User: Vinci, David L
Westchester Dept. of Labs & Research
Date: 05/28/2002 Time: 15:21:43

Sample: AE11415
Analysis: $GCMS GCMS Scan For Unknowns
Units: ug
Started: 5/28/02 15:21 Ended: 5/28/02 15:21 Analyst: DLV
Page: 1

	Component Name	Viol	Result	Qualifier	MDL
1	Other unknown compounds		.		
2	Surr_2,4-DDD		84		10.0

Comments for Sample AE11415 - Analysis $GCMS

Westchester Dept. of Labs & Research
User: Vinci, David L
Date: 05-28-2002 Time: 15:22:07

The GCMS scan, from 35 to 550 amu, does not reveal the presence of unusual compounds. The recoveries for 3 of the 43 compounds in the LCS Standard were low.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\051702\11415.D Vial: 24
Acq On : 18 May 2002 8:21 am Operator: Mclean
Sample : 5/15 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: May 20 09:52:37 2002 Quant Results File: 050102.RES

Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Last Update : Mon May 13 11:40:29 2002
Response via : Initial Calibration
DataAcq Meth : 508SCAN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.93	152	4733513	40.00	ug/L	0.00
10) Napthalene-d8	13.43	136	18726494	40.00	ug/L	0.00
17) Acenapthalene-d10	18.57	164	10067456	40.00	ug/L	0.00
29) Phenanthranene-d10	22.95	188	14497650	40.00	ug/L	0.00
37) Chrysene-d12	30.80	240	10414608	40.00	ug/L	0.00
43) Perylene-d12	34.70	264	6309264	40.00	ug/L	0.00
System Monitoring Compounds						
27) TCMX	20.54	209	2060760	33.72	ug/L	0.00
Spiked Amount 40.000			Recovery = 84.30%			
Target Compounds						Qvalue
2) n-nitros-dimethyl amine	0.00	74	0	N.D.		
3) bis(2-Chloroethyl)ether	0.00	93	0	N.D.		
4) 1,3-Dichlorobenzene	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-Chloropropane	0.00	45	0	N.D.		
8) N-nitroso-di-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	12.94	93	1800	N.D.		
14) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
15) Napthalene	13.48	128	20008	N.D.		
16) Hexachlorobutadiene	0.00	225	0	N.D.		
18) 2-Chloronaphthalene	0.00	162	0	N.D.		
19) Dimethylphthalate	0.00	163	0	N.D.		
20) 2,6-Dinitrotoluene	0.00	165	0	N.D.		
21) Acenapthylene	0.00	152	0	N.D.		
22) Acenapthalene	0.00	153	0	N.D.		
23) 2,4-Dinitrotoluene	0.00	165	0	N.D.		
24) Diethylphthalate	0.00	149	0	N.D.		
25) 4-Chlorophenyl-phenylether	0.00	204	0	N.D.		
26) Fluorene	0.00	166	0	N.D.		
28) Azobenzene	20.54	77	33054	N.D.		
30) Nnitrosodiphenylamine	20.54	169	39548	N.D.		
31) 4-Bromophenyl-phenylether	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	0.00	149	0	N.D.		

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

Quantitation Report (QT Reviewed)

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Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Last Update : Mon May 13 11:40:29 2002
Response via : Initial Calibration
DataAcq Meth : 508SCAN

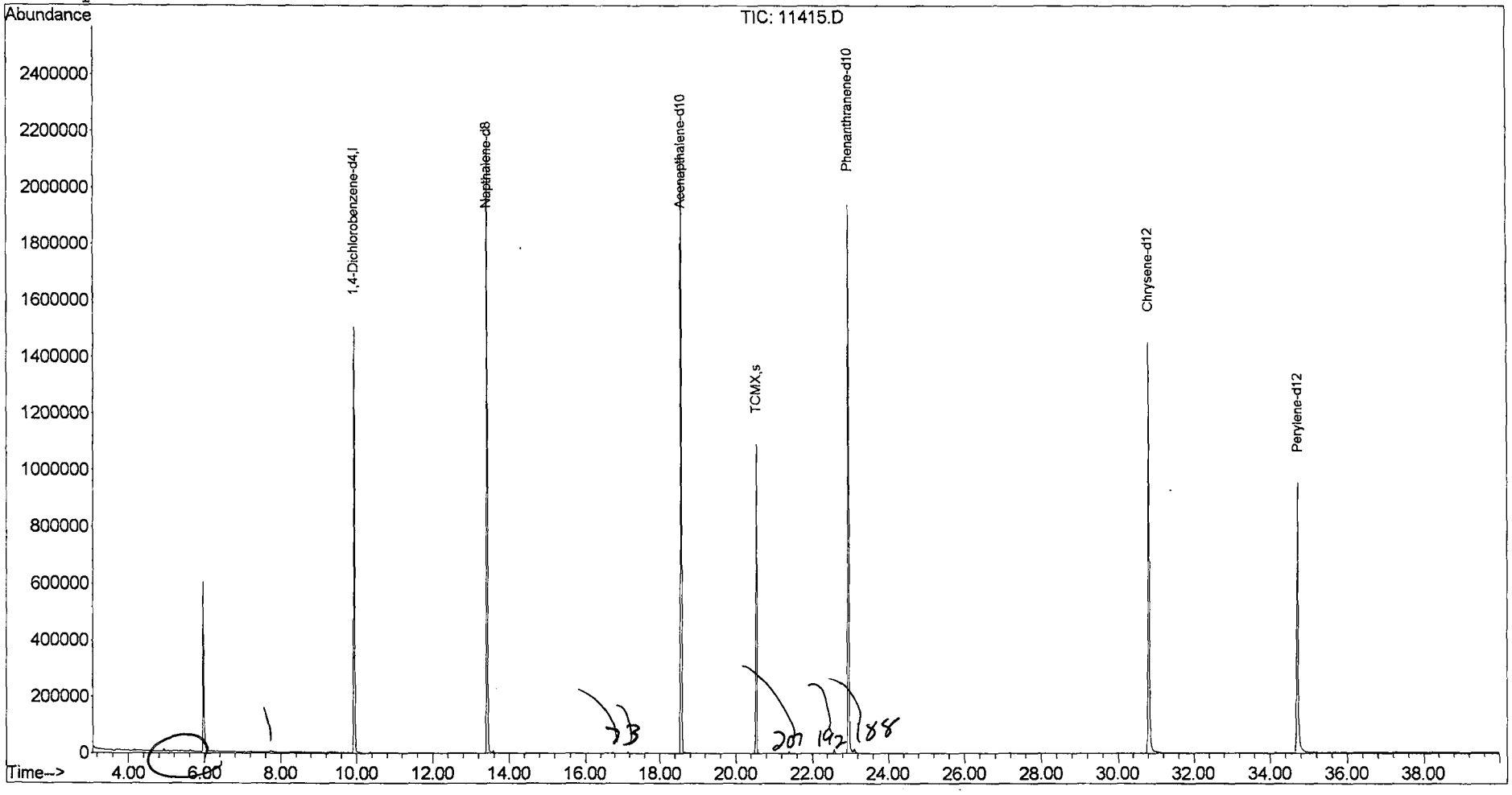
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36)	Fluoroanthene	0.00	202	0	N.D.	
38)	Pyrene	0.00	202	0	N.D.	
39)	Butylbenzylphthalate	0.00	149	0	N.D.	
40)	Benzo(a)anthracene	30.80	228	26575	N.D.	
41)	Bis(2-ethylhexyl)phthalate	0.00	149	0	N.D.	
42)	Chrysene	0.00	228	0	N.D.	
44)	Di-n-octylphthalate	0.00	149	0	N.D.	
45)	Benzo(b)fluoranthene	0.00	252	0	N.D.	
46)	Benzo(k)fluoranthene	0.00	252	0	N.D.	
47)	Benzo(a)pyrene	0.00	252	0	N.D.	
48)	Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D.	
49)	Dibenz(a,h)anthracene	0.00	278	0	N.D.	
50)	Benzo(g,h,i)perylene	0.00	276	0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\051702\11415.D Vial: 24
Acq On : 18 May 2002 8:21 am Operator: Mclean
Sample : 5/15 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: May 20 9:52 2002 Quant Results File: 050102.RES

Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Last Update : Mon May 13 11:40:29 2002
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\051702\11415.D
Acq On : 18 May 2002 8:21 am
Sample : 5/15 eh
Misc :
MS Integration Params: LSCINT.e

Vial: 24
Operator: Mclean
Inst : Instrumen
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan

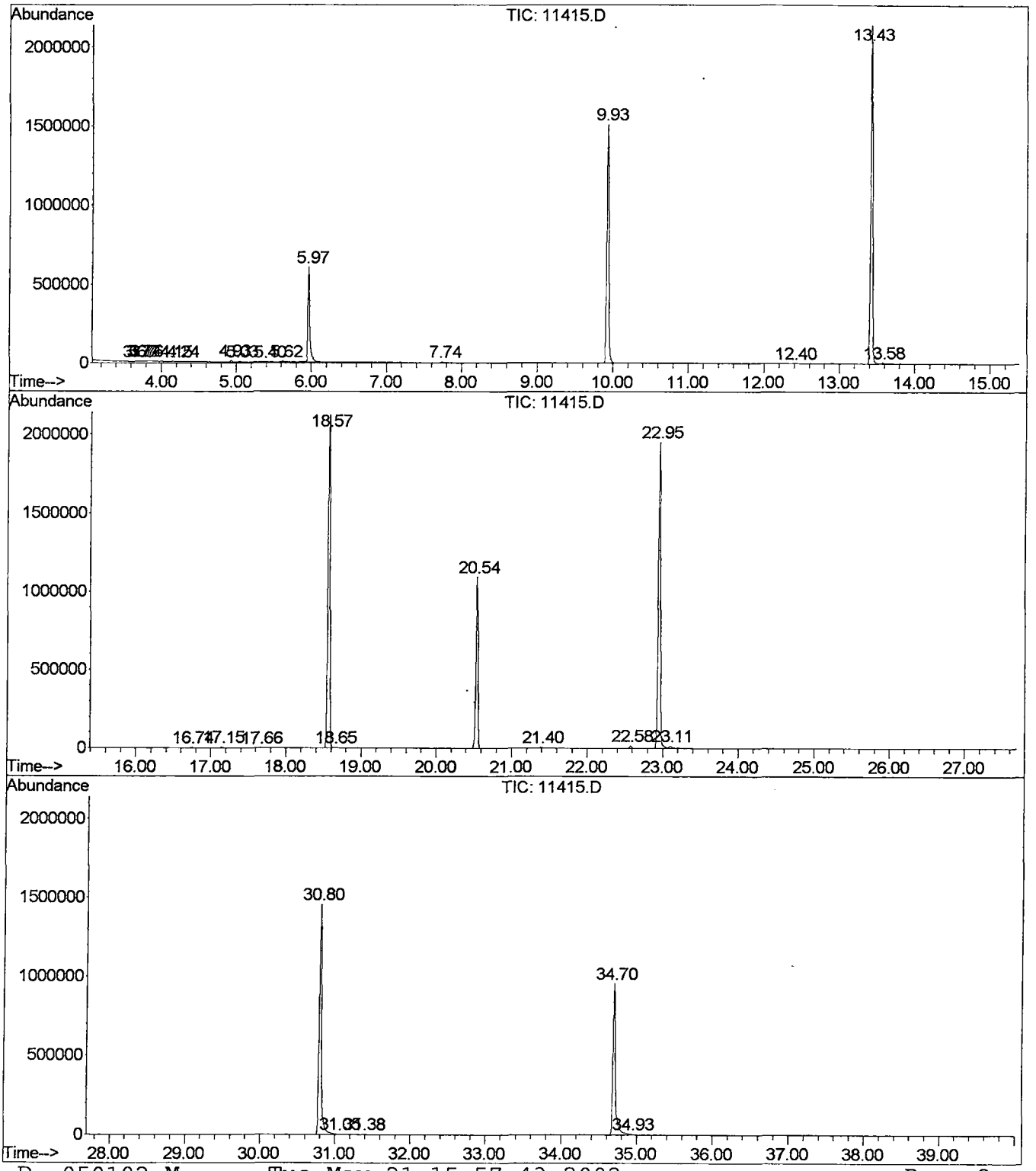
Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.667	94	100	103	PV 6	2025	38811	0.09%	0.016%
2	3.714	103	108	110	VV 4	3128	58318	0.14%	0.025%
3	3.737	110	112	114	VV 2	3262	35171	0.09%	0.015%
4	3.761	114	116	123	VV 5	2978	83832	0.20%	0.036%
5	4.155	178	183	188	VV 5	2585	57317	0.14%	0.024%
6	4.243	194	198	203	VV 6	2699	50212	0.12%	0.021%
7	4.936	309	316	325	VV 4	9629	170606	0.41%	0.072%
8	5.030	328	332	350	VV 10	3931	124567	0.30%	0.053%
9	5.406	392	396	405	VV 7	2594	68781	0.17%	0.029%
10	5.623	427	433	445	VV 5	5744	153107	0.37%	0.065%
11	5.964	483	491	521	PV	588687	10695744	25.97%	4.536%
12	7.739	789	793	808	PV 4	5375	137932	0.33%	0.059%
13	9.936	1157	1167	1192	PV	1485079	28349443	68.82%	12.024%
14	12.404	1581	1587	1596	PV	1805	36116	0.09%	0.015%
15	13.426	1745	1761	1782	PV	2102605	38246026	92.85%	16.221%
16	13.579	1782	1787	1793	VV 3	6685	118865	0.29%	0.050%
17	16.740	2318	2325	2339	PV 2	2757	48407	0.12%	0.021%
18	17.151	2390	2395	2400	VV 2	5838	79473	0.19%	0.034%
19	17.662	2475	2482	2487	BV 3	2326	38655	0.09%	0.016%
20	18.567	2625	2636	2647	PV	2145829	41192300	100.00%	17.471%
21	18.644	2647	2649	2667	VV 6	3170	84438	0.20%	0.036%
22	20.541	2960	2972	2991	VV	1078140	20330048	49.35%	8.623%
23	21.393	3110	3117	3124	VV 2	6798	112062	0.27%	0.048%
24	22.580	3308	3319	3330	BV 3	14749	253598	0.62%	0.108%
25	22.951	3361	3382	3402	PV 2	1920622	39490617	95.87%	16.749%
26	23.109	3402	3409	3422	VV	14745	377457	0.92%	0.160%
27	30.806	4707	4719	4758	PV 2	1432284	32192519	78.15%	13.654%
28	31.047	4758	4760	4768	VV 4	2825	80428	0.20%	0.034%
29	31.376	4811	4816	4828	PV 6	1947	42640	0.10%	0.018%
30	34.702	5361	5382	5420	PV	942263	22975716	55.78%	9.745%
31	34.937	5420	5422	5431	VV 8	2378	55033	0.13%	0.023%

Sum of corrected areas: 235778241

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM\1\DATA\051702\11415.D
Operator : Mclean
Acquired : 18 May 2002 8:21 am using AcqMethod 508SCAN
Instrument : Instrumen
Sample Name: 5/15 eh
Misc Info :
Vial Number: 24
Quant File :050102.RES (Chemstation Integrator)



Data File : C:\MSDCHEM\1\DATA\051702\11415.D Vial: 24
Acq On : 18 May 2002 8:21 am Operator: Mclean
Sample : 5/15 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

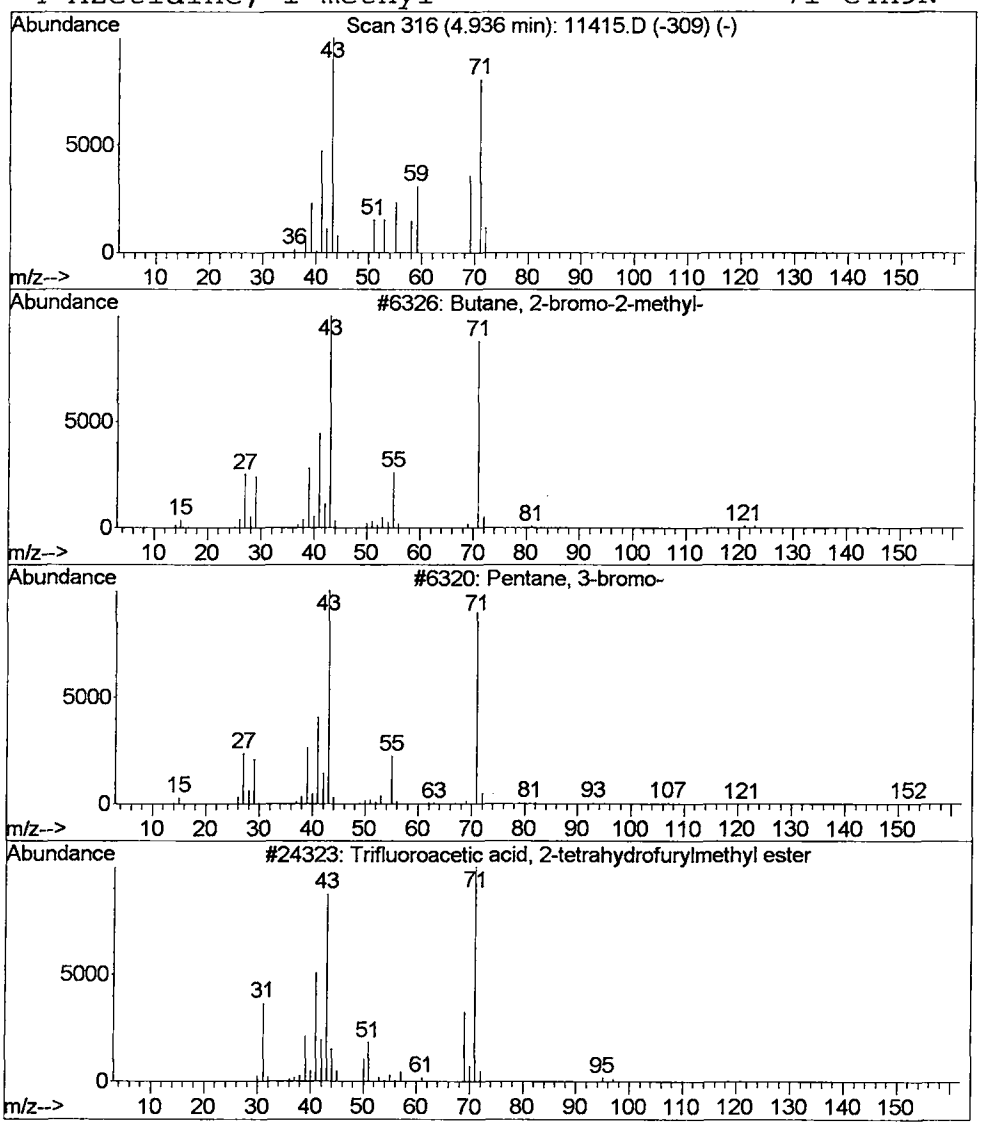
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

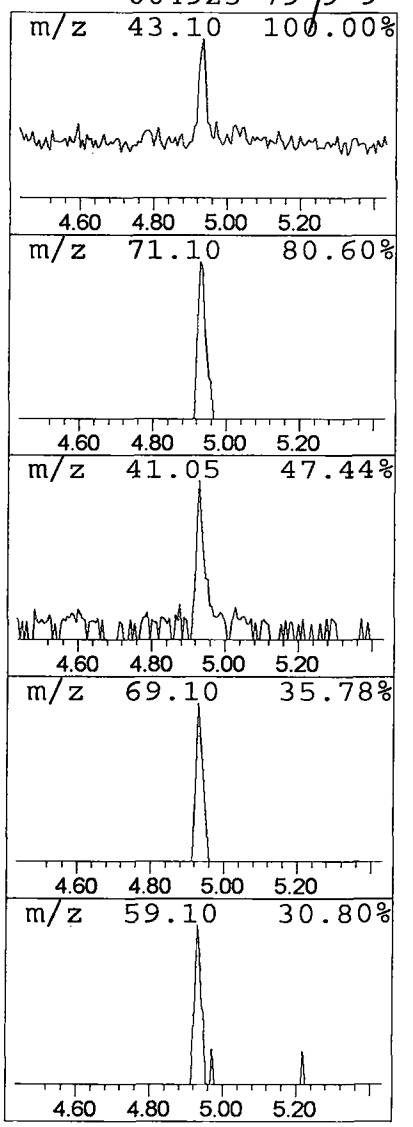
****

Peak Number 1 Butane, 2-bromo-2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.93	0.24 ug/L	170606	1,4-Dichlorobenzene-d4	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-bromo-2-methyl-	150	C5H11Br	000507-36-8	42
2	Pentane, 3-bromo-	150	C5H11Br	001809-10-5	33
3	Trifluoroacetic acid, 2-tetrahyd...	198	C7H9F3O3	1000216-78-4	33
4	Azetidine, 1-methyl-	71	C4H9N	004923-79-9	9





Data File : C:\MSDCHEM\1\DATA\051702\11415.D Vial: 24
Acq On : 18 May 2002 8:21 am Operator: Mclean
Sample : 5/15 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

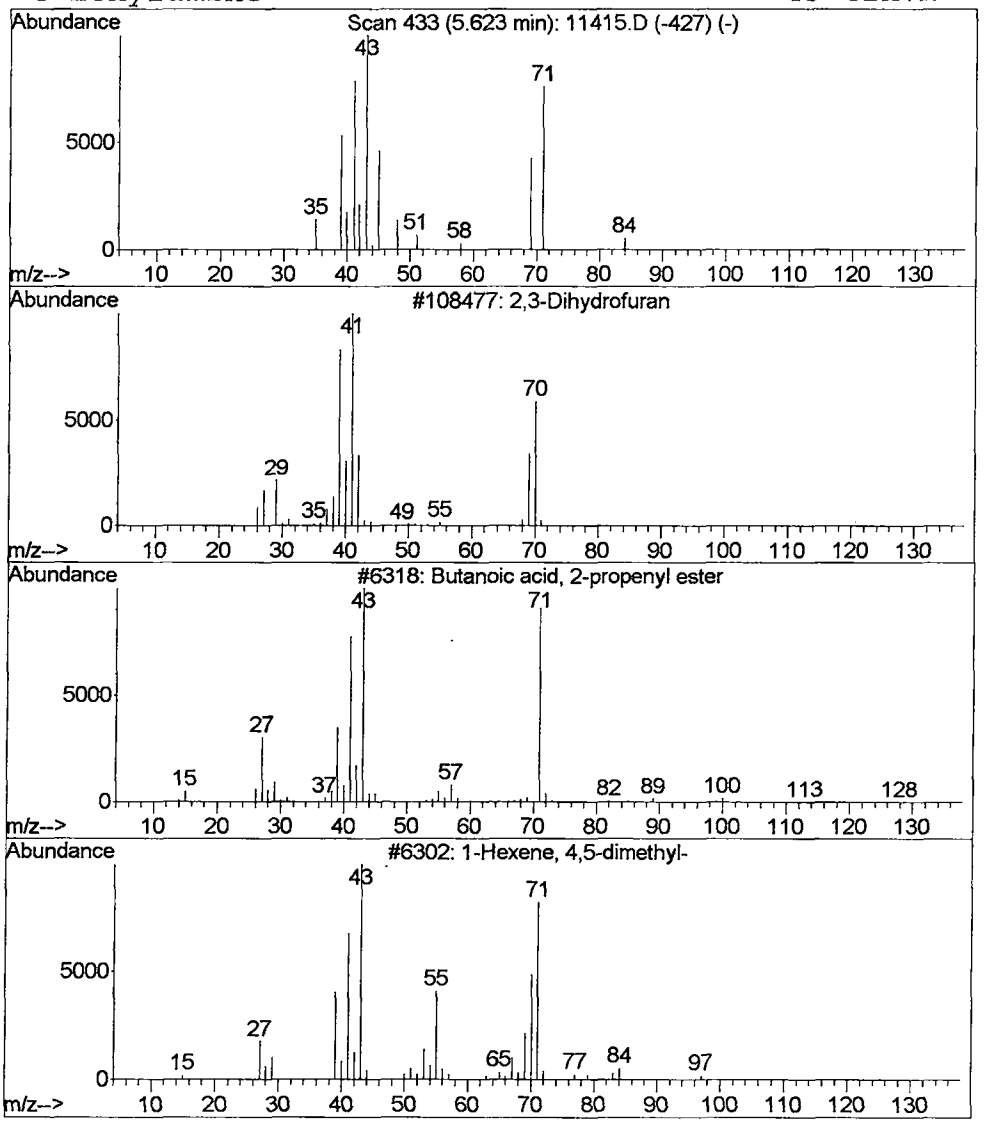
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

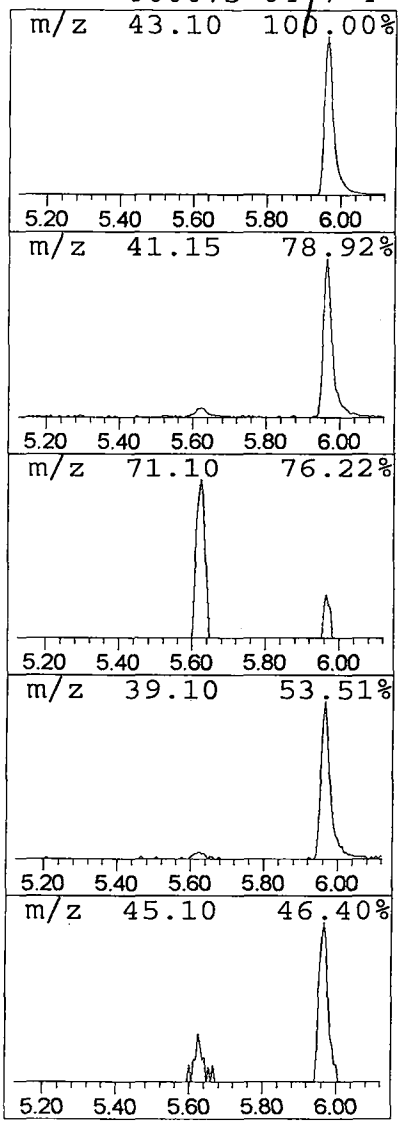
****

Peak Number 2 2,3-Dihydrofuran Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.62	0.22 ug/L	153107	1,4-Dichlorobenzene-d4	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,3-Dihydrofuran	70	C4H6O	001191-99-7	9
2	Butanoic acid, 2-propenyl ester	128	C7H12O2	002051-78-7	9
3	1-Hexene, 4,5-dimethyl-	112	C8H16	016106-59-5	9
4	Ethylamine	45	C2H7N	000075-04-7	4





Data File : C:\MSDCHEM\1\DATA\051702\11415.D Vial: 24
Acq On : 18 May 2002 8:21 am Operator: Mclean
Sample : 5/15 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

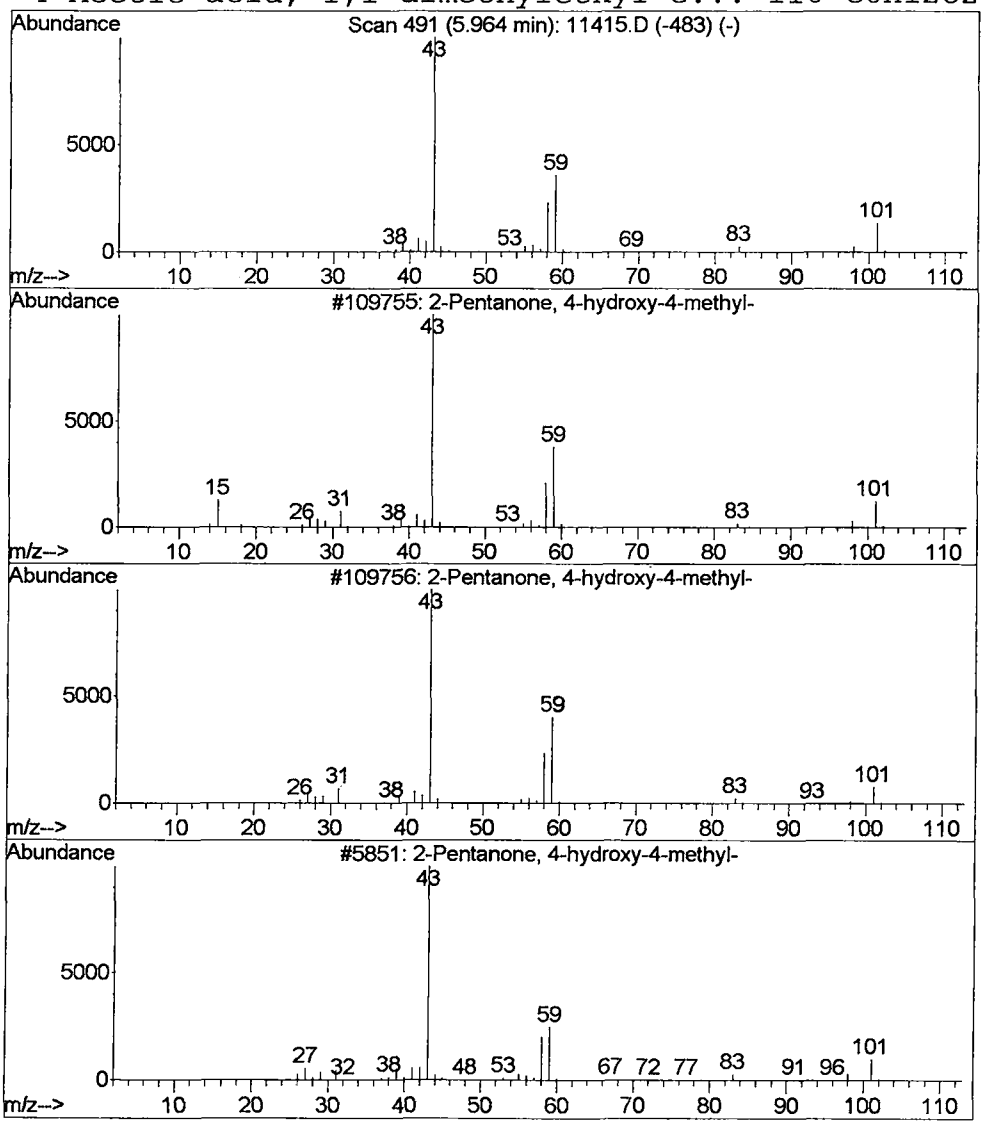
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

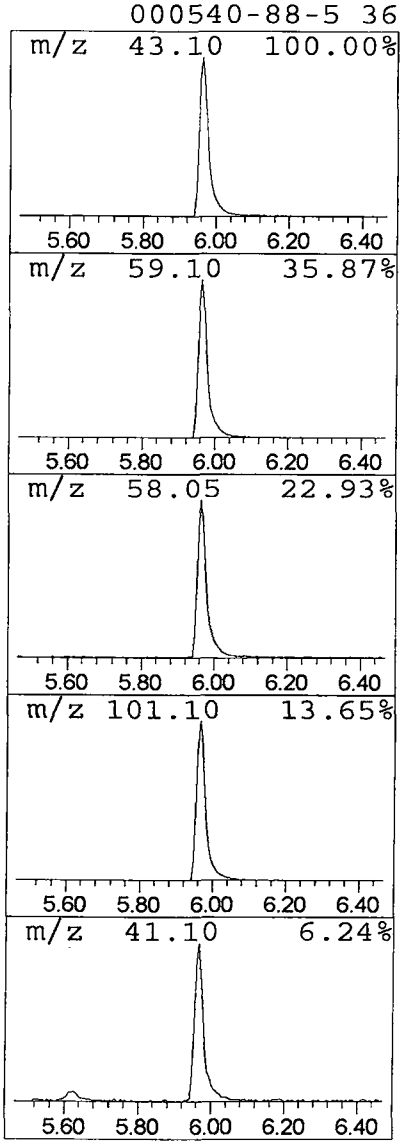
****

Peak Number 3 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.97	15.09 ug/L	10695700	1,4-Dichlorobenzene-d4	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	90
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	72
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
4	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	36





Data File : C:\MSDCHEM\1\DATA\051702\11415.D Vial: 24
Acq On : 18 May 2002 8:21 am Operator: Mclean
Sample : 5/15 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

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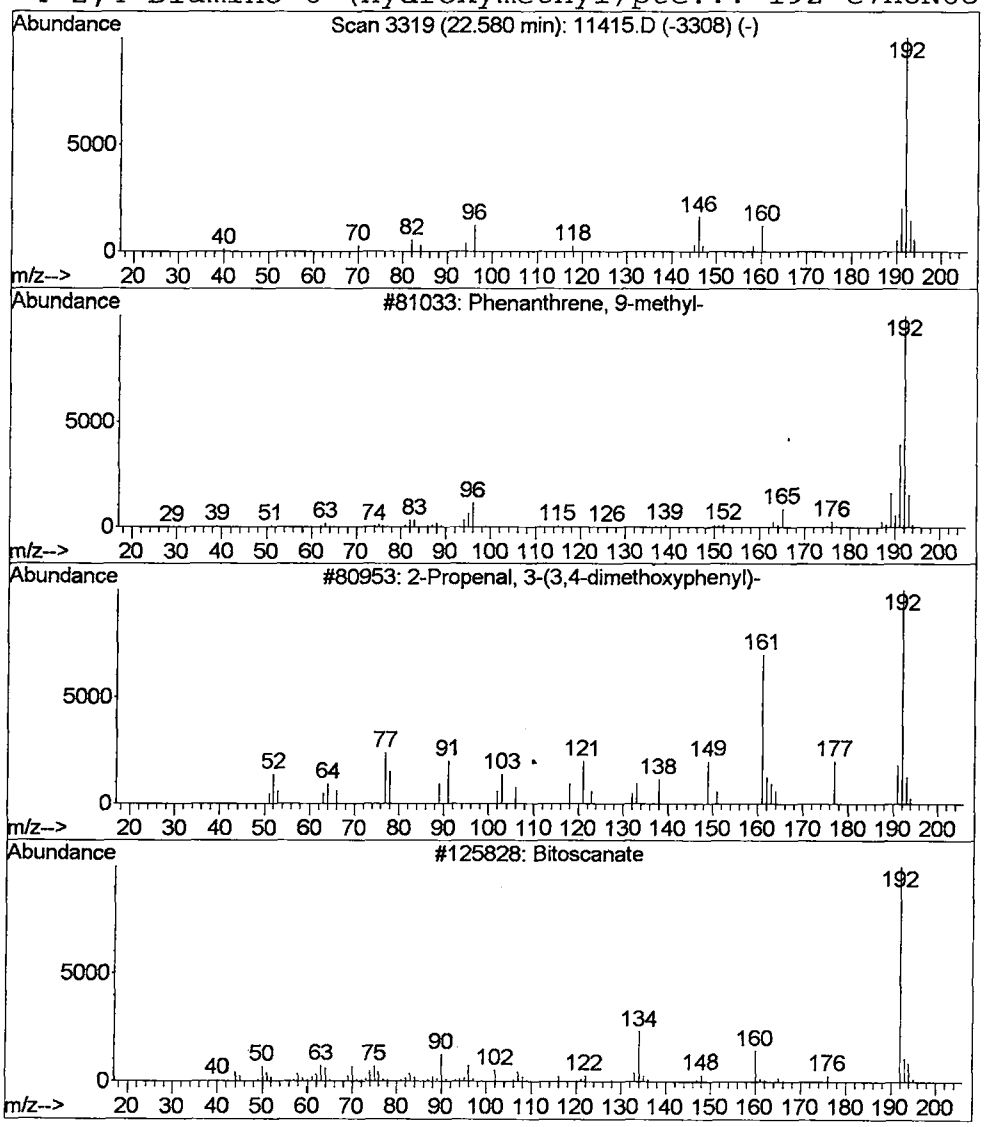
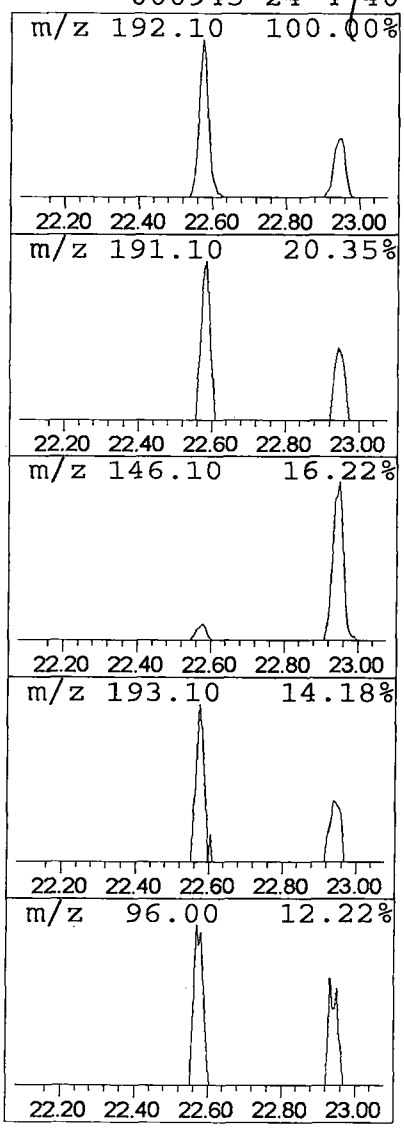
Peak Number 4 Phenanthrene, 9-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.58	0.26 ug/L	253598	Phenanthranene-d10	22.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 9-methyl-	192	C15H12	000883-20-5	53
2	2-Propenal, 3-(3,4-dimethoxyphen...	192	C11H12O3	004497-40-9	42
3	Bitoscanate	192	C8H4N2S2	004044-65-9	40
4	2,4-Diamino-6-(hydroxymethyl)pte...	192	C7H8N6O	000945-24-4	40





Data File : C:\MSDCHEM\1\DATA\051702\11415.D Vial: 24
Acq On : 18 May 2002 8:21 am Operator: Mclean
Sample : 5/15 eh Inst : Instrumen
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.e

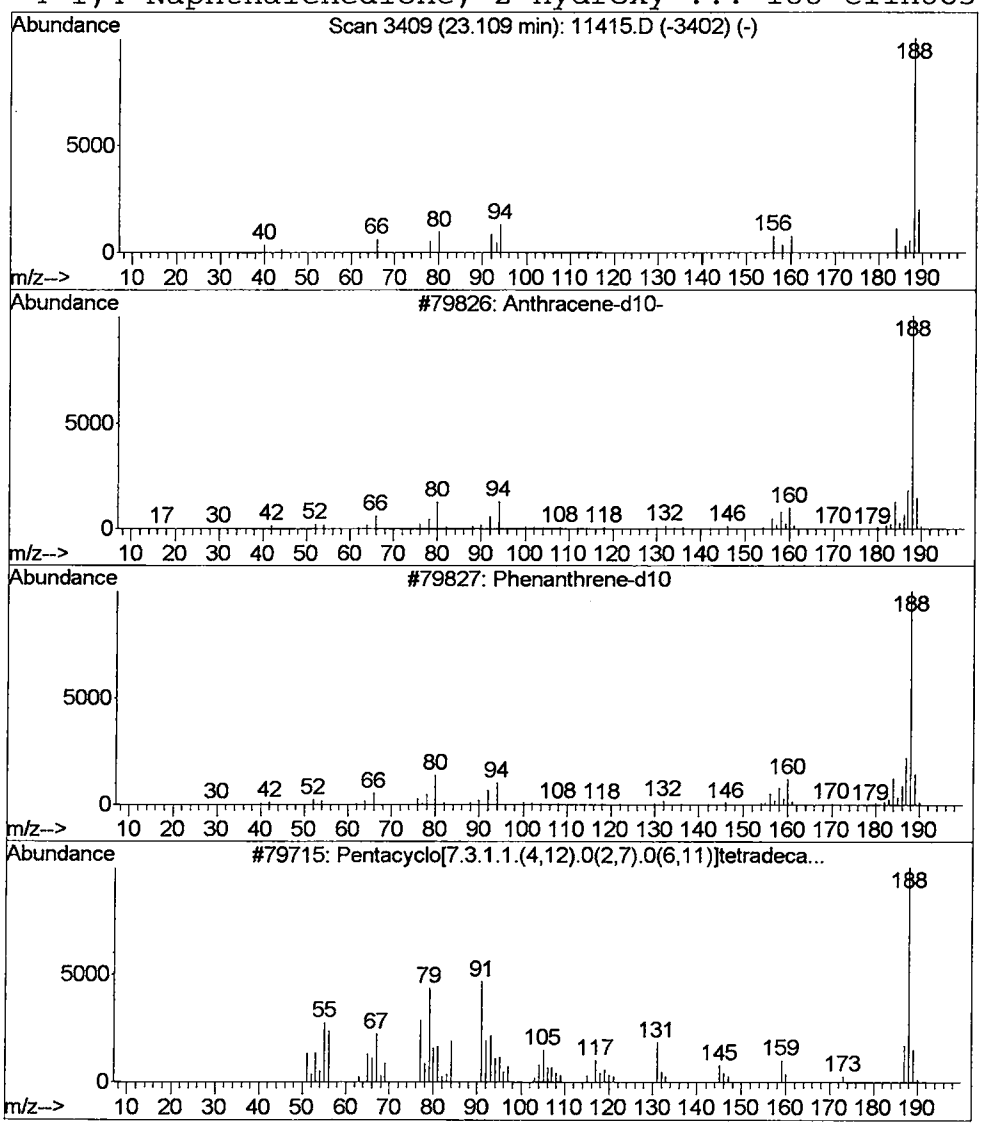
Quant Method : C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title : 508 Modified GC/MS scan
Library : C:\DATABASE\NIST98.L

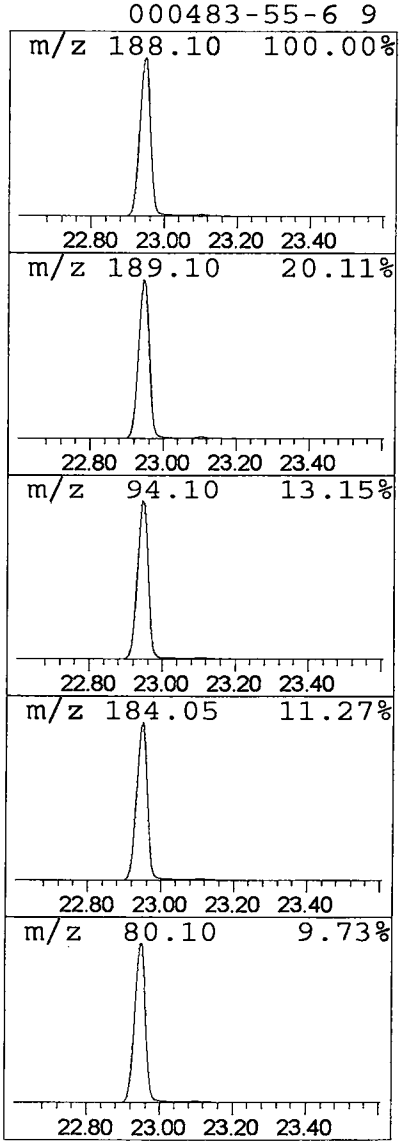
****

Peak Number 5 Anthracene-d10- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.11	0.38 ug/L	377457	Phenanthranene-d10	22.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene-d10-	188	C14D10	001719-06-8	72
2	Phenanthrene-d10	188	C14D10	001517-22-2	72
3	Pentacyclo[7.3.1.1.(4,12).0(2,7)...	188	C14H20	1000215-61-8	38
4	1,4-Naphthalenedione, 2-hydroxy-...	188	C11H8O3	000483-55-6	9





Tentatively Identified Compound (TIC) Summary

Operator ID: Mclean Date Acquired: 18 May 2002 8:21 am
Data File: C:\MSDCHEM\1\DATA\051702\11415.D
Name: 5/15 eh
Misc:
Method: C:\MSDCHEM\1\METHODS\050102.M (Chemstation Integrator)
Title: 508 Modified GC/MS scan
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Butane, 2-bromo-2...	4.93	0.2	ug/L	170606	1	9.93	28349400	40.0
2,3-Dihydrofuran	5.62	0.2	ug/L	153107	1	9.93	28349400	40.0
2-Pentanone, 4-hy...	5.97	15.1	ug/L	10695700	1	9.93	28349400	40.0
Phenanthrene, 9-m...	22.58	0.3	ug/L	253598	4	22.95	39490600	40.0
Anthracene-d10-	23.11	0.4	ug/L	377457	4	22.95	39490600	40.0