Comments for Sample AD28693 - Analysis $GCMS

Westchester Dept. of Labs & Research
User: Vinci, David L
Date: 12-07-2001 Time: 17:41:42

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 106%. 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.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\DEC0401\28693.D Vial: 8
Acq On : 4 Dec 2001 7:12 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 20:01 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	827795	20.00	ug/l	0.02
15) Naphthalene-d8	15.31	136	3142900	20.00	ug/l	0.00
26) Acenaphthene-d10	20.58	164	1521128	20.00	ug/l	0.00
42) Phenanthrene-d10	25.01	188	2081504	20.00	ug/l	0.02
53) Chrysene-d12	33.03	240	1241363	20.00	ug/l	0.00
59) Perylene-d12	37.13	264	812028	20.00	ug/l	0.00
System Monitoring Compounds						
52) 2,4-DDD	30.08	235	131562	5.31	ug/mL	0.00
Spiked Amount 5.000			Recovery = 106.20%			
Target Compounds						Qvalue
2) Pyridine	0.00	79	0	N.D.		
3) N-nitroso-dimethyl amine	5.25	74	102	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	296	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	20.13	165	100	N.D.		

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

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Title : 209 625/TCLP calibration table
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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	21.16	65	111	N.D.	
37)	2,4-Dinitrotoluene	21.15	165	175	N.D.	
38)	Diethylphthalate	22.10	149	928	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	788	N.D.	
49)	Anthracene	25.01	178	788	N.D.	
50)	Di-n-butylphthalate	27.01	149	24943	N.D.	
51)	Fluoranthene	0.00	202	0	N.D.	
54)	Pyrene	0.00	202	0	N.D.	
55)	Butylbenzylphthalate	31.57	149	618	N.D.	
56)	Benzo(a)anthracene	33.04	228	3082	N.D.	
57)	Bis(2-ethylhexyl)phthalate	33.32	149	4387	N.D.	
58)	Chrysene	33.04	228	3082	N.D.	
60)	Di-n-Octylphthalate	35.05	149	179	N.D.	
61)	Benzo(b)fluoranthene	0.00	252	0	N.D.	
62)	Benzo(k)fluoranthene	0.00	252	0	N.D.	
63)	Benzo(a)pyrene	37.13	252	3048	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

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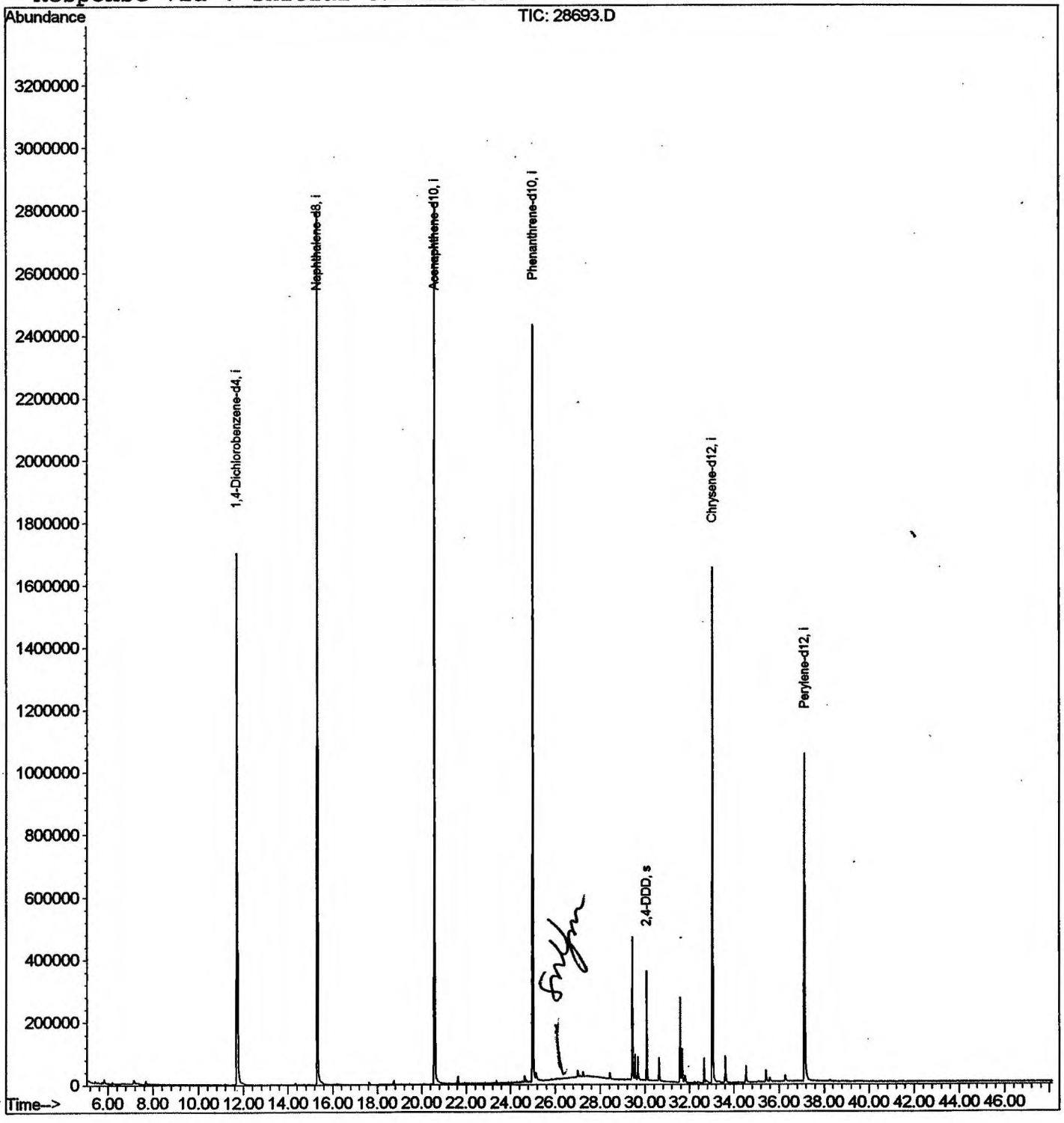
MS Integration Params: RTEINT.P
Quant Time: Dec 4 20:01 2001

Vial: 8
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\28693.D Vial: 8
Acq On : 4 Dec 2001 7:12 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

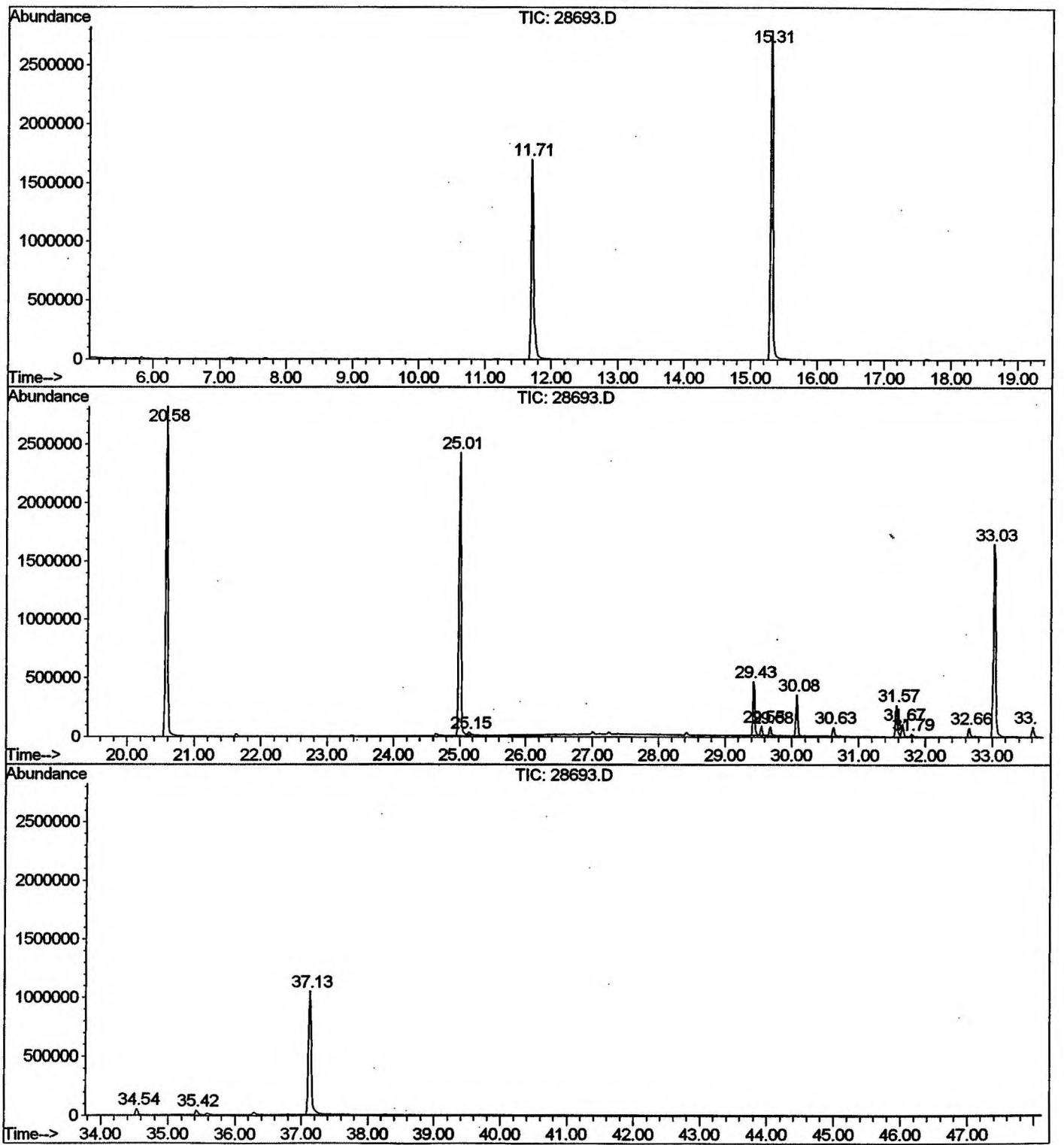
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	11.707	721	726	746	rBV	1702204	4467597	72.56%	13.729%
2	15.315	1113	1119	1137	rBV	2795097	5880763	95.51%	18.072%
3	20.584	1687	1693	1716	rBV	2822273	6156907	100.00%	18.921%
4	25.009	2168	2175	2186	rBV2	2423429	5498759	89.31%	16.898%
5	25.147	2186	2190	2200	rVB2	25091	80106	1.30%	0.246%
6	29.434	2652	2657	2665	rBV	456543	919694	14.94%	2.826%
7	29.554	2665	2670	2677	rVV	81371	157669	2.56%	0.485%
8	29.682	2679	2684	2694	rVB	73935	160636	2.61%	0.494%
9	30.077	2721	2727	2733	rBV	349786	695492	11.30%	2.137%
10	30.628	2782	2787	2795	rVB	75411	156363	2.54%	0.481%
11	31.573	2884	2890	2896	rBV	270073	571202	9.28%	1.755%
12	31.665	2896	2900	2910	rVV	109382	247218	4.02%	0.760%
13	31.794	2910	2914	2923	rVB2	23730	63109	1.03%	0.194%
14	32.657	3003	3008	3014	rBV	79772	176466	2.87%	0.542%
15	33.033	3043	3049	3066	rBV2	1648858	3859111	62.68%	11.859%
16	33.611	3104	3112	3123	rBV	86260	212745	3.46%	0.654%
17	34.539	3206	3213	3223	rBV2	53051	135652	2.20%	0.417%
18	35.420	3304	3309	3317	rBV2	38157	102349	1.66%	0.315%
19	37.127	3488	3495	3510	rBV2	1045715	2999048	48.71%	9.216%

Sum of corrected areas: 32540886

28693.D GCMS1126.M Thu Dec 06 15:19:28 2001

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\DEC0401\28693.D
Operator : 209 GALOS
Acquired : 4 Dec 2001 7:12 pm using AcqMethod GCMS1126
Instrument : GC/MS 209
Sample Name: gc/ms 11/24
Misc Info :
Vial Number: 8
Quant File :GCMS1126.RES (RTE Integrator)



28693.D GCMS1126.M Thu Dec 06 15:19:31 2001

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\DEC0401\28693.D
Acq On : 4 Dec 2001 7:12 pm
Sample : gc/ms 11/24
Misc :
MS Integration Params: LSCINT.P

Vial: 8
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

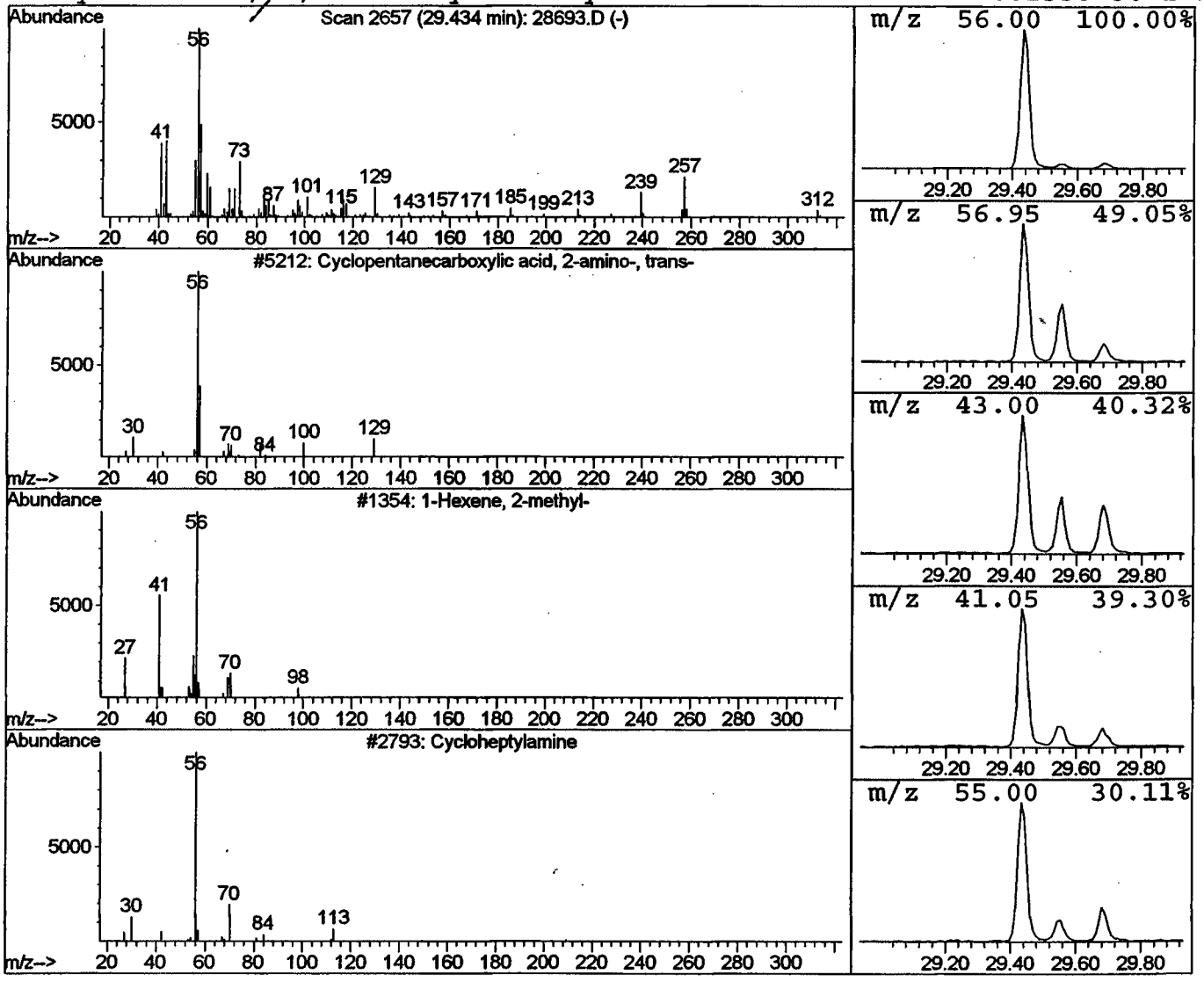
Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 Cyclopentanecarboxylic acid, 2 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
29.43	4.77 ug/l	919694	Chrysene-d12	33.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentanecarboxylic acid, 2-amin	129	C6H11NO2	040482-05-1	35
2	1-Hexene, 2-methyl-	98	C7H14	006094-02-6	27
3	Cycloheptylamine	113	C7H15N	005452-35-7	27
4	Cyclobutane, 1,1-dimethyl-2-octyl-	196	C14H28	062338-30-1	27



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Acq On : 4 Dec 2001 7:12 pm
Sample : gc/ms 11/24
Misc :
MS Integration Params: LSCINT.P

Vial: 8
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
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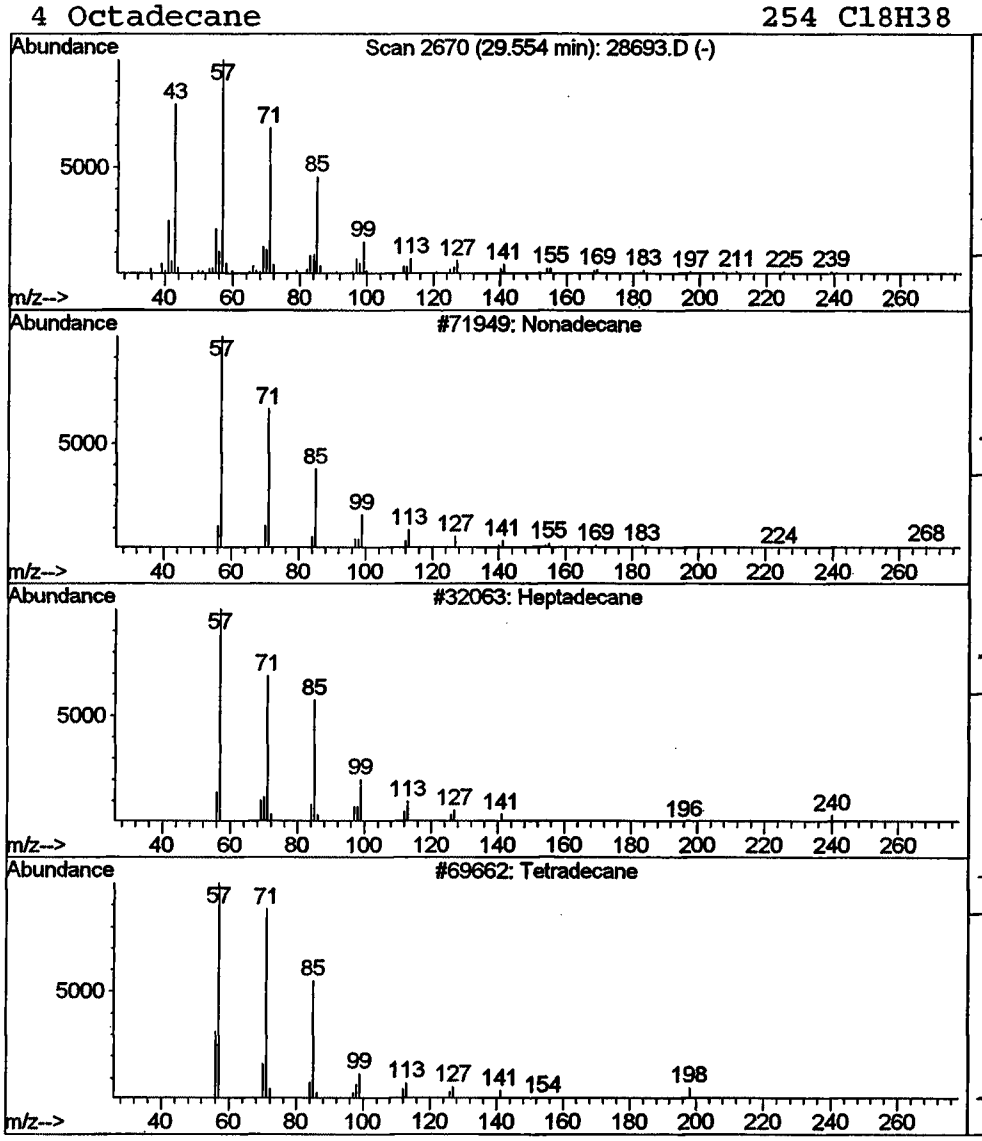
Peak Number 2 Nonadecane — Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
29.55	0.82 ug/l	157669	Chrysene-d12	33.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	91
2	Heptadecane	240	C17H36	000629-78-7	91
3	Tetradecane	198	C14H30	000629-59-4	91
4	Octadecane	254	C18H38	000593-45-3	91



Library Search Compound Report

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Acq On : 4 Dec 2001 7:12 pm
Sample : gc/ms 11/24
Misc :
MS Integration Params: LSCINT.P

Vial: 8
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

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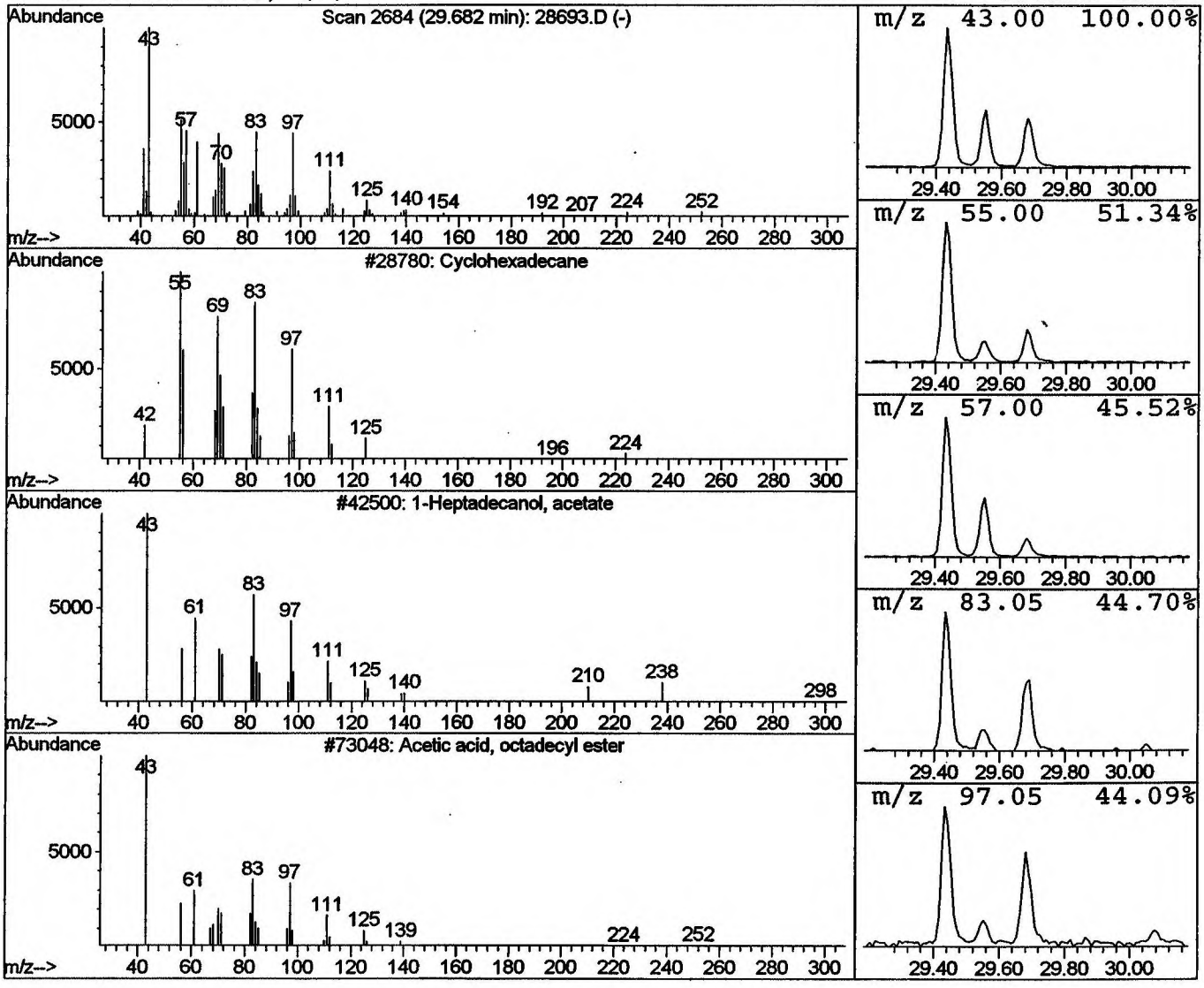
Peak Number 3 Cyclohexadecane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
29.68	0.83 ug/l	160636	Chrysene-d12	33.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexadecane	224	C16H32	000295-65-8	91
2	1-Heptadecanol, acetate	298	C19H38O2	000822-20-8	91
3	Acetic acid, octadecyl ester	312	C20H40O2	000822-23-1	90
4	3-Hexadecene, (Z)-	224	C16H32	034303-81-6	83



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Vial: 8
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
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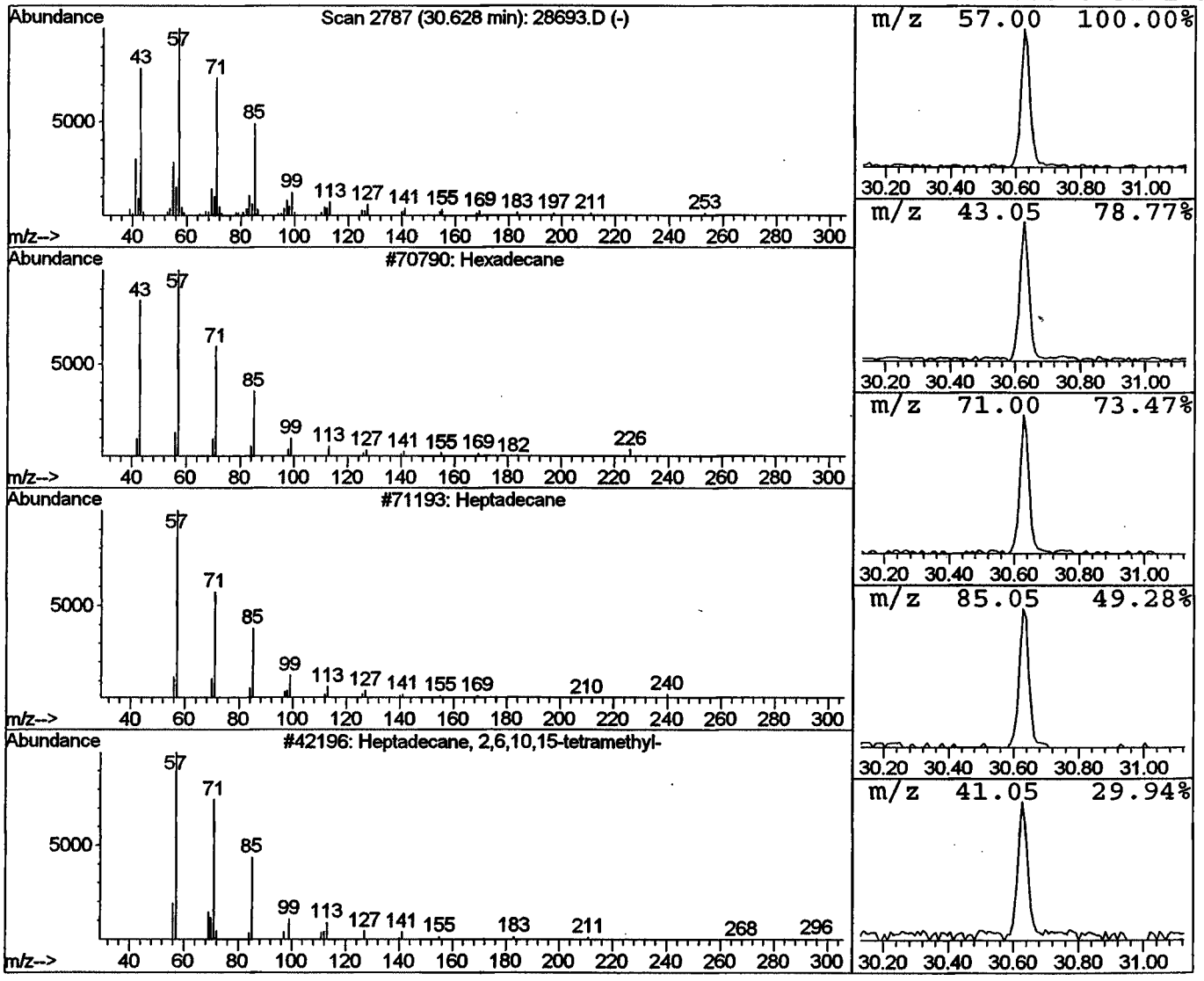
Peak Number 4 Hexadecane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
30.63	0.81 ug/l	156363	Chrysene-d12	33.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	91
2	Heptadecane	240	C17H36	000629-78-7	91
3	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	91
4	Tetracosane	338	C24H50	000646-31-1	90



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Vial: 8
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

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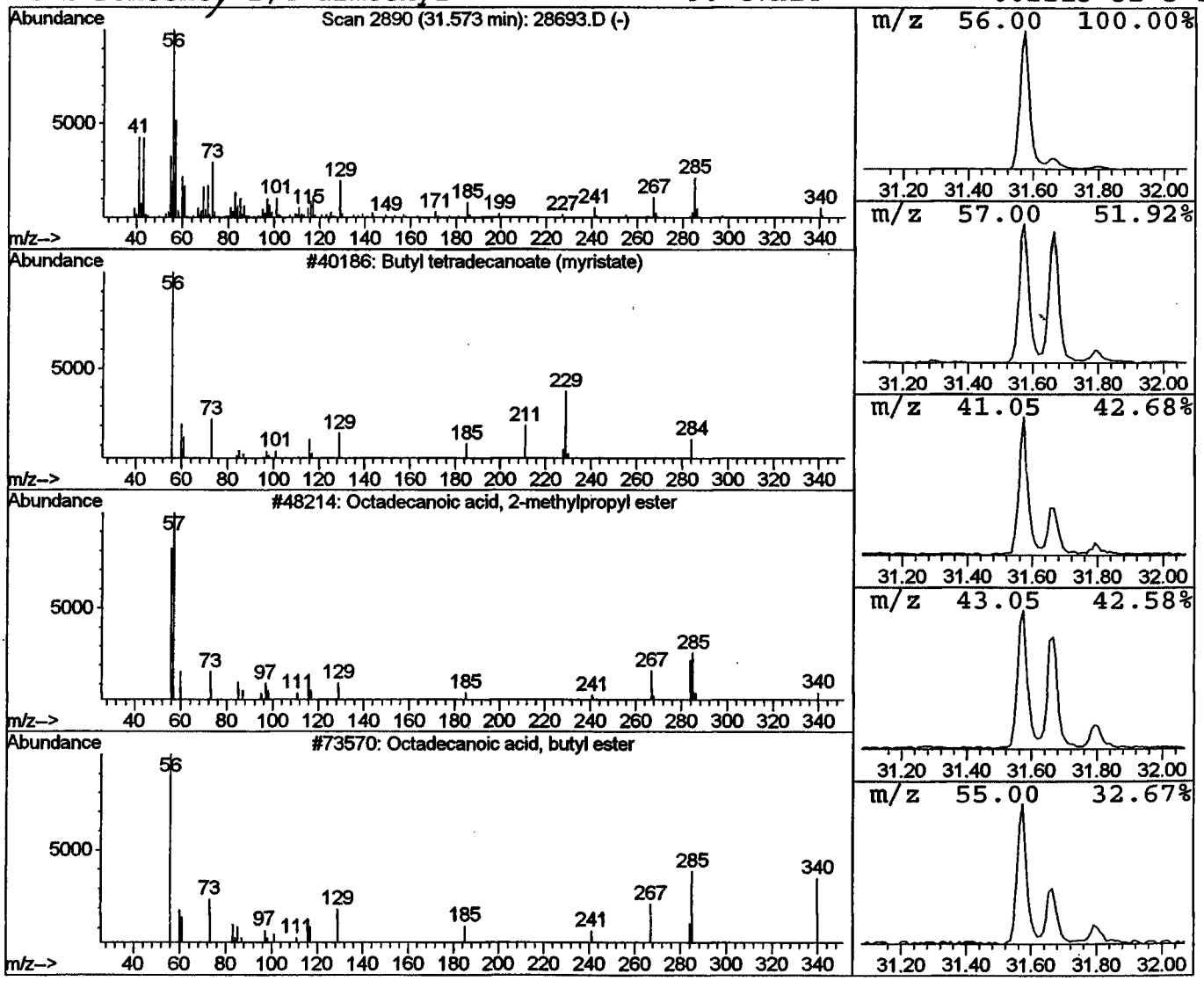
Peak Number 5 Butyl tetradecanoate (myristat Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
31.57	2.96 ug/l	571202	Chrysene-d12	33.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butyl tetradecanoate (myristate)	284	C18H36O2	000000-00-0	72
2	Octadecanoic acid, 2-methylpropyl e	340	C22H44O2	000646-13-9	62
3	Octadecanoic acid, butyl ester	340	C22H44O2	000123-95-5	37
4	1-Pentene, 2,4-dimethyl-	98	C7H14	002213-32-3	27



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Misc :
MS Integration Params: LSCINT.P

Vial: 8
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

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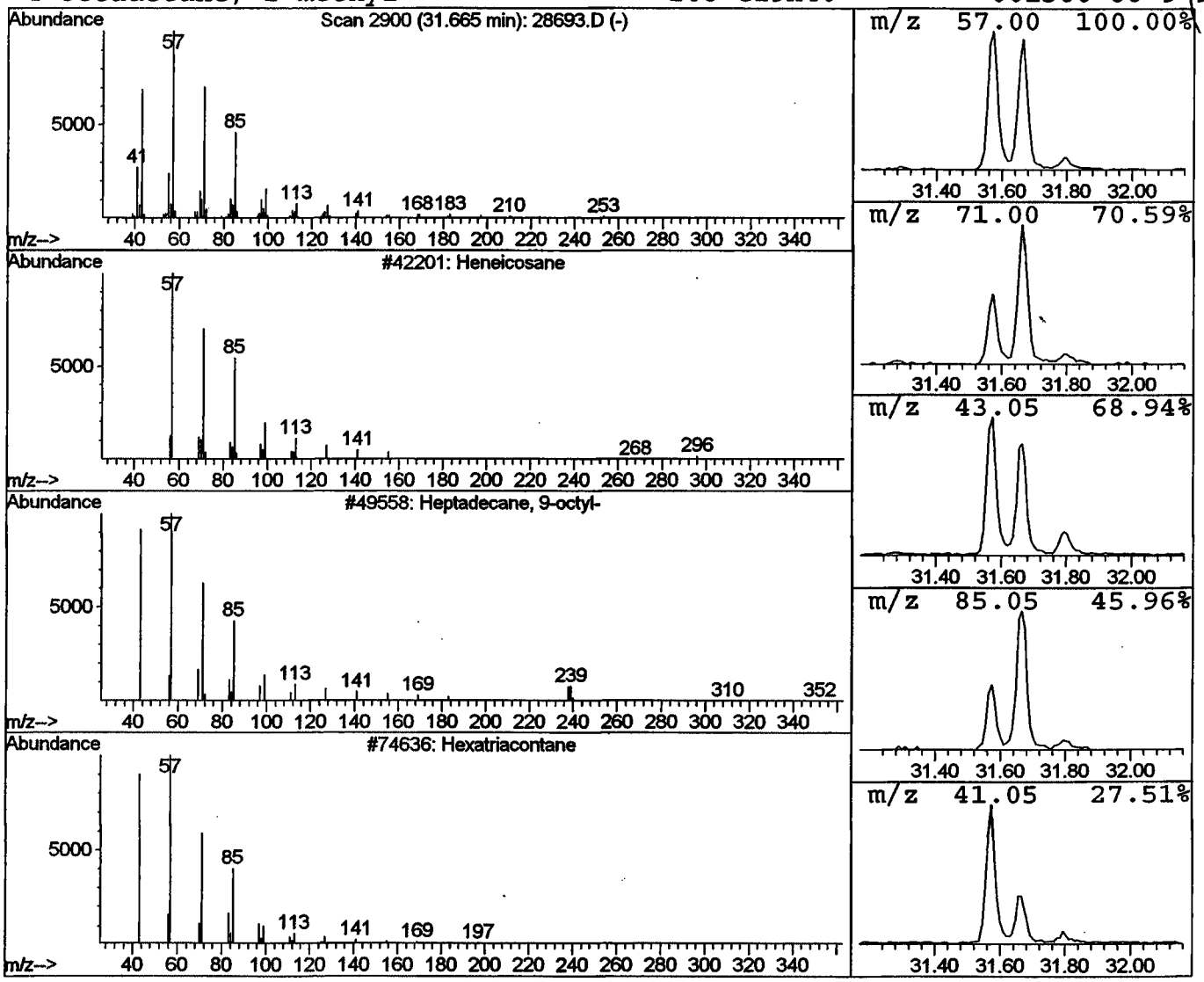
Peak Number 6 Heneicosane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
31.67	1.28 ug/l	247218	Chrysene-d12	33.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	91
2	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	91
3	Hexatriacontane	507	C36H74	000630-06-8	91
4	Octadecane, 2-methyl-	268	C19H40	001560-88-9	91



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Vial: 8
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Inst : GC/MS 209
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
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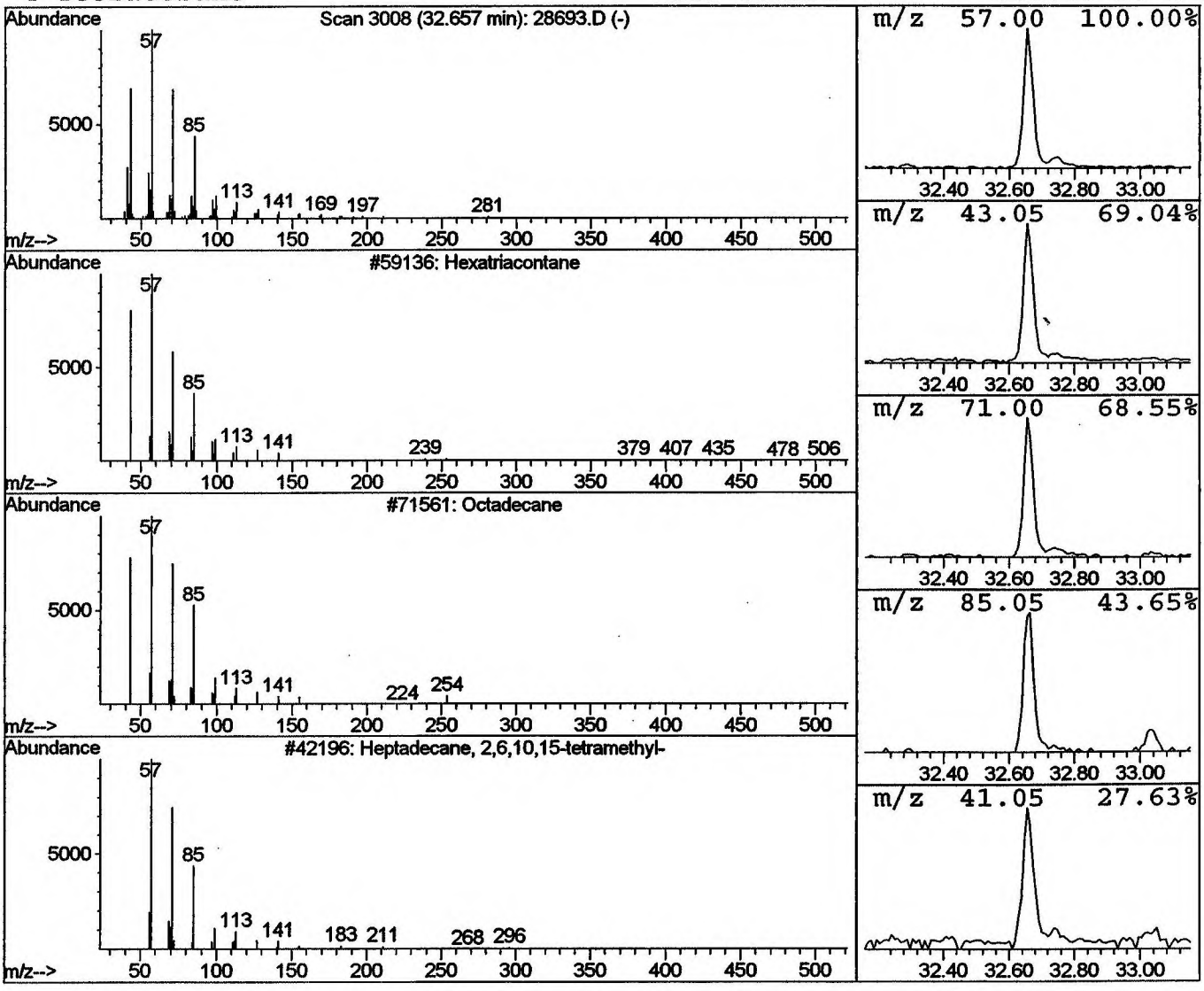
Peak Number 7 Hexatriacontane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
32.66	0.91 ug/l	176466	Chrysene-d12	33.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexatriacontane	507	C36H74	000630-06-8	91
2	Octadecane	254	C18H38	000593-45-3	91
3	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	91
4	Tetracosane	338	C24H50	000646-31-1	90



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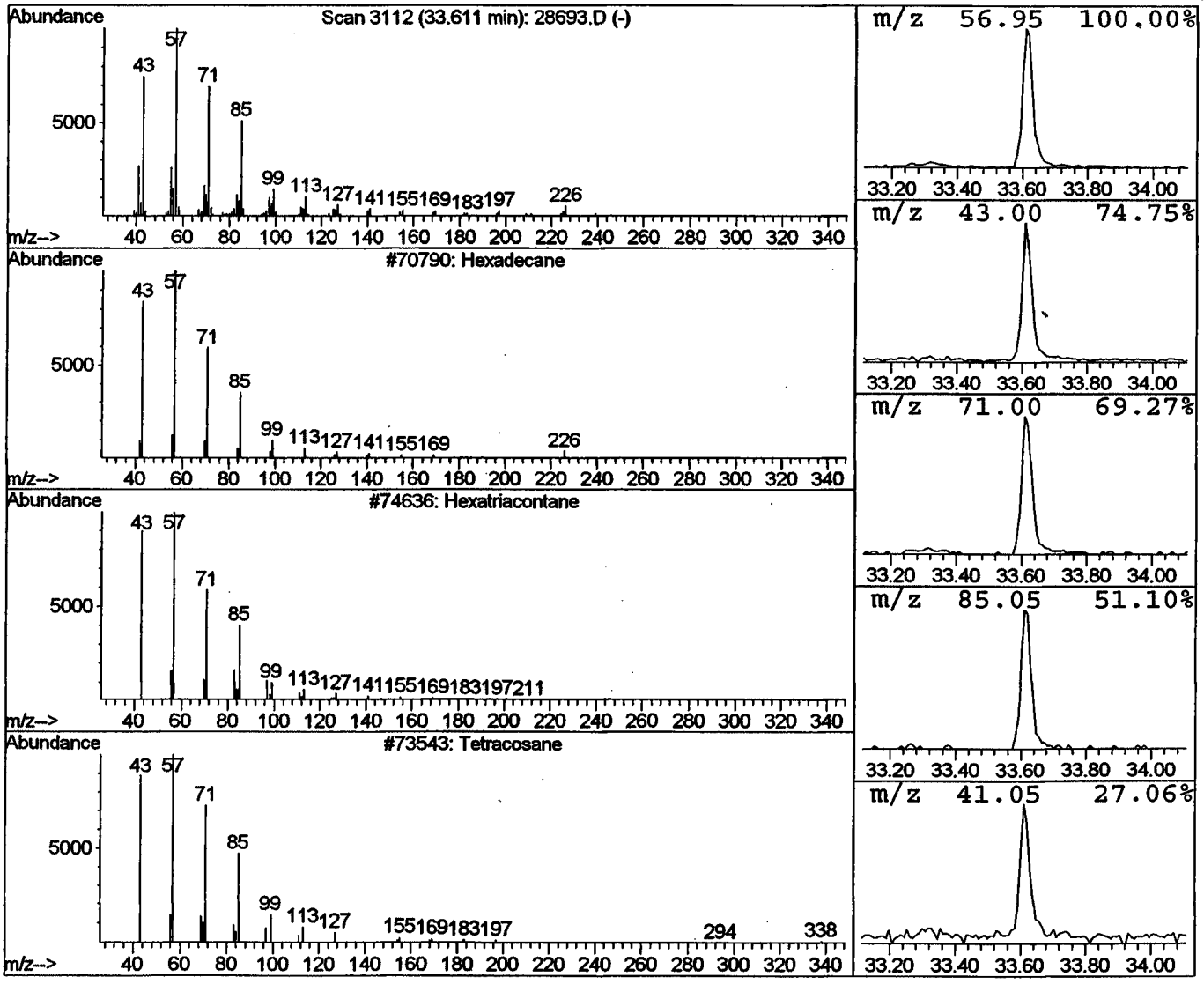
Library : C:\DATABASE\NBS75K.L

****

Peak Number 8 Hexadecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
33.61	1.10 ug/l	212745	Chrysene-d12	33.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	93
2	Hexatriacontane	507	C36H74	000630-06-8	90
3	Tetracosane	338	C24H50	000646-31-1	90
4	Heneicosane	296	C21H44	000629-94-7	90



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MS Integration Params: LSCINT.P

Vial: 8
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

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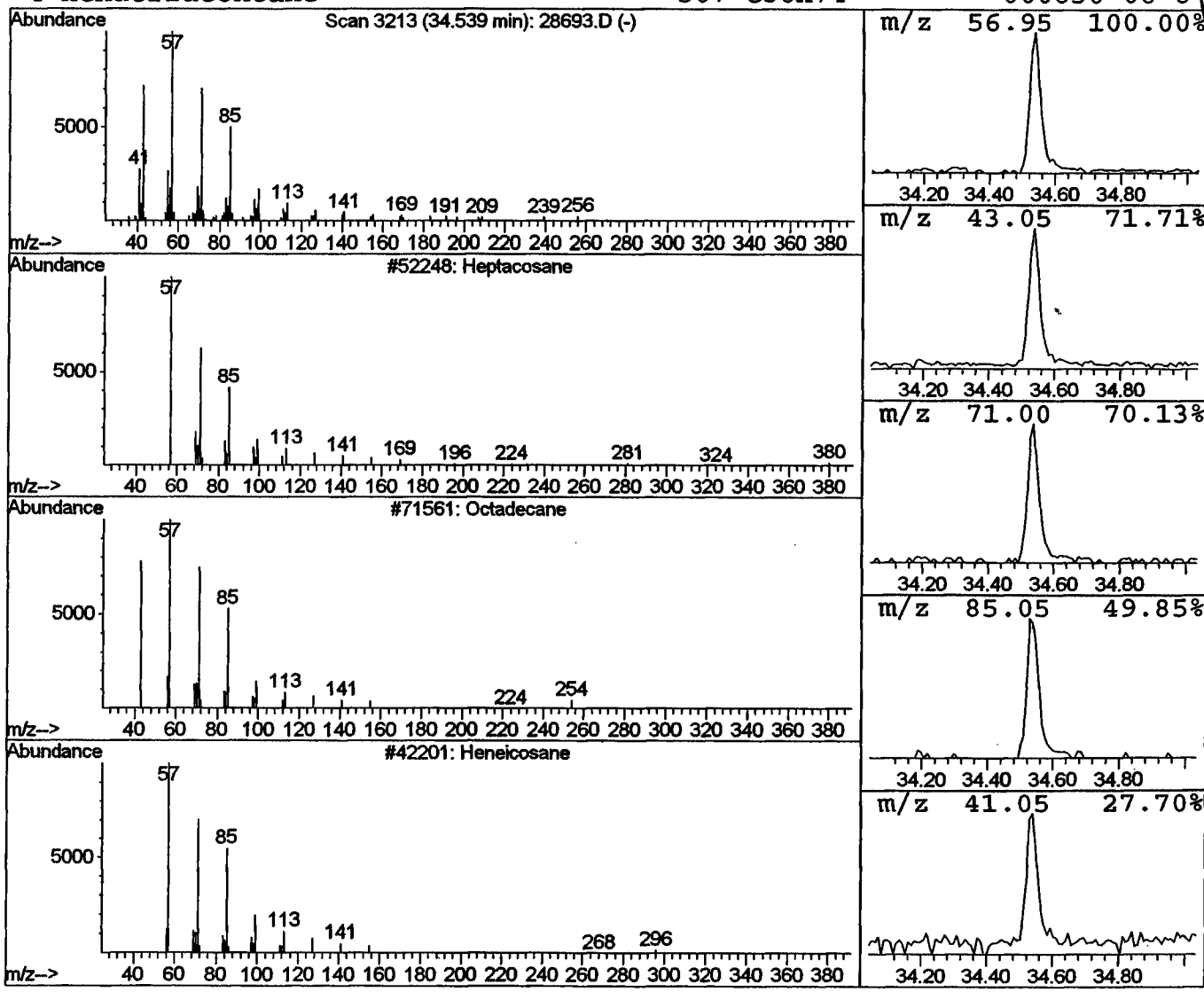
Library : C:\DATABASE\NBS75K.L

****

Peak Number 9 Heptacosane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
34.54	0.70 ug/l	135652	Chrysene-d12	33.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptacosane	380	C27H56	000593-49-7	91
2	Octadecane	254	C18H38	000593-45-3	91
3	Heneicosane	296	C21H44	000629-94-7	91
4	Hexatriacontane	507	C36H74	000630-06-8	91



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\DEC0401\28693.D
Acq On : 4 Dec 2001 7:12 pm
Sample : gc/ms 11/24
Misc :
MS Integration Params: LSCINT.P

Vial: 8
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

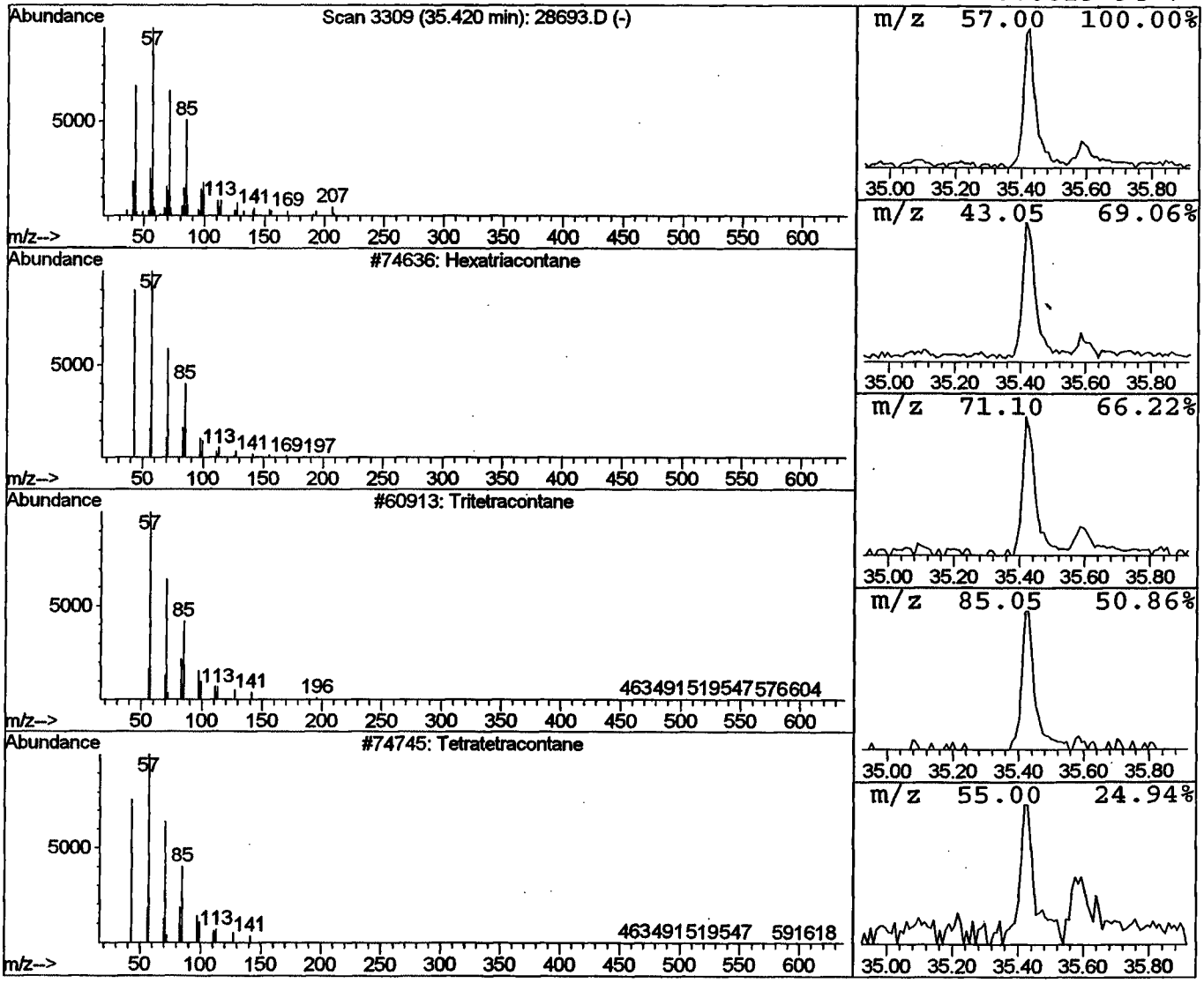
Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Library : C:\DATABASE\NBS75K.L

****

Peak Number 10 Hexatriacontane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
35.42	0.68 ug/l	102349	Perylene-d12	37.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexatriacontane	507	C36H74	000630-06-8	91
2	Tritetracontane	605	C43H88	007098-21-7	90
3	Tetratetracontane	619	C44H90	007098-22-8	90
4	Heneicosane	296	C21H44	000629-94-7	87



Tentatively Identified Compound (LSC) summary

Operator ID: 209 GALOS Date Acquired: 4 Dec 2001 7:12 pm
Data File: C:\HPCHEM\1\DATA\DEC0401\28693.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
~~Cyclo~~pentanecarboxyl	29.43	4.8	ug/l	919694	ISTD05	33.03	3859110	20.0
Nonadecane	29.55	0.8	ug/l	157669	ISTD05	33.03	3859110	20.0
Cyclohexadecane	29.68	0.8	ug/l	160636	ISTD05	33.03	3859110	20.0
Hexadecane	30.63	0.8	ug/l	156363	ISTD05	33.03	3859110	20.0
~~Butyl tetrade~~canoate	31.57	3.0	ug/l	571202	ISTD05	33.03	3859110	20.0
Heneicosane	31.67	1.3	ug/l	247218	ISTD05	33.03	3859110	20.0
Hexatriacontane	32.66	0.9	ug/l	176466	ISTD05	33.03	3859110	20.0
Hexadecane	33.61	1.1	ug/l	212745	ISTD05	33.03	3859110	20.0
Heptacosane	34.54	0.7	ug/l	135652	ISTD05	33.03	3859110	20.0
Hexatriacontane	35.42	0.7	ug/l	102349	ISTD06	37.13	2999050	20.0

28693.D GCMS1126.M Thu Dec 06 15:19:54 2001

Turbo vap grease