



AR226-1776

Analytical Report

Air Sampling Fluorochemical Report

DuPont Washington Works – Air Sampling Program Round 1

Exygen Research Report No. L0001277

Testing Laboratory

Exygen Research
3058 Research Drive
State College, PA 16801

Requester

Michael D Aucoin
URS Corporation
Barley Mill Plaza
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Wilmington, DE 19805

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ALL DATA CONTAINED IN THIS REPORT WAS GENERATED BY EXYGEN RESEARCH

Summary

Seven solid media samples were received by Centre Analytical Laboratories, Inc. (dba Exygen Research) (Exygen) from DuPont Corporation. The media represent samples of air collected on OVS tubes. Please see Table 1 for a completed listing of samples received and field air volumes collected.

The samples were analyzed for Perfluorooctanoic Acid (C8 Acid) using liquid chromatography / mass spectrometry (LCMS). The method employed is entitled "Method of Analysis for the Determination of Perfluorooctanoic Acid (PFOA) in OVS Airtubes by LCMS" (James Miller, Exygen Research, February 17, 2003).

The OVS tubes were separated into three fractions for specific fluorochemical analysis. Fraction A consisted of the filter, backing material and plastic ring. Fraction B contained the first bed of XAD resin and the PUF backing. Fraction C contained the second bed of XAD resin and PUF backing. The fractions were extracted with 1 mL of methanol. Perfluorodecanoic Acid (C10 Acid) was added as a surrogate spike to each fraction prior to extraction.

Instrument operating conditions can be found at the beginning of each analytical run. Raw instrument data is given in Appendix A. Chain-of-custody information can be found in Appendix B.

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Results Summary

Request #	Air Volume Sampled (L)	C8 Acid (mg/m3)
WWK-A-AMS1-E1 A	1407	< 0.00007
WWK-A-AMS1-E1 B	1407	< 0.00007
WWK-A-AMS1-E1 C	1407	< 0.00007
WWK-A-AMS1-E1 (Total)		< 0.00014
WWK-A-AMS2-E1 A	1410	0.00007
WWK-A-AMS2-E1 B	1410	< 0.00007
WWK-A-AMS2-E1 C	1410	< 0.00007
WWK-A-AMS2-E1 (Total)		0.00007
WWK-A-AMS3-E1 A	1418	0.00008
WWK-A-AMS3-E1 B	1418	< 0.00007
WWK-A-AMS3-E1 C	1418	< 0.00007
WWK-A-AMS3-E1 (Total)		0.00008
WWK-A-AMS4-E1 A	1397	< 0.00007
WWK-A-AMS4-E1 B	1397	< 0.00007
WWK-A-AMS4-E1 C	1397	< 0.00007
WWK-A-AMS4-E1 (Total)		< 0.00014
WWK-A-AMS5-E1 A	1418	< 0.00007
WWK-A-AMS5-E1 B	1418	< 0.00007
WWK-A-AMS5-E1 C	1418	< 0.00007
WWK-A-AMS5-E1 (Total)		< 0.00014
WWK-A-AMS6-E1 A	1482	< 0.00007
WWK-A-AMS6-E1 B	1482	< 0.00007
WWK-A-AMS6-E1 C	1482	< 0.00007
WWK-A-AMS6-E1 (Total)		< 0.00014

1. "<" is defined as not detected at or above the reported level.
2. Sample results have not been corrected for blank results or control spike recoveries.
3. Please note the following descriptions of the OVS sample tube fractions:

Fraction	Fraction Description
A	Frit Extract
B	1st set beads extract
C	2nd set beads extract

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QC Data

LCS

Please note: One control sample was spiked with each perfluorooctanoic acid to give a final concentration of 500 ppb. Air was pulled through the tube at a rate of 1-liter per minute for one hour (480 liters of air). The fractions were separated and analyzed. The acceptable range for control recovery is 75-125%.

Request #	C8 Acid (amount spiked - ppb)	C8 Acid (amount recovered – ppb)	C8 Acid (percent recovery)
Control 1	500	509	102

Blanks

Request #	Vol. Of Air (L)	C8 Acid (ug/fraction)
WWK-A-AMSFBLK-E1 A	0	< 0.10
WWK-A-AMSFBLK-E1 B	0	< 0.10
WWK-A-AMSFBLK-E1 C	0	< 0.10

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Surrogates

A surrogate spike (C10 Acid) was added to all OVS tubes to give a final concentration of 500 ppb in the extract. Surrogate spike recoveries are given in the following table. There are no set criteria for surrogate spike recoveries. Advisory ranges are 75-125%.

Sample #	Amount Spiked (ppb)	Amount Recovered (ppb)	Percent Recovery (%)
WWK-A-AMSFBLK-E1 A	500	663	133 **
WWK-A-AMSFBLK-E1 B	500	345	69 **
WWK-A-AMSFBLK-E1 C	500	393	79
WWK-A-AMS1-E1 A	500	561	112
WWK-A-AMS1-E1 B	500	384	77
WWK-A-AMS1-E1 C	500	359	72 **
WWK-A-AMS2-E1 A	500	668	134 **
WWK-A-AMS2-E1 B	500	423	85
WWK-A-AMS2-E1 C	500	411	82
WWK-A-AMS3-E1 A	500	691	138 **
WWK-A-AMS3-E1 B	500	417	83
WWK-A-AMS3-E1 C	500	418	84
WWK-A-AMS4-E1 A	500	774	155 **
WWK-A-AMS4-E1 B	500	384	77
WWK-A-AMS4-E1 C	500	382	76
WWK-A-AMS5-E1 A	500	643	129 **
WWK-A-AMS5-E1 B	500	358	72 **
WWK-A-AMS5-E1 C	500	407	81
WWK-A-AMS6-E1 A	500	825	165 **
WWK-A-AMS6-E1 B	500	397	79
WWK-A-AMS6-E1 C	500	442	88
Control Spike A	1000 *	1196	120
Control Spike B	500	349	70 **
Control Spike C	500	385	77

* The control spike A Fraction was inadvertently spiked twice with surrogate. The surrogate concentration for this sample is therefore 1000 ppb.

** Surrogate recovery outside of advisory range.

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Calculations

Request #	Vol. Of Air (L)	C8 Acid (raw-ppb)	C8 Acid (ug/fraction)	C8 Acid (mg/m3)
WWK-A-AMSFBLK-E1 A	0	< 10	< 0.10	
WWK-A-AMSFBLK-E1 B	0	< 10	< 0.10	
WWK-A-AMSFBLK-E1 C	0	< 10	< 0.10	
WWK-A-AMS1-E1 A	1407	< 10	< 0.10	< 0.00007
WWK-A-AMS1-E1 B	1407	< 10	< 0.10	< 0.00007
WWK-A-AMS1-E1 C	1407	< 10	< 0.10	< 0.00007
WWK-A-AMS2-E1 A	1410	101	0.10	0.00007
WWK-A-AMS2-E1 B	1410	< 10	< 0.10	< 0.00007
WWK-A-AMS2-E1 C	1410	< 10	< 0.10	< 0.00007
WWK-A-AMS3-E1 A	1418	105	0.11	0.00008
WWK-A-AMS3-E1 B	1418	< 10	< 0.10	< 0.00007
WWK-A-AMS3-E1 C	1418	< 10	< 0.10	< 0.00007
WWK-A-AMS4-E1 A	1397	< 10	< 0.10	< 0.00007
WWK-A-AMS4-E1 B	1397	< 10	< 0.10	< 0.00007
WWK-A-AMS4-E1 C	1397	< 10	< 0.10	< 0.00007
WWK-A-AMS5-E1 A	1418	< 10	< 0.10	< 0.00007
WWK-A-AMS5-E1 B	1418	< 10	< 0.10	< 0.00007
WWK-A-AMS5-E1 C	1418	< 10	< 0.10	< 0.00007
WWK-A-AMS6-E1 A	1482	< 10	< 0.10	< 0.00007
WWK-A-AMS6-E1 B	1482	< 10	< 0.10	< 0.00007
WWK-A-AMS6-E1 C	1482	< 10	< 0.10	< 0.00007
Control Spike A	0	509	0.51	
Control Spike B	0	< 10	< 0.10	
Control Spike C	0	< 10	< 0.10	

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Example Calculation

For sample WWK-A-AMS2-E1 A C8 Acid,

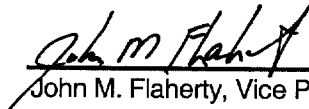
$$= [101 \text{ ng/ml of C8 Acid} \times (1 \text{ ml}) \times (1 \text{ ug} / 1000 \text{ ng}) \times (1 \text{ mg} / 1000 \text{ ug})] / [(1410 \text{ L}) \times (1 \text{ m}^3 / 1000 \text{ L})]$$

$$= 0.00007 \text{ mg} / \text{m}^3$$

Signatures


Paul Connolly, LCMS Team Leader

2/25/04
Date


John M. Flaherty, Vice President

2/25/04
Date

Other Lab Members Contributing to Data

James Miller

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Table 1. Login Information / Field Data

Sample ID	Exygen Lab ID	Date Received	Description	Air Volume Sampled (L)
WWK-A-AMSFBLK-E1 A	L0001277-1	11/7/03	Frit extract	0
WWK-A-AMSFBLK-E1 B	L0001277-2	11/7/03	1st set beads extract	0
WWK-A-AMSFBLK-E1 C	L0001277-3	11/7/03	2nd set beads extract	0
WWK-A-AMS1-E1 A	L0001277-4	11/7/03	Frit extract	1407
WWK-A-AMS1-E1 B	L0001277-5	11/7/03	1st set beads extract	1407
WWK-A-AMS1-E1 C	L0001277-6	11/7/03	2nd set beads extract	1407
WWK-A-AMS2-E1 A	L0001277-7	11/7/03	Frit extract	1410
WWK-A-AMS2-E1 B	L0001277-8	11/7/03	1st set beads extract	1410
WWK-A-AMS2-E1 C	L0001277-9	11/7/03	2nd set beads extract	1410
WWK-A-AMS3-E1 A	L0001277-10	11/7/03	Frit extract	1418
WWK-A-AMS3-E1 B	L0001277-11	11/7/03	1st set beads extract	1418
WWK-A-AMS3-E1 C	L0001277-12	11/7/03	2nd set beads extract	1418
WWK-A-AMS4-E1 A	L0001277-13	11/7/03	Frit extract	1397
WWK-A-AMS4-E1 B	L0001277-14	11/7/03	1st set beads extract	1397
WWK-A-AMS4-E1 C	L0001277-15	11/7/03	2nd set beads extract	1397
WWK-A-AMS5-E1 A	L0001277-16	11/7/03	Frit extract	1418
WWK-A-AMS5-E1 B	L0001277-17	11/7/03	1st set beads extract	1418
WWK-A-AMS5-E1 C	L0001277-18	11/7/03	2nd set beads extract	1418
WWK-A-AMS6-E1 A	L0001277-19	11/7/03	Frit extract	1482
WWK-A-AMS6-E1 B	L0001277-20	11/7/03	1st set beads extract	1482
WWK-A-AMS6-E1 C	L0001277-21	11/7/03	2nd set beads extract	1482
Control Spike A	L0001277-22	11/7/03	Frit extract	0
Control Spike B	L0001277-23	11/7/03	1st set beads extract	0
Control Spike C	L0001277-24	11/7/03	2nd set beads extract	0

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Table 2. Chain of Custody

Sample ID	Date Collected	Date Received at Exygen	Date Extracted by Exygen	Date Analyzed by Exygen
WWK-A-AMSFBLK-E1 A	11/5/03	11/7/03	11/17/03	11/17 -11/18/03
WWK-A-AMSFBLK-E1 B	11/5/03	11/7/03	11/17/03	11/17 -11/18/03
WWK-A-AMSFBLK-E1 C	11/5/03	11/7/03	11/17/03	11/17 -11/18/03
WWK-A-AMS1-E1 A	11/5/03	11/7/03	11/17/03	11/17 -11/18/03
WWK-A-AMS1-E1 B	11/5/03	11/7/03	11/17/03	11/17 -11/18/03
WWK-A-AMS1-E1 C	11/5/03	11/7/03	11/17/03	11/17 -11/18/03
WWK-A-AMS2-E1 A	11/5/03	11/7/03	11/17/03	11/17 -11/18/03
WWK-A-AMS2-E1 B	11/5/03	11/7/03	11/17/03	11/17 -11/18/03
WWK-A-AMS2-E1 C	11/5/03	11/7/03	11/17/03	11/17 -11/18/03
WWK-A-AMS3-E1 A	11/5/03	11/7/03	11/17/03	11/17 -11/18/03
WWK-A-AMS3-E1 B	11/5/03	11/7/03	11/17/03	11/17 -11/18/03
WWK-A-AMS3-E1 C	11/5/03	11/7/03	11/17/03	11/17 -11/18/03
WWK-A-AMS4-E1 A	11/5/03	11/7/03	11/17/03	11/17 -11/18/03
WWK-A-AMS4-E1 B	11/5/03	11/7/03	11/17/03	11/17 -11/18/03
WWK-A-AMS4-E1 C	11/5/03	11/7/03	11/17/03	11/17 -11/18/03
WWK-A-AMS5-E1 A	11/5/03	11/7/03	11/17/03	11/17 -11/18/03
WWK-A-AMS5-E1 B	11/5/03	11/7/03	11/17/03	11/17 -11/18/03
WWK-A-AMS5-E1 C	11/5/03	11/7/03	11/17/03	11/17 -11/18/03
WWK-A-AMS6-E1 A	11/5/03	11/7/03	11/17/03	11/17 -11/18/03
WWK-A-AMS6-E1 B	11/5/03	11/7/03	11/17/03	11/17 -11/18/03
WWK-A-AMS6-E1 C	11/5/03	11/7/03	11/17/03	11/17 -11/18/03
Control Spike A	NA	11/7/03	11/17/03	11/17 -11/18/03
Control Spike B	NA	11/7/03	11/17/03	11/17 -11/18/03
Control Spike C	NA	11/7/03	11/17/03	11/17 -11/18/03

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ANALYTICAL DATA REVIEW SHEET

LC/MS

James R. Miller
Analyst

James R. Miller 1/9/04
Signature/Date

John M Flakerty
Reviewed by

John M Flakerty 1/9/04
Signature/Date

Sequence Table:

Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 1	STD 50 ppb	FC8-10	1	Sample		
2	Vial 1	STD 50 ppb	FC8-10	1	Calib		
3	Vial 2	STD 100 ppb	FC8-10	1	Calib		
4	Vial 3	STD 250 ppb	FC8-10	1	Calib		
5	Vial 4	STD 500 ppb	FC8-10	1	Calib		
6	Vial 5	STD 750 ppb	FC8-10	1	Calib		
7	Vial 6	STD 1000 ppb	FC8-10	1	Calib		
8	Vial 7	STD 1500 ppb	FC8-10	1	Calib		
9	Vial 92	Solvent blank	FC8-10	1	Sample		
10	Vial 11	L0001277-22	FC8-10	1	Sample		
11	Vial 12	L0001277-23	FC8-10	1	Sample		
12	Vial 13	L0001277-24	FC8-10	1	Sample		
13	Vial 14	L0001277-1	FC8-10	1	Sample		
14	Vial 15	L0001277-2	FC8-10	1	Sample		
15	Vial 16	L0001277-3	FC8-10	1	Sample		
16	Vial 17	L0001277-4	FC8-10	1	Sample		
17	Vial 18	L0001277-5	FC8-10	1	Sample		
18	Vial 19	L0001277-6	FC8-10	1	Sample		
19	Vial 20	L0001277-7	FC8-10	1	Sample		
20	Vial 4	STD 500 ppb	FC8-10	1	Sample		
21	Vial 92	Solvent blank	FC8-10	1	Sample		
22	Vial 21	L0001277-8	FC8-10	1	Sample		
23	Vial 22	L0001277-9	FC8-10	1	Sample		
24	Vial 23	L0001277-10	FC8-10	1	Sample		
25	Vial 24	L0001277-11	FC8-10	1	Sample		
26	Vial 25	L0001277-12	FC8-10	1	Sample		
27	Vial 26	L0001277-13	FC8-10	1	Sample		
28	Vial 27	L0001277-14	FC8-10	1	Sample		
29	Vial 28	L0001277-15	FC8-10	1	Sample		
30	Vial 29	L0001277-16	FC8-10	1	Sample		
31	Vial 30	L0001277-17	FC8-10	1	Sample		
32	Vial 4	STD 500 ppb	FC8-10	1	Sample		
33	Vial 92	Solvent blank	FC8-10	1	Sample		
34	Vial 31	L0001277-18	FC8-10	1	Sample		
35	Vial 32	L0001277-19	FC8-10	1	Sample		
36	Vial 33	L0001277-20	FC8-10	1	Sample		
37	Vial 34	L0001277-21	FC8-10	1	Sample		
38	Vial 4	STD 500 ppb	FC8-10	1	Sample		
39	Vial 92	Solvent blank	FC8-10	1	Sample		
40	Vial 1	STD 50 ppb	FC8-10	1	Calib		
41	Vial 2	STD 100 ppb	FC8-10	1	Calib		
42	Vial 3	STD 250 ppb	FC8-10	1	Calib		
43	Vial 4	STD 500 ppb	FC8-10	1	Calib		
44	Vial 5	STD 750 ppb	FC8-10	1	Calib		
45	Vial 6	STD 1000 ppb	FC8-10	1	Calib		
46	Vial 7	STD 1500 ppb	FC8-10	1	Calib		

Calibration Part:

Line	Location	SampleName	Method	CalLev	Update	RF	Update	RT	Interval
2	Vial 1	STD 50 ppb	FC8-10	1	Replace		Average		
3	Vial 2	STD 100 ppb	FC8-10	2	Replace		Average		
4	Vial 3	STD 250 ppb	FC8-10	3	Replace		Average		
5	Vial 4	STD 500 ppb	FC8-10	4	Replace		Average		
6	Vial 5	STD 750 ppb	FC8-10	5	Replace		Average		

Sequence: C:\HPCHEM\1\SEQUENCE\111703.S

Line	Location	SampleName	Method	CalLev	Update RF	Update RT	Interval
7	Vial 6	STD 1000 ppb	FC8-10	6	Replace	Average	
8	Vial 7	STD 1500 ppb	FC8-10	7	Replace	Average	
40	Vial 1	STD 50 ppb	FC8-10	1	Average	Average	
41	Vial 2	STD 100 ppb	FC8-10	2	Average	Average	
42	Vial 3	STD 250 ppb	FC8-10	3	Average	Average	
43	Vial 4	STD 500 ppb	FC8-10	4	Average	Average	
44	Vial 5	STD 750 ppb	FC8-10	5	Average	Average	
45	Vial 6	STD 1000 ppb	FC8-10	6	Average	Average	
46	Vial 7	STD 1500 ppb	FC8-10	7	Average	Average	

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LC/MS SYSTEM AND OPERATING CONDITIONS

Client: Dupont

EXYGEN STUDY: L0001277

Instrument: Hewlett-Packard 1100 LC/MSD (LC/MS 3)
API-ES Interface - Negative SIM mode
Nitrogen: 10 L/min at 300°C
Fragmentor: Variable; Vcap: 3500V

Computer: Hewlett-Packard Kayak workstation

Software: Microsoft Windows NT 4.0
Agilent ChemStation Version A.08.03

HPLC Equipment: HP G1379A Solvent Degasser
HP G1311A Quaternary Pump
HP G1313A Autosampler
HP G1316A Column Thermostat
HP G1946A MSD

HPLC Column: Thermo Hypersil-Keystone Betasil C18, 30 x 2.0 mm x 3µm
Column Temp.: 35° C
Mobile Phase (A): 2mM Ammonium acetate in OmniSolv Water
Mobile Phase (B): HPLC grade Methanol

<u>Time</u>	<u>% A</u>	<u>% B</u>
0.0	70	30
6.0	10	90
10.0	10	90
10.0	STOP	STOP

Post Time = 4 min.

Total run time = 14 min.

Flow Rate: 0.3 mL/min
Injected Volume: 5 µL

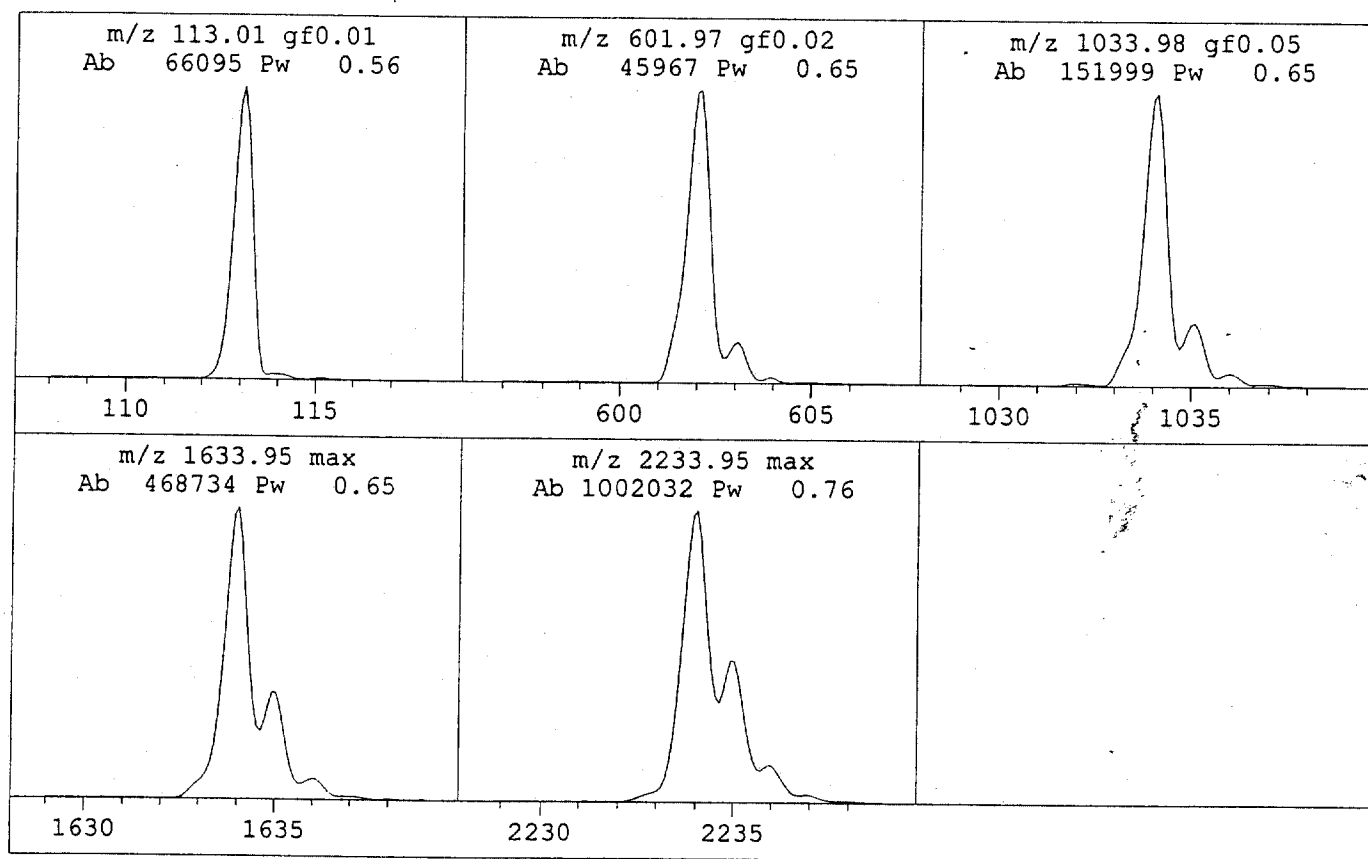
Ions monitored:

Analyte	Ion (m/z)
C8 Acid (PFOA)	369
C10 Surrogate	469

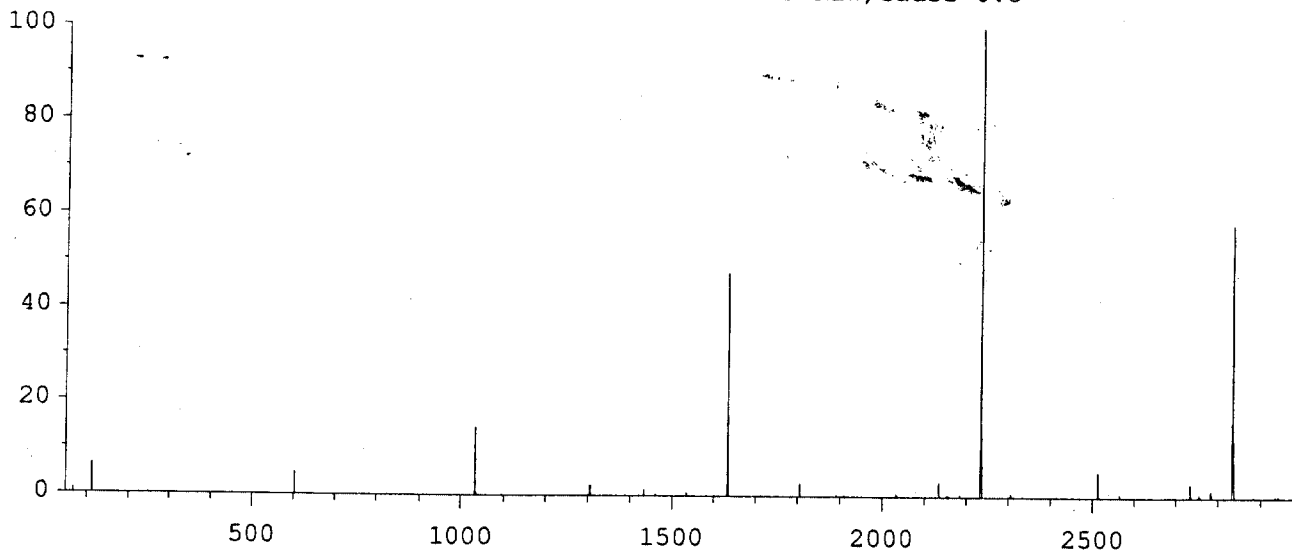
Extraction Date: November 17, 2003

Analyst:

James R. Miller *JRM 11/17/03*
Exygen Research
3058 Research Drive, State College, PA 16801
Phone: (814) 272-1039, FAX: (814) 231-1580



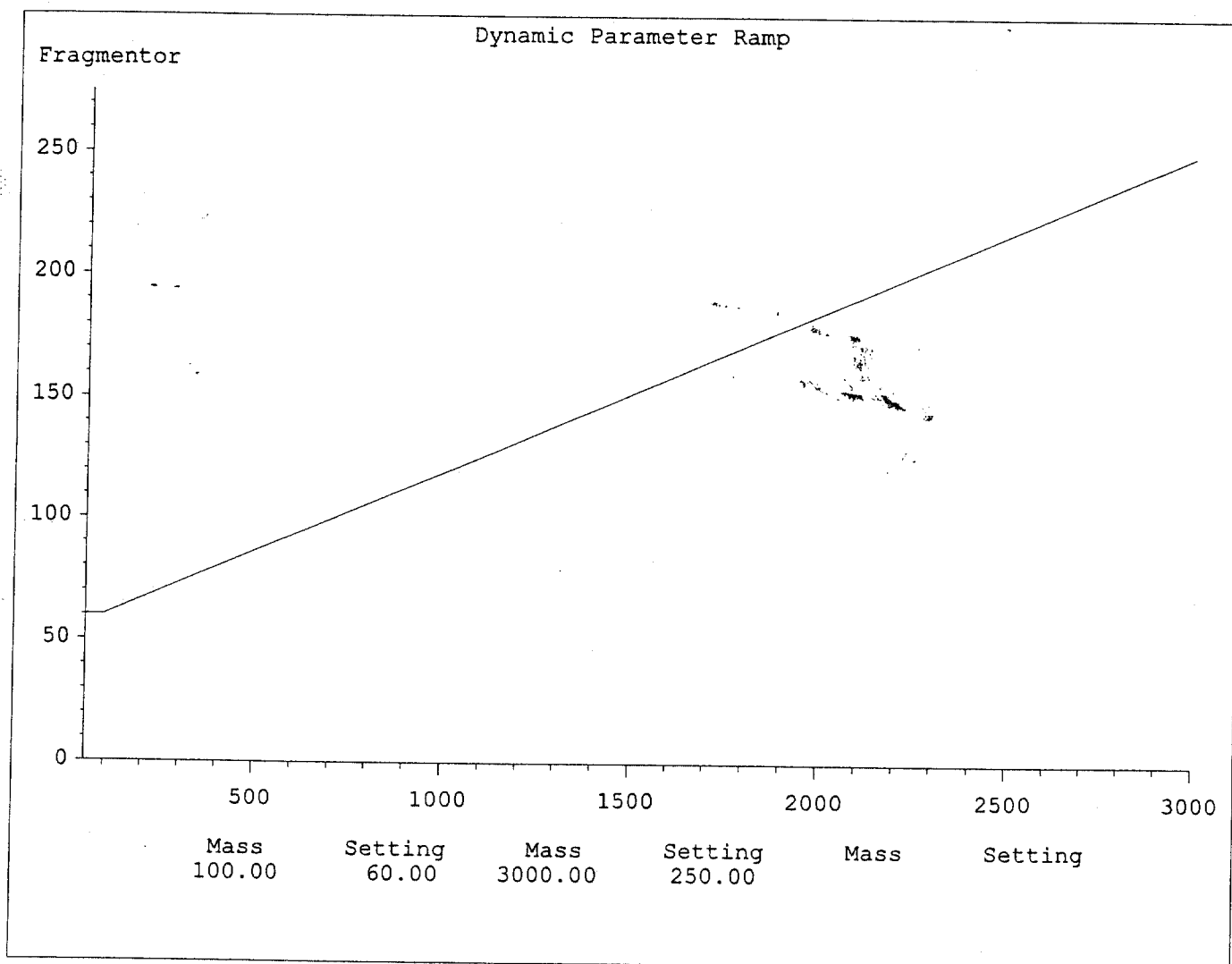
Scan: 50.00 - 3000.00 Samples: 8 Thresh: 0 Step: 0.10
 29501 peaks Base: 2233.95 Abundance: 1021824 F Raw,Gauss 0.3

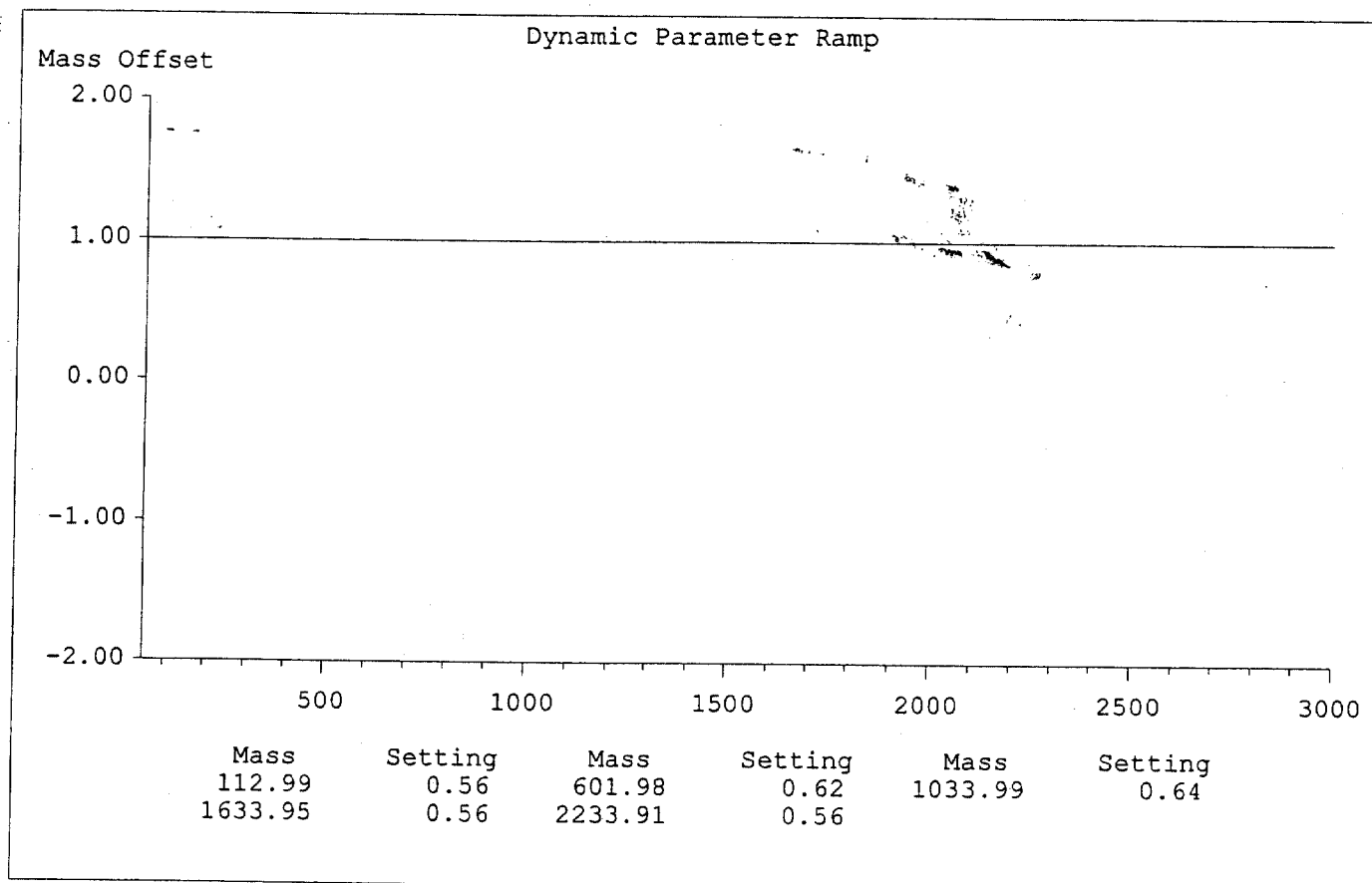
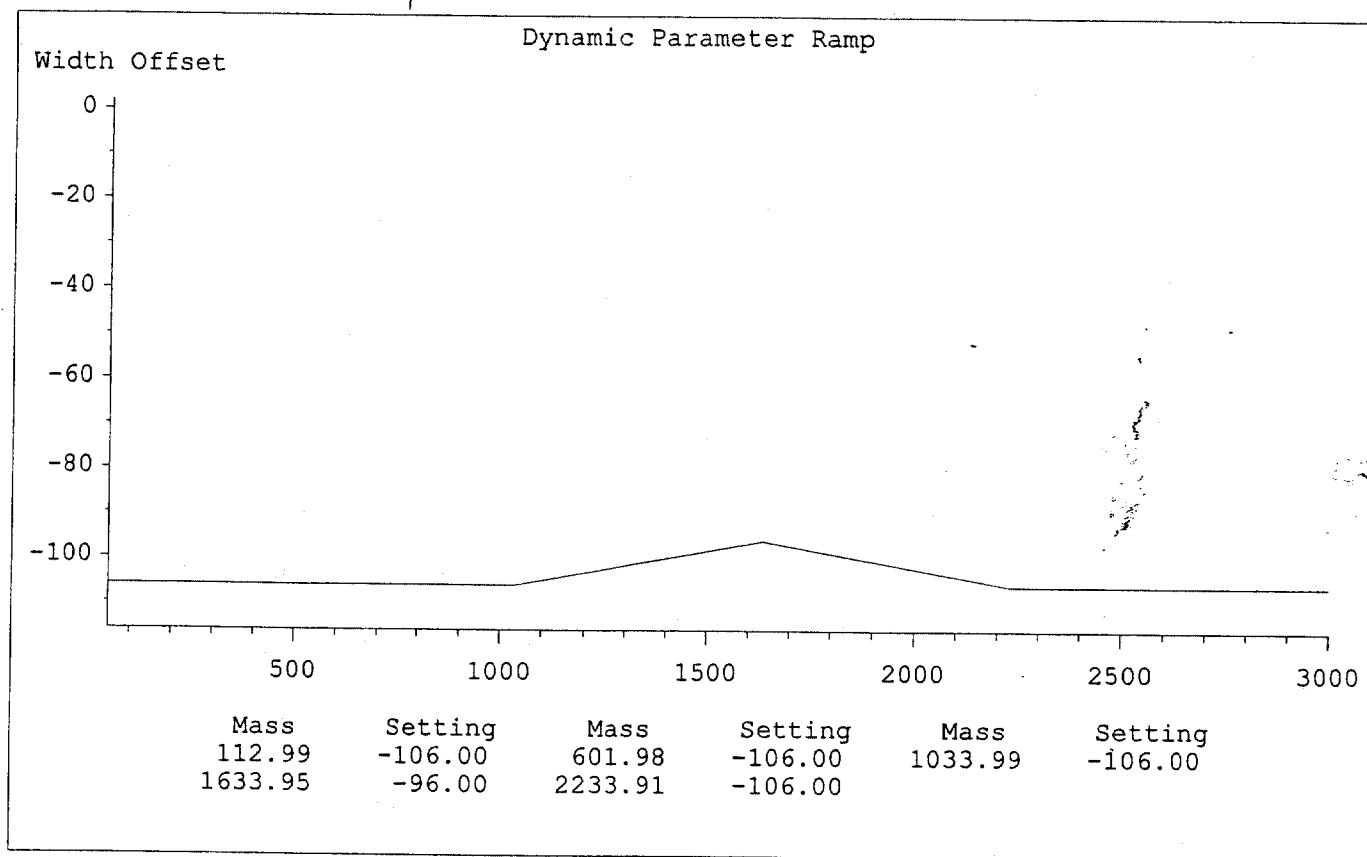


m/z	gf	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
113.01		64976	100.00	113.99	1450	2.23
601.98		48816	75.13	602.85	6177	12.65
1034.05		148800	229.01	1035.05	34384	23.11
1633.95		487296	749.96	1634.85	177792	36.49
2233.95		1021824	1572.62	2234.95	506496	49.57

Mode: API-ES Polarity: NEG

Fragment	VAR	WidthGain	-128
Skim2	6.0	WidthOffs	VAR
Lens1	-4.0	MassGain	-36.15
Lens2	21	MassOffs	VAR
Iris	176		
		Energy	5.0
		OpolPeak	300
		OpolKnee	316
Gain	2.0	QuadDC	0.00
EMV	2068	Samples	8
VCap	4000	Averages	1
		StepSize	0.10
Status:			
CapCur	71	DryingGas	6.0
ChamCur	1.06	Gas Temp	300
Quad Temp	99	Neb Pres	20





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Calibration Table

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Calib. Data Modified : Tuesday, January 06, 2004 3:42:40 PM

Calculate : External Standard

Based on : Peak Area

Rel. Reference Window : 5.000 %

Abs. Reference Window : 0.000 min

Rel. Non-ref. Window : 5.000 %

Abs. Non-ref. Window : 0.000 min

Uncalibrated Peaks : not reported

Partial Calibration : Yes, identified peaks are recalibrated

Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear

Origin : Ignored

Weight : Equal

Recalibration Settings:

Average Response : Average all calibrations

Average Retention Time: Floating Average New 75%

Calibration Report Options :

Printout of recalibrations within a sequence:

Calibration Table after Recalibration

Normal Report after Recalibration

If the sequence is done with bracketing:

Results of first cycle (ending previous bracket)

Signal 1: MSD1 369, EIC=368.7:369.7

Signal 2: MSD1 469, EIC=468.7:469.7

RetTime [min]	Lvl Sig	Amount [ppb]	Area	Amt/Area	Ref Grp Name
7.277	1	50.00000	2.14132e4	2.33501e-3	1 C8 Acid
	2	100.00000	4.05086e4	2.46861e-3	
	3	250.00000	1.05354e5	2.37295e-3	
	4	500.00000	2.02487e5	2.46930e-3	
	5	750.00000	2.93093e5	2.55892e-3	
	6	1000.00000	3.82075e5	2.61729e-3	
	7	1500.00000	5.51002e5	2.72231e-3	
8.040	2	50.00000	3.07352e4	1.62680e-3	1 C10 Surrogate
	2	100.00000	5.72000e4	1.74825e-3	
	3	250.00000	1.48856e5	1.67947e-3	
	4	500.00000	2.88926e5	1.73055e-3	
	5	750.00000	4.15738e5	1.80402e-3	
	6	1000.00000	5.40429e5	1.85038e-3	
	7	1500.00000	7.75202e5	1.93498e-3	

More compound-specific settings:

Compound: C8 Acid

Time Window : From 7.105 min To 8.105 min

Compound: C10 Surrogate

Time Window : From 7.844 min To 8.649 min

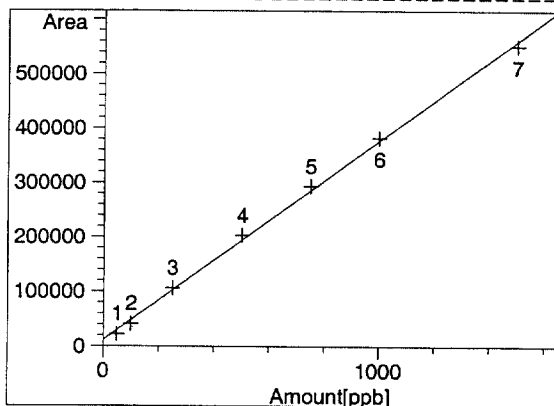
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Peak Sum Table

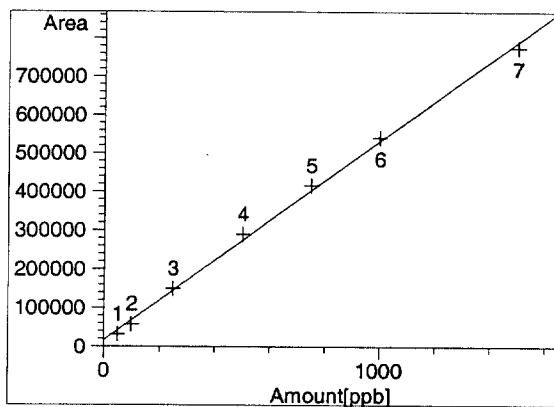
=====

No Entries in table

Calibration Curves



C8 Acid at exp. RT: 7.277
 MSD1 369, EIC=368.7:369.7
 Correlation: 0.99921
 Residual Std. Dev.: 8441.61320
 Formula: $y = mx + b$
 m: 366.65986
 b: 10613.38950
 x: Amount [ppb]
 y: Area



C10 Surrogate at exp. RT: 8.040
 MSD1 469, EIC=468.7:469.7
 Correlation: 0.99897
 Residual Std. Dev.: 13553.16277
 Formula: $y = mx + b$
 m: 516.25884
 b: 16373.12175
 x: Amount [ppb]
 y: Area

Sample Name:STD 50 ppb
Sample Info:Warm up

1

Data file :C:\HPCHEM\1\DATA\Chemstor\11238833\A45120\FC000001.D

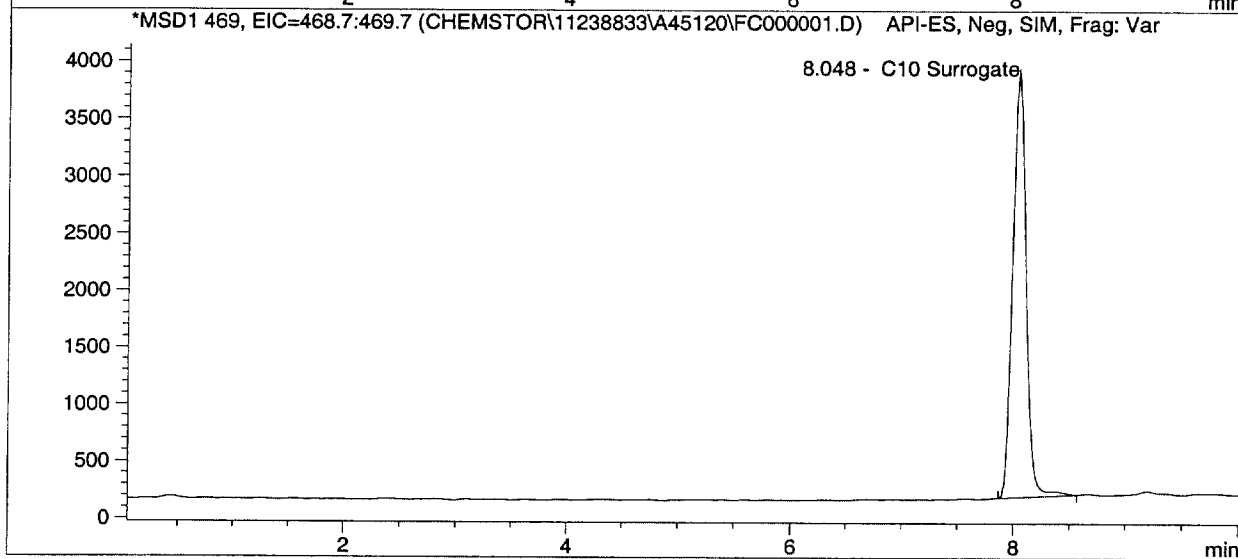
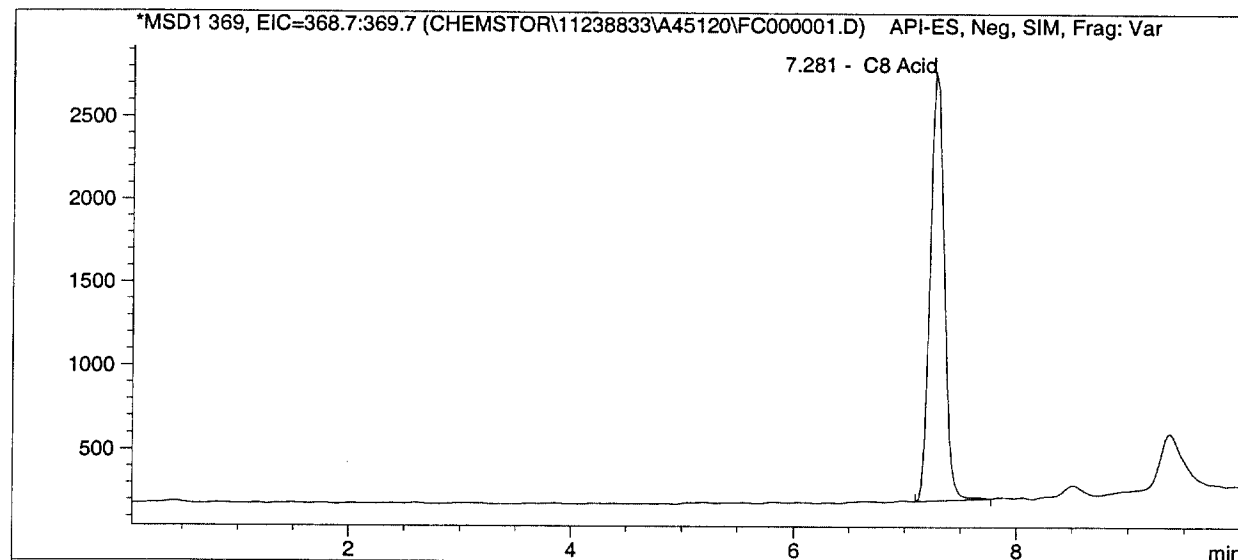
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Injection Date	: 11/17/03	5:03:37 PM	Seq Line	:	1
Acq Operator	: jmillier		Vial No.	:	1
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.

Initials:
Date: 1/6/04
Run# FC000001 To FC000046



Verified by Technical Leader, LC-MS
Initials: Date: 1/6/04
Run: FC000001 to 46

Compound	Amount (ng/mL)	R.T.	Area	Signal
8 Acid	32.29	7.281	22453	MSD1 369, EIC=368.7:369.7
10 Surrogat	28.95	8.048	31319	MSD1 469, EIC=468.7:469.7

*** End of Report ***

0020

Sample Name:STD 50 ppb

Sample Info:

1

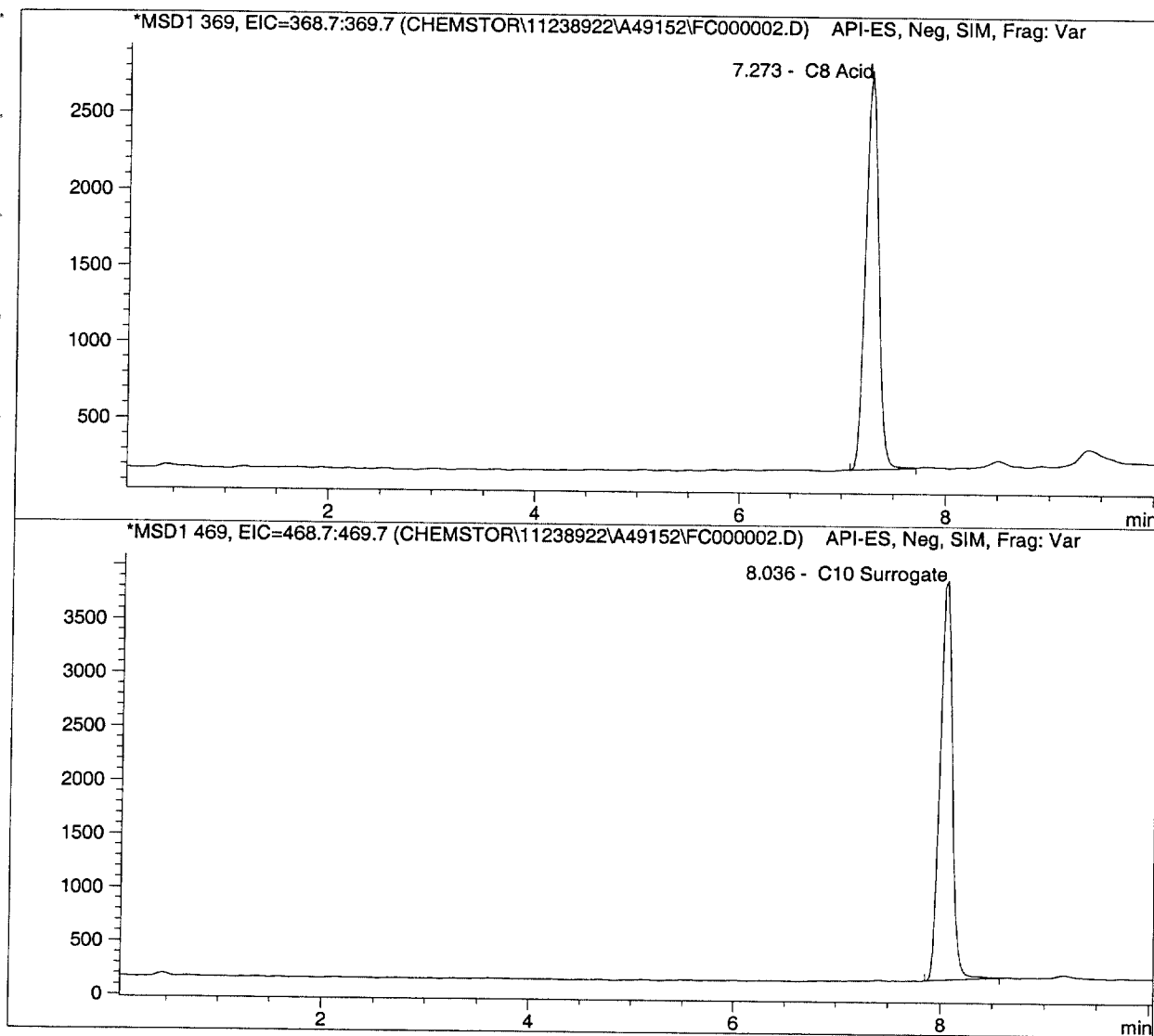
Data file :C:\HPCHEM\1\DATA\Chemstor\11238922\A49152\FC000002.D

=====

Injection Date	: 11/17/03	5:19:09 PM	Seq Line	:	2
Acq Operator	: jmillar		Vial No.	:	1
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
C8 Acid	32.27	7.273	22445	MSD1 369, EIC=368.7:369.7
10 Surrogat	28.92	8.036	31303	MSD1 469, EIC=468.7:469.7

*** End of Report ***

0021

Sample Name:STD 100 ppb

Sample Info:

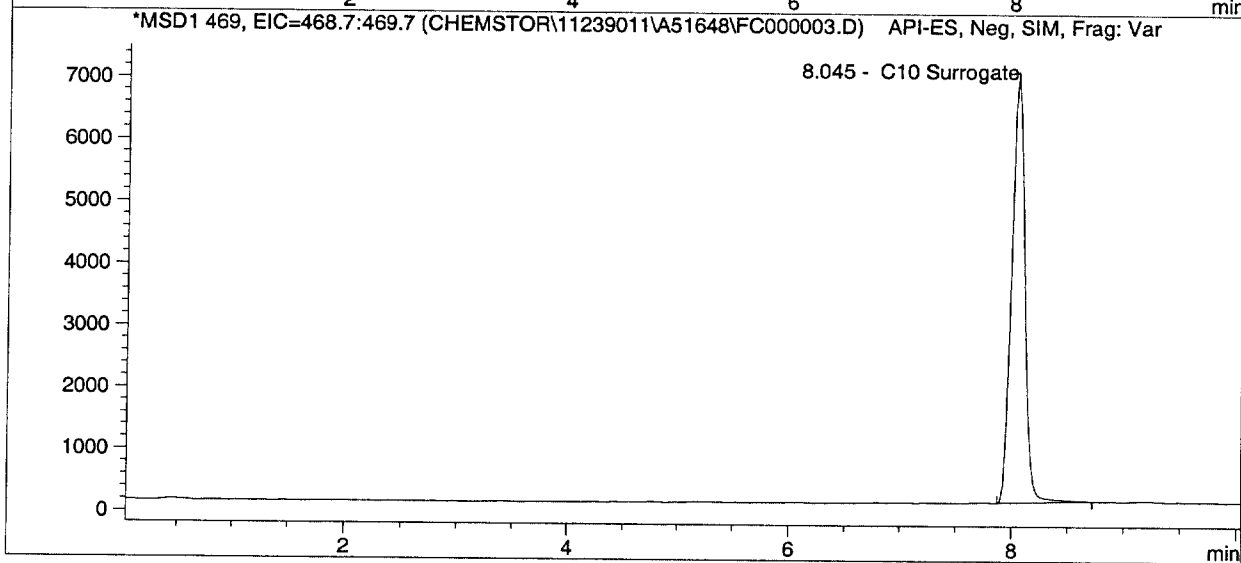
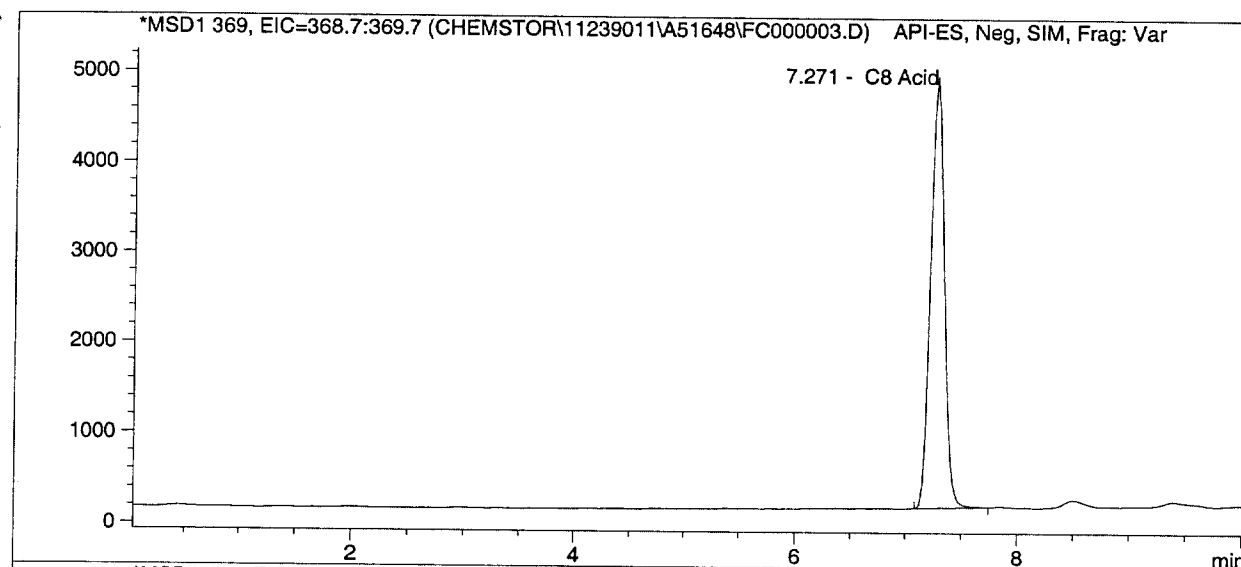
1

Data file :C:\HPCHEM\1\DATA\Chemstor\11239011\A51648\FC000003.D

```
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Injection Date   : 11/17/03      5:34:40 PM      Seq Line   :           3
Acq Operator    : jmillers          Vial No.    :           2
Instrument      : PC00414          Inj. No.    :           1
Dilution       : 1                Inj. Vol.   :           5 µl
=====
```

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
C8 Acid	83.07	7.271	41070	MSD1 369, EIC=368.7:369.7
10 Surrogat	79.66	8.045	57499	MSD1 469, EIC=468.7:469.7

*** End of Report ***

Sample Name:STD 250 ppb

Sample Info:

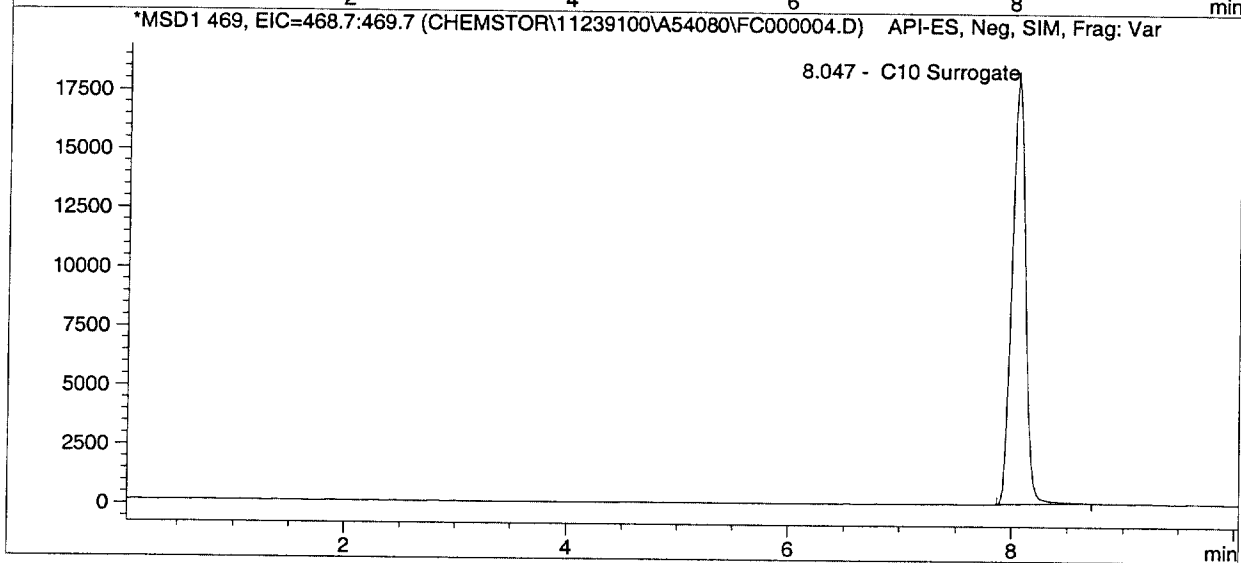
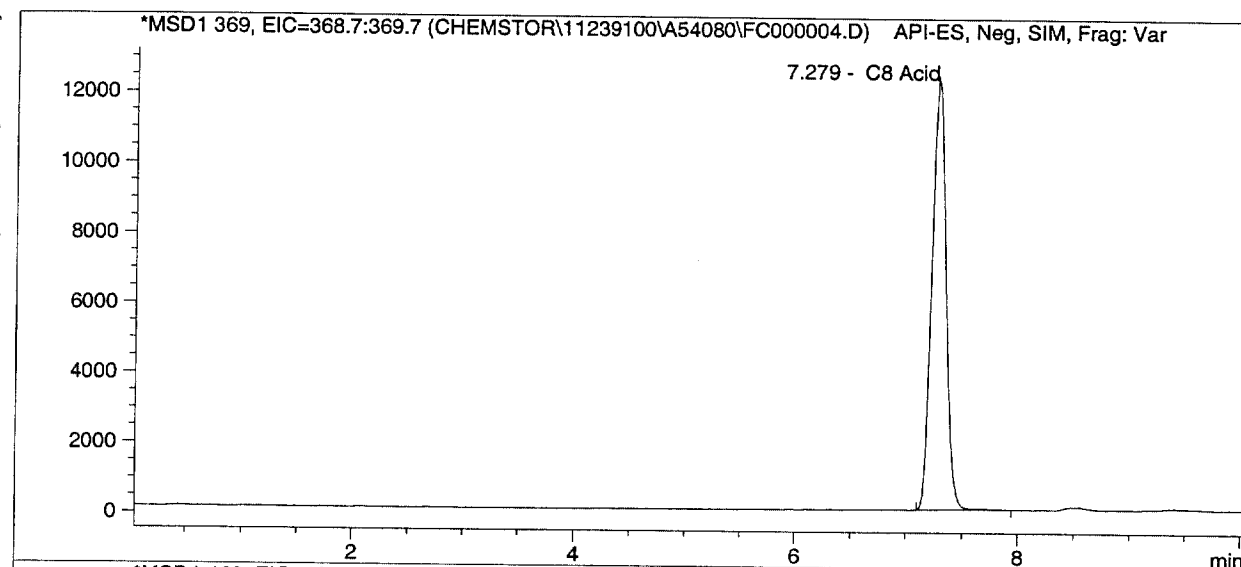
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Data file :C:\HPCHEM\1\DATA\Chemstor\11239100\A54080\FC000004.D

=====
Injection Date : 11/17/03 5:50:13 PM Seq Line : 4
Acq Operator : jmillers Vial No. : 3
Instrument : PC00414 Inj. No. : 1
Dilution : 1 Inj. Vol. : 5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
C8 Acid	264.15	7.279	107467	MSD1 369, EIC=368.7:369.7
10 Surrogat	260.15	8.047	150676	MSD1 469, EIC=468.7:469.7

=====
*** End of Report ***

0023

Sample Name:STD 500 ppb
Sample Info:

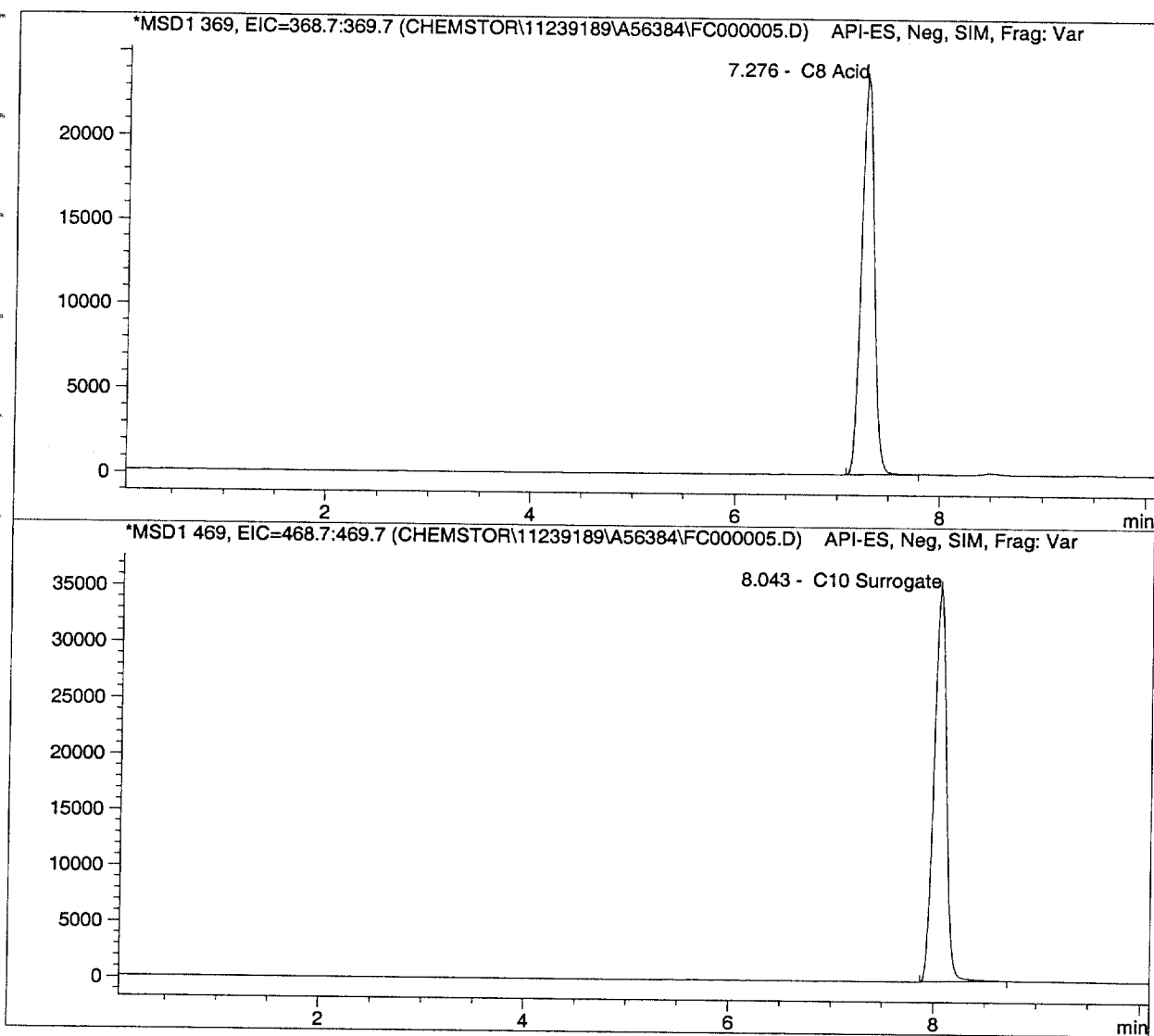
1

Data file :C:\HPCHEM\1\DATA\Chemstor\11239189\A56384\FC000005.D

=====
Injection Date : 11/17/03 6:05:48 PM Seq Line : 5
Acq Operator : jmillers Vial No. : 4
Instrument : PC00414 Inj. No. : 1
Dilution : 1 Inj. Vol. : 5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
C8 Acid	533.05	7.276	206063	MSD1 369, EIC=368.7:369.7
C10 Surrogat	539.02	8.043	294645	MSD1 469, EIC=468.7:469.7

=====
*** End of Report ***

0024

Sample Name:STD 750 ppb

Sample Info:

1

Data file :C:\HPCHEM\1\DATA\Chemstor\11239278\A59328\FC000006.D

=====

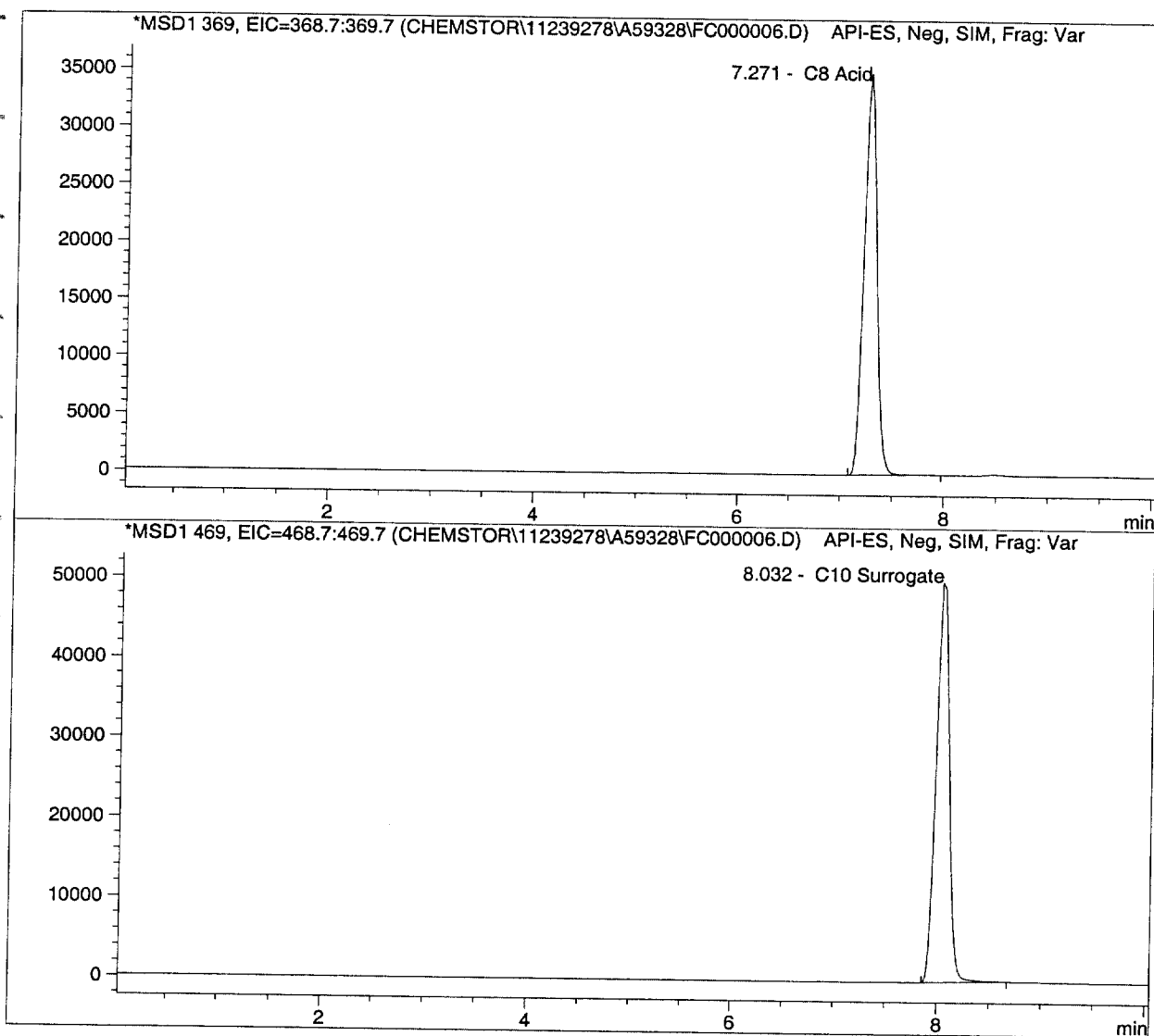
Injection Date	: 11/17/03	6:21:21 PM	Seq Line	:	6
Acq Operator	: jmillier		Vial No.	:	5
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M

Analysis Method : C:\HPCHEM\1\METHODS\111703.M

Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
C8 Acid	790.26	7.271	300368	MSD1 369, EIC=368.7:369.7
C10 Surrogat	785.82	8.032	422062	MSD1 469, EIC=468.7:469.7

*** End of Report ***

0025

Sample Name:STD 1000 ppb

Sample Info:

1

Data file :C:\HPCHEM\1\DATA\Chemstor\11239367\A62272\FC000007.D

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=====
Injection Date   : 11/17/03      6:36:56 PM      Seq Line   :           7
Acq Operator    : jmillers          Vial No.    :           6
Instrument       : PC00414          Inj. No.    :           1
Dilution        : 1                Inj. Vol.   :           5 µl
=====
```

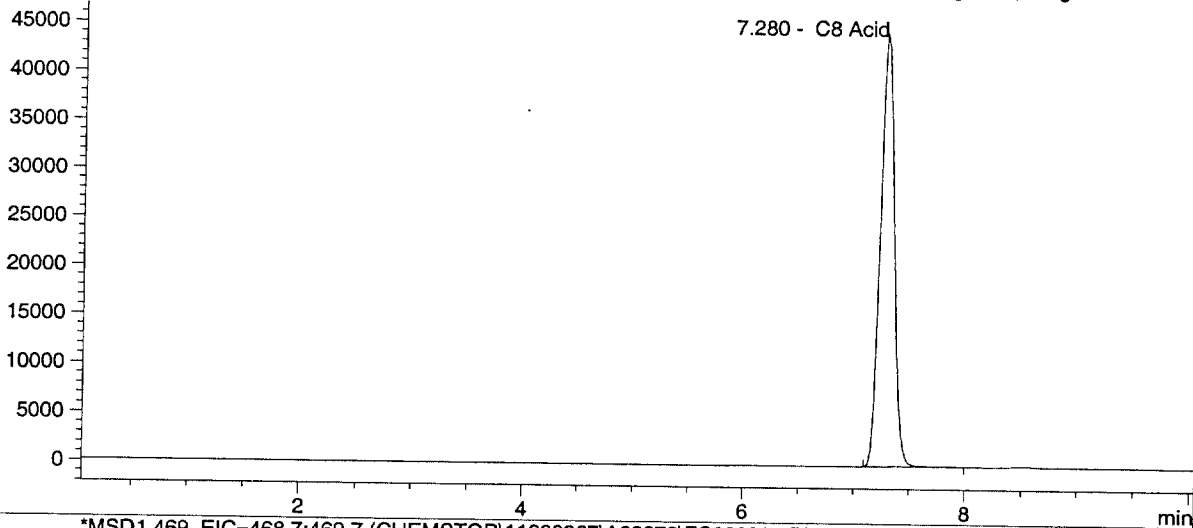
Acq. Method : FC8-10.M

Analysis Method : C:\HPCHEM\1\METHODS\111703.M

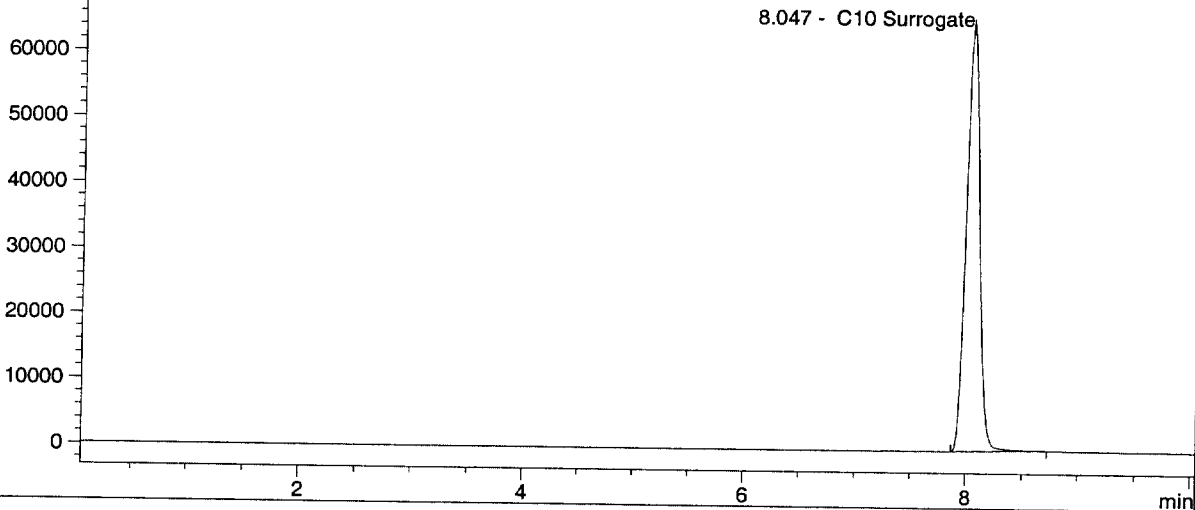
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.

*MSD1 369, EIC=368.7:369.7 (CHEMSTOR\11239367\A62272\FC000007.D) API-ES, Neg, SIM, Frag: Var



*MSD1 469, EIC=468.7:469.7 (CHEMSTOR\11239367\A62272\FC000007.D) API-ES, Neg, SIM, Frag: Var



Compound	Amount (ng/mL)	R.T.	Area	Signal
C8 Acid	1037.06	7.280	390861	MSD1 369, EIC=368.7:369.7
C10 Surrogat	1034.57	8.047	550477	MSD1 469, EIC=468.7:469.7

*** End of Report ***

0026

Sample Name:STD 1500 ppb

Sample Info:

1

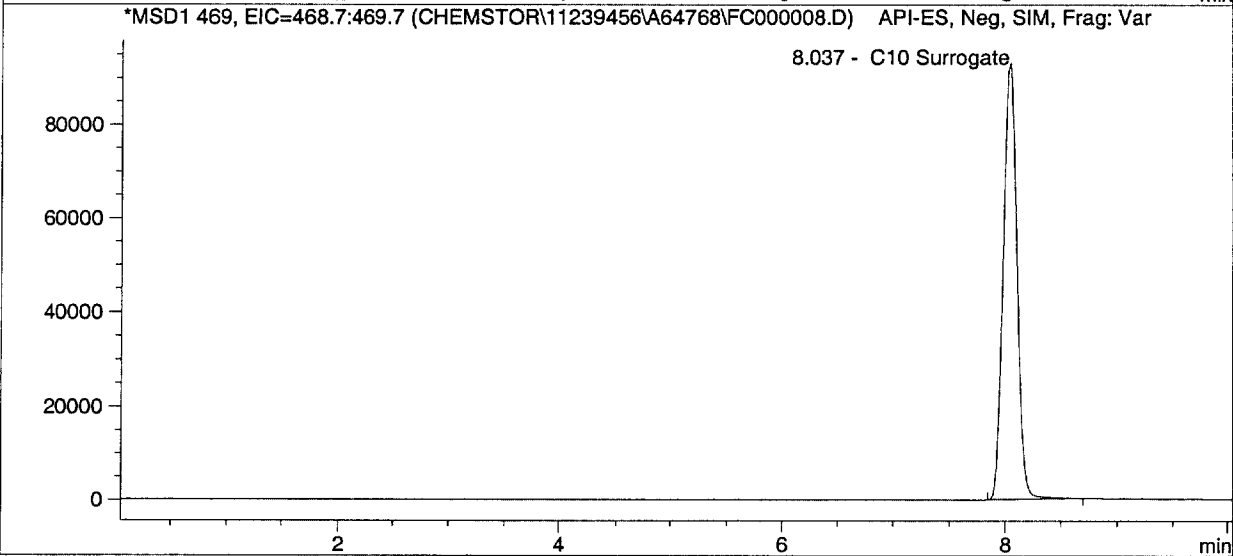
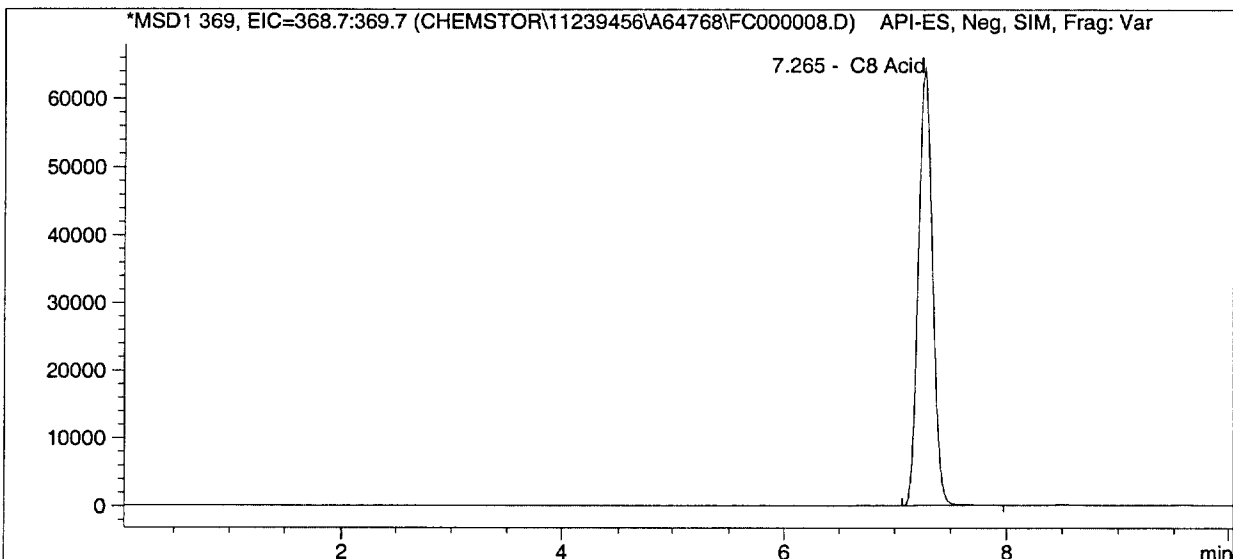
Data file :C:\HPCHEM\1\DATA\Chemstor\11239456\A64768\FC000008.D

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Injection Date	: 11/17/03	6:52:34 PM	Seq Line	:	8
Acq Operator	: jmillier		Vial No.	:	7
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
8 Acid	1516.67	7.265	566716	MSD1 369, EIC=368.7:369.7
10 Surrogat	1509.46	8.037	795645	MSD1 469, EIC=468.7:469.7

=====
*** End of Report ***

0027

Sample Name: Solvent blank

Sample Info:

1

Data file : C:\HPCHEM\1\DATA\Chemstor\11239542\A67136\FC000009.D

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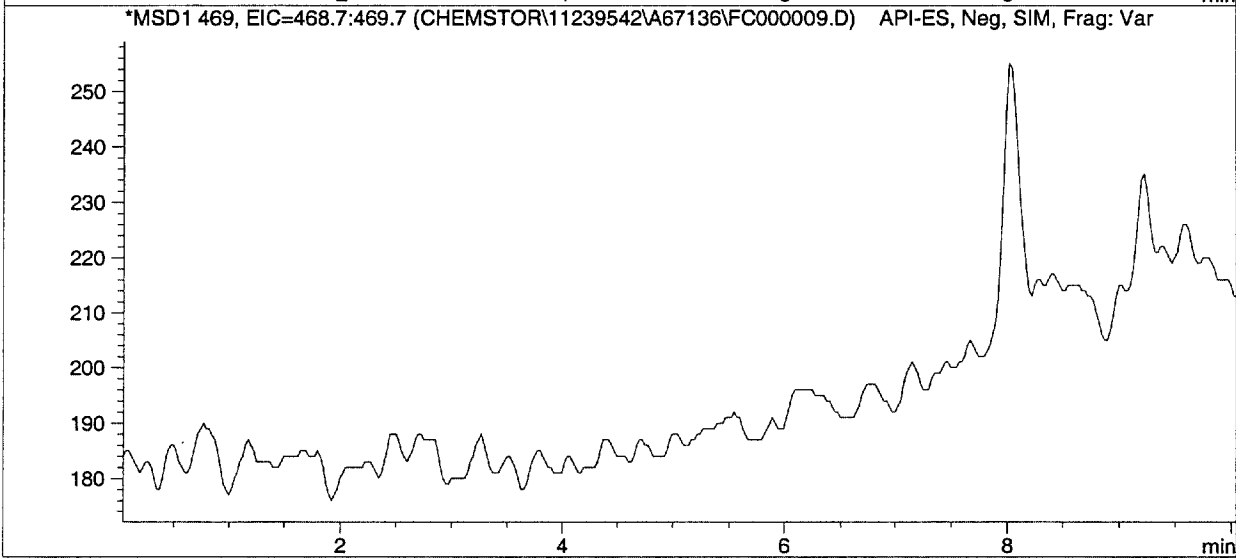
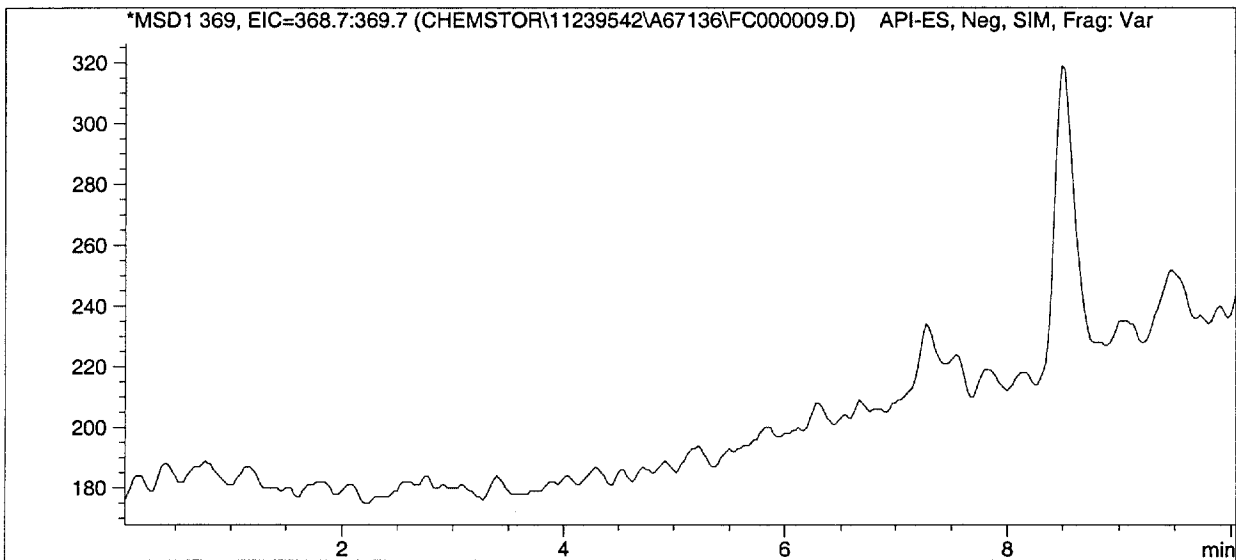
Injection Date	: 11/17/03	7:08:03 PM	Seq Line	:	9
Acq Operator	: jmillier		Vial No.	:	92
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M

Analysis Method : C:\HPCHEM\1\METHODS\111703.M

Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
8 Acid	0.00	0.000	0	MSD1 369, EIC=368.7:369.7
10 Surrogat	0.00	0.000	0	MSD1 469, EIC=468.7:469.7

*** End of Report ***

0028

Sample Name:L0001277-22

Sample Info:

1

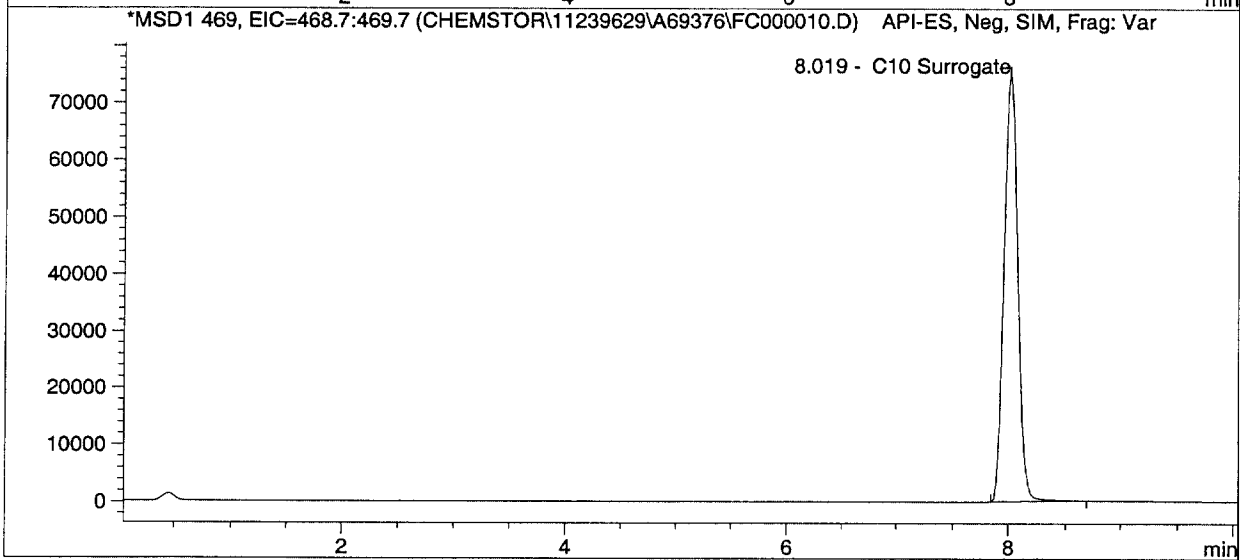
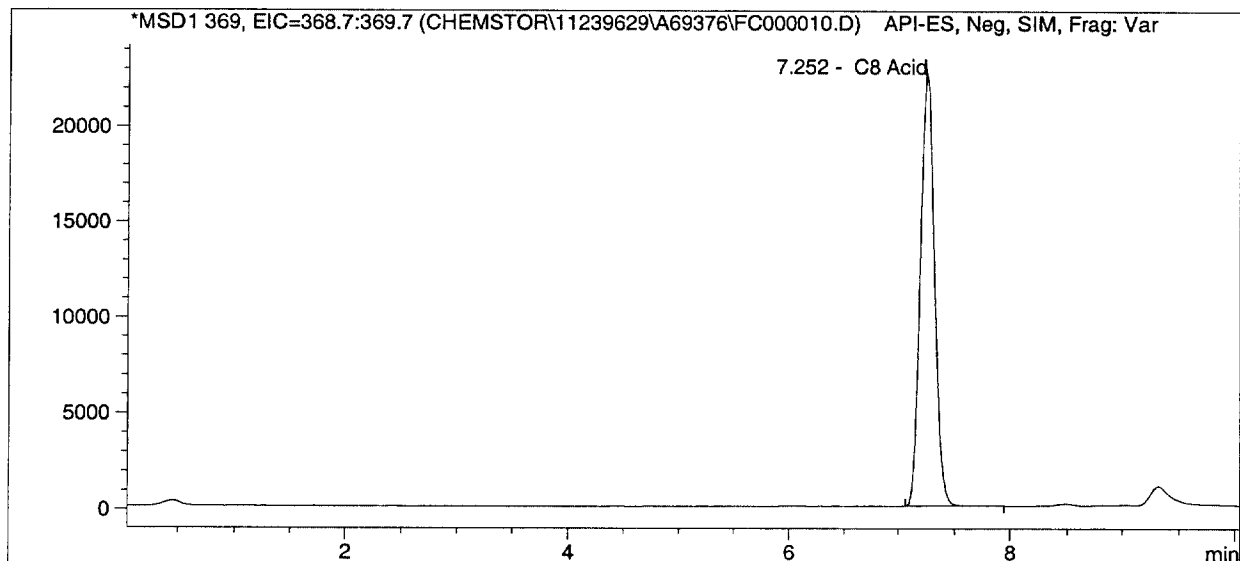
Data file :C:\HPCHEM\1\DATA\Chemstor\11239629\A69376\FC000010.D

=====

Injection Date	: 11/17/03	7:23:35 PM	Seq Line	:	10
Acq Operator	: jmillier		Vial No.	:	11
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
3 Acid	509.00	7.252	197244	MSD1 369, EIC=368.7:369.7
10 Surrogat	1195.66	8.019	633642	MSD1 469, EIC=468.7:469.7

*** End of Report ***

0029

Sample Name:L0001277-23

Sample Info:

1

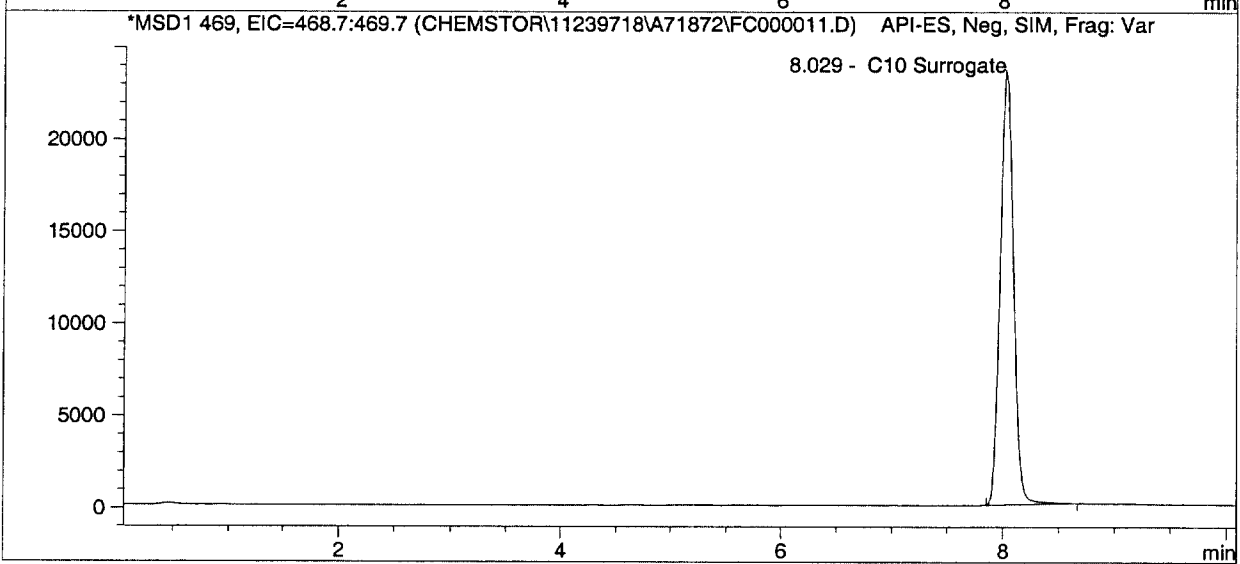
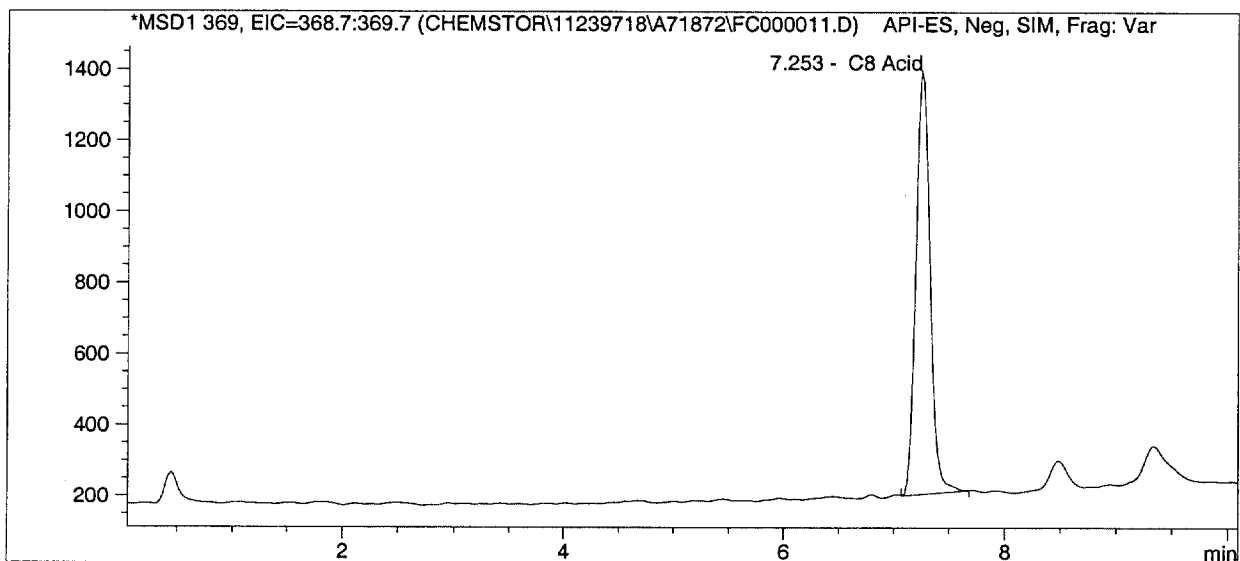
Data file :C:\HPCHEM\1\DATA\Chemstor\11239718\A71872\FC000011.D

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Injection Date	: 11/17/03	7:39:07 PM	Seq Line	:	11
Acq Operator	: jmillar		Vial No.	:	12
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
C8 Acid	0.20	7.253	10688	MSD1 369, EIC=368.7:369.7
C10 Surrogat	348.96	8.029	196528	MSD1 469, EIC=468.7:469.7

*** End of Report ***

0030

Sample Name:L0001277-24

Sample Info:

1

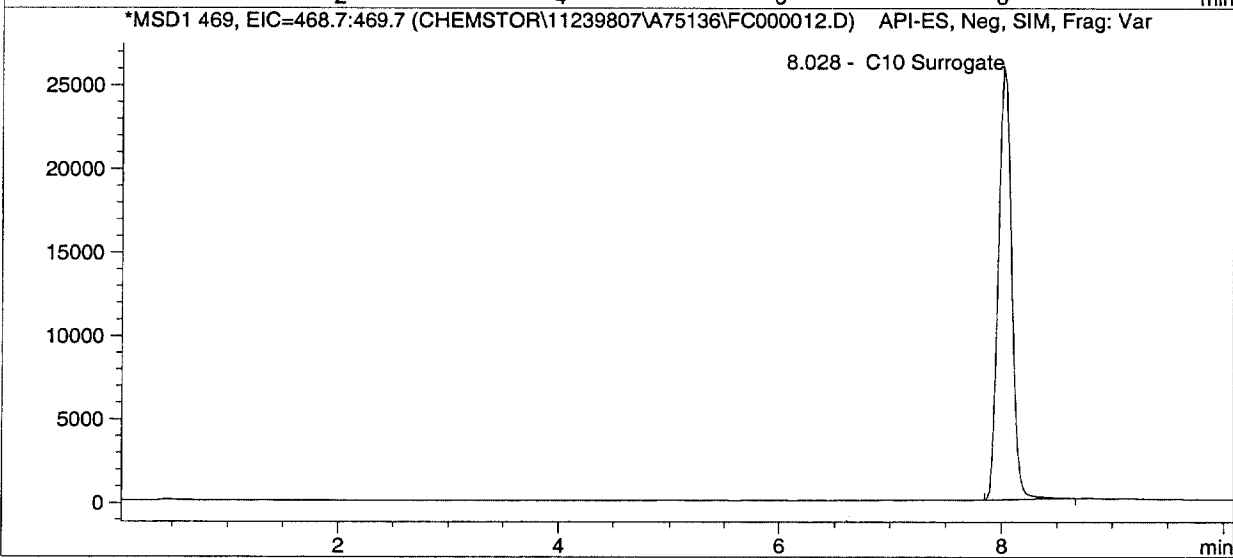
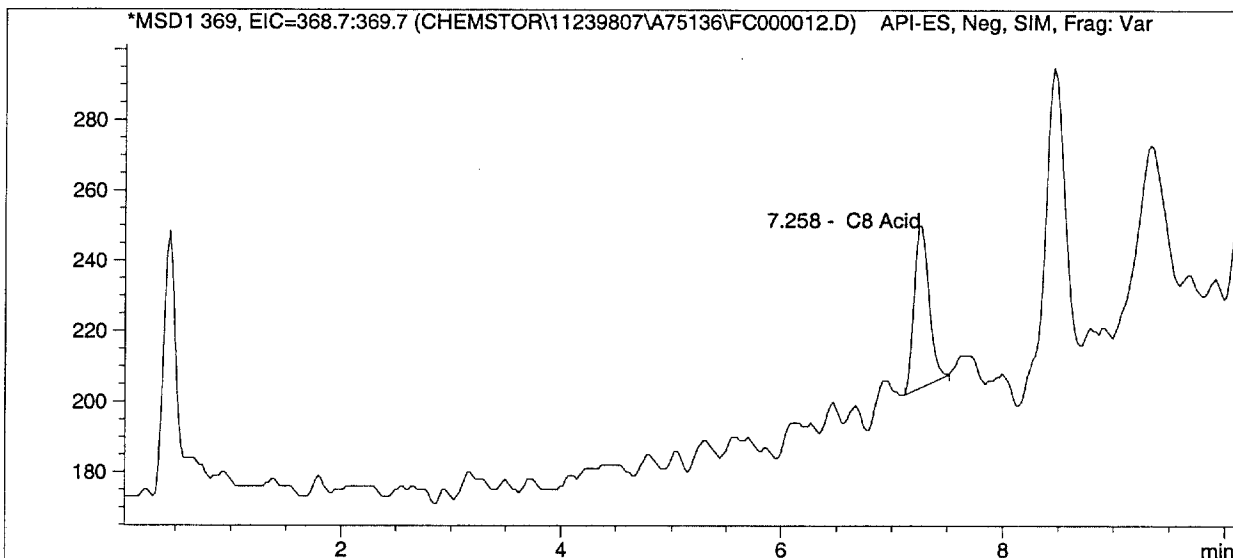
Data file :C:\HPCHEM\1\DATA\Chemstor\11239807\A75136\FC000012.D

=====

Injection Date	: 11/17/03	7:54:41 PM	Seq Line	:	12
Acq Operator	: jmillier		Vial No.	:	13
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
8 Acid	0.00	7.258	423	MSD1 369, EIC=368.7:369.7
10 Surrogat	385.38	8.028	215328	MSD1 469, EIC=468.7:469.7

*** End of Report ***

0031

Sample Name:L0001277-1

Sample Info:

1

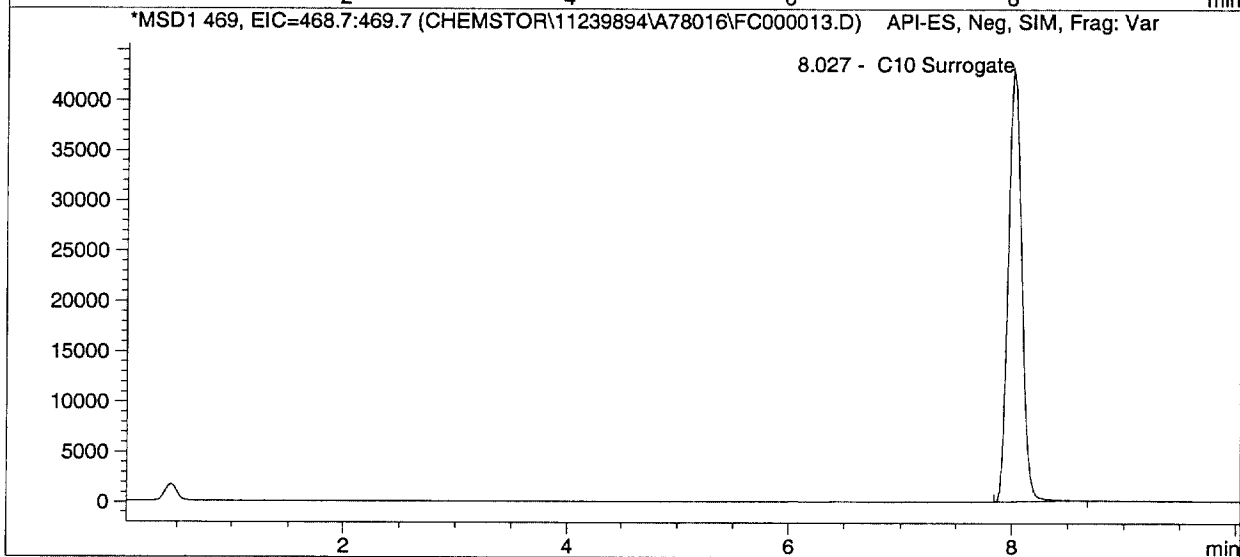
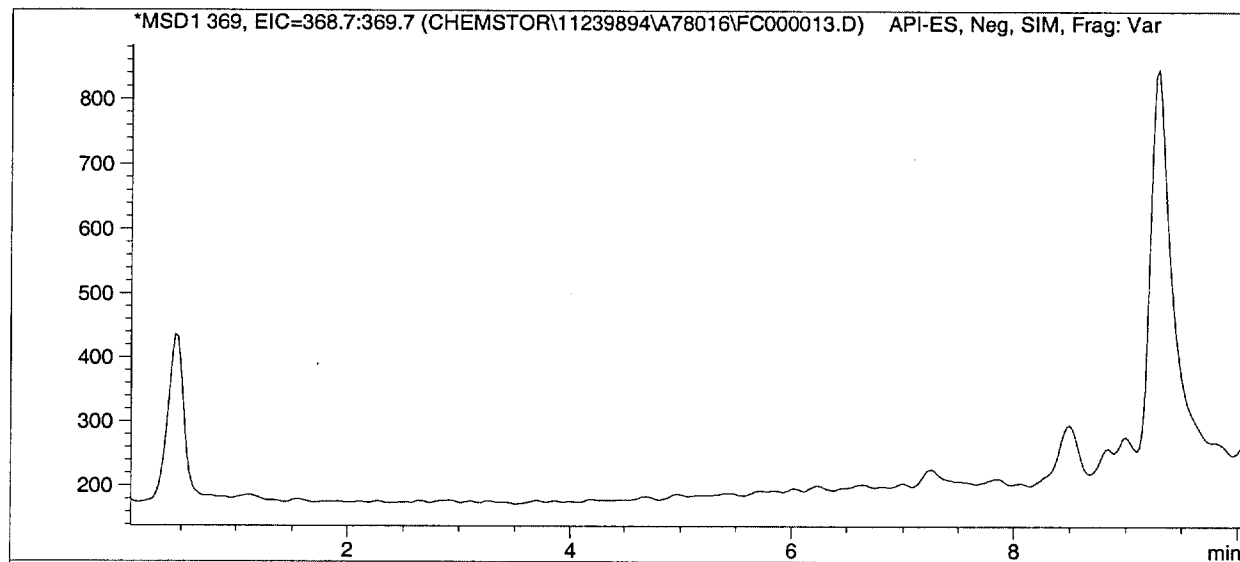
Data file :C:\HPCHEM\1\DATA\Chemstor\11239894\A78016\FC000013.D

=====

Injection Date	: 11/17/03	8:10:16 PM	Seq Line	:	13
Acq Operator	: jmillier		Vial No.	:	14
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
3 Acid	0.00	0.000	0	MSD1 369, EIC=368.7:369.7
10 Surrogat	663.10	8.027	358705	MSD1 469, EIC=468.7:469.7

*** End of Report ***

0032

Sample Name:L0001277-2

Sample Info:

1

Data file :C:\HPCHEM\1\DATA\Chemstor\11239980\A80704\FC000014.D

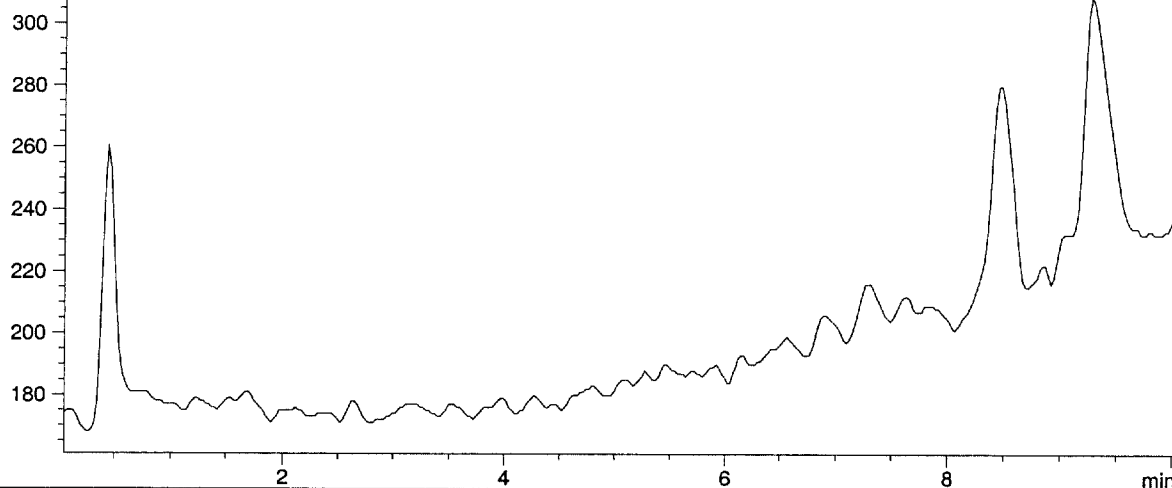
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Injection Date	: 11/17/03	8:25:51 PM	Seq Line	:	14
Acq Operator	: jmillier		Vial No.	:	15
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

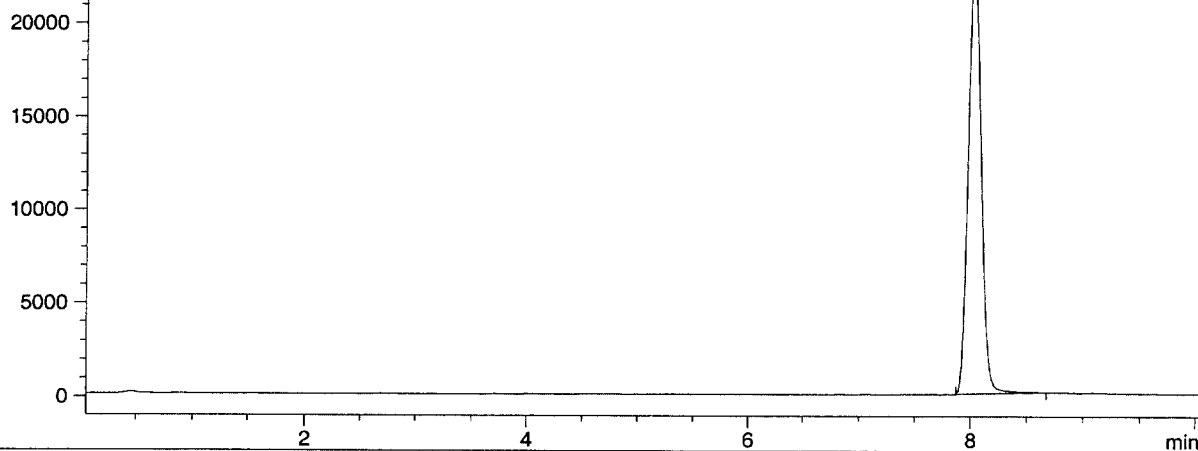
LC/MS analysis of perfluorooctanoic acid.

*MSD1 369, EIC=368.7:369.7 (CHEMSTOR\11239980\A80704\FC000014.D) API-ES, Neg, SIM, Frag: Var



*MSD1 469, EIC=468.7:469.7 (CHEMSTOR\11239980\A80704\FC000014.D) API-ES, Neg, SIM, Frag: Var

8.034 - C10 Surrogate



Compound	Amount (ng/mL)	R.T.	Area	Signal
8 Acid	0.00	0.000	0	MSD1 369, EIC=368.7:369.7
10 Surrogat	345.43	8.034	194702	MSD1 469, EIC=468.7:469.7

*** End of Report ***

0033

Sample Name:L0001277-3

Sample Info:

1

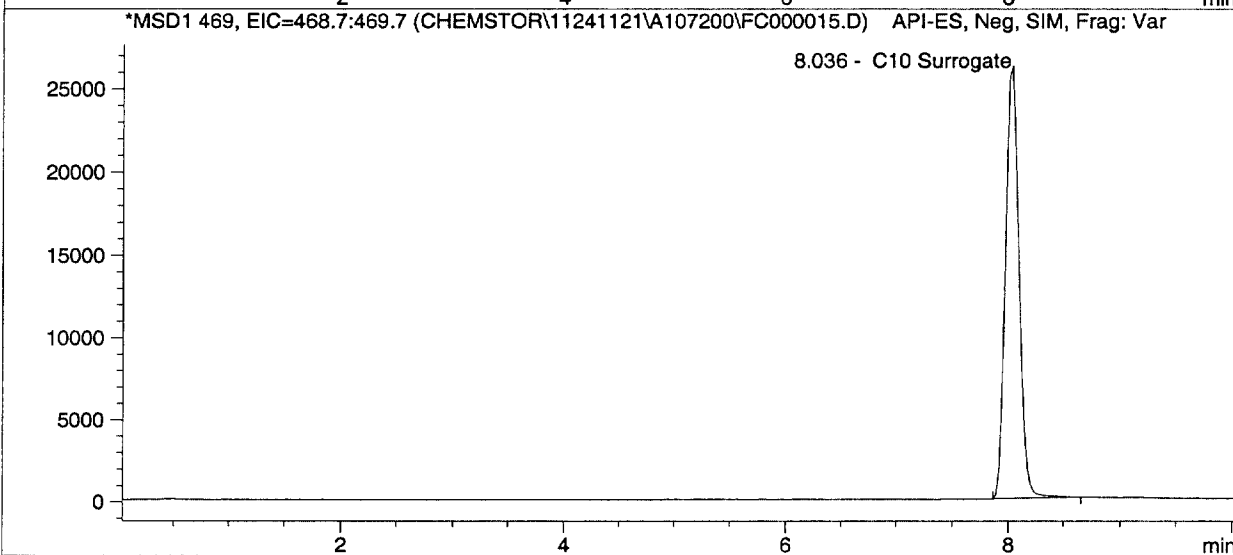
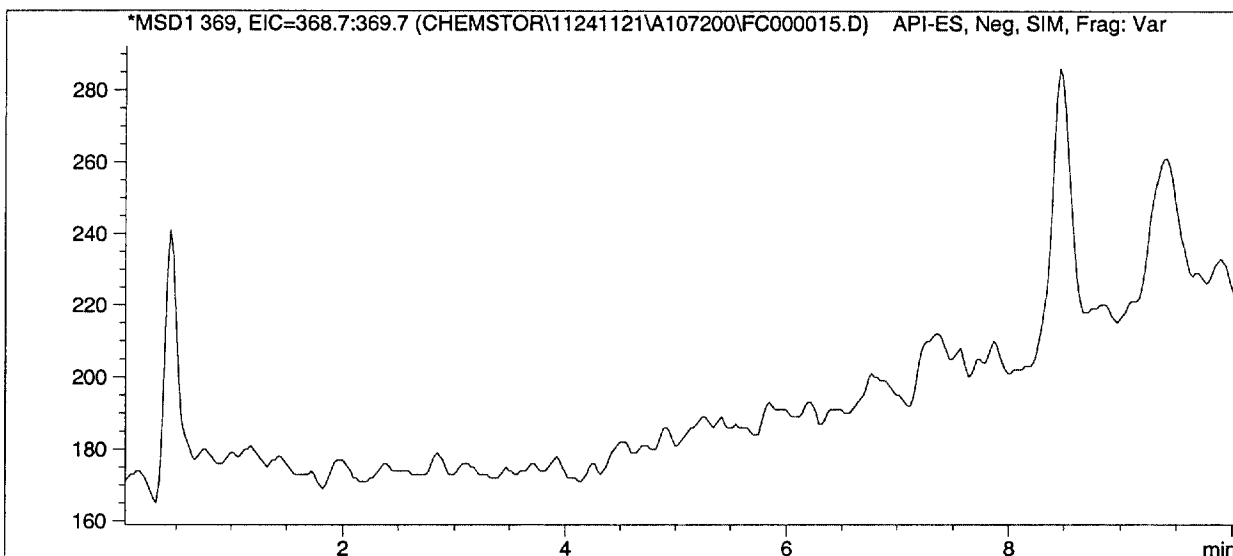
Data file :C:\HPCHEM\1\DATA\Chemstor\11241121\A107200\FC000015.D

=====

Injection Date	: 11/17/03	8:41:30 PM	Seq Line	:	15
Acq Operator	: jmillier		Vial No.	:	16
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
8 Acid	0.00	0.000	0	MSD1 369, EIC=368.7:369.7
10 Surrogat	393.12	8.036	219326	MSD1 469, EIC=468.7:469.7

*** End of Report ***

0034

Sample Name:L0001277-4

Sample Info:

1

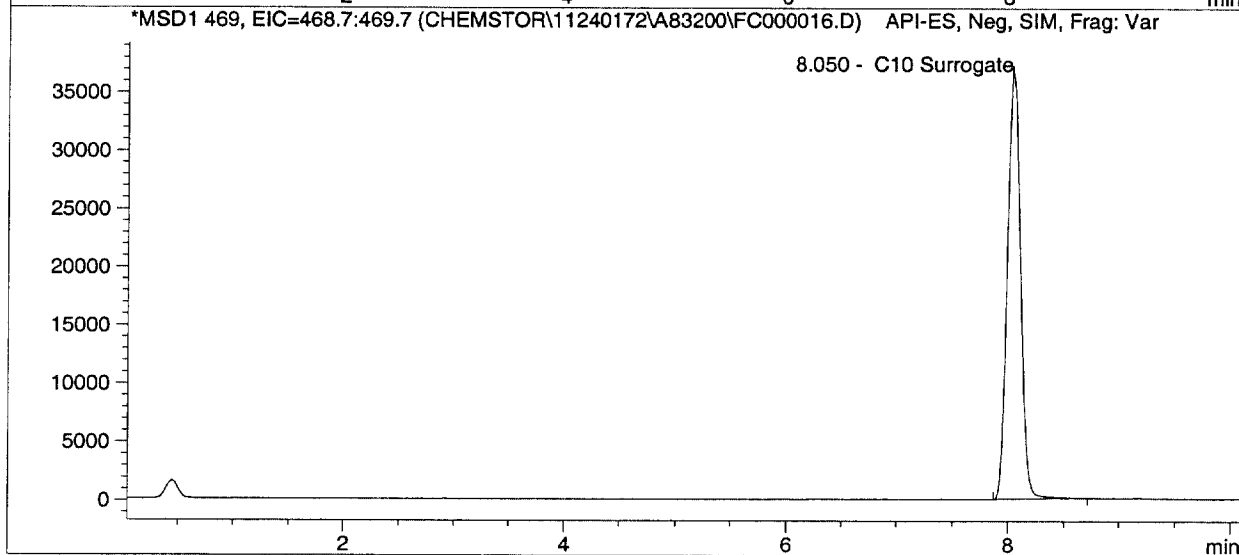
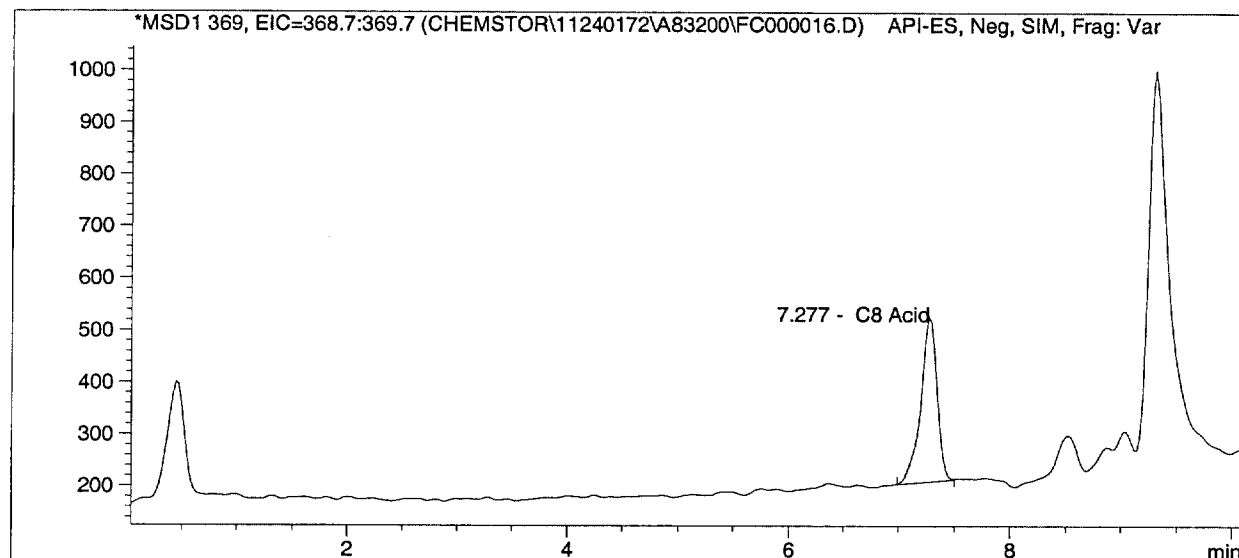
Data file :C:\HPCHEM\1\DATA\Chemstor\11240172\A83200\FC000016.D

=====

Injection Date	: 11/17/03	8:57:08 PM	Seq Line	:	16
Acq Operator	: jmillier		Vial No.	:	17
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
8 Acid	0.00	7.277	3198	MSD1 369, EIC=368.7:369.7
10 Surrogat	561.20	8.050	306099	MSD1 469, EIC=468.7:469.7

*** End of Report ***

U035

Sample Name:L0001277-5

Sample Info:

1

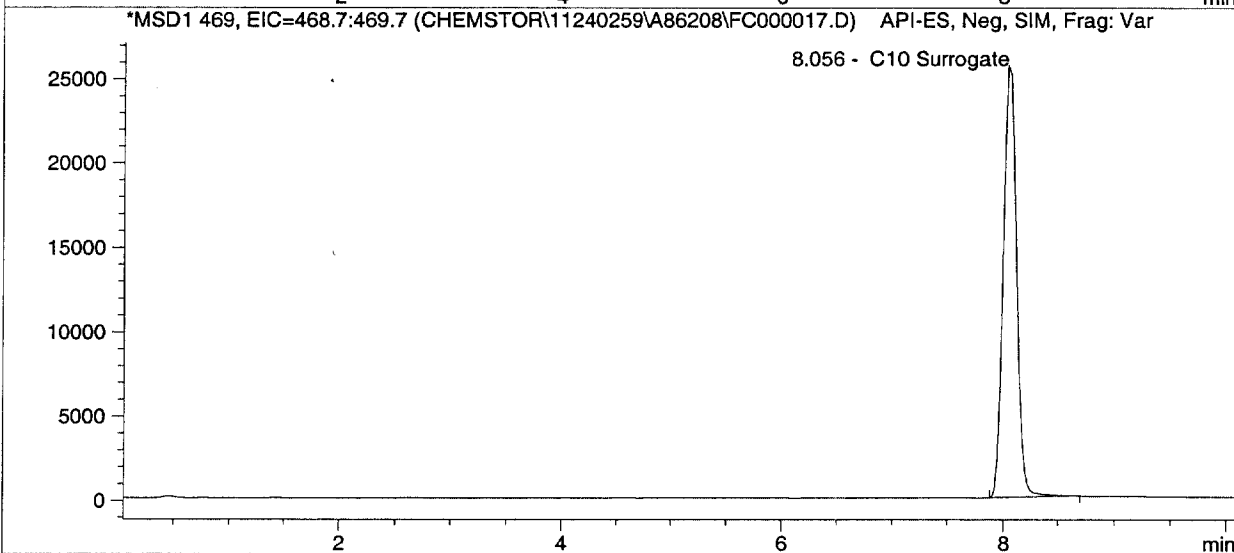
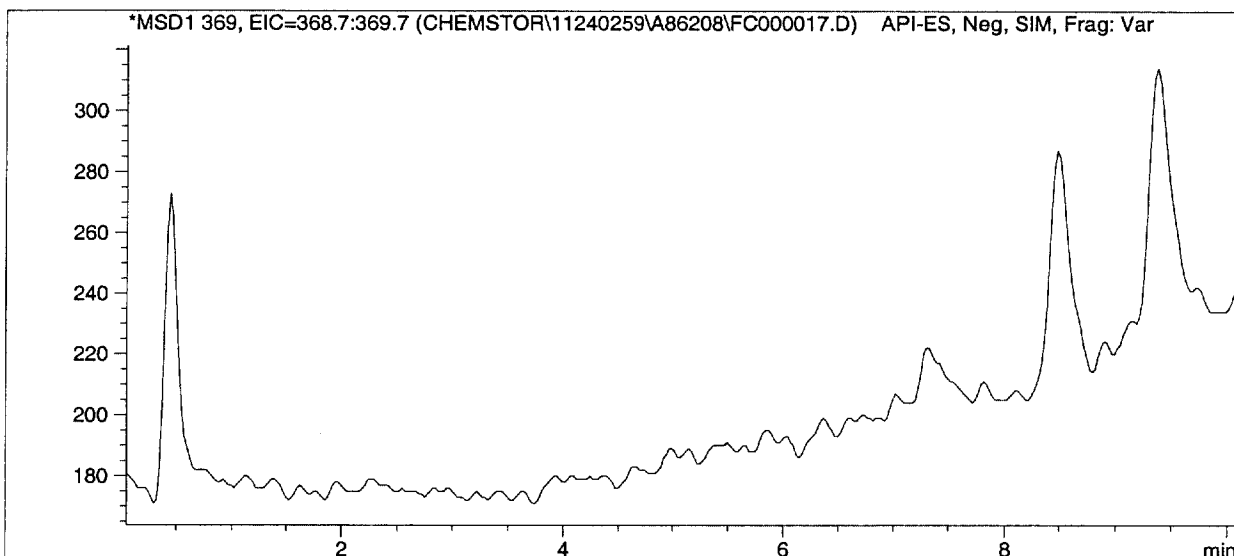
Data file :C:\HPCHEM\1\DATA\Chemstor\11240259\A86208\FC000017.D

=====

Injection Date	: 11/17/03	9:12:46 PM	Seq Line	:	17
Acq Operator	: jmillier		Vial No.	:	18
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
8 Acid	0.00	0.000	0	MSD1 369, EIC=368.7:369.7
10 Surrogat	384.05	8.056	214641	MSD1 469, EIC=468.7:469.7

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*** End of Report ***

0036

Sample Name:L0001277-6

Sample Info:

1

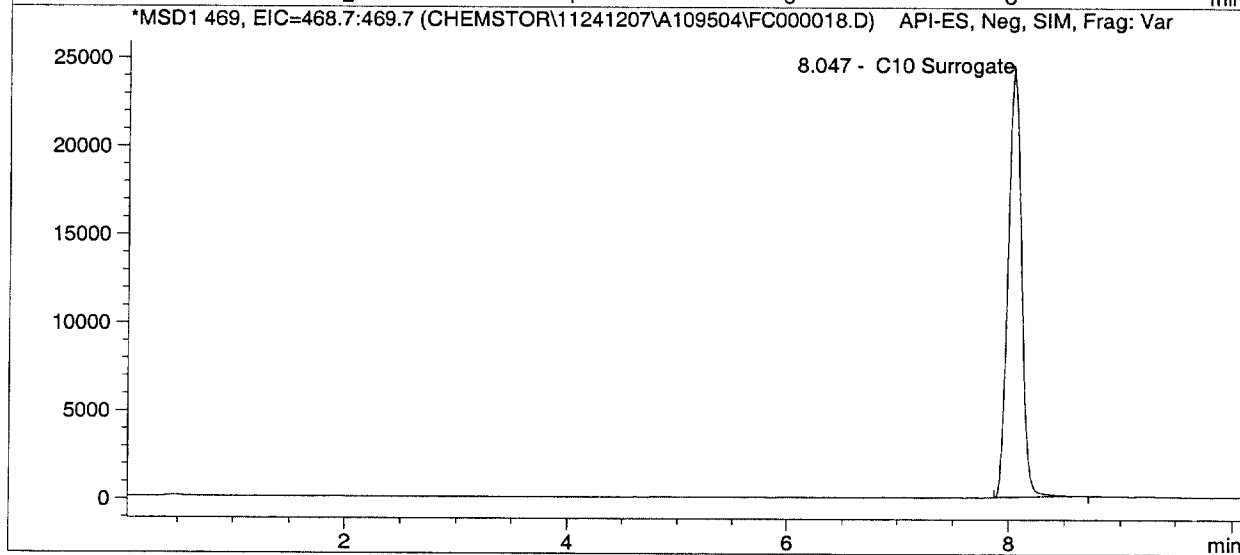
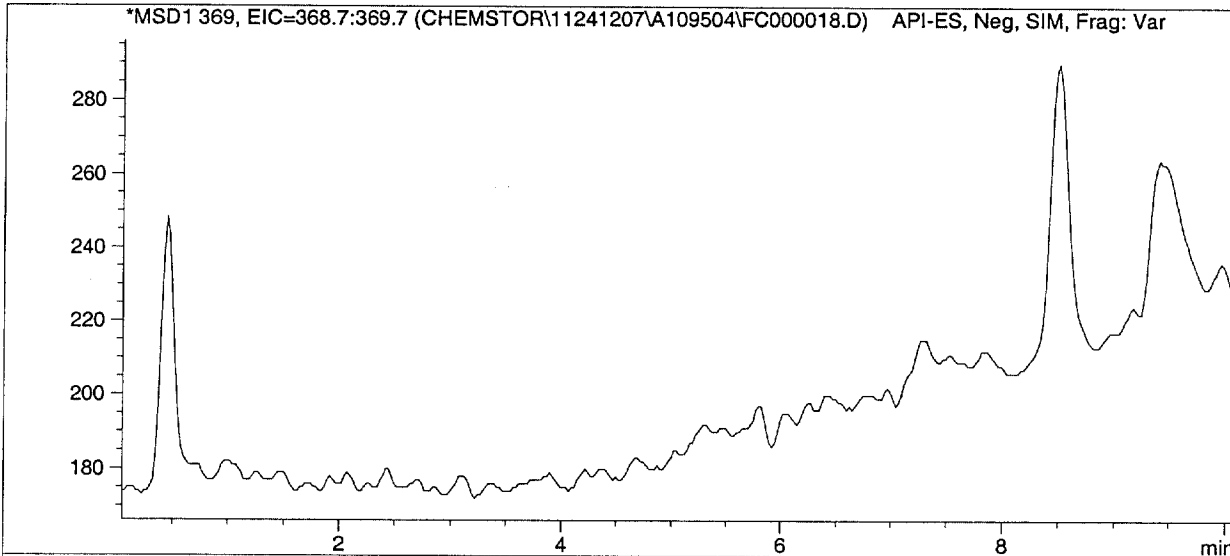
Data file :C:\HPCHEM\1\DATA\Chemstor\11241207\A109504\FC000018.D

=====

Injection Date	: 11/17/03	9:28:24 PM	Seq Line	:	18
Acq Operator	: jmillier		Vial No.	:	19
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
8 Acid	0.00	0.000	0	MSD1 369, EIC=368.7:369.7
10 Surrogat	358.95	8.047	201686	MSD1 469, EIC=468.7:469.7

=====
*** End of Report ***

0037

Sample Name:L0001277-7

Sample Info:

1

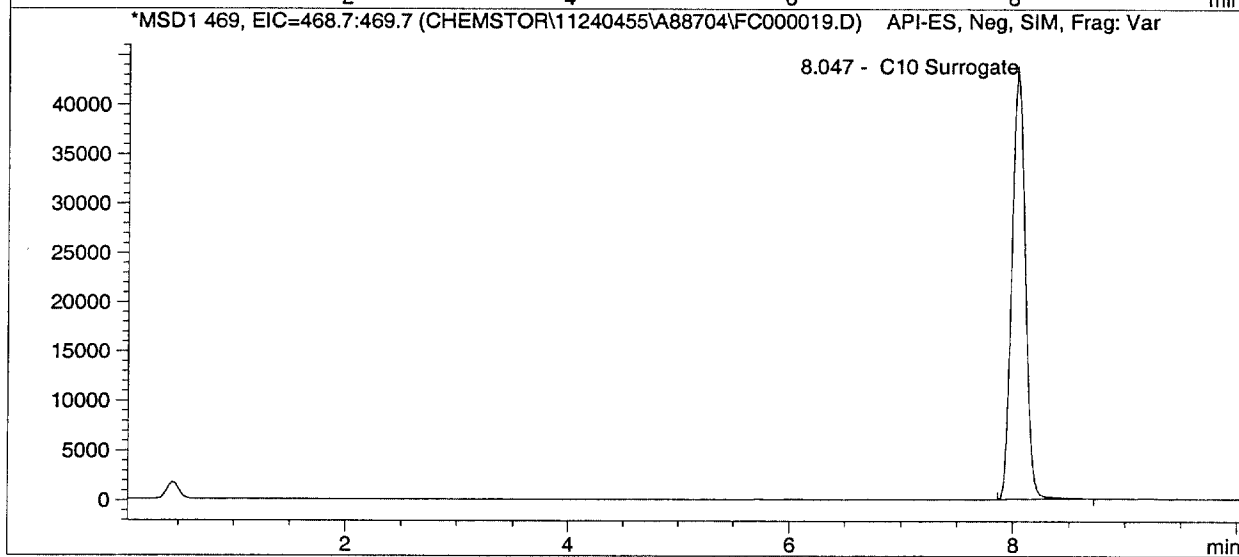
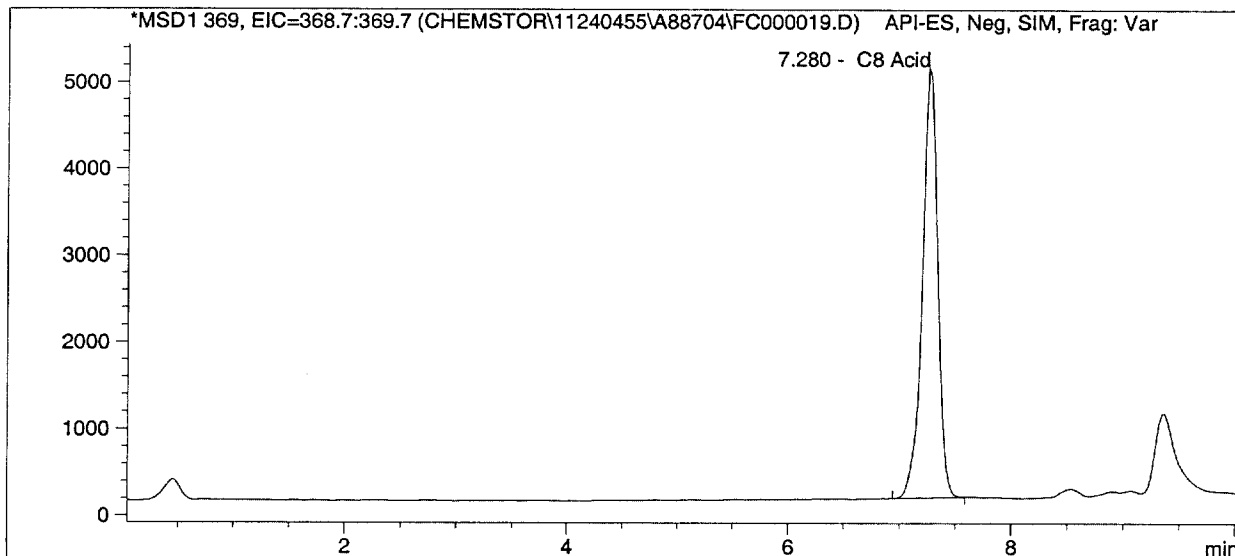
Data file :C:\HPCHEM\1\DATA\Chemstor\11240455\A88704\FC000019.D

=====

Injection Date	: 11/17/03	9:44:00 PM	Seq Line	:	19
Acq Operator	: jmillier		Vial No.	:	20
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
8 Acid	100.51	7.280	47465	MSD1 369, EIC=368.7:369.7
10 Surrogat	668.26	8.047	361371	MSD1 469, EIC=468.7:469.7

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*** End of Report ***

0038

Sample Name:STD 500 ppb

Sample Info:

1

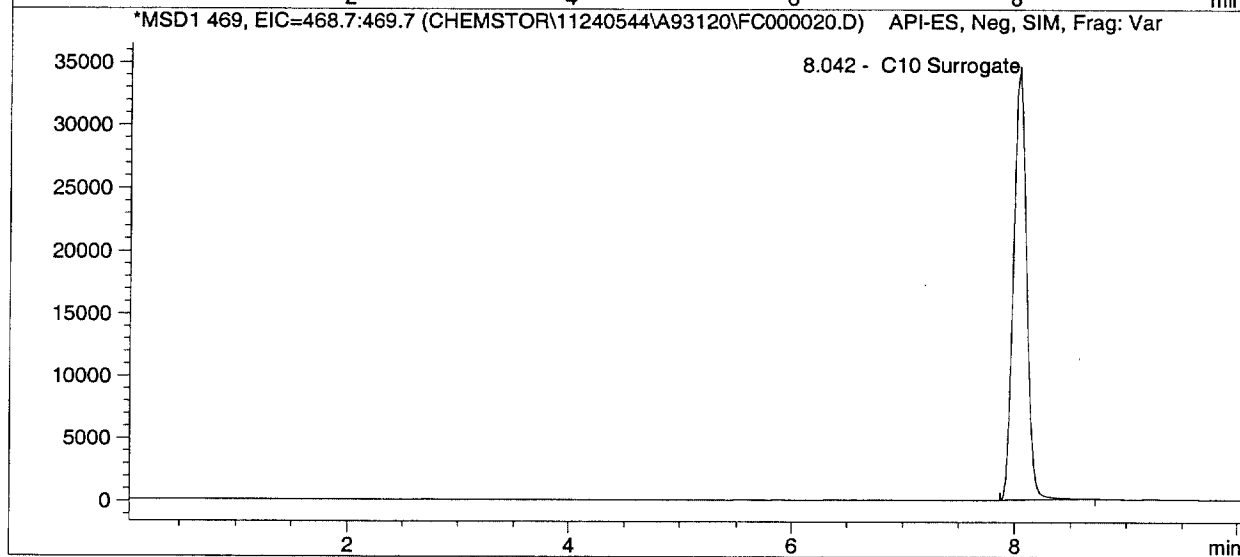
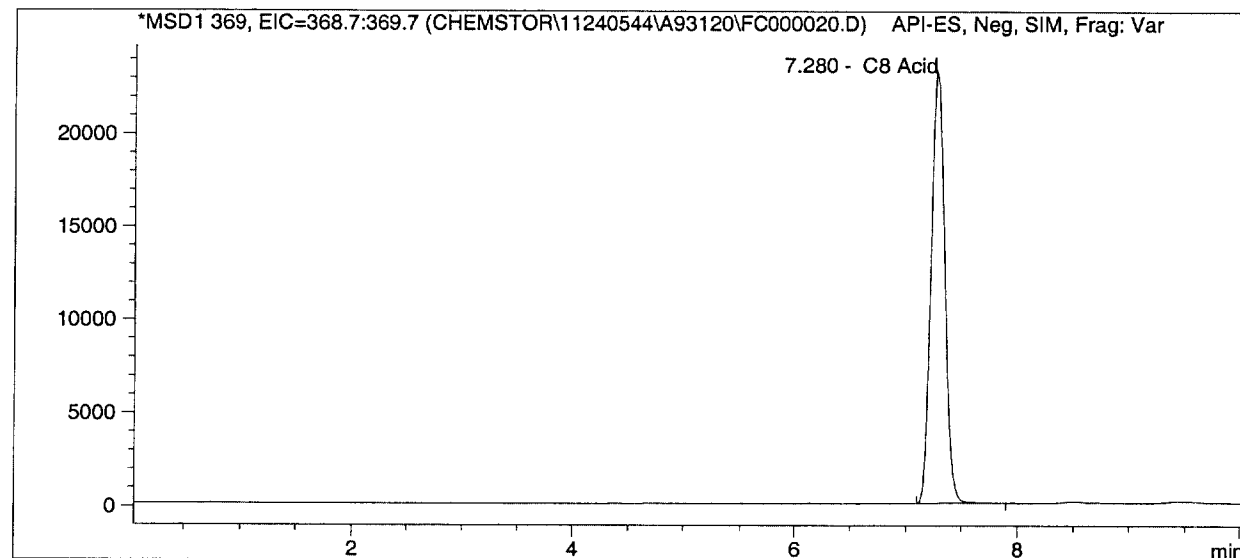
Data file :C:\HPCHEM\1\DATA\Chemstor\11240544\A93120\FC000020.D

=====

Injection Date	: 11/17/03	9:59:36 PM	Seq Line	:	20
Acq Operator	: jmillier		Vial No.	:	4
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
8 Acid	520.33	7.280	201399	MSD1 369, EIC=368.7:369.7
10 Surrogat	522.49	8.042	286112	MSD1 469, EIC=468.7:469.7

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*** End of Report ***

0039

Sample Name: Solvent blank

Sample Info:

1

Data file : C:\HPCHEM\1\DATA\Chemstor\11240630\A95488\FC000021.D

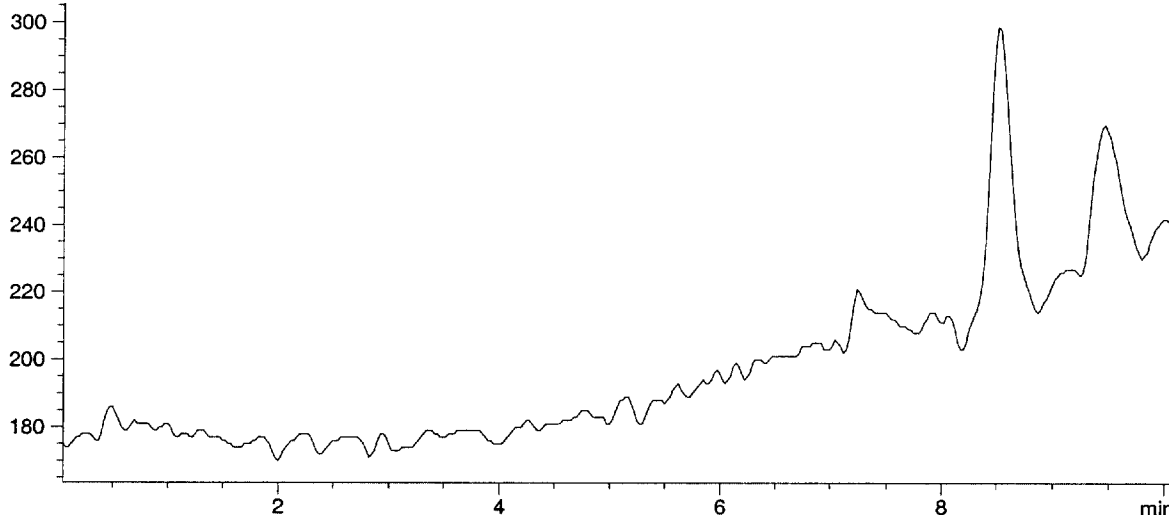
=====

Injection Date	: 11/17/03	10:15:04 PM	Seq Line	:	21
Acq Operator	: jmillier		Vial No.	:	92
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

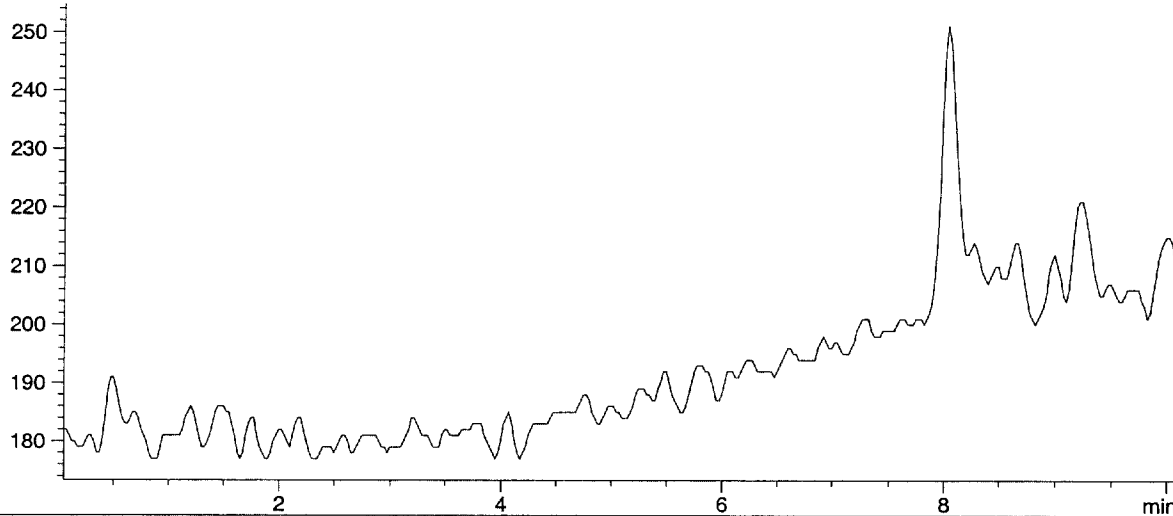
Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.

*MSD1 369, EIC=368.7:369.7 (CHEMSTOR\11240630\A95488\FC000021.D) API-ES, Neg, SIM, Frag: Var



*MSD1 469, EIC=468.7:469.7 (CHEMSTOR\11240630\A95488\FC000021.D) API-ES, Neg, SIM, Frag: Var



Compound	Amount (ng/mL)	R.T.	Area	Signal
8 Acid	0.00	0.000	0	MSD1 369, EIC=368.7:369.7
10 Surrogat	0.00	0.000	0	MSD1 469, EIC=468.7:469.7

=====
*** End of Report ***

0040

Sample Name:L0001277-8

Sample Info:

1

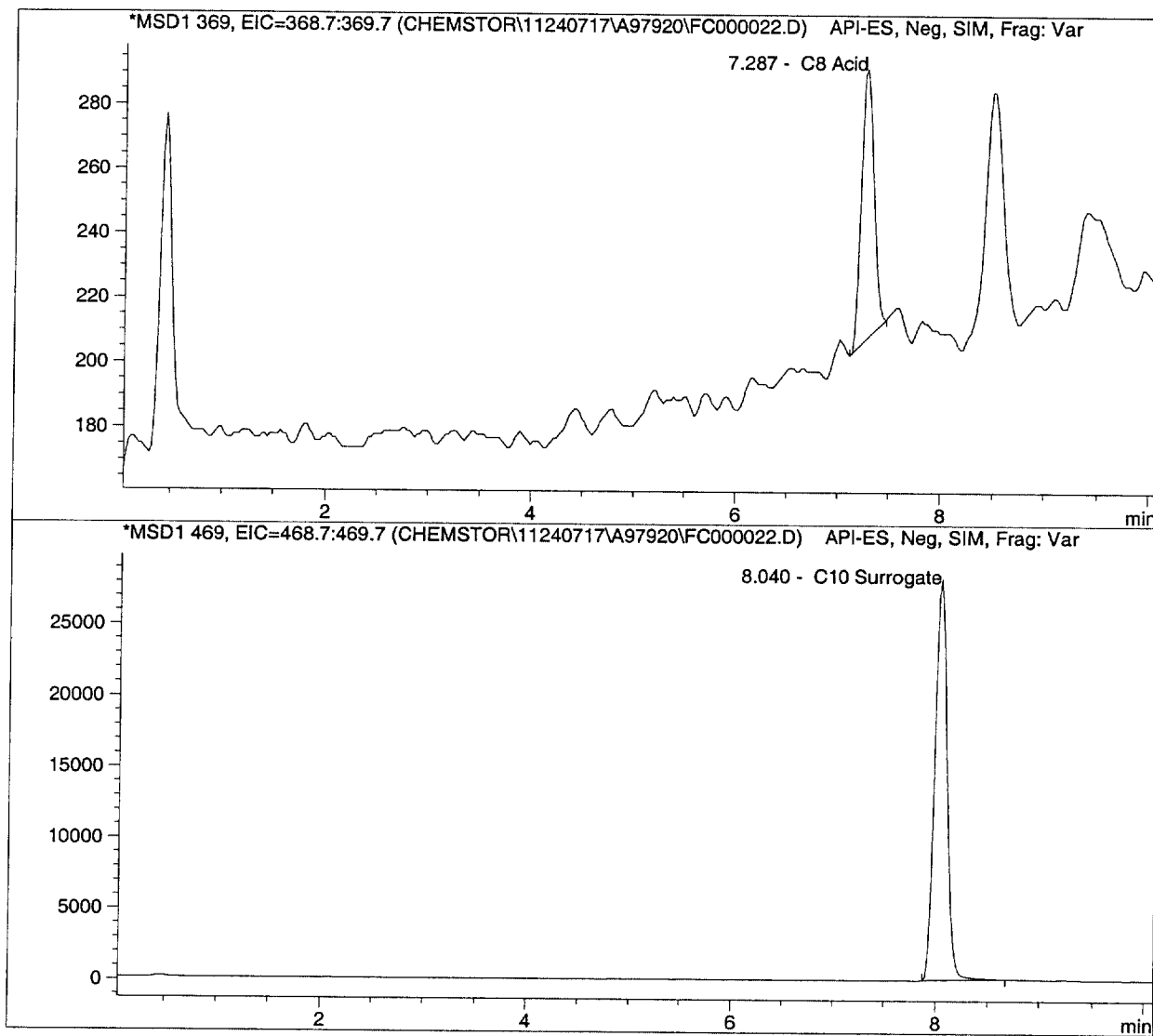
Data file :C:\HPCHEM\1\DATA\Chemstor\11240717\A97920\FC000022.D

=====

Injection Date	: 11/17/03	10:30:34 PM	Seq Line	:	22
Acq Operator	: jmillier		Vial No.	:	21
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
8 Acid	0.00	7.287	706	MSD1 369, EIC=368.7:369.7
10 Surrogat	422.67	8.040	234578	MSD1 469, EIC=468.7:469.7

*** End of Report ***

0041

Sample Name:L0001277-9

Sample Info:

1

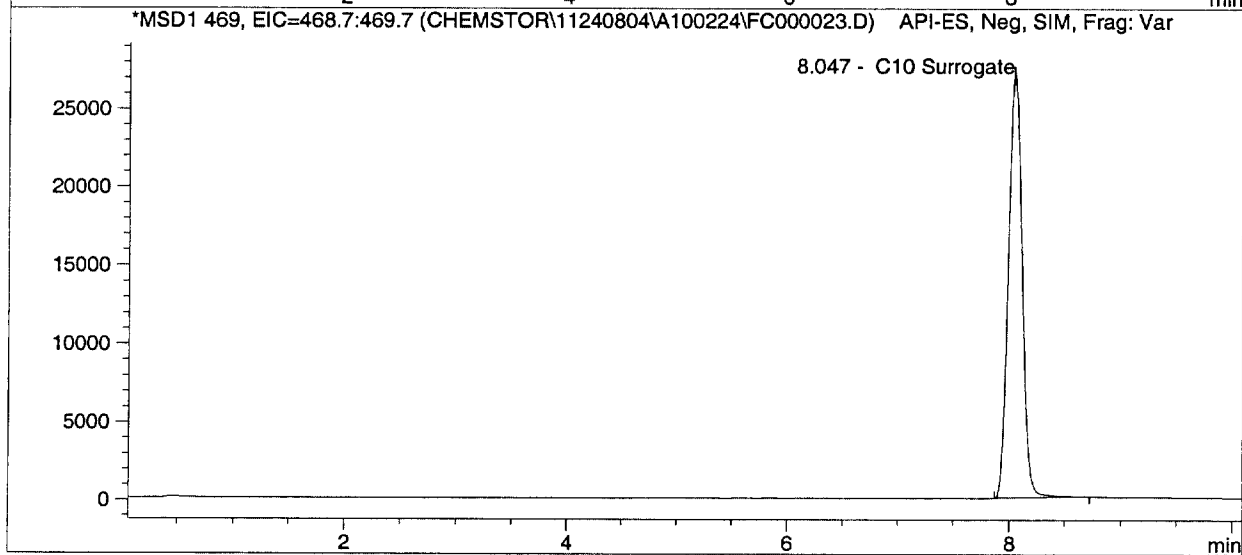
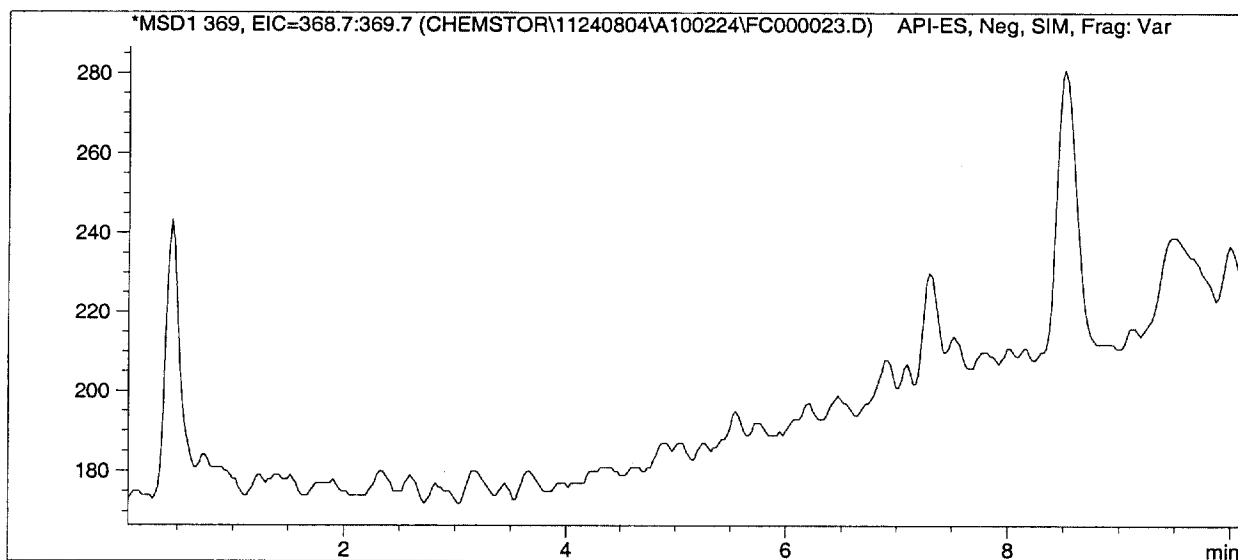
Data file :C:\HPCHEM\1\DATA\Chemstor\11240804\A100224\FC000023.D

=====

Injection Date	: 11/17/03	10:46:05 PM	Seq Line	:	23
Acq Operator	: jmillier		Vial No.	:	22
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
8 Acid	0.00	0.000	0	MSD1 369, EIC=368.7:369.7
10 Surrogat	411.43	8.047	228775	MSD1 469, EIC=468.7:469.7

*** End of Report ***

0042

Sample Name:L0001277-10

Sample Info:

1

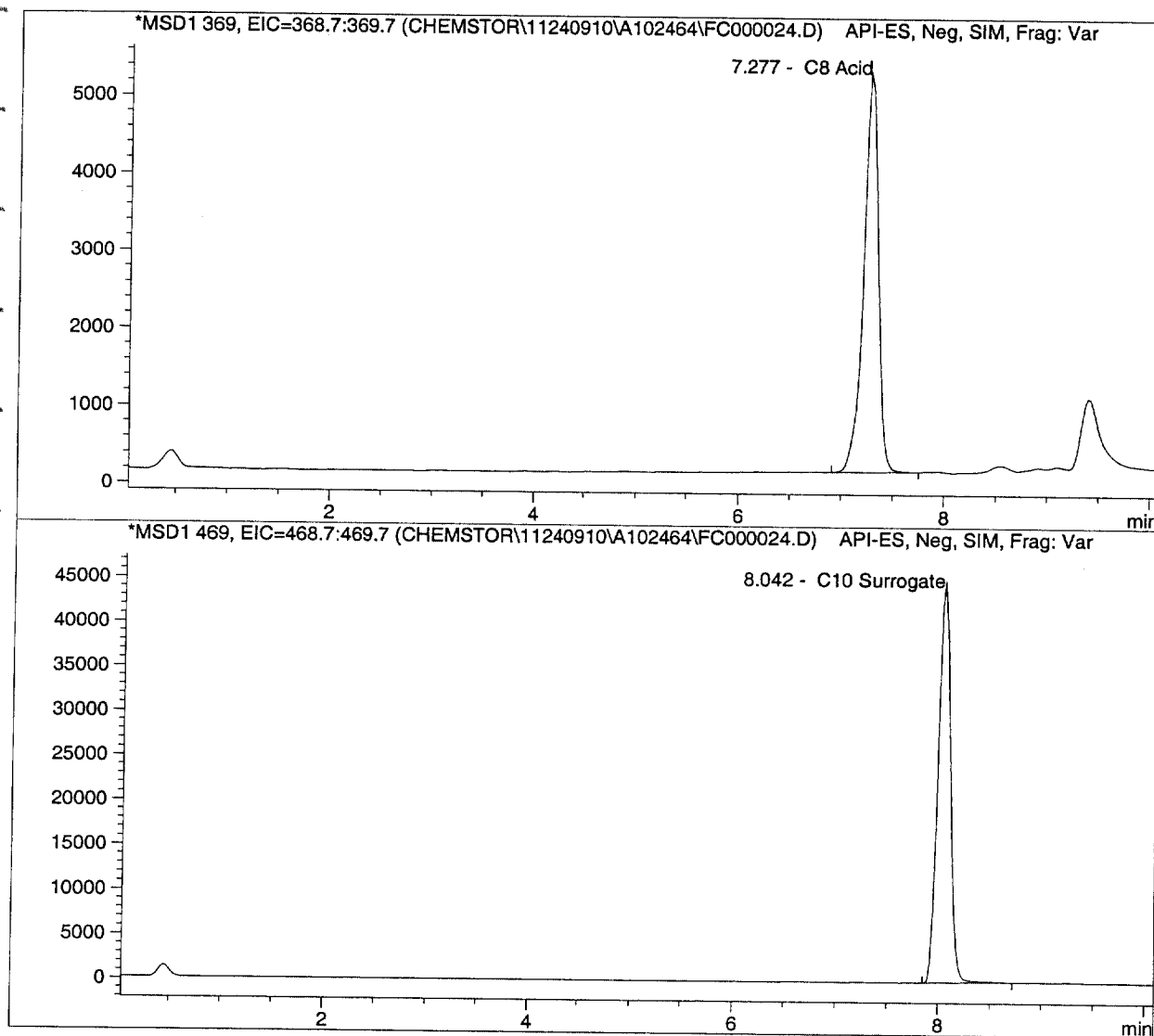
Data file :C:\HPCHEM\1\DATA\Chemstor\11240910\A102464\FC000024.D

=====

Injection Date	: 11/17/03	11:01:41 PM	Seq Line	:	24
Acq Operator	: jmillier		Vial No.	:	23
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
8 Acid	105.39	7.277	49256	MSD1 369, EIC=368.7:369.7
10 Surrogat	690.57	8.042	372888	MSD1 469, EIC=468.7:469.7

*** End of Report ***

0043

Sample Name:L0001277-11

Sample Info:

1

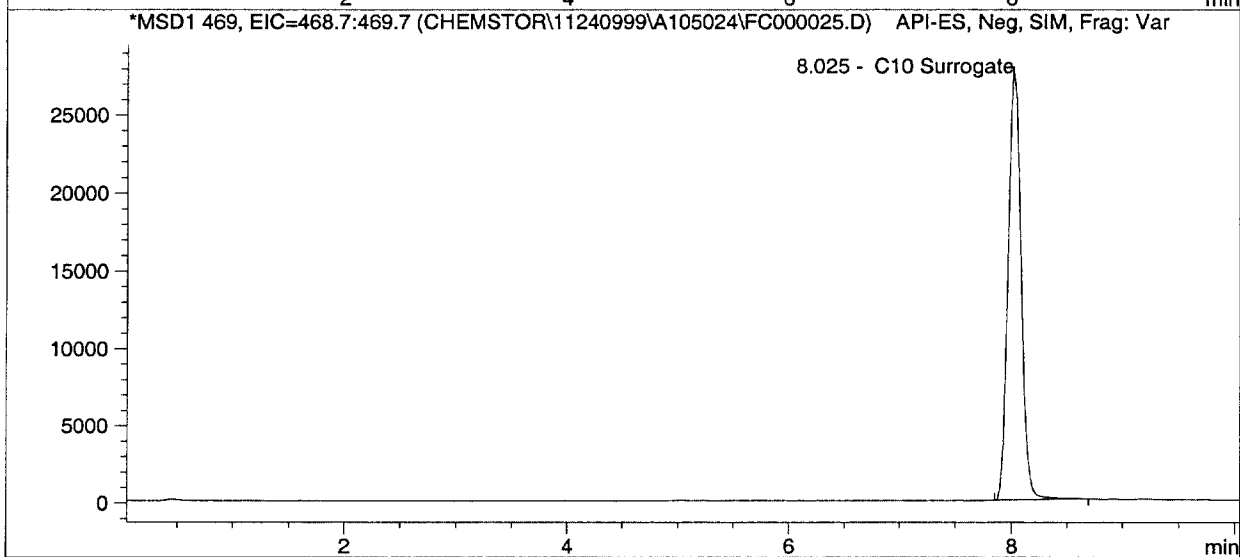
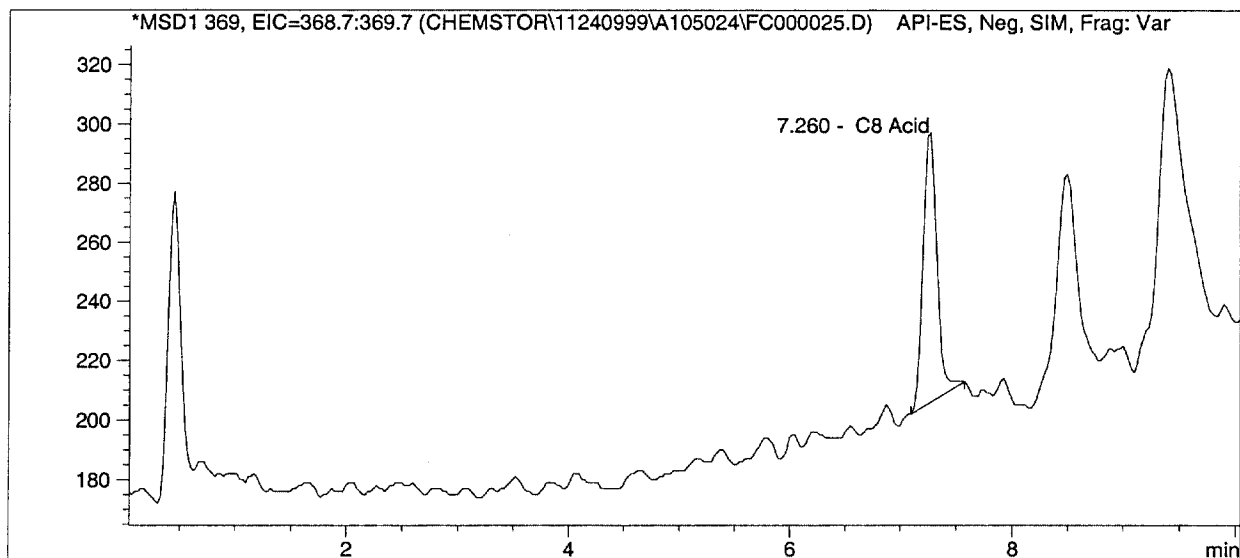
Data file :C:\HPCHEM\1\DATA\Chemstor\11240999\A105024\FC000025.D

=====

Injection Date	: 11/17/03	11:17:16 PM	Seq Line	:	25
Acq Operator	: jmillier		Vial No.	:	24
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
8 Acid	0.00	7.260	788	MSD1 369, EIC=368.7:369.7
10 Surrogat	416.87	8.025	231588	MSD1 469, EIC=468.7:469.7

*** End of Report ***

U044

Sample Name:L0001277-12

Sample Info:

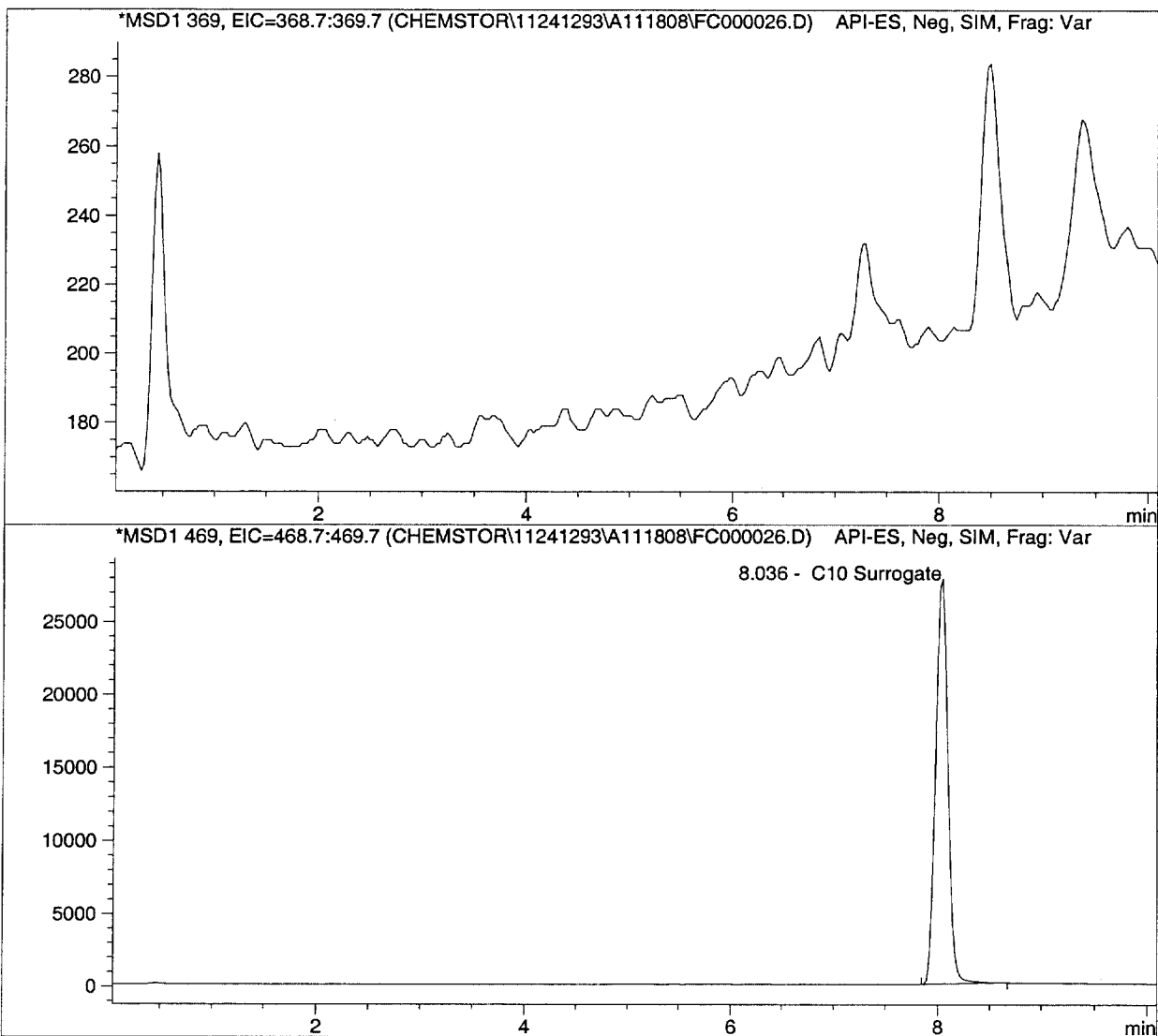
1

Data file :C:\HPCHEM\1\DATA\Chemstor\11241293\A111808\FC000026.D

=====
Injection Date : 11/17/03 11:32:53 PM Seq Line : 26
Acq Operator : jmillers Vial No. : 25
Instrument : PC00414 Inj. No. : 1
Dilution : 1 Inj. Vol. : 5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
8 Acid	0.00	0.000	0	MSD1 369, EIC=368.7:369.7
10 Surrogat	418.17	8.036	232258	MSD1 469, EIC=468.7:469.7

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*** End of Report ***

0045

Sample Name:L0001277-13

Sample Info:

1

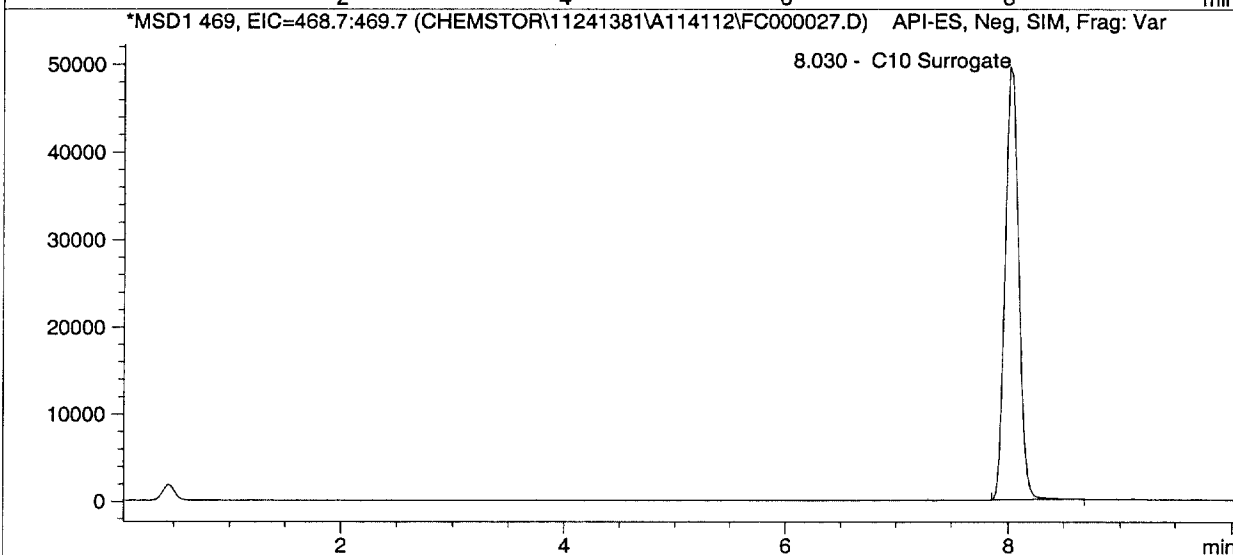
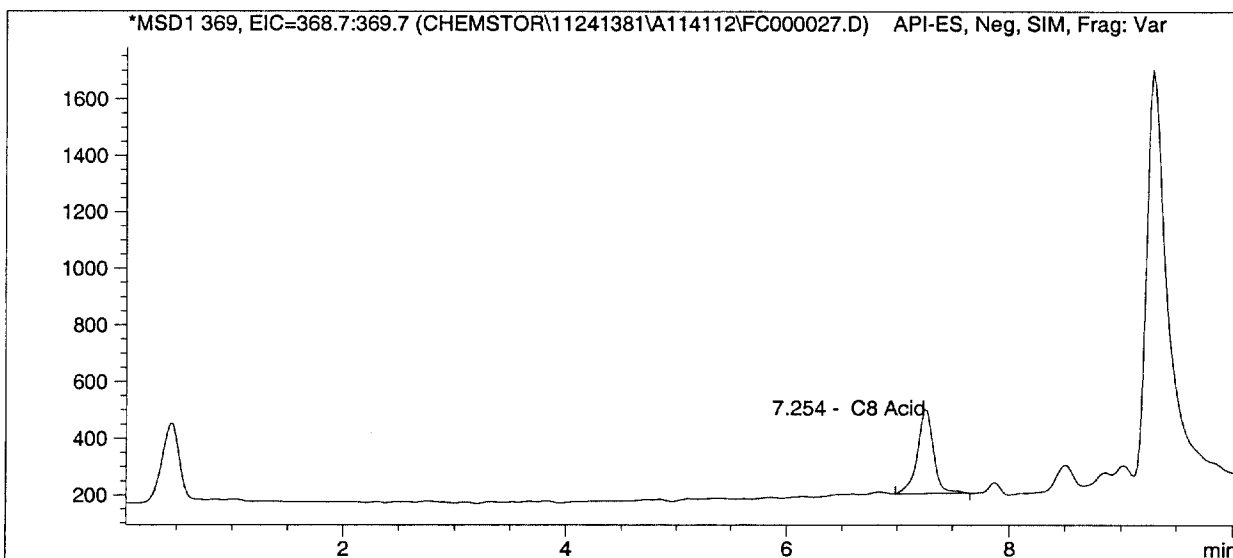
Data file :C:\HPCHEM\1\DATA\Chemstor\11241381\A114112\FC000027.D

=====

Injection Date	: 11/17/03	11:48:28 PM	Seq Line	:	27
Acq Operator	: jmillier		Vial No.	:	26
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
8 Acid	0.00	7.254	3012	MSD1 369, EIC=368.7:369.7
10 Surrogat	773.81	8.030	415861	MSD1 469, EIC=468.7:469.7

*** End of Report ***

0046

Sample Name:L0001277-14

Sample Info:

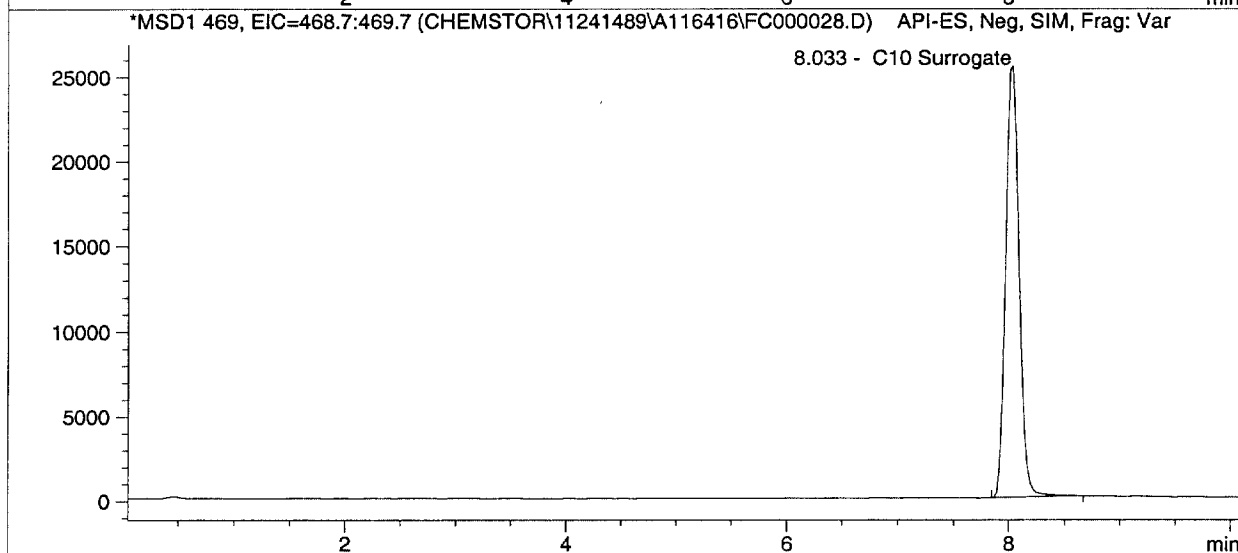
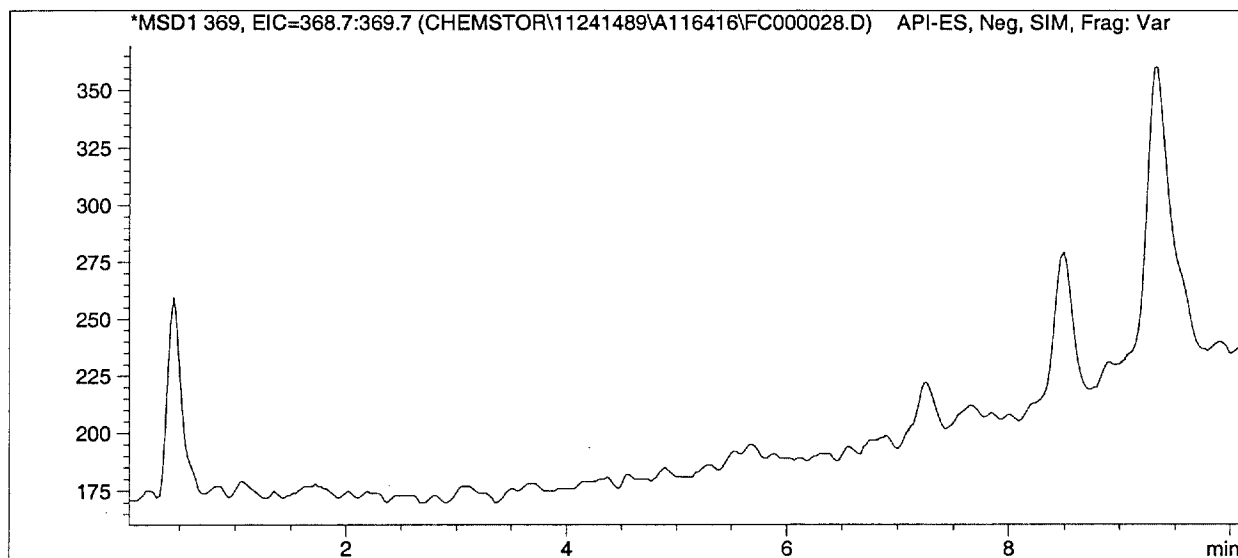
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Data file :C:\HPCHEM\1\DATA\Chemstor\11241489\A116416\FC000028.D

=====
Injection Date : 11/18/03 12:04:04 AM Seq Line : 28
Acq Operator : jmillar Vial No. : 27
Instrument : PC00414 Inj. No. : 1
Dilution : 1 Inj. Vol. : 5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
8 Acid	0.00	0.000	0	MSD1 369, EIC=368.7:369.7
10 Surrogat	384.24	8.033	214743	MSD1 469, EIC=468.7:469.7

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*** End of Report ***

0047

Sample Name:L0001277-15

Sample Info:

1

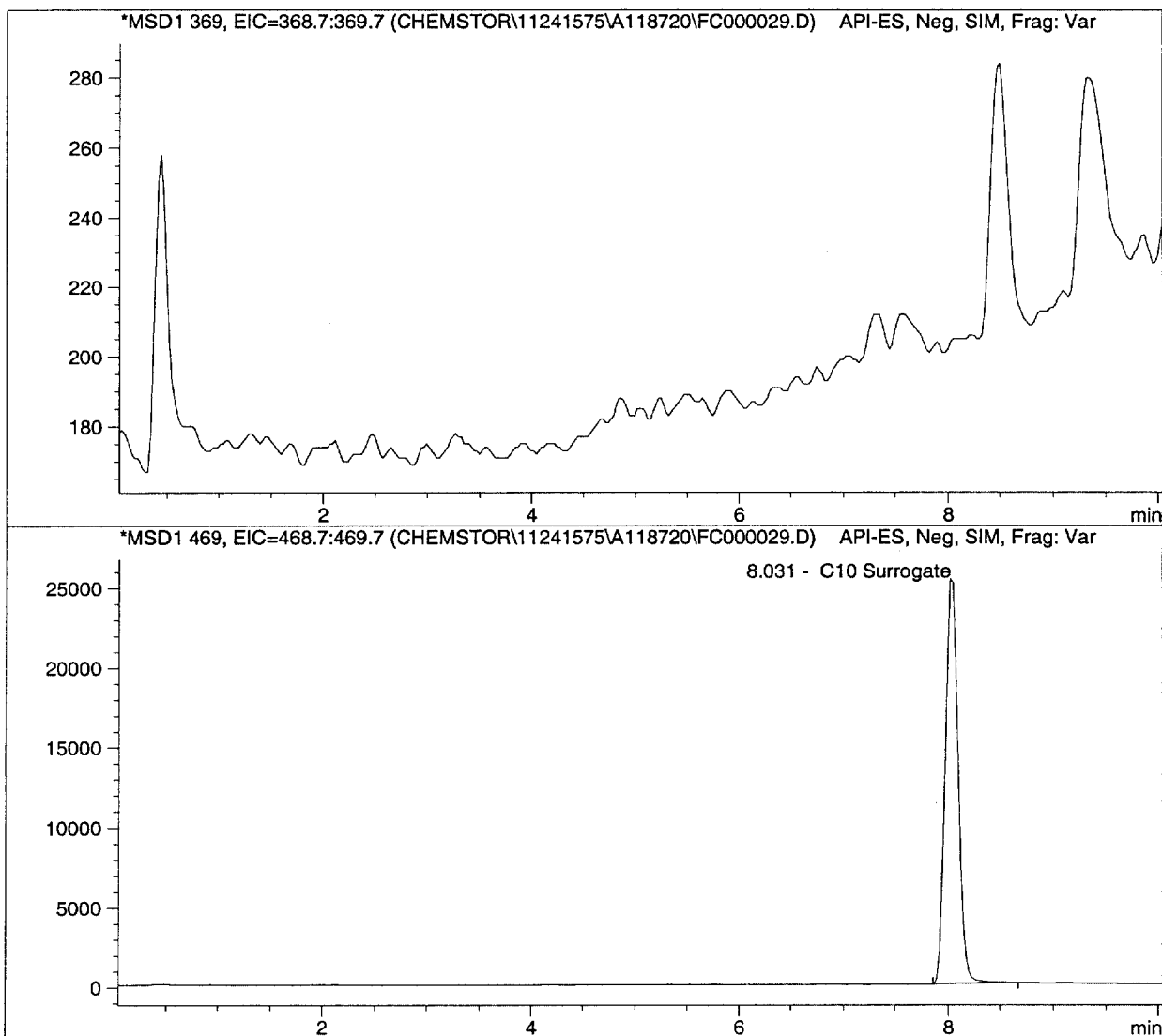
Data file :C:\HPCHEM\1\DATA\Chemstor\11241575\A118720\FC000029.D

=====

Injection Date	: 11/18/03	12:19:40 AM	Seq Line	:	29
Acq Operator	: jmillier		Vial No.	:	28
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
8 Acid	0.00	0.000	0	MSD1 369, EIC=368.7:369.7
10 Surrogat	381.84	8.031	213502	MSD1 469, EIC=468.7:469.7

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*** End of Report ***

0048

Sample Name:L0001277-16

Sample Info:

1

Data file :C:\HPCHEM\1\DATA\Chemstor\11241687\A120896\FC000030.D

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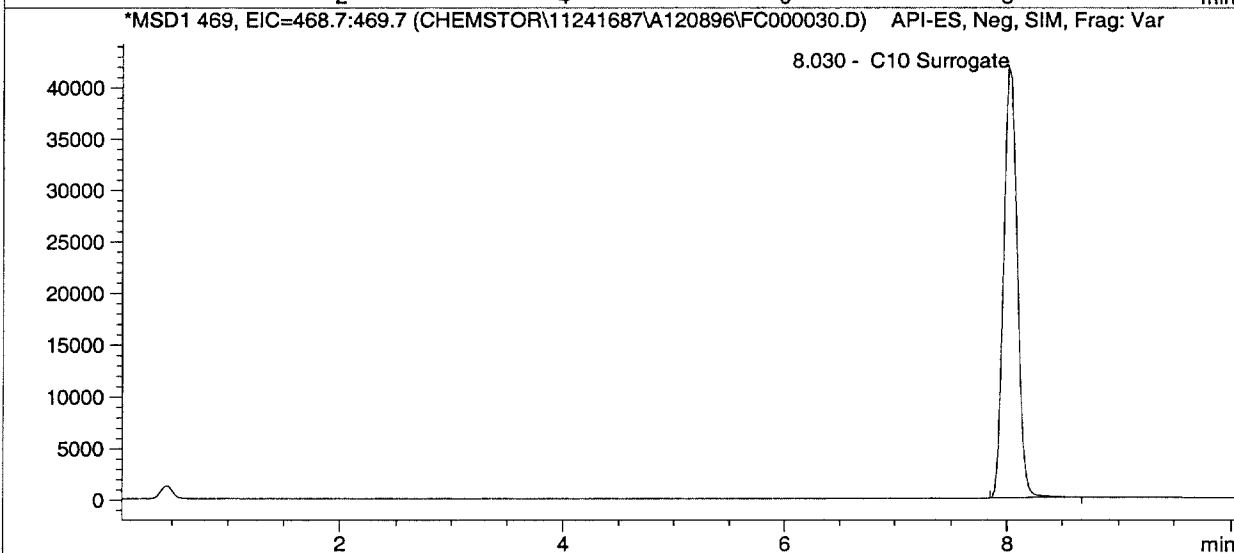
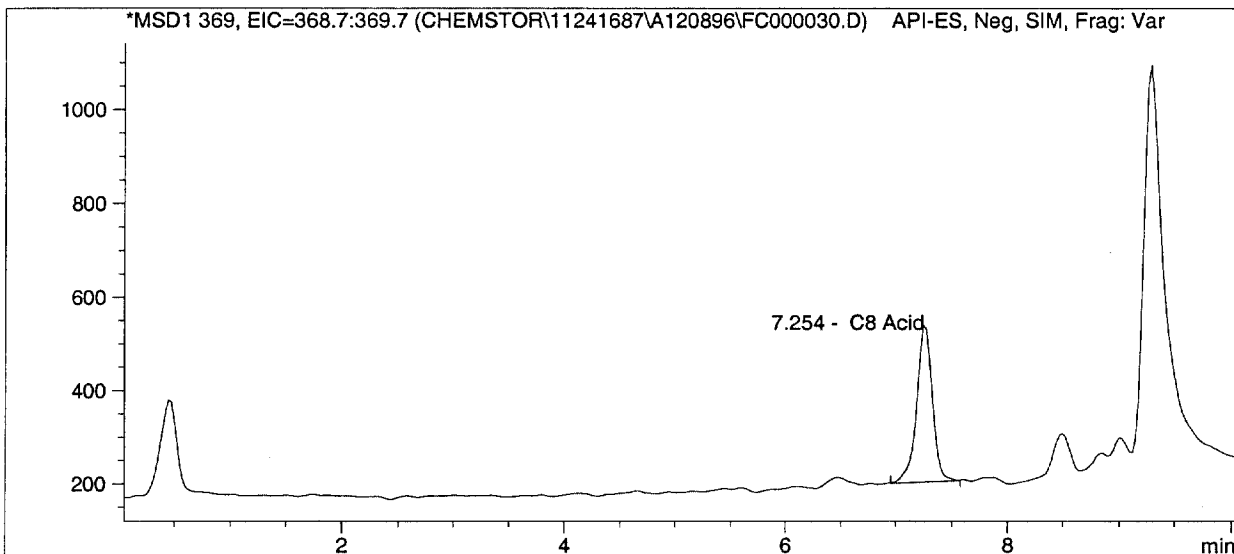
Injection Date	: 11/18/03	12:35:16 AM	Seq Line	:	30
Acq Operator	: jmillier		Vial No.	:	29
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M

Analysis Method : C:\HPCHEM\1\METHODS\111703.M

Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
8 Acid	0.00	7.254	3244	MSD1 369, EIC=368.7:369.7
10 Surrogat	643.49	8.030	348580	MSD1 469, EIC=468.7:469.7

*** End of Report ***

0049

Sample Name:L0001277-17

Sample Info:

1

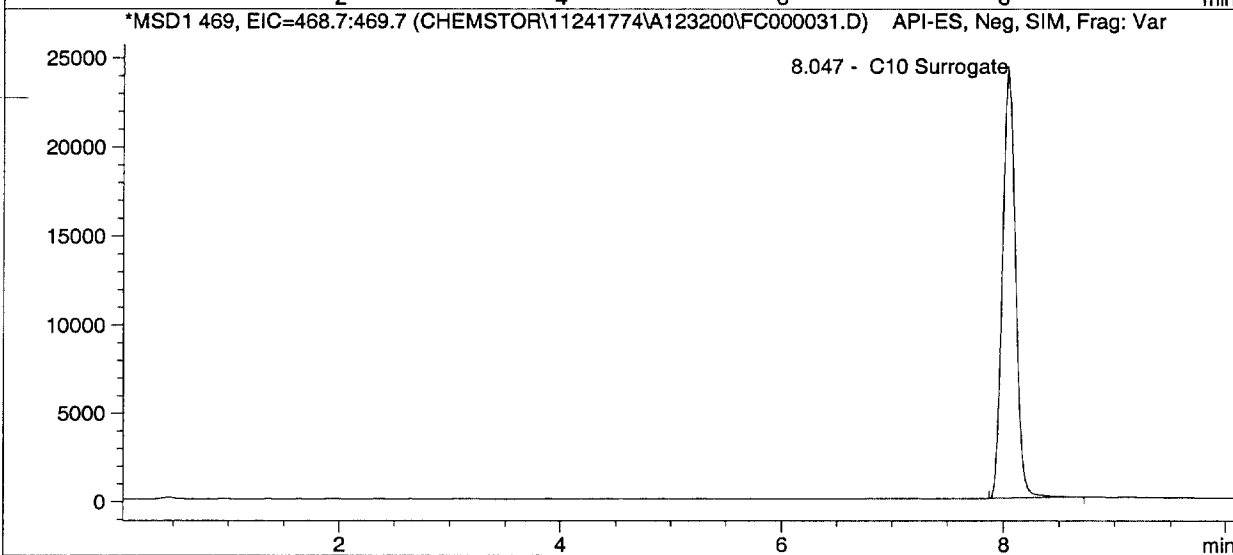
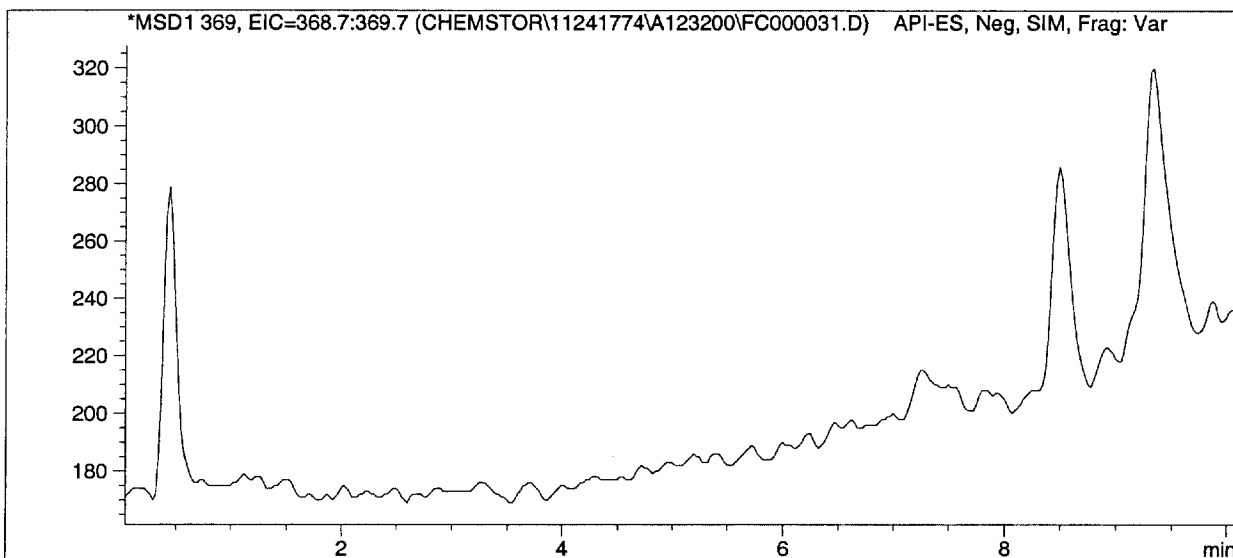
Data file :C:\HPCHEM\1\DATA\Chemstor\11241774\A123200\FC000031.D

=====

Injection Date	: 11/18/03	12:50:54 AM	Seq Line	:	31
Acq Operator	: jmillier		Vial No.	:	30
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
8 Acid	0.00	0.000	0	MSD1 369, EIC=368.7:369.7
10 Surrogat	357.88	8.047	201132	MSD1 469, EIC=468.7:469.7

*** End of Report ***

0050

Sample Name:STD 500 ppb

Sample Info:

1

Data file :C:\HPCHEM\1\DATA\Chemstor\11241882\A125376\FC000032.D

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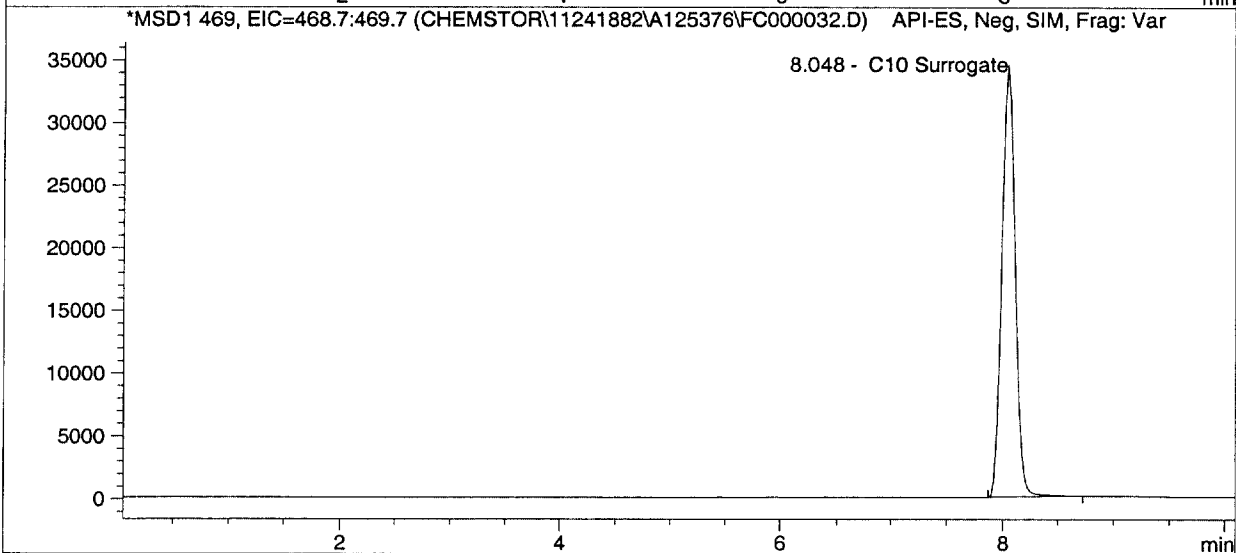
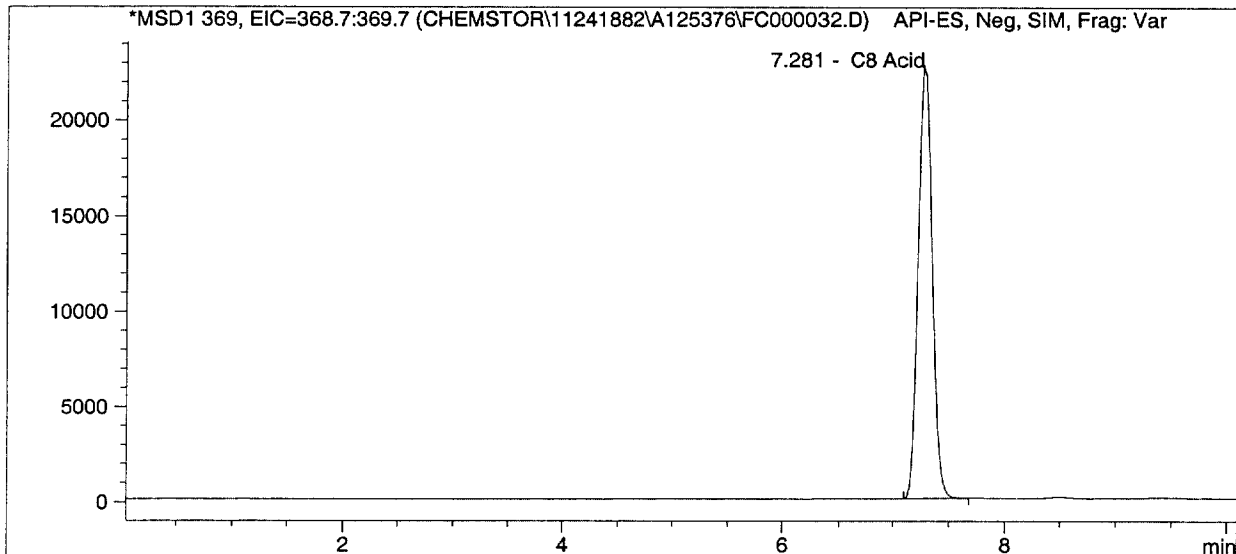
Injection Date	: 11/18/03	1:06:28 AM	Seq Line	:	32
Acq Operator	: jmillier		Vial No.	:	4
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M

Analysis Method : C:\HPCHEM\1\METHODS\111703.M

Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
C8 Acid	512.90	7.281	198672	MSD1 369, EIC=368.7:369.7
C10 Surrogat	520.70	8.048	285188	MSD1 469, EIC=468.7:469.7

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*** End of Report ***

0051

Sample Name: Solvent blank

Sample Info:

1

Data file : C:\HPCHEM\1\DATA\Chemstor\11241968\A127680\FC000033.D

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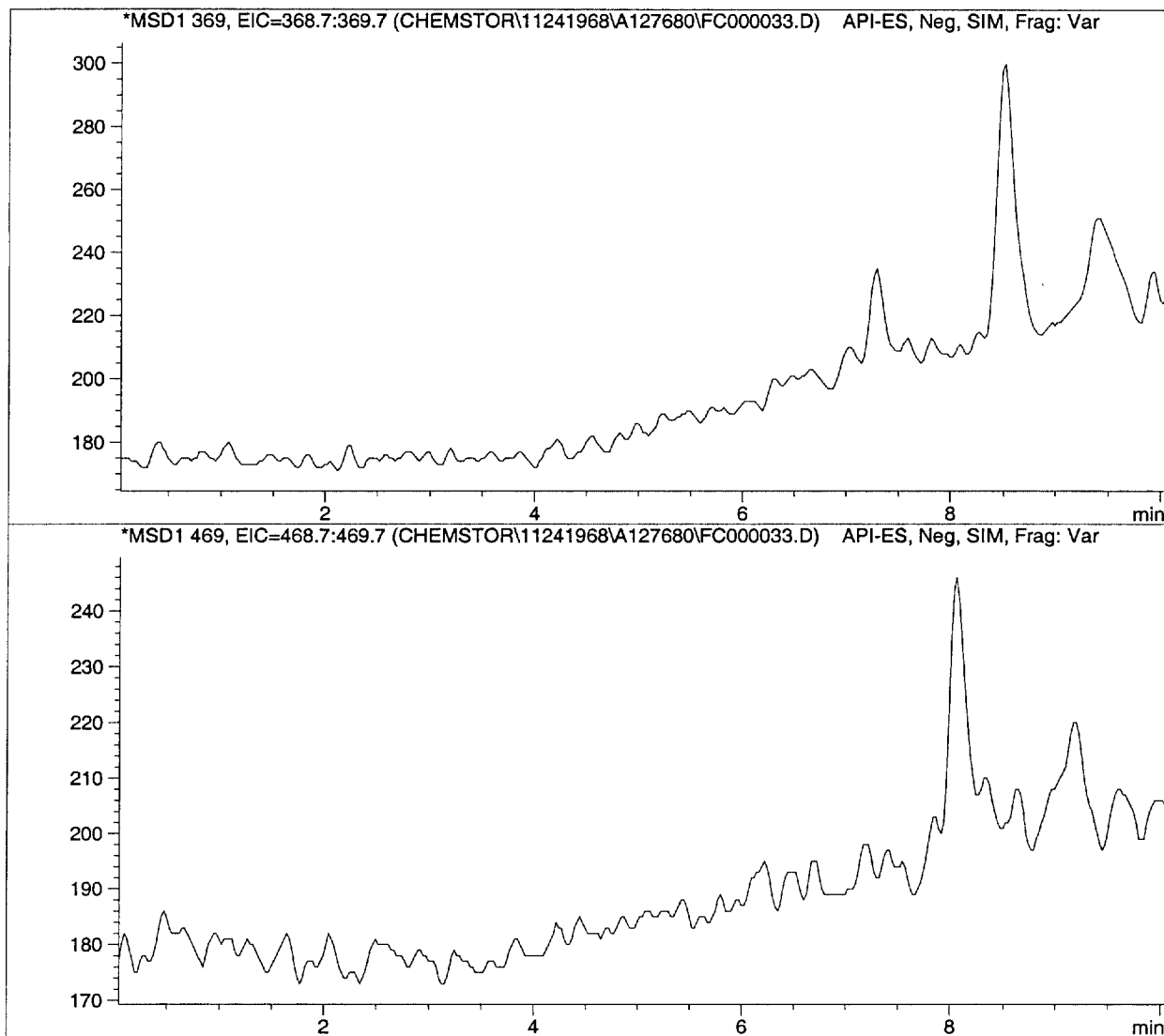
Injection Date	: 11/18/03	1:21:57 AM	Seq Line	:	33
Acq Operator	: jmillier		Vial No.	:	92
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M

Analysis Method : C:\HPCHEM\1\METHODS\111703.M

Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
8 Acid	0.00	0.000	0	MSD1 369, EIC=368.7:369.7
10 Surrogat	0.00	0.000	0	MSD1 469, EIC=468.7:469.7

*** End of Report ***

0052

Sample Name:L0001277-18

Sample Info:

1

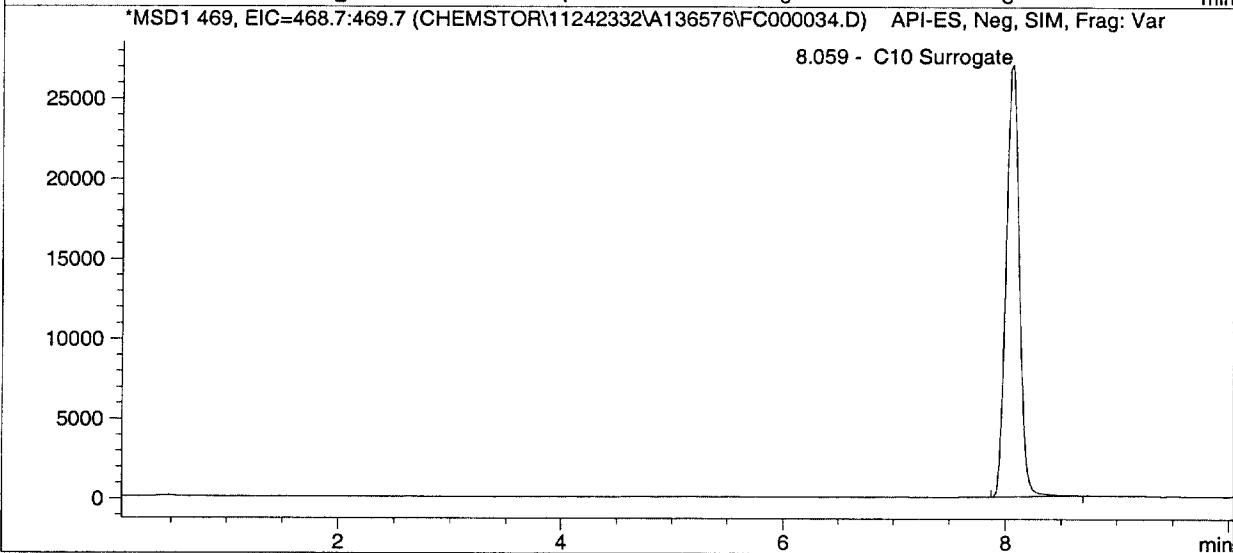
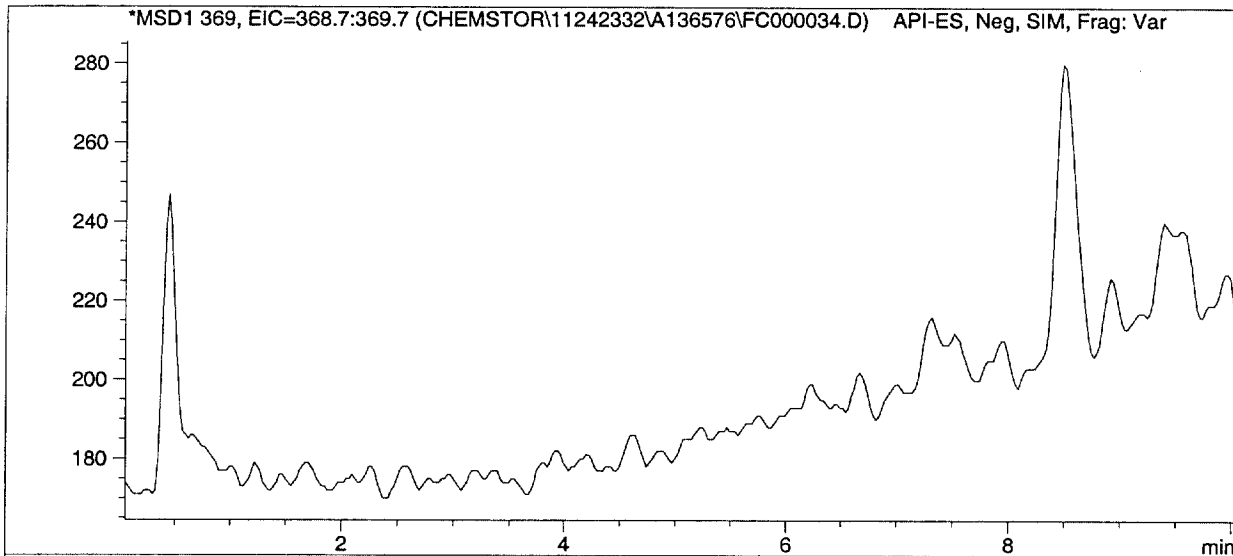
Data file :C:\HPCHEM\1\DATA\Chemstor\11242332\A136576\FC000034.D

=====

Injection Date	: 11/18/03	1:37:30 AM	Seq Line	:	34
Acq Operator	: jmillr		Vial No.	:	31
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
18 Acid	0.00	0.000	0	MSD1 369, EIC=368.7:369.7
10 Surrogat	407.14	8.059	226562	MSD1 469, EIC=468.7:469.7

*** End of Report ***

U053

Sample Name:L0001277-19

Sample Info:

1

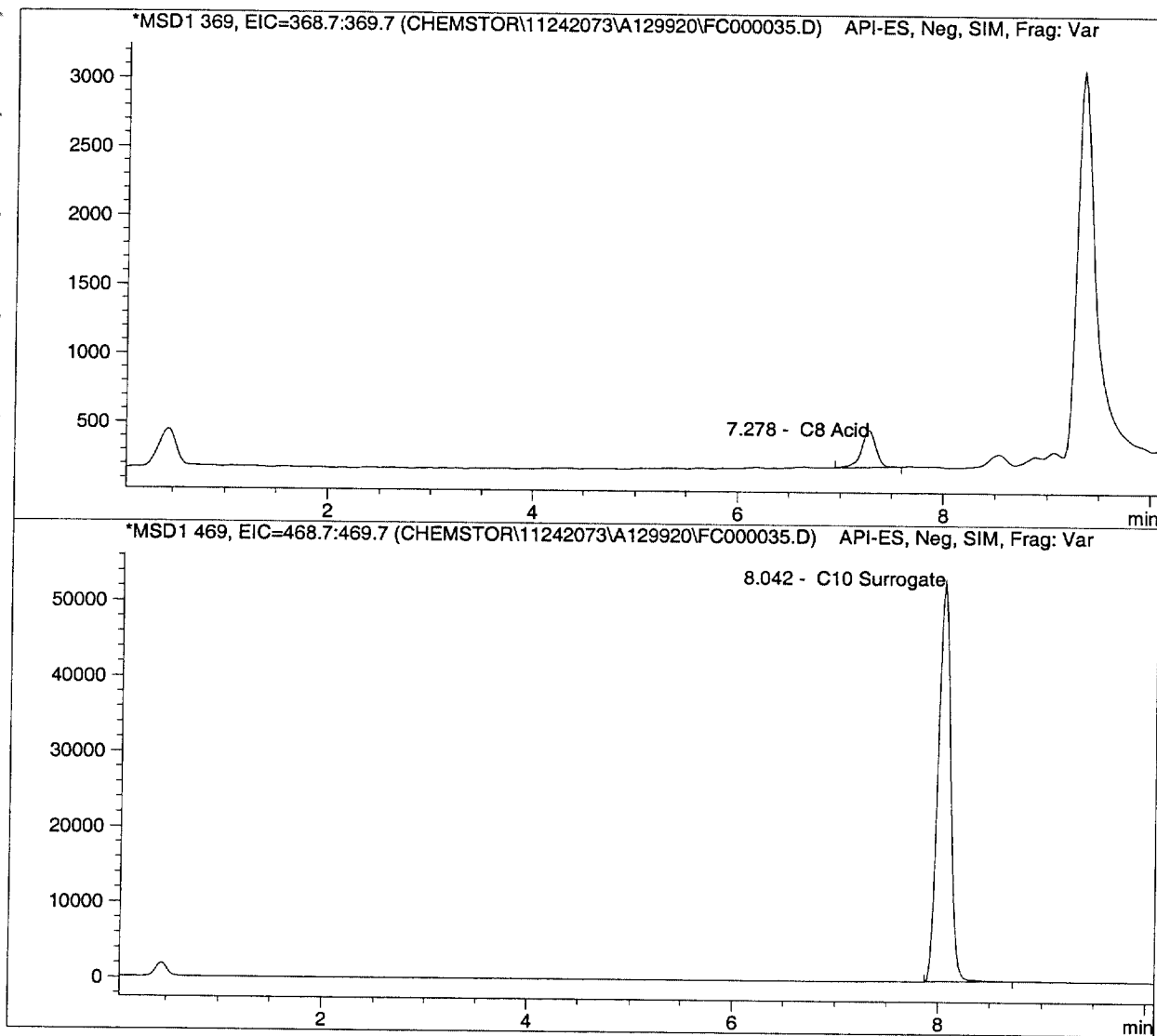
Data file :C:\HPCHEM\1\DATA\Chemstor\11242073\A129920\FC000035.D

=====

Injection Date	: 11/18/03	1:53:03 AM	Seq Line	:	35
Acq Operator	: jmillier		Vial No.	:	32
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
C8 Acid	0.00	7.278	2628	MSD1 369, EIC=368.7:369.7
10 Surrogat	825.29	8.042	442438	MSD1 469, EIC=468.7:469.7

*** End of Report ***

0054

Sample Name:L0001277-20

Sample Info:

1

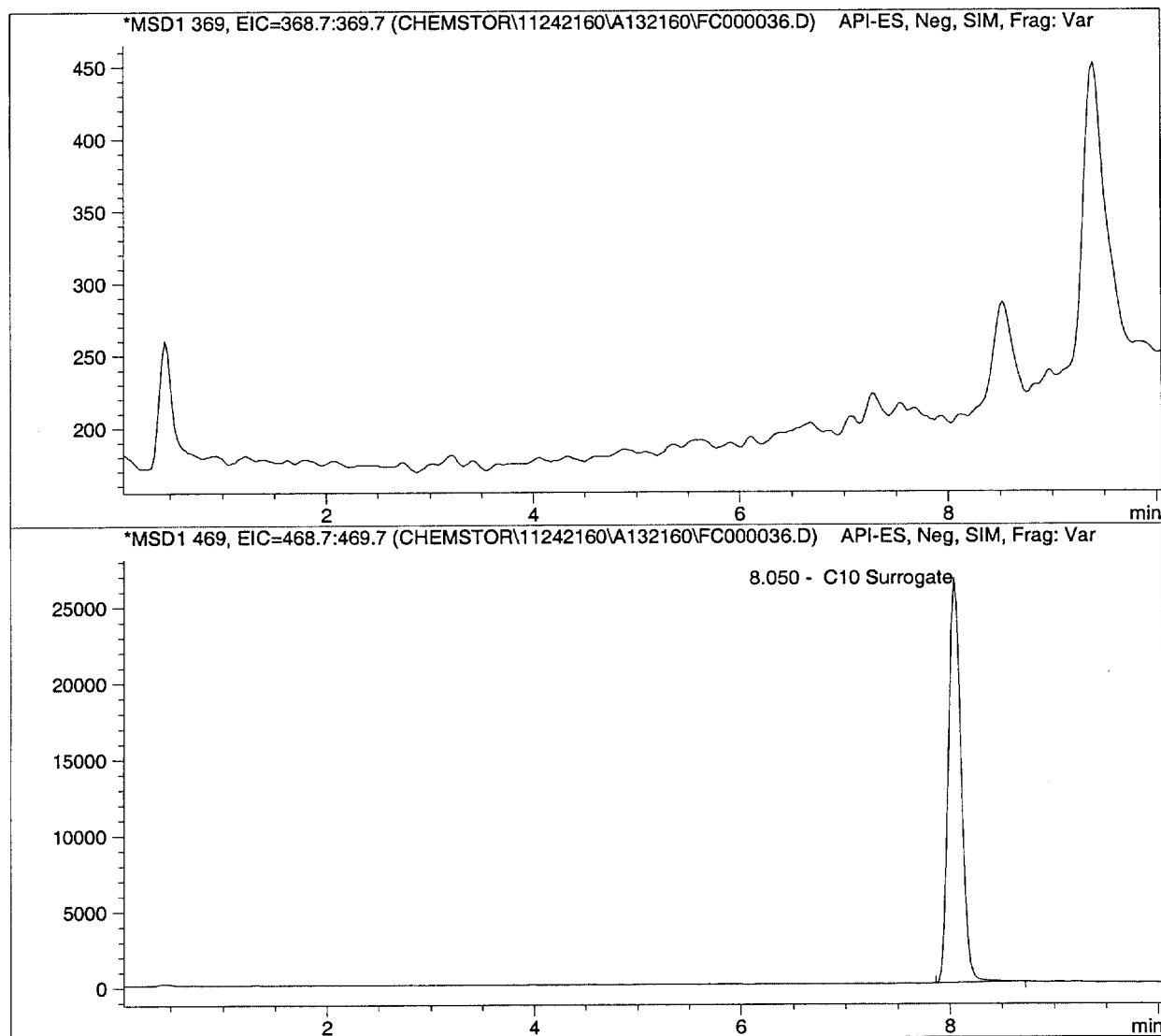
Data file :C:\HPCHEM\1\DATA\Chemstor\11242160\A132160\FC000036.D

=====

Injection Date	: 11/18/03	2:08:39 AM	Seq Line	:	36
Acq Operator	: jmillier		Vial No.	:	33
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
8 Acid	0.00	0.000	0	MSD1 369, EIC=368.7:369.7
10 Surrogat	396.83	8.050	221239	MSD1 469, EIC=468.7:469.7

*** End of Report ***

0055

Sample Name:L0001277-21

Sample Info:

1

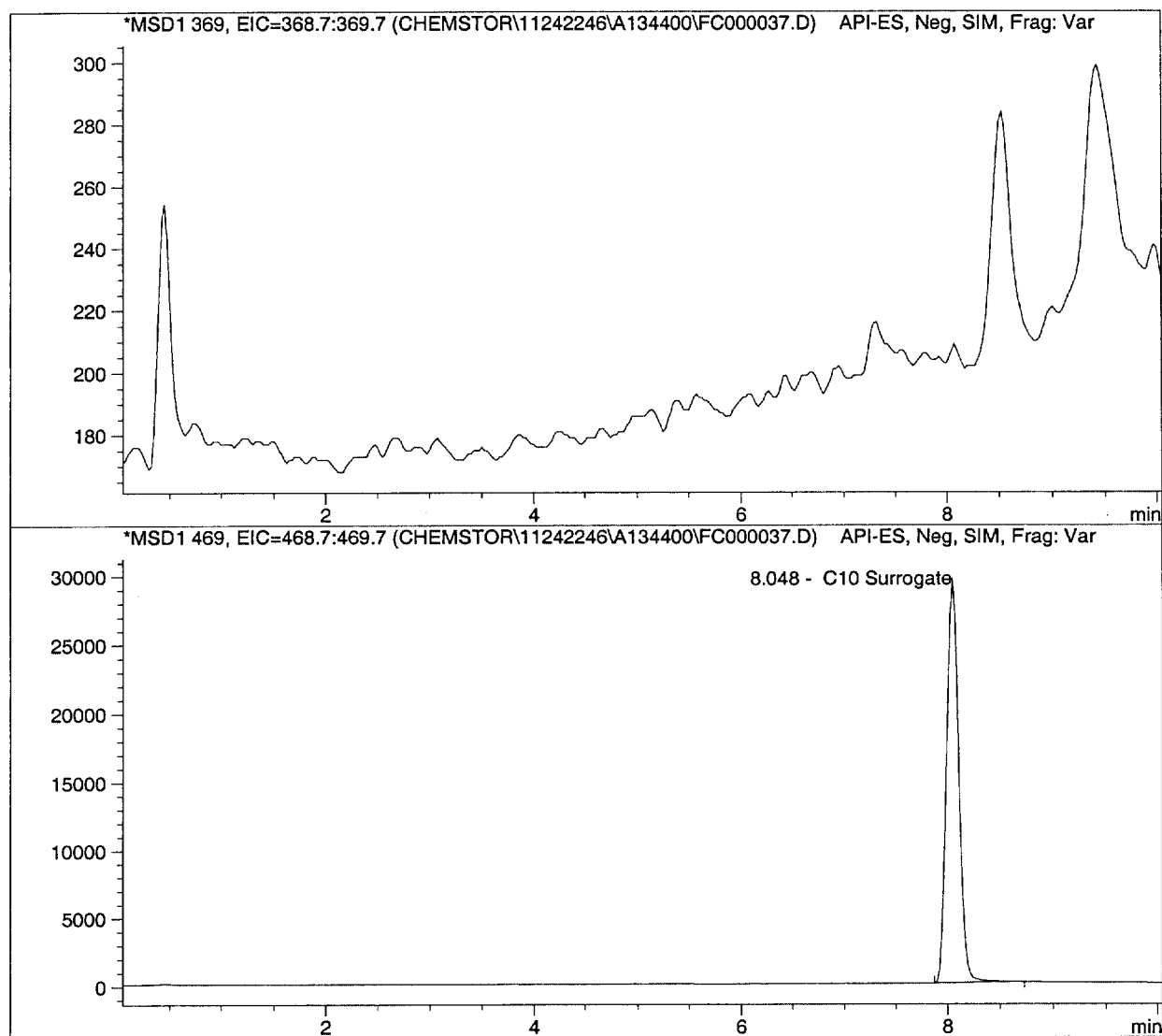
Data file :C:\HPCHEM\1\DATA\Chemstor\11242246\A134400\FC000037.D

=====

Injection Date	: 11/18/03	2:24:16 AM	Seq Line	:	37
Acq Operator	: jmillier		Vial No.	:	34
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
8 Acid	0.00	0.000	0	MSD1 369, EIC=368.7:369.7
10 Surrogat	442.08	8.048	244599	MSD1 469, EIC=468.7:469.7

*** End of Report ***

0056

Sample Name:STD 500 ppb

Sample Info:

1

Data file :C:\HPCHEM\1\DATA\Chemstor\11242420\A138752\FC000038.D

=====

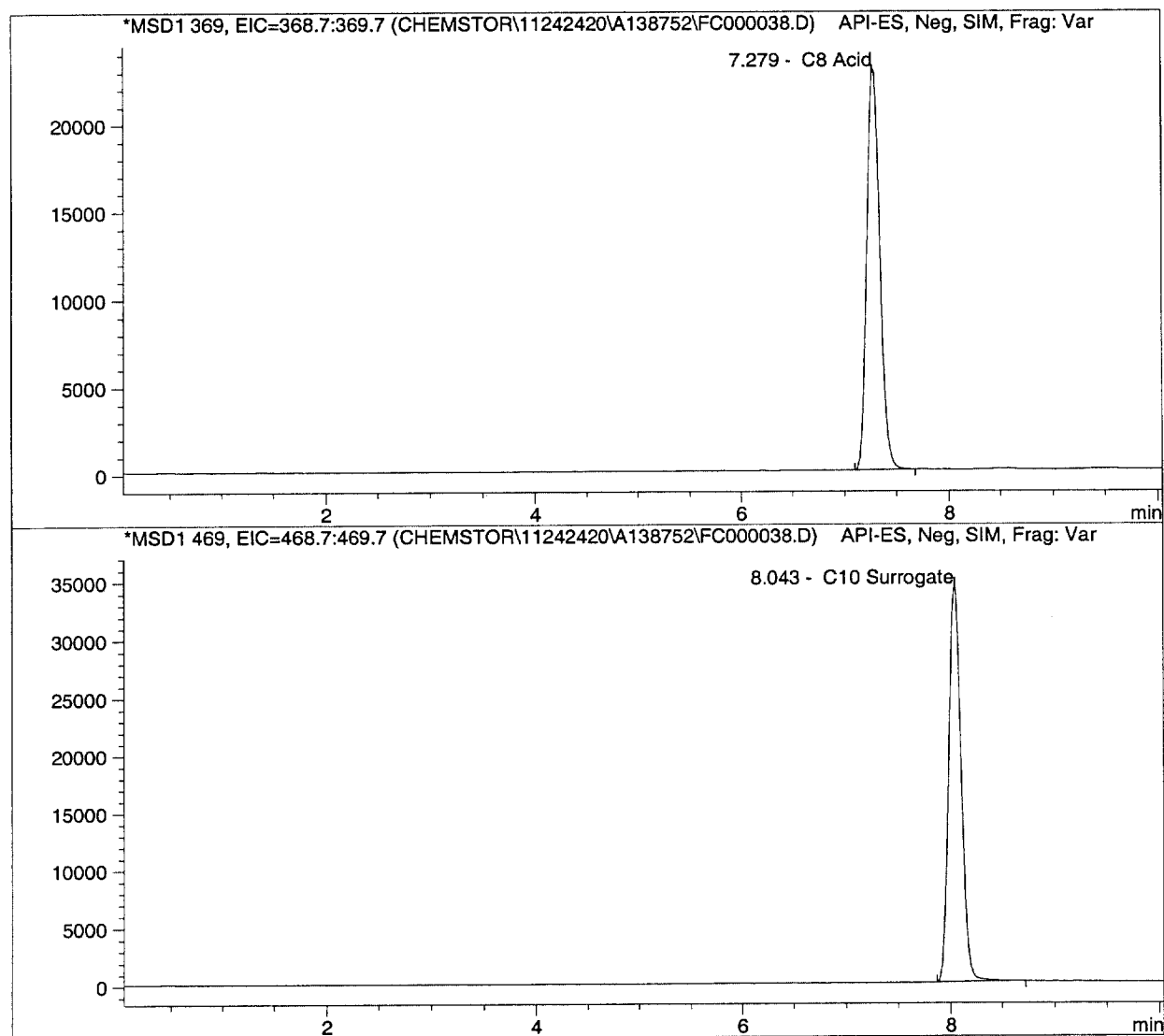
Injection Date	: 11/18/03	2:39:51 AM	Seq Line	:	38
Acq Operator	: jmillar		Vial No.	:	4
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M

Analysis Method : C:\HPCHEM\1\METHODS\111703.M

Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
8 Acid	524.51	7.279	202929	MSD1 369, EIC=368.7:369.7
10 Surrogat	531.10	8.043	290556	MSD1 469, EIC=468.7:469.7

=====
*** End of Report ***

0057

Sample Name: Solvent blank
Sample Info:

1

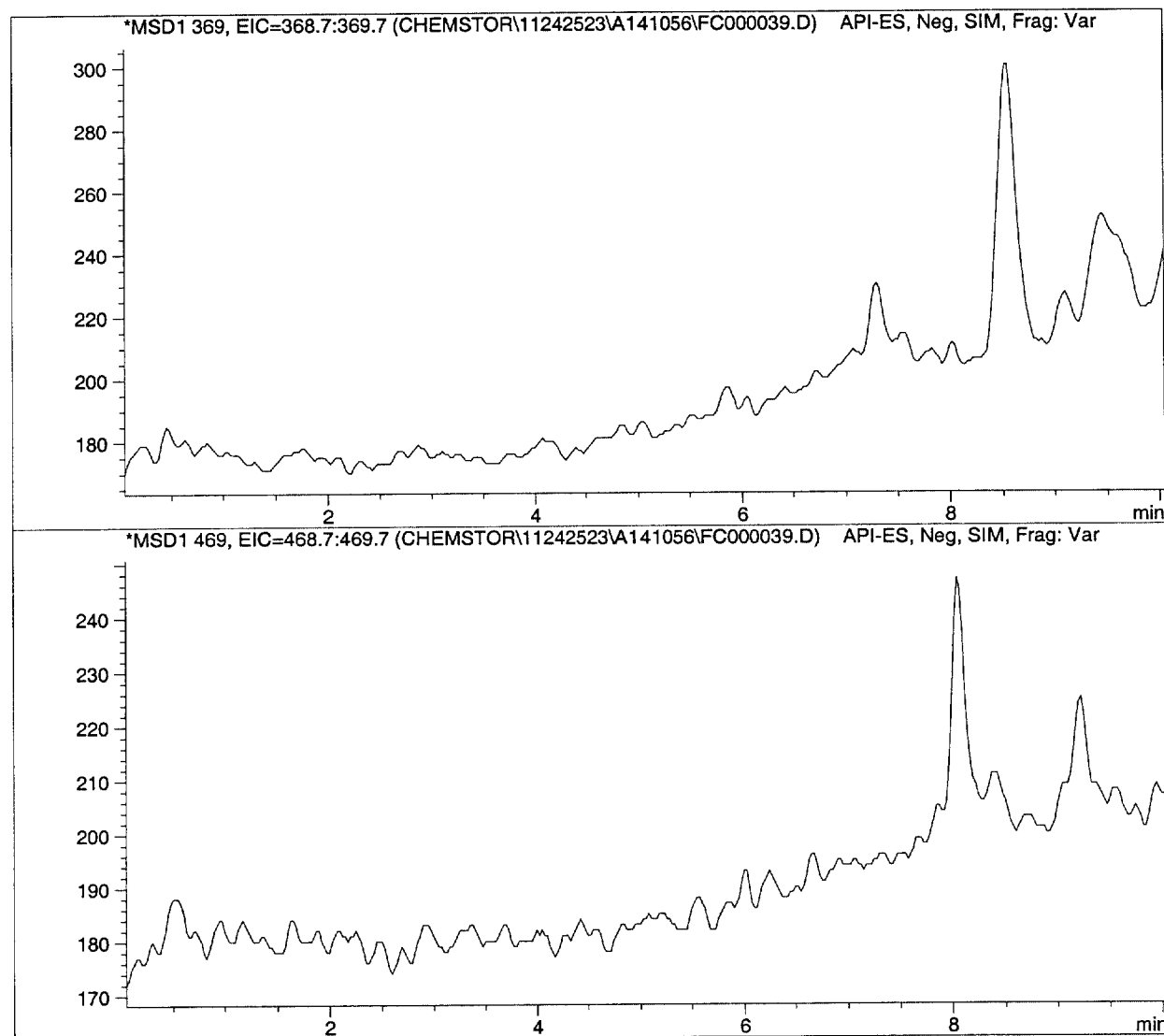
Data file : C:\HPCHEM\1\DATA\Chemstor\11242523\A141056\FC000039.D

=====

Injection Date	: 11/18/03	2:55:17 AM	Seq Line	:	39
Acq Operator	: jmillier		Vial No.	:	92
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:41 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
8 Acid	0.00	0.000	0	MSD1 369, EIC=368.7:369.7
10 Surrogat	0.00	0.000	0	MSD1 469, EIC=468.7:469.7

=====
*** End of Report ***

0058

Sample Name:STD 50 ppb

Sample Info:

1

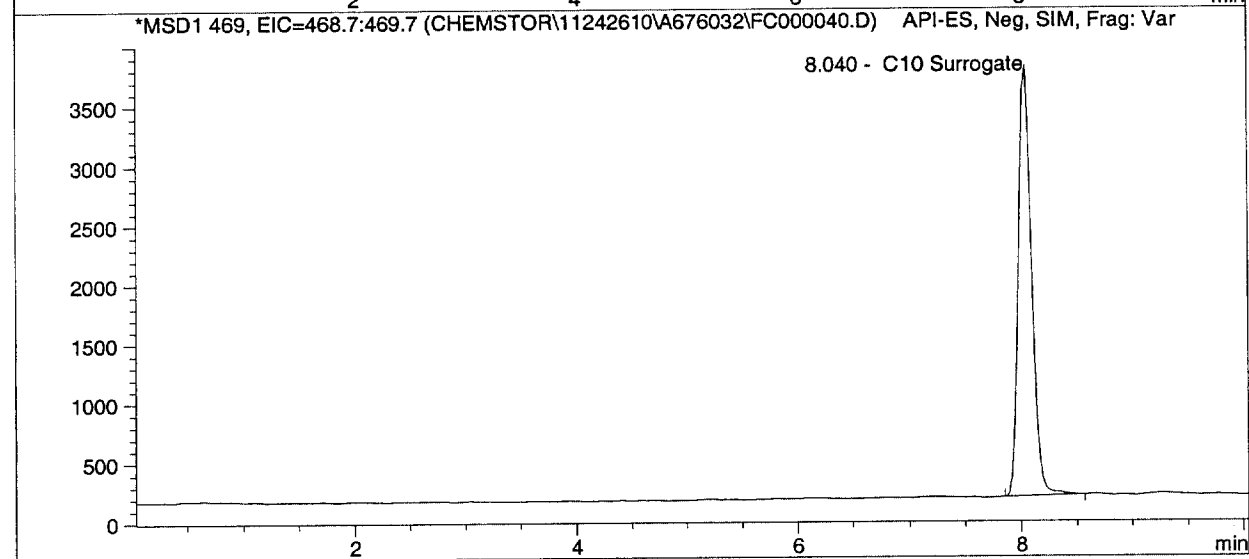
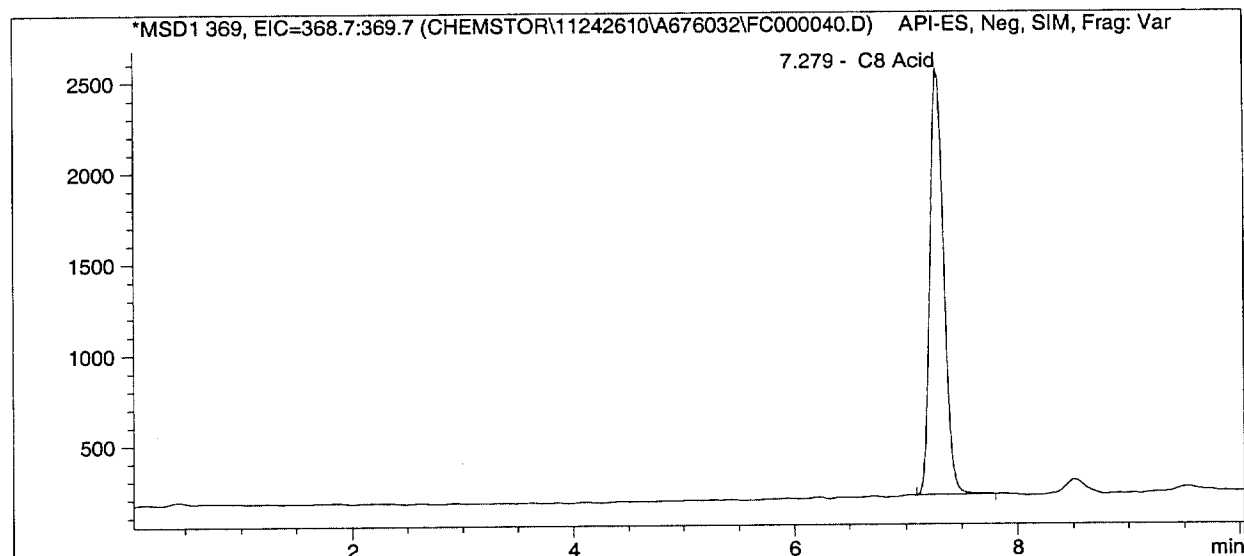
Data file :C:\HPCHEM\1\DATA\Chemstor\11242610\A676032\FC000040.D

=====

Injection Date	: 11/18/03	3:10:50 AM	Seq Line	:	40
Acq Operator	: jmillier		Vial No.	:	1
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:52 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
8 Acid	26.78	7.279	20433	MSD1 369, EIC=368.7:369.7
10 Surrogat	26.72	8.040	30167	MSD1 469, EIC=468.7:469.7

=====

*** End of Report ***

0059

Sample Name:STD 100 ppb

Sample Info:

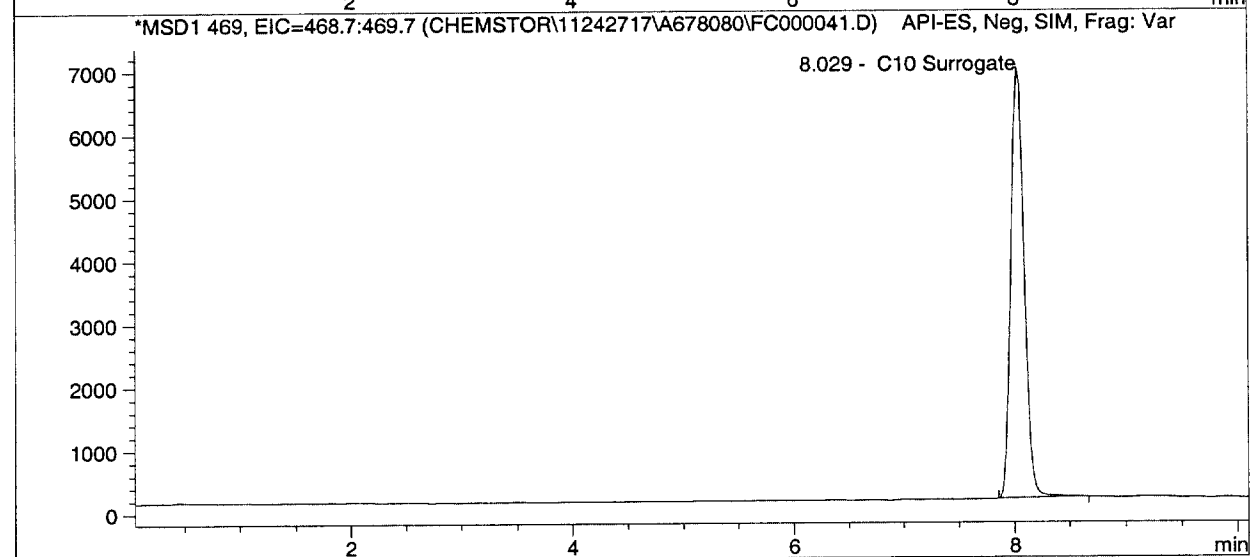
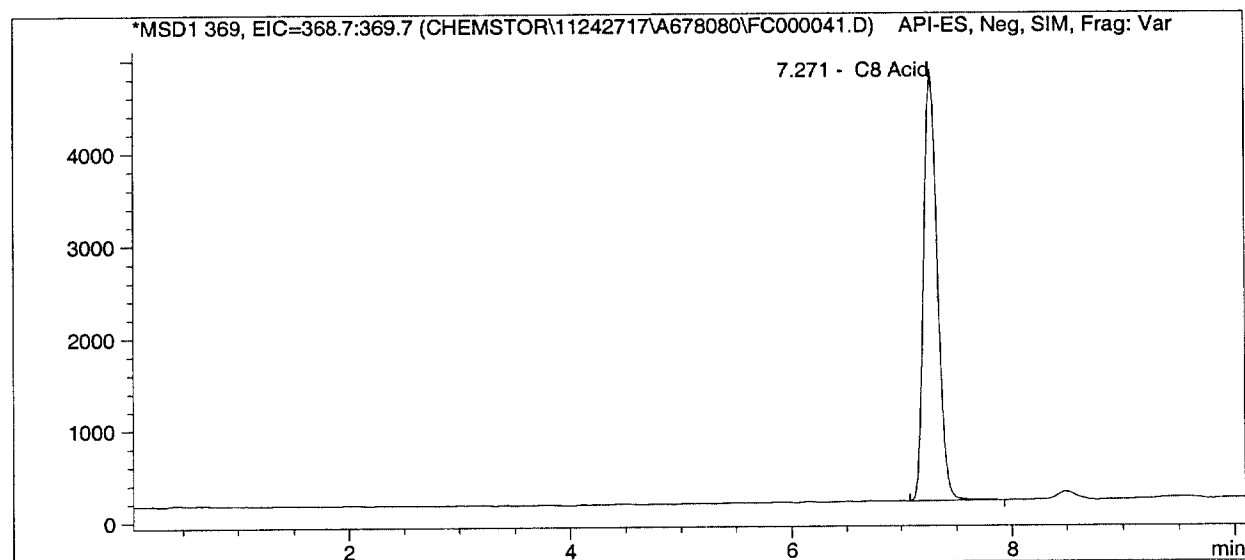
1

Data file :C:\HPCHEM\1\DATA\Chemstor\11242717\A678080\FC000041.D

Injection Date : 11/18/03 3:26:22 AM Seq Line : 41
Acq Operator : jmillar Vial No. : 2
Instrument : PC00414 Inj. No. : 1
Dilution : 1 Inj. Vol. : 5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:52 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
8 Acid	80.11	7.271	39986	MSD1 369, EIC=368.7:369.7
10 Surrogat	78.50	8.029	56901	MSD1 469, EIC=468.7:469.7

*** End of Report ***

0060

Sample Name:STD 250 ppb
Sample Info:

1

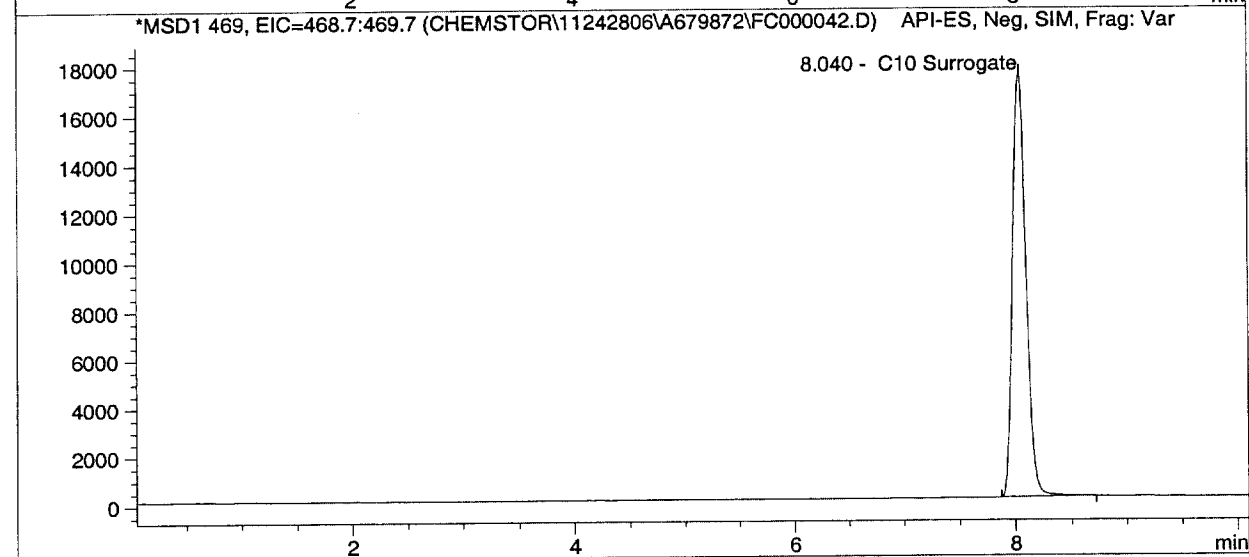
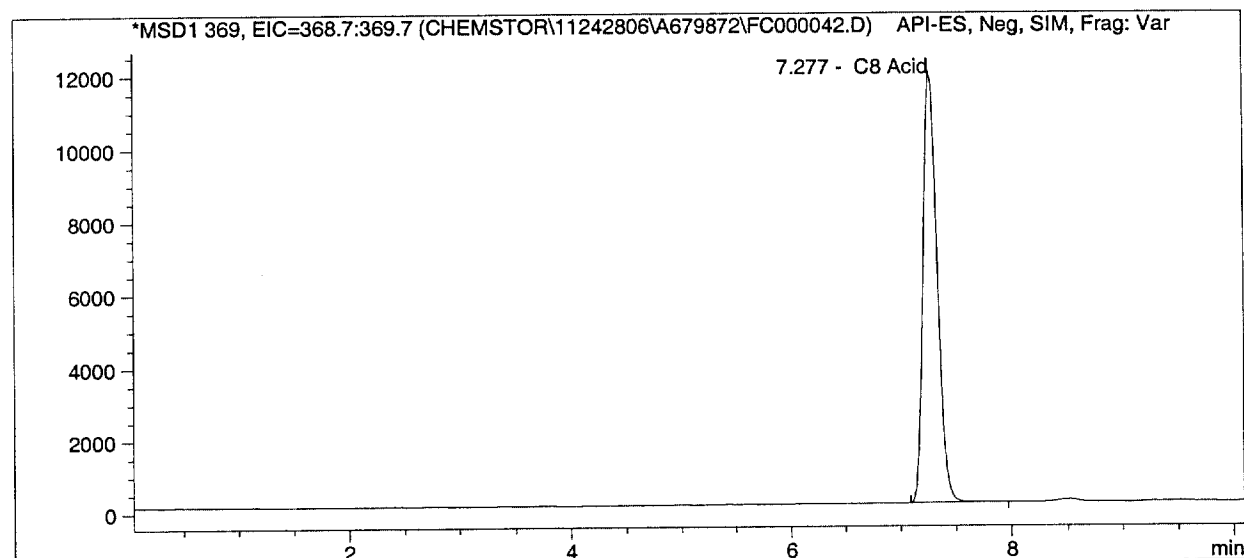
Data file :C:\HPCHEM\1\DATA\Chemstor\11242806\A679872\FC000042.D

=====

Injection Date	: 11/18/03	3:41:57 AM	Seq Line	:	42
Acq Operator	: jmillar		Vial No.	:	3
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:52 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
C8 Acid	252.62	7.277	103241	MSD1 369, EIC=368.7:369.7
C10 Surrogat	253.10	8.040	147036	MSD1 469, EIC=468.7:469.7

=====

*** End of Report ***

0061

Sample Name:STD 500 ppb

Sample Info:

1

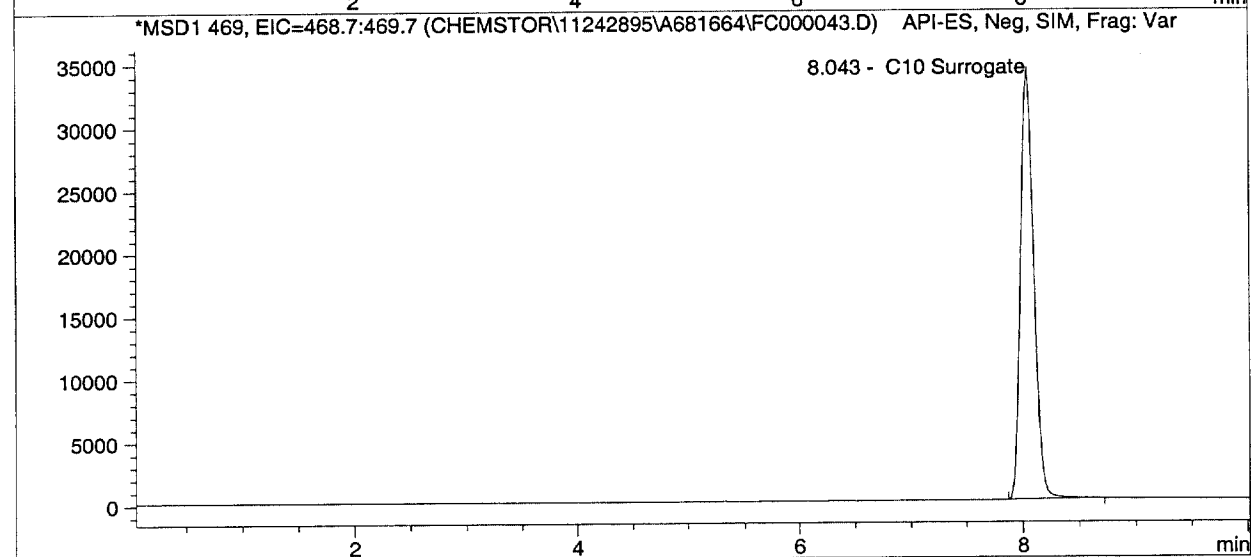
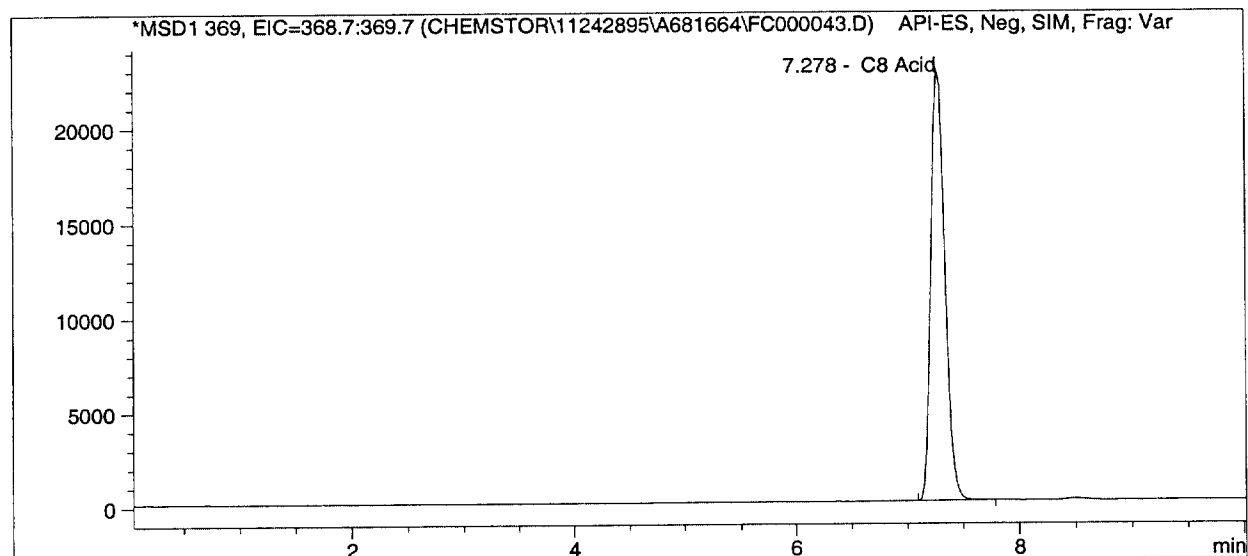
Data file :C:\HPCHEM\1\DATA\Chemstor\11242895\A681664\FC000043.D

=====

Injection Date	: 11/18/03	3:57:31 AM	Seq Line	:	43
Acq Operator	: jmillar		Vial No.	:	4
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:52 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
8 Acid	513.55	7.278	198911	MSD1 369, EIC=368.7:369.7
10 Surrogat	516.86	8.043	283206	MSD1 469, EIC=468.7:469.7

=====

*** End of Report ***

0062

Sample Name:STD 750 ppb

Sample Info:

1

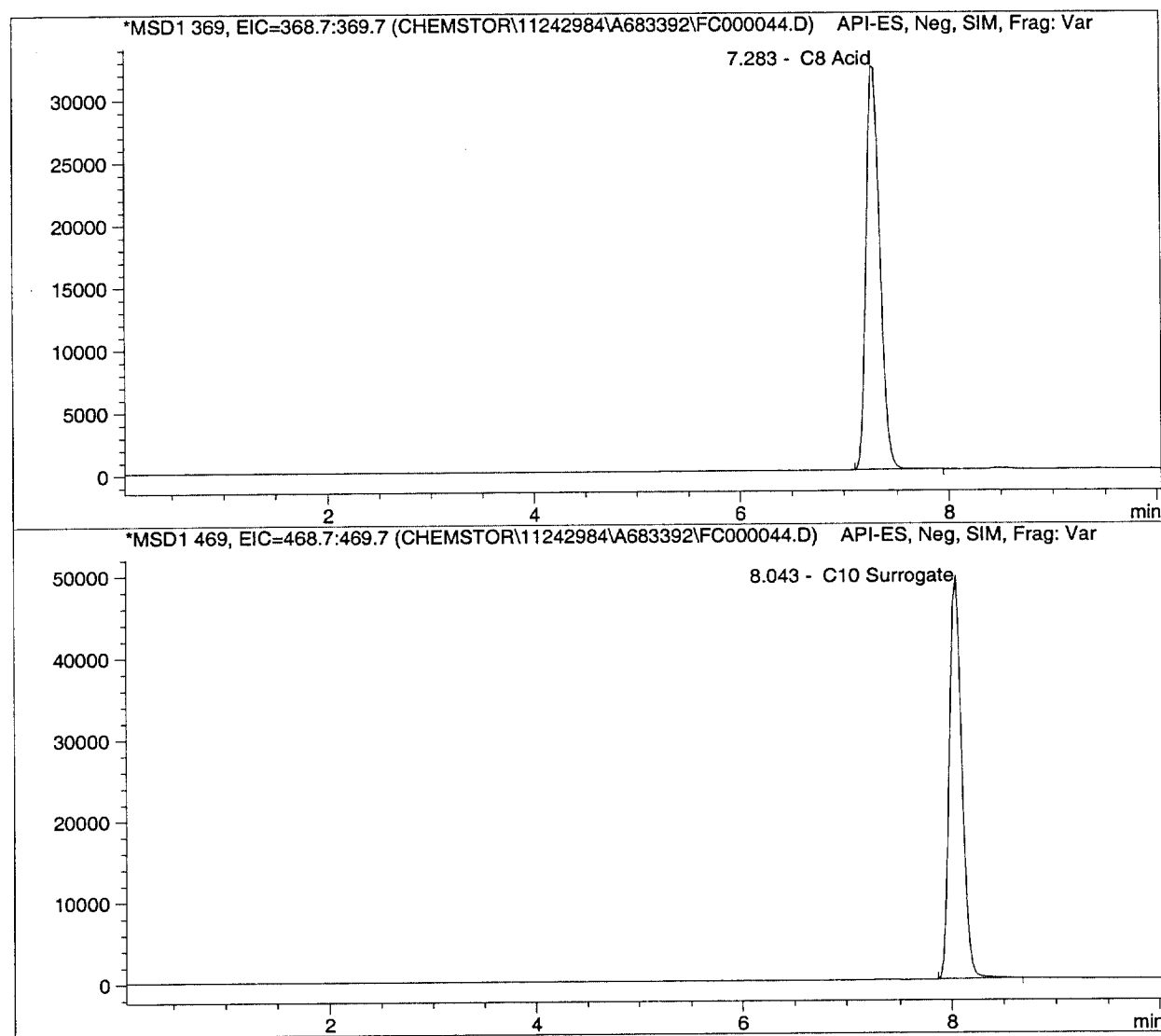
Data file :C:\HPCHEM\1\DATA\Chemstor\11242984\A683392\FC000044.D

=====

Injection Date	: 11/18/03	4:13:05 AM	Seq Line	:	44
Acq Operator	: jmillar		Vial No.	:	5
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:52 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
C8 Acid	750.57	7.283	285817	MSD1 369, EIC=368.7:369.7
C10 Surrogat	761.33	8.043	409414	MSD1 469, EIC=468.7:469.7

=====

*** End of Report ***

0063

Sample Name:STD 1000 ppb

Sample Info:

1

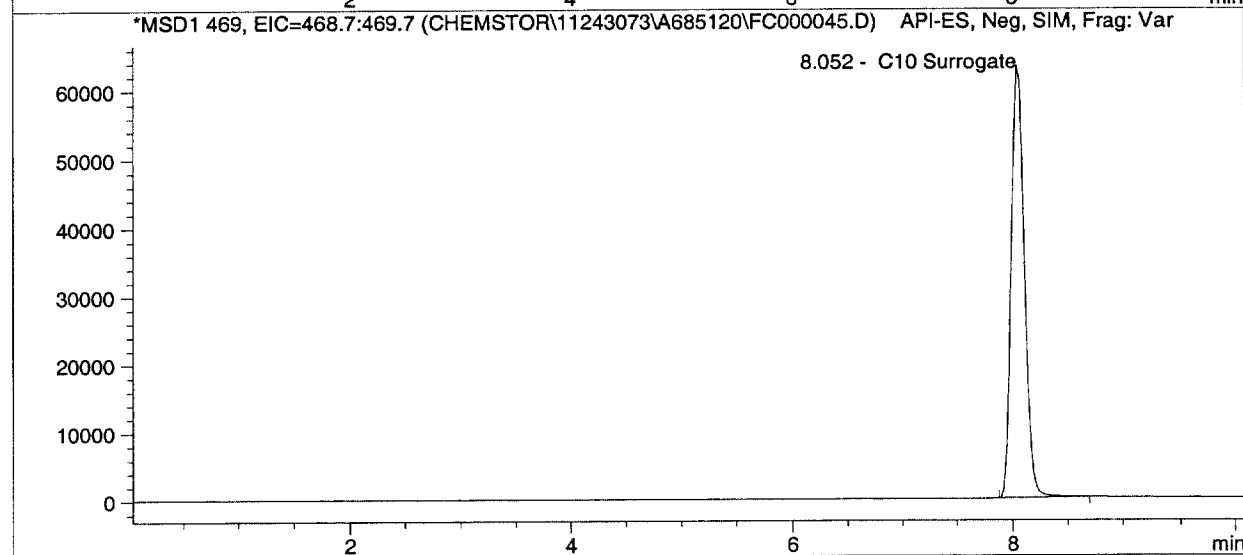
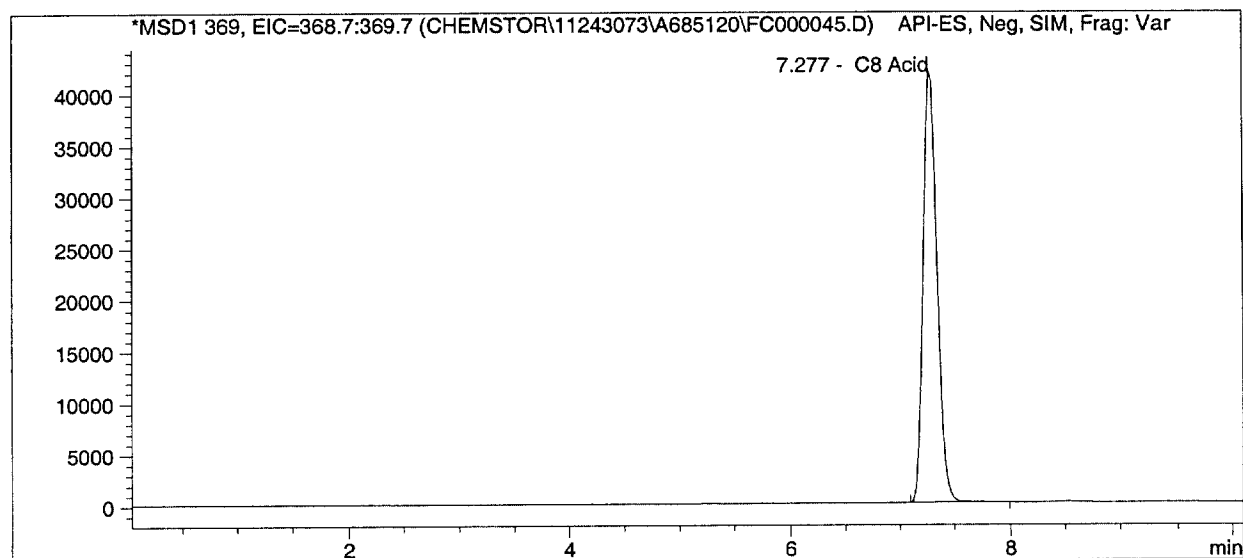
Data file :C:\HPCHEM\1\DATA\Chemstor\11243073\A685120\FC000045.D

=====

Injection Date	: 11/18/03	4:28:42 AM	Seq Line	:	45
Acq Operator	: jmillar		Vial No.	:	6
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M
Analysis Method : C:\HPCHEM\1\METHODS\111703.M
Last Changed : 1/6/04 03:42:52 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
C8 Acid	989.14	7.277	373290	MSD1 369, EIC=368.7:369.7
C10 Surrogat	995.64	8.052	530381	MSD1 469, EIC=468.7:469.7

=====

*** End of Report ***

0064

Sample Name:STD 1500 ppb

Sample Info:

1

Data file :C:\HPCHEM\1\DATA\Chemstor\11243162\A687232\FC000046.D

=====

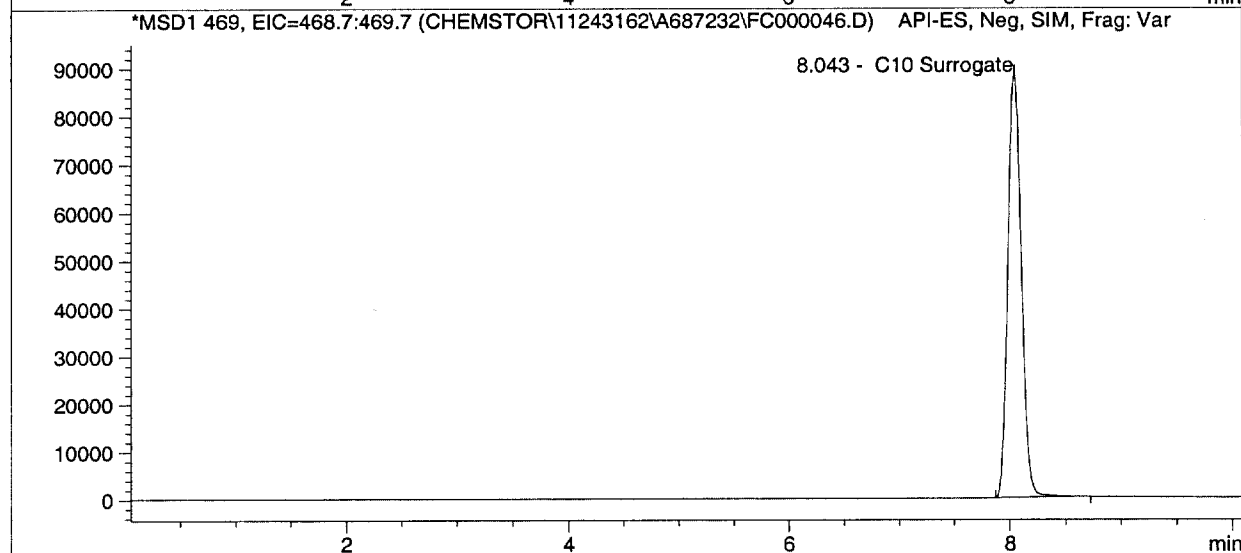
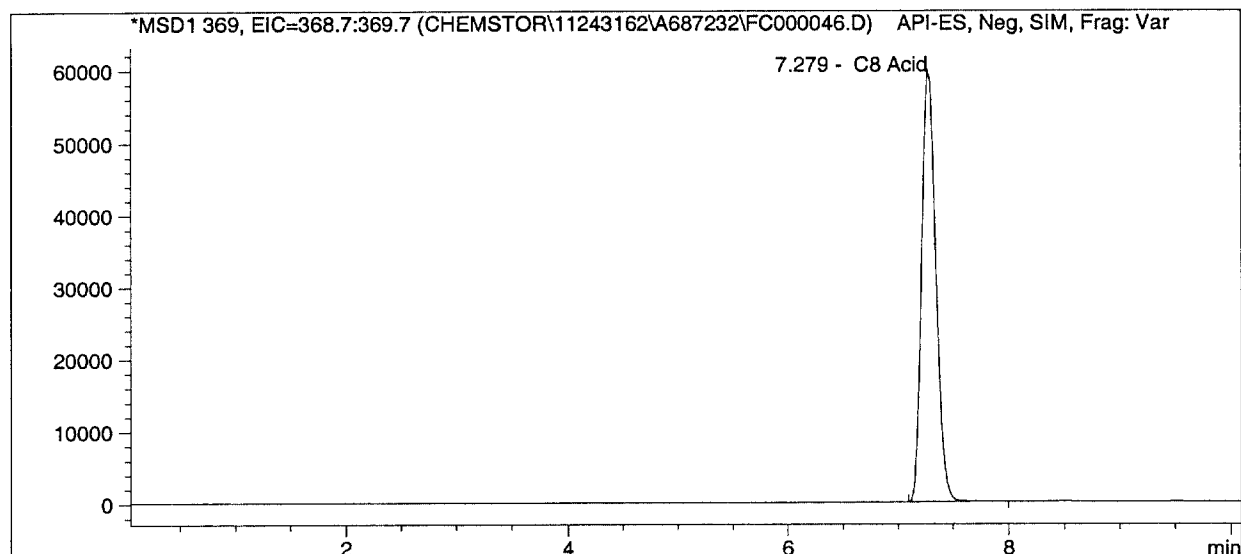
Injection Date	: 11/18/03	4:44:21 AM	Seq Line	:	46
Acq Operator	: jmillier		Vial No.	:	7
Instrument	: PC00414		Inj. No.	:	1
Dilution	: 1		Inj. Vol.	:	5 µl

Acq. Method : FC8-10.M

Analysis Method : C:\HPCHEM\1\METHODS\111703.M

Last Changed : 1/6/04 03:42:52 pm

LC/MS analysis of perfluorooctanoic acid.



Compound	Amount (ng/mL)	R.T.	Area	Signal
C8 Acid	1425.56	7.279	533309	MSD1 369, EIC=368.7:369.7
C10 Surrogat	1430.26	8.043	754759	MSD1 469, EIC=468.7:469.7

=====

*** End of Report ***

0065

Login

Login Group: L0001277

Login #: L0001277 > 1,387
Project: P0000419
Project Title/Type: Analysis of PFOA in OVS Tubes / ROUTINE
Project Storage:
Submitted By: Michael D. Aucoin
Status: Unreceived
Login Type: Immediate Receipt of Samples
Started: T
Date Start: 11/7/2003 2:41:35PM
Due Date: 11/21/2003
Received Date: 11/07/2003
Received By: ROBB, SHAWN
Spread Sample:
Label:

Conform COC Sample: True
Conform COC: True
Conform Sample: True
Conform Request: True

Login Notes:
Conform Notes: "

Packages / Containers

Package	Carton	Mail Date / Condition	Shipper / _ID	Temp. Control / Temperat	Direction / Handled By
PK0001842		11/7/2003 10:40:51PM Package & Contents Uncompromised	FEDEX 8363913020300200	NONE	RECEIVED ROBB, SHAWN

Container #	Gross Weight	pH	Container Type	Preservative	Mfg. Lot	Mfg. ID
C0018656	7.2 g		Other	NONE		
C0018657	7.1 g		Other	NONE		
C0018658	7.2 g		Other	NONE		
C0018659	7.2 g		Other	NONE		
C0018660	7.2 g		Other	NONE		
C0018661	7.2 g		Other	NONE		
C0018662	7.2 g		Other	NONE		
C0018663	7.2 g		Other	NONE		
C0018664	7.2 g		Other	NONE		
C0018665	7.2 g		Other	NONE		
C0018666	7.2 g		Other	NONE		
C0018667	7.2 g		Other	NONE		
C0018668	7.2 g		Other	NONE		
C0018669	7.2 g		Other	NONE		
C0018670	7.2 g		Other	NONE		
C0018671	7.2 g		Other	NONE		
C0018672	7.2 g		Other	NONE		
C0018673	7.2 g		Other	NONE		
C0018674	7.2 g		Other	NONE		
C0018675	7.2 g		Other	NONE		
C0018676	7.2 g		Other	NONE		
C0018677	7.2 g		Other	NONE		
C0018678	7.2 g		Other	NONE		
C0018679	7.2 g		Other	NONE		

ICOC

Miscellaneous

Item Key

None

Description

0066



Samples

<u>Sample ID</u>	<u>Matrix</u>	<u>Fraction</u>	<u>Sample</u>	<u>Date Sampled</u>	<u>Date Received</u>	<u>Date Due</u>
L0001277-0001	GAS	OVS Tubes	WWK-A-AMSFBLK-E1 A		11/07/2003	11/21/2003
L0001277-0002	GAS	OVS Tubes	WWK-A-AMSFBLK-E1 B		11/07/2003	11/21/2003
L0001277-0003	GAS	OVS Tubes	WWK-A-AMSFBLK-E1 C		11/07/2003	11/21/2003
L0001277-0004	GAS	OVS Tubes	WWK-A-AMS1-E1 A		11/07/2003	11/21/2003
L0001277-0005	GAS	OVS Tubes	WWK-A-AMS1-E1 B		11/07/2003	11/21/2003
L0001277-0006	GAS	OVS Tubes	WWK-A-AMS1-E1 C		11/07/2003	11/21/2003
L0001277-0007	GAS	OVS Tubes	WWK-A-AMS2-E1 A		11/07/2003	11/21/2003
L0001277-0008	GAS	OVS Tubes	WWK-A-AMS2-E1 B		11/07/2003	11/21/2003
L0001277-0009	GAS	OVS Tubes	WWK-A-AMS2-E1 C		11/07/2003	11/21/2003
L0001277-0010	GAS	OVS Tubes	WWK-A-AMS3-E1 A		11/07/2003	11/21/2003
L0001277-0011	GAS	OVS Tubes	WWK-A-AMS3-E1 B		11/07/2003	11/21/2003
L0001277-0012	GAS	OVS Tubes	WWK-A-AMS3-E1 C		11/07/2003	11/21/2003
L0001277-0013	GAS	OVS Tubes	WWK-A-AMS4-E1 A		11/07/2003	11/21/2003
L0001277-0014	GAS	OVS Tubes	WWK-A-AMS4-E1 B		11/07/2003	11/21/2003
L0001277-0015	GAS	OVS Tubes	WWK-A-AMS4-E1 C		11/07/2003	11/21/2003
L0001277-0016	GAS	OVS Tubes	WWK-A-AMS5-E1 A		11/07/2003	11/21/2003
L0001277-0017	GAS	OVS Tubes	WWK-A-AMS5-E1 B		11/07/2003	11/21/2003
L0001277-0018	GAS	OVS Tubes	WWK-A-AMS5-E1 C		11/07/2003	11/21/2003
L0001277-0019	GAS	OVS Tubes	WWK-A-AMS6-E1 A		11/07/2003	11/21/2003
L0001277-0020	GAS	OVS Tubes	WWK-A-AMS6-E1 B		11/07/2003	11/21/2003
L0001277-0021	GAS	OVS Tubes	WWK-A-AMS6-E1 C		11/07/2003	11/21/2003
L0001277-0022	GAS	OVS Tubes	CONTROL A		11/07/2003	11/21/2003
L0001277-0023	GAS	OVS Tubes	CONTROL B		11/07/2003	11/21/2003
L0001277-0024	GAS	OVS Tubes	CONTROL C		11/07/2003	11/21/2003

0067



Login

Bottles

L0001277-0001

Container

C0018656 / Other / NONE

Method

L0001277-0002

Container

C0018657 / Other / NONE

Method

L0001277-0003

Container

C0018658 / Other / NONE

Method

L0001277-0004

Container

C0018659 / Other / NONE

Method

L0001277-0005

Container

C0018660 / Other / NONE

Method

L0001277-0006

Container

C0018661 / Other / NONE

Method

L0001277-0007

Container

C0018662 / Other / NONE

Method

L0001277-0008

Container

C0018663 / Other / NONE

Method

L0001277-0009

Container

C0018664 / Other / NONE

Method

L0001277-0010

Container

C0018665 / Other / NONE

Method

L0001277-0011

Container

C0018666 / Other / NONE

Method

L0001277-0012

Container

Method

0068



Login

C0018667 / Other / NONE

L0001277-0013

Container

Method

C0018668 / Other / NONE

L0001277-0014

Container

Method

C0018669 / Other / NONE

L0001277-0015

Container

Method

C0018670 / Other / NONE

L0001277-0016

Container

Method

C0018671 / Other / NONE

L0001277-0017

Container

Method

C0018672 / Other / NONE

L0001277-0018

Container

Method

C0018673 / Other / NONE

L0001277-0019

Container

Method

C0018674 / Other / NONE

L0001277-0020

Container

Method

C0018675 / Other / NONE

L0001277-0021

Container

Method

C0018676 / Other / NONE

L0001277-0022

Container

Method

C0018677 / Other / NONE

L0001277-0023

Container

Method

C0018678 / Other / NONE

L0001277-0024

Container

Method

0069



Login

C0018679 / Other / NONE

0070



PROJECT INFORMATION

Client (name & address):

ADQM
DuPont Washington works

Phone: (302) 892-1698

Fax: _____

Sampler: SSO/REK/LMK/AAC

Please fill out this form *completely* to ensure correct analysis and proper handling of your samples.

Project Manager (Name & E-mail Address):

Mike Aucoin

Project Name:

Air Sampling Program

P.O. #:

Quotation #:

SAMPLE ANALYSIS

ExyLIMS#	Client Sample Identification	Collection Date	Collection Time
	WwK-A-AMSFBLK-E1	11/06/03	0633
	WwK-A-AMS1-E1		0545
	WwK-A-AMS2-E1		0551
	WwK-A-AMS3-E1		0553
	WwK-A-AMS4-E1		0602
	WwK-A-AMS5-E1		0531
	WwK-A-AMS6-E1	11/06/03	0615

LAB USE ONLY

[illegible][illegible]

CHAIN OF CUSTODY

Relinquished by	Date	Time
<i>[Signature]</i>	11/6/03	0800

Cooler ID # NACooler Temp. (°C) 14

Received by	Date	Time
<i>[Signature]</i>	10/06/03	0830
<i>[Signature]</i>	11/07/02	1040

LAB USE ONLY

OTHER INFORMATION

Event 1

PROJECT REQUIREMENTS

Results Deadline:

Laboratory Report Options:

- ☐ Sample results only
- ☐ Add case narrative
- ☐ Add quality control summary
- ☐ Add calibration summary
- ☐ Add raw data
- ☐ Other

DuPont Washington Works
Air Sampling Program

Sampler(s): SO₂, AC
RK, LK

FedEx Airbill #: 83639132030

Event Number

Event 1

Pump #	Station #	Exogen ID	Calibration (pre)	Date	Start Time	Date	Stop Time	Calibration (post)	Total Minutes	Total Volume
669842	AMS-1	WWK-A-AMS1-E1	1.007	11-5-03	0559	11/6/03	0545	0.9691	1424	
669908	AMS-2	WWK-A-AMS2-E1	1.011	11-5-03	0607		0551	0.9694	1425	
669878	AMS-3	WWK-A-AMS3-E1	1.012	11-5-03	0609		0553	0.9590	1425	
669831	AMS-4	WWK-A-AMS4-E1	1.011	11-5-03	0619		0602	0.9530	1424	
669769	AMS-5	WWK-A-AMS5-E1	1.016	11-5-03	0543		0531	0.9706	1430	
669865	AMS-6	WWK-A-AMS6-E1	1.010	11-5-03	0643		0615	1.0000	1387+1473	
Hours	Minutes	Hours	Minutes	Hours	Minutes	Hours	Minutes	Hours	Minutes	
0	0	5	300	10	600	15	900	20	1200	
1	60	6	360	11	660	16	960	21	1260	
2	120	7	420	12	720	17	1020	22	1320	
3	180	8	480	13	780	18	1080	23	1380	
4	240	9	540	14	840	19	1140	24	1440	

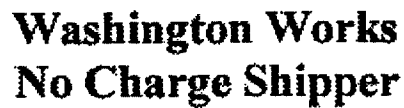
Field Blank: ☒ WWK-K-AMSFBLK-E1
yes or no

Weather:

Partly Cloudy, expected thunderstorms, ~ 62°

SAFER operational: ☒ YES
yes or no

Comments:



Routing: FED EX (SEE ABOVE ACCT)
F. O. B.: COLLECT
Date Shipped:
B / L :

[illegible]

Dimensions:
Ship From: Stores

000079

Special Instructions: This N-C-S will cover 6 shipments beginning 10/30/03.

>>> Will deliver package to Stores with completed FEDEX Bill. CRG Account Number 2230-5551-6.
Weekend samples will be delivered directly to FEDEX. <<<<

Comments:

0074

000080

0075

FedEx® USA Airbill
Express

FedEx
Tracking
Number

836391302030

1 From
Date 11/6/03
Sender's Name Steve Opp
Company DuPont CR6
Address Route 892 South, DuPont Road
City Washington State WV ZIP 26181
2 Your Internal Billing Reference 18983937.00003
3 To
Recipient's Name Sample Receiving
Company Exygen Research
Address 3117 Research Drive
City State Coll PA ZIP 16801



000081

Recipient's Copy

4a Express Package Service
☒ FedEx Priority Overnight
Next business morning
☐ FedEx Standard Overnight
Next business afternoon
☐ FedEx Express Saver
Third business day
FedEx Envelope rate not available. Minimum charge: One pound rate.
4b Express Freight Service
☐ FedEx 1Day Freight*
Next business day
☐ FedEx 2Day Freight
Second business day
☐ FedEx 3Day Freight
Third business day
5 Packaging
☐ FedEx Envelope*
☐ FedEx Pak*
Includes Small Pak, FedEx Large Pak, and FedEx Study Pak
☒ Other
6 Special Handling
☐ SATURDAY Delivery
Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes.
☐ HOLD Weekday at FedEx Location
Not available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes.
☐ HOLD Saturday at FedEx Location
Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes.
Does this shipment contain dangerous goods?
☒ No
☐ Yes
As per attached Shipper's Declaration not required.
Dangerous Goods (including Dry Ice) cannot be shipped in FedEx packaging.
Dry Ice
☐ Dry Ice 8 UN 185
☐ Dry Ice 9 UN 185
7 Payment Bill to:
☒ Sender
☐ Recipient
☐ Third Party
Enter FedEx Acct. No. Credit Card No. below.
8 Release Signature
By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.
Questions? Visit our Web site at fedex.com
or call 1.800.Go.FedEx® 800.463.3338.
New User 11011 Print #151512-61594-2001 FedEx® PRINTED IN U.S.A. WCSL 02

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