
Pace Analytical™
1700 Elm Street - Suite 200
Minneapolis, MN 55414Tel: 612-607-1700
Fax: 612-607-6444**Method 8290 Analysis Results**

Client - ATC

Client's Sample ID	ATC-0427-STY-DX12	Matrix	DUST
Lab Sample ID	103513347	Dilution	NA
Filename	F20523A_10	Collected	04/27/2002
Injected By	BAL	Received	05/01/2002
Total Amount Extracted	0.05 g	Extracted	05/20/2002
% Moisture	NA	Analyzed	05/23/2002 20:14
Dry Weight Extracted	NA		
ICAL Date	05/04/2002		
CCal Filename(s)	F20523A_05 & F20523A_20		
Method Blank ID	BLANK-1633		

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	89	----	40 J	2,3,7,8-TCDF-13C	2.00	82
Total TCDF	650	----	40	2,3,7,8-TCDD-13C	2.00	74
				1,2,3,7,8-PeCDF-13C	2.00	75
2,3,7,8-TCDD	ND	----	53 A	2,3,4,7,8-PeCDF-13C	2.00	75
Total TCDD	540	----	40 B	1,2,3,7,8-PeCDD-13C	2.00	70
				1,2,3,4,7,8-HxCDF-13C	2.00	85
1,2,3,7,8-PeCDF	ND	----	200	1,2,3,6,7,8-HxCDF-13C	2.00	97
2,3,4,7,8-PeCDF	ND	----	200	2,3,4,6,7,8-HxCDF-13C	2.00	92
Total PeCDF	210	----	200 J	1,2,3,7,8,9-HxCDF-13C	2.00	85
				1,2,3,4,7,8-HxCDD-13C	2.00	94
1,2,3,7,8-PeCDD	ND	----	200	1,2,3,6,7,8-HxCDD-13C	2.00	90
Total PeCDD	800	----	200 J	1,2,3,4,6,7,8-HpCDF-13C	2.00	68
				1,2,3,4,7,8,9-HpCDF-13C	2.00	52
1,2,3,4,7,8-HxCDF	----	260	200 E	1,2,3,4,6,7,8-HpCDD-13C	2.00	50
1,2,3,6,7,8-HxCDF	ND	----	200	OCDD-13C	4.00	59
2,3,4,6,7,8-HxCDF	320	----	200 J			
1,2,3,7,8,9-HxCDF	ND	----	200	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	1100	----	200	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	200	2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	250	----	200 J			
1,2,3,7,8,9-HxCDD	ND	----	200			
Total HxCDD	4100	----	200			
1,2,3,4,6,7,8-HpCDF	1100	----	200	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	240	----	200 J	Equivalence: 120 ng/Kg		
Total HpCDF	1300	----	200	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	2600	----	200			
Total HpCDD	5500	----	200			
OCDF	1200	----	400 J			
OCDD	9100	----	400			

Results reported on a total weight basis

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.....02-1057132

REPORT OF LABORATORY ANALYSISThis report shall not be reproduced, except in full,
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CITY_21MC100_008987355


Pace Analytical™
1700 Elm Street - Suite 200
Minneapolis, MN 55414Tel: 612-607-1700
Fax: 612-607-5444**Method 8290 Analysis Results**

Client - ATC

Client's Sample ID	ATC-0427-STY-DX13		
Lab Sample ID	103513354		
Filename	F20523A_11		
Injected By	BAL		
Total Amount Extracted	0.16 g	Matrix	DUST
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	04/27/2002
ICAL Date	05/04/2002	Received	05/01/2002
CCal Filename(s)	F20523A_05 & F20523A_20	Extracted	05/20/2002
Method Blank ID	BLANK-1633	Analyzed	05/23/2002 21:03

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	32	----	24	JA	2,3,7,8-TCDF-13C	2.00	74
Total TCDF	550	----	12		2,3,7,8-TCDD-13C	2.00	66
					1,2,3,7,8-PeCDF-13C	2.00	67
2,3,7,8-TCDD	ND	----	25	A	2,3,4,7,8-PeCDF-13C	2.00	66
Total TCDD	410	----	12		1,2,3,7,8-PeCDD-13C	2.00	60
					1,2,3,4,7,8-HxCDF-13C	2.00	77
1,2,3,7,8-PeCDF	ND	----	62		1,2,3,6,7,8-HxCDF-13C	2.00	91
2,3,4,7,8-PeCDF	81	----	62	J	2,3,4,6,7,8-HxCDF-13C	2.00	86
Total PeCDF	450	----	62		1,2,3,7,8,9-HxCDF-13C	2.00	78
					1,2,3,4,7,8-HxCDD-13C	2.00	80
1,2,3,7,8-PeCDD	ND	----	62		1,2,3,6,7,8-HxCDD-13C	2.00	87
Total PeCDD	490	----	62		1,2,3,4,6,7,8-HpCDF-13C	2.00	63
					1,2,3,4,7,8,9-HpCDF-13C	2.00	45
1,2,3,4,7,8-HxCDF	130	----	62	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	44
1,2,3,6,7,8-HxCDF	100	----	62	J	OCDD-13C	4.00	54
2,3,4,6,7,8-HxCDF	150	----	62	J			
1,2,3,7,8,9-HxCDF	ND	----	62		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	910	----	62		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	62		2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	86	----	62	J			
1,2,3,7,8,9-HxCDD	71	----	62	J			
Total HxCDD	1600	----	62				
1,2,3,4,6,7,8-HpCDF	510	----	62		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	95	----	62	J	Equivalence: 120 ng/Kg		
Total HpCDF	600	----	62		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	1000	----	62				
Total HpCDD	2300	----	62				
OCDF	650	----	120				
OCDD	5100	----	120				

Results reported on a total weight basis

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.02-1057132

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Pace Analytical™

 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-0427-STY-DX14		
Lab Sample ID	103513362		
Filename	F20523A_12		
Injected By	BAL		
Total Amount Extracted	0.37 g	Matrix	DUST
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	04/27/2002
ICAL Date	05/04/2002	Received	05/01/2002
CCal Filename(s)	F20523A_05 & F20523A_20	Extracted	05/20/2002
Method Blank ID	BLANK-1633	Analyzed	05/23/2002 21:52

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	26	----	12.0 JA	2,3,7,8-TCDF-13C	2.00	79
Total TCDF	400	----	5.4	2,3,7,8-TCDD-13C	2.00	68
				1,2,3,7,8-PeCDF-13C	2.00	75
2,3,7,8-TCDD	ND	----	8.0 A	2,3,4,7,8-PeCDF-13C	2.00	74
Total TCDD	280	----	5.4	1,2,3,7,8-PeCDD-13C	2.00	67
				1,2,3,4,7,8-HxCDF-13C	2.00	74
1,2,3,7,8-PeCDF	ND	----	27.0	1,2,3,6,7,8-HxCDF-13C	2.00	91
2,3,4,7,8-PeCDF	71	----	27.0 J	2,3,4,6,7,8-HxCDF-13C	2.00	91
Total PeCDF	270	----	27.0	1,2,3,7,8,9-HxCDF-13C	2.00	85
				1,2,3,4,7,8-HxCDD-13C	2.00	86
1,2,3,7,8-PeCDD	----	30	27.0 I	1,2,3,6,7,8-HxCDD-13C	2.00	89
Total PeCDD	340	----	27.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	61
				1,2,3,4,7,8,9-HpCDF-13C	2.00	40
1,2,3,4,7,8-HxCDF	----	110	27.0 E	1,2,3,4,6,7,8-HpCDD-13C	2.00	48
1,2,3,6,7,8-HxCDF	----	85	27.0 E	OCDD-13C	4.00	53
2,3,4,6,7,8-HxCDF	140	----	27.0			
1,2,3,7,8,9-HxCDF	52	----	27.0 J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	500	----	27.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	36	----	27.0 J	2,3,7,8-TCDD-37Cl4	0.20	75
1,2,3,6,7,8-HxCDD	76	----	27.0 J			
1,2,3,7,8,9-HxCDD	66	----	27.0 J			
Total HxCDD	1700	----	27.0			
1,2,3,4,6,7,8-HpCDF	530	----	27.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	----	100	50.0 IA	Equivalence: 100 ng/Kg		
Total HpCDF	530	----	27.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	1300	----	27.0			
Total HpCDD	2200	----	27.0			
OCDF	1000	----	54.0			
OCDD	9000	----	54.0			

Results reported on a total weight basis
 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

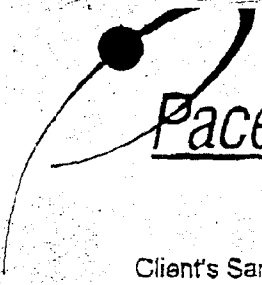
LRL = Lower Reporting Limit
 I = Interference
 E = PCDE Interference
 S = Saturated signal
 ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
 * = See Discussion

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Pace Analytical™
1700 Elm Street - Suite 200
Minneapolis, MN 55414Tel: 612-607-1700
Fax: 612-607-8444**Method 8290 Analysis Results**

Client - ATC

Client's Sample ID	ATC-0427-STY-DX15		
Lab Sample ID	103513370		
Filename	F20523A_13		
Injected By	BAL		
Total Amount Extracted	0.19 g	Matrix	DUST
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	04/27/2002
ICAL Date	05/04/2002	Received	05/01/2002
CCal Filename(s)	F20523A_05 & F20523A_20	Extracted	05/20/2002
Method Blank ID	BLANK-1633	Analyzed	05/23/2002 22:41

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	25	----	14.0	JA	2,3,7,8-TCDF-13C	2.00	84
Total TCDF	340	----	11.0		2,3,7,8-TCDD-13C	2.00	74
					1,2,3,7,8-PeCDF-13C	2.00	70
2,3,7,8-TCDD	ND	----	20.0	A	2,3,4,7,8-PeCDF-13C	2.00	74
Total TCDD	310	----	11.0		1,2,3,7,8-PeCDD-13C	2.00	68
					1,2,3,4,7,8-HxCDF-13C	2.00	73
1,2,3,7,8-PeCDF	ND	----	53.0		1,2,3,6,7,8-HxCDF-13C	2.00	84
2,3,4,7,8-PeCDF	63	----	53.0	J	2,3,4,6,7,8-HxCDF-13C	2.00	66
Total PeCDF	280	----	53.0	J	1,2,3,7,8,9-HxCDF-13C	2.00	79
					1,2,3,4,7,8-HxCDD-13C	2.00	78
1,2,3,7,8-PeCDD	ND	----	53.0		1,2,3,6,7,8-HxCDD-13C	2.00	86
Total PeCDD	350	----	53.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	59
					1,2,3,4,7,8,9-HpCDF-13C	2.00	36 IP
1,2,3,4,7,8-HxCDF	----	85	53.0	E	1,2,3,4,6,7,8-HpCDD-13C	2.00	35 JP
1,2,3,6,7,8-HxCDF	----	82	53.0	E	OCDD-13C	4.00	40
2,3,4,6,7,8-HxCDF	140	----	53.0	J			
1,2,3,7,8,9-HxCDF	ND	----	53.0		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	440	----	53.0		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	53	----	53.0	J	2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	73	----	53.0	J			
1,2,3,7,8,9-HxCDD	73	----	53.0	J			
Total HxCDD	1700	----	53.0				
1,2,3,4,6,7,8-HpCDF	540	----	53.0		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	120	----	53.0	J	Equivalence: 95 ng/Kg		
Total HpCDF	660	----	53.0		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	1200	----	53.0				
Total HpCDD	2600	----	53.0				
OCDF	1200	----	110.0				
OCDD	8100	----	110.0				

Results reported on a total weight basis

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

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S = Saturated signal

ND = Not Detected

NA = Not Applicable

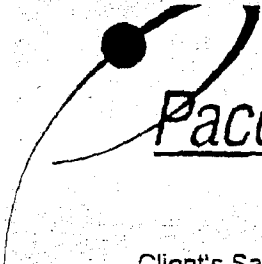
NC = Not Calculated

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Report No.....02-1057132

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Pace Analytical™
1700 Elm Street - Suite 200
Minneapolis, MN 55414Tel: 612-607-1700
Fax: 612-607-6444**Method 8290 Analysis Results**

Client - ATC

Client's Sample ID	ATC-0427-STY-DX16		
Lab Sample ID	103513388		
Filename	F20523A_14		
Injected By	BAL		
Total Amount Extracted	0.07 g	Matrix	DUST
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	04/27/2002
ICAL Date	05/04/2002	Received	05/01/2002
CCal Filename(s)	F20523A_05 & F20523A_20	Extracted	05/20/2002
Method Blank ID	BLANK-1633	Analyzed	05/23/2002 23:29

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	43	----	29 J	2,3,7,8-TCDF-13C	2.00	87
Total TCDF	160	----	29	2,3,7,8-TCDD-13C	2.00	75
				1,2,3,7,8-PeCDF-13C	2.00	68
2,3,7,8-TCDD	ND	----	38 A	2,3,4,7,8-PeCDF-13C	2.00	75
Total TCDD	260	----	29 B	1,2,3,7,8-PeCDD-13C	2.00	68
				1,2,3,4,7,8-HxCDF-13C	2.00	80
1,2,3,7,8-PeCDF	ND	----	140	1,2,3,6,7,8-HxCDF-13C	2.00	96
2,3,4,7,8-PeCDF	ND	----	140	2,3,4,6,7,8-HxCDF-13C	2.00	71
Total PeCDF	ND	----	140	1,2,3,7,8,9-HxCDF-13C	2.00	84
				1,2,3,4,7,8-HxCDD-13C	2.00	79
1,2,3,7,8-PeCDD	ND	----	140	1,2,3,6,7,8-HxCDD-13C	2.00	94
Total PeCDD	220	----	140	1,2,3,4,6,7,8-HpCDF-13C	2.00	64
				1,2,3,4,7,8,9-HpCDF-13C	2.00	48
1,2,3,4,7,8-HxCDF	ND	----	140	1,2,3,4,6,7,8-HpCDD-13C	2.00	39 IP
1,2,3,6,7,8-HxCDF	ND	----	140	OCDD-13C	4.00	49
2,3,4,6,7,8-HxCDF	ND	----	140			
1,2,3,7,8,9-HxCDF	ND	----	140	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	150	----	140	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	140	2,3,7,8-TCDD-37Cl4	0.20	87
1,2,3,6,7,8-HxCDD	ND	----	140			
1,2,3,7,8,9-HxCDD	ND	----	140			
Total HxCDD	670	----	140			
1,2,3,4,6,7,8-HpCDF	360	----	140 J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	140	Equivalence: 22 ng/Kg		
Total HpCDF	620	----	140 J	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	790	----	140			
Total HpCDD	1800	----	140			
OCDF	650	----	290 J			
OCDD	5200	----	290			

Results reported on a total weight basis
 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
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 Nn = Value obtained from additional analysis

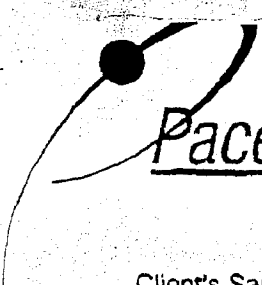
LRL = Lower Reporting Limit
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CITY_21MC100_008987359


Pace Analytical™
1700 Elm Street - Suite 200
Minneapolis, MN 55414Tel: 612-607-1700
Fax: 612-607-6444**Method 8290 Analysis Results**

Client - ATC

Client's Sample ID	ATC-0427-STY-DX17		
Lab Sample ID	103513396		
Filename	F20523A_15		
Injected By	BAL		
Total Amount Extracted	0.02 g	Matrix	DUST
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	04/27/2002
ICAL Date	05/04/2002	Received	05/01/2002
CCal Filename(s)	F20523A_05 & F20523A_20	Extracted	05/20/2002
Method Blank ID	BLANK-1633	Analyzed	05/24/2002 00:19

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	180	----	100 J	2,3,7,8-TCDF-13C	2.00	87
Total TCDF	2100	----	100	2,3,7,8-TCDD-13C	2.00	76
				1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	ND	----	130 A	2,3,4,7,8-PeCDF-13C	2.00	76
Total TCDD	2800	----	100	1,2,3,7,8-PeCDD-13C	2.00	68
				1,2,3,4,7,8-HxCDF-13C	2.00	87
1,2,3,7,8-PeCDF	ND	----	500	1,2,3,6,7,8-HxCDF-13C	2.00	101
2,3,4,7,8-PeCDF	ND	----	500	2,3,4,6,7,8-HxCDF-13C	2.00	97
Total PeCDF	510	----	500 J	1,2,3,7,8,9-HxCDF-13C	2.00	90
				1,2,3,4,7,8-HxCDD-13C	2.00	85
1,2,3,7,8-PeCDD	ND	----	500	1,2,3,6,7,8-HxCDD-13C	2.00	100
Total PeCDD	2300	----	500 J	1,2,3,4,6,7,8-HpCDF-13C	2.00	64
				1,2,3,4,7,8,9-HpCDF-13C	2.00	60
1,2,3,4,7,8-HxCDF	ND	----	500	1,2,3,4,6,7,8-HpCDD-13C	2.00	45
1,2,3,6,7,8-HxCDF	ND	----	500	OCDD-13C	4.00	53
2,3,4,6,7,8-HxCDF	ND	----	500			
1,2,3,7,8,9-HxCDF	ND	----	500	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	1000	----	500 J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	500	2,3,7,8-TCDD-37Cl4	0.20	80
1,2,3,6,7,8-HxCDD	ND	----	500			
1,2,3,7,8,9-HxCDD	ND	----	500			
Total HxCDD	6000	----	500			
1,2,3,4,6,7,8-HpCDF	1500	----	500 J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	500	Equivalence: 69 ng/Kg		
Total HpCDF	2200	----	500 J	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	2500	----	500			
Total HpCDD	5700	----	500			
OCDF	1500	----	1000 J			
OCDD	9300	----	1000 B			

Results reported on a total weight basis
 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.....02-1057132

REPORT OF LABORATORY ANALYSIS

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CITY_21MC100_008987360


Pace AnalyticalTM
1700 Elm Street • Suite 200
Minneapolis, MN 55414Tel: 612-607-1700
Fax: 612-607-6444**Method 8290 Analysis Results**

Client - ATC

Client's Sample ID	ATC-0427-STY-DX18		
Lab Sample ID	103513404		
Filename	F20523A_16		
Injected By	BAL		
Total Amount Extracted	0.38 g	Matrix	DUST
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	04/27/2002
ICAL Date	05/04/2002	Received	05/01/2002
CCal Filename(s)	F20523A_05 & F20523A_20	Extracted	05/20/2002
Method Blank ID	BLANK-1633	Analyzed	05/24/2002 01:08

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	29	5.3	E	2,3,7,8-TCDF-13C	2.00	85
Total TCDF	440.0	-----	5.3		2,3,7,8-TCDD-13C	2.00	76
					1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	9.2	-----	5.3	J	2,3,4,7,8-PeCDF-13C	2.00	74
Total TCDD	720.0	-----	5.3		1,2,3,7,8-PeCDD-13C	2.00	66
					1,2,3,4,7,8-HxCDF-13C	2.00	77
1,2,3,7,8-PeCDF	30.0	-----	26.0	J	1,2,3,6,7,8-HxCDF-13C	2.00	86
2,3,4,7,8-PeCDF	58.0	-----	26.0	J	2,3,4,6,7,8-HxCDF-13C	2.00	93
Total PeCDF	370.0	-----	26.0		1,2,3,7,8,9-HxCDF-13C	2.00	90
					1,2,3,4,7,8-HxCDD-13C	2.00	91
1,2,3,7,8-PeCDD	-----	28	26.0	I	1,2,3,6,7,8-HxCDD-13C	2.00	86
Total PeCDD	420.0	-----	26.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	61
					1,2,3,4,7,8,9-HpCDF-13C	2.00	39 IP
1,2,3,4,7,8-HxCDF	-----	72	26.0	E	1,2,3,4,6,7,8-HpCDD-13C	2.00	47
1,2,3,6,7,8-HxCDF	-----	70	26.0	E	OCDD-13C	4.00	56
2,3,4,6,7,8-HxCDF	55.0	-----	26.0	J			
1,2,3,7,8,9-HxCDF	ND	-----	26.0		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	370.0	-----	26.0		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	34.0	-----	26.0	J	2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	68.0	-----	26.0	J			
1,2,3,7,8,9-HxCDD	60.0	-----	26.0	J			
Total HxCDD	1100.0	-----	26.0				
1,2,3,4,6,7,8-HpCDF	280.0	-----	26.0		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	47.0	-----	26.0	J	Equivalence: 76 ng/Kg		
Total HpCDF	320.0	-----	26.0		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	680.0	-----	26.0				
Total HpCDD	1300.0	-----	26.0				
OCDF	370.0	-----	53.0				
OCDD	4100.0	-----	53.0				

Results reported on a total weight basis

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.....02-1057132

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CITY_21MC100_008987361



 1700 Elm Street - Suite 200
 Minneapolis, MN 55414

 Tel: 612-607-1700
 Fax: 612-607-5444

Method 8290 Analysis Results

Client - ATC

Client's Sample ID	ATC-0427-STY-DX19		
Lab Sample ID	103513412		
Filename	F20523A_17		
Injected By	BAL		
Total Amount Extracted	0.09 g	Matrix	DUST
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	04/27/2002
ICAL Date	05/04/2002	Received	05/01/2002
CCal Filename(s)	F20523A_05 & F20523A_20	Extracted	05/20/2002
Method Blank ID	BLANK-1633	Analyzed	05/24/2002 01:57

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	36	----	22 J	2,3,7,8-TCDF-13C	2.00	90
Total TCDF	480	----	22	2,3,7,8-TCDD-13C	2.00	78
				1,2,3,7,8-PeCDF-13C	2.00	75
2,3,7,8-TCDD	ND	----	26 A	2,3,4,7,8-PeCDF-13C	2.00	77
Total TCDD	510	----	22 B	1,2,3,7,8-PeCDD-13C	2.00	69
				1,2,3,4,7,8-HxCDF-13C	2.00	88
1,2,3,7,8-PeCDF	ND	----	110	1,2,3,6,7,8-HxCDF-13C	2.00	99
2,3,4,7,8-PeCDF	120	----	110 J	2,3,4,6,7,8-HxCDF-13C	2.00	66
Total PeCDF	560	----	110	1,2,3,7,8,9-HxCDF-13C	2.00	83
				1,2,3,4,7,8-HxCDD-13C	2.00	88
1,2,3,7,8-PeCDD	ND	----	110	1,2,3,6,7,8-HxCDD-13C	2.00	87
Total PeCDD	1300	----	110	1,2,3,4,6,7,8-HpCDF-13C	2.00	62
				1,2,3,4,7,8,9-HpCDF-13C	2.00	52
1,2,3,4,7,8-HxCDF	----	170	110 E	1,2,3,4,6,7,8-HpCDD-13C	2.00	39 IP
1,2,3,6,7,8-HxCDF	----	170	110 E	OCDD-13C	4.00	45
2,3,4,6,7,8-HxCDF	270	----	110 J			
1,2,3,7,8,9-HxCDF	ND	----	110	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	910	----	110	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	110	2,3,7,8-TCDD-37Cl4	0.20	89
1,2,3,6,7,8-HxCDD	180	----	110 J			
1,2,3,7,8,9-HxCDD	140	----	110 J			
Total HxCDD	3700	----	110			
1,2,3,4,6,7,8-HpCDF	880	----	110	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	130	----	110 J	Equivalence: 160 ng/Kg		
Total HpCDF	1700	----	110	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	1700	----	110			
Total HpCDD	4100	----	110			
OCDF	1100	----	220 J			
OCDD	5800	----	220			

Results reported on a total weight basis
 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

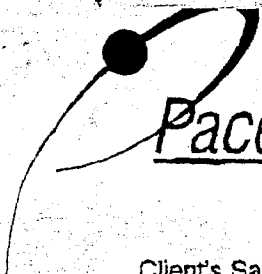
LRL = Lower Reporting Limit
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 E = PCDE Interference
 S = Saturated signal
 ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
 * = See Discussion

Report No.....02-1057132

REPORT OF LABORATORY ANALYSIS

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Pace Analytical™
1700 Elm Street - Suite 200
Minneapolis, MN 55414Tel: 612-607-1700
Fax: 612-607-6444**Method 8290 Analysis Results**

Client - ATC

Client's Sample ID	ATC-0427-STY-DX20		
Lab Sample ID	103513420		
Filename	F20523A_18		
Injected By	BAL		
Total Amount Extracted	0.21 g	Matrix	DUST
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	04/27/2002
ICAL Date	05/04/2002	Received	05/01/2002
CCal Filename(s)	F20523A_05 & F20523A_20	Extracted	05/20/2002
Method Blank ID	BLANK-1633	Analyzed	05/24/2002 02:46

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	----	27	12.0	EA	2,3,7,8-TCDF-13C	2.00	84
Total TCDF	380	----	9.5		2,3,7,8-TCDD-13C	2.00	74
					1,2,3,7,8-PeCDF-13C	2.00	73
2,3,7,8-TCDD	ND	----	13.0	A	2,3,4,7,8-PeCDF-13C	2.00	72
Total TCDD	650	----	9.5		1,2,3,7,8-PeCDD-13C	2.00	66
					1,2,3,4,7,8-HxCDF-13C	2.00	77
1,2,3,7,8-PeCDF	ND	----	48.0		1,2,3,6,7,8-HxCDF-13C	2.00	97
2,3,4,7,8-PeCDF	51	----	48.0	J	2,3,4,6,7,8-HxCDF-13C	2.00	93
Total PeCDF	350	----	48.0		1,2,3,7,8,9-HxCDF-13C	2.00	80
					1,2,3,4,7,8-HxCDD-13C	2.00	85
1,2,3,7,8-PeCDD	ND	----	48.0		1,2,3,6,7,8-HxCDD-13C	2.00	93
Total PeCDD	97	----	48.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	62
					1,2,3,4,7,8,9-HpCDF-13C	2.00	48
1,2,3,4,7,8-HxCDF	----	82	48.0	E	1,2,3,4,6,7,8-HpCDD-13C	2.00	45
1,2,3,6,7,8-HxCDF	----	66	48.0	E	OCDD-13C	4.00	55
2,3,4,6,7,8-HxCDF	73	----	48.0	J			
1,2,3,7,8,9-HxCDF	ND	----	48.0		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	440	----	48.0		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	48.0		2,3,7,8-TCDD-37Cl4	0.20	81
1,2,3,6,7,8-HxCDD	51	----	48.0	J			
1,2,3,7,8,9-HxCDD	ND	----	48.0				
Total HxCDD	900	----	48.0				
1,2,3,4,6,7,8-HpCDF	280	----	48.0		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	48.0		Equivalence: 51 ng/Kg		
Total HpCDF	280	----	48.0		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	600	----	48.0				
Total HpCDD	1300	----	48.0				
OCDF	410	----	95.0	J			
OCDD	4200	----	95.0				

Results reported on a total weight basis
 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

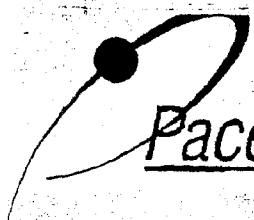
LRL = Lower Reporting Limit
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 E = PCDE Interference
 S = Saturated signal
 ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
 * = See Discussion

Report No02-1057132

REPORT OF LABORATORY ANALYSIS

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Pace Analytical™

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-0427-STY-DX21		
Lab Sample ID	103513438		
Filename	F20524A_08		
Injected By	MRO		
Total Amount Extracted	0.13 g	Matrix	DUST
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	04/27/2002
ICAL Date	05/04/2002	Received	05/01/2002
CCal Filename(s)	F20524A_01 & F20524A_15	Extracted	05/20/2002
Method Blank ID	BLANK-1633	Analyzed	05/24/2002 14:58

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	35	----	15.0 J	2,3,7,8-TCDF-13C	2.00	75
Total TCDF	790	----	15.0	2,3,7,8-TCDD-13C	2.00	74
				1,2,3,7,8-PeCDF-13C	2.00	70
2,3,7,8-TCDD	ND	----	16.0 A	2,3,4,7,8-PeCDF-13C	2.00	69
Total TCDD	520	----	15.0	1,2,3,7,8-PeCDD-13C	2.00	73
				1,2,3,4,7,8-HxCDF-13C	2.00	77
1,2,3,7,8-PeCDF	ND	----	77.0	1,2,3,6,7,8-HxCDF-13C	2.00	89
2,3,4,7,8-PeCDF	ND	----	77.0	2,3,4,6,7,8-HxCDF-13C	2.00	87
Total PeCDF	190	----	77.0 J	1,2,3,7,8,9-HxCDF-13C	2.00	86
				1,2,3,4,7,8-HxCDD-13C	2.00	90
1,2,3,7,8-PeCDD	ND	----	77.0	1,2,3,6,7,8-HxCDD-13C	2.00	93
Total PeCDD	200	----	77.0 J	1,2,3,4,6,7,8-HpCDF-13C	2.00	77
				1,2,3,4,7,8,9-HpCDF-13C	2.00	51
1,2,3,4,7,8-HxCDF	---	87	77.0 E	1,2,3,4,6,7,8-HpCDD-13C	2.00	67
1,2,3,6,7,8-HxCDF	ND	----	77.0	OCDD-13C	4.00	56
2,3,4,6,7,8-HxCDF	ND	----	77.0			
1,2,3,7,8,9-HxCDF	ND	----	77.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	130	----	77.0 J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	77.0	2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	ND	----	77.0			
1,2,3,7,8,9-HxCDD	ND	----	77.0			
Total HxCDD	410	----	77.0			
1,2,3,4,6,7,8-HpCDF	200	----	77.0 J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	77.0	Equivalence: 13 ng/Kg		
Total HpCDF	200	----	77.0 J	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	410	----	77.0			
Total HpCDD	880	----	77.0			
OCDF	270	----	150.0 J			
OCDD	3100	----	150.0			

Results reported on a total weight basis
 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.....02-1057132

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CITY_21MC100_008987364


Pace AnalyticalTM
1700 Elm Street - Suite 200
Minneapolis, MN 55414Tel: 612-607-1700
Fax: 612-607-6444**Method 8290 Analysis Results**

Client - ATC

Client's Sample ID	ATC-0427-STY-DX22		
Lab Sample ID	103513446		
Filename	F20524A_09		
Injected By	MRO		
Total Amount Extracted	0.11 g	Matrix	DUST
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	04/27/2002
ICAL Date	05/04/2002	Received	05/01/2002
CCal Filename(s)	F20524A_01 & F20524A_15	Extracted	05/20/2002
Method Blank ID	BLANK-1633	Analyzed	05/24/2002 15:48

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	29	----	18.0 J	2,3,7,8-TCDF-13C	2.00	73
Total TCDF	500	----	18.0	2,3,7,8-TCDD-13C	2.00	73
				1,2,3,7,8-PeCDF-13C	2.00	69
2,3,7,8-TCDD	ND	----	18.0	2,3,4,7,8-PeCDF-13C	2.00	70
Total TCDD	480	----	18.0	1,2,3,7,8-PeCDD-13C	2.00	74
				1,2,3,4,7,8-HxCDF-13C	2.00	68
1,2,3,7,8-PeCDF	ND	----	91.0	1,2,3,6,7,8-HxCDF-13C	2.00	81
2,3,4,7,8-PeCDF	ND	----	91.0	2,3,4,6,7,8-HxCDF-13C	2.00	83
Total PeCDF	ND	----	91.0	1,2,3,7,8,9-HxCDF-13C	2.00	67
				1,2,3,4,7,8-HxCDD-13C	2.00	91
1,2,3,7,8-PeCDD	ND	----	91.0	1,2,3,6,7,8-HxCDD-13C	2.00	91
Total PeCDD	ND	----	91.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	65
				1,2,3,4,7,8,9-HpCDF-13C	2.00	41
1,2,3,4,7,8-HxCDF	ND	----	91.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	50
1,2,3,6,7,8-HxCDF	ND	----	91.0	OCDD-13C	4.00	44
2,3,4,6,7,8-HxCDF	ND	----	91.0			
1,2,3,7,8,9-HxCDF	ND	----	91.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	150	----	91.0 J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	91.0	2,3,7,8-TCDD-37Cl4	0.20	77
1,2,3,6,7,8-HxCDD	ND	----	91.0			
1,2,3,7,8,9-HxCDD	ND	----	91.0			
Total HxCDD	850	----	91.0			
1,2,3,4,6,7,8-HpCDF	200	----	91.0 J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	91.0	Equivalence: 12 ng/Kg		
Total HpCDF	200	----	91.0 J	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	390	----	91.0 J			
Total HpCDD	860	----	91.0			
OCDF	280	----	180.0 J			
OCDD	2700	----	180.0			

Results reported on a total weight basis

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

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Report No.....02-1057132

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Minneapolis, MN 55414Tel: 612-607-1700
Fax: 612-607-6444

Method 8290 Analysis Results

Client - ATC

Client's Sample ID	ATC-0427-STY-DX23		
Lab Sample ID	103513453		
Filename	F20524A_10		
Injected By	MRO		
Total Amount Extracted	0.04 g	Matrix	DUST
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	04/27/2002
ICAL Date	05/04/2002	Received	05/01/2002
CCal Filename(s)	F20524A_01 & F20524A_15	Extracted	05/20/2002
Method Blank ID	BLANK-1633	Analyzed	05/24/2002 16:37

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	50	2,3,7,8-TCDF-13C	2.00	82
Total TCDF	200	----	50 J	2,3,7,8-TCDD-13C	2.00	83
				1,2,3,7,8-PeCDF-13C	2.00	74
2,3,7,8-TCDD	ND	----	50	2,3,4,7,8-PeCDF-13C	2.00	73
Total TCDD	190	----	50 BJ	1,2,3,7,8-PeCDD-13C	2.00	78
				1,2,3,4,7,8-HxCDF-13C	2.00	68
1,2,3,7,8-PeCDF	ND	----	250	1,2,3,6,7,8-HxCDF-13C	2.00	79
2,3,4,7,8-PeCDF	ND	----	250	2,3,4,6,7,8-HxCDF-13C	2.00	79
Total PeCDF	ND	----	250	1,2,3,7,8,9-HxCDF-13C	2.00	68
				1,2,3,4,7,8-HxCDD-13C	2.00	81
1,2,3,7,8-PeCDD	ND	----	250	1,2,3,6,7,8-HxCDD-13C	2.00	92
Total PeCDD	ND	----	250	1,2,3,4,6,7,8-HpCDF-13C	2.00	62
				1,2,3,4,7,8,9-HpCDF-13C	2.00	44
1,2,3,4,7,8-HxCDF	ND	----	250	1,2,3,4,6,7,8-HpCDD-13C	2.00	46
1,2,3,6,7,8-HxCDF	ND	----	250	OCDD-13C	4.00	45
2,3,4,6,7,8-HxCDF	ND	----	250			
1,2,3,7,8,9-HxCDF	ND	----	250	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	250	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	250	2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	ND	----	250			
1,2,3,7,8,9-HxCDD	ND	----	250			
Total HxCDD	350	----	250 J			
1,2,3,4,6,7,8-HpCDF	ND	----	250	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	250	Equivalence: 6.0 ng/Kg		
Total HpCDF	ND	----	250	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	360	----	250 J			
Total HpCDD	840	----	250 J			
OCDF	ND	----	500			
OCDD	2400	----	500 BJ			

Results reported on a total weight basis
 Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
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 P = Recovery outside of target range
 Nn = Value obtained from additional analysis

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 E = PCDE Interference
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Pace AnalyticalTM
1700 Elm Street - Suite 200
Minneapolis, MN 55414Tel: 612-607-1700
Fax: 612-607-6444**Method 8290 Analysis Results**

Client - ATC

Client's Sample ID	ATC-0427-STY-DX24		
Lab Sample ID	103513578		
Filename	F20525B_09		
Injected By	BAL		
Total Amount Extracted	0.03 g	Matrix	DUST
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	04/27/2002
ICAL Date	05/04/2002	Received	05/01/2002
CCal Filename(s)	F20525A_17 & F20525B_16	Extracted	05/21/2002
Method Blank ID	BLANK-1634	Analyzed	05/26/2002 13:12

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	91	----	67 J	2,3,7,8-TCDF-13C	2.00	68
Total TCDF	570	----	67	2,3,7,8-TCDD-13C	2.00	68
				1,2,3,7,8-PeCDF-13C	2.00	71
2,3,7,8-TCDD	ND	----	67	2,3,4,7,8-PeCDF-13C	2.00	72
Total TCDD	750	----	67 B	1,2,3,7,8-PeCDD-13C	2.00	73
				1,2,3,4,7,8-HxCDF-13C	2.00	86
1,2,3,7,8-PeCDF	ND	----	330	1,2,3,6,7,8-HxCDF-13C	2.00	89
2,3,4,7,8-PeCDF	ND	----	330	2,3,4,6,7,8-HxCDF-13C	2.00	84
Total PeCDF	ND	----	330	1,2,3,7,8,9-HxCDF-13C	2.00	82
				1,2,3,4,7,8-HxCDD-13C	2.00	84
1,2,3,7,8-PeCDD	ND	----	330	1,2,3,6,7,8-HxCDD-13C	2.00	88
Total PeCDD	ND	----	330	1,2,3,4,6,7,8-HpCDF-13C	2.00	82
				1,2,3,4,7,8,9-HpCDF-13C	2.00	70
1,2,3,4,7,8-HxCDF	ND	----	330	1,2,3,4,6,7,8-HpCDD-13C	2.00	79
1,2,3,6,7,8-HxCDF	ND	----	330	OCDD-13C	4.00	66
2,3,4,6,7,8-HxCDF	ND	----	330			
1,2,3,7,8,9-HxCDF	ND	----	330	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	330	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	330	2,3,7,8-TCDD-37Cl4	0.20	74
1,2,3,6,7,8-HxCDD	ND	----	330			
1,2,3,7,8,9-HxCDD	ND	----	330			
Total HxCDD	600	----	330 J			
1,2,3,4,6,7,8-HpCDF	ND	----	330	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	330	Equivalence: 18 ng/Kg		
Total HpCDF	ND	----	330	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	500	----	330 BJ			
Total HpCDD	1400	----	330 BJ			
OCDF	ND	----	670			
OCDD	4300	----	670 B			

Results reported on a total weight basis
 Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
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 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
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Report No.....02-1057132

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Pace Analytical™
1700 Elm Street - Suite 200
Minneapolis, MN 55414Tel: 612-807-1700
Fax: 612-807-6444**Method 8290 Analysis Results**

Client - ATC

Client's Sample ID	ATC-0427-STY-DX25		
Lab Sample ID	103513586		
Filename	F20525B_10		
Injected By	BAL		
Total Amount Extracted	0.09 g	Matrix	DUST
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	04/27/2002
ICAL Date	05/04/2002	Received	05/01/2002
CCal Filename(s)	F20525A_17 & F20525B_16	Extracted	05/21/2002
Method Blank ID	BLANK-1634	Analyzed	05/26/2002 14:02

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	31	26	EA	2,3,7,8-TCDF-13C	2.00	100
Total TCDF	430	-----	22		2,3,7,8-TCDD-13C	2.00	102
					1,2,3,7,8-PeCDF-13C	2.00	97
2,3,7,8-TCDD	ND	-----	23	A	2,3,4,7,8-PeCDF-13C	2.00	100
Total TCDD	580	-----	22		1,2,3,7,8-PeCDD-13C	2.00	102
					1,2,3,4,7,8-HxCDF-13C	2.00	115
1,2,3,7,8-PeCDF	ND	-----	110		1,2,3,6,7,8-HxCDF-13C	2.00	117
2,3,4,7,8-PeCDF	ND	-----	110		2,3,4,6,7,8-HxCDF-13C	2.00	118
Total PeCDF	130	-----	110	J	1,2,3,7,8,9-HxCDF-13C	2.00	105
					1,2,3,4,7,8-HxCDD-13C	2.00	122
1,2,3,7,8-PeCDD	ND	-----	110		1,2,3,6,7,8-HxCDD-13C	2.00	125
Total PeCDD	270	-----	110	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	108
					1,2,3,4,7,8,9-HpCDF-13C	2.00	79
1,2,3,4,7,8-HxCDF	ND	-----	110		1,2,3,4,6,7,8-HpCDD-13C	2.00	100
1,2,3,6,7,8-HxCDF	ND	-----	110		OCDD-13C	4.00	81
2,3,4,6,7,8-HxCDF	ND	-----	110				
1,2,3,7,8,9-HxCDF	ND	-----	110		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	210	-----	110	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	110		2,3,7,8-TCDD-37C14	0.20	116
1,2,3,6,7,8-HxCDD	ND	-----	110				
1,2,3,7,8,9-HxCDD	ND	-----	110				
Total HxCDD	250	-----	110	J			
1,2,3,4,6,7,8-HpCDF	210	-----	110	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	110		Equivalence: 4.6 ng/Kg		
Total HpCDF	320	-----	110	J	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	170	-----	110	BJ			
Total HpCDD	340	-----	110	BJ			
OCDF	ND	-----	220				
OCDD	870	-----	220	BJ			

Results reported on a total weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)

EMPC = Estimated Maximum Possible Concentration

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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

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E = PCDE Interference

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Pace AnalyticalTM
1700 Elm Street - Suite 200
Minneapolis, MN 55414Tel: 612-607-1700
Fax: 612-607-6444**Method 8290 Analysis Results**

Client - ATC

Client's Sample ID	ATC-0427-STY-DX26		
Lab Sample ID	103513594		
Filename	F20525B_11		
Injected By	BAL		
Total Amount Extracted	0.15 g	Matrix	DUST
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	04/27/2002
ICAL Date	05/04/2002	Received	05/01/2002
CCal Filename(s)	F20525A_17 & F20525B_16	Extracted	05/21/2002
Method Blank ID	BLANK-1634	Analyzed	05/26/2002 14:51

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	13.0	2,3,7,8-TCDF-13C	2.00	66
Total TCDF	ND	----	13.0	2,3,7,8-TCDD-13C	2.00	66
				1,2,3,7,8-PeCDF-13C	2.00	69
2,3,7,8-TCDD	ND	----	13.0	2,3,4,7,8-PeCDF-13C	2.00	70
Total TCDD	32	----	13.0 BJ	1,2,3,7,8-PeCDD-13C	2.00	71
				1,2,3,4,7,8-HxCDF-13C	2.00	79
1,2,3,7,8-PeCDF	ND	----	67.0	1,2,3,6,7,8-HxCDF-13C	2.00	84
2,3,4,7,8-PeCDF	ND	----	67.0	2,3,4,6,7,8-HxCDF-13C	2.00	77
Total PeCDF	ND	----	67.0	1,2,3,7,8,9-HxCDF-13C	2.00	74
				1,2,3,4,7,8-HxCDD-13C	2.00	79
1,2,3,7,8-PeCDD	ND	----	67.0	1,2,3,6,7,8-HxCDD-13C	2.00	81
Total PeCDD	ND	----	67.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	75
				1,2,3,4,7,8,9-HpCDF-13C	2.00	67
1,2,3,4,7,8-HxCDF	ND	----	67.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	69
1,2,3,6,7,8-HxCDF	ND	----	67.0	OCDD-13C	4.00	59
2,3,4,6,7,8-HxCDF	ND	----	67.0			
1,2,3,7,8,9-HxCDF	ND	----	67.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	67.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	67.0	2,3,7,8-TCDD-37C14	0.20	71
1,2,3,6,7,8-HxCDD	ND	----	67.0			
1,2,3,7,8,9-HxCDD	ND	----	67.0			
Total HxCDD	ND	----	67.0			
1,2,3,4,6,7,8-HpCDF	ND	----	67.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	67.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	----	67.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	67.0			
Total HpCDD	ND	----	67.0			
OCDF	ND	----	130.0			
OCDD	ND	----	130.0			

Results reported on a total weight basis
 Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
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