

# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

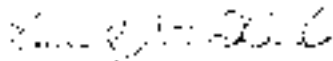
*CERTIFICATE OF ANALYSIS*

## PROJECT NARRATIVE

Chris Ricardi  
MACTEC Engineering & Consulting, Inc.  
511 Congress Street  
Portland, ME 04101

**RE: Providence Gorham Site**  
**ESS Laboratory Work Order Number: 0702344**

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this Project Narrative, the entire report has been paginated. The ESS Laboratory Certifications sheet is the final report page. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been mailed. If you have any questions or concerns, please feel free to call our Customer Service Department.



Laurel Stoddard  
Laboratory Director

Date: March 14, 2007

### Sample Receipt

9 Soil samples were received on February 28, 2007 for the analyses specified on the enclosed Chain of Custody Record.

### Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration may be used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NEI AC, except where noted within this project narrative.

No unusual observations noted.

End of Project Narrative.

mcp

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0702344

### Dioxins

Client Sample ID: SS21501  
Date Sampled: 02/28/07 09:00

ESS Laboratory Sample ID: 0702344-01  
Sample Matrix: Soil

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>LV</u>	<u>FA</u>
Dioxin	See Attached								

Client Sample ID: SS21510ap  
Date Sampled: 02/28/07 09:00

ESS Laboratory Sample ID: 0702344-02  
Sample Matrix: Soil

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>LV</u>	<u>FA</u>
Dioxin	See Attached								

Client Sample ID: SS21501  
Date Sampled: 02/28/07 10:00

ESS Laboratory Sample ID: 0702344-03  
Sample Matrix: Soil

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>LV</u>	<u>FA</u>
Dioxin	See Attached								

Client Sample ID: SS8120101  
Date Sampled: 02/28/07 11:15

ESS Laboratory Sample ID: 0702344-04  
Sample Matrix: Soil

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>LV</u>	<u>FA</u>
Dioxin	See Attached								

Client Sample ID: SS10501  
Date Sampled: 02/28/07 12:45

ESS Laboratory Sample ID: 0702344-05  
Sample Matrix: Soil

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>LV</u>	<u>FA</u>
Dioxin	See Attached								

Client Sample ID: SS10501  
Date Sampled: 02/28/07 14:00

ESS Laboratory Sample ID: 0702344-06  
Sample Matrix: Soil

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>LV</u>	<u>FA</u>
Dioxin	See Attached								

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Confam Site

ESS Laboratory Work Order: 0702344

### Dioxins

Client Sample ID: SS10667  
Date Sampled: 02/28/07 14:20

ESS Laboratory Sample ID: 0702344-07  
Sample Matrix: Soil

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV</u>	<u>EV</u>
Dioxin	See Attached								

Client Sample ID: BK201  
Date Sampled: 02/28/07 15:00

ESS Laboratory Sample ID: 0702344-08  
Sample Matrix: Soil

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV</u>	<u>EV</u>
Dioxin	See Attached								

Client Sample ID: SS10901  
Date Sampled: 02/28/07 15:30

ESS Laboratory Sample ID: 0702344-09  
Sample Matrix: Soil

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV</u>	<u>EV</u>
Dioxin	See Attached								

### Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0702344-01		
Lab Sample ID	1047221001		
Reference	P70306A_10		
Injected By	CYS		
Total Amount Extracted	12.1 g	Matrix	Soil
% Moisture	11.1	Dilution	NA
Dry Weight Extracted	10.7 g	Collected	02/28/2007
ICAT Date	02/28/2007	Received	03/01/2007
ICAT Filename(s)	P70306A_03 & P70306A_10	Extracted	03/02/2007
Method Blank ID	BLANK-12388	Analyzed	03/05/2007 20:00

Native Isomers	Conc. ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.54	-----	0.190 J	2,3,7,8-TCDF-13C	2.00	84
Total TCDF	2.60	-----	0.190	2,3,7,8-TCDD-13C	2.00	77
				1,2,3,7,8-PeCDF-13C	2.00	74
2,3,7,8-TCDD	ND	-----	0.190	2,3,4,7,8-PeCDF-13C	2.00	75
Total TCDD	0.27	-----	0.190 J	1,2,3,7,8-PeCDD-13C	2.00	82
				1,2,3,4,7,8-HxCDF-13C	2.00	102
1,2,3,7,8-PeCDF	ND	-----	0.930	1,2,3,6,7,8-HxCDF-13C	2.00	87
2,3,4,7,8-PeCDF	ND	-----	0.930	2,3,4,6,7,8-HxCDF-13C	2.00	86
Total PeCDF	ND	-----	0.930	1,2,3,7,8,9-HxCDF-13C	2.00	65
				1,2,3,4,7,8-HxCDD-13C	2.00	85
1,2,3,7,8-PeCDD	ND	-----	0.930	1,2,3,6,7,8-HxCDD-13C	2.00	74
Total PeCDD	ND	-----	0.930	1,2,3,4,6,7,8-HpCDF-13C	2.00	65
				1,2,3,4,7,8,9-HpCDF-13C	2.00	64
1,2,3,4,7,8-HxCDF	ND	-----	0.930	1,2,3,4,6,7,8-HpCDD-13C	2.00	69
1,2,3,6,7,8-HxCDF	ND	-----	0.930	OCDD-13C	4.00	54
2,3,4,6,7,8-HxCDF	ND	-----	0.930			
1,2,3,7,8,9-HxCDF	ND	-----	0.930	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.930	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.930	2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	ND	-----	0.930			
1,2,3,7,8,9-HxCDD	ND	-----	0.930			
Total HxCDD	ND	-----	0.930			
1,2,3,4,6,7,8-HpCDF	ND	-----	0.930	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.930	Equivalence: 0.071 ng/Kg		
Total HpCDF	ND	-----	0.930	(Using IFE Factors)		
1,2,3,4,6,7,8-HpCDD	1.00	-----	0.930 J			
Total HpCDD	2.00	-----	0.930 J			
OCDF	ND	-----	1.900			
OCDD	6.90	-----	1.900 J			

Results reported on a dry 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

d - Less than 10 times higher than method blank level

I - Recovery outside of target range

NA - Value obtained from additional analysis

EMPC values were excluded from the TEQ calculations

LRL = Lower Reporting Limit

I = Interference

S = PCDE interference

S = Saturated signal

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

\* - See Discussion

Report No.....1047221

## REPORT OF LABORATORY ANALYSIS

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**Method 8290 Analysis Results**

Client - ESS Laboratory

Client's Sample ID	0702344-02	Matrix	Soil
Lab Sample ID	1047221002	Dilution	NA
Filename	P70306A_11	Collected	02/28/2007
Entered By	CVS	Received	03/01/2007
Total Amount Extracted	11.2 g	Extracted	03/02/2007
Moisture	10.3	Analyzed	03/06/2007 20:46
Dry Weight Extracted	10.0 g		
ICAT Date	02/28/2007		
CCAT Filename(s)	P70306A_03 & P70306A_18		
Method Blank ID	BLANK-12388		

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.57	-----	0.200 J	2,3,7,8-TCDF-13C	2.00	89
Total TCDF	2.70	-----	0.200	2,3,7,8-TCDD-13C	2.00	83
				1,2,3,7,8-PeCDF-13C	2.00	80
2,3,7,8-TCDD	ND	-----	0.200	2,3,4,7,8-PeCDF-13C	2.00	80
Total TCDD	0.83	-----	0.200 J	1,2,3,7,8-PeCDD-13C	2.00	87
				1,2,3,4,7,8-HxCDF-13C	2.00	97
1,2,3,7,8-PeCDF	ND	-----	1.000	1,2,3,6,7,8-HxCDF-13C	2.00	92
2,3,4,7,8-PeCDF	ND	-----	1.000	2,3,4,6,7,8-HxCDF-13C	2.00	87
Total PeCDF	1.10	-----	1.000 J	1,2,3,7,8,9-HxCDF-13C	2.00	91
				1,2,3,4,7,8-HxCDD-13C	2.00	88
1,2,3,7,8-PeCDD	ND	-----	1.000	1,2,3,6,7,8-HxCDD-13C	2.00	78
Total PeCDD	ND	-----	1.000	1,2,3,4,6,7,8-HpCDF-13C	2.00	57
				1,2,3,4,7,8,9-HpCDF-13C	2.00	55
1,2,3,4,7,8-HxCDF	ND	-----	1.000	1,2,3,4,6,7,8-HpCDD-13C	2.00	71
1,2,3,5,7,8-HxCDF	ND	-----	1.000	OCDD-13C	4.00	54
2,3,4,6,7,8-HxCDF	ND	-----	1.000			
1,2,3,7,8,9-HxCDF	ND	-----	1.000	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	1.000	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.000	2,3,7,8-TCDD-37Cl4	0.20	83
1,2,3,5,7,8-HxCDD	ND	-----	1.000			
1,2,3,7,8,9-HxCDD	ND	-----	1.000			
Total HxCDD	ND	-----	1.000			
1,2,3,4,6,7,8-HpCDF	1.20	-----	1.000 J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	1.000	Equivalence: 0.091 ng/Kg		
Total HpCDF	1.20	-----	1.000 J	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	1.30	-----	1.000 J			
Total HpCDD	2.70	-----	1.000 J			
CCDF	ND	-----	2.000			
CCDD	9.20	-----	2.000 J			

Results reported on a dry weight basis.

Conc = Concentration (Total) 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

F = Recovery outside of target range

NA = Value obtained from additional analysis

EMPC values were excluded from the TEQ calculations

LRL = Lower Reporting Limit

I = Interference

E = PCB/E Interference

S = Saturated signal

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

\* = See Discussion

Report No. 1047221

**REPORT OF LABORATORY ANALYSIS**

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### Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0702344-03		
Lab Sample ID	1047221003		
Filename	P70306A_12		
Injected By	CVS		
Total Amount Extracted	14.6 g	Matrix	Soil
- Moisture	14.6	Dilution	NA
Dry Weight Extracted	12.4 g	Collected	02/28/2007
ICAI Date	02/28/2007	Received	03/01/2007
CCa File Name(s)	P70306A_03 & P70306A_18	Extracted	03/02/2007
Method Blank ID	BLANK-12388	Analyzed	03/06/2007 21:35

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.160	2,3,7,8-TCDF-13C	2.00	95
Total TCDF	ND	-----	0.160	2,3,7,8-TCDD-13C	2.00	88
				1,2,3,7,8-PeCDF-13C	2.00	87
2,3,7,8-TCDD	ND	-----	0.160	2,3,4,7,8-PeCDF-13C	2.00	88
Total TCDD	ND	-----	0.160	1,2,3,7,8-PeCDD-13C	2.00	95
				1,2,3,4,7,8-HxCDF-13C	2.00	118
1,2,3,7,8-PeCDF	ND	-----	0.800	1,2,3,6,7,8-HxCDF-13C	2.00	99
2,3,4,7,8-PeCDF	ND	-----	0.800	2,3,4,6,7,8-HxCDF-13C	2.00	95
Total PeCDF	ND	-----	0.800	1,2,3,7,8,9-HxCDF-13C	2.00	98
				1,2,3,4,7,8-HxCDD-13C	2.00	96
1,2,3,7,8-PeCDD	ND	-----	0.800	1,2,3,6,7,8-HxCDD-13C	2.00	83
Total PeCDD	ND	-----	0.800	1,2,3,4,6,7,8-HpCDF-13C	2.00	89
				1,2,3,4,7,8,9-HpCDF-13C	2.00	56
1,2,3,4,7,8-HxCDF	ND	-----	0.800	1,2,3,4,6,7,8-HpCDD-13C	2.00	73
1,2,3,6,7,8-HxCDF	ND	-----	0.800	OCDD-13C	4.00	58
2,3,4,6,7,8-HxCDF	ND	-----	0.800			
1,2,3,7,8,9-HxCDF	ND	-----	0.800	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.800	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.800	2,3,7,8-TCDD-37Cl4	0.20	50
1,2,3,6,7,8-HxCDD	ND	-----	0.800			
1,2,3,7,8,9-HxCDD	ND	-----	0.800			
Total HxCDD	ND	-----	0.800			
1,2,3,4,6,7,8-HpCDF	ND	-----	0.800	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.800	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	-----	0.800	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.800			
Total HpCDD	ND	-----	0.800			
OCDF	ND	-----	1.600			
OCDD	ND	-----	1.600			

Results reported on a dry weight basis

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

EMPC = Estimated Maximum Possible Concentration

L = Detection Limit based on signal-to-noise measurement

N = Concentration detected is below the calibration range

H = Less than 10 times higher than method blank level

R = Recovery outside of target range

NA = Value obtained from additional analysis

EMPC values were excluded from the TEQ calculations

LRL = Lower Reporting Limit

I = Interference

E = PCDF Interference

S = Saturated signal

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

- = See Discussion

Report No 1047221

## REPORT OF LABORATORY ANALYSIS

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**Method 8290 Analysis Results**

Client - ESS Laboratory

Client's Sample ID	0702344-04	Matrix	Soil
Lab Sample ID	1047221004	Detection	NA
Filename	P70306A_13	Collected	02/28/2007
Entered By	CVS	Received	03/01/2007
Total Amount Extracted	11.6 g	Extracted	03/02/2007
% Moisture	12.4	Analyzed	03/06/2007 22:24
Dry Weight Extracted	10.1 g		
ICAL Date	02/28/2007		
CCal Filename(s)	P70306A_03 & P70306A_18		
Method Blank ID	BLANK-12388		

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	2.2	-----	0.200	2,3,7,8-TCDF-13C	2.00	98
Total TCDF	56.0	-----	0.200	2,3,7,8-TCDD-13C	2.00	88
2,3,7,8-TCDD	ND	-----	0.200	1,2,3,7,8-PeCDF-13C	2.00	88
Total TCDD	4.2	-----	0.200	2,3,4,7,8-PeCDF-13C	2.00	88
				1,2,3,7,8-PeCDD-13C	2.00	96
1,2,3,7,8-PeCDF	1.4	-----	0.990	1,2,3,4,7,8-HxCDF-13C	2.00	122
2,3,4,7,8-PeCDF	7.4	-----	0.990	1,2,3,6,7,8-HxCDF-13C	2.00	100
Total PeCDF	89.0	-----	0.990	2,3,4,6,7,8-HxCDF-13C	2.00	97
				1,2,3,7,8,9-HxCDF-13C	2.00	89
1,2,3,7,8-PeCDD	ND	-----	0.990	1,2,3,4,7,8-HxCDD-13C	2.00	96
Total PeCDD	1.8	-----	0.990	1,2,3,6,7,8-HxCDD-13C	2.00	84
				1,2,3,4,6,7,8-HpCDF-13C	2.00	74
1,2,3,4,7,8-HxCDF	-----	11	0.990	1,2,3,4,7,8,9-HpCDF-13C	2.00	62
1,2,3,6,7,8-HxCDF	1.8	-----	0.990	1,2,3,4,6,7,8-HpCDD-13C	2.00	78
2,3,4,6,7,8-HxCDF	3.5	-----	0.990	OCDD-13C	4.00	61
1,2,3,7,8,9-HxCDF	ND	-----	0.990			
Total HxCDF	38.0	-----	0.990	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.990	2,3,7,8-TCDD-37Cl4	0.20	89
1,2,3,6,7,8-HxCDD	ND	-----	0.990			
1,2,3,7,8,9-HxCDD	ND	-----	0.990			
Total HxCDD	6.0	-----	0.990			
1,2,3,4,6,7,8-HpCDF	6.2	-----	0.990	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.990	Equivalence: 4.6 ng/Kg		
Total HpCDF	9.6	-----	0.990	(Using TE Factors)		
1,2,3,4,6,7,8-HpCDD	3.8	-----	0.990			
Total HpCDD	7.1	-----	0.990			
OCDF	5.4	-----	2.000			
OCDD	17.0	-----	2.000			

Results reported on a dry weight basis.

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

EMPC = Estimated Maximum Possible Concentration

L = Detection Limit based on signal-to-noise measurement

J = Concentration detected is below the calibration range

S = Less than 10 times higher than method blank level

O = Recovery outside of target range

NA = Value obtained from additional analysis

EMPC values were excluded from the TEQ calculations

LRL = Lower Reporting Limit

I = Interference

E = PCDF Interference

S = Saturated signal

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

\* = See Discussion

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### Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0702344-05				
Lab Sample ID	1047221005				
Filename	P70306B_02				
Injected By	CVS				
Total Amount Extracted	15.0 g			Matrix	Soil
% Moisture	16.2			Dilution	NA
Dry Weight Extracted	12.6 g			Collected	02/28/2007
ICAL Date	02/28/2007			Received	03/01/2007
ICAL Filename(s)	P70306A_18 & P70305B_12			Extracted	03/02/2007
Method Blank ID	BLANK-12388			Analyzed	03/07/2007 04:47

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.18	-----	0.160 J	2,3,7,8-TCDF-13C	2.00	91
Total TCDF	0.46	-----	0.160 J	2,3,7,8-TCDD-13C	2.00	82
2,3,7,8-TCDD	ND	----	0.160	1,2,3,7,8-PeCDF-13C	2.00	82
Total TCDD	0.17	-----	0.160 J	2,3,4,7,8-PeCDF-13C	2.00	94
1,2,3,7,8-PeCDF	ND	-----	0.790	1,2,3,7,8-PeCDD-13C	2.00	90
2,3,4,7,8-PeCDF	ND	-----	0.790	1,2,3,4,7,8-HxCDF-13C	2.00	113
Total PeCDF	ND	-----	0.790	1,2,3,6,7,8-HxCDF-13C	2.00	97
1,2,3,7,8-PeCDD	ND	-----	0.790	2,3,4,6,7,8-HxCDF-13C	2.00	95
Total PeCDD	ND	-----	0.790	1,2,3,7,8,9-HxCDF-13C	2.00	94
1,2,3,4,7,8-HxCDF	ND	-----	0.790	1,2,3,4,7,8-HxCDD-13C	2.00	95
1,2,3,6,7,8-HxCDF	ND	-----	0.790	1,2,3,6,7,8-HxCDD-13C	2.00	81
2,3,4,6,7,8-HxCDF	ND	-----	0.790	1,2,3,4,6,7,8-HpCDF-13C	2.00	73
1,2,3,7,8,9-HxCDF	ND	-----	0.790	1,2,3,4,7,8,9-HpCDF-13C	2.00	61
Total HxCDF	ND	-----	0.790	1,2,3,4,6,7,8-HpCDD-13C	2.00	77
1,2,3,4,7,8-HxCDD	ND	-----	0.790	OCDD-13C	4.00	98
1,2,3,6,7,8-HxCDD	ND	-----	0.790	1,2,3,4-TCDD-13C	2.00	NA
1,2,3,7,8,9-HxCDD	ND	-----	0.790	1,2,3,7,8,9-HxCDD-13C	2.00	NA
Total HxCDD	ND	-----	0.790	2,3,7,8-TCDD-37Cl4	0.20	83
1,2,3,4,6,7,8-HpCDF	ND	-----	0.790	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.790	Equivalence: 0.021 ng/Kg		
Total HpCDF	ND	-----	0.790	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.790			
Total HpCDD	ND	-----	0.790			
OCDF	ND	-----	1.600			
OCDD	3.00	-----	1.600 J			

Results reported on a dry 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

U = Less than 10 times higher than method blank level

P = Recovery outside of target range

NA = Value obtained from additional analysis

EMPC values were excluded from the TEQ calculations

LRL = Lower Reporting Limit

I = Interference

E = PCDF Interference

S = Saturated signal

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

\* = See Discussion

Report No. ... 1047221

## REPORT OF LABORATORY ANALYSIS

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### Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0702344_05	Matrix	Soil
Lab Sample ID	1047221005	Dilution	NA
Filename	P703068_06	Collected	02/28/2007
Injected By	CVS	Received	03/01/2007
Total Amount Extracted	16.4 g	Extracted	03/02/2007
% Moisture	37.7	Analyzed	03/07/2007 07:58
Dry Weight Extracted	10.2 g		
ICAL Date	02/28/2007		
CCal File name(s)	P703068A_18 & P703068_12		
Method Blank ID	BLANK-12388		

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	4.20	-----	0.22	A	2,3,7,8-TCDF-13C	2.00	83
Total TCDF	35.00	-----	0.20		2,3,7,8-TCDD-13C	2.00	76
					1,2,3,7,8-PeCDF-13C	2.00	68
2,3,7,8-TCDD	0.49	-----	0.20	J	2,3,4,7,8-PeCDF-13C	2.00	61
Total TCDD	21.00	-----	0.20		1,2,3,7,8-PeCDD-13C	2.00	71
					1,2,3,4,7,8-HxCDF-13C	2.00	118
1,2,3,7,8-PeCDF	-----	1.8	0.98	E	1,2,3,6,7,8-HxCDF-13C	2.00	83
2,3,4,7,8-PeCDF	8.20	-----	0.98		2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	110.00	-----	0.98		1,2,3,7,8,9-HxCDF-13C	2.00	71
					1,2,3,4,7,8-HxCDD-13C	2.00	95
1,2,3,7,8-PeCDD	3.80	-----	0.98	J	1,2,3,6,7,8-HxCDD-13C	2.00	83
Total PeCDD	38.00	-----	0.98		1,2,3,4,6,7,8-HpCDF-13C	2.00	42
					1,2,3,4,7,8,9-HpCDF-13C	2.00	27
1,2,3,4,7,8-HxCDF	3.50	-----	0.98	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	39
1,2,3,6,7,8-HxCDF	4.10	-----	0.98	J	OCDF-13C	4.00	34
2,3,4,6,7,8-HxCDF	-----	6.4	0.98	E			
1,2,3,7,8,9-HxCDF	2.20	-----	0.98	J	1,2,3,4-TCDFD-13C	2.00	NA
Total HxCDF	310.00	-----	0.98		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	3.10	-----	0.98	J	2,3,7,8-TCDD-37C14	0.20	17
1,2,3,6,7,8-HxCDD	49.00	-----	0.98				
1,2,3,7,8,9-HxCDD	17.00	-----	0.98				
Total HxCDD	380.00	-----	0.98				
1,2,3,4,6,7,8-HpCDF	750.00	-----	0.98		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	3.60	-----	0.98	J	Equivalence: 25 ng/Kg		
Total HpCDF	1200.00	-----	0.98		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	170.00	-----	0.98				
Total HpCDD	310.00	-----	0.98				
OCDF	390.00	-----	2.00				
OCDD	680.00	-----	2.00				

Results reported on a dry 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

NA = Value obtained from additional analysis

EMPC values were excluded from the TEQ calculations

LRL = Lower Reporting Limit

I = Interference

E = PCDE Interference

S = Saturating signal

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

\* = See Discussion

Report No. 1047221

## REPORT OF LABORATORY ANALYSIS

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**Method 8290 Analysis Results**

Client - ESS Laboratory

Client's Sample ID	0702344-07		
Lab Sample ID	1047221007		
Filename	P70306B_03		
Injected By	CVS		
Total Amount Extracted	13.2 g	Matrix	Soil
% Moisture	17.9	Dilution	NA
Dry Weight Extracted	10.9 g	Collected	02/28/2007
ICAL Date	02/28/2007	Received	03/01/2007
CCA Filename(s)	P70306A_18 & P70306B_12	Extracted	03/02/2007
Method Blank ID	BLANK-12388	Analyzed	03/07/2007 05:34

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	1.5	-----	0.180	2,3,7,8-TCDF-13C	2.00	98
Total TCDF	18.0	-----	0.180	2,3,7,8-TCDD-13C	2.00	87
				1,2,3,7,8-PeCDF-13C	2.00	89
2,3,7,8-TCDD	ND	-----	0.180	2,3,4,7,8-PeCDF-13C	2.00	91
Total TCDD	2.0	-----	0.180	1,2,3,7,8-PeCDD-13C	2.00	96
				1,2,3,4,7,8-HxCDF-13C	2.00	120
1,2,3,7,8-PeCDF	1.0	-----	0.920 J	1,2,3,6,7,8-HxCDF-13C	2.00	99
2,3,4,7,8-PeCDF	2.2	-----	0.920 J	2,3,4,6,7,8-HxCDF-13C	2.00	98
Total PeCDF	25.0	-----	0.920	1,2,3,7,8,9-HxCDF-13C	2.00	93
				1,2,3,4,7,8-HxCDD-13C	2.00	98
1,2,3,7,8-PeCDD	ND	-----	0.920	1,2,3,6,7,8-HxCDD-13C	2.00	82
Total PeCDD	1.1	-----	0.920 J	1,2,3,4,5,7,8-HpCDF-13C	2.00	74
				1,2,3,4,7,8,9-HpCDF-13C	2.00	62
1,2,3,4,7,8-HxCDF	-----	3.0	0.920 E	1,2,3,4,6,7,8-HpCDD-13C	2.00	77
1,2,3,6,7,8-HxCDF	1.0	-----	0.920 J	OCDD-13C	4.00	99
2,3,4,6,7,8-HxCDF	1.6	-----	0.920 J			
1,2,3,7,8,9-HxCDF	ND	-----	0.920	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	13.0	-----	0.920	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.920	2,3,7,8-TCDD-37Cl4	0.20	91
1,2,3,6,7,8-HxCDD	ND	-----	0.920			
1,2,3,7,8,9-HxCDD	ND	-----	0.920			
Total HxCDD	2.7	-----	0.920 J			
1,2,3,4,6,7,8-HpCDF	5.8	-----	0.920	Total: 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.920	Equivalence: 1.7 ng/Kg		
Total HpCDF	8.0	-----	0.920	(Using ITE Factors)		
1,2,3,4,5,7,8-HpCDD	4.3	-----	0.920 J			
Total HpCDD	8.4	-----	0.920			
OCDF	18.0	-----	1.800			
OCDD	32.0	-----	1.800			

Results reported on a dry weight basis

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

EMPC - Estimated Maximum Possible Concentration

A - Detection Limit (based on a signal-to-noise measurement)

J - Concentration detected is below the calibration range

!! - Less than 10 times higher than method blank level

P - Recovery outside of target range

Int - Value obtained from additional analysis

EMPC values were excluded from the TEQ calculations.

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... 1047221

**REPORT OF LABORATORY ANALYSIS**

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## Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0702344-08				
Lab Sample ID	1047221008				
Filename	P70306B_04				
Injected By	CVS				
Total Amount Extracted	14.2 g			Matrix	Soil
% Moisture	14.1			Dilution	NA
Dry Weight Extracted	12.2 g			Collected	02/28/2007
ICAL Date	02/28/2007			Received	03/01/2007
CCal Filenames:	P70306A_18 & P70306B_12			Extracted	03/02/2007
Method Blank ID	BLANK-12388			Analyzed	03/07/2007 06:22

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.58	-----	0.190	JA	2,3,7,8-TCDF-13C	2.00	82
Total TCDF	30.00	-----	0.160		2,3,7,8-TCDD-13C	2.00	75
					1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	ND	-----	0.160		2,3,4,7,8-PeCDF-13C	2.00	80
Total TCDD	0.67	-----	0.160	J	1,2,3,7,8-PeCDD-13C	2.00	85
					1,2,3,4,7,8-HxCDF-13C	2.00	100
1,2,3,7,8-PeCDF	ND	-----	0.820		1,2,3,6,7,8-HxCDF-13C	2.00	86
2,3,4,7,8-PeCDF	17.00	-----	0.820		2,3,4,6,7,8-HxCDF-13C	2.00	84
Total PeCDF	180.00	-----	0.820		1,2,3,7,8,9-HxCDF-13C	2.00	86
					1,2,3,4,7,8-HxCDD-13C	2.00	85
1,2,3,7,8-PeCDD	ND	-----	0.820		1,2,3,6,7,8-HxCDD-13C	2.00	71
Total PeCDD	1.50	-----	0.820	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	84
					1,2,3,4,7,8,9-HpCDF-13C	2.00	54
1,2,3,4,7,8-HxCDF	-----	9.8	0.820	E	1,2,3,4,6,7,8-HpCDD-13C	2.00	69
1,2,3,6,7,8-HxCDF	2.30	-----	0.820	J	OCDD-13C	4.00	87
2,3,4,6,7,8-HxCDF	5.50	-----	0.820				
1,2,3,7,8,9-HxCDF	0.89	-----	0.820	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	88.00	-----	0.820		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.820		2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	ND	-----	0.820				
1,2,3,7,8,9-HxCDD	ND	-----	0.820				
Total HxCDD	3.60	-----	0.820	J			
1,2,3,4,6,7,8-HpCDF	2.30	-----	0.820	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.820		Equivalence: 9.4 ng/Kg		
Total HpCDF	5.60	-----	0.820		(Us ng ITE Factors)		
1,2,3,4,6,7,8-HpCDD	0.93	-----	0.820	J			
Total HpCDD	1.90	-----	0.820	J			
OCDF	ND	-----	1.600				
OCDD	3.90	-----	1.600	J			

Results reported on a dry 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  
 E = Less than 10 times higher than mixed blank level  
 R = Recovery outside of target range  
 NA = Value obtained from additional analysis  
 EMPC values were excluded from the TEQ calculations

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

Report No. 1047221

## REPORT OF LABORATORY ANALYSIS

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**Method 8290 Analysis Results**

Client: FSS Laboratory

Client's Sample ID	0702344-09		
Lab Sample ID	1047221009		
Reference	P70306B_05		
Injected By	CVS		
Total Amount Extracted	12.3 g	Matrix	Soil
% Moisture	4.6	Dilution	NA
Dry Weight Extracted	11.7 g	Collected	02/28/2007
ICAL Date	02/28/2007	Received	03/01/2007
CCal Filename(s)	P70306A_18 & P70306B_12	Extracted	03/02/2007
Method Blank ID	BLANK-12388	Analyzed	03/07/2007 07:10

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.23	-----	0.170 J	2,3,7,8-TCDF-13C	2.00	93
Total TCDF	1.50	-----	0.170	2,3,7,8-TCDD-13C	2.00	84
2,3,7,8-TCDD	ND	-----	0.170	1,2,3,7,8-PeCDF-13C	2.00	86
Total TCDD	ND	-----	0.170	2,3,4,7,8-PeCDF-13C	2.00	89
				1,2,3,7,8-PeCDD-13C	2.00	96
1,2,3,7,8-PeCDF	ND	-----	0.850	1,2,3,4,7,8-HxCDF-13C	2.00	113
2,3,4,7,8-PeCDF	ND	-----	0.850	1,2,3,6,7,8-HxCDF-13C	2.00	97
Total PeCDF	1.50	-----	0.850 J	2,3,4,6,7,8-HxCDF-13C	2.00	97
				1,2,3,7,8,9-HxCDF-13C	2.00	102
1,2,3,7,8-PeCDD	ND	-----	0.850	1,2,3,4,7,8-HxCDD-13C	2.00	94
Total PeCDD	ND	-----	0.850	1,2,3,6,7,8-HxCDD-13C	2.00	84
				1,2,3,4,6,7,8-HpCDF-13C	2.00	75
1,2,3,4,7,8-HxCDF	ND	-----	0.850	1,2,3,4,7,8,9-HpCDF-13C	2.00	64
1,2,3,6,7,8-HxCDF	ND	-----	0.850	1,2,3,4,6,7,8-HpCDD-13C	2.00	80
2,3,4,6,7,8-HxCDF	ND	-----	0.850	OCDD-13C	4.00	100
1,2,3,7,8,9-HxCDF	ND	-----	0.850			
Total HxCDF	0.94	-----	0.850 J	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.850	2,3,7,8-TCDD-37Cl4	0.20	81
1,2,3,6,7,8-HxCDD	ND	-----	0.850			
1,2,3,7,8,9-HxCDD	ND	-----	0.850			
Total HxCDD	ND	-----	0.850			
1,2,3,4,6,7,8-HpCDF	1.70	-----	0.850 J	Total: 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.850	Equivalence: 0.044 ng/Kg		
Total HpCDF	1.70	-----	0.850 J	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.850			
Total HpCDD	ND	-----	0.850			
CCDF	ND	-----	1.700			
CCDD	3.90	-----	1.700 J			

Results reported on a dry weight basis

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

EMPC = Estimated Maximum Possible Concentration

A = Detect on Limit based on signal to noise measurement

J = Concentration detected is below the calibration range

&lt; = Less than 10 times higher than method blank level

C = Recovery outside of target range

NA = Value obtained from additional analysis

EMPC values were excluded from the TEQ calculations

LRL = Lower Reporting Limit

I = Interfering

E = PCDE Interference

S = Saturated signal

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

\* = See Discussion

Report No.....1047221

**REPORT OF LABORATORY ANALYSIS**

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# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0702344

### Quality Control Data

Analyte	Result	MRL	Units	Spill Level	Source Result	%REC vsREC	%REC Limit	RPO	RPO Limit	Quality
---------	--------	-----	-------	----------------	------------------	---------------	---------------	-----	--------------	---------

# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc

Client Project ID: Providence Goddard Site

ESS Laboratory Work Order: 0702344

### Notes and Definitions

- Z-08 See Attached
- U Analyte included in the analysis, but not detected
- ND Analyte NOT DETECTED above the detection limit
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- mg/kg Results reported as wet weight
- TC1P Toxicity Characteristic Leachate Procedure
- IV Initial Volume
- FV Final Volume
- § Subcontracted analysis, see attached report
- HC A forward library search of the NBS Mass Spectral Library was performed on this sample using the McInfferty Probability Base Matching (PBM) Algorithm. An estimated concentration of non-TC1P compounds tentatively identified is quantified by the internal standard method. The nearest internal standard free of interferences was used to quantify. A response factor of one was assumed. This search was inclusive of the ten largest peaks greater than ten percent of the nearest internal standard
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average
- NR No Recovery
- \* The state of RI does not grant certification for this method for non-potables.

# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## *CERTIFICATE OF ANALYSIS*

Client Name: MACTEC Engineering & Consulting, Inc

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 07102144

## **ESS LABORATORY CERTIFICATIONS**

U.S. Army Corps of Engineers  
Soil and Water

Navy Installation Restoration QA Program  
Soil and Water

Rhode Island: A-179

Connecticut: PH-0750

Maine: RI002

Massachusetts: M-RI002

New Hampshire (NH AP accredited): 242405  
Potable Water  
Non Potable Water

New York (NY LAP accredited): 11313  
Potable Water  
Non Potable Water  
Solid and Hazardous Waste

United States Department of Agriculture  
Soil Permit: S-54210

New Jersey (NJ LAP accredited): RI002  
Potable Water  
Non Potable Water  
Soil and Hazardous Waste

Maryland: 301  
Potable Water

# ESS Laboratory

Division of Child Support Services, Inc.  
 185 Frances Avenue, Cranston, RI 02915-2233  
 Tel: 401-461-7181 Fax: 401-461-1186  
 www.esslaboratory.com

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 MA 340

Item No.	Description	Date	Time	Signature	Title	Access		Remarks
						Initial	Access	
1	MACTEC	2/26/07	0900	[Signature]	CLERK	Initial	Access	
2	CHERYL KILBARD		0900	[Signature]	CLERK	Initial	Access	
3	POUR AND		1000	[Signature]	CLERK	Initial	Access	
4			1115	[Signature]	CLERK	Initial	Access	
5			1245	[Signature]	CLERK	Initial	Access	
6			1400	[Signature]	CLERK	Initial	Access	
7			1420	[Signature]	CLERK	Initial	Access	
8			1500	[Signature]	CLERK	Initial	Access	
9			1830	[Signature]	CLERK	Initial	Access	

MA 301  
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 MA 337  
 MA 338  
 MA 339  
 MA 340

Date: 4/21/04 12:20  
 Signature: [Signature]  
 Title: [Title]



**Pace Analytical Services, Inc.**  
1700 Elm Street  
Minneapolis, MN 55414  
Phone: 612.607.1700  
Fax: 612.607.6444

**Report Prepared for:**

Kevin Braga  
ESS Laboratory  
185 Frances Road  
Cranston RI 02910

**REPORT OF  
LABORATORY  
ANALYSIS FOR  
PCDD/PCDF**

**Report Information:**

**Pace Project #: 1047221**  
**Sample Receipt Date: 03/01/2007**  
**Client Project #: 0702344**  
**Client Sub PO #: N/A**  
**State Cert #: N/A**

**Invoicing & Reporting Options:**

The report provided has been invoiced as a Level 4 PCDD/PCDF 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 and prepared by:**

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

**Report Prepared Date:**

March 15, 2007



**Report of Laboratory Analysis**

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**DISCUSSION**

**REPORT NO: 1047221\_8290**

This report presents the results from the analyses performed on nine samples submitted by a representative of ESS Laboratory. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. Reporting limits were set to correspond to one-fifth of the lowest calibration points.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 27-122%. With the exceptions of three low values in sample 0702344-06, which were flagged "P" on the results table, the labeled standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

In some cases, interfering substances impacted the determinations of PCDF congeners. The affected values were flagged "E" where polychlorinated diphenyl ethers were present.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to be free of PCDDs and PCDFs at the reporting limits. This indicates that the sample processing steps did not contribute significantly to the levels reported for the field samples.

Laboratory and matrix spike samples were also prepared with the sample batch using clean sand or sample matrix that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 93-135%, with relative percent differences of 0.1-11.8%. These results indicate high degrees of accuracy and precision for these determinations.

The responses obtained for selected labeled standards in calibration standard analyses P70306B\_12 and P70307A\_07 were outside the target range. As specified in the method, the averages of the daily response factors for these compounds were used in the calculations for the samples from these runshifts. The affected values were flagged "\*" on the results tables. It should be noted that the accuracy of the native congener determinations was not impacted by these deviations.

**REPORT OF LABORATORY ANALYSIS**

**2,3,7,8-TCDD Equivalency Factors (TEFs) for the  
Polychlorinated Dibenzo-p-dioxins and Dibenzofurans  
89-ITE-Factors Factors**

Compound	TEF
2,3,7,8-TCDD	1
1,2,3,7,8-PeCDD	0.5
1,2,3,4,7,8-HxCDD	0.1
1,2,3,6,7,8-HxCDD	0.1
1,2,3,7,8,9-HxCDD	0.1
1,2,3,4,6,7,8-HpCDD	0.01
OCDD	0.001
Total TCDD	0
Total PeCDD	0
Total HxCDD	0
Total HpCDD	0
<hr/>	
2,3,7,8-TCDF	0.1
1,2,3,7,8-PeCDF	0.05
2,3,4,7,8-PeCDF	0.5
1,2,3,4,7,8-HxCDF	0.1
1,2,3,6,7,8-HxCDF	0.1
2,3,4,6,7,8-HxCDF	0.1
1,2,3,7,8,9-HxCDF	0.1
1,2,3,4,6,7,8-HpCDF	0.01
1,2,3,4,7,8,9-HpCDF	0.01
OCDF	0.001
Total TCDF	0
Total PeCDF	0
Total HxCDF	0
Total HpCDF	0

**REPORT OF LABORATORY ANALYSIS**

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# **Appendix A**

## Sample Management





## Sample ID Cross Reference

<u>Client Sample ID</u>	<u>Pace Sample ID</u>	<u>Date Received</u>	<u>Sample Type</u>
0702344-01	1047221001	03/01/2007	Soil
0702344-01-MS	1047221001-MS	03/01/2007	Soil
0702344-01-MSD	1047221001-MSD	03/01/2007	Soil
0702344-02	1047221002	03/01/2007	Soil
0702344-03	1047221003	03/01/2007	Soil
0702344-04	1047221004	03/01/2007	Soil
0702344-05	1047221005	03/01/2007	Soil
0702344-06	1047221006	03/01/2007	Soil
0702344-07	1047221007	03/01/2007	Soil
0702344-08	1047221008	03/01/2007	Soil
0702344-09	1047221009	03/01/2007	Soil

## REPORT OF LABORATORY ANALYSIS

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# CHAIN OF CUSTODY

**ESS Laboratory** *Pace*  
 Division of *Thielsen Engineering, Inc.*  
 185 Frances Avenue, Cranston, RI 02910-2211  
 Tel. (401) 461-7181 Fax (401) 461-4486  
 www.esslaboratory.com

Turn time:  Standard  Other \_\_\_\_\_  
 If faster than 5 days, prior approval by laboratory is required # \_\_\_\_\_  
 State where samples were collected from:  
 MA RI CT NH NJ NY ME Other \_\_\_\_\_  
 Is this project for any of the following: USACE Other \_\_\_\_\_  
 MA-MCP Navy

Reporting Limits: \_\_\_\_\_  
 Electronic Deliverable: Yes  No  0702344  
 Format: Excel \_\_\_\_\_ Access \_\_\_\_\_ PDF \_\_\_\_\_ Other \_\_\_\_\_

ESS LAB Sample #	Date	Collection Time	CO#	LAB	MATRIX	Sample Identification (if Chas or loc)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis
	2-28-07	0900		YS	YS	0702344-01	1	20	YG X	
		0900		YS	YS	-02	1	12	X	
		10:00		YS	YS	-03	1	16	X	
		11:15		YS	YS	-04	1	16	X	
		12:45		YS	YS	-05	1	16	X	
		14:00		YS	YS	-06	1	16	X	
		14:20		YS	YS	-07	1	16	X	
		15:00		YS	YS	-08	1	16	X	
	2-28-07	15:30		YS	YS	0702344-09	1	16	YG X	

Container Type: B-Poly  G-Glass  S-Sterile  V-VOA  Matrix:  S-Sol  SD-Solid  D-Sludge  WW-Waste Water  GW-Ground Water  SW-Surface Water  DW-Drinking Water  O-Oil  W-Wipes  F-Filters  
 Cooler Present: Yes  No  Internal Use Only: Yes  No  No NA: Yes  No  Seals Intact: Yes  No  Pickup: Yes  No   
 Cooler Temp: \_\_\_\_\_  
 Relinquished by: (Signature) *J. Davis* Date/Time: 2/28/07 1800  
 Received by: (Signature) *[Signature]* Date/Time: 3/1/07 0855 T=5.0°C  
 Relinquished by: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments: \* Gorham Project  
 Preserved by: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished by: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

\*By cycling MA-MCP, client acknowledges samples were collected in accordance with MADEPCAM VIIA  
 Please fax all changes to Chain of Custody in writing.  
 1 (White) Lab Copy 2 (Yellow) Client Receipt  
 10/26/04 A

# DIOXIN EXTRACTION WORKSHEET

Setup By NMS

EB-5649

Extraction Batch : EB-05649

**Extraction On (Date/Time):**

02-Mar-2007 14:30

**Extraction Off (Date/Time):**

03-Mar-2007 09:55

**Extract Solvents**

Toluene Lot # 061832

Hexane Lot #

MeCl Lot #

**Acid Base:**

Sulphuric Acid Lot # 064765

Buffer Soln # 126

**Silica:**

Neutral Batch # 449

Basic Batch # 628

Acid Batch # 894

**Method** 1613/8290

**Matrix** Solid

**Standards**

Internal Std B12-6279-104

Cleanup Std dwcl4-6279-106

Recovery Std CR3-6279-108

Tridecane 15221TC

Native BN1-6279-88

Others M. oil #122

Alumina Lot 45

**Alumina:**

Date 3/4/2007

Initials NMS

Temp

Hexane Lot # 067327

60% Batch # 1042

Humidity 8%

**Silica:**

Date 3/3/2007

Initials NMS

Temp

Hexane Lot # 067327

Humidity 8%

**Carbon:**

Date 3/5/2007

Initials MCH

Temp

Toluene Lot # 061832

75% Batch # 178

50% Batch # 322

Hexane Lot # 067327

Humidity 8%

	Sample #	Labeled Stds	Native Stds	mL or g Extracted	Filtered	Cl-37 Std	Mineral Oil	Acid	Buffer Soln	Silica	Alumina	Carbon	Rec Std	Glassware Set	Comments
1	BLANK-12388			20.44				1	1					51	
2	LCS-12389			20.38				1	1					57	
3	1047221001-MS			12.12										80	
4	1047221001-MSD			12.02										56	
5	07023091			13.01										70	
6	07023092			13.44										96	
7	1047221001			12.07										93	
8	1047221002			11.18										85	
9	1047221003			14.57										87	
10	1047221004			11.56										88	
11	1047221005			15.03										67	
12	1047221006			16.43				2	1					61	
13	1047221007			13.25										65	
14	1047221008			14.15										64	
15	1047221009			12.30										68	
16	1047238001			20.15				2	1					59	
17	1047238002			20.17										63	
18	1047241001			37.88										52	D. Stark NOTE 2, 3
19	1047129001			10.50				2	1					49	NOTE 1

Data Entry Reviewed By: \_\_\_\_\_

Date: \_\_\_\_\_

Extracts Relinquished By: \_\_\_\_\_

Received By: \_\_\_\_\_

Date: \_\_\_\_\_

**Extraction Notes**

Note 1: Sample decanted after final transfer and addition of recovery standard. DB 3/5/07

Note 2: Sample extracted in soxhlet, blown down for lipids, then brought up to volume with hexane and run through a carbon first column. DB 3/5/07

Note 3: Sample solidified in GC vial during final transfer. Extract was heat sensitive and became liquid again upon warming. Extract was kept warm and sent through an additional carbon column and transferred as normal. NMS 3/8/07



**Solid Sample Moisture Log**

Sample ID	Container Weight	Adjusted Wet Weight	Adjusted Dry Weight	% Moisture	% Solids	Amount Extracted
BLANK-12388	0.00	0.00	0.00	0.00	0.00	20.44
LCS-12389	0.00	0.00	0.00	0.00	0.00	20.38
1047221001-MS	1.02	8.72	7.75	11.14	88.86	12.12
1047221001-MSD	1.02	8.72	7.75	11.14	88.86	12.02
1047129001	1.02	5.73	5.54	3.37	96.63	10.50
07023091	0.00	0.00	0.00	0.00	0.00	13.01
07023092	0.00	0.00	0.00	0.00	0.00	13.44
1047221001	1.02	8.72	7.75	11.14	88.86	12.07
1047221002	1.02	8.75	7.85	10.28	89.72	11.18
1047221003	1.02	9.83	8.40	14.63	85.37	14.57
1047221004	1.03	9.20	8.06	12.41	87.59	11.56
1047221005	1.01	9.53	7.99	16.15	83.85	15.03
1047221006	1.02	7.09	4.42	37.67	62.33	16.43
1047221007	1.05	8.62	7.08	17.93	82.07	13.25
1047221008	1.03	8.33	7.16	14.07	85.93	14.15
1047221009	1.01	7.93	7.56	4.62	95.38	12.30
1047238001	0.00	0.00	0.00	0.00	0.00	20.15
1047238002	0.00	0.00	0.00	0.00	0.00	20.17
1047241001	0.00	0.00	0.00	0.00	0.00	37.88

**REPORT OF LABORATORY ANALYSIS**

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Client names have been blacked out on notebook pages in order to preserve client confidentiality



INSTRUMENT RUN LOG

Instrument 10MSHR06

Date 1/27/07

User (Initials)	File Name	Sample ID	PR	Copy	Que	Method No.	Inj. Vol.	Comments	
	File Name	File Text			Method	MS File	Inlet File	Bottle	Inject Volume
1	U70127A_01	BLANK NONANE - BAL			HOUSE	dioxfur	dioxfur	17	1.000000
2	U70127A_02	✓CAL CS3/CPM-5176-105 - BAL			1613/8290	dioxfur	dioxfur	16	1.000000
3	U70127A_03	BLANK NONANE - BAL			HOUSE	dioxfur	dioxfur	17	1.000000
4	U70127A_04	BLANK NONANE - BAL			HOUSE	dioxfur	dioxfur	17	1.000000
5	U70127A_05	BLANK NONANE - BAL			HOUSE	dioxfur	dioxfur	17	1.000000
6	U70127A_06	✓CAL CS3/CPM-5176-105 - BAL			1613/8290	dioxfur	dioxfur	16	1.000000
7	U70127A_07	_CAL TCDFMIX-10X - BAL			1613	dioxfur	dioxfur	18	1.000000
8	U70127A_08	BLANK NONANE - BAL			HOUSE	dioxfur	dioxfur	17	1.000000
9	U70127A_09	✓CAL CS3/CPM-5176-105 - BAL			8290/1613	dioxfur	dioxfur	16	1.000000
10	U70127A_10	✓CAL CS2-121306 - BAL			8290/1613	dioxfur	dioxfur	19	1.000000
11	U70127A_11	✓CAL CS1-121306 - BAL			8290/1613	dioxfur	dioxfur	20	1.000000
12	U70127A_12	✓CAL CS5-121306 - BAL			8290/1613	dioxfur	dioxfur	21	1.000000
13	U70127A_13	✓CAL CS4-121306 - BAL			8290/1613	dioxfur	dioxfur	22	1.000000
14	U70127A_14	→CAL STD-10666 - BAL 2NDSRC			8290/1613	dioxfur	dioxfur	23	1.000000

Comments  
 (1) Turn & Cal. Set inlet & exp files back to normal. BAL 1/27/07  
 (2) Passed 1613 (not 8290 due to Native TCDD 20.5%), Need TCDF mix to pass for MSD/MAJ samples. BAL 1/27/07  
 (3) Installed new DB-SMS = us44672154. BAL 1/27/07  
 (4) Turn & Cal. BAL 1/27/07

PR = Preliminary Review

H003a (18OCT03)

Peer Review/Date Jan 2/15/07

### INSTRUMENT RUN LOG

Instrument 10MSHR09

Method 1613 B

INJ Volume=1uL

Date 02-27-07

User (Initials)	File Name	Sample ID	PR	Que	Comments		
	File Name	File Text	Method	MS File	Inlet File	Bottle	Vol
	1 P70228B_01	CAL CS3/CPM-011607 - SMT 5176-105	8290/1613	dioxfur	dioxfur	Tray01:1	1.0
	2 P70228B_02	Blank Nonane - SMT nw inr source	8290/1613	DFScreen	DFScreen	Tray01:2	1.0
	3 P70228B_03	CAL CS3/CPM-011607 - SMT 5176-105	8290/1613	dioxfur	dioxfur	Tray01:1	1.0
	4 P70228B_04	CAL CS3/CPM-011607 - BAL 5176-105	8290/1613	dioxfur	dioxfur	Tray01:1	1.0
	5 P70228B_05	CAL CS2-5176-102 - BAL	8290/1613	dioxfur	dioxfur	Tray01:3	1.0
	6 P70228B_06	CAL CS1-5176-101 - BAL	8290/1613	dioxfur	dioxfur	Tray01:4	1.0
	7 P70228B_07	CAL CS5-5176-104 - BAL	8290/1613	dioxfur	dioxfur	Tray01:5	1.0
	8 P70228B_08	CAL CS4-5176-103 - BAL	8290/1613	dioxfur	dioxfur	Tray01:6	1.0
	9 P70228B_09	CAL STD-10666 - BAL 2NDSRC	8290/1613	dioxfur	dioxfur	Tray01:7	1.0
	10 P70228B_10	CAL CS3/CPM-011607 - BAL 5176-105	8290/1613	dioxfur	dioxfur	Tray01:1	1.0
	11 P70228B_11	LCS LCS-12366 - BAL	8290/1613	dioxfur	dioxfur	Tray01:8	1.0
	12 P70228B_12	LCS LCS-12367 - BAL	8290/1613	dioxfur	dioxfur	Tray01:9	1.0
	13 P70228B_13	LCS LCS-12348 - BAL	8290/1613	dioxfur	dioxfur	Tray01:10	1.0
	14 P70228B_14	LCS LCS-12349 - BAL	8290/1613	dioxfur	dioxfur	Tray01:11	1.0
	15 P70228B_15	BLANK NONANE - BAL	HOUSE	dioxfur	dioxfur	Tray01:2	1.0
	16 P70228B_16	BLANK BLANK-12365 - BAL	8290/1613	dioxfur	dioxfur	Tray01:12	1.0
	17 P70228B_17	BLANK BLANK-12347 - BAL	8290/1613	dioxfur	dioxfur	Tray01:13	1.0
	18 P70228B_18	SAMP 1046775001 - BAL	8290	dioxfur	dioxfur	Tray01:14	1.0
	19 P70228B_19	SAMP 1046775002 - BAL	8290	dioxfur	dioxfur	Tray01:15	1.0
	20 P70228B_20	SAMP 1046736001 - BAL	8290	dioxfur	dioxfur	Tray01:16	1.0
	21 P70228B_21	SAMP 1046737001 - BAL	8290	dioxfur	dioxfur	Tray01:17	1.0
	22 P70228B_22	SAMP 1046737002 - BAL	8290	dioxfur	dioxfur	Tray01:18	1.0
	23 P70228B_23	SAMP 1046735001 - BAL	8290	dioxfur	dioxfur	Tray01:19	1.0
	24 P70228B_24	SAMP 1046735002 - BAL	8290	dioxfur	dioxfur	Tray01:20	1.0
	25 P70228B_25	Blank Nonane - BAL	8290/1613	dioxfur	dioxfur	Tray01:2	1.0
	26 P70228B_26	CAL CS3/CPM-011607 - BAL 5176-105	8290/1613	dioxfur	dioxfur	Tray01:1	1.0

*Handwritten notes:*  
 11-13: 3200/1613  
 14-17: 3200/1613  
 18-24: 3200/1613  
 25: 3200/1613  
 26: 3200/1613  
 } not ok signed  
 } not ok

Comments *① Found & calibrated June 02 2007*

PR = Preliminary Review

H005b (28Dec04)

Peer Review/Date June 3/07



### INSTRUMENT RUN LOG

Instrument 10MSHR09

Method 1613 B

INJ Volume=1uL

Date 3/6/07

User (Initials)	File Name	Sample ID	PR	Que	①	Comments
	<b>File Name</b>	<b>File Text</b>				
	<b>Method</b>	<b>MS File</b>	<b>Inlet File</b>	<b>Bottle</b>	<b>Vol</b>	
1	P70306A_01	Blank Nonane - CVS				
2	P70306A_02	CAL CS3 - CVS DW Std. ②				
3	P70306A_03	CAL CS3/CPM-011607 - CVS 5176-105				
4	P70306A_04	Blank Nonane - CVS				
5	P70306A_05	Blank Blank-12388 - CVS				
6	P70306A_06	Blank Nonane - CVS				
7	P70306A_07	Samp 07023091 - CVS				
8	P70306A_08	Samp 07023092 - CVS				
9	P70306A_09	Blank Nonane - CVS				
10	P70306A_10	Samp 1047221001 - CVS ESS				
11	P70306A_11	Samp 1047221002 - CVS ESS				
12	P70306A_12	Samp 1047221003 - CVS ESS				
13	P70306A_13	Samp 1047221004 - CVS ESS				
14	P70306A_14	LCS LCS-12389 - CVS				
15	P70306A_15	Samp 1047221001-MS - CVS ESS				
16	P70306A_16	Samp 1047221001-MSD - CVS ESS				
17	P70306A_17	Blank Nonane - CVS				
18	P70306A_18	CAL CS3/CPM-011607 - CVS 5176-105				
19	P70306A_19	Blank Nonane - CVS				
	<b>File Name</b>	<b>File Text</b>				
	<b>Method</b>	<b>MS File</b>	<b>Inlet File</b>	<b>Bottle</b>	<b>Vol</b>	
1	P70306B_01	Blank Nonane - CVS				
2	P70306B_02	Samp 1047221005 - CVS ESS				
3	P70306B_03	Samp 1047221007 - CVS ESS				
4	P70306B_04	Samp 1047221008 - CVS ESS				
5	P70306B_05	Samp 1047221009 - CVS ESS				
6	P70306B_06	Samp 1047221006 - CVS ESS				
7	P70306B_07	Blank Nonane - CVS				
8	P70306B_08	Samp 1047238001 - CVS ③/15				
9	P70306B_09	Samp 1047238002 - CVS				
10	P70306B_10	Samp 1047129001 - CVS ③/1				
11	P70306B_11	Blank Nonane - CVS				
12	P70306B_12	CAL CS3/CPM-011607 - CVS 5176-105				
13	P70306B_13	Blank Nonane - CVS				
<i>Done 3/15/07</i>						
<b>Comments</b>						
① Front end + flusher on 3/6/07						
③ Trap current not regulating. Rebuild inner source, at 3/6/07						

PR = Preliminary Review

H005b (28Dec04)

Peer Review/Date 3/6/07

### INSTRUMENT RUN LOG

Instrument 10MSHR09

Method 1613 B

INJ Volume=1uL

Date 3/1/07

User (Initials)	File Name	Sample ID	PR	Que	Comments				
	<b>File Name</b>	<b>File Text</b>			<b>Method</b>	<b>MS File</b>	<b>Inlet File</b>	<b>Bottle</b>	<b>Vol</b>
	1 P70307A_01	Blank Nonane - CVS Front End			8290/1613	DFScreen	DFScreen	Tray01:2	1.0
	2 P70307A_02	CAL CS3/CPM-011607 - CVS 5176-105			8290/1613	dioxfur	dioxfur	Tray01:1	1.0
	3 P70307A_03	Blank Blank-12388 - CVS			8290/1613	dioxfur	dioxfur	Tray01:3	1.0
	4 P70307A_04	Blank Nonane - CVS			8290/1613	DFScreen	DFScreen	Tray01:2	1.0
	5 P70307A_05	Blank Blank-12388 - CVS			8290/1613	dioxfur	dioxfur	Tray01:3	1.0
	6 P70307A_06	LCS LCS-12389 - CVS			8290/1613	dioxfur	dioxfur	Tray01:4	1.0
	7 P70307A_07	CAL CS3/CPM-011607 - CVS 5176-105			8290/1613	dioxfur	dioxfur	Tray01:1	1.0
	<b>File Name</b>	<b>File Text</b>			<b>Method</b>	<b>MS File</b>	<b>Inlet File</b>	<b>Bottle</b>	<b>Vol</b>
	1 P70307B_01	CAL CPM-6279-102 -BAL			1613-DW	TCDD-DW	TCDD-DW	Tray01:1	1.0
	2 P70307B_02	CAL CS3-5167-106 -BAL			1613-DW	TCDD-DW	TCDD-DW	Tray01:2	1.0
	3 P70307B_03	LCS LCS-12430 - BAL			1613-DW	TCDD-DW	TCDD-DW	Tray01:3	1.0
	4 P70307B_04	LCS LCSD-12431 - BAL			1613-DW	TCDD-DW	TCDD-DW	Tray01:4	1.0
	5 P70307B_05	BLANK BLANK-12429 - BAL			1613-DW	TCDD-DW	TCDD-DW	Tray01:5	1.0
	6 P70307B_06	SAMP 1047434001 - BAL			1613-DW	TCDD-DW	TCDD-DW	Tray01:6	1.0
	7 P70307B_07	SAMP 1047439001 - BAL			1613-DW	TCDD-DW	TCDD-DW	Tray01:7	1.0
	8 P70307B_08	SAMP 1047235001 - BAL			1613-DW	TCDD-DW	TCDD-DW	Tray01:8	1.0
	9 P70307B_09	SAMP 1047320001 - BAL			1613-DW	TCDD-DW	TCDD-DW	Tray01:9	1.0
	10 P70307B_10	SAMP 1047321001 - BAL			1613-DW	TCDD-DW	TCDD-DW	Tray01:10	1.0
	11 P70307B_11	SAMP 1047322001 - BAL			1613-DW	TCDD-DW	TCDD-DW	Tray01:11	1.0
	12 P70307B_12	SAMP 1047323001 - BAL			1613-DW	TCDD-DW	TCDD-DW	Tray01:12	1.0
	13 P70307B_13	SAMP 1047324001 - BAL			1613-DW	TCDD-DW	TCDD-DW	Tray01:13	1.0
	14 P70307B_14	SAMP 1047327001 - BAL			1613-DW	TCDD-DW	TCDD-DW	Tray01:14	1.0
	15 P70307B_15	SAMP 1047043001 - BAL			1613-DW	TCDD-DW	TCDD-DW	Tray01:15	1.0
	16 P70307B_16	SAMP 1047046001 - BAL			1613-DW	TCDD-DW	TCDD-DW	Tray01:16	1.0
	17 P70307B_17	SAMP 1047047001 - BAL			1613-DW	TCDD-DW	TCDD-DW	Tray01:17	1.0
	18 P70307B_18	SAMP 1047099001 - BAL			1613-DW	TCDD-DW	TCDD-DW	Tray01:18	1.0
	19 P70307B_19	SAMP 1047101001 - BAL			1613-DW	TCDD-DW	TCDD-DW	Tray01:19	1.0
	20 P70307B_20	SAMP 1047102001 - BAL			1613-DW	TCDD-DW	TCDD-DW	Tray01:20	1.0
	21 P70307B_21	SAMP 1047263001 - BAL			1613-DW	TCDD-DW	TCDD-DW	Tray01:21	1.0
	22 P70307B_22	SAMP 1047265001 - BAL			1613-DW	TCDD-DW	TCDD-DW	Tray01:22	1.0
	23 P70307B_23	SAMP 1047189001 - BAL			1613-DW	TCDD-DW	TCDD-DW	Tray01:23	1.0
	24 P70307B_24	SAMP 1047190001 - BAL			1613-DW	TCDD-DW	TCDD-DW	Tray01:24	1.0
	25 P70307B_25	SAMP 1047220001 - BAL			1613-DW	TCDD-DW	TCDD-DW	Tray01:25	1.0 <i>out of sequence</i>
<b>Comments</b>									

PR = Preliminary Review

H005b (28Dec04)

Peer Review/Date 3/1/07

## INSTRUMENT RUN LOG

Instrument 10MSHR06

Date 3/7/07

User (Initials)	File Name	Sample ID	PR	Copy	Que	Method No.	Inj. Vol.	Comments		
	<b>File Name</b>	<b>File Text</b>				<b>Method</b>	<b>MS File</b>	<b>Inlet File</b>	<b>Bottle</b>	<b>Inject Volume</b>
	1 U70307A_01	CAL CS3-120606 - CVS				23	dioxfur	dioxfur	18	1.000000
	2 U70307A_02	Blank Tridecane - CVS				23	dioxfur	dioxfur	17	1.000000
	3 U70307A_03	Blank Blank-12350 - CVS				23	dioxfur	dioxfur	19	1.000000
	4 U70307A_04	Blank Blank-12424 - CVS				8290/1613	dioxfur	dioxfur	20	1.000000
	5 U70307A_05	Samp 1047416001 - CVS				8290	dioxfur	dioxfur	21	1.000000
	6 U70307A_06	Samp 1047416002 - CVS				8290	dioxfur	dioxfur	22	1.000000
	7 U70307A_07	Samp 1047416003 - CVS				8290	dioxfur	dioxfur	23	1.000000
	8 U70307A_08	Samp 1047416004 - CVS				8290	dioxfur	dioxfur	24	1.000000
	9 U70307A_09	Samp 1047193001 - CVS				1613tet	dioxfur	dioxfur	25	1.000000
	10 U70307A_10	Samp 1047345001 - CVS				1613TD	dioxfur	dioxfur	26	1.000000
	11 U70307A_11	LCS LCS-12425 - CVS				8290/1613	dioxfur	dioxfur	27	1.000000
	12 U70307A_12	LCS LCSD-12426 - CVS				8290/1613	dioxfur	dioxfur	28	1.000000
	13 U70307A_13	CAL CS3/CPM-5176-105 - CVS				8290/1613	dioxfur	dioxfur	16	1.000000
	<b>File Name</b>	<b>File Text</b>				<b>Method</b>	<b>MS File</b>	<b>Inlet File</b>	<b>Bottle</b>	<b>Inject Volume</b>
	1 U70307B_01	LCS LCS-12408 - BAL				8290	dioxfur	dioxfur	29	1.000000
	2 U70307B_02	LCS LCSD-12409 - BAL				8290	dioxfur	dioxfur	30	1.000000
	3 U70307B_03	LCS LCS-12419 - BAL				8290/1613	dioxfur	dioxfur	31	1.000000
	4 U70307B_04	BLANK TRIDECAENE - BAL				HOUSE	dioxfur	dioxfur	17	1.000000
	5 U70307B_05	BLANK BLANK-12407 - BAL				8290	dioxfur	dioxfur	32	1.000000
	6 U70307B_06	BLANK BLANK-12418 - BAL				8290/1613	dioxfur	dioxfur	33	1.000000
	7 U70307B_07	SAMP 1046832001-R - BAL				1613	dioxfur	dioxfur	34	1.000000
	8 U70307B_08	SAMP 1047119001 - BAL				8290	dioxfur	dioxfur	35	1.000000
	9 U70307B_09	SAMP 1047291001 - BAL				1613	dioxfur	dioxfur	36	1.000000
	10 U70307B_10	SAMP 1047267001 - BAL				8290	dioxfur	dioxfur	37	1.000000
	11 U70307B_11	SAMP 1047267002 - BAL				8290	dioxfur	dioxfur	38	1.000000
	12 U70307B_12	SAMP 1047267003 - BAL				8290	dioxfur	dioxfur	39	1.000000
	13 U70307B_13	SAMP 1047267004 - BAL				8290	dioxfur	dioxfur	40	1.000000
	14 U70307B_14	SAMP 1046514003-R - BAL				1613	dioxfur	dioxfur	41	1.000000
	15 U70307B_15	BLANK TRIDECAENE - BAL				HOUSE	dioxfur	dioxfur	17	1.000000
	16 U70307B_16	CAL CS3/CPM-5176-105 - CVS				8290/1613	dioxfur	dioxfur	16	1.000000

Date 3/15/07

## Comments

PR = Preliminary Review

H003a (18OCT03)

Peer Review/Date 3/15/07

INSTRUMENT RUN LOG

Instrument 10MSHR06

Date 3/4/07

User (Initials)	File Name	Sample ID	PR	Copy	Que	Method No.	Inj. Vol.	Comments		
	<b>File Name</b>	<b>File Text</b>				<b>Method</b>	<b>MS File</b>	<b>Inlet File</b>	<b>Bottle</b>	<b>Inject Volume</b>
1	U70308A_01	SAMP 1046267001-MS - BAL				8290	dioxfur	dioxfur	42	1.000000
2	U70308A_02	SAMP 1046267001-MSD - BAL				8290	dioxfur	dioxfur	43	1.000000
3	U70308A_03	BLANK TRIDECANE - BAL				HOUSE	dioxfur	dioxfur	17	1.000000
4	U70308A_04	BLANK TRIDECANE - BAL				HOUSE	dioxfur	dioxfur	17	1.000000
5	U70308A_05	SAMP 1046719001 - BAL				8290	dioxfur	dioxfur	44	1.000000
6	U70308A_06	BLANK TRIDECANE - BAL				HOUSE	dioxfur	dioxfur	17	1.000000
7	U70308A_07	LCS LCS-12389 - CVS				8290/1613	dioxfur	dioxfur	46	1.000000
8	U70308A_08	CAL CS3/CPM-5176-105 - CVS				8290/1613	dioxfur	dioxfur	16	1.000000
	<b>File Name</b>	<b>File Text</b>				<b>Method</b>	<b>MS File</b>	<b>Inlet File</b>	<b>Bottle</b>	<b>Inject Volume</b>
1	U70308B_01	Blank Tridecane - CVS				8290/1613	dioxfur	dioxfur	17	1.000000
2	U70308B_02	Blank Tridecane - CVS				8290/1613	dioxfur	dioxfur	17	1.000000
3	U70308B_03	Blank Tridecane - BAL				8290/1613	dioxfur	dioxfur	17	1.000000
4	U70308B_04	SAMP 1046736001 - BAL				8290	dioxfur	dioxfur	47	1.000000
5	U70308B_05	SAMP 1046737001 - BAL				8290	dioxfur	dioxfur	48	1.000000
6	U70308B_06	SAMP 1046737002 - BAL				8290	dioxfur	dioxfur	49	1.000000
7	U70308B_07	Blank Tridecane - BAL				HOUSE	dioxfur	dioxfur	17	1.000000
8	U70308B_08	SAMP 1047241001 - BAL				1613	dioxfur	dioxfur	50	1.000000
9	U70308B_09	Blank Tridecane - BAL				HOUSE	dioxfur	dioxfur	17	1.000000
10	U70308B_10	CAL CS3/CPM-5176-105 - CVS				8290/1613	dioxfur	dioxfur	16	1.000000

See 4-5-07

Comments

PR = Preliminary Review

H003a (18OCT03)

Peer Review/Date Jan-28-07

## **Appendix B**

### Sample Analysis Summary



### Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	0702344-01			
Lab Sample ID	1047221001			
Filename	P70306A_10			
Injected By	CVS			
Total Amount Extracted	12.1 g	Matrix	Soil	
% Moisture	11.1	Dilution	NA	
Dry Weight Extracted	10.7 g	Collected	02/28/2007	
ICAL Date	02/28/2007	Received	03/01/2007	
CCal Filename(s)	P70306A_03 & P70306A_18	Extracted	03/02/2007	
Method Blank ID	BLANK-12388	Analyzed	03/06/2007 20:00	

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.54	----	0.19 J	2,3,7,8-TCDF-13C	2.00	84
Total TCDF	2.60	----	0.19	2,3,7,8-TCDD-13C	2.00	77
				1,2,3,7,8-PeCDF-13C	2.00	74
2,3,7,8-TCDD	ND	----	0.19	2,3,4,7,8-PeCDF-13C	2.00	75
Total TCDD	0.27	----	0.19 J	1,2,3,7,8-PeCDD-13C	2.00	82
				1,2,3,4,7,8-HxCDF-13C	2.00	102
1,2,3,7,8-PeCDF	ND	----	0.93	1,2,3,6,7,8-HxCDF-13C	2.00	87
2,3,4,7,8-PeCDF	ND	----	0.93	2,3,4,6,7,8-HxCDF-13C	2.00	86
Total PeCDF	ND	----	0.93	1,2,3,7,8,9-HxCDF-13C	2.00	86
				1,2,3,4,7,8-HxCDD-13C	2.00	85
1,2,3,7,8-PeCDD	ND	----	0.93	1,2,3,6,7,8-HxCDD-13C	2.00	74
Total PeCDD	ND	----	0.93	1,2,3,4,6,7,8-HpCDF-13C	2.00	65
				1,2,3,4,7,8,9-HpCDF-13C	2.00	54
1,2,3,4,7,8-HxCDF	ND	----	0.93	1,2,3,4,6,7,8-HpCDD-13C	2.00	69
1,2,3,6,7,8-HxCDF	ND	----	0.93	OCDD-13C	4.00	54
2,3,4,6,7,8-HxCDF	ND	----	0.93			
1,2,3,7,8,9-HxCDF	ND	----	0.93	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.93	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.93	2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	ND	----	0.93			
1,2,3,7,8,9-HxCDD	ND	----	0.93			
Total HxCDD	ND	----	0.93			
1,2,3,4,6,7,8-HpCDF	ND	----	0.93	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.93	Equivalence: 0.071 ng/Kg		
Total HpCDF	ND	----	0.93	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	1.00	----	0.93 J			
Total HpCDD	2.00	----	0.93 J			
OCDF	ND	----	1.90			
OCDD	6.90	----	1.90 J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).  
EMPC = Estimated Maximum Possible Concentration  
RL = Reporting Limit.

ND = Not Detected  
NA = Not Applicable  
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.  
J = Value below calibration range

## REPORT OF LABORATORY ANALYSIS

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### Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	0702344-02		
Lab Sample ID	1047221002		
Filename	P70306A_11		
Injected By	CVS		
Total Amount Extracted	11.2 g	Matrix	Soil
% Moisture	10.3	Dilution	NA
Dry Weight Extracted	10.0 g	Collected	02/28/2007
ICAL Date	02/28/2007	Received	03/01/2007
CCal Filename(s)	P70306A_03 & P70306A_18	Extracted	03/02/2007
Method Blank ID	BLANK-12388	Analyzed	03/06/2007 20:48

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.57	----	0.20 J	2,3,7,8-TCDF-13C	2.00	89
Total TCDF	2.70	----	0.20	2,3,7,8-TCDD-13C	2.00	83
				1,2,3,7,8-PeCDF-13C	2.00	80
2,3,7,8-TCDD	ND	----	0.20	2,3,4,7,8-PeCDF-13C	2.00	80
Total TCDD	0.83	----	0.20 J	1,2,3,7,8-PeCDD-13C	2.00	87
				1,2,3,4,7,8-HxCDF-13C	2.00	107
1,2,3,7,8-PeCDF	ND	----	1.00	1,2,3,6,7,8-HxCDF-13C	2.00	92
2,3,4,7,8-PeCDF	ND	----	1.00	2,3,4,6,7,8-HxCDF-13C	2.00	87
Total PeCDF	1.10	----	1.00 J	1,2,3,7,8,9-HxCDF-13C	2.00	91
				1,2,3,4,7,8-HxCDD-13C	2.00	88
1,2,3,7,8-PeCDD	ND	----	1.00	1,2,3,6,7,8-HxCDD-13C	2.00	78
Total PeCDD	ND	----	1.00	1,2,3,4,6,7,8-HpCDF-13C	2.00	67
				1,2,3,4,7,8,9-HpCDF-13C	2.00	55
1,2,3,4,7,8-HxCDF	ND	----	1.00	1,2,3,4,6,7,8-HpCDD-13C	2.00	71
1,2,3,6,7,8-HxCDF	ND	----	1.00	OCDD-13C	4.00	54
2,3,4,6,7,8-HxCDF	ND	----	1.00			
1,2,3,7,8,9-HxCDF	ND	----	1.00	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	1.00	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	1.00	2,3,7,8-TCDD-37Cl4	0.20	83
1,2,3,6,7,8-HxCDD	ND	----	1.00			
1,2,3,7,8,9-HxCDD	ND	----	1.00			
Total HxCDD	ND	----	1.00			
1,2,3,4,6,7,8-HpCDF	1.20	----	1.00 J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	1.00	Equivalence: 0.091 ng/Kg		
Total HpCDF	1.20	----	1.00 J	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	1.30	----	1.00 J			
Total HpCDD	2.70	----	1.00 J			
OCDF	ND	----	2.00			
OCDD	9.20	----	2.00 J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).  
EMPC = Estimated Maximum Possible Concentration  
RL = Reporting Limit.

ND = Not Detected  
NA = Not Applicable  
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.  
J = Value below calibration range

## REPORT OF LABORATORY ANALYSIS

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### Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	0702344-03		
Lab Sample ID	1047221003		
Filename	P70306A_12		
Injected By	CVS		
Total Amount Extracted	14.6 g	Matrix	Soil
% Moisture	14.6	Dilution	NA
Dry Weight Extracted	12.4 g	Collected	02/28/2007
ICAL Date	02/28/2007	Received	03/01/2007
CCal Filename(s)	P70306A_03 & P70306A_18	Extracted	03/02/2007
Method Blank ID	BLANK-12388	Analyzed	03/06/2007 21:36

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.16	2,3,7,8-TCDF-13C	2.00	95
Total TCDF	ND	----	0.16	2,3,7,8-TCDD-13C	2.00	88
				1,2,3,7,8-PeCDF-13C	2.00	87
2,3,7,8-TCDD	ND	----	0.16	2,3,4,7,8-PeCDF-13C	2.00	88
Total TCDD	ND	----	0.16	1,2,3,7,8-PeCDD-13C	2.00	95
				1,2,3,4,7,8-HxCDF-13C	2.00	118
1,2,3,7,8-PeCDF	ND	----	0.80	1,2,3,6,7,8-HxCDF-13C	2.00	99
2,3,4,7,8-PeCDF	ND	----	0.80	2,3,4,6,7,8-HxCDF-13C	2.00	95
Total PeCDF	ND	----	0.80	1,2,3,7,8,9-HxCDF-13C	2.00	98
				1,2,3,4,7,8-HxCDD-13C	2.00	96
1,2,3,7,8-PeCDD	ND	----	0.80	1,2,3,6,7,8-HxCDD-13C	2.00	83
Total PeCDD	ND	----	0.80	1,2,3,4,6,7,8-HpCDF-13C	2.00	69
				1,2,3,4,7,8,9-HpCDF-13C	2.00	56
1,2,3,4,7,8-HxCDF	ND	----	0.80	1,2,3,4,6,7,8-HpCDD-13C	2.00	73
1,2,3,6,7,8-HxCDF	ND	----	0.80	OCDD-13C	4.00	58
2,3,4,6,7,8-HxCDF	ND	----	0.80			
1,2,3,7,8,9-HxCDF	ND	----	0.80	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.80	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.80	2,3,7,8-TCDD-37Cl4	0.20	90
1,2,3,6,7,8-HxCDD	ND	----	0.80			
1,2,3,7,8,9-HxCDD	ND	----	0.80			
Total HxCDD	ND	----	0.80			
1,2,3,4,6,7,8-HpCDF	ND	----	0.80	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.80	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	----	0.80	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	0.80			
Total HpCDD	ND	----	0.80			
OCDF	ND	----	1.60			
OCDD	ND	----	1.60			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).  
EMPC = Estimated Maximum Possible Concentration  
RL = Reporting Limit.

ND = Not Detected  
NA = Not Applicable  
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

## REPORT OF LABORATORY ANALYSIS

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### Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	0702344-04			
Lab Sample ID	1047221004			
Filename	P70306A_13			
Injected By	CVS			
Total Amount Extracted	11.6 g	Matrix	Soil	
% Moisture	12.4	Dilution	NA	
Dry Weight Extracted	10.1 g	Collected	02/28/2007	
ICAL Date	02/28/2007	Received	03/01/2007	
CCal Filename(s)	P70306A_03 & P70306A_18	Extracted	03/02/2007	
Method Blank ID	BLANK-12388	Analyzed	03/06/2007 22:24	

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	2.2	----	0.20	2,3,7,8-TCDF-13C	2.00	98
Total TCDF	56.0	----	0.20	2,3,7,8-TCDD-13C	2.00	88
				1,2,3,7,8-PeCDF-13C	2.00	88
2,3,7,8-TCDD	ND	----	0.20	2,3,4,7,8-PeCDF-13C	2.00	88
Total TCDD	4.2	----	0.20	1,2,3,7,8-PeCDD-13C	2.00	96
				1,2,3,4,7,8-HxCDF-13C	2.00	122
1,2,3,7,8-PeCDF	1.4	----	0.99 J	1,2,3,6,7,8-HxCDF-13C	2.00	100
2,3,4,7,8-PeCDF	7.4	----	0.99	2,3,4,6,7,8-HxCDF-13C	2.00	97
Total PeCDF	89.0	----	0.99	1,2,3,7,8,9-HxCDF-13C	2.00	89
				1,2,3,4,7,8-HxCDD-13C	2.00	98
1,2,3,7,8-PeCDD	ND	----	0.99	1,2,3,6,7,8-HxCDD-13C	2.00	84
Total PeCDD	1.8	----	0.99 J	1,2,3,4,6,7,8-HpCDF-13C	2.00	74
				1,2,3,4,7,8,9-HpCDF-13C	2.00	62
1,2,3,4,7,8-HxCDF	----	11	0.99 E	1,2,3,4,6,7,8-HpCDD-13C	2.00	78
1,2,3,6,7,8-HxCDF	1.8	----	0.99 J	OCDD-13C	4.00	61
2,3,4,6,7,8-HxCDF	3.5	----	0.99 J			
1,2,3,7,8,9-HxCDF	ND	----	0.99	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	38.0	----	0.99	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.99	2,3,7,8-TCDD-37Cl4	0.20	89
1,2,3,6,7,8-HxCDD	ND	----	0.99			
1,2,3,7,8,9-HxCDD	ND	----	0.99			
Total HxCDD	6.0	----	0.99			
1,2,3,4,6,7,8-HpCDF	6.2	----	0.99	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.99	Equivalence: 4.6 ng/Kg		
Total HpCDF	9.5	----	0.99	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	3.8	----	0.99 J			
Total HpCDD	7.1	----	0.99			
OCDF	5.4	----	2.00 J			
OCDD	17.0	----	2.00			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).  
EMPC = Estimated Maximum Possible Concentration  
RL = Reporting Limit.

ND = Not Detected  
NA = Not Applicable  
NC = Not Calculated

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## REPORT OF LABORATORY ANALYSIS

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### Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	0702344-05			
Lab Sample ID	1047221005			
Filename	P70306B_02			
Injected By	CVS			
Total Amount Extracted	15.0 g	Matrix	Soil	
% Moisture	16.2	Dilution	NA	
Dry Weight Extracted	12.6 g	Collected	02/28/2007	
ICAL Date	02/28/2007	Received	03/01/2007	
CCal Filename(s)	P70306A_18 & P70306B_12	Extracted	03/02/2007	
Method Blank ID	BLANK-12388	Analyzed	03/07/2007 04:47	

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.18	----	0.16 J	2,3,7,8-TCDF-13C	2.00	91
Total TCDF	0.46	----	0.16 J	2,3,7,8-TCDD-13C	2.00	82
				1,2,3,7,8-PeCDF-13C	2.00	82
2,3,7,8-TCDD	ND	----	0.16	2,3,4,7,8-PeCDF-13C	2.00	84
Total TCDD	0.17	----	0.16 J	1,2,3,7,8-PeCDD-13C	2.00	90
				1,2,3,4,7,8-HxCDF-13C	2.00	113
1,2,3,7,8-PeCDF	ND	----	0.79	1,2,3,6,7,8-HxCDF-13C	2.00	97
2,3,4,7,8-PeCDF	ND	----	0.79	2,3,4,6,7,8-HxCDF-13C	2.00	95
Total PeCDF	ND	----	0.79	1,2,3,7,8,9-HxCDF-13C	2.00	94
				1,2,3,4,7,8-HxCDD-13C	2.00	95
1,2,3,7,8-PeCDD	ND	----	0.79	1,2,3,6,7,8-HxCDD-13C	2.00	81
Total PeCDD	ND	----	0.79	1,2,3,4,6,7,8-HpCDF-13C	2.00	73
				1,2,3,4,7,8,9-HpCDF-13C	2.00	61
1,2,3,4,7,8-HxCDF	ND	----	0.79	1,2,3,4,6,7,8-HpCDD-13C	2.00	77
1,2,3,6,7,8-HxCDF	ND	----	0.79	OCDD-13C	4.00	98 *
2,3,4,6,7,8-HxCDF	ND	----	0.79			
1,2,3,7,8,9-HxCDF	ND	----	0.79	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.79	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.79	2,3,7,8-TCDD-37Cl4	0.20	83
1,2,3,6,7,8-HxCDD	ND	----	0.79			
1,2,3,7,8,9-HxCDD	ND	----	0.79			
Total HxCDD	ND	----	0.79			
1,2,3,4,6,7,8-HpCDF	ND	----	0.79	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.79	Equivalence: 0.021 ng/Kg		
Total HpCDF	ND	----	0.79	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	0.79			
Total HpCDD	ND	----	0.79			
OCDF	ND	----	1.60			
OCDD	3.00	----	1.60 J			

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## REPORT OF LABORATORY ANALYSIS

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### Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	0702344-06			
Lab Sample ID	1047221006			
Filename	P70306B_06			
Injected By	CVS			
Total Amount Extracted	16.4 g	Matrix	Soil	
% Moisture	37.7	Dilution	NA	
Dry Weight Extracted	10.2 g	Collected	02/28/2007	
ICAL Date	02/28/2007	Received	03/01/2007	
CCal Filename(s)	P70306A_18 & P70306B_12	Extracted	03/02/2007	
Method Blank ID	BLANK-12388	Analyzed	03/07/2007 07:58	

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	4.20	----	0.22	A	2,3,7,8-TCDF-13C	2.00	83
Total TCDF	35.00	----	0.20		2,3,7,8-TCDD-13C	2.00	76
					1,2,3,7,8-PeCDF-13C	2.00	69
2,3,7,8-TCDD	0.49	----	0.20	J	2,3,4,7,8-PeCDF-13C	2.00	61
Total TCDD	21.00	----	0.20		1,2,3,7,8-PeCDD-13C	2.00	71
					1,2,3,4,7,8-HxCDF-13C	2.00	118
1,2,3,7,8-PeCDF	-----	1.8	0.98	E	1,2,3,6,7,8-HxCDF-13C	2.00	83
2,3,4,7,8-PeCDF	8.20	----	0.98		2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	110.00	----	0.98		1,2,3,7,8,9-HxCDF-13C	2.00	71
					1,2,3,4,7,8-HxCDD-13C	2.00	95
1,2,3,7,8-PeCDD	3.80	----	0.98	J	1,2,3,6,7,8-HxCDD-13C	2.00	63
Total PeCDD	38.00	----	0.98		1,2,3,4,6,7,8-HpCDF-13C	2.00	42
					1,2,3,4,7,8,9-HpCDF-13C	2.00	27 P
1,2,3,4,7,8-HxCDF	3.50	----	0.98	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	39 P
1,2,3,6,7,8-HxCDF	4.10	----	0.98	J	OCDD-13C	4.00	34 P*
2,3,4,6,7,8-HxCDF	-----	6.4	0.98	E			
1,2,3,7,8,9-HxCDF	2.20	----	0.98	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	310.00	----	0.98		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	3.10	----	0.98	J	2,3,7,8-TCDD-37Cl4	0.20	77
1,2,3,6,7,8-HxCDD	49.00	----	0.98				
1,2,3,7,8,9-HxCDD	17.00	----	0.98				
Total HxCDD	380.00	----	0.98				
1,2,3,4,6,7,8-HpCDF	750.00	----	0.98		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	3.60	----	0.98	J	Equivalence: 25 ng/Kg		
Total HpCDF	1200.00	----	0.98		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	170.00	----	0.98				
Total HpCDD	310.00	----	0.98				
OCDF	390.00	----	2.00				
OCDD	680.00	----	2.00				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).  
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NC = Not Calculated

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A = Reporting Limit based on signal to noise  
P = Recovery outside target range  
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## REPORT OF LABORATORY ANALYSIS

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### Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	0702344-07			
Lab Sample ID	1047221007			
Filename	P70306B_03			
Injected By	CVS			
Total Amount Extracted	13.2 g	Matrix	Soil	
% Moisture	17.9	Dilution	NA	
Dry Weight Extracted	10.9 g	Collected	02/28/2007	
ICAL Date	02/28/2007	Received	03/01/2007	
CCal Filename(s)	P70306A_18 & P70306B_12	Extracted	03/02/2007	
Method Blank ID	BLANK-12388	Analyzed	03/07/2007 05:34	

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	1.5	----	0.18	2,3,7,8-TCDF-13C	2.00	98
Total TCDF	18.0	----	0.18	2,3,7,8-TCDD-13C	2.00	87
				1,2,3,7,8-PeCDF-13C	2.00	89
2,3,7,8-TCDD	ND	----	0.18	2,3,4,7,8-PeCDF-13C	2.00	91
Total TCDD	2.0	----	0.18	1,2,3,7,8-PeCDD-13C	2.00	96
				1,2,3,4,7,8-HxCDF-13C	2.00	120
1,2,3,7,8-PeCDF	1.0	----	0.92 J	1,2,3,6,7,8-HxCDF-13C	2.00	99
2,3,4,7,8-PeCDF	2.2	----	0.92 J	2,3,4,6,7,8-HxCDF-13C	2.00	98
Total PeCDF	25.0	----	0.92	1,2,3,7,8,9-HxCDF-13C	2.00	93
				1,2,3,4,7,8-HxCDD-13C	2.00	98
1,2,3,7,8-PeCDD	ND	----	0.92	1,2,3,6,7,8-HxCDD-13C	2.00	82
Total PeCDD	1.1	----	0.92 J	1,2,3,4,6,7,8-HpCDF-13C	2.00	74
				1,2,3,4,7,8,9-HpCDF-13C	2.00	62
1,2,3,4,7,8-HxCDF	----	3.0	0.92 E	1,2,3,4,6,7,8-HpCDD-13C	2.00	77
1,2,3,6,7,8-HxCDF	1.0	----	0.92 J	OCDD-13C	4.00	99 *
2,3,4,6,7,8-HxCDF	1.6	----	0.92 J			
1,2,3,7,8,9-HxCDF	ND	----	0.92	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	13.0	----	0.92	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.92	2,3,7,8-TCDD-37Cl4	0.20	91
1,2,3,6,7,8-HxCDD	ND	----	0.92			
1,2,3,7,8,9-HxCDD	ND	----	0.92			
Total HxCDD	2.7	----	0.92 J			
1,2,3,4,6,7,8-HpCDF	5.8	----	0.92	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.92	Equivalence: 1.7 ng/Kg		
Total HpCDF	8.0	----	0.92	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	4.3	----	0.92 J			
Total HpCDD	8.4	----	0.92			
OCDF	18.0	----	1.80			
OCDD	32.0	----	1.80			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).  
EMPC = Estimated Maximum Possible Concentration  
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### Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	0702344-08			
Lab Sample ID	1047221008			
Filename	P70306B_04			
Injected By	CVS			
Total Amount Extracted	14.2 g	Matrix	Soil	
% Moisture	14.1	Dilution	NA	
Dry Weight Extracted	12.2 g	Collected	02/28/2007	
ICAL Date	02/28/2007	Received	03/01/2007	
CCal Filename(s)	P70306A_18 & P70306B_12	Extracted	03/02/2007	
Method Blank ID	BLANK-12388	Analyzed	03/07/2007 06:22	

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.58	----	0.190	JA	2,3,7,8-TCDF-13C	2.00	82
Total TCDF	30.00	----	0.16		2,3,7,8-TCDD-13C	2.00	75
					1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	ND	----	0.16		2,3,4,7,8-PeCDF-13C	2.00	80
Total TCDD	0.67	----	0.16	J	1,2,3,7,8-PeCDD-13C	2.00	85
					1,2,3,4,7,8-HxCDF-13C	2.00	100
1,2,3,7,8-PeCDF	ND	----	0.82		1,2,3,6,7,8-HxCDF-13C	2.00	86
2,3,4,7,8-PeCDF	17.00	----	0.82		2,3,4,6,7,8-HxCDF-13C	2.00	84
Total PeCDF	180.00	----	0.82		1,2,3,7,8,9-HxCDF-13C	2.00	86
					1,2,3,4,7,8-HxCDD-13C	2.00	85
1,2,3,7,8-PeCDD	ND	----	0.82		1,2,3,6,7,8-HxCDD-13C	2.00	71
Total PeCDD	1.50	----	0.82	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	64
					1,2,3,4,7,8,9-HpCDF-13C	2.00	54
1,2,3,4,7,8-HxCDF	----	9.8	0.82	E	1,2,3,4,6,7,8-HpCDD-13C	2.00	69
1,2,3,6,7,8-HxCDF	2.30	----	0.82	J	OCDD-13C	4.00	87 *
2,3,4,6,7,8-HxCDF	6.50	----	0.82				
1,2,3,7,8,9-HxCDF	0.89	----	0.82	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	88.00	----	0.82		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.82		2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	ND	----	0.82				
1,2,3,7,8,9-HxCDD	ND	----	0.82				
Total HxCDD	3.80	----	0.82	J			
1,2,3,4,6,7,8-HpCDF	2.30	----	0.82	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.82		Equivalence: 9.4 ng/Kg		
Total HpCDF	5.60	----	0.82		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	0.93	----	0.82	J			
Total HpCDD	1.90	----	0.82	J			
OCDF	ND	----	1.60				
OCDD	3.90	----	1.60	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).  
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J = Value below calibration range  
A = Reporting Limit based on signal to noise  
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### Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	0702344-09		
Lab Sample ID	1047221009		
Filename	P70306B_05		
Injected By	CVS		
Total Amount Extracted	12.3 g	Matrix	Soil
% Moisture	4.6	Dilution	NA
Dry Weight Extracted	11.7 g	Collected	02/28/2007
ICAL Date	02/28/2007	Received	03/01/2007
CCal Filename(s)	P70306A_18 & P70306B_12	Extracted	03/02/2007
Method Blank ID	BLANK-12388	Analyzed	03/07/2007 07:10

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.23	----	0.17 J	2,3,7,8-TCDF-13C	2.00	93
Total TCDF	1.60	----	0.17	2,3,7,8-TCDD-13C	2.00	84
				1,2,3,7,8-PeCDF-13C	2.00	86
2,3,7,8-TCDD	ND	----	0.17	2,3,4,7,8-PeCDF-13C	2.00	89
Total TCDD	ND	----	0.17	1,2,3,7,8-PeCDD-13C	2.00	96
				1,2,3,4,7,8-HxCDF-13C	2.00	113
1,2,3,7,8-PeCDF	ND	----	0.85	1,2,3,6,7,8-HxCDF-13C	2.00	97
2,3,4,7,8-PeCDF	ND	----	0.85	2,3,4,6,7,8-HxCDF-13C	2.00	97
Total PeCDF	1.50	----	0.85 J	1,2,3,7,8,9-HxCDF-13C	2.00	102
				1,2,3,4,7,8-HxCDD-13C	2.00	94
1,2,3,7,8-PeCDD	ND	----	0.85	1,2,3,6,7,8-HxCDD-13C	2.00	84
Total PeCDD	ND	----	0.85	1,2,3,4,6,7,8-HpCDF-13C	2.00	75
				1,2,3,4,7,8,9-HpCDF-13C	2.00	64
1,2,3,4,7,8-HxCDF	ND	----	0.85	1,2,3,4,6,7,8-HpCDD-13C	2.00	80
1,2,3,6,7,8-HxCDF	ND	----	0.85	OCDD-13C	4.00	100 *
2,3,4,6,7,8-HxCDF	ND	----	0.85			
1,2,3,7,8,9-HxCDF	ND	----	0.85	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.94	----	0.85 J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.85	2,3,7,8-TCDD-37Cl4	0.20	81
1,2,3,6,7,8-HxCDD	ND	----	0.85			
1,2,3,7,8,9-HxCDD	ND	----	0.85			
Total HxCDD	ND	----	0.85			
1,2,3,4,6,7,8-HpCDF	1.70	----	0.85 J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.85	Equivalence: 0.044 ng/Kg		
Total HpCDF	1.70	----	0.85 J	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	0.85			
Total HpCDD	ND	----	0.85			
OCDF	ND	----	1.70			
OCDD	3.90	----	1.70 J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).  
EMPC = Estimated Maximum Possible Concentration  
RL = Reporting Limit.

ND = Not Detected  
NA = Not Applicable  
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Value below calibration range

\* = See Discussion

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## **Appendix C**

### QC and Calibration Results Summary



### Method 8290 Blank Analysis Results

Client - ESS Laboratory

Lab Sample ID	BLANK-12388	Matrix	Solid
Filename	P70307A_05	Dilution	NA
Total Amount Extracted	20.4 g	Extracted	03/02/2007
ICAL Date	02/28/2007	Analyzed	03/07/2007 17:18
CCal Filename(s)	P70307A_02 & P70307A_07	Injected By	CVS

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.098	2,3,7,8-TCDF-13C	2.00	99
Total TCDF	ND	----	0.098	2,3,7,8-TCDD-13C	2.00	89
				1,2,3,7,8-PeCDF-13C	2.00	87
2,3,7,8-TCDD	ND	----	0.098	2,3,4,7,8-PeCDF-13C	2.00	88
Total TCDD	ND	----	0.098	1,2,3,7,8-PeCDD-13C	2.00	92
				1,2,3,4,7,8-HxCDF-13C	2.00	123
1,2,3,7,8-PeCDF	ND	----	0.490	1,2,3,6,7,8-HxCDF-13C	2.00	104
2,3,4,7,8-PeCDF	ND	----	0.490	2,3,4,6,7,8-HxCDF-13C	2.00	89
Total PeCDF	ND	----	0.490	1,2,3,7,8,9-HxCDF-13C	2.00	97
				1,2,3,4,7,8-HxCDD-13C	2.00	95
1,2,3,7,8-PeCDD	ND	----	0.490	1,2,3,6,7,8-HxCDD-13C	2.00	83
Total PeCDD	ND	----	0.490	1,2,3,4,6,7,8-HpCDF-13C	2.00	59
				1,2,3,4,7,8,9-HpCDF-13C	2.00	53 *
1,2,3,4,7,8-HxCDF	ND	----	0.490	1,2,3,4,6,7,8-HpCDD-13C	2.00	55
1,2,3,6,7,8-HxCDF	ND	----	0.490	OCDD-13C	4.00	59 *
2,3,4,6,7,8-HxCDF	ND	----	0.490			
1,2,3,7,8,9-HxCDF	ND	----	0.490	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.490	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.490	2,3,7,8-TCDD-37Cl4	0.20	96
1,2,3,6,7,8-HxCDD	ND	----	0.490			
1,2,3,7,8,9-HxCDD	ND	----	0.490			
Total HxCDD	ND	----	0.490			
1,2,3,4,6,7,8-HpCDF	ND	----	0.490	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.490	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	----	0.490	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	0.490			
Total HpCDD	ND	----	0.490			
OCDF	ND	----	0.980			
OCDD	ND	----	0.980			

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

EMPC = Estimated Maximum Possible Concentration

RL = Reporting Limit

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

\* = See Discussion

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### Method 8290 Laboratory Control Spike Results

Client - ESS Laboratory

Lab Sample ID	LCS-12389	Matrix	Solid
Filename	U70308A_07	Dilution	NA
Total Amount Extracted	20.4 g	Extracted	03/02/2007
ICAL Date	01/27/2007	Analyzed	03/08/2007 13:28
CCal Filename(s)	U70307B_16 & U70308A_08	Injected By	CVS
Method Blank ID	BLANK-12388		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.20	102	2,3,7,8-TCDF-13C	2.00	86
Total TCDF				2,3,7,8-TCDD-13C	2.00	81
				1,2,3,7,8-PeCDF-13C	2.00	81
2,3,7,8-TCDD	0.20	0.22	111	2,3,4,7,8-PeCDF-13C	2.00	82
Total TCDD				1,2,3,7,8-PeCDD-13C	2.00	92
				1,2,3,4,7,8-HxCDF-13C	2.00	85
1,2,3,7,8-PeCDF	1.00	1.18	118	1,2,3,6,7,8-HxCDF-13C	2.00	81
2,3,4,7,8-PeCDF	1.00	1.11	111	2,3,4,6,7,8-HxCDF-13C	2.00	79
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.00	78
				1,2,3,4,7,8-HxCDD-13C	2.00	81
1,2,3,7,8-PeCDD	1.00	1.05	105	1,2,3,6,7,8-HxCDD-13C	2.00	79
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.00	75
				1,2,3,4,7,8,9-HpCDF-13C	2.00	60
1,2,3,4,7,8-HxCDF	1.00	1.06	106	1,2,3,4,6,7,8-HpCDD-13C	2.00	79
1,2,3,6,7,8-HxCDF	1.00	1.06	106	OCDD-13C	4.00	65
2,3,4,6,7,8-HxCDF	1.00	1.06	106			
1,2,3,7,8,9-HxCDF	1.00	1.08	108	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.16	116	2,3,7,8-TCDD-37Cl4	0.20	92
1,2,3,6,7,8-HxCDD	1.00	1.22	122			
1,2,3,7,8,9-HxCDD	1.00	1.16	116			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.00	1.16	116			
1,2,3,4,7,8,9-HpCDF	1.00	1.23	123			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.00	1.00	100			
Total HpCDD						
OCDF	2.00	1.85	93			
OCDD	2.00	2.05	102			

Qs = Quantity Spiked  
 Qm = Quantity Measured  
 Rec. = Recovery (Expressed as Percent)  
 P = Recovery outside of target range  
 X = Background subtracted value  
 Nn = Value obtained from additional analysis  
 NA = Not Applicable  
 \* = See Discussion

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### Method 8290 Spiked Sample Report

Client - ESS Laboratory

Client's Sample ID	0702344-01-MS		
Lab Sample ID	1047221001-MS		
Filename	P70306A_15	Matrix	Soil
Total Amount Extracted	12.1 g	Dilution	NA
ICAL Date	02/28/2007	Extracted	03/02/2007
CCal Filename(s)	P70306A_03 & P70306A_18	Analyzed	03/07/2007 00:00
Method Blank ID	BLANK-12388	Injected By	CVS

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.24	120	2,3,7,8-TCDF-13C	2.00	85
				2,3,7,8-TCDD-13C	2.00	79
				1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	0.20	0.23	115	2,3,4,7,8-PeCDF-13C	2.00	76
				1,2,3,7,8-PeCDD-13C	2.00	82
				1,2,3,4,7,8-HxCDF-13C	2.00	105
1,2,3,7,8-PeCDF	1.00	1.35	135	1,2,3,6,7,8-HxCDF-13C	2.00	82
2,3,4,7,8-PeCDF	1.00	1.27	127	2,3,4,6,7,8-HxCDF-13C	2.00	84
1,2,3,7,8-PeCDD	1.00	1.10	110	1,2,3,7,8,9-HxCDF-13C	2.00	84
				1,2,3,4,7,8-HxCDD-13C	2.00	85
				1,2,3,6,7,8-HxCDD-13C	2.00	71
				1,2,3,4,6,7,8-HpCDF-13C	2.00	57
				1,2,3,4,7,8,9-HpCDF-13C	2.00	45
1,2,3,4,7,8-HxCDF	1.00	1.13	113	1,2,3,4,6,7,8-HpCDD-13C	2.00	58
1,2,3,6,7,8-HxCDF	1.00	1.24	124	OCDD-13C	4.00	47
2,3,4,6,7,8-HxCDF	1.00	1.19	119	1,2,3,4-TCDD-13C	2.00	NA
1,2,3,7,8,9-HxCDF	1.00	1.21	121			
1,2,3,4,7,8-HxCDD	1.00	1.21	121	1,2,3,7,8,9-HxCDD-13C	2.00	NA
				2,3,7,8-TCDD-37Cl4	0.20	87
				1,2,3,6,7,8-HxCDD	1.00	1.23
1,2,3,7,8,9-HxCDD	1.00	1.17	117			
1,2,3,4,6,7,8-HpCDF	1.00	1.20	120			
1,2,3,4,7,8,9-HpCDF	1.00	1.25	125			
1,2,3,4,6,7,8-HpCDD	1.00	0.99	99			
OCDF	2.00	2.09	104			
OCDD	2.00	2.23	112			

Qs = Quantity Spiked                      Qm = Quantity Measured                      Rec. = Recovery (Expressed as Percent)  
Results reported on a dry weight basis and are valid to no more than 2 significant figures.

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### Method 8290 Spiked Sample Report

Client - ESS Laboratory

Client's Sample ID	0702344-01-MSD		
Lab Sample ID	1047221001-MSD		
Filename	P70306A_16	Matrix	Soil
Total Amount Extracted	12.0 g	Dilution	NA
ICAL Date	02/28/2007	Extracted	03/02/2007
CCal Filename(s)	P70306A_03 & P70306A_18	Analyzed	03/07/2007 00:47
Method Blank ID	BLANK-12388	Injected By	CVS

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.24	118	2,3,7,8-TCDF-13C	2.00	84
				2,3,7,8-TCDD-13C	2.00	77
				1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	0.20	0.23	113	2,3,4,7,8-PeCDF-13C	2.00	79
				1,2,3,7,8-PeCDD-13C	2.00	86
				1,2,3,4,7,8-HxCDF-13C	2.00	102
1,2,3,7,8-PeCDF	1.00	1.34	134	1,2,3,6,7,8-HxCDF-13C	2.00	85
2,3,4,7,8-PeCDF	1.00	1.26	126	2,3,4,6,7,8-HxCDF-13C	2.00	84
1,2,3,7,8-PeCDD	1.00	1.06	106	1,2,3,7,8,9-HxCDF-13C	2.00	85
				1,2,3,4,7,8-HxCDD-13C	2.00	86
				1,2,3,6,7,8-HxCDD-13C	2.00	71
				1,2,3,4,6,7,8-HpCDF-13C	2.00	59
				1,2,3,4,7,8,9-HpCDF-13C	2.00	50
1,2,3,4,7,8-HxCDF	1.00	1.12	112	1,2,3,4,6,7,8-HpCDD-13C	2.00	63
1,2,3,6,7,8-HxCDF	1.00	1.23	123	OCDD-13C	4.00	50
2,3,4,6,7,8-HxCDF	1.00	1.16	116	1,2,3,4-TCDD-13C	2.00	NA
1,2,3,7,8,9-HxCDF	1.00	1.16	116			
1,2,3,4,7,8-HxCDD	1.00	1.20	120	1,2,3,7,8,9-HxCDD-13C	2.00	NA
				2,3,7,8-TCDD-37Cl4	0.20	81
				1,2,3,6,7,8-HxCDD	1.00	1.23
1,2,3,7,8,9-HxCDD	1.00	1.17	117			
1,2,3,4,6,7,8-HpCDF	1.00	1.20	120			
1,2,3,4,7,8,9-HpCDF	1.00	1.24	124			
1,2,3,4,6,7,8-HpCDD	1.00	1.00	100			
OCDF	2.00	2.35	117			
OCDD	2.00	2.17	109			

Qs = Quantity Spiked                      Qm = Quantity Measured                      Rec. = Recovery (Expressed as Percent)  
Results reported on a dry weight basis and are valid to no more than 2 significant figures.

## REPORT OF LABORATORY ANALYSIS

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**Method 8290 Spike Sample Results**

Client - ESS Laboratory

Client Sample ID	0702344-01	Sample Filename	P70306A_10	Dry Weights	
Lab Sample ID	1047221001	MS Filename	P70306A_15	Sample Amount	10.7 g
MS ID	1047221001-MS	MSD Filename	P70306A_16	MS Amount	10.8 g
MSD ID	1047221001-MSD			MSD Amount	10.7 g

Analyte	Sample Conc. ng/Kg	MS/MSD Qs (ng)	MS Qm (ng)	MSD Qm (ng)	RPD	Background Subtracted		
						MS % Rec.	MSD % Rec.	RPD
2,3,7,8-TCDF	0.541	0.20	0.24	0.24	1.6	118	116	1.7
2,3,7,8-TCDD	0.000	0.20	0.23	0.23	2.2	115	113	2.2
1,2,3,7,8-PeCDF	0.000	1.00	1.35	1.34	1.1	135	134	1.1
2,3,4,7,8-PeCDF	0.000	1.00	1.27	1.26	1.3	127	126	1.3
1,2,3,7,8-PeCDD	0.000	1.00	1.10	1.06	3.7	110	106	3.7
1,2,3,4,7,8-HxCDF	0.000	1.00	1.13	1.12	0.9	113	112	0.9
1,2,3,6,7,8-HxCDF	0.000	1.00	1.24	1.23	0.3	124	123	0.3
2,3,4,6,7,8-HxCDF	0.000	1.00	1.19	1.16	2.1	119	116	2.1
1,2,3,7,8,9-HxCDF	0.000	1.00	1.21	1.16	4.3	121	116	4.3
1,2,3,4,7,8-HxCDD	0.000	1.00	1.21	1.20	1.6	121	120	1.6
1,2,3,6,7,8-HxCDD	0.000	1.00	1.23	1.23	0.1	123	123	0.1
1,2,3,7,8,9-HxCDD	0.000	1.00	1.17	1.17	0.6	117	117	0.6
1,2,3,4,6,7,8-HpCDF	0.000	1.00	1.20	1.20	0.4	120	120	0.4
1,2,3,4,7,8,9-HpCDF	0.000	1.00	1.25	1.24	0.6	125	124	0.6
1,2,3,4,6,7,8-HpCDD	1.006	1.00	0.99	1.00	0.6	98	99	0.6
OCDF	0.000	2.00	2.09	2.35	11.8	104	117	11.8
OCDD	6.896	2.00	2.23	2.17	2.6	108	105	2.7

**Definitions**

MS = Matrix Spike  
MSD = Matrix Spike Duplicate  
Qm = Quantity Measured  
Qs = Quantity Spiked  
% Rec. = Percent Recovery  
RPD = Relative Percent Difference  
NA = Not Applicable

CDD = Chlorinated dibenzo-p-dioxin  
CDF = Chlorinated dibenzo-p-furan  
T = Tetra  
Pe = Penta  
Hx = Hexa  
Hp = Hepta  
O = Octa

**Initial Calibration (ICAL) - Response Factor Summary  
Method 1613/8290**

ICAL ID	U70127	Data Files:	Time	Injected
Calibration Date	01/27/2007	CS-1 U70127A_11	23:22	BAL
Instrument	10MSHR06 (U)	CS-2 U70127A_10	22:33	BAL
Column Phase	DB-5MS 0.25mm	CS-3 U70127A_09	21:44	BAL
Column ID No.	US6667215H	CS-4 U70127A_13	01:00	BAL
		CS-5 U70127A_12	00:11	BAL

Isomer	CS-1	CS-2	CS-3	CS-4	CS-5	Ave RF	%RSD
2,3,7,8-TCDF	1.2003	1.1859	1.1349	1.1532	1.1543	1.1657	2.29
2,3,7,8-TCDD	1.0082	1.0237	1.0266	0.9972	0.9819	1.0075	1.85
1,2,3,7,8-PeCDF	1.0475	1.0349	1.0247	1.0729	1.0441	1.0448	1.72
2,3,4,7,8-PeCDF	1.0765	1.0878	1.0491	1.0898	1.0858	1.0778	1.56
1,2,3,7,8-PeCDD	1.0370	1.0551	1.0438	1.0431	1.0454	1.0449	0.63
1,2,3,4,7,8-HxCDF	1.2397	1.2493	1.2025	1.2499	1.2371	1.2357	1.57
1,2,3,6,7,8-HxCDF	1.1629	1.1570	1.1547	1.1934	1.1935	1.1723	1.67
2,3,4,6,7,8-HxCDF	1.2268	1.1791	1.1232	1.2112	1.2094	1.1899	3.46
1,2,3,7,8,9-HxCDF	1.1711	1.1592	1.1616	1.1792	1.1878	1.1718	1.02
1,2,3,4,7,8-HxCDD	1.0856	1.0892	1.0539	1.0573	1.0561	1.0684	1.63
1,2,3,6,7,8-HxCDD	0.9925	1.0057	0.9722	0.9801	0.9586	0.9818	1.85
1,2,3,7,8,9-HxCDD	1.0258	1.0587	1.0336	1.0973	1.0204	1.0471	3.02
1,2,3,4,6,7,8-HpCDF	1.4612	1.3830	1.3888	1.3749	1.3664	1.3949	2.73
1,2,3,4,7,8,9-HpCDF	1.2845	1.2726	1.2252	1.2137	1.2658	1.2524	2.48
1,2,3,4,6,7,8-HpCDD	1.1827	1.2066	1.1512	1.1974	1.1629	1.1802	1.96
OCDF	1.4843	1.4548	1.3667	1.5044	1.4849	1.4590	3.74
OCDD	1.1058	1.1084	1.0683	1.1465	1.1259	1.1110	2.60
Total PeCDF	1.0620	1.0613	1.0369	1.0813	1.0650	1.0613	1.50
Total HxCDF	1.2001	1.1862	1.1605	1.2084	1.2069	1.1924	1.67
Total HxCDD	1.0346	1.0512	1.0199	1.0449	1.0117	1.0325	1.61
Total HpCDF	1.3729	1.3278	1.3070	1.2943	1.3161	1.3236	2.28
2,3,7,8-TCDF-13C	1.3634	1.3434	1.3591	1.3356	1.3672	1.3537	1.00
2,3,7,8-TCDD-13C	1.0154	1.0039	1.0156	1.0167	1.0514	1.0206	1.76
2,3,7,8-TCDD-37Cl4	1.1578	1.0972	1.0617	1.0649	1.1168	1.0997	3.62
1,2,3,7,8-PeCDF-13C	1.2857	1.2721	1.3003	1.2630	1.4036	1.3049	4.36
2,3,4,7,8-PeCDF-13C	1.2987	1.2879	1.3750	1.3068	1.4196	1.3376	4.27
1,2,3,7,8-PeCDD-13C	0.8103	0.8011	0.8277	0.8099	0.8912	0.8280	4.42
1,2,3,4,7,8-HxCDF-13C	1.1927	1.1404	1.1653	1.1057	1.1067	1.1422	3.30
1,2,3,6,7,8-HxCDF-13C	1.4767	1.4407	1.4579	1.4803	1.4734	1.4658	1.12
2,3,4,6,7,8-HxCDF-13C	1.3705	1.3401	1.3715	1.3399	1.3202	1.3484	1.64
1,2,3,7,8,9-HxCDF-13C	1.1693	1.1378	1.1248	1.1225	1.1198	1.1349	1.80
1,2,3,4,7,8-HxCDD-13C	0.8620	0.8502	0.8519	0.8384	0.8247	0.8454	1.69
1,2,3,6,7,8-HxCDD-13C	1.0966	1.0661	1.0906	1.1019	1.1373	1.0985	2.34
1,2,3,4,6,7,8-HpCDF-13C	0.9811	0.9717	0.9561	0.9654	0.9787	0.9706	1.05
1,2,3,4,7,8,9-HpCDF-13C	0.8901	0.8844	0.8762	0.8826	0.8605	0.8788	1.29
1,2,3,4,6,7,8-HpCDD-13C	0.7059	0.6743	0.7120	0.6896	0.6911	0.6946	2.14
OCDD-13C	0.6885	0.6821	0.6809	0.6944	0.6885	0.6869	0.80

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**Initial Calibration (ICAL) - Isotope Ratio Summary  
Method 1613/8290**

ICAL ID	U70127	Data Files:	Time	Injected
Calibration Date	01/27/2007	CS-1 U70127A_11	23:22	BAL
Instrument	10MSHR06 (U)	CS-2 U70127A_10	22:33	BAL
Column Phase	DB-5MS 0.25mm	CS-3 U70127A_09	21:44	BAL
Column ID No.	US6667215H	CS-4 U70127A_13	01:00	BAL
		CS-5 U70127A_12	00:11	BAL

Isomer	CS-1	CS-2	CS-3	CS-4	CS-5	Limits
2,3,7,8-TCDF	0.88	0.79	0.78	0.78	0.78	0.65 - 0.89
2,3,7,8-TCDD	0.83	0.81	0.74	0.78	0.78	0.65 - 0.89
1,2,3,7,8-PeCDF	1.52	1.50	1.55	1.57	1.56	1.32 - 1.78
2,3,4,7,8-PeCDF	1.54	1.59	1.55	1.55	1.56	1.32 - 1.78
1,2,3,7,8-PeCDD	0.59	0.59	0.61	0.62	0.63	0.52 - 0.70
1,2,3,4,7,8-HxCDF	1.25	1.25	1.27	1.30	1.26	1.05 - 1.43
1,2,3,6,7,8-HxCDF	1.34	1.20	1.27	1.25	1.26	1.05 - 1.43
2,3,4,6,7,8-HxCDF	1.21	1.31	1.30	1.23	1.32	1.05 - 1.43
1,2,3,7,8,9-HxCDF	1.32	1.25	1.28	1.28	1.27	1.05 - 1.43
1,2,3,4,7,8-HxCDD	1.22	1.27	1.25	1.25	1.25	1.05 - 1.43
1,2,3,6,7,8-HxCDD	1.23	1.19	1.25	1.25	1.25	1.05 - 1.43
1,2,3,7,8,9-HxCDD	1.32	1.24	1.24	1.25	1.26	1.05 - 1.43
1,2,3,4,6,7,8-HpCDF	1.02	1.01	1.05	1.03	1.04	0.88 - 1.20
1,2,3,4,7,8,9-HpCDF	1.05	1.07	1.03	1.02	1.02	0.88 - 1.20
1,2,3,4,6,7,8-HpCDD	1.07	1.08	1.05	1.08	1.03	0.88 - 1.20
OCDF	0.98	0.92	0.91	0.94	0.92	0.76 - 1.02
OCDD	0.90	0.92	0.89	0.89	0.89	0.76 - 1.02
1,2,3,4-TCDD-13C	0.79	0.79	0.79	0.80	0.79	0.65 - 0.89
1,2,3,7,8,9-HxCDD-13C	1.26	1.25	1.20	1.25	1.26	1.05 - 1.43
2,3,7,8-TCDF-13C	0.78	0.79	0.79	0.79	0.78	0.65 - 0.89
2,3,7,8-TCDD-13C	0.79	0.79	0.79	0.80	0.80	0.65 - 0.89
1,2,3,7,8-PeCDF-13C	1.60	1.59	1.60	1.58	1.61	1.32 - 1.78
2,3,4,7,8-PeCDF-13C	1.61	1.60	1.59	1.60	1.61	1.32 - 1.78
1,2,3,7,8-PeCDD-13C	1.58	1.56	1.57	1.60	1.59	1.32 - 1.78
1,2,3,4,7,8-HxCDF-13C	0.52	0.52	0.52	0.54	0.53	0.43 - 0.59
1,2,3,6,7,8-HxCDF-13C	0.54	0.53	0.53	0.54	0.55	0.43 - 0.59
2,3,4,6,7,8-HxCDF-13C	0.54	0.53	0.53	0.53	0.55	0.43 - 0.59
1,2,3,7,8,9-HxCDF-13C	0.54	0.54	0.53	0.55	0.55	0.43 - 0.59
1,2,3,4,7,8-HxCDD-13C	1.27	1.26	1.26	1.26	1.27	1.05 - 1.43
1,2,3,6,7,8-HxCDD-13C	1.26	1.24	1.27	1.26	1.27	1.05 - 1.43
1,2,3,4,6,7,8-HpCDF-13C	0.44	0.45	0.46	0.46	0.46	0.37 - 0.51
1,2,3,4,7,8,9-HpCDF-13C	0.44	0.46	0.45	0.45	0.46	0.37 - 0.51
1,2,3,4,6,7,8-HpCDD-13C	1.10	1.09	1.08	1.03	1.08	0.88 - 1.20
OCDD-13C	0.91	0.90	0.89	0.91	0.90	0.76 - 1.02

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**Initial Calibration (ICAL) - Response Factor Summary  
Method 1613/8290**

ICAL ID	P70228	Data Files:	Time	Injected
Calibration Date	02/28/2007	CS-1 P70228B_06	17:11	BAL
Instrument	10MSHR09 (P)	CS-2 P70228B_05	16:25	BAL
Column Phase	DB-5MS 0.25mm	CS-3 P70228B_04	15:28	BAL
Column ID No.	US5455214H	CS-4 P70228B_08	18:47	BAL
		CS-5 P70228B_07	17:59	BAL

Isomer	CS-1	CS-2	CS-3	CS-4	CS-5	Ave RF	%RSD
2,3,7,8-TCDF	0.9220	0.9478	0.8634	0.9620	0.9234	0.9237	4.08
2,3,7,8-TCDD	0.9030	0.9548	0.9792	0.9214	0.9370	0.9391	3.14
1,2,3,7,8-PeCDF	0.7710	0.8460	0.8227	0.8624	0.8215	0.8247	4.19
2,3,4,7,8-PeCDF	0.8317	0.8891	0.8673	0.9251	0.8543	0.8735	4.07
1,2,3,7,8-PeCDD	0.8992	0.9689	0.8924	0.9973	0.9364	0.9389	4.78
1,2,3,4,7,8-HxCDF	1.0561	1.0821	1.0186	1.1140	1.0372	1.0616	3.54
1,2,3,6,7,8-HxCDF	0.9272	1.0304	0.9464	1.0345	0.9748	0.9827	4.94
2,3,4,6,7,8-HxCDF	1.0053	1.0411	0.9548	1.0898	0.9746	1.0131	5.32
1,2,3,7,8,9-HxCDF	0.9623	1.0346	0.9750	1.0964	0.9751	1.0087	5.60
1,2,3,4,7,8-HxCDD	0.9387	0.9997	0.9194	0.9923	0.9414	0.9583	3.71
1,2,3,6,7,8-HxCDD	0.8677	0.9441	0.8709	0.9386	0.8525	0.8947	4.82
1,2,3,7,8,9-HxCDD	0.9379	1.0253	0.9220	1.0152	0.9279	0.9656	5.21
1,2,3,4,6,7,8-HpCDF	1.3245	1.4099	1.2987	1.4466	1.2999	1.3559	5.02
1,2,3,4,7,8,9-HpCDF	1.1679	1.2547	1.1186	1.2940	1.1447	1.1960	6.27
1,2,3,4,6,7,8-HpCDD	1.1180	1.1076	1.0337	1.1883	1.0602	1.1016	5.40
OCDF	0.8058	0.8957	0.8843	1.0865	1.0528	0.9450	12.65
OCDD	1.0584	1.0927	0.9827	1.1255	1.0017	1.0522	5.71
Total PeCDF	0.8013	0.8676	0.8450	0.8938	0.8379	0.8491	4.06
Total HxCDF	0.9877	1.0470	0.9737	1.0837	0.9904	1.0165	4.61
Total HxCDD	0.9147	0.9897	0.9041	0.9820	0.9072	0.9396	4.53
Total HpCDF	1.2462	1.3323	1.2087	1.3703	1.2223	1.2760	5.59
2,3,7,8-TCDF-13C	1.2010	1.2387	1.2505	1.2149	1.2521	1.2314	1.84
2,3,7,8-TCDD-13C	0.9787	1.0027	0.9909	1.0074	1.0212	1.0002	1.62
2,3,7,8-TCDD-37Cl4	1.0019	1.0209	1.0140	1.0613	1.0633	1.0323	2.74
1,2,3,7,8-PeCDF-13C	0.9514	0.9749	0.9703	0.9801	1.0606	0.9875	4.28
2,3,4,7,8-PeCDF-13C	0.9549	0.9741	0.9756	0.9724	1.0612	0.9876	4.25
1,2,3,7,8-PeCDD-13C	0.6937	0.7006	0.7275	0.7029	0.7592	0.7168	3.76
1,2,3,4,7,8-HxCDF-13C	0.8567	0.8611	0.8660	0.8592	0.9025	0.8691	2.18
1,2,3,6,7,8-HxCDF-13C	1.0867	1.0930	1.1040	1.0703	1.1111	1.0930	1.45
2,3,4,6,7,8-HxCDF-13C	1.0338	1.0350	1.0278	1.0062	1.0477	1.0301	1.47
1,2,3,7,8,9-HxCDF-13C	0.8509	0.8793	0.8755	0.8854	0.9366	0.8855	3.55
1,2,3,4,7,8-HxCDD-13C	0.8194	0.8089	0.8233	0.8677	0.8647	0.8368	3.27
1,2,3,6,7,8-HxCDD-13C	1.0580	1.0533	1.0867	1.0362	1.0749	1.0618	1.85
1,2,3,4,6,7,8-HpCDF-13C	1.1112	1.1161	1.1553	1.1153	1.2010	1.1398	3.39
1,2,3,4,7,8,9-HpCDF-13C	1.0077	1.0680	1.0887	1.0818	1.2124	1.0917	6.84
1,2,3,4,6,7,8-HpCDD-13C	0.9938	1.0164	1.0378	0.9900	1.0907	1.0257	4.01
OCDD-13C	0.8435	0.8962	0.9229	0.9971	1.1093	0.9538	10.80

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**Initial Calibration (ICAL) - Isotope Ratio Summary  
Method 1613/8290**

ICAL ID	P70228	Data Files:	Time	Injected
Calibration Date	02/28/2007	CS-1 P70228B_06	17:11	BAL
Instrument	10MSHR09 (P)	CS-2 P70228B_05	16:25	BAL
Column Phase	DB-5MS 0.25mm	CS-3 P70228B_04	15:28	BAL
Column ID No.	US5455214H	CS-4 P70228B_08	18:47	BAL
		CS-5 P70228B_07	17:59	BAL

Isomer	CS-1	CS-2	CS-3	CS-4	CS-5	Limits
2,3,7,8-TCDF	0.72	0.73	0.73	0.74	0.75	0.65 - 0.89
2,3,7,8-TCDD	0.71	0.73	0.77	0.78	0.76	0.65 - 0.89
1,2,3,7,8-PeCDF	1.47	1.54	1.52	1.51	1.48	1.32 - 1.78
2,3,4,7,8-PeCDF	1.52	1.45	1.50	1.53	1.52	1.32 - 1.78
1,2,3,7,8-PeCDD	0.61	0.60	0.61	0.61	0.61	0.52 - 0.70
1,2,3,4,7,8-HxCDF	1.22	1.22	1.25	1.21	1.23	1.05 - 1.43
1,2,3,6,7,8-HxCDF	1.18	1.21	1.15	1.20	1.19	1.05 - 1.43
2,3,4,6,7,8-HxCDF	1.30	1.20	1.20	1.20	1.21	1.05 - 1.43
1,2,3,7,8,9-HxCDF	1.16	1.24	1.23	1.20	1.22	1.05 - 1.43
1,2,3,4,7,8-HxCDD	1.34	1.19	1.25	1.25	1.29	1.05 - 1.43
1,2,3,6,7,8-HxCDD	1.22	1.22	1.25	1.25	1.18	1.05 - 1.43
1,2,3,7,8,9-HxCDD	1.26	1.22	1.23	1.27	1.21	1.05 - 1.43
1,2,3,4,6,7,8-HpCDF	1.09	1.06	1.01	1.02	1.02	0.88 - 1.20
1,2,3,4,7,8,9-HpCDF	1.07	1.03	1.06	1.03	1.03	0.88 - 1.20
1,2,3,4,6,7,8-HpCDD	1.06	1.05	1.02	1.04	1.04	0.88 - 1.20
OCDF	0.87	0.90	0.88	0.89	0.88	0.76 - 1.02
OCDD	0.90	0.88	0.87	0.88	0.88	0.76 - 1.02
1,2,3,4-TCDD-13C	0.79	0.78	0.78	0.78	0.77	0.65 - 0.89
1,2,3,7,8,9-HxCDD-13C	1.23	1.20	1.23	1.23	1.26	1.05 - 1.43
2,3,7,8-TCDF-13C	0.76	0.77	0.77	0.78	0.77	0.65 - 0.89
2,3,7,8-TCDD-13C	0.77	0.77	0.79	0.78	0.78	0.65 - 0.89
1,2,3,7,8-PeCDF-13C	1.55	1.57	1.56	1.55	1.54	1.32 - 1.78
2,3,4,7,8-PeCDF-13C	1.58	1.56	1.60	1.59	1.55	1.32 - 1.78
1,2,3,7,8-PeCDD-13C	1.61	1.57	1.55	1.57	1.59	1.32 - 1.78
1,2,3,4,7,8-HxCDF-13C	0.50	0.50	0.50	0.51	0.51	0.43 - 0.59
1,2,3,6,7,8-HxCDF-13C	0.51	0.50	0.51	0.52	0.51	0.43 - 0.59
2,3,4,6,7,8-HxCDF-13C	0.51	0.49	0.50	0.52	0.51	0.43 - 0.59
1,2,3,7,8,9-HxCDF-13C	0.51	0.50	0.51	0.50	0.50	0.43 - 0.59
1,2,3,4,7,8-HxCDD-13C	1.25	1.24	1.27	1.25	1.26	1.05 - 1.43
1,2,3,6,7,8-HxCDD-13C	1.25	1.24	1.26	1.25	1.25	1.05 - 1.43
1,2,3,4,6,7,8-HpCDF-13C	0.45	0.44	0.46	0.45	0.44	0.37 - 0.51
1,2,3,4,7,8,9-HpCDF-13C	0.45	0.44	0.45	0.44	0.44	0.37 - 0.51
1,2,3,4,6,7,8-HpCDD-13C	1.06	1.05	1.06	1.07	1.04	0.88 - 1.20
OCDD-13C	0.88	0.91	0.89	0.89	0.90	0.76 - 1.02

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**Method 8290**  
**PCDD/PCDF Calibration Verification**

Run Name: P70306A\_03 Instrument ID 10MSHR09 (P)  
Standard CS3/CPM-011607 GC Column ID US5455214H  
Analyzed 03/06/2007 14:20 ICAL Date 02/28/2007

Compound	Known Conc.	Conc Found	Ion Abund. Ratio	Average RF	Daily RF	Deviation (%)
2,3,7,8-TCDF	10	10.6	0.77	0.9237	0.9785	5.9
2,3,7,8-TCDD	10	10.1	0.76	0.9391	0.9503	1.2
1,2,3,7,8-PeCDF	50	52.4	1.57	0.8247	0.8643	4.8
2,3,4,7,8-PeCDF	50	52.0	1.58	0.8735	0.9088	4.0
1,2,3,7,8-PeCDD	50	49.8	0.61	0.9389	0.9347	-0.4
1,2,3,4,7,8-HxCDF	50	49.7	1.23	1.0616	1.0556	-0.6
1,2,3,6,7,8-HxCDF	50	49.8	1.24	0.9827	0.9785	-0.4
2,3,4,6,7,8-HxCDF	50	49.4	1.23	1.0131	1.0001	-1.3
1,2,3,7,8,9-HxCDF	50	48.3	1.26	1.0087	0.9744	-3.4
1,2,3,4,7,8-HxCDD	50	50.3	1.30	0.9583	0.9632	0.5
1,2,3,6,7,8-HxCDD	50	47.4	1.23	0.8947	0.8473	-5.3
1,2,3,7,8,9-HxCDD	50	47.7	1.28	0.9656	0.9208	-4.6
1,2,3,4,6,7,8-HpCDF	50	48.1	1.03	1.3559	1.3032	-3.9
1,2,3,4,7,8,9-HpCDF	50	47.5	1.04	1.1960	1.1371	-4.9
1,2,3,4,6,7,8-HpCDD	50	46.5	1.04	1.1016	1.0252	-6.9
OCDF	100	94.9	0.89	0.9450	0.8968	-5.1
OCDD	100	96.6	0.87	1.0522	1.0162	-3.4
Total PeCDF	100	104.4	NA	0.8491	0.8865	4.4
Total HxCDF	200	197.2	NA	1.0165	1.0022	-1.4
Total HxCDD	150	145.3	NA	0.9396	0.9104	-3.1
Total HpCDF	100	95.6	NA	1.2760	1.2202	-4.4
2,3,7,8-TCDF-13C	100	101.1	0.78	1.2314	1.2454	1.1
2,3,7,8-TCDD-13C	100	98.9	0.77	1.0002	0.9889	-1.1
2,3,7,8-TCDD-37Cl4	10	9.5	NA	1.0323	0.9786	-5.2
1,2,3,7,8-PeCDF-13C	100	96.5	1.55	0.9875	0.9525	-3.5
2,3,4,7,8-PeCDF-13C	100	87.3	1.56	0.9876	0.8620	-12.7
1,2,3,7,8-PeCDD-13C	100	86.7	1.57	0.7168	0.6215	-13.3
1,2,3,4,7,8-HxCDF-13C	100	111.7	0.51	0.8691	0.9710	11.7
1,2,3,6,7,8-HxCDF-13C	100	107.8	0.51	1.0930	1.1780	7.8
2,3,4,6,7,8-HxCDF-13C	100	103.1	0.53	1.0301	1.0622	3.1
1,2,3,7,8,9-HxCDF-13C	100	103.7	0.52	0.8855	0.9181	3.7
1,2,3,4,7,8-HxCDD-13C	100	104.3	1.25	0.8368	0.8730	4.3
1,2,3,6,7,8-HxCDD-13C	100	98.1	1.24	1.0618	1.0414	-1.9
1,2,3,4,6,7,8-HpCDF-13C	100	95.0	0.45	1.1398	1.0829	-5.0
1,2,3,4,7,8,9-HpCDF-13C	100	90.2	0.44	1.0917	0.9853	-9.8
1,2,3,4,6,7,8-HpCDD-13C	100	95.0	1.06	1.0257	0.9741	-5.0
OCDD-13C	200	156.5	0.88	0.9538	0.7463	-21.8
1,2,3,4-TCDD-13C	100	NA	0.78	NA	NA	NA
1,2,3,7,8,9-HxCDD-13C	100	NA	1.24	NA	NA	NA

Concentrations expressed as pg/ul

NA = Not Applicable

\* = Outside target range

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**Method 8290**  
**PCDD/PCDF Calibration Verification**

Run Name: P70306A\_18 Instrument ID 10MSHR09 (P)  
Standard CS3/CPM-011607 GC Column ID US5455214H  
Analyzed 03/07/2007 02:23 ICAL Date 02/28/2007

Compound	Known Conc.	Conc Found	Ion Abund. Ratio	Average RF	Daily RF	Deviation (%)
2,3,7,8-TCDF	10	10.6	0.77	0.9237	0.9777	5.8
2,3,7,8-TCDD	10	10.2	0.80	0.9391	0.9551	1.7
1,2,3,7,8-PeCDF	50	52.4	1.55	0.8247	0.8649	4.9
2,3,4,7,8-PeCDF	50	52.2	1.55	0.8735	0.9119	4.4
1,2,3,7,8-PeCDD	50	49.5	0.61	0.9389	0.9294	-1.0
1,2,3,4,7,8-HxCDF	50	49.1	1.22	1.0616	1.0434	-1.7
1,2,3,6,7,8-HxCDF	50	49.8	1.23	0.9827	0.9797	-0.3
2,3,4,6,7,8-HxCDF	50	48.8	1.23	1.0131	0.9885	-2.4
1,2,3,7,8,9-HxCDF	50	49.2	1.23	1.0087	0.9935	-1.5
1,2,3,4,7,8-HxCDD	50	49.2	1.27	0.9583	0.9433	-1.6
1,2,3,6,7,8-HxCDD	50	47.2	1.17	0.8947	0.8438	-5.7
1,2,3,7,8,9-HxCDD	50	46.9	1.21	0.9656	0.9051	-6.3
1,2,3,4,6,7,8-HpCDF	50	48.7	1.02	1.3559	1.3198	-2.7
1,2,3,4,7,8,9-HpCDF	50	48.0	1.06	1.1960	1.1485	-4.0
1,2,3,4,6,7,8-HpCDD	50	47.1	1.05	1.1016	1.0373	-5.8
OCDF	100	100.7	0.88	0.9450	0.9519	0.7
OCDD	100	96.3	0.89	1.0522	1.0128	-3.7
Total PeCDF	100	104.6	NA	0.8491	0.8884	4.6
Total HxCDF	200	197.0	NA	1.0165	1.0013	-1.5
Total HxCDD	150	143.2	NA	0.9396	0.8974	-4.5
Total HpCDF	100	96.7	NA	1.2760	1.2341	-3.3
2,3,7,8-TCDF-13C	100	100.3	0.78	1.2314	1.2356	0.3
2,3,7,8-TCDD-13C	100	98.6	0.78	1.0002	0.9860	-1.4
2,3,7,8-TCDD-37Cl4	10	9.6	NA	1.0323	0.9927	-3.8
1,2,3,7,8-PeCDF-13C	100	87.9	1.55	0.9875	0.8680	-12.1
2,3,4,7,8-PeCDF-13C	100	85.0	1.55	0.9876	0.8397	-15.0
1,2,3,7,8-PeCDD-13C	100	84.3	1.57	0.7168	0.6044	-15.7
1,2,3,4,7,8-HxCDF-13C	100	110.9	0.52	0.8691	0.9641	10.9
1,2,3,6,7,8-HxCDF-13C	100	104.0	0.51	1.0930	1.1362	4.0
2,3,4,6,7,8-HxCDF-13C	100	102.8	0.52	1.0301	1.0588	2.8
1,2,3,7,8,9-HxCDF-13C	100	101.1	0.52	0.8855	0.8956	1.1
1,2,3,4,7,8-HxCDD-13C	100	107.5	1.26	0.8368	0.8999	7.5
1,2,3,6,7,8-HxCDD-13C	100	98.9	1.23	1.0618	1.0498	-1.1
1,2,3,4,6,7,8-HpCDF-13C	100	94.8	0.45	1.1398	1.0800	-5.2
1,2,3,4,7,8,9-HpCDF-13C	100	87.1	0.44	1.0917	0.9514	-12.9
1,2,3,4,6,7,8-HpCDD-13C	100	91.3	1.06	1.0257	0.9365	-8.7
OCDD-13C	200	149.5	0.88	0.9538	0.7128	-25.3
1,2,3,4-TCDD-13C	100	NA	0.79	NA	NA	NA
1,2,3,7,8,9-HxCDD-13C	100	NA	1.23	NA	NA	NA

Concentrations expressed as pg/ul

NA = Not Applicable

\* = Outside target range

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**Method 8290**  
**PCDD/PCDF Calibration Verification**

Run Name: P70306B\_12 Instrument ID 10MSHR09 (P)  
Standard CS3/CPM-011607 GC Column ID US5455214H  
Analyzed 03/07/2007 12:45 ICAL Date 02/28/2007

Compound	Known Conc.	Conc Found	Ion Abund. Ratio	Average RF	Daily RF	Deviation (%)
2,3,7,8-TCDF	10	10.9	0.78	0.9237	1.0041	8.7
2,3,7,8-TCDD	10	10.6	0.74	0.9391	0.9991	6.4
1,2,3,7,8-PeCDF	50	56.1	1.56	0.8247	0.9250	12.2
2,3,4,7,8-PeCDF	50	54.6	1.56	0.8735	0.9536	9.2
1,2,3,7,8-PeCDD	50	53.0	0.61	0.9389	0.9946	5.9
1,2,3,4,7,8-HxCDF	50	51.5	1.22	1.0616	1.0924	2.9
1,2,3,6,7,8-HxCDF	50	53.7	1.24	0.9827	1.0554	7.4
2,3,4,6,7,8-HxCDF	50	51.6	1.23	1.0131	1.0454	3.2
1,2,3,7,8,9-HxCDF	50	51.3	1.24	1.0087	1.0343	2.5
1,2,3,4,7,8-HxCDD	50	50.9	1.23	0.9583	0.9751	1.8
1,2,3,6,7,8-HxCDD	50	51.0	1.24	0.8947	0.9131	2.0
1,2,3,7,8,9-HxCDD	50	49.7	1.24	0.9656	0.9594	-0.6
1,2,3,4,6,7,8-HpCDF	50	49.4	1.02	1.3559	1.3401	-1.2
1,2,3,4,7,8,9-HpCDF	50	49.6	1.03	1.1960	1.1865	-0.8
1,2,3,4,6,7,8-HpCDD	50	47.9	1.05	1.1016	1.0547	-4.3
OCDF	100	116.9	0.90	0.9450	1.1045	16.9
OCDD	100	99.1	0.89	1.0522	1.0425	-0.9
Total PeCDF	100	110.7	NA	0.8491	0.9393	10.6
Total HxCDF	200	208.0	NA	1.0165	1.0569	4.0
Total HxCDD	150	151.6	NA	0.9396	0.9492	1.0
Total HpCDF	100	99.0	NA	1.2760	1.2633	-1.0
2,3,7,8-TCDF-13C	100	105.3	0.78	1.2314	1.2969	5.3
2,3,7,8-TCDD-13C	100	99.2	0.79	1.0002	0.9917	-0.8
2,3,7,8-TCDD-37Cl4	10	9.7	NA	1.0323	1.0017	-3.0
1,2,3,7,8-PeCDF-13C	100	104.1	1.53	0.9875	1.0281	4.1
2,3,4,7,8-PeCDF-13C	100	106.6	1.58	0.9876	1.0527	6.6
1,2,3,7,8-PeCDD-13C	100	100.7	1.56	0.7168	0.7217	0.7
1,2,3,4,7,8-HxCDF-13C	100	120.2	0.52	0.8691	1.0444	20.2
1,2,3,6,7,8-HxCDF-13C	100	110.2	0.53	1.0930	1.2050	10.2
2,3,4,6,7,8-HxCDF-13C	100	109.7	0.52	1.0301	1.1299	9.7
1,2,3,7,8,9-HxCDF-13C	100	108.8	0.53	0.8855	0.9632	8.8
1,2,3,4,7,8-HxCDD-13C	100	109.9	1.25	0.8368	0.9199	9.9
1,2,3,6,7,8-HxCDD-13C	100	97.3	1.24	1.0618	1.0331	-2.7
1,2,3,4,6,7,8-HpCDF-13C	100	82.3	0.45	1.1398	0.9380	-17.7
1,2,3,4,7,8,9-HpCDF-13C	100	72.1	0.45	1.0917	0.7875	-27.9
1,2,3,4,6,7,8-HpCDD-13C	100	73.3	1.06	1.0257	0.7523	-26.7
OCDD-13C	200	108.5	0.89	0.9538	0.5172	* -45.8
1,2,3,4-TCDD-13C	100	NA	0.79	NA	NA	NA
1,2,3,7,8,9-HxCDD-13C	100	NA	1.24	NA	NA	NA

Concentrations expressed as pg/ul

NA = Not Applicable

\* = Outside target range

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**Method 8290**  
**PCDD/PCDF Calibration Verification**

Run Name: P70307A\_02 Instrument ID 10MSHR09 (P)  
Standard CS3/CPM-011607 GC Column ID US5455214H  
Analyzed 03/07/2007 15:08 ICAL Date 02/28/2007

Compound	Known Conc.	Conc Found	Ion Abund. Ratio	Average RF	Daily RF	Deviation (%)
2,3,7,8-TCDF	10	11.4	0.78	0.9237	1.0564	14.4
2,3,7,8-TCDD	10	10.7	0.73	0.9391	1.0005	6.5
1,2,3,7,8-PeCDF	50	53.0	1.52	0.8247	0.8750	6.1
2,3,4,7,8-PeCDF	50	52.8	1.54	0.8735	0.9221	5.6
1,2,3,7,8-PeCDD	50	50.6	0.60	0.9389	0.9503	1.2
1,2,3,4,7,8-HxCDF	50	51.2	1.22	1.0616	1.0873	2.4
1,2,3,6,7,8-HxCDF	50	51.6	1.24	0.9827	1.0137	3.2
2,3,4,6,7,8-HxCDF	50	50.7	1.21	1.0131	1.0272	1.4
1,2,3,7,8,9-HxCDF	50	49.7	1.23	1.0087	1.0031	-0.6
1,2,3,4,7,8-HxCDD	50	51.5	1.31	0.9583	0.9874	3.0
1,2,3,6,7,8-HxCDD	50	50.1	1.20	0.8947	0.8963	0.2
1,2,3,7,8,9-HxCDD	50	51.3	1.25	0.9656	0.9914	2.7
1,2,3,4,6,7,8-HpCDF	50	49.9	1.02	1.3559	1.3545	-0.1
1,2,3,4,7,8,9-HpCDF	50	49.2	1.02	1.1960	1.1780	-1.5
1,2,3,4,6,7,8-HpCDD	50	47.9	1.05	1.1016	1.0553	-4.2
OCDF	100	111.9	0.89	0.9450	1.0574	11.9
OCDD	100	98.7	0.89	1.0522	1.0385	-1.3
Total PeCDF	100	105.8	NA	0.8491	0.8986	5.8
Total HxCDF	200	203.2	NA	1.0165	1.0328	1.6
Total HxCDD	150	152.9	NA	0.9396	0.9584	2.0
Total HpCDF	100	99.2	NA	1.2760	1.2662	-0.8
2,3,7,8-TCDF-13C	100	103.8	0.80	1.2314	1.2780	3.8
2,3,7,8-TCDD-13C	100	97.5	0.79	1.0002	0.9754	-2.5
2,3,7,8-TCDD-37Cl4	10	9.6	NA	1.0323	0.9954	-3.6
1,2,3,7,8-PeCDF-13C	100	96.3	1.56	0.9875	0.9512	-3.7
2,3,4,7,8-PeCDF-13C	100	88.6	1.53	0.9876	0.8751	-11.4
1,2,3,7,8-PeCDD-13C	100	87.1	1.56	0.7168	0.6240	-12.9
1,2,3,4,7,8-HxCDF-13C	100	112.6	0.51	0.8691	0.9789	12.6
1,2,3,6,7,8-HxCDF-13C	100	107.0	0.52	1.0930	1.1698	7.0
2,3,4,6,7,8-HxCDF-13C	100	108.1	0.51	1.0301	1.1137	8.1
1,2,3,7,8,9-HxCDF-13C	100	115.5	0.52	0.8855	1.0228	15.5
1,2,3,4,7,8-HxCDD-13C	100	105.5	1.27	0.8368	0.8831	5.5
1,2,3,6,7,8-HxCDD-13C	100	95.9	1.29	1.0618	1.0188	-4.1
1,2,3,4,6,7,8-HpCDF-13C	100	98.9	0.46	1.1398	1.1267	-1.1
1,2,3,4,7,8,9-HpCDF-13C	100	95.8	0.45	1.0917	1.0457	-4.2
1,2,3,4,6,7,8-HpCDD-13C	100	96.6	1.05	1.0257	0.9910	-3.4
OCDD-13C	200	162.3	0.88	0.9538	0.7741	-18.8
1,2,3,4-TCDD-13C	100	NA	0.78	NA	NA	NA
1,2,3,7,8,9-HxCDD-13C	100	NA	1.29	NA	NA	NA

Concentrations expressed as pg/ul

NA = Not Applicable

\* = Outside target range

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**Method 8290**  
**PCDD/PCDF Calibration Verification**

Run Name: P70307A\_07 Instrument ID 10MSHR09 (P)  
Standard CS3/CPM-011607 GC Column ID US5455214H  
Analyzed 03/07/2007 18:52 ICAL Date 02/28/2007

Compound	Known Conc.	Conc Found	Ion Abund. Ratio	Average RF	Daily RF	Deviation (%)
2,3,7,8-TCDF	10	11.0	0.75	0.9237	1.0165	10.0
2,3,7,8-TCDD	10	10.9	0.77	0.9391	1.0268	9.3
1,2,3,7,8-PeCDF	50	54.1	1.57	0.8247	0.8925	8.2
2,3,4,7,8-PeCDF	50	52.2	1.53	0.8735	0.9119	4.4
1,2,3,7,8-PeCDD	50	51.5	0.62	0.9389	0.9676	3.1
1,2,3,4,7,8-HxCDF	50	52.1	1.21	1.0616	1.1057	4.2
1,2,3,6,7,8-HxCDF	50	51.4	1.22	0.9827	1.0104	2.8
2,3,4,6,7,8-HxCDF	50	51.7	1.21	1.0131	1.0473	3.4
1,2,3,7,8,9-HxCDF	50	50.4	1.22	1.0087	1.0170	0.8
1,2,3,4,7,8-HxCDD	50	50.3	1.25	0.9583	0.9641	0.6
1,2,3,6,7,8-HxCDD	50	51.2	1.24	0.8947	0.9166	2.4
1,2,3,7,8,9-HxCDD	50	49.6	1.24	0.9656	0.9589	-0.7
1,2,3,4,6,7,8-HpCDF	50	49.2	1.04	1.3559	1.3344	-1.6
1,2,3,4,7,8,9-HpCDF	50	50.5	1.03	1.1960	1.2070	0.9
1,2,3,4,6,7,8-HpCDD	50	47.6	1.06	1.1016	1.0491	-4.8
OCDF	100	111.8	0.90	0.9450	1.0562	11.8
OCDD	100	99.1	0.89	1.0522	1.0424	-0.9
Total PeCDF	100	106.3	NA	0.8491	0.9022	6.3
Total HxCDF	200	205.6	NA	1.0165	1.0451	2.8
Total HxCDD	150	151.2	NA	0.9396	0.9465	0.7
Total HpCDF	100	99.7	NA	1.2760	1.2707	-0.4
2,3,7,8-TCDF-13C	100	106.5	0.78	1.2314	1.3114	6.5
2,3,7,8-TCDD-13C	100	101.2	0.77	1.0002	1.0124	1.2
2,3,7,8-TCDD-37Cl4	10	10.1	NA	1.0323	1.0426	1.0
1,2,3,7,8-PeCDF-13C	100	113.1	1.58	0.9875	1.1167	13.1
2,3,4,7,8-PeCDF-13C	100	108.1	1.57	0.9876	1.0680	8.1
1,2,3,7,8-PeCDD-13C	100	103.1	1.56	0.7168	0.7393	3.1
1,2,3,4,7,8-HxCDF-13C	100	117.4	0.52	0.8691	1.0201	17.4
1,2,3,6,7,8-HxCDF-13C	100	113.9	0.52	1.0930	1.2453	13.9
2,3,4,6,7,8-HxCDF-13C	100	107.5	0.52	1.0301	1.1072	7.5
1,2,3,7,8,9-HxCDF-13C	100	105.7	0.52	0.8855	0.9359	5.7
1,2,3,4,7,8-HxCDD-13C	100	103.0	1.26	0.8368	0.8618	3.0
1,2,3,6,7,8-HxCDD-13C	100	100.9	1.25	1.0618	1.0711	0.9
1,2,3,4,6,7,8-HpCDF-13C	100	77.6	0.45	1.1398	0.8846	-22.4
1,2,3,4,7,8,9-HpCDF-13C	100	65.9	0.44	1.0917	0.7193	* -34.1
1,2,3,4,6,7,8-HpCDD-13C	100	70.2	1.06	1.0257	0.7203	-29.8
OCDD-13C	200	121.3	0.89	0.9538	0.5786	* -39.3
1,2,3,4-TCDD-13C	100	NA	0.82	NA	NA	NA
1,2,3,7,8,9-HxCDD-13C	100	NA	1.26	NA	NA	NA

Concentrations expressed as pg/ul

NA = Not Applicable

\* = Outside target range

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**Method 8290**  
**PCDD/PCDF Calibration Verification**

Run Name: U70307B\_16 Instrument ID 10MSHR06 (U)  
Standard CS3/CPM-5176-105 GC Column ID US6667215H  
Analyzed 03/08/2007 08:06 ICAL Date 01/27/2007

Compound	Known Conc.	Conc Found	Ion Abund. Ratio	Average RF	Daily RF	Deviation (%)
2,3,7,8-TCDF	10	9.6	0.77	1.1657	1.1202	-3.9
2,3,7,8-TCDD	10	10.4	0.79	1.0075	1.0460	3.8
1,2,3,7,8-PeCDF	50	48.2	1.52	1.0448	1.0071	-3.6
2,3,4,7,8-PeCDF	50	48.9	1.56	1.0778	1.0545	-2.2
1,2,3,7,8-PeCDD	50	50.5	0.62	1.0449	1.0550	1.0
1,2,3,4,7,8-HxCDF	50	48.7	1.25	1.2357	1.2024	-2.7
1,2,3,6,7,8-HxCDF	50	50.1	1.25	1.1723	1.1739	0.1
2,3,4,6,7,8-HxCDF	50	47.8	1.21	1.1899	1.1367	-4.5
1,2,3,7,8,9-HxCDF	50	49.1	1.20	1.1718	1.1502	-1.8
1,2,3,4,7,8-HxCDD	50	50.7	1.24	1.0684	1.0837	1.4
1,2,3,6,7,8-HxCDD	50	51.7	1.27	0.9818	1.0160	3.5
1,2,3,7,8,9-HxCDD	50	49.7	1.28	1.0471	1.0410	-0.6
1,2,3,4,6,7,8-HpCDF	50	51.3	1.03	1.3949	1.4305	2.6
1,2,3,4,7,8,9-HpCDF	50	49.2	1.06	1.2524	1.2315	-1.7
1,2,3,4,6,7,8-HpCDD	50	48.9	1.06	1.1802	1.1547	-2.2
OCDF	100	87.5	0.92	1.4590	1.2771	-12.5
OCDD	100	97.9	0.90	1.1110	1.0872	-2.1
Total PeCDF	100	97.1	NA	1.0613	1.0308	-2.9
Total HxCDF	200	195.6	NA	1.1924	1.1658	-2.2
Total HxCDD	150	152.2	NA	1.0325	1.0469	1.4
Total HpCDF	100	100.4	NA	1.3236	1.3310	0.6
2,3,7,8-TCDF-13C	100	100.9	0.80	1.3537	1.3666	0.9
2,3,7,8-TCDD-13C	100	99.8	0.81	1.0206	1.0186	-0.2
2,3,7,8-TCDD-37Cl4	10	9.8	NA	1.0997	1.0724	-2.5
1,2,3,7,8-PeCDF-13C	100	103.9	1.60	1.3049	1.3556	3.9
2,3,4,7,8-PeCDF-13C	100	99.5	1.61	1.3376	1.3313	-0.5
1,2,3,7,8-PeCDD-13C	100	98.5	1.55	0.8280	0.8160	-1.5
1,2,3,4,7,8-HxCDF-13C	100	107.0	0.53	1.1422	1.2221	7.0
1,2,3,6,7,8-HxCDF-13C	100	104.3	0.54	1.4658	1.5294	4.3
2,3,4,6,7,8-HxCDF-13C	100	106.1	0.54	1.3484	1.4305	6.1
1,2,3,7,8,9-HxCDF-13C	100	99.5	0.54	1.1349	1.1294	-0.5
1,2,3,4,7,8-HxCDD-13C	100	101.3	1.27	0.8454	0.8565	1.3
1,2,3,6,7,8-HxCDD-13C	100	101.5	1.24	1.0985	1.1147	1.5
1,2,3,4,6,7,8-HpCDF-13C	100	95.4	0.47	0.9706	0.9264	-4.6
1,2,3,4,7,8,9-HpCDF-13C	100	85.1	0.45	0.8788	0.7477	-14.9
1,2,3,4,6,7,8-HpCDD-13C	100	91.8	1.05	0.6946	0.6377	-8.2
OCDD-13C	200	157.2	0.91	0.6869	0.5399	-21.4
1,2,3,4-TCDD-13C	100	NA	0.80	NA	NA	NA
1,2,3,7,8,9-HxCDD-13C	100	NA	1.31	NA	NA	NA

Concentrations expressed as pg/ul

NA = Not Applicable

\* = Outside target range

**REPORT OF LABORATORY ANALYSIS**

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**Method 8290**  
**PCDD/PCDF Calibration Verification**

Run Name: U70308A\_08 Instrument ID 10MSHR06 (U)  
Standard CS3/CPM-5176-105 GC Column ID US6667215H  
Analyzed 03/08/2007 14:15 ICAL Date 01/27/2007

Compound	Known Conc.	Conc Found	Ion Abund. Ratio	Average RF	Daily RF	Deviation (%)
2,3,7,8-TCDF	10	10.0	0.74	1.1657	1.1624	-0.3
2,3,7,8-TCDD	10	10.6	0.81	1.0075	1.0679	6.0
1,2,3,7,8-PeCDF	50	47.2	1.52	1.0448	0.9867	-5.6
2,3,4,7,8-PeCDF	50	49.4	1.53	1.0778	1.0642	-1.3
1,2,3,7,8-PeCDD	50	50.5	0.61	1.0449	1.0549	1.0
1,2,3,4,7,8-HxCDF	50	49.7	1.25	1.2357	1.2290	-0.5
1,2,3,6,7,8-HxCDF	50	49.1	1.25	1.1723	1.1513	-1.8
2,3,4,6,7,8-HxCDF	50	49.0	1.26	1.1899	1.1656	-2.0
1,2,3,7,8,9-HxCDF	50	47.8	1.25	1.1718	1.1209	-4.3
1,2,3,4,7,8-HxCDD	50	50.3	1.30	1.0684	1.0742	0.5
1,2,3,6,7,8-HxCDD	50	51.4	1.29	0.9818	1.0092	2.8
1,2,3,7,8,9-HxCDD	50	50.1	1.26	1.0471	1.0489	0.2
1,2,3,4,6,7,8-HpCDF	50	50.6	1.06	1.3949	1.4107	1.1
1,2,3,4,7,8,9-HpCDF	50	50.3	1.09	1.2524	1.2588	0.5
1,2,3,4,6,7,8-HpCDD	50	48.9	1.08	1.1802	1.1533	-2.3
OCDF	100	85.2	0.92	1.4590	1.2434	-14.8
OCDD	100	100.2	0.93	1.1110	1.1137	0.2
Total PeCDF	100	96.6	NA	1.0613	1.0254	-3.4
Total HxCDF	200	195.6	NA	1.1924	1.1667	-2.2
Total HxCDD	150	151.7	NA	1.0325	1.0441	1.1
Total HpCDF	100	100.8	NA	1.3236	1.3347	0.8
2,3,7,8-TCDF-13C	100	100.3	0.78	1.3537	1.3582	0.3
2,3,7,8-TCDD-13C	100	101.4	0.79	1.0206	1.0348	1.4
2,3,7,8-TCDD-37Cl4	10	9.8	NA	1.0997	1.0782	-2.0
1,2,3,7,8-PeCDF-13C	100	109.0	1.58	1.3049	1.4227	9.0
2,3,4,7,8-PeCDF-13C	100	104.3	1.61	1.3376	1.3950	4.3
1,2,3,7,8-PeCDD-13C	100	105.4	1.55	0.8280	0.8727	5.4
1,2,3,4,7,8-HxCDF-13C	100	101.7	0.55	1.1422	1.1615	1.7
1,2,3,6,7,8-HxCDF-13C	100	104.3	0.53	1.4658	1.5289	4.3
2,3,4,6,7,8-HxCDF-13C	100	102.3	0.55	1.3484	1.3801	2.3
1,2,3,7,8,9-HxCDF-13C	100	97.2	0.53	1.1349	1.1029	-2.8
1,2,3,4,7,8-HxCDD-13C	100	99.0	1.27	0.8454	0.8372	-1.0
1,2,3,6,7,8-HxCDD-13C	100	102.0	1.26	1.0985	1.1209	2.0
1,2,3,4,6,7,8-HpCDF-13C	100	96.0	0.45	0.9706	0.9316	-4.0
1,2,3,4,7,8,9-HpCDF-13C	100	82.2	0.46	0.8788	0.7224	-17.8
1,2,3,4,6,7,8-HpCDD-13C	100	91.5	1.08	0.6946	0.6358	-8.5
OCDD-13C	200	152.8	0.89	0.6869	0.5248	-23.6
1,2,3,4-TCDD-13C	100	NA	0.80	NA	NA	NA
1,2,3,7,8,9-HxCDD-13C	100	NA	1.27	NA	NA	NA

Concentrations expressed as pg/ul

NA = Not Applicable

\* = Outside target range

**REPORT OF LABORATORY ANALYSIS**

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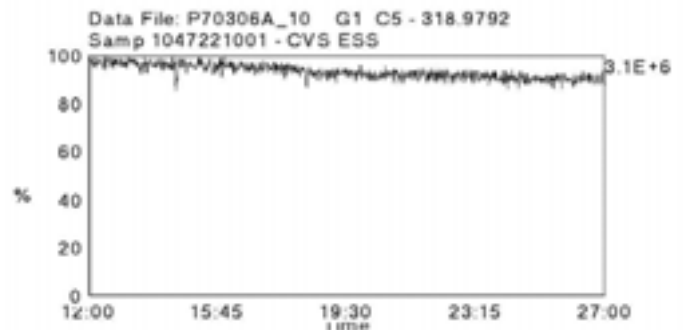
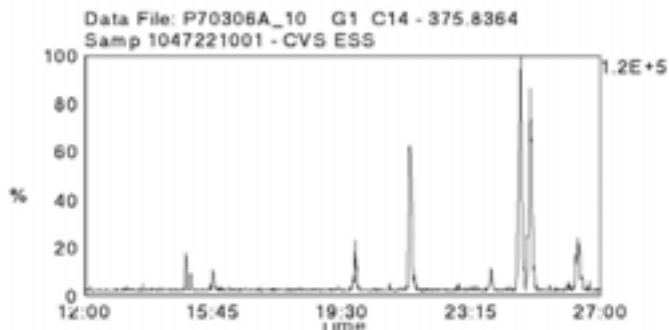
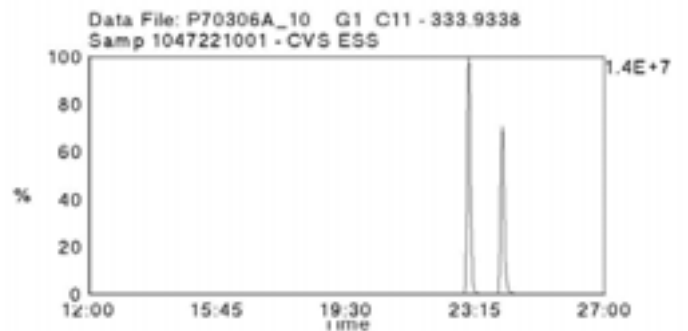
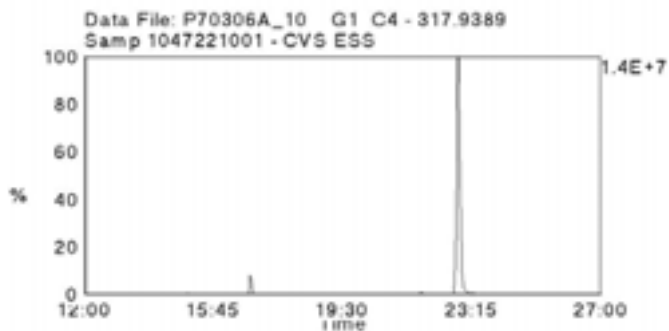
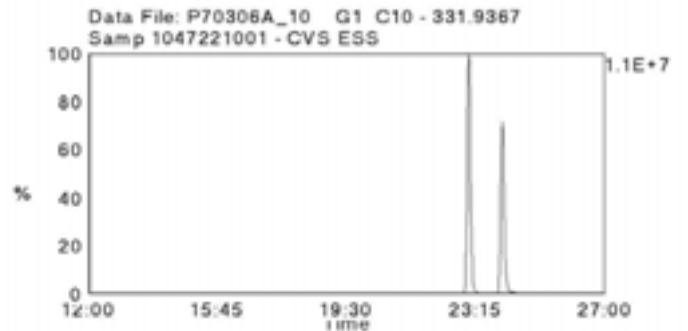
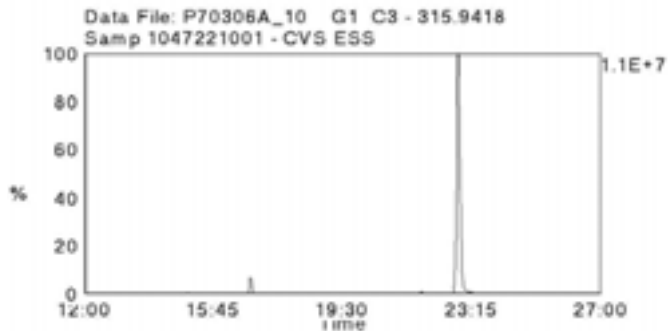
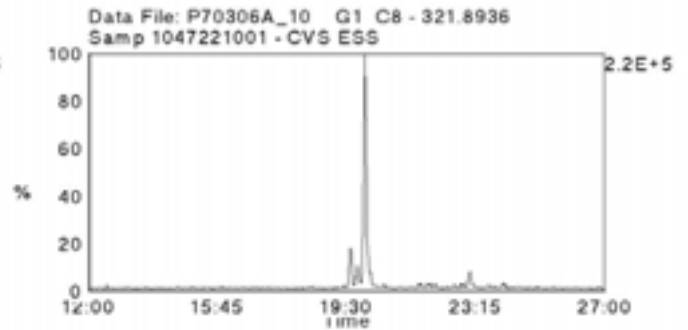
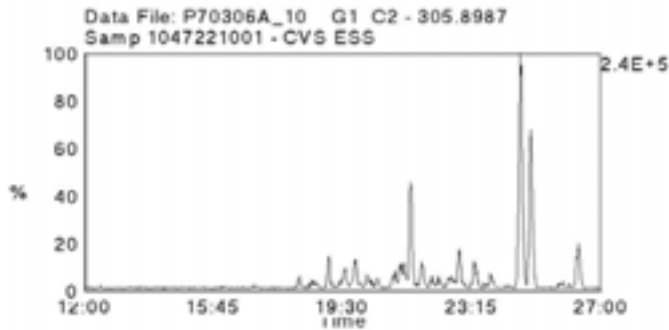
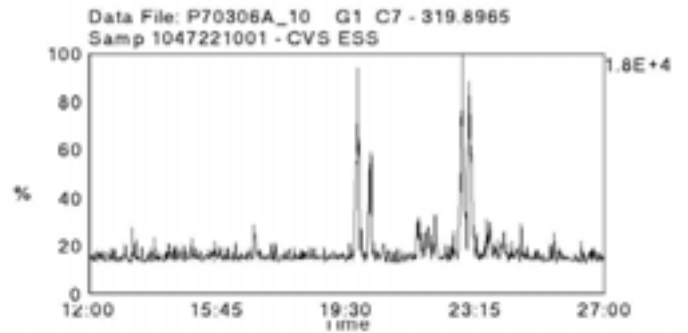
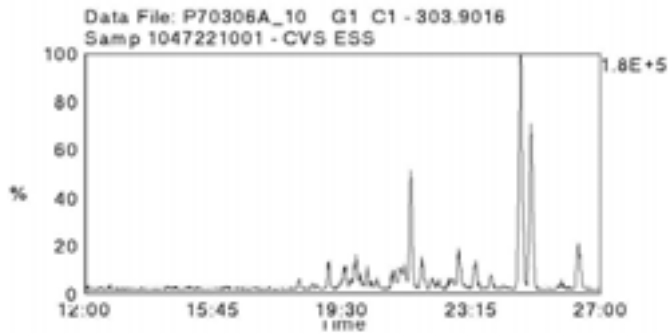
## **Appendix D**

### Sample Raw Data



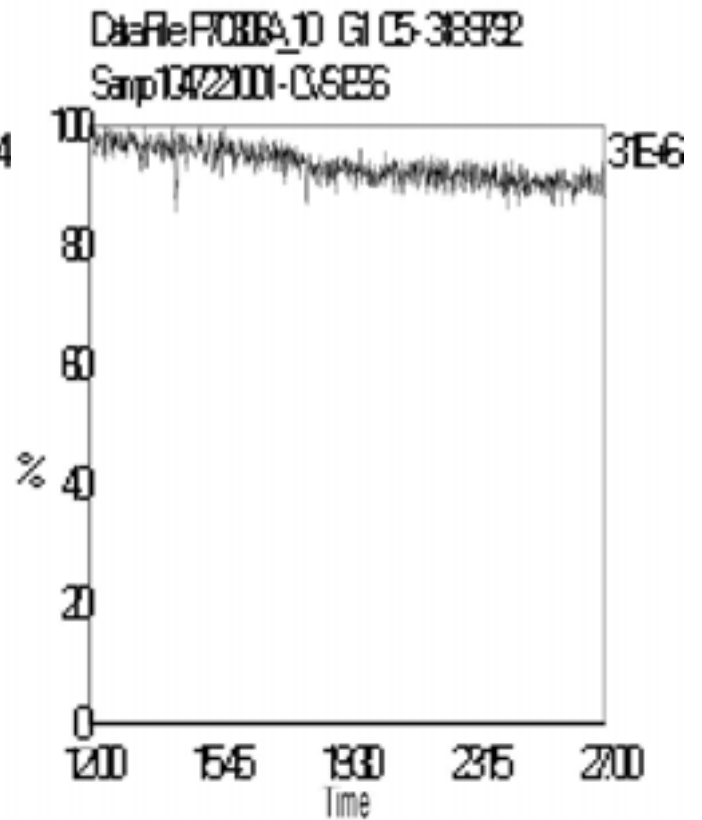
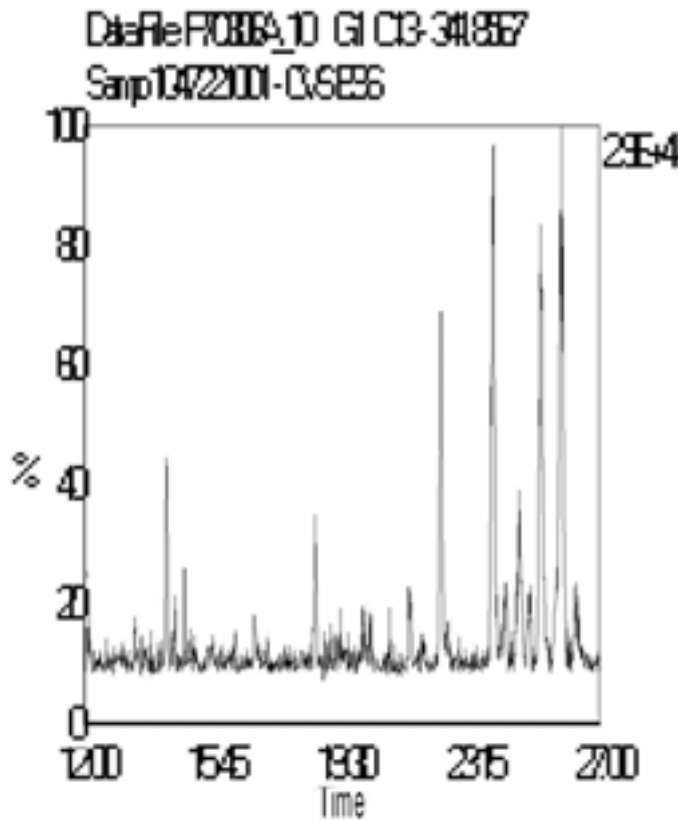
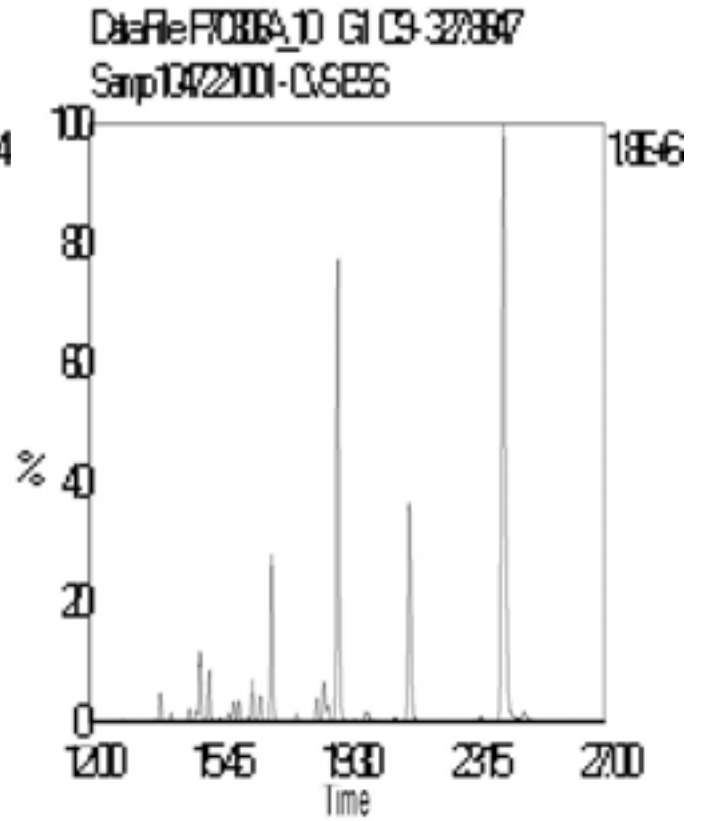
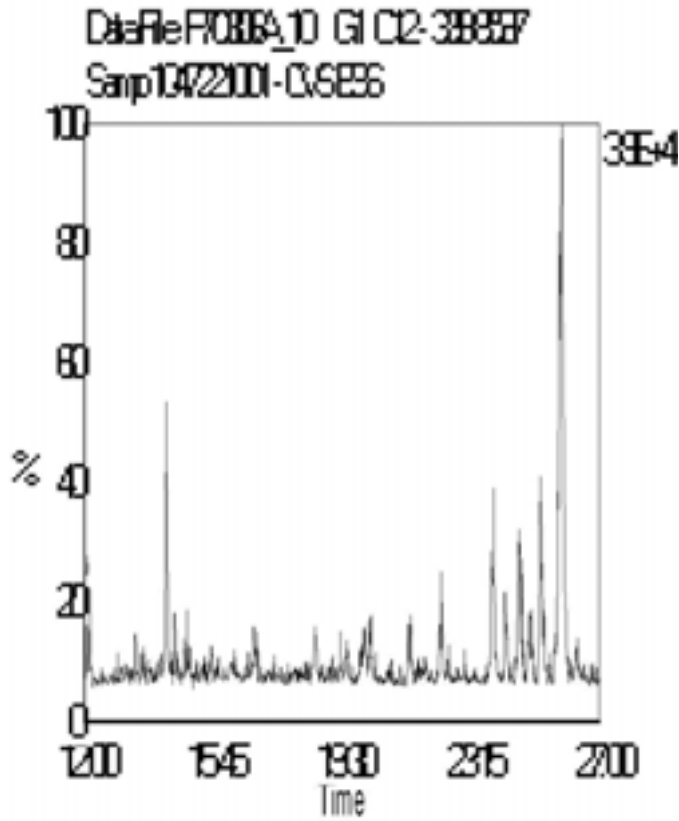
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Date Acquired: 3/6/2007  
Sample Description: Samp 1047221001 - CVS ESS

Lab Sample ID: 1047221001  
Client Sample ID: 0702344-01  
Instrument: 10MSHR09 (P)



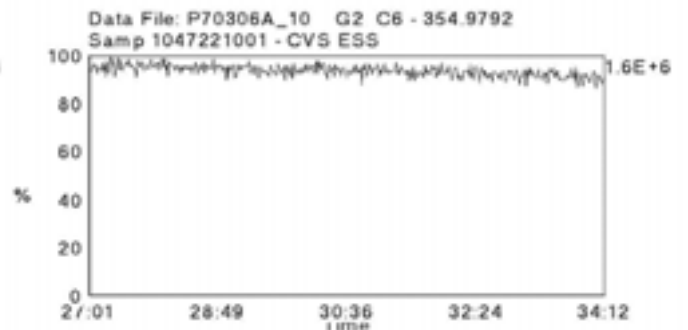
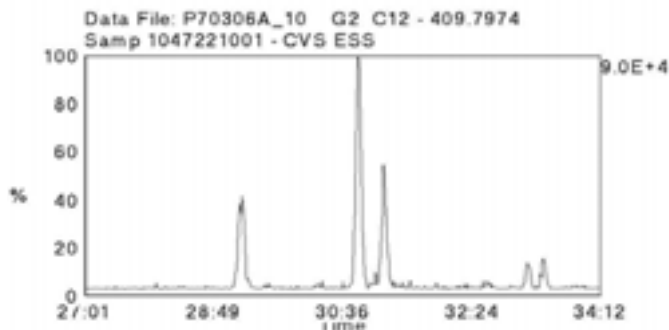
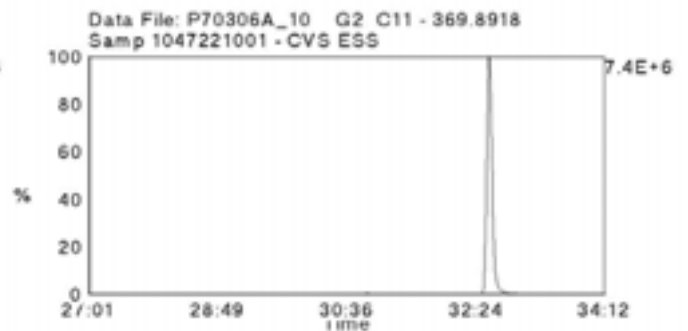
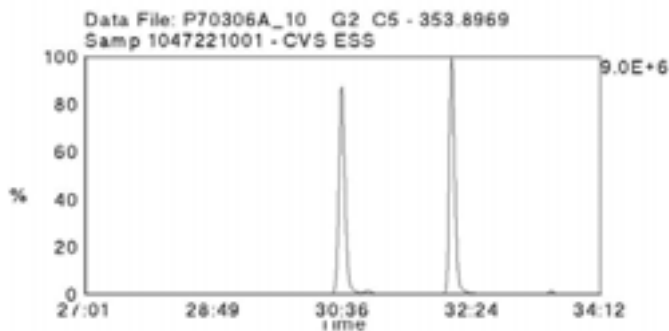
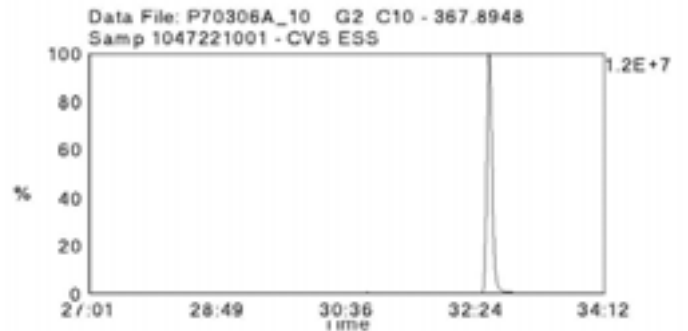
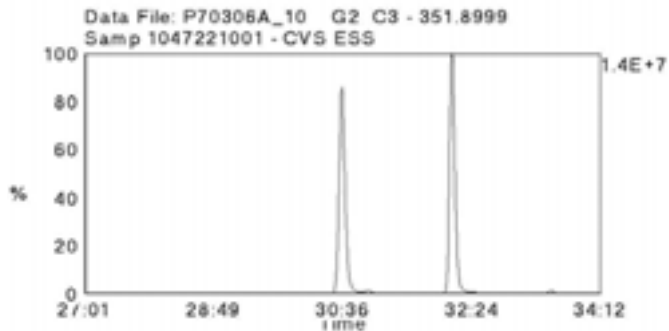
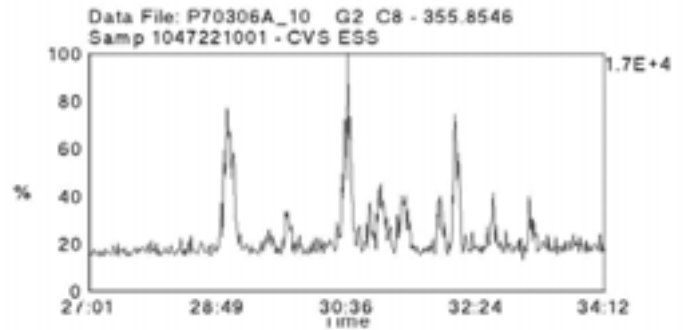
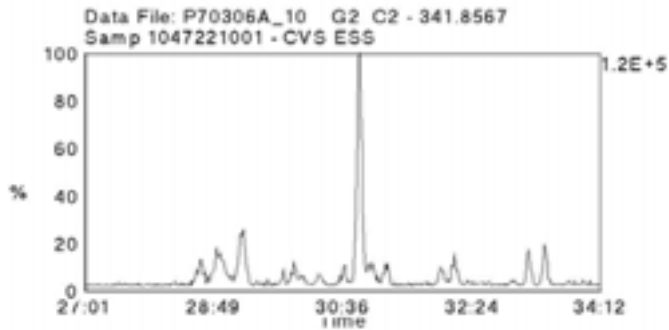
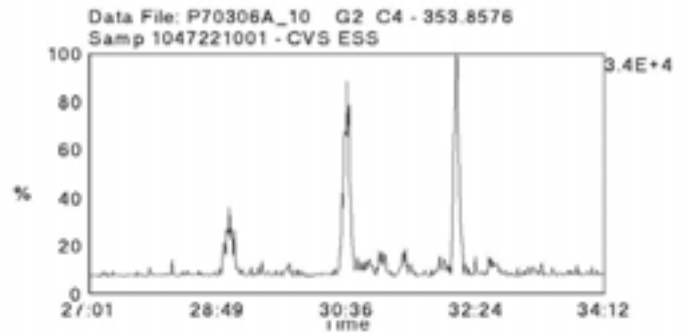
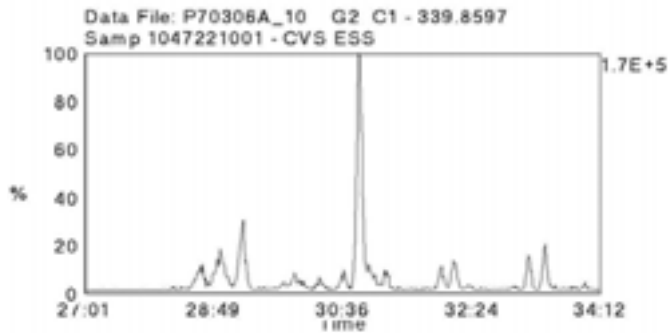
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Client Sample ID: 0702344-01  
Instrument: 10MSHR09 (P)



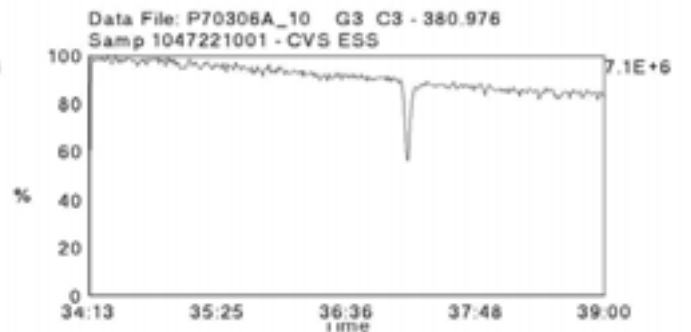
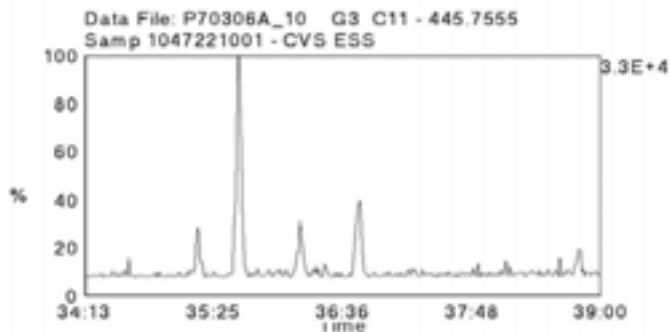
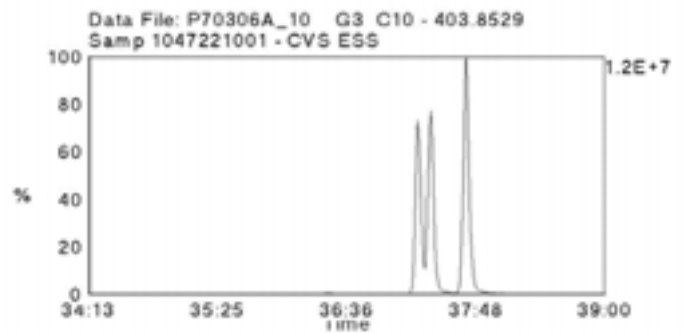
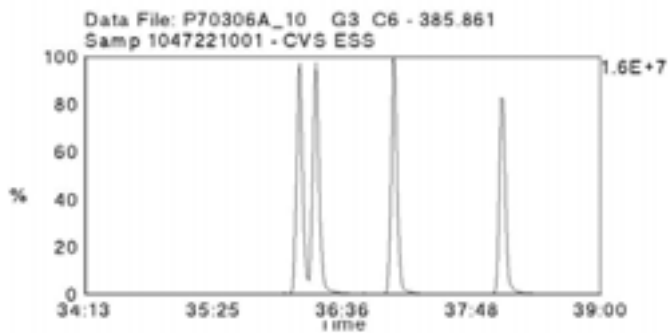
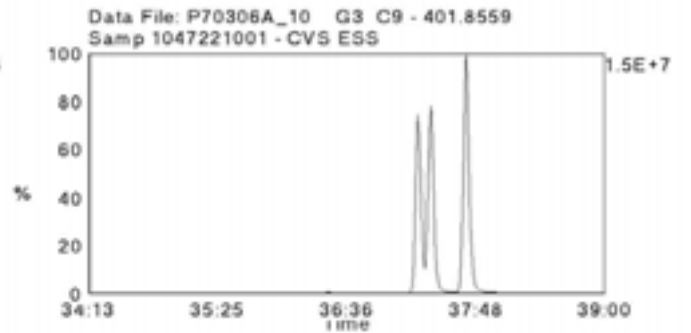
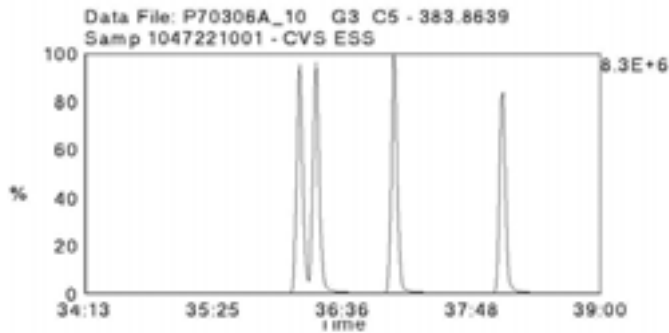
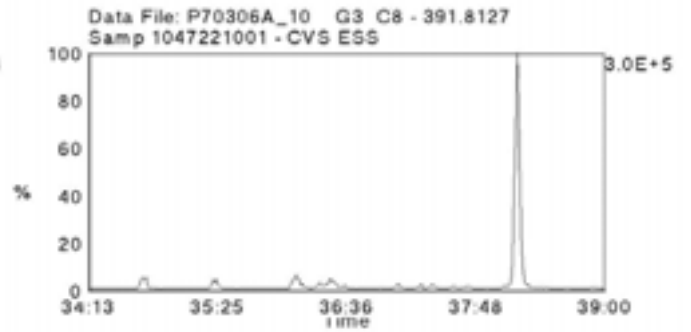
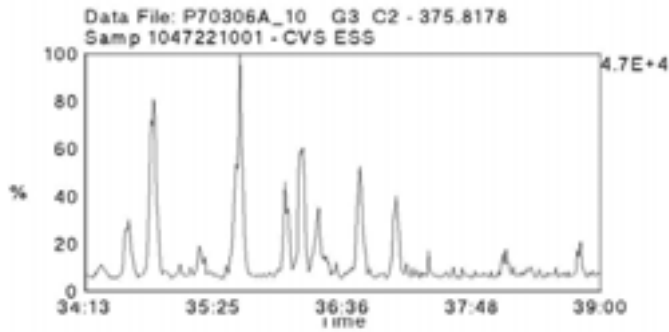
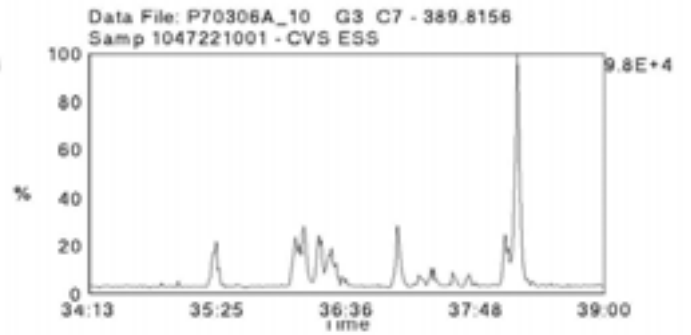
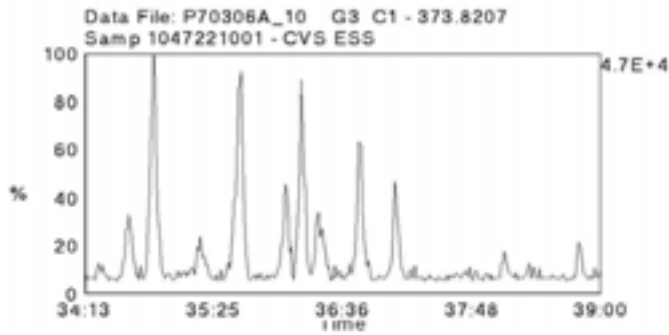
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Client Sample ID: 0702344-01  
Instrument: 10MSHR09 (P)



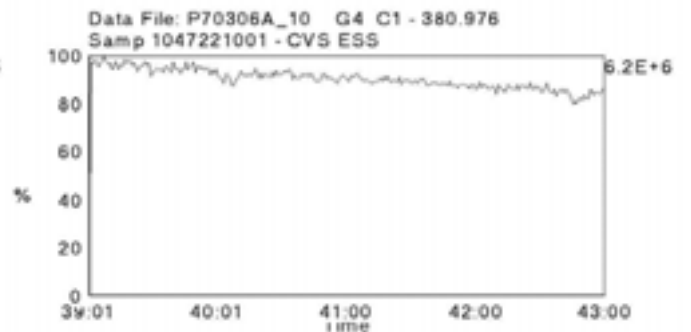
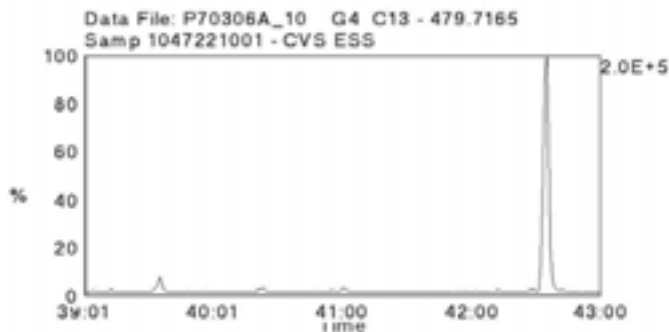
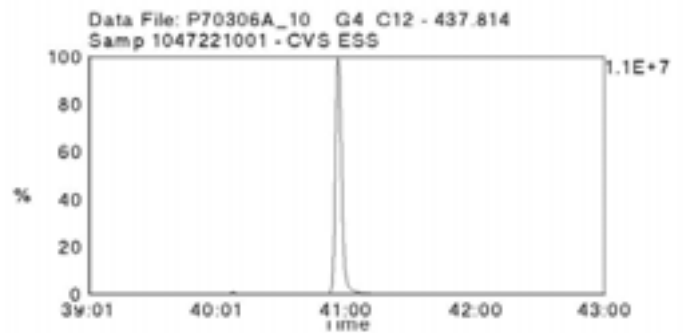
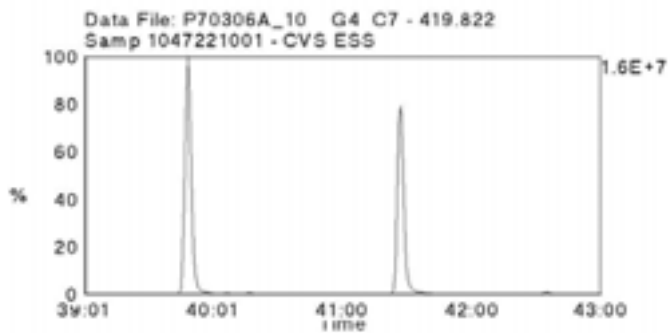
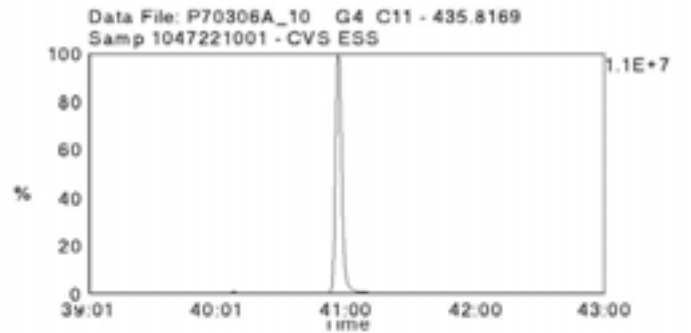
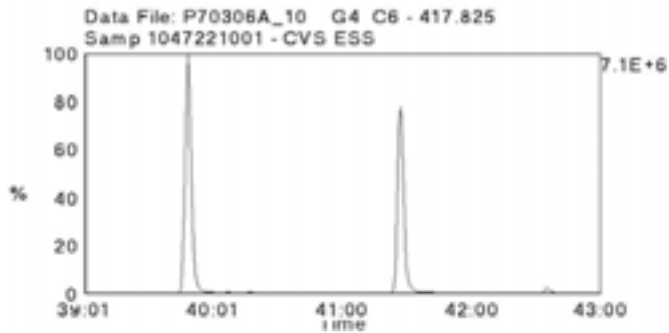
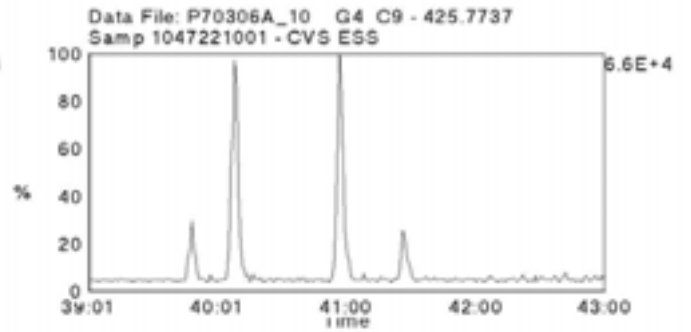
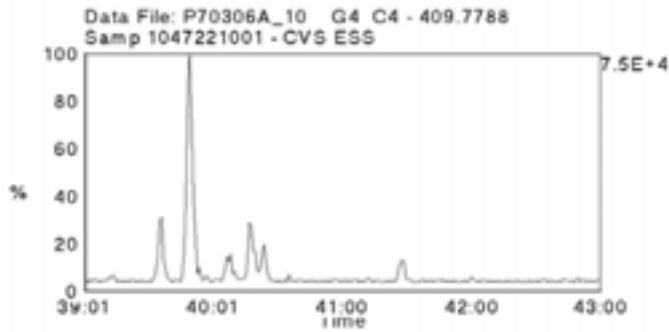
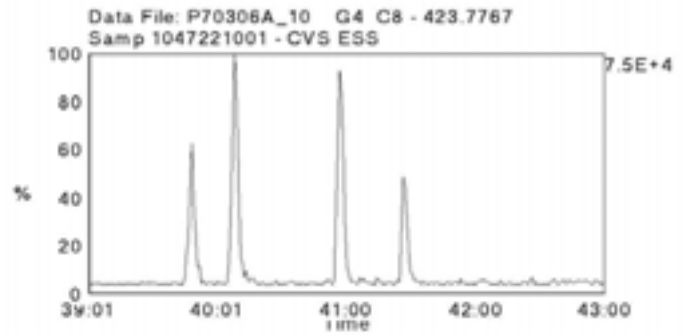
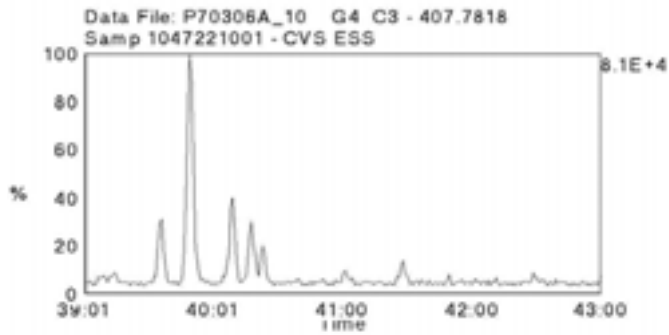
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Lab Sample ID: 1047221001  
Client Sample ID: 0702344-01  
Instrument: 10MSHR09 (P)



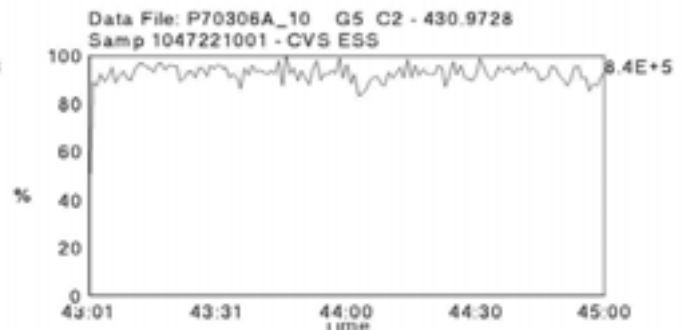
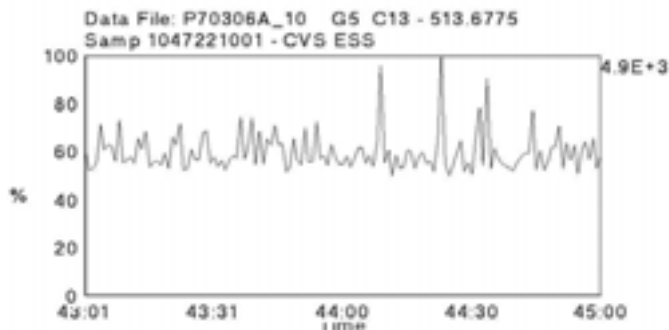
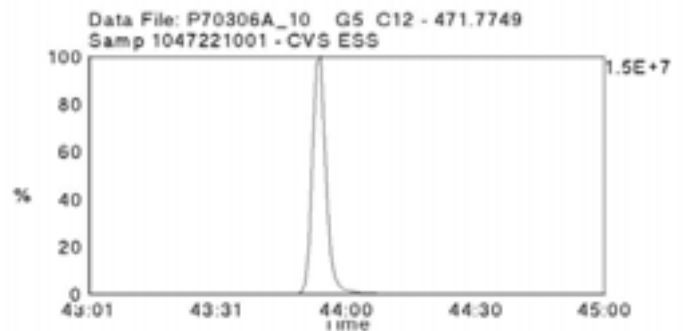
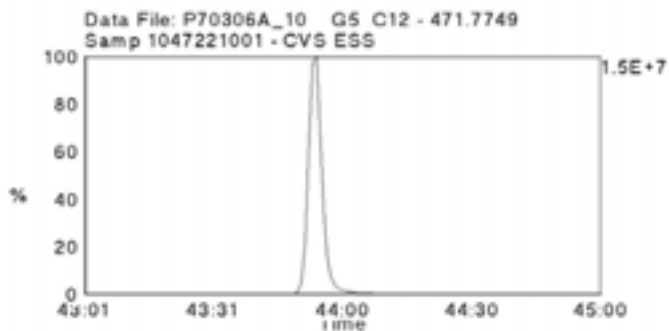
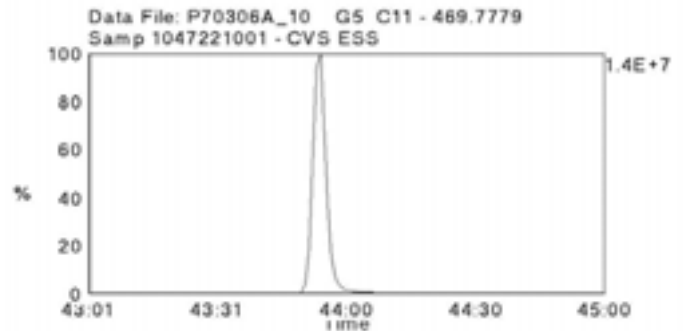
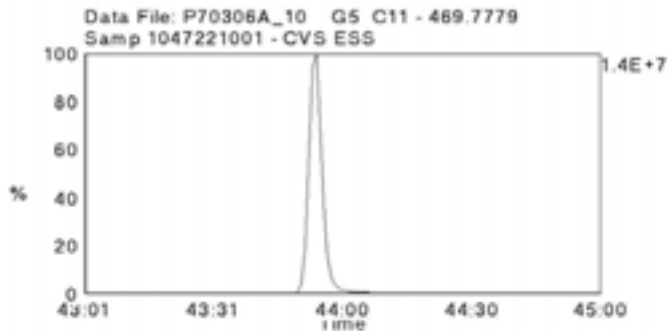
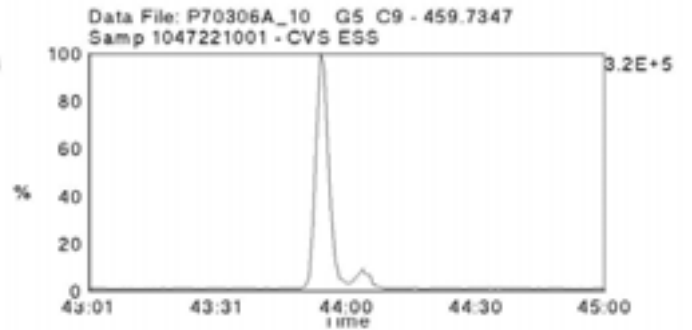
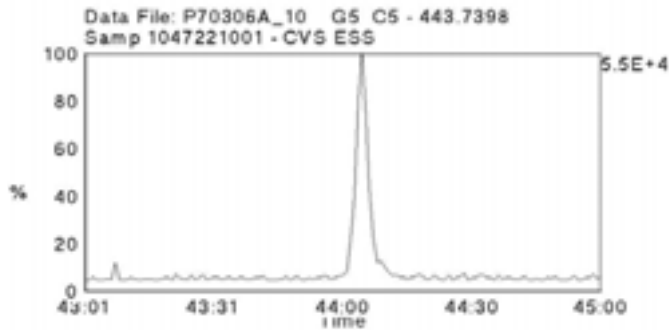
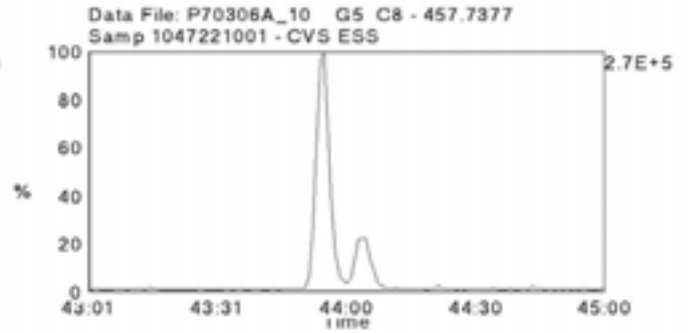
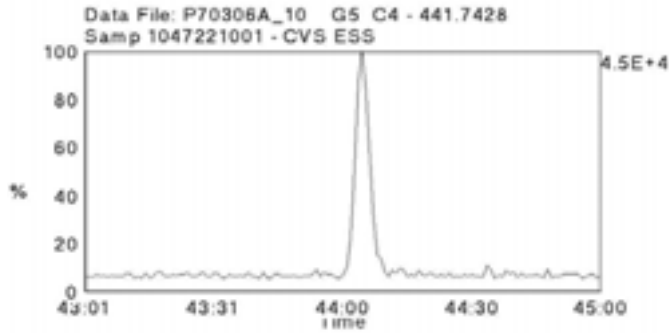
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Lab Sample ID: 1047221001  
Client Sample ID: 0702344-01  
Instrument: 10MSHR09 (P)



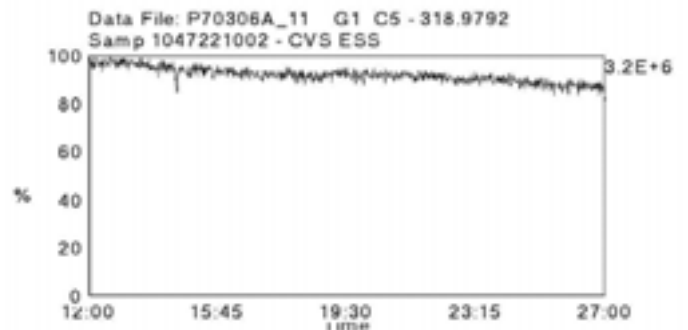
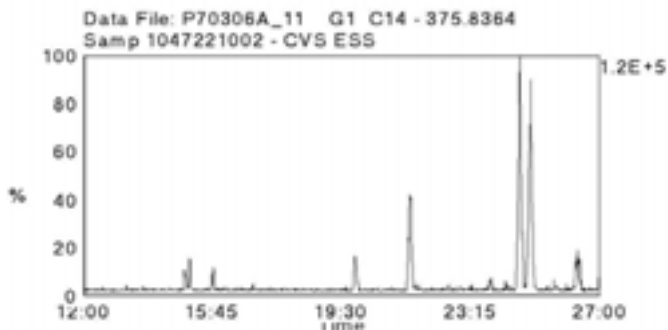
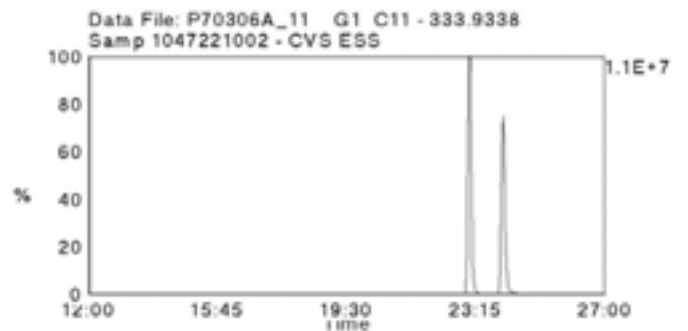
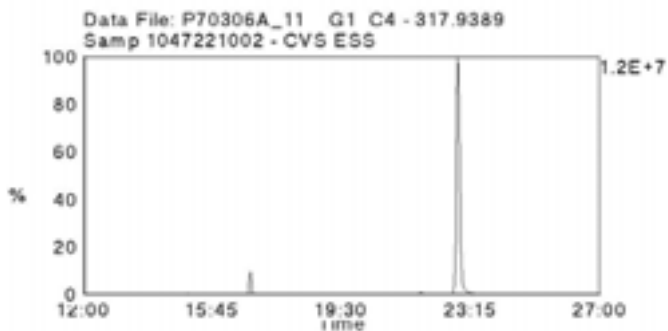
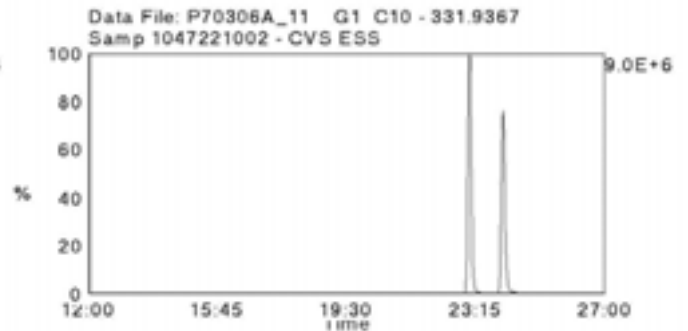
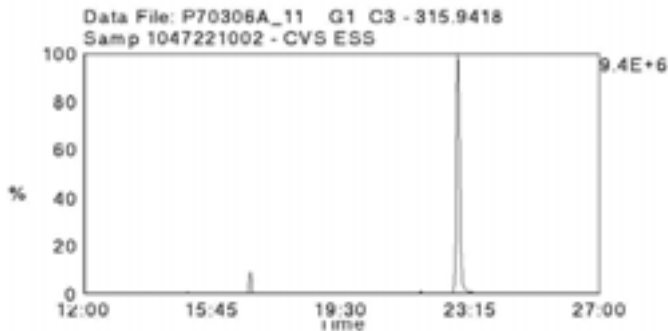
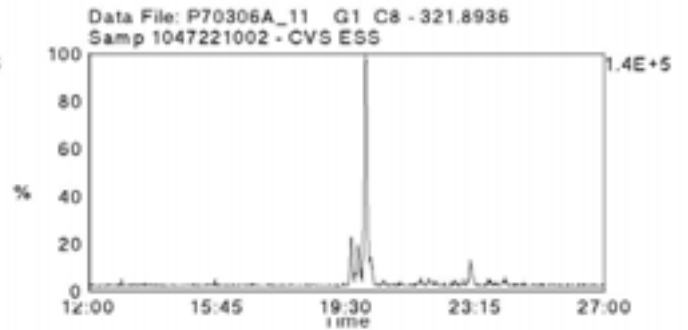
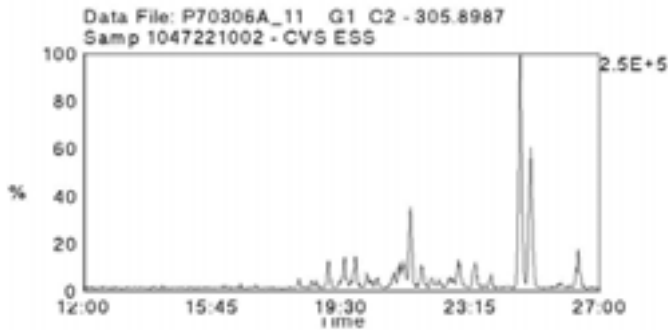
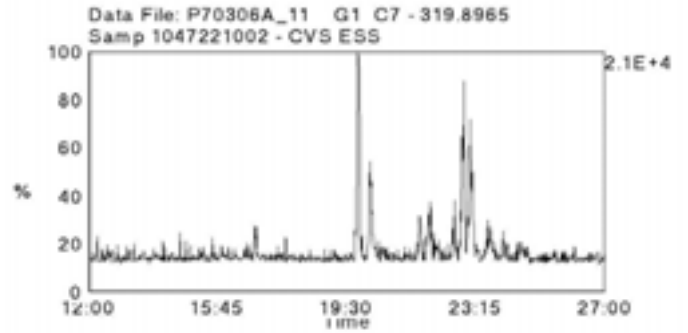
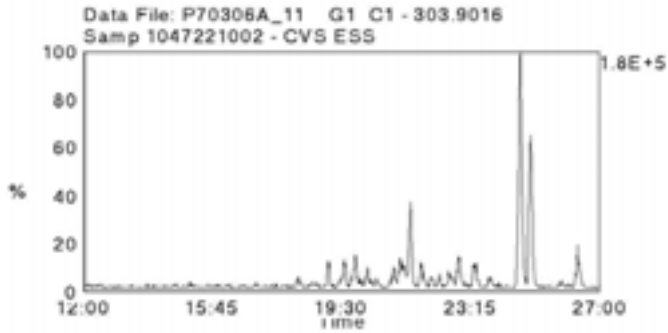
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Client Sample ID: 0702344-01  
Instrument: 10MSHR09 (P)



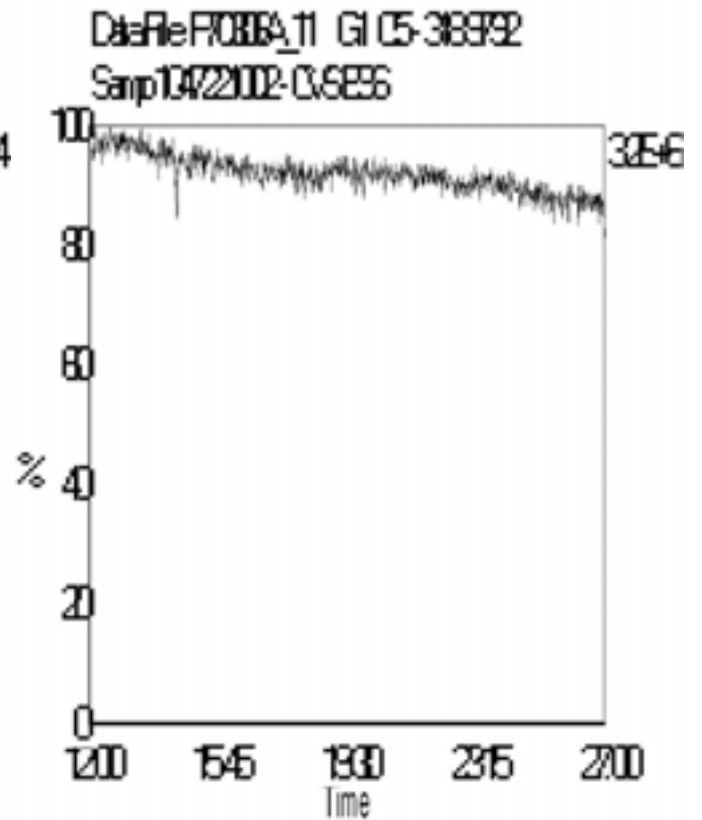
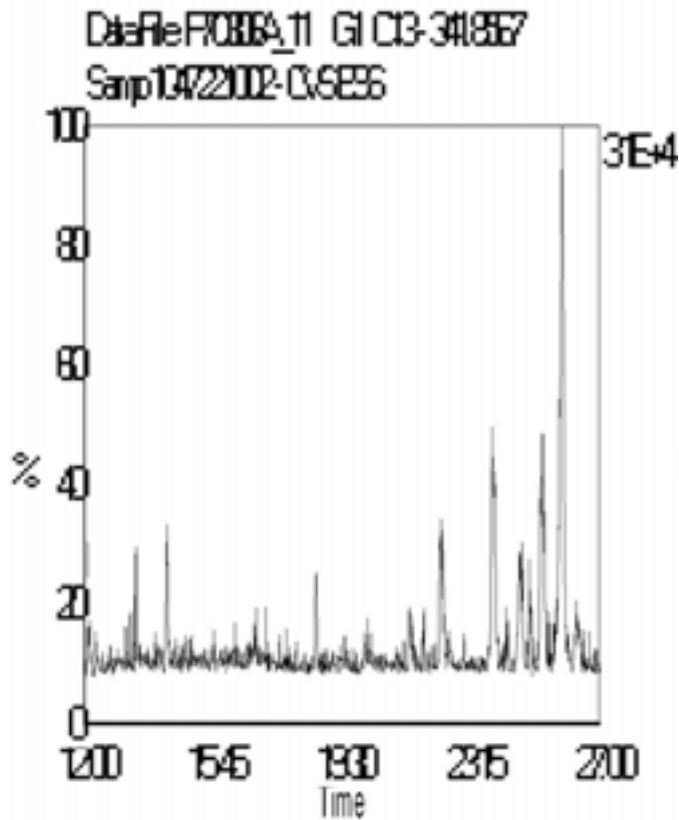
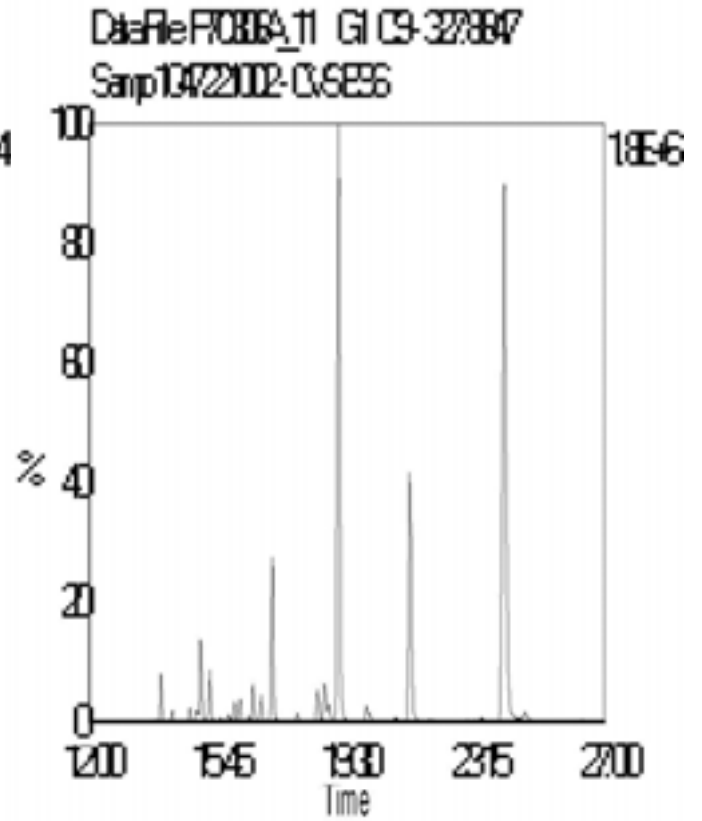
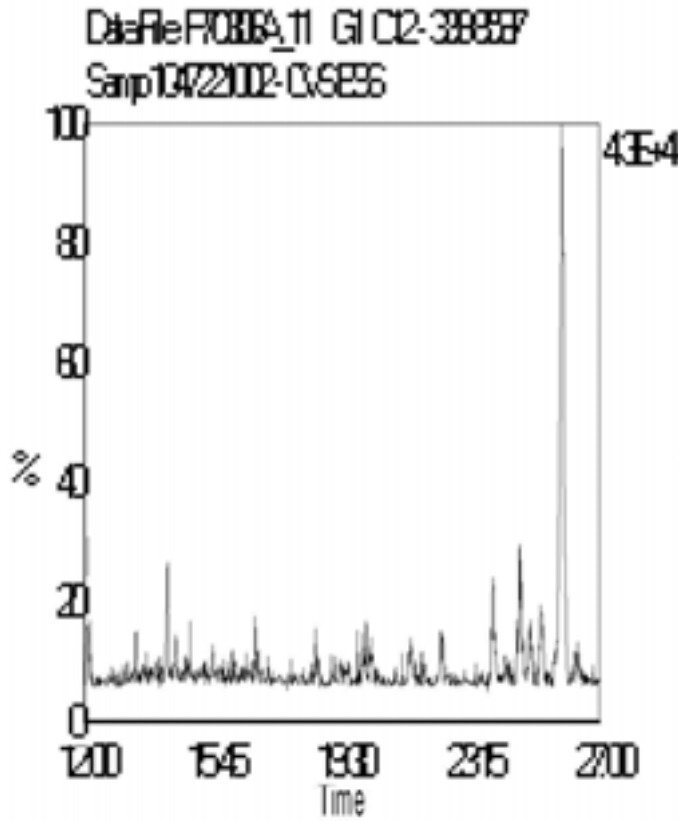
Data File Name: P70306A\_11  
Date Acquired: 3/6/2007  
Sample Description: Samp 1047221002 - CVS ESS

Lab Sample ID: 1047221002  
Client Sample ID: 0702344-02  
Instrument: 10MSHR09 (P)



Data File Name: P70306A\_11  
Date Acquired: 3/6/2007  
Sample Description: Samp 1047221002 - CVS ESS

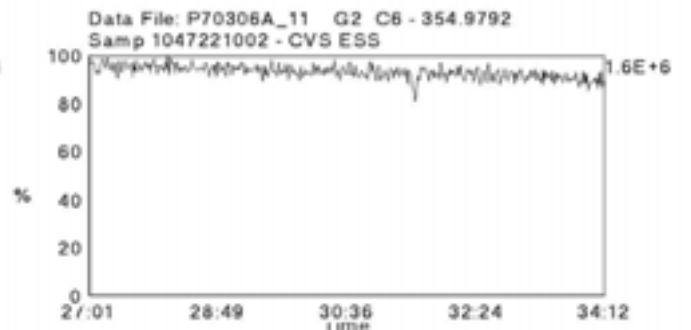
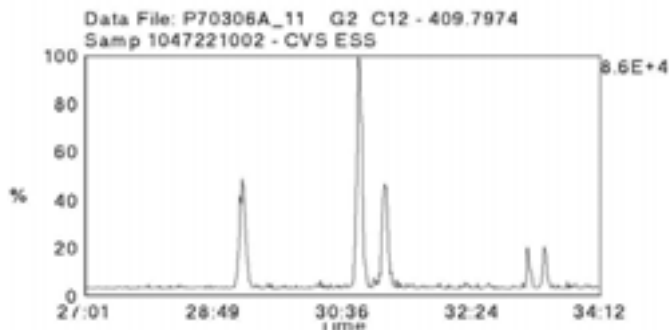
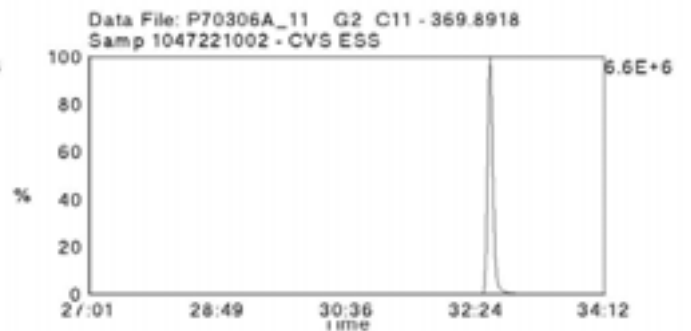
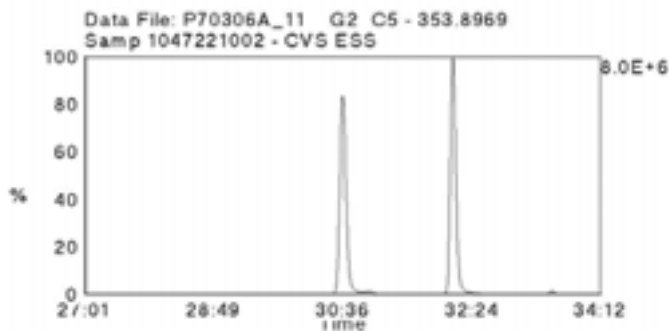
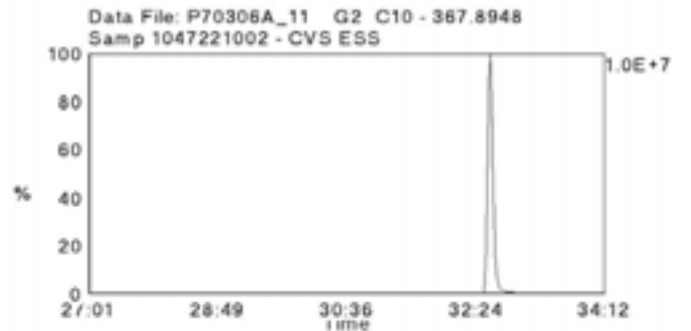
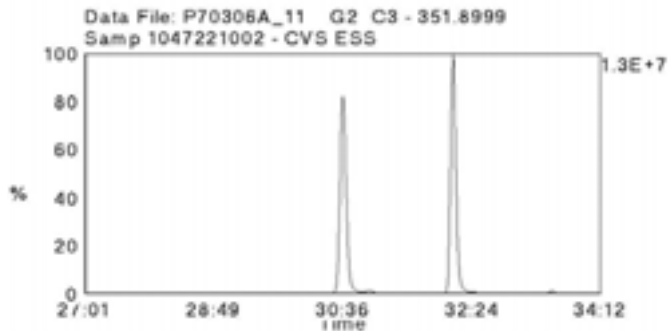
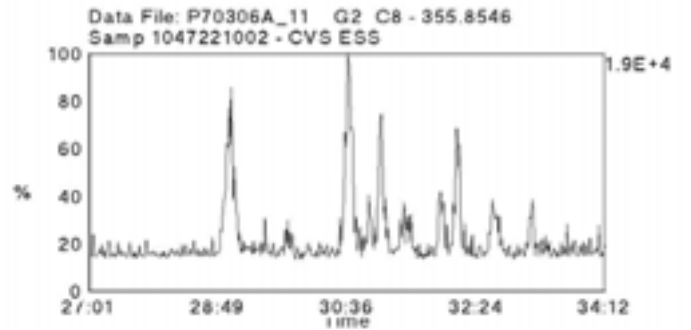
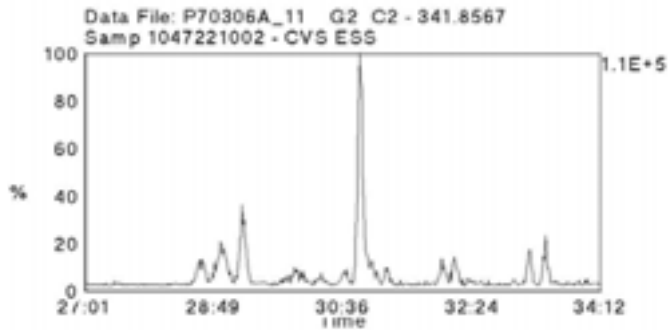
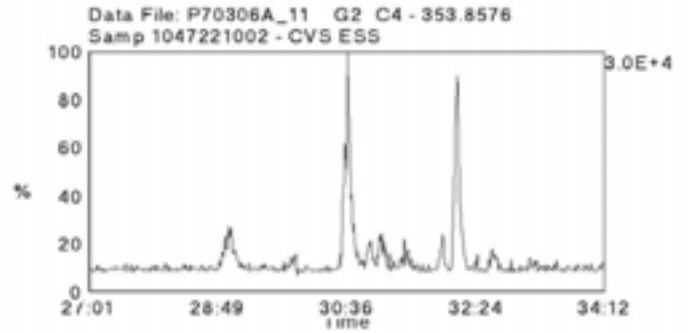
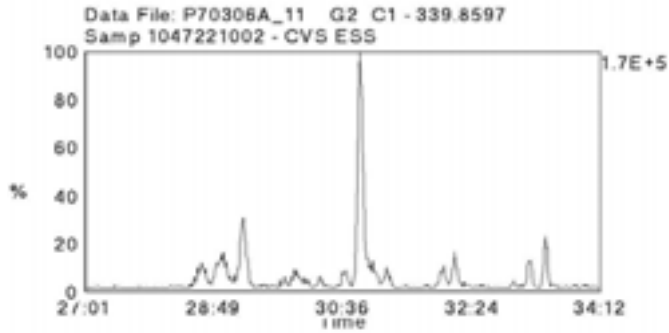
Lab Sample ID: 1047221002  
Client Sample ID: 0702344-02  
Instrument: 10MSHR09 (P)





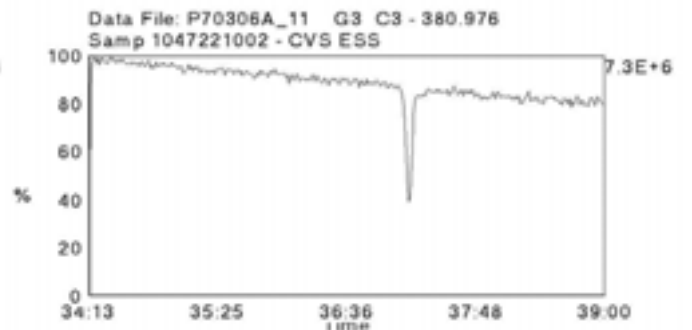
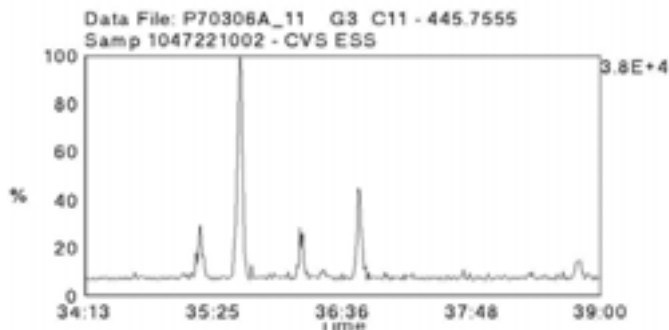
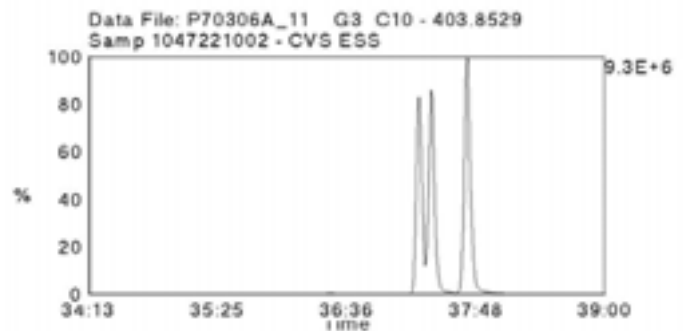
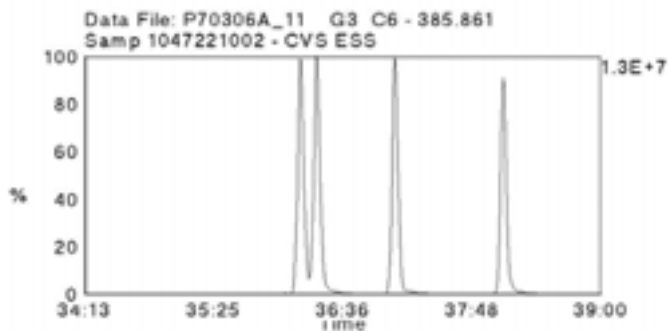
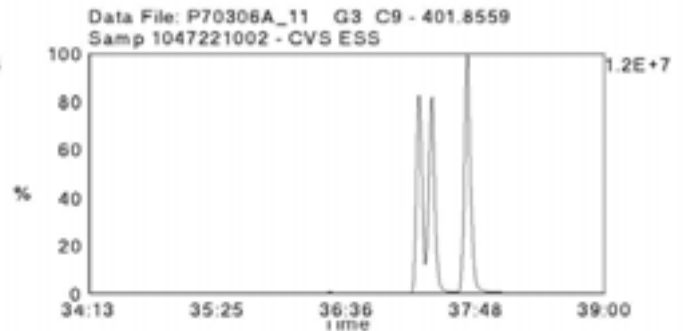
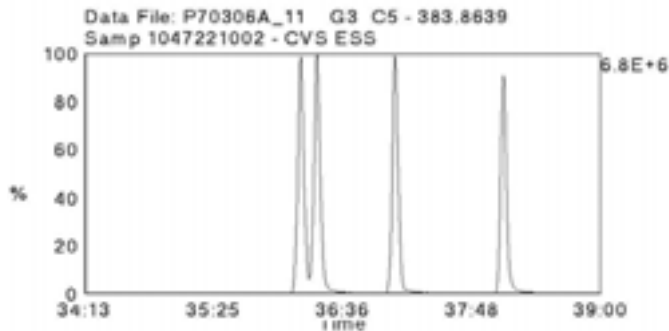
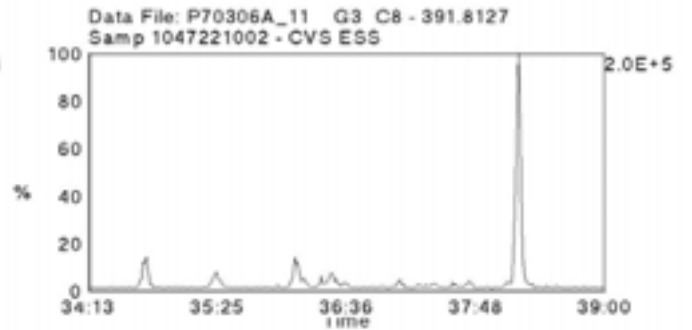
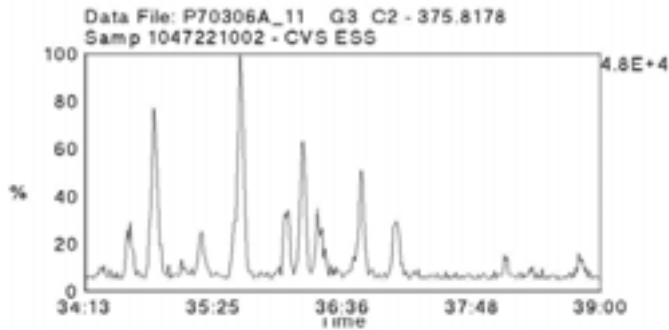
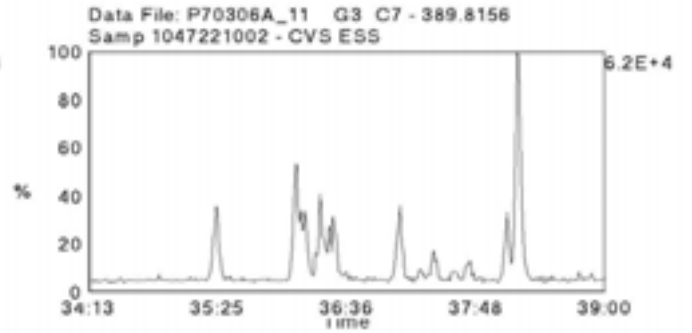
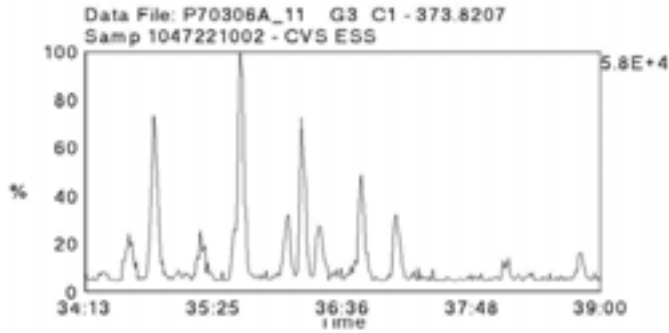
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Date Acquired: 3/6/2007  
Sample Description: Samp 1047221002 - CVS ESS

Lab Sample ID: 1047221002  
Client Sample ID: 0702344-02  
Instrument: 10MSHR09 (P)



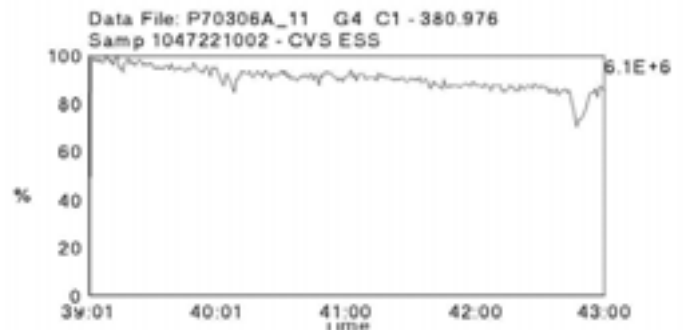
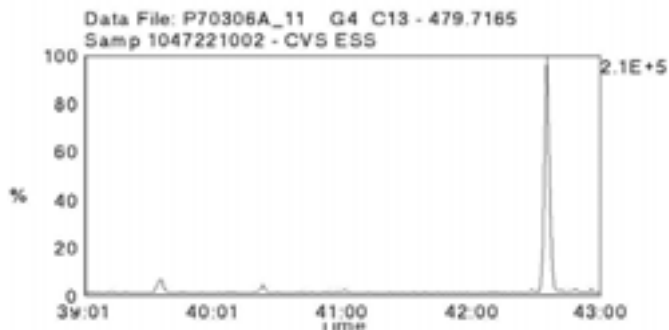
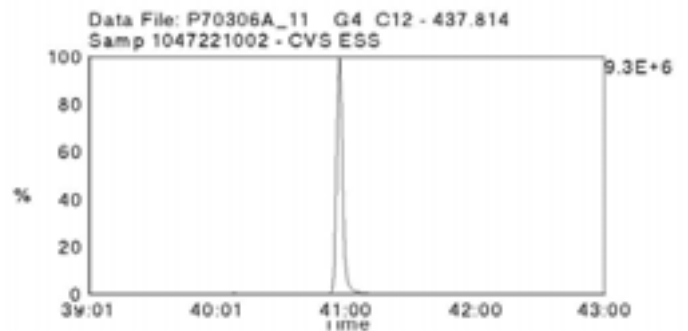
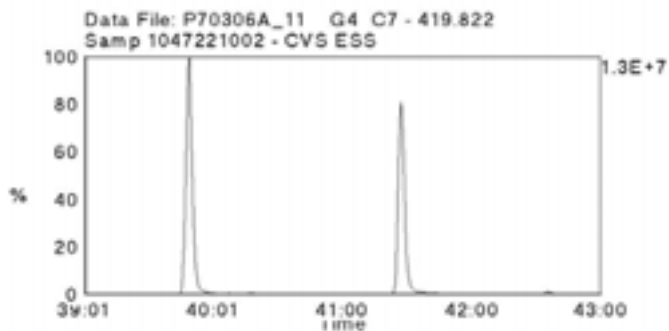
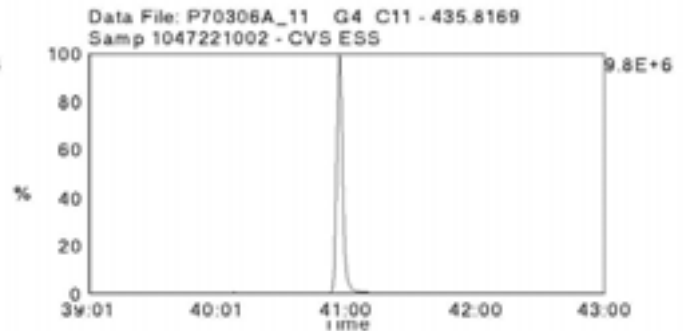
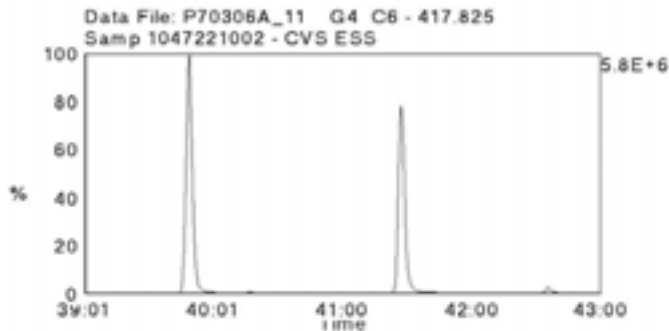
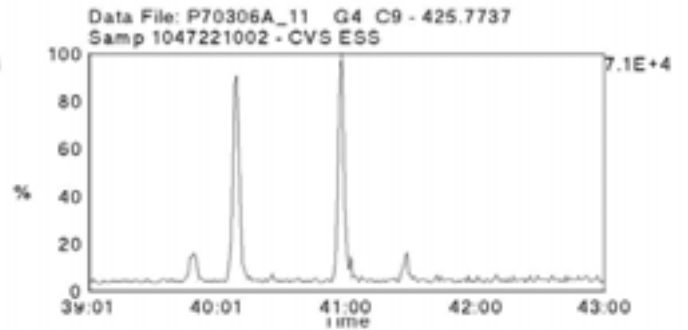
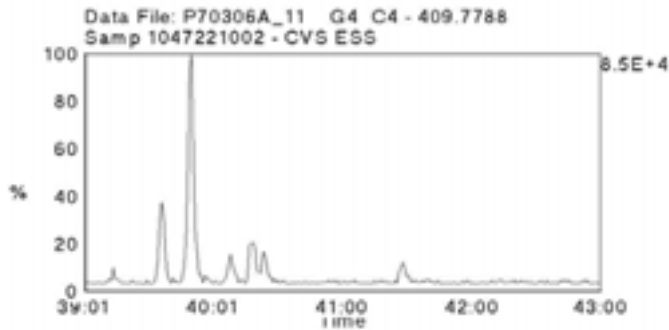
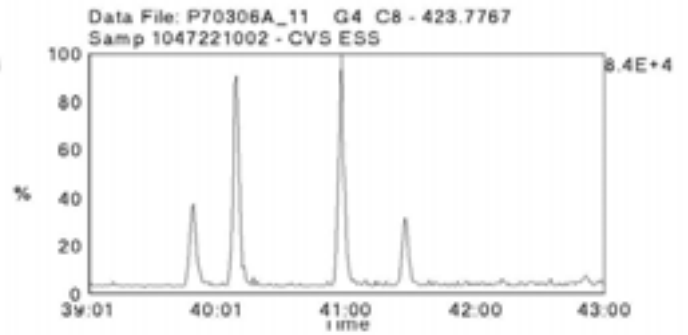
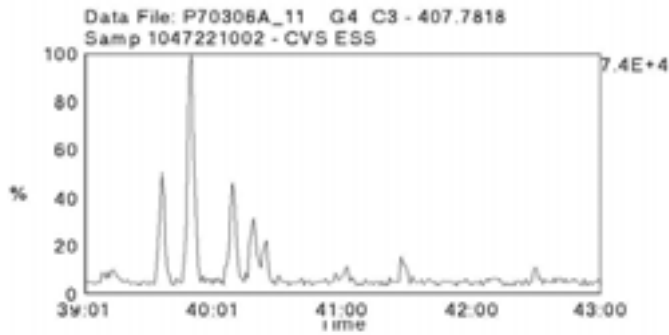
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Sample Description: Samp 1047221002 - CVS ESS

Lab Sample ID: 1047221002  
Client Sample ID: 0702344-02  
Instrument: 10MSHR09 (P)



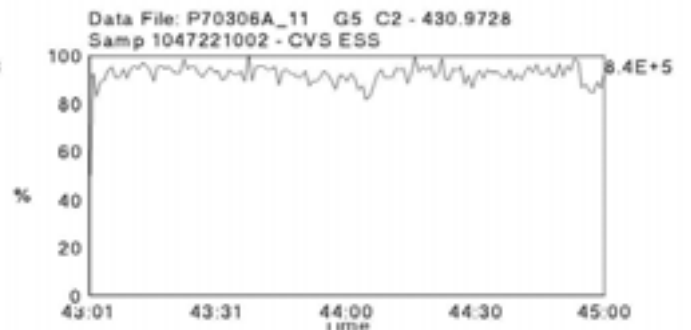
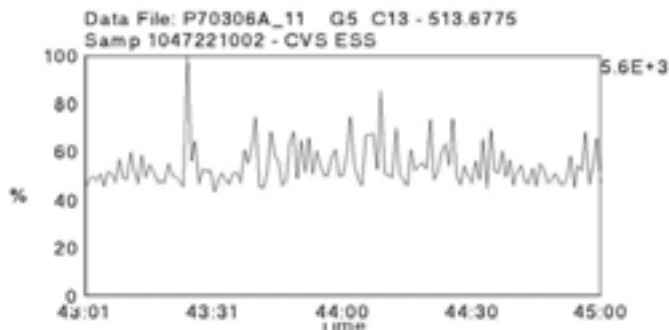
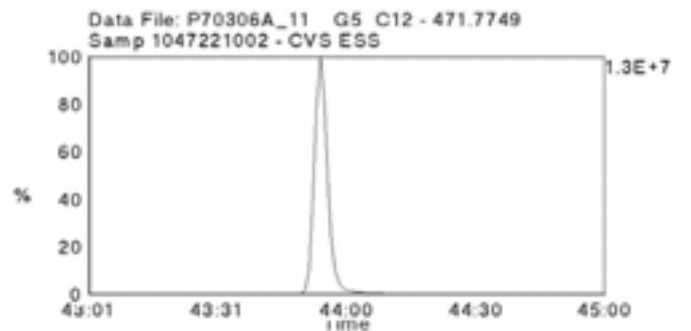
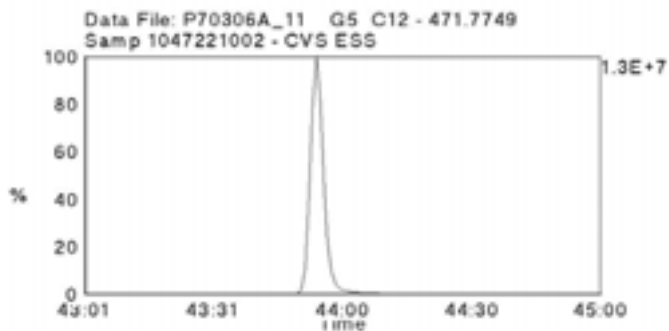
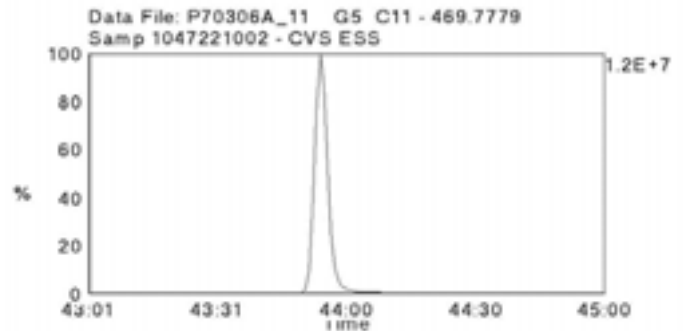
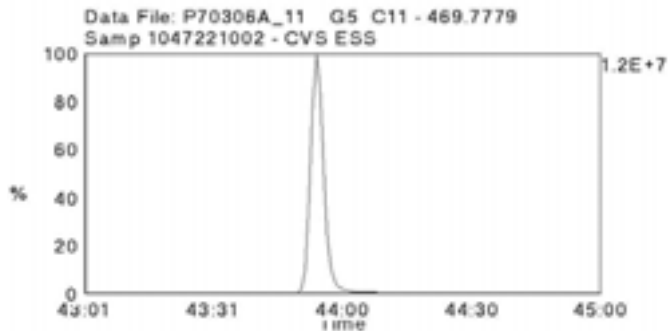
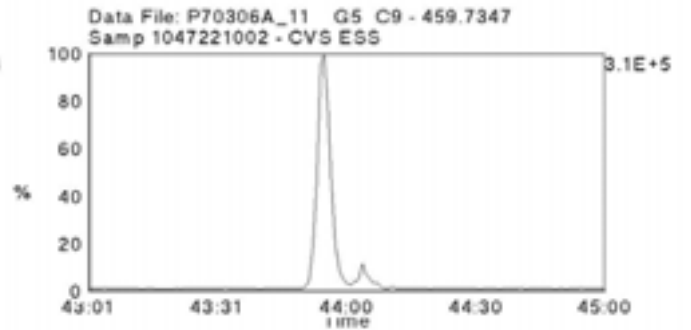
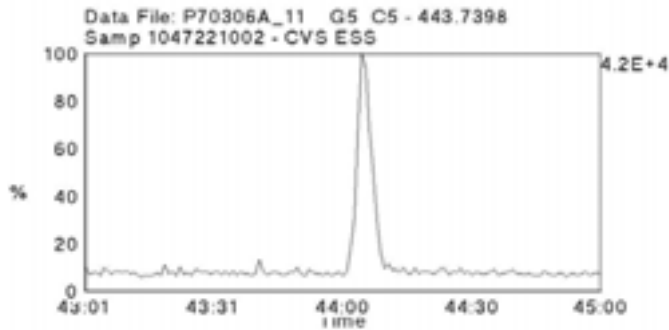
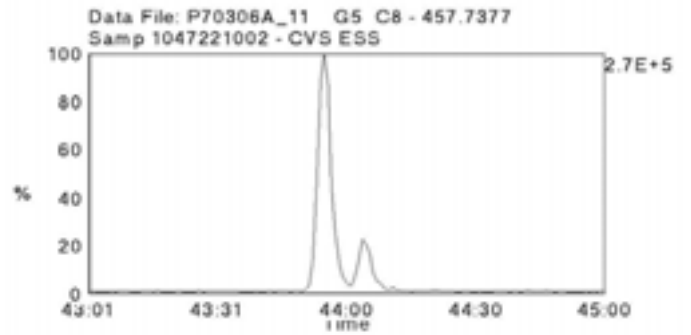
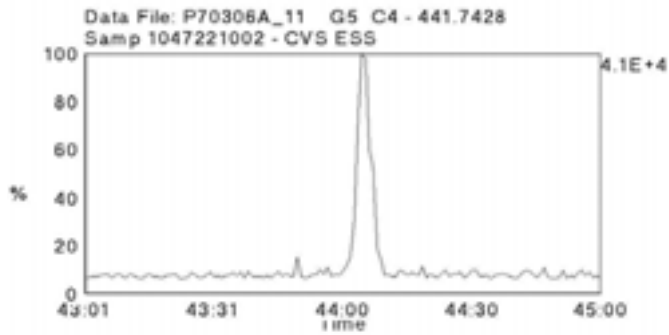
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Date Acquired: 3/6/2007  
Sample Description: Samp 1047221002 - CVS ESS

Lab Sample ID: 1047221002  
Client Sample ID: 0702344-02  
Instrument: 10MSHR09 (P)



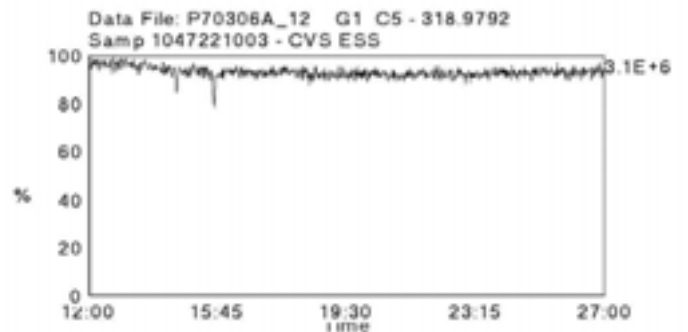
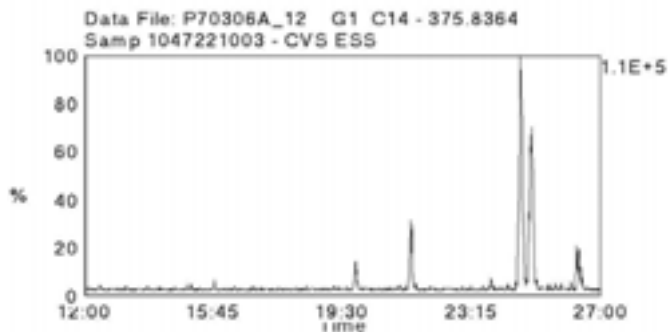
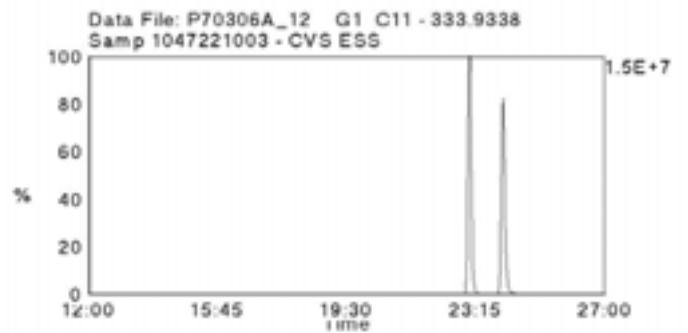
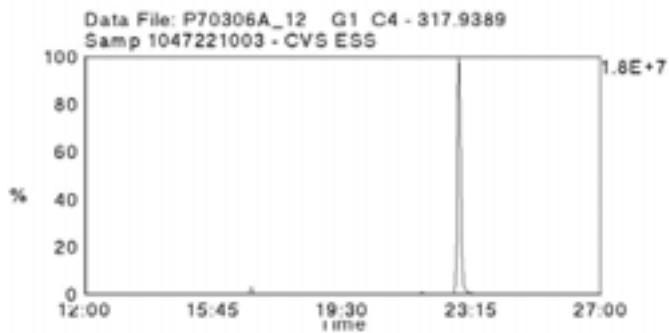
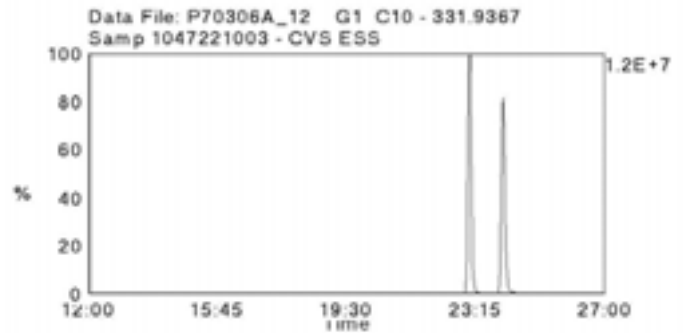
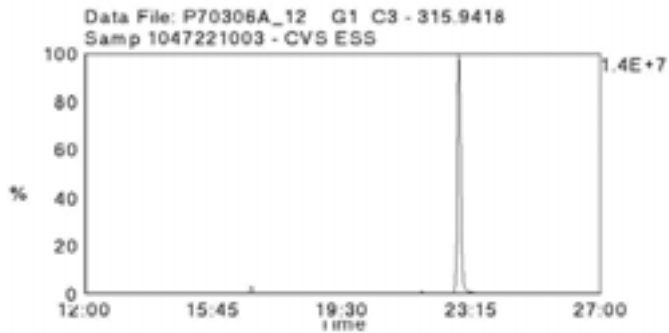
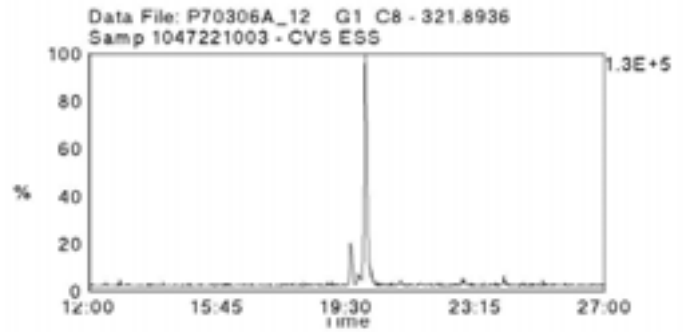
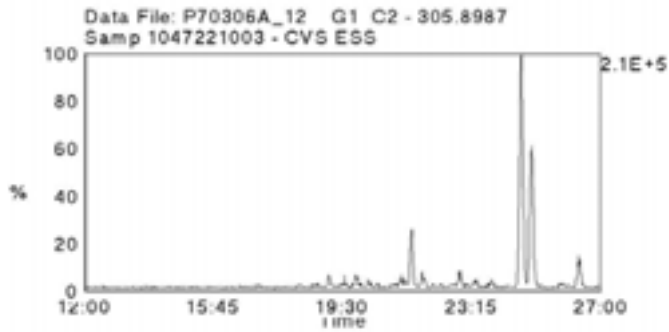
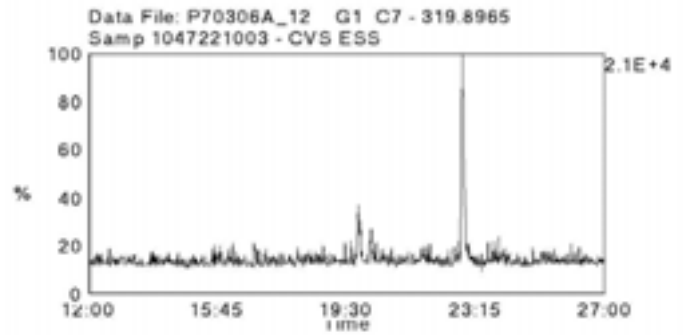
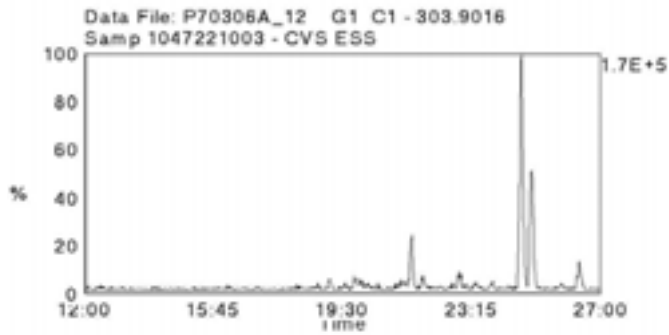
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Sample Description: Samp 1047221002 - CVS ESS

Lab Sample ID: 1047221002  
Client Sample ID: 0702344-02  
Instrument: 10MSHR09 (P)



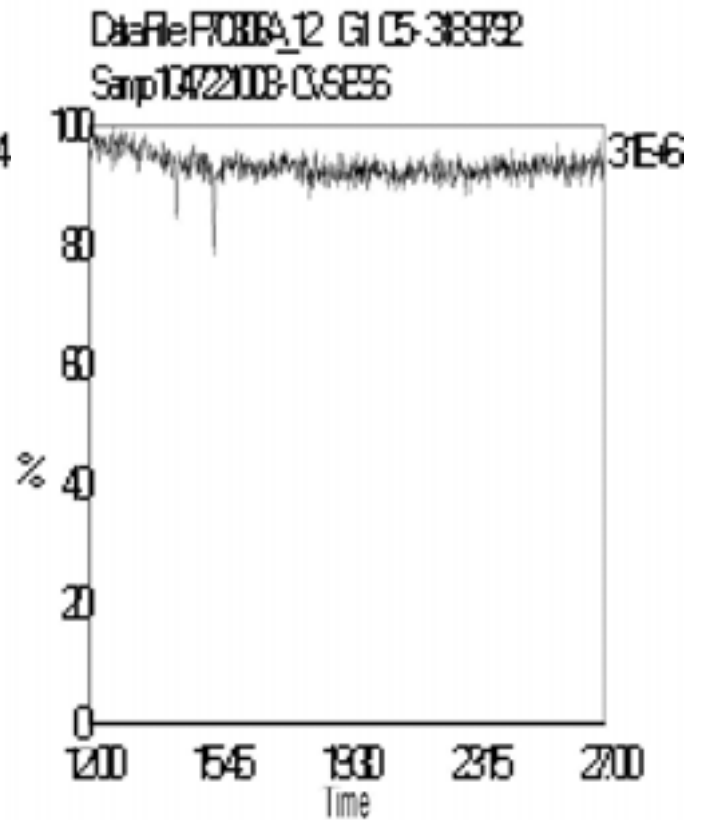
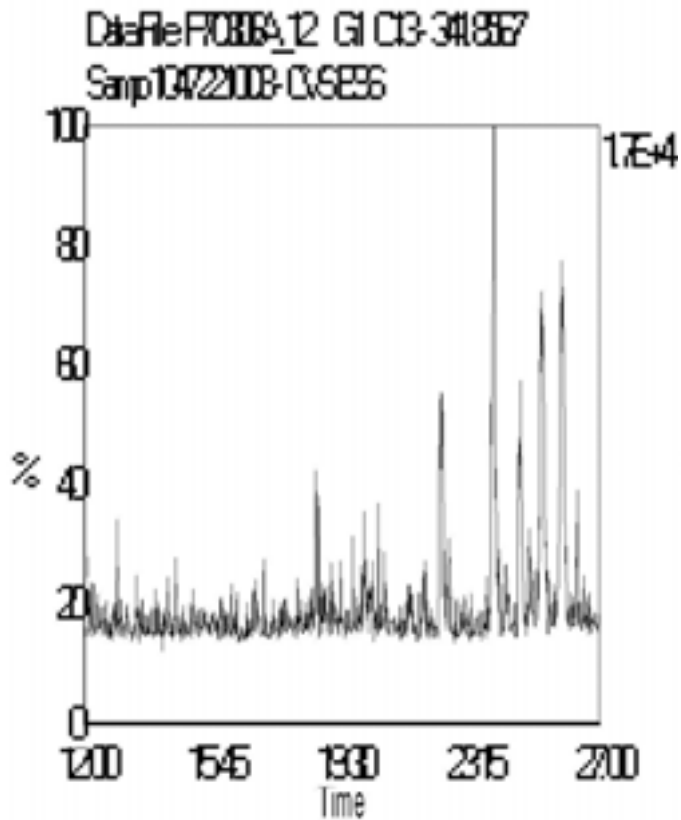
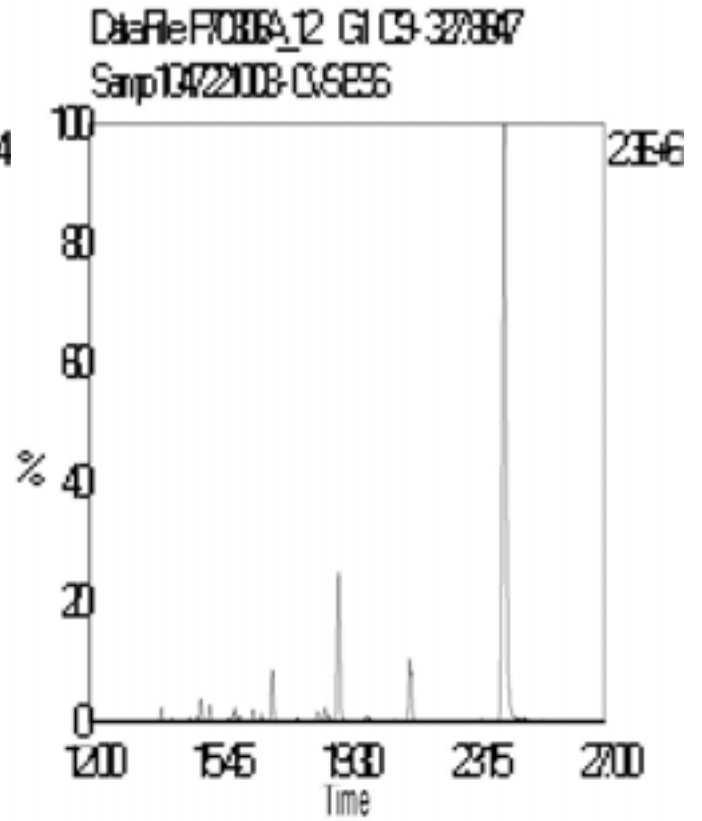
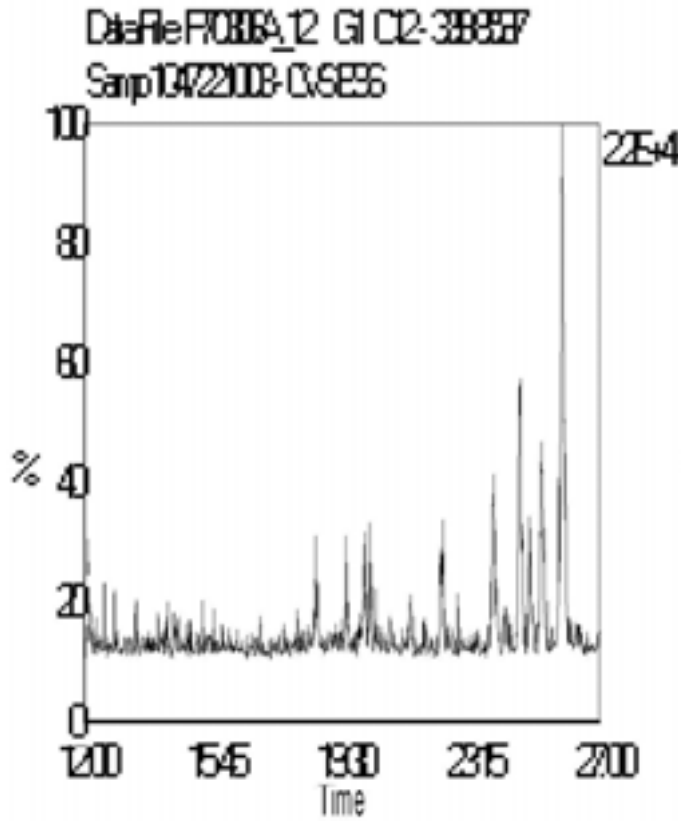
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Date Acquired: 3/6/2007  
Sample Description: Samp 1047221003 - CVS ESS

Lab Sample ID: 1047221003  
Client Sample ID: 0702344-03  
Instrument: 10MSHR09 (P)



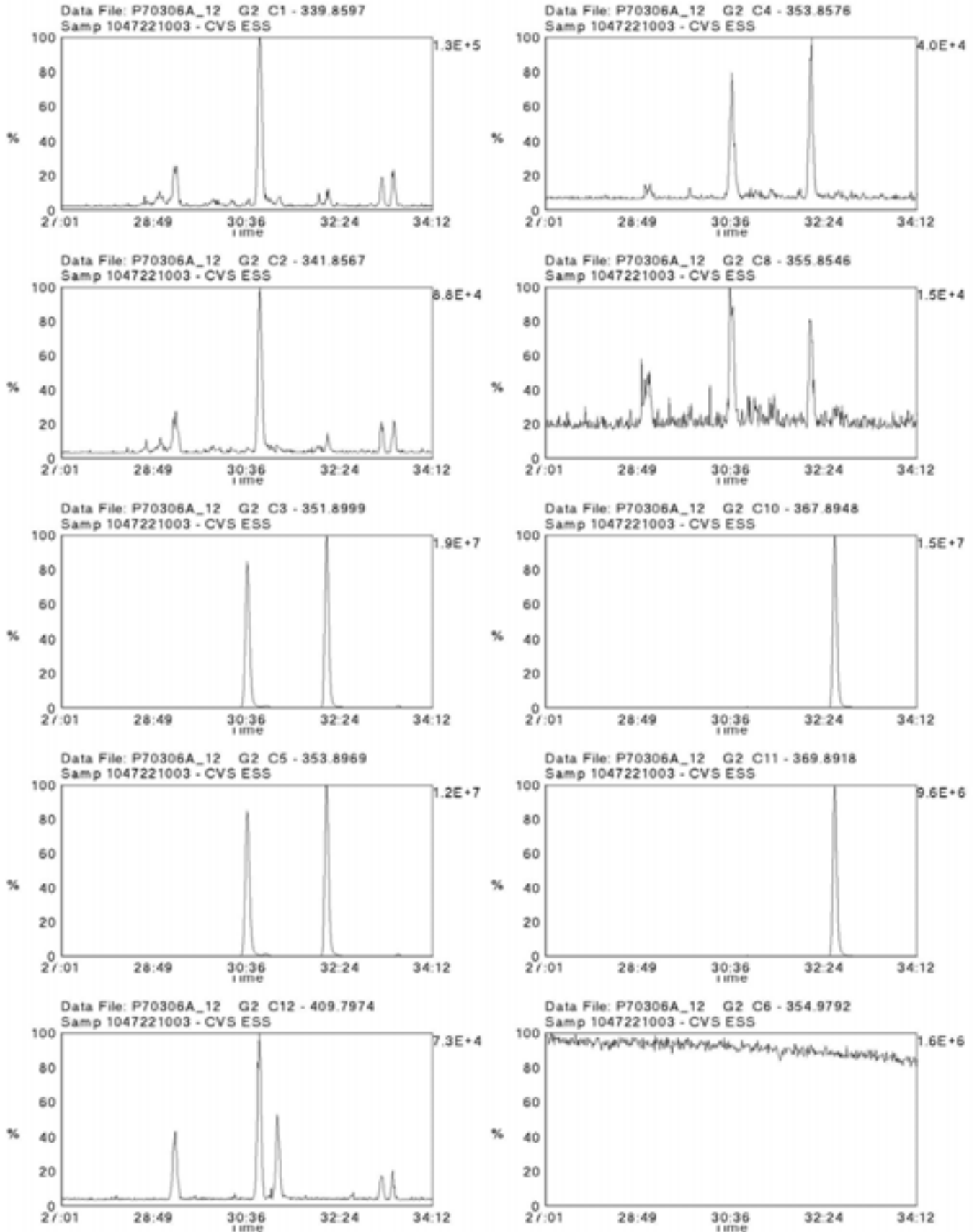
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Date Acquired: 3/6/2007  
Sample Description: Samp 1047221003 - CVS ESS

Lab Sample ID: 1047221003  
Client Sample ID: 0702344-03  
Instrument: 10MSHR09 (P)



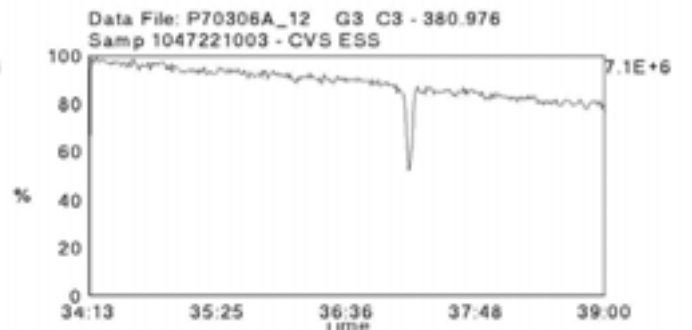
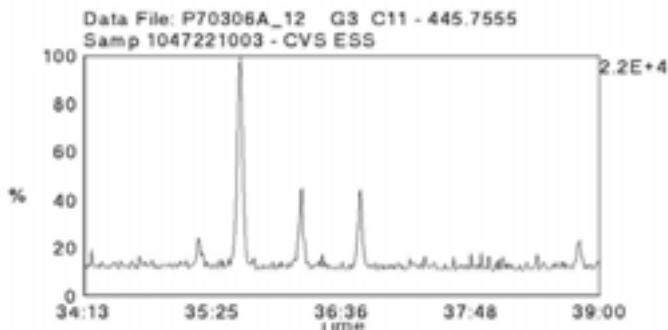
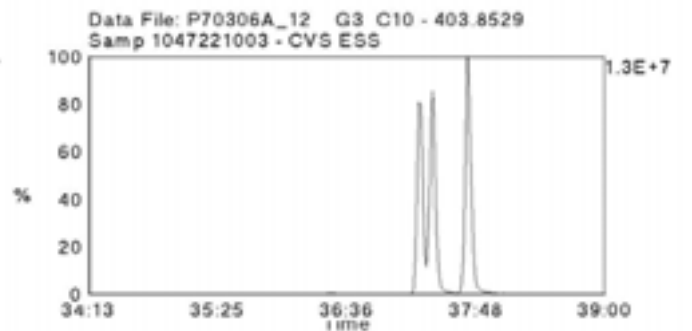
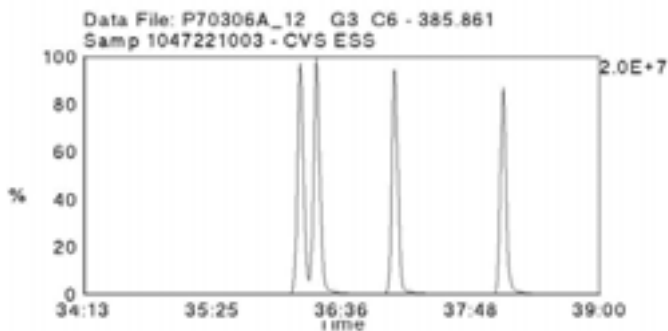
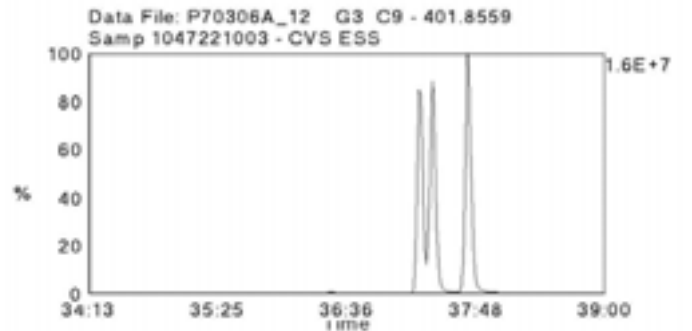
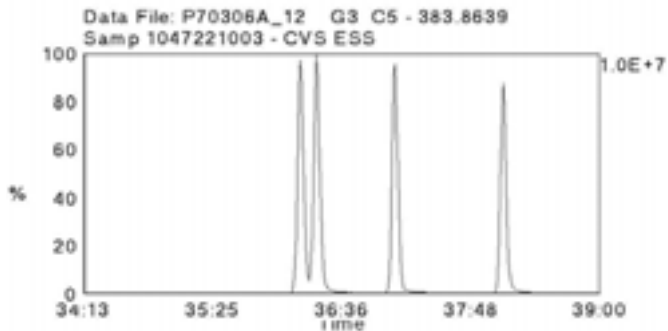
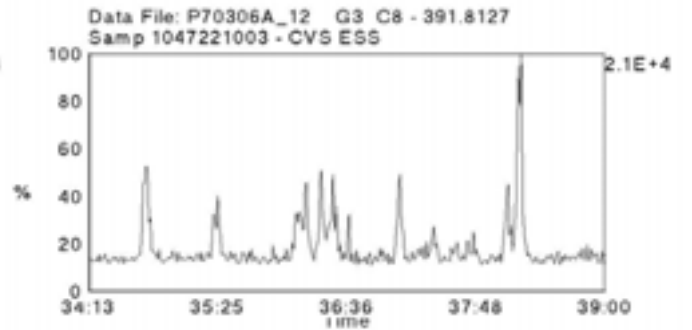
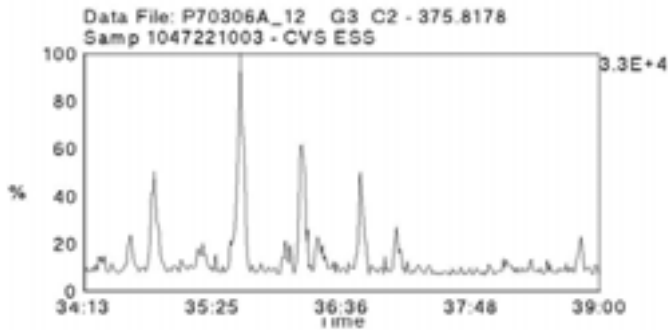
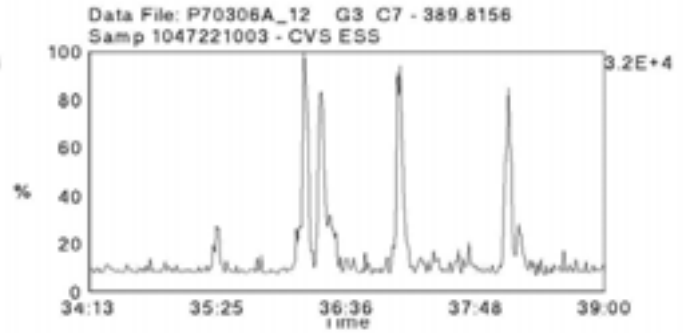
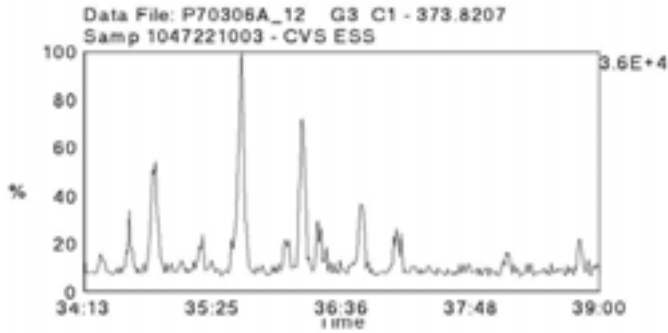
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Date Acquired: 3/6/2007  
Sample Description: Samp 1047221003 - CVS ESS

Lab Sample ID: 1047221003  
Client Sample ID: 0702344-03  
Instrument: 10MSHR09 (P)



Data File Name: P70306A\_12  
Date Acquired: 3/6/2007  
Sample Description: Samp 1047221003 - CVS ESS

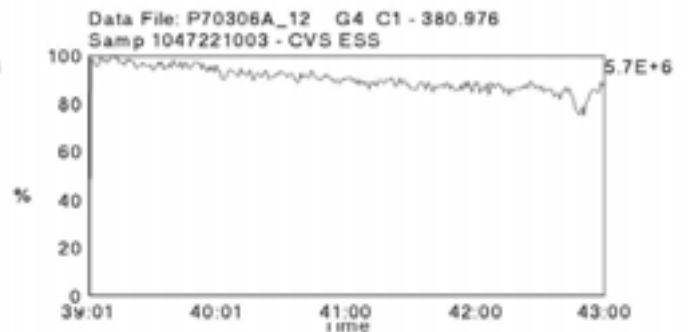
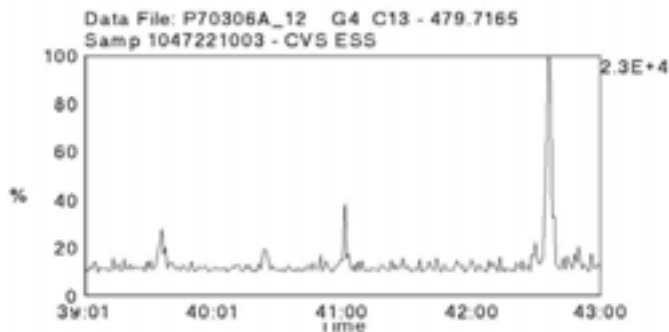
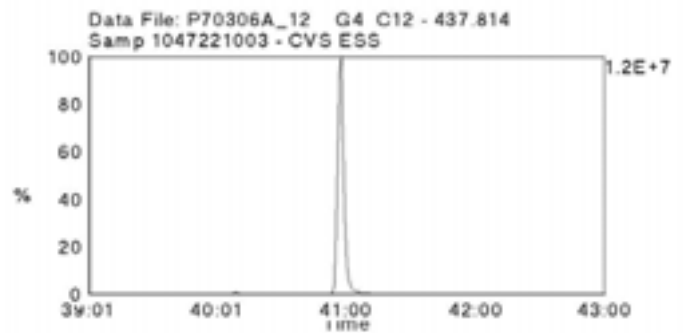
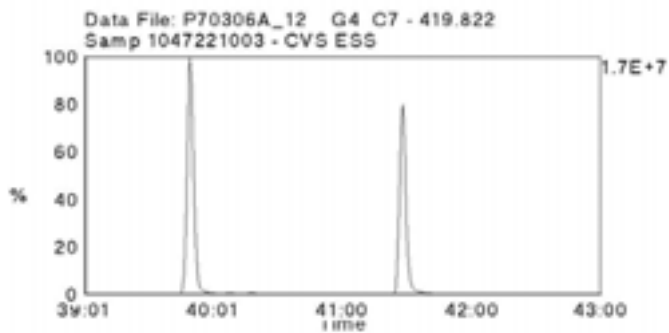
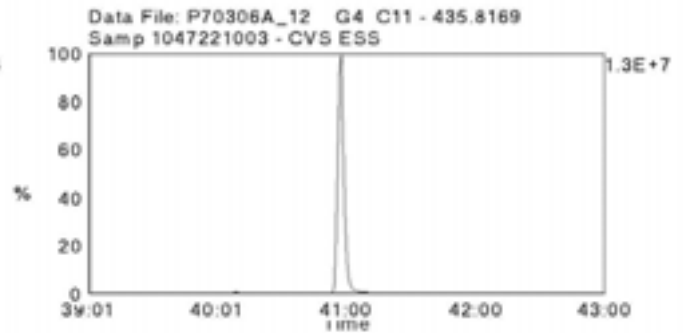
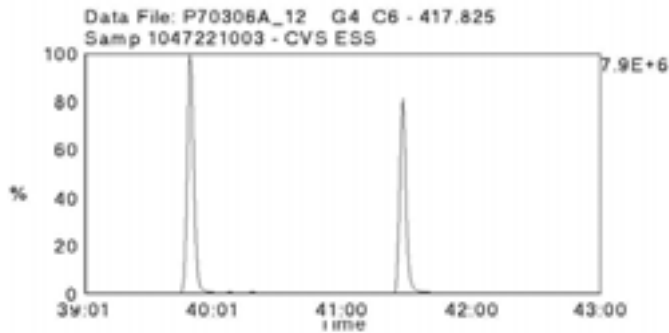
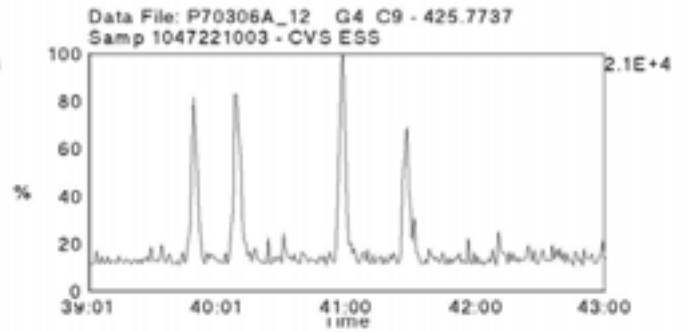
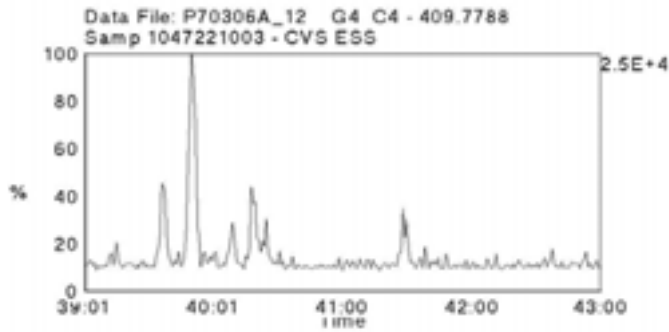
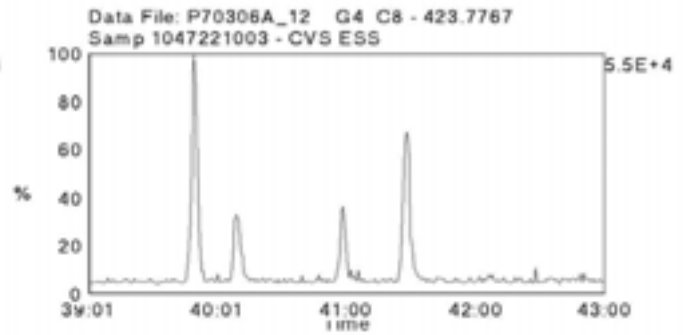
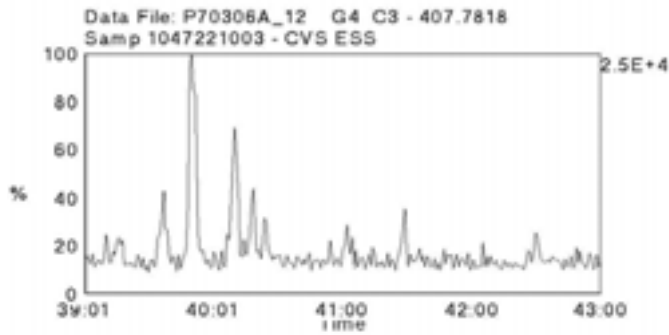
Lab Sample ID: 1047221003  
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Instrument: 10MSHR09 (P)





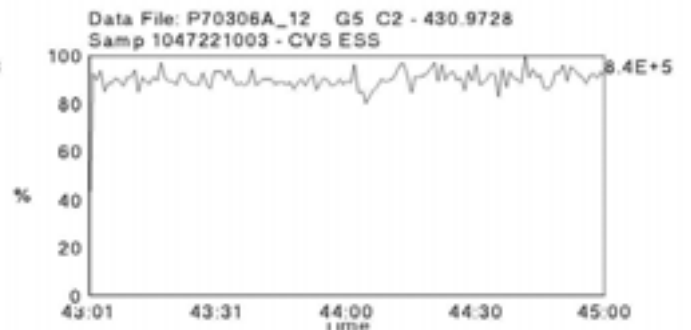
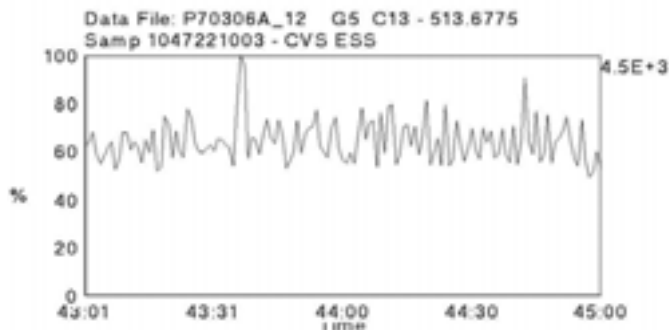
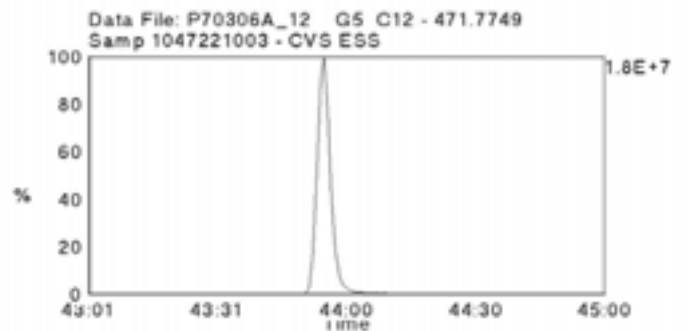
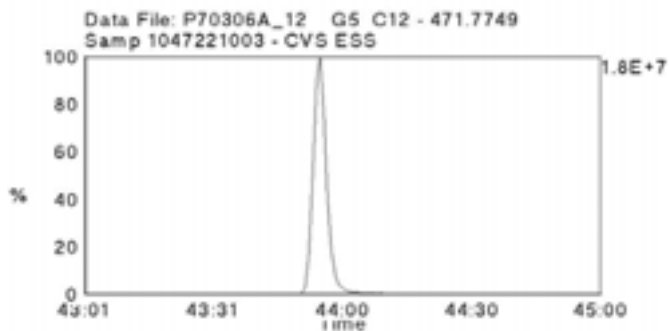
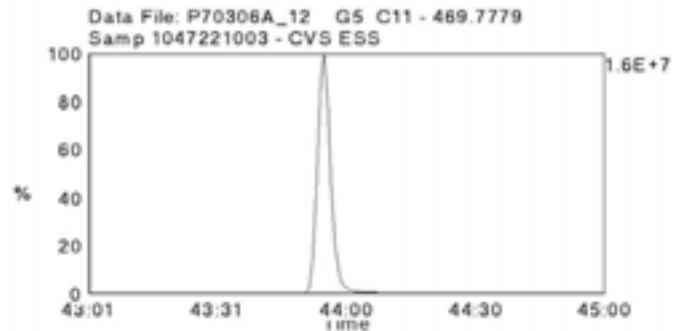
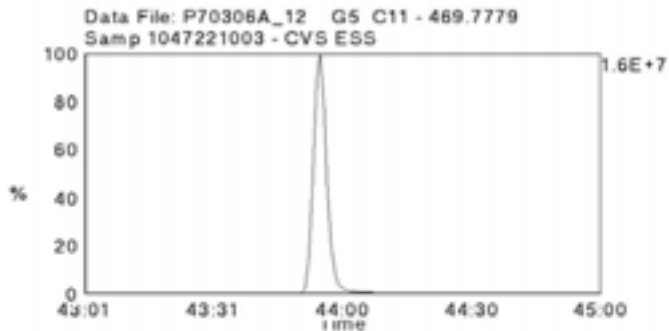
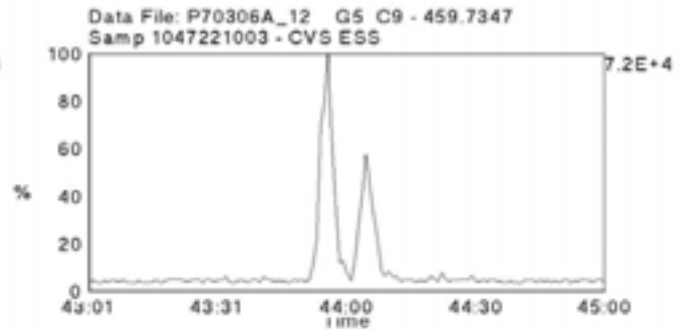
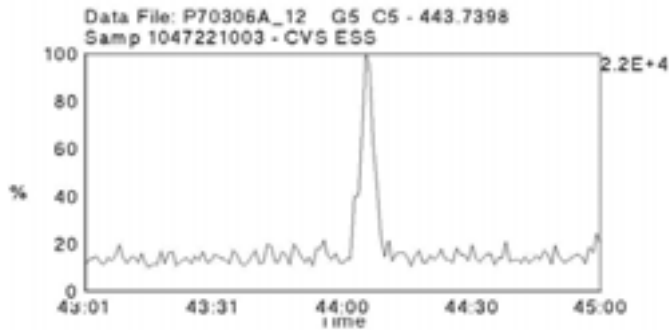
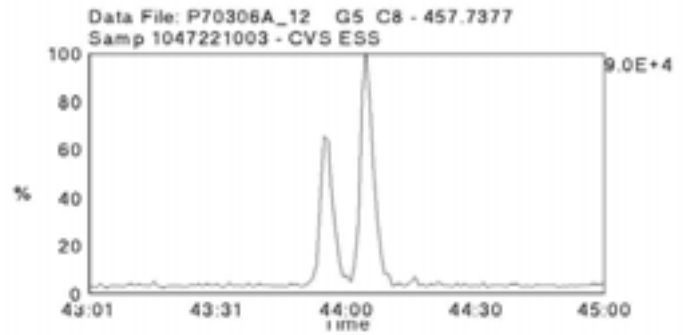
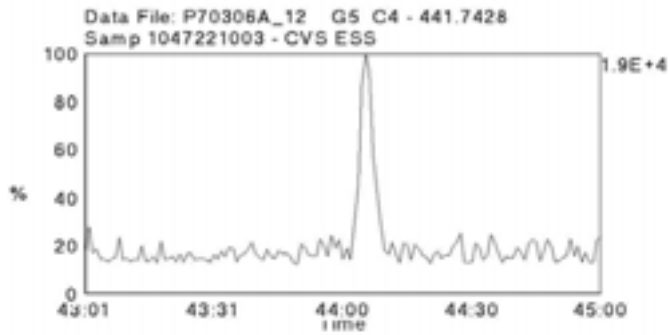
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Date Acquired: 3/6/2007  
Sample Description: Samp 1047221003 - CVS ESS

Lab Sample ID: 1047221003  
Client Sample ID: 0702344-03  
Instrument: 10MSHR09 (P)



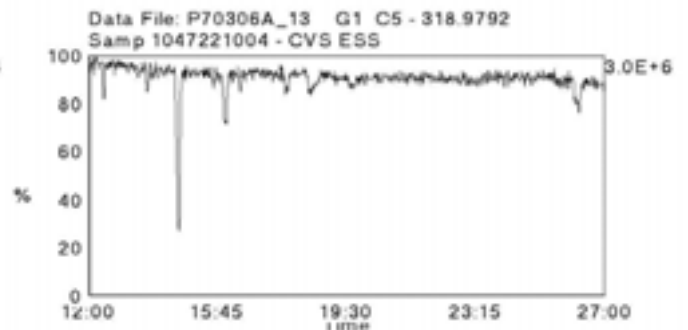
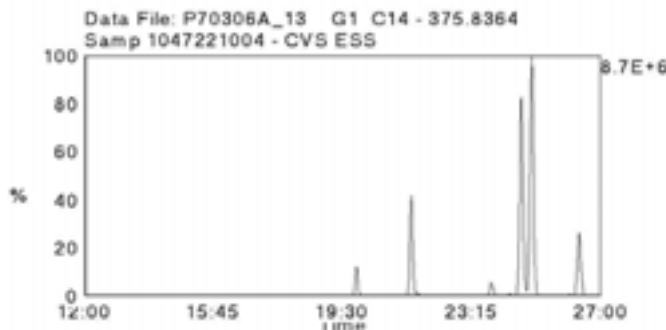
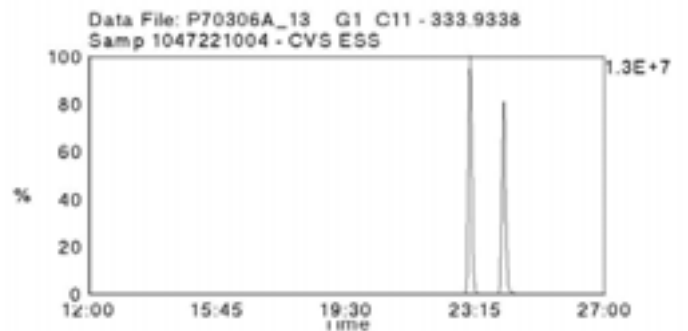
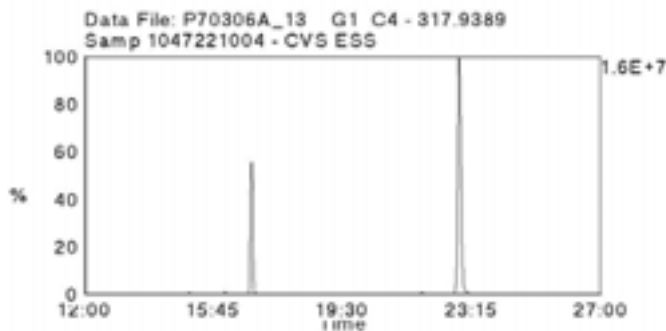
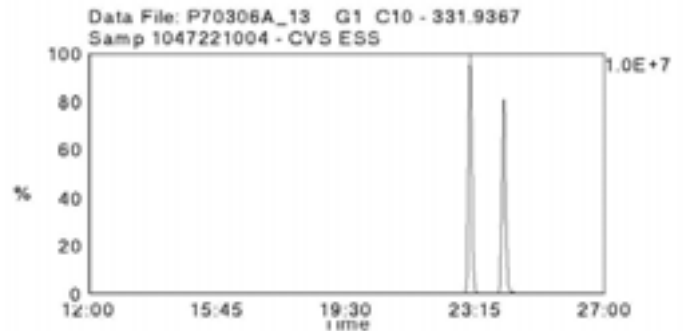
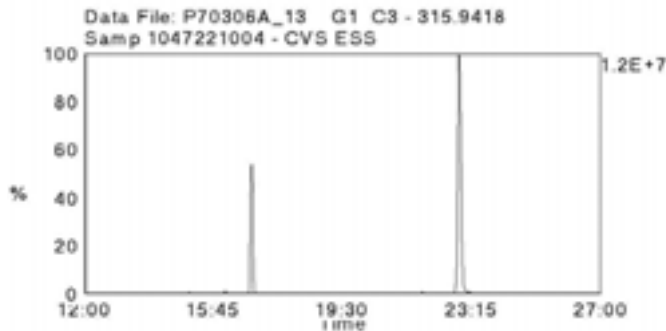
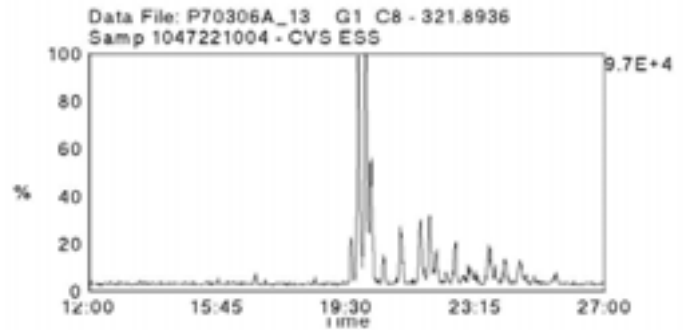
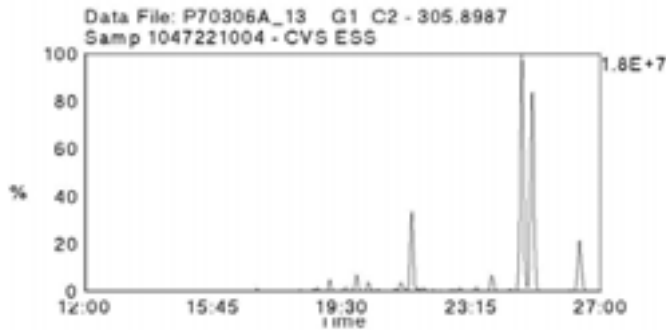
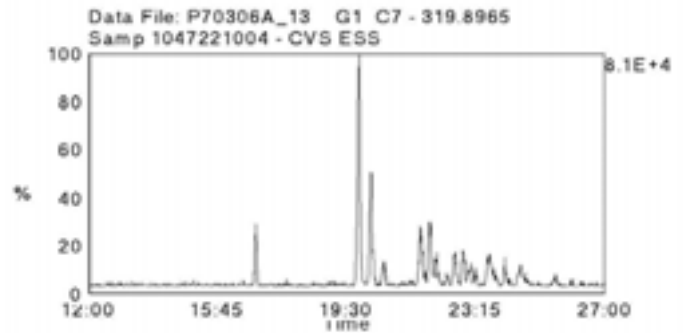
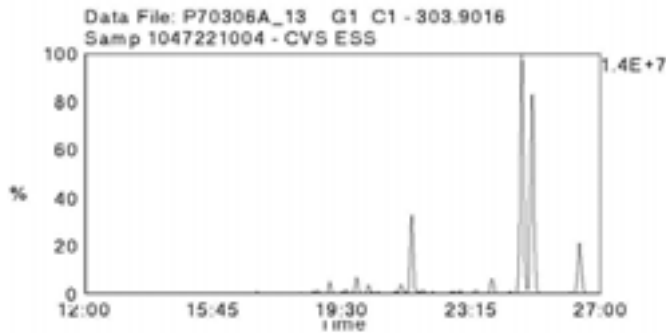
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Date Acquired: 3/6/2007  
Sample Description: Samp 1047221003 - CVS ESS

Lab Sample ID: 1047221003  
Client Sample ID: 0702344-03  
Instrument: 10MSHR09 (P)



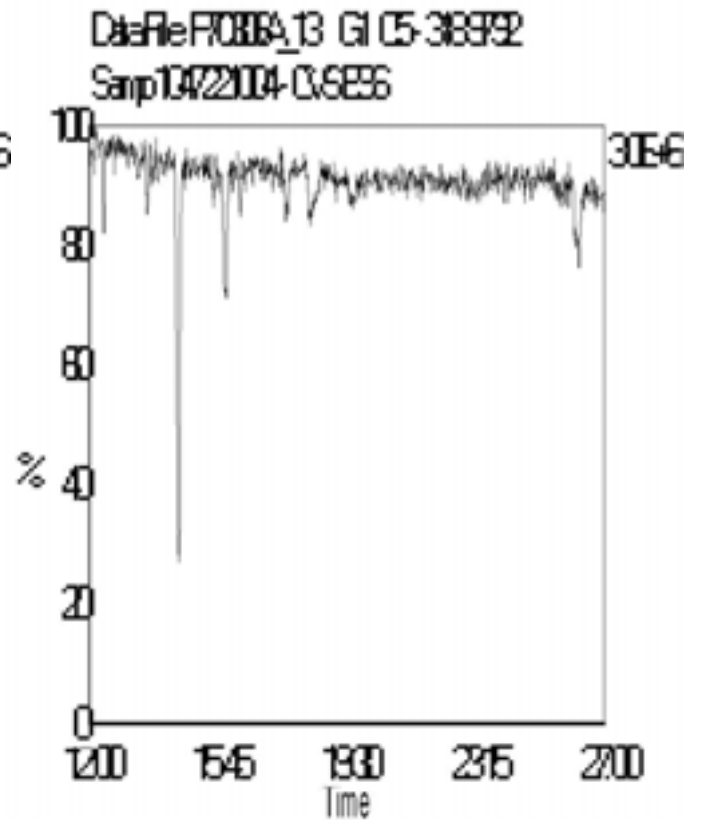
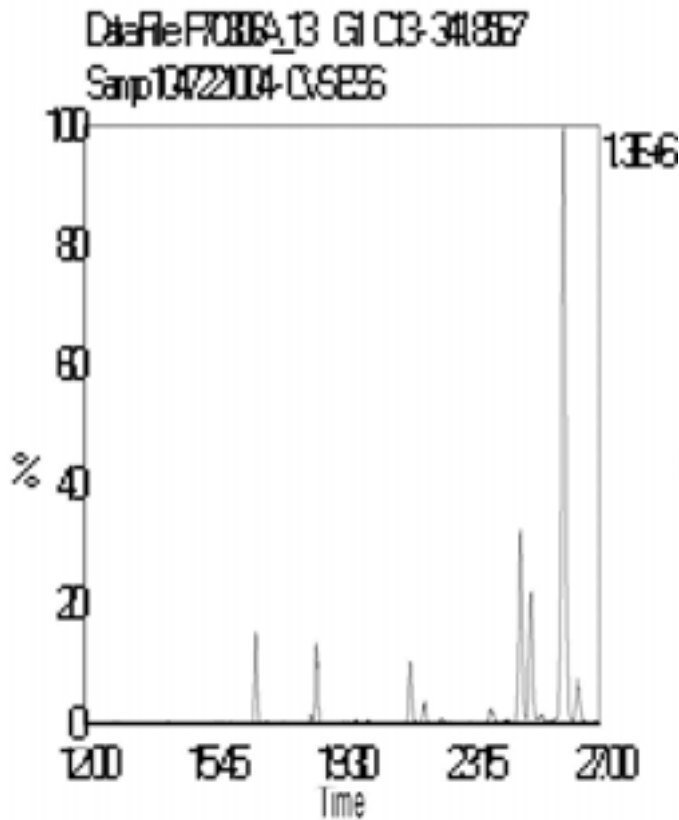
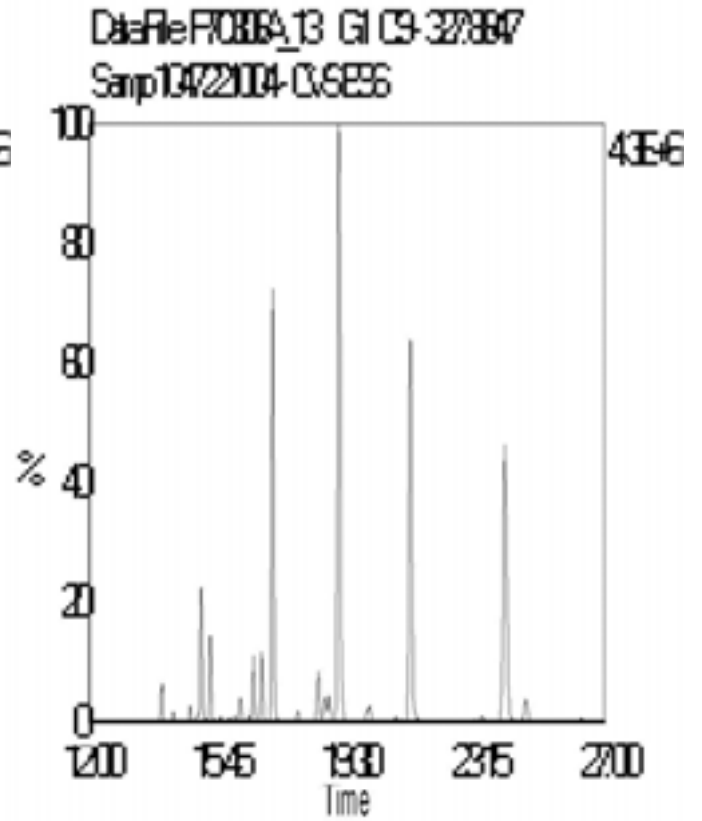
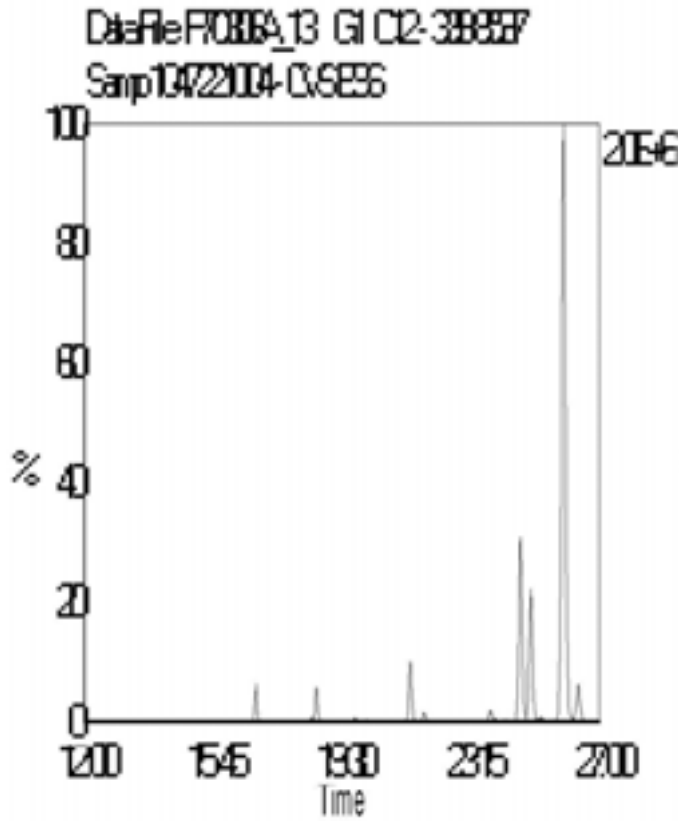
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Date Acquired: 3/6/2007  
Sample Description: Samp 1047221004 - CVS ESS

Lab Sample ID: 1047221004  
Client Sample ID: 0702344-04  
Instrument: 10MSHR09 (P)



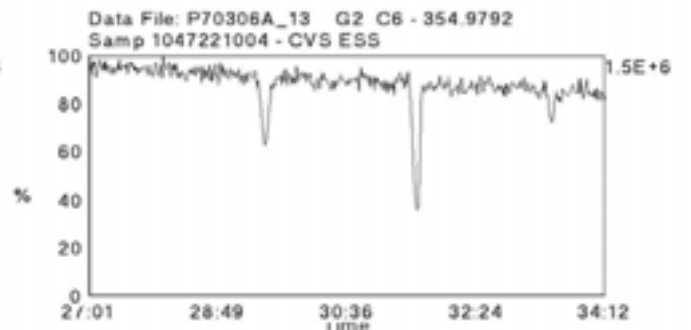
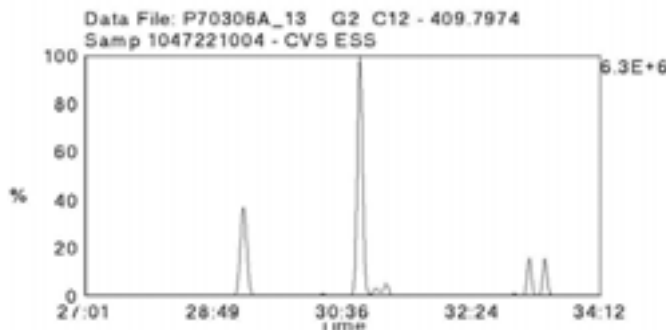
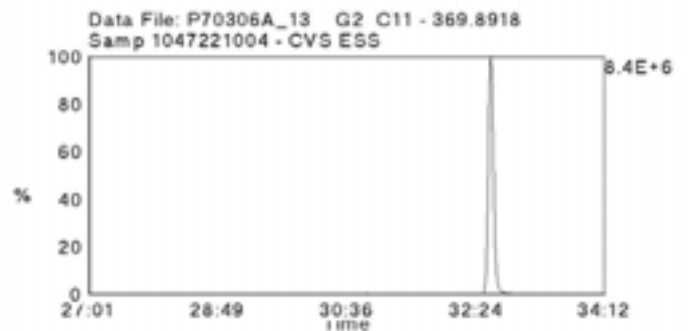
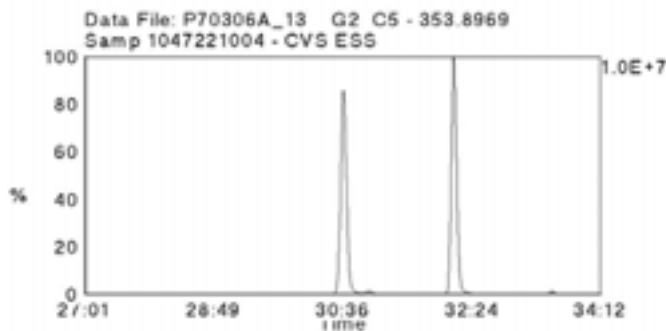
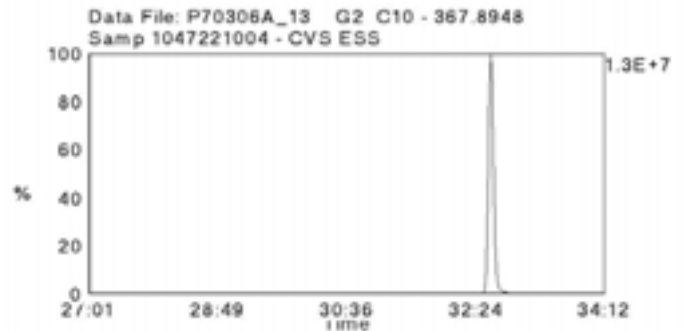
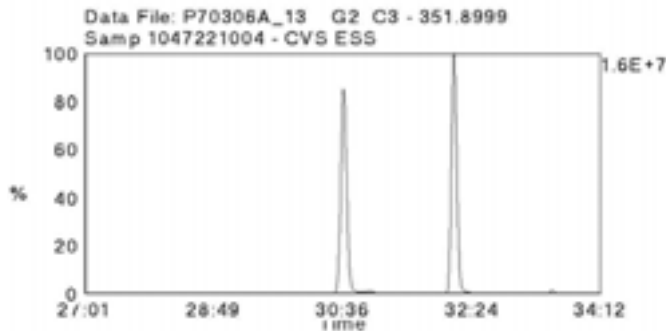
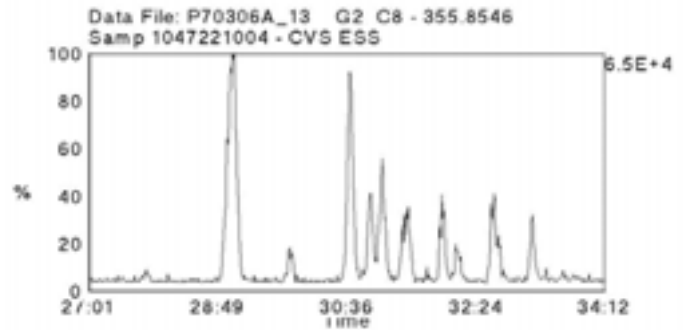
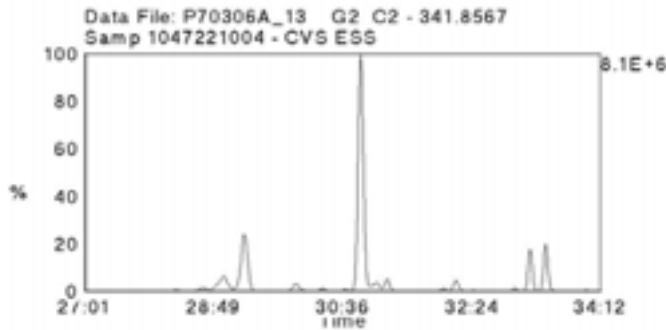
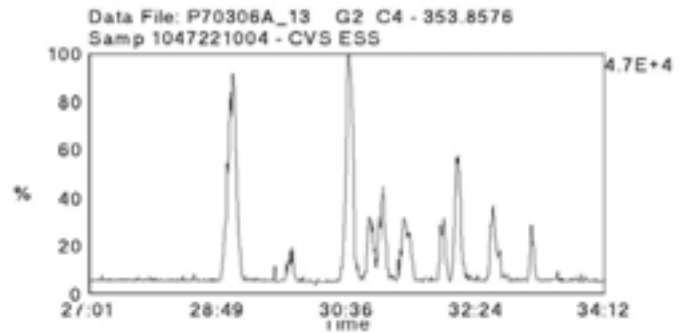
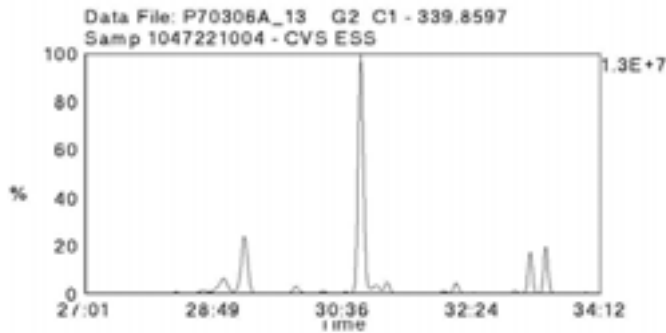
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Date Acquired: 3/6/2007  
Sample Description: Samp 1047221004 - CVS ESS

Lab Sample ID: 1047221004  
Client Sample ID: 0702344-04  
Instrument: 10MSHR09 (P)



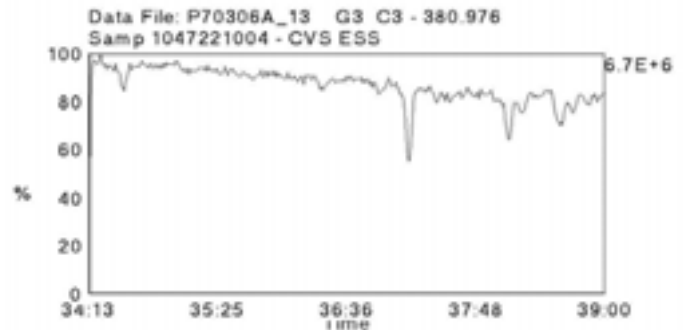
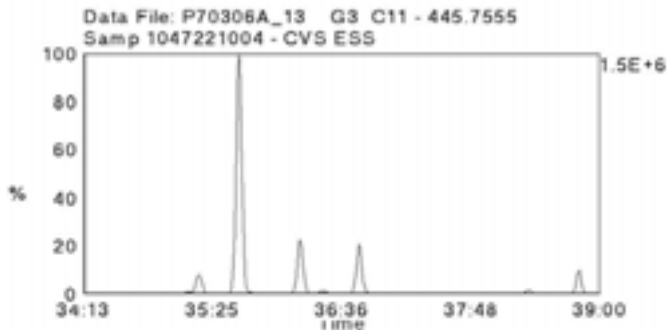
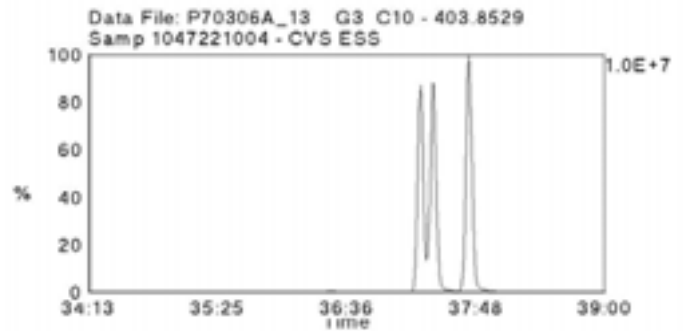
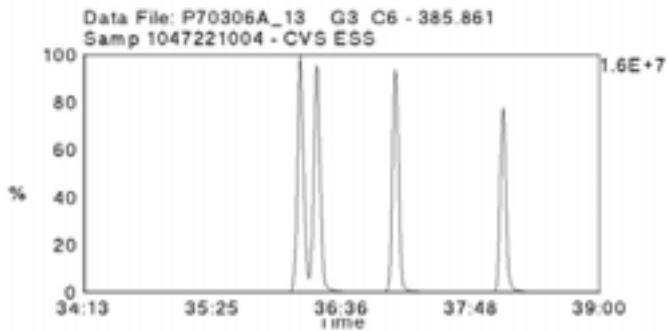
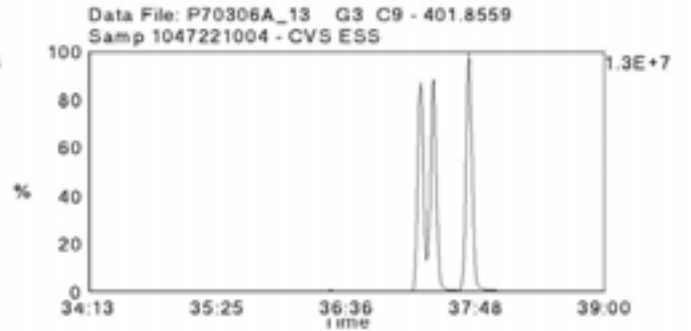
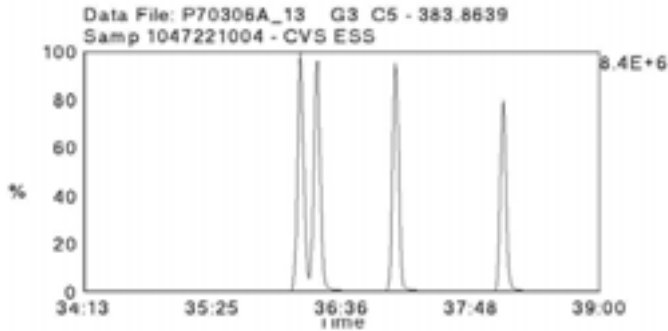
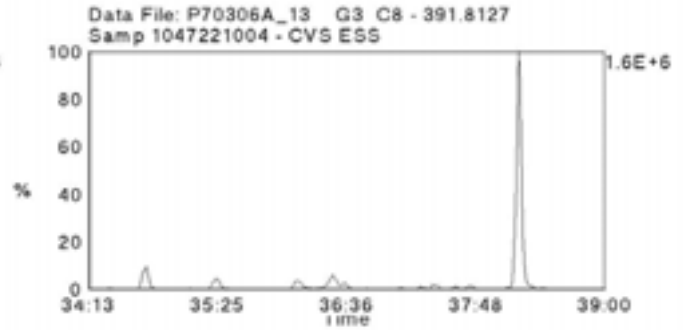
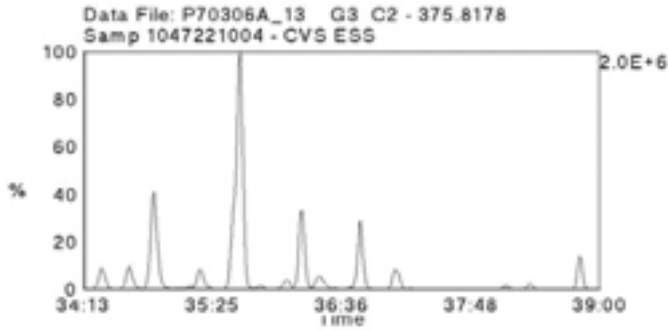
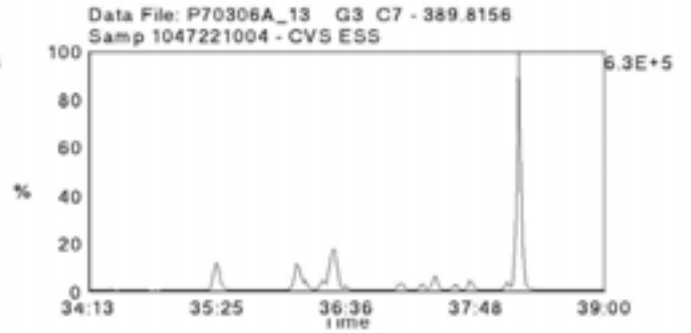
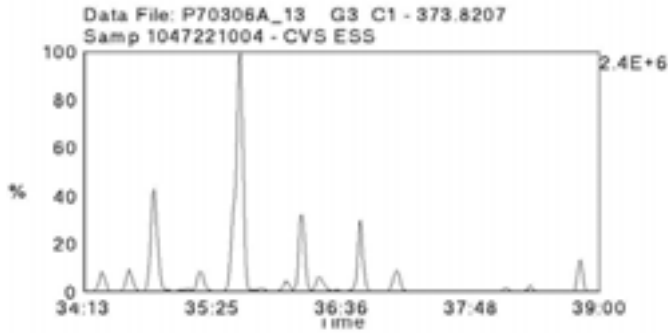
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Date Acquired: 3/6/2007  
Sample Description: Samp 1047221004 - CVS ESS

Lab Sample ID: 1047221004  
Client Sample ID: 0702344-04  
Instrument: 10MSHR09 (P)



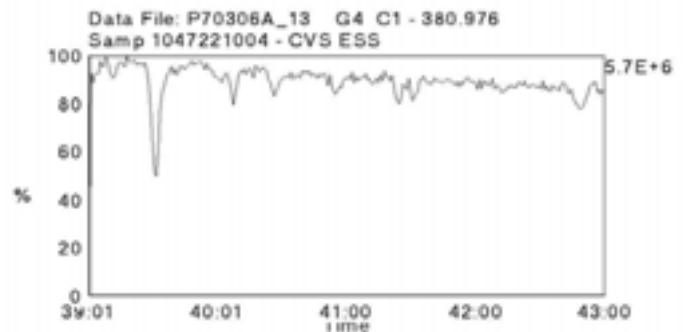
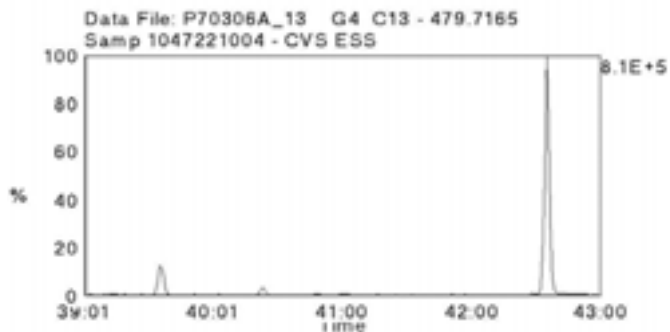
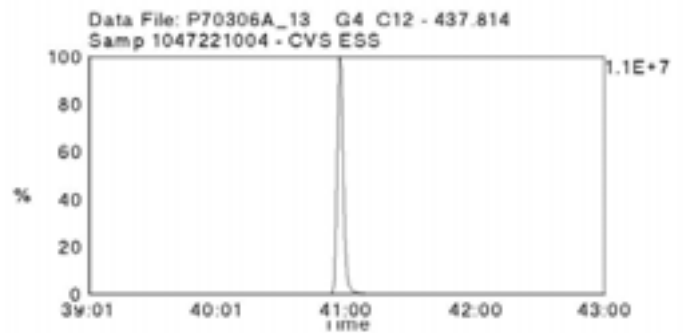
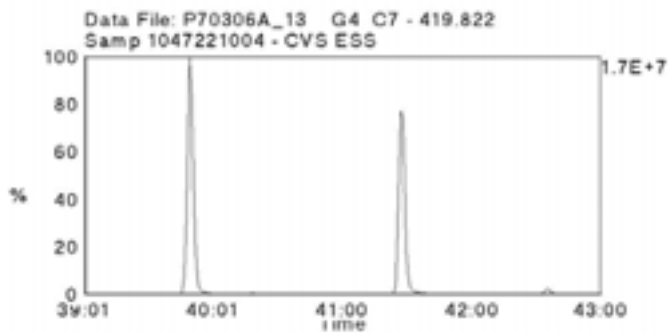
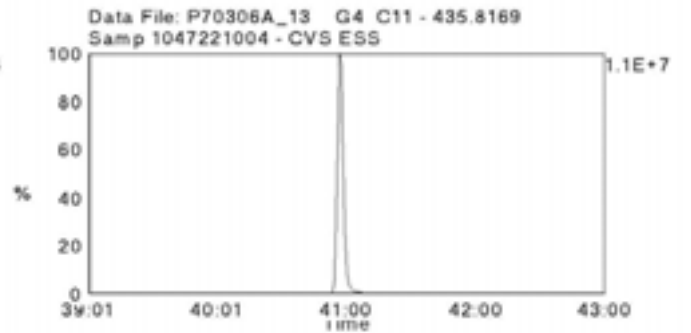
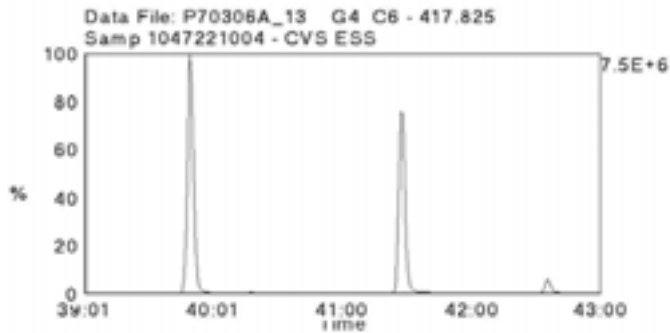
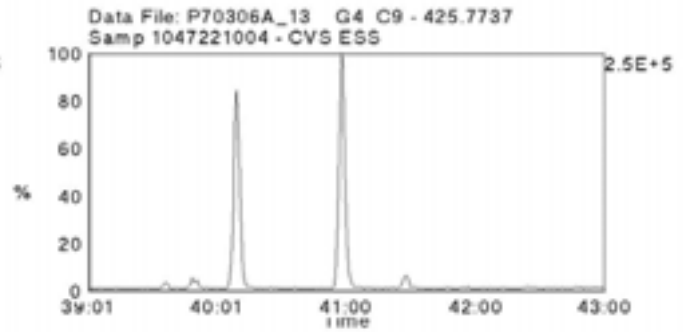
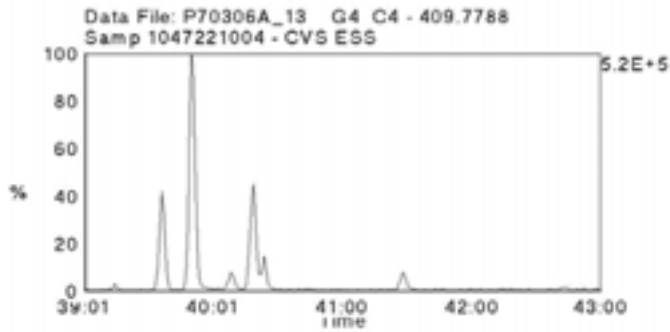
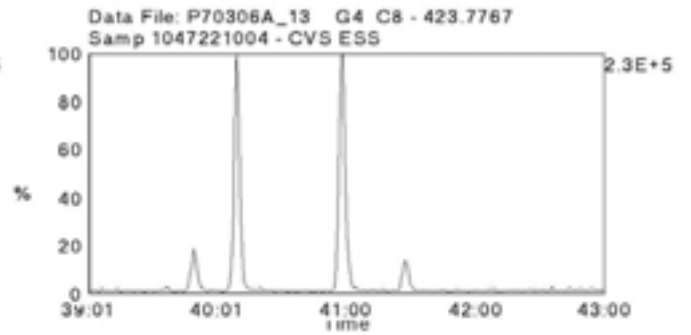
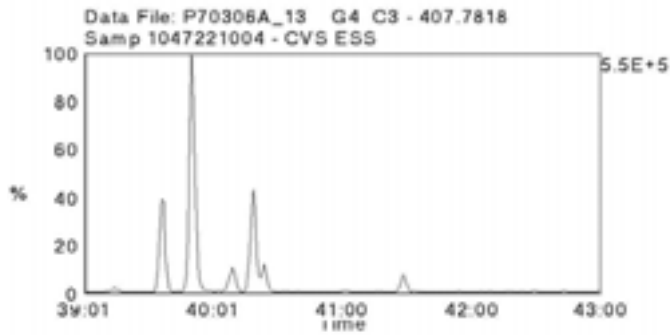
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Date Acquired: 3/6/2007  
Sample Description: Samp 1047221004 - CVS ESS

Lab Sample ID: 1047221004  
Client Sample ID: 0702344-04  
Instrument: 10MSHR09 (P)



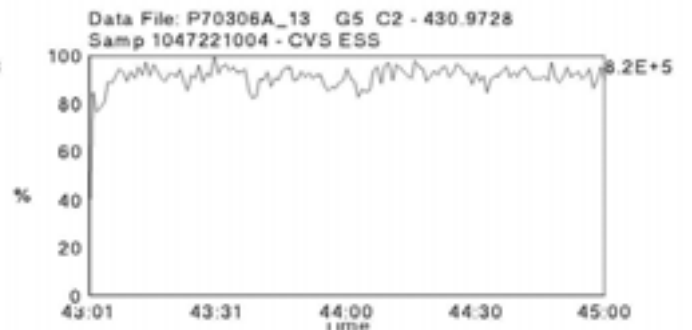
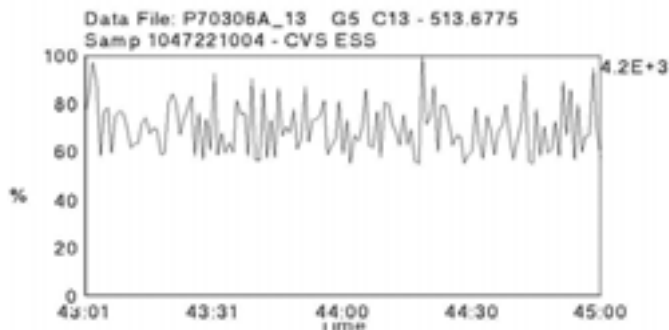
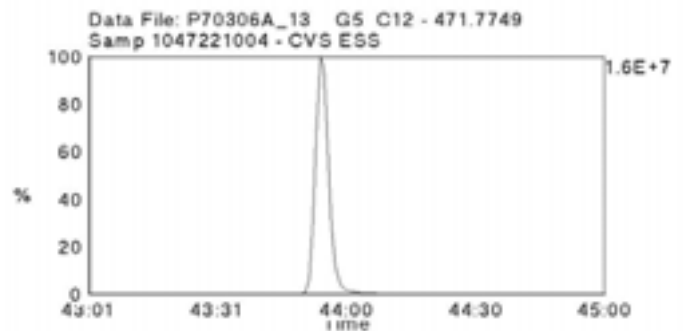
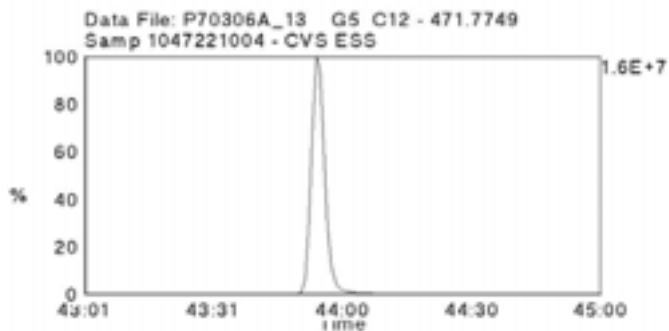
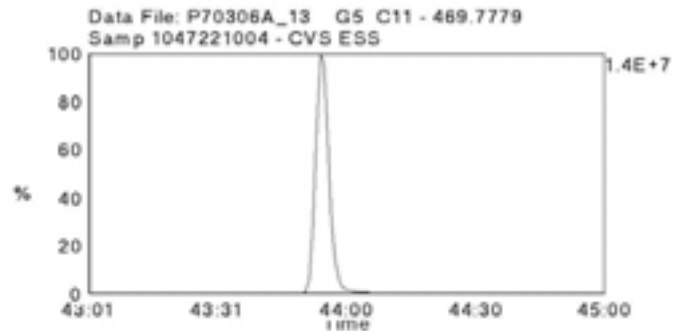
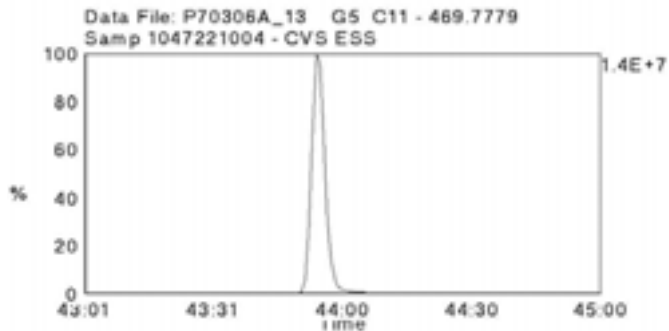
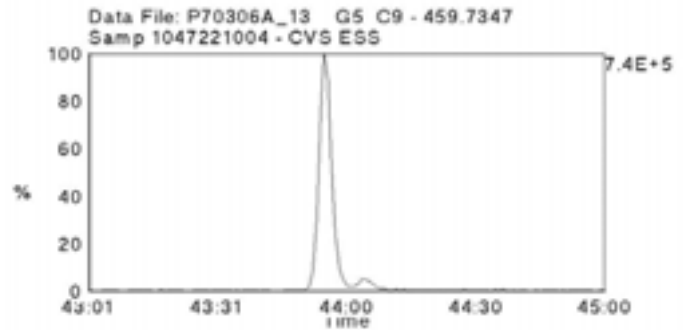
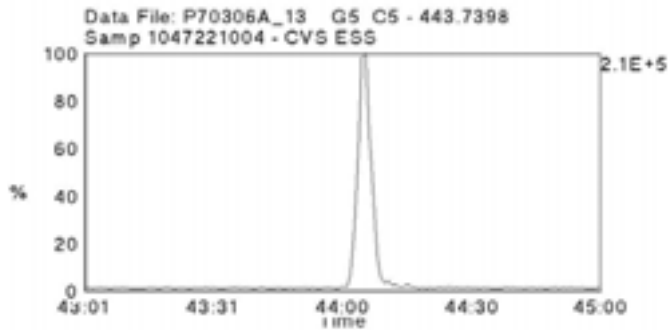
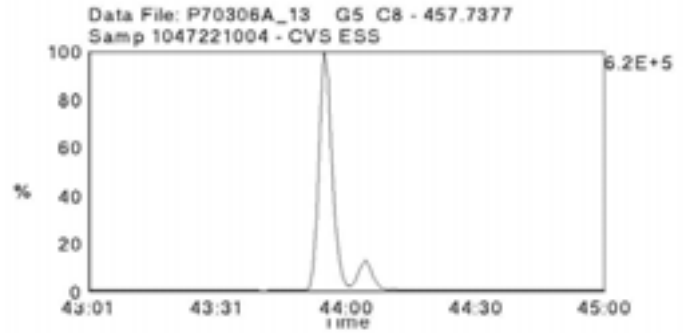
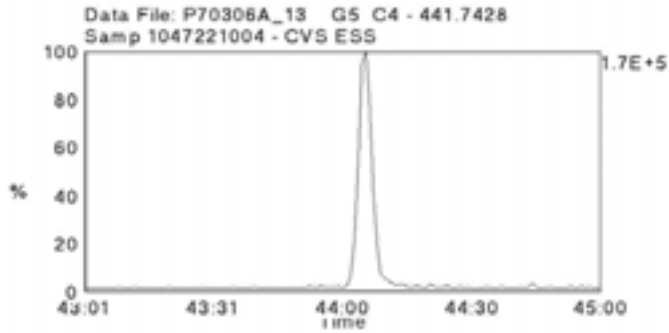
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Date Acquired: 3/6/2007  
Sample Description: Samp 1047221004 - CVS ESS

Lab Sample ID: 1047221004  
Client Sample ID: 0702344-04  
Instrument: 10MSHR09 (P)



Data File Name: P70306A\_13  
Date Acquired: 3/6/2007  
Sample Description: Samp 1047221004 - CVS ESS

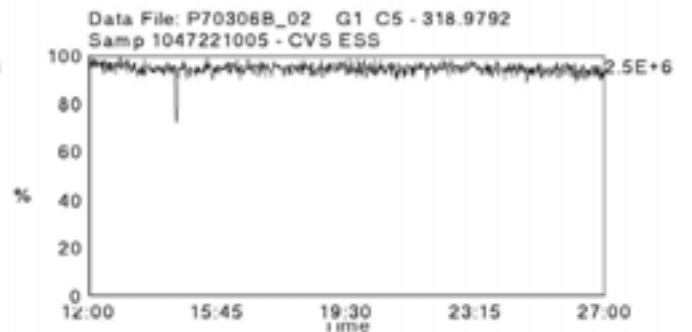
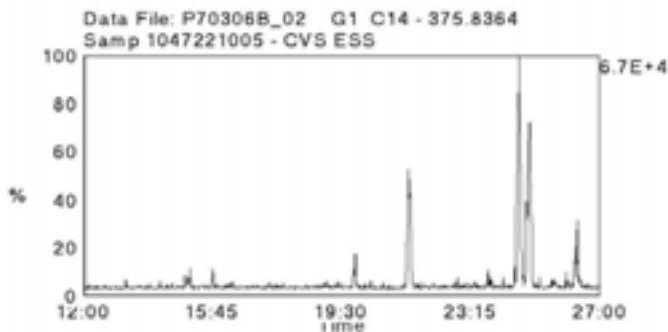
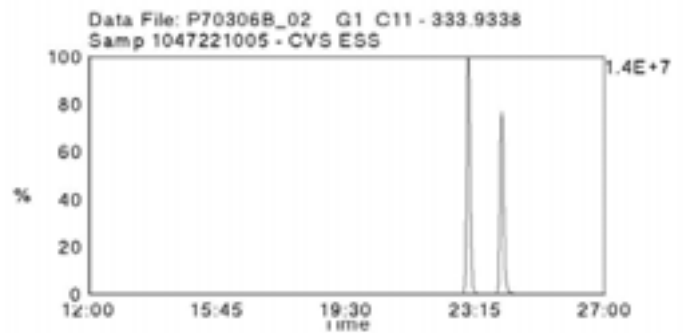
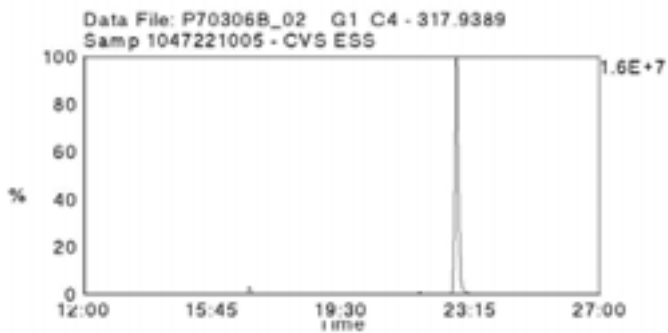
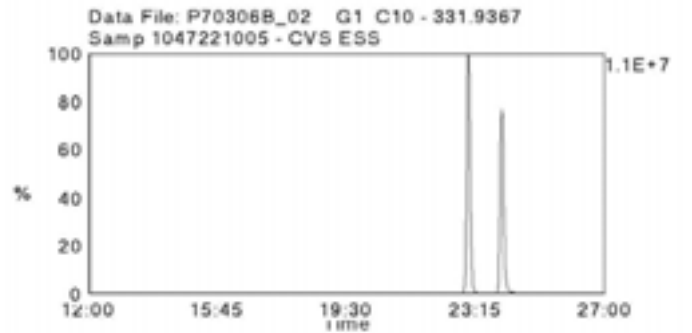
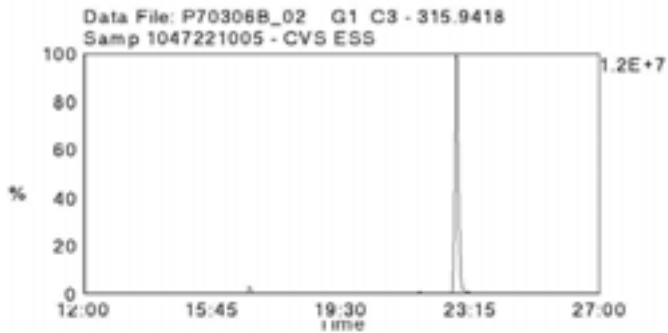
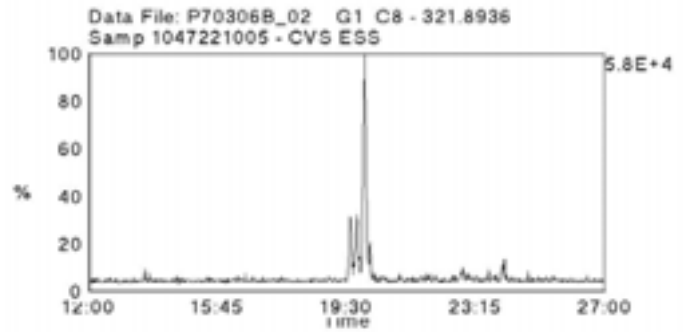
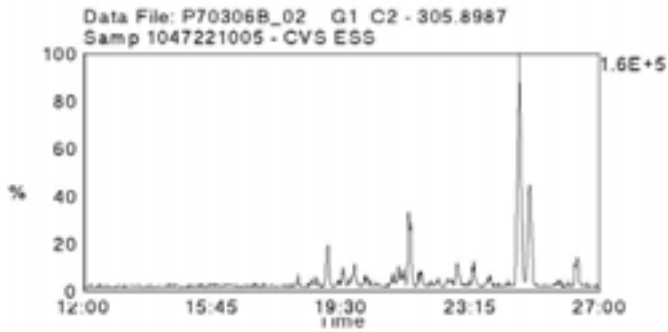
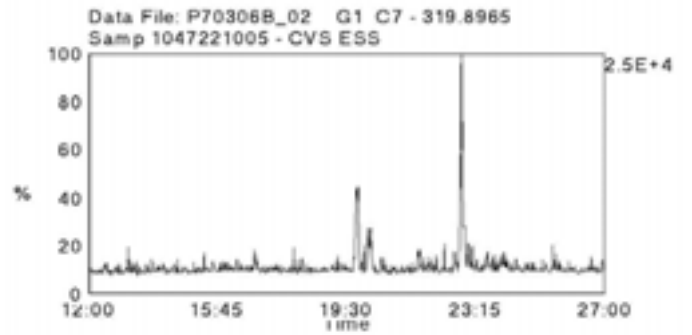
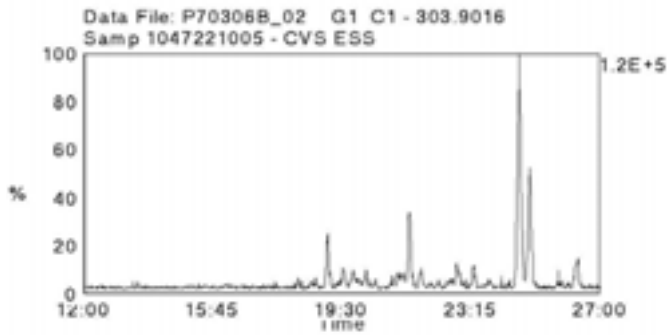
Lab Sample ID: 1047221004  
Client Sample ID: 0702344-04  
Instrument: 10MSHR09 (P)





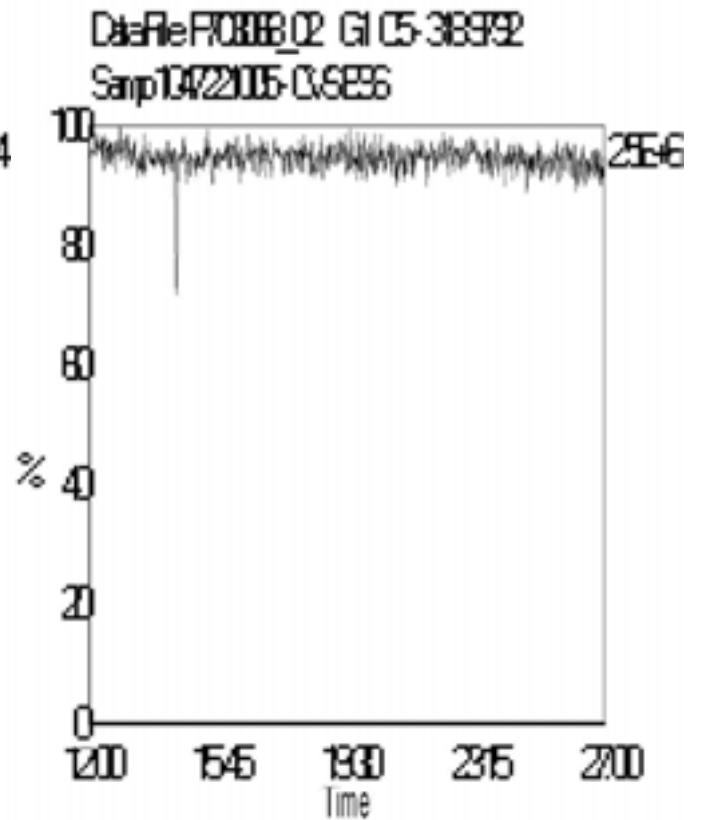
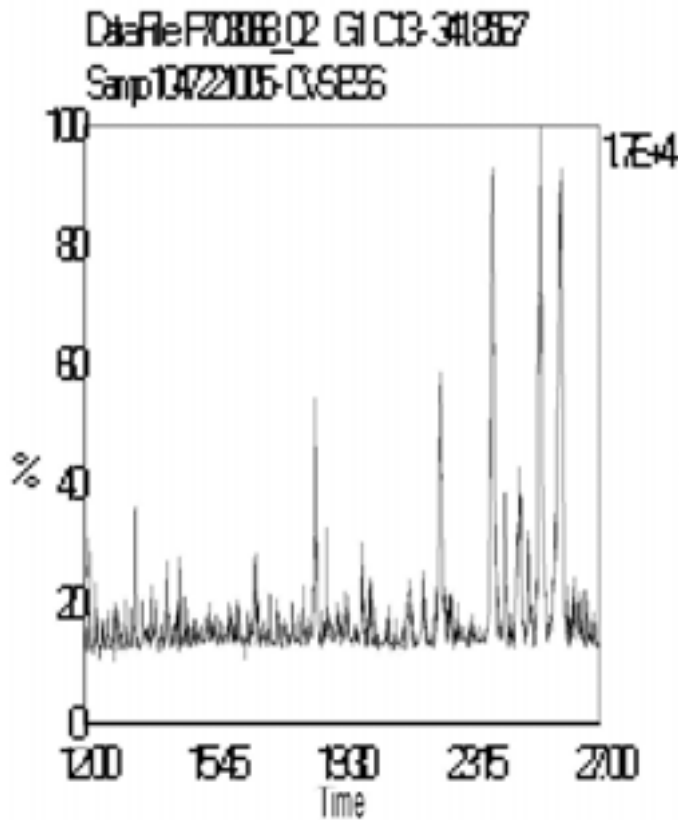
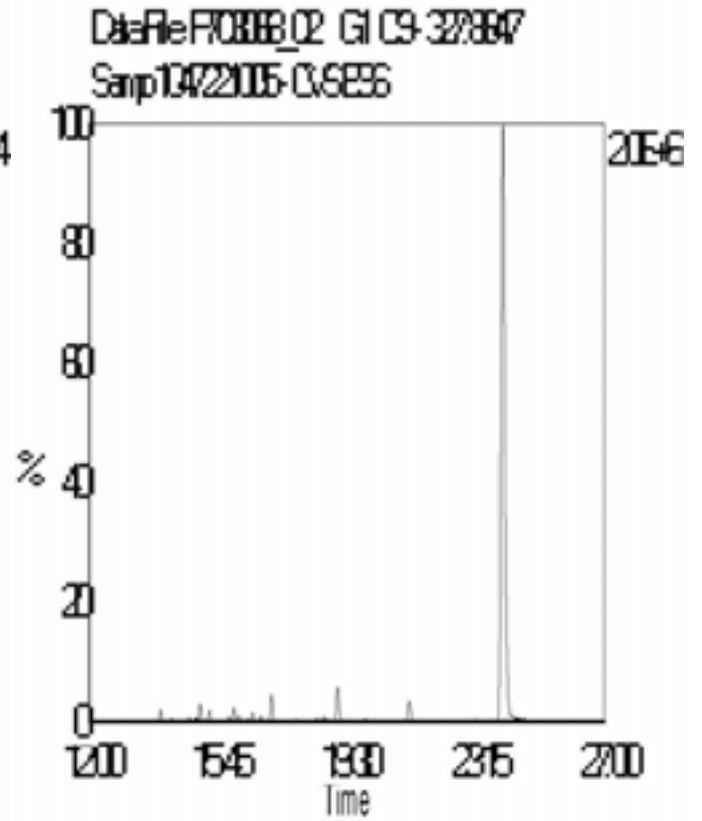
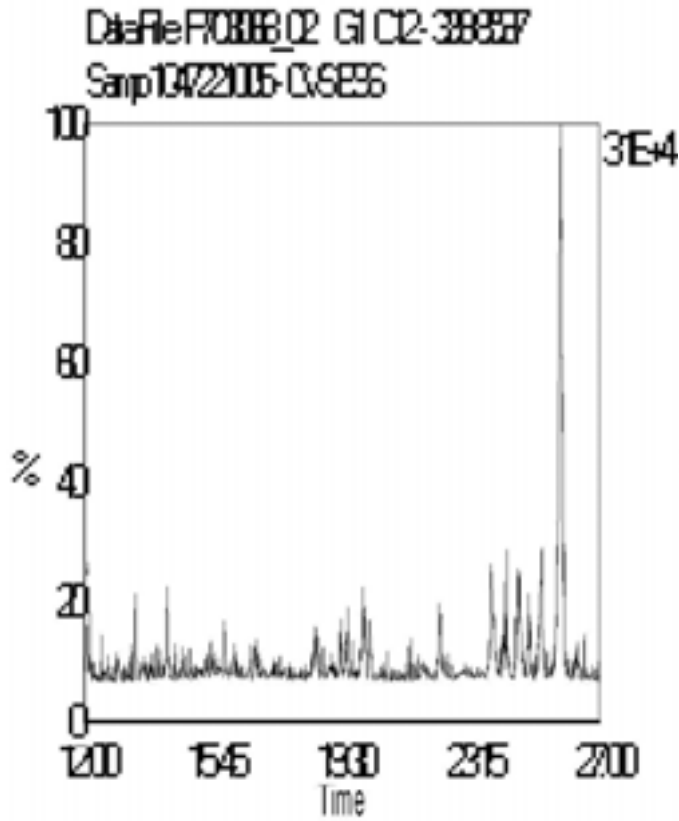
Data File Name: P70306B\_02  
Date Acquired: 3/7/2007  
Sample Description: Samp 1047221005 - CVS ESS

Lab Sample ID: 1047221005  
Client Sample ID: 0702344-05  
Instrument: 10MSHR09 (P)



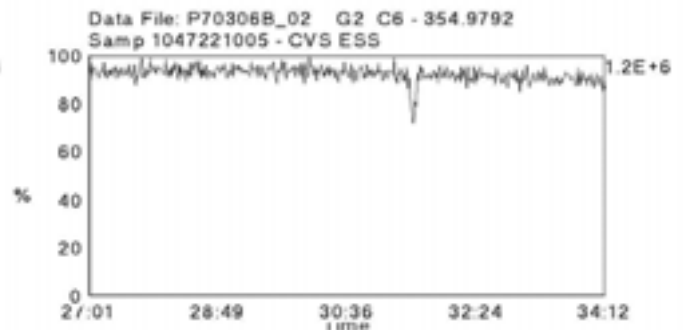
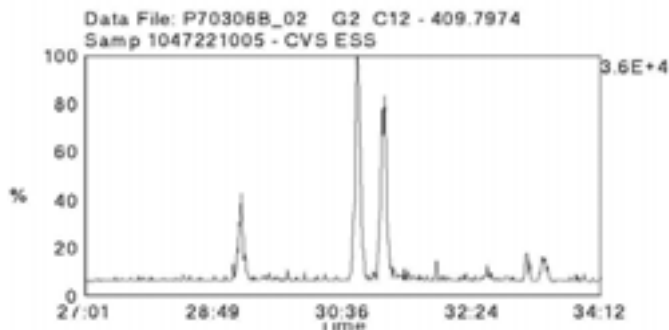
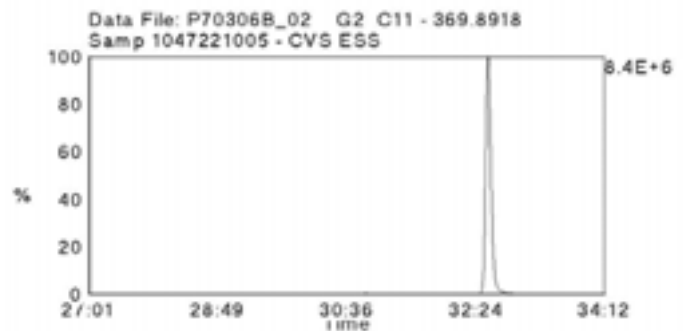
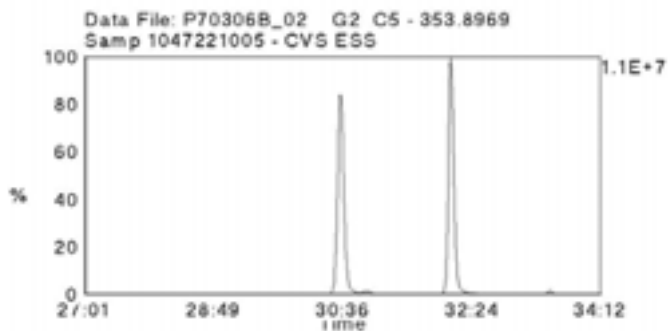
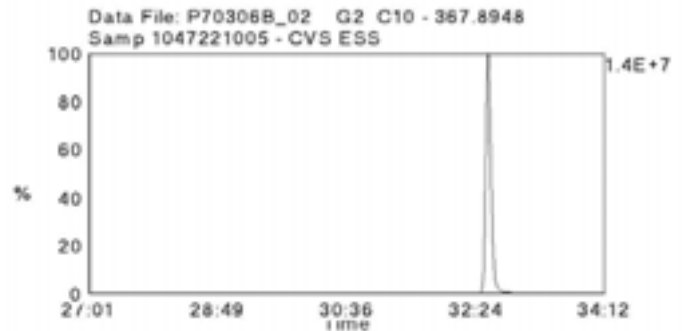
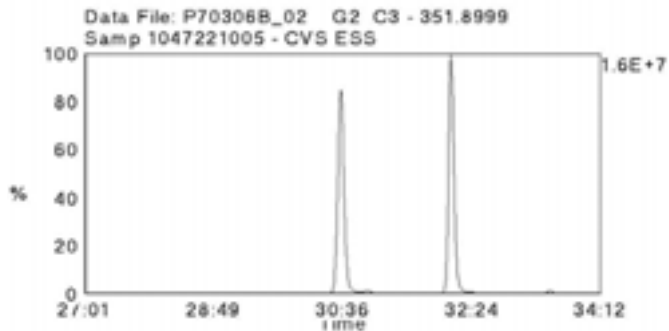
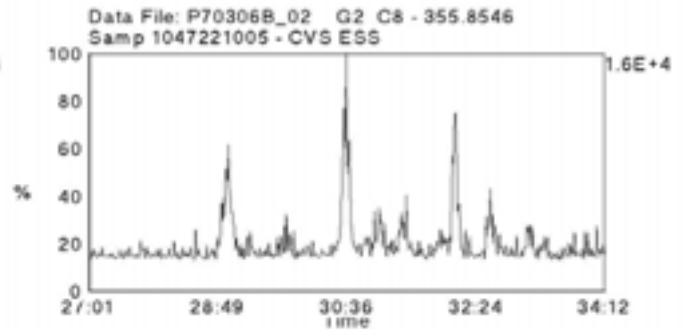
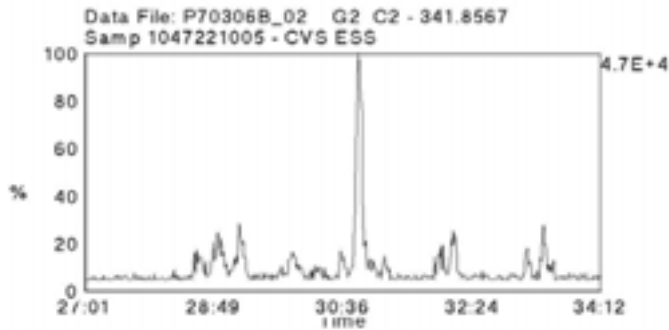
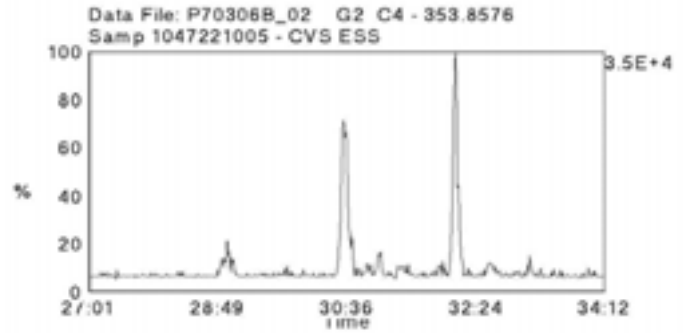
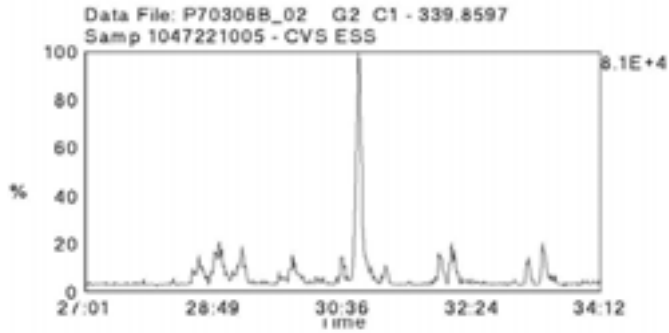
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Date Acquired: 3/7/2007  
Sample Description: Samp 1047221005 - CVS ESS

Lab Sample ID: 1047221005  
Client Sample ID: 0702344-05  
Instrument: 10MSHR09 (P)



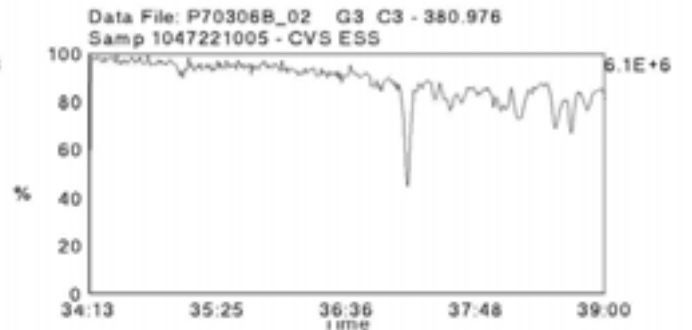
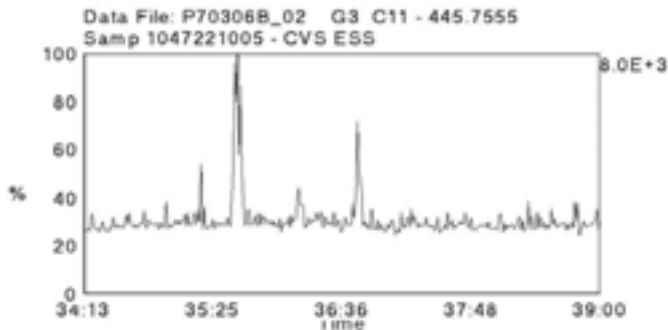
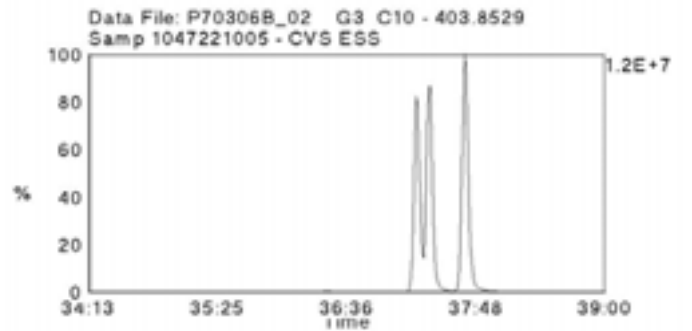
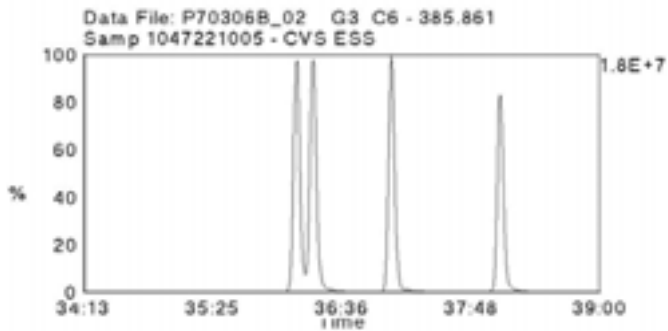
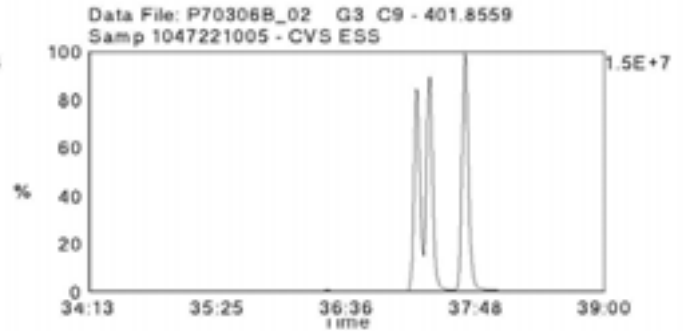
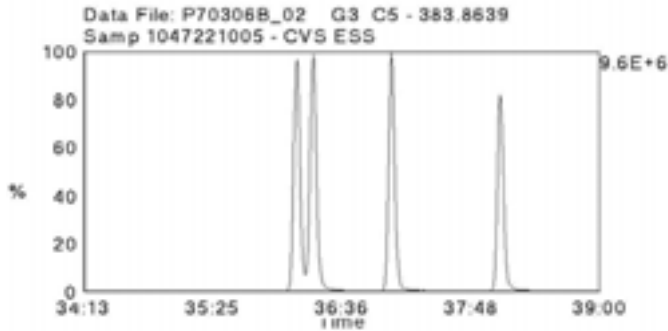
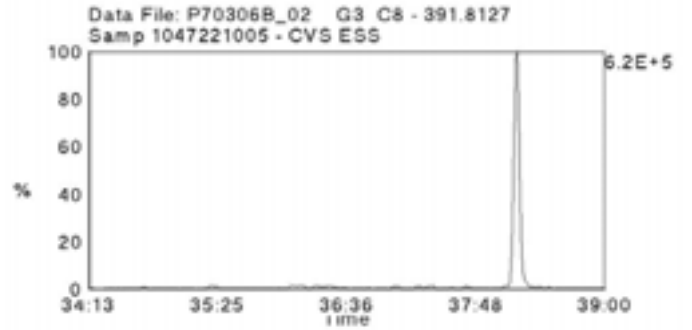
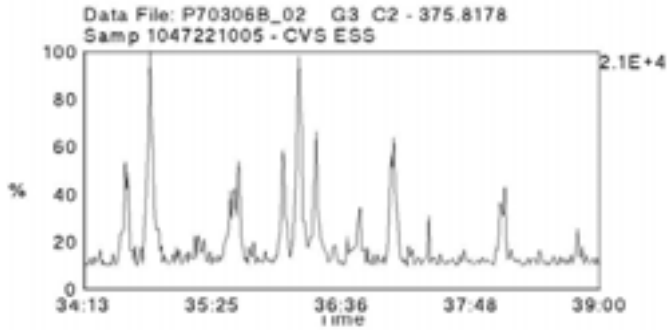
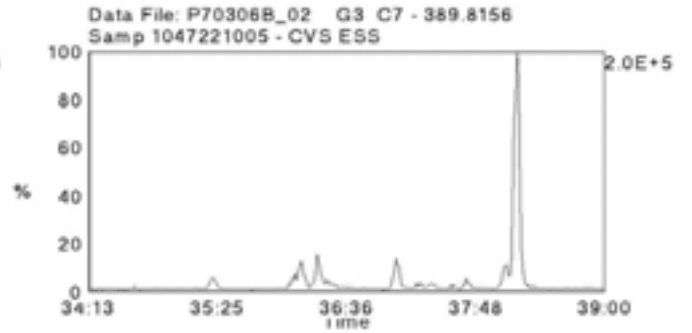
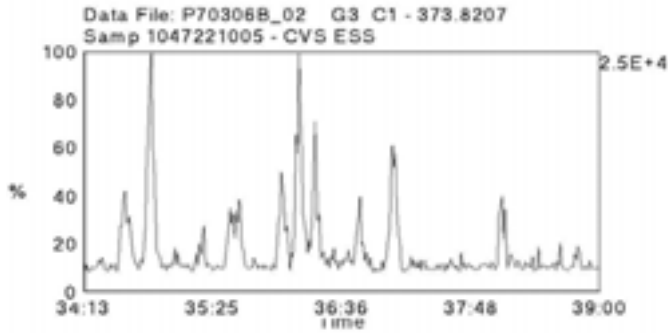
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Date Acquired: 3/7/2007  
Sample Description: Samp 1047221005 - CVS ESS

Lab Sample ID: 1047221005  
Client Sample ID: 0702344-05  
Instrument: 10MSHR09 (P)



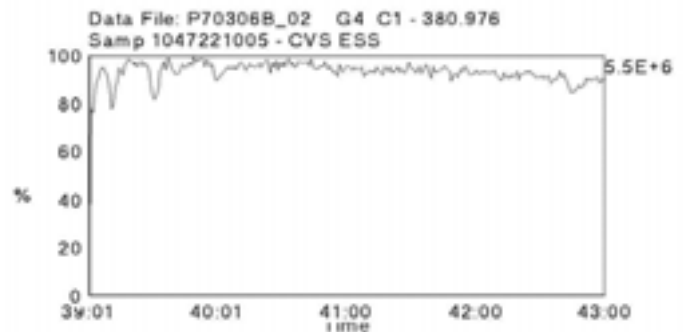
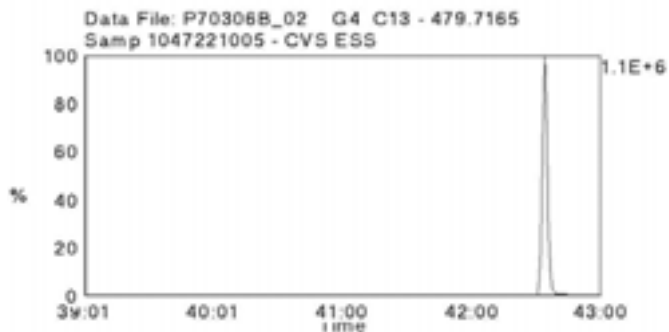
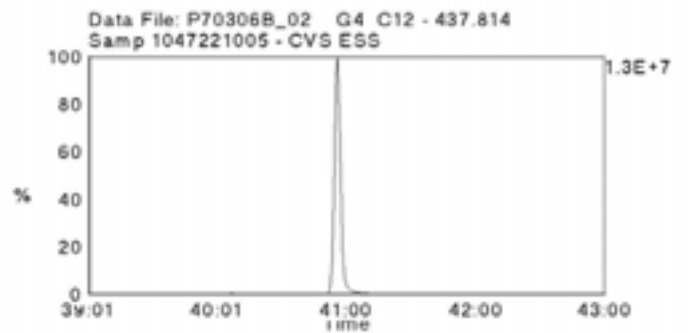
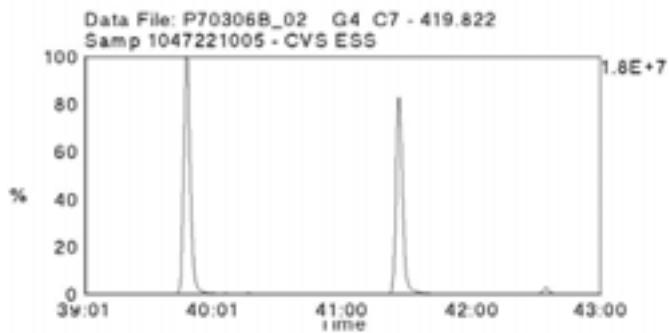
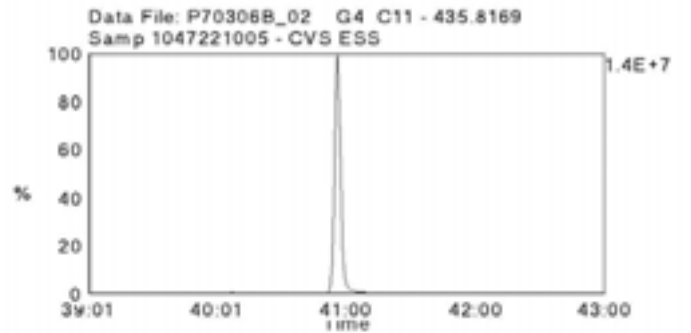
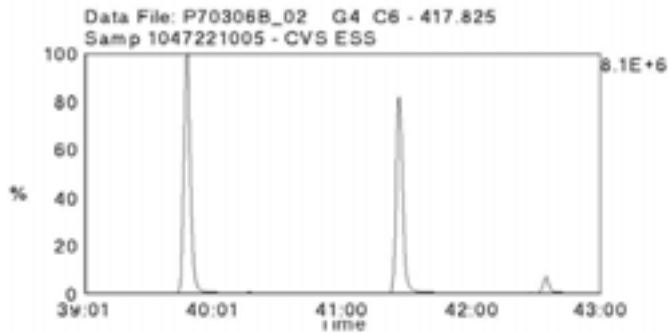
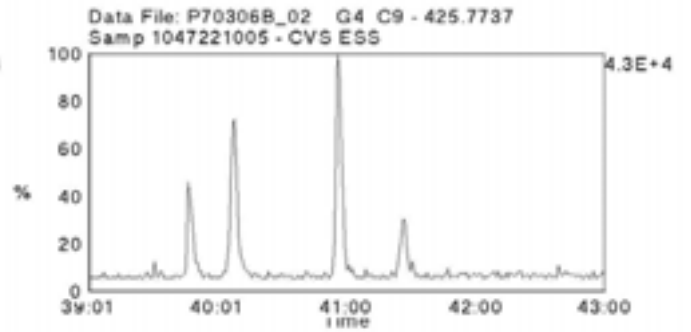
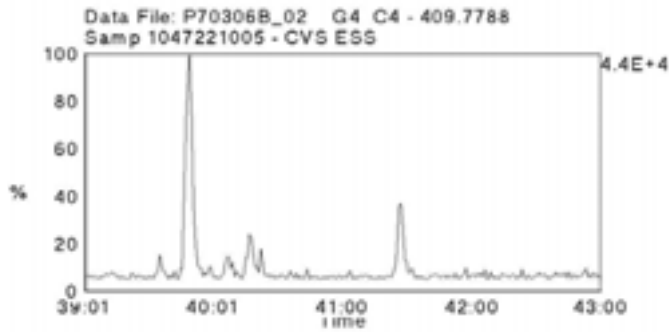
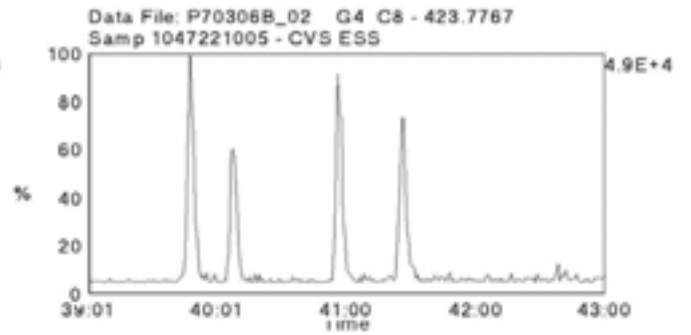
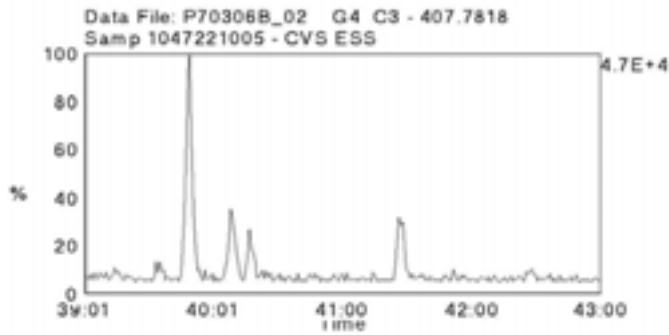
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Sample Description: Samp 1047221005 - CVS ESS

Lab Sample ID: 1047221005  
Client Sample ID: 0702344-05  
Instrument: 10MSHR09 (P)



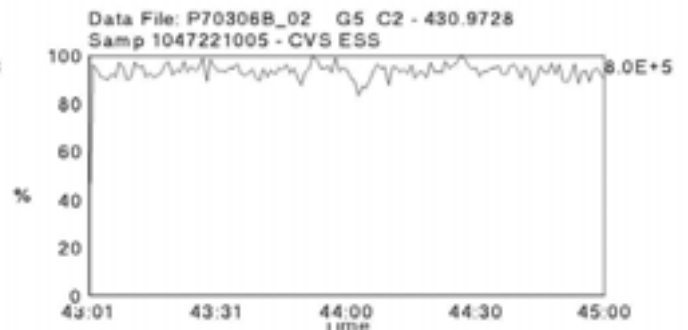
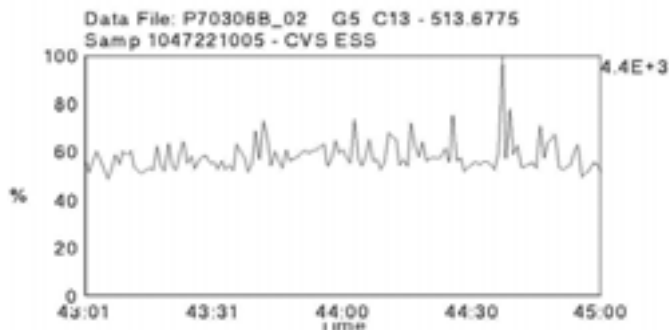
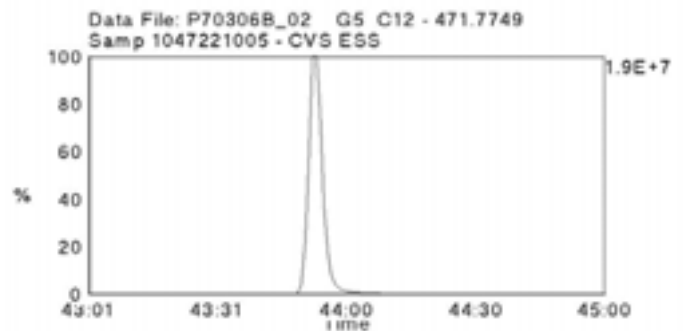
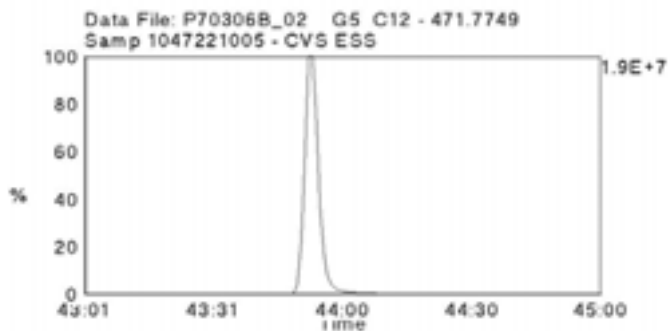
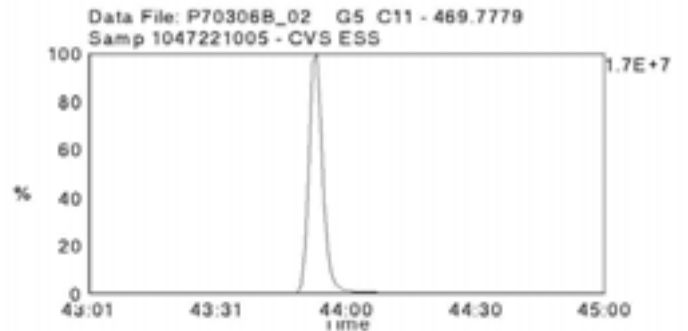
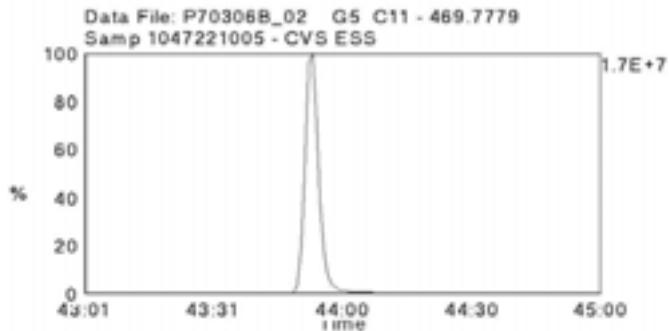
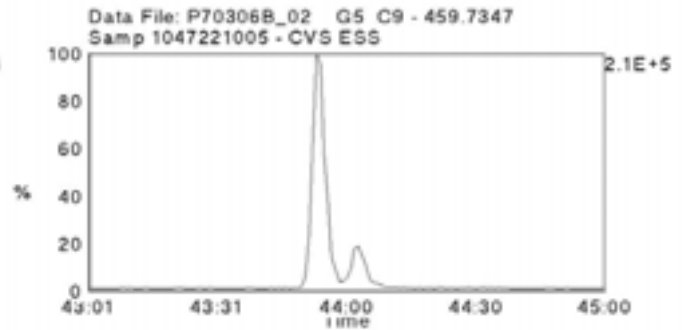
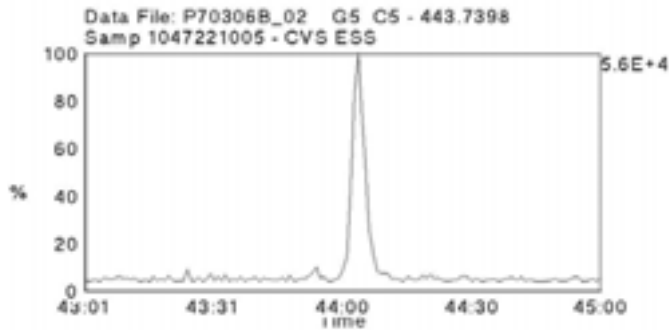
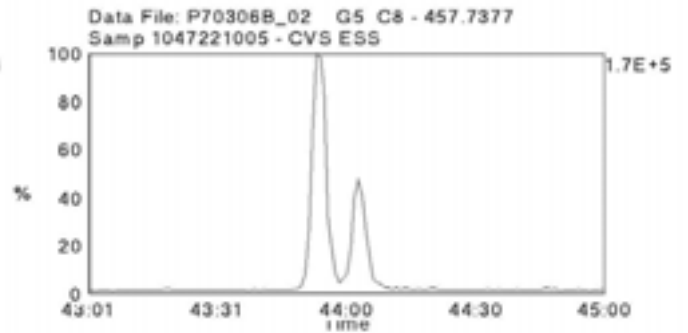
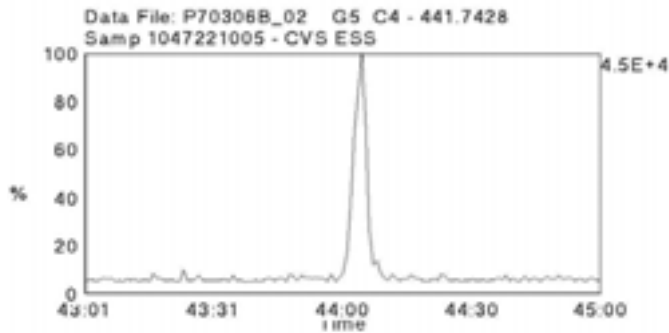
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Sample Description: Samp 1047221005 - CVS ESS

Lab Sample ID: 1047221005  
Client Sample ID: 0702344-05  
Instrument: 10MSHR09 (P)



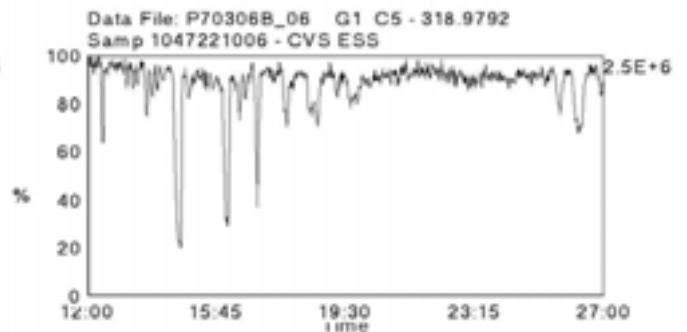
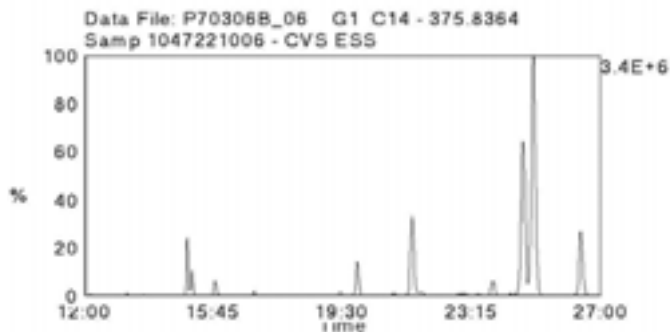
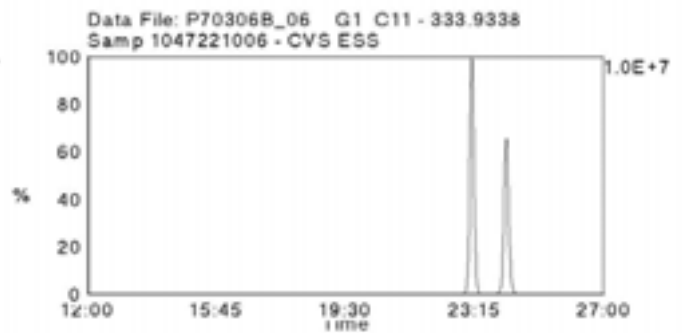
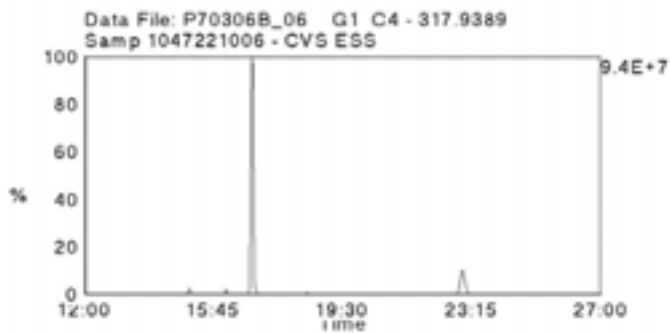
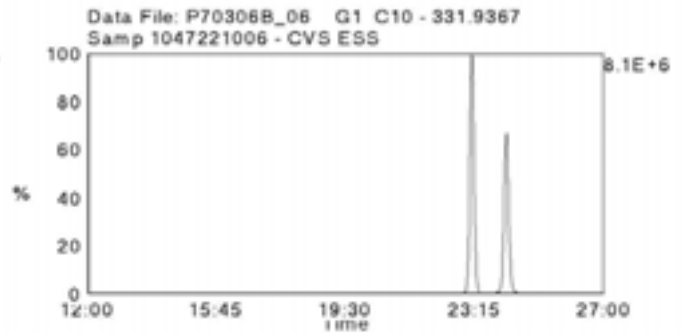
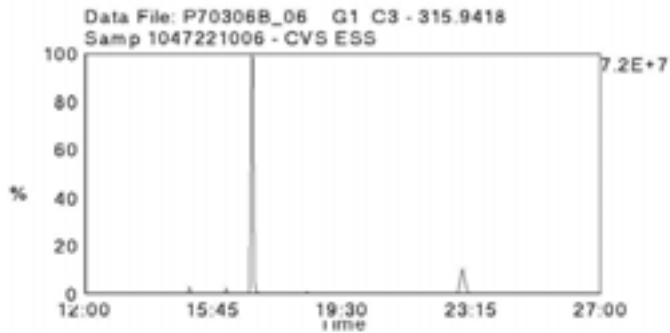
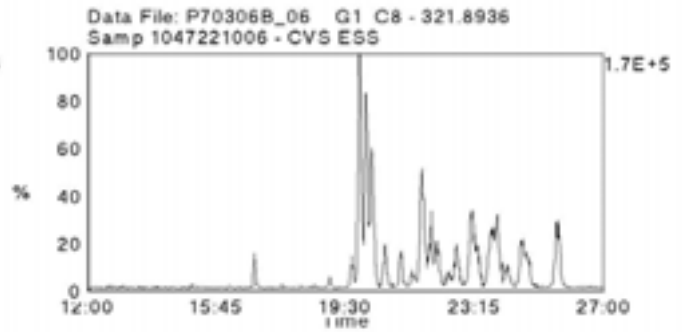
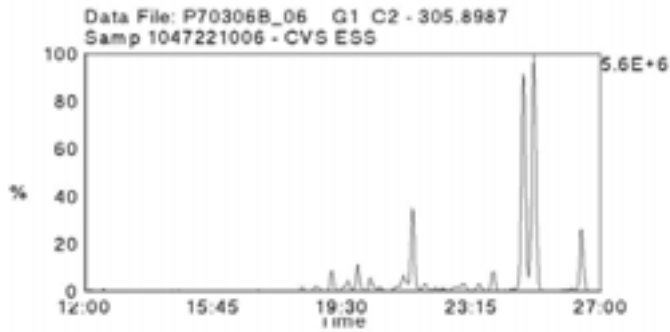
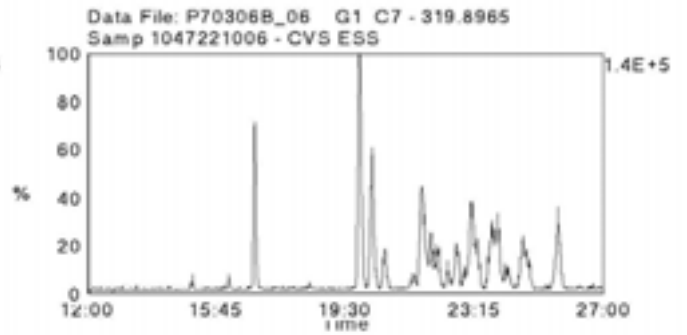
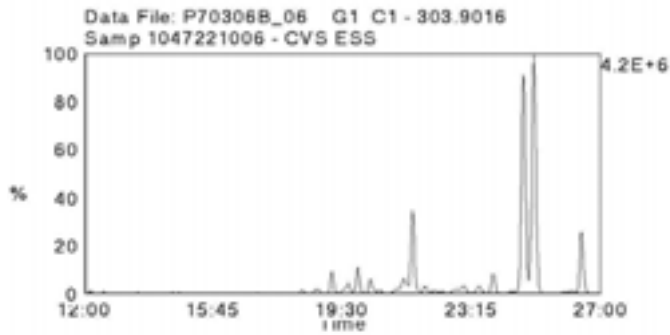
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Date Acquired: 3/7/2007  
Sample Description: Samp 1047221005 - CVS ESS

Lab Sample ID: 1047221005  
Client Sample ID: 0702344-05  
Instrument: 10MSHR09 (P)



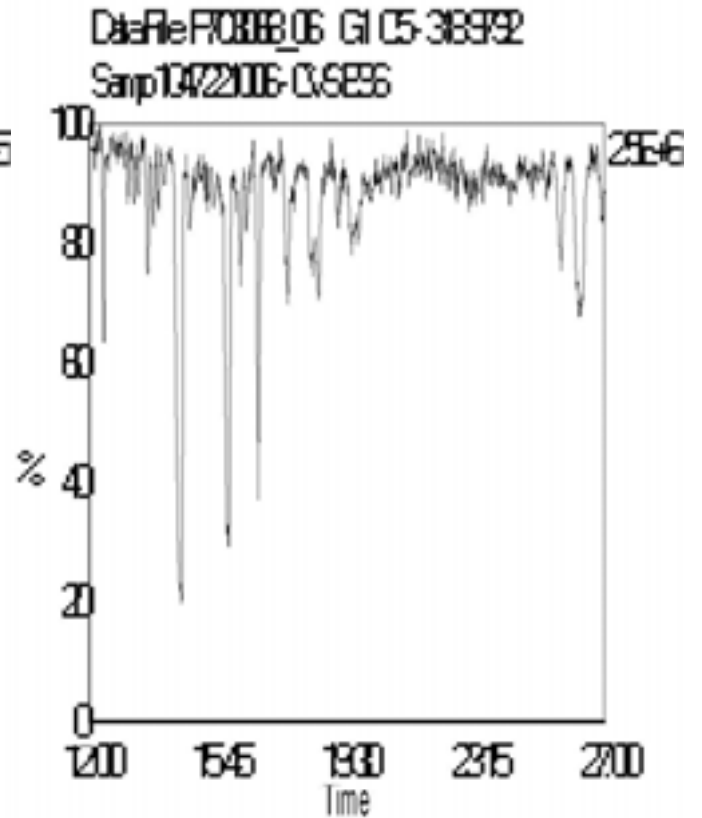
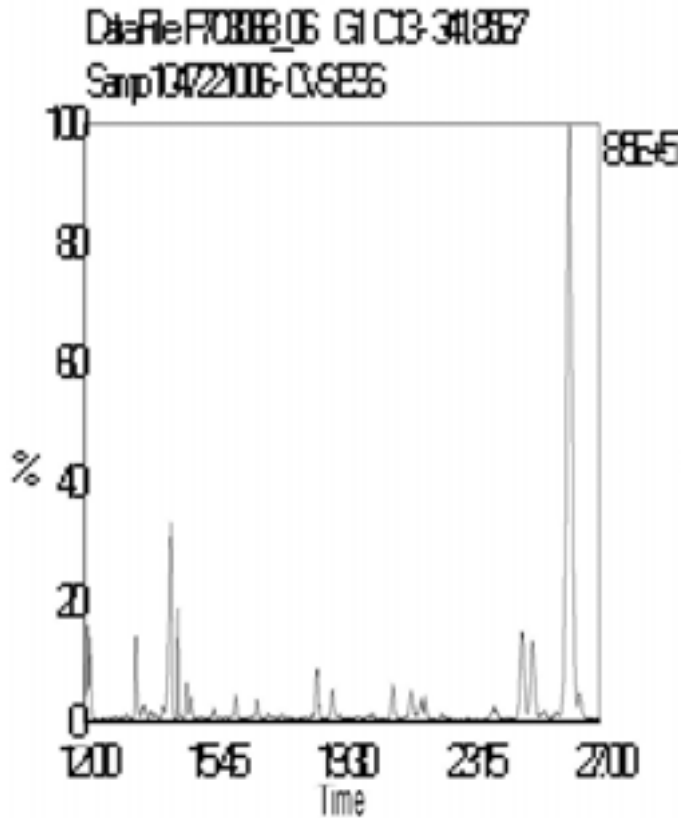
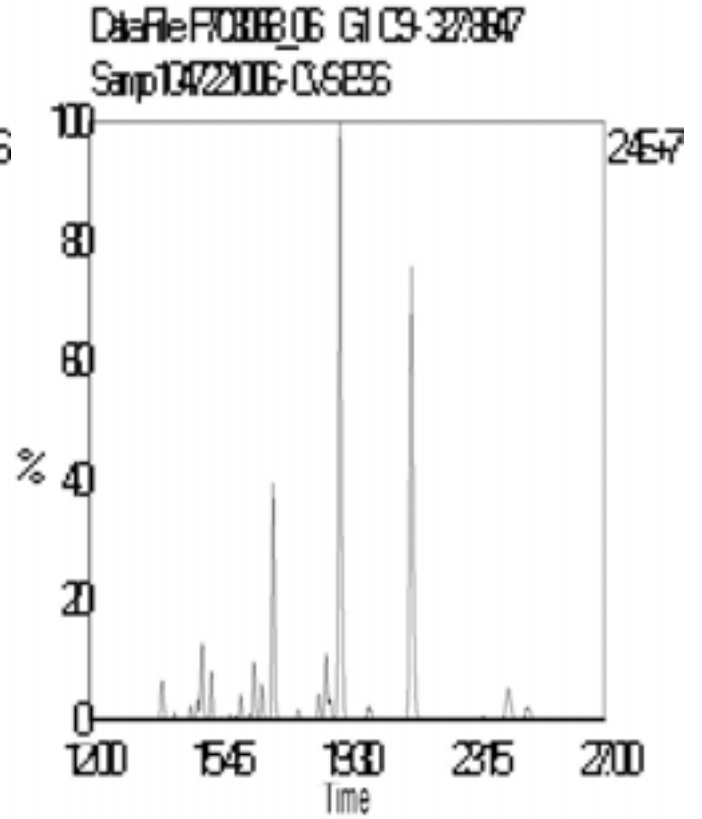
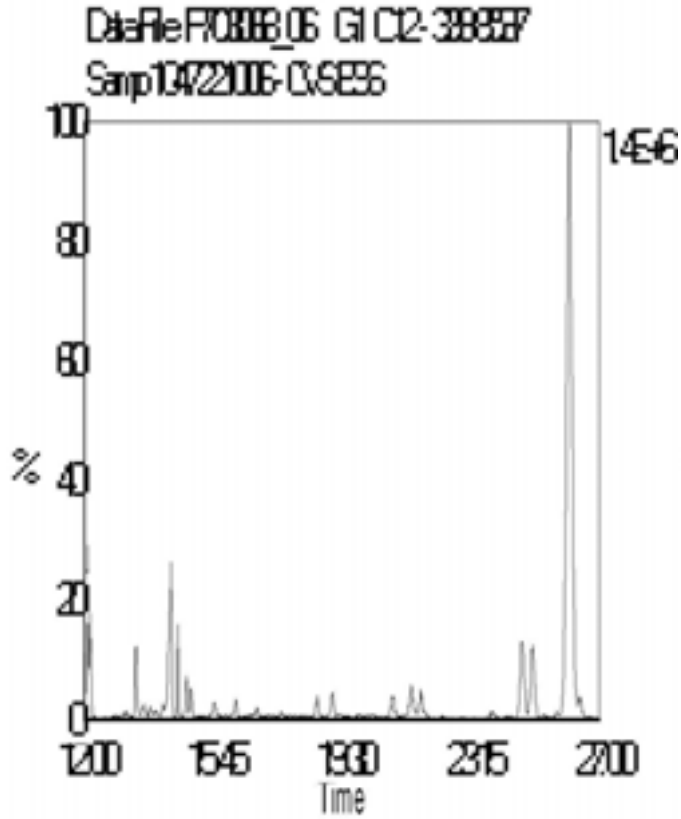
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Date Acquired: 3/7/2007  
Sample Description: Samp 1047221006 - CVS ESS

Lab Sample ID: 1047221006  
Client Sample ID: 0702344-06  
Instrument: 10MSHR09 (P)



Data File Name: P70306B\_06  
Date Acquired: 3/7/2007  
Sample Description: Samp 1047221006 - CVS ESS

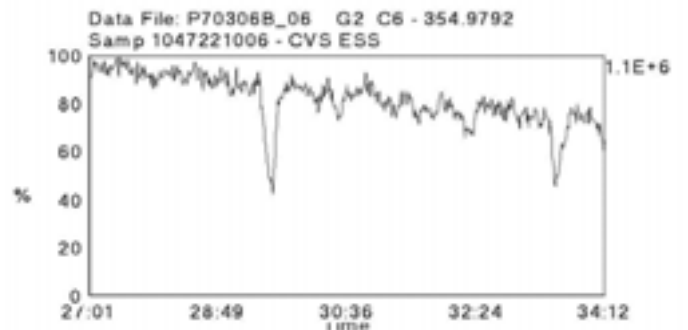
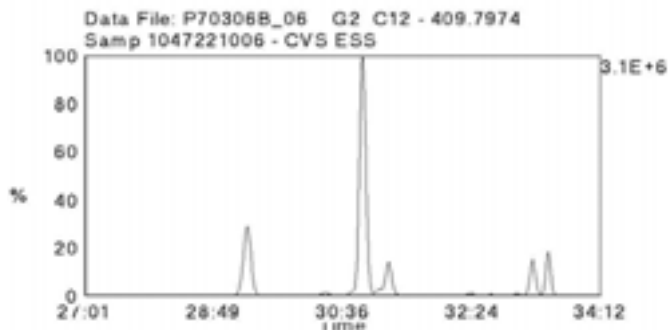
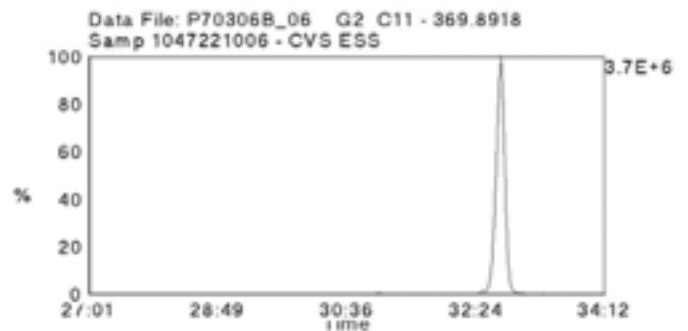
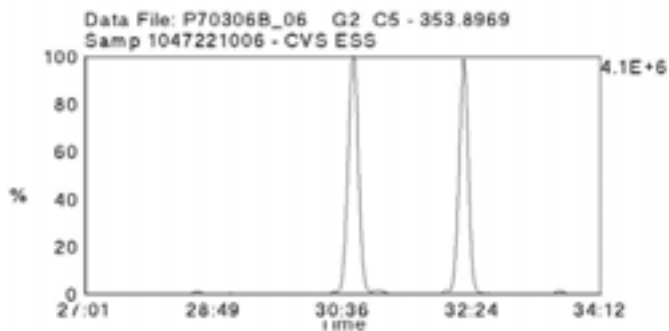
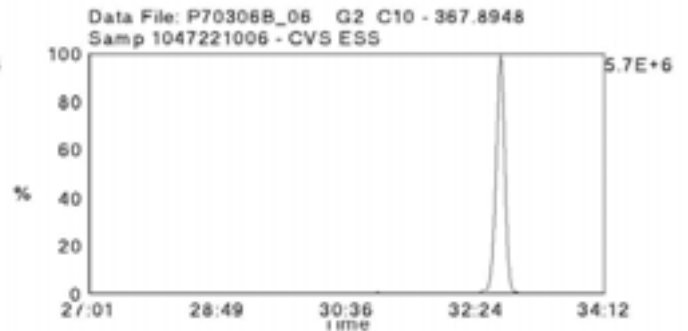
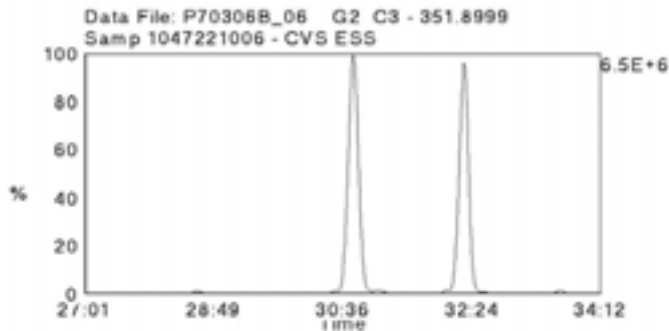
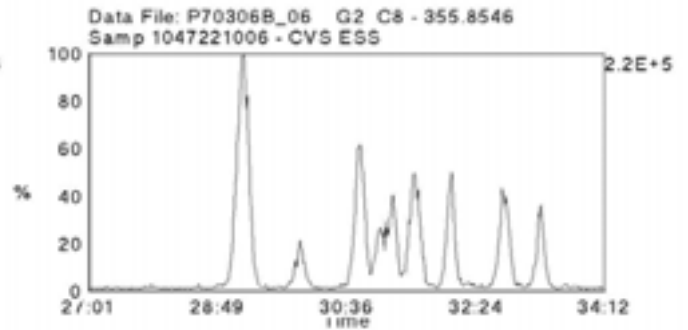
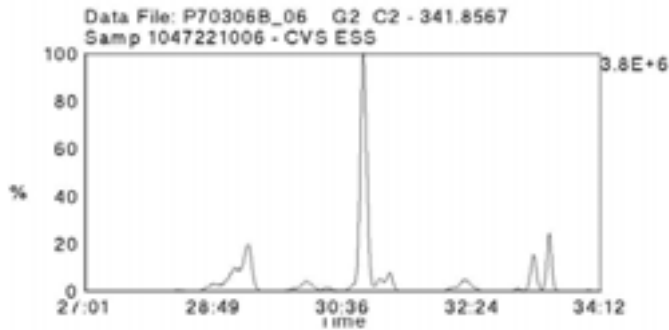
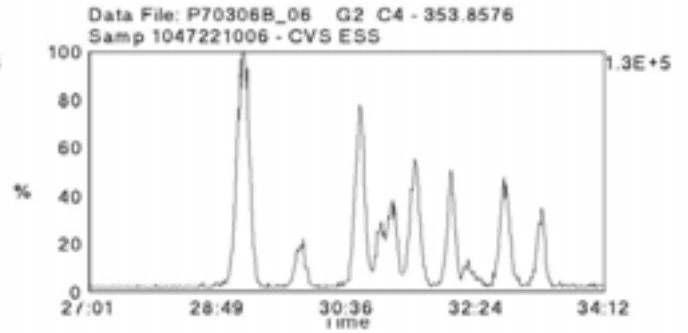
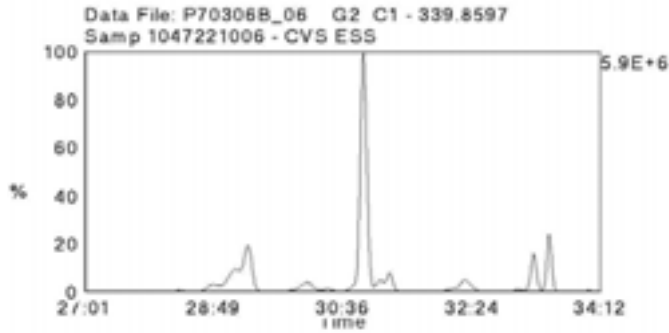
Lab Sample ID: 1047221006  
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Instrument: 10MSHR09 (P)





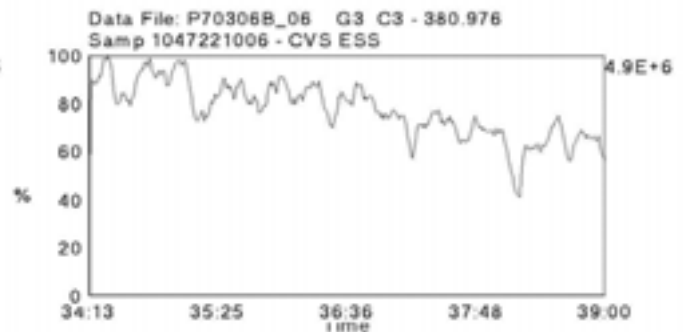
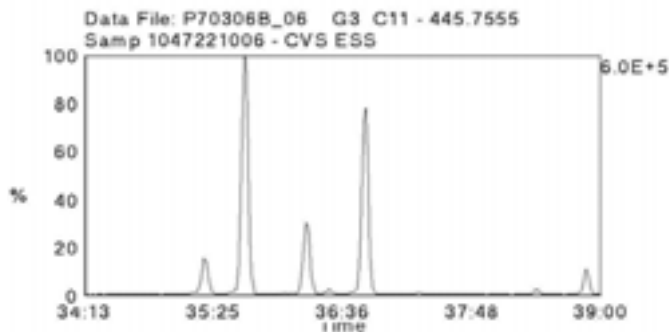
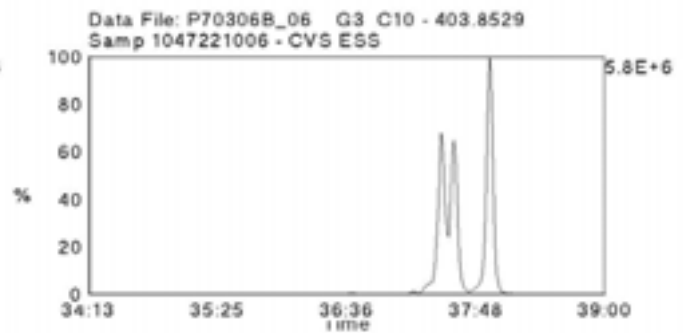
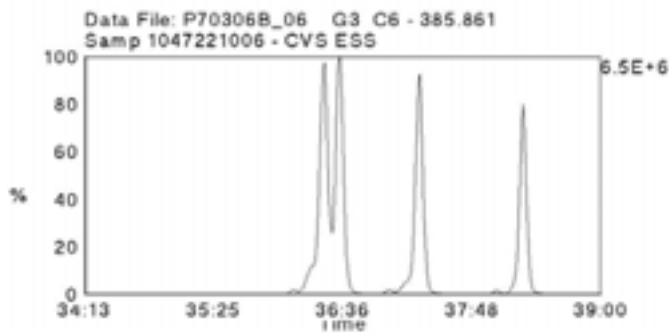
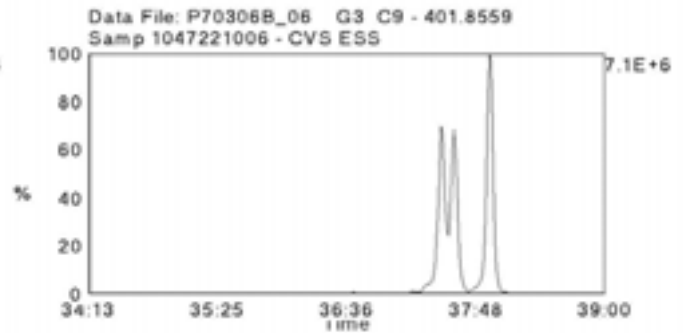
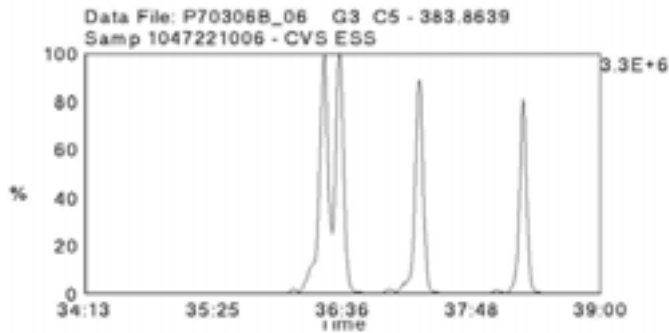
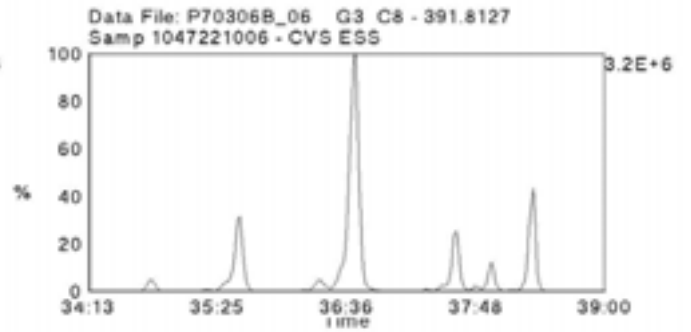
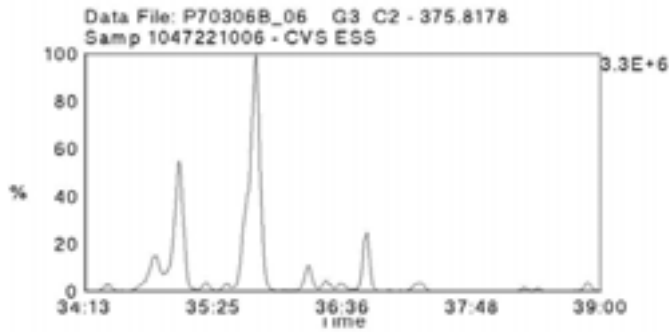
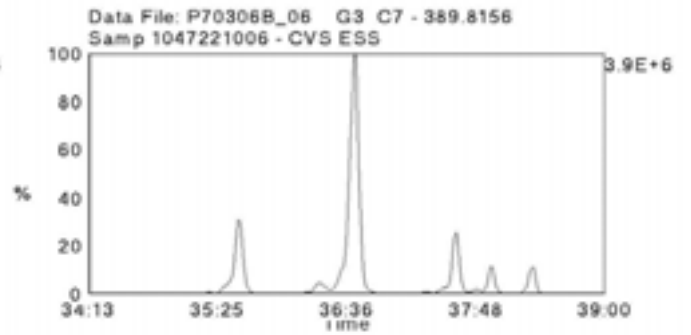
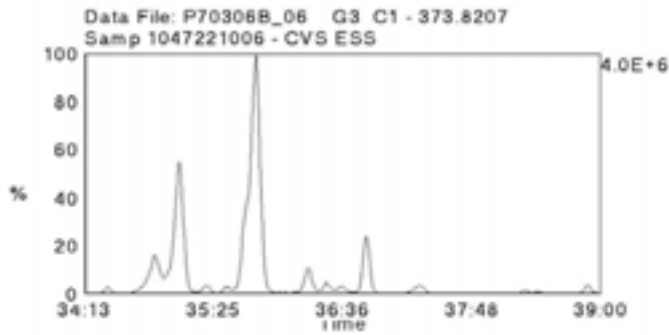
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Date Acquired: 3/7/2007  
Sample Description: Samp 1047221006 - CVS ESS

Lab Sample ID: 1047221006  
Client Sample ID: 0702344-06  
Instrument: 10MSHR09 (P)



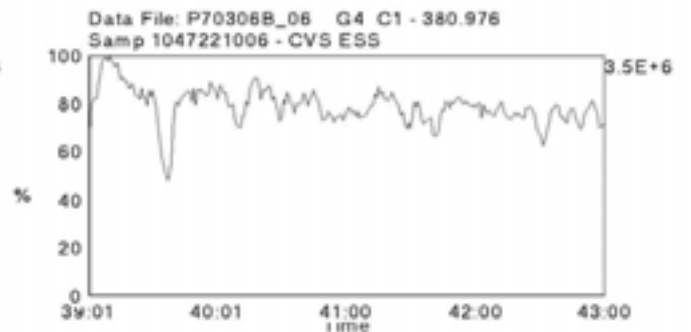
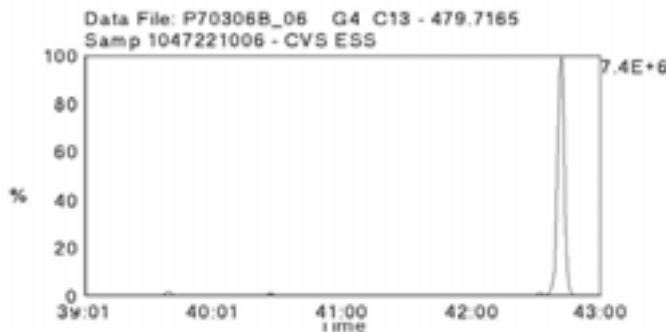
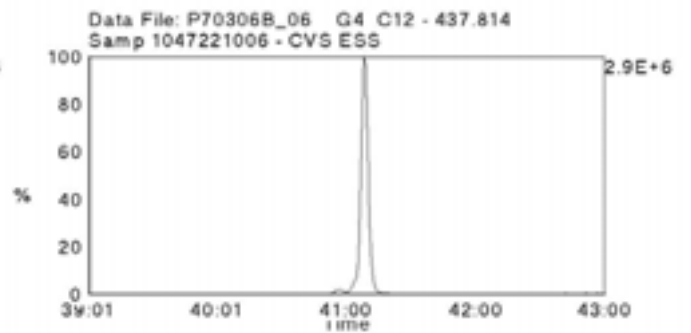
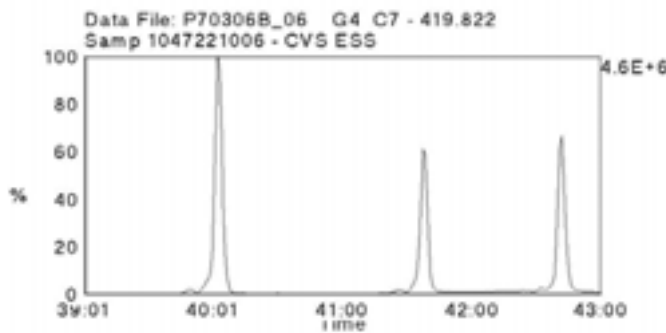
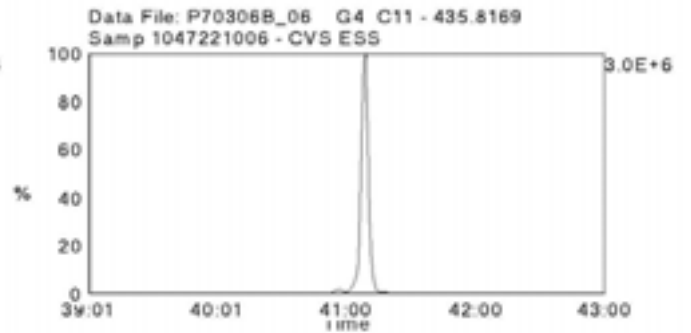
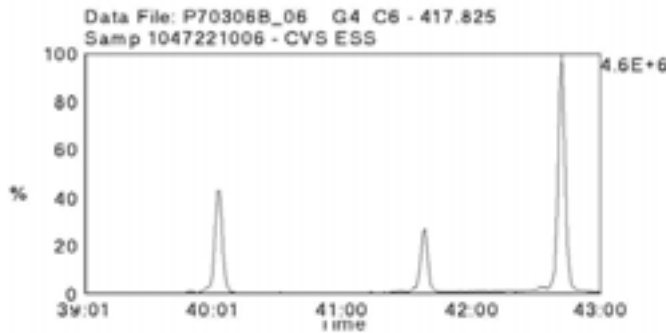
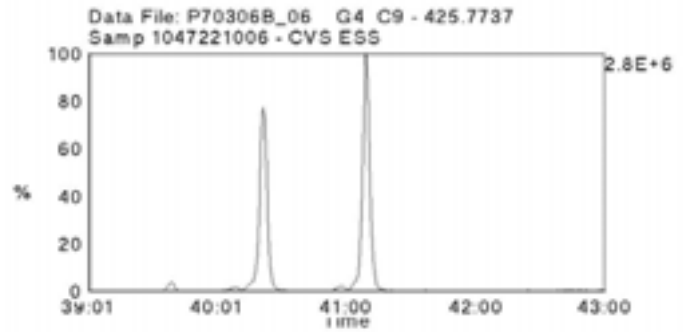
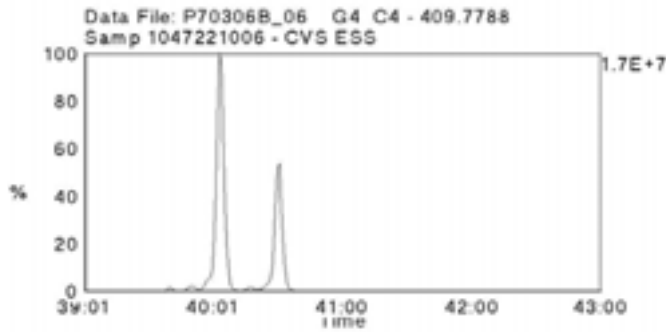
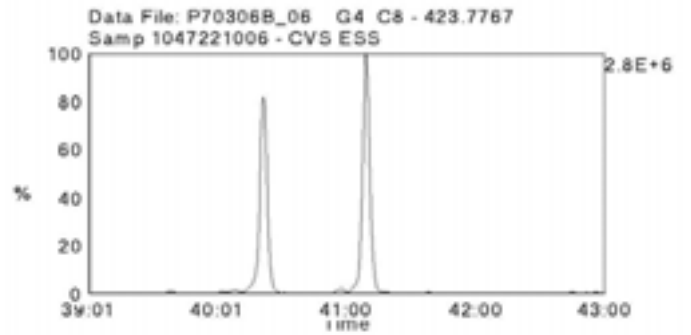
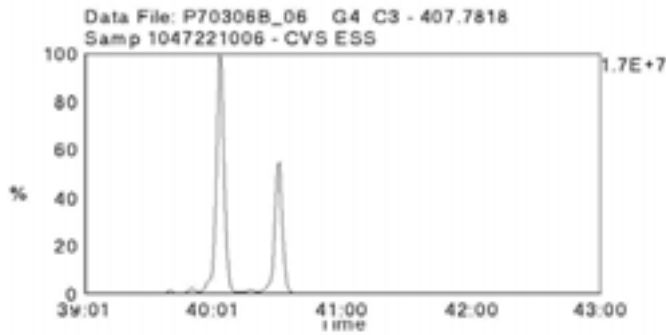
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Date Acquired: 3/7/2007  
Sample Description: Samp 1047221006 - CVS ESS

Lab Sample ID: 1047221006  
Client Sample ID: 0702344-06  
Instrument: 10MSHR09 (P)



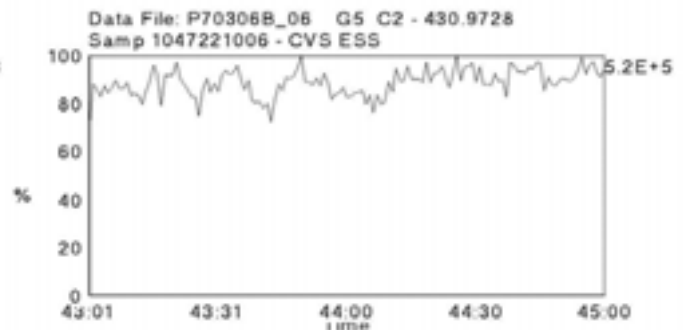
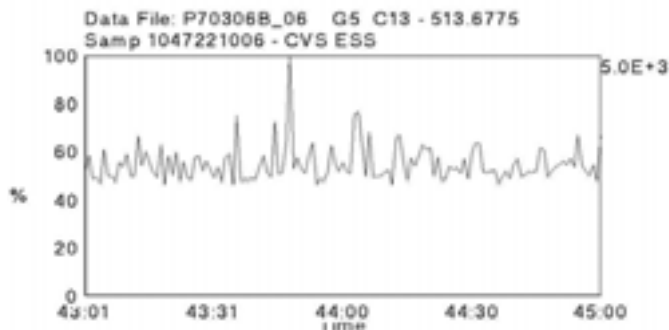
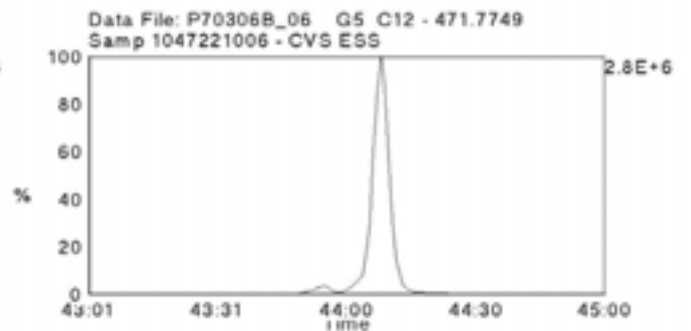
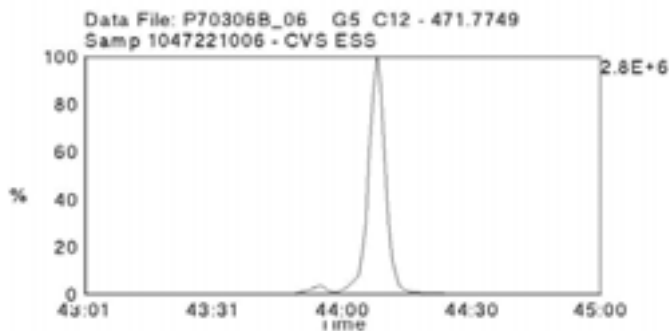
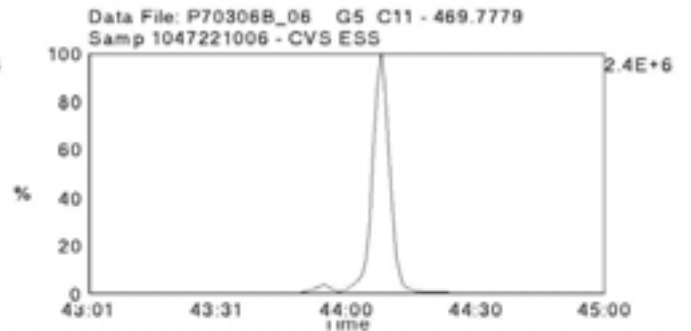
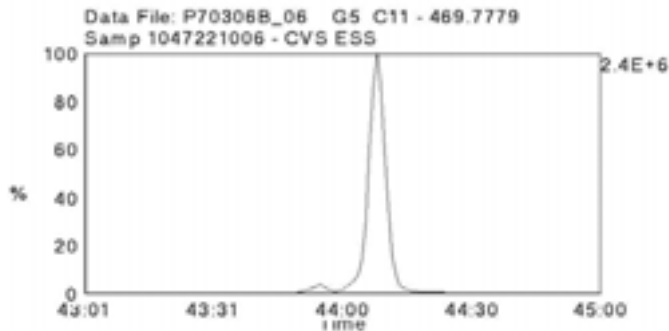
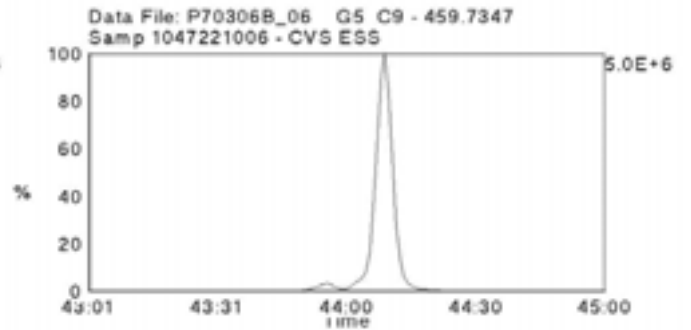
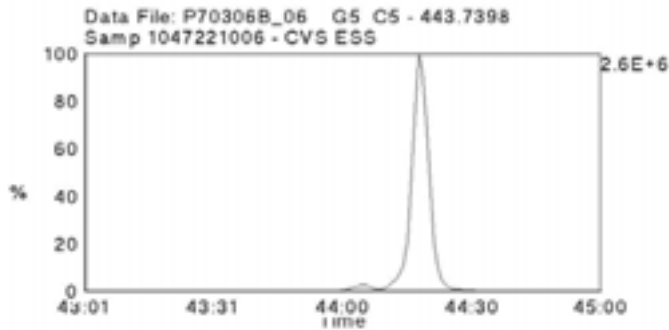
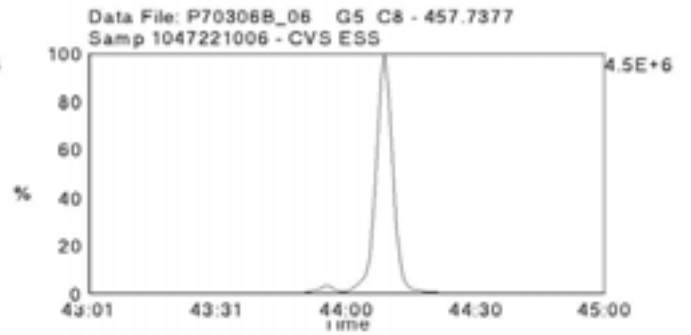
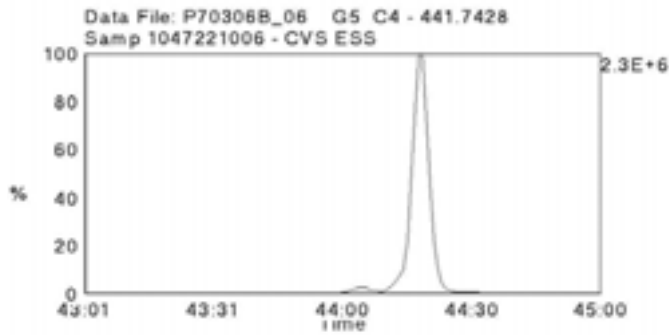
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Date Acquired: 3/7/2007  
Sample Description: Samp 1047221006 - CVS ESS

Lab Sample ID: 1047221006  
Client Sample ID: 0702344-06  
Instrument: 10MSHR09 (P)



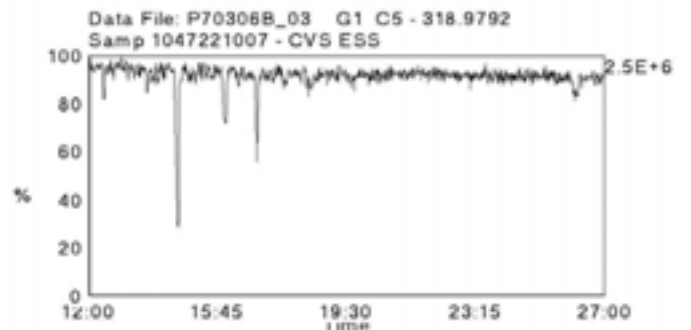
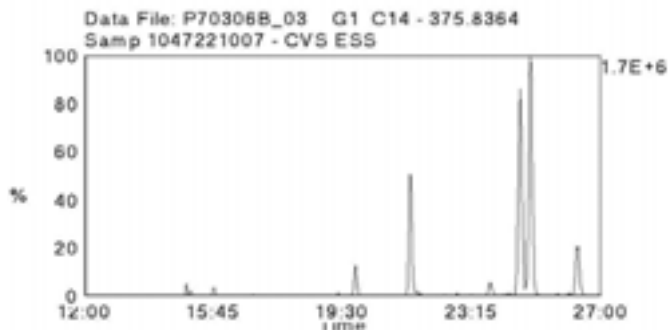
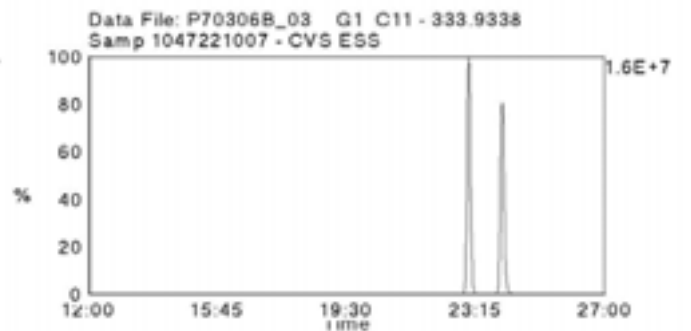
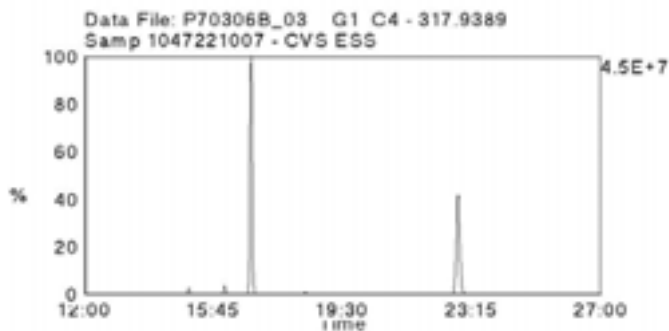
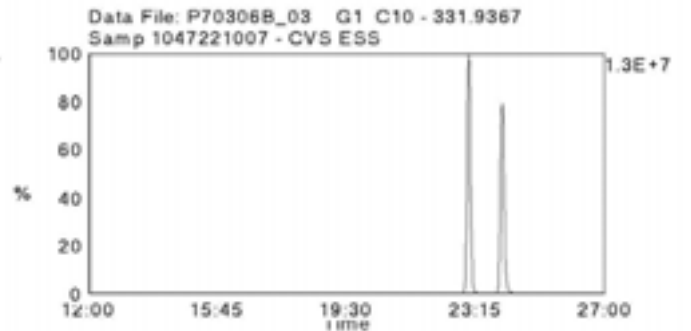
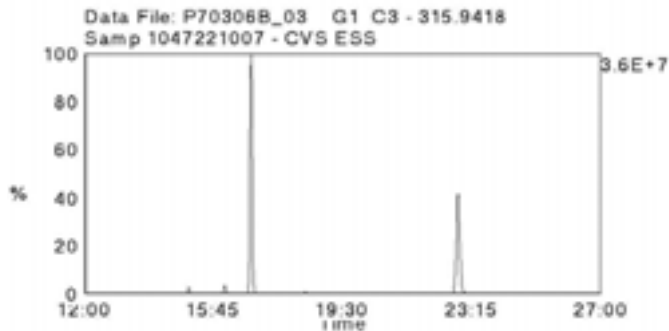
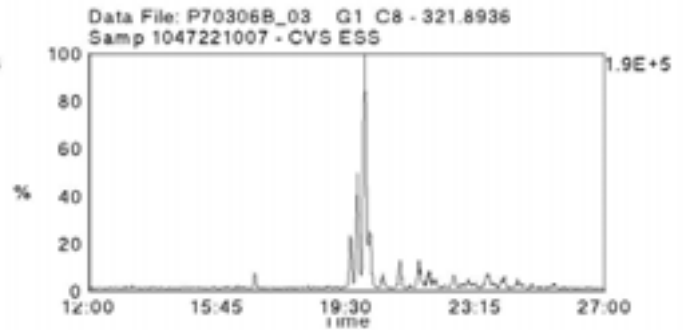
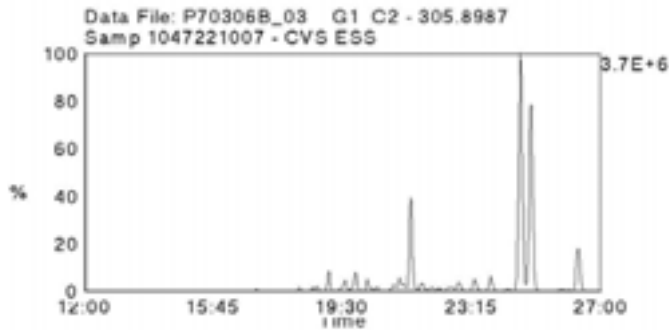
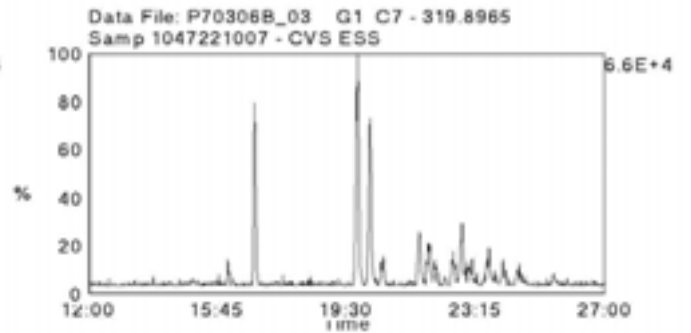
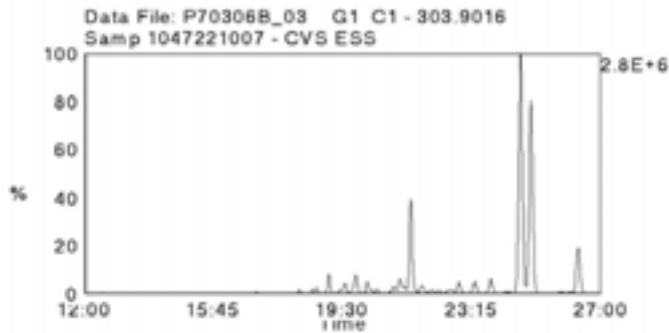
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Date Acquired: 3/7/2007  
Sample Description: Samp 1047221006 - CVS ESS

Lab Sample ID: 1047221006  
Client Sample ID: 0702344-06  
Instrument: 10MSHR09 (P)



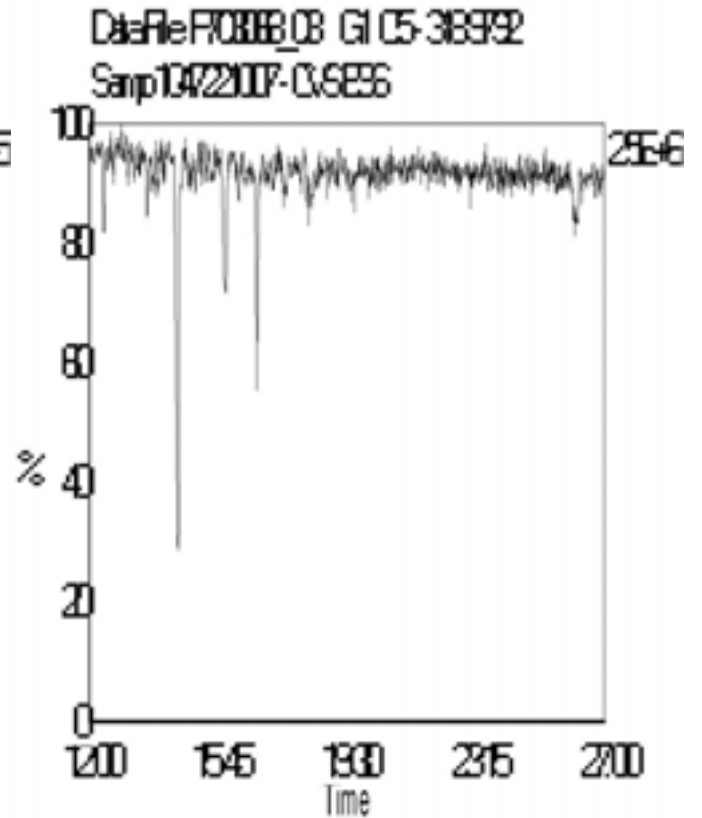
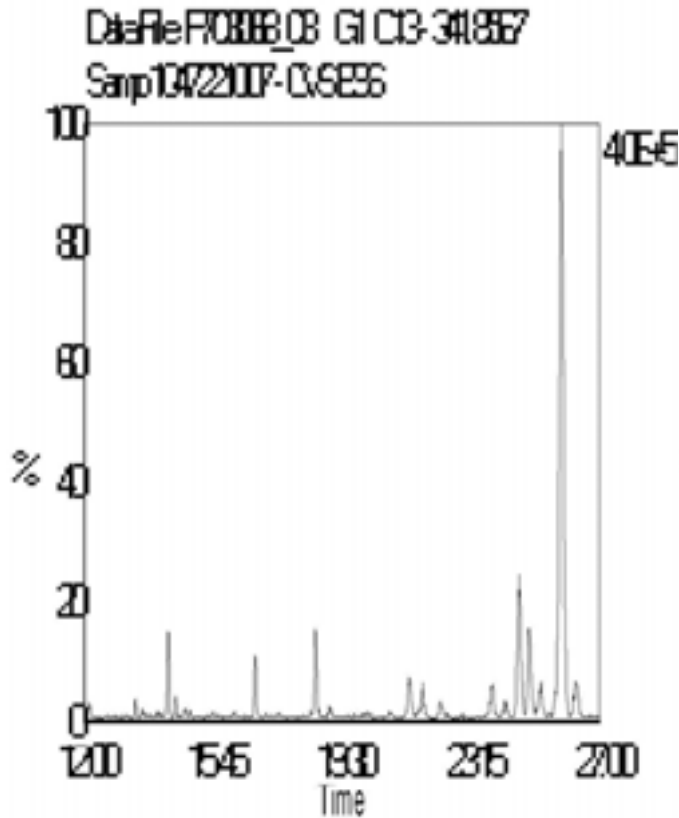
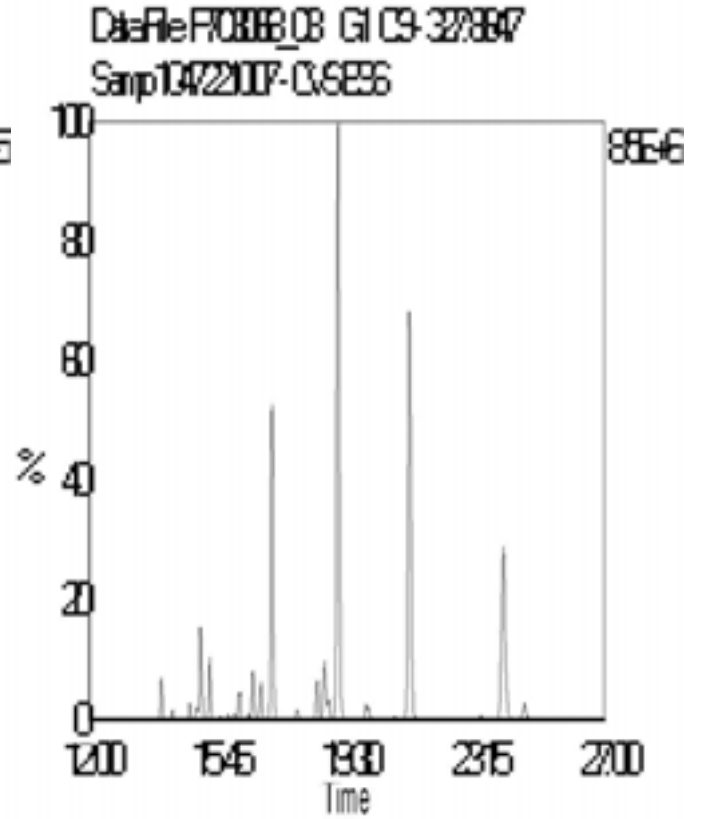
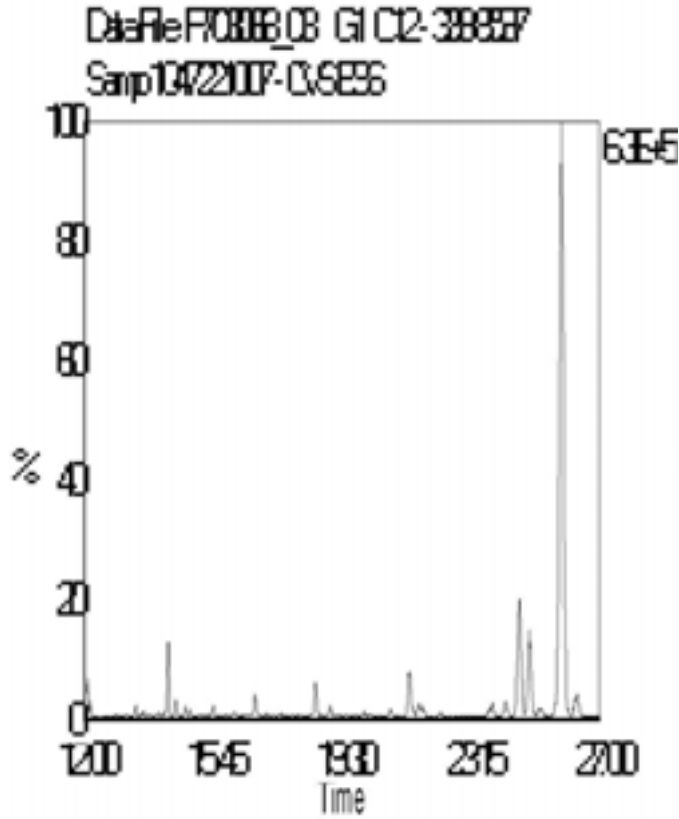
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Date Acquired: 3/7/2007  
Sample Description: Samp 1047221007 - CVS ESS

Lab Sample ID: 1047221007  
Client Sample ID: 0702344-07  
Instrument: 10MSHR09 (P)



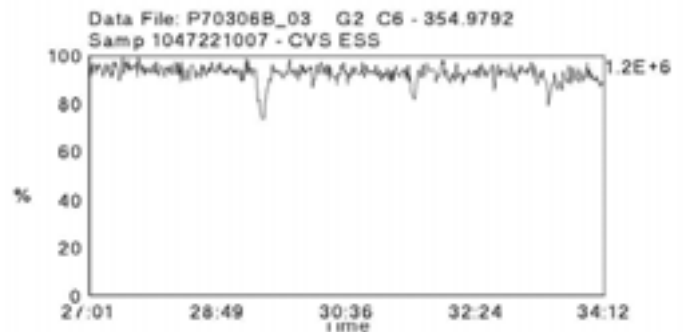
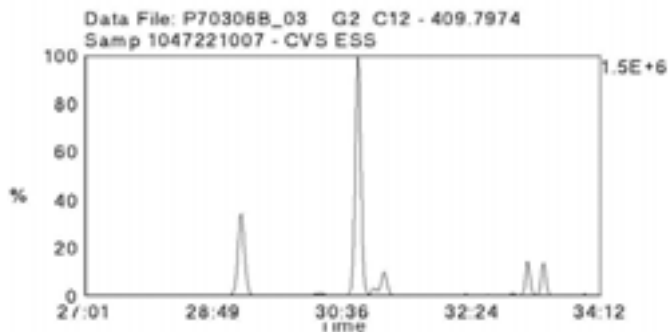
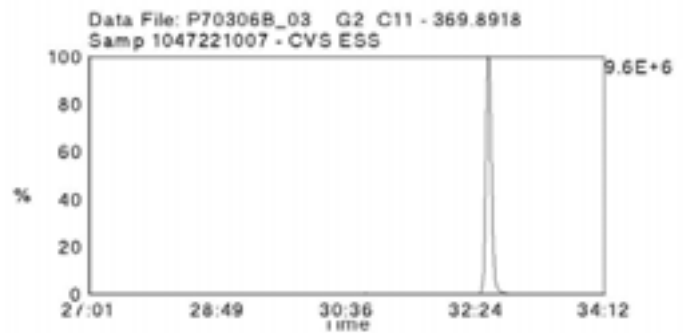
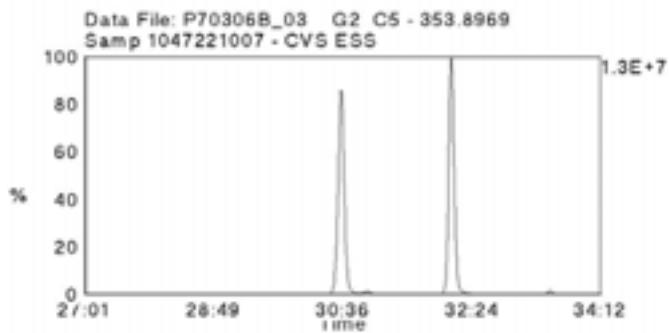
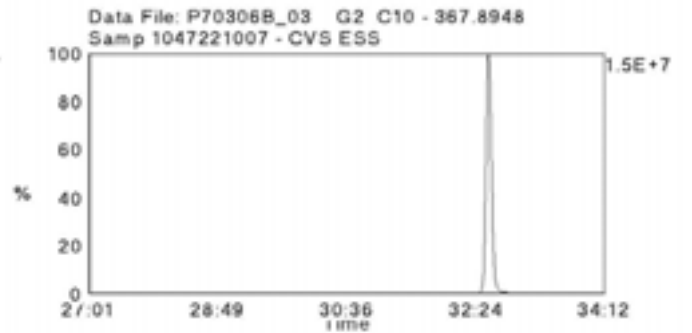
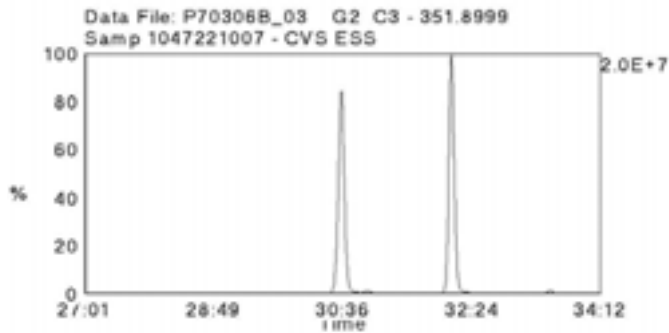
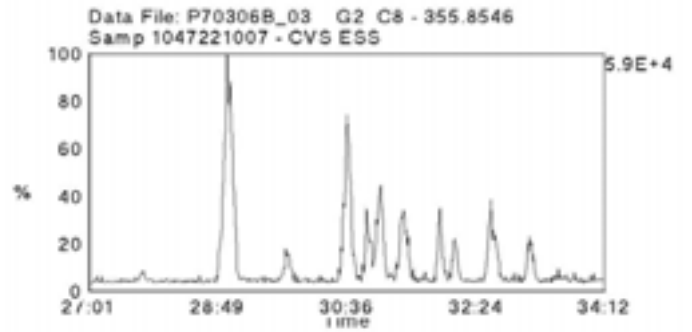
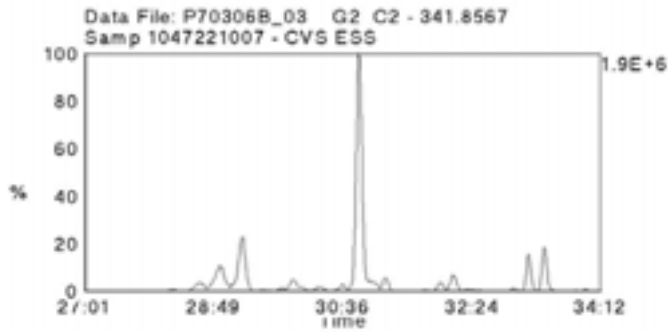
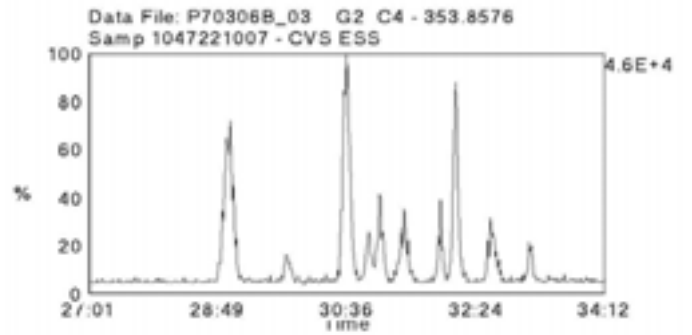
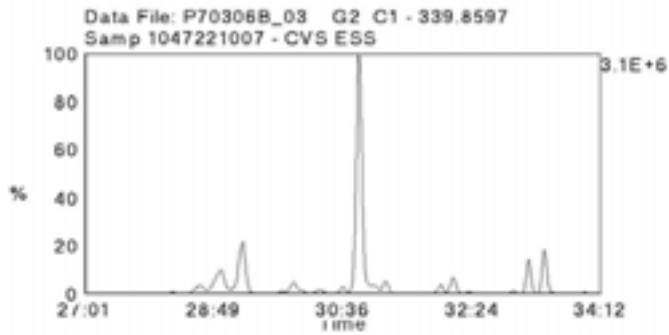
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Date Acquired: 3/7/2007  
Sample Description: Samp 1047221007 - CVS ESS

Lab Sample ID: 1047221007  
Client Sample ID: 0702344-07  
Instrument: 10MSHR09 (P)



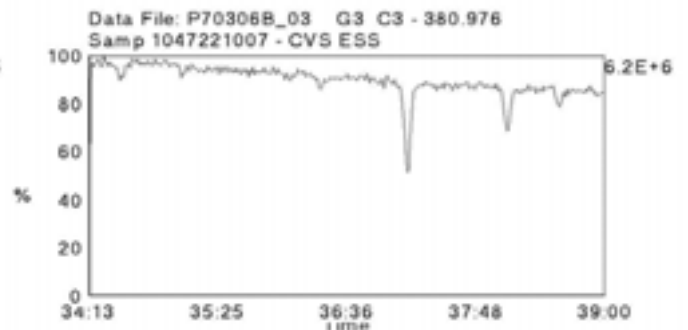
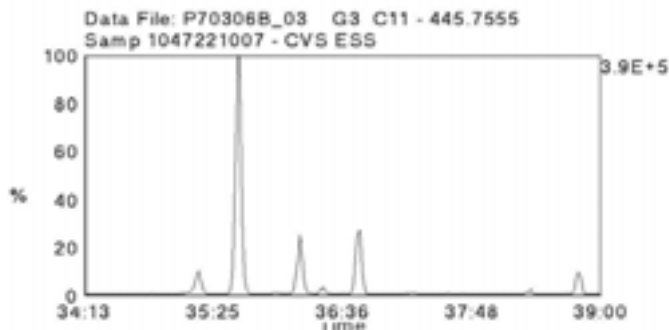
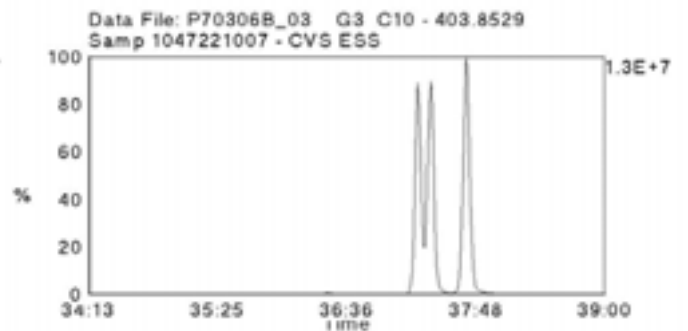
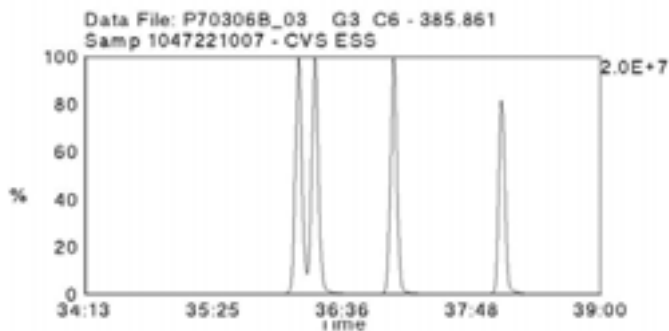
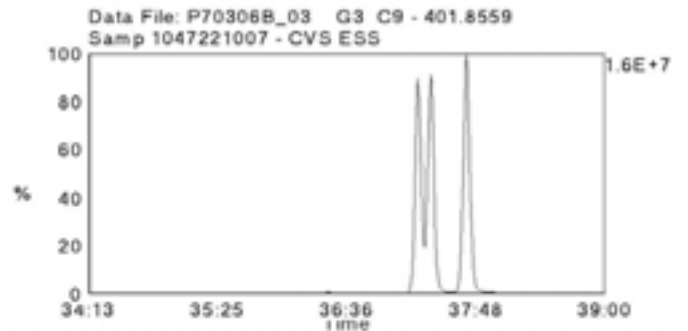
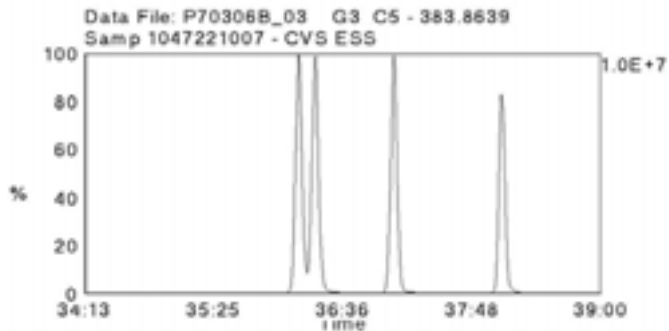
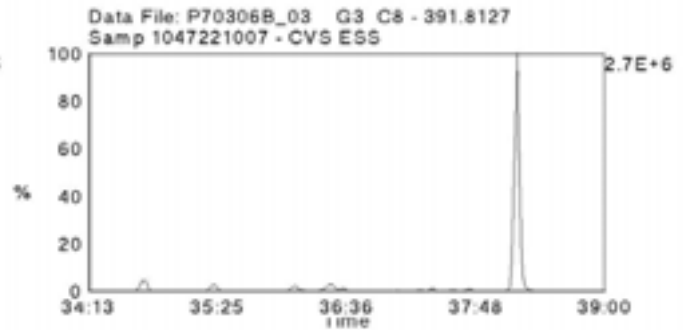
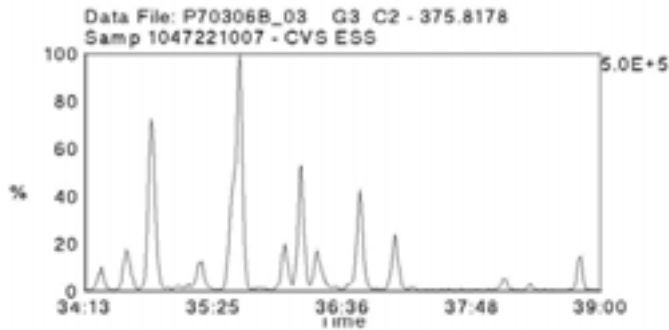
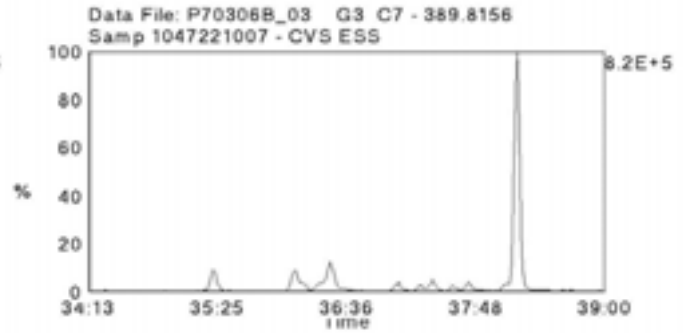
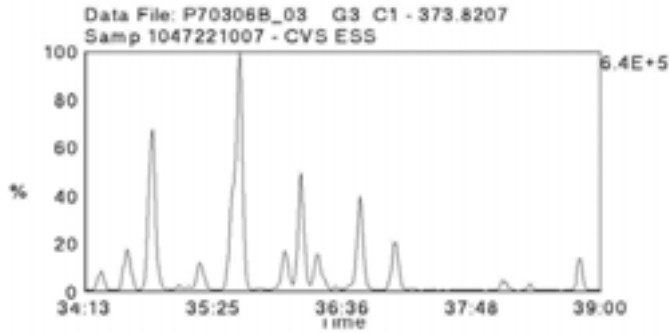
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Date Acquired: 3/7/2007  
Sample Description: Samp 1047221007 - CVS ESS

Lab Sample ID: 1047221007  
Client Sample ID: 0702344-07  
Instrument: 10MSHR09 (P)



Data File Name: P70306B\_03  
Date Acquired: 3/7/2007  
Sample Description: Samp 1047221007 - CVS ESS

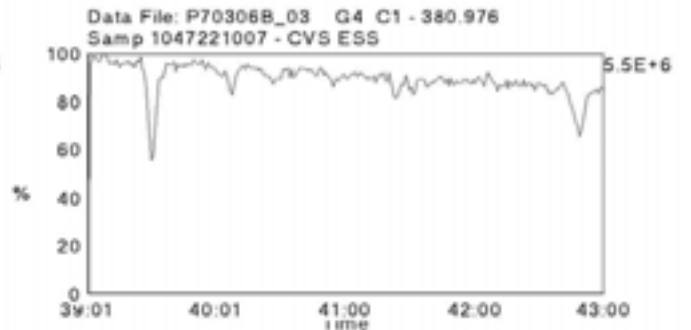
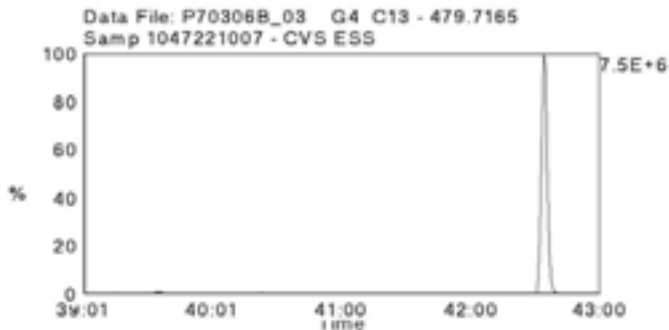
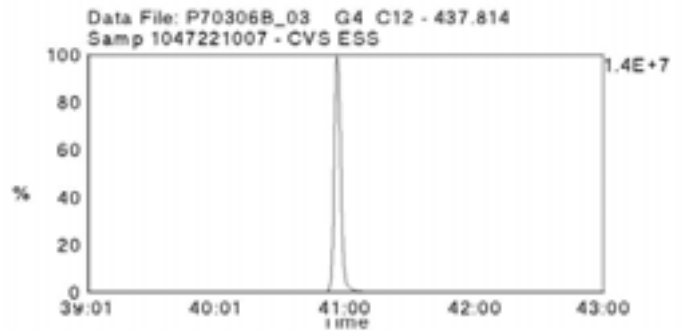
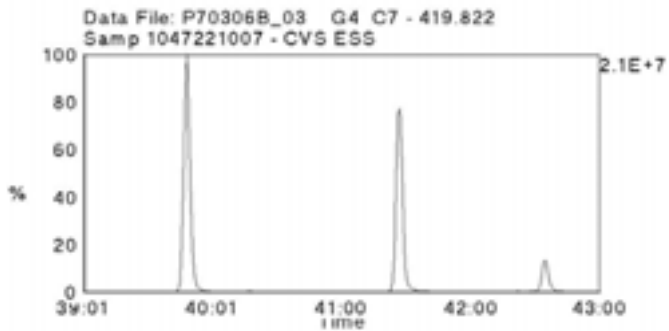
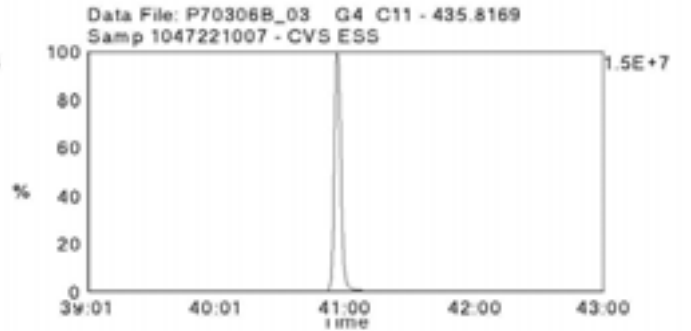
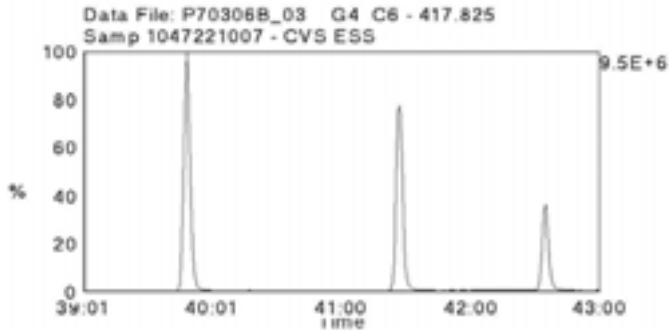
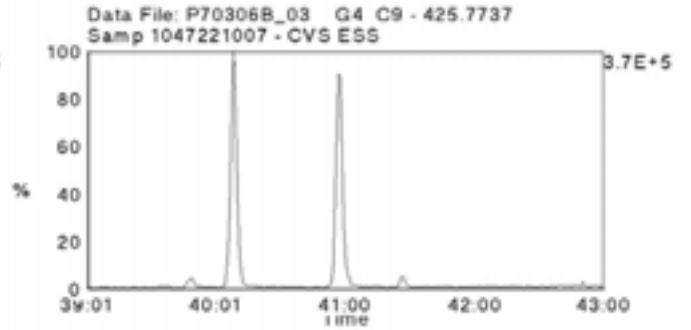
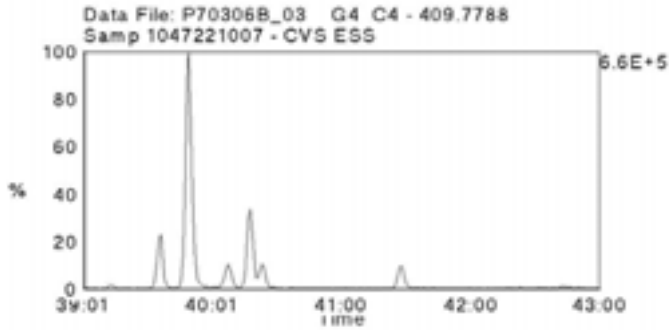
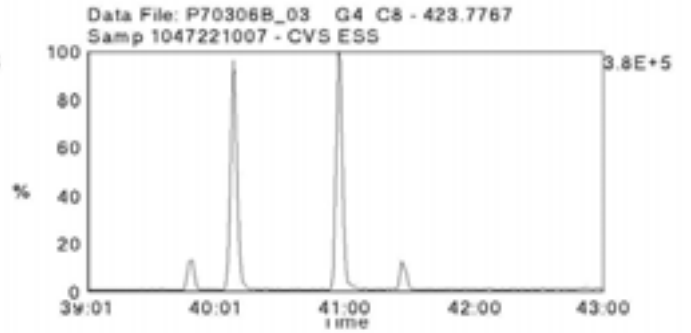
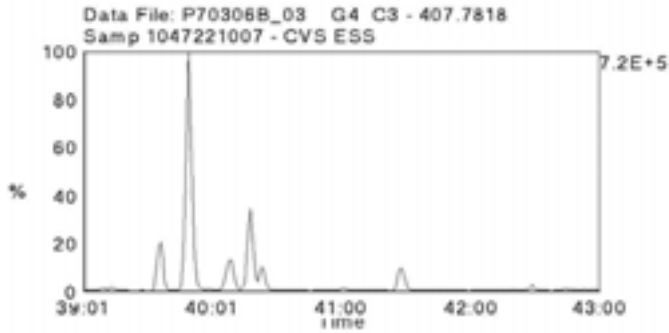
Lab Sample ID: 1047221007  
Client Sample ID: 0702344-07  
Instrument: 10MSHR09 (P)





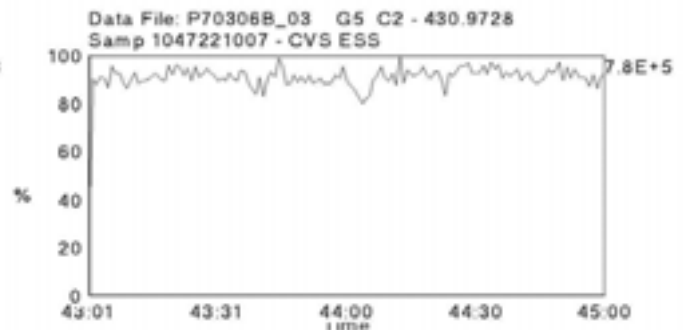
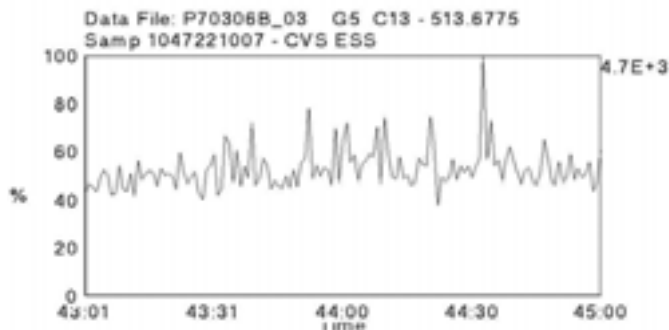
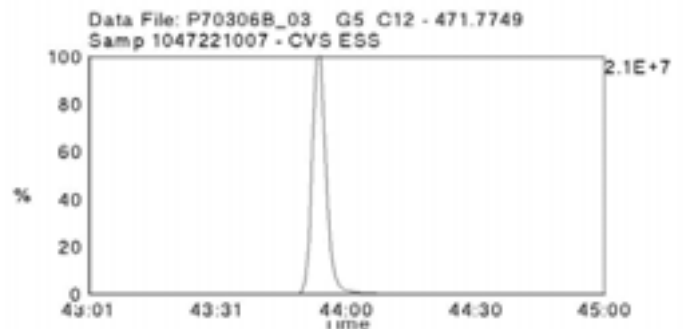
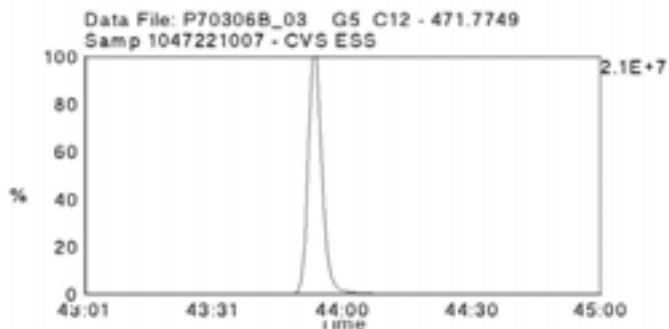
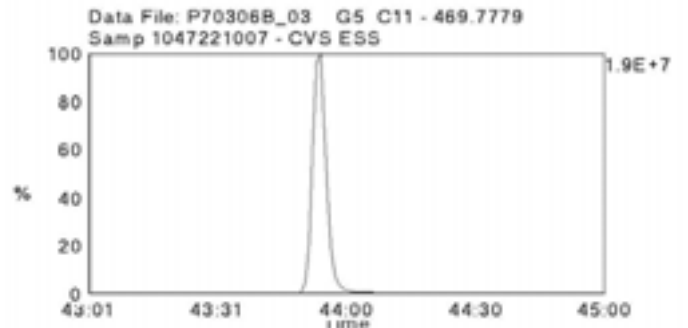
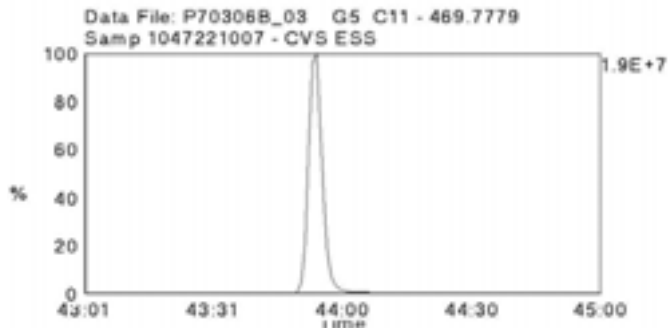
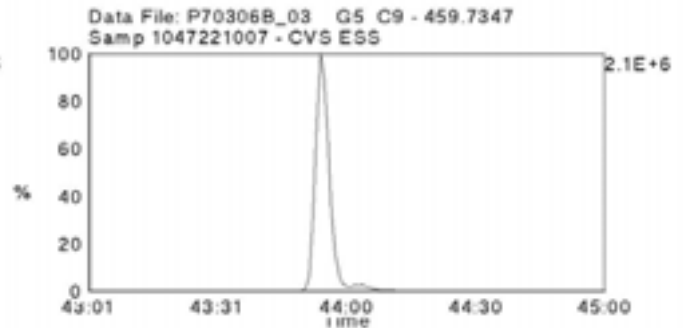
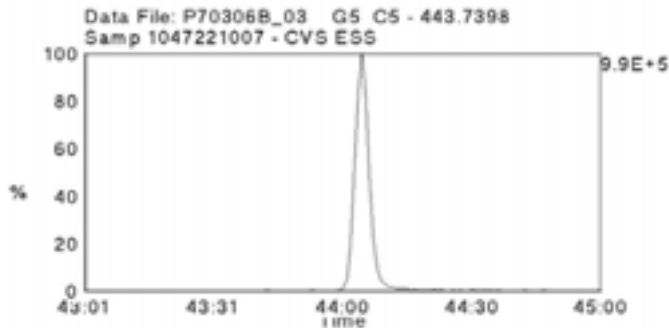
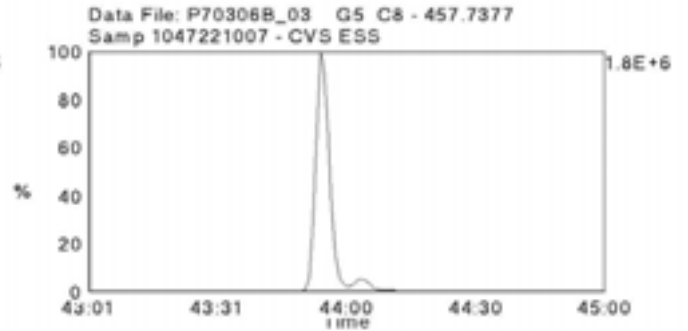
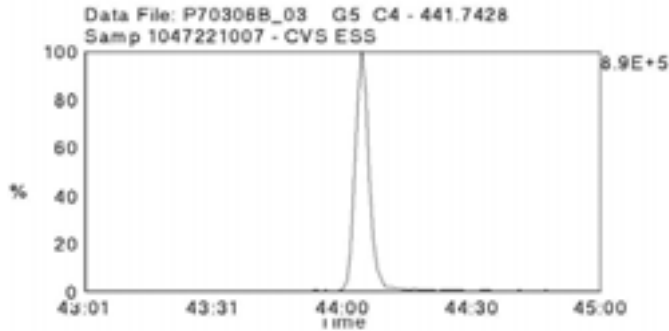
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Date Acquired: 3/7/2007  
Sample Description: Samp 1047221007 - CVS ESS

Lab Sample ID: 1047221007  
Client Sample ID: 0702344-07  
Instrument: 10MSHR09 (P)



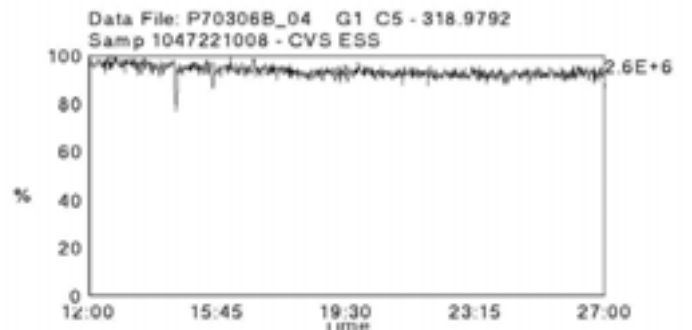
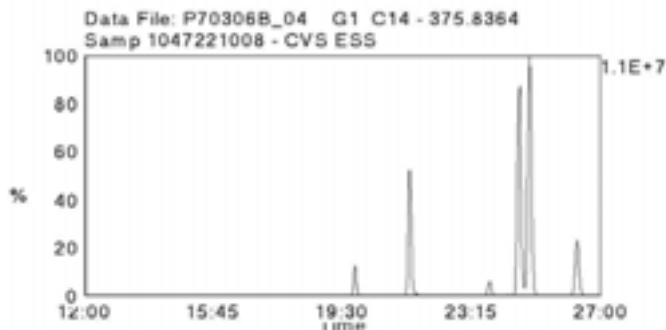
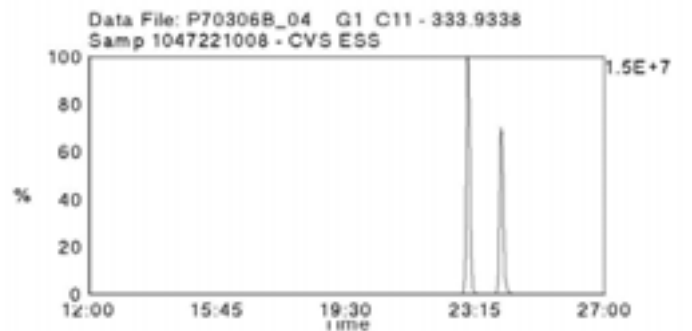
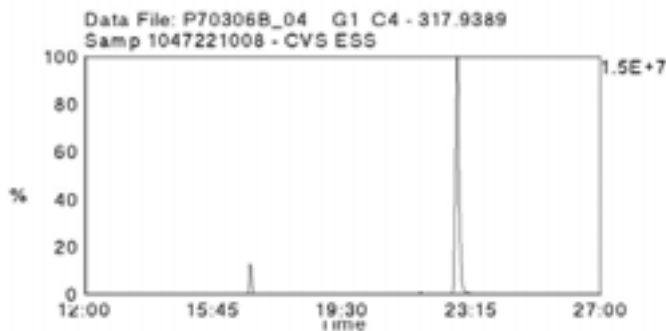
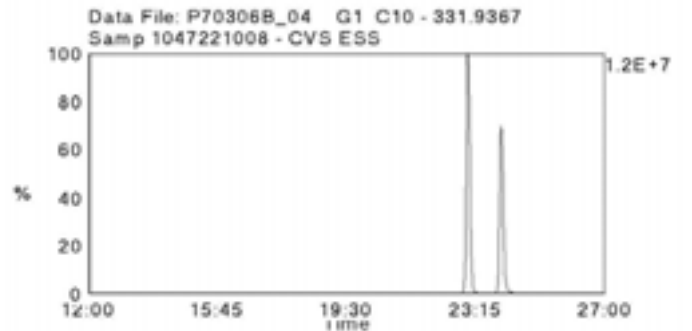
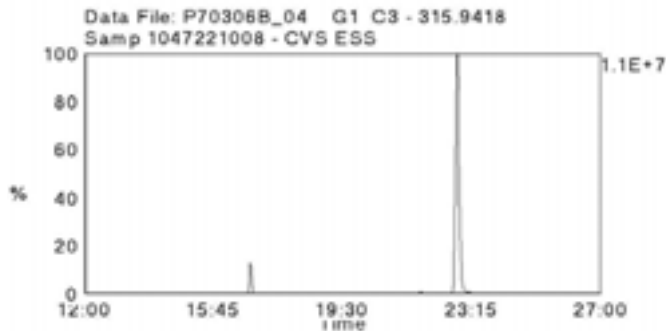
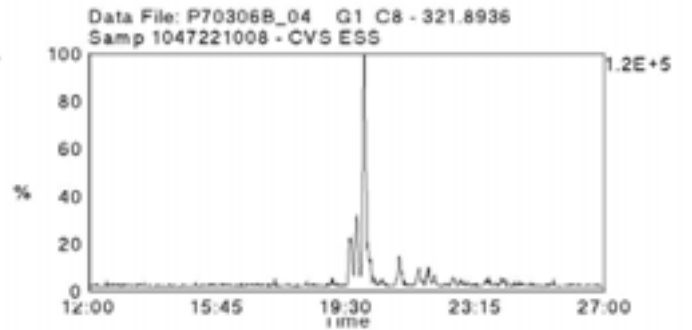
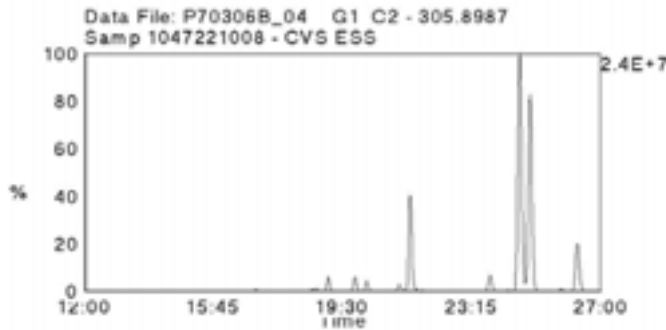
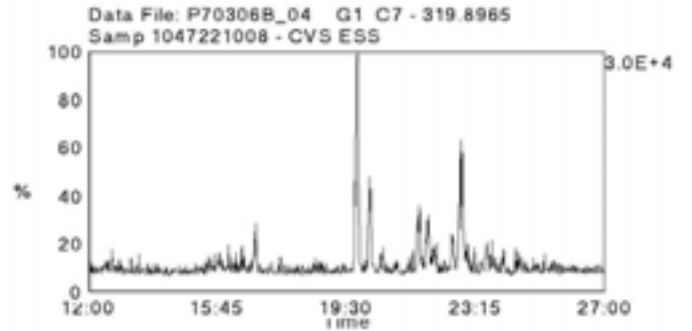
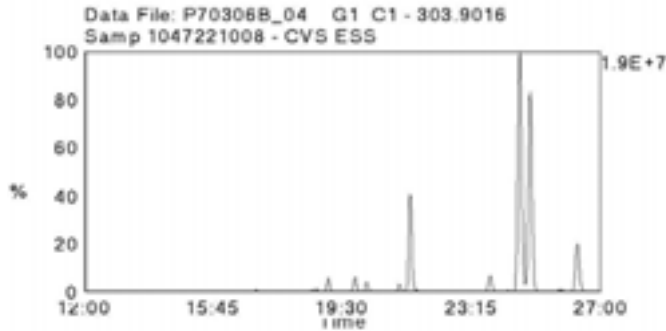
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Date Acquired: 3/7/2007  
Sample Description: Samp 1047221007 - CVS ESS

Lab Sample ID: 1047221007  
Client Sample ID: 0702344-07  
Instrument: 10MSHR09 (P)



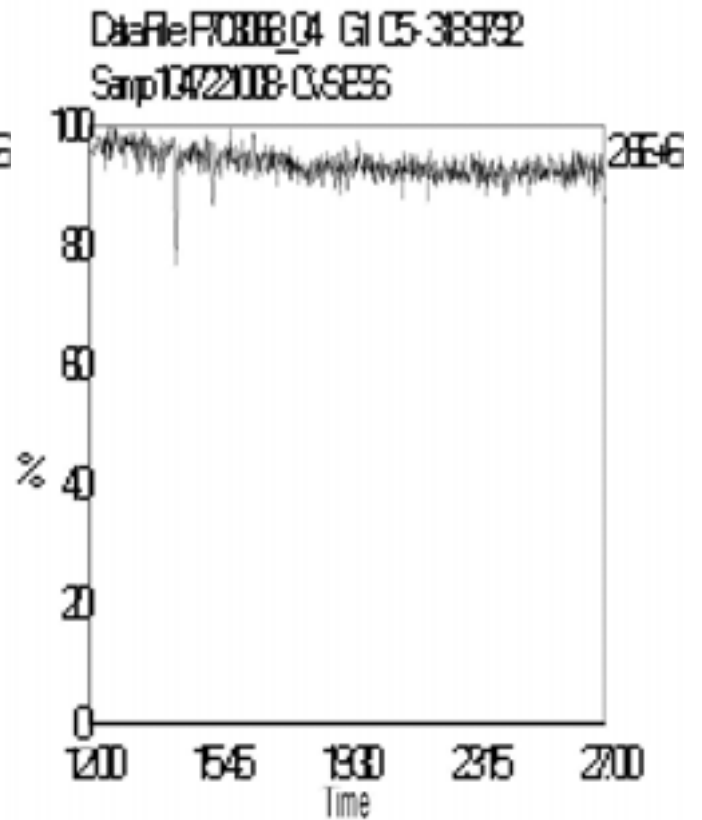
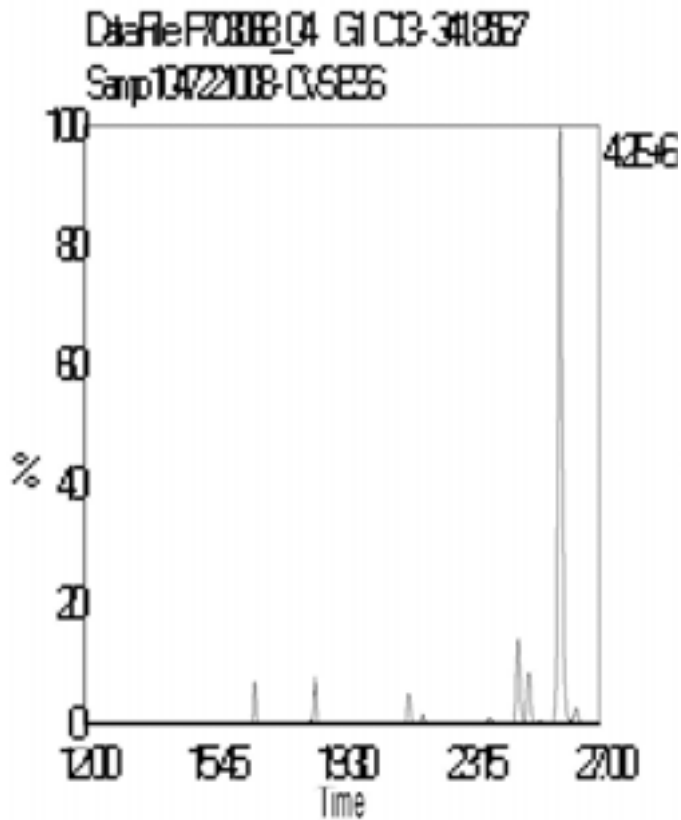
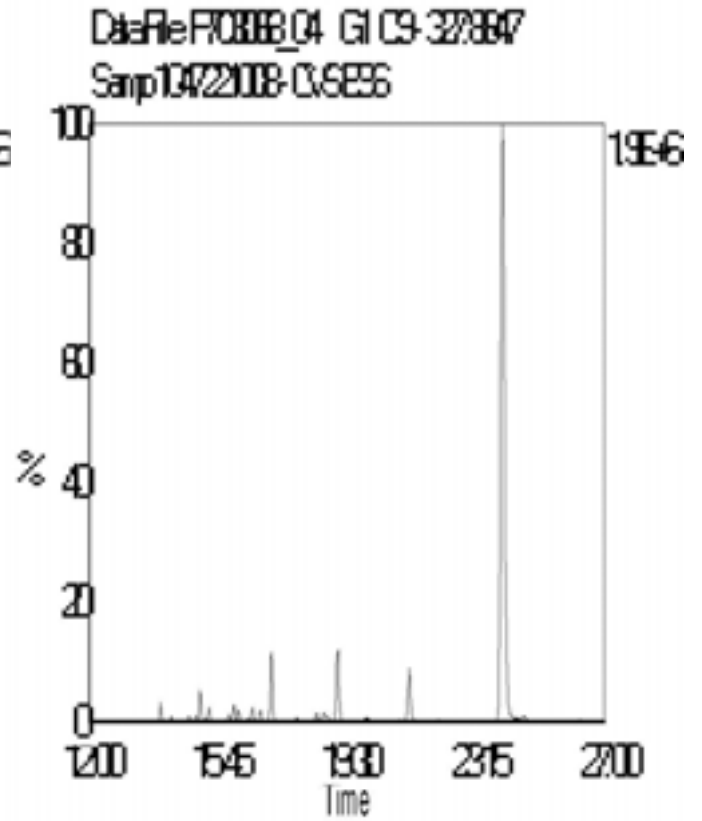
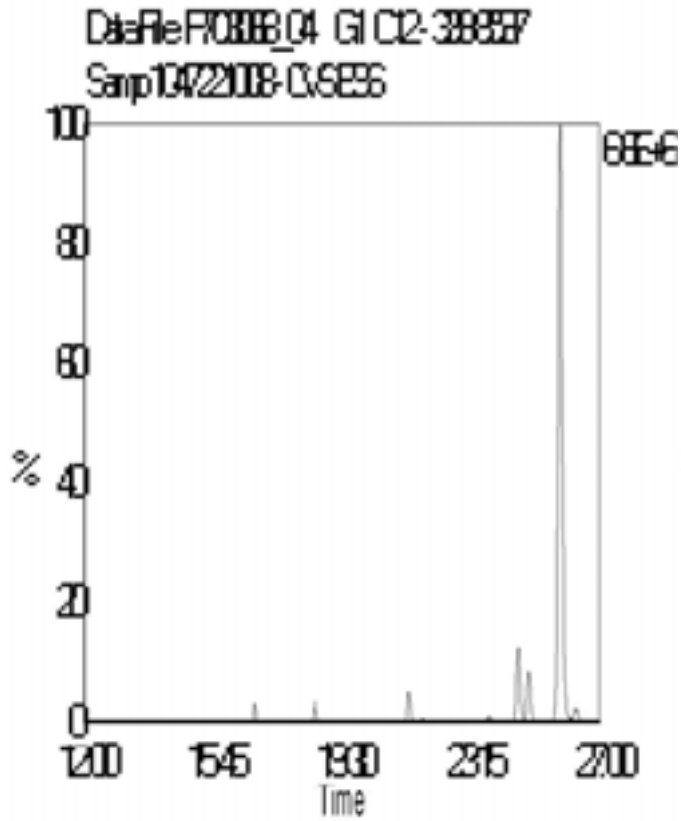
Data File Name: P70306B\_04  
Date Acquired: 3/7/2007  
Sample Description: Samp 1047221008 - CVS ESS

Lab Sample ID: 1047221008  
Client Sample ID: 0702344-08  
Instrument: 10MSHR09 (P)



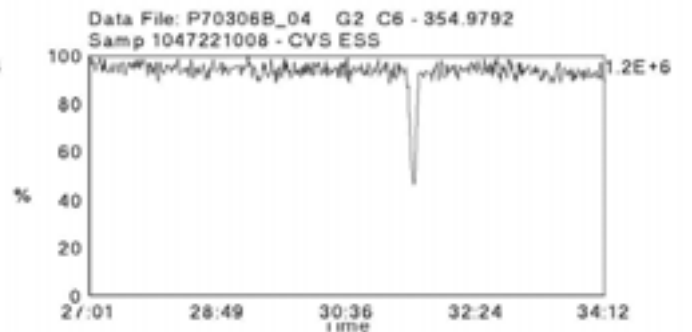
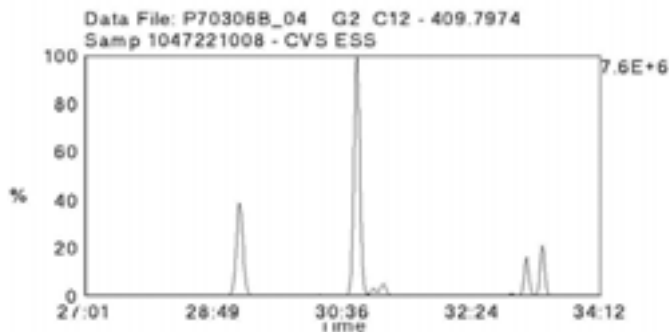
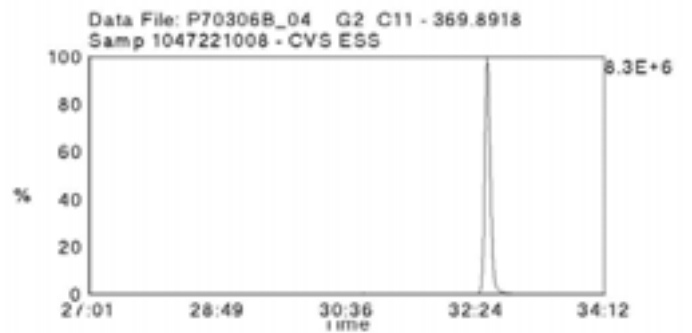
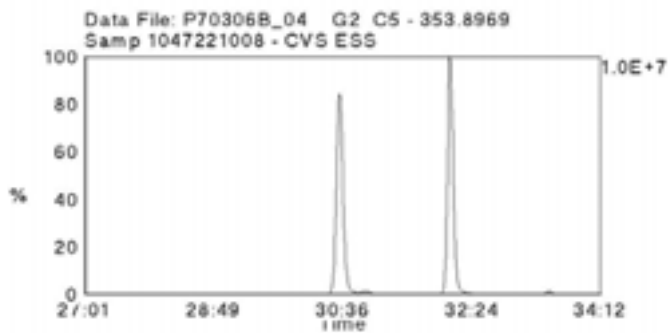
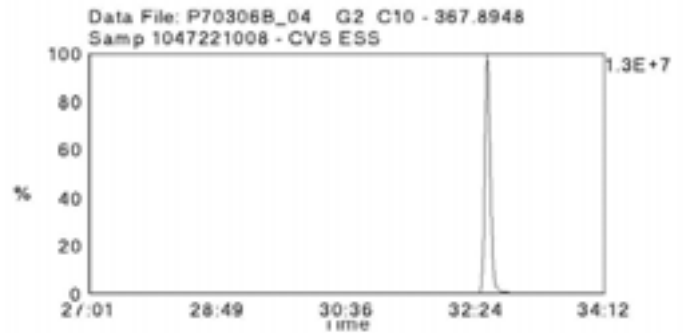
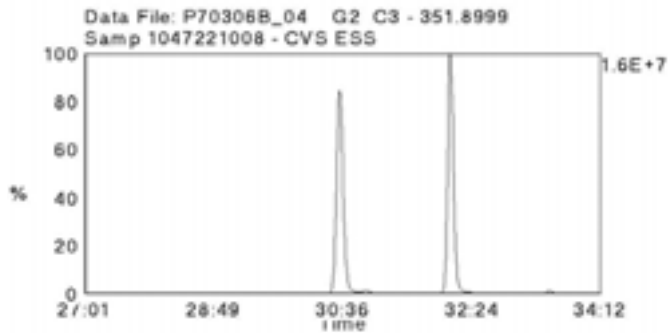
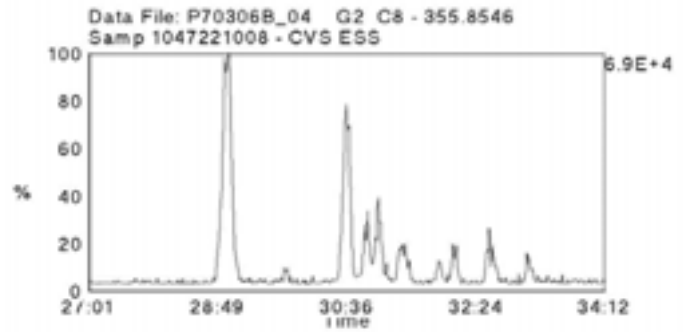
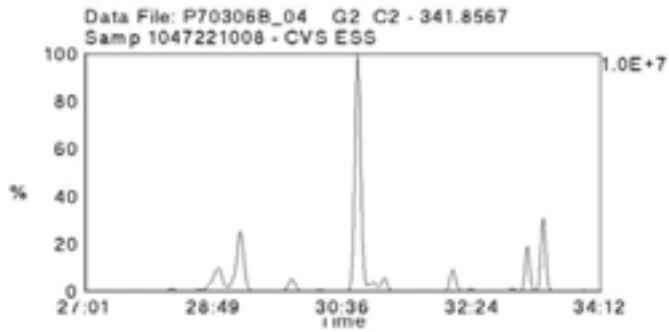
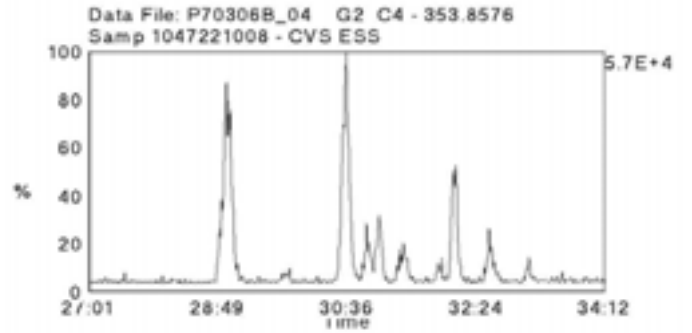
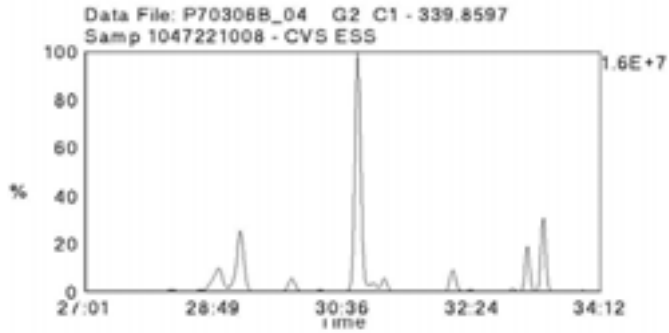
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Date Acquired: 3/7/2007  
Sample Description: Samp 1047221008 - CVS ESS

Lab Sample ID: 1047221008  
Client Sample ID: 0702344-08  
Instrument: 10MSHR09 (P)



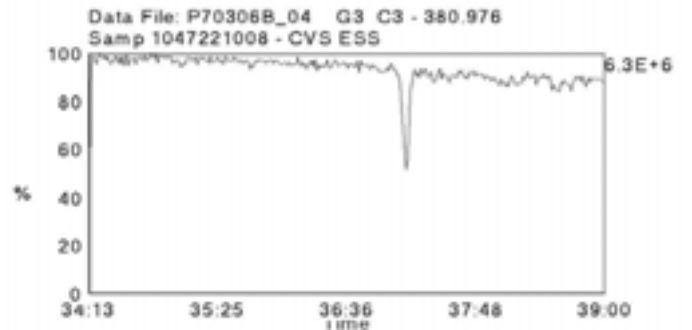
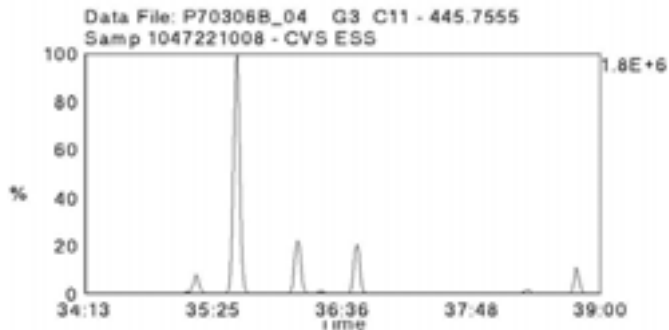
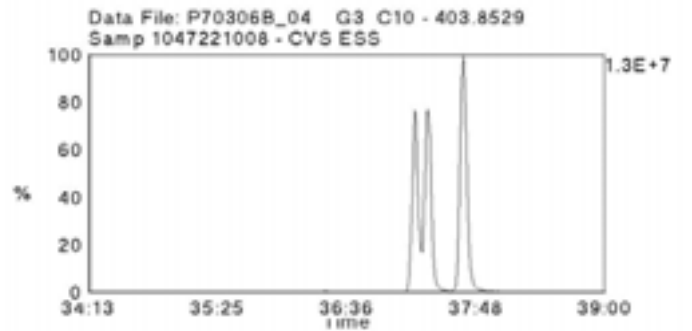
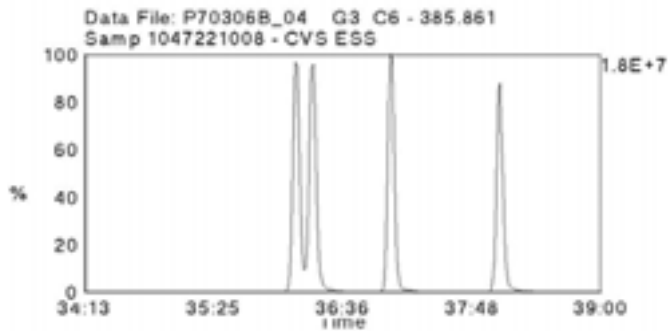
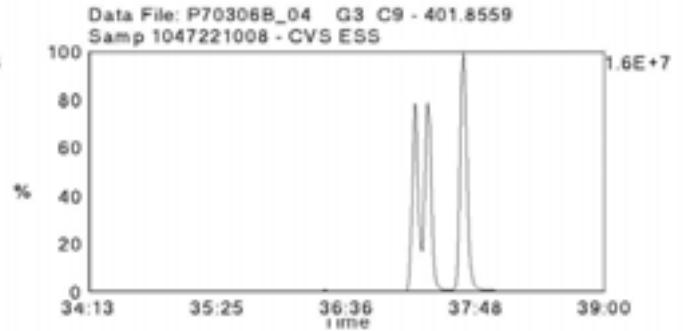
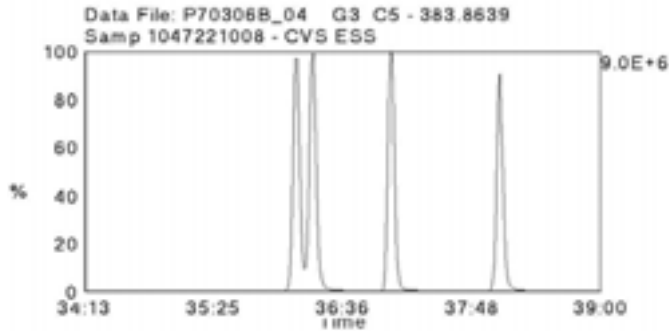
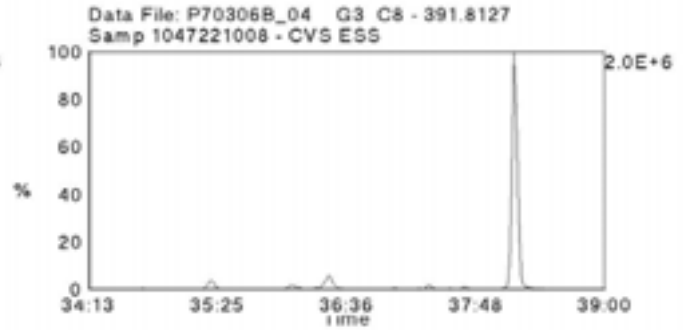
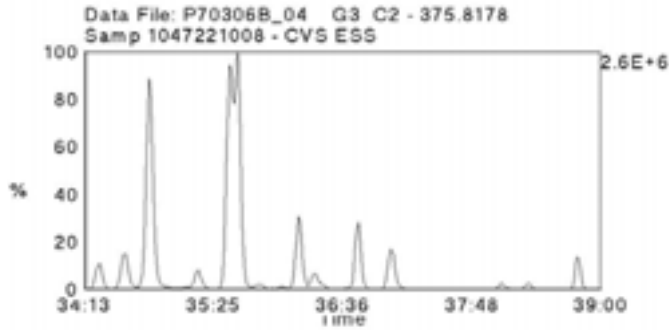
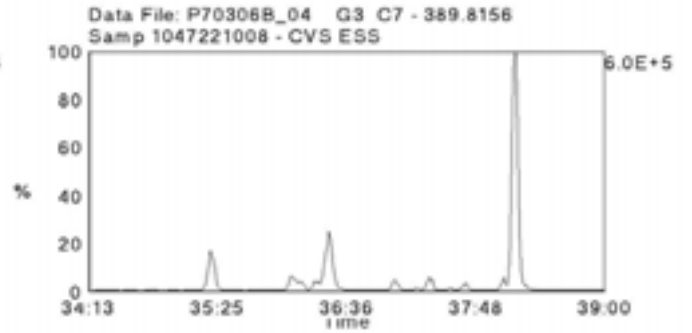
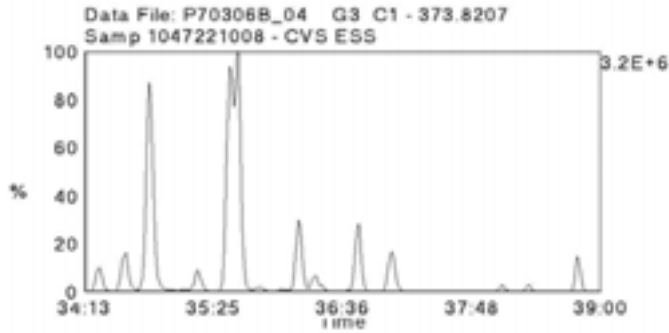
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Date Acquired: 3/7/2007  
Sample Description: Samp 1047221008 - CVS ESS

Lab Sample ID: 1047221008  
Client Sample ID: 0702344-08  
Instrument: 10MSHR09 (P)



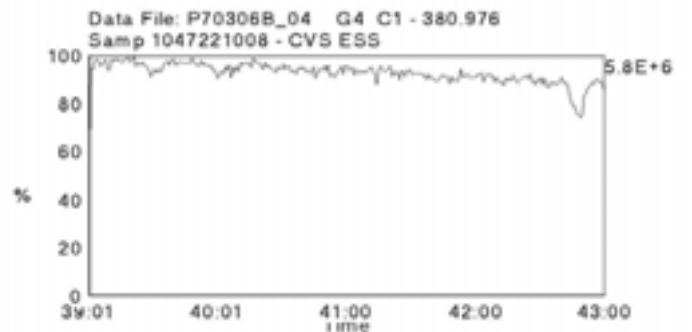
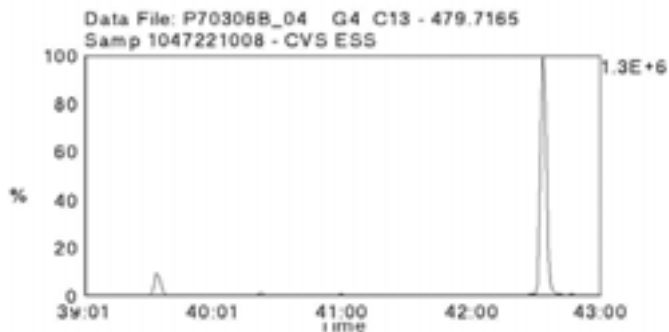
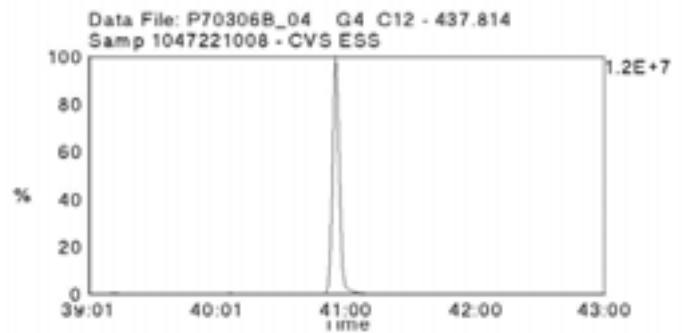
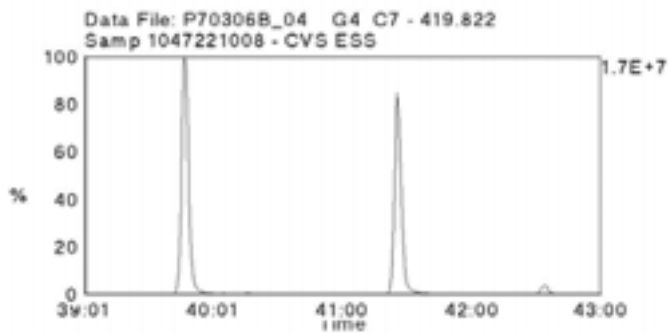
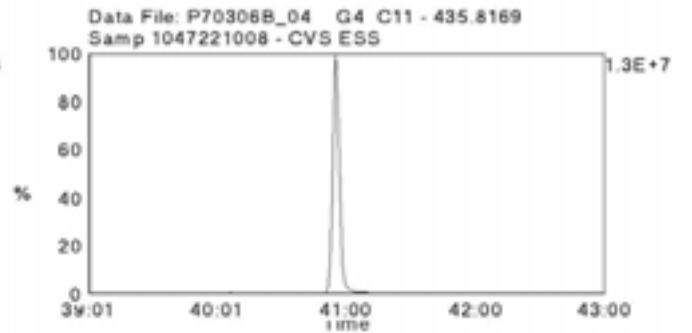
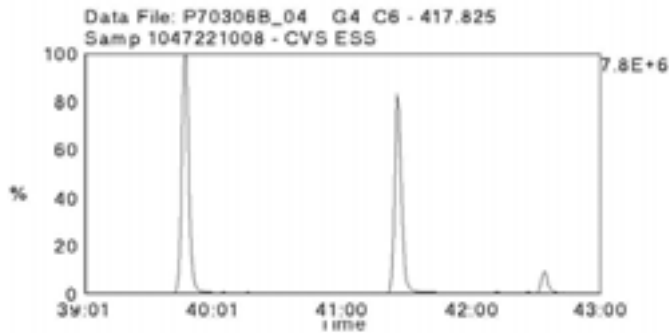
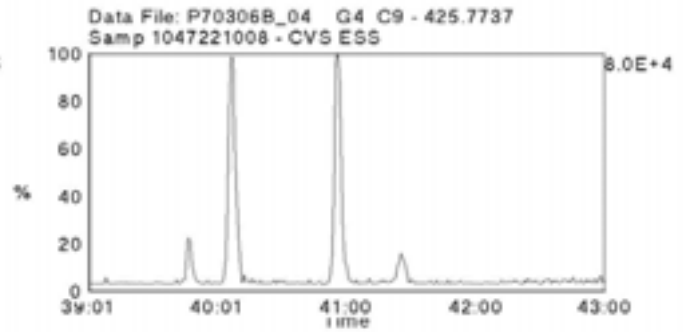
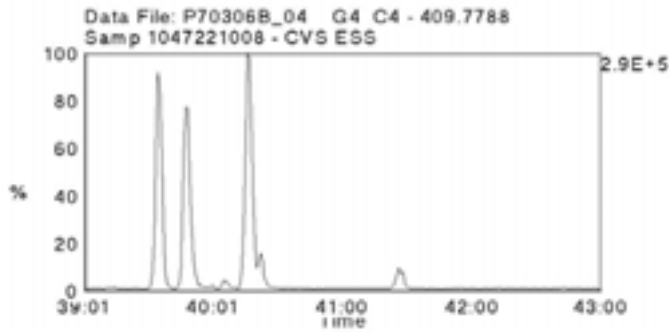
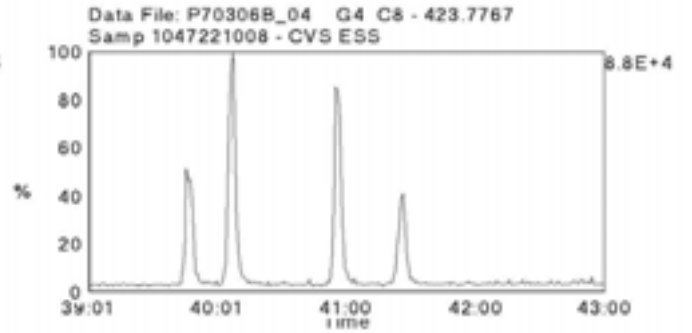
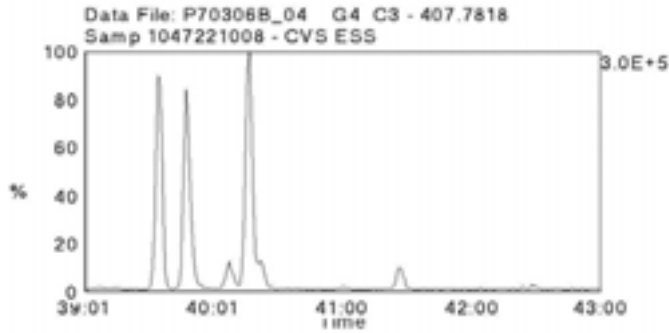
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Date Acquired: 3/7/2007  
Sample Description: Samp 1047221008 - CVS ESS

Lab Sample ID: 1047221008  
Client Sample ID: 0702344-08  
Instrument: 10MSHR09 (P)



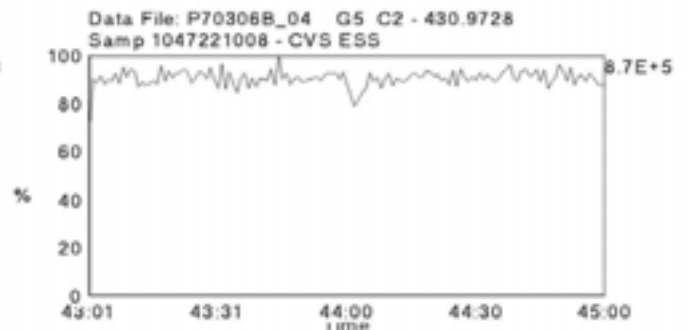
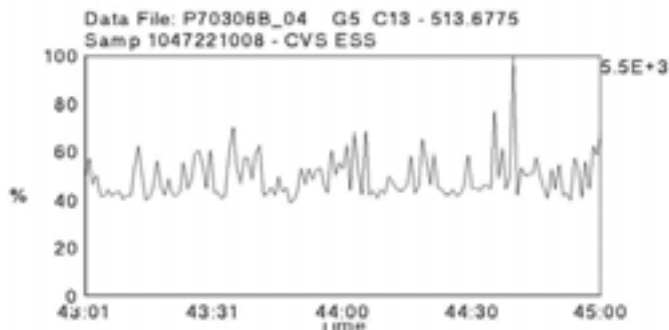
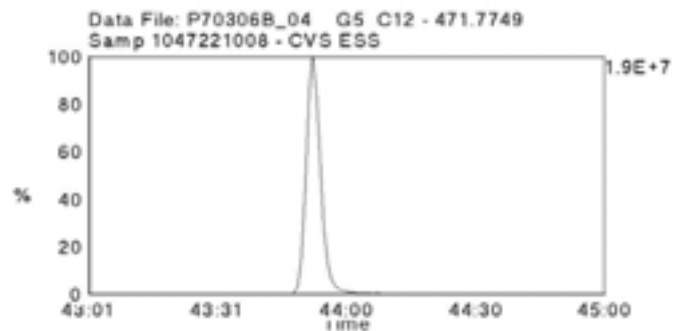
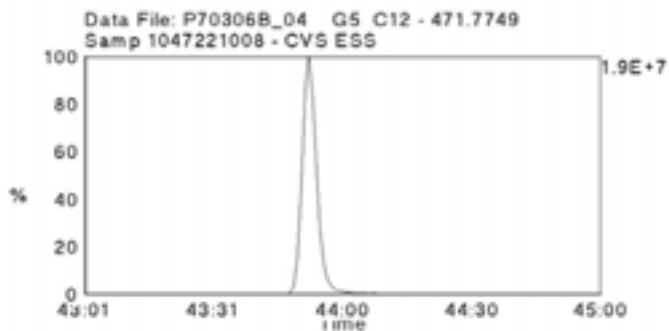
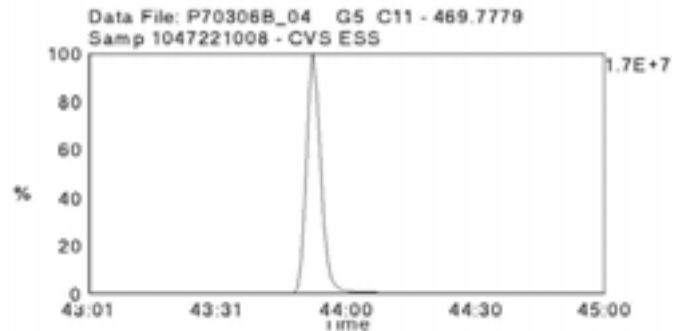
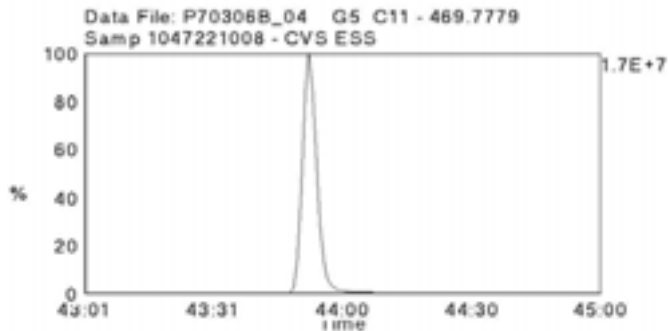
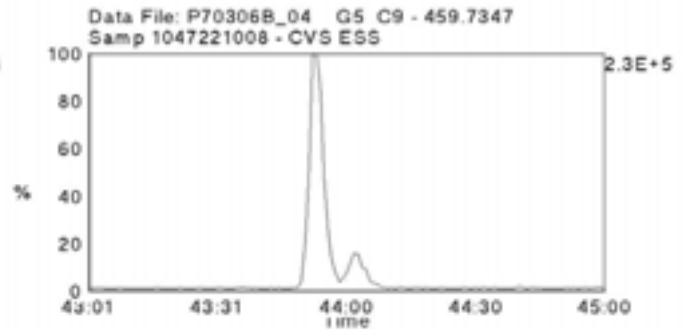
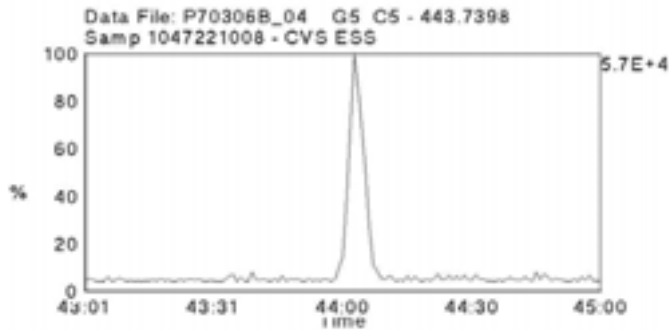
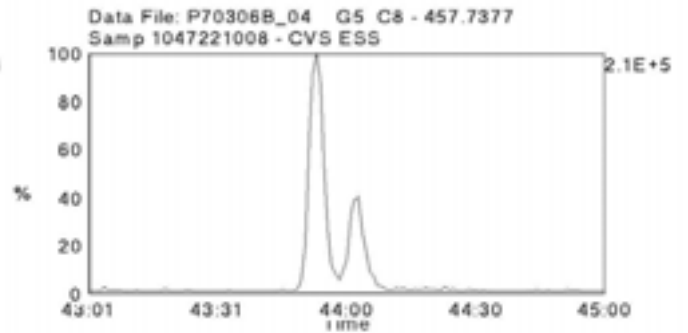
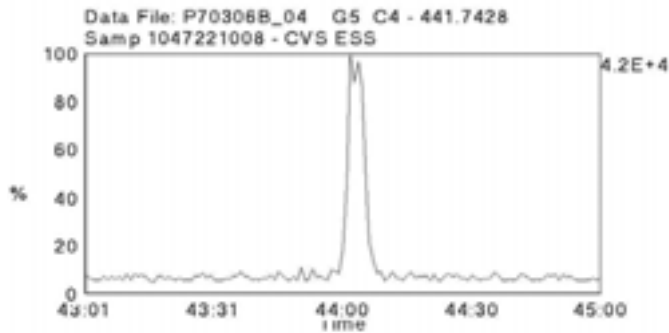
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Sample Description: Samp 1047221008 - CVS ESS

Lab Sample ID: 1047221008  
Client Sample ID: 0702344-08  
Instrument: 10MSHR09 (P)



Data File Name: P70306B\_04  
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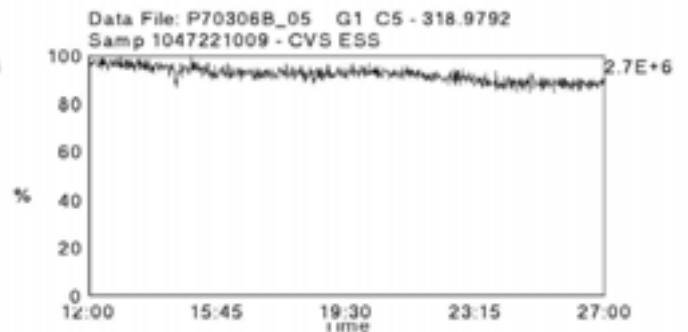
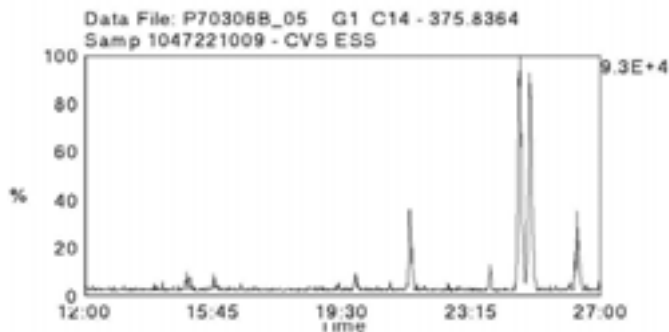
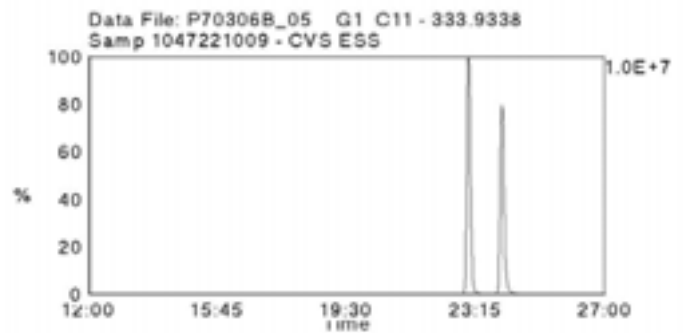
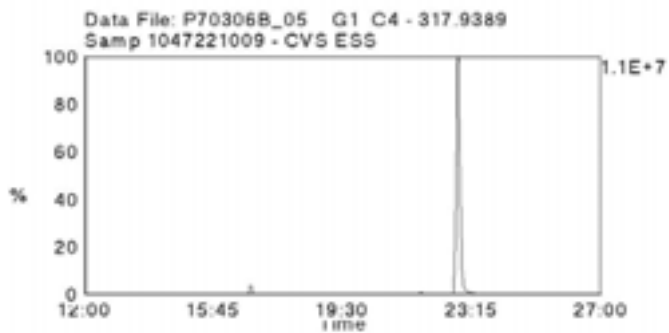
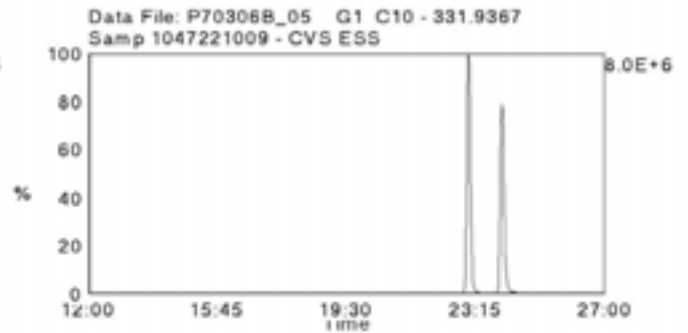
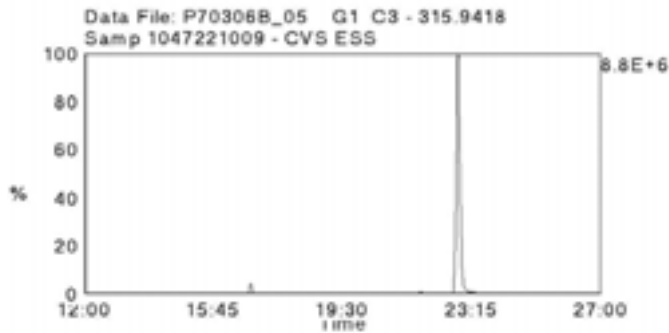
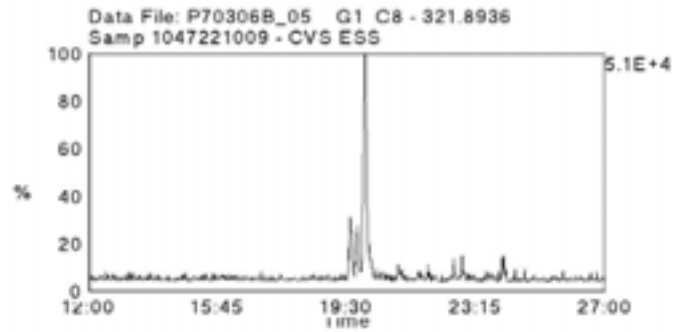
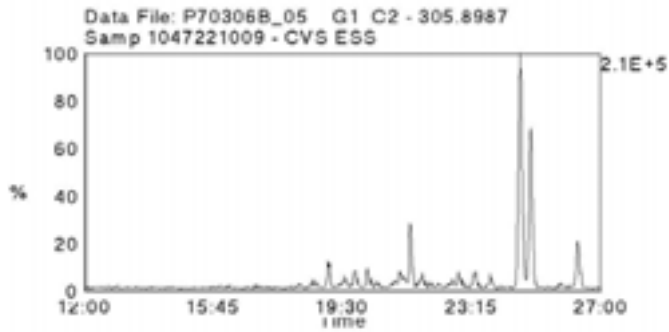
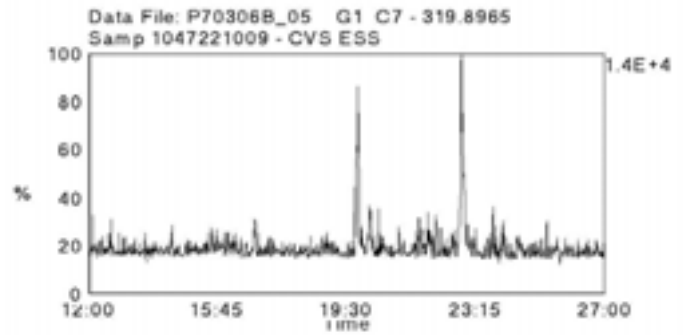
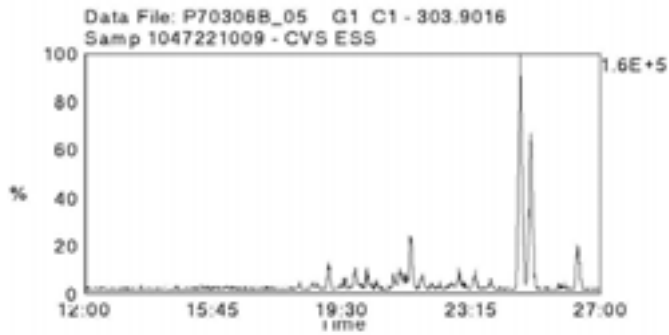
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Client Sample ID: 0702344-08  
Instrument: 10MSHR09 (P)





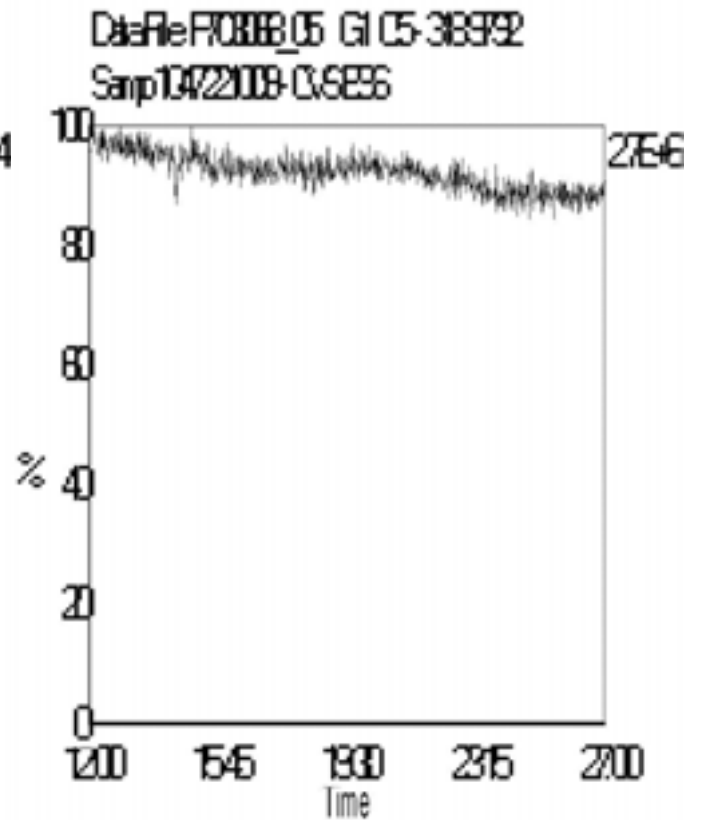
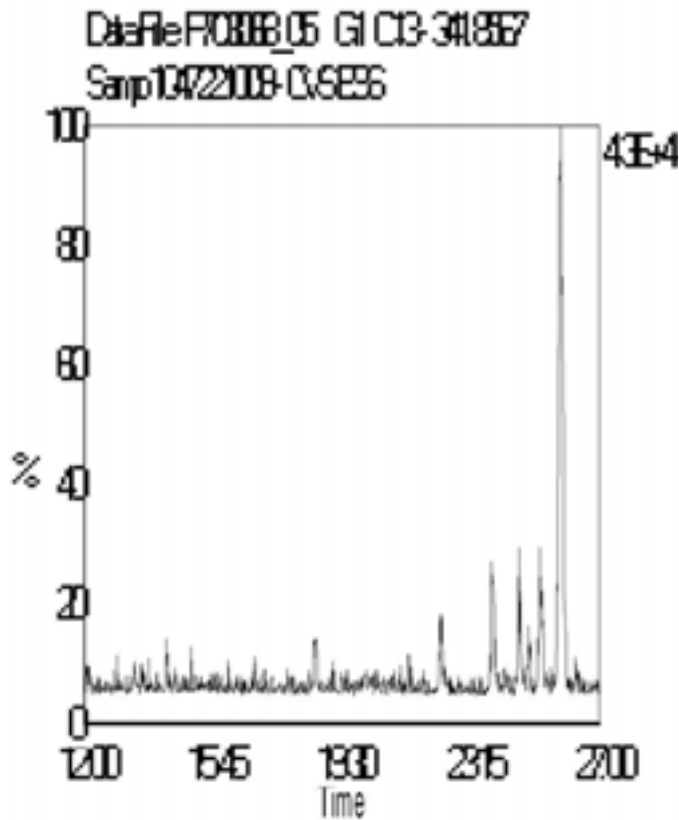
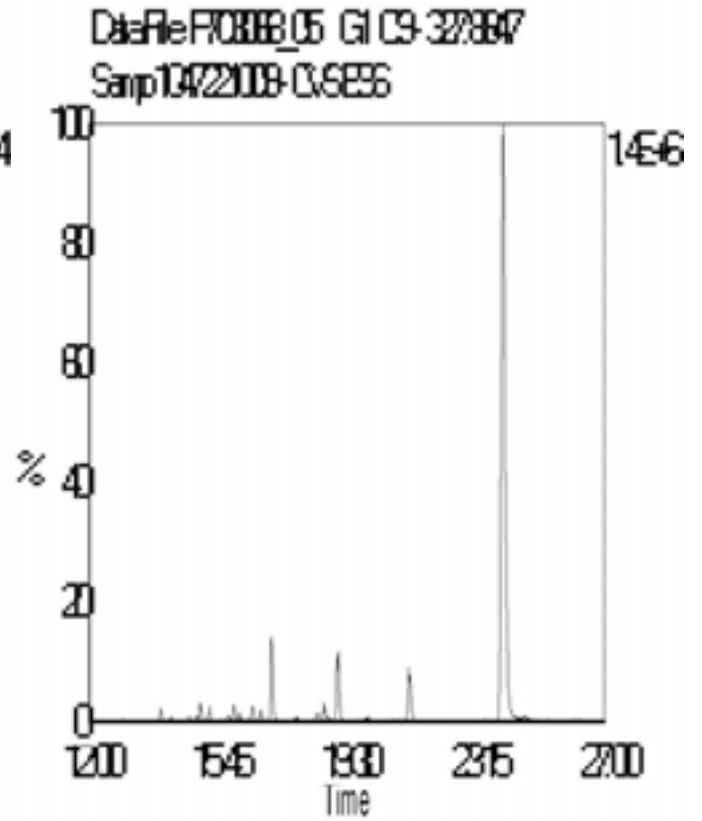
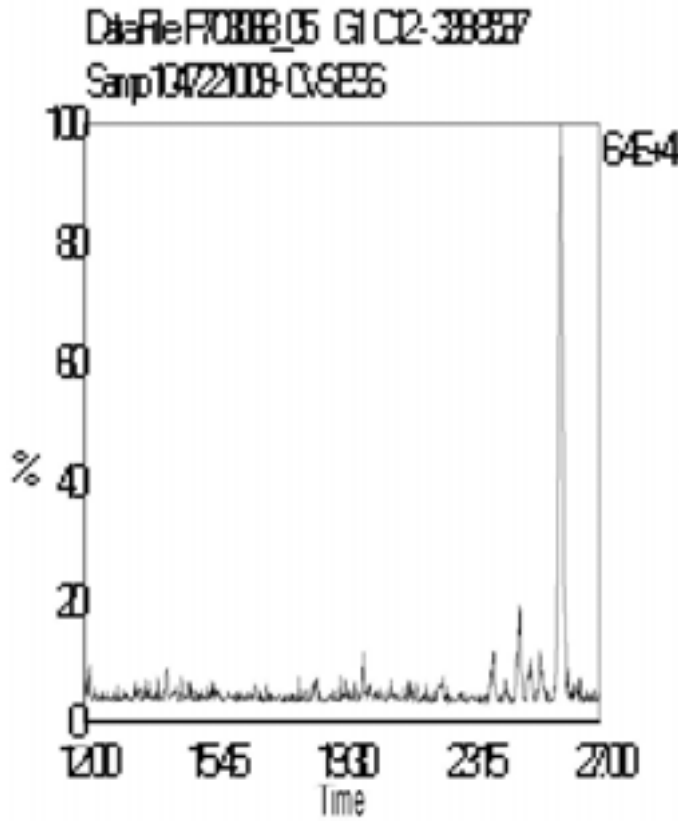
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Sample Description: Samp 1047221009 - CVS ESS

Lab Sample ID: 1047221009  
Client Sample ID: 0702344-09  
Instrument: 10MSHR09 (P)



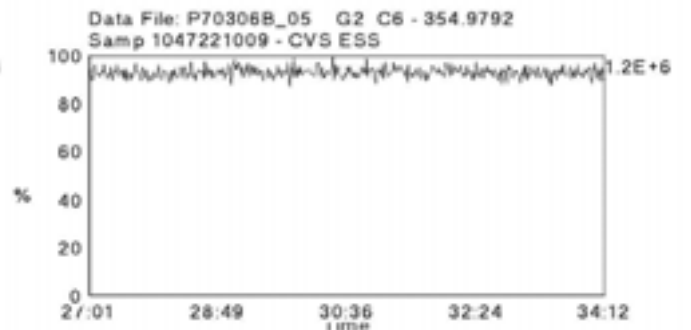
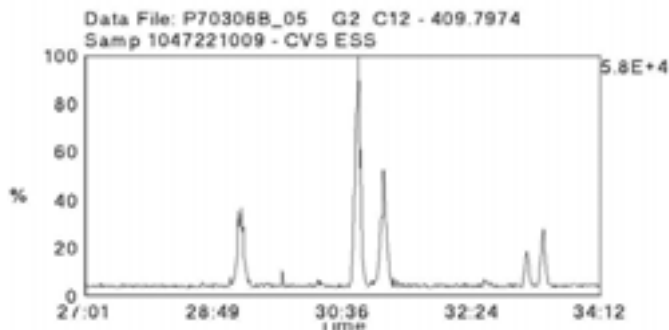
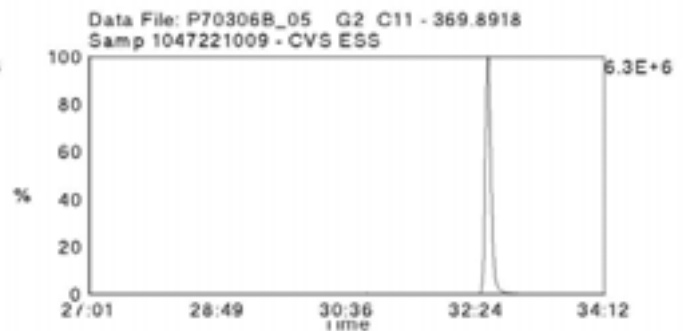
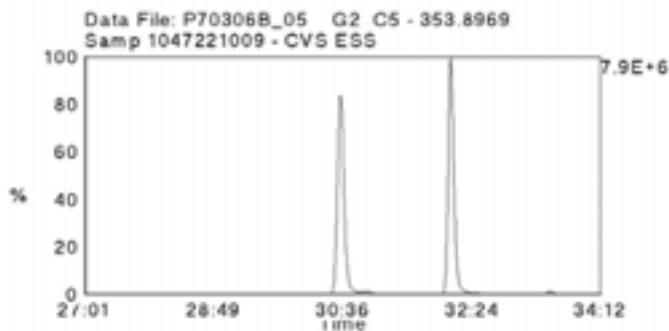
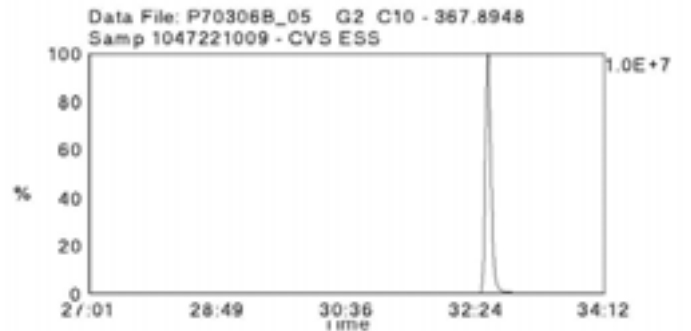
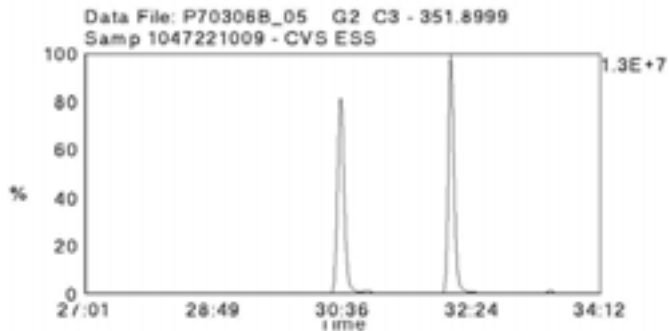
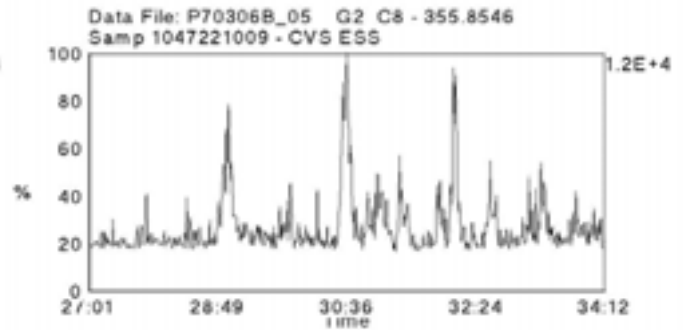
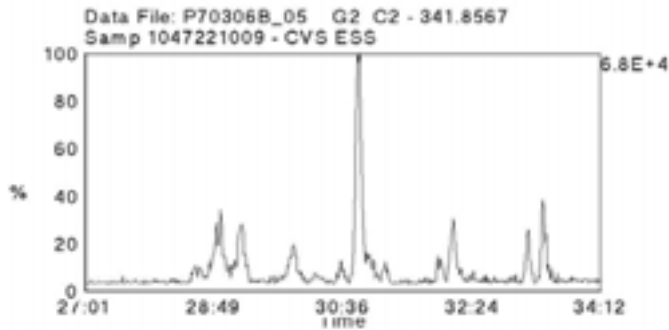
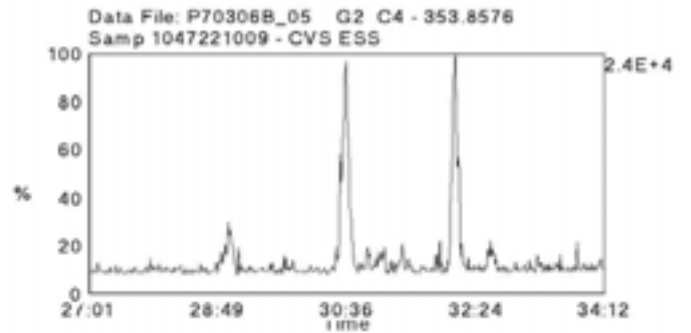
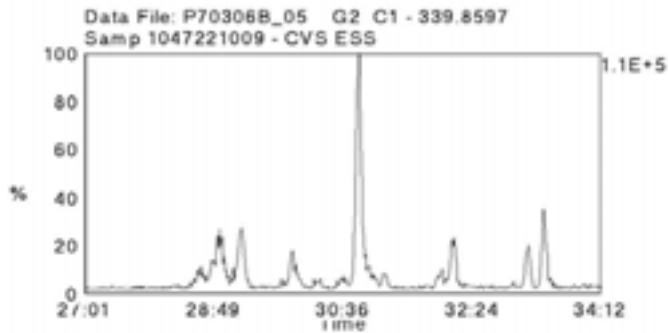
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Instrument: 10MSHR09 (P)



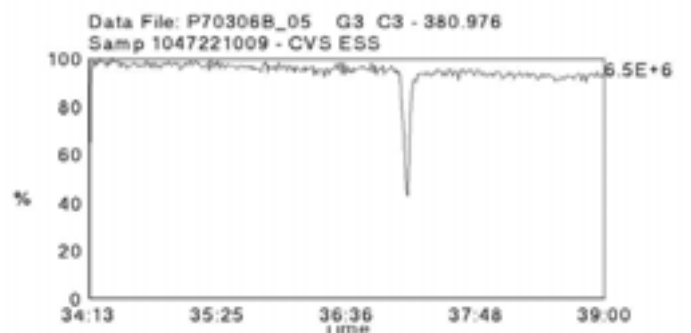
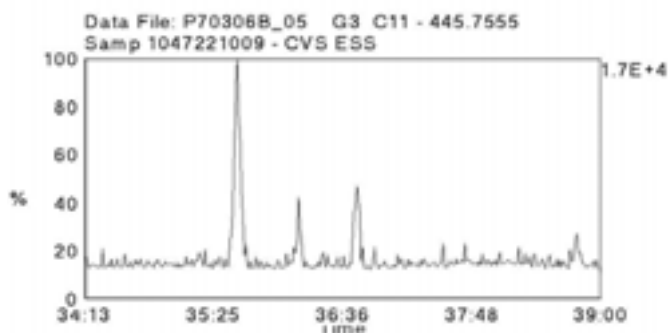
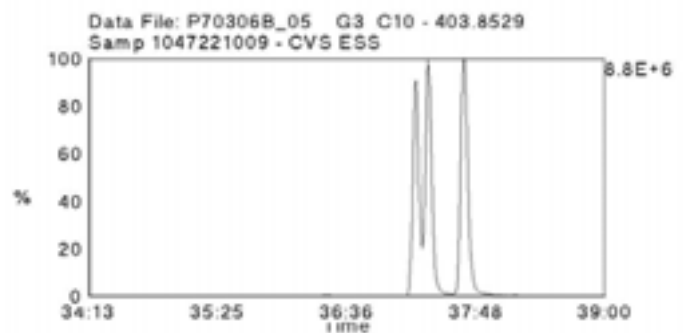
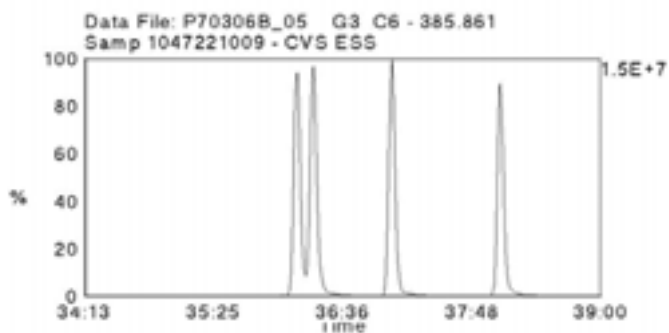
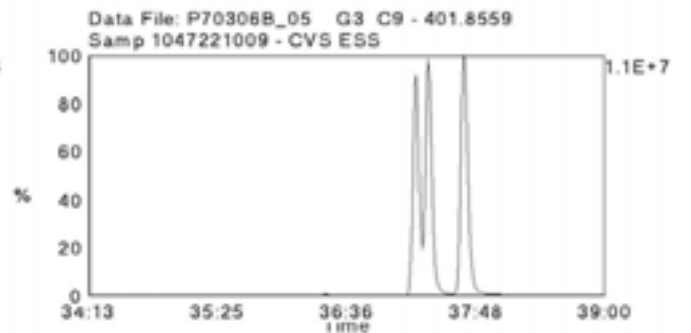
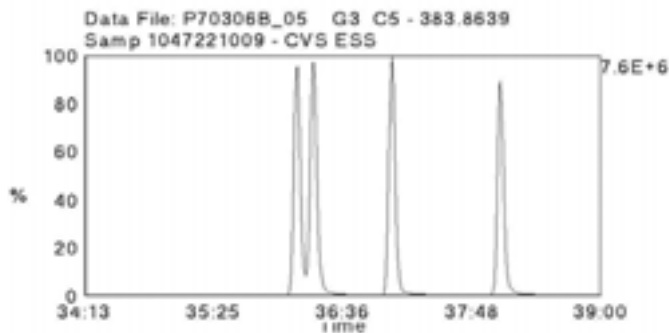
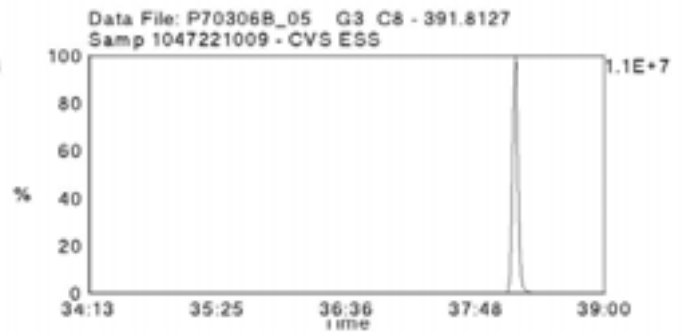
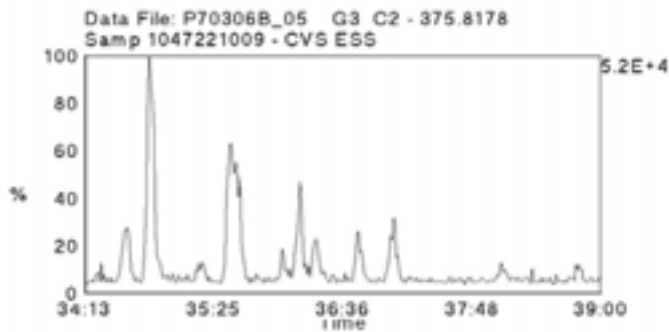
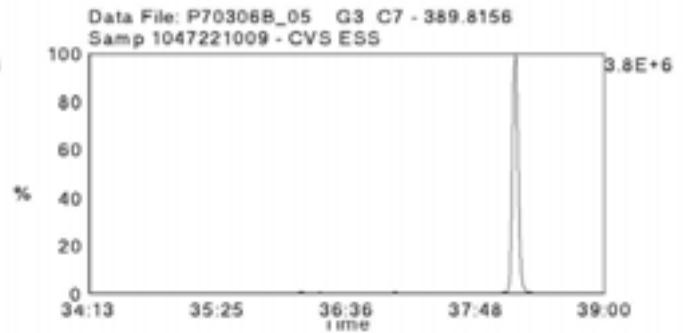
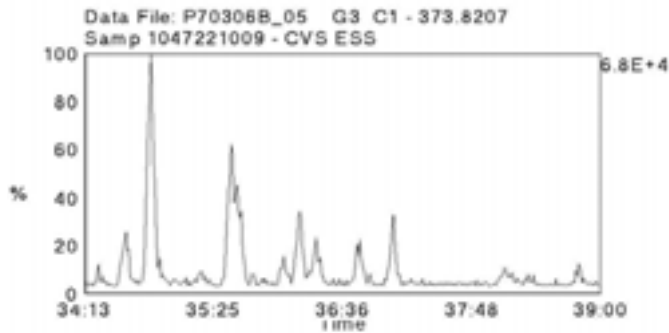
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Lab Sample ID: 1047221009  
Client Sample ID: 0702344-09  
Instrument: 10MSHR09 (P)



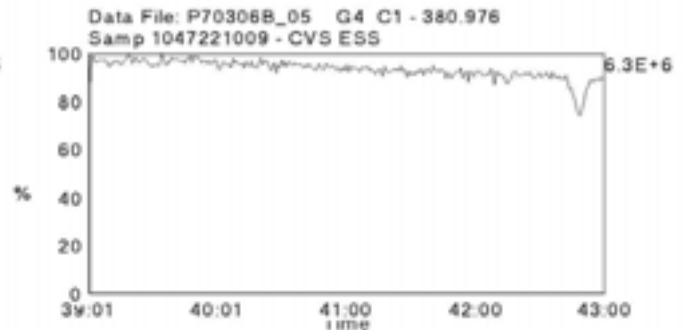
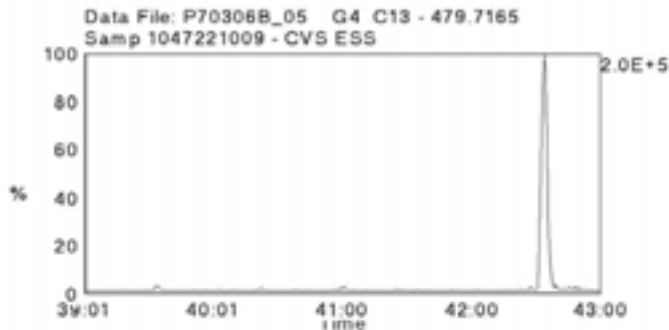
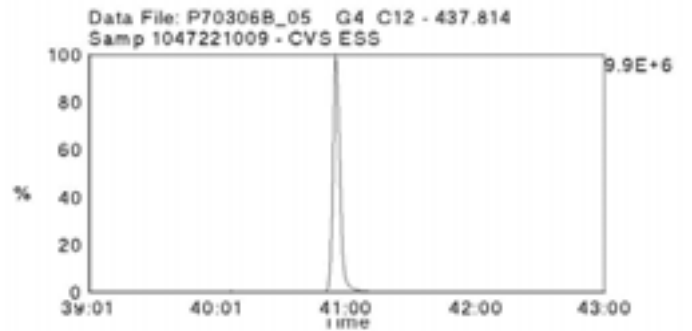
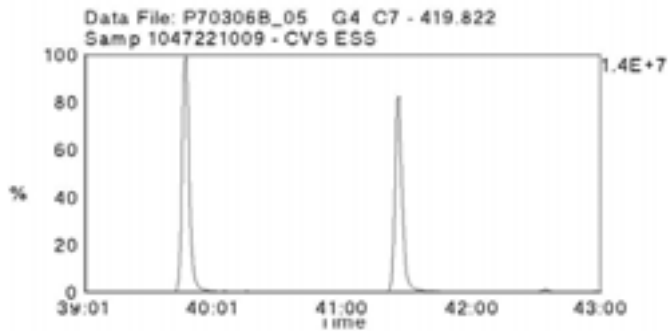
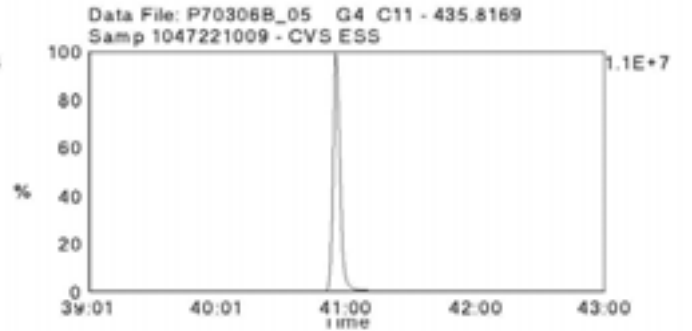
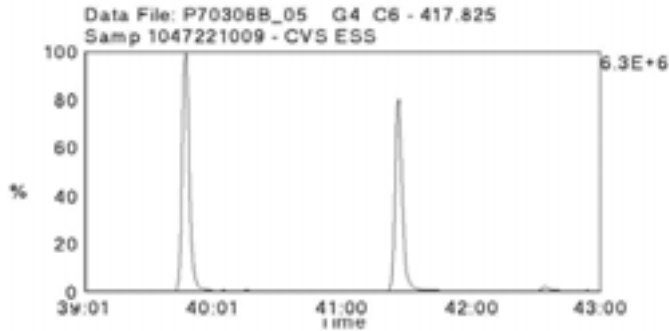
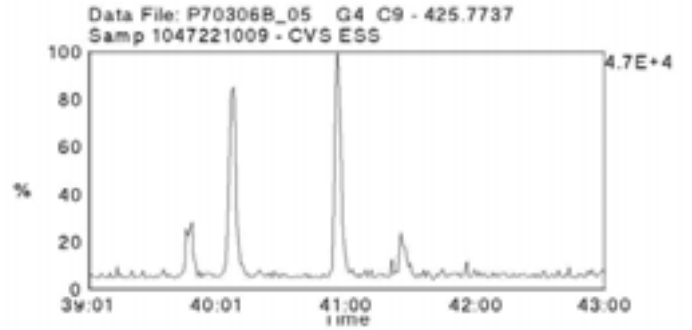
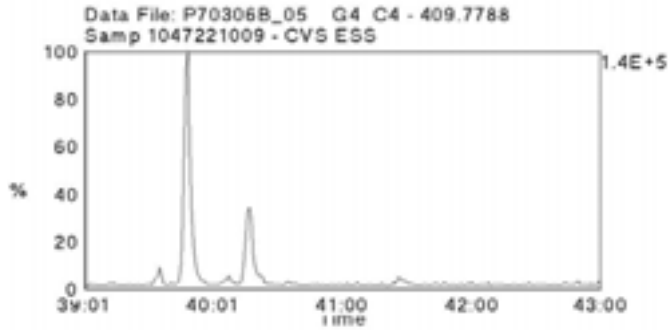
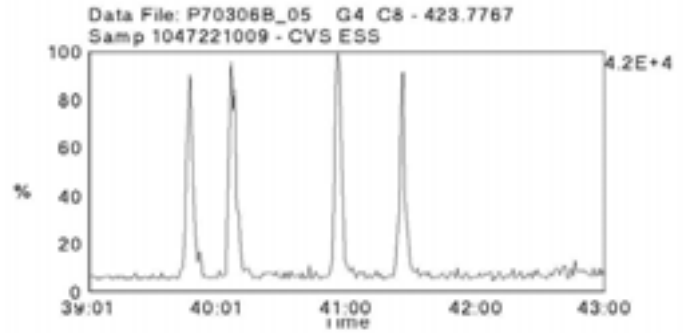
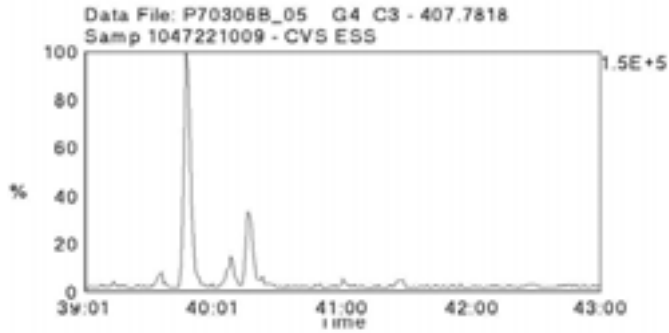
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Sample Description: Samp 1047221009 - CVS ESS

Lab Sample ID: 1047221009  
Client Sample ID: 0702344-09  
Instrument: 10MSHR09 (P)



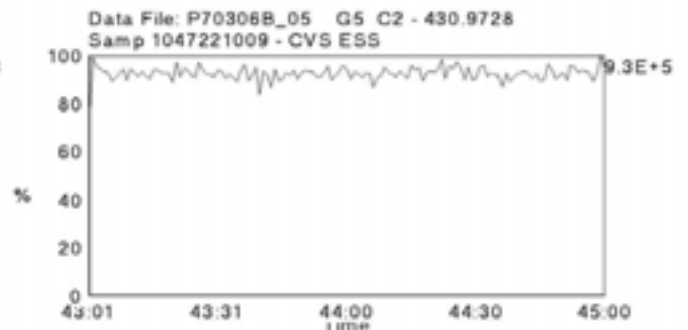
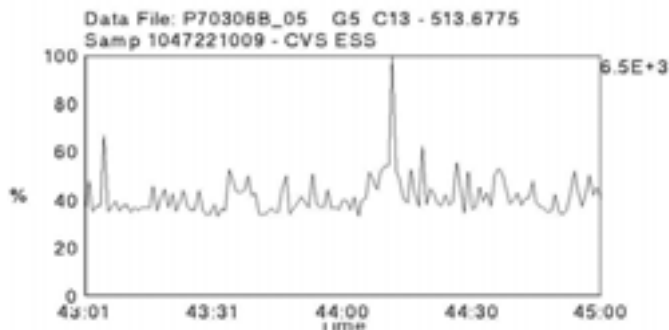
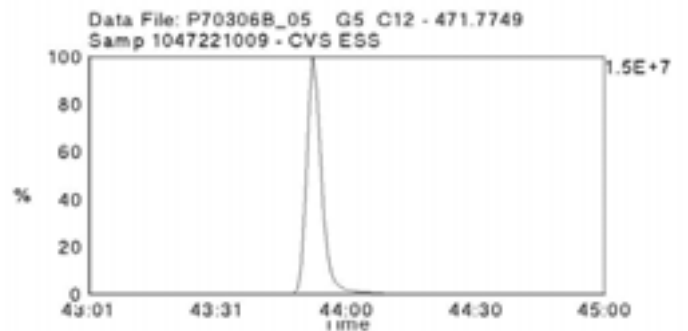
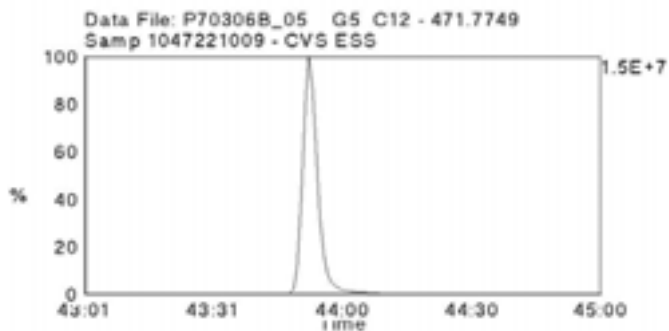
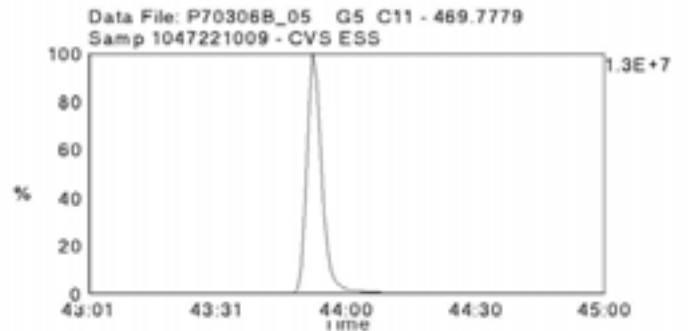
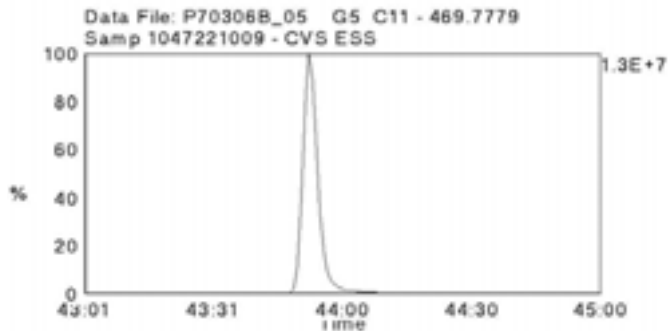
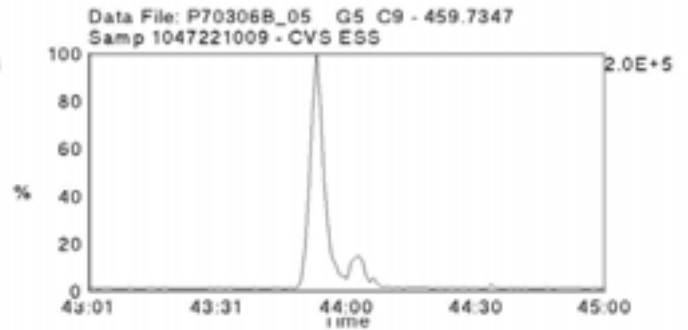
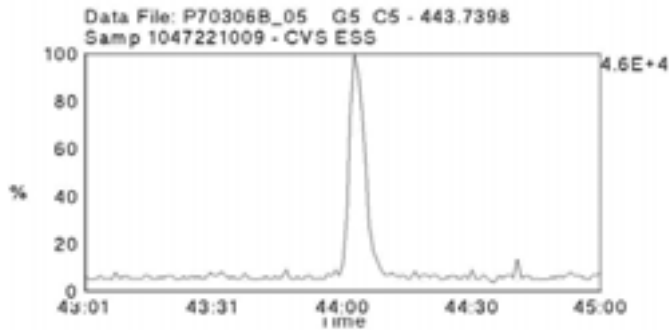
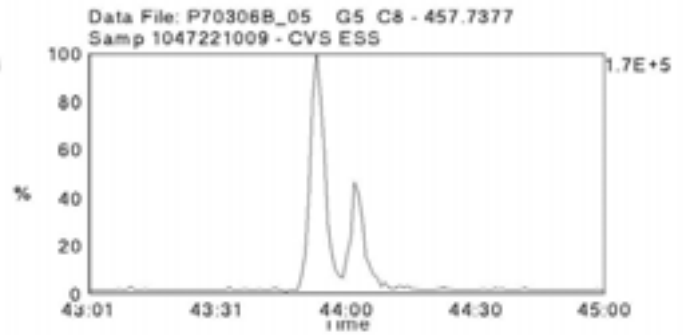
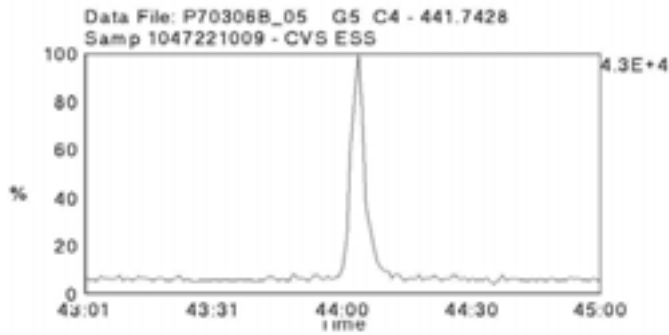
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Date Acquired: 3/7/2007  
Sample Description: Samp 1047221009 - CVS ESS

Lab Sample ID: 1047221009  
Client Sample ID: 0702344-09  
Instrument: 10MSHR09 (P)



Data File Name: P70306B\_05  
Date Acquired: 3/7/2007  
Sample Description: Samp 1047221009 - CVS ESS

Lab Sample ID: 1047221009  
Client Sample ID: 0702344-09  
Instrument: 10MSHR09 (P)





### PCDD/PCDF Detected Peak List

Prepared By \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

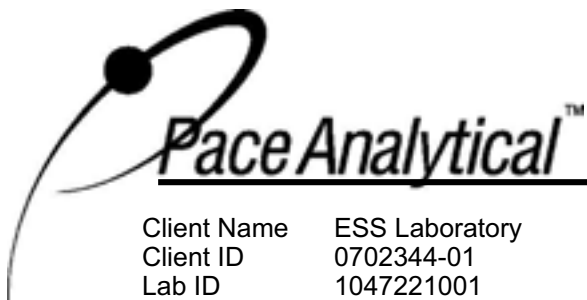
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Lab ID	1047221001	GC Column ID	US5455214H
Filename	P70306A_10	ICAL Date	02/28/2007
Analyzed	03/06/2007 20:00		

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Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		22:51	7.53e7	9.50e7	1.11e7	1.42e7	2.825e3	2.303e3	0.79	
2,3,7,8-TCDF		22:52	1.94e5	2.62e5	3.05e4	3.96e4	7.735e2	9.096e2	0.74	
Other TCDF		1 18:14	4.16e4	5.70e4					0.73	
		2 18:46	2.48e4	3.36e4					0.74	
		3 19:05	1.19e5	1.75e5					0.68	
		4 19:25	3.64e4	4.82e4					0.75	
		5 20:59	9.40e4	1.14e5					0.83	
		6 21:17	9.81e4	1.43e5					0.69	
		7 21:48	1.59e5	1.96e5					0.81	
		8 22:06	5.84e4	7.19e4					0.81	
		9 22:18	5.63e4	6.84e4					0.82	
		10 22:39	9.40e4	1.37e5					0.69	
		11 23:21	1.64e5	2.04e5					0.80	
Ethers		1 19:53	1.48e5	1.85e5					0.80	E
		2 21:28	4.91e5	6.70e5					0.73	E
		3 23:49	7.48e4	9.79e4					0.76	E
		4 24:40	1.28e6	1.66e6					0.77	E
		5 24:58	8.39e5	1.06e6					0.79	E
		6 26:21	2.60e5	3.07e5					0.85	E
Tetra-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C		23:03	7.28e7	9.20e7	1.09e7	1.39e7	3.512e3	1.216e3	0.79	
2,3,7,8-TCDD-13C		24:02	5.55e7	7.06e7	7.76e6	9.79e6	4.373e3	6.045e3	0.79	
2,3,7,8-TCDD-37Cl4		24:03	1.33e7		1.82e6		1.331e3	----		
2,3,7,8-TCDD		24:03	1.22e4	2.87e4	2.04e3	4.94e3	5.138e2	5.255e2	0.42	I
Other TCDD		1 21:36	1.56e4	2.22e4					0.70	
		2 21:52	1.65e4	2.11e4					0.78	
		3 23:04	7.84e4	9.18e4					0.85	
Penta-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C		30:36	7.32e7	4.65e7	1.20e7	7.79e6	3.175e4	2.546e3	1.58	
2,3,4,7,8-PeCDF-13C		32:08	7.49e7	4.72e7	1.40e7	8.95e6	8.693e3	6.720e3	1.59	
1,2,3,7,8-PeCDF		30:37	6.97e4	4.20e4	1.46e4	9.70e3	4.439e2	1.280e3	1.66	
2,3,4,7,8-PeCDF		32:09	1.15e5	7.08e4	2.09e4	1.53e4	5.525e2	1.018e3	1.62	
Other PeCDF		1 28:37	1.41e5	8.96e4					1.57	

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Client Name ESS Laboratory  
Client ID 0702344-01  
Lab ID 1047221001  
Filename P70306A\_10  
Analyzed 03/06/2007 20:00

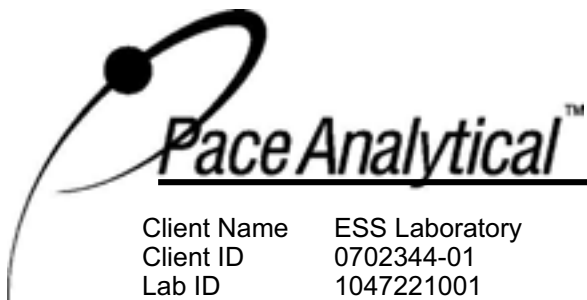
Injected By CVS  
Instrument ID 10MSHR09 (P)  
GC Column ID US5455214H  
ICAL Date 02/28/2007

	2	28:54	2.55e5	1.74e5					1.46	
	3	29:46	2.71e4	1.68e4					1.61	
	4	30:02	3.91e4	2.48e4					1.58	
	5	30:17	4.59e4	2.72e4					1.69	
	6	30:60	1.08e5	6.68e4					1.62	
	7	25:53	2.97e5	2.06e5					1.44	
Ethers	1	29:12	2.89e5	1.88e5					1.54	E
	2	30:50	9.25e5	5.54e5					1.67	E
	3	31:12	7.48e4	5.24e4					1.43	E
	4	33:12	1.09e5	7.42e4					1.47	E
	5	33:25	1.37e5	8.82e4					1.55	E
Penta-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C		32:36	5.90e7	3.76e7	1.16e7	7.39e6	1.120e4	6.319e2	1.57	
1,2,3,7,8-PeCDD		32:39	1.39e4	1.79e4	2.08e4	3.66e3	1.022e3	7.687e2	0.78	I
Other PeCDD	1	28:58	5.88e4	8.56e4					0.69	
	2	31:06	2.11e4	3.42e4					0.62	
	3	31:25	2.01e4	3.43e4					0.59	
Hexa-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C		36:13	3.11e7	6.07e7	7.88e6	1.55e7	8.606e2	1.328e3	0.51	
1,2,3,6,7,8-HxCDF-13C		36:22	3.32e7	6.52e7	7.96e6	1.55e7	7.984e2	2.937e4	0.51	
2,3,4,6,7,8-HxCDF-13C		37:05	3.15e7	6.04e7	8.26e6	1.59e7	2.645e2	8.279e2	0.52	
1,2,3,7,8,9-HxCDF-13C		38:05	2.70e7	5.23e7	6.91e6	1.31e7	4.320e3	9.913e3	0.52	
1,2,3,4,7,8-HxCDF		36:14	1.37e5	1.10e5	3.85e4	2.46e4	1.509e3	1.495e3	1.24	E
1,2,3,6,7,8-HxCDF		36:23	5.72e4	5.03e4	1.29e4	1.31e4	1.143e3	1.495e3	1.14	
2,3,4,6,7,8-HxCDF		37:06	7.01e4	5.79e4	1.91e4	1.53e4	8.678e2	1.495e3	1.21	
1,2,3,7,8,9-HxCDF		38:07	1.66e4	1.98e4	5.40e3	5.15e3	7.003e2	6.064e2	0.84	I
Other HxCDF	1	34:37	5.76e4	4.80e4					1.20	
	2	34:51	1.80e5	1.50e5					1.20	
	3	36:05	7.24e4	6.30e4					1.15	
Ethers	1	35:18	3.62e4	2.65e4					1.37	E
	2	35:39	1.98e5	1.74e5					1.14	E
	3	36:14	1.37e5	1.10e5					1.24	E
	4	36:27	1.77e4	1.66e4					1.06	E
	5	36:46	1.10e5	8.18e4					1.34	E
Hexa-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code

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Client Name ESS Laboratory  
Client ID 0702344-01  
Lab ID 1047221001  
Filename P70306A\_10  
Analyzed 03/06/2007 20:00

Injected By CVS  
Instrument ID 10MSHR09 (P)  
GC Column ID US5455214H  
ICAL Date 02/28/2007

1,2,3,4,7,8-HxCDD-13C	37:16	4.10e7	3.28e7	1.12e7	8.89e6	3.416e4	1.385e3	1.25	
1,2,3,6,7,8-HxCDD-13C	37:24	4.50e7	3.61e7	1.18e7	9.35e6	7.400e4	5.421e4	1.25	
1,2,3,7,8,9-HxCDD-13C	37:43	5.72e7	4.64e7	1.51e7	1.22e7	9.024e2	9.210e2	1.23	
1,2,3,4,7,8-HxCDD	37:18	1.49e4	1.32e4	4.29e3	4.68e3	4.802e2	5.210e2	1.13	
1,2,3,6,7,8-HxCDD	37:24	2.58e4	1.80e4	7.79e3	4.73e3	2.794e2	6.535e2	1.43	
1,2,3,7,8,9-HxCDD	37:44	1.40e4	1.84e4	4.87e3	3.61e3	6.123e2	6.625e2	0.76	I
Other HxCDD	1 35:23	6.54e4	4.64e4					1.41	
	2 36:08	7.37e4	6.82e4					1.08	
	3 36:27	8.00e4	7.04e4					1.14	
	4 37:36	1.59e4	1.24e4					1.28	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	39:49	2.38e7	5.32e7	7.07e6	1.56e7	2.051e3	1.065e4	0.45	
1,2,3,4,7,8,9-HpCDF-13C	41:27	1.86e7	4.20e7	5.50e6	1.24e7	5.805e3	3.138e3	0.44	
1,2,3,4,6,7,8-HpCDF	39:50	2.68e5	2.42e5	7.67e4	7.19e4	1.043e3	1.205e3	1.11	
1,2,3,4,7,8,9-HpCDF	41:28	2.27e4	2.02e4	7.58e3	6.78e3	1.018e3	6.205e2	1.13	
Other HpCDF	1 40:18	6.92e4	5.90e4					1.17	
Ethers	1 40:24	3.76e4	3.12e4					1.20	E

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	40:57	3.70e7	3.64e7	1.10e7	1.06e7	3.733e2	1.073e3	1.02	
1,2,3,4,6,7,8-HpCDD	40:57	2.29e5	2.07e5	6.62e4	6.33e4	8.391e2	5.398e2	1.10	
Other HpCDD	1 40:09	2.38e5	2.13e5					1.12	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:05	1.67e5	1.87e5	4.20e4	5.23e4	6.150e2	8.068e2	0.89	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:54	4.99e7	5.63e7	1.38e7	1.53e7	9.813e2	7.229e2	0.89	
OCDD	43:55	9.58e5	1.11e6	2.64e5	3.18e5	5.444e2	5.607e2	0.86	

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### PCDD/PCDF Detected Peak List

Prepared By \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client Name ESS Laboratory  
Client ID 0702344-02  
Lab ID 1047221002  
Filename P70306A\_11  
Analyzed 03/06/2007 20:48

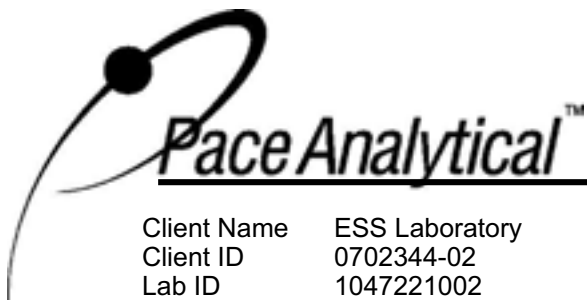
Injected By CVS  
Instrument ID 10MSHR09 (P)  
GC Column ID US5455214H  
ICAL Date 02/28/2007

Page 1

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		22:53	6.63e7	8.37e7	9.37e6	1.19e7	1.997e3	2.050e3	0.79	
2,3,7,8-TCDF		22:54	1.82e5	2.12e5	2.37e4	2.98e4	1.062e3	6.438e2	0.86	
Other TCDF		1 18:15	4.74e4	5.34e4					0.89	
		2 19:07	1.06e5	1.64e5					0.65	
		3 19:25	2.29e4	2.75e4					0.83	
		4 19:34	1.35e5	2.00e5					0.68	
		5 20:22	3.71e4	4.36e4					0.85	
		6 20:31	4.81e4	6.58e4					0.73	
		7 21:00	1.02e5	1.15e5					0.89	
		8 21:49	1.28e5	1.68e5					0.76	
		9 22:07	5.90e4	7.52e4					0.78	
		10 23:22	1.65e5	2.06e5					0.80	
Ethers		1 19:53	1.34e5	1.75e5					0.76	E
		2 21:29	3.78e5	4.81e5					0.79	E
		3 23:49	7.25e4	8.13e4					0.89	E
		4 24:42	1.26e6	1.64e6					0.77	E
		5 24:59	7.93e5	1.05e6					0.76	E
		6 26:22	2.06e5	2.56e5					0.80	E
Tetra-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C		23:04	6.04e7	7.68e7	9.00e6	1.14e7	4.041e3	1.936e3	0.79	
2,3,7,8-TCDD-13C		24:03	5.04e7	6.30e7	6.86e6	8.54e6	4.072e3	1.418e3	0.80	
2,3,7,8-TCDD-37Cl4		24:04	1.17e7		1.59e6		3.309e3	-----		
2,3,7,8-TCDD		24:03	1.56e4	3.22e4	2.47e3	5.45e3	6.311e2	7.393e2	0.48	I
Other TCDD		1 23:47	9.74e3	1.39e4					0.70	
		2 23:06	7.72e4	1.02e5					0.76	
		3 19:50	1.07e5	1.60e5					0.67	
		4 21:37	1.95e4	2.82e4					0.69	
		5 22:38	1.79e4	2.46e4					0.73	
Penta-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C		30:37	6.59e7	4.22e7	1.05e7	6.70e6	1.683e3	7.908e2	1.56	
2,3,4,7,8-PeCDF-13C		32:09	6.64e7	4.25e7	1.28e7	8.04e6	6.572e3	4.822e3	1.56	
1,2,3,7,8-PeCDF		30:38	7.34e4	4.86e4	1.23e4	7.19e3	5.583e2	4.837e2	1.51	
2,3,4,7,8-PeCDF		32:10	1.11e5	6.73e4	2.50e4	1.26e4	1.976e3	1.922e3	1.66	

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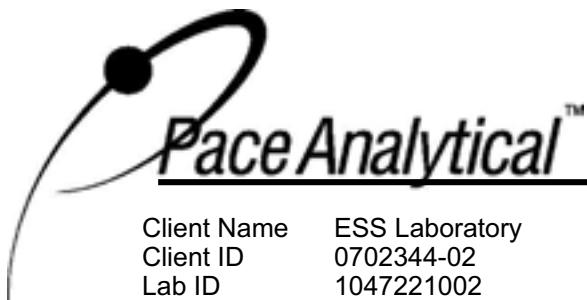
Client Name ESS Laboratory  
Client ID 0702344-02  
Lab ID 1047221002  
Filename P70306A\_11  
Analyzed 03/06/2007 20:48

Injected By CVS  
Instrument ID 10MSHR09 (P)  
GC Column ID US5455214H  
ICAL Date 02/28/2007

Other PeCDF	1	28:38	1.43e5	9.56e4						
	2	28:55	2.39e5	1.78e5						1.50
	3	29:47	3.27e4	2.40e4						1.35
	4	30:18	3.47e4	2.57e4						1.36
	5	31:01	1.49e5	9.16e4						1.35
	6	31:59	8.39e4	5.64e4						1.63
	7	32:60	1.65e4	1.08e4						1.49
	8	25:54	3.25e5	2.05e5						1.53
										1.58
Ethers	1	29:13	3.26e5	2.02e5						1.62 E
	2	30:51	8.69e5	5.46e5						1.59 E
	3	31:13	7.00e4	4.21e4						1.66 E
	4	33:12	9.84e4	7.43e4						1.33 E
	5	33:26	1.36e5	8.63e4						1.57 E
Penta-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C		32:37	5.22e7	3.37e7	1.03e7	6.64e6	1.079e3	1.259e3	1.55	
1,2,3,7,8-PeCDD		32:39	1.69e4	3.05e4	2.35e4	4.05e3	4.756e2	8.078e2	0.55	
Other PeCDD	1	31:26	1.82e4	2.85e4						0.64
	2	31:56	1.58e4	2.72e4						0.58
Hexa-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C		36:13	2.68e7	5.20e7	6.71e6	1.29e7	8.373e3	1.762e4	0.52	
1,2,3,6,7,8-HxCDF-13C		36:22	2.89e7	5.58e7	6.82e6	1.30e7	1.138e3	1.747e4	0.52	
2,3,4,6,7,8-HxCDF-13C		37:06	2.61e7	4.94e7	6.78e6	1.30e7	4.553e2	1.016e3	0.53	
1,2,3,7,8,9-HxCDF-13C		38:06	2.33e7	4.46e7	6.17e6	1.19e7	8.775e3	1.093e4	0.52	
1,2,3,4,7,8-HxCDF		36:14	1.36e5	9.85e4	3.85e4	2.75e4	1.095e3	8.239e2	1.38	E
1,2,3,6,7,8-HxCDF		36:23	6.47e4	5.70e4	1.27e4	1.40e4	1.468e3	8.212e2	1.13	
2,3,4,6,7,8-HxCDF		37:06	7.21e4	5.32e4	1.57e4	1.13e4	9.133e2	8.212e2	1.36	
1,2,3,7,8,9-HxCDF		38:07	1.61e4	1.24e4	5.17e3	4.43e3	6.244e2	4.430e2	1.30	
Other HxCDF	1	34:38	5.61e4	4.31e4						1.30
	2	34:52	1.73e5	1.43e5						1.21
	3	36:05	6.89e4	5.31e4						1.30
Ethers	1	35:18	5.11e4	4.03e4						1.27 E
	2	35:39	2.39e5	1.97e5						1.21 E
	3	36:14	1.36e5	9.85e4						1.38 E
	4	36:46	1.10e5	8.68e4						1.27 E
Hexa-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code

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Client Name ESS Laboratory  
Client ID 0702344-02  
Lab ID 1047221002  
Filename P70306A\_11  
Analyzed 03/06/2007 20:48

Injected By CVS  
Instrument ID 10MSHR09 (P)  
GC Column ID US5455214H  
ICAL Date 02/28/2007

1,2,3,4,7,8-HxCDD-13C	37:17	3.43e7	2.76e7	9.62e6	7.66e6	6.220e3	5.189e3	1.24	
1,2,3,6,7,8-HxCDD-13C	37:24	3.90e7	3.13e7	9.57e6	7.94e6	6.446e3	2.530e4	1.25	
1,2,3,7,8,9-HxCDD-13C	37:44	4.67e7	3.77e7	1.17e7	9.25e6	2.033e3	6.241e2	1.24	
1,2,3,4,7,8-HxCDD	37:18	1.23e4	8.86e3	2.88e3	1.43e3	4.549e2	1.436e3	1.39	
1,2,3,6,7,8-HxCDD	37:24	3.02e4	2.02e4	7.71e3	2.81e3	2.678e2	1.436e3	1.50	I
1,2,3,7,8,9-HxCDD	37:44	1.95e4	2.07e4	4.98e3	4.68e3	4.880e2	9.550e2	0.94	I
Other HxCDD	1	35:24	7.19e4	5.48e4				1.31	
	2	36:08	1.12e5	9.08e4				1.23	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	39:49	2.00e7	4.43e7	5.81e6	1.28e7	3.080e3	3.684e3	0.45	
1,2,3,4,7,8,9-HpCDF-13C	41:28	1.57e7	3.50e7	4.56e6	1.03e7	7.807e2	8.052e2	0.45	
1,2,3,4,6,7,8-HpCDF	39:50	2.52e5	2.58e5	7.06e4	8.16e4	1.676e3	8.142e2	0.98	
1,2,3,4,7,8,9-HpCDF	41:29	2.48e4	2.46e4	7.98e3	7.36e3	1.018e3	6.142e2	1.01	

Ethers	1	40:24	4.27e4	3.60e4				1.19	E
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Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	40:57	3.16e7	3.00e7	9.84e6	9.34e6	1.283e3	5.599e2	1.05	
1,2,3,4,6,7,8-HpCDD	40:58	2.40e5	2.15e5	8.09e4	6.82e4	3.876e2	6.186e2	1.11	
Other HpCDD	1	40:09	2.48e5	2.20e5				1.13	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:05	1.51e5	1.59e5	3.81e4	3.85e4	7.913e2	1.245e3	0.95	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:55	4.12e7	4.59e7	1.17e7	1.30e7	1.155e3	4.299e2	0.90	
OCDD	43:56	9.87e5	1.12e6	2.68e5	3.11e5	9.921e2	8.344e2	0.88	

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**PCDD/PCDF Detected Peak List**

Prepared By \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

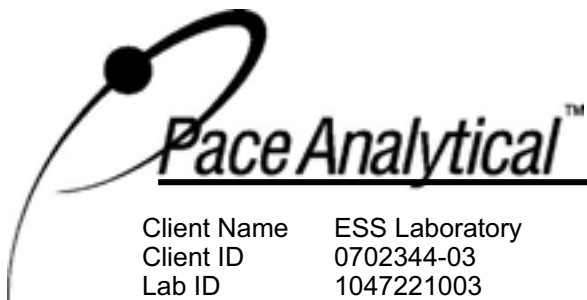
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Client ID 0702344-03  
Lab ID 1047221003  
Filename P70306A\_12  
Analyzed 03/06/2007 21:36

Injected By CVS  
Instrument ID 10MSHR09 (P)  
GC Column ID US5455214H  
ICAL Date 02/28/2007

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		22:52	9.55e7	1.20e8	1.38e7	1.75e7	1.949e3	2.702e3	0.79	
2,3,7,8-TCDF		22:54	8.51e4	9.18e4	1.27e4	1.45e4	1.173e3	1.390e3	0.93	I
Other TCDF		1 19:07	5.05e4	5.98e4					0.85	
		2 19:34	3.14e4	4.79e4					0.66	
		3 21:15	6.74e4	7.84e4					0.86	
		4 21:50	6.32e4	8.09e4					0.78	
		5 23:22	3.74e4	4.81e4					0.78	
Ethers		1 19:53	7.05e4	8.69e4					0.81	E
		2 21:30	2.45e5	3.00e5					0.82	E
		3 23:50	3.89e4	4.59e4					0.85	E
		4 24:42	1.18e6	1.52e6					0.78	E
		5 24:59	6.40e5	8.90e5					0.72	E
		6 26:23	1.42e5	1.83e5					0.78	E
Tetra-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C		23:04	8.19e7	1.03e8	1.22e7	1.53e7	4.145e3	3.057e3	0.79	
2,3,7,8-TCDD-13C		24:03	7.24e7	9.07e7	9.99e6	1.26e7	6.448e3	3.602e3	0.80	
2,3,7,8-TCDD-37Cl4		24:04	1.73e7		2.34e6		1.418e3	----		
2,3,7,8-TCDD		24:05	ND	ND	ND	ND	6.885e2	6.806e2		
Other TCDD		1 19:51	3.09e4	3.80e4					0.81	
Penta-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C		30:37	9.69e7	6.22e7	1.60e7	1.00e7	4.255e3	1.534e3	1.56	
2,3,4,7,8-PeCDF-13C		32:09	9.86e7	6.29e7	1.89e7	1.18e7	5.615e3	1.367e4	1.57	
1,2,3,7,8-PeCDF		30:39	1.93e4	1.18e4	5.33e3	2.43e3	1.275e3	9.166e2	1.64	
2,3,4,7,8-PeCDF		32:10	5.44e4	3.41e4	1.26e4	1.01e4	6.097e2	9.913e2	1.60	
Other PeCDF		1 28:54	8.59e4	5.73e4					1.50	
		2 29:56	2.96e4	1.80e4					1.64	
		3 30:19	2.00e4	1.26e4					1.58	
		4 25:55	1.30e5	8.74e4					1.49	
Ethers		1 29:13	2.06e5	1.45e5					1.42	E
		2 30:52	7.06e5	4.50e5					1.57	E
		3 33:13	1.08e5	6.82e4					1.59	E

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Client Name	ESS Laboratory	Injected By	CVS
Client ID	0702344-03	Instrument ID	10MSHR09 (P)
Lab ID	1047221003	GC Column ID	US5455214H
Filename	P70306A_12	ICAL Date	02/28/2007
Analyzed	03/06/2007 21:36		

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:37	7.73e7	4.92e7	1.49e7	9.61e6	6.072e2	1.429e3	1.57	
1,2,3,7,8-PeCDD	32:40	ND	ND	ND	ND	7.833e2	1.103e3		
Other PeCDD	1 29:00	2.47e4	4.39e4					0.56	

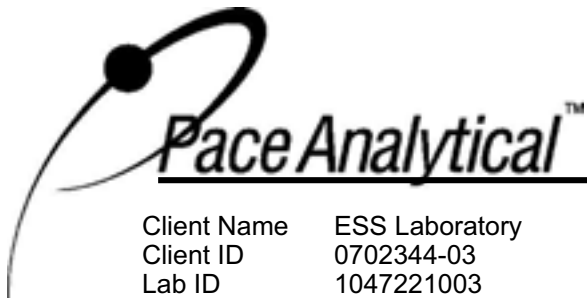
Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:14	3.95e7	7.58e7	9.88e6	1.90e7	1.991e4	3.901e4	0.52	
1,2,3,6,7,8-HxCDF-13C	36:23	4.16e7	8.02e7	1.02e7	1.95e7	2.120e3	3.227e4	0.52	
2,3,4,6,7,8-HxCDF-13C	37:06	3.75e7	7.27e7	9.73e6	1.85e7	1.009e3	2.340e3	0.52	
1,2,3,7,8,9-HxCDF-13C	38:07	3.35e7	6.42e7	8.89e6	1.70e7	1.168e4	8.813e3	0.52	
1,2,3,4,7,8-HxCDF	36:14	8.65e4	7.44e4	2.26e4	1.74e4	1.372e3	1.118e3	1.16	E
1,2,3,6,7,8-HxCDF	36:24	2.95e4	2.41e4	7.43e3	4.63e3	1.259e3	1.134e3	1.22	
2,3,4,6,7,8-HxCDF	37:07	3.03e4	2.12e4	6.19e3	6.00e3	9.807e2	1.103e3	1.43	
1,2,3,7,8,9-HxCDF	38:08	1.37e4	8.61e3	3.09e3	1.89e3	6.476e2	5.801e2	1.60	I
Other HxCDF	1 34:22	1.01e4	8.93e3					1.14	
	2 34:39	2.20e4	1.81e4					1.21	
	3 34:52	7.02e4	5.94e4					1.18	
	4 36:05	2.18e4	1.74e4					1.25	
Ethers	1 36:14	8.65e4	7.44e4					1.16	E
	2 35:18	1.94e4	1.83e4					1.06	E

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:17	5.05e7	4.03e7	1.37e7	1.06e7	9.819e3	8.555e3	1.25	
1,2,3,6,7,8-HxCDD-13C	37:24	5.51e7	4.40e7	1.42e7	1.13e7	1.072e4	8.912e3	1.25	
1,2,3,7,8,9-HxCDD-13C	37:44	6.21e7	5.06e7	1.61e7	1.32e7	1.169e3	6.403e2	1.23	
1,2,3,4,7,8-HxCDD	37:18	ND	ND	ND	ND	1.060e3	9.459e2		
1,2,3,6,7,8-HxCDD	37:25	9.88e3	8.91e3	2.11e3	2.83e3	1.440e3	7.218e2	1.11	
1,2,3,7,8,9-HxCDD	37:46	ND	ND	ND	ND	1.213e3	5.542e2		
Other HxCDD	1 35:24	2.28e4	1.85e4					1.23	
	2 36:27	3.35e4	2.39e4					1.40	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	39:50	2.80e7	6.07e7	7.92e6	1.74e7	8.528e2	8.485e2	0.46	
1,2,3,4,7,8,9-HpCDF-13C	41:29	2.14e7	4.74e7	6.45e6	1.39e7	1.649e3	5.221e3	0.45	
1,2,3,4,6,7,8-HpCDF	39:51	8.41e4	8.58e4	2.15e4	2.25e4	1.130e3	1.029e3	0.98	

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Client Name	ESS Laboratory	Injected By	CVS
Client ID	0702344-03	Instrument ID	10MSHR09 (P)
Lab ID	1047221003	GC Column ID	US5455214H
Filename	P70306A_12	ICAL Date	02/28/2007
Analyzed	03/06/2007 21:36		

1,2,3,4,7,8,9-HpCDF	41:29	1.64e4	1.80e4	5.55e3	6.09e3	7.565e2	6.800e2	0.91	
Other HpCDF	1 40:18	2.73e4	2.76e4					0.99	
Ethers	1 40:24	1.64e4	1.36e4					1.20	E
Hepta-Dioxins:									
	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	40:57	4.32e7	4.10e7	1.26e7	1.20e7	1.077e3	1.254e3	1.05	
1,2,3,4,6,7,8-HpCDD	40:58	5.86e4	6.55e4	1.69e4	1.84e4	1.573e3	8.083e2	0.90	
Other HpCDD	1 40:10	6.54e4	5.83e4					1.12	
Octa-Furans:									
	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:06	6.45e4	7.30e4	1.56e4	1.91e4	1.102e3	1.410e3	0.88	
Octa-Dioxins:									
	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:56	5.88e7	6.63e7	1.63e7	1.84e7	7.673e2	7.949e2	0.89	
OCDD	43:56	1.93e5	2.32e5	5.56e4	6.86e4	1.235e3	1.079e3	0.83	

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### PCDD/PCDF Detected Peak List

Prepared By \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client Name ESS Laboratory  
Client ID 0702344-04  
Lab ID 1047221004  
Filename P70306A\_13  
Analyzed 03/06/2007 22:24

Injected By CVS  
Instrument ID 10MSHR09 (P)  
GC Column ID US5455214H  
ICAL Date 02/28/2007

Page 1

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:53	8.24e7	1.04e8	1.24e7	1.58e7	2.141e3	1.947e3	0.79	
2,3,7,8-TCDF	22:55	8.87e5	1.04e6	1.30e5	1.62e5	4.234e3	2.013e3	0.85	
Other TCDF	1 17:01	5.04e5	6.48e5					0.78	
	2 18:16	3.36e5	4.95e5					0.68	
	3 18:39	5.28e5	7.15e5					0.74	
	4 18:46	9.98e5	1.31e6					0.76	
	5 19:08	3.37e6	4.41e6					0.77	
	6 19:26	2.99e5	3.66e5					0.82	
	7 19:35	1.31e6	1.70e6					0.77	
	8 20:15	3.02e6	3.91e6					0.77	
	9 20:32	6.43e5	7.28e5					0.88	
	10 21:01	8.72e5	1.02e6					0.85	
	11 21:12	3.66e6	4.85e6					0.76	
	12 21:50	1.32e6	1.66e6					0.80	
	13 22:08	5.31e5	6.70e5					0.79	
	14 22:20	3.40e5	4.25e5					0.80	
	15 22:38	4.53e5	5.86e5					0.77	
	16 22:43	3.36e5	4.55e5					0.74	
	17 23:22	1.36e6	1.86e6					0.73	
	18 25:55	3.88e5	5.00e5					0.78	
Ethers	1 19:54	5.78e6	7.44e6					0.78	E
	2 21:30	2.70e7	3.56e7					0.76	E
	3 21:41	5.09e5	5.87e5					0.87	E
	4 23:50	5.96e6	7.90e6					0.75	E
	5 24:22	7.30e5	9.94e5					0.73	E
	6 24:43	9.33e7	1.20e8					0.77	E
	7 24:60	8.08e7	1.05e8					0.77	E
	8 26:08	3.78e5	4.82e5					0.78	E
	9 26:23	2.17e7	2.82e7					0.77	E
Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	23:05	6.87e7	8.65e7	1.02e7	1.29e7	3.294e3	2.056e3	0.79	
2,3,7,8-TCDD-13C	24:03	6.05e7	7.64e7	8.22e6	1.05e7	3.352e3	2.518e3	0.79	
2,3,7,8-TCDD-37Cl4	24:06	1.42e7		1.99e6		5.734e3	----		
2,3,7,8-TCDD	24:06	4.88e4	7.62e4	9.33e3	1.05e4	8.122e2	7.463e2	0.64	I
Other TCDD	1 25:33	2.50e4	3.05e4					0.82	
	2 24:43	1.87e4	2.38e4					0.79	
	3 24:33	5.35e4	8.22e4					0.65	
	4 19:51	4.14e5	5.39e5					0.77	

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Client Name ESS Laboratory  
 Client ID 0702344-04  
 Lab ID 1047221004  
 Filename P70306A\_13  
 Analyzed 03/06/2007 22:24

Injected By CVS  
 Instrument ID 10MSHR09 (P)  
 GC Column ID US5455214H  
 ICAL Date 02/28/2007

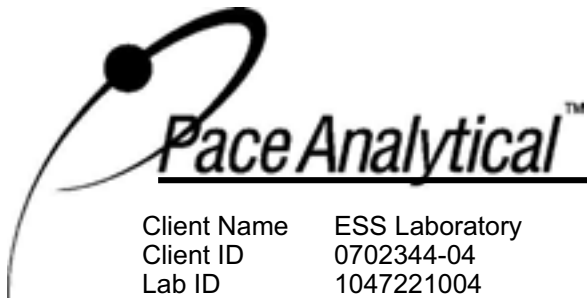
5	20:13	2.07e5	2.98e5	0.70
6	20:35	5.02e4	6.57e4	0.76
7	21:39	1.43e5	1.75e5	0.81
8	21:55	1.33e5	1.71e5	0.78
9	22:06	7.12e4	8.51e4	0.84
10	22:39	7.67e4	9.59e4	0.80
11	23:05	4.92e4	5.54e4	0.89
12	23:39	9.47e4	1.20e5	0.79
13	23:49	2.29e4	3.47e4	0.66

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	30:37	8.15e7	5.27e7	1.37e7	8.97e6	1.019e3	2.185e3	1.55	
2,3,4,7,8-PeCDF-13C	32:09	8.26e7	5.26e7	1.61e7	1.05e7	5.492e3	5.569e3	1.57	
1,2,3,7,8-PeCDF	30:39	4.64e5	3.08e5	7.95e4	5.05e4	1.304e3	8.031e2	1.51	
2,3,4,7,8-PeCDF	32:11	2.68e6	1.74e6	5.42e5	3.40e5	5.376e2	5.629e2	1.54	
Other PeCDF	1	28:17	4.46e5	3.06e5				1.46	
	2	28:40	1.25e6	8.28e5				1.51	
	3	28:56	7.48e6	4.70e6				1.59	
	4	29:47	1.68e5	1.10e5				1.52	
	5	29:57	2.46e6	1.65e6				1.49	
	6	32:00	6.40e5	3.88e5				1.65	
	7	25:57	1.58e7	1.03e7				1.54	
Ethers	1	29:14	1.94e7	1.25e7				1.54	E
	2	30:20	7.59e5	4.74e5				1.60	E
	3	30:52	6.53e7	4.19e7				1.56	E
	4	31:04	3.01e6	2.02e6				1.49	E
	5	31:13	3.05e6	2.03e6				1.50	E
	6	33:01	6.69e5	4.31e5				1.55	E
	7	33:13	9.33e6	5.95e6				1.57	E
	8	33:26	1.07e7	6.78e6				1.57	E
	9	34:00	2.64e5	1.66e5				1.59	E

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:37	6.47e7	4.16e7	1.31e7	8.36e6	8.913e2	8.862e2	1.56	
1,2,3,7,8-PeCDD	32:38	6.88e4	1.14e5	2.55e3	2.08e4	1.216e3	1.058e3	0.61	
Other PeCDD	1	33:11	3.93e4	7.59e4				0.52	
	2	32:44	2.24e4	4.33e4				0.52	
	3	29:00	3.30e5	5.62e5				0.59	
	4	29:50	2.88e4	4.74e4				0.61	
	5	30:56	7.28e4	1.25e5				0.58	
	6	31:06	9.87e4	1.80e5				0.55	
	7	31:26	1.02e5	1.56e5				0.66	

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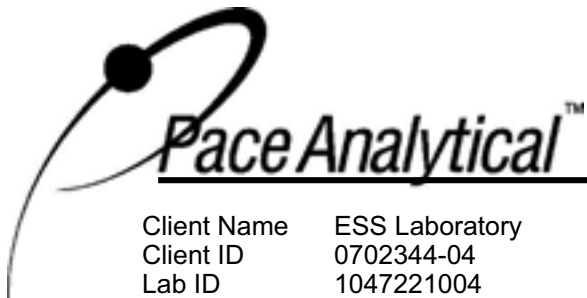


Client Name	ESS Laboratory	Injected By	CVS
Client ID	0702344-04	Instrument ID	10MSHR09 (P)
Lab ID	1047221004	GC Column ID	US5455214H
Filename	P70306A_13	ICAL Date	02/28/2007
Analyzed	03/06/2007 22:24		

	8	31:57	5.95e4	1.02e5					0.58	
Hexa-Furans:										
		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
		1,2,3,4,7,8-HxCDF-13C	36:14	3.31e7	6.48e7	8.37e6	1.65e7	1.153e4	1.859e4	0.51
		1,2,3,6,7,8-HxCDF-13C	36:23	3.42e7	6.67e7	8.05e6	1.57e7	1.211e4	1.876e4	0.51
		2,3,4,6,7,8-HxCDF-13C	37:06	3.11e7	6.11e7	7.97e6	1.54e7	4.562e2	1.169e3	0.51
		1,2,3,7,8,9-HxCDF-13C	38:06	2.50e7	4.80e7	6.67e6	1.28e7	9.810e3	8.070e3	0.52
		1,2,3,4,7,8-HxCDF	36:14	3.06e6	2.53e6	7.76e5	6.66e5	6.620e2	6.138e2	1.21
		1,2,3,6,7,8-HxCDF	36:23	5.03e5	4.06e5	1.42e5	1.02e5	4.707e3	1.931e3	1.24
		2,3,4,6,7,8-HxCDF	37:06	9.26e5	7.25e5	2.13e5	1.66e5	6.332e2	7.510e2	1.28
		1,2,3,7,8,9-HxCDF	38:07	1.31e5	1.03e5	3.53e4	2.37e4	1.170e3	1.625e3	1.28
Other HxCDF										
	1	34:23	7.86e5	7.04e5					1.12	
	2	34:38	8.97e5	7.67e5					1.17	
	3	34:52	4.54e6	3.63e6					1.25	
	4	35:35	1.91e6	1.60e6					1.19	
	5	35:52	1.17e5	1.03e5					1.13	
	6	36:05	3.75e5	3.12e5					1.20	
Ethers										
	1	35:11	7.52e4	6.64e4					1.13	E
	2	35:18	8.82e5	7.16e5					1.23	E
	3	35:39	9.81e6	8.02e6					1.22	E
	4	36:14	3.06e6	2.53e6					1.21	E
	5	36:27	2.00e5	1.71e5					1.17	E
	6	36:47	2.37e6	1.96e6					1.21	E
Hexa-Dioxins:										
		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
		1,2,3,4,7,8-HxCDD-13C	37:17	4.23e7	3.35e7	1.15e7	9.07e6	8.742e3	5.298e4	1.26
		1,2,3,6,7,8-HxCDD-13C	37:24	4.60e7	3.61e7	1.16e7	9.22e6	7.213e4	7.243e3	1.27
		1,2,3,7,8,9-HxCDD-13C	37:45	5.13e7	4.10e7	1.32e7	1.05e7	3.803e2	7.493e2	1.25
		1,2,3,4,7,8-HxCDD	37:19	6.04e4	3.78e4	1.79e4	1.17e4	1.206e3	3.650e2	1.60
		1,2,3,6,7,8-HxCDD	37:25	1.47e5	1.11e5	3.98e4	2.79e4	1.033e3	5.907e2	1.32
		1,2,3,7,8,9-HxCDD	37:45	9.77e4	7.61e4	2.57e4	1.81e4	1.319e3	9.464e2	1.28
Other HxCDD										
	1	35:24	3.10e5	2.96e5					1.05	
	2	36:10	3.70e5	2.77e5					1.33	
	3	36:29	5.53e5	4.48e5					1.24	
	4	37:37	5.79e4	4.58e4					1.26	
Hepta-Furans:										
		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
		1,2,3,4,6,7,8-HpCDF-13C	39:50	2.42e7	5.38e7	7.45e6	1.68e7	5.919e3	4.497e3	0.45
		1,2,3,4,7,8,9-HpCDF-13C	41:28	1.89e7	4.32e7	5.65e6	1.29e7	1.228e3	6.813e2	0.44

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Client Name	ESS Laboratory	Injected By	CVS
Client ID	0702344-04	Instrument ID	10MSHR09 (P)
Lab ID	1047221004	GC Column ID	US5455214H
Filename	P70306A_13	ICAL Date	02/28/2007
Analyzed	03/06/2007 22:24		

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1,2,3,4,6,7,8-HpCDF	39:51	1.64e6	1.69e6	5.46e5	5.18e5	1.955e3	7.749e2	0.97	
1,2,3,4,7,8,9-HpCDF	41:29	1.27e5	1.28e5	4.02e4	3.81e4	2.091e3	1.307e3	0.99	
Other HpCDF	1 40:19	7.40e5	7.57e5					0.98	
Ethers	1 40:24	1.28e5	1.40e5					0.91	E
Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	40:57	3.78e7	3.63e7	1.14e7	1.09e7	8.301e2	1.061e3	1.04	
1,2,3,4,6,7,8-HpCDD	40:58	7.87e5	8.02e5	2.30e5	2.46e5	9.949e2	1.086e3	0.98	
Other HpCDD	1 40:10	6.73e5	6.66e5					1.01	
Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:05	6.47e5	7.41e5	1.69e5	2.07e5	4.470e2	6.124e2	0.87	
Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:55	5.03e7	5.66e7	1.39e7	1.57e7	7.585e2	7.264e2	0.89	
OCDD	43:56	2.21e6	2.53e6	6.22e5	7.35e5	4.020e2	1.191e3	0.88	

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### PCDD/PCDF Detected Peak List

Prepared By \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client Name ESS Laboratory  
Client ID 0702344-05  
Lab ID 1047221005  
Filename P70306B\_02  
Analyzed 03/07/2007 04:47

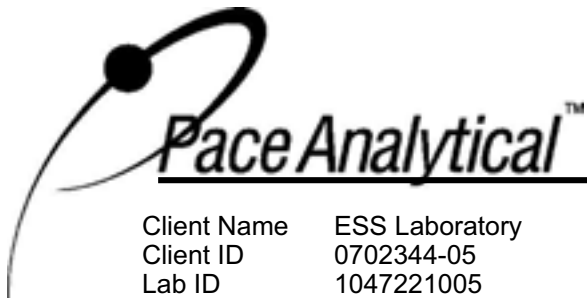
Injected By CVS  
Instrument ID 10MSHR09 (P)  
GC Column ID US5455214H  
ICAL Date 02/28/2007

Page 1

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		22:50	8.59e7	1.09e8	1.23e7	1.56e7	1.768e3	1.324e3	0.79	
2,3,7,8-TCDF		22:52	8.71e4	1.12e5	1.21e4	1.53e4	8.070e2	6.882e2	0.78	
Other TCDF		1 18:14	2.15e4	2.88e4					0.75	
		2 18:37	2.25e4	3.20e4					0.71	
		3 19:05	1.48e5	1.73e5					0.86	
		4 20:58	3.88e4	4.69e4					0.83	
		5 21:08	4.96e4	6.43e4					0.77	
		6 21:16	5.22e4	6.22e4					0.84	
		7 21:48	6.30e4	7.56e4					0.83	
		8 22:05	1.93e4	2.40e4					0.80	
		9 23:20	7.81e4	9.27e4					0.84	
Ethers		1 19:50	6.99e4	1.05e5					0.67	E
		2 21:28	2.40e5	3.03e5					0.79	E
		3 23:48	3.16e4	4.79e4					0.66	E
		4 24:39	7.89e5	1.02e6					0.77	E
		5 24:57	4.15e5	5.19e5					0.80	E
		6 26:20	1.15e5	1.55e5					0.74	E
Tetra-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C		23:02	7.69e7	9.70e7	1.13e7	1.42e7	5.375e3	3.029e3	0.79	
2,3,7,8-TCDD-13C		24:01	6.28e7	7.98e7	8.66e6	1.09e7	3.544e3	4.168e3	0.79	
2,3,7,8-TCDD-37Cl4		24:03	1.49e7		1.97e6		1.075e3	-----		
2,3,7,8-TCDD		24:03	ND	ND	ND	ND	6.477e2	7.049e2		
Other TCDD		1 19:48	5.71e4	8.23e4					0.69	
Penta-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C		30:34	8.61e7	5.56e7	1.39e7	8.89e6	1.018e3	1.271e3	1.55	
2,3,4,7,8-PeCDF-13C		32:07	8.83e7	5.68e7	1.63e7	1.06e7	8.364e3	7.151e3	1.56	
1,2,3,7,8-PeCDF		30:36	4.92e4	2.92e4	9.12e3	5.46e3	6.943e2	8.905e2	1.69	
2,3,4,7,8-PeCDF		32:09	6.53e4	4.91e4	1.38e4	9.28e3	9.072e2	6.652e2	1.33	
Other PeCDF		1 28:36	6.77e4	3.95e4					1.72	
		2 28:53	1.22e5	7.67e4					1.59	
		3 30:59	3.41e4	2.43e4					1.41	
		4 31:58	5.29e4	3.59e4					1.48	
		5 25:51	1.95e5	1.18e5					1.65	

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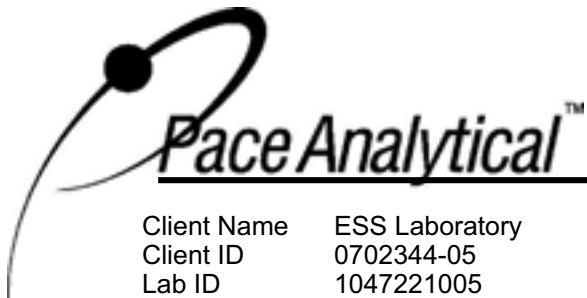


Client Name	ESS Laboratory	Injected By	CVS
Client ID	0702344-05	Instrument ID	10MSHR09 (P)
Lab ID	1047221005	GC Column ID	US5455214H
Filename	P70306B_02	ICAL Date	02/28/2007
Analyzed	03/07/2007 04:47		

Ethers	1	30:50	4.07e5	2.71e5					1.50	E
Penta-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C		32:35	6.92e7	4.34e7	1.36e7	8.37e6	5.688e2	1.906e3	1.59	
1,2,3,7,8-PeCDD		32:37	1.64e4	1.96e4	2.29e4	3.60e3	6.032e2	4.891e2	0.84	I
Other PeCDD	1	28:56	3.53e4	5.55e4					0.64	
Hexa-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C		36:11	3.79e7	7.26e7	9.31e6	1.78e7	1.309e4	8.434e2	0.52	
1,2,3,6,7,8-HxCDF-13C		36:20	4.11e7	7.81e7	9.53e6	1.78e7	1.282e4	2.351e3	0.53	
2,3,4,6,7,8-HxCDF-13C		37:04	3.74e7	7.22e7	9.63e6	1.82e7	4.694e2	1.388e3	0.52	
1,2,3,7,8,9-HxCDF-13C		38:05	3.18e7	6.15e7	7.86e6	1.51e7	2.108e4	2.105e4	0.52	
1,2,3,4,7,8-HxCDF		36:13	8.20e4	7.03e4	2.22e4	1.79e4	7.404e2	8.650e2	1.17	
1,2,3,6,7,8-HxCDF		36:22	5.04e4	3.60e4	1.49e4	1.12e4	9.056e2	8.650e2	1.40	
2,3,4,6,7,8-HxCDF		37:05	5.58e4	4.29e4	1.25e4	1.09e4	9.271e2	4.617e2	1.30	
1,2,3,7,8,9-HxCDF		38:05	2.65e4	2.44e4	7.45e3	6.54e3	5.950e2	4.358e2	1.09	
Other HxCDF	1	34:36	4.35e4	3.54e4					1.23	
	2	34:50	9.29e4	7.17e4					1.30	
	3	35:19	1.53e4	1.09e4					1.40	
	4	35:35	2.29e4	2.19e4					1.05	
	5	36:03	4.02e4	3.20e4					1.26	
Ethers	1	35:39	2.60e4	2.40e4					1.08	E
Hexa-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C		37:15	4.98e7	3.95e7	1.28e7	1.02e7	8.582e3	3.233e4	1.26	
1,2,3,6,7,8-HxCDD-13C		37:23	5.39e7	4.30e7	1.35e7	1.08e7	1.968e3	3.233e4	1.25	
1,2,3,7,8,9-HxCDD-13C		37:42	6.22e7	5.02e7	1.51e7	1.24e7	1.592e3	7.625e2	1.24	
1,2,3,4,7,8-HxCDD		37:17	1.81e4	1.70e4	4.50e3	4.22e3	6.005e2	1.048e3	1.06	
1,2,3,6,7,8-HxCDD		37:24	1.87e4	2.32e4	3.72e3	6.96e3	5.556e2	7.277e2	0.81	I
1,2,3,7,8,9-HxCDD		37:43	2.79e4	1.68e4	8.71e3	5.34e3	8.927e2	8.287e2	1.66	I
Other HxCDD	1	35:22	3.72e4	2.82e4					1.32	
	2	37:36	8.67e3	7.39e3					1.17	
Hepta-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code

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Client Name	ESS Laboratory	Injected By	CVS
Client ID	0702344-05	Instrument ID	10MSHR09 (P)
Lab ID	1047221005	GC Column ID	US5455214H
Filename	P70306B_02	ICAL Date	02/28/2007
Analyzed	03/07/2007 04:47		

1,2,3,4,6,7,8-HpCDF-13C	39:48	2.93e7	6.44e7	8.14e6	1.80e7	4.005e3	2.904e4	0.46
1,2,3,4,7,8,9-HpCDF-13C	41:27	2.33e7	5.17e7	6.67e6	1.49e7	2.356e3	3.260e3	0.45
1,2,3,4,6,7,8-HpCDF	39:49	1.55e5	1.61e5	4.39e4	4.08e4	1.375e3	1.111e3	0.96
1,2,3,4,7,8,9-HpCDF	41:28	5.15e4	4.89e4	1.22e4	1.34e4	5.606e2	9.401e2	1.05

Other HpCDF	1	40:18	3.04e4	2.97e4				1.03
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Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
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1,2,3,4,6,7,8-HpCDD-13C	40:57	4.49e7	4.36e7	1.37e7	1.29e7	3.302e2	4.062e2	1.03	
1,2,3,4,6,7,8-HpCDD	40:57	1.41e5	1.27e5	4.17e4	3.98e4	5.877e2	1.034e3	1.11	

Other HpCDD	1	40:08	9.95e4	1.10e5				0.90	
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Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
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OCDF	44:04	1.48e5	1.95e5	4.25e4	5.32e4	1.160e3	1.405e3	0.76	
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Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
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OCDD-13C	43:53	6.38e7	7.17e7	1.72e7	1.88e7	8.971e2	8.457e2	0.89	
OCDD	43:54	6.41e5	7.19e5	1.66e5	2.05e5	5.229e2	8.935e2	0.89	

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**PCDD/PCDF Detected Peak List**

Prepared By \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client Name ESS Laboratory  
Client ID 0702344-06  
Lab ID 1047221006  
Filename P70306B\_06  
Analyzed 03/07/2007 07:58

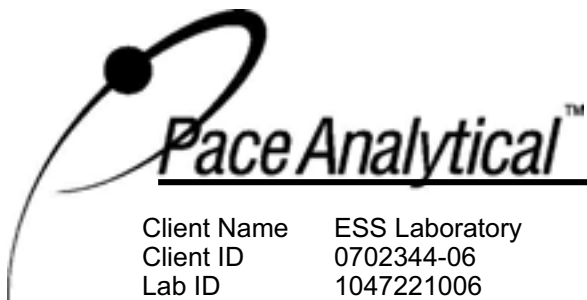
Injected By CVS  
Instrument ID 10MSHR09 (P)  
GC Column ID US5455214H  
ICAL Date 02/28/2007

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:59	6.98e7	8.84e7	7.48e6	9.62e6	3.878e3	2.250e3	0.79	
2,3,7,8-TCDF	22:60	1.41e6	1.74e6	1.05e5	1.43e5	3.281e3	3.817e3	0.81	
Other TCDF	1 17:43	1.26e4	1.89e4					0.67	
	2 18:41	4.25e5	5.59e5					0.76	
	3 19:39	1.32e6	1.73e6					0.76	
	4 20:19	1.85e6	2.62e6					0.71	
	5 20:35	3.87e5	5.67e5					0.68	
	6 21:16	2.57e6	3.56e6					0.72	
	7 21:54	1.09e6	1.51e6					0.72	
	8 22:25	2.85e5	4.32e5					0.66	
	9 22:47	7.20e5	1.11e6					0.65	
	10 23:28	1.16e6	1.49e6					0.78	
	11 24:13	2.63e4	3.02e4					0.87	
Ethers	1 18:19	4.14e5	5.38e5					0.77	E
	2 18:48	4.21e5	5.30e5					0.79	E
	3 19:12	2.43e6	3.30e6					0.74	E
	4 19:31	4.51e5	6.28e5					0.72	E
	5 19:56	2.94e6	4.06e6					0.72	E
	6 21:04	6.77e5	1.02e6					0.66	E
	7 21:32	1.01e7	1.36e7					0.74	E
	8 22:11	4.17e5	5.46e5					0.76	E
	9 23:52	2.66e6	3.47e6					0.77	E
	10 24:24	2.94e5	3.73e5					0.79	E
	11 24:45	3.16e7	4.15e7					0.76	E
	12 25:04	3.56e7	4.64e7					0.77	E
	13 26:27	7.74e6	9.90e6					0.78	E

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	23:10	6.80e7	8.76e7	8.11e6	1.04e7	4.627e3	1.450e3	0.78	
2,3,7,8-TCDD-13C	24:10	5.18e7	6.57e7	5.42e6	6.77e6	4.004e3	2.321e3	0.79	
2,3,7,8-TCDD-37Cl4	24:12	1.23e7		1.29e6		3.510e3	----		
2,3,7,8-TCDD	24:13	1.25e5	1.53e5	1.36e4	1.56e4	1.521e3	1.166e3	0.82	
Other TCDD	1 24:38	2.45e5	3.08e5					0.80	
	2 24:47	1.59e5	2.20e5					0.72	
	3 25:40	3.61e5	4.74e5					0.76	
	4 19:54	9.31e5	1.15e6					0.81	
	5 20:16	5.54e5	7.65e5					0.72	
	6 20:38	1.58e5	2.14e5					0.74	
	7 21:27	6.42e4	9.92e4					0.65	

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Client Name ESS Laboratory  
Client ID 0702344-06  
Lab ID 1047221006  
Filename P70306B\_06  
Analyzed 03/07/2007 07:58

Injected By CVS  
Instrument ID 10MSHR09 (P)  
GC Column ID US5455214H  
ICAL Date 02/28/2007

8	21:44	5.97e5	7.97e5	0.75
9	21:58	2.56e5	3.41e5	0.75
10	22:09	1.87e5	2.78e5	0.67
11	22:28	6.01e4	7.75e4	0.78
12	22:43	1.95e5	2.31e5	0.84
13	23:09	4.97e5	5.61e5	0.89
14	23:20	1.86e5	2.51e5	0.74
15	23:44	3.74e5	4.75e5	0.79
16	23:55	3.30e5	4.10e5	0.81

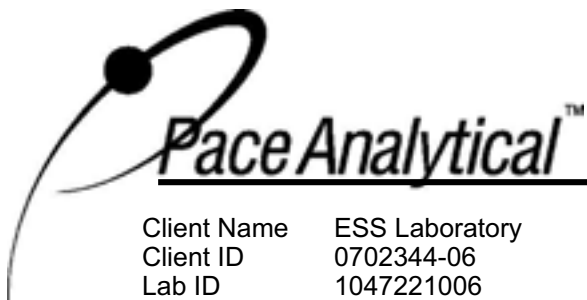
Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	30:45	6.49e7	4.17e7	6.44e6	4.08e6	6.371e4	3.268e4	1.56	
2,3,4,7,8-PeCDF-13C	32:18	5.74e7	3.66e7	6.21e6	4.06e6	3.664e3	1.852e3	1.57	
1,2,3,7,8-PeCDF	30:44	4.72e5	3.21e5	1.19e5	8.07e4	6.747e3	5.008e3	1.47	E
2,3,4,7,8-PeCDF	32:18	2.11e6	1.35e6	2.95e5	1.82e5	8.336e3	6.163e3	1.56	
Other PeCDF	1	28:48	1.88e6	1.16e6				1.62	
	2	29:04	5.88e6	3.91e6				1.51	
	3	29:55	3.13e5	2.05e5				1.53	
	4	30:06	2.51e6	1.73e6				1.46	
	5	32:09	7.74e5	4.78e5				1.62	
	6	26:07	1.51e7	9.53e6				1.59	
Ethers	1	29:17	1.02e7	6.68e6				1.53	E
	2	30:44	4.72e5	3.21e5				1.47	E
	3	30:53	3.69e7	2.38e7				1.55	E
	4	31:07	1.74e6	1.31e6				1.32	E
	5	31:15	3.01e6	1.86e6				1.62	E
	6	32:24	7.14e5	5.03e5				1.42	E
	7	33:03	3.25e5	2.21e5				1.47	E
	8	33:16	5.04e6	3.28e6				1.54	E
	9	33:29	6.61e6	4.29e6				1.54	E
	10	34:02	1.42e5	9.09e4				1.57	E

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:45	4.84e7	3.10e7	5.68e6	3.71e6	1.232e3	2.128e3	1.56	
1,2,3,7,8-PeCDD	32:48	5.67e5	8.94e5	1.06e4	9.36e4	1.911e3	2.961e3	0.63	
Other PeCDD	1	29:09	1.60e6	2.54e6				0.63	
	2	29:57	2.41e5	4.02e5				0.60	
	3	30:48	9.10e5	1.30e6				0.70	
	4	31:04	2.60e5	4.54e5				0.57	
	5	31:14	4.15e5	7.46e5				0.56	
	6	31:33	6.54e5	1.13e6				0.58	
	7	32:04	4.82e5	8.37e5				0.58	

## REPORT OF LABORATORY ANALYSIS

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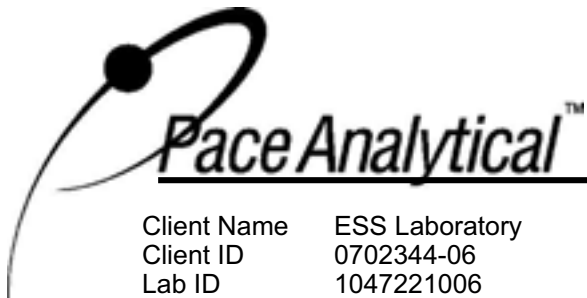
Client Name ESS Laboratory  
Client ID 0702344-06  
Lab ID 1047221006  
Filename P70306B\_06  
Analyzed 03/07/2007 07:58

Injected By CVS  
Instrument ID 10MSHR09 (P)  
GC Column ID US5455214H  
ICAL Date 02/28/2007

		8	33:19	3.38e5	5.55e5				0.61		
Hexa-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code	
1,2,3,4,7,8-HxCDF-13C		36:26	1.94e7	3.87e7	3.33e6	6.35e6	6.288e3	1.045e3	0.50		
1,2,3,6,7,8-HxCDF-13C		36:35	1.75e7	3.43e7	3.32e6	6.51e6	6.233e3	5.198e3	0.51		
2,3,4,6,7,8-HxCDF-13C		37:19	1.60e7	3.14e7	2.96e6	6.02e6	3.219e3	5.552e3	0.51		
1,2,3,7,8,9-HxCDF-13C		38:16	1.21e7	2.35e7	2.70e6	5.19e6	2.174e3	3.266e3	0.52		
1,2,3,4,7,8-HxCDF		36:27	5.72e5	5.21e5	1.72e5	1.23e5	2.657e3	1.413e3	1.10		
1,2,3,6,7,8-HxCDF		36:36	5.53e5	5.17e5	9.66e4	9.81e4	2.180e3	1.413e3	1.07		
2,3,4,6,7,8-HxCDF		37:19	8.33e5	7.42e5	1.36e5	1.07e5	2.812e3	1.315e3	1.12	E	
1,2,3,7,8,9-HxCDF		38:17	2.13e5	1.84e5	4.95e4	3.93e4	1.399e3	1.878e3	1.16		
Other HxCDF		1 34:33	3.62e4	3.26e4					1.11		
		2 34:52	4.83e6	4.00e6					1.21		
		3 35:05	1.37e7	1.11e7					1.23		
		4 35:31	4.91e5	4.42e5					1.11		
		5 35:48	2.24e7	1.81e7					1.24		
Ethers		1 35:20	6.15e5	5.38e5					1.14	E	
		2 35:42	6.26e6	5.14e6					1.22	E	
		3 36:17	2.01e6	1.75e6					1.15	E	
		4 36:30	1.90e5	1.58e5					1.20	E	
		5 36:49	4.06e6	3.56e6					1.14	E	
		6 37:19	8.33e5	7.42e5					1.12	E	
Hexa-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code	
1,2,3,4,7,8-HxCDD-13C		37:29	2.50e7	2.00e7	4.92e6	3.91e6	4.673e3	3.570e3	1.25		
1,2,3,6,7,8-HxCDD-13C		37:37	2.11e7	1.68e7	4.84e6	3.72e6	2.488e4	1.988e4	1.25		
1,2,3,7,8,9-HxCDD-13C		37:56	3.15e7	2.53e7	7.10e6	5.77e6	2.014e3	7.274e2	1.25		
1,2,3,4,7,8-HxCDD		37:30	3.87e5	3.07e5	10.00e4	5.97e4	3.067e3	9.596e2	1.26		
1,2,3,6,7,8-HxCDD		37:37	4.64e6	3.79e6	9.90e5	7.98e5	2.062e3	1.252e3	1.22		
1,2,3,7,8,9-HxCDD		37:57	1.93e6	1.62e6	4.51e5	3.71e5	1.355e3	2.864e3	1.19		
Other HxCDD		1 35:36	7.15e6	5.79e6					1.23		
		2 36:22	1.19e6	9.23e5					1.29		
		3 36:40	2.50e7	2.03e7					1.23		
		4 37:21	1.15e5	9.72e4					1.18		
		5 37:48	3.46e5	2.90e5					1.19		
Hepta-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code	
1,2,3,4,6,7,8-HpCDF-13C		40:03	8.35e6	1.90e7	1.96e6	4.61e6	6.595e3	7.351e3	0.44		
1,2,3,4,7,8,9-HpCDF-13C		41:38	4.92e6	1.15e7	1.23e6	2.79e6	5.470e3	1.650e3	0.43		

## REPORT OF LABORATORY ANALYSIS

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Client Name	ESS Laboratory	Injected By	CVS
Client ID	0702344-06	Instrument ID	10MSHR09 (P)
Lab ID	1047221006	GC Column ID	US5455214H
Filename	P70306B_06	ICAL Date	02/28/2007
Analyzed	03/07/2007 07:58		

1,2,3,4,6,7,8-HpCDF	40:04	7.12e7	7.03e7	1.69e7	1.68e7	4.057e3	2.527e3	1.01
1,2,3,4,7,8,9-HpCDF	41:39	1.76e5	1.82e5	3.54e4	2.41e4	5.049e3	3.975e3	0.97
Other HpCDF	1 40:31	3.62e7	3.51e7					1.03

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	41:09	1.17e7	1.12e7	3.00e6	2.86e6	1.162e3	7.104e2	1.05	
1,2,3,4,6,7,8-HpCDD	41:10	1.10e7	1.08e7	2.82e6	2.81e6	2.862e3	3.564e3	1.02	
Other HpCDD	1 40:22	9.61e6	9.18e6					1.05	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:18	1.06e7	1.19e7	2.29e6	2.62e6	9.832e2	1.121e3	0.89	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:08	1.11e7	1.26e7	2.42e6	2.77e6	1.987e3	5.514e2	0.88	
OCDD	44:09	2.04e7	2.28e7	4.48e6	4.99e6	9.109e2	7.671e2	0.90	

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**PCDD/PCDF Detected Peak List**

Prepared By \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

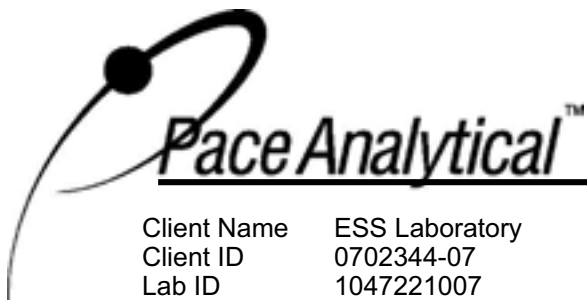
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Client ID 0702344-07  
Lab ID 1047221007  
Filename P70306B\_03  
Analyzed 03/07/2007 05:34

Injected By CVS  
Instrument ID 10MSHR09 (P)  
GC Column ID US5455214H  
ICAL Date 02/28/2007

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:51	1.03e8	1.31e8	1.50e7	1.90e7	1.119e3	3.857e3	0.79	
2,3,7,8-TCDF	22:52	8.00e5	1.02e6	1.25e5	1.34e5	3.565e3	2.697e3	0.78	
Other TCDF	1 17:00	7.29e4	9.58e4					0.76	
	2 18:14	2.00e5	2.80e5					0.71	
	3 18:38	2.34e5	2.85e5					0.82	
	4 18:45	3.10e5	4.04e5					0.77	
	5 19:06	1.21e6	1.64e6					0.74	
	6 19:33	7.47e5	1.06e6					0.70	
	7 20:13	8.24e5	1.04e6					0.79	
	8 20:21	1.20e5	1.61e5					0.75	
	9 20:30	3.15e5	3.76e5					0.84	
	10 20:58	5.67e5	7.51e5					0.76	
	11 21:10	1.14e6	1.32e6					0.86	
	12 21:17	4.01e5	5.91e5					0.68	
	13 21:48	7.27e5	9.58e5					0.76	
	14 22:05	3.06e5	4.04e5					0.76	
	15 22:18	2.47e5	2.82e5					0.88	
	16 23:20	9.96e5	1.31e6					0.76	
Ethers	1 19:25	2.16e5	2.67e5					0.81	E
	2 19:53	1.62e6	2.03e6					0.80	E
	3 21:28	6.69e6	8.83e6					0.76	E
	4 23:48	1.18e6	1.53e6					0.77	E
	5 24:19	1.54e5	1.92e5					0.80	E
	6 24:40	2.08e7	2.70e7					0.77	E
	7 24:58	1.67e7	2.20e7					0.76	E
	8 26:21	4.13e6	5.31e6					0.78	E
Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	23:03	8.63e7	1.08e8	1.27e7	1.60e7	3.942e3	3.123e3	0.80	
2,3,7,8-TCDD-13C	24:02	7.47e7	9.54e7	1.00e7	1.28e7	3.802e3	3.500e3	0.78	
2,3,7,8-TCDD-37Cl4	24:03	1.82e7		2.44e6		4.054e3			
2,3,7,8-TCDD	24:03	4.50e4	7.39e4	6.91e3	9.34e3	7.225e2	5.811e2	0.61	I
Other TCDD	1 25:31	1.83e4	2.22e4					0.83	
	2 24:30	3.61e4	4.46e4					0.81	
	3 19:49	3.66e5	4.67e5					0.78	
	4 20:11	2.49e5	2.90e5					0.86	
	5 20:33	4.52e4	6.29e4					0.72	
	6 21:37	8.94e4	1.34e5					0.67	
	7 21:53	7.48e4	1.01e5					0.74	

**REPORT OF LABORATORY ANALYSIS**

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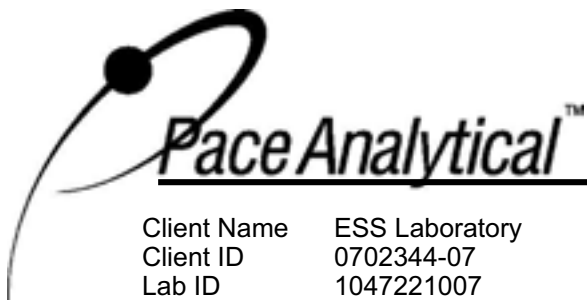
Client Name ESS Laboratory  
Client ID 0702344-07  
Lab ID 1047221007  
Filename P70306B\_03  
Analyzed 03/07/2007 05:34

Injected By CVS  
Instrument ID 10MSHR09 (P)  
GC Column ID US5455214H  
ICAL Date 02/28/2007

	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
	8 22:05	3.66e4	4.76e4					0.77	
	9 22:36	5.46e4	6.59e4					0.83	
<b>Penta-Furans:</b>									
1,2,3,7,8-PeCDF-13C	30:35	1.04e8	6.65e7	1.68e7	1.08e7	1.869e3	3.232e3	1.56	
2,3,4,7,8-PeCDF-13C	32:08	1.07e8	6.77e7	2.00e7	1.26e7	1.111e4	9.578e3	1.57	
1,2,3,7,8-PeCDF	30:36	4.86e5	2.83e5	7.87e4	4.61e4	1.138e3	8.194e2	1.71	
2,3,4,7,8-PeCDF	32:09	1.12e6	7.34e5	2.08e5	1.31e5	1.232e3	7.850e2	1.53	
<b>Other PeCDF</b>									
1	28:36	8.95e5	5.47e5					1.64	
2	28:54	3.01e6	1.97e6					1.53	
3	29:46	1.83e5	1.20e5					1.53	
4	29:56	9.69e5	6.30e5					1.54	
5	30:03	1.66e5	1.19e5					1.40	
6	31:58	5.82e5	3.81e5					1.53	
7	25:53	5.07e6	3.21e6					1.58	
<b>Ethers</b>									
1	29:12	4.68e6	3.08e6					1.52	E
2	30:17	3.28e5	2.25e5					1.45	E
3	30:50	1.78e7	1.12e7					1.58	E
4	31:12	8.70e5	5.68e5					1.53	E
5	32:59	1.57e5	1.02e5					1.54	E
6	33:12	1.96e6	1.31e6					1.50	E
7	33:25	2.67e6	1.67e6					1.60	E
8	33:59	9.62e4	5.41e4					1.78	E
<b>Penta-Dioxins:</b>									
1,2,3,7,8-PeCDD-13C	32:35	8.14e7	5.20e7	1.53e7	9.63e6	7.060e2	9.203e2	1.57	
1,2,3,7,8-PeCDD	32:37	5.32e4	8.80e4	1.87e3	1.72e4	6.534e2	1.104e3	0.60	
<b>Other PeCDD</b>									
1	33:10	3.35e4	6.23e4					0.54	
2	32:42	2.32e4	4.23e4					0.55	
3	28:58	2.65e5	4.61e5					0.58	
4	29:46	3.46e4	5.03e4					0.69	
5	30:54	5.08e4	8.38e4					0.61	
6	31:04	8.72e4	1.44e5					0.60	
7	31:24	8.71e4	1.28e5					0.68	
8	31:55	5.08e4	8.18e4					0.62	
<b>Hexa-Furans:</b>									
1,2,3,4,7,8-HxCDF-13C	36:12	4.45e7	8.61e7	1.04e7	2.04e7	5.383e2	3.385e3	0.52	
1,2,3,6,7,8-HxCDF-13C	36:21	4.63e7	8.95e7	1.03e7	2.03e7	1.259e4	1.260e4	0.52	

## REPORT OF LABORATORY ANALYSIS

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Client Name ESS Laboratory  
Client ID 0702344-07  
Lab ID 1047221007  
Filename P70306B\_03  
Analyzed 03/07/2007 05:34

Injected By CVS  
Instrument ID 10MSHR09 (P)  
GC Column ID US5455214H  
ICAL Date 02/28/2007

2,3,4,6,7,8-HxCDF-13C	37:05	4.32e7	8.33e7	1.04e7	2.03e7	8.209e2	1.407e3	0.52	
1,2,3,7,8,9-HxCDF-13C	38:05	3.53e7	6.76e7	8.67e6	1.66e7	3.788e3	7.821e3	0.52	
1,2,3,4,7,8-HxCDF	36:13	1.25e6	1.04e6	3.11e5	2.63e5	1.356e3	1.133e3	1.20	E
1,2,3,6,7,8-HxCDF	36:22	4.02e5	3.36e5	9.74e4	8.26e4	5.889e2	1.133e3	1.20	
2,3,4,6,7,8-HxCDF	37:06	6.00e5	4.92e5	1.28e5	1.17e5	1.021e3	1.133e3	1.22	
1,2,3,7,8,9-HxCDF	38:06	1.22e5	9.99e4	2.75e4	2.30e4	1.356e3	1.133e3	1.22	
Other HxCDF	1	34:21	2.16e5	1.92e5				1.12	
	2	34:36	5.01e5	3.90e5				1.28	
	3	34:50	1.97e6	1.63e6				1.21	
	4	35:35	8.18e5	6.76e5				1.21	
	5	36:04	4.86e5	4.15e5				1.17	
Ethers	1	35:17	3.23e5	2.85e5				1.13	E
	2	35:39	2.69e6	2.07e6				1.30	E
	3	36:13	1.25e6	1.04e6				1.20	E
	4	36:26	9.47e4	8.66e4				1.09	E
	5	36:46	1.02e6	8.57e5				1.19	E
	6	38:48	3.05e5	2.45e5				1.24	E

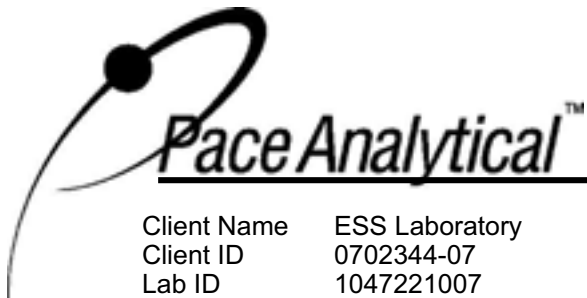
Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:16	5.86e7	4.46e7	1.43e7	1.15e7	3.832e3	2.927e3	1.32	
1,2,3,6,7,8-HxCDD-13C	37:24	5.99e7	4.99e7	1.46e7	1.15e7	8.562e4	7.187e4	1.20	
1,2,3,7,8,9-HxCDD-13C	37:43	6.94e7	5.61e7	1.60e7	1.29e7	1.743e3	1.816e3	1.24	
1,2,3,4,7,8-HxCDD	37:17	6.91e4	5.46e4	1.78e4	1.16e4	4.749e2	6.697e2	1.27	
1,2,3,6,7,8-HxCDD	37:24	1.52e5	1.12e5	3.94e4	2.97e4	7.731e2	1.420e3	1.36	
1,2,3,7,8,9-HxCDD	37:44	1.18e5	9.54e4	3.11e4	2.37e4	7.447e2	1.366e3	1.24	
Other HxCDD	1	35:22	3.03e5	2.79e5				1.09	
	2	36:27	5.06e5	3.92e5				1.29	
	3	37:36	6.92e4	5.79e4				1.20	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	39:49	3.27e7	7.29e7	9.51e6	2.12e7	2.373e3	3.145e3	0.45	
1,2,3,4,7,8,9-HpCDF-13C	41:27	2.65e7	5.84e7	7.37e6	1.63e7	2.373e3	3.256e3	0.45	
1,2,3,4,6,7,8-HpCDF	39:50	2.26e6	2.24e6	7.20e5	6.52e5	1.692e3	6.726e2	1.01	
1,2,3,4,7,8,9-HpCDF	41:28	2.42e5	2.11e5	6.56e4	5.95e4	1.977e3	6.844e2	1.15	
Other HpCDF	1	40:17	7.65e5	7.32e5				1.05	
Ethers	1	40:24	2.23e5	2.19e5				1.02	E

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
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Client Name	ESS Laboratory	Injected By	CVS
Client ID	0702344-07	Instrument ID	10MSHR09 (P)
Lab ID	1047221007	GC Column ID	US5455214H
Filename	P70306B_03	ICAL Date	02/28/2007
Analyzed	03/07/2007 05:34		

1,2,3,4,6,7,8-HpCDD-13C	40:57	5.11e7	4.81e7	1.45e7	1.37e7	1.122e3	3.933e2	1.06
1,2,3,4,6,7,8-HpCDD	40:57	1.32e6	1.24e6	3.74e5	3.36e5	1.516e3	1.152e3	1.06
Other HpCDD	1 40:09	1.22e6	1.23e6					1.00

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:05	3.32e6	3.73e6	8.86e5	9.88e5	5.221e2	4.095e2	0.89	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:54	7.20e7	8.04e7	1.92e7	2.13e7	1.664e3	8.722e2	0.90	
OCDD	43:55	6.63e6	7.44e6	1.83e6	2.06e6	4.554e2	8.564e2	0.89	

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**PCDD/PCDF Detected Peak List**

Prepared By \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

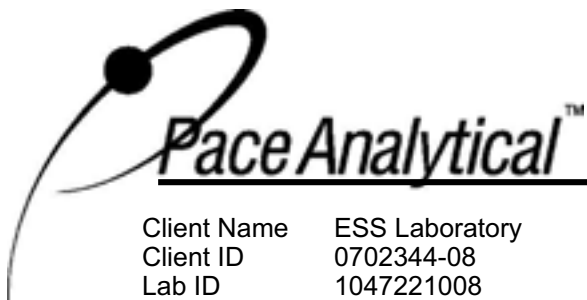
Client Name ESS Laboratory  
Client ID 0702344-08  
Lab ID 1047221008  
Filename P70306B\_04  
Analyzed 03/07/2007 06:22

Injected By CVS  
Instrument ID 10MSHR09 (P)  
GC Column ID US5455214H  
ICAL Date 02/28/2007

Tetra-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C		22:50	8.28e7	1.06e8	1.13e7	1.46e7	4.105e3	1.227e4	0.78	
2,3,7,8-TCDF		22:50	2.70e5	3.45e5	3.30e4	4.89e4	6.584e3	4.370e3	0.78	
Other TCDF		1 16:59	6.35e5	9.00e5					0.71	
		2 18:12	6.71e4	8.95e4					0.75	
		3 18:36	6.98e5	9.07e5					0.77	
		4 18:44	1.09e6	1.45e6					0.75	
		5 19:04	5.82e6	7.82e6					0.74	
		6 20:12	4.52e6	5.95e6					0.76	
		7 26:03	3.71e5	5.01e5					0.74	
Ethers		1 19:52	6.95e6	9.13e6					0.76	E
		2 21:09	3.04e6	4.53e6					0.67	E
		3 21:27	4.73e7	6.24e7					0.76	E
		4 22:41	2.93e5	4.47e5					0.66	E
		5 23:47	8.70e6	1.15e7					0.76	E
		6 24:18	6.24e5	8.83e5					0.71	E
		7 24:39	1.38e8	1.79e8					0.77	E
		8 24:56	1.16e8	1.49e8					0.78	E
		9 25:50	1.29e6	1.62e6					0.79	E
		10 26:19	2.99e7	3.87e7					0.77	E
Tetra-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C		23:01	8.26e7	1.04e8	1.18e7	1.48e7	4.692e3	3.358e3	0.79	
2,3,7,8-TCDD-13C		23:60	6.23e7	7.86e7	8.22e6	1.04e7	3.380e3	6.355e3	0.79	
2,3,7,8-TCDD-37Cl4		24:02	1.50e7		1.93e6		9.125e2	----		
2,3,7,8-TCDD		24:03	1.16e4	3.35e4	2.54e3	3.91e3	1.271e3	9.559e2	0.35	I
Other TCDD		1 19:48	1.53e5	2.30e5					0.66	
		2 20:10	6.19e4	9.58e4					0.65	
		3 21:36	4.40e4	6.54e4					0.67	
		4 21:51	4.15e4	5.52e4					0.75	
		5 22:03	2.33e4	2.89e4					0.80	
Penta-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C		30:34	8.67e7	5.59e7	1.32e7	8.55e6	1.646e3	3.938e3	1.55	
2,3,4,7,8-PeCDF-13C		32:07	9.05e7	5.69e7	1.56e7	1.01e7	7.695e3	4.439e3	1.59	
1,2,3,7,8-PeCDF		30:35	1.43e5	1.13e5	2.42e4	1.73e4	4.994e3	4.278e3	1.27	I
2,3,4,7,8-PeCDF		32:09	7.99e6	5.13e6	1.36e6	8.79e5	4.136e3	2.783e3	1.56	

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Client Name ESS Laboratory  
Client ID 0702344-08  
Lab ID 1047221008  
Filename P70306B\_04  
Analyzed 03/07/2007 06:22

Injected By CVS  
Instrument ID 10MSHR09 (P)  
GC Column ID US5455214H  
ICAL Date 02/28/2007

Other PeCDF	1	28:52	1.36e7	9.58e6					1.41	
	2	29:54	5.63e6	3.44e6					1.64	
	3	31:57	2.25e5	1.56e5					1.44	
	4	34:05	1.80e4	1.28e4					1.41	
	5	25:51	5.49e7	3.48e7					1.58	
Ethers	1	29:10	2.85e7	1.91e7					1.49	E
	2	30:49	9.26e7	5.94e7					1.56	E
	3	31:02	4.02e6	2.55e6					1.57	E
	4	31:11	4.83e6	3.10e6					1.56	E
	5	32:23	7.04e5	5.10e5					1.38	E
	6	32:58	9.31e5	5.63e5					1.65	E
	7	33:11	1.34e7	8.68e6					1.55	E
	8	33:24	2.25e7	1.46e7					1.55	E
	9	33:58	3.17e5	1.97e5					1.61	E

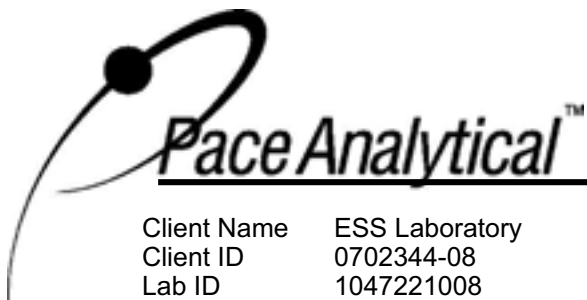
Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:34	6.96e7	4.46e7	1.31e7	8.28e6	4.153e3	5.167e3	1.56	
1,2,3,7,8-PeCDD	32:36	6.22e4	9.16e4	1.61e4	1.59e4	4.245e2	1.141e3	0.68	
Other PeCDD	1	28:56	3.87e5	6.06e5				0.64	
	2	29:46	1.49e4	2.29e4				0.65	
	3	30:53	6.27e4	9.69e4				0.65	
	4	31:03	8.57e4	1.22e5				0.70	
	5	31:24	6.05e4	8.60e4				0.70	
	6	31:54	1.89e4	3.59e4				0.53	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:10	3.83e7	7.46e7	8.78e6	1.70e7	9.546e2	1.356e3	0.51	
1,2,3,6,7,8-HxCDF-13C	36:19	4.18e7	8.05e7	8.98e6	1.69e7	9.546e2	2.515e2	0.52	
2,3,4,6,7,8-HxCDF-13C	37:03	3.80e7	7.44e7	9.02e6	1.76e7	2.320e3	1.226e4	0.51	
1,2,3,7,8,9-HxCDF-13C	38:03	3.37e7	6.54e7	8.19e6	1.55e7	6.955e2	6.844e3	0.52	
1,2,3,4,7,8-HxCDF	36:12	3.88e6	3.24e6	9.60e5	7.98e5	1.681e3	2.115e3	1.20	E
1,2,3,6,7,8-HxCDF	36:21	9.35e5	7.66e5	2.03e5	1.62e5	2.416e3	1.546e3	1.22	
2,3,4,6,7,8-HxCDF	37:03	2.44e6	2.03e6	5.30e5	4.41e5	1.504e3	1.642e3	1.20	
1,2,3,7,8,9-HxCDF	38:05	3.03e5	2.35e5	7.34e4	6.16e4	1.297e3	6.297e2	1.29	
Other HxCDF	1	34:21	1.40e6	1.22e6				1.15	
	2	34:35	2.43e6	1.91e6				1.27	
	3	34:49	1.30e7	1.04e7				1.24	
	4	35:34	1.30e7	1.06e7				1.23	
	5	35:50	2.85e5	2.47e5				1.15	
Ethers	1	35:16	1.23e6	8.91e5				1.38	E

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Client Name ESS Laboratory  
Client ID 0702344-08  
Lab ID 1047221008  
Filename P70306B\_04  
Analyzed 03/07/2007 06:22

Injected By CVS  
Instrument ID 10MSHR09 (P)  
GC Column ID US5455214H  
ICAL Date 02/28/2007

2	35:38	1.25e7	1.01e7	1.24	E
3	36:12	3.88e6	3.24e6	1.20	E
4	36:25	1.93e5	1.52e5	1.27	E
5	36:45	3.48e6	2.80e6	1.24	E
6	38:20	2.57e5	2.24e5	1.15	E
7	38:47	1.54e6	1.25e6	1.23	E

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:15	5.10e7	4.09e7	1.28e7	1.02e7	7.571e4	6.006e4	1.24	
1,2,3,6,7,8-HxCDD-13C	37:22	5.43e7	4.35e7	1.28e7	1.02e7	7.267e4	5.982e4	1.25	
1,2,3,7,8,9-HxCDD-13C	37:41	7.16e7	5.80e7	1.63e7	1.33e7	1.237e4	9.334e3	1.24	
1,2,3,4,7,8-HxCDD	37:15	2.08e4	2.40e4	5.40e3	3.95e3	1.969e3	1.578e3	0.87	I
1,2,3,6,7,8-HxCDD	37:23	1.30e5	1.13e5	3.34e4	2.99e4	1.112e3	1.732e3	1.15	
1,2,3,7,8,9-HxCDD	37:42	7.01e4	5.84e4	1.87e4	1.60e4	1.181e3	1.418e3	1.20	
Other HxCDD	1 35:21	4.35e5	3.17e5					1.37	
	2 36:06	1.84e5	1.29e5					1.42	
	3 36:27	7.26e5	6.03e5					1.20	

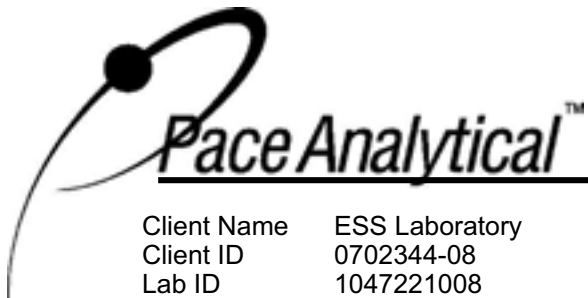
Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	39:47	2.95e7	6.57e7	7.74e6	1.71e7	7.955e3	5.936e4	0.45	
1,2,3,4,7,8,9-HpCDF-13C	41:26	2.34e7	5.29e7	6.44e6	1.45e7	1.663e3	6.494e4	0.44	
1,2,3,4,6,7,8-HpCDF	39:48	9.05e5	8.80e5	2.50e5	2.20e5	8.070e2	5.243e2	1.03	
1,2,3,4,7,8,9-HpCDF	41:27	1.13e5	9.78e4	2.67e4	2.51e4	1.645e3	4.328e2	1.15	
Other HpCDF	1 40:17	1.11e6	1.08e6					1.03	
Ethers	1 40:23	1.37e5	1.36e5					1.01	E

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	40:56	4.70e7	4.49e7	1.30e7	1.23e7	5.408e3	7.170e2	1.05	
1,2,3,4,6,7,8-HpCDD	40:57	2.84e5	2.89e5	7.17e4	7.68e4	1.146e3	8.610e2	0.98	
Other HpCDD	1 40:07	3.28e5	2.98e5					1.10	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:04	1.69e5	2.20e5	3.94e4	5.46e4	9.403e2	5.132e2	0.77	

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

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

Client Name	ESS Laboratory	Injected By	CVS
Client ID	0702344-08	Instrument ID	10MSHR09 (P)
Lab ID	1047221008	GC Column ID	US5455214H
Filename	P70306B_04	ICAL Date	02/28/2007
Analyzed	03/07/2007 06:22		

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Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:53	6.58e7	7.33e7	1.70e7	1.90e7	1.463e3	3.831e2	0.90	
OCDD	43:54	8.23e5	9.02e5	2.02e5	2.28e5	1.742e3	5.847e2	0.91	

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### PCDD/PCDF Detected Peak List

Prepared By \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client Name ESS Laboratory  
Client ID 0702344-09  
Lab ID 1047221009  
Filename P70306B\_05  
Analyzed 03/07/2007 07:10

Injected By CVS  
Instrument ID 10MSHR09 (P)  
GC Column ID US5455214H  
ICAL Date 02/28/2007

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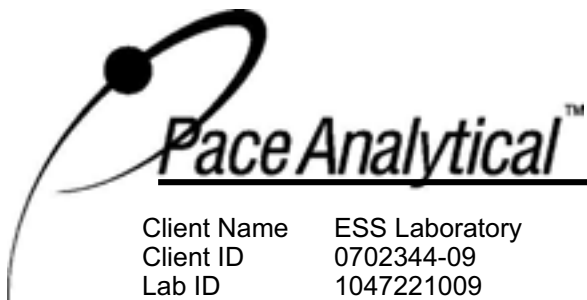
Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:51	6.53e7	8.33e7	8.84e6	1.12e7	5.341e3	3.703e3	0.78	
2,3,7,8-TCDF	22:53	8.20e4	1.00e5	1.27e4	1.16e4	2.164e3	2.145e3	0.82	
Other TCDF	1 18:37	2.89e4	3.43e4					0.84	
	2 18:46	2.13e4	3.00e4					0.71	
	3 19:05	1.03e5	1.42e5					0.72	
	4 19:32	6.69e4	1.01e5					0.67	
	5 20:13	7.59e4	9.69e4					0.78	
	6 20:29	2.72e4	4.07e4					0.67	
	7 20:59	5.24e4	6.22e4					0.84	
	8 21:10	8.60e4	1.02e5					0.84	
	9 21:48	6.61e4	9.29e4					0.71	
	10 22:05	2.14e4	2.95e4					0.72	
	11 22:19	1.91e4	2.20e4					0.87	
	12 22:39	4.49e4	6.12e4					0.73	
	13 23:21	8.60e4	1.15e5					0.75	
Ethers	1 19:52	1.03e5	1.17e5					0.88	E
	2 21:28	2.47e5	3.18e5					0.78	E
	3 23:48	4.83e4	6.92e4					0.70	E
	4 24:40	1.14e6	1.56e6					0.73	E
	5 24:58	7.80e5	9.84e5					0.79	E
	6 26:20	2.18e5	2.90e5					0.75	E

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	23:02	5.77e7	7.26e7	8.02e6	1.00e7	2.582e3	2.363e3	0.80	
2,3,7,8-TCDD-13C	24:01	4.84e7	6.11e7	6.32e6	7.95e6	5.057e3	3.695e3	0.79	
2,3,7,8-TCDD-37Cl4	24:03	1.09e7		1.39e6		2.101e3	-----		
2,3,7,8-TCDD	24:03	ND	ND	ND	ND	1.243e3	6.773e2		
Other TCDD	1 19:49	4.61e4	5.36e4					0.86	

Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	30:34	6.76e7	4.35e7	1.02e7	6.58e6	2.100e4	1.452e3	1.56	
2,3,4,7,8-PeCDF-13C	32:07	7.03e7	4.43e7	1.25e7	7.89e6	1.218e4	5.322e3	1.59	
1,2,3,7,8-PeCDF	30:36	3.54e4	3.09e4	5.06e3	5.82e3	1.059e3	1.121e3	1.14	I
2,3,4,7,8-PeCDF	32:09	1.30e5	9.29e4	2.32e4	1.78e4	1.018e3	1.121e3	1.40	
Other PeCDF	1 28:53	2.58e5	1.72e5					1.50	

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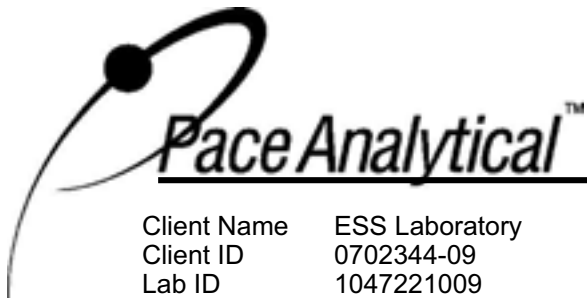
Client Name	ESS Laboratory	Injected By	CVS
Client ID	0702344-09	Instrument ID	10MSHR09 (P)
Lab ID	1047221009	GC Column ID	US5455214H
Filename	P70306B_05	ICAL Date	02/28/2007
Analyzed	03/07/2007 07:10		

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	2	25:52	5.28e5	3.25e5					1.62	
Ethers	1	29:11	2.13e5	1.37e5					1.55	E
	2	30:49	6.04e5	3.90e5					1.55	E
	3	33:11	9.52e4	6.06e4					1.57	E
	4	33:25	1.51e5	1.03e5					1.46	E
Penta-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C		32:35	5.49e7	3.45e7	1.00e7	6.28e6	4.092e3	1.700e2	1.59	
1,2,3,7,8-PeCDD		32:37	1.74e4	2.04e4	1.83e4	3.82e3	8.580e2	1.011e3	0.85	I
Other PeCDD	1	28:58	3.43e4	4.90e4					0.70	
	2	31:23	1.35e4	2.43e4					0.56	
	3	31:53	8.93e3	1.30e4					0.69	
Hexa-Furans:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C		36:11	3.06e7	6.02e7	7.29e6	1.39e7	1.506e3	1.625e3	0.51	
1,2,3,6,7,8-HxCDF-13C		36:20	3.32e7	6.48e7	7.46e6	1.44e7	9.358e2	1.212e3	0.51	
2,3,4,6,7,8-HxCDF-13C		37:04	3.14e7	6.05e7	7.62e6	1.48e7	2.199e4	2.063e4	0.52	
1,2,3,7,8,9-HxCDF-13C		38:04	2.85e7	5.46e7	6.83e6	1.33e7	4.404e3	3.599e3	0.52	
1,2,3,4,7,8-HxCDF		36:12	8.71e4	8.26e4	2.05e4	2.17e4	8.553e2	7.026e2	1.05	E
1,2,3,6,7,8-HxCDF		36:21	5.56e4	4.39e4	1.32e4	9.22e3	4.935e2	7.340e2	1.27	
2,3,4,6,7,8-HxCDF		37:04	6.94e4	5.99e4	1.97e4	1.37e4	7.245e2	7.026e2	1.16	
1,2,3,7,8,9-HxCDF		38:07	2.76e4	1.77e4	4.56e3	3.99e3	5.851e2	7.026e2	1.56	I
Other HxCDF	1	34:50	2.86e5	2.26e5					1.27	
	2	35:34	1.41e5	1.19e5					1.18	
	3	36:04	3.12e4	2.58e4					1.21	
Ethers	1	35:38	1.22e5	9.77e4					1.25	E
	2	36:12	8.71e4	8.26e4					1.05	E
	3	36:45	4.86e4	4.25e4					1.14	E
Hexa-Dioxins:		RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C		37:15	4.04e7	3.23e7	9.99e6	7.93e6	5.487e4	4.439e4	1.25	
1,2,3,6,7,8-HxCDD-13C		37:22	4.55e7	3.65e7	1.07e7	8.74e6	5.396e4	9.326e2	1.25	
1,2,3,7,8,9-HxCDD-13C		37:42	5.11e7	4.11e7	1.09e7	8.74e6	6.186e3	2.603e4	1.24	
1,2,3,4,7,8-HxCDD		37:15	1.58e4	1.12e4	4.38e3	2.33e3	1.633e3	9.902e2	1.41	
1,2,3,6,7,8-HxCDD		37:24	2.05e4	1.77e4	4.71e3	4.99e3	2.599e3	1.427e3	1.16	
1,2,3,7,8,9-HxCDD		37:43	2.13e4	1.39e4	3.79e3	3.28e3	9.716e2	7.235e2	1.53	I
Other HxCDD	1	35:22	4.49e4	3.73e4					1.20	

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Client Name	ESS Laboratory	Injected By	CVS
Client ID	0702344-09	Instrument ID	10MSHR09 (P)
Lab ID	1047221009	GC Column ID	US5455214H
Filename	P70306B_05	ICAL Date	02/28/2007
Analyzed	03/07/2007 07:10		

	2	36:27	6.70e4	5.54e4					1.21	
Hepta-Furans:										
	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code	
1,2,3,4,6,7,8-HpCDF-13C	39:47	2.44e7	5.39e7	6.34e6	1.40e7	1.107e4	4.193e3	0.45		
1,2,3,4,7,8,9-HpCDF-13C	41:26	1.93e7	4.49e7	5.09e6	1.15e7	1.107e4	1.114e4	0.43		
1,2,3,4,6,7,8-HpCDF	39:48	5.53e5	5.14e5	1.49e5	1.41e5	1.290e3	9.979e2	1.08		
1,2,3,4,7,8,9-HpCDF	41:26	2.62e4	2.31e4	4.35e3	4.53e3	1.290e3	7.715e2	1.14		
Other HpCDF	1	40:17	1.90e5	1.92e5				0.99		
Hepta-Dioxins:										
	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code	
1,2,3,4,6,7,8-HpCDD-13C	40:56	3.87e7	3.66e7	1.05e7	9.94e6	1.212e3	8.056e3	1.06		
1,2,3,4,6,7,8-HpCDD	40:57	1.44e5	1.51e5	3.87e4	4.42e4	8.286e2	1.008e3	0.95		
Other HpCDD	1	40:07	1.43e5	1.46e5				0.98		
Octa-Furans:										
	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code	
OCDF	44:04	1.61e5	1.88e5	4.08e4	4.27e4	8.125e2	1.618e3	0.86		
Octa-Dioxins:										
	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code	
OCDD-13C	43:53	5.33e7	6.02e7	1.34e7	1.52e7	3.461e3	7.303e2	0.89		
OCDD	43:54	6.32e5	7.32e5	1.63e5	1.97e5	9.628e2	8.868e2	0.86		

## REPORT OF LABORATORY ANALYSIS

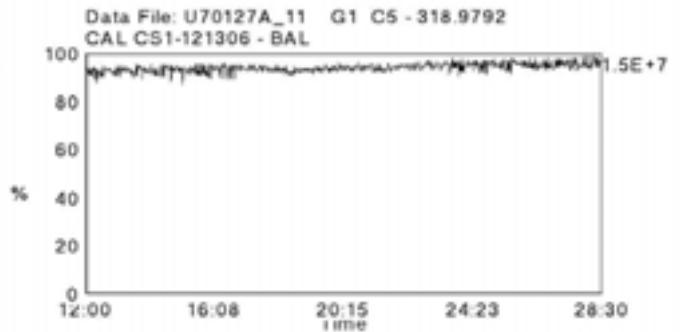
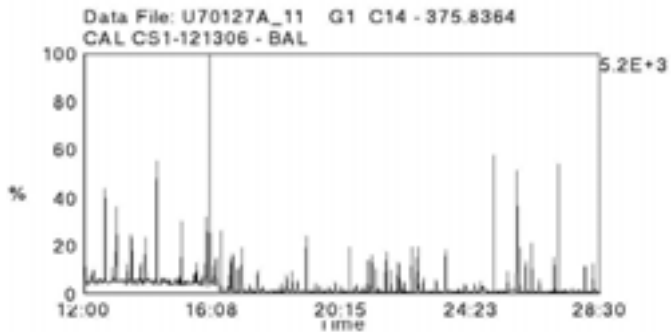
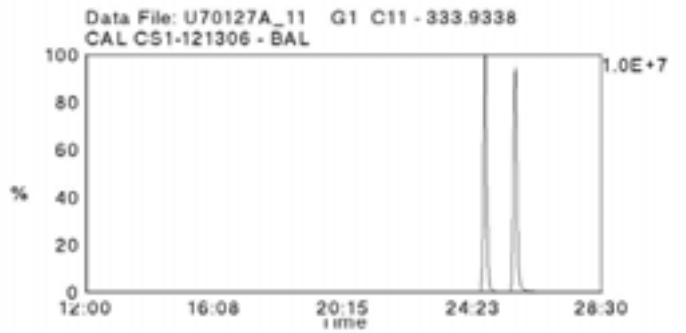
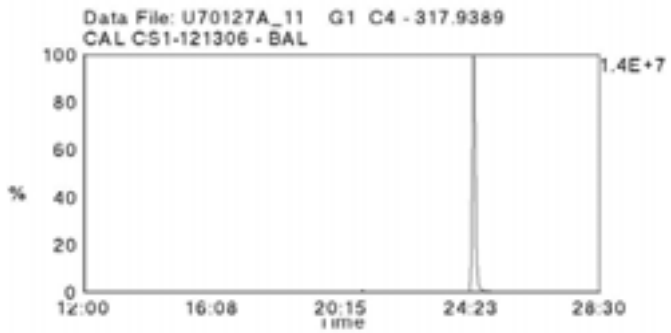
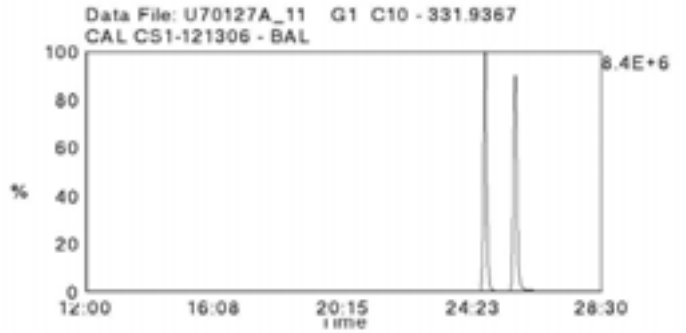
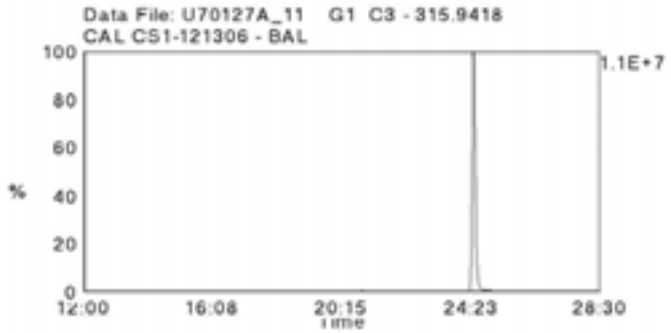
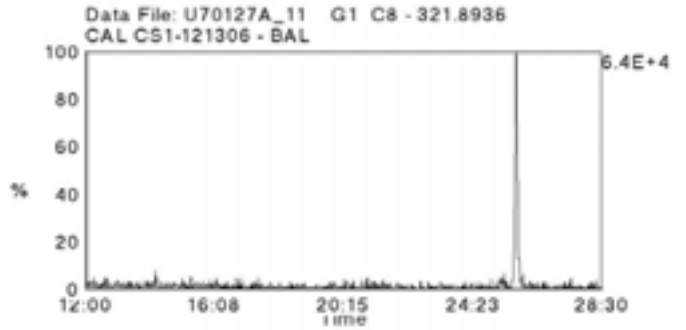
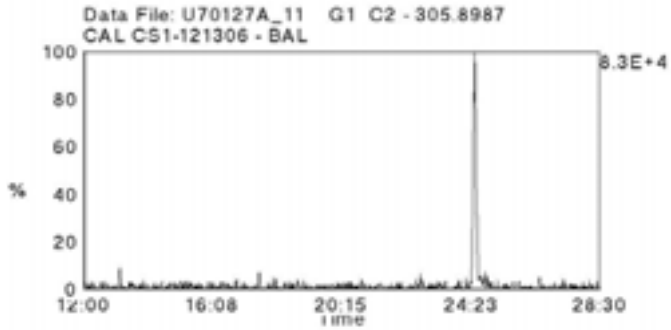
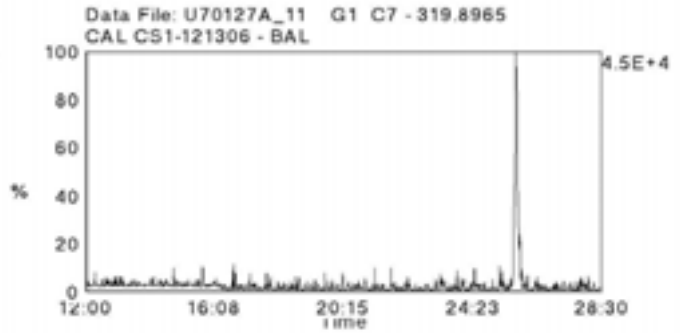
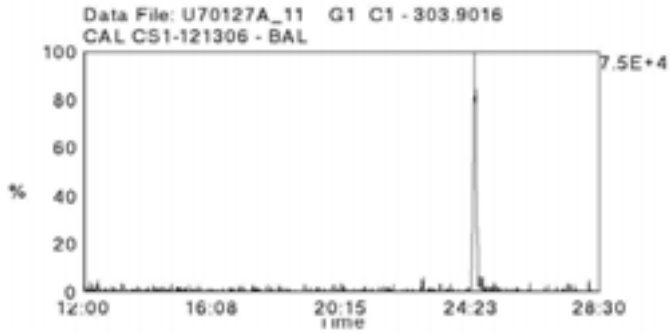
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# Appendix E

## Calibration Raw Data

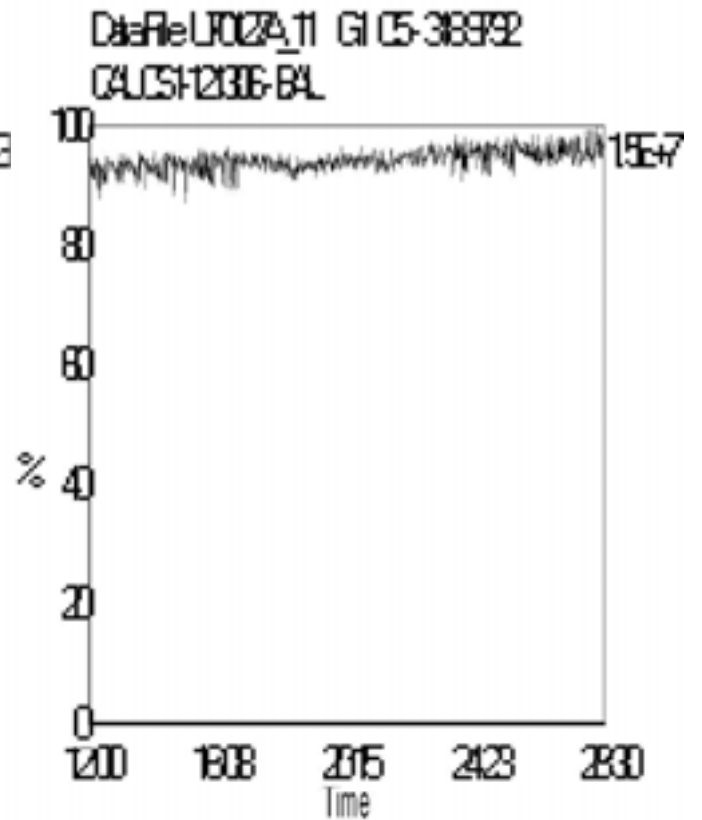
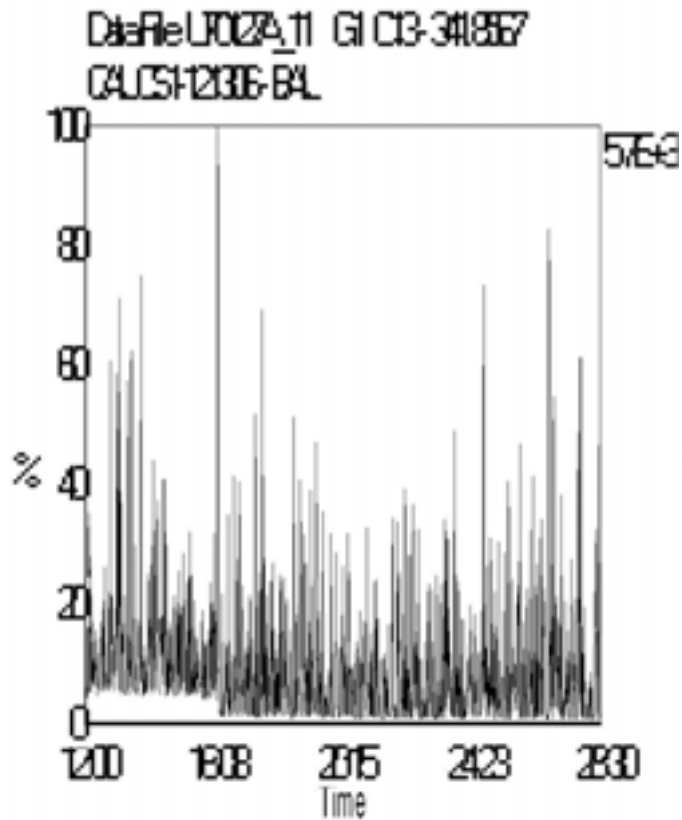
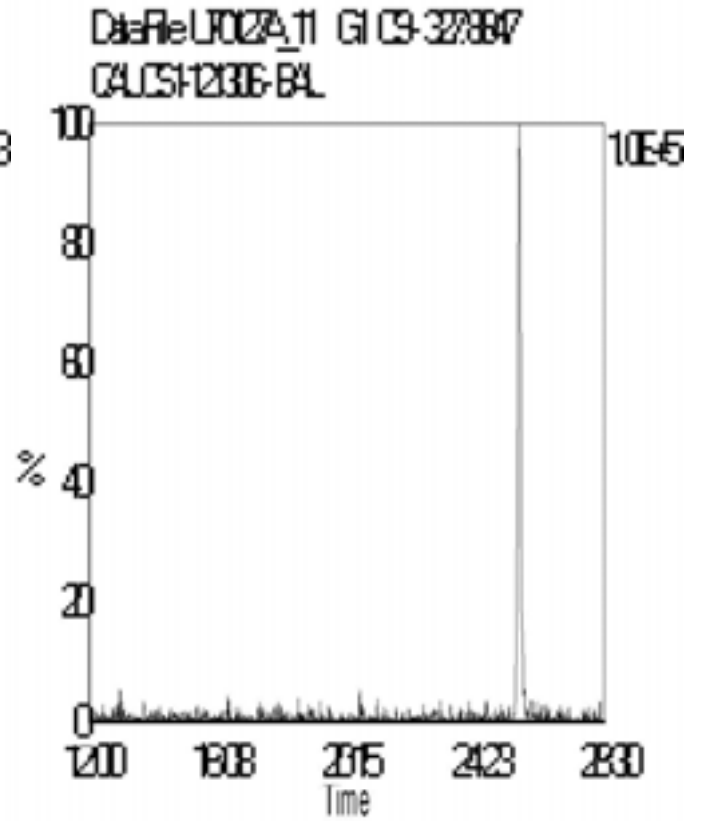
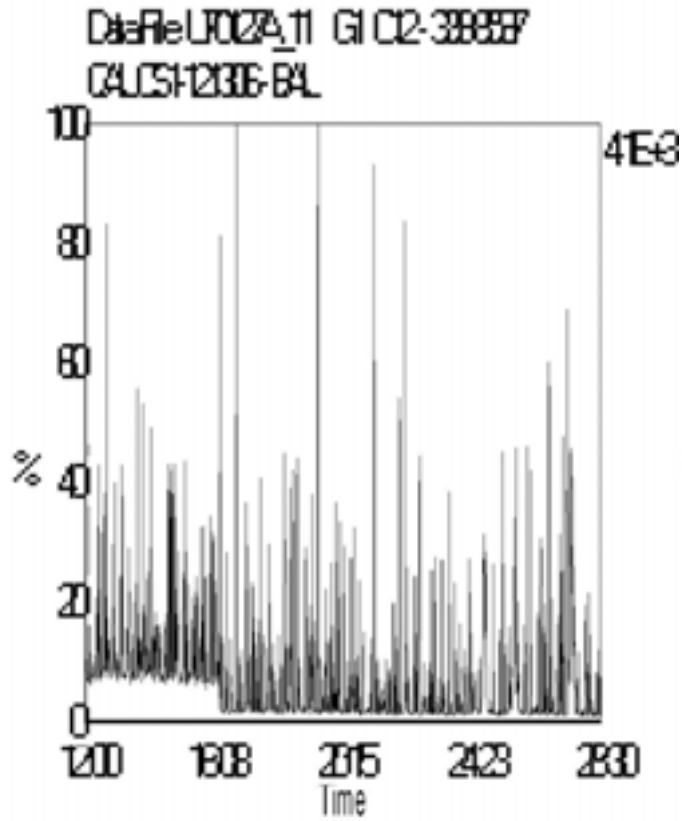
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Date Acquired: 1/27/2007  
Sample Description: CAL CS1-121306 - BAL

Lab Sample ID: CS1-032406  
Client Sample ID: CS-1  
Instrument: 10MSHR06 (U)



Data File Name: U70127A\_11  
Date Acquired: 1/27/2007  
Sample Description: CAL CS1-121306 - BAL

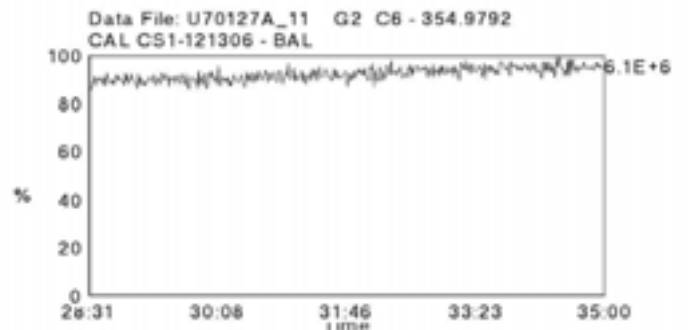
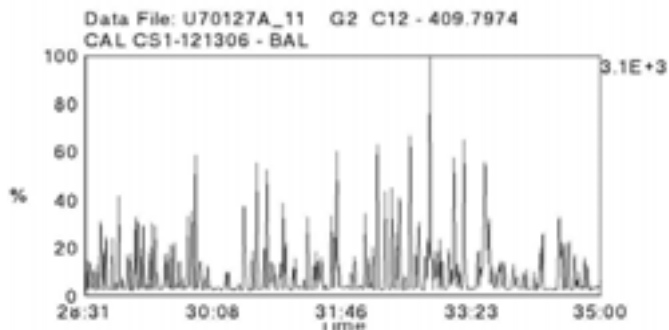
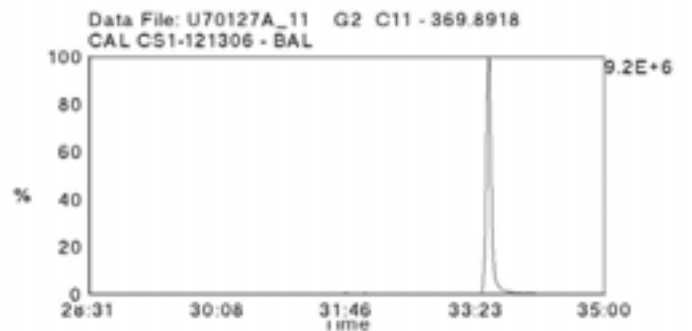
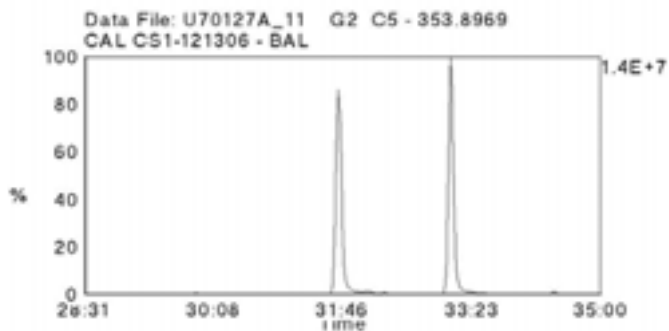
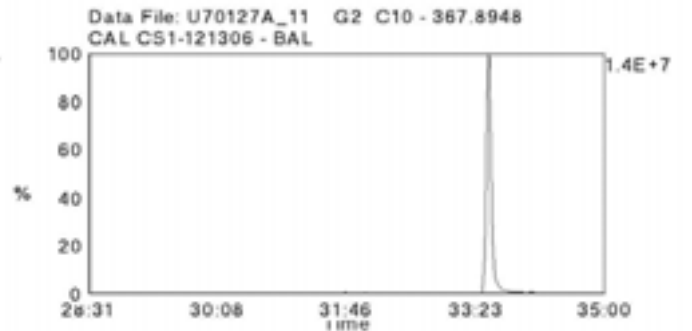
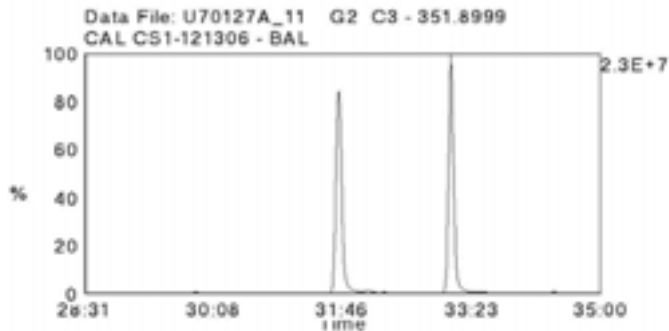
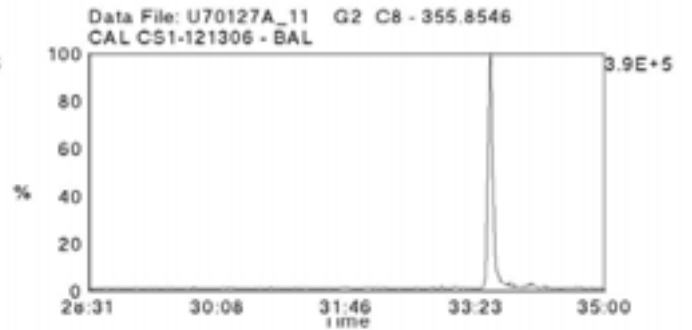
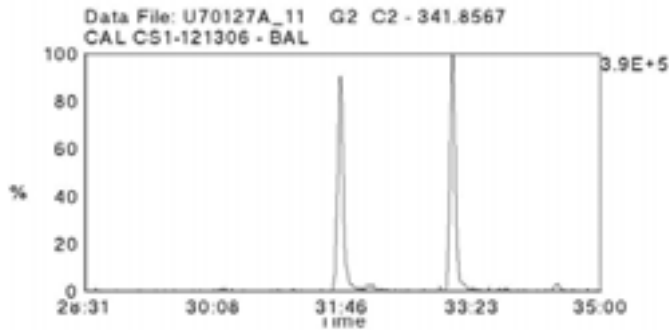
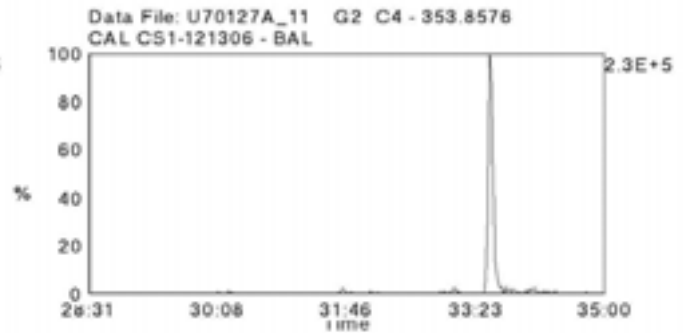
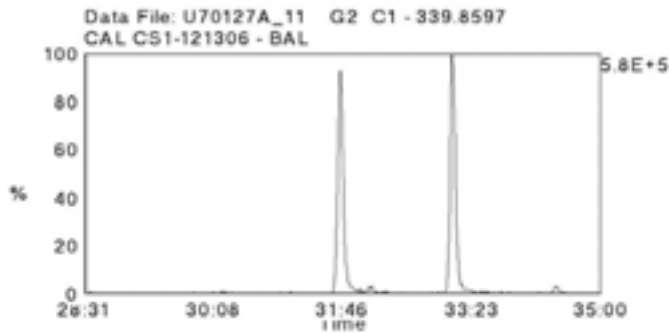
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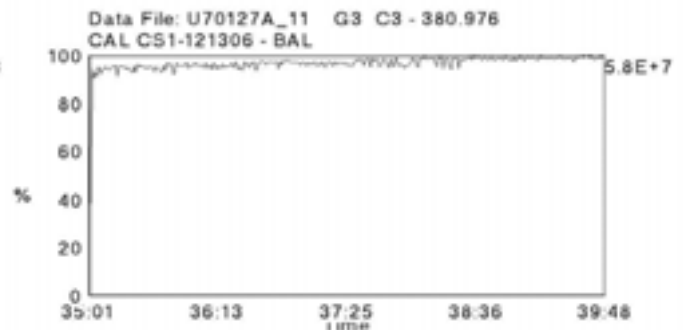
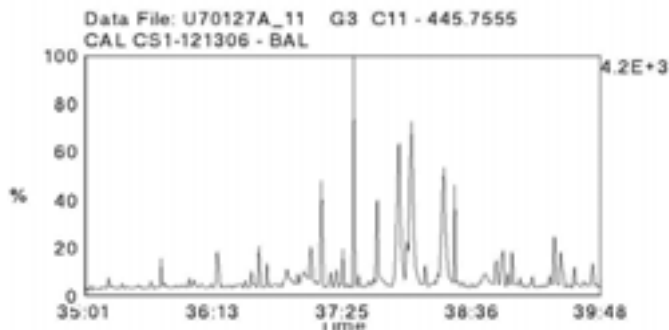
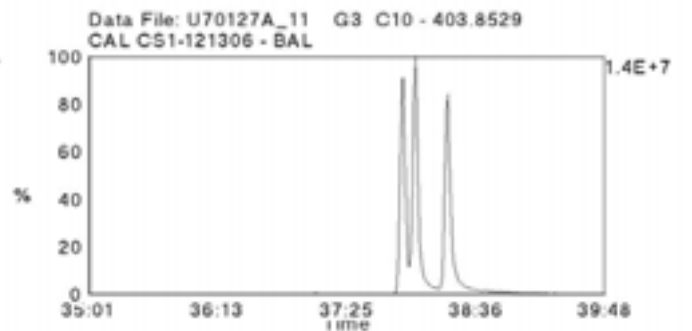
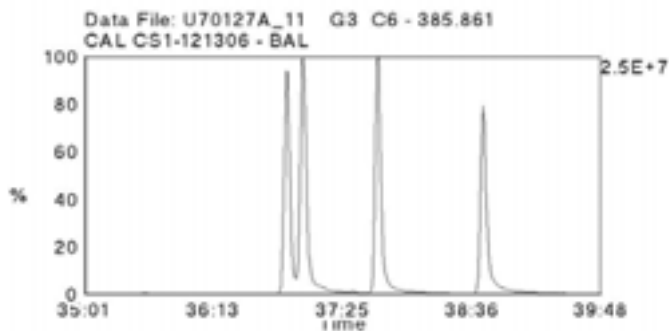
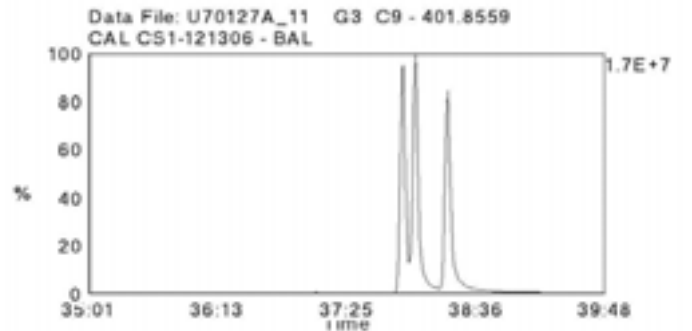
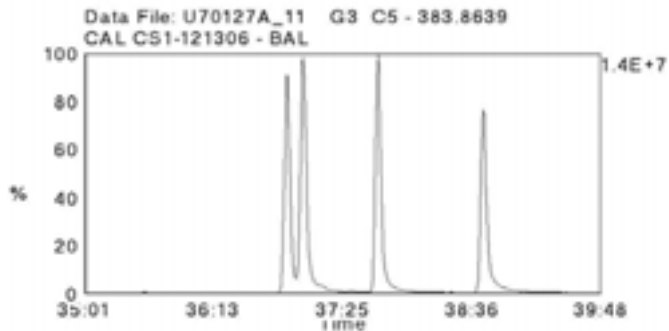
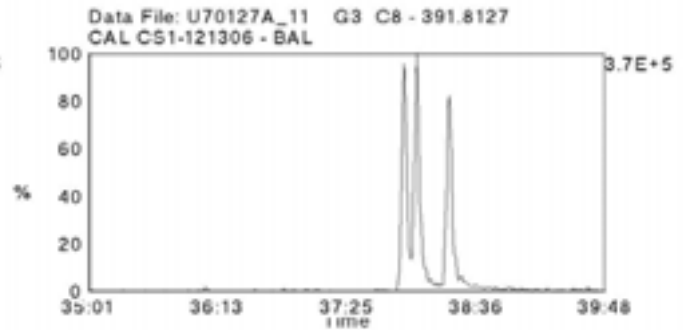
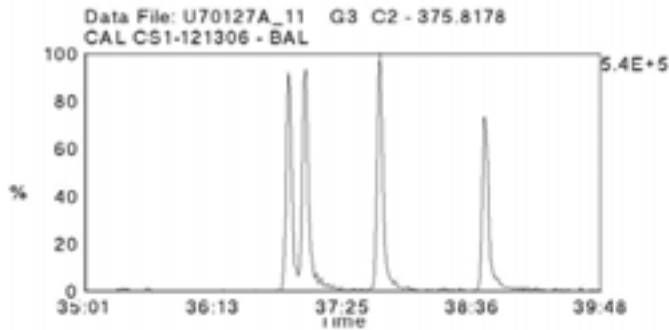
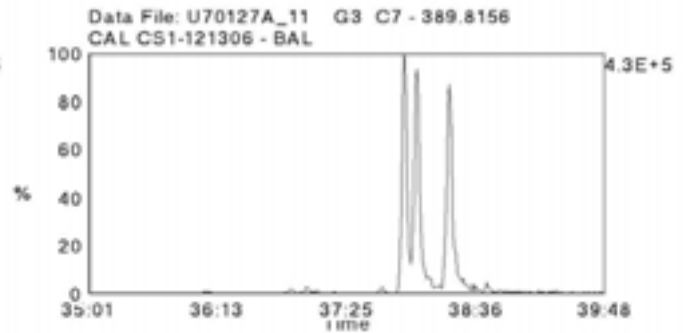
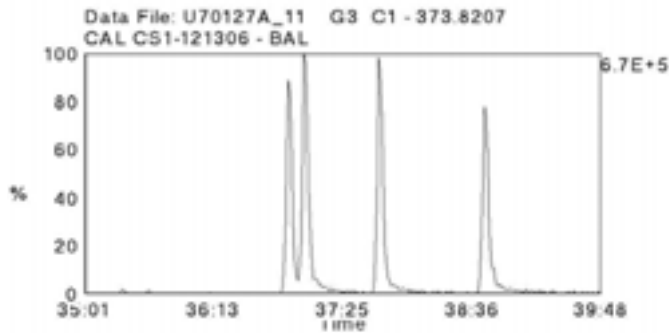
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Sample Description: CAL CS1-121306 - BAL

Lab Sample ID: CS1-032406  
Client Sample ID: CS-1  
Instrument: 10MSHR06 (U)



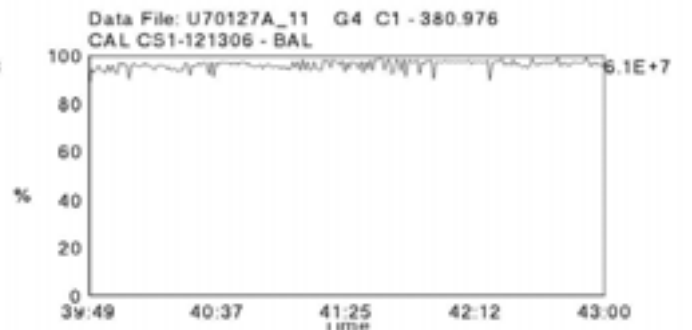
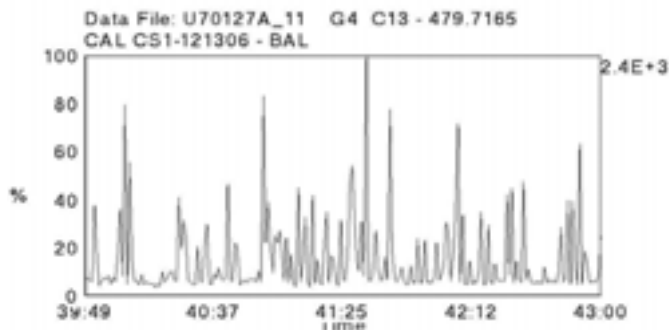
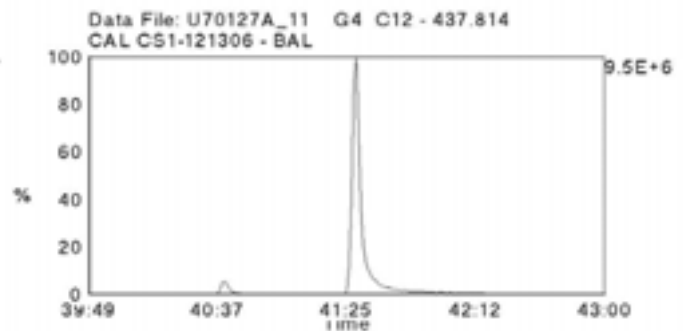
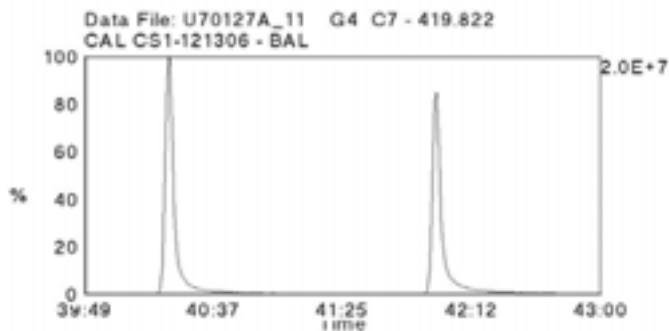
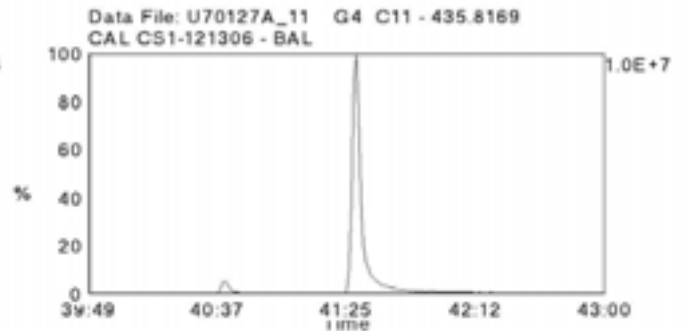
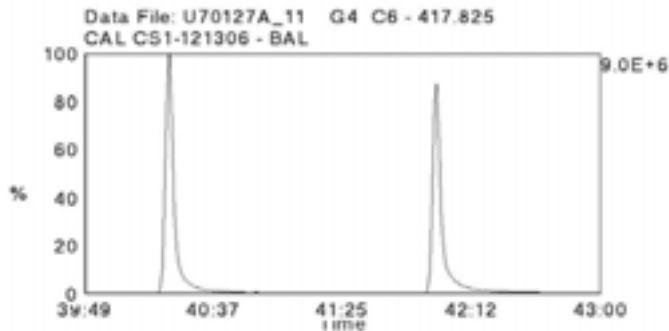
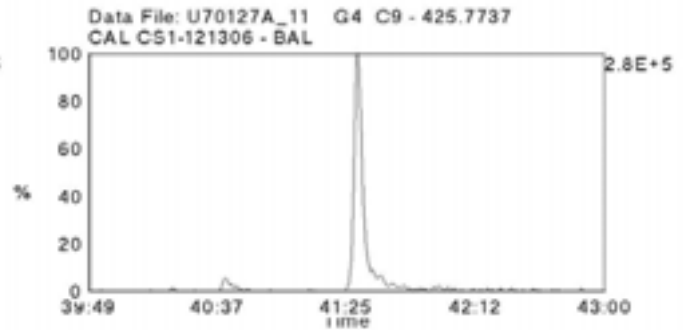
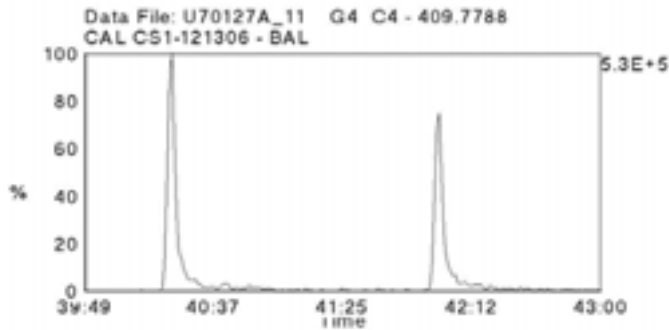
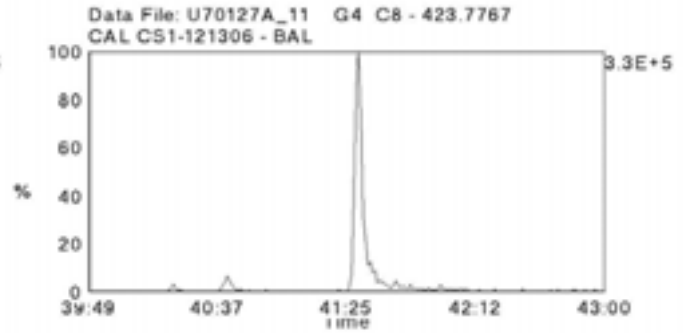
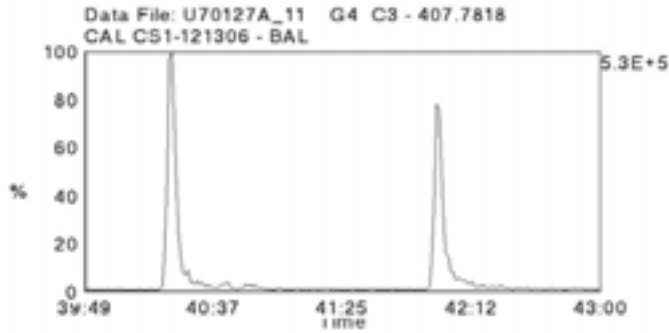
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Instrument: 10MSHR06 (U)



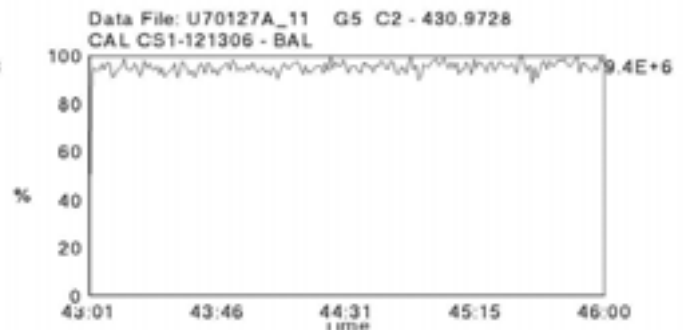
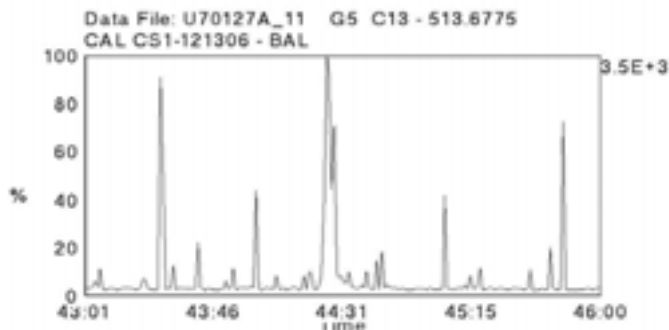
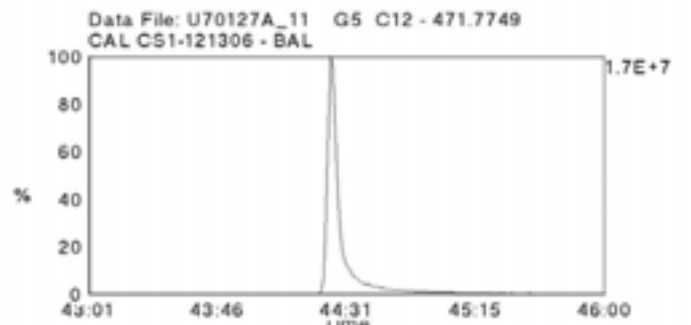
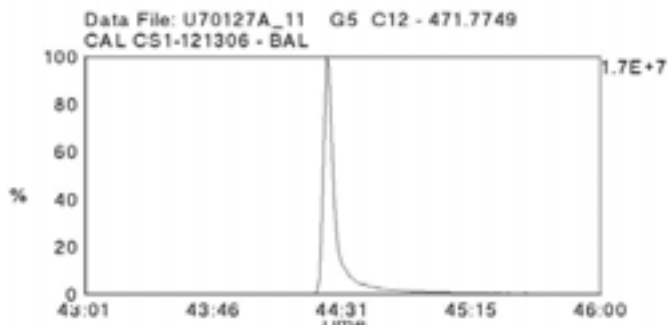
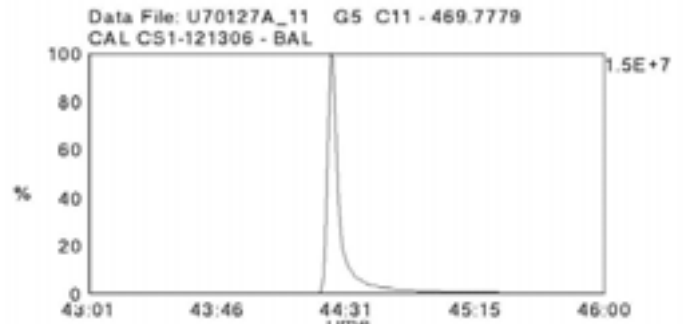
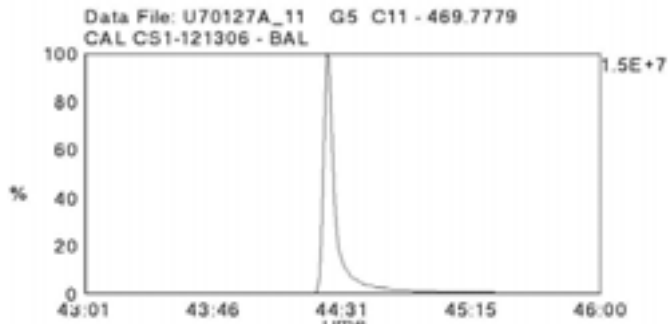
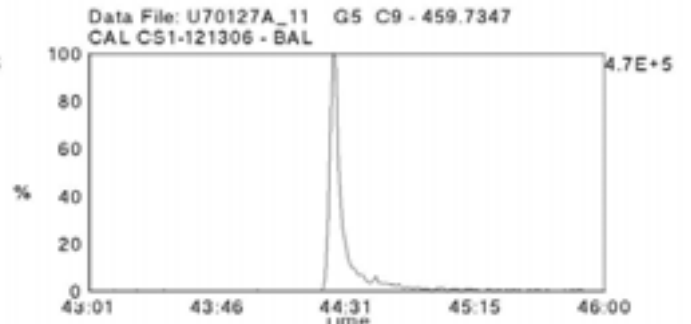
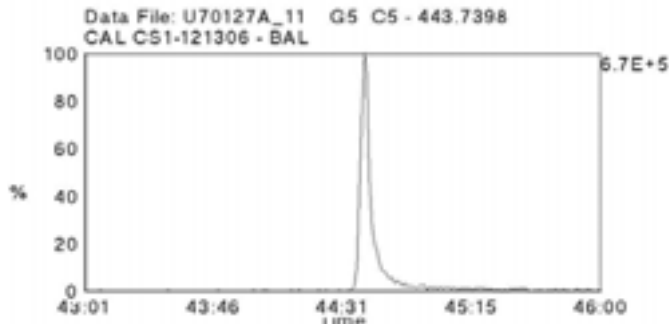
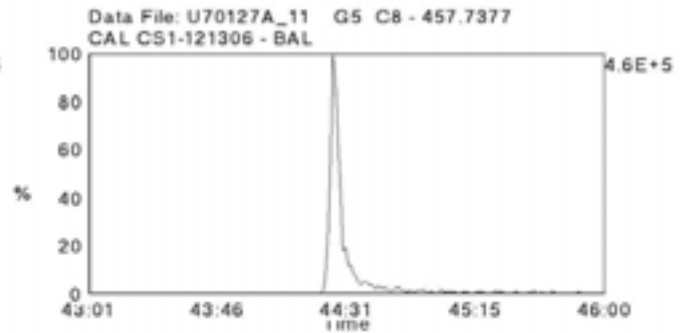
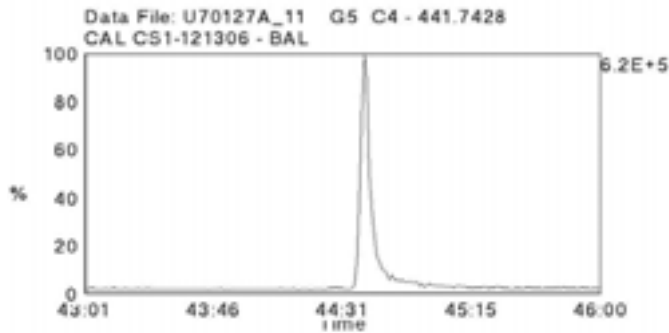
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Lab Sample ID: CS1-032406  
Client Sample ID: CS-1  
Instrument: 10MSHR06 (U)



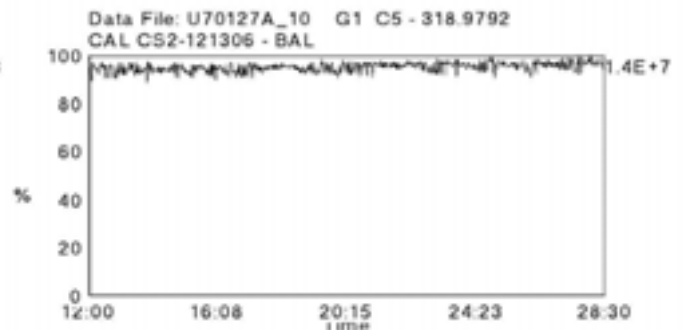
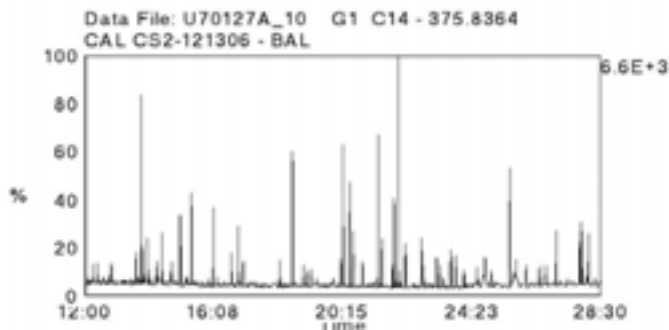
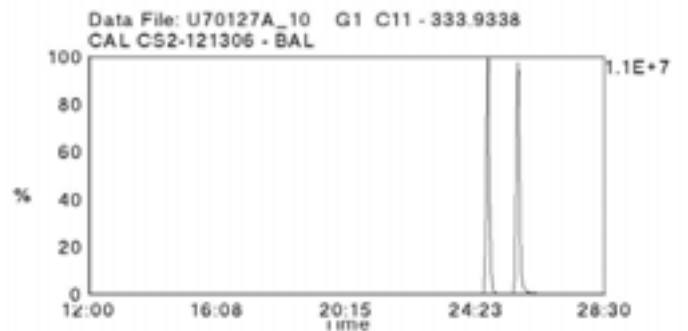
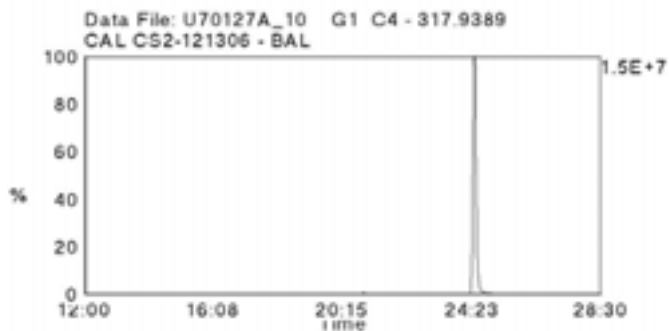
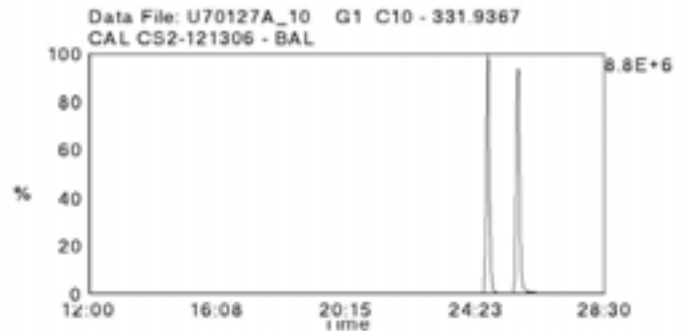
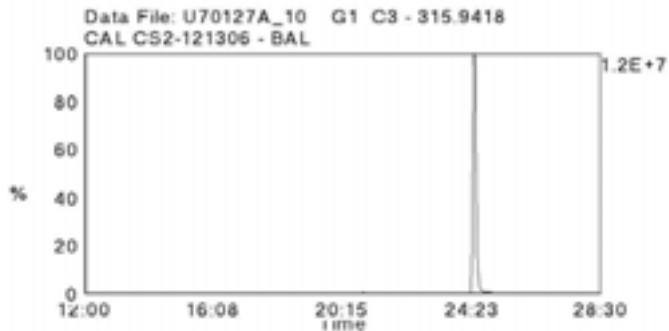
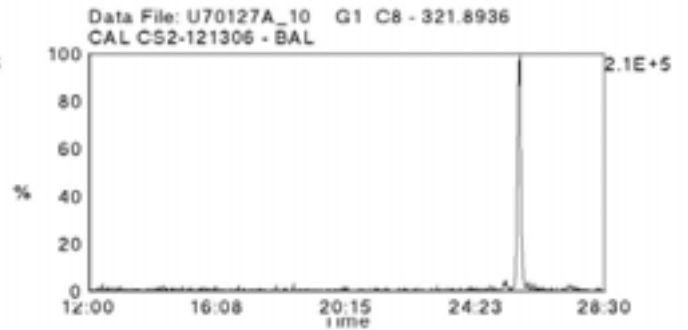
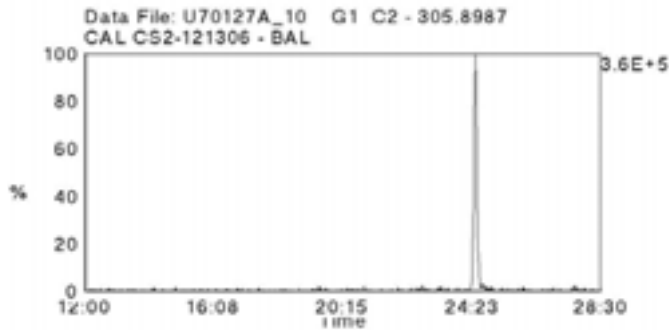
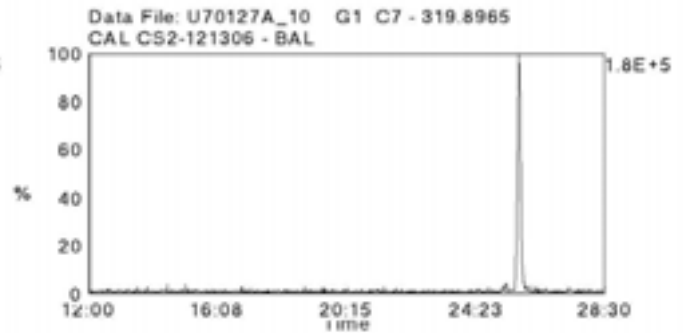
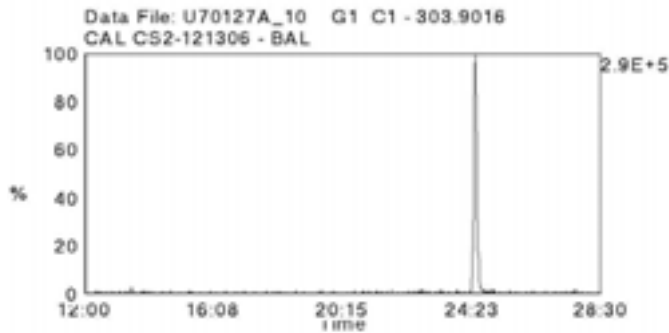
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Sample Description: CAL CS1-121306 - BAL

Lab Sample ID: CS1-032406  
Client Sample ID: CS-1  
Instrument: 10MSHR06 (U)



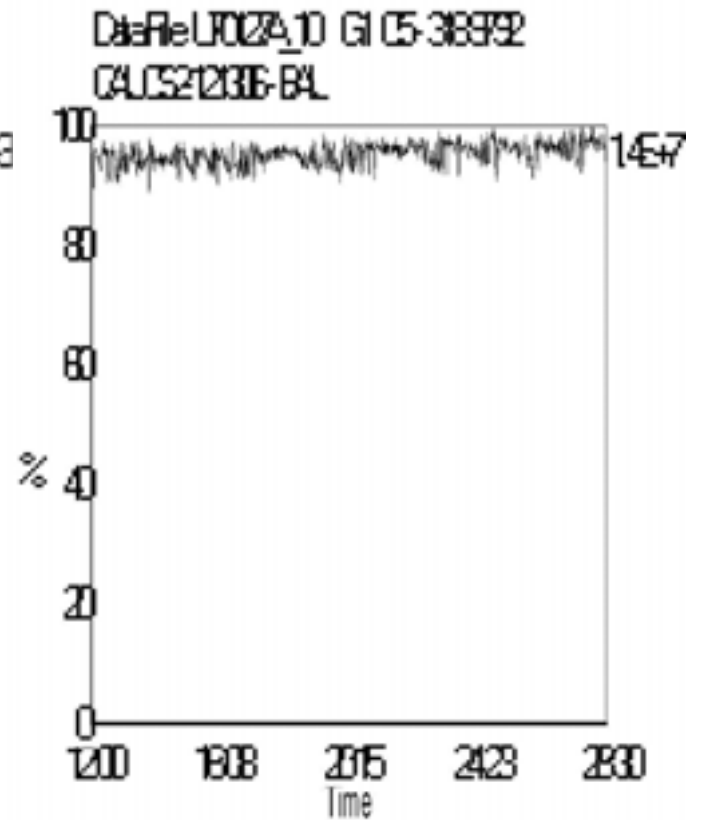
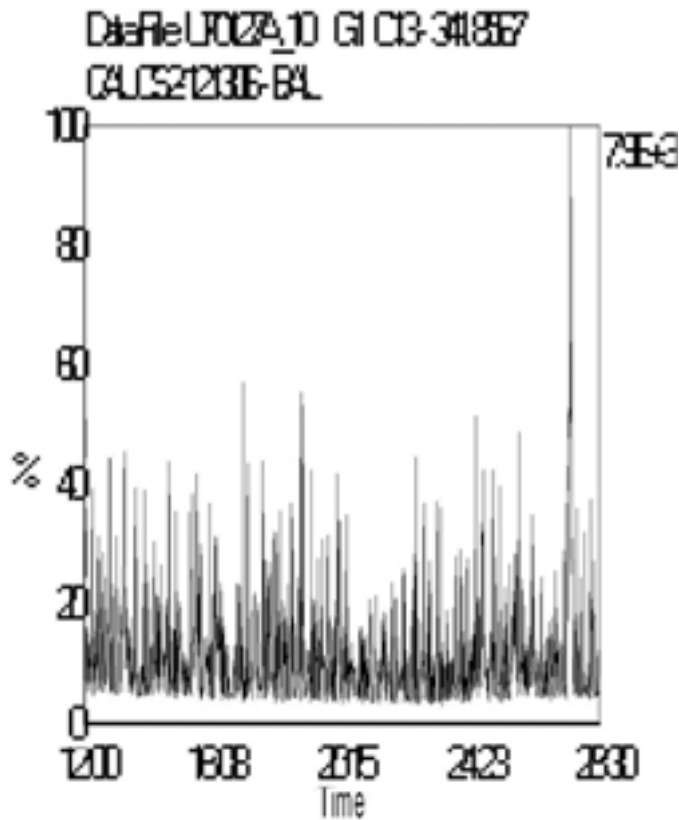
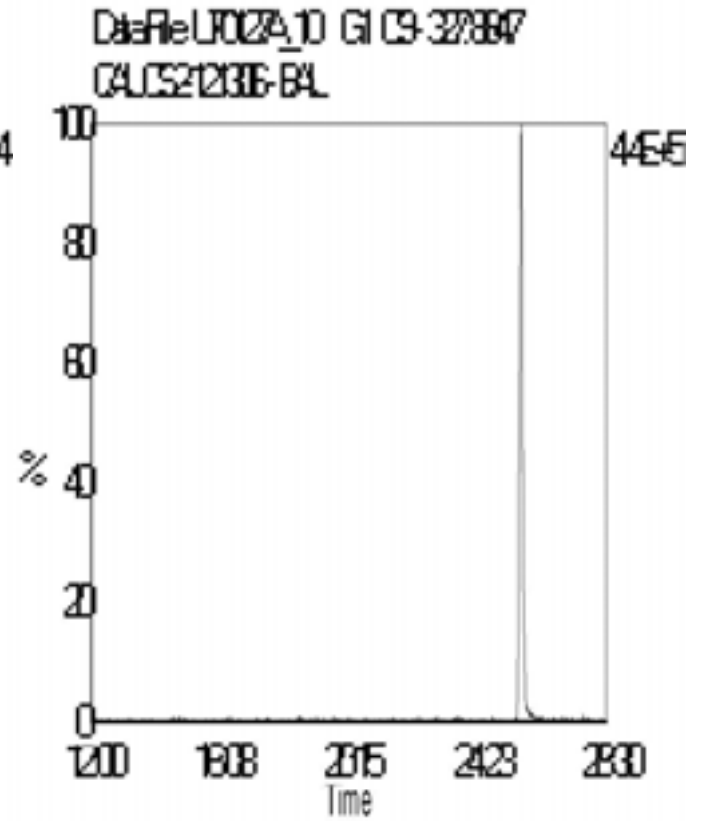
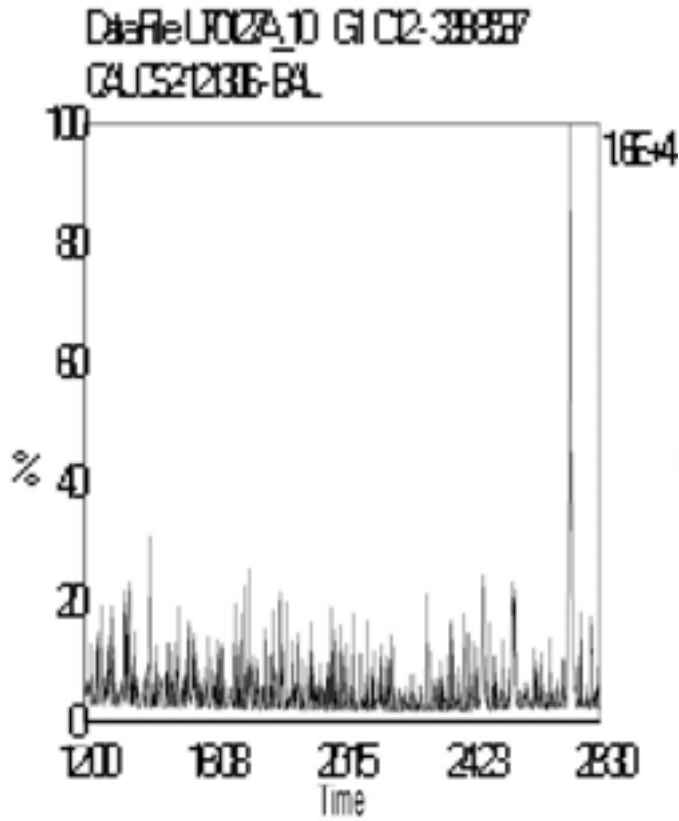
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Sample Description: CAL CS2-121306 - BAL

Lab Sample ID: CS2-032406  
Client Sample ID: CS-2  
Instrument: 10MSHR06 (U)



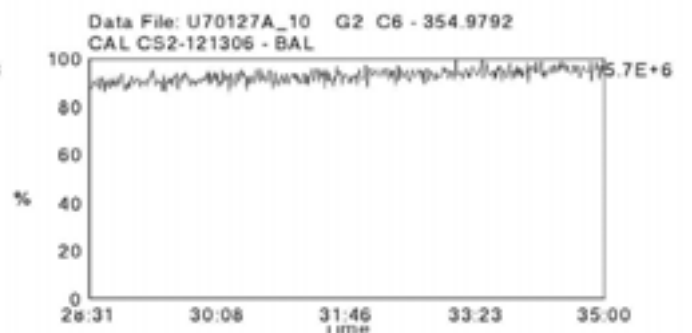
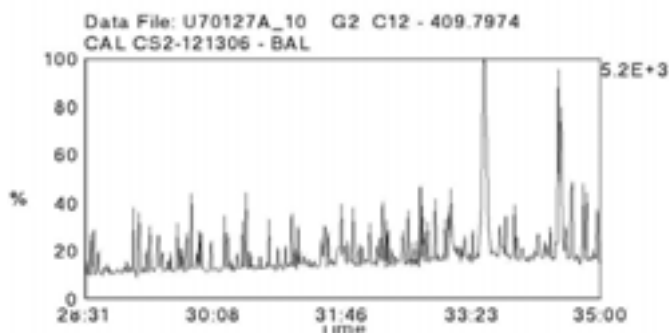
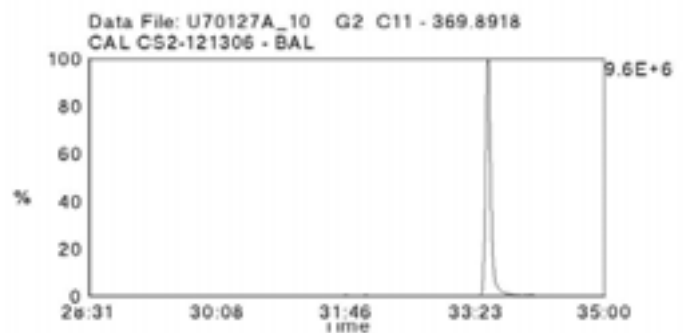
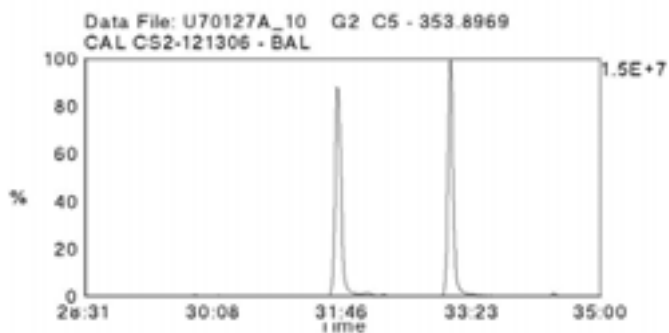
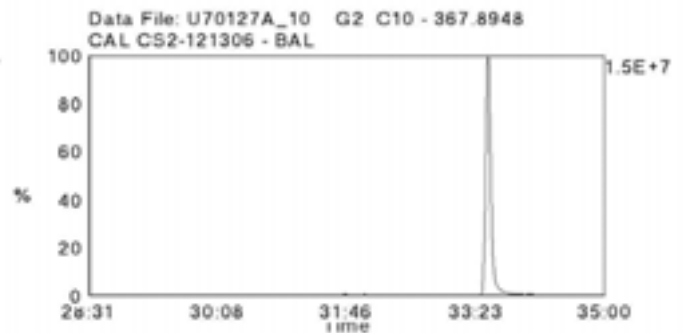
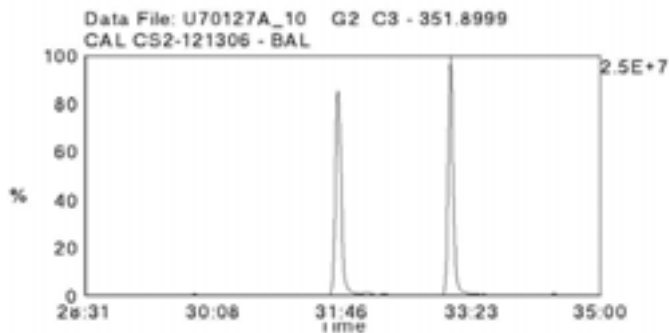
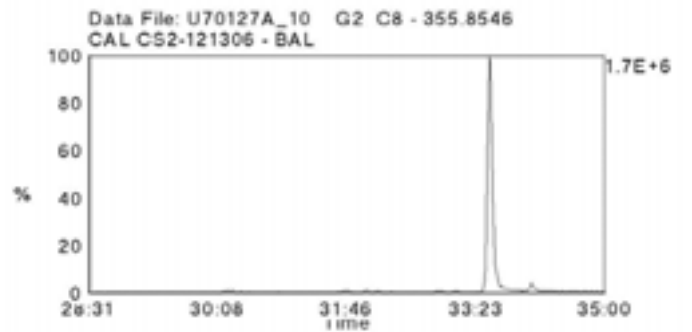
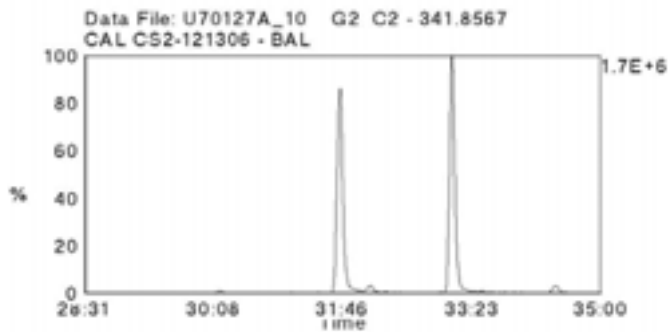
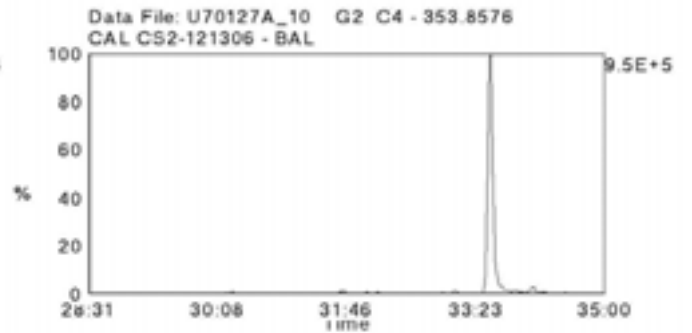
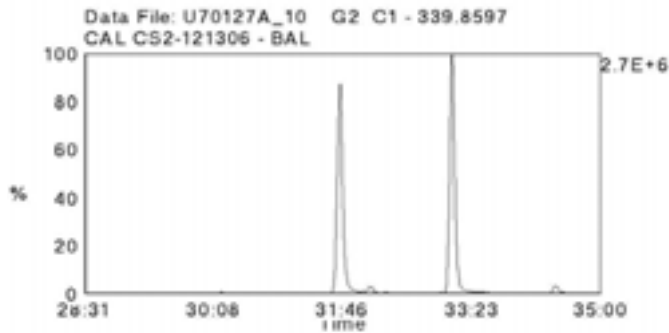
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Sample Description: CAL CS2-121306 - BAL

Lab Sample ID: CS2-032406  
Client Sample ID: CS-2  
Instrument: 10MSHR06 (U)



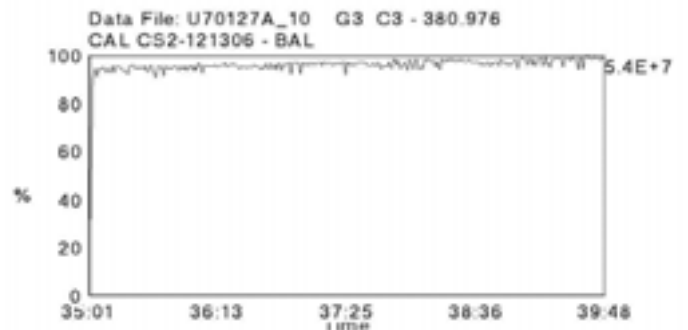
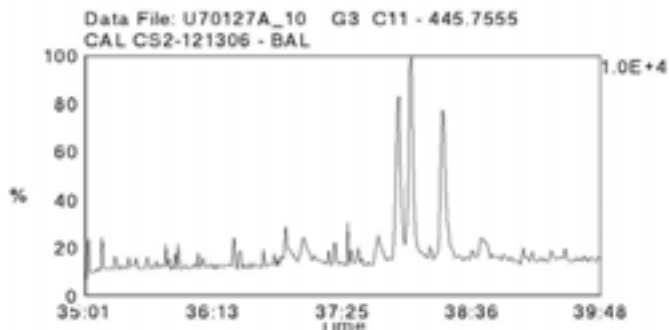
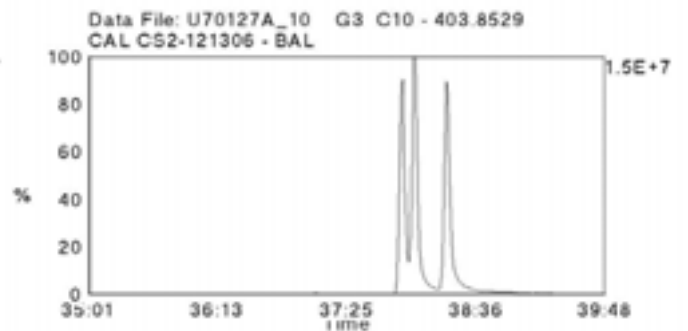
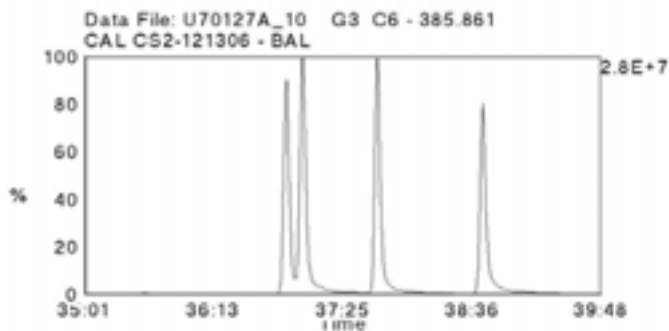
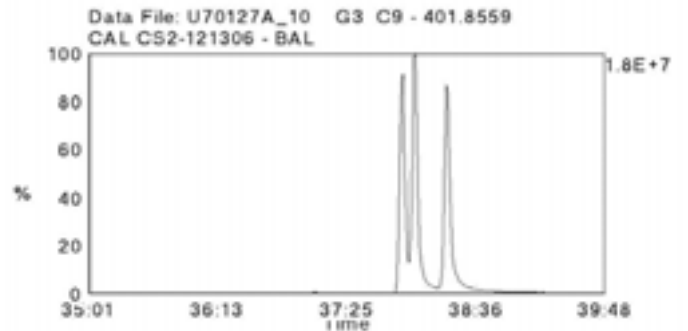
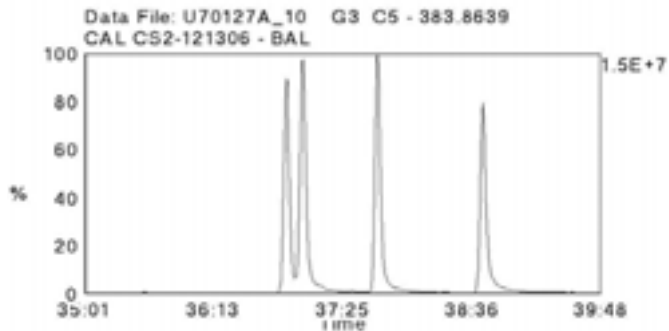
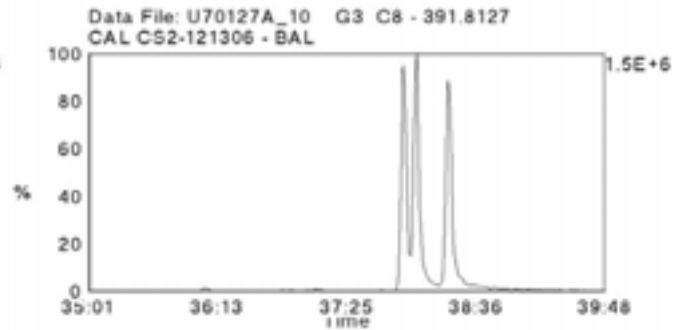
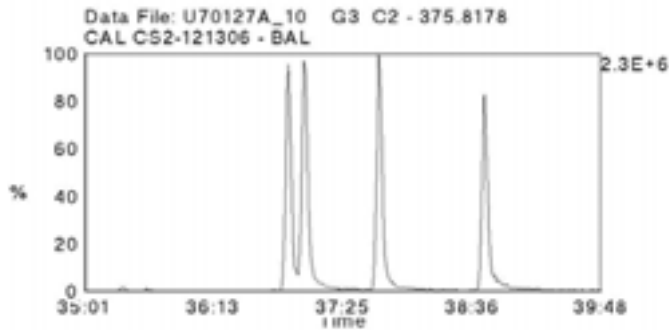
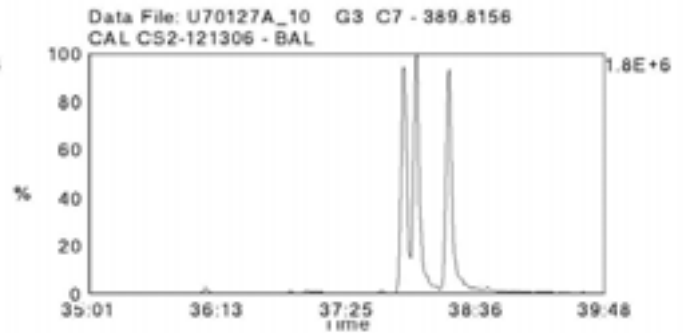
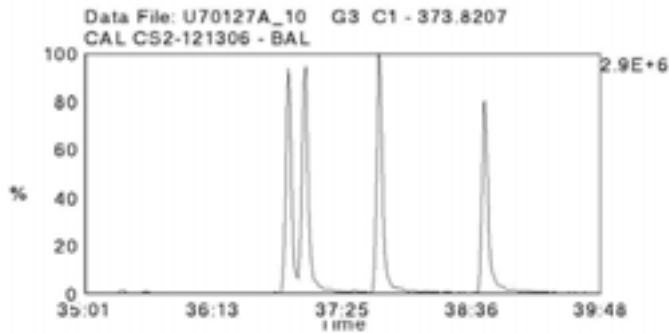
Data File Name: U70127A\_10  
Date Acquired: 1/27/2007  
Sample Description: CAL CS2-121306 - BAL

Lab Sample ID: CS2-032406  
Client Sample ID: CS-2  
Instrument: 10MSHR06 (U)



Data File Name: U70127A\_10  
Date Acquired: 1/27/2007  
Sample Description: CAL CS2-121306 - BAL

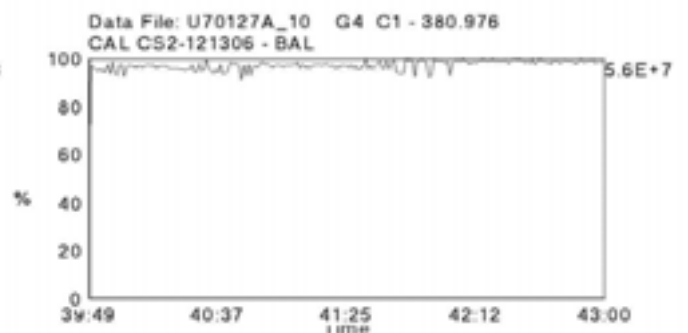
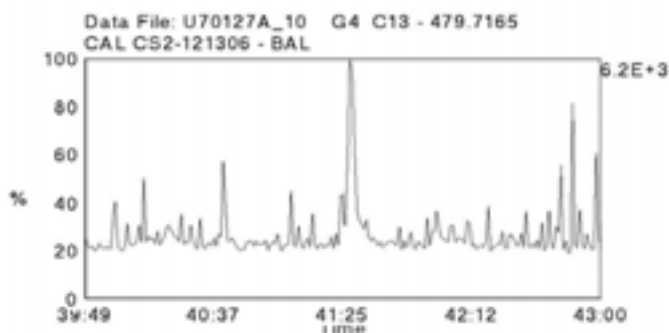
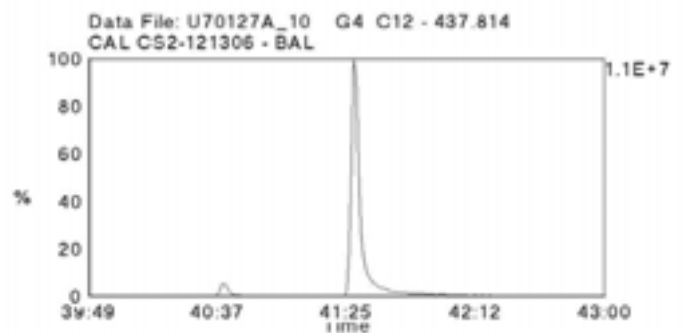
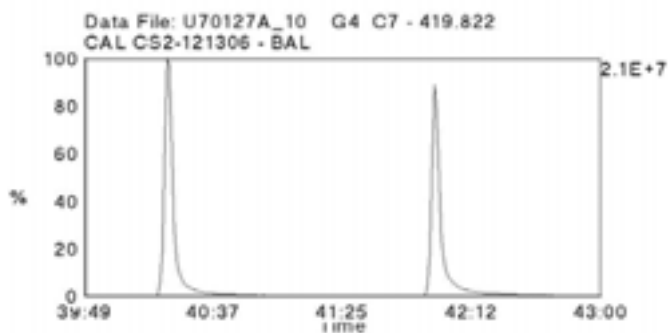
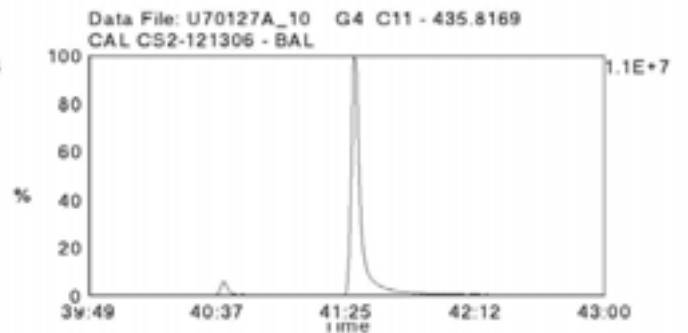
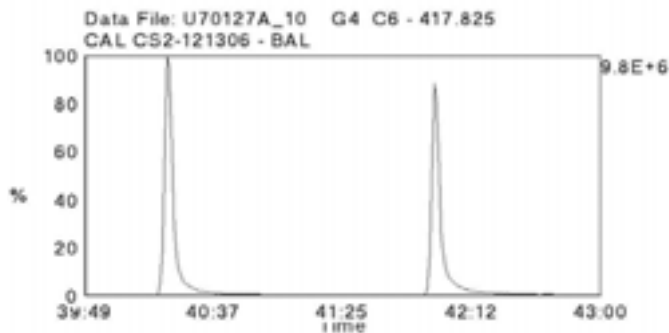
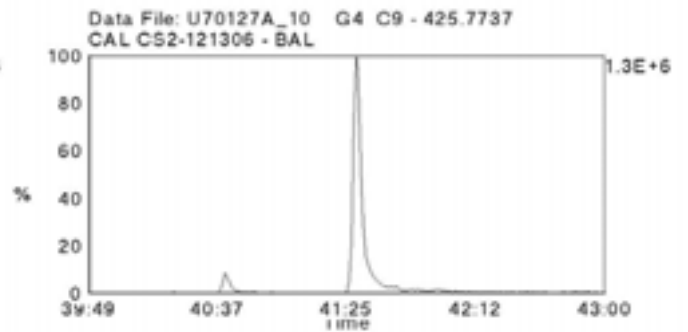
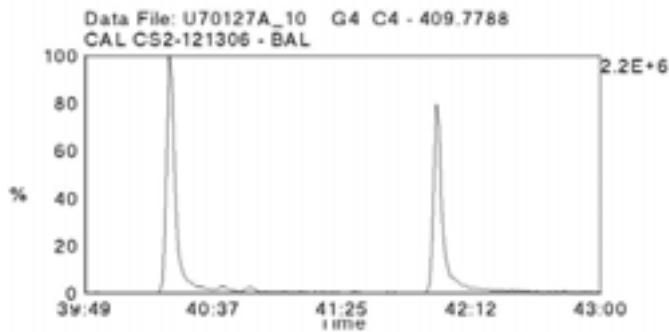
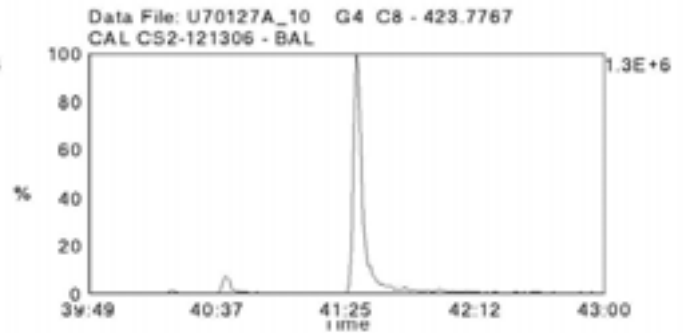
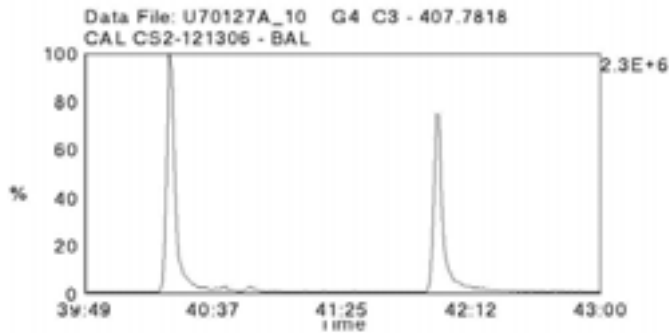
Lab Sample ID: CS2-032406  
Client Sample ID: CS-2  
Instrument: 10MSHR06 (U)





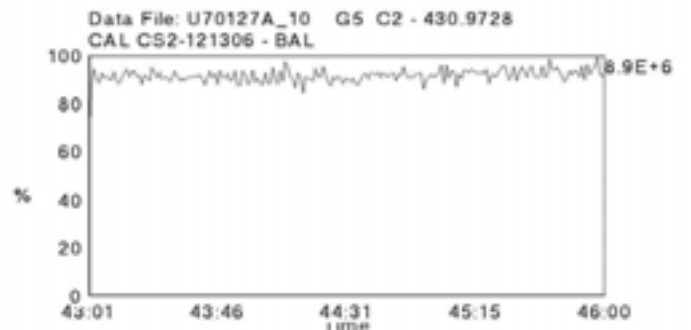
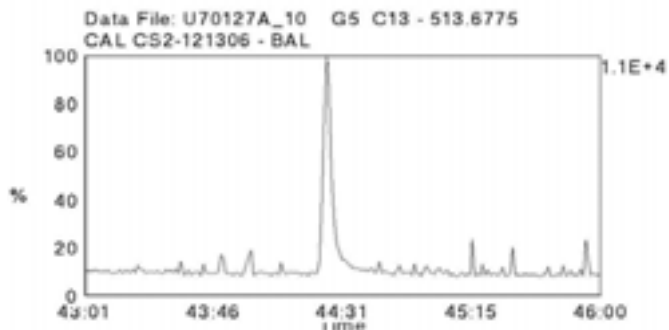
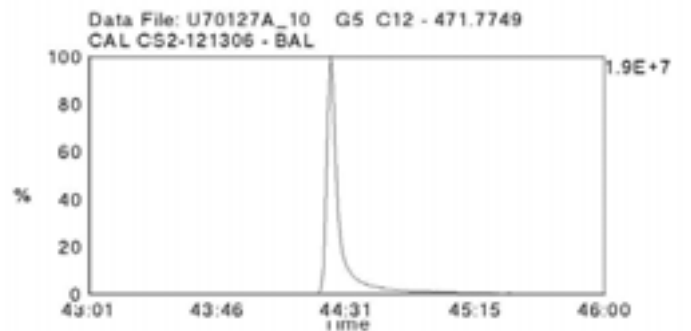
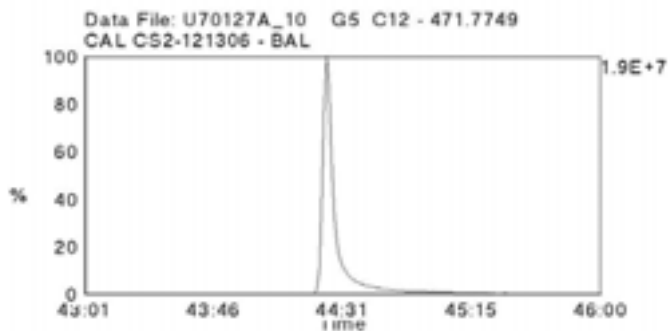
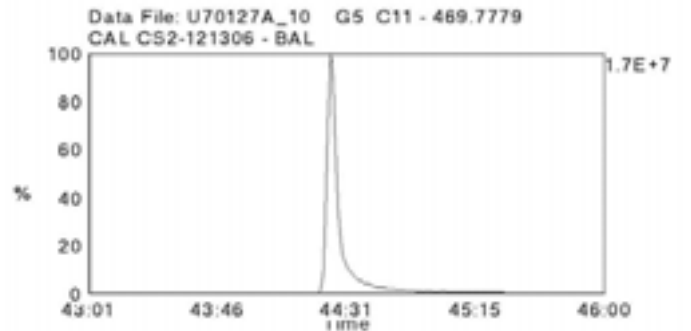
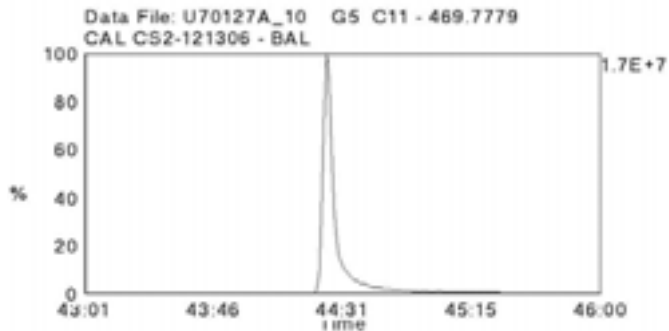
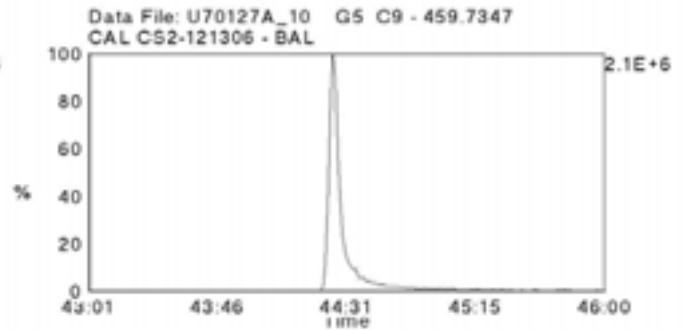
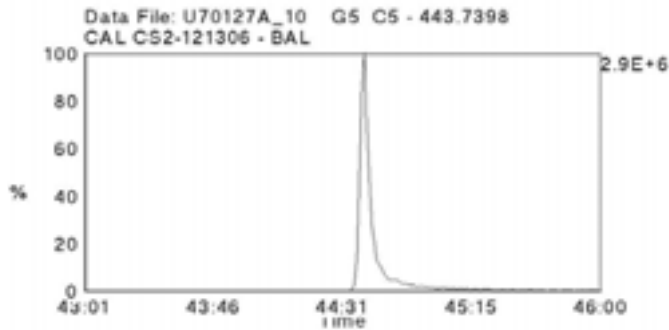
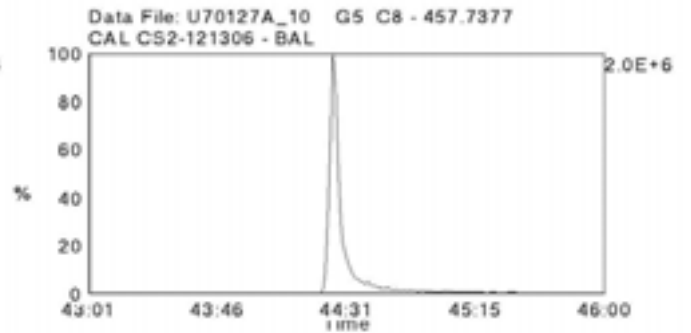
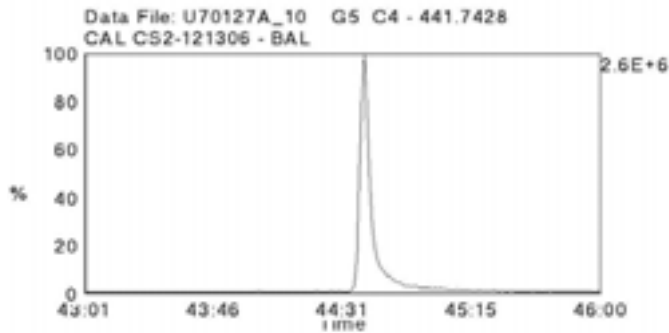
Data File Name: U70127A\_10  
Date Acquired: 1/27/2007  
Sample Description: CAL CS2-121306 - BAL

Lab Sample ID: CS2-032406  
Client Sample ID: CS-2  
Instrument: 10MSHR06 (U)



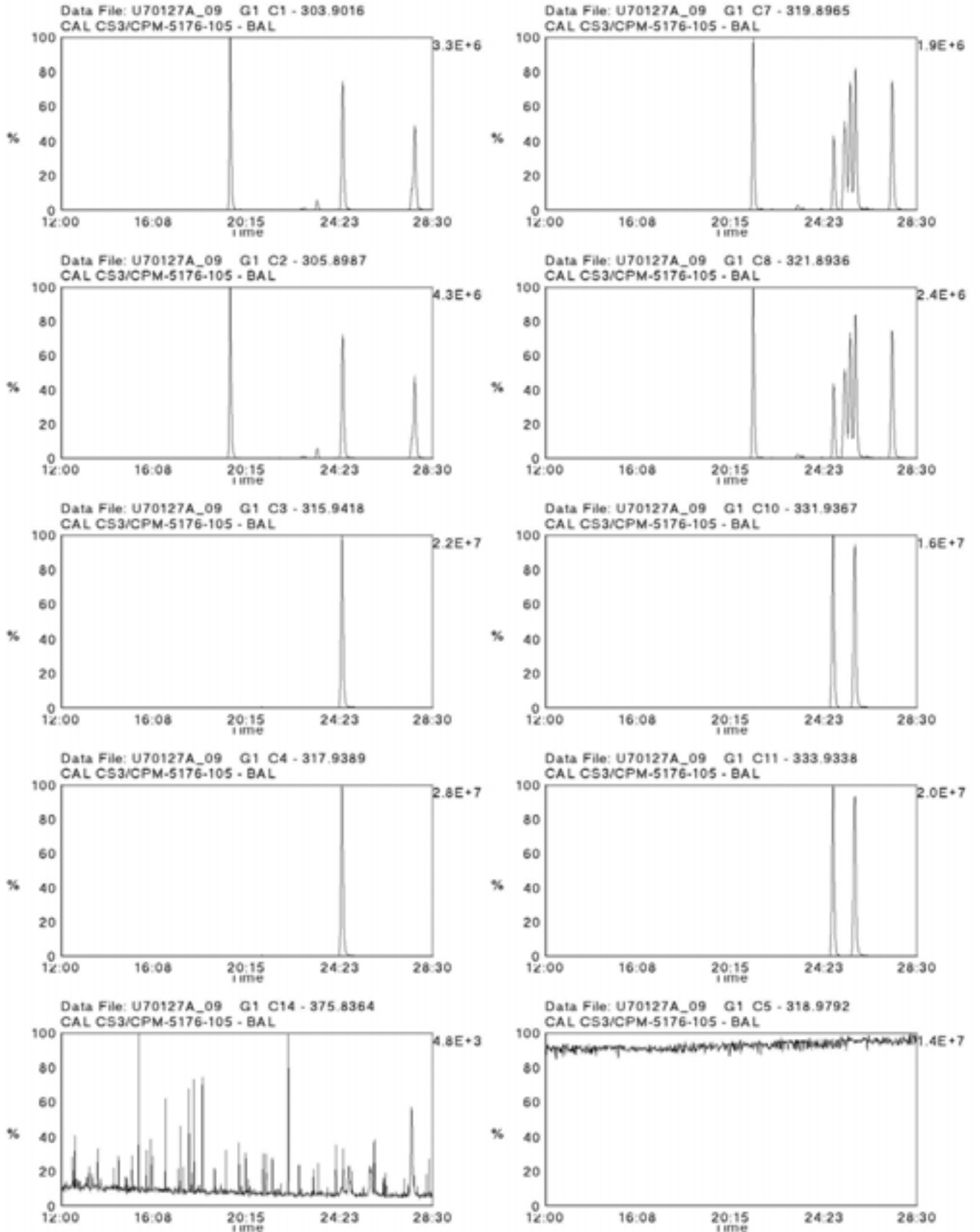
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Sample Description: CAL CS2-121306 - BAL

Lab Sample ID: CS2-032406  
Client Sample ID: CS-2  
Instrument: 10MSHR06 (U)



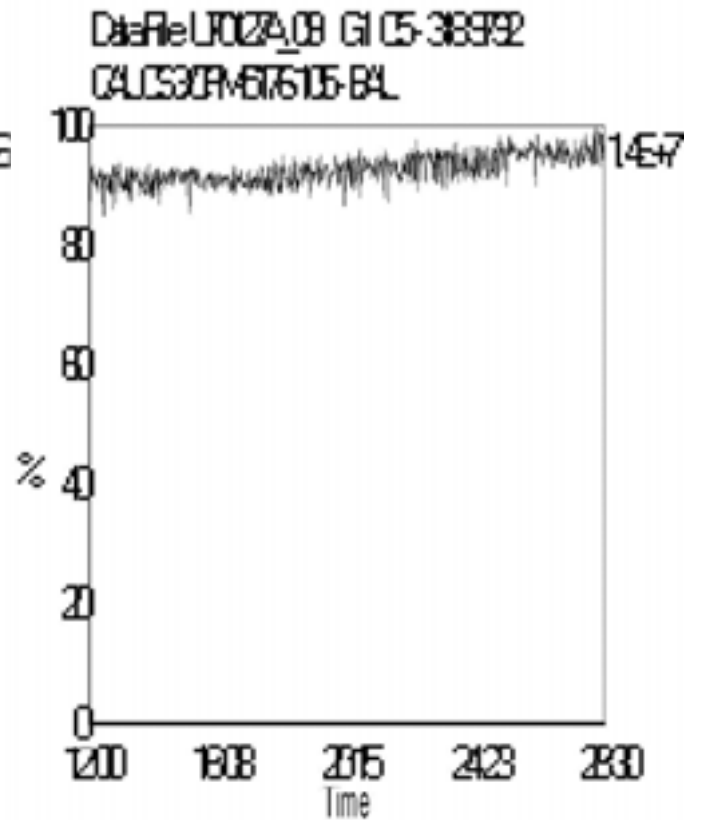
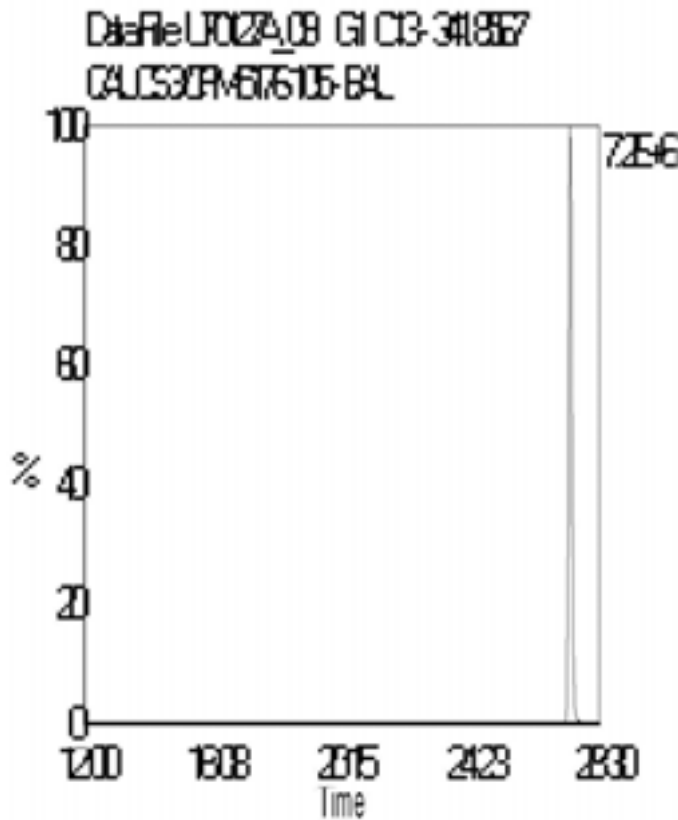
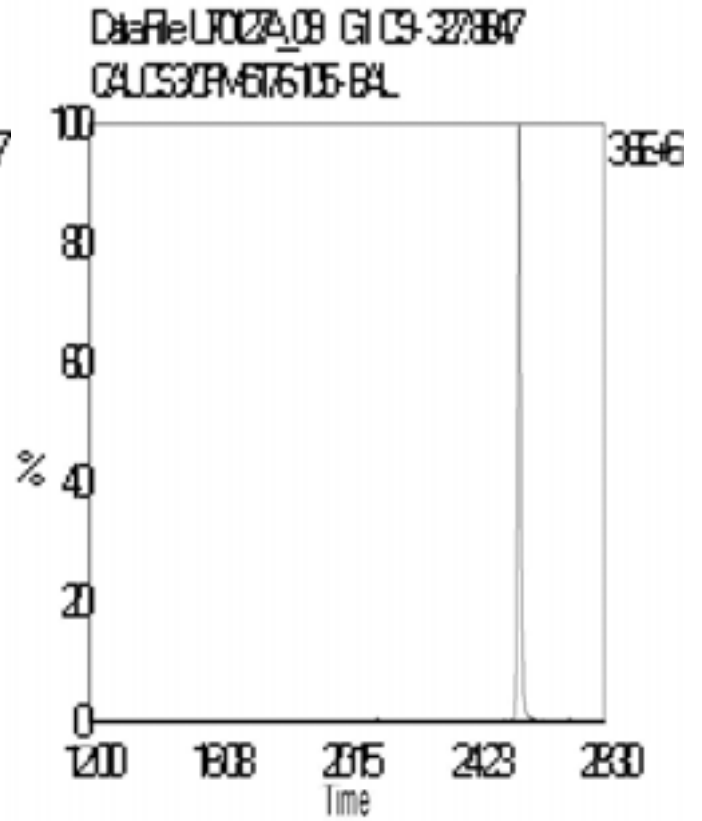
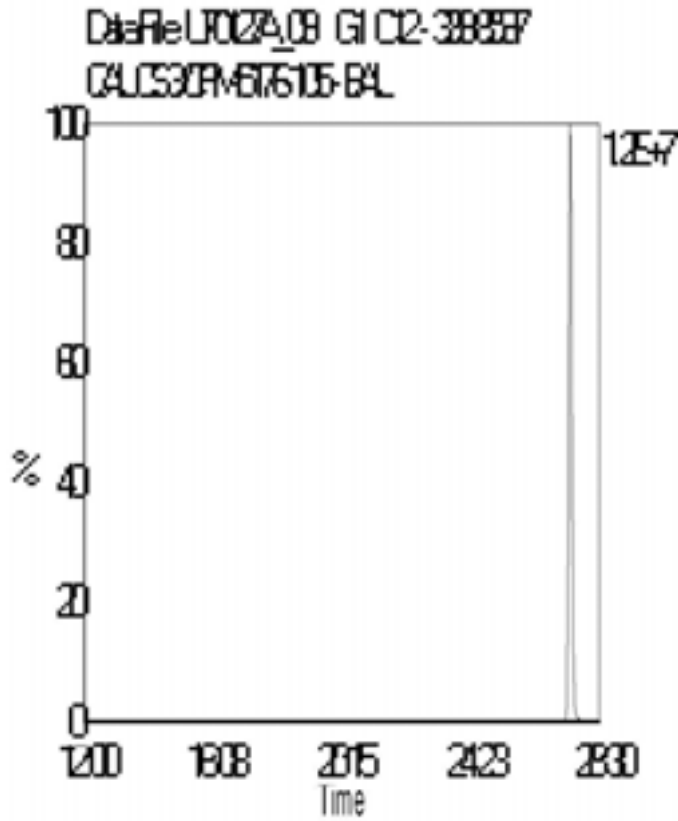
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Date Acquired: 1/27/2007  
Sample Description: CAL CS3/CPM-5176-105 - BAL

Lab Sample ID: CS3/CPM-5176-105  
Client Sample ID:  
Instrument: 10MSHR06 (U)



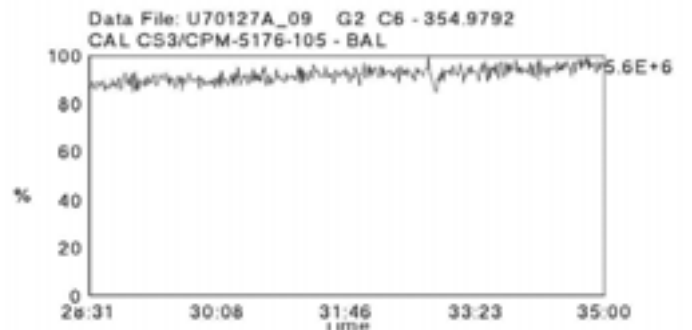
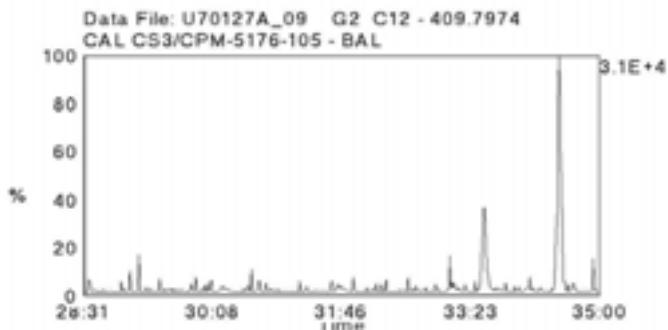
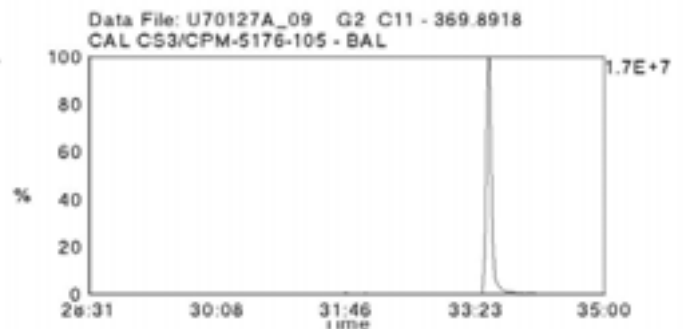
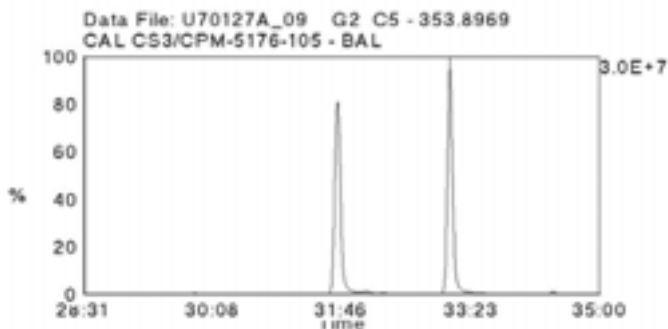
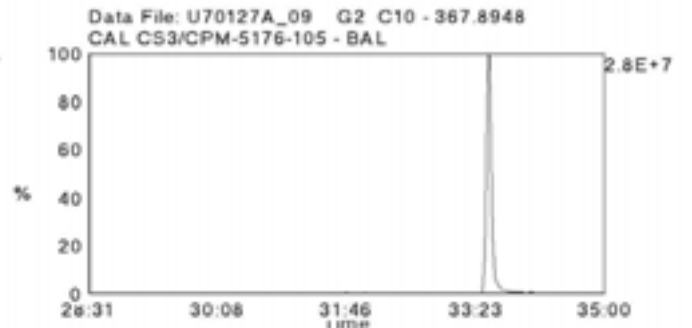
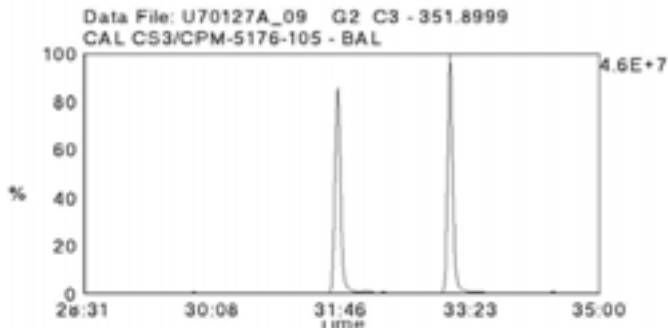
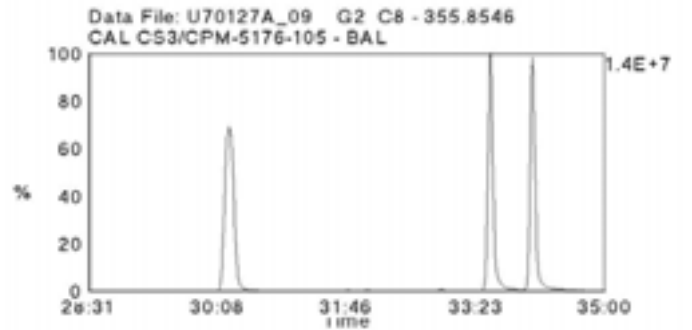
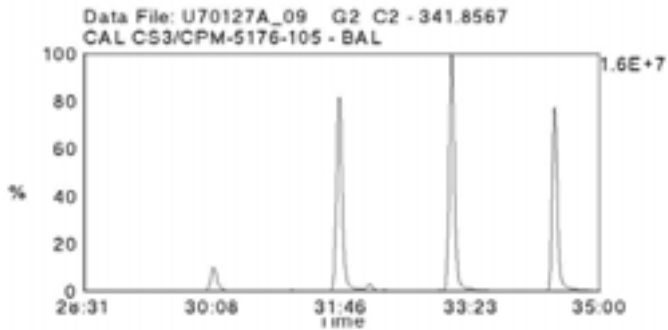
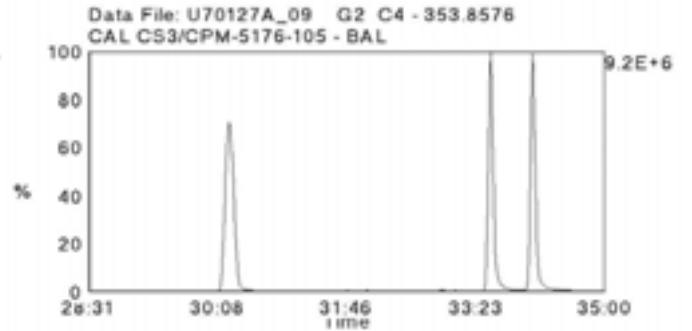
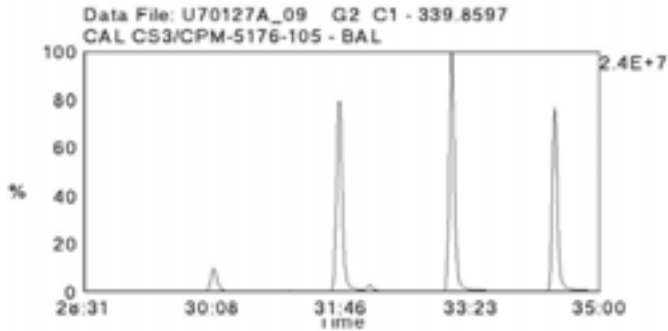
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Date Acquired: 1/27/2007  
Sample Description: CAL CS3/CPM-5176-105 - BAL

Lab Sample ID: CS3/CPM-5176-105  
Client Sample ID:  
Instrument: 10MSHR06 (U)



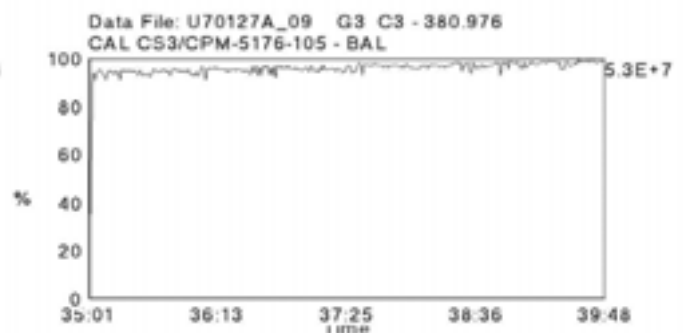
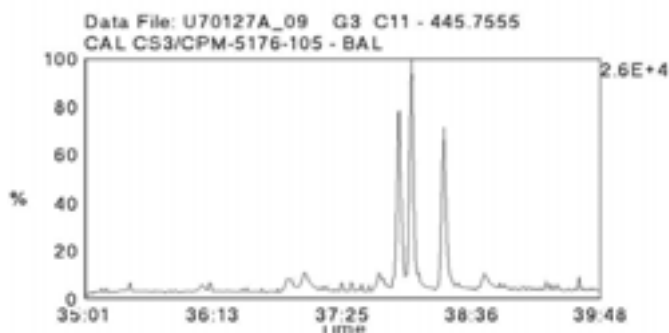
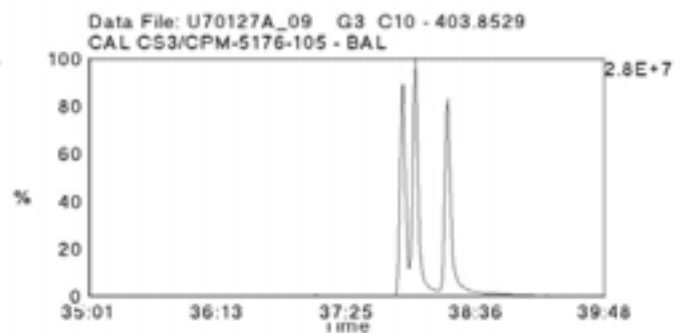
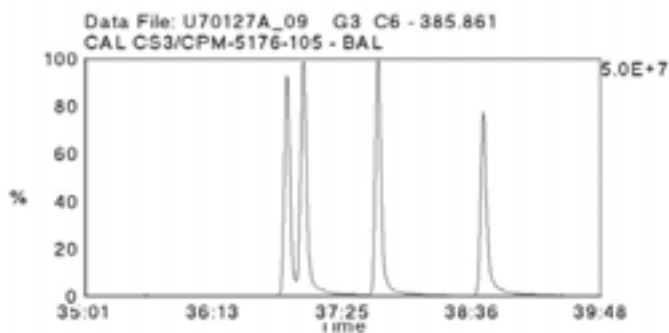
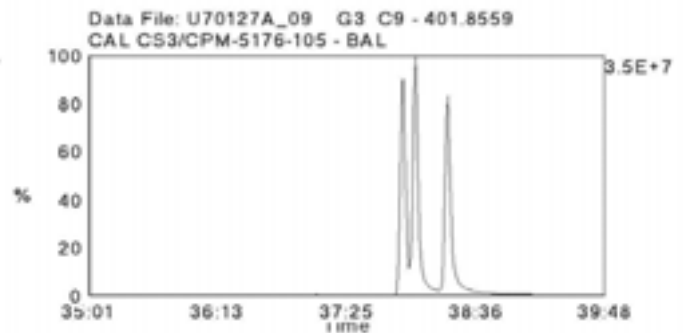
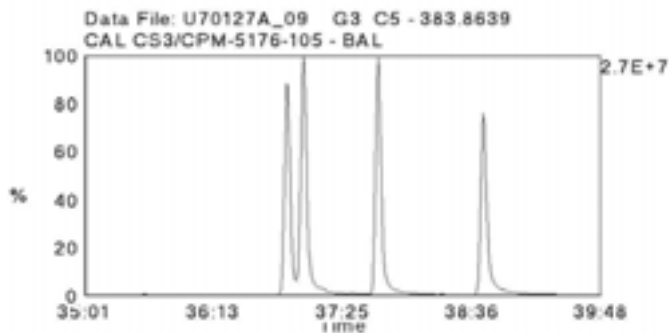
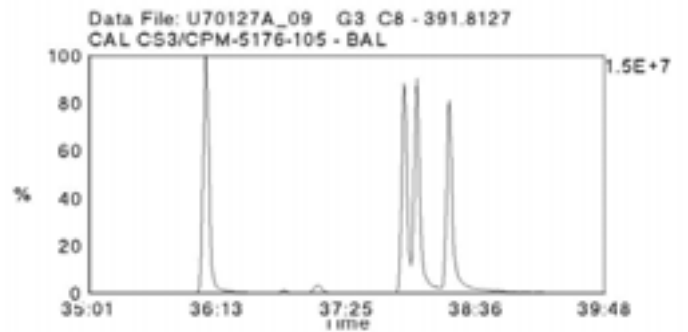
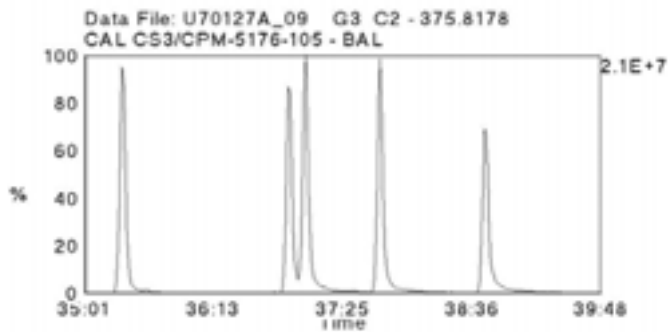
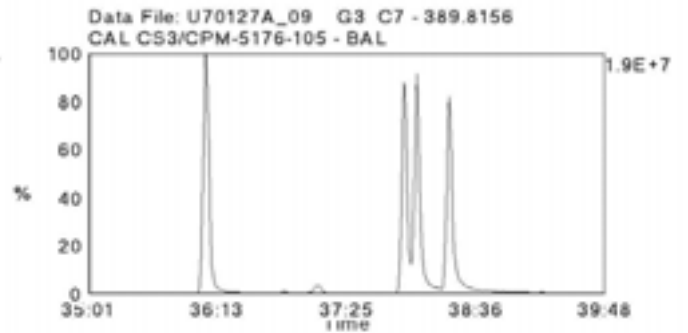
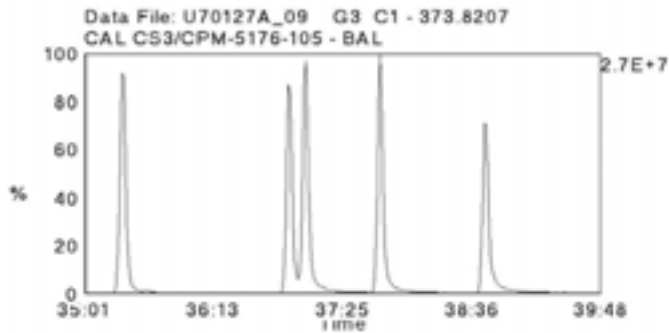
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Date Acquired: 1/27/2007  
Sample Description: CAL CS3/CPM-5176-105 - BAL

Lab Sample ID: CS3/CPM-5176-105  
Client Sample ID:  
Instrument: 10MSHR06 (U)



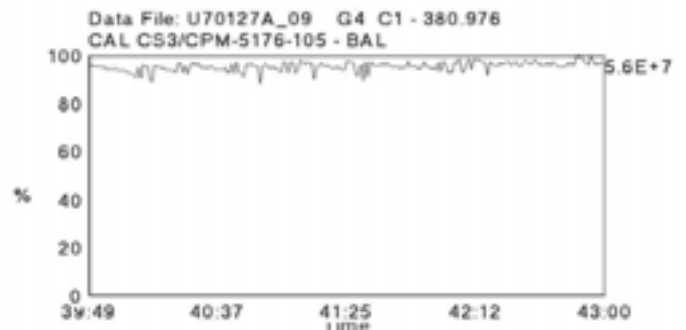
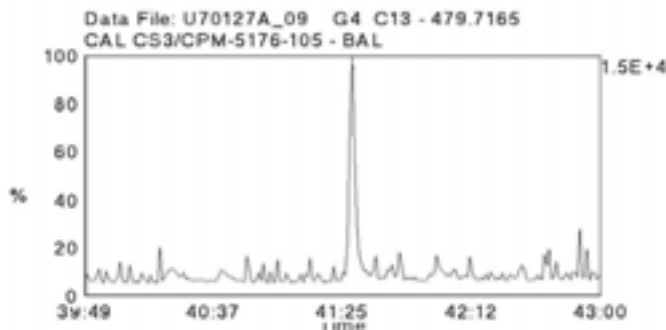
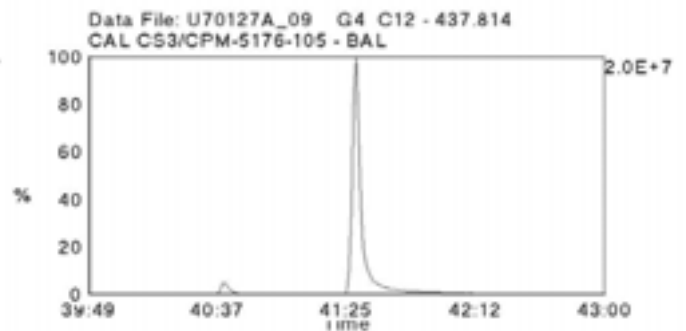
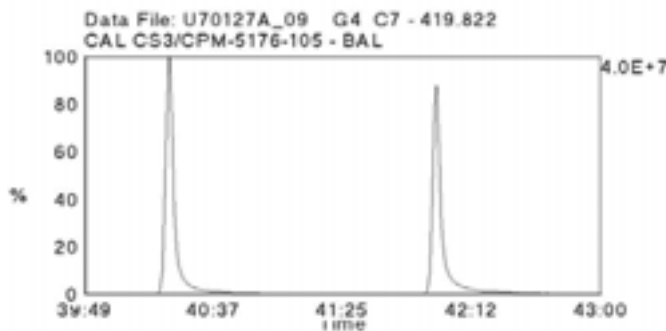
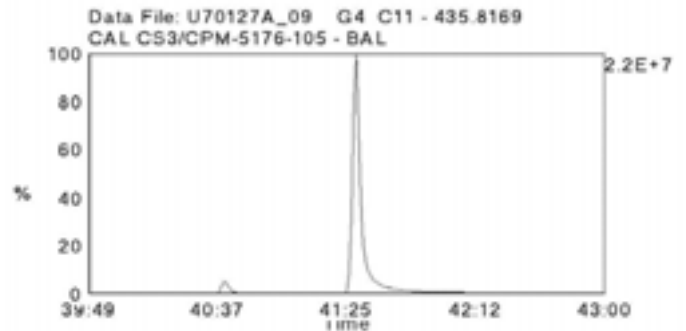
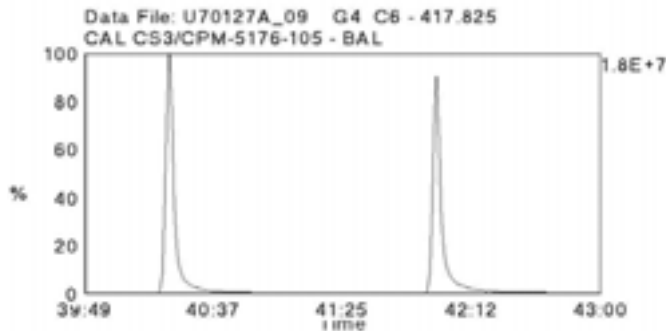
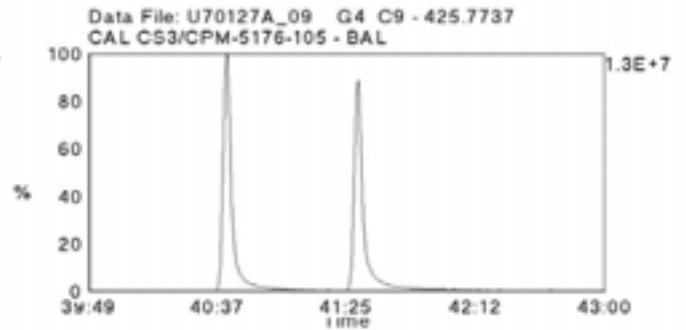
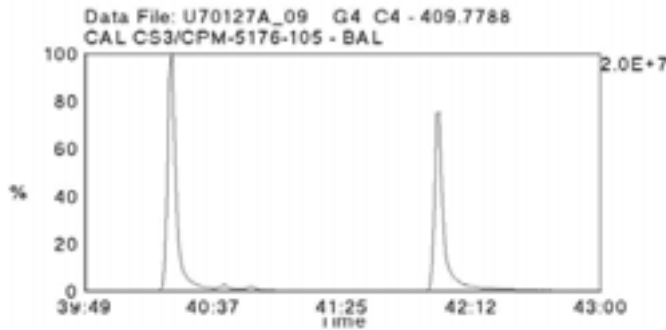
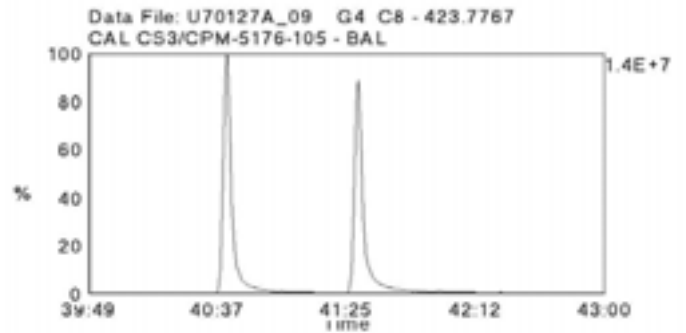
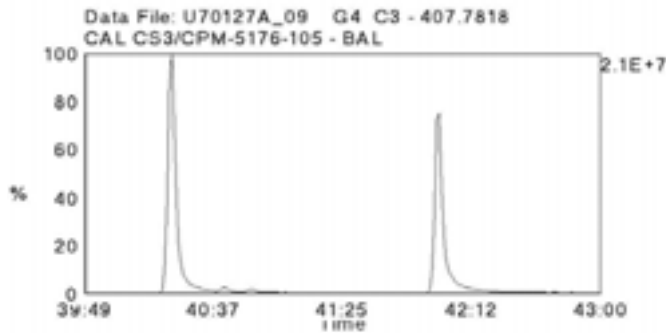
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Date Acquired: 1/27/2007  
Sample Description: CAL CS3/CPM-5176-105 - BAL

Lab Sample ID: CS3/CPM-5176-105  
Client Sample ID:  
Instrument: 10MSHR06 (U)



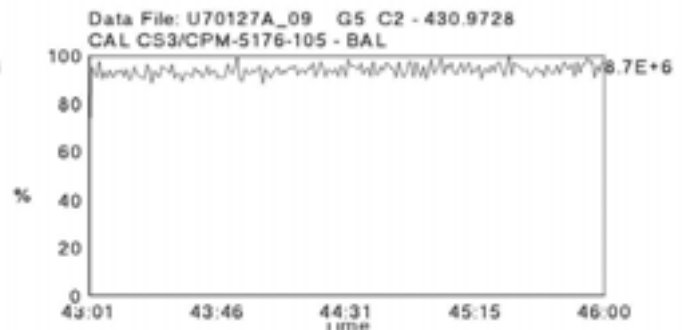
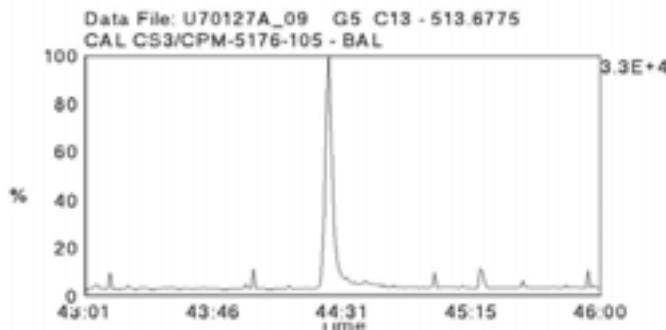
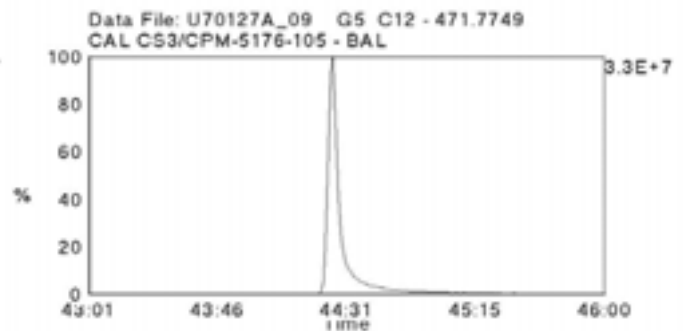
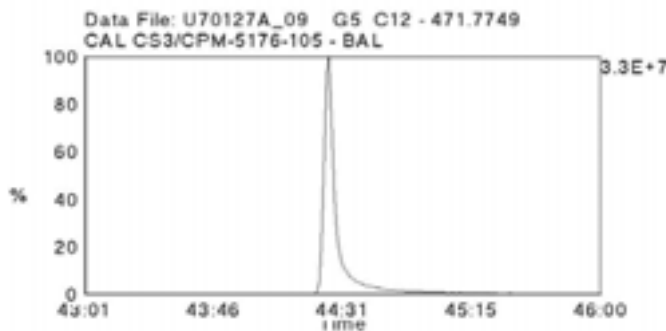
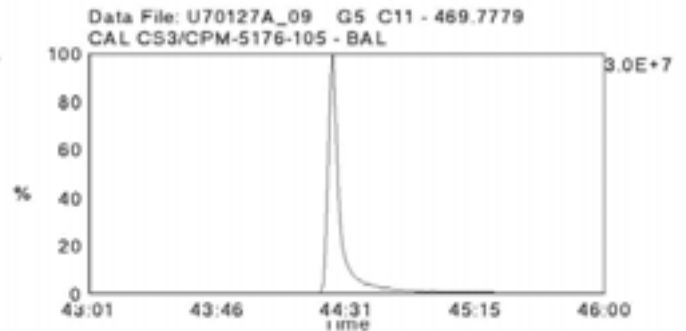
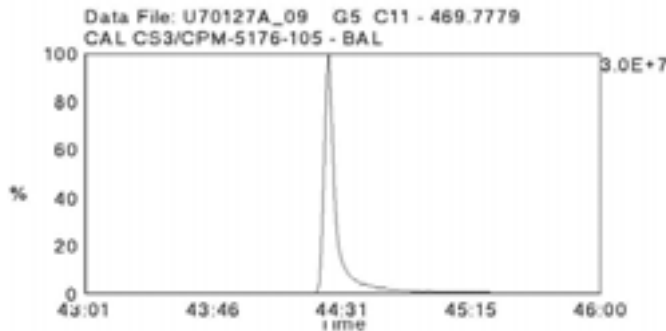
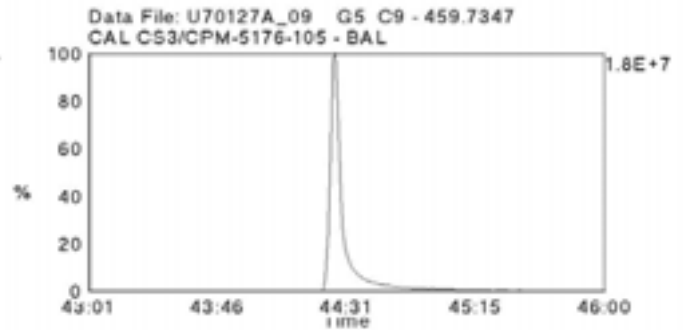
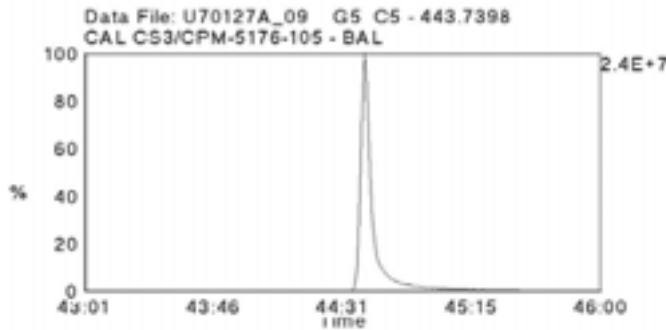
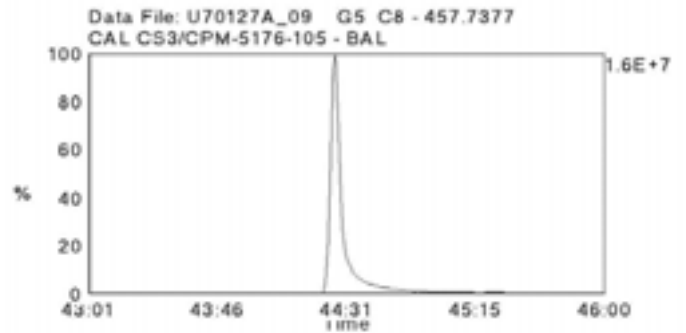
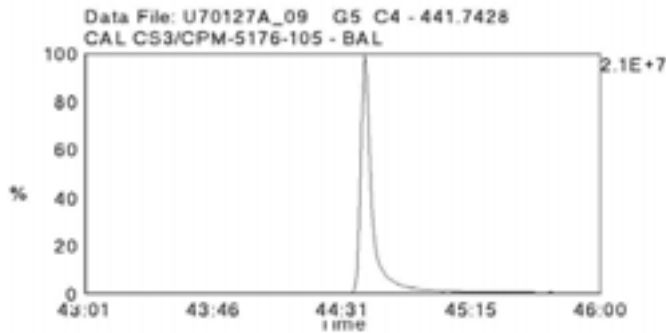
Data File Name: U70127A\_09  
Date Acquired: 1/27/2007  
Sample Description: CAL CS3/CPM-5176-105 - BAL

Lab Sample ID: CS3/CPM-5176-105  
Client Sample ID:  
Instrument: 10MSHR06 (U)



Data File Name: U70127A\_09  
Date Acquired: 1/27/2007  
Sample Description: CAL CS3/CPM-5176-105 - BAL

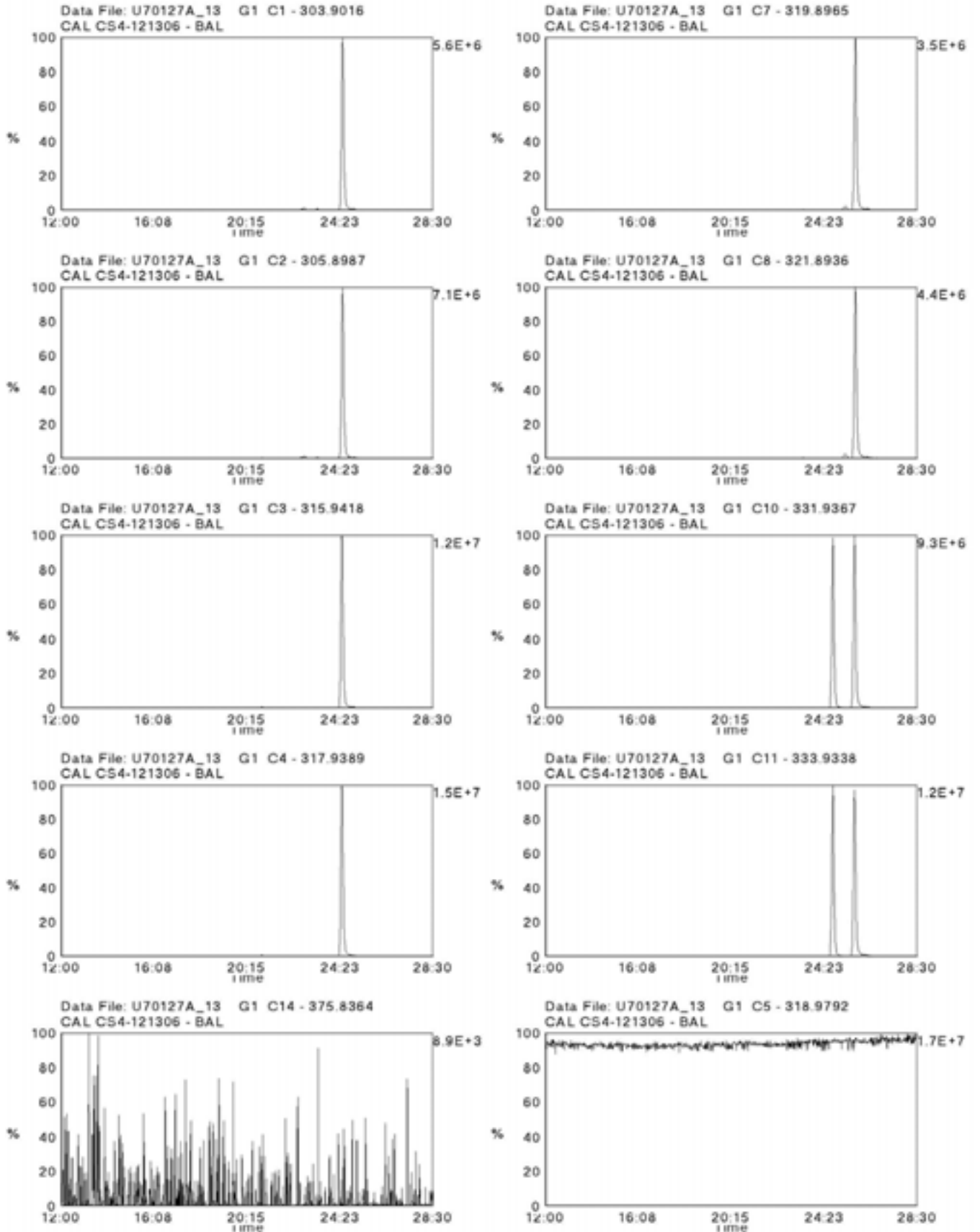
Lab Sample ID: CS3/CPM-5176-105  
Client Sample ID:  
Instrument: 10MSHR06 (U)





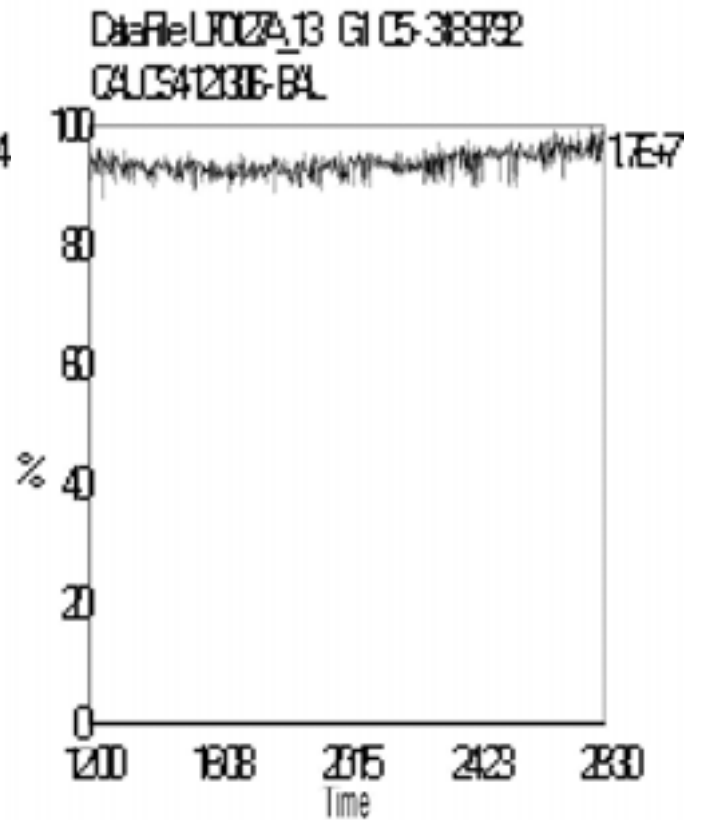
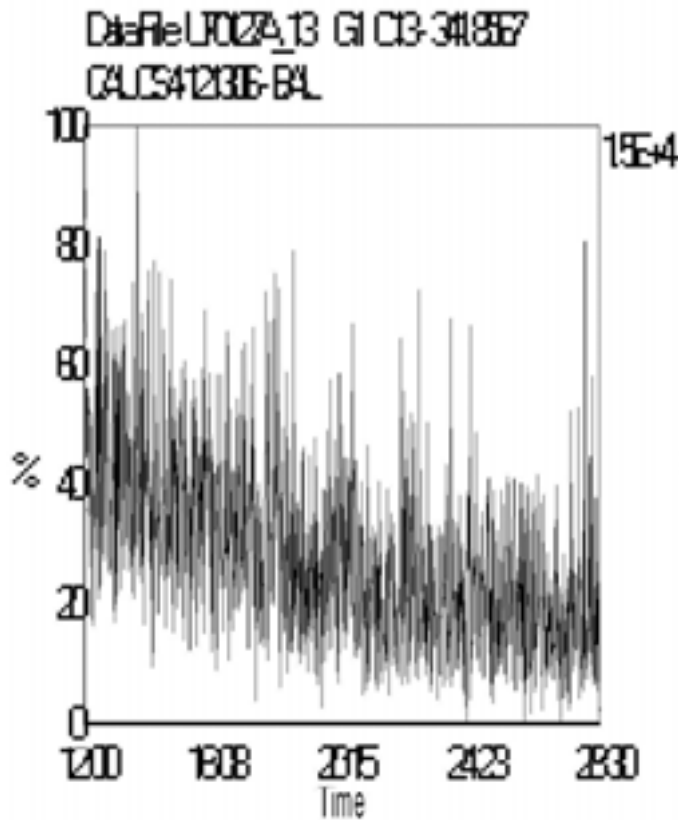
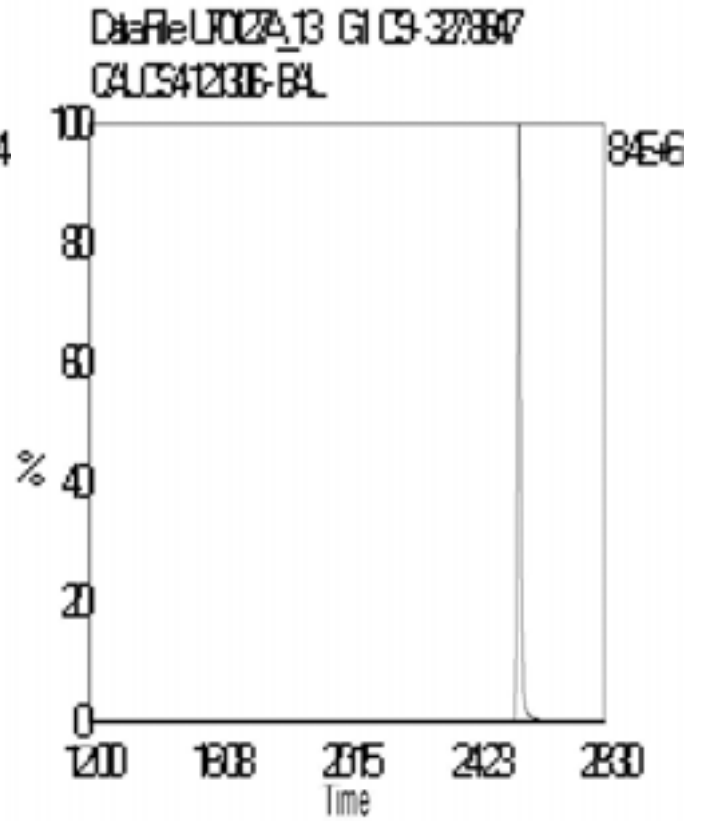
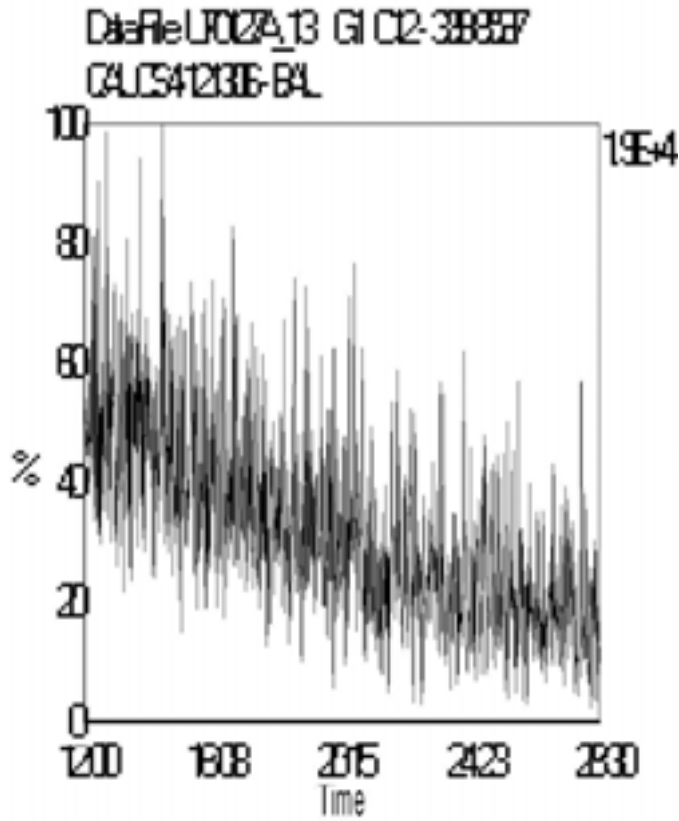
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Date Acquired: 1/28/2007  
Sample Description: CAL CS4-121306 - BAL

Lab Sample ID: CS4-032406  
Client Sample ID: CS-4  
Instrument: 10MSHR06 (U)



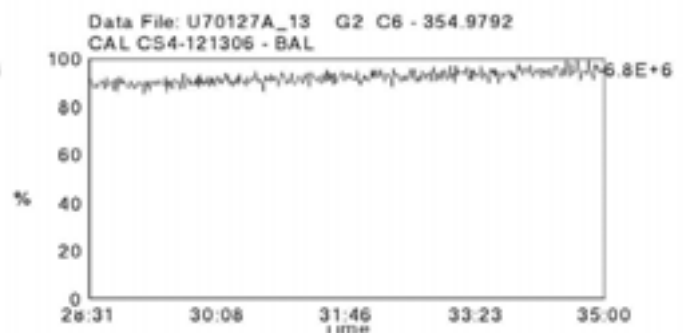
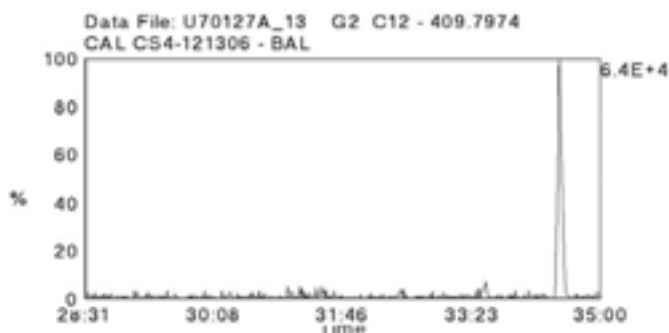
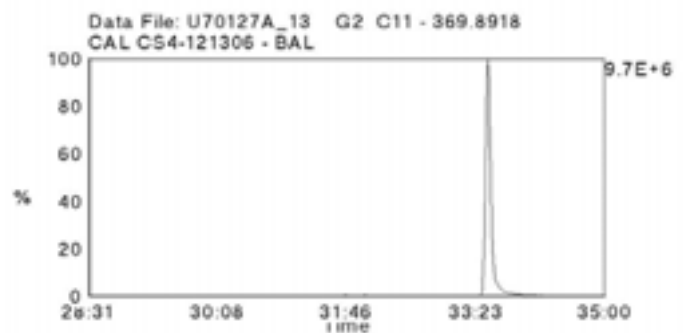
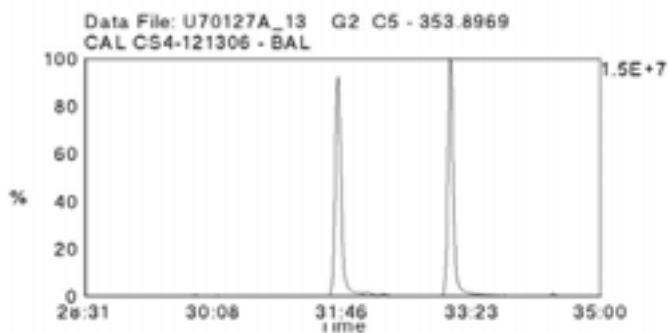
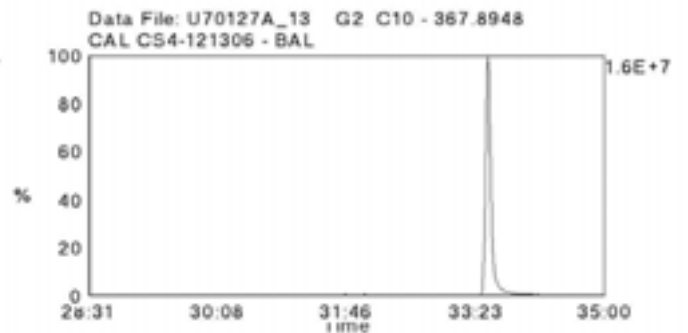
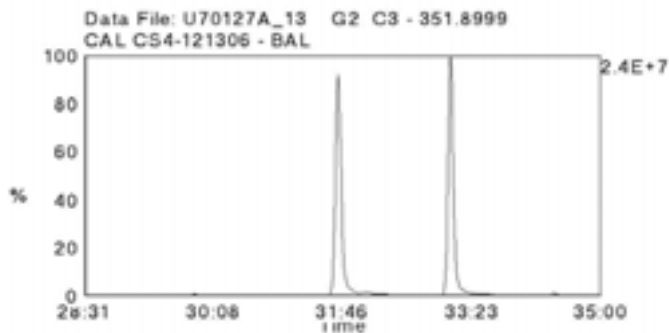
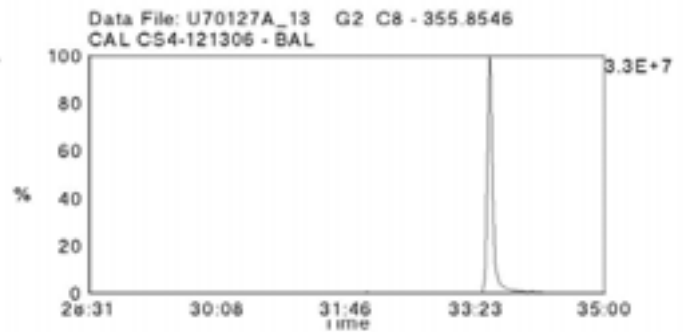
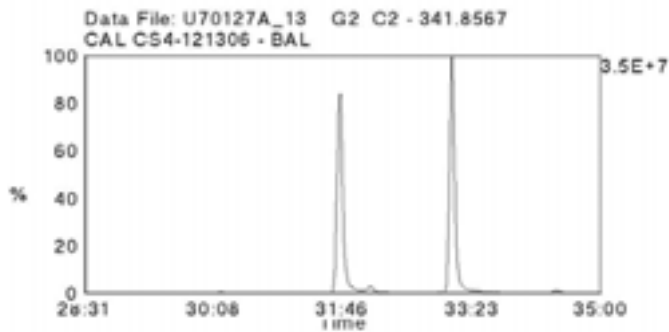
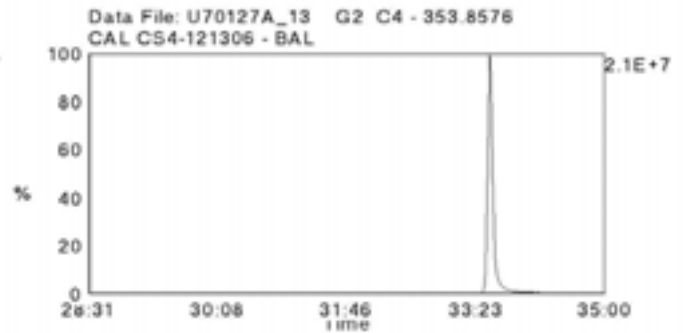
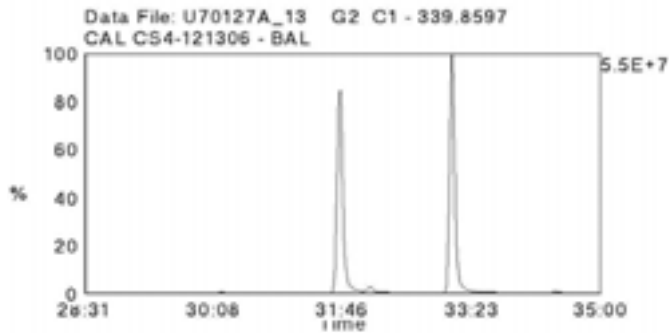
Data File Name: U70127A\_13  
Date Acquired: 1/28/2007  
Sample Description: CAL CS4-121306 - BAL

Lab Sample ID: CS4-032406  
Client Sample ID: CS-4  
Instrument: 10MSHR06 (U)



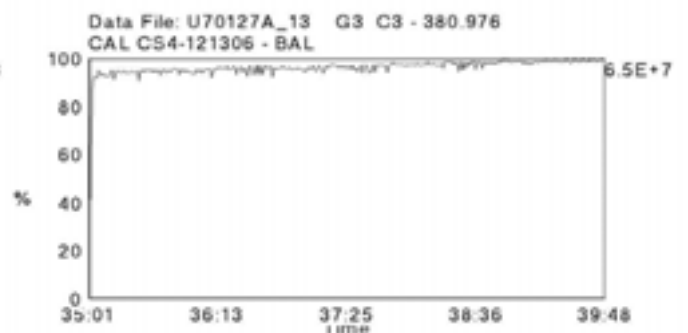
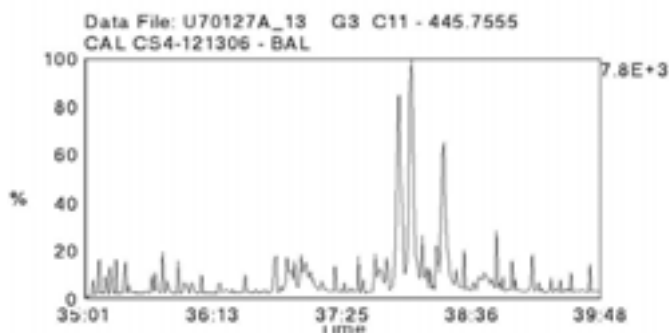
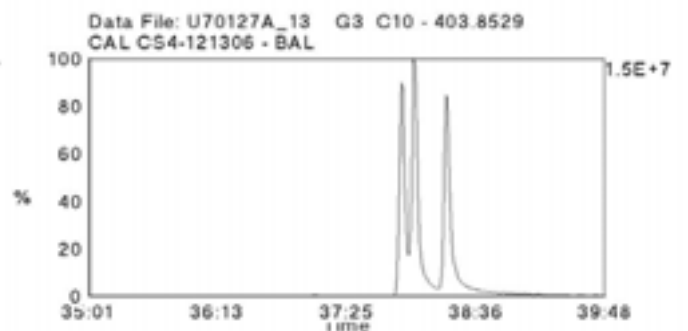
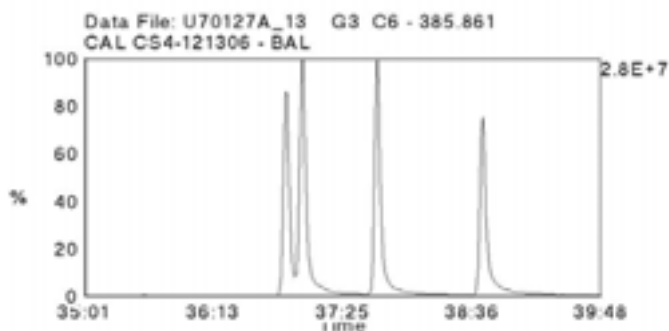
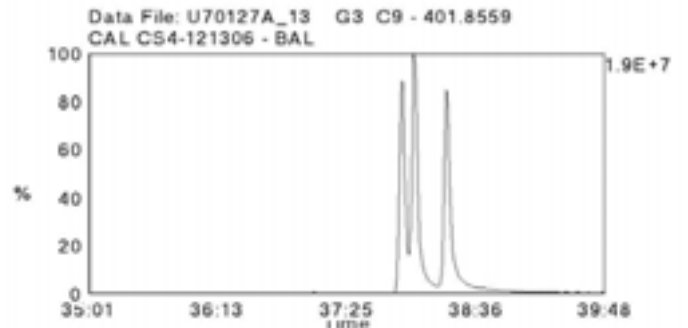
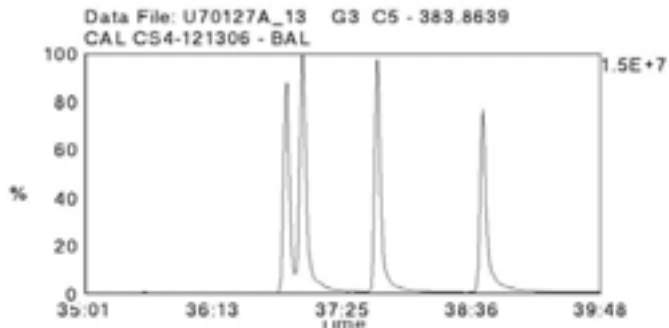
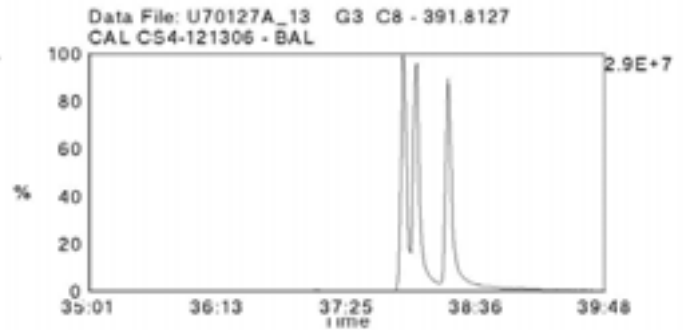
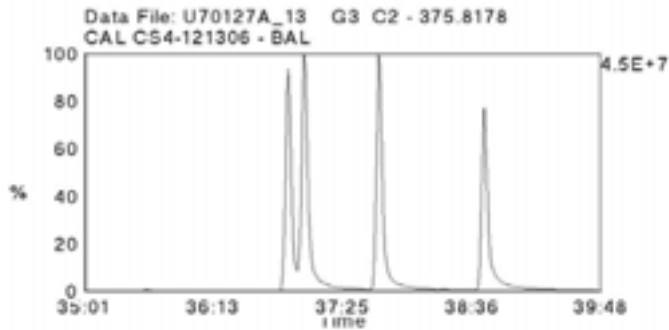
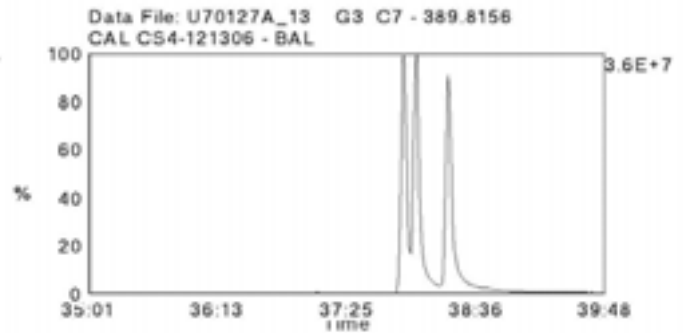
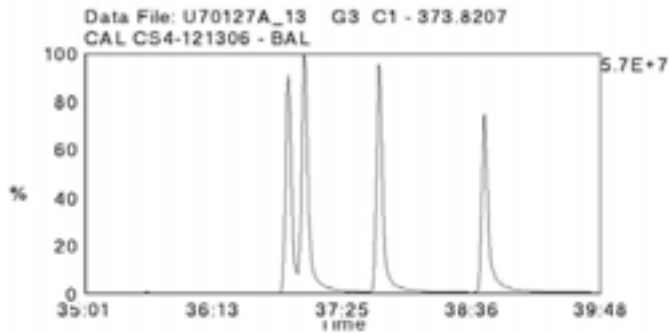
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Date Acquired: 1/28/2007  
Sample Description: CAL CS4-121306 - BAL

Lab Sample ID: CS4-032406  
Client Sample ID: CS-4  
Instrument: 10MSHR06 (U)



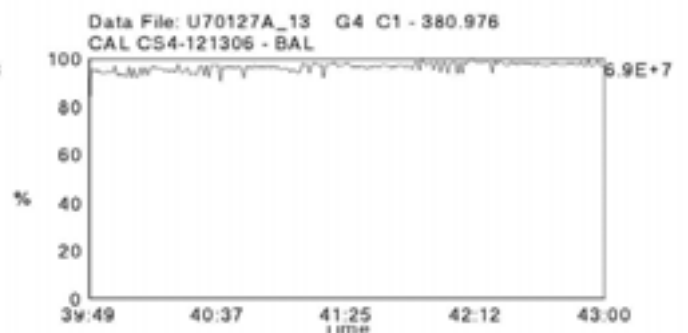
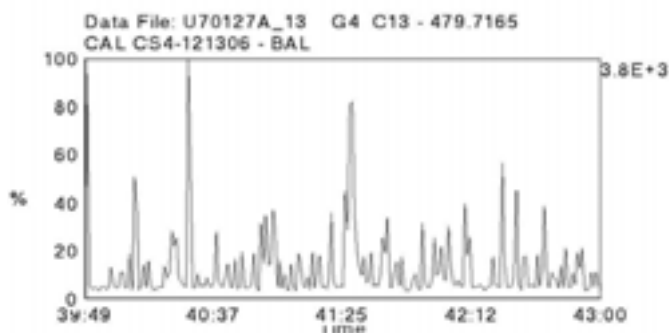
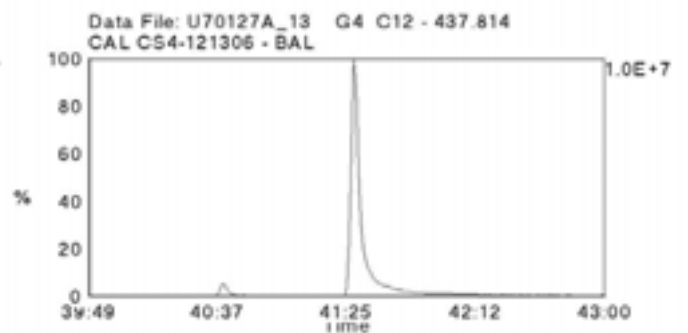
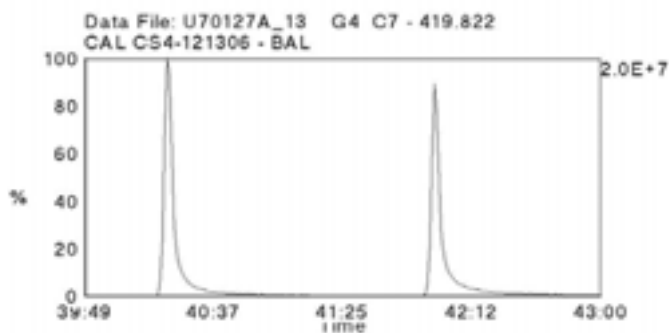
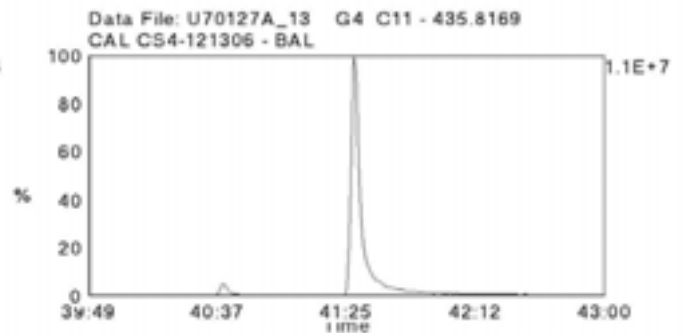
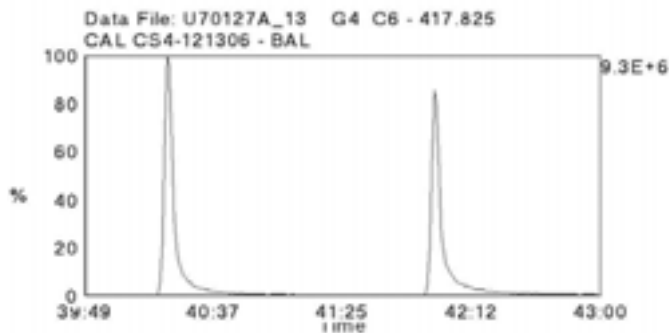
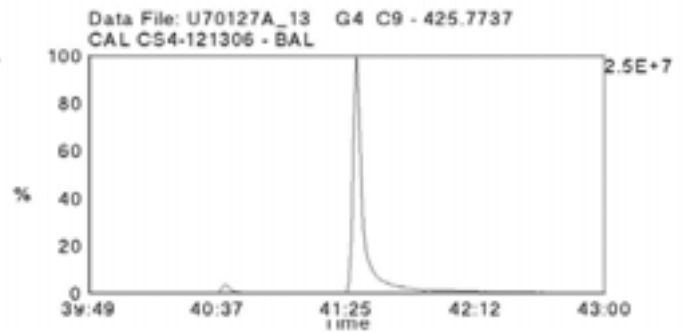
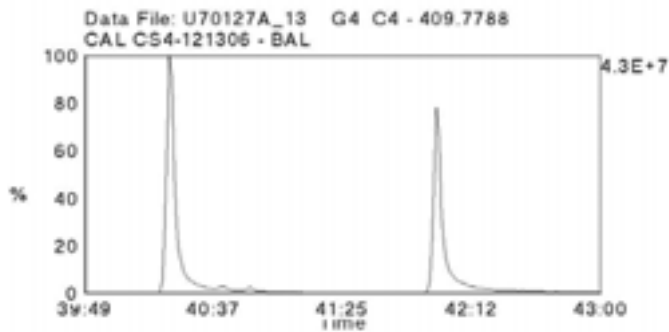
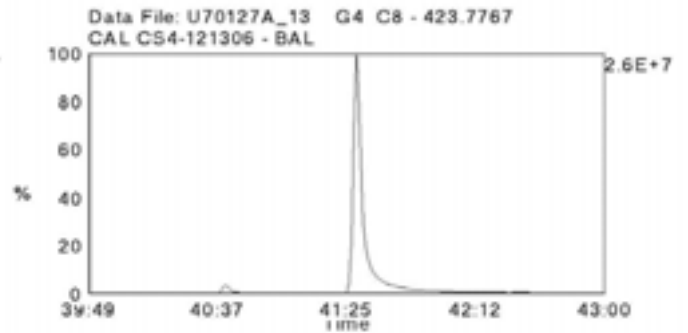
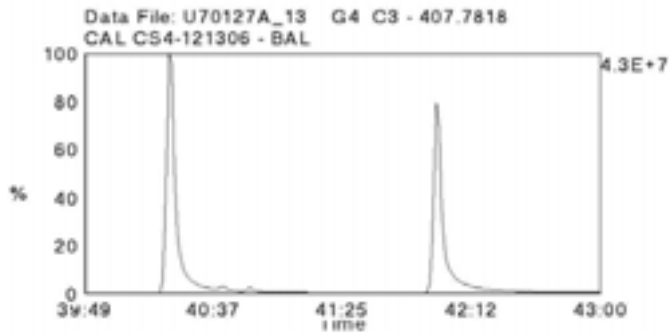
Data File Name: U70127A\_13  
Date Acquired: 1/28/2007  
Sample Description: CAL CS4-121306 - BAL

Lab Sample ID: CS4-032406  
Client Sample ID: CS-4  
Instrument: 10MSHR06 (U)



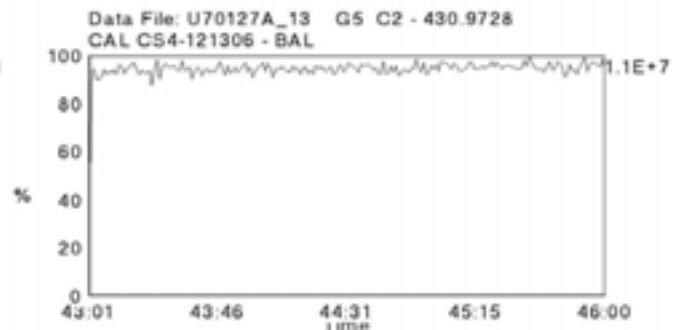
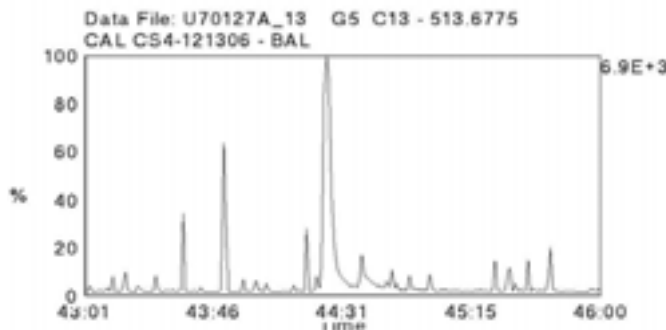
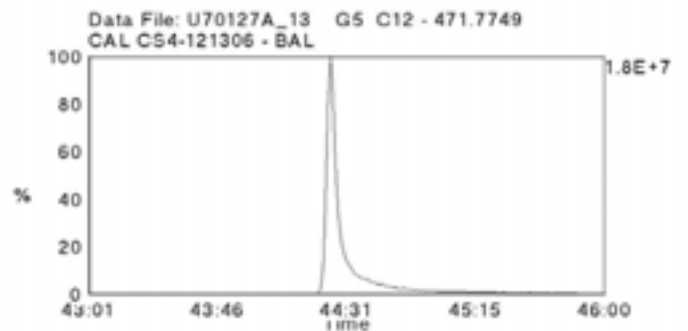
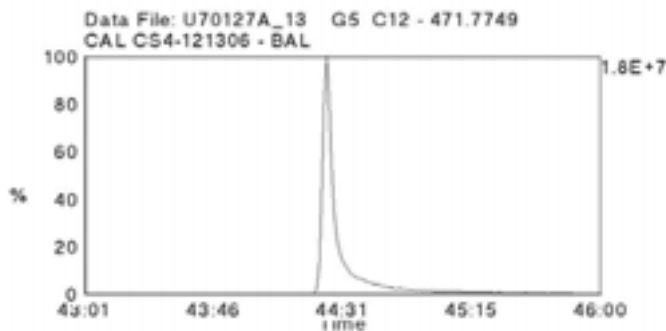
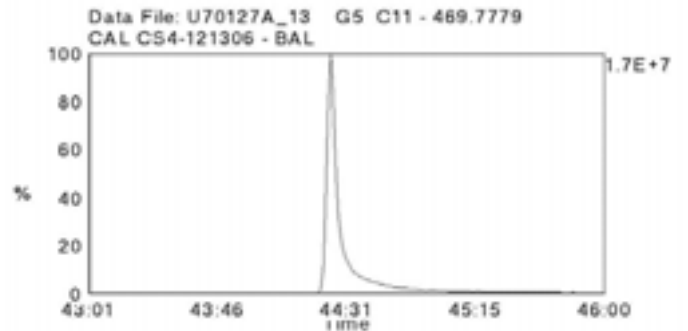
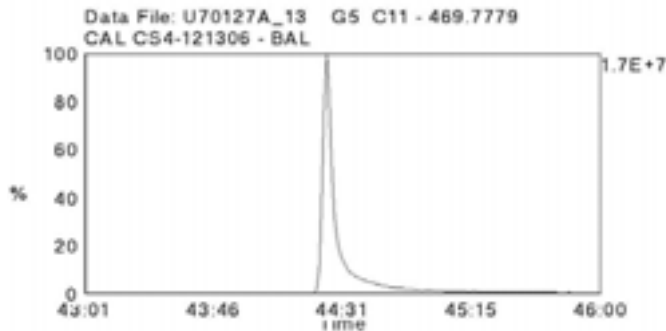
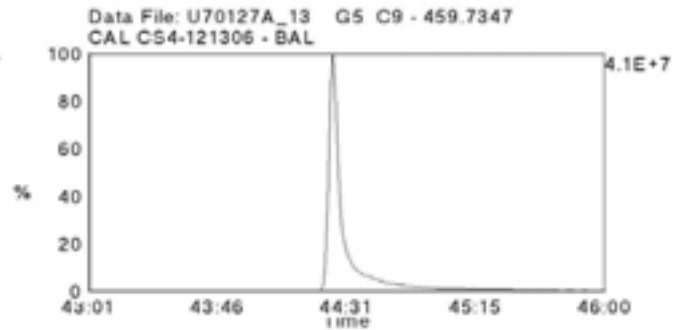
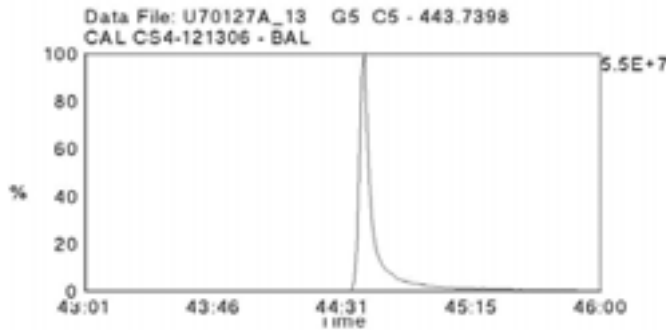
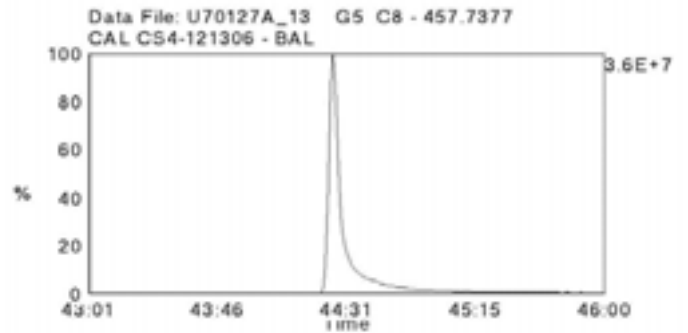
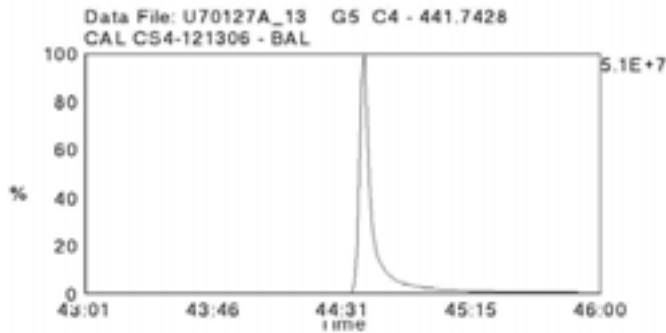
Data File Name: U70127A\_13  
Date Acquired: 1/28/2007  
Sample Description: CAL CS4-121306 - BAL

Lab Sample ID: CS4-032406  
Client Sample ID: CS-4  
Instrument: 10MSHR06 (U)



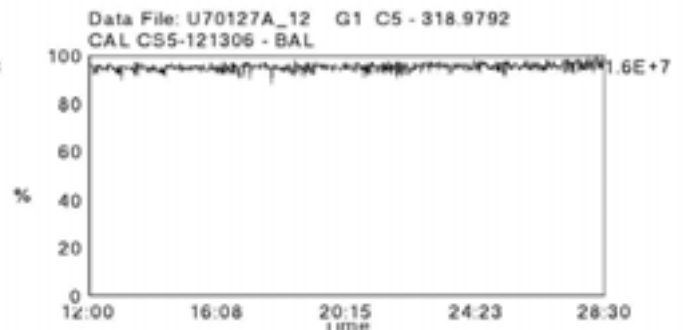
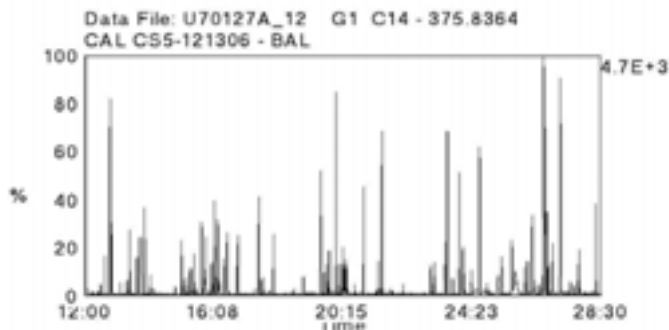
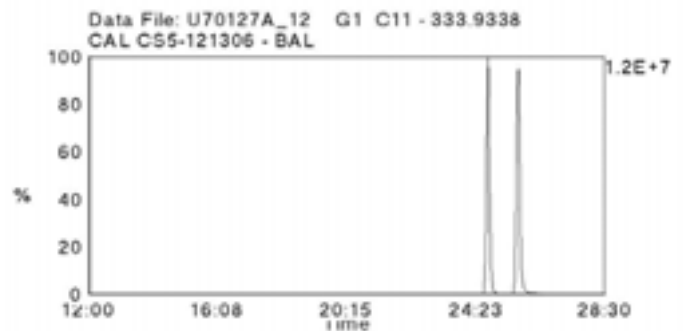
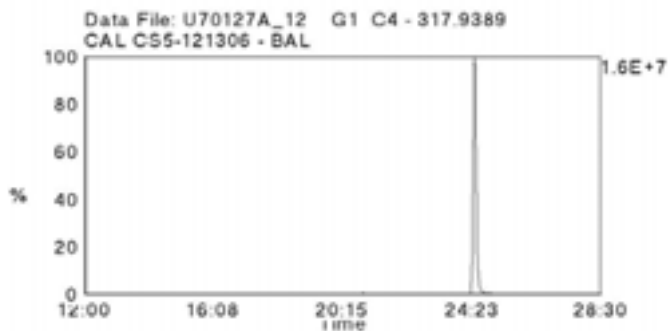
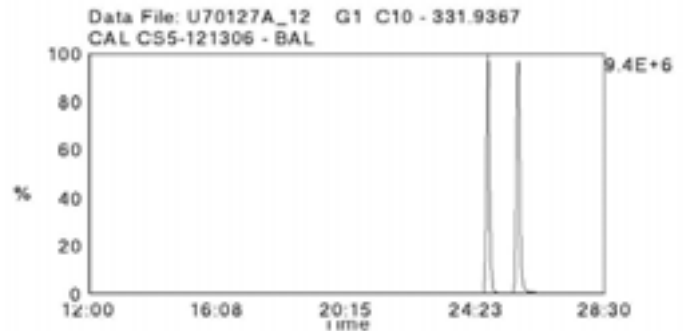
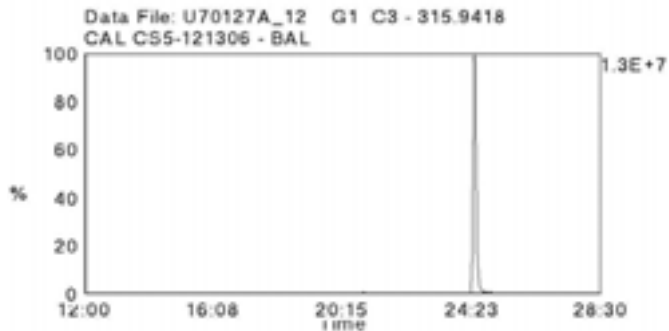
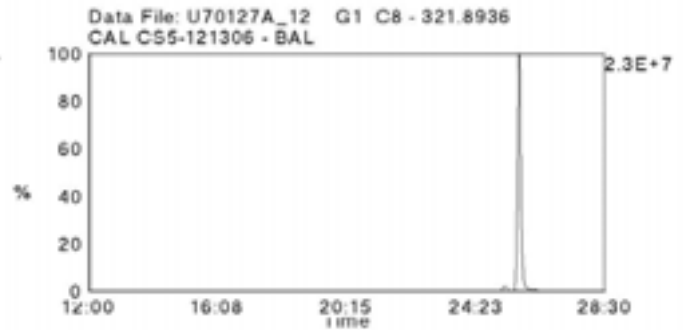
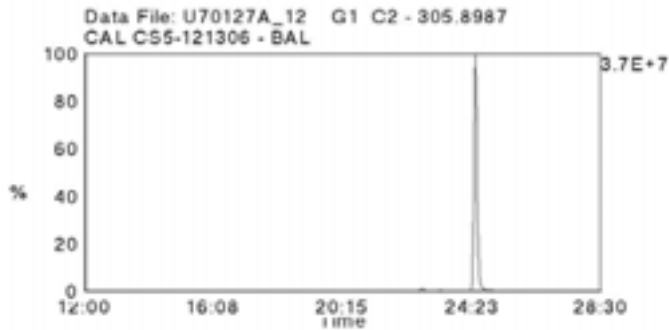
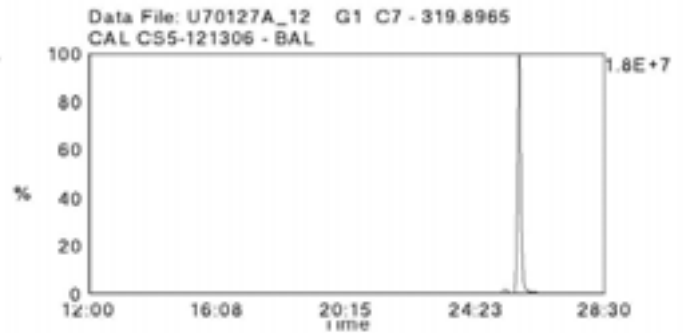
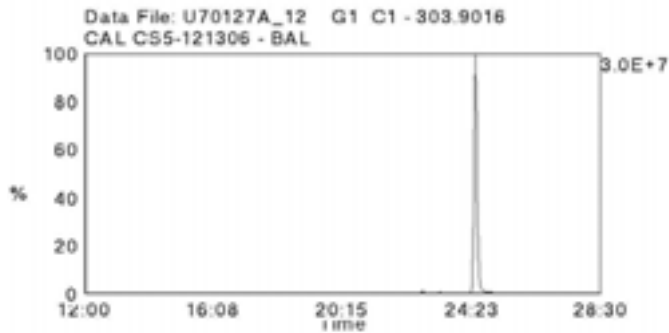
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Date Acquired: 1/28/2007  
Sample Description: CAL CS4-121306 - BAL

Lab Sample ID: CS4-032406  
Client Sample ID: CS-4  
Instrument: 10MSHR06 (U)



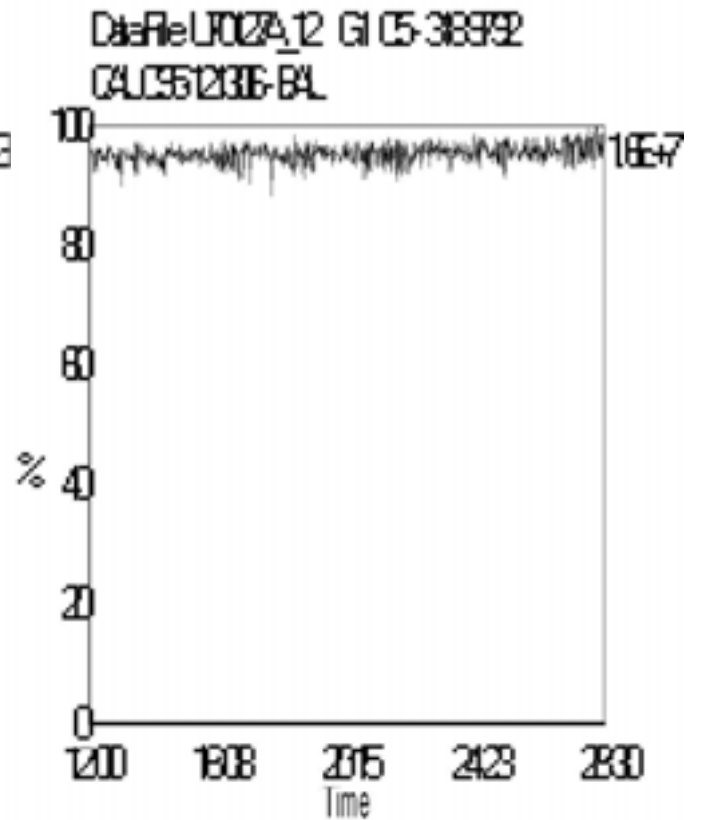
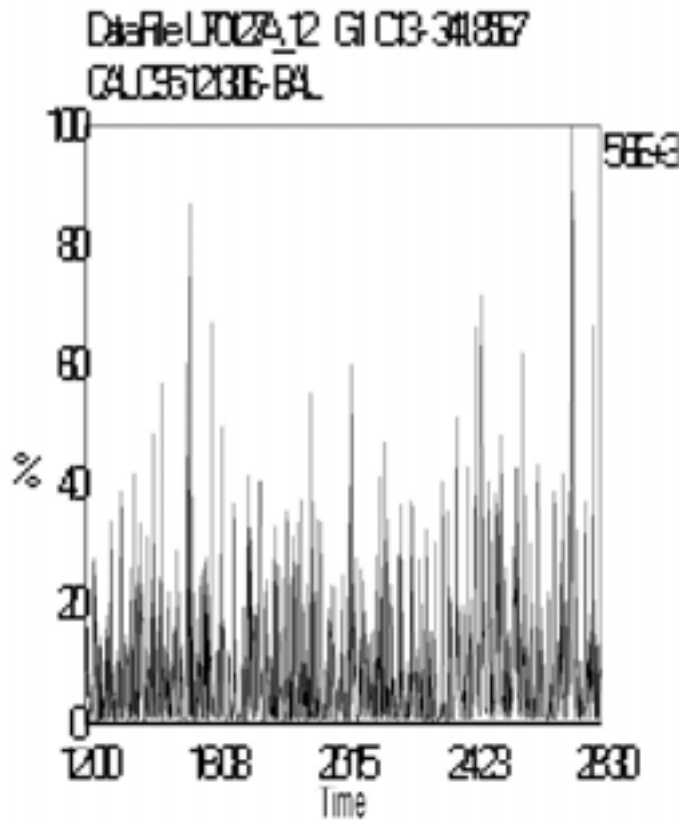
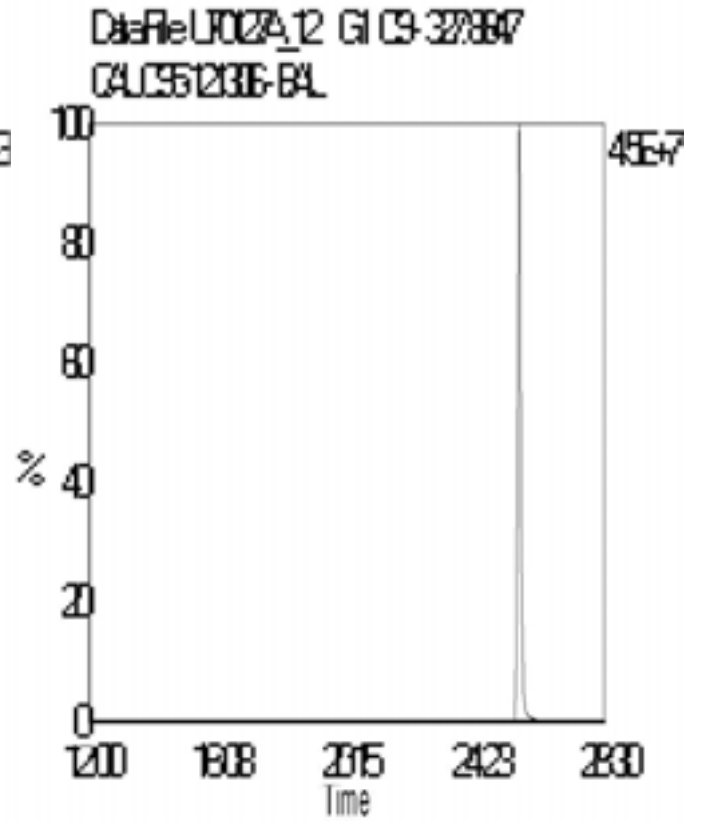
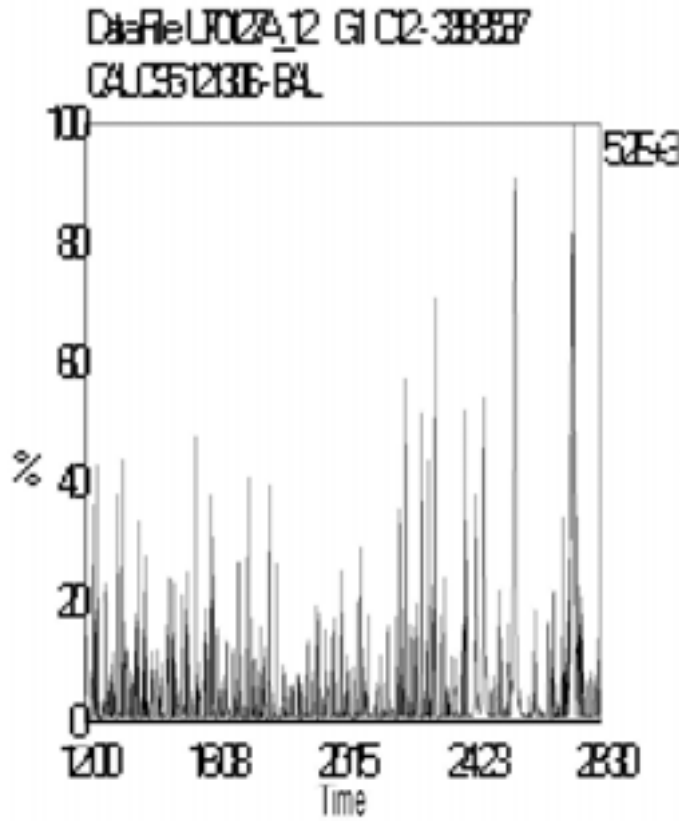
Data File Name: U70127A\_12  
Date Acquired: 1/28/2007  
Sample Description: CAL CS5-121306 - BAL

Lab Sample ID: CS5-032406  
Client Sample ID: CS-5  
Instrument: 10MSHR06 (U)



Data File Name: U70127A\_12  
Date Acquired: 1/28/2007  
Sample Description: CAL CS5-121306 - BAL

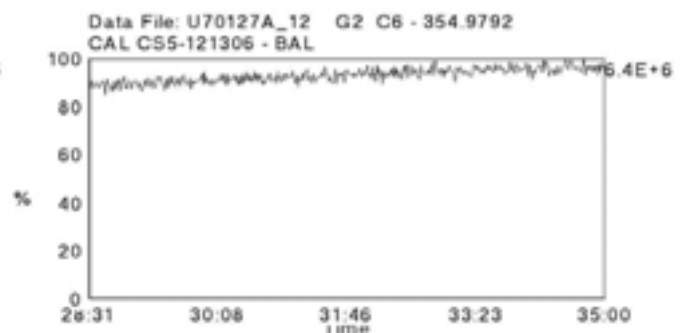
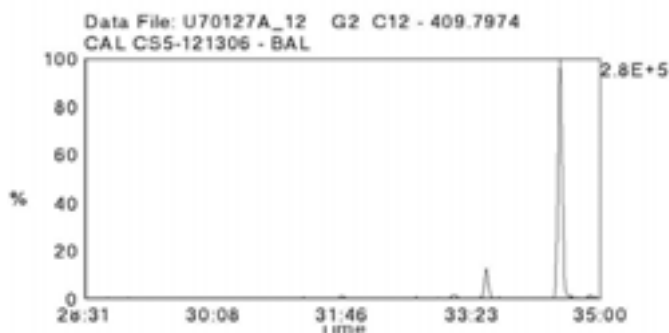
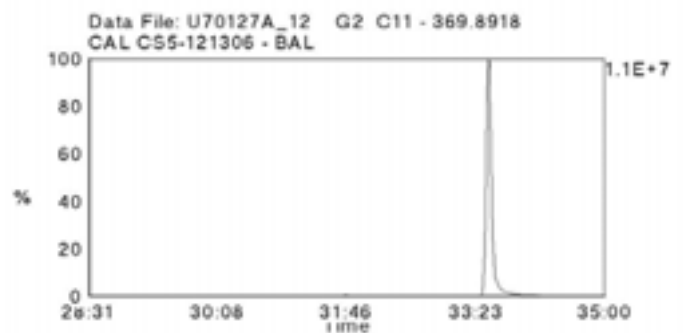
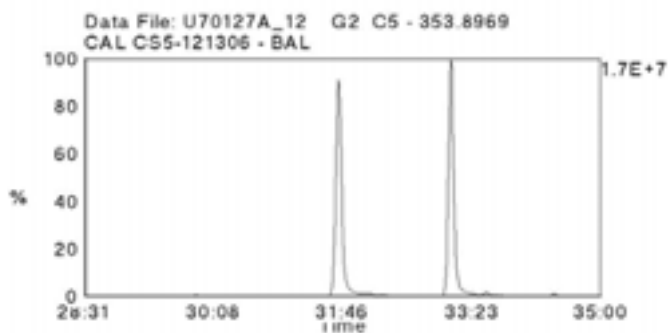
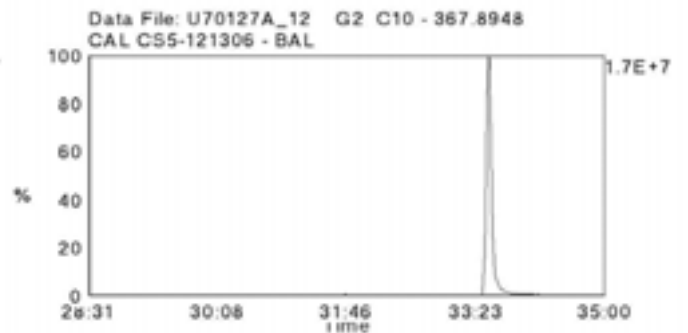
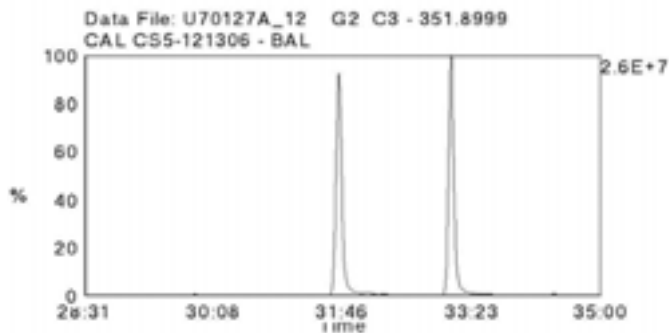
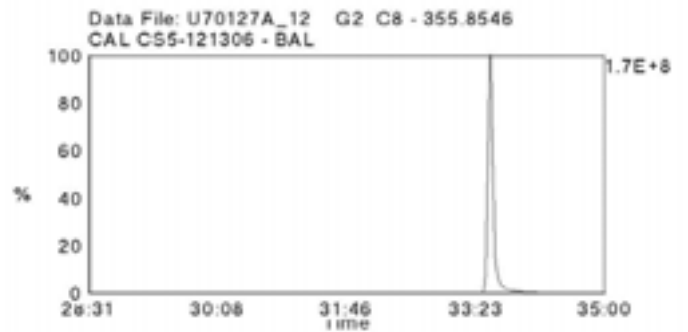
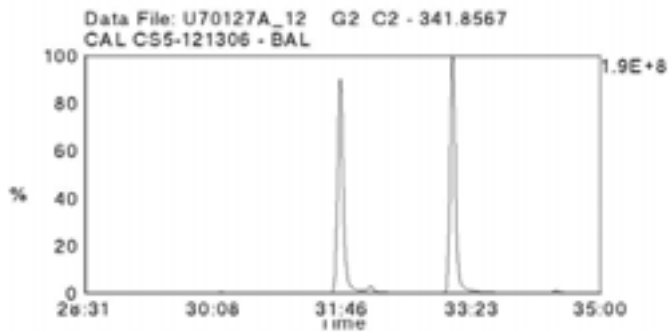
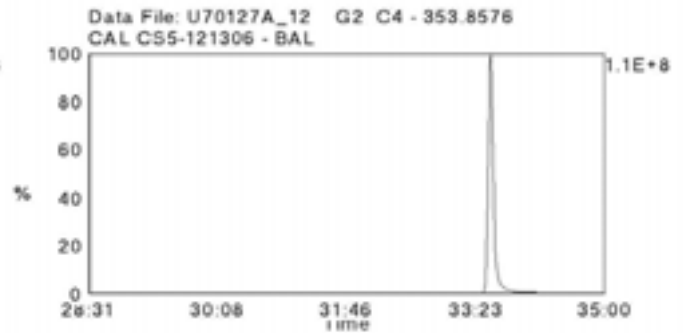
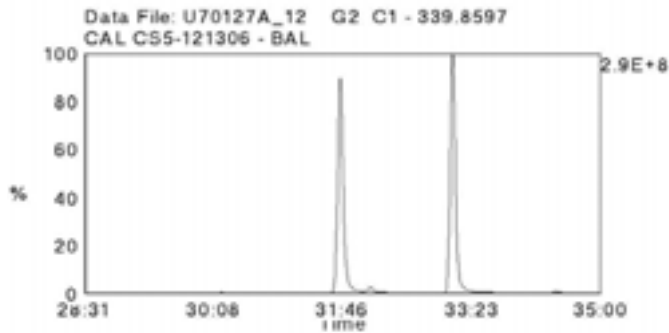
Lab Sample ID: CS5-032406  
Client Sample ID: CS-5  
Instrument: 10MSHR06 (U)





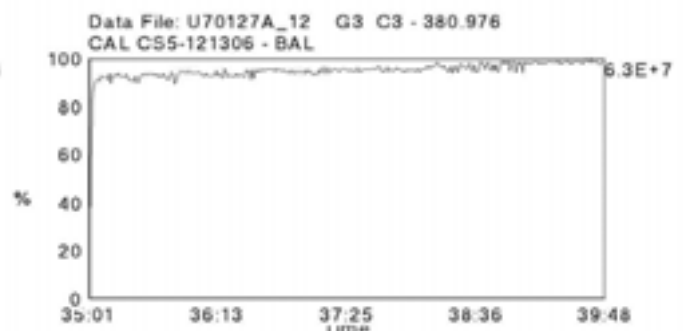
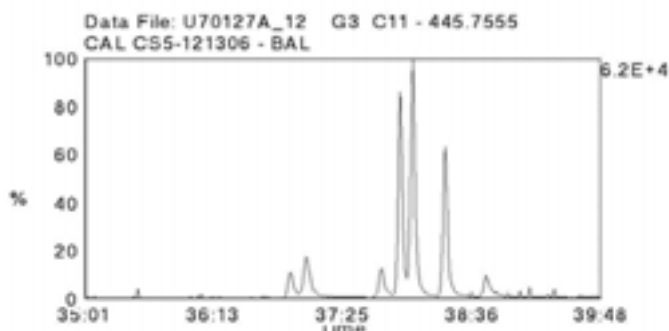
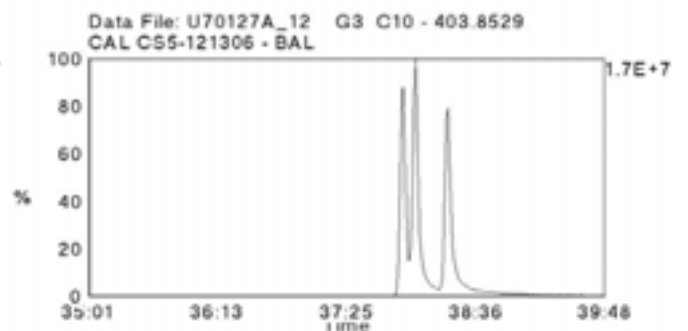
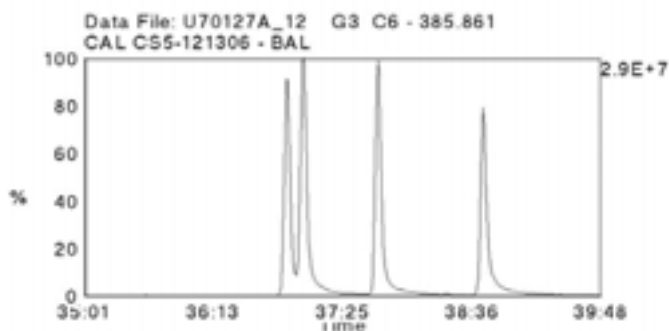
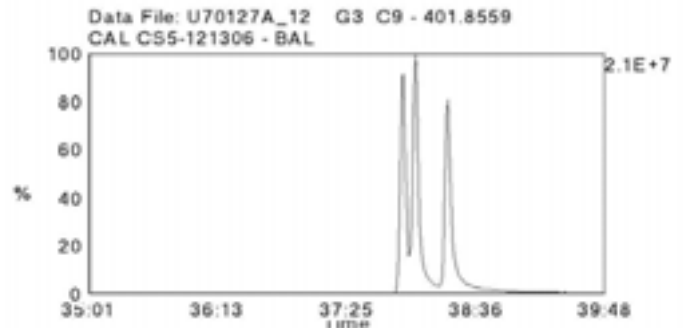
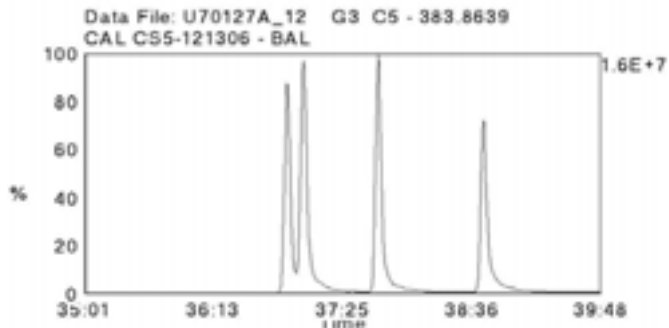
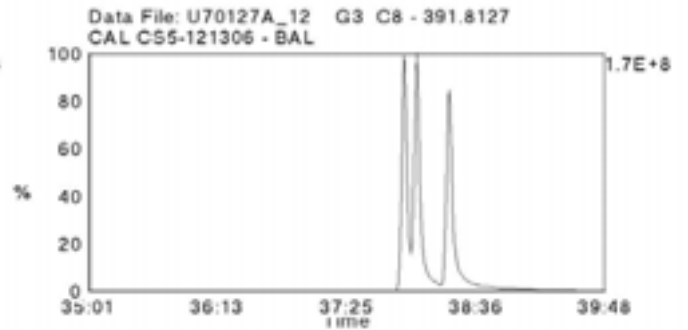
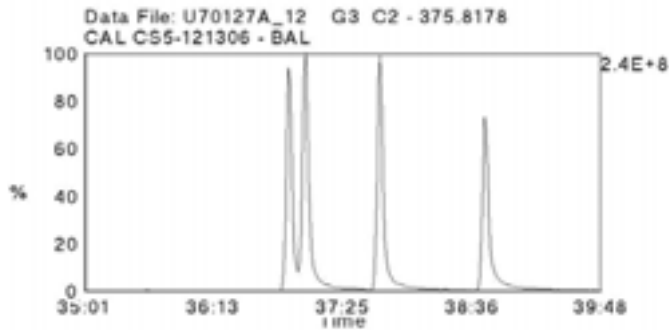
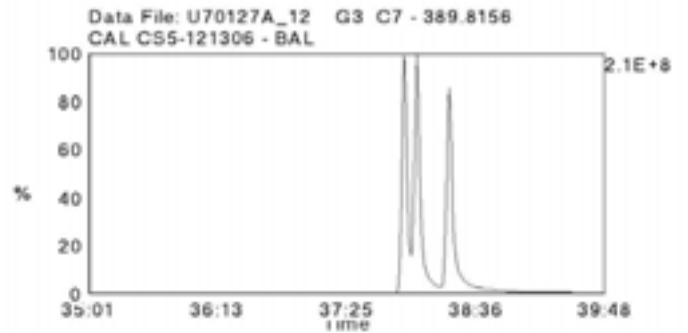
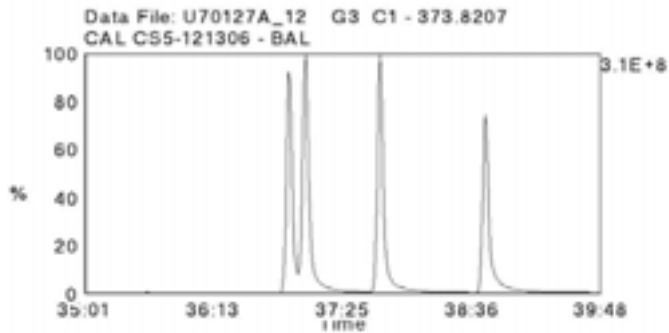
Data File Name: U70127A\_12  
Date Acquired: 1/28/2007  
Sample Description: CAL CS5-121306 - BAL

Lab Sample ID: CS5-032406  
Client Sample ID: CS-5  
Instrument: 10MSHR06 (U)



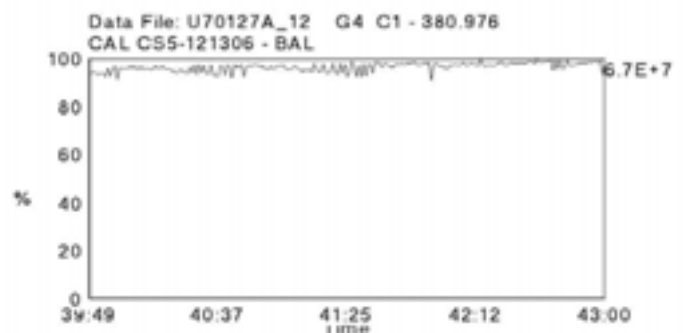
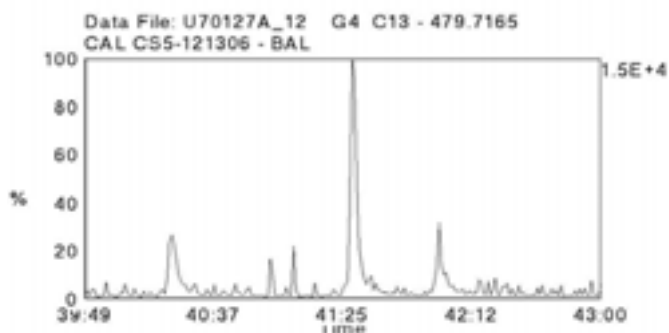
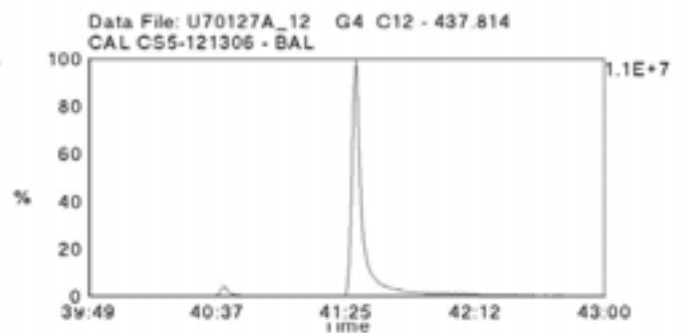
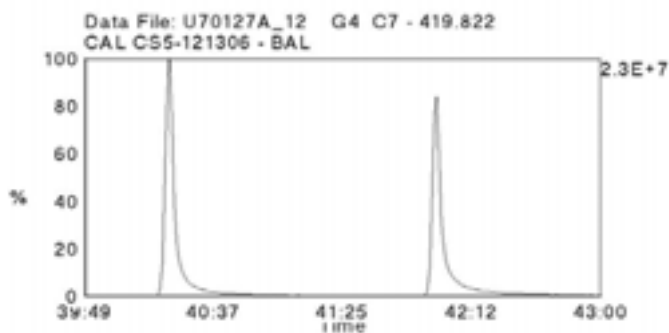
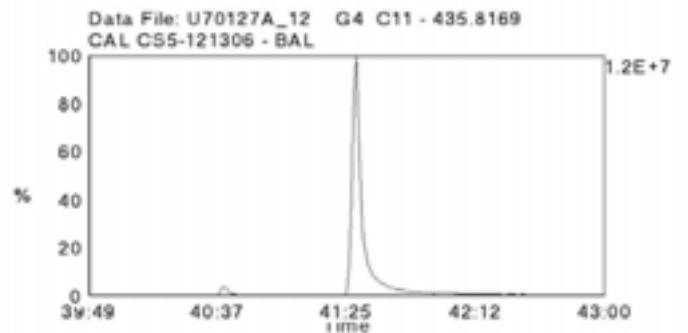
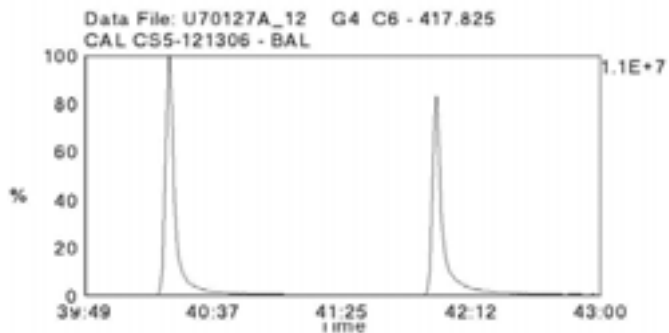
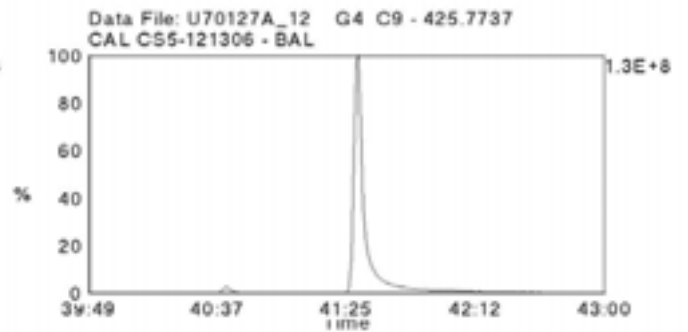
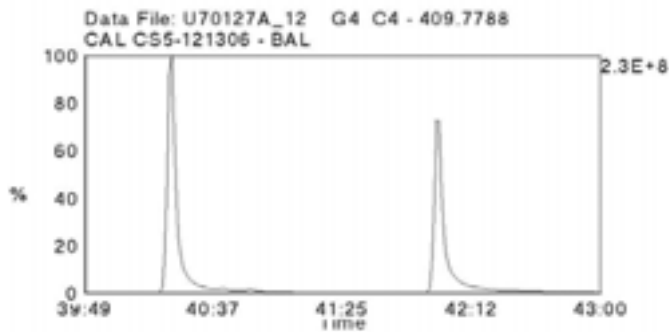
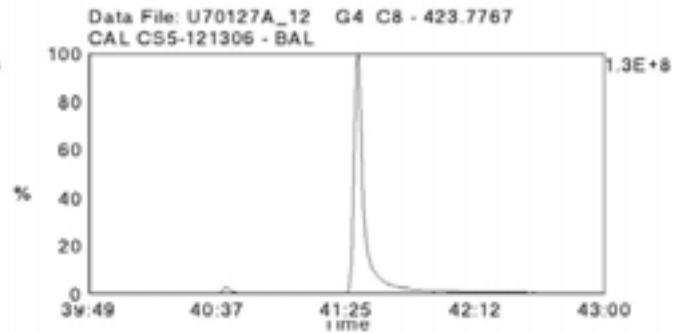
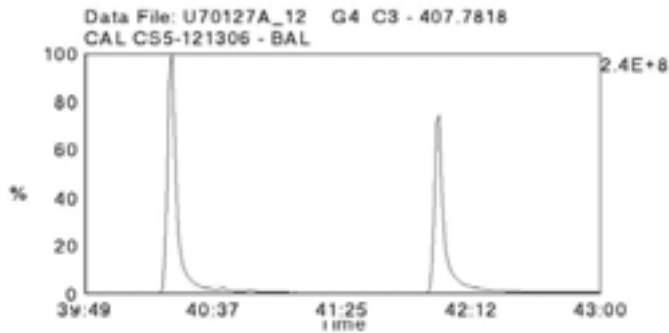
Data File Name: U70127A\_12  
Date Acquired: 1/28/2007  
Sample Description: CAL CS5-121306 - BAL

Lab Sample ID: CS5-032406  
Client Sample ID: CS-5  
Instrument: 10MSHR06 (U)



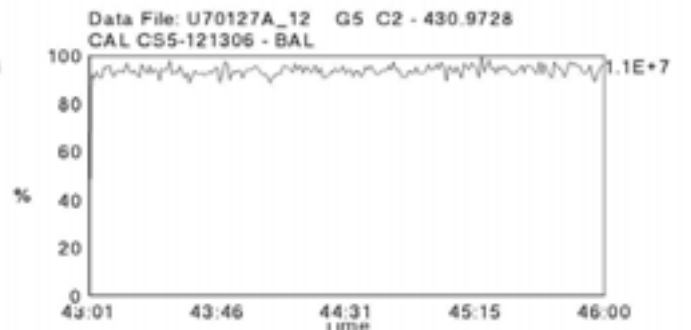
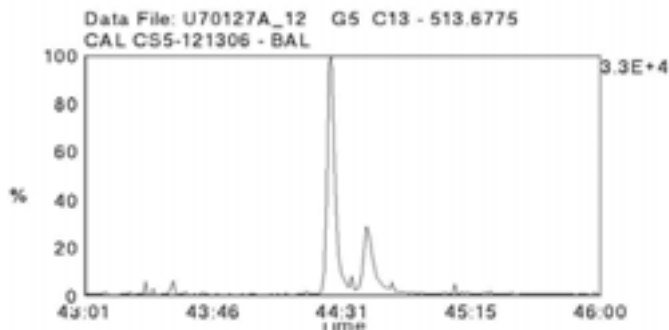
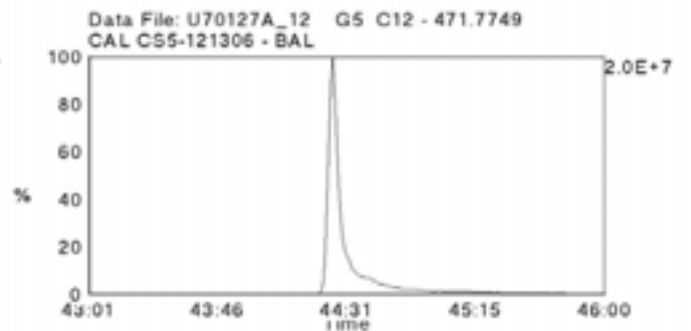
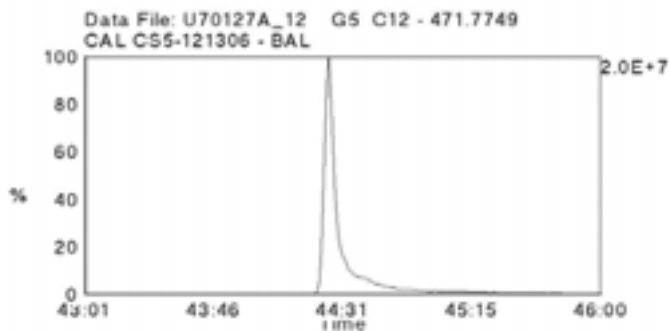
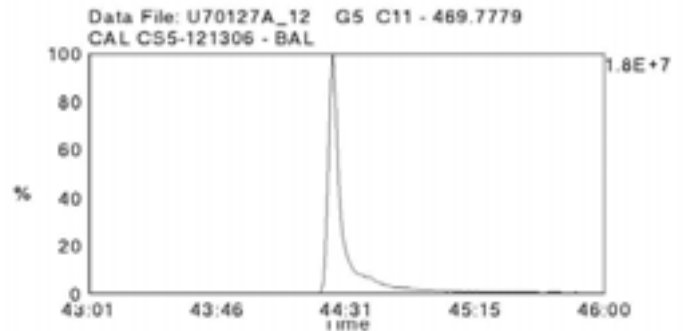
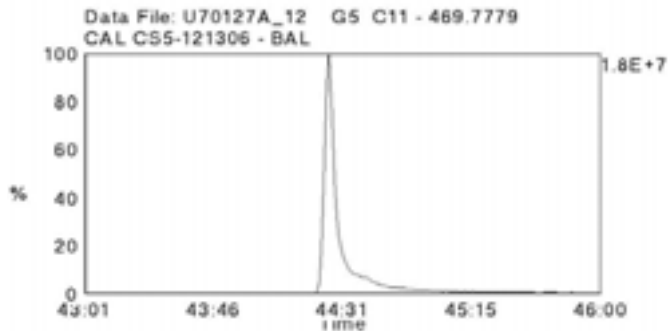
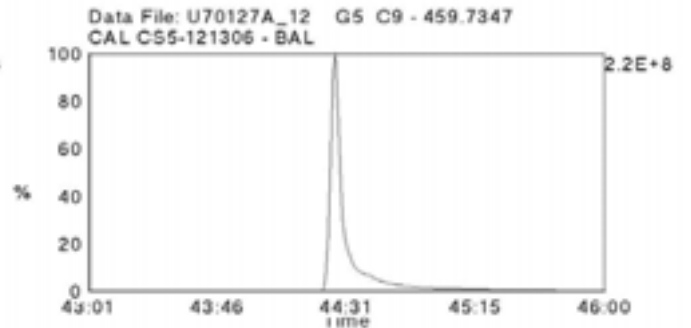
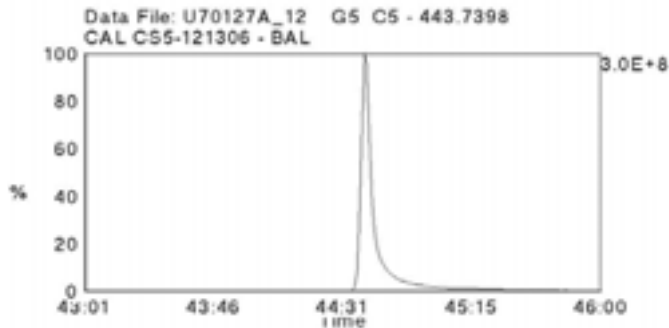
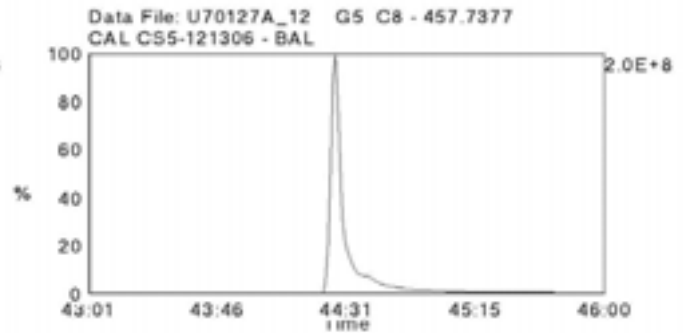
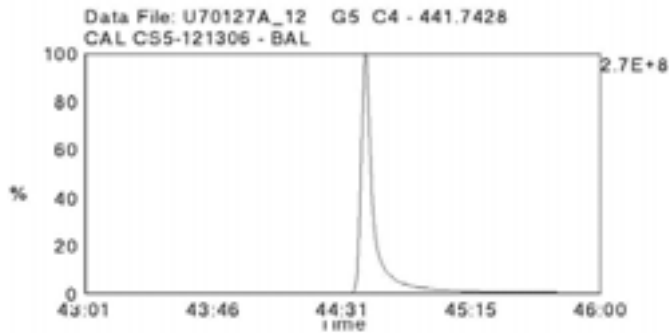
Data File Name: U70127A\_12  
Date Acquired: 1/28/2007  
Sample Description: CAL CS5-121306 - BAL

Lab Sample ID: CS5-032406  
Client Sample ID: CS-5  
Instrument: 10MSHR06 (U)



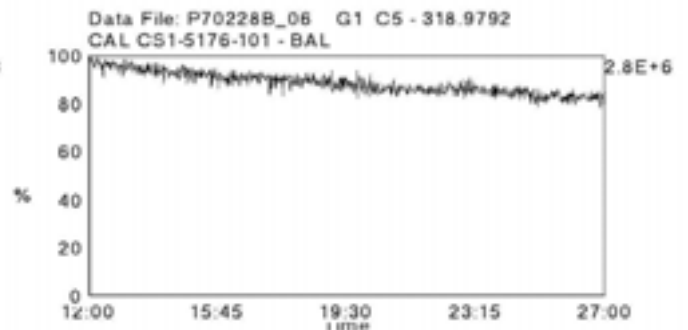
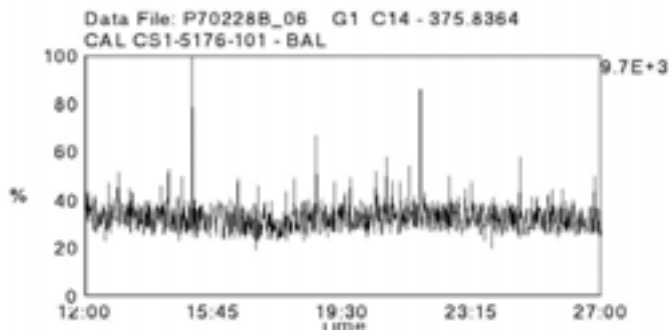
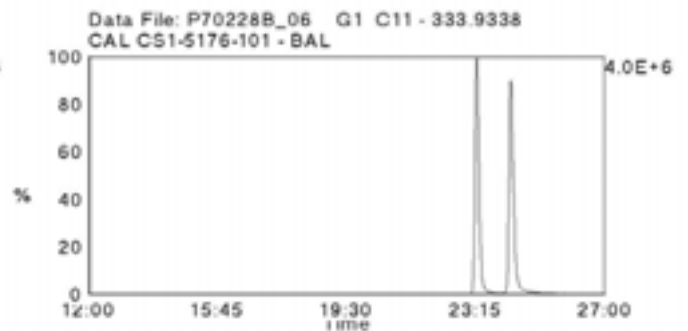
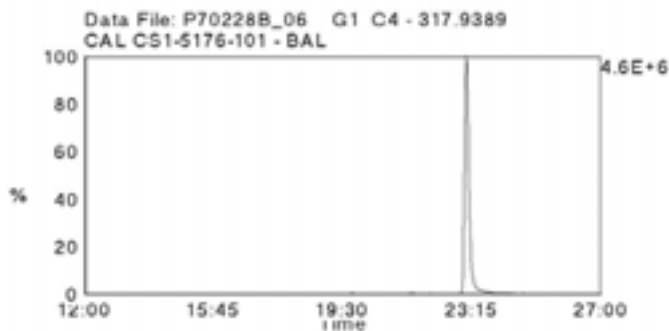
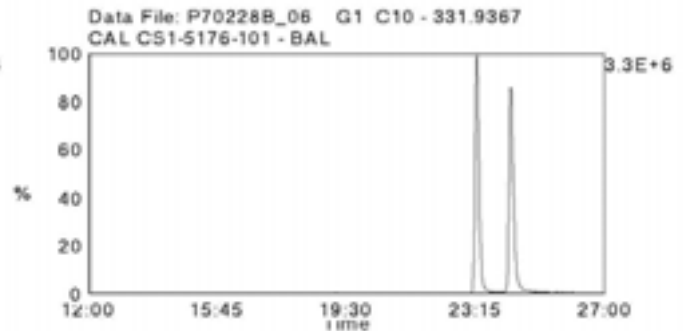
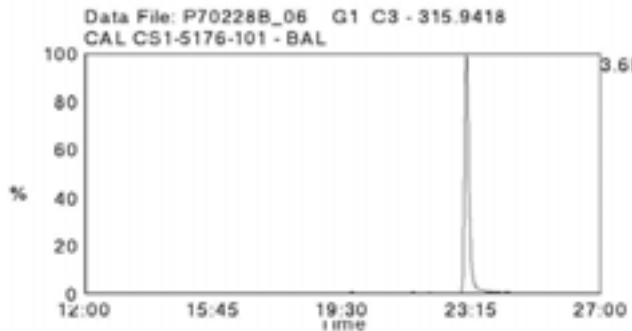
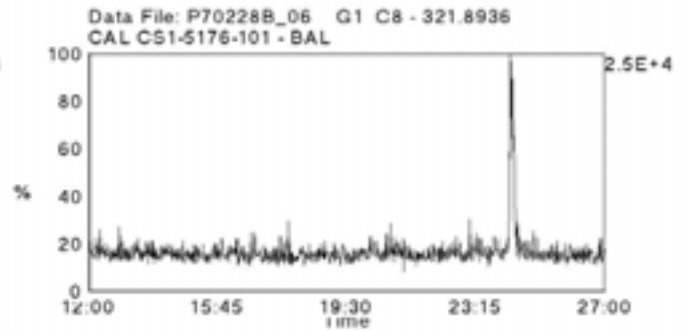
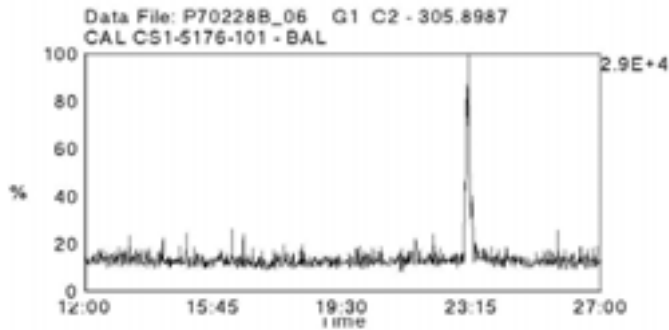
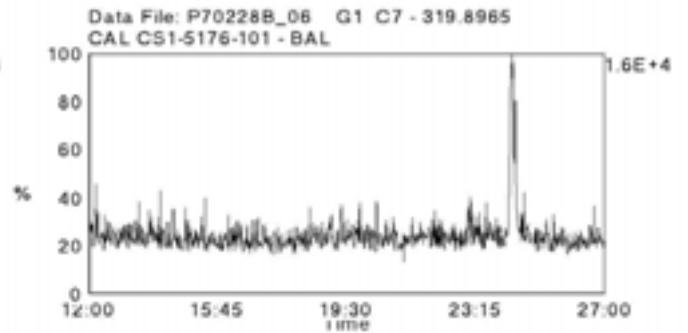
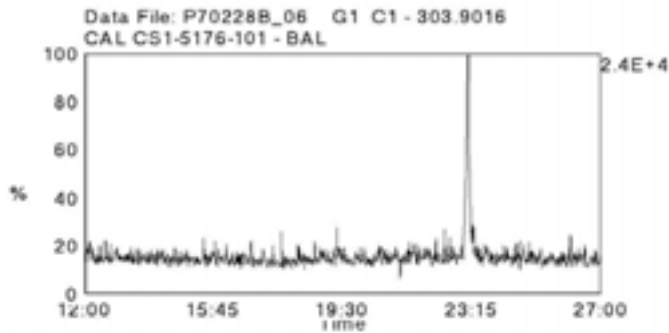
Data File Name: U70127A\_12  
Date Acquired: 1/28/2007  
Sample Description: CAL CS5-121306 - BAL

Lab Sample ID: CS5-032406  
Client Sample ID: CS-5  
Instrument: 10MSHR06 (U)



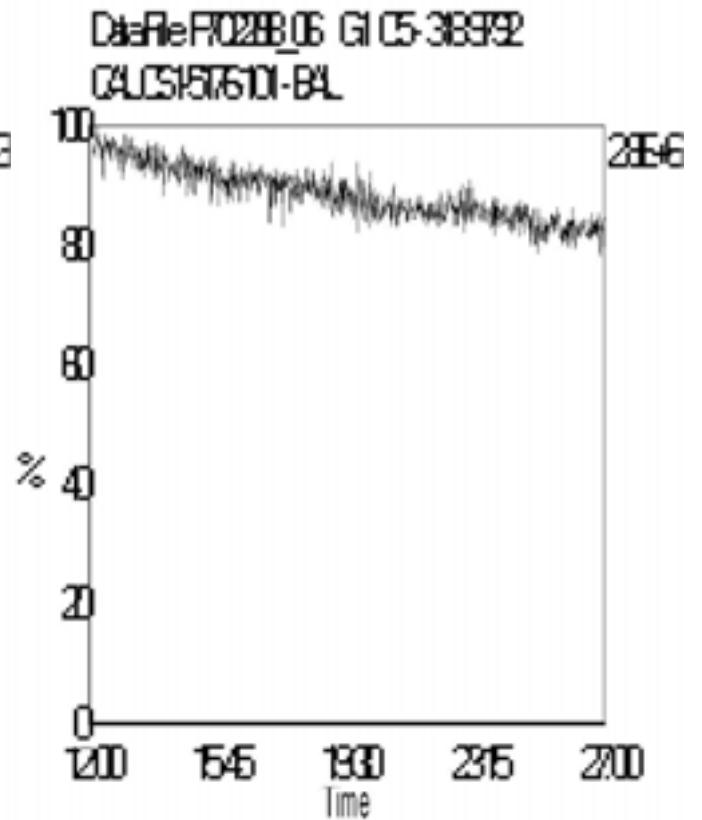
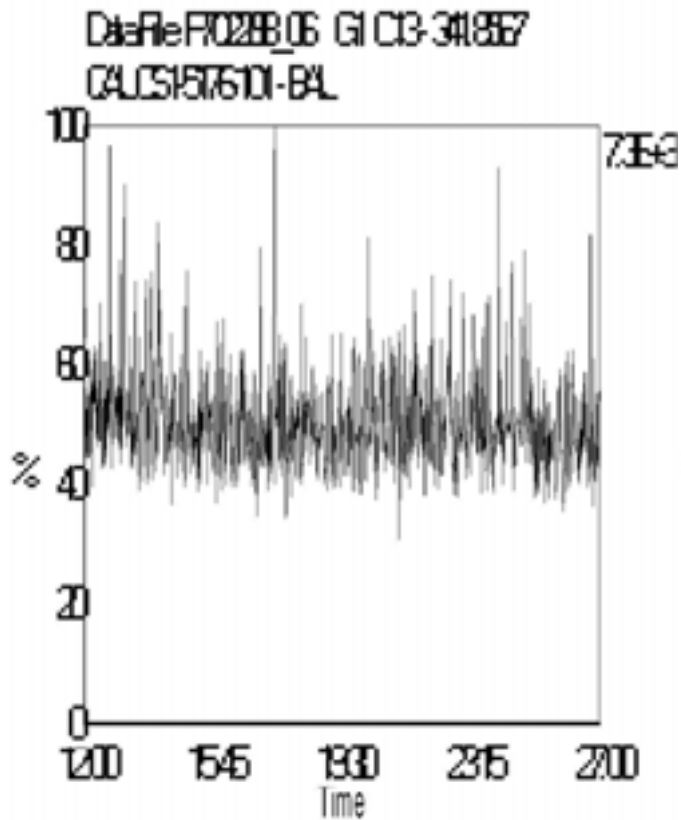
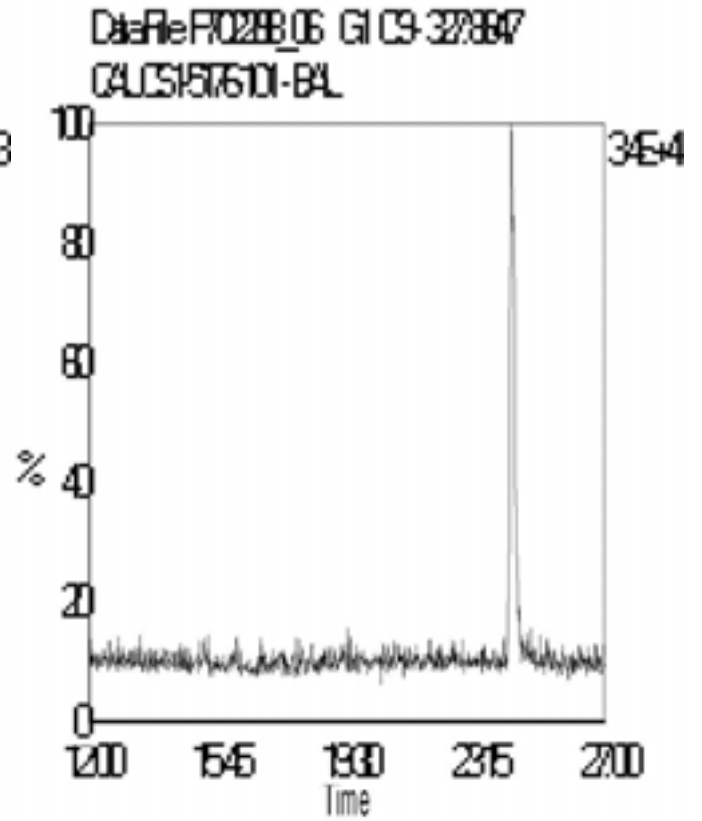
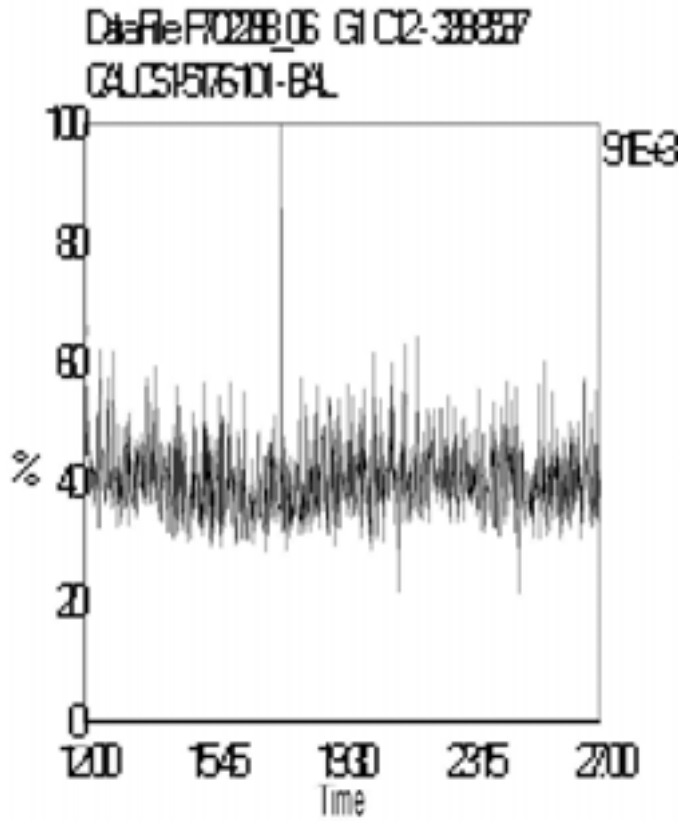
Data File Name: P70228B\_06  
Date Acquired: 2/28/2007  
Sample Description: CAL CS1-5176-101 - BAL

Lab Sample ID: CS1-5176-101  
Client Sample ID: CS-1  
Instrument: 10MSHR09 (P)



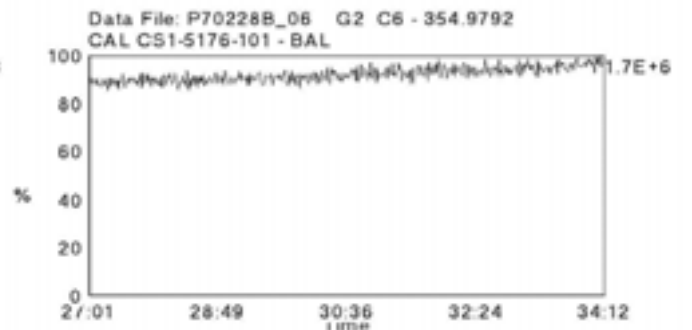
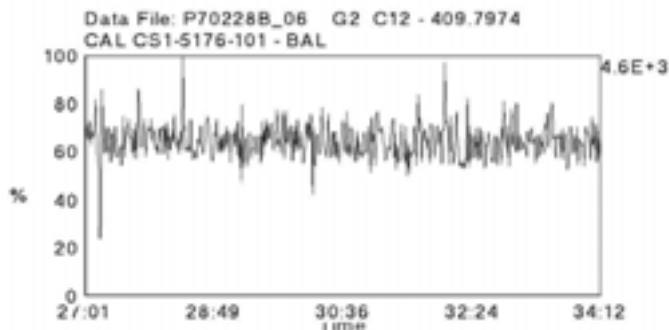
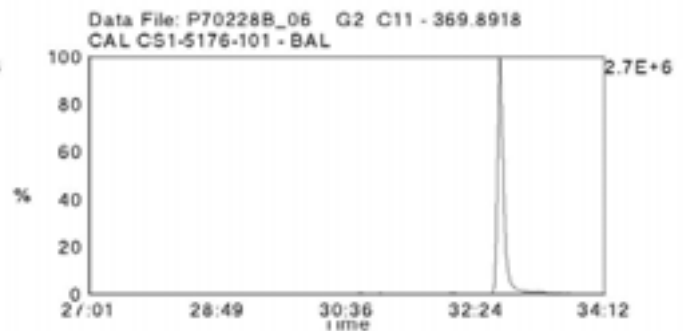
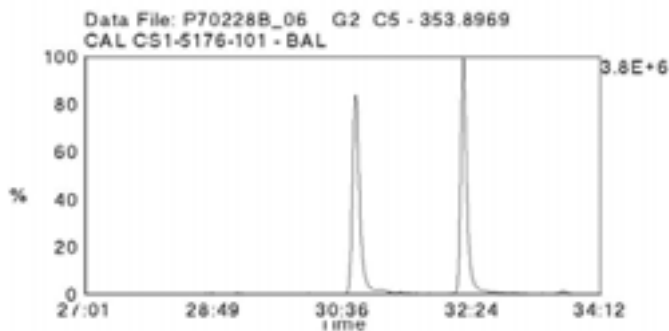
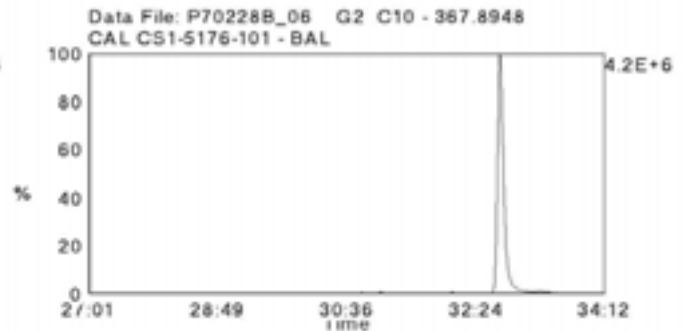
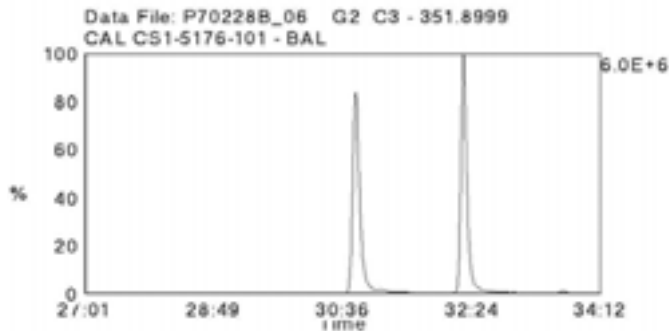
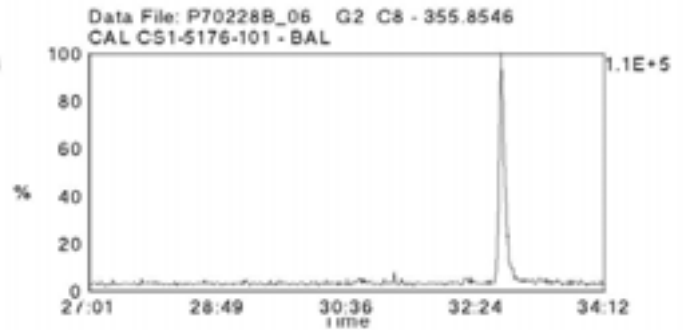
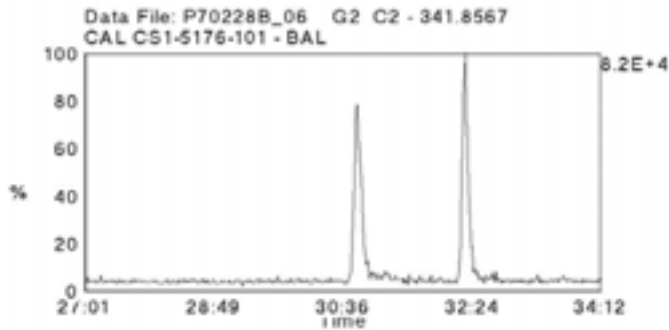
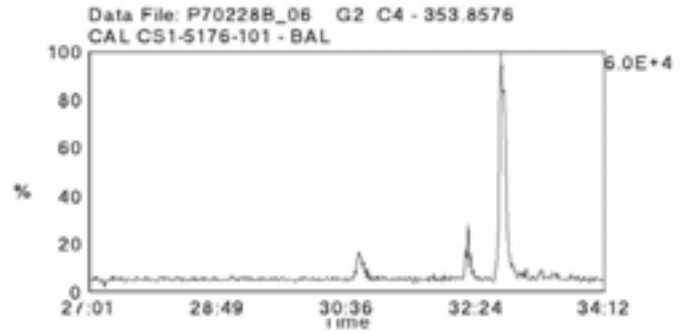
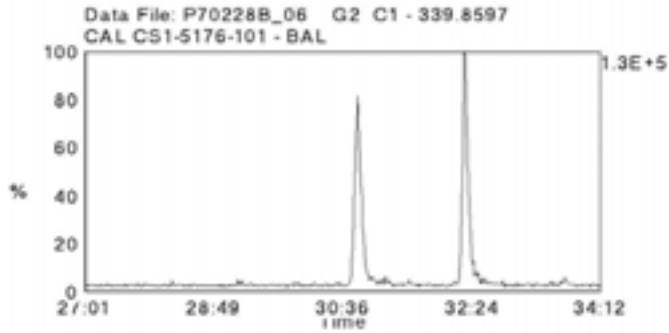
Data File Name: P70228B\_06  
Date Acquired: 2/28/2007  
Sample Description: CAL CS1-5176-101 - BAL

Lab Sample ID: CS1-5176-101  
Client Sample ID: CS-1  
Instrument: 10MSHR09 (P)



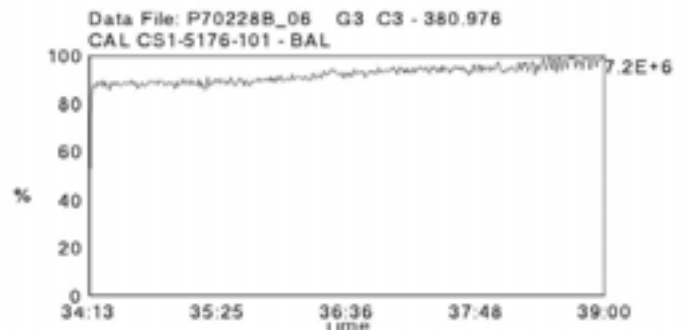
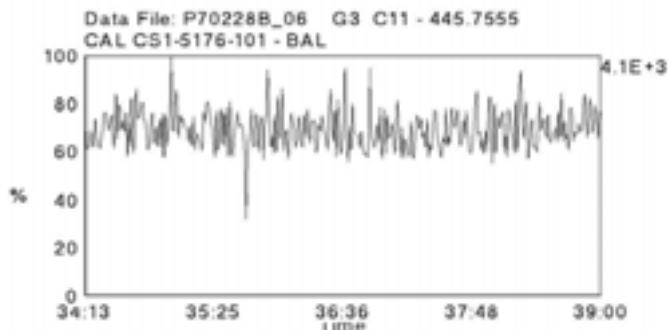
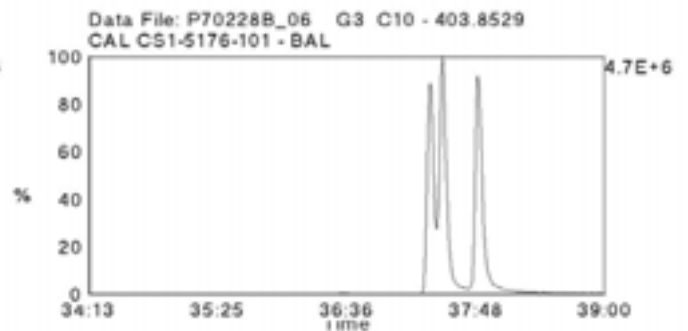
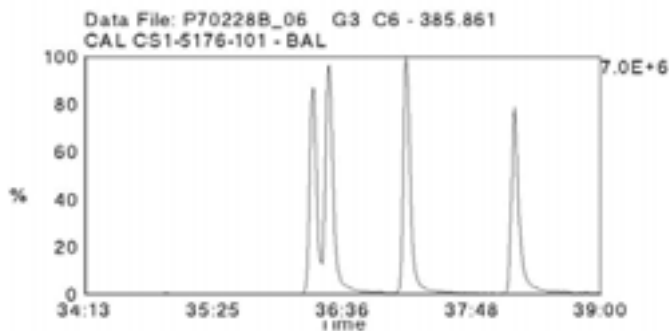
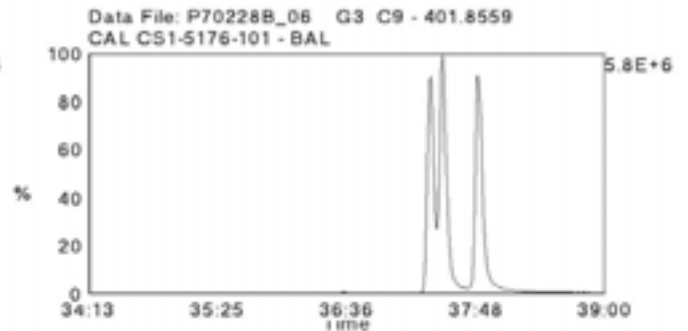
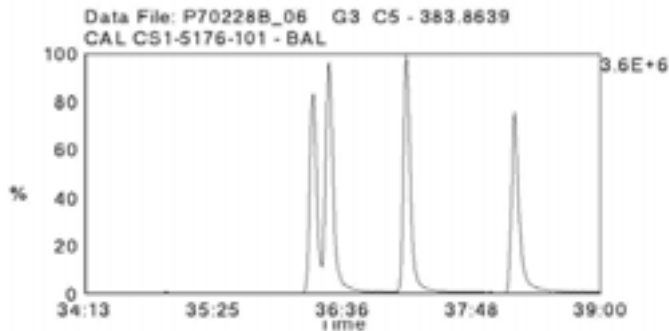
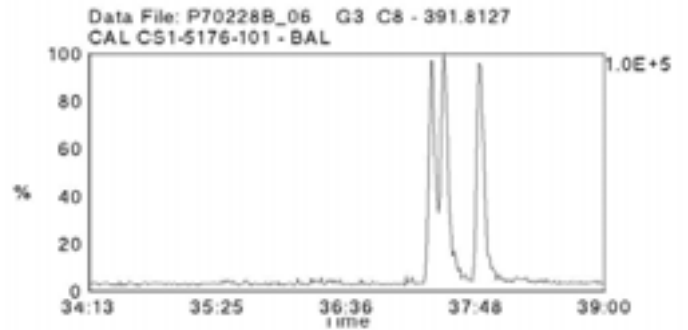
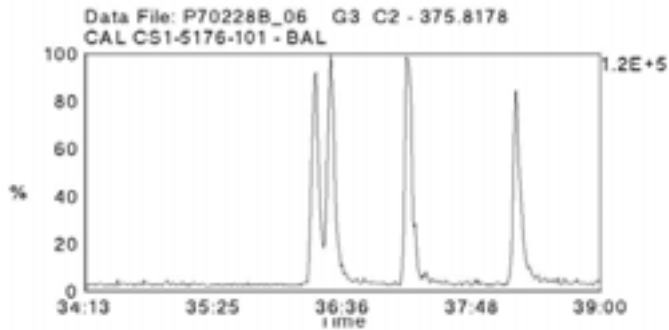
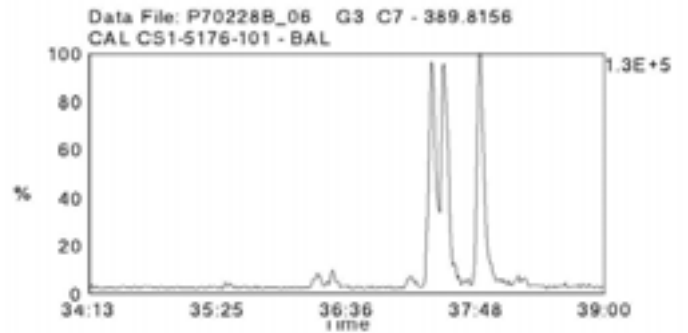
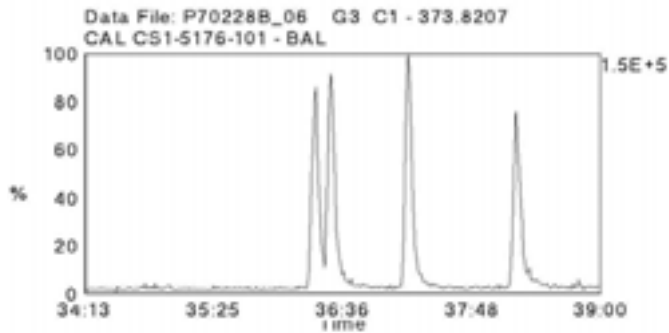
Data File Name: P70228B\_06  
Date Acquired: 2/28/2007  
Sample Description: CAL CS1-5176-101 - BAL

Lab Sample ID: CS1-5176-101  
Client Sample ID: CS-1  
Instrument: 10MSHR09 (P)



Data File Name: P70228B\_06  
Date Acquired: 2/28/2007  
Sample Description: CAL CS1-5176-101 - BAL

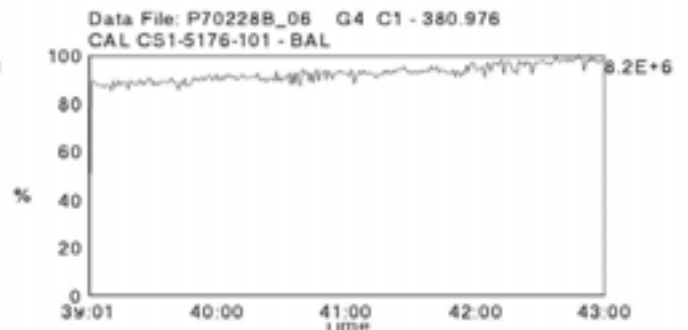
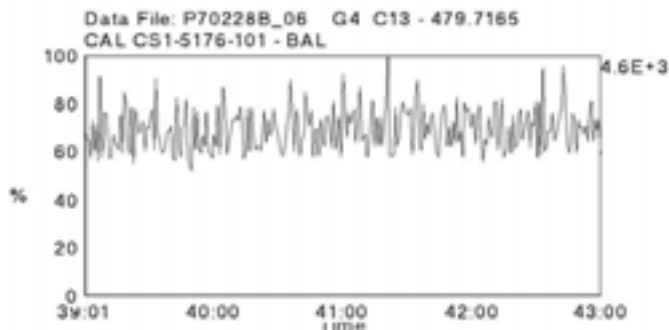
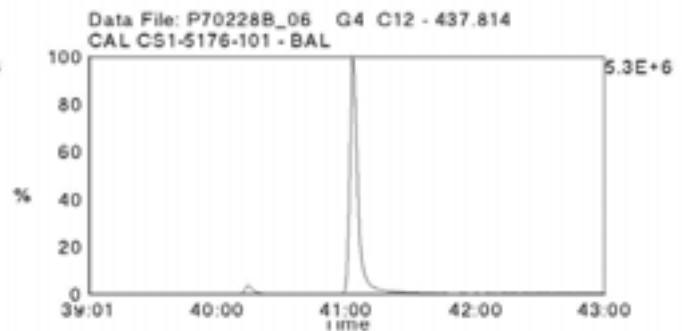
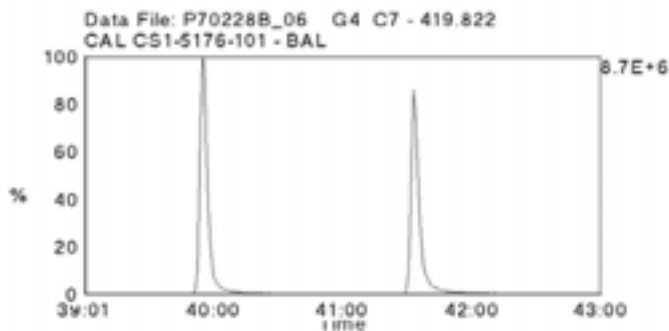
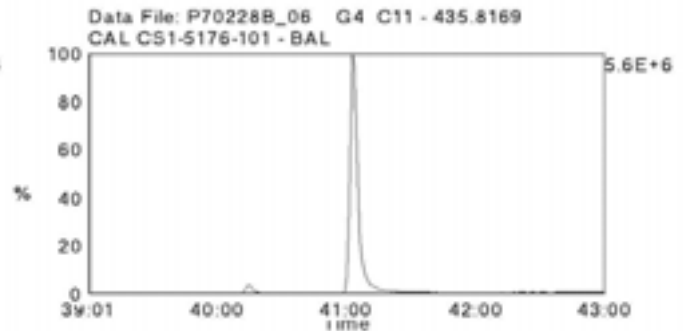
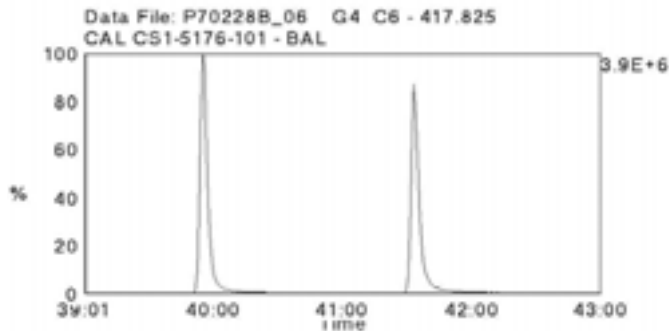
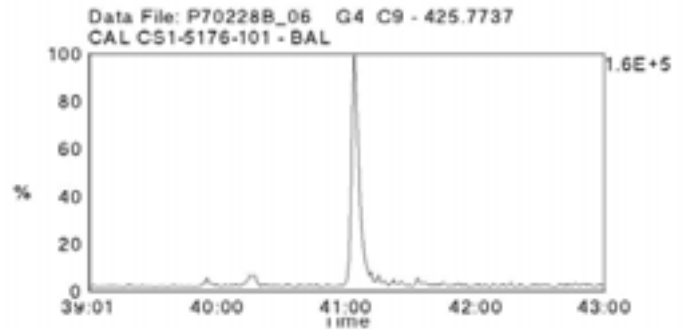
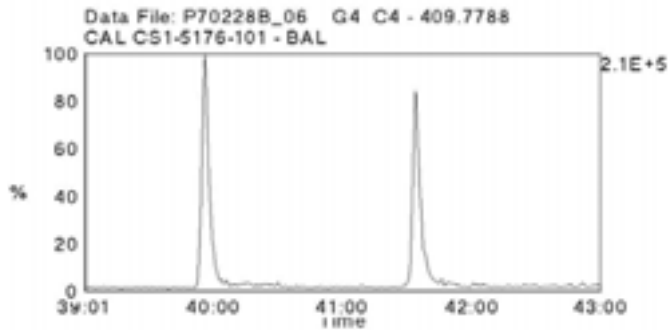
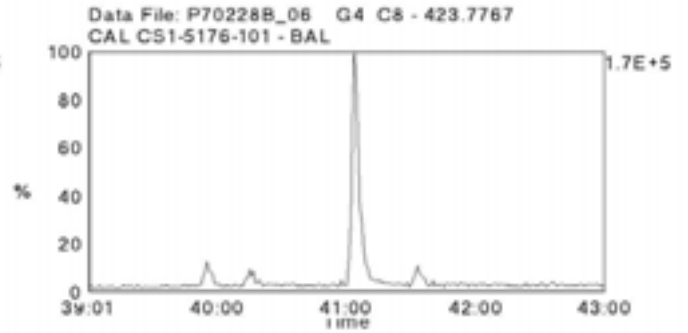
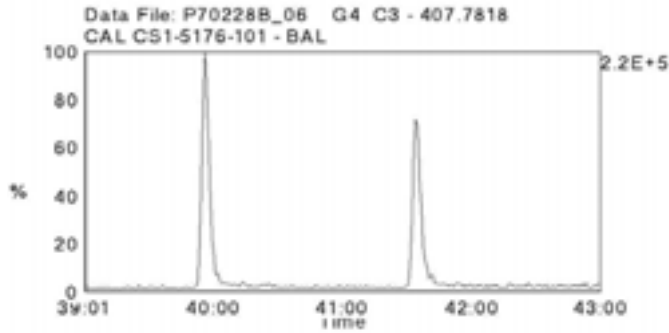
Lab Sample ID: CS1-5176-101  
Client Sample ID: CS-1  
Instrument: 10MSHR09 (P)





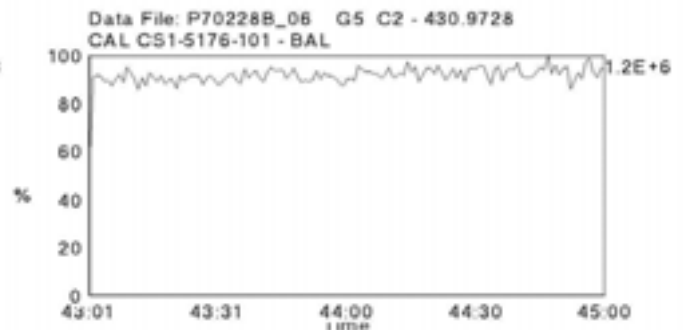
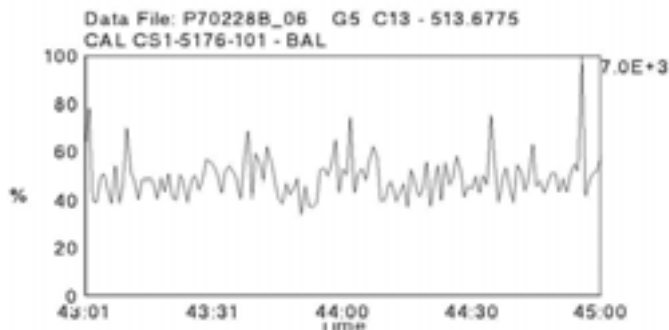
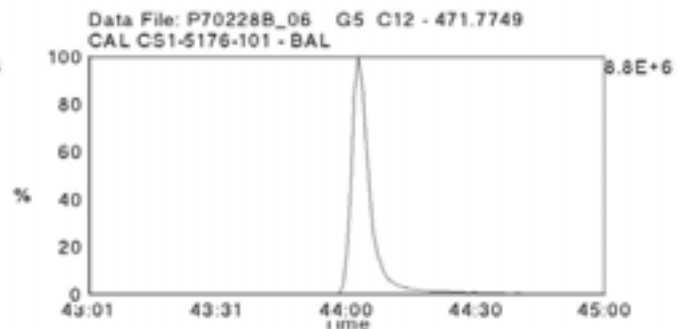
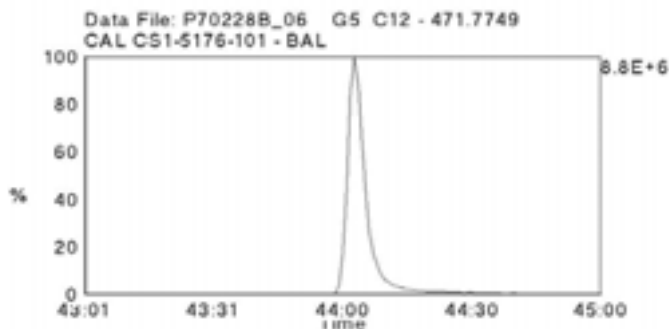
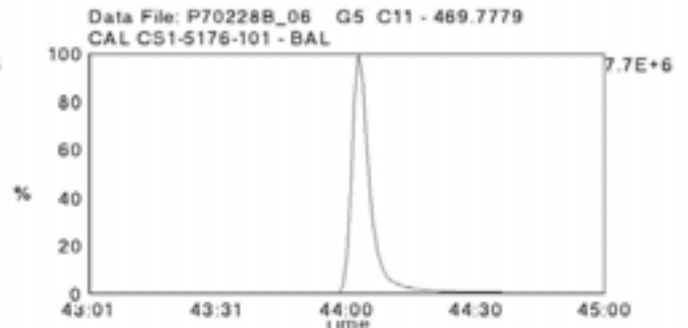
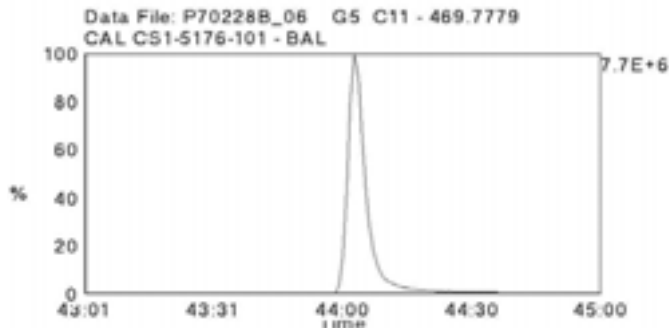
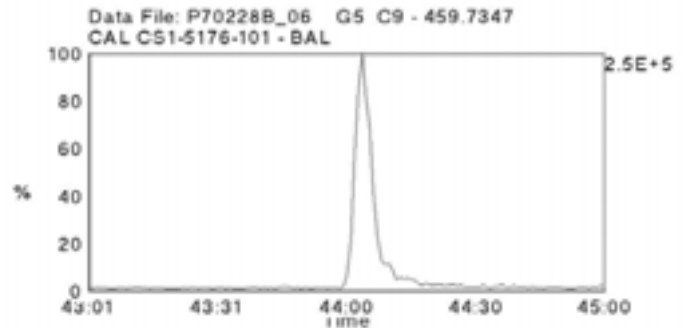
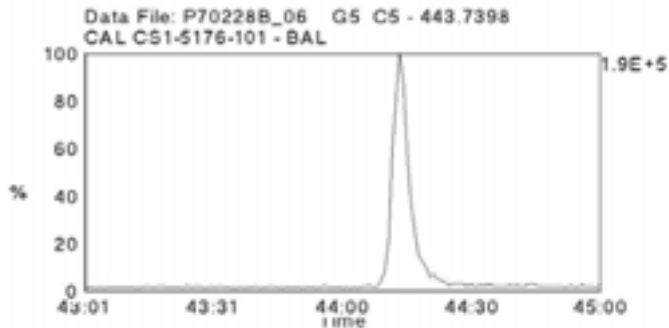
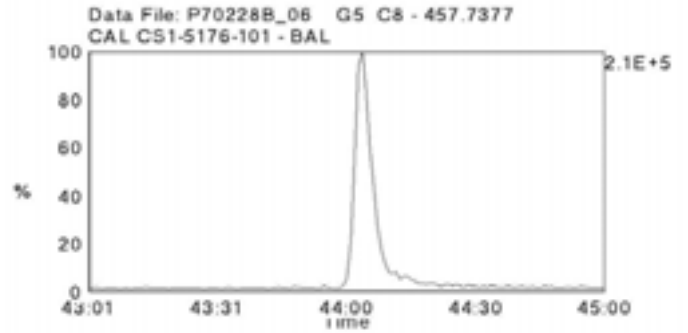
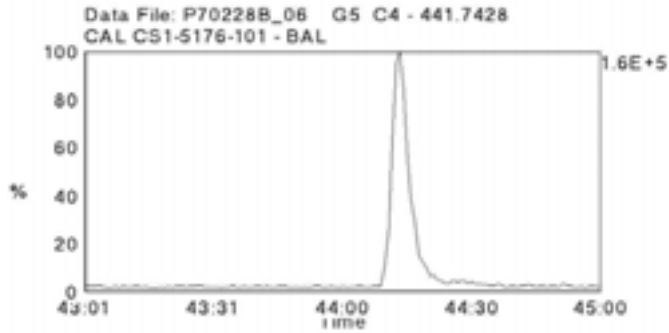
Data File Name: P70228B\_06  
Date Acquired: 2/28/2007  
Sample Description: CAL CS1-5176-101 - BAL

Lab Sample ID: CS1-5176-101  
Client Sample ID: CS-1  
Instrument: 10MSHR09 (P)



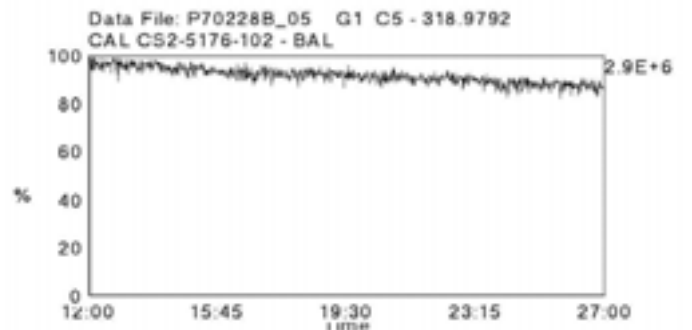
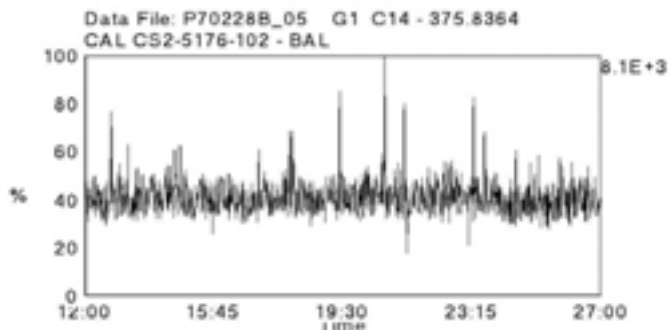
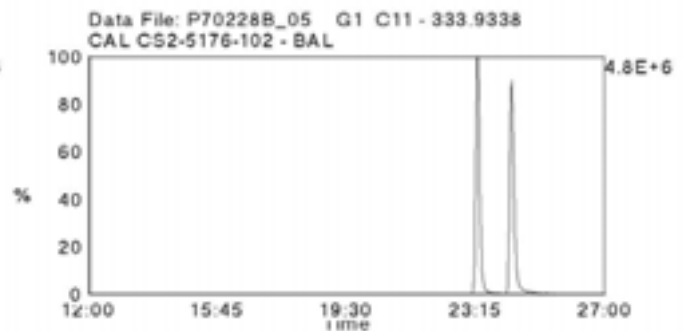
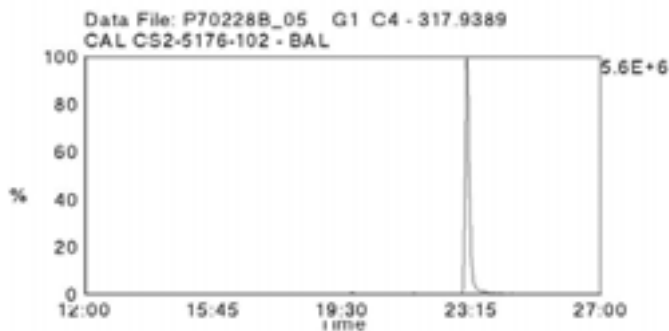
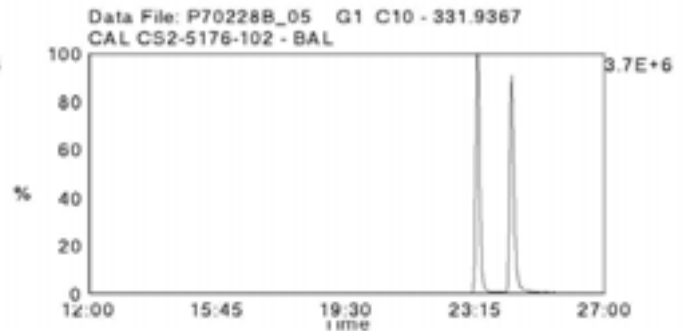
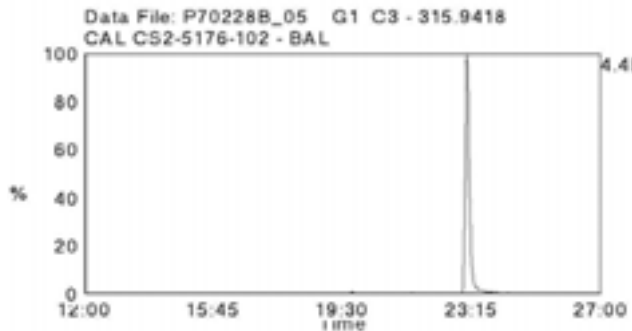
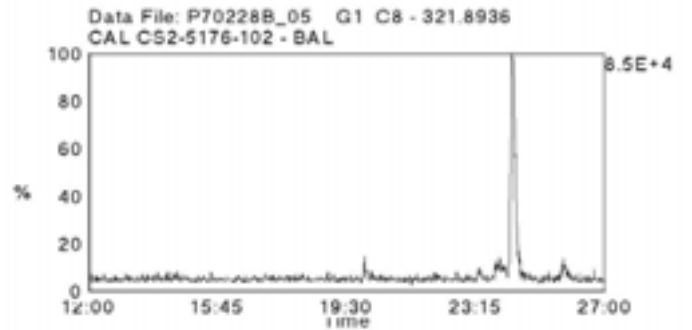
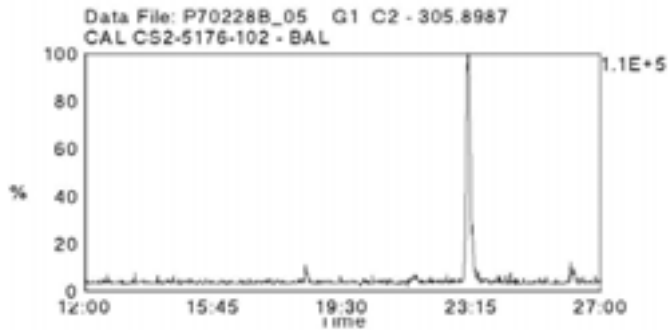
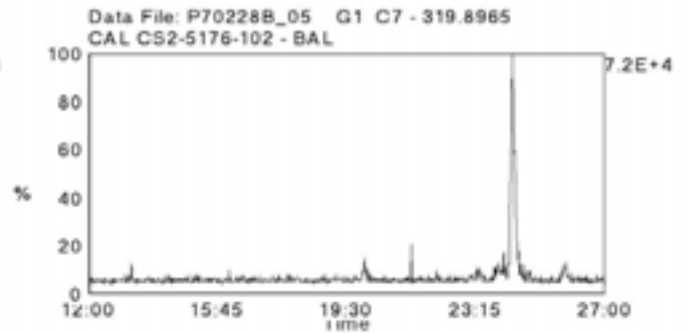
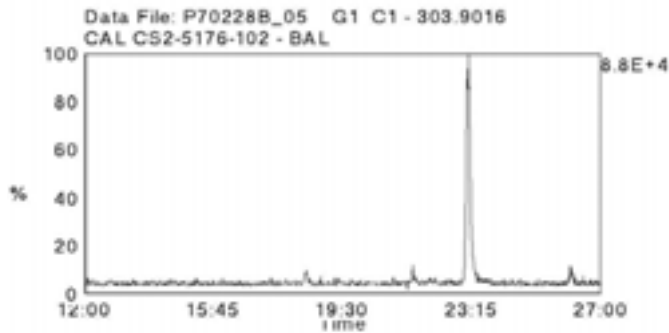
Data File Name: P70228B\_06  
Date Acquired: 2/28/2007  
Sample Description: CAL CS1-5176-101 - BAL

Lab Sample ID: CS1-5176-101  
Client Sample ID: CS-1  
Instrument: 10MSHR09 (P)



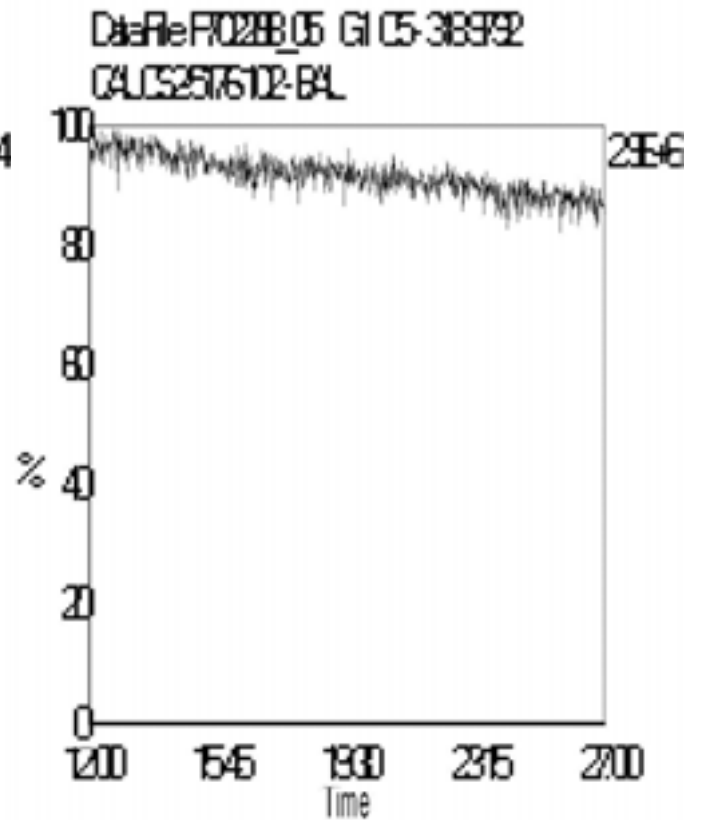
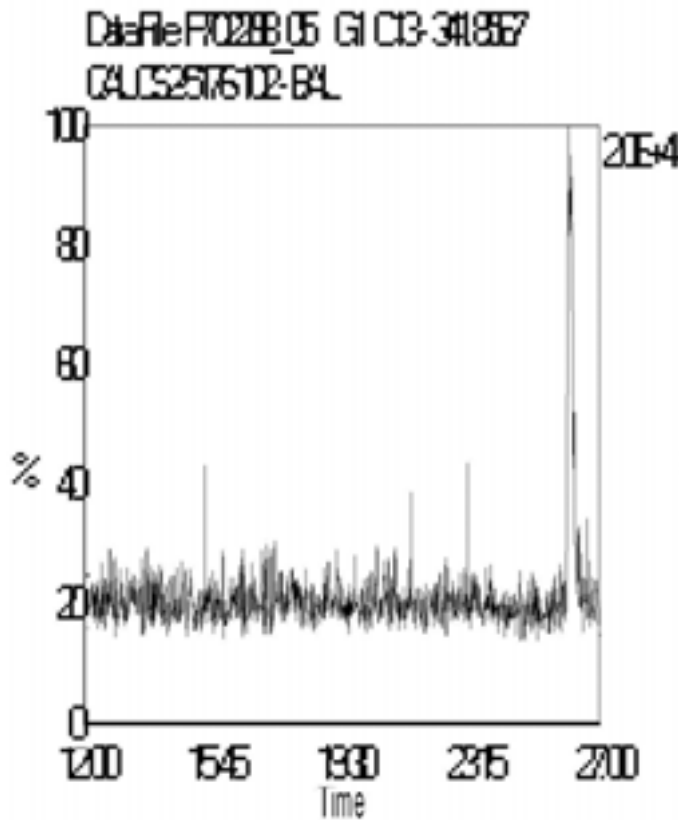
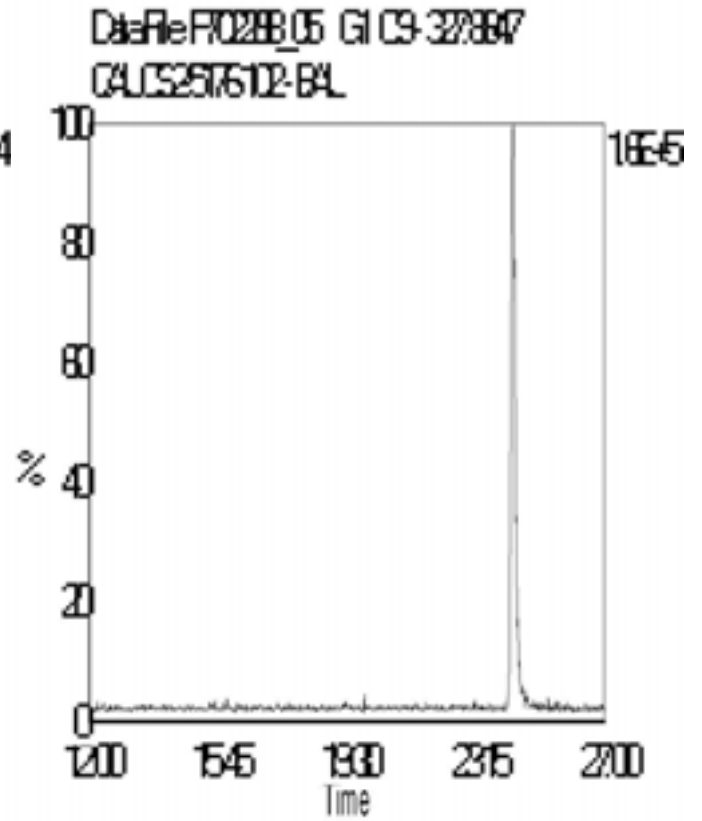
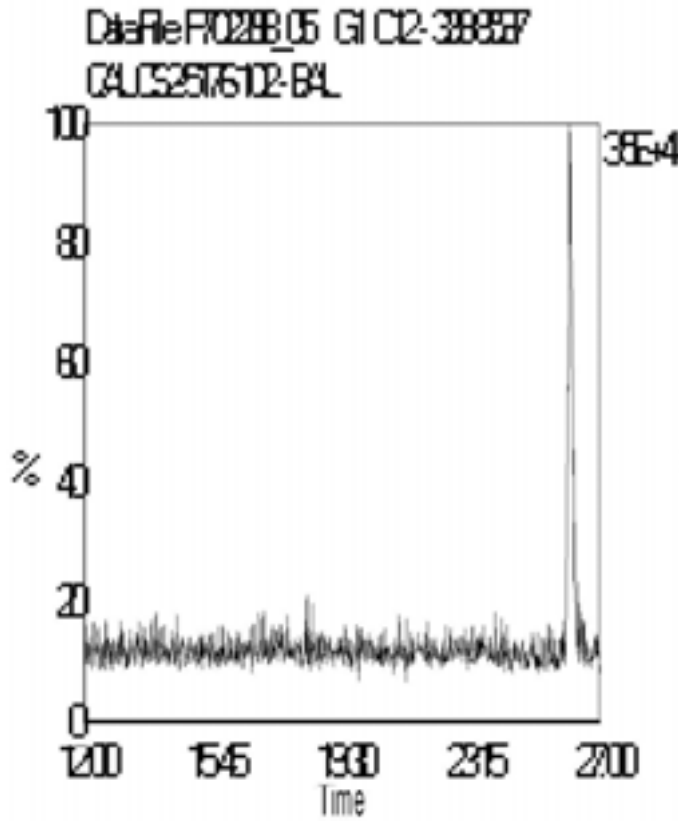
Data File Name: P70228B\_05  
Date Acquired: 2/28/2007  
Sample Description: CAL CS2-5176-102 - BAL

Lab Sample ID: CS2-5176-102  
Client Sample ID: CS-2  
Instrument: 10MSHR09 (P)



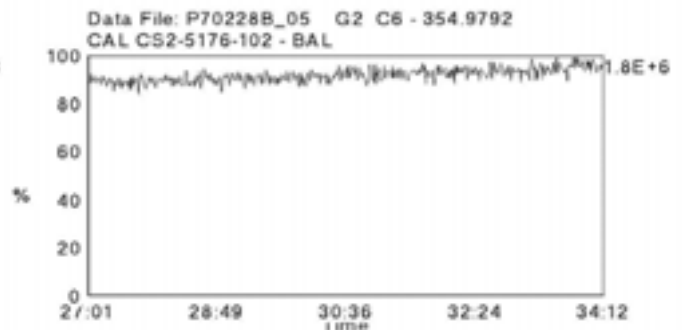
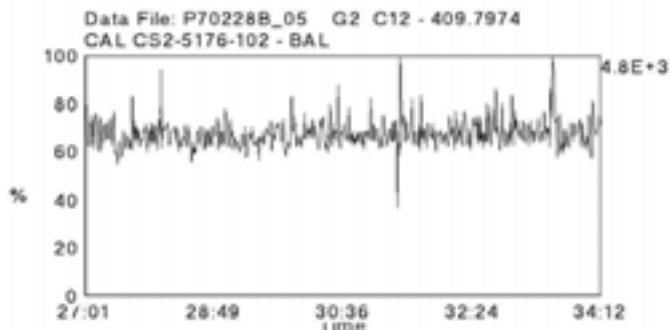
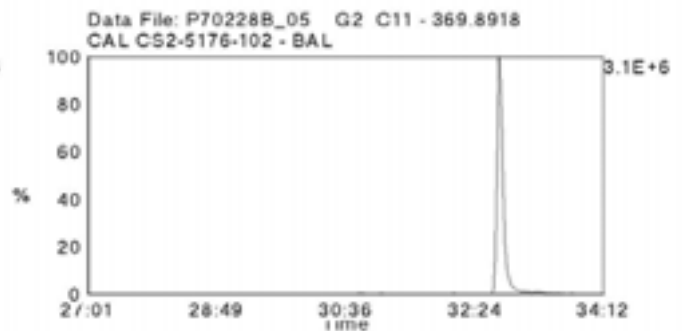
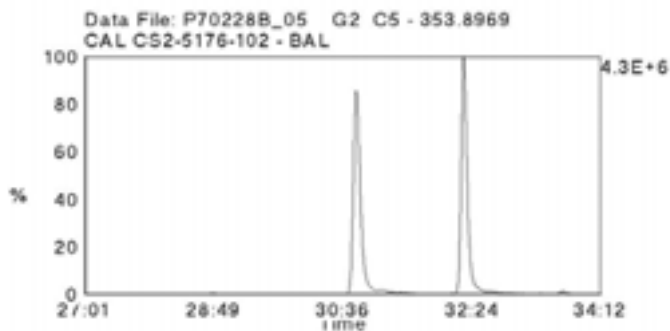
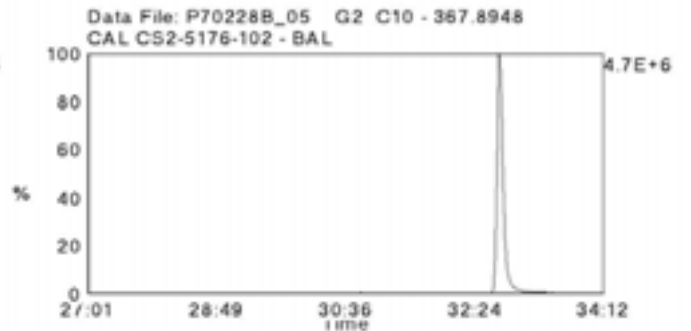
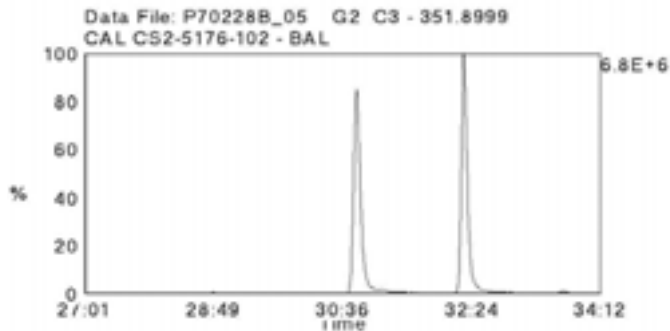
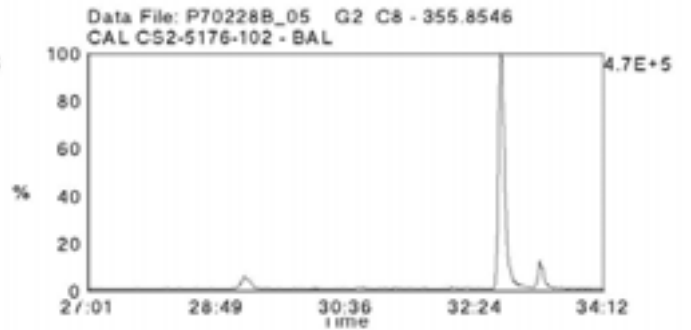
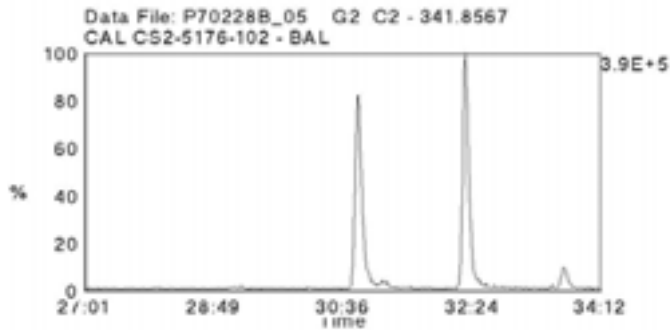
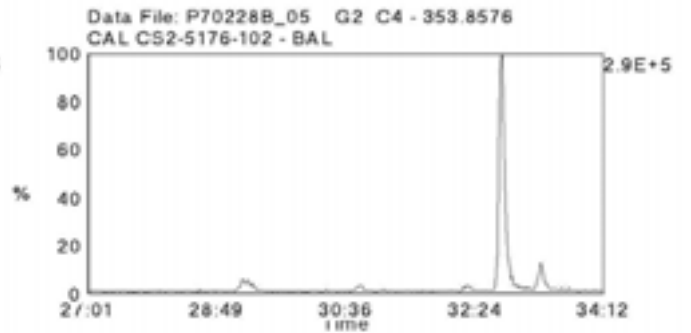
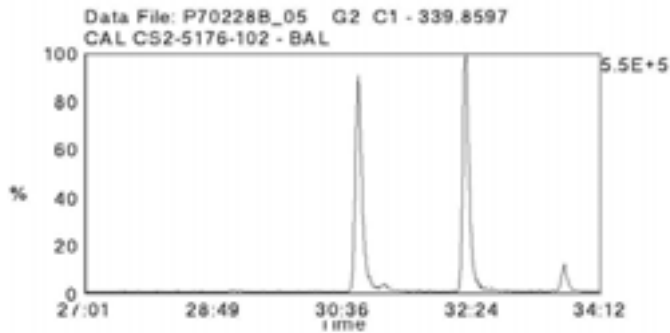
Data File Name: P70228B\_05  
Date Acquired: 2/28/2007  
Sample Description: CAL CS2-5176-102 - BAL

Lab Sample ID: CS2-5176-102  
Client Sample ID: CS-2  
Instrument: 10MSHR09 (P)



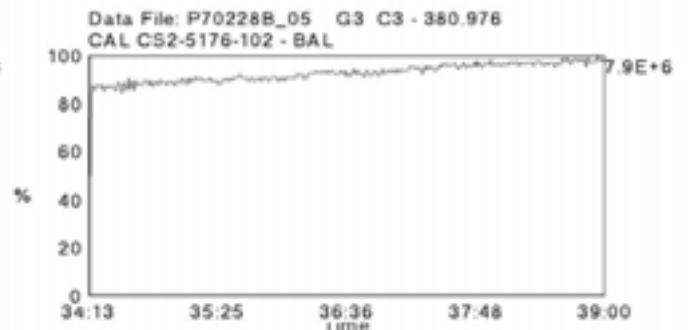
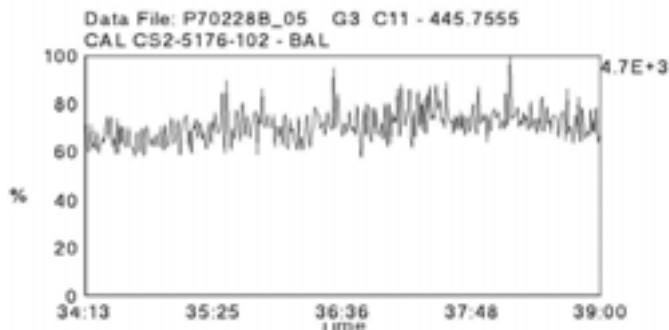
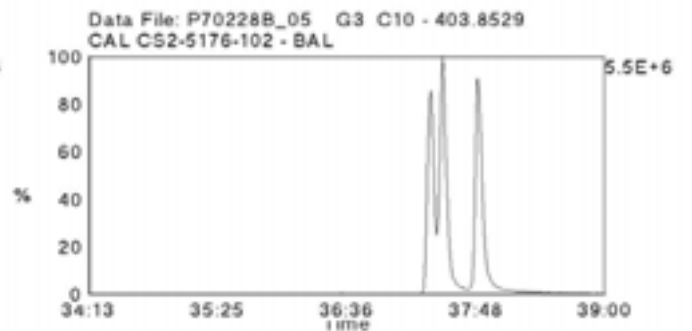
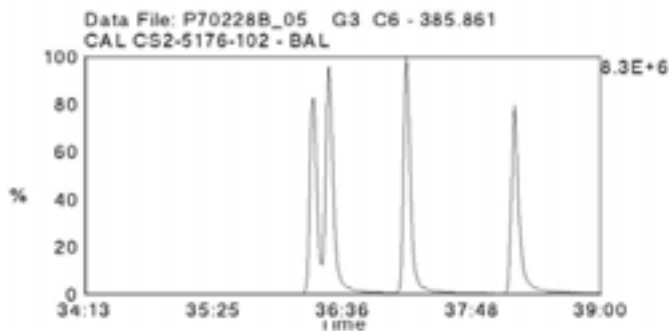
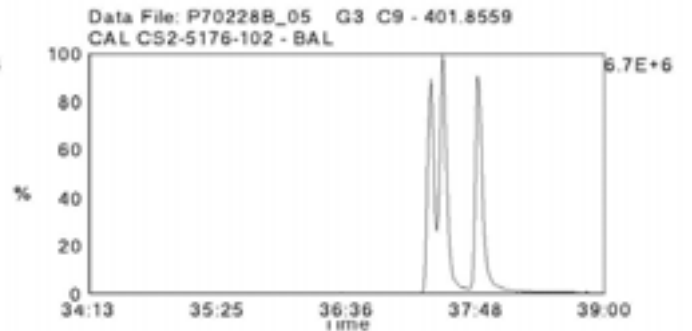
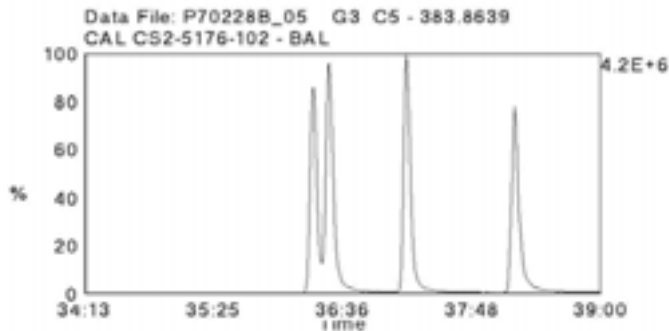
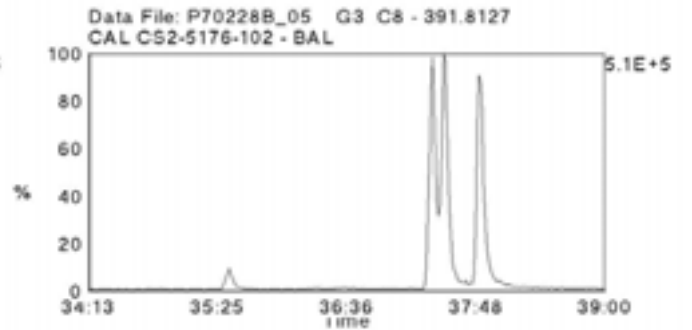
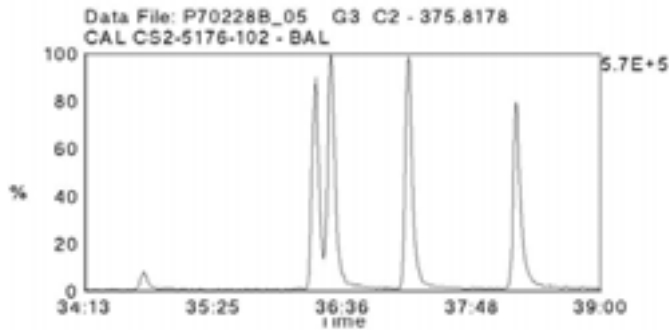
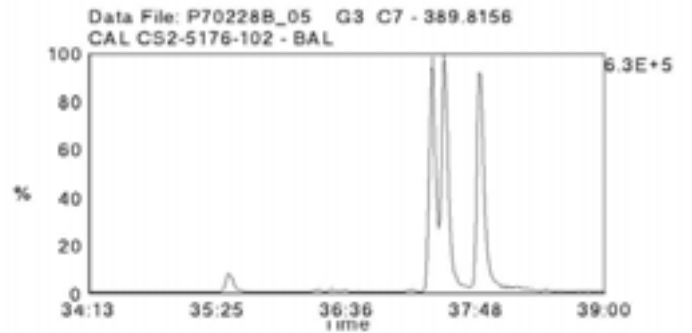
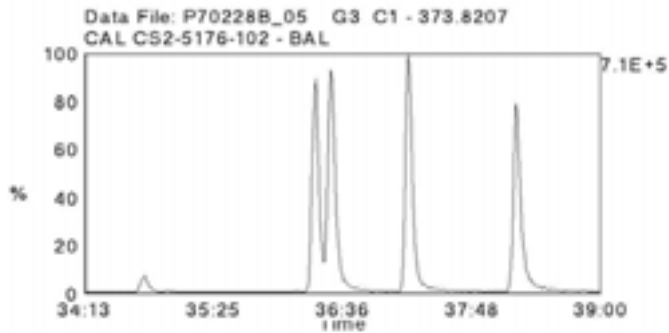
Data File Name: P70228B\_05  
Date Acquired: 2/28/2007  
Sample Description: CAL CS2-5176-102 - BAL

Lab Sample ID: CS2-5176-102  
Client Sample ID: CS-2  
Instrument: 10MSHR09 (P)



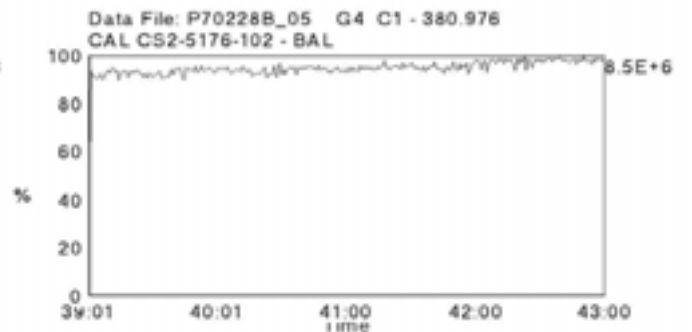
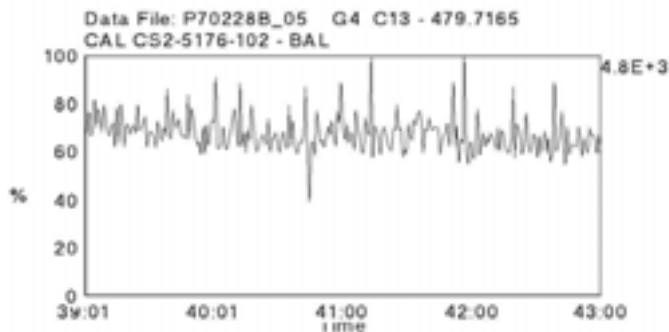
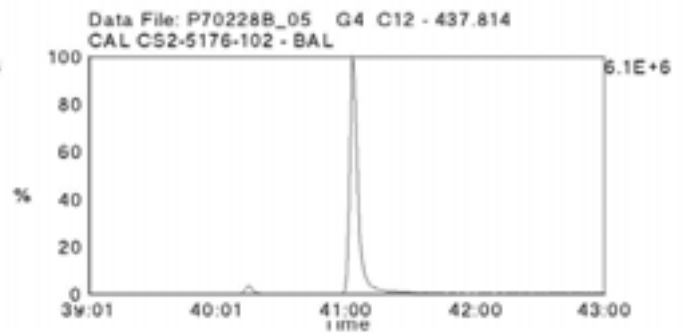
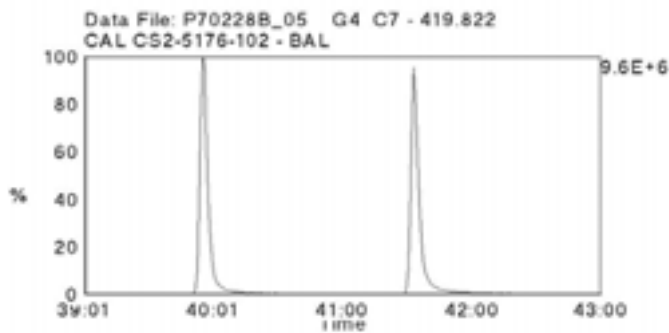
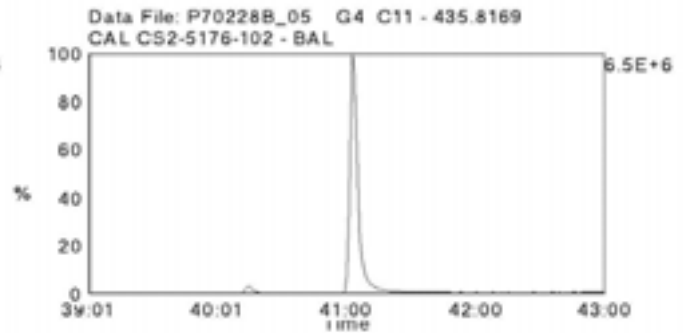
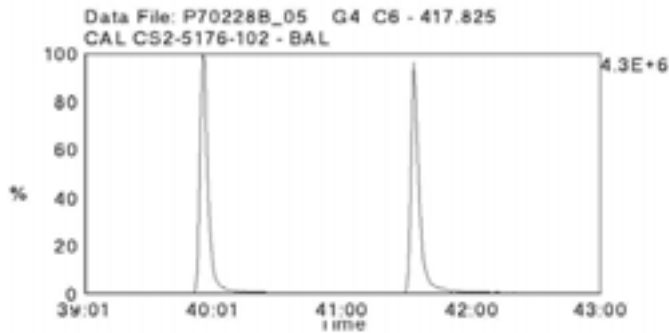
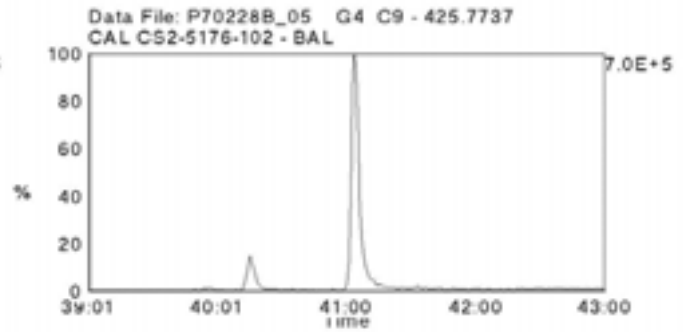
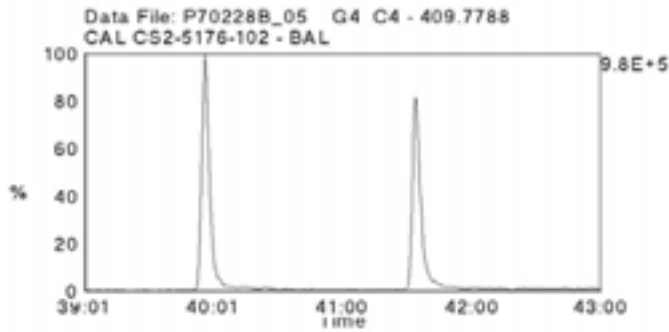
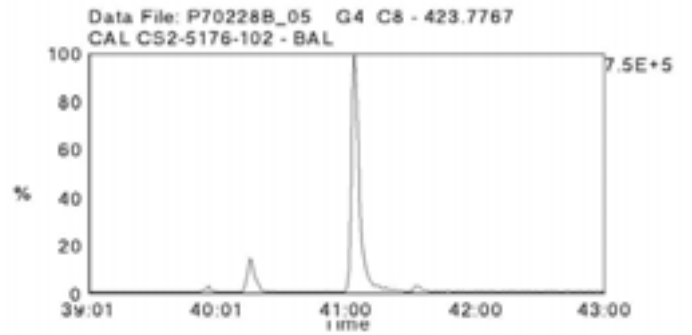
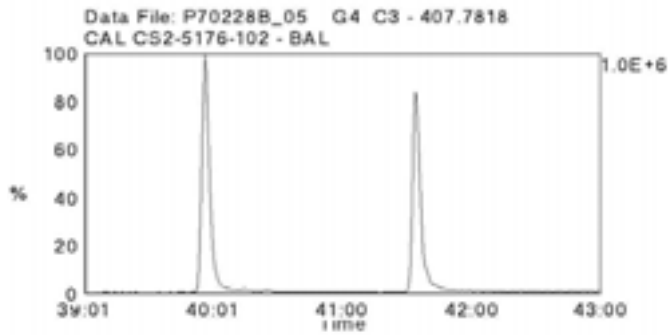
Data File Name: P70228B\_05  
Date Acquired: 2/28/2007  
Sample Description: CAL CS2-5176-102 - BAL

Lab Sample ID: CS2-5176-102  
Client Sample ID: CS-2  
Instrument: 10MSHR09 (P)



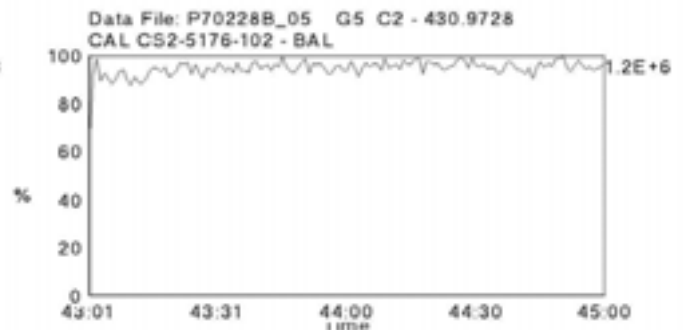
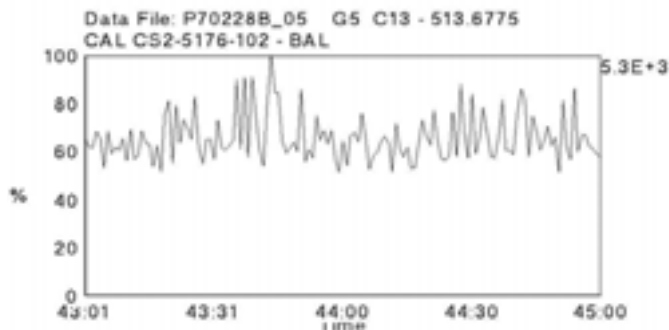
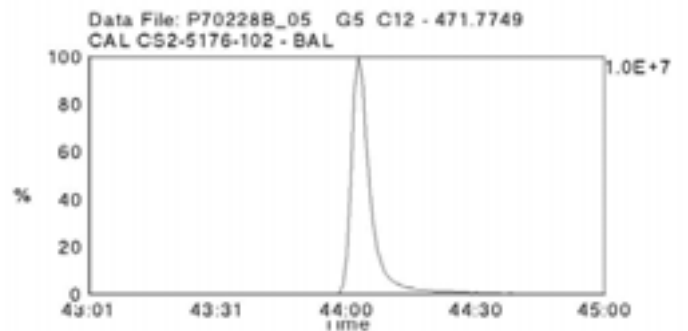
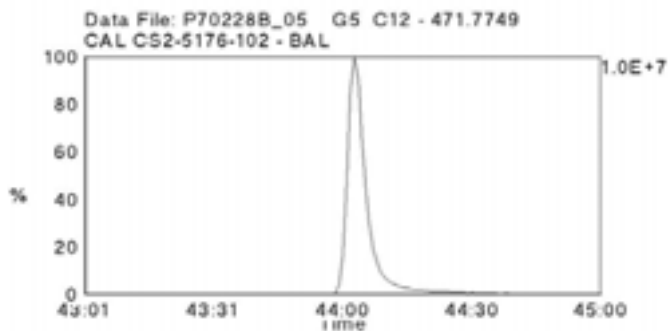
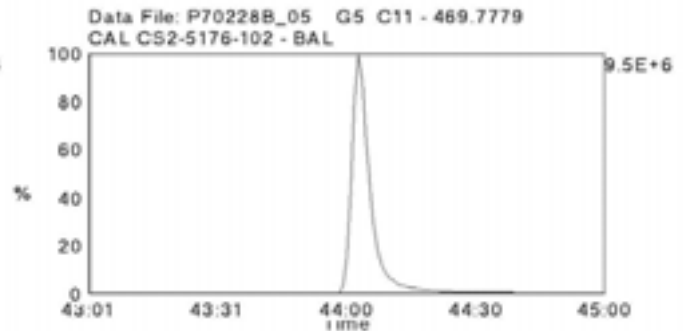
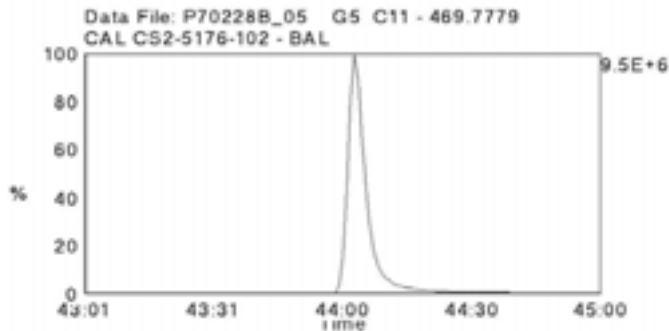
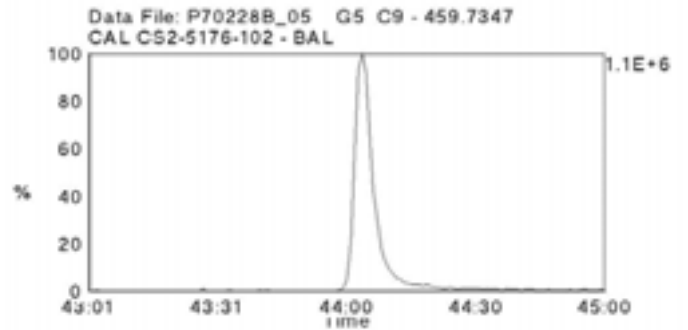
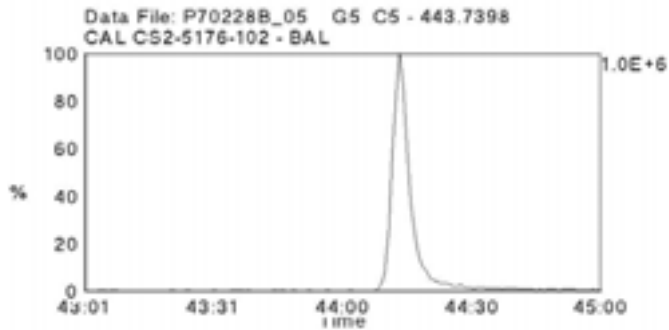
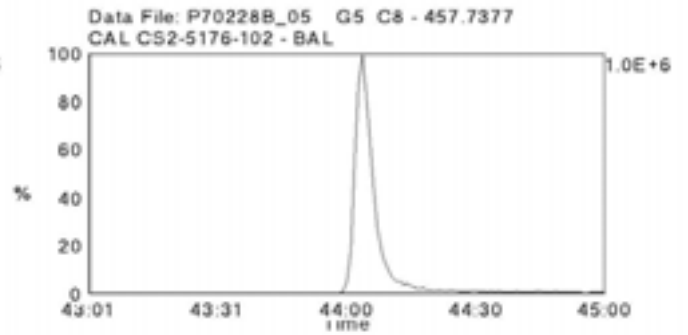
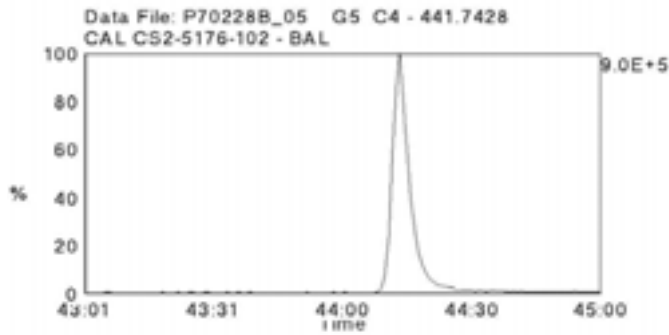
Data File Name: P70228B\_05  
Date Acquired: 2/28/2007  
Sample Description: CAL CS2-5176-102 - BAL

Lab Sample ID: CS2-5176-102  
Client Sample ID: CS-2  
Instrument: 10MSHR09 (P)



Data File Name: P70228B\_05  
Date Acquired: 2/28/2007  
Sample Description: CAL CS2-5176-102 - BAL

Lab Sample ID: CS2-5176-102  
Client Sample ID: CS-2  
Instrument: 10MSHR09 (P)





Data File Name: P70228B\_04

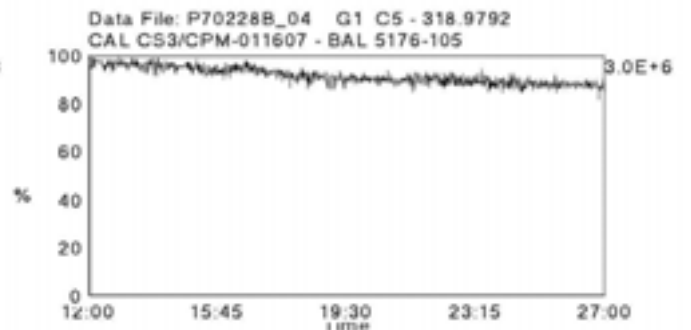
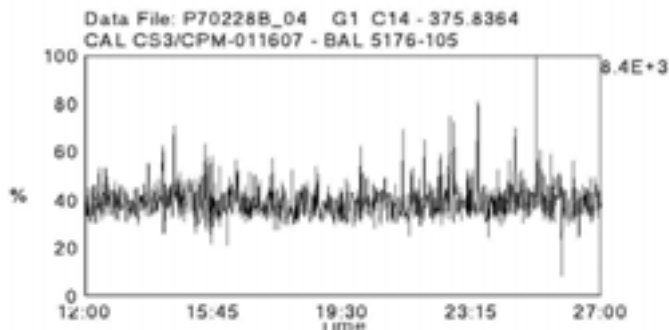
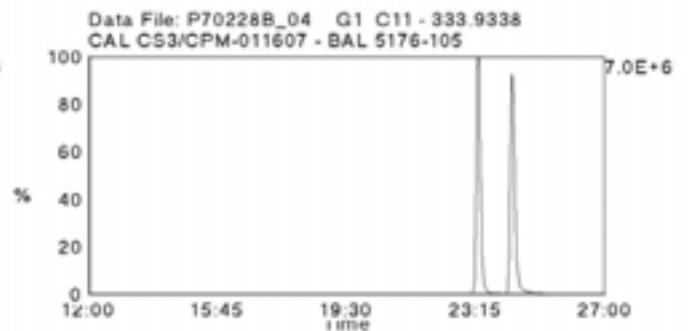
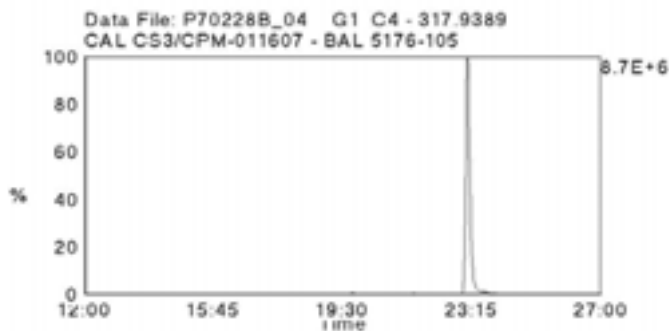
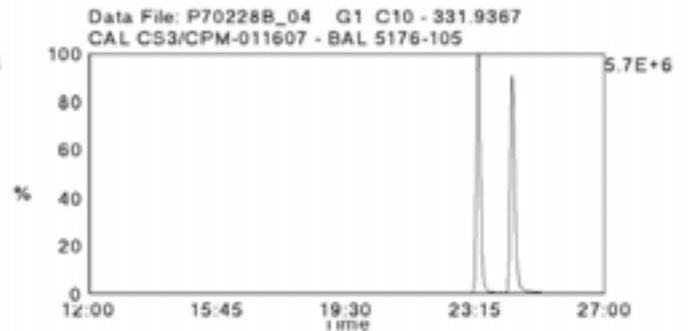
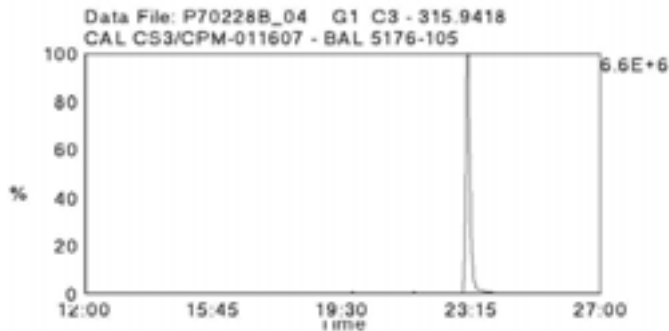
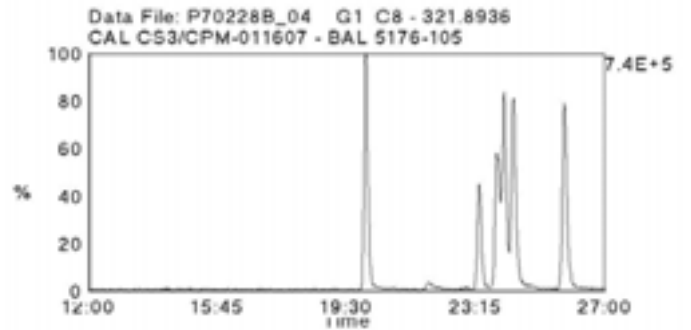
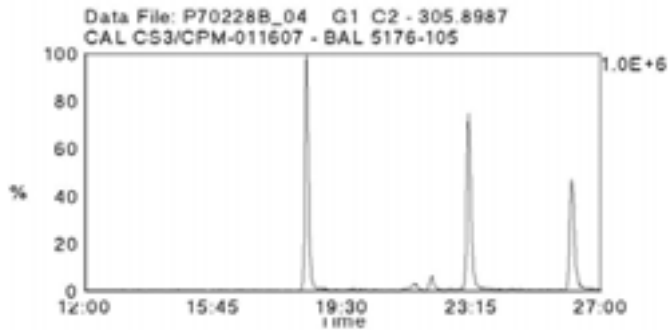
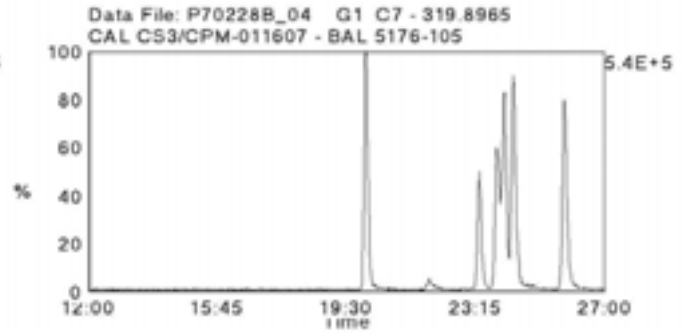
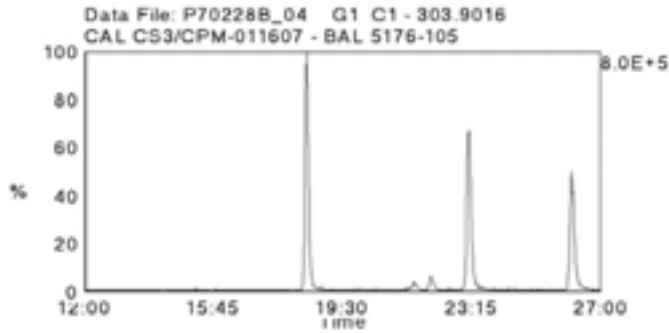
Date Acquired: 2/28/2007

Sample Description: CAL CS3/CPM-011607 - BAL 5176-105

Lab Sample ID: CS3/CPM-011607

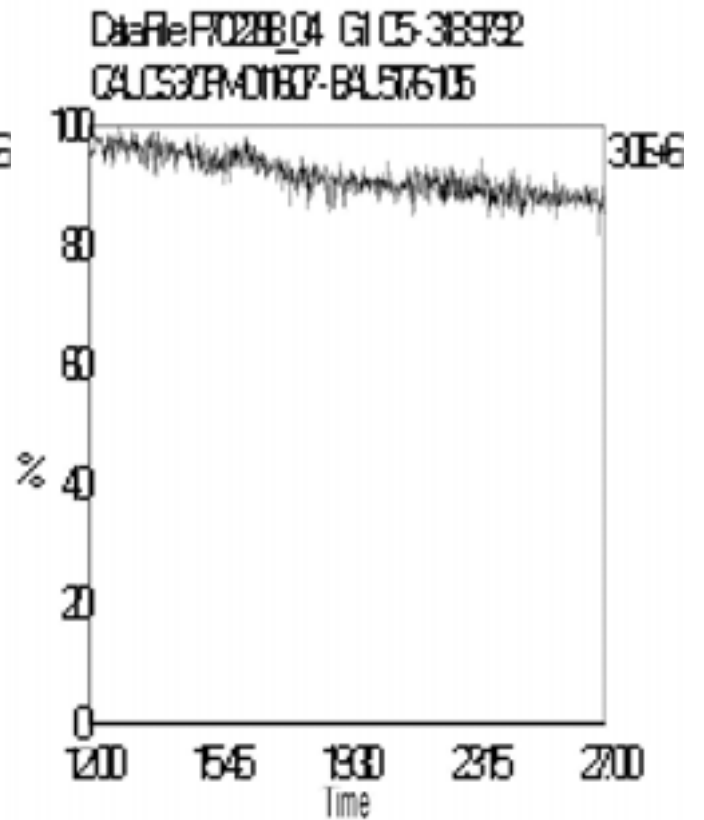
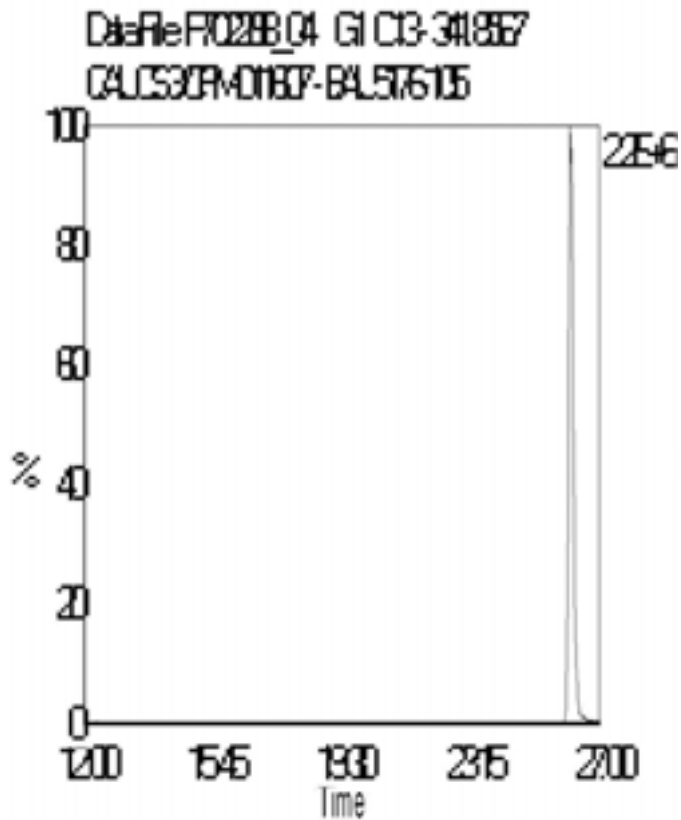
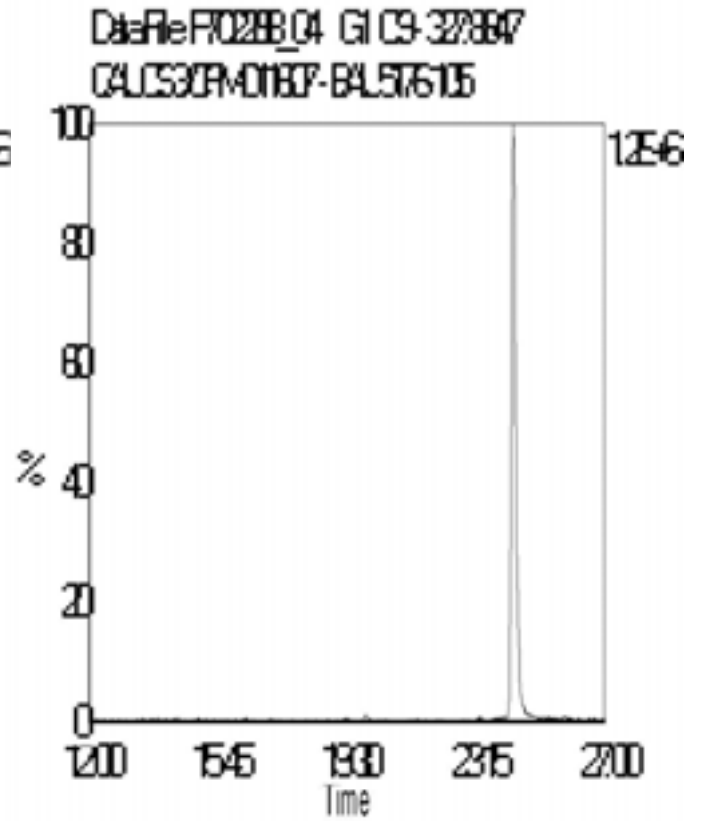
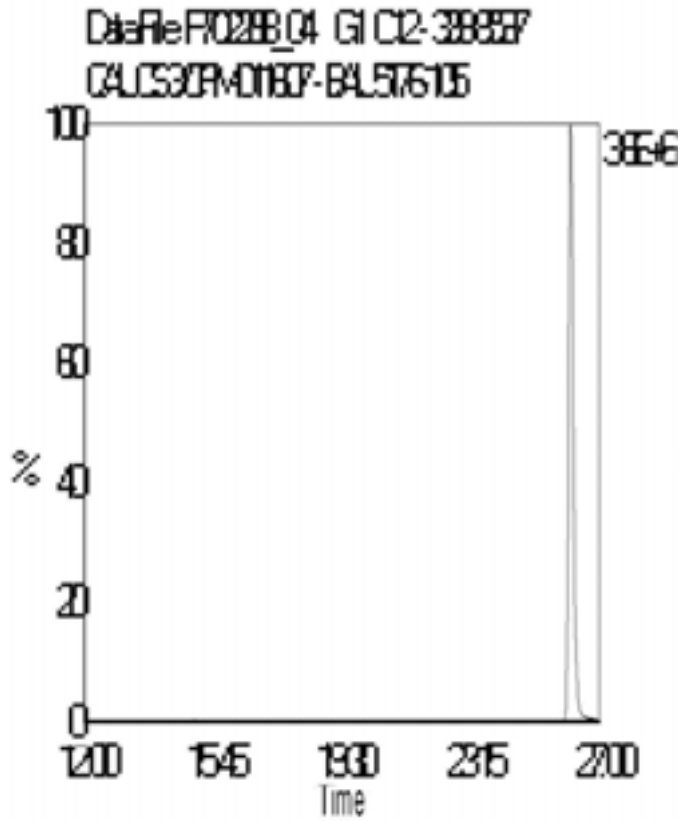
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Instrument: 10MSHR09 (P)



Data File Name: P70228B\_04  
Date Acquired: 2/28/2007  
Sample Description: CAL CS3/CPM-011607 - BAL 5176-105

Lab Sample ID: CS3/CPM-011607  
Client Sample ID:  
Instrument: 10MSHR09 (P)



Data File Name: P70228B\_04

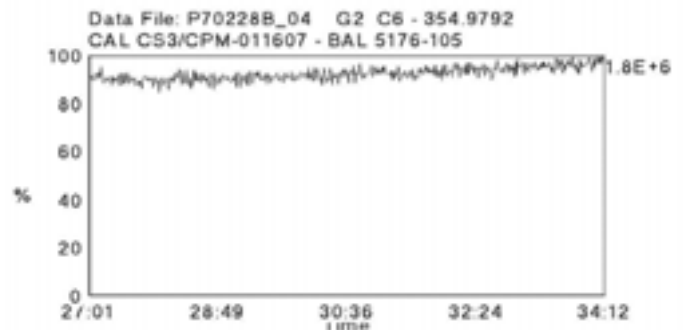
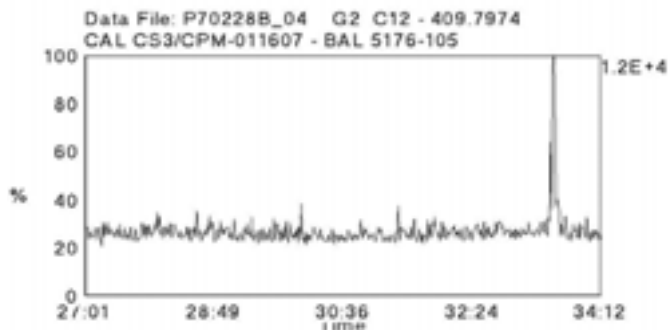
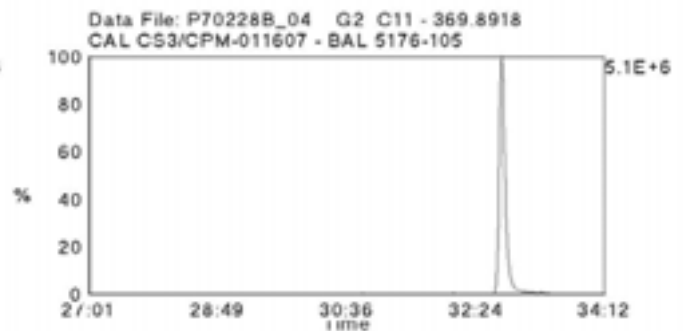
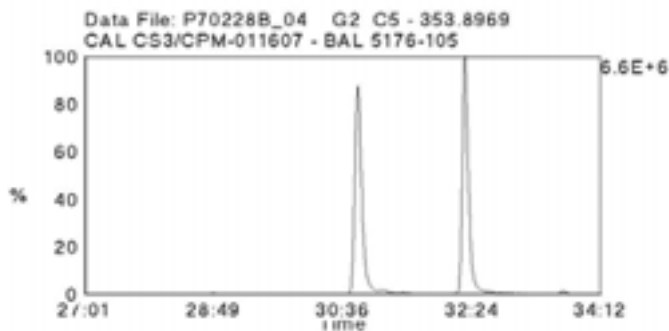
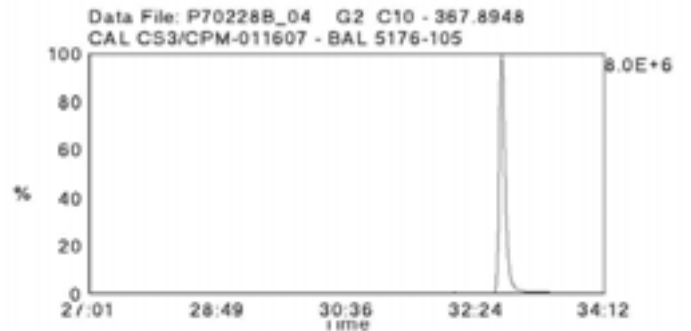
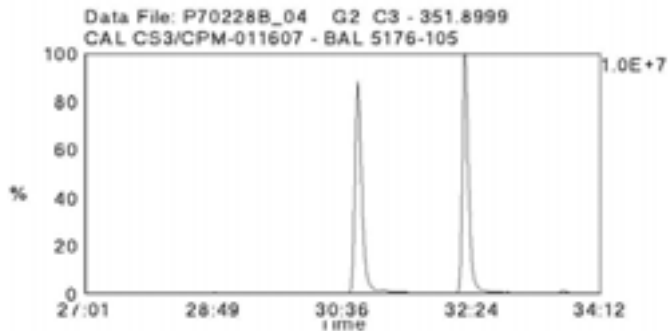
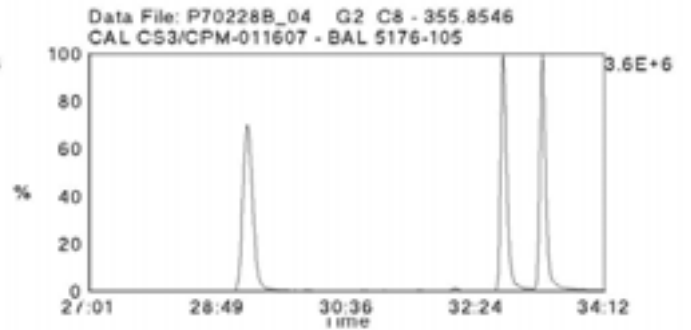
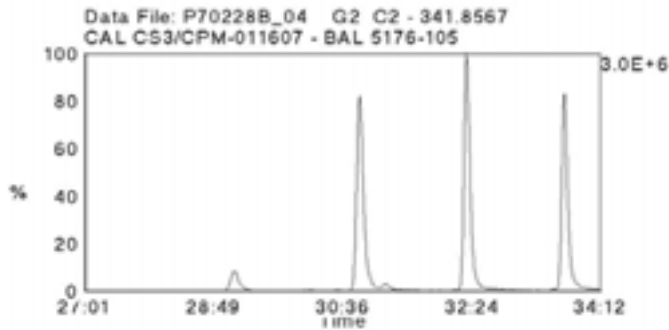
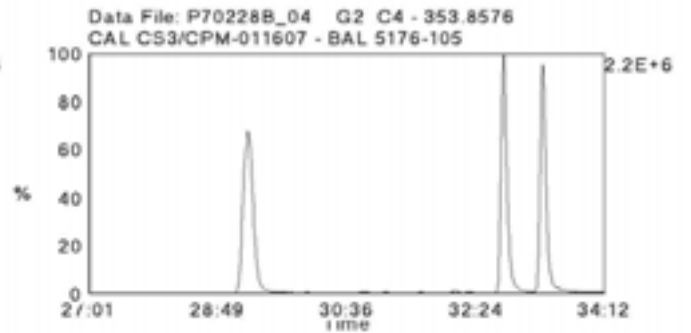
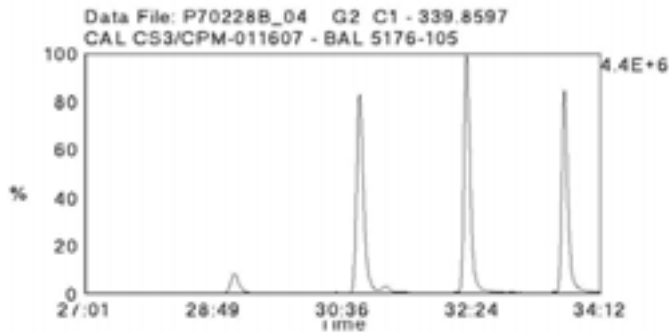
Date Acquired: 2/28/2007

Sample Description: CAL CS3/CPM-011607 - BAL 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70228B\_04

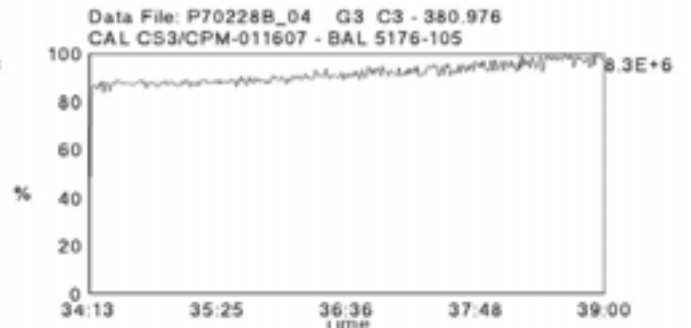
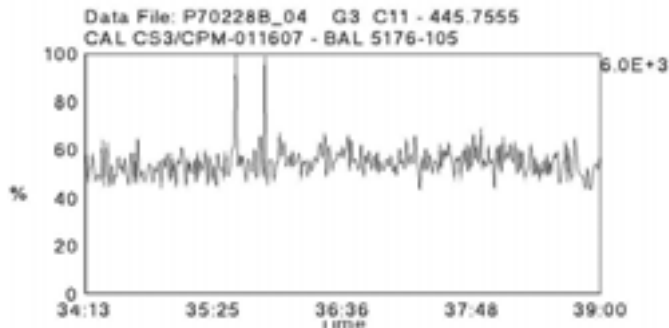
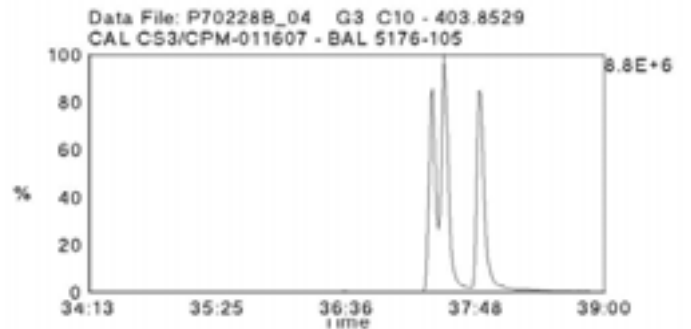
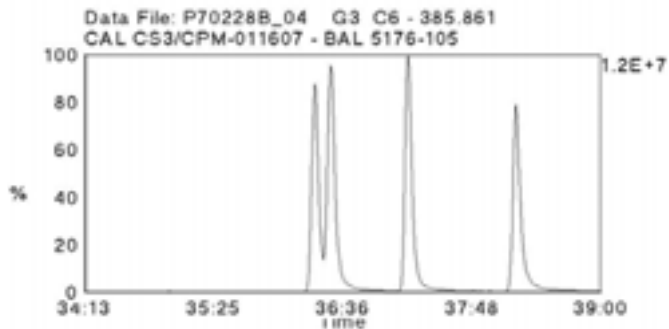
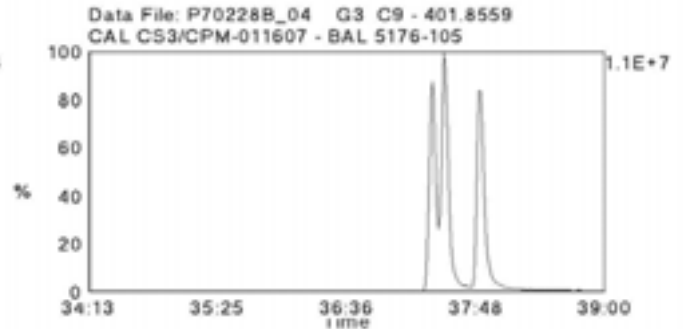
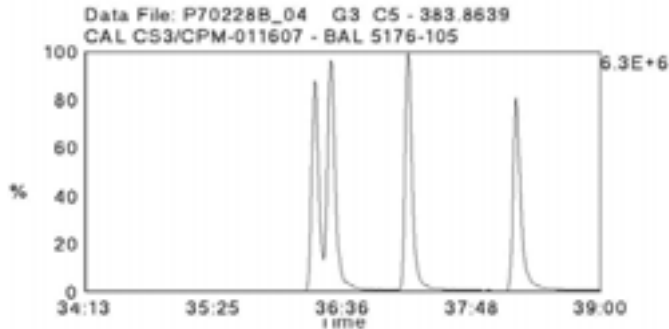
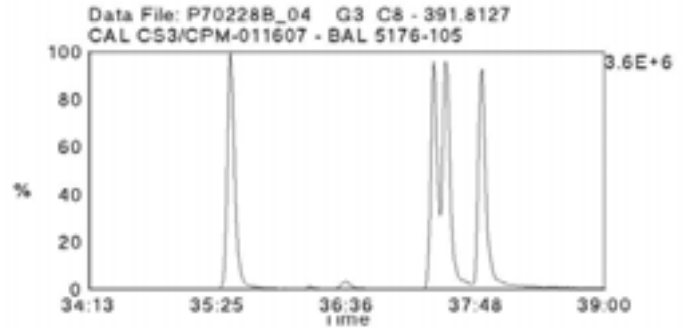
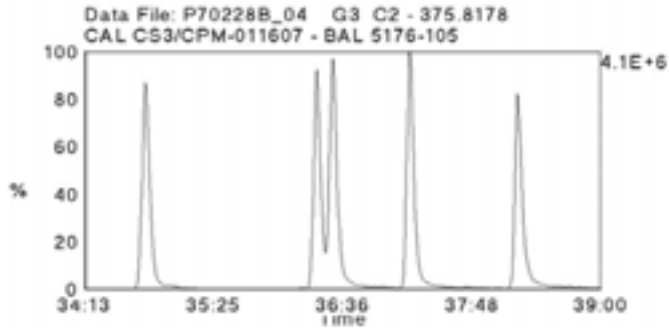
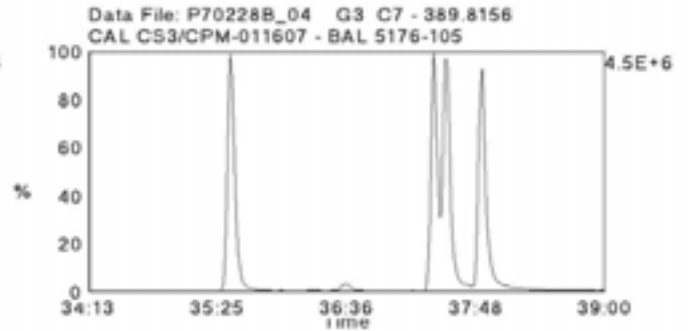
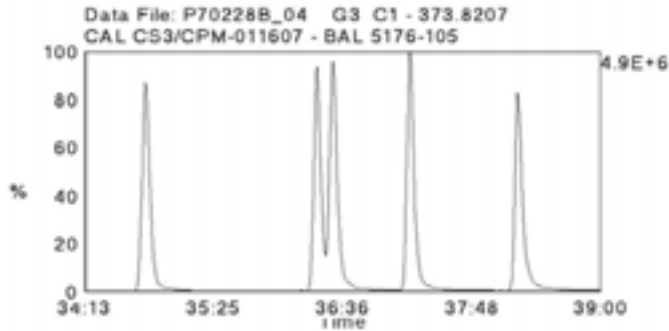
Date Acquired: 2/28/2007

Sample Description: CAL CS3/CPM-011607 - BAL 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70228B\_04

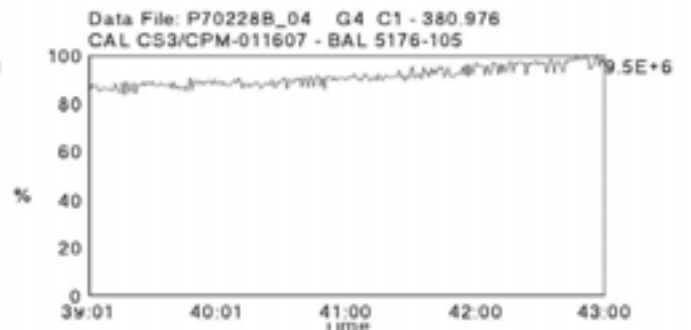
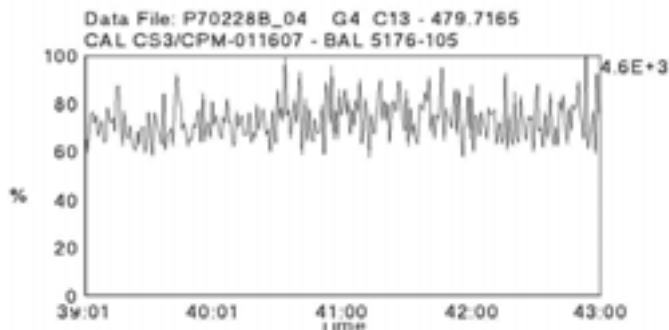
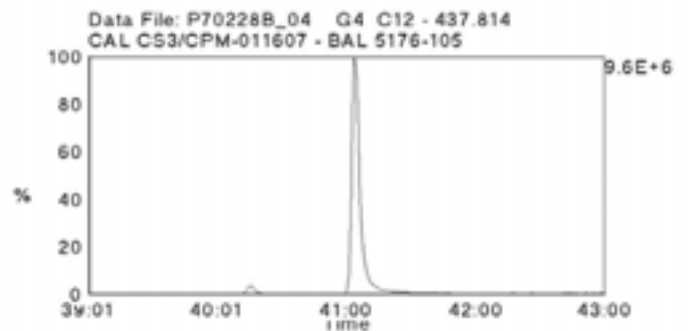
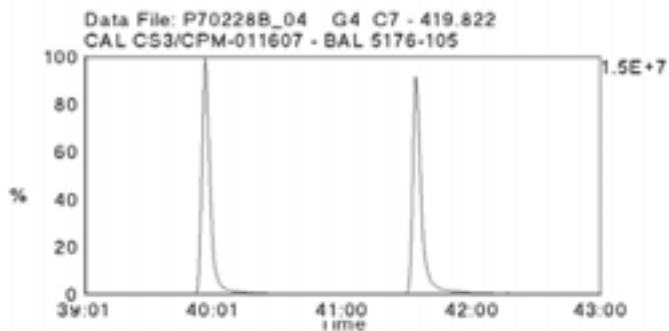
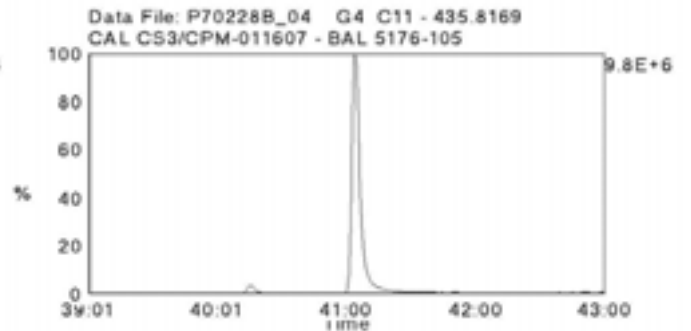
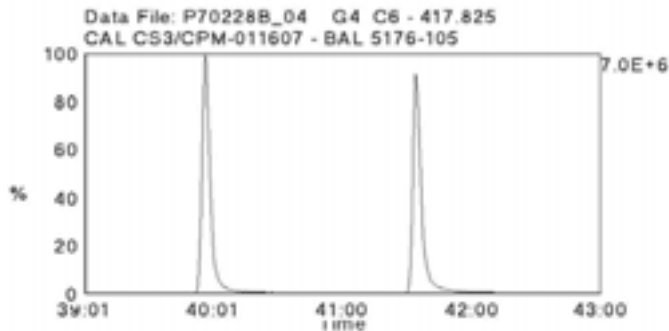
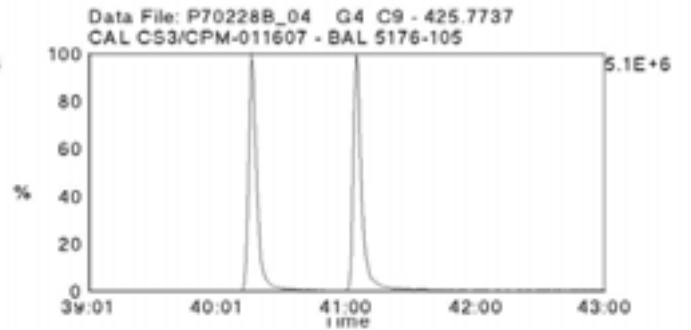
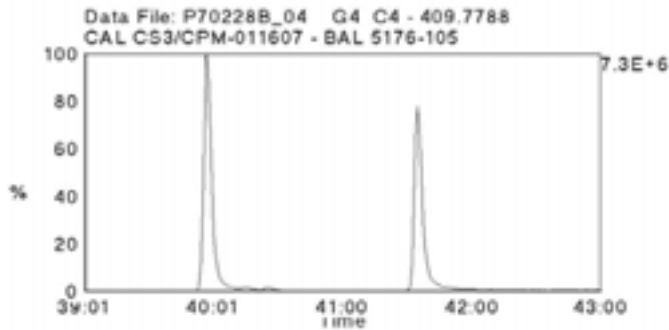
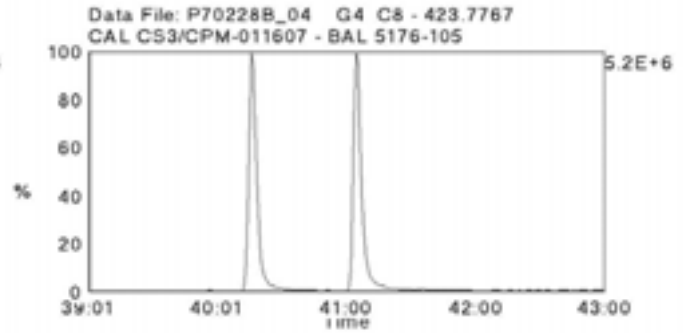
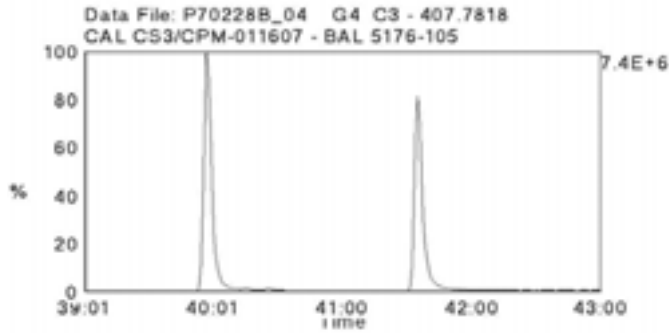
Date Acquired: 2/28/2007

Sample Description: CAL CS3/CPM-011607 - BAL 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70228B\_04

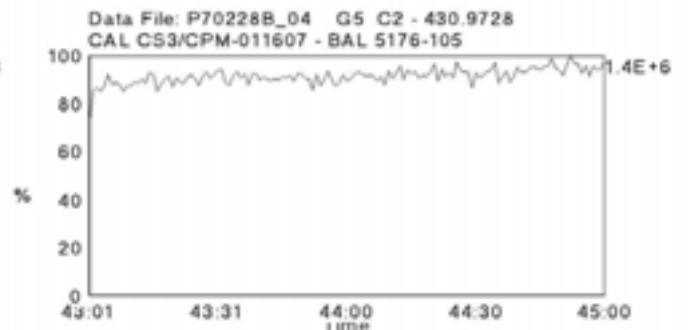
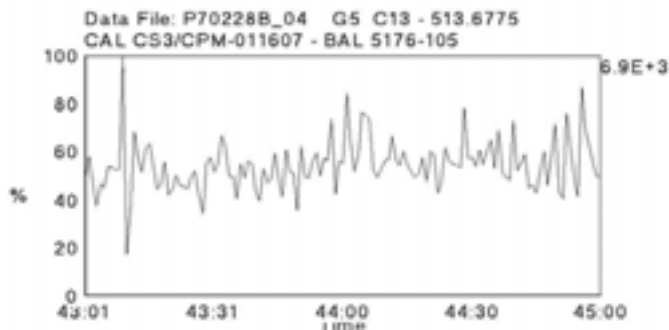
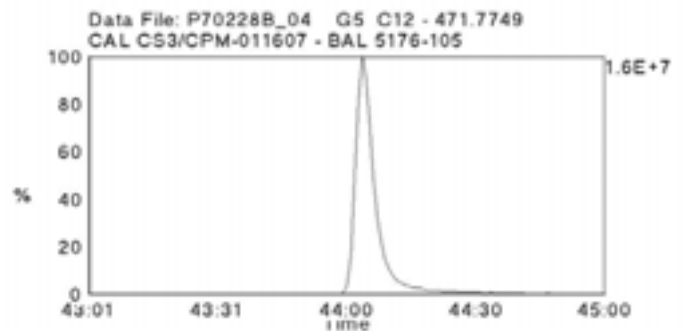
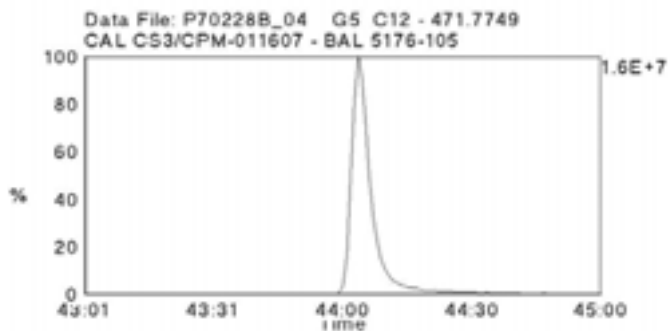
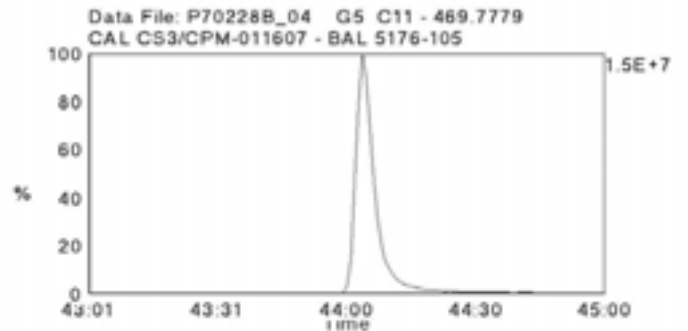
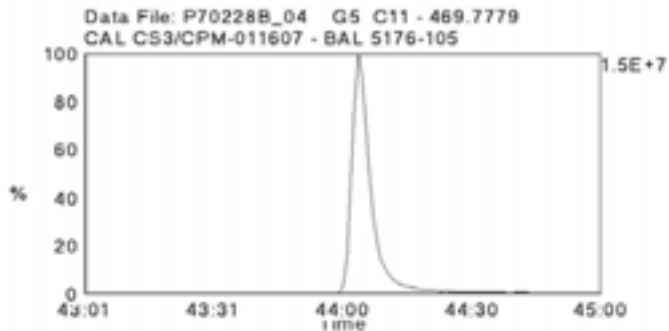
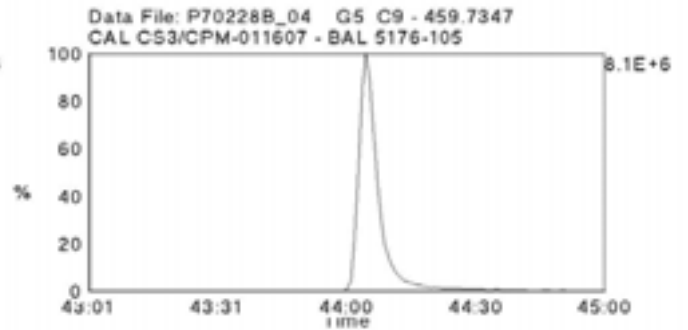
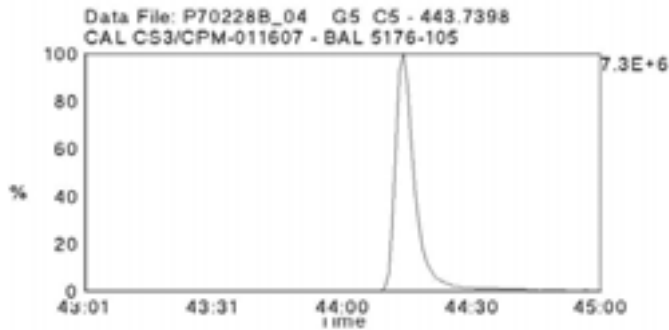
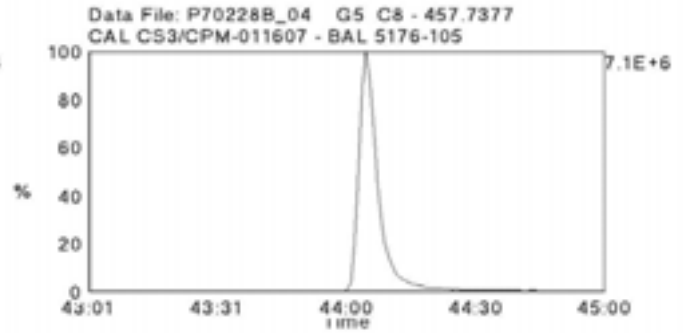
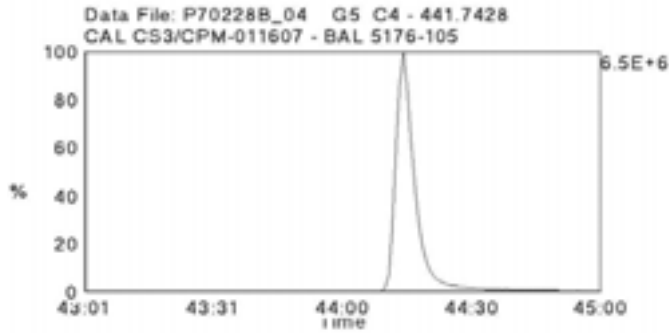
Date Acquired: 2/28/2007

Sample Description: CAL CS3/CPM-011607 - BAL 5176-105

Lab Sample ID: CS3/CPM-011607

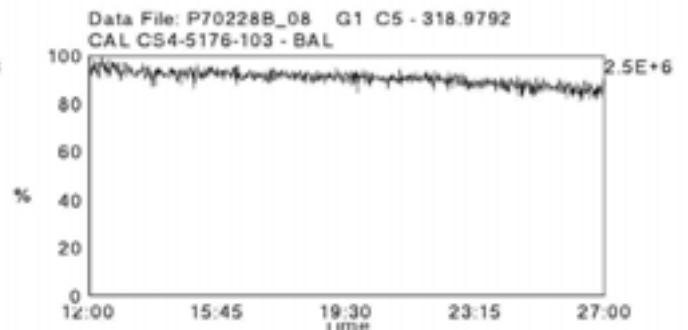
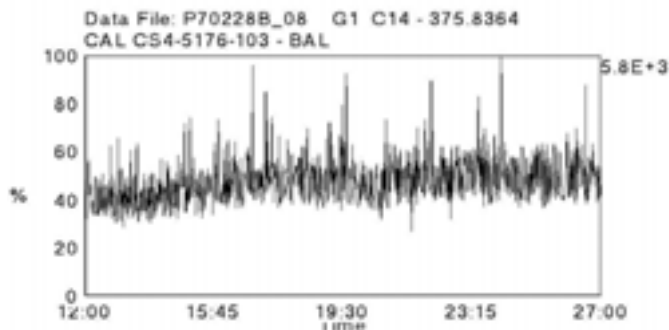
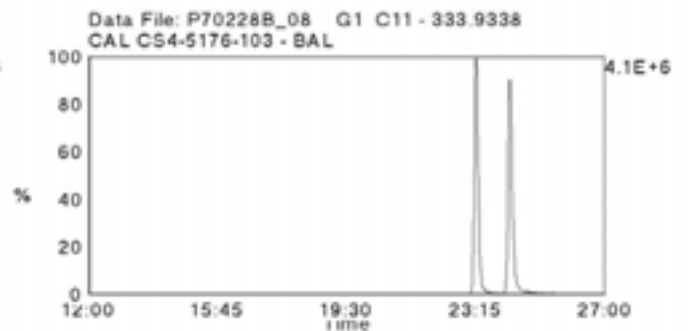
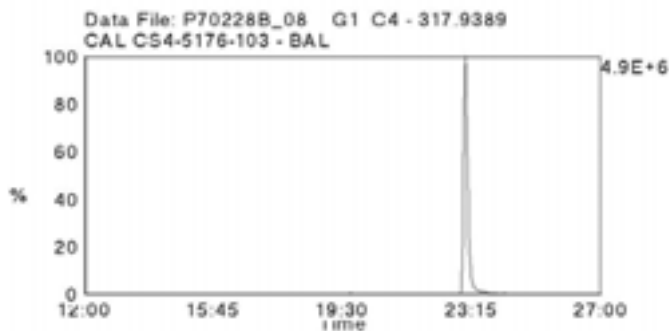
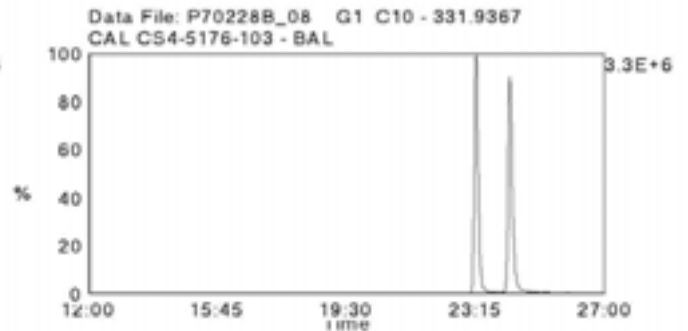
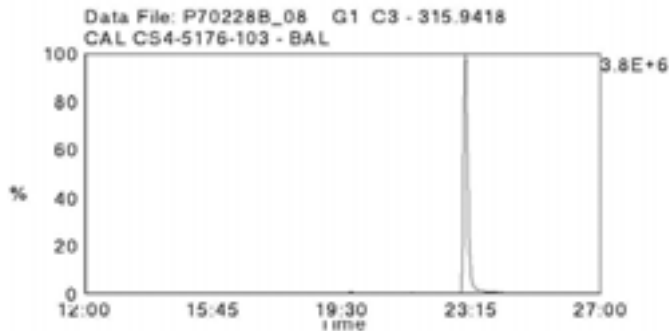
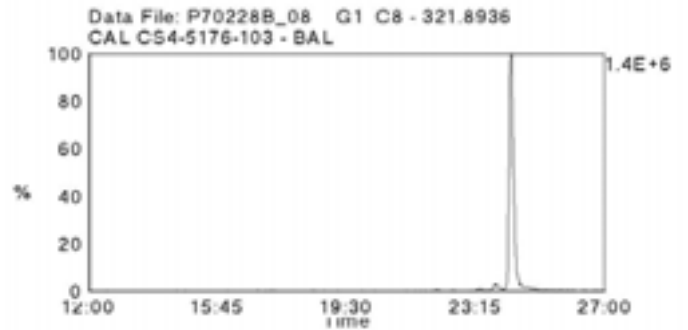
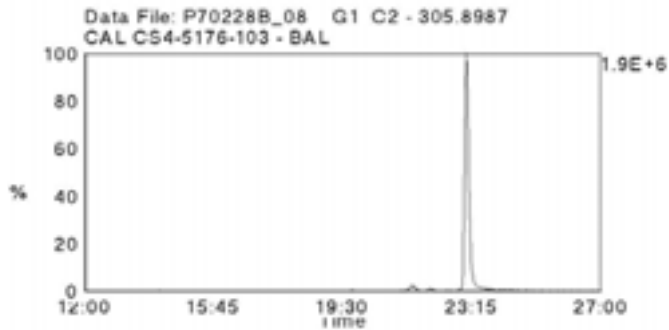
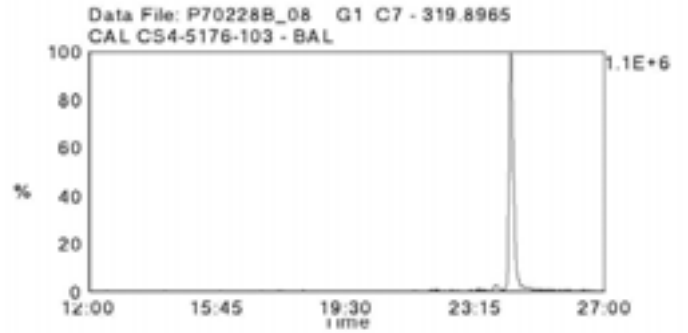
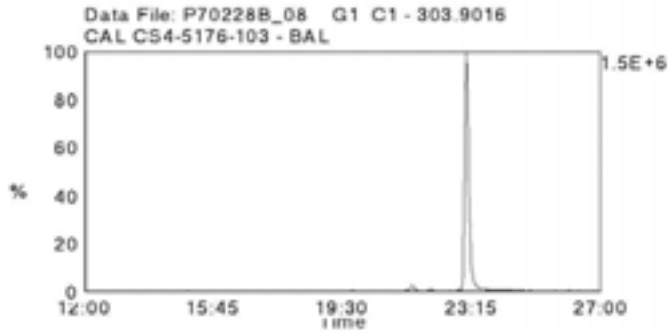
Client Sample ID:

Instrument: 10MSHR09 (P)



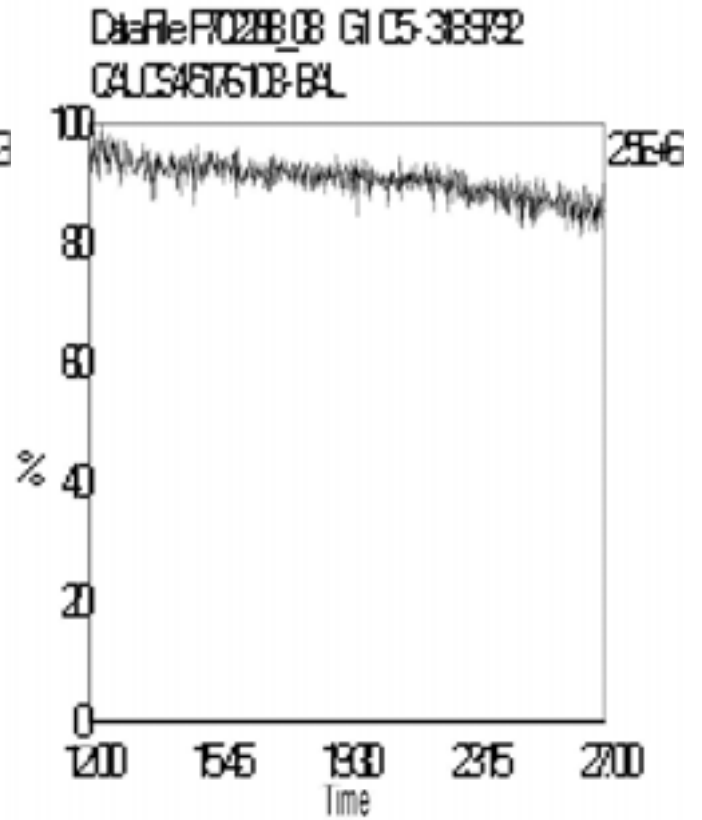
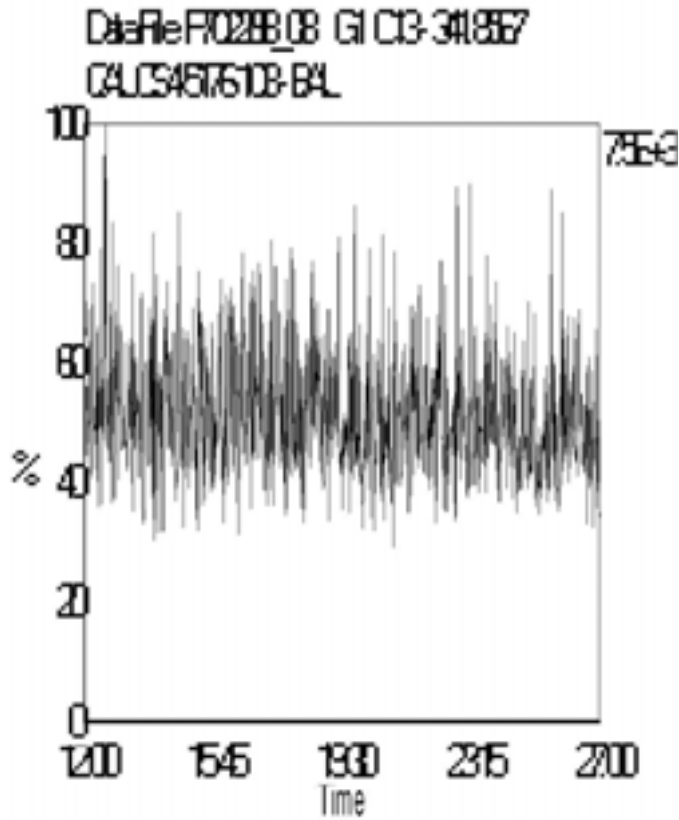
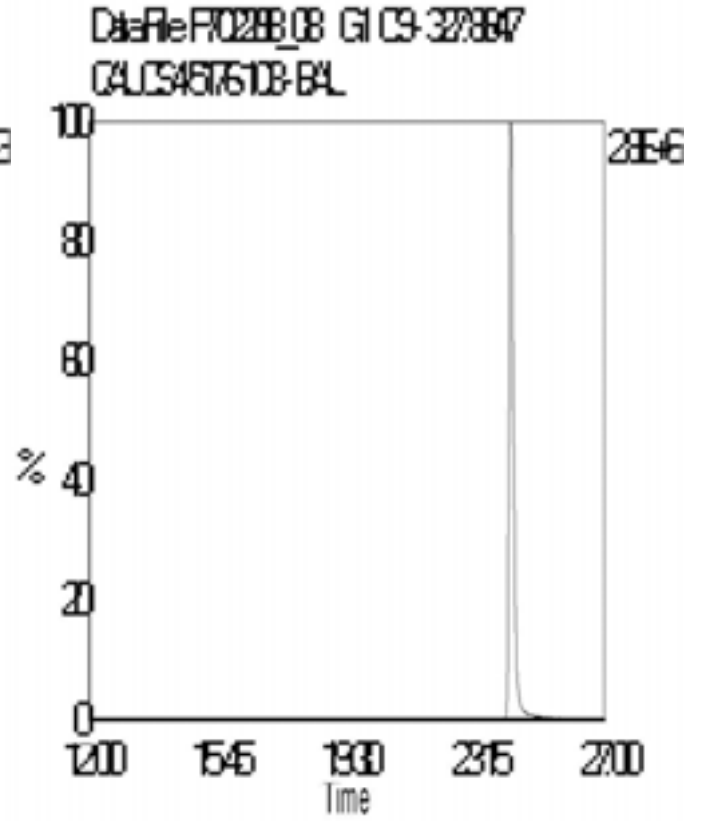
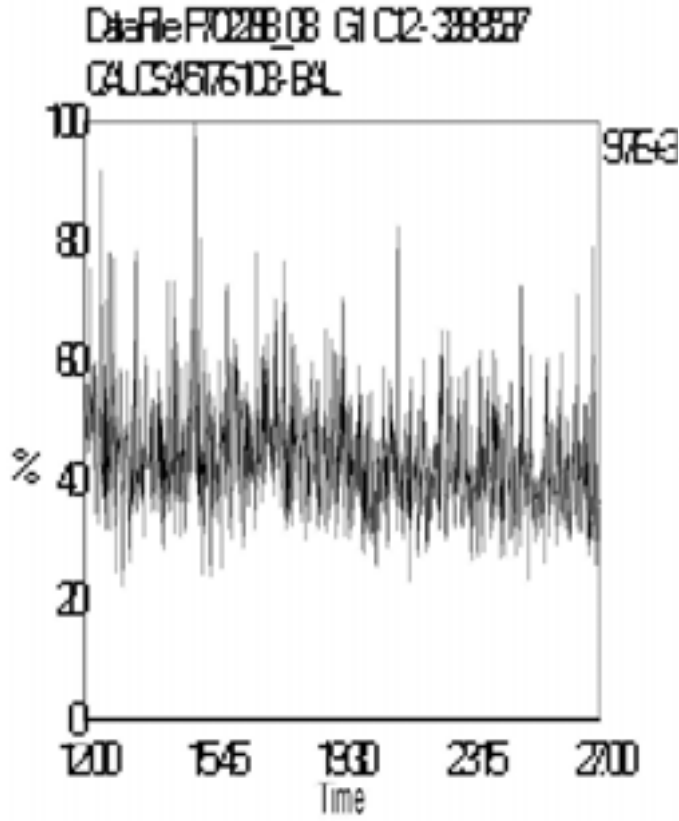
Data File Name: P70228B\_08  
Date Acquired: 2/28/2007  
Sample Description: CAL CS4-5176-103 - BAL

Lab Sample ID: CS4-5176-103  
Client Sample ID: CS-4  
Instrument: 10MSHR09 (P)



Data File Name: P70228B\_08  
Date Acquired: 2/28/2007  
Sample Description: CAL CS4-5176-103 - BAL

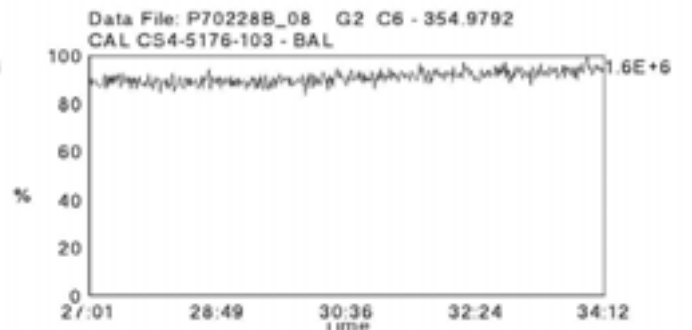
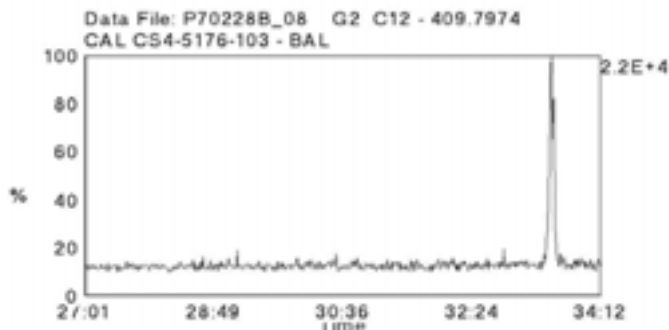
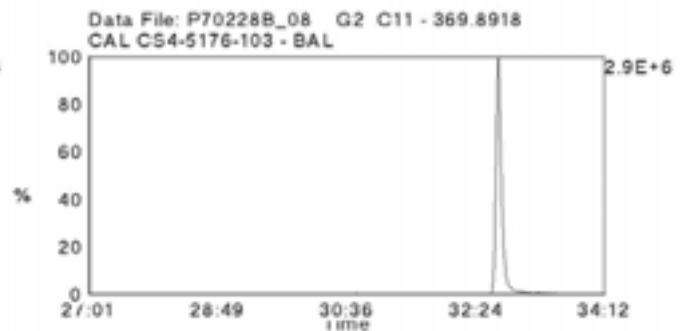
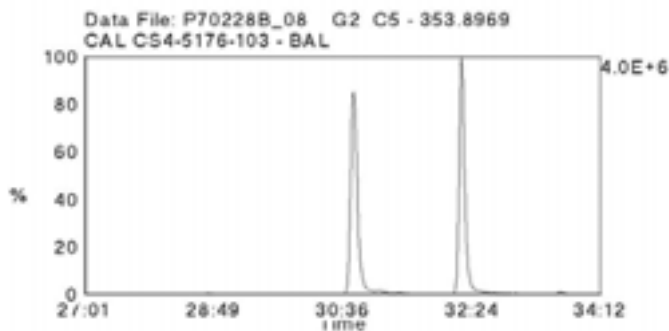
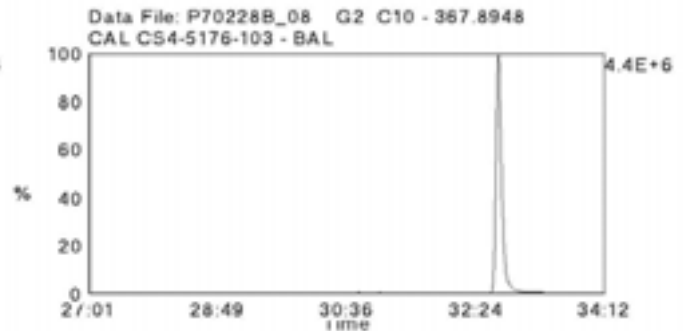
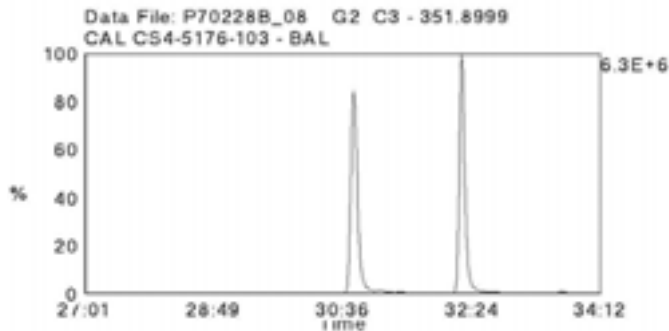
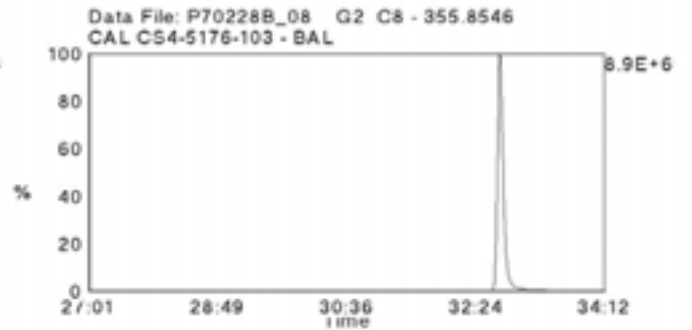
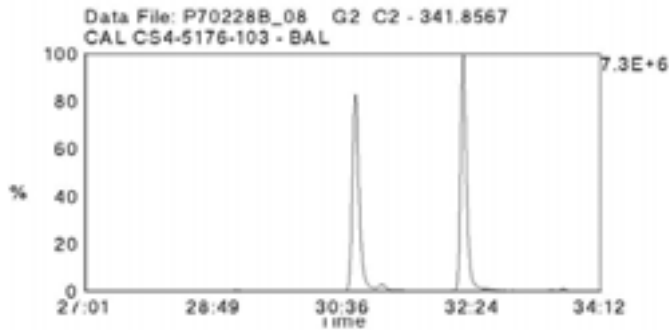
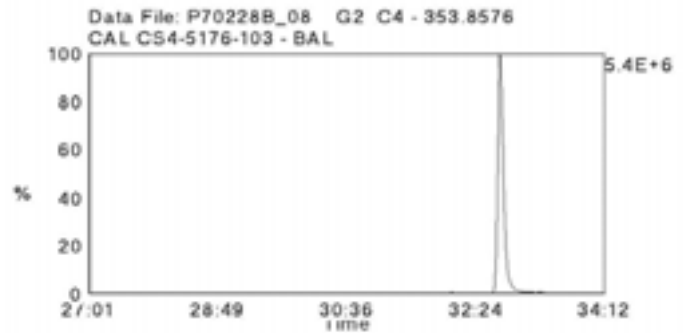
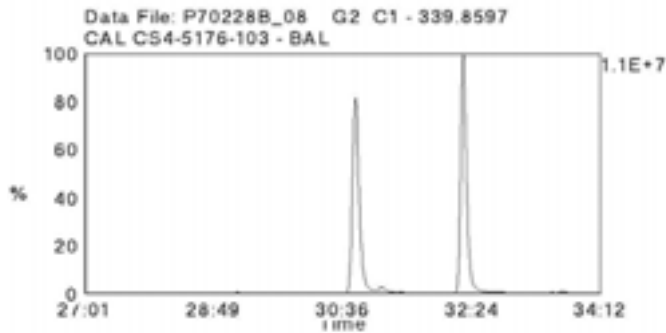
Lab Sample ID: CS4-5176-103  
Client Sample ID: CS-4  
Instrument: 10MSHR09 (P)





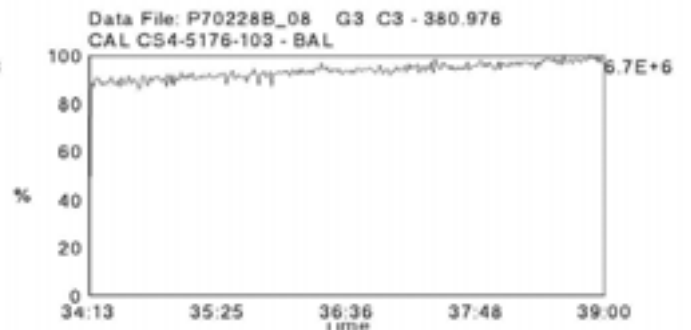
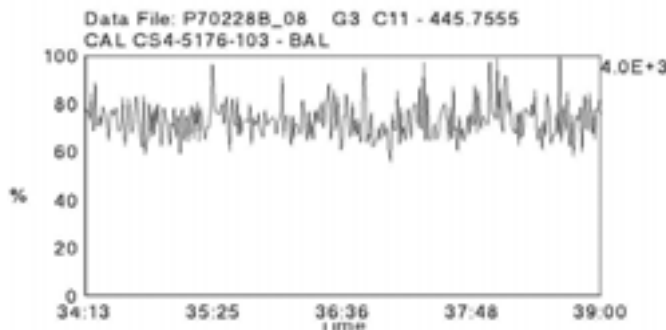
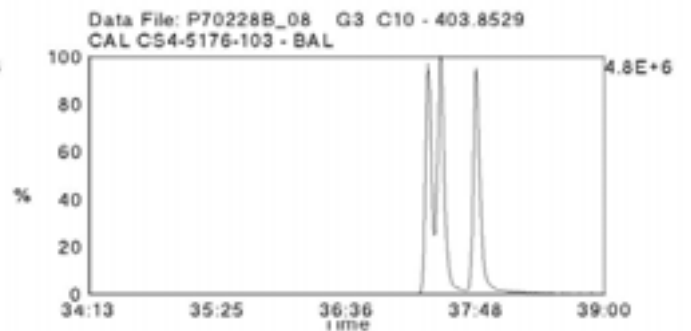
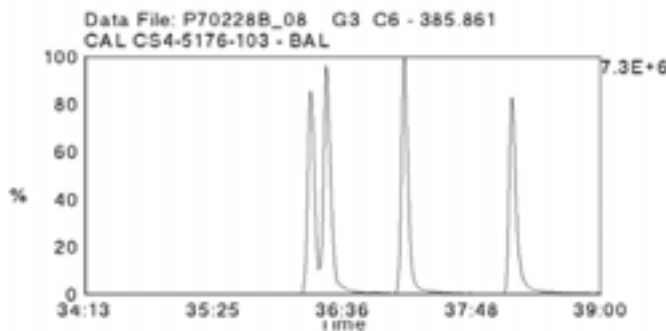
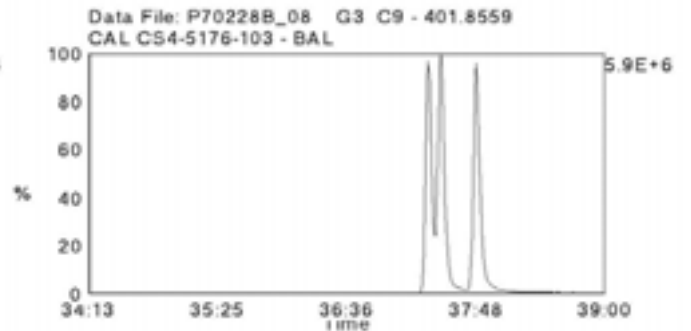
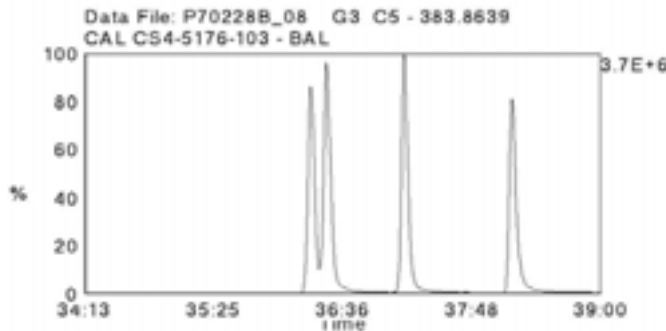
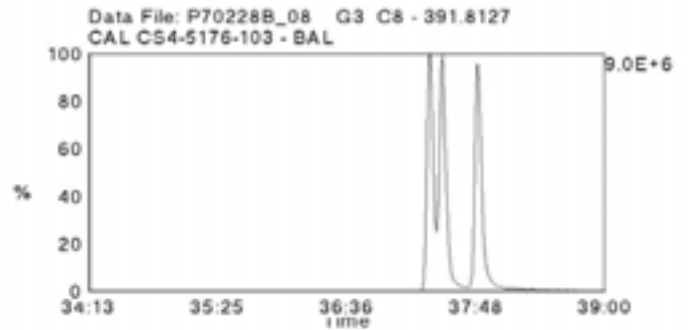
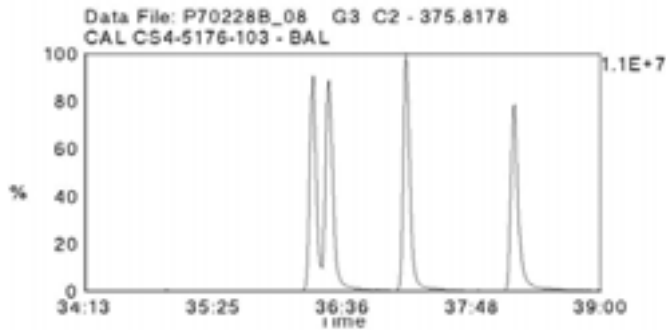
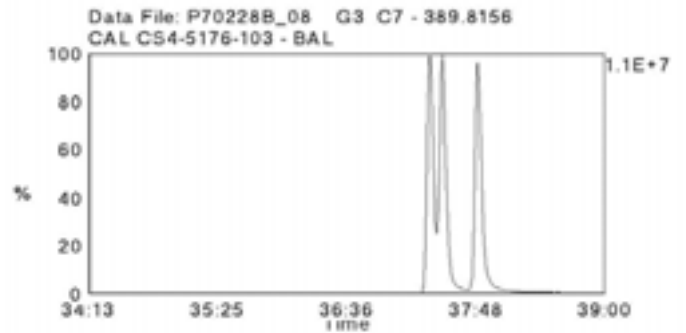
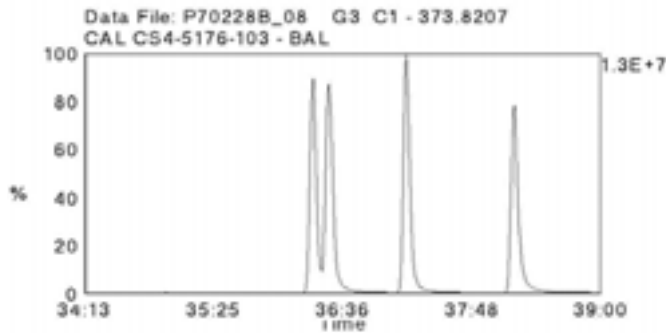
Data File Name: P70228B\_08  
Date Acquired: 2/28/2007  
Sample Description: CAL CS4-5176-103 - BAL

Lab Sample ID: CS4-5176-103  
Client Sample ID: CS-4  
Instrument: 10MSHR09 (P)



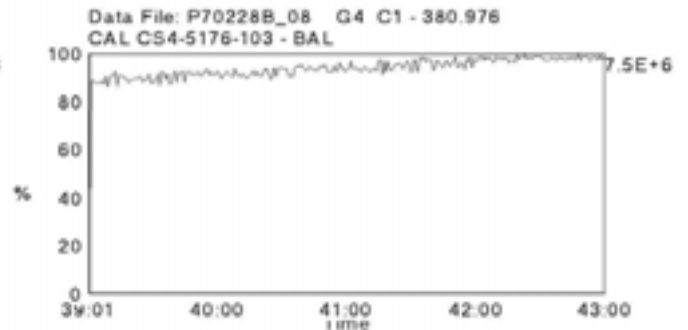
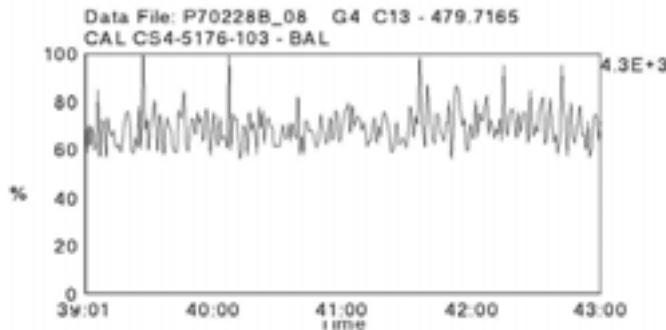
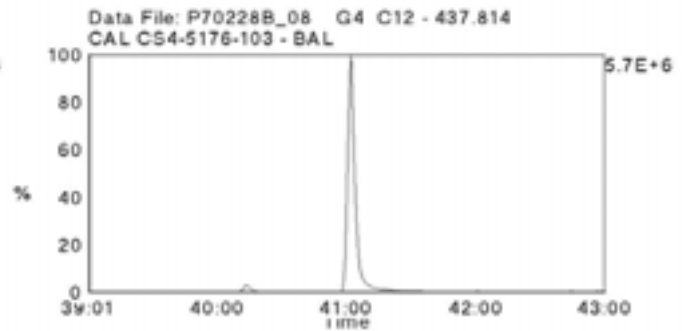
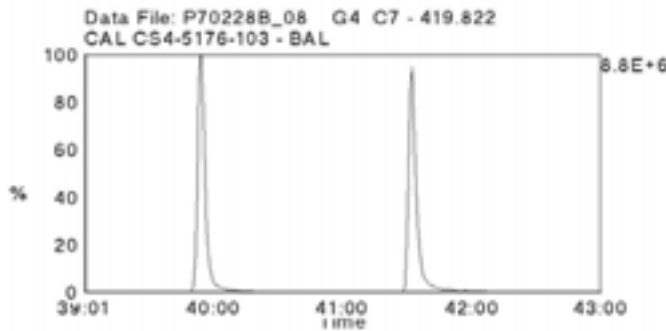
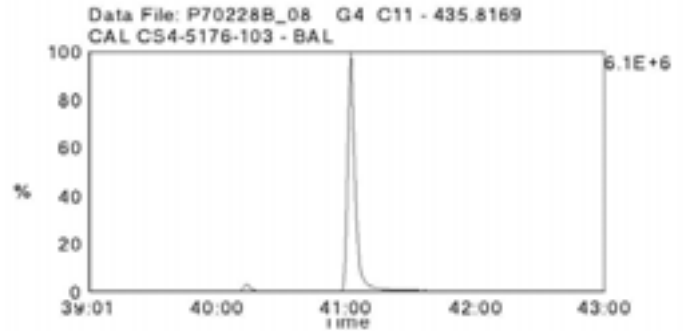
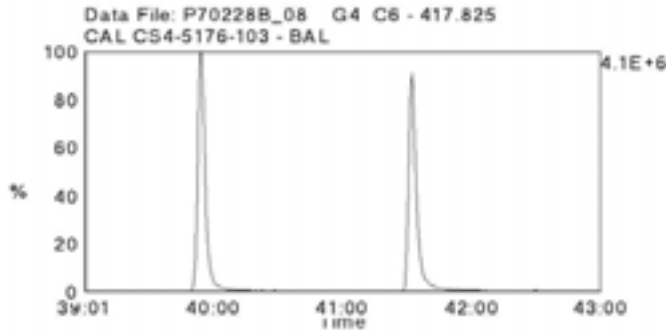
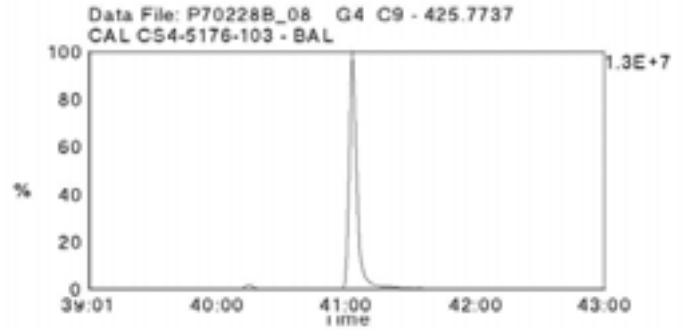
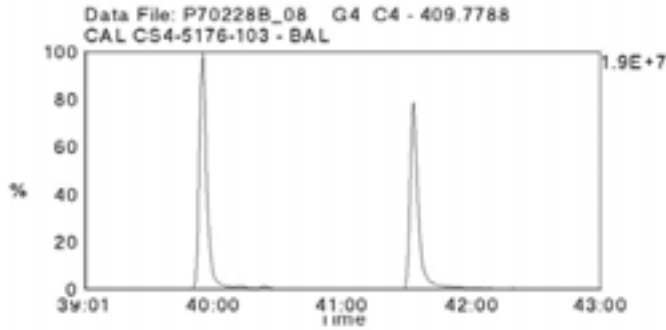
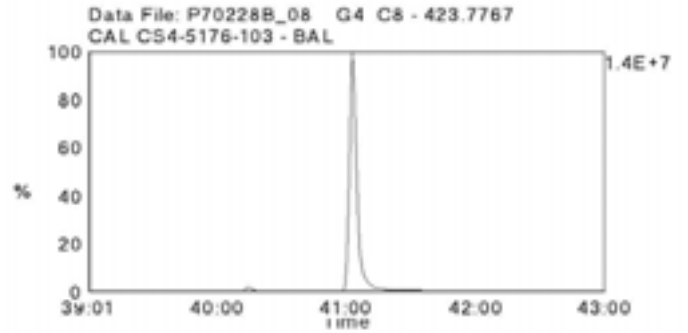
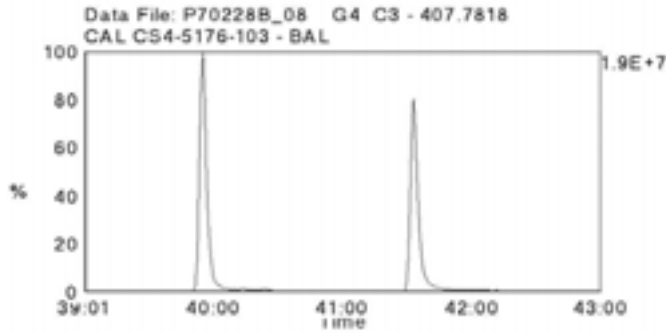
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Date Acquired: 2/28/2007  
Sample Description: CAL CS4-5176-103 - BAL

Lab Sample ID: CS4-5176-103  
Client Sample ID: CS-4  
Instrument: 10MSHR09 (P)



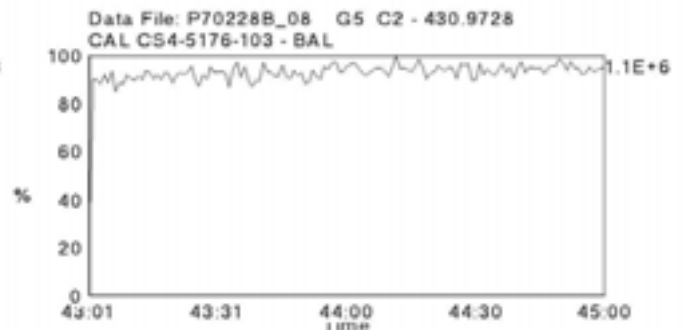
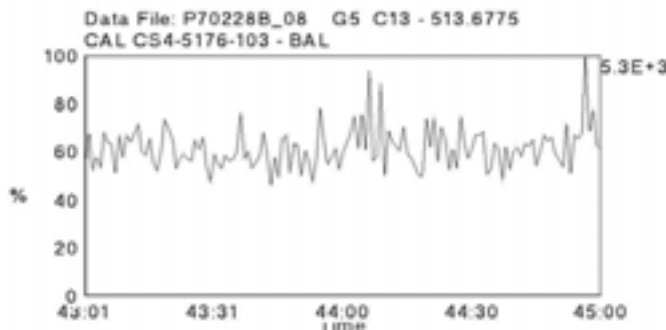
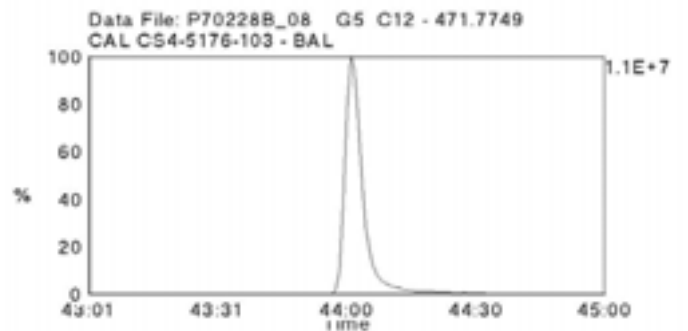
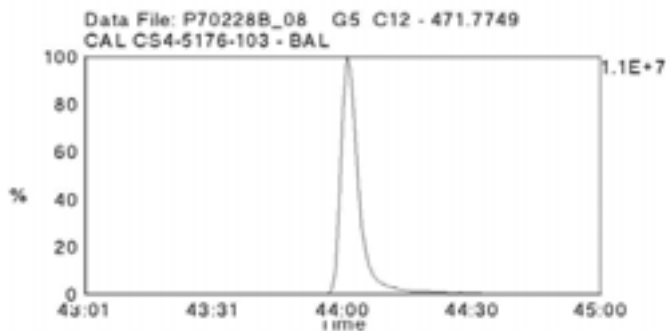
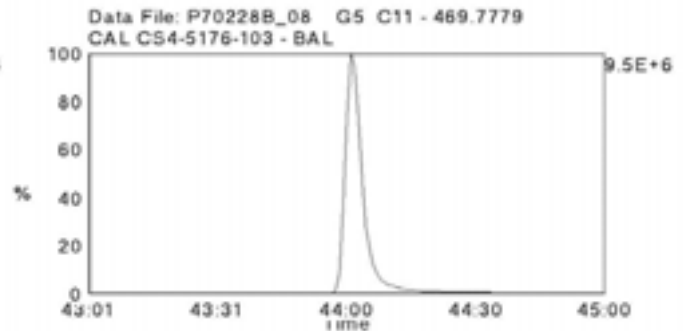
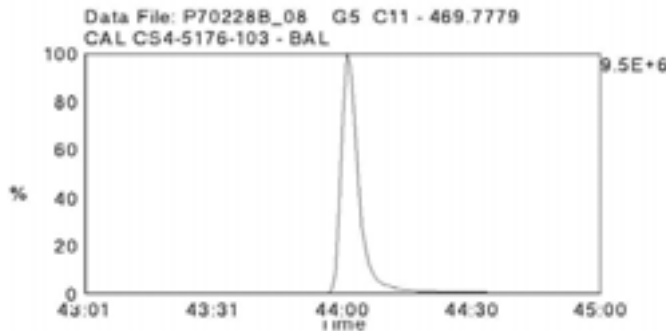
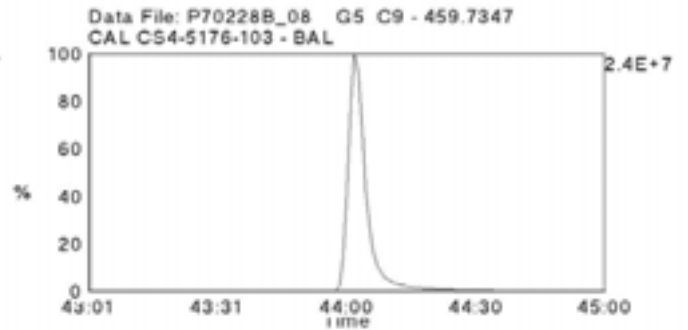
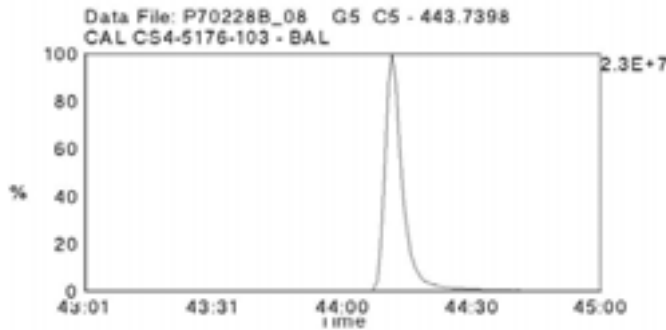
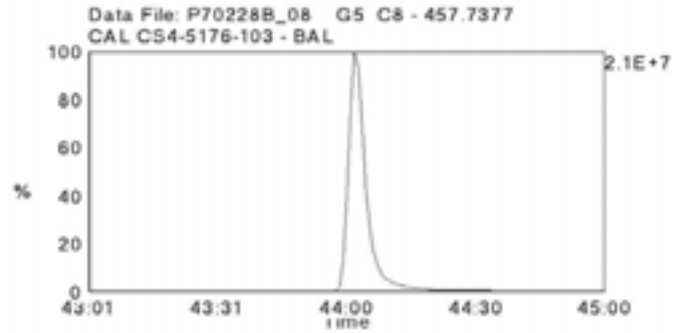
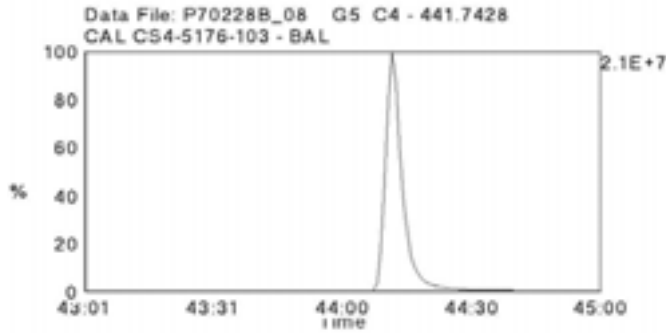
Data File Name: P70228B\_08  
Date Acquired: 2/28/2007  
Sample Description: CAL CS4-5176-103 - BAL

Lab Sample ID: CS4-5176-103  
Client Sample ID: CS-4  
Instrument: 10MSHR09 (P)



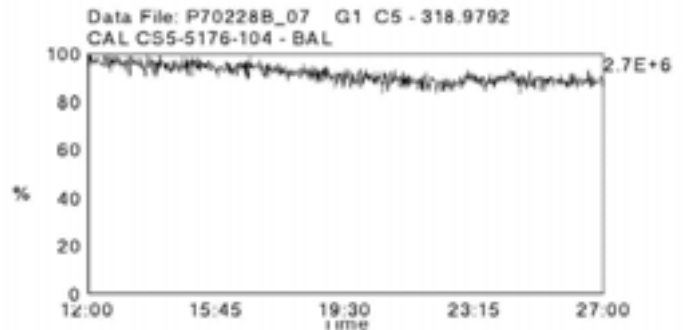
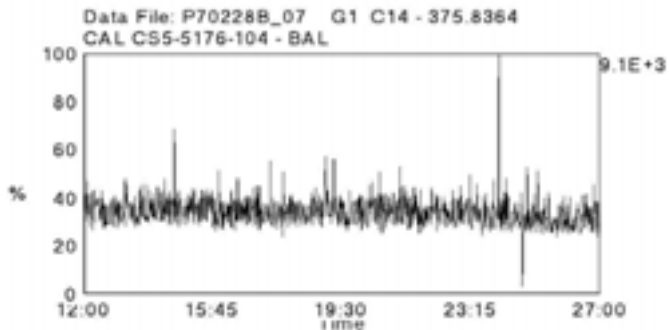
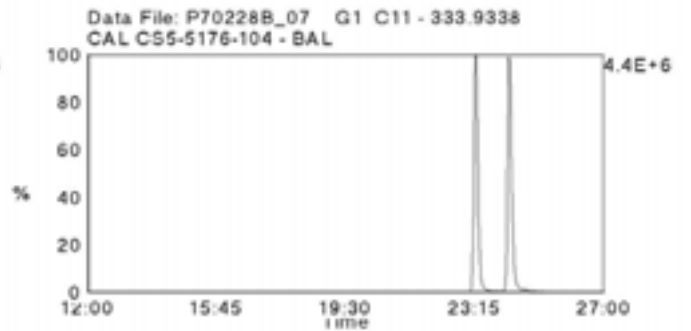
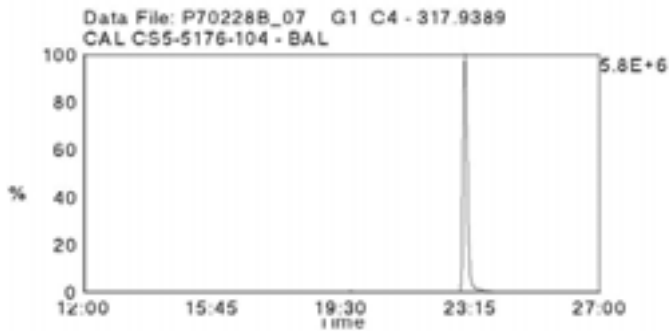
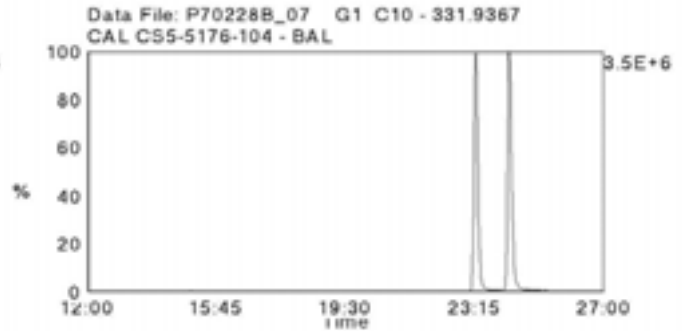
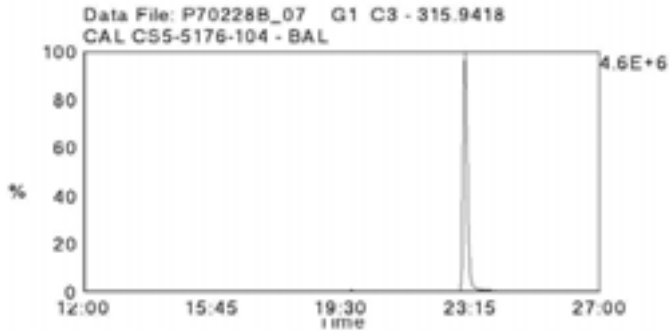
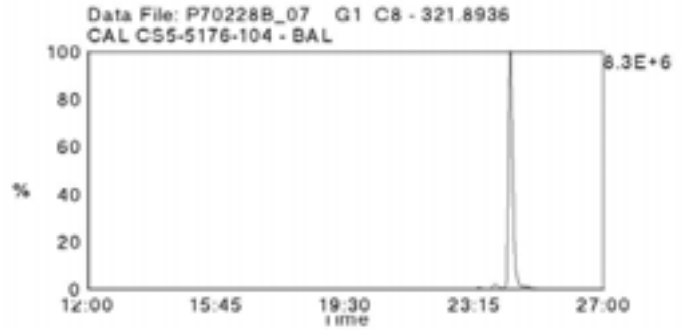
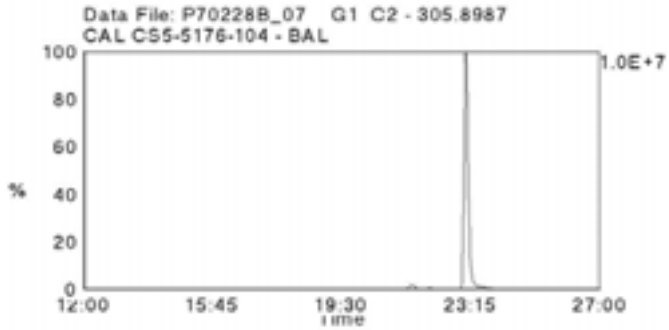
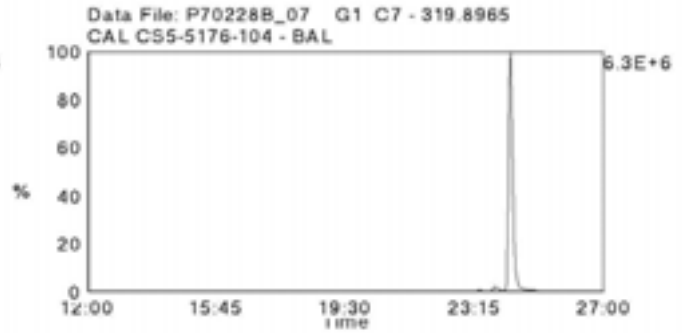
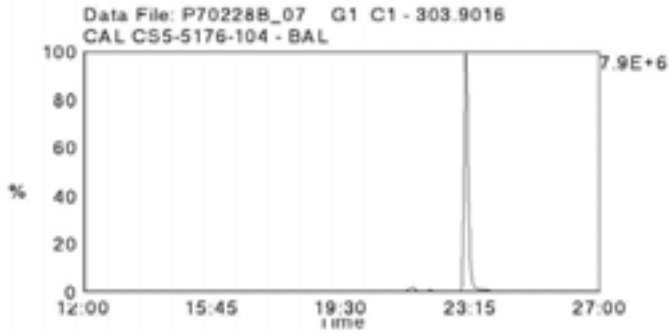
Data File Name: P70228B\_08  
Date Acquired: 2/28/2007  
Sample Description: CAL CS4-5176-103 - BAL

Lab Sample ID: CS4-5176-103  
Client Sample ID: CS-4  
Instrument: 10MSHR09 (P)



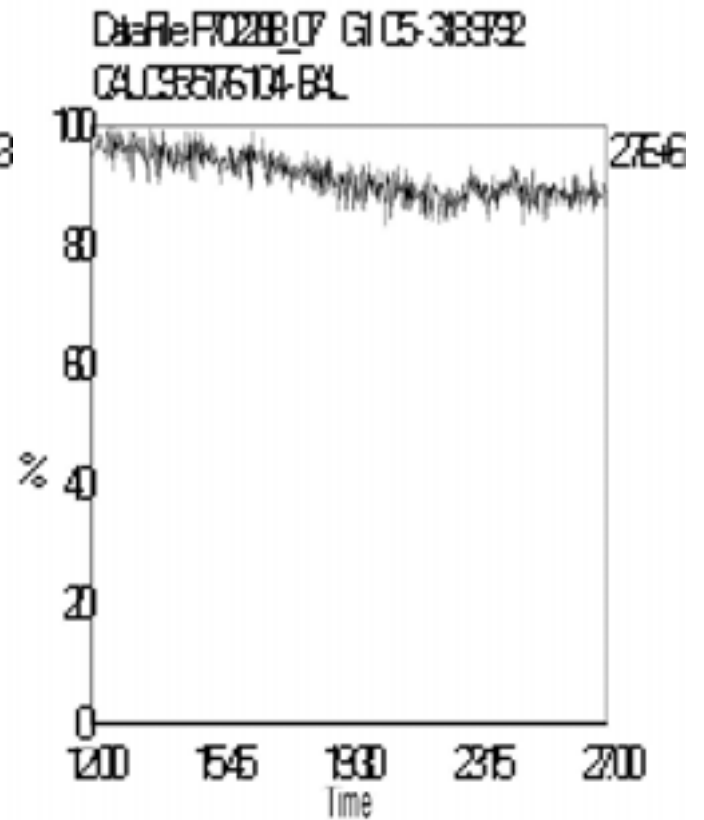
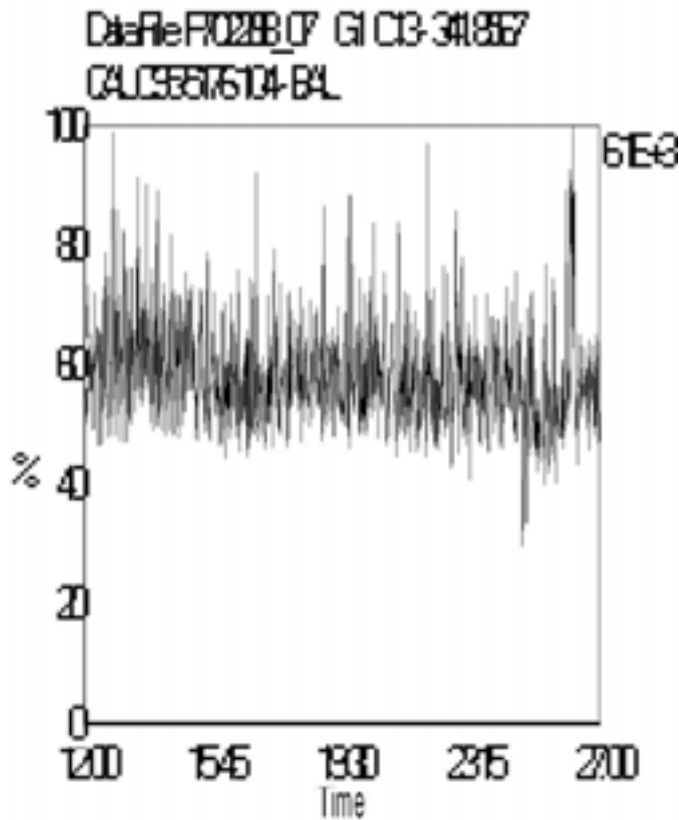
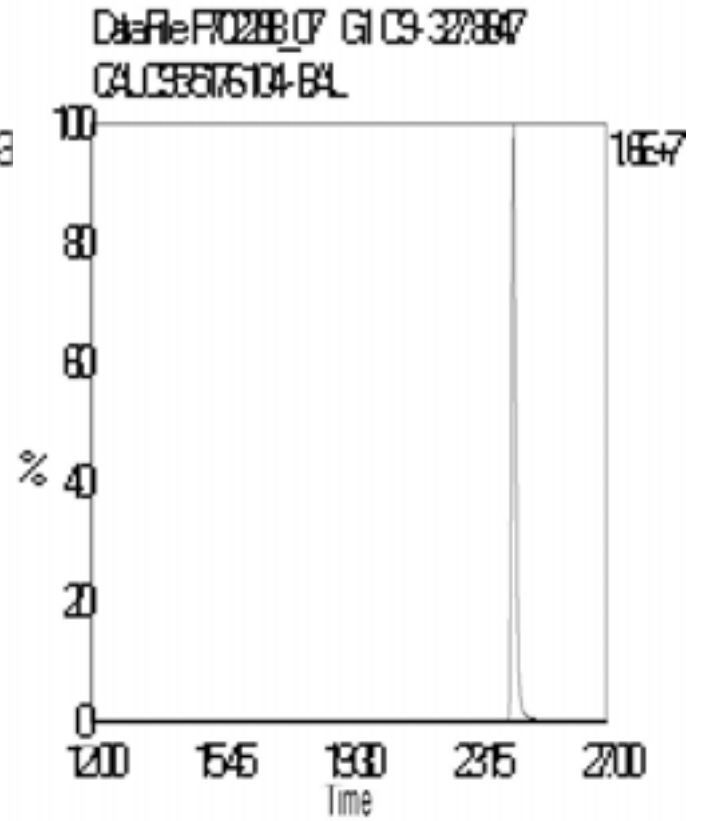
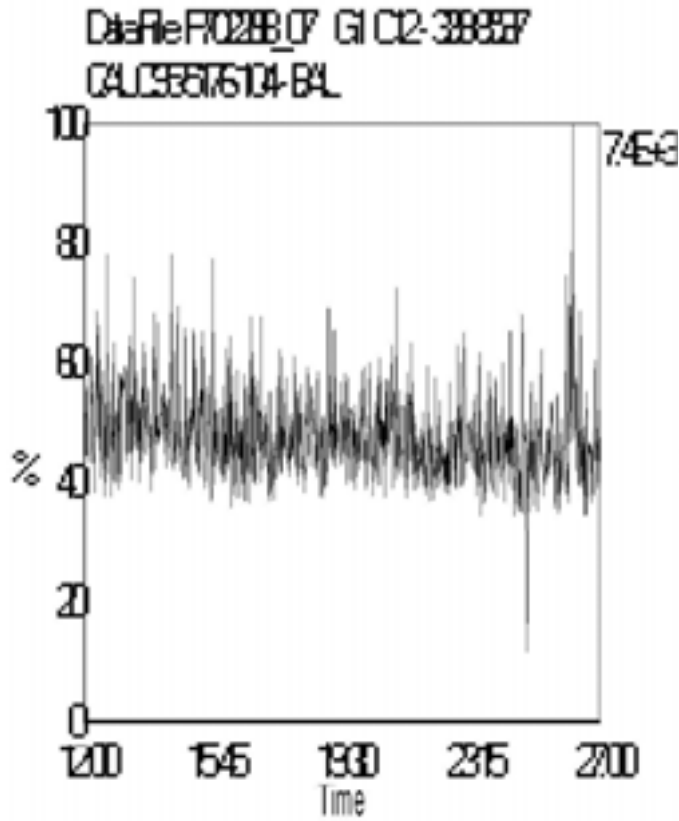
Data File Name: P70228B\_07  
Date Acquired: 2/28/2007  
Sample Description: CAL CS5-5176-104 - BAL

Lab Sample ID: CS5-5176-104  
Client Sample ID: CS-5  
Instrument: 10MSHR09 (P)



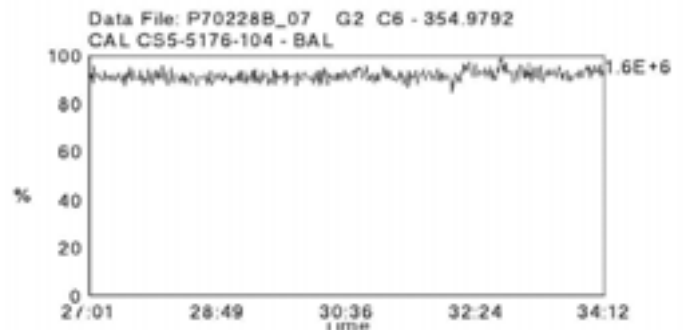
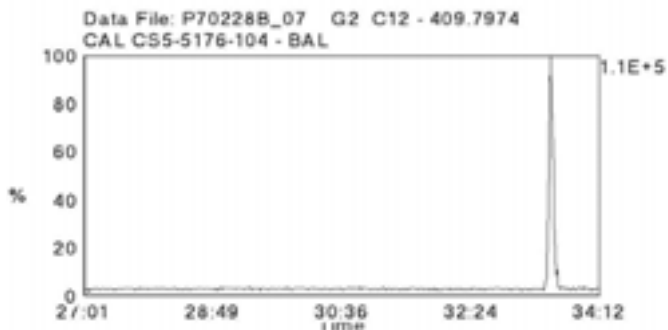
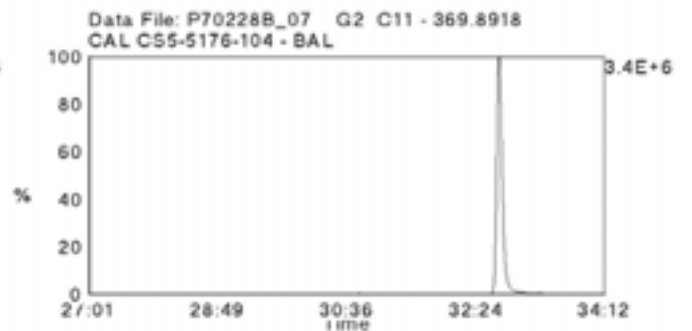
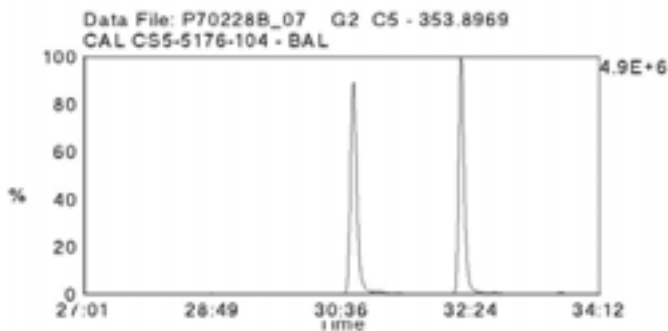
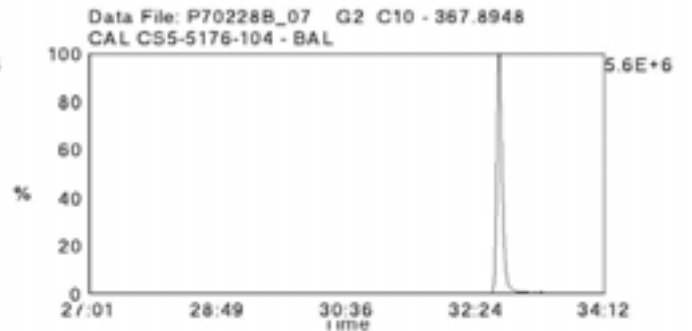
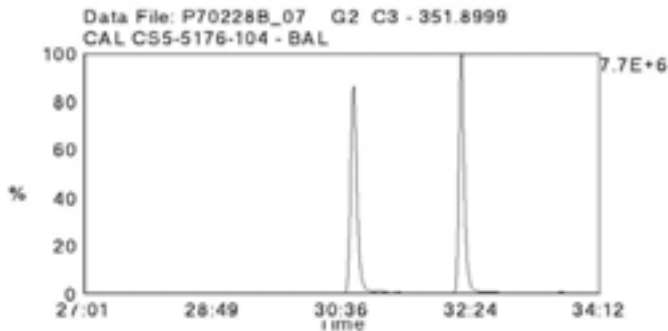
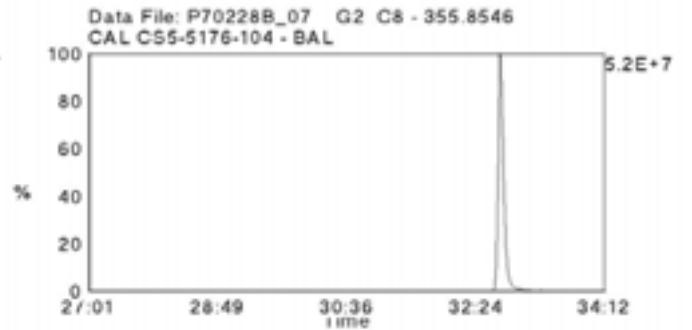
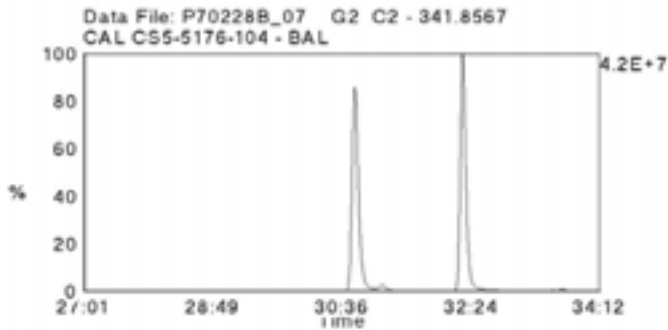
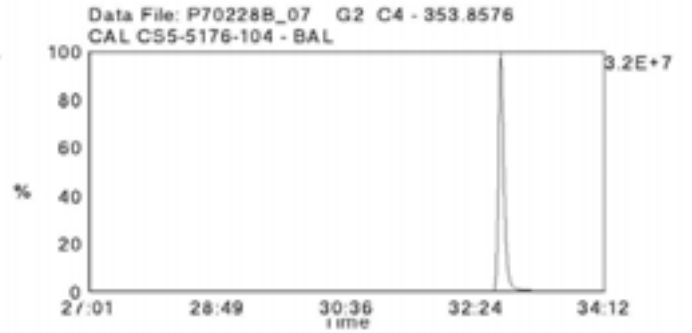
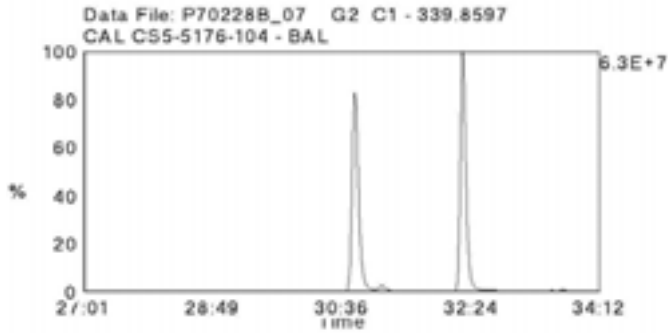
Data File Name: P70228B\_07  
Date Acquired: 2/28/2007  
Sample Description: CAL CS5-5176-104 - BAL

Lab Sample ID: CS5-5176-104  
Client Sample ID: CS-5  
Instrument: 10MSHR09 (P)



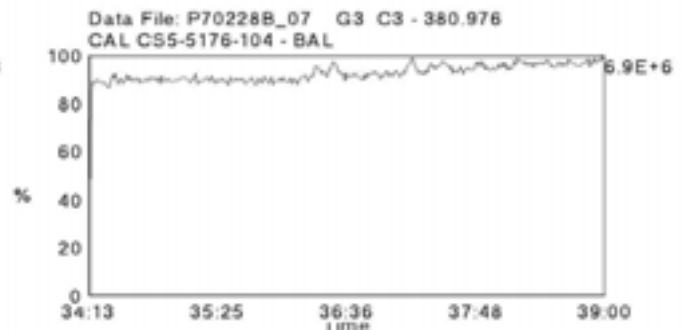
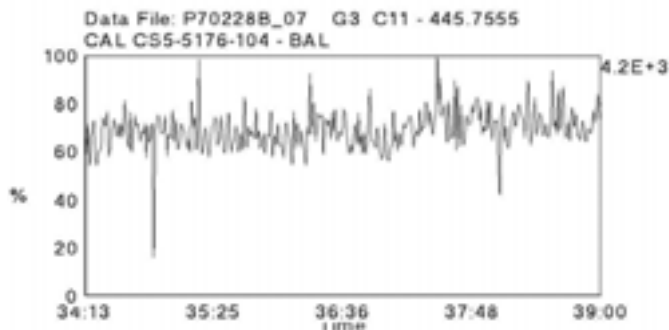
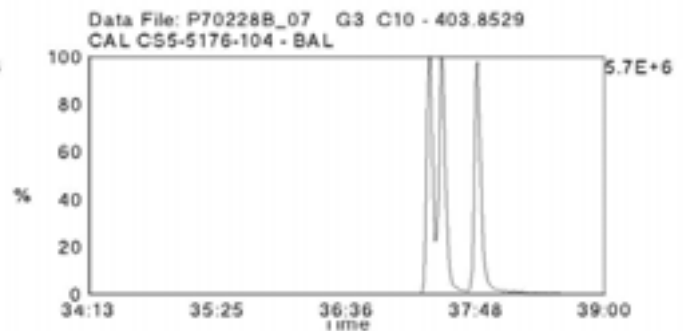
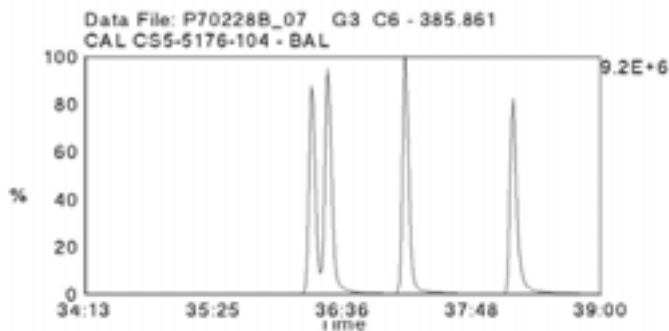
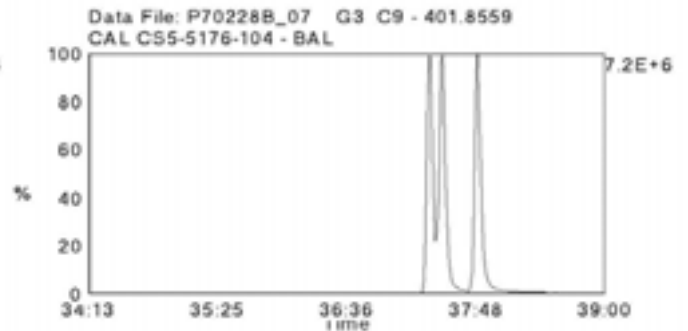
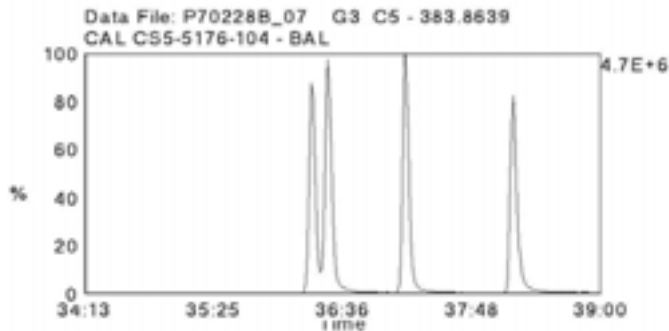
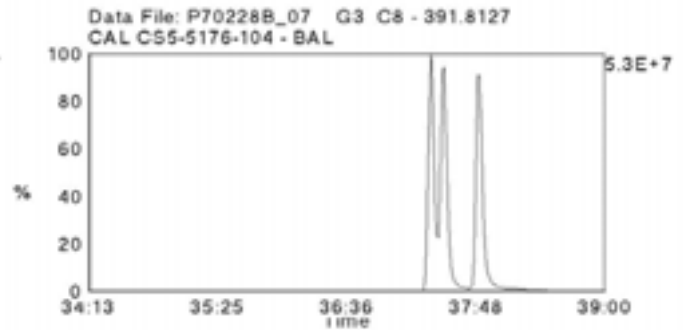
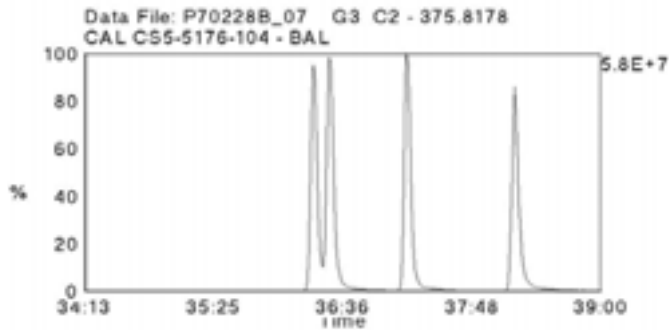
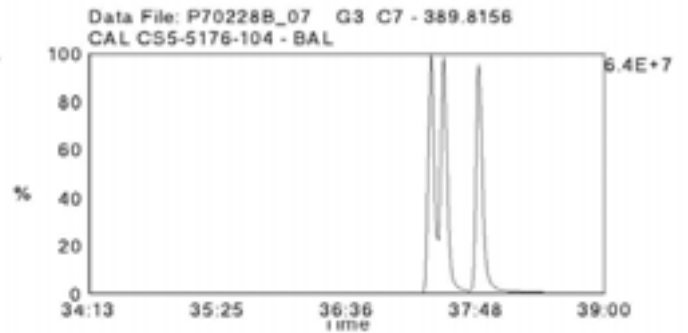
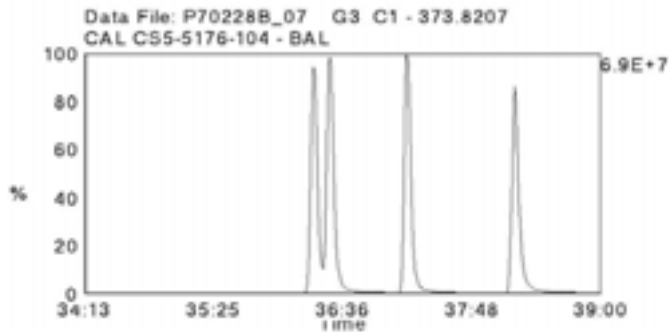
Data File Name: P70228B\_07  
Date Acquired: 2/28/2007  
Sample Description: CAL CS5-5176-104 - BAL

Lab Sample ID: CS5-5176-104  
Client Sample ID: CS-5  
Instrument: 10MSHR09 (P)



Data File Name: P70228B\_07  
Date Acquired: 2/28/2007  
Sample Description: CAL CS5-5176-104 - BAL

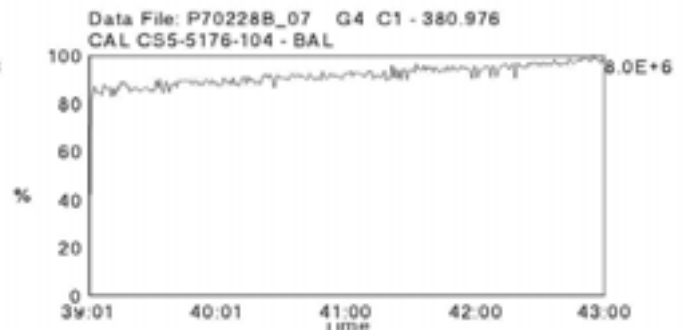
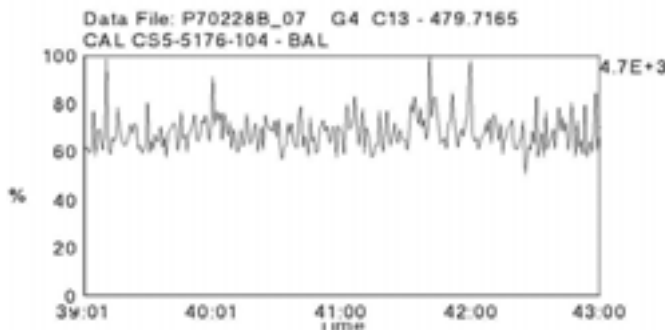
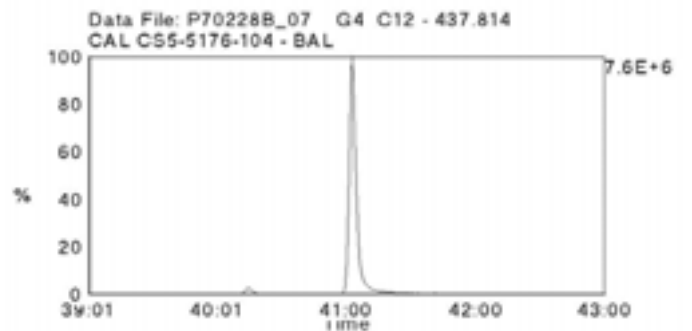
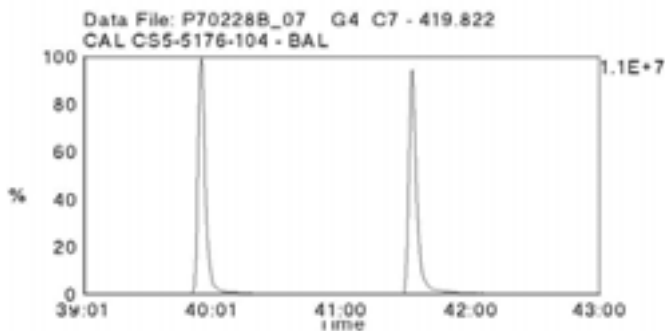
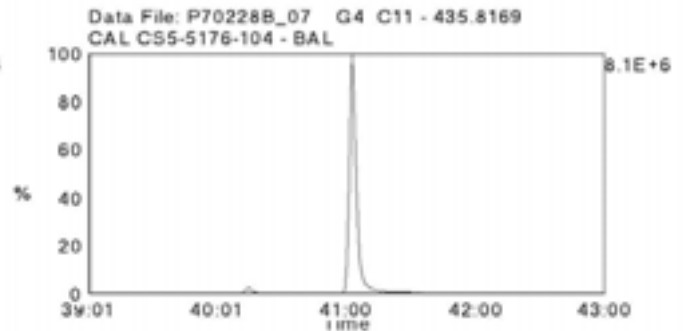
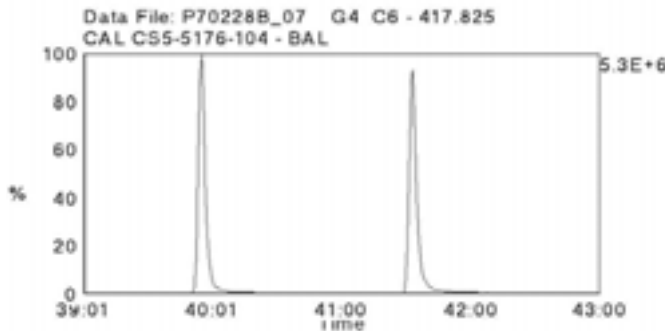
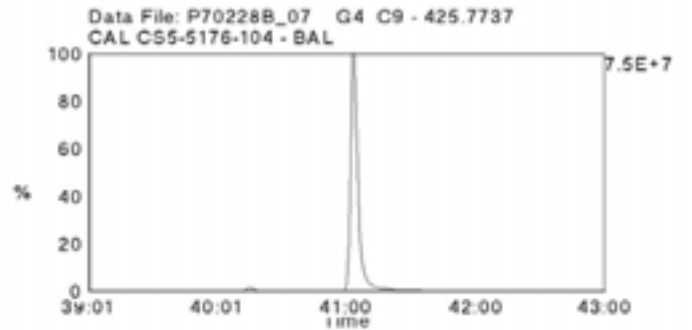
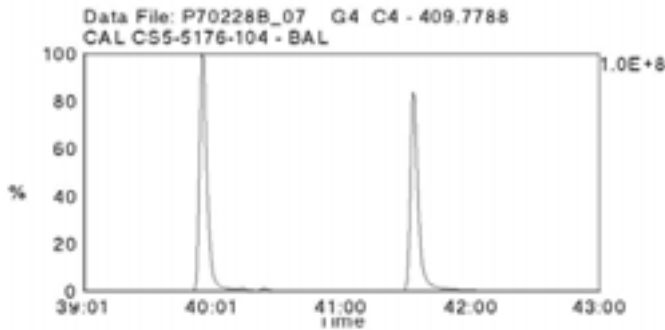
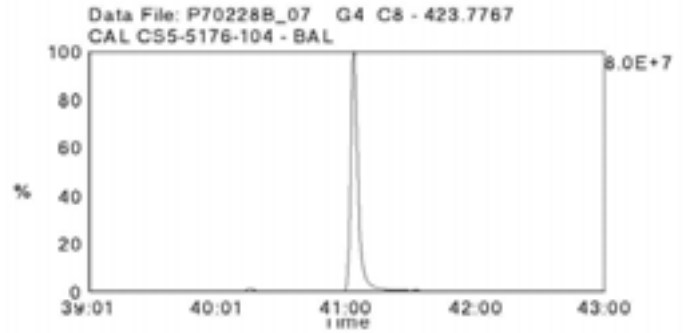
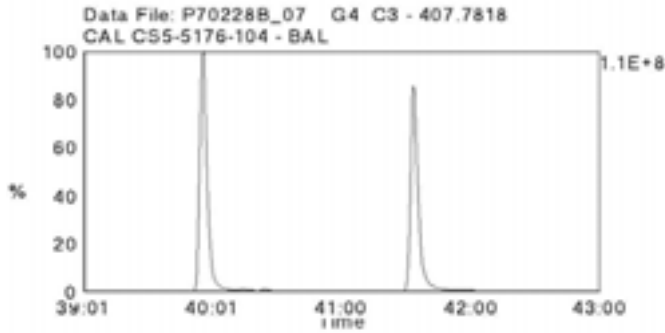
Lab Sample ID: CS5-5176-104  
Client Sample ID: CS-5  
Instrument: 10MSHR09 (P)





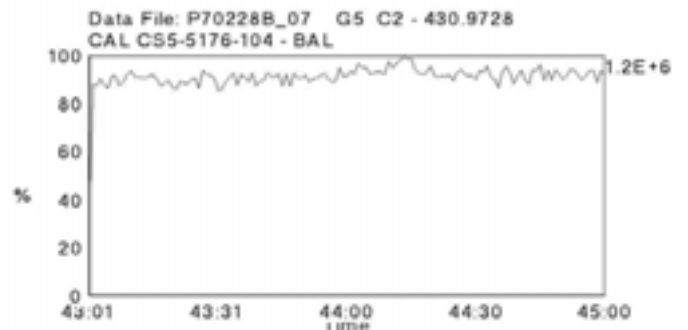
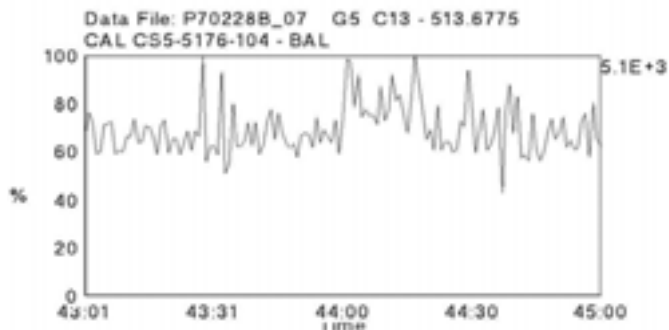
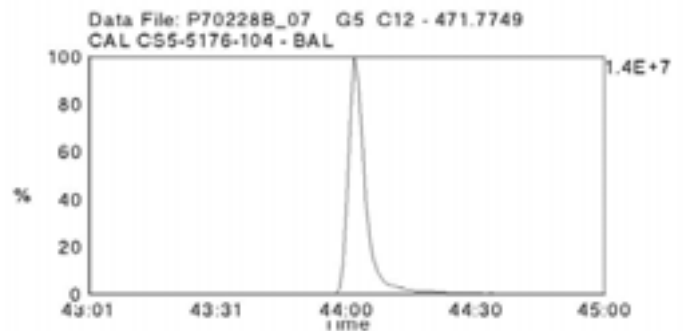
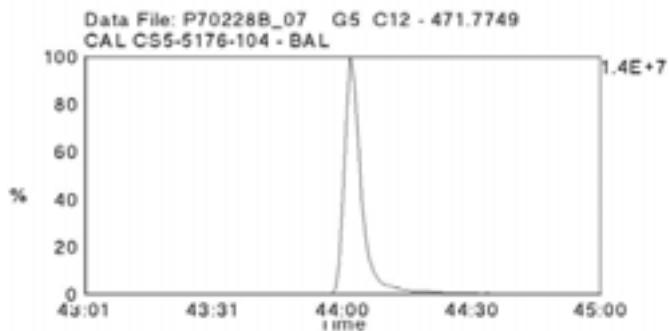
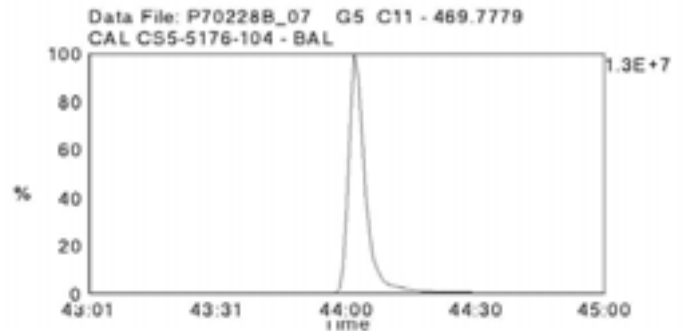
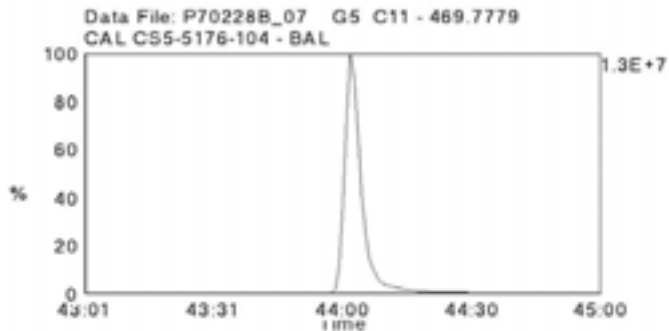
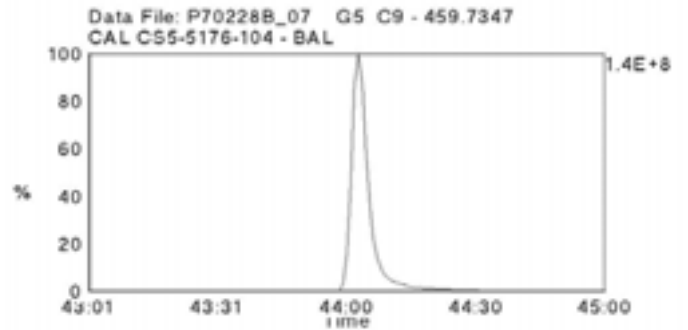
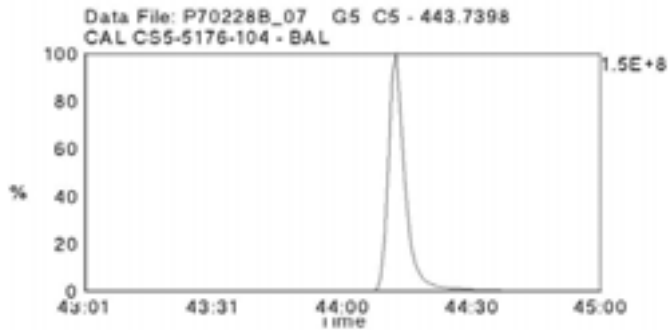
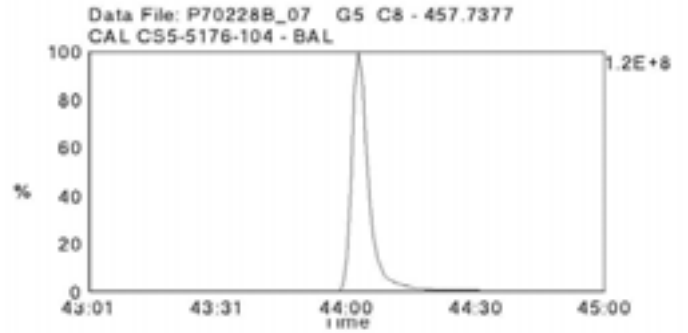
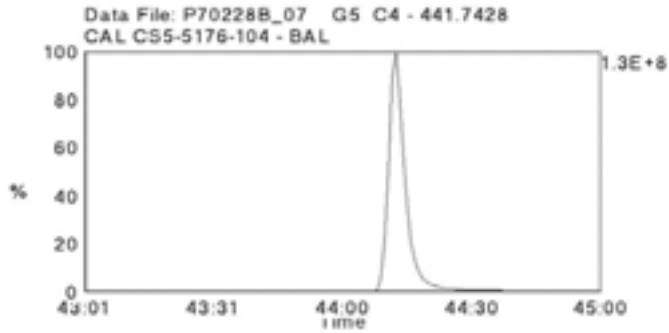
Data File Name: P70228B\_07  
Date Acquired: 2/28/2007  
Sample Description: CAL CS5-5176-104 - BAL

Lab Sample ID: CS5-5176-104  
Client Sample ID: CS-5  
Instrument: 10MSHR09 (P)



Data File Name: P70228B\_07  
Date Acquired: 2/28/2007  
Sample Description: CAL CS5-5176-104 - BAL

Lab Sample ID: CS5-5176-104  
Client Sample ID: CS-5  
Instrument: 10MSHR09 (P)



Data File Name: P70306A\_03

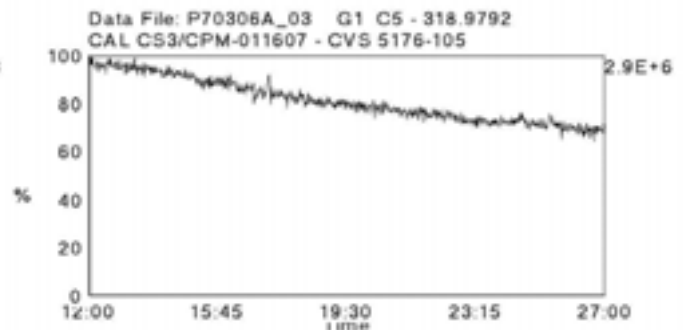
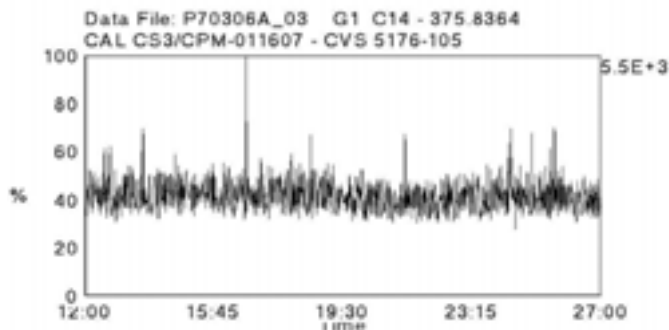
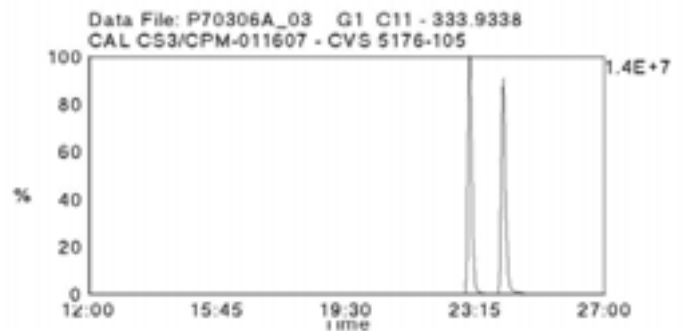
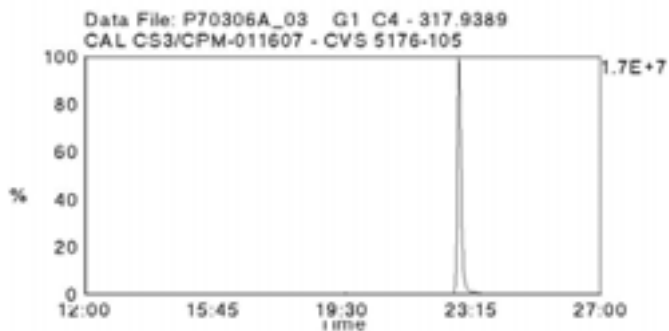
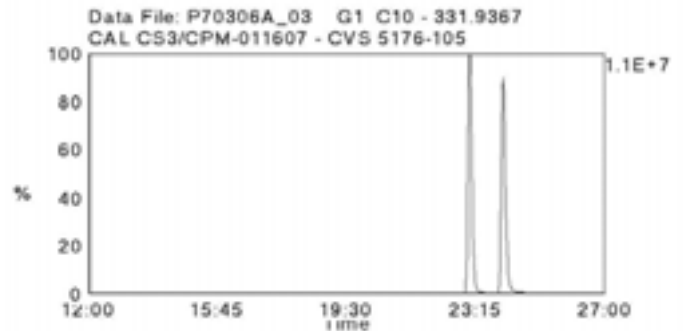
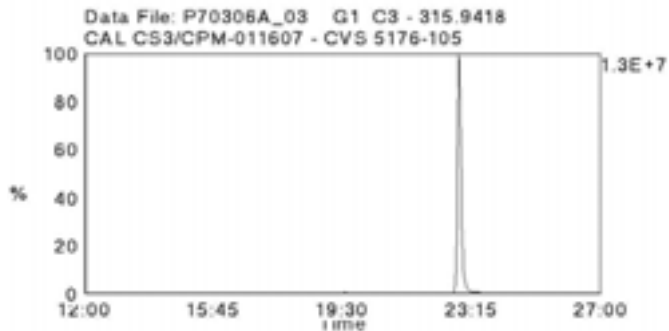
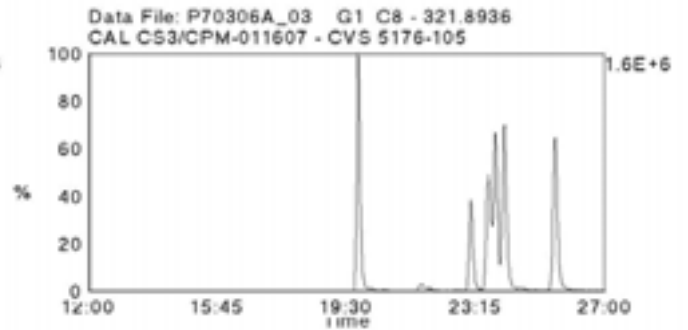
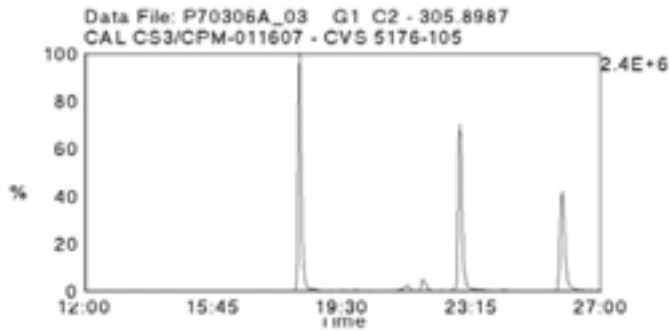
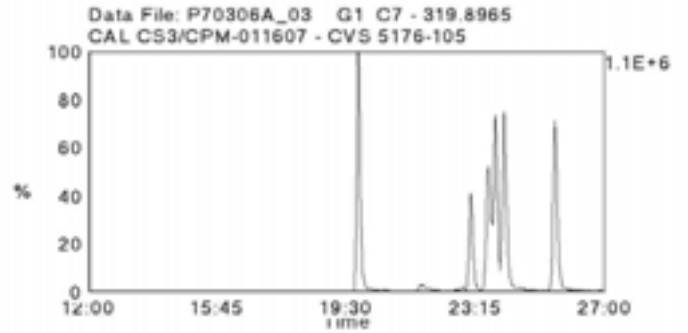
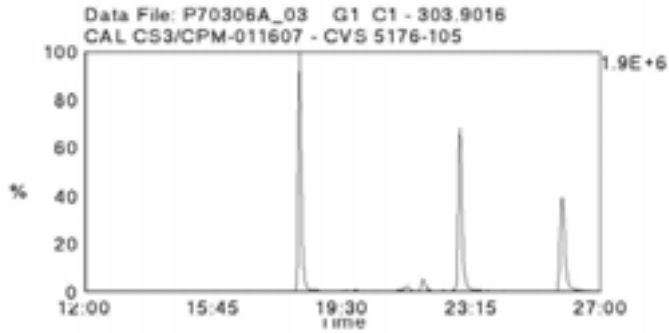
Date Acquired: 3/6/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70306A\_03

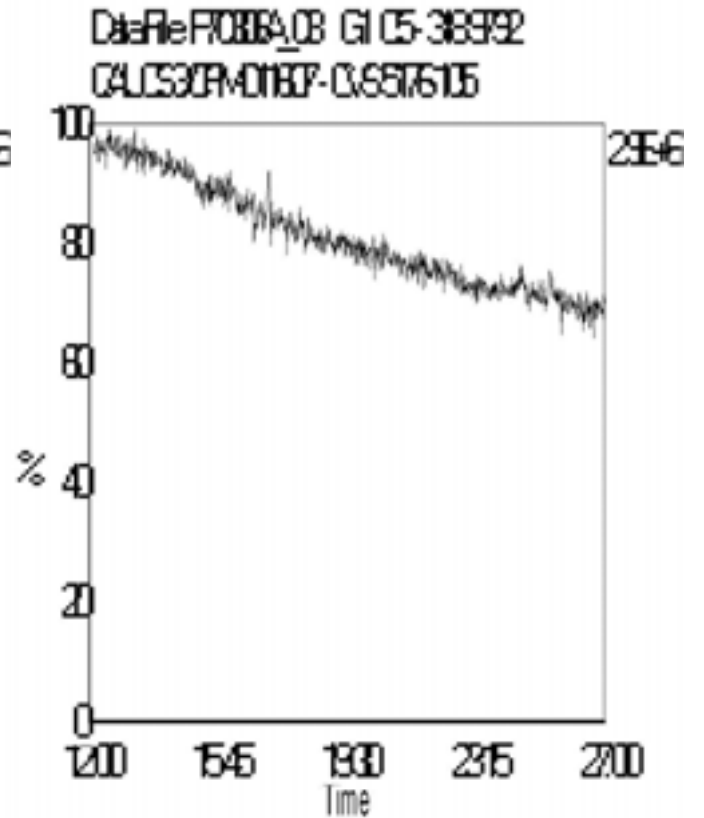
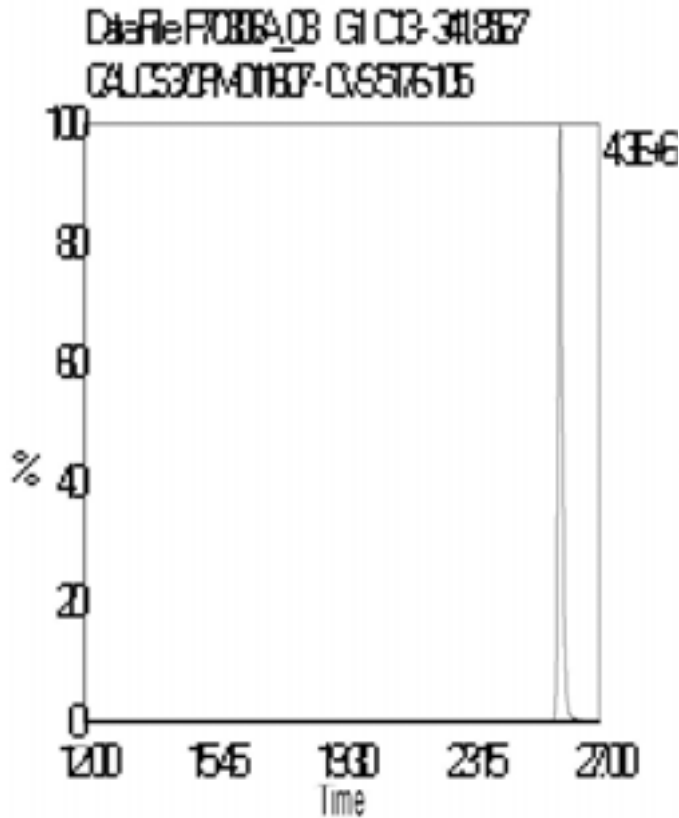
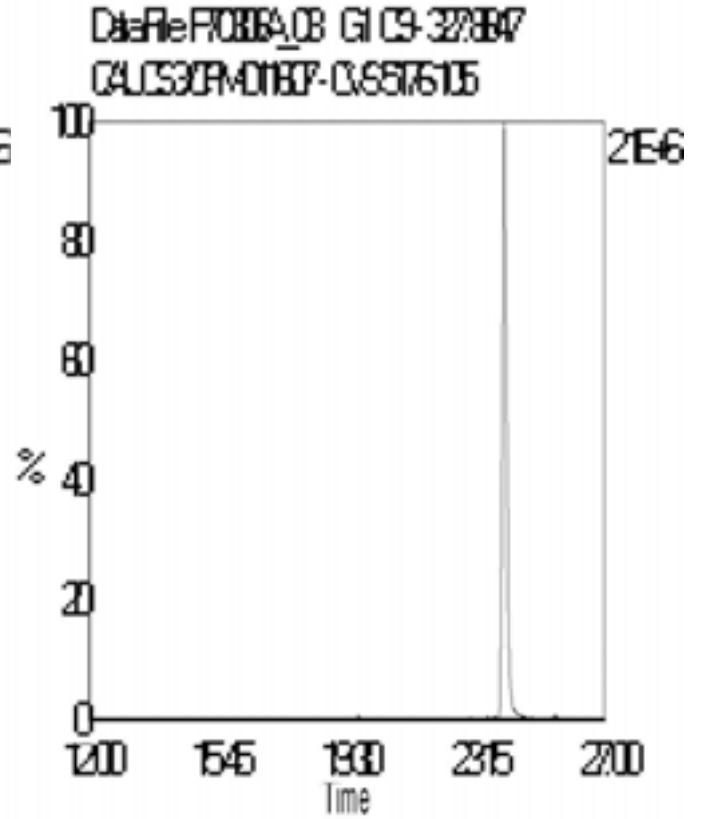
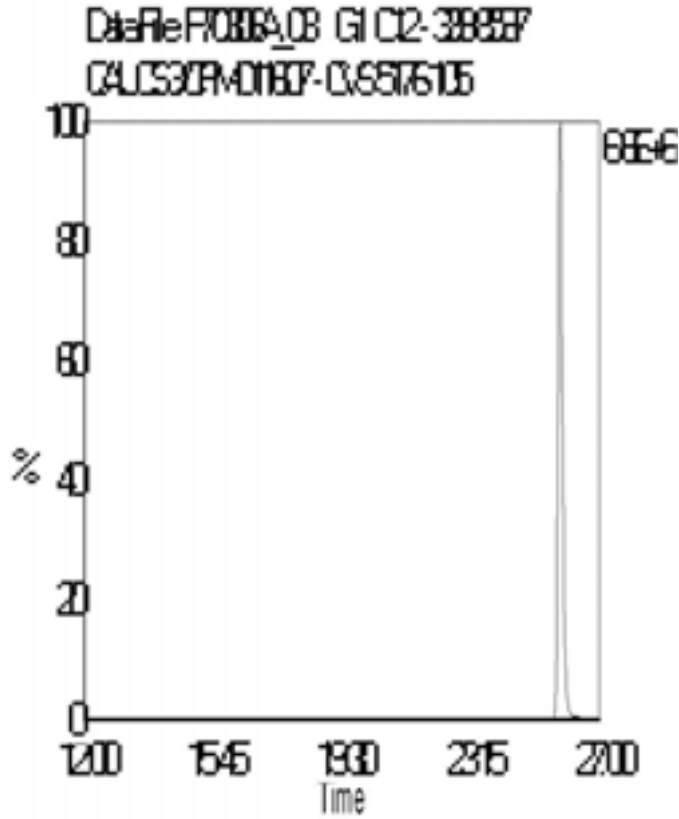
Date Acquired: 3/6/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70306A\_03

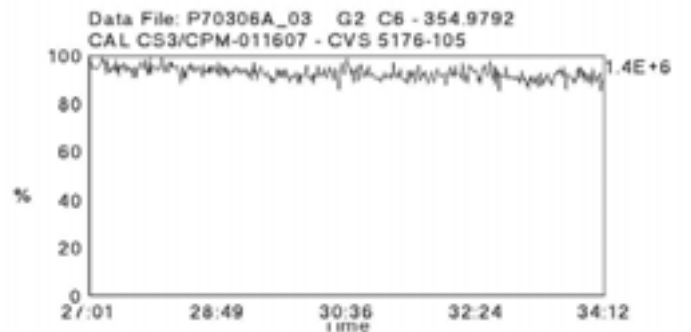
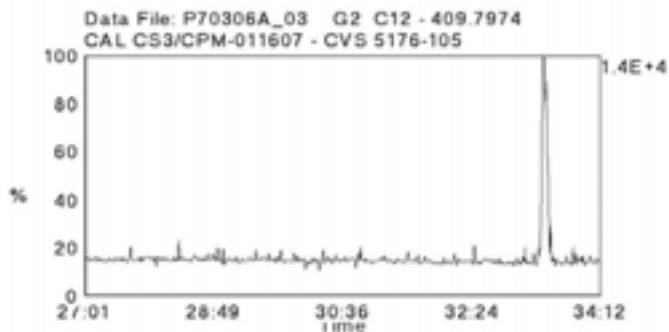
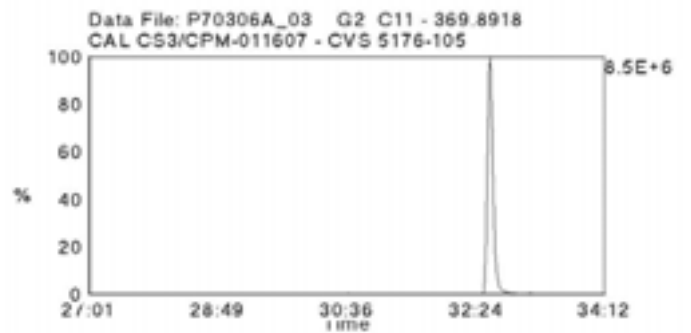
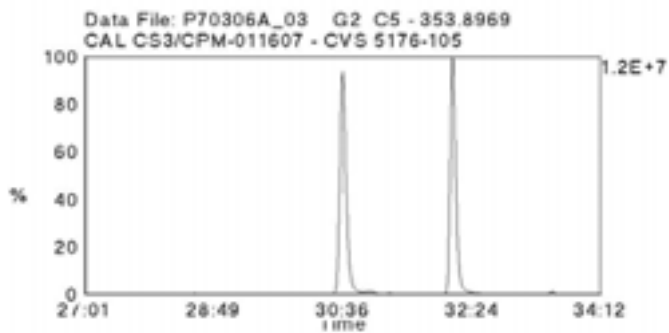
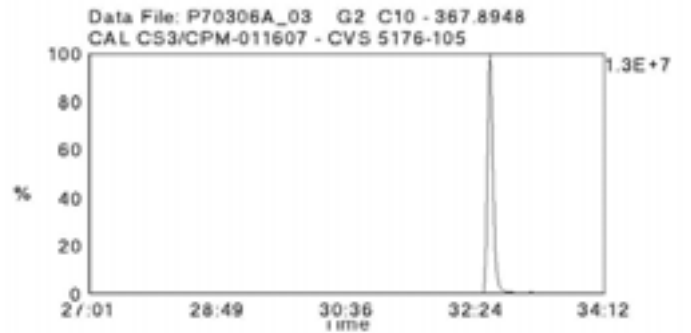
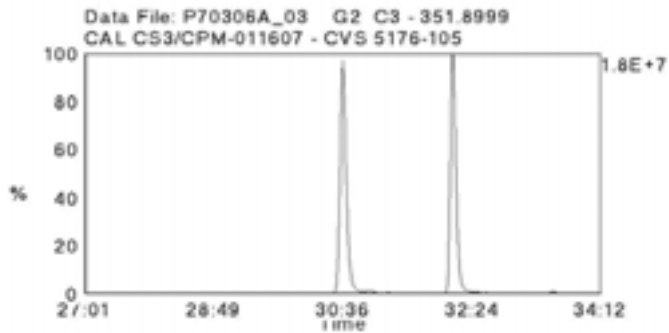
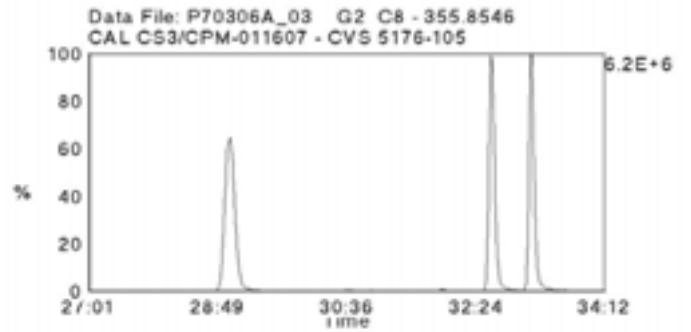
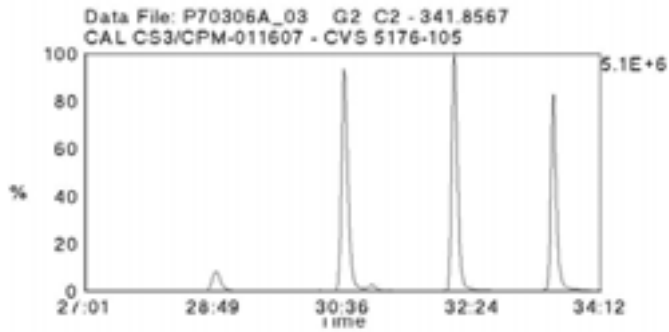
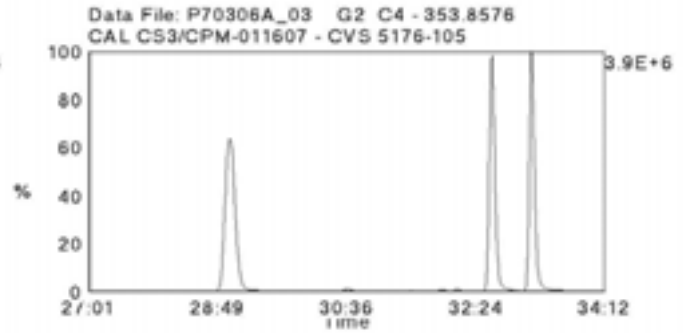
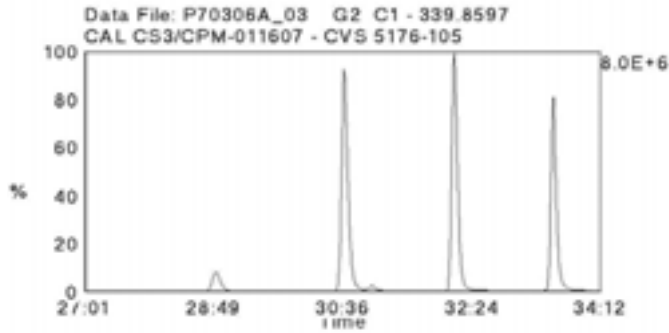
Date Acquired: 3/6/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70306A\_03

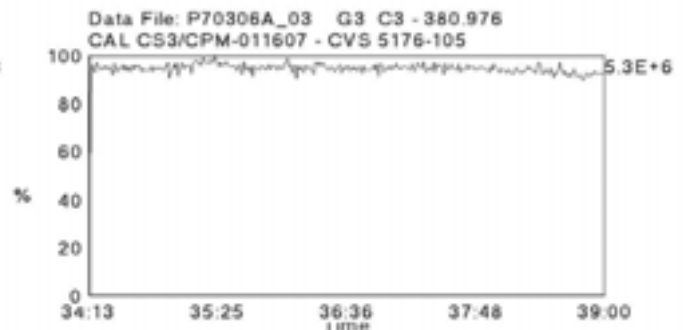
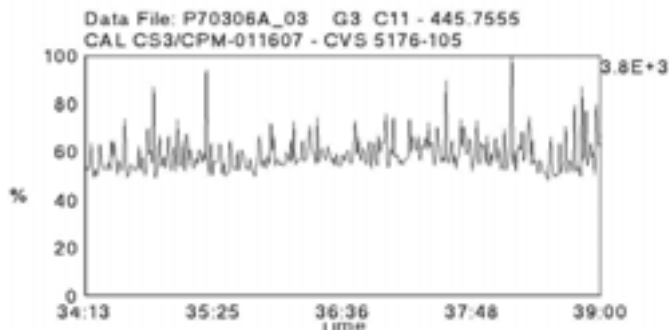
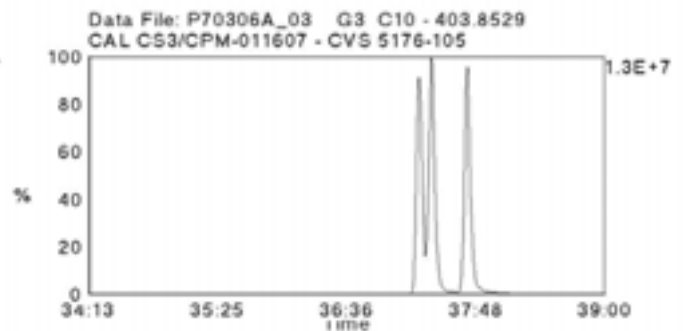
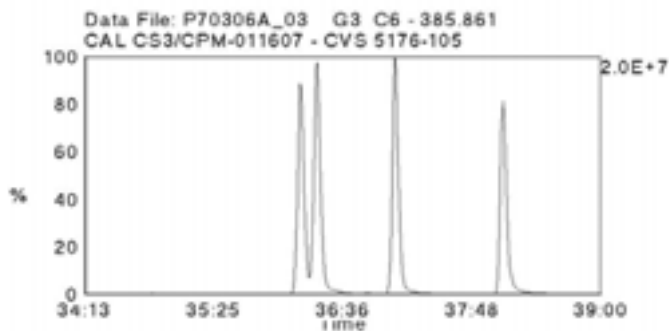
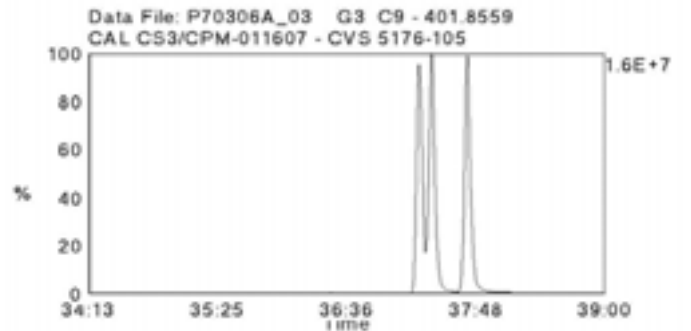
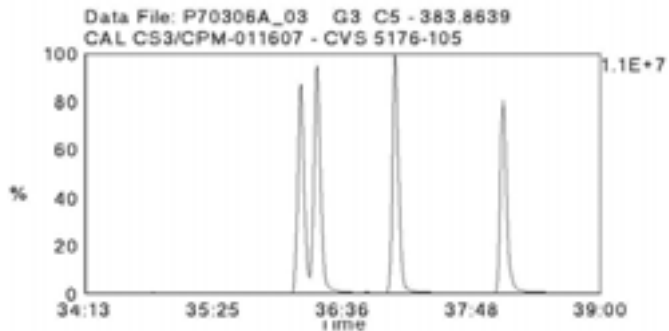
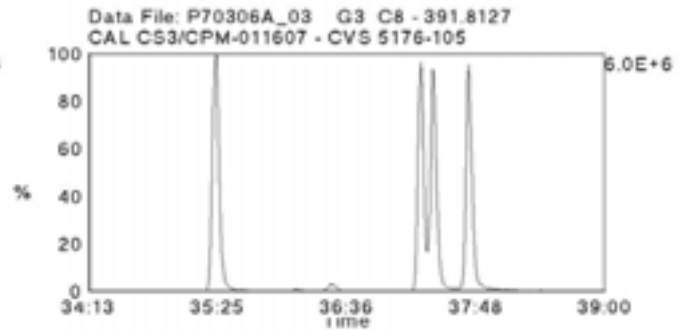
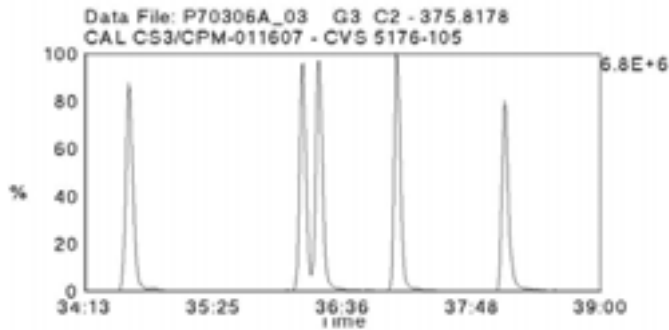
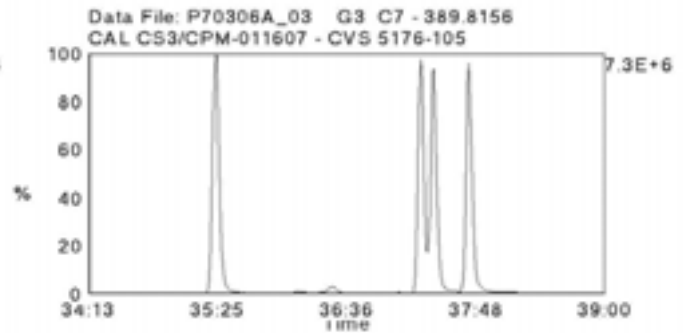
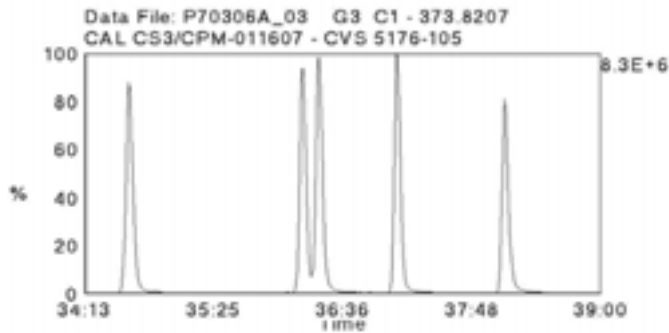
Date Acquired: 3/6/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70306A\_03

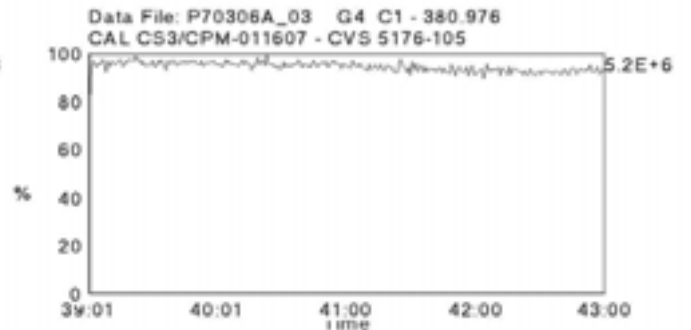
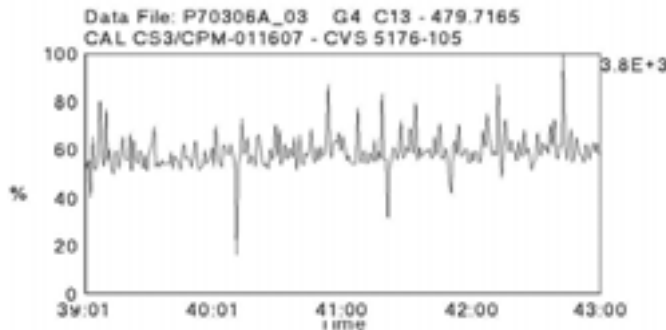
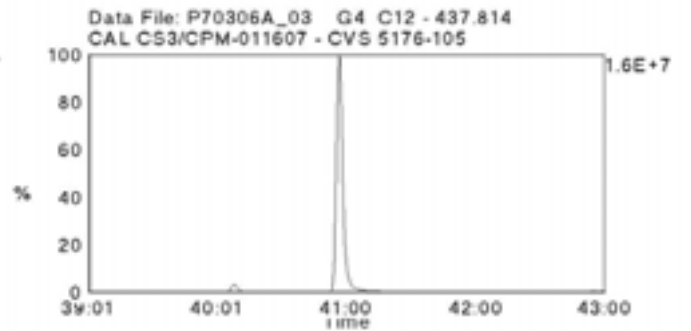
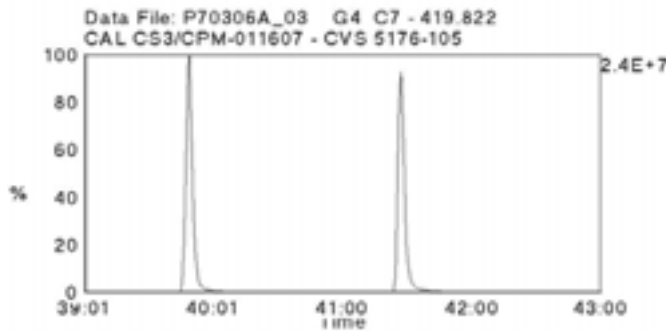
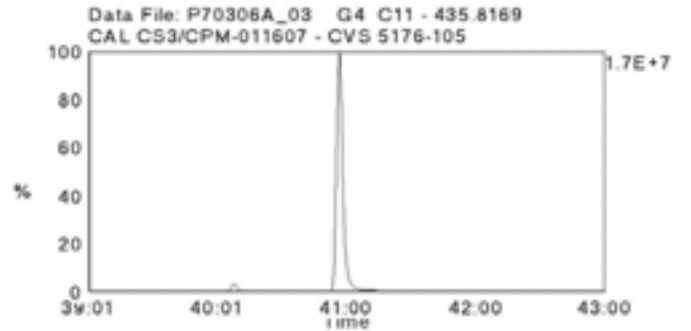
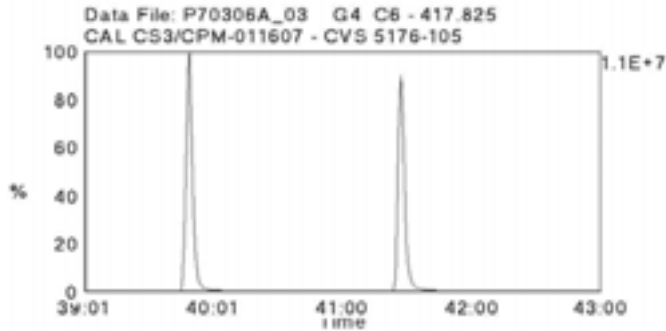
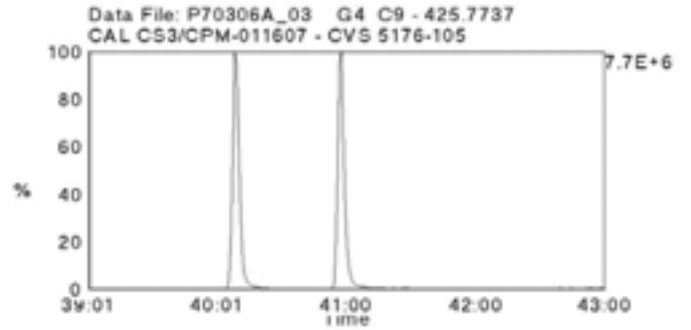
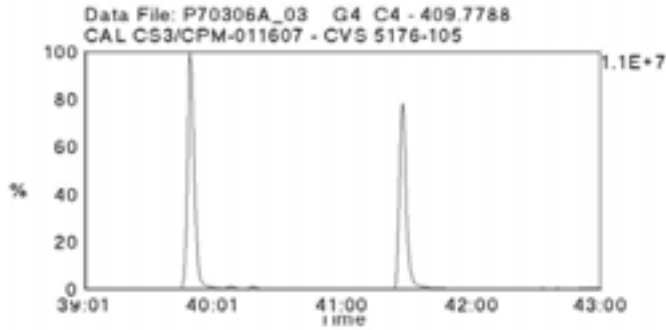
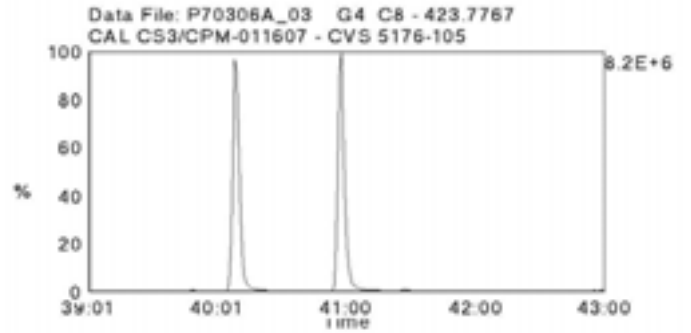
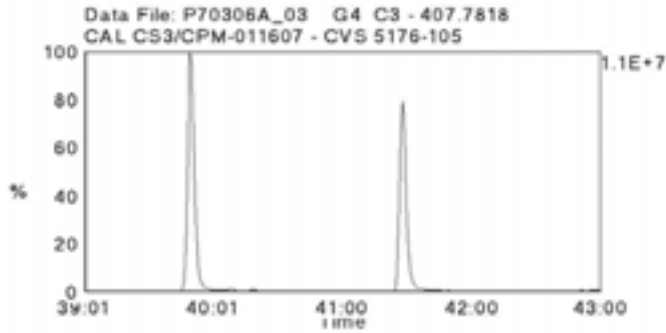
Date Acquired: 3/6/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70306A\_03

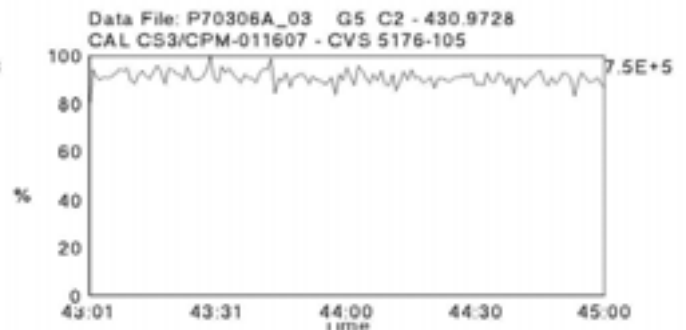
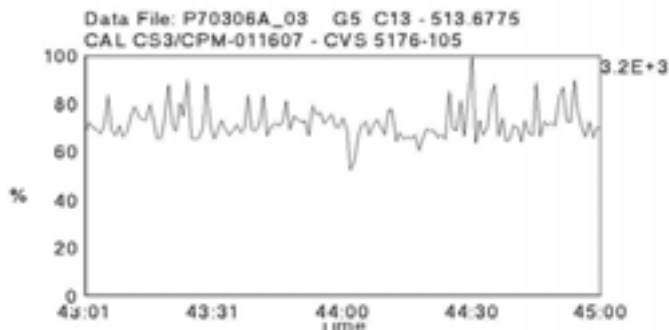
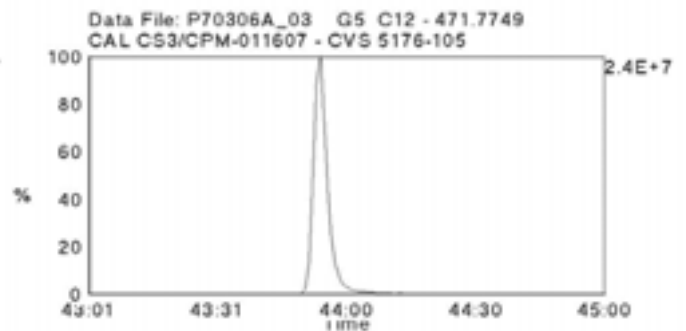
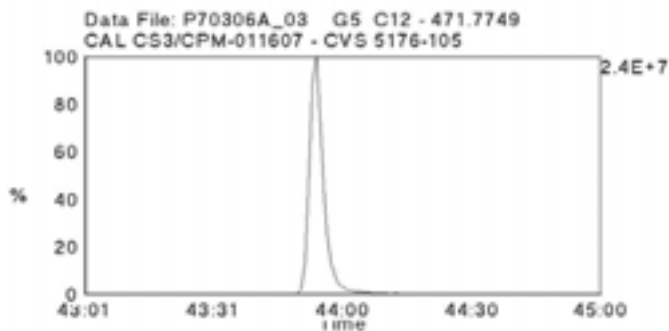
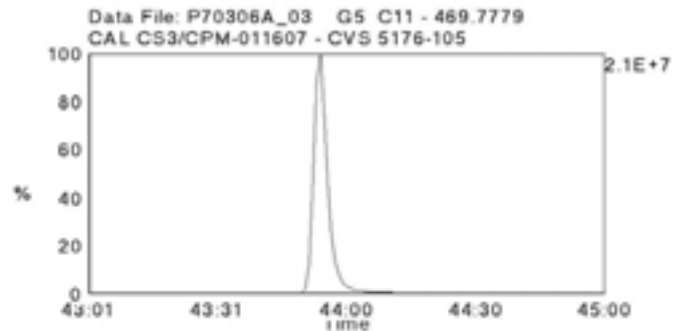
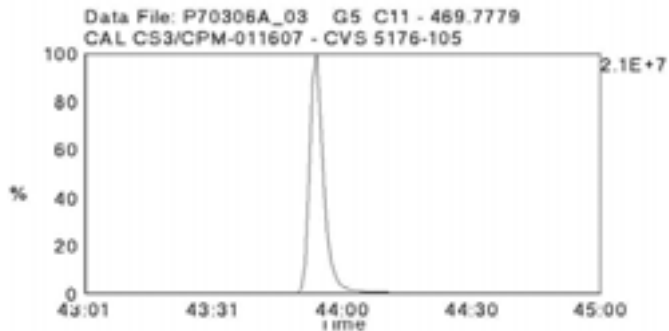
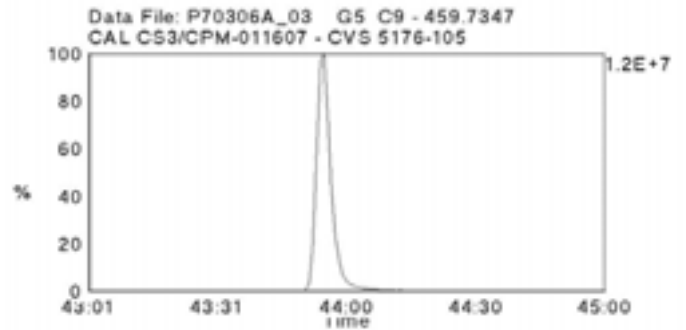
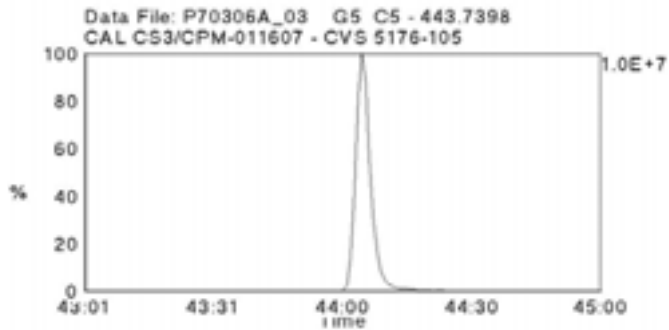
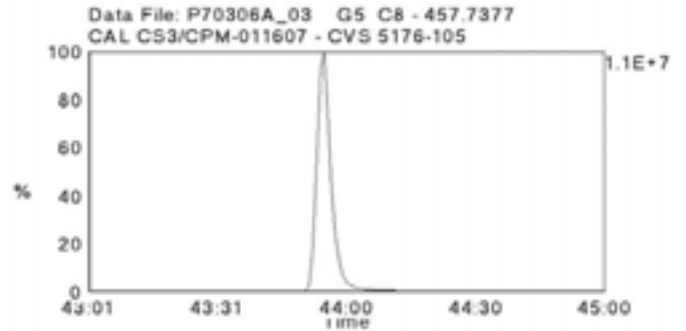
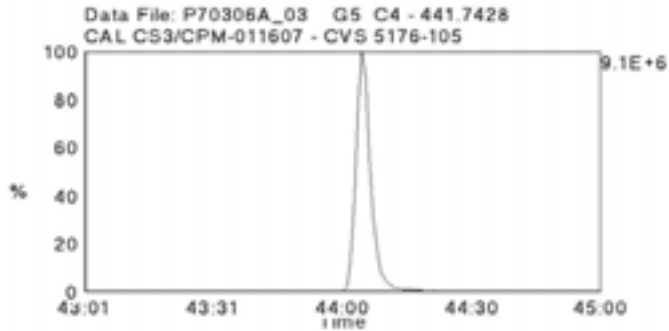
Date Acquired: 3/6/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)





Data File Name: P70306A\_18

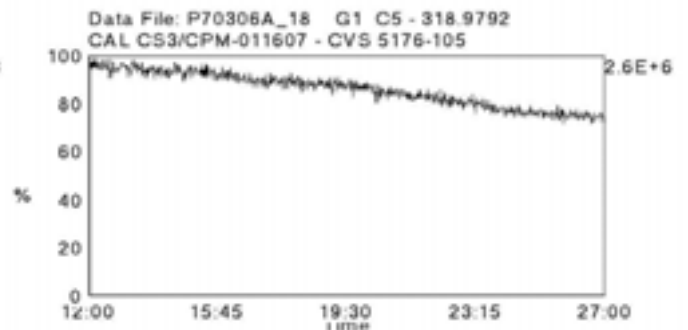
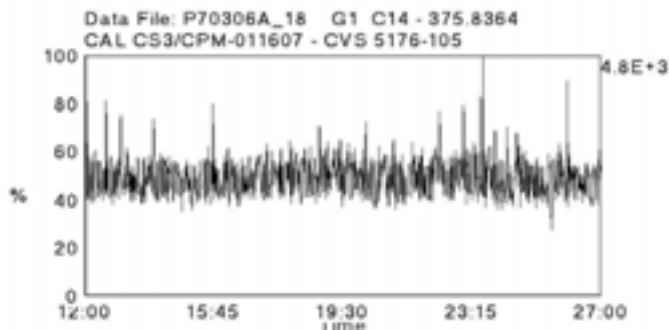
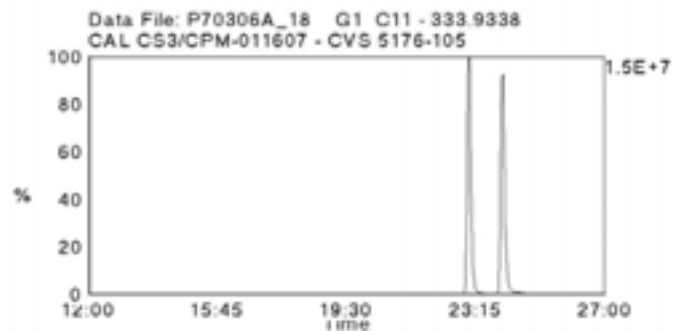
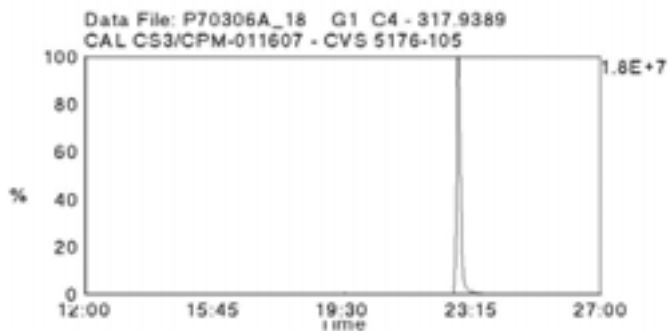
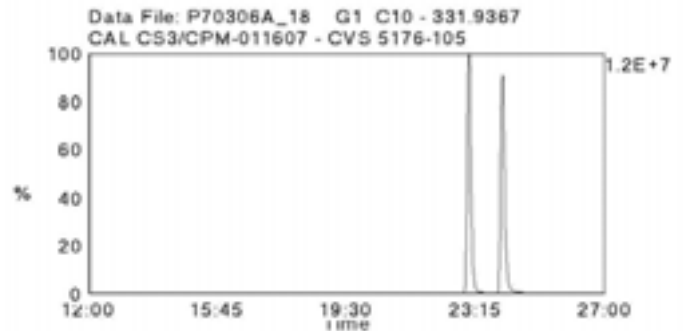
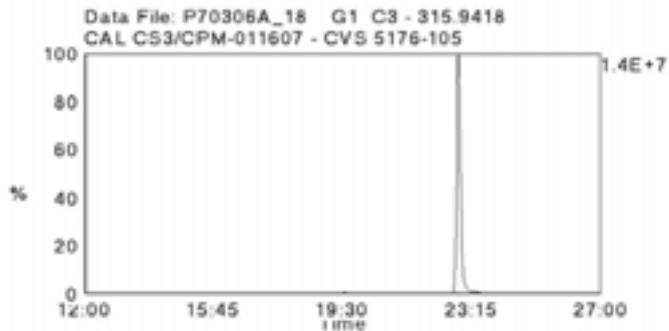
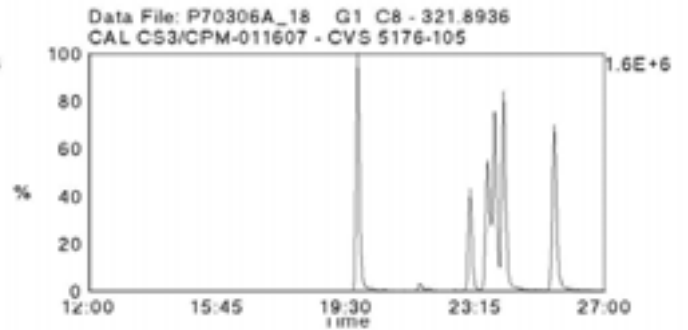
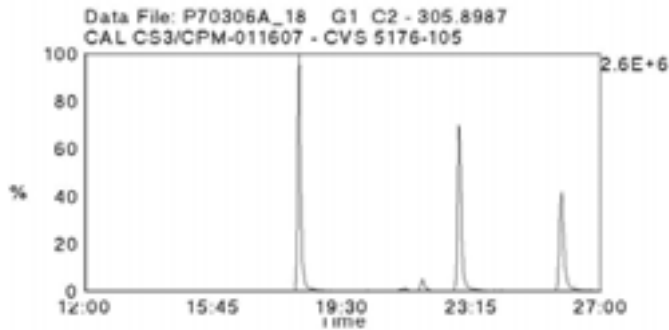
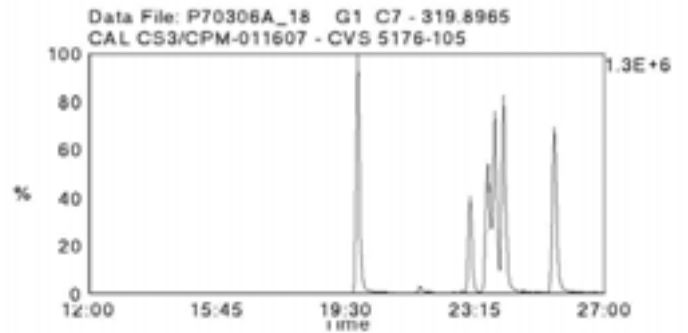
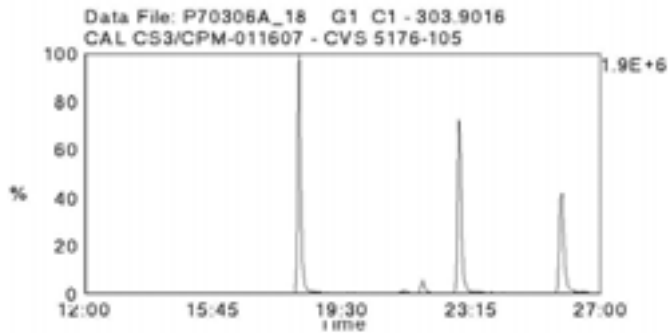
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70306A\_18

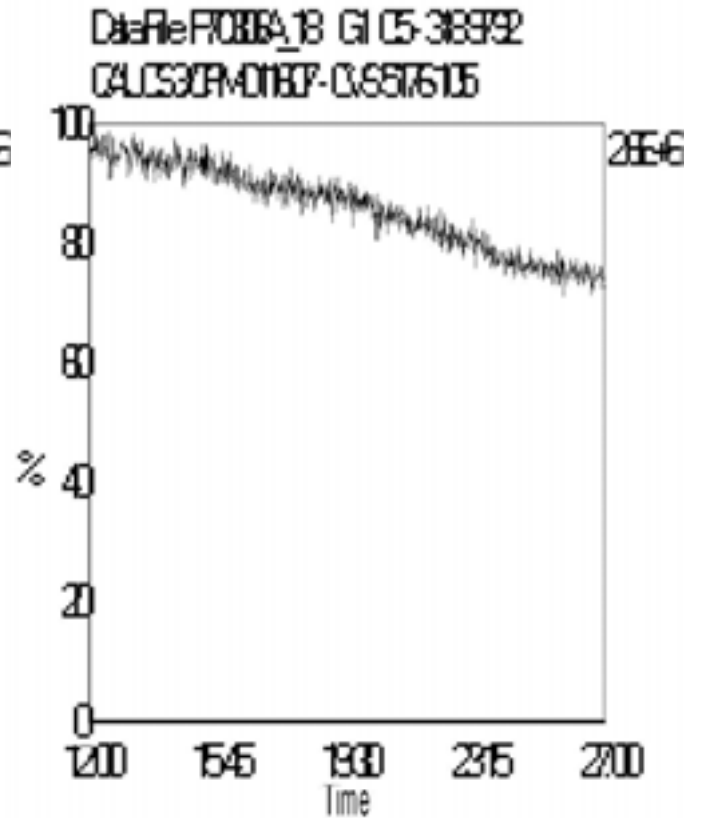
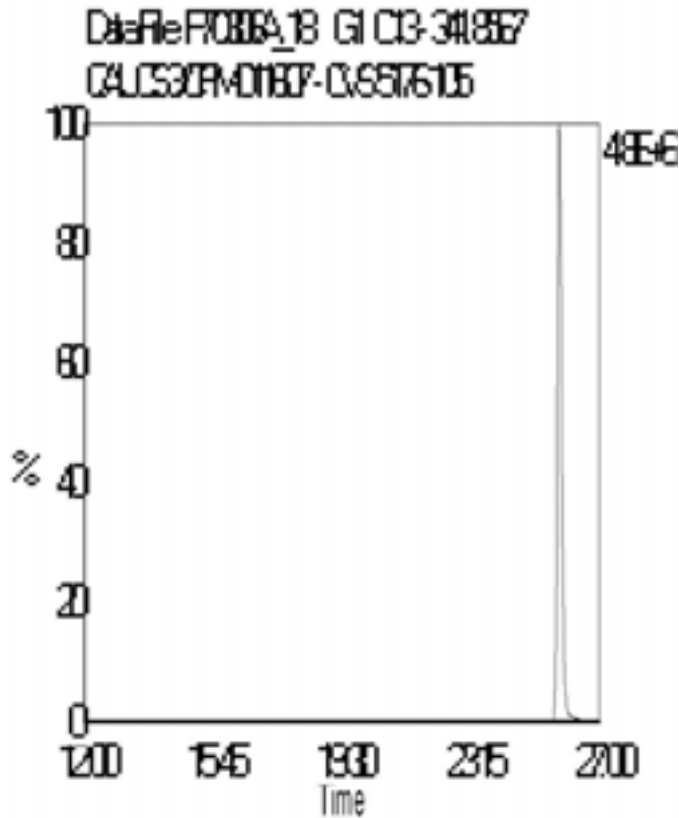
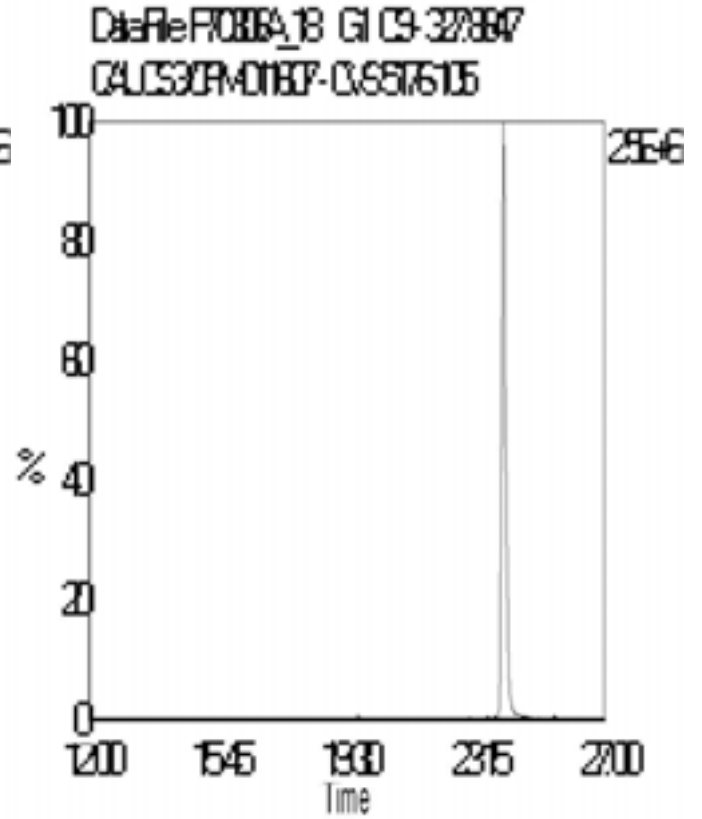
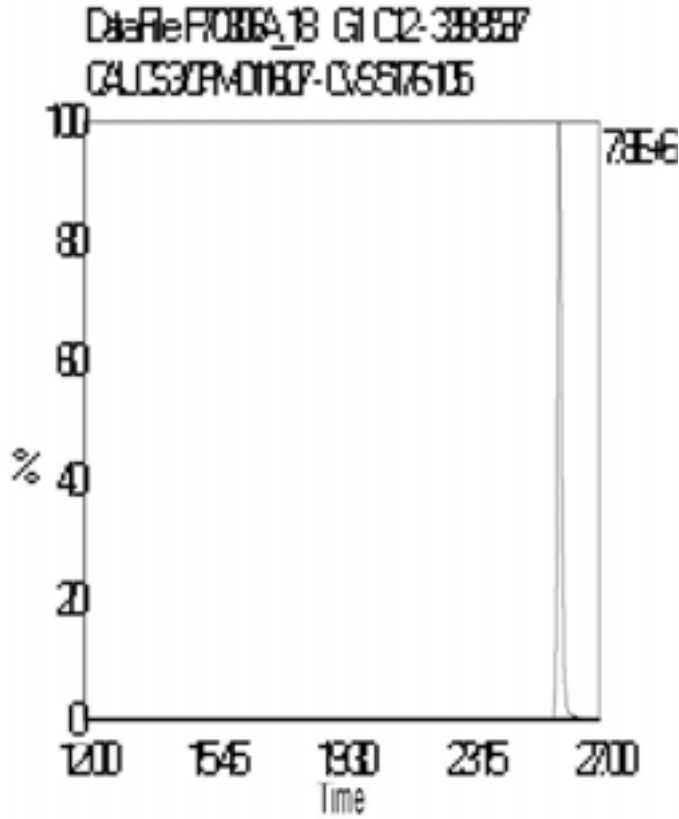
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70306A\_18

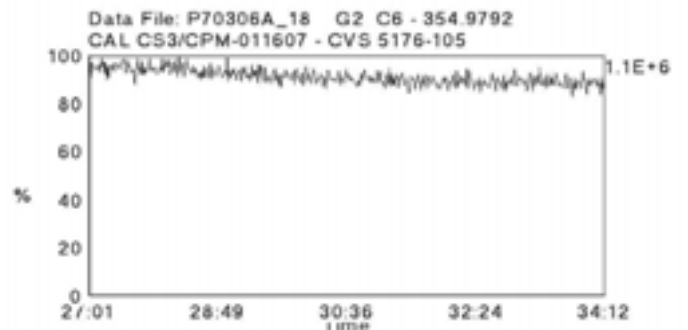
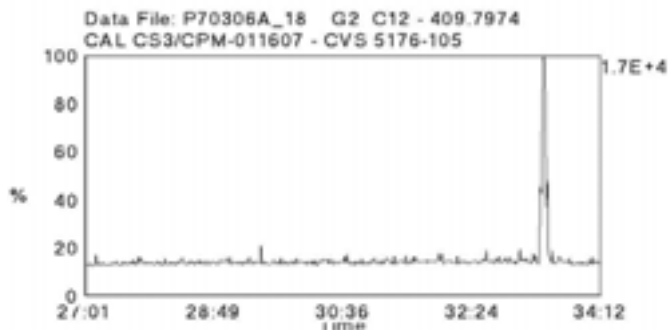
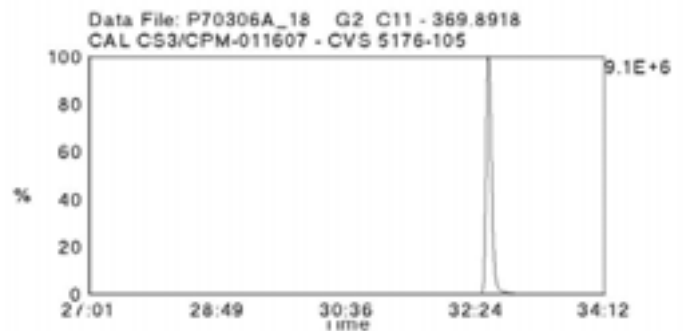
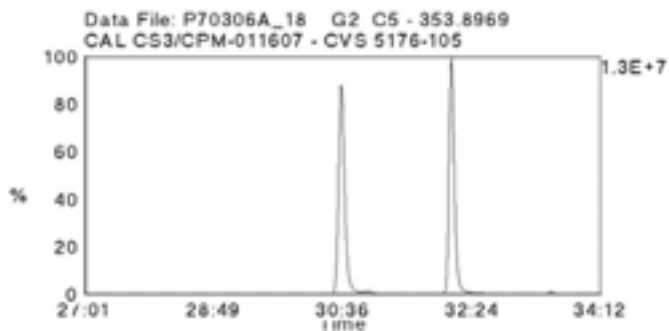
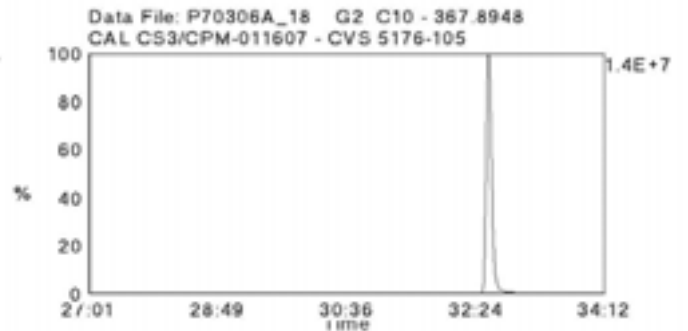
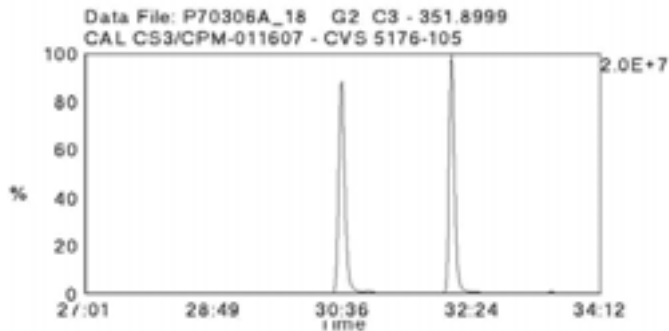
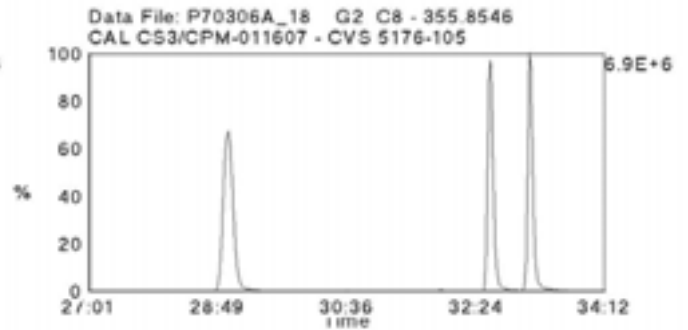
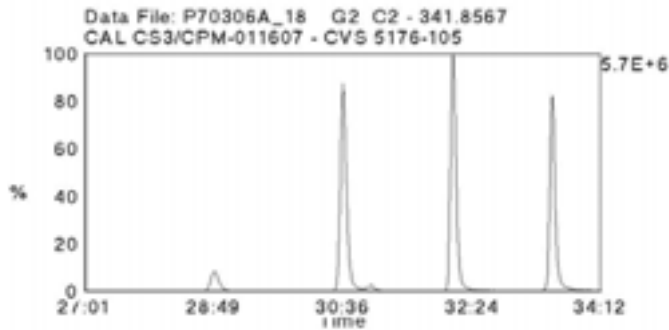
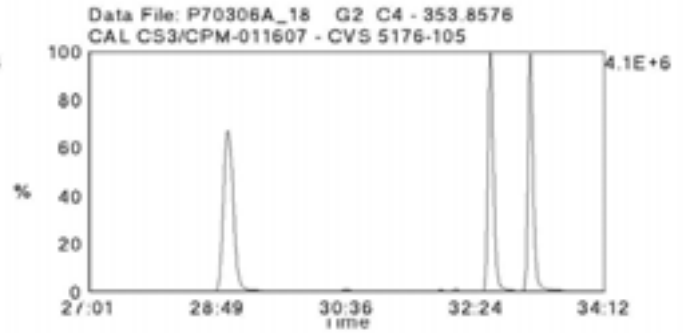
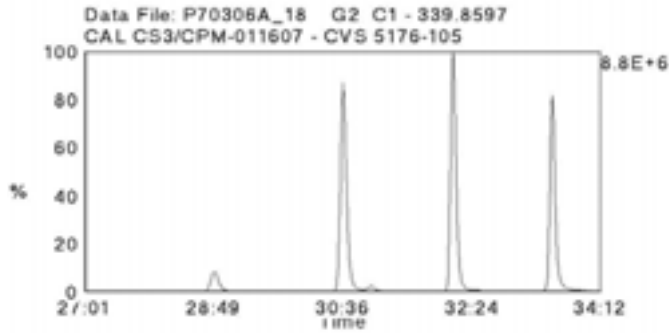
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70306A\_18

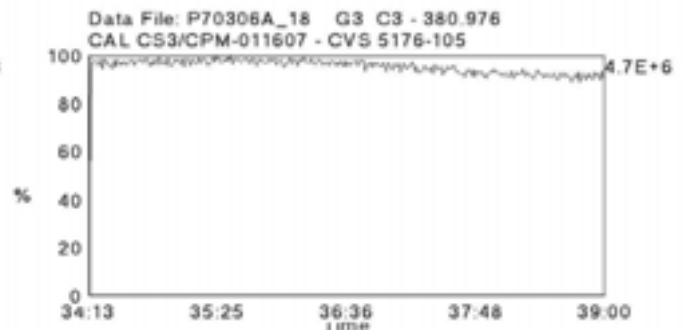
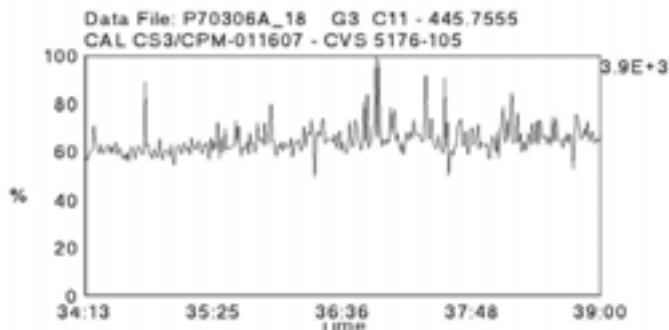
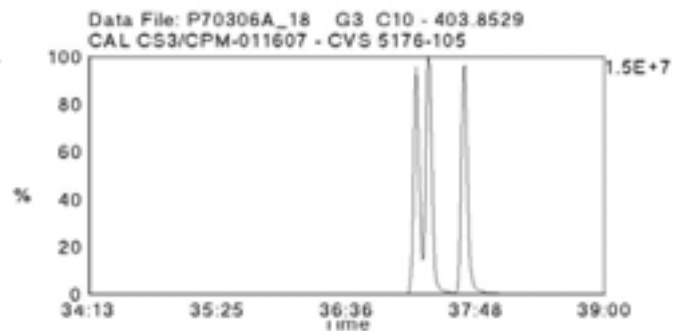
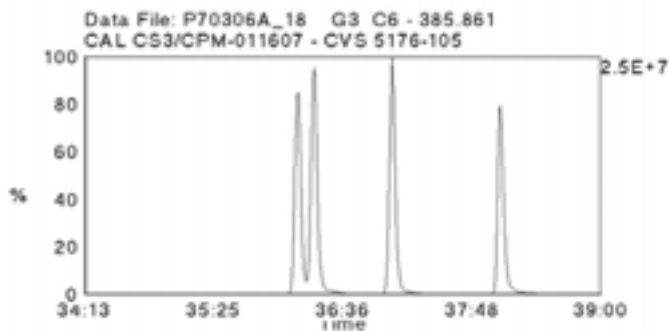
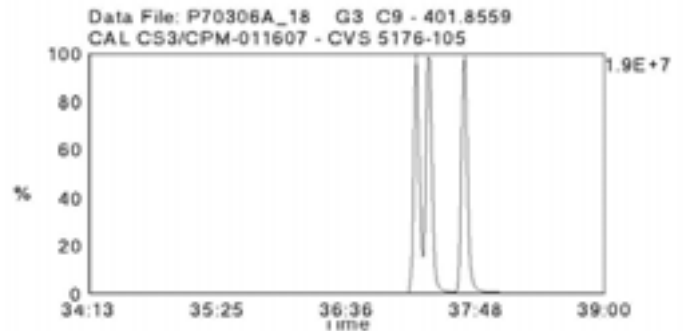
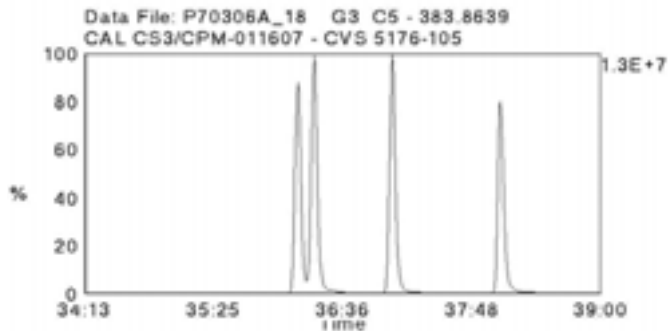
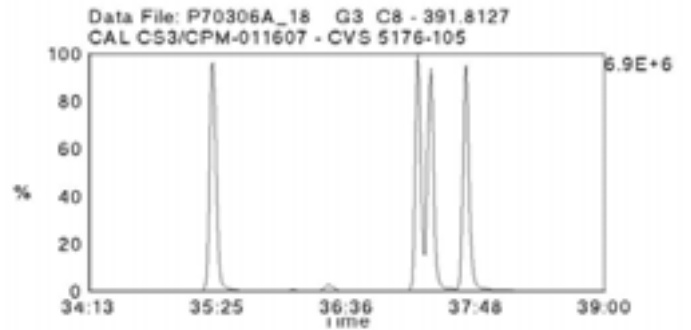
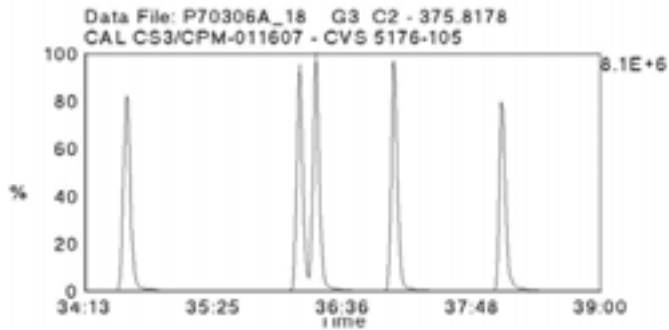
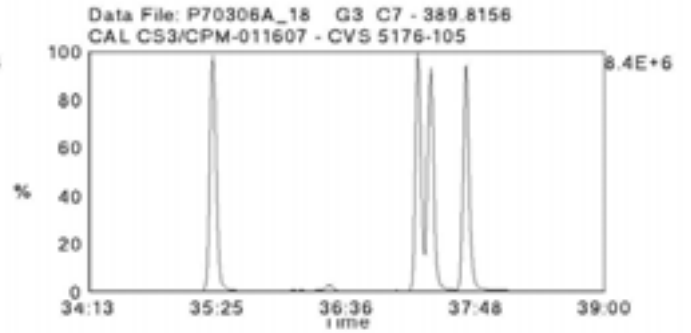
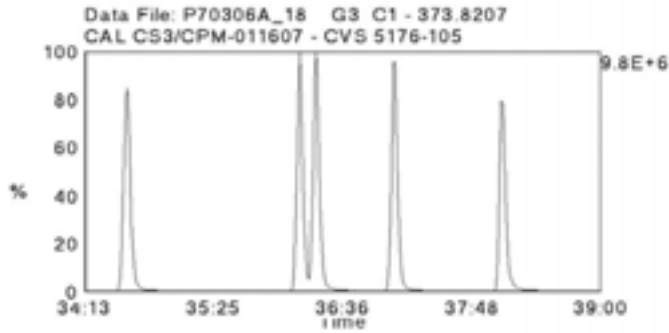
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70306A\_18

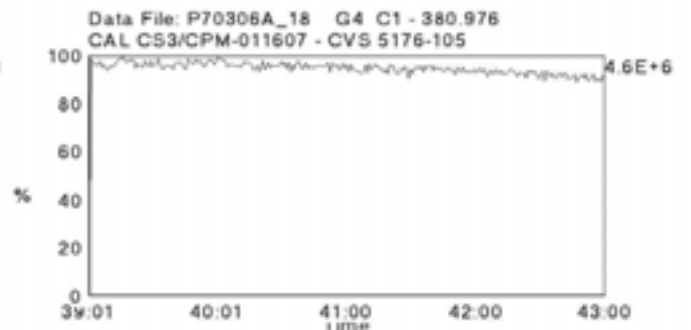
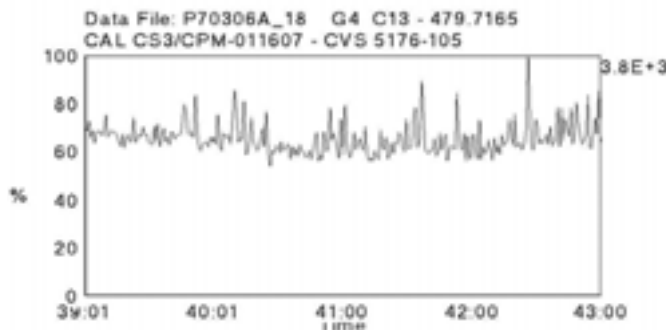
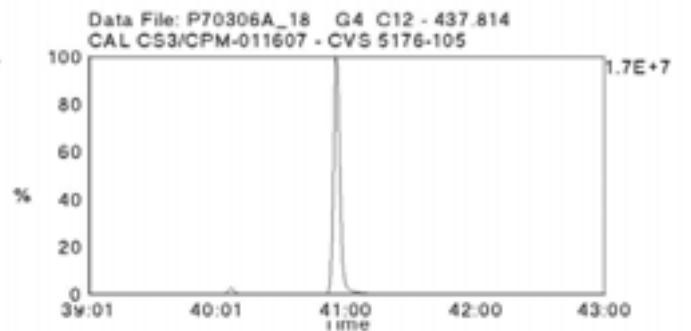
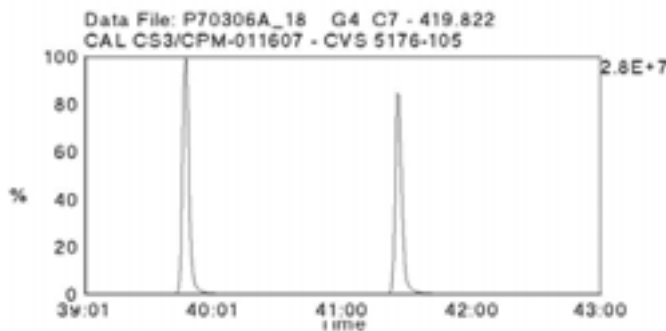
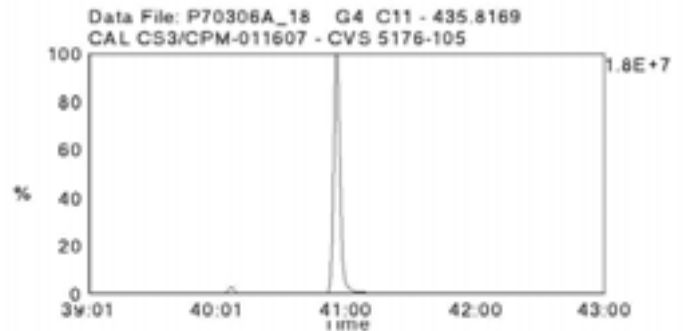
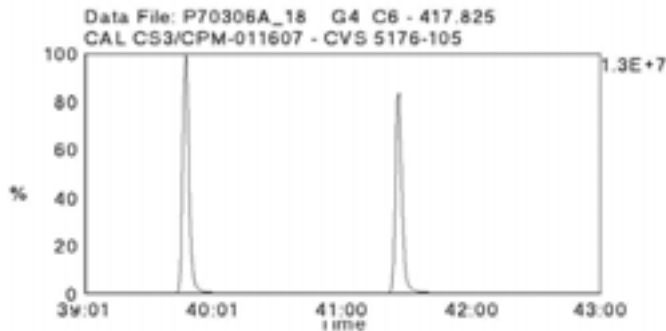
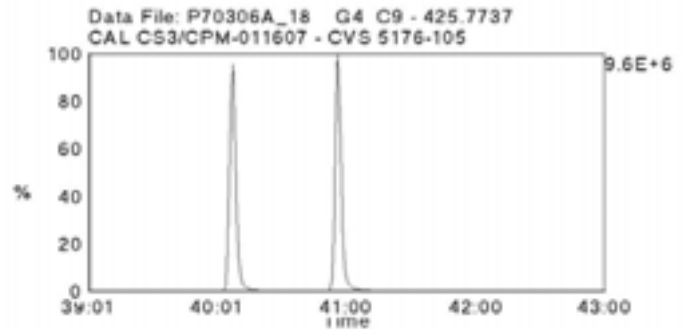
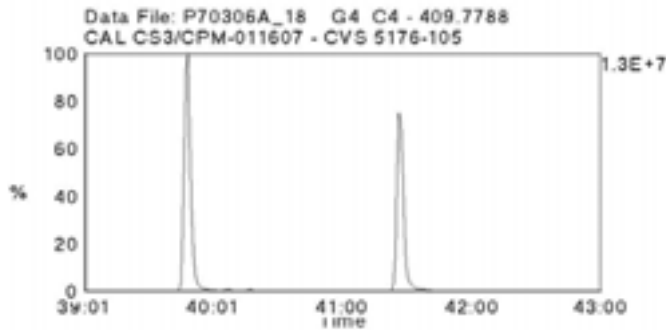
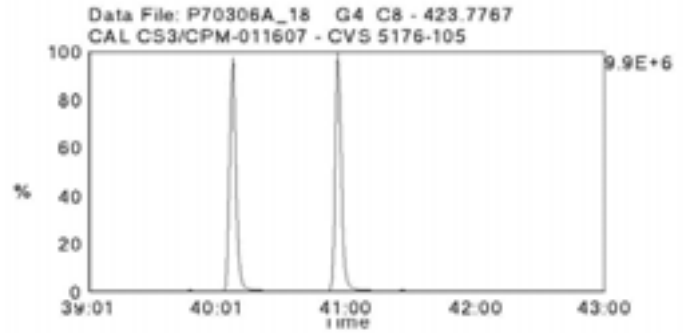
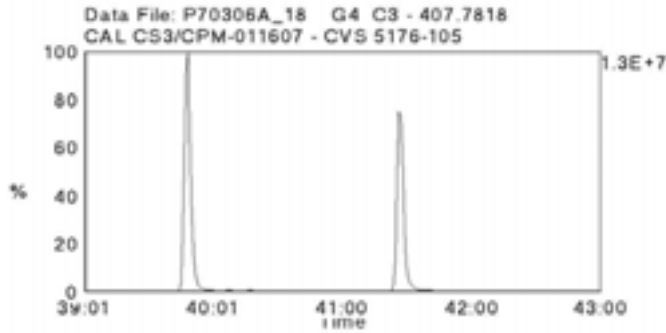
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70306A\_18

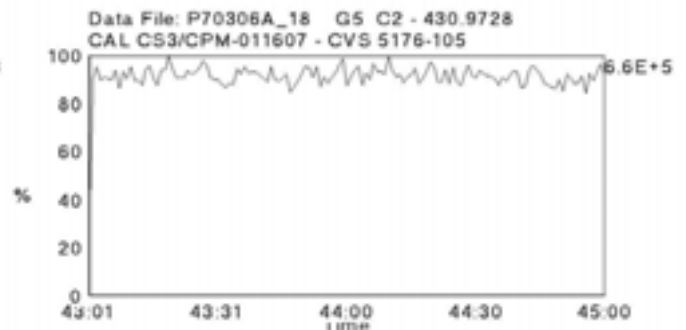
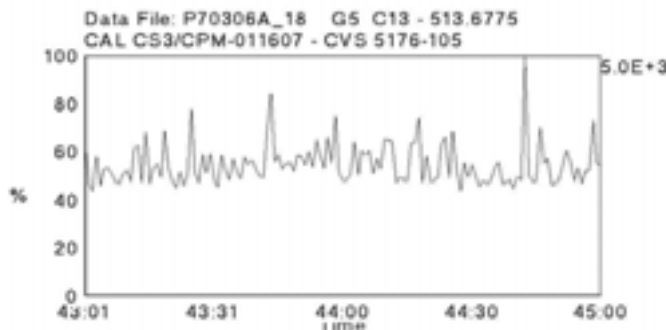
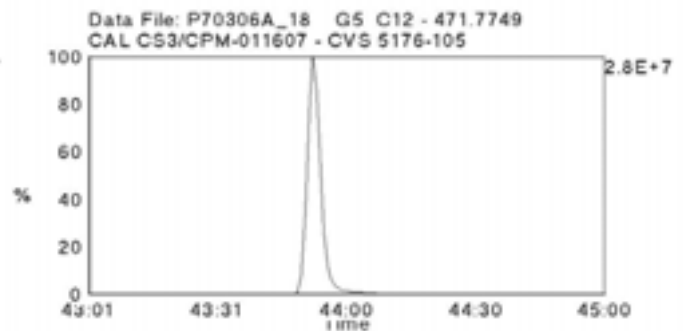
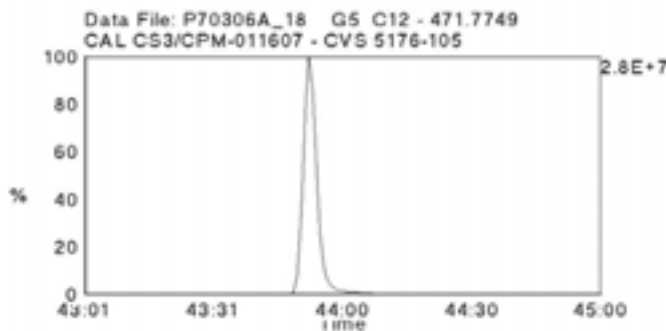
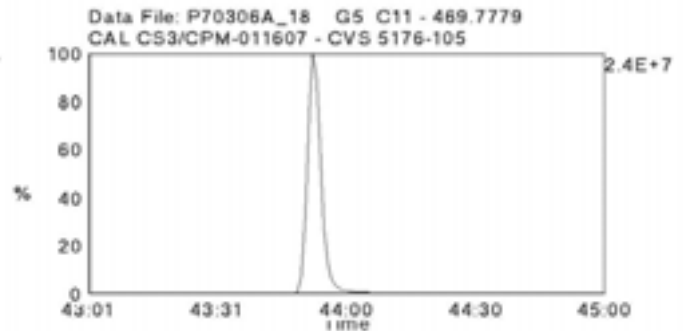
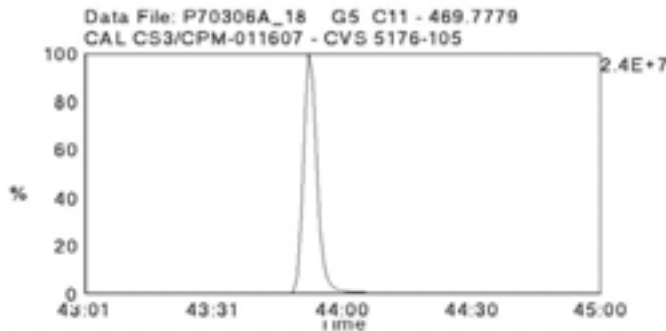
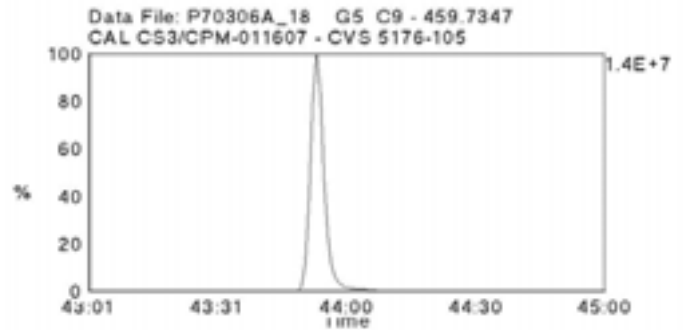
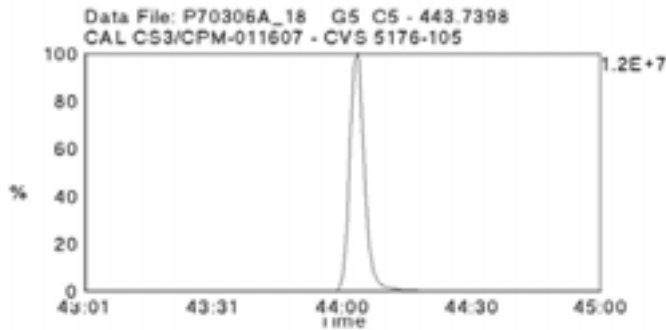
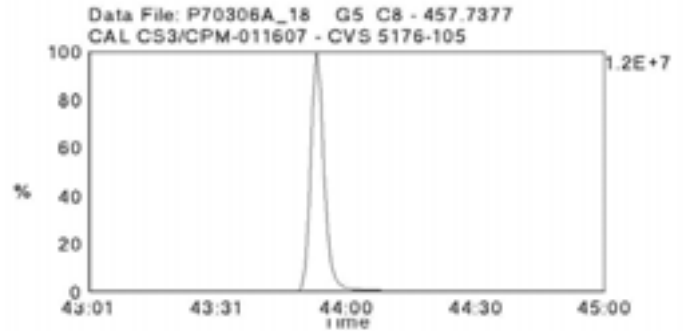
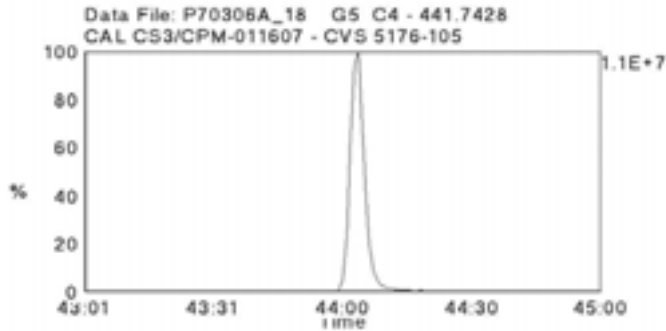
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70306B\_12

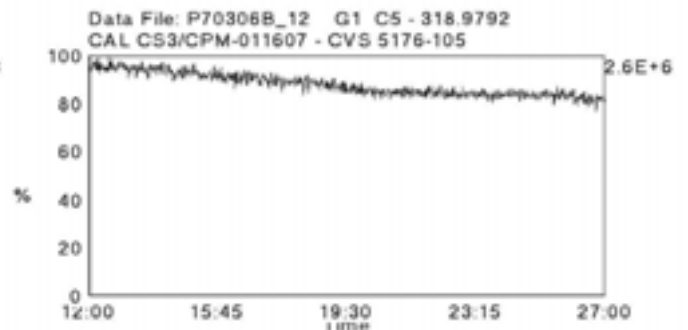
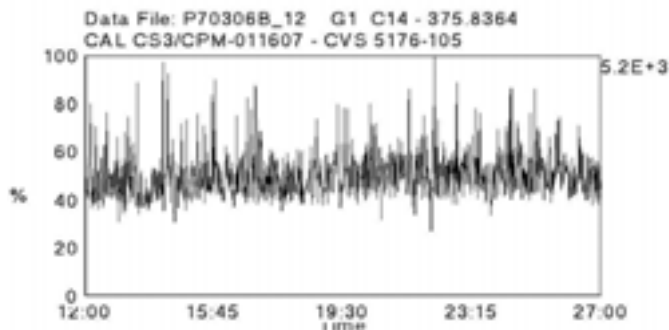
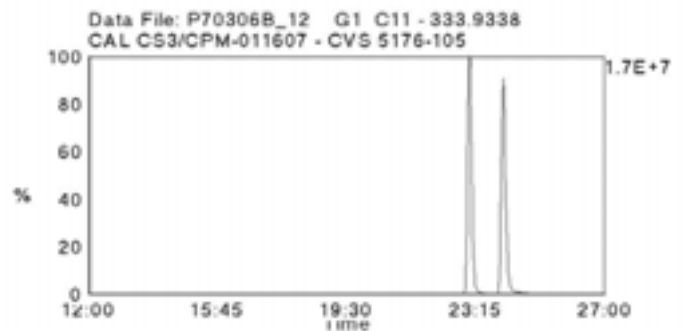
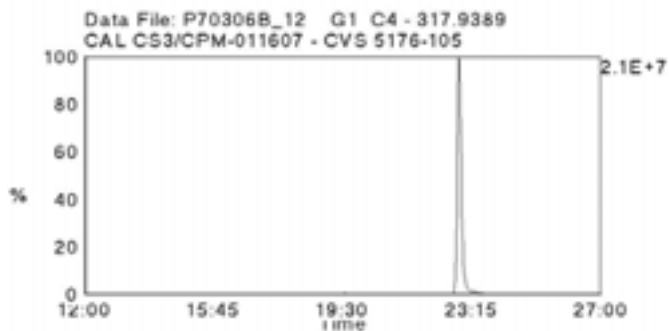
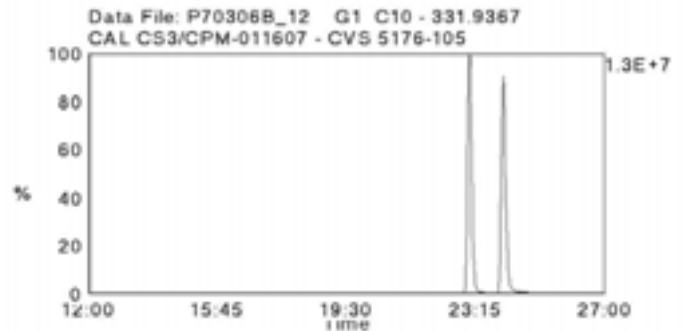
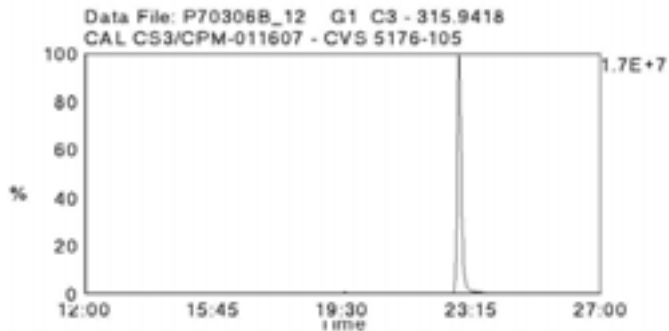
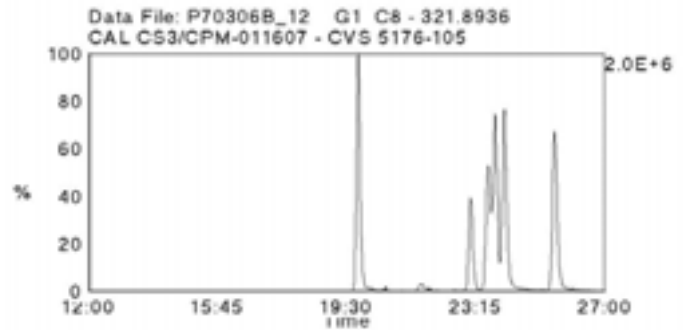
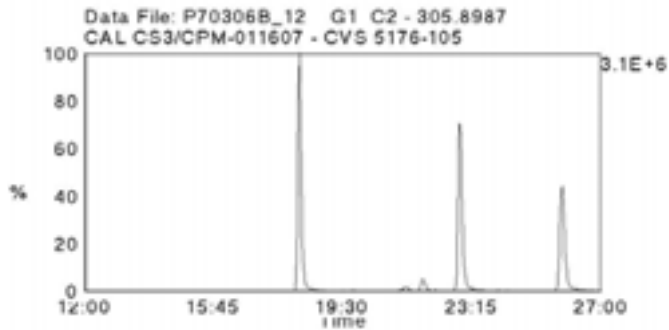
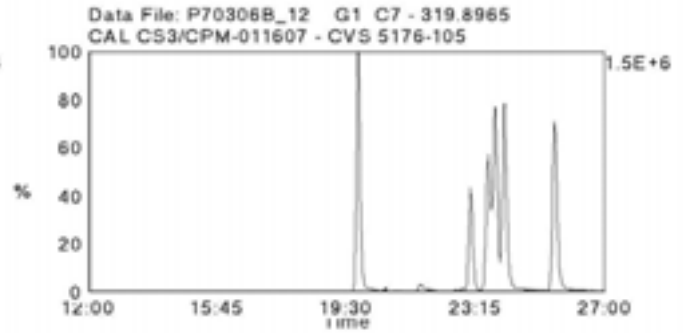
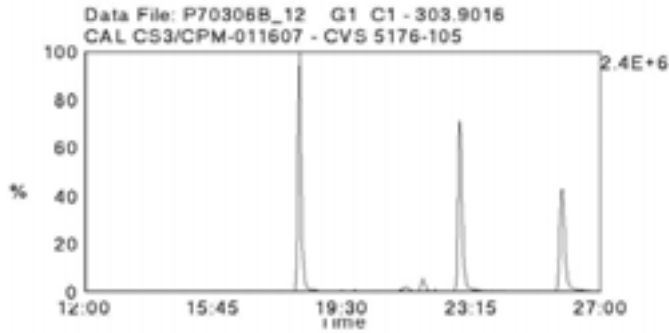
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70306B\_12

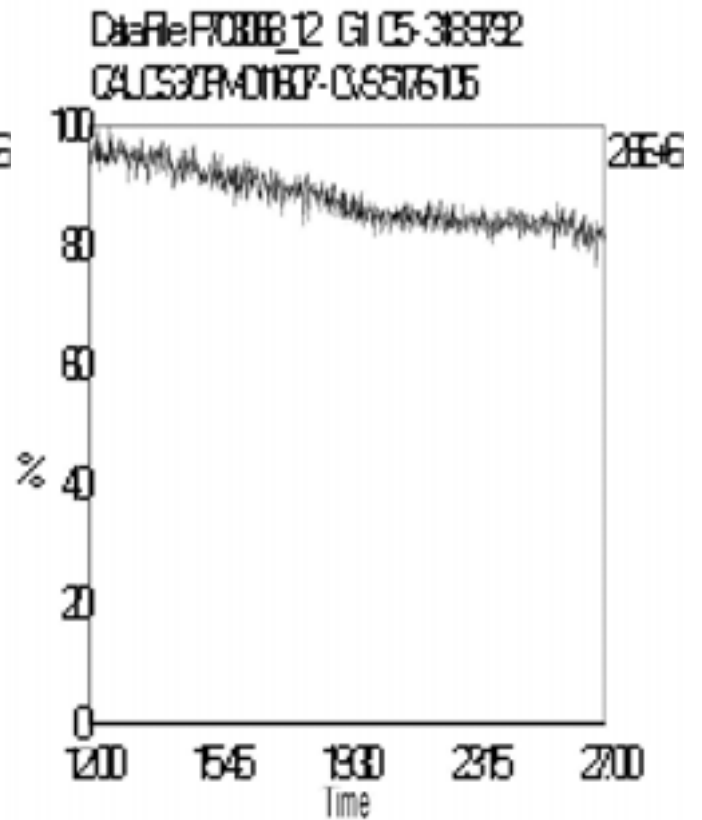
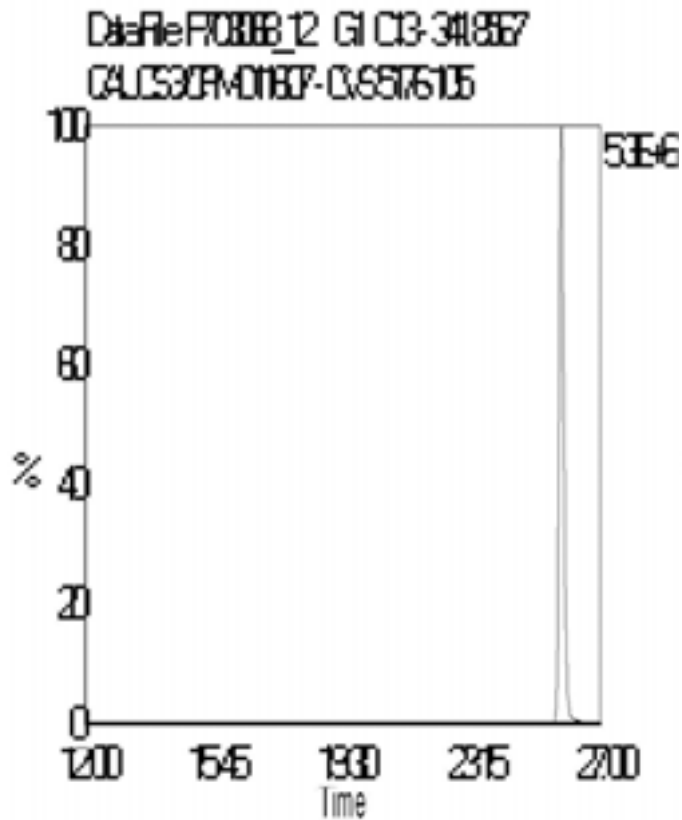
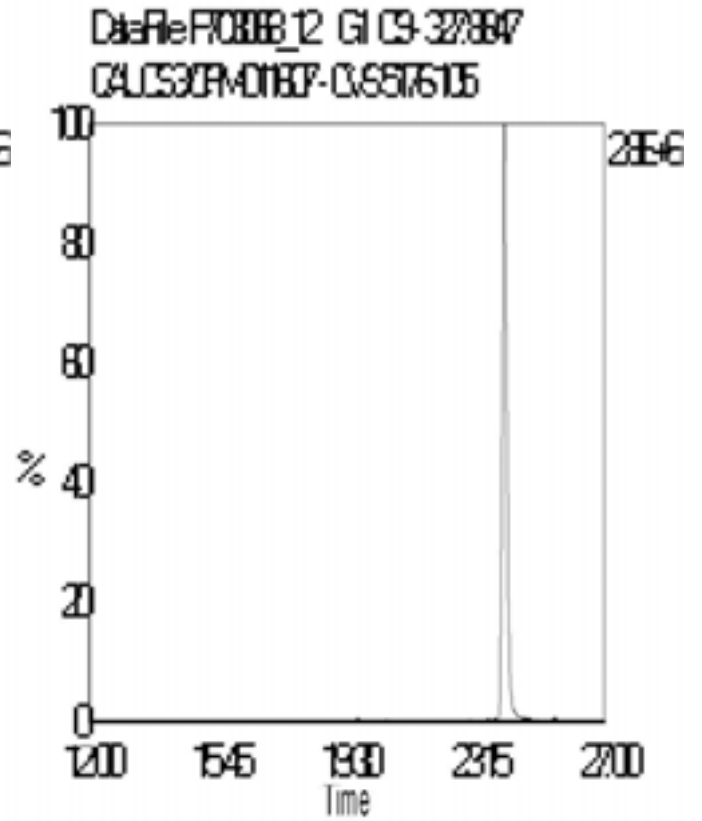
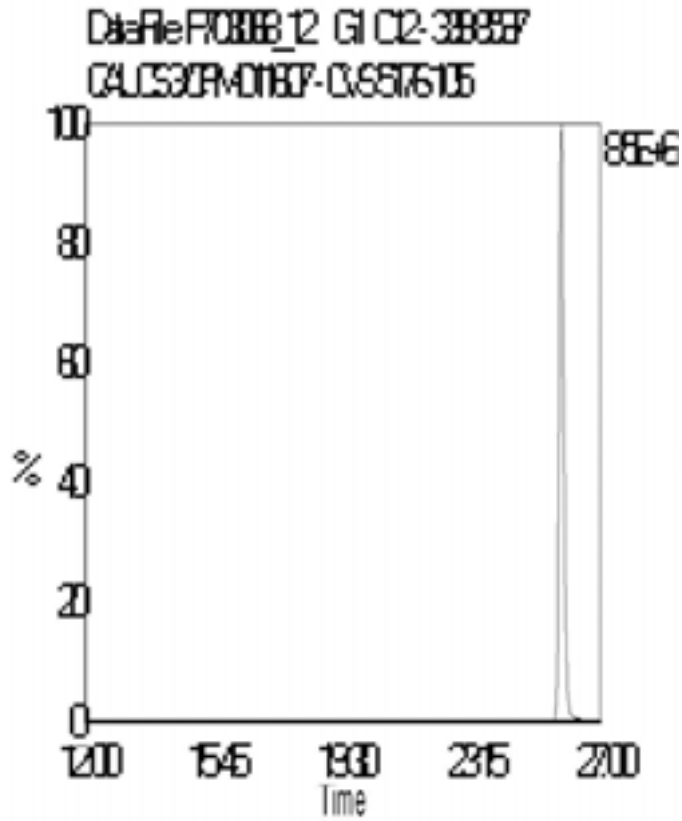
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)





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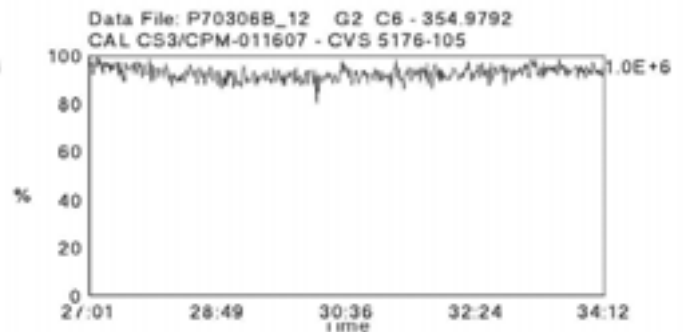
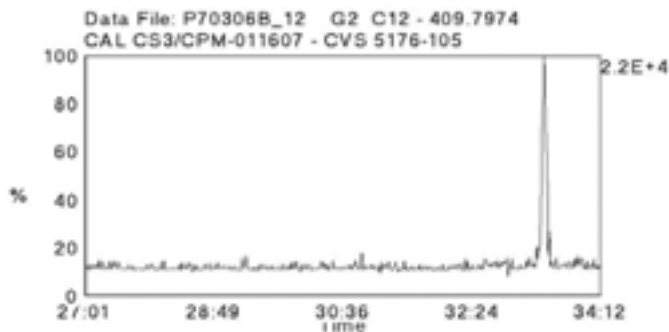
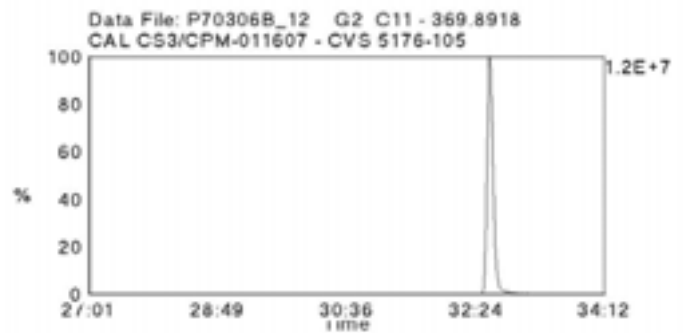
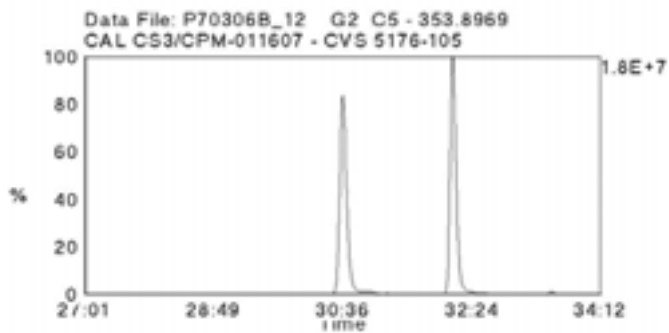
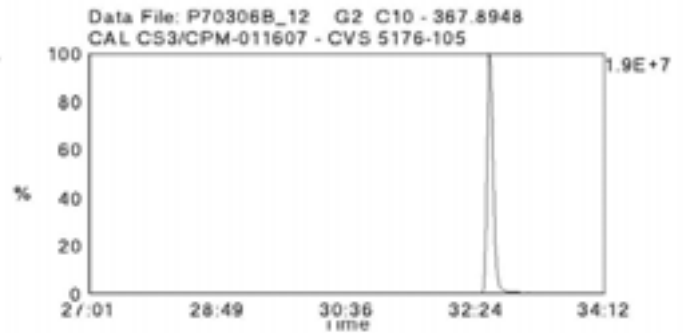
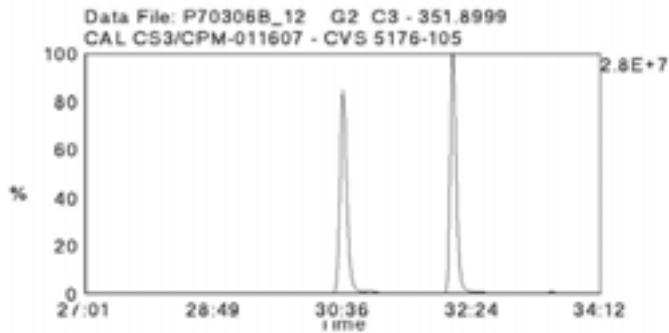
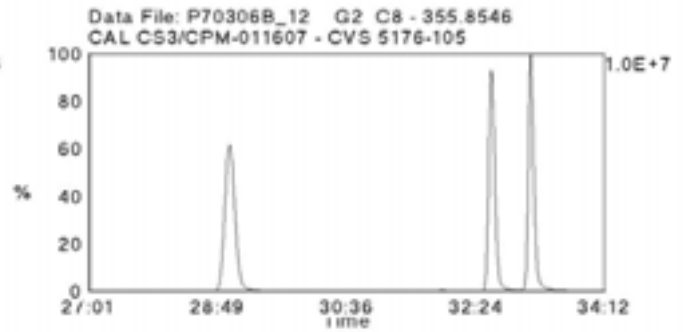
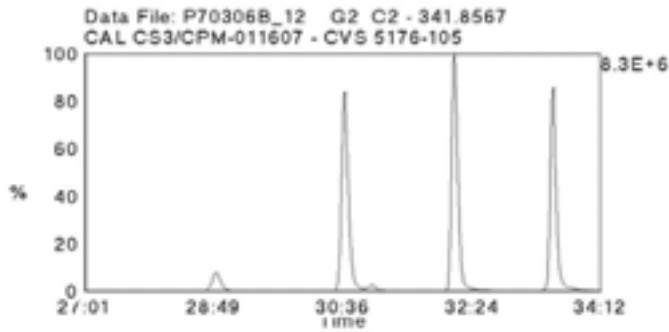
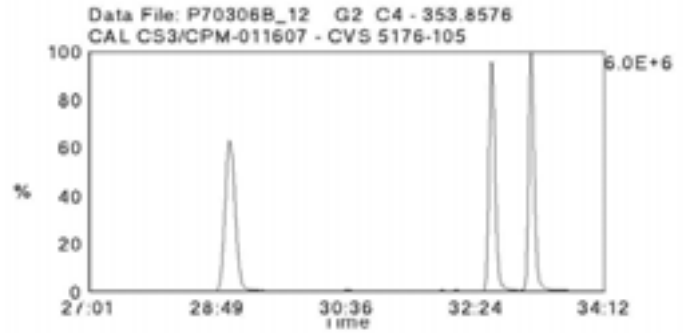
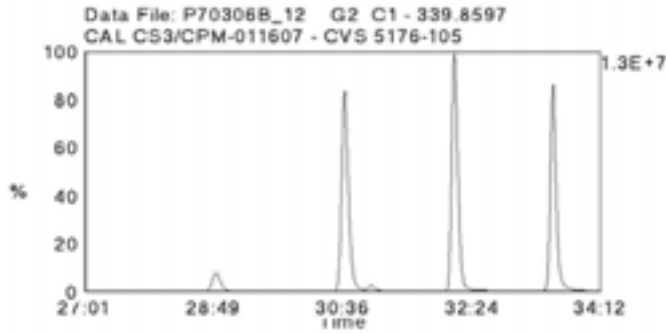
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70306B\_12

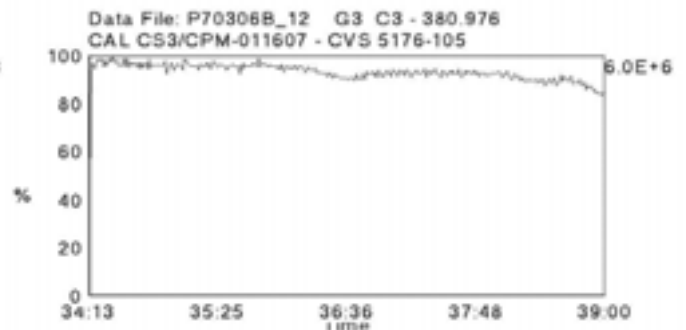
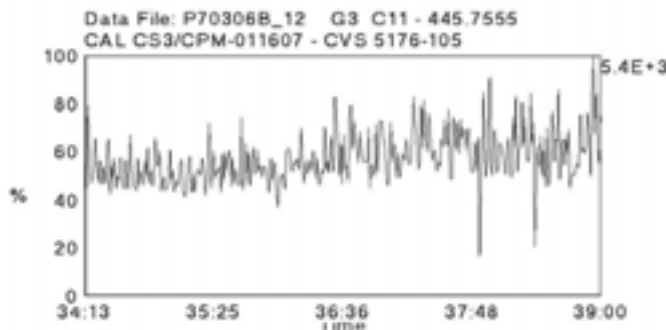
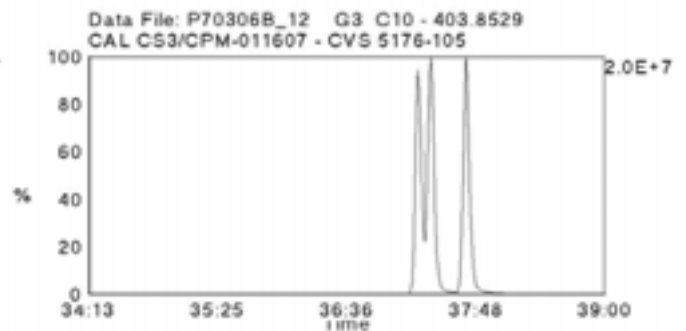
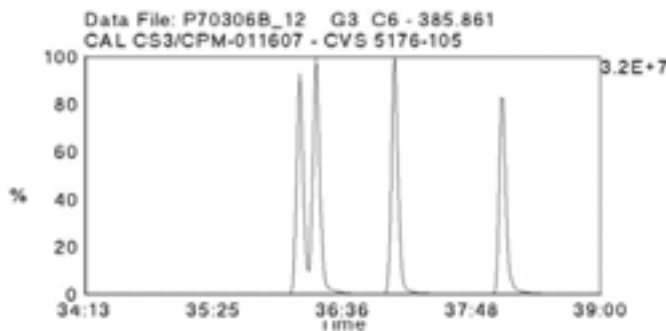
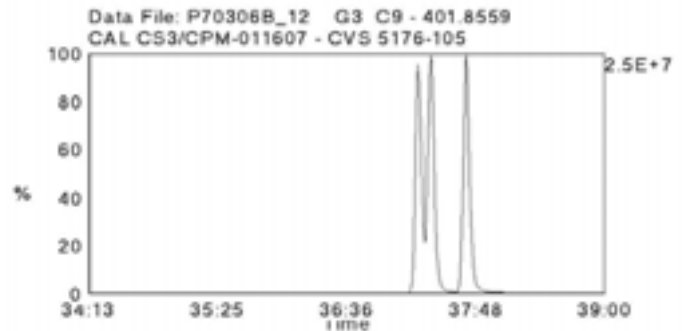
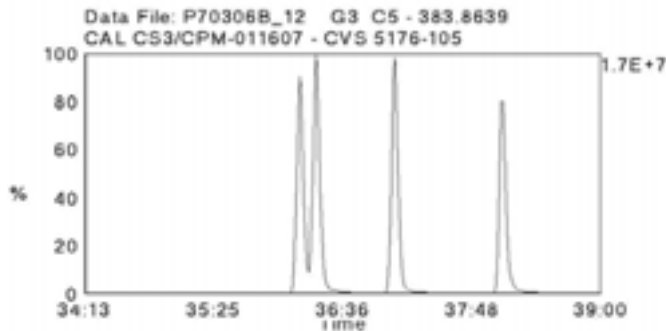
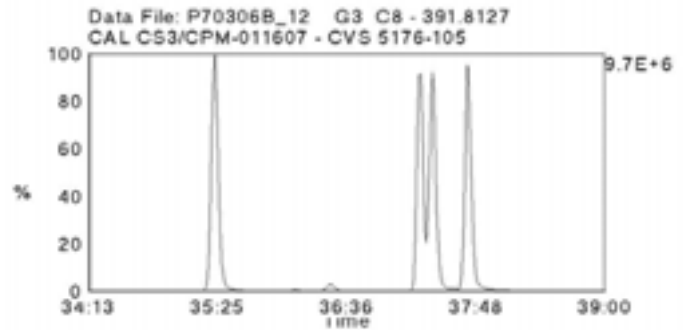
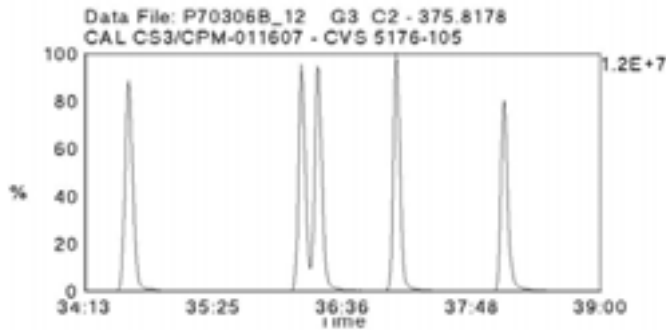
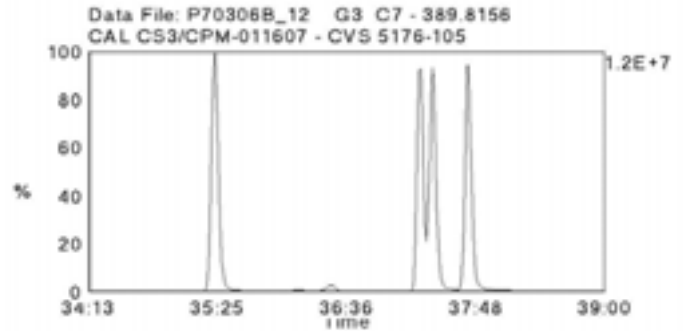
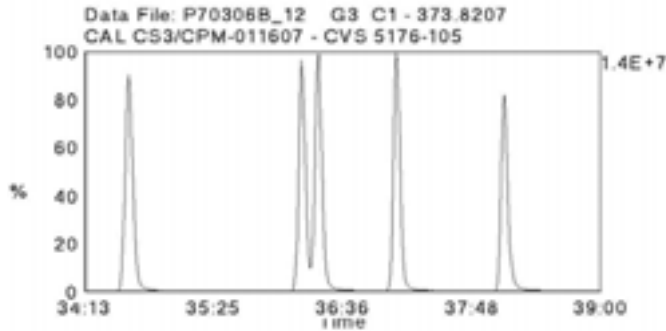
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70306B\_12

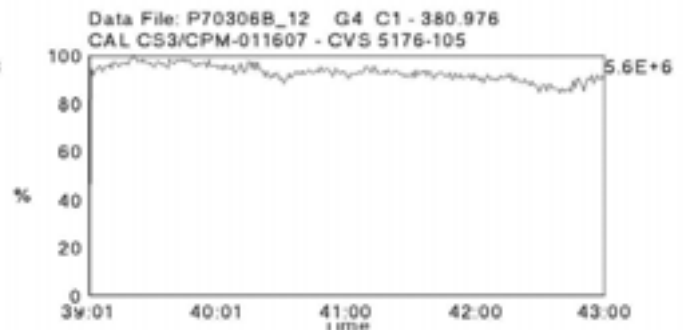
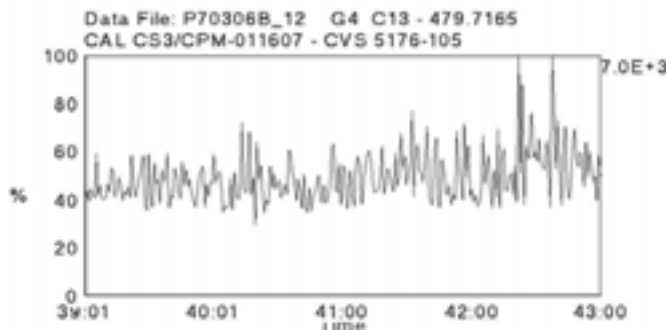
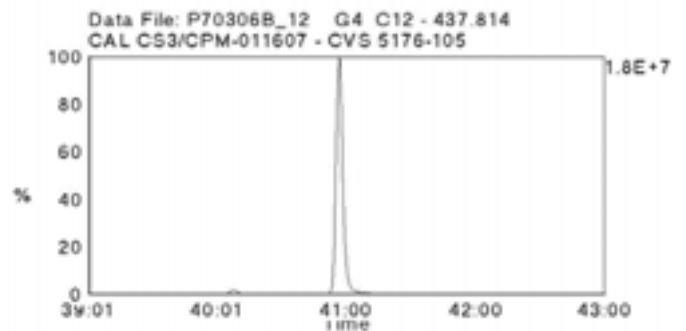
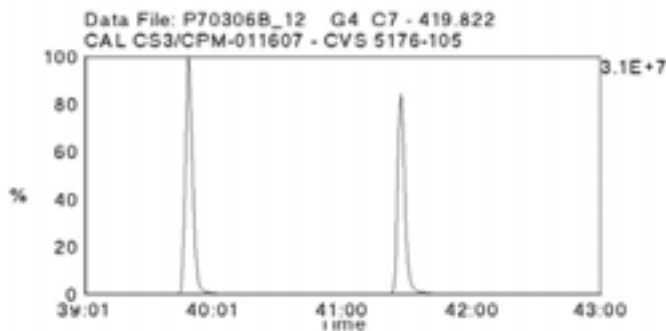
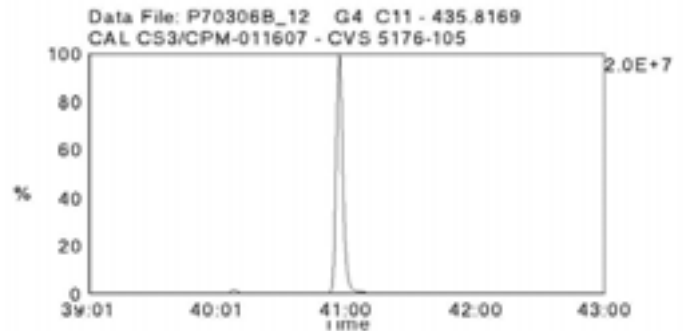
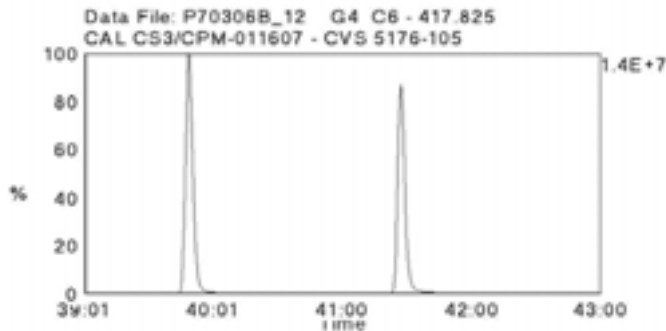
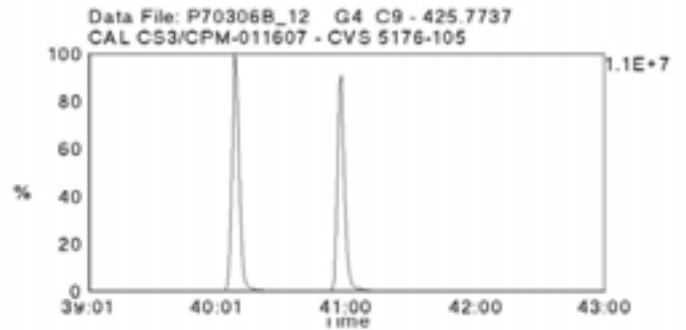
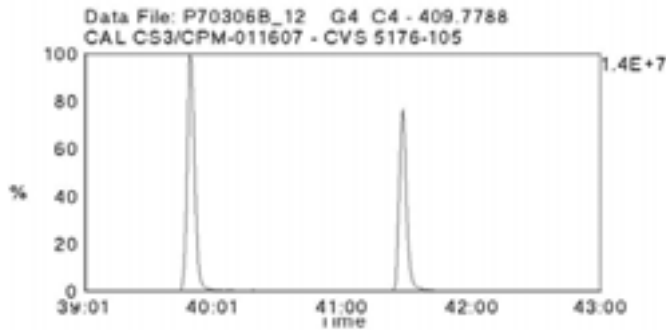
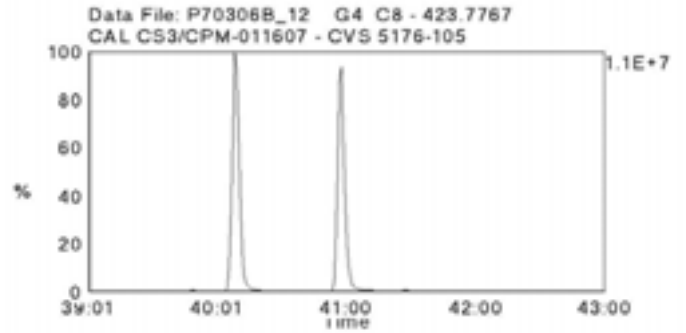
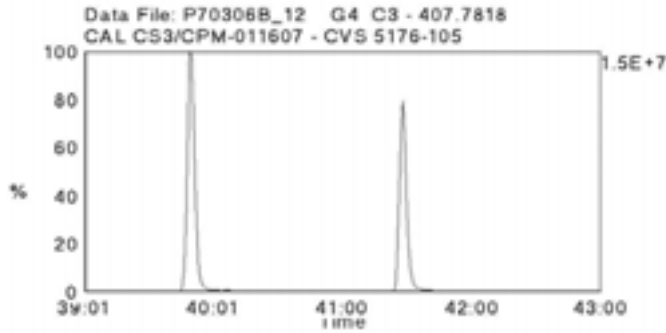
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70306B\_12

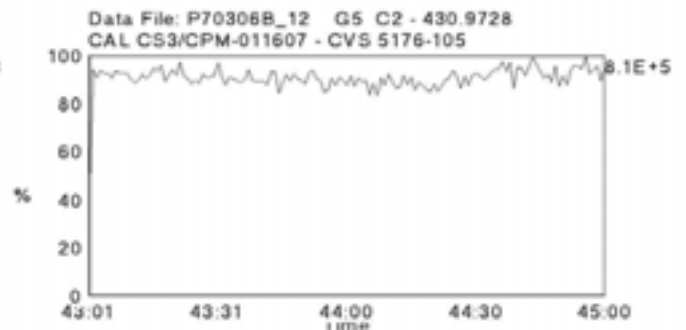
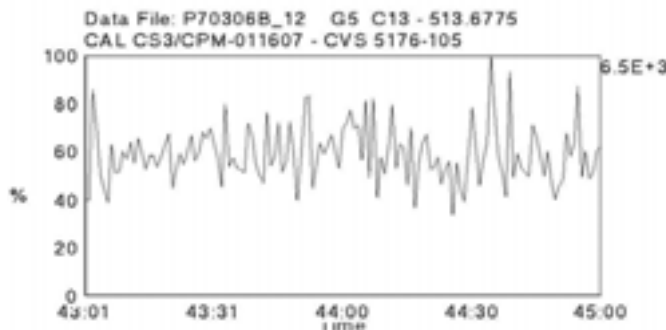
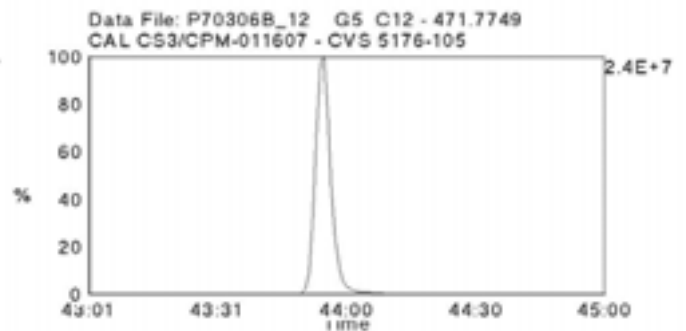
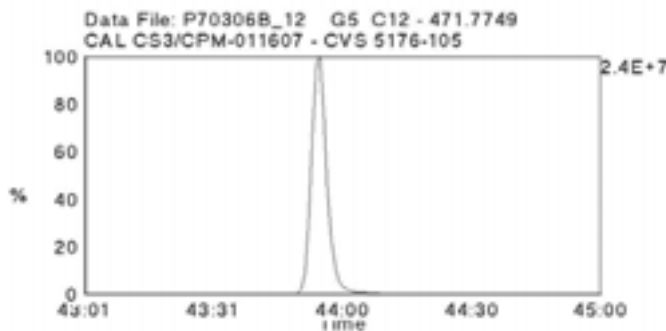
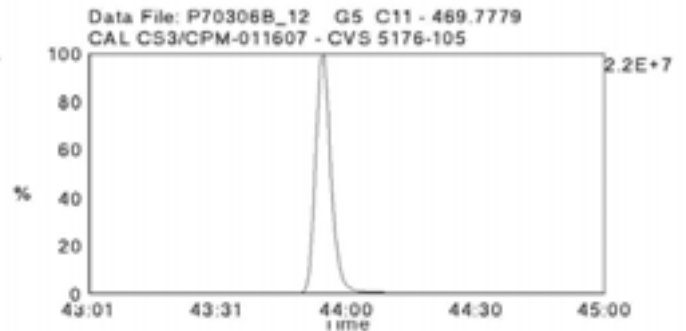
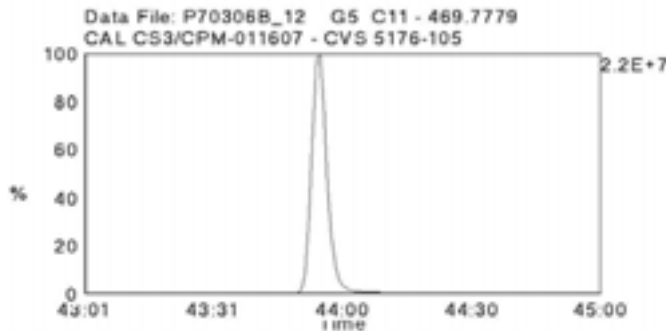
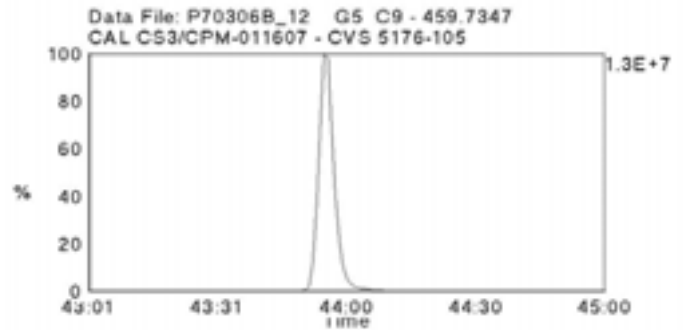
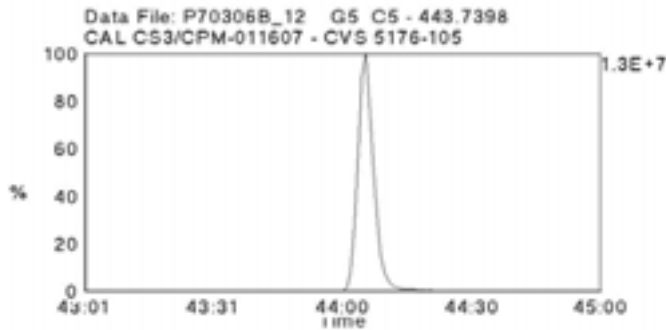
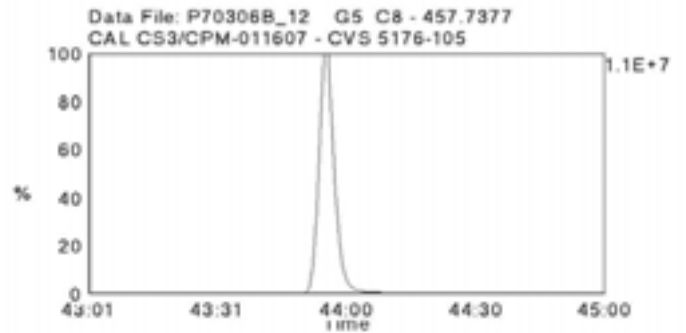
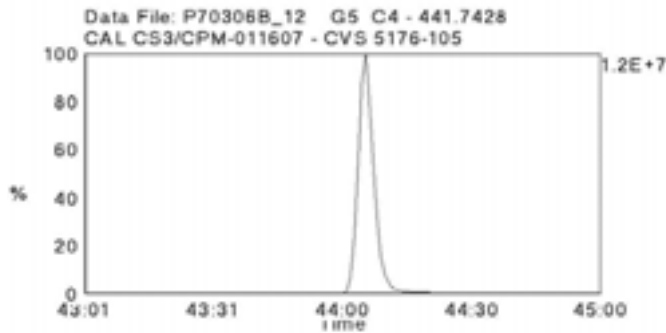
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70307A\_02

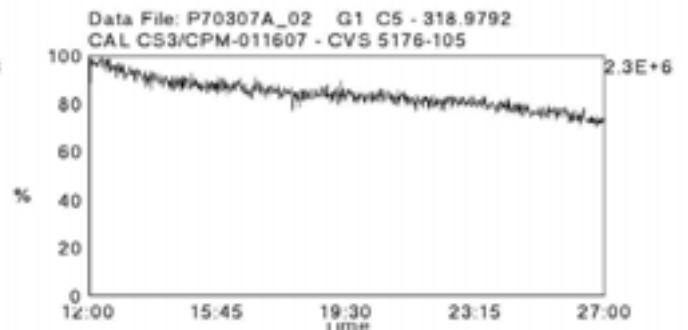
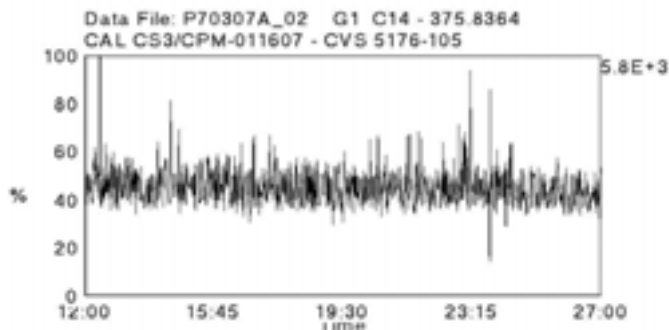
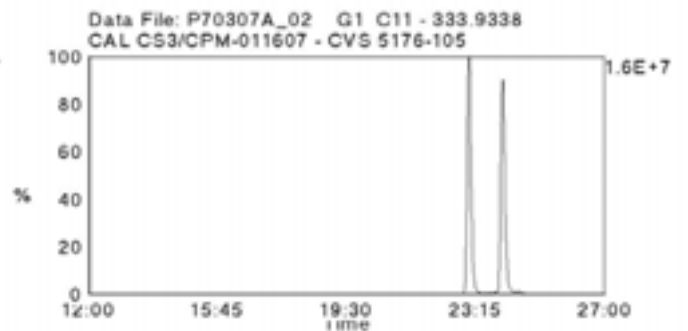
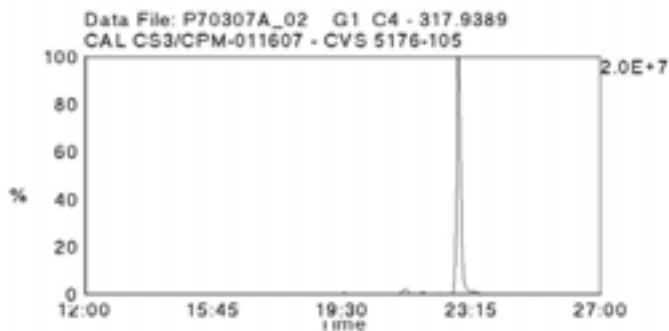
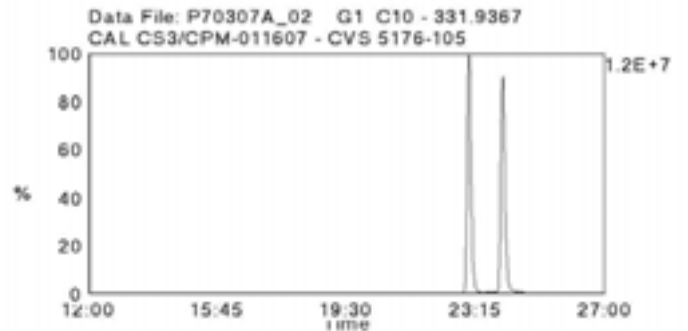
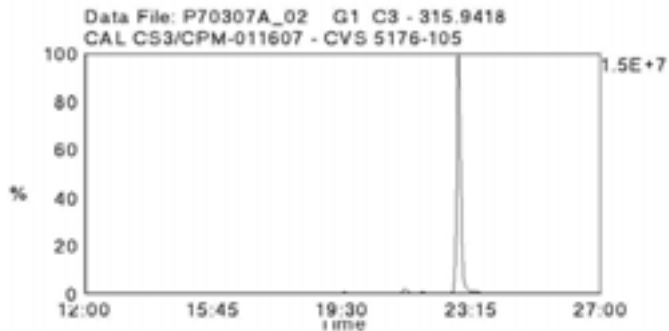
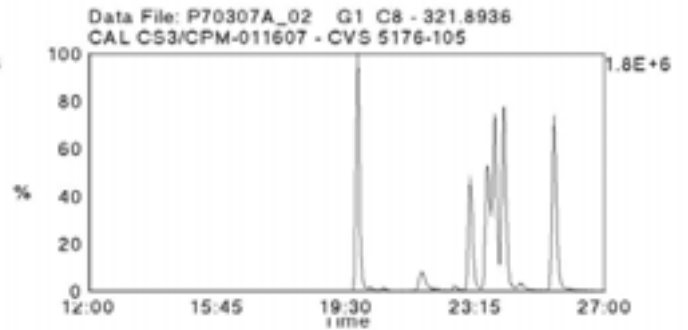
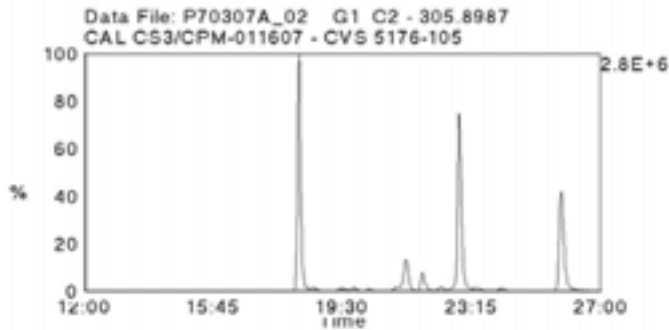
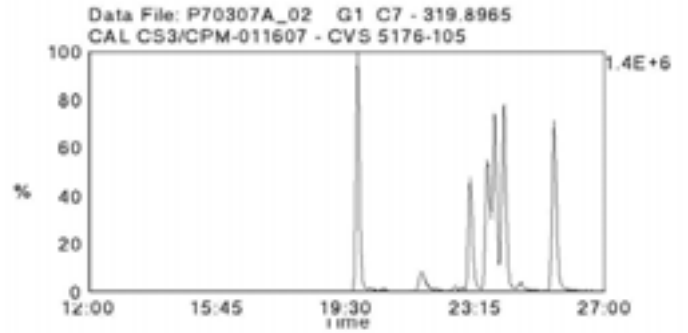
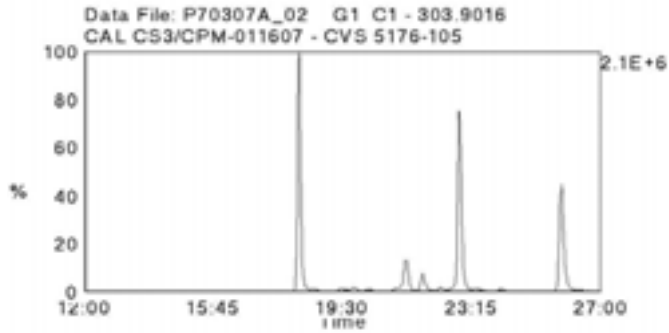
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70307A\_02

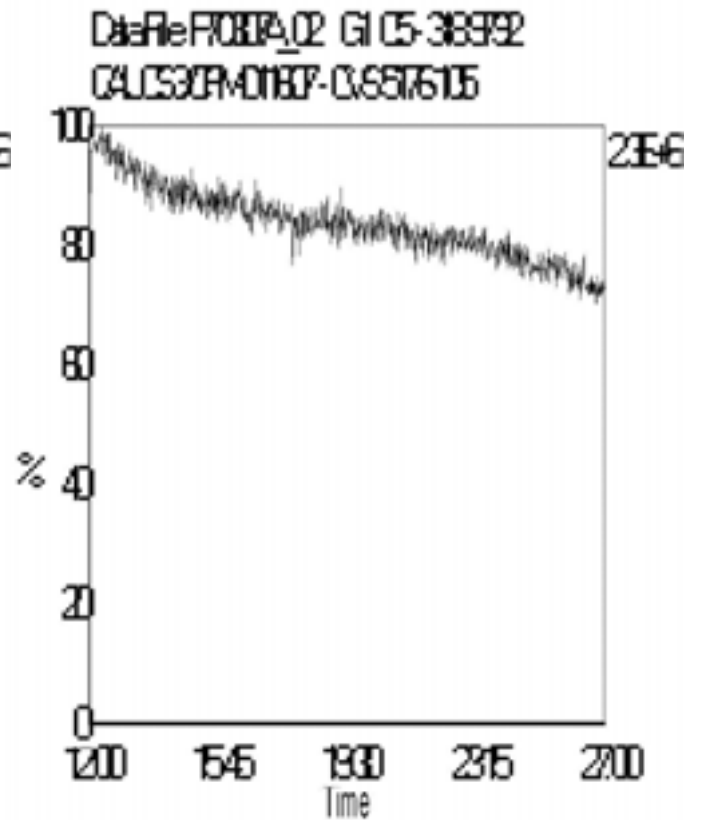
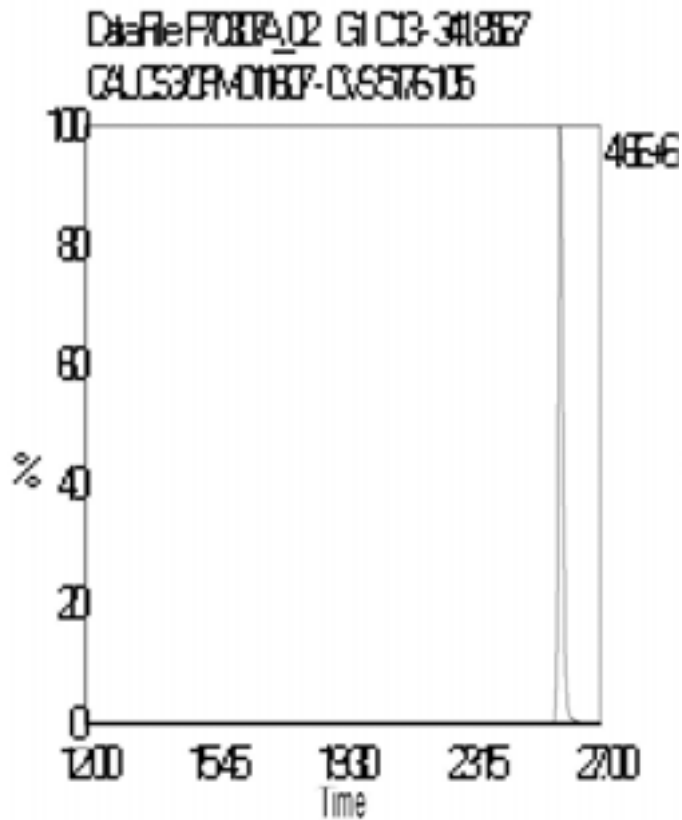
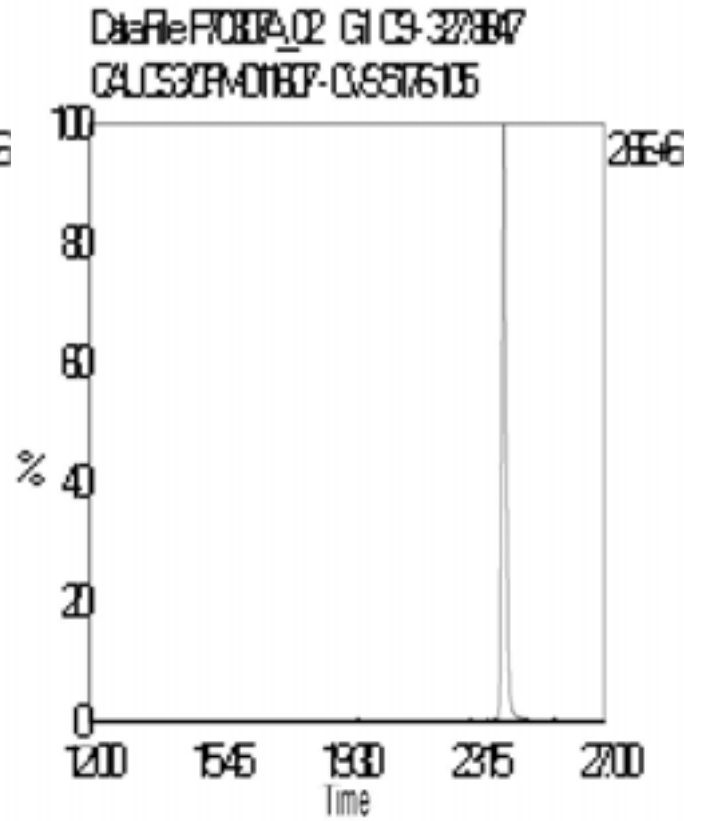
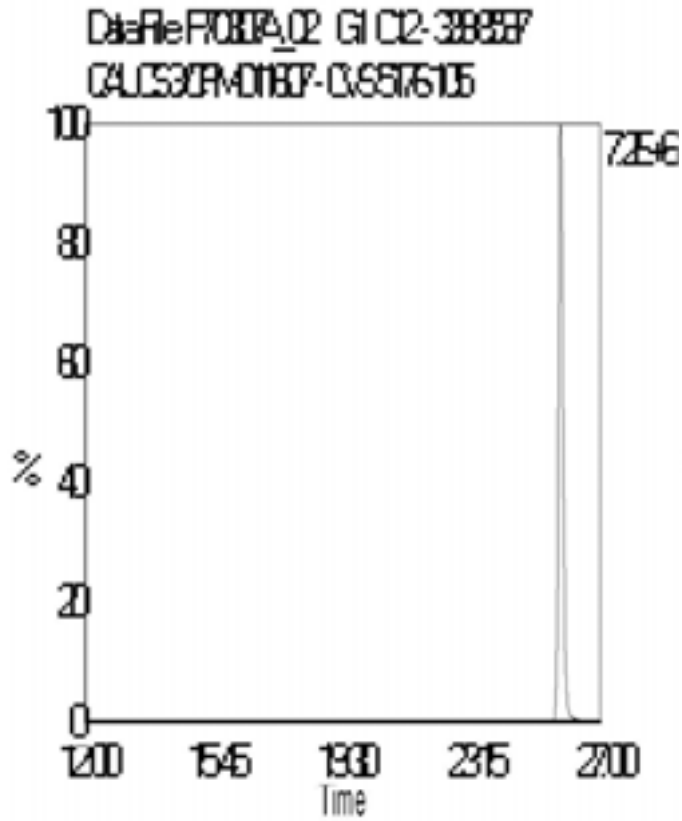
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70307A\_02

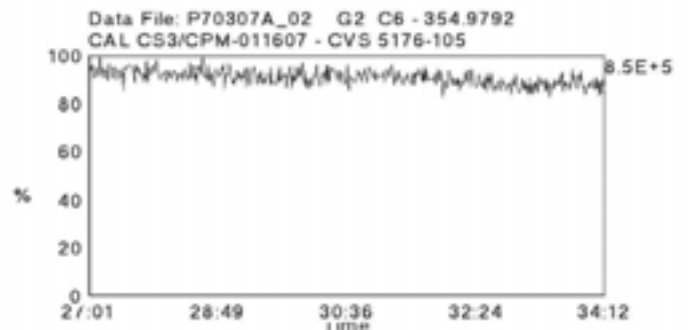
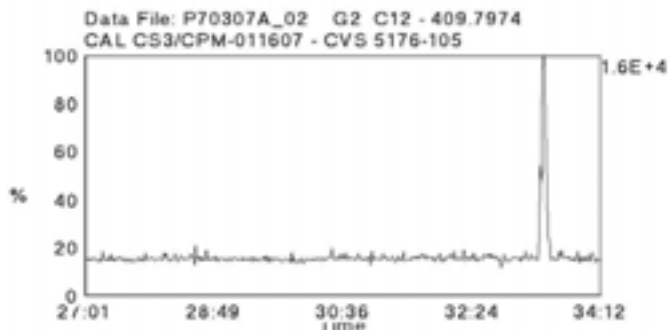
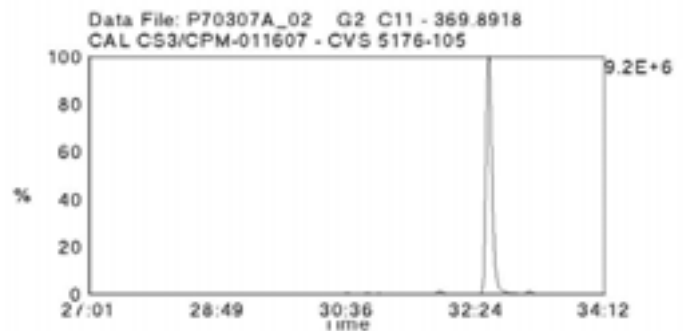
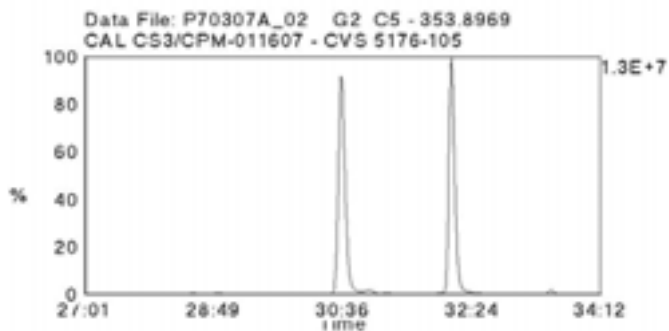
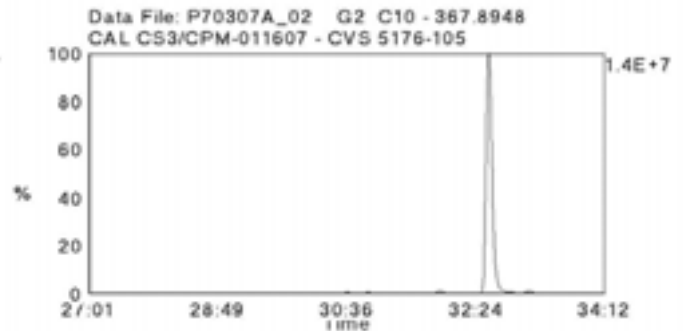
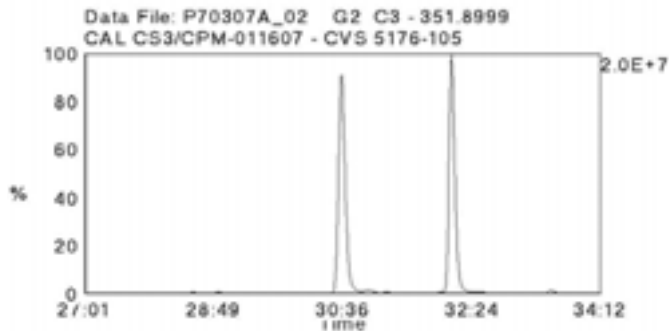
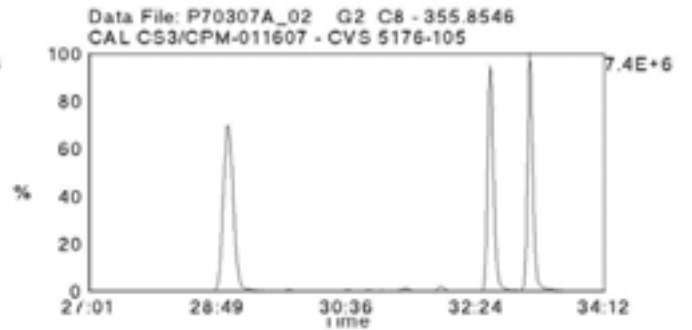
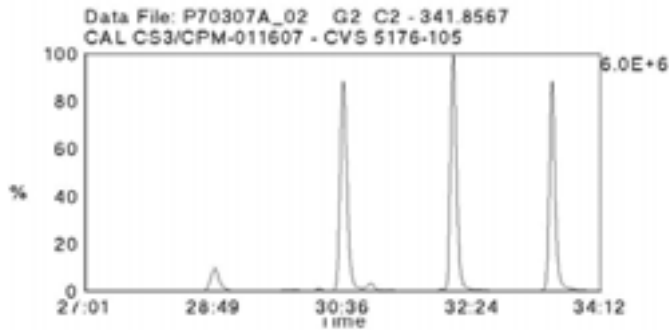
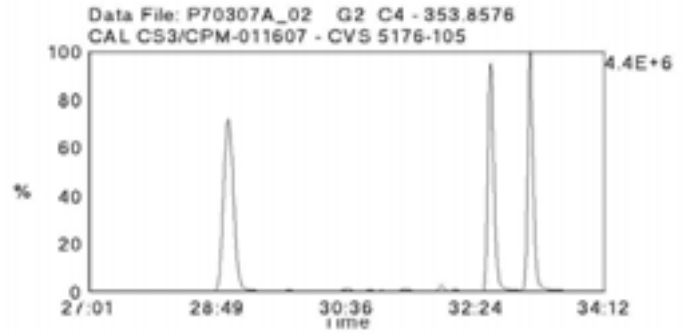
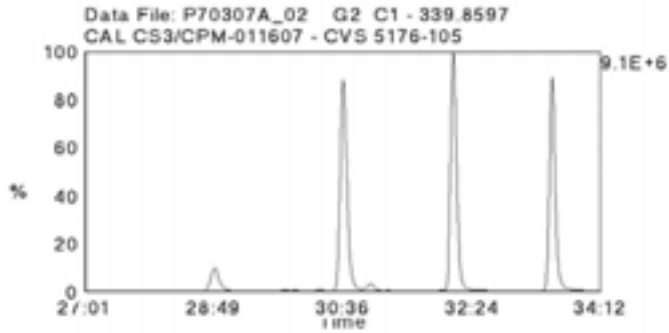
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70307A\_02

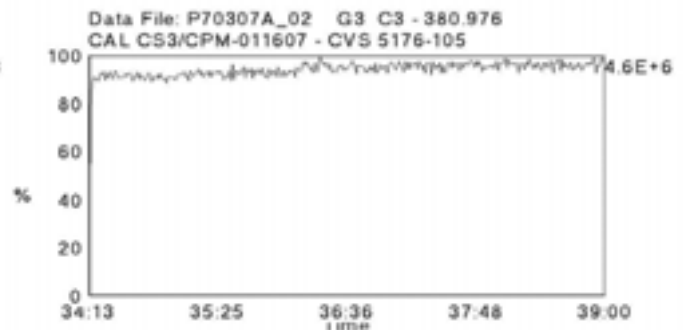
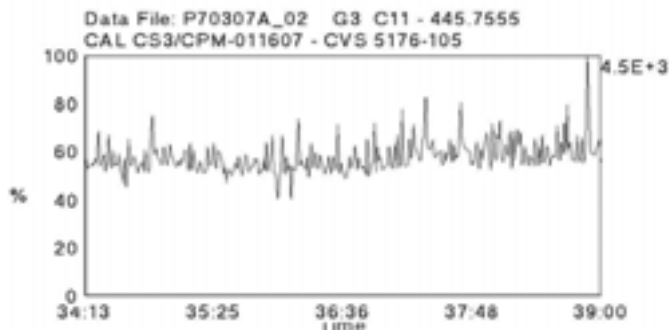
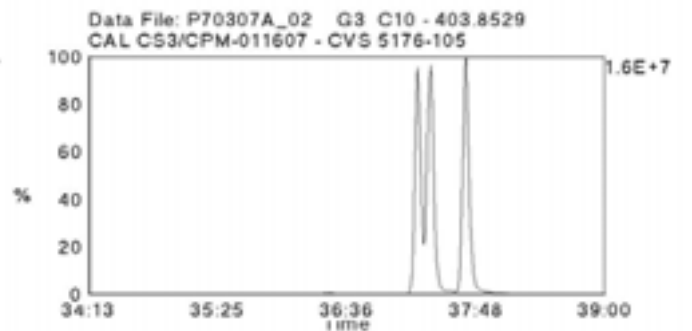
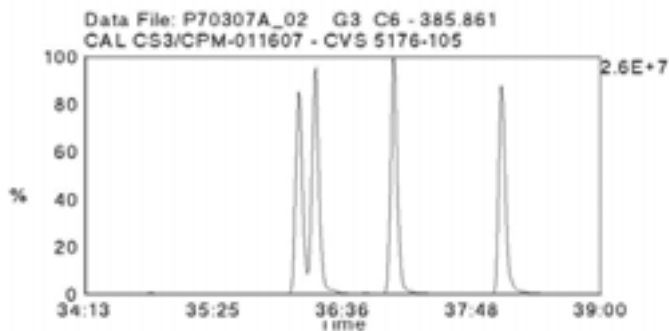
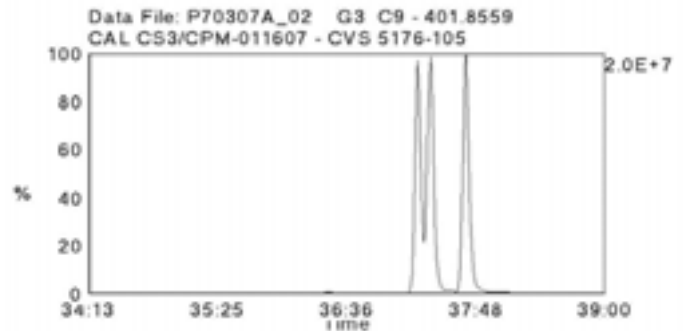
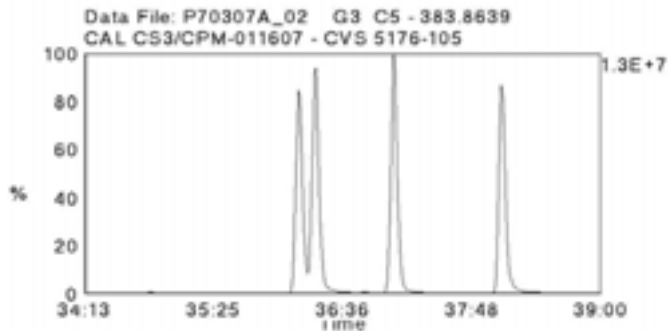
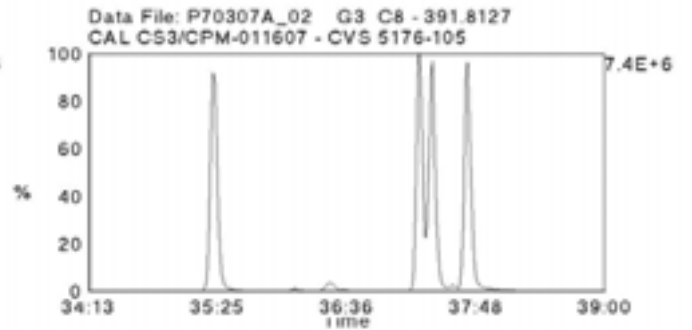
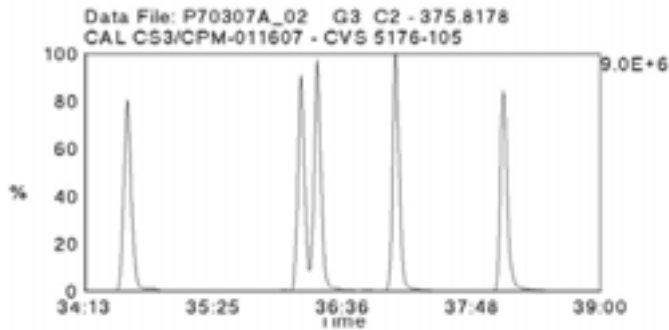
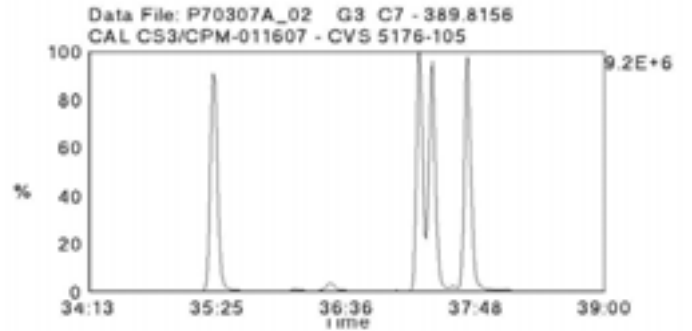
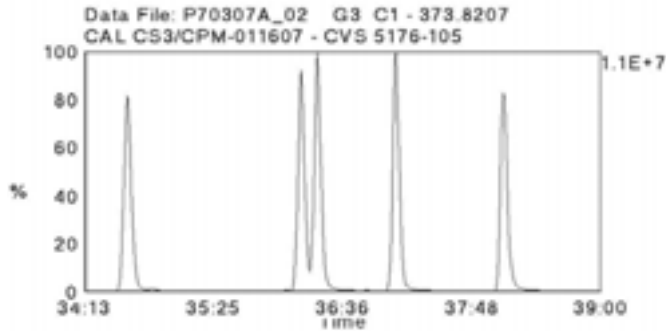
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)





Data File Name: P70307A\_02

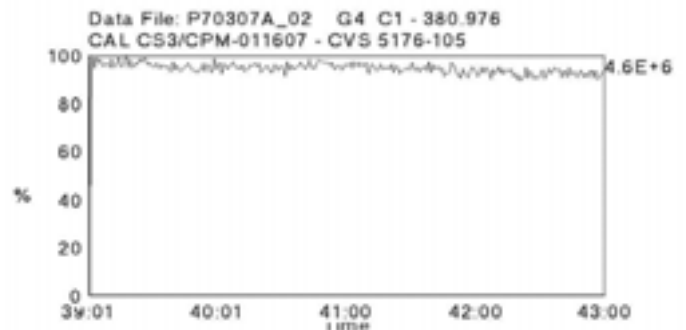
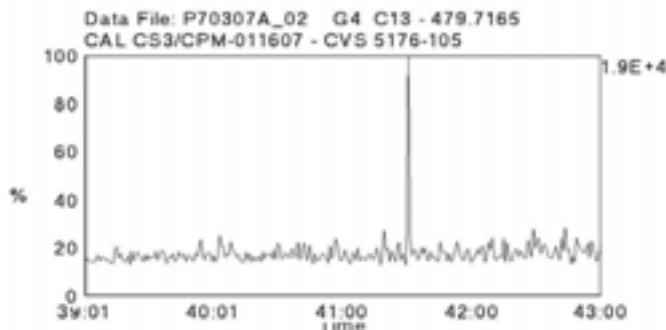
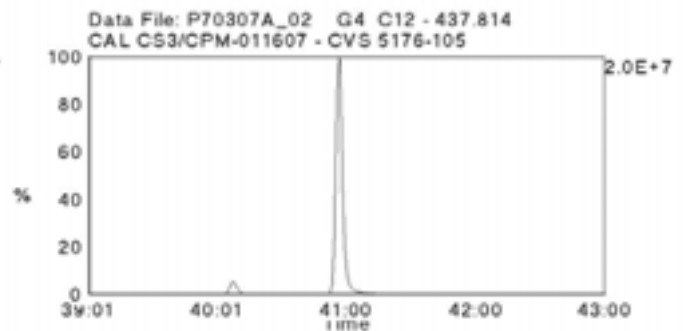
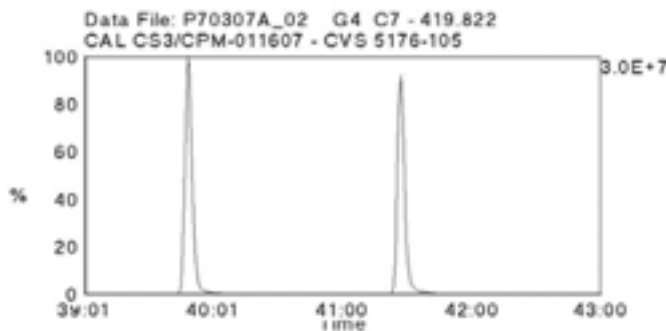
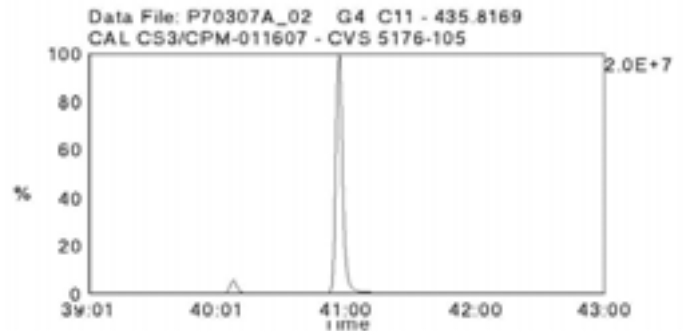
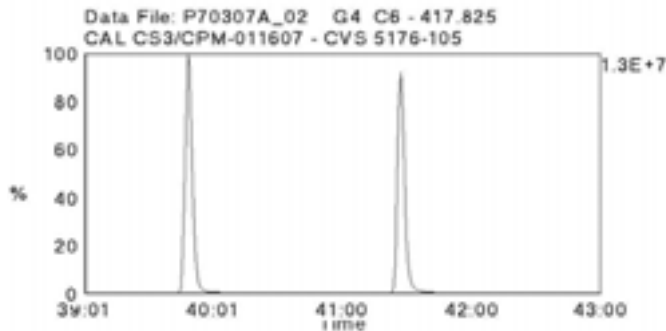
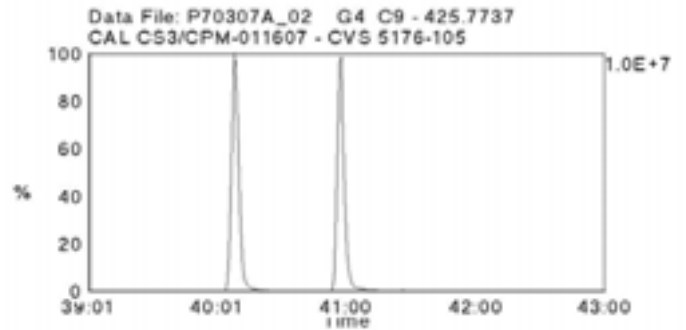
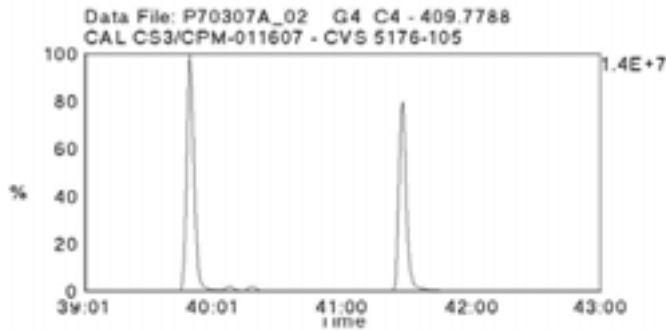
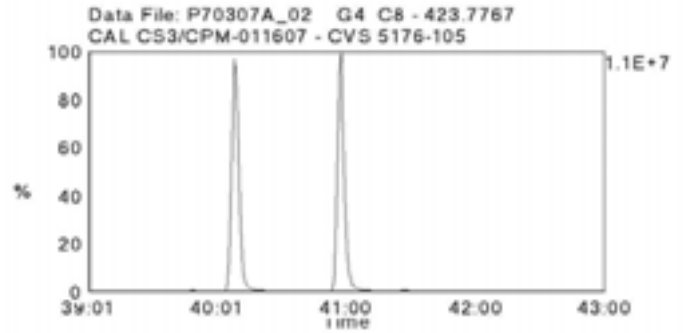
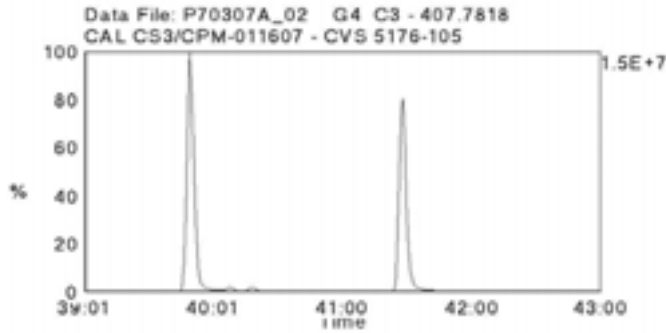
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



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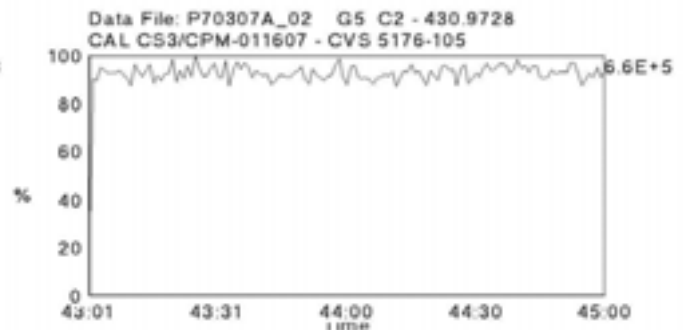
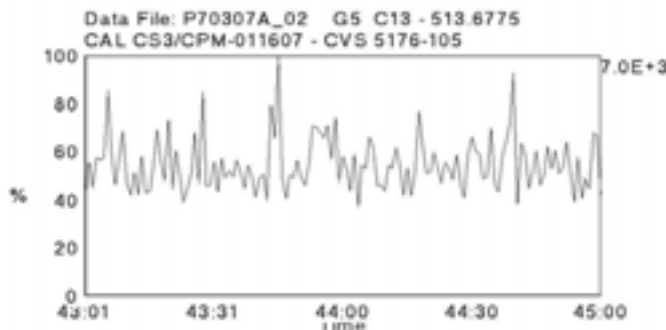
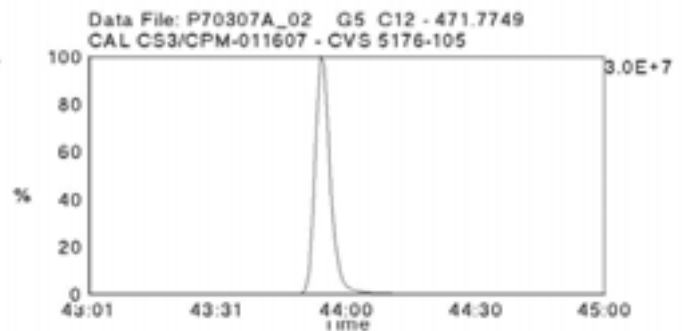
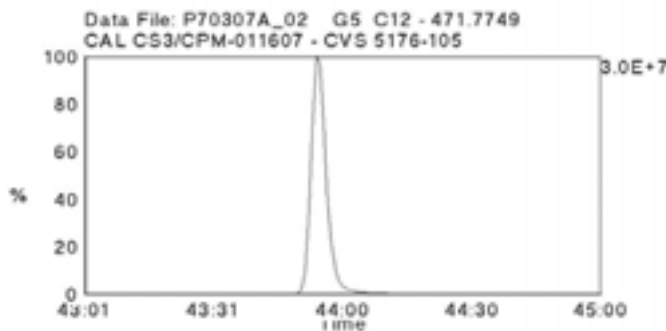
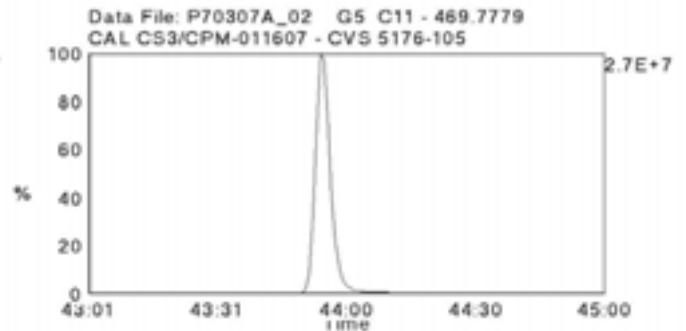
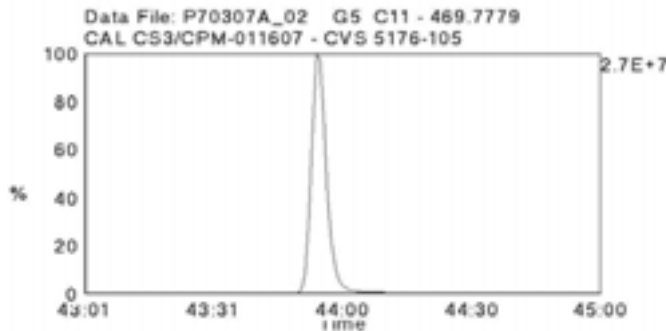
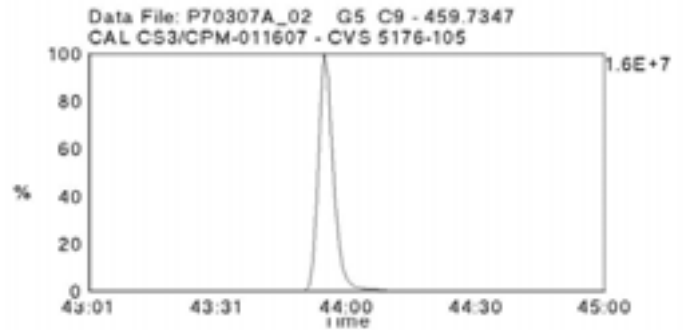
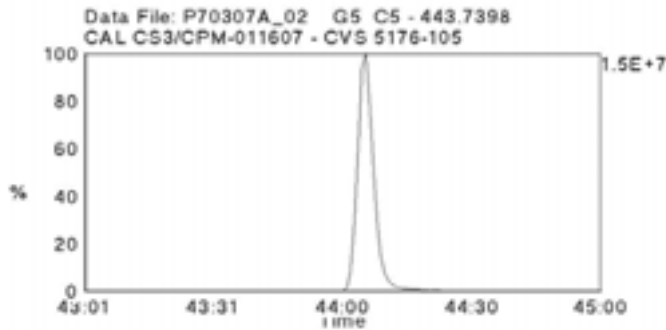
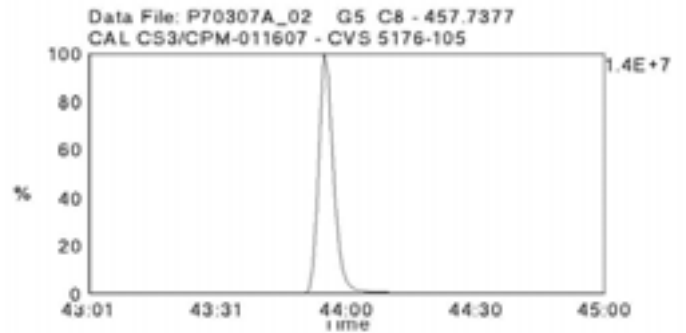
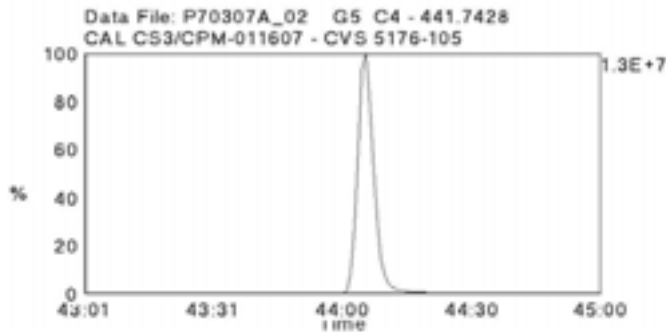
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70307A\_07

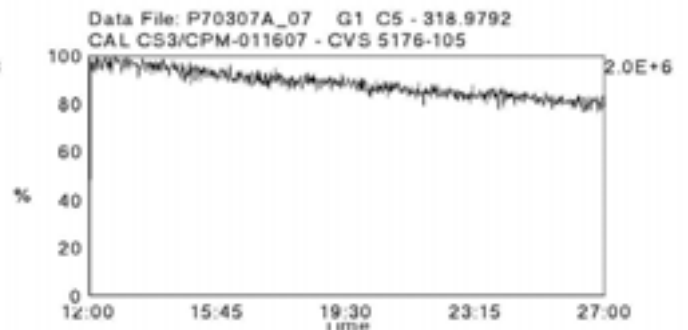
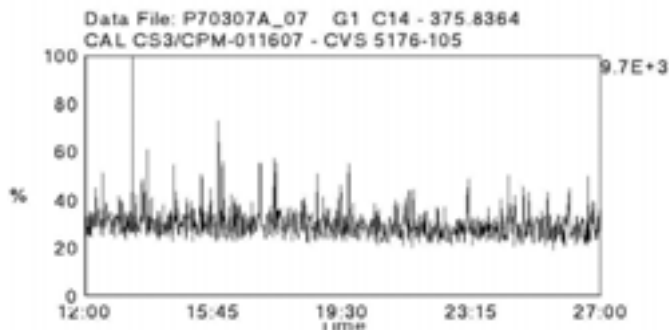
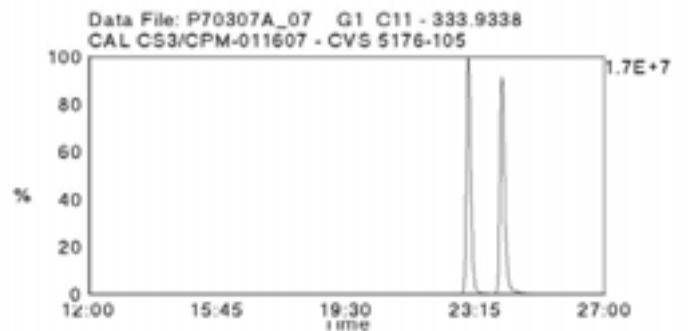
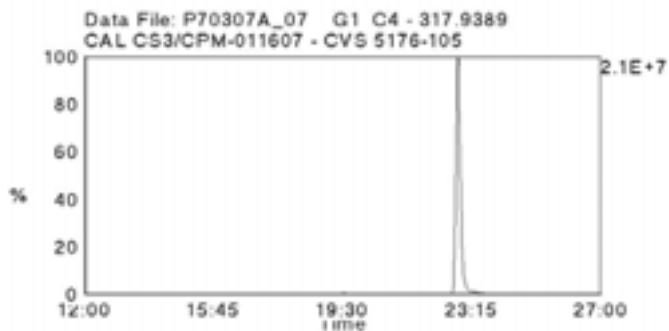
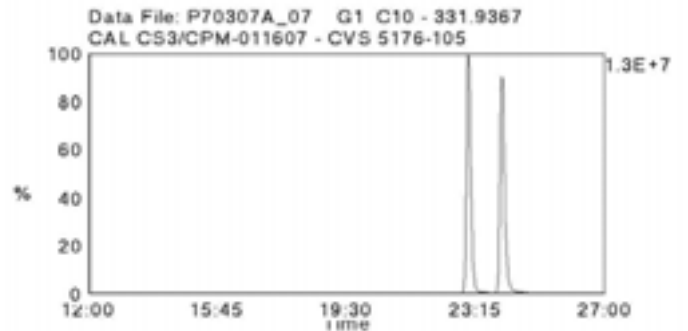
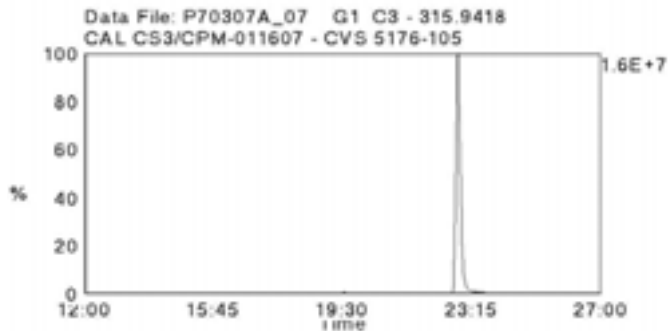
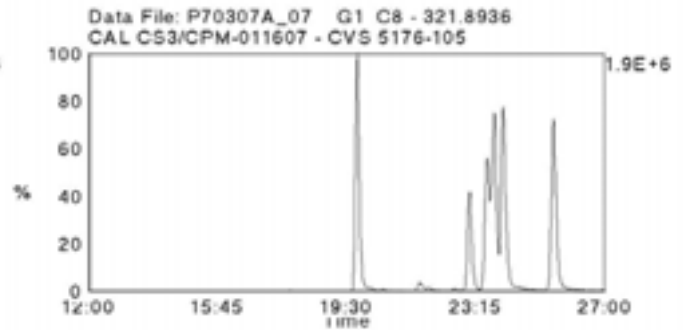
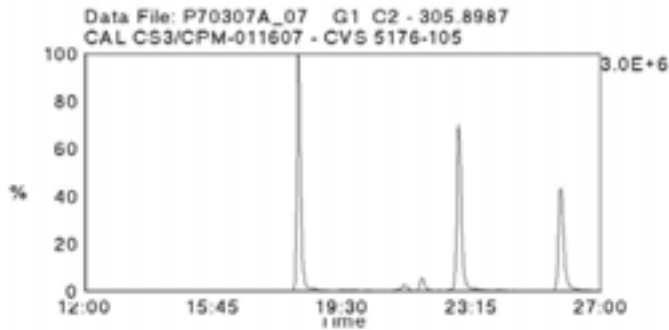
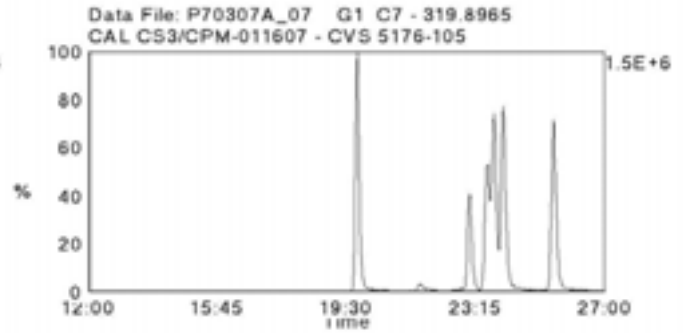
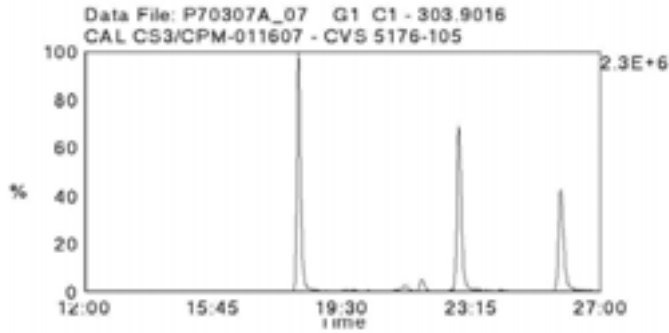
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70307A\_07

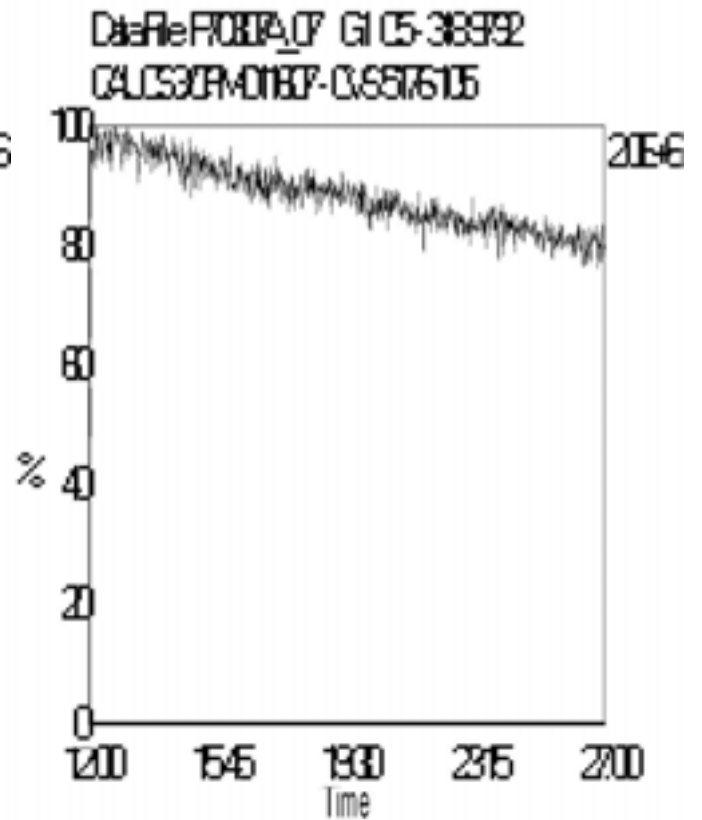
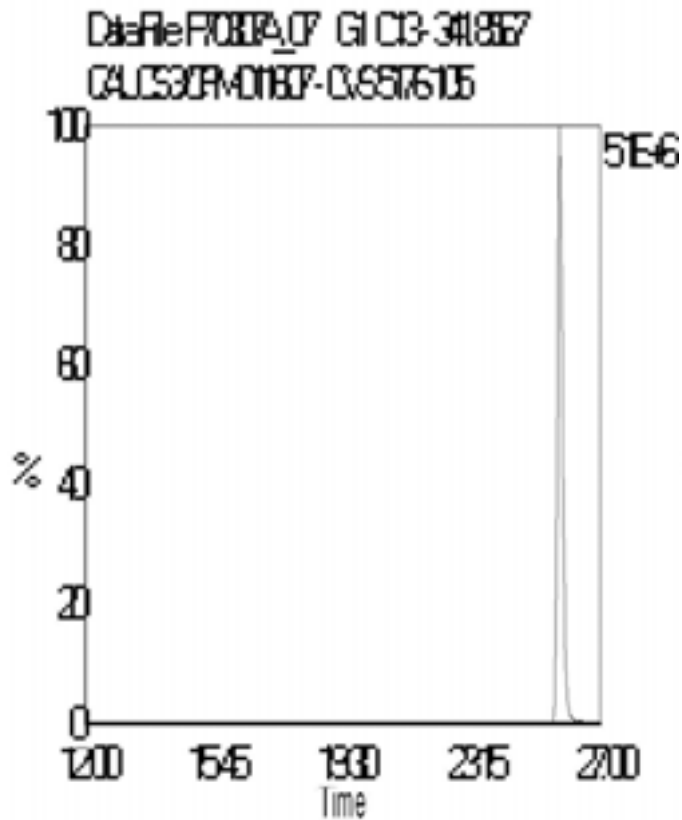
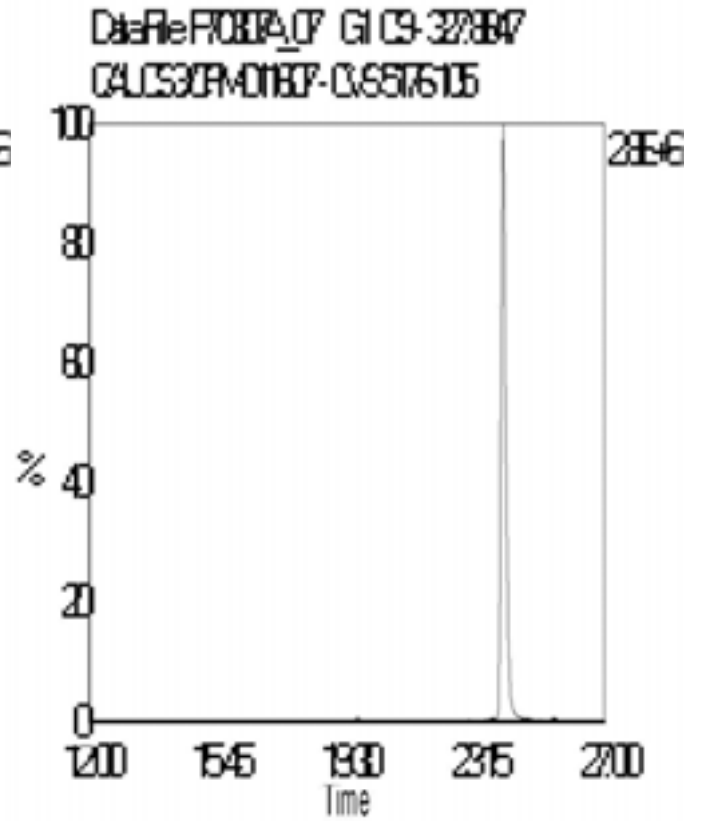
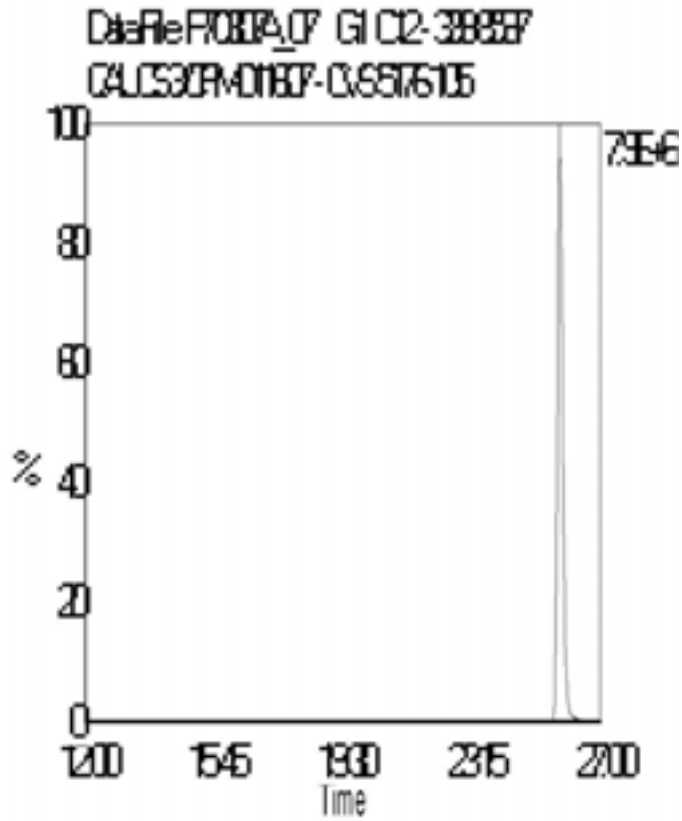
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Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70307A\_07

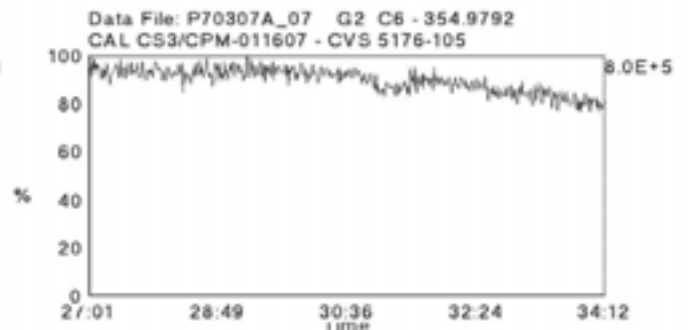
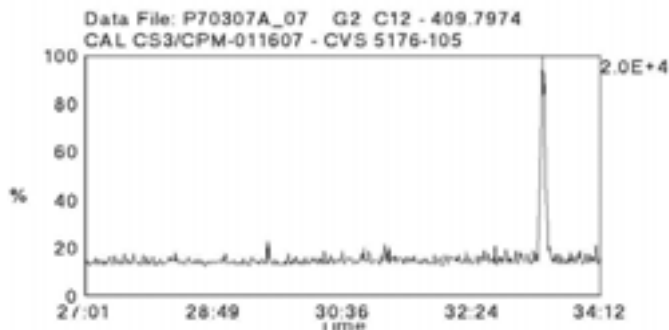
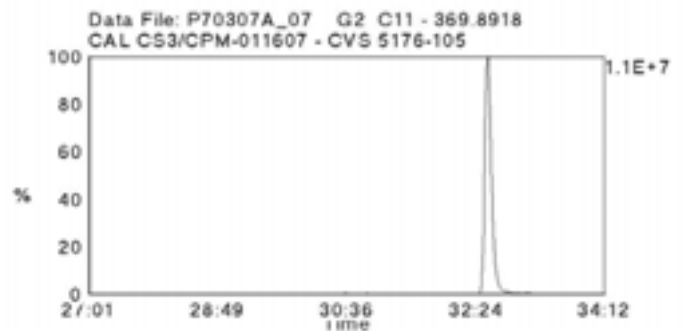
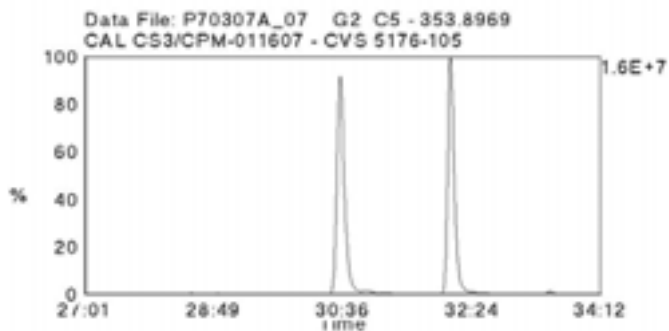
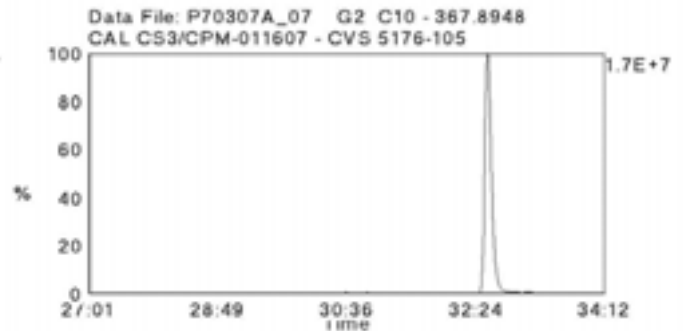
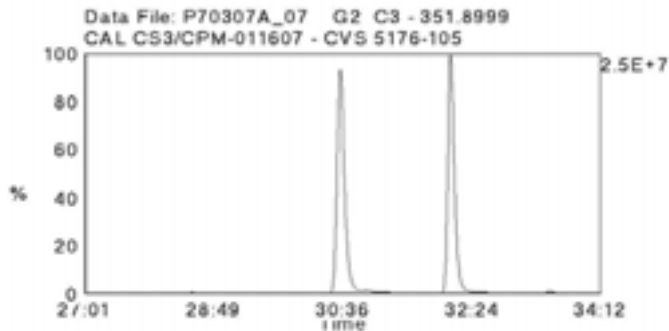
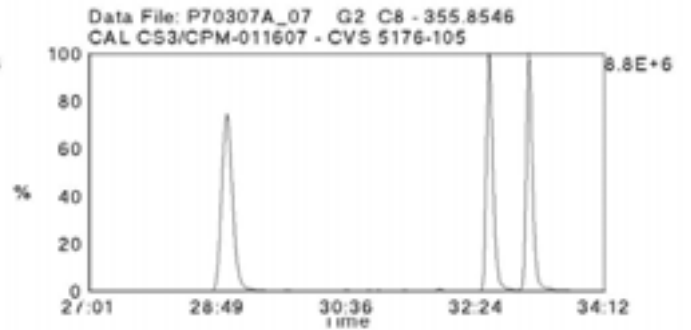
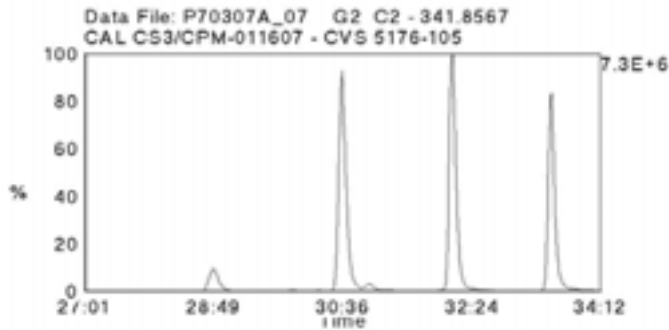
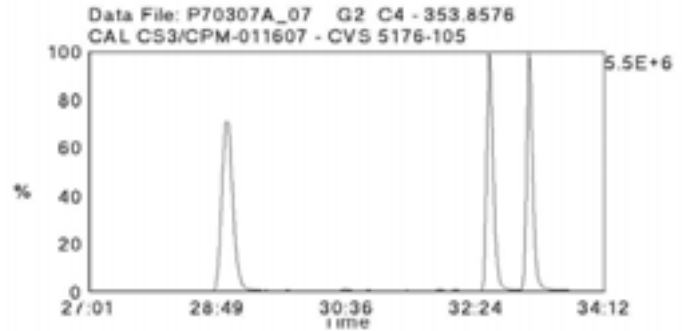
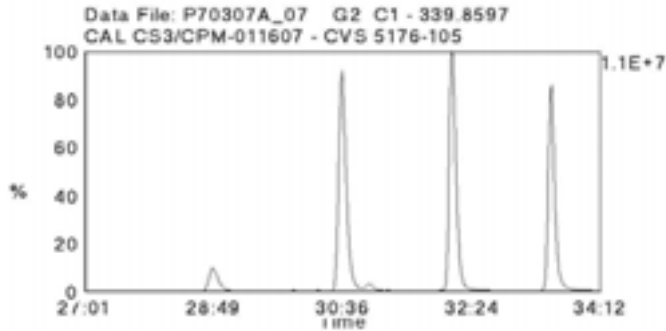
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Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70307A\_07

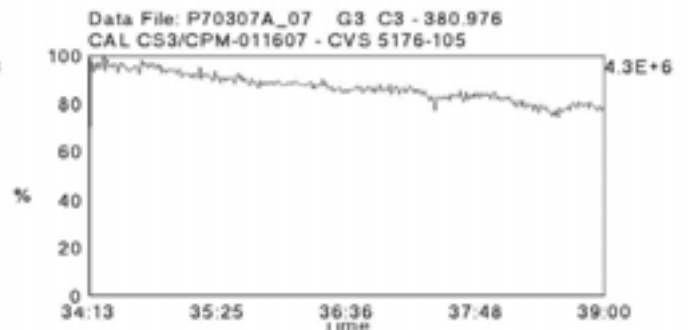
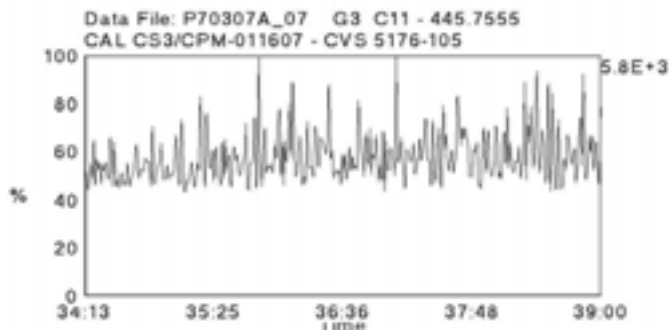
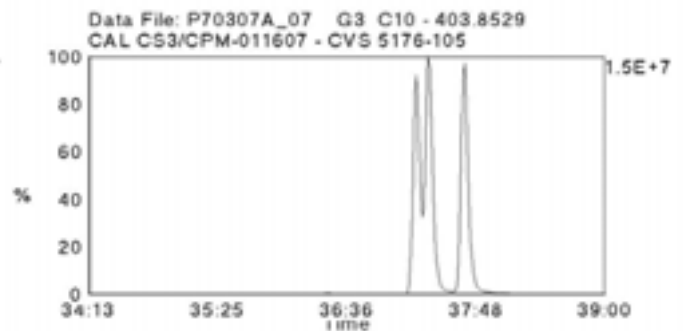
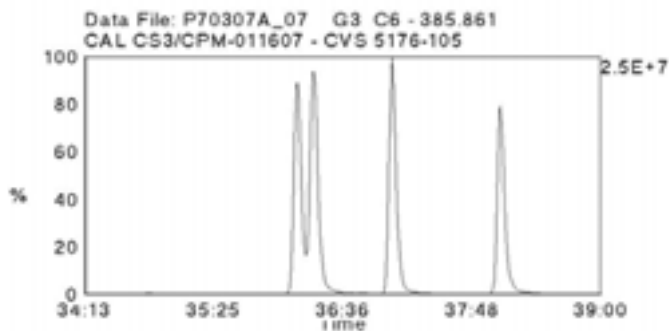
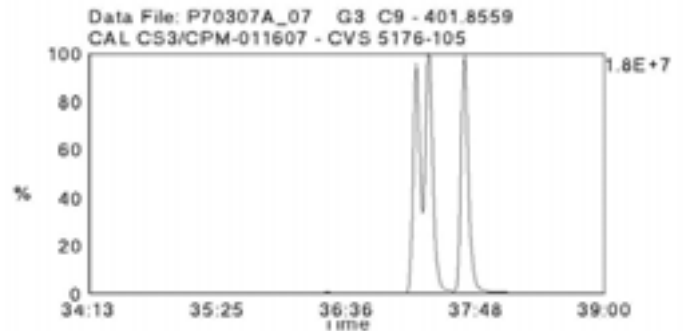
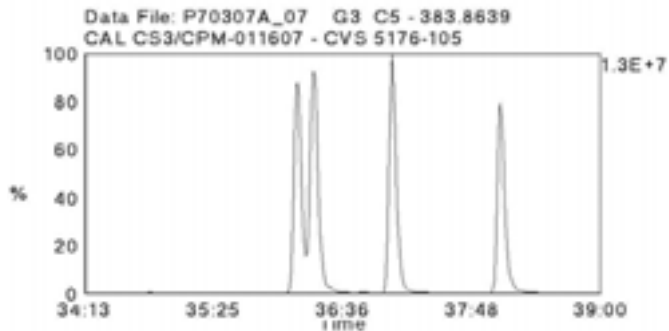
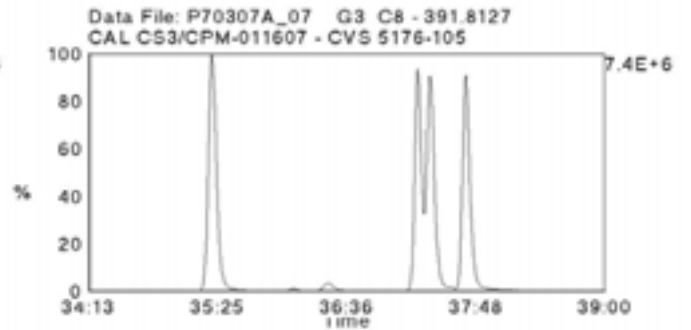
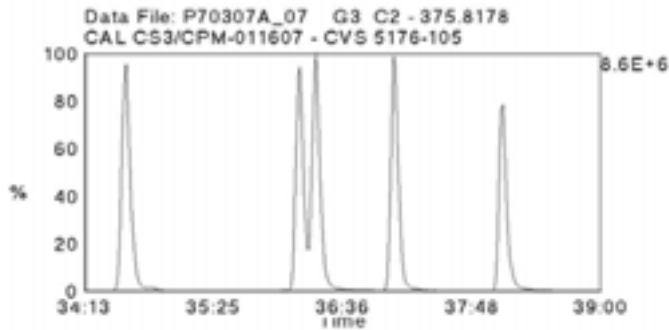
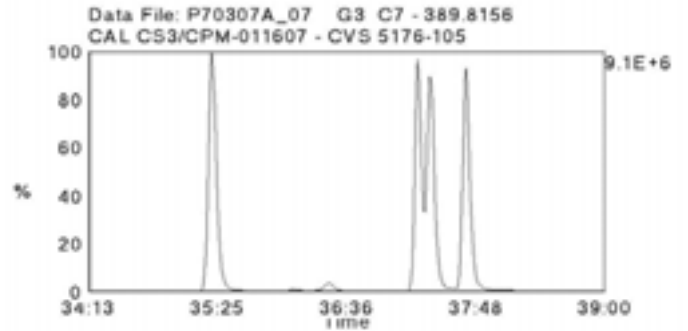
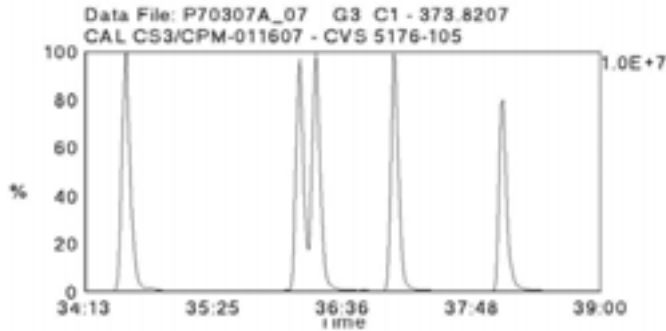
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70307A\_07

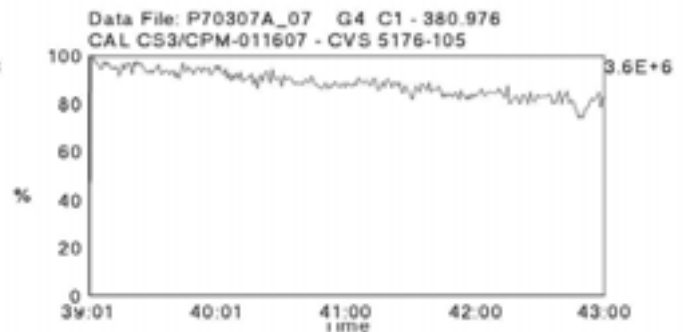
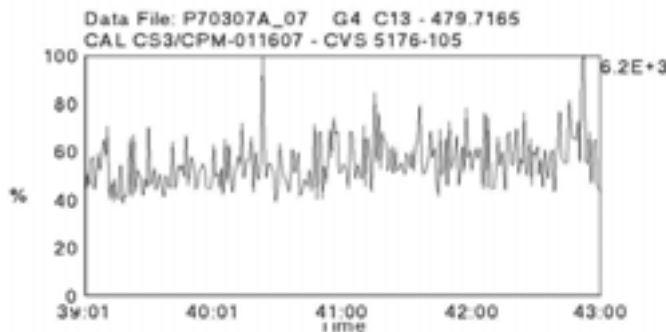
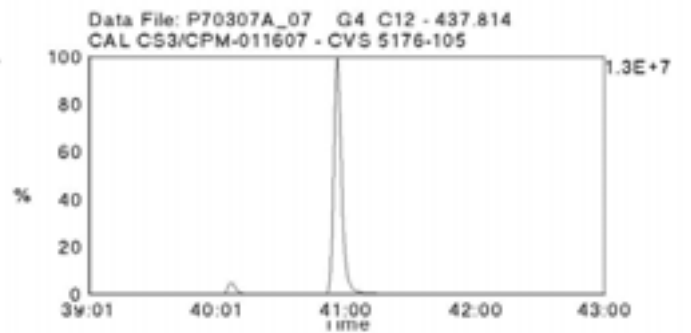
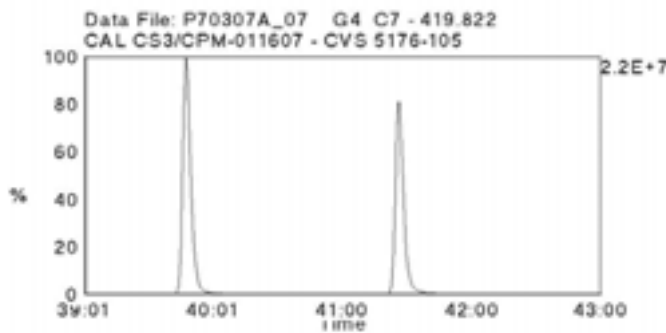
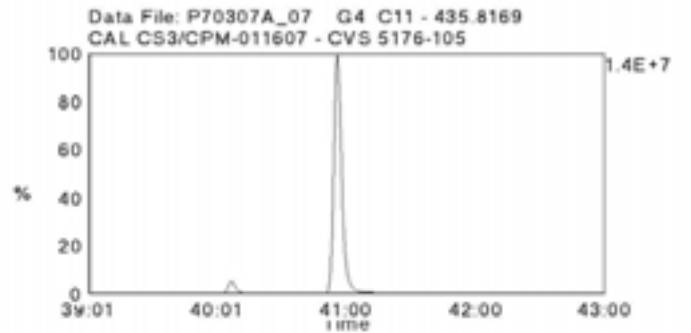
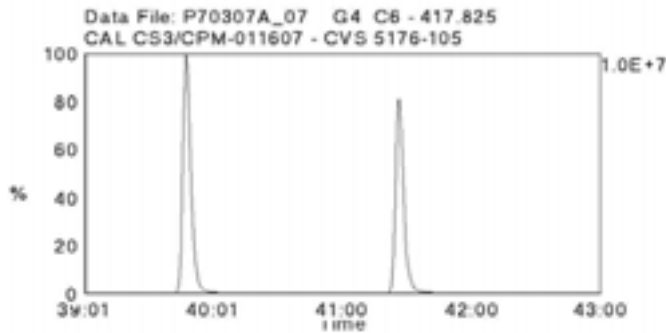
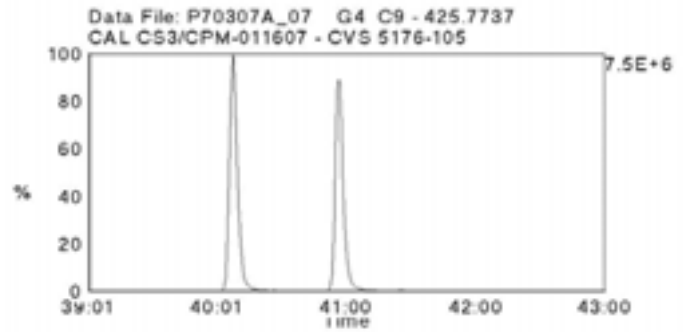
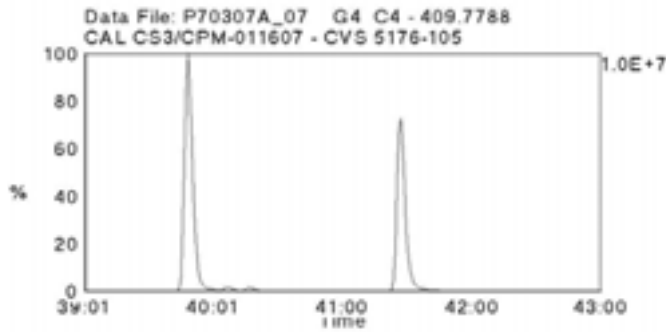
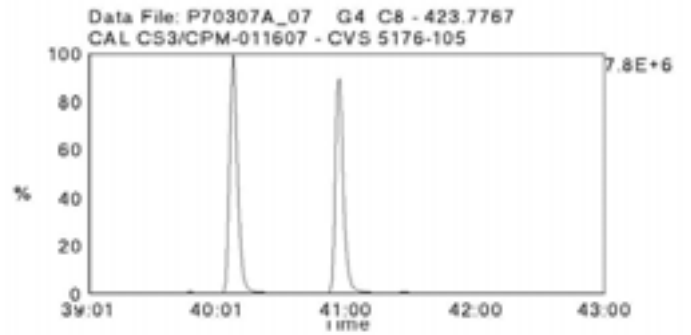
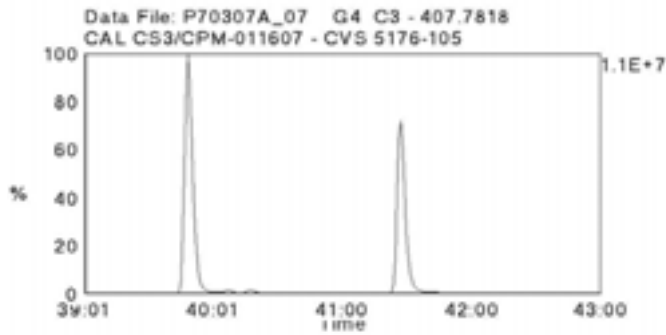
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70307A\_07

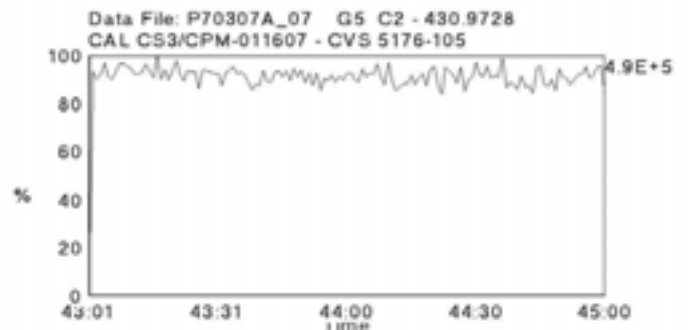
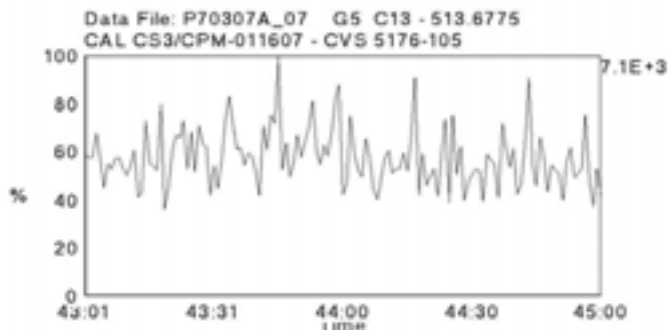
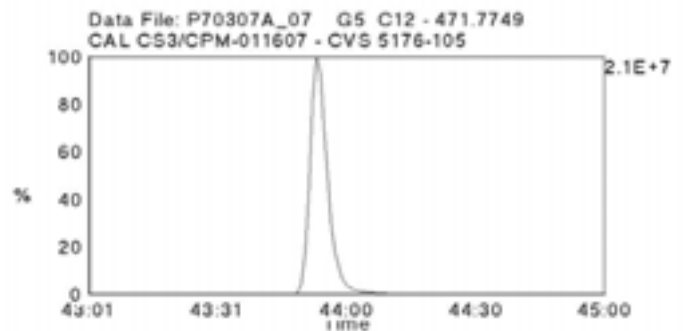
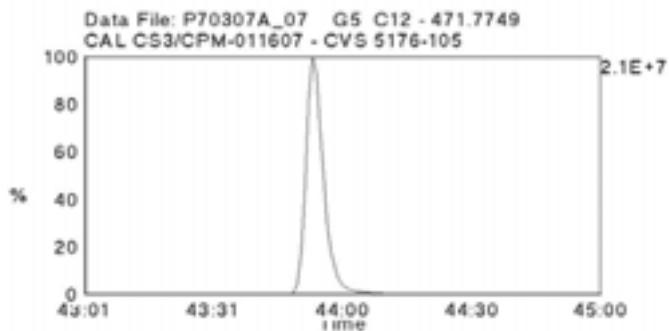
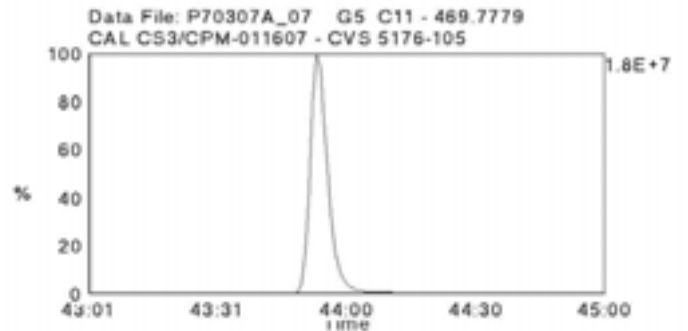
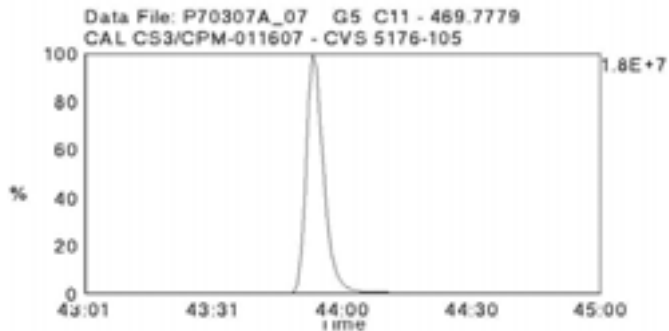
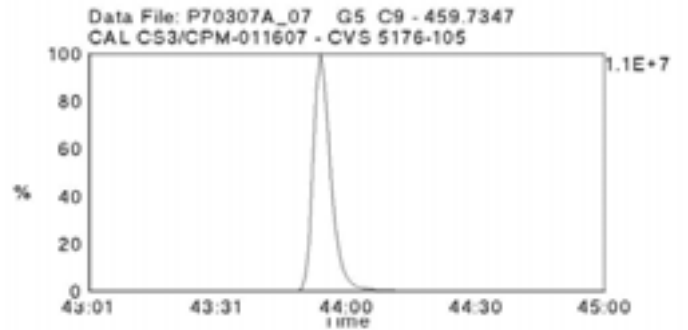
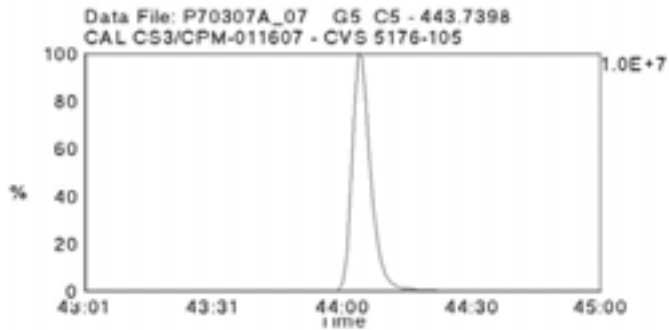
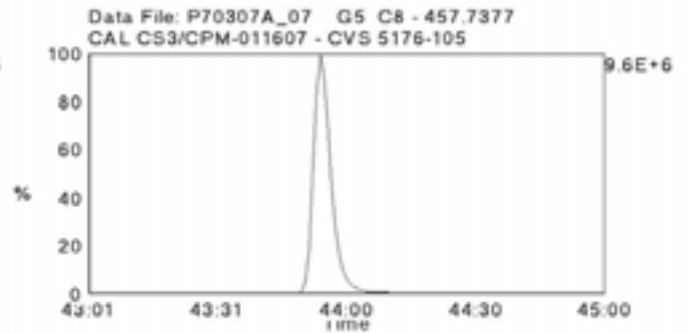
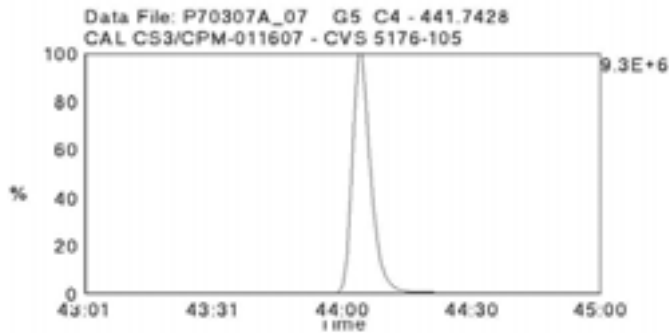
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

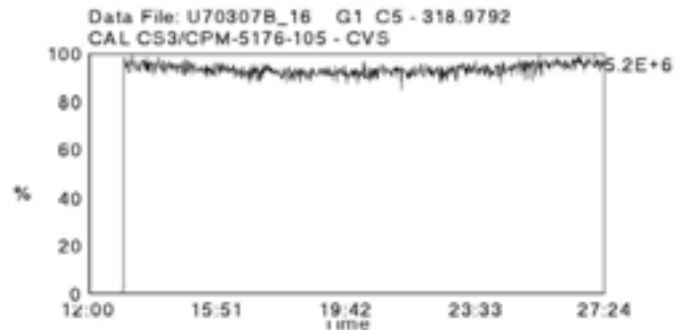
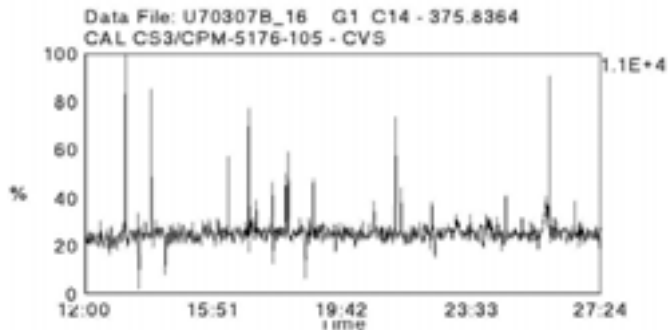
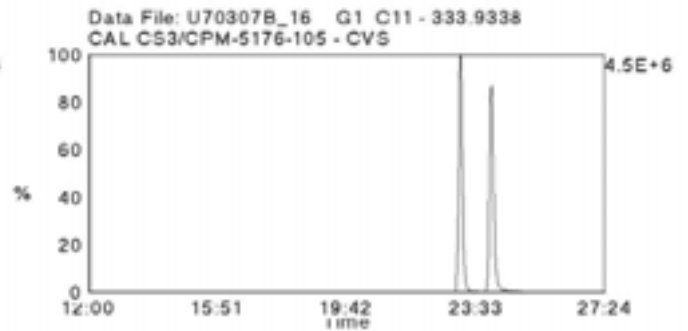
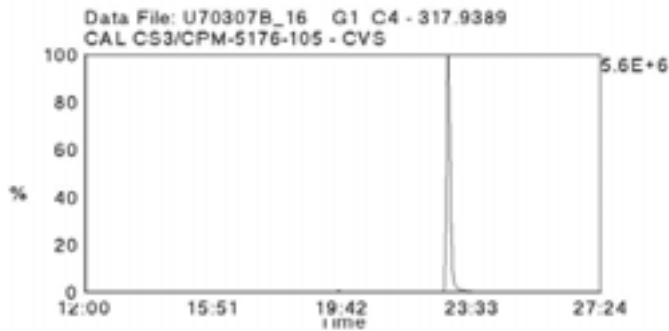
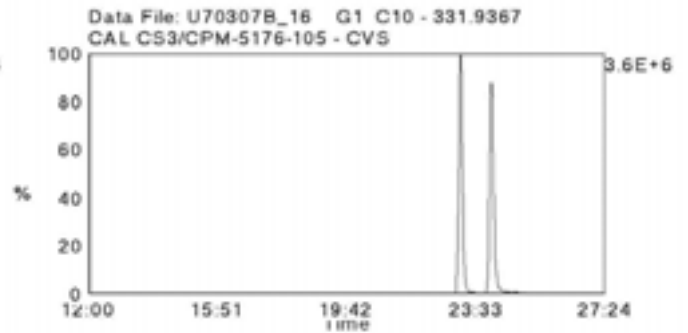
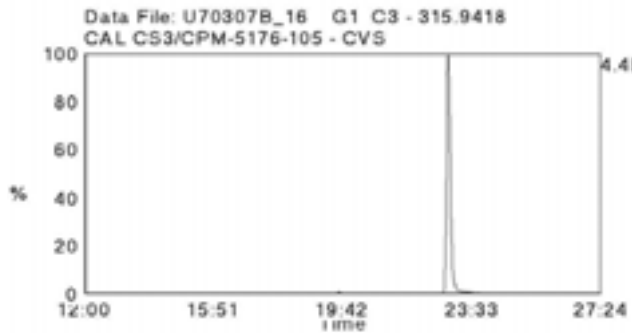
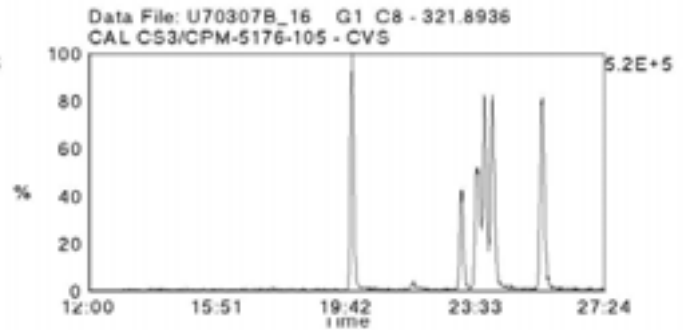
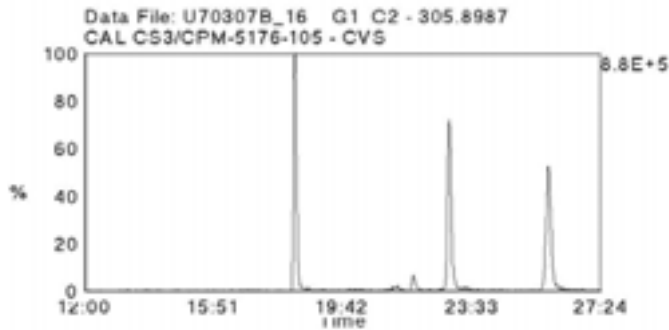
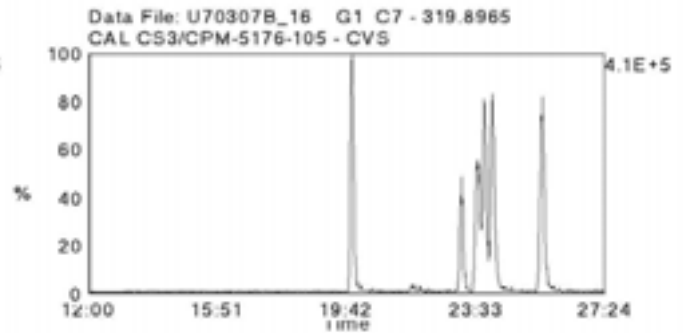
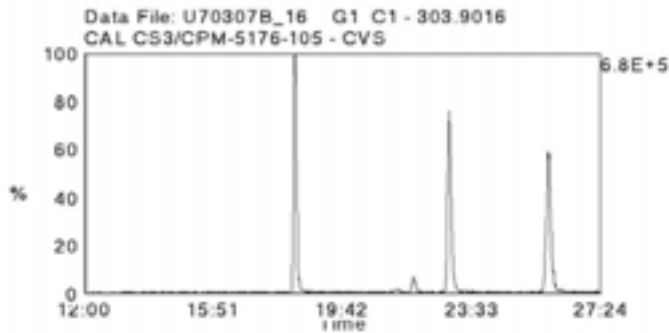
Instrument: 10MSHR09 (P)





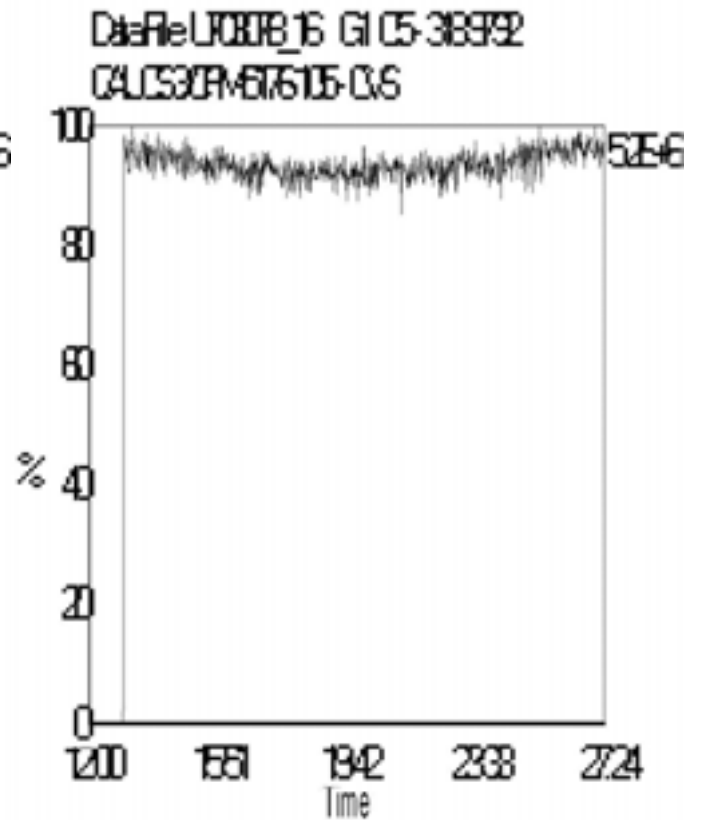
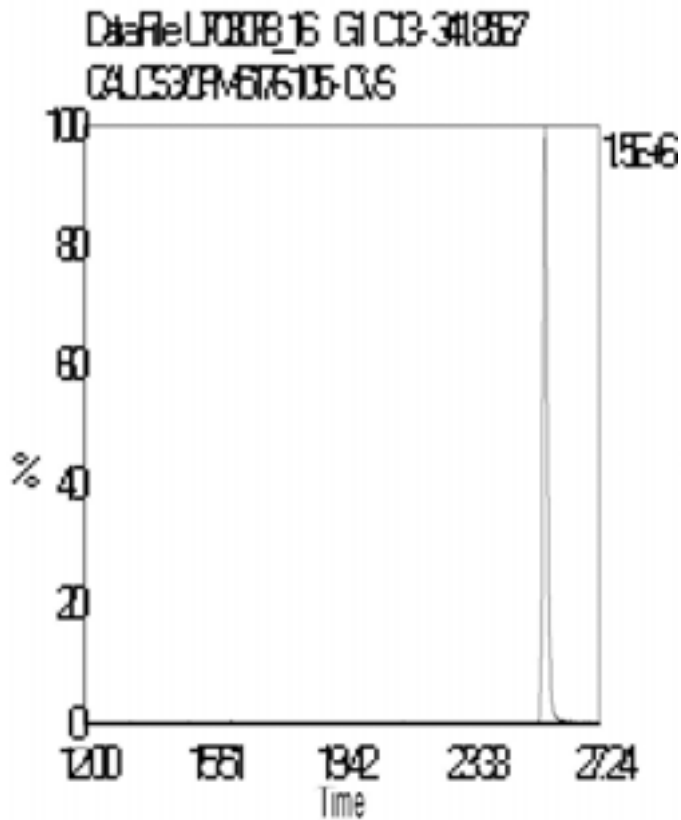
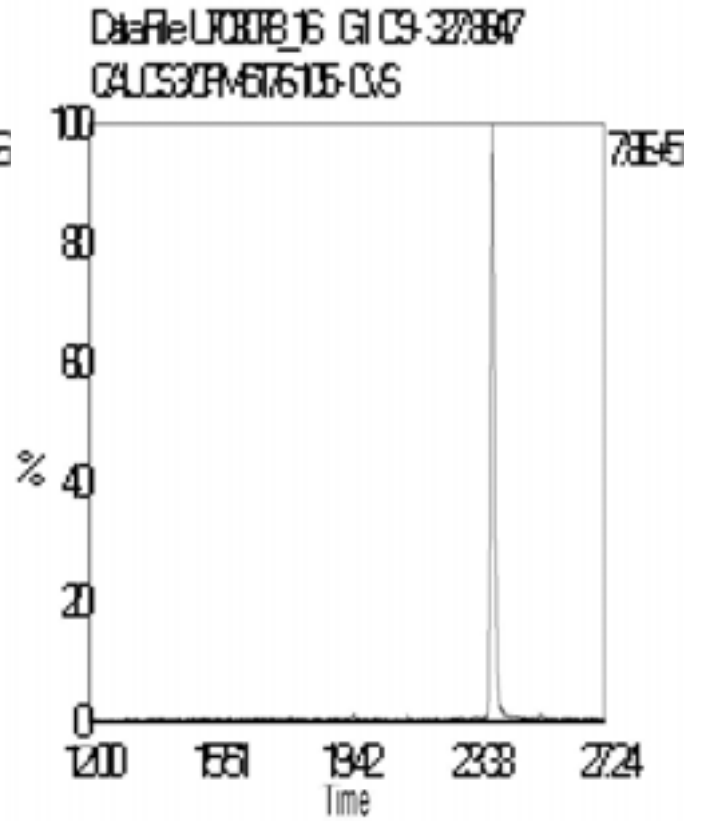
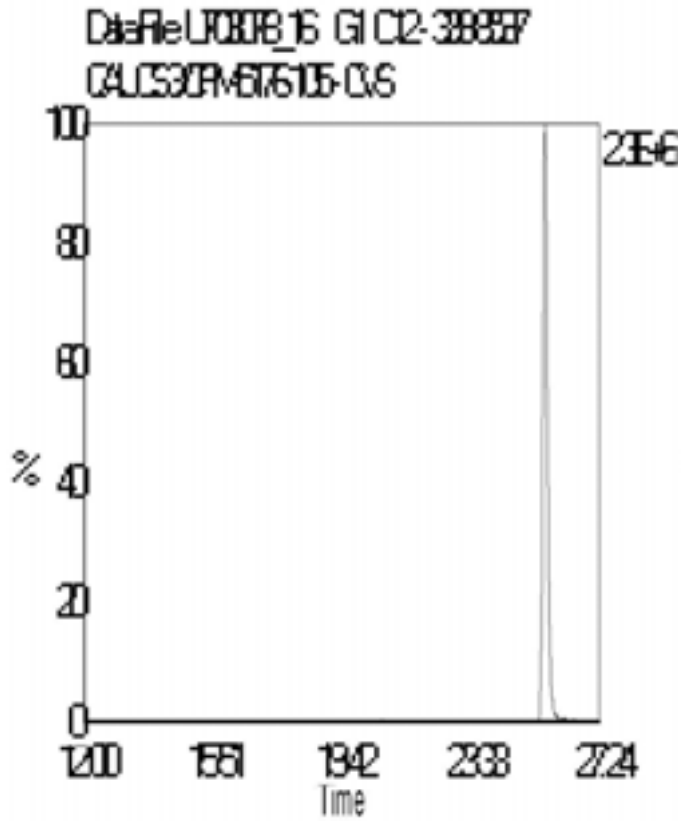
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Date Acquired: 3/8/2007  
Sample Description: CAL CS3/CPM-5176-105 - CVS

Lab Sample ID: CS3/CPM-5176-105  
Client Sample ID:  
Instrument: 10MSHR06 (U)



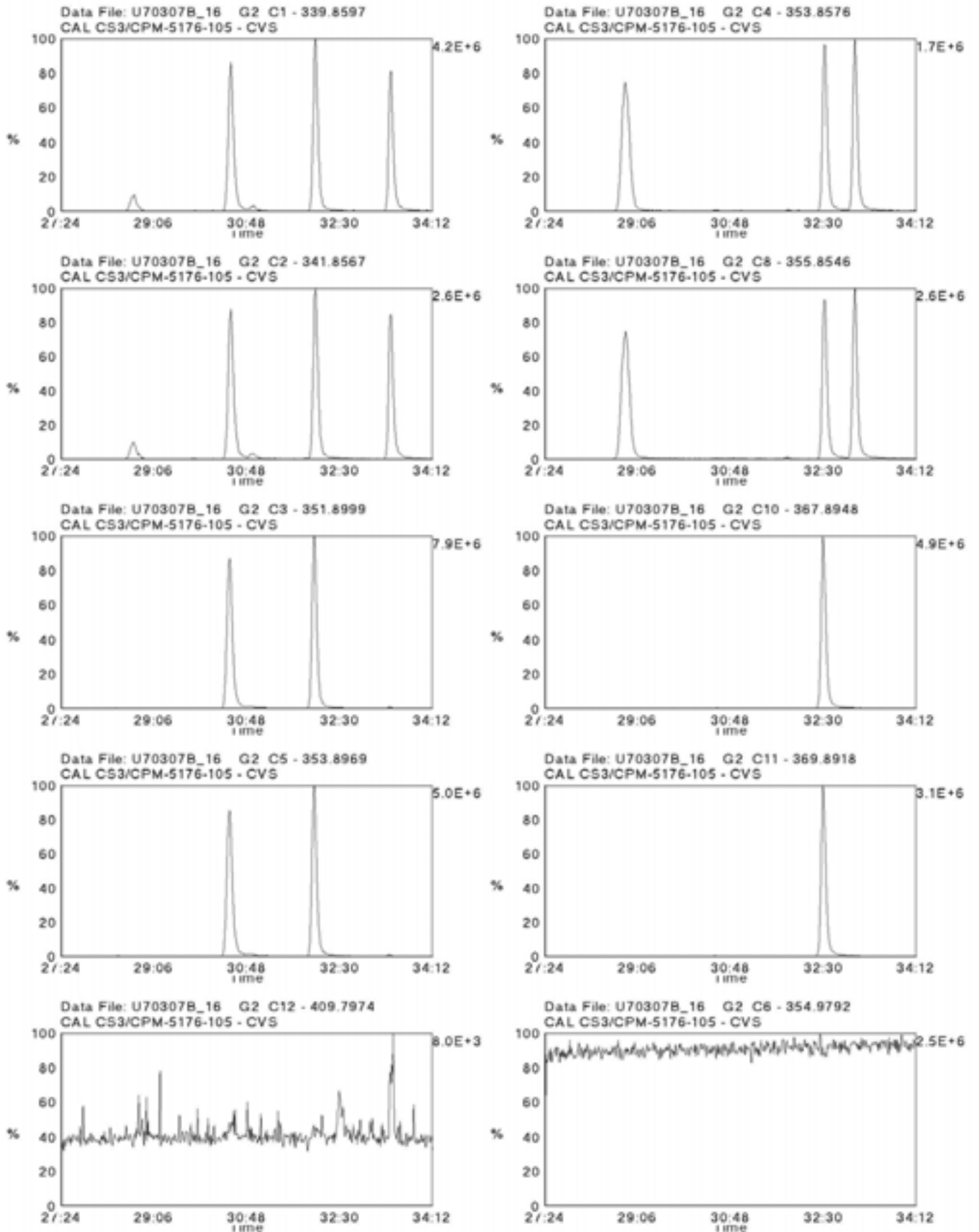
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Sample Description: CAL CS3/CPM-5176-105 - CVS

Lab Sample ID: CS3/CPM-5176-105  
Client Sample ID:  
Instrument: 10MSHR06 (U)



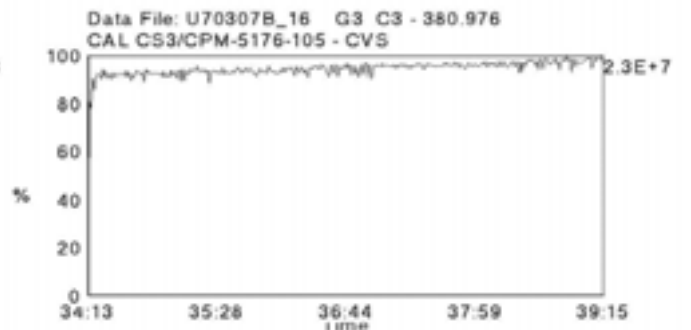
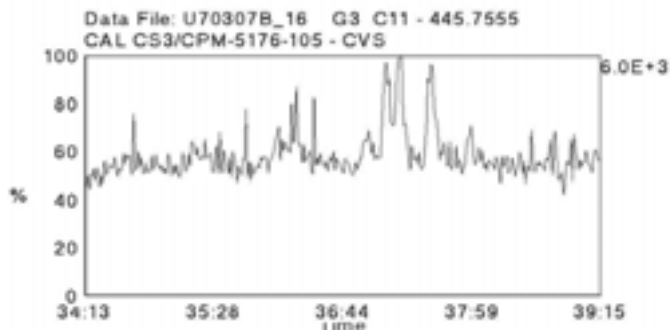
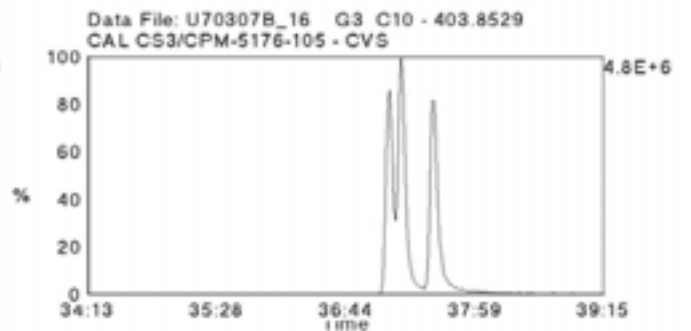
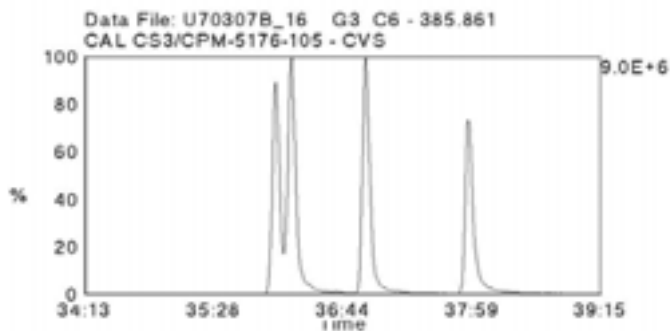
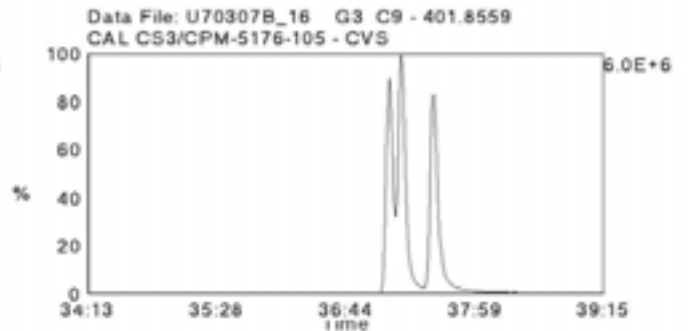
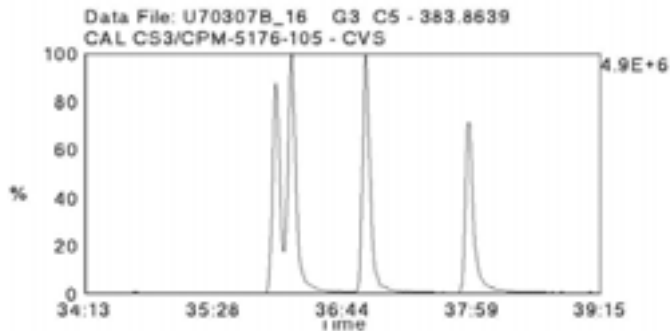
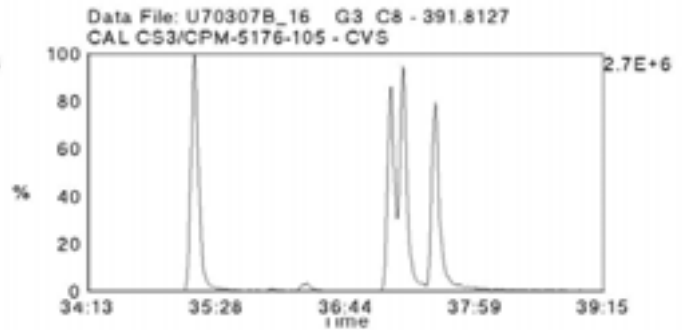
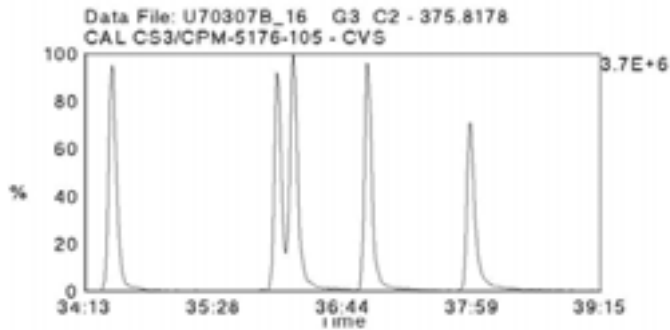
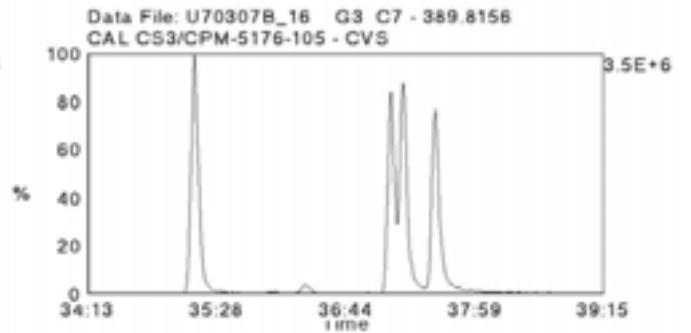
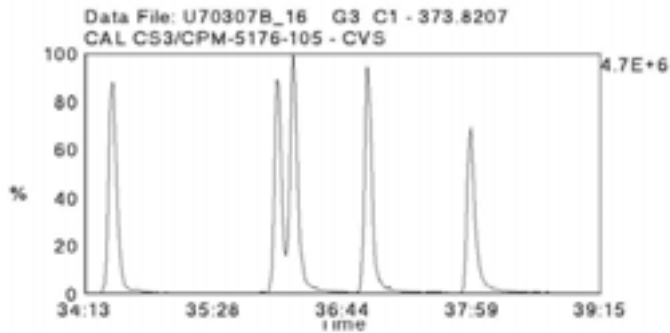
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Date Acquired: 3/8/2007  
Sample Description: CAL CS3/CPM-5176-105 - CVS

Lab Sample ID: CS3/CPM-5176-105  
Client Sample ID:  
Instrument: 10MSHR06 (U)



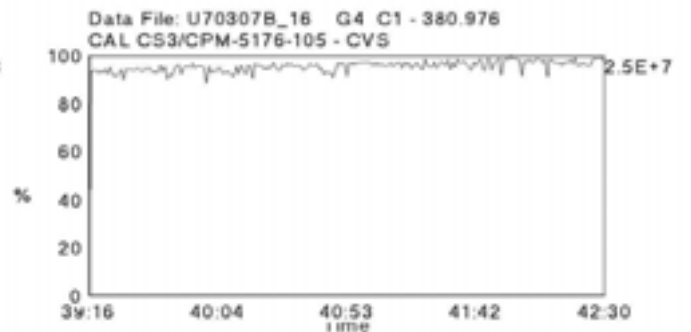
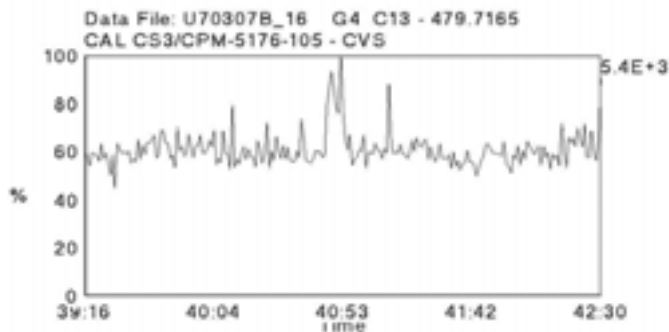
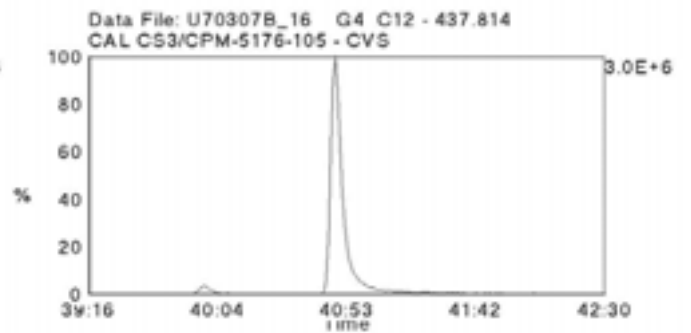
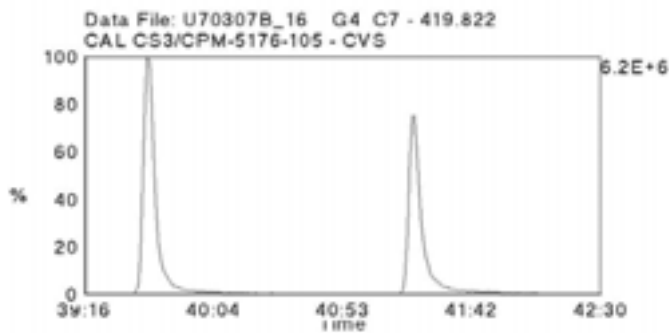
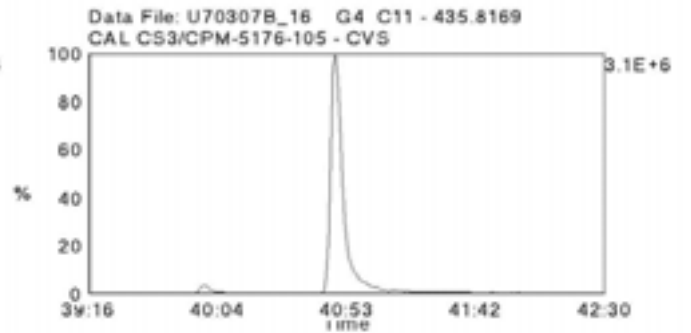
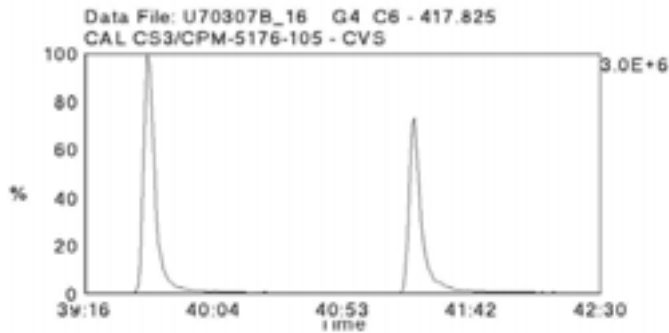
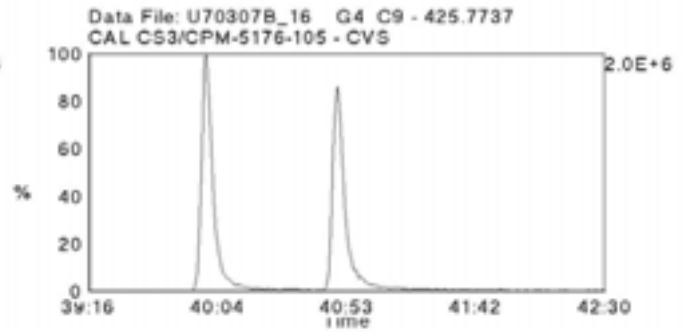
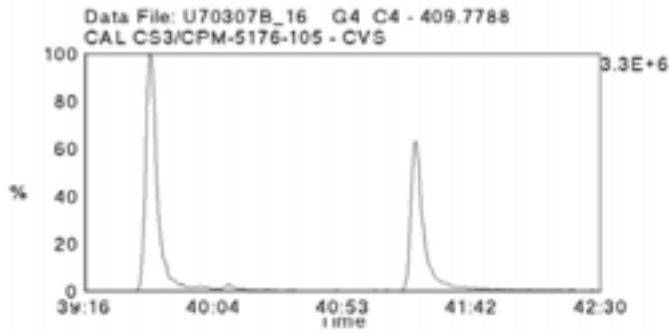
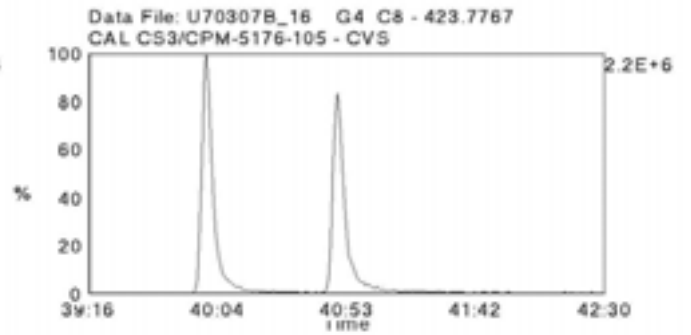
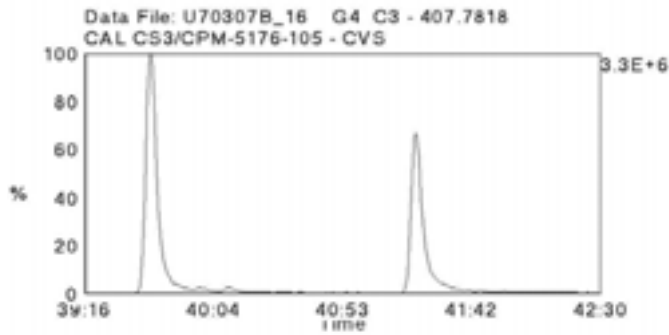
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Date Acquired: 3/8/2007  
Sample Description: CAL CS3/CPM-5176-105 - CVS

Lab Sample ID: CS3/CPM-5176-105  
Client Sample ID:  
Instrument: 10MSHR06 (U)



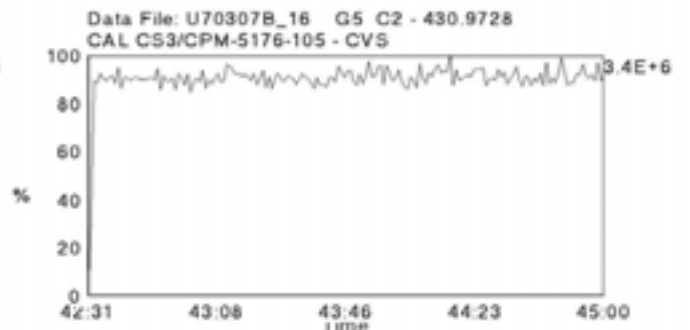
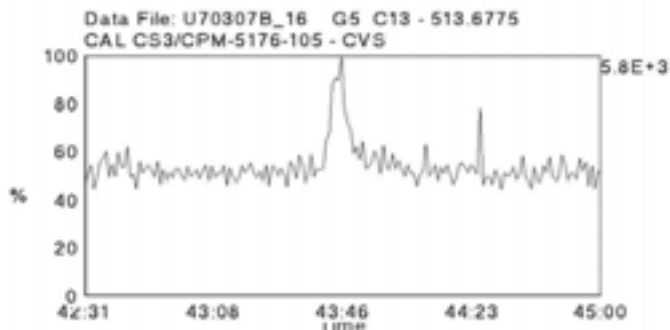
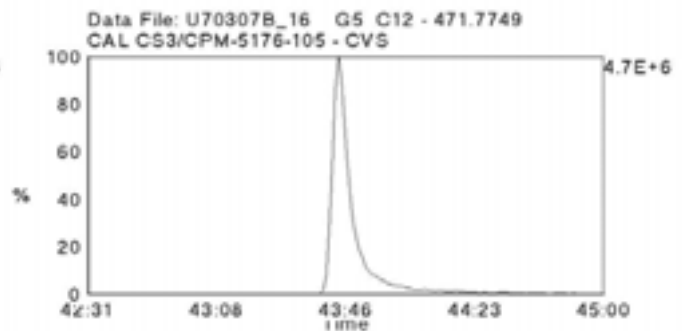
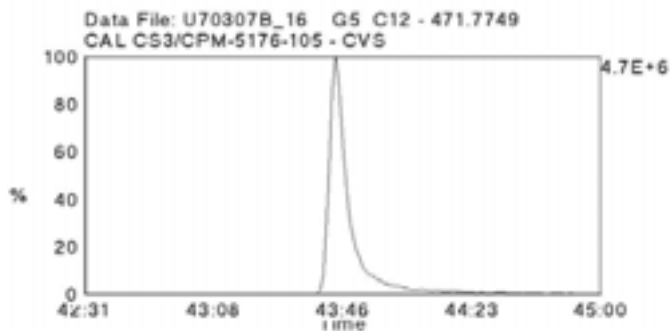
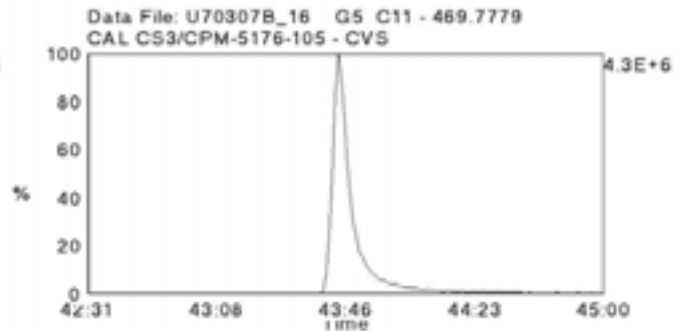
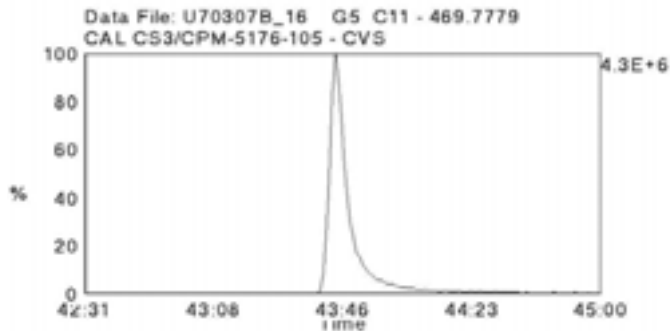
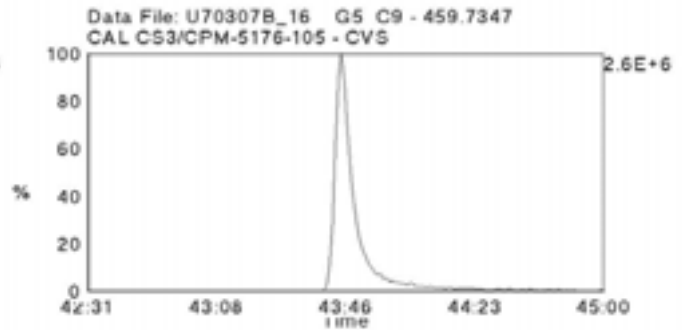
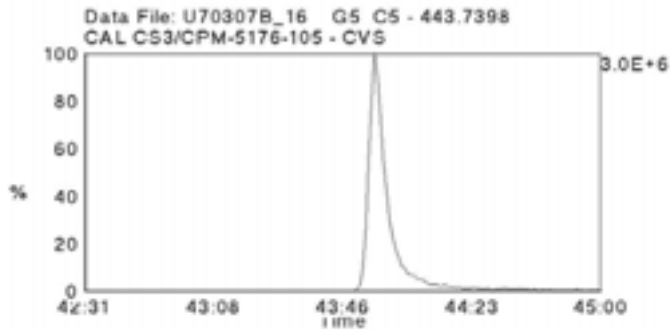
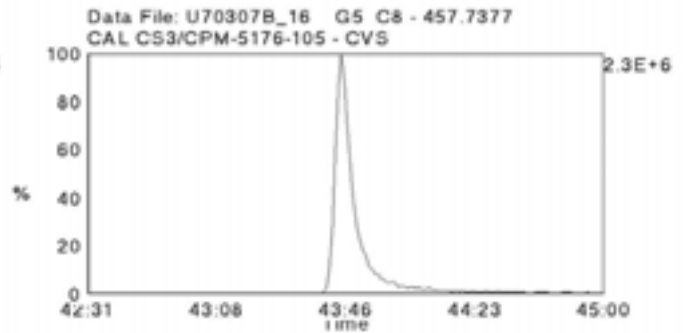
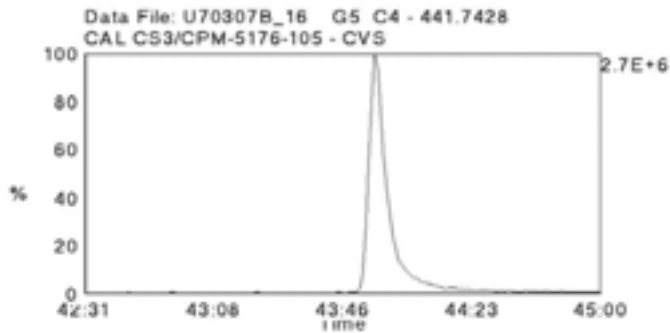
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Date Acquired: 3/8/2007  
Sample Description: CAL CS3/CPM-5176-105 - CVS

Lab Sample ID: CS3/CPM-5176-105  
Client Sample ID:  
Instrument: 10MSHR06 (U)



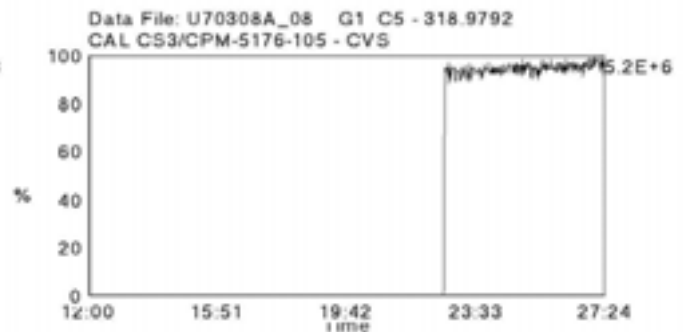
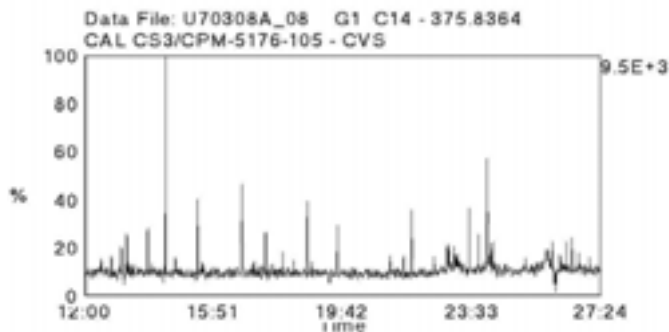
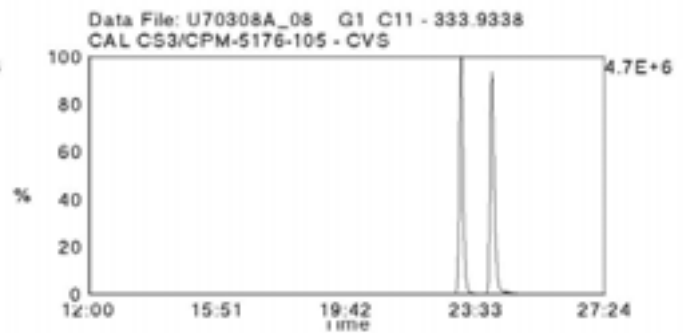
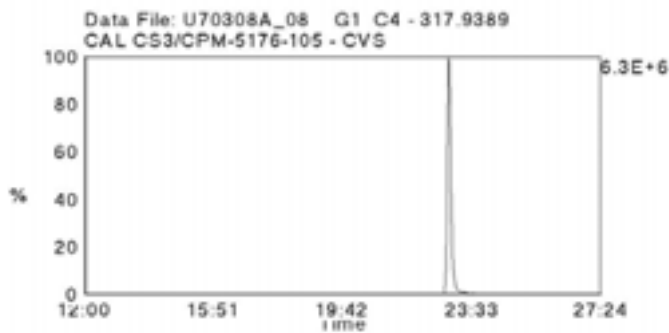
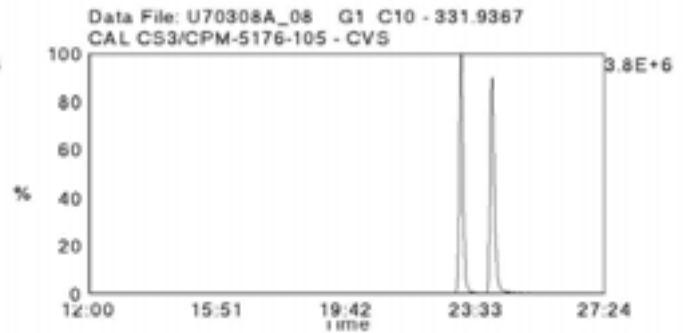
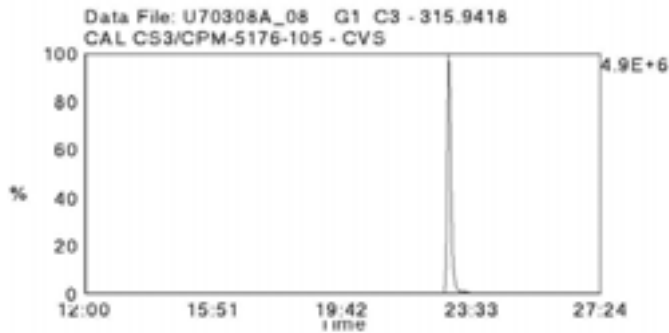
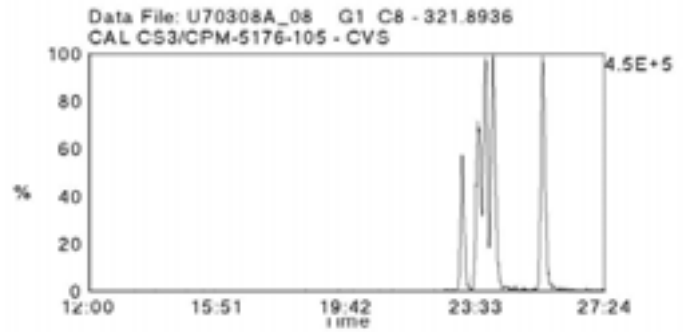
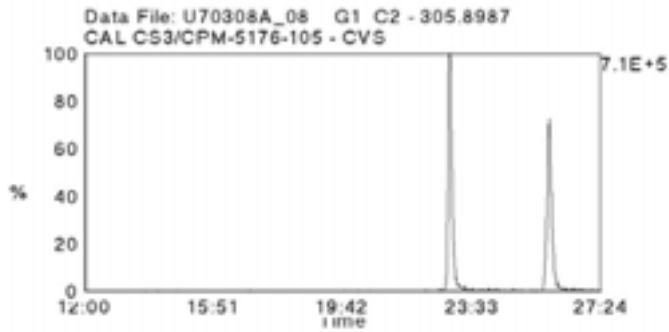
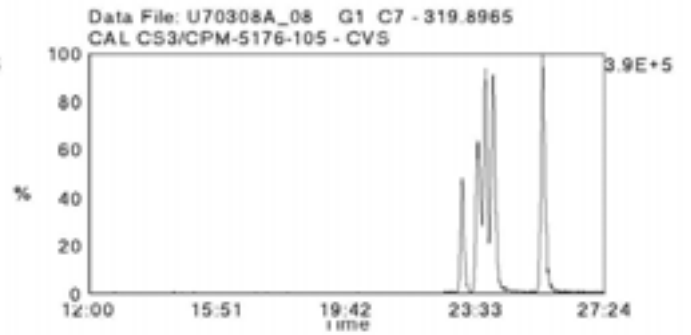
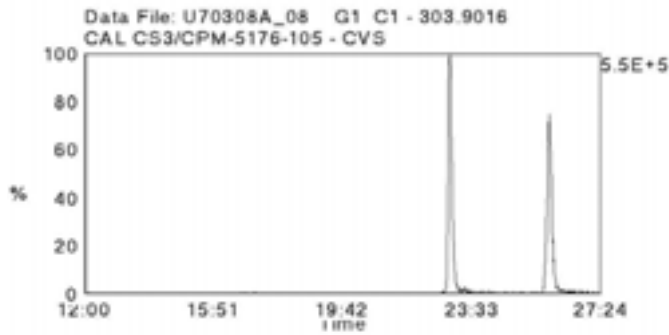
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Date Acquired: 3/8/2007  
Sample Description: CAL CS3/CPM-5176-105 - CVS

Lab Sample ID: CS3/CPM-5176-105  
Client Sample ID:  
Instrument: 10MSHR06 (U)



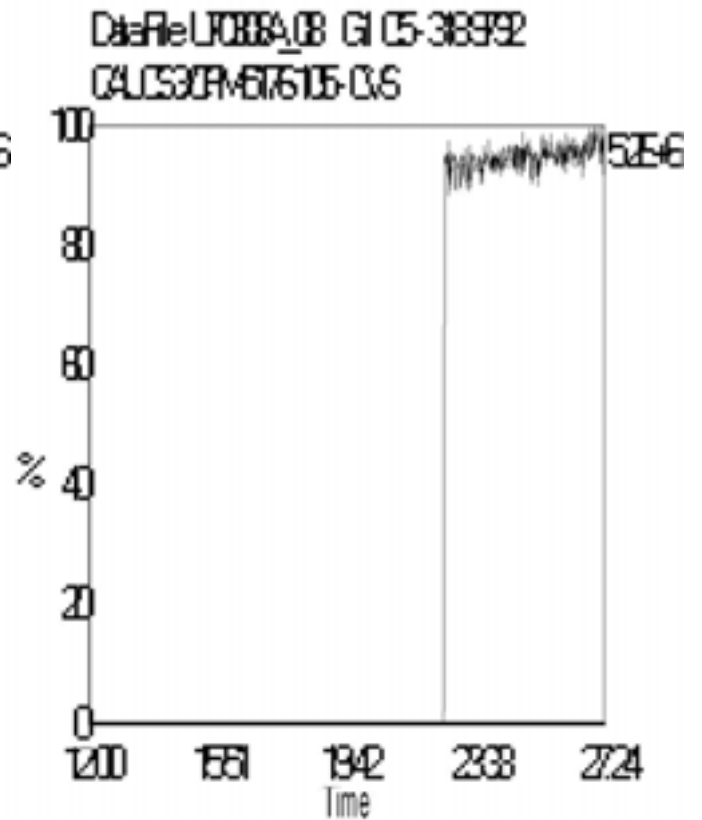
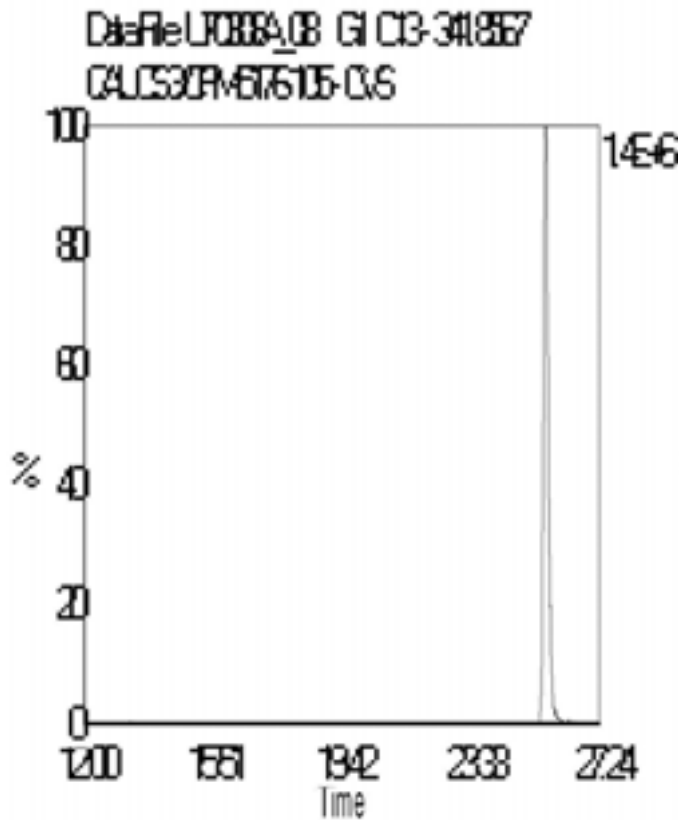
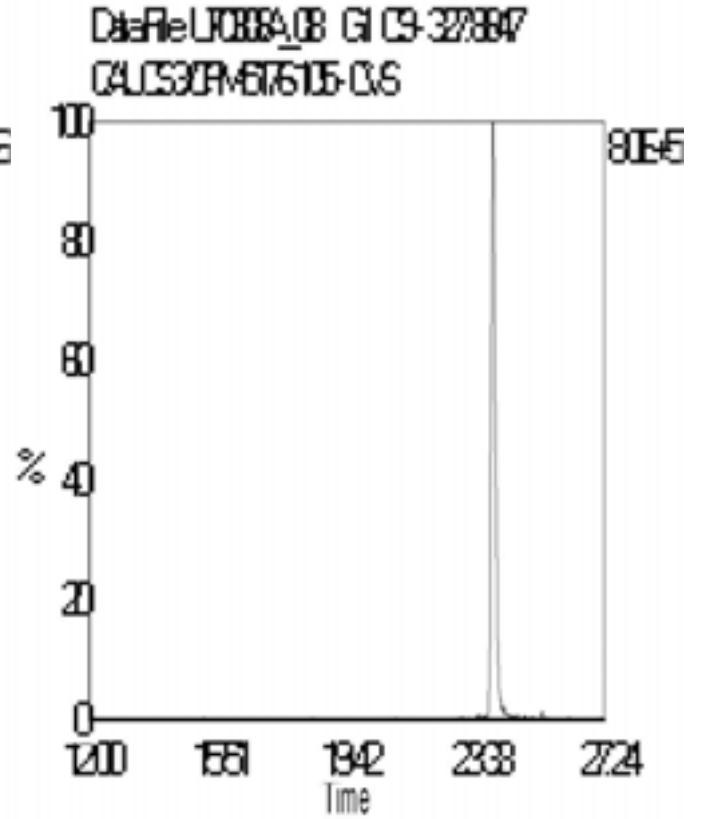
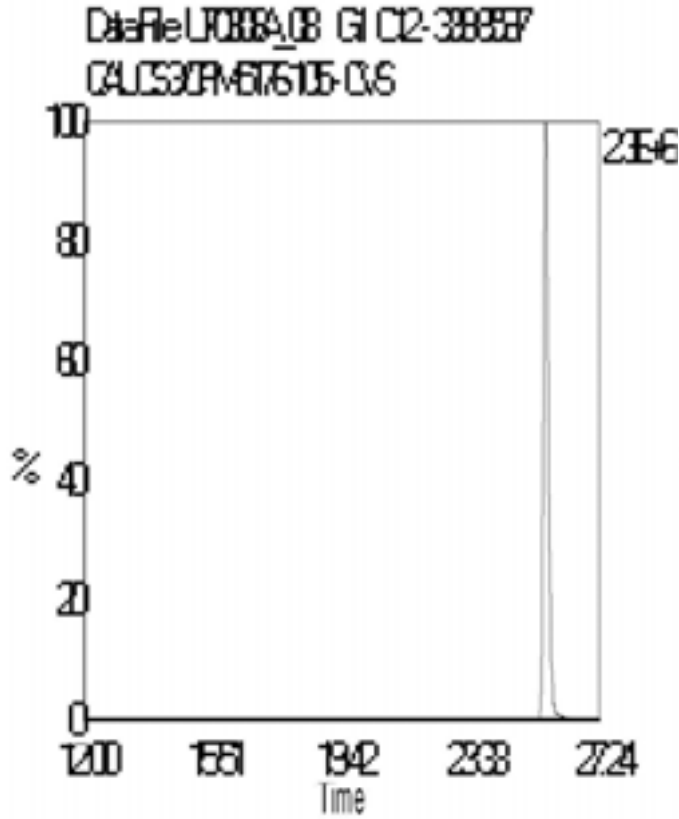
Data File Name: U70308A\_08  
Date Acquired: 3/8/2007  
Sample Description: CAL CS3/CPM-5176-105 - CVS

Lab Sample ID: CS3/CPM-5176-105  
Client Sample ID:  
Instrument: 10MSHR06 (U)



Data File Name: U70308A\_08  
Date Acquired: 3/8/2007  
Sample Description: CAL CS3/CPM-5176-105 - CVS

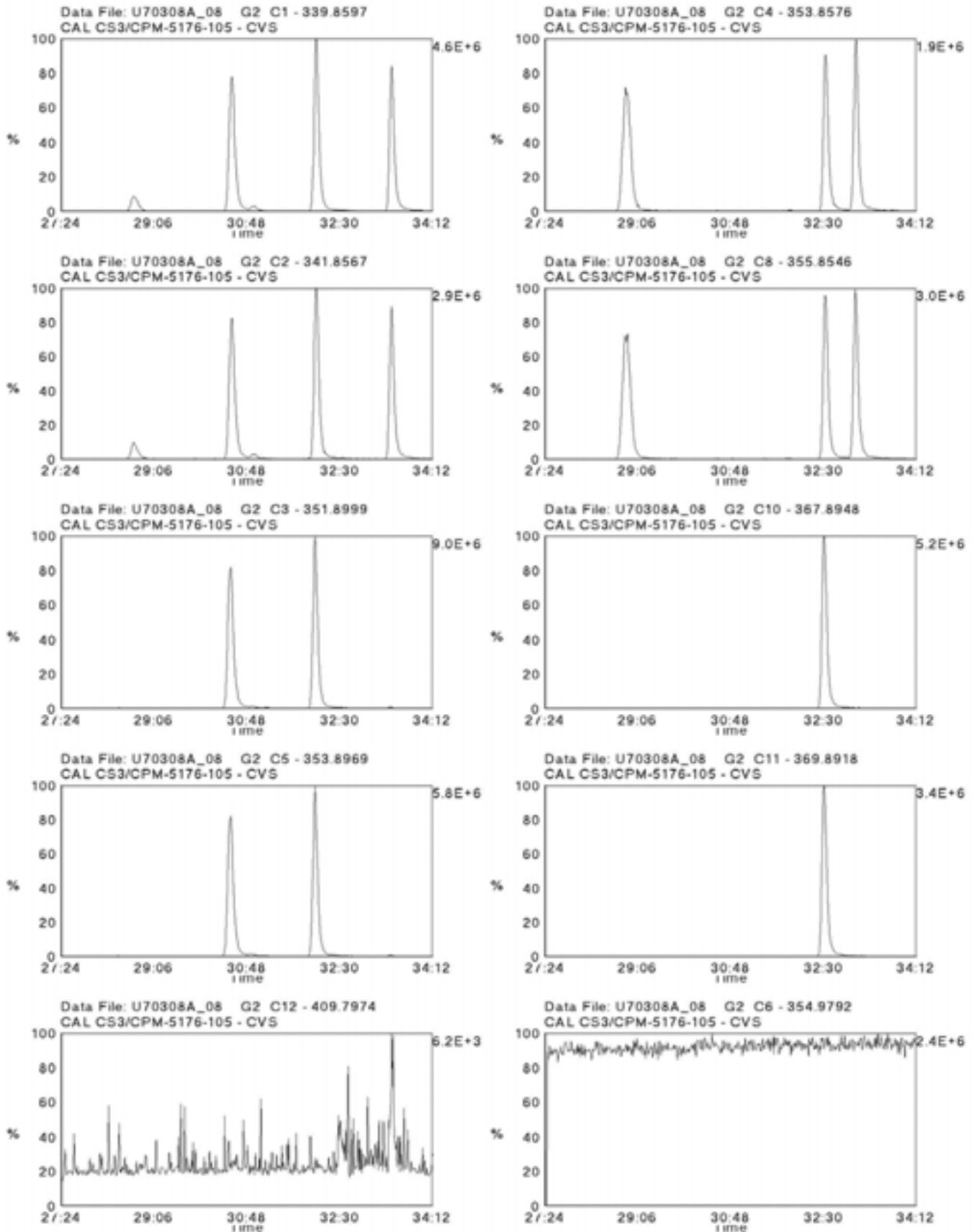
Lab Sample ID: CS3/CPM-5176-105  
Client Sample ID:  
Instrument: 10MSHR06 (U)





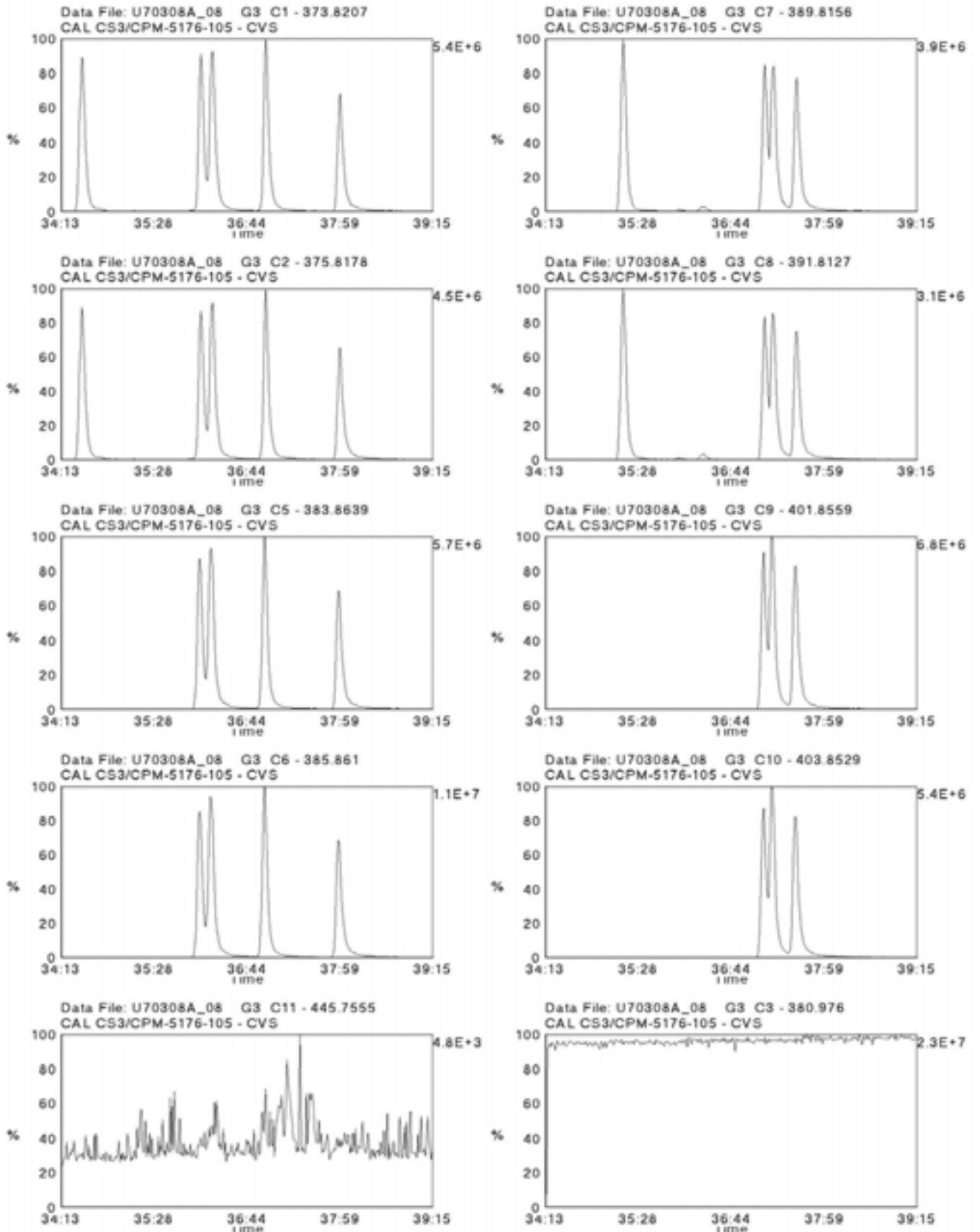
Data File Name: U70308A\_08  
Date Acquired: 3/8/2007  
Sample Description: CAL CS3/CPM-5176-105 - CVS

Lab Sample ID: CS3/CPM-5176-105  
Client Sample ID:  
Instrument: 10MSHR06 (U)



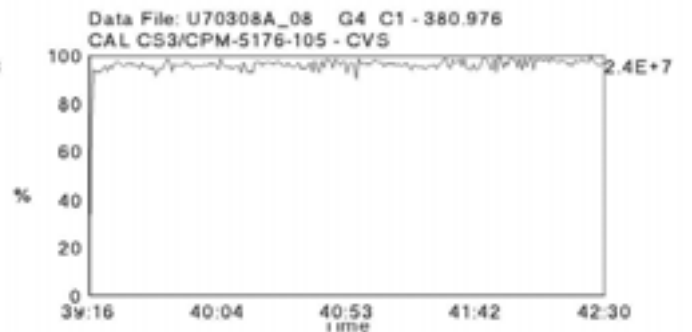
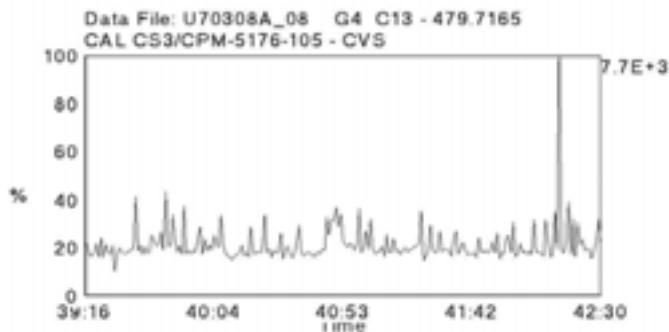
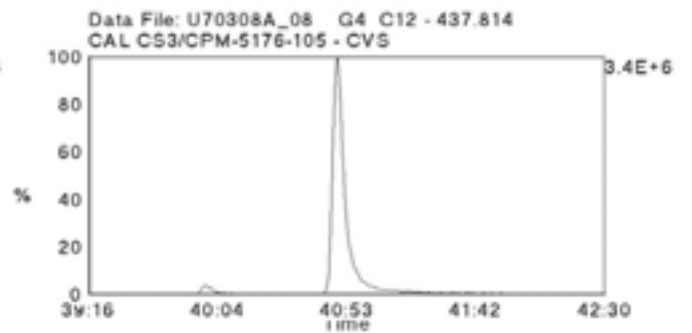
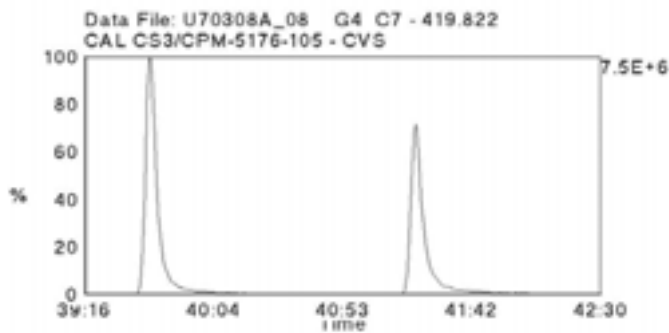
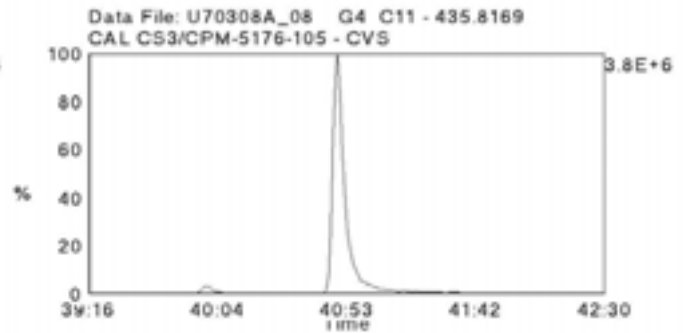
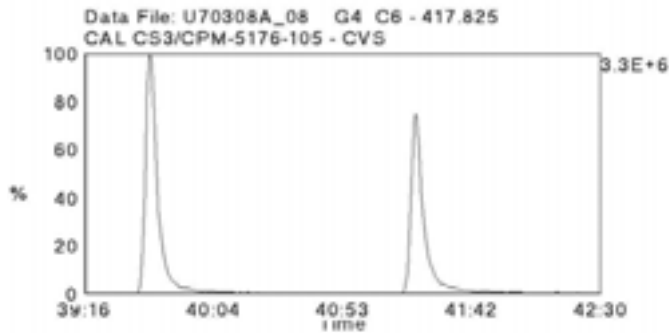
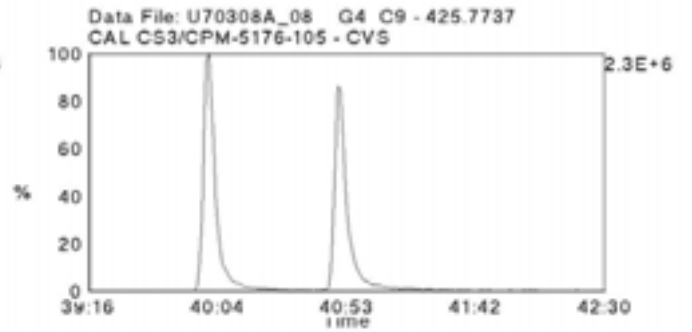
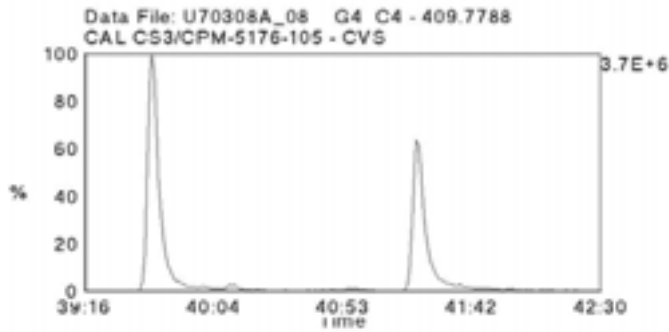
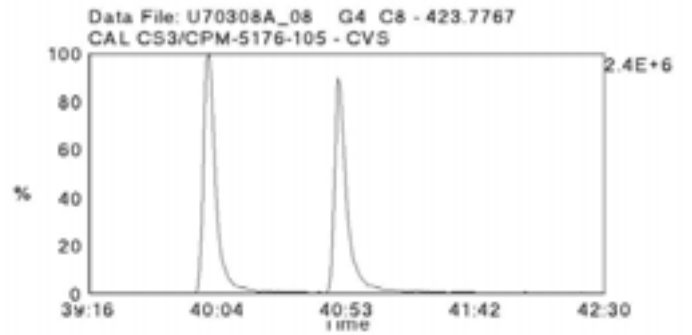
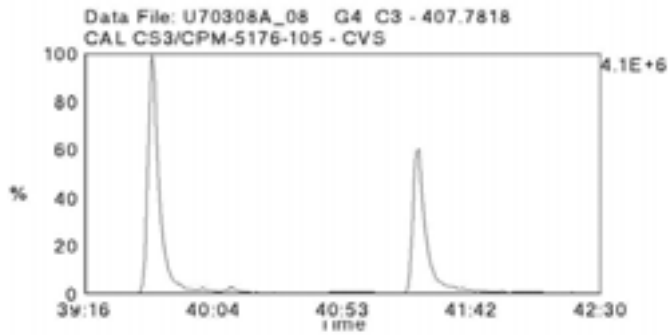
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Date Acquired: 3/8/2007  
Sample Description: CAL CS3/CPM-5176-105 - CVS

Lab Sample ID: CS3/CPM-5176-105  
Client Sample ID:  
Instrument: 10MSHR06 (U)



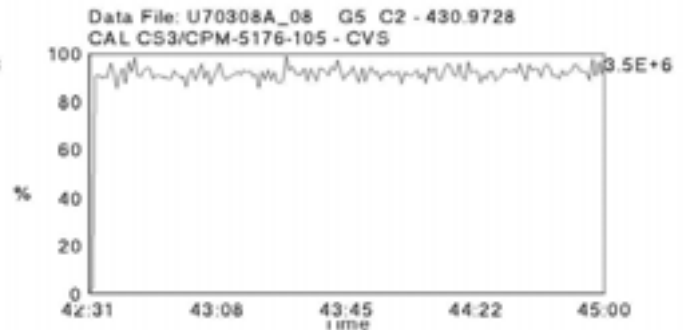
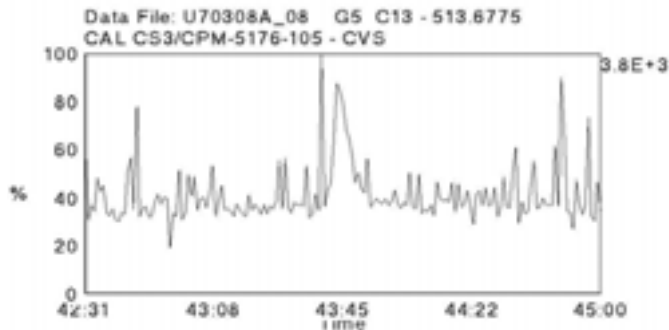
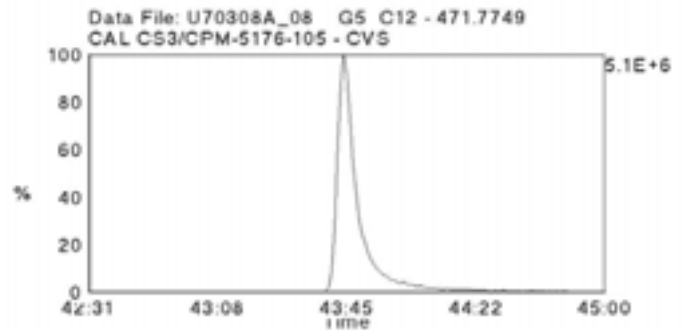
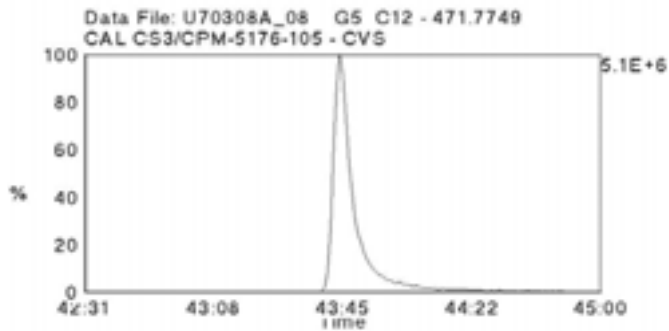
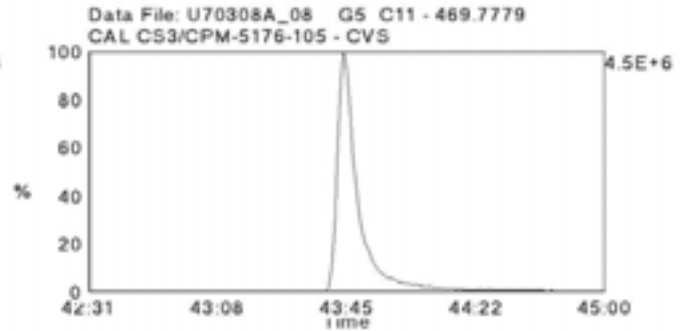
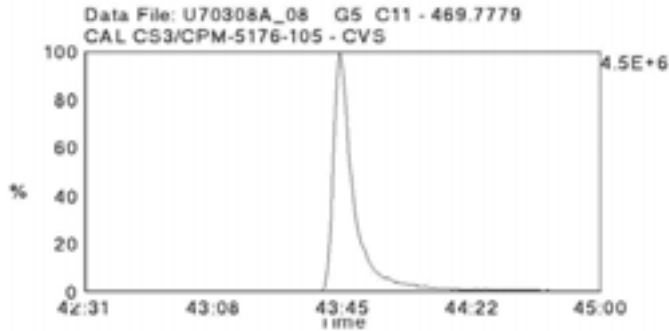
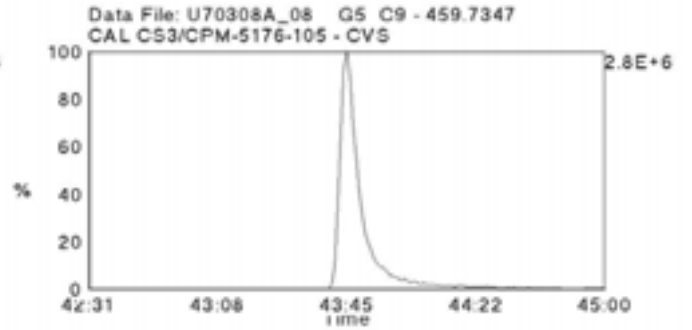
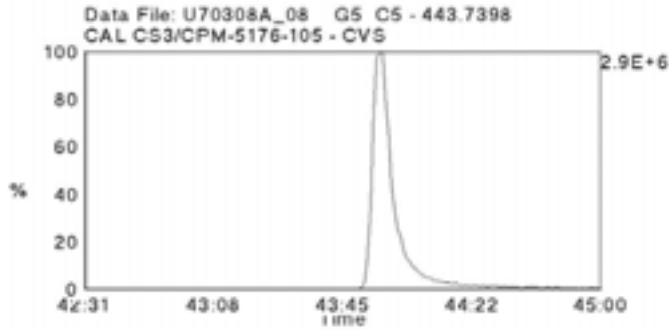
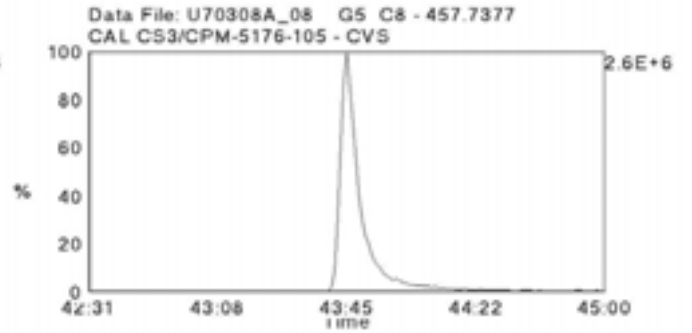
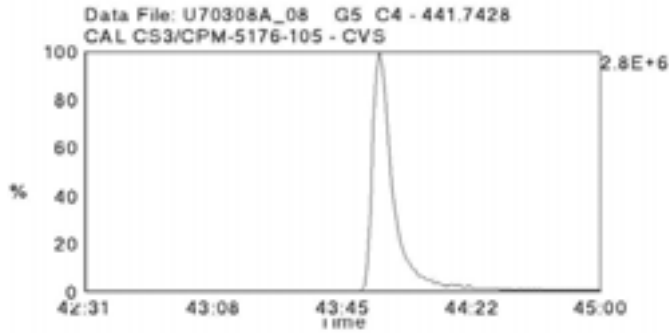
Data File Name: U70308A\_08  
Date Acquired: 3/8/2007  
Sample Description: CAL CS3/CPM-5176-105 - CVS

Lab Sample ID: CS3/CPM-5176-105  
Client Sample ID:  
Instrument: 10MSHR06 (U)



Data File Name: U70308A\_08  
Date Acquired: 3/8/2007  
Sample Description: CAL CS3/CPM-5176-105 - CVS

Lab Sample ID: CS3/CPM-5176-105  
Client Sample ID:  
Instrument: 10MSHR06 (U)





### PCDD/PCDF Detected Peak List

Prepared By \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client Name	ESS Laboratory	Injected By	BAL
Client ID	CS-1	Instrument ID	10MSHR06 (U)
Lab ID	CS1-032406	GC Column ID	US6667215H
Filename	U70127A_11	ICAL Date	01/27/2007
Analyzed	01/27/2007 23:22		

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Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	24:29	7.71e7	9.85e7	1.10e7	1.39e7	----	----	0.78	
2,3,7,8-TCDF	24:31	4.93e5	5.61e5	7.53e4	8.32e4	----	----	0.88	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	24:46	5.70e7	7.18e7	8.37e6	1.05e7	----	----	0.79	
2,3,7,8-TCDD-13C	25:44	5.76e7	7.33e7	7.53e6	9.85e6	----	----	0.79	
2,3,7,8-TCDD-37Cl4	25:47	7.46e5		1.02e5		----	----		
2,3,7,8-TCDD	25:47	3.00e5	3.59e5	4.45e4	6.39e4	----	----	0.83	

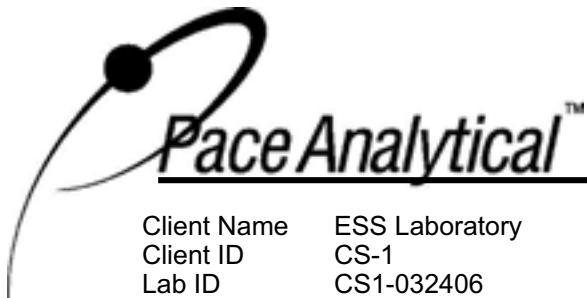
Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	31:42	1.02e8	6.36e7	1.93e7	1.21e7	----	----	1.60	
2,3,4,7,8-PeCDF-13C	33:07	1.03e8	6.42e7	2.29e7	1.42e7	----	----	1.61	
1,2,3,7,8-PeCDF	31:44	2.62e6	1.72e6	5.40e5	3.47e5	----	----	1.52	
2,3,4,7,8-PeCDF	33:08	2.73e6	1.77e6	5.83e5	3.84e5	----	----	1.54	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	33:33	6.39e7	4.05e7	1.44e7	9.23e6	----	----	1.58	
1,2,3,7,8-PeCDD	33:34	1.00e6	1.70e6	2.29e5	3.87e5	----	----	0.59	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:54	4.51e7	8.60e7	1.25e7	2.36e7	----	----	0.52	
1,2,3,6,7,8-HxCDF-13C	37:03	5.71e7	1.05e8	1.34e7	2.51e7	----	----	0.54	
2,3,4,6,7,8-HxCDF-13C	37:44	5.30e7	9.76e7	1.36e7	2.50e7	----	----	0.54	
1,2,3,7,8,9-HxCDF-13C	38:43	4.53e7	8.32e7	1.04e7	1.97e7	----	----	0.54	
1,2,3,4,7,8-HxCDF	36:55	2.25e6	1.81e6	5.98e5	4.97e5	----	----	1.25	
1,2,3,6,7,8-HxCDF	37:04	2.71e6	2.01e6	6.71e5	5.04e5	----	----	1.34	
2,3,4,6,7,8-HxCDF	37:46	2.53e6	2.09e6	6.59e5	5.41e5	----	----	1.21	
1,2,3,7,8,9-HxCDF	38:44	2.14e6	1.62e6	5.21e5	3.97e5	----	----	1.32	

## REPORT OF LABORATORY ANALYSIS

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Client Name	ESS Laboratory	Injected By	BAL
Client ID	CS-1	Instrument ID	10MSHR06 (U)
Lab ID	CS1-032406	GC Column ID	US6667215H
Filename	U70127A_11	ICAL Date	01/27/2007
Analyzed	01/27/2007 23:22		

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:56	5.30e7	4.17e7	1.62e7	1.25e7	----	----	1.27	
1,2,3,6,7,8-HxCDD-13C	38:03	6.72e7	5.33e7	1.70e7	1.37e7	----	----	1.26	
1,2,3,7,8,9-HxCDD-13C	38:21	6.13e7	4.86e7	1.44e7	1.14e7	----	----	1.26	
1,2,3,4,7,8-HxCDD	37:57	1.42e6	1.16e6	4.33e5	3.51e5	----	----	1.22	
1,2,3,6,7,8-HxCDD	38:04	1.65e6	1.34e6	4.05e5	3.66e5	----	----	1.23	
1,2,3,7,8,9-HxCDD	38:22	1.57e6	1.19e6	3.78e5	3.01e5	----	----	1.32	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	40:21	3.30e7	7.49e7	8.99e6	1.98e7	----	----	0.44	
1,2,3,4,7,8,9-HpCDF-13C	41:60	3.01e7	6.77e7	7.84e6	1.68e7	----	----	0.44	
1,2,3,4,6,7,8-HpCDF	40:22	1.99e6	1.95e6	5.21e5	5.30e5	----	----	1.02	
1,2,3,4,7,8,9-HpCDF	42:01	1.61e6	1.53e6	4.04e5	3.96e5	----	----	1.05	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	41:29	4.06e7	3.70e7	1.02e7	9.49e6	----	----	1.10	
1,2,3,4,6,7,8-HpCDD	41:29	1.19e6	1.11e6	3.31e5	2.84e5	----	----	1.07	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:38	2.78e6	2.84e6	6.13e5	6.65e5	----	----	0.98	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:26	7.22e7	7.92e7	1.47e7	1.67e7	----	----	0.91	
OCDD	44:27	1.98e6	2.21e6	4.56e5	4.66e5	----	----	0.90	

## REPORT OF LABORATORY ANALYSIS

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### PCDD/PCDF Detected Peak List

Prepared By \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client Name	ESS Laboratory	Injected By	BAL
Client ID	CS-2	Instrument ID	10MSHR06 (U)
Lab ID	CS2-032406	GC Column ID	US6667215H
Filename	U70127A_10	ICAL Date	01/27/2007
Analyzed	01/27/2007 22:33		

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Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	24:28	8.43e7	1.06e8	1.19e7	1.49e7	----	----	0.79	
2,3,7,8-TCDF	24:30	2.00e6	2.52e6	2.94e5	3.59e5	----	----	0.79	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	24:46	6.26e7	7.90e7	8.81e6	1.12e7	----	----	0.79	
2,3,7,8-TCDD-13C	25:44	6.26e7	7.96e7	8.25e6	1.09e7	----	----	0.79	
2,3,7,8-TCDD-37Cl4	25:46	3.11e6		4.41e5		----	----		
2,3,7,8-TCDD	25:46	1.30e6	1.61e6	1.82e5	2.08e5	----	----	0.81	

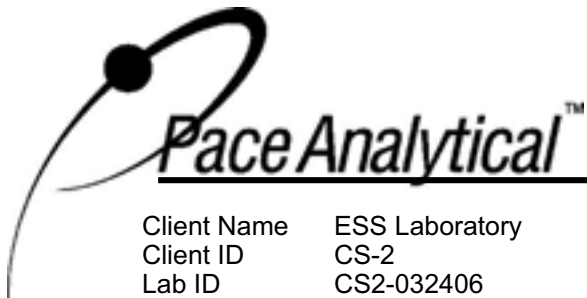
Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	31:42	1.11e8	6.95e7	2.13e7	1.32e7	----	----	1.59	
2,3,4,7,8-PeCDF-13C	33:07	1.12e8	7.02e7	2.50e7	1.50e7	----	----	1.60	
1,2,3,7,8-PeCDF	31:43	1.12e7	7.46e6	2.33e6	1.43e6	----	----	1.50	
2,3,4,7,8-PeCDF	33:08	1.22e7	7.67e6	2.68e6	1.66e6	----	----	1.59	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	33:32	6.92e7	4.43e7	1.50e7	9.57e6	----	----	1.56	
1,2,3,7,8-PeCDD	33:34	4.46e6	7.51e6	9.50e5	1.69e6	----	----	0.59	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:53	4.80e7	9.32e7	1.34e7	2.54e7	----	----	0.52	
1,2,3,6,7,8-HxCDF-13C	37:03	6.17e7	1.17e8	1.46e7	2.81e7	----	----	0.53	
2,3,4,6,7,8-HxCDF-13C	37:44	5.78e7	1.08e8	1.49e7	2.80e7	----	----	0.53	
1,2,3,7,8,9-HxCDF-13C	38:43	4.94e7	9.15e7	1.19e7	2.25e7	----	----	0.54	
1,2,3,4,7,8-HxCDF	36:55	9.82e6	7.83e6	2.69e6	2.16e6	----	----	1.25	
1,2,3,6,7,8-HxCDF	37:04	1.13e7	9.38e6	2.73e6	2.20e6	----	----	1.20	
2,3,4,6,7,8-HxCDF	37:45	1.11e7	8.47e6	2.87e6	2.27e6	----	----	1.31	
1,2,3,7,8,9-HxCDF	38:44	9.08e6	7.26e6	2.31e6	1.87e6	----	----	1.25	

## REPORT OF LABORATORY ANALYSIS

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Client Name	ESS Laboratory	Injected By	BAL
Client ID	CS-2	Instrument ID	10MSHR06 (U)
Lab ID	CS2-032406	GC Column ID	US6667215H
Filename	U70127A_10	ICAL Date	01/27/2007
Analyzed	01/27/2007 22:33		

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:55	5.86e7	4.67e7	1.66e7	1.32e7	----	----	1.26	
1,2,3,6,7,8-HxCDD-13C	38:02	7.32e7	5.89e7	1.82e7	1.47e7	----	----	1.24	
1,2,3,7,8,9-HxCDD-13C	38:21	6.89e7	5.49e7	1.58e7	1.31e7	----	----	1.25	
1,2,3,4,7,8-HxCDD	37:56	6.43e6	5.04e6	1.73e6	1.44e6	----	----	1.27	
1,2,3,6,7,8-HxCDD	38:03	7.23e6	6.05e6	1.83e6	1.51e6	----	----	1.19	
1,2,3,7,8,9-HxCDD	38:21	6.96e6	5.60e6	1.71e6	1.34e6	----	----	1.24	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	40:20	3.76e7	8.28e7	9.82e6	2.14e7	----	----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	41:60	3.46e7	7.49e7	8.68e6	1.90e7	----	----	0.46	
1,2,3,4,6,7,8-HpCDF	40:21	8.38e6	8.26e6	2.32e6	2.18e6	----	----	1.01	
1,2,3,4,7,8,9-HpCDF	41:60	7.21e6	6.73e6	1.74e6	1.73e6	----	----	1.07	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	41:29	4.36e7	3.99e7	1.10e7	1.06e7	----	----	1.09	
1,2,3,4,6,7,8-HpCDD	41:29	5.23e6	4.84e6	1.34e6	1.29e6	----	----	1.08	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:38	1.18e7	1.28e7	2.59e6	2.91e6	----	----	0.92	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:26	8.00e7	8.89e7	1.68e7	1.86e7	----	----	0.90	
OCDD	44:26	8.98e6	9.75e6	2.04e6	2.10e6	----	----	0.92	

## REPORT OF LABORATORY ANALYSIS

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### PCDD/PCDF Detected Peak List

Prepared By \_\_\_\_\_ Date \_\_\_\_\_

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client Name ESS Laboratory  
Client ID  
Lab ID CS3/CPM-5176-105  
Filename U70127A\_09  
Analyzed 01/27/2007 21:44

Injected By BAL  
Instrument ID 10MSHR06 (U)  
GC Column ID US6667215H  
ICAL Date 01/27/2007

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Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	24:28	1.50e8	1.89e8	2.20e7	2.76e7	----	----	0.79	
2,3,7,8-TCDF	24:30	1.69e7	2.16e7	2.43e6	3.07e6	----	----	0.78	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	24:46	1.10e8	1.39e8	1.58e7	2.00e7	----	----	0.79	
2,3,7,8-TCDD-13C	25:44	1.12e8	1.41e8	1.49e7	1.86e7	----	----	0.79	
2,3,7,8-TCDD-37Cl4	25:47	2.65e7		3.63e6		----	----		
2,3,7,8-TCDD	25:47	1.11e7	1.49e7	1.55e6	1.98e6	----	----	0.74	

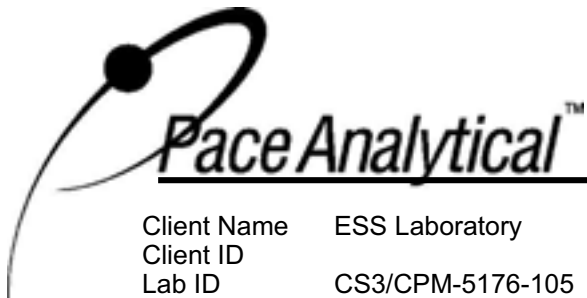
Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	31:42	1.99e8	1.25e8	3.99e7	2.39e7	----	----	1.60	
2,3,4,7,8-PeCDF-13C	33:07	2.11e8	1.32e8	4.64e7	2.96e7	----	----	1.59	
1,2,3,7,8-PeCDF	31:44	1.01e8	6.52e7	1.93e7	1.27e7	----	----	1.55	
2,3,4,7,8-PeCDF	33:09	1.09e8	7.06e7	2.44e7	1.55e7	----	----	1.55	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	33:33	1.26e8	8.03e7	2.78e7	1.74e7	----	----	1.57	
1,2,3,7,8-PeCDD	33:35	4.09e7	6.68e7	9.24e6	1.44e7	----	----	0.61	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:54	8.82e7	1.70e8	2.39e7	4.62e7	----	----	0.52	
1,2,3,6,7,8-HxCDF-13C	37:03	1.13e8	2.11e8	2.70e7	4.92e7	----	----	0.53	
2,3,4,6,7,8-HxCDF-13C	37:45	1.05e8	1.99e8	2.69e7	4.99e7	----	----	0.53	
1,2,3,7,8,9-HxCDF-13C	38:44	8.69e7	1.63e8	2.04e7	3.86e7	----	----	0.53	
1,2,3,4,7,8-HxCDF	36:55	8.69e7	6.86e7	2.32e7	1.81e7	----	----	1.27	
1,2,3,6,7,8-HxCDF	37:04	1.05e8	8.21e7	2.58e7	2.09e7	----	----	1.27	
2,3,4,6,7,8-HxCDF	37:46	9.65e7	7.44e7	2.66e7	2.05e7	----	----	1.30	
1,2,3,7,8,9-HxCDF	38:45	8.13e7	6.36e7	1.89e7	1.44e7	----	----	1.28	

## REPORT OF LABORATORY ANALYSIS

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Client Name	ESS Laboratory	Injected By	BAL
Client ID		Instrument ID	10MSHR06 (U)
Lab ID	CS3/CPM-5176-105	GC Column ID	US6667215H
Filename	U70127A_09	ICAL Date	01/27/2007
Analyzed	01/27/2007 21:44		

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:56	1.05e8	8.37e7	3.16e7	2.48e7	----	----	1.26	
1,2,3,6,7,8-HxCDD-13C	38:03	1.35e8	1.07e8	3.50e7	2.78e7	----	----	1.27	
1,2,3,7,8,9-HxCDD-13C	38:21	1.21e8	1.01e8	2.91e7	2.31e7	----	----	1.20	
1,2,3,4,7,8-HxCDD	37:57	5.54e7	4.42e7	1.65e7	1.30e7	----	----	1.25	
1,2,3,6,7,8-HxCDD	38:04	6.55e7	5.22e7	1.71e7	1.32e7	----	----	1.25	
1,2,3,7,8,9-HxCDD	38:22	6.17e7	4.96e7	1.53e7	1.19e7	----	----	1.24	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	40:21	6.64e7	1.46e8	1.82e7	3.98e7	----	----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	41:60	6.05e7	1.34e8	1.64e7	3.49e7	----	----	0.45	
1,2,3,4,6,7,8-HpCDF	40:22	7.54e7	7.20e7	2.07e7	1.96e7	----	----	1.05	
1,2,3,4,7,8,9-HpCDF	42:01	6.03e7	5.88e7	1.55e7	1.47e7	----	----	1.03	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	41:29	8.19e7	7.60e7	2.20e7	2.02e7	----	----	1.08	
1,2,3,4,6,7,8-HpCDD	41:29	4.66e7	4.43e7	1.22e7	1.13e7	----	----	1.05	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:39	9.82e7	1.08e8	2.14e7	2.38e7	----	----	0.91	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:26	1.42e8	1.60e8	2.99e7	3.30e7	----	----	0.89	
OCDD	44:27	7.59e7	8.55e7	1.65e7	1.78e7	----	----	0.89	

## REPORT OF LABORATORY ANALYSIS

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**PCDD/PCDF Detected Peak List**

Prepared By \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client Name	ESS Laboratory	Injected By	BAL
Client ID	CS-4	Instrument ID	10MSHR06 (U)
Lab ID	CS4-032406	GC Column ID	US6667215H
Filename	U70127A_13	ICAL Date	01/27/2007
Analyzed	01/28/2007 01:00		

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	24:28	8.72e7	1.10e8	1.20e7	1.50e7	----	----	0.79	
2,3,7,8-TCDF	24:30	3.99e7	5.11e7	5.56e6	7.11e6	----	----	0.78	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	24:46	6.54e7	8.23e7	9.16e6	1.19e7	----	----	0.80	
2,3,7,8-TCDD-13C	25:44	6.65e7	8.36e7	9.29e6	1.15e7	----	----	0.80	
2,3,7,8-TCDD-37Cl4	25:46	6.29e7		8.37e6		----	----		
2,3,7,8-TCDD	25:46	2.63e7	3.36e7	3.47e6	4.44e6	----	----	0.78	

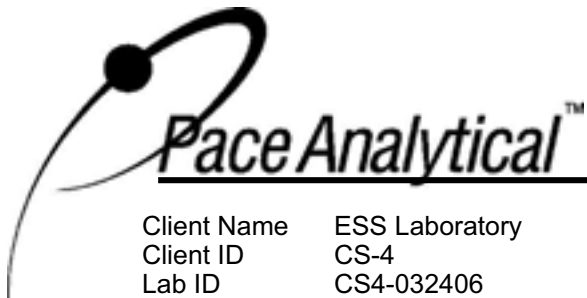
Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	31:42	1.14e8	7.22e7	2.23e7	1.40e7	----	----	1.58	
2,3,4,7,8-PeCDF-13C	33:07	1.19e8	7.43e7	2.43e7	1.52e7	----	----	1.60	
1,2,3,7,8-PeCDF	31:43	2.45e8	1.56e8	4.64e7	2.96e7	----	----	1.57	
2,3,4,7,8-PeCDF	33:08	2.56e8	1.65e8	5.47e7	3.54e7	----	----	1.55	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	33:32	7.37e7	4.59e7	1.56e7	9.65e6	----	----	1.60	
1,2,3,7,8-PeCDD	33:34	9.50e7	1.54e8	2.08e7	3.26e7	----	----	0.62	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:53	5.02e7	9.34e7	1.31e7	2.40e7	----	----	0.54	
1,2,3,6,7,8-HxCDF-13C	37:03	6.78e7	1.25e8	1.49e7	2.80e7	----	----	0.54	
2,3,4,6,7,8-HxCDF-13C	37:44	6.06e7	1.13e8	1.46e7	2.78e7	----	----	0.53	
1,2,3,7,8,9-HxCDF-13C	38:43	5.17e7	9.41e7	1.13e7	2.09e7	----	----	0.55	
1,2,3,4,7,8-HxCDF	36:55	2.03e8	1.56e8	5.23e7	4.19e7	----	----	1.30	
1,2,3,6,7,8-HxCDF	37:04	2.55e8	2.04e8	5.73e7	4.48e7	----	----	1.25	
2,3,4,6,7,8-HxCDF	37:45	2.33e8	1.89e8	5.48e7	4.46e7	----	----	1.23	
1,2,3,7,8,9-HxCDF	38:44	1.93e8	1.51e8	4.28e7	3.45e7	----	----	1.28	

**REPORT OF LABORATORY ANALYSIS**

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Client Name	ESS Laboratory	Injected By	BAL
Client ID	CS-4	Instrument ID	10MSHR06 (U)
Lab ID	CS4-032406	GC Column ID	US6667215H
Filename	U70127A_13	ICAL Date	01/27/2007
Analyzed	01/28/2007 01:00		

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:55	6.08e7	4.81e7	1.64e7	1.32e7	----	----	1.26	
1,2,3,6,7,8-HxCDD-13C	38:03	7.97e7	6.34e7	1.85e7	1.47e7	----	----	1.26	
1,2,3,7,8,9-HxCDD-13C	38:21	7.21e7	5.77e7	1.58e7	1.24e7	----	----	1.25	
1,2,3,4,7,8-HxCDD	37:56	1.28e8	1.02e8	3.55e7	2.90e7	----	----	1.25	
1,2,3,6,7,8-HxCDD	38:04	1.56e8	1.25e8	3.56e7	2.79e7	----	----	1.25	
1,2,3,7,8,9-HxCDD	38:22	1.54e8	1.23e8	3.24e7	2.60e7	----	----	1.25	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	40:21	3.97e7	8.57e7	9.35e6	2.03e7	----	----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	41:60	3.58e7	7.89e7	7.98e6	1.81e7	----	----	0.45	
1,2,3,4,6,7,8-HpCDF	40:21	1.75e8	1.70e8	4.30e7	4.32e7	----	----	1.03	
1,2,3,4,7,8,9-HpCDF	41:60	1.40e8	1.38e8	3.38e7	3.36e7	----	----	1.02	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	41:29	4.54e7	4.41e7	1.09e7	1.03e7	----	----	1.03	
1,2,3,4,6,7,8-HpCDD	41:29	1.12e8	1.03e8	2.65e7	2.46e7	----	----	1.08	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:38	2.63e8	2.79e8	5.06e7	5.49e7	----	----	0.94	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:26	8.59e7	9.45e7	1.67e7	1.83e7	----	----	0.91	
OCDD	44:27	1.95e8	2.19e8	3.57e7	4.08e7	----	----	0.89	

## REPORT OF LABORATORY ANALYSIS

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**PCDD/PCDF Detected Peak List**

Prepared By \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client Name	ESS Laboratory	Injected By	BAL
Client ID	CS-5	Instrument ID	10MSHR06 (U)
Lab ID	CS5-032406	GC Column ID	US6667215H
Filename	U70127A_12	ICAL Date	01/27/2007
Analyzed	01/28/2007 00:11		

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	24:28	8.82e7	1.13e8	1.28e7	1.65e7	----	----	0.78	
2,3,7,8-TCDF	24:30	2.04e8	2.61e8	2.96e7	3.71e7	----	----	0.78	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	24:46	6.48e7	8.24e7	9.35e6	1.20e7	----	----	0.79	
2,3,7,8-TCDD-13C	25:44	6.88e7	8.60e7	9.06e6	1.14e7	----	----	0.80	
2,3,7,8-TCDD-37Cl4	25:47	3.29e8		4.50e7		----	----		
2,3,7,8-TCDD	25:47	1.33e8	1.71e8	1.79e7	2.30e7	----	----	0.78	

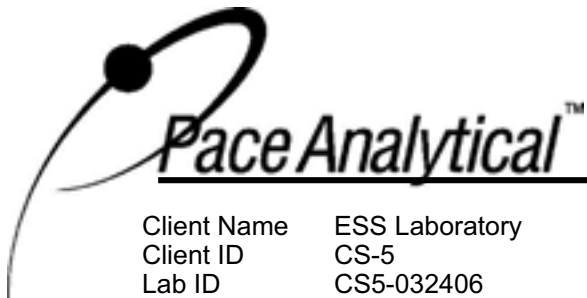
Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	31:42	1.27e8	7.93e7	2.45e7	1.51e7	----	----	1.61	
2,3,4,7,8-PeCDF-13C	33:07	1.29e8	8.01e7	2.63e7	1.66e7	----	----	1.61	
1,2,3,7,8-PeCDF	31:44	1.31e9	8.43e8	2.63e8	1.67e8	----	----	1.56	
2,3,4,7,8-PeCDF	33:08	1.38e9	8.85e8	2.93e8	1.86e8	----	----	1.56	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	33:33	8.05e7	5.07e7	1.69e7	1.07e7	----	----	1.59	
1,2,3,7,8-PeCDD	33:35	5.28e8	8.43e8	1.10e8	1.72e8	----	----	0.63	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:54	5.48e7	1.02e8	1.41e7	2.66e7	----	----	0.53	
1,2,3,6,7,8-HxCDF-13C	37:04	7.42e7	1.35e8	1.57e7	2.90e7	----	----	0.55	
2,3,4,6,7,8-HxCDF-13C	37:45	6.69e7	1.21e8	1.62e7	2.87e7	----	----	0.55	
1,2,3,7,8,9-HxCDF-13C	38:44	5.64e7	1.03e8	1.16e7	2.29e7	----	----	0.55	
1,2,3,4,7,8-HxCDF	36:55	1.08e9	8.61e8	2.87e8	2.30e8	----	----	1.26	
1,2,3,6,7,8-HxCDF	37:04	1.39e9	1.11e9	3.09e8	2.44e8	----	----	1.26	
2,3,4,6,7,8-HxCDF	37:46	1.29e9	9.79e8	3.10e8	2.43e8	----	----	1.32	
1,2,3,7,8,9-HxCDF	38:45	1.06e9	8.33e8	2.30e8	1.79e8	----	----	1.27	

**REPORT OF LABORATORY ANALYSIS**

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Client Name ESS Laboratory  
Client ID CS-5  
Lab ID CS5-032406  
Filename U70127A\_12  
Analyzed 01/28/2007 00:11

Injected By BAL  
Instrument ID 10MSHR06 (U)  
GC Column ID US667215H  
ICAL Date 01/27/2007

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:56	6.55e7	5.17e7	1.91e7	1.50e7	----	----	1.27	
1,2,3,6,7,8-HxCDD-13C	38:03	9.03e7	7.13e7	2.08e7	1.70e7	----	----	1.27	
1,2,3,7,8,9-HxCDD-13C	38:21	7.91e7	6.30e7	1.68e7	1.35e7	----	----	1.26	
1,2,3,4,7,8-HxCDD	37:57	6.88e8	5.49e8	2.07e8	1.65e8	----	----	1.25	
1,2,3,6,7,8-HxCDD	38:04	8.62e8	6.87e8	2.08e8	1.66e8	----	----	1.25	
1,2,3,7,8,9-HxCDD	38:22	7.92e8	6.30e8	1.78e8	1.40e8	----	----	1.26	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	40:21	4.36e7	9.54e7	1.08e7	2.28e7	----	----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	41:60	3.86e7	8.37e7	8.93e6	1.90e7	----	----	0.46	
1,2,3,4,6,7,8-HpCDF	40:22	9.67e8	9.33e8	2.39e8	2.33e8	----	----	1.04	
1,2,3,4,7,8,9-HpCDF	42:01	7.83e8	7.65e8	1.77e8	1.69e8	----	----	1.02	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	41:29	5.10e7	4.72e7	1.20e7	1.11e7	----	----	1.08	
1,2,3,4,6,7,8-HpCDD	41:29	5.80e8	5.62e8	1.34e8	1.27e8	----	----	1.03	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:39	1.39e9	1.51e9	2.69e8	2.98e8	----	----	0.92	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:27	9.27e7	1.03e8	1.76e7	1.96e7	----	----	0.90	
OCDD	44:27	1.04e9	1.16e9	1.95e8	2.18e8	----	----	0.89	

## REPORT OF LABORATORY ANALYSIS

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**PCDD/PCDF Detected Peak List**

Prepared By \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client Name	ESS Laboratory	Injected By	BAL
Client ID	CS-1	Instrument ID	10MSHR09 (P)
Lab ID	CS1-5176-101	GC Column ID	US5455214H
Filename	P70228B_06	ICAL Date	02/28/2007
Analyzed	02/28/2007 17:11		

Page 1

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	23:06	3.11e7	4.06e7	3.57e6	4.61e6	----	----	0.76	
2,3,7,8-TCDF	23:08	1.39e5	1.92e5	2.07e4	2.56e4	----	----	0.72	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	23:17	2.64e7	3.33e7	3.24e6	4.02e6	----	----	0.79	
2,3,7,8-TCDD-13C	24:17	2.53e7	3.31e7	2.77e6	3.60e6	----	----	0.77	
2,3,7,8-TCDD-37Cl4	24:19	2.99e5		3.11e4		----	----		
2,3,7,8-TCDD	24:19	1.09e5	1.55e5	1.23e4	2.16e4	----	----	0.71	

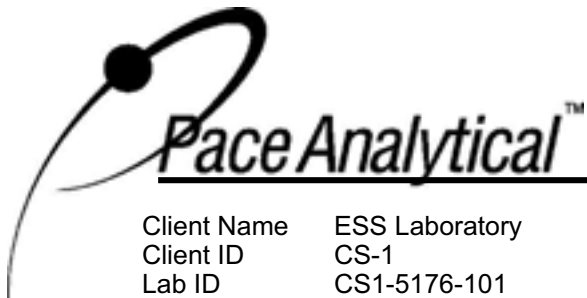
Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	30:48	3.45e7	2.23e7	5.00e6	3.19e6	----	----	1.55	
2,3,4,7,8-PeCDF-13C	32:18	3.49e7	2.21e7	5.95e6	3.79e6	----	----	1.58	
1,2,3,7,8-PeCDF	30:49	6.51e5	4.43e5	1.02e5	6.18e4	----	----	1.47	
2,3,4,7,8-PeCDF	32:19	7.14e5	4.71e5	1.25e5	7.95e4	----	----	1.52	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:45	2.55e7	1.59e7	4.15e6	2.72e6	----	----	1.61	
1,2,3,7,8-PeCDD	32:47	3.53e5	5.78e5	5.78e4	1.05e5	----	----	0.61	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:20	1.36e7	2.72e7	3.03e6	6.04e6	----	----	0.50	
1,2,3,6,7,8-HxCDF-13C	36:29	1.75e7	3.42e7	3.50e6	6.70e6	----	----	0.51	
2,3,4,6,7,8-HxCDF-13C	37:12	1.66e7	3.26e7	3.63e6	6.95e6	----	----	0.51	
1,2,3,7,8,9-HxCDF-13C	38:12	1.37e7	2.68e7	2.74e6	5.43e6	----	----	0.51	
1,2,3,4,7,8-HxCDF	36:21	5.93e5	4.84e5	1.30e5	1.03e5	----	----	1.22	
1,2,3,6,7,8-HxCDF	36:30	6.48e5	5.51e5	1.37e5	1.12e5	----	----	1.18	
2,3,4,6,7,8-HxCDF	37:13	6.98e5	5.39e5	1.51e5	1.11e5	----	----	1.30	
1,2,3,7,8,9-HxCDF	38:13	5.24e5	4.50e5	1.13e5	9.43e4	----	----	1.16	

**REPORT OF LABORATORY ANALYSIS**

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Client Name	ESS Laboratory	Injected By	BAL
Client ID	CS-1	Instrument ID	10MSHR09 (P)
Lab ID	CS1-5176-101	GC Column ID	US5455214H
Filename	P70228B_06	ICAL Date	02/28/2007
Analyzed	02/28/2007 17:11		

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:23	2.17e7	1.73e7	5.21e6	4.10e6	----	----	1.25	
1,2,3,6,7,8-HxCDD-13C	37:30	2.80e7	2.24e7	5.76e6	4.65e6	----	----	1.25	
1,2,3,7,8,9-HxCDD-13C	37:50	2.63e7	2.13e7	5.24e6	4.27e6	----	----	1.23	
1,2,3,4,7,8-HxCDD	37:24	5.23e5	3.92e5	1.19e5	9.44e4	----	----	1.34	
1,2,3,6,7,8-HxCDD	37:31	6.01e5	4.92e5	1.18e5	9.74e4	----	----	1.22	
1,2,3,7,8,9-HxCDD	37:51	5.83e5	4.64e5	1.23e5	9.29e4	----	----	1.26	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	39:56	1.64e7	3.65e7	3.90e6	8.73e6	----	----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	41:34	1.48e7	3.31e7	3.39e6	7.52e6	----	----	0.45	
1,2,3,4,6,7,8-HpCDF	39:57	9.14e5	8.37e5	2.21e5	2.11e5	----	----	1.09	
1,2,3,4,7,8,9-HpCDF	41:35	7.24e5	6.77e5	1.57e5	1.74e5	----	----	1.07	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	41:03	2.44e7	2.29e7	5.59e6	5.32e6	----	----	1.06	
1,2,3,4,6,7,8-HpCDD	41:04	6.79e5	6.43e5	1.69e5	1.57e5	----	----	1.06	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:14	7.51e5	8.67e5	1.59e5	1.90e5	----	----	0.87	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:04	3.75e7	4.28e7	7.73e6	8.82e6	----	----	0.88	
OCDD	44:04	1.01e6	1.12e6	2.08e5	2.43e5	----	----	0.90	

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**PCDD/PCDF Detected Peak List**

Prepared By \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client Name	ESS Laboratory	Injected By	BAL
Client ID	CS-2	Instrument ID	10MSHR09 (P)
Lab ID	CS2-5176-102	GC Column ID	US5455214H
Filename	P70228B_05	ICAL Date	02/28/2007
Analyzed	02/28/2007 16:25		

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Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	23:07	3.63e7	4.70e7	4.41e6	5.61e6	----	----	0.77	
2,3,7,8-TCDF	23:09	6.68e5	9.11e5	8.47e4	1.04e5	----	----	0.73	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	23:19	2.95e7	3.77e7	3.71e6	4.80e6	----	----	0.78	
2,3,7,8-TCDD-13C	24:18	2.94e7	3.80e7	3.37e6	4.30e6	----	----	0.77	
2,3,7,8-TCDD-37Cl4	24:20	1.37e6		1.60e5		----	----		
2,3,7,8-TCDD	24:20	5.41e5	7.46e5	6.85e4	8.16e4	----	----	0.73	

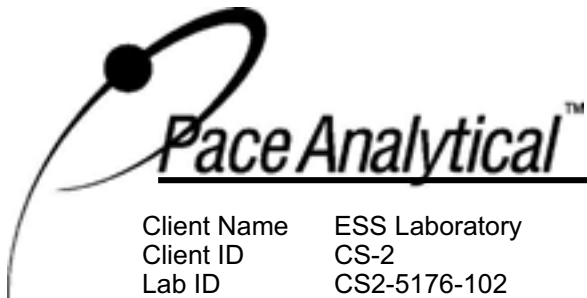
Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	30:48	4.01e7	2.55e7	5.80e6	3.65e6	----	----	1.57	
2,3,4,7,8-PeCDF-13C	32:18	3.99e7	2.56e7	6.78e6	4.26e6	----	----	1.56	
1,2,3,7,8-PeCDF	30:50	3.36e6	2.18e6	5.02e5	3.20e5	----	----	1.54	
2,3,4,7,8-PeCDF	32:19	3.44e6	2.38e6	5.50e5	3.88e5	----	----	1.45	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:46	2.88e7	1.83e7	4.68e6	3.07e6	----	----	1.57	
1,2,3,7,8-PeCDD	32:47	1.71e6	2.86e6	2.91e5	4.65e5	----	----	0.60	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:20	1.57e7	3.12e7	3.56e6	6.83e6	----	----	0.50	
1,2,3,6,7,8-HxCDF-13C	36:29	1.98e7	3.97e7	4.00e6	7.92e6	----	----	0.50	
2,3,4,6,7,8-HxCDF-13C	37:12	1.87e7	3.77e7	4.15e6	8.28e6	----	----	0.49	
1,2,3,7,8,9-HxCDF-13C	38:12	1.60e7	3.18e7	3.24e6	6.51e6	----	----	0.50	
1,2,3,4,7,8-HxCDF	36:21	2.79e6	2.28e6	6.31e5	5.12e5	----	----	1.22	
1,2,3,6,7,8-HxCDF	36:30	3.36e6	2.77e6	6.53e5	5.71e5	----	----	1.21	
2,3,4,6,7,8-HxCDF	37:13	3.20e6	2.66e6	7.02e5	5.64e5	----	----	1.20	
1,2,3,7,8,9-HxCDF	38:13	2.74e6	2.21e6	5.56e5	4.52e5	----	----	1.24	

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Client Name	ESS Laboratory	Injected By	BAL
Client ID	CS-2	Instrument ID	10MSHR09 (P)
Lab ID	CS2-5176-102	GC Column ID	US5455214H
Filename	P70228B_05	ICAL Date	02/28/2007
Analyzed	02/28/2007 16:25		

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:23	2.44e7	1.97e7	5.98e6	4.68e6	----	----	1.24	
1,2,3,6,7,8-HxCDD-13C	37:30	3.17e7	2.56e7	6.69e6	5.46e6	----	----	1.24	
1,2,3,7,8,9-HxCDD-13C	37:50	2.97e7	2.47e7	6.08e6	4.96e6	----	----	1.20	
1,2,3,4,7,8-HxCDD	37:24	2.39e6	2.01e6	6.14e5	5.00e5	----	----	1.19	
1,2,3,6,7,8-HxCDD	37:31	2.97e6	2.44e6	6.24e5	5.10e5	----	----	1.22	
1,2,3,7,8,9-HxCDD	37:51	2.86e6	2.34e6	5.74e5	4.63e5	----	----	1.22	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	39:56	1.86e7	4.22e7	4.29e6	9.63e6	----	----	0.44	
1,2,3,4,7,8,9-HpCDF-13C	41:34	1.79e7	4.03e7	4.13e6	9.18e6	----	----	0.44	
1,2,3,4,6,7,8-HpCDF	39:57	4.40e6	4.17e6	1.03e6	9.77e5	----	----	1.06	
1,2,3,4,7,8,9-HpCDF	41:35	3.71e6	3.59e6	8.61e5	7.96e5	----	----	1.03	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	41:03	2.84e7	2.70e7	6.48e6	6.07e6	----	----	1.05	
1,2,3,4,6,7,8-HpCDD	41:04	3.14e6	2.98e6	7.42e5	6.90e5	----	----	1.05	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:14	4.14e6	4.60e6	8.97e5	1.01e6	----	----	0.90	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:04	4.65e7	5.11e7	9.51e6	1.04e7	----	----	0.91	
OCDD	44:04	4.99e6	5.67e6	1.02e6	1.11e6	----	----	0.88	

## REPORT OF LABORATORY ANALYSIS

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### PCDD/PCDF Detected Peak List

Prepared By \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client Name	ESS Laboratory	Injected By	BAL
Client ID		Instrument ID	10MSHR09 (P)
Lab ID	CS3/CPM-011607	GC Column ID	US5455214H
Filename	P70228B_04	ICAL Date	02/17/2007
Analyzed	02/28/2007 15:28		

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Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	23:09	5.70e7	7.43e7	6.63e6	8.66e6	----	----	0.77	
2,3,7,8-TCDF	23:10	4.79e6	6.54e6	5.31e5	7.76e5	----	----	0.73	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	23:20	4.60e7	5.89e7	5.64e6	7.03e6	----	----	0.78	
2,3,7,8-TCDD-13C	24:19	4.59e7	5.81e7	5.14e6	6.51e6	----	----	0.79	
2,3,7,8-TCDD-37Cl4	24:22	1.06e7		1.17e6		----	----		
2,3,7,8-TCDD	24:21	4.43e6	5.76e6	4.81e5	5.93e5	----	----	0.77	

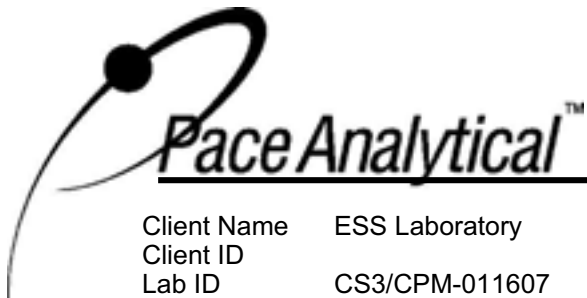
Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	30:49	6.20e7	3.98e7	9.18e6	5.76e6	----	----	1.56	
2,3,4,7,8-PeCDF-13C	32:19	6.29e7	3.94e7	1.04e7	6.56e6	----	----	1.60	
1,2,3,7,8-PeCDF	30:51	2.53e7	1.66e7	3.66e6	2.44e6	----	----	1.52	
2,3,4,7,8-PeCDF	32:20	2.66e7	1.78e7	4.40e6	2.98e6	----	----	1.50	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:47	4.65e7	2.99e7	8.00e6	5.09e6	----	----	1.55	
1,2,3,7,8-PeCDD	32:48	1.29e7	2.12e7	2.22e6	3.62e6	----	----	0.61	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:21	2.47e7	4.93e7	5.49e6	1.09e7	----	----	0.50	
1,2,3,6,7,8-HxCDF-13C	36:30	3.18e7	6.26e7	6.03e6	1.19e7	----	----	0.51	
2,3,4,6,7,8-HxCDF-13C	37:13	2.94e7	5.85e7	6.23e6	1.24e7	----	----	0.50	
1,2,3,7,8,9-HxCDF-13C	38:13	2.54e7	4.95e7	5.03e6	9.79e6	----	----	0.51	
1,2,3,4,7,8-HxCDF	36:23	2.09e7	1.68e7	4.53e6	3.74e6	----	----	1.25	
1,2,3,6,7,8-HxCDF	36:31	2.39e7	2.08e7	4.62e6	3.93e6	----	----	1.15	
2,3,4,6,7,8-HxCDF	37:14	2.29e7	1.91e7	4.83e6	4.05e6	----	----	1.20	
1,2,3,7,8,9-HxCDF	38:15	2.01e7	1.64e7	4.01e6	3.33e6	----	----	1.23	

## REPORT OF LABORATORY ANALYSIS

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Client Name	ESS Laboratory	Injected By	BAL
Client ID		Instrument ID	10MSHR09 (P)
Lab ID	CS3/CPM-011607	GC Column ID	US5455214H
Filename	P70228B_04	ICAL Date	02/17/2007
Analyzed	02/28/2007 15:28		

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:24	3.94e7	3.10e7	9.47e6	7.51e6	----	----	1.27	
1,2,3,6,7,8-HxCDD-13C	37:31	5.18e7	4.12e7	1.08e7	8.78e6	----	----	1.26	
1,2,3,7,8,9-HxCDD-13C	37:51	4.72e7	3.84e7	9.03e6	7.44e6	----	----	1.23	
1,2,3,4,7,8-HxCDD	37:25	1.80e7	1.44e7	4.45e6	3.48e6	----	----	1.25	
1,2,3,6,7,8-HxCDD	37:32	2.25e7	1.80e7	4.32e6	3.49e6	----	----	1.25	
1,2,3,7,8,9-HxCDD	37:52	2.08e7	1.69e7	4.13e6	3.36e6	----	----	1.23	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	39:57	3.10e7	6.78e7	6.95e6	1.54e7	----	----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	41:35	2.90e7	6.41e7	6.37e6	1.41e7	----	----	0.45	
1,2,3,4,6,7,8-HpCDF	39:58	3.22e7	3.20e7	7.39e6	7.34e6	----	----	1.01	
1,2,3,4,7,8,9-HpCDF	41:36	2.68e7	2.52e7	6.01e6	5.66e6	----	----	1.06	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	41:05	4.58e7	4.30e7	9.83e6	9.53e6	----	----	1.06	
1,2,3,4,6,7,8-HpCDD	41:05	2.32e7	2.27e7	5.16e6	5.08e6	----	----	1.02	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:15	3.27e7	3.71e7	6.53e6	7.27e6	----	----	0.88	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:05	7.42e7	8.37e7	1.46e7	1.62e7	----	----	0.89	
OCDD	44:05	3.62e7	4.14e7	7.06e6	8.06e6	----	----	0.87	

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### PCDD/PCDF Detected Peak List

Prepared By \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client Name ESS Laboratory  
Client ID CS-4  
Lab ID CS4-5176-103  
Filename P70228B\_08  
Analyzed 02/28/2007 18:47

Injected By BAL  
Instrument ID 10MSHR09 (P)  
GC Column ID US5455214H  
ICAL Date 02/28/2007

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Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	23:04	3.12e7	4.02e7	3.84e6	4.93e6	----	----	0.78	
2,3,7,8-TCDF	23:06	1.17e7	1.58e7	1.44e6	1.91e6	----	----	0.74	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	23:16	2.58e7	3.30e7	3.27e6	4.12e6	----	----	0.78	
2,3,7,8-TCDD-13C	24:15	2.59e7	3.33e7	2.95e6	3.71e6	----	----	0.78	
2,3,7,8-TCDD-37Cl4	24:17	2.50e7		2.75e6		----	----		
2,3,7,8-TCDD	24:17	9.54e6	1.23e7	1.07e6	1.37e6	----	----	0.78	

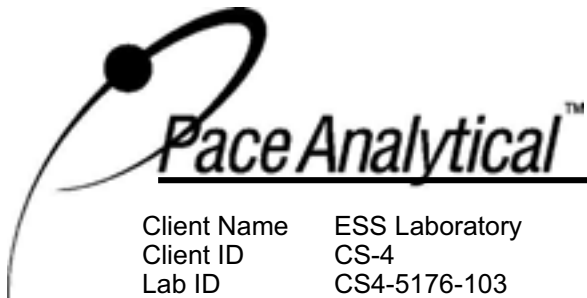
Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	30:46	3.51e7	2.26e7	5.30e6	3.42e6	----	----	1.55	
2,3,4,7,8-PeCDF-13C	32:16	3.51e7	2.21e7	6.31e6	4.03e6	----	----	1.59	
1,2,3,7,8-PeCDF	30:48	5.98e7	3.96e7	8.95e6	6.02e6	----	----	1.51	
2,3,4,7,8-PeCDF	32:18	6.40e7	4.18e7	1.10e7	7.27e6	----	----	1.53	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:43	2.53e7	1.61e7	4.41e6	2.91e6	----	----	1.57	
1,2,3,7,8-PeCDD	32:45	3.12e7	5.13e7	5.41e6	8.90e6	----	----	0.61	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:18	1.36e7	2.69e7	3.19e6	6.19e6	----	----	0.51	
1,2,3,6,7,8-HxCDF-13C	36:27	1.73e7	3.32e7	3.58e6	7.01e6	----	----	0.52	
2,3,4,6,7,8-HxCDF-13C	37:11	1.61e7	3.13e7	3.71e6	7.24e6	----	----	0.52	
1,2,3,7,8,9-HxCDF-13C	38:11	1.39e7	2.79e7	3.00e6	6.00e6	----	----	0.50	
1,2,3,4,7,8-HxCDF	36:20	4.94e7	4.09e7	1.18e7	9.82e6	----	----	1.21	
1,2,3,6,7,8-HxCDF	36:29	5.70e7	4.74e7	1.15e7	9.61e6	----	----	1.20	
2,3,4,6,7,8-HxCDF	37:12	5.64e7	4.70e7	1.32e7	1.09e7	----	----	1.20	
1,2,3,7,8,9-HxCDF	38:12	4.99e7	4.16e7	1.04e7	8.48e6	----	----	1.20	

## REPORT OF LABORATORY ANALYSIS

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Client Name	ESS Laboratory	Injected By	BAL
Client ID	CS-4	Instrument ID	10MSHR09 (P)
Lab ID	CS4-5176-103	GC Column ID	US5455214H
Filename	P70228B_08	ICAL Date	02/28/2007
Analyzed	02/28/2007 18:47		

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:22	2.27e7	1.82e7	5.75e6	4.65e6	----	----	1.25	
1,2,3,6,7,8-HxCDD-13C	37:29	2.71e7	2.17e7	5.94e6	4.79e6	----	----	1.25	
1,2,3,7,8,9-HxCDD-13C	37:49	2.60e7	2.11e7	5.71e6	4.55e6	----	----	1.23	
1,2,3,4,7,8-HxCDD	37:23	4.51e7	3.61e7	1.11e7	9.03e6	----	----	1.25	
1,2,3,6,7,8-HxCDD	37:30	5.10e7	4.07e7	1.12e7	9.00e6	----	----	1.25	
1,2,3,7,8,9-HxCDD	37:50	5.09e7	4.02e7	1.08e7	8.63e6	----	----	1.27	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	39:55	1.62e7	3.64e7	4.04e6	8.81e6	----	----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	41:33	1.56e7	3.54e7	3.69e6	8.31e6	----	----	0.44	
1,2,3,4,6,7,8-HpCDF	39:56	7.69e7	7.53e7	1.94e7	1.89e7	----	----	1.02	
1,2,3,4,7,8,9-HpCDF	41:34	6.71e7	6.49e7	1.56e7	1.48e7	----	----	1.03	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	41:03	2.41e7	2.26e7	6.07e6	5.68e6	----	----	1.07	
1,2,3,4,6,7,8-HpCDD	41:03	5.67e7	5.43e7	1.38e7	1.32e7	----	----	1.04	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:12	9.60e7	1.08e8	2.13e7	2.33e7	----	----	0.89	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:03	4.44e7	4.96e7	9.48e6	1.06e7	----	----	0.89	
OCDD	44:03	9.90e7	1.13e8	2.10e7	2.39e7	----	----	0.88	

## REPORT OF LABORATORY ANALYSIS

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### PCDD/PCDF Detected Peak List

Prepared By \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client Name	ESS Laboratory	Injected By	BAL
Client ID	CS-5	Instrument ID	10MSHR09 (P)
Lab ID	CS5-5176-104	GC Column ID	US5455214H
Filename	P70228B_07	ICAL Date	02/28/2007
Analyzed	02/28/2007 17:59		

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Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	23:05	3.51e7	4.57e7	4.56e6	5.79e6	----	----	0.77	
2,3,7,8-TCDF	23:07	6.41e7	8.50e7	7.92e6	1.03e7	----	----	0.75	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	23:17	2.81e7	3.64e7	3.45e6	4.40e6	----	----	0.77	
2,3,7,8-TCDD-13C	24:16	2.88e7	3.71e7	3.44e6	4.35e6	----	----	0.78	
2,3,7,8-TCDD-37Cl4	24:18	1.37e8		1.62e7		----	----		
2,3,7,8-TCDD	24:18	5.34e7	7.00e7	6.30e6	8.24e6	----	----	0.76	

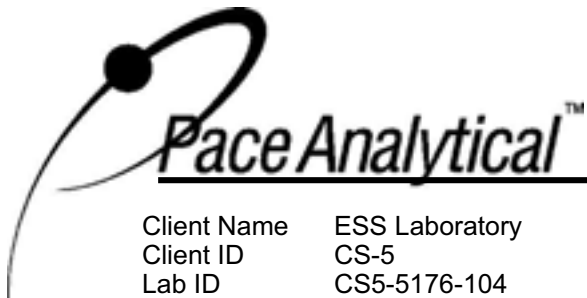
Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	30:47	4.15e7	2.69e7	6.67e6	4.34e6	----	----	1.54	
2,3,4,7,8-PeCDF-13C	32:17	4.16e7	2.69e7	7.70e6	4.88e6	----	----	1.55	
1,2,3,7,8-PeCDF	30:48	3.35e8	2.27e8	5.24e7	3.59e7	----	----	1.48	
2,3,4,7,8-PeCDF	32:18	3.53e8	2.32e8	6.30e7	4.16e7	----	----	1.52	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:44	3.01e7	1.89e7	5.59e6	3.44e6	----	----	1.59	
1,2,3,7,8-PeCDD	32:46	1.73e8	2.86e8	3.23e7	5.21e7	----	----	0.61	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:19	1.66e7	3.28e7	4.12e6	8.07e6	----	----	0.51	
1,2,3,6,7,8-HxCDF-13C	36:28	2.06e7	4.03e7	4.58e6	8.74e6	----	----	0.51	
2,3,4,6,7,8-HxCDF-13C	37:11	1.95e7	3.79e7	4.69e6	9.22e6	----	----	0.51	
1,2,3,7,8,9-HxCDF-13C	38:11	1.72e7	3.42e7	3.85e6	7.57e6	----	----	0.50	
1,2,3,4,7,8-HxCDF	36:20	2.83e8	2.30e8	6.51e7	5.46e7	----	----	1.23	
1,2,3,6,7,8-HxCDF	36:29	3.22e8	2.71e8	6.73e7	5.65e7	----	----	1.19	
2,3,4,6,7,8-HxCDF	37:12	3.06e8	2.54e8	6.86e7	5.75e7	----	----	1.21	
1,2,3,7,8,9-HxCDF	38:12	2.75e8	2.26e8	5.92e7	4.93e7	----	----	1.22	

## REPORT OF LABORATORY ANALYSIS

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Client Name	ESS Laboratory	Injected By	BAL
Client ID	CS-5	Instrument ID	10MSHR09 (P)
Lab ID	CS5-5176-104	GC Column ID	US5455214H
Filename	P70228B_07	ICAL Date	02/28/2007
Analyzed	02/28/2007 17:59		

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:23	2.64e7	2.10e7	7.16e6	5.69e6	----	----	1.26	
1,2,3,6,7,8-HxCDD-13C	37:29	3.27e7	2.62e7	7.19e6	5.66e6	----	----	1.25	
1,2,3,7,8,9-HxCDD-13C	37:50	3.05e7	2.43e7	7.21e6	5.57e6	----	----	1.26	
1,2,3,4,7,8-HxCDD	37:24	2.51e8	1.95e8	6.39e7	5.32e7	----	----	1.29	
1,2,3,6,7,8-HxCDD	37:31	2.71e8	2.31e8	6.31e7	5.01e7	----	----	1.18	
1,2,3,7,8,9-HxCDD	37:50	2.70e8	2.23e8	6.09e7	4.85e7	----	----	1.21	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	39:56	2.02e7	4.57e7	5.28e6	1.14e7	----	----	0.44	
1,2,3,4,7,8,9-HpCDF-13C	41:34	2.04e7	4.61e7	4.92e6	1.07e7	----	----	0.44	
1,2,3,4,6,7,8-HpCDF	39:56	4.31e8	4.25e8	1.05e8	1.05e8	----	----	1.02	
1,2,3,4,7,8,9-HpCDF	41:35	3.85e8	3.76e8	9.03e7	8.75e7	----	----	1.03	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	41:03	3.05e7	2.93e7	8.11e6	7.63e6	----	----	1.04	
1,2,3,4,6,7,8-HpCDD	41:04	3.23e8	3.11e8	7.99e7	7.54e7	----	----	1.04	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:13	5.98e8	6.83e8	1.33e8	1.53e8	----	----	0.88	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	44:03	5.75e7	6.41e7	1.29e7	1.43e7	----	----	0.90	
OCDD	44:04	5.71e8	6.48e8	1.25e8	1.41e8	----	----	0.88	

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### PCDD/PCDF Detected Peak List

Prepared By \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client ID		Injected By	CVS
Lab ID	CS3/CPM-011607	Instrument ID	10MSHR09 (P)
Filename	P70306A_03	GC Column ID	US5455214H
Analyzed	03/06/2007 14:20	ICAL Date	02/28/2007

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Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:53	1.01e8	1.30e8	1.33e7	1.69e7	----	----	0.78	
2,3,7,8-TCDF	22:55	9.81e6	1.28e7	1.27e6	1.64e6	----	----	0.77	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	23:05	8.14e7	1.04e8	1.06e7	1.36e7	----	----	0.78	
2,3,7,8-TCDD-13C	24:03	7.99e7	1.03e8	9.51e6	1.23e7	----	----	0.77	
2,3,7,8-TCDD-37Cl4	24:05	1.81e7		2.11e6		----	----		
2,3,7,8-TCDD	24:05	7.51e6	9.91e6	8.56e5	1.10e6	----	----	0.76	

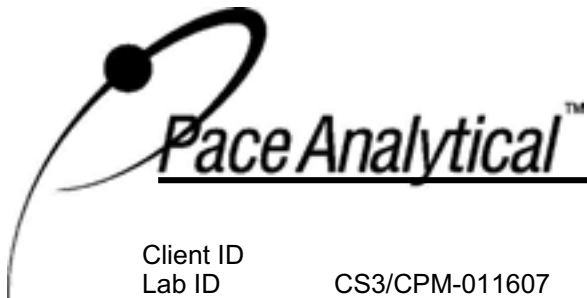
Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	30:37	1.07e8	6.93e7	1.75e7	1.12e7	----	----	1.55	
2,3,4,7,8-PeCDF-13C	32:09	9.73e7	6.25e7	1.81e7	1.20e7	----	----	1.56	
1,2,3,7,8-PeCDF	30:39	4.66e7	2.97e7	7.45e6	4.76e6	----	----	1.57	
2,3,4,7,8-PeCDF	32:10	4.45e7	2.81e7	8.02e6	5.07e6	----	----	1.58	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:37	7.03e7	4.49e7	1.32e7	8.47e6	----	----	1.57	
1,2,3,7,8-PeCDD	32:38	2.04e7	3.34e7	3.78e6	6.13e6	----	----	0.61	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:13	3.75e7	7.29e7	9.20e6	1.77e7	----	----	0.51	
1,2,3,6,7,8-HxCDF-13C	36:22	4.54e7	8.87e7	1.00e7	1.96e7	----	----	0.51	
2,3,4,6,7,8-HxCDF-13C	37:06	4.17e7	7.92e7	1.05e7	2.01e7	----	----	0.53	
1,2,3,7,8,9-HxCDF-13C	38:06	3.56e7	6.89e7	8.46e6	1.63e7	----	----	0.52	
1,2,3,4,7,8-HxCDF	36:14	3.22e7	2.61e7	7.79e6	6.49e6	----	----	1.23	
1,2,3,6,7,8-HxCDF	36:23	3.63e7	2.93e7	8.17e6	6.56e6	----	----	1.24	
2,3,4,6,7,8-HxCDF	37:06	3.33e7	2.72e7	8.28e6	6.77e6	----	----	1.23	
1,2,3,7,8,9-HxCDF	38:07	2.83e7	2.26e7	6.72e6	5.42e6	----	----	1.26	

## REPORT OF LABORATORY ANALYSIS

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Client ID  
Lab ID CS3/CPM-011607  
Filename P70306A\_03  
Analyzed 03/06/2007 14:20

Injected By  
Instrument ID  
GC Column ID  
ICAL Date  
CVS  
10MSHR09 (P)  
US5455214H  
02/28/2007

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:17	5.52e7	4.41e7	1.50e7	1.20e7	----	----	1.25	
1,2,3,6,7,8-HxCDD-13C	37:24	6.55e7	5.30e7	1.58e7	1.32e7	----	----	1.24	
1,2,3,7,8,9-HxCDD-13C	37:44	6.29e7	5.09e7	1.57e7	1.26e7	----	----	1.24	
1,2,3,4,7,8-HxCDD	37:18	2.71e7	2.08e7	7.13e6	5.72e6	----	----	1.30	
1,2,3,6,7,8-HxCDD	37:24	2.77e7	2.25e7	6.84e6	5.52e6	----	----	1.23	
1,2,3,7,8,9-HxCDD	37:45	2.81e7	2.20e7	7.02e6	5.63e6	----	----	1.28	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	39:49	3.84e7	8.48e7	1.08e7	2.36e7	----	----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	41:28	3.42e7	7.79e7	9.72e6	2.18e7	----	----	0.44	
1,2,3,4,6,7,8-HpCDF	39:50	4.08e7	3.95e7	1.12e7	1.10e7	----	----	1.03	
1,2,3,4,7,8,9-HpCDF	41:29	3.24e7	3.13e7	8.86e6	8.60e6	----	----	1.04	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	40:57	5.70e7	5.38e7	1.67e7	1.56e7	----	----	1.06	
1,2,3,4,6,7,8-HpCDD	40:58	2.90e7	2.78e7	8.20e6	7.71e6	----	----	1.04	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:05	3.59e7	4.03e7	9.09e6	1.01e7	----	----	0.89	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:55	7.97e7	9.01e7	2.13e7	2.41e7	----	----	0.88	
OCDD	43:56	4.01e7	4.62e7	1.05e7	1.17e7	----	----	0.87	

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**PCDD/PCDF Detected Peak List**

Prepared By \_\_\_\_\_ Date \_\_\_\_\_  
 Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client ID		Injected By	CVS
Lab ID	CS3/CPM-011607	Instrument ID	10MSHR09 (P)
Filename	P70306A_18	GC Column ID	US5455214H
Analyzed	03/07/2007 02:23	ICAL Date	02/28/2007

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Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:52	1.11e8	1.41e8	1.42e7	1.81e7	----	----	0.78	
2,3,7,8-TCDF	22:53	1.07e7	1.40e7	1.39e6	1.82e6	----	----	0.77	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	23:03	8.99e7	1.14e8	1.19e7	1.50e7	----	----	0.79	
2,3,7,8-TCDD-13C	24:02	8.81e7	1.13e8	1.09e7	1.38e7	----	----	0.78	
2,3,7,8-TCDD-37Cl4	24:03	2.03e7		2.52e6		----	----		
2,3,7,8-TCDD	24:03	8.54e6	1.07e7	1.05e6	1.36e6	----	----	0.80	

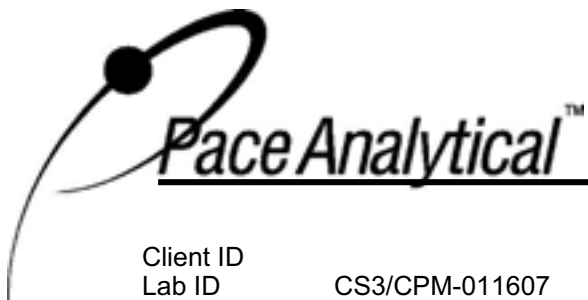
Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	30:35	1.08e8	6.95e7	1.74e7	1.14e7	----	----	1.55	
2,3,4,7,8-PeCDF-13C	32:08	1.04e8	6.73e7	1.97e7	1.29e7	----	----	1.55	
1,2,3,7,8-PeCDF	30:37	4.66e7	3.01e7	7.67e6	4.95e6	----	----	1.55	
2,3,4,7,8-PeCDF	32:09	4.75e7	3.07e7	8.84e6	5.69e6	----	----	1.55	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:35	7.53e7	4.81e7	1.44e7	9.10e6	----	----	1.57	
1,2,3,7,8-PeCDD	32:37	2.17e7	3.57e7	4.13e6	6.66e6	----	----	0.61	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:11	4.32e7	8.31e7	1.11e7	2.10e7	----	----	0.52	
1,2,3,6,7,8-HxCDF-13C	36:20	5.04e7	9.85e7	1.25e7	2.37e7	----	----	0.51	
2,3,4,6,7,8-HxCDF-13C	37:04	4.73e7	9.14e7	1.26e7	2.48e7	----	----	0.52	
1,2,3,7,8,9-HxCDF-13C	38:04	3.99e7	7.74e7	1.01e7	1.96e7	----	----	0.52	
1,2,3,4,7,8-HxCDF	36:13	3.63e7	2.96e7	9.74e6	7.67e6	----	----	1.22	
1,2,3,6,7,8-HxCDF	36:22	4.02e7	3.28e7	9.79e6	8.06e6	----	----	1.23	
2,3,4,6,7,8-HxCDF	37:05	3.78e7	3.07e7	9.39e6	7.84e6	----	----	1.23	
1,2,3,7,8,9-HxCDF	38:05	3.22e7	2.61e7	7.75e6	6.39e6	----	----	1.23	

**REPORT OF LABORATORY ANALYSIS**

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Client ID  
 Lab ID CS3/CPM-011607  
 Filename P70306A\_18  
 Analyzed 03/07/2007 02:23

Injected By  
 Instrument ID  
 GC Column ID  
 ICAL Date  
 CVS  
 10MSHR09 (P)  
 US5455214H  
 02/28/2007

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:15	6.56e7	5.23e7	1.87e7	1.45e7	----	----	1.26	
1,2,3,6,7,8-HxCDD-13C	37:22	7.58e7	6.17e7	1.85e7	1.52e7	----	----	1.23	
1,2,3,7,8,9-HxCDD-13C	37:42	7.23e7	5.87e7	1.86e7	1.47e7	----	----	1.23	
1,2,3,4,7,8-HxCDD	37:16	3.11e7	2.45e7	8.40e6	6.87e6	----	----	1.27	
1,2,3,6,7,8-HxCDD	37:23	3.13e7	2.67e7	7.83e6	6.43e6	----	----	1.17	
1,2,3,7,8,9-HxCDD	37:43	3.16e7	2.62e7	7.94e6	6.54e6	----	----	1.21	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	39:48	4.39e7	9.76e7	1.30e7	2.83e7	----	----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	41:26	3.83e7	8.63e7	1.09e7	2.38e7	----	----	0.44	
1,2,3,4,6,7,8-HpCDF	39:48	4.72e7	4.62e7	1.35e7	1.31e7	----	----	1.02	
1,2,3,4,7,8,9-HpCDF	41:27	3.69e7	3.47e7	1.01e7	9.79e6	----	----	1.06	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	40:56	6.30e7	5.97e7	1.79e7	1.73e7	----	----	1.06	
1,2,3,4,6,7,8-HpCDD	40:57	3.26e7	3.11e7	9.88e6	9.62e6	----	----	1.05	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:04	4.16e7	4.73e7	1.07e7	1.20e7	----	----	0.88	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:53	8.76e7	9.92e7	2.39e7	2.75e7	----	----	0.88	
OCDD	43:54	4.44e7	5.02e7	1.24e7	1.40e7	----	----	0.89	

## REPORT OF LABORATORY ANALYSIS

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**PCDD/PCDF Detected Peak List**

Prepared By \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client ID		Injected By	CVS
Lab ID	CS3/CPM-011607	Instrument ID	10MSHR09 (P)
Filename	P70306B_12	GC Column ID	US5455214H
Analyzed	03/07/2007 12:45	ICAL Date	02/28/2007

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:53	1.41e8	1.82e8	1.67e7	2.13e7	----	----	0.78	
2,3,7,8-TCDF	22:55	1.42e7	1.83e7	1.70e6	2.14e6	----	----	0.78	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	23:04	1.10e8	1.39e8	1.34e7	1.69e7	----	----	0.79	
2,3,7,8-TCDD-13C	24:03	1.09e8	1.38e8	1.21e7	1.54e7	----	----	0.79	
2,3,7,8-TCDD-37Cl4	24:05	2.50e7		2.83e6		----	----		
2,3,7,8-TCDD	24:05	1.05e7	1.42e7	1.16e6	1.51e6	----	----	0.74	

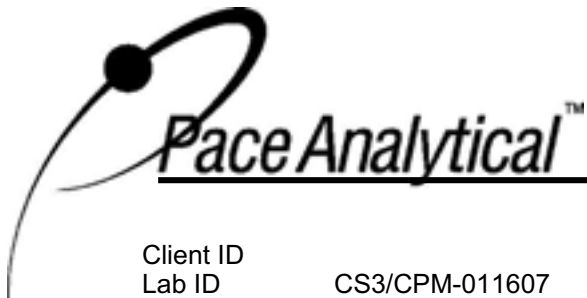
Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	30:37	1.55e8	1.01e8	2.34e7	1.49e7	----	----	1.53	
2,3,4,7,8-PeCDF-13C	32:09	1.61e8	1.02e8	2.77e7	1.78e7	----	----	1.58	
1,2,3,7,8-PeCDF	30:39	7.23e7	4.62e7	1.08e7	6.93e6	----	----	1.56	
2,3,4,7,8-PeCDF	32:10	7.62e7	4.89e7	1.29e7	8.26e6	----	----	1.56	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:37	1.10e8	7.02e7	1.89e7	1.21e7	----	----	1.56	
1,2,3,7,8-PeCDD	32:37	3.40e7	5.55e7	5.79e6	9.40e6	----	----	0.61	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:13	6.63e7	1.28e8	1.55e7	2.99e7	----	----	0.52	
1,2,3,6,7,8-HxCDF-13C	36:22	7.76e7	1.47e8	1.72e7	3.22e7	----	----	0.53	
2,3,4,6,7,8-HxCDF-13C	37:06	7.19e7	1.39e8	1.69e7	3.23e7	----	----	0.52	
1,2,3,7,8,9-HxCDF-13C	38:06	6.18e7	1.18e8	1.37e7	2.66e7	----	----	0.53	
1,2,3,4,7,8-HxCDF	36:14	5.83e7	4.80e7	1.35e7	1.11e7	----	----	1.22	
1,2,3,6,7,8-HxCDF	36:23	6.56e7	5.29e7	1.39e7	1.10e7	----	----	1.24	
2,3,4,6,7,8-HxCDF	37:06	6.06e7	4.94e7	1.40e7	1.16e7	----	----	1.23	
1,2,3,7,8,9-HxCDF	38:07	5.13e7	4.15e7	1.15e7	9.27e6	----	----	1.24	

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Client ID  
Lab ID CS3/CPM-011607  
Filename P70306B\_12  
Analyzed 03/07/2007 12:45

Injected By  
Instrument ID  
GC Column ID  
ICAL Date  
CVS  
10MSHR09 (P)  
US5455214H  
02/28/2007

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:16	9.53e7	7.61e7	2.37e7	1.88e7	----	----	1.25	
1,2,3,6,7,8-HxCDD-13C	37:24	1.06e8	8.60e7	2.46e7	1.98e7	----	----	1.24	
1,2,3,7,8,9-HxCDD-13C	37:43	1.03e8	8.31e7	2.47e7	1.98e7	----	----	1.24	
1,2,3,4,7,8-HxCDD	37:17	4.61e7	3.75e7	1.10e7	8.89e6	----	----	1.23	
1,2,3,6,7,8-HxCDD	37:24	4.87e7	3.92e7	1.10e7	8.91e6	----	----	1.24	
1,2,3,7,8,9-HxCDD	37:44	4.82e7	3.90e7	1.12e7	9.23e6	----	----	1.24	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	39:49	5.41e7	1.21e8	1.36e7	3.10e7	----	----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	41:28	4.52e7	1.02e8	1.18e7	2.62e7	----	----	0.45	
1,2,3,4,6,7,8-HpCDF	39:50	5.92e7	5.79e7	1.46e7	1.44e7	----	----	1.02	
1,2,3,4,7,8,9-HpCDF	41:29	4.42e7	4.28e7	1.16e7	1.10e7	----	----	1.03	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	40:57	7.22e7	6.80e7	1.98e7	1.85e7	----	----	1.06	
1,2,3,4,6,7,8-HpCDD	40:57	3.78e7	3.61e7	1.00e7	9.52e6	----	----	1.05	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:06	5.05e7	5.60e7	1.21e7	1.33e7	----	----	0.90	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:55	9.10e7	1.02e8	2.18e7	2.44e7	----	----	0.89	
OCDD	43:56	4.73e7	5.31e7	1.12e7	1.27e7	----	----	0.89	

## REPORT OF LABORATORY ANALYSIS

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### PCDD/PCDF Detected Peak List

Prepared By \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client ID		Injected By	CVS
Lab ID	CS3/CPM-011607	Instrument ID	10MSHR09 (P)
Filename	P70307A_02	GC Column ID	US5455214H
Analyzed	03/07/2007 15:08	ICAL Date	02/28/2007

Page 1

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:52	1.24e8	1.55e8	1.54e7	1.95e7	----	----	0.80	
2,3,7,8-TCDF	22:53	1.28e7	1.65e7	1.58e6	2.10e6	----	----	0.78	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	23:03	9.57e7	1.22e8	1.23e7	1.56e7	----	----	0.78	
2,3,7,8-TCDD-13C	24:03	9.35e7	1.19e8	1.11e7	1.40e7	----	----	0.79	
2,3,7,8-TCDD-37Cl4	24:04	2.17e7		2.55e6		----	----		
2,3,7,8-TCDD	24:04	8.95e6	1.23e7	1.05e6	1.35e6	----	----	0.73	

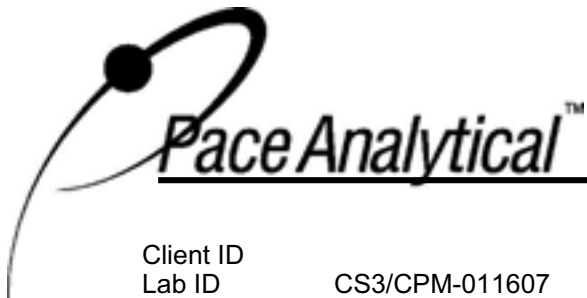
Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	30:36	1.26e8	8.10e7	1.86e7	1.20e7	----	----	1.56	
2,3,4,7,8-PeCDF-13C	32:08	1.15e8	7.54e7	2.04e7	1.31e7	----	----	1.53	
1,2,3,7,8-PeCDF	30:37	5.47e7	3.59e7	8.01e6	5.25e6	----	----	1.52	
2,3,4,7,8-PeCDF	32:09	5.32e7	3.46e7	9.07e6	5.97e6	----	----	1.54	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:36	8.27e7	5.31e7	1.42e7	9.16e6	----	----	1.56	
1,2,3,7,8-PeCDD	32:37	2.43e7	4.03e7	4.18e6	7.02e6	----	----	0.60	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:12	4.95e7	9.62e7	1.14e7	2.20e7	----	----	0.51	
1,2,3,6,7,8-HxCDF-13C	36:21	5.95e7	1.15e8	1.27e7	2.46e7	----	----	0.52	
2,3,4,6,7,8-HxCDF-13C	37:05	5.63e7	1.10e8	1.35e7	2.59e7	----	----	0.51	
1,2,3,7,8,9-HxCDF-13C	38:05	5.18e7	1.00e8	1.17e7	2.27e7	----	----	0.52	
1,2,3,4,7,8-HxCDF	36:14	4.35e7	3.57e7	1.01e7	8.22e6	----	----	1.22	
1,2,3,6,7,8-HxCDF	36:23	4.88e7	3.94e7	1.10e7	8.82e6	----	----	1.24	
2,3,4,6,7,8-HxCDF	37:06	4.66e7	3.86e7	1.09e7	9.04e6	----	----	1.21	
1,2,3,7,8,9-HxCDF	38:06	4.21e7	3.43e7	9.05e6	7.59e6	----	----	1.23	

## REPORT OF LABORATORY ANALYSIS

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Client ID  
Lab ID CS3/CPM-011607  
Filename P70307A\_02  
Analyzed 03/07/2007 15:08

Injected By  
Instrument ID  
GC Column ID  
ICAL Date  
CVS  
10MSHR09 (P)  
US5455214H  
02/28/2007

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:16	7.35e7	5.80e7	1.93e7	1.52e7	----	----	1.27	
1,2,3,6,7,8-HxCDD-13C	37:23	8.55e7	6.62e7	1.96e7	1.53e7	----	----	1.29	
1,2,3,7,8,9-HxCDD-13C	37:43	8.39e7	6.50e7	1.99e7	1.59e7	----	----	1.29	
1,2,3,4,7,8-HxCDD	37:17	3.68e7	2.81e7	9.18e6	7.35e6	----	----	1.31	
1,2,3,6,7,8-HxCDD	37:24	3.70e7	3.10e7	8.80e6	7.08e6	----	----	1.20	
1,2,3,7,8,9-HxCDD	37:44	3.90e7	3.12e7	8.99e6	7.08e6	----	----	1.25	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	39:49	5.27e7	1.15e8	1.34e7	2.98e7	----	----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	41:28	4.81e7	1.08e8	1.24e7	2.75e7	----	----	0.45	
1,2,3,4,6,7,8-HpCDF	39:50	5.75e7	5.61e7	1.50e7	1.44e7	----	----	1.02	
1,2,3,4,7,8,9-HpCDF	41:29	4.63e7	4.54e7	1.20e7	1.14e7	----	----	1.02	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	40:57	7.57e7	7.19e7	2.03e7	1.96e7	----	----	1.05	
1,2,3,4,6,7,8-HpCDD	40:57	3.99e7	3.80e7	1.09e7	1.00e7	----	----	1.05	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:06	5.76e7	6.43e7	1.32e7	1.50e7	----	----	0.89	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:55	1.08e8	1.22e8	2.65e7	2.96e7	----	----	0.88	
OCDD	43:56	5.63e7	6.34e7	1.40e7	1.58e7	----	----	0.89	

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### PCDD/PCDF Detected Peak List

Prepared By \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client ID		Injected By	CVS
Lab ID	CS3/CPM-011607	Instrument ID	10MSHR09 (P)
Filename	P70307A_07	GC Column ID	US5455214H
Analyzed	03/07/2007 18:52	ICAL Date	02/28/2007

Page 1

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:51	1.45e8	1.85e8	1.60e7	2.09e7	----	----	0.78	
2,3,7,8-TCDF	22:53	1.44e7	1.92e7	1.60e6	2.07e6	----	----	0.75	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	23:02	1.13e8	1.39e8	1.31e7	1.64e7	----	----	0.82	
2,3,7,8-TCDD-13C	24:02	1.11e8	1.44e8	1.18e7	1.50e7	----	----	0.77	
2,3,7,8-TCDD-37Cl4	24:03	2.63e7		2.77e6		----	----		
2,3,7,8-TCDD	24:03	1.14e7	1.48e7	1.15e6	1.48e6	----	----	0.77	

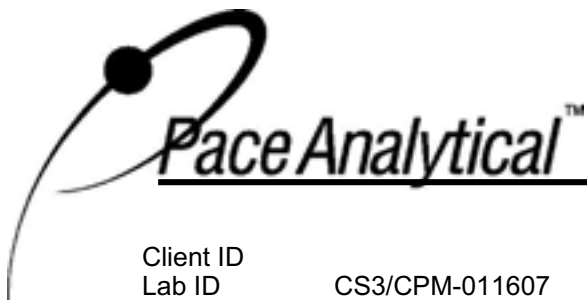
Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	30:34	1.72e8	1.09e8	2.33e7	1.48e7	----	----	1.58	
2,3,4,7,8-PeCDF-13C	32:07	1.64e8	1.05e8	2.50e7	1.62e7	----	----	1.57	
1,2,3,7,8-PeCDF	30:36	7.68e7	4.88e7	1.02e7	6.79e6	----	----	1.57	
2,3,4,7,8-PeCDF	32:09	7.43e7	4.84e7	1.11e7	7.30e6	----	----	1.53	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:35	1.14e8	7.28e7	1.71e7	1.10e7	----	----	1.56	
1,2,3,7,8-PeCDD	32:36	3.46e7	5.56e7	5.44e6	8.78e6	----	----	0.62	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:11	5.50e7	1.07e8	1.15e7	2.25e7	----	----	0.52	
1,2,3,6,7,8-HxCDF-13C	36:20	6.73e7	1.30e8	1.21e7	2.37e7	----	----	0.52	
2,3,4,6,7,8-HxCDF-13C	37:04	5.99e7	1.16e8	1.31e7	2.52e7	----	----	0.52	
1,2,3,7,8,9-HxCDF-13C	38:04	5.08e7	9.75e7	1.03e7	1.99e7	----	----	0.52	
1,2,3,4,7,8-HxCDF	36:13	4.90e7	4.03e7	1.01e7	8.16e6	----	----	1.21	
1,2,3,6,7,8-HxCDF	36:22	5.48e7	4.49e7	1.04e7	8.64e6	----	----	1.22	
2,3,4,6,7,8-HxCDF	37:06	5.02e7	4.16e7	1.03e7	8.52e6	----	----	1.21	
1,2,3,7,8,9-HxCDF	38:06	4.15e7	3.39e7	8.32e6	6.75e6	----	----	1.22	

## REPORT OF LABORATORY ANALYSIS

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Client ID  
Lab ID CS3/CPM-011607  
Filename P70307A\_07  
Analyzed 03/07/2007 18:52

Injected By  
Instrument ID  
GC Column ID  
ICAL Date  
CVS  
10MSHR09 (P)  
US5455214H  
02/28/2007

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:15	7.62e7	6.04e7	1.77e7	1.40e7	----	----	1.26	
1,2,3,6,7,8-HxCDD-13C	37:22	9.44e7	7.53e7	1.84e7	1.52e7	----	----	1.25	
1,2,3,7,8,9-HxCDD-13C	37:42	8.82e7	7.02e7	1.85e7	1.47e7	----	----	1.26	
1,2,3,4,7,8-HxCDD	37:16	3.66e7	2.92e7	8.79e6	6.90e6	----	----	1.25	
1,2,3,6,7,8-HxCDD	37:23	4.31e7	3.47e7	8.13e6	6.62e6	----	----	1.24	
1,2,3,7,8,9-HxCDD	37:43	4.07e7	3.27e7	8.45e6	6.69e6	----	----	1.24	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	39:48	4.35e7	9.66e7	9.95e6	2.22e7	----	----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	41:27	3.48e7	7.92e7	8.00e6	1.79e7	----	----	0.44	
1,2,3,4,6,7,8-HpCDF	39:49	4.77e7	4.58e7	1.09e7	1.04e7	----	----	1.04	
1,2,3,4,7,8,9-HpCDF	41:28	3.49e7	3.39e7	7.86e6	7.53e6	----	----	1.03	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	40:57	5.87e7	5.54e7	1.36e7	1.32e7	----	----	1.06	
1,2,3,4,6,7,8-HpCDD	40:58	3.08e7	2.91e7	7.04e6	6.69e6	----	----	1.06	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:05	4.60e7	5.09e7	9.24e6	1.03e7	----	----	0.90	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:54	8.64e7	9.70e7	1.84e7	2.07e7	----	----	0.89	
OCDD	43:55	4.49e7	5.06e7	9.61e6	1.08e7	----	----	0.89	

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### PCDD/PCDF Detected Peak List

Prepared By \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client ID		Injected By	CVS
Lab ID	CS3/CPM-5176-105	Instrument ID	10MSHR06 (U)
Filename	U70307B_16	GC Column ID	US6667215H
Analyzed	03/08/2007 08:06	ICAL Date	01/27/2007

Page 1

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:51	3.63e7	4.53e7	4.35e6	5.63e6	----	----	0.80	
2,3,7,8-TCDF	22:53	3.98e6	5.16e6	5.17e5	6.34e5	----	----	0.77	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	23:06	2.65e7	3.31e7	3.59e6	4.54e6	----	----	0.80	
2,3,7,8-TCDD-13C	24:01	2.71e7	3.37e7	3.16e6	3.93e6	----	----	0.81	
2,3,7,8-TCDD-37Cl4	24:03	6.40e6		7.82e5		----	----		
2,3,7,8-TCDD	24:03	2.80e6	3.56e6	3.39e5	4.29e5	----	----	0.79	

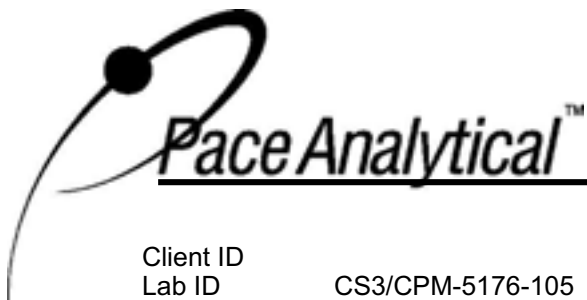
Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	30:29	4.97e7	3.12e7	6.86e6	4.24e6	----	----	1.60	
2,3,4,7,8-PeCDF-13C	32:03	4.90e7	3.05e7	7.91e6	4.97e6	----	----	1.61	
1,2,3,7,8-PeCDF	30:31	2.46e7	1.62e7	3.59e6	2.26e6	----	----	1.52	
2,3,4,7,8-PeCDF	32:03	2.55e7	1.63e7	4.15e6	2.58e6	----	----	1.56	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:31	2.96e7	1.91e7	4.91e6	3.13e6	----	----	1.55	
1,2,3,7,8-PeCDD	32:32	9.80e6	1.59e7	1.60e6	2.45e6	----	----	0.62	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:05	2.14e7	4.04e7	4.28e6	8.05e6	----	----	0.53	
1,2,3,6,7,8-HxCDF-13C	36:14	2.71e7	5.04e7	4.89e6	8.98e6	----	----	0.54	
2,3,4,6,7,8-HxCDF-13C	36:58	2.54e7	4.71e7	4.88e6	9.02e6	----	----	0.54	
1,2,3,7,8,9-HxCDF-13C	37:58	2.00e7	3.72e7	3.46e6	6.61e6	----	----	0.54	
1,2,3,4,7,8-HxCDF	36:06	2.07e7	1.65e7	4.21e6	3.38e6	----	----	1.25	
1,2,3,6,7,8-HxCDF	36:15	2.53e7	2.02e7	4.72e6	3.68e6	----	----	1.25	
2,3,4,6,7,8-HxCDF	36:59	2.26e7	1.86e7	4.46e6	3.52e6	----	----	1.21	
1,2,3,7,8,9-HxCDF	37:59	1.79e7	1.50e7	3.25e6	2.58e6	----	----	1.20	

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Client ID		Injected By	CVS
Lab ID	CS3/CPM-5176-105	Instrument ID	10MSHR06 (U)
Filename	U70307B_16	GC Column ID	US6667215H
Analyzed	03/08/2007 08:06	ICAL Date	01/27/2007

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:10	2.42e7	1.91e7	5.37e6	4.13e6	----	----	1.27	
1,2,3,6,7,8-HxCDD-13C	37:17	3.13e7	2.52e7	5.96e6	4.82e6	----	----	1.24	
1,2,3,7,8,9-HxCDD-13C	37:36	2.88e7	2.19e7	4.93e6	3.91e6	----	----	1.31	
1,2,3,4,7,8-HxCDD	37:11	1.30e7	1.05e7	2.90e6	2.32e6	----	----	1.24	
1,2,3,6,7,8-HxCDD	37:18	1.60e7	1.26e7	3.03e6	2.55e6	----	----	1.27	
1,2,3,7,8,9-HxCDD	37:37	1.46e7	1.14e7	2.65e6	2.14e6	----	----	1.28	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	39:40	1.49e7	3.20e7	2.98e6	6.15e6	----	----	0.47	
1,2,3,4,7,8,9-HpCDF-13C	41:20	1.17e7	2.61e7	2.17e6	4.61e6	----	----	0.45	
1,2,3,4,6,7,8-HpCDF	39:41	1.71e7	1.65e7	3.32e6	3.27e6	----	----	1.03	
1,2,3,4,7,8,9-HpCDF	41:21	1.20e7	1.13e7	2.21e6	2.04e6	----	----	1.06	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	40:49	1.66e7	1.57e7	3.05e6	2.97e6	----	----	1.05	
1,2,3,4,6,7,8-HpCDD	40:50	9.58e6	9.06e6	1.83e6	1.72e6	----	----	1.06	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	43:56	1.67e7	1.82e7	2.68e6	3.00e6	----	----	0.92	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:45	2.60e7	2.87e7	4.27e6	4.64e6	----	----	0.91	
OCDD	43:46	1.41e7	1.56e7	2.31e6	2.59e6	----	----	0.90	

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### PCDD/PCDF Detected Peak List

Prepared By \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client ID		Injected By	CVS
Lab ID	CS3/CPM-5176-105	Instrument ID	10MSHR06 (U)
Filename	U70308A_08	GC Column ID	US6667215H
Analyzed	03/08/2007 14:15	ICAL Date	01/27/2007

Page 1

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:52	3.84e7	4.92e7	4.89e6	6.27e6	----	----	0.78	
2,3,7,8-TCDF	22:54	4.34e6	5.84e6	5.48e5	7.06e5	----	----	0.74	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	23:07	2.86e7	3.59e7	3.77e6	4.71e6	----	----	0.80	
2,3,7,8-TCDD-13C	24:03	2.96e7	3.72e7	3.39e6	4.39e6	----	----	0.79	
2,3,7,8-TCDD-37Cl4	24:04	6.95e6		7.94e5		----	----		
2,3,7,8-TCDD	24:04	3.19e6	3.94e6	3.52e5	4.51e5	----	----	0.81	

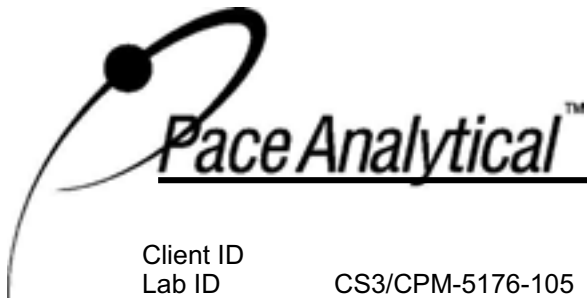
Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	30:31	5.62e7	3.56e7	7.39e6	4.71e6	----	----	1.58	
2,3,4,7,8-PeCDF-13C	32:03	5.55e7	3.45e7	9.01e6	5.76e6	----	----	1.61	
1,2,3,7,8-PeCDF	30:33	2.73e7	1.80e7	3.53e6	2.37e6	----	----	1.52	
2,3,4,7,8-PeCDF	32:05	2.90e7	1.89e7	4.54e6	2.89e6	----	----	1.53	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:32	3.42e7	2.20e7	5.20e6	3.37e6	----	----	1.55	
1,2,3,7,8-PeCDD	32:33	1.13e7	1.84e7	1.71e6	2.85e6	----	----	0.61	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:06	2.47e7	4.47e7	4.93e6	9.07e6	----	----	0.55	
1,2,3,6,7,8-HxCDF-13C	36:15	3.15e7	5.98e7	5.26e6	1.00e7	----	----	0.53	
2,3,4,6,7,8-HxCDF-13C	36:59	2.92e7	5.32e7	5.64e6	1.06e7	----	----	0.55	
1,2,3,7,8,9-HxCDF-13C	37:59	2.27e7	4.31e7	3.88e6	7.27e6	----	----	0.53	
1,2,3,4,7,8-HxCDF	36:07	2.37e7	1.89e7	4.92e6	3.87e6	----	----	1.25	
1,2,3,6,7,8-HxCDF	36:16	2.92e7	2.34e7	5.02e6	4.10e6	----	----	1.25	
2,3,4,6,7,8-HxCDF	36:59	2.68e7	2.12e7	5.39e6	4.46e6	----	----	1.26	
1,2,3,7,8,9-HxCDF	38:00	2.05e7	1.64e7	3.67e6	2.91e6	----	----	1.25	

## REPORT OF LABORATORY ANALYSIS

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Client ID		Injected By	CVS
Lab ID	CS3/CPM-5176-105	Instrument ID	10MSHR06 (U)
Filename	U70308A_08	GC Column ID	US6667215H
Analyzed	03/08/2007 14:15	ICAL Date	01/27/2007

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:10	2.79e7	2.21e7	6.21e6	4.71e6	----	----	1.27	
1,2,3,6,7,8-HxCDD-13C	37:18	3.73e7	2.96e7	6.81e6	5.42e6	----	----	1.26	
1,2,3,7,8,9-HxCDD-13C	37:37	3.34e7	2.63e7	5.66e6	4.45e6	----	----	1.27	
1,2,3,4,7,8-HxCDD	37:11	1.52e7	1.17e7	3.35e6	2.58e6	----	----	1.30	
1,2,3,6,7,8-HxCDD	37:18	1.90e7	1.47e7	3.30e6	2.63e6	----	----	1.29	
1,2,3,7,8,9-HxCDD	37:38	1.71e7	1.36e7	3.04e6	2.30e6	----	----	1.26	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	39:41	1.72e7	3.84e7	3.28e6	7.48e6	----	----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	41:21	1.35e7	2.96e7	2.46e6	5.31e6	----	----	0.46	
1,2,3,4,6,7,8-HpCDF	39:41	2.02e7	1.91e7	4.11e6	3.73e6	----	----	1.06	
1,2,3,4,7,8,9-HpCDF	41:22	1.42e7	1.30e7	2.45e6	2.36e6	----	----	1.09	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	40:50	1.97e7	1.83e7	3.75e6	3.44e6	----	----	1.08	
1,2,3,4,6,7,8-HpCDD	40:51	1.13e7	1.05e7	2.17e6	2.00e6	----	----	1.08	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	43:57	1.86e7	2.03e7	2.79e6	2.93e6	----	----	0.92	

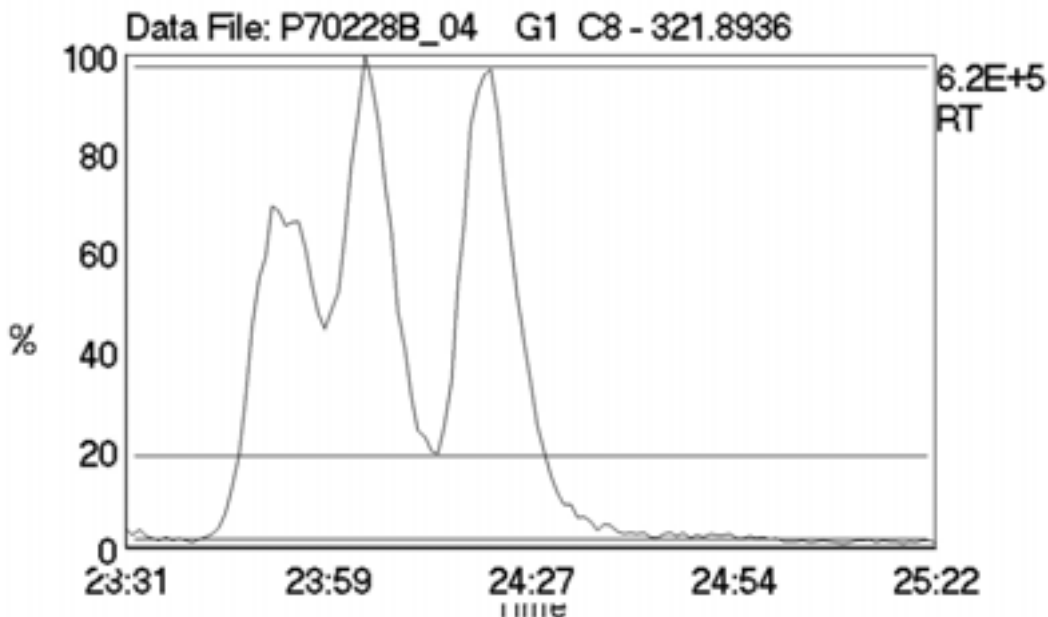
Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:46	2.95e7	3.31e7	4.50e6	5.09e6	----	----	0.89	
OCDD	43:47	1.68e7	1.80e7	2.64e6	2.77e6	----	----	0.93	

## REPORT OF LABORATORY ANALYSIS

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**Column Performance Mix (CPM) / Window Defining Mix (WDM)**

Lab Sample ID	CS3/CPM-011607	Injected By	BAL
Raw Data File	P70228B_04	Instrument ID	10MSHR09 (P)
Date Analyzed	2/28/2007	GC Column Type	DB-5MS 0.25 uM
Time Analyzed	15:28	GC Column S/N	US5455214H
<b>Resolution</b>	<b>17.9%</b>		



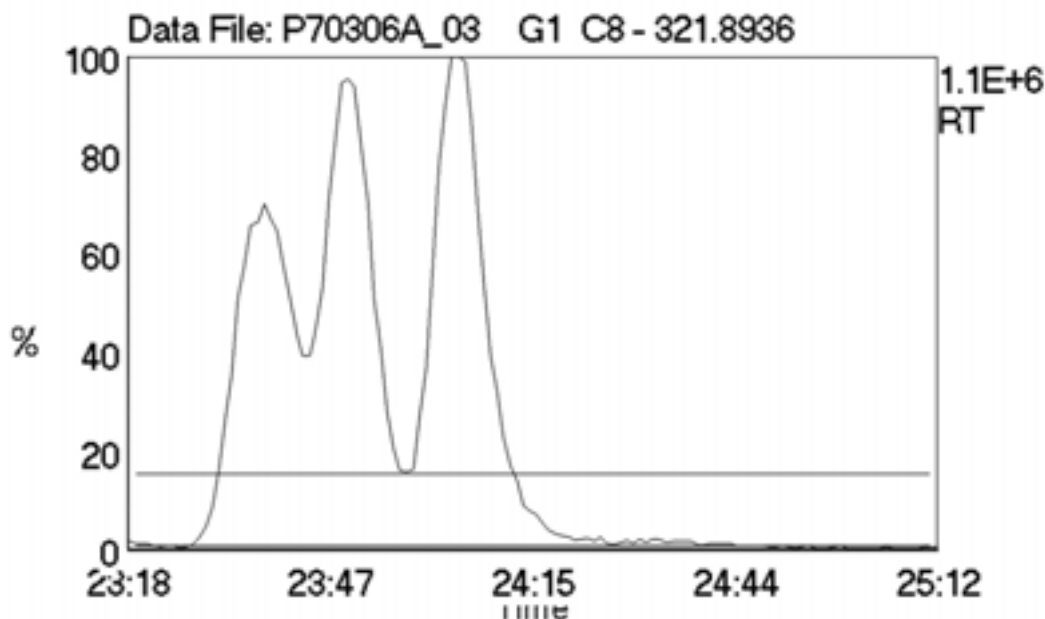
Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	18:25	26:10
PeCDF	341.8567	26:08	33:41
HxCDF	373.8207	34:46	38:13
HpCDF	407.7818	39:57	41:35
OCDF	441.7428	44:14	0:00
TCDD	321.8936	20:05	25:50
PeCDD	357.8517	29:12	33:20
HxCDD	391.8127	35:32	37:51
HpCDD	425.7737	40:16	41:05
OCDD	459.7347	44:05	0:00
1234-TCDD-13C(RS)	331.9367	23:20	0:00
123789-HxCDD-13C(RS)	401.8559	37:51	0:00

**REPORT OF LABORATORY ANALYSIS**

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**Column Performance Mix (CPM) / Window Defining Mix (WDM)**

Lab Sample ID	CS3/CPM-011607	Injected By	CVS
Raw Data File	P70306A_03	Instrument ID	10MSHR09 (P)
Date Analyzed	3/6/2007	GC Column Type	DB-5MS 0.25 uM
Time Analyzed	14:20	GC Column S/N	US5455214H
<b>Resolution</b>	<b>14.8%</b>		



Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	18:14	25:51
PeCDF	341.8567	25:50	33:32
HxCDF	373.8207	34:37	38:06
HpCDF	407.7818	39:49	41:28
OCDF	441.7428	44:05	0:00
TCDD	321.8936	19:48	25:31
PeCDD	357.8517	29:00	33:10
HxCDD	391.8127	35:23	37:44
HpCDD	425.7737	40:09	40:57
OCDD	459.7347	43:55	0:00
1234-TCDD-13C(RS)	331.9367	23:04	0:00
123789-HxCDD-13C(RS)	401.8559	37:43	0:00

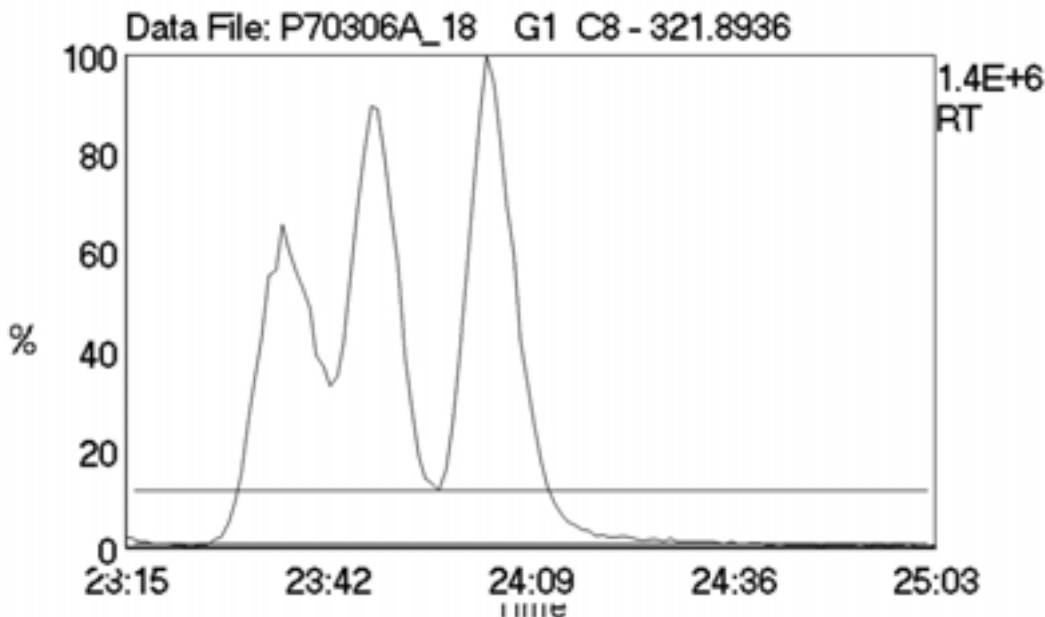
**REPORT OF LABORATORY ANALYSIS**

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**Column Performance Mix (CPM) / Window Defining Mix (WDM)**

Lab Sample ID	CS3/CPM-011607	Injected By	CVS
Raw Data File	P70306A_18	Instrument ID	10MSHR09 (P)
Date Analyzed	3/7/2007	GC Column Type	DB-5MS 0.25 uM
Time Analyzed	02:23	GC Column S/N	US5455214H
<b>Resolution</b>	<b>11.0%</b>		



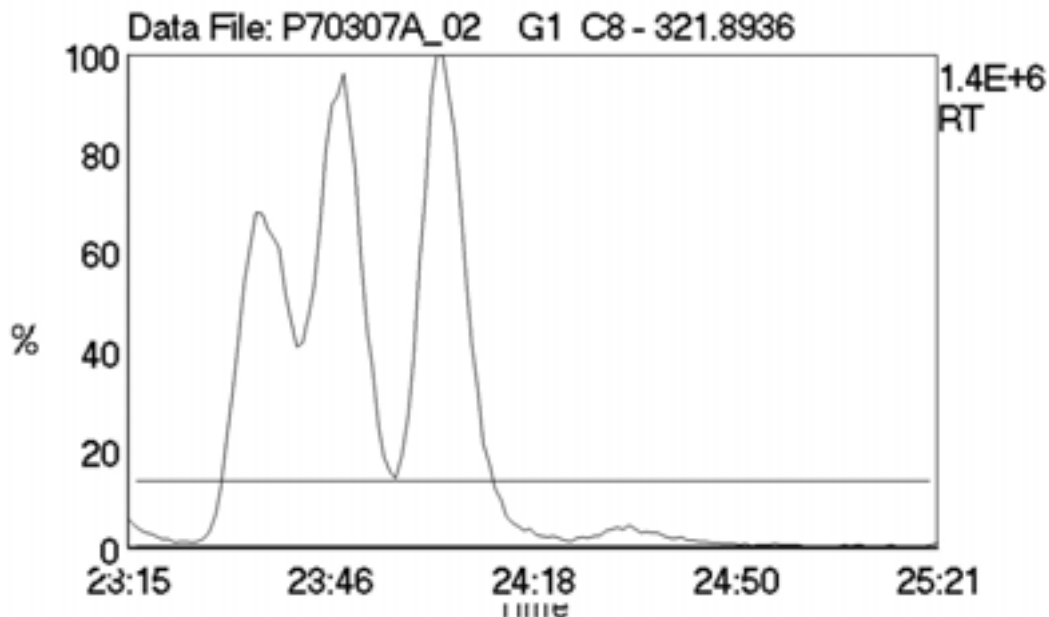
Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	18:12	25:51
PeCDF	341.8567	25:50	33:32
HxCDF	373.8207	34:36	38:04
HpCDF	407.7818	39:47	41:26
OCDF	441.7428	44:04	0:00
TCDD	321.8936	19:48	25:31
PeCDD	357.8517	28:56	33:09
HxCDD	391.8127	35:22	37:43
HpCDD	425.7737	40:07	40:56
OCDD	459.7347	43:53	0:00
1234-TCDD-13C(RS)	331.9367	23:04	0:00
123789-HxCDD-13C(RS)	401.8559	37:41	0:00

**REPORT OF LABORATORY ANALYSIS**

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**Column Performance Mix (CPM) / Window Defining Mix (WDM)**

Lab Sample ID	CS3/CPM-011607	Injected By	CVS
Raw Data File	P70307A_02	Instrument ID	10MSHR09 (P)
Date Analyzed	3/7/2007	GC Column Type	DB-5MS 0.25 uM
Time Analyzed	15:08	GC Column S/N	US5455214H
<b>Resolution</b>	<b>13.4%</b>		



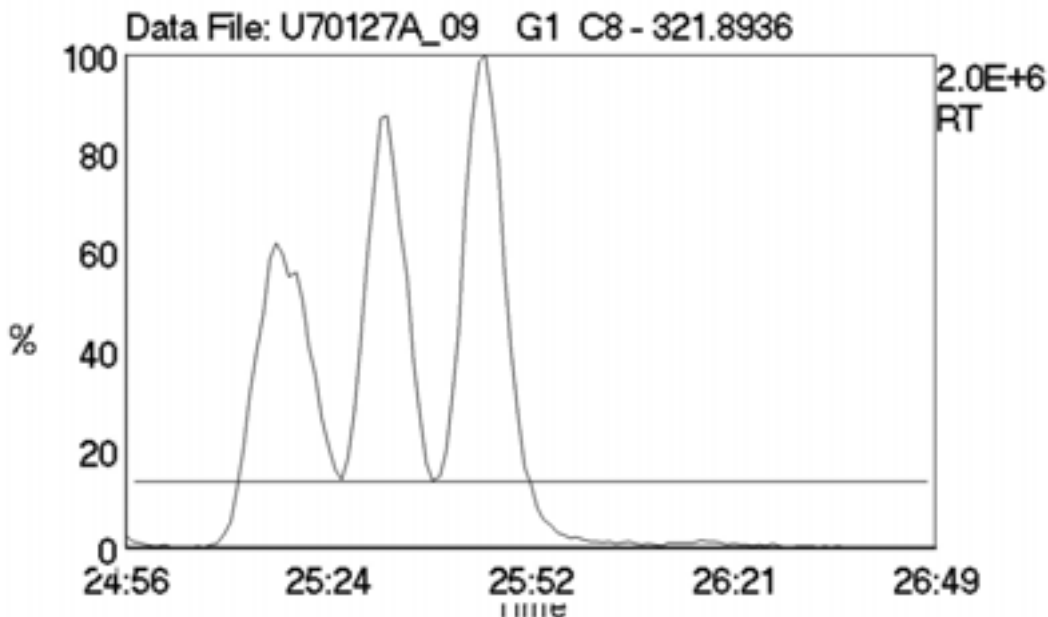
Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	18:14	25:51
PeCDF	341.8567	25:51	33:32
HxCDF	373.8207	34:36	38:06
HpCDF	407.7818	39:49	41:28
OCDF	441.7428	44:06	0:00
TCDD	321.8936	19:48	25:31
PeCDD	357.8517	28:56	33:08
HxCDD	391.8127	35:22	37:44
HpCDD	425.7737	40:08	40:57
OCDD	459.7347	43:55	0:00
1234-TCDD-13C(RS)	331.9367	23:02	0:00
123789-HxCDD-13C(RS)	401.8559	37:43	0:00

**REPORT OF LABORATORY ANALYSIS**

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**Column Performance Mix (CPM) / Window Defining Mix (WDM)**

Lab Sample ID	CS3/CPM-5176-10	Injected By	BAL
Raw Data File	U70127A_09	Instrument ID	10MSHR06 (U)
Date Analyzed	1/27/2007	GC Column Type	DB-5MS 0.25 uM
Time Analyzed	21:44	GC Column S/N	US6667215H
<b>Resolution</b>	<b>13.4%</b>		



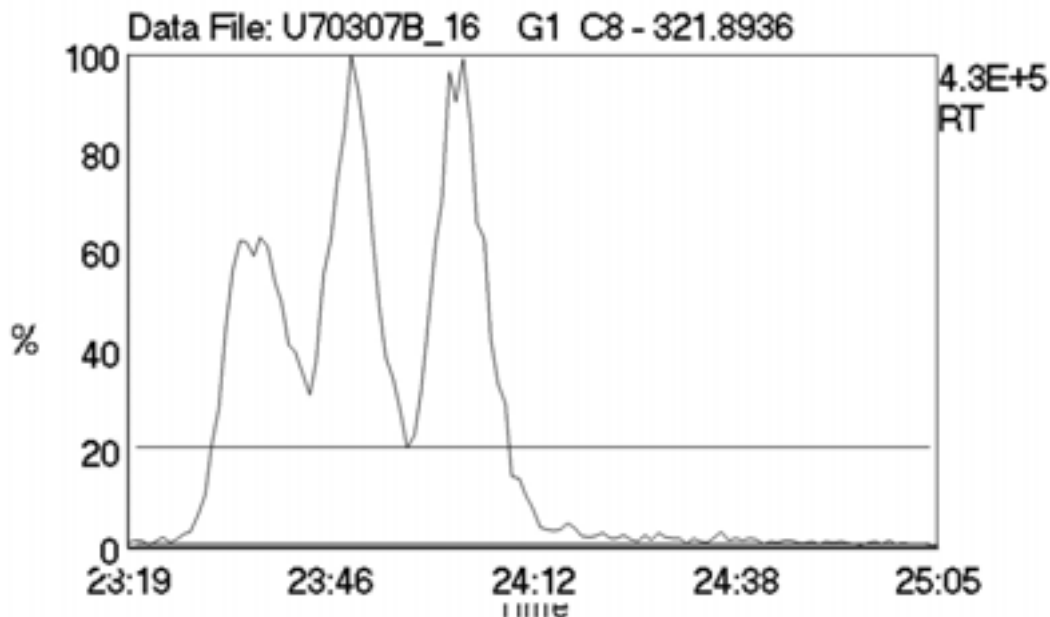
Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	19:28	27:41
PeCDF	341.8567	27:35	34:26
HxCDF	373.8207	35:23	38:43
HpCDF	407.7818	40:21	41:59
OCDF	441.7428	44:38	0:00
TCDD	321.8936	21:15	27:24
PeCDD	357.8517	30:16	34:06
HxCDD	391.8127	36:06	38:22
HpCDD	425.7737	40:40	41:29
OCDD	459.7347	44:27	0:00
1234-TCDD-13C(RS)	331.9367	24:46	0:00
123789-HxCDD-13C(RS)	401.8559	38:21	0:00

**REPORT OF LABORATORY ANALYSIS**

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**Column Performance Mix (CPM) / Window Defining Mix (WDM)**

Lab Sample ID	CS3/CPM-5176-10	Injected By	CVS
Raw Data File	U70307B_16	Instrument ID	10MSHR06 (U)
Date Analyzed	3/8/2007	GC Column Type	DB-5MS 0.25 uM
Time Analyzed	08:06	GC Column S/N	US6667215H
<b>Resolution</b>	<b>19.8%</b>		



Group	Mass	First Eluter	Last Eluter
TCDF	305.8987	18:17	25:49
PeCDF	341.8567	25:44	33:26
HxCDF	373.8207	34:28	37:59
HpCDF	407.7818	39:40	41:21
OCDF	441.7428	43:55	0:00
TCDD	321.8936	19:50	25:31
PeCDD	357.8517	28:52	33:05
HxCDD	391.8127	35:15	37:35
HpCDD	425.7737	40:00	40:49
OCDD	459.7347	43:44	0:00
1234-TCDD-13C(RS)	331.9367	23:05	0:00
123789-HxCDD-13C(RS)	401.8559	37:34	0:00

**REPORT OF LABORATORY ANALYSIS**

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Data File Name: P70228B\_04

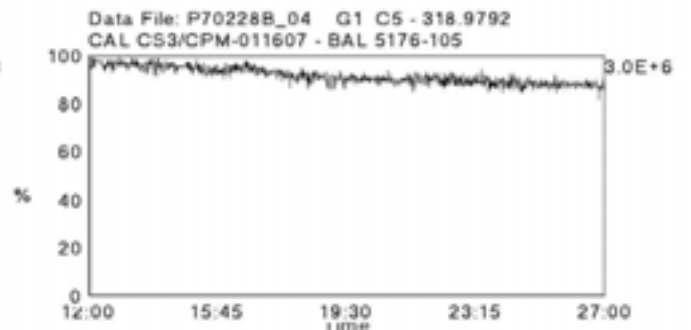
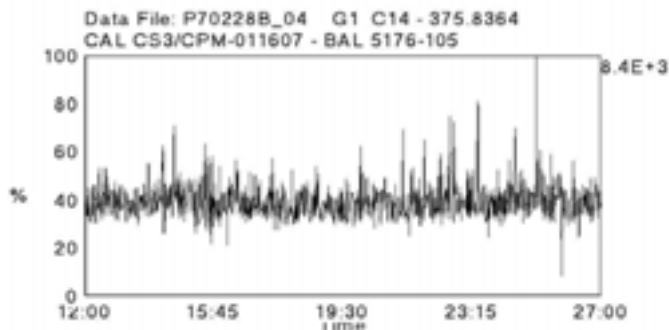
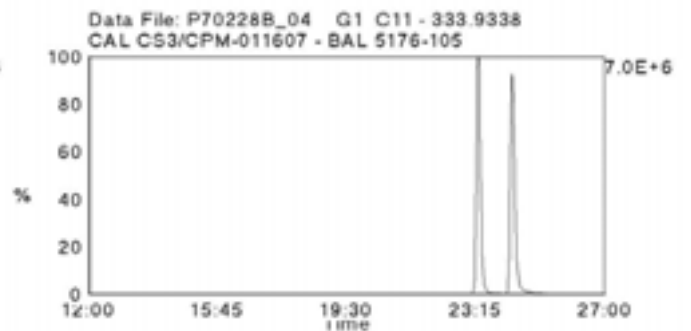
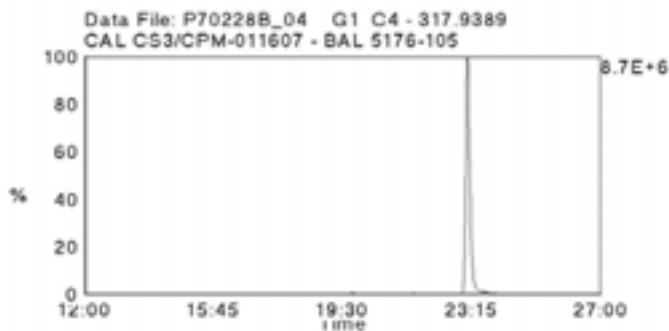
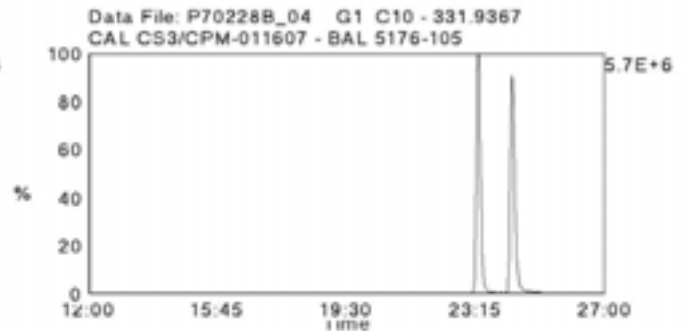
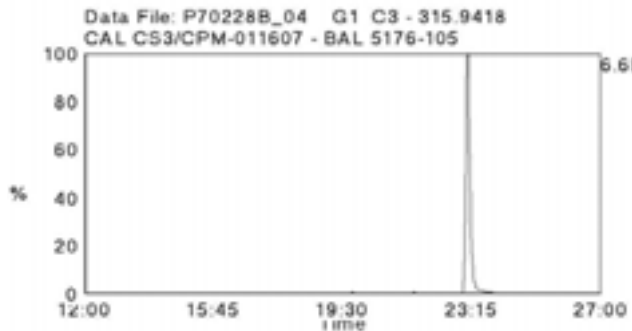
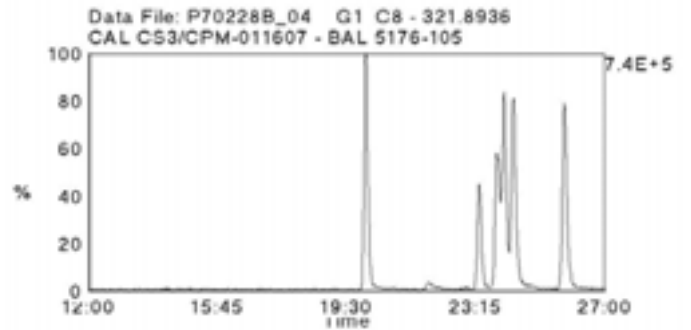
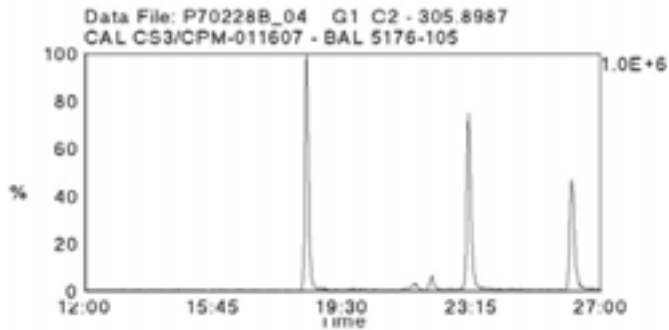
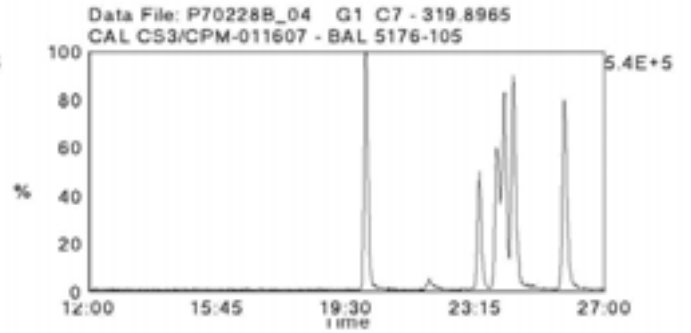
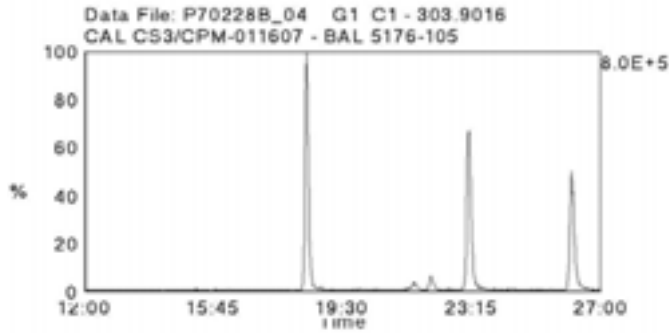
Date Acquired: 2/28/2007

Sample Description: CAL CS3/CPM-011607 - BAL 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70228B\_04

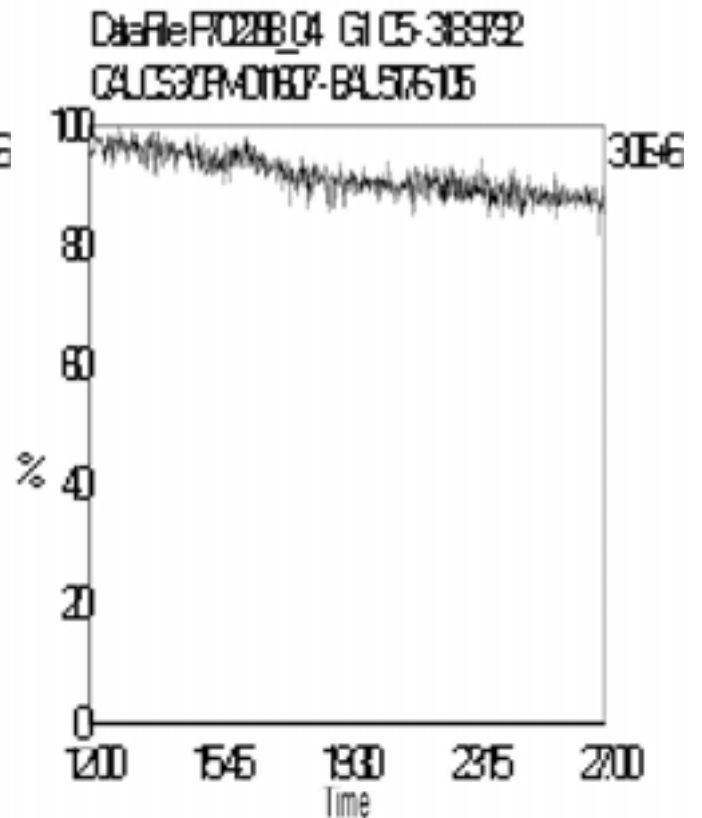
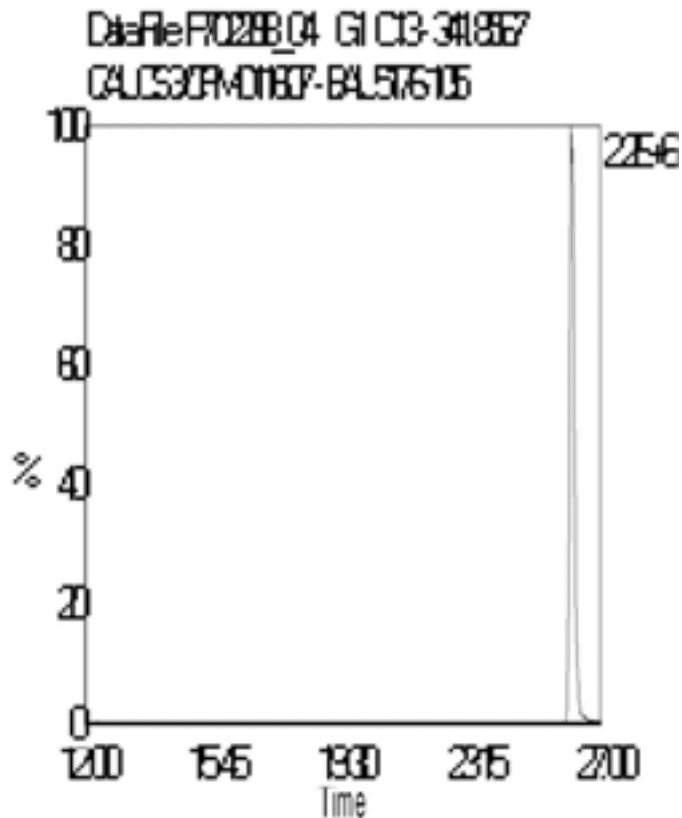
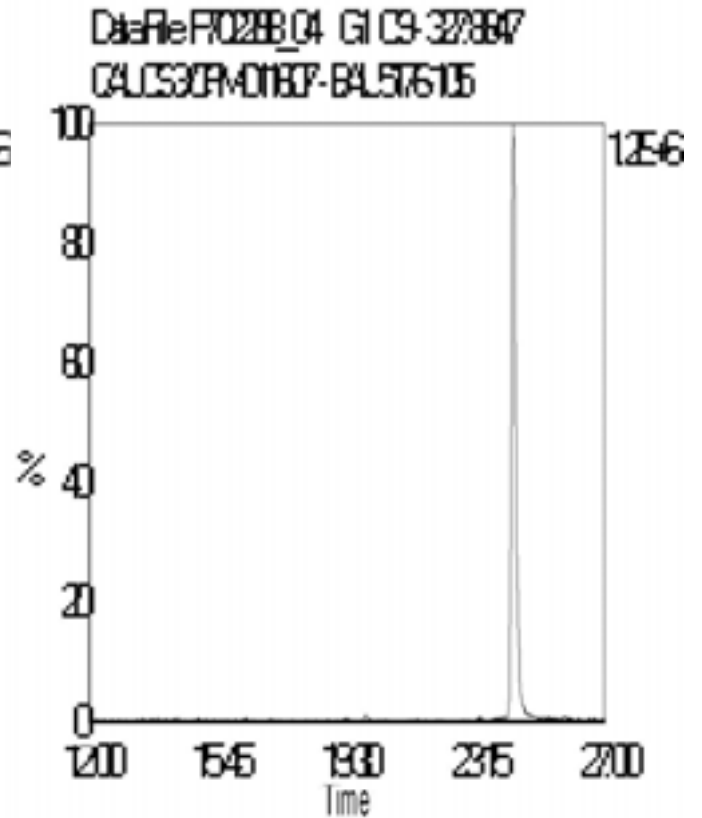
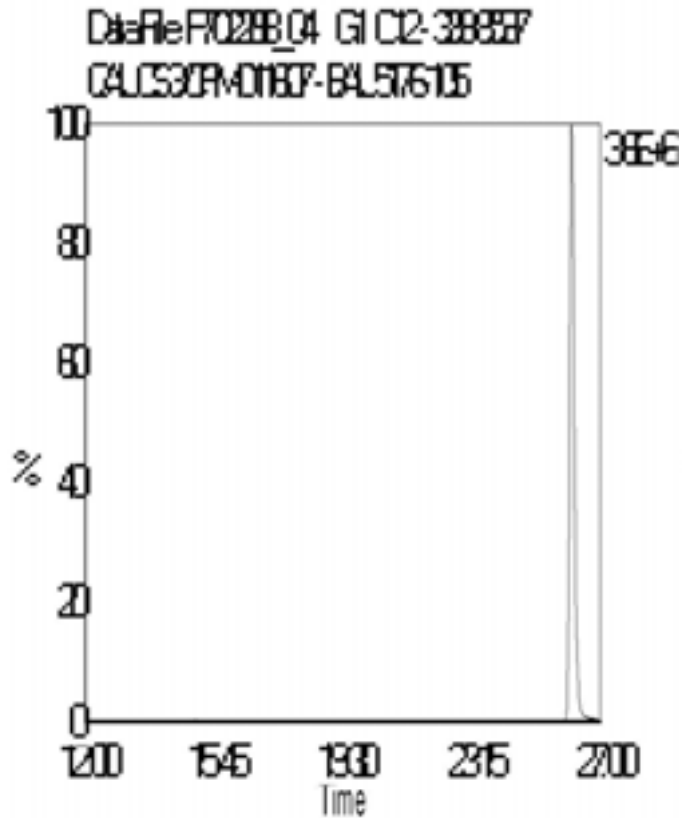
Date Acquired: 2/28/2007

Sample Description: CAL CS3/CPM-011607 - BAL 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70228B\_04

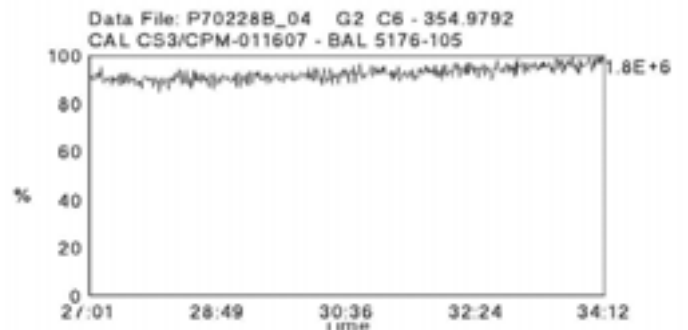
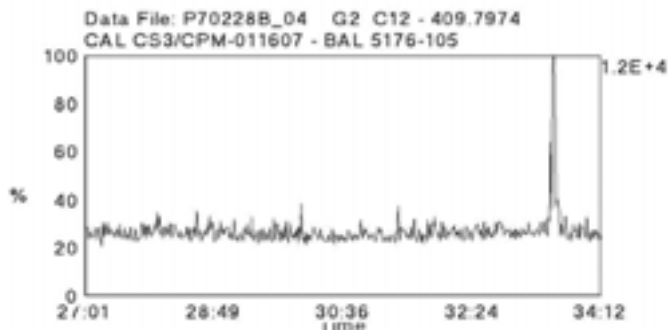
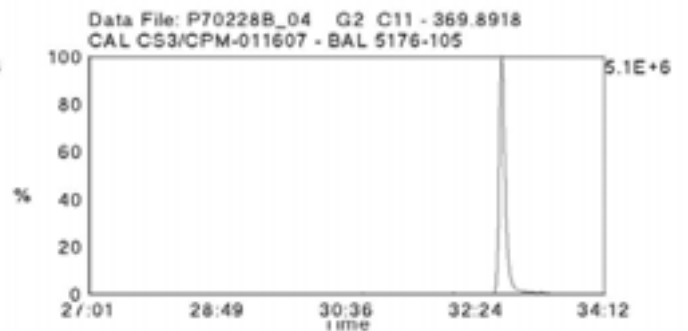
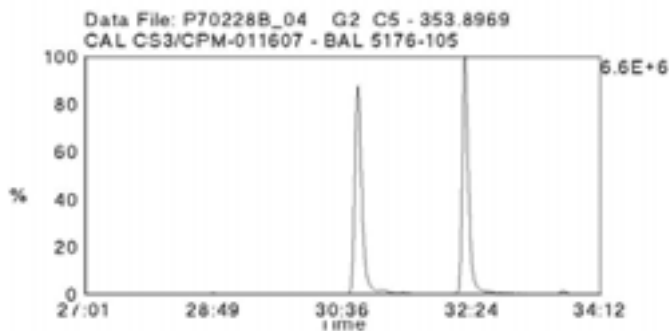
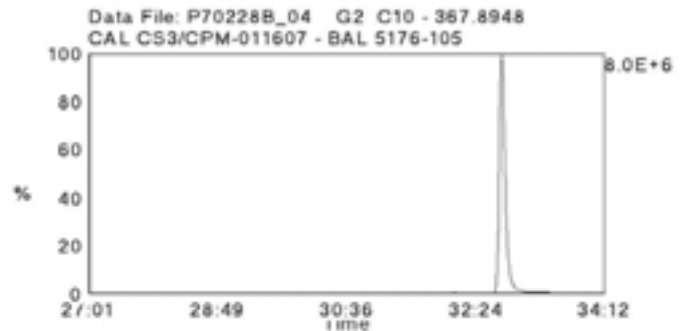
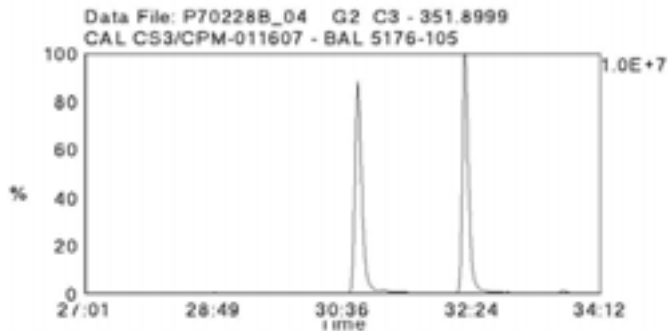
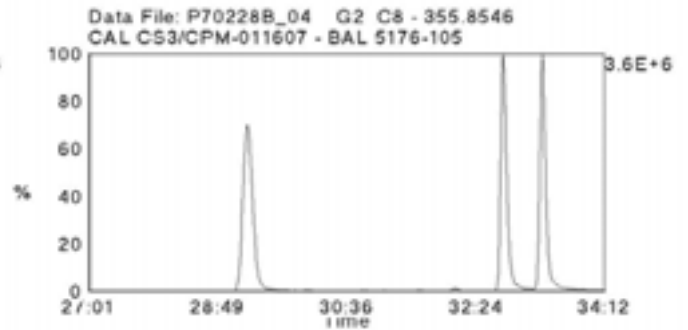
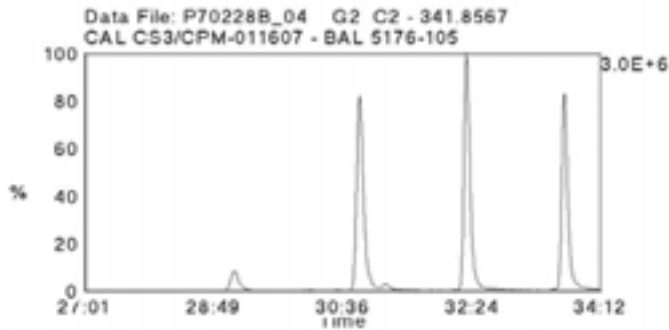
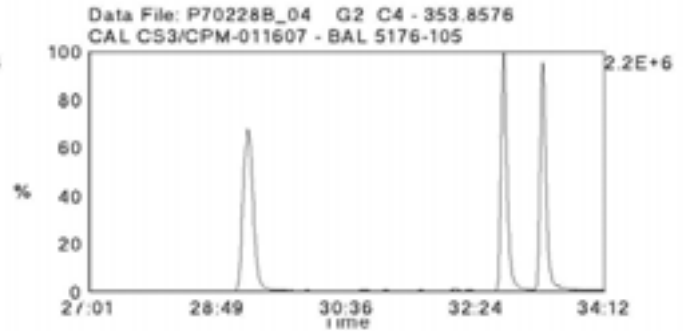
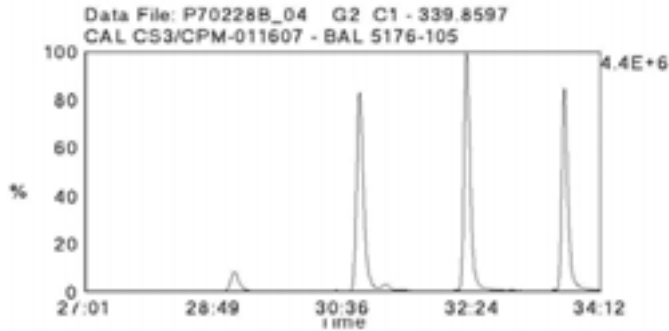
Date Acquired: 2/28/2007

Sample Description: CAL CS3/CPM-011607 - BAL 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70228B\_04

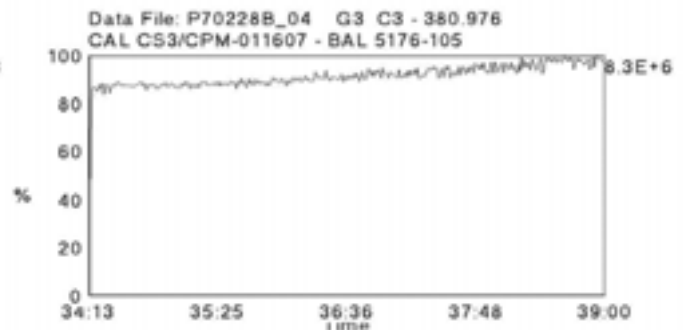
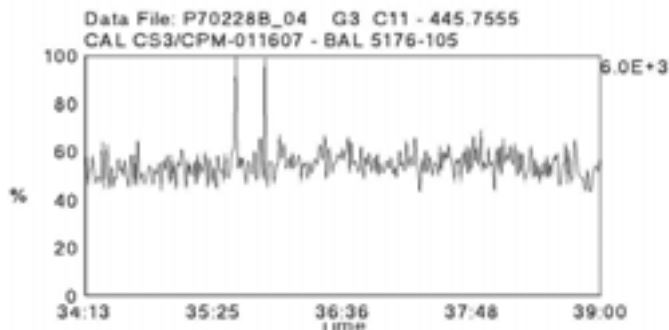
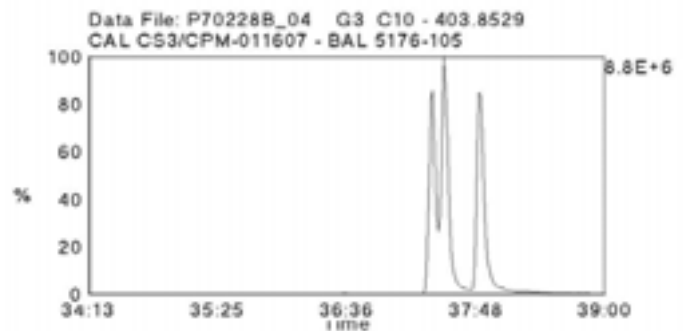
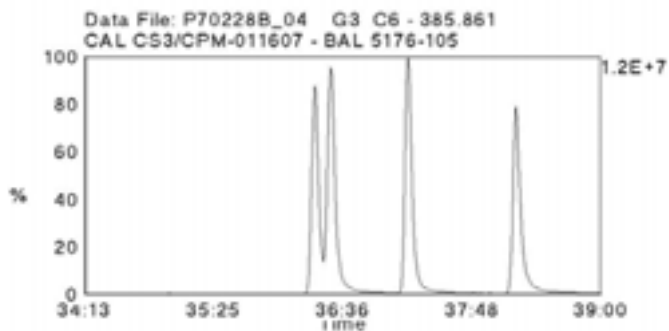
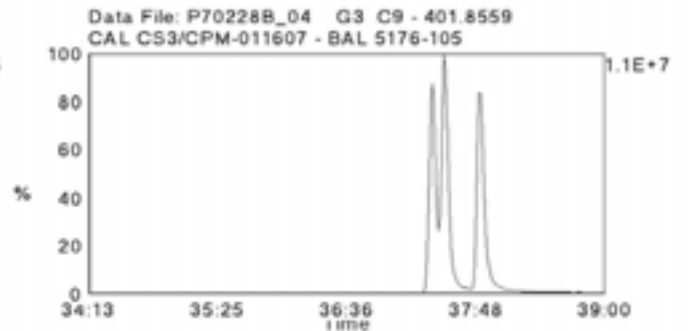
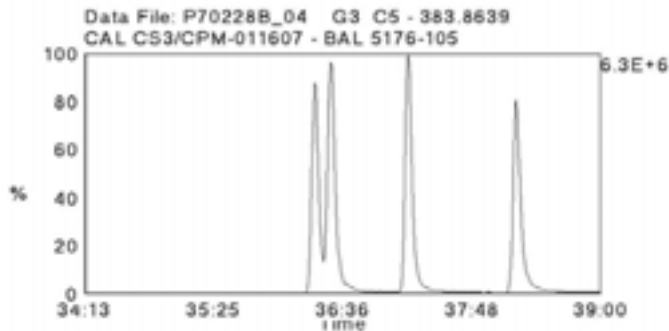
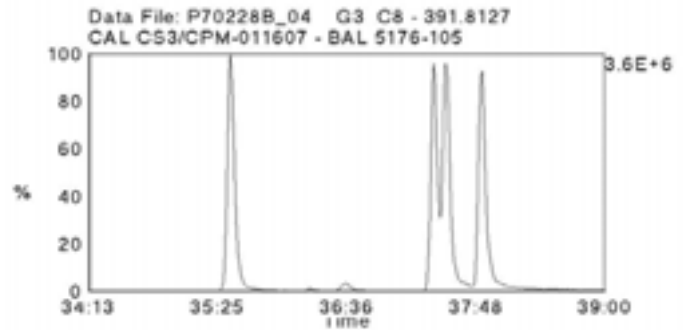
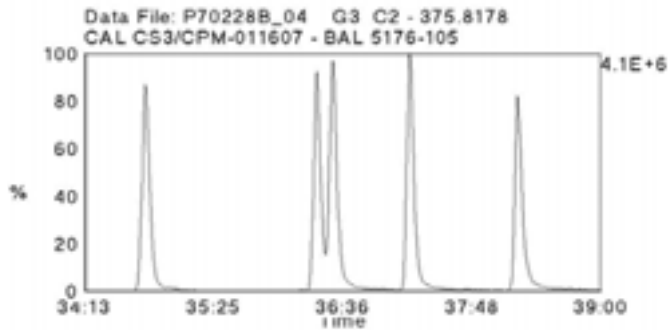
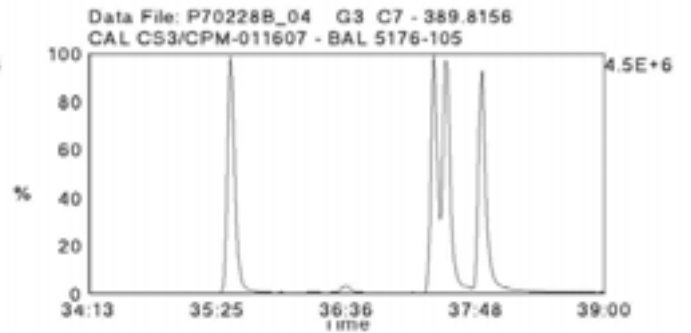
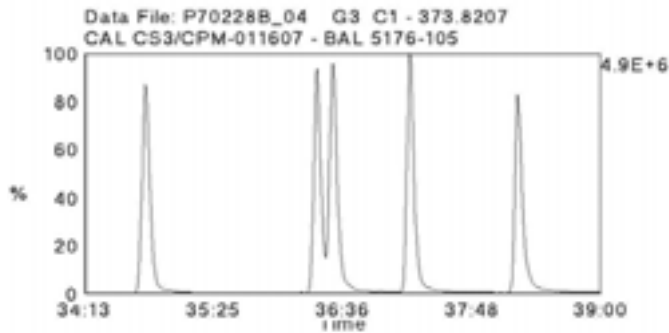
Date Acquired: 2/28/2007

Sample Description: CAL CS3/CPM-011607 - BAL 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)





Data File Name: P70228B\_04

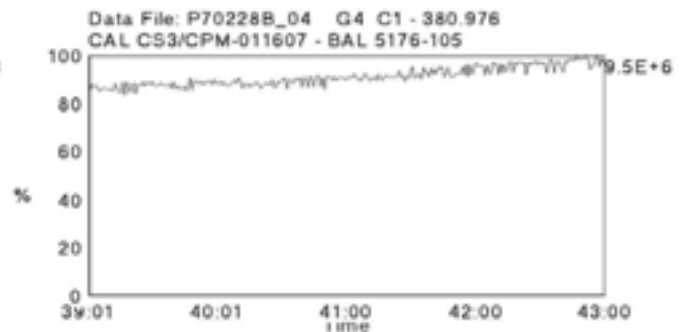
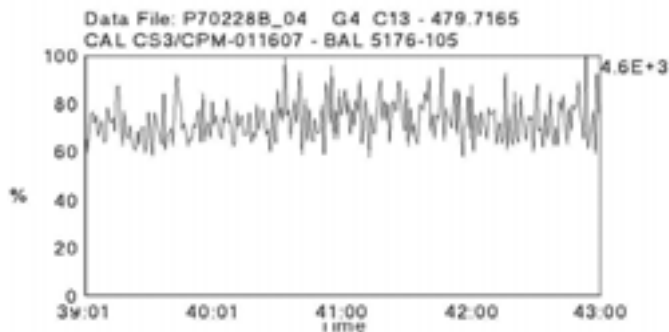
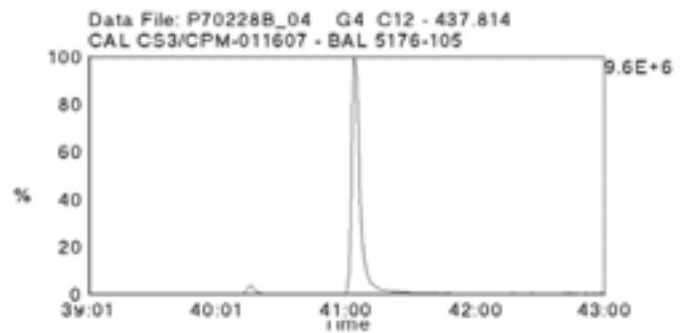
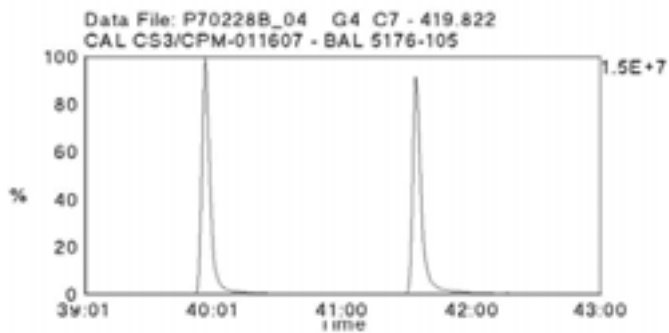
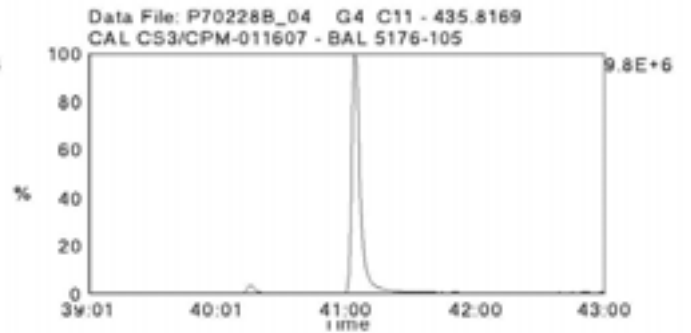
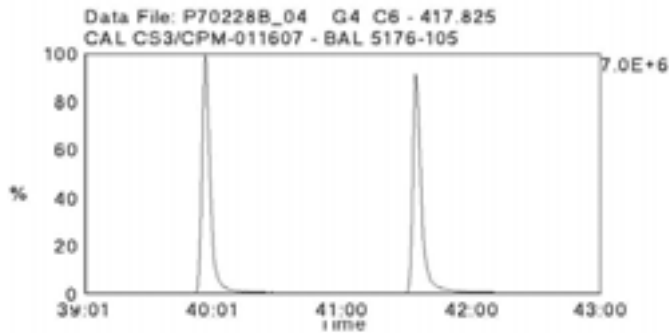
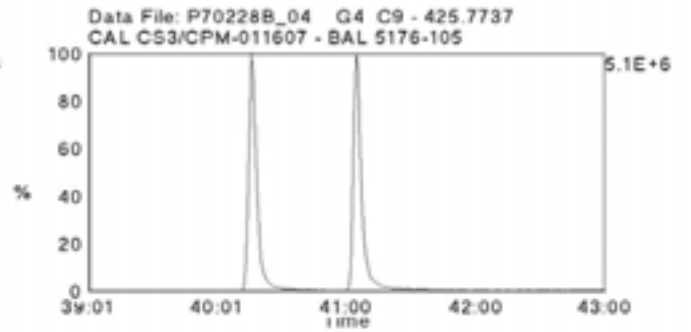
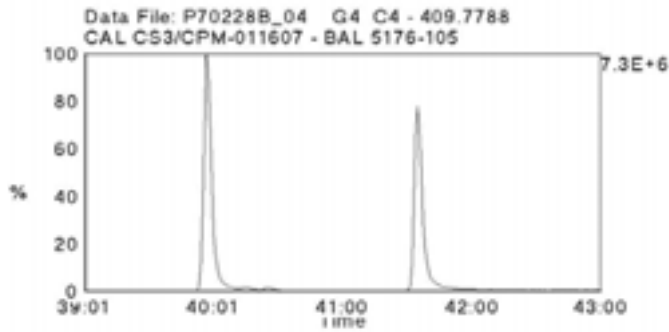
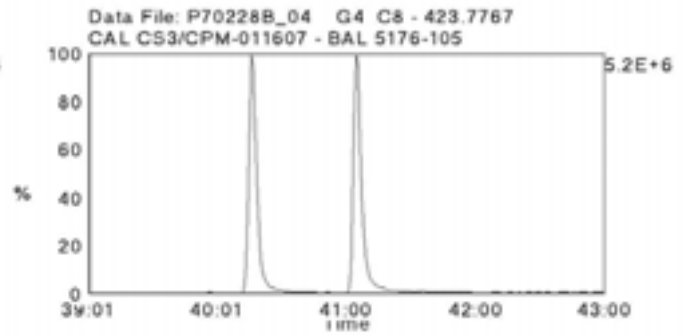
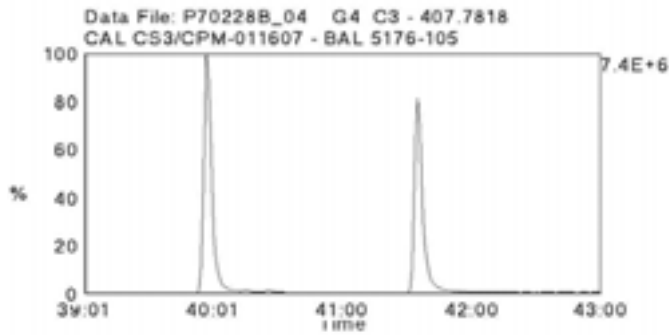
Date Acquired: 2/28/2007

Sample Description: CAL CS3/CPM-011607 - BAL 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70228B\_04

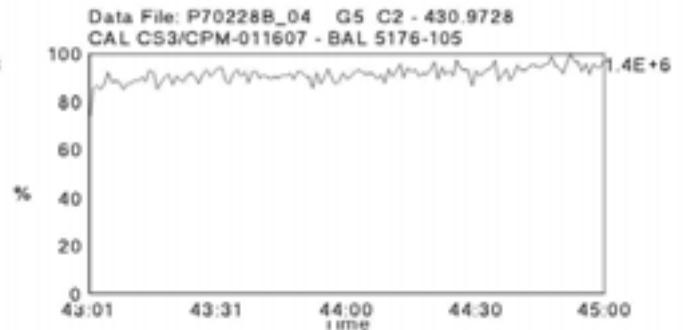
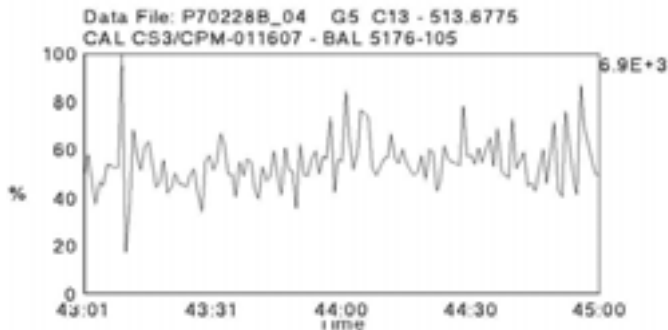
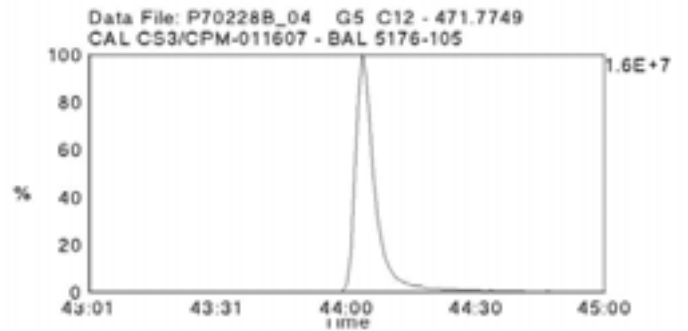
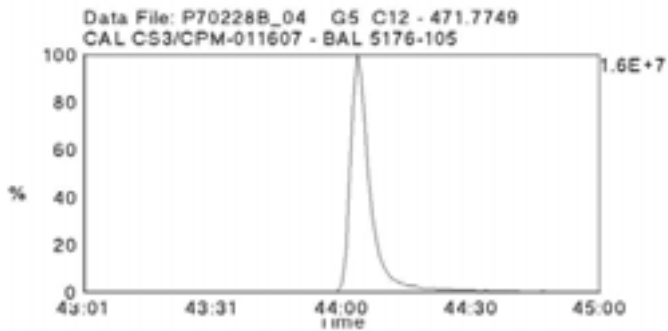
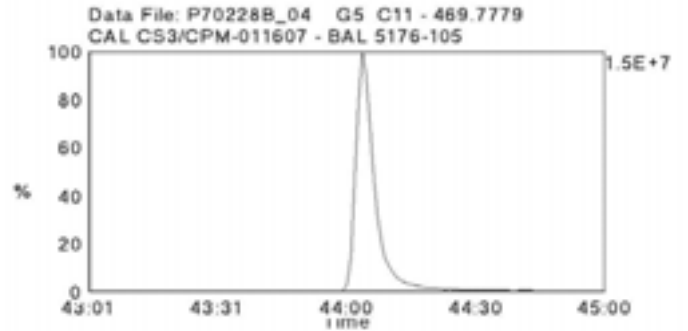
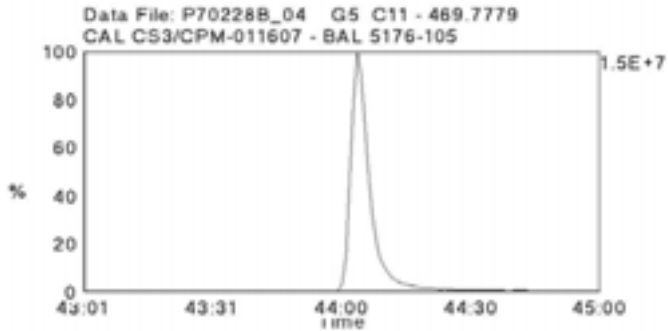
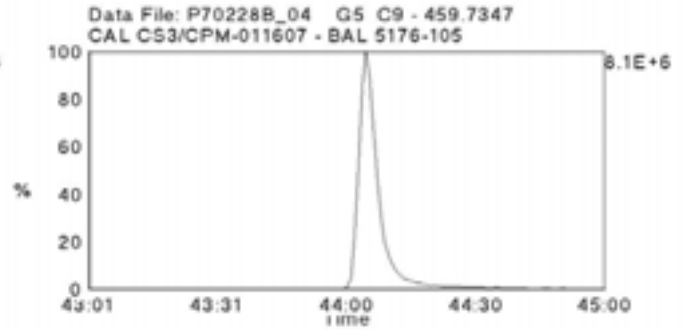
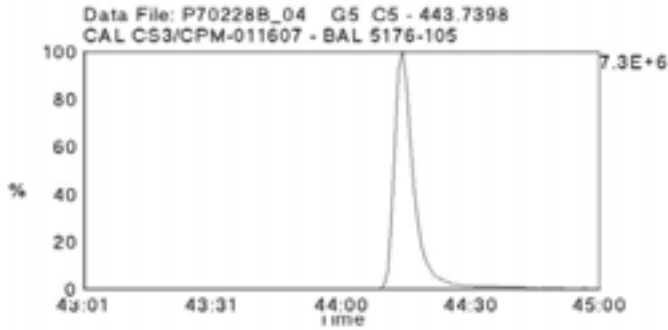
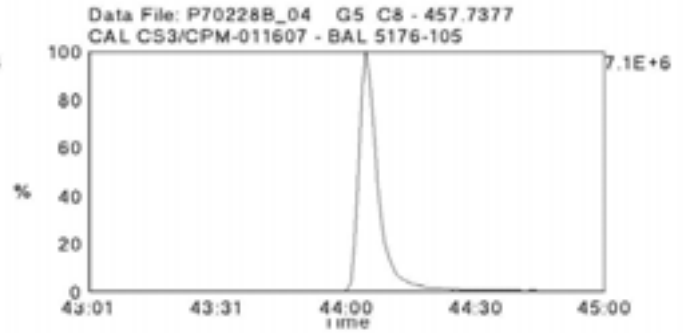
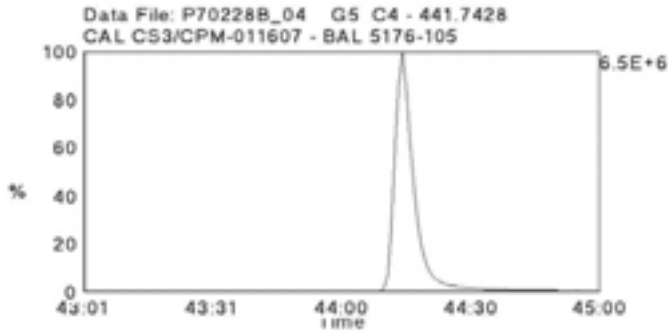
Date Acquired: 2/28/2007

Sample Description: CAL CS3/CPM-011607 - BAL 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70306A\_03

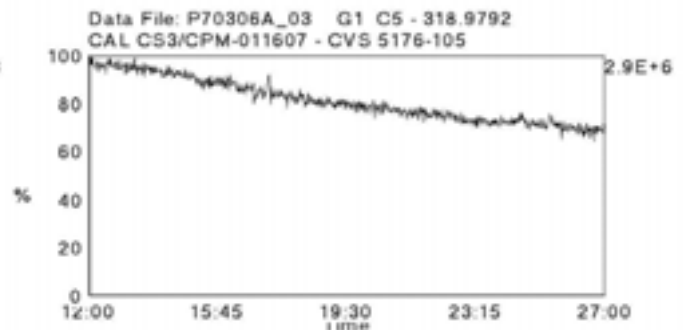
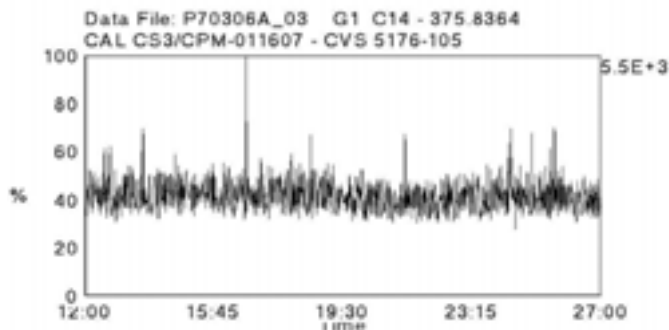
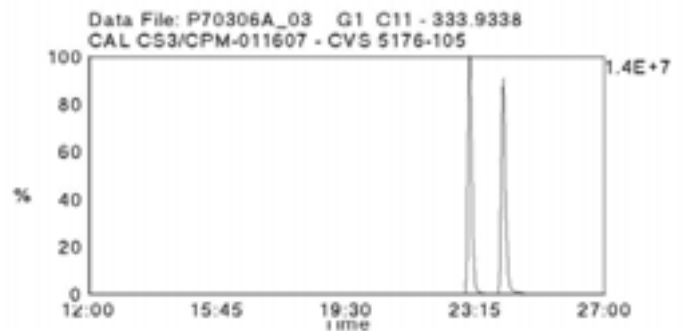
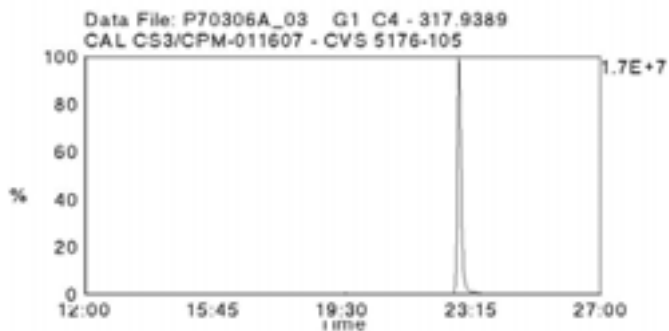
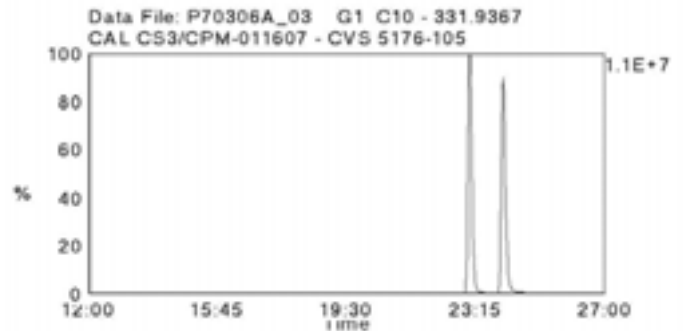
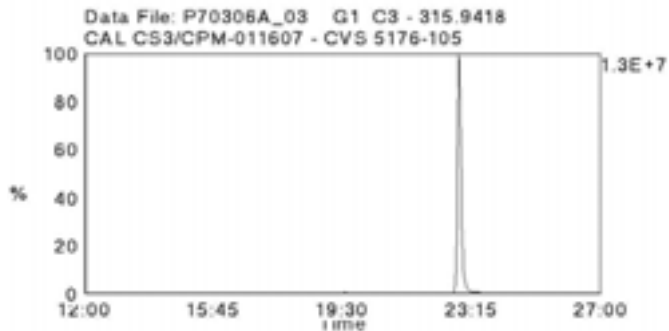
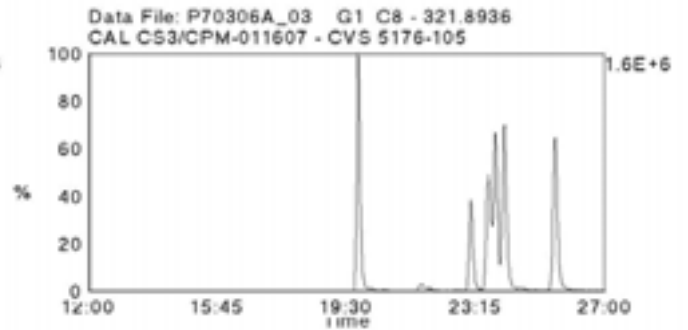
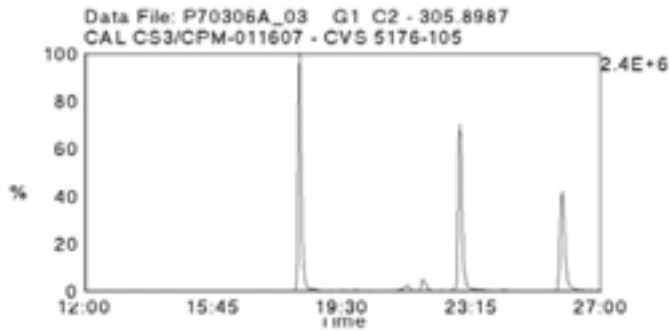
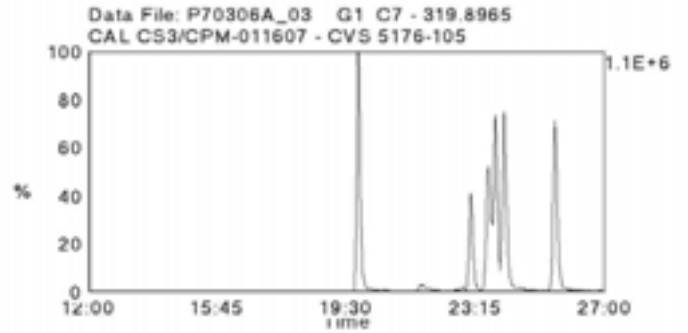
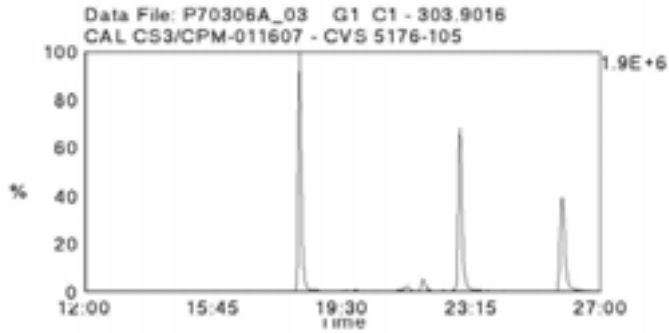
Date Acquired: 3/6/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70306A\_03

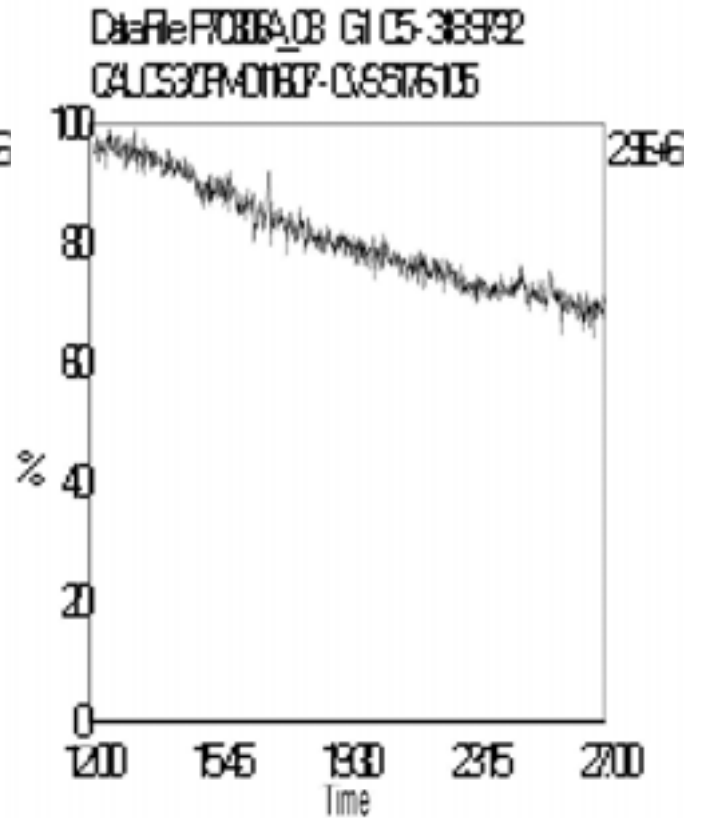
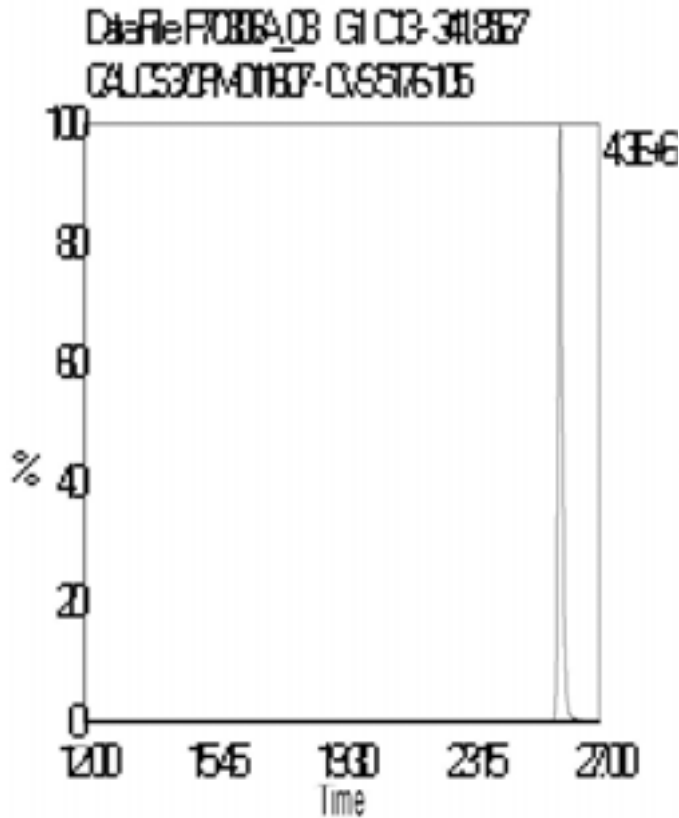
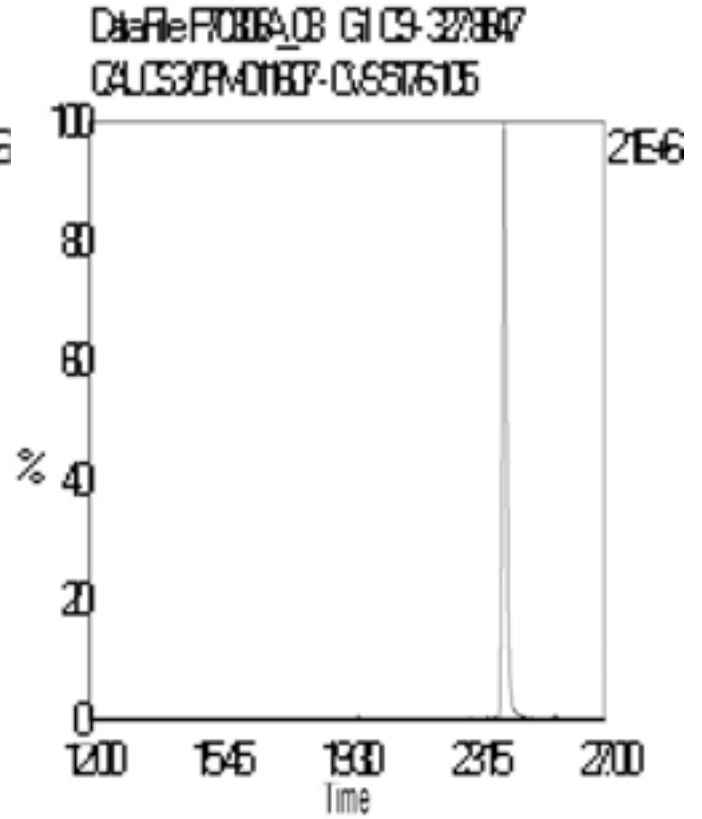
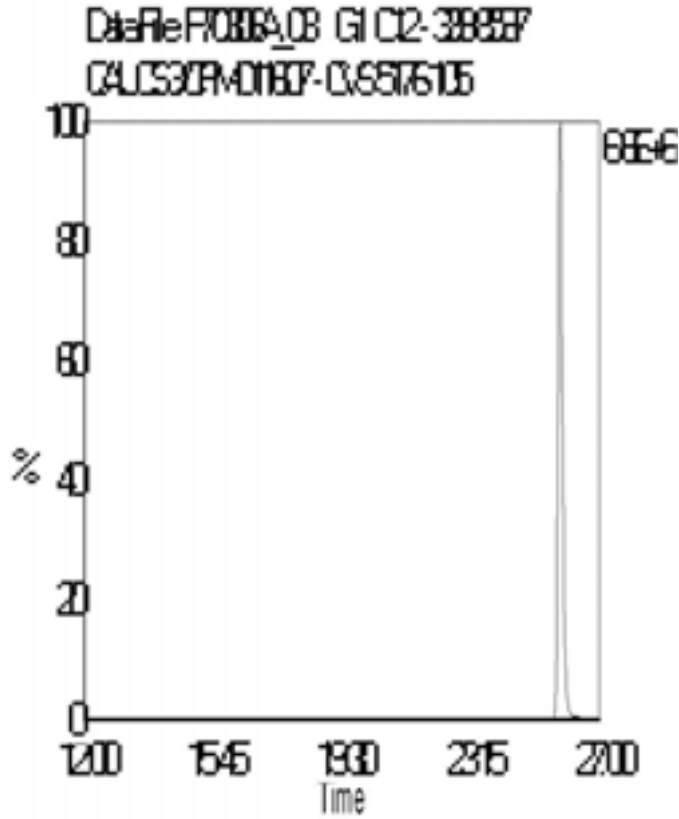
Date Acquired: 3/6/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70306A\_03

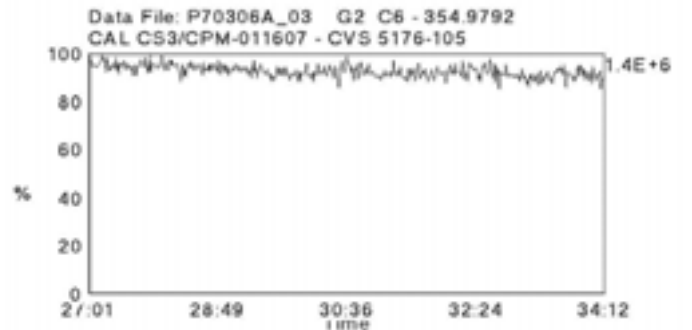
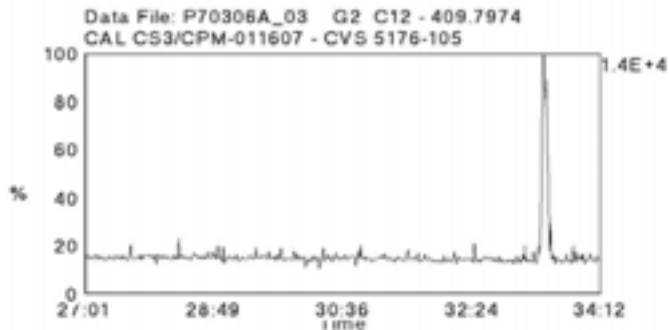
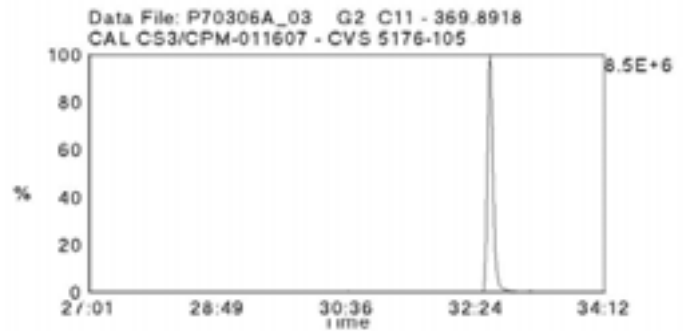
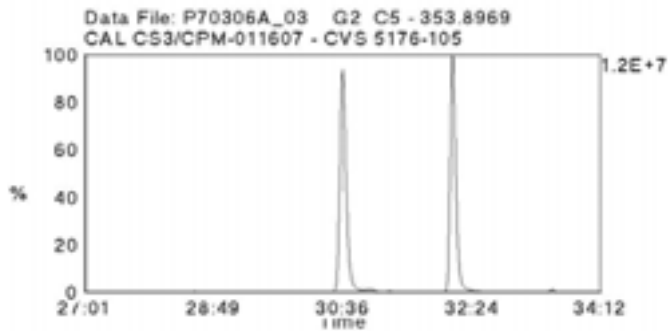
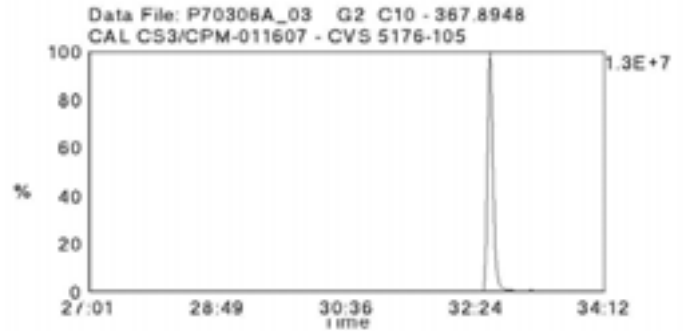
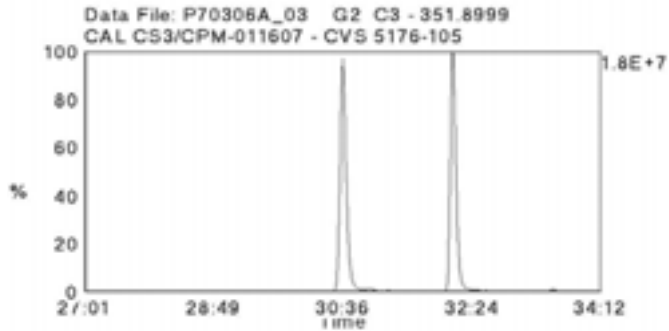
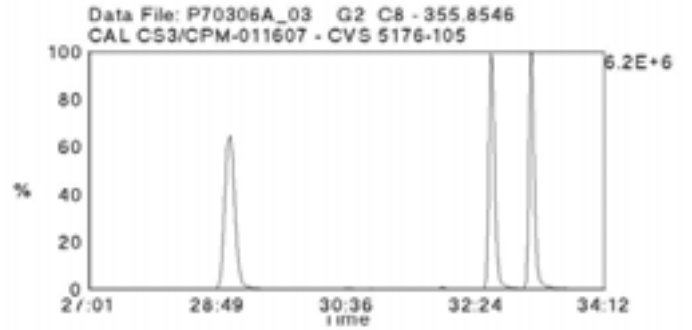
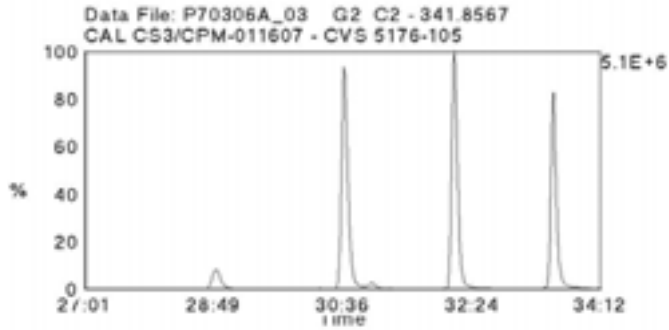
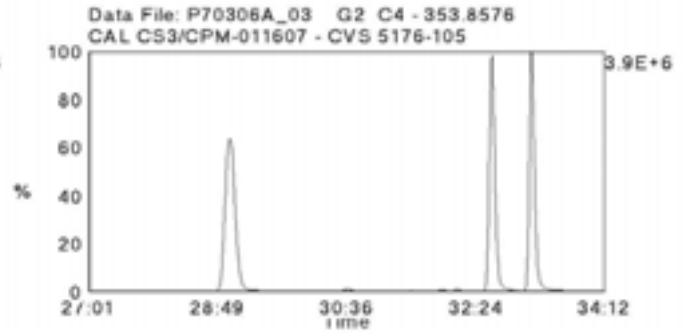
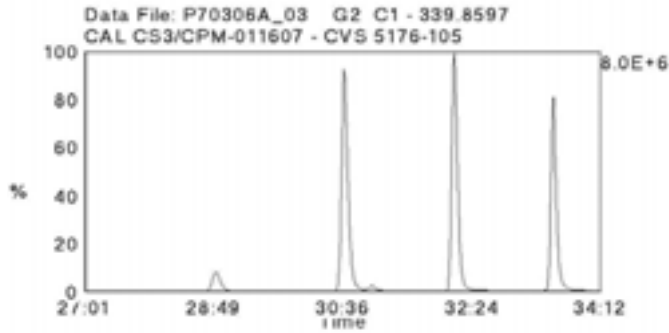
Date Acquired: 3/6/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70306A\_03

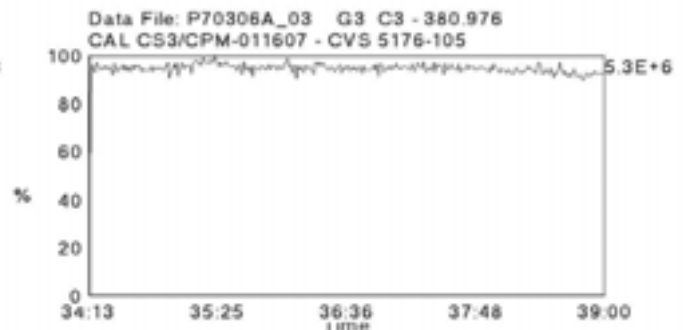
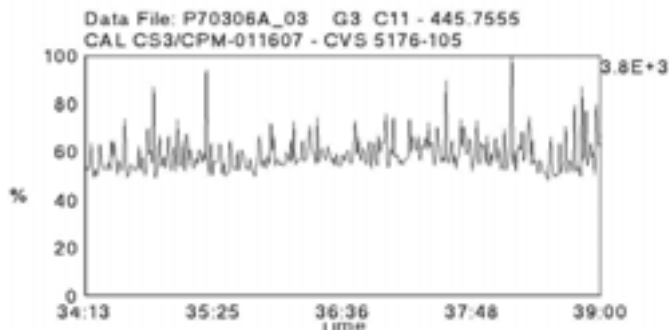
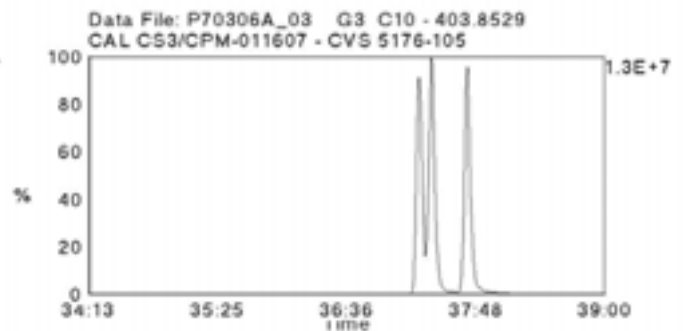
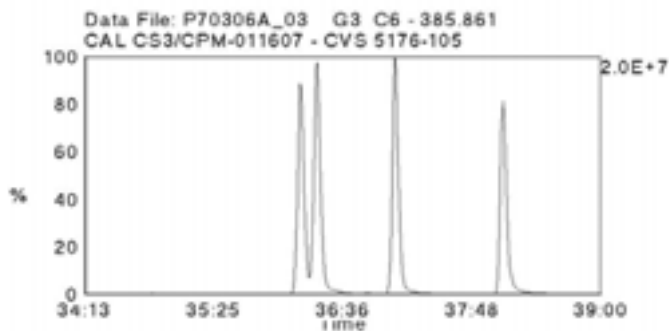
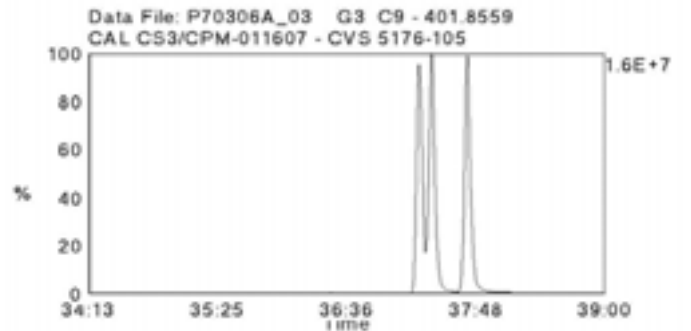
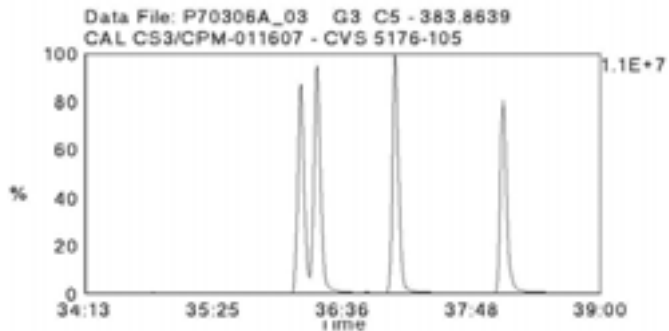
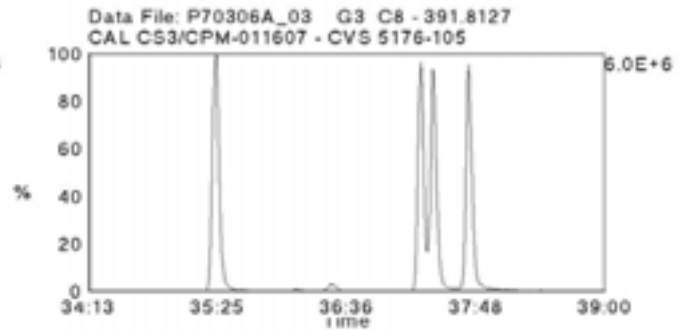
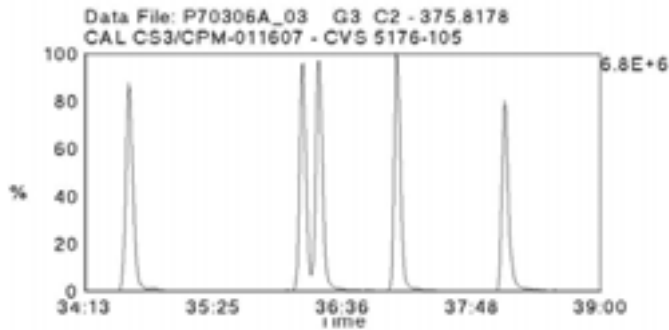
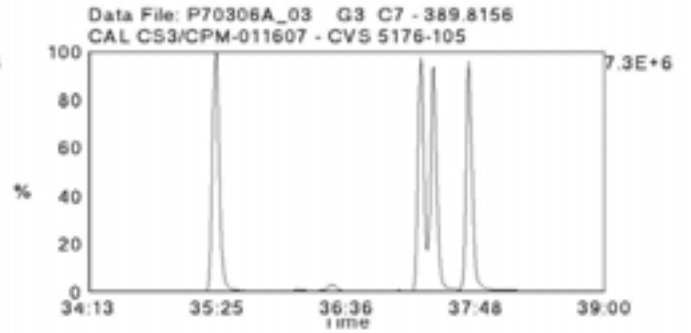
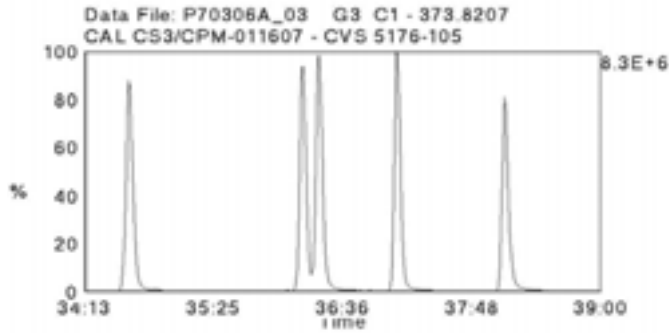
Date Acquired: 3/6/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70306A\_03

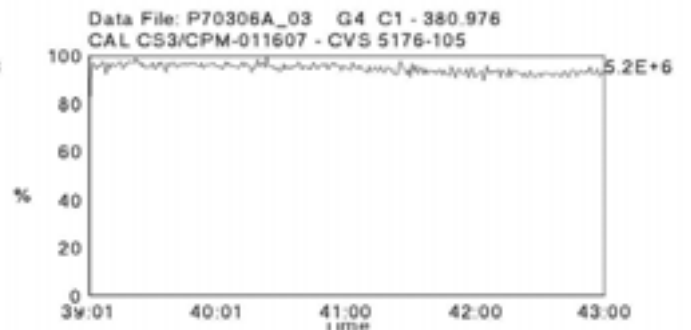
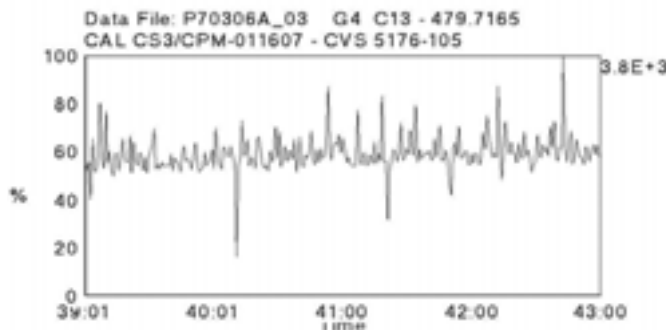
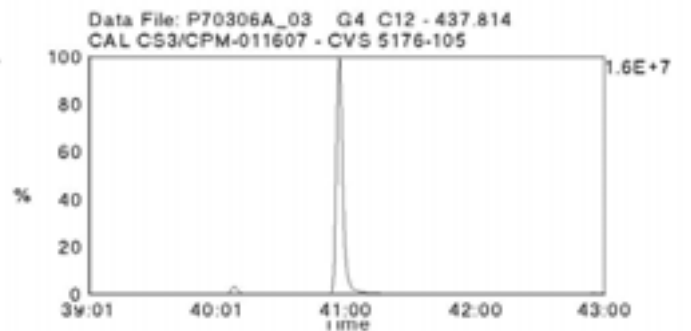
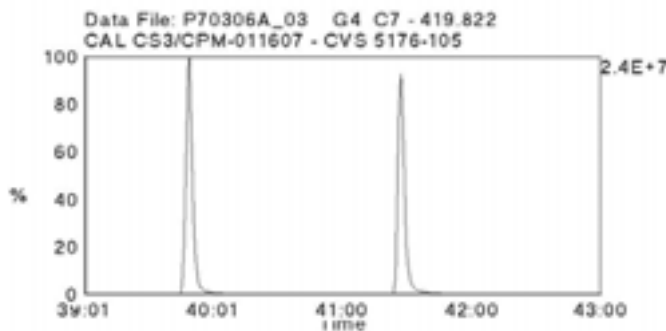
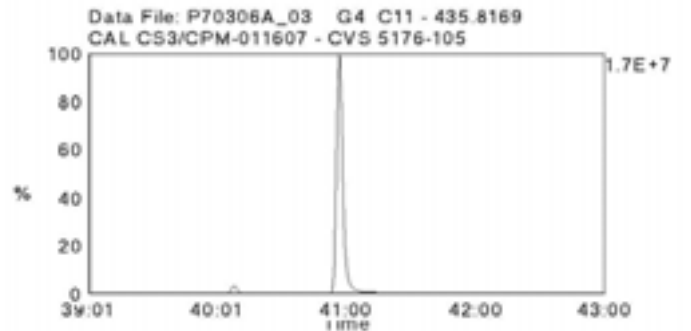
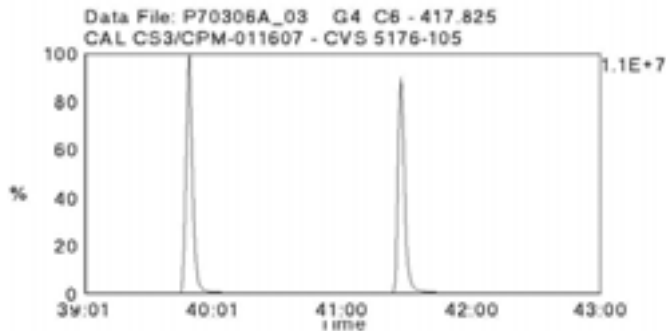
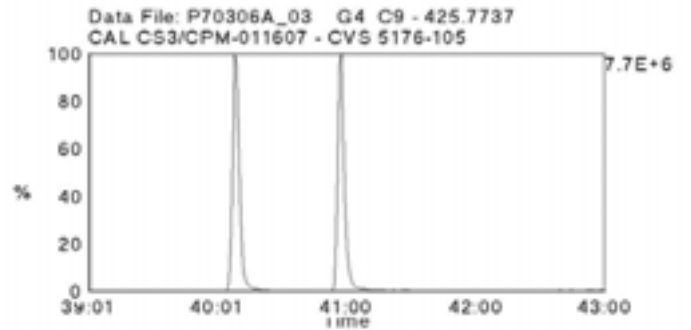
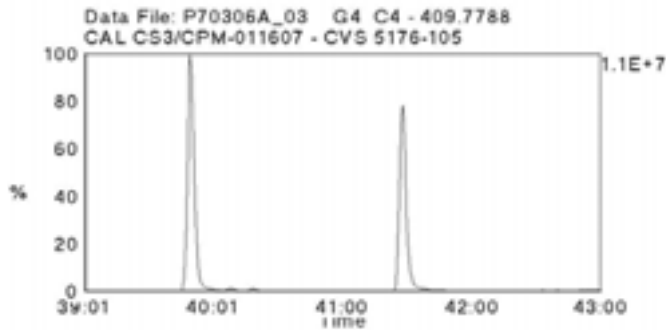
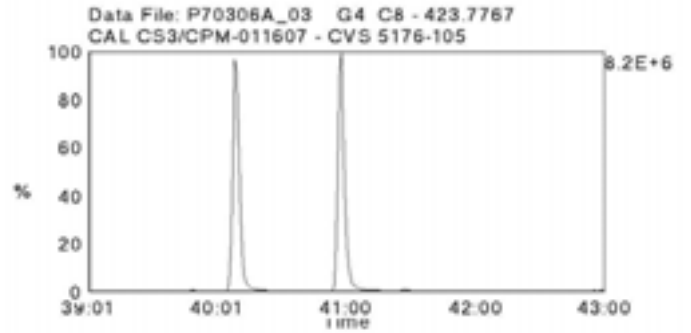
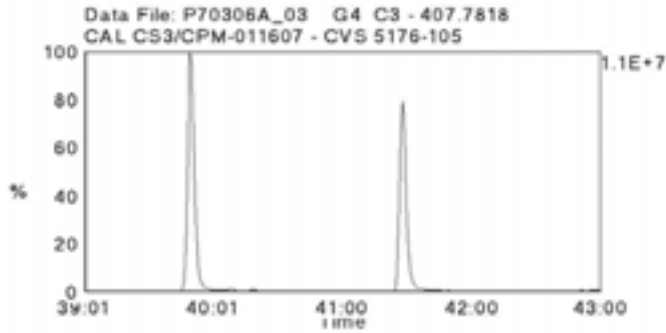
Date Acquired: 3/6/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70306A\_03

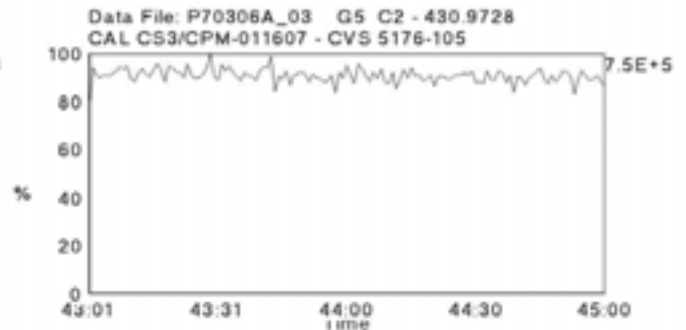
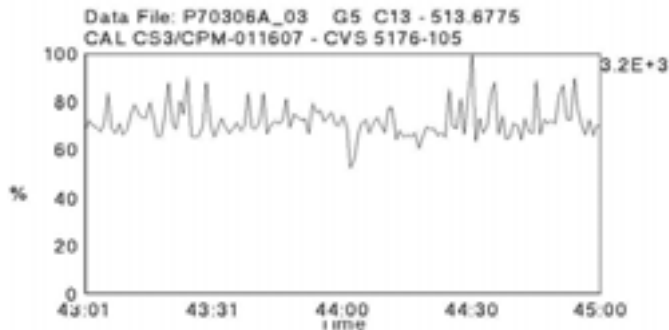
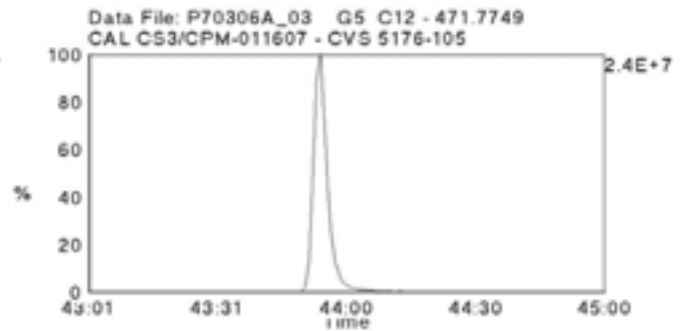
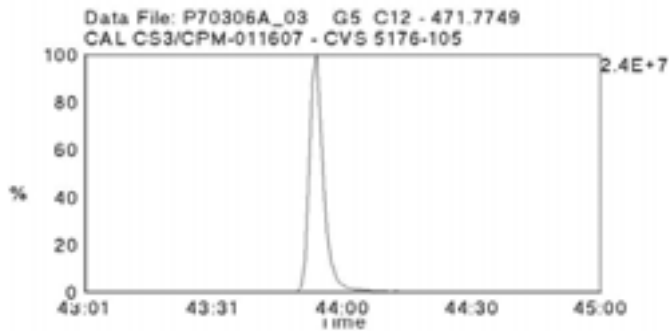
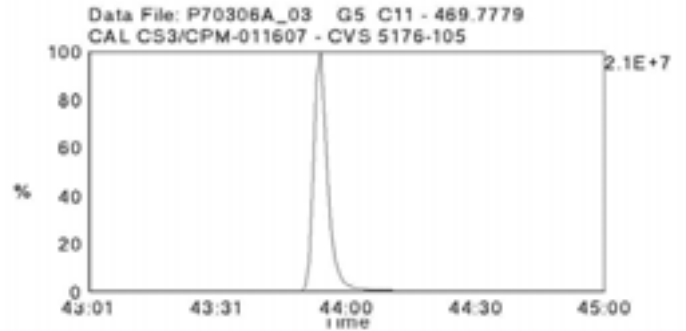
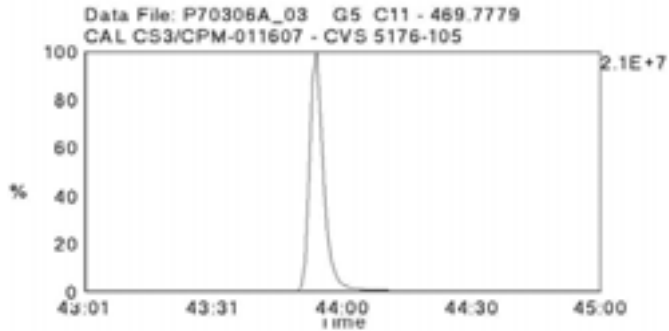
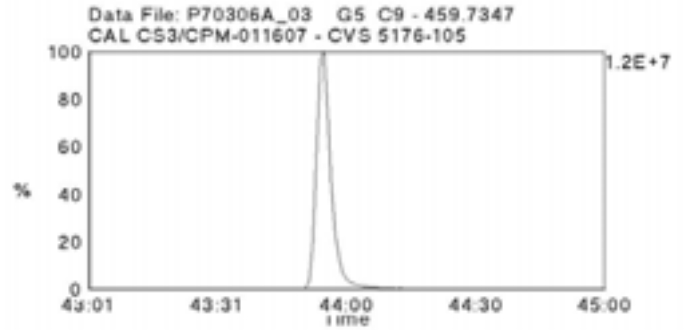
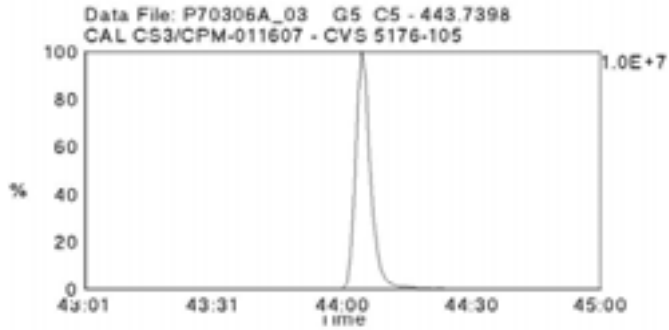
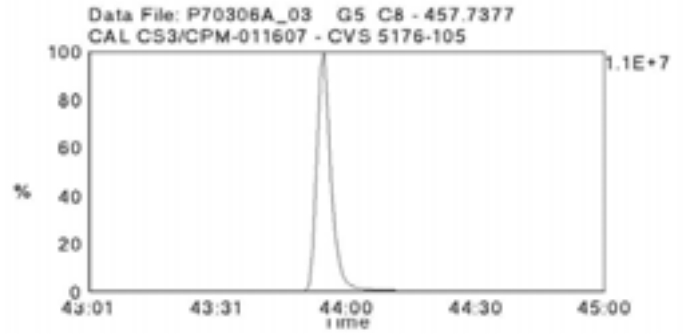
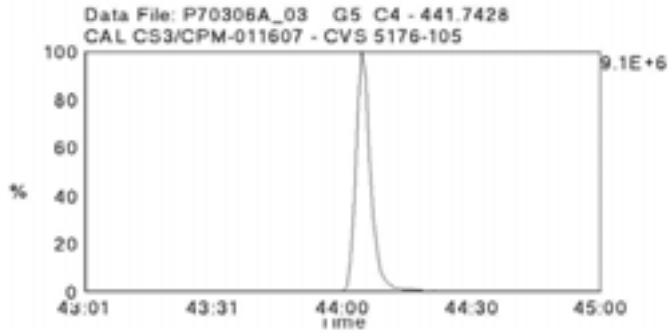
Date Acquired: 3/6/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)





Data File Name: P70306A\_18

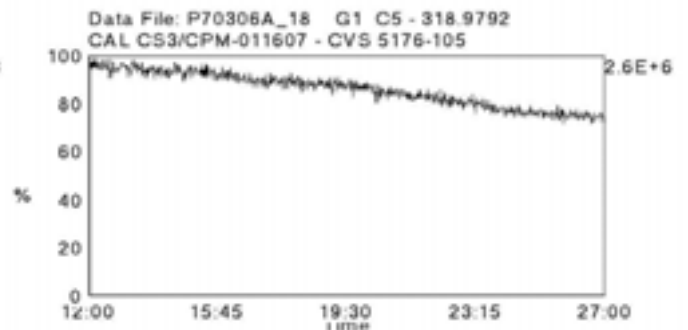
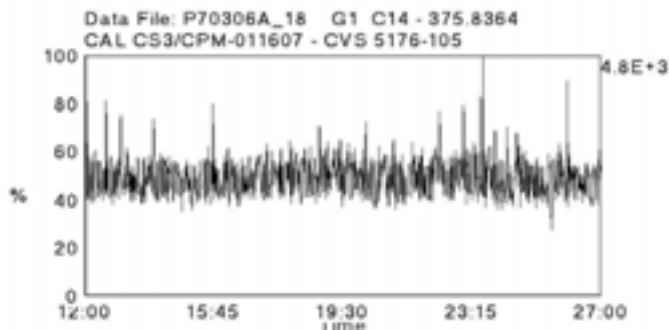
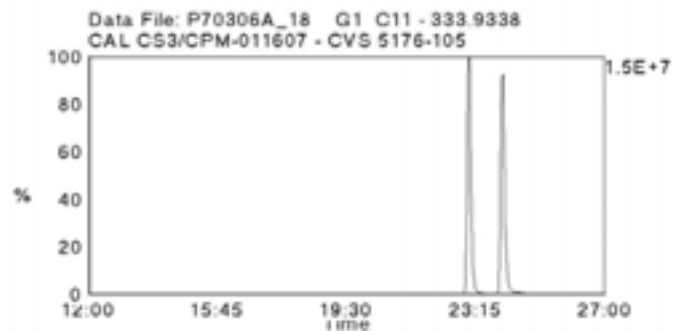
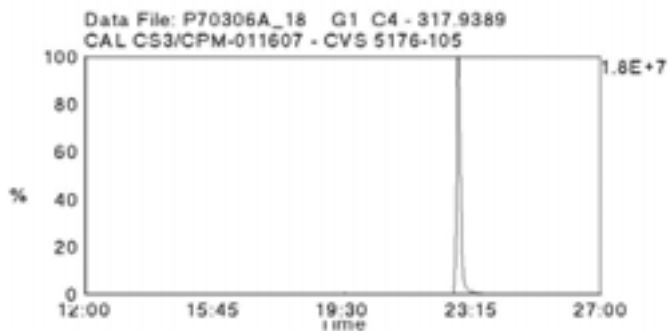
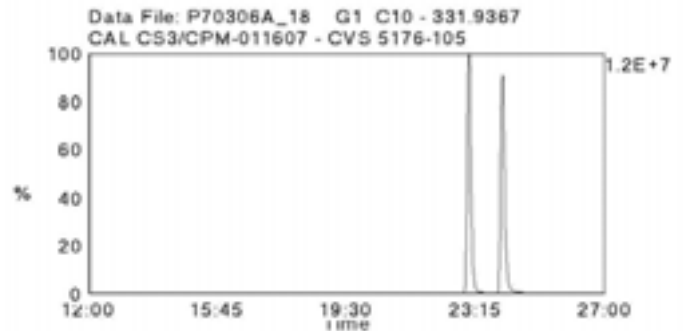
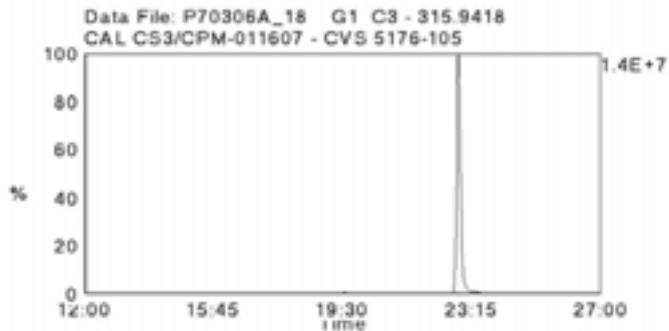
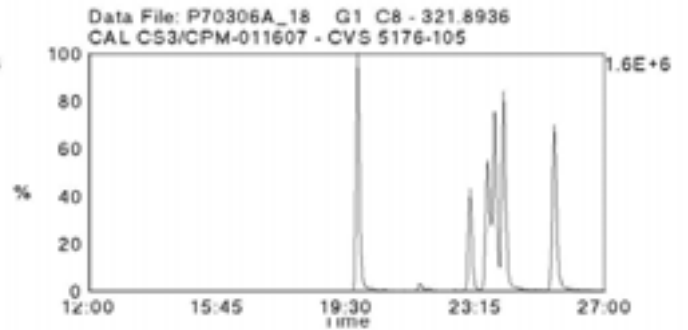
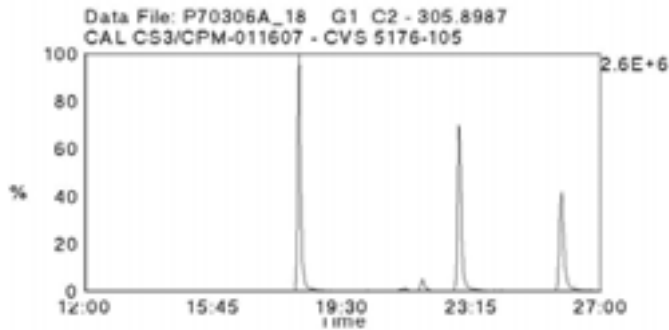
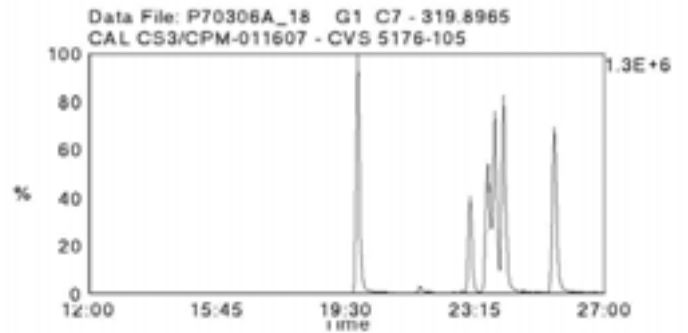
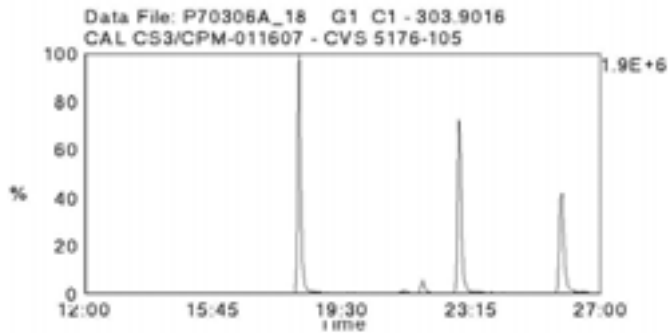
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70306A\_18

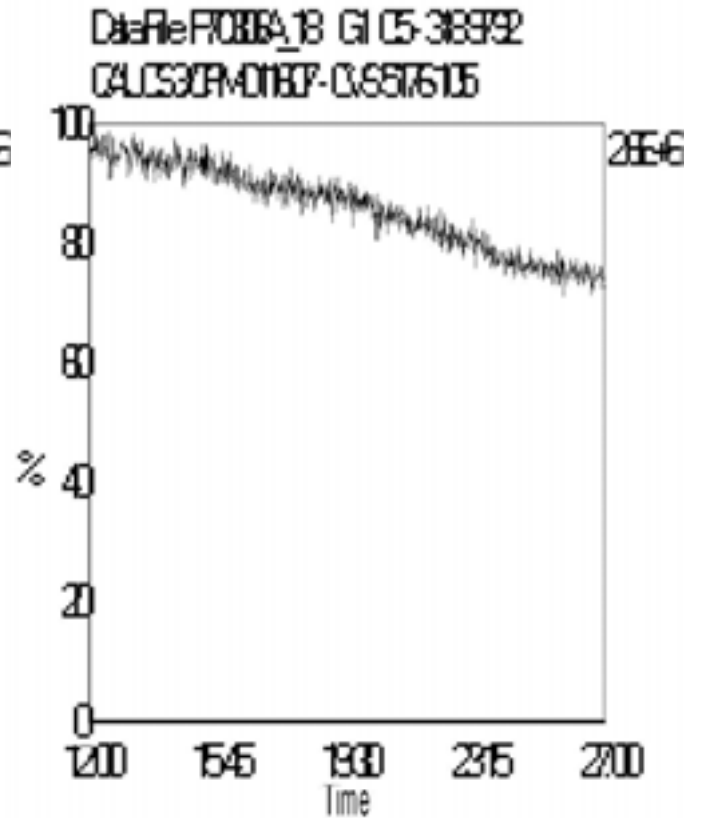
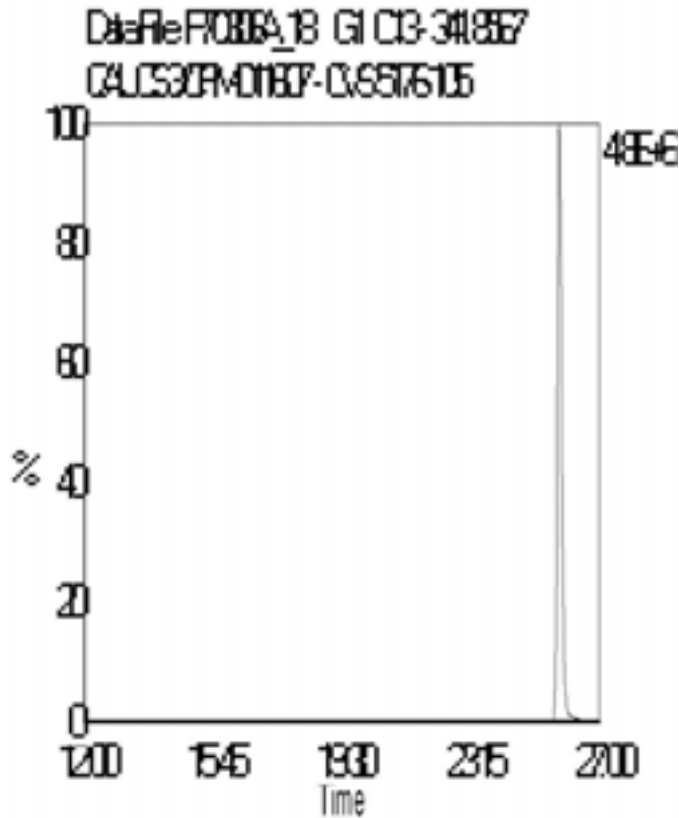
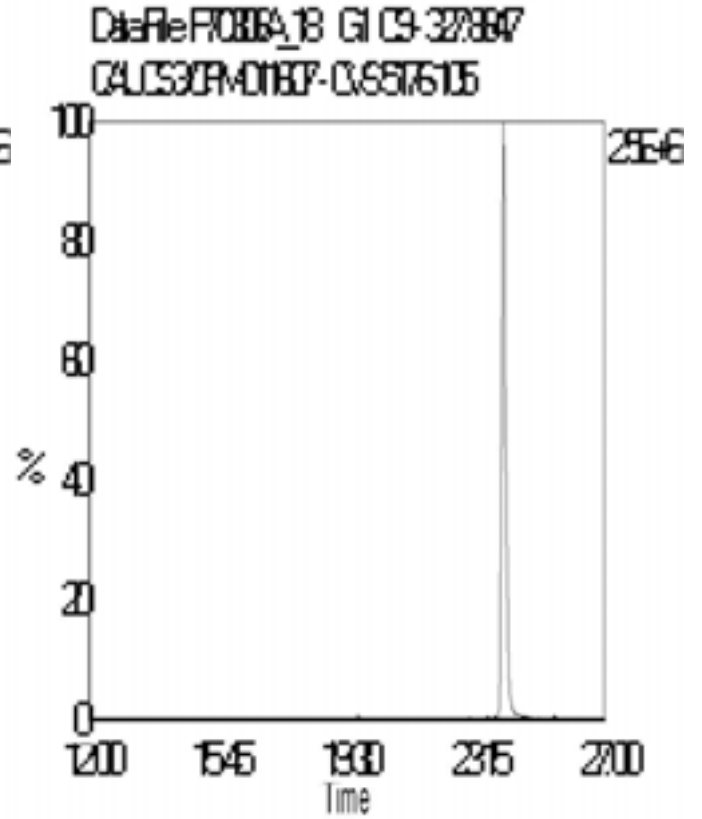
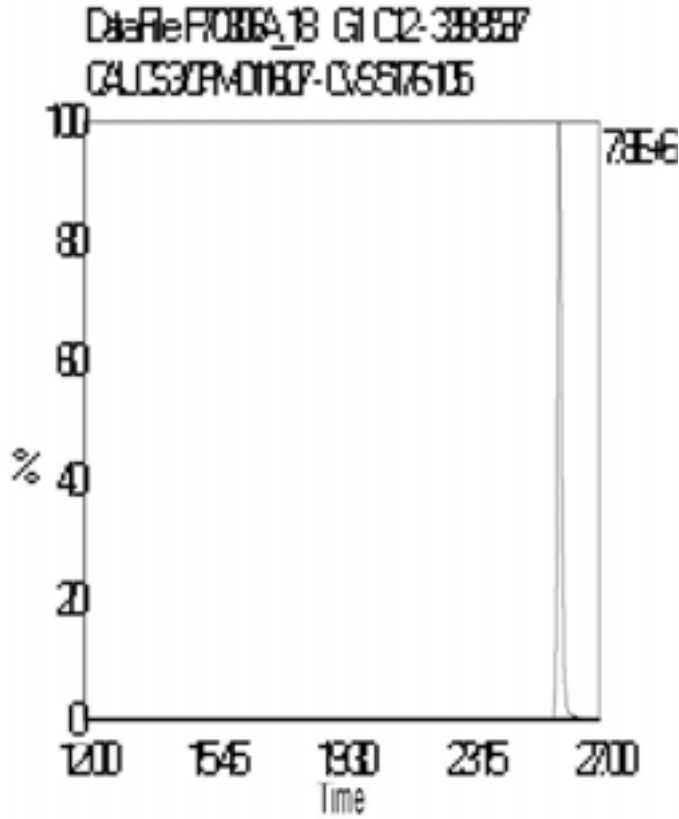
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Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



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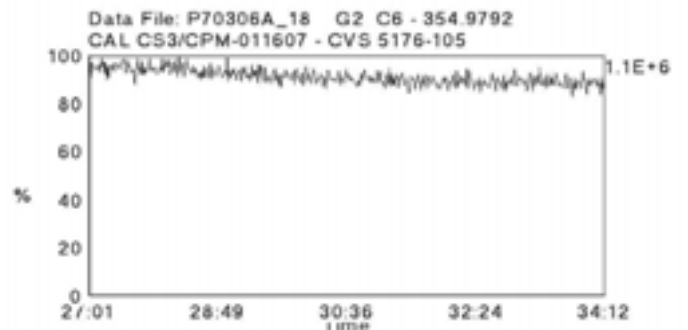
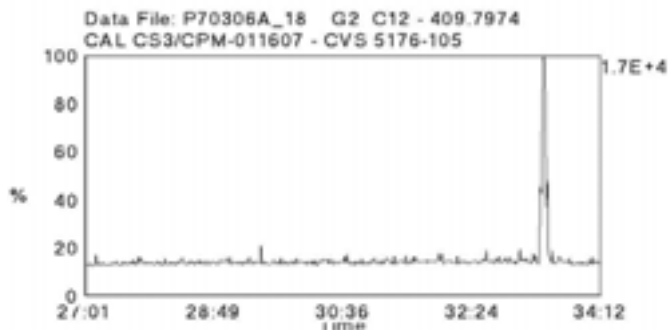
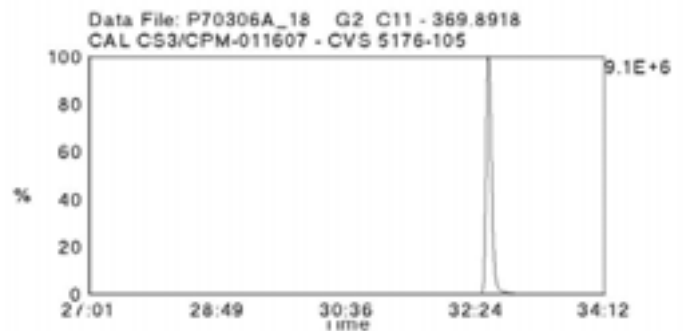
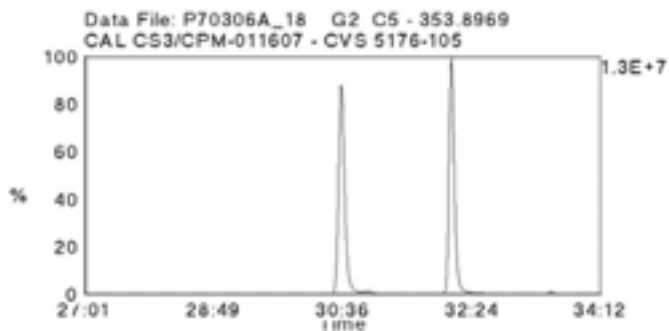
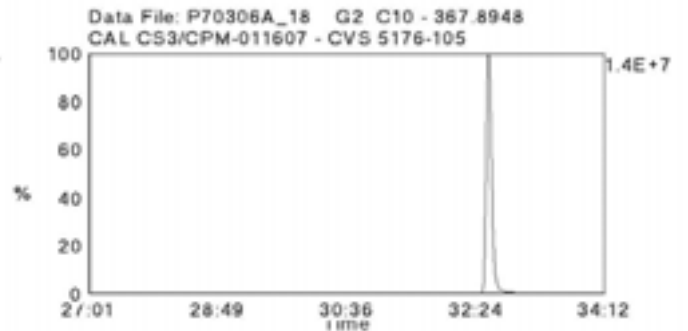
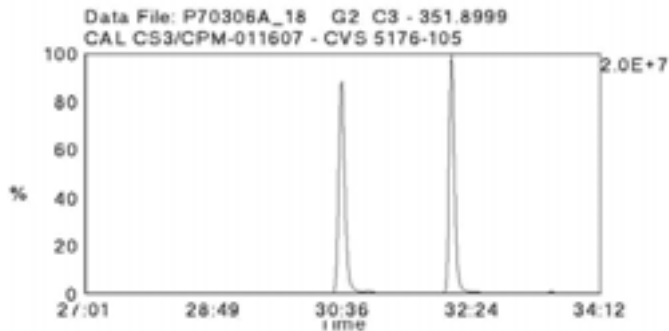
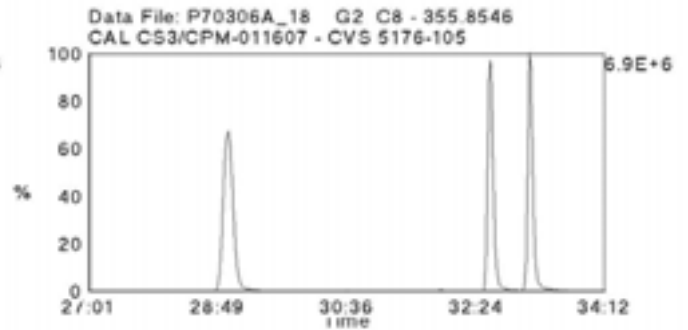
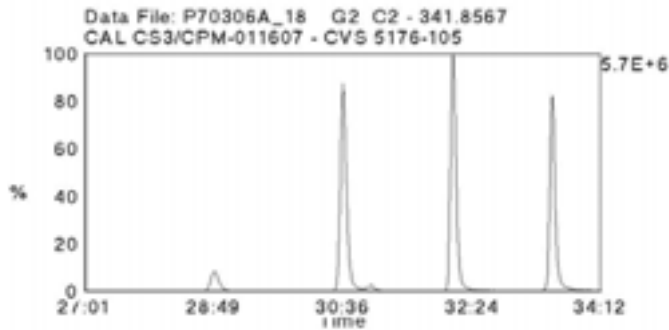
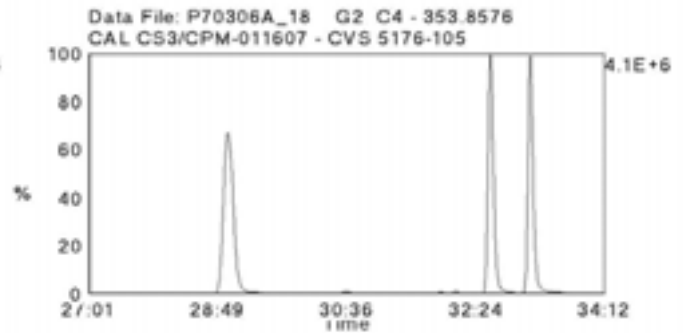
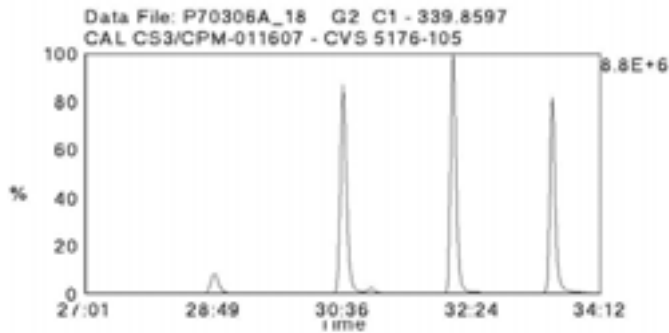
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70306A\_18

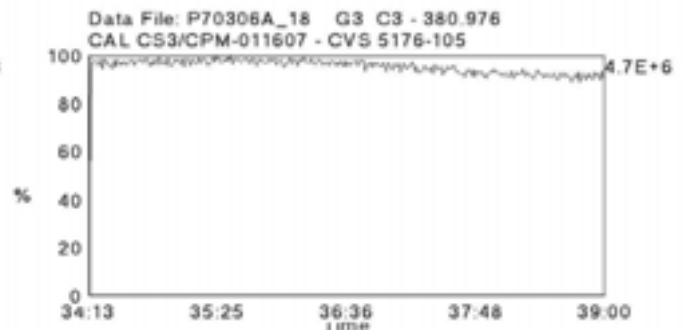
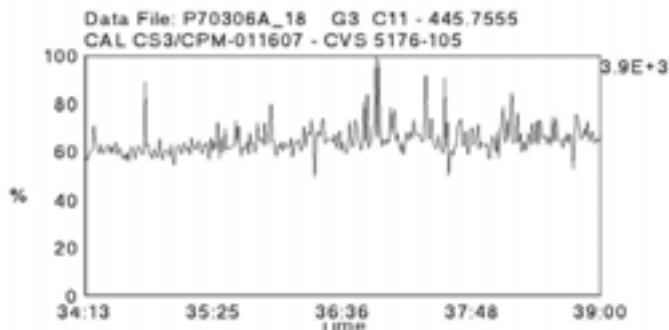
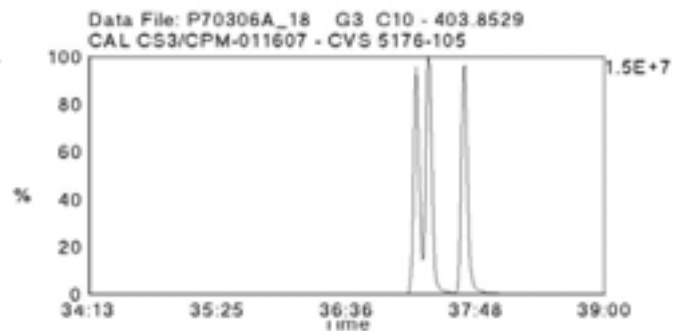
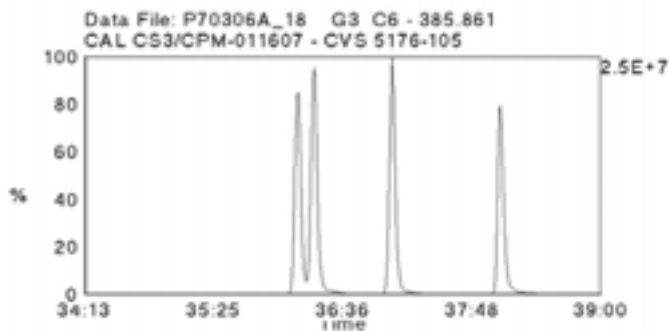
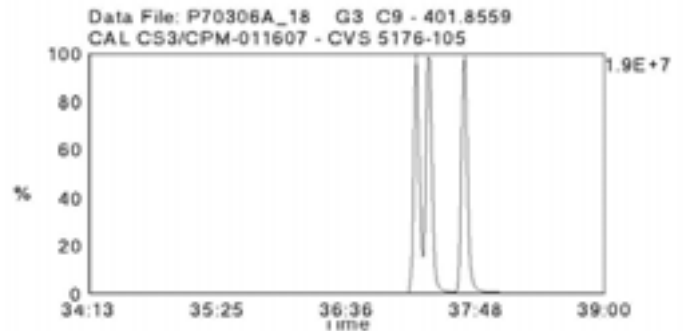
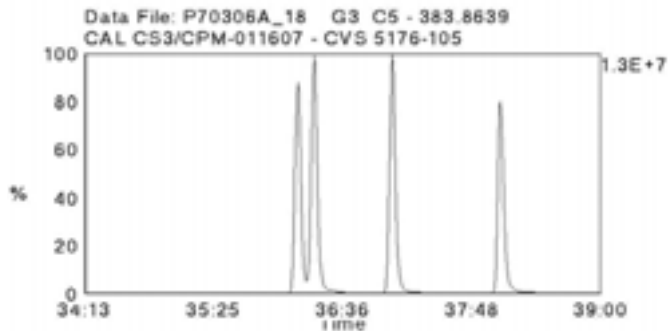
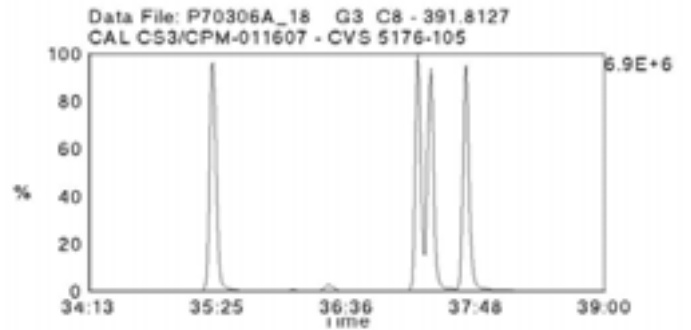
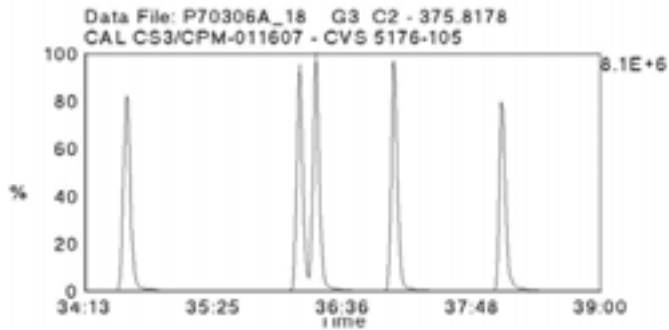
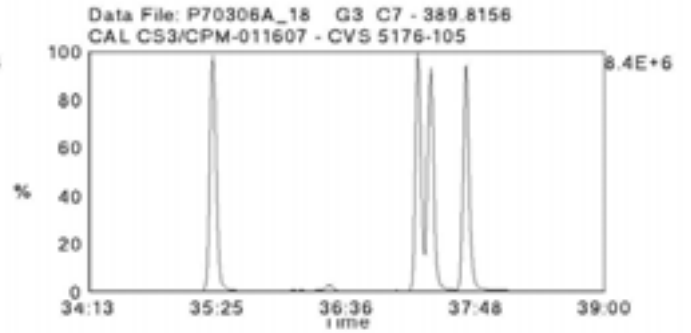
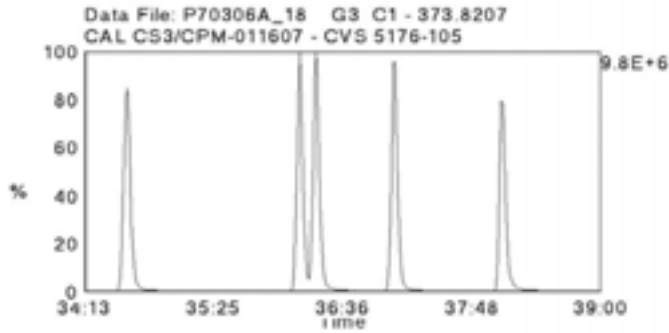
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70306A\_18

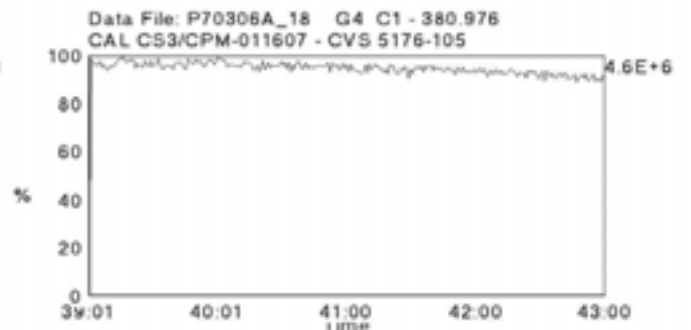
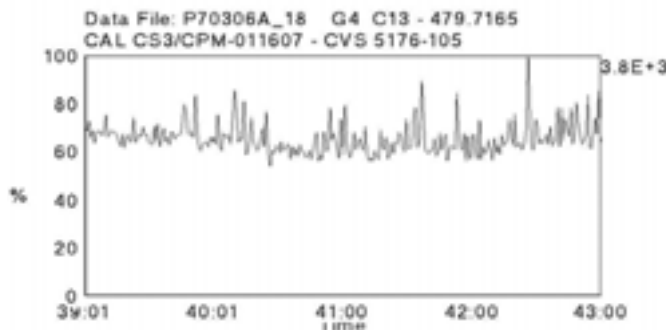
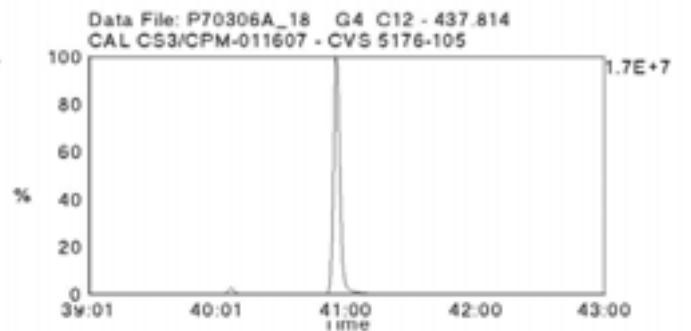
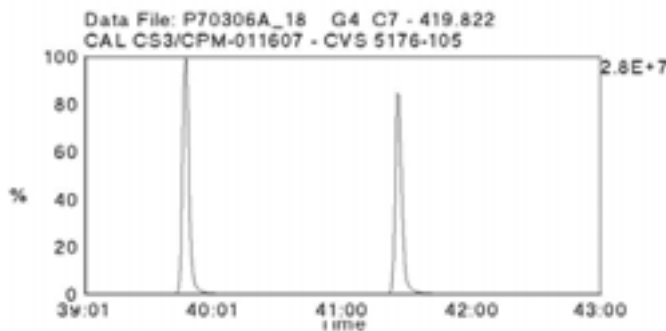
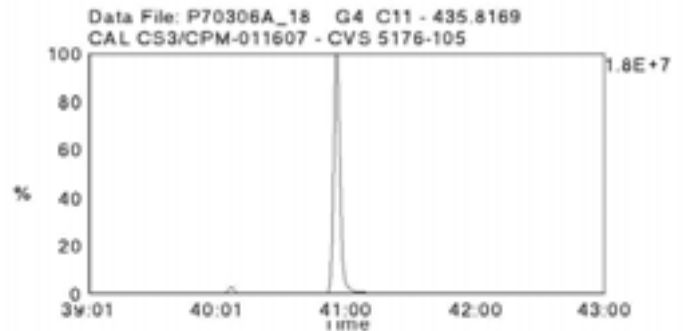
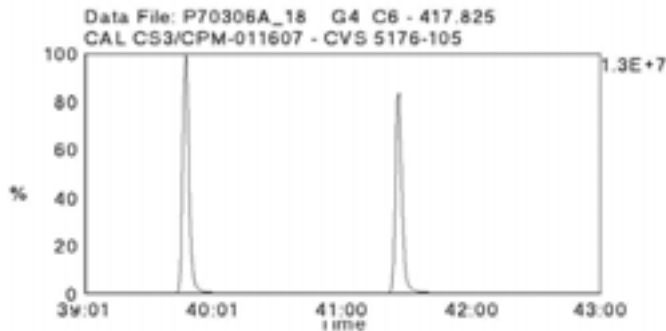
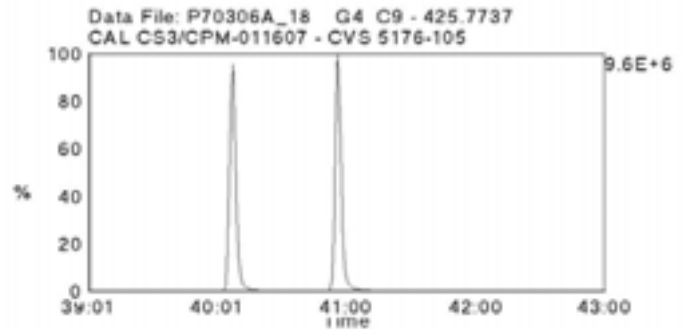
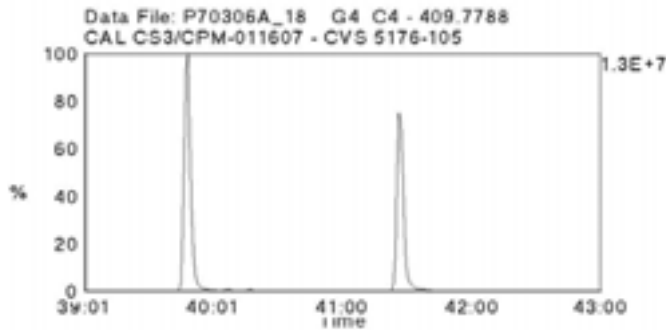
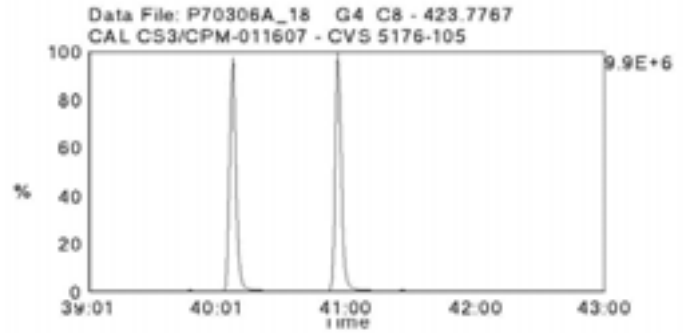
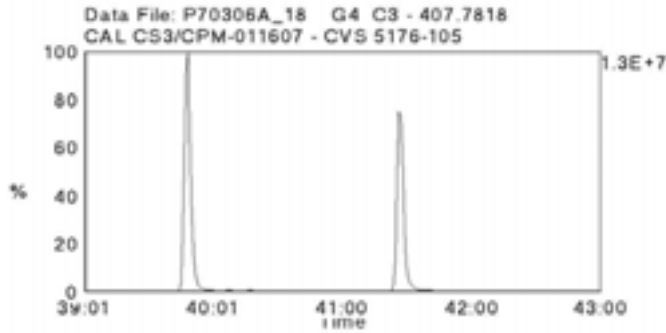
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70306A\_18

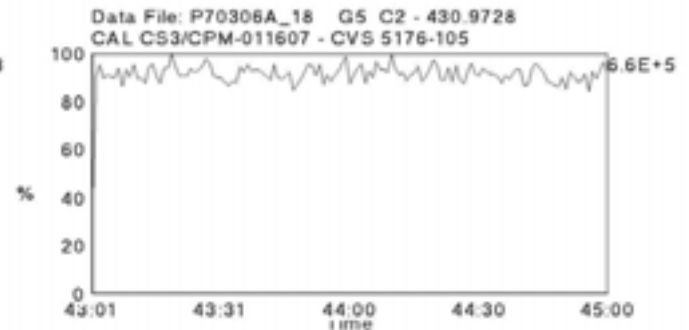
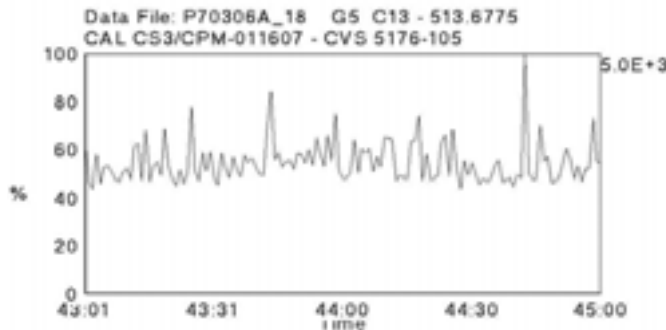
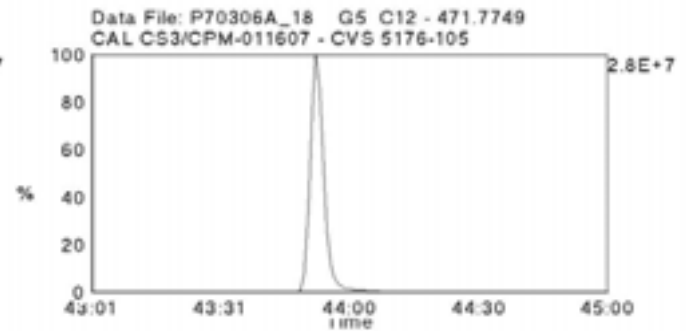
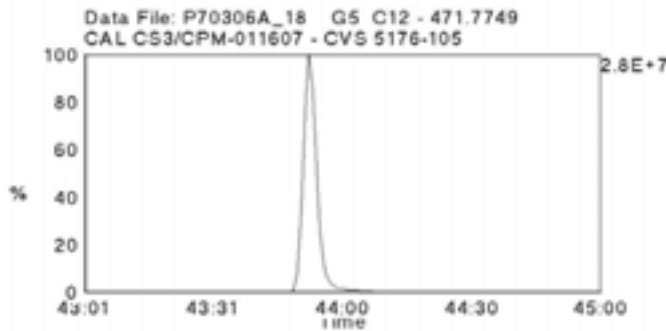
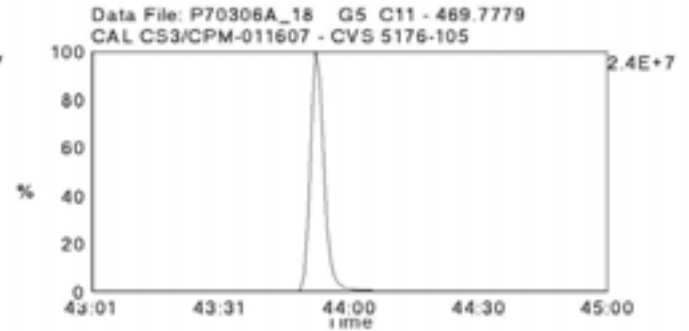
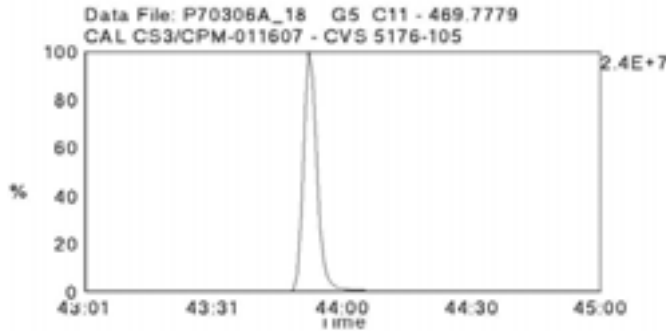
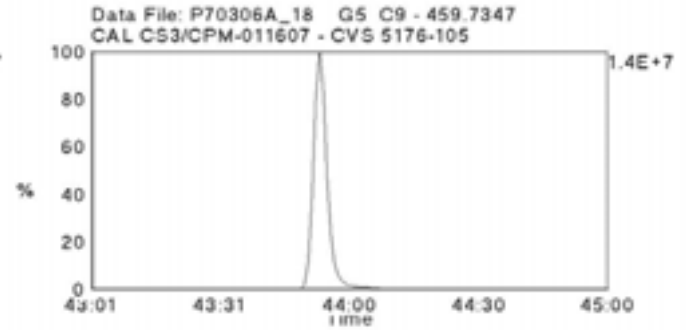
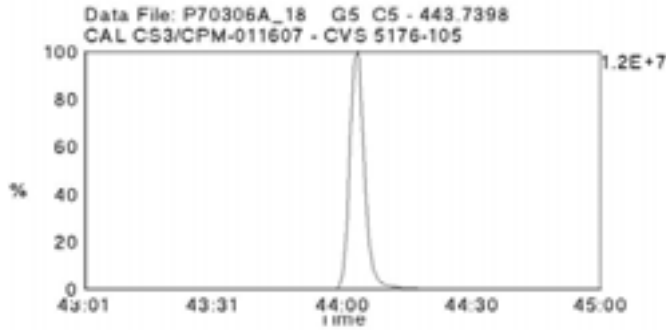
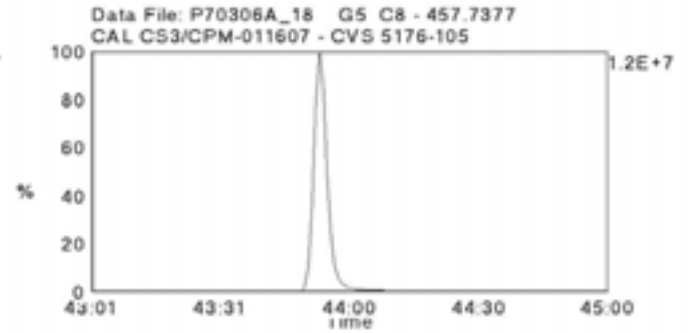
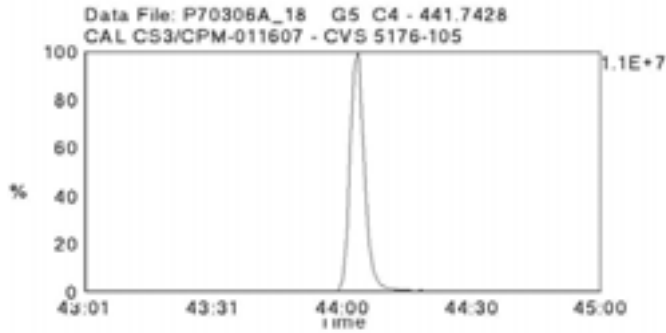
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70307A\_02

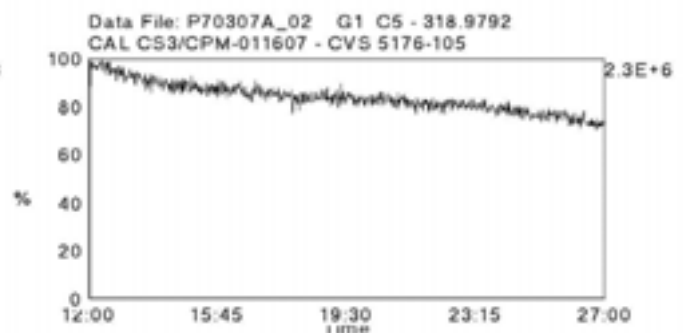
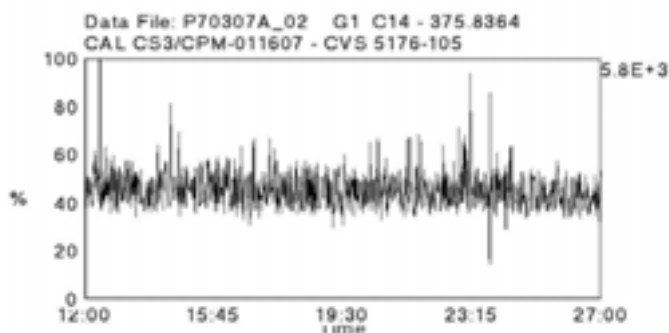
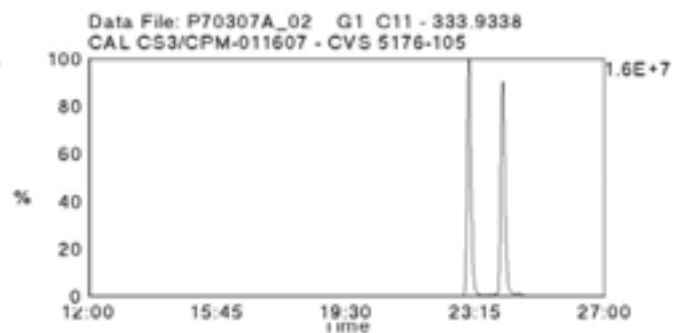
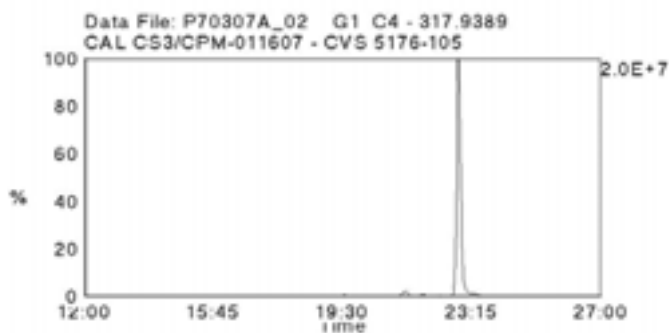
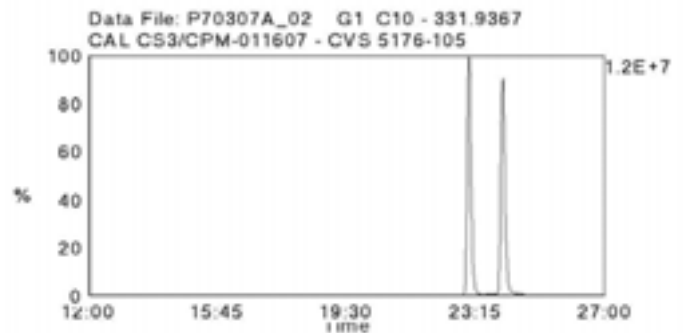
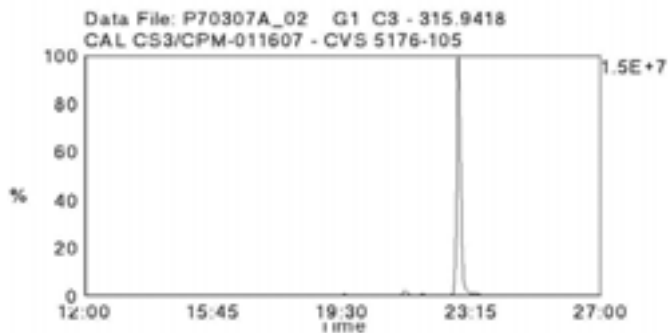
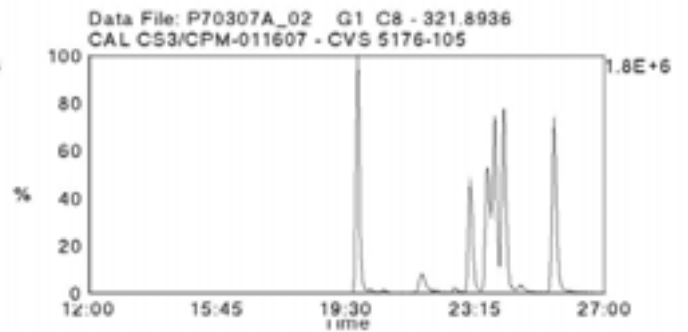
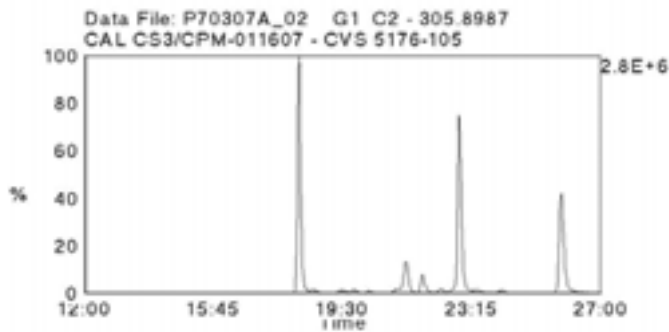
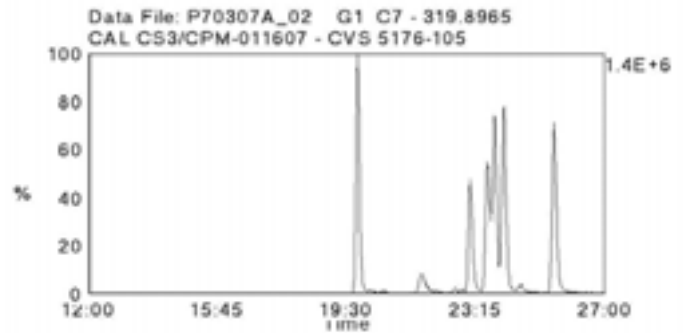
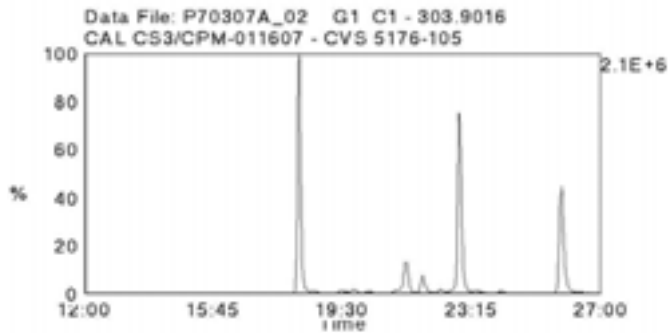
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70307A\_02

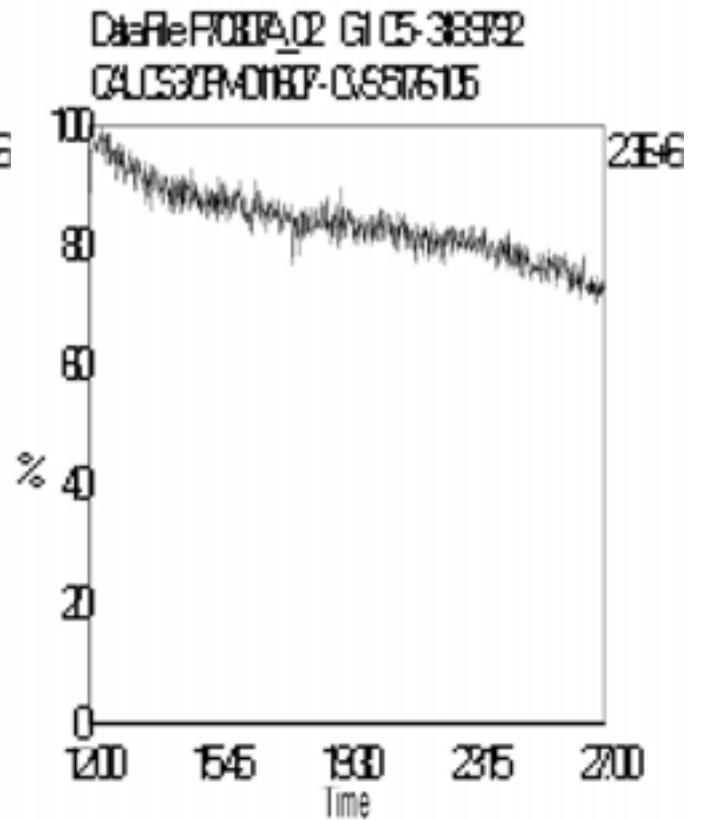
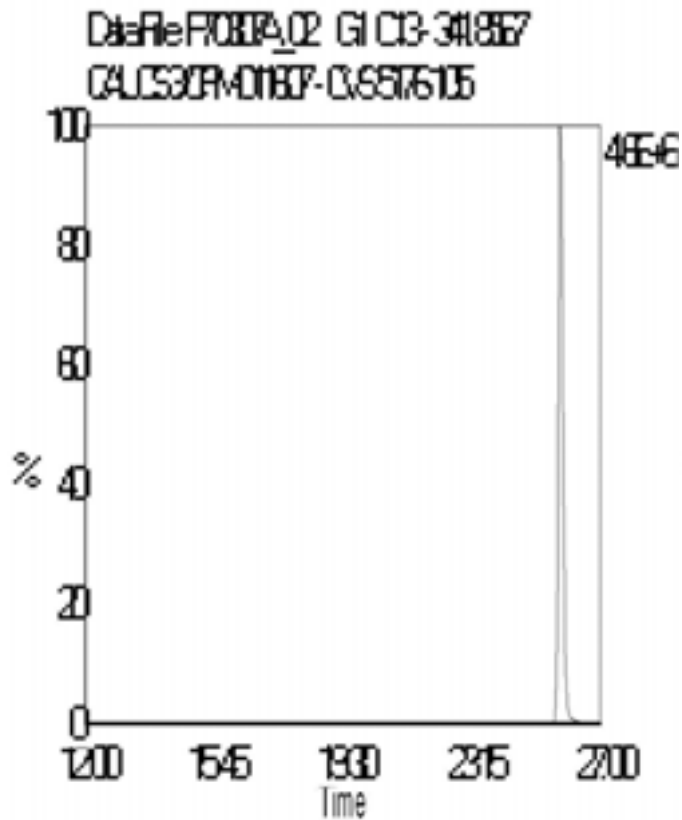
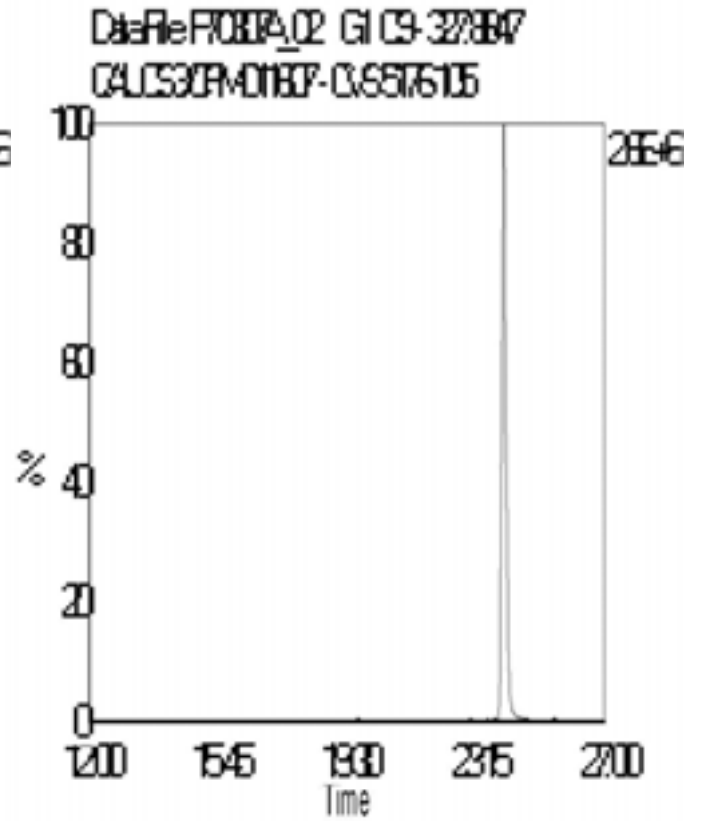
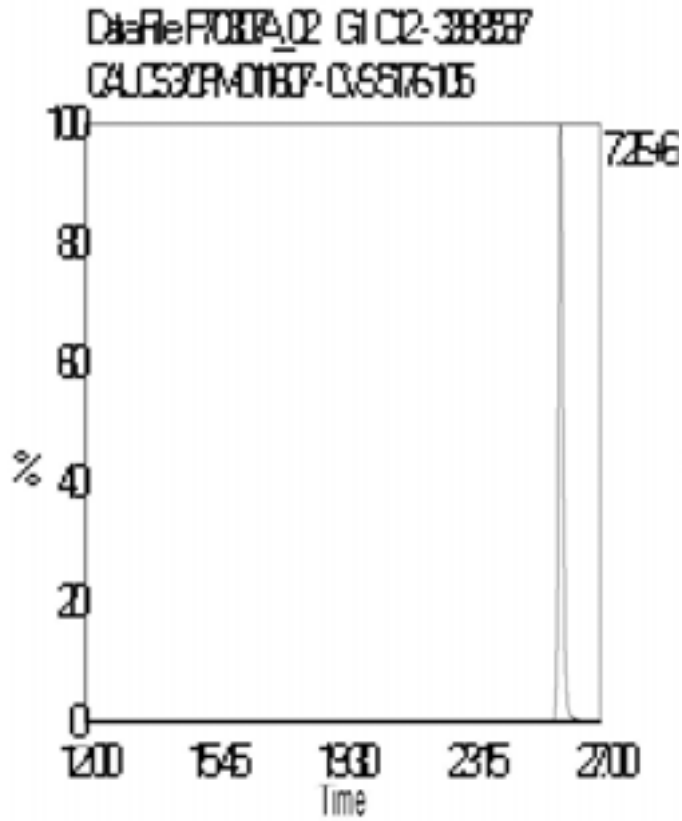
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)





Data File Name: P70307A\_02

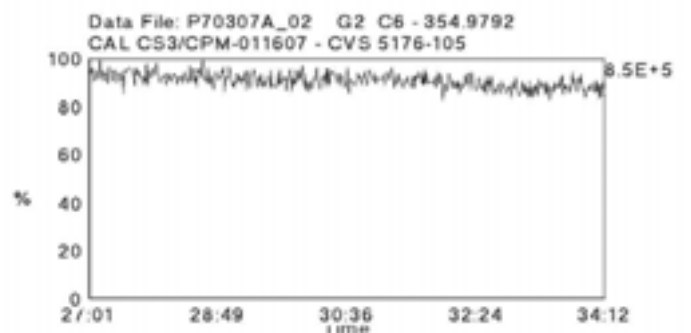
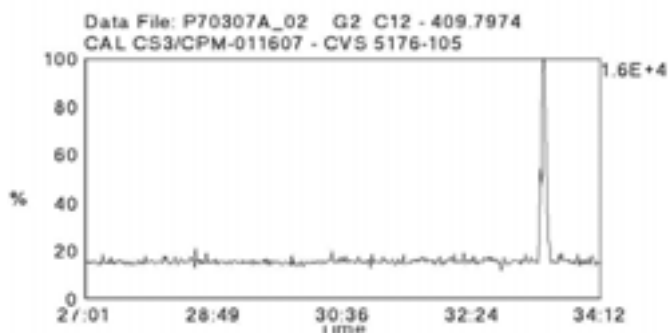
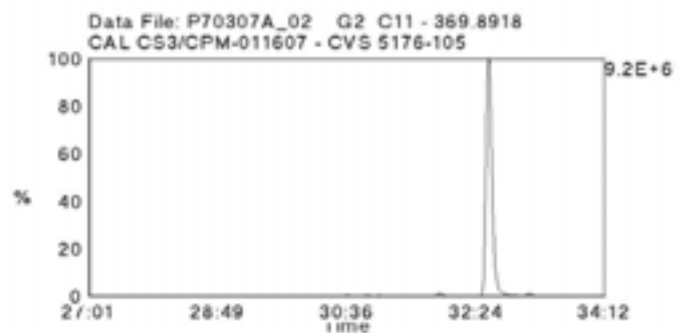
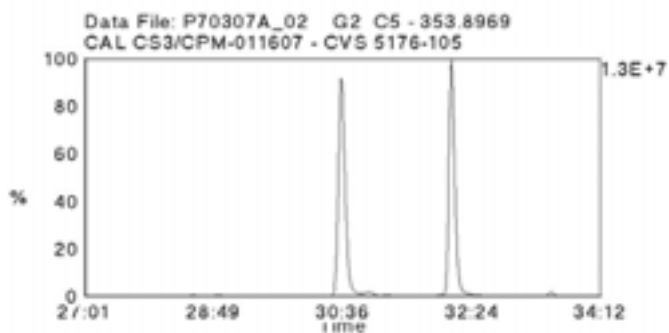
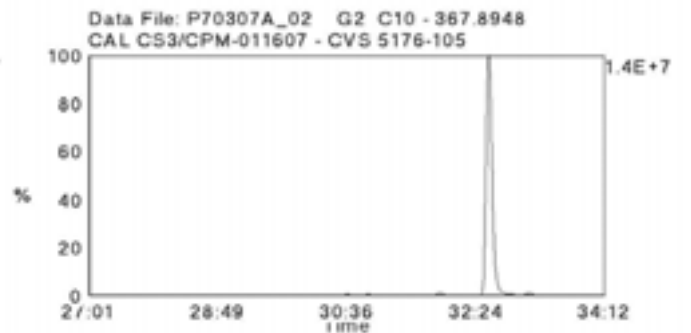
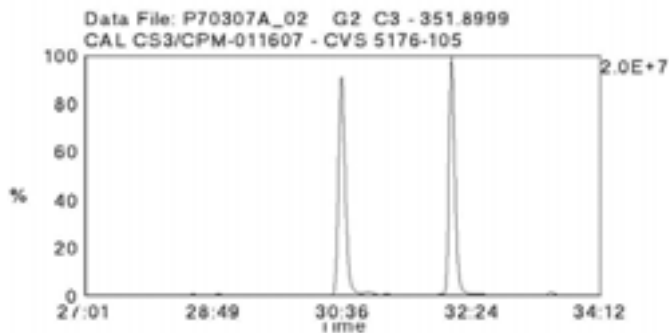
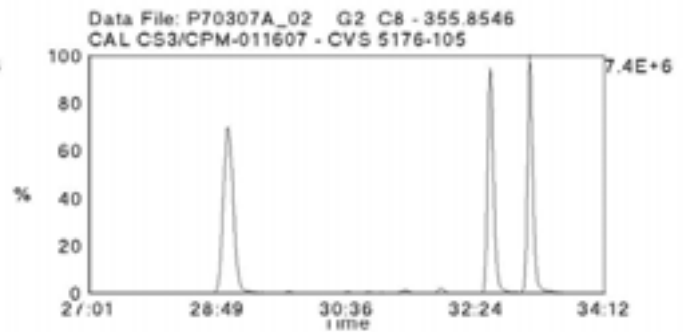
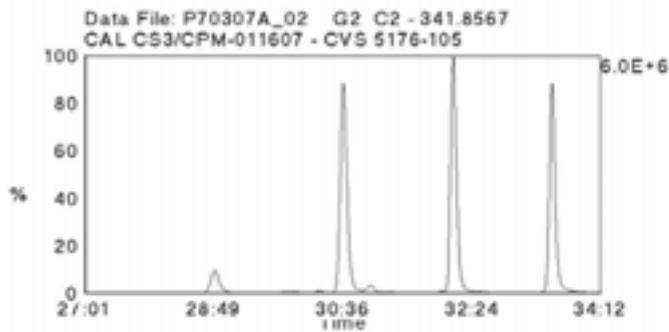
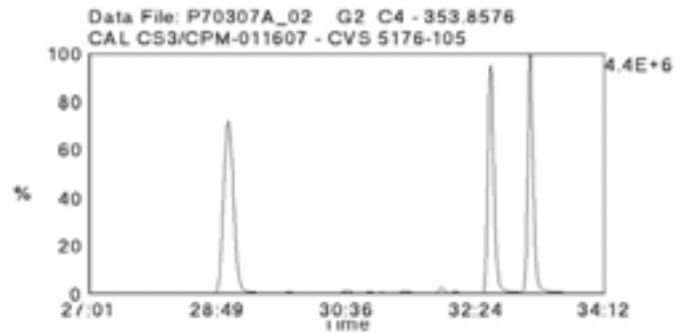
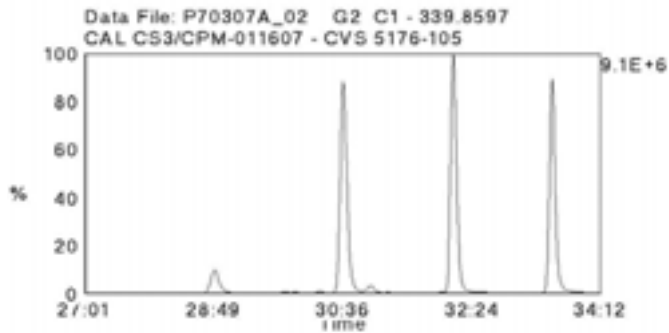
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70307A\_02

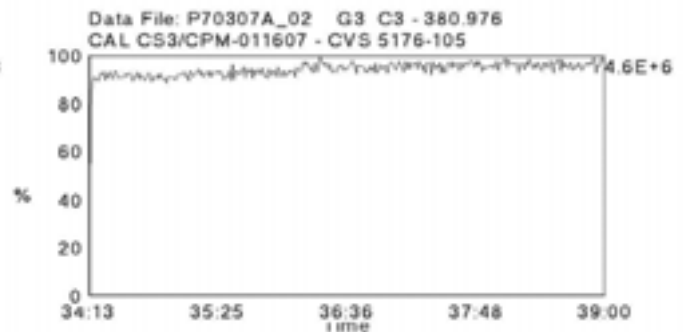
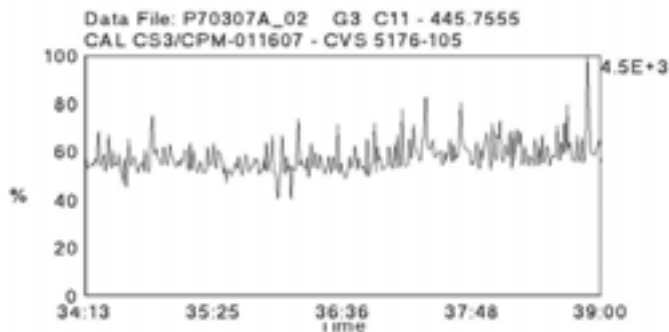
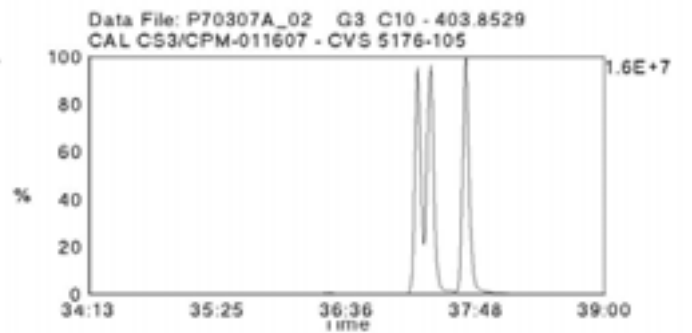
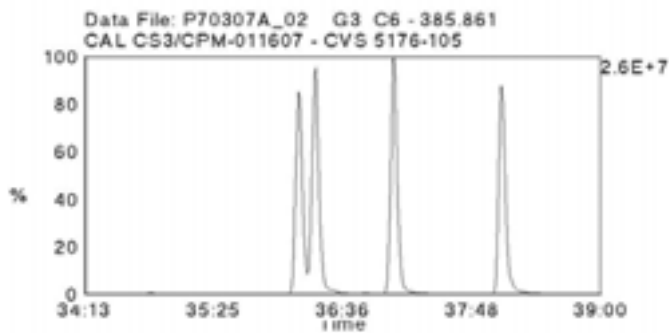
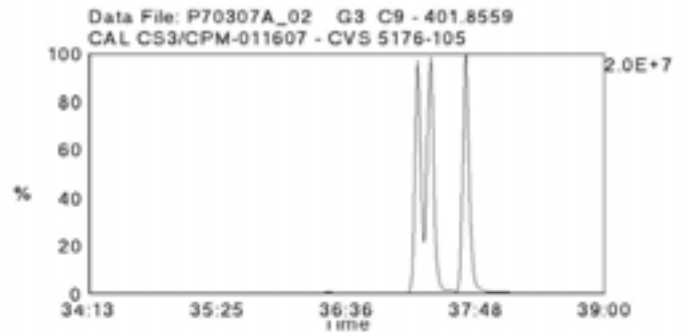
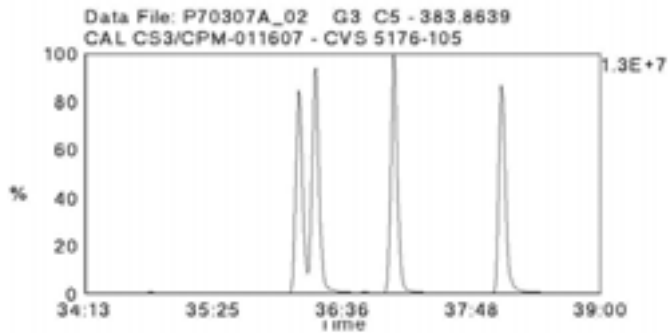
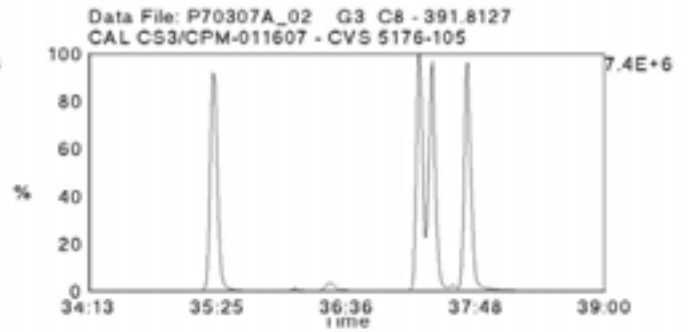
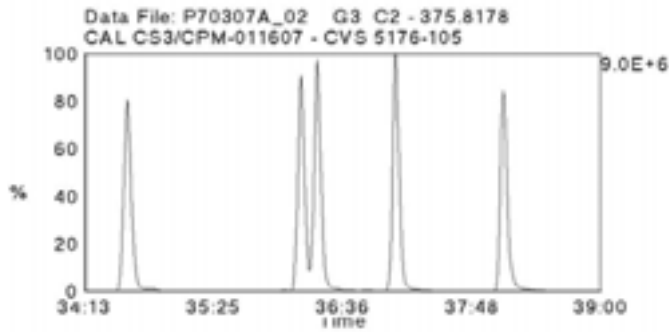
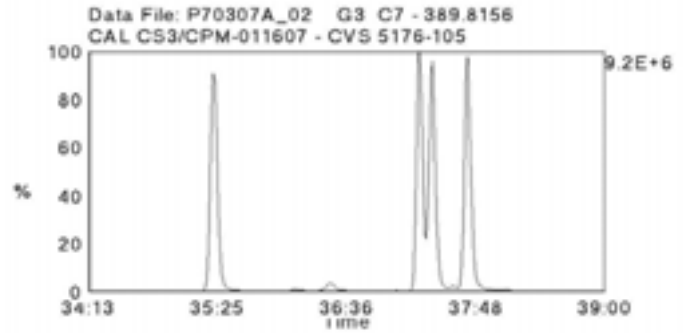
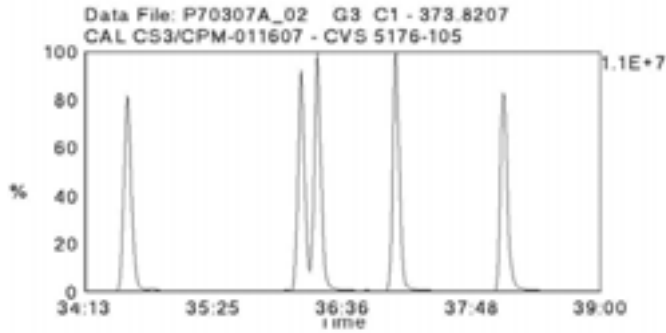
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



Data File Name: P70307A\_02

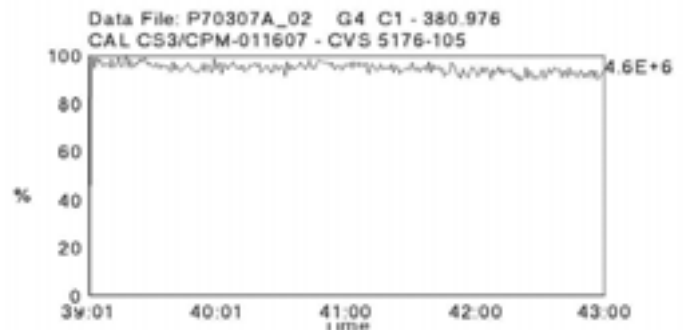
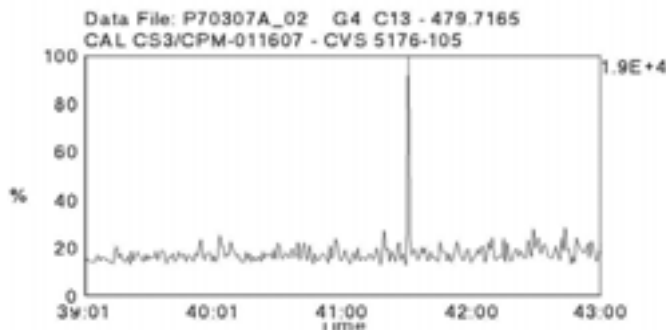
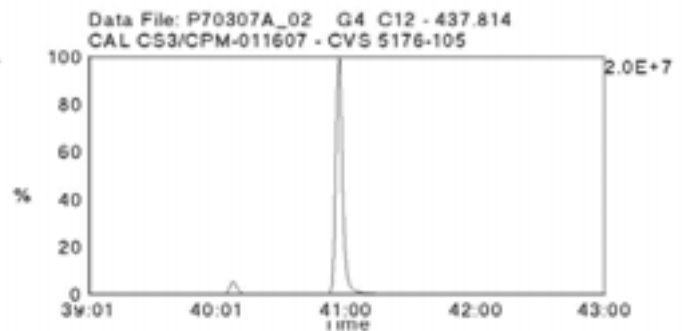
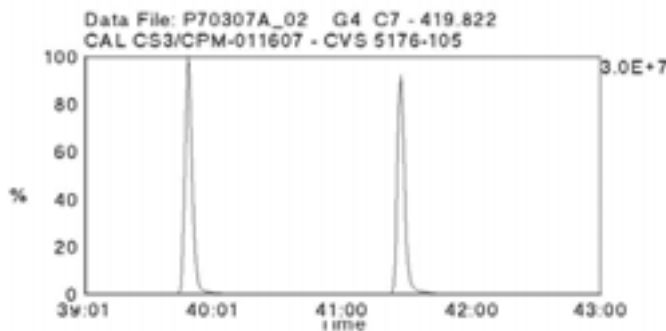
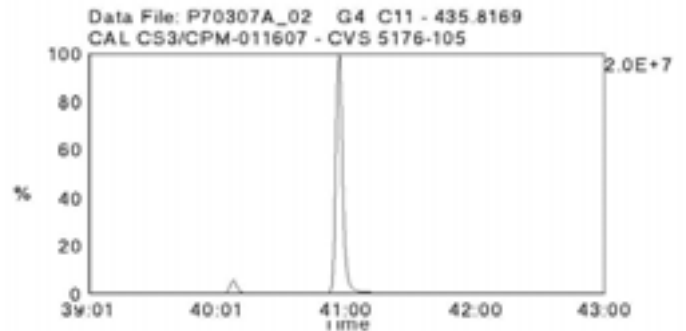
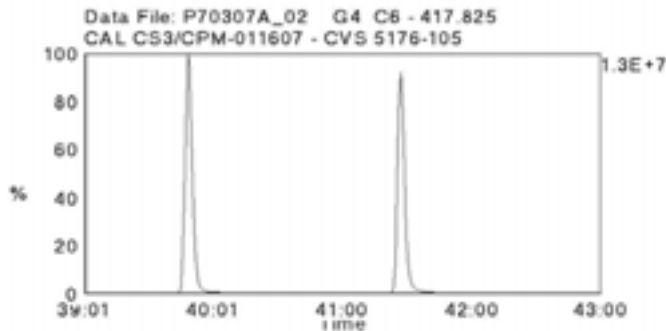
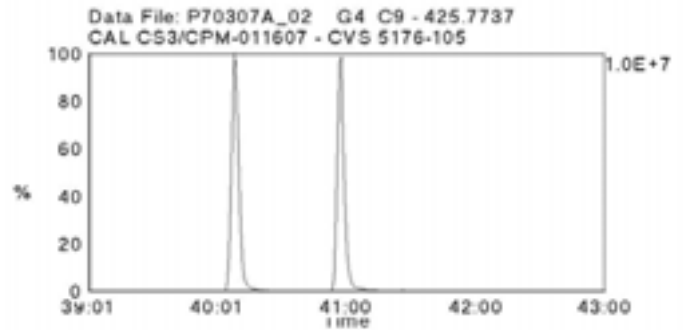
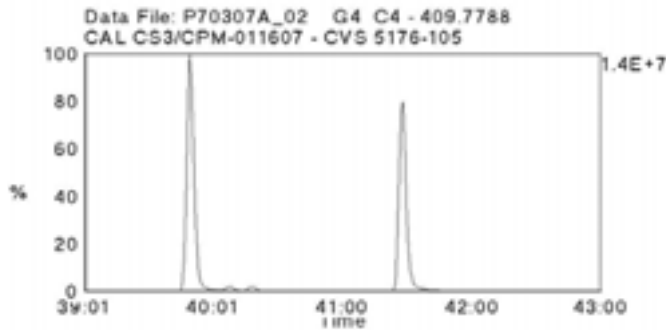
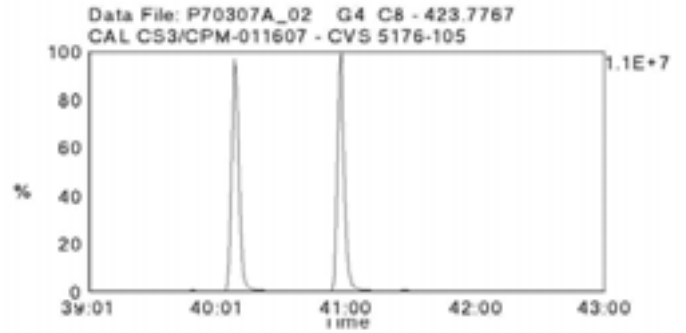
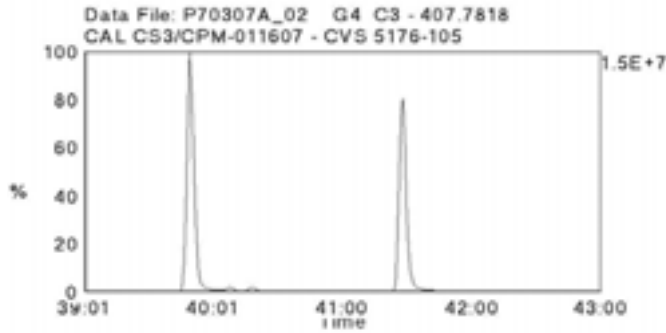
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

Client Sample ID:

Instrument: 10MSHR09 (P)



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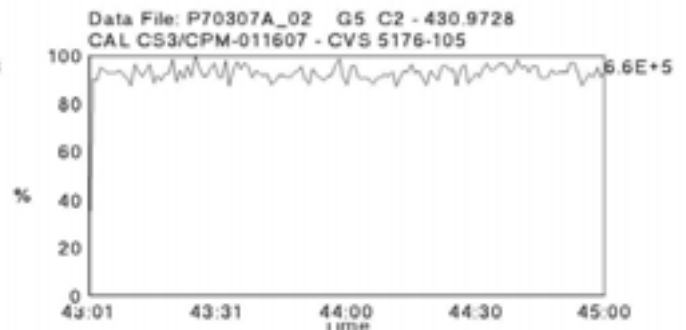
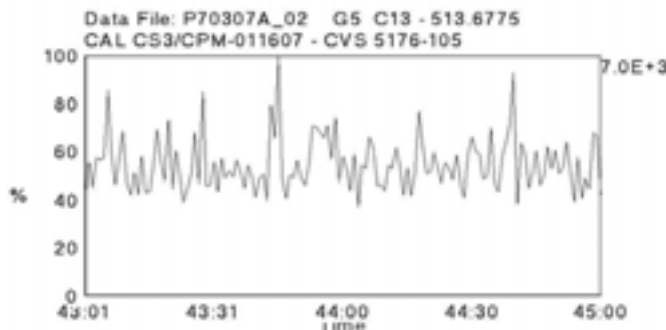
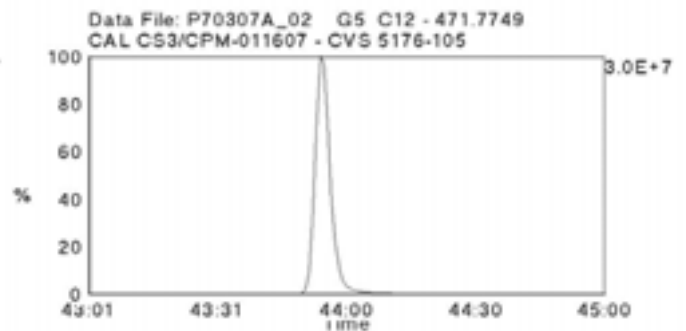
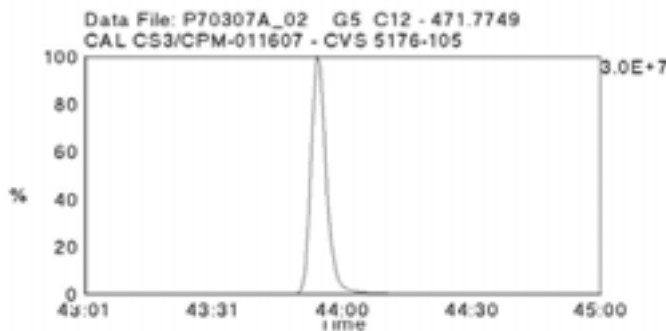
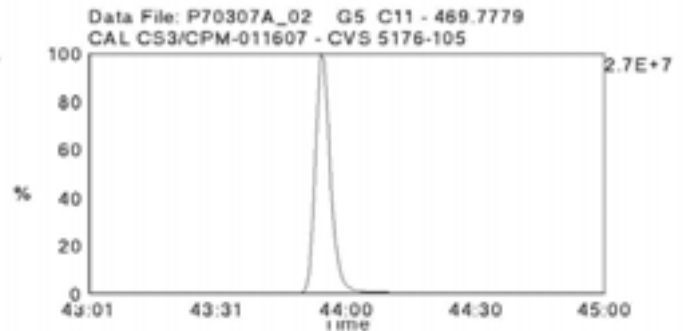
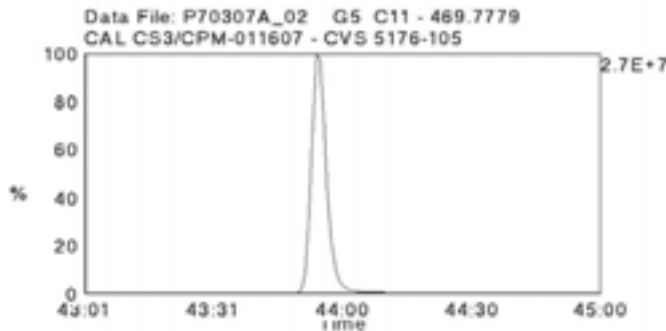
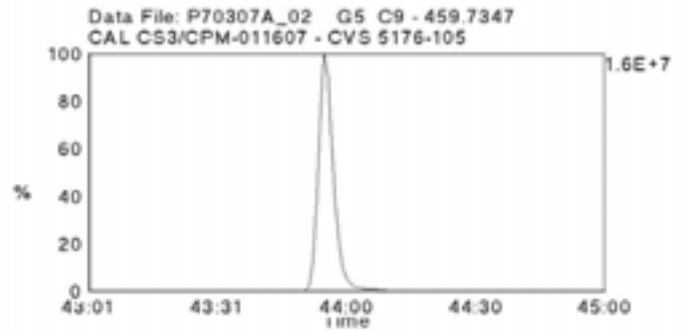
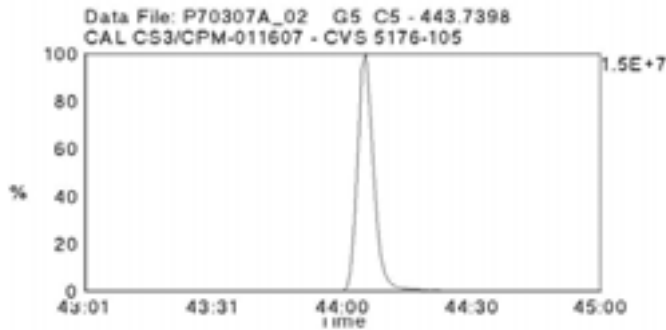
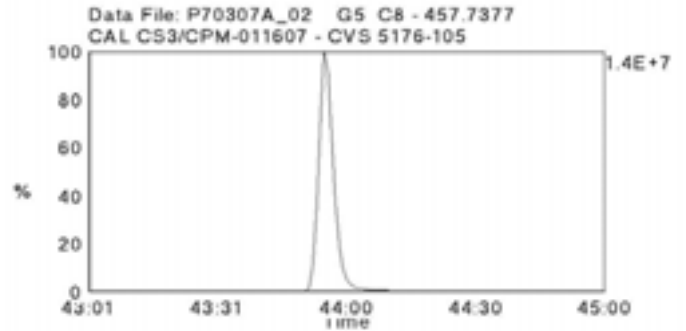
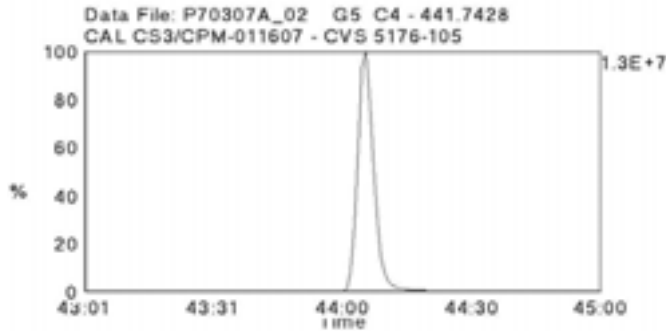
Date Acquired: 3/7/2007

Sample Description: CAL CS3/CPM-011607 - CVS 5176-105

Lab Sample ID: CS3/CPM-011607

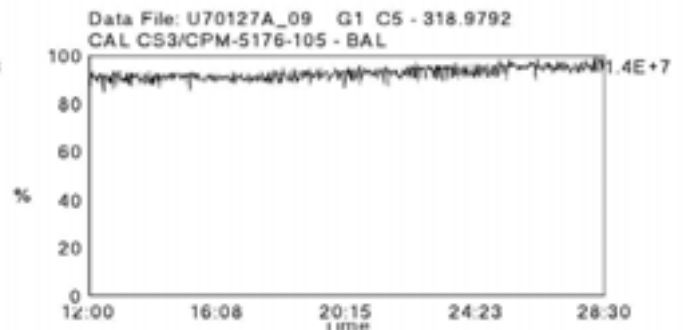
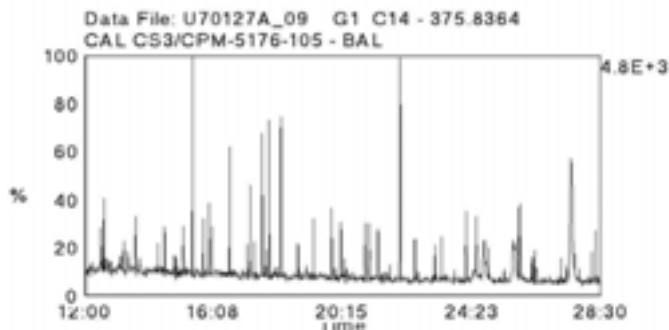
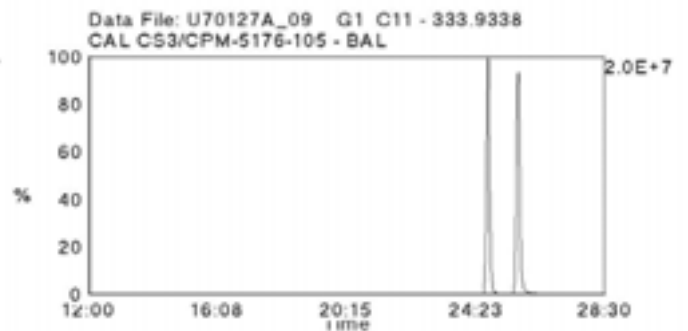
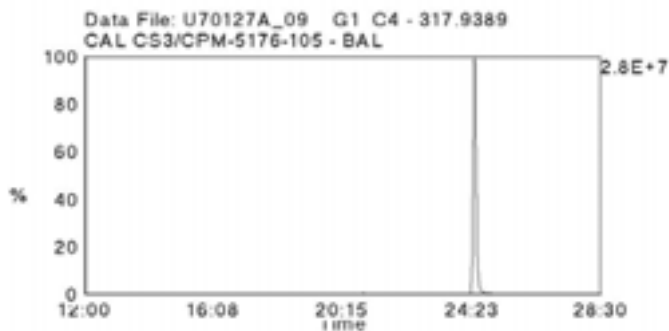
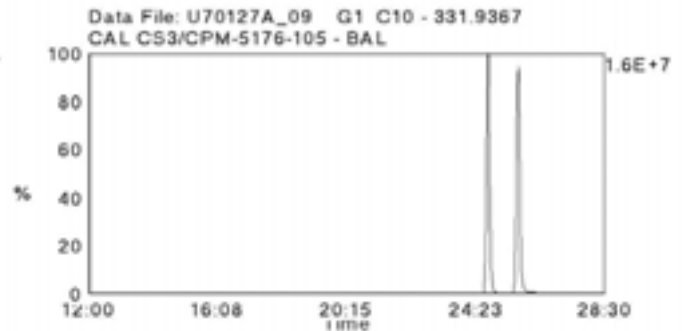
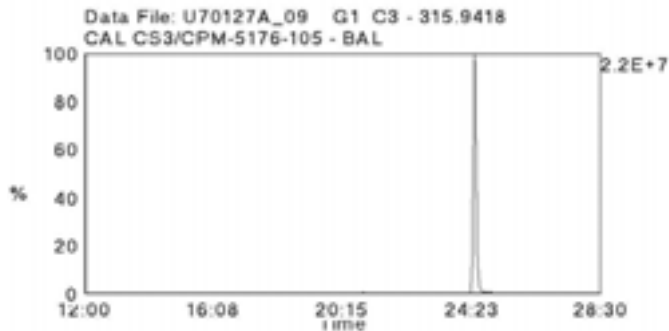
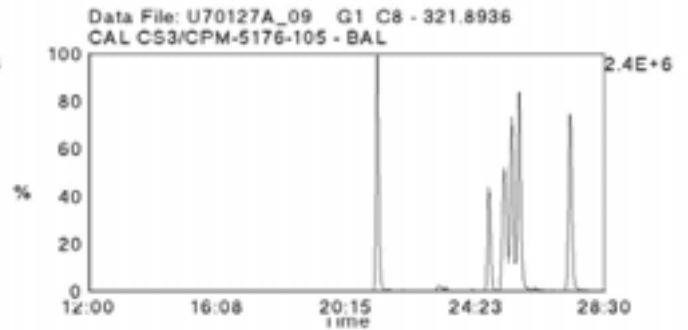
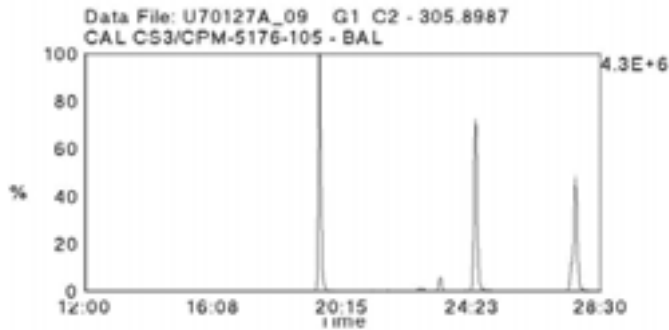
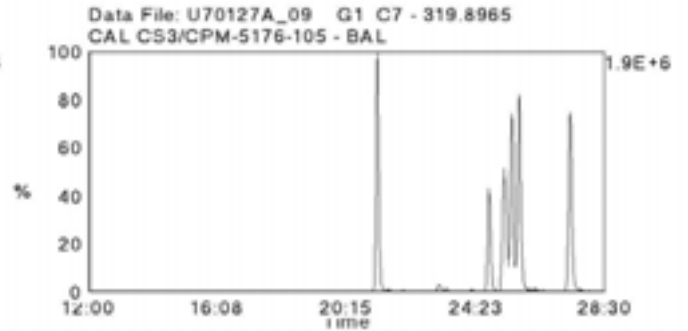
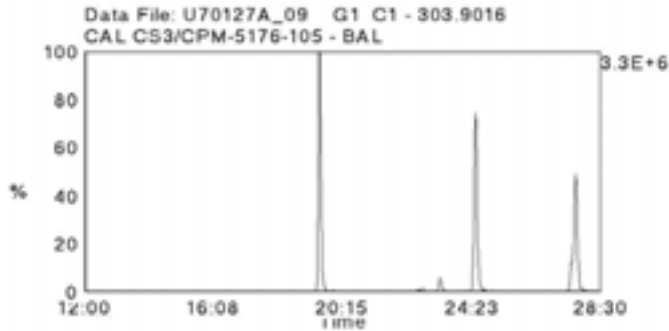
Client Sample ID:

Instrument: 10MSHR09 (P)



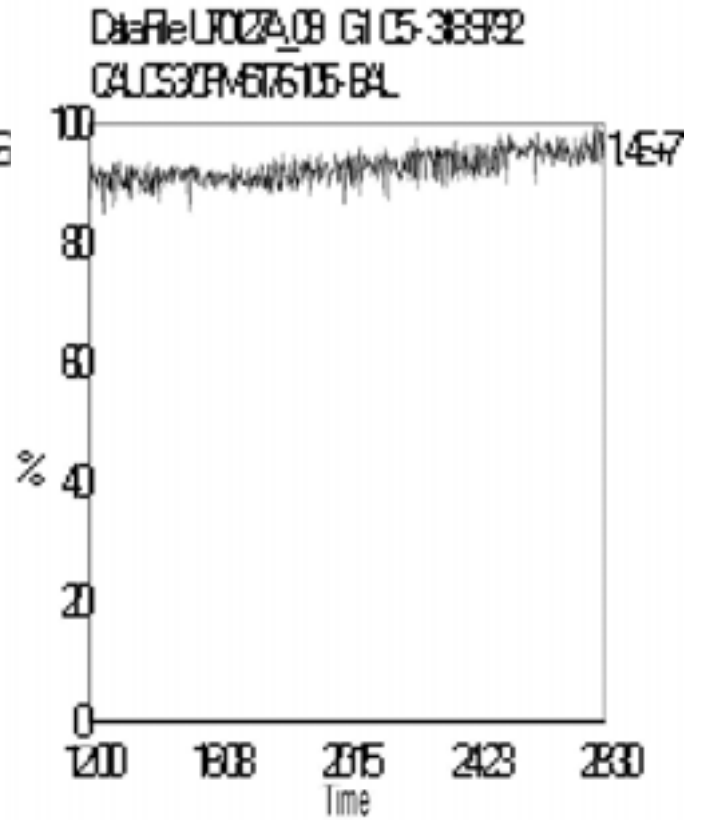
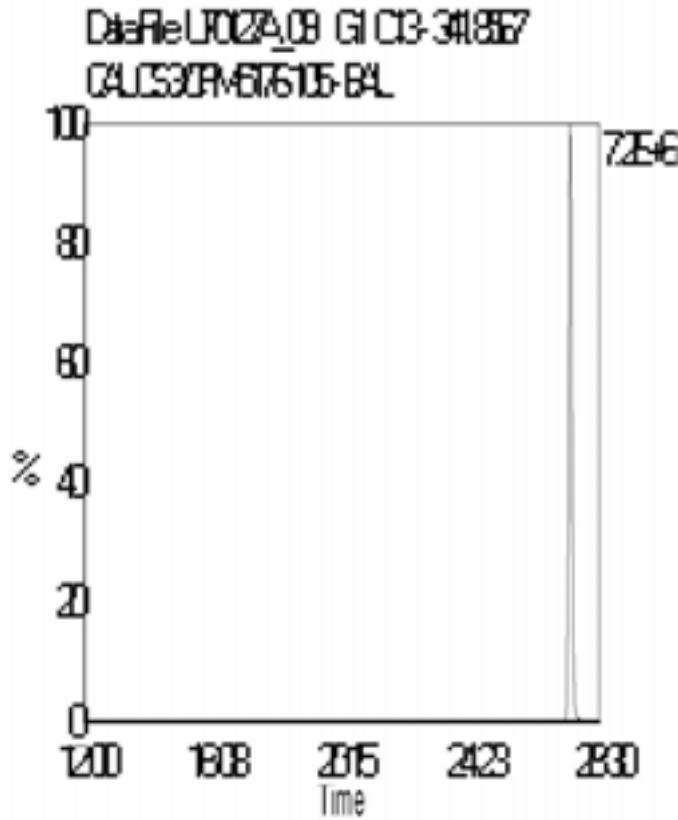
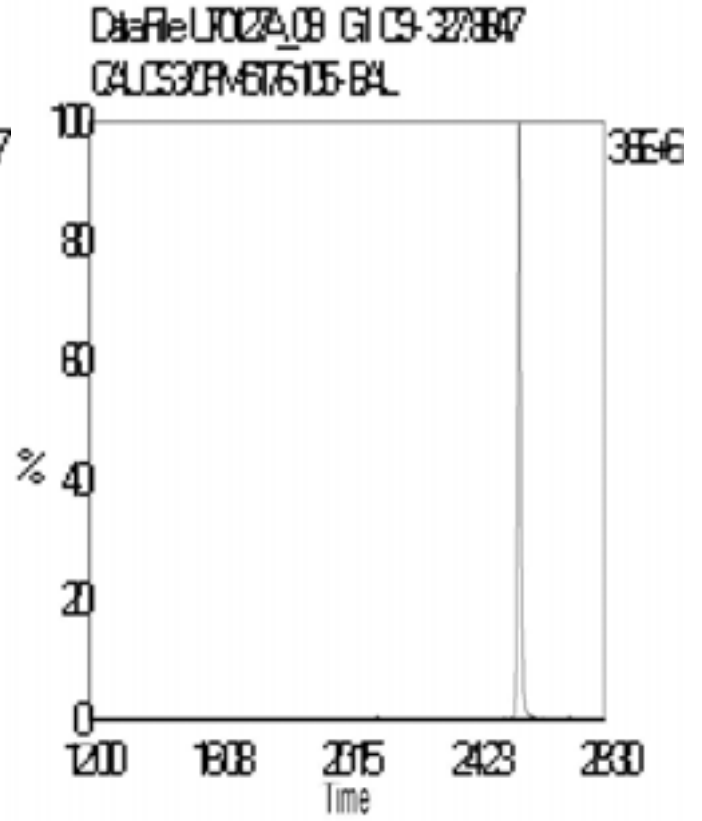
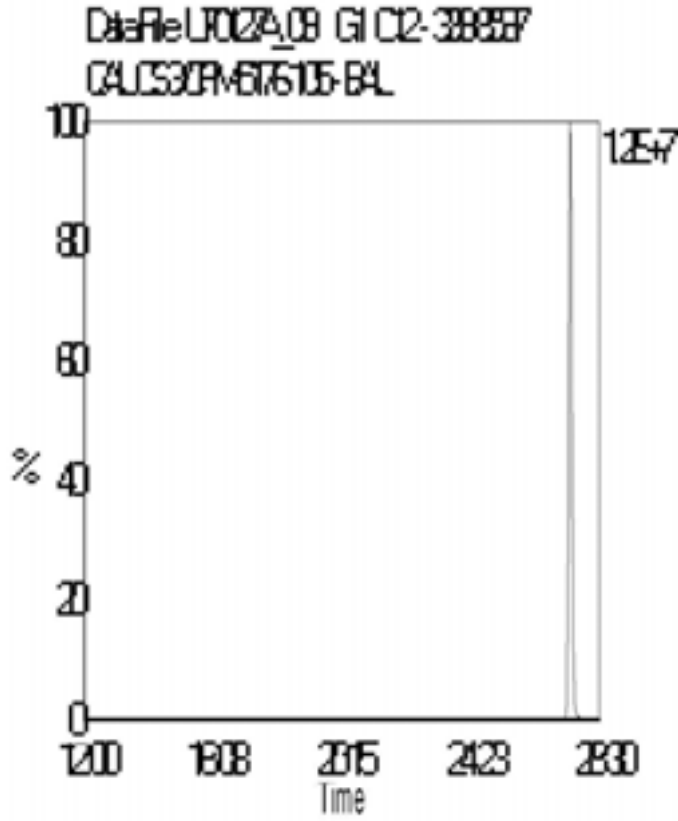
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Date Acquired: 1/27/2007  
Sample Description: CAL CS3/CPM-5176-105 - BAL

Lab Sample ID: CS3/CPM-5176-105  
Client Sample ID:  
Instrument: 10MSHR06 (U)



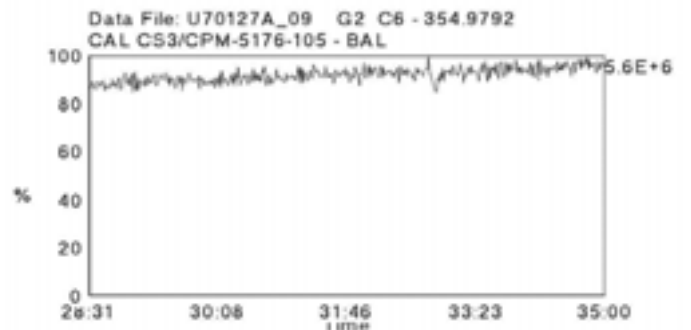
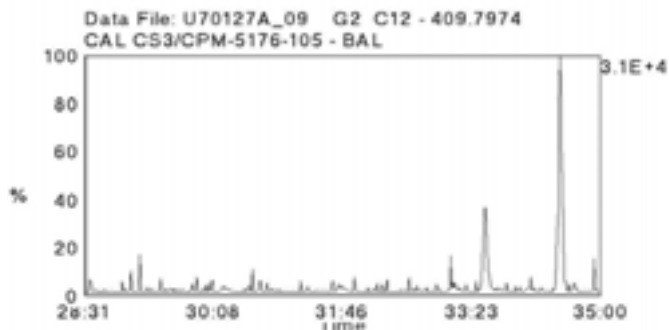
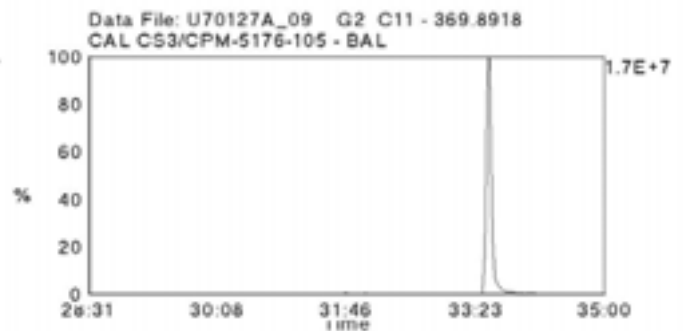
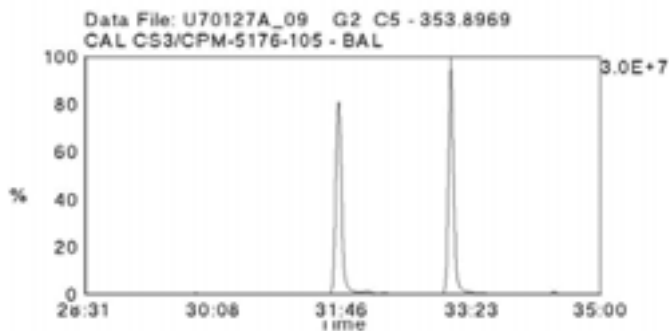
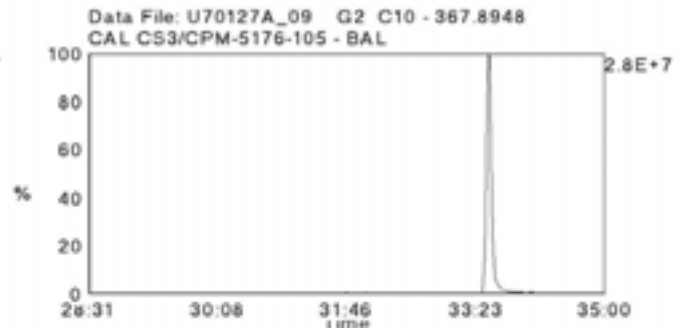
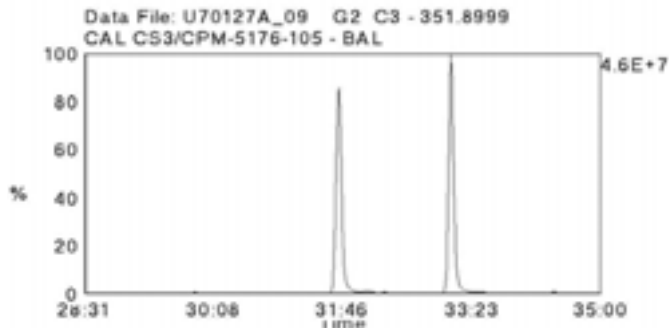
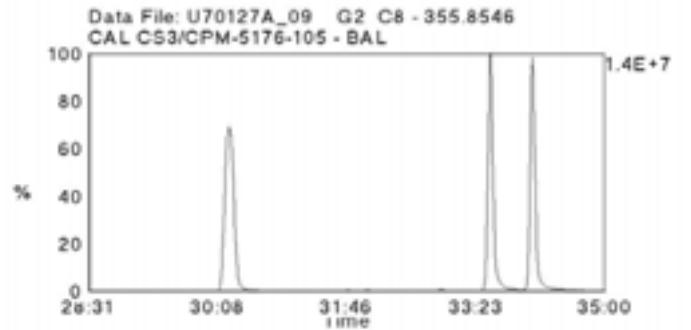
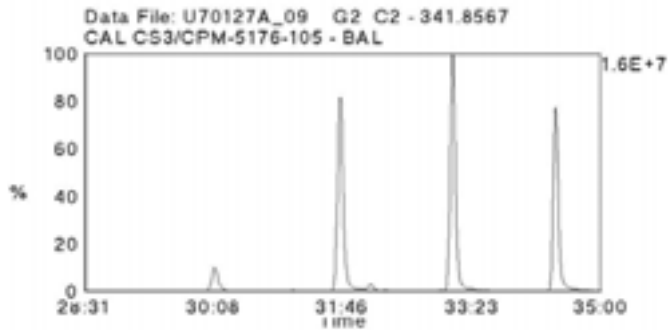
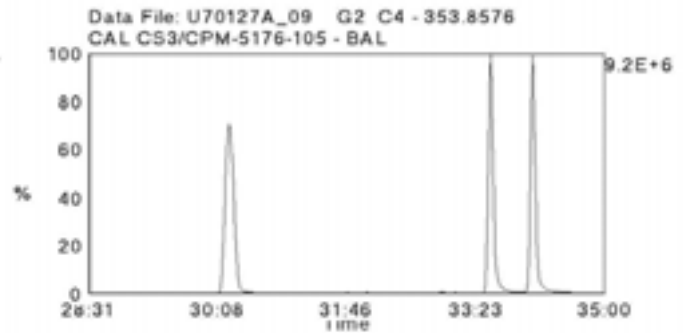
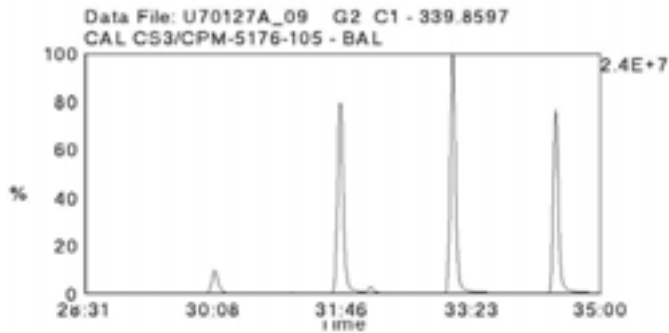
Data File Name: U70127A\_09  
Date Acquired: 1/27/2007  
Sample Description: CAL CS3/CPM-5176-105 - BAL

Lab Sample ID: CS3/CPM-5176-105  
Client Sample ID:  
Instrument: 10MSHR06 (U)



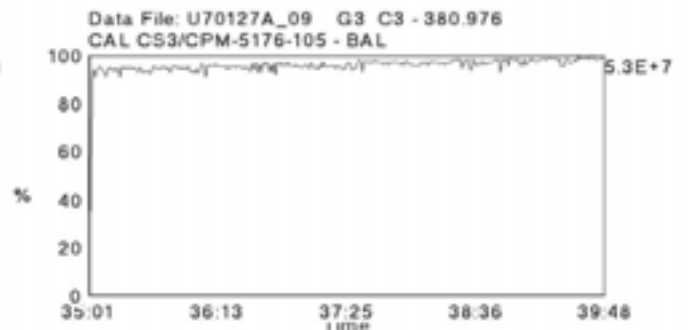
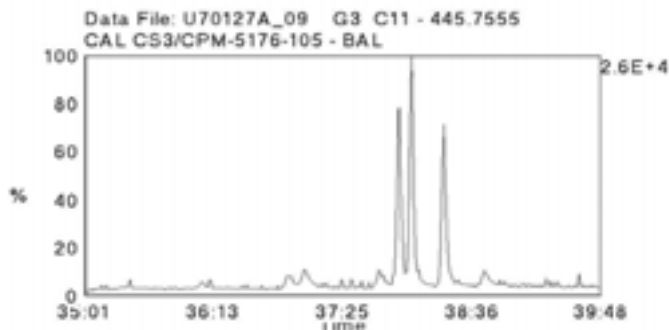
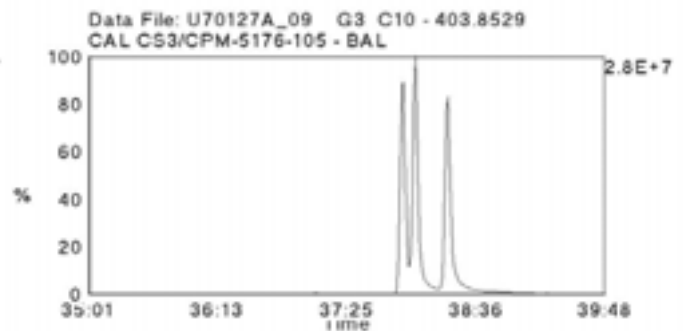
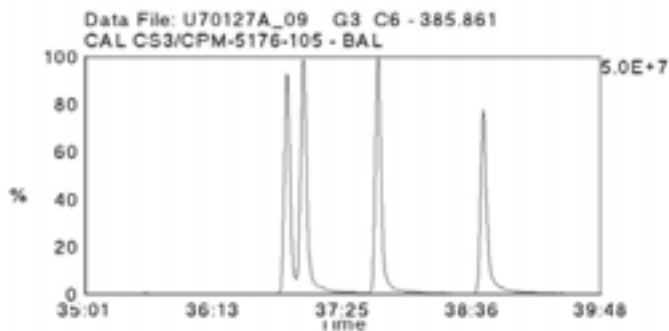
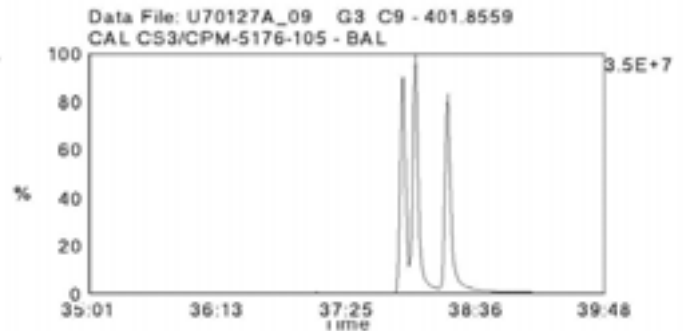
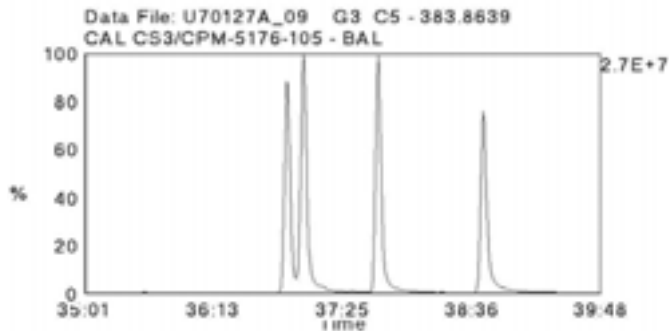
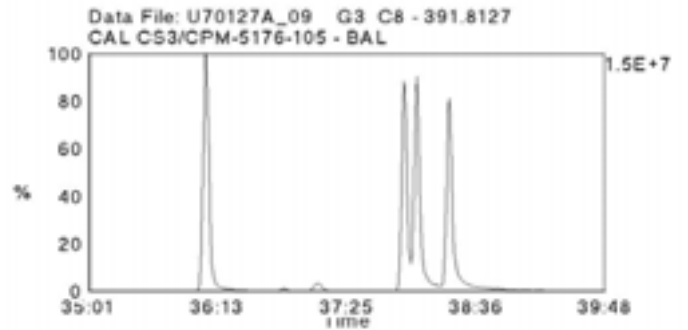
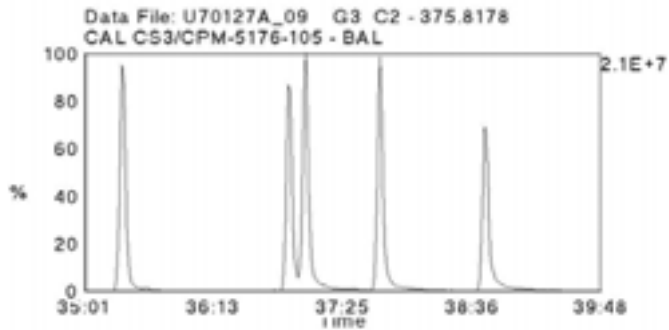
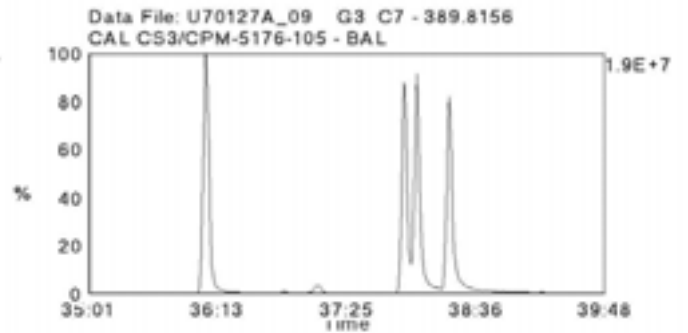
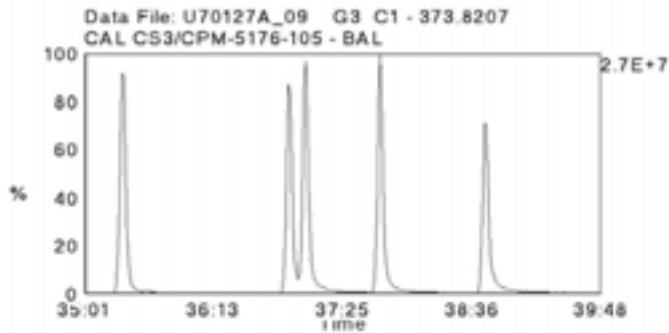
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Date Acquired: 1/27/2007  
Sample Description: CAL CS3/CPM-5176-105 - BAL

Lab Sample ID: CS3/CPM-5176-105  
Client Sample ID:  
Instrument: 10MSHR06 (U)



Data File Name: U70127A\_09  
Date Acquired: 1/27/2007  
Sample Description: CAL CS3/CPM-5176-105 - BAL

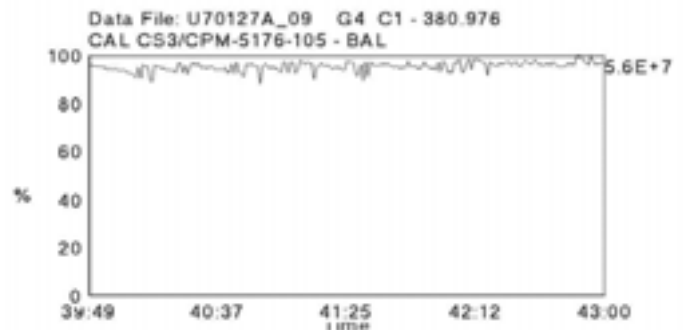
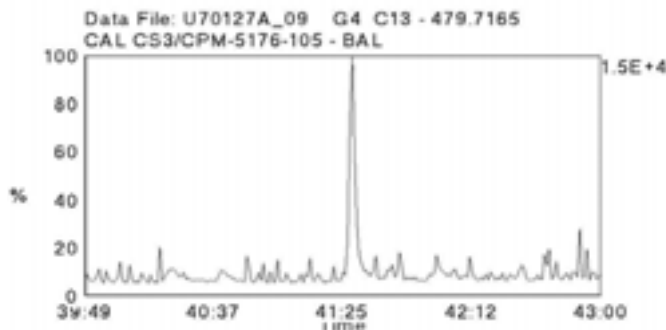
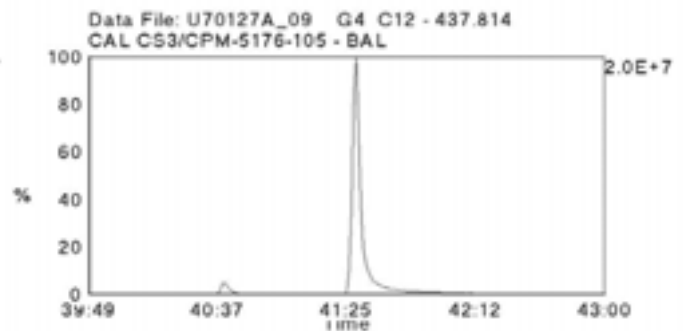
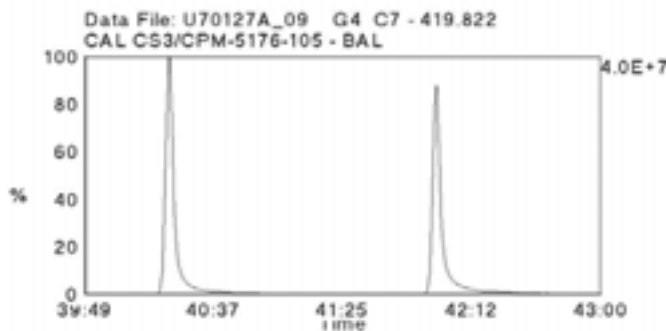
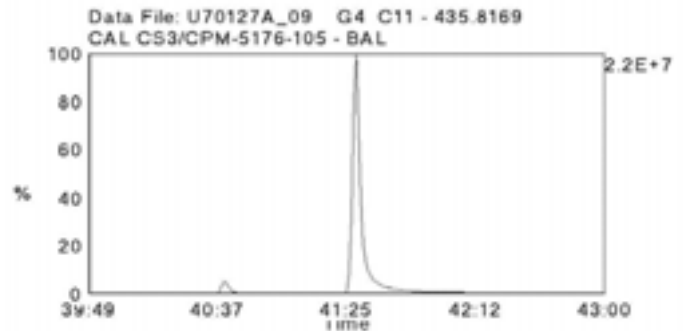
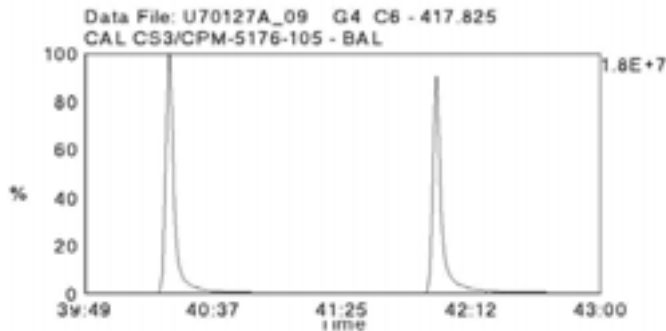
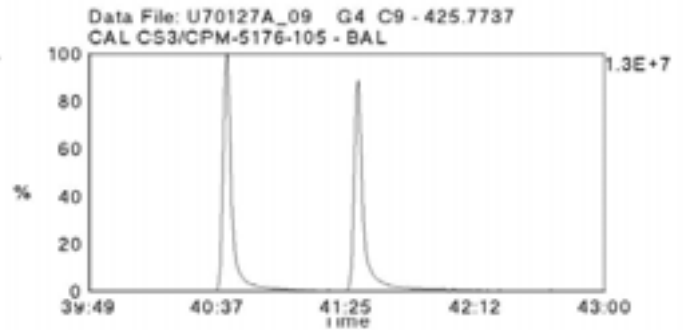
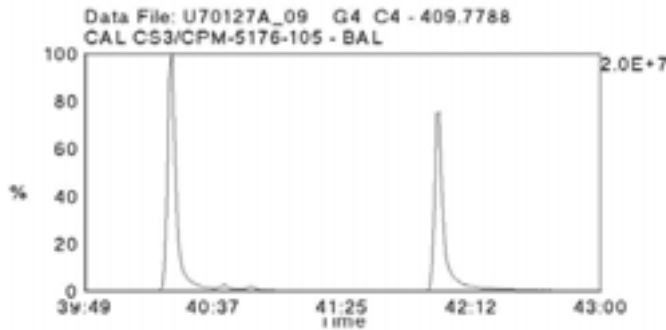
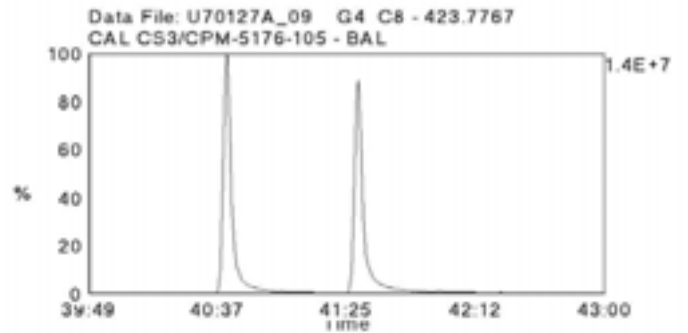
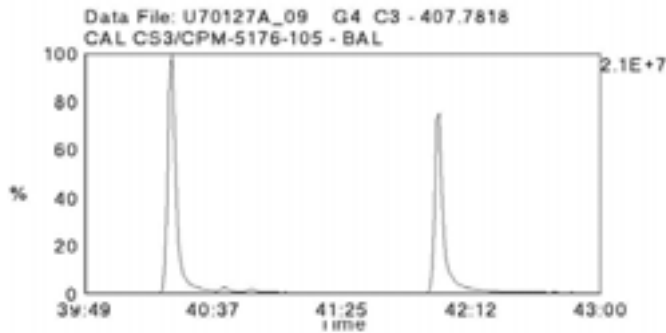
Lab Sample ID: CS3/CPM-5176-105  
Client Sample ID:  
Instrument: 10MSHR06 (U)





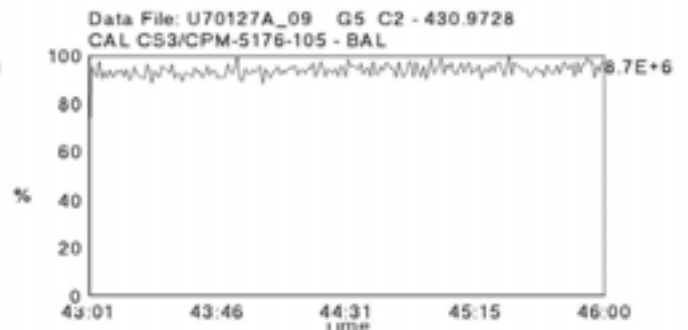
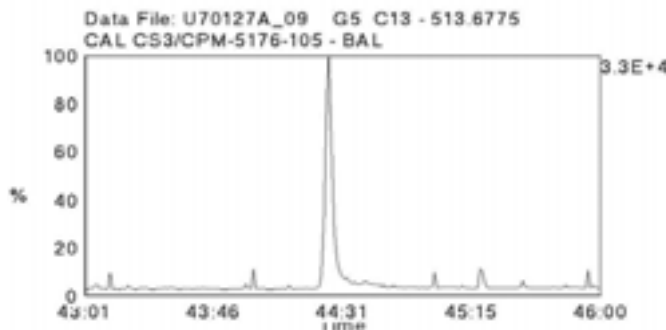
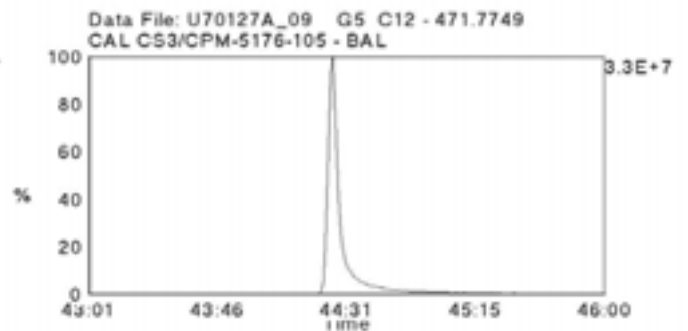
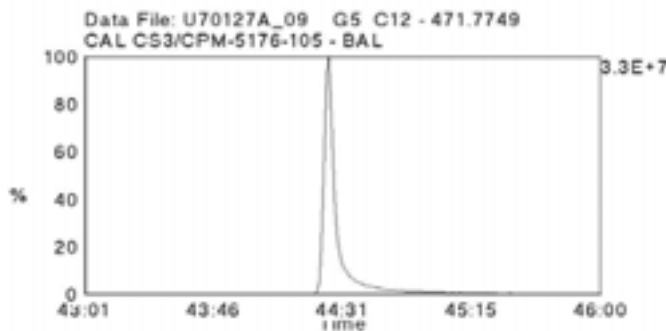
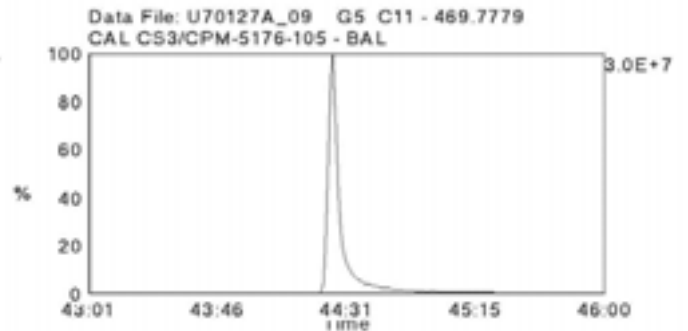
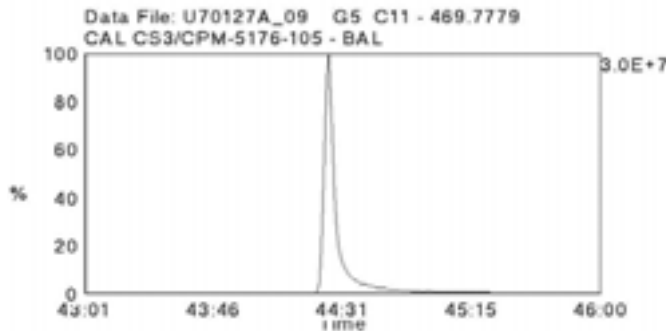
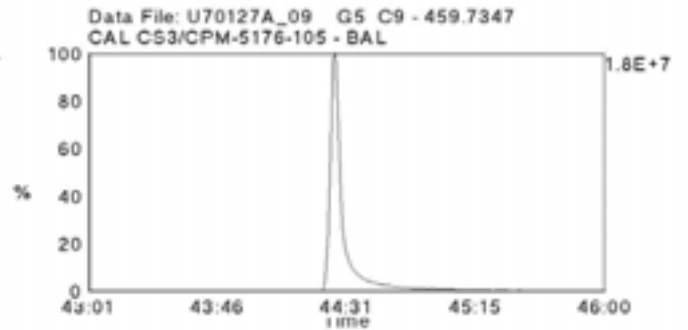
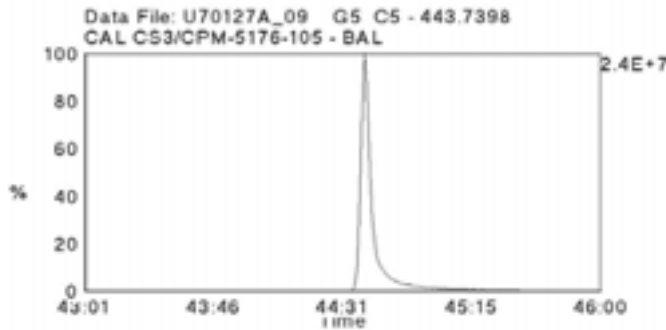
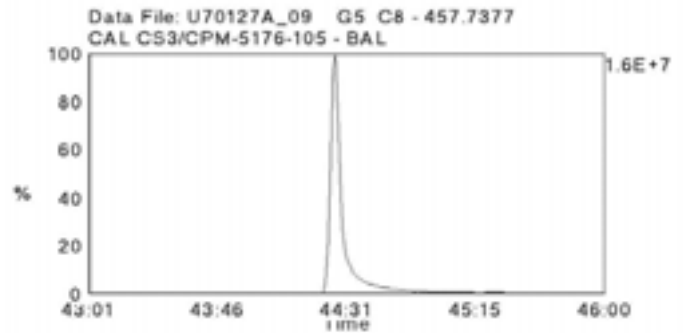
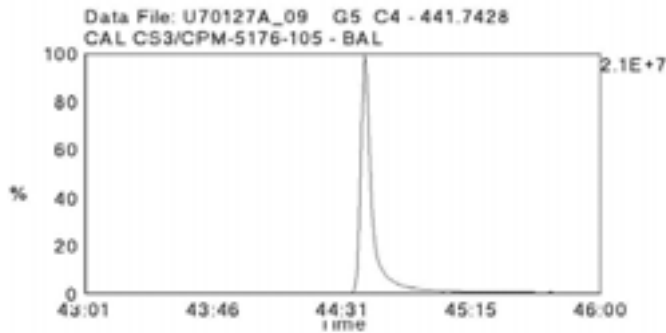
Data File Name: U70127A\_09  
Date Acquired: 1/27/2007  
Sample Description: CAL CS3/CPM-5176-105 - BAL

Lab Sample ID: CS3/CPM-5176-105  
Client Sample ID:  
Instrument: 10MSHR06 (U)



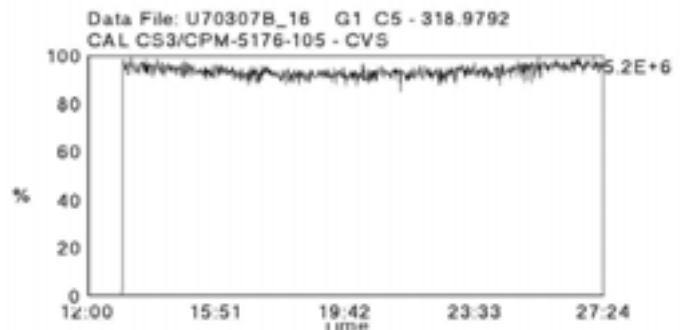
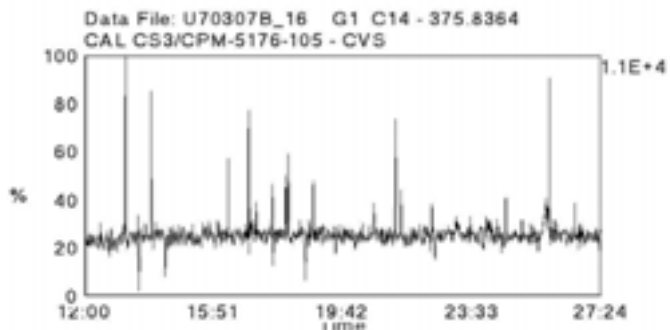
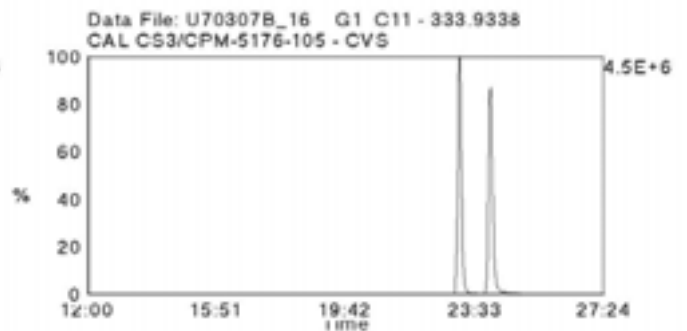
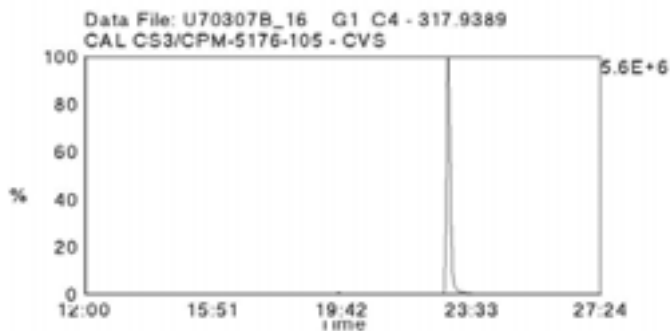
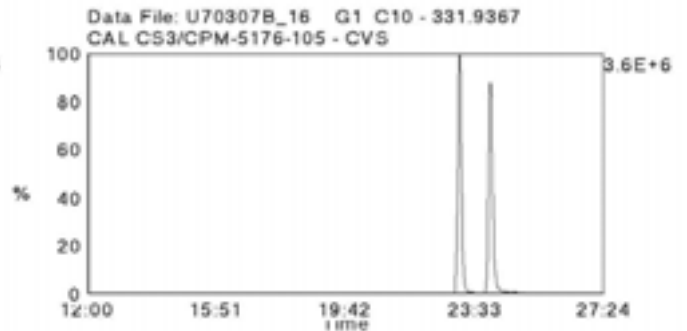
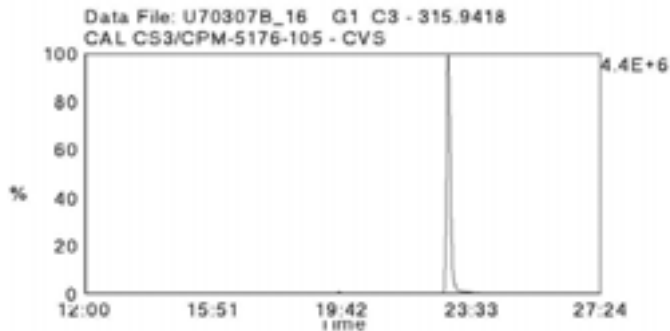
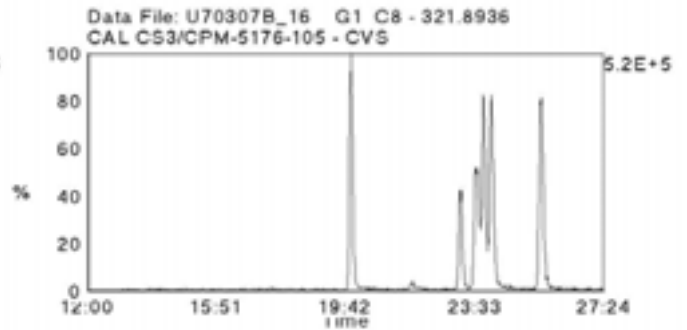
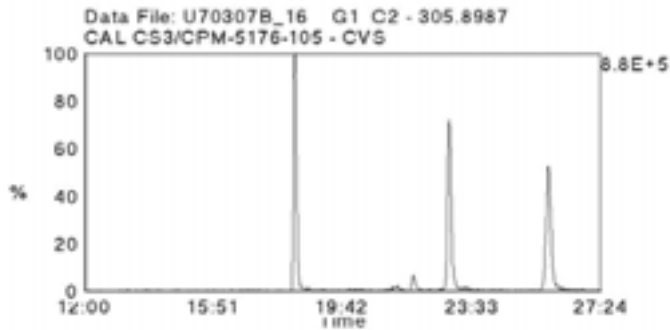
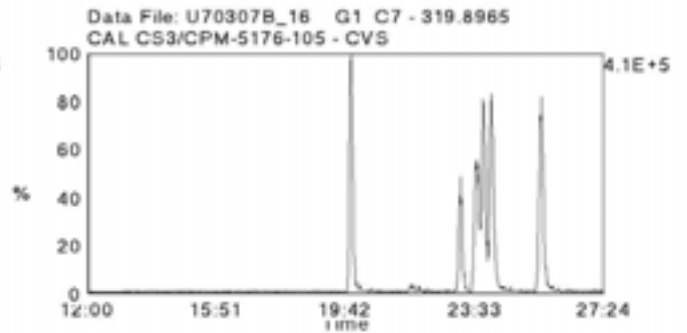
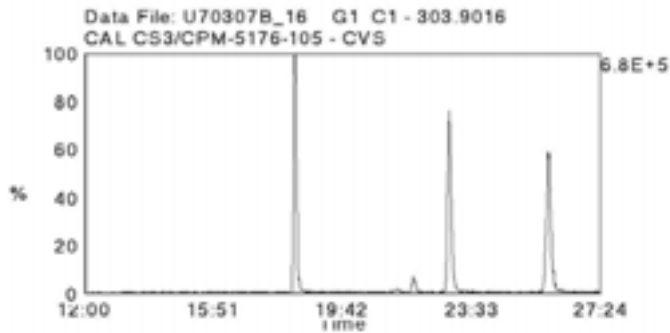
Data File Name: U70127A\_09  
Date Acquired: 1/27/2007  
Sample Description: CAL CS3/CPM-5176-105 - BAL

Lab Sample ID: CS3/CPM-5176-105  
Client Sample ID:  
Instrument: 10MSHR06 (U)



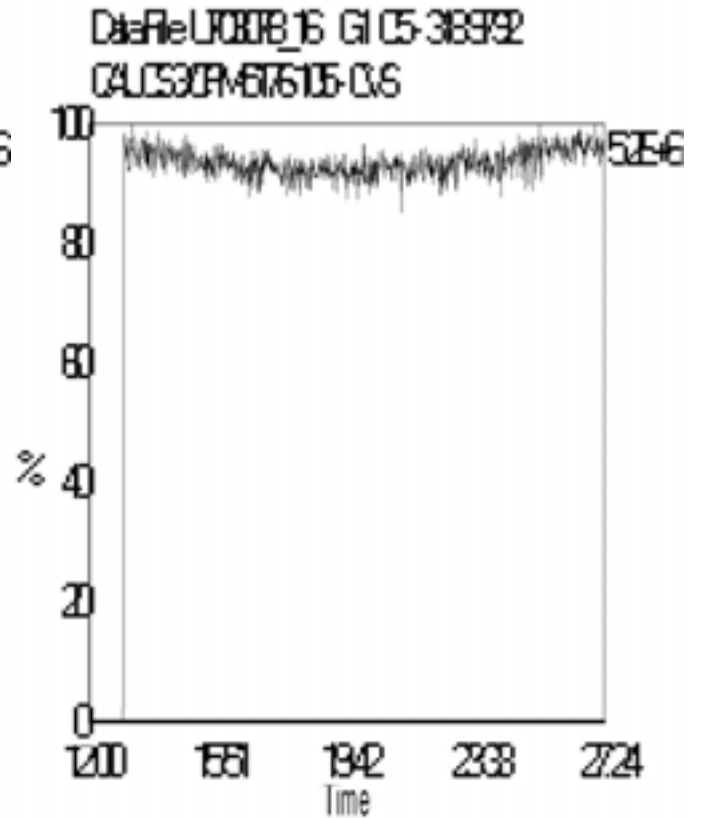
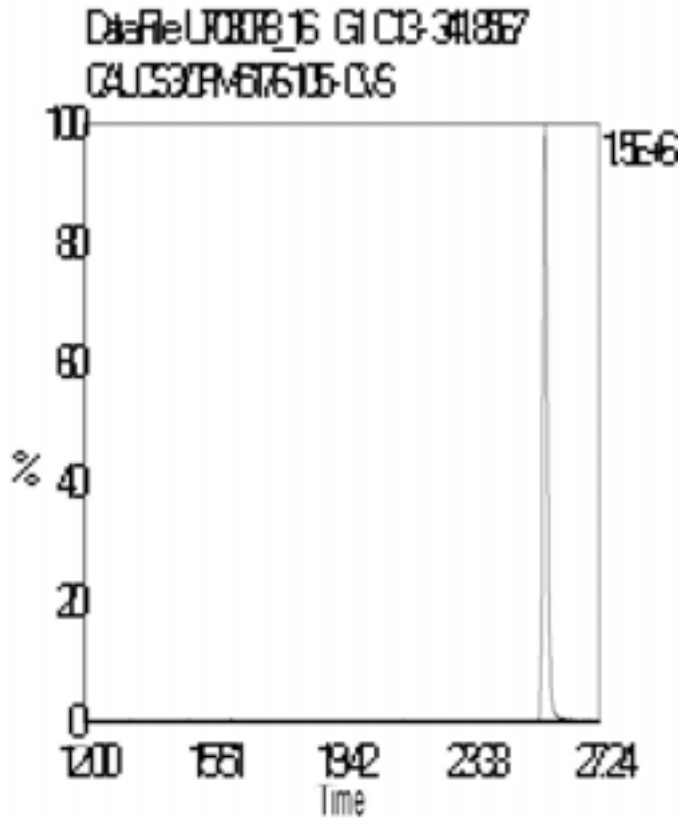
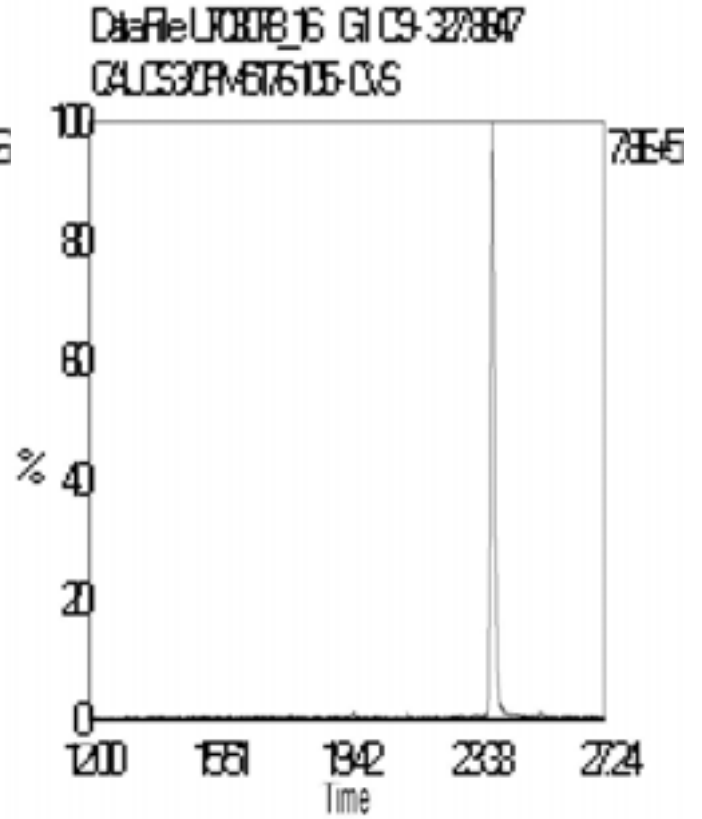
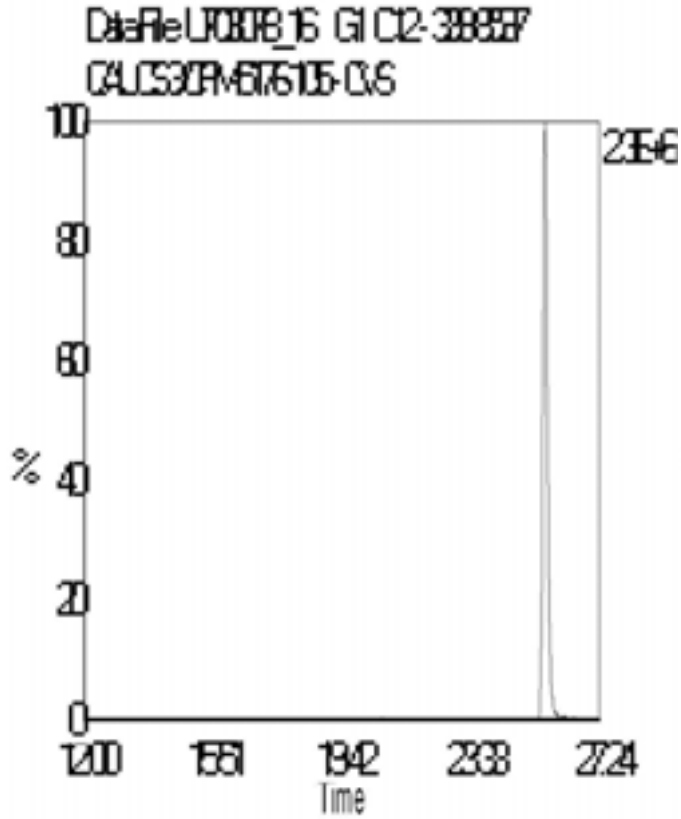
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Date Acquired: 3/8/2007  
Sample Description: CAL CS3/CPM-5176-105 - CVS

Lab Sample ID: CS3/CPM-5176-105  
Client Sample ID:  
Instrument: 10MSHR06 (U)



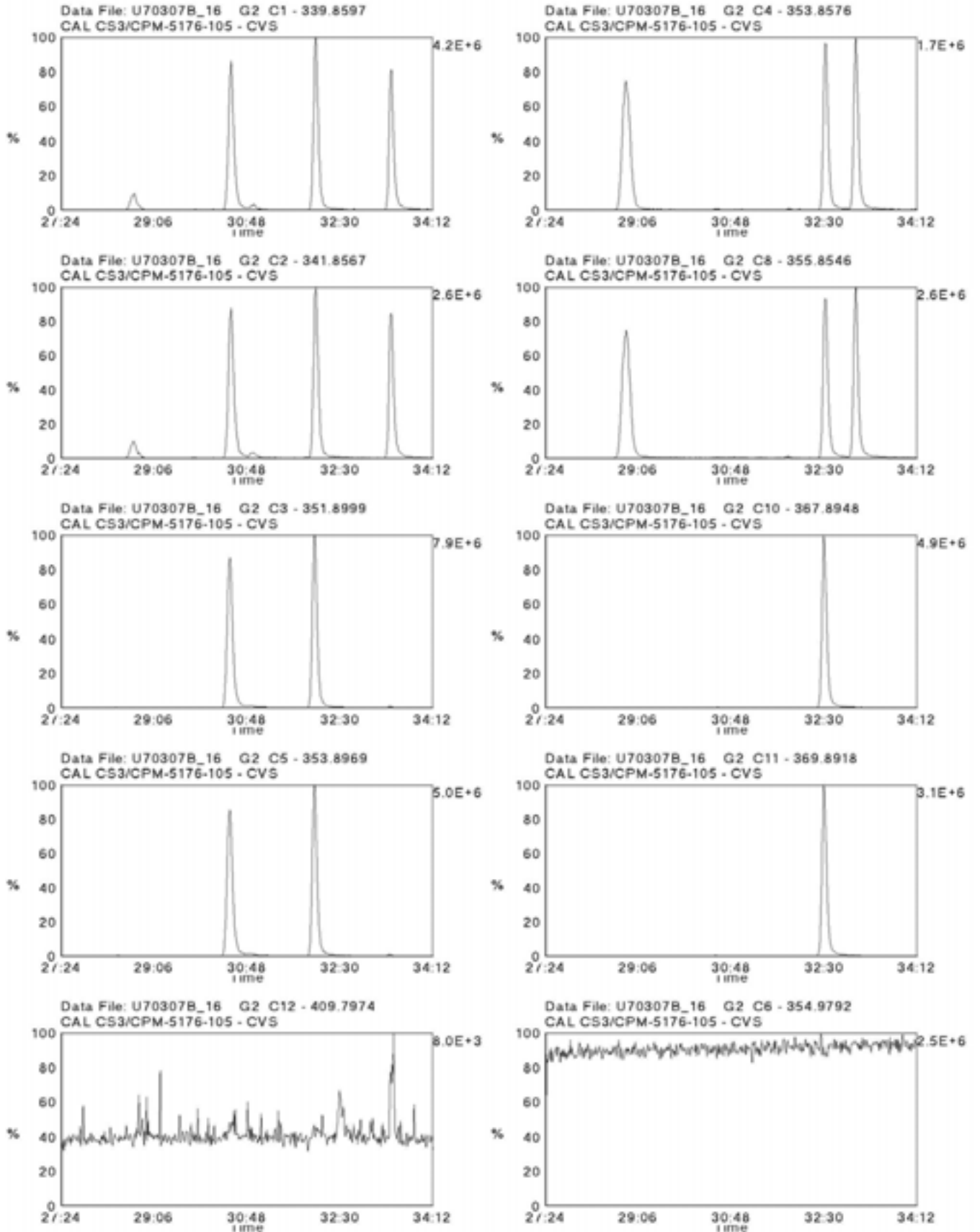
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Date Acquired: 3/8/2007  
Sample Description: CAL CS3/CPM-5176-105 - CVS

Lab Sample ID: CS3/CPM-5176-105  
Client Sample ID:  
Instrument: 10MSHR06 (U)



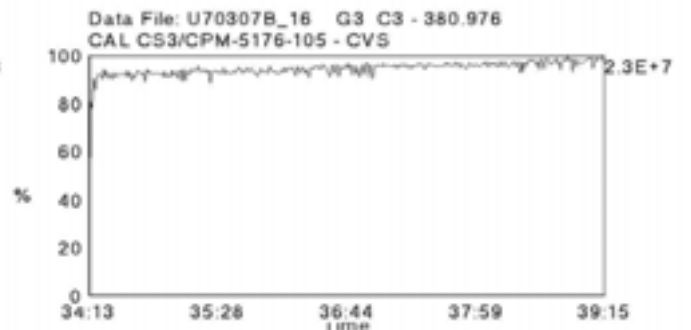
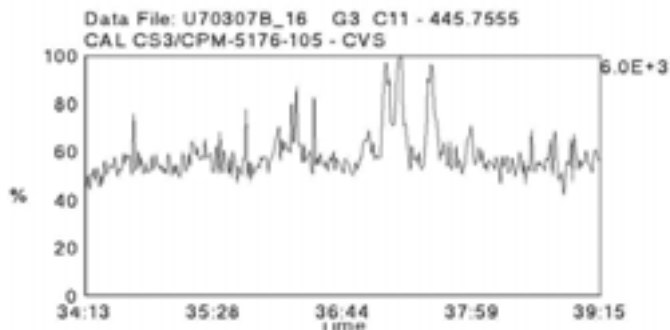
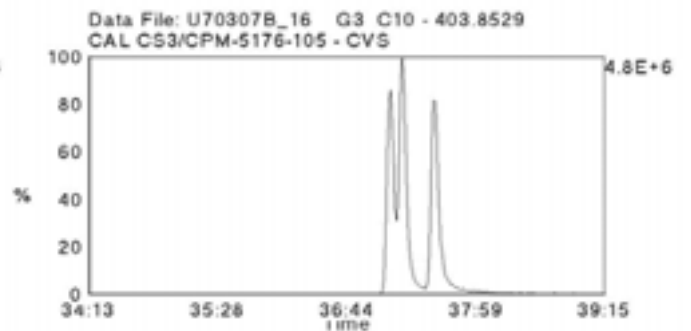
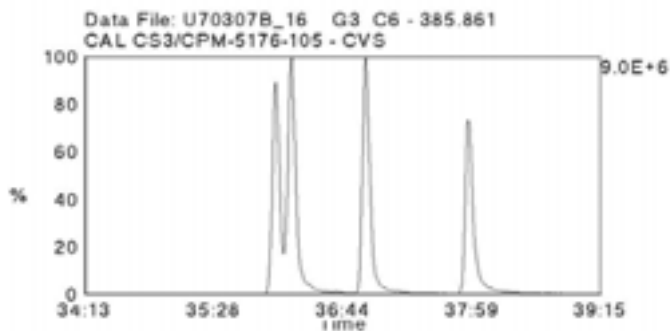
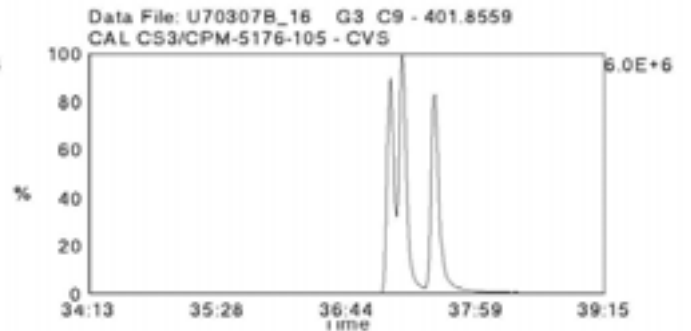
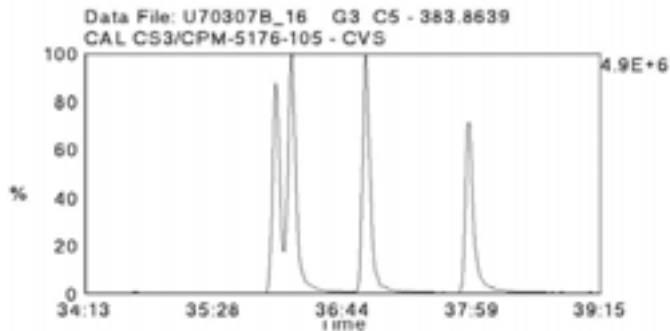
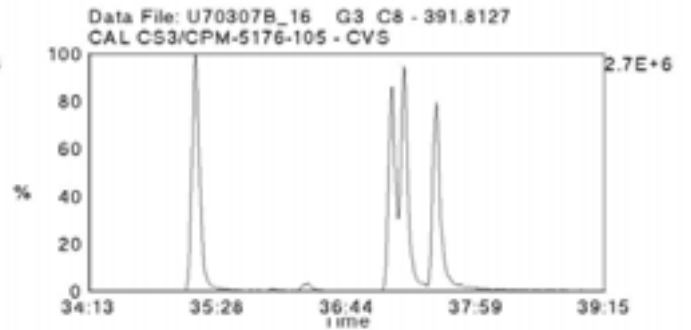
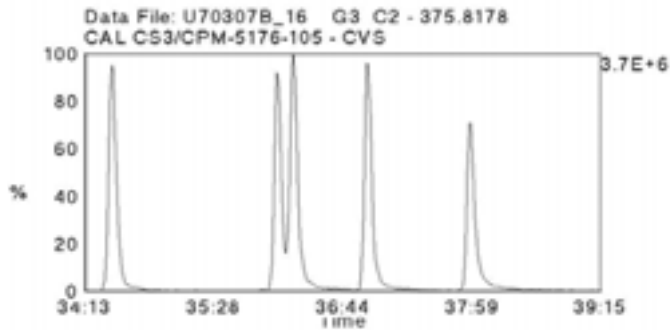
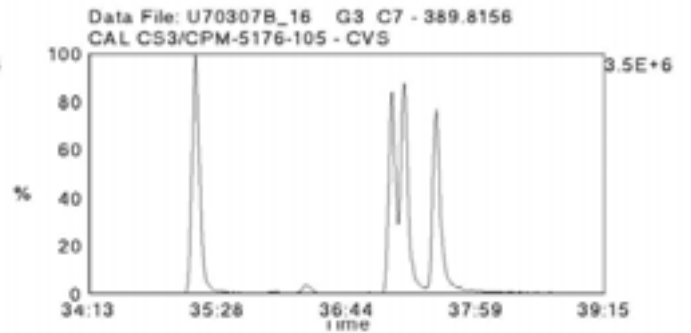
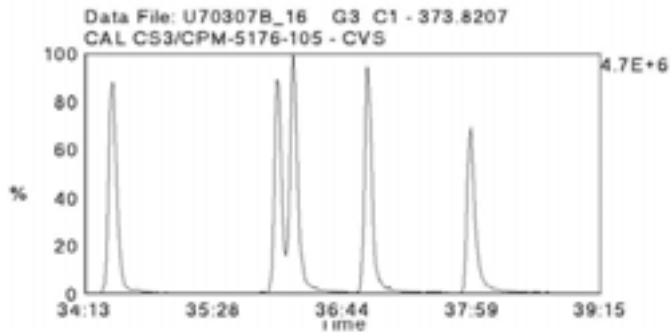
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Date Acquired: 3/8/2007  
Sample Description: CAL CS3/CPM-5176-105 - CVS

Lab Sample ID: CS3/CPM-5176-105  
Client Sample ID:  
Instrument: 10MSHR06 (U)



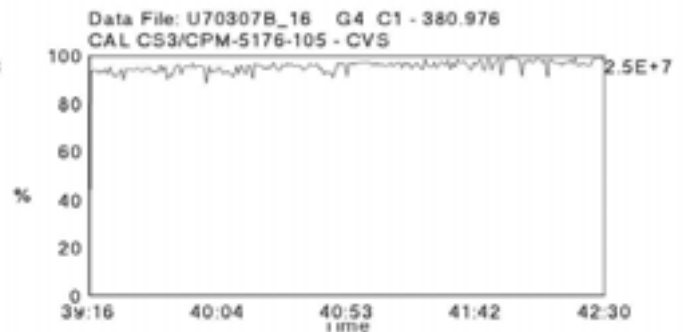
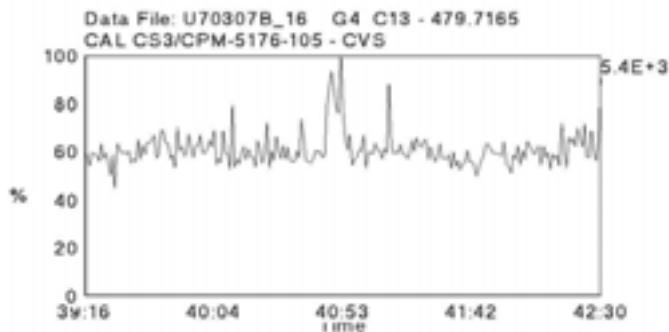
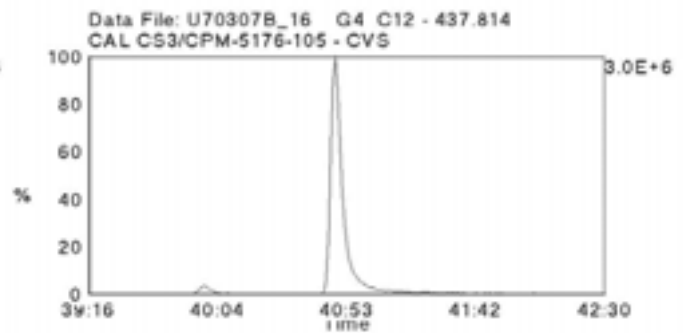
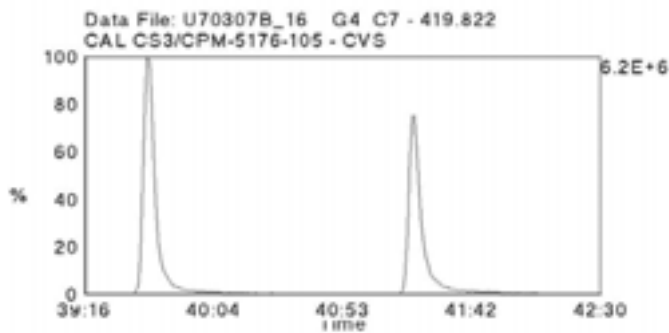
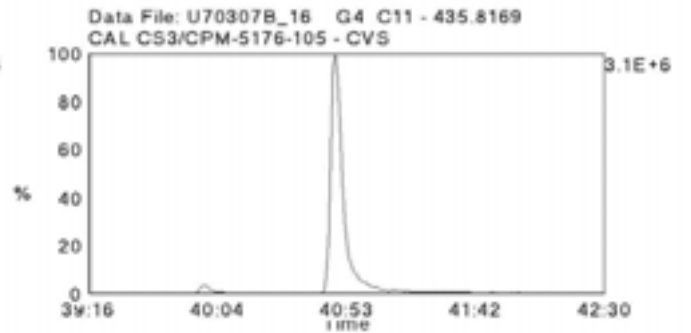
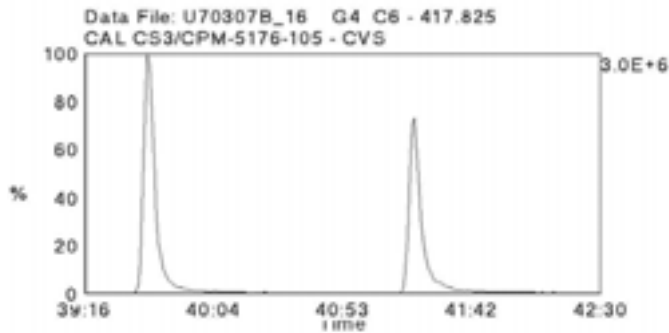
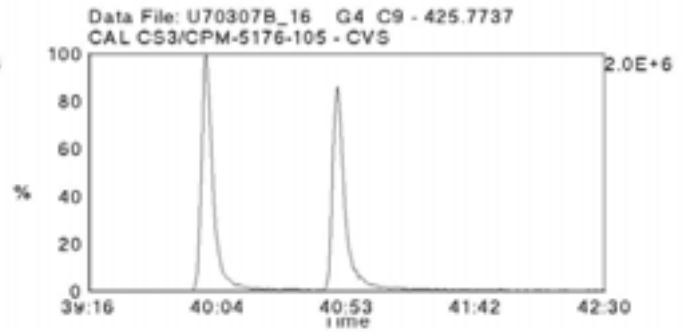
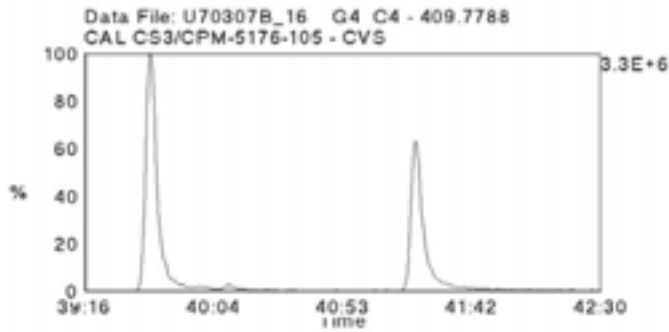
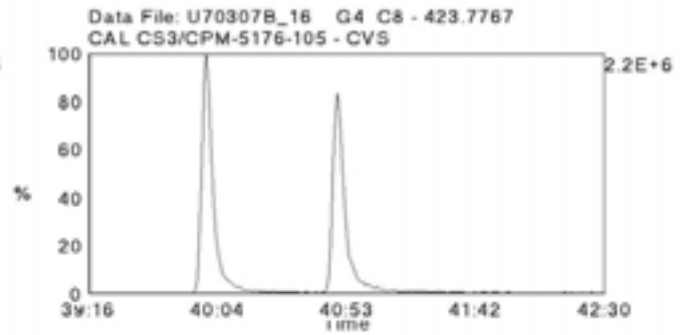
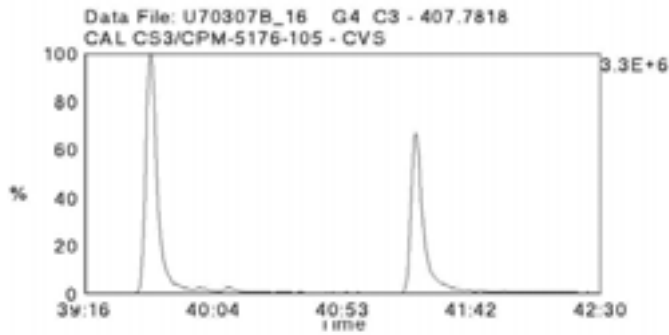
Data File Name: U70307B\_16  
Date Acquired: 3/8/2007  
Sample Description: CAL CS3/CPM-5176-105 - CVS

Lab Sample ID: CS3/CPM-5176-105  
Client Sample ID:  
Instrument: 10MSHR06 (U)



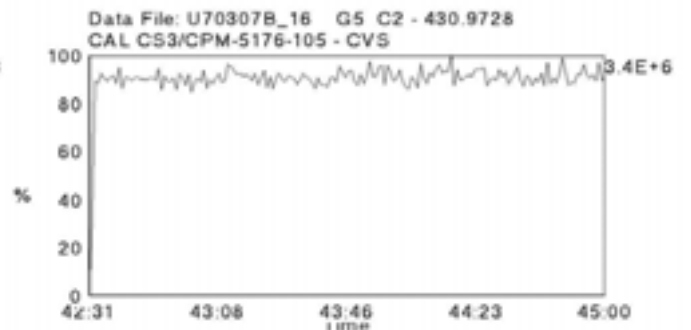
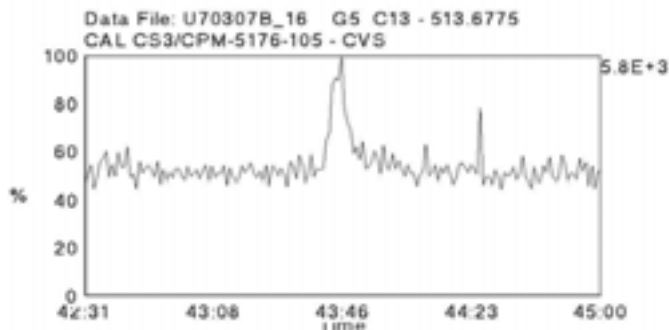
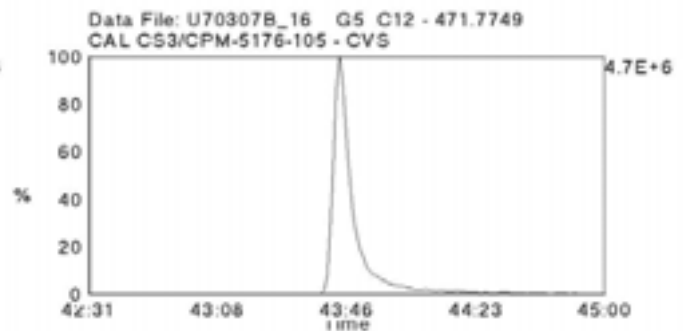
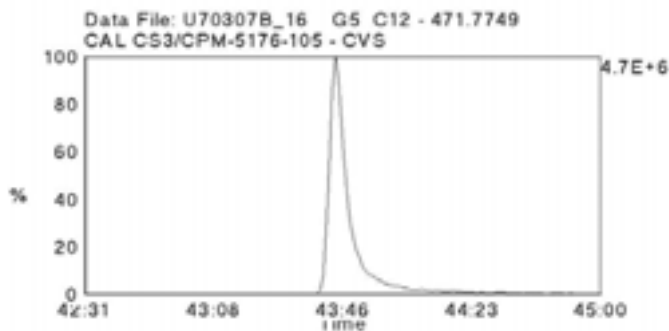
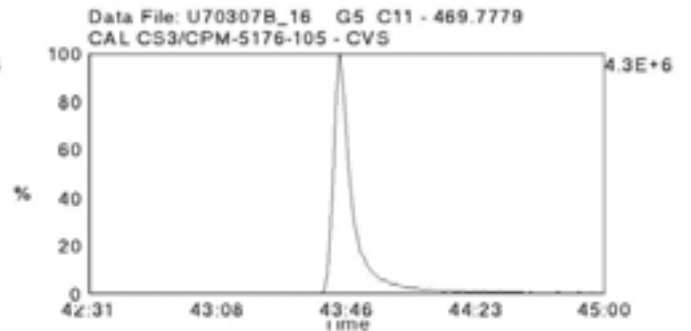
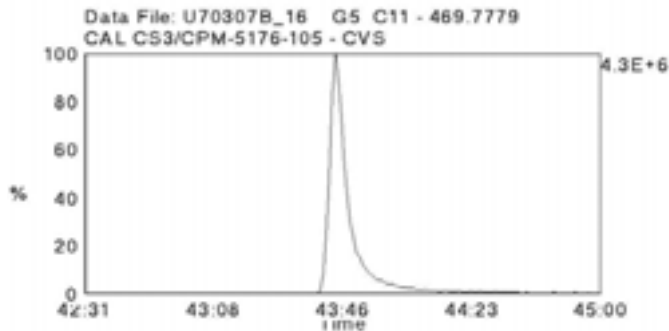
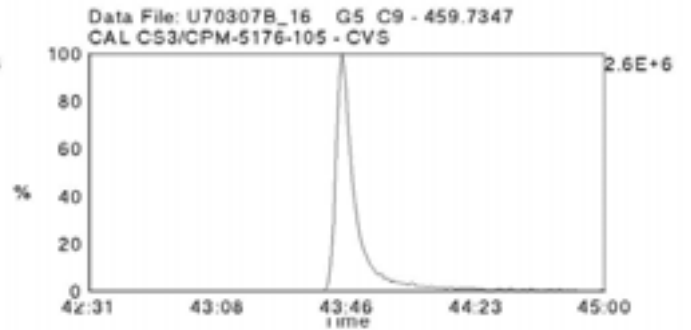
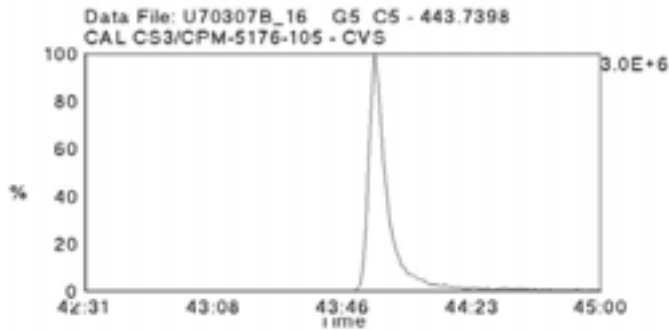
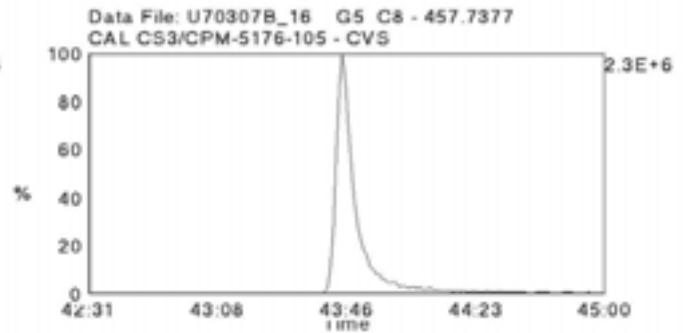
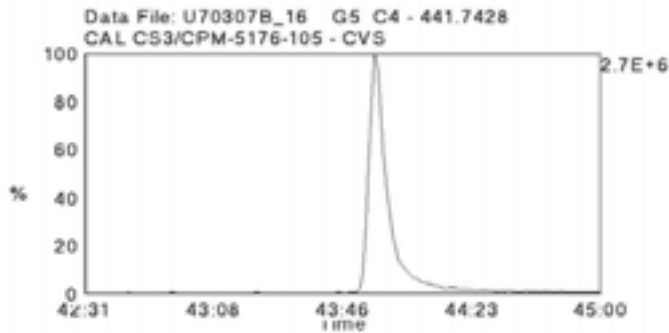
Data File Name: U70307B\_16  
Date Acquired: 3/8/2007  
Sample Description: CAL CS3/CPM-5176-105 - CVS

Lab Sample ID: CS3/CPM-5176-105  
Client Sample ID:  
Instrument: 10MSHR06 (U)



Data File Name: U70307B\_16  
Date Acquired: 3/8/2007  
Sample Description: CAL CS3/CPM-5176-105 - CVS

Lab Sample ID: CS3/CPM-5176-105  
Client Sample ID:  
Instrument: 10MSHR06 (U)



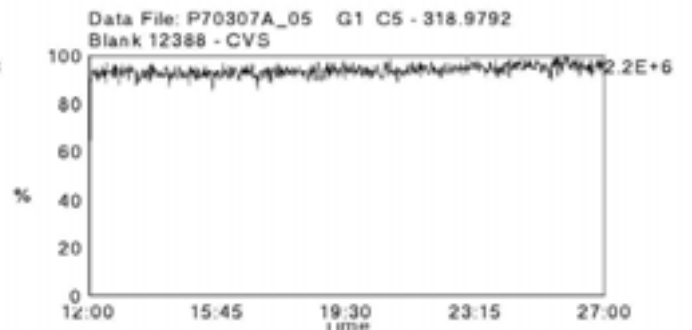
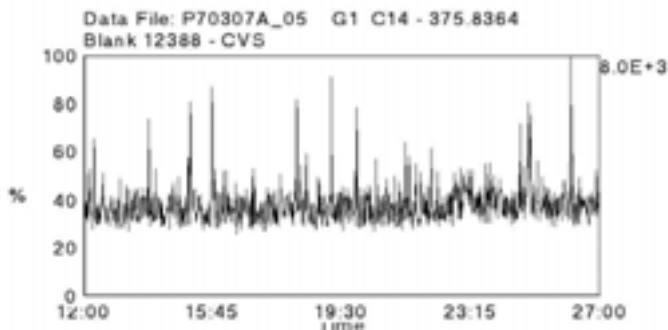
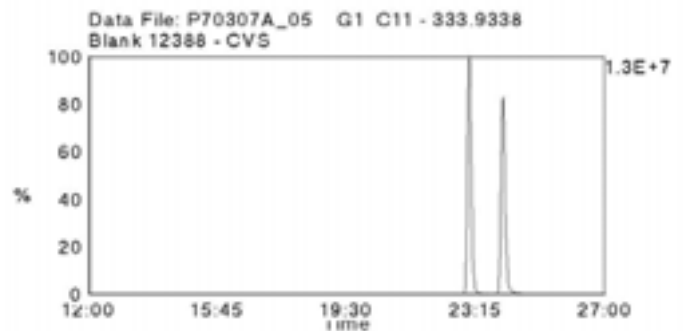
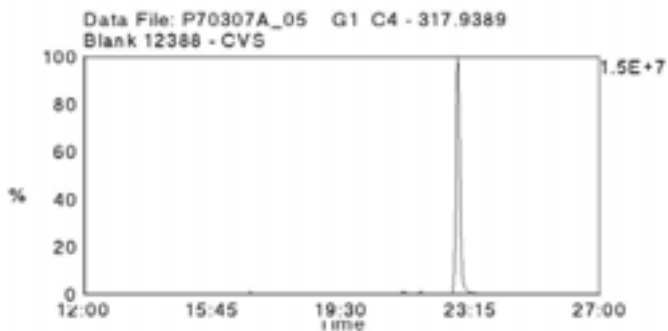
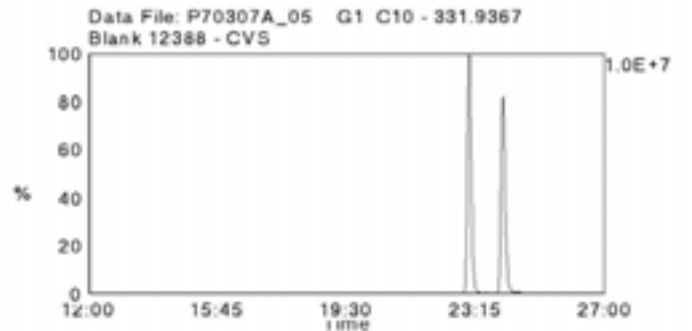
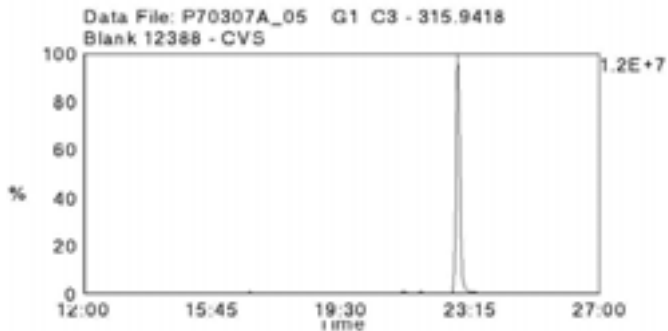
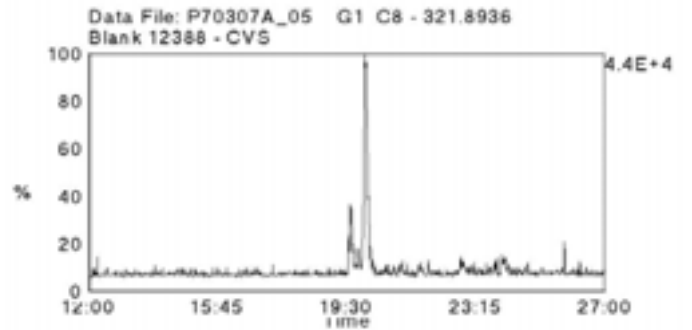
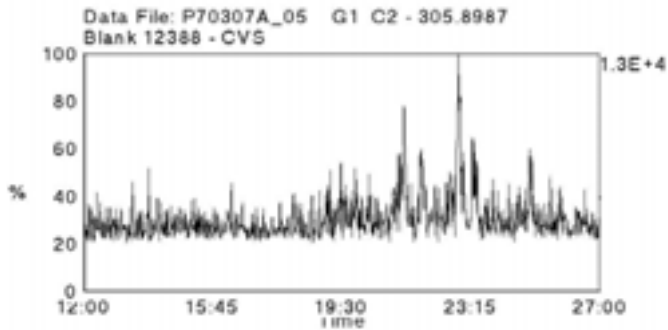
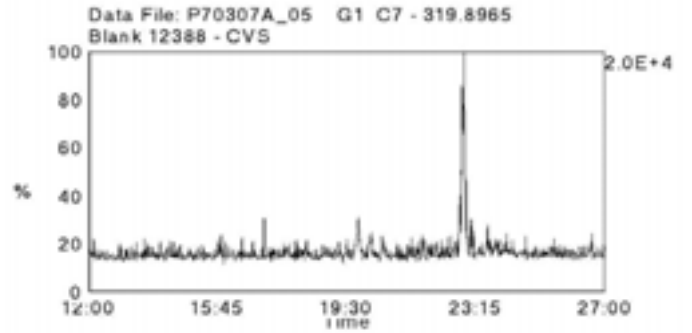
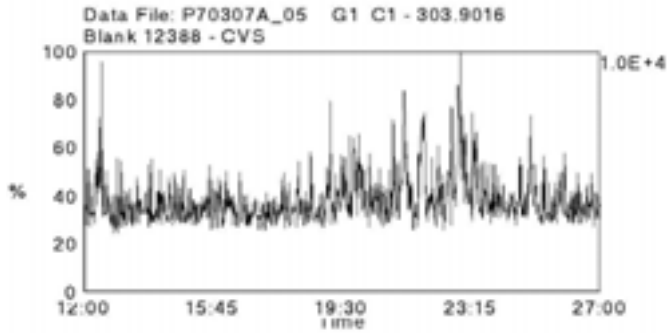


# Appendix F

QC Raw Data

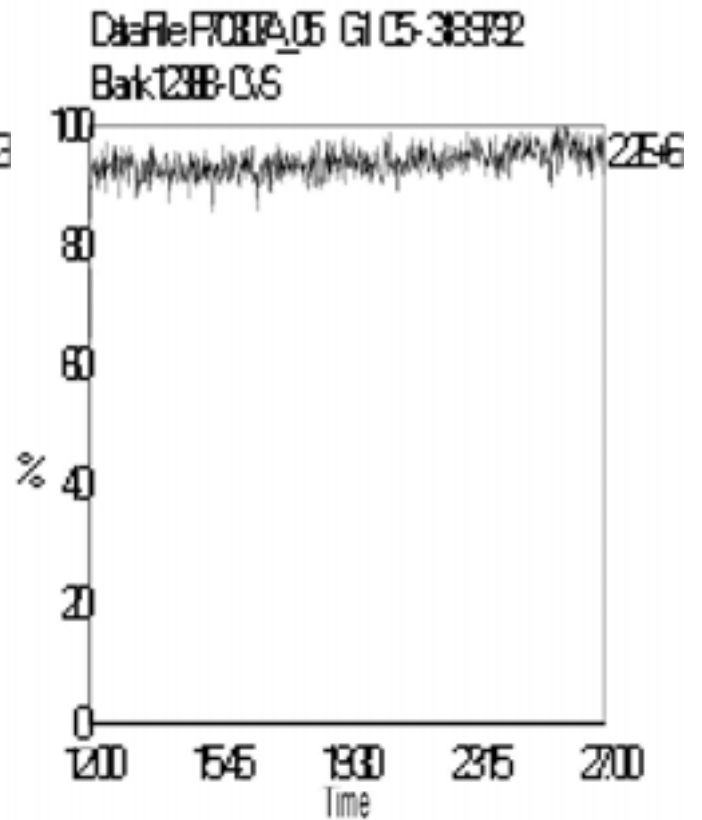
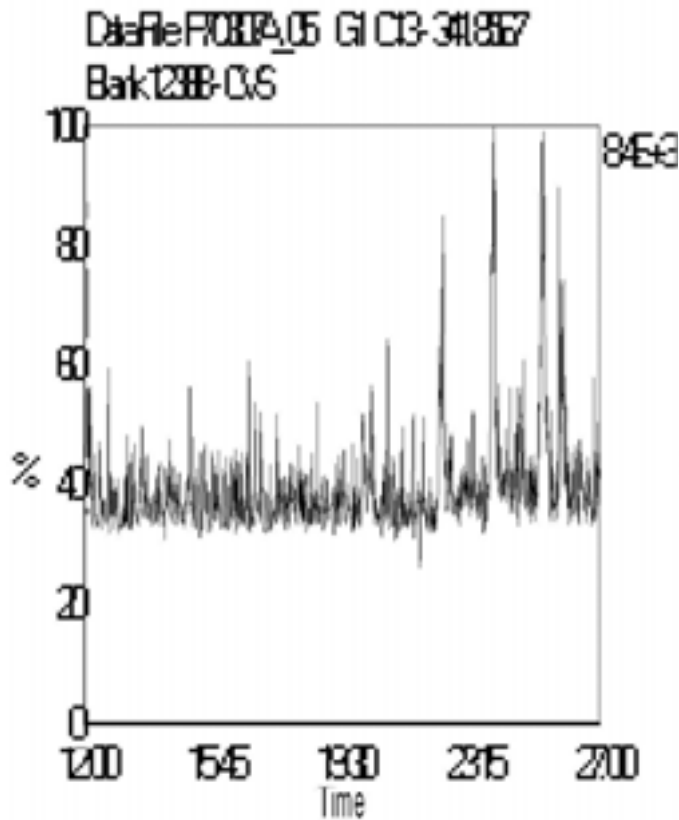
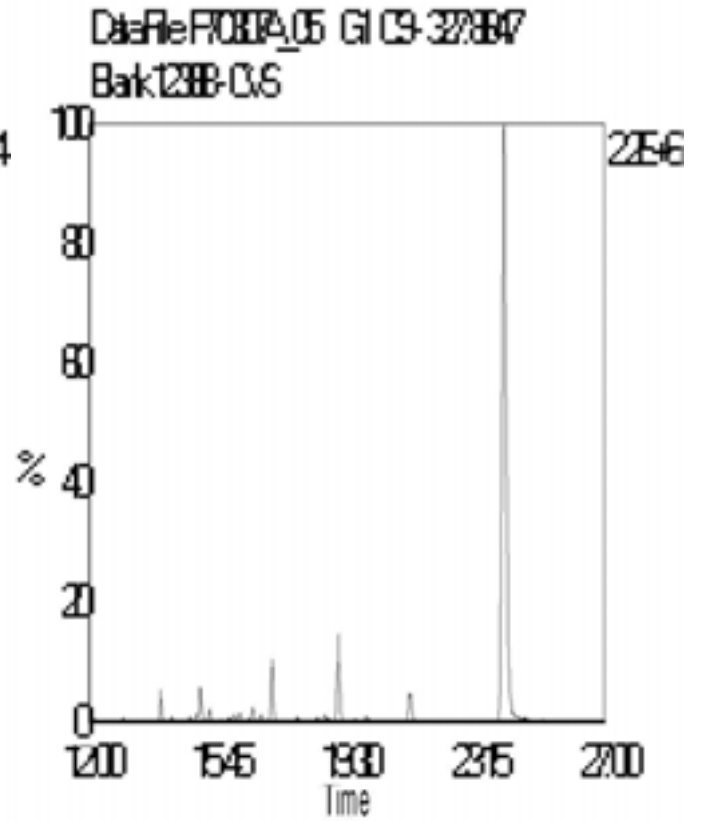
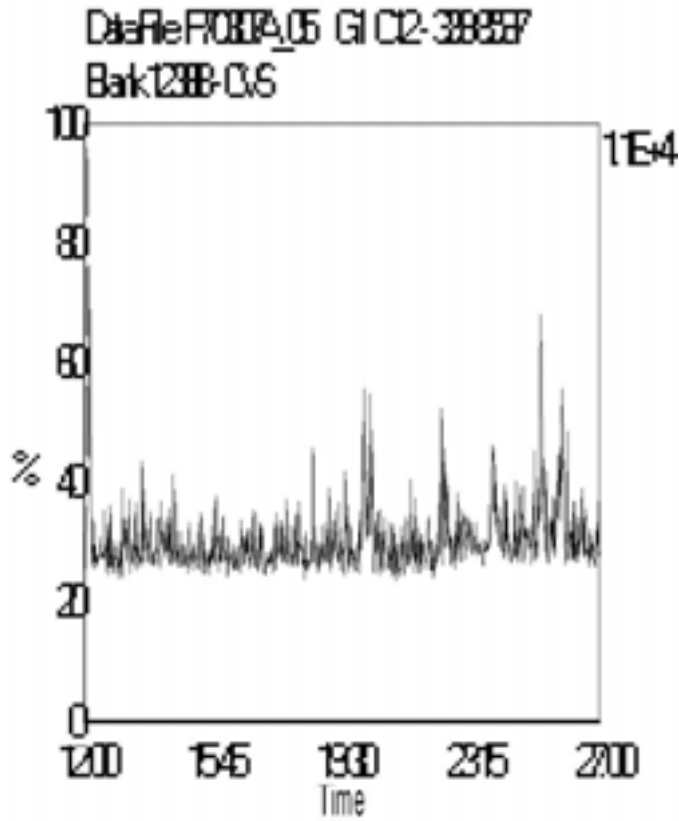
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Date Acquired: 3/7/2007  
Sample Description: Blank 12388 - CVS

Lab Sample ID: BLANK-12388  
Client Sample ID:  
Instrument: 10MSHR09 (P)



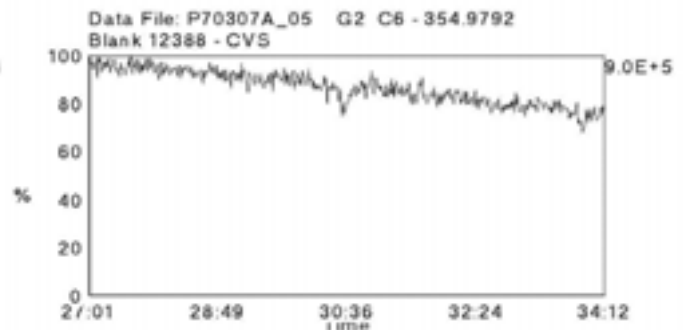
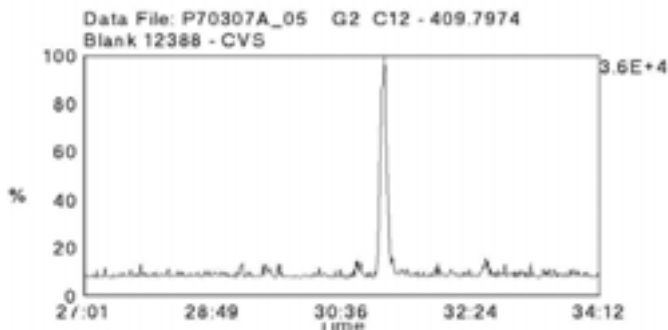
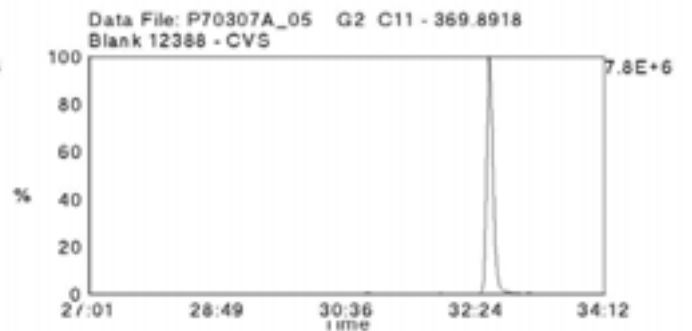
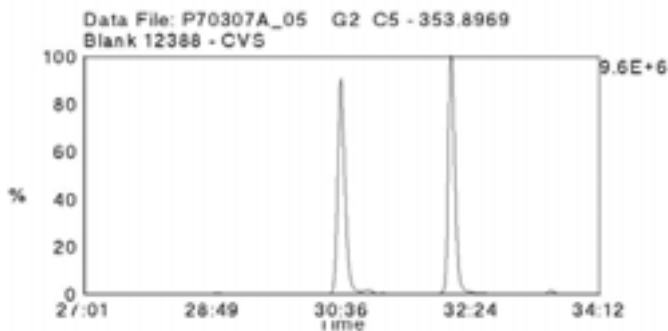
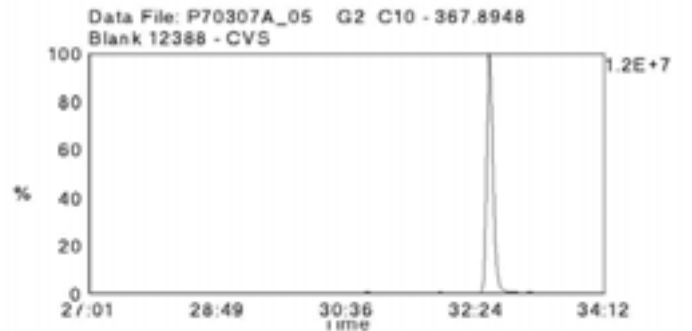
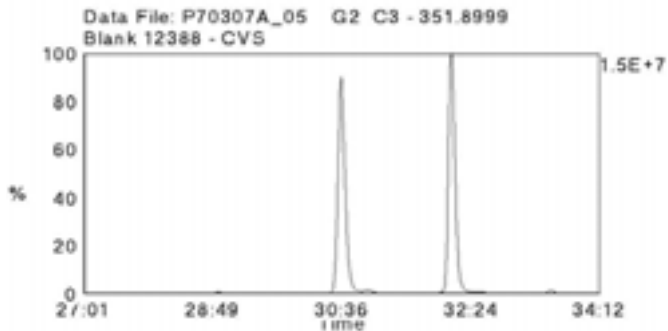
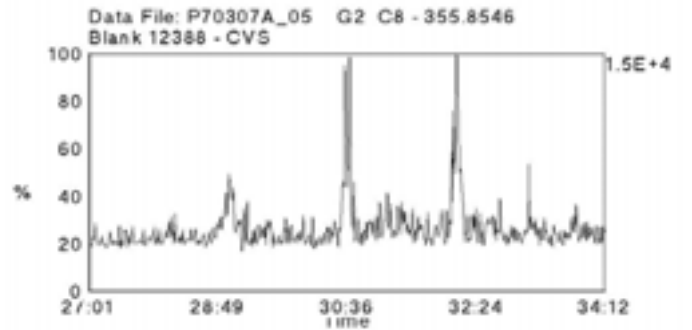
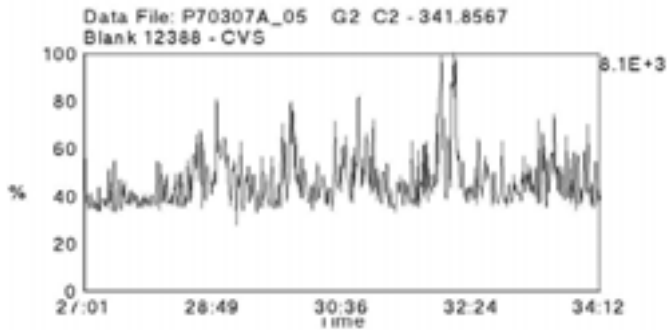
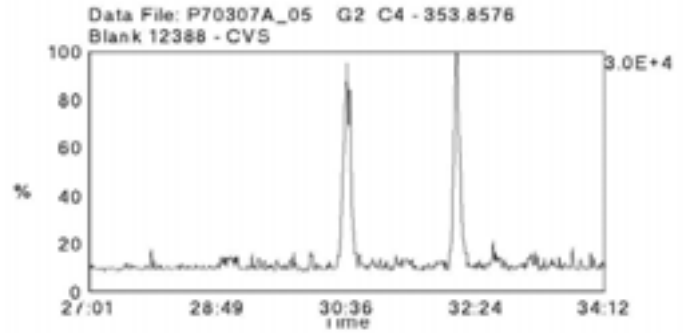
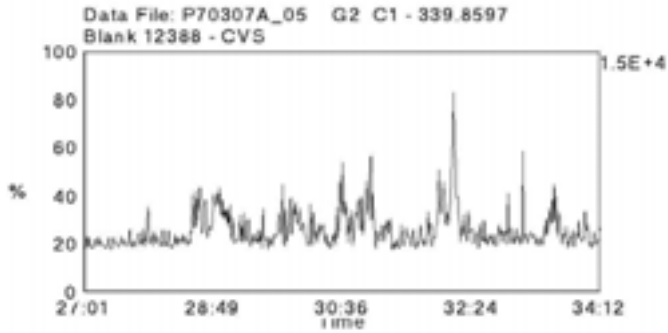
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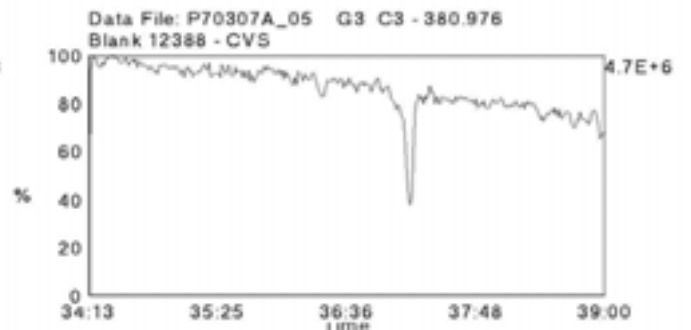
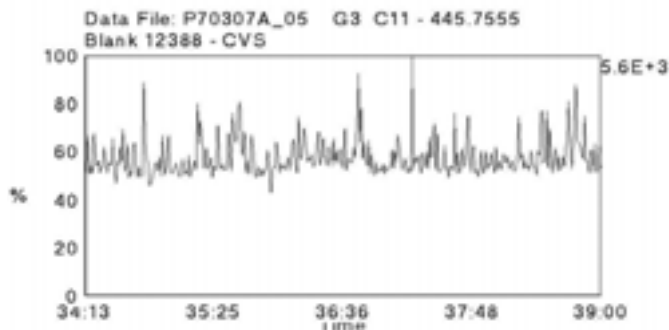
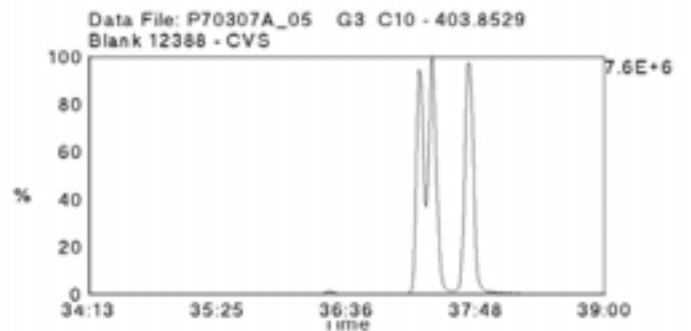
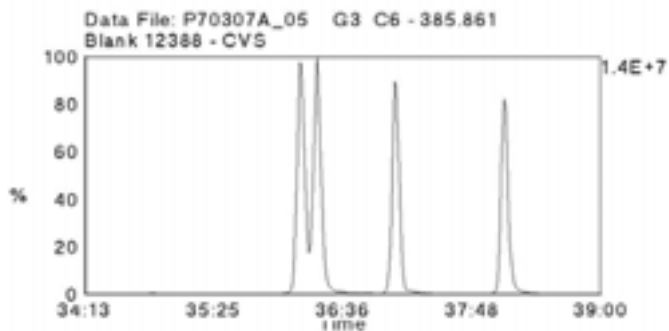
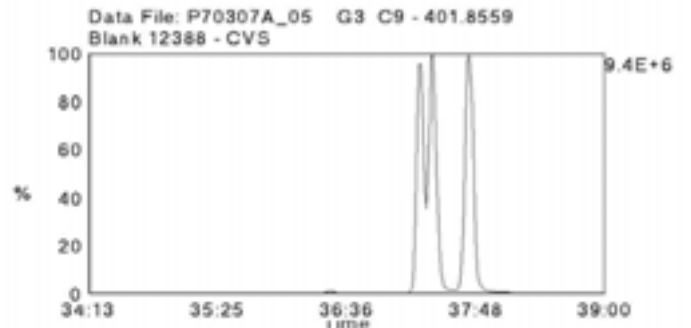
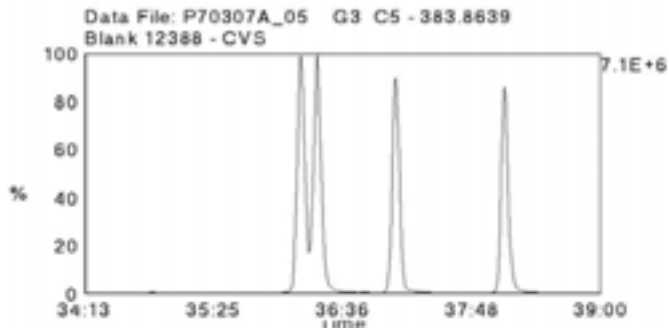
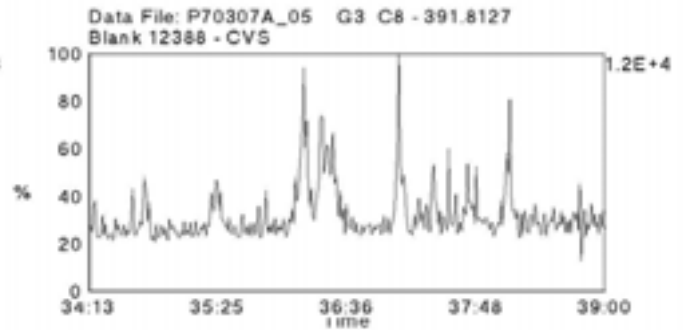
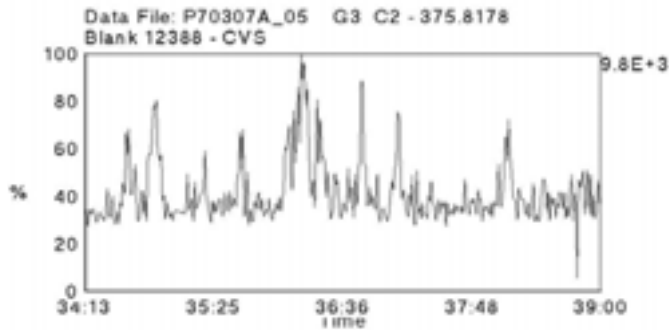
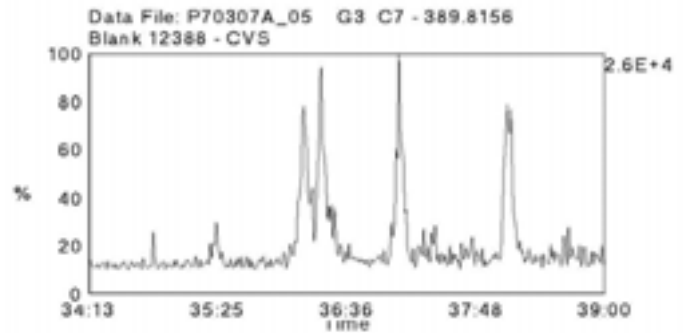
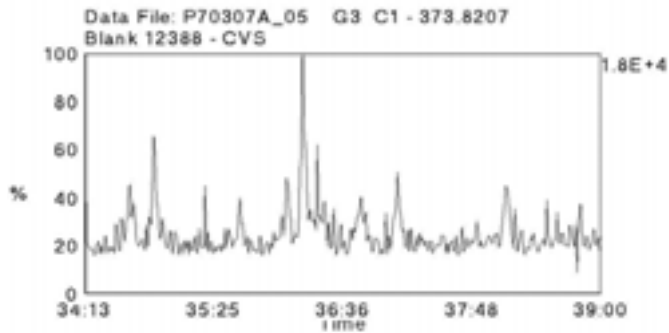
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Instrument: 10MSHR09 (P)



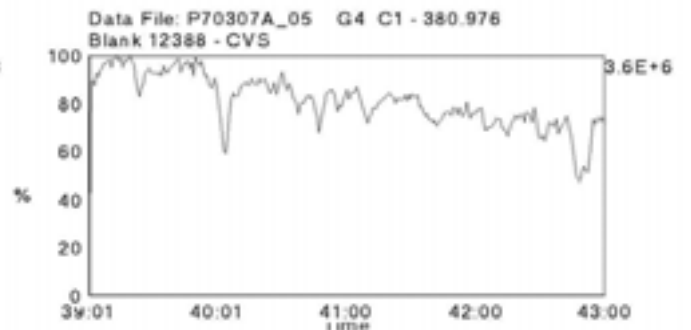
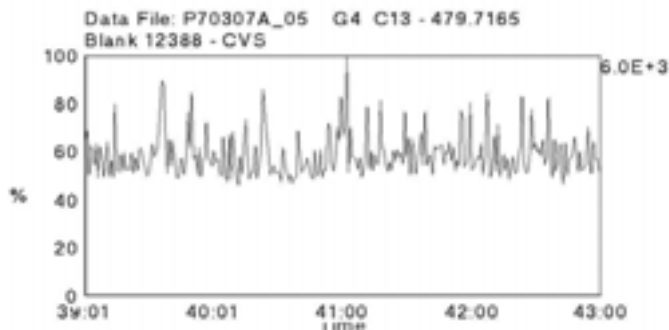
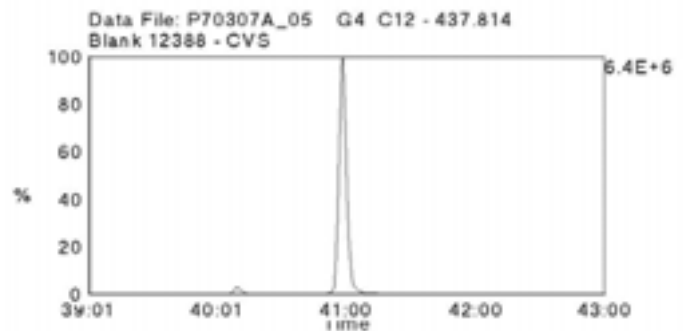
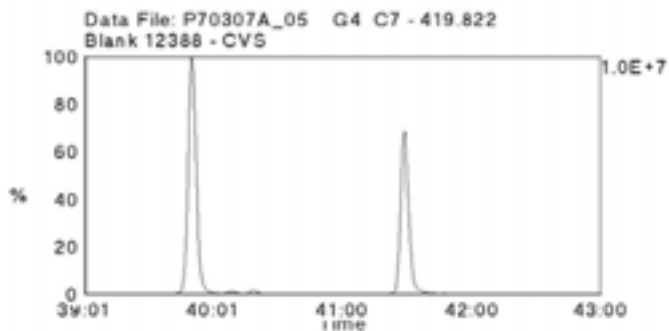
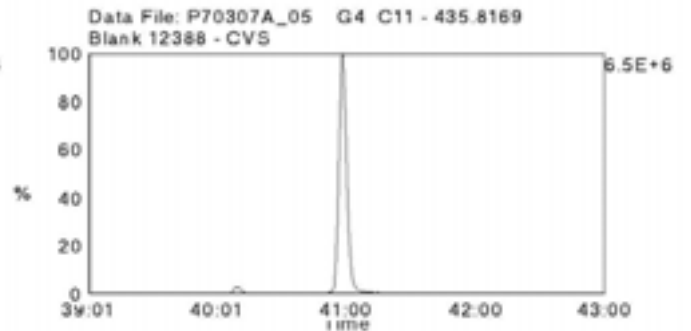
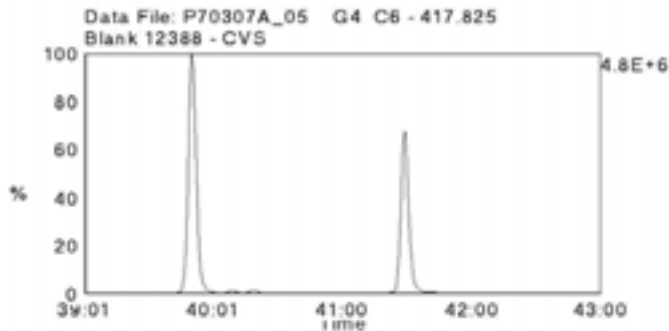
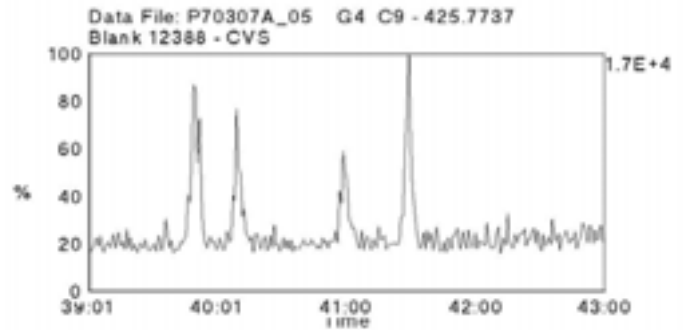
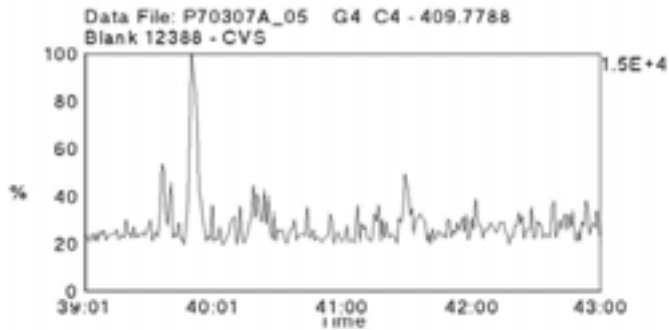
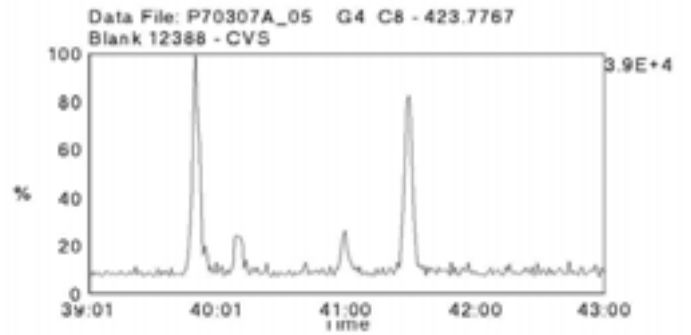
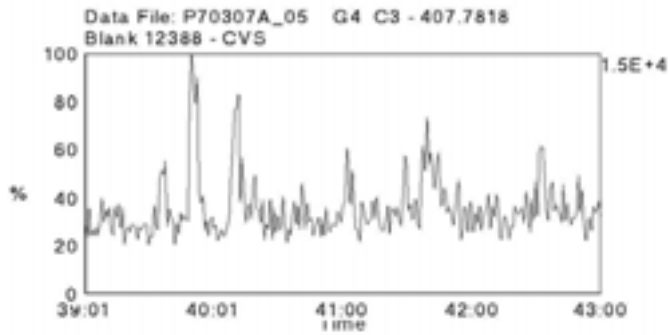
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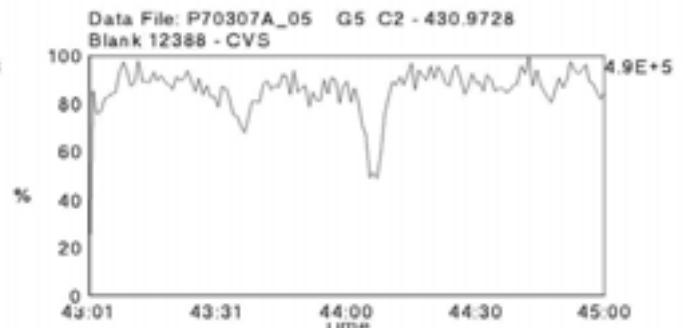
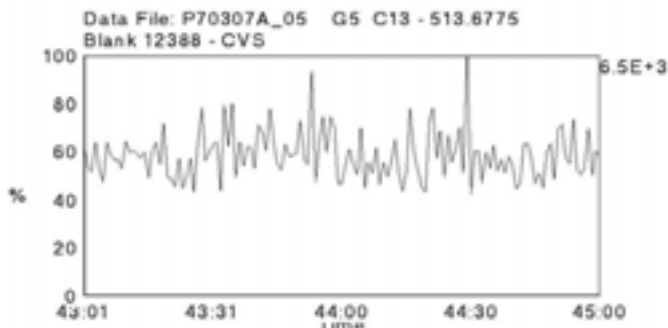
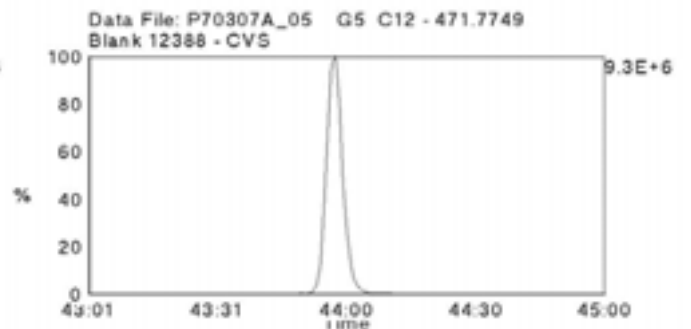
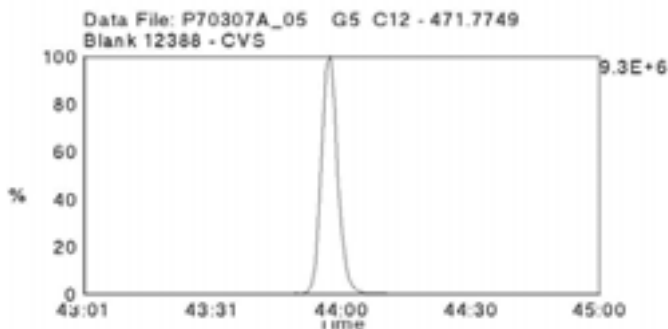
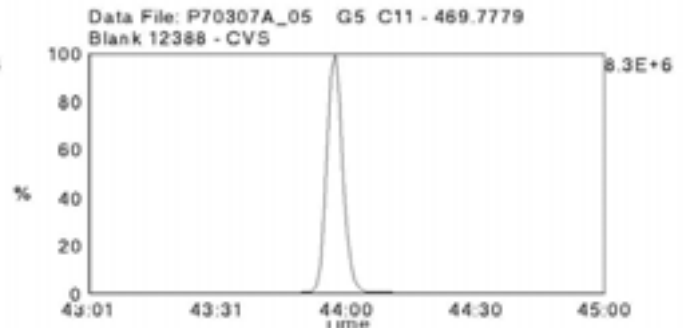
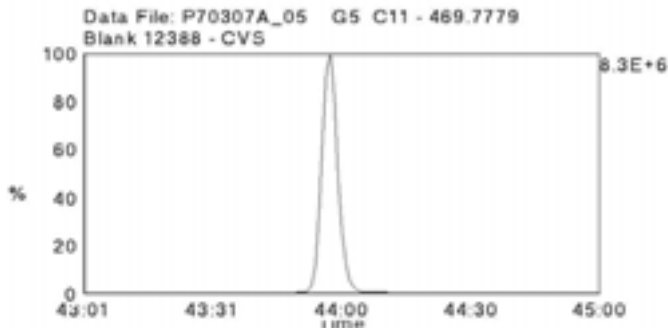
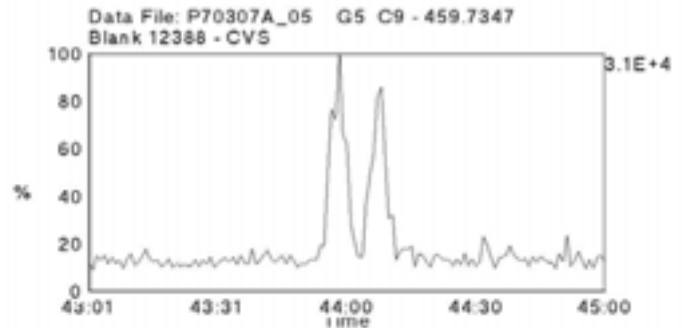
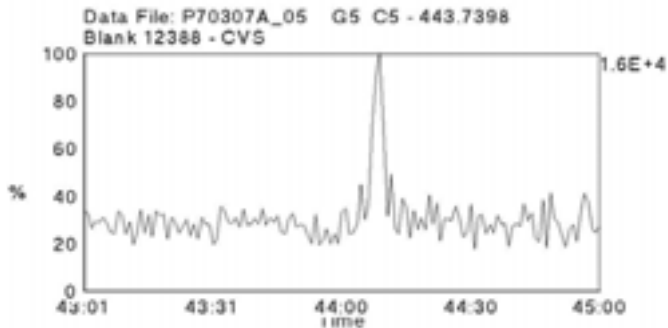
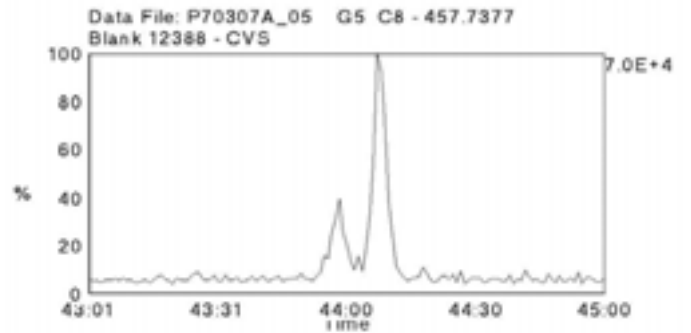
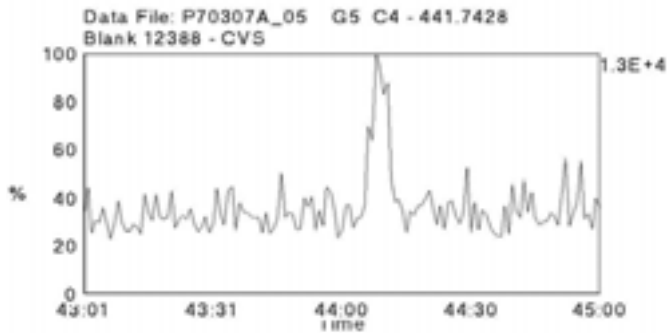
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Instrument: 10MSHR09 (P)



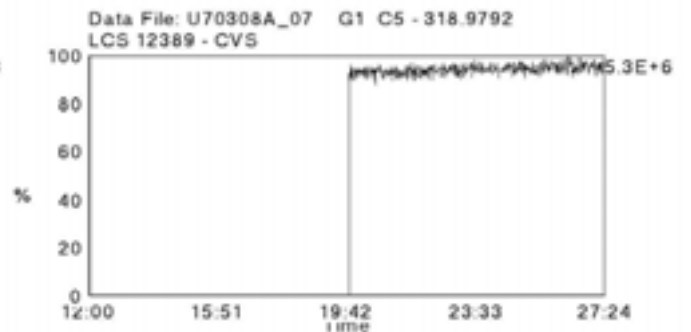
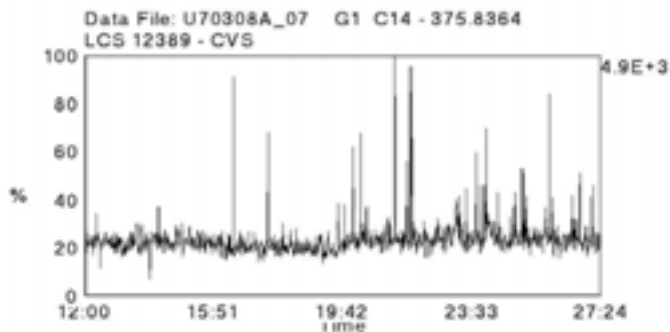
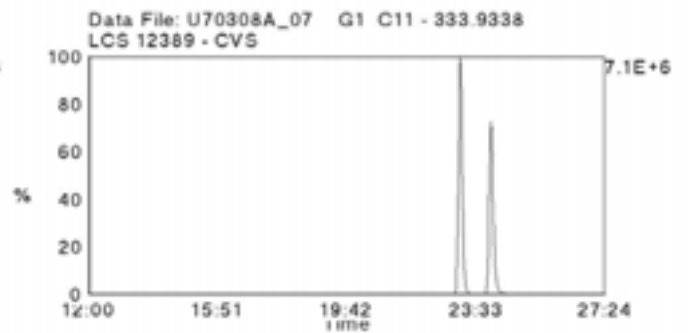
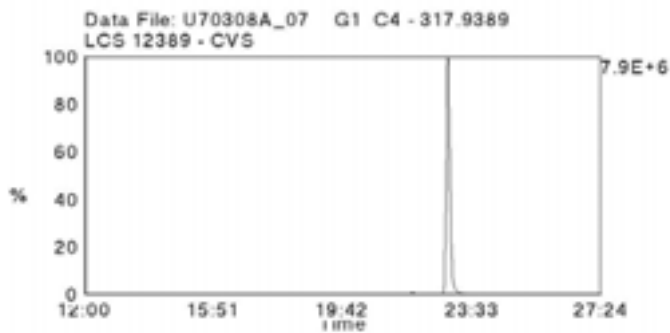
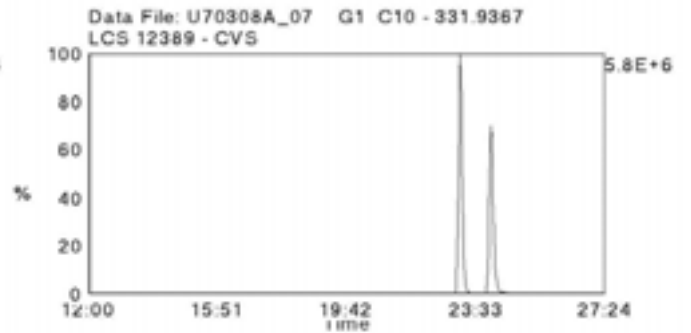
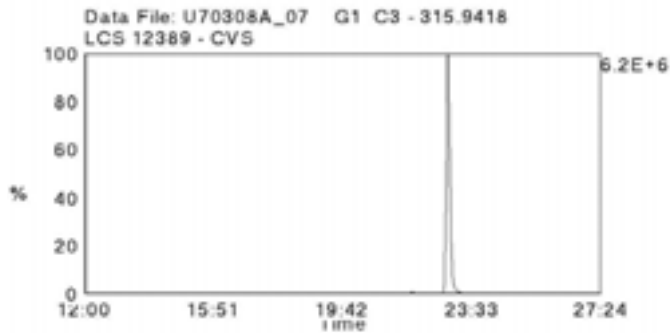
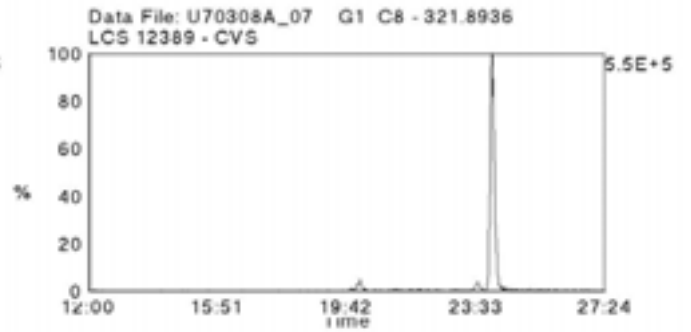
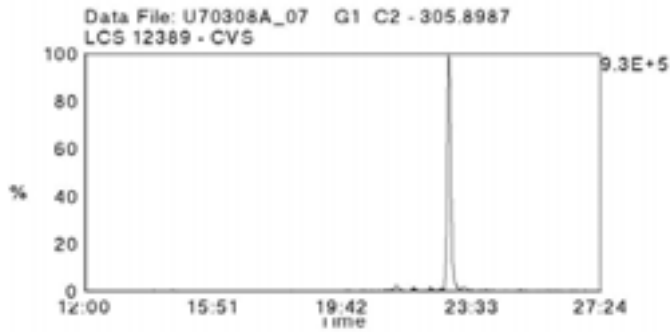
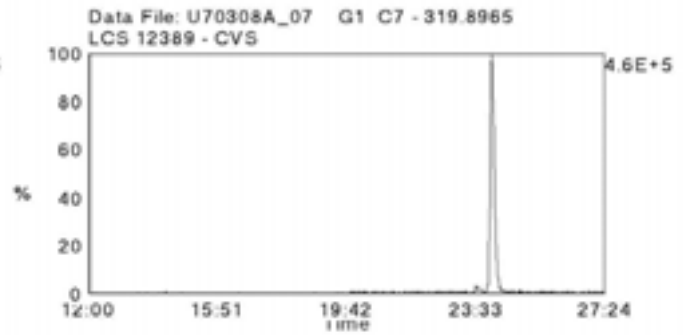
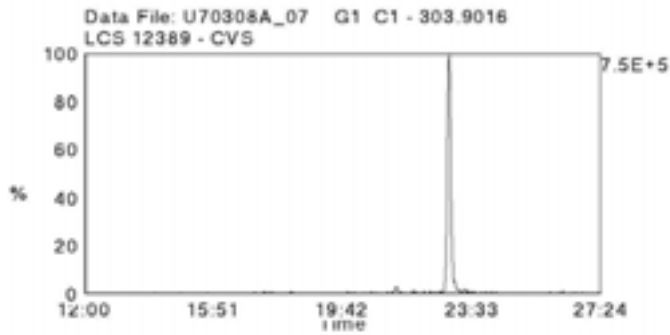
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Lab Sample ID: BLANK-12388  
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Instrument: 10MSHR09 (P)



Data File Name: U70308A\_07  
Date Acquired: 3/8/2007  
Sample Description: LCS 12389 - CVS

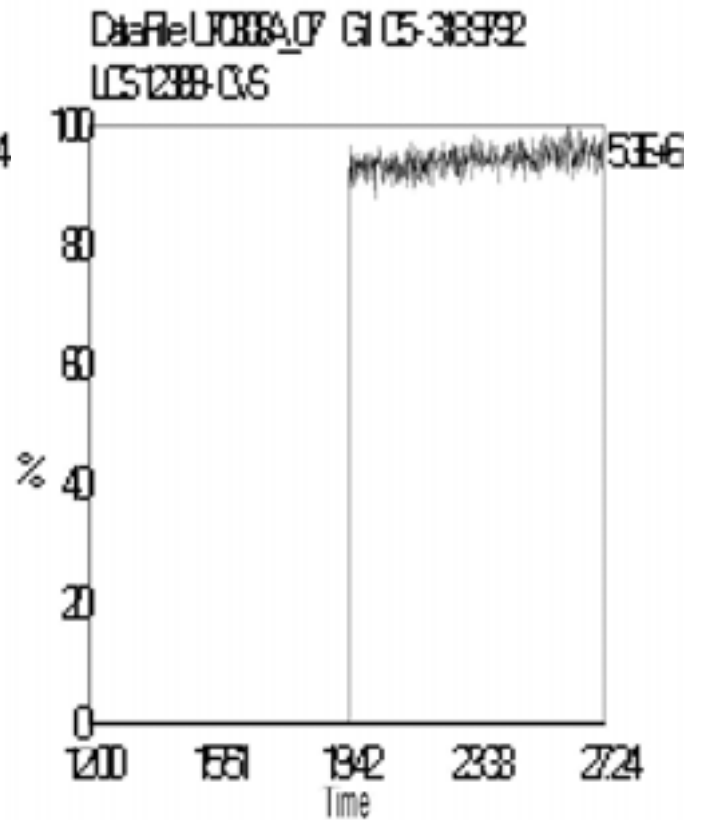
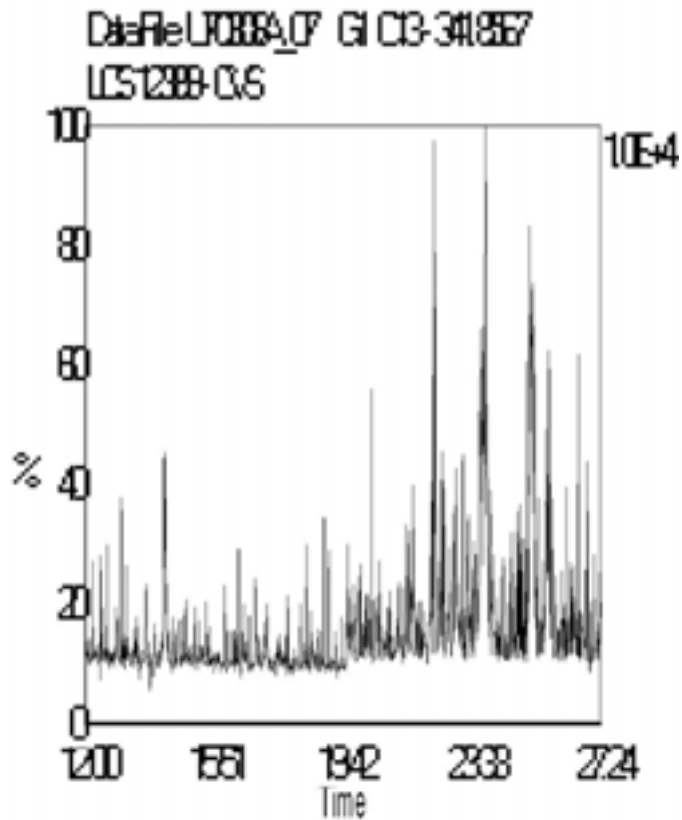
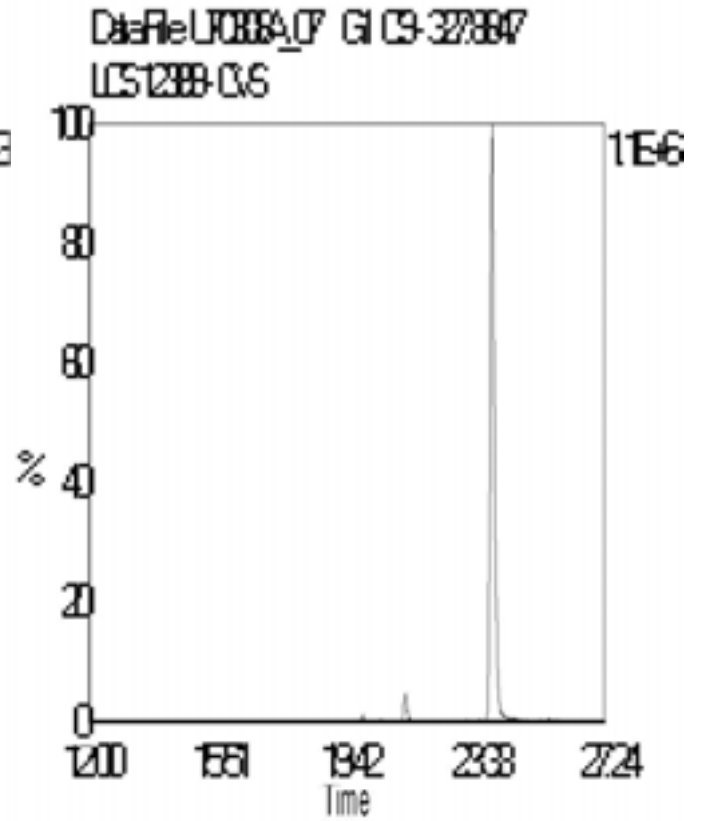
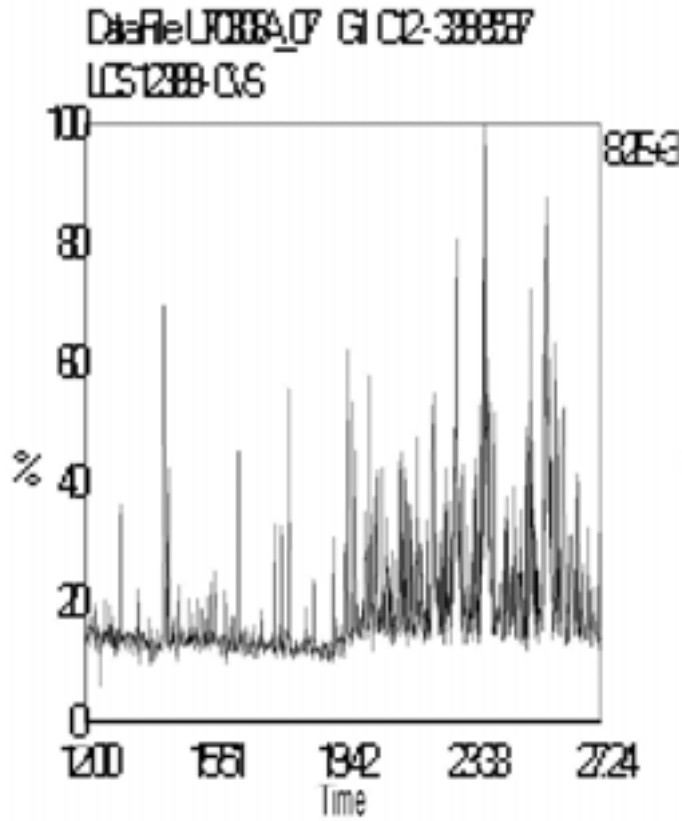
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Instrument: 10MSHR06 (U)





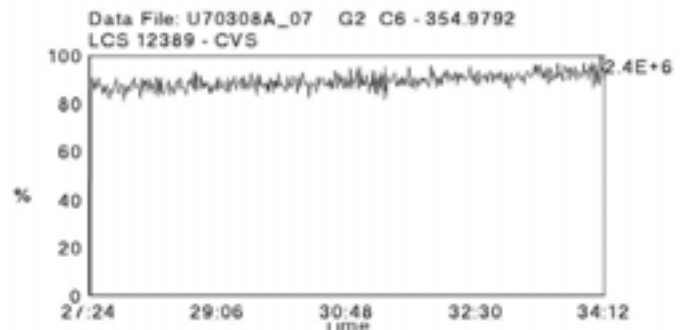
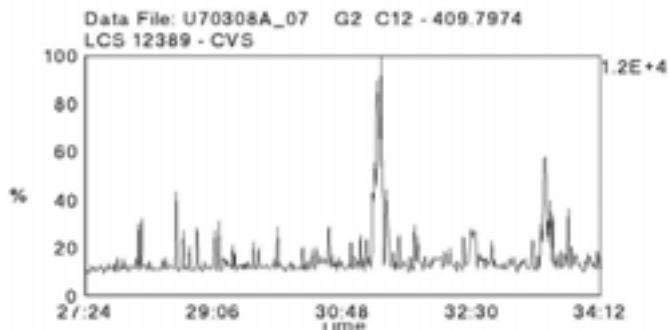
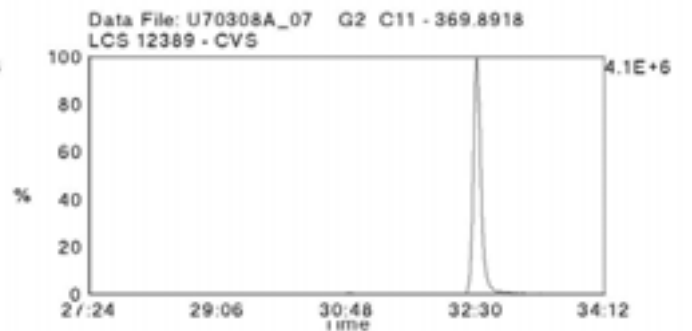
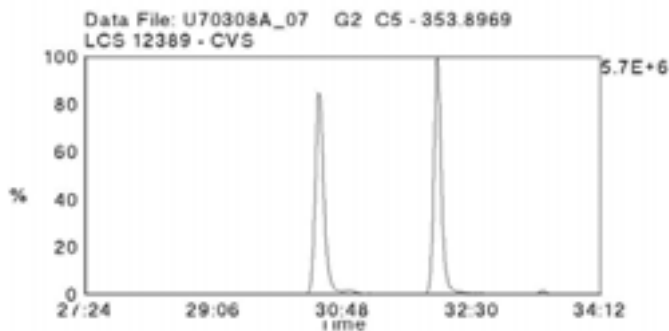
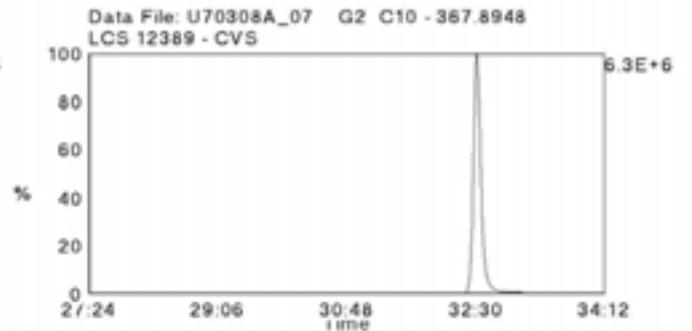
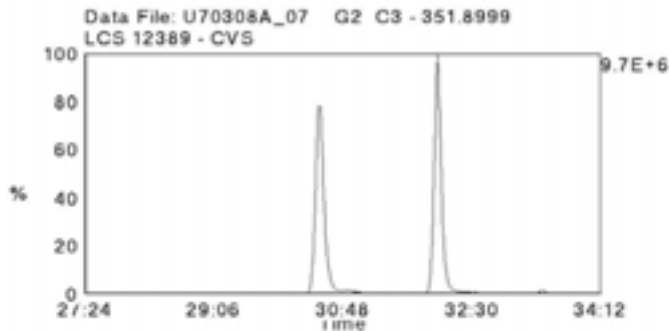
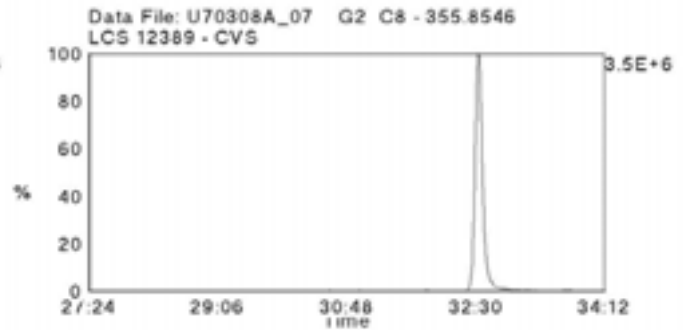
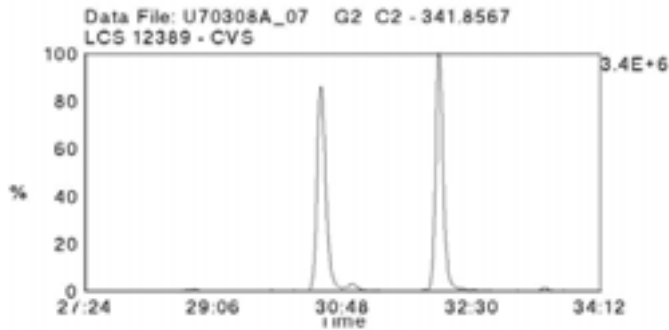
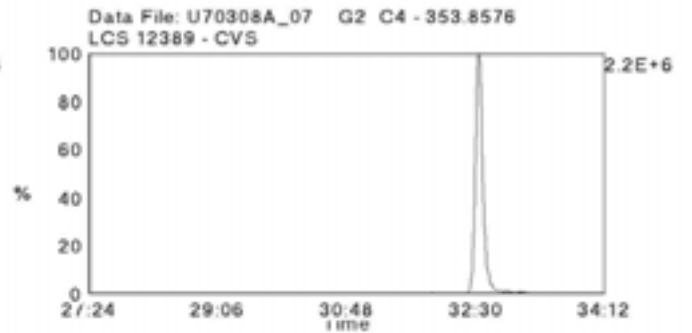
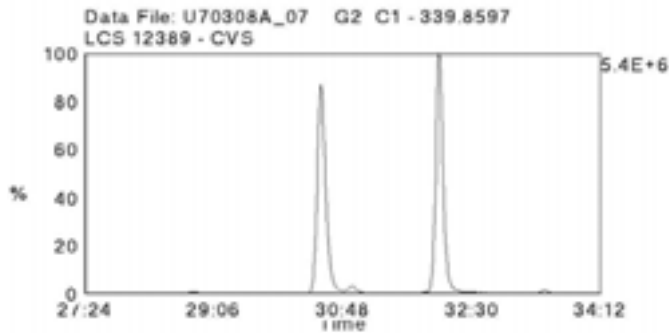
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Sample Description: LCS 12389 - CVS

Lab Sample ID: LCS-12389  
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Instrument: 10MSHR06 (U)



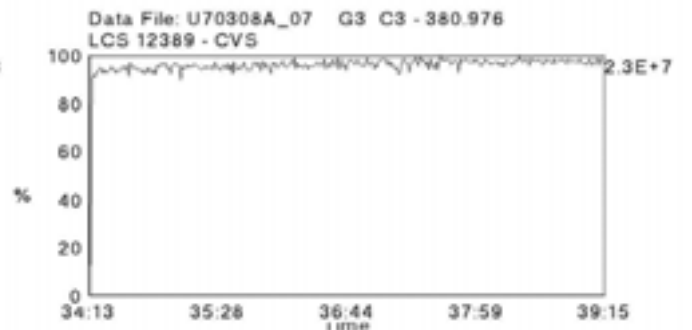
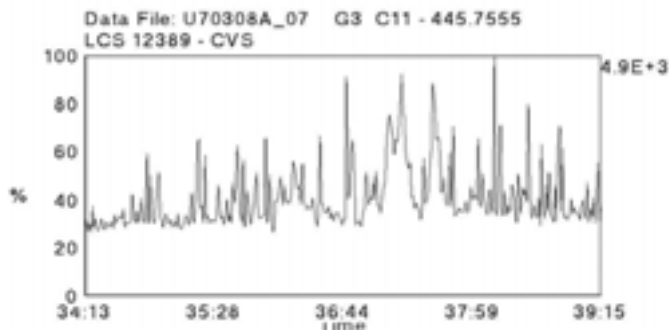
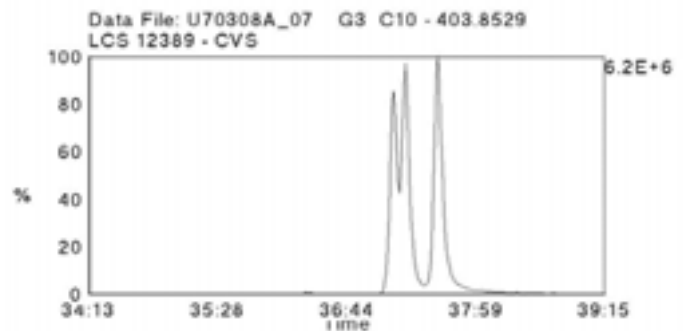
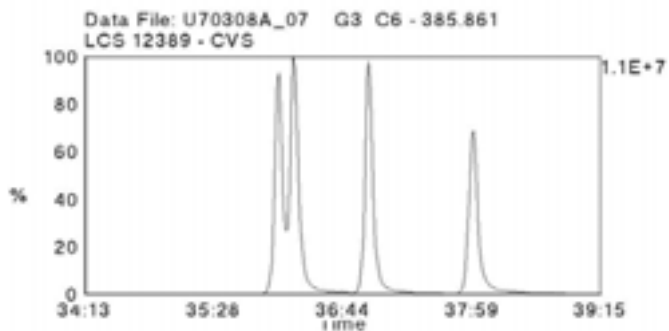
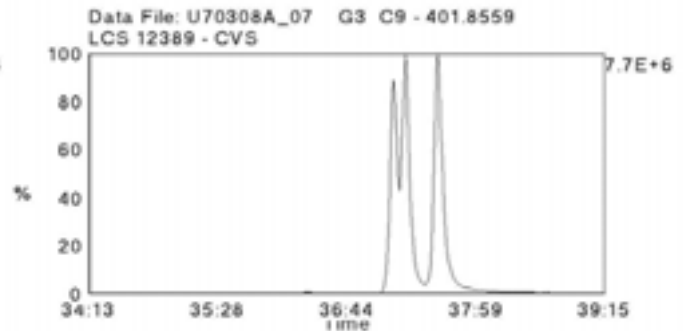
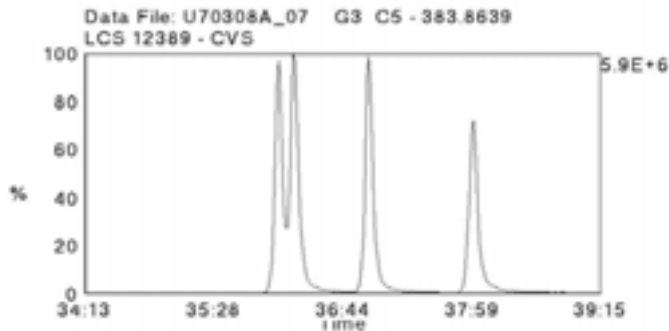
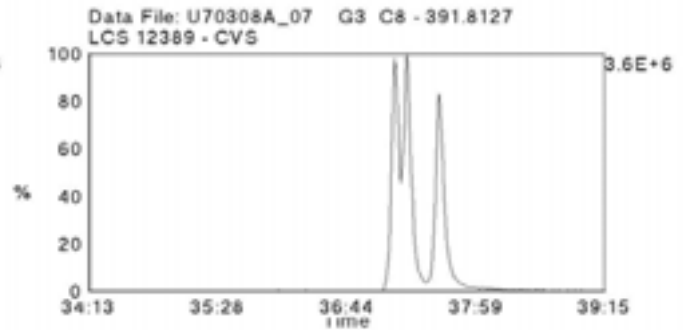
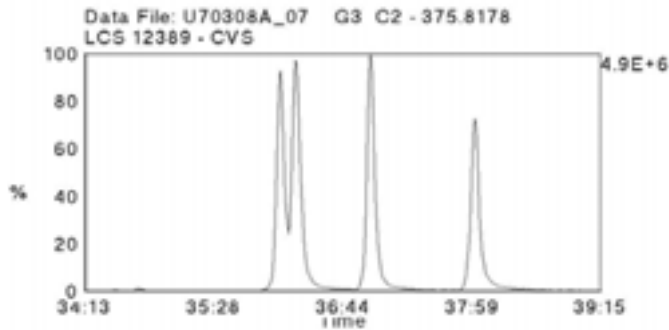
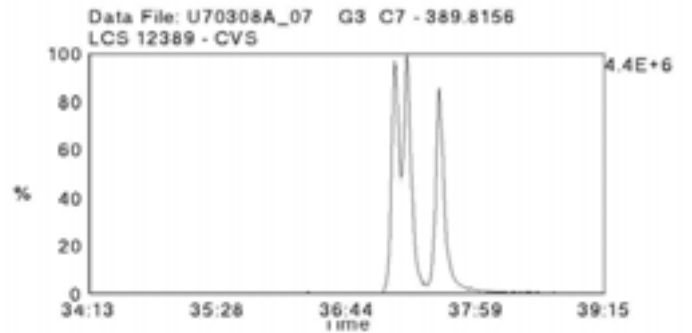
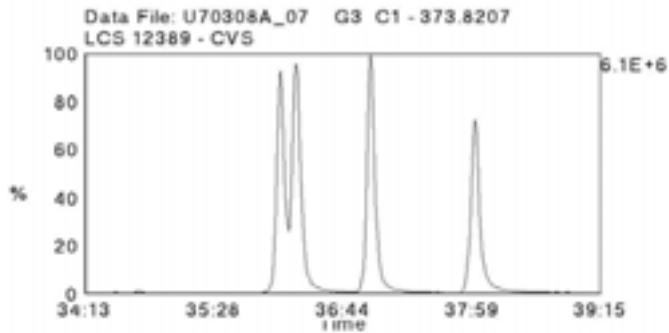
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Date Acquired: 3/8/2007  
Sample Description: LCS 12389 - CVS

Lab Sample ID: LCS-12389  
Client Sample ID: LCS-12389  
Instrument: 10MSHR06 (U)



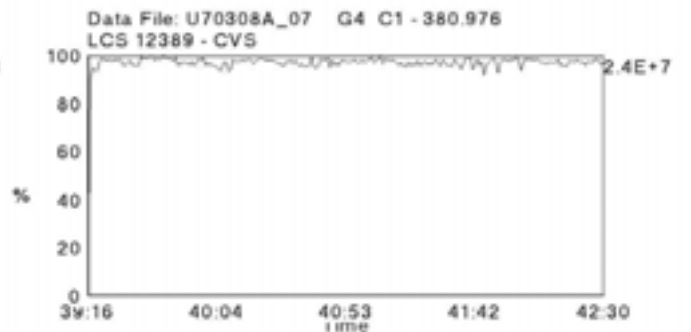
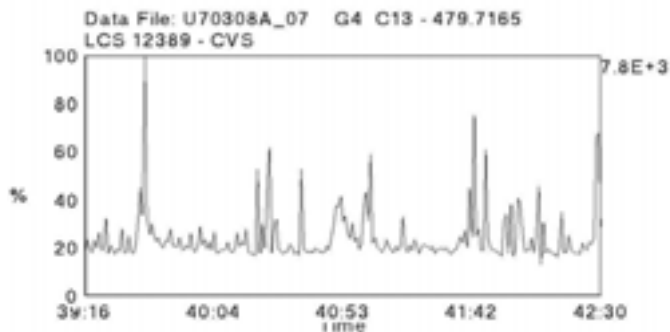
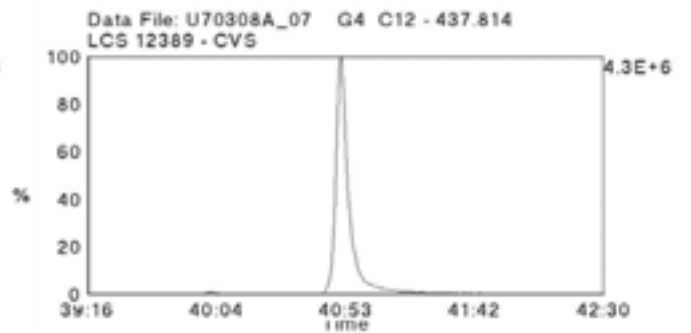
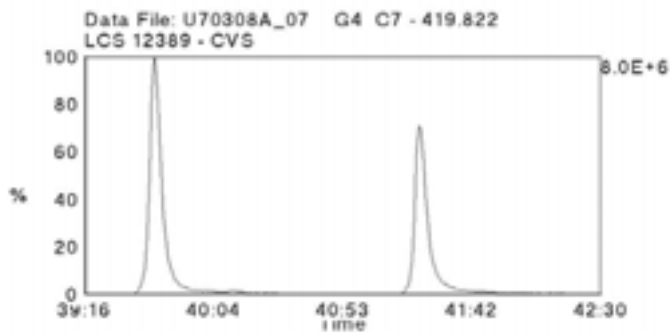
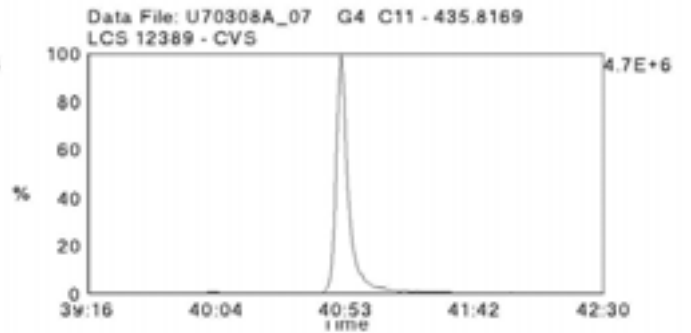
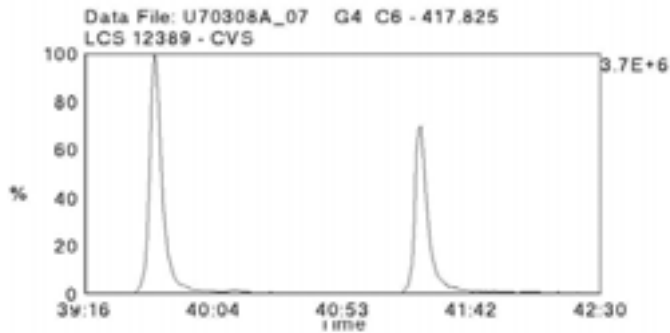
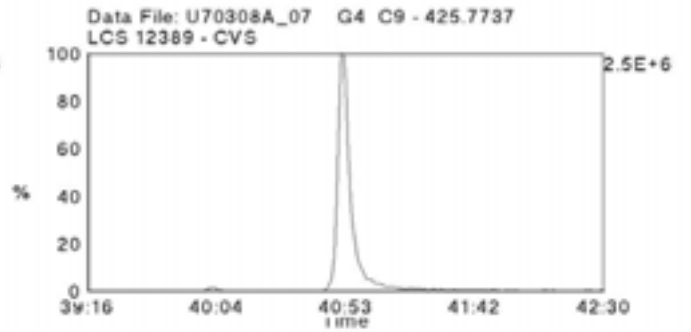
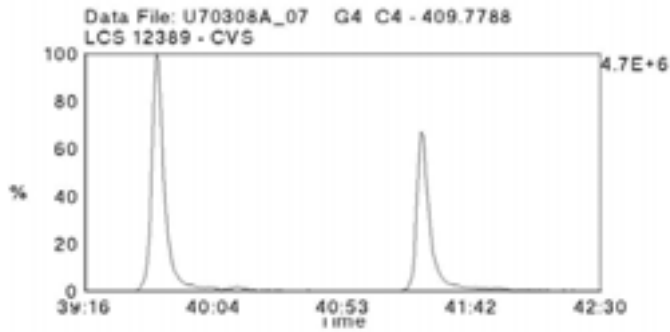
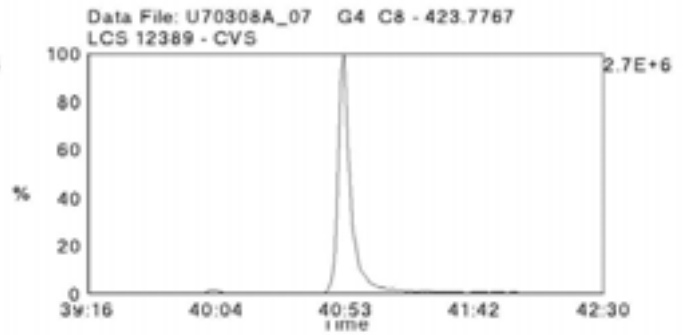
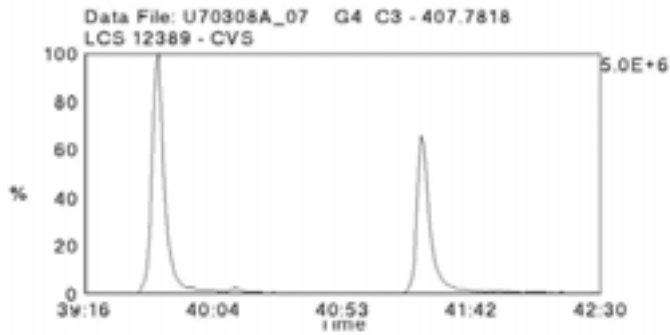
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Date Acquired: 3/8/2007  
Sample Description: LCS 12389 - CVS

Lab Sample ID: LCS-12389  
Client Sample ID: LCS-12389  
Instrument: 10MSHR06 (U)



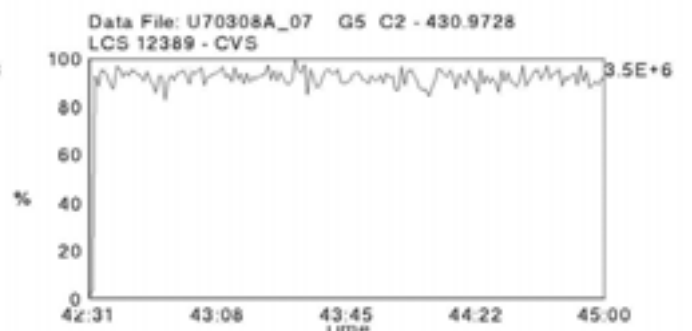
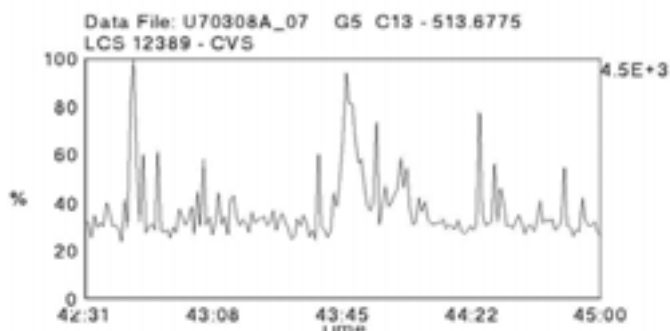
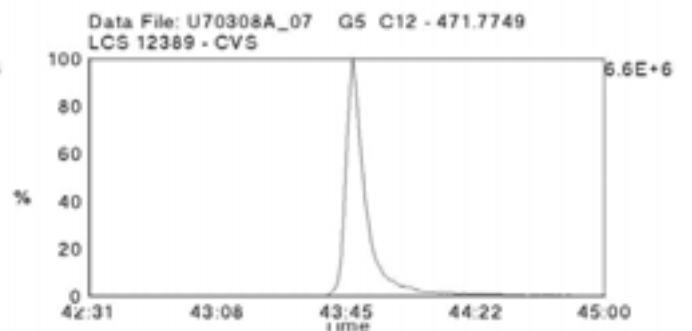
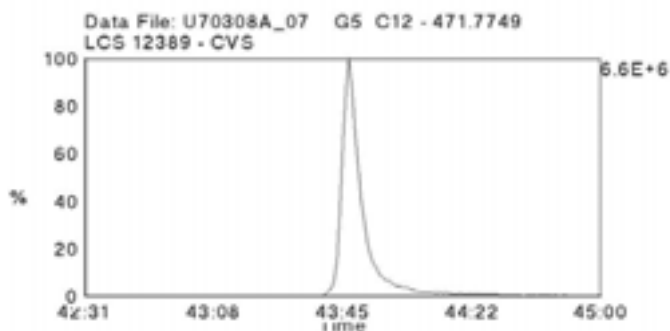
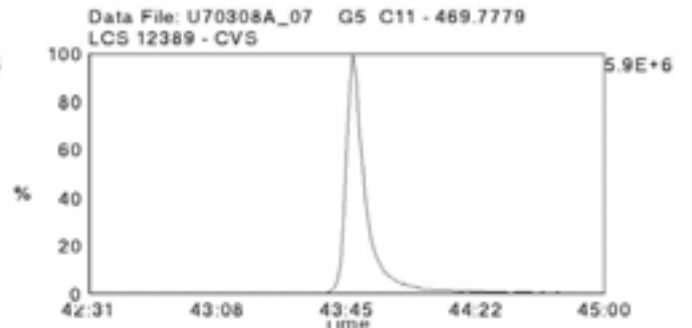
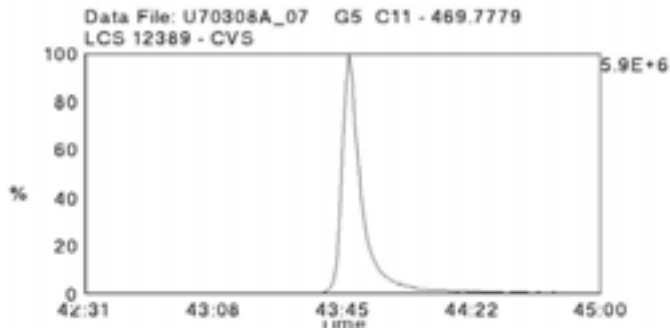
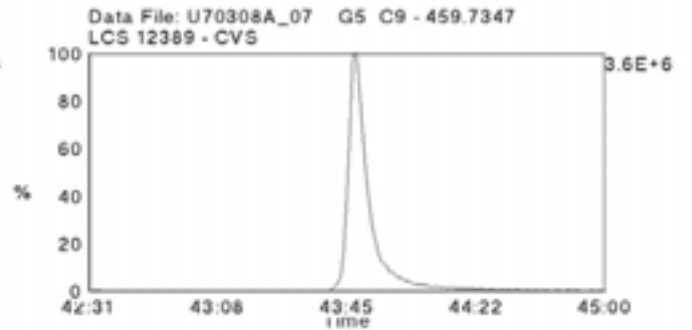
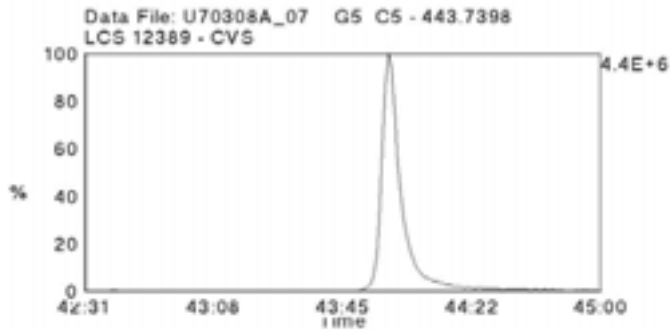
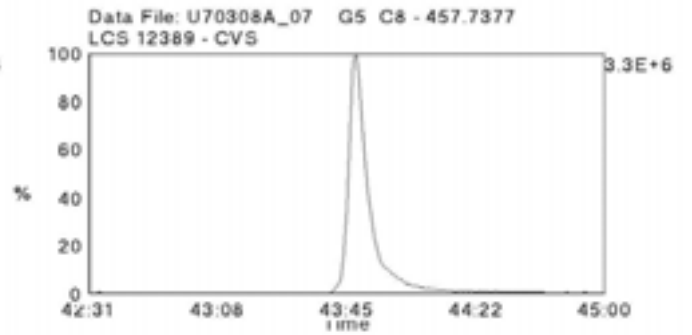
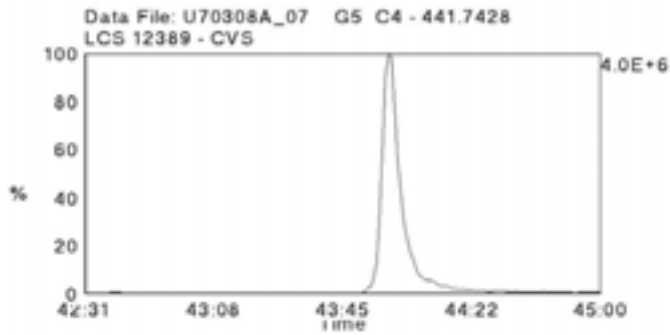
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Sample Description: LCS 12389 - CVS

Lab Sample ID: LCS-12389  
Client Sample ID: LCS-12389  
Instrument: 10MSHR06 (U)



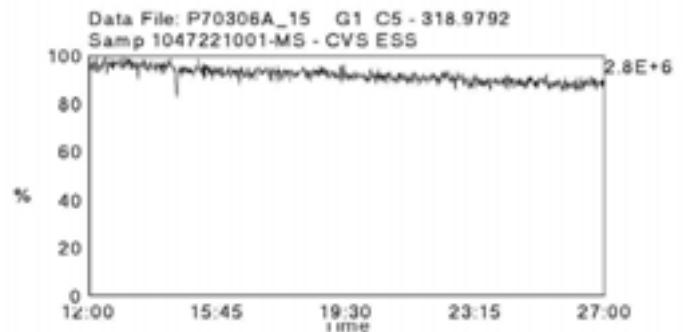
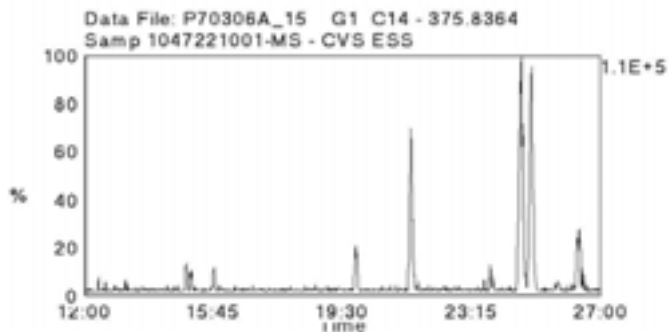
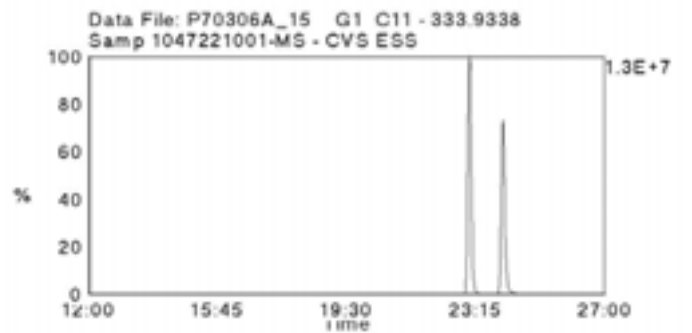
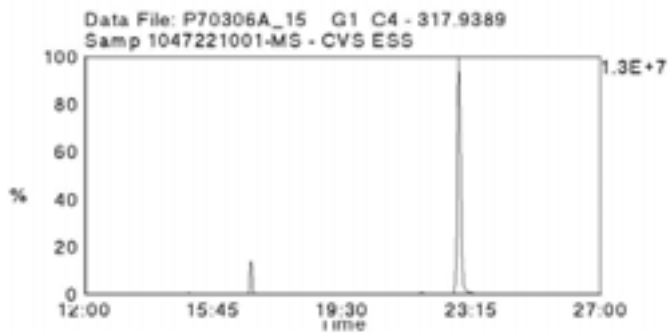
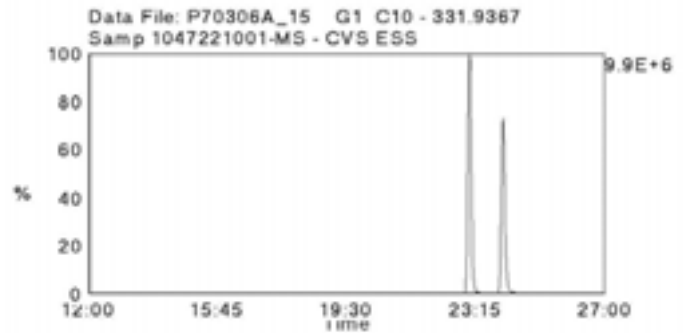
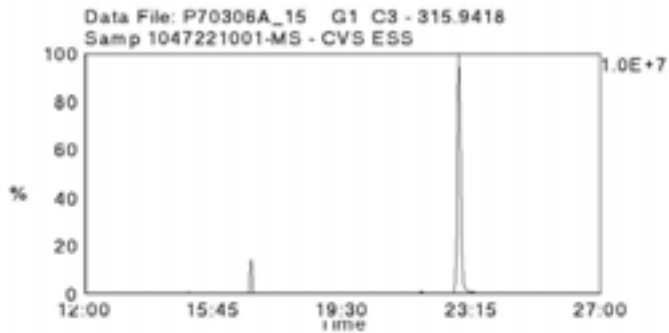
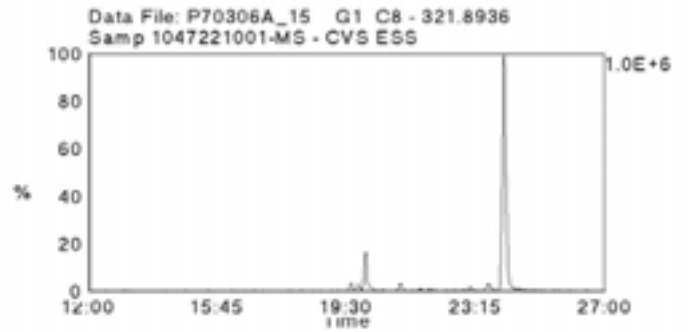
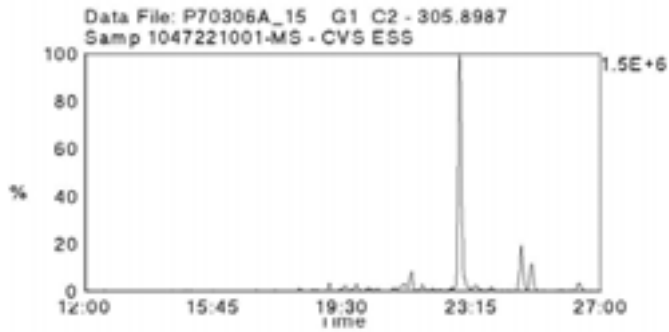
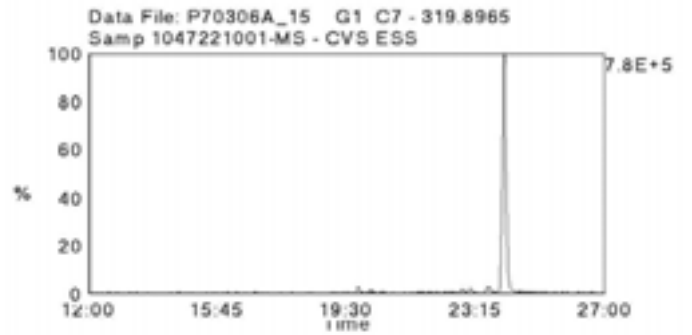
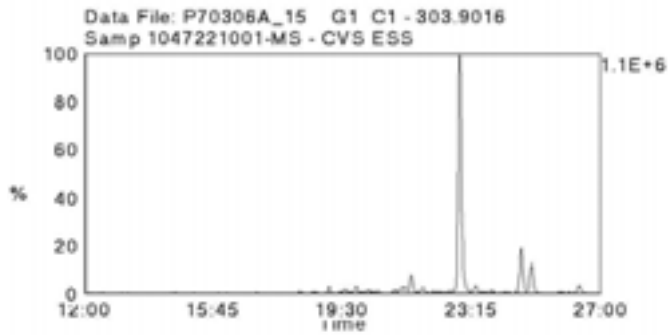
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Date Acquired: 3/8/2007  
Sample Description: LCS 12389 - CVS

Lab Sample ID: LCS-12389  
Client Sample ID: LCS-12389  
Instrument: 10MSHR06 (U)



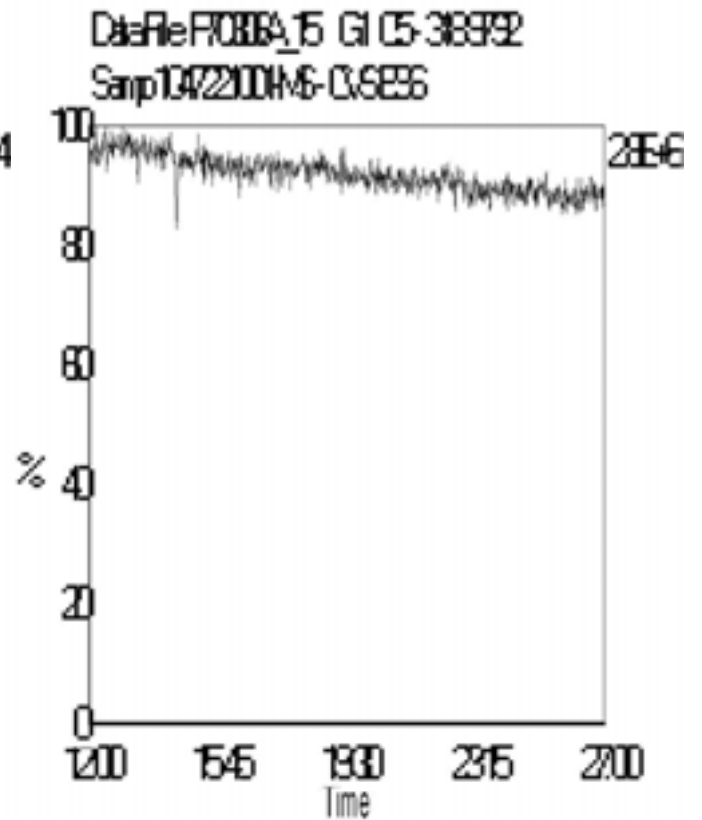
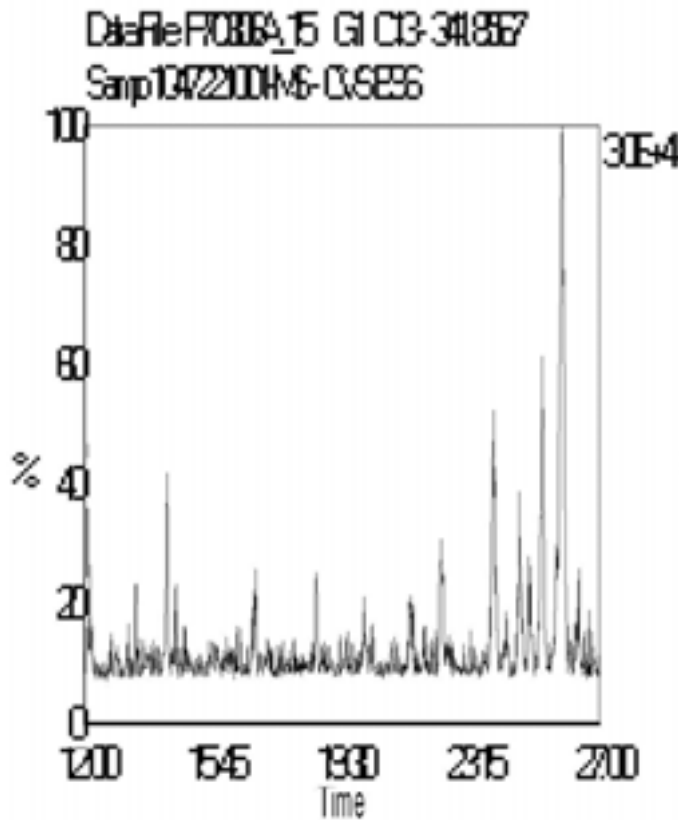
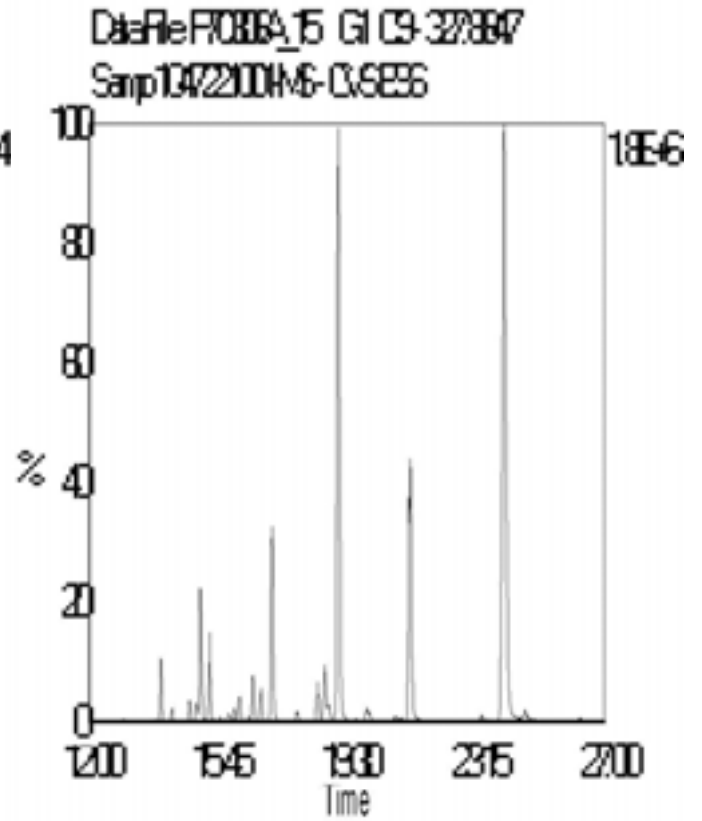
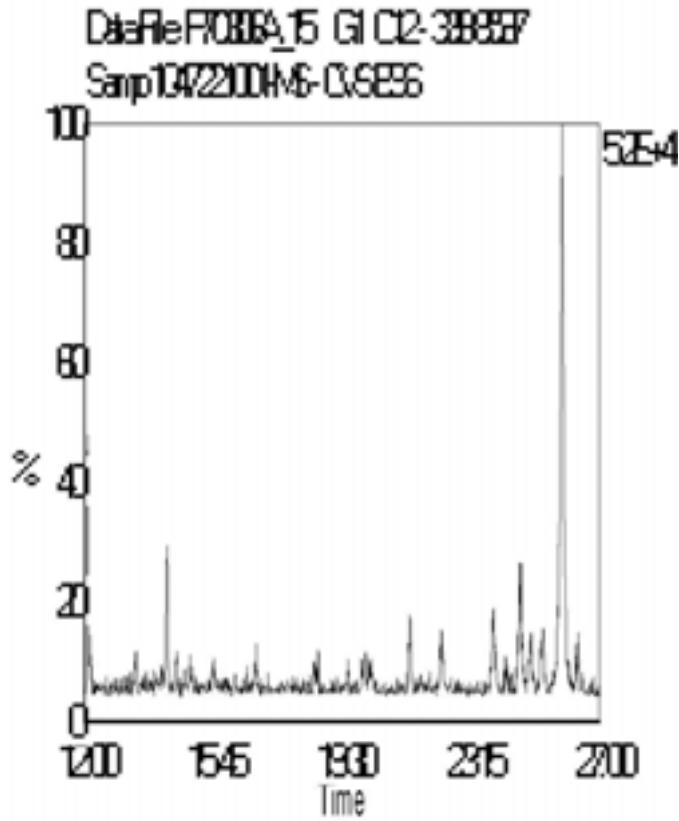
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Date Acquired: 3/7/2007  
Sample Description: Samp 1047221001-MS - CVS ESS

Lab Sample ID: 1047221001-MS  
Client Sample ID: 0702344-01-MS  
Instrument: 10MSHR09 (P)



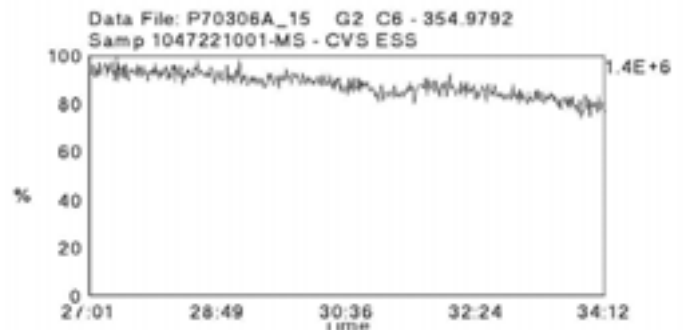
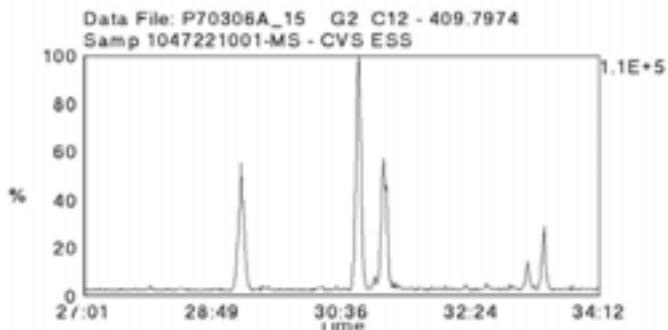
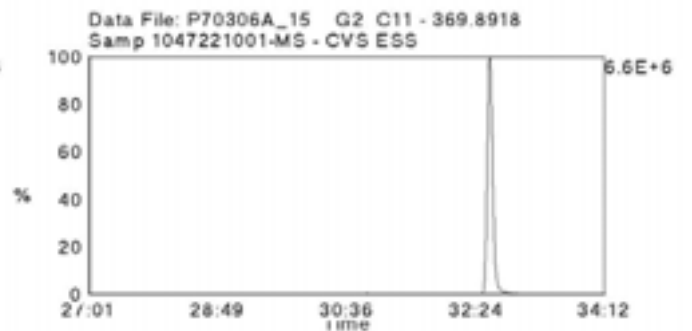
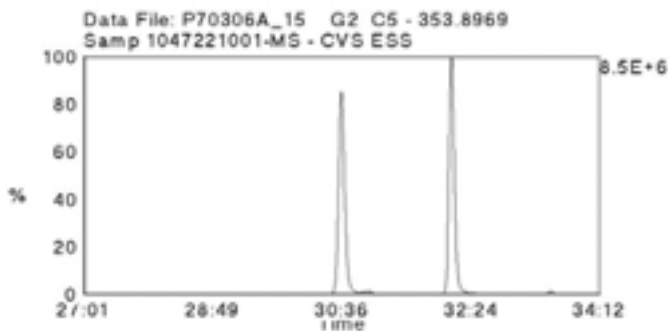
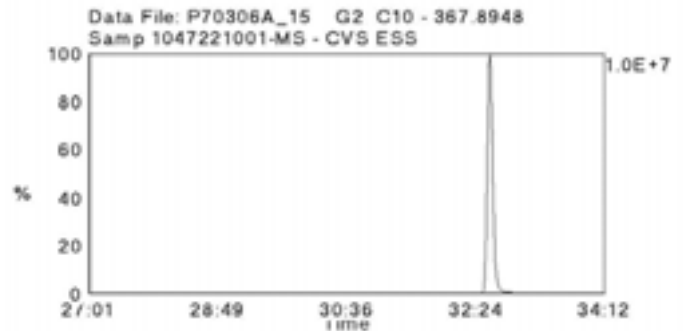
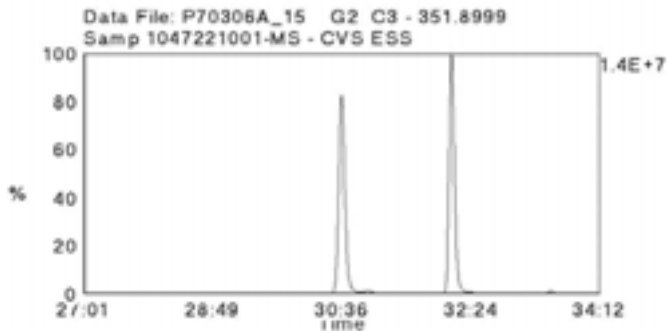
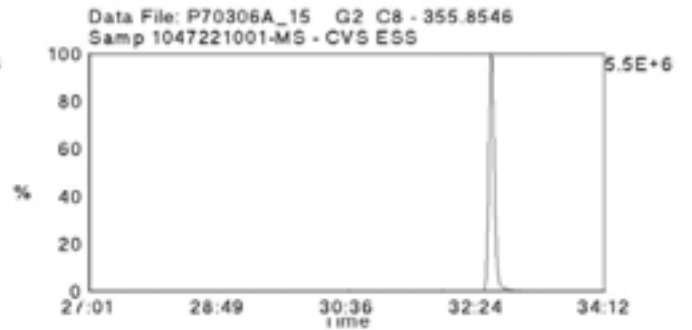
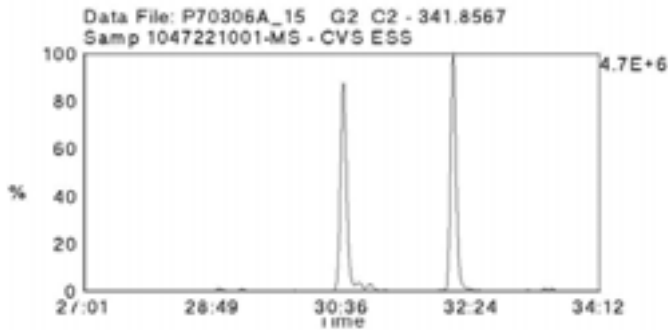
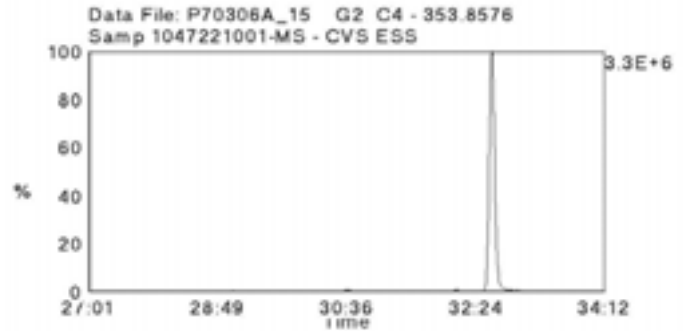
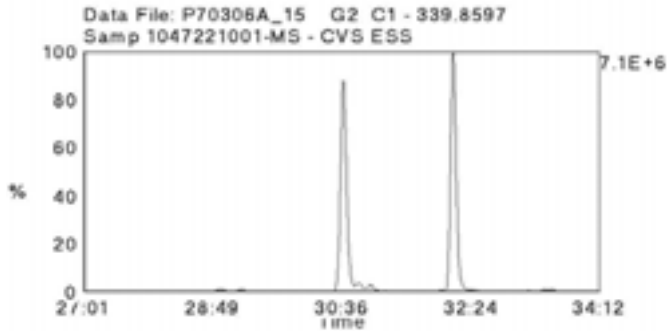
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Date Acquired: 3/7/2007  
Sample Description: Samp 1047221001-MS - CVS ESS

Lab Sample ID: 1047221001-MS  
Client Sample ID: 0702344-01-MS  
Instrument: 10MSHR09 (P)



Data File Name: P70306A\_15  
Date Acquired: 3/7/2007  
Sample Description: Samp 1047221001-MS - CVS ESS

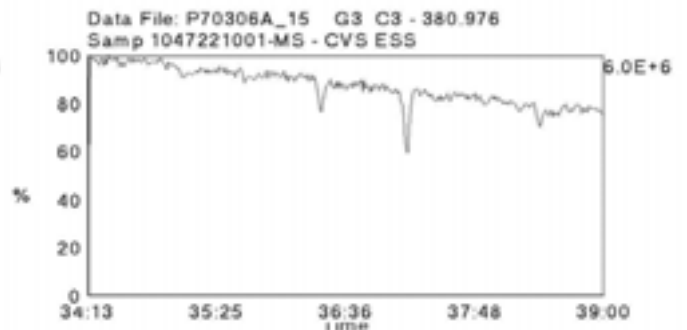
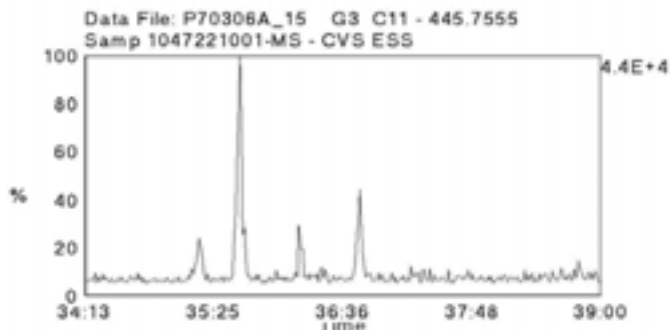
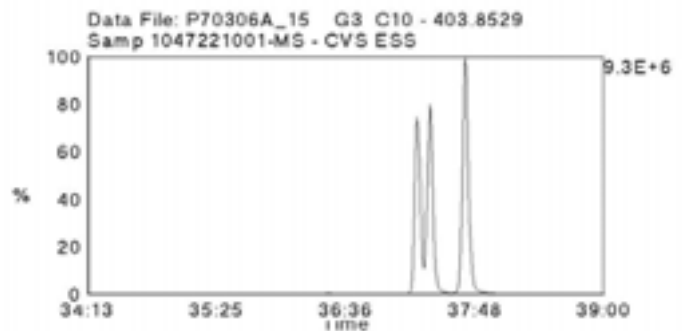
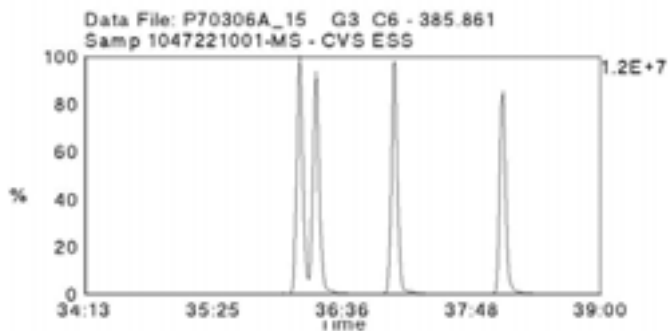
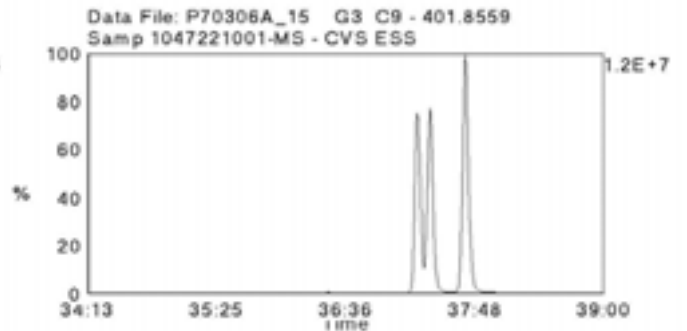
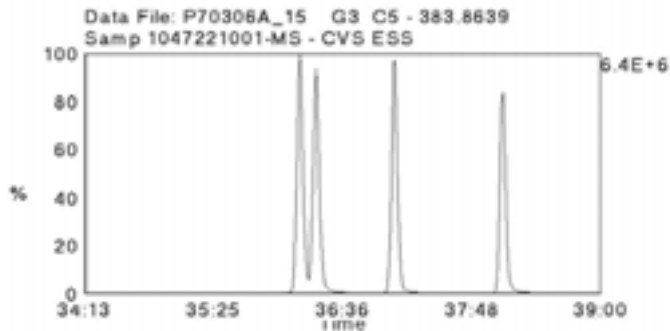
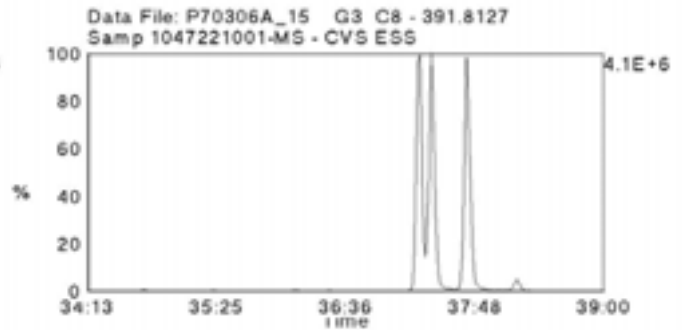
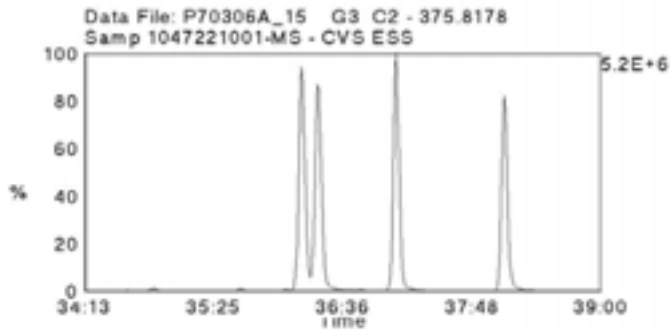
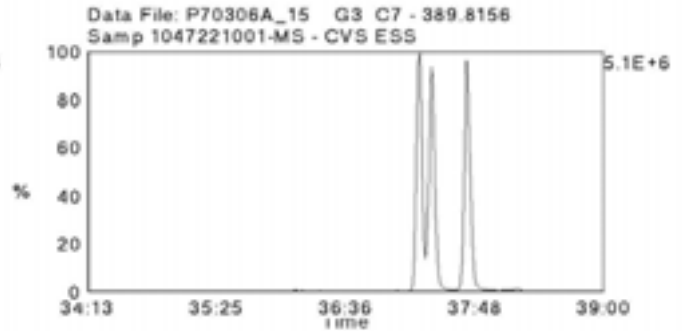
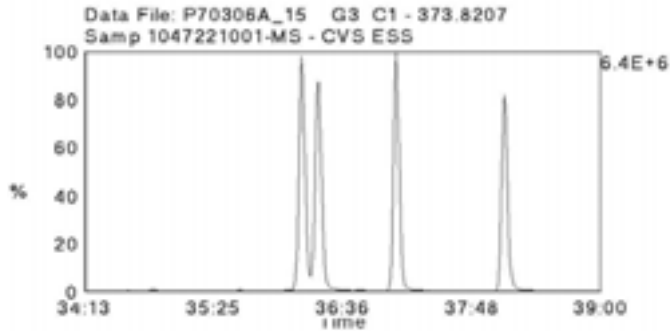
Lab Sample ID: 1047221001-MS  
Client Sample ID: 0702344-01-MS  
Instrument: 10MSHR09 (P)





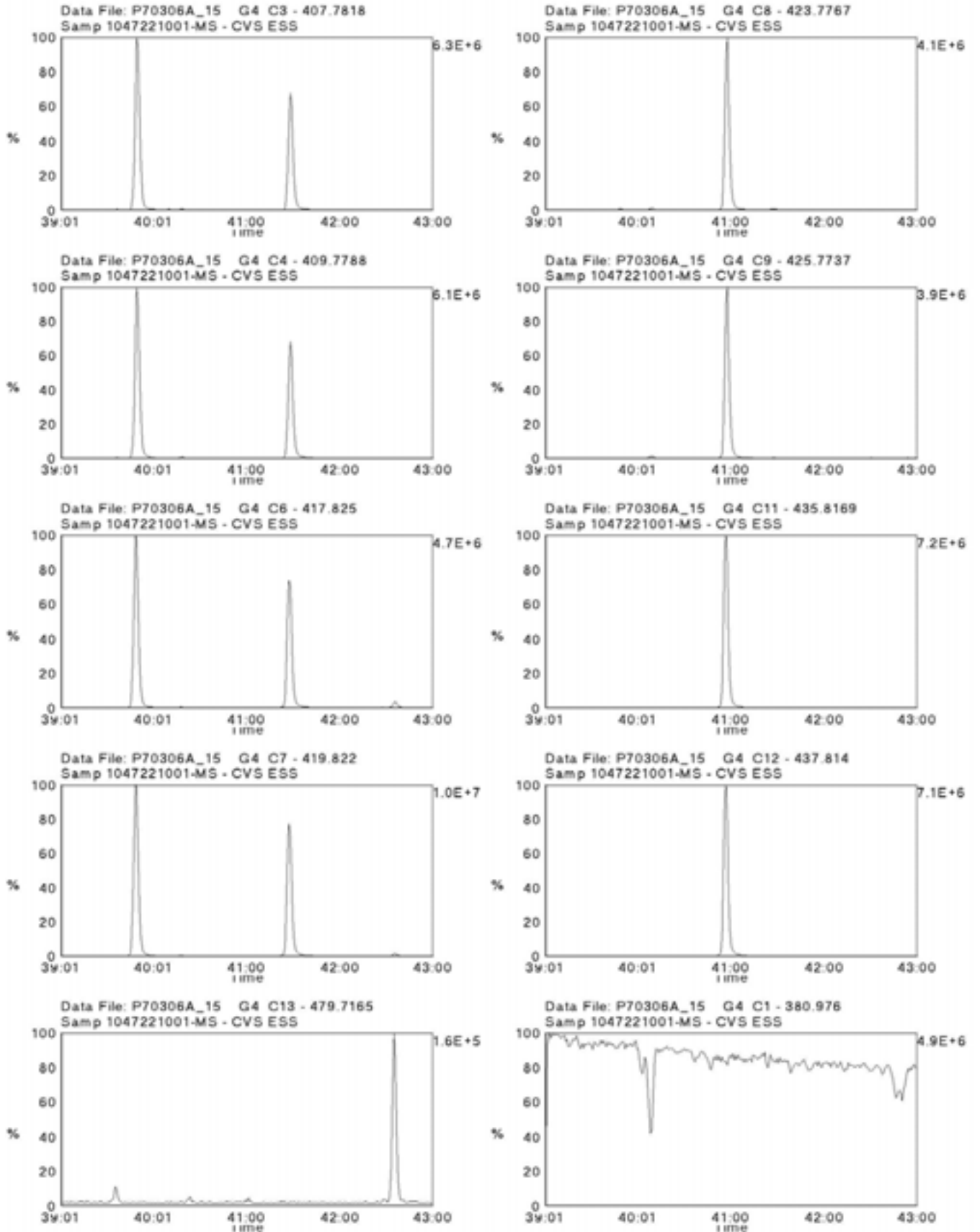
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Date Acquired: 3/7/2007  
Sample Description: Samp 1047221001-MS - CVS ESS

Lab Sample ID: 1047221001-MS  
Client Sample ID: 0702344-01-MS  
Instrument: 10MSHR09 (P)



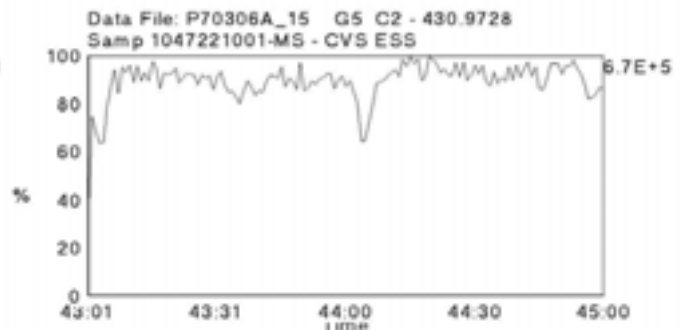
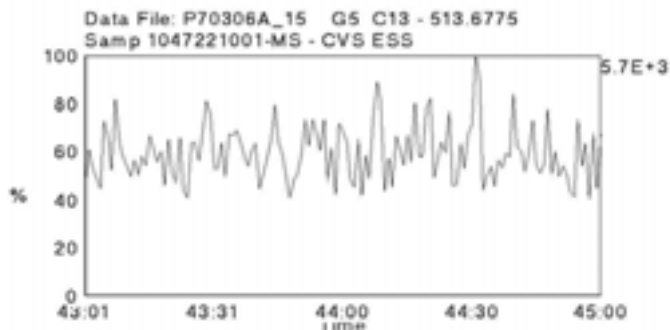
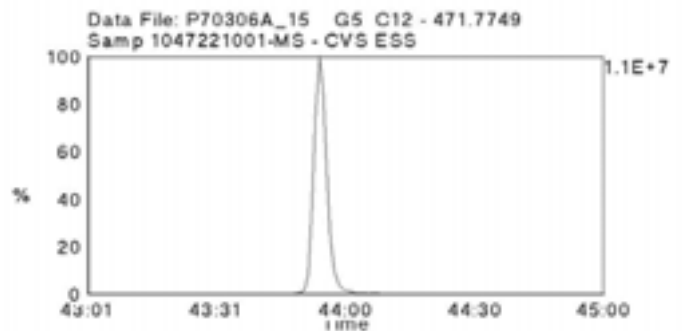
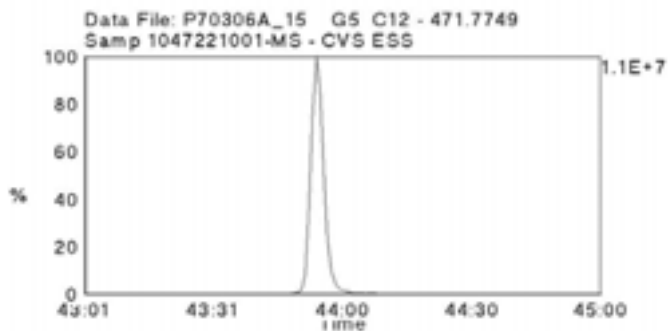
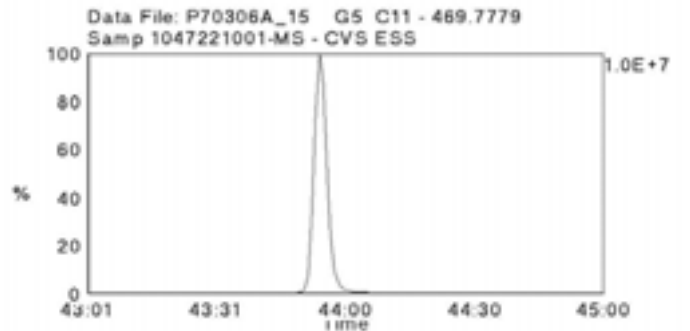
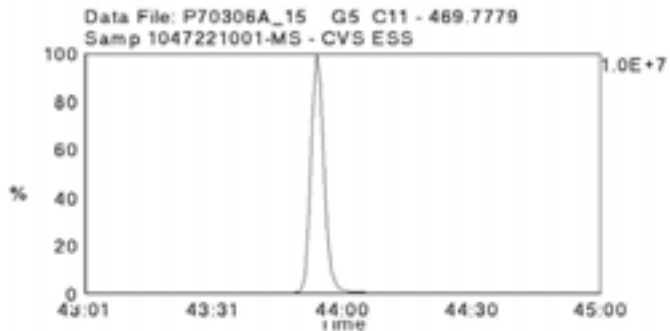
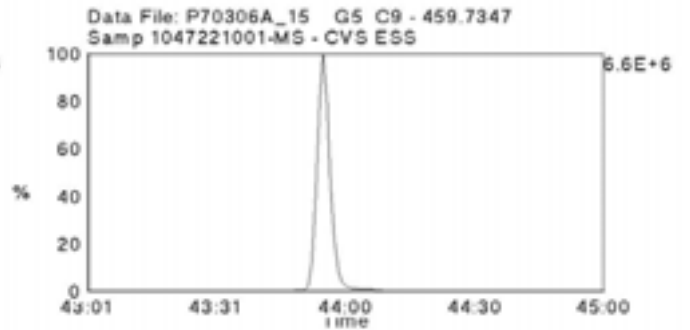
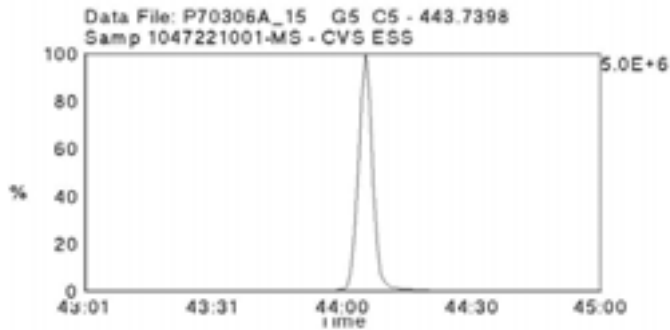
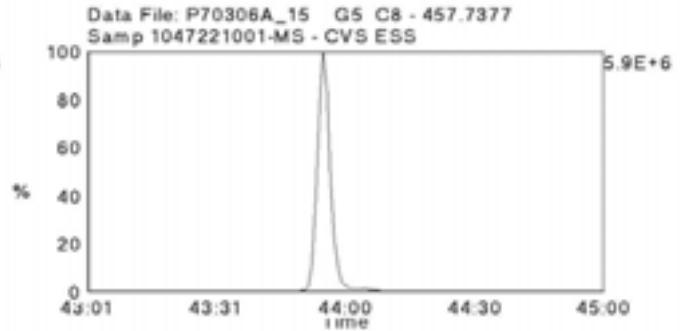
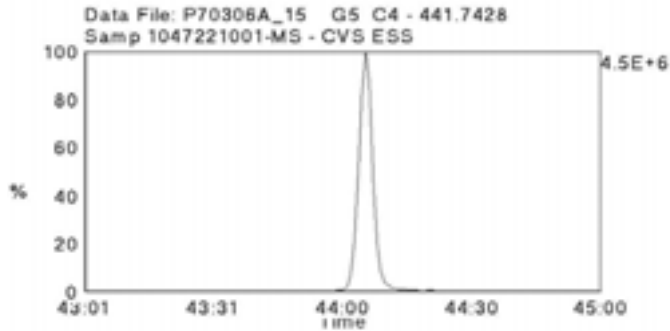
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Date Acquired: 3/7/2007  
Sample Description: Samp 1047221001-MS - CVS ESS

Lab Sample ID: 1047221001-MS  
Client Sample ID: 0702344-01-MS  
Instrument: 10MSHR09 (P)



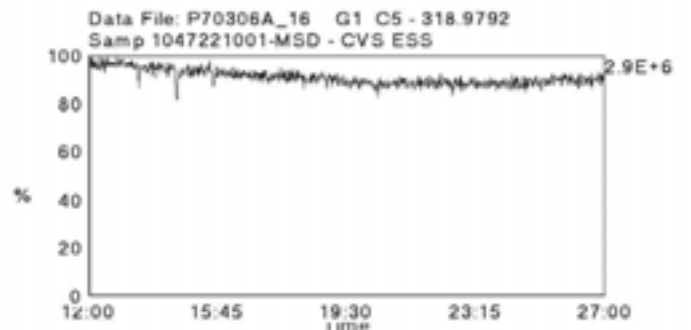
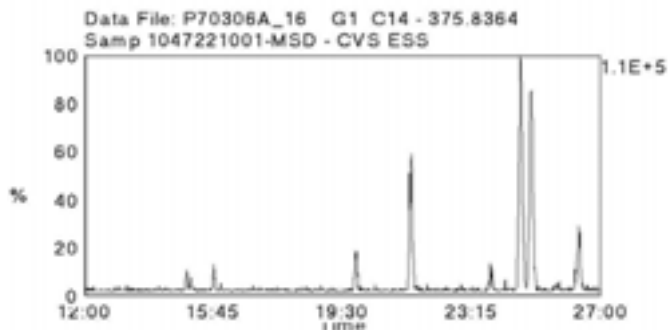
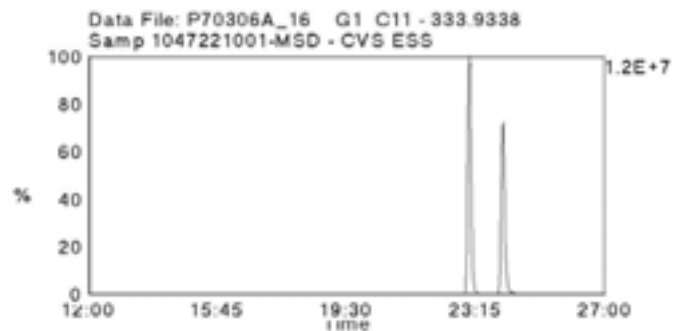
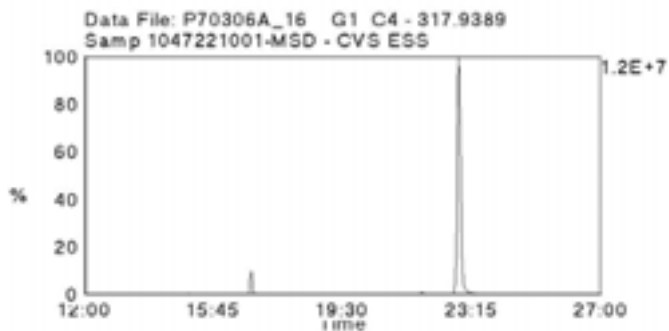
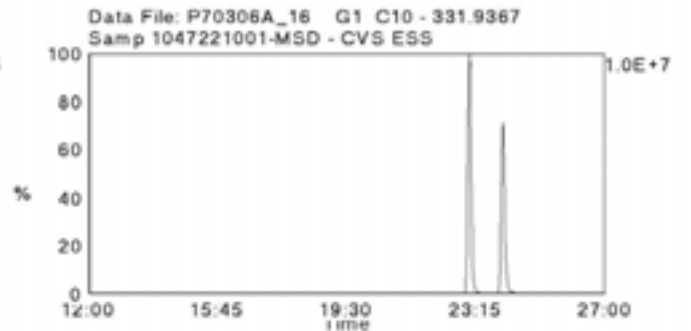
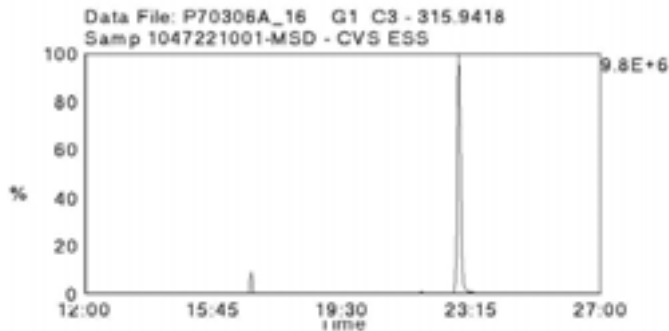
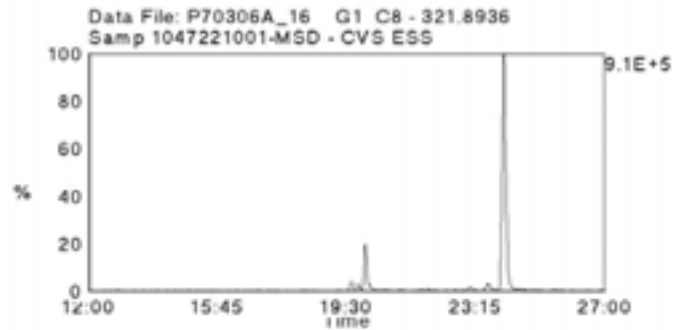
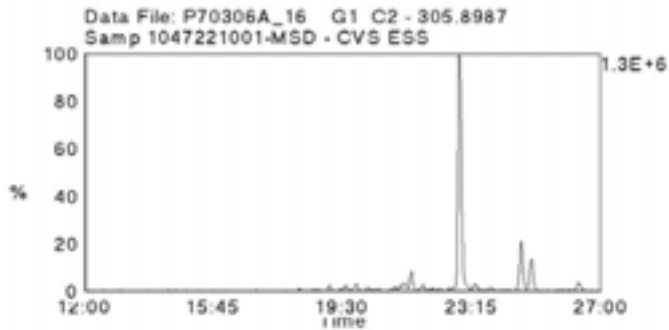
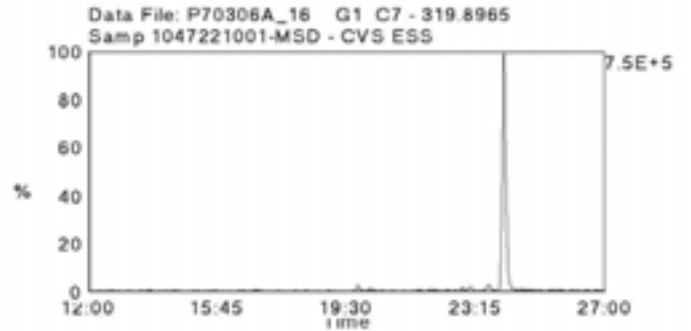
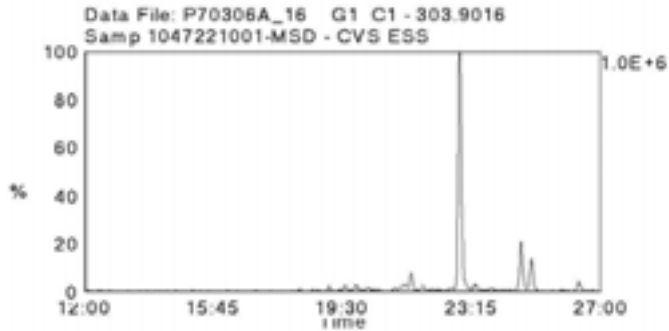
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Date Acquired: 3/7/2007  
Sample Description: Samp 1047221001-MS - CVS ESS

Lab Sample ID: 1047221001-MS  
Client Sample ID: 0702344-01-MS  
Instrument: 10MSHR09 (P)



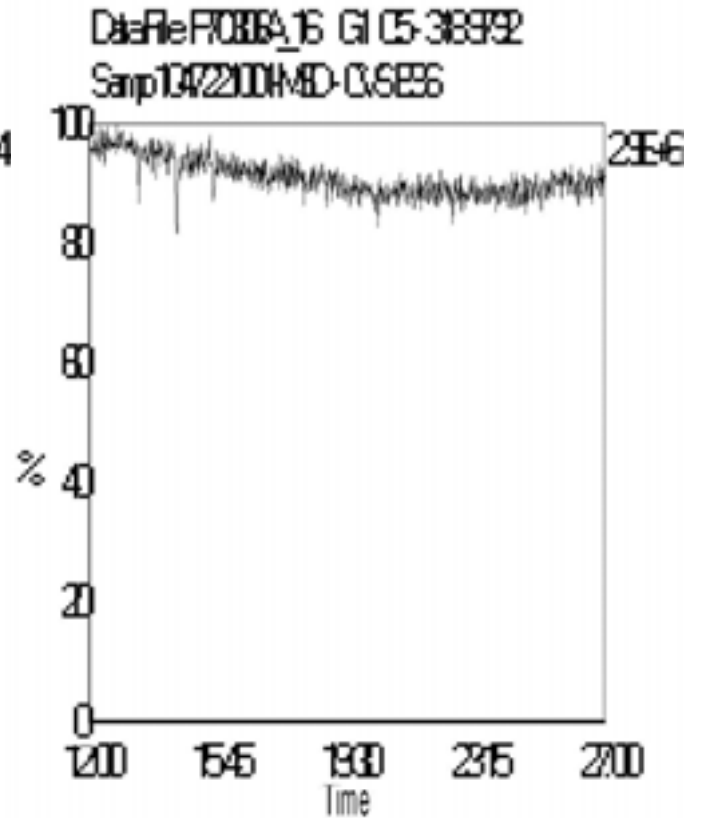
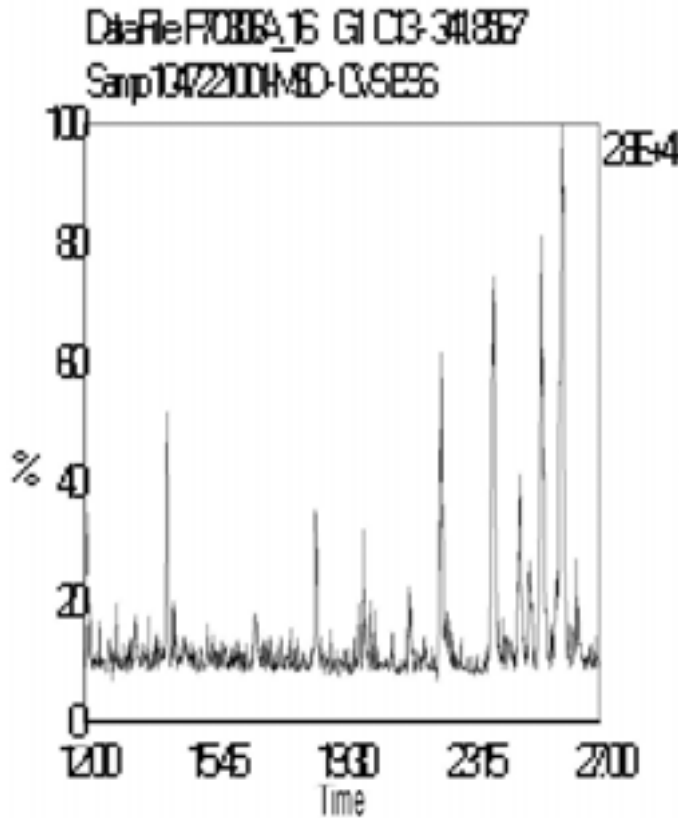
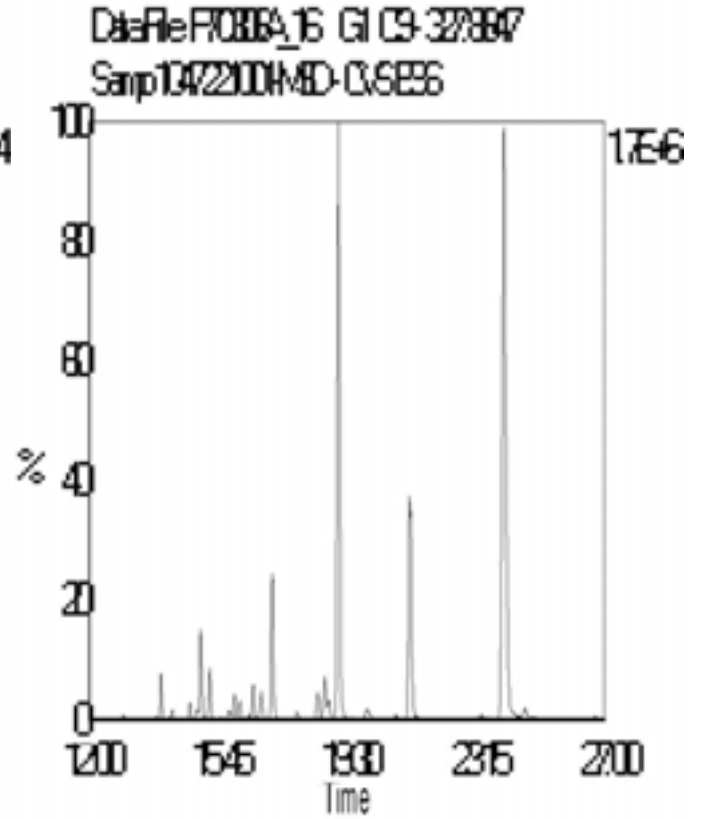
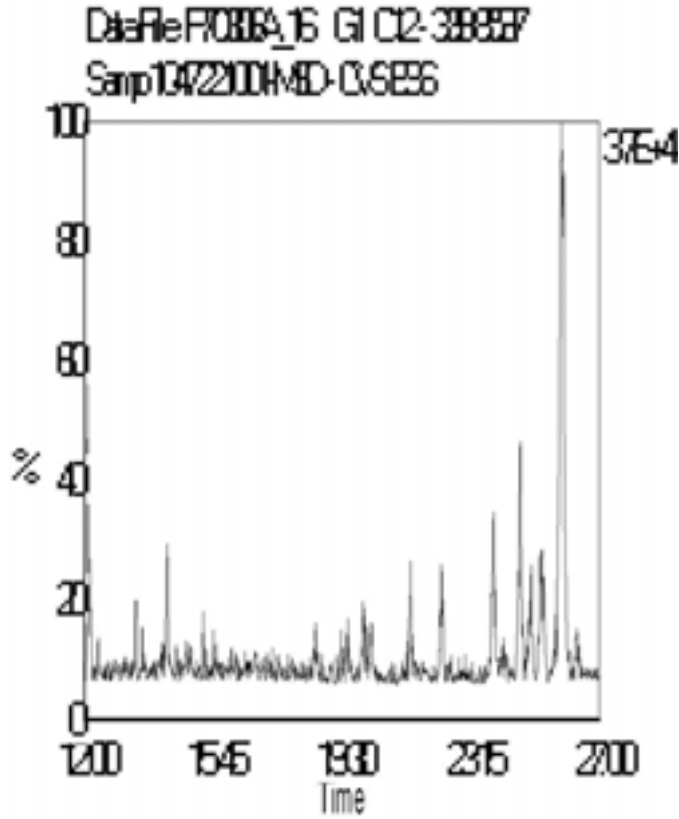
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Date Acquired: 3/7/2007  
Sample Description: Samp 1047221001-MSD - CVS ESS

Lab Sample ID: 1047221001-MSD  
Client Sample ID: 0702344-01-MSD  
Instrument: 10MSHR09 (P)



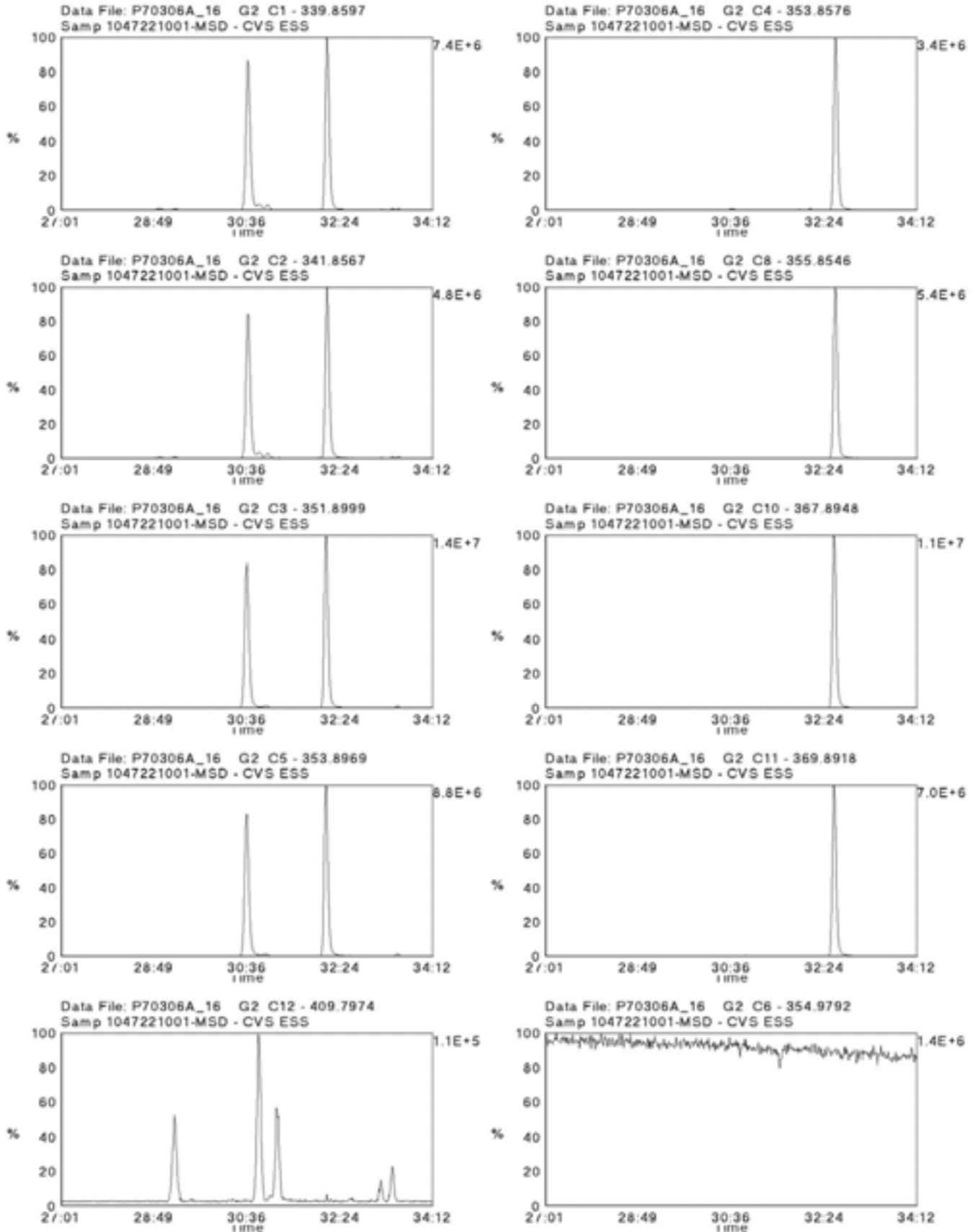
Data File Name: P70306A\_16  
Date Acquired: 3/7/2007  
Sample Description: Samp 1047221001-MSD - CVS ESS

Lab Sample ID: 1047221001-MSD  
Client Sample ID: 0702344-01-MSD  
Instrument: 10MSHR09 (P)



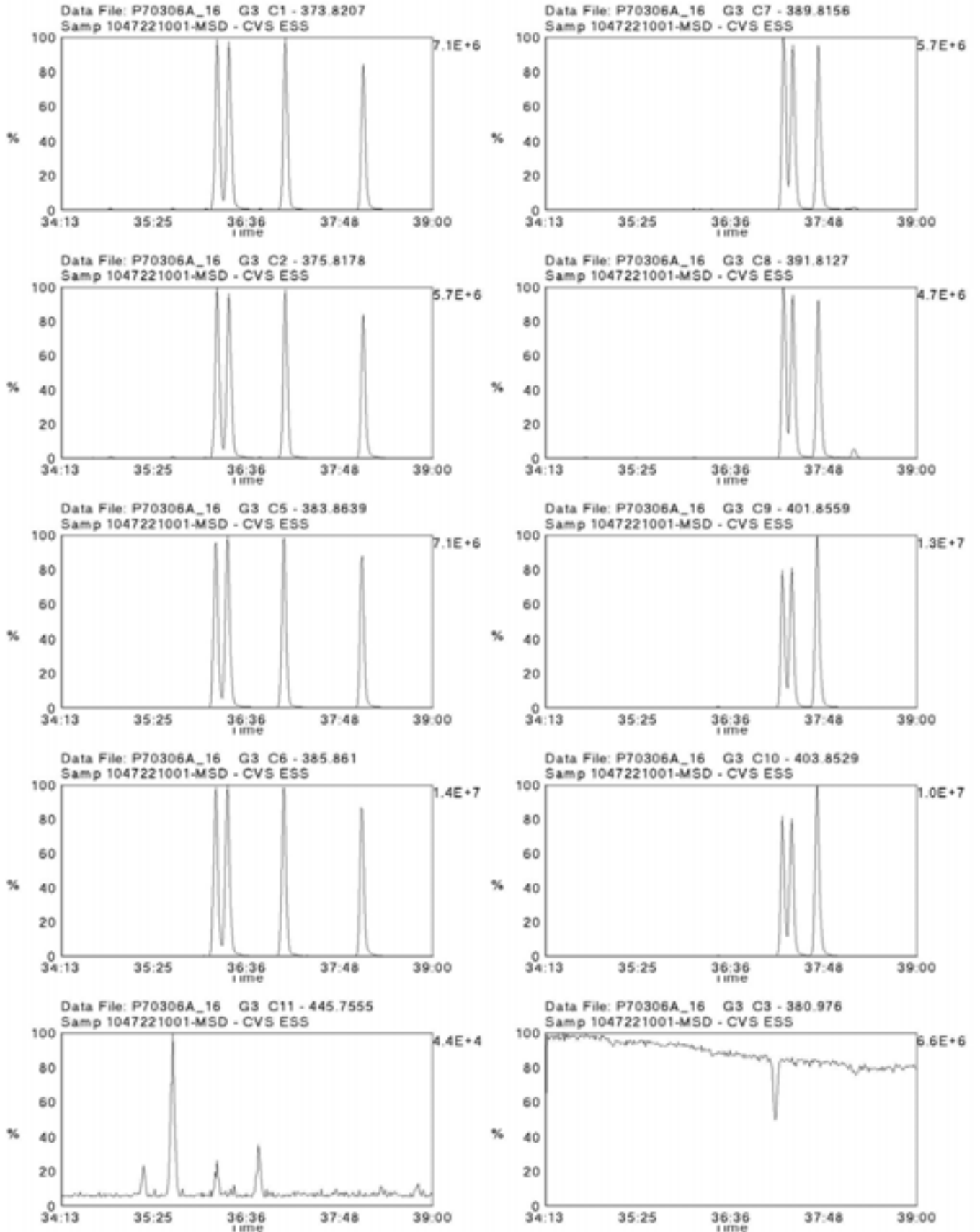
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Sample Description: Samp 1047221001-MSD - CVS ESS

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Client Sample ID: 0702344-01-MSD  
Instrument: 10MSHR09 (P)



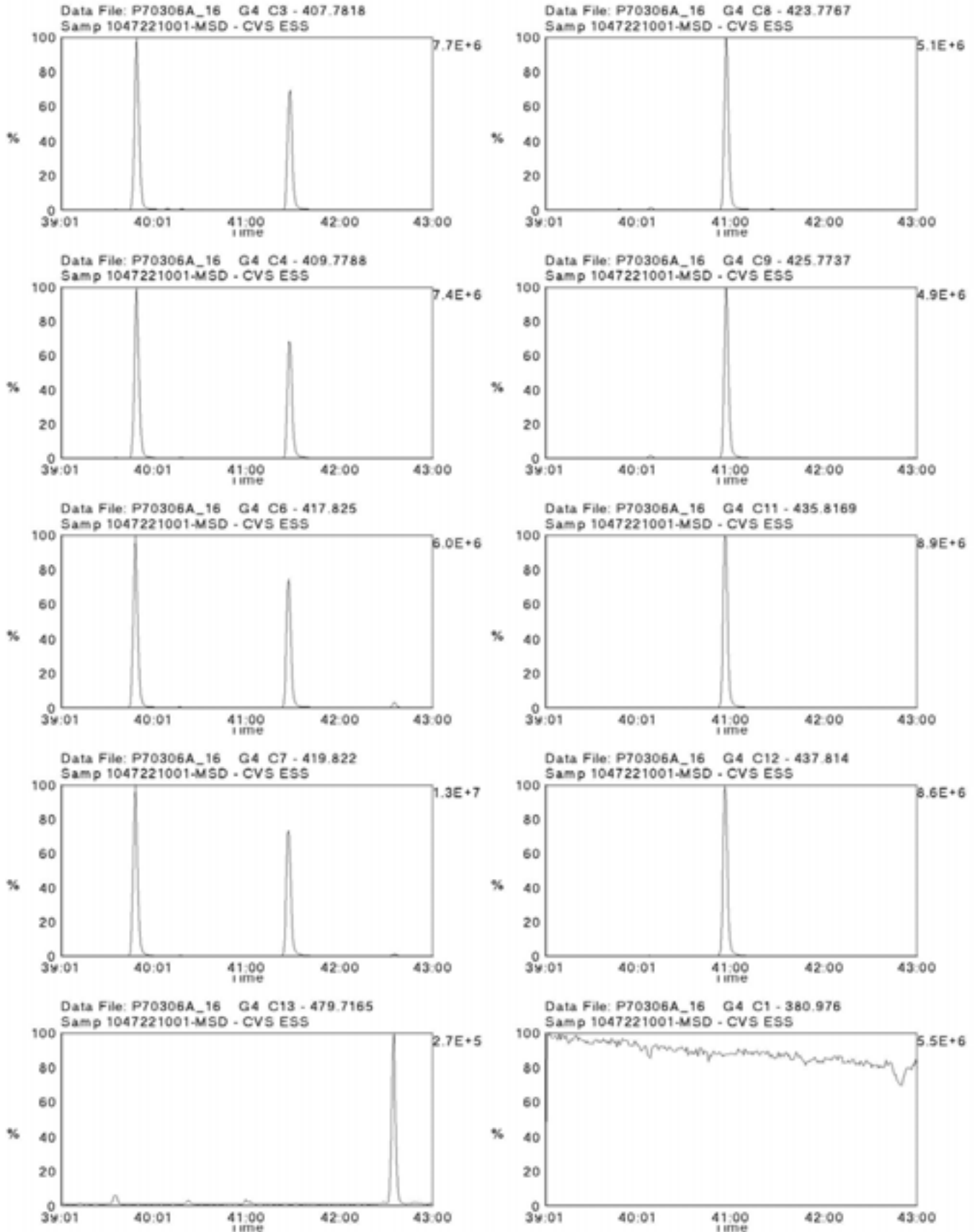
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Sample Description: Samp 1047221001-MSD - CVS ESS

Lab Sample ID: 1047221001-MSD  
Client Sample ID: 0702344-01-MSD  
Instrument: 10MSHR09 (P)



Data File Name: P70306A\_16  
Date Acquired: 3/7/2007  
Sample Description: Samp 1047221001-MSD - CVS ESS

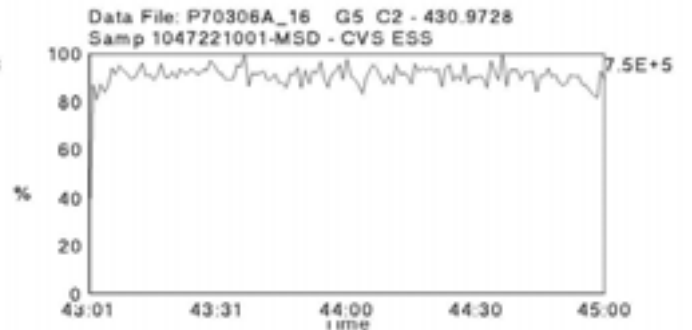
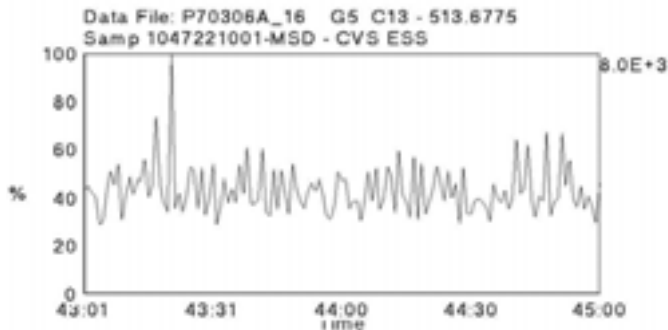
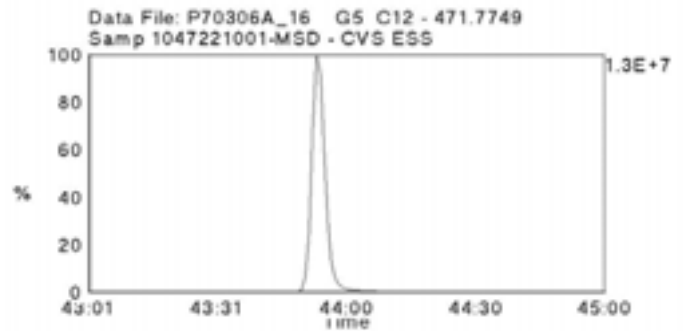
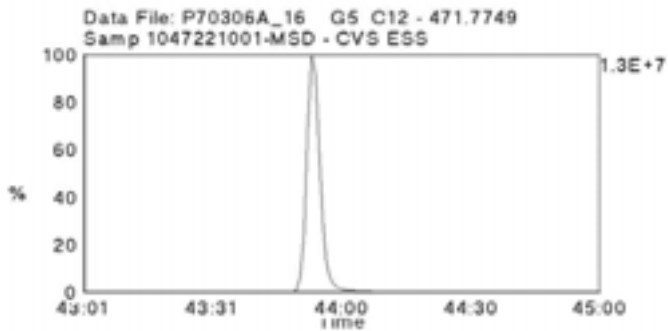
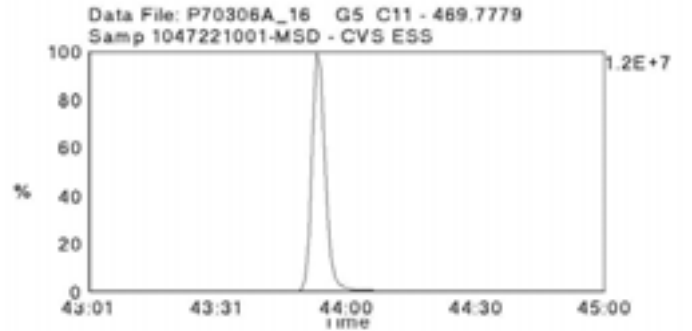
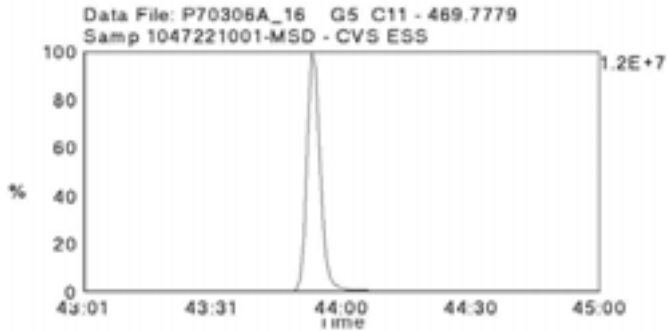
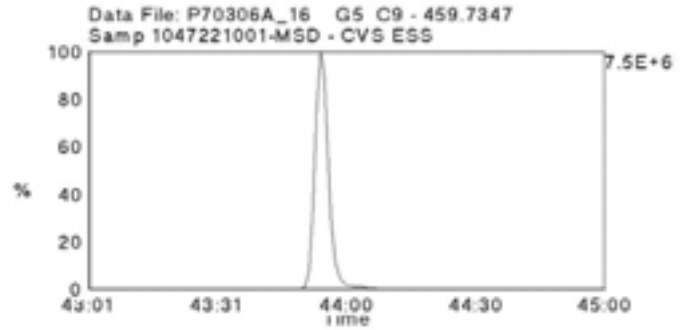
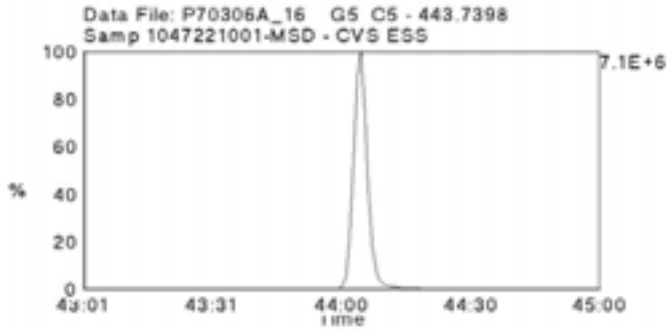
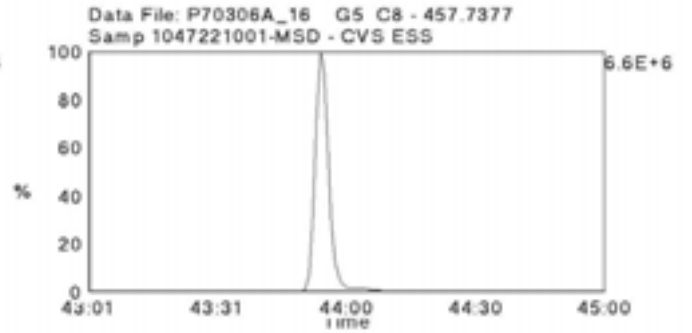
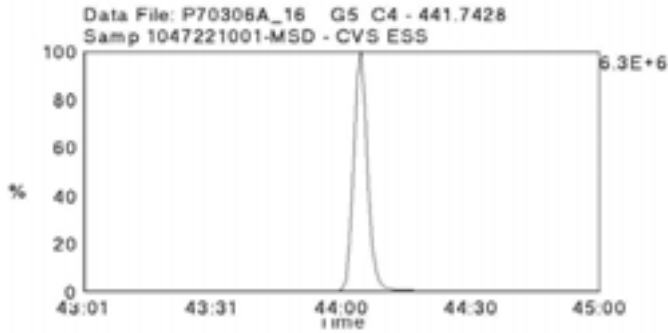
Lab Sample ID: 1047221001-MSD  
Client Sample ID: 0702344-01-MSD  
Instrument: 10MSHR09 (P)





Data File Name: P70306A\_16  
Date Acquired: 3/7/2007  
Sample Description: Samp 1047221001-MSD - CVS ESS

Lab Sample ID: 1047221001-MSD  
Client Sample ID: 0702344-01-MSD  
Instrument: 10MSHR09 (P)





### PCDD/PCDF Detected Peak List

Prepared By \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client ID		Injected By	CVS
Lab ID	BLANK-12388	Instrument ID	10MSHR09 (P)
Filename	P70307A_05	GC Column ID	US5455214H
Analyzed	03/07/2007 17:18	ICAL Date	02/28/2007

Page 1

Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:52	9.93e7	1.26e8	1.24e7	1.55e7	3.232e3	3.368e3	0.79	
2,3,7,8-TCDF	22:56	5.00e4	6.80e4	6.53e3	9.14e3	1.297e3	1.884e3	0.73	
Other TCDF	1 23:23	3.29e4	3.80e4					0.87	
	2 21:19	4.08e4	4.65e4					0.88	
Ethers	1 24:59	2.19e4	2.62e4					0.83	E

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	23:04	8.17e7	1.02e8	1.04e7	1.32e7	5.071e3	2.611e3	0.80	
2,3,7,8-TCDD-13C	24:03	7.22e7	9.13e7	8.62e6	1.10e7	6.552e3	8.823e3	0.79	
2,3,7,8-TCDD-37Cl4	24:04	1.82e7		2.18e6		1.079e3	----		
2,3,7,8-TCDD	24:04	ND	ND	ND	ND	1.038e3	1.140e3		

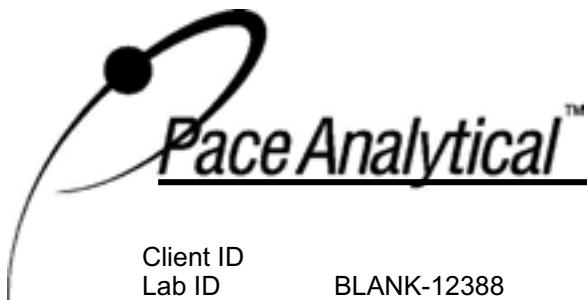
Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	30:36	9.62e7	6.12e7	1.35e7	8.67e6	6.800e4	3.863e4	1.57	
2,3,4,7,8-PeCDF-13C	32:09	9.76e7	6.19e7	1.50e7	9.56e6	7.153e3	3.278e3	1.58	
1,2,3,7,8-PeCDF	30:37	3.09e4	1.73e4	4.57e3	2.02e3	1.377e3	8.358e2	1.78	
2,3,4,7,8-PeCDF	32:10	3.96e4	2.77e4	9.06e3	4.83e3	8.989e2	8.358e2	1.43	
Other PeCDF	1 29:57	2.48e4	1.82e4					1.36	
	2 28:54	3.95e4	2.76e4					1.43	
	3 28:37	2.99e4	1.77e4					1.69	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:36	7.48e7	4.71e7	1.23e7	7.81e6	4.915e3	3.670e3	1.59	
1,2,3,7,8-PeCDD	32:37	ND	ND	ND	ND	1.137e3	1.313e3		

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:13	3.53e7	6.76e7	7.04e6	1.36e7	3.718e4	7.233e4	0.52	
1,2,3,6,7,8-HxCDF-13C	36:23	3.72e7	7.16e7	7.11e6	1.39e7	3.718e4	9.131e3	0.52	

## REPORT OF LABORATORY ANALYSIS

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Client ID		Injected By	CVS
Lab ID	BLANK-12388	Instrument ID	10MSHR09 (P)
Filename	P70307A_05	GC Column ID	US5455214H
Analyzed	03/07/2007 17:18	ICAL Date	02/28/2007

2,3,4,6,7,8-HxCDF-13C	37:06	3.10e7	5.71e7	6.39e6	1.25e7	2.341e3	3.366e3	0.54
1,2,3,7,8,9-HxCDF-13C	38:07	2.85e7	5.41e7	6.15e6	1.14e7	7.967e3	1.015e4	0.53
1,2,3,4,7,8-HxCDF	36:14	4.72e4	4.10e4	1.39e4	6.27e3	1.330e3	7.054e2	1.15
1,2,3,6,7,8-HxCDF	36:23	2.66e4	2.24e4	7.14e3	4.42e3	1.052e3	8.058e2	1.19
2,3,4,6,7,8-HxCDF	37:06	2.21e4	1.68e4	5.14e3	3.90e3	1.039e3	8.058e2	1.31
1,2,3,7,8,9-HxCDF	38:07	1.90e4	1.45e4	4.21e3	3.49e3	9.511e2	6.432e2	1.31

Other HxCDF	1	36:05	2.17e4	1.71e4				1.26
	2	34:52	3.08e4	2.93e4				1.05
	3	34:38	2.24e4	1.80e4				1.25

Ethers	1	36:46	2.27e4	1.79e4				1.26	E
	2	35:39	1.33e4	9.65e3				1.38	E

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:17	4.25e7	3.37e7	8.99e6	7.21e6	6.664e2	2.808e2	1.26	
1,2,3,6,7,8-HxCDD-13C	37:24	4.73e7	3.77e7	9.36e6	7.62e6	1.572e4	1.104e4	1.25	
1,2,3,7,8,9-HxCDD-13C	37:45	5.35e7	4.25e7	9.34e6	7.45e6	1.724e3	1.056e3	1.26	
1,2,3,4,7,8-HxCDD	37:18	ND	ND	ND	ND	1.180e3	1.037e3		
1,2,3,6,7,8-HxCDD	37:24	1.03e4	8.22e3	3.45e3	3.04e3	1.180e3	9.449e2	1.25	
1,2,3,7,8,9-HxCDD	37:45	ND	ND	ND	ND	1.180e3	1.069e3		
Other HxCDD	1	35:23	1.73e4	1.42e4				1.22	

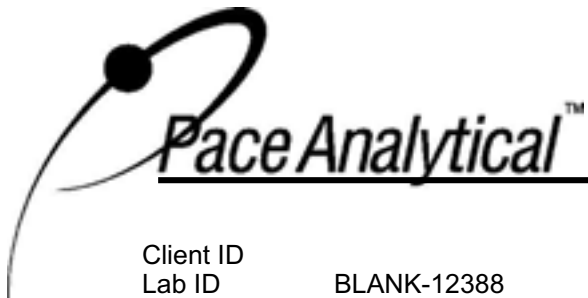
Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	39:51	2.05e7	4.43e7	4.75e6	1.05e7	1.916e3	7.911e2	0.46	
1,2,3,4,7,8,9-HpCDF-13C	41:30	1.37e7	3.15e7	3.20e6	7.17e6	3.105e3	2.519e3	0.44	
1,2,3,4,6,7,8-HpCDF	39:51	5.36e4	5.03e4	1.02e4	1.10e4	1.373e3	1.347e3	1.06	
1,2,3,4,7,8,9-HpCDF	41:30	ND	ND	ND	ND	1.893e3	1.494e3		

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	40:58	2.77e7	2.62e7	6.53e6	6.35e6	1.185e3	5.141e2	1.06	
1,2,3,4,6,7,8-HpCDD	40:59	2.87e4	2.77e4	6.72e3	6.56e3	1.300e3	1.260e3	1.03	
Other HpCDD	1	40:10	3.04e4	3.10e4				0.98	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:10	4.43e4	4.52e4	8.26e3	1.14e4	1.507e3	1.808e3	0.98	

## REPORT OF LABORATORY ANALYSIS

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Client ID		Injected By	CVS
Lab ID	BLANK-12388	Instrument ID	10MSHR09 (P)
Filename	P70307A_05	GC Column ID	US5455214H
Analyzed	03/07/2007 17:18	ICAL Date	02/28/2007

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:57	3.59e7	4.08e7	8.34e6	9.31e6	1.137e3	6.197e2	0.88	
OCDD	43:58	9.75e4	1.12e5	2.29e4	2.68e4	2.458e3	1.523e3	0.87	

## REPORT OF LABORATORY ANALYSIS

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### PCDD/PCDF Detected Peak List

Prepared By \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client ID	LCS-12389	Injected By	CVS
Lab ID	LCS-12389	Instrument ID	10MSHR06 (U)
Filename	U70308A_07	GC Column ID	US6667215H
Analyzed	03/08/2007 13:28	ICAL Date	01/27/2007

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Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:50	4.85e7	6.04e7	6.19e6	7.83e6	----	----	0.80	
2,3,7,8-TCDF	22:52	5.77e6	7.22e6	7.49e5	9.30e5	----	----	0.80	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	23:05	4.13e7	5.24e7	5.77e6	7.05e6	----	----	0.79	
2,3,7,8-TCDD-13C	24:01	3.40e7	4.31e7	4.04e6	5.09e6	----	----	0.79	
2,3,7,8-TCDD-37Cl4	24:03	9.45e6		1.10e6		----	----		
2,3,7,8-TCDD	24:03	3.87e6	4.76e6	4.61e5	5.44e5	----	----	0.81	

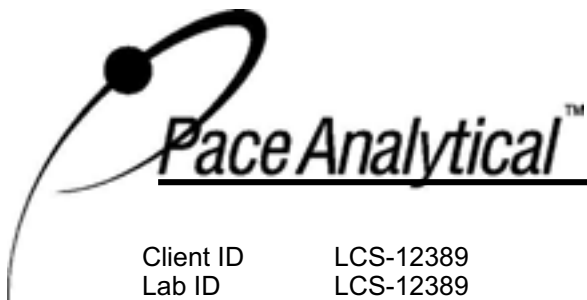
Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	30:30	6.02e7	3.83e7	7.60e6	4.86e6	----	----	1.57	
2,3,4,7,8-PeCDF-13C	32:03	6.33e7	3.92e7	9.70e6	5.75e6	----	----	1.61	
1,2,3,7,8-PeCDF	30:32	3.69e7	2.37e7	4.71e6	2.92e6	----	----	1.56	
2,3,4,7,8-PeCDF	32:04	3.70e7	2.41e7	5.39e6	3.40e6	----	----	1.54	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:32	4.32e7	2.81e7	6.29e6	4.07e6	----	----	1.54	
1,2,3,7,8-PeCDD	32:32	1.50e7	2.41e7	2.18e6	3.49e6	----	----	0.62	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:06	2.99e7	5.64e7	5.76e6	1.06e7	----	----	0.53	
1,2,3,6,7,8-HxCDF-13C	36:15	3.65e7	6.88e7	5.93e6	1.14e7	----	----	0.53	
2,3,4,6,7,8-HxCDF-13C	36:59	3.29e7	6.20e7	5.83e6	1.12e7	----	----	0.53	
1,2,3,7,8,9-HxCDF-13C	38:01	2.72e7	5.13e7	4.24e6	7.82e6	----	----	0.53	
1,2,3,4,7,8-HxCDF	36:08	3.13e7	2.51e7	5.64e6	4.52e6	----	----	1.25	
1,2,3,6,7,8-HxCDF	36:17	3.67e7	2.90e7	5.79e6	4.72e6	----	----	1.26	
2,3,4,6,7,8-HxCDF	37:00	3.34e7	2.67e7	6.06e6	4.85e6	----	----	1.25	
1,2,3,7,8,9-HxCDF	38:02	2.75e7	2.22e7	4.37e6	3.52e6	----	----	1.24	

## REPORT OF LABORATORY ANALYSIS

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Client ID LCS-12389  
Lab ID LCS-12389  
Filename U70308A\_07  
Analyzed 03/08/2007 13:28

Injected By CVS  
Instrument ID 10MSHR06 (U)  
GC Column ID US6667215H  
ICAL Date 01/27/2007

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:12	3.42e7	2.68e7	6.87e6	5.31e6	----	----	1.28	
1,2,3,6,7,8-HxCDD-13C	37:18	4.33e7	3.43e7	7.68e6	6.02e6	----	----	1.26	
1,2,3,7,8,9-HxCDD-13C	37:38	4.95e7	3.95e7	7.69e6	6.21e6	----	----	1.25	
1,2,3,4,7,8-HxCDD	37:12	2.09e7	1.69e7	4.27e6	3.47e6	----	----	1.24	
1,2,3,6,7,8-HxCDD	37:19	2.57e7	2.05e7	4.40e6	3.55e6	----	----	1.25	
1,2,3,7,8,9-HxCDD	37:38	2.33e7	1.86e7	3.77e6	2.93e6	----	----	1.25	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	39:42	2.06e7	4.45e7	3.68e6	8.00e6	----	----	0.46	
1,2,3,4,7,8,9-HpCDF-13C	41:23	1.48e7	3.25e7	2.56e6	5.64e6	----	----	0.45	
1,2,3,4,6,7,8-HpCDF	39:43	2.70e7	2.59e7	4.98e6	4.69e6	----	----	1.04	
1,2,3,4,7,8,9-HpCDF	41:24	1.85e7	1.79e7	3.27e6	3.13e6	----	----	1.03	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	40:52	2.53e7	2.38e7	4.72e6	4.30e6	----	----	1.06	
1,2,3,4,6,7,8-HpCDD	40:53	1.47e7	1.42e7	2.72e6	2.54e6	----	----	1.04	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	43:60	2.53e7	2.83e7	3.96e6	4.44e6	----	----	0.89	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:48	3.75e7	4.18e7	5.94e6	6.57e6	----	----	0.90	
OCDD	43:49	2.21e7	2.31e7	3.30e6	3.61e6	----	----	0.96	

## REPORT OF LABORATORY ANALYSIS

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**PCDD/PCDF Detected Peak List**

Prepared By \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client Name ESS Laboratory  
Client ID 0702344-01-MS  
Lab ID 1047221001-MS  
Filename P70306A\_15  
Analyzed 03/07/2007 00:00

Injected By CVS  
Instrument ID 10MSHR09 (P)  
GC Column ID US5455214H  
ICAL Date 02/28/2007

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Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:52	6.99e7	8.85e7	1.01e7	1.29e7	----	----	0.79	
2,3,7,8-TCDF	22:54	7.73e6	9.89e6	1.11e6	1.44e6	----	----	0.78	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	23:04	6.66e7	8.41e7	9.90e6	1.25e7	----	----	0.79	
2,3,7,8-TCDD-13C	24:03	5.26e7	6.63e7	7.23e6	9.17e6	----	----	0.79	
2,3,7,8-TCDD-37Cl4	24:04	1.35e7		1.83e6		----	----		
2,3,7,8-TCDD	24:04	5.65e6	7.21e6	7.75e5	9.99e5	----	----	0.78	

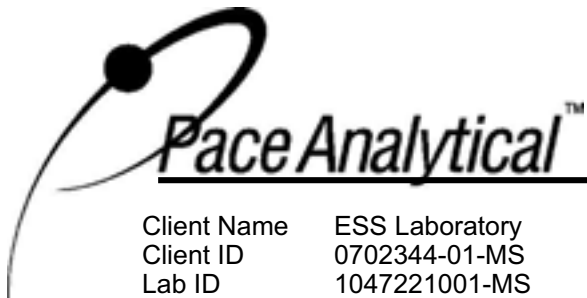
Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	30:36	6.94e7	4.40e7	1.13e7	7.21e6	----	----	1.58	
2,3,4,7,8-PeCDF-13C	32:09	6.98e7	4.36e7	1.36e7	8.47e6	----	----	1.60	
1,2,3,7,8-PeCDF	30:38	3.83e7	2.49e7	6.24e6	4.07e6	----	----	1.54	
2,3,4,7,8-PeCDF	32:09	3.81e7	2.50e7	7.09e6	4.66e6	----	----	1.53	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:36	5.39e7	3.45e7	1.04e7	6.63e6	----	----	1.56	
1,2,3,7,8-PeCDD	32:37	1.73e7	2.83e7	3.29e6	5.47e6	----	----	0.61	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:13	2.57e7	4.88e7	6.44e6	1.23e7	----	----	0.53	
1,2,3,6,7,8-HxCDF-13C	36:22	2.50e7	4.81e7	6.03e6	1.15e7	----	----	0.52	
2,3,4,6,7,8-HxCDF-13C	37:05	2.41e7	4.61e7	6.25e6	1.20e7	----	----	0.52	
1,2,3,7,8,9-HxCDF-13C	38:06	2.09e7	3.94e7	5.40e6	1.04e7	----	----	0.53	
1,2,3,4,7,8-HxCDF	36:14	2.47e7	1.99e7	6.24e6	4.91e6	----	----	1.24	
1,2,3,6,7,8-HxCDF	36:23	2.46e7	1.98e7	5.54e6	4.50e6	----	----	1.24	
2,3,4,6,7,8-HxCDF	37:06	2.33e7	1.89e7	6.33e6	5.16e6	----	----	1.23	
1,2,3,7,8,9-HxCDF	38:07	2.02e7	1.65e7	5.20e6	4.26e6	----	----	1.23	

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Client Name	ESS Laboratory	Injected By	CVS
Client ID	0702344-01-MS	Instrument ID	10MSHR09 (P)
Lab ID	1047221001-MS	GC Column ID	US5455214H
Filename	P70306A_15	ICAL Date	02/28/2007
Analyzed	03/07/2007 00:00		

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:16	3.23e7	2.56e7	8.72e6	6.89e6	----	----	1.26	
1,2,3,6,7,8-HxCDD-13C	37:24	3.41e7	2.72e7	8.99e6	7.40e6	----	----	1.25	
1,2,3,7,8,9-HxCDD-13C	37:43	4.52e7	3.62e7	1.16e7	9.29e6	----	----	1.25	
1,2,3,4,7,8-HxCDD	37:17	1.86e7	1.51e7	5.11e6	4.05e6	----	----	1.24	
1,2,3,6,7,8-HxCDD	37:24	1.86e7	1.51e7	4.78e6	4.06e6	----	----	1.23	
1,2,3,7,8,9-HxCDD	37:44	1.89e7	1.49e7	4.95e6	3.97e6	----	----	1.27	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	39:49	1.64e7	3.63e7	4.66e6	1.01e7	----	----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	41:28	1.24e7	2.77e7	3.44e6	7.83e6	----	----	0.45	
1,2,3,4,6,7,8-HpCDF	39:50	2.18e7	2.10e7	6.31e6	6.11e6	----	----	1.04	
1,2,3,4,7,8,9-HpCDF	41:29	1.52e7	1.47e7	4.26e6	4.16e6	----	----	1.04	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	40:57	2.46e7	2.37e7	7.17e6	7.09e6	----	----	1.04	
1,2,3,4,6,7,8-HpCDD	40:57	1.34e7	1.29e7	4.06e6	3.92e6	----	----	1.04	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:06	1.72e7	1.86e7	4.51e6	4.97e6	----	----	0.93	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:55	3.44e7	3.80e7	9.92e6	1.11e7	----	----	0.90	
OCDD	43:56	2.01e7	2.24e7	5.87e6	6.56e6	----	----	0.90	

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### PCDD/PCDF Detected Peak List

Prepared By \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Client Name	ESS Laboratory	Injected By	CVS
Client ID	0702344-01-MSD	Instrument ID	10MSHR09 (P)
Lab ID	1047221001-MSD	GC Column ID	US5455214H
Filename	P70306A_16	ICAL Date	02/28/2007
Analyzed	03/07/2007 00:47		

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Tetra-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
2,3,7,8-TCDF-13C	22:52	6.78e7	8.63e7	9.78e6	1.23e7	----	----	0.79	
2,3,7,8-TCDF	22:54	7.25e6	9.61e6	1.03e6	1.34e6	----	----	0.75	

Tetra-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4-TCDD-13C	23:04	6.64e7	8.31e7	1.00e7	1.24e7	----	----	0.80	
2,3,7,8-TCDD-13C	24:03	5.07e7	6.40e7	7.11e6	8.95e6	----	----	0.79	
2,3,7,8-TCDD-37Cl4	24:04	1.25e7		1.70e6		----	----		
2,3,7,8-TCDD	24:04	5.29e6	6.85e6	7.43e5	9.05e5	----	----	0.77	

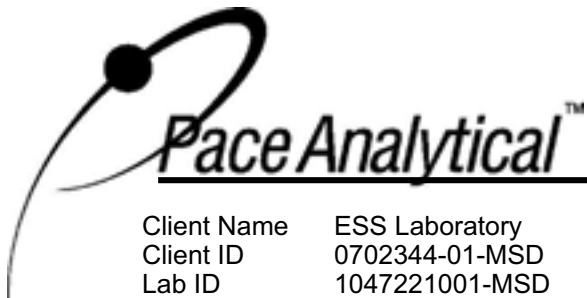
Penta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDF-13C	30:36	6.92e7	4.46e7	1.15e7	7.31e6	----	----	1.55	
2,3,4,7,8-PeCDF-13C	32:09	7.09e7	4.53e7	1.37e7	8.80e6	----	----	1.56	
1,2,3,7,8-PeCDF	30:38	3.83e7	2.44e7	6.42e6	4.03e6	----	----	1.57	
2,3,4,7,8-PeCDF	32:09	3.89e7	2.49e7	7.40e6	4.78e6	----	----	1.56	

Penta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,7,8-PeCDD-13C	32:36	5.56e7	3.59e7	1.08e7	7.03e6	----	----	1.55	
1,2,3,7,8-PeCDD	32:37	1.73e7	2.82e7	3.38e6	5.44e6	----	----	0.61	

Hexa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDF-13C	36:12	2.81e7	5.43e7	6.85e6	1.36e7	----	----	0.52	
1,2,3,6,7,8-HxCDF-13C	36:22	2.95e7	5.65e7	7.14e6	1.38e7	----	----	0.52	
2,3,4,6,7,8-HxCDF-13C	37:05	2.72e7	5.24e7	6.98e6	1.36e7	----	----	0.52	
1,2,3,7,8,9-HxCDF-13C	38:05	2.38e7	4.61e7	6.28e6	1.19e7	----	----	0.52	
1,2,3,4,7,8-HxCDF	36:14	2.71e7	2.19e7	7.02e6	5.74e6	----	----	1.24	
1,2,3,6,7,8-HxCDF	36:23	2.90e7	2.31e7	6.94e6	5.52e6	----	----	1.26	
2,3,4,6,7,8-HxCDF	37:06	2.61e7	2.08e7	7.12e6	5.63e6	----	----	1.25	
1,2,3,7,8,9-HxCDF	38:07	2.25e7	1.83e7	5.99e6	4.81e6	----	----	1.23	

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Client Name	ESS Laboratory	Injected By	CVS
Client ID	0702344-01-MSD	Instrument ID	10MSHR09 (P)
Lab ID	1047221001-MSD	GC Column ID	US5455214H
Filename	P70306A_16	ICAL Date	02/28/2007
Analyzed	03/07/2007 00:47		

Hexa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,7,8-HxCDD-13C	37:16	3.68e7	2.95e7	1.03e7	8.51e6	----	----	1.25	
1,2,3,6,7,8-HxCDD-13C	37:23	3.87e7	3.09e7	1.05e7	8.35e6	----	----	1.25	
1,2,3,7,8,9-HxCDD-13C	37:43	5.12e7	4.13e7	1.30e7	1.04e7	----	----	1.24	
1,2,3,4,7,8-HxCDD	37:17	2.10e7	1.70e7	5.71e6	4.65e6	----	----	1.24	
1,2,3,6,7,8-HxCDD	37:24	2.14e7	1.69e7	5.45e6	4.42e6	----	----	1.27	
1,2,3,7,8,9-HxCDD	37:44	2.14e7	1.68e7	5.43e6	4.27e6	----	----	1.27	

Hepta-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDF-13C	39:49	1.95e7	4.32e7	5.97e6	1.33e7	----	----	0.45	
1,2,3,4,7,8,9-HpCDF-13C	41:27	1.53e7	3.49e7	4.45e6	9.79e6	----	----	0.44	
1,2,3,4,6,7,8-HpCDF	39:50	2.60e7	2.52e7	7.66e6	7.43e6	----	----	1.03	
1,2,3,4,7,8,9-HpCDF	41:28	1.89e7	1.83e7	5.28e6	5.06e6	----	----	1.03	

Hepta-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
1,2,3,4,6,7,8-HpCDD-13C	40:57	3.08e7	2.91e7	8.89e6	8.64e6	----	----	1.06	
1,2,3,4,6,7,8-HpCDD	40:57	1.69e7	1.60e7	5.09e6	4.92e6	----	----	1.06	

Octa-Furans:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDF	44:04	2.33e7	2.60e7	6.27e6	7.07e6	----	----	0.90	

Octa-Dioxins:	RT	Area 1	Area 2	Height 1	Height 2	Noise 1	Noise 2	Ratio	Code
OCDD-13C	43:54	4.17e7	4.71e7	1.18e7	1.33e7	----	----	0.88	
OCDD	43:55	2.38e7	2.71e7	6.61e6	7.46e6	----	----	0.88	

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