User: Vinci, David L
Westchester Dept. of Labs & Research
Date: 03/14/2002 Time: 17:08:04

Sample: AE03472
Analysis: $GCMS GCMS Scan For Unknowns
Units: ug
Started: 3/14/02 17:07 Ended: 3/14/02 17:07 Analyst: DLV
Page: 1

	Component Name	Viol	Result	Qualifier	MDL
1	Other unknown compounds		.		
2	Surr_2,4-DDD		96		5.0

2058 .99 MG/L CAS
PATEL
2/13/02
RT = 33.40

Comments for Sample AE03472 - Analysis $GCMS

Westchester Dept. of Labs & Research
User: Vinci, David L
Date: 03-18-2002 Time: 10:47:12

The GCMS scan, from 35 to 550 amu reveals the presence of a poorly identified hydrocarbon at an estimated level of 0.99 ug/l. The recoveries for 2 of the 43 compounds in the LCS Standard were outside of their acceptance ranges.

Westchester gov.com

ENVIRONMENTAL SERVICES SAMPLE SUBMISSION FORM
WESTCHESTER COUNTY LABORATORIES AND RESEARCH

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

ACCREDITED IN ACCORDANCE WITH nelac
NYS-ELAP No. 10108
Form A-70 (rev.10/01)

Time/Date Set: C-1496 P-2690.26 #4

Sample Type (circle one):
1. Potable 3. Non Potable *Treated*
2. Non Potable 4. Other _____

Time/Date Collected: 9:30 AM 2/13/02
Collected By: M PATEL Agency Code: _____

Collected From:
Location's/Individual's Name _____
Street _____
City/St/Zip _____
Identification of Source _____
Collection Point 0058

Bottle #'s: Q - 2534, 2533
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
___ MtBE Only (524)

ORGANIC NONPOTABLE/ SOLID ANALYSIS
___ Purgeable Halocarbons (624/8260)
___ Purgeable Aromatics (624/8260)
___ Acrolein & Acrylonitrile (8260)
___ Organochlorine Pesticides (608/8081)
___ PCB's (Arochlors) (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#: 3472

___ 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: _____

___ Acidity
___ Alkalinity
___ Bromide
___ Bromate/Chlorate/Chlorite
___ Chloride
___ Cyanide
___ Fluoride
___ Hardness, Total as $CaCO_3$
___ 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 $CaCO_3$
✓ 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-violatiles
___ Pesticides/PCB's

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

Data File : C:\MSDCHEM\1\DATA\022802\03472.D Vial: 21
Acq On : 1 Mar 2002 4:58 am Operator: McLean
Sample : Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: BENZO.P
Quant Time: Mar 13 06:54:52 2002 Quant Results File: 5080202.RES

Quant Method : C:\MSDCHEM\1\5973N\5080202.M (RTE Integrator)
Title : Quantitation For Method 508gcscan
Last Update : Mon Feb 25 19:17:14 2002
Response via : Initial Calibration
DataAcq Meth : 508SCAN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.58	150	1150793	20.00	ug/L	0.00
10) Naphthalene-d8	13.05	136	3063175	20.00	ug/L	0.00
17) Acenaphthene-d10	18.16	164	1728497	20.00	ug/L	0.00
29) Phenanthrene-d10	22.52	188	2649616	20.00	ug/L	0.00
38) Chrysene-d12	30.33	240	2437803	20.00	ug/L	-0.03
44) Perylene-d12	34.20	264	1539992	20.00	ug/L	-0.02
System Monitoring Compounds						
37) 2,4-ddd surr	27.46	235	202637	4.82	ug/L	0.00
Spiked Amount 5.000			Recovery = 96.40%			
Target Compounds						Qvalue
2) N-nitroso-dimethyl amine	0.00	74	0	N.D.		
3) bis(2-chloroethyl) ether	0.00	93	0	N.D.		
4) 1,3 - Dichlorobenze	0.00	146	0	N.D.		
5) 1,4 - Dichlorobenzene	0.00	146	0	N.D.		
6) 1,2 - Dichlorobenzene	0.00	146	0	N.D.		
7) 2,2 ' - oxybis (1-Chloropr	0.00	45	0	N.D.		
8) N-Nitroso-di-n-propylamine	0.00	70	0	N.D.		
9) Hexachloroethane	0.00	117	0	N.D.		
11) Nitrobenzene	0.00	77	0	N.D.		
12) Isophorone	0.00	82	0	N.D.		
13) bis(2-Chloroethoxy) methan	0.00	93	0	N.D.		
14) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
15) Naphthalene	0.00	128	0	N.D.		
16) Hexachlorobutadiene	0.00	225	0	N.D.		
18) Hexachlorocyclopentadiene	0.00	237	0	N.D.		
19) 2-chloronaphthalene	0.00	162	0	N.D.		
20) Dimethylphthalate	0.00	163	0	N.D.		
21) 2,6-Dinitrotoluene	0.00	165	0	N.D. d		
22) Acenaphthylene	0.00	152	0	N.D.		
23) Acenaphthene	0.00	153	0	N.D.		
24) 2,4-Dinitrotoluene	0.00	165	0	N.D.		
25) Diethylphthalate	0.00	149	0	N.D.		
26) 4-Chlorophenyl-phenyl ethe	0.00	204	0	N.D.		
27) Fluorene	0.00	166	0	N.D.		
28) Azobenzen/ 1,2-Diphenylhyd	0.00	77	0	N.D.		
30) N-Nitrosodiphenylamine	0.00	169	0	N.D.		
31) 4-Bromophenyl-phenyl ether	0.00	248	0	N.D.		
32) Hexachlorobenzene	0.00	284	0	N.D.		
33) Phenanthrene	0.00	178	0	N.D.		
34) Anthracene	0.00	178	0	N.D.		
35) Di-n-butylphthalate	24.67	149	7001	0.04	ug/L	79
36) Fluoranthene	0.00	202	0	N.D.		
39) Pyrene	0.00	202	0	N.D.		
40) Butylbenzylphthalate	0.00	149	0	N.D.		
41) Benzo (a) antracene	0.00	228	0	N.D. d		
42) Bis (2-ethylhexyl) phthala	30.94	149	75360	0.68	ug/L	96
43) Chrysene	0.00	228	0	N.D. d		
45) Di-n-Octylphthalate	0.00	149	0	N.D.		
46) Benzo (b) fluoranthene	0.00	252	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Data File : C:\MSDCHEM\1\DATA\022802\03472.D Vial: 21
Acq On : 1 Mar 2002 4:58 am Operator: McLean
Sample : Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: BENZO.P
Quant Time: Mar 13 06:54:52 2002 Quant Results File: 5080202.RES

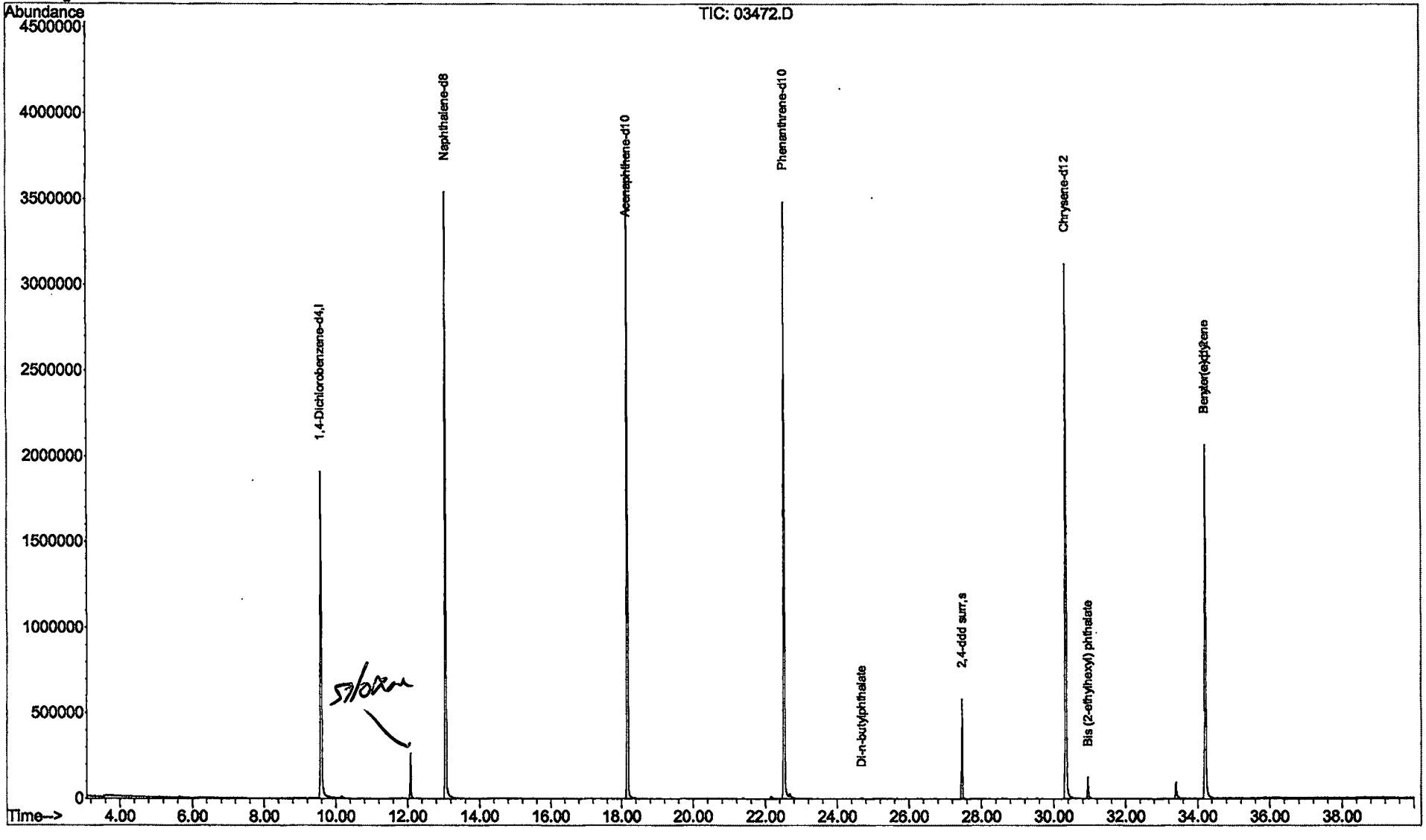
Quant Method : C:\MSDCHEM\1\5973N\5080202.M (RTE Integrator)
Title : Quantitation For Method 508gcscan
Last Update : Mon Feb 25 19:17:14 2002
Response via : Initial Calibration
DataAcq Meth : 508SCAN

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
47) Benzo (k) fluoranthene	0.00	252	0	N.D.	
48) Benzo (a) pyrene	34.20	252	6211	0.05 ug/L	40
49) Indeno (1,2,3-cd) pyrene	0.00	276	0	N.D.	
50) Dibenz (a,h) anthracene	0.00	278	0	N.D.	
51) Benzo (g,h,i) perylene	0.00	276	0	N.D.	

(#) = qualifier out of range (m) = manual integration
03472.D 5080202.M Wed Mar 13 06:55:47 2002 Page 2

Data File : C:\MSDCHEM\1\DATA\022802\03472.D Vial: 21
Acq On : 1 Mar 2002 4:58 am Operator: McLean
Sample : Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: BENZO.P
Quant Time: Mar 13 6:55 2002 Quant Results File: 5080202.RES

Method : C:\MSDCHEM\1\5973N\5080202.M (RTE Integrator)
Title : Quantitation For Method 508gcscan
Last Update : Mon Feb 25 19:17:14 2002
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\022802\03472.D Vial: 21
Acq On : 1 Mar 2002 4:58 am Operator: McLean
Sample : Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\5973N\5080202.M (RTE Integrator)
Title : Quantitation For Method 508gcscan
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

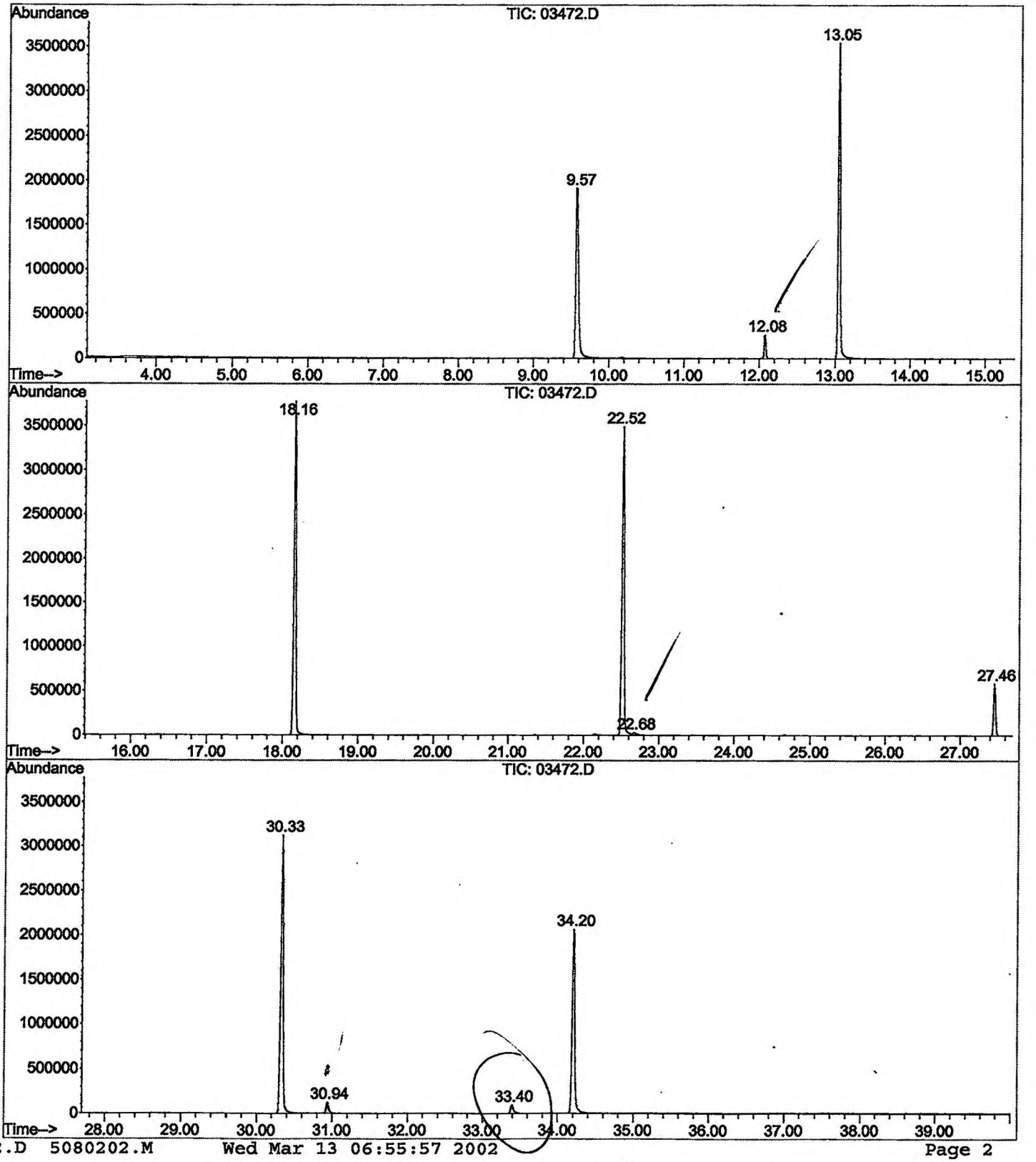
Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	9.570	712	716	739	rBV	1907560	4905865	67.51%	12.252%
2	12.083	988	993	999	rVB	262259	446412	6.14%	1.115%
3	13.053	1094	1100	1114	rBV	3542274	6628757	91.22%	16.554%
4	18.160	1657	1663	1676	rBV	3774435	7141768	98.28%	17.835%
5	22.522	2138	2144	2157	rBV2	3488266	7266534	100.00%	18.147%
6	22.677	2157	2161	2170	rVB2	24130	74789	1.03%	0.187%
7	27.457	2683	2688	2696	rBV	582633	1058404	14.57%	2.643%
8	30.332	2998	3005	3019	rBV2	3122929	7033135	96.79%	17.564%
9	30.940	3067	3072	3081	rBV	121520	258341	3.56%	0.645%
10	33.398	3338	3343	3355	rBV	94602	247397	3.40%	0.618%
11	34.205	3425	3432	3445	rBV2	2063039	4981347	68.55%	12.440%

Sum of corrected areas: 40042749

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM\1\DATA\022802\03472.D
Operator : McLean
Acquired : 1 Mar 2002 4:58 am using AcqMethod 508SCAN
Instrument : Instrumen
Sample Name:
Misc Info :
Vial Number: 21
Quant File :5080202.RES (RTE Integrator)



Data File : C:\MSDCHEM\1\DATA\022802\03472.D Vial: 21
Acq On : 1 Mar 2002 4:58 am Operator: McLean
Sample : Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

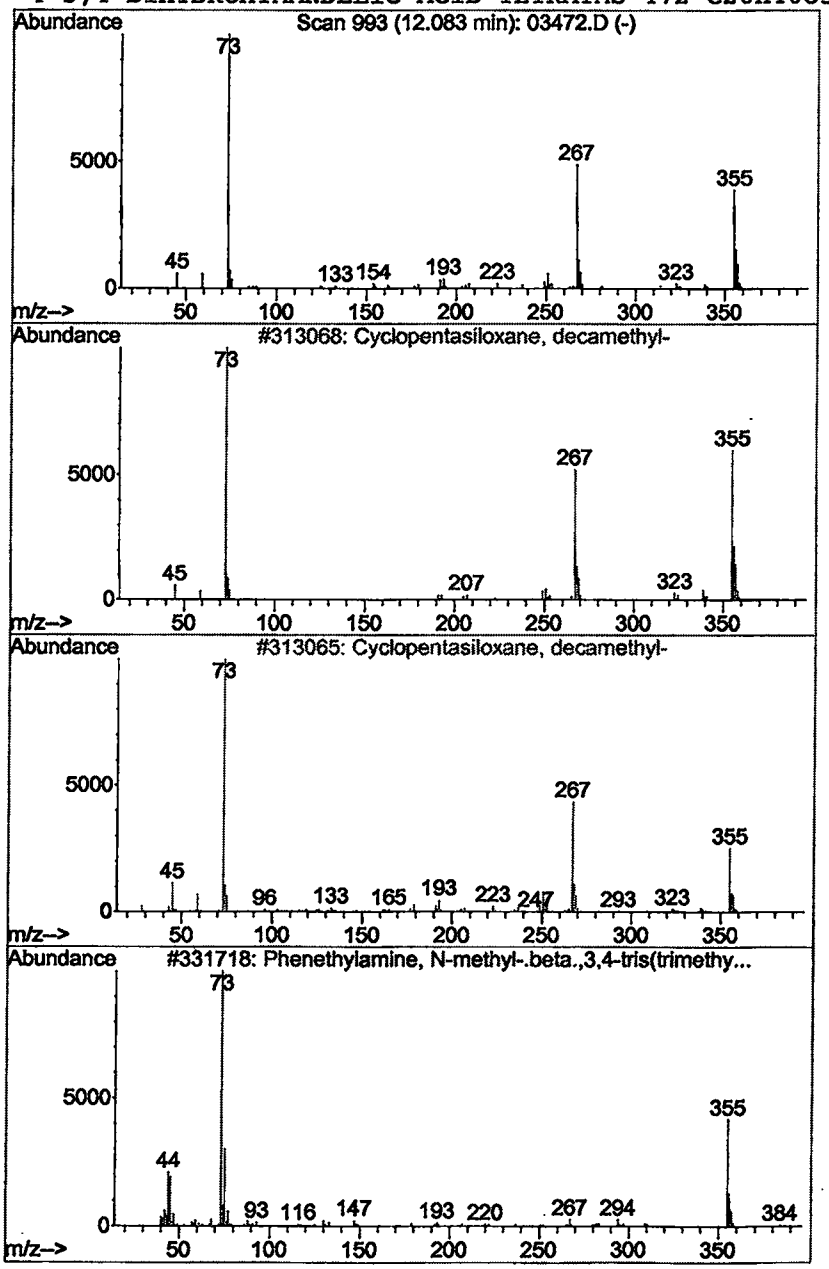
Quant Method : C:\MSDCHEM\1\5973N\5080202.M (RTE Integrator)
Title : Quantitation For Method 508gcscan
Library : C:\DATABASE\WILEY7N.L

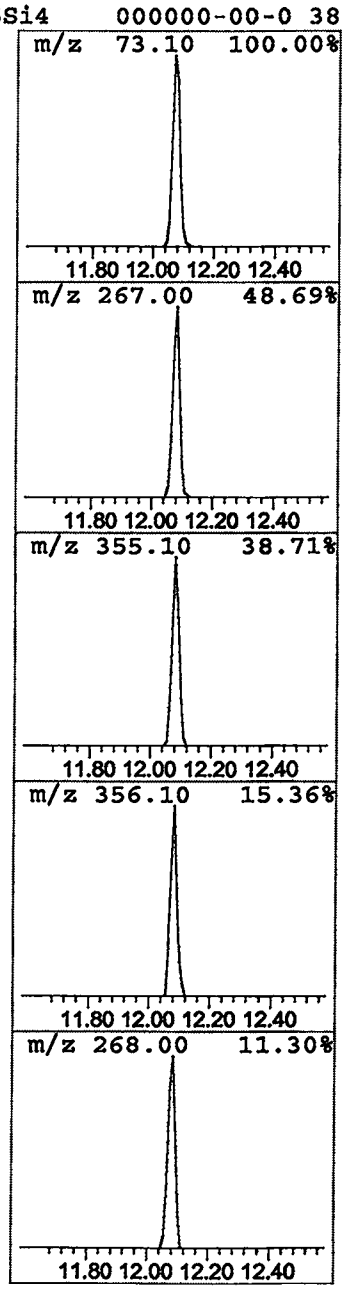
****

Peak Number 1 Cyclopentasiloxane, decamet... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.08	1.35 ug/L	446412	Naphthalene-d8	13.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentasiloxane, decamethyl-	370	C10H30O5Si5	000541-02-6	86
2	Cyclopentasiloxane, decamethyl-	370	C10H30O5Si5	000541-02-6	74
3	Phenethylamine, N-methyl-.beta.,...	399	C18H37NO3Si3	010538-85-9	47
4	3,4-DIHYDROXYMANDELIC ACID-TETRATMS	472	C20H40O5Si4	000000-00-0	38





Data File : C:\MSDCHEM\1\DATA\022802\03472.D Vial: 21
Acq On : 1 Mar 2002 4:58 am Operator: McLean
Sample : Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

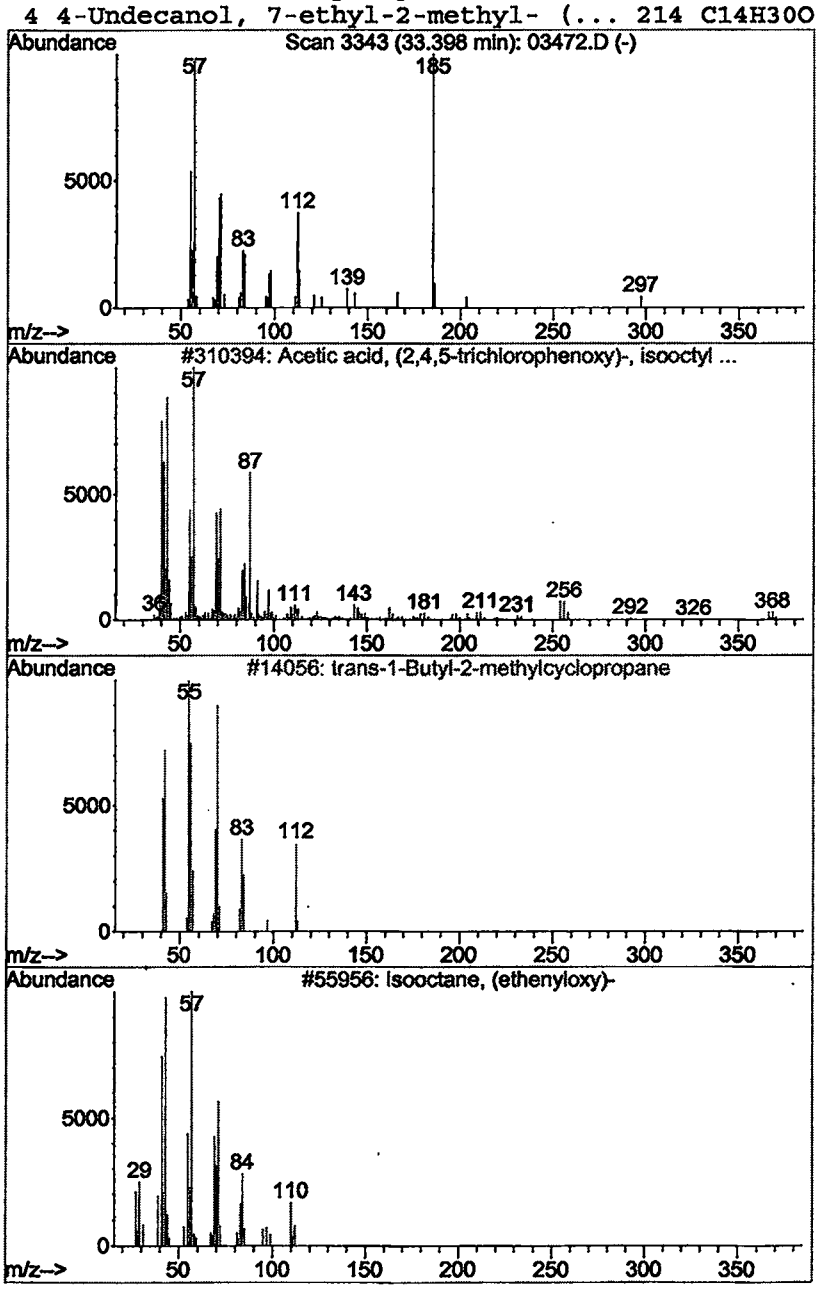
Quant Method : C:\MSDCHEM\1\5973N\5080202.M (RTE Integrator)
Title : Quantitation For Method 508gcscan
Library : C:\DATABASE\WILEY7N.L

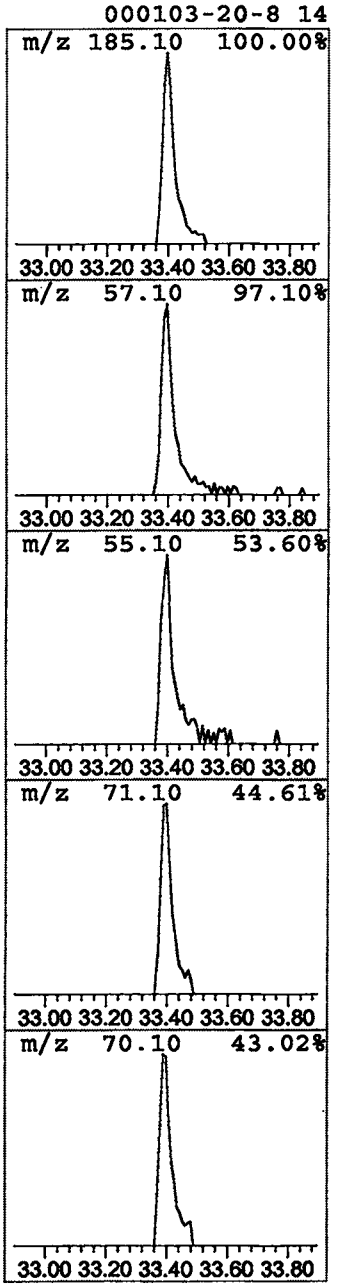
****

Peak Number 2 Acetic acid, (2,4,5-trichlo... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
33.40	0.99 ug/L	247397	Perylene-d12	34.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetic acid, (2,4,5-trichlorophe...	366	C16H21Cl3O3	025168-15-4	22
2	trans-1-Butyl-2-methylcyclopropane	112	C8H16	038851-70-6	22
3	Isooctane, (ethenyloxy)-	156	C10H20O	037769-62-3	22
4	4-Undecanol, 7-ethyl-2-methyl- (...	214	C14H30O	000103-20-8	14





Operator ID: McLean Date Acquired: 1 Mar 2002 4:58 am
Data File: C:\MSDCHEM\1\DATA\022802\03472.D
Name:
Misc:
Method: C:\MSDCHEM\1\5973N\5080202.M (RTE Integrator)
Title: Quantitation For Method 508gcscan
Library Searched: C:\DATABASE\WILEY7N.L

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Cyclopentasiloxan...	12.08	1.3	ug/L	446412	2	13.05	6628760	20.0
Acetic acid, (2,4...	33.40	1.0	ug/L	247397	6	34.20	4981350	20.0