ANALYTICAL DATA REPORT PACKAGE
for

NORTH SEA LANDFILL

Surface soil
W-20

PART I

OCTOBER 1987

SEA 001

Submitted by:

H2M LABS, INC.
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Consulting Engineers, Environmental Scientists, Architects and Planners
Melville, N.Y. Riverhead, N.Y. Fairfield, N.J.

001

H2M LABS, INC.
575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040
HOLZMACHER, McLENDON and MURRELL, P.C. • ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

ANALYTICAL DATA PACKAGE
FOR
TOWN OF SOUTHAMPTON
North Sea Landfill

Soil Samples	X.BN X.AE X.PH	EPTX & EPTX Metals	PP Metals & Dig.	CN Phen TS
Surface Soil #17	762613	762614	762615	762616
Surface Soil #20	762617	762626	762635	762644
Surface Soil #19	762618	762627	762636	762645
Surface Soil #18	762619	762628	762637	762646
Surface Soil #16	762620	762629	762638	762647
Surface Soil #15	762621	762630	762639	762648
Surface Soil #14	762622	762631	762640	762649
Surface Soil #13	762623	762632	762641	762650
Surface Soil #12	762624	762633	762642	762651
Surface Soil #11	762625	762634	762643	762652

Water Samples	X.BN X.AE	P.P. Metals Ba	Cn Phen
Field Blank	762653	762655	762657
Trip Blank	762654	762656	762658

2002

LABORATORY

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H2M LABORATORY

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CASE NARRATIVE
FOR
BASE NEUTRAL/ACID EXTRACTABLES

The QC/QA data for system and method checks satisfied the required limits.

The samples as well as blanks showed low concentrations of 1,13-Tetradecadiene as well as low levels of some other contaminations. The origin of these contaminants could not be determined.

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CASE NARRATIVE FOR METALS

ICP analysis was performed on ARL 3410 ICP. All Mercury analysis was performed using the manual cold vapor method. Furnace parameters were performed on Varian GTA-96, problems are as follows:

Antimony and Silver: Matrix spike recoveries were greater than 125%. Results for soils digested were reported flagged with "N" and "E" suspecting interferences.

Arsenic: Matrix spike recovery was less than 75%. Results for soils digested were reported flagged with "N" and "E" suspecting interferences. Sample 762642 required MSA procedures, the correlation coefficient was less than 0.995. This sample result was reported flagged with "+".

Copper: Sample 762715 SS#17 soil digestion had a duplicate analysis outside the control window of plus or minus twenty micrograms. Associate soil digestion results were reported flagged with a "*".

All EPTX extractions exhibited no problems and meets all QA/QC criteria, these results were reported unflagged.

Results with increased detection limits is due to sample dilutions, concentrations were multiplied by the corresponding dilution factor and reported.

H2M LABORATORY

II. QC Summary

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Soil Surrogate Percent Recovery Summary

Sample Number	Fluoro-benzene 61-117	Bromoflu-obenzene 74-121	1,2-Di-chloro-ethane-d4 23-124	Nitrobe-nzene-d5 38-115	2 Fluo-robi phenol 16-137	Terphen-yl d-14 24-137	(1) Phenol d-5 24-113	2-Fluoro phenol 25-121	2,4,6-tribromo-phenol 19-122	Dibutyl chlor-endate 28-156
SS #17				48	69	46	60	57	63	
SS #17MS				58	80	57	68	65	65	
SS #17MSD				61	78	50	72	49	60	
SS #20				41	60	45	43	25	45	
SS #19				76	91	72	68	59	47	
SS #18				68	77	77	72	65	38	
SS #16				91	109	80	46	29	43	
SS #15				71	73	67	72	69	42	
SS #14				55	65	50	77	59	70	
SS #13				34	45	34	37	35	32	
SS #12				47	63	44	55	45	62	
SS #11				61	68	48	62	53	59	

*Values are outside of contract required QC limits
** Advisory limits only

Volatiles: out of ; outside QC limits
Semi-Volatiles: 0 out of 72 ; outside QC limits
Pesticides: out of ; outside QC limits

8000

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Water Surrogate Percent Recovery Summary

Sample Number	Fluoro-benzene 88-110	Bromoflu-obenzene 88-115	1,2-Di-chloro-ethane-d4 78-114	Nitrobe-nzene-d5 35-114	2 Fluo-robi phenol 43-116	Terphen-yl d-14 33-141	(1) Phenol d-5 10-94	2-Fluoro phenol 21-100	2,4,6-tribromo-phenol 12-123	Dibutyl chlor-endate 24-154
Meth Blk 206				53	71	72	26	37	59	
Meth Blk 207				66	79	60	58	53	37	
Field Blk				59	71	65	28	41	59	
Trip Blk				53	66	60	26	38	54	

*Values are outside of contract required QC limits
** Advisory limits only

Volatiles: out of ; outside QC limits
Semi-Volatiles: 0 out of 24 ; outside QC limits
Pesticides: out of ; outside QC limits

6000

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Soil Matrix Spike/Matrix Spike Duplicate Recovery

Scan	Sample I.D. SS #17 Compound	Conc. Spike Added(ug/kg)	Result	MS	Sample Conc. Rec.	MSD	Conc. % Rec	RPD	RPD	Recovery	
	1,1-Dichloroethene								22	59-172	
	Trichloroethene								24	62-137	
VOA	Chlorobenzene								21	60-133	
	Toluene								21	59-139	
	Benzene								21	66-142	
	1,2,4-Trichlorobenzene	4500	0	2400	54	2700	59	9	23	38-107	
	Acenaphthene	4400	0	2700	62	2700	61	2	19	31-137	
	2,4-Dinitrotoluene	4300	0	2500	58	2500	57	2	47	28-89	
B/N	Pyrene	4400	0	2200	51	2200	50	2	36	35-142	
	N-NitrosoDi-n-Propylamine	4500	0	2400	54	2200	49	10	38	41-126	
	1,4-Dichlorobenzene	4400	0	2400	54	2600	59	9	27	28-104	
	Pentachlorophenol	8700	0	4900	56	4200	48	15	47	17-109	
	Phenol	8800	0	5700	65	5600	64	2	35	26-90	
Acid	2-Chlorophenol	9600	0	5700	58	5900	61	5	50	25-102	
	4-Chloro-3-Methylphenol	8800	0	6200	71	6400	73	3	33	26-103	
	4-Nitrophenol	8800	0	7300	83	7600	86	4	50	11-114	0
	Lindane								50	46-127	
	Heptachlor								31	35-130	
	Aldrin								43	34-132	
Pest	Dieldrin								38	31-134	
	Endrin								45	42-139	
	4,4'-DDT								50	23-134	

* Asterisked values are outside QC limits.

RPD: VOAs out of ; outside QC limits
B/N 0 out of 6; outside QC limits
Acid 0 out of 5; outside QC limits
Pest out of ; outside QC limits

Recovery: VOAs out of ; outside QC limits
B/N 0 out of 12; outside QC limits
Acid 0 out of 10; outside QC limits
Pest out of ; outside QC limits

Comments:

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Method Blank Summary

File ID	Date of Analysis	Fraction	Matrix	Scan No.	Inst. ID.	C.A.S. Number	Compound (HSL,TIC,or Unknown)	Conc	Units	CRDL
P3607	10/30/87	BNA	H20	374	HP#2	108952	Phenol	8	ug/l	10
"	"	"	"	1514	"	117817	Bis(2-ethylhexyl)-phthalate	40	"	10
"	"	"	"	1151	"	----	Unknown	64	"	--
"	"	"	"	1247	"	21964498	1,13-Tetradecadiene	78	"	--
"	"	"	"	1250	"	5675514	1,12-Dodecanediol	26	"	--
P3628	11/13/87	BNA	H20	1513	HP#2	11787	Bis(2-ethylhexyl)-phthalate	49	"	10

Comments :_____

GC/MS TUNING AND MASS CALIBRATION

Decafluorotriphenylphosphine (DFTPP)

Case No. SEMI-VOL BNA Contractor H2M LABS INC. Contract No. EPA 10/87

Instrument ID HP#2 Date / Time 10/27/87 16:44

Lab ID >DF144::81 Date Release Authorized By: _____

m/z	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE	
51	30.0 - 60.0% of mass 198	53.77 OK	
68	less than 2.0% of mass 69	0.00 OK	(0.00) #1
69	mass 69 relative abundance	79.66	
70	less than 2.0% of mass 69	0.00 OK	(0.00) #1
127	40.0 - 60.0% of mass 198	44.51 OK	
197	less than 1.0% of mass 198	0.00 OK	
198	base peak, 100% relative abundance	100.00 OK	
199	5.0 - 9.0% of mass 198	7.45 OK	
275	10.0 - 30.0% of mass 198	18.82 OK	
365	greater than 1.00% of mass 198	2.10 OK	
441	present, but less than mass 443	0.40 OK	
442	greater than 40.0% of mass 198	61.70 OK	
443	17.0 - 23.0% of mass 442	12.03 OK	(19.50) #2

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

#1 - Value in parenthesis is % mass 69.
#2 - Value in parenthesis is % mass 442.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
2UL MS 44 50NG DFT	>DF144	10/27/87	16:44
10ug/ml HSL	P3585	"	17:09
25ug/ml HSL	P3586	"	18:05
40ug/ml HSL	P3587	"	19:00
60ug/ml HSL	P3588	"	19:56
80ug/ml HSL	P3589	"	20:51

GC/MS TUNING AND MASS CALIBRATION

Decafluorotriphenylphosphine (DFTPP)

Case No. SEMI-VOL BNA Contractor H2M LABS INC. Contract No. EPA 10/87

Instrument ID HP#2 Date / Time 10/29/87 21:11

Lab ID >DF146::B1 Date Release Authorized By: _____

m/z	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE	
51	30.0 - 60.0% of mass 198	58.39 OK	
68	less than 2.0% of mass 69	0.00 OK	(0.00) #1
69	mass 69 relative abundance	76.18	
70	less than 2.0% of mass 69	0.00 OK	(0.00) #1
127	40.0 - 60.0% of mass 198	41.61 OK	
197	less than 1.0% of mass 198	0.00 OK	
198	base peak, 100% relative abundance	100.00 OK	
199	5.0 - 9.0% of mass 198	6.19 OK	
275	10.0 - 30.0% of mass 198	21.73 OK	
365	greater than 1.00% of mass 198	1.62 OK	
441	present, but less than mass 443	8.66 OK	
442	greater than 40.0% of mass 198	63.26 OK	
443	17.0 - 23.0% of mass 442	12.61 OK	(19.93) #2

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

#1 - Value in parenthesis is % mass 69.
#2 - Value in parenthesis is % mass 442.

SAMPLE ID	LAB_ID	DATE_OF_ANALYSIS	TIME_OF_ANALYSIS
12UL MS 44 50NG DFT	>DF146	10/29/87	21:11
25ug/ml HSL	P3602	"	21:35
Method Blank 207	P3607	10/30/87	02:23
SS #19	P3608	"	03:18
SS #18	P3609	"	04:13
SS #15	P3610	"	05:09

0013

GC/MS TUNING AND MASS CALIBRATION

Decafluorotriphenylphosphine (DFTPP)

Case No. SEMI-VOL BNA Contractor H2M LABS INC. Contract No. EPA 10/87

Instrument ID HP#2 Date / Time 11/03/87 10:50

Lab ID >DF149::B1 Date Release Authorized By: _____

m/z	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	59.35 OK
68	less than 2.0% of mass 69	0.00 OK (0.00) #1
69	mass 69 relative abundance	73.98
70	less than 2.0% of mass 69	0.00 OK (0.00) #1
127	40.0 - 60.0% of mass 198	40.48 OK
197	less than 1.0% of mass 198	0.00 OK
198	base peak, 100% relative abundance	100.00 OK
199	5.0 - 9.0% of mass 198	6.10 OK
275	10.0 - 30.0% of mass 198	19.40 OK
365	greater than 1.00% of mass 198	2.26 OK
441	present, but less than mass 443	10.22 OK
442	greater than 40.0% of mass 198	68.23 OK
443	17.0 - 23.0% of mass 442	13.30 OK (19.49) #2

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

#1 - Value in parenthesis is % mass 69.
#2 - Value in parenthesis is % mass 442.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
2UL MS 44 50NG DFT	>DF149	11/03/87	10:50
25ug/ml HSL	P3627	"	11:05
Method Blank 2	06 P3628	"	12:06
Field Blank	P3629	"	13:02
Trip Blank	P3630	"	13:57
SS #20	P3631	"	14:53
SS #16	P3632	"	15:49
SS #1	P3633	"	16:45
SS #13	P3634	"	17:40
SS #12	P3635	"	18:37
SS #11	P3636	"	19:34
SS #17	P3637	"	20:31
SS #17 MS	P3638	"	21:27
SS #17 MSD	P3639	"	22:24

Form II A

Q. C. Report No. _____

INITIAL AND CONTINUING CALIBRATION VERIFICATION[3]

LAB NAME H2M LABS INC CASE NO. NORTH SEA

SOW NO. (7)

DATE 12/23/87 UNITS: ug/L

Compound	Initial Calib.[1]			Continuing Calibration[2]					
Metals:	True Value	Found	%R	True Value	Found	%R	Found	%R	Method[4]
1. Aluminum									
2. Antimony	100	108	108	100	109	109	102	102	F
3. Arsenic	50	51	102	50	50	100	51	102	F
4. Barium	40000	38300	95	40000	39900	100	39600	99	P
5. Beryllium	1000	940	94	1000	970	97			P
6. Cadmium	1000	910	91	1000	940	94	930	93	P
7. Calcium									
8. Chromium	2000	1990	99	2000	2050	103	2030	102	P
9. Cobalt									
10. Copper	5000	4780	96	5000	4830	97			P
11. Iron									
12. Lead	50	51	102	50	50	100	51	102	F
13. Magnesium									
14. Manganese									
15. Mercury	5.0	5.0	100	5.0	5.1	110	5.0	100	COLD VAPOR
16. Nickel	8000	7400	93	8000	7800	98			P
17. Potassium									
18. Selenium	50	50	100	50	49	98	51	102	F
19. Silver	2000	1840	92	2000	1900	95	1890	94	P
20. Sodium									
21. Thallium	50	55	110	50	46	92	53	106	F
22. Vanadium									
23. Zinc	4000	3650	91	4000	3860	97			P
Other:									
Cyanide									

[1] Initial Calibration Source LEEMAN LABS Continuing Calibration Source INORGANIC VENTURES

[3] Control Limits: Mercury and Tin 80-120; Other Metals 90-110; Cyanide 85-115

[4] Indicate Analytical Method Used: P - ICP; A - Flame AA; F - Furnace AA

Form II B

Q. C. Report No. _____

INITIAL AND CONTINUING CALIBRATION VERIFICATION[3]

LAB NAME H2M LABS INC CASE NO. NORTH SEA

SOW NO. (7)

DATE 12/23/87 UNITS: ug/L

Compound	Calib.[1]			Continuing Calibration[2]					
Metals:	True Value	Found	%R	True Value	Found	%R	Found	%R	Method[4]
1. Aluminum									
2. Antimony									
3. Arsenic	50	49	98	50	49	98			F
4. Barium									
5. Beryllium									
6. Cadmium									
7. Calcium									
8. Chromium									
9. Cobalt									
10. Copper									
11. Iron									
12. Lead									
13. Magnesium									
14. Manganese									
15. Mercury									
16. Nickel									
17. Potassium									
18. Selenium	50	52	104	50	47	94			F
19. Silver									
20. Sodium									
21. Thallium	50	54	108						F
22. Vanadium									
23. Zinc									
Other: _____									
Cyanide									

[1] Initial Calibration Source _____ [2] Continuing Calibration Source _____

[3] Control Limits: Mercury and Tin 80-120; Other Metals 90-110; Cyanide 85-115

[4] Indicate Analytical Method Used: P - ICP; A - Flame AA; F - Furnace AA

9016

Form III

Q. C. Report No. _____

BLANKS

LAB NAME H2M LABS INC CASE NO. NORTH SEA (7)

DATE 12/23/87 UNITS UG/L

Compound	Initial Calibration Blank Value	Continuing Calibration Blank Value 1	2	3	4	Preparation Blank Matrix: SOIL DIG 1	Matrix: EPTOX 2
Metals:							
1. Aluminum							
2. Antimony	<60	(5)	<60			(5) <60	NR
3. Arsenic	<10	(9)	<10			(5) <10	(4) <10
4. Barium	<200	<200	<200			<200	<200
5. Beryllium	<5	<5	<5			<5	
6. Cadmium	<5	<5	<5			<5	<5
7. Calcium							
8. Chromium	<10	<10	<10			<10	<10
9. Cobalt							
10. Copper	<25	<25	<25			<25	NR
11. Iron							
12. Lead	<5	(7)	<5			(9) <5	(3) <5
13. Magnesium							
14. Manganese							
15. Mercury	<0.2	<0.2	<0.2	<0.2		NR	<0.2
16. Nickel	<40	<40	<40			<40	NR
17. Potassium							
18. Selenium	<5	(9)	<5			(5) <5	(4) <5
19. Silver	<10	<10	<10			<10	<10
20. Sodium							
21. Thallium	<10	(5)	<10			(5) <10	NR
22. Vanadium							
23. Zinc	<20	<20	<20			<20	NR
Other:							
Cyanide							

[1] Reporting Units: aqueous, ug/L; solid mg/kg

Form IV

Q. C. Report No. _____

ICP INTERFERENCE CHECK SAMPLE

LAB NAME H2M LABS INC. CASE NO. NORTH SEA (7)

DATE 12/23/87 Check Sample I.D. INTERELEMENT INTERFERENCE ST

Check Sample Source INORGANIC VENTURES INC.

Units: ug/L

Compound	Control Limits[1] Mean	Control Limits[1] Std. Dev.	True[2]	Initial Observed	%R	Final Observed	%R
Metals:		% RSD					
1. Aluminum							
2. Antimony							
3. Arsenic							
4. Barium	1940	0.563	2000	1910	100	1960	101
5. Beryllium	2280	0.721	2310	2270	100	2290	100
6. Cadmium	1900	0.541	2000	1900	100	1910	100
7. Calcium							
8. Chromium	1890	0.671	2000	1890	100	1860	98
9. Cobalt							
10. Copper	1900	0.564	2000	1890	99	1900	100
11. Iron							
12. Lead							
13. Magnesium							
14. Manganese							
15. Mercury							
16. Nickel	1810	0.595	2000	1800	100	1770	98
17. Potassium							
18. Selenium							
19. Silver							
20. Sodium							
21. Thallium							
22. Vanadium							
23. Zinc	1850	0.661	2000	1880	101	1890	102
Other:							

[1] Mean value based on n = (5).

[2] True value of EPA ICP Interference Check Sample or contractor standard.

0018

Form V

Q. C. Report No. _____

SPIKE SAMPLE RECOVERY

LAB NAME H2M LABS INC.

DATE 12/23/87

CASE NO. N.SEA (7)
EPA Sample No. SS #17
Lab Sample ID No. 762614
Units ug/L

Matrix EPTOX

Compound	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spiked Added (SA)	%R[1]
Metals:					
1. Aluminum	75-125				
2. Antimony	"	NR			
3. Arsenic	"	33	<10	40	83
4. Barium	"	2000	<200	2000	100
5. Beryllium	"				
6. Cadmium	"	48	<5	50	96
7. Calcium	"				
8. Chromium	"	105	<10	100	105
9. Cobalt	"				
10. Copper	"				
11. Iron	"				
12. Lead	"	23	<5	20	115
13. Magnesium	"				
14. Manganese	"				
15. Mercury	"	1.4	0.4	1.0	100
16. Nickel	"				
17. Potassium	"				
18. Selenium	"				
19. Silver	"	100	<10	100	100
20. Sodium	"				
21. Thallium	"	NR			
22. Vanadium	"				
23. Zinc	"				
Other:					
Cyanide	"				

[1] %R = [(SSR - SR)/SA] x 100

"N" - out of control

"NR" - Not required

Comments: _____

Form V

Q. C. Report No. _____

SPIKE SAMPLE RECOVERY

LAB NAME H2M LABS INC

DATE 12/28/87

CASE NO. N.SEA (7)

EPA Sample No. SS#17

Lab Sample ID No. 762615

Units ug/L

Matrix SOIL DIG.

Compound	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spiked Added (SA)	%R[1]	
Metals:						
1. Aluminum	75-125					
2. Antimony	"	154	<60	100	154	N
3. Arsenic	"	22	<10	40	55	N
4. Barium	"					
5. Beryllium	"	45	<5	50	90	
6. Cadmium	"	50	<5	50	100	
7. Calcium	"					
8. Chromium	"	130	20	100	110	
9. Cobalt	"					
10. Copper	"	290	70	200	110	
11. Iron	"					
12. Lead	"	46	22	20	110	
13. Magnesium	"					
14. Manganese	"					
15. Mercury	"	1.3	0.3	1.0	100	
16. Nickel	"	380	<40	400	95	
17. Potassium	"					
18. Selenium	"	10	<5	10	100	
19. Silver	"	140	<10	100	140	N
20. Sodium	"					
21. Thallium	"	19	<10	20	95	
22. Vanadium	"					
23. Zinc	"	230	60	200	85	
Other:						
Cyanide	"					

[1] %R = [(SSR - SR)/SA] x 100

"N" - out of control

"NR" - Not required

Comments: _____

0020

Form VI

Q. C. Report No. _____

DUPLICATES

LAB NAME H2M LABS INC

DATE 12/23/87

CASE NO. N SEA (7)

EPA Sample No. SS#17

Lab Sample ID No. 762614

Units ug/l *

Matrix EPTOX

Compound	Control Limit[1]	Sample(S)	Duplicate(D)	RPD[2]
Metals:				
1. Aluminum				
2. Antimony				
3. Arsenic	±10 *	<10	<10	NC
4. Barium	±200 *	<200	<200	NC
5. Beryllium				
6. Cadmium	±5 *	<5	<5	NC
7. Calcium				
8. Chromium	±10 *	<10	<10	NC
9. Cobalt				
10. Copper				
11. Iron				
12. Lead	±5 *	<5	<5	NC
13. Magnesium				
14. Manganese				
15. Mercury	±0.2	0.4	0.4	0
16. Nickel				
17. Potassium				
18. Selenium	±5 *	<5	<5	NC
19. Silver	±10 *	<10	<10	NC
20. Sodium				
21. Thallium				
22. Vanadium				
23. Zinc				
Other:				
Cyanide				

* Out of Control

[1] To be added at a later date.

[2] RPD = [|S - D|/((S + D)/2)] x 100

NC - Non calculable RPD due to value(s) less than CRDL

Form VI

Q. C. Report No. _____

DUPLICATES

LAB NAME H2M LABS INC

DATE 12/23/87

CASE NO. NSA (7)
EPA Sample No. SSH17
Lab Sample ID No. 36265
Units ug/L *

Matrix Soil DIG

Compound	Control Limit[1]	Sample(S)	Duplicate(D)	RPD[2]
Metals:				
1. Aluminum				
2. Antimony	±60	<60	<60	NC
3. Arsenic	±10*	<10	<10	NC
4. Barium				
5. Beryllium	±5 *	<5	<5	NC
6. Cadmium	±5 *	<5	5	NC
7. Calcium				
8. Chromium	±10 *	20	20	0
9. Cobalt				
10. Copper	±20 *	70	30	80 *
11. Iron				
12. Lead	±5*	22.5	23.0	2.2
13. Magnesium				
14. Manganese				
15. Mercury	±0.2	0.3	0.3	0
16. Nickel	±40 *	<40	<40	NC
17. Potassium				
18. Selenium	±5 *	<5	<5	NC
19. Silver	±10 *	<10	<10	NC
20. Sodium				
21. Thallium	±10 *	<10	<10	NC
22. Vanadium				
23. Zinc	±20 *	60	60	0
Other:				
Cyanide				

* Out of Control

[1] To be added at a later date.

[2] RPD = [|S - D|/((S + D)/2)] x 100

NC - Non calculable RPD due to value(s) less than CRDL

Form VII

Q.C. Report No. _____

INSTRUMENT DETECTION LIMITS AND

LABORATORY CONTROL SAMPLE

LAB NAME H2M LABS INC CASE NO. NSea 7 DATE 12/23/87

LCS NO. _____

Compound	Required Detection Limits (CRDL)-ug/l	Instrument Detection Limits (IDL)-ug/l ICP/AA ID# ARL 3410	Instrument Detection Limits (IDL)-ug/l Furnace ID# VARIAN GTA-96	Lab Control Sample ug/L mg/kg (circle one) True	Found	%R
Metals:						
1. Aluminum	200	8				
2. Antimony	60		5	100	106	106
3. Arsenic	10		5	50	52	104
4. Barium	200	1		40000	38400	95
5. Beryllium	5	0.3		1000	930	93
6. Cadmium	5	1.5		1000	895	90
7. Calcium	5000	3.9				
8. Chromium	10	2.6		2000	1980	99
9. Cobalt	50					
10. Copper	25	1.4		5000	4800	96
11. Iron	100	1.6				
12. Lead	5		5	50	53	106
13. Magnesium	5000	7.4				
14. Manganese	15					
15. Mercury	0.2			5.0	5.0	100
16. Nickel	40	12		8000	7500	94
17. Potassium	5000					
18. Selenium	5		5	50	51	102
19. Silver	10	1.8		2000	1850	93
20. Sodium	5000					
21. Thallium	10		5	50	52	104
22. Vanadium	50					
23. Zinc	20	0.6		4000	3600	90
Other:						
Cyanide	10	NR	NR			

NR - Not required

Form VIII

Q.C. Report No. _____

STANDARD ADDITION RESULTS

LAB NAME HDM LABS INC CASE NO. N.SEA (7)

DATE 12/23/87 UNITS: ug/L

EPA Sample #	Element	Matrix	0 ADD ABS.	1 ADD CON.	1 ADD ABS.[2]	2 ADD CON.	2 ADD ABS.[2]	3 ADD CON.	3 ADD ABS.[2]	FINAL CON.[3]	r*	
762642	As	SOIL	528	10	600	20	701	30	750	69	992	+

[1] Matrix abbreviations: Low Solid, LS; Medium Solid, MS; Low Aqueous, LA; Medium Aqueous, MA.

[2] CON is the concentration added, ABS. is the instrument readout in absorbance or concentration.

[3] Concentration as determined by MSA

*"r" is the correlation coefficient.

+ - correlation coefficient is outside of control window of 0.995.

Form X

QC Report No. _____

HOLDING TIMES

LAB NAME H2M LABS INC.

DATE 12/23/87 CASE NO. NSEA (7)

EPA Sample No.	Matrix	Date Received	Mercury Prep Date	Mercury Holding Time[1] (Days)	CN Prep Date	CN Holding Time[1] (Days)
762614	~~SOIL~~	10/14/87	11/4/87	(21)	NR	NR
626						
627						
628						
629						
630						
631						
632						
633						
634						
615	SOIL				10/27	(13)
635						
636						
637						
638						
639						
640						
641						
642						
643						
655	WATER					
656	WATER					

[1]Holding time is defined as number of days between the date received and the sample preparation date.

Form XI (Quarterly)
INSTRUMENT DETECTION LIMITS

LAB NAME H2M LABS INC DATE 10/14/87

(ICP)/Flame AA (Circle One) Model Number ARL 3410 Furnace AA Number ____

Element	Wavelength (nm)	CRDL (ug/L)	IDL (ug/L)	Element	Wavelength (nm)	CRDL (ug/L)	IDL (ug/L)
1. Aluminum	—	200	—	13. Magnesium	279.079	5000	7.4
2. Antimony	206.833	60	9	14. Manganese	257.61	15	0.9
3. Arsenic	193.759	10	60	15. Mercury	253.65	0.2	<0.2
4. Barium	455.403	200	1	16. Nickel	231.604	40	1.2
5. Beryllium	234.861	5	0.3	17. Potassium	—	5000	—
6. Cadmium	226.502	5	1.5	18. Selenium	196.09	5	24
7. Calcium	422.673	5000	39	19. Silver	328.068	10	1.8
8. Chromium	205.562	10	2.6	20. Sodium	588.995	5000	7
9. Cobalt	—	50	—	21. Thallium	—	10	F2
10. Copper	324.754	25	1.4	22. Vanadium	—	50	—
11. Iron	259.940	100	1.6	23. Zinc	213.856	20	.6
12. Lead	220.353	5	15				

Footnotes:
- Indicate the instrument for which the IDL applies with a "P" (for ICP), an "A" (for Flame AA), or an "F" (for Furnace AA) behind the IDL value.
- Indicate elements commonly run with background correction (AA) with a "B" behind the analytical wavelength.
- If more than one ICP/Flame or Furnace AA is used, submit separate Forms XI-XIII for each instrument.

COMMENTS: _____

Lab Manager Janine Hall

0026

Form XII (Quarterly)

ICP Interelement Correction Factors

LABORATORY H2M LABS INC. ICP Model Number ARL 3410

DATE 12/23/87

Analyte	Analyte Wavelength (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Na			
1. Antimony		$1X10^{-3}$	$7X10^{-5}$	$1X10^{-4}$	$10X10^{-5}$				
2. Arsenic									
3. Barium									
4. Beryllium				$4X10^{-5}$					
5. Cadmium		$7X10^{-5}$		$3X10^{-4}$					
6. Chromium				$2X10^{-4}$	$2X10^{-5}$				
7. Cobalt									
8. Copper				$2X10^{-4}$					
9. Lead									
10. Manganese				$3X10^{-3}$		$4X10^{-5}$			
11. Mercury									
12. Nickel				$2X10^{-4}$					
13. Potassium									
14. Selenium									
15. Silver			$3X10^{-5}$	$1X10^{-4}$					
16. Sodium									
17. Thallium									
18. Vanadium									
19. Zinc				$1X10^{-4}$					

COMMENTS: _____

Lab Manager _____

4286

Form XIII (Quarterly)
ICP Linear Ranges

LAB NAME H2M LABS INC ICP Model Number ARL 3410

DATE 12/23/87

Analyte	Integration Time (Seconds)	Concentration (ug/L)	Analyte	Integration Time (Seconds)	Concentration (ug/L)
1. Aluminum	(1)	300,000	13. Magnesium	(1)	100,000
2. Antimony			14. Manganese		
3. Arsenic			15. Mercury		
4. Barium			16. Nickel	(1)	300,000
5. Beryllium	(1)	10,000	17. Potassium		
6. Cadmium	(1)	30,000	18. Selenium		
7. Calcium	(1)	500,000	19. Silver	(1)	20,000
8. Chromium	(1)	300,000	20. Sodium		
9. Cobalt			21. Thallium		
10. Copper	(1)	300,000	22. Vanadium		
11. Iron	(1)	300,000	23. Zinc	(1)	300,000
12. Lead					

Footnotes: • Indicate elements not analyzed by ICP with the notation "NA".

COMMENTS: _____

Lab Manager Janine Hew

8205

H2M LABORATORY

III. Sample Data Package

1. Reports for scans:

	GC/MS Volatiles
X	GC/MS Extractables
	Pesticides/PCB's
	GC Volatiles
X	Inorganics

2. Reporting Packages for Individual Samples

a. Chain of Custody and Documents
b. Raw Data

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.

Date 12/23/87

INORGANIC ANALYSIS DATA SHEET

LAB NAME H2M LABS INC CASE NO. N SeA (7)

SOW NO. _____ Lab Receipt Date 10/14/87

LAB SAMPLE ID. NO. _____ QC REPORT NO. _____

Elements Identified and Measured

Concentration: Low X Medium _____

Matrix: Water _____ Soil X Sludge _____ Other _____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	13.	Magnesium
2.	Antimony	14.	Manganese
3.	Arsenic	15.	Mercury
4.	Barium	16.	Nickel
5.	Beryllium	17.	Potassium
6.	Cadmium	18.	Selenium
7.	Calcium	19.	Silver
8.	Chromium	20.	Sodium
9.	Cobalt	21.	Thallium
10.	Copper	22.	Vanadium
11.	Iron	23.	Zinc
12.	Lead	Precent Solids (%)	

Cyanide _____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: FOR INDIVIDUAL SAMPLE RESULTS SEE H2M LABS INC. REPORTS

Lab Manager _____

DATA REPORTING QUALIFIERS

Value - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U- compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g.: If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.)

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides $\geq$10 ng/ul in the final extract should be confirmed by GC/MS.

B - This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

Date 12/23/84

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name H2M LABS INC. Case No. NORTH SEA
SOW No. N.SEA(7) Q.C. Report No. (7)

Sample Numbers

EPA No.	EPTOX Lab ID No.	DIG/METALS	CN, PHEN, TS
SS#17 MS/MSD	762614	762615	762616
SS#20	626	635	644
SS#19	627	636	645
SS#18	628	637	646
SS#16	629	638	647
SS#15	630	639	648
SS#14	631	640	649
SS#13	632	641	650

Comments:

ICP interelement and background corrections applied? Yes X No ___.

If yes, corrections applied before X or after ___ generation of raw data.

Footnotes:

NR - Not required by contract at this time
Form 1:
Value - If the result is a value greater than or equal to the instrument detecion limit but less than the contract-required detection limit, report the value in brackets (i.e., [10]). Indicate the analytical method used with P (for ICP), A (for Flame AA) or F (for Furnace AA).
< - Indicates element was analyzed for but not detected. Report with the instrument detection limit value (e.g., 10U).
E - Indicates a value estimated or not reported due to the presence of interference. Explanatory note included on cover page.
S - Indicates value determined by Method of Standard Addition.
N - Indicates spike sample recovery is not within control limits.
* - Indicates duplicate analysis is not within control limits.
+ - Indicates the correlation coefficient for method of standard addition is less than 0.995
M - Indicates duplicate injection results exceeded control limits.

Indicate method used: P for ICP; A for Flame AA and F for Furnace.

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

Date 12/23/87

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name H2M LABS INC. Case No. NORTH SEA

SOW No. _____ Q.C. Report No. (7)

EPTOX Sample Numbers

EPA No.	Lab ID No.	DIG/METALS	CN. PHEN. TS
SS#12	762633	762642	762651
SS#11	762634	643	652
FIELD BLANK	—	655	657
TRIP BLANK	—	656	658

Comments: _____

ICP interelement and background corrections applied? Yes ____ No ____.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnotes:

NR - Not required by contract at this time

Form I:

Value - If the result is a value greater than or equal to the instrument detecion limit but less than the contract-required detection limit, report the value in brackets (i.e., [10]). Indicate the analytical method used with P (for ICP), A (for Flame AA) or F (for Furnace AA).

< - Indicates element was analyzed for but not detected. Report with the instrument detection limit value (e.g., 10U).

E - Indicates a value estimated or not reported due to the presence of interference. Explanatory note included on cover page.

S - Indicates value determined by Method of Standard Addition.

N - Indicates spike sample recovery is not within control limits.

* - Indicates duplicate analysis is not within control limits.

+ - Indicates the correlation coefficient for method of standard addition is less than 0.995

M - Indicates duplicate injection results exceeded control limits.

Indicate method used: P for ICP; A for Flame AA and F for Furnace.

H2M LABS, INC.
575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040
HOLZMACHER, McLENDON and MURRELL, P.C. • ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Town of Southampton
Hampton Road
Southampton, NY 11968

Sample Lab No. 762613
Sample I.D. Surface Soil #17 Date Collected: 10/14/87
Conc. factor. 12 Date Received: 10/14/87
Town of Southampton North Sea Landfill Concentration: Low
Collected By: JFA 03

Scan #	C.A.S. Number		ug/kg	C.A.S. Number		ug/kg	Scan
	65-75-9	N-Nitrosodimethylamine	860U	83-32-9	Acenaphthene	860U	
	108-95-2	Phenol	860U	51-28-5	2,4-Dinitrophenol	4300U	
	111-44-4	bis(2-Chloroethyl)ether	860U	100-02-7	4-Nitrophenol	4300U	
	95-57-8	2-Chlorophenol	860U	121-14-2	2,4-Dinitrotoluene	860U	
	541-73-1	1,3-Dichlorobenzene	860U	606-20-2	2,6-Dinitrotoluene	860U	
	106-46-7	1,4-Dichlorobenzene	860U	84-66-2	Diethylphthalate	860U	
	95-50-1	1,2-Dichlorobenzene	860U	7005-72-3	4-Chlorophenyl-phenylether	860U	
	39638329	bis(2-chloroisopropyl)ether	860U	86-73-7	Fluorene	860U	
	621-64-7	N-Nitroso-Di-n-propylamine	860U	534-52-1	4,6-Dinitro-2-Methylphenol	4300U	
	67-72-1	Hexachloroethane	860U	86-30-6	N-Nitrososdiphenylamine 1)	860U	
	98-95-3	Nitrobenzene	860U				
	78-59-1	Isophorone	860U	101-55-3	4-Bromophenyl-phenylether	860U	
	88-75-5	2-Nitrophenol	860U	118-74-1	Hexachlorobenzene	860U	
	105-67-9	2,4-Dimethylphenol	860U	87-86-5	Pentachlorophenol	4300U	
	120-82-1	1,2,4-Trichlorobenzene	860U	85-01-8	Phenanthrene	860U	
	111-91-1	bis(2-Chloroethoxy)Methane	860U	120-12-7	Anthracene	860U	
	120-83-2	2,4-Dichlorophenol	860U	84-74-2	Di-n-Butylphthalate	860U	
	91-20-3	Naphthalene	860U	206-44-0	Fluoranthene	860U	
	87-68-3	Hexachlorobutadiene	860U	129-00-0	Pyrene	860U	
	59-50-7	4-Chloro-3-methylphenol	860U	85-68-7	Butylbenzylphthalate	860U	
	77-47-4	Hexachlorocyclopentadiene	860U	91-94-1	3,3'-Dichlorobenzidine	1700U	
	88-06-2	2,4,6-Trichlorophenol	860U	56-55-3	Benzo(a)Anthracene	860U	
	91-58-7	2-Chloronaphthalene	860U	117-81-7	bis(2-Ethylhexyl)Phthalate	860U	
	131-11-3	Dimethyl Phthalate	860U	218-01-9	Chrysene	860U	
	208-96-8	Acenaphthylene	860U	117-84-0	Di-n-Octyl Phthalate	860U	
				205-99-2	Benzo(b)Fluoranthene	860U	
				207-08-9	Benzo(k)Fluoranthene	860U	
				50-32-8	Benzo(a)Pyrene	860U	
				193-39-5	Indeno(1,2,3-cd)Pyrene	860U	
				53-70-3	Dibenzo(a,h)Anthracene	860U	
				191-24-2	Benzo(g,h,i)Perylene	860U	
				92-87-5	Benzidine	7000U	

(1) - Cannot be separated from diphenylamine

Date Reported: 11/19/87

****
* .*
* McLendon*
****
S.C. McLendon, P.E.
Laboratory Director

ESU 4

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS#17

Lab Name: H2M LABS INC. Contract: EPA 10/87

Lab Code: HP001 Case No.: TSH 10/8 SAS No.: EPA SDG No.: HP#2

Matrix: (soil/water) SOIL Lab Sample ID: 762613

Sample wt/vol: 25.2888(g/mL) G Lab File ID: >P3637

Level: (low/med) LOW Date Received: 10/14/87

% Moisture: not dec.0 __ dec. 0___ Date Extracted: 10/20/87

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 11/03/87

GPC Cleanup: (Y/N) ~~N~~ Y pH: 7.2 Dilution Factor: 1.00000

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	21964498	1,13-Tetradecadiene (8CI9CI)	29.29	930.	JB
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

H2M LABS, INC.
575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040
HOLZMACHER, McLENDON and MURRELL, P.C. • ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Town of Southampton Sample Lab No. 762617
Hampton Road Sample I.D. Surface Soil #20 Date Collected: 10/14/87
Southampton, NY 11968 Conc. factor. 12 Date Received: 10/14/87
Town of Southampton North Sea Landfill Concentration: Low
Collected By: JFA 03 Percent Moisture(Decanted) 5

Scan #	C.A.S. Number		ug/kg	C.A.S. Number		ug/kg	Scan
	65-75-9	N-Nitrosodimethylamine	830U	83-32-9	Acenaphthene	830U	
	108-95-2	Phenol	830U	51-28-5	2,4-Dinitrophenol	4200U	
	111-44-4	bis(2-Chloroethyl)ether	830U	100-02-7	4-Nitrophenol	4200U	
	95-57-8	2-Chlorophenol	830U	121-14-2	2,4-Dinitrotoluene	830U	
	541-73-1	1,3-Dichlorobenzene	830U	606-20-2	2,6-Dinitrotoluene	830U	
	106-46-7	1,4-Dichlorobenzene	830U	84-66-2	Diethylphthalate	830U	
	95-50-1	1,2-Dichlorobenzene	830U	7005-72-3	4-Chlorophenyl-phenylether	830U	
	39638329	bis(2-chloroisopropyl)ether	830U	86-73-7	Fluorene	830U	
	621-64-7	N-Nitroso-Di-n-propylamine	830U	534-52-1	4,6-Dinitro-2-Methylphenol	4200U	
	67-72-1	Hexachloroethane	830U	86-30-6	N-Nitrososdiphenylamine 1)	830U	
	98-95-3	Nitrobenzene	830U				
	78-59-1	Isophorone	830U	101-55-3	4-Bromophenyl-phenylether	830U	
	88-75-5	2-Nitrophenol	830U	118-74-1	Hexachlorobenzene	830U	
	105-67-9	2,4-Dimethylphenol	830U	87-86-5	Pentachlorophenol	4200U	
	120-82-1	1,2,4-Trichlorobenzene	830U	85-01-8	Phenanthrene	830U	
	111-91-1	bis(2-Chloroethoxy)Methane	830U	120-12-7	Anthracene	830U	
	120-83-2	2,4-Dichlorophenol	830U	84-74-2	Di-n-Butylphthalate	830U	
	91-20-3	Naphthalene	830U	206-44-0	Fluoranthene	830U	
	87-68-3	Hexachlorobutadiene	830U	129-00-0	Pyrene	830U	
	59-50-7	4-Chloro-3-methylphenol	830U	85-68-7	Butylbenzylphthalate	830U	
	77-47-4	Hexachlorocyclopentadiene	830U	91-94-1	3,3'-Dichlorobenzidine	1700U	
	88-06-2	2,4,6-Trichlorophenol	830U	56-55-3	Benzo(a)Anthracene	830U	
	91-58-7	2-Chloronaphthalene	830U	117-81-7	bis(2-Ethylhexyl)Phthalate	8100B	1514
	131-11-3	Dimethyl Phthalate	830U	218-01-9	Chrysene	830U	
	208-96-8	Acenaphthylene	830U	117-84-0	Di-n-Octyl Phthalate	830U	
				205-99-2	Benzo(b)Fluoranthene	830U	
				207-08-9	Benzo(k)Fluoranthene	830U	
				50-32-8	Benzo(a)Pyrene	830U	
				193-39-5	Indeno(1,2,3-cd)Pyrene	830U	
				53-70-3	Dibenzo(a,h)Anthracene	830U	
				191-24-2	Benzo(g,h,i)Perylene	830U	
				92-87-5	Benzidine	6600U	

(1) - Cannot be separated from diphenylamine

Date Reported: 11/19/87

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S.C. McLendon, P.E.
Laboratory Director

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS#20

Lab Name: H2M LABS INC. Contract: EPA 10/87

Lab Code: HP001 Case No.: TSH 10/8SAS No.: EPA SDG No.: HP#2

Matrix: (soil/water) SOIL Lab Sample ID: 762617

Sample wt/vol: 25.0967(g/mL) G Lab File ID: >P3631

Level: (low/med) LOW Date Received: 10/14/87

% Moisture: not dec. 0 dec. 0 Date Extracted: 10/20/87

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 11/03/87

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.00000

Number TICs found: 12 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	13.10	360.	J
2.		Unknown	16.66	340.	J
3.		Unknown	17.68	360.	J
4.		Unknown	29.48	460.	J
6.	629787	Heptadecane (8CI9CI)	31.91	560.	J
7.		Unknown	33.02	1200.	J
8.		Unknown	33.35	840.	J
9.	54833486	Heptadecane, 2,6,10,15-tetra[illegible]	35.05	630.	J
10.	7225641	Heptadecane, 9-octyl- (8CI9C	36.01	340.	J
12.	629992	Pentacosane (8CI9CI)	37.86	420.	J
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H2M LABS, INC.
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HOLZMACHER, McLENDON and MURRELL, P.C. • ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Town of Southampton Sample Lab No. 762618
Hampton Road Sample I.D. Surface Soil #19 Date Collected: 10/14/87
Southampton, NY 11968 Conc. factor. 22 Date Received: 10/14/87
Town of Southampton North Sea Landfill Concentration: Low
Collected By: JFA 03 Percent Moisture(Decanted) 11

Scan #	C.A.S. Number		ug/kg	C.A.S. Number		ug/kg	Sc
	65-75-9	N-Nitrosodimethylamine	440U	83-32-9	Acenaphthene	440U	
	108-95-2	Phenol	440U	51-28-5	2,4-Dinitrophenol	2200U	
	111-44-4	bis(2-Chloroethyl)ether	440U	100-02-7	4-Nitrophenol	2200U	
	95-57-8	2-Chlorophenol	440U	121-14-2	2,4-Dinitrotoluene	440U	
	541-73-1	1,3-Dichlorobenzene	440U	606-20-2	2,6-Dinitrotoluene	440U	
	106-46-7	1,4-Dichlorobenzene	440U	84-66-2	Diethylphthalate	440U	
	95-50-1	1,2-Dichlorobenzene	440U	7005-72-3	4-Chlorophenyl-phenylether	440U	
	39638329	bis(2-chloroisopropyl)ether	440U	86-73-7	Fluorene	440U	
	621-64-7	N-Nitroso-Di-n-propylamine	440U	534-52-1	4,6-Dinitro-2-Methylphenol	2200U	
	67-72-1	Hexachloroethane	440U	86-30-6	N-Nitrososdiphenylamine 1)	440U	
	98-95-3	Nitrobenzene	440U				
	78-59-1	Isophorone	440U	101-55-3	4-Bromophenyl-phenylether	440U	
	88-75-5	2-Nitrophenol	440U	118-74-1	Hexachlorobenzene	440U	
	105-67-9	2,4-Dimethylphenol	440U	87-86-5	Pentachlorophenol	2200U	
	120-82-1	1,2,4-Trichlorobenzene	440U	85-01-8	Phenanthrene	440U	
	111-91-1	bis(2-Chloroethoxy)Methane	440U	120-12-7	Anthracene	440U	
	120-83-2	2,4-Dichlorophenol	440U	84-74-2	Di-n-Butylphthalate	160J	1187
	91-20-3	Naphthalene	440U	206-44-0	Fluoranthene	440U	
	87-68-3	Hexachlorobutadiene	440U	129-00-0	Pyrene	440U	
	59-50-7	4-Chloro-3-methylphenol	440U	85-68-7	Butylbenzylphthalate	440U	
	77-47-4	Hexachlorocyclopentadiene	440U	91-94-1	3,3'-Dichlorobenzidine	880U	
	88-06-2	2,4,6-Trichlorophenol	440U	56-55-3	Benzo(a)Anthracene	440U	
	91-58-7	2-Chloronaphthalene	440U	117-81-7	bis(2-Ethylhexyl)Phthalate	620B	1513
	131-11-3	Dimethyl Phthalate	440U	218-01-9	Chrysene	440U	
	208-96-8	Acenaphthylene	440U	117-84-0	Di-n-Octyl Phthalate	440U	
				205-99-2	Benzo(b)Fluoranthene	440U	
				207-08-9	Benzo(k)Fluoranthene	440U	
				50-32-8	Benzo(a)Pyrene	440U	
				193-39-5	Indeno(1,2,3-cd)Pyrene	440U	
				53-70-3	Dibenzo(a,h)Anthracene	440U	
				191-24-2	Benzo(g,h,i)Perylene	440U	
				92-87-5	Benzidine	3500U	

(1) - Cannot be separated from diphenylamine

Date Reported: 11/19/87

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S.C. McLendon, P.E.
Laboratory Director

8600

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS#19

Lab Name: H2M LABS INC. Contract: EPA 10/87

Lab Code: HP001 Case No.: TSH 10/8SAS No.: EPA SDG No.: HP #2

Matrix: (soil/water) SOIL Lab Sample ID: 762618

Sample wt/vol: 25.0754(g/mL) G Lab File ID: >P3608

Level: (low/med) LOW Date Received: 10/14/87

% Moisture: not dec.0 __ dec. 0___ Date Extracted: 10/20/87

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 10/30/87

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	79345	Ethane, 1,1,2,2-tetrachloro-	9.40	390.	J
4.	21964498	1,13-Tetradecadiene (8CI9CI)	29.18	10000.	JB
5.	1454859	1-Heptadecanol (8CI9CI)	29.44	450.	J
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H2M LABS, INC.
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HOLZMACHER, McLENDON and MURRELL, P.C. • ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Town of Southampton Sample Lab No. 762619
Hampton Road Sample I.D. Surface Soil #18 Date Collected: 10/14/87
Southampton, NY 11968 Conc. factor. 23 Date Received: 10/14/87
Town of Southampton North Sea Landfill Concentration: Low
Collected By: JFA 03 Percent Moisture(Decanted) 7

Scan #	C.A.S. Number		ug/kg	C.A.S. Number		ug/kg	Scan
	65-75-9	N-Nitrosodimethylamine	430U	83-32-9	Acenaphthene	430U	
	108-95-2	Phenol	430U	51-28-5	2,4-Dinitrophenol	2200U	
	111-44-4	bis(2-Chloroethyl)ether	430U	100-02-7	4-Nitrophenol	2200U	
	95-57-8	2-Chlorophenol	430U	121-14-2	2,4-Dinitrotoluene	430U	
	541-73-1	1,3-Dichlorobenzene	430U	606-20-2	2,6-Dinitrotoluene	430U	
	106-46-7	1,4-Dichlorobenzene	430U	84-66-2	Diethylphthalate	430U	
	95-50-1	1,2-Dichlorobenzene	430U	7005-72-3	4-Chlorophenyl-phenylether	430U	
	39638329	bis(2-chloroisopropyl)ether	430U	86-73-7	Fluorene	430U	
	621-64-7	N-Nitroso-Di-n-propylamine	430U	534-52-1	4,6-Dinitro-2-Methylphenol	2200U	
	67-72-1	Hexachloroethane	430U	86-30-6	N-Nitrososdiphenylamine 1)	430U	
	98-95-3	Nitrobenzene	430U				
	78-59-1	Isophorone	430U	101-55-3	4-Bromophenyl-phenylether	430U	
	88-75-5	2-Nitrophenol	430U	118-74-1	Hexachlorobenzene	430U	
	105-67-9	2,4-Dimethylphenol	430U	87-86-5	Pentachlorophenol	2200U	
	120-82-1	1,2,4-Trichlorobenzene	430U	85-01-8	Phenanthrene	430U	
	111-91-1	bis(2-Chloroethoxy)Methane	430U	120-12-7	Anthracene	430U	
	120-83-2	2,4-Dichlorophenol	430U	84-74-2	Di-n-Butylphthalate	430U	
	91-20-3	Naphthalene	430U	206-44-0	Fluoranthene	430U	
	87-68-3	Hexachlorobutadiene	430U	129-00-0	Pyrene	430U	
	59-50-7	4-Chloro-3-methylphenol	430U	85-68-7	Butylbenzylphthalate	430U	
	77-47-4	Hexachlorocyclopentadiene	430U	91-94-1	3,3'-Dichlorobenzidine	860U	
	88-06-2	2,4,6-Trichlorophenol	430U	56-55-3	Benzo(a)Anthracene	430U	
	91-58-7	2-Chloronaphthalene	430U	117-81-7	bis(2-Ethylhexyl)Phthalate	740B	1513
	131-11-3	Dimethyl Phthalate	430U	218-01-9	Chrysene	430U	
	208-96-8	Acenaphthylene	430U	117-84-0	Di-n-Octyl Phthalate	430U	
				205-99-2	Benzo(b)Fluoranthene	430U	
				207-08-9	Benzo(k)Fluoranthene	430U	
				50-32-8	Benzo(a)Pyrene	430U	
				193-39-5	Indeno(1,2,3-cd)Pyrene	430U	
				53-70-3	Dibenzo(a,h)Anthracene	430U	
				191-24-2	Benzo(g,h,i)Perylene	430U	
				92-87-5	Benzidine	3400U	

(1) - Cannot be separated from diphenylamine.

Date Reported: 11/19/87

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* [signature] *
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S.C. McLendon, P.E.
Laboratory Director

Q0004

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS#18

Lab Name: H2M LABS INC. Contract: EPA 10/87

Lab Code: HP001 Case No.: TSH 10/8 SAS No.: EPA SDG No.: HP#2

Matrix: (soil/water) SOIL Lab Sample ID: 762619

Sample wt/vol: 25.0019(g/mL) G Lab File ID: >P3609

Level: (low/med) LOW Date Received: 10/14/87

% Moisture: not dec.0 ___ dec. 0___ Date Extracted: 10/20/87

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 10/30/87

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	79345	1,1,2,2-Tetrachloro-Ethane	9.40	350.	J
2.	21964498	1,13-Tetradecadiene (8CI9CI)	29.16	1600.	JB
3.	5675514	1,12-Dodecanediol (8CI9CI)	29.22	380.	JB
4.		Unknown	34.21	190.	J
5.		Unknown	36.70	180.	J
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H2M LABS, INC.
575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040
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Town of Southampton Sample Lab No. 762620
Hampton Road Sample I.D. Surface Soil #16 Date Collected: 10/14/87
Southampton, NY 11968 Conc. factor. 24 Date Received: 10/14/87
Town of Southampton North Sea Landfill Concentration: Low
Collected By: JFA 03 Percent Moisture(Decanted) 4

Scan #	C.A.S. Number		ug/kg	C.A.S. Number		ug/kg	Scan
	65-75-9	N-Nitrosodimethylamine	410U	83-32-9	Acenaphthene	410U	
	108-95-2	Phenol	410U	51-28-5	2,4-Dinitrophenol	2100U	
	111-44-4	bis(2-Chloroethyl)ether	410U	100-02-7	4-Nitrophenol	2100U	
	95-57-8	2-Chlorophenol	410U	121-14-2	2,4-Dinitrotoluene	410U	
	541-73-1	1,3-Dichlorobenzene	410U	606-20-2	2,6-Dinitrotoluene	410U	
	106-46-7	1,4-Dichlorobenzene	410U	84-66-2	Diethylphthalate	410U	
	95-50-1	1,2-Dichlorobenzene	410U	7005-72-3	4-Chlorophenyl-phenylether	410U	
	39638329	bis(2-chloroisopropyl)ether	410U	86-73-7	Fluorene	410U	
	621-64-7	N-Nitroso-Di-n-propylamine	410U	534-52-1	4,6-Dinitro-2-Methylphenol	2100U	
	67-72-1	Hexachloroethane	410U	86-30-6	N-Nitrososdiphenylamine 1)	410U	
	98-95-3	Nitrobenzene	410U				
	78-59-1	Isophorone	410U	101-55-3	4-Bromophenyl-phenylether	410U	
	88-75-5	2-Nitrophenol	410U	118-74-1	Hexachlorobenzene	410U	
	105-67-9	2,4-Dimethylphenol	410U	87-86-5	Pentachlorophenol	2100U	
	120-82-1	1,2,4-Trichlorobenzene	410U	85-01-8	Phenanthrene	410U	
	111-91-1	bis(2-Chloroethoxy)Methane	410U	120-12-7	Anthracene	410U	
	120-83-2	2,4-Dichlorophenol	410U	84-74-2	Di-n-Butylphthalate	410U	
	91-20-3	Naphthalene	410U	206-44-0	Fluoranthene	410U	
	87-68-3	Hexachlorobutadiene	410U	129-00-0	Pyrene	410U	
	59-50-7	4-Chloro-3-methylphenol	410U	85-68-7	Butylbenzylphthalate	410U	
	77-47-4	Hexachlorocyclopentadiene	410U	91-94-1	3,3'-Dichlorobenzidine	820U	
	88-06-2	2,4,6-Trichlorophenol	410U	56-55-3	Benzo(a)Anthracene	410U	
	91-58-7	2-Chloronaphthalene	410U	117-81-7	bis(2-Ethylhexyl)Phthalate	1800B	1513
	131-11-3	Dimethyl Phthalate	410U	218-01-9	Chrysene	410U	
	208-96-8	Acenaphthylene	410U	117-84-0	Di-n-Octyl Phthalate	410U	
				205-99-2	Benzo(b)Fluoranthene	410U	
				207-08-9	Benzo(k)Fluoranthene	410U	
				50-32-8	Benzo(a)Pyrene	410U	
				193-39-5	Indeno(1,2,3-cd)Pyrene	410U	
				53-70-3	Dibenzo(a,h)Anthracene	410U	
				191-24-2	Benzo(g,h,i)Perylene	410U	
				92-87-5	Benzidine	3300U	

(1) - Cannot be separated from diphenylamine.

Date Reported: 11/19/87

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S.C. McLendon, P.E.
Laboratory Director

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SS#16

Lab Name: H2M LABS INC, Contract: EPA 10/87

Lab Code: HP001 Case No.: TSH 10/8 SAS No.: EPA SDG No.: HP#2

Matrix: (soil/water) SOIL Lab Sample ID: 762620

Sample wt/vol: 25.0848(g/mL) G Lab File ID: >P3632

Level: (low/med) LOW Date Received: 10/14/87

% Moisture: not dec. 0 __ dec. 0___ Date Extracted: 10/20/87

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 11/03/87

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.00000

Number TICs found: 20 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	28.07	270.	J
2.		Unknown	30.13	350.	J
3.	1002842	Pentadecanoic acid (8CI9CI)	30.42	630.	J
4.	123795	Hexanedioic acid, dioctyl ester	33.01	430.	J
5.		Unknown	33.69	310.	J
6.	630024	Octacosane (8CI9CI)	36.02	320.	J
7.		Unknown	36.72	280.	J
9.	630035	Nonacosane (8CI9CI)	37.86	1100.	J
10.		Unknown	38.78	190.	J
11.		Unknown	38.84	230.	J
12.		Unknown	39.83	500.	J
13.		Unknown	39.99	470.	J
14.		Unknown	40.24	240.	J
15.		Unknown	42.36	1300.	J
16.	514078	D-Friedoolean-14-en-3-one (8	43.26	730.	J
17.		Unknown	43.45	210.	J
18.		Unknown	43.82	260.	J
19.		Unknown	44.31	460.	J
20.		Unknown	44.94	900.	J
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H2M LABS, INC.
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HOLZMACHER, McLENDON and MURRELL, P.C. • ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Town of Southampton Sample Lab No. 762621
Hampton Road Sample I.D. Surface Soil #15 Date Collected: 10/14/87
Southampton, NY 11968 Conc. factor. 25 Date Received: 10/14/87
Town of Southampton North Sea Landfill Concentration: Low
Collected By: JFA 03 Percent Moisture(Decanted) 2

Scan #	C.A.S. Number		ug/kg	C.A.S. Number		ug/kg	S
	65-75-9	N-Nitrosodimethylamine	400U	83-32-9	Acenaphthene	400U	
	108-95-2	Phenol	400U	51-28-5	2,4-Dinitrophenol	2000U	
	111-44-4	bis(2-Chloroethyl)ether	400U	100-02-7	4-Nitrophenol	2000U	
	95-57-8	2-Chlorophenol	400U	121-14-2	2,4-Dinitrotoluene	400U	
	541-73-1	1,3-Dichlorobenzene	400U	606-20-2	2,6-Dinitrotoluene	400U	
	106-46-7	1,4-Dichlorobenzene	400U	84-66-2	Diethylphthalate	400U	
	95-50-1	1,2-Dichlorobenzene	400U	7005-72-3	4-Chlorophenyl-phenylether	400U	
	39638329	bis(2-chloroisopropyl)ether	400U	86-73-7	Fluorene	400U	
	621-64-7	N-Nitroso-Di-n-propylamine	400U	534-52-1	4,6-Dinitro-2-Methylphenol	2000U	
	67-72-1	Hexachloroethane	400U	86-30-6	N-Nitrososdiphenylamine 1)	400U	
	98-95-3	Nitrobenzene	400U				
	78-59-1	Isophorone	400U	101-55-3	4-Bromophenyl-phenylether	400U	
	88-75-5	2-Nitrophenol	400U	118-74-1	Hexachlorobenzene	400U	
	105-67-9	2,4-Dimethylphenol	400U	87-86-5	Pentachlorophenol	2000U	
	120-82-1	1,2,4-Trichlorobenzene	400U	85-01-8	Phenanthrene	400U	
	111-91-1	bis(2-Chloroethoxy)Methane	400U	120-12-7	Anthracene	400U	
	120-83-2	2,4-Dichlorophenol	400U	84-74-2	Di-n-Butylphthalate	400U	
	91-20-3	Naphthalene	400U	206-44-0	Fluoranthene	400U	
	87-68-3	Hexachlorobutadiene	400U	129-00-0	Pyrene	400U	
	59-50-7	4-Chloro-3-methylphenol	400U	85-68-7	Butylbenzylphthalate	400U	
	77-47-4	Hexachlorocyclopentadiene	400U	91-94-1	3,3'-Dichlorobenzidine	800U	
	88-06-2	2,4,6-Trichlorophenol	400U	56-55-3	Benzo(a)Anthracene	400U	
	91-58-7	2-Chloronaphthalene	400U	117-81-7	bis(2-Ethylhexyl)Phthalate	300JB	1513
	131-11-3	Dimethyl Phthalate	400U	218-01-9	Chrysene	400U	
	208-96-8	Acenaphthylene	400U	117-84-0	Di-n-Octyl Phthalate	400U	
				205-99-2	Benzo(b)Fluoranthene	400U	
				207-08-9	Benzo(k)Fluoranthene	400U	
				50-32-8	Benzo(a)Pyrene	400U	
				193-39-5	Indeno(1,2,3-cd)Pyrene	400U	
				53-70-3	Dibenzo(a,h)Anthracene	400U	
				191-24-2	Benzo(g,h,i)Perylene	400U	
				92-87-5	Benzidine	3200U	

(1) - Cannot be separated from diphenylamine.

Date Reported: 11/19/87

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* Jan Stan *
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S.C. McLendon, P.E.
Laboratory Director

4605

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS#15

Lab Name: H2M LABS INC, Contract: EPA 10/87

Lab Code: HP001 Case No.: TSH 10/8SAS No.: EPA SDG No.: HP#2

Matrix: (soil/water) SOIL Lab Sample ID: 762621

Sample wt/vol: 25.0259(g/mL) G Lab File ID: >P3610

Level: (low/med) LOW Date Received: 10/14/87

% Moisture: not dec.0 __ dec. 0___ Date Extracted: 10/20/87

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 10/30/87

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	79345	1,1,2,2-Tetrachloroethane	9.38	270.	J
2.	21964498	1,13-Tetradecadiene (8C19CI)	29.16	760.	JB
3.	5675514	1,12-Dodecanediol	29.22	200.	JB
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H2M LABS, INC.
575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040
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Town of Southampton Sample Lab No. 762622
Hampton Road Sample I.D. Surface Soil #14 Date Collected: 10/14/87
Southampton, NY 11968 Conc. factor. 25 Date Received: 10/14/87
Town of Southampton North Sea Landfill Concentration: Low
Collected By: JFA 03 Percent Moisture(Decanted) 4

Scan #	C.A.S. Number		ug/kg	C.A.S. Number		ug/kg	Scan
	65-75-9	N-Nitrosodimethylamine	410U	83-32-9	Acenaphthene	410U	
	108-95-2	Phenol	410U	51-28-5	2,4-Dinitrophenol	2100U	
	111-44-4	bis(2-Chloroethyl)ether	410U	100-02-7	4-Nitrophenol	2100U	
	95-57-8	2-Chlorophenol	410U	121-14-2	2,4-Dinitrotoluene	410U	
	541-73-1	1,3-Dichlorobenzene	410U	606-20-2	2,6-Dinitrotoluene	410U	
	106-46-7	1,4-Dichlorobenzene	410U	84-66-2	Diethylphthalate	48J	934
	95-50-1	1,2-Dichlorobenzene	410U	7005-72-3	4-Chlorophenyl-phenylether	410U	
	39638329	bis(2-chloroisopropyl)ether	410U	86-73-7	Fluorene	410U	
	621-64-7	N-Nitroso-Di-n-propylamine	410U	534-52-1	4,6-Dinitro-2-Methylphenol	2100U	
	67-72-1	Hexachloroethane	410U	86-30-6	N-Nitrososdiphenylamine 1)	410U	
	98-95-3	Nitrobenzene	410U				
	78-59-1	Isophorone	410U	101-55-3	4-Bromophenyl-phenylether	410U	
	88-75-5	2-Nitrophenol	410U	118-74-1	Hexachlorobenzene	410U	
	105-67-9	2,4-Dimethylphenol	410U	87-86-5	Pentachlorophenol	2100U	
	120-82-1	1,2,4-Trichlorobenzene	410U	85-01-8	Phenanthrene	410U	
	111-91-1	bis(2-Chloroethoxy)Methane	410U	120-12-7	Anthracene	410U	
	120-83-2	2,4-Dichlorophenol	410U	84-74-2	Di-n-Butylphthalate	350J	1186
	91-20-3	Naphthalene	410U	206-44-0	Fluoranthene	140J	1257
	87-68-3	Hexachlorobutadiene	410U	129-00-0	Pyrene	140J	1290
	59-50-7	4-Chloro-3-methylphenol	410U	85-68-7	Butylbenzylphthalate	170J	1413
	77-47-4	Hexachlorocyclopentadiene	410U	91-94-1	3,3'-Dichlorobenzidine	820U	
	88-06-2	2,4,6-Trichlorophenol	410U	56-55-3	Benzo(a)Anthracene	95J	1477
	91-58-7	2-Chloronaphthalene	410U	117-81-7	bis(2-Ethylhexyl)Phthalate	3700B	1513
	131-11-3	Dimethyl Phthalate	410U	218-01-9	Chrysene	150J	1482
	208-96-8	Acenaphthylene	410U	117-84-0	Di-n-Octyl Phthalate	410U	
				205-99-2	Benzo(b)Fluoranthene	250J	1632
				207-08-9	Benzo(k)Fluoranthene	110J	1635
				50-32-8	Benzo(a)Pyrene	110J	1673
				193-39-5	Indeno(1,2,3-cd)Pyrene	71J	1842
				53-70-3	Dibenzo(a,h)Anthracene	410U	
				191-24-2	Benzo(g,h,i)Perylene	57J	1886
				92-87-5	Benzidine	3300U	

(1) - Cannot be separated from diphenylamine.

Date Reported: 11/19/87

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S.C. McLendon, P.E.
Laboratory Director

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SS#14

Lab Name:H2M LABS INC, Contract:EPA 10/87

Lab Code: HP001 Case No.: TSH 10/8SAS No.: EPA SDG No.: HP#2

Matrix: (soil/water) SOIL Lab Sample ID: 762622

Sample wt/vol: 25.0690(g/mL) G Lab File ID: >P3633

Level: (low/med) LOW Date Received: 10/14/87

% Moisture: not dec.0 __ dec. 0___ Date Extracted:10/20/87

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 11/03/87

GPC Cleanup: (Y/N) Y pH:7.2 Dilution Factor: 1.00000

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	12.93	440.	J
2.		Unknown	17.52	480.	J
3.		Unknown	17.99	330.	J
4.		Unknown	18.07	330.	J
5.		Unknown	19.74	440.	J
6.		Unknown	21.21	340.	J
7.	143077	Dodecanoic acid (9CI)	22.35	520.	J
8.	21964487	1,12-Tridecadiene (8CI9CI)	26.64	700.	J
9.	295170	Cyclotetradecane (8CI9CI)	26.90	840.	J
10.	21964498	1,13-Tetradecadiene (8CI9CI)	29.27	14000.	JB
11.	143282	9-Octadecen-1-ol, (Z)- (8CI9	29.78	210.	J
12.	544638	Tetradecanoic acid (9CI)	30.40	250.	J
13.	5353253	Ethanol, 2-(9-octadecenyloxy)-,(Z)	31.65	550.	J
14.		Unknown	32.43	1000.	J
15.		Unknown	33.74	270.	J
16.	1786943	3,6,9,12,15-Pentaoxanonadecan-1-ol	35.36	420.	J
17.		Unknown	40.41	460.	J
18.		Unknown	43.20	460.	J
19.		Unknown	43.30	490.	J
20.		Unknown	43.43	430.	J
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H2M LABS, INC.
575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040
HOLZMACHER, McLENDON and MURRELL, P.C. • ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Town of Southampton
Hampton Road
Southampton, NY 11968

Sample Lab No. 762623
Sample I.D. Surface Soil #13 Date Collected: 10/14/87
Conc. factor. 24 Date Received: 10/14/87
Town of Southampton North Sea Landfill Concentration: Low
Collected By: JFA 03 Percent Moisture(Decanted) 6

Scan #	C.A.S. Number		ug/kg	C.A.S. Number		ug/kg	Scan
	65-75-9	N-Nitrosodimethylamine	420U	83-32-9	Acenaphthene	420U	
	108-95-2	Phenol	420U	51-28-5	2,4-Dinitrophenol	2100U	
	111-44-4	bis(2-Chloroethyl)ether	420U	100-02-7	4-Nitrophenol	2100U	
	95-57-8	2-Chlorophenol	420U	121-14-2	2,4-Dinitrotoluene	420U	
	541-73-1	1,3-Dichlorobenzene	420U	606-20-2	2,6-Dinitrotoluene	420U	
	106-46-7	1,4-Dichlorobenzene	420U	84-66-2	Diethylphthalate	420U	
	95-50-1	1,2-Dichlorobenzene	420U	7005-72-3	4-Chlorophenyl-phenylether	420U	
	39638329	bis(2-chloroisopropyl)ether	420U	86-73-7	Fluorene	420U	
	621-64-7	N-Nitroso-Di-n-propylamine	420U	534-52-1	4,6-Dinitro-2-Methylphenol	2100U	
	67-72-1	Hexachloroethane	420U	86-30-6	N-Nitrososdiphenylamine 1)	420U	
	98-95-3	Nitrobenzene	420U				
	78-59-1	Isophorone	420U	101-55-3	4-Bromophenyl-phenylether	420U	
	88-75-5	2-Nitrophenol	420U	118-74-1	Hexachlorobenzene	420U	
	105-67-9	2,4-Dimethylphenol	420U	87-86-5	Pentachlorophenol	2100U	
	120-82-1	1,2,4-Trichlorobenzene	420U	85-01-8	Phenanthrene	420U	
	111-91-1	bis(2-Chloroethoxy)Methane	420U	120-12-7	Anthracene	420U	
	120-83-2	2,4-Dichlorophenol	420U	84-74-2	Di-n-Butylphthalate	72J	1187
	91-20-3	Naphthalene	420U	206-44-0	Fluoranthene	420U	
	87-68-3	Hexachlorobutadiene	420U	129-00-0	Pyrene	420U	
	59-50-7	4-Chloro-3-methylphenol	420U	85-68-7	Butylbenzylphthalate	420U	
	77-47-4	Hexachlorocyclopentadiene	420U	91-94-1	3,3'-Dichlorobenzidine	840U	
	88-06-2	2,4,6-Trichlorophenol	420U	56-55-3	Benzo(a)Anthracene	420U	
	91-58-7	2-Chloronaphthalene	420U	117-81-7	bis(2-Ethylhexyl)Phthalate	790B	1511
	131-11-3	Dimethyl Phthalate	420U	218-01-9	Chrysene	420U	
	208-96-8	Acenaphthylene	420U	117-84-0	Di-n-Octyl Phthalate	420U	
				205-99-2	Benzo(b)Fluoranthene	420U	
				207-08-9	Benzo(k)Fluoranthene	420U	
				50-32-8	Benzo(a)Pyrene	420U	
				193-39-5	Indeno(1,2,3-cd)Pyrene	420U	
				53-70-3	Dibenzo(a,h)Anthracene	420U	
				191-24-2	Benzo(g,h,i)Perylene	420U	
				92-87-5	Benzidine	3400U	

(1) - Cannot be separated from diphenylamine.

Date Reported: 11/19/87

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S.C. McLendon, P.E.
Laboratory Director

C548

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS#13

Lab Name: H2M LABS INC. Contract: EPA 10/87

Lab Code: HP001 Case No.: TSH 10/8 SAS No.: EPA SDG No.: HP#2

Matrix: (soil/water) SOIL Lab Sample ID: 762623

Sample wt/vol: 25.0532(g/mL) G Lab File ID: >P3634

Level: (low/med) LOW Date Received: 10/14/87

% Moisture: not dec. 0 __ dec. 0___ Date Extracted: 10/20/87

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 11/03/87

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.00000

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	79345	Ethane, 1,1,2,2-tetrachloro-	9.42	180.	J
2.		Unknown	33.01	190.	J
3.		Unknown	37.84	270.	J
4.					
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H2M LABS, INC.
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Town of Southampton Sample Lab No. 762624
Hampton Road Sample I.D. Surface Soil #12 Date Collected: 10/14/87
Southampton, NY 11968 Conc. factor. 20 Date Received: 10/14/87
Town of Southampton North Sea Landfill Concentration: Low
Collected By: JFA 03 Percent Moisture(Decanted) 21

Scan #	C.A.S. Number		ug/kg	C.A.S. Number		ug/kg	Scan
	65-75-9	N-Nitrosodimethylamine	500U	83-32-9	Acenaphthene	500U	
	108-95-2	Phenol	500U	51-28-5	2,4-Dinitrophenol	2500U	
	111-44-4	bis(2-Chloroethyl)ether	500U	100-02-7	4-Nitrophenol	2500U	
	95-57-8	2-Chlorophenol	500U	121-14-2	2,4-Dinitrotoluene	500U	
	541-73-1	1,3-Dichlorobenzene	500U	606-20-2	2,6-Dinitrotoluene	500U	
	106-46-7	1,4-Dichlorobenzene	500U	84-66-2	Diethylphthalate	500U	
	95-50-1	1,2-Dichlorobenzene	500U	7005-72-3	4-Chlorophenyl-phenylether	500U	
	39638329	bis(2-chloroisopropyl)ether	500U	86-73-7	Fluorene	500U	
	621-64-7	N-Nitroso-Di-n-propylamine	500U	534-52-1	4,6-Dinitro-2-Methylphenol	2500U	
	67-72-1	Hexachloroethane	500U	86-30-6	N-Nitrososdiphenylamine 1)	500U	
	98-95-3	Nitrobenzene	500U				
	78-59-1	Isophorone	500U	101-55-3	4-Bromophenyl-phenylether	500U	
	88-75-5	2-Nitrophenol	500U	118-74-1	Hexachlorobenzene	500U	
	105-67-9	2,4-Dimethylphenol	500U	87-86-5	Pentachlorophenol	2500U	
	120-82-1	1,2,4-Trichlorobenzene	500U	85-01-8	Phenanthrene	500U	
	111-91-1	bis(2-Chloroethoxy)Methane	500U	120-12-7	Anthracene	500U	
	120-83-2	2,4-Dichlorophenol	500U	84-74-2	Di-n-Butylphthalate	500U	
	91-20-3	Naphthalene	500U	206-44-0	Fluoranthene	500U	
	87-68-3	Hexachlorobutadiene	500U	129-00-0	Pyrene	500U	
	59-50-7	4-Chloro-3-methylphenol	500U	85-68-7	Butylbenzylphthalate	500U	
	77-47-4	Hexachlorocyclopentadiene	500U	91-94-1	3,3'-Dichlorobenzidine	1000U	
	88-06-2	2,4,6-Trichlorophenol	500U	56-55-3	Benzo(a)Anthracene	500U	
	91-58-7	2-Chloronaphthalene	500U	117-81-7	bis(2-Ethylhexyl)Phthalate	3100B	1514
	131-11-3	Dimethyl Phthalate	500U	218-01-9	Chrysene	500U	
	208-96-8	Acenaphthylene	500U	117-84-0	Di-n-Octyl Phthalate	500U	
				205-99-2	Benzo(b)Fluoranthene	500U	
				207-08-9	Benzo(k)Fluoranthene	500U	
				50-32-8	Benzo(a)Pyrene	500U	
				193-39-5	Indeno(1,2,3-cd)Pyrene	500U	
				53-70-3	Dibenzo(a,h)Anthracene	500U	
				191-24-2	Benzo(g,h,i)Perylene	500U	
				92-87-5	Benzidine	3000U	

(1) - Cannot be separated from diphenylamine.

Date Reported: 11/19/87

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S.C. McLendon, P.E.
Laboratory Director

0350

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS#12

Lab Name: H2M LABS INC. Contract: EPA 10/87

Lab Code: HP001 Case No.: TSH 10/8 SAS No.: EPA SDG No.: HP#2

Matrix: (soil/water) SOIL Lab Sample ID: 762624

Sample wt/vol: 25.0058 (g/mL) G Lab File ID: >P3635

Level: (low/med) LOW Date Received: 10/14/87

% Moisture: not dec. 0 __ dec. 0___ Date Extracted: 10/20/87

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 11/03/87

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.00000

Number TICs found: 15

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	6.38	900.	J
2.		Unknown	7.34	800.	J
3.	79345	Ethane, 1,1,2,2-tetrachloro-	9.42	440.	J
4.	57103	Hexadecanoic acid (9CI)	27.94	320.	J
5.	21964498	1,13-Tetradecadiene (8CI9CI)	29.19	330.	JB
7.	57749	Chlordane	30.27	230.	J
8.	57114	Octadecanoic acid (9CI)	30.42	410.	J
11.	123795	Hexanedioic acid, dioctyl ester	33.04	320.	J
13.		Unknown	40.95	460.	J
15.		Unknown	44.36	390.	J
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H2M LABS, INC.
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HOLZMACHER, McLENDON and MURRELL, P.C. • ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Town of Southampton
Hampton Road
Southampton, NY 11968

Sample Lab No. 762625
Sample ID. Surface Soil #11 Date Collected: 10/14/87
Conc. factor. 20 Date Received: 10/14/87
Town of Southampton North Sea Landfill Concentration: Low
Collected By: JFA 03 Percent Moisture(Decanted) 21

Scan #	C.A.S. Number		ug/kg	C.A.S. Number		ug/kg	Scan
	65-75-9	N-Nitrosodimethylamine	440U	83-32-9	Acenaphthene	440U	
	108-95-2	Phenol	440U	51-28-5	2,4-Dinitrophenol	2200U	
	111-44-4	bis(2-Chloroethyl)ether	440U	100-02-7	4-Nitrophenol	2200U	
	95-57-8	2-Chlorophenol	440U	121-14-2	2,4-Dinitrotoluene	440U	
	541-73-1	1,3-Dichlorobenzene	440U	606-20-2	2,6-Dinitrotoluene	440U	
	95-57-8	2-Chlorophenol	440U	84-66-2	Diethylphthalate	440U	
	95-50-1	1,2-Dichlorobenzene	440U	7005-72-3	4-Chlorophenyl-phenylether	440U	
	39638329	bis(2-chloroisopropyl)ether	440U	86-73-7	Fluorene	440U	
	621-64-7	N-Nitroso-Di-n-propylamine	440U	534-52-1	4,6-Dinitro-2-Methylphenol	2200U	
	67-72-1	Hexachloroethane	440U	86-30-6	N-Nitrososdiphenylamine 1)	440U	
	98-95-3	Nitrobenzene	440U				
	78-59-1	Isophorone	440U	101-55-3	4-Bromophenyl-phenylether	440U	
	88-75-5	2-Nitrophenol	440U	118-74-1	Hexachlorobenzene	440U	
	105-67-9	2,4-Dimethylphenol	440U	87-86-5	Pentachlorophenol	2200U	
	120-82-1	1,2,4-Trichlorobenzene	440U	85-01-8	Phenanthrene	440U	
	111-91-1	bis(2-Chloroethoxy)Methane	440U	120-12-7	Anthracene	440U	
	120-83-2	2,4-Dichlorophenol	440U	84-74-2	Di-n-Butylphthalate	57J	1188
	91-20-3	Naphthalene	440U	206-44-0	Fluoranthene	440U	
	87-68-3	Hexachlorobutadiene	440U	129-00-0	Pyrene	440U	
	59-50-7	4-Chloro-3-methylphenol	440U	85-68-7	Butylbenzylphthalate	440U	
	77-47-4	Hexachlorocyclopentadiene	440U	91-94-1	3,3'-Dichlorobenzidine	800U	
	88-06-2	2,4,6-Trichlorophenol	440U	56-55-3	Benzo(a)Anthracene	440U	
	91-58-7	2-Chloronaphthalene	440U	117-81-7	bis(2-Ethylhexyl)Phthalate	2600B	1516
	131-11-3	Dimethyl Phthalate	440U	218-01-9	Chrysene	440U	
	208-96-8	Acenaphthylene	440U	117-84-0	Di-n-Octyl Phthalate	440U	
				205-99-2	Benzo(b)Fluoranthene	440U	
				207-08-9	Benzo(k)Fluoranthene	440U	
				50-32-8	Benzo(a)Pyrene	440U	
				193-39-5	Indeno(1,2,3-cd)Pyrene	440U	
				53-70-3	Dibenzo(a,h)Anthracene	440U	
				191-24-2	Benzo(g,h,i)Perylene	440U	
				92-87-5	Benzidine	3500U	

(1) - Cannot be separated from diphenylamine.

Date Reported: 11/19/87

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S.C. McLendon, P.E.
Laboratory Director

0052

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS#11

Lab Name: H2M LABS INC, Contract: EPA 10/87

Lab Code: HP001 Case No.: TSH 10/8 SAS No.: EPA SDG No.: HP#2

Matrix: (soil/water) SOIL Lab Sample ID: 762625

Sample wt/vol: 25.0652(g/mL) G Lab File ID: >P3636

Level: (low/med) LOW Date Received: 10/14/87

% Moisture: not dec. 0 ___ dec. 0___ Date Extracted: 10/20/87

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 11/03/87

GPC Cleanup: (Y/N) ~~N~~ Y pH: 7.2 Dilution Factor: 1.00000

Number TICs found: 14 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q (2)
1.		Unknown	5.02	270.	J
2.	79345	Ethane, 1,1,2,2-tetrachloro-GH	9.42	370.	J
3.		Unknown	13.11	490.	J
5.		Unknown	27.67	200.	J
6.	21964498	1,13-Tetradecadiene (8CI9CI)	29.18	580.	JB
7.	1002842	Pentadecanoic acid (8CI9CI)	30.37	200.	J
8.	123795	Hexanedioic acid, dioctyl ester	33.03	220.	J
14.		Unknown	36.86	200.	J
15.					
16.					
17.					
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H2M LABS, INC.
575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040
HOLZMACHER, McLENDON and MURRELL, P.C. • ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Town of Southampton Sample Lab No. 762653
Hampton Road Sample I.D. Field Blank Date Collected: 10/14/87
Southampton, NY 11968 Conc. factor. 1000 Date Received: 10/14/87
Town of Southampton North Sea Landfill Concentration: Low
Collected By: JFA 03 Aqueous Samples

Scan #	C.A.S. Number		ug/l
	65-75-9	N-Nitrosodimethylamine	10U
	108-95-2	Phenol	10U
	111-44-4	bis(2-Chloroethyl)ether	10U
	95-57-8	2-Chlorophenol	10U
	541-73-1	1,3-Dichlorobenzene	10U
	106-46-7	1,4-Dichlorobenzene	10U
	95-50-1	1,2-Dichlorobenzene	10U
	39638329	bis(2-chloroisopropyl)ether	10U
	621-64-7	N-Nitroso-Di-n-propylamine	10U
	67-72-1	Hexachloroethane	10U
	98-95-3	Nitrobenzene	10U
	78-59-1	Isophorone	10U
	88-75-5	2-Nitrophenol	10U
	105-67-9	2,4-Dimethylphenol	10U
	120-82-1	1,2,4-Trichlorobenzene	10U
	111-91-1	bis(2-Chloroethoxy)Methane	10U
	120-83-2	2,4-Dichlorophenol	10U
	91-20-3	Naphthalene	10U
	87-68-3	Hexachlorobutadiene	10U
	59-50-7	4-Chloro-3-methylphenol	10U
	77-47-4	Hexachlorocyclopentadiene	10U
	88-06-2	2,4,6-Trichlorophenol	10U
	91-58-7	2-Chloronaphthalene	10U
	131-11-3	Dimethyl Phthalate	10U
	208-96-8	Acenaphthylene	10U

C.A.S. Number		ug/l	Scan
83-32-9	Acenaphthene	10U	
51-28-5	2,4-Dinitrophenol	50U	
100-02-7	4-Nitrophenol	50U	
121-14-2	2,4-Dinitrotoluene	10U	
606-20-2	2,6-Dinitrotoluene	10U	
84-66-2	Diethylphthalate	10U	
7005-72-3	4-Chlorophenyl-phenylether	10U	
86-73-7	Fluorene	10U	
534-52-1	4,6-Dinitro-2-Methylphenol	50U	
86-30-6	N-Nitrososdiphenylamine 1)	10U	
101-55-3	4-Bromophenyl-phenylether	10U	
118-74-1	Hexachlorobenzene	10U	
87-86-5	Pentachlorophenol	50U	
85-01-8	Phenanthrene	50U	
120-12-7	Anthracene	10U	
84-74-2	Di-n-Butylphthalate	1J	
206-44-0	Fluoranthene	10U	
129-00-0	Pyrene	10U	
85-68-7	Butylbenzylphthalate	10U	
91-94-1	3,3'-Dichlorobenzidine	20U	
56-55-3	Benzo(a)Anthracene	10U	
117-81-7	bis(2-Ethylhexyl)Phthalate	130B	1514
218-01-9	Chrysene	10U	
117-84-0	Di-n-Octyl Phthalate	10U	
205-99-2	Benzo(b)Fluoranthene	10U	
207-08-9	Benzo(k)Fluoranthene	10U	
50-32-8	Benzo(a)Pyrene	10U	
193-39-5	Indeno(1,2,3-cd)Pyrene	10U	
53-70-3	Dibenzo(a,h)Anthracene	10U	
191-24-2	Benzo(g,h,i)Perylene	10U	
92-87-5	Benzidine	80U	

(1) - Cannot be separated from diphenylamine.

Date Reported: 11/19/87

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S.C. McLendon, P.E.
Laboratory Director

H2M LABS, INC.
575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040
HOLZMACHER, McLENDON and MURRELL, P.C. • ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Town of Southampton
Hampton Road
Southampton, NY 11968

Sample Lab No. 762653
Field Blank

Tentatively Identified Compounds

C.A.S. Number	Compound Name	Percent Probability of Fit	Scan #	Estimated Concentration ug/l
---	No Unknowns Found	---	---	4U

Date Reported: 11/19/87

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S.C. McLendon, P.E.
Laboratory Director

H2M LABS, INC.
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Town of Southampton Sample Lab No. 762654
Hampton Road Sample I.D. Trip Blank Date Collected: 10/14/87
Southampton, NY 11968 Conc. factor. 1000 Date Received: 10/14/87
Town of Southampton North Sea Landfill Concentration: Low
Collected By: JFA 03 Aqueous Samples

Scan #	C.A.S. Number		ug/l	C.A.S. Number		ug/l	Scan
	65-75-9	N-Nitrosodimethylamine	10U	83-32-9	Acenaphthene	10U	
	108-95-2	Phenol	10U	51-28-5	2,4-Dinitrophenol	50U	
	111-44-4	bis(2-Chloroethyl)ether	10U	100-02-7	4-Nitrophenol	50U	
	95-57-8	2-Chlorophenol	10U	121-14-2	2,4-Dinitrotoluene	10U	
	541-73-1	1,3-Dichlorobenzene	10U	606-20-2	2,6-Dinitrotoluene	10U	
	106-46-7	1,4-Dichlorobenzene	10U	84-66-2	Diethylphthalate	10U	
	95-50-1	1,2-Dichlorobenzene	10U	7005-72-3	4-Chlorophenyl-phenylether	10U	
	39638329	bis(2-chloroisopropyl)ether	10U	86-73-7	Fluorene	10U	
	621-64-7	N-Nitroso-Di-n-propylamine	10U	534-52-1	4,6-Dinitro-2-Methylphenol	50U	
	67-72-1	Hexachloroethane	10U	86-30-6	N-Nitrososdiphenylamine 1)	10U	
	98-95-3	Nitrobenzene	10U				
	78-59-1	Isophorone	10U	101-55-3	4-Bromophenyl-phenylether	10U	
	88-75-5	2-Nitrophenol	10U	118-74-1	Hexachlorobenzene	10U	
	105-67-9	2,4-Dimethylphenol	10U	87-86-5	Pentachlorophenol	50U	
	120-82-1	1,2,4-Trichlorobenzene	10U	85-01-8	Phenanthrene	50U	
	111-91-1	bis(2-Chloroethoxy)Methane	10U	120-12-7	Anthracene	10U	
	120-83-2	2,4-Dichlorophenol	10U	84-74-2	Di-n-Butylphthalate	1J	1186
	91-20-3	Naphthalene	10U	206-44-0	Fluoranthene	10U	
	87-68-3	Hexachlorobutadiene	10U	129-00-0	Pyrene	10U	
	59-50-7	4-Chloro-3-methylphenol	10U	85-68-7	Butylbenzylphthalate	10U	
	77-47-4	Hexachlorocyclopentadiene	10U	91-94-1	3,3'-Dichlorobenzidine	20U	
	88-06-2	2,4,6-Trichlorophenol	10U	56-55-3	Benzo(a)Anthracene	10U	
	91-58-7	2-Chloronaphthalene	10U	117-81-7	bis(2-Ethylhexyl)Phthalate	28B	1512
	131-11-3	Dimethyl Phthalate	10U	218-01-9	Chrysene	10U	
	208-96-8	Acenaphthylene	10U	117-84-0	Di-n-Octyl Phthalate	10U	
				205-99-2	Benzo(b)Fluoranthene	10U	
				207-08-9	Benzo(k)Fluoranthene	10U	
				50-32-8	Benzo(a)Pyrene	10U	
				193-39-5	Indeno(1,2,3-cd)Pyrene	10U	
				53-70-3	Dibenzo(a,h)Anthracene	10U	
				191-24-2	Benzo(g,h,i)Perylene	10U	
				92-87-5	Benzidine	80U	

(1) - Cannot be separated from diphenylamine.

Date Reported: 11/19/87

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S.C. McLendon, P.E.
Laboratory Director

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HOLZMACHER, McLENDON and MURRELL, P.C. • ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Town of Southampton
Hampton Road
Southampton, NY 11968

Sample Lab No. 762654
Trip Blank

Tentatively Identified Compounds

C.A.S. Number	Compound Name	Percent Probability of Fit	Scan #	Estimated Concentration ug/l
---	No Unknowns Found	---	---	4U

Date Reported: 11/19/87

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* *
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****
G.C. McLendon, P.E.
Laboratory Director

1054

H2M LABS, INC.
Environmental Testing Laboratories
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Water/Waste Water Laboratory • Hazardous Waste Laboratory • Air Testing Laboratory
Pilot Plant Studies and Other Analytical Services

LABORATORY REPORT

LAB NO. 76261
PROJECT NO. SHMP 8605

CLIENT'S NAME AND ADDRESS	
TOWN OF SOUTHAMPTON HAMPTON ROAD SOUTHAMPTON, NY 11968	TYPE OF SAMPLE - MISCELLANEOUS COLLECTED BY JFA C. DATE COLLECTED - 10/14/87 DATE RECEIVED - 10/14/87 E.P. TOXICITY PROCEDURE TOWN OF SOUTHAMPTON NORTH SEA LANDFILL SURFACE SOIL #17 1245 HRS. FULL CLP & COC

PARAMETER	RESULT
ARSENIC	<10.0 #
BARIUM	<200.#
CADMIUM	<5.00#
CHROMIUM	<10.0 #
LEAD	<5.00#
MERCURY	0.40#
SELENIUM	<5.00#
SILVER	<10.0 #

REMARKS - BILLS & REPORTS:CLV

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 12/22/87

LABORATORY DIRECTOR

H2M LABS, INC.
Environmental Testing Laboratories
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Water/Waste Water Laboratory • Hazardous Waste Laboratory • Air Testing Laboratory
Pilot Plant Studies and Other Analytical Services

LABORATORY REPORT

LAB NO. 76262
PROJECT NO. SHMP 8605

CLIENT'S NAME AND ADDRESS

TOWN OF SOUTHAMPTON

HAMPTON ROAD

SOUTHAMPTON, NY 11968

TYPE OF SAMPLE - MISCELLANEOUS COLLECTED BY JFA &
DATE COLLECTED - 10/14/87 DATE RECEIVED - 10/14/87

E.P. TOXICITY PROCEDURE
TOWN OF SOUTHAMPTON NORTH SEA LANDFILL
SURFACE SOIL SAMPLES
FULL CLP & COC

LAB NO.	SAMPLE ID INFORMATION	ARSENIC	BARIUM	CADMIUM	CHROMIUM	LEAD	MERCURY
762626	SURFACE SOIL #20	<10.0 #	<200.#	<5.00#	<10.0 #	<5.00#	0.40#
762627	SURFACE SOIL #19	<10.0 #	<200.#	<5.00#	<10.0 #	<5.00#	0.30#
762628	SURFACE SOIL #18	<10.0 #	<200.#	<5.00#	<10.0 #	<5.00#	0.40#
762629	SURFACE SOIL # 16	<10.0 #	<200.#	<5.00#	<10.0 #	<5.00#	0.80#
762630	SURFACE SOIL #15	<10.0 #	<200.#	<5.00#	<10.0 #	<5.00#	0.20#
762631	SURFACE SOIL #14	<10.0 #	<200.#	<5.00#	<10.0 #	<5.00#	0.30#
762632	SURFACE SOIL #13	<10.0 #	<200.#	<5.00#	<10.0 #	<5.00#	0.30#
762633	SURFACE SOIL #12	<10.0 #	<200.#	<5.00#	<10.0 #	<5.00#	0.30#
762634	SURFACE SOIL #11	<10.0 #	<200.#	<5.00#	<10.0 #	<5.00#	0.30#

REMARKS - BILLS & REPORTS:CLV

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 12/22/8

LABORATORY DIRECTOR

6900

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Pilot Plant Studies and Other Analytical Services

LABORATORY REPORT

LAB NO. 76262
PROJECT NO. SHMP 8605

CLIENT'S NAME AND ADDRESS

TOWN OF SOUTHAMPTON

HAMPTON ROAD

SOUTHAMPTON, NY 11968

TYPE OF SAMPLE - MISCELLANEOUS COLLECTED BY JFA 0
DATE COLLECTED - 10/14/87 DATE RECEIVED - 10/14/87

E.P.TOXICITY PROCEDURE
TOWN OF SOUTHAMPTON NORTH SEA LANDFILL
SURFACE SOIL SAMPLES
FULL CLP & COC

LAB NO.	SAMPLE ID INFORMATION	SELEN-IUM	SILVER
762626	SURFACE SOIL #20	<5.00#	<10.0 #
762627	SURFACE SOIL #19	<5.00#	<10.0 #
762628	SURFACE SOIL #18	<5.00#	<10.0 #
762629	SURFACE SOIL # 16	<5.00#	<10.0 #
762630	SURFACE SOIL #15	<5.00#	<10.0 #
762631	SURFACE SOIL #14	<5.00#	<10.0 #
762632	SURFACE SOIL #13	<5.00#	<10.0 #
762633	SURFACE SOIL #12	<5.00#	<10.0 #
762634	SURFACE SOIL #11	<5.00#	<10.0 #

REMARKS - BILLS & REPORTS:CLV

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML.)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L.)

DATE REPORTED 12/22/8

0900

LABORATORY DIRECTOR

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LABORATORY REPORT

LAB NO. 762615
PROJECT NO. SHMP 8605

CLIENT'S NAME AND ADDRESS	
TOWN OF SOUTHAMPTON HAMPTON ROAD SOUTHAMPTON, NY 11968	TYPE OF SAMPLE - MISCELLANEOUS COLLECTED BY JFA O. DATE COLLECTED - 10/14/87 DATE RECEIVED - 10/14/87 TOWN OF SOUTHAMPTON NORTH SEA LANDFILL SURFACE SOIL #17 1245 HRS. FULL CLP & COC

PARAMETER	RESULT	PARAMETER	RESULT
ANTIMONY	<6.60 NE	SELENIUM	<0.60
ARSENIC	<1.10 NE	SILVER	<1.30 NE
BERYLLIUM	<0.60	THALLIUM	<1.10
CADMIUM	<0.60	ZINC	6.10
CHROMIUM	1.90		
COPPER	7.40 *		
LEAD	2.50		
MERCURY	<0.1		
NICKEL	<5.00		

REMARKS - BILLS & REPORTS:CLV Results reported in mg/kg dry weight

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
1909 SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 12/22/87

LABORATORY DIRECTOR

H2M LABS, INC.
Environmental Testing Laboratories
575 Broad Hollow Road, Melville, New York 11747-5076 • (516) 694-3040

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LABORATORY REPORT

LAB NO. 762635
PROJECT NO. SHMP 8605

CLIENT'S NAME AND ADDRESS

TOWN OF SOUTHAMPTON

HAMPTON ROAD

SOUTHAMPTON, NY 11968

TYPE OF SAMPLE - MISCELLANEOUS COLLECTED BY JFA 02
DATE COLLECTED - 10/14/87 DATE RECEIVED - 10/14/87

TOWN OF SOUTHAMPTON NORTH SEA LANDFILL
SURFACE SOIL SAMPLES
FULL CLP & COC

LAB NO.	SAMPLE ID INFORMATION	ANTIMONY	ARSENIC	BERYLLIUM	CADMIUM	CHROMIUM	COPPER
762635	SURFACE SOIL #20	<6.30 NE	<11.0 NE	<0.60	<0.60	4.40	12.0 *
762636	SURFACE SOIL #19	<6.70 NE	<1.10 NE	<0.60	<0.60	1.70	3.20 *
762637	SURFACE SOIL #18	<6.50 NE	<11.0 NE	<0.60	0.80	3.90	6.30 *
762638	SURFACE SOIL #16	<6.30 NE	<1.00 NE	<0.60	<0.60	2.10	12.0 *
762639	SURFACE SOIL #15	<6.10 NE	<1.00 NE	<0.60	0.60	3.60	6.60 *
762640	SURFACE SOIL #14	<6.30 NE	<1.00 NE	<0.60	0.50	2.30	5.80 *
762641	SURFACE SOIL #13	<6.40 NE	<11.0 NE	<0.60	0.60	7.20	13.0 *
762642	SURFACE SOIL #12	<7.60 NE	8.70 NE+	<0.60	0.80	4.80	25.0 *
762643	SURFACE SOIL #11	<6.70 NE	<11.0 NE	<0.60	0.80	4.80	6.30 *

REMARKS - BILLS & REPORTS:CLV

Results reported in mg/kg dry weight

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 12/22/8

LABORATORY DIRECTOR

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Environmental Testing Laboratories
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Water/Waste Water Laboratory • Hazardous Waste Laboratory • Air Testing Laboratory
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LABORATORY REPORT

LAB NO. 762635
PROJECT NO. SHMP 8605

CLIENT'S NAME AND ADDRESS

TOWN OF SOUTHAMPTON

HAMPTON ROAD

SOUTHAMPTON, NY 11968

TYPE OF SAMPLE - MISCELLANEOUS COLLECTED BY JFA &
DATE COLLECTED - 10/14/87 DATE RECEIVED - 10/14/87

TOWN OF SOUTHAMPTON NORTH SEA LANDFILL
SURFACE SOIL SAMPLES
FULL CLP & COC

LAB NO.	SAMPLE ID INFORMATION	LEAD	MERCURY	NICKEL	SELENIUM	SILVER	THALLIUM
762635	SURFACE SOIL #20	17.4	<0.10	<5.00	<0.60	<1.30 NE	<1.10
762636	SURFACE SOIL #19	1.20	<0.10	<5.00	<0.60	<1.30 NE	<1.10
762637	SURFACE SOIL #18	1.90	<0.10	<5.00	<0.60	<1.30 NE	<1.10
762638	SURFACE SOIL #16	4.30	<0.10	<5.00	<0.50	<1.30 NE	<1.00
762639	SURFACE SOIL #15	0.70	0.50	<5.00	<0.50	<1.30 NE	<1.00
762640	SURFACE SOIL #14	10.4	<0.10	<5.00	<0.50	<1.30 NE	<1.00
762641	SURFACE SOIL #13	6.90	<0.10	<5.00	<0.60	<1.30 NE	<1.10
762642	SURFACE SOIL #12	17.1	<0.10	<5.00	<0.70	<1.30 NE	<1.30
762643	SURFACE SOIL #11	4.60	<0.10	10.0	<0.60	<1.30 NE	<1.10

REMARKS - BILLS & REPORTS:CLV

Results reported in mg/kg dry weight

ALL RESULTS IN (MG/L.) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
HPC & FECAL STREP (COUNTS/ML.)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 12/22/87

LABORATORY DIRECTOR

E90

H2M LABS, INC.
Environmental Testing Laboratories
575 Broad Hollow Road, Melville, New York 11747-5076 • (516) 694-3040

Water/Waste Water Laboratory • Hazardous Waste Laboratory • Air Testing Laboratory
Pilot Plant Studies and Other Analytical Services

LABORATORY REPORT

LAB NO. 762635
PROJECT NO. SHMP 8605

CLIENT'S NAME AND ADDRESS	
TOWN OF SOUTHAMPTON HAMPTON ROAD SOUTHAMPTON, NY 11968	TYPE OF SAMPLE - MISCELLANEOUS COLLECTED BY JFA 03 DATE COLLECTED - 10/14/87 DATE RECEIVED - 10/14/87 TOWN OF SOUTHAMPTON NORTH SEA LANDFILL SURFACE SOIL SAMPLES FULL CLP & COC

LAB NO.	SAMPLE ID INFORMATION	ZINC
762635	SURFACE SOIL #20	13.4
762636	SURFACE SOIL #19	4.30
762637	SURFACE SOIL #18	7.50
762638	SURFACE SOIL #16	8.30
762639	SURFACE SOIL #15	3.90
762640	SURFACE SOIL #14	9.20
762641	SURFACE SOIL #13	21.0
762642	SURFACE SOIL #12	33.0
762643	SURFACE SOIL #11	11.0

REMARKS - BILLS & REPORTS:CLV Results reported in mg/kg dry weight

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 12/22/8

LABORATORY DIRECTOR

H2M LABS, INC.
Environmental Testing Laboratories
575 Broad Hollow Road, Melville, New York 11747-5076 • (516) 694-3040

Water/Waste Water Laboratory • Hazardous Waste Laboratory • Air Testing Laboratory
Pilot Plant Studies and Other Analytical Services

LABORATORY REPORT

LAB NO. 762655
PROJECT NO. SHMP 8605

CLIENT'S NAME AND ADDRESS

TOWN OF SOUTHAMPTON

HAMPTON ROAD

SOUTHAMPTON, NY 11968

TYPE OF SAMPLE - POTABLE WATER COLLECTED BY JFA 03
DATE COLLECTED - 10/14/87 DATE RECEIVED - 10/14/87

TOWN OF SOUTHAMPTON NORTH SEA LANDFILL
AQUEOUS SAMPLES
FULL CLP & COC

LAB NO.	SAMPLE ID INFORMATION	ANTI-MONY	ARSENIC	BERYL-LIUM	CADMIUM	CHROM-IUM	COPPER
762655	FIELD BLANK	<60.0 #	<10.0 #	<5.00#	<5.00#	<10.0 #	<25.0 #
762656	TRIP BLANK	<60.0 #	<10.0 #	<5.00#	<5.00#	<10.0 #	<25.0 #

REMARKS - BILLS & REPORTS: CLV

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML.)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 12/22/8

LABORATORY DIRECTOR

$90C

SERVICE RENDERED AND PAID

H2M LABS, INC.
Environmental Testing Laboratories
575 Broad Hollow Road, Melville, New York 11747-5076 • (516) 694-3040

Water/Waste Water Laboratory • Hazardous Waste Laboratory • Air Testing Laboratory
Pilot Plant Studies and Other Analytical Services

LABORATORY REPORT

LAB NO. 762655
PROJECT NO. SHMP 8605

CLIENT'S NAME AND ADDRESS	
TOWN OF SOUTHAMPTON HAMPTON ROAD SOUTHAMPTON, NY 11968	TYPE OF SAMPLE - POTABLE WATER COLLECTED BY JFA 03 DATE COLLECTED - 10/14/87 DATE RECEIVED - 10/14/87 TOWN OF SOUTHAMPTON NORTH SEA LANDFILL AQUEOUS SAMPLES FULL CLP & COC

LAB NO.	SAMPLE ID INFORMATION	LEAD	MERCURY	NICKEL	SELENIUM	SILVER	THALLIUM
762655	FIELD BLANK	<5.00#	<0.20#	<40.0 #	<5.00#	<10.0 #	<10.0 #
762656	TRIP BLANK	<5.00#	<0.20#	<40.0 #	<5.00#	<10.0 #	<10.0 #

REMARKS - BILLS & REPORTS: CLV

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 12/22/87

9900

LABORATORY DIRECTOR

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Environmental Testing Laboratories
575 Broad Hollow Road, Melville, New York 11747-5076 • (516) 694-3040

Water/Waste Water Laboratory • Hazardous Waste Laboratory • Air Testing Laboratory
Pilot Plant Studies and Other Analytical Services

LABORATORY REPORT

LAB NO. 762655
PROJECT NO. SHMP 8605

CLIENT'S NAME AND ADDRESS	TYPE OF SAMPLE - POTABLE WATER COLLECTED BY JFA 03 DATE COLLECTED - 10/14/87 DATE RECEIVED - 10/14/87
TOWN OF SOUTHAMPTON HAMPTON ROAD SOUTHAMPTON, NY 11968	TOWN OF SOUTHAMPTON NORTH SEA LANDFILL AQUEOUS SAMPLES FULL CLP & COC

LAB NO.	SAMPLE ID INFORMATION	ZINC	BARIUM
762655	FIELD BLANK	<20.0 #	<200.#
762656	TRIP BLANK	<20.0 #	<200.#

REMARKS - BILLS & REPORTS: CLV

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

L900

DATE REPORTED 12/22/87

LABORATORY DIRECTOR

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Pilot Plant Studies and Other Analytical Services

LABORATORY REPORT

LAB NO. 762616
PROJECT NO. SHMP 8605

CLIENT'S NAME AND ADDRESS	
TOWN OF SOUTHAMPTON HAMPTON ROAD SOUTHAMPTON, NY 11968	TYPE OF SAMPLE - MISCELLANEOUS COLLECTED BY JFA 03 DATE COLLECTED - 10/14/87 DATE RECEIVED - 10/14/87 TOWN OF SOUTHAMPTON NORTH SEA LANDFILL SURFACE SOIL #17 1245 HRS. FULL CLP & COC

PARAMETER	RESULT
CYANIDE	<1.00
PHENOLS	<0.10
TOTAL SOLIDS	91.0 %

All results in mg/kg or % dry weight

REMARKS - BILLS & REPORTS:CLV

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
FEC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 11/ 3/87

LABORATORY DIRECTOR

8906

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Environmental Testing Laboratories
575 Broad Hollow Road, Melville, New York 11747-5076 • (516) 694-3040

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Pilot Plant Studies and Other Analytical Services

LABORATORY REPORT

LAB NO. 762644
PROJECT NO. SHMP 8605

CLIENT'S NAME AND ADDRESS

TOWN OF SOUTHAMPTON

HAMPTON ROAD

SOUTHAMPTON, NY 11968

TYPE OF SAMPLE - MISCELLANEOUS COLLECTED BY JFA 03
DATE COLLECTED - 10/14/87 DATE RECEIVED - 10/14/87

TOWN OF SOUTHAMPTON NORTH SEA LANDFILL
SURFACE SOIL SAMPLES
FULL CLP & COC

LAB NO.	SAMPLE ID INFORMATION	CYANIDE	PHENOLS	TOTAL SOLIDS
762644	SURFACE SOIL #20	<1.00	<0.10	95.0 %
762645	SURFACE SOIL #19	<1.00	<0.10	89.0 %
762646	SURFACE SOIL #18	<1.00	<0.10	93.0 %
762647	SURFACE SOIL #16	<1.00	<0.10	96.0 %
762648	SURFACE SOIL #15	<1.00	<0.10	98.0 %
762649	SURFACE SOIL #14	<1.00	<0.10	96.0 %
762650	SURFACE SOIL #13	<1.00	<0.10	94.0 %
762651	SURFACE SOIL #12	<1.00	<0.10	79.0 %
762652	SURFACE SOIL #11	<1.00	<0.10	90.0 %

All results in mg/kg or % dry weight

REMARKS - BILLS & REPORTS:CLV

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 11/ 3/87

LABORATORY DIRECTOR

8906

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Environmental Testing Laboratories
575 Broad Hollow Road, Melville, New York 11747-5076 • (516) 694-3040

Water/Waste Water Laboratory • Hazardous Waste Laboratory • Air Testing Laboratory
Pilot Plant Studies and Other Analytical Services

LABORATORY REPORT

LAB NO. 762657
PROJECT NO. SHMP 8605

CLIENT'S NAME AND ADDRESS	
TOWN OF SOUTHAMPTON HAMPTON ROAD SOUTHAMPTON, NY 11968	TYPE OF SAMPLE - POTABLE WATER COLLECTED BY JFA 03 DATE COLLECTED - 10/14/87 DATE RECEIVED - 10/14/87 TOWN OF SOUTHAMPTON NORTH SEA LANDFILL AQUEOUS SAMPLES FULL CLP & COC

LAB NO.	SAMPLE ID INFORMATION	CYANIDE	PHENOLS
762657	FIELD BLANK	<10.0 #	<0.10
762658	TRIP BLANK	<10.0 #	<0.10

REMARKS - BILLS & REPORTS:CLV

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
02 & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 11/24/87

LABORATORY DIRECTOR

H2M LABORATORY

III. 2. Reporting Package for
I.D.# Surface Soil #17

CHAIN OF CUSTODY RECORD

PROJ. NO. 3HMP6005 | PROJECT NAME RI/FS North Side Landfill

SAMPLERS: (Signature) J. Angyal

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Bottle B (HNO3)	Bottle E (unpres)	Bottle I	Bottle I (P) H2SO4	Bottle K 1 2+ Glass	Bottle K Ecz Glass	1 Gallon Plastic	Bottle H (NaOH)	REMARKS
SB#17	10/14	12:30pm	✓		SURFACE SOIL #17	1	–	–	–	–	1	–	USE FOR MS/MSD Sample		
SB#20	10/14	2:30pm	✓		SURFACE SOIL #20	3	–	1	–	–	–	1	1	–	– Split w/ Texas
SB#19	10/14	2:30pm	✓		SURFACE SOIL #19	3	–	1	–	–	–	1	1	–	–
SB#18	10/14	1:30pm	✓		SURFACE SOIL #18	3	–	1	–	–	–	1	1	–	– Split w/ Texas
SB#16	10/14	11:30am	✓		SURFACE SOIL #16	3	–	1	–	–	–	1	1	–	–
SB#15	10/14	11:30am	✓		SURFACE SOIL #15	3	–	1	–	–	–	1	1	–	– Split w/ Texas
SB#14	10/14	10:45am	✓		SURFACE SOIL #14	3	–	1	–	–	–	1	1	–	–
SB#13	10/14	10:30am	✓		SURFACE SOIL #13	3	–	1	–	–	–	1	1	–	–
SB#12	10/14	10:00am	✓		SURFACE SOIL #12	3	–	1	–	–	–	2		–	1 clear / 1 Brown
SB#11	10/14	9:15am	✓		SURFACE SOIL #11	3	–	1	–	–	–	2		–	1 clear / 1 Brown
	10/14	8:30am		✓	Field Blank	5	1	–	2	1	–	–	–	–	1 – filled 1st / Hung
	10/13	1400 HRS	–	✓	Trip Blank	5	1	–	2	1	–	–	–	–	1 –
	10/13	1430 HRS	–	✓	Field Blank Water	2	–	–	–	–	–	–	–	2	–

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Stuart W. Hurpel	10/14/87 0700	James Angyal			
J. Angyal	10/14/87				

Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks
			10/14/87 1815	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

3072

Full CLP + COC

HLM LABORATORY

Town of Southampton
North Sea Landfill (7)
ID# SHMP 8605

Page 1

Continuing Chain of Custody

Samples Received by Jim Padilla date 10/14/87 time 1815 HRS.

Signature J. Padilla

No. of bottles received	client Sample ID's	type USE FOR MS MSD ALSO	EPT+ EPT+ Metals HLM	P.P. Metals + HLM lab no. DUP	CN Phen TS	X.BN X.AE X.PH
1	surface soil #17	glass 4 oz	762614	762615	762616	762613
2	surface soil #20	1 Round plastic - 1 4 oz amber glass	762626	762635	762644	—
2	surface soil #19	" " — " "	762627	762636	762645	—
2	surface soil #18	" " — " "	762628	762637	762646	—
2	surface soil #16	" " — " "	762629	762638	762647	—
2	surface soil #15	" " — " "	762630	762639	762648	—
2	surface soil #14	" " — " "	762631	762640	762649	—
2	surface soil #13	" " — " "	762632	762641	762650	—
2	surface soil #12	1 4 oz. amberglass — " "	762633	762642	762651	—
2	surface soil #11	" " — " "	762634	762643	762652	—
2	Field Blank	1 B 1 H	~~762~~	P.P. metals + Ba 762655	CN phen 762657	—
2	Trip Blank	1 B 1 H	—	P.P. metals Ba 762656	CN phen 762658	—

Sample Relinquished by	Sample Received by	Date	Time	Bottle Type	Reason
J. Padilla	Jonine Hee	holiday	1740 HRS.	ALL	storage / Analysis
Jonine Hee	Maya Yurkiw	10/19/87	11:10	Rnd & Flask TS	depature / Rel Smith 10/19
Jonine Hee	D. Brodzinski	10/20	10:00	Round plastic	TS
D. Brodzinski	L. Batchman	10/20	11:00	Soil #17	EXTRACTION / CONC
L. Batchman	D. Brodzinski	10/20	1115 HRS	Soil #17	TS
D. Brodzinski	Jonine Hee	10/21	10:00	all round plastic	storage / analysis
Jonine Hee	Blake J. Gautier	10/21	2:30	round plastic	EPTOX
Blake J. Gautier	Jonine Hee	10/22	12:10	round plastic	storage

CLP

H2M LABORATORY

Full CLP + QQC

Town of Southampton
North Sea Land fill
ID# SHMP 8605

Page 1

Continuing Chain of Custody

Samples Received by Jim Padilla date 10/14/87 time 1815 HRS.

Signature Jim Padilla

No. of bottles received	client sample ID#	type	H2M lab no. X·BN X·AE X·PH
1	surface soil #20	amber glass 40z 1	762617
1	surface soil #19	" "	762618
1	surface soil #18	" "	762619
1	surface soil #16	" "	762620
1	surface soil #15	" "	762621
1	surface soil #14	" "	762622
1	surface soil #13	" "	762623
1	surface soil #12	" "	762624
1	surface soil #11	" "	762625
2	Field Blank	2 I	762653
2	Trip Blank	2 I	762654

Sample Relinquished by	Sample Received by	Date	Time	Bottle Type	Reason
Jim Padilla	J.H. Barthman	10/15/87	1740 MLL	ALL	Storage / Analysis
J.H. Barthman	Mark J. Gardner	10/19/87	0900 MLS	762653 762654	Extraction / concen
Mark J. Gardner	J.H. Barthman	10/19/87	1600 MLS	762653 762654	storage
J.H. Barthman	Glenn K Bottcher	10/20/87	1500	All vials	Analysis

0074

SAMPLE PREPARATION FOR ORGANIC PRIORITY POLLUTANT EXTRACTABLES

H2M LABS, INC.

Environmental and Industrial Analytical Laboratory
575 Broad Hollow Road, Melville, NY 11747-5076

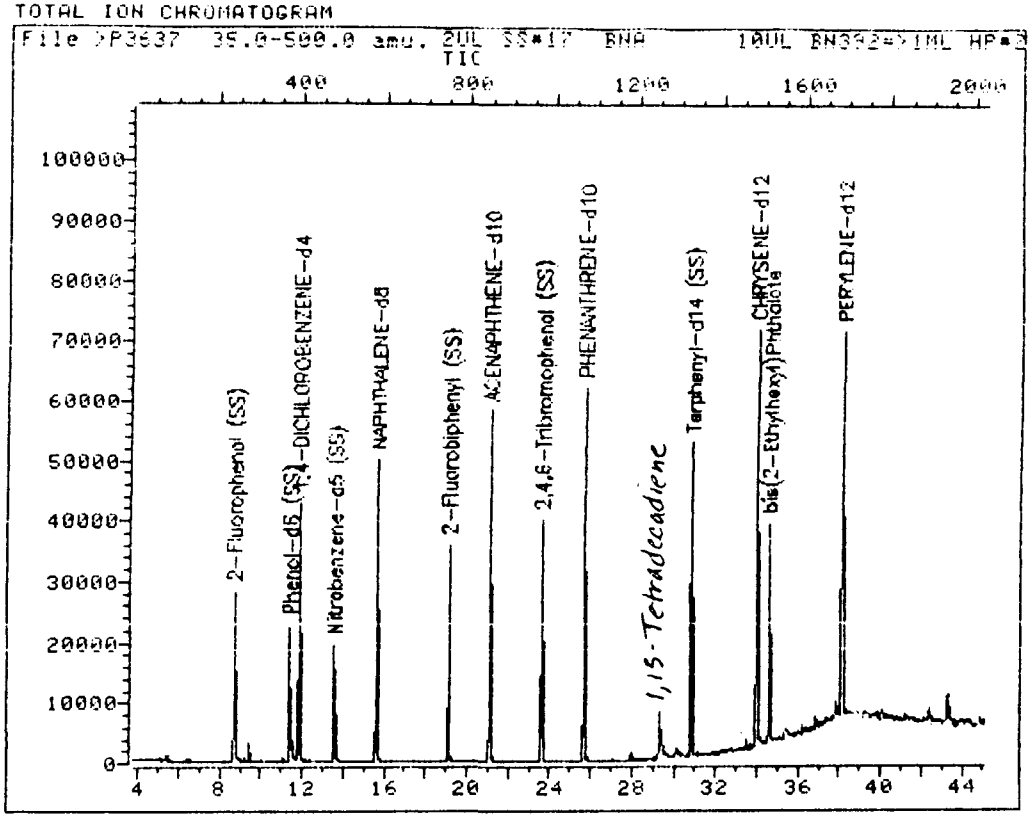
(516) 694-3040

LAB #	762625	762613	762613	762613	762824	762911	B-208	762933
LAB # PP								762934
Client Client Sample #	TSH SS#11	TSH SS#17	TSH SS#17	TSH SS#17	DPW	ESTEE LAUDER		TSH
SCANS	BNA	MS BNA	MSD BNA	BNA	BE	BN/BE	BN/AE TP	BN/AE TP
PROTOCOL	CLP	CLP	CLP	CLP			CLP	CLP
EXTRACTION DATE	10-20	10-20	10-20	10-20	10-23	10-23	10-23	10-23
ANALYST	LAB	LAB	LAB	LAB	@	@	MFB	MFB
METHOD	SOM	SOM	SOM	SOM	SF	SF	SF	SF
SAMPLE VOLUME g	25.0652	25.1028	25.1134	25.2888	500 ml	1000 ml	1000 ml	1000 ml
SURROGATE NUMBER/VOLUME	BN486 PH 193 1ml each	BN486 PH 193 1ml each	BN486 PH 193 1ml each	BN486 PH 193	PH 193 1 ml	BN 486 PH 193 1ml each	BN486 PH 193 1ml each	BN486 PH 193 1ml each
MATRIX SPIKE NUMBER/VOLUME		BN 484 PH 191 1ml each	BN 484 PH 191 1ml each					
BN EXTRACT SPLIT	N	N	N	N	N	N	Y	Y
CONCENTRATED DATE/INITIALS BN/AE	LAB	LAB	LAB	LAB				
CONCENTRATION BN	—	—	—	—	—	0.5 ml	0.5 ml	0.5 ml
VOLUME AE	—	—	—	—	5 ml	0.5 ml	0.5 ml	1 ml
(SOIL) BNA	5 ml	3 ml	3 ml	3 ml	—	—	—	—
PP CONCENTRATED DATE/ANALYST								
PP CONCENTRATION VOLUME								
ALUMINA CLEANED								
Bio Bead Cleaned	BB	BB	BB	BB	BB	—	—	—
REMARKS								

Semi-Volatile BNA

A	date	direct inj.	RUN #	STD SOL. # client	ul	Sample # / Lab #	Comments	Internal standard ul	Sol. #	Sol. Vol.	Tape	CRN.	Track	QUANT.	Reported	Date
GKB	11/3	MS	3636		2	SS#11	762625	10	BN 3921	1.0			B2			
			3637			SS#17	762613									
			3638			SS#17 MS	762613									
			3639			SS#17 MSD	762613									
GKB	11/4	MJ	DF 150		2	MS 44							B1			
			3640			25 ug/ml HSL		10	BN 3921	1.0			B1			
			3641			Method Blank 211							B3			
			3642			MW1A	763388									
			3643			MW1A MS	763388									
			3644			MW1A MSD	763388									
			3645			MW1B	763392									
			3646			MW1C	763396									
			3647			Field Blank	763400									
			3648			Trip Blank	763404									
			3649			Method Blank 212										
			3650			MW 4B	763428									
			3651			MW4B MS	763428									
			3652			MW 4B MSD	763428									
			3653			763417 BNA										
			3654			763342 BNA										
			3655			763281 XAE										
			3656			762824 XAE										
GKB	11/5	MJ	DF 151		2	MS 44	50 ng DFTPP						B1			
			3657			25 ug/ml HSL Std		10	BN 3921	1.0			B3			
			3658			MW 4A										
			3659			MW 4C										
			3660			Field Blank										
			3661			Trip Blank										
			3662			Method Blank 213										
			3663			MW 3C										

TOTAL ION CHROMATOGRAM



Data File: >P3637::B2 Quant Output File: ^P3637::QT
Name: 2UL SS#17 BNA
Misc: 10UL BN392=>1ML HP#2 762613 BTL#71

Id File: !IDXPP::ME
Title: PRIORITY POLLUTANTS
Last Calibration: 871103 12:07

Operator ID: GLENN
Quant Time: 871103 21:17
Injected at: 871103 20:31

QUANT REPORT

Operator ID: GLENN Quant Rev: 6 Quant Time: 871103 21:17
Output File: ^P3637::QT Injected at: 871103 20:31
Data File: >P3637::B2 Dilution Factor: 1.00000
Name: 2UL SS#17 BNA
Misc: 10UL BN392=>1ML HP#2 762613 BTL#71

ID File: !IDXPP::ME
Title: PRIORITY POLLUTANTS
Last Calibration: 871103 12:07

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	11.84	397	15008	40.00	ug/mL	93
3)	2-Fluorophenol (SS)	8.66	241	23798	58.69	ug/mL	71
6)	Phenol-d6 (SS)	11.39	375	31572	61.35	ug/mL	95
14)	*NAPHTHALENE-d8	15.60	582	53133	40.00	ug/mL	61
15)	Nitrobenzene-d5 (SS)	13.53	480	17527	25.08	ug/mL	85
26)	*ACENAPHTHENE-d10	21.06	850	34379	40.00	ug/mL	97
30)	2-Fluorobiphenyl (SS)	19.09	753	32819	36.62	ug/mL	99
41)	2,4,6-Tribromophenol (SS)	23.57	973	18237	65.22	ug/mL	77
42)	*PHENANTHRENE-d10	25.62	1074	71701	40.00	ug/mL	63
52)	*CHRYSENE-d12	33.96	1483	82798	40.00	ug/mL	52
53)	Terphenyl-d14 (SS)	30.82	1329	49681	22.81	ug/mL	39
59)	bis(2-Ethylhexyl)Phthalate	34.59	1514	25245	9.22	ug/mL	89
61)	*PERYLENE-d12	38.12	1687	96572	40.00	ug/mL	78

* Compound is ISTD

0078

MS data file header from : >P3637

Sample: 2UL SS#17 BNA Operator: GLENN MS 11/03/87 20:31
Misc : 10UL BN392=>1ML HP#2 762613 BTL#71
Sys. #: 2 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: EXTBNA Tuning file: MT8002 No. of extra records: 2
Source temp.: 0 Analyzer temp.: 280 Transfer line temp. : 0

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	4.0	7.3	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	.5	0.0

>P3637 2UL SS#17 BNA 10UL BN392=>1ML HP#2 762613
35.01 500.0 CLP ADC TIC
Upslope: .20 Area Reject: 9838. Max Peaks: 6 Bunching: 1
Dnslope: 0.00 Results File IP3637 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	29.29	1251	1254	1266	7535	57729	46881	100.00	41.254
2	35.43	1550	1555	1560	1412	59978	10622	22.66	9.347
3	36.82	1621	1623	1627	2254	48792	10380	22.14	9.134
4	42.33	1890	1893	1899	2651	80618	12312	26.26	10.834
5	43.23	1933	1937	1939	3926	69160	18598	39.67	16.366
6	43.32	1939	1941	1945	4015	66660	14846	31.67	13.064

Sum of corrected areas: 113639.

Summary of Unknowns PBM Library Search and Quantitation

Standard	Concentration	Area	Retention Time	Unknown Window
1	40.0	98379.	11.84	3.77 - 13.72
2	40.0	118202.	15.60	13.72 - 18.33
3	40.0	153793.	21.06	18.33 - 23.34
4	40.0	174761.	25.63	23.34 - 29.79
5	40.0	216721.	33.96	29.79 - 36.04
6	40.0	274114.	38.13	36.04 - 45.05

Dilution Factor (DF) = 1.00 Fractional Solids (FS) = 1.00
Amount Method (AM) = 1000.00 Amount Used (AU) = 25.10

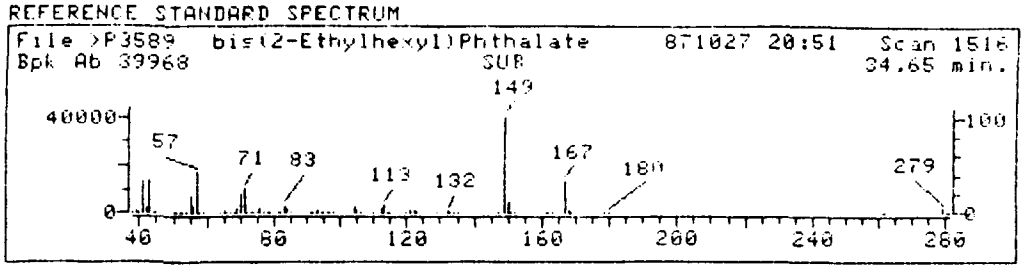
Correction Factor = 39.85 = (AM / AU) / (DF * FS)

$$\text{Unknown Concentration} = \frac{\text{Conc Int Std}}{\text{Area Int Std}} * \text{Area Unk} * \text{Correction Factor}$$

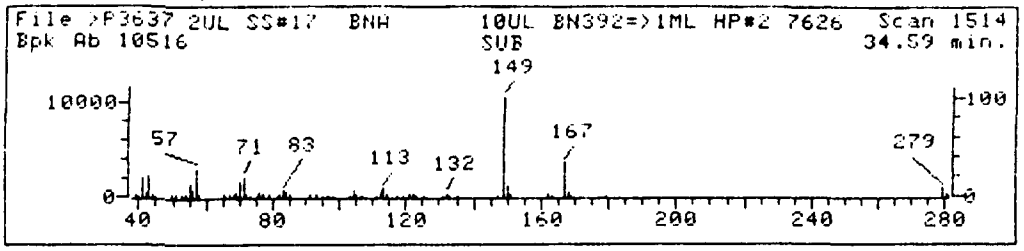
5:45 PM TUE., 10 NOV., 1987

6/45

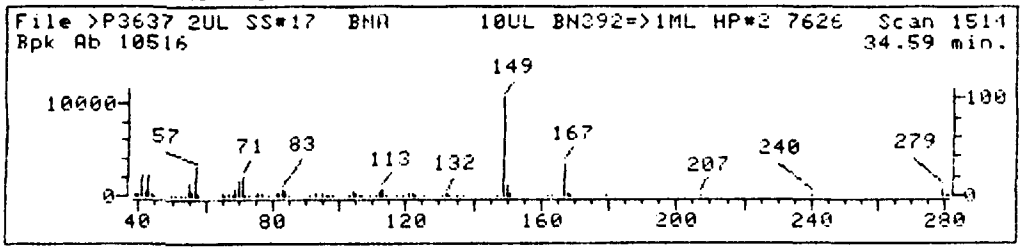
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

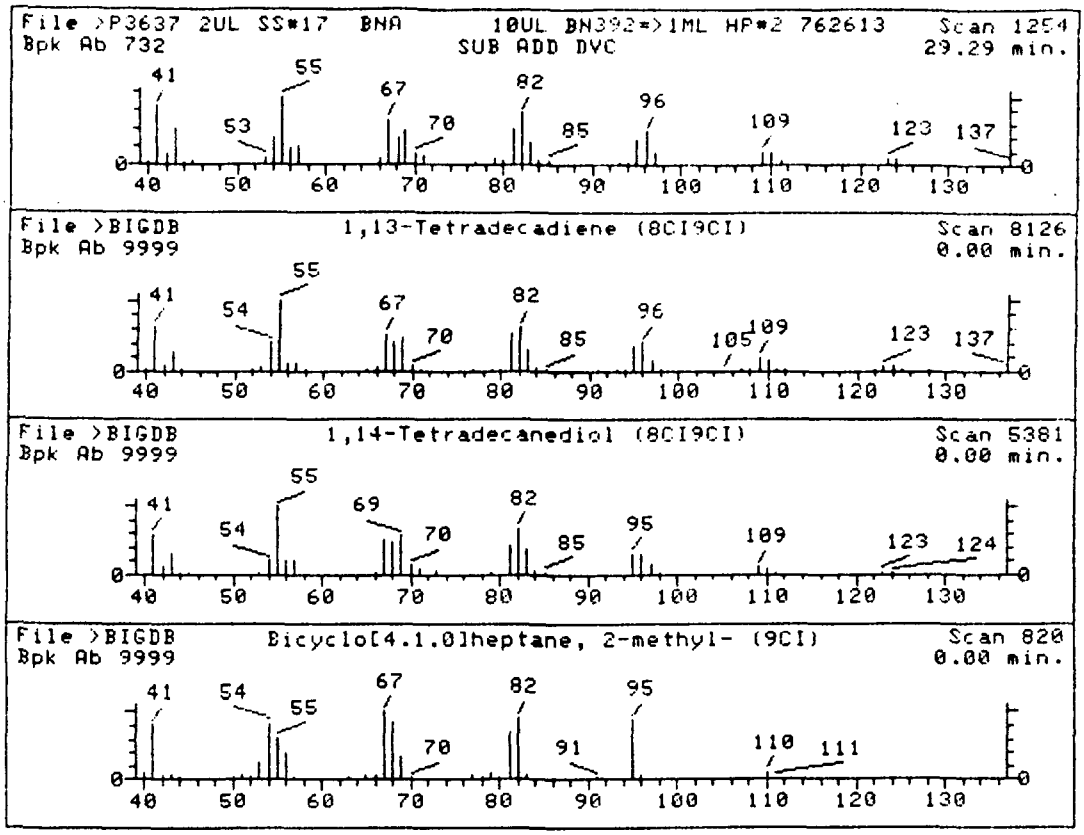


SAMPLE SPECTRUM (UNALTERED)



Data File: >P3637::B2 Quant Output File: ^P3637::QT
Name: 2UL SS#17 BNA
Misc: 10UL BN392=>1ML HP#2 762613 BTL#71
Quant Time: 871103 21:17 Quant ID File: !IDXPP::ME
Injected at: 871103 20:31 Last Calibration: 871103 12:07

Compound No: 59
Compound Name: bis(2-Ethylhexyl)Phthalate
Scan Number: 1514
Retention Time: 34.59 min.
Quant Ion: 149.0
Area: 25245
Concentration: 9.22 ug/mL
q-value: 89



. Unknown #,1
Area = 46881.00 Tentative Concentration is 430.00

1.	1,13-Tetradecadiene (8CI9CI)	194 C14H26
2.	1,14-Tetradecanediol (8CI9CI)	230 C14H30O2
3.	Bicyclo[4.1.0]heptane, 2-methyl- (9CI)	110 C8H14
4.	1-Eicosyne (8CI9CI)	278 C20H38
5.	3-Octadecyne (9CI)	250 C18H34
6.	Bicyclo[2.2.1]heptane, 2-methyl- (9CI)	110 C8H14
7.	3-Hexadecyne (9CI)	222 C16H30

Sample file: >P3637 Spectrum #: 1254
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	87	21964498	8126	"BIGDB	111	17	2	0	98	2	63	49

1803

H2M LABORATORY

III. 2. Reporting Package for
I.D.# Surface Soil #20

CHAIN OF CUSTODY RECORD

PROJ. NO. [illegible] | PROJECT NAME: RI/FS North Sea Landfill

SAMPLERS: [illegible] J. Angyal

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Bottle B (HNO3)	Bottle F (unpres)	Bottle I	Bottle I(P) HNO3	Bottle K 1 2/6 Glass	Bottle K 8 oz Glass	Bottle K Plastic, Gallon Jugs	Bottle H (NaOH)	REMARKS
SS#17	10/14	12:[illegible]	✓		SURFACE SOIL #17	1	–	–	–	–	1	–	USE FOR MS/MSD Sample		
SB#20	10/14	2:[illegible]	✓		SURFACE SOIL #20	3	–	1	–	–	–	1	1	–	– Solvent Rinsed
SB#19	10/14	2:[illegible]	✓		SURFACE SOIL #19	3	–	1	–	–	–	1	1	–	–
SB#18	10/14	1:[illegible]	✓		SURFACE SOIL #18	3	–	1	–	–	–	1	1	–	– Spun w/ Rinsed
SB#16	10/14	12:[illegible]	✓		SURFACE SOIL #16	3	–	1	–	–	–	1	1	–	–
SB#15	10/14	11:[illegible]	✓		SURFACE SOIL #15	3	–	1	–	–	–	1	1	–	– Spun w/ Rinsed
SB#14	10/14	10:[illegible]	✓		SURFACE SOIL #14	3	–	1	–	–	–	1	1	–	–
SB#13	10/14	10:[illegible]	✓		SURFACE SOIL #13	3	–	1	–	–	–	1	1	–	–
SB#12	10/14	9:[illegible]	✓		SURFACE SOIL #12	3	–	1	–	–	–	2		–	1 clear / 1 Brown
SB#11	10/14	9:[illegible]	✓		SURFACE SOIL #11	3	–	1	–	–	–	2		–	1 clear / 1 Brown
	10/14	8:[illegible]		✓	Field Blank	5	1	–	2	1	–	–	–	–	1 – field 1st Rinse
	10/13	1400 hrs	–	✓	Trip Blank	5	1	–	2	1	–	–	–	–	1
	10/13	1430 hrs	–	✓	Field Blank Water	2	–	–	–	–	–	–	–	2	–

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Steven W. Hump	10/14/87 0700	James Angyal			
J. Angyal	10/14/87				

Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks
J. Angyal	10/14/87	J. Taylor	10/14/87 1815	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

3083

H2M LABORATORY

Full CLP & COC

Town of Southampton
North Sea Landfill
ID# SHMP 8605

Page 1

Continuing Chain of Custody

Samples Received by Jim Padilla date 10/14/87 time 1815 HRS.

Signature

No. of bottles received	client Sample ID's	type	H2M lab no. x·BN x·AE x·PH
1	surface soil #20	amber glass 4oz 1	762617
1	surface soil #19	" "	762618
1	surface soil #18	" "	762619
1	surface soil #16	" "	762620
1	surface soil #15	" "	762621
1	surface soil #14	" "	762622
1	surface soil #13	" "	762623
1	surface soil #12	" "	762624
1	surface soil #11	" "	762625
2	Field Blank	2 I	762653
2	Trip Blank	2 I	762654

Sample Relinquished by	Sample Received by	Date	Time	Bottle Type	Reason
		10/15/87	1740 HRS	ALL	Storage / Analysis
		10/19/87	0900 HRS	762653 762654	Extraction concern
		10/19/87	1600 HRS	762653 762654	storage
		10/20/87	1500	All vials	Analysis

3084

SAMPLE PREPARATION FOR ORGANIC PRIORITY POLLUTANT EXTRACTABLES

H2M LABS, INC.

Environmental and Industrial Analytical Laboratory
575 Broad Hollow Road, Melville, NY 11747-5076

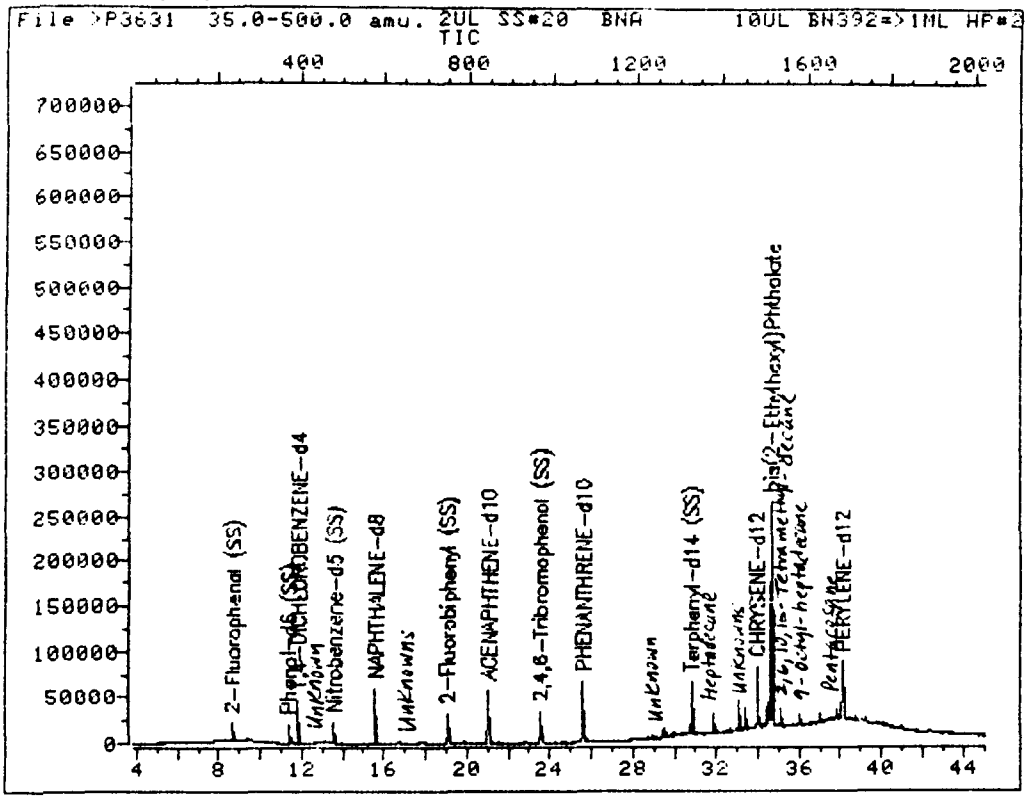
(516) 694-3040

LAB #	762617	762618	762619	762620	762621	762622	762623	762624
LAB # PP								
Client Client Sample #	TSH SS#20	TSH SS#19	TSH SS#18	TSH SS#16	TSH SS#15	TSH SS#14	TSH SS#13	TSH SS#12
SCANS	BNA	BNA	BNA	BNA	BNA	BNA	BNA	BNA
PROTOCOL	CLP	CLP	CLP	CLP	CLP	CLP	CLP	CLP
EXTRACTION DATE	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20
ANALYST	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB
METHOD	SOM	SOM	SOM	SOM	SOM	SOM	SOM	SOM
SAMPLE VOLUME (g)	25.0967	25.0754	25.0019	25.0848	25.0259	25.0690	25.0532	25.0058
SURROGATE NUMBER/VOLUME	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each
MATRIX SPIKE NUMBER/VOLUME								
BN EXTRACT SPLIT	N	N	N	N	N	N	N	N
CONCENTRATED DATE/INITIALS BN/AE	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB
CONCENTRATION VOLUME BN	—	—	—	—	—	—	—	—
AE	—	—	—	—	—	—	—	—
(SOIL) BBA	5ml	1ml	1ml	5ml	1ml	5ml	5ml	5ml
PP CONCENTRATED DATE/ANALYST								
PP CONCENTRATION VOLUME								
ALUMINA CLEANED								
Bio-Bead Cleaned	BB			BB		BB	BB	BB
REMARKS								

Semi-Volatile BNA

A.	date	direct Inj.	RUN #	ST DISK #	Client	Sample # / Lab #	Comments	Autosampler standard: vial	Sol. #	Sol. Vol.	Storage INFO. Tape	C.R.N.	Track	QUANT.	Reposted Date
GKB	10/31	MS	3609		2	SS-18	762619	10	BN 342	1.0			B2		
			3610			SS-15	762621								
			3611			MW-5A	762952								
			3612			MW-5B	762955								
			3613			762911									
			3614			763340									
			3615			763341									
			3616			763343									
			3617			030/30	761657								
↓	↓	↓	3618		↓	West Stockpile		↓	↓	↓			↓		
GKB	10/30	MS	DF 147		2	MS 44							B1		
			~~3619~~	3620		~~Method Blank 206~~	These on OK GKB	10	BN 342	1.0			B1		
			~~3620~~	3621		~~MW6~~	~~762955~~								
			~~3621~~	3622		~~MW6 MS~~	~~762955~~								
			~~3622~~	3623		~~MW6 MSD~~	762955								
			~~3623~~	3624		~~MW2~~	762937								
			~~3624~~	3625		~~Field~~ Blank									
			~~3625~~	3626		Trip Blank									
↓	↓	↓	~~3626~~	3627	↓	25 mg/ml HSL Std		↓	↓	↓			↓		
GKB	11/1	MS	DF1*		2	MS 44							B1		
GKB	11/3	MS	DF147 ~~3627~~		2	MS 44	50 mg DFTPP						B1		
GKB	11/3	MS	3627			25 mg/ml HSL Std		10	BN 342	1.0			B2		
			3628			Method Blank 206									
			3629			Field Blank	762653								
			3630			Trip Blank	762654								
			3631			SS #20	762617								
			3632			SS #16	762620								
			3633			SS #14	762622								
			3634			SS #13	762623								
↓	↓	↓	3635		↓	SS #12	762624	↓	↓	↓			↓		

TOTAL ION CHROMATOGRAM



Data File: >P3631::B2 Quant Output File: ^P3631::QT
Name: 2UL SS#20 BNA
Misc: 10UL BN392=>1ML HP#2 762617 BTL#65

Id File: !IDXPP::ME
Title: PRIORITY POLLUTANTS
Last Calibration: 871103 12:07

Operator ID: GLENN
Quant Time: 871103 15:40
Injected at: 871103 14:53

QUANT REPORT

Operator ID: GLENN Quant Rev: 6 Quant Time: 871103 15:40
Output File: ^P3631::QT Injected at: 871103 14:53
Data File: >P3631::B2 Dilution Factor: 1.00000
Name: 2UL SS#20 BNA
Misc: 10UL BN392=>1ML HP#2 762617 BTL#65

ID File: !IDXPP::ME
Title: PRIORITY POLLUTANTS
Last Calibration: 871103 12:07

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	11.83	395	16613	40.00	ug/mL	95
3)	2-Fluorophenol (SS)	8.66	239	11474	25.56	ug/mL	45
6)	Phenol-d6 (SS)	11.36	372	24605	43.19	ug/mL	97
14)	*NAPHTHALENE-d8	15.58	579	62784	40.00	ug/mL	58
15)	Nitrobenzene-d5 (SS)	13.52	478	17374	21.04	ug/mL	81
26)	*ACENAPHTHENE-d10	21.04	847	44779	40.00	ug/mL	95
30)	2-Fluorobiphenyl (SS)	19.06	750	37013	31.71	ug/mL	98
41)	2,4,6-Tribromophenol (SS)	23.55	970	16686	45.82	ug/mL	82
42)	*PHENANTHRENE-d10	25.60	1071	93092	40.00	ug/mL	69
52)	*CHRYSENE-d12	33.96	1480	93357	40.00	ug/mL	56
53)	Terphenyl-d14 (SS)	30.81	1326	54804	22.32	ug/mL	40
59)	bis(2-Ethylhexyl)Phthalate	34.66	1514	297763	96.49	ug/mL	88
61)	*PERYLENE-d12	38.12	1683	104707	40.00	ug/mL	77

* Compound is ISTD

MS data file header from : >P3631

Sample: 2UL SS#20 BNA Operator: GLENN MS 11/03/87 14:53
Misc : 10UL BN392=>1ML HP#2 762617 BTL#65
Sys. #: 2 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: EXTBNA Tuning file: MT8002 No. of extra records: 2
Source temp.: 0 Analyzer temp.: 280 Transfer line temp. : 0

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	4.0	7.3	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	.5	0.0

>P3631 2UL SS#20 BNA 10UL BN392=>1ML HP#2 762617
35.01 500.0 CLP ADC TIC
Upslope: .20 Area Reject: 11254. Max Peaks: 13 Bunching: 1
Dnslope: 0.00 Results File IP3631 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	13.10	453	457	462	3350	28083	12179	15.35	3.035
2	16.66	627	632	642	2596	18739	14321	18.05	3.569
3	17.68	676	682	684	2025	16307	14938	18.83	3.723
4	29.48	1258	1261	1263	9952	60668	22582	28.47	5.628
5	29.95	1282	1284	1289	4028	78904	11667	14.71	2.908
6	31.91	1378	1380	1383	20214	107522	41003	51.69	10.219
7	33.02	1431	1434	1436	31829	163507	79320	100.00	19.768
8	33.35	1447	1450	1454	25261	181334	58601	73.88	14.604
9	35.05	1531	1533	1536	20069	139951	43626	55.00	10.872
10	36.01	1578	1580	1582	12024	122154	23596	29.75	5.880
11	36.95	1624	1626	1628	9895	130158	17610	22.20	4.389
12	37.86	1668	1670	1674	12688	212042	38787	48.90	9.666
13	39.23	1735	1737	1742	5824	200164	23029	29.03	5.739

Sum of corrected areas: 401259.

Summary of Unknowns PBM Library Search and Quantitation

Standard	Concentration	Area	Retention Time	Unknown Window
1	40.0	112543.	11.83	3.81 - 13.71
2	40.0	142154.	15.58	13.71 - 18.31
3	40.0	207985.	21.04	18.31 - 23.32
4	40.0	166012.	25.60	23.32 - 29.78
5	40.0	231030.	33.96	29.78 - 36.04
6	40.0	311864.	38.12	36.04 - 45.04

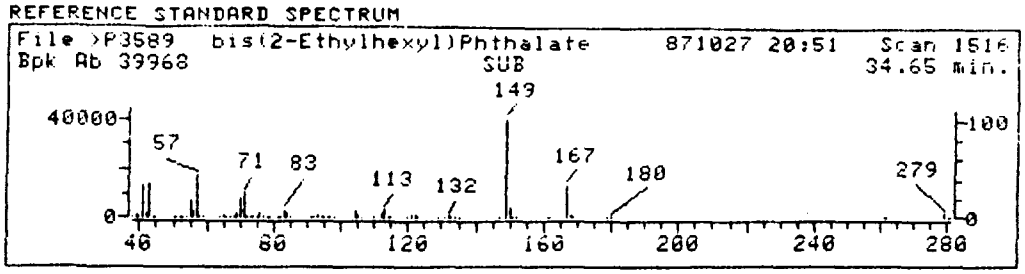
Dilution Factor (DF) = 1.00 Fractional Solids (FS) = 1.00
Amount Method (AM) = 1000.00 Amount Used (AU) = 25.10

Correction Factor = 39.85 = (AM / AU) / (DF * FS)

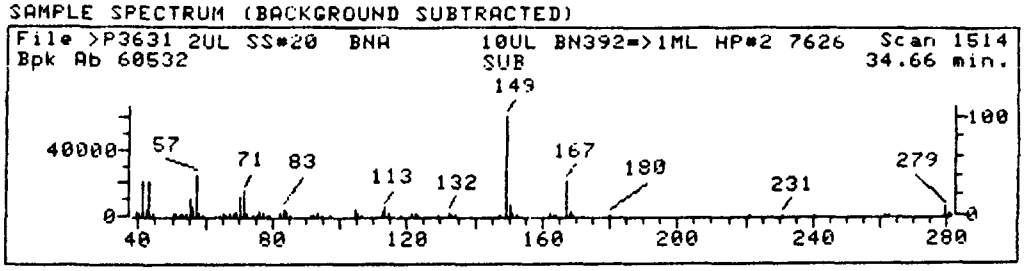
Conc I 7:37 PM TUE., 10 NOV., 1987
Unknown Concentration = ---------- * Area Unk * Correction Factor

6886

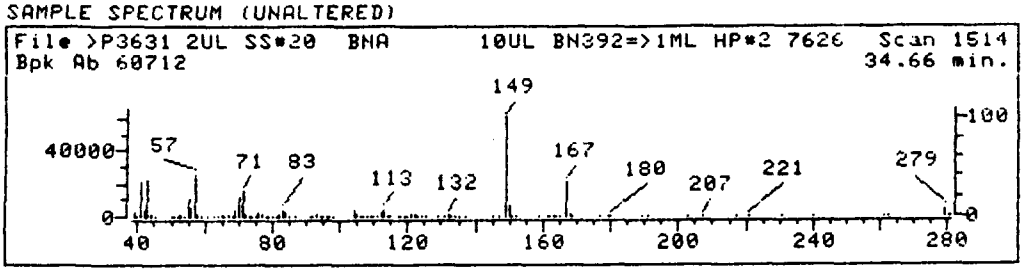
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

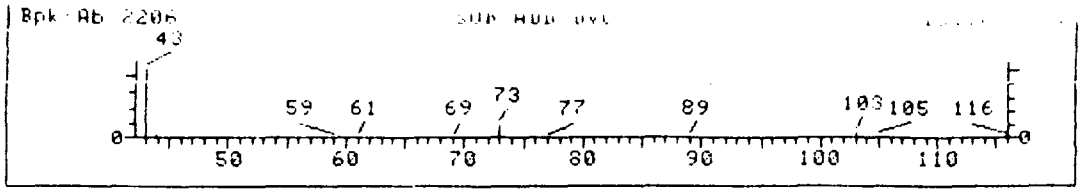


SAMPLE SPECTRUM (UNALTERED)



Data File: >P3631::B2 Quant Output File: ^P3631::QT
Name: 2UL SS#20 BNA
Misc: 10UL BN392=>1ML HP#2 762617 BTL#65
Quant Time: 871103 15:40 Quant ID File: !IDXPP::ME
Injected at: 871103 14:53 Last Calibration: 871103 12:07

Compound No: 59
Compound Name: bis(2-Ethylhexyl)Phthalate
Scan Number: 1514
Retention Time: 34.66 min.
Quant Ion: 149.0
Area: 297763
Concentration: 96.49 ug/mL
q-value: 88



. Unknown #,1
Area = 12179.00 Tentative Concentration is 170.00

Sample file: >P3631 Spectrum #: 457

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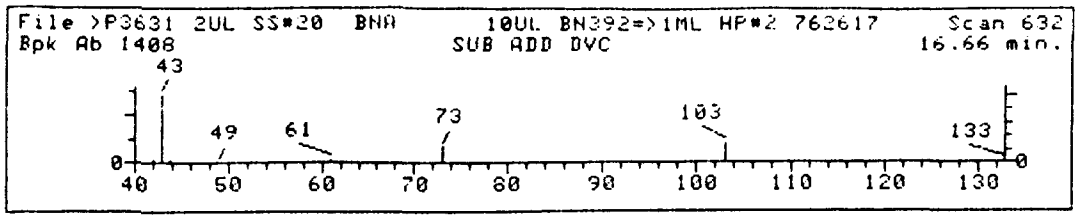
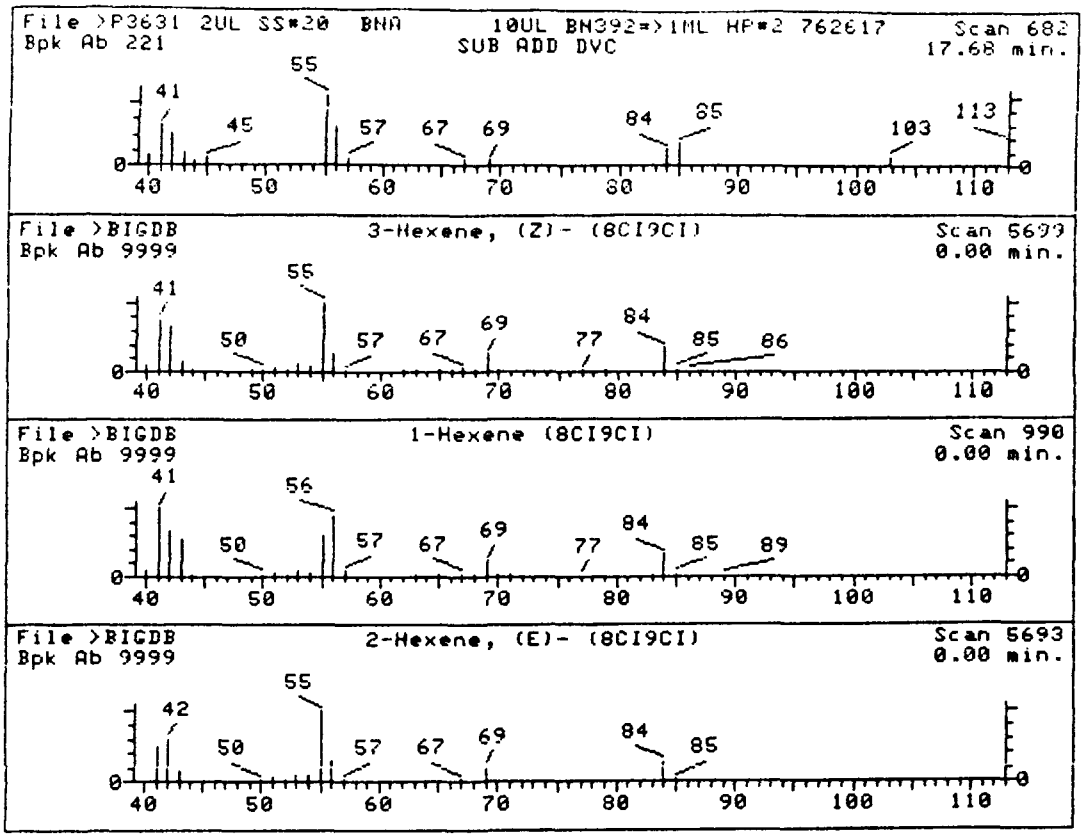


. Unknown #,2
Area = 14321.00 Tentative Concentration is 160.00

Sample file: >P3631 Spectrum #: 632

No data base entries were retrieved.

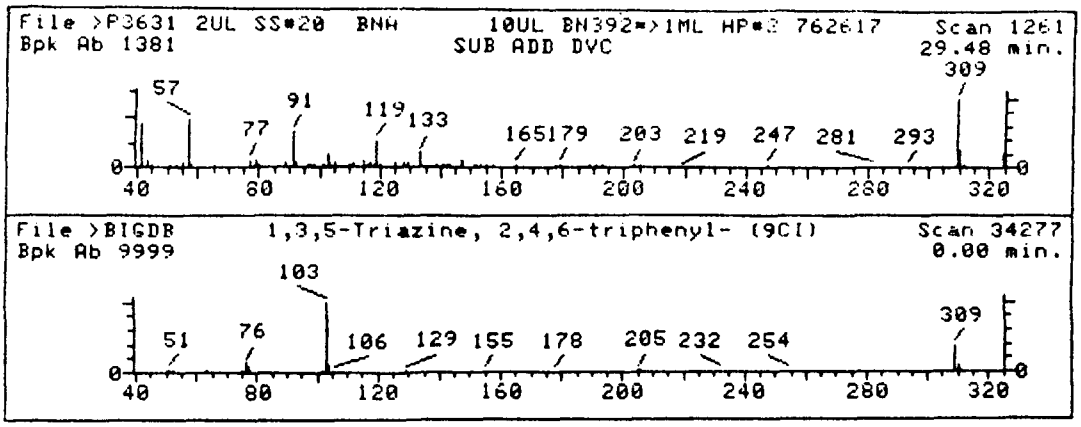


. Unknown #,3
Area = 14938.00 Tentative Concentration is 170.00

1.	3-Hexene, (Z)- (8CI9CI)	84 C6H12
2.	1-Hexene (8CI9CI)	84 C6H12
3.	2-Hexene, (E)- (8CI9CI)	84 C6H12
4.	6-Oxabicyclo[3.1.0]hexane (8CI9CI)	84 C5H8O
5.	1-Pentene, 2-methyl- (8CI9CI)	84 C6H12
6.	1H-Tetrazole, 5-methyl- (8CI9CI)	84 C2H4N4

Sample file: >P3631 Spectrum #: 682
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	36*	7642093	5699	"BIGDB	38	62	3	0	71	29	14	13

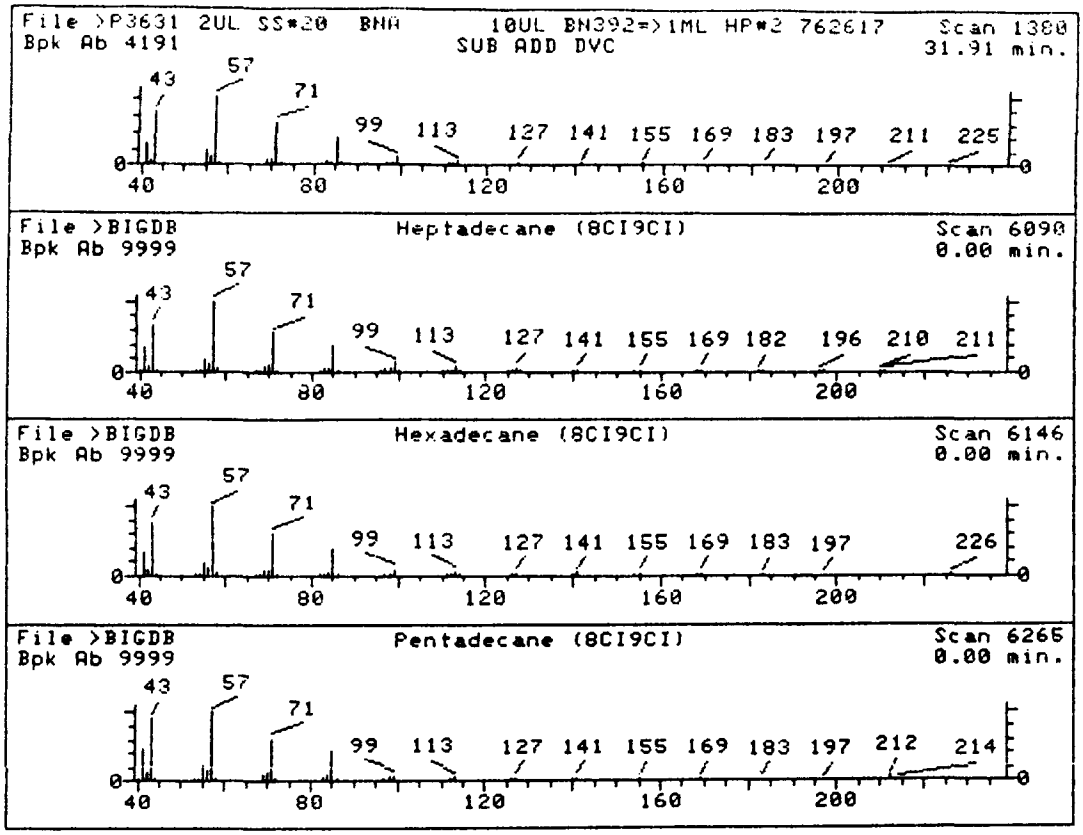


. Unknown #,4
Area = 22582.00 Tentative Concentration is 220.00

1. 1,3,5-Triazine, 2,4,6-triphenyl- (9CI) 309 C21H15N3

Sample file: >P3631 Spectrum #: 1261
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	26*	493776	34277	"BIGDB	24	85	3	0	272	40	10	12

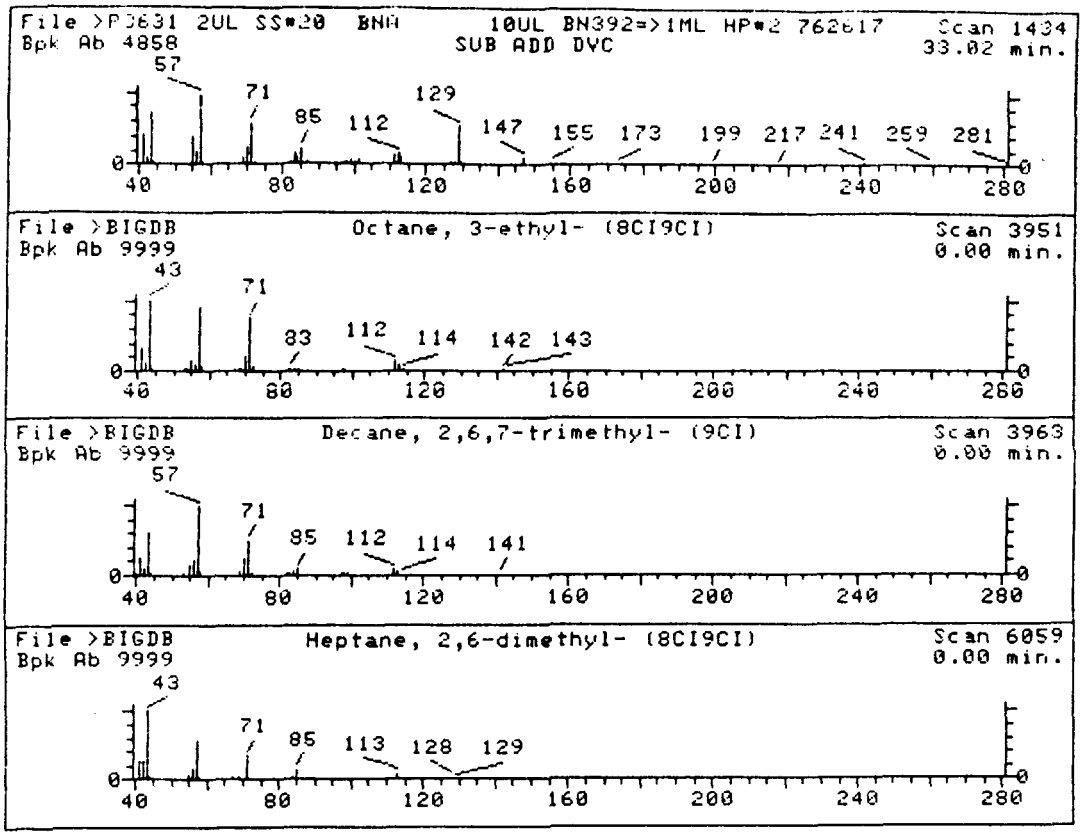


. Unknown #,6
Area = 41003.00 Tentative Concentration is 280.00

1.	Heptadecane (8CI9CI)	240 C17H36
2.	Hexadecane (8CI9CI)	226 C16H34
3.	Pentadecane (8CI9CI)	212 C15H32
4.	Eicosane, 10-methyl- (9CI)	296 C21H44
5.	Decane, 3-methyl- (8CI9CI)	156 C11H24
6.	Hexatriacontane (8CI9CI)	506 C36H74
7.	Tritetracontane (8CI9CI)	604 C43H88

Sample file: >P3631 Spectrum #: 1380
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	83	629787	6090	"BIGDB	85	36	2	0	89	3	57	23
2.	83	544763	6146	"BIGDB	81	39	2	0	97	1	57	22
3.	83	629629	6265	"BIGDB	81	39	2	0	78	2	57	22
4.	83	54833237	6226	"BIGDB	83	50	2	0	84	5	57	23
5.	81*	13151343	13424	"BIGDB	60	34	2	0	100	10	53	44
6.	78	630068	6193	"BIGDB	64	98	2	0	80	5	55	14
7.	78	7098217	6150	"BIGDB	63	105	2	0	76	2	55	13

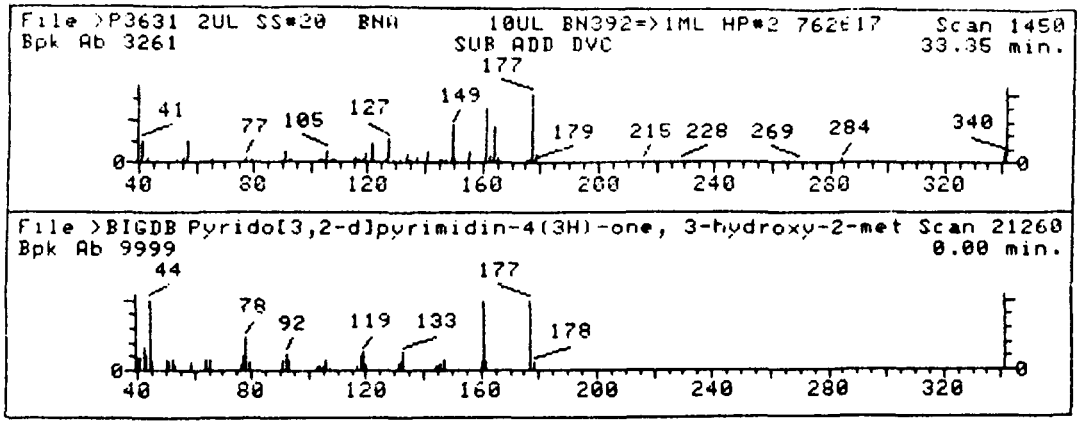


. Unknown #,7
Area = 79320.00 Tentative Concentration is 550.00

1.	Octane, 3-ethyl- (8CI9CI)	142 C10H22
2.	Decane, 2,6,7-trimethyl- (9CI)	184 C13H28
3.	Heptane, 2,6-dimethyl- (8CI9CI)	128 C9H20
4.	Decane, 3,4-dimethyl- (8CI9CI)	170 C12H26
5.	Hexanedioic acid, dioctyl ester (9CI)	370 C22H42O4
6.	Hexadecane, 7-methyl- (8CI9CI)	240 C17H36
7.	Octane, 3,6-dimethyl- (8CI9CI)	142 C10H22

Sample file: >P3631 Spectrum #: 1434
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	43*	5881174	3951	"BIGDB	53	40	0	0	75	53	11	65

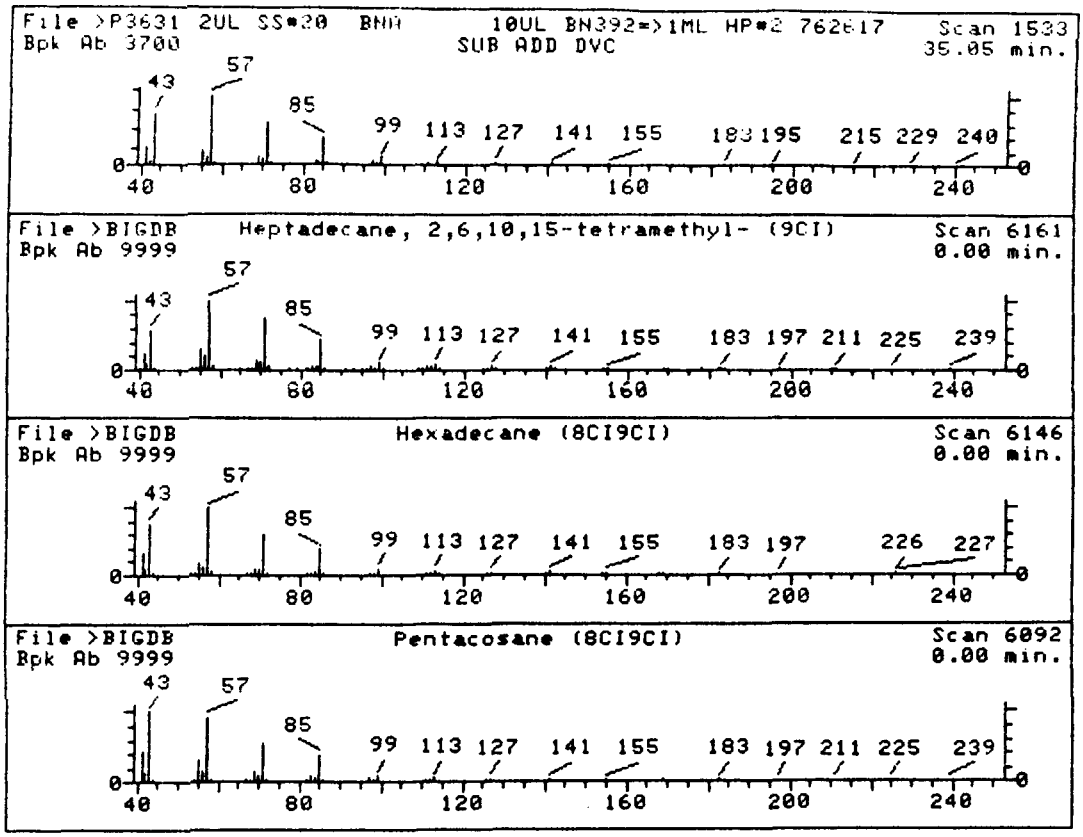


Unknown #,8
Area = 58601.00 Tentative Concentration is 400.00

1. Pyrido[3,2-d]pyrimidin-4(3H)-one, 3-hydroxy-2-methyl 177 C8H7N3O2
- (8CI)

Sample file: >P3631 Spectrum #: 1450
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	25*	3303239	21260	"BIGDB	34	103	3	0	80	43	8	13

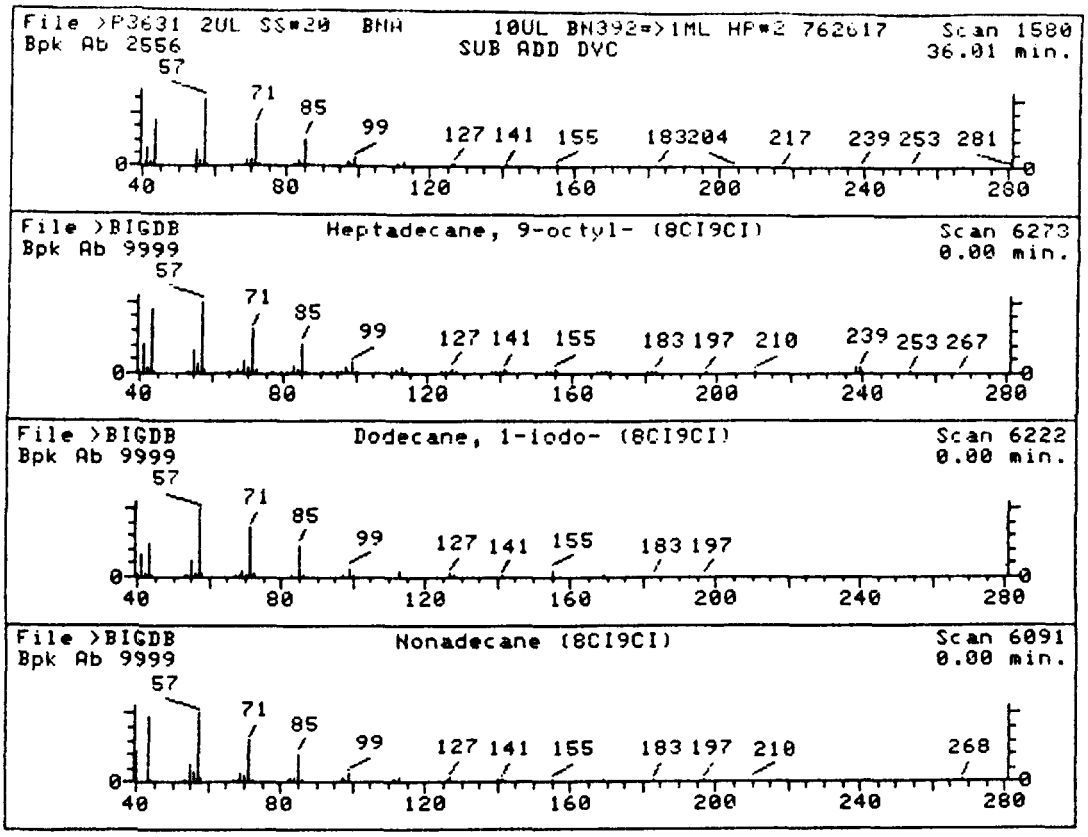


. Unknown #,9
Area = 43626.00 Tentative Concentration is 300.00

1.	Heptadecane, 2,6,10,15-tetramethyl- (9CI)	296 C21H44
2.	Hexadecane (8CI9CI)	226 C16H34
3.	Pentacosane (8CI9CI)	352 C25H52
4.	Heptadecane, 9-octyl- (8CI9CI)	352 C25H52
5.	Nonadecane (8CI9CI)	268 C19H40
6.	Heptadecane (8CI9CI)	240 C17H36
7.	Heptadecane, 9-hexyl- (9CI)	324 C23H48

Sample file: >P3631 Spectrum #: 1533
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	79	54833486	6161	"BIGDB	103	30	2	0	66	8	48	37
2.	76	544763	6146	"BIGDB	81	39	2	0	97	8	45	22
3.	76	629992	6092	"BIGDB	87	53	2	0	75	8	45	25
4.	74	7225641	6273	"BIGDB	106	37	2	0	72	11	39	42
5.	70	629925	6091	"BIGDB	81	53	3	0	78	8	42	14
6.	70	629787	6090	"BIGDB	73	48	2	0	100	6	42	18
7.	70	55124793	25877	"BIGDB	81	64	3	0	75	8	42	14



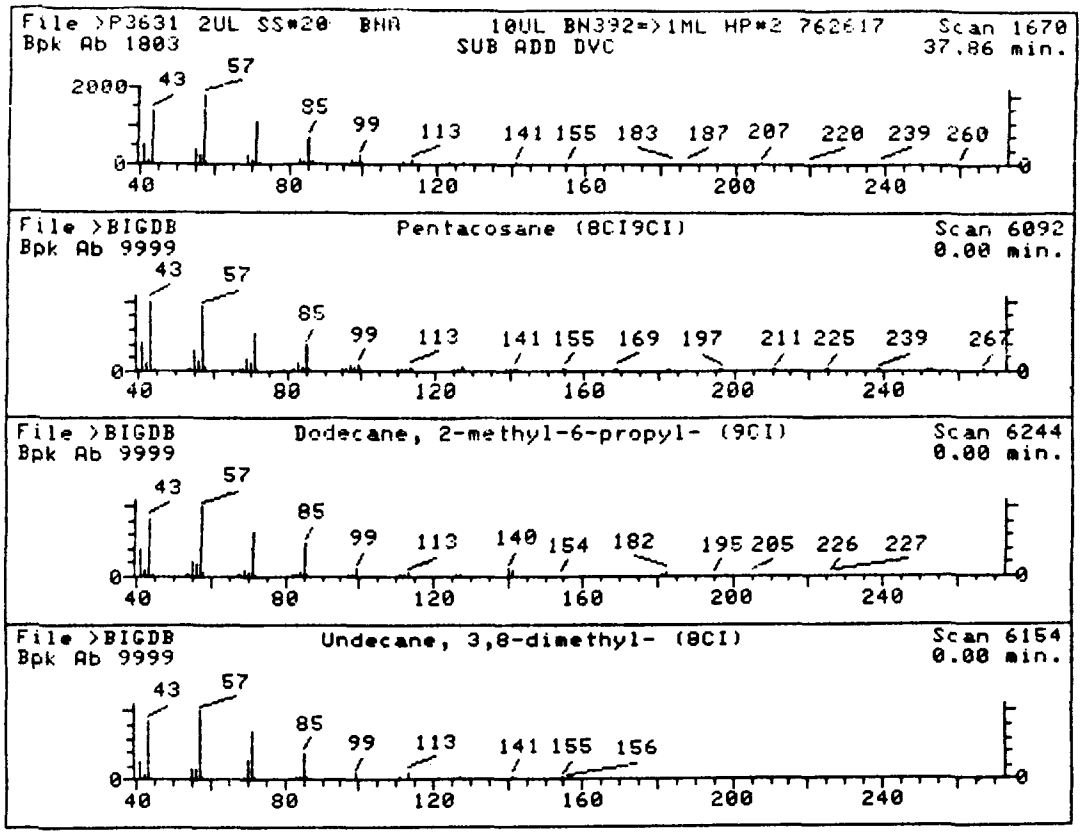
. Unknown #,10
Area = 23596.00 Tentative Concentration is 160.00

1.	Heptadecane, 9-octyl- (8CI9CI)	352 C25H52
2.	Dodecane, 1-iodo- (8CI9CI)	296 C12H25I
3.	Nonadecane (8CI9CI)	268 C19H40
4.	Hexadecane (8CI9CI)	226 C16H34
5.	Eicosane, 9-octyl- (8CI)	394 C28H58
6.	Tridecane, 6-propyl- (9CI)	226 C16H34
7.	Dodecane, 2-methyl-6-propyl- (9CI)	226 C16H34

Sample file: >P3631 Spectrum #: 1580
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	74	7225641	6273	"BIGDB	105	38	2	0	67	11	39	40

6803 0089



. Unknown #,12
Area = 38787.00 Tentative Concentration is 200.00

1.	Pentacosane (8CI9CI)	352 C25H52
2.	Dodecane, 2-methyl-6-propyl- (9CI)	226 C16H34
3.	Undecane, 3,8-dimethyl- (8CI)	184 C13H28
4.	Nonacosane (8CI9CI)	408 C29H60
5.	Heptadecane, 2,6,10,15-tetramethyl- (9CI)	296 C21H44
6.	Pentatriacontane (8CI9CI)	492 C35H72
7.	Heptadecane, 9-octyl- (8CI9CI)	352 C25H52

Sample file: >P3631 Spectrum #: 1670
Search speed: 1 Tilting option: N No. of ion ranges searched: 65

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	66	629992	6092	"BIGDB	105	35	2	0	77	17	31	40

H2M LABORATORY

III. 2. Reporting Package for
I.D.# Surface Soil #19

0104

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME
SHMP1605	RI/FS North Sea Landfill

SAMPLERS: (Signature) S. Hall, J. Angyal

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Bottle B (HNO3)	Bottle F (unpres)	Bottle I	Bottle I(B) HNO3	Bottle K 125 Glass	Bottle K 802 Glass	1 Gallon Plastic Bottle H (NaOH)	REMARKS
SB#17	10/14	12:50pm	✓		SURFACE SOIL #17	1	–	–	–	–	1	–	USE FOR MS/MSD Sample	
SB#20	10/14	2:15pm	✓		SURFACE SOIL #20	3	–	1	–	–	–	1	1	– – Split w/ Weiss
SB#19	10/14	2:30pm	✓		SURFACE SOIL #19	3	–	1	–	–	–	1	1	– –
SB#18	10/14	1:55pm	✓		SURFACE SOIL #18	3	–	1	–	–	–	1	1	– – Split w/ Weiss
SB#16	10/14	11:30am	✓		SURFACE SOIL #16	3	–	1	–	–	–	1	1	– –
SB#15	10/14	11:00am	✓		SURFACE SOIL #15	3	–	1	–	–	–	1	1	– – Split w/ Weiss
SB#14	10/14	10:15am	✓		SURFACE SOIL #14	3	–	1	–	–	–	1	1	– –
SB#13	10/14	10:50am	✓		SURFACE SOIL #13	3	–	1	–	–	–	1	1	– –
SB#12	10/14	9:30am	✓		SURFACE SOIL #12	3	–	1	–	–	–	2	–	– 1 clear / 1 Brown
SB#11	10/14	9:15am	✓		SURFACE SOIL #11	3	–	1	–	–	–	2	–	– 1 clear / 1 Brown
	10/14	8:30am		✓	Field Blank	5	1	–	2	1	–	–	–	– 1 – filled 1st thing
	10/13	1400 HRS	–	✓	Trip Blank	5	1	–	2	1	–	–	–	– 1
	10/13	1930 HRS	–	✓	Field Blank Water	2	–	–	–	–	–	–	–	2 –

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Steven W. Murphy	10/14/87 0700	James Angyal			
J. Angyal	10/14/87				

Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks
J. Angyal	10/14/87		10/14/87 1915	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

2010

HLM LABORATORY

Full CLP & CCC

Town of Southampton
North Sea Land fill
ID# SHMP 8605

Page 1

Continuing Chain of Custody

Samples Received by Jim Padilla date 10/14/87 time 1815 HRS.

Signature Jim Padilla

No. of bottles received	client sample ID's	type	HLM lab no. x·BN x·AE x·PH
1	surface soil #20	amber glass 40z 1	762617
1	surface soil #19	" "	762618
1	surface soil #18	" "	762619
1	surface soil #16	" "	762620
1	surface soil #15	" "	762621
1	surface soil #14	" "	762622
1	surface soil #13	" "	762623
1	surface soil #12	" "	762624
1	surface soil #11	" "	762625
2	Field Blank	2 I	762653
2	Trip Blank	2 I	762654

Sample Relinquished by	Sample Received by	Date	Time	Bottle Type	Reason
Jim Padilla	J.H. Barthman	10/15/87	1740 HRS	ALL	Storage / Analysis
J.H. Barthman	Mark J. Gardin	10/19/87	0900 HRS	762653 762654	Extraction / concen
Mark J. Gardin	J.H. Barthman	10/19/87	1600 HRS	762653 762654	storage
J.H. Barthman	Glenn K Bartholomew	10/20/87	1500	All vials	Analysis

0103

SAMPLE PREPARATION FOR ORGANIC PRIORITY POLLUTANT EXTRACTABLES

H2M LABS, INC.

Environmental and Industrial Analytical Laboratory
575 Broad Hollow Road, Melville, NY 11747-5076

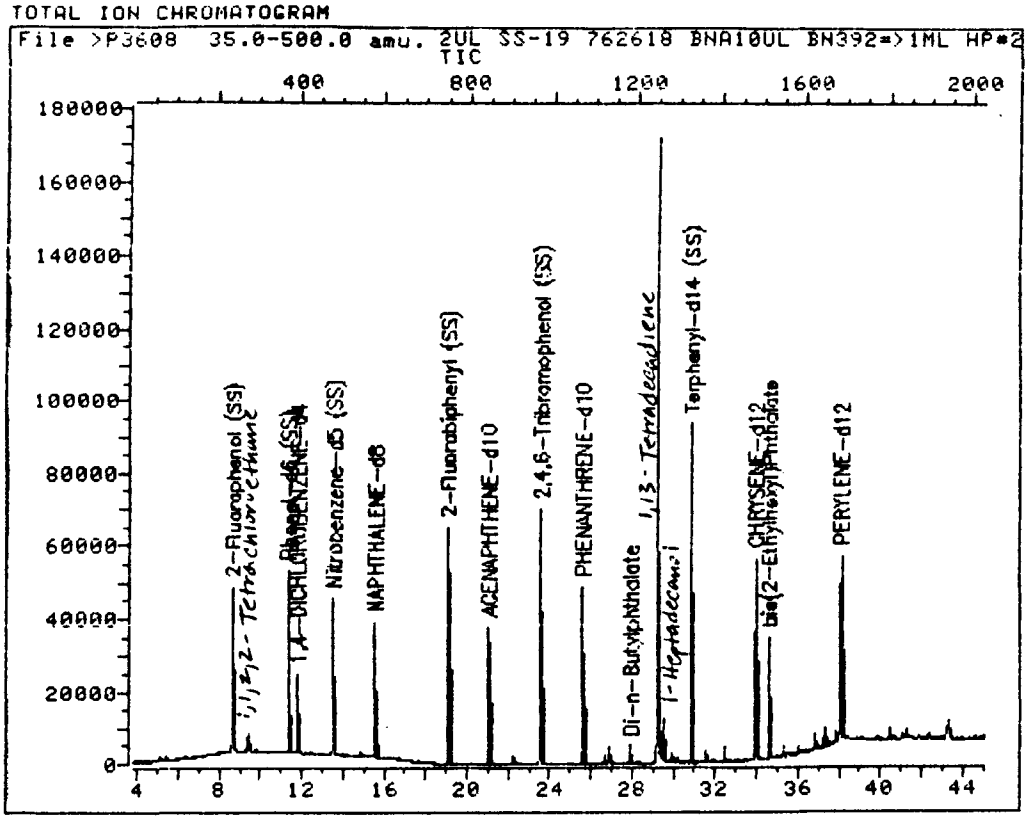
(516) 694-3040

LAB #	762617	762618	762619	762620	762621	762622	762623	762624
LAB # PP								
Client Client Sample #	TSH SS#20	TSH SS#19	TSH SS#18	TSH SS#16	TSH SS#15	TSH SS#14	TSH SS#13	TSH SS#12
SCANS	BNA	BNA	BNA	BNA	BNA	BNA	BNA	BNA
PROTOCOL	CLP	CLP	CLP	CLP	CLP	CLP	CLP	CLP
EXTRACTION DATE	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20
ANALYST	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB
METHOD	SOM	SOM	SOM	SOM	SOM	SOM	SOM	SOM
SAMPLE VOLUME (g)	25.0967	25.0754	25.0019	25.0848	25.0259	25.0690	25.0532	25.0058
SURROGATE NUMBER/VOLUME	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each
MATRIX SPIKE NUMBER/VOLUME								
BN EXTRACT SPLIT	N	N	N	N	N	N	N	N
CONCENTRATED DATE/INITIALS BN/AE	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB
CONCENTRATION VOLUME BN	—	—	—	—	—	—	—	—
CONCENTRATION VOLUME AE	—	—	—	—	—	—	—	—
(SOIL) BNA	5ml	1ml	1ml	5ml	1ml	5ml	5ml	5ml
PP CONCENTRATED DATE/ANALYST								
PP CONCENTRATION VOLUME								
ALUMINA CLEANED								
Bio-Bead Cleaned	BB			BB		BB	BB	
REMARKS								

Semi-Volatile BNA

Analyst	date	direct inj.	RUN #	GC/MS #	Sample # / Lab # / Client	µl	Comments	Extracted standard µl	Sol. #	Sol. Vol.	Storage INFO. Tape	CRN.	TRACK	QUANT.	Reported Date
GKS	10/26	MS	3582		872252 Acid	2		10	BN 480	1.0			B1		
			3583		872182 BNA										
			3584		872218 BNA										
GKB	10/27	MS	DF 144		MS 44	2							B1		
			3585		10 µg/ml HSL			10	BN 592	1.0			B1		
			3586		25 µg/ml HSL										
			3587		40 µg/ml HSL										
			3588		60 µg/ml HSL										
			3589		80 µg/ml HSL										
GKB	10/28	MS	DF 145		MS 44	2							B1		
			3590		Method Blank 205			10	BN 592	1.0			B2		
			3591		SB #1		762460								
			3592		SB #2		762461								
			3593		SB #3		762462								
			3594		SB #4		762463								
			3595		SB #5		762464								
			3596		SB #6		762465								
			3597		SB #8		762467								
			3598		SB #10		762469								
			3599		Field Blank		762491								
			3600		Trip Blank		762497								
			3590 3602		25 µg/ml HSL Std										
GKB	10/29	MS	3602	DF 146	2 µl MS 44	2							B1		
			3603	3602	25 µg/ml HSL Std			10	BN 592	1.0			B2		
			3604	3603	SB #9		762456								
				3604	SB #9 MS		762456								
				3605	SB #9 MSD		762456								
				3606	SB #7		762466								
				3607	Method Blank 207										
				3608	SS-19		762618								

TOTAL ION CHROMATOGRAM



Data File: >P3608::B2 Quant Output File: ^P3608::QT
Name: 2UL SS-19 762618 BNA
Misc: 10UL BN392=>1ML HP#2 BTL#65

Id File: !IDXPP::ME
Title: PRIORITY POLLUTANTS
Last Calibration: 871029 22:38

Operator ID: GLENN
Quant Time: 871030 04:05
Injected at: 871030 03:18

QUANT REPORT

Operator ID: GLENN
Output File: ^P3608::QT
Data File: >P3608::B2
Name: 2UL SS-19 762618 BNA
Misc: 10UL BN392=>1ML HP#2

Quant Rev: 6 Quant Time: 871030 04:05
Injected at: 871030 03:18
Dilution Factor: 1.00000

BTL#65

ID File: !IDXPP::ME
Title: PRIORITY POLLUTANTS
Last Calibration: 871029 22:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	11.81	395	7863	40.00	ug/mL	92
3)	2-Fluorophenol (SS)	8.61	238	26144	122.80	ug/mL	69
6)	Phenol-d6 (SS)	11.34	372	42657	138.24	ug/mL	96
14)	*NAPHTHALENE-d8	15.57	580	29708	40.00	ug/mL	58
15)	Nitrobenzene-d5 (SS)	13.54	480	33069	78.45	ug/mL	84
26)	*ACENAPHTHENE-d10	21.03	848	20930	40.00	ug/mL	92
30)	2-Fluorobiphenyl (SS)	19.08	752	53625	95.78	ug/mL	97
41)	2,4,6-Tribromophenol (SS)	23.56	972	19772	96.75	ug/mL	85
42)	*PHENANTHRENE-d10	25.59	1072	46354	40.00	ug/mL	63
50)	Di-n-Butylphthalate	27.94	1187	6774	3.59	ug/mL	85
52)	*CHRYSENE-d12	33.93	1481	59192	40.00	ug/mL	55
53)	Terphenyl-d14 (SS)	30.83	1329	99924	72.27	ug/mL	40
59)	bis(2-Ethylhexyl)Phthalate	34.58	1513	22738	13.84	ug/mL	89
61)	*PERYLENE-d12	38.09	1685	58504	40.00	ug/mL	77

* Compound is ISTD

0107

1. 24* 473132 24842 "BIGDB 57 107 3 0 80 52 7 22

MS data file header from : >P3608

Sample: 2UL SS-19 762618 BNA Operator: GLENN MS 10/30/87 3:18
Misc : 10UL BN392=>1ML HP#2 BTL#65
Sys. #: 2 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: EXTBNA Tuning file: MT8002 No. of extra records: 2
Source temp.: 0 Analyzer temp.: 280 Transfer line temp. : 0

Chromatographic temperatures : 30. 300. 0. 0. 0.
Chromatographic times, min. : 4.0 7.3 0.0 0.0 0.0
Chromatographic rate, deg/min: 8.0 0.0 0.0 .5 0.0

>P3608 2UL SS-19 762618 BNA10UL BN392=>1ML HP#2
35.01 500.0 CLP ADC TIC
Upslope: .20 Area Reject: 5371. Max Peaks: 16 Bunching: 1
Dnslope: 0.00 Results File IP3608 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	9.40	275	277	279	4868	29090	11701	1.60	1.277
~~2~~	26.84	1131	1133	1141	4550	13330	12279	1.68	1.340
~~3~~	29.08	1240	1243	1244	4245	11944	10941	1.50	1.194
4	29.18	1244	1248	1258	171561	736967	730795	100.00	79.761
5	29.44	1258	1261	1267	11624	39378	33627	4.60	3.670
~~6~~	29.89	1280	1283	1285	2259	8841	6910	.95	.754
~~7~~	31.54	1361	1364	1366	2827	11094	8404	1.15	.917
~~8~~	32.42	1404	1407	1412	3793	15827	10857	1.49	1.185
~~9~~	35.25	1544	1546	1550	2513	20222	6473	.89	.706
~~10~~	36.80	1620	1622	1624	4403	26612	9737	1.33	1.063
~~11~~	37.27	1642	1645	1648	5792	43309	12493	1.71	1.364
~~12~~	37.82	1670	1672	1676	2965	52248	10548	1.44	1.151
~~13~~	40.40	1796	1798	1800	3352	42903	10433	1.43	1.139
~~14~~	41.26	1836	1840	1846	2401	94401	12202	1.67	1.332
~~15~~	43.20	1931	1935	1936	2700	53313	11650	1.59	1.272
~~16~~	43.28	1937	1939	1943	4954	67301	17178	2.35	1.875

Sum of corrected areas: 916228.

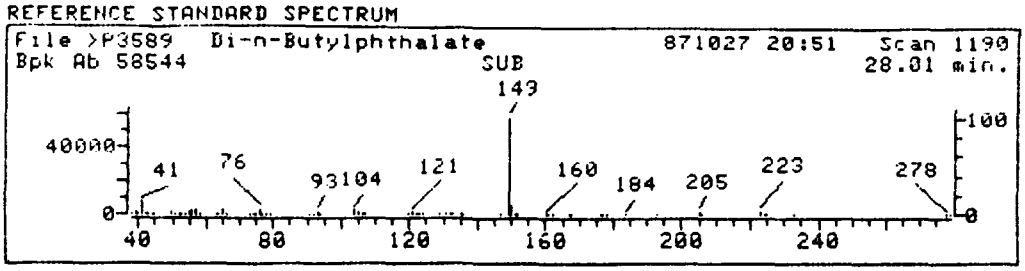
Summary of Unknowns PBM Library Search and Quantitation

Standard	Concentration	Area	Retention Time	Unknown Window
1	40.0	53705.	11.81	3.78 - 13.69
2	40.0	70915.	15.57	13.69 - 18.30
3	40.0	101177.	21.03	18.30 - 23.31
4	40.0	129218.	25.60	23.31 - 29.76
5	40.0	179700.	33.93	29.76 - 36.01
6	40.0	189527.	38.09	36.01 - 45.04

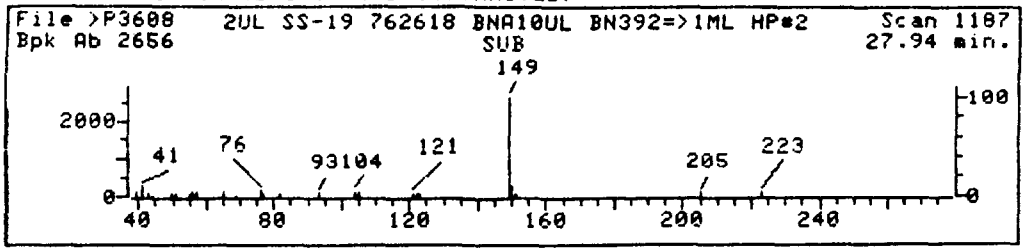
Dilution Factor (DF) = 1.00 Fractional Solids (FS) = 1.00
Amount Method (AM) = 0.00 Amount Used (AU) = 0.00

Correction Factor = ******** = (AM / AU) / (DF * FS)

REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



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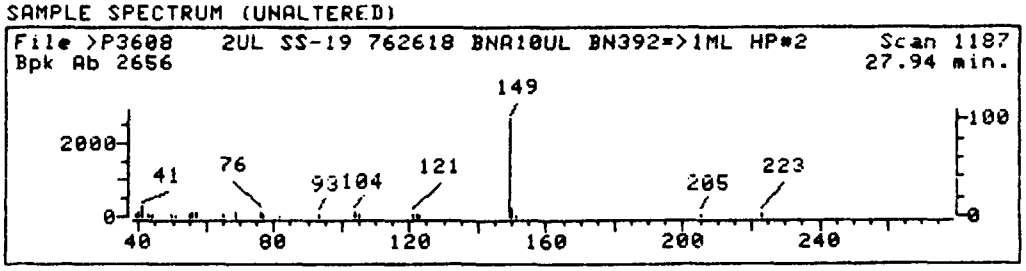
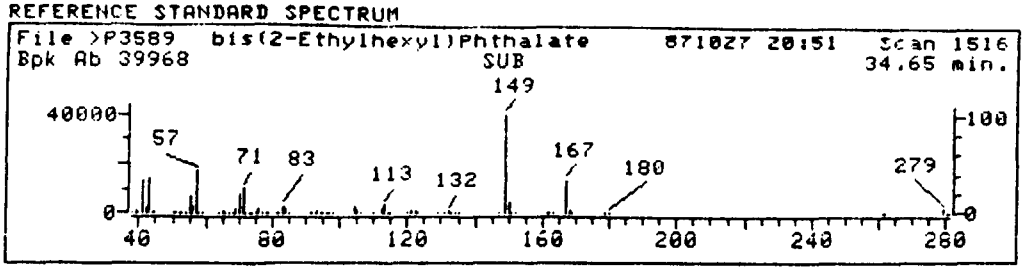


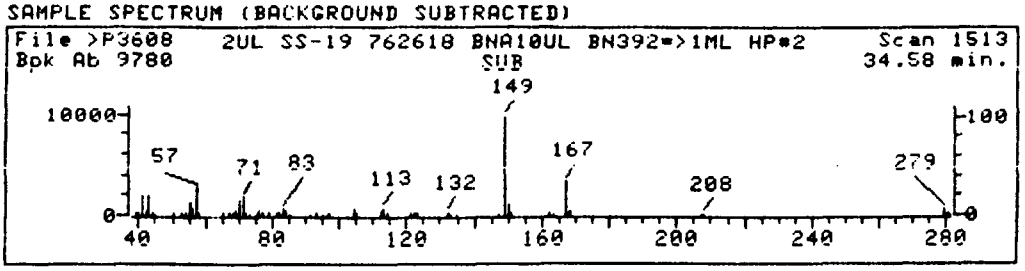
Data File: >P3608::B2 Quant Output File: ^P3608::QT
Name: 2UL SS-19 762618 BNA
Misc: 10UL BN392=>1ML HP#2 BTL#65
Quant Time: 871030 04:05 Quant ID File: !IDXPP::ME
Injected at: 871030 03:18 Last Calibration: 871029 22:38

Compound No: 50
Compound Name: Di-n-Butylphthalate
Scan Number: 1187
Retention Time: 27.94 min.
Quant Ion: 149.0
Area: 6774
Concentration: 3.59 ug/mL
q-value: 85

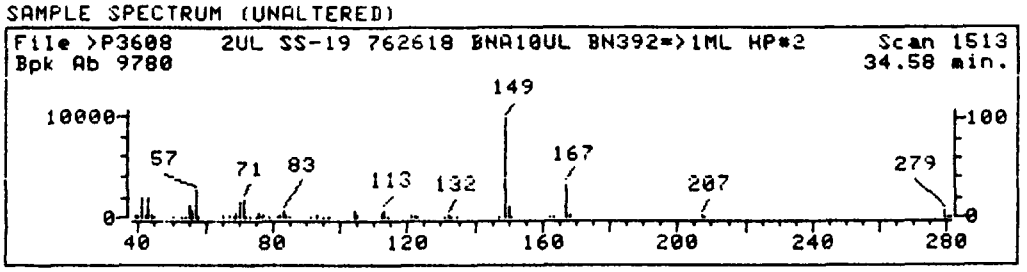
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

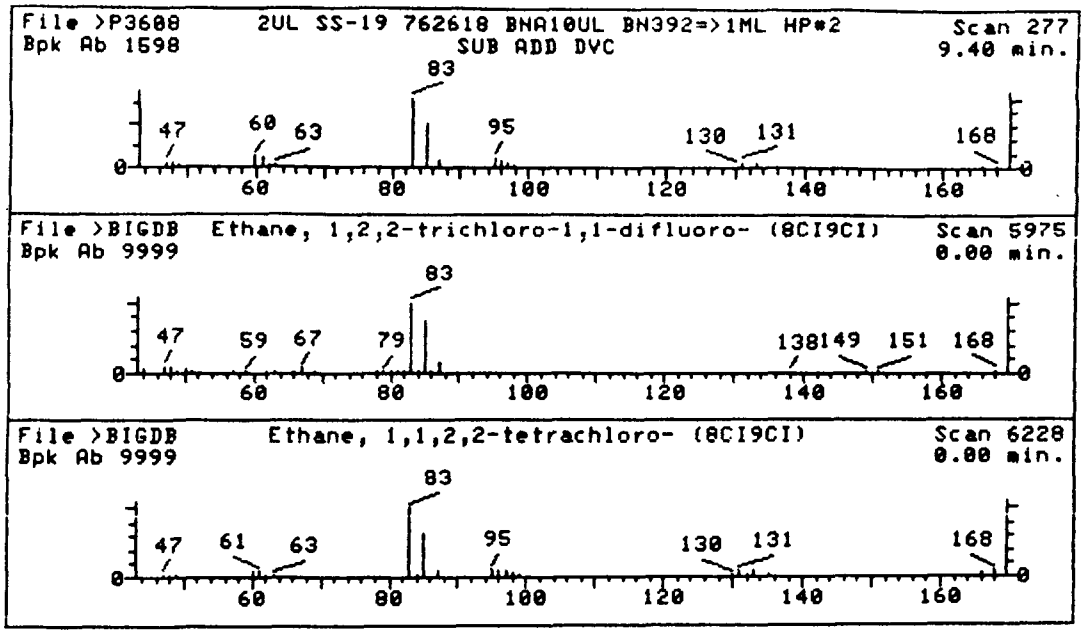


SAMPLE SPECTRUM (UNALTERED)



Data File: >P3608::B2 Quant Output File: ^P3608::QT
Name: 2UL SS-19 762618 BNA
Misc: 10UL BN392=>1ML HP#2 BTL#65
Quant Time: 871030 04:05 Quant ID File: !IDXPP::ME
Injected at: 871030 03:18 Last Calibration: 871029 22:38

Compound No: 59
Compound Name: bis(2-Ethylhexyl)Phthalate
Scan Number: 1513
Retention Time: 34.58 min.
Quant Ion: 149.0
Area: 22738
Concentration: 13.84 ug/mL
q-value: 89

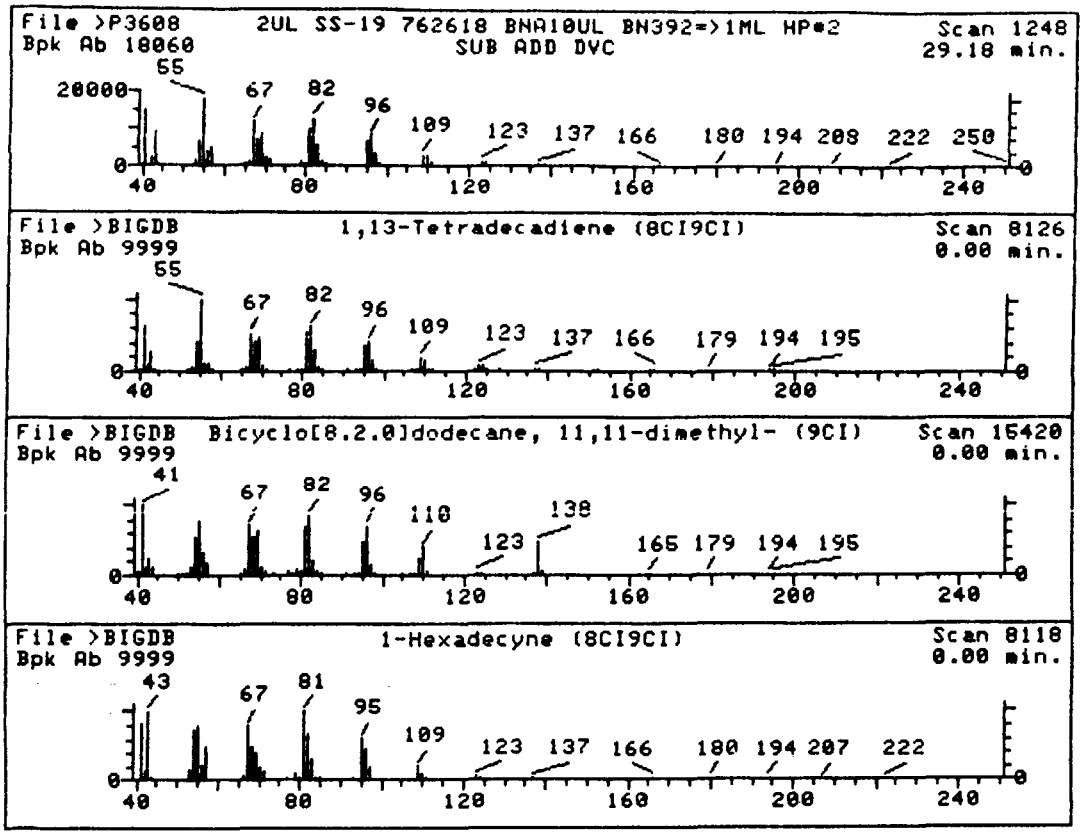


. Unknown #,1
Area = 11701.00 Tentative Concentration is 9.00

1. Ethane, 1,2,2-trichloro-1,1-difluoro- (8CI9CI) 168 C2HCl3F2
2. Ethane, 1,1,2,2-tetrachloro- (8CI9CI) 166 C2H2Cl4

Sample file: >P3608 Spectrum #: 277
Search speed: 1 Tilting option: N No. of ion ranges searched: 52

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	71*	354212	5975	"BIGDB	59	43	2	0	66	14	38	36

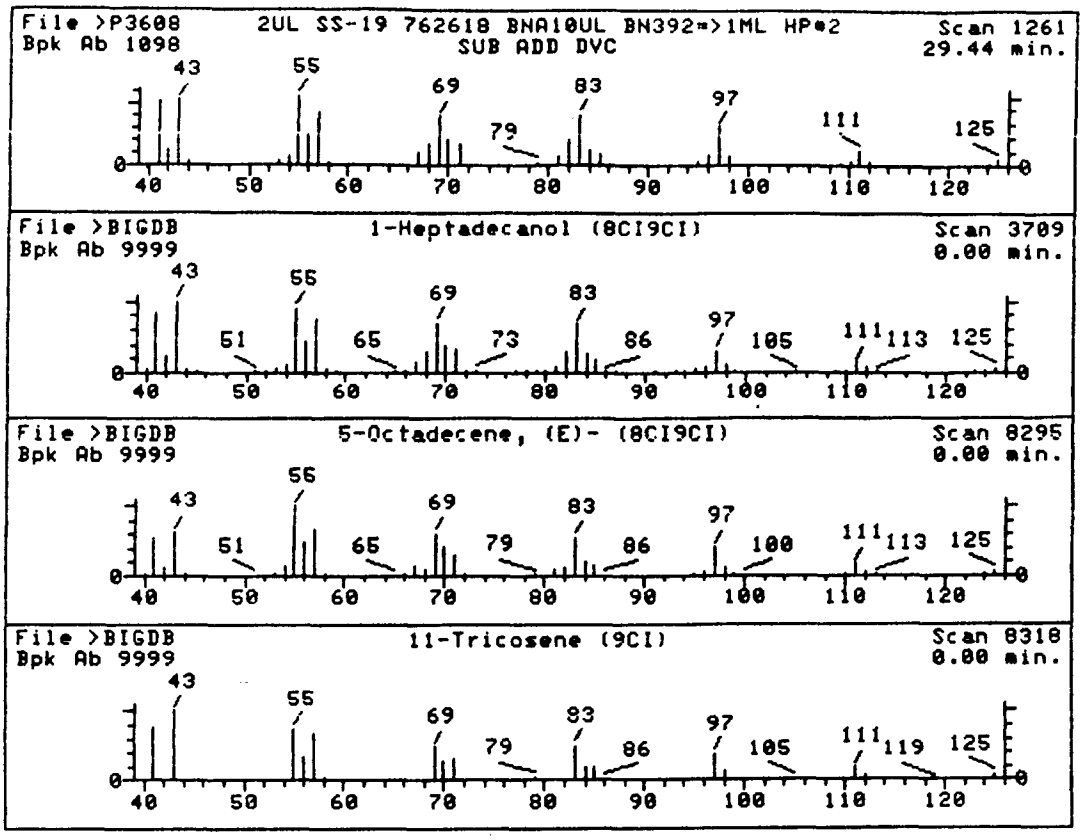


. Unknown #,4
Area = 730795.0 Tentative Concentration is 230.00

1.	1,13-Tetradecadiene (8CI9CI)	194 C14H26
2.	Bicyclo[8.2.0]dodecane, 11,11-dimethyl- (9CI)	194 C14H26
3.	1-Hexadecyne (8CI9CI)	222 C16H30
4.	1,14-Tetradecanediol (8CI9CI)	230 C14H30O2
5.	9-Octadecyne (9CI)	250 C18H34
6.	Cyclododecanol (8CI9CI)	184 C12H24O
7.	1,12-Dodecanediol (8CI9CI)	202 C12H26O2

Sample file: >P3608 Spectrum #: 1248
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	86	21964498	8126	"BIGDB	117	11	1	0	92	6	59	73
2.	79*	62338298	15420	"BIGDB	90	53	2	0	65	13	43	69
3.	70*	629743	8118	"BIGDB	92	54	3	0	80	20	32	67



. Unknown #,5
Area = 33627.00 Tentative Concentration is 10.00

1.	1-Heptadecanol (8CI9CI)	256 C17H36O
2.	5-Octadecene, (E)- (8CI9CI)	252 C18H36
3.	11-Tricosene (9CI)	322 C23H46
4.	9-Octadecene, (E)- (8CI9CI)	252 C18H36
5.	Cyclopentane, 1-ethyl-3-methyl- (8CI)	112 C8H16
6.	1-Tetracosanol (8CI9CI)	354 C24H50O
7.	2-Heptenal, (E)- (8CI9CI)	112 C7H12O

Sample file: >P3608 Spectrum #: 1261
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	74	1454859	3709	"BIGDB	110	45	2	0	83	15	39	49
2.	71	7206215	8295	"BIGDB	101	44	2	0	87	15	38	35

H2M LABORATORY

III. 2. Reporting Package for
I.D.# Surface Soil #18

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME
SHMPROJ	RI/FS North Sea Landfill

SAMPLERS: (Signature) J. Angyal

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Bottle B (HNO3)	Bottle E (unpres)	Bottle I	Bottle I (B) H2SO4	Bottle K 1/2 gl Glass	Bottle K 8oz Glass	1 Gallon Jug Bottle H Plastic (NITRIC)	REMARKS
SS#17	10/14	12:45pm	✓		SURFACE SOIL #17	1	–	–	–	–	1	–	USE FOR MS/MSD Sample	
SS#20	10/14	2:15pm	✓		SURFACE SOIL #20	3	–	1	–	–	–	1	1	– Split w/ Vivian
SS#19	10/14	2:30pm	✓		SURFACE SOIL #19	3	–	1	–	–	–	1	1	– –
SS#18	10/14	1:35pm	✓		SURFACE SOIL #18	3	–	1	–	–	–	1	1	– Split w/ Vivian
SS#16	10/14	12:30pm	✓		SURFACE SOIL #16	3	–	1	–	–	–	1	1	– –
SS#15	10/14	11:8m	✓		SURFACE SOIL #15	3	–	1	–	–	–	1	1	– Split w/ Vivian
SS#14	10/14	10:42am	✓		SURFACE SOIL #14	3	–	1	–	–	–	1	1	– –
SS#13	10/14	10:05am	✓		SURFACE SOIL #13	3	–	1	–	–	–	1	1	– –
SS#12	10/14	9:30am	✓		SURFACE SOIL #12	3	–	1	–	–	–	2		– 1 clear / 1 Brown
SS#11	10/14	9:15am	✓		SURFACE SOIL #11	3	–	1	–	–	–	2		– 1 clear / 1 Brown
	10/14	8:30am		✓	Field Blank	5	1	–	2	1	–	–	–	– 1 – filled 1st thing
	10/13	1400 hrs	–	✓	Trip Blank	5	1	–	2	1	–	–	–	– 1
	10/13	1430 hrs	–	✓	Field Blank Water	2	–	–	–	–	–	–	2	–

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Steven W. Murrell	10/14/87 0700	James Angyal			
J. Angyal	10/14/87				

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Remarks
J. Angyal	10/14/87	J. Angyal	

Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks
J. Angyal	10/14/87	J. Angyal	10/14/87 1815 HR.	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

STO

H2M LABORATORY

Full CLP + COC

Town of Southampton
North Sea Land fill
ID# SHMP 8605

Continuing Chain of Custody

Samples Received by Jim Padilla date 10/14/87 time 1815 HRS.

Signature Jim Padilla

No. of bottles received		client sample ID#	type	H2M lab no. x·BN x·AE x·PH
1	surface soil #20	amber glass 40z	1	762617
1	surface soil #19	"	"	762618
1	surface soil #18	"	"	762619
1	surface soil #16	"	"	762620
1	surface soil #15	"	"	762621
1	surface soil #14	"	"	762622
1	surface soil #13	"	"	762623
1	surface soil #12	"	"	762624
1	surface soil #11	"	"	762625
2	Field Blank	2 I		762653
2	Trip Blank	2 I		762654

Sample Relinquished by	Sample Received by	Date	Time	Bottle Type	Reason
				ALL	Storage / Analysis
		10/19/87	0900 MS	762653 762654	Extraction concen
		10/19/87	1600 MS	762653 762654	storage
		10/20/87	1500	All vials	Analysis

SAMPLE PREPARATION FOR ORGANIC PRIORITY POLLUTANT EXTRACTABLES

H2M LABS, INC.

Environmental and Industrial Analytical Laboratory
575 Broad Hollow Road, Melville, NY 11747-5076

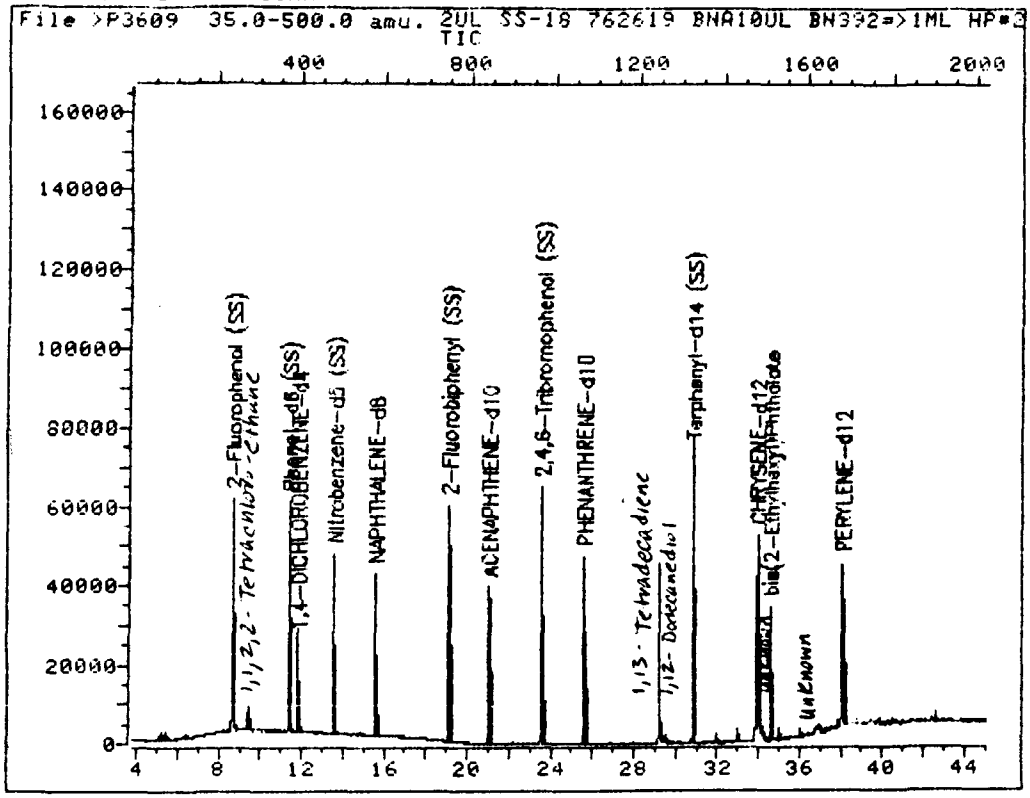
(516) 694-3040

LAB #	762617	762618	762619	762620	762621	762622	762623	762624
LAB # PP								
Client Client Sample #	TSH SS#20	TSH SS#19	TSH SS#18	TSH SS#16	TSH SS#15	TSH SS#14	TSH SS#13	TSH SS#12
SCANS	BNA	BNA	BNA	BNA	BNA	BNA	BNA	BNA
PROTOCOL	CLP	CLP	CLP	CLP	CLP	CLP	CLP	CLP
EXTRACTION DATE	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20
ANALYST	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB
METHOD	SOM	SOM	SOM	SOM	SOM	SOM	SOM	SOM
SAMPLE VOLUME (g)	25.0967	25.0754	25.0019	25.0848	25.0259	25.0690	25.0532	25.0058
SURROGATE NUMBER/VOLUME	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each
MATRIX SPIKE NUMBER/VOLUME								
BN EXTRACT SPLIT	N	N	N	N	N	N	N	N
CONCENTRATED DATE/INITIALS BN/AE	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB
CONCENTRATION VOLUME BN	—	—	—	—	—	—	—	—
CONCENTRATION VOLUME AE	—	—	—	—	—	—	—	—
(SOIL) BBA	5ml	1ml	1ml	5ml	1ml	5ml	5ml	5ml
PP CONCENTRATED DATE/ANALYST								
PP CONCENTRATION VOLUME								
ALUMINA CLEANED								
Bio-Bead Cleaned	BB			BB		BB	BB	BB
REMARKS								

Semi-Volatile BNA

Ai	date	direct Inj.	RUN #	GPC Sol. #	Client #	Sample # / Lab #	Comments	Autosampler standard: #	Sol. #	Sol. Vol.	Storage Info.: Tape	C.R.N.	Track	QUANT.	Reported Date
GKB	10/29	MS	3609		2	SS-18	762619	10	BN 3521	1.0			B2		
			3610			SS-15	762621								
			3611			MW-5A	762952								
			3612			MW-5B	762955								
			3613			762911									
			3614			763340									
			3615			763341									
			3616			763343									
			3617			030/30	761657								
			3618			West Stockpile									
GKB	10/30	MS	DF 147		2	MS 44							B1		
			3619	3620		~~Method Blank 208~~	These are OK GKB	10	BN 3521	1.0			B1		
			~~3620~~	3621		~~MW6~~	~~762955~~								
			3621	3622		~~MW6 MS~~	~~762955~~								
			3622	3623		~~MW6 MSD~~	762955								
			3623	3624		~~MW2~~	762957								
			3624	3625		~~Field~~ Blank									
			3625	3626		Trip Blank									
			3626	3619		25 mg/ml HSL Std									
GKB	11/2	MS	DF 147		2	MS 44							B1		
GKB	11/3	MS	DF 149 3627		2	MS 44	50 mg DFTPP						B1		
GKB	11/6	MS	3627			25 mg/ml HSL Std		10	BN 3521	1.0			B2		
			3628			Method Blank 206									
			3629			Field Blank	762653								
			3630			Trip Blank	762654								
			3631			SS #20	762617								
			3632			SS #16	762620								
			3633			SS #14	762622								
			3634			SS #13	762623								
			3635			SS #12	762624								

TOTAL ION CHROMATOGRAM



Data File: >P3609::B2
Name: 2UL SS-18 762619 BNA
Misc: 10UL BN392=>1ML HP#2

Quant Output File: ^P3609::QT

BTL#66

Id File: !IDXPP::ME
Title: PRIORITY POLLUTANTS
Last Calibration: 871029 22:38

Operator ID: GLENN
Quant Time: 871030 05:00
Injected at: 871030 04:13

QUANT REPORT

Operator ID: GLENN
Output File: ^P3609::QT
Data File: >P3609::B2
Name: 2UL SS-18 762619 BNA
Misc: 10UL BN392=>1ML HP#2

Quant Rev: 6 Quant Time: 871030 05:00
Injected at: 871030 04:13
Dilution Factor: 1.00000

BTL#66

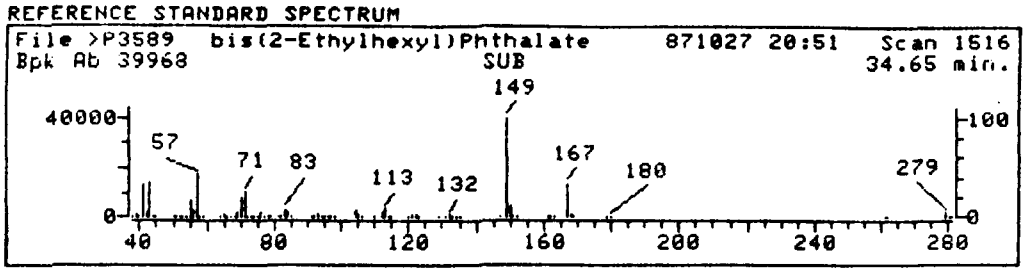
ID File: !IDXPP::ME
Title: PRIORITY POLLUTANTS
Last Calibration: 871029 22:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	11.81	395	9803	40.00	ug/mL	90
3)	2-Fluorophenol (SS)	8.63	239	35931	135.37	ug/mL	57
6)	Phenol-d6 (SS)	11.36	373	56228	146.16	ug/mL	89
14)	*NAPHTHALENE-d8	15.57	580	33427	40.00	ug/mL	58
15)	Nitrobenzene-d5 (SS)	13.54	480	33634	70.91	ug/mL	84
26)	*ACENAPHTHENE-d10	21.03	848	22561	40.00	ug/mL	91
30)	2-Fluorobiphenyl (SS)	19.08	752	49018	81.22	ug/mL	99
41)	2,4,6-Tribromophenol (SS)	23.56	972	17406	79.02	ug/mL	87
42)	*PHENANTHRENE-d10	25.59	1072	44002	40.00	ug/mL	63
52)	*CHRYSENE-d12	33.93	1481	48615	40.00	ug/mL	57
53)	Terphenyl-d14 (SS)	30.81	1328	87015	76.62	ug/mL	40
59)	bis(2-Ethylhexyl)Phthalate	34.58	1513	23164	17.16	ug/mL	91
61)	*PERYLENE-d12	38.07	1684	45999	40.00	ug/mL	78

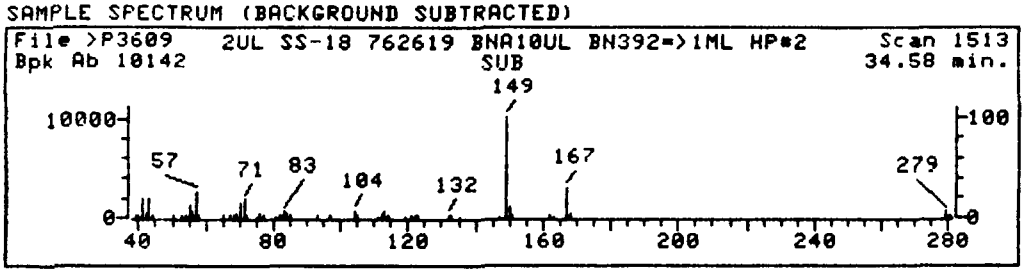
* Compound is ISTD

0510

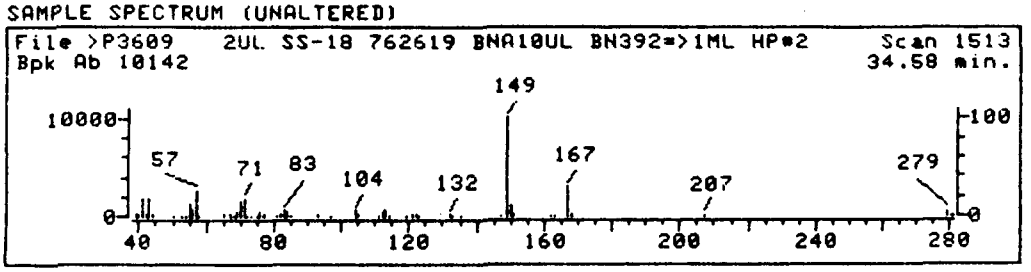
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >P3609::B2 Quant Output File: ^P3609::QT
Name: 2UL SS-18 762619 BNA
Misc: 10UL BN392=>1ML HP#2 BTL#66
Quant Time: 871030 05:00 Quant ID File: !IDXPP::ME
Injected at: 871030 04:13 Last Calibration: 871029 22:38

Compound No: 59
Compound Name: bis(2-Ethylhexyl)Phthalate
Scan Number: 1513
Retention Time: 34.58 min.
Quant Ion: 149.0
Area: 23164
Concentration: 17.16 ug/mL
q-value: 91

MS data file header from : >P3609

Sample: 2UL SS-18 762619 BNA Operator: GLENN MS 10/30/87 4:13
Misc : 10UL BN392=>1ML HP#2 BTL#66
Sys. #: 2 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: EXTBNA Tuning file: MT8002 No. of extra records: 2
Source temp.: 0 Analyzer temp.: 280 Transfer line temp. : 0

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	4.0	7.3	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	.5	0.0

>P3609 2UL SS-18 762619 BNA10UL BN392=>1ML HP#2
35.01 500.0 CLP ADC TIC
Upslope: .20 Area Reject: 6628. Max Peaks: 6 Bunching: 1
Dnslope: 0.00 Results File IP3609 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	9.40	274	277	279	5953	35008	13488	11.83	6.732
2	29.16	1244	1247	1249	45431	115421	114031	100.00	56.918
3	29.22	1249	1250	1258	10054	31097	27729	24.32	13.841
4	34.21	1490	1495	1503	2236	31014	21821	19.14	10.892
5	36.70	1611	1617	1620	2060	35525	15638	13.71	7.806
6	42.56	1901	1904	1908	2330	53979	7636	6.70	3.811

Sum of corrected areas: 200343.

Summary of Unknowns PBM Library Search and Quantitation

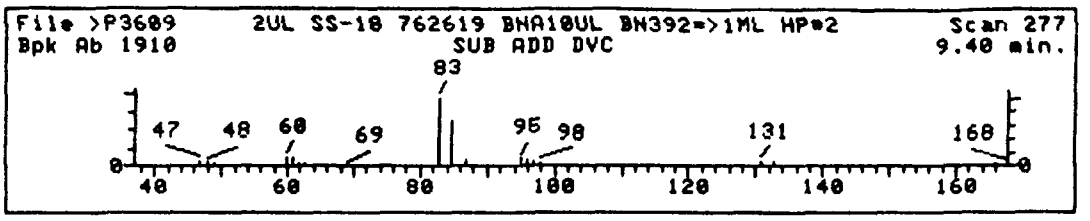
Standard	Concentration	Area	Retention Time	Unknown Window
1	40.0	66282.	11.81	3.78 - 13.69
2	40.0	80613.	15.57	13.69 - 18.30
3	40.0	108509.	21.03	18.30 - 23.31
4	40.0	124377.	25.59	23.31 - 29.76
5	40.0	196030.	33.93	29.76 - 36.00
6	40.0	148884.	38.07	36.00 - 45.03

Dilution Factor (DF) = 1.00 Fractional Solids (FS) = 1.00
Amount Method (AM) = 0.00 Amount Used (AU) = 0.00

Correction Factor = ******** = (AM / AU) / (DF * FS)

$$\text{Unknown Concentration} = \frac{\text{Conc Int Std}}{\text{Area Int Std}} * \text{Area Unk} * \text{Correction Factor}$$

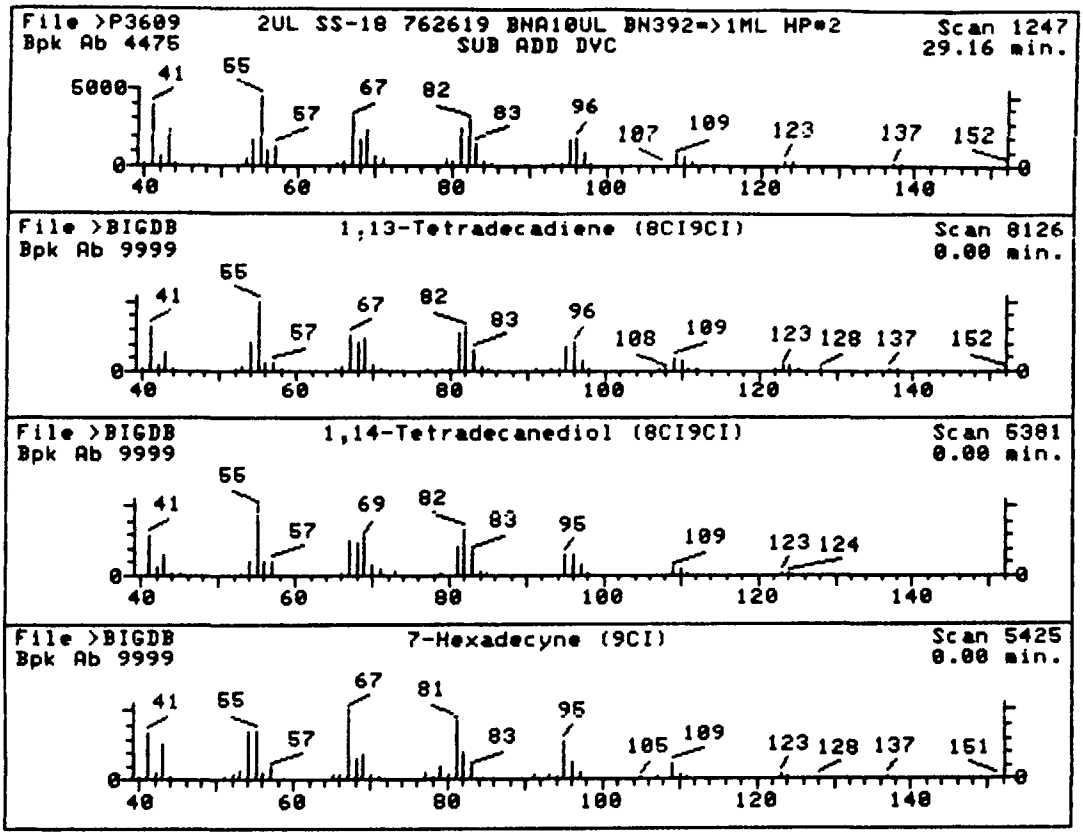
12:38 PM FRI., 30 OCT., 1987



. Unknown #,1
Area = 13488.00 Tentative Concentration is 8.00

Sample file: >P3609 Spectrum #: 277

No data base entries were retrieved.



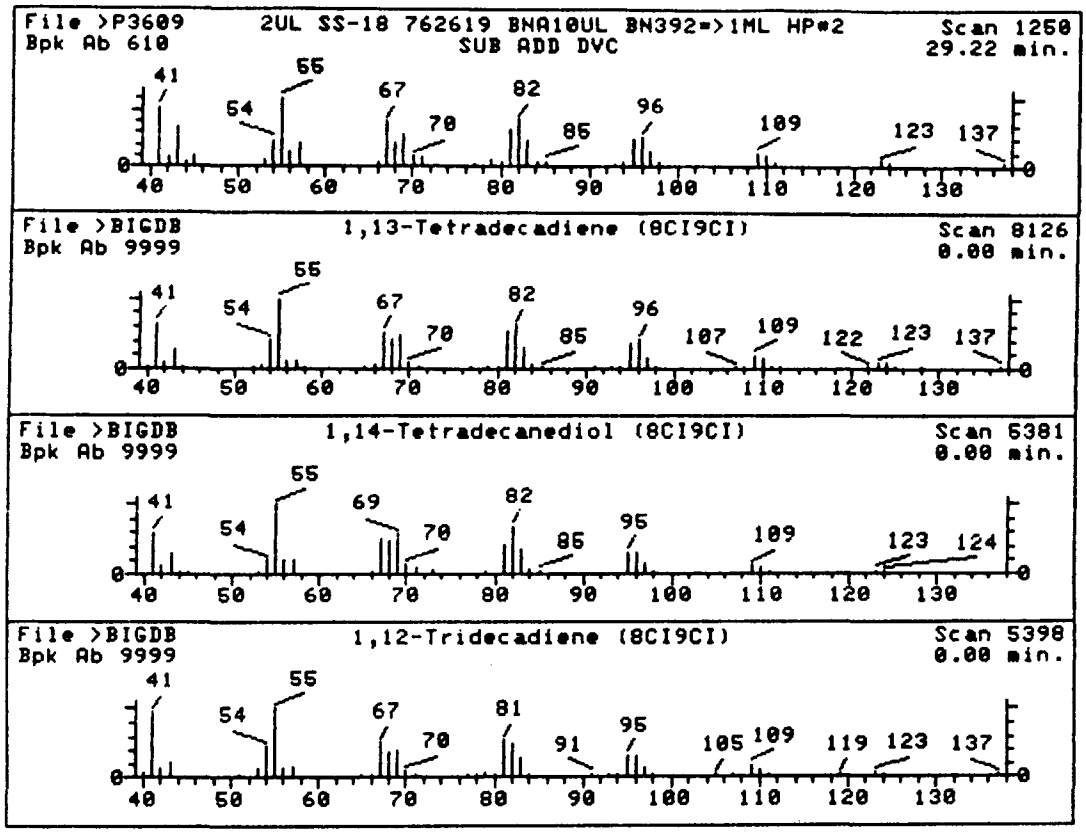
. Unknown #,2
Area = 114031.0 Tentative Concentration is 37.00

1.	1,13-Tetradecadiene (8CI9CI)	194 C14H26
2.	1,14-Tetradecanediol (8CI9CI)	230 C14H30O2
3.	7-Hexadecyne (9CI)	222 C16H30
4.	Bicyclo[4.1.0]heptane, 2-methyl- (9CI)	110 C8H14
5.	1,12-Tridecadiene (8CI9CI)	180 C13H24
6.	1,12-Dodecanediol (8CI9CI)	202 C12H26O2
7.	Cyclododecanol (8CI9CI)	184 C12H24O

Sample file: >P3609 Spectrum #: 1247
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	93	21964498	8126	"BIGDB	117	11	0	0	91	2	68	80
2.	71	19812647	5381	"BIGDB	85	58	0	0	80	26	29	61

C13



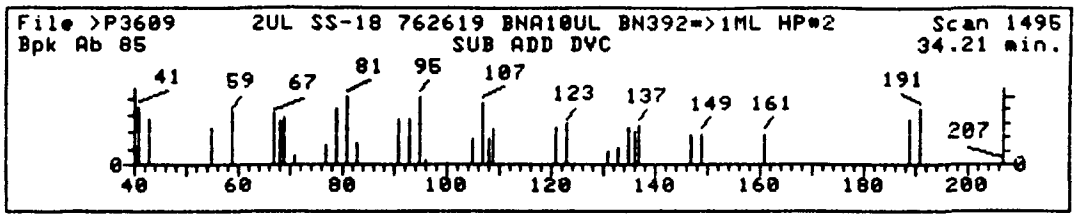
. Unknown #,3
Area = 27729.00 Tentative Concentration is 9.00

1.	1,13-Tetradecadiene (8CI9CI)	194 C14H26
2.	1,14-Tetradecanediol (8CI9CI)	230 C14H30O2
3.	1,12-Tridecadiene (8CI9CI)	180 C13H24
4.	1,12-Dodecanediol (8CI9CI)	202 C12H26O2
5.	Bicyclo[4.1.0]heptane, 2-methyl- (9CI)	110 C8H14
6.	5-Hexadecyne (9CI)	222 C16H30
7.	9-Octadecyne (9CI)	250 C18H34

Sample file: >P3609 Spectrum #: 1250
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	79	21964498	8126	"BIGDB	108	20	3	0	95	8	48	35

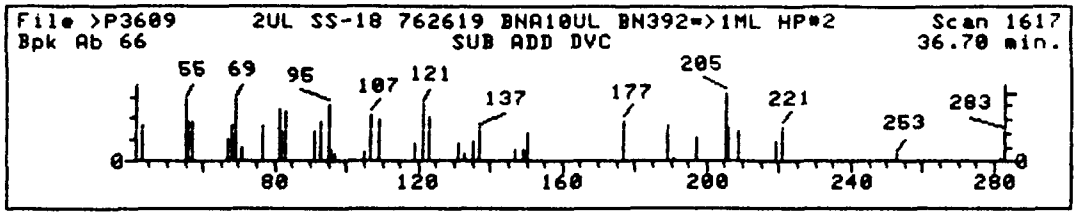
C12C



. Unknown #,4
Area = 21821.00 Tentative Concentration is 4.00

Sample file: >P3609 Spectrum #: 1495

No data base entries were retrieved.



. Unknown #,5
Area = 15638.00 Tentative Concentration is 4.00

Sample file: >P3609 Spectrum #: 1617

No data base entries were retrieved.

H2M LABORATORY

III. 2. Reporting Package for
I.D.# Surface Soil #16

10 Surface soils

CHAIN OF CUSTODY RECORD

PROJ. NO. 3HMP1605 | PROJECT NAME RI/FS North Sea Landfill

SAMPLERS: (Signature) S. Lee, J. Angyal

STA. NO.	DATE	TIME	GRAB	COMP	STATION LOCATION	NO. OF CONTAINERS	Bottle B (HNO3)	Bottle F (unpres)	Bottle I	Bottle I (B) H2SO4	Bottle K 1gal Glass	Bottle K 8oz Glass	1 Gallon Plastic Jug	Bottle H (NaOH)	REMARKS
SB#17	10/14	12:35pm	✓		SURFACE SOIL #17	1	-	-	-	-	1	-	USE FOR MS/MSD Sample		
SB#20	10/14	2:15pm	✓		SURFACE SOIL #20	3	-	1	-	-	-	1	1	-	- Split w/ Versar
SB#19	10/14	2:20pm	✓		SURFACE SOIL #19	3	-	1	-	-	-	1	1	-	-
SB#18	10/14	1:55pm	✓		SURFACE SOIL #18	3	-	1	-	-	-	1	1	-	- Split w/ Versar
SB#16	10/14	10:35am	✓		SURFACE SOIL #16	3	-	1	-	-	-	1	1	-	-
SB#15	10/14	11:25am	✓		SURFACE SOIL #15	3	-	1	-	-	-	1	1	-	- Split w/ Versar
SB#14	10/14	10:45am	✓		SURFACE SOIL #14	3	-	1	-	-	-	1	1	-	-
SB#13	10/14	10:05am	✓		SURFACE SOIL #13	3	-	1	-	-	-	1	1	-	-
SB#12	10/14	9:35am	✓		SURFACE SOIL #12	3	-	1	-	-	-	2		-	1clear / 1 Brown
SB#11	10/14	9:15am	✓		SURFACE SOIL #11	3	-	1	-	-	-	2		-	1clear / 1 Brown
	10/14	8:20am		✓	Field Blank	5	1	-	2	1	-	-	-	-	1 - filled 1 3/4 King
	10/13	1400 HRS	-	✓	Trip Blank	5	1	-	2	1	-	-	-	-	1
	10/13	1430 HRS	-	✓	Field Blank Water	2	-	-	-	-	-	-	-	2	-

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Steven W. Hunger	10/14/87 0700	James Angyal			
J. Angyal	10/14/87				

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)

Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks
J. Angyal	10/14/87		10/14/87 1815	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

6 etc

H2M LABORATORY

· Full CLP + TCL

Town of Southampton
North Sea Land fill
ID# SHMP 8605

Page 1

Continuing Chain of Custody

Samples Received by Jim Padilla date 10/14/87 time 1815 HRS.

Signature Jim Padilla

No. of bottles received	client sample ID's	type	H2M lab no. x·BN x·AE x·PH
1	surface soil #20	amber glass 40z 1	762617
1	surface soil #19	" "	762618 ✓
1	surface soil #18	" "	762619 ✓
1	surface soil #16	" "	762620 ✓
1	surface soil #15	" "	762621 ✓
1	surface soil #14	" "	762622 ✓
1	surface soil #13	" "	762623 ✓
1	surface soil #12	" "	762624 ✓
1	surface soil #11	" "	762625
2	Field Blank	2 I	762653 ✓
2	Trip Blank	2 I	762654 ✓

Sample Relinquished by	Sample Received by	Date	Time	Bottle Type	Reason
Jim Padilla	J.H. Barthman	10/15/87	1700 hrs	ALL	Storage / Analysis
J.H. Barthman	Mark J. Gardella	10/19/87	0900 hrs	762653 762654	Extraction / concen
Mark J. Gardella	J.H. Barthman	10/19/87	1600 hrs	762653 762654	storage
J.H. Barthman	Glenn K. Bartholomew	10/20/87	1500	All vials	Analysis

0130

SAMPLE PREPARATION FOR ORGANIC PRIORITY POLLUTANT EXTRACTABLES

H2M LABS, INC.

Environmental and Industrial Analytical Laboratory
575 Broad Hollow Road, Melville, NY 11747-5076

(516) 694-3040

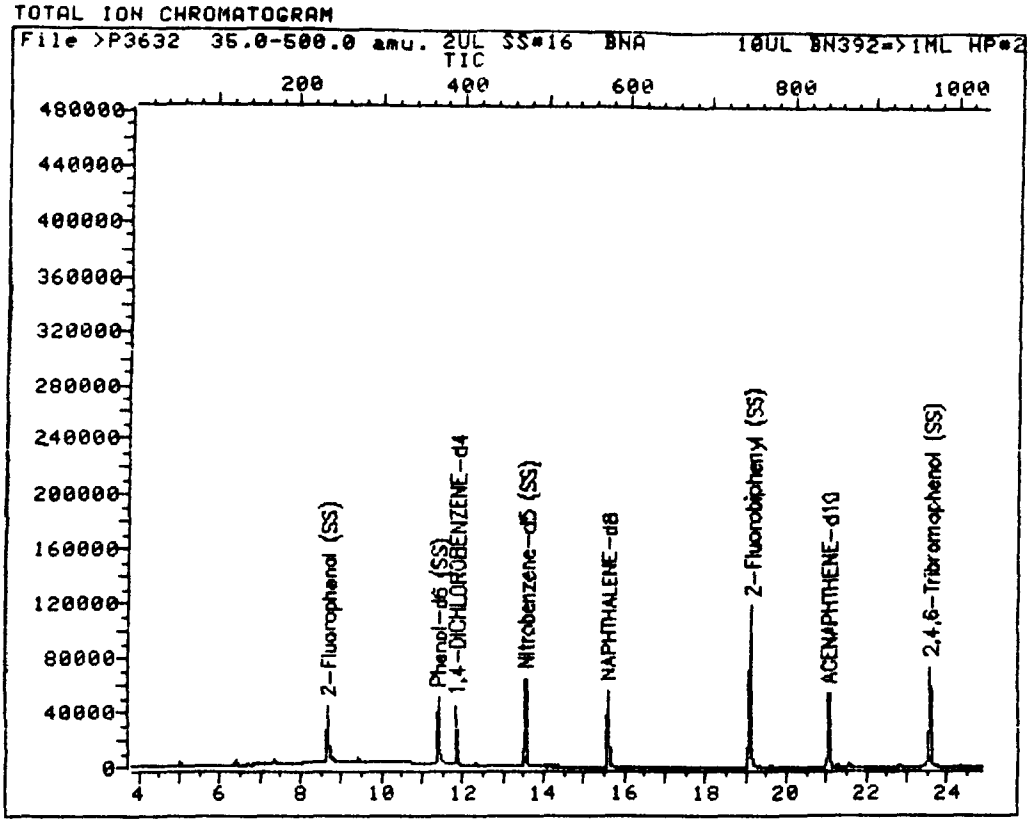
LAB #	762617	762618	762619	762620	762621	762622	762623	762624
LAB # PP								
Client Client Sample #	TSH SS#20	TSH SS#19	TSH SS#18	TSH SS#16	TSH SS#15	TSH SS#14	TSH SS#13	TSH SS#12
SCANS	BNA	BNA	BNA	BNA	BNA	BNA	BNA	BNA
PROTOCOL	CLP	CLP	CLP	CLP	CLP	CLP	CLP	CLP
EXTRACTION DATE	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20
ANALYST	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
METHOD	SOM	SOM	SOM	SOM	SOM	SOM	SOM	SOM
SAMPLE VOLUME (g)	25.0967	25.0754	25.0019	25.0848	25.0259	25.0690	25.0532	25.0058
SURROGATE NUMBER/VOLUME	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each
MATRIX SPIKE NUMBER/VOLUME								
BN EXTRACT SPLIT	N	N	N	N	N	N	N	N
CONCENTRATED DATE/INITIALS BN/AE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CONCENTRATION VOLUME BN	—	—	—	—	—	—	—	—
CONCENTRATION VOLUME AE	—	—	—	—	—	—	—	—
(SOIL) BNA	5ml	1ml	1ml	5ml	1ml	5ml	5ml	5ml
PP CONCENTRATED DATE/ANALYST								
PP CONCENTRATION VOLUME								
ALUMINA CLEANED								
Bio-Bead Cleaned	BB			BB		BB	BB	BB
REMARKS								

Semi-Volatile BNA

A.	date	direct Inj.	RUN #	GC Inj. #	Client #	Sample # / Lab #	Comments	Extraction standard: Sol. #	Extraction standard: Sol. Vol.	Storage Info.: Tape	Storage Info.: C.R.N.	Storage Info.: Track	QUANT.	Reanalysis Date
GKB	11/4	MS	3609		2	SS-18	762619	10	BN 352	1.0		B2		
			3610			SS-15	762621							
			3611			MW-5A	762952							
			3612			MW-5B	762955							
			3613			762911								
			3614			763340								
			3615			763341								
			3616			763343								
			3617			030/30	761657							
	V	V	3618		V	West Stockpile		V	V	V		V		
GKB	11/30	MS	DF 147		2	MS 44						B1		
			3619	3620		~~Method Blank 208~~	These on OK GKB	10	BN 352	1.0		B1		
			3620	3621		~~MW 6~~	~~762955~~							
			3621	3622		~~MW6 MS~~	~~762955~~							
			3622	3623		~~MW6 MSD~~	762933							
			3623	3624		~~MW2~~	762937							
			3624	3625		~~Field~~ Blank								
			3625	3626		Trip Blank								
	V	V	3626	3627	V	25 mg/ml HSL Std		V	V	V		V		
GKB	11/5	MS	DF 147		2	MS 44						B1		
GKB	11/5	MS	DF 149 3627		2	MS 44	50 mg DFTPP					B1		
GKB	11/6	MS	3627			25 mg/ml HSL Std		10	BN 352	1.0		B2		
			3628			Method Blank 206								
			3629			Field Blank	762653							
			3630			Trip Blank	762654							
			3631			SS #20	762617							
			3632			SS #16	762620							
			3633			SS #14	762622							
			3634			SS #13	762623							
	V	V	3635		V	SS #12	762624	V	V	V		V		

0132

TOTAL ION CHROMATOGRAM



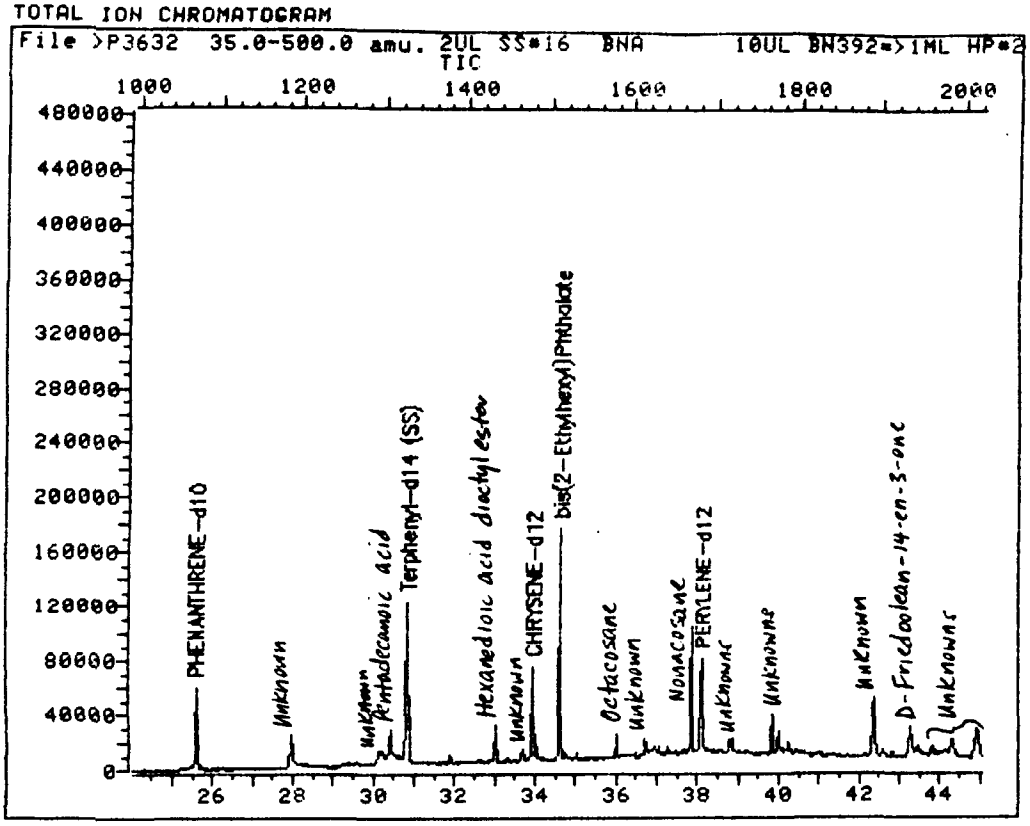
Data File: >P3632::B2 Quant Output File: ^P3632::QT
Name: 2UL SS#16 BNA
Misc: 10UL BN392=>1ML HP#2 762620 BTL#66

Id File: !IDXPP::ME
Title: PRIORITY POLLUTANTS
Last Calibration: 871103 12:07

Operator ID: GLENN
Quant Time: 871103 16:36
Injected at: 871103 15:49

TIC page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >P3632::B2 Quant Output File: ^P3632::QT
Name: 2UL SS#16 BNA
Misc: 10UL BN392=>1ML HP#2 762620 BTL#66

Id File: !IDXPP::ME
Title: PRIORITY POLLUTANTS
Last Calibration: 871103 12:07

Operator ID: GLENN
Quant Time: 871103 16:36
Injected at: 871103 15:49

TIC page 2 of 2

QUANT REPORT

Operator ID: GLENN Quant Rev: 6 Quant Time: 871103 16:36
Output File: ^P3632::QT Injected at: 871103 15:49
Data File: >P3632::B2 Dilution Factor: 1.00000
Name: 2UL SS#16 BNA
Misc: 10UL BN392=>1ML HP#2 762620 BTL#66

ID File: !IDXPP::ME
Title: PRIORITY POLLUTANTS
Last Calibration: 871103 12:07

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	11.84	395	14819	40.00	ug/mL	94
3)	2-Fluorophenol (SS)	8.66	239	24324	60.75	ug/mL	64
6)	Phenol-d6 (SS)	11.39	373	47092	92.68	ug/mL	96
14)	*NAPHTHALENE-d8	15.59	579	57458	40.00	ug/mL	56
15)	Nitrobenzene-d5 (SS)	13.55	479	71733	94.91	ug/mL	86
26)	*ACENAPHTHENE-d10	21.05	847	40405	40.00	ug/mL	94
30)	2-Fluorobiphenyl (SS)	19.11	752	121150	115.02	ug/mL	99
41)	2,4,6-Tribromophenol (SS)	23.57	971	29226	88.94	ug/mL	87
42)	*PHENANTHRENE-d10	25.61	1071	76808	40.00	ug/mL	62
52)	*CHRYSENE-d12	33.96	1480	79382	40.00	ug/mL	55
53)	Terphenyl-d14 (SS)	30.85	1328	166524	79.75	ug/mL	38
59)	bis(2-Ethylhexyl)Phthalate	34.63	1513	115155	43.89	ug/mL	89
61)	*PERYLENE-d12	38.13	1684	89320	40.00	ug/mL	76

* Compound is ISTD

MS data file header from : >P3632

Sample: 2UL SS#16 BNA Operator: GLENN MS 11/03/87 15:49
Misc : 10UL BN392=>1ML HP#2 762620 BTL#66
Sys. #: 2 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: EXTBNA Tuning file: MT8002 No. of extra records: 2
Source temp.: 0 Analyzer temp.: 280 Transfer line temp. : 0

Chromatographic temperatures : 30. 300. 0. 0. 0.
Chromatographic times, min. : 4.0 7.3 0.0 0.0 0.0
Chromatographic rate, deg/min: 8.0 0.0 0.0 .5 0.0

>P3632 2UL SS#16 BNA 10UL BN392=>1ML HP#2 762620
35.01 500.0 CLP ADC TIC
Upslope: .20 Area Reject: 10483. Max Peaks: 20 Bunching: 1
Dnslope: 0.00 Results File IP3632 Sorted by Time/Area INT

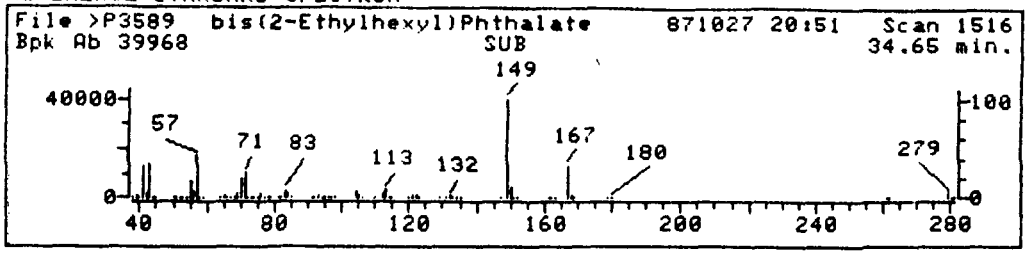
Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	28.07	1191	1192	1198	3858	39653	26991	13.26	1.905
2	30.13	1288	1293	1295	8812	88153	48092	23.63	3.393
3	30.42	1303	1307	1313	20258	187727	84036	41.30	5.930
4	33.01	1432	1434	1437	25706	92551	57445	28.23	4.053
5	33.69	1463	1467	1473	8609	116825	41469	20.38	2.926
6	36.02	1578	1581	1583	17620	96037	42931	21.10	3.029
7	36.72	1612	1615	1619	11993	133400	44148	21.70	3.115
8	36.94	1624	1626	1628	6198	73041	17425	8.56	1.230
9	37.86	1668	1671	1673	90970	274805	188301	92.54	13.287
10	38.78	1713	1716	1717	9606	91715	29834	14.66	2.105
11	38.84	1717	1719	1725	10560	154366	36611	17.99	2.583
12	39.83	1764	1767	1770	29326	160014	78507	38.58	5.540
13	39.99	1770	1775	1779	16445	196759	74615	36.67	5.265
14	40.24	1784	1787	1794	8304	173099	37861	18.61	2.672
15	42.36	1885	1891	1897	43296	335778	203479	100.00	14.358
16	43.26	1930	1935	1940	21854	228151	115734	56.88	8.166
17	43.45	1940	1944	1949	6042	150922	32705	16.07	2.308
18	43.82	1958	1962	1966	7360	137370	41922	20.60	2.958
19	44.31	1983	1986	1993	12528	189900	73415	36.08	5.180
20	44.94	2010	2017	2020	20265	242373	141688	69.63	9.998

Sum of corrected areas: 1417209.

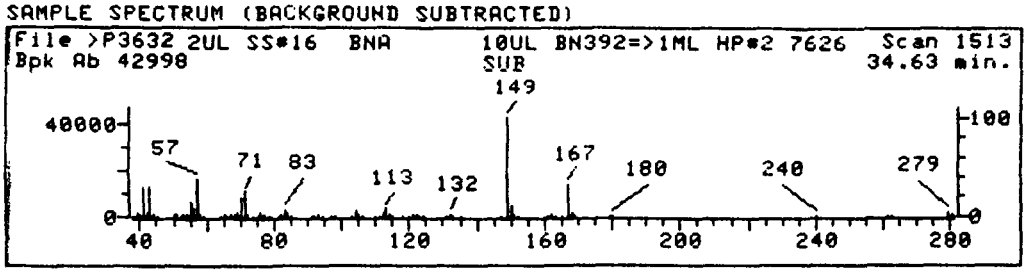
Summary of Unknowns PBM Library Search and Quantitation

Standard	Concentration	Area	Retention Time	Unknown Window	
1	40.0	104828.	11.84	3.81 -	13.71
2	40.0	132709.	15.59	13.71 -	18.32
3	40.0	183791.	21.04	18.32 -	23.33
4	40.0	167699.	25.61	23.33 -	29.78
5	40.0	6:48 PM	TUE., 10	NOV., 1987	36.04
6	40.0	263220.	38.13	36.04 -	45.07

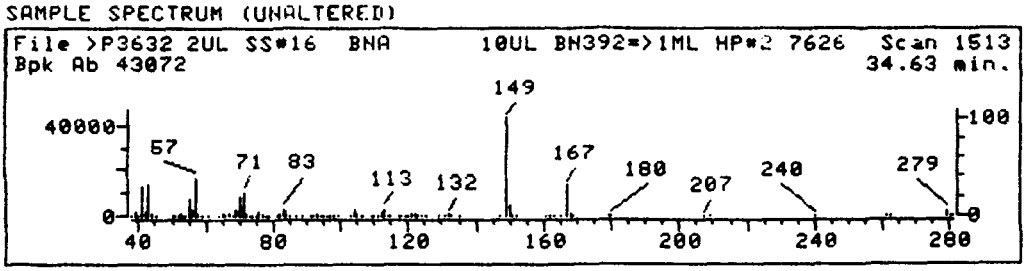
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

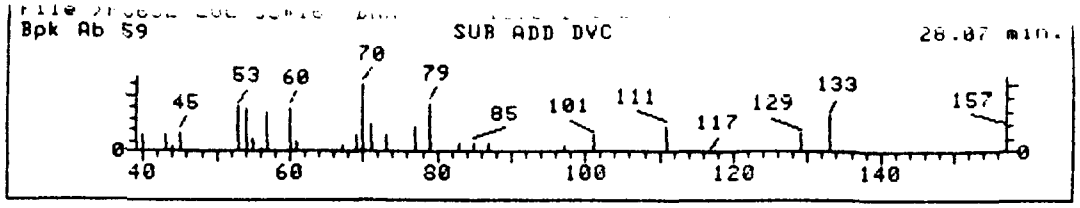


SAMPLE SPECTRUM (UNALTERED)



Data File: >P3632::B2 Quant Output File: ^P3632::QT
Name: 2UL SS#16 BNA
Misc: 10UL BN392=>1ML HP#2 762620 BTL#66
Quant Time: 871103 16:36 Quant ID File: !IDXPP::ME
Injected at: 871103 15:49 Last Calibration: 871103 12:07

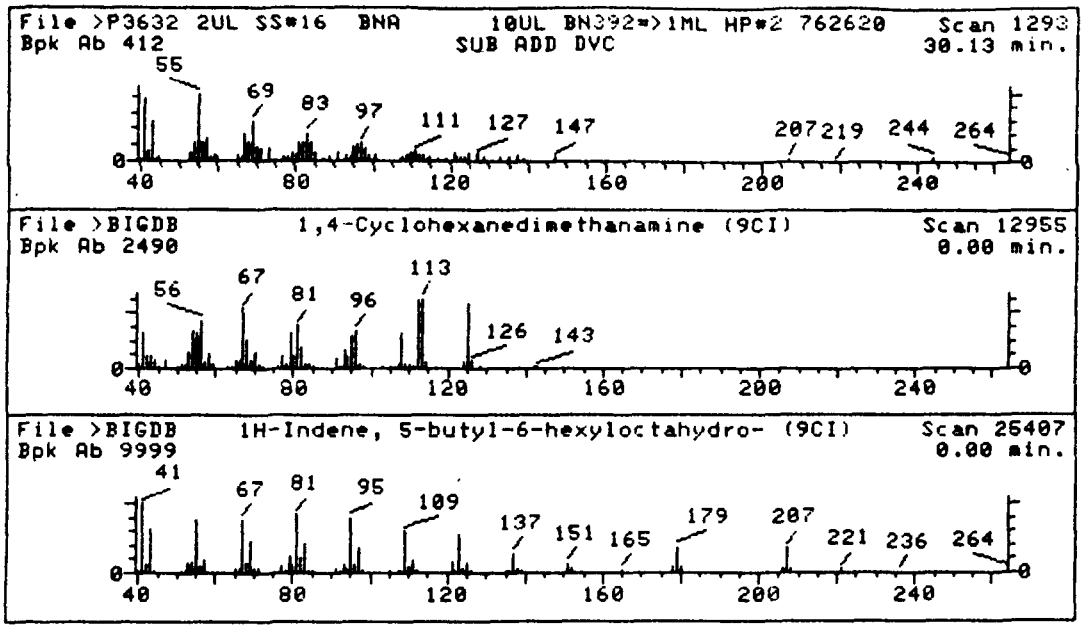
Compound No: 59
Compound Name: bis(2-Ethylhexyl)Phthalate
Scan Number: 1513
Retention Time: 34.63 min.
Quant Ion: 149.0
Area: 115155
Concentration: 43.89 ug/mL
q-value: 89



. Unknown #,1
Area = 26991.00 Tentative Concentration is 260.00

Sample file: >P3632 Spectrum #: 1192

No data base entries were retrieved.

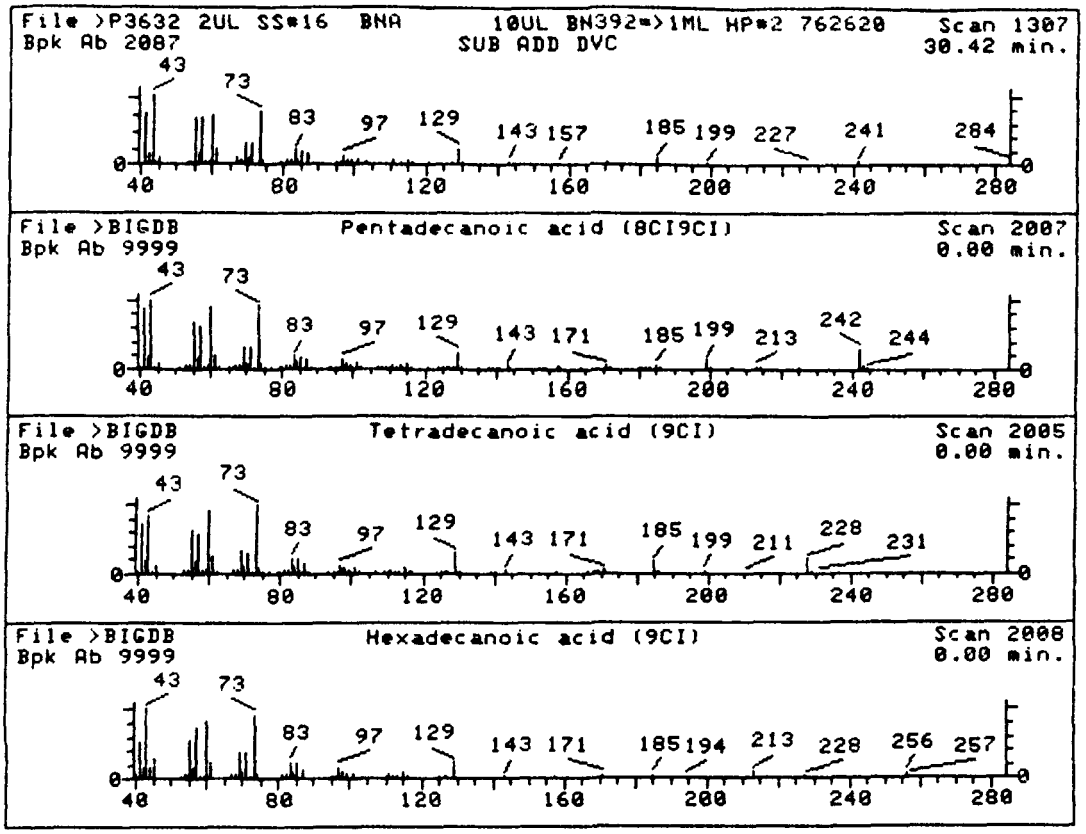


. Unknown #,2
Area = 48092.00 Tentative Concentration is 340.00

1. 1,4-Cyclohexanedimethanamine (9CI) 142 C8H18N2
2. 1H-Indene, 5-butyl-6-hexyloctahydro- (9CI) 264 C19H36

Sample file: >P3632 Spectrum #: 1293
Search speed: 1 Tilting option: N No. of ion ranges searched: 58

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	15	2549931	12955	"BIGDB	26	69	0	0	37	59	3	13



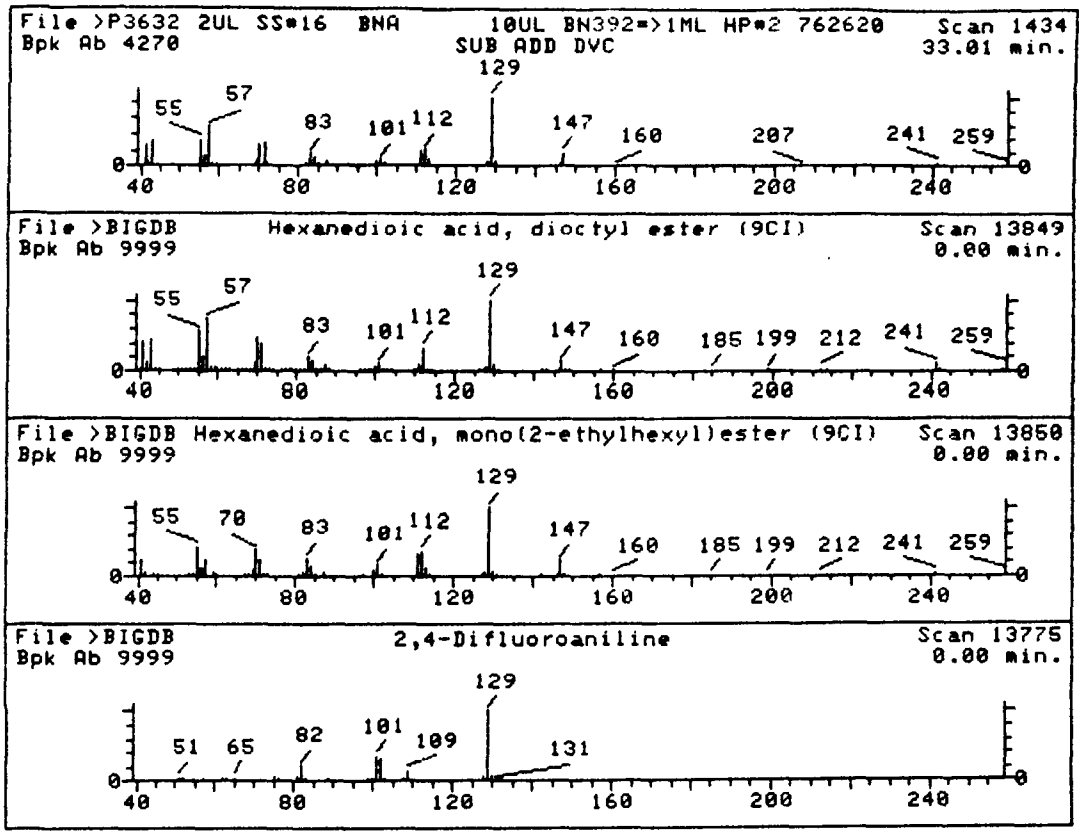
. Unknown #,3
Area = 84036.00 Tentative Concentration is 600.00

1.	Pentadecanoic acid (8CI9CI)	242 C15H30O2
2.	Tetradecanoic acid (9CI)	228 C14H28O2
3.	Hexadecanoic acid (9CI)	256 C16H32O2
4.	Dodecanamide, N,N-bis(2-hydroxyethyl)- (8CI9CI)	287 C16H33NO3
5.	Glycine, N-methyl-N-(1-oxododecyl)- (9CI)	271 C15H29NO3
6.	Heptanoic acid (8CI9CI)	130 C7H14O2
7.	Butyraldehyde, semicarbazone (8CI)	129 C5H11N3O

Sample file: >P3632 Spectrum #: 1307
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	71	1002842	2007	"BIGDB	101	49	2	0	77	12	38	35

0140

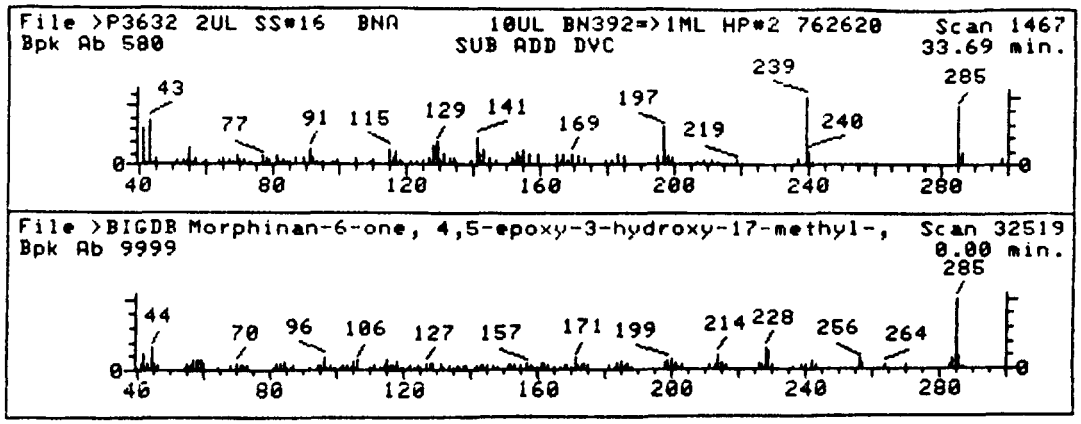


Unknown #,4
Area = 57445.00 Tentative Concentration is 410.00

1.	Hexanedioic acid, dioctyl ester (9CI)	370 C22H4204
2.	Hexanedioic acid, mono(2-ethylhexyl)ester (9CI)	258 C14H2604
3.	2,4-Difluoroaniline	129 C6H5F2N

Sample file: >P3632 Spectrum #: 1434
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	75	123795	13849	"BIGDB	123	41	2	0	68	19	35	60

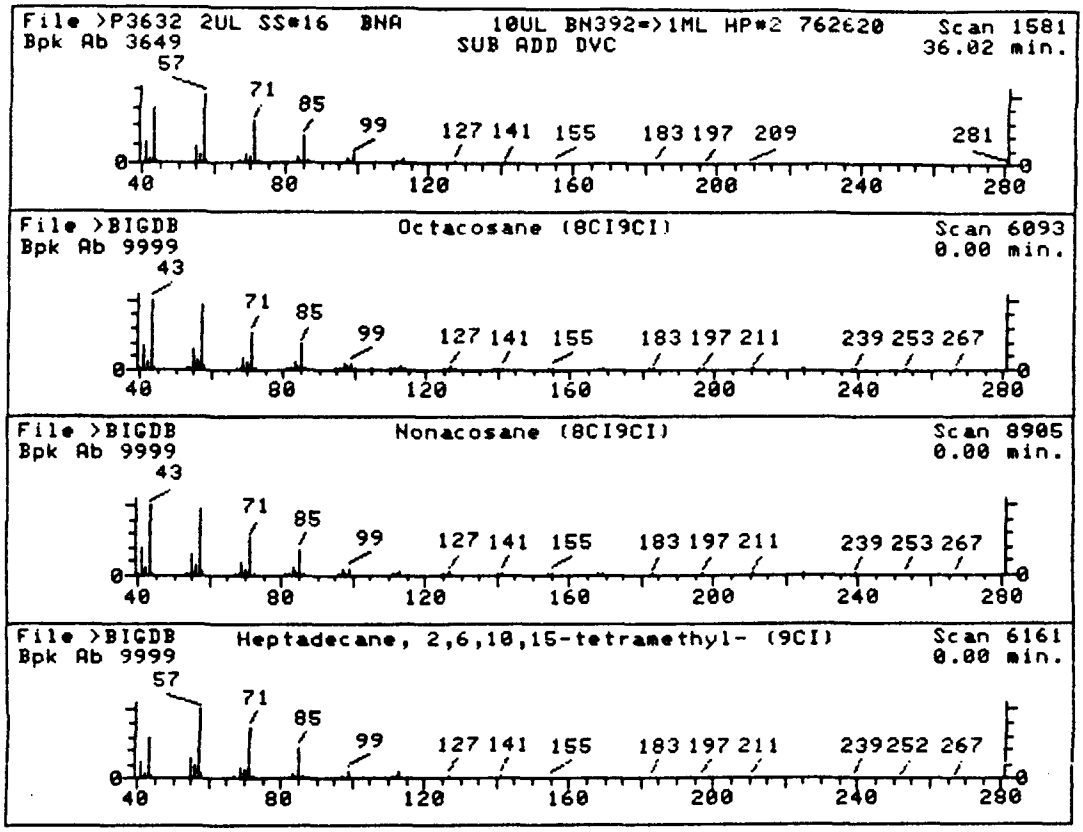


. Unknown #,5
Area = 41469.00 Tentative Concentration is 300.00

1. Morphinan-6-one, 4,5-epoxy-3-hydroxy-17-methyl-, (5. alpha.)- (9CI) 285 C17H19NO3

Sample file: >P3632 Spectrum #: 1467
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	11*	466999	32519	"BIGDB	41	128	3	0	86	65	2	13

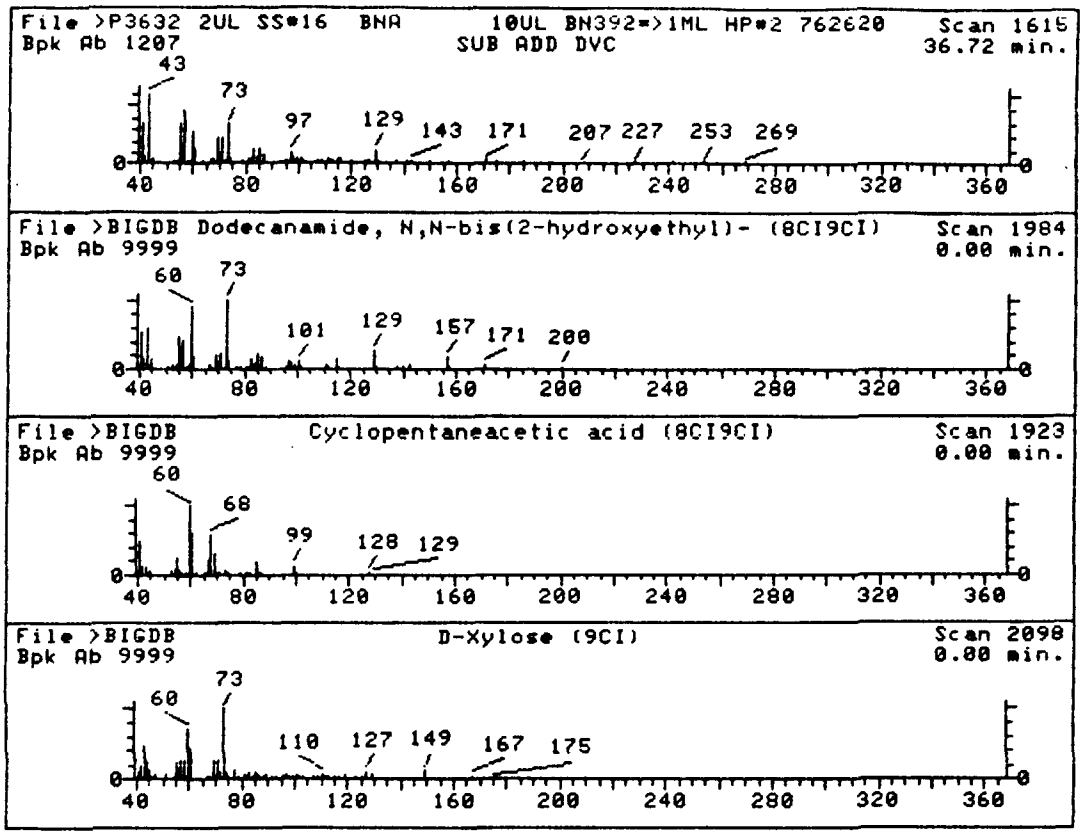


. Unknown #,6
Area = 42931.00 Tentative Concentration is 310.00

1.	Octacosane (8CI9CI)	394 C28H58
2.	Nonacosane (8CI9CI)	408 C29H60
3.	Heptadecane, 2,6,10,15-tetramethyl- (9CI)	296 C21H44
4.	Eicosane, 10-methyl- (9CI)	296 C21H44
5.	Pentacosane (8CI9CI)	352 C25H52
6.	Pentatriacontane (8CI9CI)	492 C35H72
7.	Tetratetracontane (8CI9CI)	618 C44H90

Sample file: >P3632 Spectrum #: 1581
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	86	630024	6093	"BIGDB	101	36	2	0	79	3	60	35
2.	86	630035	8905	"BIGDB	99	46	2	0	77	5	60	32
3.	83	54833486	6161	"BIGDB	95	38	2	0	67	2	57	29
4.	83	54833237	6226	"BIGDB	89	44	2	0	81	5	57	26
5.	83	629992	6092	"BIGDB	90	50	2	0	80	3	57	27
6.	83	630079	6147	"BIGDB	79	72	2	0	67	3	57	21
7.	78	7098228	8906	"BIGDB	74	82	2	0	78	3	55	18

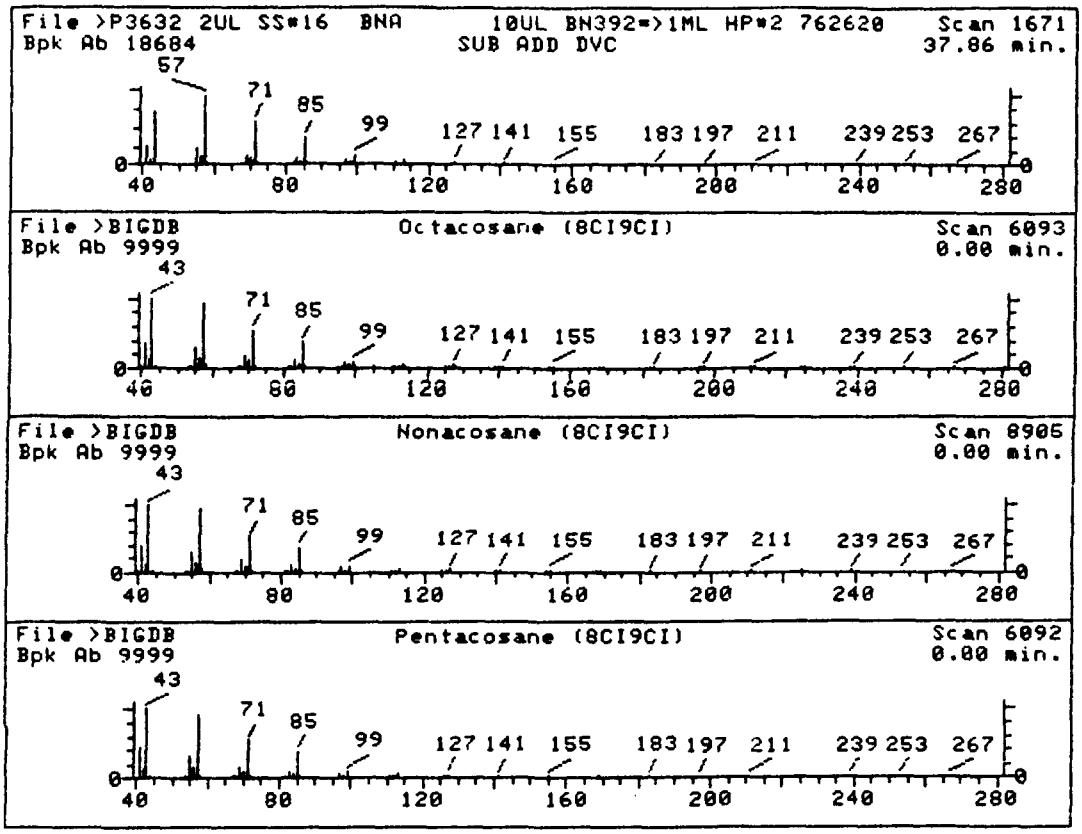


. Unknown #,7
Area = 44148.00 Tentative Concentration is 270.00

1.	Dodecanamide, N,N-bis(2-hydroxyethyl)- (8CI9CI)	287	C16H33NO3
2.	Cyclopentaneacetic acid (8CI9CI)	128	C7H12O2
3.	D-Xylose (9CI)	150	C5H10O5
4.	Heptanoic acid (8CI9CI)	130	C7H14O2
5.	L-Lyxose (9CI)	150	C5H10O5
6.	Thiosulfuric acid (H2S2O3), S-(2-aminoethyl) ester (9CI)	157	C2H7NO3S2
7.	Pentanoic acid (9CI)	102	C5H10O2

Sample file: >P3632 Spectrum #: 1615
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	44	120401	1984	"BIGDB	70	83	1	0	51	32	16	27

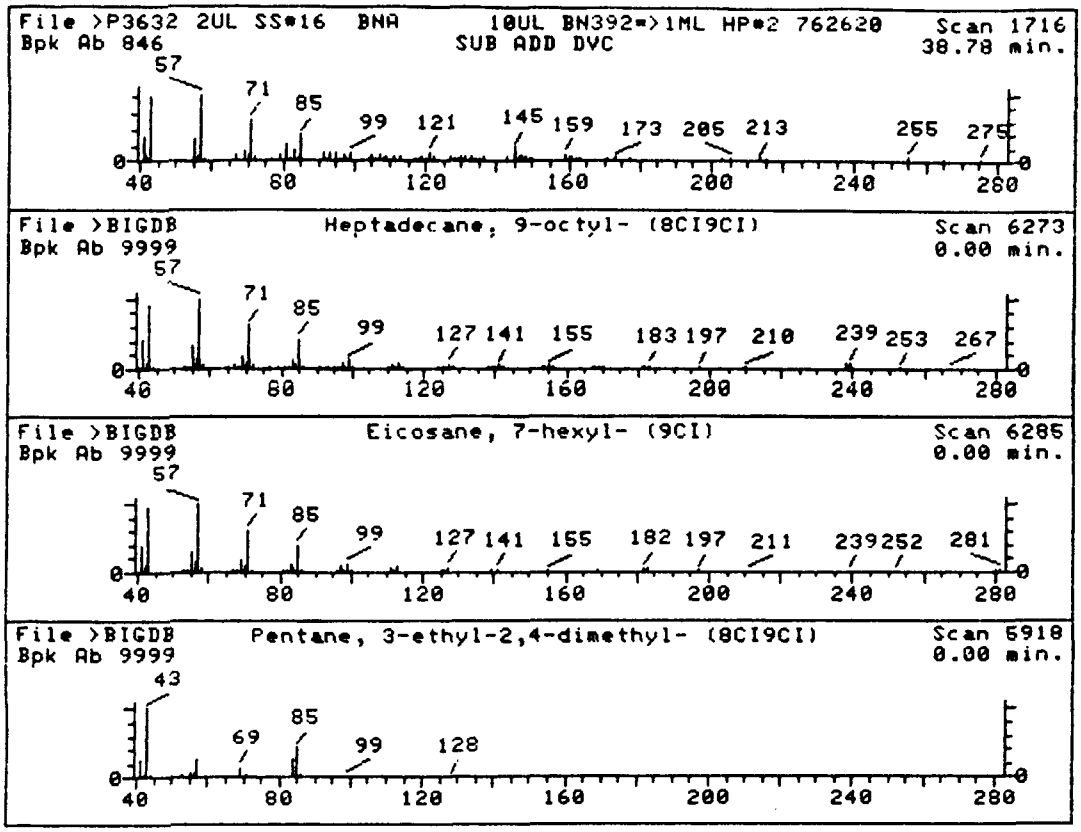


. Unknown #,9
Area = 188301.0 Tentative Concentration is 1100.00

1.	Octacosane (8CI9CI)	394 C28H58
2.	Nonacosane (8CI9CI)	408 C29H60
3.	Pentacosane (8CI9CI)	352 C25H52
4.	Eicosane, 10-methyl- (9CI)	296 C21H44
5.	Heptadecane, 2,6,10,15-tetramethyl- (9CI)	296 C21H44
6.	Tritetracontane (8CI9CI)	604 C43H88
7.	Pentadecane (8CI9CI)	212 C15H32

Sample file: >P3632 Spectrum #: 1671
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	87	630024	6093	"BIGDB	107	30	2	0	77	5	63	44
2.	87	630035	8905	"BIGDB	106	39	2	0	77	3	63	42
3.	86	629992	6092	"BIGDB	96	44	2	0	77	2	60	30
4.	83	54833237	6226	"BIGDB	95	38	2	0	86	5	57	29
5.	83	54833486	6161	"BIGDB	94	39	2	0	68	2	57	28
6.	78	7098217	6150	"BIGDB	69	99	2	0	71	2	55	15
7.	78	629629	6265	"BIGDB	75	45	2	0	74	5	55	19

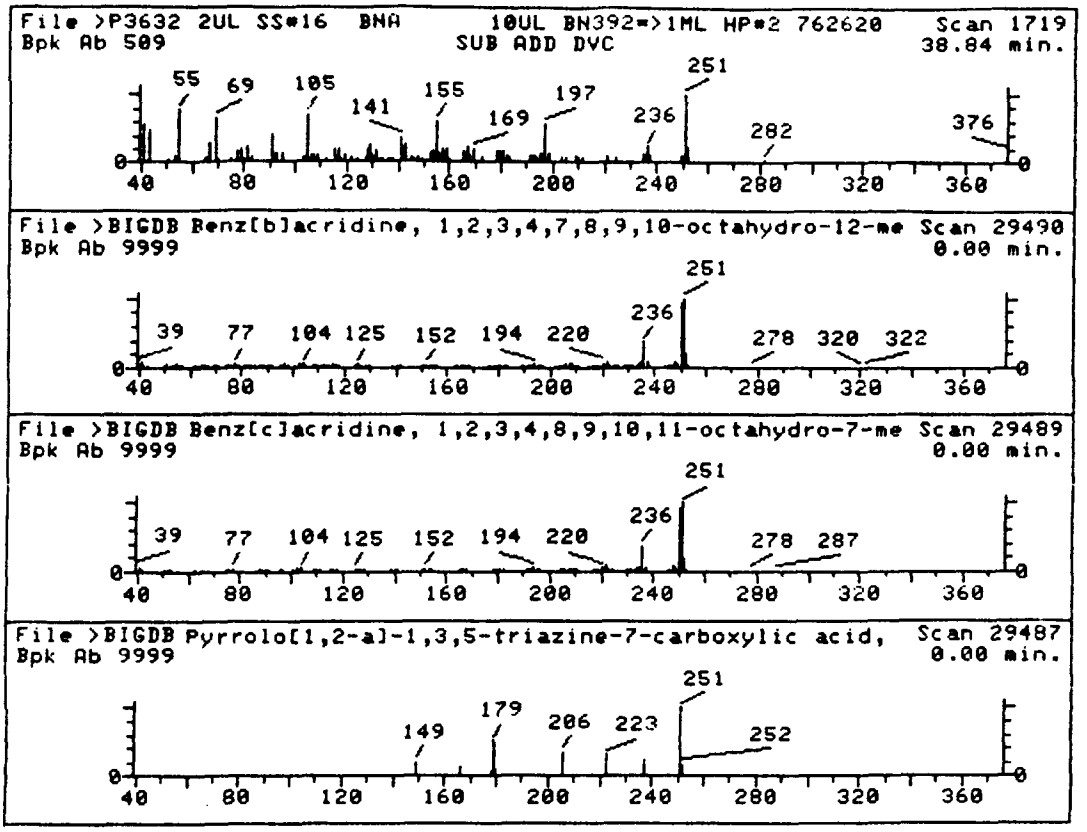


. Unknown #,10
Area = 29834.00 Tentative Concentration is 180.00

1.	Heptadecane, 9-octyl- (8CI9CI)	352 C25H52
2.	Eicosane, 7-hexyl- (9CI)	366 C26H54
3.	Pentane, 3-ethyl-2,4-dimethyl- (8CI9CI)	128 C9H20
4.	4-Octanone, 2,3-epoxy-2-methyl- (8CI)	156 C9H16O2
5.	Nonane, 3,7-dimethyl- (8CI9CI)	156 C11H24
6.	Heptacosane (8CI9CI)	380 C27H56
7.	Heneicosane, 11-(1-ethylpropyl)- (9CI)	366 C26H54

Sample file: >P3632 Spectrum #: 1716
Search speed: 1 Tilting option: N No. of ion ranges searched: 50

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	15	7225641	6273	"BIGDB	71	72	3	0	95	60	3	12

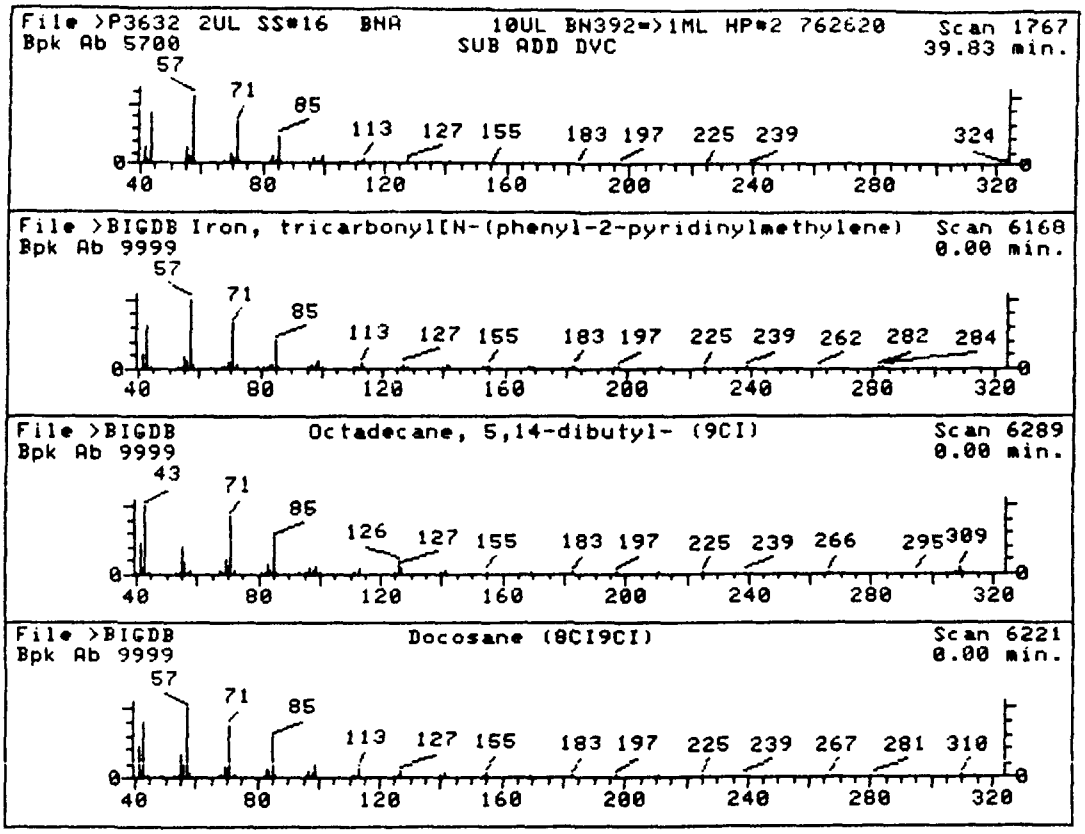


. Unknown #,11
Area = 36611.00 Tentative Concentration is 220.00

1.	Benz[b]acridine, 1,2,3,4,7,8,9,10-octahydro-12-methyl- (9CI)	251	C18H21N
2.	Benz[c]acridine, 1,2,3,4,8,9,10,11-octahydro-7-methyl- (9CI)	251	C18H21N
3.	Pyrrolo[1,2-a]-1,3,5-triazine-7-carboxylic acid, 1,2,3,4-tetrahydro-1,3-dimethyl-2,4-dioxo-, ethyl ester (9CI)	251	C11H13N3O4
4.	Isoxazole, 5-(4-methoxyphenyl)-3-phenyl- (9CI)	251	C16H13NO2
5.	Thiazole, 4-[1,1'-biphenyl]-4-yl-2-methyl- (9CI)	251	C16H13NS

Sample file: >P3632 Spectrum #: 1719
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	27*	55044741	29490	"BIGDB	46	100	3	0	100	38	10	13

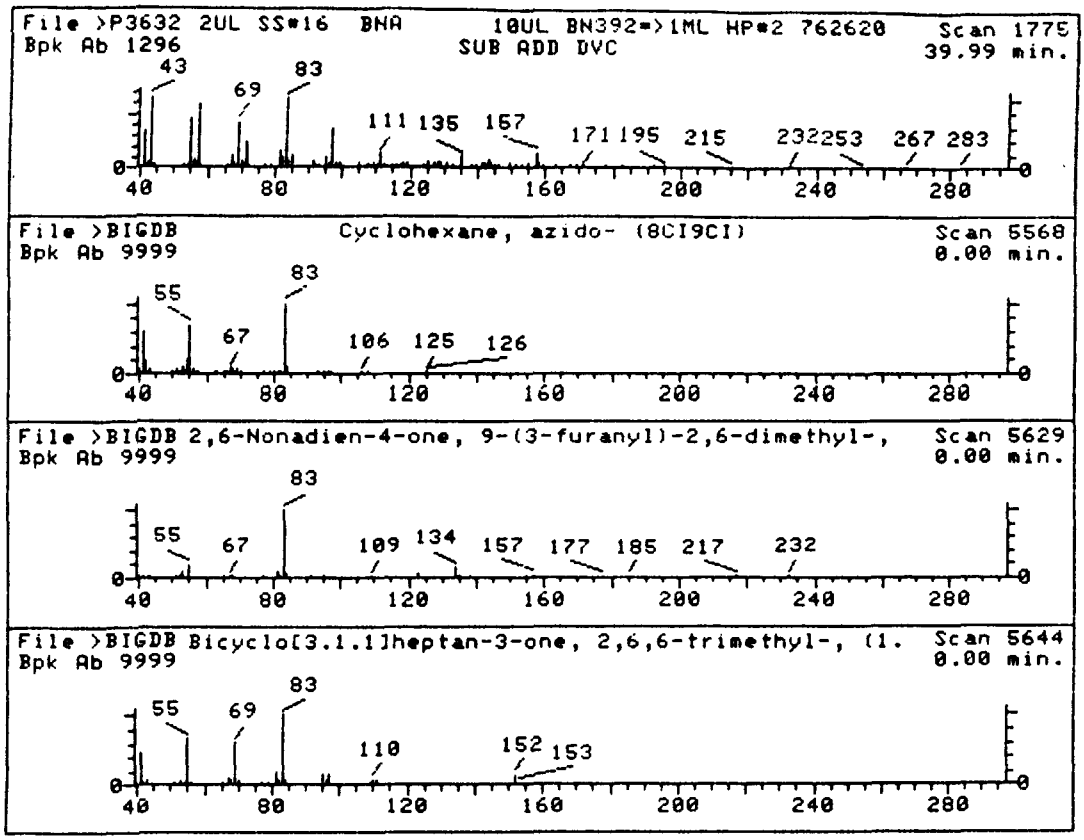


. Unknown #,12
Area = 78507.00 Tentative Concentration is 480.00

1.	Iron, tricarbonyl[N-(phenyl-2-pyridinylmethylene)benzenamine-N,N']- (9CI)	398	C21H14FeN2O3
2.	Octadecane, 5,14-dibutyl- (9CI)	366	C26H54
3.	Docosane (8CI9CI)	310	C22H46
4.	Heptadecane, 2,6,10,15-tetramethyl- (9CI)	296	C21H44
5.	Undecane, 5-ethyl-5-propyl- (8CI9CI)	226	C16H34
6.	Eicosane (8CI9CI)	282	C20H42
7.	Heptadecane (8CI9CI)	240	C17H36

Sample file: >P3632 Spectrum #: 1767
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	83	74764117	6168	"BIGDB	118	19	1	0	69	14	51	73
2.	83	55282138	6289	"BIGDB	94	60	2	0	62	4	57	28
3.	83	629970	6221	"BIGDB	82	65	2	0	71	4	57	22
4.	81	54833486	6161	"BIGDB	85	48	1	0	65	8	53	40
5.	78	2755079	23921	"BIGDB	62	70	2	0	75	2	55	13
6.	76	112958	6286	"BIGDB	95	44	2	0	78	8	45	29
7.	76	629797	6191	"BIGDB	85	36	2	0	84	10	45	23

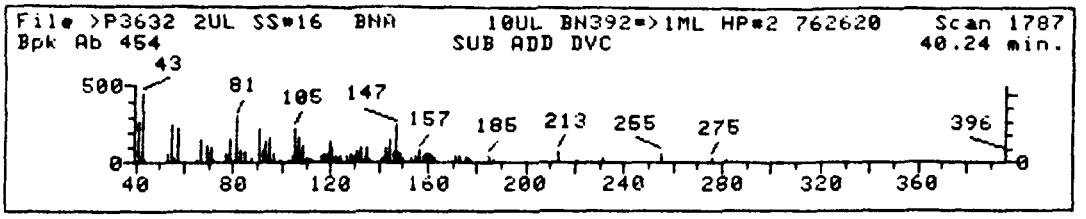


. Unknown #,13
Area = 74615.00 Tentative Concentration is 450.00

1.	Cyclohexane, azido- (8CI9CI)	125	C6H11N3
2.	2,6-Nonadien-4-one, 9-(3-furanyl)-2,6-dimethyl-, (E) - (9CI)	232	C15H20O2
3.	Bicyclo[3.1.1]heptan-3-one, 2,6,6-trimethyl-, (1.alpha.,2.alpha.,5.alpha.)- (9CI)	152	C10H16O
4.	1,3-Cyclohexanedione, 2,2,5,5-tetramethyl- (8CI9CI)	168	C10H16O2
5.	Cyclohexanecarboxylic acid, ethenyl ester (9CI)	154	C9H14O2
6.	4H-1,2,4-Triazole, 4-methyl- (8CI9CI)	83	C3H5N3
7.	Cyclohexanecarbonyl chloride (8CI9CI)	146	C7H11ClO

Sample file: >P3632 Spectrum #: 1775
Search speed: 1 Tilting option: N No. of ion ranges searched: 51

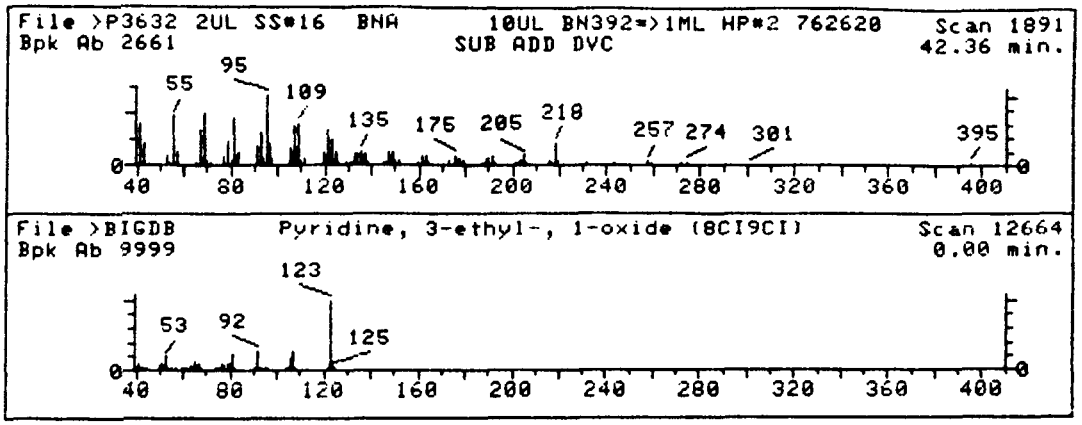
	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	20*	19573229	5568	"BIGDB	31	57	2	0	88	55	5	15



. Unknown #,14
Area = 37861.00 Tentative Concentration is 230.00

Sample file: >P3632 Spectrum #: 1787

No data base entries were retrieved.

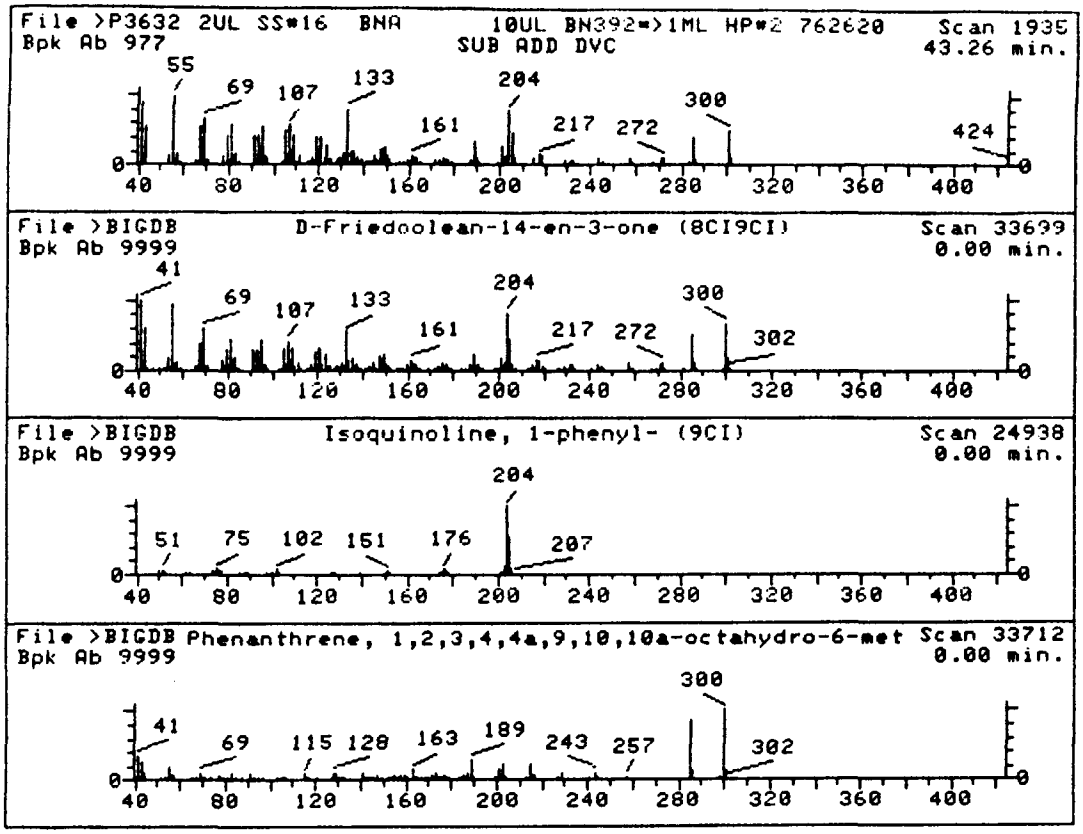


. Unknown #,15
Area = 203479.0 Tentative Concentration is 1200.00

1. Pyridine, 3-ethyl-, 1-oxide (8CI9CI) 123 C7H9NO

Sample file: >P3632 Spectrum #: 1891
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	12*	14906628	12664	"BIGDB	39	45	1	0	38	65	2	22

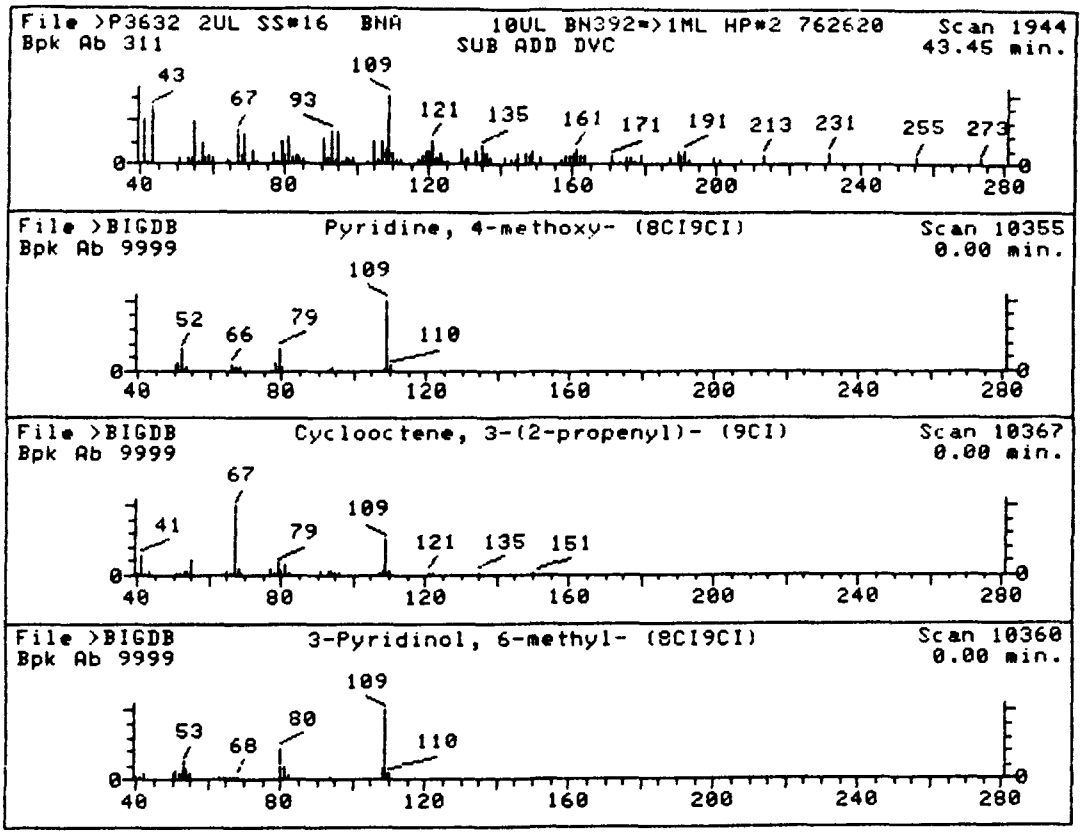


. Unknown #,16
Area = 115734.0 Tentative Concentration is 700.00

1.	D-Friedoolean-14-en-3-one (8CI9CI)	424	C30H48O
2.	Isoquinoline, 1-phenyl- (9CI)	205	C15H11N
3.	Phenanthrene, 1,2,3,4,4a,9,10,10a-octahydro-6-methoxy-1,1,4a-trimethyl-7-(1-methylethyl)-, (4aS-trans)- (9CI)	300	C21H32O
4.	6H-Benzofuro[3,2-c][1]benzopyran-6a(11aH)-ol, 3,9-dimethoxy-, (6aR-cis)- (9CI)	300	C17H16O5
5.	Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-1,8a-dimethyl-7-(1-methylethenyl)-, [1R-(1.alpha.,7.beta.,8a.alpha.)]- (9CI)	204	C15H24
6.	2(1H)-Phenanthrenone, 3,4,4a,9,10,10a-hexahydro-6-hydroxy-1,1,4a-trimethyl-7-(1-methylethyl)-, (4aS-trans)- (9CI)	300	C20H28O2
7.	Naphthalene, 1,8-di-1-propynyl- (8CI9CI)	204	C16H12

Sample file: >P3632 Spectrum #: 1935
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	83	514078	33699	"BIGDB	125	86	1	0	75	12	51	77

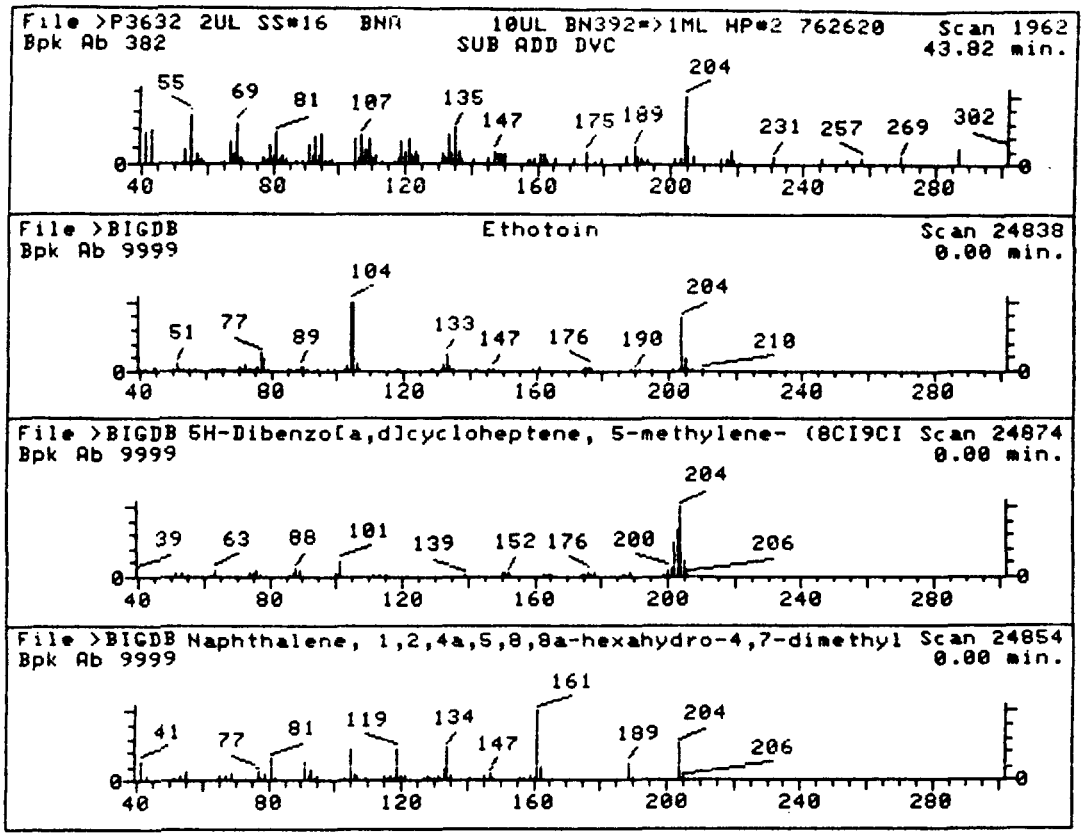


. Unknown #,17
Area = 32705.00 Tentative Concentration is 200.00

1.	Pyridine, 4-methoxy- (8CI9CI)	109	C6H7NO
2.	Cyclooctene, 3-(2-propenyl)- (9CI)	150	C11H18
3.	3-Pyridinol, 6-methyl- (8CI9CI)	109	C6H7NO
4.	Cyclopentane, 2-ethylidene-1,1-dimethyl- (9CI)	124	C9H16
5.	Bicyclo[2.2.1]hept-2-en-2-amine, N,N-dimethyl- (9CI)	137	C9H15N
6.	Phenol, 3-amino- (9CI)	109	C6H7NO
7.	Benzenemethanamine, 3-fluoro- (9CI)	125	C7H8FN

Sample file: >P3632 Spectrum #: 1944
Search speed: 1 Tilting option: N No. of ion ranges searched: 50

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	15*	620086	10355	"BIGDB	46	51	3	0	100	57	3	14

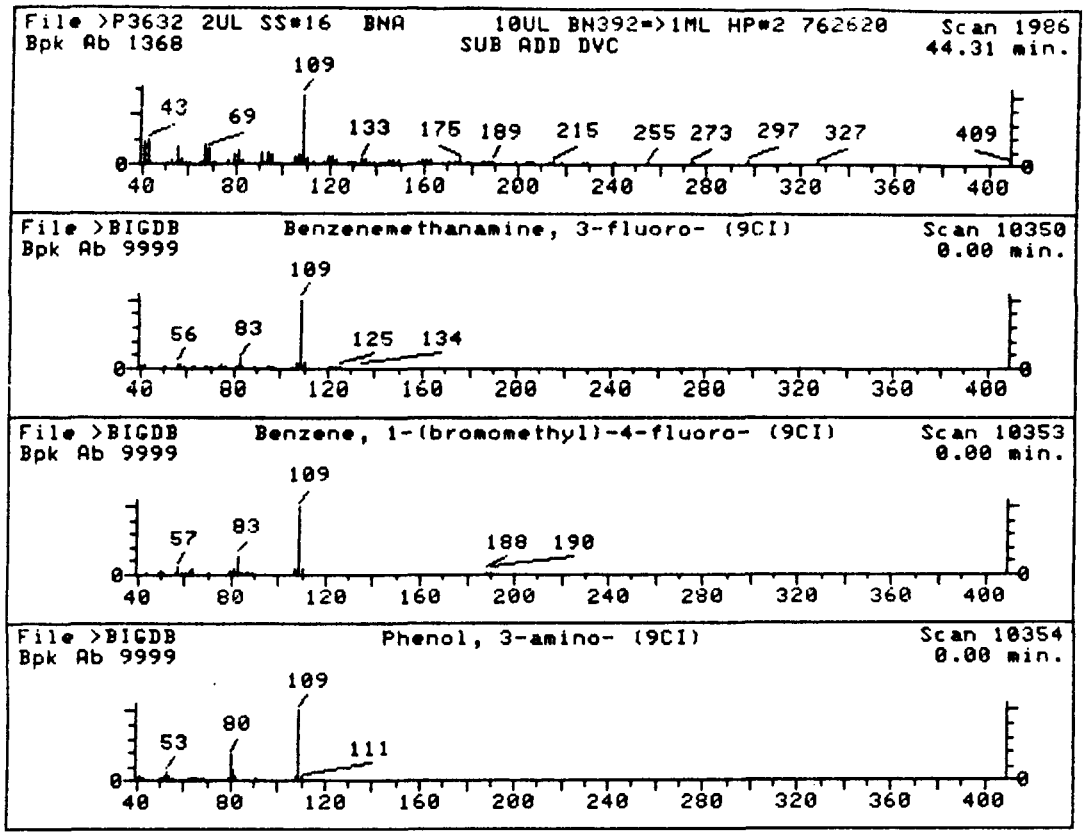


. Unknown #,18
Area = 41922.00 Tentative Concentration is 250.00

1.	Ethotoin	204 C11H12N2O2
2.	5H-Dibenzo[a,d]cycloheptene, 5-methylene- (8CI9CI)	204 C16H12
3.	Naphthalene, 1,2,4a,5,8,8a-hexahydro-4,7-dimethyl-1-(1-methylethyl)-, [1S-(1.alpha.,4a.beta.,8a.alpha.)]- (9CI)	204 C15H24
4.	Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-1,8a-dimethyl-7-(1-methylethenyl)-, [1R-(1.alpha.,7.beta.,8a.alpha.)]- (9CI)	204 C15H24
5.	Cyclopentanone, 5-furfurylidene-2,2,3-trimethyl- (8C	204 C13H16O2
6.	1,4-Naphthalenedione, 8-hydroxy-2-methoxy- (9CI)	204 C11H8O4
7.	Naphthalene, 1,2,4a,5,8,8a-hexahydro-4,7-dimethyl-1-(1-methylethyl)-, (1.alpha.,4a.beta.,8a.alpha.)-(.+-.)- (9CI)	204 C15H24

Sample file: >P3632 Spectrum #: 1962
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	20*	86351	24838	"BIGDB	25	104	3	0	129	52	5	13

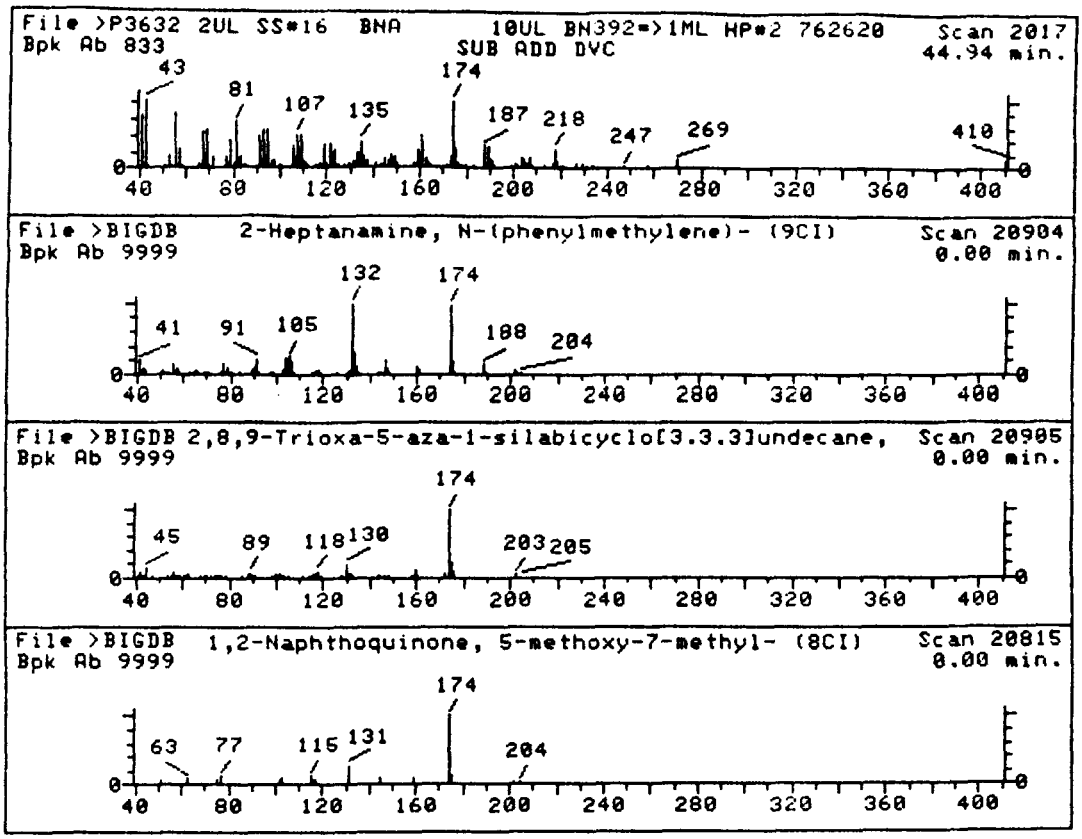


. Unknown #,19
Area = 73415.00 Tentative Concentration is 440.00

1.	Benzenemethanamine, 3-fluoro- (9CI)	125 C7H8FN
2.	Benzene, 1-(bromomethyl)-4-fluoro- (9CI)	188 C7H6BrF
3.	Phenol, 3-amino- (9CI)	109 C6H7NO
4.	2,6-Pyridinediamine (9CI)	109 C5H7N3
5.	3-Pyridinol, 6-methyl- (8CI9CI)	109 C6H7NO
6.	Silane, tetra-2-propenyl- (9CI)	192 C12H20Si
7.	Ethanone, 1-(1,3-dimethyl-3-cyclohexen-1-yl)- (9CI)	152 C10H16O

Sample file: >P3632 Spectrum #: 1986
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	40*	100823	10350	"BIGDB	34	47	2	0	100	28	14	17



. Unknown #,20
Area = 141688.0 Tentative Concentration is 860.00

1.	2-Heptanamine, N-(phenylmethylene)- (9CI)	203	C14H21N
2.	2,8,9-Trioxa-5-aza-1-silabicyclo[3.3.3]undecane, 1-ethyl- (8CI9CI)	203	C8H17NO3Si
3.	1,2-Naphthoquinone, 5-methoxy-7-methyl- (8CI)	202	C12H10O3
4.	1(2H)-Naphthalenone, 3,4-dihydro-5,6-dimethyl- (8CI9CI)	174	C12H14O
5.	1(2H)-Naphthalenone, 3,4-dihydro-5,8-dimethyl- (8CI9CI)	174	C12H14O
6.	6-Indolizinecarboxamide, 2-methyl- (8CI9CI)	174	C10H10N2O
7.	1(2H)-Naphthalenone, 3,4-dihydro-6,8-dimethyl- (8CI9CI)	174	C12H14O

Sample file: >P3632 Spectrum #: 2017
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	18*	55104002	20904	"BIGDB	50	86	2	0	67	59	4	23

H2M LABORATORY

III. 2. Reporting Package for
I.D.# Surface Soil #15

CHAIN OF CUSTODY RECORD

PROJ. NO.: SHMP1005 | PROJECT NAME: RI/FS North Sea Landfill

SAMPLERS: (Signature) J. Angyal

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Bottle B (HNO3)	Bottle F (unpres)	Bottle I	Bottle L(P) H2SO4	Bottle K 1 2+ Glass	Bottle K 2 40z Glass	Bottle K Plastic 1 Gallon Jug	Bottle H (NaOH)	REMARKS
SS#17	10/14	12:45pm	✓		SURFACE SOIL #17	1	–	–	–	–	1	–	USE FOR MS/MSD Sample		
SS#20	10/14	2:15pm	✓		SURFACE SOIL #20	3	–	1	–	–	–	1	1	–	– Split w/ Ebasco
SS#19	10/14	2:30pm	✓		SURFACE SOIL #19	3	–	1	–	–	–	1	1	–	–
SS#18	10/14	1:50pm	✓		SURFACE SOIL #18	3	–	1	–	–	–	1	1	–	– Split w/ Ebasco
SS#16	10/14	10:30am	✓		SURFACE SOIL #16	3	–	1	–	–	–	1	1	–	–
SS#15	10/14	11:40am	✓		SURFACE SOIL #15	3	–	1	–	–	–	1	1	–	– Split w/ Ebasco
SS#14	10/14	11:10am	✓		SURFACE SOIL #14	3	–	1	–	–	–	1	1	–	–
SS#13	10/14	10:50am	✓		SURFACE SOIL #13	3	–	1	–	–	–	1	1	–	–
SS#12	10/14	10:20am	✓		SURFACE SOIL #12	3	–	1	–	–	–	2		–	1 clear / 1 Brown
SS#11	10/14	9:50am	✓		SURFACE SOIL #11	3	–	1	–	–	–	2		–	1 clear / 1 Brown
	10/14	8:30am		✓	Field Blank	5	1	–	2	1	–	–	–	–	1 – filled 1st thing
	10/13	1400 HRS	–	✓	Trip Blank	5	1	–	2	1	–	–	–	–	1
	10/13	1730 HRS	–	✓	Field Blank Water	2	–	–	–	–	–	–	–	2	–

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Steven W. Murphy	10/14/87 0700	James Angyal			
J. Angyal	10/14/87				

Received for Laboratory by: (Signature)	Date / Time	Remarks
	10/14/87 1915	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

0158

HZM LABORATORY

Full CLP + ICC

Town of Southampton
North Sea Landfill
ID# SHMP 8605

Page 1

Continuing Chain of Custody

Samples Received by Jim Padilla date 10/14/87 time 1815 HRS.

Signature Jim Padilla

No. of bottles received	client sample ID#	type	HZM lab no. x·BN x·AE x·PH
1	surface soil #20	amber glass 4oz	1 762617
1	surface soil #19	"	" 762618
1	surface soil #18	"	" 762619
1	surface soil #16	"	" 762620
1	surface soil #15	"	" 762621
1	surface soil #14	"	" 762622
1	surface soil #13	"	" 762623
1	surface soil #12	"	" 762624
1	surface soil #11	"	" 762625
2	Field Blank	2 I	762653
2	Trip Blank	2 I	762654

Sample Relinquished by	Sample Received by	Date	Time	Bottle Type	Reason
J. Padilla	L Barthman	10/15/87	1740 HRS	ALL	Storage / Analysis
L Barthman	Mark J. Gaudio	10/19/87	0900 HRS	762653 762654	Extraction / concen
Mark J. Gaudio	L Barthman	10/19/87	1600 HRS	762653 762654	storage
L Barthman	Glenn K Borkowski	10/20/87	1500	All vials	Analysis

0570

SAMPLE PREPARATION FOR ORGANIC PRIORITY POLLUTANT EXTRACTABLES

H2M LABS, INC.

Environmental and Industrial Analytical Laboratory
575 Broad Hollow Road, Melville, NY 11747-5076

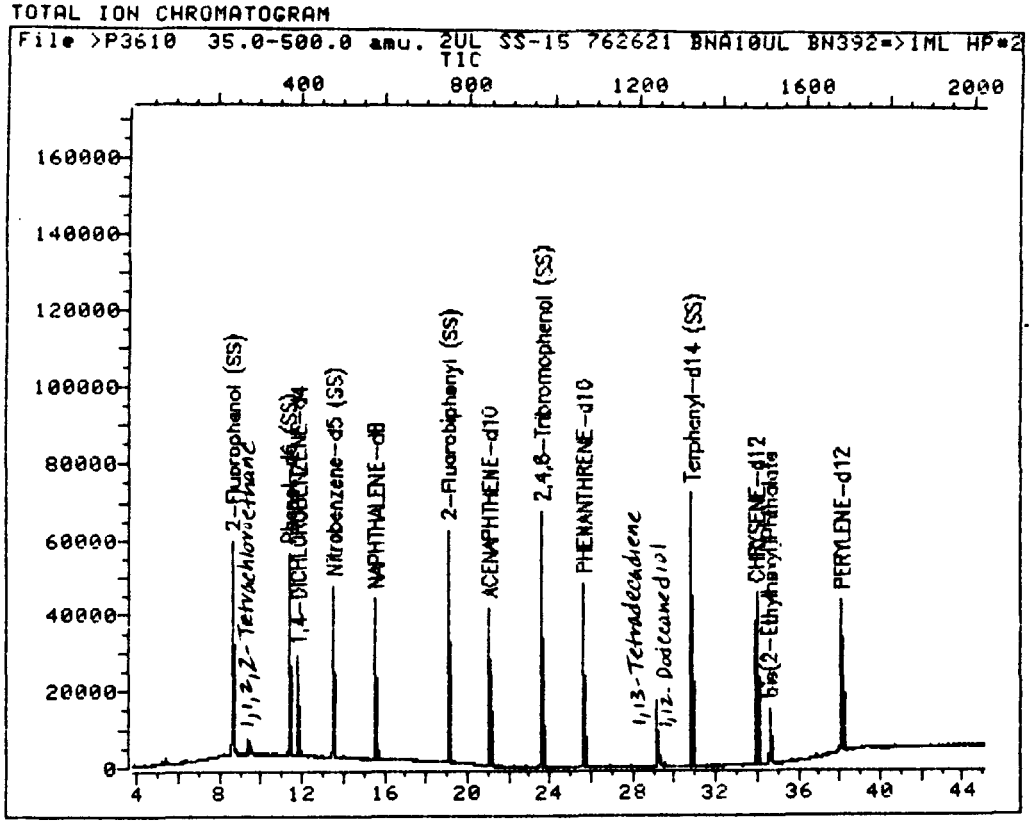
(516) 694-3040

LAB #	762617	762618	762619	762620	762621	762622	762623	762624
LAB # PP								
Client Client Sample #	TSH SS#20	TSH SS#19	TSH SS#18	TSH SS#16	TSH SS#15	TSH SS#14	TSH SS#13	TSH SS#12
SCANS	BNA	BNA	BNA	BNA	BNA	BNA	BNA	BNA
PROTOCOL	CLP	CLP	CLP	CLP	CLP	CLP	CLP	CLP
EXTRACTION DATE	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20
ANALYST	JAB	JAB	BB	JAB	JAB	JAB	JAB	JAB
METHOD	SOM	SOM	SOM	SOM	SOM	SOM	SOM	SOM
SAMPLE VOLUME (g)	25.0967	25.0754	25.0019	25.0848	25.0259	25.0690	25.0532	25.0053
SURROGATE NUMBER/VOLUME	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each
MATRIX SPIKE NUMBER/VOLUME								
BN EXTRACT SPLIT	N	N	N	N	N	N	N	N
CONCENTRATED DATE/INITIALS BN/AE	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB
CONCENTRATION VOLUME BN	—	—	—	—	—	—	—	—
AE	—	—	—	—	—	—	—	—
(SOIL) BNA	5ml	1ml	1ml	5ml	1ml	5ml	5ml	5ml
PP CONCENTRATED DATE/ANALYST								
PP CONCENTRATION VOLUME								
ALUMINA CLEANED								
Bio-Bead Cleaned	BB			BB		BB	BB	BB
REMARKS								

Semi-Volatile BNA

A	date	direct Inj.	RUN #	STD SOL # / client	µl	Sample # / Lab #	Comments	Internal Standard µl	Sol. #	Sol. Vol.	Tape	C.R.N.	TRACK	QUANT.	Reported	Date
GKB	10/29	MS	3609		2	SS-18	762619	10	BN 3[illegible]	1.0			B2			
			3610			SS-15	762621									
			3611			MW-5A	762952									
			3612			MW-5B	762955									
			3613			762911										
			3614			763340										
			3615			763341										
			3616			763343										
			3617			030/30	761657									
			3618			West Stockpile										
GKB	10/30	MS	DF 147		2	MS 44							B1			
			~~3619~~	3620		~~Method Blank 208~~	These are OK GKB	10	BN 3[illegible]	1.0			B1			
			~~3620~~	3621		~~MW6~~	~~762955~~									
			~~3621~~	3622		~~MW6 MS~~	~~762935~~									
			~~3622~~	3623		~~MW6 MSD~~	762935									
			~~3623~~	3624		~~MW2~~	762937									
			~~3624~~	3625		~~Field~~ Blank										
			~~3625~~	3626		Trip Blank										
			3626	3619		25 µg/ml HSL Std										
GKB	11/2	MS	DF 148		2	MS 44							B1			
GKB	11/3	MS	DF 149 3627		2	MS 44	50 ng DFTPP						B1			
GKB	11/3	MS	3627			25 µg/ml HSL Std		10	BN 3[illegible]	1.0			B2			
			3628			Method Blank 206										
			3629			Field Blank	762653									
			3630			Trip Blank	762654									
			3631			SS #20	762617									
			3632			SS #16	762620									
			3633			SS #14	762622									
			3634			SS #13	762623									
			3635			SS #12	762624									

TOTAL ION CHROMATOGRAM



Data File: >P3610::B2
Name: 2UL SS-15 762621 BNA
Misc: 10UL BN392=>1ML HP#2

Quant Output File: ^P3610::QT

BTL#67

Id File: !IDXPP::ME
Title: PRIORITY POLLUTANTS
Last Calibration: 871029 22:38

Operator ID: GLENN
Quant Time: 871030 05:56
Injected at: 871030 05:09

QUANT REPORT

Operator ID: GLENN
Output File: ^P3610::QT
Data File: >P3610::B2
Name: 2UL SS-15 762621 BNA
Misc: 10UL BN392=>1ML HP#2

Quant Rev: 6 Quant Time: 871030 05:56
Injected at: 871030 05:09
Dilution Factor: 1.00000

BTL#67

ID File: !IDXPP::ME
Title: PRIORITY POLLUTANTS
Last Calibration: 871029 22:38

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	11.81	395	9512	40.00	ug/mL	94
3)	2-Fluorophenol (SS)	8.63	239	36703	142.51	ug/mL	45
6)	Phenol-d6 (SS)	11.34	372	54726	146.61	ug/mL	99
14)	*NAPHTHALENE-d8	15.57	580	33832	40.00	ug/mL	57
15)	Nitrobenzene-d5 (SS)	13.54	480	35329	73.60	ug/mL	81
26)	*ACENAPHTHENE-d10	21.03	848	21094	40.00	ug/mL	88
30)	2-Fluorobiphenyl (SS)	19.08	752	43377	76.87	ug/mL	97
41)	2,4,6-Tribromophenol (SS)	23.56	972	17768	86.27	ug/mL	95
42)	*PHENANTHRENE-d10	25.59	1072	40422	40.00	ug/mL	64
52)	*CHRYSENE-d12	33.92	1481	45145	40.00	ug/mL	59
53)	Terphenyl-d14 (SS)	30.81	1328	71060	67.38	ug/mL	41
59)	bis(2-Ethylhexyl)Phthalate	34.58	1513	9196	7.34	ug/mL	89
61)	*PERYLENE-d12	38.06	1684	44322	40.00	ug/mL	77

* Compound is ISTD

MS data file header from : >P3610

Sample: 2UL SS-15 762621 BNA Operator: GLENN MS 10/30/87 5:09
Misc : 10UL BN392=>1ML HP#2 BTL#67
Sys. #: 2 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: EXTBNA Tuning file: MT8002 No. of extra records: 2
Source temp.: 0 Analyzer temp.: 280 Transfer line temp. : 0

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	4.0	7.3	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	.5	0.0

>P3610 2UL SS-15 762621 BNA10UL BN392=>1ML HP#2
35.01 500.0 CLP ADC TIC
Upslope: .20 Area Reject: 6491. Max Peaks: 3 Bunching: 1
Dnslope: 0.00 Results File IP3610 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	9.38	274	276	279	4006	31546	10655	20.36	13.928
2	29.16	1244	1247	1249	16774	52939	52334	100.00	68.408
3	29.22	1249	1250	1258	4887	15230	13514	25.82	17.665

Sum of corrected areas: 76503.

Summary of Unknowns PBM Library Search and Quantitation

Standard	Concentration	Area	Retention Time	Unknown Window
1	40.0	64913.	11.81	3.78 - 13.69
2	40.0	79763.	15.57	13.69 - 18.30
3	40.0	103217.	21.03	18.30 - 23.31
4	40.0	112657.	25.59	23.31 - 29.76
5	40.0	133435.	33.92	29.76 - 35.99
6	40.0	139776.	38.06	35.99 - 45.06

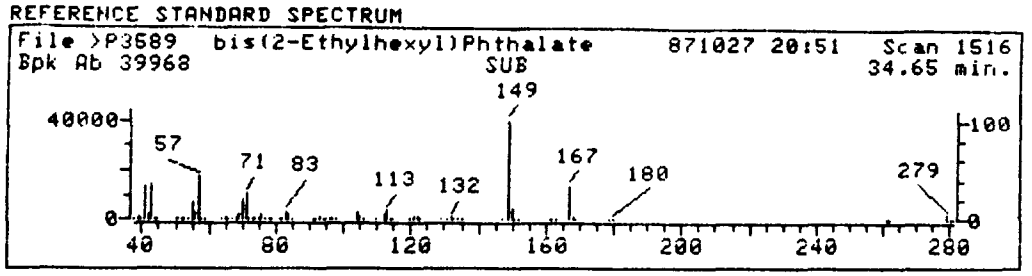
Dilution Factor (DF) = 1.00 Fractional Solids (FS) = 1.00
Amount Method (AM) = 0.00 Amount Used (AU) = 0.00

Correction Factor = ******** = (AM / AU) / (DF * FS)

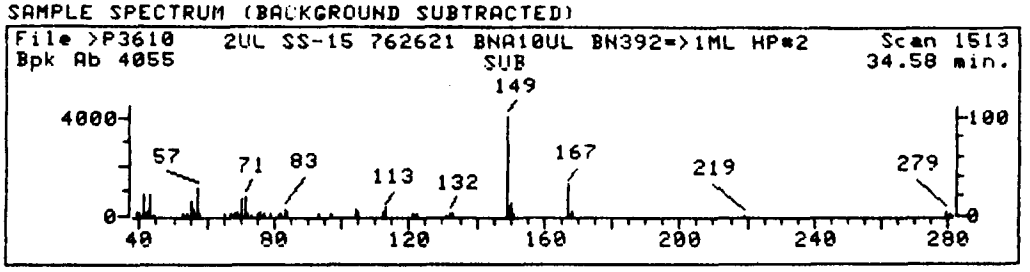
$$\text{Unknown Concentration} = \frac{\text{Conc Int Std}}{\text{Area Int Std}} * \text{Area Unk} * \text{Correction Factor}$$

12:23 PM FRI., 30 OCT., 1987

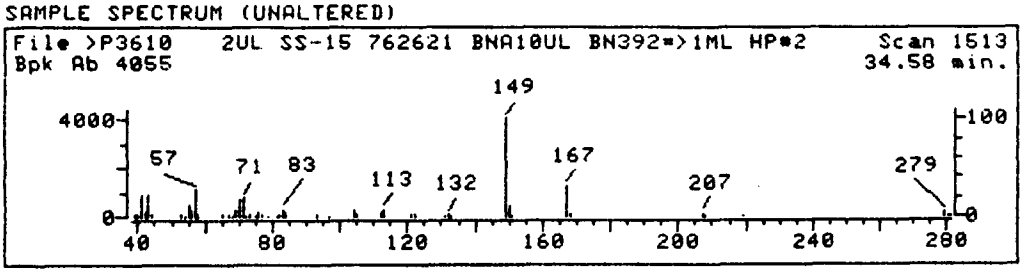
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

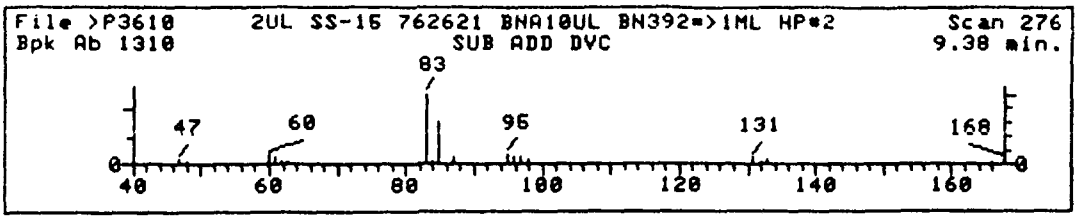


SAMPLE SPECTRUM (UNALTERED)



Data File: >P3610::B2 Quant Output File: ^P3610::QT
Name: 2UL SS-15 762621 BNA
Misc: 10UL BN392=>1ML HP#2 BTL#67
Quant Time: 871030 05:56 Quant ID File: !IDXPP::ME
Injected at: 871030 05:09 Last Calibration: 871029 22:38

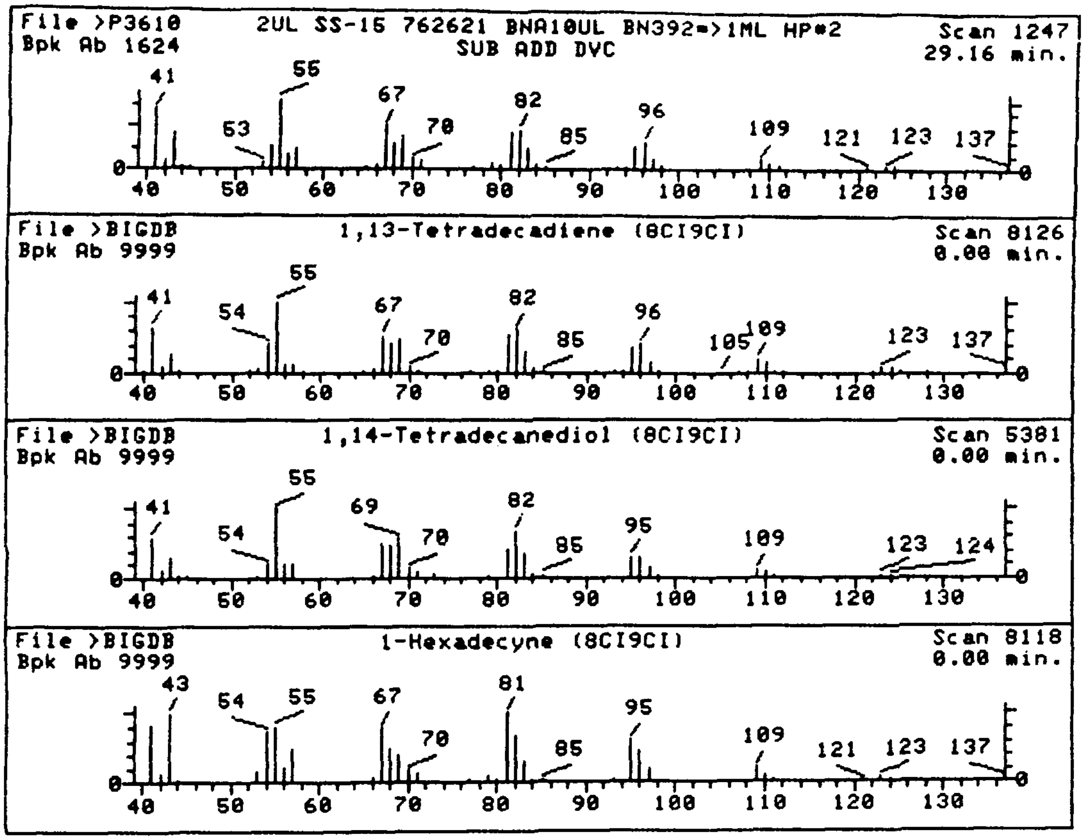
Compound No: 59
Compound Name: bis(2-Ethylhexyl)Phthalate
Scan Number: 1513
Retention Time: 34.58 min.
Quant Ion: 149.0
Area: 9196
Concentration: 7.34 ug/mL
q-value: 89



. Unknown #,1
Area = 10655.00 Tentative Concentration is 7.00

Sample file: >P3610 Spectrum #: 276

No data base entries were retrieved.

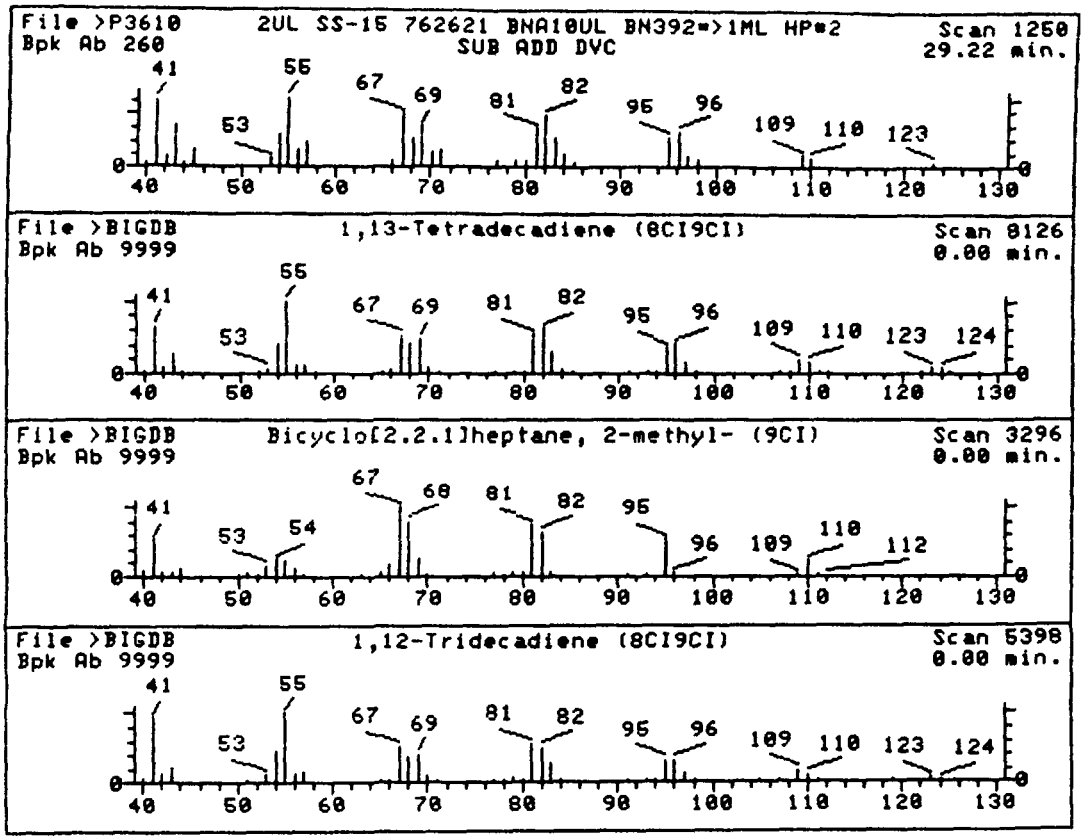


. Unknown #,2
Area = 52334.00 Tentative Concentration is 19.00

1. 1,13-Tetradecadiene (8CI9CI) 194 C14H26
2. 1,14-Tetradecanediol (8CI9CI) 230 C14H30O2
3. 1-Hexadecyne (8CI9CI) 222 C16H30
4. 1,12-Tridecadiene (8CI9CI) 180 C13H24
5. Bicyclo[2.2.1]heptane, 2-methyl- (9CI) 110 C8H14
6. Bicyclo[4.1.0]heptane, 2-methyl- (9CI) 110 C8H14
7. Cyclohexane, methylene- (8CI9CI) 96 C7H12

Sample file: >P3610 Spectrum #: 1247
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	86	21964498	8126	"BIGDB	102	26	2	0	77	2	60	36
2.	70	19812647	5381	"BIGDB	96	47	1	0	82	18	32	56



. Unknown #,3
Area = 13514.00 Tentative Concentration is 5.00

1.	1,13-Tetradecadiene (8CI9CI)	194 C14H26
2.	Bicyclo[2.2.1]heptane, 2-methyl- (9CI)	110 C8H14
3.	1,12-Tridecadiene (8CI9CI)	180 C13H24
4.	Bicyclo[4.1.0]heptane, 2-methyl- (9CI)	110 C8H14
5.	1,10-Decanediol (8CI9CI)	174 C10H22O2
6.	1,14-Tetradecanediol (8CI9CI)	230 C14H30O2
7.	3-Hexadecyne (9CI)	222 C16H30

Sample file: >P3610 Spectrum #: 1250
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	53	21964498	8126	"BIGDB	88	40	2	0	97	22	22	25

8515

H2M LABORATORY

III. 2. Reporting Package for
I.D.# Surface Soil #14

CHAIN OF CUSTODY RECORD

PROJ. NO.: SHMP1605 | PROJECT NAME: RI/FS North Sea Landfill

SAMPLERS (Signature): J. Angyal

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Bottle B (HNO3)	Bottle F (unpres)	Bottle I	Bottle I (D) H2SO4	Bottle K 1 gt Glass	Bottle K 8 oz Glass	Bottle K Plastic 1 Gallon Jug	Bottle H (NaOH)	REMARKS
SB#17	10/14	12:15 pm	✓		SURFACE SOIL #17	1	-	-	-	-	1	-	USE	For MS/MSD Sample	
SB#20	10/14	2:15 pm	✓		SURFACE SOIL #20	3	-	1	-	-	-	1	1	-	- Split w/ Ensan
SB#19	10/14	2:35 pm	✓		SURFACE SOIL #19	3	-	1	-	-	-	1	1	-	-
SB#18	10/14	1:35 pm	✓		SURFACE SOIL #18	3	-	1	-	-	-	1	1	-	- Split w/ Ensan
SB#16	10/14	10:35 am	✓		SURFACE SOIL #16	3	-	1	-	-	-	1	1	-	-
SB#15	10/14	11:30 am	✓		SURFACE SOIL #15	3	-	1	-	-	-	1	1	-	- Split w/ Ensan
SB#14	10/14	10:15 am	✓		SURFACE SOIL #14	3	-	1	-	-	-	1	1	-	-
SB#13	10/14	10:50 am	✓		SURFACE SOIL #13	3	-	1	-	-	-	1	1	-	-
SB#12	10/14	11:30 am	✓		SURFACE SOIL #12	3	-	1	-	-	-	2		-	1 clear / 1 Brown
SB#11	10/14	9:15 am	✓		SURFACE SOIL #11	3	-	1	-	-	-	2		-	1 clear / 1 Brown
	10/14	8:30 am		✓	Field Blank	5	1	-	2	1	-	-	-	-	1 - filled 1st thing
	10/13	1400 HRS	-	✓	Trip Blank	5	1	-	2	1	-	-	-	-	1
	10/13	1430 HRS	-	✓	Field Blank Water	2	-	-	-	-	-	-	-	2	-

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Steven W. Murphy	10/14/87 0700	James Angyal			
J. Angyal	10/14/87				

Received for Laboratory by: (Signature)	Date / Time	Remarks
	10/14/87 1815	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

0210

HZM LABORATORY

Full CLP + TCC

Town of Southampton
North Sea Land fill
ID# SHMP 8605

Page 1

Continuing Chain of Custody

Samples Received by Jim Padilla date 10/14/87 time 1815 HRS.

Signature

No. of bottles received	client sample ID's	type	HZM lab no. X·BN X·AE X·PH
1	surface soil #20	amber glass 40z 1	762617
1	surface soil #19	" "	762618
1	surface soil #18	" "	762619
1	surface soil #16	" "	762620
1	surface soil #15	" "	762621
1	surface soil #14	" "	762622
1	surface soil #13	" "	762623
1	surface soil #12	" "	762624
1	surface soil #11	" "	762625
2	Field Blank	2 I	762653
2	Trip Blank	2 I	762654

Sample Relinquished by	Sample Received by	Date	Time	Bottle Type	Reason
J. Padilla	L.H. Barthman	10/15/87	1740 HRS	ALL	Storage / Analysis
L.H. Barthman	Mark J. Gardella	10/19/87	0900 HRS	762653 762654	Extraction concen
Mark J. Gardella	L.H. Barthman	10/19/87	1600 HRS	762653 762654	storage
L.H. Barthman	Glenn K. Bartholomew	10/20/87	1500	All vials	Analysis

0171

SAMPLE PREPARATION FOR ORGANIC PRIORITY POLLUTANT EXTRACTABLES

H2M LABS, INC.

Environmental and Industrial Analytical Laboratory
575 Broad Hollow Road, Melville, NY 11747-5076

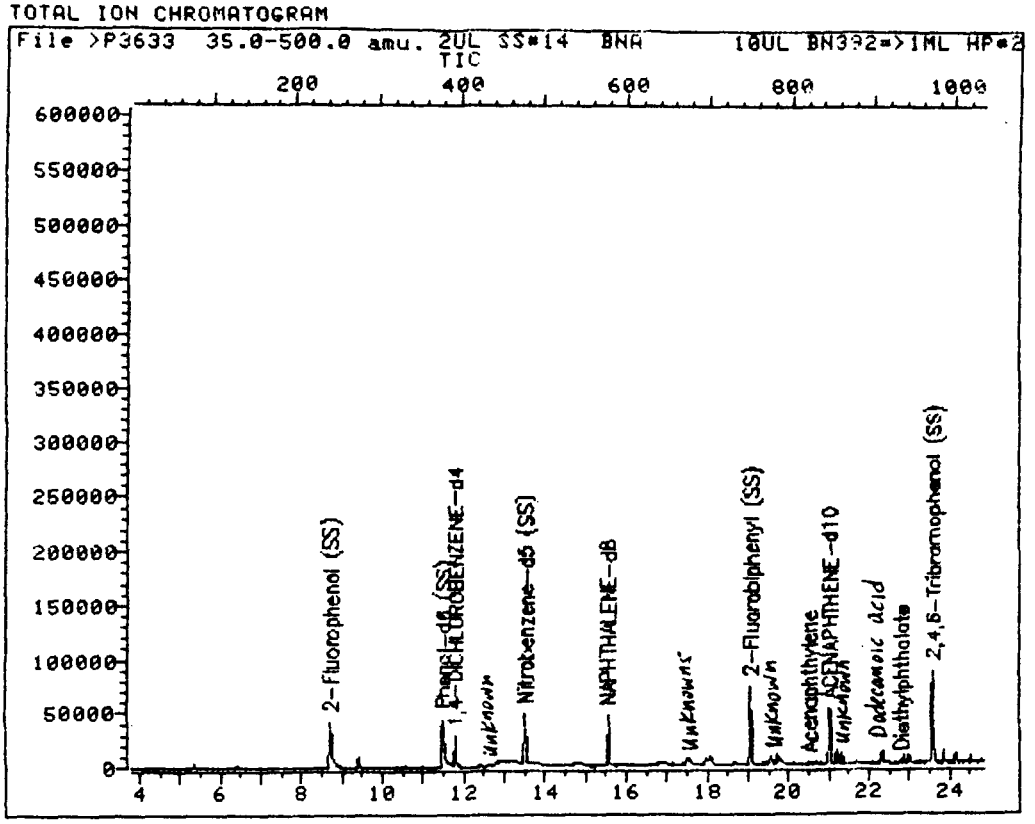
(516) 694-3040

LAB #	762617	762618	762619	762620	762621	762622	762623	762624
LAB # PP								
Client Client Sample #	TSH SS#20	TSH SS#19	TSH SS#18	TSH SS#16	TSH SS#15	TSH SS#14	TSH SS#13	TSH SS#12
SCANS	BNA	BNA	BNA	BNA	BNA	BNA	BNA	BNA
PROTOCOL	CLP	CLP	CLP	CLP	CLP	CLP	CLP	CLP
EXTRACTION DATE	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20
ANALYST	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB
METHOD	SOM	SOM	SOM	SOM	SOM	SOM	SOM	SOM
SAMPLE VOLUME (g)	25.0967	25.0754	25.0019	25.0848	25.0259	25.0690	25.0532	25.0058
SURROGATE NUMBER/VOLUME	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each
MATRIX SPIKE NUMBER/VOLUME								
BN EXTRACT SPLIT	N	N	N	N	N	N	N	N
CONCENTRATED DATE/INITIALS BN/AE	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB
CONCENTRATION VOLUME BN	—	—	—	—	—	—	—	—
CONCENTRATION VOLUME AE	—	—	—	—	—	—	—	—
(SOIL) BNA	5ml	1ml	1ml	5ml	1ml	5ml	5ml	5ml
PP CONCENTRATED DATE/ANALYST								
PP CONCENTRATION VOLUME								
ALUMINA CLEANED								
Bio-Bead Cleaned	BB			BB		BB	BB	BB
REMARKS								0172

Semi-Volatile BNA

Analyst	date	direct Inj.	RUN #	surrogate #	Client #	Sample # / Lab #	Comments	Extraction Standard #	Extraction Standard Sol. #	Extraction Standard Sol. Vol.	Storage Info. Tape	Storage Info. CRN.	Storage Info. Track	QUANT.	Reported Date
GKB	10/29	MS	3609		2	SS-18	762619	10	BN 3521	1.0			B2		
			3610			SS-15	762621								
			3611			MW-5A	762952								
			3612			MW-5B	762955								
			3613			762911									
			3614			763340									
			3615			763341									
			3616			763343									
			3617			030/30	761657								
↓	↓	↓	3618		↓	West Stockpile		↓	↓	↓		↓			
GKB	10/30	MS	DF 147		2	MS 44							B1		
			3619	3620		~~Method Blank 206~~	These are OK GKB	10	BN 3521	1.0			B1		
			3620	3621		~~MW6~~	~~762955~~								
			3621	3622		~~MW6 MS~~	~~762955~~								
			3622	3623		~~MW6 MSD~~	762955								
			3623	3624		~~MW2~~	762937								
			3624	3625		~~Field~~ Blank									
			3625	3626		Trip Blank									
↓	↓	↓	3626	3627	↓	25 mg/ml HSL Std		↓	↓	↓		↓			
GKB	11/2	MS	DF 147		2	MS 44							B1		
GKB	11/3	MS	DF 149 3627		2	MS 44	50 mg DFTPP						B1		
GKB	11/3	MS	3627			25 mg/ml HSL Std		10	BN 3521	1.0			B2		
			3628			Method Blank 206									
			3629			Field Blank	762653								
			3630			Trip Blank	762654								
			3631			SS #20	762617								
			3632			SS #16	762620								
			3633			SS #14	762622								
			3634			SS #13	762623								
↓	↓	↓	3635		↓	SS #12	762624	↓	↓	↓		↓			

TOTAL ION CHROMATOGRAM



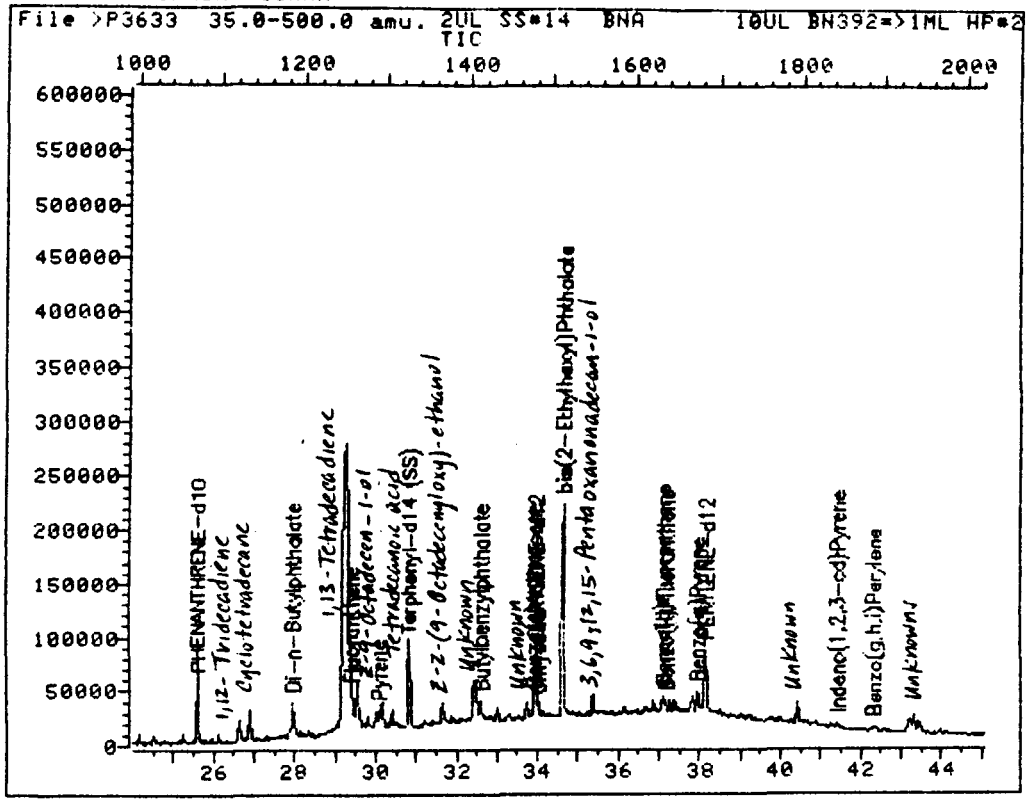
Data File: >P3633::B2 Quant Output File: ^P3633::QT
Name: 2UL SS#14 BNA
Misc: 10UL BN392=>1ML HP#2 762622 BTL#67

Id File: !IDXPP::ME
Title: PRIORITY POLLUTANTS
Last Calibration: 871103 12:07

Operator ID: GLENN
Quant Time: 871103 17:32
Injected at: 871103 16:45

TIC page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >P3633::B2 Quant Output File: ^P3633::QT
Name: 2UL SS#14 BNA
Misc: 10UL BN392=>1ML HP#2 762622 BTL#67

Id File: !IDXPP::ME
Title: PRIORITY POLLUTANTS
Last Calibration: 871103 12:07

Operator ID: GLENN
Quant Time: 871103 17:32
Injected at: 871103 16:45

TIC page 2 of 2

QUANT REPORT

Operator ID: GLENN Quant Rev: 6 Quant Time: 871103 17:32
Output File: ^P3633::QT Injected at: 871103 16:45
Data File: >P3633::B2 Dilution Factor: 1.00000
Name: 2UL SS#14 BNA
Misc: 10UL BN392=>1ML HP#2 762622 BTL#67

ID File: !IDXPP::ME
Title: PRIORITY POLLUTANTS
Last Calibration: 871103 12:07

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	11.79	394	11934	40.00	ug/mL	91
3)	2-Fluorophenol (SS)	8.71	243	39697	123.11	ug/mL	64
6)	Phenol-d6 (SS)	11.48	379	63890	156.13	ug/mL	98
14)	*NAPHTHALENE-d8	15.56	579	43953	40.00	ug/mL	57
15)	Nitrobenzene-d5 (SS)	13.52	479	33073	57.20	ug/mL	81
26)	*ACENAPHTHENE-d10	21.02	847	31560	40.00	ug/mL	92
30)	2-Fluorobiphenyl (SS)	19.07	751	56721	68.94	ug/mL	99
32)	Acenaphthylene	20.51	822	2139	1.49	ug/mL	35
38)	Diethylphthalate	22.80	934	1476	1.16	ug/mL	93
41)	2,4,6-Tribromophenol (SS)	23.59	973	36736	143.12	ug/mL	88
42)	*PHENANTHRENE-d10	25.59	1071	70141	40.00	ug/mL	63
50)	Di-n-Butylphthalate	27.94	1186	24274	8.39	ug/mL	85
51)	Fluoranthene	29.40	1257	6567	3.39	ug/mL	72
52)	*CHRYSENE-d12	33.97	1480	83087	40.00	ug/mL	55
53)	Terphenyl-d14 (SS)	30.83	1327	108527	49.66	ug/mL	38
55)	Pyrene	30.07	1290	10248	3.26	ug/mL	51
56)	Butylbenzylphthalate	32.59	1413	7412	4.13	ug/mL	97
58)	Benzo(a)Anthracene	33.91	1477	5681	2.28	ug/mL	81
59)	bis(2-Ethylhexyl)Phthalate	34.64	1513	242317	88.23	ug/mL	89
60)	Chrysene	34.01	1482	9342	3.58	ug/mL	97
61)	*PERYLENE-d12	38.16	1684	84755	40.00	ug/mL	76
63)	Benzo(b)Fluoranthene	37.09	1632	17817M	5.98	ug/mL	96
64)	Benzo(k)Fluoranthene	37.15	1635	7613M	2.56	ug/mL	95
65)	Benzo(a)Pyrene	37.93	1673	7389	2.54	ug/mL	94
66)	Indeno(1,2,3-cd)Pyrene	41.40	1842	5688	1.71	ug/mL	84
68)	Benzo(g,h,i)Perylene	42.30	1886	4111	1.36	ug/mL	89

* Compound is ISTD

MS data file header from : >P3633

Sample: 2UL SS#14 BNA Operator: GLENN MS 11/03/87 16:45
Misc : 10UL BN392=>1ML HP#2 762622 BTL#67
Sys. #: 2 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: EXTBNA Tuning file: MT8002 No. of extra records: 2
Source temp.: 0 Analyzer temp.: 280 Transfer line temp. : 0

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	4.0	7.3	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	.5	0.0

>P3633 2UL SS#14 BNA 10UL BN392=>1ML HP#2 762622
35.01 500.0 CLP ADC TIC
Upslope: .20 Area Reject: 15649. Max Peaks: 20 Bunching: 1
Dnslope: 0.00 Results File IP3633 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	12.93	436	450	451	4725	71708	49907	3.19	1.785
2	17.52	671	675	687	6446	79364	56046	3.58	2.004
3	17.99	693	698	700	6879	48955	38585	2.46	1.380
4	18.07	700	702	707	8615	52310	38632	2.47	1.381
5	19.74	780	784	788	9703	58592	41203	2.63	1.473
6	21.21	853	856	859	11252	42845	32669	2.09	1.168
7	22.35	904	912	914	12229	72190	49229	3.14	1.760
8	26.64	1117	1122	1129	18617	136743	79713	5.09	2.850
9	26.90	1132	1135	1140	28063	151318	96990	6.19	3.468
10	29.27	1241	1251	1252	261055	1807640	1566490	100.00	56.013
11	29.78	1274	1276	1283	10975	218957	35318	2.25	1.263
12	30.40	1303	1306	1309	15395	171783	42291	2.70	1.512
13	31.65	1364	1367	1372	18866	292331	94720	6.05	3.387
14	32.43	1400	1405	1407	36683	383588	181671	11.60	6.496
15	33.74	1465	1469	1471	12674	235250	46773	2.99	1.672
16	35.36	1545	1548	1552	18983	309388	71275	4.55	2.549
17	40.41	1791	1794	1800	19432	287805	68957	4.40	2.466
18	43.20	1925	1930	1932	12643	164838	69225	4.42	2.475
19	43.30	1932	1935	1938	16630	153372	73463	4.69	2.627
20	43.43	1938	1941	1950	10965	219940	63512	4.05	2.271

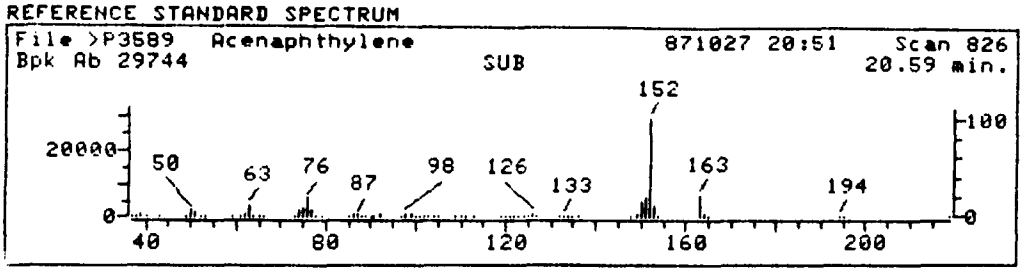
Sum of corrected areas: 2796669.

Summary of Unknowns PBM Library Search and Quantitation

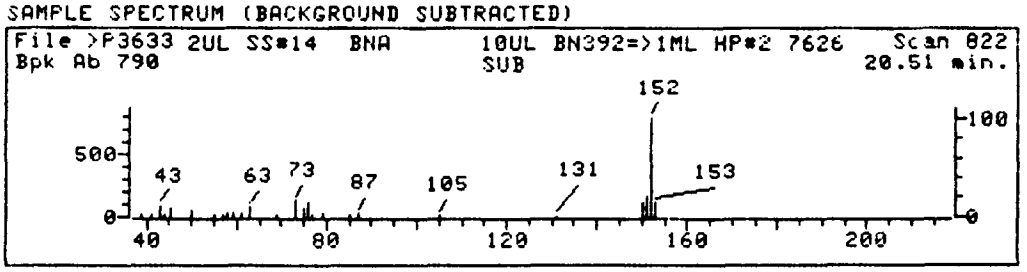
Standard	Concentration	Area	Retention Time	Unknown Window
1	40.0	190294.	11.79	3.79 - 13.68
2	40.0	192662.	15.56	13.68 - 18.29
3	40.0	156494.	21.03	18.29 - 23.31
4	40.0	190698.	25.59	23.31 - 29.78
5	40.0	284866.	33.97	29.78 - 36.06
6	40.0	249025.	38.16	36.06 - 45.06

0177

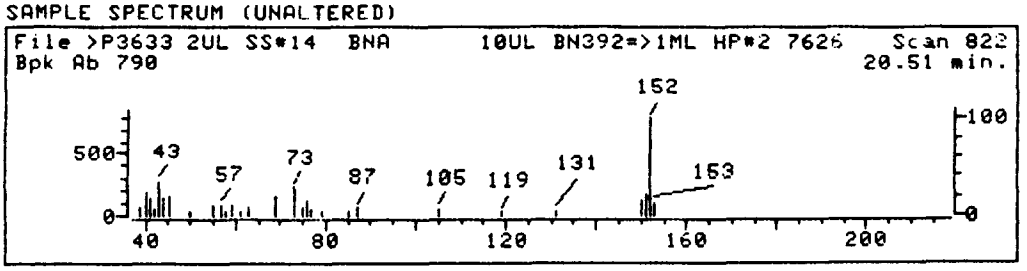
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



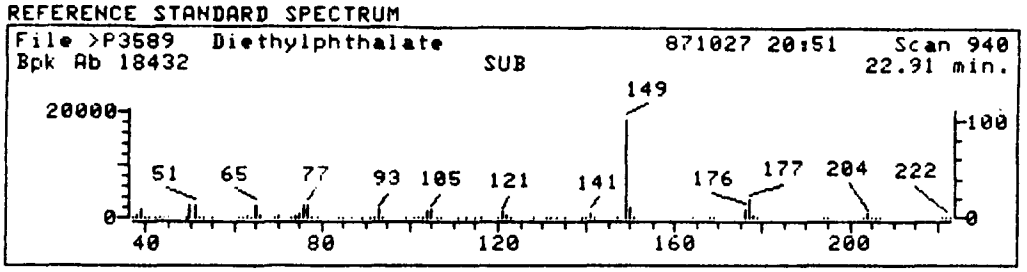
SAMPLE SPECTRUM (UNALTERED)



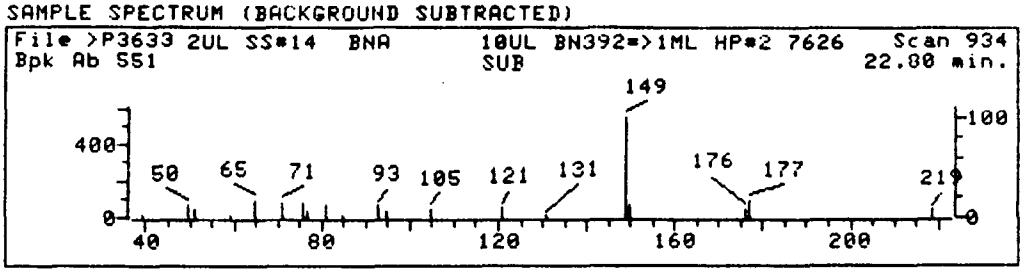
Data File: >P3633::B2 Quant Output File: ^P3633::QT
Name: 2UL SS#14 BNA
Misc: 10UL BN392=>1ML HP#2 762622 BTL#67
Quant Time: 871103 17:32 Quant ID File: !IDXPP::ME
Injected at: 871103 16:45 Last Calibration: 871103 12:07

Compound No: 32
Compound Name: Acenaphthylene
Scan Number: 822
Retention Time: 20.51 min.
Quant Ion: 152.0
Area: 2139
Concentration: 1.49 ug/mL
q-value: 35

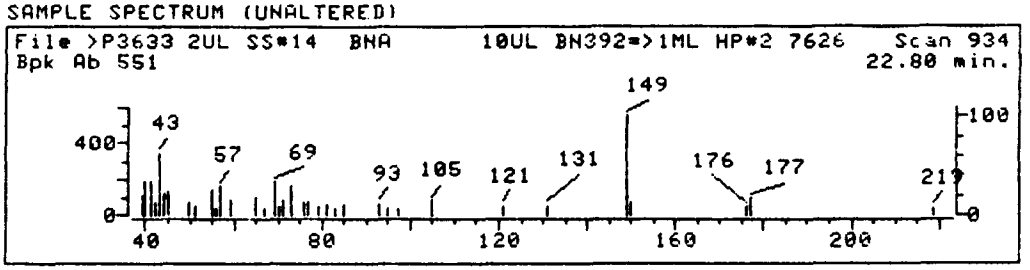
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



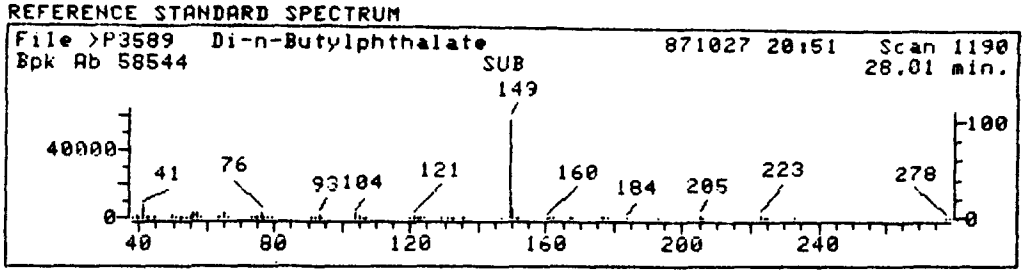
SAMPLE SPECTRUM (UNALTERED)



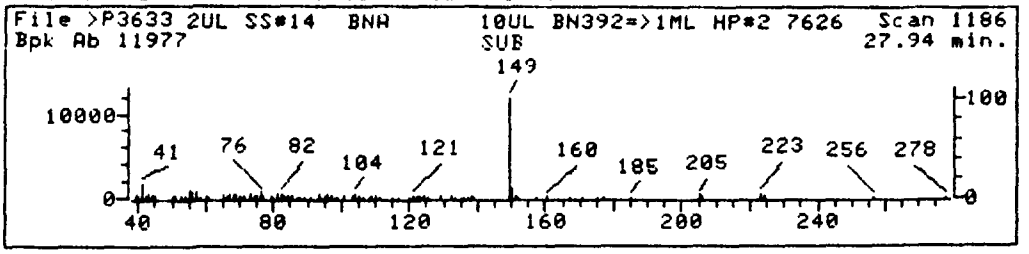
Data File: >P3633::B2 Quant Output File: ^P3633::QT
Name: 2UL SS#14 BNA
Misc: 10UL BN392=>1ML HP#2 762622 BTL#67
Quant Time: 871103 17:32 Quant ID File: !IDXPP::ME
Injected at: 871103 16:45 Last Calibration: 871103 12:07

Compound No: 38
Compound Name: Diethylphthalate
Scan Number: 934
Retention Time: 22.80 min.
Quant Ion: 149.0
Area: 1476
Concentration: 1.16 ug/mL
q-value: 93

REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



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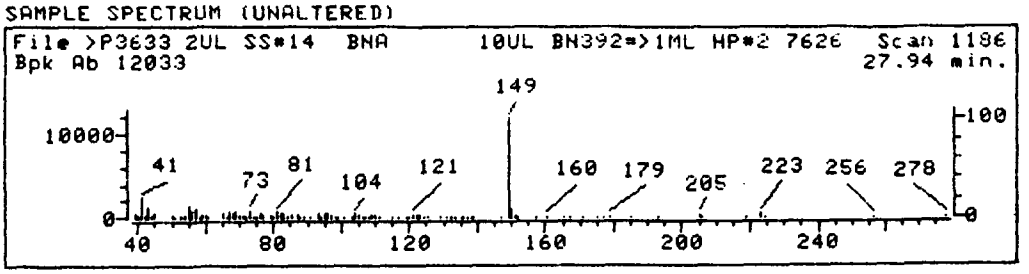
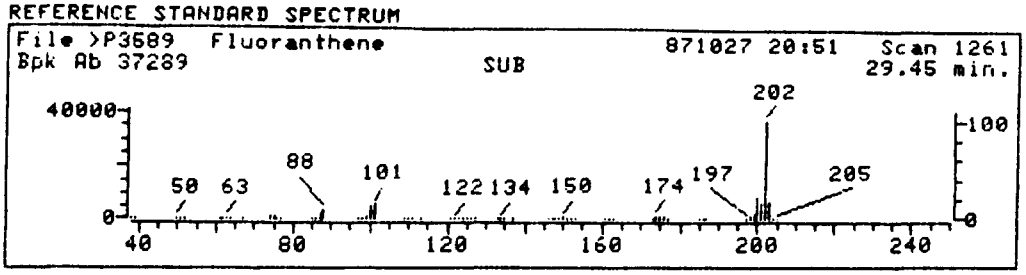


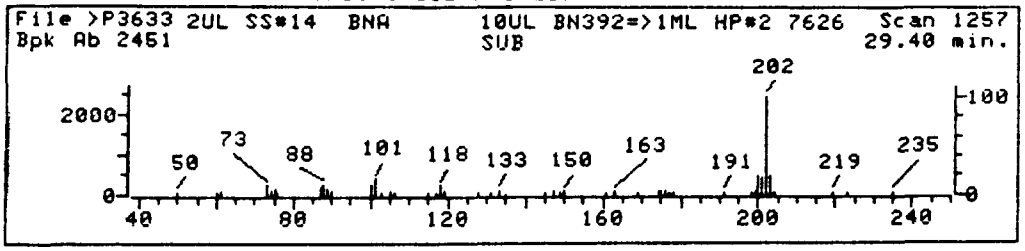
Data File: >P3633::B2 Quant Output File: ^P3633::QT
Name: 2UL SS#14 BNA
Misc: 10UL BN392=>1ML HP#2 762622 BTL#67
Quant Time: 871103 17:32 Quant ID File: !IDXPP::ME
Injected at: 871103 16:45 Last Calibration: 871103 12:07

Compound No: 50
Compound Name: Di-n-Butylphthalate
Scan Number: 1186
Retention Time: 27.94 min.
Quant Ion: 149.0
Area: 24274
Concentration: 8.39 ug/mL
q-value: 85

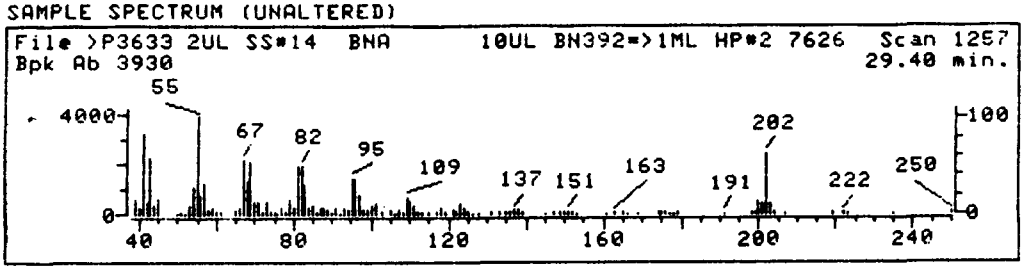
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



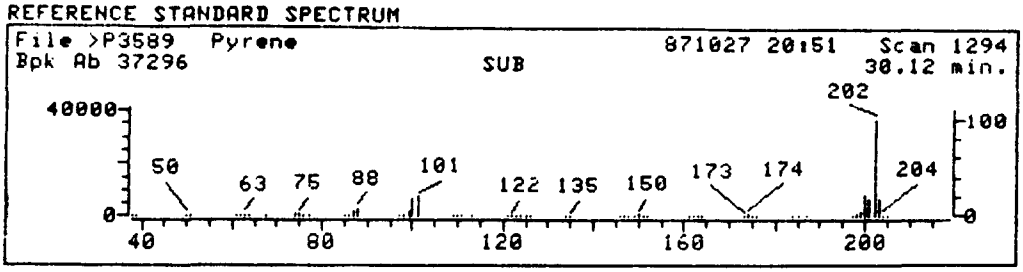
SAMPLE SPECTRUM (UNALTERED)



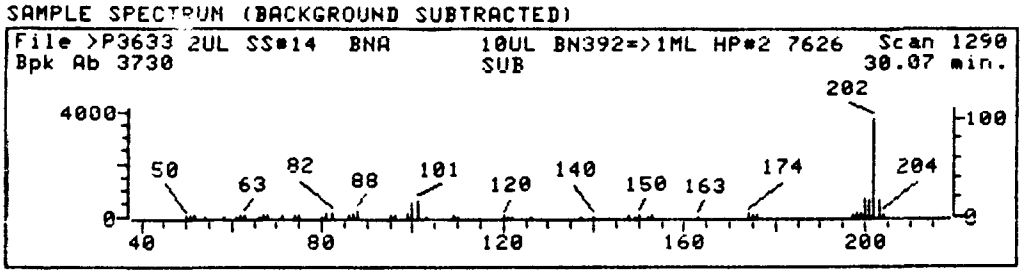
Data File: >P3633::B2 Quant Output File: ^P3633::QT
Name: 2UL SS#14 BNA
Misc: 10UL BN392=>1ML HP#2 762622 BTL#67
Quant Time: 871103 17:32 Quant ID File: !IDXPP::ME
Injected at: 871103 16:45 Last Calibration: 871103 12:07

Compound No: 51
Compound Name: Fluoranthene
Scan Number: 1257
Retention Time: 29.40 min.
Quant Ion: 202.0
Area: 6567
Concentration: 3.39 ug/mL
q-value: 72

REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



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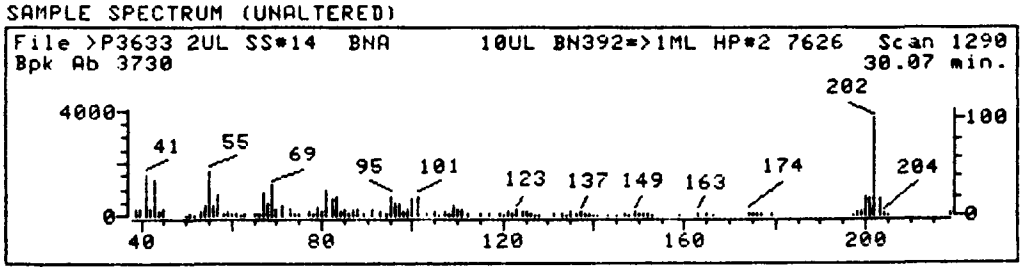
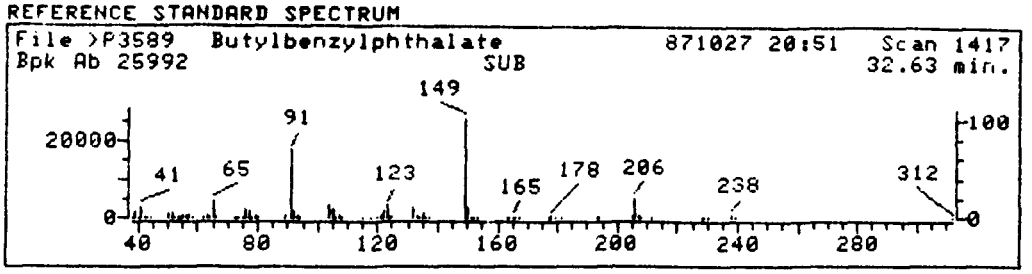


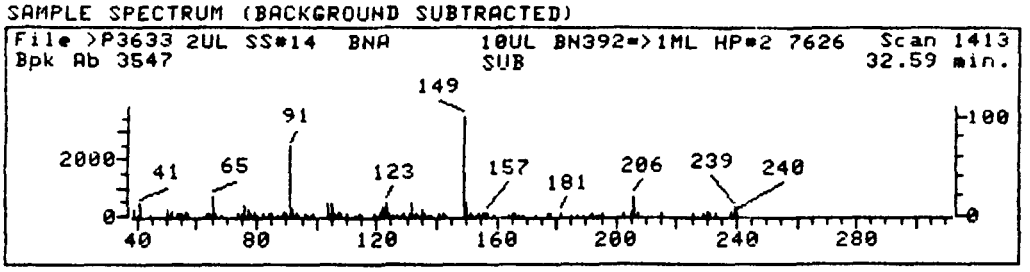
Data File: >P3633::B2 Quant Output File: ^P3633::QT
Name: 2UL SS#14 BNA
Misc: 10UL BN392=>1ML HP#2 762622 BTL#67
Quant Time: 871103 17:32 Quant ID File: !IDXPP::ME
Injected at: 871103 16:45 Last Calibration: 871103 12:07

Compound No: 55
Compound Name: Pyrene
Scan Number: 1290
Retention Time: 30.07 min.
Quant Ion: 202.0
Area: 10248
Concentration: 3.26 ug/mL
q-value: 51

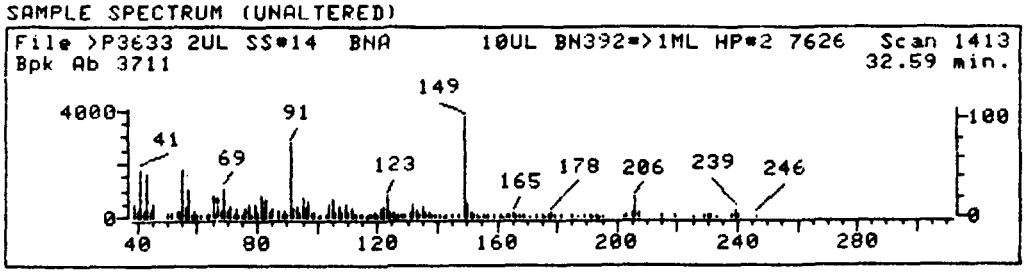
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



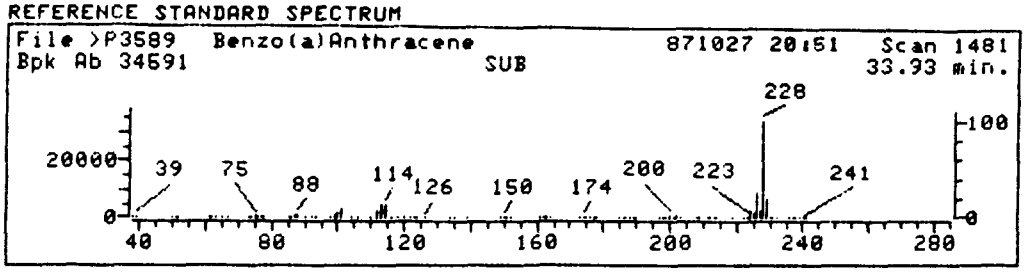
SAMPLE SPECTRUM (UNALTERED)



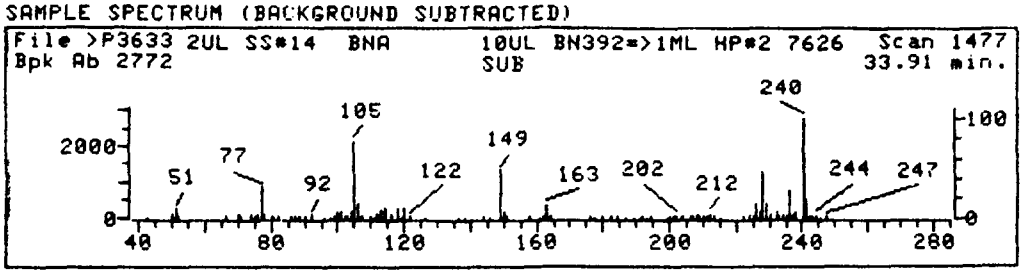
Data File: >P3633::B2 Quant Output File: ^P3633::QT
Name: 2UL SS#14 BNA
Misc: 10UL BN392=>1ML HP#2 762622 BTL#67
Quant Time: 871103 17:32 Quant ID File: !IDXPP::ME
Injected at: 871103 16:45 Last Calibration: 871103 12:07

Compound No: 56
Compound Name: Butylbenzylphthalate
Scan Number: 1413
Retention Time: 32.59 min.
Quant Ion: 149.0
Area: 7412
Concentration: 4.13 ug/mL
q-value: 97

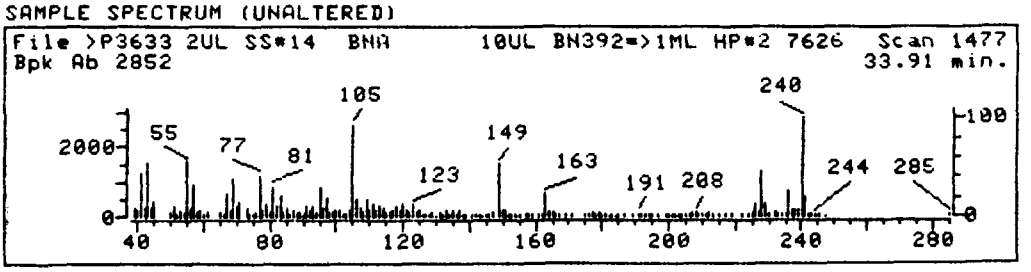
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



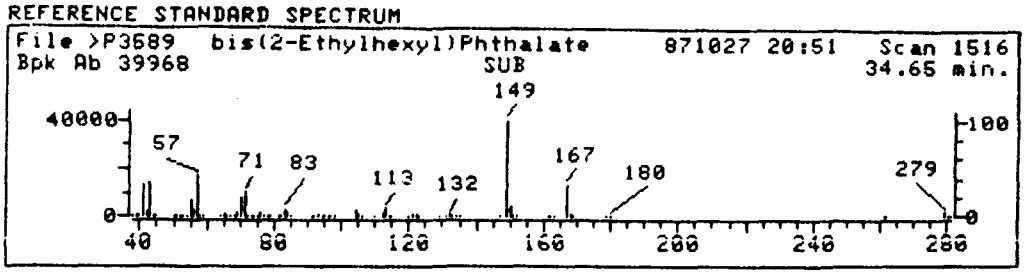
SAMPLE SPECTRUM (UNALTERED)



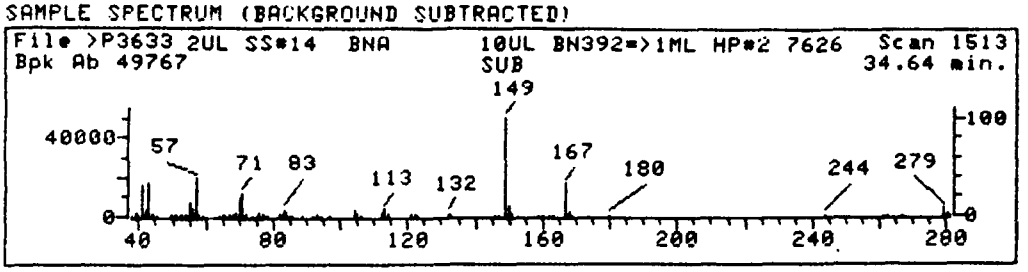
Data File: >P3633::B2 Quant Output File: ^P3633::QT
Name: 2UL SS#14 BNA
Misc: 10UL BN392=>1ML HP#2 762622 BTL#67
Quant Time: 871103 17:32 Quant ID File: !IDXPP::ME
Injected at: 871103 16:45 Last Calibration: 871103 12:07

Compound No: 58
Compound Name: Benzo(a)Anthracene
Scan Number: 1477
Retention Time: 33.91 min.
Quant Ion: 228.0
Area: 5681
Concentration: 2.28 ug/mL
q-value: 81

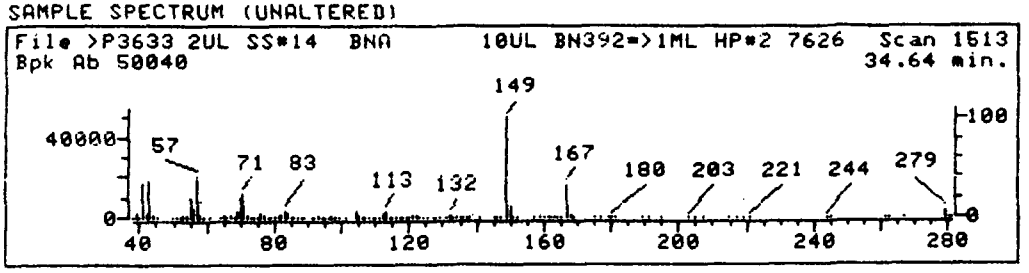
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



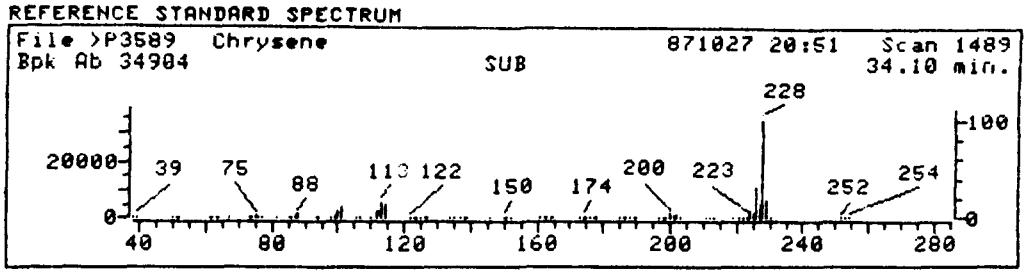
SAMPLE SPECTRUM (UNALTERED)



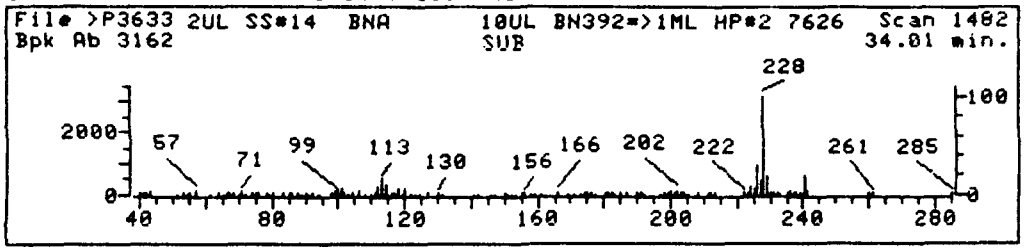
Data File: >P3633::B2 Quant Output File: ^P3633::QT
Name: 2UL SS#14 BNA
Misc: 10UL BN392=>1ML HP#2 762622 BTL#67
Quant Time: 871103 17:32 Quant ID File: !IDXPP::ME
Injected at: 871103 16:45 Last Calibration: 871103 12:07

Compound No: 59
Compound Name: bis(2-Ethylhexyl)Phthalate
Scan Number: 1513
Retention Time: 34.64 min.
Quant Ion: 149.0
Area: 242317
Concentration: 88.23 ug/mL
q-value: 89

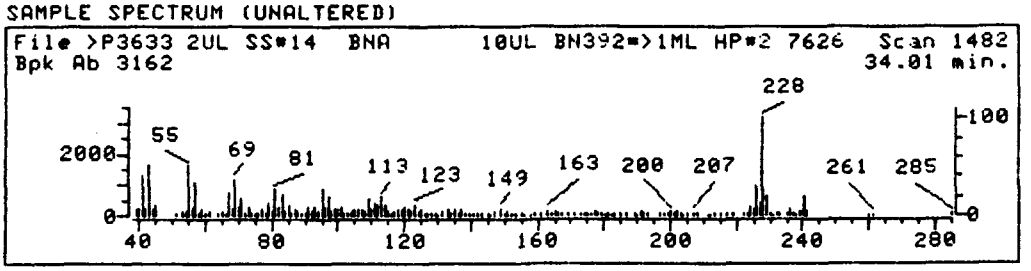
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



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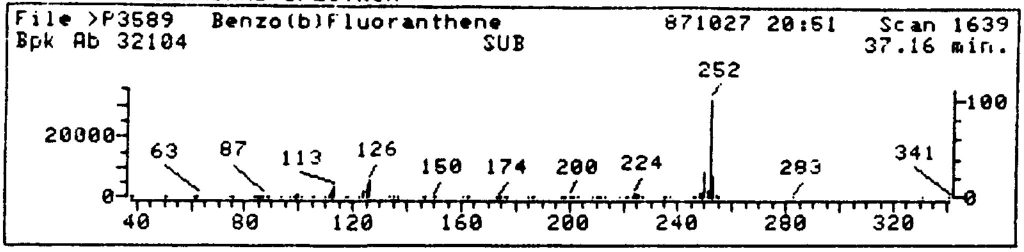
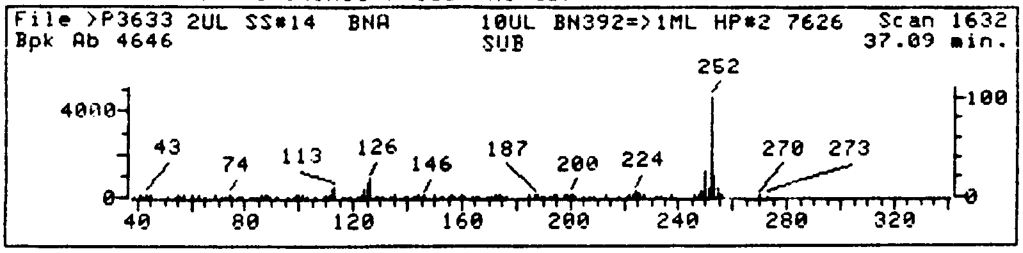
Name: 2UL SS#14 BNA
Misc: 10UL BN392=>1ML HP#2 762622 BTL#67
Quant Time: 871103 17:32 Quant ID File: !IDXPP::ME
Injected at: 871103 16:45 Last Calibration: 871103 12:07

Compound No: 60
Compound Name: Chrysene
Scan Number: 1482
Retention Time: 34.01 min.
Quant Ion: 228.0
Area: 9342
Concentration: 3.58 ug/mL
q-value: 97

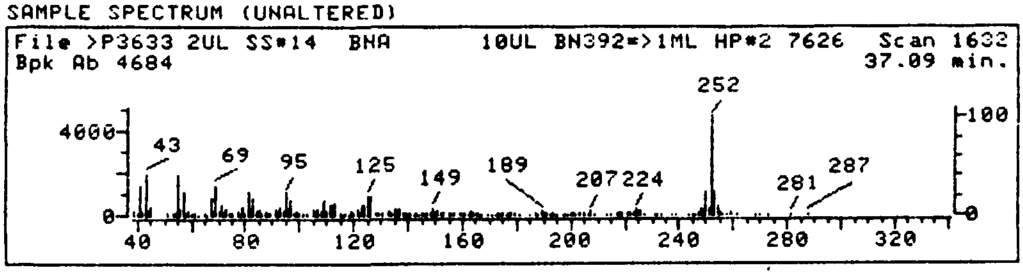
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >P3633::B2 Quant Output File: ^P3633::QT
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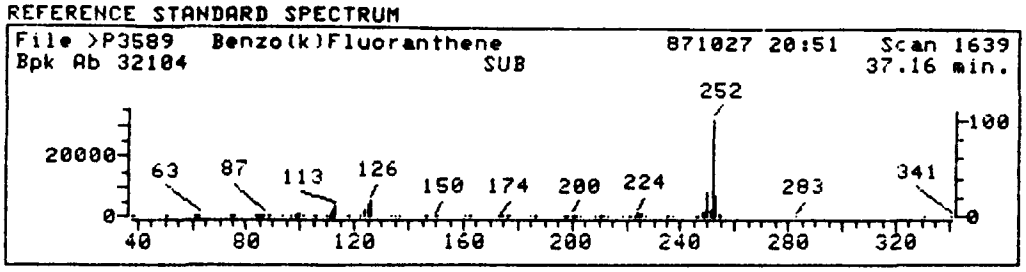
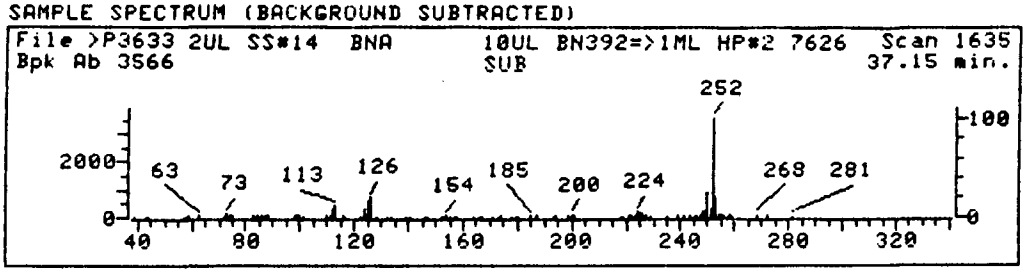
Misc: 10UL BN392=>1ML HP#2 762622 BTL#67
Quant Time: 871103 17:32 Quant ID File: !IDXPP::ME
Injected at: 871103 16:45 Last Calibration: 871103 12:07

Compound No: 63
Compound Name: Benzo(b)Fluoranthene
Scan Number: 1632
Retention Time: 37.09 min.
Quant Ion: 252.0
Area: 17817M
Concentration: 5.98 ug/mL
q-value: 96

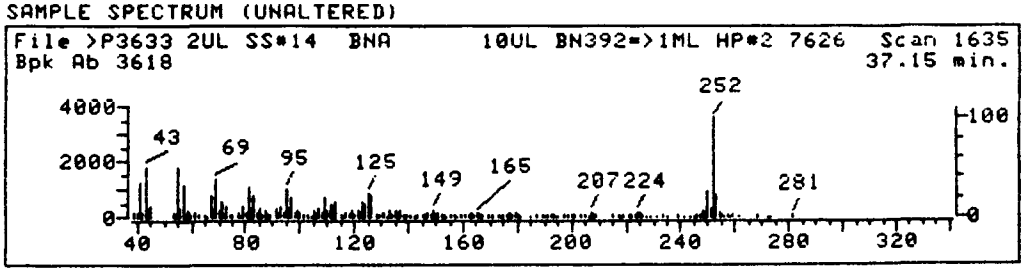
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



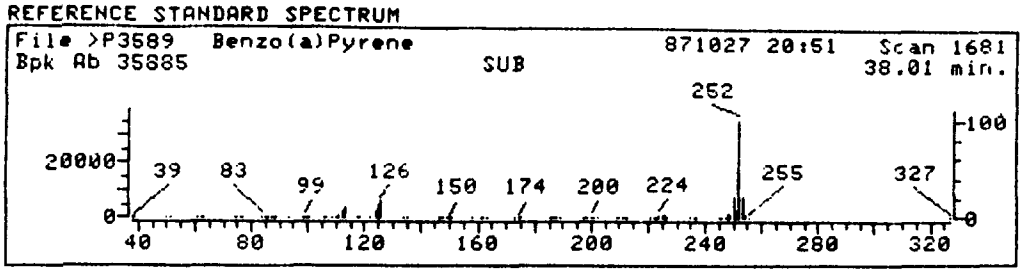
SAMPLE SPECTRUM (UNALTERED)



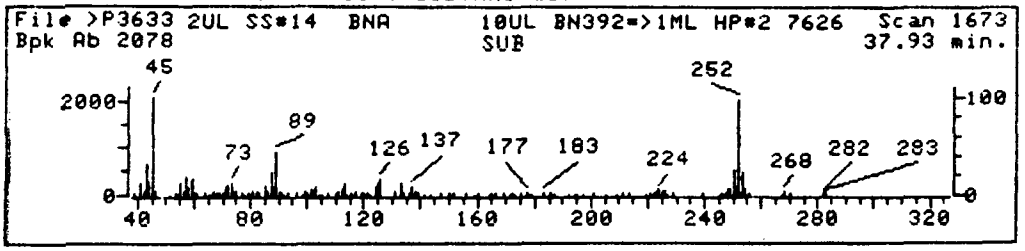
Data File: >P3633::B2 Quant Output File: ^P3633::QT
Name: 2UL SS#14 BNA
Misc: 10UL BN392=>1ML HP#2 762622 BTL#67
Quant Time: 871103 17:32 Quant ID File: !IDXPP::ME
Injected at: 871103 16:45 Last Calibration: 871103 12:07

Compound No: 64
Compound Name: Benzo(k)Fluoranthene
Scan Number: 1635
Retention Time: 37.15 min.
Quant Ion: 252.0
Area: 7613M
Concentration: 2.56 ug/mL
q-value: 95

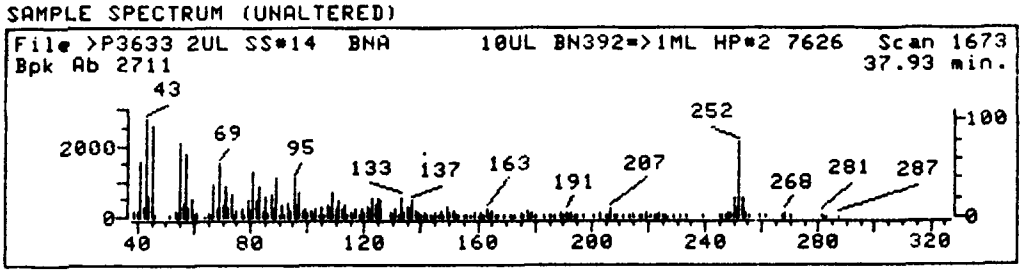
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



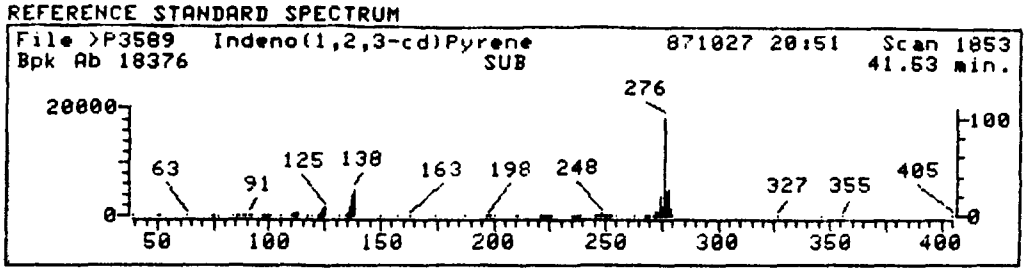
SAMPLE SPECTRUM (UNALTERED)



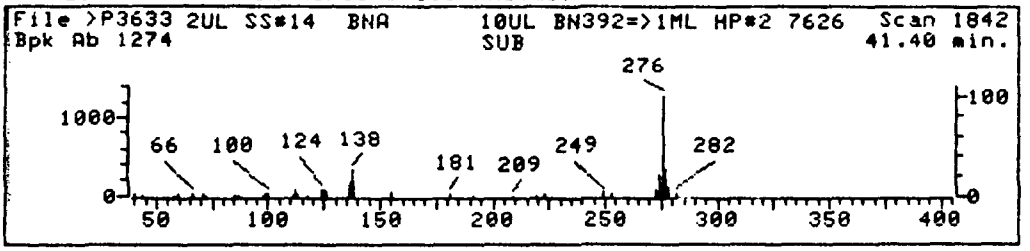
Data File: >P3633::B2 Quant Output File: ^P3633::QT
Name: 2UL SS#14 BNA
Misc: 10UL BN392=>1ML HP#2 762622 BTL#67
Quant Time: 871103 17:32 Quant ID File: !IDXPP::ME
Injected at: 871103 16:45 Last Calibration: 871103 12:07

Compound No: 65
Compound Name: Benzo(a)Pyrene
Scan Number: 1673
Retention Time: 37.93 min.
Quant Ion: 252.0
Area: 7389
Concentration: 2.54 ug/mL
q-value: 94

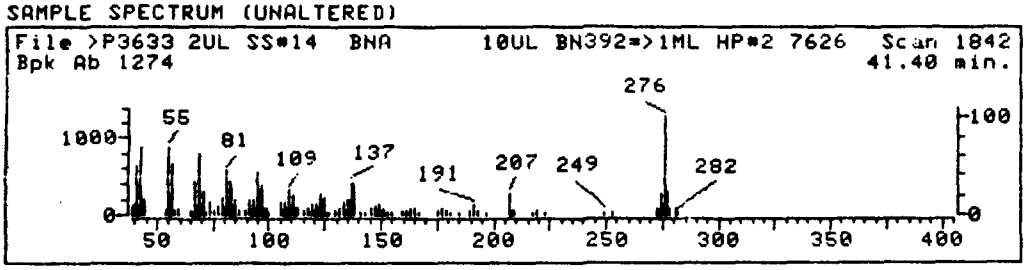
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



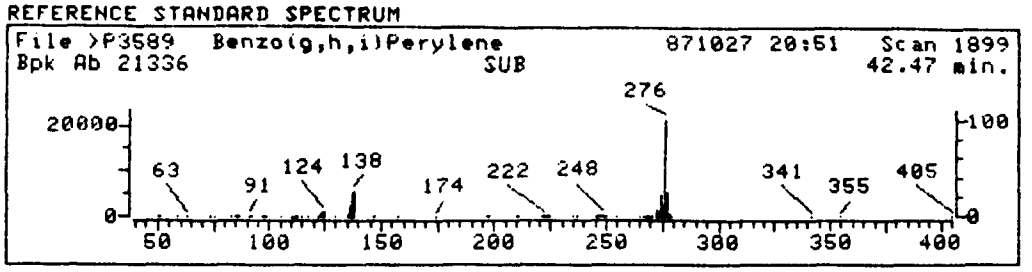
SAMPLE SPECTRUM (UNALTERED)



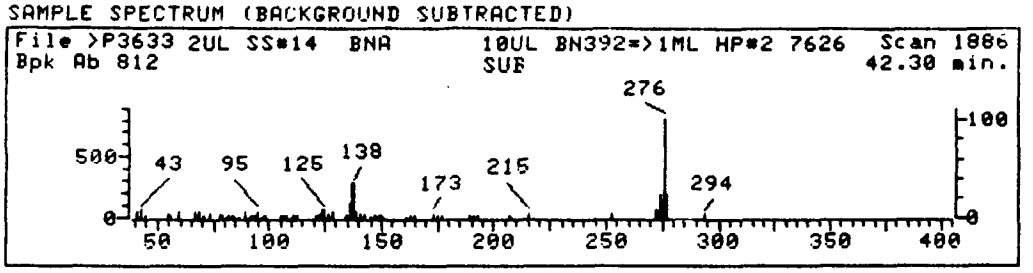
Data File: >P3633::B2 Quant Output File: ^P3633::QT
Name: 2UL SS#14 BNA
Misc: 10UL BN392=>1ML HP#2 762622 BTL#67
Quant Time: 871103 17:32 Quant ID File: !IDXPP::ME
Injected at: 871103 16:45 Last Calibration: 871103 12:07

Compound No: 66
Compound Name: Indeno(1,2,3-cd)Pyrene
Scan Number: 1842
Retention Time: 41.40 min.
Quant Ion: 276.0
Area: 5688
Concentration: 1.71 ug/mL
q-value: 84

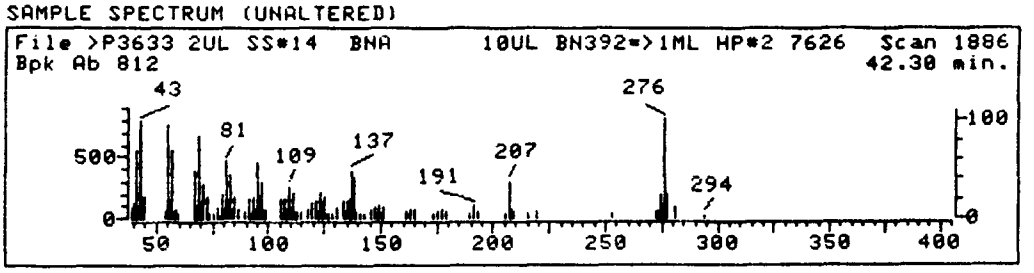
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

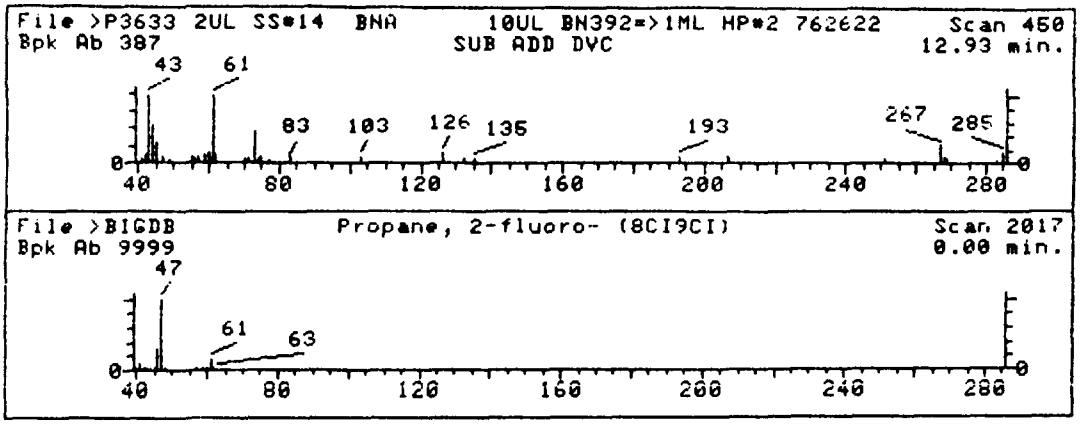


SAMPLE SPECTRUM (UNALTERED)



Data File: >P3633::B2 Quant Output File: ^P3633::QT
Name: 2UL SS#14 BNA
Misc: 10UL BN392=>1ML HP#2 762622 BTL#67
Quant Time: 871103 17:32 Quant ID File: !IDXPP::ME
Injected at: 871103 16:45 Last Calibration: 871103 12:07

Compound No: 68
Compound Name: Benzo(g,h,i)Perylene
Scan Number: 1886
Retention Time: 42.30 min.
Quant Ion: 276.0
Area: 4111
Concentration: 1.36 ug/mL
q-value: 89

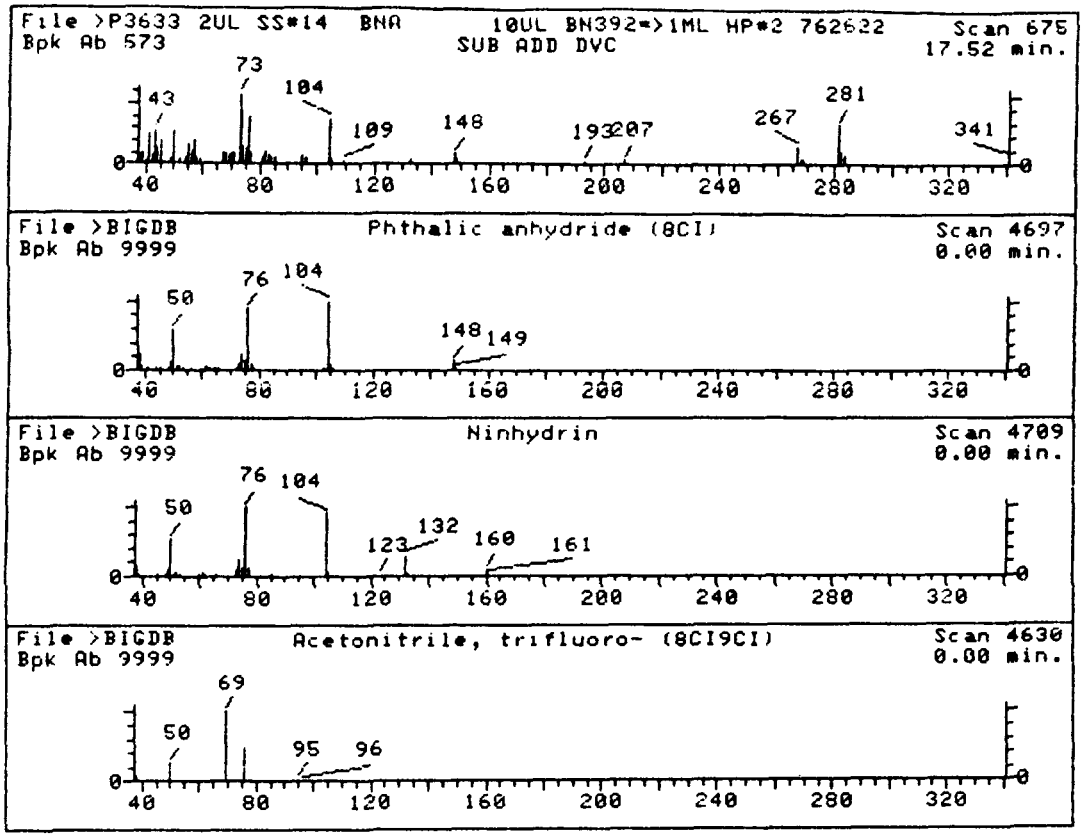


. Unknown #,1
Area = 49907.00 Tentative Concentration is 420.00

1. Propane, 2-fluoro- (8CI9CI) 62 C3H7F

Sample file: >P3633 Spectrum #: 450
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	24*	420268	2017	"BIGDB	24	63	3	0	684	45	8	12



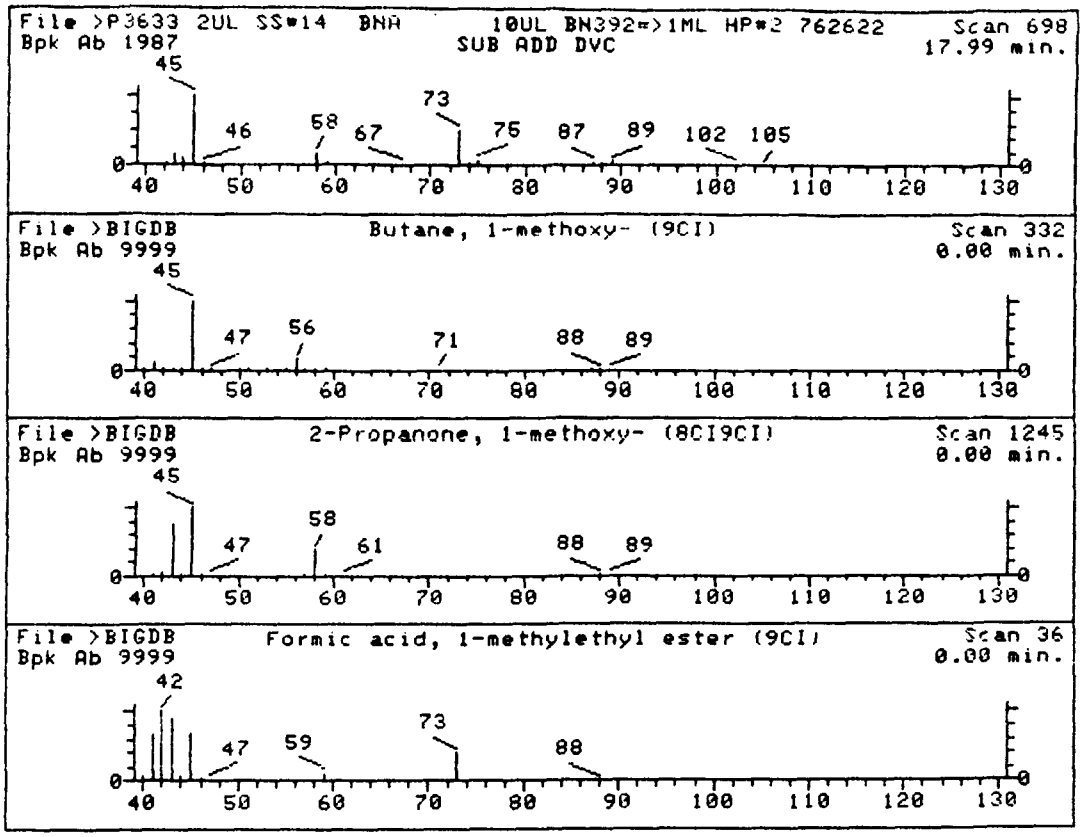
. Unknown #,2
Area = 56046.00 Tentative Concentration is 460.00

1.	Phthalic anhydride (8CI)	148 C8H4O3
2.	Ninhydrin	178 C9H6O4
3.	Acetonitrile, trifluoro- (8CI9CI)	95 C2F3N
4.	1,2-Benzenedicarboxylic acid, dihexyl ester (9CI)	334 C20H30O4
5.	Cyclotetrasiloxane, octamethyl- (8CI9CI)	296 C8H24O4Si4
6.	Benzoic acid, 4-[(trimethylsilyl)amino]-, trimethylsilyl ester (9CI)	281 C13H23NO2Si2

Sample file: >P3633 Spectrum #: 675
Search speed: 1 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	58*	85449	4697	"BIGDB	68	53	0	0	53	55	25	83

0193

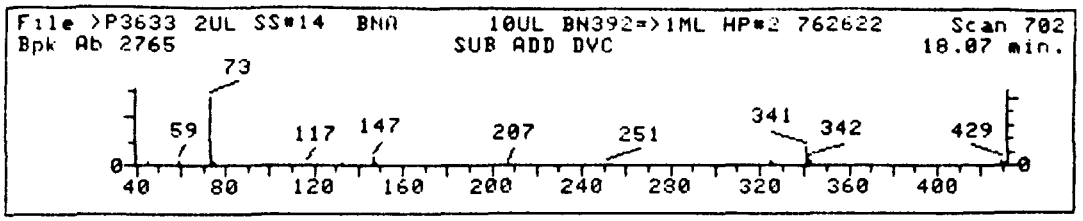


. Unknown #,3
Area = 38585.00 Tentative Concentration is 320.00

1.	Butane, 1-methoxy- (9CI)	88 C5H12O
2.	2-Propanone, 1-methoxy- (8CI9CI)	88 C4H8O2
3.	Formic acid, 1-methylethyl ester (9CI)	88 C4H8O2
4.	Acetaldehyde, methoxy- (8CI9CI)	74 C3H6O2
5.	2-Pentanol (8CI9CI)	88 C5H12O

Sample file: >P3633 Spectrum #: 698
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	45*	628284	332	"BIGDB	32	49	2	0	100	25	17	16



Unknown #,4
Area = 38632.00 Tentative Concentration is 320.00

Sample file: >P3633 Spectrum #: 702

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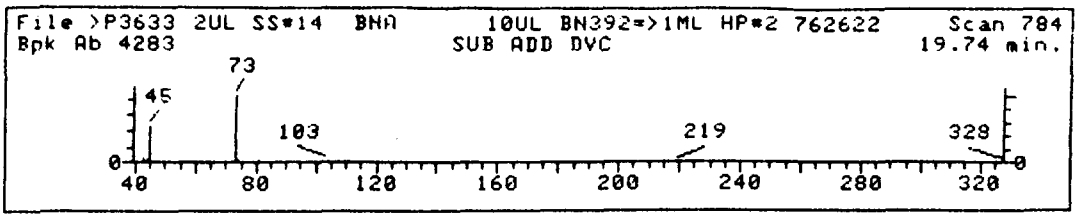
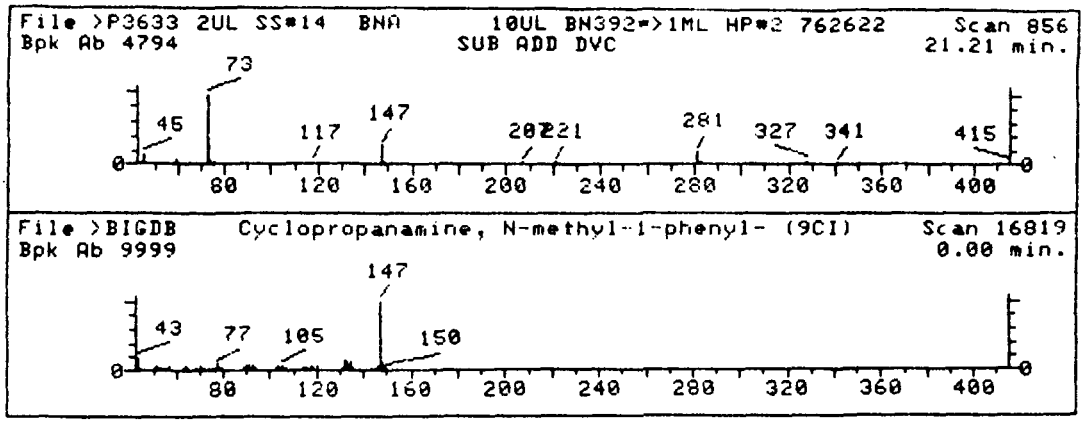


. Unknown #,5
Area = 41203.00 Tentative Concentration is 420.00

Sample file: >P3633 Spectrum #: 784

No data base entries were retrieved.

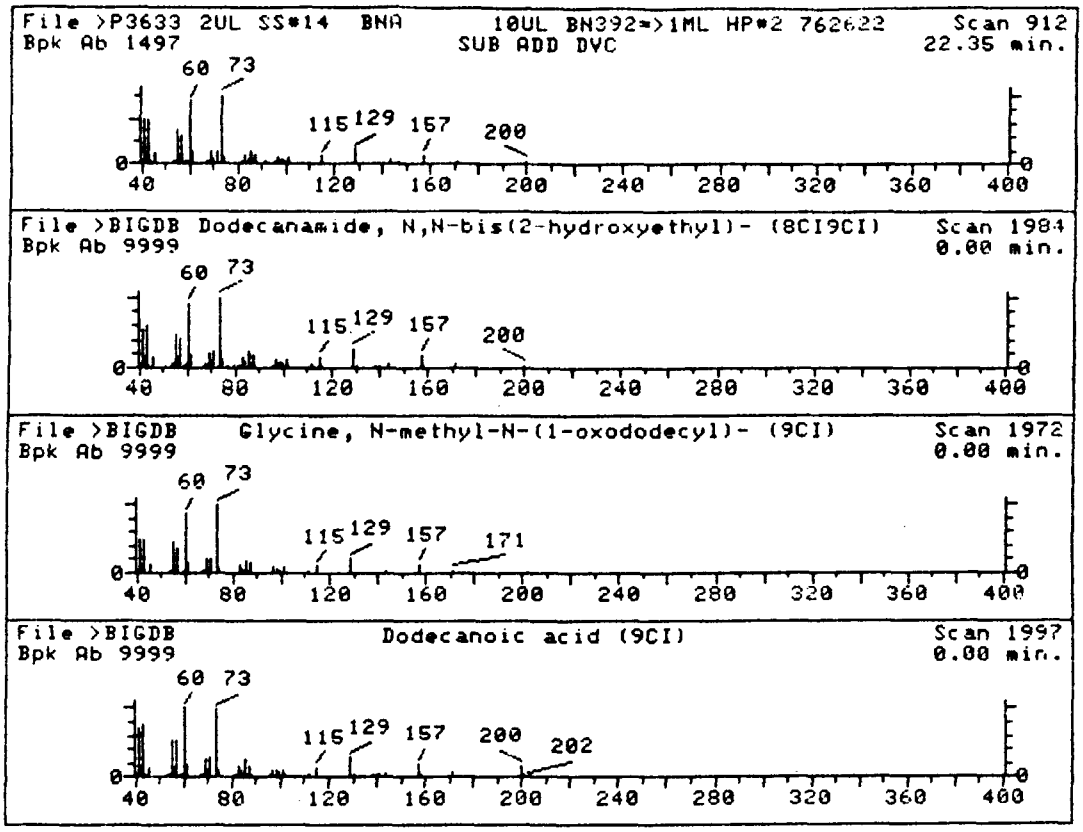


. Unknown #,6
Area = 32669.00 Tentative Concentration is 330.00

1. Cyclopropanamine, N-methyl-1-phenyl- (9CI) 147 C10H13N

Sample file: >P3633 Spectrum #: 856
Search speed: 1 Tilting option: N No. of ion ranges searched: 51

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	11*	56721483	16819	"BIGDB	28	53	3	0	27	63	2	13



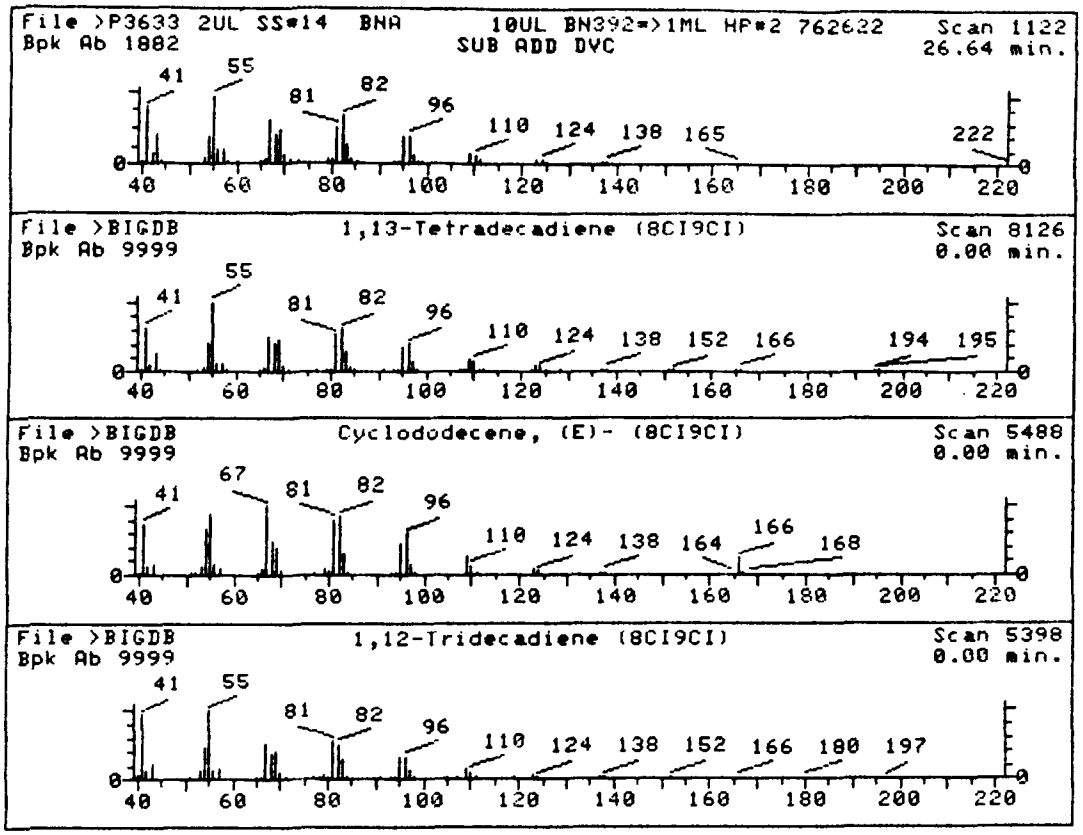
. Unknown #,7
Area = 49229.00 Tentative Concentration is 500.00

1.	Dodecanamide, N,N-bis(2-hydroxyethyl)- (8CI9CI)	287	C16H33NO3
2.	Glycine, N-methyl-N-(1-oxododecyl)- (9CI)	271	C15H29NO3
3.	Dodecanoic acid (9CI)	200	C12H24O2
4.	Thiosulfuric acid (H2S2O3), S-(2-aminoethyl) ester (9CI)	157	C2H7NO3S2
5.	Hexanoic acid (DOT)(8CI9CI)	116	C6H12O2
6.	Pentanoic acid (9CI)	102	C5H10O2
7.	Heptanoic acid (8CI9CI)	130	C7H14O2

Sample file: >P3633 Spectrum #: 912
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	96	120401	1984	"BIGDB	145	8	1	0	81	5	72	94
2.	96	97789	1972	"BIGDB	143	7	0	0	99	5	72	94
3.	86	143077	1997	"BIGDB	101	37	2	0	70	2	60	35

0198

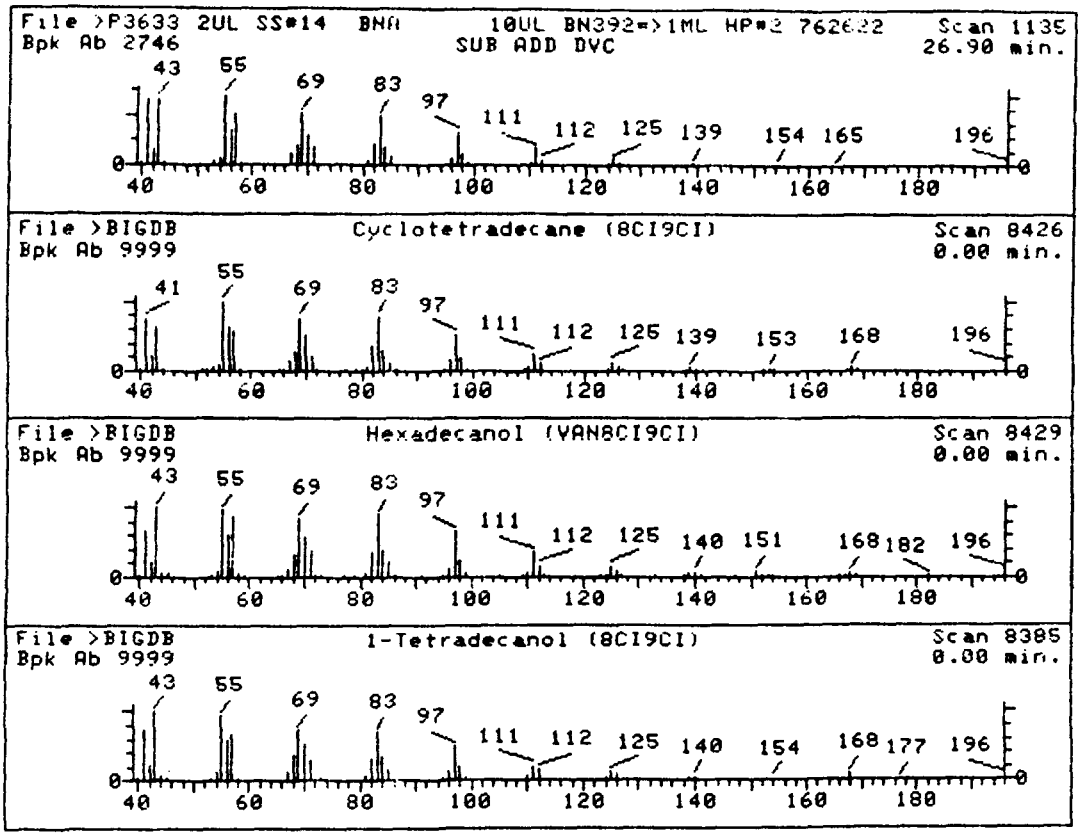


Unknown #,8
Area = 79713.00 Tentative Concentration is 670.00

1.	1,13-Tetradecadiene (8CI9CI)	194 C14H26
2.	Cyclododecene, (E)- (8CI9CI)	166 C12H22
3.	1,12-Tridecadiene (8CI9CI)	180 C13H24
4.	Bicyclo[8.2.0]dodecane, 11,11-dimethyl- (9CI)	194 C14H26
5.	Cyclododecene, (Z)- (8CI9CI)	166 C12H22
6.	1,12-Dodecanediol (8CI9CI)	202 C12H26O2
7.	7-Hexadecyne (9CI)	222 C16H30

Sample file: >P3633 Spectrum #: 1122
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	93	21964498	8126	"BIGDB	117	11	0	0	89	2	68	80
2.	89	1486755	5488	"BIGDB	101	28	1	0	60	2	66	60
3.	88	21964487	5398	"BIGDB	94	27	1	0	90	4	65	94
4.	76	62338298	15420	"BIGDB	83	60	2	0	59	8	45	63
5.	74	1129891	5487	"BIGDB	86	43	1	0	58	11	39	42
6.	73	5675514	5430	"BIGDB	82	55	0	0	77	24	32	60



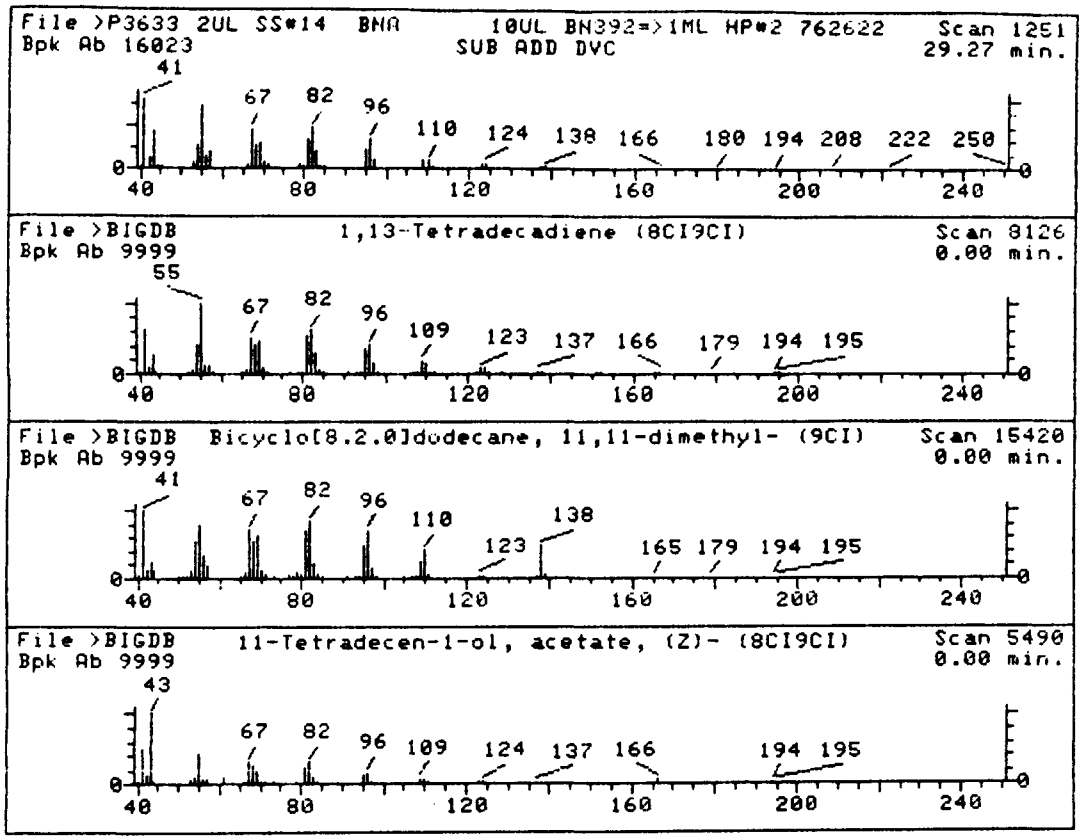
. Unknown #,9
Area = 96990.00 Tentative Concentration is 810.00

1.	Cyclotetradecane (8CI9CI)	196 C14H28
2.	Hexadecanol (VAN8CI9CI)	242 C16H34O
3.	1-Tetradecanol (8CI9CI)	214 C14H30O
4.	5-Octadecene, (E)- (8CI9CI)	252 C18H36
5.	1-Hexadecene (8CI9CI)	224 C16H32
6.	1-Pentadecanol (8CI9CI)	228 C15H32O
7.	9-Octadecene, (E)- (8CI9CI)	252 C18H36

Sample file: >P3633 Spectrum #: 1135
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	89	295170	8426	"BIGDB	125	23	2	0	80	0	66	61
2.	89	29354981	8429	"BIGDB	130	37	2	0	59	0	66	66
3.	88	112721	8385	"BIGDB	114	32	2	0	76	3	65	54
4.	86	7206215	8295	"BIGDB	114	31	1	0	88	10	59	71
5.	84	629732	8371	"BIGDB	127	31	2	0	56	9	55	65
6.	84	629765	8410	"BIGDB	124	39	2	0	61	6	55	61
7.	83	7206259	8308	"BIGDB	135	17	2	0	74	12	51	71

0020

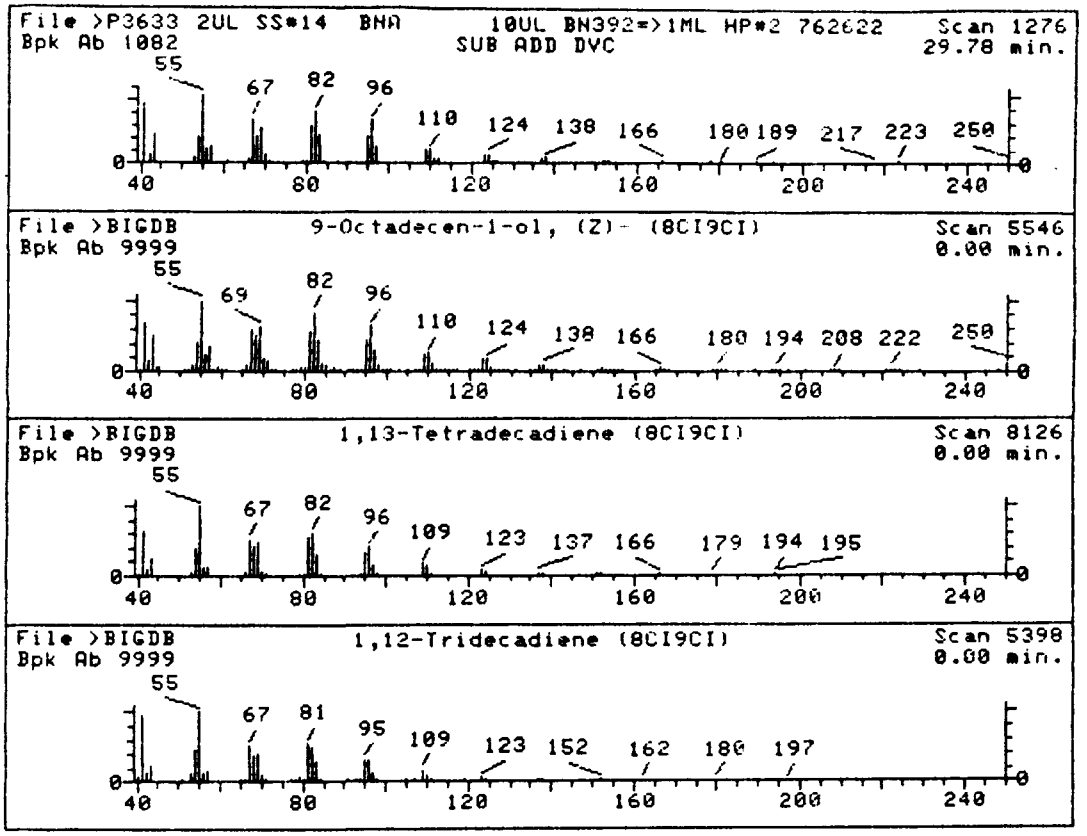


Unknown #,10
Area = 1566490. Tentative Concentration is 13000.00

1.	1,13-Tetradecadiene (8CI9CI)	194 C14H26
2.	Bicyclo[8.2.0]dodecane, 11,11-dimethyl- (9CI)	194 C14H26
3.	11-Tetradecen-1-ol, acetate, (Z)- (8CI9CI)	254 C16H30O2
4.	Cyclododecene, (E)- (8CI9CI)	166 C12H22
5.	Cyclododecene, (Z)- (8CI9CI)	166 C12H22
6.	1,14-Tetradecanediol (8CI9CI)	230 C14H30O2
7.	9-Octadecyne (9CI)	250 C18H34

Sample file: >P3633 Spectrum #: 1251
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	89	21964498	8126	"BIGDB	117	11	1	0	72	3	66	73
2.	79*	62338298	15420	"BIGDB	90	53	2	0	55	11	43	69
3.	78	20711108	5490	"BIGDB	75	58	3	0	185	3	55	13
4.	76	1486755	5488	"BIGDB	92	37	2	0	52	9	45	27
5.	76	1129891	5487	"BIGDB	72	42	1	0	49	7	45	27
6.	73	19812647	5381	"BIGDB	103	40	1	0	73	24	32	63
7.	71*	35365594	5435	"BIGDB	74	62	1	0	42	35	32	72



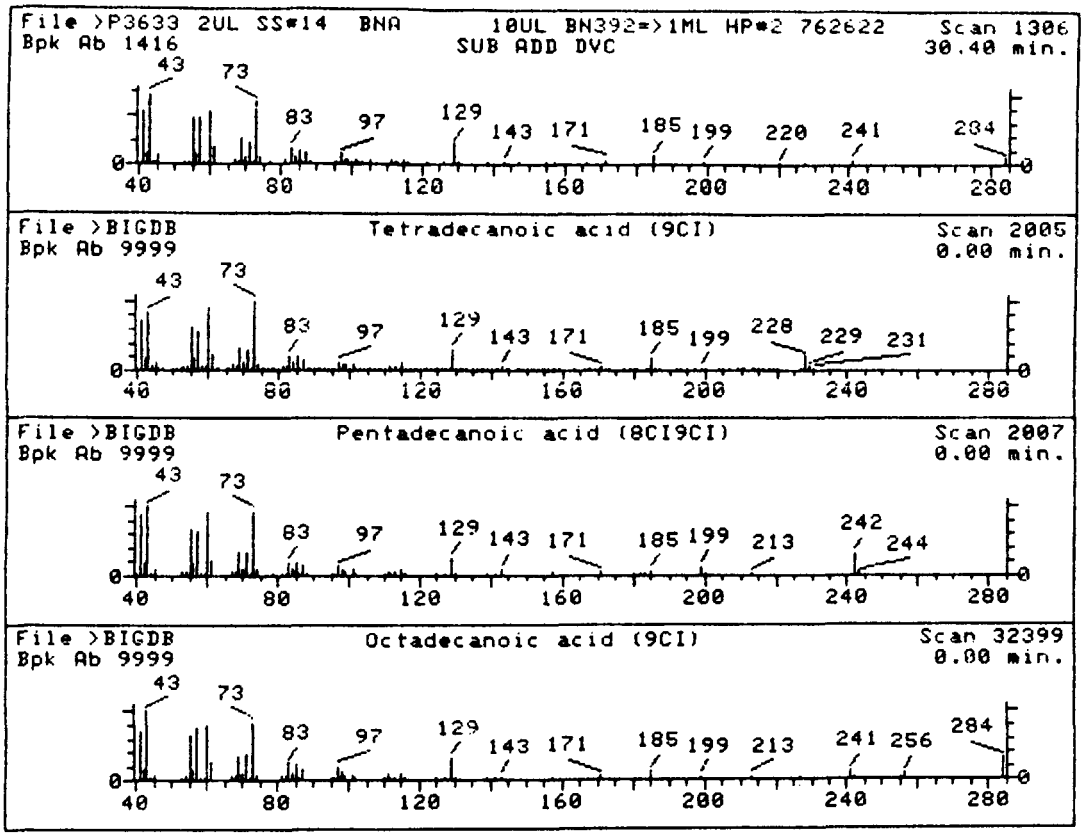
. Unknown #,11
Area = 35318.00 Tentative Concentration is 200.00

1.	9-Octadecen-1-ol, (Z)- (8CI9CI)	268 C18H36O
2.	1,13-Tetradecadiene (8CI9CI)	194 C14H26
3.	1,12-Tridecadiene (8CI9CI)	180 C13H24
4.	Ethanol, 2-(9-octadecenyloxy)-, (Z)- (8CI9CI)	312 C20H40O2
5.	Bicyclo[8.2.0]dodecane, 11,11-dimethyl- (9CI)	194 C14H26
6.	Cyclododecene, (E)- (8CI9CI)	166 C12H22
7.	1,13-Tridecanediol, diacetate (9CI)	300 C17H32O4

Sample file: >P3633 Spectrum #: 1276
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	89	143282	5546	"BIGDB	129	39	2	0	80	3	66	66
2.	76	21964498	8126	"BIGDB	96	32	1	0	97	11	40	56

0202



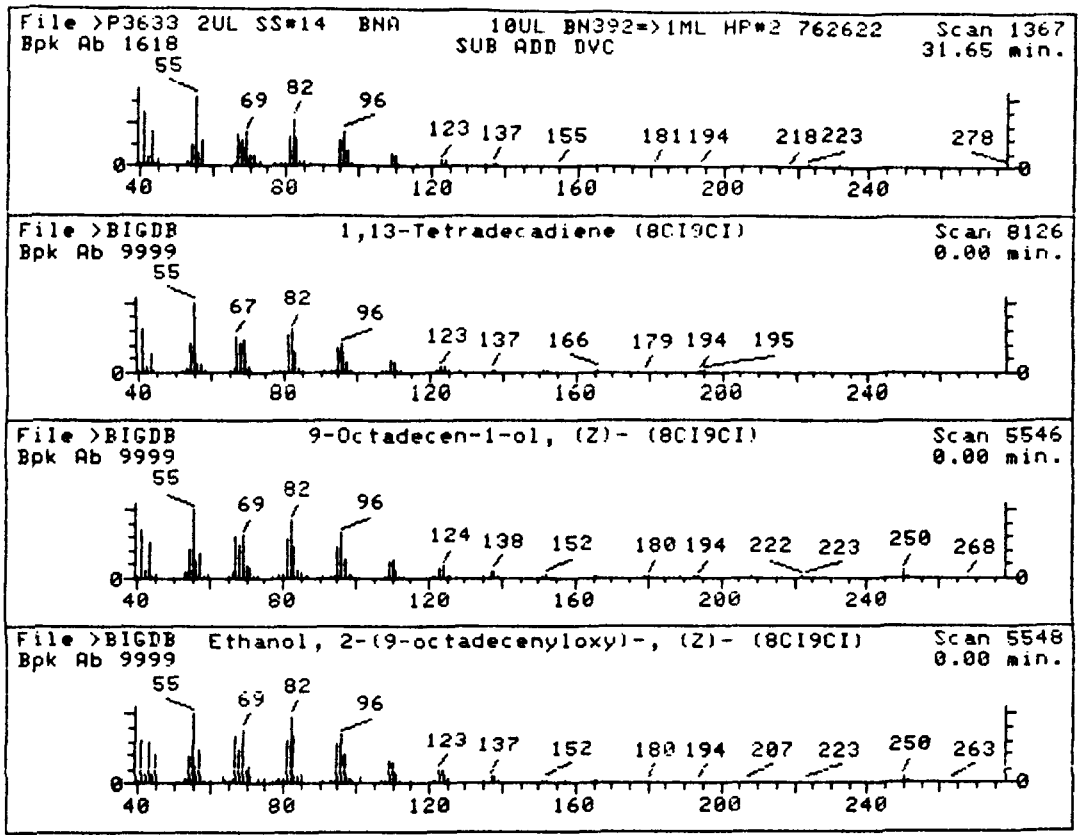
. Unknown #,12
Area = 42291.00 Tentative Concentration is 240.00

1.	Tetradecanoic acid (9CI)	228 C14H28O2
2.	Pentadecanoic acid (8CI9CI)	242 C15H30O2
3.	Octadecanoic acid (9CI)	284 C18H36O2
4.	Hexadecanoic acid (9CI)	256 C16H32O2
5.	Dodecanamide, N,N-bis(2-hydroxyethyl)- (8CI9CI)	287 C16H33NO3
6.	Octanoic acid (8CI9CI)	144 C8H16O2
7.	Dodecanoic acid (9CI)	200 C12H24O2

Sample file: >P3633 Spectrum #: 1306
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	71	544638	2005	"BIGDB	114	32	3	0	86	15	38	33

0203



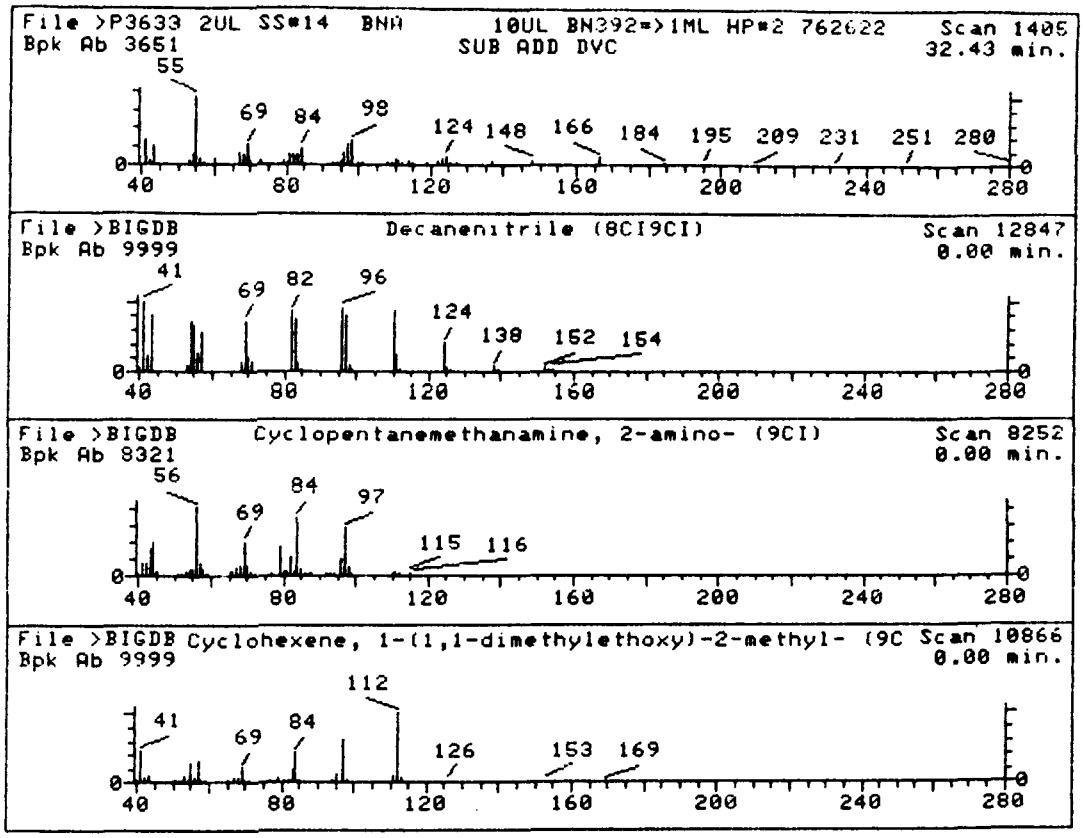
. Unknown #,13
Area = 94720.00 Tentative Concentration is 530.00

1.	1,13-Tetradecadiene (8CI9CI)	194 C14H26
2.	9-Octadecen-1-ol, (Z)- (8CI9CI)	268 C18H36O
3.	Ethanol, 2-(9-octadecenyloxy)-, (Z)- (8CI9CI)	312 C20H40O2
4.	1,14-Tetradecanediol (8CI9CI)	230 C14H30O2
5.	Tetradecanal (ACN)(9CI)	212 C14H28O
6.	1-Eicosyne (8CI9CI)	278 C20H38
7.	16-Octadecenal (9CI)	266 C18H34O

Sample file: >P3633 Spectrum #: 1367
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	89*	21964498	8126	"BIGDB	91	37	1	0	78	21	47	89
2.	83	143282	5546	"BIGDB	112	56	2	0	57	9	54	50
3.	78	5353253	5548	"BIGDB	88	96	3	0	62	1	55	17
4.	73	19812647	5381	"BIGDB	82	61	0	0	82	21	32	60

4020



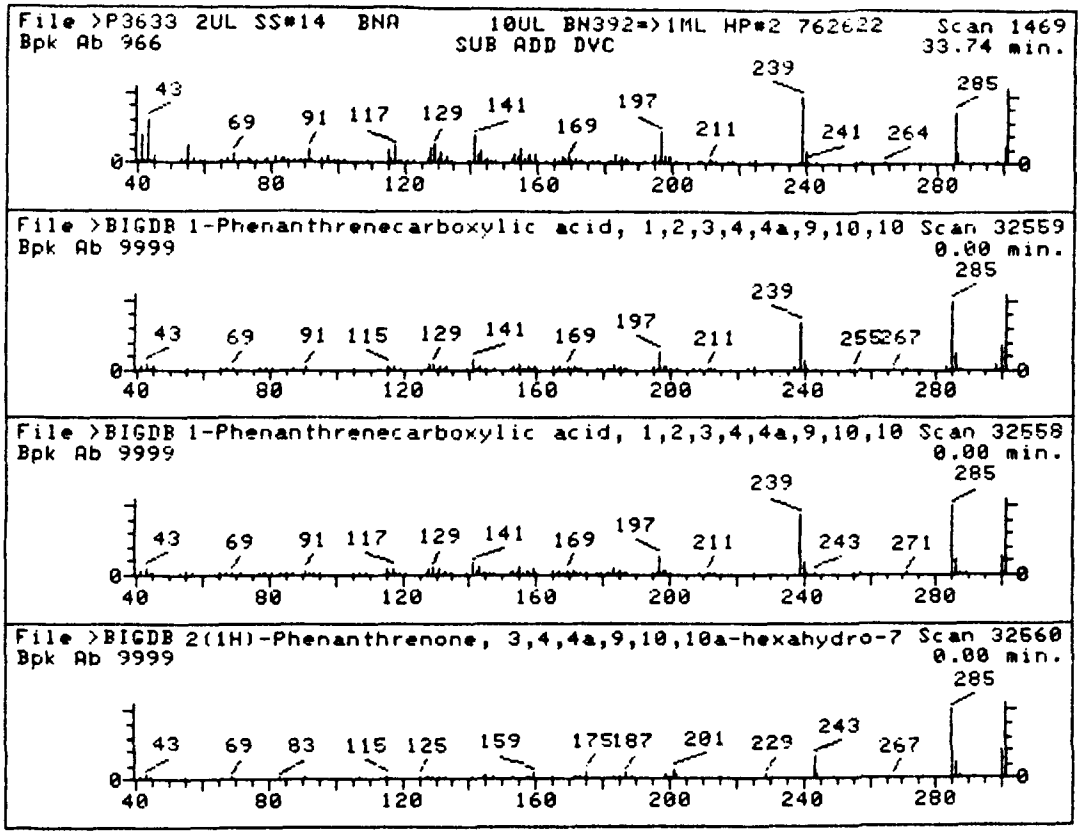
. Unknown #,14
Area = 181671.0 Tentative Concentration is 1000.00

1.	Decanenitrile (8CI9CI)	153 C10H19N
2.	Cyclopentanemethanamine, 2-amino- (9CI)	114 C6H14N2
3.	Cyclohexene, 1-(1,1-dimethylethoxy)-2-methyl- (9CI)	168 C11H20O
4.	4H-Cyclopentacycloocten-4-one, decahydro- (9CI)	166 C11H18O
5.	Bicyclo[5.3.1]undecan-11-one (8CI9CI)	166 C11H18O
6.	Methylamine, N-cyclopentylidene- (8CI)	97 C6H11N
7.	3-Nonyn-1-ol (8CI9CI)	140 C9H16O

Sample file: >P3633 Spectrum #: 1405
Search speed: 1 Tilting option: N No. of ion ranges searched: 66

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_I
1.	23*	1975786	12847	"BIGDB	57	41	1	0	20	60	6	46

0205



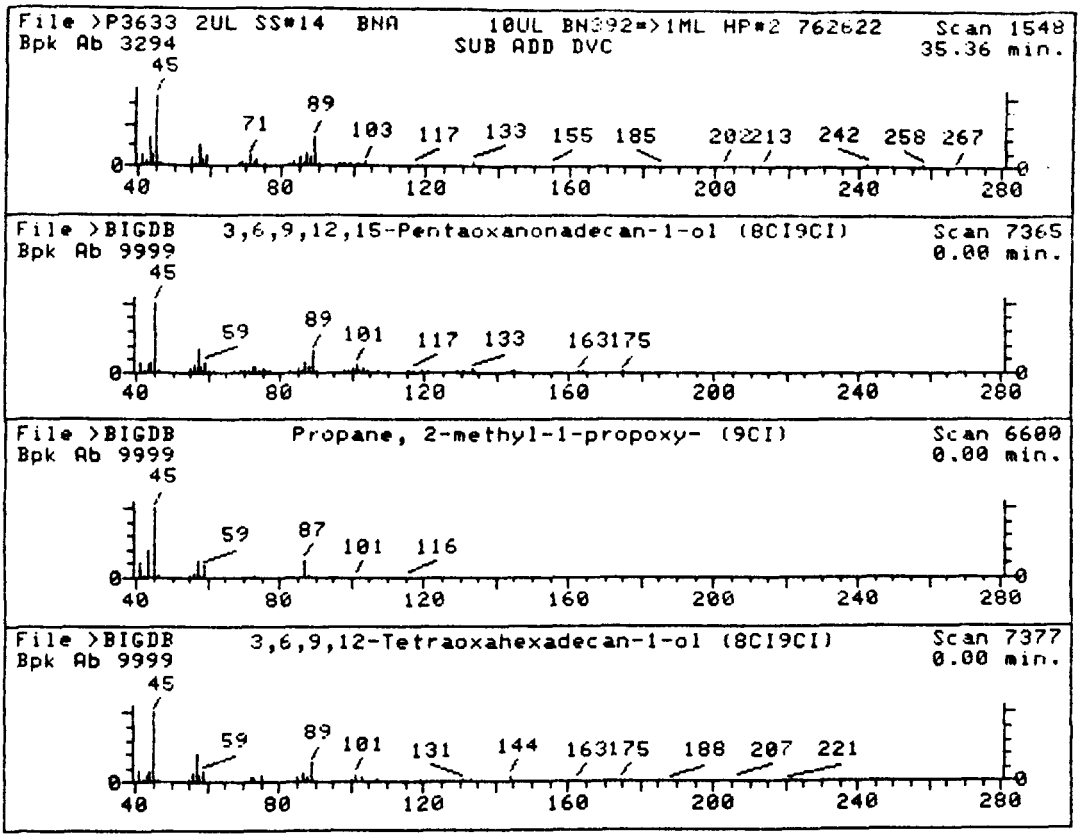
. Unknown #,15
Area = 46773.00 Tentative Concentration is 260.00

1.	1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1S-(1.alpha.,4a.alpha.,10a.beta.)]-	300	C20H28O2
2.	1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,10a.alpha.)]-	300	C20H28O2
3.	2(1H)-Phenanthrenone, 3,4,4a,9,10,10a-hexahydro-7-hydroxy-1,1,4a-trimethyl-8-(1-methylethyl)-, (4aS-trans)- (9CI)	300	C20H28O2
4.	Pregn-17(20)-en-16-one, (5.alpha.,17Z)- (9CI)	300	C21H32O

Sample file: >P3633 Spectrum #: 1469
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	47*	5155704	32559	"BIGDB	54	100	2	0	71	33	20	31

0203



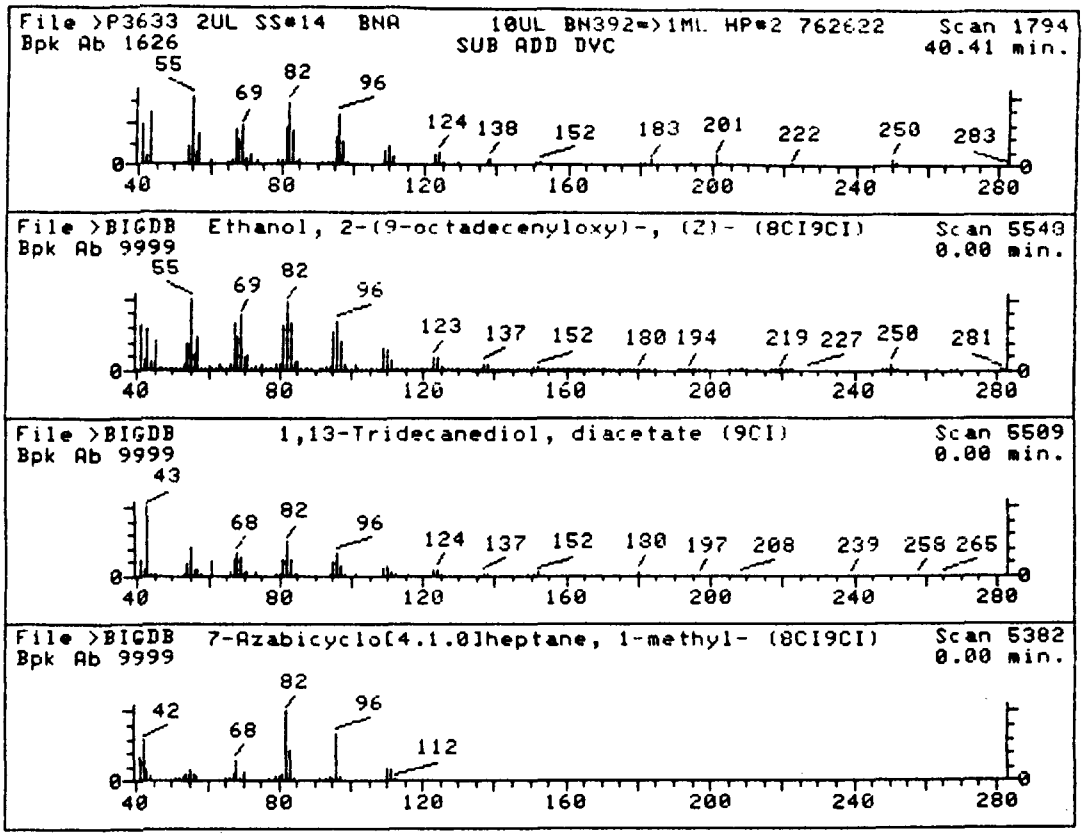
Unknown #,16
Area = 71275.00 Tentative Concentration is 400.00

1.	3,6,9,12,15-Pentaoxanonadecan-1-ol (8CI9CI)	294 C14H3006
2.	Propane, 2-methyl-1-propoxy- (9CI)	116 C7H160
3.	3,6,9,12-Tetraoxahexadecan-1-ol (8CI9CI)	250 C12H2605
4.	Diisopropyl ether (DOT)	102 C6H140
5.	Ether, sec-butyl isopropyl (8CI)	116 C7H160
6.	Ethanol, 2-(ethenyloxy)- (9CI)	88 C4H802
7.	Propane, 1-methoxy-2-methyl- (9CI)	88 C5H120

Sample file: >P3633 Spectrum #: 1548
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_iv
1.	67	1786943	7365	"BIGDB	90	42	2	0	100	11	34	27

4020

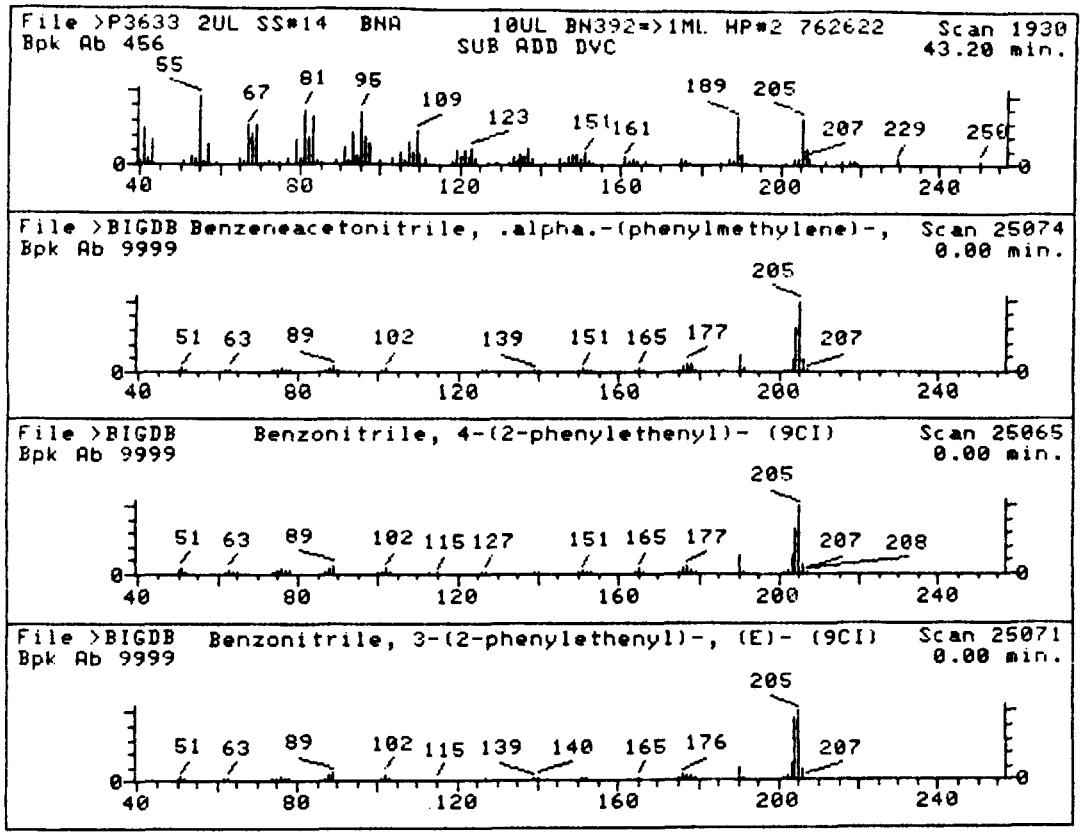


. Unknown #,17
Area = 68957.00 Tentative Concentration is 440.00

1.	Ethanol, 2-(9-octadecenyloxy)-, (Z)- (8CI9CI)	312 C20H40O2
2.	1,13-Tridecanediol, diacetate (9CI)	300 C17H32O4
3.	7-Azabicyclo[4.1.0]heptane, 1-methyl- (8CI9CI)	111 C7H13N
4.	1-Eicosyne (8CI9CI)	278 C20H38
5.	16-Octadecenal (9CI)	266 C18H34O
6.	9-Octadecen-1-ol, (Z)- (8CI9CI)	268 C18H36O
7.	17-Octadecenal (9CI)	266 C18H34O

Sample file: >P3633 Spectrum #: 1794
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	69	5353253	5548	"BIGDB	121	63	2	0	70	32	26	60



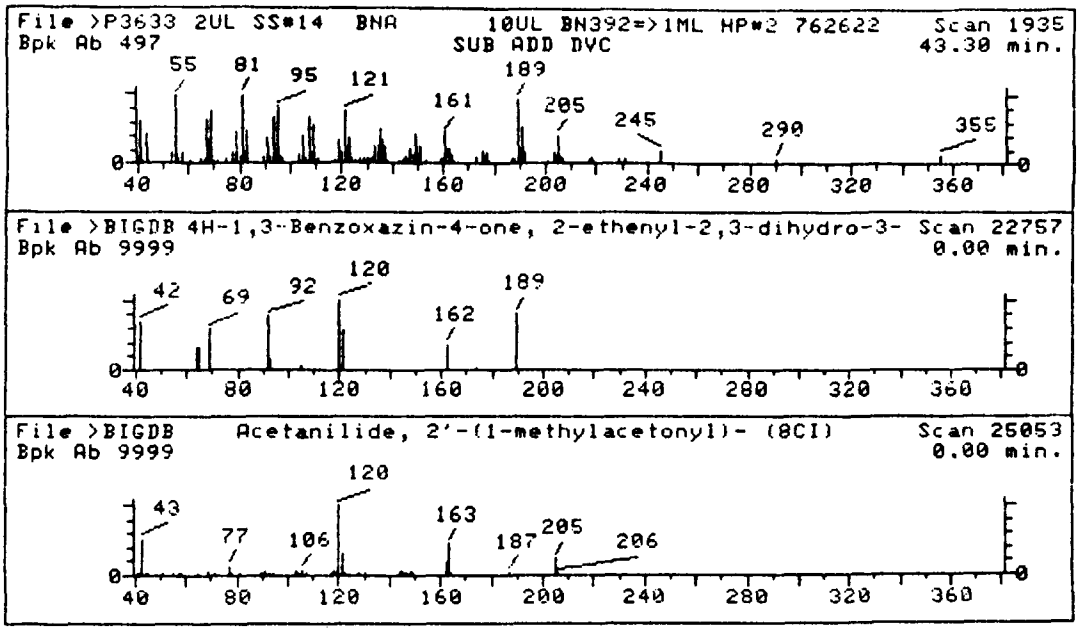
. Unknown #,18
Area = 69225.00 Tentative Concentration is 440.00

1.	Benzeneacetonitrile, .alpha.-(phenylmethylene)-, (E) - (9CI)	205	C15H11N
2.	Benzonitrile, 4-(2-phenylethenyl)- (9CI)	205	C15H11N
3.	Benzonitrile, 3-(2-phenylethenyl)-, (E)- (9CI)	205	C15H11N
4.	Benzene, 1,1'-(1-isocyano-1,2-ethenediyl)bis-, (Z)- (9CI)	205	C15H11N
5.	Benzonitrile, 4-(2-phenylethenyl)-, (E)- (9CI)	205	C15H11N
6.	Benzoic acid, 3-amino-2,5-dichloro- (8CI9CI)	205	C7H5Cl2NO2
7.	Phthalazine, 1-phenyl- (8CI9CI)	206	C14H10N2

Sample file: >P3633 Spectrum #: 1930
Search speed: 1 Tilting option: N No. of ion ranges searched:

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	16610803	25074	"BIGDB	43	81	3	0	68	50		13

6029

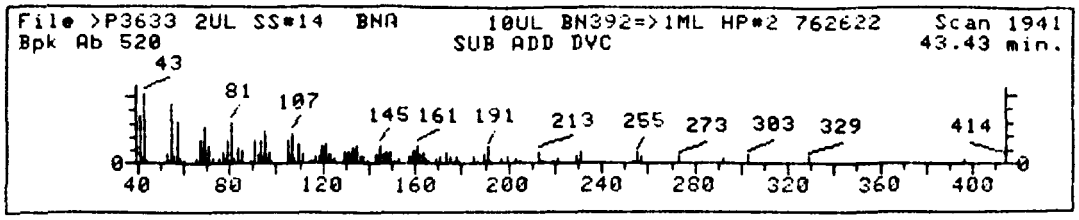


. Unknown #,19
Area = 73463.00 Tentative Concentration is 470.00

1. 4H-1,3-Benzoxazin-4-one, 2-ethenyl-2,3-dihydro-3-met hyl- (9CI) 189 C11H11NO2
2. Acetanilide, 2'-(1-methylacetonyl)- (8CI) 205 C12H15NO2

Sample file: >P3633 Spectrum #: 1935
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	20*	66362423	22757	"BIGDB	23	74	3	0	115	53	5	12



. Unknown #,20
Area = 63512.00 Tentative Concentration is 410.00

Sample file: >P3633 Spectrum #: 1941

No data base entries were retrieved.

H2M LABORATORY

III. 2. Reporting Package for
I.D.# Surface Soil #13

CHAIN OF CUSTODY RECORD

PROJ. NO. SHMP6005 | PROJECT NAME RI/FS North Sea Landfill

SAMPLERS: (Signature) J. Angyal

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Bottle B (HNO3)	Bottle F (unpres)	Bottle I	Bottle I (2) H2SO4	Bottle K 1gt Glass	Bottle K 8oz Glass	1 Gallon Plastic Bottle H (NaOH)	REMARKS
SB#17	10/14	12:45pm	✓		SURFACE SOIL #17	1	–	–	–	–	1	–		USE FOR MS/MSD Sample
SB#20	10/14	2:15pm	✓		SURFACE SOIL #20	3	–	1	–	–	–	1	1	– – Split w/ Versar
SB#19	10/14	2:30pm	✓		SURFACE SOIL #19	3	–	1	–	–	–	1	1	– –
SB#18	10/14	1:30pm	✓		SURFACE SOIL #18	3	–	1	–	–	–	1	1	– – Split w/ Versar
SB#16	10/14	10:30am	✓		SURFACE SOIL #16	3	–	1	–	–	–	1	1	– –
SB#15	10/14	11:30am	✓		SURFACE SOIL #15	3	–	1	–	–	–	1	1	– – Split w/ Versar
SB#14	10/14	10:15am	✓		SURFACE SOIL #14	3	–	1	–	–	–	1	1	– –
SB#13	10/14	10:50am	✓		SURFACE SOIL #13	3	–	1	–	–	–	1	1	– –
SB#12	10/14	11:40am	✓		SURFACE SOIL #12	3	–	1	–	–	–	2		– 1 clear / 1 Brown
SB#11	10/14	9:45am	✓		SURFACE SOIL #11	3	–	1	–	–	–	2		– 1 clear / 1 Brown
	10/14	8:30am		✓	Field Blank	5	1	–	2	1	–	–	–	– 1 – filled 1st thing
	10/13	1400 hrs	–	✓	Trip Blank	5	1	–	2	1	–	–	–	– 1
	10/13	1430 hrs	–	✓	Field Blank Water	2	–	–	–	–	–	–	–	2 –

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Stuart W. Hurrell	10/14/87 0700	James Angyal			
J. Angyal	10/14/87	Received for Laboratory by: (Signature)	Date / Time 10/14/87 1815	Remarks	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

0213

HZM LABORATORY

Town of Southampton
North Sea Land fill
ID# SHMP 8605

Page 1

Continuing Chain of Custody

Samples Received by Jim Padilla date 10/14/87 time 1815 HRS.

Signature

No. of bottles received	client sample ID's	type	HZM lab no. X·BN X·AE X·PH
1	surface soil #20	amber glass 40z 1	762617
1	surface soil #19	" "	762618
1	surface soil #18	" "	762619
1	surface soil #16	" "	762620
1	surface soil #15	" "	762621
1	surface soil #14	" "	762622
1	surface soil #13	" "	762623
1	surface soil #12	" "	762624
1	surface soil #11	" "	762625
2	Field Blank	2 I	762653
2	Trip Blank	2 I	762654

Sample Relinquished by	Sample Received by	Date	Time	Bottle Type	Reason
	EHBarthman	10/15/87	1700 hrs	ALL	storage / Analysis
EHBarthman	Mark J. Gaetano	10/19/87	0900 hrs	762653 762654	Extraction concen
Mark J. Gaetano	EHBarthman	10/19/87	1600 hrs	762653 762654	storage
EHBarthman	Glenn K Bartuccelli	10/19/87	1500	All vials	Analysis

5120

SAMPLE PREPARATION FOR ORGANIC PRIORITY POLLUTANT EXTRACTABLES

H2M LABS, INC.

Environmental and Industrial Analytical Laboratory
575 Broad Hollow Road, Melville, NY 11747-5076

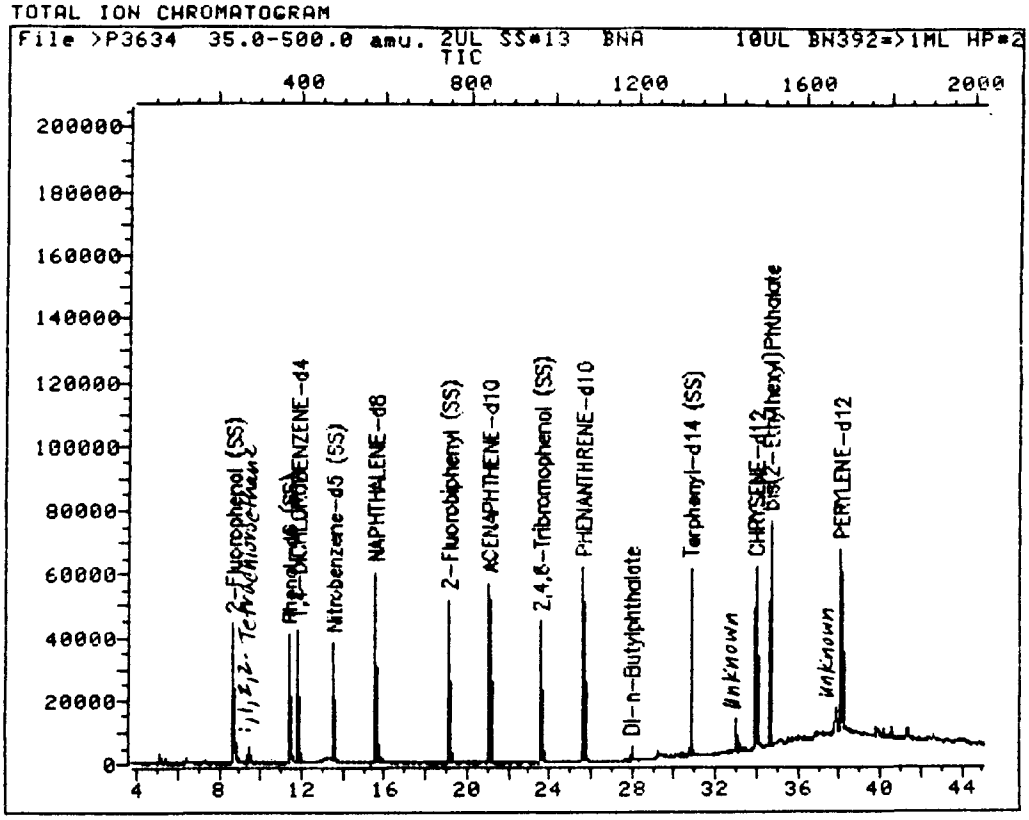
(516) 694-3040

LAB #	762617	762618	762619	762620	762621	762622	762623	
LAB # PP								
Client Client Sample #	TSH SS#20	TSH SS#19	TSH SS#18	TSH SS#16	TSH SS#15	TSH SS#14	TSH SS#13	TSH SS#12
SCANS	BNA	BNA	BNA	BNA	BNA	BNA	BNA	BNA
PROTOCOL	CLP	CLP	CLP	CLP	CLP	CLP	CLP	CLP
EXTRACTION DATE	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20
ANALYST	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
METHOD	SOM	SOM	SOM	SOM	SOM	SOM	SOM	SOM
SAMPLE VOLUME (g)	25.0967	25.0754	25.0019	25.0848	25.0259	25.0690	25.0532	25.0058
SURROGATE NUMBER/VOLUME	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each
MATRIX SPIKE NUMBER/VOLUME								
BN EXTRACT SPLIT	N	N	N	N	N	N	N	N
CONCENTRATED DATE/INITIALS BN/AE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CONCENTRATION VOLUME BN	—	—	—	—	—	—	—	—
CONCENTRATION VOLUME AE	—	—	—	—	—	—	—	—
(SOIL) BNA	5ml	1ml	1ml	5ml	1ml	5ml	5ml	5ml
PP CONCENTRATED DATE/ANALYST								
PP CONCENTRATION VOLUME								
ALUMINA CLEANED								
Bio-Bead Cleaned	BB			BB		BB	BB	BB
REMARKS								

Semi-Volatile BNA

A.	date	direct Inj.	RUN #	STD Sol. #	Sample # / Lab # / Client #	Comments	Autosampler standard: #	Sol. #	Sol. Vol.	Storage Info: Tape	CRN.	Track	QUANT.	Reported Date
GKB	10/31	MS	3609		2 SS-18	762619	10	BN 3420	1.0			B2		
			3610		SS-15	762621								
			3611		MW-5A	762952								
			3612		MW-5B	762955								
			3613		762911									
			3614		763340									
			3615		763341									
			3616		763343									
			3617		030/30	761657								
↓	↓	↓	3618		West Stockpile		↓	↓	↓			↓		
GKB	10/30	MS	DF 147		2 MS 44							B1		
			3619	3420	~~Method Blank 206~~	These are OK GKB	10	BN 3420	1.0			B1		
			3620	3421	~~MW 6~~	~~762955~~								
			3621	3422	~~MW 6 MS~~	~~762955~~								
			3622	3423	~~MW 6 MSD~~	762955								
			3623	3424	~~MW 5~~	762937								
			3624	3425	~~Field~~ Blank									
			3625	3426	Trip Blank									
↓	↓	↓	3626	3427	25 mg/ml HSL Std		↓	↓	↓			↓		
GKB	11/1	MS	DF 144		2 MS 44							B1		
GKB	11/3	MS	DF 144 3627		2 MS 44	50 mg DFTPP						B1		
GKB	11/3	MS	3627		25 mg/ml HSL Std		10	BN 3421	1.0			B2		
			3628		Method Blank 206									
			3629		Field Blank	762653								
			3630		Trip Blank	762654								
			3631		SS #20	762617								
			3632		SS #16	762620								
			3633		SS #14	762622								
			3634		SS #13	762623								
↓	↓	↓	3635		SS #12	762624	↓	↓	↓			↓		

TOTAL ION CHROMATOGRAM



Data File: >P3634::B2 Quant Output File: ^P3634::QT
Name: 2UL SS#13 BNA
Misc: 10UL BN392=>1ML HP#2 762623 BTL#68

Id File: !IDXPP::ME
Title: PRIORITY POLLUTANTS
Last Calibration: 871103 12:07

Operator ID: GLENN
Quant Time: 871103 18:27
Injected at: 871103 17:40

QUANT REPORT

Operator ID: GLENN Quant Rev: 6 Quant Time: 871103 18:27
Output File: ^P3634::QT Injected at: 871103 17:40
Data File: >P3634::B2 Dilution Factor: 1.00000
Name: 2UL SS#13 BNA
Misc: 10UL BN392=>1ML HP#2 762623 BTL#68

ID File: !IDXPP::ME
Title: PRIORITY POLLUTANTS
Last Calibration: 871103 12:07

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	11.82	395	15392	40.00	ug/mL	93
3)	2-Fluorophenol (SS)	8.67	240	30307	72.88	ug/mL	57
6)	Phenol-d6 (SS)	11.38	373	39715	75.25	ug/mL	97
14)	*NAPHTHALENE-d8	15.59	580	55998	40.00	ug/mL	59
15)	Nitrobenzene-d5 (SS)	13.54	479	25856	35.10	ug/mL	81
26)	*ACENAPHTHENE-d10	21.05	848	36010	40.00	ug/mL	91
30)	2-Fluorobiphenyl (SS)	19.10	752	44329	47.22	ug/mL	99
41)	2,4,6-Tribromophenol (SS)	23.56	971	19539	66.72	ug/mL	81
42)	*PHENANTHRENE-d10	25.61	1072	70733	40.00	ug/mL	63
50)	Di-n-Butylphthalate	27.96	1187	4941	1.69	ug/mL	85
52)	*CHRYSENE-d12	33.95	1481	67839	40.00	ug/mL	55
53)	Terphenyl-d14 (SS)	30.81	1327	60677	34.00	ug/mL	38
59)	bis(2-Ethylhexyl)Phthalate	34.61	1513	41787	18.64	ug/mL	87
61)	*PERYLENE-d12	38.10	1684	75185	40.00	ug/mL	77

* Compound is ISTD

0218

MS data file header from : >P3634

Sample: 2UL SS#13 BNA Operator: GLENN MS 11/03/87 17:40
Misc : 10UL BN392=>1ML HP#2 762623 BTL#68
Sys. #: 2 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: EXTBNA Tuning file: MT8002 No. of extra records: 2
Source temp.: 0 Analyzer temp.: 280 Transfer line temp. : 0

Chromatographic temperatures : 30. 300. 0. 0. 0.
Chromatographic times, min. : 4.0 7.3 0.0 0.0 0.0
Chromatographic rate, deg/min: 8.0 0.0 0.0 .5 0.0

>P3634 2UL SS#13 BNA 10UL BN392=>1ML HP#2 762623
35.01 500.0 CLP ADC TIC
Upslope: .20 Area Reject: 10510. Max Peaks: 4 Bunching: 1
Dnslope: 0.00 Results File IP3634 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	9.42	275	277	280	5238	11862	11422	30.68	14.257
2	33.01	1433	1435	1438	9942	42195	20136	54.09	25.134
3	37.84	1666	1671	1676	7290	152312	37226	100.00	46.467
4	40.11	1779	1782	1787	2655	89104	11329	30.43	14.141

Sum of corrected areas: 80113.

Summary of Unknowns PBM Library Search and Quantitation

Standard	Concentration	Area	Retention Time	Unknown Window
1	40.0	105102.	11.83	3.80 - 13.71
2	40.0	128693.	15.59	13.71 - 18.32
3	40.0	169683.	21.05	18.32 - 23.33
4	40.0	185831.	25.62	23.33 - 29.78
5	40.0	180414.	33.95	29.78 - 36.03
6	40.0	234290.	38.10	36.03 - 45.05

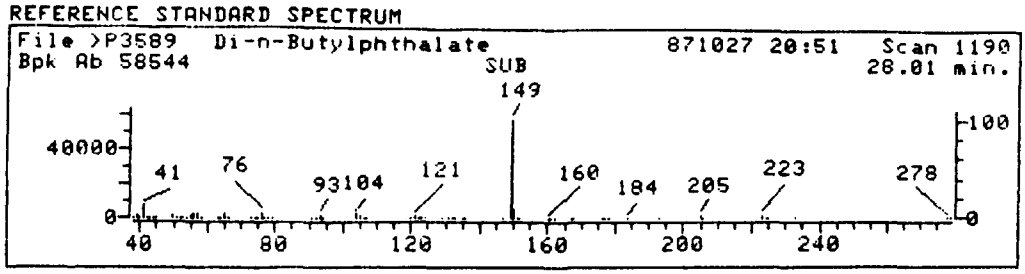
Dilution Factor (DF) = 1.00 Fractional Solids (FS) = 1.00
Amount Method (AM) = 1000.00 Amount Used (AU) = 25.05

Correction Factor = 39.92 = (AM / AU) / (DF * FS)

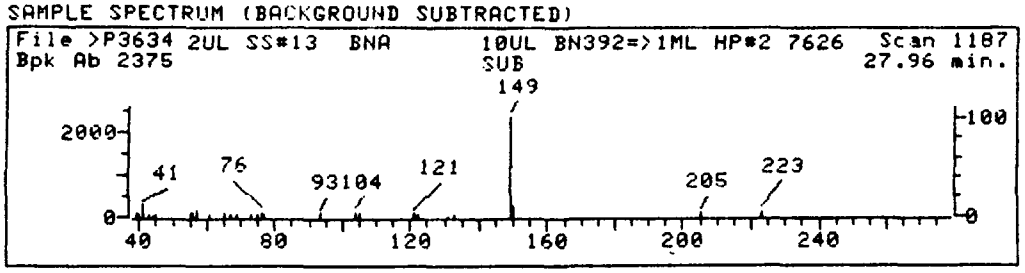
$$\text{Unknown Concentration} = \frac{\text{Conc Int Std}}{\text{Area Int Std}} * \text{Area Unk} * \text{Correction Factor}$$

6:36 PM TUE., 10 NOV., 1987

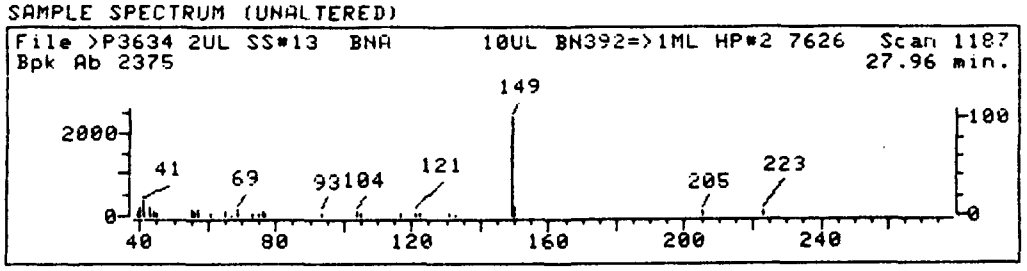
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



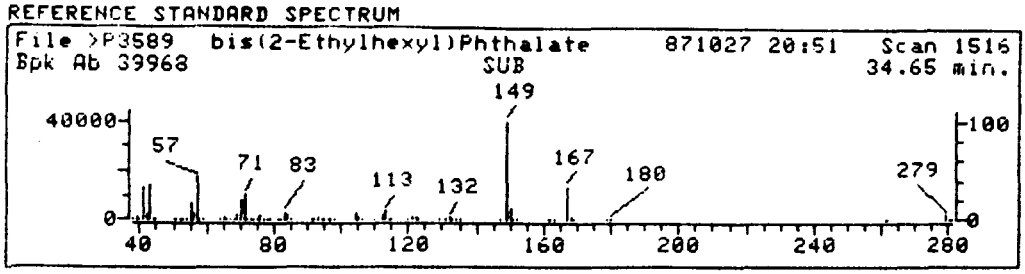
SAMPLE SPECTRUM (UNALTERED)



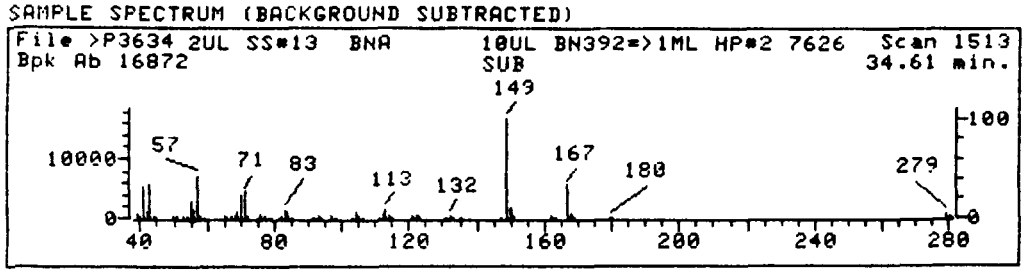
Data File: >P3634::B2 Quant Output File: ^P3634::QT
Name: 2UL SS#13 BNA
Misc: 10UL BN392=>1ML HP#2 762623 BTL#68
Quant Time: 871103 18:27 Quant ID File: !IDXPP::ME
Injected at: 871103 17:40 Last Calibration: 871103 12:07

Compound No: 50
Compound Name: Di-n-Butylphthalate
Scan Number: 1187
Retention Time: 27.96 min.
Quant Ion: 149.0
Area: 4941
Concentration: 1.69 ug/mL
q-value: 85

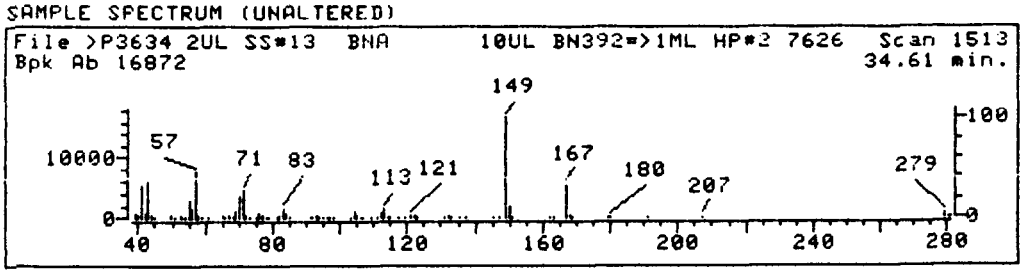
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

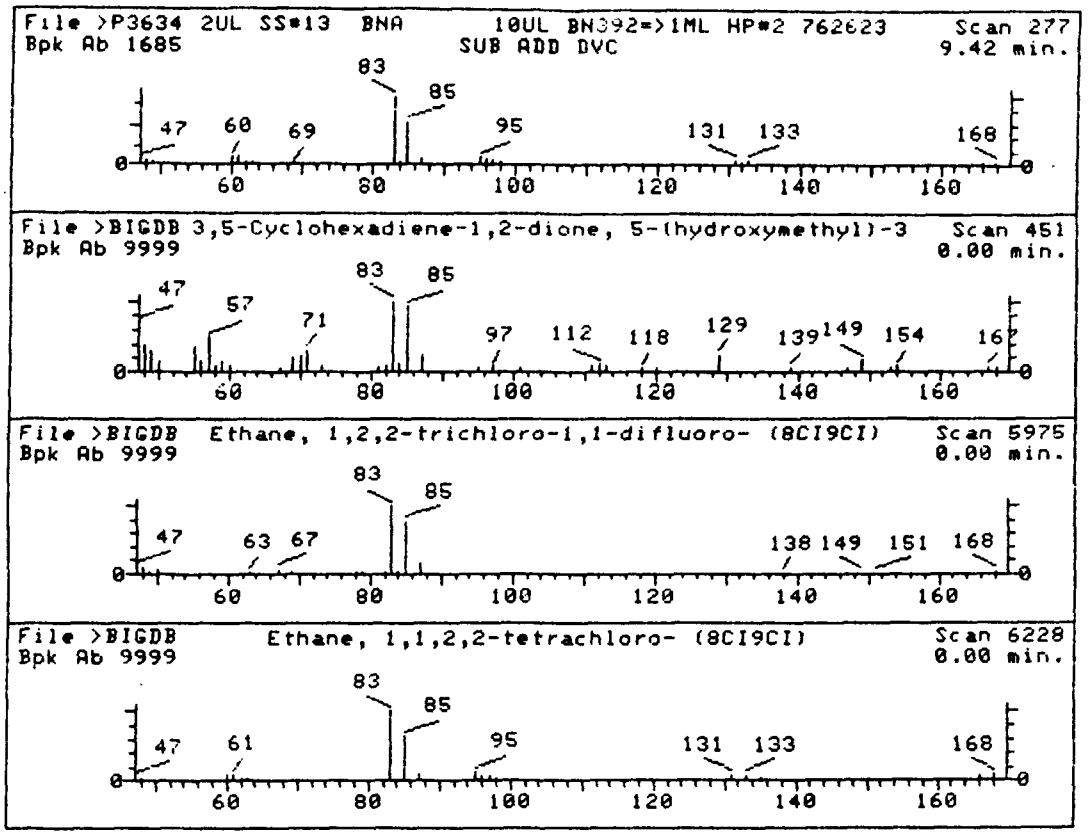


SAMPLE SPECTRUM (UNALTERED)



Data File: >P3634::82 Quant Output File: ^P3634::QT
Name: 2UL SS#13 BNA
Misc: 10UL BN392=>1ML HP#2 762623 BTL#68
Quant Time: 871103 18:27 Quant ID File: !IDXPP::ME
Injected at: 871103 17:40 Last Calibration: 871103 12:07

Compound No: 59
Compound Name: bis(2-Ethylhexyl)Phthalate
Scan Number: 1513
Retention Time: 34.61 min.
Quant Ion: 149.0
Area: 41787
Concentration: 18.64 ug/mL
q-value: 87



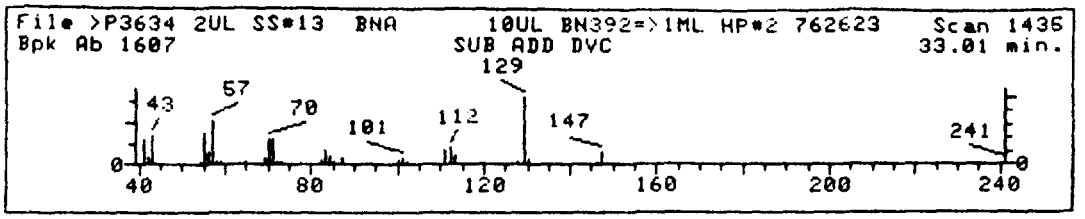
. Unknown #,1
Area = 11422.00 Tentative Concentration is 170.00

1. 3,5-Cyclohexadiene-1,2-dione, 5-(hydroxymethyl)-3-me thoxy- (9CI) 168 C8H8O4
2. Ethane, 1,2,2-trichloro-1,1-difluoro- (8CI9CI) 168 C2HCl3F2
3. Ethane, 1,1,2,2-tetrachloro- (8CI9CI) 166 C2H2Cl4

Sample file: >P3634 Spectrum #: 277
Search speed: 1 Tilting option: N No. of ion ranges searched: 56

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	52*	77745427	451	"BIGDB	24	120	3	0	67	20	20	12

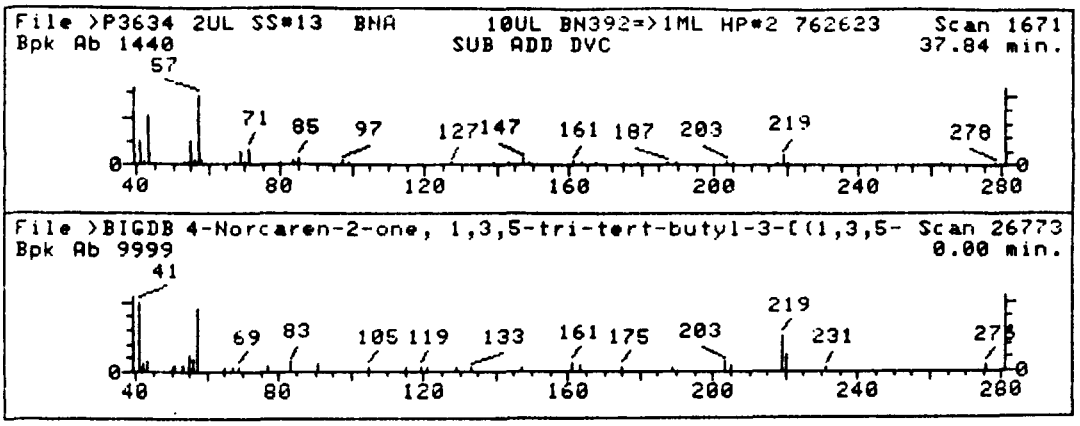
0220



. Unknown #,2
Area = 20136.00 Tentative Concentration is 180.00

Sample file: >P3634 Spectrum #: 1435

No data base entries were retrieved.



. Unknown #,3
Area = 37226.00 Tentative Concentration is 250.00

1. 4-Norcaren-2-one, 1,3,5-tri-tert-butyl-3-[(1,3,5-tri -tert-butyl-4-oxo-2,5-cyclohexadien-1-yl)methyl]- (8 CI) 550 C38H6202

Sample file: >P3634 Spectrum #: 1671
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_[	R_IU
1.	25	19719701	26773	"BIGDB	69	73	2	0	30	47	7	15

0224

H2M LABORATORY

III. 2. Reporting Package for
I.D.# Surface Soil #12

10 ... 15

CHAIN OF CUSTODY RECORD

PROJ NO.: SHMP6005 | PROJECT NAME: RI/FS North Sea Landfill

SAMPLERS: [signature] J. Angyal

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Bottle B (HNO3)	Bottle F (unpres)	Bottle I	Bottle I@ H2SO4	Bottle K 1gt Glass	Bottle K 802 Glass	Bottle K Plastic 1 Gallon Jug	Bottle H (NaOH)	REMARKS
SB#17	10/14	12:50 pm	✓		SURFACE SOIL #17	1	–	–	–	–	1	–	USE FOR MS/MSD Sample		
SB#20	10/14	2:15 pm	✓		SURFACE SOIL #20	3	–	1	–	–	–	1	1	–	– Split w/ Weiss
SB#9	10/14	2:30 pm	✓		SURFACE SOIL #9	3	–	1	–	–	–	1	1	–	–
SB#18	10/14	1:35 pm	✓		SURFACE SOIL #18	3	–	1	–	–	–	1	1	–	– Split w/ Weiss
SB#16	10/14	12:30 pm	✓		SURFACE SOIL #16	3	–	1	–	–	–	1	1	–	–
SB#15	10/14	11:8 am	✓		SURFACE SOIL #15	3	–	1	–	–	–	1	1	–	– Split w/ Weiss
SB#14	10/14	10:45 am	✓		SURFACE SOIL #14	3	–	1	–	–	–	1	1	–	–
SB#13	10/14	10:5 am	✓		SURFACE SOIL #13	3	–	1	–	–	–	1	1	–	–
SB#12	10/14	9:35 am	✓		SURFACE SOIL #12	3	–	1	–	–	–	2		–	1 clear / 1 Brown
SB#11	10/14	9:15 am	✓		SURFACE SOIL #11	3	–	1	–	–	–	2		–	1 clear / 1 Brown
	10/14	8:20 am		✓	Field Blank	5	1	–	2	1	–	–	–	–	1 – filled 1st thing
	10/13	1400 HRS	–	✓	Trip Blank	5	1	–	2	1	–	–	–	–	1
	10/13	1430 HRS	–	✓	Field Blank Water	2	–	–	–	–	–	–	–	2	–

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	10/14/87 0700	James Angyal			
[signature] J. Angyal	10/14/87				

Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks
[signature] J. Angyal	10/14/87	[signature]	10/14/87 1815	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

0220

H2M LABORATORY

Full CLP + ICC

Town of Southampton
North Sea Land fill
ID# SHMP 8605

Page 1

Continuing Chain of Custody

Samples Received by Jim Padilla date 10/14/87 time 1815 HRS.

Signature Jim Padilla

No. of bottles received	client sample ID's	type	H2M lab no. x·BN x·AE x·PH
1	surface soil #20	amber glass 40z 1	762617
1	surface soil #19	" "	762618
1	surface soil #18	" "	762619
1	surface soil #16	" "	762620
1	surface soil #15	" "	762621
1	surface soil #14	" "	762622
1	surface soil #13	" "	762623
1	surface soil #12	" "	762624
1	surface soil #11	" "	762625
2	Field Blank	2 I	762653
2	Trip Blank	2 I	762654

Sample Relinquished by	Sample Received by	Date	Time	Bottle Type	Reason
Jim Padilla	K Barthman	10/15/87	1740 HRS	ALL	Storage / Analysis
K Barthman	Mark J. Gaetke	10/19/87	0900 HRS	762653 762654	Extraction concen
Mark J. Gaetke	K Barthman	10/19/87	1600 HRS	762653 762654	storage
K Barthman	Glenn K Bartholomew	10/20/87	1500	All vials	Analysis

0227

SAMPLE PREPARATION FOR ORGANIC PRIORITY POLLUTANT EXTRACTABLES

H2M LABS, INC.

Environmental and Industrial Analytical Laboratory
575 Broad Hollow Road, Melville, NY 11747-5076

(516) 694-3040

LAB #	762617	762618	762619	762620	762621	762622	762623	762624
LAB # PP								
Client Client Sample #	TSH SS#20	TSH SS#19	TSH SS#18	TSH SS#16	TSH SS#15	TSH SS#14	TSH SS#13	TSH SS#12
SCANS	BNA	BNA	BNA	BNA	BNA	BNA	BNA	BNA
PROTOCOL	CLP	CLP	CLP	CLP	CLP	CLP	CLP	CLP
EXTRACTION DATE	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-2
ANALYST	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB
METHOD	SOM	SOM	SOM	SOM	SOM	SOM	SOM	SOM
SAMPLE VOLUME (g)	25.0967	25.0754	25.0019	25.0848	25.0259	25.0690	25.0532	25.0058
SURROGATE NUMBER/VOLUME	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each
MATRIX SPIKE NUMBER/VOLUME								
BN EXTRACT SPLIT	N	N	N	N	N	N	N	N
CONCENTRATED DATE/INITIALS BN/AE	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB
CONCENTRATION VOLUME BN	—	—	—	—	—	—	—	—
CONCENTRATION VOLUME AE	—	—	—	—	—	—	—	—
(SOIL) BNA	5ml	1ml	1ml	5ml	1ml	5ml	5ml	5ml
PP CONCENTRATED DATE/ANALYST								
PP CONCENTRATION VOLUME								
ALUMINA CLEANED								
Bio-Bead Cleaned	BB			BB		BB	BB	BB
REMARKS								229

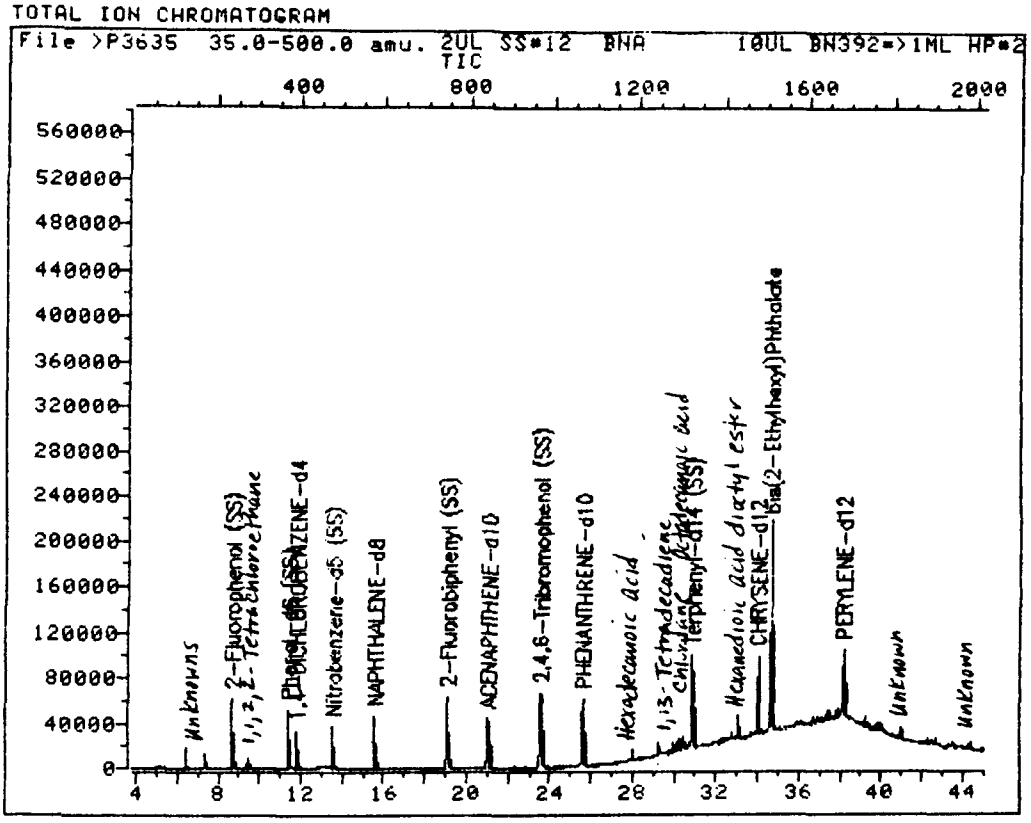
Semi-Volatile BNA

4

Sample # / Lab #	Comments	Extraction solvent / Sol. #	Sol. Vol.	Storage Info. Tape	C.R.N.	Track	QUANT.	Reported Date
GKB 10/31 MS 3609	SS-18	762619	10 BN 3521	1.0		B2		
3610	SS-15	762621						
3611	MW-5A	762952						
3612	MW-5B	762955						
3613	762911							
3614	763340							
3615	763341							
3616	763343							
3617	030/30	761657						
3618	West Stockpile							
GKB 10/30 MS DF 147	MS 44					B1		
3619 3620	~~Method Blank 208~~	These on OK GKB	10 BN 3521	1.0		B1		
3620 3621	~~MW6~~	~~762955~~						
3621 3622	~~MW6 MS~~	~~762955~~						
3622 3623	~~MW6 MSD~~	762955						
3623 3624	~~MW2~~	762957						
3624 3625	~~Field~~ Blank							
3625 3626	Trip Blank							
3626 3627	25 mg/ml HSL Std							
GKB 11/1 MS DF144	MS 44					B1		
GKB 11/3 MS DF149 3627	MS 44	50 mg DFTPP				B1		
GKB 11/3 MS 3627	25 mg/ml HSL Std		10 BN 3521	1.0		B2		
3628	Method Blank 206							
3629	Field Blank	762653						
3630	Trip Blank	762654						
3631	SS #20	762617						
3632	SS #16	762620						
3633	SS #14	762622						
3634	SS #13	762623						
3635	SS #12	762624						

6220

TOTAL ION CHROMATOGRAM



Data File: >P3635::B2 Quant Output File: ^P3635::QT
Name: 2UL SS#12 BNA
Misc: 10UL BN392=>1ML HP#2 762624 BTL#69

Id File: !IDXPP::ME
Title: PRIORITY POLLUTANTS
Last Calibration: 871103 12:07

Operator ID: GLENN
Quant Time: 871103 19:24
Injected at: 871103 18:37

QUANT REPORT

Operator ID: GLENN Quant Rev: 6 Quant Time: 871103 19:24
Output File: ^P3635::QT Injected at: 871103 18:37
Data File: >P3635::B2 Dilution Factor: 1.00000
Name: 2UL SS#12 BNA
Misc: 10UL BN392=>1ML HP#2 762624 BTL#69

ID File: !IDXPP::ME
Title: PRIORITY POLLUTANTS
Last Calibration: 871103 12:07

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	11.82	395	13206	40.00	ug/mL	92
3)	2-Fluorophenol (SS)	8.66	240	33594	94.15	ug/mL	61
6)	Phenol-d6 (SS)	11.39	374	50777	112.14	ug/mL	89
14)	*NAPHTHALENE-d8	15.59	580	51552	40.00	ug/mL	59
15)	Nitrobenzene-d5 (SS)	13.53	479	33415	49.27	ug/mL	84
26)	*ACENAPHTHENE-d10	21.05	848	40289	40.00	ug/mL	93
30)	2-Fluorobiphenyl (SS)	19.09	752	69447	66.12	ug/mL	98
41)	2,4,6-Tribromophenol (SS)	23.57	972	41554	126.82	ug/mL	76
42)	*PHENANTHRENE-d10	25.63	1073	90735	40.00	ug/mL	68
52)	*CHRYSENE-d12	33.99	1481	105183	40.00	ug/mL	52
53)	Terphenyl-d14 (SS)	30.85	1328	121040	43.75	ug/mL	38
59)	bis(2-Ethylhexyl)Phthalate	34.66	1514	214913	61.81	ug/mL	87
61)	*PERYLENE-d12	38.18	1685	111931	40.00	ug/mL	79

* Compound is ISTD

MS data file header from : >P3635

Sample: 2UL SS#12 BNA Operator: GLENN MS 11/03/87 18:37
Misc : 10UL BN392=>1ML HP#2 762624 BTL#69
Sys. #: 2 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: EXTBNA Tuning file: MT8002 No. of extra records: 2
Source temp.: 0 Analyzer temp.: 280 Transfer line temp. : 0

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	4.0	7.3	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	.5	0.0

>P3635 2UL SS#12 BNA 10UL BN392=>1ML HP#2 762624
35.01 500.0 CLP ADC TIC
Upslope: .20 Area Reject: 8742. Max Peaks: 15 Bunching: 1
Dnslope: 0.00 Results File IP3635 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	6.38	125	128	130	19047	40470	38599	64.94	7.877
2	7.34	172	175	177	13333	35576	34329	57.76	7.006
3	9.42	274	277	284	9458	19938	19119	32.17	3.902
4	27.94	1183	1186	1193	9370	115966	33810	56.88	6.900
5	29.19	1245	1247	1249	11015	88879	34960	58.82	7.134
~~6~~	29.90	1279	1282	1284	8731	101508	20047	33.73	4.091
7	30.27	1298	1300	1303	10168	121760	28361	47.72	5.788
8	30.42	1303	1307	1313	11786	238580	51887	87.30	10.589
~~9~~	32.18	1391	1393	1396	3883	146124	10001	16.83	2.041
~~10~~	32.73	1418	1420	1422	6900	139169	15670	26.36	3.198
11	33.04	1433	1435	1437	20773	165602	40898	68.81	8.346
~~12~~	37.42	1646	1648	1651	8360	288268	26579	44.72	5.424
13	40.95	1817	1820	1830	12146	441107	59438	100.00	12.130
~~14~~	42.66	1900	1903	1906	6644	170698	25794	43.40	5.264
15	44.36	1982	1986	1994	7786	273351	50524	85.00	10.311

Sum of corrected areas: 490016.

Summary of Unknowns PBM Library Search and Quantitation

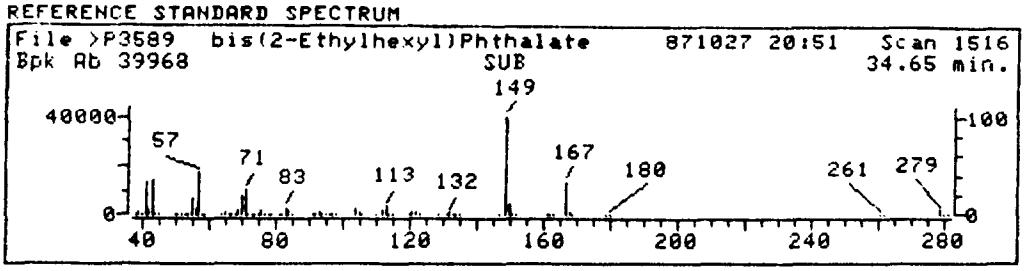
Standard	Concentration	Area	Retention Time	Unknown Window
1	40.0	87420.	11.82	3.80 - 13.70
2	40.0	119846.	15.59	13.70 - 18.32
3	40.0	184637.	21.05	18.32 - 23.34
4	40.0	218537.	25.63	23.34 - 29.81
5	40.0	256695.	33.99	29.81 - 36.08
6	40.0	264869.	38.18	36.08 - 45.03

Dilution Factor (DF) = 1.00 Fractional Solids (FS) = 1.00
Amount Method (AM) = 1000.00 Amount Used (AU) = 25.01
6:02 PM TUE., 10 NOV., 1987

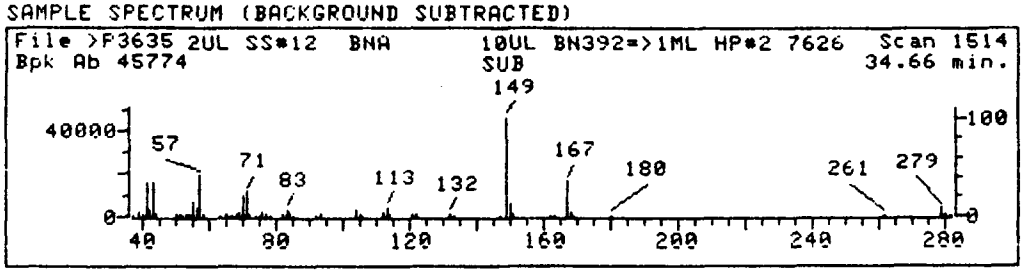
0232

File >P3635 35.0-500.0 amu. 2UL SS#12 BNA 10UL BN392=>1ML HP#2 76
ADC TIC

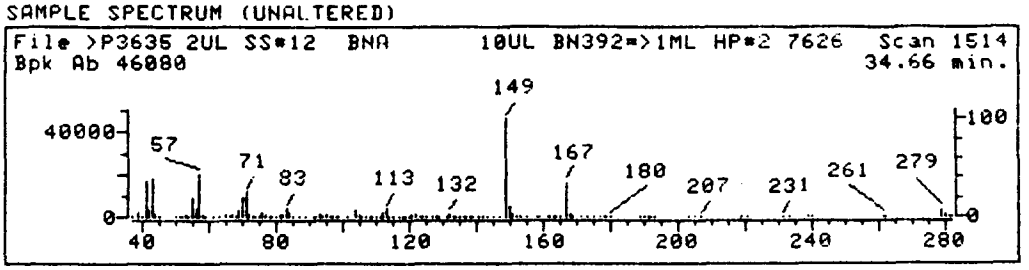
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

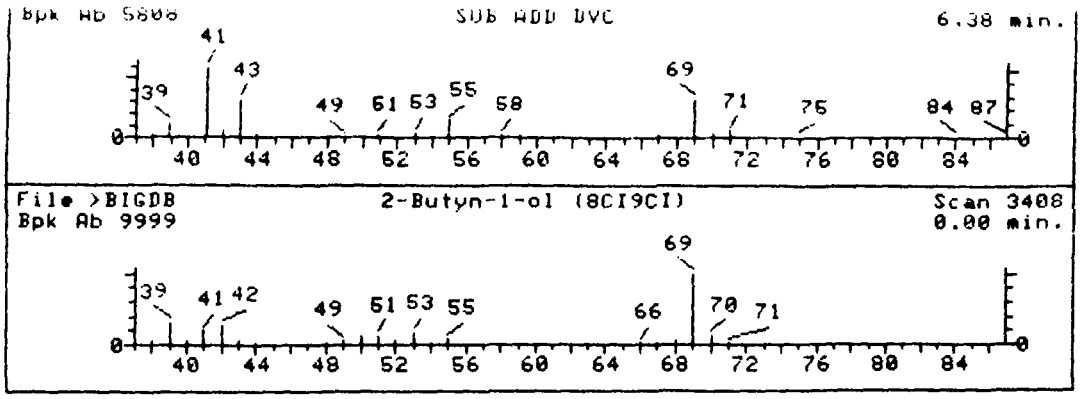


SAMPLE SPECTRUM (UNALTERED)



Data File: >P3635::B2 Quant Output File: ^P3635::QT
Name: 2UL SS#12 BNA
Misc: 10UL BN392=>1ML HP#2 762624 BTL#69
Quant Time: 871103 19:24 Quant ID File: !IDXPP::ME
Injected at: 871103 18:37 Last Calibration: 871103 12:07

Compound No: 59
Compound Name: bis(2-Ethylhexyl)Phthalate
Scan Number: 1514
Retention Time: 34.66 min.
Quant Ion: 149.0
Area: 214913
Concentration: 61.81 ug/mL
q-value: 87

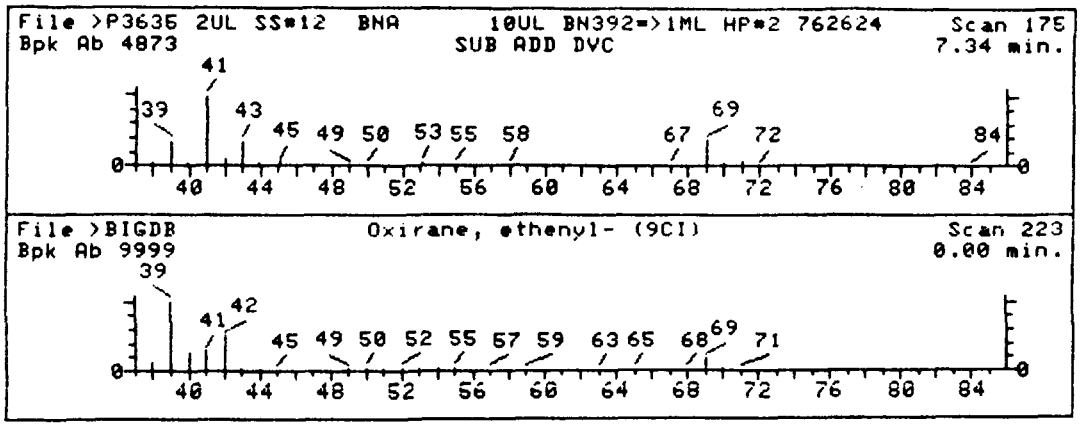


. Unknown #,1
Area = 38599.00 Tentative Concentration is 710.00

1. 2-Butyn-1-ol (8CI9CI) 70 C4H6O

Sample file: >P3635 Spectrum #: 128
Search speed: 1 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	31*	764012	3408	"BIGDB	27	53	2	0	41	31	12	14

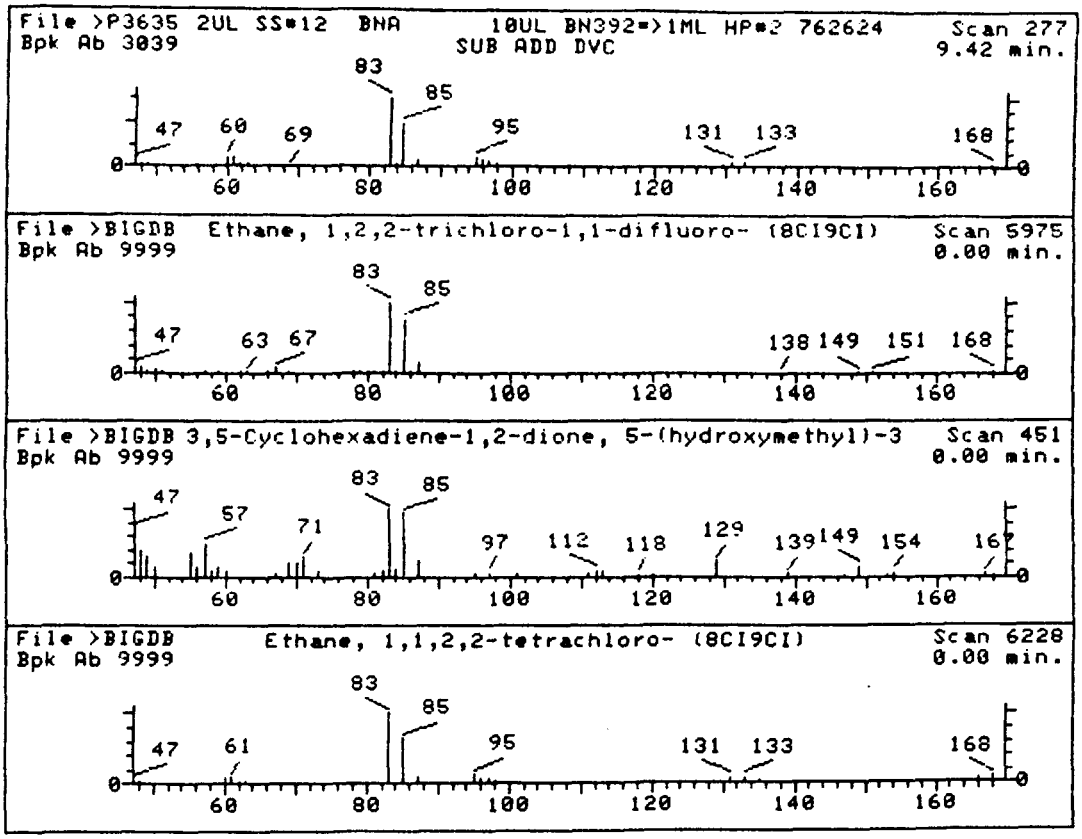


. Unknown #,2
Area = 34329.00 Tentative Concentration is 630.00

1. Oxirane, ethenyl- (9CI) 70 C4H6O

Sample file: >P3635 Spectrum #: 175
Search speed: 1 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	15*	930223	223	"BIGDB	27	45	3	0	36	60	3	13



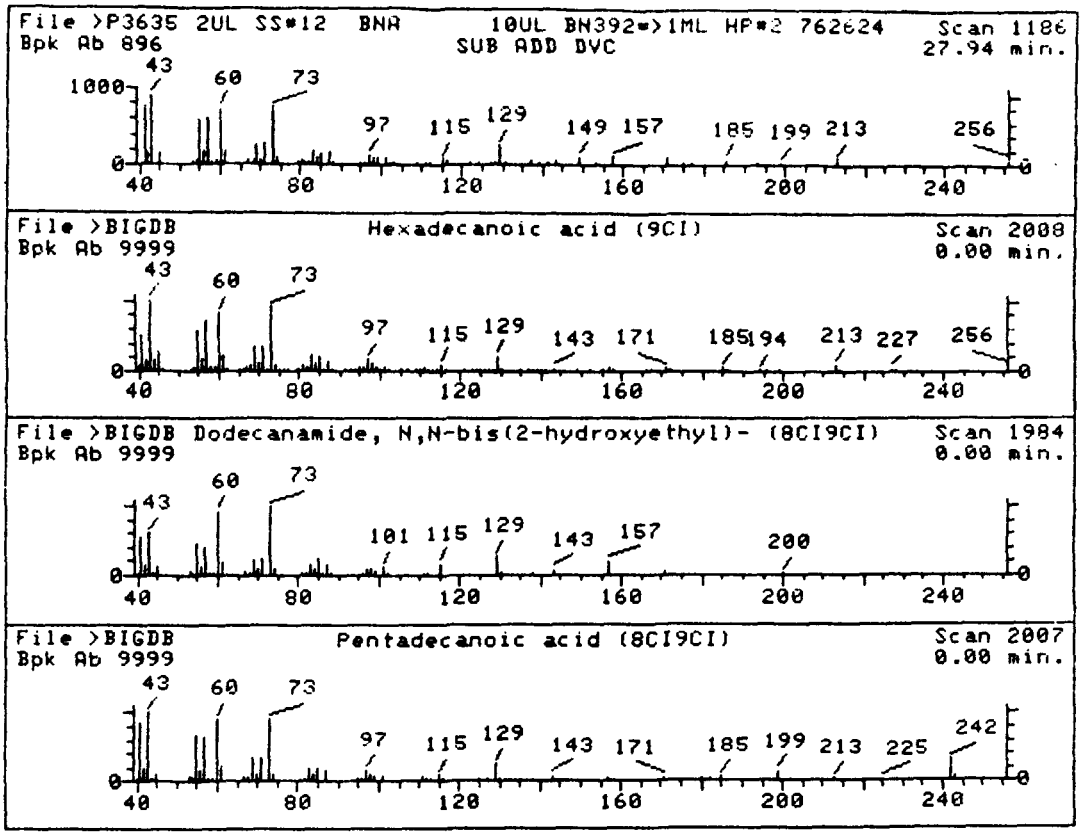
. Unknown #,3
Area = 19119.00 Tentative Concentration is 350.00

1.	Ethane, 1,2,2-trichloro-1,1-difluoro- (8CI9CI)	168 C2HCl3F2
2.	3,5-Cyclohexadiene-1,2-dione, 5-(hydroxymethyl)-3-methoxy- (9CI)	168 C8H8O4
3.	Ethane, 1,1,2,2-tetrachloro- (8CI9CI)	166 C2H2Cl4

Sample file: >P3635 Spectrum #: 277
Search speed: 1 Tilting option: N No. of ion ranges searched: 56

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	63*	354212	5975	"BIGDB	56	46	2	0	72	16	30	33

0236



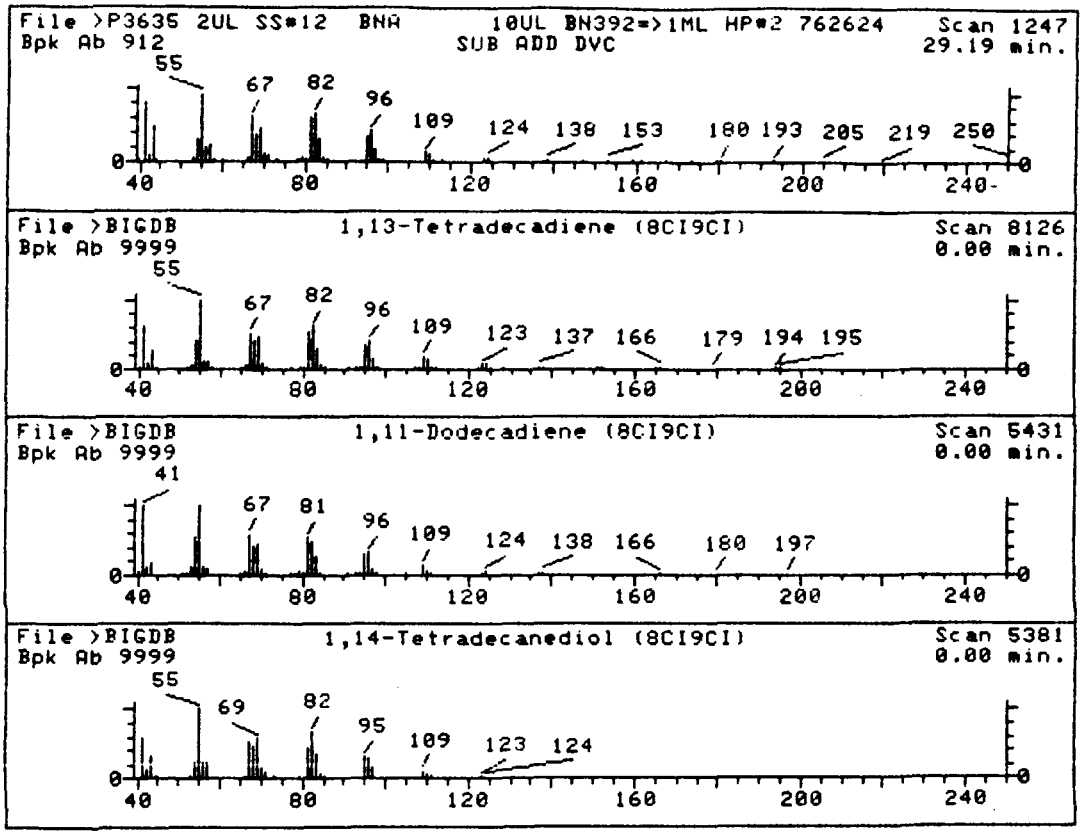
. Unknown #,4
Area = 33810.00 Tentative Concentration is 250.00

1.	Hexadecanoic acid (9CI)	256 C16H32O2
2.	Dodecanamide, N,N-bis(2-hydroxyethyl)- (8CI9CI)	287 C16H33NO3
3.	Pentadecanoic acid (8CI9CI)	242 C15H30O2
4.	Tetradecanoic acid (9CI)	228 C14H28O2
5.	Dodecanoic acid, silver(1+) salt (9CI)	0
6.	Dodecanoic acid (9CI)	200 C12H24O2
7.	Glycine, N-methyl-N-(1-oxododecyl)- (9CI)	271 C15H29NO3

Sample file: >P3635 Spectrum #: 1186
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	91*	57103	2008	"BIGDB	93	58	1	0	80	22	53	92

0237

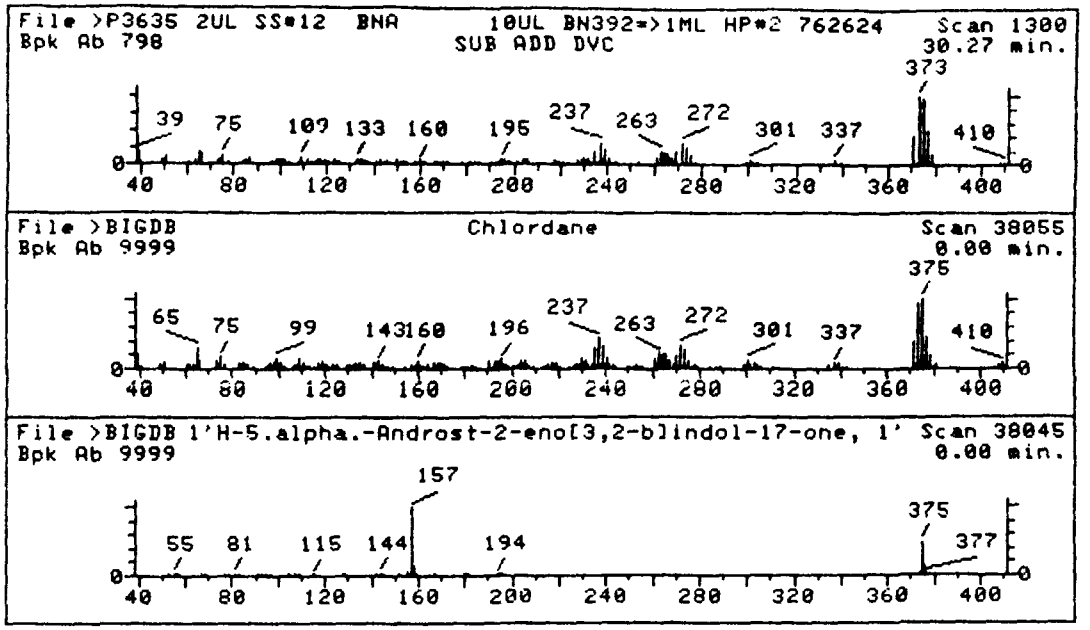


. Unknown #,5
Area = 34960.00 Tentative Concentration is 260.00

1.	1,13-Tetradecadiene (8CI9CI)	194 C14H26
2.	1,11-Dodecadiene (8CI9CI)	166 C12H22
3.	1,14-Tetradecanediol (8CI9CI)	230 C14H30O2
4.	1,12-Tridecadiene (8CI9CI)	180 C13H24
5.	9-Octadecen-1-ol, (Z)- (8CI9CI)	268 C18H36O
6.	Cyclododecanol (8CI9CI)	184 C12H24O
7.	Cyclododecene, (E)- (8CI9CI)	166 C12H22

Sample file: >P3635 Spectrum #: 1247
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	86	21964498	8126	"BIGDB	116	12	1	0	85	10	59	72
2.	78*	5876879	5431	"BIGDB	78	35	1	0	87	30	37	76
3.	73	19812647	5381	"BIGDB	84	59	0	0	79	25	38	61
4.	70*	21964487	5398	"BIGDB	86	35	3	0	100	18	36	52

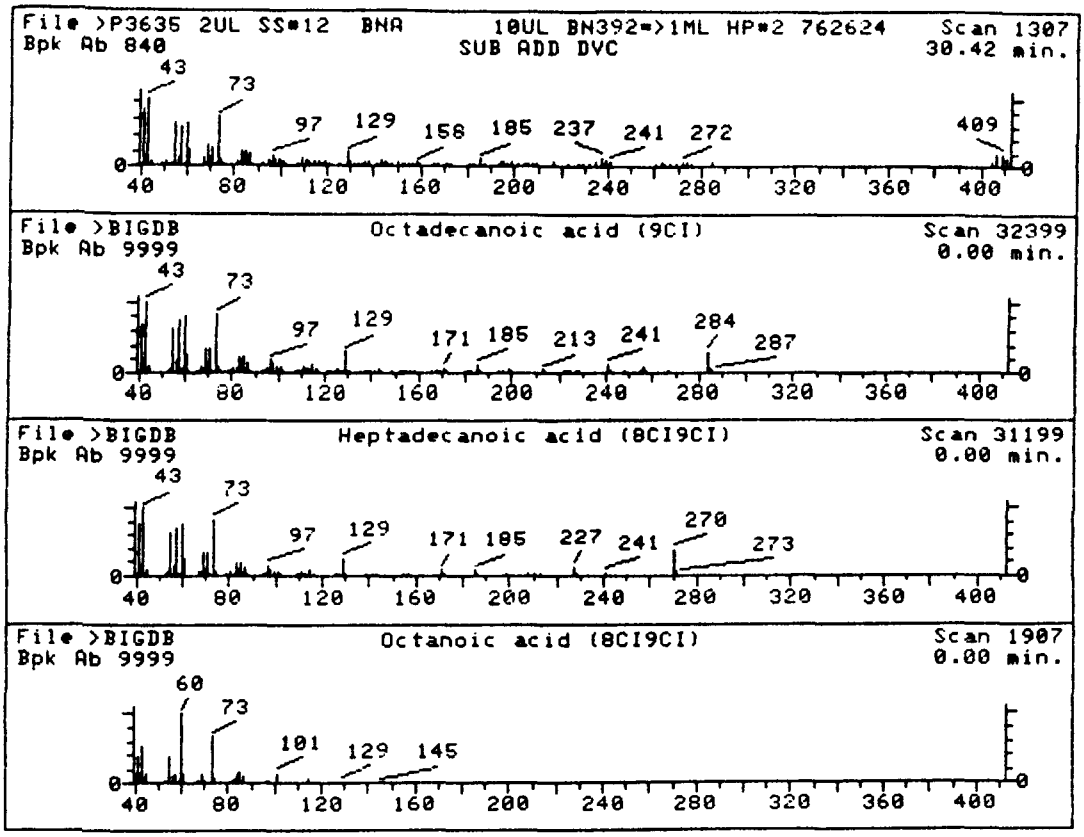


. Unknown #,7
Area = 28361.00 Tentative Concentration is 180.00

1.	Chlordane	406	C10H6C18
2.	1'H-5.alpha.-Androst-2-eno[3,2-b]indol-17-one, 1'-methyl- (8CI)	375	C26H33NO

Sample file: >P3635 Spectrum #: 1300
Search speed: 1 Tilting option: N No. of ion ranges searched: 47

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	98*	57749	38055	"BIGDB	175	46	2	0	71	14	64	99



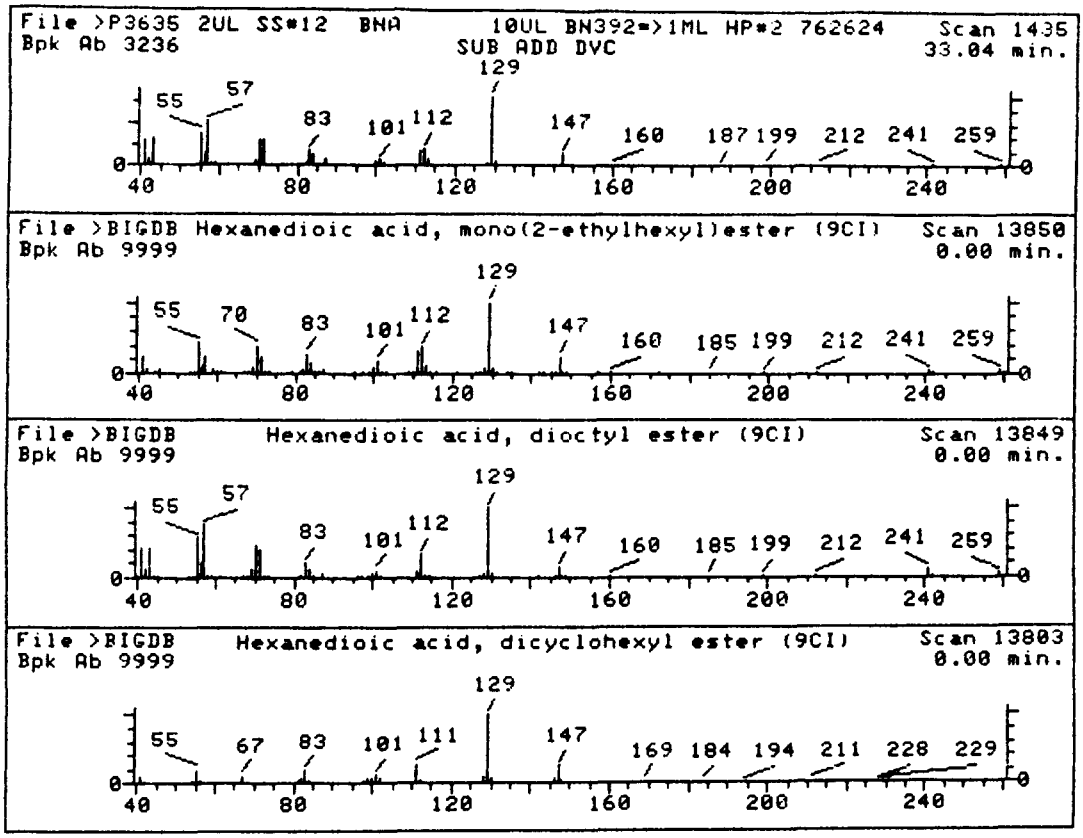
. Unknown #,8
Area = 51887.00 Tentative Concentration is 320.00

1.	Octadecanoic acid (9CI)	284 C18H36O2
2.	Heptadecanoic acid (8CI9CI)	270 C17H34O2
3.	Octanoic acid (8CI9CI)	144 C8H16O2
4.	Tetradecanoic acid (9CI)	228 C14H28O2
5.	Tridecanoic acid (8CI9CI)	214 C13H26O2
6.	Dodecanamide, N,N-bis(2-hydroxyethyl)- (8CI9CI)	287 C16H33NO3
7.	Nonanoic acid (8CI9CI)	158 C9H18O2

Sample file: >P3635 Spectrum #: 1307
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	26	57114	32399	"BIGDB	112	53	2	0	70	59	7	56

0240



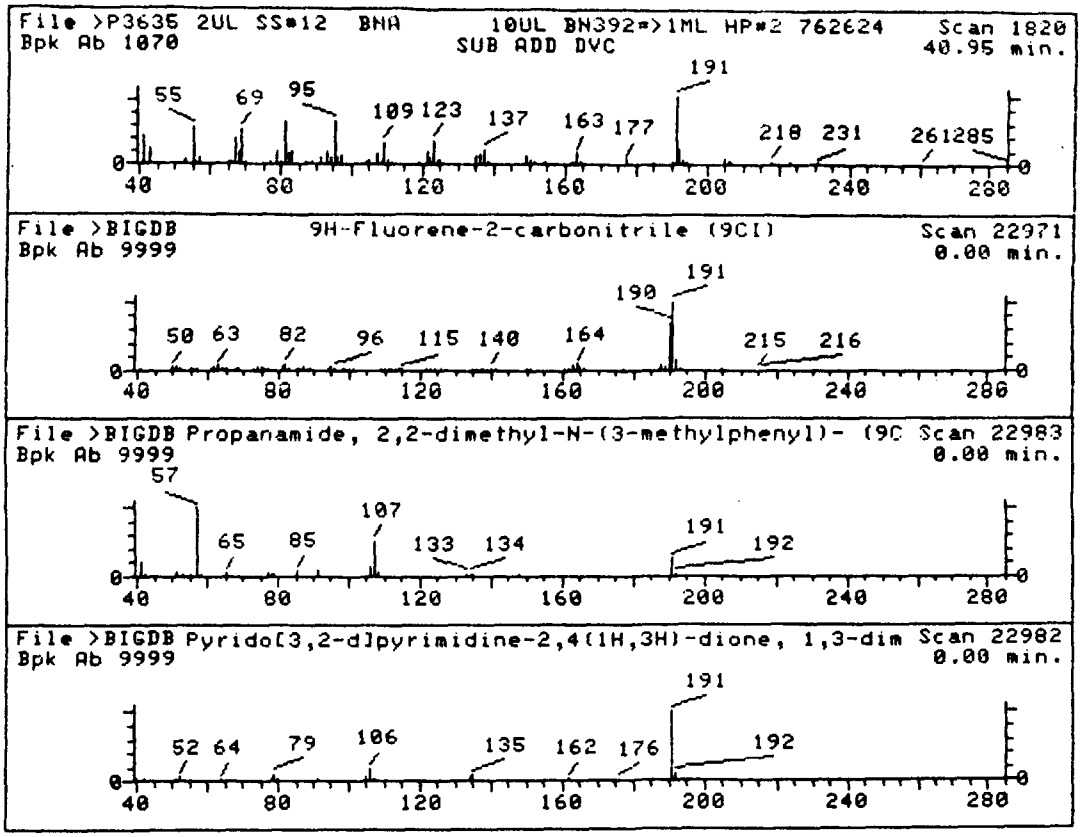
. Unknown #,11
Area = 40898.00 Tentative Concentration is 250.00

1.	Hexanedioic acid, mono(2-ethylhexyl)ester (9CI)	258 C14H2604
2.	Hexanedioic acid, dioctyl ester (9CI)	370 C22H4204
3.	Hexanedioic acid, dicyclohexyl ester (9CI)	310 C18H3004
4.	1,3,5-Triazine-2,4,6(1H,3H,5H)-trione (9CI)	129 C3H3N303

Sample file: >P3635 Spectrum #: 1435
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	73	4337659	13850	"BIGDB	97	48	0	0	56	29	37	71

0241

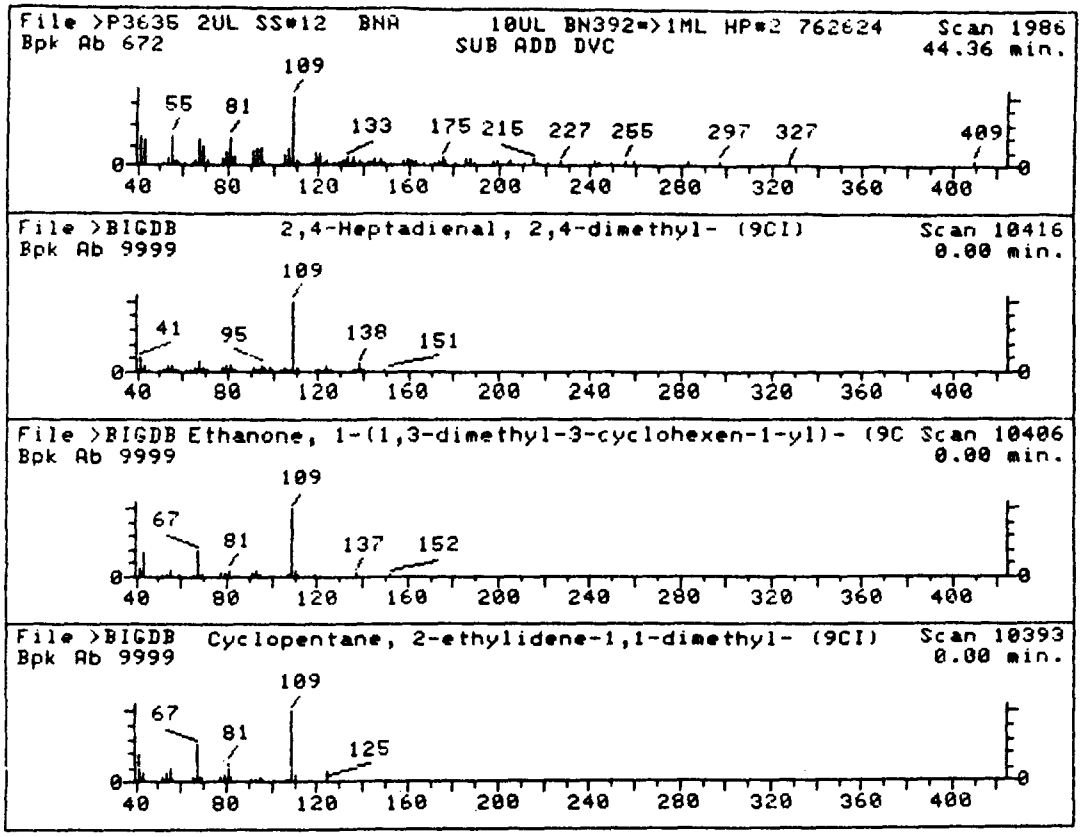


. Unknown #,13
Area = 59438.00 Tentative Concentration is 360.00

1.	9H-Fluorene-2-carbonitrile (9CI)	191	C14H9N
2.	Propanamide, 2,2-dimethyl-N-(3-methylphenyl)- (9CI)	191	C12H17NO
3.	Pyrido[3,2-d]pyrimidine-2,4(1H,3H)-dione, 1,3-dimethyl- (8CI)	191	C9H9N3O2
4.	1H-Indole-3-acetic acid, 5-hydroxy- (9CI)	191	C10H9NO3

Sample file: >P3635 Spectrum #: 1820
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	36*	2523480	22971	"BIGDB	39	70	3	0	100	27	14	13



. Unknown #,15
Area = 50524.00 Tentative Concentration is 310.00

1.	2,4-Heptadienal, 2,4-dimethyl- (9CI)	138 C9H14O
2.	Ethanone, 1-(1,3-dimethyl-3-cyclohexen-1-yl)- (9CI)	152 C10H16O
3.	Cyclopentane, 2-ethylidene-1,1-dimethyl- (9CI)	124 C9H16
4.	Phenol, 3-amino- (9CI)	109 C6H7NO
5.	1-Octen-3-ol, 3,7-dimethyl- (8CI9CI)	156 C10H20O
6.	Pyridine, 4-methoxy- (8CI9CI)	109 C6H7NO

Sample file: >P3635 Spectrum #: 1986
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	32*	42452482	10416	"BIGDB	33	57	1	0	70	40	10	18

H2M LABORATORY

III. 2. Reporting Package for
I.D.# Surface Soil #11

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME
SHMP9005	RI/FS North Sea Landfill

SAMPLERS (Signature): J. Angyal

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Bottle B (HNO3)	Bottle F (unpres)	Bottle I	Bottle I(P) H2SO4	Bottle K 1-2+ Glass	Bottle K 8oz Glass	Bottle K Plastic 1 Gallon Jug	Bottle H (NaOH)	REMARKS
SO	10/14	12:[illegible] Pm	✓		SURFACE SOIL #17	1	–	–	–	–	1	–	USE FOR MS/MSD Sample		
SO	10/14	2[illegible] Pm	✓		SURFACE SOIL #20	3	–	1	–	–	–	1	1	–	– Split w/ Versar
SO	10/14	2:[illegible] Pm	✓		SURFACE SOIL #19	3	–	1	–	–	–	1	1	–	–
SO[illegible]B	10/14	1:[illegible] Pm	✓		SURFACE SOIL #18	3	–	1	–	–	–	1	1	–	– Split w/ Versar
SO	10/14	10:[illegible] Am	✓		SURFACE SOIL #16	3	–	1	–	–	–	1	1	–	–
SO#15	10/14	11:[illegible] Am	✓		SURFACE SOIL #15	3	–	1	–	–	–	1	1	–	– Split w/ Versar
SO	10/14	9:[illegible] Am	✓		SURFACE SOIL #14	3	–	1	–	–	–	1	1	–	–
SO	10/14	10:[illegible] Am	✓		SURFACE SOIL #13	3	–	1	–	–	–	1	1	–	–
SO	10/14	12:[illegible] Pm	✓		SURFACE SOIL #12	3	–	1	–	–	–	2		–	1 clear / 1 Brown
SO	10/14	9:[illegible] Am	✓		SURFACE SOIL #11	3	–	1	–	–	–	2		–	1 clear / 1 Brown
	10/14	8:[illegible] Am		✓	Field Blank	5	1	–	2	1	–	–	–	–	1 – filled 1st thing
	10/13	1400 HRS	–	✓	Trip Blank	5	1	–	2	1	–	–	–	–	1
	10/13	1430 HRS	–	✓	Field Blank Water	2	–	–	–	–	–	–	–	2	–

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Steven W. Hurrell	10/14/87 0700	James Angyal			
J. Angyal	10/14/87				

Received for Laboratory by: (Signature)	Date / Time	Remarks
[illegible]	10/14/87 1815	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

0245

HLM LABORATORY

Full CLP + COC

Town of Southampton
North Sea Land fill
ID# SHMP 8605

Continuing Chain of Custody

Samples Received by Jim Padilla date 10/14/87 time 1815 HRS.

Signature

No. of bottles received		client sample ID#	type	HLM lab no. x.BN x.AE x.PH
1	surface soil #20	amber glass 40z	1	762617
1	surface soil #19	"	"	762618
1	surface soil #18	"	"	762619
1	surface soil #16	"	"	762620
1	surface soil #15	"	"	762621
1	surface soil #14	"	"	762622
1	surface soil #13	"	"	762623
1	surface soil #12	"	"	762624
1	surface soil #11	"	"	762625
2	Field Blank	2 I		762653
2	Trip Blank	2 I		762654

Sample Relinquished by	Sample Received by	Date	Time	Bottle Type	Reason
		10/15/87	1740 hrs	ALL	storage / Analysis
		10/9/87	0900 hrs	762653 762654	Extraction concern
		10/19/87	1600 hrs	762653 762654	storage
		10/20/87	1500	All vials	Analysis

9520

SAMPLE PREPARATION FOR ORGANIC PRIORITY POLLUTANT EXTRACTABLES

H2M LABS, INC.

Environmental and Industrial Analytical Laboratory
575 Broad Hollow Road, Melville, NY 11747-5076

(516) 694-3040

LAB #	762625	762613	762613	762613	762824	762911	B-208	762933
LAB # PP								762924
Client Client Sample #	TSH SS#11	TSH SS#17	TSH SS#17	TSH SS#17	DPW	ESTER LANGE		T
SCANS	BNA	MS BNA	MSD BNA	BNA	BE	BN/BE	BN/AE PP	BN/AE PP
PROTOCOL	CLP	CLP	CLP	CLP			CLP	CLP
EXTRACTION DATE	10-20	10-20	10-20	10-20	10-23	10-23	10-23	10-23
ANALYST	TAB	TAB	TAB	TAB	"	"	MFB	MFB
METHOD	SON	SON	SON	SON	SF	SF	SF	SF
SAMPLE VOLUME g	25.0652	25.1028	25.1134	25.2888	500 ml	1000 ml	1000 ml	1000 ml
SURROGATE NUMBER/VOLUME	BN486 PH 193 1ml each	BN486 PH193 1ml each	BN486 PH193 1ml each	BN486 PH193	PH 193 1 ml	BN 486 PH 193 1ml each	BN486 PH 193 1ml each	BN486 PH 193 1ml each
MATRIX SPIKE NUMBER/VOLUME		BN 484 PH 191 1ml each	BN 484 PH 191 1ml each					
BN EXTRACT SPLIT	N	N	N	N	N	N	Y	Y
CONCENTRATED DATE/INITIALS BN/AE	TAB	TAB	TAB	TAB				
CONCENTRATION VOLUME BN	—	—	—	—	—	0.5 ml	0.5 ml	0.5 ml
AE	—	—	—	—	5 ml	0.5 ml	0.5 ml	1 ml
(SOIL) BNA	5 ml	3 ml	3 ml	3 ml	—	—	—	—
PP CONCENTRATED DATE/ANALYST								
PP CONCENTRATION VOLUME								
ALUMINA CLEANED								
BioBead Cleaned	BB	BB	BB	BB	BB	—	—	—
REMARKS								

Semi-Volatile BNA

A	date	direct inj.	RUN #	STD SOL. #	Client	µl	Sample # / Lab #	Comments	Internal Standard µl	Sol. #	Sol. Vol.	Tape	CRN.	TRACK	QUANT.	Reported	Date
GKB	11/3	MJ	3636			2	SS#11	762625	10	BN 592	1.0			B2			
			3637				SS#17	762613									
			3638				SS#17 MS	762613									
			3639				SS#17 MSD	762613									
GKB	11/4	MJ	DF 150			2	MS 44							B1			
			3640				25 µg/ml HSL		10	BN 592	1.0			B1			
			3641				Method Blank 211							B3			
			3642				MW1A	763388									
			3643				MW1A MS	763388									
			3644				MW1A MSD	763388									
			3645				MW1B	763392									
			3646				MW1C	763396									
			3647				Field Blank	763400									
			3648				Trip Blank	763404									
			3649				Method Blank 212										
			3650				MW 4B	763428									
			3651				MW4B MS	763428									
			3652				MW 4B MSD	763428									
			3653				763417 BNA										
			3654				763342 BNA										
			3655				763281 XAE										
			3656				762824 XAE										
GKB	11/5	MJ	DF 151			2	MS 44	50 ng DFTPP						B1			
			3657				25 µg/ml HSL Std		10	BN 592	1.0			B3			
			3658				MW 4A										
			3659				MW 4C										
			3660				Field Blank										
			3661				Trip Blank										
			3662				Method Blank 213										
			3663				MW 3C										

QUANT REPORT

Operator ID: GLENN
Output File: ^P3636::QT
Data File: >P3636::B2
Name: 2UL SS#11 BNA
Misc: 10UL BN392=>1ML HP#2 762625

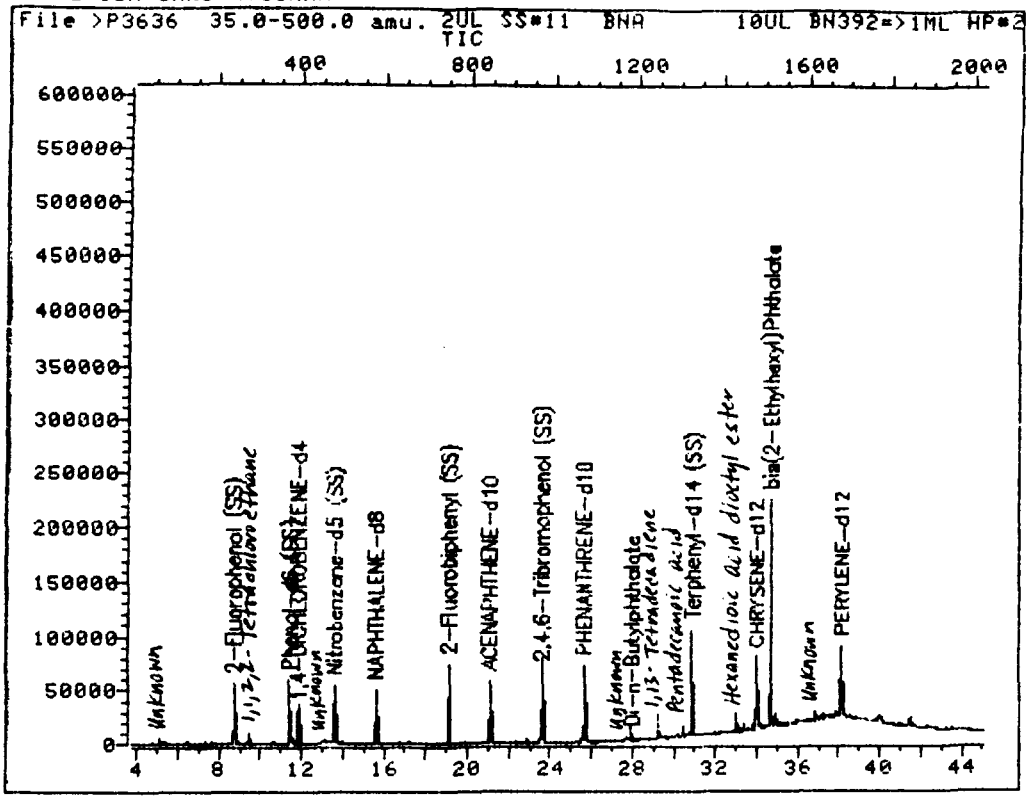
Quant Rev: 6 Quant Time: 871103 20:21
Injected at: 871103 19:3
Dilution Factor: 1.00000
BTL#70

ID File: !IDXPP::ME
Title: PRIORITY POLLUTANTS
Last Calibration: 871103 12:07

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	11.83	396	14124	40.00	ug/mL	92
3)	2-Fluorophenol (SS)	8.67	241	41835	109.63	ug/mL	63
6)	Phenol-d6 (SS)	11.40	375	60877	125.70	ug/mL	95
14)	*NAPHTHALENE-d8	15.59	581	50994	40.00	ug/mL	57
15)	Nitrobenzene-d5 (SS)	13.56	481	42382	63.18	ug/mL	77
26)	*ACENAPHTHENE-d10	21.07	850	39332	40.00	ug/mL	93
30)	2-Fluorobiphenyl (SS)	19.10	753	73916	72.09	ug/mL	97
41)	2,4,6-Tribromophenol (SS)	23.58	973	38906	121.62	ug/mL	78
42)	*PHENANTHRENE-d10	25.64	1074	81018	40.00	ug/mL	65
50)	Di-n-Butylphthalate	27.96	1188	4313	1.29	ug/mL	85
52)	*CHRYSENE-d12	33.97	1482	97771	40.00	ug/mL	51
53)	Terphenyl-d14 (SS)	30.86	1330	123522	48.03	ug/mL	39
59)	bis(2-Ethylhexyl)Phthalate	34.66	1516	190279	58.88	ug/mL	86
61)	*PERYLENE-d12	38.15	1686	111639	40.00	ug/mL	77

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >P3636::B2 Quant Output File: ^P3636::QT
Name: 2UL SS#11 BNA
Misc: 10UL BN392=>1ML HP#2 762625 BTL#70

Id File: !IDXPP::ME
Title: PRIORITY POLLUTANTS
Last Calibration: 871103 12:07

Operator ID: GLENN
Quant Time: 871103 20:21
Injected at: 871103 19:34

0230

MS data file header from : >P3636

Sample: 2UL SS#11 BNA Operator: GLENN MS 11/03/87 19:34
Misc : 10UL BN392=>1ML HP#2 762625 BTL#70
Sys. #: 2 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: EXTBNA Tuning file: MT8002 No. of extra records: 2
Source temp.: 0 Analyzer temp.: 280 Transfer line temp. : 0

Chromatographic temperatures : 30. 300. 0. 0. 0.
Chromatographic times, min. : 4.0 7.3 0.0 0.0 0.0
Chromatographic rate, deg/min: 8.0 0.0 0.0 .5 0.0

>P3636 2UL SS#11 BNA 10UL BN392=>1ML HP#2 762625
35.01 500.0 CLP ADC TIC
Upslope: .20 Area Reject: 9336. Max Peaks: 16 Bunching: 1
Dnslope: 0.00 Results File IP3636 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	5.02	59	62	69	6529	15018	14150	23.25	4.116
2	9.42	273	278	281	8634	20641	19106	31.39	5.557
3	13.11	444	459	464	2720	39656	25472	41.85	7.409
~~4~~	17.16	656	658	666	1772	13842	9406	15.46	2.736
5	27.67	1170	1174	1177	4810	35835	21567	35.44	6.273
6	29.18	1245	1248	1250	23073	87437	60858	100.00	17.701
7	30.37	1304	1306	1312	8793	88560	29147	47.89	8.477
8	33.03	1434	1436	1439	16769	99495	33072	54.34	9.619
~~9~~	33.35	1450	1452	1455	5337	80776	12129	19.93	3.528
~~10~~	33.72	1468	1470	1472	6118	71790	13043	21.43	3.794
~~11~~	34.44	1504	1505	1507	2833	55707	9759	16.04	2.838
~~12~~	34.93	1527	1529	1531	5071	88891	15687	25.78	4.563
~~13~~	35.03	1531	1534	1539	4896	173506	21151	34.75	6.152
14	36.86	1620	1623	1625	8903	158221	31968	52.53	9.298
~~15~~	37.29	1642	1644	1647	5391	151577	17721	29.12	5.154
~~16~~	39.83	1766	1768	1770	3199	99993	9583	15.75	2.787

Sum of corrected areas: 343819.

Summary of Unknowns PBM Library Search and Quantitation

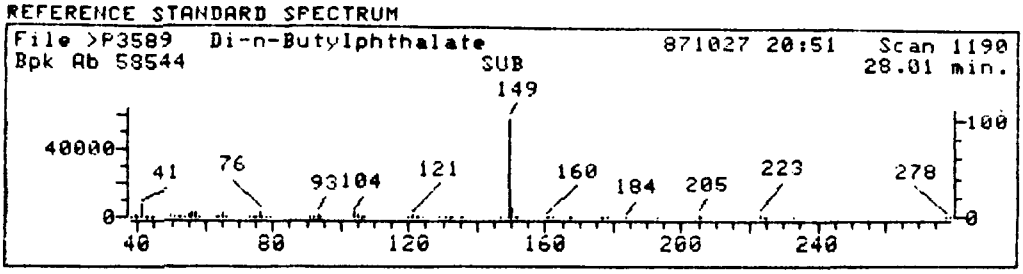
Standard	Concentration	Area	Retention Time	Unknown Window
1	40.0	93360.	11.83	3.78 - 13.71
2	40.0	120460.	15.59	13.71 - 18.33
3	40.0	176357.	21.07	18.33 - 23.36
4	40.0	186423.	25.64	23.36 - 29.80
5	40.0	258455.	33.97	29.80 - 36.06
6	40.0	288023.	38.15	36.06 - 45.05

Dilution Factor (DF) = 1.00 Fractional Solids (FS) = 1.00
Amount Method (AM) = 1000.00 Amount Used (AU) = 25.07

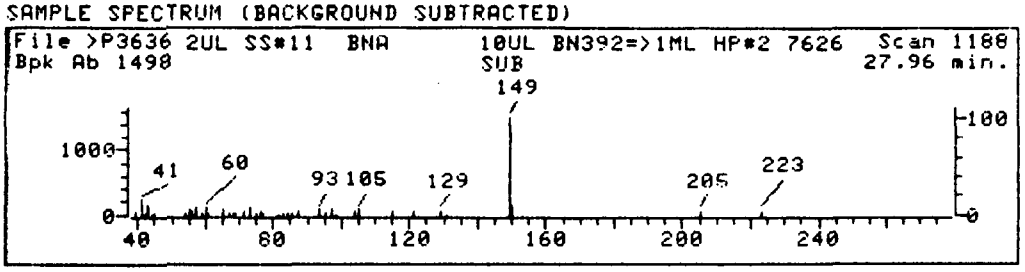
Correction Factor = 39.90 = (AM / AU) / (DF * FS)

0251

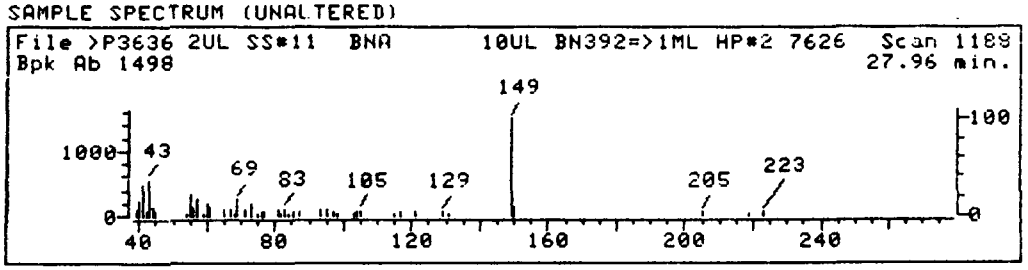
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



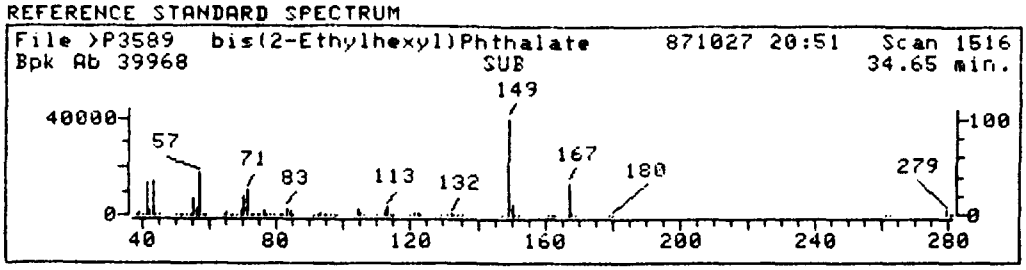
SAMPLE SPECTRUM (UNALTERED)



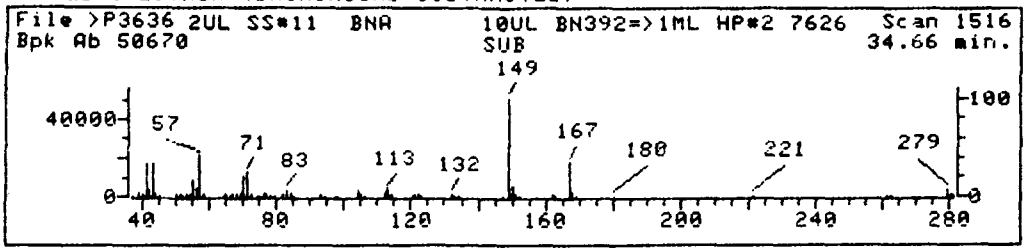
Data File: >P3636::B2 Quant Output File: ^P3636::QT
Name: 2UL SS#11 BNA
Misc: 10UL BN392=>1ML HP#2 762625 BTL#70
Quant Time: 871103 20:21 Quant ID File: !IDXPP::ME
Injected at: 871103 19:34 Last Calibration: 871103 12:07

Compound No: 50
Compound Name: Di-n-Butylphthalate
Scan Number: 1188
Retention Time: 27.96 min.
Quant Ion: 149.0
Area: 4313
Concentration: 1.29 ug/mL
q-value: 85

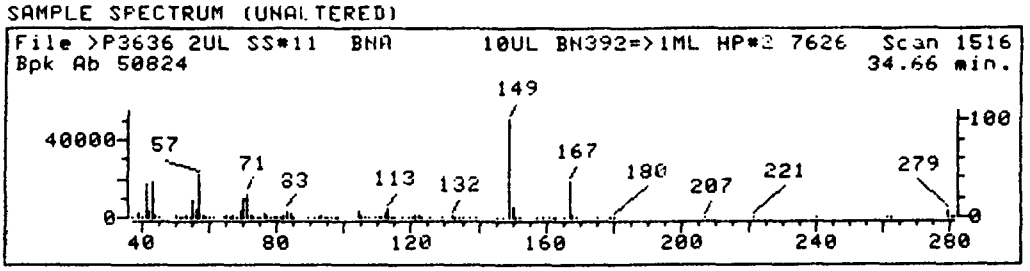
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

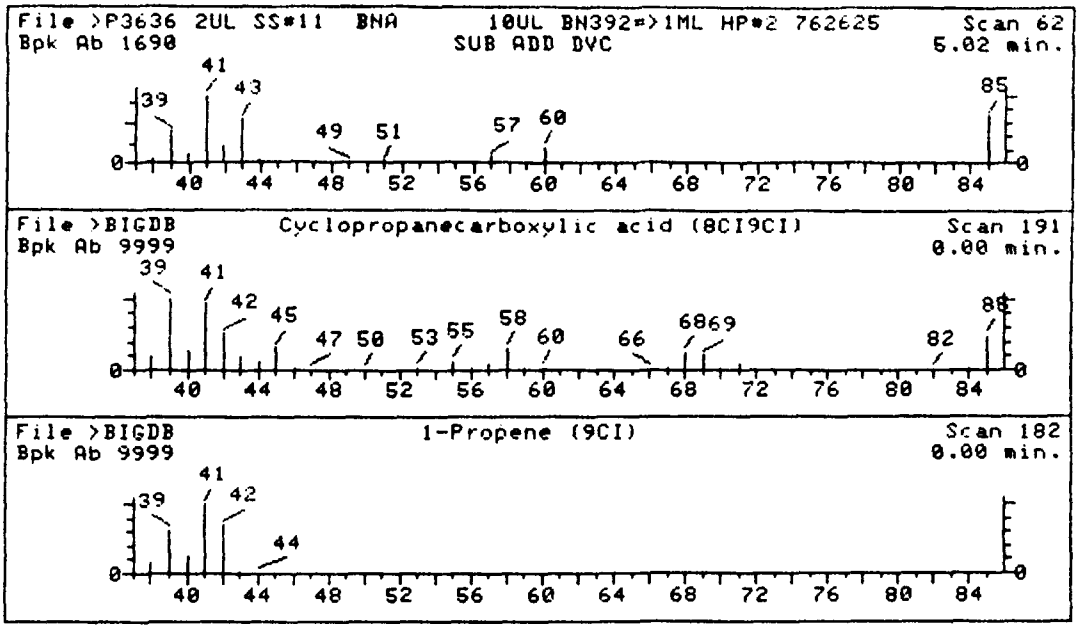


SAMPLE SPECTRUM (UNALTERED)



Data File: >P3636::B2 Quant Output File: ^P3636::QT
Name: 2UL SS#11 BNA
Misc: 10UL BN392=>1ML HP#2 762625 BTL#70
Quant Time: 871103 20:21 Quant ID File: !IDXPP::ME
Injected at: 871103 19:34 Last Calibration: 871103 12:07

Compound No: 59
Compound Name: bis(2-Ethylhexyl)Phthalate
Scan Number: 1516
Retention Time: 34.66 min.
Quant Ion: 149.0
Area: 190279
Concentration: 58.88 ug/mL
q-value: 86

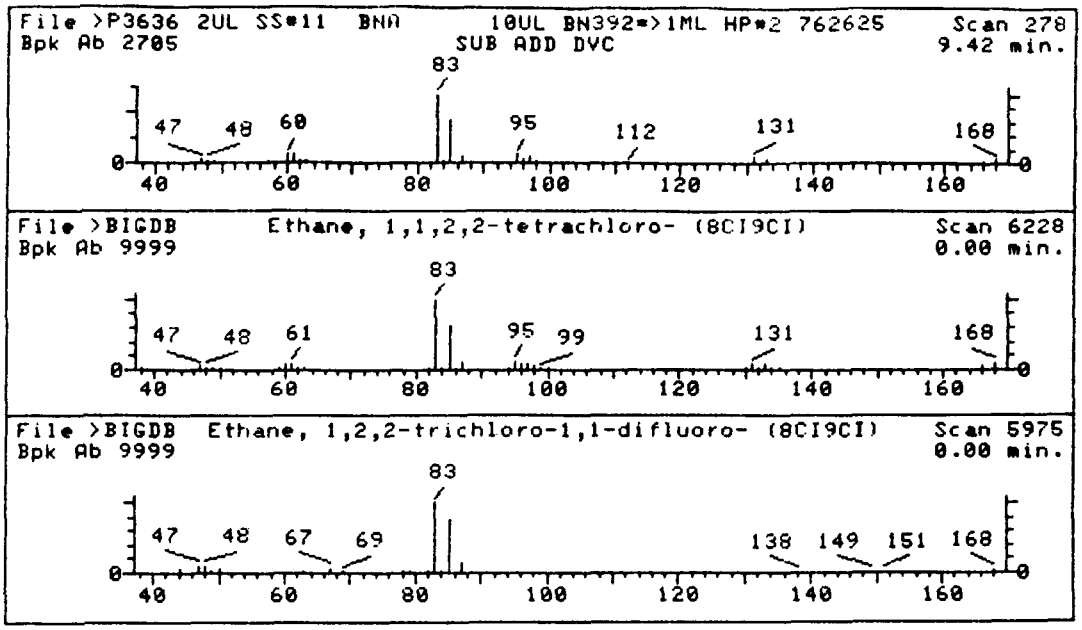


. Unknown #,1
Area = 14150.00 Tentative Concentration is 240.00

1. Cyclopropanecarboxylic acid (8CI9CI) 86 C4H6O2
2. 1-Propene (9CI) 42 C3H6

Sample file: >P3636 Spectrum #: 62
Search speed: 1 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	30*	1759531	191	"BIGDB	27	74	3	0	45	33	12	13

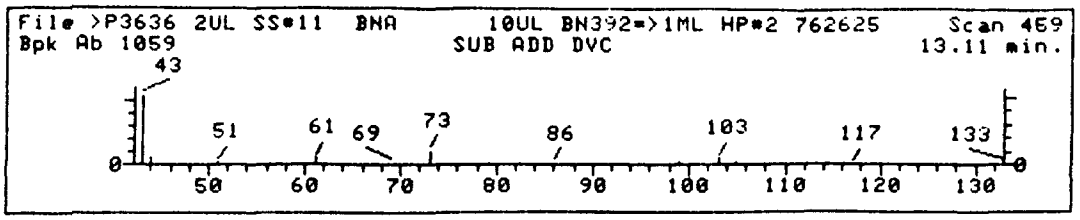


. Unknown #,2
Area = 19106.00 Tentative Concentration is 330.00

1. Ethane, 1,1,2,2-tetrachloro- (8CI9CI) 166 C2H2Cl4
2. Ethane, 1,2,2-trichloro-1,1-difluoro- (8CI9CI) 168 C2HCl3F2

Sample file: >P3636 Spectrum #: 278
Search speed: 1 Tilting option: N No. of ion ranges searched: 46

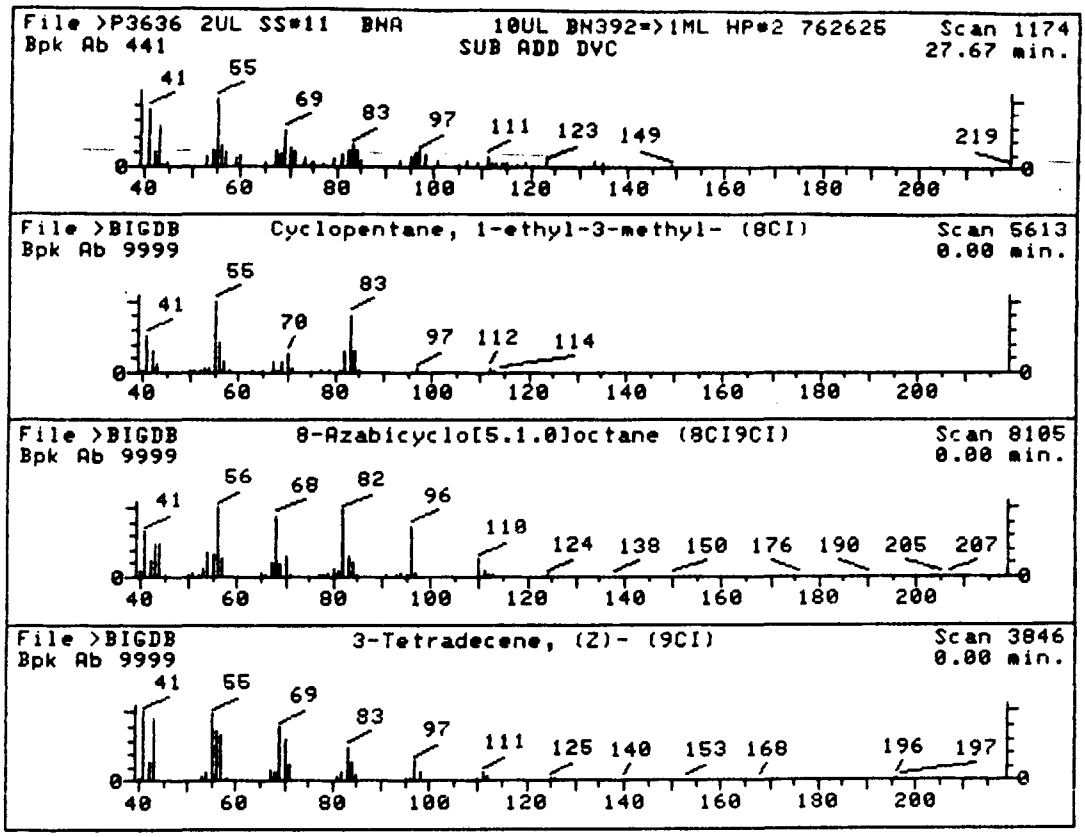
	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	94*	79345	6228	"BIGDB	81	22	0	0	71	16	60	94



Unknown #,3
Area = 25472.00 Tentative Concentration is 440.00

Sample file: >P3636 Spectrum #: 459

No data base entries were retrieved.



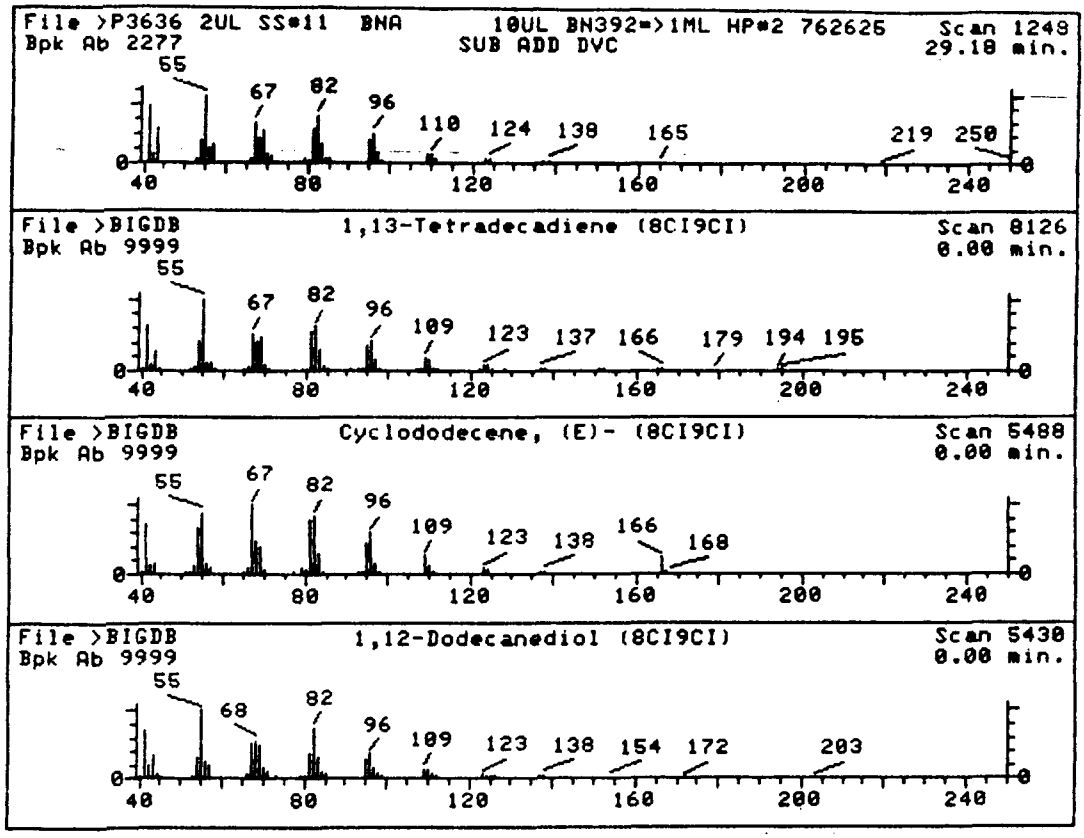
. Unknown #,5
Area = 21567.00 Tentative Concentration is 180.00

1.	Cyclopentane, 1-ethyl-3-methyl- (8CI)	112 C8H16
2.	8-Azabicyclo[5.1.0]octane (8CI9CI)	111 C7H13N
3.	3-Tetradecene, (Z)- (9CI)	196 C14H28
4.	1-Pentadecene (8CI9CI)	210 C15H30
5.	Cyclopentanemethanamine, 2-amino- (9CI)	114 C6H14N2
6.	3-Tetradecene, (E)- (9CI)	196 C14H28
7.	3-Hepten-1-ol, (E)- (9CI)	114 C7H14O

Sample file: >P3636 Spectrum #: 1174
Search speed: 1 Tilting option: N No. of ion ranges searched: 61

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IN
1.	21*	3726474	5613	"BIGDB	53	54	1	0	73	58	5	37

0257



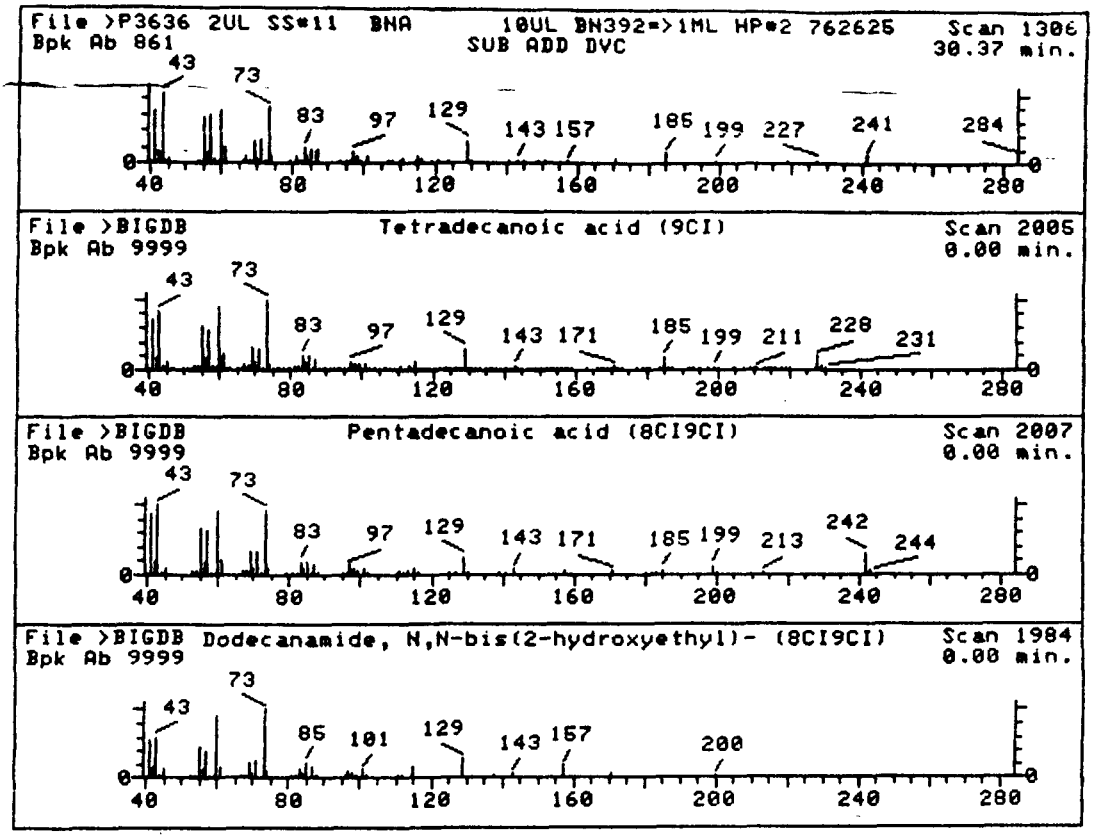
. Unknown #,6
Area = 60858.00 Tentative Concentration is 520.00

1.	1,13-Tetradecadiene (8CI9CI)	194 C14H26
2.	Cyclododecene, (E)- (8CI9CI)	166 C12H22
3.	1,12-Dodecanediol (8CI9CI)	202 C12H26O2
4.	9-Octadecen-1-ol, (Z)- (8CI9CI)	268 C18H36O
5.	1,14-Tetradecanediol (8CI9CI)	230 C14H30O2
6.	Bicyclo[8.2.0]dodecane, 11,11-dimethyl- (9CI)	194 C14H26
7.	9-Eicosyne (9CI)	278 C20H38

Sample file: >P3636 Spectrum #: 1248
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	84	21964498	8126	"BIGDB	117	11	2	0	83	6	55	66
2.	76	1486755	5488	"BIGDB	71	58	1	0	52	10	45	27
3.	74	5675514	5430	"BIGDB	108	29	2	0	86	14	39	44
4.	74	143282	5546	"BIGDB	87	81	1	0	50	14	39	44
5.	71	19812647	5381	"BIGDB	103	40	1	0	78	28	29	63

8520



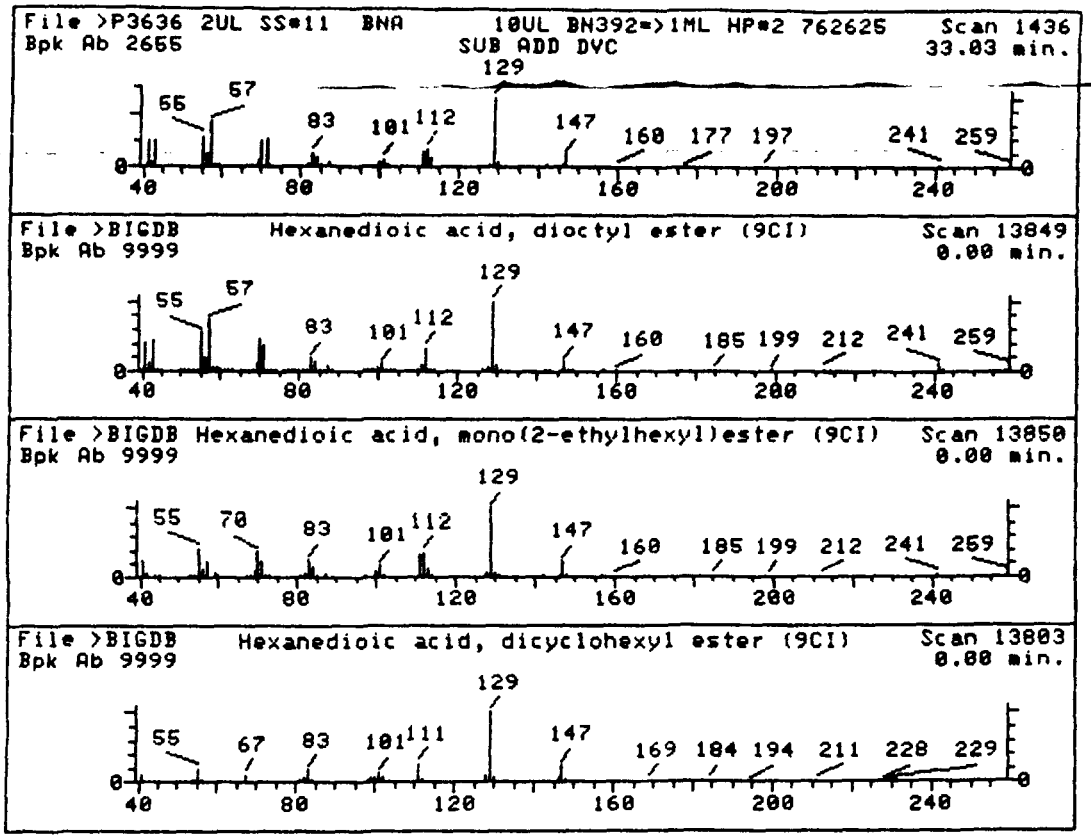
. Unknown #,7
Area = 29147.00 Tentative Concentration is 180.00

1.	Tetradecanoic acid (9CI)	228 C14H28O2
2.	Pentadecanoic acid (8CI9CI)	242 C15H30O2
3.	Dodecanamide, N,N-bis(2-hydroxyethyl)- (8CI9CI)	287 C16H33NO3
4.	Hexadecanoic acid (9CI)	256 C16H32O2
5.	Heptanoic acid (8CI9CI)	130 C7H14O2
6.	Isoxazolidine, 5-ethyl-2,4-dimethyl-, cis- (9CI)	129 C7H15NO
7.	Isoxazolidine, 5-ethyl-2,4-dimethyl-, trans- (9CI)	129 C7H15NO

Sample file: >P3636 Spectrum #: 1306
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	51	544638	2005	"BIGDB	100	46	3	0	79	23	22	23

0259



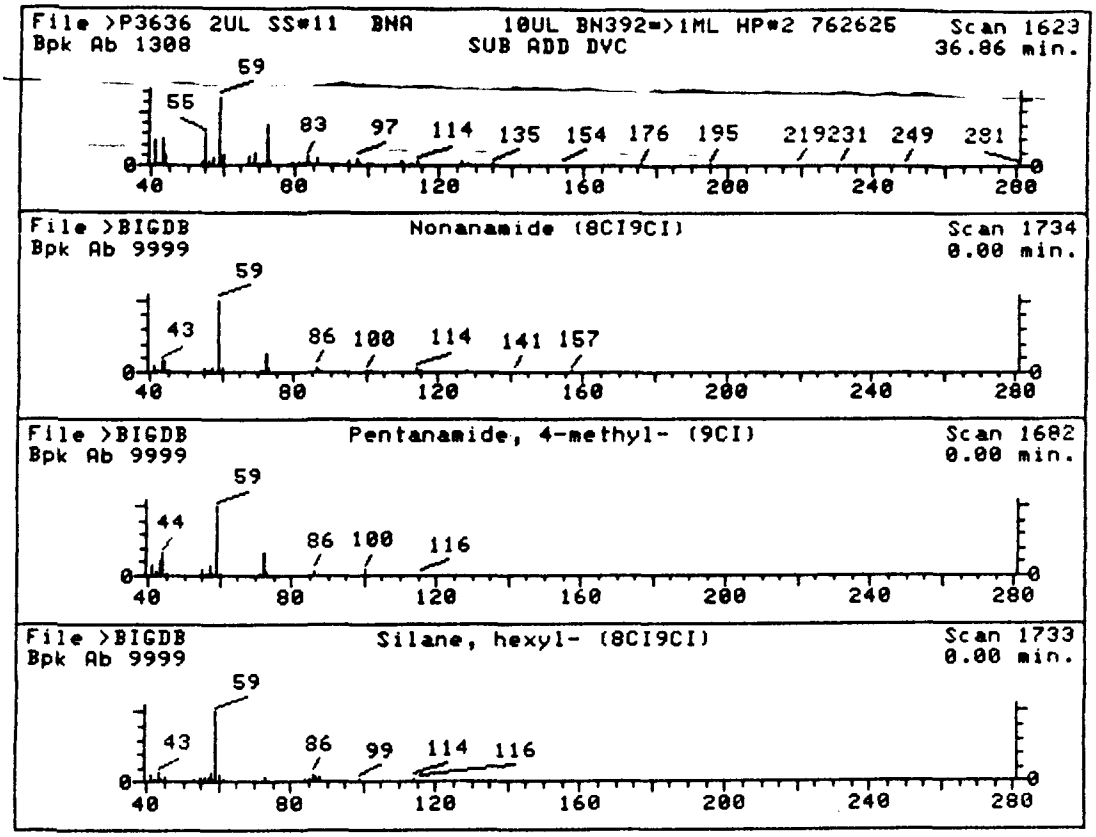
Unknown #,8
Area = 33072.00 Tentative Concentration is 200.00

1.	Hexanedioic acid, dioctyl ester (9CI)	370	C22H4204
2.	Hexanedioic acid, mono(2-ethylhexyl)ester (9CI)	258	C14H2604
3.	Hexanedioic acid, dicyclohexyl ester (9CI)	310	C18H3004

Sample file: >P3636 Spectrum #: 1436
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	70	123795	13849	"BIGDB	117	47	2	0	76	17	32	56

0260



. Unknown #,14
Area = 31968.00 Tentative Concentration is 180.00

1.	Nonanamide (8CI9CI)	157 C9H19NO
2.	Pentanamide, 4-methyl- (9CI)	115 C6H13NO
3.	Silane, hexyl- (8CI9CI)	116 C6H16Si
4.	Butanamide, 3-methyl- (9CI)	101 C5H11NO
5.	1,8-Nonanediol, 8-methyl- (9CI)	174 C10H22O2
6.	Cyclooctanemethanol, .alpha.,.alpha.-dimethyl- (8CI)	170 C11H22O
7.	Oxepane, 2,2,3-trimethyl- (9CI)	100 C6H12O

Sample file: >P3636 Spectrum #: 1623
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	64*	1120076	1734	"BIGDB	39	47	0	0	100	25	28	48

1920

H2M LABORATORY

III. 2. Reporting Package for
I.D.# Trip Blank

10 [illegible] 15

CHAIN OF CUSTODY RECORD

PROJ. NO.: SHMPRGAS | PROJECT NAME: RI/FS North Sea Landfill

SAMPLERS (Signature): J. Angyal

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Bottle B (HNO3)	Bottle F (unpres)	Bottle I	Bottle I (P) H2SO4	Bottle K 1 gal Glass	Bottle K 8 oz Glass	1 Gallon Plastic	Bottle H (NaOH)	REMARKS
SO[illegible]	10/14	12:[illegible]pm	✓		SURFACE SOIL #17	1	–	–	–	–	1	–	USE FOR MS/MSD Sample		
SO[illegible]	10/14	2:[illegible]pm	✓		SURFACE SOIL #20	3	–	1	–	–	–	1	1	–	– Split w/ Versar
SO[illegible]	10/14	2:[illegible]pm	✓		SURFACE SOIL #19	3	–	1	–	–	–	1	1	–	–
SO[illegible]B	10/14	1:[illegible]pm	✓		SURFACE SOIL #18	3	–	1	–	–	–	1	1	–	– Split w/ Versar
SO[illegible]	10/14	12:[illegible]pm	✓		SURFACE SOIL #16	3	–	1	–	–	–	1	1	–	–
SO[illegible]	10/14	11:[illegible]am	✓		SURFACE SOIL #15	3	–	1	–	–	–	1	1	–	– Split w/ Versar
SO[illegible]	10/14	10:[illegible]am	✓		SURFACE SOIL #14	3	–	1	–	–	–	1	1	–	–
SO[illegible]	10/14	10:[illegible]am	✓		SURFACE SOIL #13	3	–	1	–	–	–	1	1	–	–
SO[illegible]	10/14	10:[illegible]am	✓		SURFACE SOIL #12	3	–	1	–	–	–	2		–	1 clear / 1 Brown
SO[illegible]	10/14	9:[illegible]am	✓		SURFACE SOIL #11	3	–	1	–	–	–	2		–	1 clear / 1 Brown
	10/14	8:[illegible]am		✓	Field Blank	5	1	–	2	1	–	–	–	–	1 - filled 1st thing
	10/13	1400 HRS	–	✓	Trip Blank	5	1	–	2	1	–	–	–	–	1
	10/13	1430 HRS	–	✓	Field Blank Water	2	–	–	–	–	–	–	–	2	–

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Steven W. Murphy	10/14/87 0700	James Angyal			
J. Angyal	10/14/87	[illegible]			

Received for Laboratory by: [illegible] — Date / Time: 10/14/87 1815 — Remarks:

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

0250

H2M LABORATORY

Full CLP + CCC

Town of Southampton
North Sea Landfill
ID# SHMP 8605

Page 1

Continuing Chain of Custody

Samples Received by Jim Padilla date 10/14/87 time 1815 HRS.

Signature Jim Padilla

No. of bottles received	client sample ID#'s	type	H2M lab no. X·BN X·AE X·PH
1	surface soil #20	amber glass 40z 1	762617
1	surface soil #19	" "	762618
1	surface soil #18	" "	762619
1	surface soil #16	" "	762620
1	surface soil #15	" "	762621
1	surface soil #14	" "	762622
1	surface soil #13	" "	762623
1	surface soil #12	" "	762624
1	surface soil #11	" "	762625
2	Field Blank	2 I	762653
2	Trip Blank	2 I	762654

Sample Relinquished by	Sample Received by	Date	Time	Bottle Type	Reason
Jim Padilla	L Barthman	10/15/87	1740 mil	ALL	Storage / Analysis
L Barthman	Mark J. Gardella	10/19/87	0900 hrs	762653 762654	Extraction / concen
Mark J. Gardella	L Barthman	10/19/87	1600 hrs	762653 762654	storage
L Barthman	Glenn K Bordenca	10/20/87	1500	All vials	Analysis

0264

SAMPLE PREPARATION FOR ORGANIC PRIORITY POLLUTANT EXTRACTABLES

H2M LABS, INC.

Environmental and Industrial Analytical Laboratory
575 Broad Hollow Road, Melville, NY 11747-5076

(516) 694-3040

LAB #	762466	762467	762468	762434	762767	762653	762654	762767
LAB # PP								
Client Client Sample #	TSH SB#7	TSH SB#8	TSH SB#10	ECOTEST	ECC TEST	Field Blank	Trip Blank	Field Blank
SCANS	BNA	BNA	BNA	BN/AC	BC	BN/AC	BN/AC	BN/AC
PROTOCOL	CLP	CLP	CLP			CLP	CLP	CLP
EXTRACTION DATE	10-17	10-17	10-17	10-19	10-19	10-19	10-19	10-19
ANALYST	ZAB	ZAB	ZAB			MFB	MFB	MFB
METHOD	SON	SON	SON	SF	SF	ST	ST	ST
SAMPLE VOLUME	25.0008	25.0061	25.0349	1000 mL	500 mL	1000ml	1000ml	1000ml
SURROGATE NUMBER/VOLUME	BN 486 PH 193 1ml each	BN 486 PH 193 1ml each	BN 486 PH 193 1ml each	BN 486 PH 193 1mL each	PH 193 1mL	BN 486 PH 193 1ml each	BN 486 PH 193 1ml each	BN 486 PH 193 1ml each
MATRIX SPIKE NUMBER/VOLUME								
BN EXTRACT SPLIT	N	N	N	N	N	N	N	N
CONCENTRATED DATE/INITIALS BN/AE	ZAB	ZAB	ZAB					
CONCENTRATION VOLUME BN	—	—	—	0.5ml	—	0.5ml	0.5ml	0.5ml
CONCENTRATION VOLUME AE	—	—	—	0.5ml	1ml	0.5ml	0.5ml	0.5ml
(SOIL) BNA	5ml	1ml	1ml	—	—	—	—	—
PP CONCENTRATED DATE/ANALYST								
PP CONCENTRATION VOLUME								
ALUMINA CLEANED								
Bio-Beaded	BB							
REMARKS								

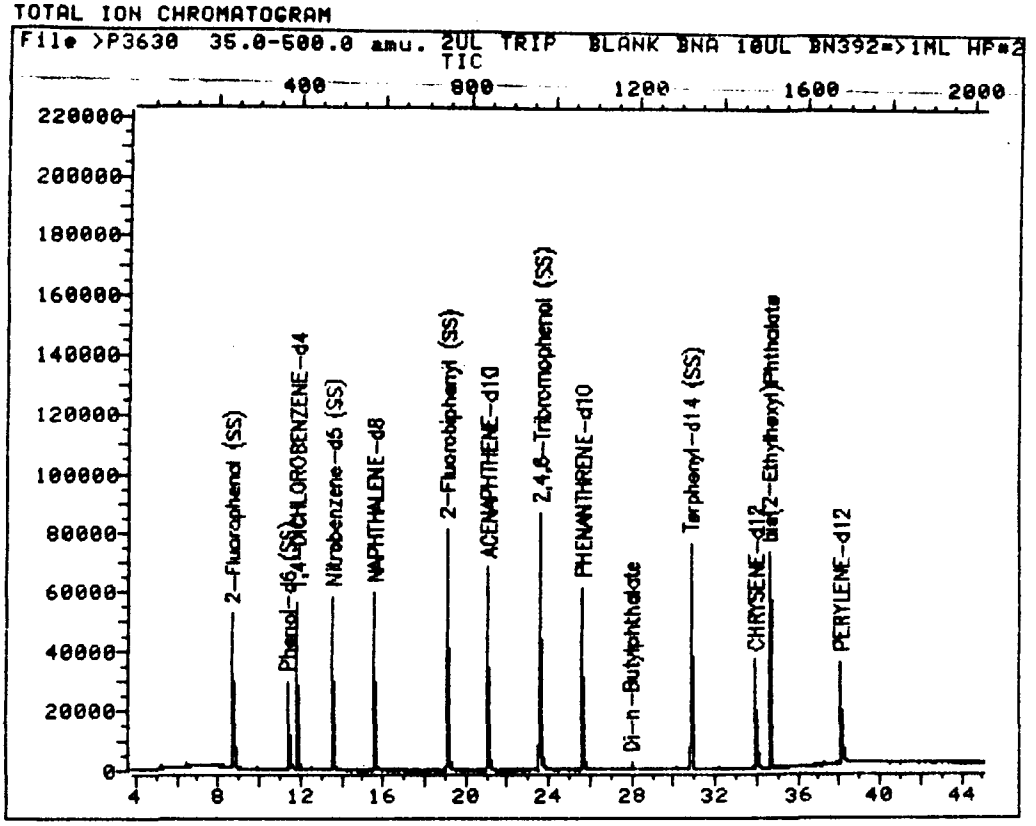
0265

Semi-Volatile BNA

Sample # / Lab #	Comments	Surrogate Standard µl	Surrogate Standard Sol. #	Surrogate Standard Sol. Vol.	Storage Info. Tape	Storage Info. CRN.	Storage Info. Track	QUANT.	Requested Date
3609 SS-18	762619	10	BN 3522	1.0			B2		
3610 SS-15	762621								
3611 MW-5A	762952								
3612 MW-5B	762955								
3613	762911								
3614	763340								
3615	763341								
3616	763343								
3617 030/30	761657								
3618 West Stockpile									
DF 147 MS 44							B1		
3619 3620 ~~Method Blank 206~~	These are OK GKB	10	BN 3522	1.0			B1		
3620 3621 ~~MW6~~	~~762955~~								
3621 3622 ~~MW6 MS~~	~~762955~~								
3622 3623 ~~MW6 MSD~~	762955								
3623 3624 ~~MW2~~	762937								
3624 3625 ~~Field~~ Blank									
3625 3626 Trip Blank									
3626 3627 25 mg/ml HSL Std									
DF 147 MS 44							B1		
DF 149 3627 MS 44	50 mg DFTPP						B1		
3627 25 mg/ml HSL Std		10	BN 3522	1.0			B2		
3628 Method Blank 206									
3629 Field Blank	762653								
3630 Trip Blank	762654								
3631 SS #20	762617								
3632 SS #16	762620								
3633 SS #14	762622								
3634 SS #13	762623								
3635 SS #12	762624								

6620

TOTAL ION CHROMATOGRAM



Data File: >P3630::B2 Quant Output File: ^P3630::QT
Name: 2UL TRIP BLANK BNA
Misc: 10UL BN392=>1ML HP#2 762654 BTL#64

Id File: !IDXPP::ME
Title: PRIORITY POLLUTANTS
Last Calibration: 871103 12:07

Operator ID: GLENN
Quant Time: 871103 14:44
Injected at: 871103 13:57

QUANT REPORT

Operator ID: GLENN Quant Rev: 6 Quant Time: 871103 14:44
Output File: ^P3630::QT Injected at: 871103 13:57
Data File: >P3630::B2 Dilution Factor: 1.00000
Name: 2UL TRIP BLANK BNA
Misc: 10UL BN392=>1ML HP#2 762654 BTL#64

ID File: !IDXPP::ME
Title: PRIORITY POLLUTANTS
Last Calibration: 871103 12:07

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	11.84	395	18688	40.00	ug/mL	92
3)	2-Fluorophenol (SS)	8.66	239	39805	78.83	ug/mL	68
6)	Phenol-d6 (SS)	11.37	372	34066	53.16	ug/mL	98
14)	*NAPHTHALENE-d8	15.59	579	62796	40.00	ug/mL	58
15)	Nitrobenzene-d5 (SS)	13.55	479	45073	54.56	ug/mL	82
26)	*ACENAPHTHENE-d10	21.07	848	39630	40.00	ug/mL	87
30)	2-Fluorobiphenyl (SS)	19.09	751	72488	70.17	ug/mL	97
41)	2,4,6-Tribromophenol (SS)	23.57	971	35712	110.80	ug/mL	81
42)	*PHENANTHRENE-d10	25.61	1071	70387	40.00	ug/mL	64
50)	Di-n-Butylphthalate	27.95	1186	3459	1.19	ug/mL	83
52)	*CHRYSENE-d12	33.92	1479	49385	40.00	ug/mL	53
53)	Terphenyl-d14 (SS)	30.83	1327	78574	60.49	ug/mL	40
59)	bis(2-Ethylhexyl)Phthalate	34.59	1512	45191	27.68	ug/mL	92
61)	*PERYLENE-d12	38.08	1683	46845	40.00	ug/mL	76

* Compound is ISTD

0258

MS data file header from : >P3630

Sample: 2UL TRIP BLANK BNA Operator: GLENN MS 11/03/87 13:57
Misc : 10UL BN392=>1ML HP#2 762654 BTL#64
Sys. #: 2 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: EXTBNA Tuning file: MT8002 No. of extra records: 2
Source temp.: 0 Analyzer temp.: 280 Transfer line temp. : 0

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	4.0	7.3	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	.5	0.0

No peaks found.

Summary of Unknowns PBM Library Search and Quantitation

Standard	Concentration	Area	Retention Time	Unknown Window
1	40.0	123493.	11.84	3.82 - 13.72
2	40.0	148311.	15.59	13.72 - 18.33
3	40.0	183081.	21.07	18.33 - 23.34
4	40.0	176239.	25.61	23.34 - 29.77
5	40.0	133449.	33.92	29.77 - 36.00
6	40.0	137571.	38.08	36.00 - 45.05

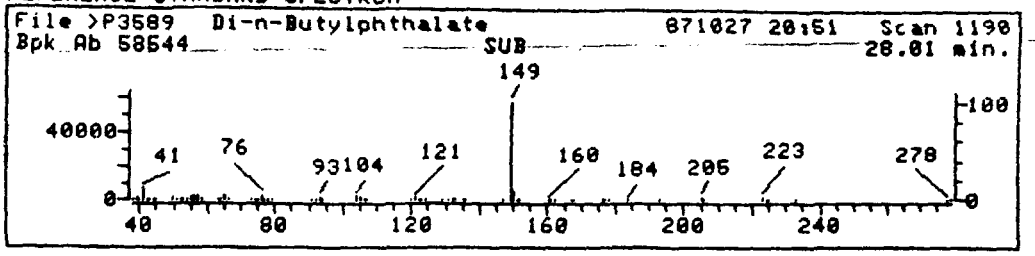
Dilution Factor (DF) = 1.00 Fractional Solids (FS) = 1.00
Amount Method (AM) = 1000.00 Amount Used (AU) = 1000.00

Correction Factor = 1.00 = (AM / AU) / (DF * FS)

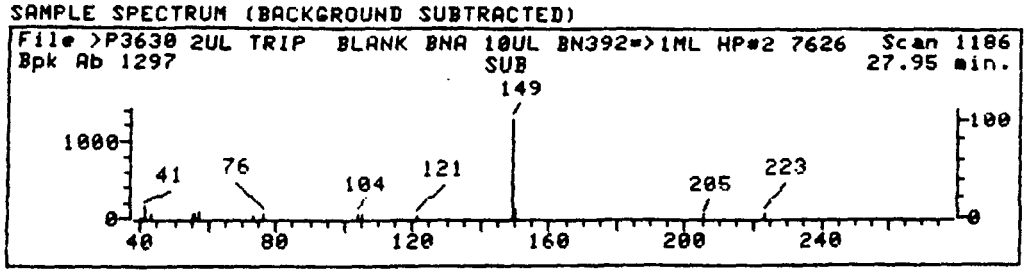
$$\text{Unknown Concentration} = \frac{\text{Conc Int Std}}{\text{Area Int Std}} * \text{Area Unk} * \text{Correction Factor}$$

8:08 PM TUE., 10 NOV., 1987

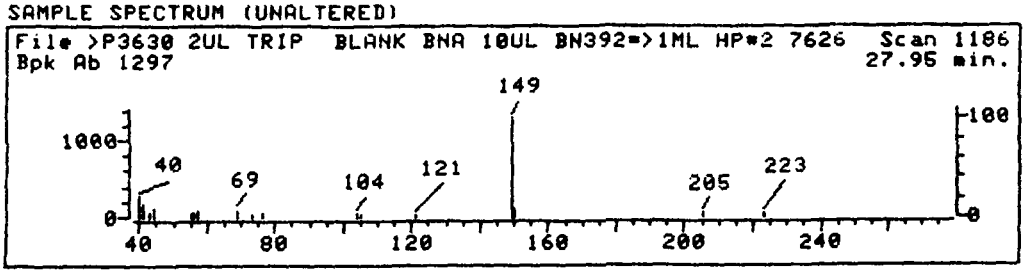
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



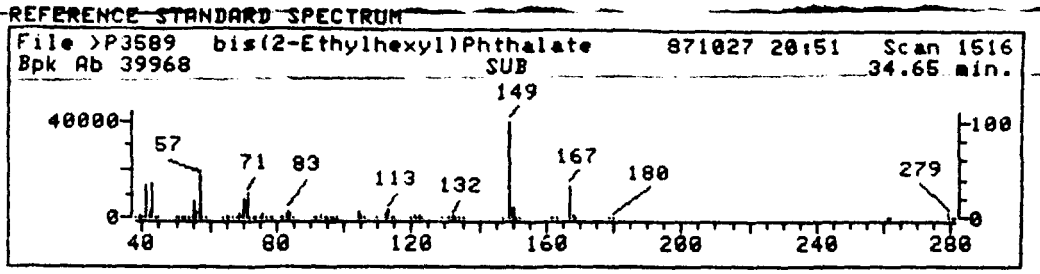
SAMPLE SPECTRUM (UNALTERED)



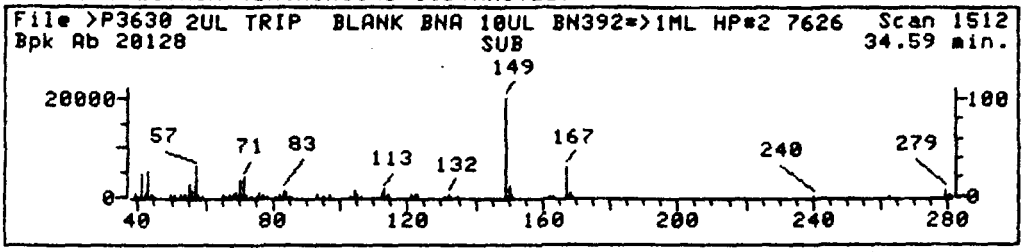
Data File: >P3630::B2 Quant Output File: ^P3630::QT
Name: 2UL TRIP BLANK BNA
Misc: 10UL BN392=>1ML HP#2 762654 BTL#64
Quant Time: 871103 14:44 Quant ID File: !IDXPP::ME
Injected at: 871103 13:57 Last Calibration: 871103 12:07

Compound No: 50
Compound Name: Di-n-Butylphthalate
Scan Number: 1186
Retention Time: 27.95 min.
Quant Ion: 149.0
Area: 3459
Concentration: 1.19 ug/mL
q-value: 83

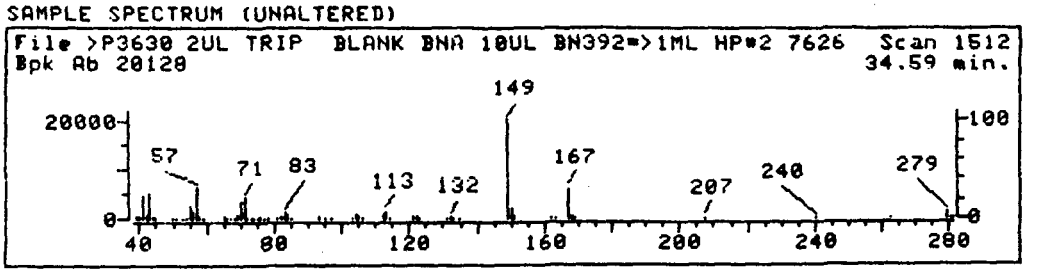
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >P3630::B2 Quant Output File: ^P3630::QT
Name: 2UL TRIP BLANK BNA
Misc: 10UL BN392=>1ML HP#2 762654 BTL#64
Quant Time: 871103 14:44 Quant ID File: !IDXPP::ME
Injected at: 871103 13:57 Last Calibration: 871103 12:07

Compound No: 59
Compound Name: bis(2-Ethylhexyl)Phthalate
Scan Number: 1512
Retention Time: 34.59 min.
Quant Ion: 149.0
Area: 45191
Concentration: 27.68 ug/mL
q-value: 92

III. 2. Reporting Package for
I.D.# Field Blank

CHAIN OF CUSTODY RECORD

PROJ. NO.: SUMP1605 | PROJECT NAME: RI/FS North Sea Landfill

SAMPLERS: (Signature) J. Angyal

STA. NO.	DATE	TIME	GRAB	COMP.	STATION LOCATION	NO. OF CONTAINERS	Bottle B (HNO3)	Bottle F (unpres)	Bottle E	Bottle E@ H2SO4	Bottle K 1 gal Glass	Bottle K 8oz Glass	Bottle K Plastic 1 gallon Jug	Bottle H (NaOH)	REMARKS
SO	10/14	12:45pm		✓	SURFACE SOIL #17	1	–	–	–	–	1	–	USE FOR MS/MSD Sample		
SO	10/14	2:15pm		✓	SURFACE SOIL #20	3	–	1	–	–	–	1	1	–	– Split w/ Versar
SB	10/14	2:30pm		✓	SURFACE SOIL #19	3	–	1	–	–	–	1	1	–	–
SB#18	10/14	1:50pm		✓	SURFACE SOIL #18	3	–	1	–	–	–	1	1	–	– Split w/ Versar
SB#16	10/14	10:30am		✓	SURFACE SOIL #16	3	–	1	–	–	–	1	1	–	–
SB#15	10/14	11:30am		✓	SURFACE SOIL #15	3	–	1	–	–	–	1	1	–	– Split w/ Versar
SB#14	10/14	10:45am		✓	SURFACE SOIL #14	3	–	1	–	–	–	1	1	–	–
SB#13	10/14	10:00am		✓	SURFACE SOIL #13	3	–	1	–	–	–	1	1	–	–
SB#12	10/14	11:00am		✓	SURFACE SOIL #12	3	–	1	–	–	–	2		–	1 clear / 1 Brown
SB#11	10/14	9:15am		✓	SURFACE SOIL #11	3	–	1	–	–	–	2		–	1 clear / 1 Brown
	10/14	8:30am		✓	Field Blank	5	1	–	2	1	–	–	–	–	1 – filled 1 Syring
	10/13	1400 hrs	–	✓	Trip Blank	5	1	–	2	1	–	–	–	–	1
	10/13	1430 hrs	–	✓	Field Blank Water	2	–	–	–	–	–	–	–	2	–

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Steven W. Munger	10/14/87 0700	James Angyal			
J. Angyal	10/14/87				

Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks
J. Angyal	10/14/87		10/14/87 1815	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

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HZM LABORATORY

Full CLP + TCC

Town of Southampton
North Sea Land fill
ID# SHMP 8605

Page 1

Continuing Chain of Custody

Samples Received by Jim Padilla date 10/14/87 time 1815 HRS.

Signature

No. of bottles received	client sample ID's	type	HZM lab no. X·BN X·AE X·PH
1	surface soil #20	amber glass 402 1	762617 ✓
1	surface soil #19	" "	762618 ✓
1	surface soil #18	" "	762619 ✓
1	surface soil #16	" "	762620 ✓
1	surface soil #15	" "	762621 ✓
1	surface soil #14	" "	762622 ✓
1	surface soil #13	" "	762623 ✓
1	surface soil #12	" "	762624 ✓
1	surface soil #11	" "	762625
2	Field Blank	2 I	762653 ✓
2	Trip Blank	2 I	762654 ✓

Sample Relinquished by	Sample Received by	Date	Time	Bottle Type	Reason
J. Padilla	L.H. Bartleman	10/15/87	1740 HRS	ALL	Storage / Analysis
L.H. Bartleman	Mark J. Gardella	10/19/87	0900 HRS	762653 762654	Extraction concen
Mark J. Gardella	L.H. Bartleman	10/19/87	1600 HRS	762653 762654	storage
L.H. Bartleman	Glenn K. Bartleman	10/20/87	1500	All vials	Analysis

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SAMPLE PREPARATION FOR ORGANIC PRIORITY POLLUTANT EXTRACTABLES

H2M LABS, INC.

Environmental and Industrial Analytical Laboratory
575 Broad Hollow Road, Melville, NY 11747-5076
(516) 694-3040

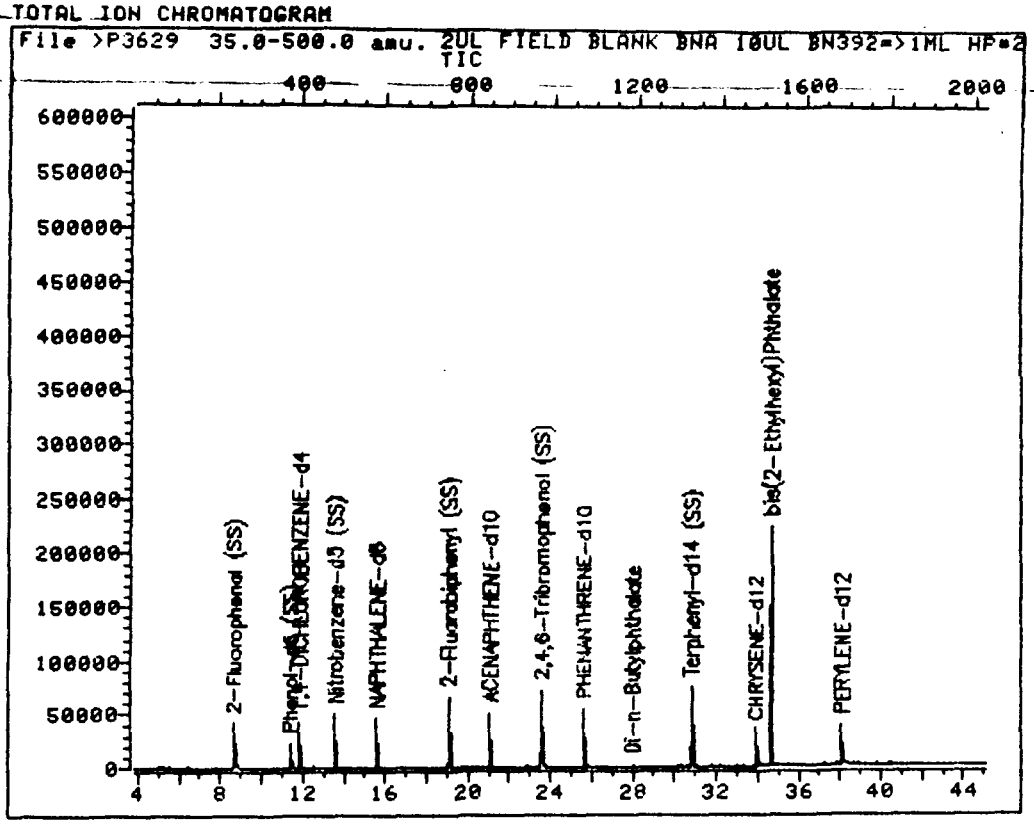
LAB #	762466	762467	762468	762434	762767	762653	762654	762716
LAB # PP								
Client Client Sample #	TSH SB#7	TSH SB#8	TSH SB#10	ECOTEST	ECOTEST	Field Blank	Trip Blank	Field Blank
SCANS	BNA	BNA	BNA	BN/AC	BC	BN/AC	BN/AC	BN/AC
PROTOCOL	CLP	CLP	CLP			CLP	CLP	CLP
EXTRACTION DATE	10-17	10-17	10-17	10-19	10-19	10-19	10-19	10-19
ANALYST	ZHB	ZHB	ZHB			MFB	MFB	MFB
METHOD	SON	SON	SON	SF	SF	SF	SF	SF
SAMPLE VOLUME	25.0008	25.0061	25.0349	1000 mL	500 mL	1000ml	1000ml	1000ml
SURROGATE NUMBER/VOLUME	BN 486 PH 193 1ml each	BN 486 PH 193 1ml each	BN 486 PH 193 1ml each	BN 486 PH 193 1mL each	PH 193 1mL	BN 486 PH 193 1ml each	BN 486 PH 193 1ml each	BN 486 PH 193 1ml each
MATRIX SPIKE NUMBER/VOLUME								
BN EXTRACT SPLIT	N	N	N	N	N	N	N	N
CONCENTRATED DATE/INITIALS BN/AE	ZHB	ZHB	ZHB					
CONCENTRATION VOLUME BN	—	—	—	0.5ml	—	0.5ml	0.5ml	0.5ml
CONCENTRATION VOLUME AE	—	—	—	0.5ml	1ml	0.5ml	0.5ml	0.5ml
(SOIL) BNA	5ml	1ml	1ml	—	—	—	—	—
PP CONCENTRATED DATE/ANALYST								
PP CONCENTRATION VOLUME								
ALUMINA CLEANED								5420
Bio-Beaded	BB							
REMARKS								

Semi-Volatile BNA

Analyst	date	direct Inj.	RUN #	Sample # / Lab #	Client	µl	Comments	Extracts stashed µl	Sol. #	Sol. Vol.	Storage Info. Tape	CRN.	TRACK	QUANT.	Reported Date
GKB	10/29	MS	3609		2	SS-18	762619	10	BN 552	1.0			B2		
			3610			SS-15	762621								
			3611			MW-5A	762952								
			3612			MW-5B	762955								
			3613			762911									
			3614			763340									
			3615			763341									
			3616			763343									
			3617			030/30	761657								
↓	↓	↓	3618		↓	West Stockpile		↓	↓	↓		↓			
GKB	10/30	MS	DF 147		2	MS 44							B1		
			3619	3620		~~Method Blank 208~~	These are OK GKB	10	BN 552	1.0			B1		
			3620	3621		~~MW6~~	~~762955~~								
			3621	3622		~~MW6 MS~~	~~762935~~								
			3622	3623		~~MW6 MSD~~	762935								
			3623	3624		~~MW2~~	762937								
			3624	3625		~~Field~~ Blank									
			3625	3626		Trip Blank									
↓	↓	↓	3626	3627	↓	25 mg/ml HSL Std		↓	↓	↓		↓	↓		
GKB	11/1	MS	DF 149		2	MS 44							B1		
GKB	11/3	MS	DF 149 3627		2	MS 44	50 mg DFTPP						B1		
GKB	11/6	MS	3627			25 mg/ml HSL Std		10	BN 552	1.0			B2		
			3628			Method Blank 206									
			3629			Field Blank	762653								
			3630			Trip Blank	762654								
			3631			SS #20	762617								
			3632			SS #16	762620								
			3633			SS #14	762622								
			3634			SS #13	762623								
↓	↓	↓	3635		↓	SS #12	762624	↓	↓	↓		↓			

9420

TOTAL ION CHROMATOGRAM



Data File: >P3629::B2 Quant Output File: ^P3629::QT
Name: 2UL FIELD BLANK BNA
Misc: 10UL BN392=>1ML HP#2 762653 BTL#63

Id File: !IDXPP::ME
Title: PRIORITY POLLUTANTS
Last Calibration: 871103 12:07

Operator ID: GLENN
Quant Time: 871103 13:49
Injected at: 871103 13:02

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QUANT REPORT

Operator ID: GLENN Quant Rev: 6 Quant Time: 871103 13:49
Output File: ^P3629::QT Injected at: 871103 13:02
Data File: >P3629::B2 Dilution Factor: 1.00000
Name: 2UL FIELD BLANK BNA
Misc: 10UL BN392=>1ML HP#2 762653 BTL#63

ID File: !IDXPP::ME
Title: PRIORITY POLLUTANTS
Last Calibration: 871103 12:07

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-DICHLOROBENZENE-d4	11.83	394	14258	40.00	ug/mL	94
3)	2-Fluorophenol (SS)	8.65	238	33117	85.97	ug/mL	65
6)	Phenol-d6 (SS)	11.38	372	27389	56.02	ug/mL	89
14)	*NAPHTHALENE-d8	15.58	578	47404	40.00	ug/mL	58
15)	Nitrobenzene-d5 (SS)	13.54	478	37944	60.85	ug/mL	82
26)	*ACENAPHTHENE-d10	21.06	847	32067	40.00	ug/mL	94
30)	2-Fluorobiphenyl (SS)	19.08	750	62541	74.82	ug/mL	99
41)	2,4,6-Tribromophenol (SS)	23.56	970	31916	122.38	ug/mL	83
42)	*PHENANTHRENE-d10	25.60	1070	59591	40.00	ug/mL	65
50)	Di-n-Butylphthalate	27.96	1186	3202	1.30	ug/mL	85
52)	*CHRYSENE-d12	33.91	1478	45814	40.00	ug/mL	53
53)	Terphenyl-d14 (SS)	30.81	1326	78753	65.35	ug/mL	38
59)	bis(2-Ethylhexyl)Phthalate	34.64	1514	200597	132.46	ug/mL	87
61)	*PERYLENE-d12	38.07	1682	47348	40.00	ug/mL	78

* Compound is ISTD

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MS data file header from : >P3629

Sample: 2UL FIELD BLANK BNA Operator: GLENN MS 11/03/87 13:02
Misc : 10UL BN392=>1ML HP#2 762653 BTL#63
Sys. #: 2 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: EXTBNA Tuning file: MT8002 No. of extra records: 2
Source temp.: 0 Analyzer temp.: 280 Transfer line temp. : 0

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	4.0	7.3	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	.5	0.0

No peaks found.

Summary of Unknowns PBM Library Search and Quantitation

Standard	Concentration	Area	Retention Time	Unknown Window
1	40.0	95900.	11.83	3.82 - 13.70
2	40.0	113682.	15.58	13.70 - 18.32
3	40.0	144505.	21.06	18.32 - 23.33
4	40.0	149107.	25.60	23.33 - 29.75
5	40.0	124354.	33.91	29.75 - 35.99
6	40.0	142498.	38.07	35.99 - 45.06

Dilution Factor (DF) = 1.00 Fractional Solids (FS) = 1.00
Amount Method (AM) = 1000.00 Amount Used (AU) = 1000.00

Correction Factor = 1.00 = (AM / AU) / (DF * FS)

$$\text{Unknown Concentration} = \frac{\text{Conc Int Std}}{\text{Area Int Std}} * \text{Area Unk} * \text{Correction Factor}$$

8:13 PM TUE., 10 NOV., 1987

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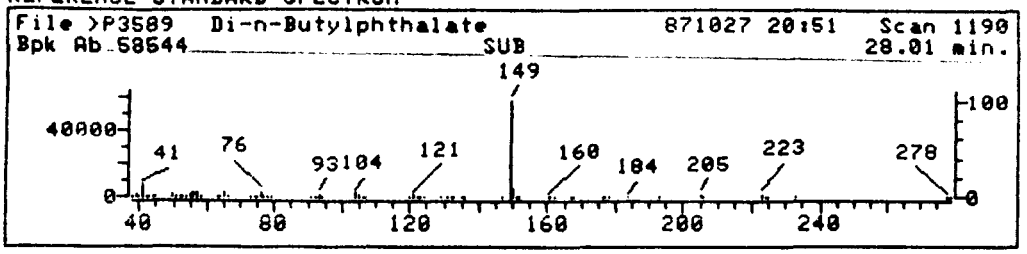
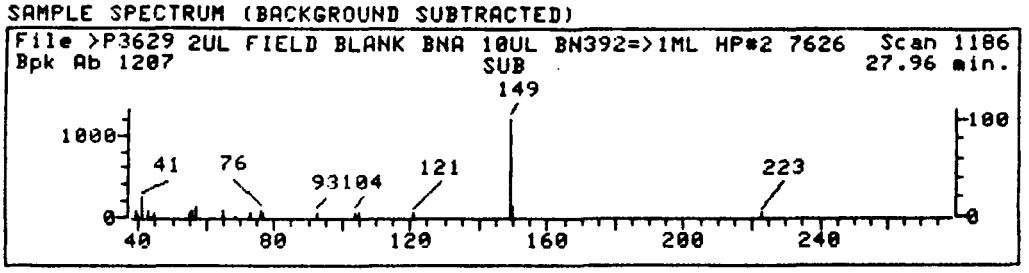
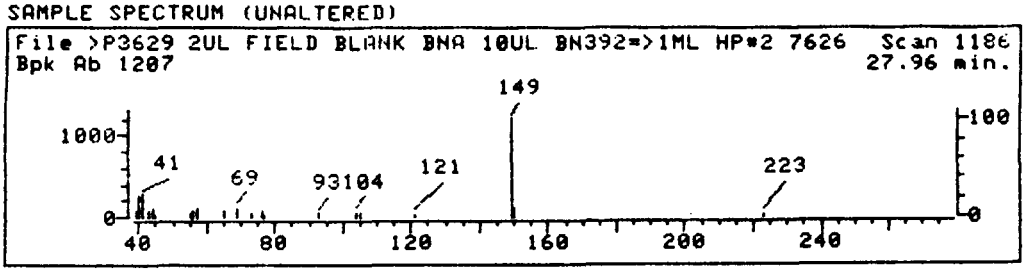
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



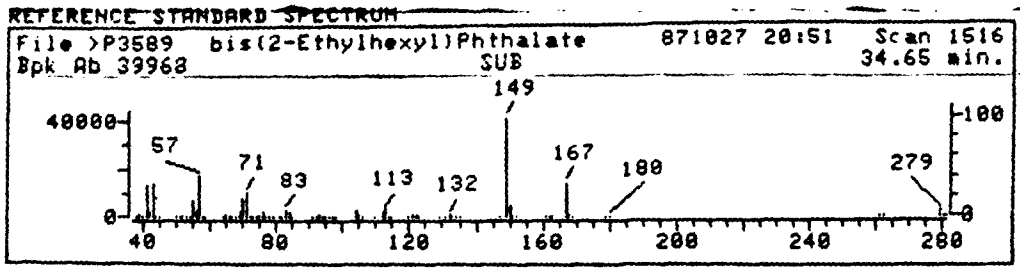
SAMPLE SPECTRUM (UNALTERED)



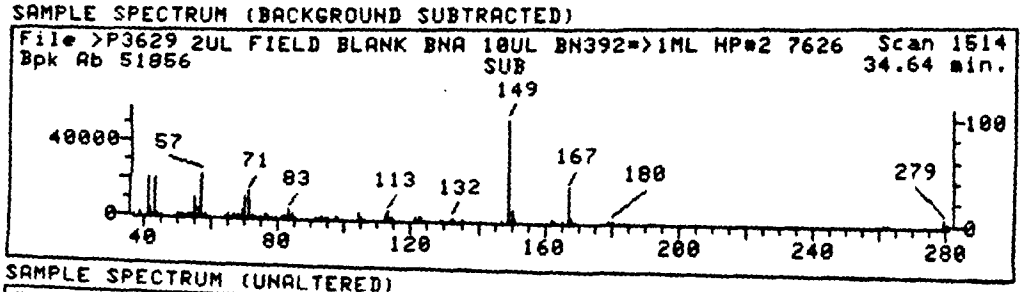
Data File: >P3629::B2 Quant Output File: ^P3629::QT
Name: 2UL FIELD BLANK BNA
Misc: 10UL BN392=>1ML HP#2 762653 BTL#63
Quant Time: 871103 13:49 Quant ID File: !IDXPP::ME
Injected at: 871103 13:02 Last Calibration: 871103 12:07

Compound No: 50
Compound Name: Di-n-Butylphthalate
Scan Number: 1186
Retention Time: 27.96 min.
Quant Ion: 149.0
Area: 3202
Concentration: 1.30 ug/mL
q-value: 85

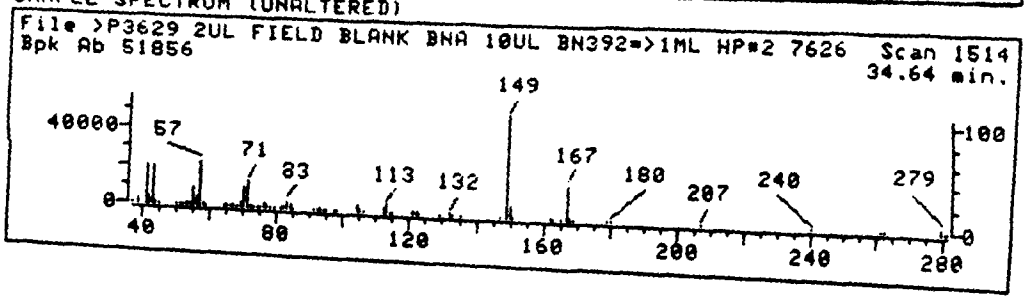
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >P3629::B2
Name: 2UL FIELD BLANK BNA
Misc: 10UL BN392=>1ML HP#2 762653
Quant Time: 871103 13:49
Injected at: 871103 13:02

Quant Output File: ^P3629::QT
Quant ID File: !IDXPP::ME
Last Calibration: 871103 12:07

BTL#63

Compound No: 59
Compound Name: bis(2-Ethylhexyl)Phthalate
Scan Number: 1514
Retention Time: 34.64 min.
Quant Ion: 149.0
Area: 200597
Concentration: 132.46 ug/mL
q-value: 87

SEA001 0281

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