

User: Vinci, David L
Westchester Dept. of Labs & Research
Date: 05/17/2002 Time: 15:58:29

Sample: AE10207
Analysis: \$GCMS GCMS Scan For Unknowns
Units: ug
Started: 5/17/02 15:40 Ended: 5/17/02 15:40 Analyst: DLV
Page: 1

	Component Name	Viol	Result	Qualifier	MDL
1	Other unknown compounds		.		
2	Surr_2,4-DDD		75		10.0

58
4/28/02 Ribeiro

Comments for Sample AE10207 - Analysis \$GCMS

Westchester Dept. of Labs & Research

User: Vinci, David L

Date: 05-17-2002 Time: 16:02:12

The GCMS scan, from 35 to 550 amu, reveals the presence of 4-octadecyl Morpholine at an estimated level of 0.49 ug/l and with a fit of 64 out of 100, n-Nonanal n-methyl-n-formylhydrazine at an estimated level of 0.41 ug/l and with a fit of 59 out of 100, and 6-Undecylamine at an estimated level of 0.26 ug/l and with a fit of 36 out of 100.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\020509\10207.D

Vial: 9

Acq On : 9 May 2002 6:32 pm

Operator: Nefliu

Sample : sample

Inst : Instrumen

Misc :

Multiplr: 1.00

MS Integration Params: rteint.e

Quant Time: May 14 14:12:36 2002

Quant Results File: SCAN020507.RE

Quant Method : C:\MSDCHEM\1\METHODS\SCAN020507.M (RTE Integrator)

Title : Method 508 GC/MS Scan

Last Update : Thu May 09 09:21:01 2002

Response via : Initial Calibration

DataAcq Meth : 508SCAN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	11.38	152	629553	40.00	ug/l	-0.01
10) Naphthalene-d8	16.54	136	2389564	40.00	ug/l	-0.03
17) Acenaphthene-d10	24.47	164	1282134	40.00	ug/l	-0.01
30) Phenanthrene-d10	31.73	188	2215849	40.00	ug/l	-0.01
38) Chrysene-d12	39.94	240	1828816	40.00	ug/l	-0.05
44) Perylene-d12	43.16	264	1194936	40.00	ug/l	-0.02

System Monitoring Compounds

27) TCMX	27.54	207	77079	7.53	ug/l	-0.04
Spiked Amount	10.000		Recovery	=	75.30%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
35) Di-n-butylphthalate	34.80	149	11580	0.16	ug/l	88
43) Bis(2-ethylhexyl)phthalate	40.52	149	30307	0.77	ug/l	89

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 10207.D SCAN020507.M Tue May 14 14:13:26 2002 Page 1

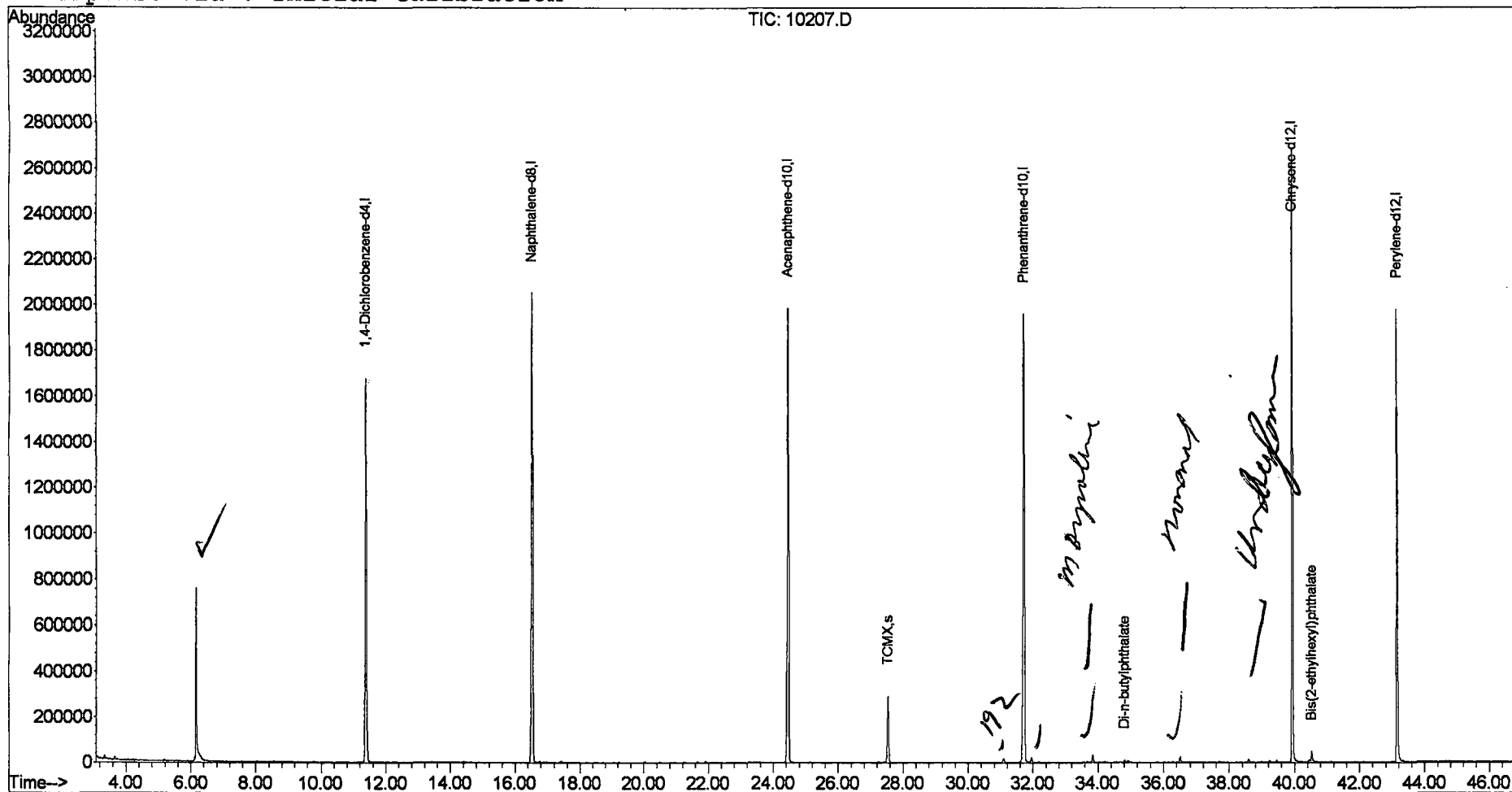
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\020509\10207.D
Acq On : 9 May 2002 6:32 pm
Sample : sample
Misc :
MS Integration Params: rteint.e
Quant Time: May 14 14:13 2002

Vial: 9
Operator: Nefliu
Inst : Instrumen
Multiplr: 1.00

Quant Results File: SCAN020507.RES

Method : C:\MSDCHEM\1\METHODS\SCAN020507.M (RTE Integrator)
Title : Method 508 GC/MS Scan
Last Update : Thu May 09 09:21:01 2002
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\020509\10207.D

Acq On : 9 May 2002 6:32 pm

Sample : sample

Misc :

MS Integration Params: rteint.e

Vial: 9

Operator: Nefliu

Inst : Instrumen

Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\SCAN020507.M (RTE Integrator)

Title : Method 508 GC/MS Scan

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 0.7 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

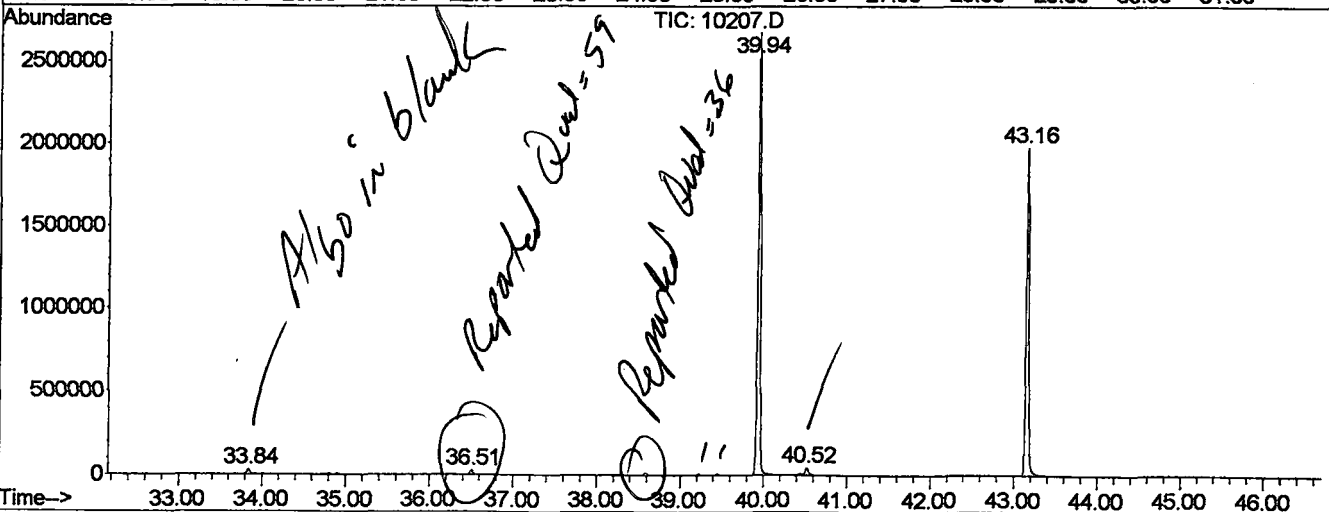
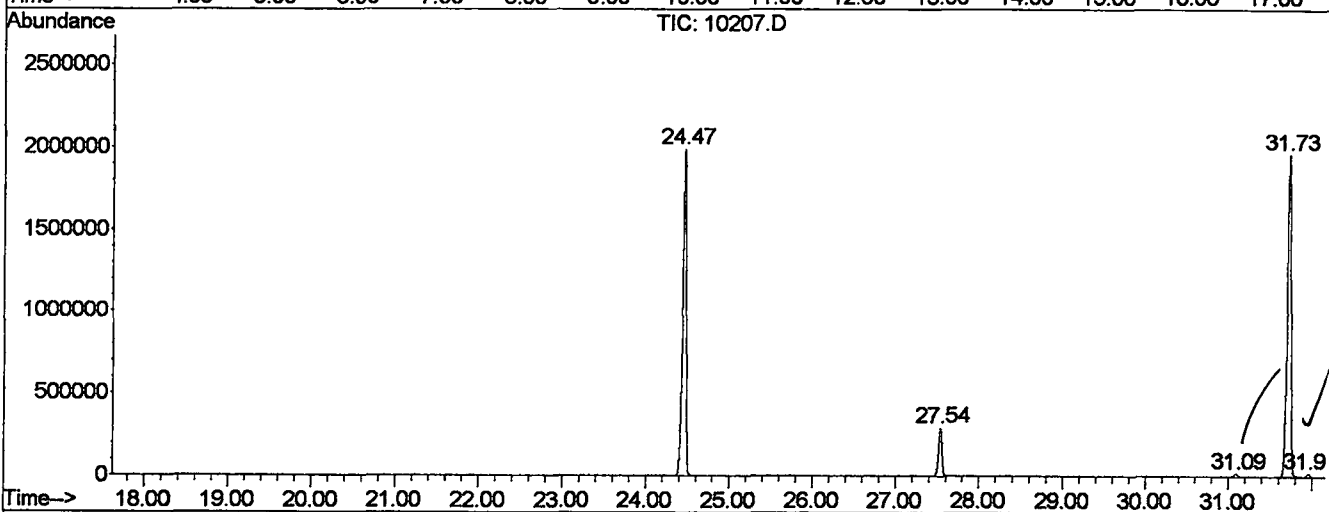
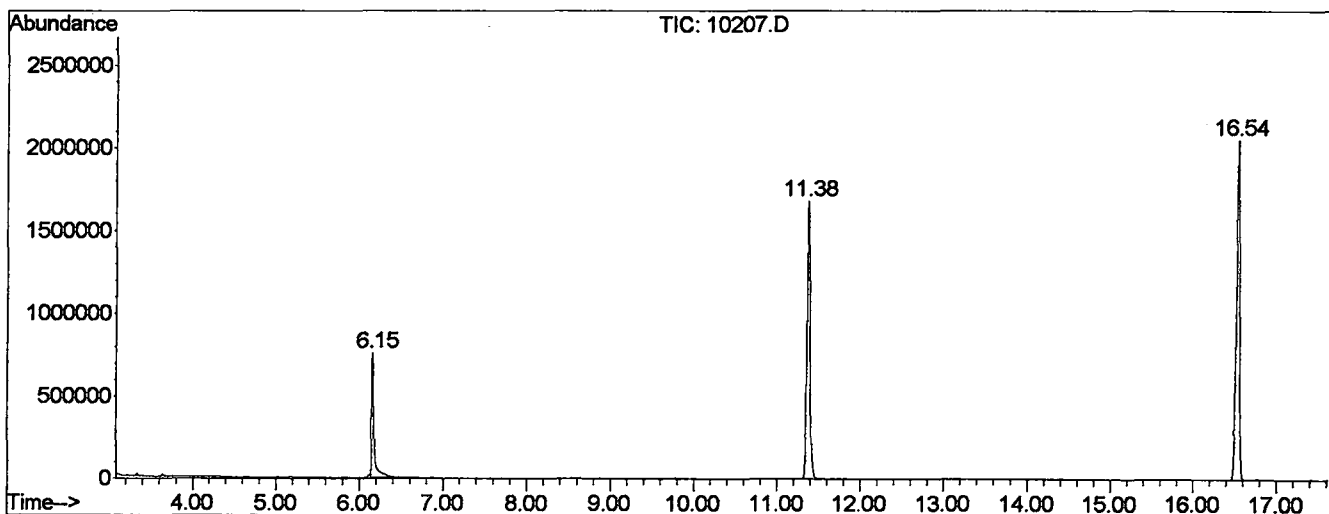
Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.152	519	523	568	rVB	755601	1549455	25.12%	4.517%
2	11.375	1399	1412	1434	rBV	1676042	4359036	70.68%	12.708%
3	16.540	2275	2291	2305	rBV	2050001	5486512	88.96%	15.995%
4	24.466	3620	3640	3657	rBV	1987267	5794751	93.96%	16.894%
5	27.539	4148	4163	4174	rBV3	291715	820243	13.30%	2.391%
6	31.094	4754	4768	4779	rVB3	18000	53102	0.86%	0.155%
7	31.728	4856	4876	4895	rBV2	1957742	6167463	100.00%	17.981%
8	31.958	4904	4915	4922	rBV3	20516	52046	0.84%	0.152%
9	33.838	5219	5235	5244	rBV	29949	75770	1.23%	0.221%
10	36.511	5682	5690	5699	rVB	25642	57947	0.94%	0.169%
11	39.937	6261	6273	6289	rBV2	2673965	5595718	90.73%	16.314%
12	40.518	6366	6372	6387	rVB2	45315	120984	1.96%	0.353%
13	43.156	6809	6821	6849	rBV2	1979331	4167576	67.57%	12.150%

Sum of corrected areas: 34300603

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM\1\DATA\020509\10207.D
 Operator : Nefliu
 Acquired : 9 May 2002 6:32 pm using AcqMethod 508SCAN1
 Instrument : Instrumen
 Sample Name: sample
 Misc Info :
 Vial Number: 9
 Quant File :SCAN020507.RES (RTE Integrator)



Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\020509\10207.D

Acq On : 9 May 2002 6:32 pm

Sample : sample

Misc :

MS Integration Params: rteint.e

Vial: 9

Operator: Nefliu

Inst : Instrumen

Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\METHODS\SCAN020507.M (RTE Integrator)

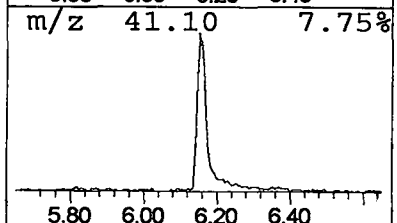
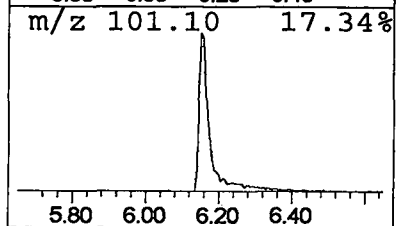
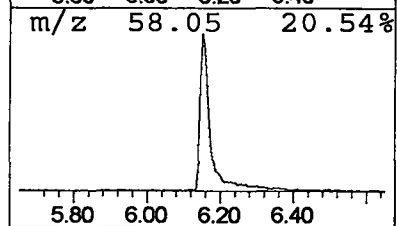
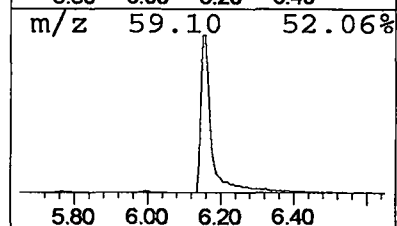
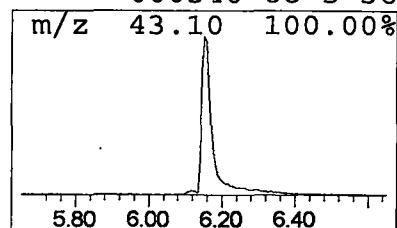
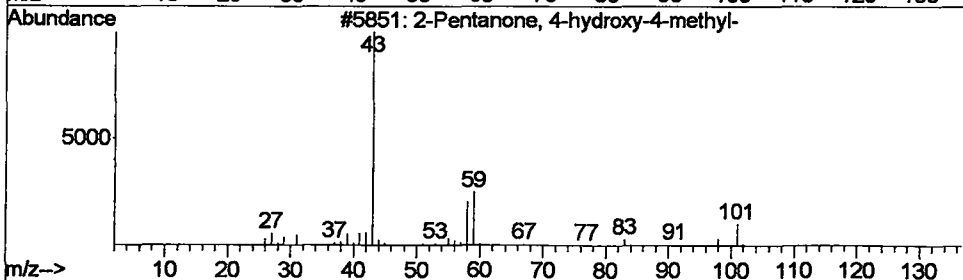
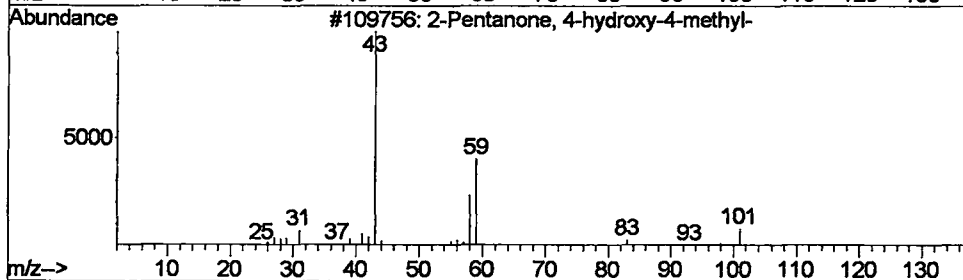
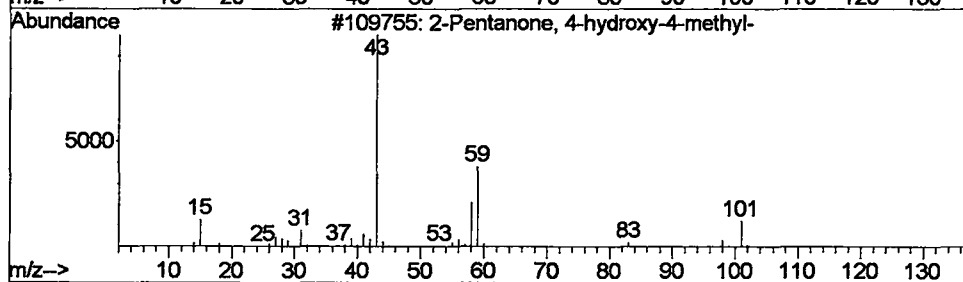
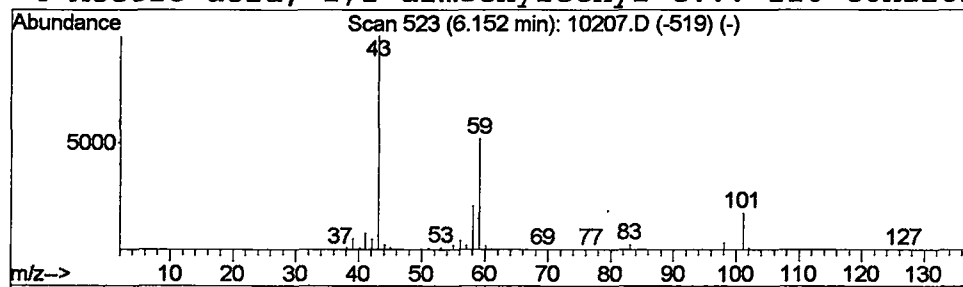
Title : Method 508 GC/MS Scan

Library : C:\DATABASE\mist98.1

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.15	14.22 ug/l	1549460	1,4-Dichlorobenzene-d4	11.38

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
✓1			2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	83
2			2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
3			2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	42
4			Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	36



Library Search Compound Report

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 Acq On : 9 May 2002 6:32 pm
 Sample : sample
 Misc :
 MS Integration Params: rteint.e

Vial: 9
 Operator: Nefliu
 Inst : Instrumen
 Multiplr: 1.00

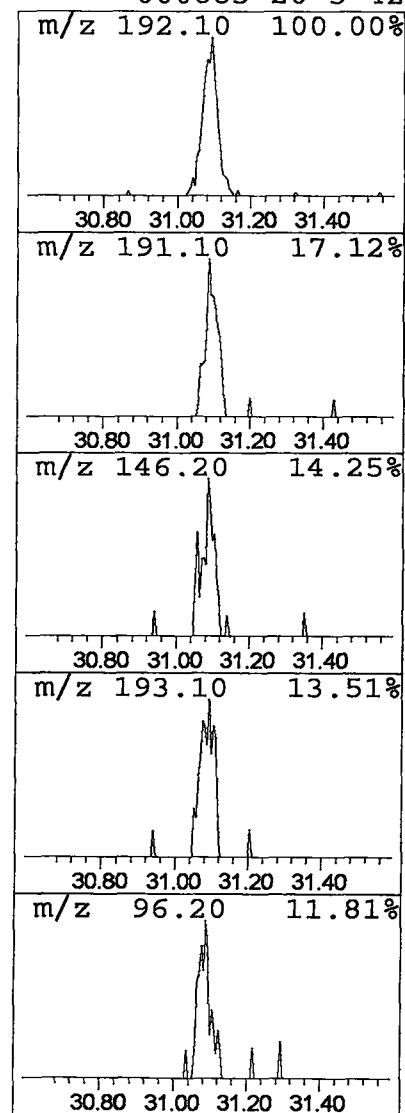
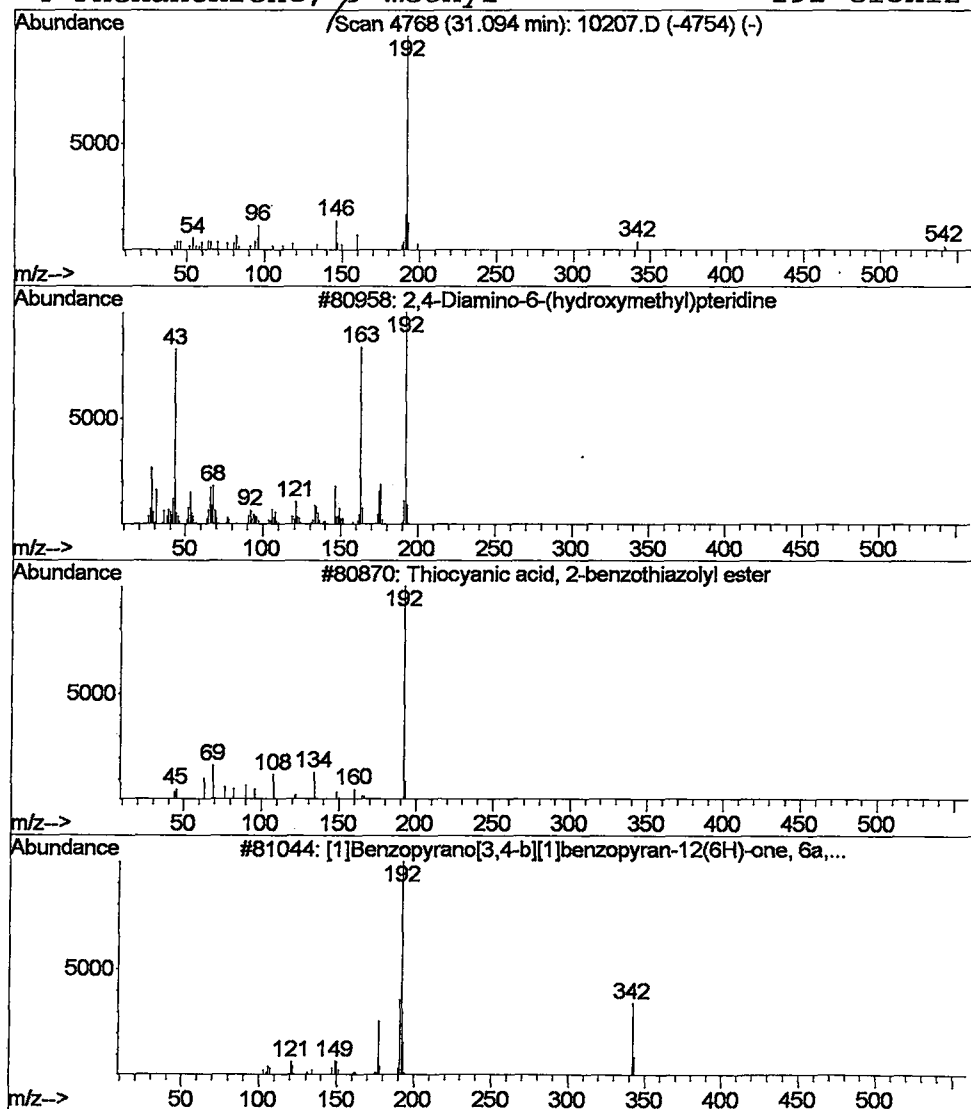
always present

Quant Method : C:\MSDCHEM\1\METHODS\SCAN020507.M (RTE Integrator)
 Title : Method 508 GC/MS Scan
 Library : C:\DATABASE\nist98.1

 Peak Number 2 2,4-Diamino-6-(hydroxymethy... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
31.09	0.34 ug/l	53102	Phenanthrene-d10	31.73

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	2,4-Diamino-6-(hydroxymethyl)pte...	192	C7H8N6O	000945-24-4	59
2		Thiocyanic acid, 2-benzothiazoly...	192	C8H4N2S2	006011-99-0	53
3		[1]Benzopyrano[3,4-b][1]benzopyr...	342	C19H18O6	003564-85-0	45
4		Phenanthrene, 9-methyl-	192	C15H12	000883-20-5	42



Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\020509\10207.D
Acq On : 9 May 2002 6:32 pm
Sample : sample
Misc :
MS Integration Params: rteint.e

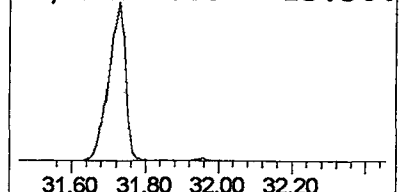
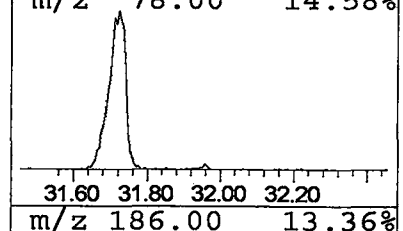
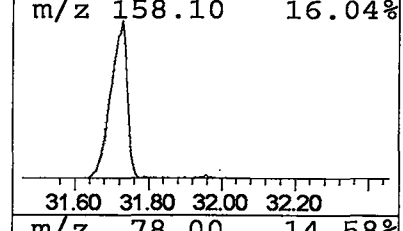
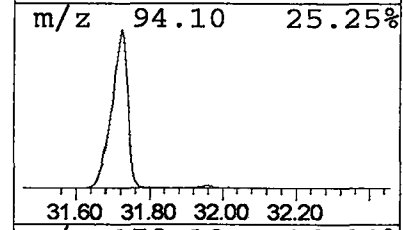
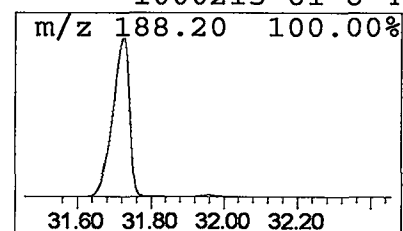
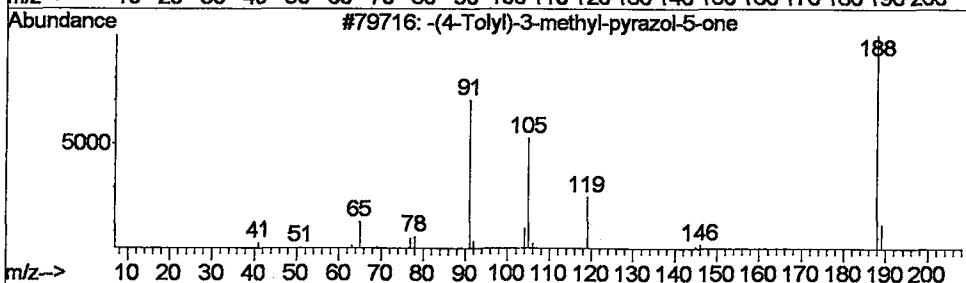
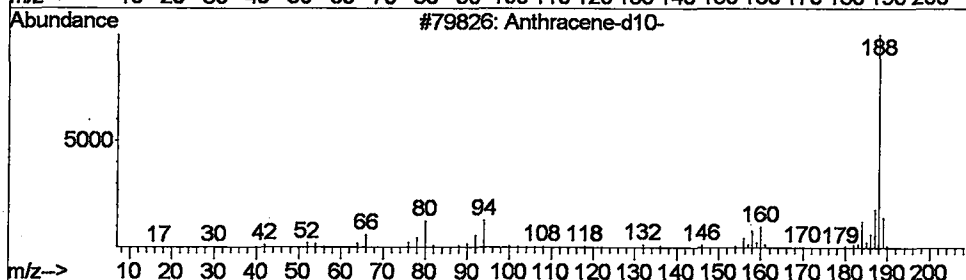
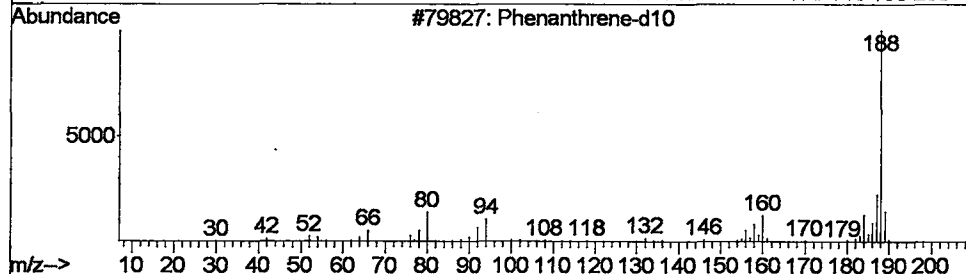
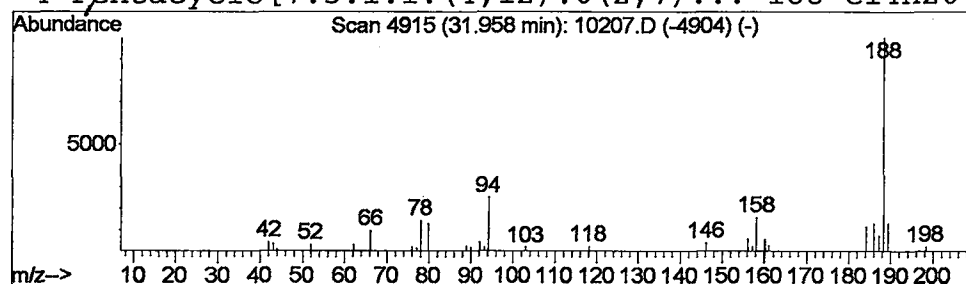
Vial: 9
Operator: Nefliu
Inst : Instrumen
Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\METHODS\SCAN020507.M (RTE Integrator)
Title : Method 508 GC/MS Scan
Library : C:\DATABASE\nist98.1

Peak Number 3 Phenanthrene-d10 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
31.96	0.34 ug/l	52046	Phenanthrene-d10	31.73

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene-d10	188	C14D10	001517-22-2	87
2		Anthracene-d10	188	C14D10	001719-06-8	80
3		-(4-Tolyl)-3-methyl-pyrazol-5-one	188	C11H12N2O	035496-19-6	43
4		Pentacyclo[7.3.1.1.(4,12).0(2,7)...]	188	C14H20	1000215-61-8	42



Library Search Compound Report

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Acq On : 9 May 2002 6:32 pm

Sample : sample

Misc :

MS Integration Params: rteint.e

Vial: 9

Operator: Nefliu

Inst : Instrumen

Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\METHODS\SCAN020507.M (RTE Integrator)

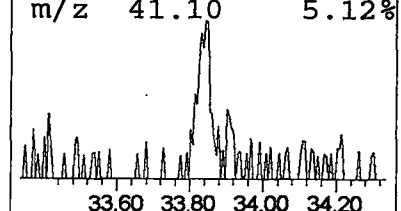
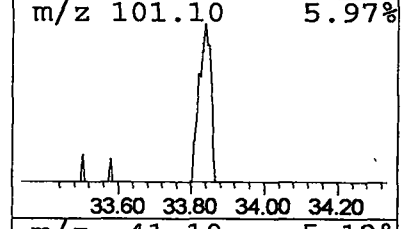
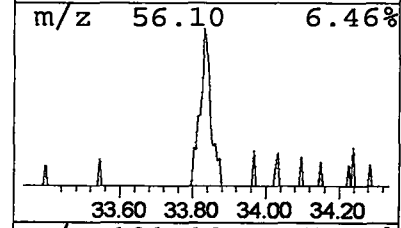
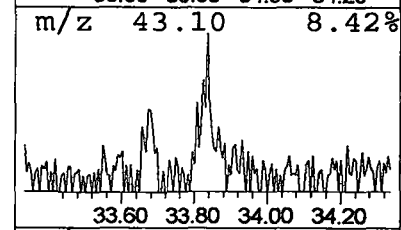
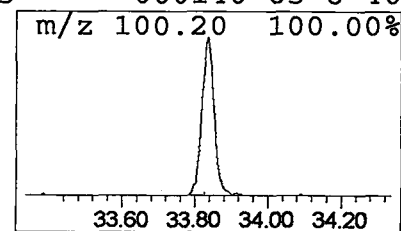
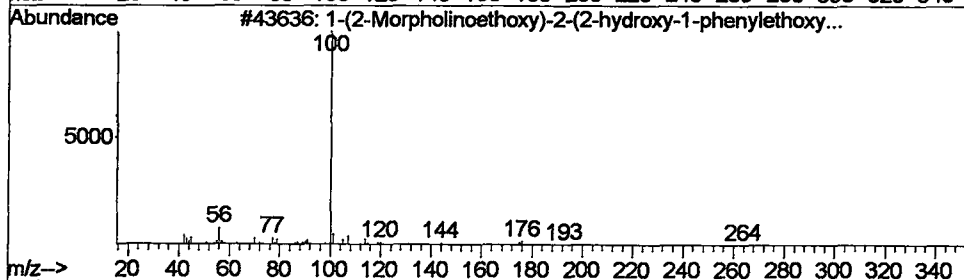
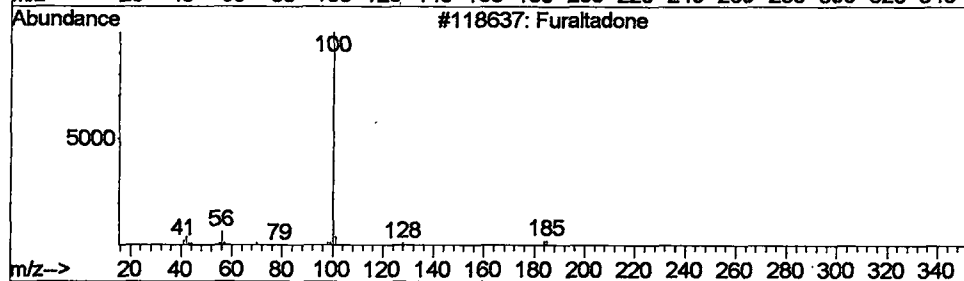
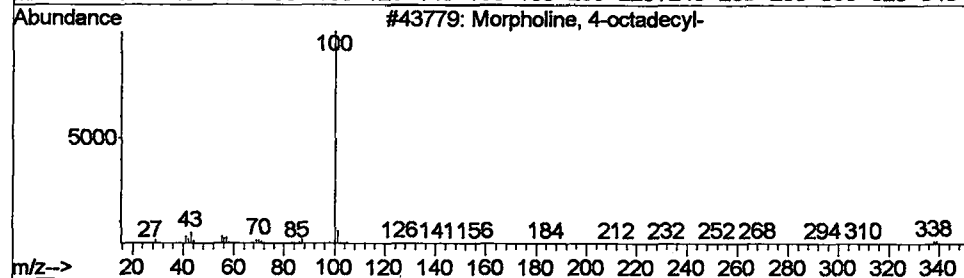
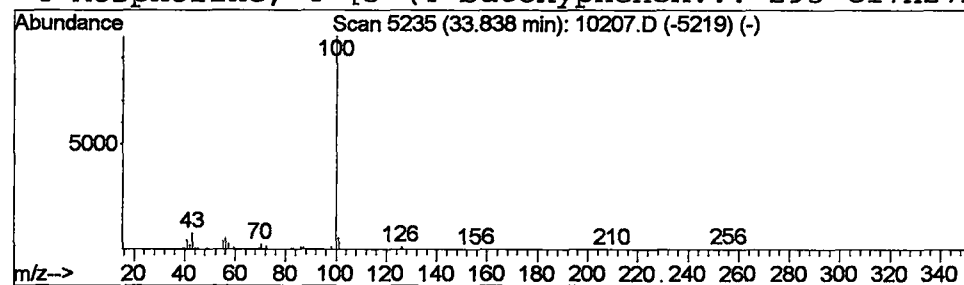
Title : Method 508 GC/MS Scan

Library : C:\DATABASE\nist98.1

Peak Number 4 Morpholine, 4-octadecyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
33.84	0.49 ug/l	75770	Phenanthrene-d10	31.73

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Morpholine, 4-octadecyl-	339	C22H45NO	016528-77-1	64
2			Furaltadone	324	C13H16N4O6	000139-91-3	56
3			1-(2-Morpholinoethoxy)-2-(2-hydr...	295	C16H25NO4	1000215-99-2	40
4			Morpholine, 4-[3-(4-butoxyphenox...	293	C17H27NO3	000140-65-8	40



Library Search Compound Report

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 MS Integration Params: rteint.e

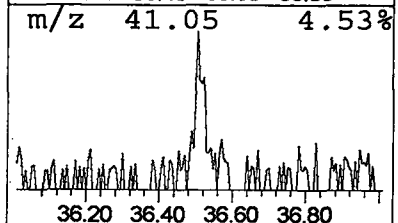
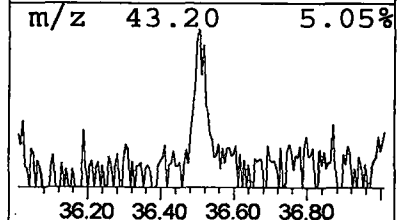
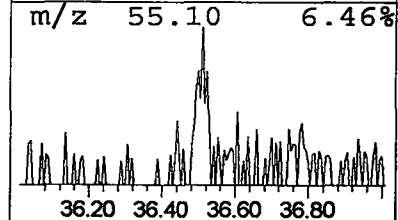
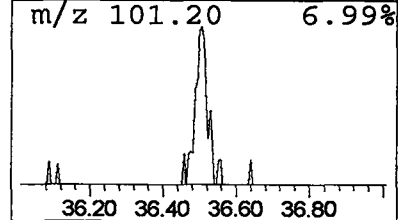
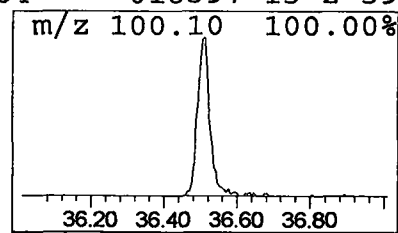
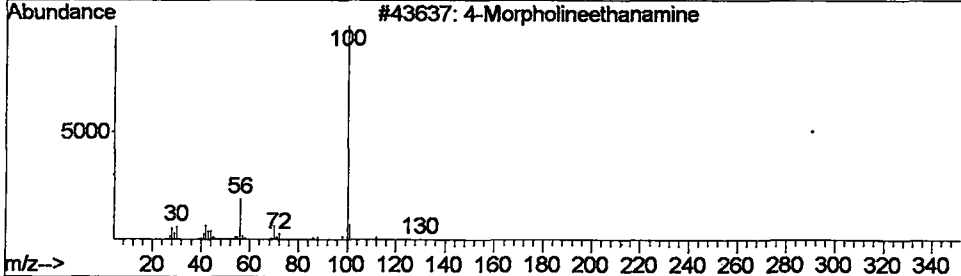
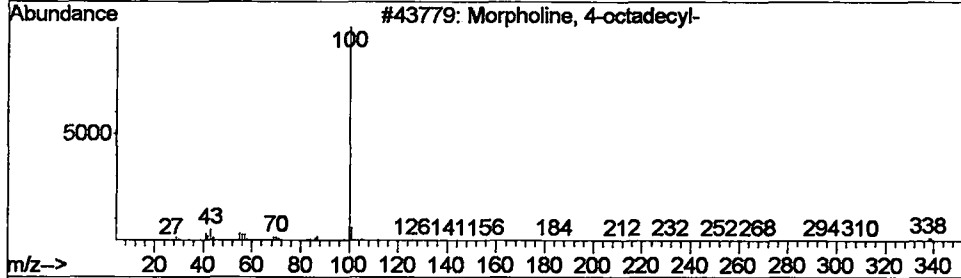
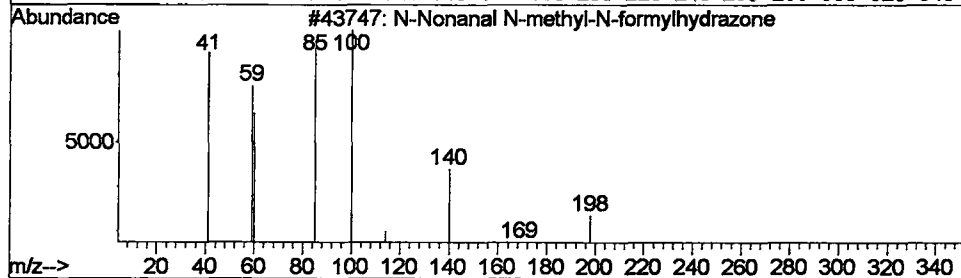
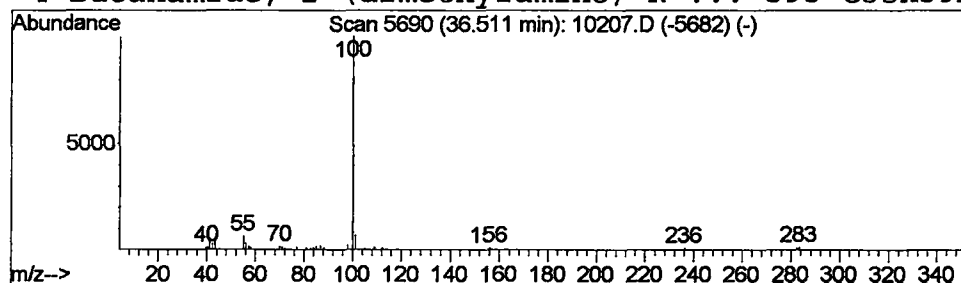
Vial: 9
 Operator: Nefliu
 Inst : Instrumen
 Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\METHODS\SCAN020507.M (RTE Integrator)
 Title : Method 508 GC/MS Scan
 Library : C:\DATABASE\nist98.1

 Peak Number 5 N-Nonanal N-methyl-N-formyl... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
36.51	0.41 ug/l	57947	Chrysene-d12	39.94

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	N-Nonanal N-methyl-N-formylhydra...	198	C11H22N2O	061748-14-9	59
2		Morpholine, 4-octadecyl-	339	C22H45NO	016528-77-1	50
3		4-Morpholineethanamine	130	C6H14N2O	002038-03-1	40
4		Butanamide, 2-(dimethylamino)-N-...	593	C35H39N5O4	018397-13-2	39



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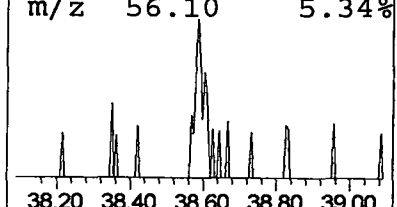
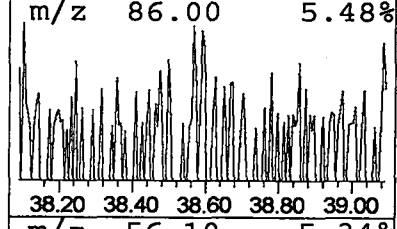
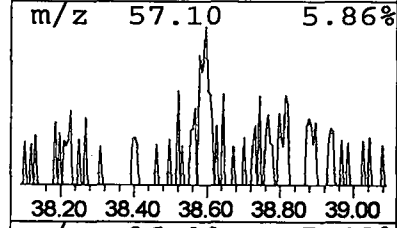
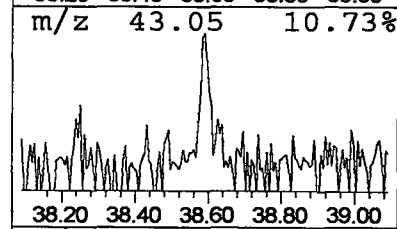
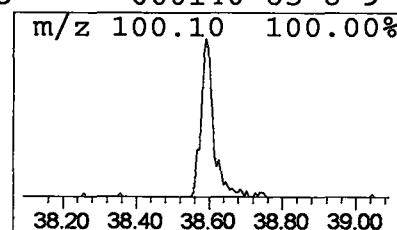
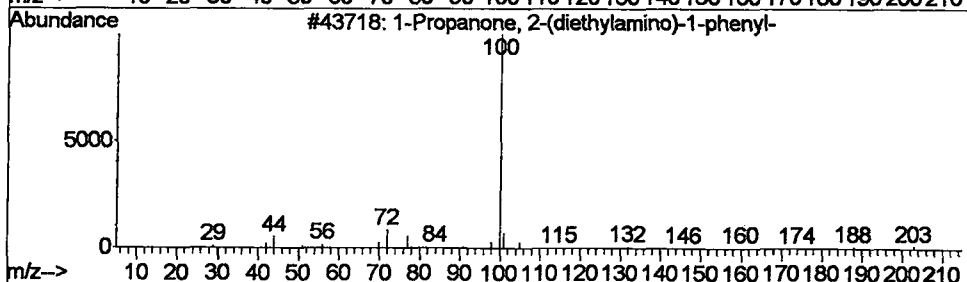
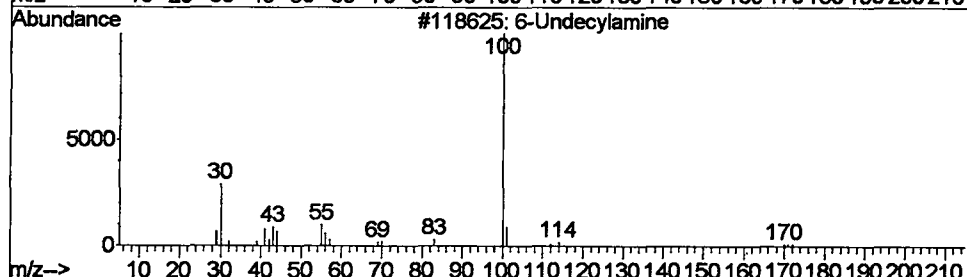
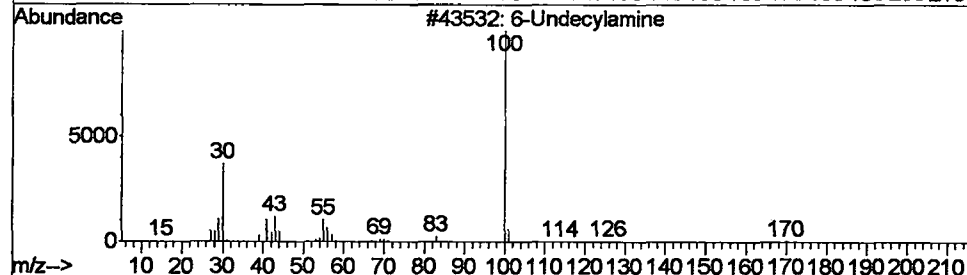
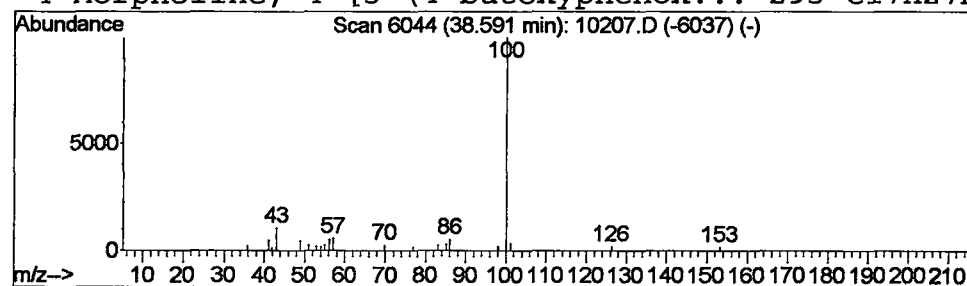
Vial: 9
 Operator: Nefliu
 Inst : Instrumen
 Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\METHODS\SCAN020507.M (RTE Integrator)
 Title : Method 508 GC/MS Scan
 Library : C:\DATABASE\nist98.1

 Peak Number 1 6-Undecylamine Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
38.59	0.26 ug/l	35885	Chrysene-d12	39.94

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			6-Undecylamine	171	C11H25N	033788-00-0	36
2			6-Undecylamine	171	C11H25N	033788-00-0	36
3			1-Propanone, 2-(diethylamino)-1-...	205	C13H19NO	000090-84-6	9
4			Morpholine, 4-[3-(4-butoxyphenox...	293	C17H27NO3	000140-65-8	9



Tentatively Identified Compound (LSC) summary

Operator ID: Nefliu Date Acquired: 9 May 2002 6:32 pm
Data File: C:\MSDCHEM\1\DATA\020509\10207.D
Name: sample
Misc:
Method: C:\MSDCHEM\1\METHODS\SCAN020507.M (RTE Integrator)
Title: Method 508 GC/MS Scan
Library Searched: C:\DATABASE\nist98.1

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard---			
					#	RT	Resp	Conc
✓ 2-Pentanone, 4-hy...	6.15	14.2	ug/l	1549460	1	11.38	4359040	40.0
2,4-Diamino-6-(hy...	31.09	0.3	ug/l	53102	4	31.73	6167460	40.0
✓ Phenanthrene d10 <i>Phenanthrene d10</i>	31.96	0.3	ug/l	52046	4	31.73	6167460	40.0
Morpholine, 4-oct...	33.84	0.5	ug/l	75770	4	31.73	6167460	40.0
N-Nonanal N-methy...	36.51	0.4	ug/l	57947	5	39.94	5595720	40.0



ENVIRONMENTAL SERVICES SAMPLE SUBMISSION FORM WESTCHESTER COUNTY LABORATORIES AND RESEARCH

2 Dana Road, Valhalla, New York 10595
(914) 231-1620 Fax (914) 231-1772



Time/Date Set:

Sample Type (circle one):

1. Potable 3. Non Potable Treated
2. Non Potable 4. Other

Time/Date Collected: 10/28/2002

Collected By: J. Ribando Agency Code: _____

Collected From:

Location's/Individual's Name _____

Street _____

City/St/Zip _____

Identification of Source _____

Collection Point 58

Bottle #'s: _____

Chain of Custody? ____ Yes ____ No

Comments:

PWS #: _____ Source ID: _____ Type Descriptor: _____

Bill to:

Name/Company _____

Street _____

City/St/Zip _____

Phone#: _____ Fax#: _____

CA, CH, BI? _____ Check#: _____ Amount\$ _____

BACTERIOLOGICAL ANALYSIS

Lab#: _____

- ___ Heterotrophic Plate Count (hemodialysis & all others)
___ Coliform P/A (Public supplies)
___ Coliform MPN (priv well, raw, stp)
___ Fecal Coliform (all samples)
___ Microscopic
___ Macroscopic
___ API
___ Other: _____

Refrigerated? ____ yes ____ no

Chlorinated?: ____ yes ____ no

Free Chlorine Res: _____ mg/L

Total Chlorine Res: _____ mg/L

pH _____

RADIOCHEMICAL ANALYSIS

___ Radon

___ Other _____

Lab#: _____

ORGANIC POTABLE ANALYSIS

- ___ Trihalomethanes (524)
___ Volatile Halocarbons (524)
___ Volatile Aromatics (524)
___ Total Trihalomethane Potential (510)
___ Microextractables (504)
___ Pesticides/PCB screen (508)
___ PCB as Decachlorobiphenyl (508A)
___ Herbicides (515)
___ Pesticides (525)
___ Carbamate Pesticides (531)
___ Glyphosate (547)
___ Diquat (549)
___ Chlorination Disinfection Byproducts (551)
___ Haloacetic Acids (552)
___ Other Pesticides (SM18/6630)
___ UCMR List 1
___ MIBE Only (524)

ORGANIC NONPOTABLE/SOLID ANALYSIS

- ___ Purgeable Halocarbons (624/8260)
___ Purgeable Aromatics (624/8260)
___ Acrolein & Acrylonitrile (8260)
___ Organochlorine Pesticides (608/8081)
___ PCB's (Aroclors) (608/8081)
___ Herbicides (SM18/6630,8151)
___ Other Pesticides (SM18/6630)
___ Petroleum Hydrocarbon Scan (310-13)
___ Glycols in Water
___ Acid Extractables (625/8270)
___ Base Neutral Extractables (625/8270)
___ GC/MS Unknown Scan
___ Phthalates (606MS)
___ Other: _____

INORGANIC ANALYSIS REQUESTED - Lab#: 10207

- ___ Color
___ Turbidity
___ pH
___ Conductivity
___ Corrosivity (temp: _____ °C)
___ BOD (5 day)
___ Carbonaceous BOD (5 day)
___ Soluble BOD (5 day)
___ Chemical Oxygen Demand
___ Dissolved Oxygen
___ Total Organic Carbon
___ Total Organic Halides
___ Solids, Percent (%)
___ Solids, Settleable
___ Solids, Suspended
___ Solids, Total
___ Solids, Total Dissolved
___ Solids, Total Volatile
___ Other: 58

- ___ Acidity
___ Alkalinity
___ Bromide
___ Bromate/Chlorate/Chlorite
___ Chloride
___ Cyanide
___ Fluoride
___ Hardness, Total as CaCO₃
___ Nitrogen, Ammonia as N
___ Nitrogen, Nitrate as N
___ Nitrogen, Nitrite as N
___ Nitrogen, Total Kjeldahl as N
___ Oil and Grease
___ Phenol
___ Phosphorus Total as P
___ Phosphorus, Ortho as P
___ Sulfates
___ Surfactants
___ UV254

- ___ Aluminum
___ Antimony
___ Arsenic
___ Barium
___ Beryllium
___ Boron
___ Cadmium
___ Calcium, as CaCO₃
___ Calcium, Ca⁺²
___ Chromium, Total
___ Chromium, Hexavalent
___ Cobalt
___ Copper
___ Iron
___ Lead
___ Magnesium
___ Manganese
___ Mercury
___ Molybdenum
___ Nickel

- ___ Potassium
___ Selenium
___ Silver
___ Sodium
___ Thallium
___ Vanadium
___ Zinc

CLP

- ___ Metals/CN
___ Volatiles
___ Semi-volatiles
___ Pesticides/PCB's

TCLP

- ___ TCLP-Metals
___ TCLP-Pesticides
___ TCLP-Herbicides
___ TCLP-Volatiles
___ TCLP-BNA's