Comments for Sample AD28691 - Analysis $GCMS

Westchester Dept. of Labs & Research
User: Vinci, David L
Date: 12-07-2001 Time: 17:24:02

The GCMS scan, from 35 to 550 amu, does not reveal the presence of unusual compounds.
The recovery for the Surrogate Standard in this sample was 96%. Recoveries for 9 of the 44 compounds in the LCS Standard were outside of their acceptance ranges. The chromatogram reveals contamination which has 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\28691.D Vial: 11
Acq On : 4 Dec 2001 10:08 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 22:57 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	11.71	152	843975	20.00	ug/l	0.01
15) Naphthalene-d8	15.32	136	3240866	20.00	ug/l	0.01
26) Acenaphthene-d10	20.59	164	1603663	20.00	ug/l	0.01
42) Phenanthrene-d10	25.00	188	2244905	20.00	ug/l	0.01
53) Chrysene-d12	33.04	240	1454884	20.00	ug/l	0.00
59) Perylene-d12	37.13	264	1015257	20.00	ug/l	0.01
System Monitoring Compounds						
52) 2,4-DDD	30.08	235	128536	4.81	ug/mL	0.00
Spiked Amount 5.000			Recovery = 96.20%			
Target Compounds						Qvalue
2) Pyridine	0.00	79	0	N.D.		
3) N-nitroso-dimethyl amine	5.27	74	103	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	15.37	128	525	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
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	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	0.00	65	0	N.D.	
37)	2,4-Dinitrotoluene	21.38	165	103	N.D.	
38)	Diethylphthalate	22.11	149	908	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	25.01	178	842	N.D.	
49)	Anthracene	25.01	178	842	N.D.	
50)	Di-n-butylphthalate	27.01	149	19131	N.D.	
51)	Fluoranthene	0.00	202	0	N.D.	
54)	Pyrene	0.00	202	0	N.D.	
55)	Butylbenzylphthalate	31.57	149	1871	N.D.	
56)	Benzo(a)anthracene	33.04	228	3462	N.D.	
57)	Bis(2-ethylhexyl)phthalate	33.31	149	13282	N.D.	
58)	Chrysene	33.04	228	3462	N.D.	
60)	Di-n-Octylphthalate	0.00	149	0	N.D.	
61)	Benzo(b)fluoranthene	36.16	252	196	N.D.	
62)	Benzo(k)fluoranthene	36.16	252	196	N.D.	
63)	Benzo(a)pyrene	37.13	252	3934	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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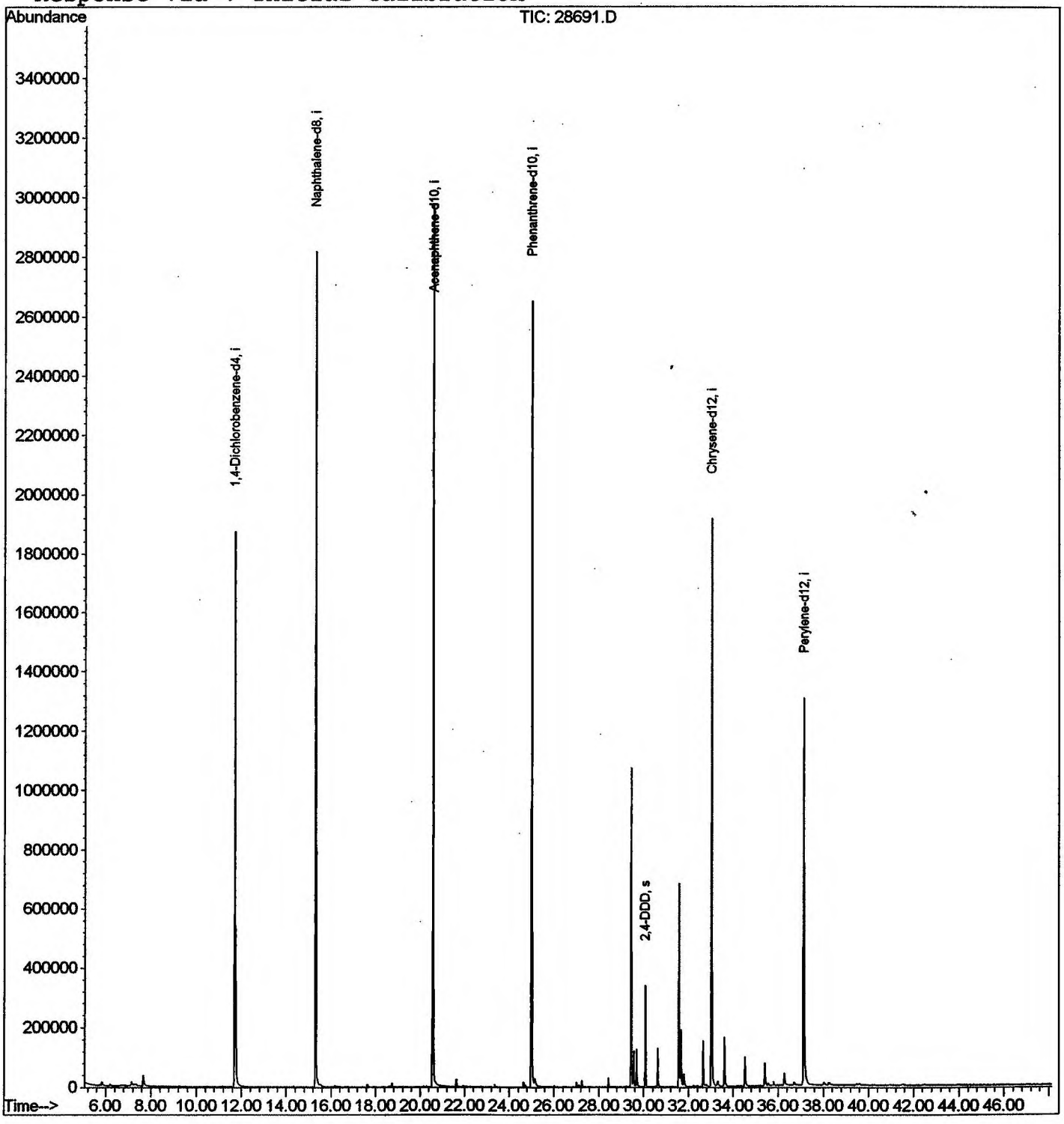
Sample : gc/ms 11/24
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 4 22:57 2001

Vial: 11
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00
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\28691.D Vial: 11
Acq On : 4 Dec 2001 10:08 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

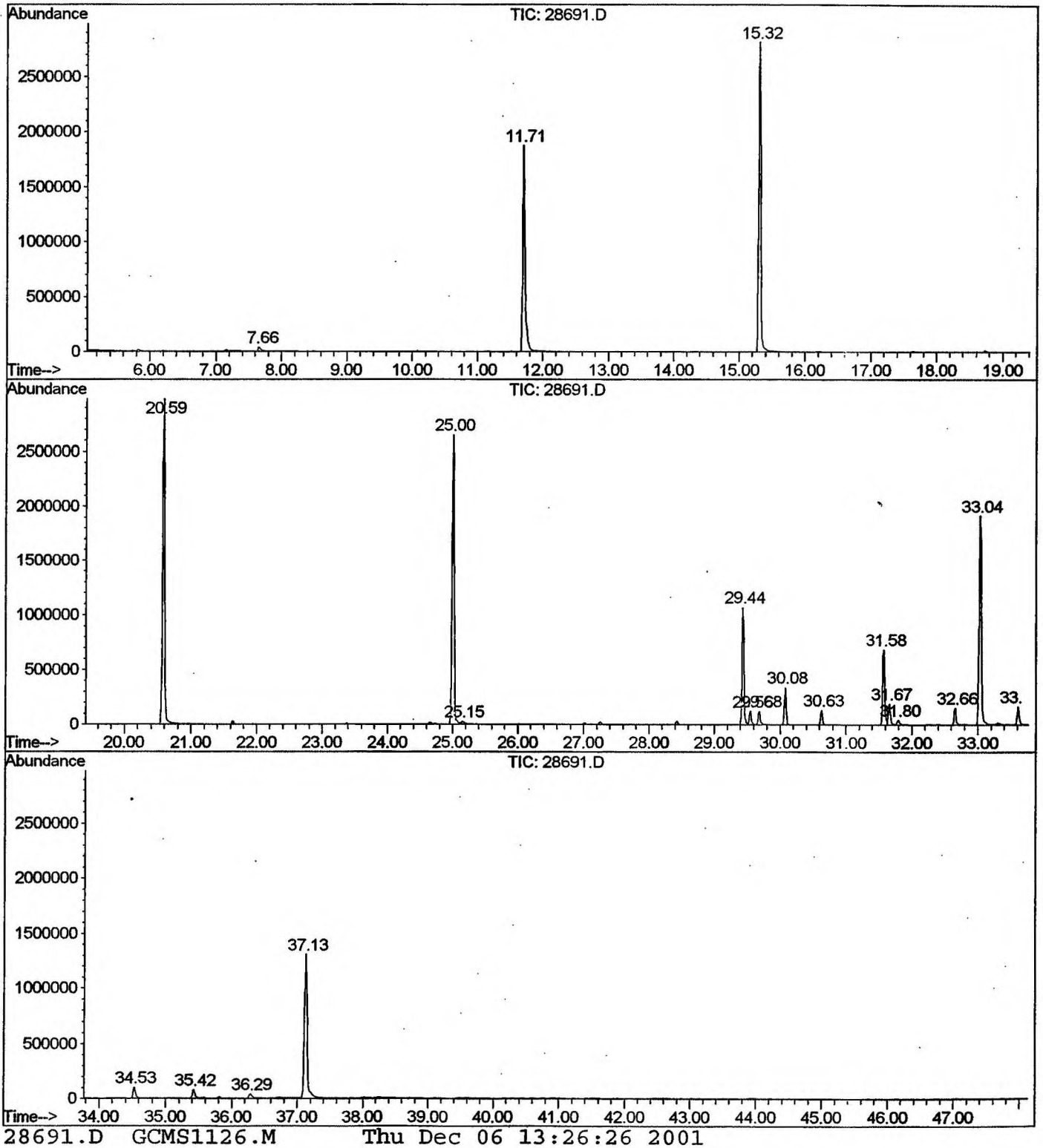
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	7.661	281	285	293	rBV	36234	95862	1.48%	0.249%
2	11.709	721	726	746	rBV	1873767	4560118	70.52%	11.866%
3	15.317	1113	1119	1136	rBV	2816938	6031544	93.28%	15.695%
4	20.587	1686	1693	1714	rBV	2978610	6466119	100.00%	16.826%
5	25.003	2168	2174	2186	rBV2	2651410	5898533	91.22%	15.349%
6	25.149	2187	2190	2199	rVB	23688	73890	1.14%	0.192%
7	29.437	2652	2657	2665	rBV	1072683	2123227	32.84%	5.525%
8	29.556	2665	2670	2678	rVV	120725	265911	4.11%	0.692%
9	29.684	2678	2684	2697	rVB	124813	270660	4.19%	0.704%
10	30.079	2721	2727	2738	rBV	338844	691385	10.69%	1.799%
11	30.630	2782	2787	2794	rBV	129900	253767	3.92%	0.660%
12	31.576	2883	2890	2896	rBV	683911	1492883	23.09%	3.885%
13	31.667	2896	2900	2910	rVV	190377	441012	6.82%	1.148%
14	31.796	2910	2914	2925	rVB2	41101	107718	1.67%	0.280%
15	32.659	3002	3008	3015	rBV	153691	325553	5.03%	0.847%
16	33.035	3042	3049	3068	rBV2	1915108	4558131	70.49%	11.861%
17	33.614	3102	3112	3124	rBV	165932	387370	5.99%	1.008%
18	34.532	3207	3212	3223	rBV	97814	247833	3.83%	0.645%
19	35.422	3303	3309	3320	rBV	77517	212422	3.29%	0.553%
20	36.285	3397	3403	3412	rBV2	38899	115981	1.79%	0.302%
21	37.130	3487	3495	3520	rBV2	1301923	3810046	58.92%	9.914%

Sum of corrected areas: 38429965

28691.D GCMS1126.M Thu Dec 06 13:26:24 2001

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\DEC0401\28691.D
Operator : 209 GALOS
Acquired : 4 Dec 2001 10:08 pm using AcqMethod GCMS1126
Instrument : GC/MS 209
Sample Name: gc/ms 11/24
Misc Info :
Vial Number: 11
Quant File :GCMS1126.RES (RTE Integrator)



28691.D GCMS1126.M Thu Dec 06 13:26:26 2001

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\DEC0401\28691.D
Acq On : 4 Dec 2001 10:08 pm
Sample : gc/ms 11/24
Misc :
MS Integration Params: LSCINT.P

Vial: 11
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

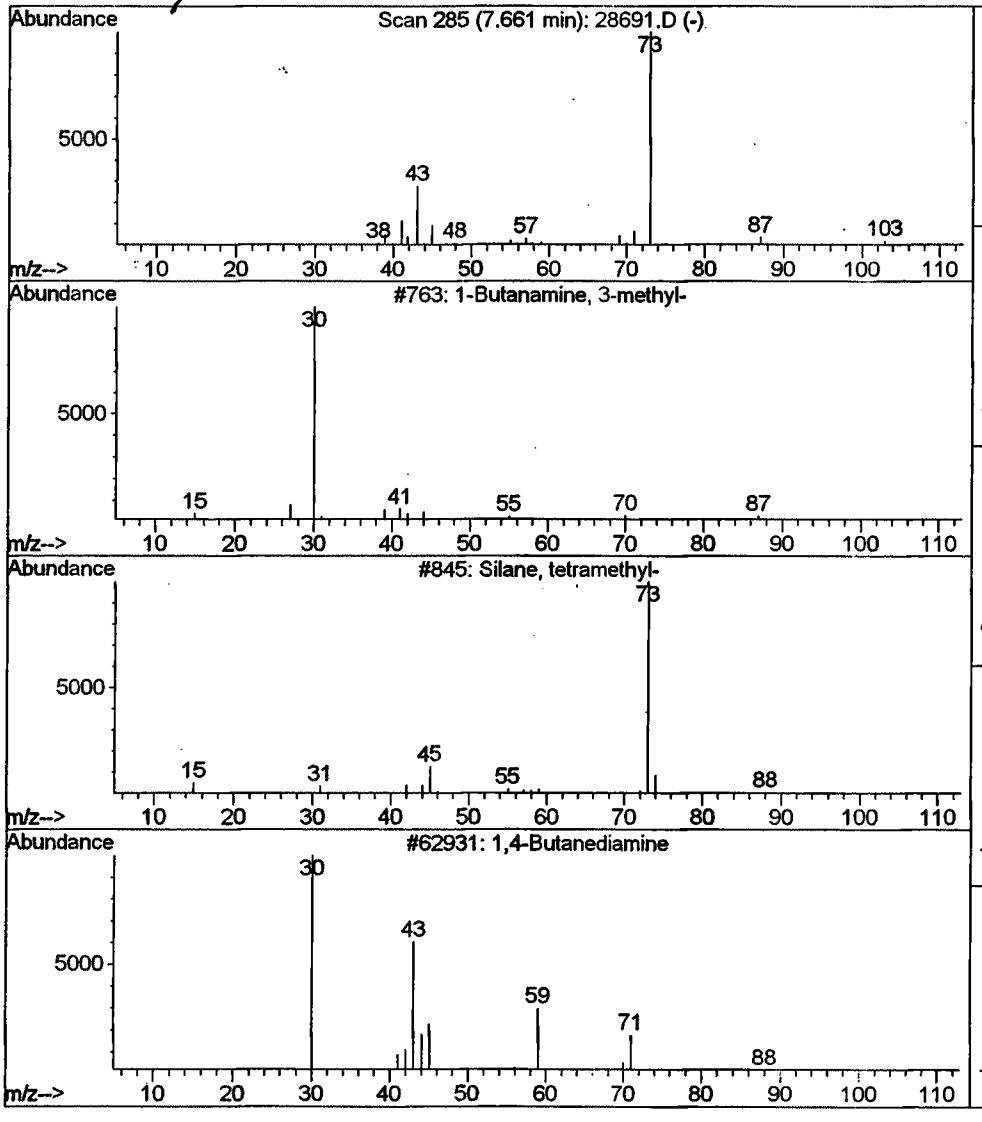
Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Library : C:\DATABASE\NBS75K.L

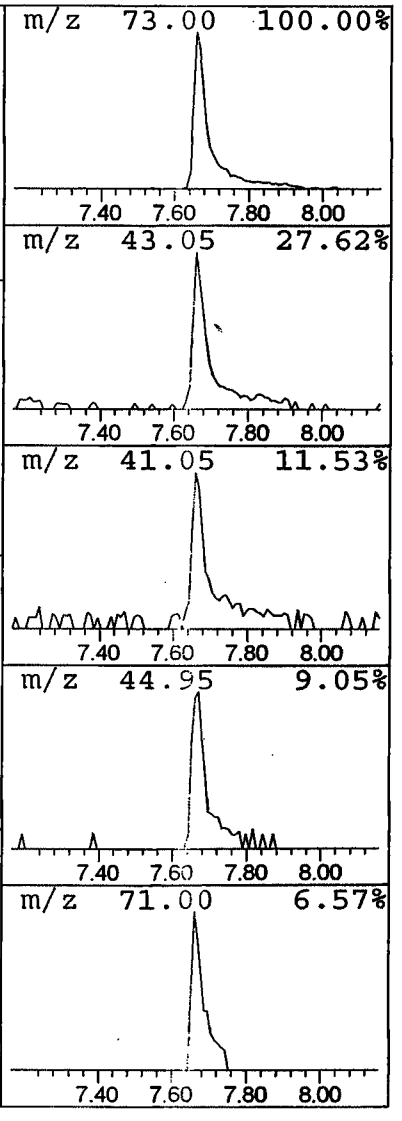
****

Peak Number 1 1-Butanamine, 3-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.66	0.42 ug/l	95862	1,4-Dichlorobenzene-d4	11.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Butanamine, 3-methyl-	87	C5H13N	000107-85-7	9
2	Silane, tetramethyl-	88	C4H12Si	000075-76-3	9
3	1,4-Butanediamine	88	C4H12N2	000110-60-1	7
4	1-Pentanamine	87	C5H13N	000110-58-7	7





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

Vial: 11
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
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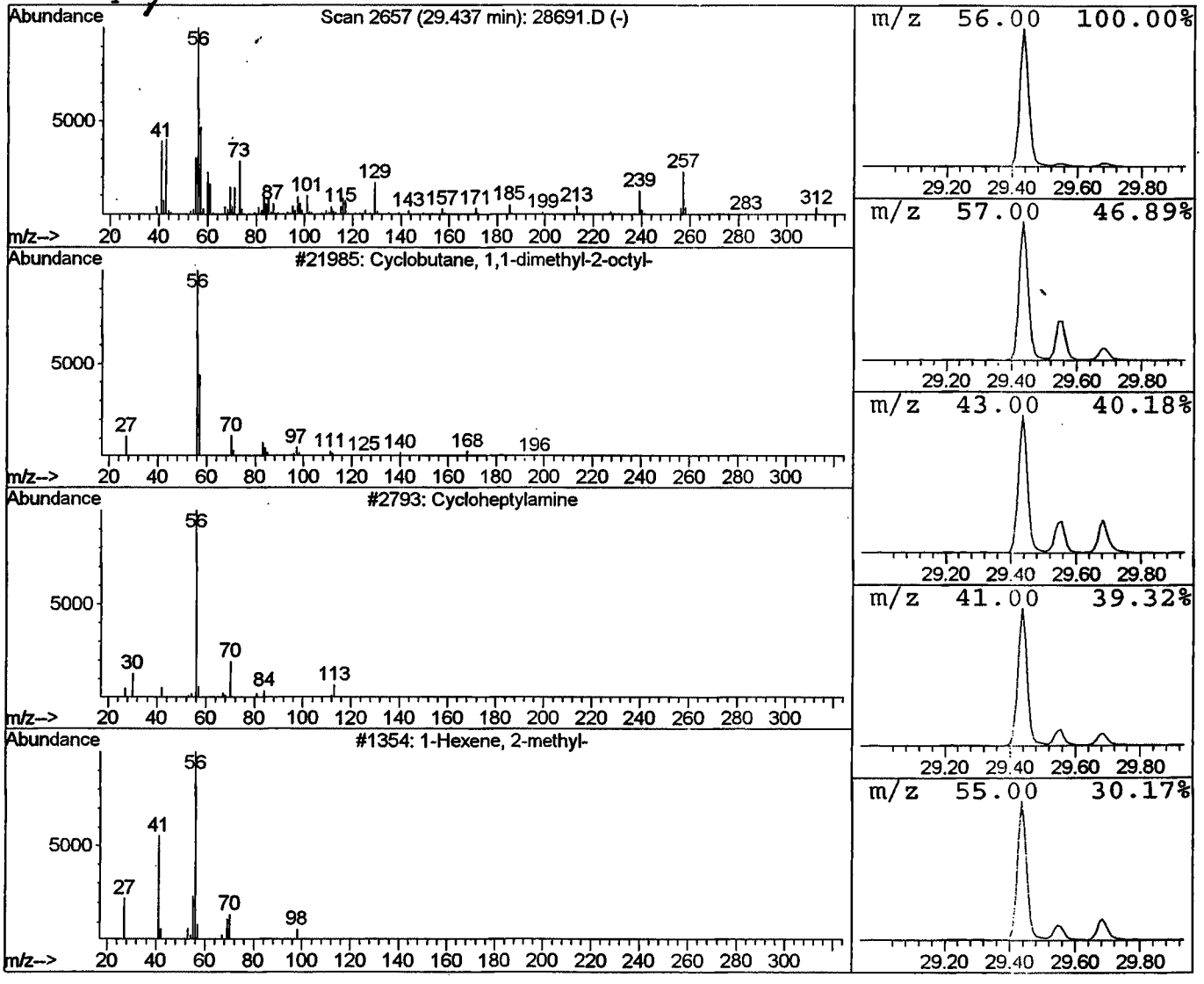
Peak Number 2 Cyclobutane, 1,1-dimethyl-2-oc Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
29.44	9.32 ug/l	2123230	Chrysene-d12	33.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclobutane, 1,1-dimethyl-2-octyl-	196	C14H28	062338-30-1	35
2	Cycloheptylamine	113	C7H15N	005452-35-7	27
3	1-Hexene, 2-methyl-	98	C7H14	006094-02-6	27
4	Butyl hexadecanoate	312	C20H40O2	000000-00-0	25



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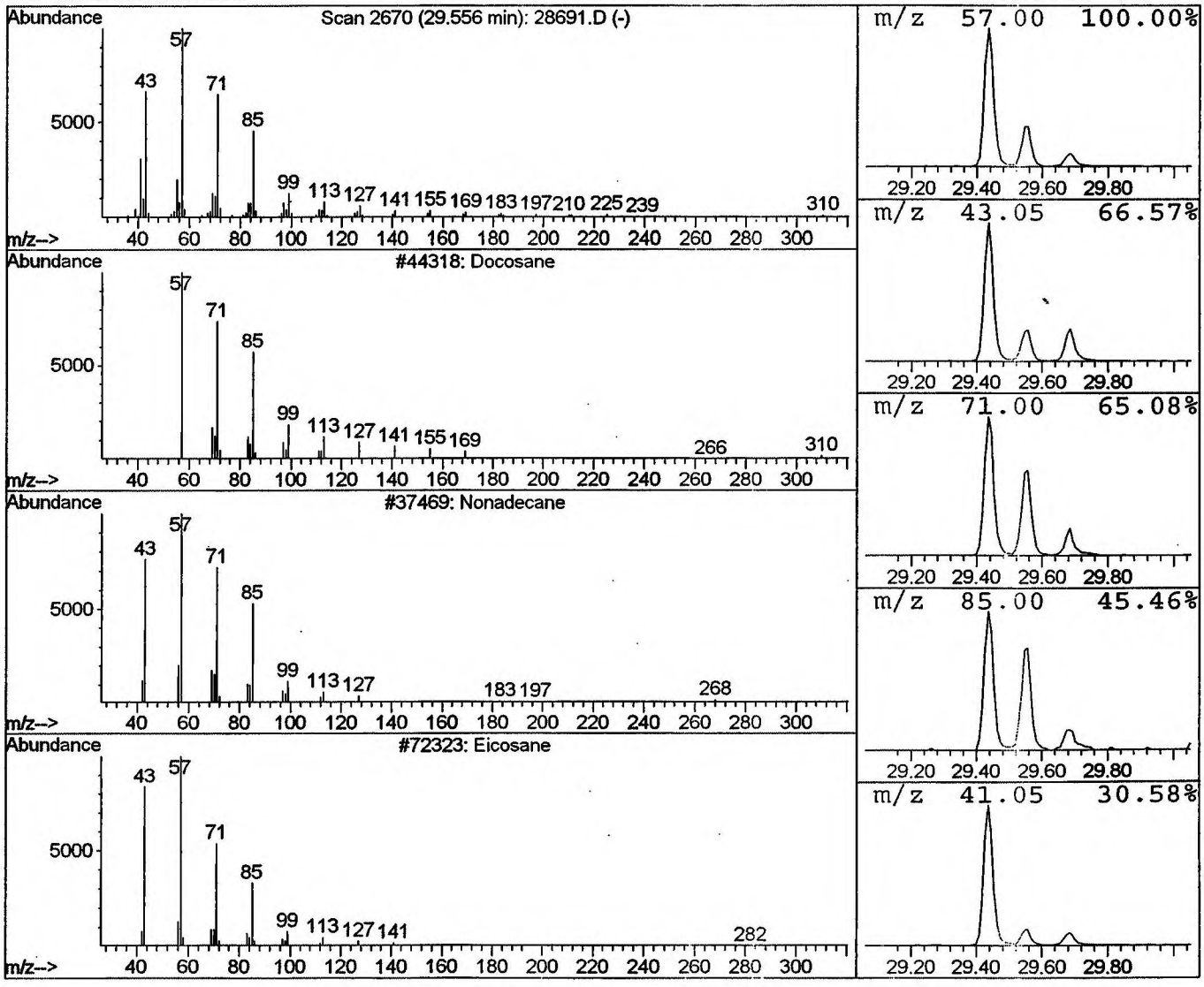
Peak Number 3 Docosane — Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
29.56	1.17 ug/l	265911	Chrysene-d12	33.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Docosane	310	C22H46	000629-97-0	93
2	Nonadecane	268	C19H40	000629-92-5	91
3	Eicosane	282	C20H42	000112-95-8	91
4	Heneicosane	296	C21H44	000629-94-7	90



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Misc :
MS Integration Params: LSCINT.P

Vial: 11
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
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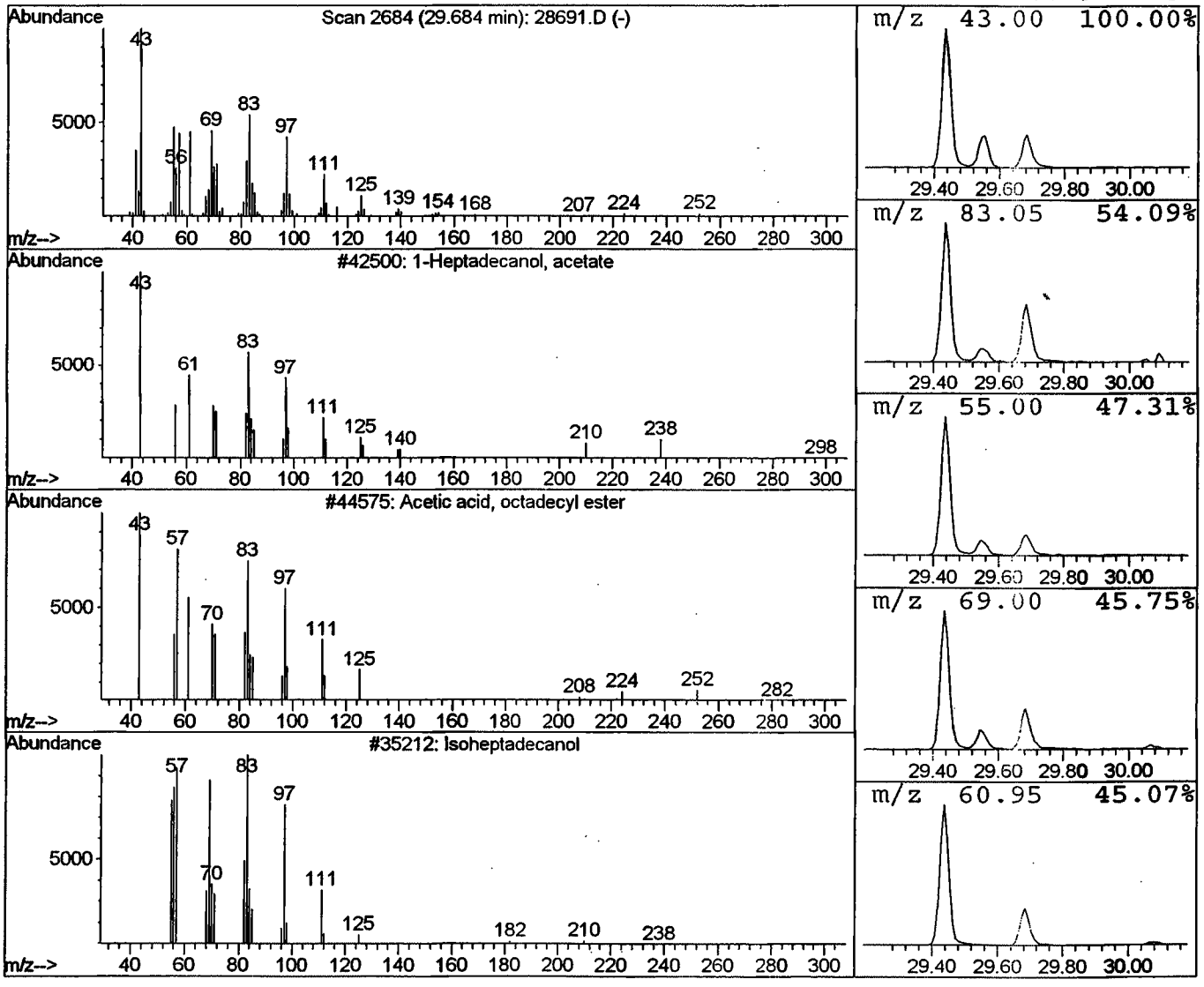
Peak Number 4 1-Heptadecanol, acetate Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
29.68	1.19 ug/l	270660	Chrysene-d12	33.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heptadecanol, acetate	298	C19H38O2	000822-20-8	90
2	Acetic acid, octadecyl ester	312	C20H40O2	000822-23-1	87
3	Isoheptadecanol	256	C17H36O	057289-07-3	72
4	1-Pentadecanol	228	C15H32O	000629-76-5	68



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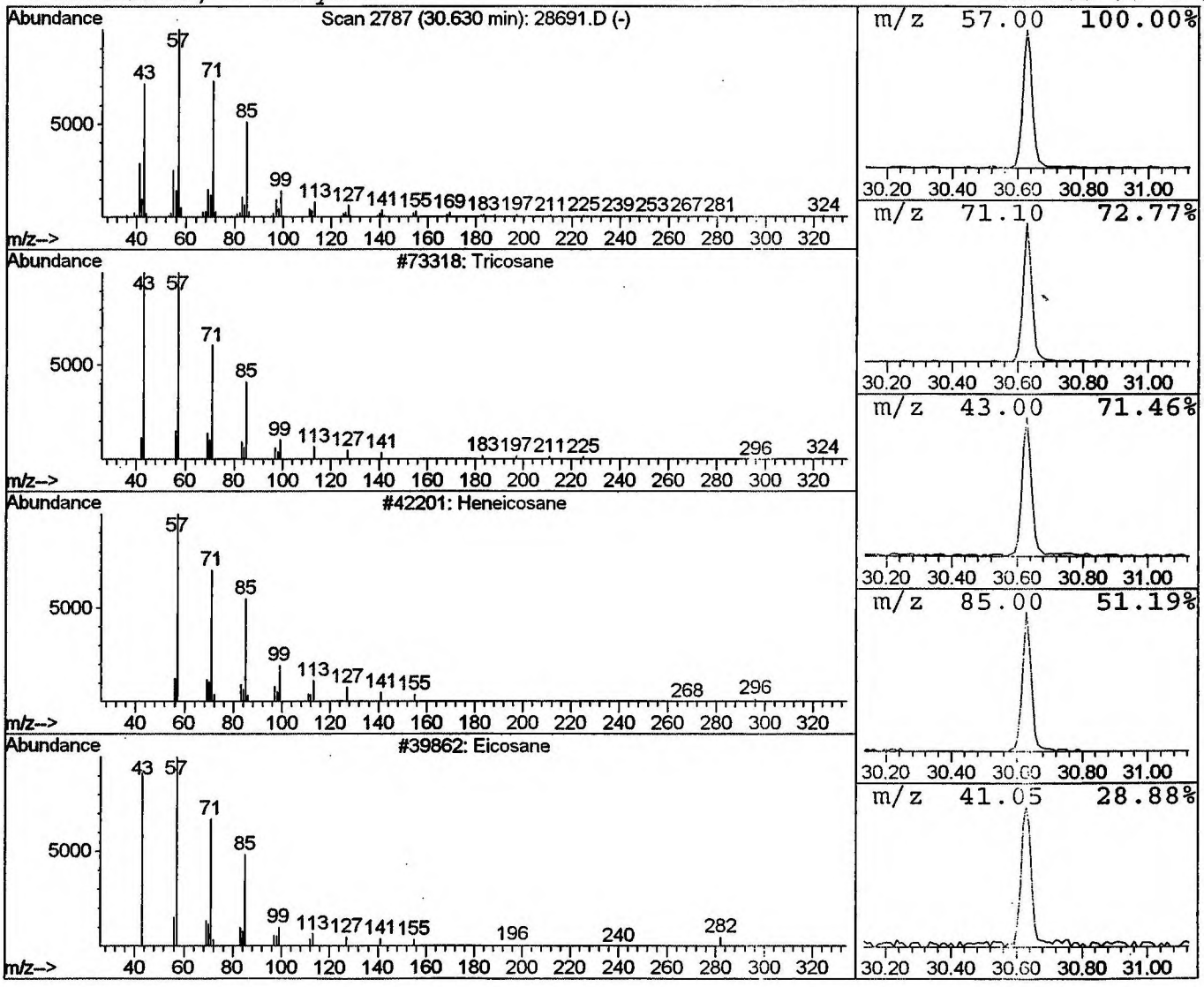
****

Peak Number 5 Tricosane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
30.63	1.11 ug/l	253767	Chrysene-d12	33.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tricosane	324	C23H48	000638-67-5	96
2	Heneicosane	296	C21H44	000629-94-7	91
3	Eicosane	282	C20H42	000112-95-8	91
4	Eicosane, 7-hexyl-	366	C26H54	055333-99-8	91



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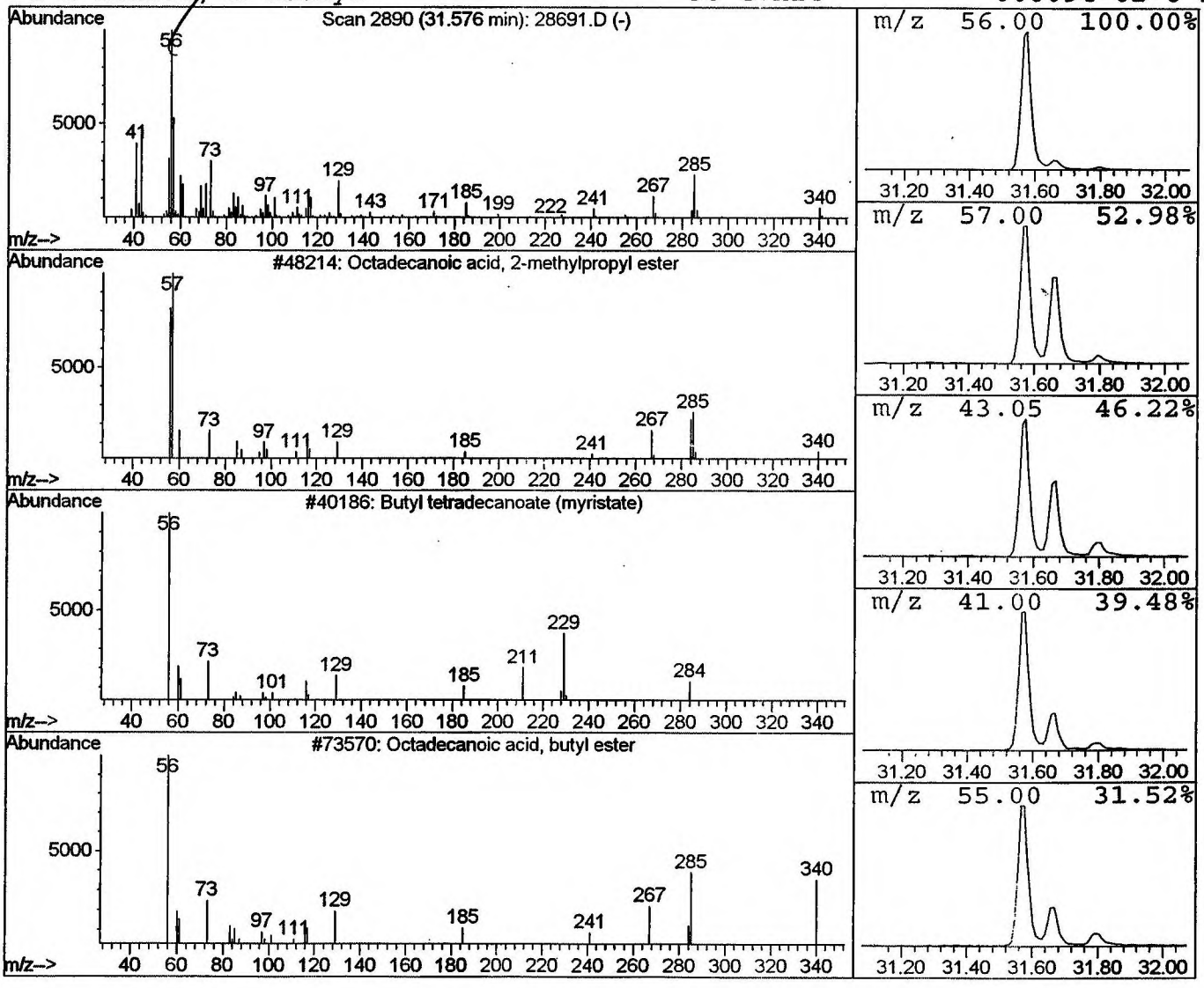
Peak Number 6 Octadecanoic acid, 2-methylpro Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
31.58	6.55 ug/l	1492880	Chrysene-d12	33.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid, 2-methylpropyl e	340	C22H44O2	000646-13-9	66
2	Butyl tetradecanoate (myristate)	284	C18H36O2	000000-00-0	64
3	Octadecanoic acid, butyl ester	340	C22H44O2	000123-95-5	45
4	1-Hexene, 2-methyl-	98	C7H14	006094-02-6	27



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Library : C:\DATABASE\NBS75K.L

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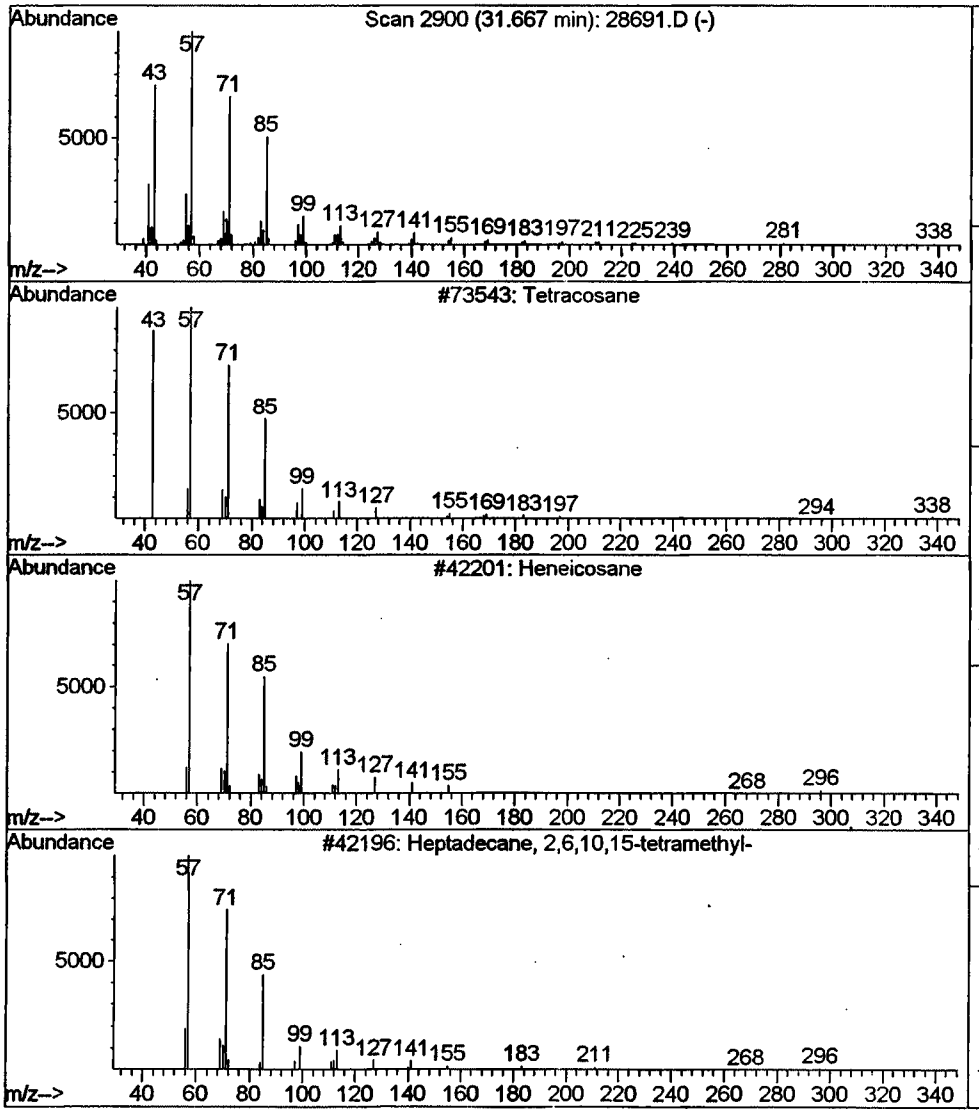
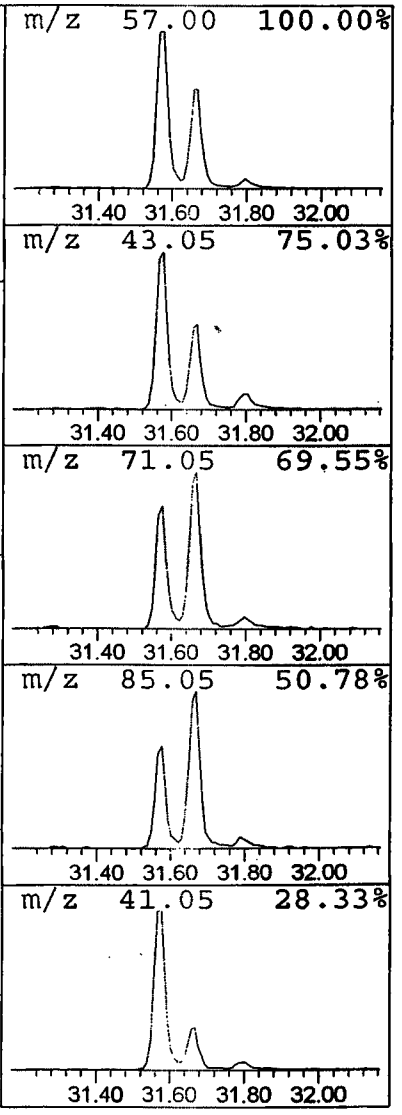
Peak Number 7 Tetracosane — Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
31.67	1.94 ug/l	441012	Chrysene-d12	33.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracosane	338	C24H50	000646-31-1	97
2	Heneicosane	296	C21H44	000629-94-7	91
3	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	91
4	Eicosane	282	C20H42	000112-95-8	91





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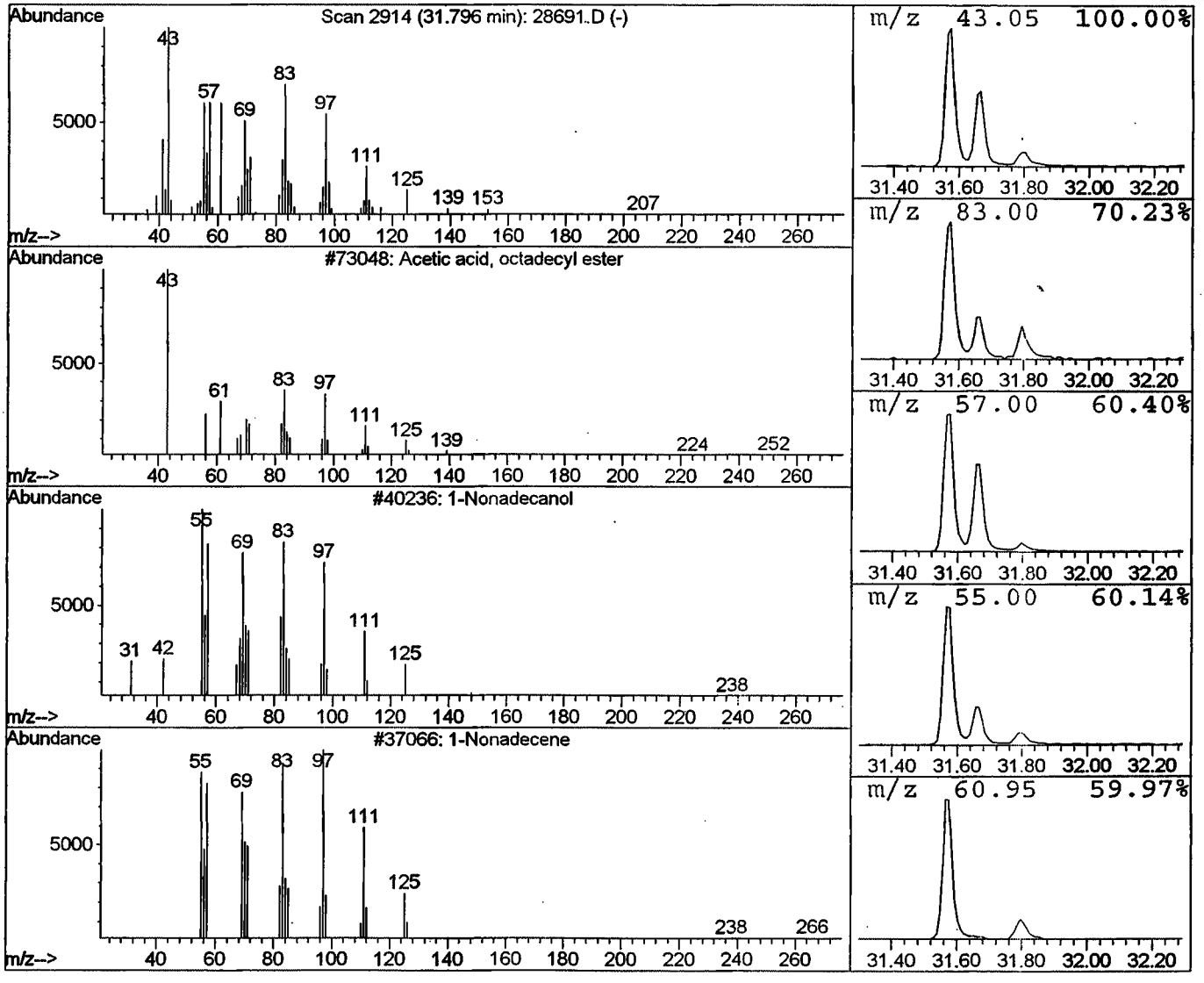
****

Peak Number 8 Acetic acid, octadecyl ester Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
31.80	0.47 ug/l	107718	Chrysene-d12	33.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetic acid, octadecyl ester	312	C20H40O2	000822-23-1	91
2	1-Nonadecanol	284	C19H40O	001454-84-8	76
3	1-Nonadecene	266	C19H38	018435-45-5	64
4	1-Eicosanol	298	C20H42O	000629-96-9	62



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\DEC0401\28691.D
Acq On : 4 Dec 2001 10:08 pm
Sample : gc/ms 11/24
Misc :
MS Integration Params: LSCINT.P

Vial: 11
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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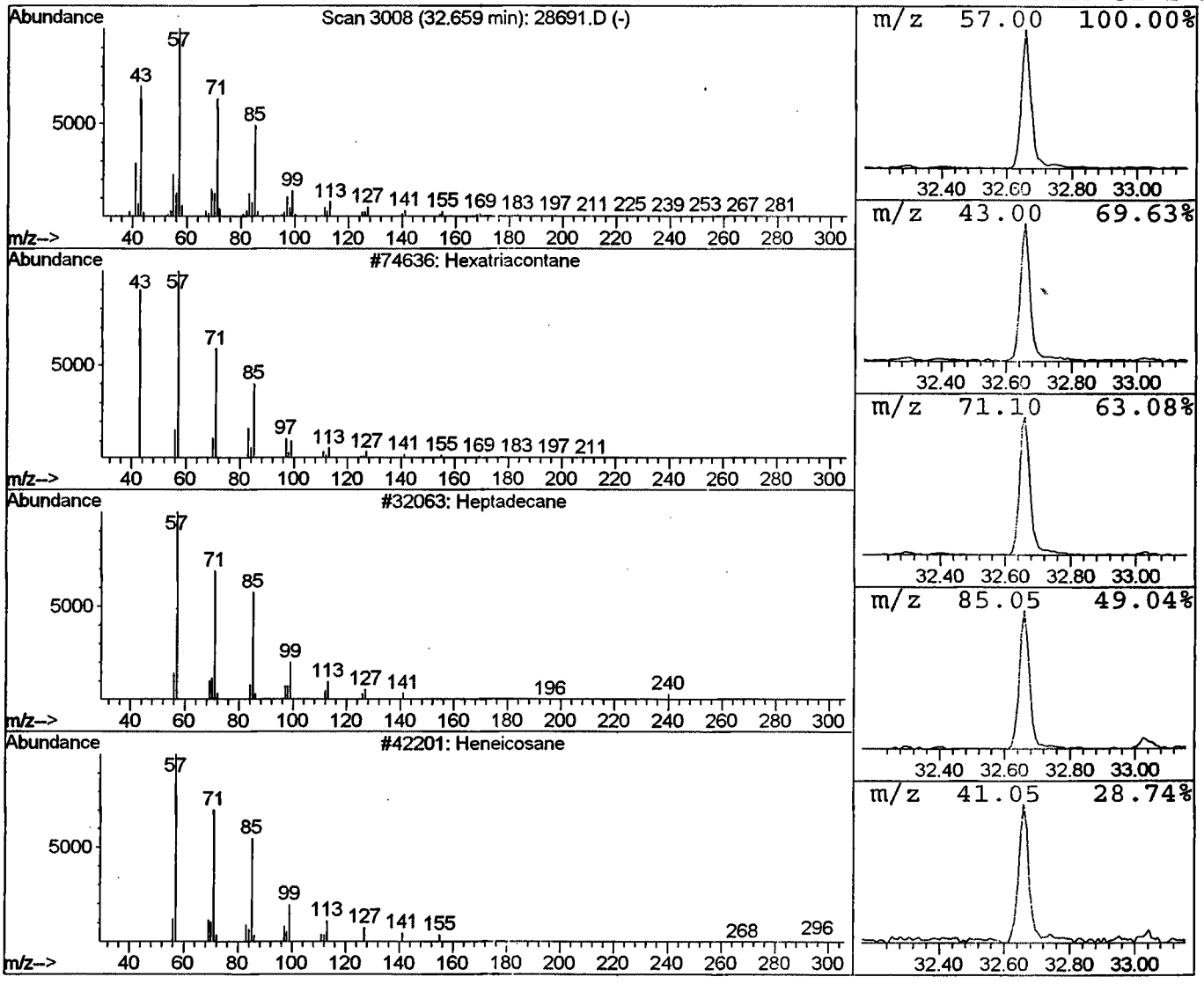
Peak Number 9 Hexatriacontane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
32.66	1.43 ug/l	325553	Chrysene-d12	33.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexatriacontane	507	C36H74	000630-06-8	93
2	Heptadecane	240	C17H36	000629-78-7	91
3	Heneicosane	296	C21H44	000629-94-7	91
4	Tetracosane	338	C24H50	000646-31-1	91



Library Search Compound Report

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

Vial: 11
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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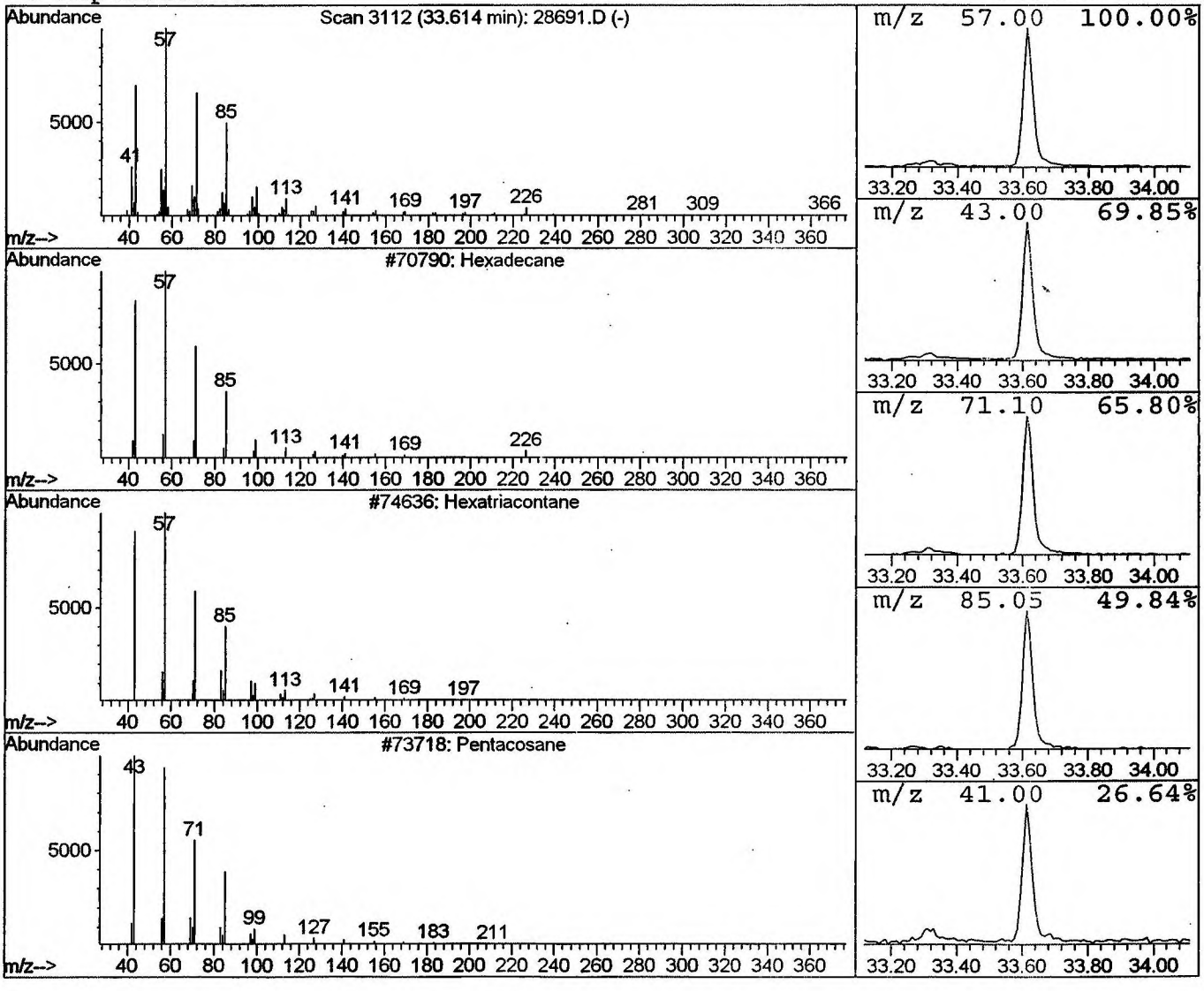
Peak Number 10 Hexadecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
33.61	1.70 ug/l	387370	Chrysene-d12	33.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	96
2	Hexatriacontane	507	C36H74	000630-06-8	93
3	Pentacosane	352	C25H52	000629-99-2	91
4	Heptadecane	240	C17H36	000629-78-7	91



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\DEC0401\28691.D
Acq On : 4 Dec 2001 10:08 pm
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Misc :
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Vial: 11
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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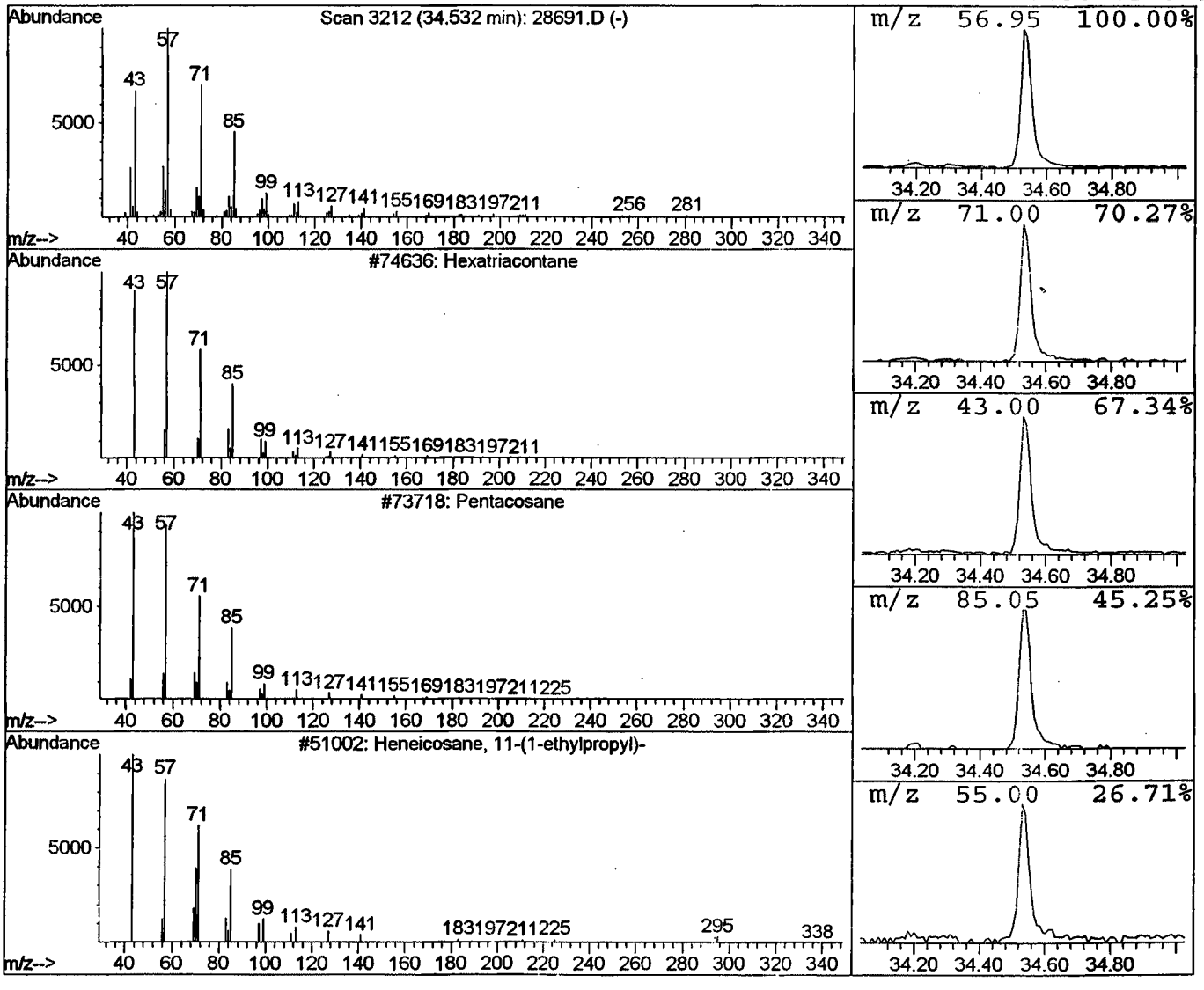
Peak Number 11 Hexatriacontane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
34.53	1.09 ug/l	247833	Chrysene-d12	33.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexatriacontane	507	C36H74	000630-06-8	94
2	Pentacosane	352	C25H52	000629-99-2	91
3	Heneicosane, 11-(1-ethylpropyl)-	366	C26H54	055282-11-6	91
4	Nonacosane	408	C29H60	000630-03-5	91



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\DEC0401\28691.D
Acq On : 4 Dec 2001 10:08 pm
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Misc :
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Vial: 11
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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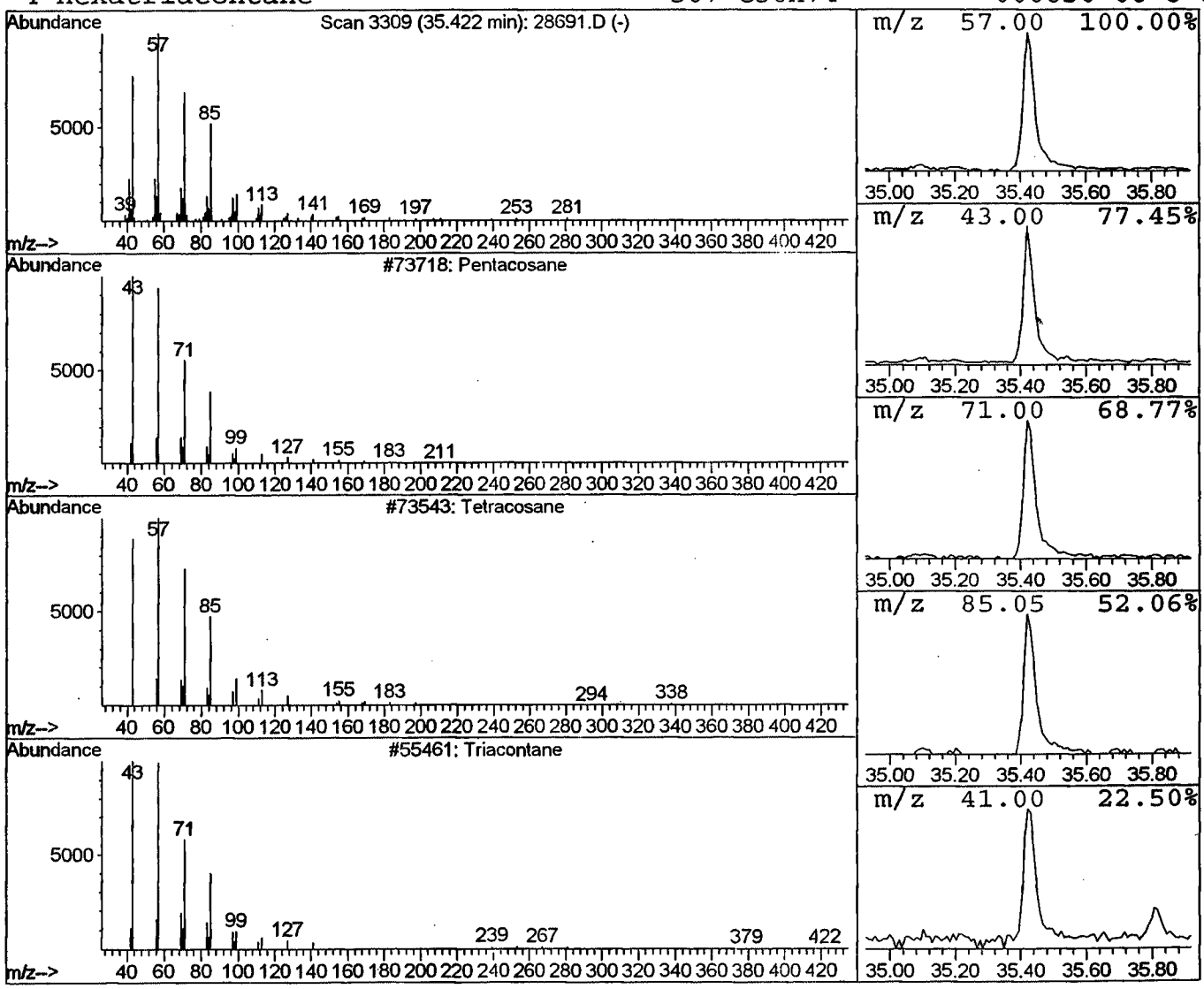
Peak Number 12 Pentacosane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
35.42	1.12 ug/l	212422	Perylene-d12	37.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentacosane	352	C25H52	000629-99-2	91
2	Tetracosane	338	C24H50	000646-31-1	90
3	Triacontane	422	C30H62	000638-68-6	90
4	Hexatriacontane	507	C36H74	000630-06-8	87



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\DEC0401\28691.D
Acq On : 4 Dec 2001 10:08 pm
Sample : gc/ms 11/24
Misc :
MS Integration Params: LSCINT.P

Vial: 11
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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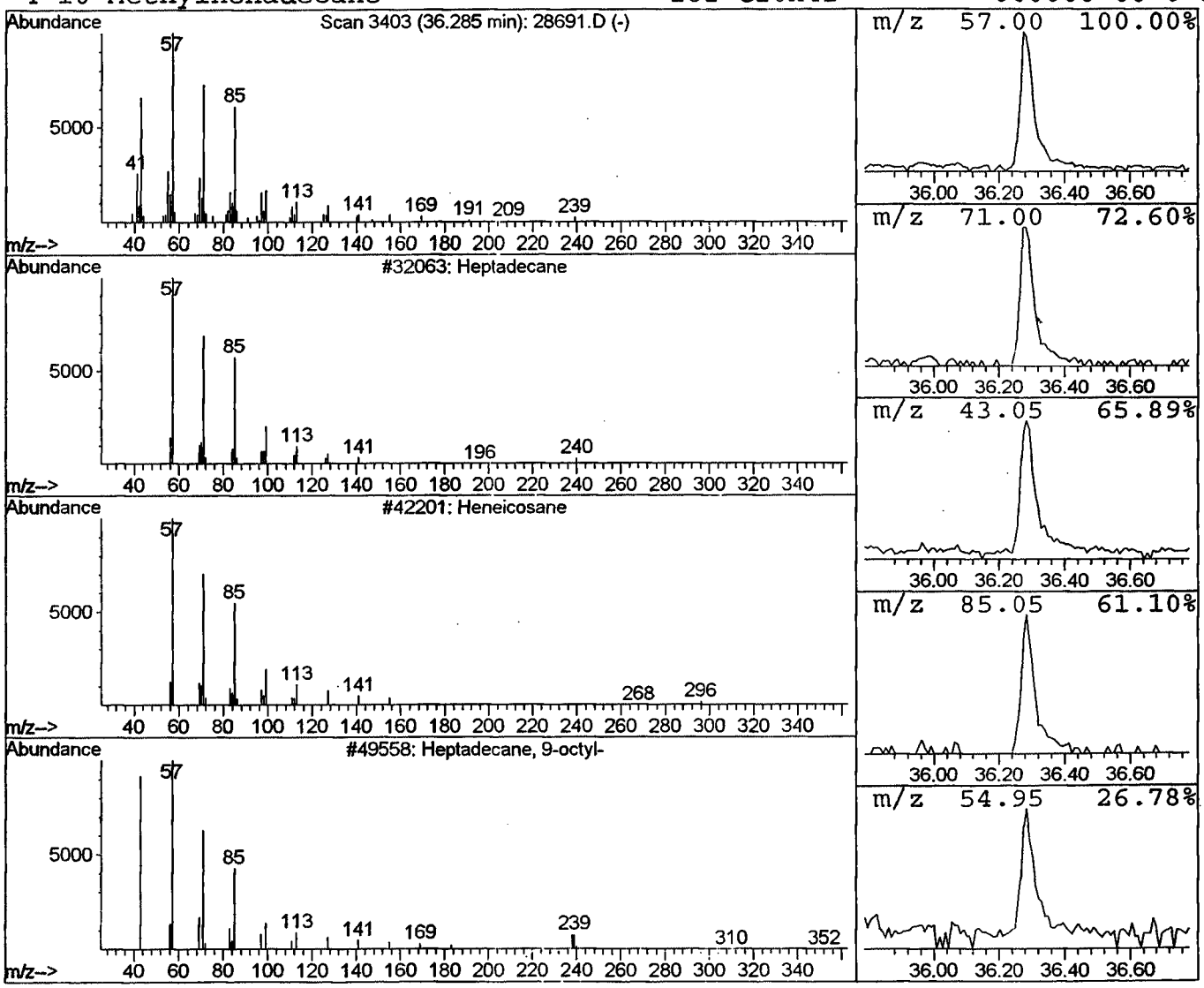
Peak Number 13 Heptadecane — Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
36.29	0.61 ug/l	115981	Perylene-d12	37.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane	240	C17H36	000629-78-7	87
2	Heneicosane	296	C21H44	000629-94-7	87
3	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	86
4	10-Methylnonadecane	282	C20H42	000000-00-0	86



Tentatively Identified Compound (LSC) summary

Operator ID: 209 GALOS Date Acquired: 4 Dec 2001 10:08 pm
Data File: C:\HPCHEM\1\DATA\DEC0401\28691.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
1-Butanamine, 3-meth	7.66	0.4	ug/l	95862	ISTD01	11.71	4560120	20.0
Cyclobutane, 1,1-dim	29.44	9.3	ug/l	2123230	ISTD05	33.04	4558130	20.0
Docosane	29.56	1.2	ug/l	265911	ISTD05	33.04	4558130	20.0
1-Heptadecanol, acet	29.68	1.2	ug/l	270660	ISTD05	33.04	4558130	20.0
Tricosane	30.63	1.1	ug/l	253767	ISTD05	33.04	4558130	20.0
Octadecanoic acid, 2	31.58	6.6	ug/l	1492880	ISTD05	33.04	4558130	20.0
Tetracosane	31.67	1.9	ug/l	441012	ISTD05	33.04	4558130	20.0
Acetic acid, octadec	31.80	0.5	ug/l	107718	ISTD05	33.04	4558130	20.0
Hexatriacontane	32.66	1.4	ug/l	325553	ISTD05	33.04	4558130	20.0
Hexadecane	33.61	1.7	ug/l	387370	ISTD05	33.04	4558130	20.0
Hexatriacontane	34.53	1.1	ug/l	247833	ISTD05	33.04	4558130	20.0
Pentacosane	35.42	1.1	ug/l	212422	ISTD06	37.13	3810050	20.0
Heptadecane	36.29	0.6	ug/l	115981	ISTD06	37.13	3810050	20.0

28691.D GCMS1126.M Thu Dec 06 13:26:57 2001

Turbine grease