDD	ND	----	0.0100		1,2,3,6,7,8-HxCDD-13C	2.00	74
Total PeCDD	0.025	----	0.0100	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	63
					1,2,3,4,7,8,9-HpCDF-13C	2.00	58
1,2,3,4,7,8-HxCDF	ND	----	0.0100		1,2,3,4,6,7,8-HpCDD-13C	2.00	74
1,2,3,6,7,8-HxCDF	ND	----	0.0100		OCDD-13C	4.00	66 *
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	0.013	----	0.0100	J	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	79
1,2,3,6,7,8-HxCDD	ND	----	0.0100				
1,2,3,7,8,9-HxCDD	ND	----	0.0100				
Total HxCDD	0.038	----	0.0100	J			
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	----	0.0110	A	Equivalence: 0.00051 ng/m2		
Total HpCDF	ND	----	0.0100		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	0.028	----	0.0100	BJ			
Total HpCDD	0.028	----	0.0100	BJ			
OCDF	ND	----	0.0200	*			
OCDD	0.230	----	0.0200	B			

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.....02-1054706

REPORT OF LABORATORY ANALYSIS

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CITY_21MC100_003444426

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008



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1700 Elm Street - Suite 200
Minneapolis, MN 55414

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Method 8290 Analysis Results

Client - ATC

Client's Sample ID	ATC-0301-234M-DX-2		
Lab Sample ID	103363842		
Filename	U20325A_12		
Injected By	MASB		
Total Amount Extracted	1 m2	Matrix	WIPE
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	03/01/2002
ICAL Date	03/25/2002	Received	03/05/2002
CCal Filename(s)	U20325A_07 & U20325A_20	Extracted	03/14/2002
Method Blank ID	BLANK-1516	Analyzed	03/25/2002 18:10

Native Isomers	Conc ng/m2	EMPC ng/m2	LRL ng/m2	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.0020	2,3,7,8-TCDF-13C	2.00	57
Total TCDF	0.0023	----	0.0020 J	2,3,7,8-TCDD-13C	2.00	66
				1,2,3,7,8-PeCDF-13C	2.00	40
2,3,7,8-TCDD	ND	----	0.0020	2,3,4,7,8-PeCDF-13C	2.00	37 P
Total TCDD	0.0460	----	0.0020	1,2,3,7,8-PeCDD-13C	2.00	49
				1,2,3,4,7,8-HxCDF-13C	2.00	126
1,2,3,7,8-PeCDF	ND	----	0.0100	1,2,3,6,7,8-HxCDF-13C	2.00	57
2,3,4,7,8-PeCDF	ND	----	0.0100	2,3,4,6,7,8-HxCDF-13C	2.00	97
Total PeCDF	ND	----	0.0100	1,2,3,7,8,9-HxCDF-13C	2.00	71
				1,2,3,4,7,8-HxCDD-13C	2.00	134
1,2,3,7,8-PeCDD	----	0.011	0.0100 I	1,2,3,6,7,8-HxCDD-13C	2.00	92
Total PeCDD	0.0730	----	0.0100	1,2,3,4,6,7,8-HpCDF-13C	2.00	81
				1,2,3,4,7,8,9-HpCDF-13C	2.00	93 *
1,2,3,4,7,8-HxCDF	ND	----	0.0100	1,2,3,4,6,7,8-HpCDD-13C	2.00	86
1,2,3,6,7,8-HxCDF	ND	----	0.0100	OCDD-13C	4.00	101 *
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	0.0360	----	0.0100 J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	0.0270	----	0.0100 J	2,3,7,8-TCDD-37Cl4	0.20	68
1,2,3,6,7,8-HxCDD	0.0150	----	0.0100 J			
1,2,3,7,8,9-HxCDD	ND	----	0.0100			
Total HxCDD	0.3300	----	0.0100			
1,2,3,4,6,7,8-HpCDF	0.0280	----	0.0100 J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.0100	Equivalence: 0.0067 ng/m2		
Total HpCDF	0.0740	----	0.0100 J	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	0.1600	----	0.0100 B			
Total HpCDD	0.4100	----	0.0100 B			
OCDF	0.0480	----	0.0200 J			
OCDD	0.5800	----	0.0200 B			

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