Comments for Sample AD28694 - Analysis $GCMS

Westchester Dept. of Labs & Research
User: Vinci, David L
Date: 12-07-2001 Time: 17:51:14

The GCMS scan, from 35 to 550 amu, does not reveal the presence of unusual compounds, except for Di-n-butylphthalate at an estimated level of 0.29 ug/L. The recovery for the Surrogate Standard in this sample was 111%. Recoveries for 9 of the 44 compounds in the LCS Standard were outside of their acceptance ranges. The chromatogram reveals contamination which has been identified to be from the TurboVap concentrator. The pH of this sample when received was less than 2.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\DEC0401\28694.D Vial: 5
Acq On : 4 Dec 2001 4:16 pm Operator: 209 GALOS
Sample : gc/ms 11/24 Inst : GC/MS 209
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 4 17:05 2001 Quant Results File: GCMS1126.RES

Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Last Update : Wed Nov 28 15:06:24 2001
Response via : Initial Calibration
DataAcq Meth : GCMS1126

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	11.72	152	945515	20.00	ug/l	0.02
15) Naphthalene-d8	15.31	136	3527601	20.00	ug/l	0.00
26) Acenaphthene-d10	20.58	164	1725158	20.00	ug/l	0.00
42) Phenanthrene-d10	25.01	188	2462352	20.00	ug/l	0.02
53) Chrysene-d12	33.04	240	1575073	20.00	ug/l	0.00
59) Perylene-d12	37.14	264	1097435	20.00	ug/l	0.02
System Monitoring Compounds						
52) 2,4-DDD	30.08	235	163052	5.56	ug/mL	0.00
Spiked Amount 5.000			Recovery = 111.20%			
Target Compounds						Qvalue
2) Pyridine	0.00	79	0	N.D.		
3) N-nitroso-dimethyl amine	5.23	74	409	N.D.		
4) Phenol	0.00	94	0	N.D.		
5) bis(2-Chloroethyl)ether	0.00	93	0	N.D.		
6) 2-Chlorophenol	0.00	128	0	N.D.		
7) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
8) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
9) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
10) 2-Methylphenol	0.00	108	0	N.D.		
11) 2,2'-oxybis(1-Chloropropan	0.00	45	0	N.D.		
12) 3&4-Methylphenol	0.00	108	0	N.D.		
13) N-Nitroso-di-n-propylamine	0.00	70	0	N.D.		
14) Hexachloroethane	0.00	117	0	N.D.		
16) Nitrobenzene	0.00	77	0	N.D.		
17) Isophorone	0.00	82	0	N.D.		
18) 2-Nitrophenol	0.00	139	0	N.D.		
19) 2,4-Dimethylphenol	0.00	107	0	N.D.		
20) bis(2-Chloroethoxy)methane	0.00	93	0	N.D.		
21) 2,4-Dichlorophenol	0.00	162	0	N.D.		
22) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
23) Naphthalene	15.38	128	779	N.D.		
24) Hexachlorobutadiene	0.00	225	0	N.D.		
25) 4-Chloro-3-methylphenol	0.00	107	0	N.D.		
27) Hexachlorocyclopentadiene	0.00	237	0	N.D.		
28) 2,4,6-Trichlorophenol	0.00	196	0	N.D.		
29) 2,4,5-Trichlorophenol	0.00	196	0	N.D.		
30) 2-Chloronaphthalene	0.00	162	0	N.D.		
31) Dimethylphthalate	0.00	163	0	N.D.		
32) 2,6-Dinitrotoluene	0.00	165	0	N.D.		

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

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Title : 209 625/TCLP calibration table
Last Update : Wed Nov 28 15:06:24 2001
Response via : Initial Calibration
DataAcq Meth : GCMS1126

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
33)	Acenaphthylene	0.00	152	0	N.D.	
34)	Acenaphthene	0.00	153	0	N.D.	
35)	2,4-Dinitrophenol	0.00	184	0	N.D.	
36)	4-Nitrophenol	21.16	65	325	N.D.	
37)	2,4-Dinitrotoluene	20.99	165	302	N.D.	
38)	Diethylphthalate	22.10	149	1210	N.D.	
39)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.	
40)	Fluorene	0.00	166	0	N.D.	
41)	Azobenzen/ 1,2-Diphenylhyd	0.00	77	0	N.D.	
43)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.	
44)	N-Nitrosodiphenylamine	0.00	168	0	N.D.	
45)	4-Bromophenyl-phenylether	0.00	248	0	N.D.	
46)	Hexachlorobenzene	0.00	284	0	N.D.	
47)	Pentachlorophenol	0.00	266	0	N.D.	
48)	Phenanthrene	25.02	178	885	N.D.	
49)	Anthracene	25.02	178	885	N.D.	
50)	Di-n-butylphthalate	27.01	149	50394	0.29 ug/l	97
51)	Fluoranthene	0.00	202	0	N.D.	
54)	Pyrene	0.00	202	0	N.D.	
55)	Butylbenzylphthalate	31.52	149	478	N.D.	
56)	Benzo(a)anthracene	33.04	228	3896	N.D.	
57)	Bis(2-ethylhexyl)phthalate	33.32	149	15124	N.D.	
58)	Chrysene	33.04	228	3896	N.D.	
60)	Di-n-Octylphthalate	35.08	149	176	N.D.	
61)	Benzo(b)fluoranthene	36.09	252	318	N.D.	
62)	Benzo(k)fluoranthene	36.14	252	341	N.D.	
63)	Benzo(a)pyrene	37.14	252	4799	N.D.	
64)	Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D.	
65)	Dibenz(a,h)anthracene	0.00	278	0	N.D.	
66)	Benzo(g,h,i)perylene	0.00	276	0	N.D.	

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

Quantitation Report

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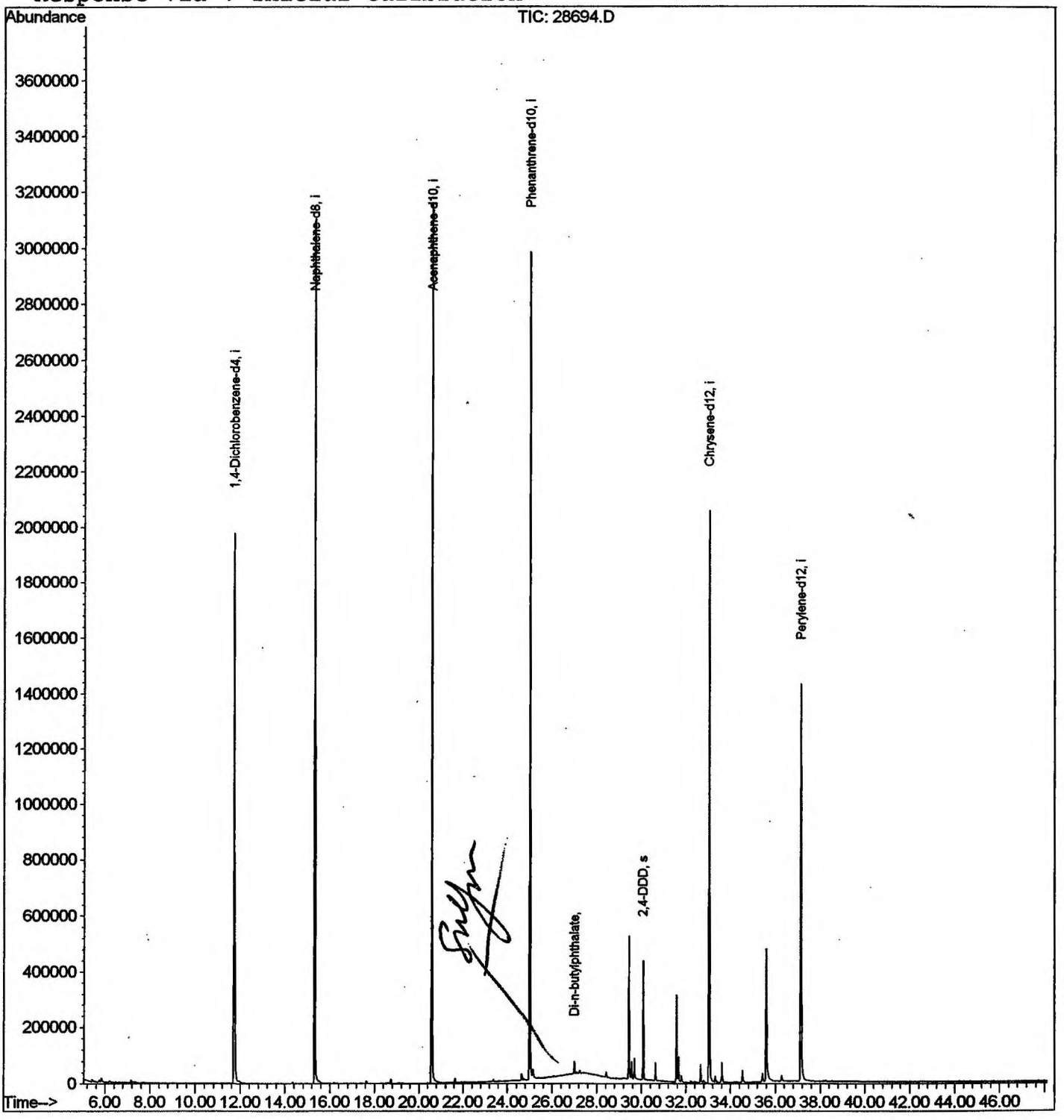
Acq On : 4 Dec 2001 4:16 pm Operator: 209 GALOS
Sample : gc/ms 11/24 Inst : GC/MS 209
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 4 17:05 2001 Quant Results File: GCMS1126.RES

Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Last Update : Wed Nov 28 15:06:24 2001
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\DEC0401\28694.D Vial: 5
Acq On : 4 Dec 2001 4:16 pm Operator: 209 GALOS
Sample : gc/ms 11/24 Inst : GC/MS 209
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
Title : 209 625/TCLP calibration table
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

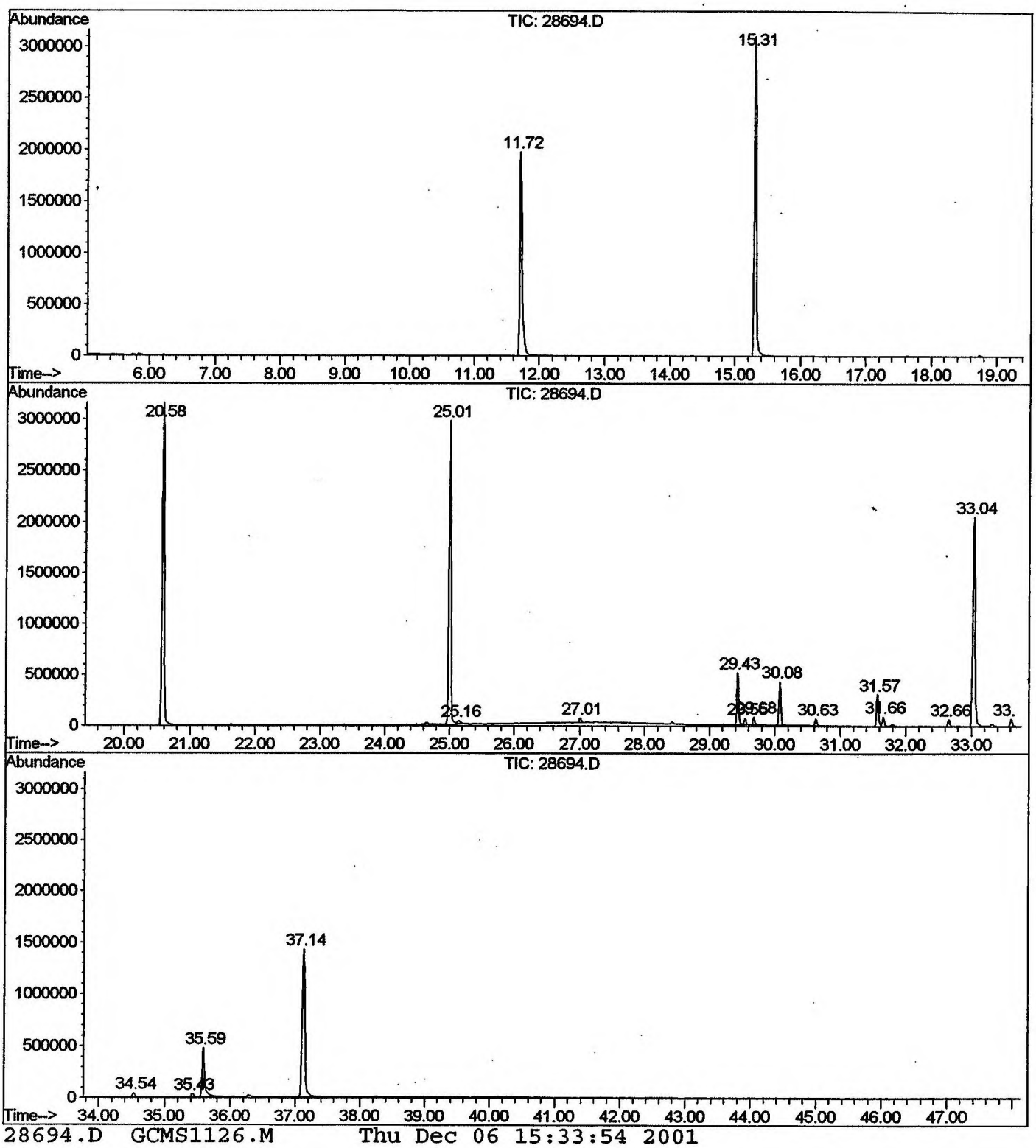
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	11.716	721	727	747	rBV	1978711	5097329	72.92%	12.938%
2	15.314	1113	1119	1137	rBV	3100084	6611498	94.58%	16.781%
3	20.584	1687	1693	1717	rBV	3160365	6990289	100.00%	17.743%
4	25.009	2168	2175	2187	rBV2	2969285	6505927	93.07%	16.513%
5	25.156	2187	2191	2197	rVB	28619	84642	1.21%	0.215%
6	27.010	2390	2393	2398	rBV	43664	83685	1.20%	0.212%
7	29.434	2652	2657	2666	rBV	510029	1020767	14.60%	2.591%
8	29.553	2666	2670	2676	rVV	59774	124756	1.78%	0.317%
9	29.682	2680	2684	2695	rVB	73820	149937	2.14%	0.381%
10	30.076	2722	2727	2733	rBV	422761	873084	12.49%	2.216%
11	30.627	2782	2787	2796	rBV	64595	128225	1.83%	0.325%
12	31.573	2884	2890	2896	rBV2	309161	641444	9.18%	1.628%
13	31.665	2896	2900	2910	rVV	90429	206357	2.95%	0.524%
14	32.656	3003	3008	3015	rBV	66162	144607	2.07%	0.367%
15	33.042	3043	3050	3063	rBV2	2054867	4939452	70.66%	12.537%
16	33.611	3105	3112	3120	rBV	71221	173378	2.48%	0.440%
17	34.538	3207	3213	3220	rBV2	42271	106550	1.52%	0.270%
18	35.428	3305	3310	3320	rBV	31135	82976	1.19%	0.211%
19	35.594	3322	3328	3349	rBV	474335	1341919	19.20%	3.406%
20	37.136	3487	3496	3514	rBV2	1422913	4091152	58.53%	10.384%

Sum of corrected areas: 39397974

28694.D GCMS1126.M Thu Dec 06 15:33:51 2001

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\DEC0401\28694.D
Operator : 209 GALOS
Acquired : 4 Dec 2001 4:16 pm using AcqMethod GCMS1126
Instrument : GC/MS 209
Sample Name: gc/ms 11/24
Misc Info :
Vial Number: 5
Quant File :GCMS1126.RES (RTE Integrator)



28694.D GCMS1126.M Thu Dec 06 15:33:54 2001

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\DEC0401\28694.D
Acq On : 4 Dec 2001 4:16 pm
Sample : gc/ms 11/24
Misc :
MS Integration Params: LSCINT.P

Vial: 5
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

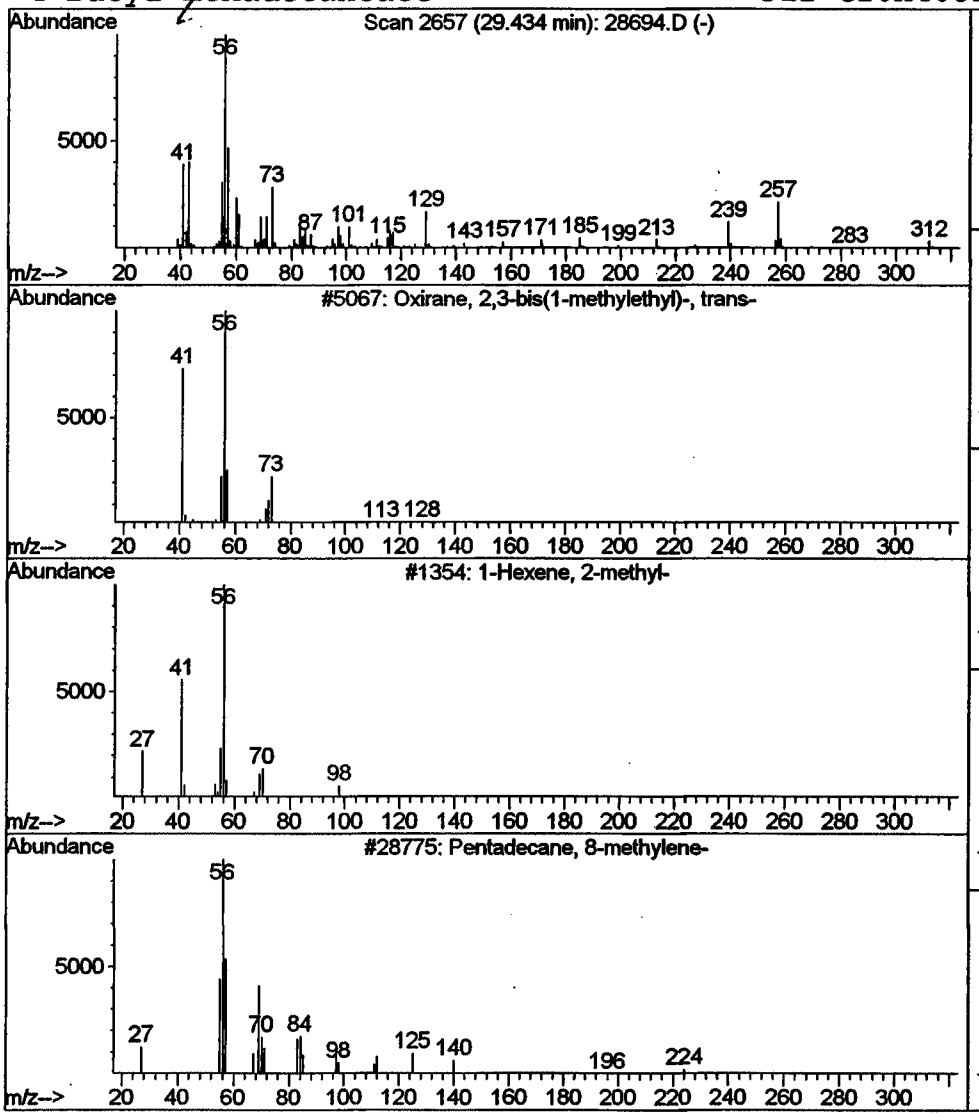
Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Library : C:\DATABASE\NBS75K.L

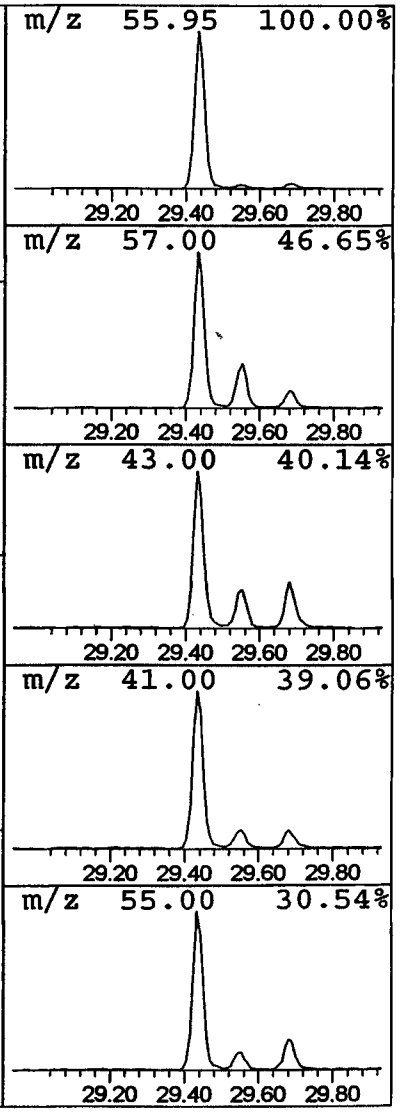
****

Peak Number 1 Oxirane, 2,3-bis(1-methylethyl Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
29.43	4.13 ug/l	1020770	Chrysene-d12	33.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, 2,3-bis(1-methylethyl)-, t	128	C8H16O	054644-32-5	32
2	1-Hexene, 2-methyl-	98	C7H14	006094-02-6	27
3	Pentadecane, 8-methylene-	224	C16H32	055668-09-2	25
4	Butyl hexadecanoate	312	C20H40O2	000000-00-0	25





Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\DEC0401\28694.D
Acq On : 4 Dec 2001 4:16 pm
Sample : gc/ms 11/24
Misc :
MS Integration Params: LSCINT.P

Vial: 5
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
Title : 209 625/TCLP calibration table
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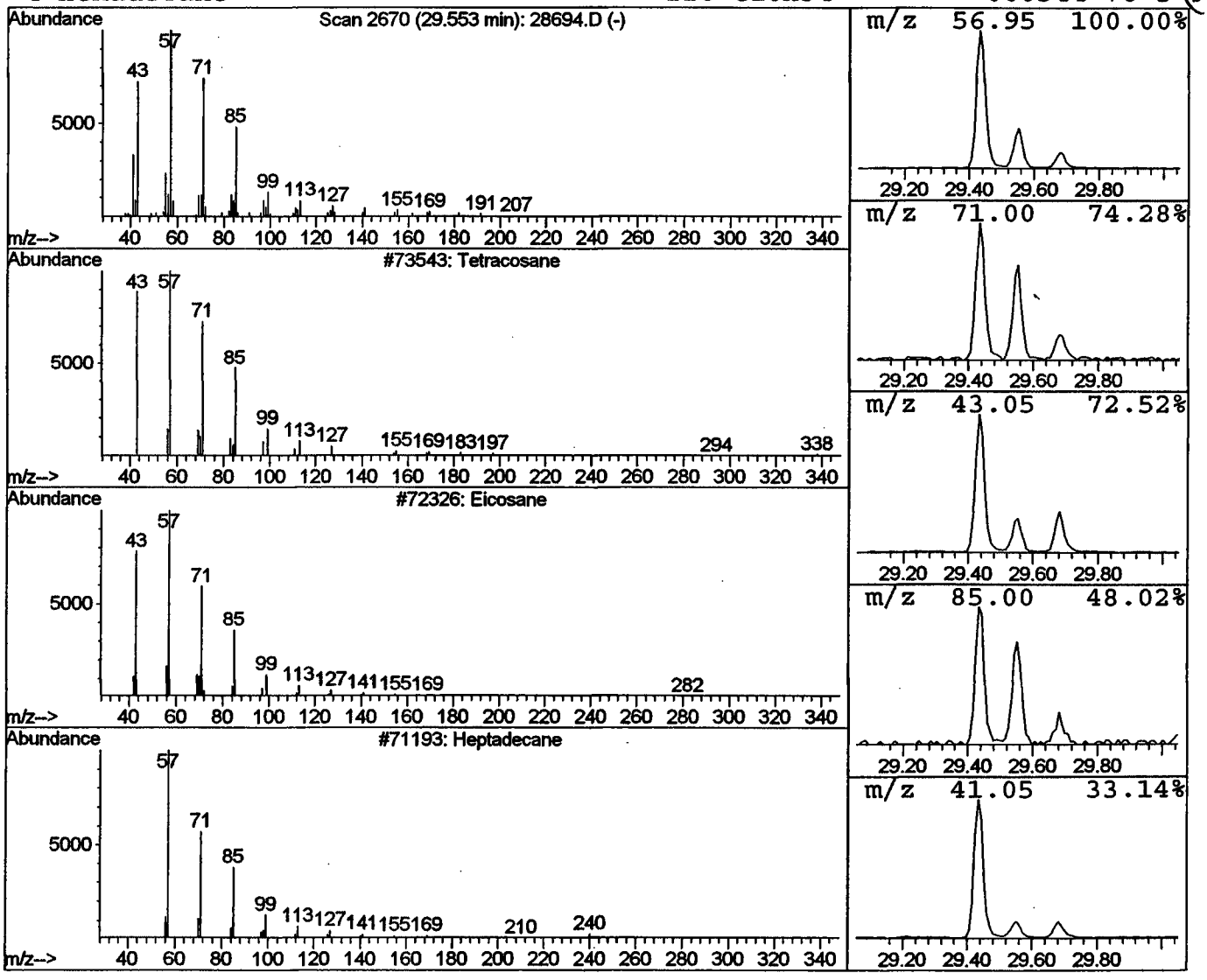
Peak Number 2 Tetracosane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
29.55	0.51 ug/l	124756	Chrysene-d12	33.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracosane	338	C24H50	000646-31-1	91
2	Eicosane	282	C20H42	000112-95-8	91
3	Heptadecane	240	C17H36	000629-78-7	91
4	Hexadecane	226	C16H34	000544-76-3	91



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\DEC0401\28694.D
Acq On : 4 Dec 2001 4:16 pm
Sample : gc/ms 11/24
Misc :
MS Integration Params: LSCINT.P

Vial: 5
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
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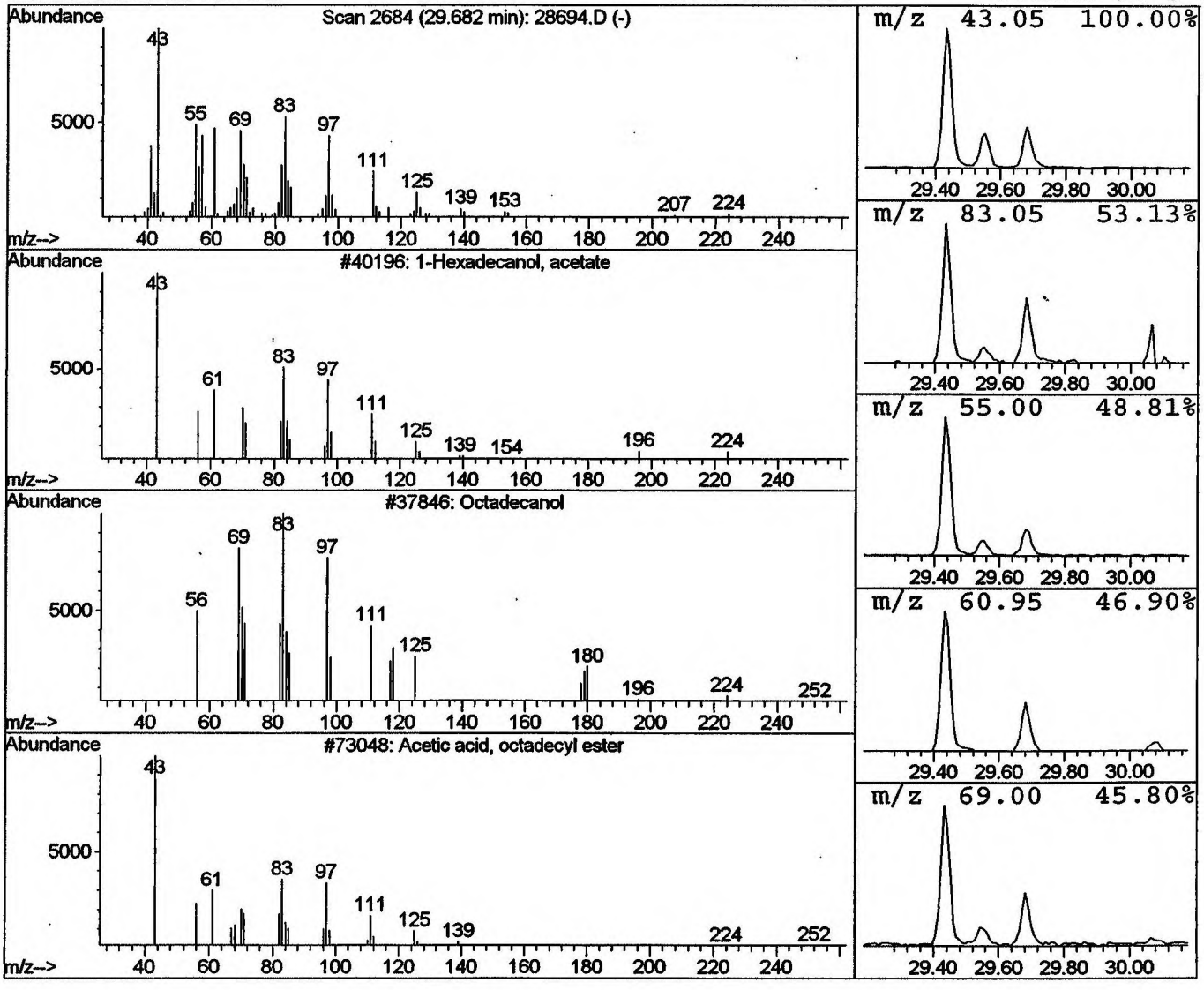
Peak Number 3 1-Hexadecanol, acetate Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
29.68	0.61 ug/l	149937	Chrysene-d12	33.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexadecanol, acetate	284	C18H36O2	000629-70-9	83
2	Octadecanol	270	C18H38O	026762-44-7	68
3	Acetic acid, octadecyl ester	312	C20H40O2	000822-23-1	68
4	1-Octadecanol	270	C18H38O	000112-92-5	62



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Acq On : 4 Dec 2001 4:16 pm
Sample : gc/ms 11/24
Misc :
MS Integration Params: LSCINT.P

Vial: 5
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
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Library : C:\DATABASE\NBS75K.L

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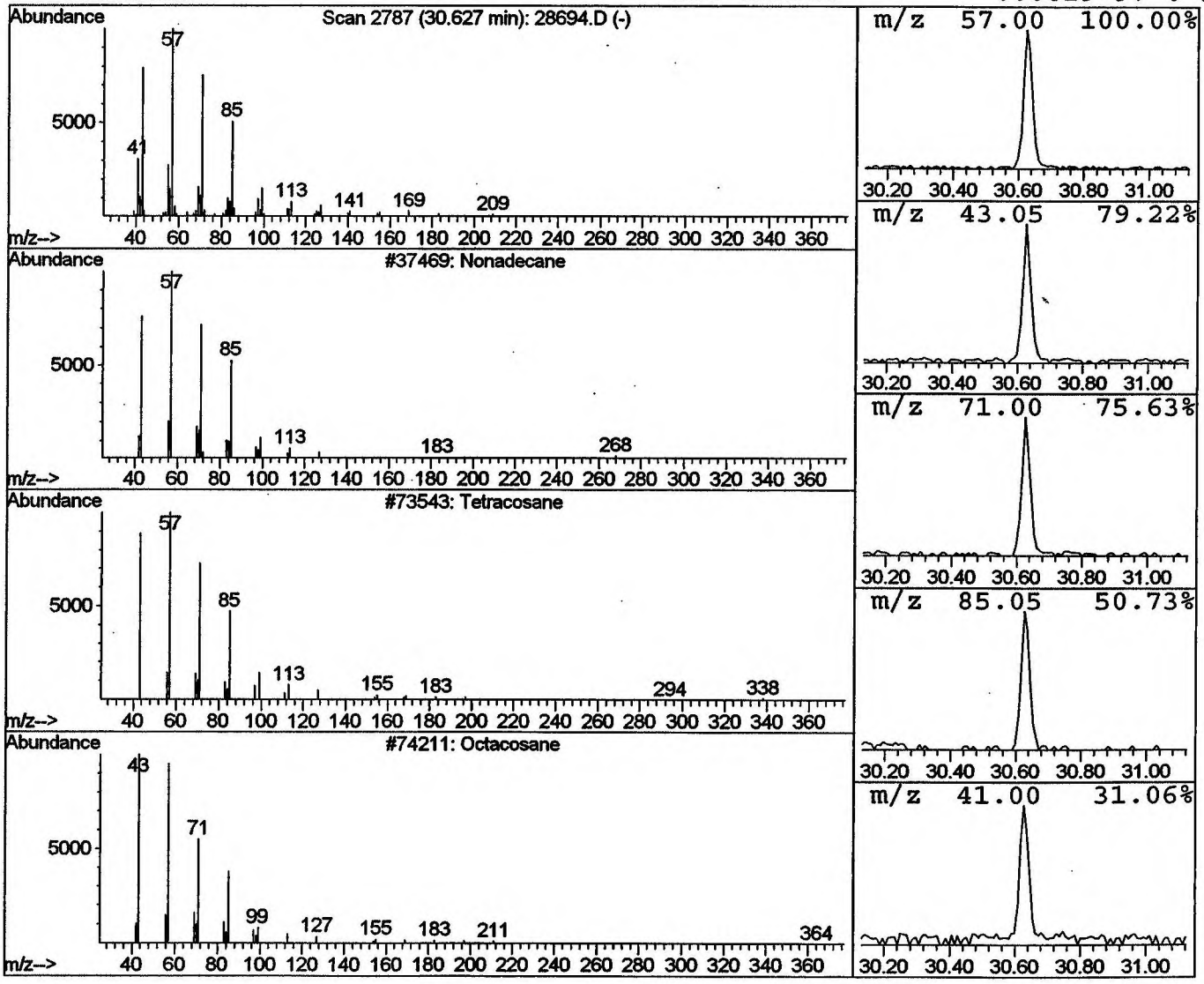
Peak Number 4 Nonadecane — Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
30.63	0.52 ug/l	128225	Chrysene-d12	33.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	91
2	Tetracosane	338	C24H50	000646-31-1	91
3	Octacosane	394	C28H58	000630-02-4	91
4	Docosane	310	C22H46	000629-97-0	91



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\DEC0401\28694.D
Acq On : 4 Dec 2001 4:16 pm
Sample : gc/ms 11/24
Misc :
MS Integration Params: LSCINT.P

Vial: 5
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
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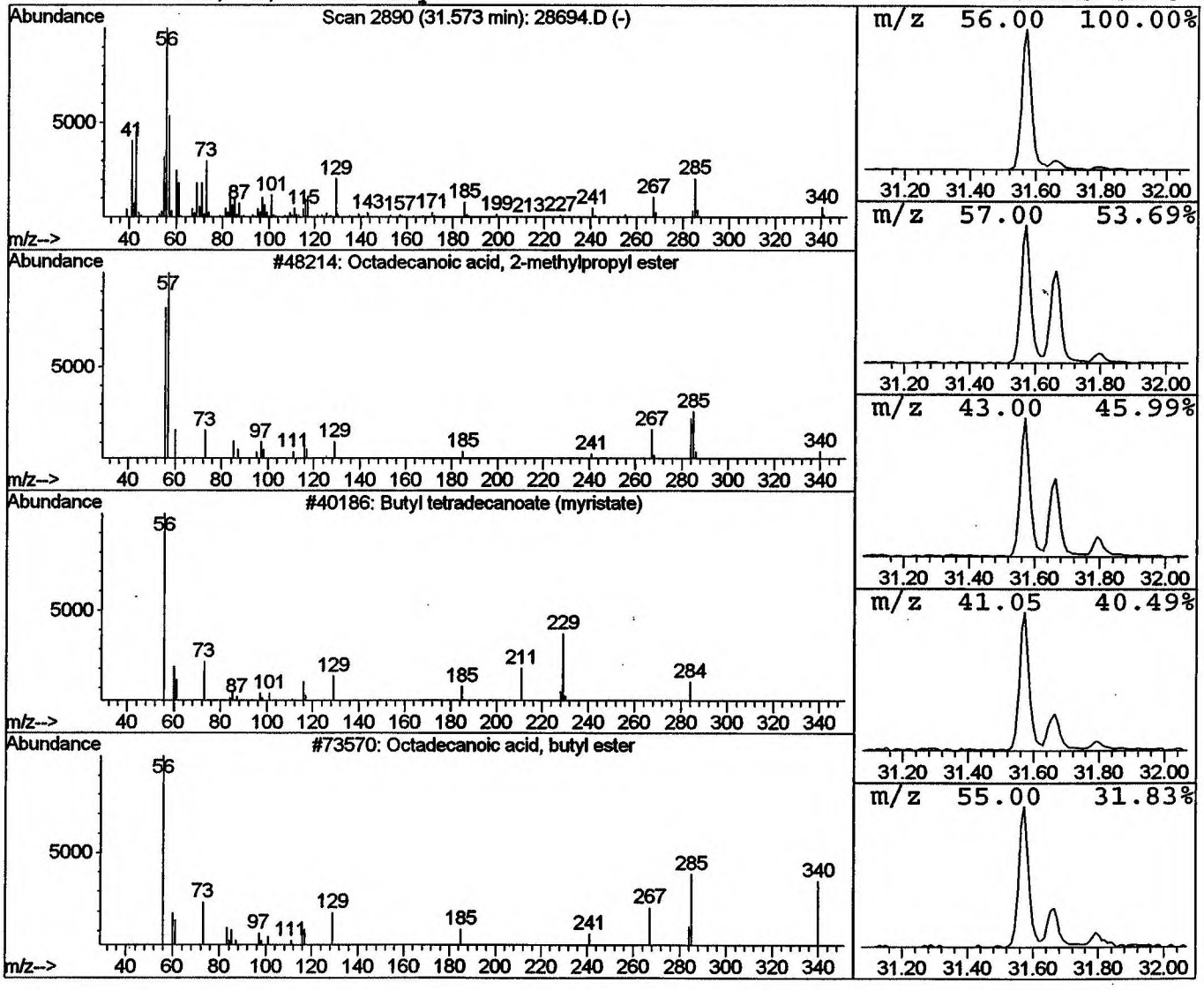
Peak Number 5 Octadecanoic acid, 2-methylpro Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
31.57	2.60 ug/l	641444	Chrysene-d12	33.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid, 2-methylpropyl e	340	C22H44O2	000646-13-9	87
2	Butyl tetradecanoate (myristate)	284	C18H36O2	000000-00-0	64
3	Octadecanoic acid, butyl ester	340	C22H44O2	000123-95-5	38
4	1-Pentene, 2,4-dimethyl-	98	C7H14	002213-32-3	27



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Acq On : 4 Dec 2001 4:16 pm
Sample : gc/ms 11/24
Misc :
MS Integration Params: LSCINT.P

Vial: 5
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Library : C:\DATABASE\NBS75K.L

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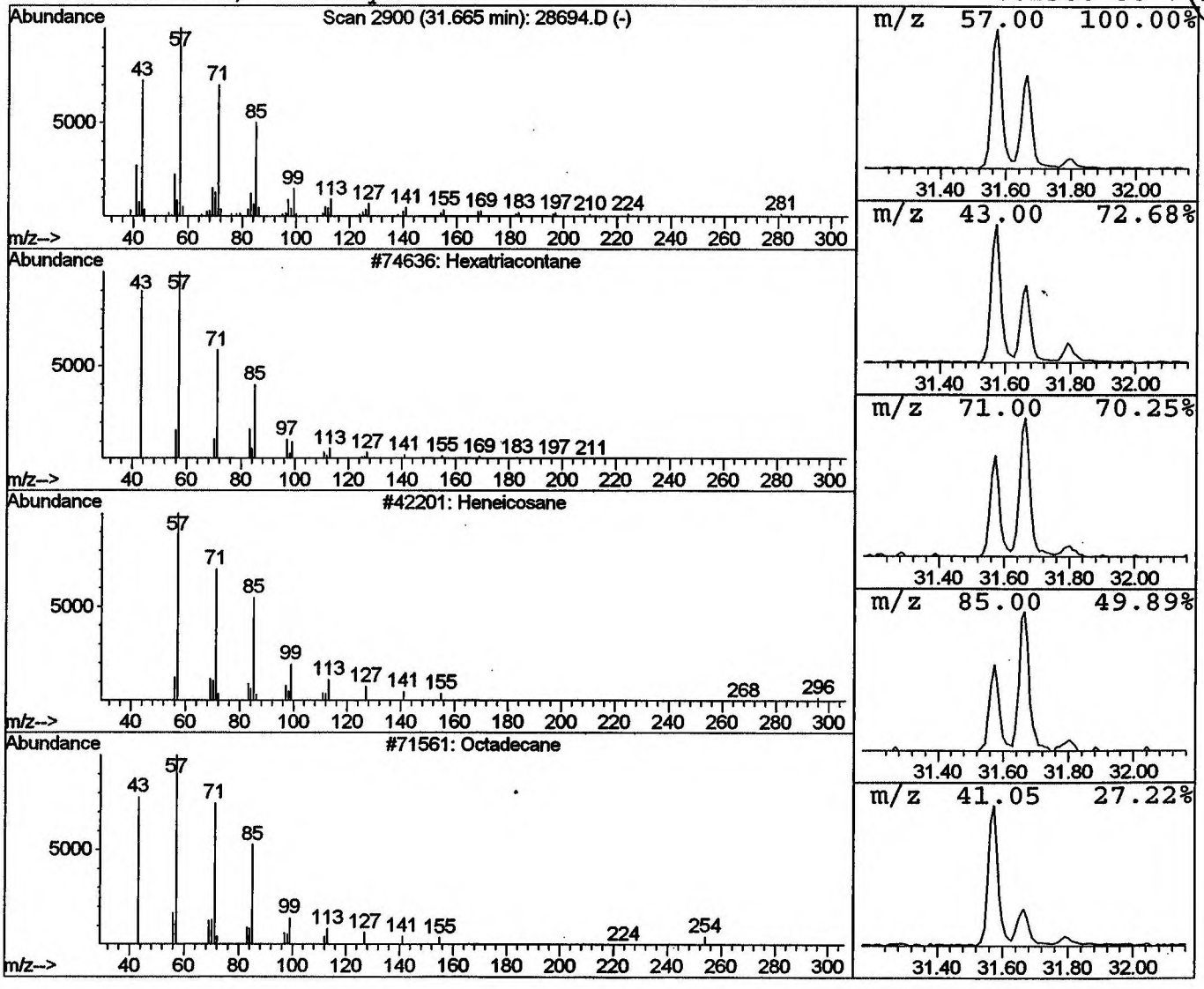
Peak Number 6 Hexatriacontane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
31.66	0.84 ug/l	206357	Chrysene-d12	33.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexatriacontane	507	C36H74	000630-06-8	91
2	Heneicosane	296	C21H44	000629-94-7	91
3	Octadecane	254	C18H38	000593-45-3	91
4	Nonadecane, 2-methyl-	282	C20H42	001560-86-7	91



Library Search Compound Report

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Sample : gc/ms 11/24
Misc :
MS Integration Params: LSCINT.P

Vial: 5
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Library : C:\DATABASE\NBS75K.L

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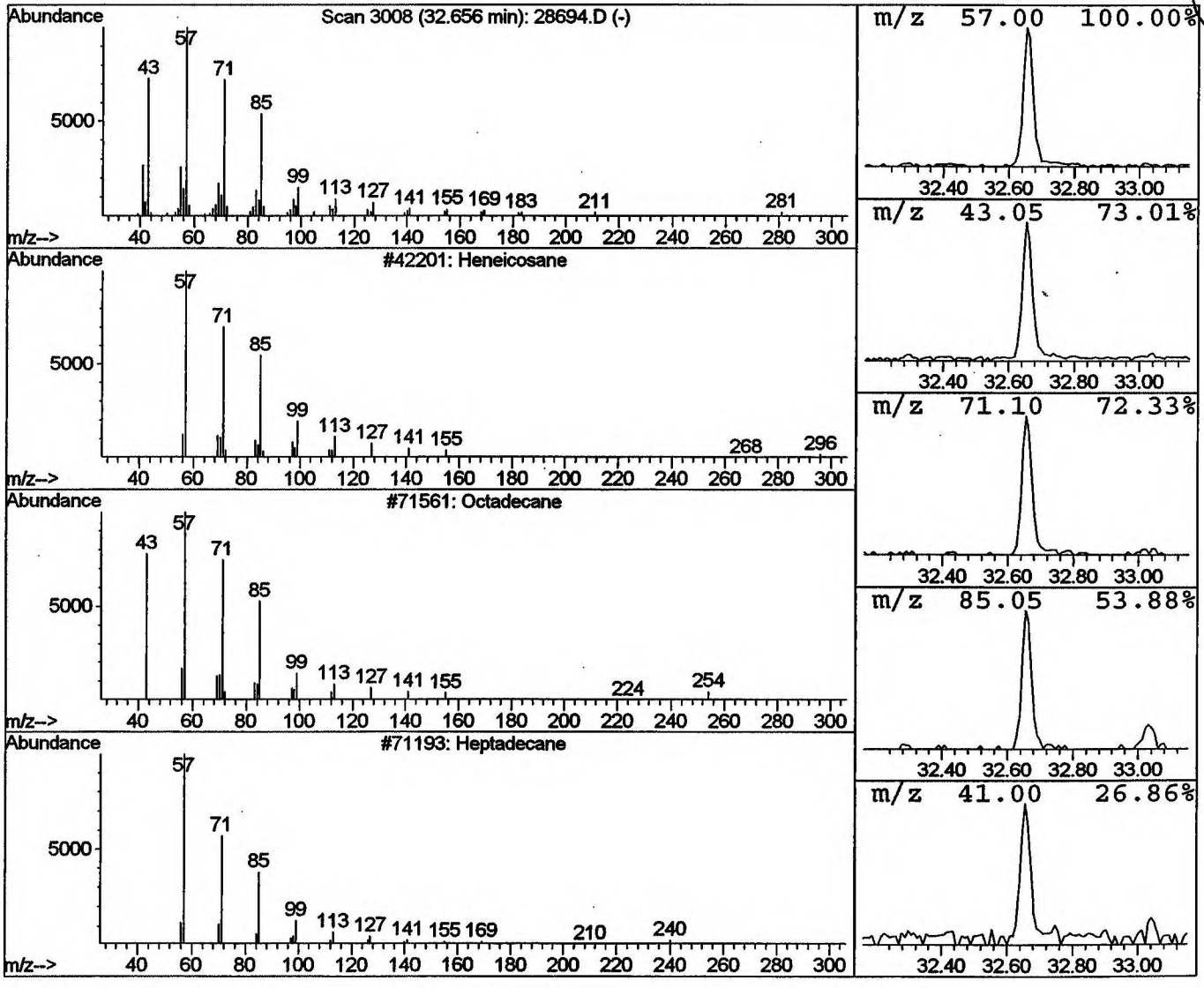
Peak Number 7 Heneicosane — Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
32.66	0.59 ug/l	144607	Chrysene-d12	33.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	91
2	Octadecane	254	C18H38	000593-45-3	91
3	Heptadecane	240	C17H36	000629-78-7	91
4	Nonacosane	408	C29H60	000630-03-5	91



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\DEC0401\28694.D
Acq On : 4 Dec 2001 4:16 pm
Sample : gc/ms 11/24
Misc :
MS Integration Params: LSCINT.P

Vial: 5
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

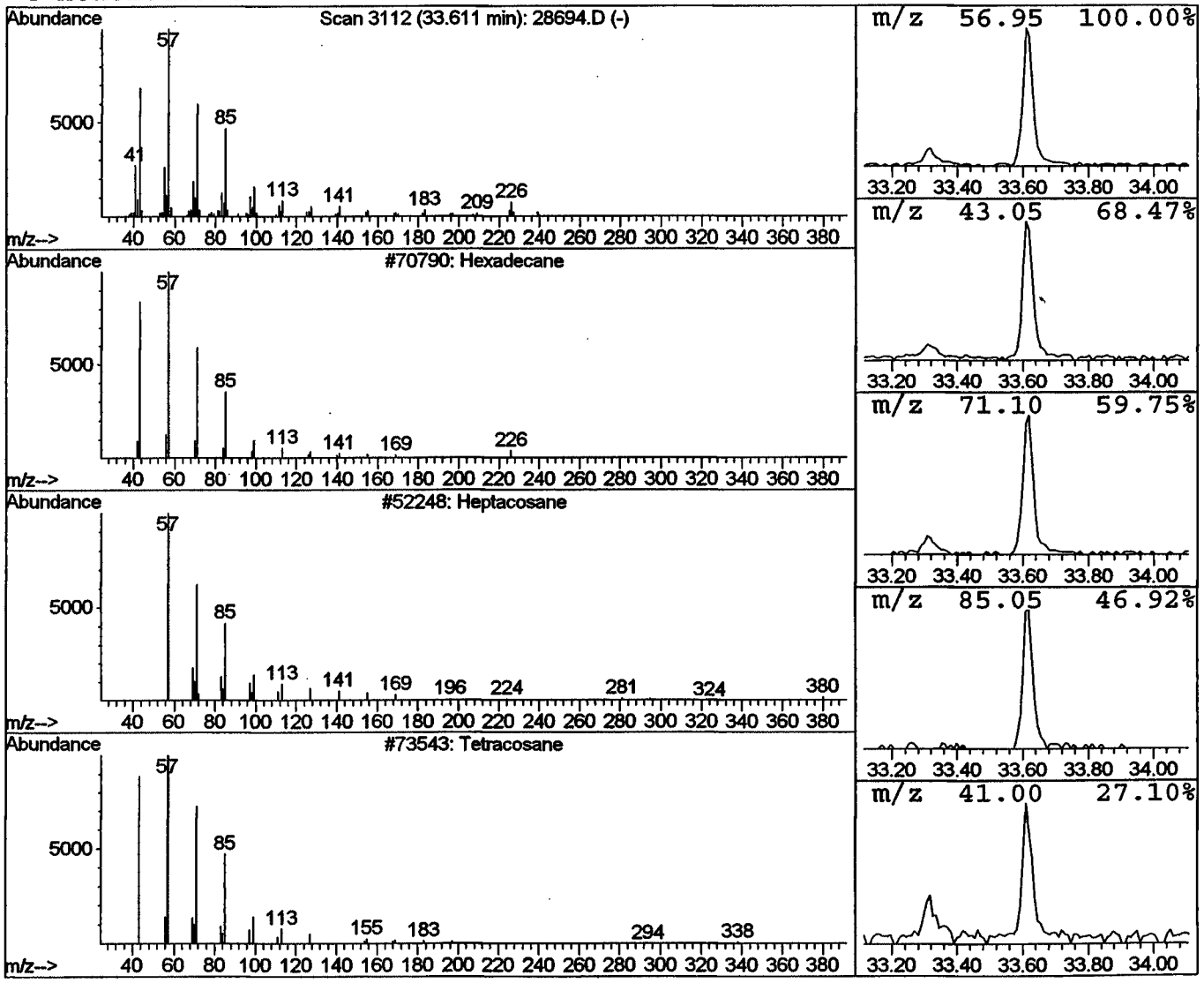
Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Library : C:\DATABASE\NBS75K.L

****

Peak Number 8 Hexadecane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
33.61	0.70 ug/l	173378	Chrysene-d12	33.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	93
2	Heptacosane	380	C27H56	000593-49-7	91
3	Tetracosane	338	C24H50	000646-31-1	90
4	Heneicosane	296	C21H44	000629-94-7	90



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\DEC0401\28694.D
Acq On : 4 Dec 2001 4:16 pm
Sample : gc/ms 11/24
Misc :
MS Integration Params: LSCINT.P

Vial: 5
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

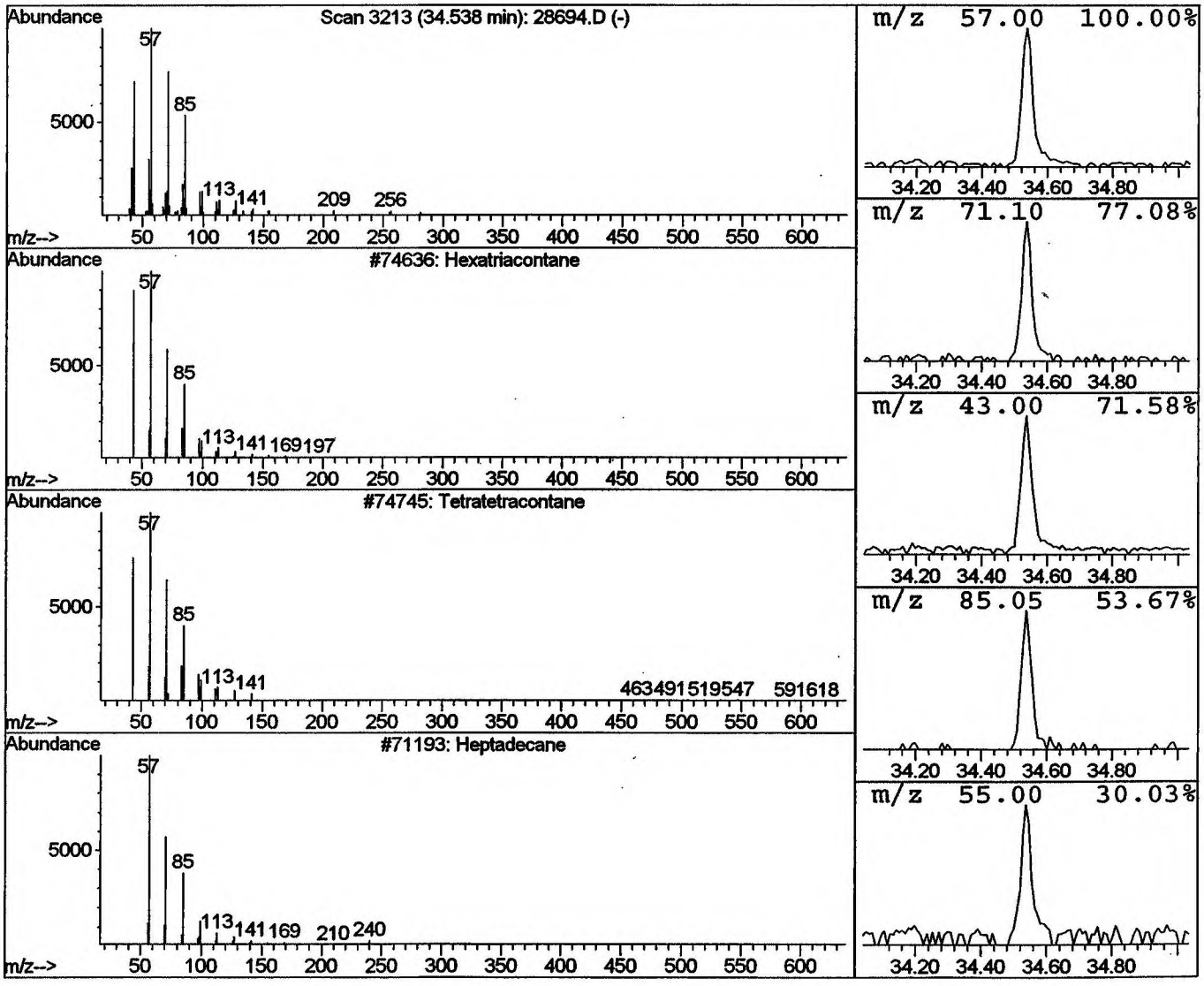
Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Library : C:\DATABASE\NBS75K.L

****

Peak Number 9 Hexatriacontane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
34.54	0.43 ug/l	106550	Chrysene-d12	33.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexatriacontane	507	C36H74	000630-06-8	91
2	Tetratetracontane	619	C44H90	007098-22-8	91
3	Heptadecane	240	C17H36	000629-78-7	91
4	Octadecane	254	C18H38	000593-45-3	90



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\DEC0401\28694.D
Acq On : 4 Dec 2001 4:16 pm
Sample : gc/ms 11/24
Misc :
MS Integration Params: LSCINT.P

Vial: 5
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

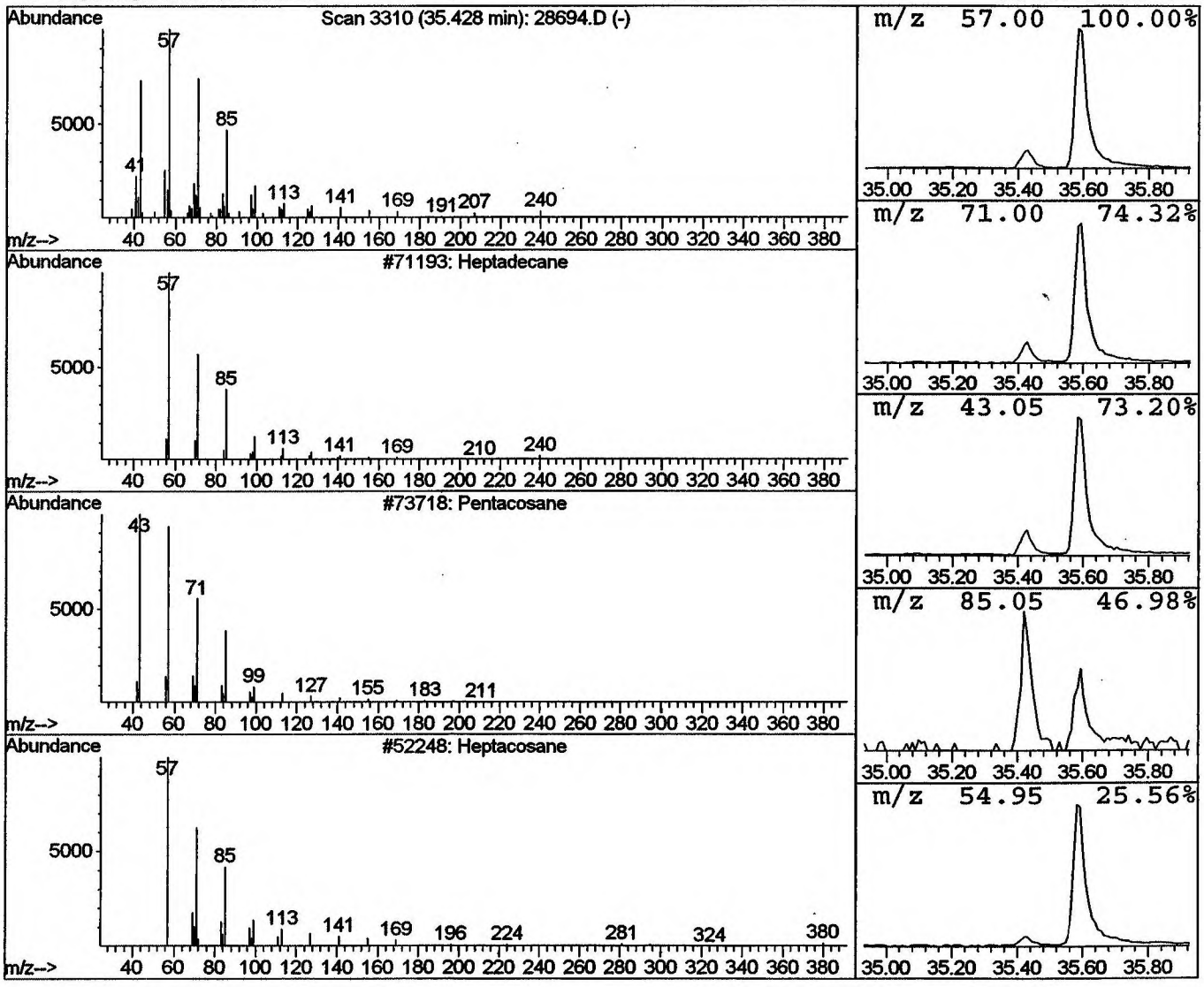
Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Library : C:\DATABASE\NBS75K.L

****

Peak Number 10 Heptadecane — Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
35.43	0.41 ug/l	82976	Perylene-d12	37.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane	240	C17H36	000629-78-7	96
2	Pentacosane	352	C25H52	000629-99-2	91
3	Heptacosane	380	C27H56	000593-49-7	91
4	Hexatriacontane	507	C36H74	000630-06-8	91



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\DEC0401\28694.D
Acq On : 4 Dec 2001 4:16 pm
Sample : gc/ms 11/24
Misc :
MS Integration Params: LSCINT.P

Vial: 5
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

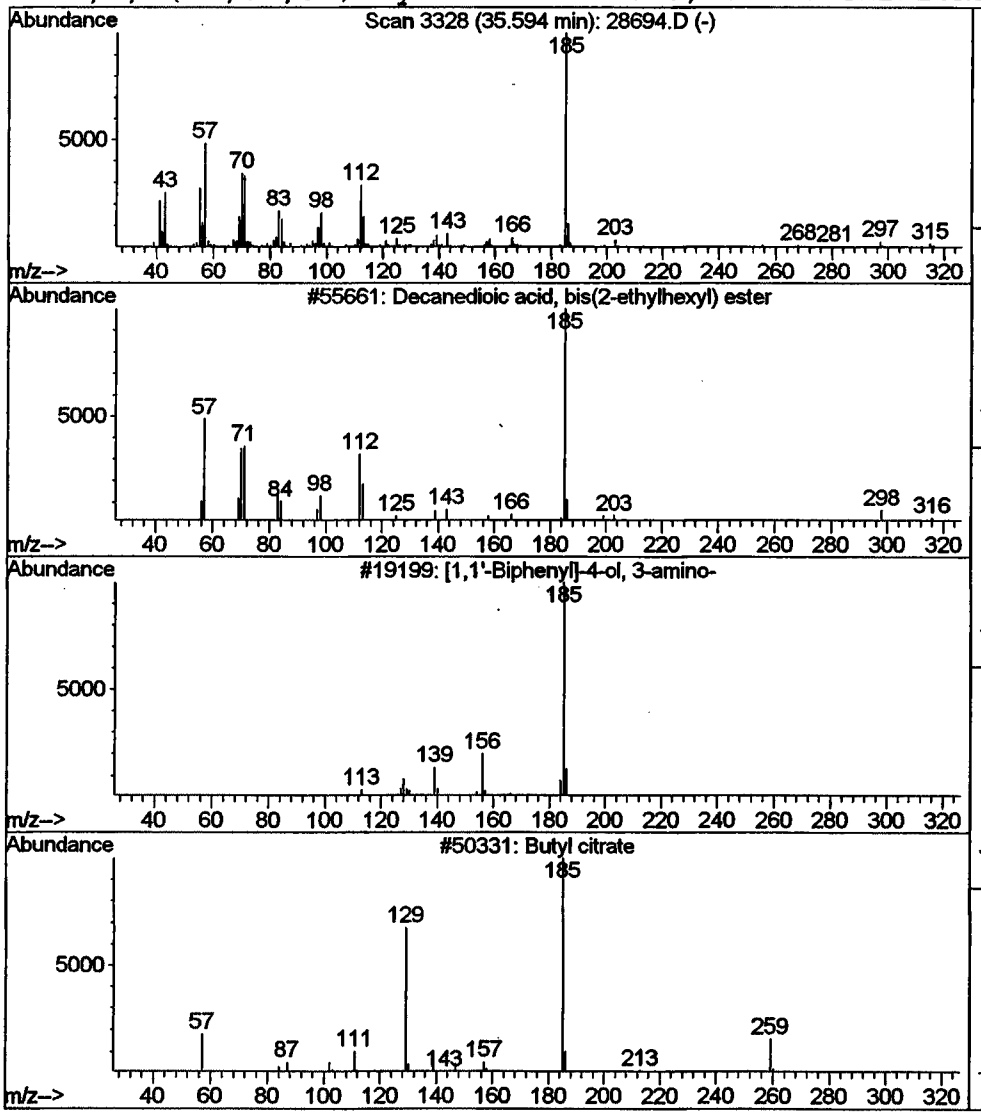
Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Library : C:\DATABASE\NBS75K.L

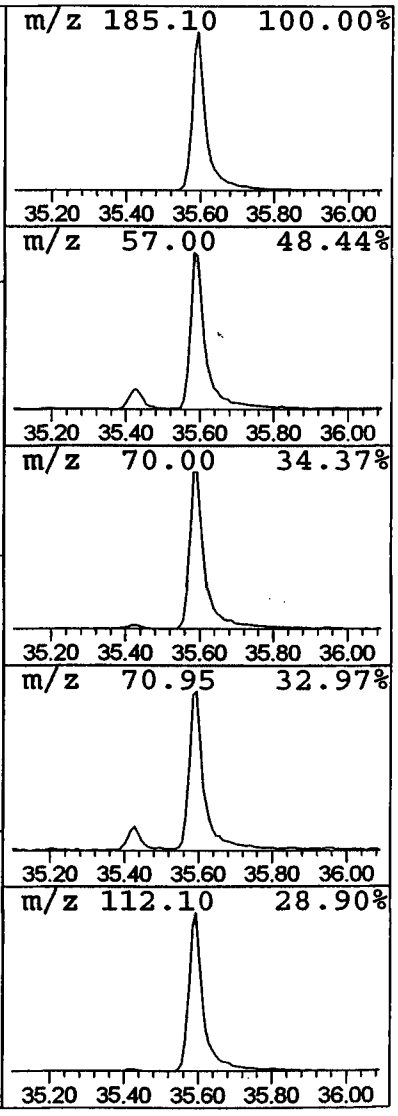
****

Peak Number 11 Decanedioic acid, bis(2-ethylh Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
35.59	6.56 ug/l	1341920	Perylene-d12	37.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decanedioic acid, bis(2-ethylhexyl)	426	C26H50O4	000122-62-3	91
2	[1,1'-Biphenyl]-4-ol, 3-amino-	185	C12H11NO	001134-36-7	38
3	Butyl citrate	360	C18H32O7	000077-94-1	32
4	2,4,6(1H,3H,5H)-Pyrimidinetrione, 5	240	C12H20N2O3	051209-93-9	25





Tentatively Identified Compound (LSC) summary

Operator ID: 209 GALOS Date Acquired: 4 Dec 2001 4:16 pm
Data File: C:\HPCHEM\1\DATA\DEC0401\28694.D
Name: gc/ms 11/24
Misc:
Method: C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
Title: 209 625/TCLP calibration table
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
~~Oxirane,~~ 2,3-bis(1-m	29.43	4.1	ug/l	1020770	ISTD05	33.04	4939450	20.0
Tetracosane	29.55	0.5	ug/l	124756	ISTD05	33.04	4939450	20.0
1-Hexadecanol, aceta	29.68	0.6	ug/l	149937	ISTD05	33.04	4939450	20.0
Nonadecane	30.63	0.5	ug/l	128225	ISTD05	33.04	4939450	20.0
Octadecanoic acid, 2	31.57	2.6	ug/l	641444	ISTD05	33.04	4939450	20.0
Hexatriacontane	31.66	0.8	ug/l	206357	ISTD05	33.04	4939450	20.0
Heneicosane	32.66	0.6	ug/l	144607	ISTD05	33.04	4939450	20.0
Hexadecane	33.61	0.7	ug/l	173378	ISTD05	33.04	4939450	20.0
Hexatriacontane	34.54	0.4	ug/l	106550	ISTD05	33.04	4939450	20.0
Heptadecane	35.43	0.4	ug/l	82976	ISTD06	37.14	4091150	20.0
Decanedioic acid, bi	35.59	6.6	ug/l	1341920	ISTD06	37.14	4091150	20.0

28694.D GCMS1126.M Thu Dec 06 15:34:20 2001

Tentative ID