Comments for Sample AD28692 - Analysis $GCMS

Westchester Dept. of Labs & Research
User: Vinci, David L
Date: 12-07-2001 Time: 17:03:16

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 0.28 ug/L and bis(2-Ethylhexyl)phthalate at an estimated level of 0.38 ug/L. The recovery for the Surrogate Standard in this sample was 105%. 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\28692.D Vial: 19
Acq On : 5 Dec 2001 5:56 am Operator: 209 GALOS
Sample : gc/ms 11/24 Inst : GC/MS 209
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 5 6:45 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	792056	20.00	ug/l	0.01
15) Naphthalene-d8	15.32	136	2970409	20.00	ug/l	0.01
26) Acenaphthene-d10	20.59	164	1406554	20.00	ug/l	0.01
42) Phenanthrene-d10	25.00	188	1927796	20.00	ug/l	0.01
53) Chrysene-d12	33.04	240	1132502	20.00	ug/l	0.00
59) Perylene-d12	37.13	264	722863	20.00	ug/l	0.01
System Monitoring Compounds						
52) 2,4-DDD	30.08	235	120807	5.26	ug/mL	0.01
Spiked Amount 5.000			Recovery = 105.20%			
Target Compounds						Qvalue
2) Pyridine	0.00	79	0	N.D.		
3) N-nitroso-dimethyl amine	5.16	74	793	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	759	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	21.28	65	279	N.D.	
37)	2,4-Dinitrotoluene	21.10	165	209	N.D.	
38)	Diethylphthalate	22.10	149	1490	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	25.08	178	110	N.D.	
49)	Anthracene	25.08	178	110	N.D.	
50)	Di-n-butylphthalate	27.01	149	38313	0.28 ug/l #	98
51)	Fluoranthene	0.00	202	0	N.D.	
54)	Pyrene	0.00	202	0	N.D.	
55)	Butylbenzylphthalate	31.51	149	802	N.D.	
56)	Benzo(a)anthracene	33.04	228	2621	N.D.	
57)	Bis(2-ethylhexyl)phthalate	33.31	149	26229	0.38 ug/l	99
58)	Chrysene	33.04	228	2621	N.D.	
60)	Di-n-Octylphthalate	0.00	149	0	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	37.12	252	2904	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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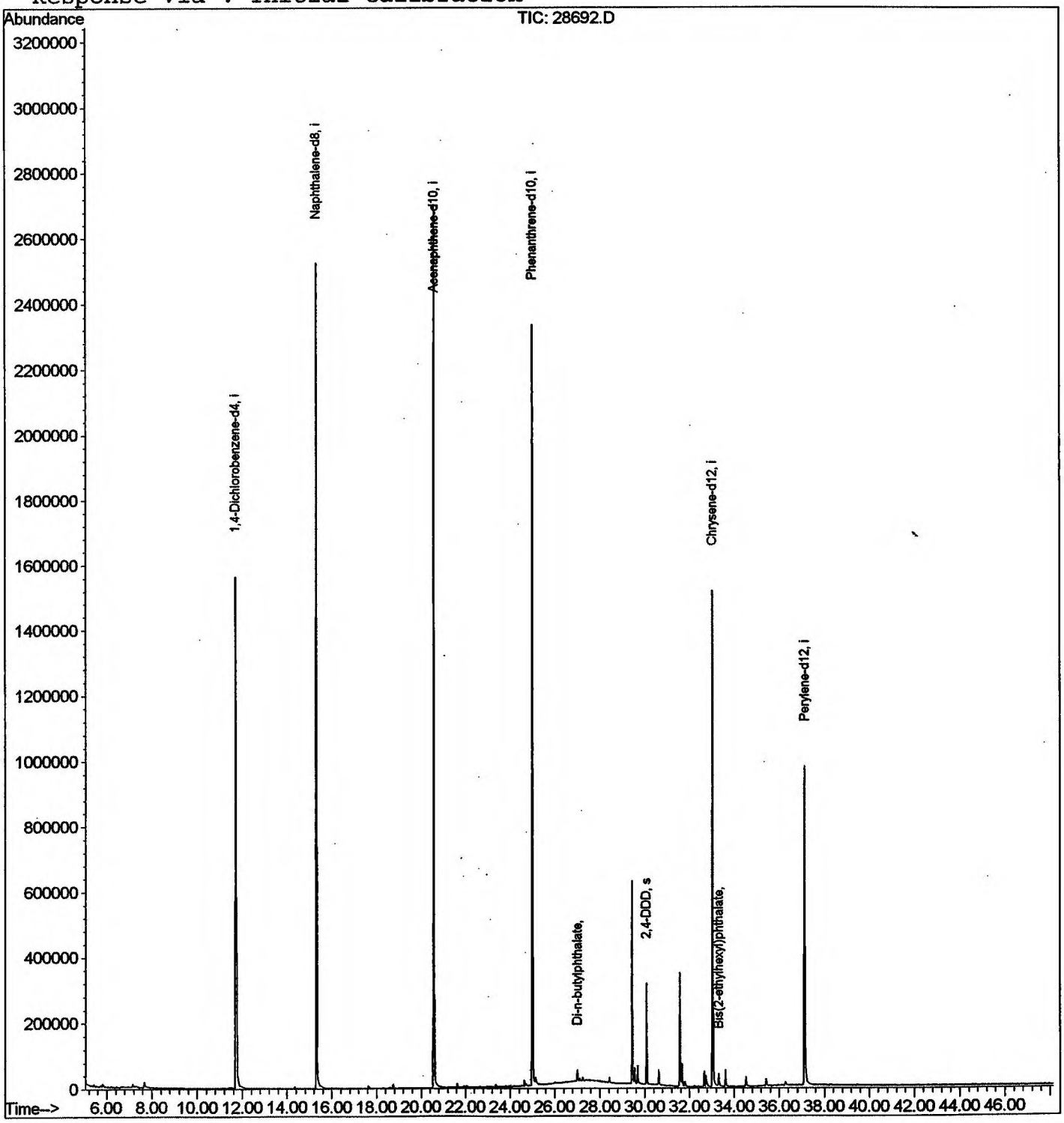
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 5 6:45 2001

Vial: 19
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\28692.D Vial: 19
Acq On : 5 Dec 2001 5:56 am 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

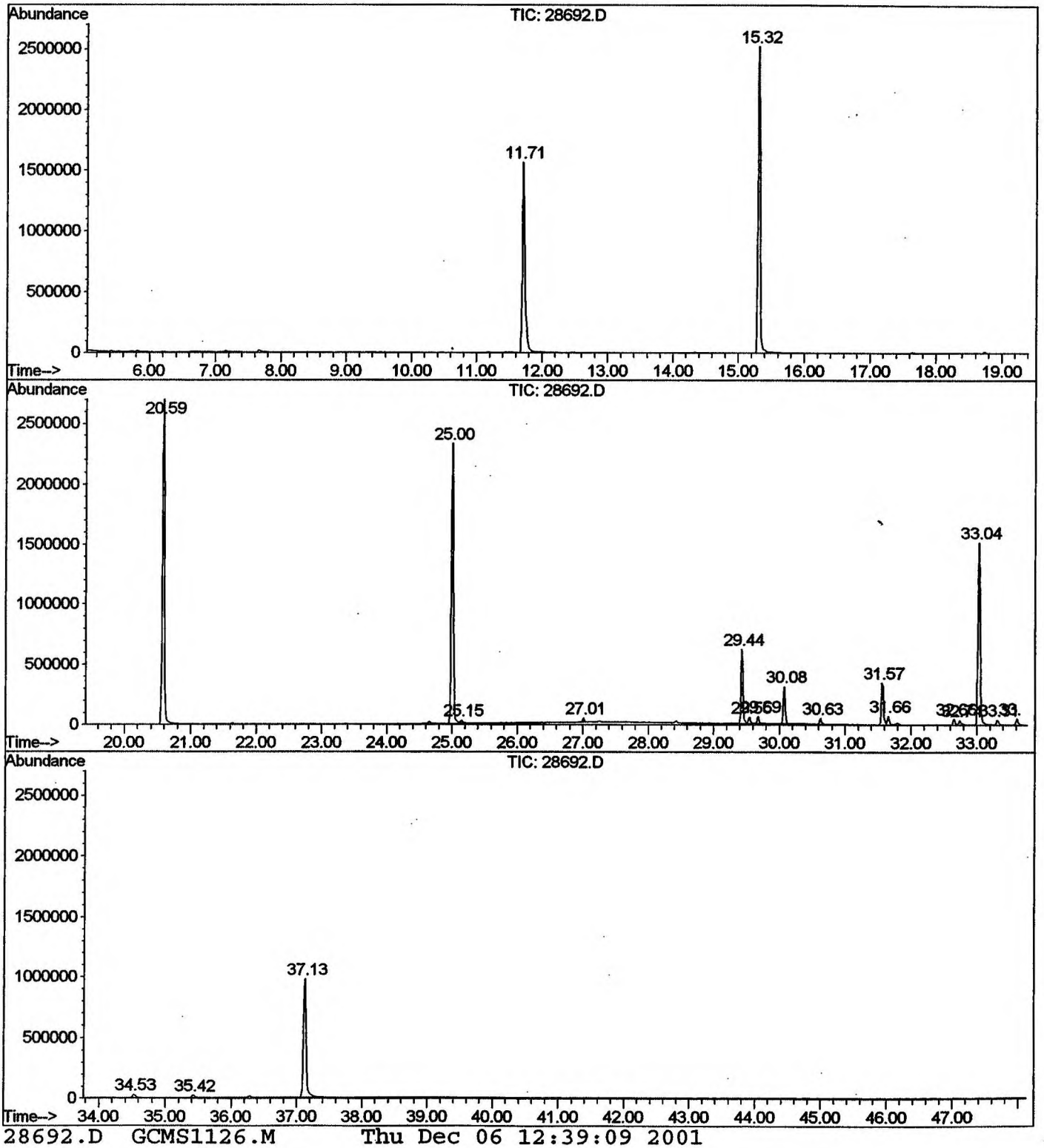
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	11.710	721	726	745	rBV	1562339	4263029	73.74%	13.828%
2	15.318	1113	1119	1137	rBV	2522134	5556274	96.11%	18.023%
3	20.588	1686	1693	1714	rBV	2700949	5780947	100.00%	18.752%
4	25.003	2168	2174	2187	rBV2	2325383	5117984	88.53%	16.602%
5	25.150	2187	2190	2204	rVB	22542	71918	1.24%	0.233%
6	27.014	2389	2393	2398	rVB	31290	62151	1.08%	0.202%
7	29.438	2652	2657	2665	rBV	616504	1229914	21.28%	3.990%
8	29.548	2665	2669	2675	rVB	48555	104285	1.80%	0.338%
9	29.685	2679	2684	2694	rVB	55656	122495	2.12%	0.397%
10	30.080	2721	2727	2732	rBV	307004	647439	11.20%	2.100%
11	30.631	2782	2787	2795	rVB	47195	102087	1.77%	0.331%
12	31.567	2883	2889	2896	rBV	344475	765038	13.23%	2.482%
13	31.659	2896	2899	2907	rVV	69791	159838	2.76%	0.518%
14	32.660	3000	3008	3013	rBV	49664	112863	1.95%	0.366%
15	32.742	3013	3017	3031	rVB3	34122	97437	1.69%	0.316%
16	33.036	3042	3049	3066	rBV	1515538	3537248	61.19%	11.474%
17	33.312	3075	3079	3088	rVB	38832	92189	1.59%	0.299%
18	33.615	3105	3112	3120	rBV2	51190	121069	2.09%	0.393%
19	34.533	3207	3212	3221	rBV	29700	80956	1.40%	0.263%
20	35.423	3303	3309	3315	rBV3	20913	58048	1.00%	0.188%
21	37.131	3487	3495	3514	rBV2	972447	2744846	47.48%	8.904%

Sum of corrected areas: 30828055

28692.D GCMS1126.M Thu Dec 06 12:39:06 2001

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\DEC0401\28692.D
Operator : 209 GALOS
Acquired : 5 Dec 2001 5:56 am using AcqMethod GCMS1126
Instrument : GC/MS 209
Sample Name: gc/ms 11/24
Misc Info :
Vial Number: 19
Quant File :GCMS1126.RES (RTE Integrator)



28692.D GCMS1126.M Thu Dec 06 12:39:09 2001

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\DEC0401\28692.D
Acq On : 5 Dec 2001 5:56 am
Sample : gc/ms 11/24
Misc :
MS Integration Params: LSCINT.P

Vial: 19
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

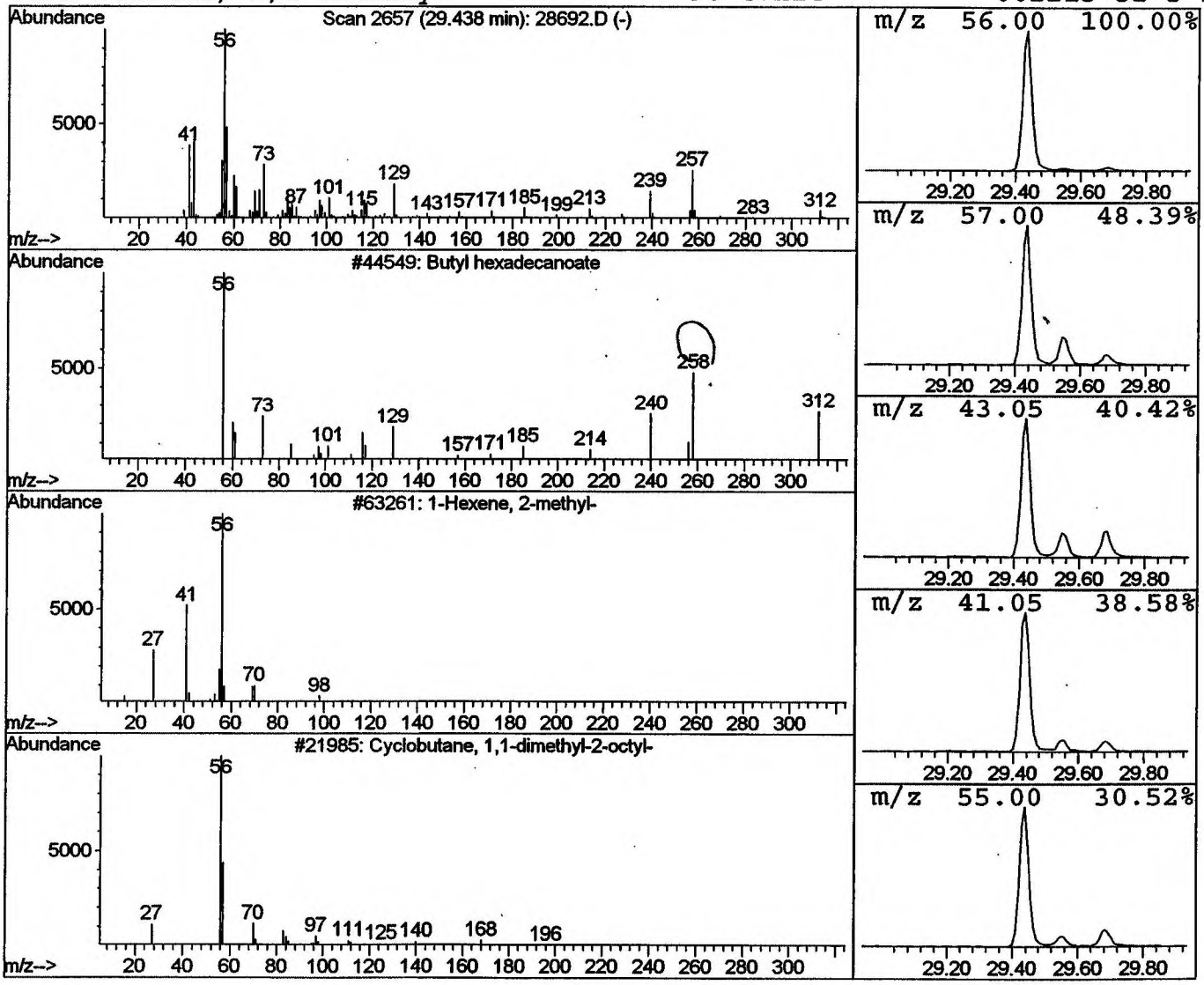
Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 Butyl hexadecanoate Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
29.44	6.95 ug/l	1229910	Chrysene-d12	33.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butyl hexadecanoate	312	C20H40O2	000000-00-0	35
2	1-Hexene, 2-methyl-	98	C7H14	006094-02-6	27
3	Cyclobutane, 1,1-dimethyl-2-octyl-	196	C14H28	062338-30-1	27
4	1-Pentene, 2,4-dimethyl-	98	C7H14	002213-32-3	27



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Acq On : 5 Dec 2001 5:56 am
Sample : gc/ms 11/24
Misc :
MS Integration Params: LSCINT.P

Vial: 19
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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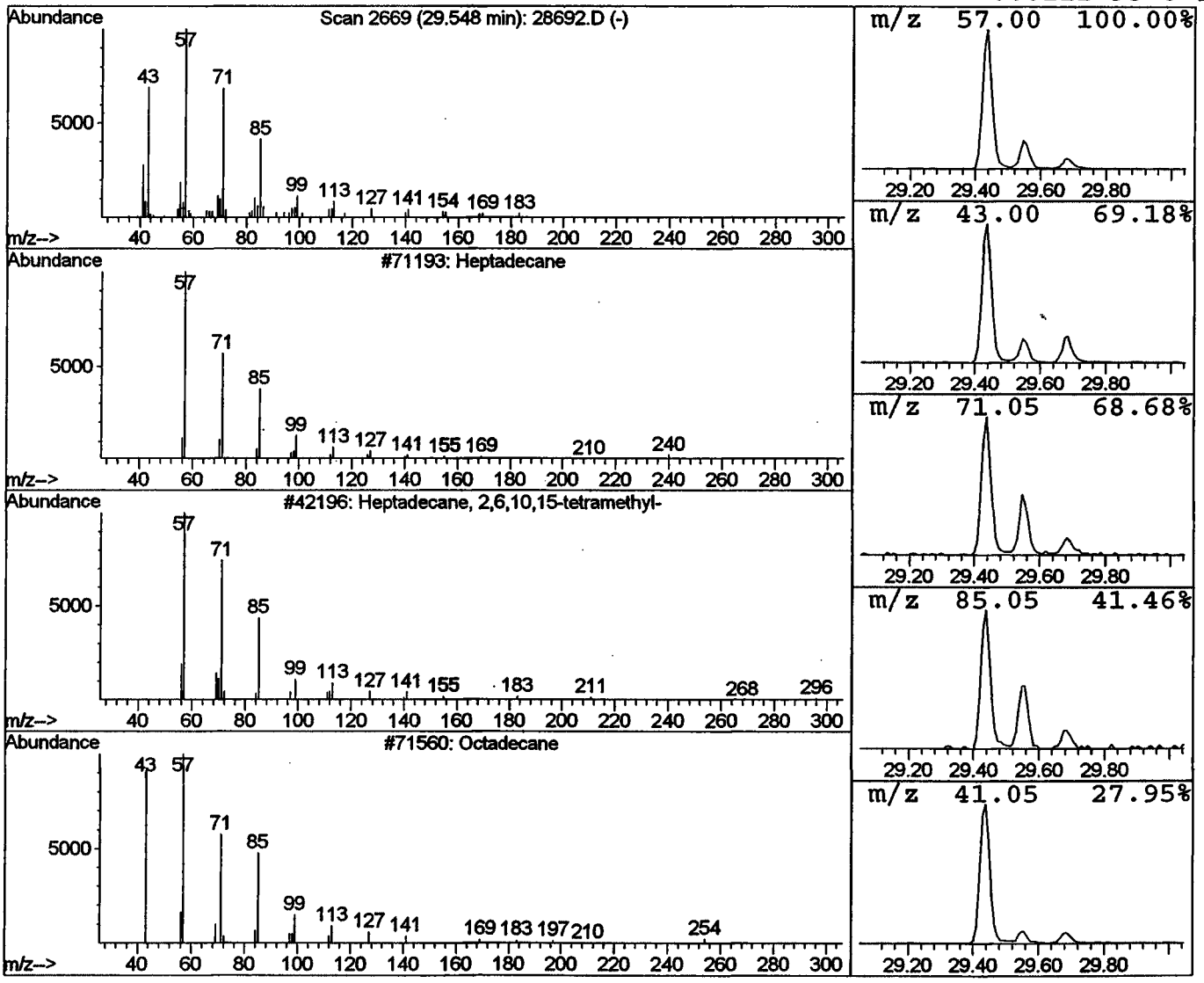
Peak Number 2 Heptadecane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
29.55	0.59 ug/l	104285	Chrysene-d12	33.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane	240	C17H36	000629-78-7	91
2	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	91
3	Octadecane	254	C18H38	000593-45-3	91
4	Eicosane	282	C20H42	000112-95-8	90



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

Vial: 19
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
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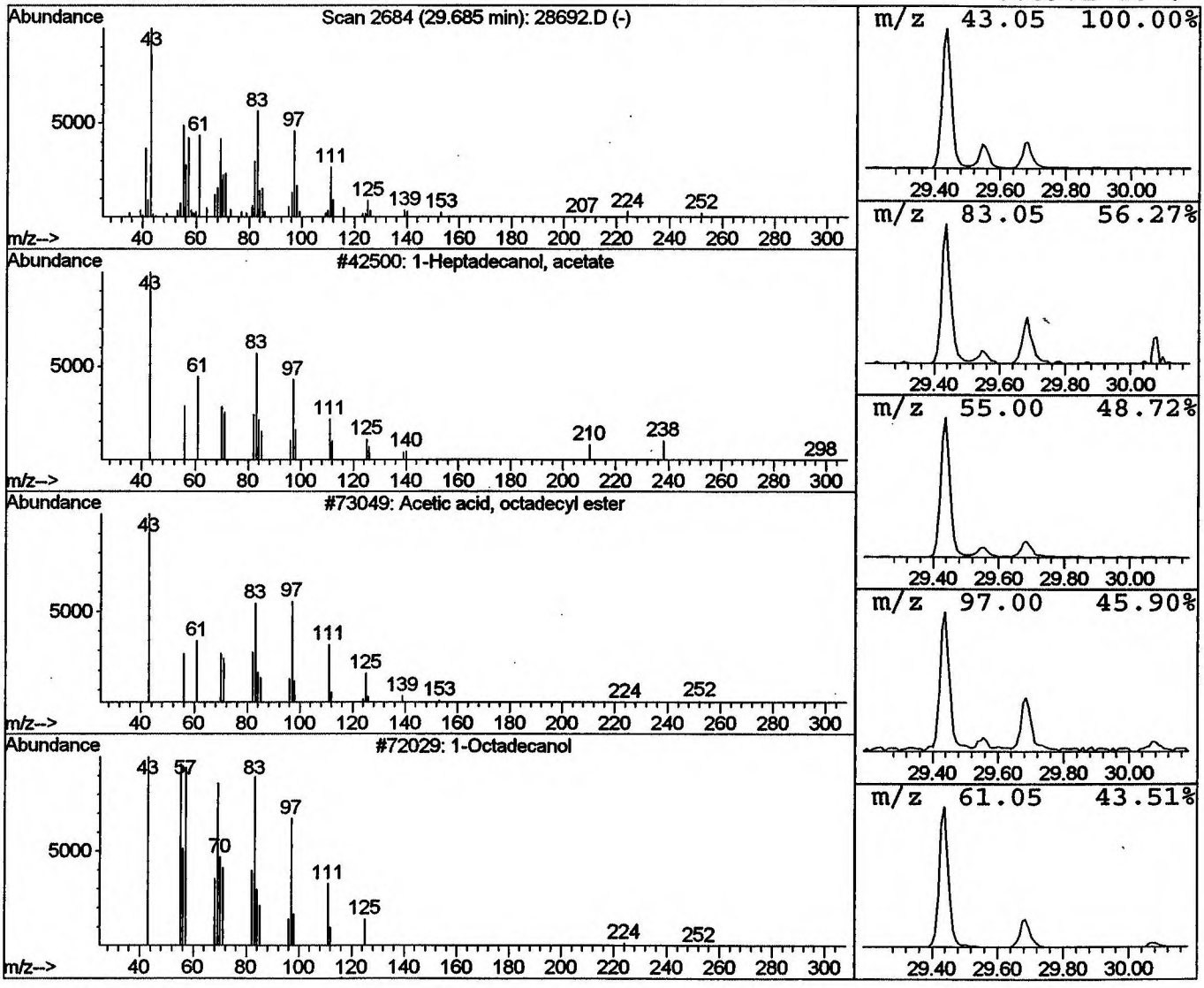
Peak Number 3 1-Heptadecanol, acetate Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
29.69	0.69 ug/l	122495	Chrysene-d12	33.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heptadecanol, acetate	298	C19H38O2	000822-20-8	86
2	Acetic acid, octadecyl ester	312	C20H40O2	000822-23-1	78
3	1-Octadecanol	270	C18H38O	000112-92-5	49
4	17-Pentatriacontene	491	C35H70	006971-40-0	47



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Vial: 19
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Inst : GC/MS 209
Multiplr: 1.00

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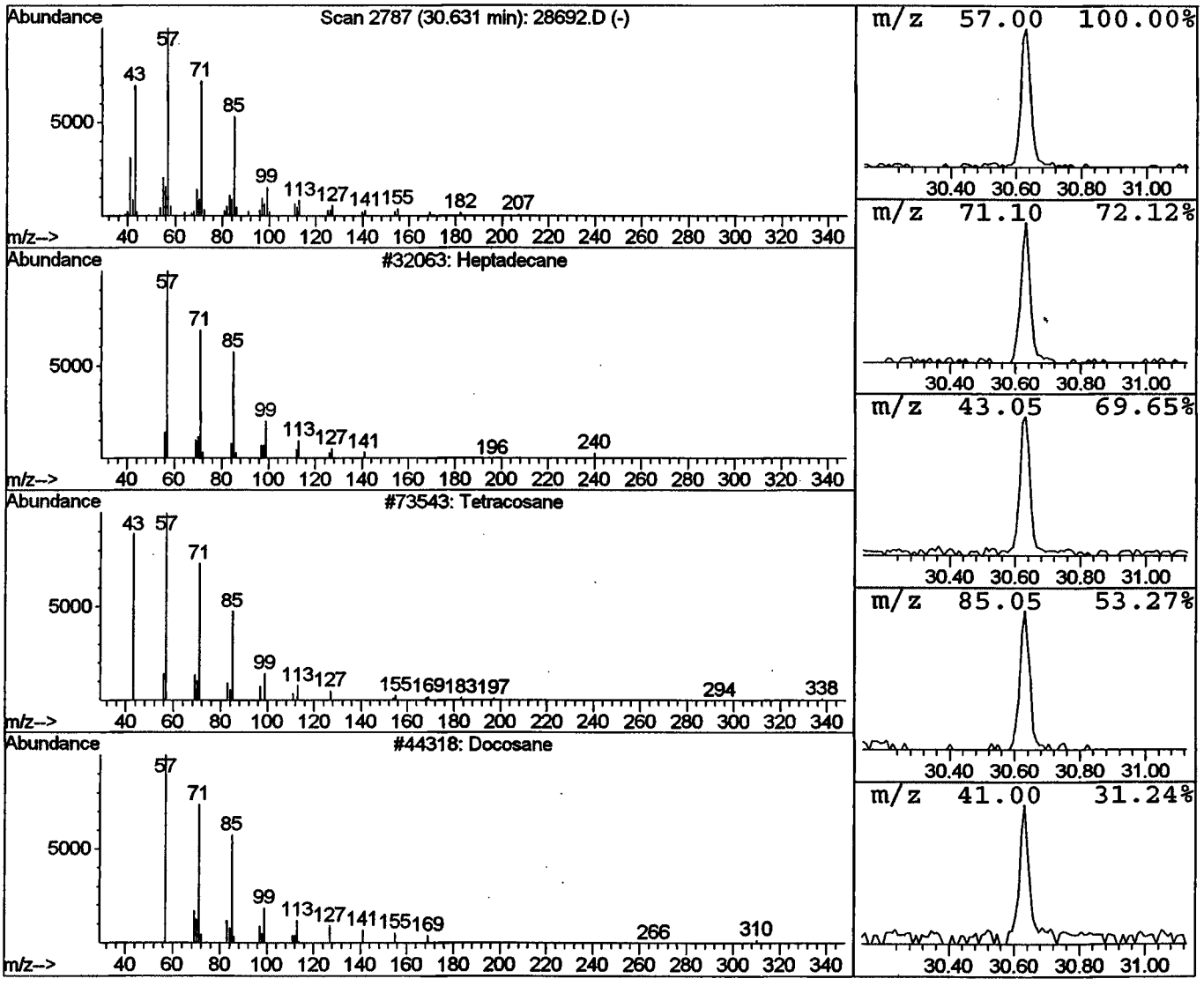
Peak Number 4 Heptadecane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
30.63	0.58 ug/l	102087	Chrysene-d12	33.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane	240	C17H36	000629-78-7	91
2	Tetracosane	338	C24H50	000646-31-1	91
3	Docosane	310	C22H46	000629-97-0	90
4	Octadecane	254	C18H38	000593-45-3	86



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Multiplr: 1.00

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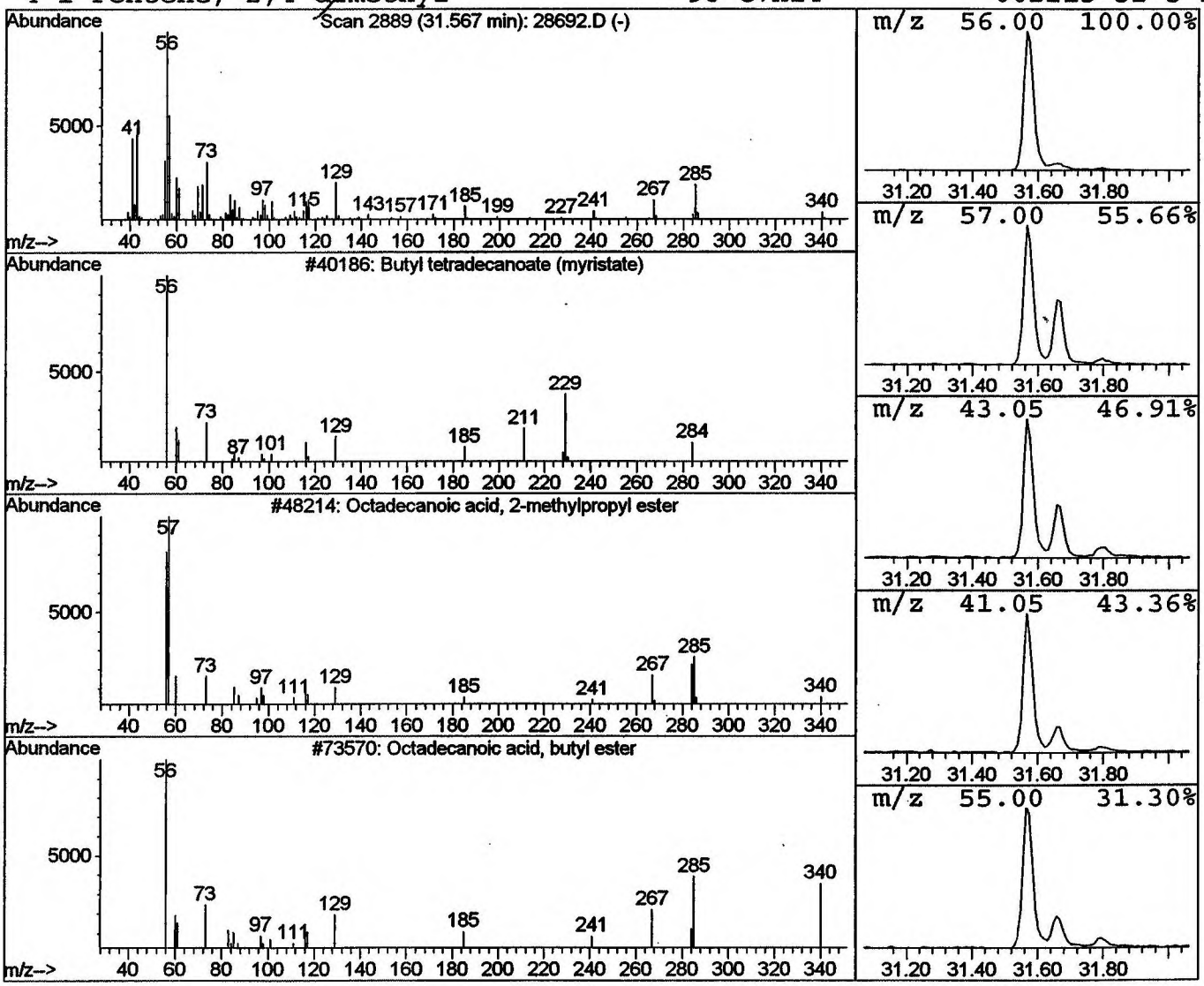
Peak Number 5 Butyl tetradecanoate (myristat Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
31.57	4.33 ug/l	765038	Chrysene-d12	33.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butyl tetradecanoate (myristate)	284	C18H36O2	000000-00-0	64
2	Octadecanoic acid, 2-methylpropyl e	340	C22H44O2	000646-13-9	50
3	Octadecanoic acid, butyl ester	340	C22H44O2	000123-95-5	45
4	1-Pentene, 2,4-dimethyl-	98	C7H14	002213-32-3	27



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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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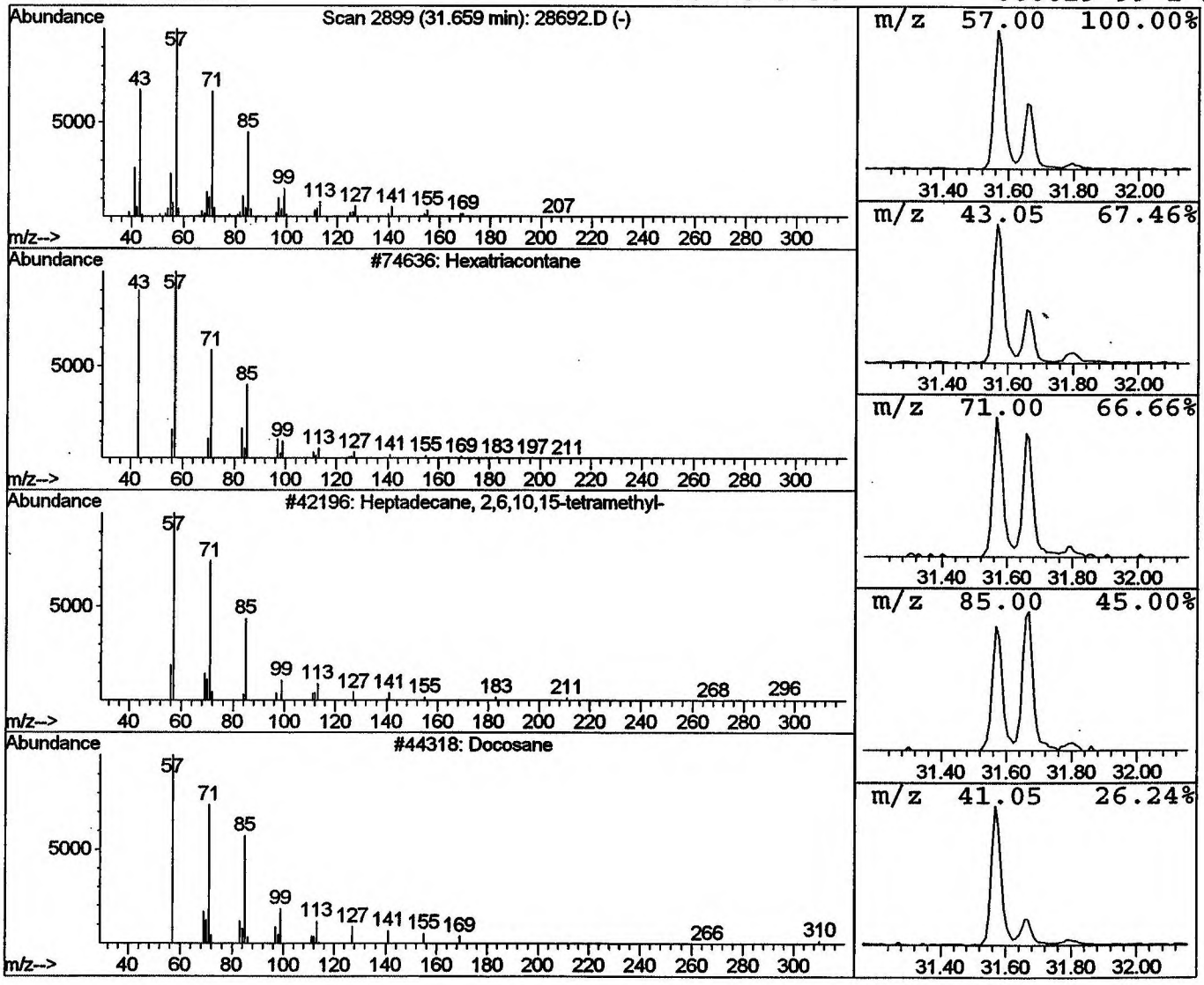
Library : C:\DATABASE\NBS75K.L

****

Peak Number 6 Hexatriacontane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
31.66	0.90 ug/l	159838	Chrysene-d12	33.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexatriacontane	507	C36H74	000630-06-8	91
2	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	90
3	Docosane	310	C22H46	000629-97-0	90
4	Pentacosane	352	C25H52	000629-99-2	90



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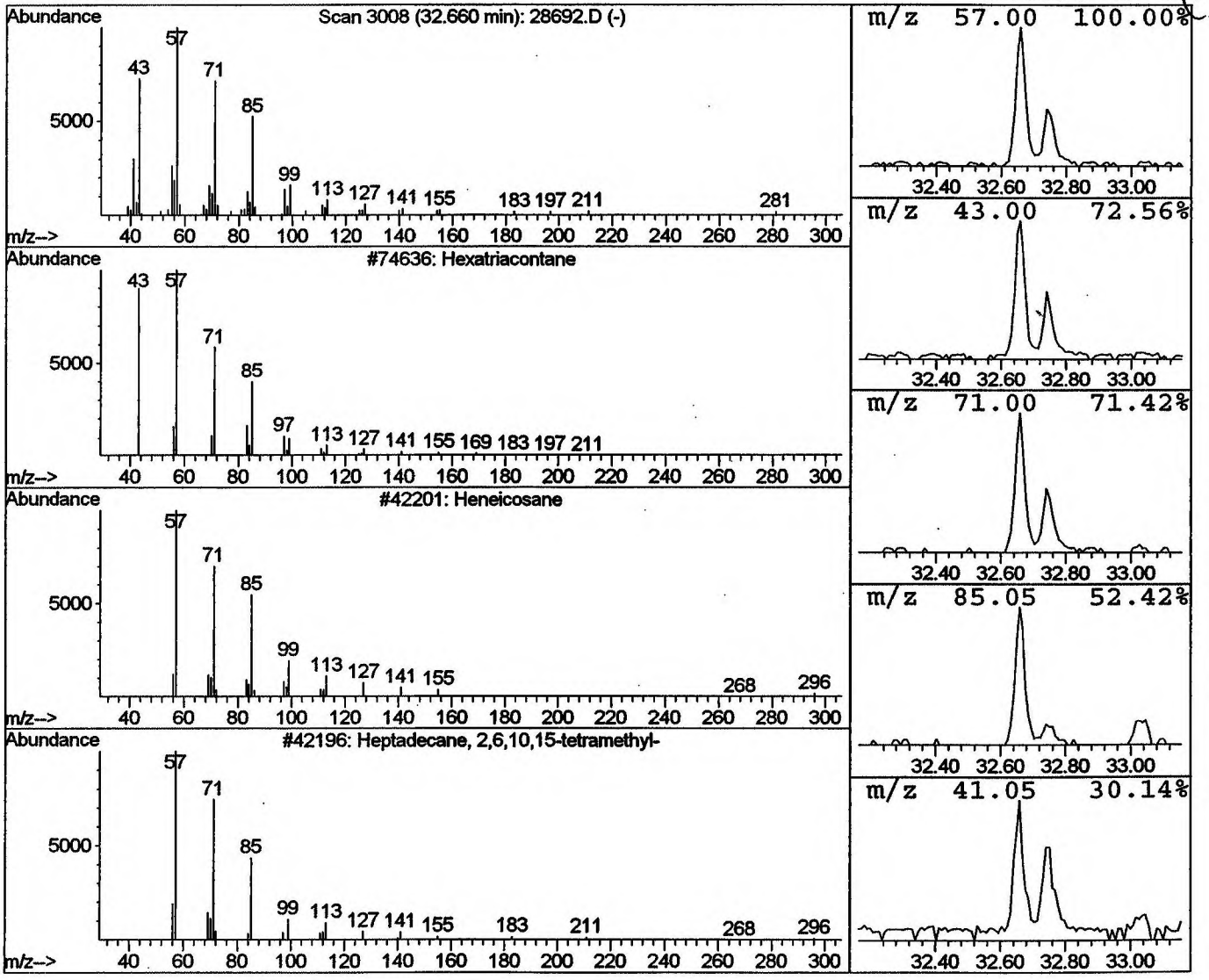
Peak Number 7 Hexatriacontane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
32.66	0.64 ug/l	112863	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	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	91
4	Octadecane	254	C18H38	000593-45-3	91



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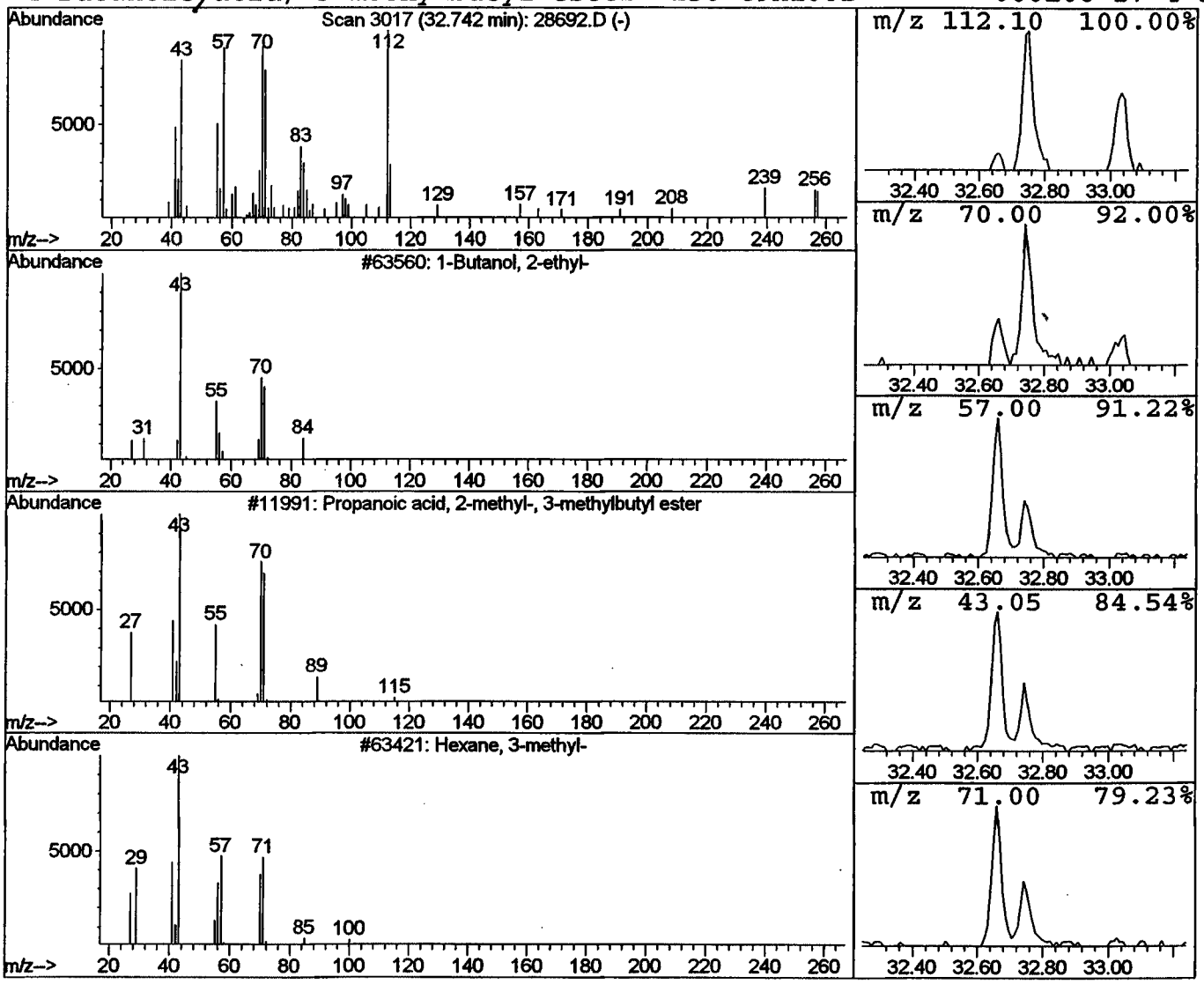
****

Peak Number 8 1-Butanol, 2-ethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
32.74	0.55 ug/l	97437	Chrysene-d12	33.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Butanol, 2-ethyl-	102	C6H14O	000097-95-0	38
2	Propanoic acid, 2-methyl-, 3-methyl	158	C9H18O2	002050-01-3	35
3	Hexane, 3-methyl-	100	C7H16	000589-34-4	35
4	Butanoic acid, 3-methylbutyl ester	158	C9H18O2	000106-27-4	35



Library Search Compound Report

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Acq On : 5 Dec 2001 5:56 am
Sample : gc/ms 11/24
Misc :
MS Integration Params: LSCINT.P

Vial: 19
Operator: 209 GALOS
Inst : GC/MS 209
Multiplr: 1.00

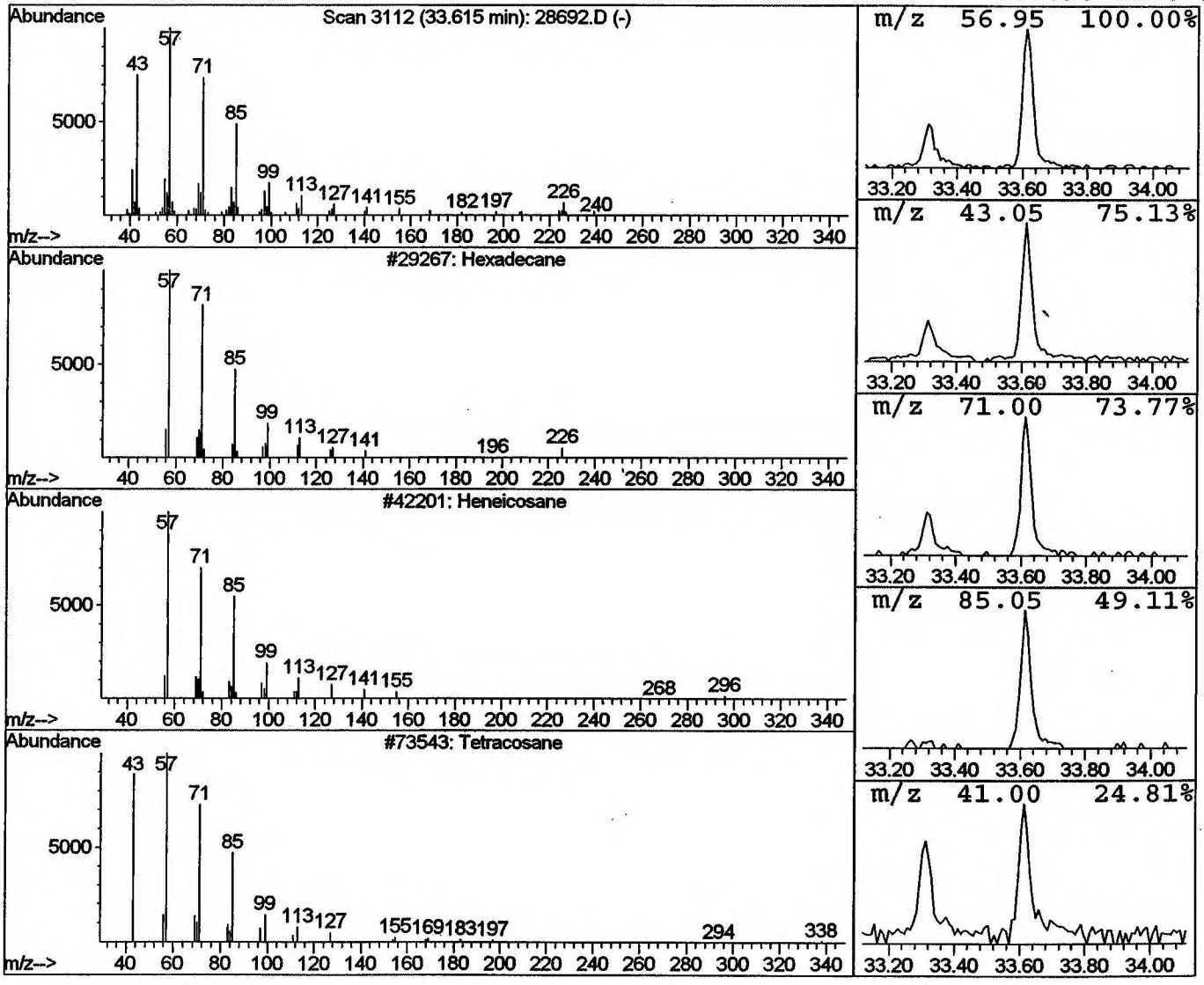
Quant Method : C:\HPCHEM\1\METHODS\GCMS1126.M (RTE Integrator)
Title : 209 625/TCLP calibration table
Library : C:\DATABASE\NBS75K.L

****

Peak Number 9 Hexadecane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
33.61	0.68 ug/l	121069	Chrysene-d12	33.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	93
2	Heneicosane	296	C21H44	000629-94-7	91
3	Tetracosane	338	C24H50	000646-31-1	91
4	Tetratetracontane	619	C44H90	007098-22-8	91



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\DEC0401\28692.D
Acq On : 5 Dec 2001 5:56 am
Sample : gc/ms 11/24
Misc :
MS Integration Params: LSCINT.P

Vial: 19
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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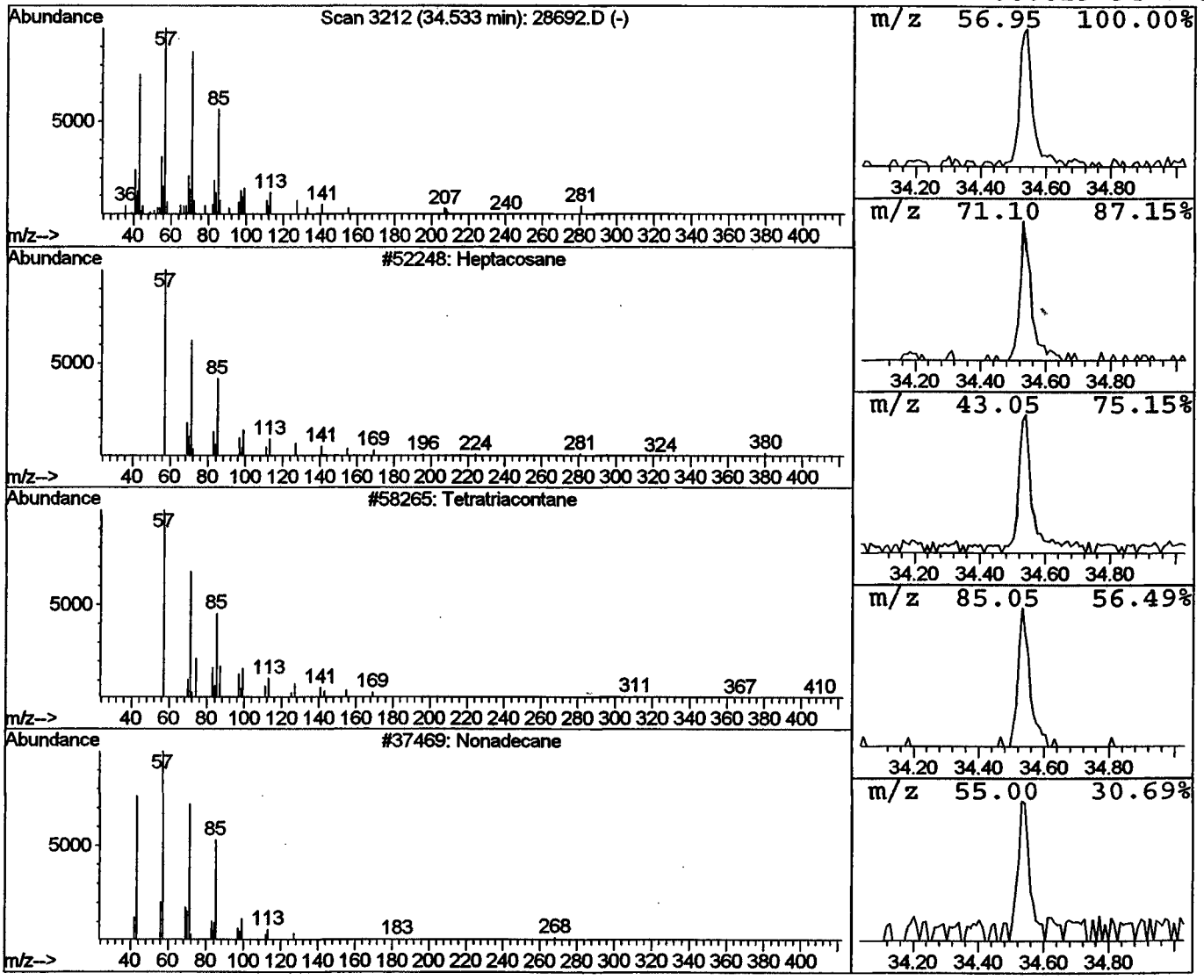
Peak Number 10 , Heptacosane — Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
34.53	0.46 ug/l	80956	Chrysene-d12	33.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptacosane	380	C27H56	000593-49-7	91
2	Tetratriacontane	479	C34H70	014167-59-0	90
3	Nonadecane	268	C19H40	000629-92-5	90
4	Heneicosane	296	C21H44	000629-94-7	87



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\DEC0401\28692.D
Acq On : 5 Dec 2001 5:56 am
Sample : gc/ms 11/24
Misc :
MS Integration Params: LSCINT.P

Vial: 19
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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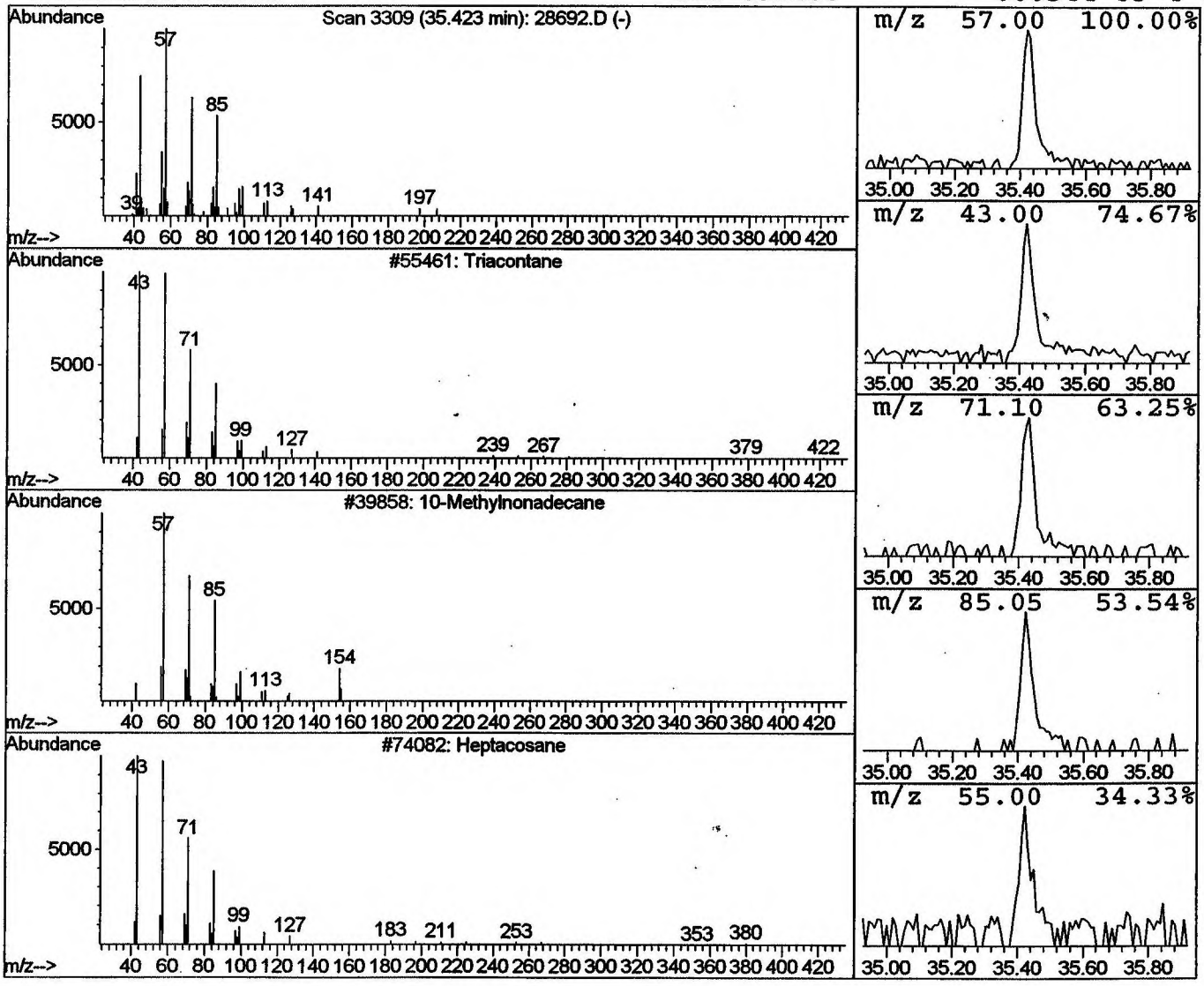
Peak Number 11 Triacontane — Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
35.42	0.42 ug/l	58048	Perylene-d12	37.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Triacontane	422	C30H62	000638-68-6	86
2	10-Methylnonadecane	282	C20H42	000000-00-0	80
3	Heptacosane	380	C27H56	000593-49-7	80
4	Dotriacontane	451	C32H66	000544-85-4	80



Tentatively Identified Compound (LSC) summary

Operator ID: 209 GALOS Date Acquired: 5 Dec 2001 5:56 am
Data File: C:\HPCHEM\1\DATA\DEC0401\28692.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
~~Butyl hexa~~decanoate	29.44	7.0	ug/l	1229910	ISTD05	33.04	3537250	20.0
Heptadecane	29.55	0.6	ug/l	104285	ISTD05	33.04	3537250	20.0
1-Heptadecanol, acet	29.69	0.7	ug/l	122495	ISTD05	33.04	3537250	20.0
Heptadecane	30.63	0.6	ug/l	102087	ISTD05	33.04	3537250	20.0
~~Butyl tetradecanoate~~	31.57	4.3	ug/l	765038	ISTD05	33.04	3537250	20.0
Hexatriacontane	31.66	0.9	ug/l	159838	ISTD05	33.04	3537250	20.0
Hexatriacontane	32.66	0.6	ug/l	112863	ISTD05	33.04	3537250	20.0
~~1-Butanol, 2-ethyl-~~	32.74	0.6	ug/l	97437	ISTD05	33.04	3537250	20.0
Hexadecane	33.61	0.7	ug/l	121069	ISTD05	33.04	3537250	20.0
Heptacosane	34.53	0.5	ug/l	80956	ISTD05	33.04	3537250	20.0
Triacontane	35.42	0.4	ug/l	58048	ISTD06	37.13	2744850	20.0

28692.D GCMS1126.M Thu Dec 06 12:39:47 2001

Just top ones