User: Vinci, David L
Westchester Dept. of Labs & Research
Date: 01/29/2002 Time: 10:33:38

Sample: AE00702
Analysis: $GCMS GCMS Scan For Unknowns
Units: ug
Started: 1/29/02 10:33 Ended: 1/29/02 10:33 Analyst: DLV
Page: 1

	Component Name	Viol	Result	Qualifier	MDL
1	Other unknown compounds		.		
2	Surr_2,4-DDD		111		5.0

d-Limonene fit 97 1.2 ng/L

FB — 616, 562

37950/00793

1/8/2 Speranza/MOHAN

Comments for Sample AE00702 - Analysis $GCMS

Westchester Dept. of Labs & Research
User: Vinci, David L
Date: 01-29-2002 Time: 10:41:31

The GCMS scan, from 35 to 550 amu, does not reveal the presence of unusual compounds, except for d-Limonene at an estimated level of 1.2 ug/L, and with a fit of 97 out of 100.
The recoveries for 15 of the 43 compounds in the LCS Standard were outside of their acceptance ranges.

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\5973N\02JAN16\00702.D Vial: 2
Acq On : 16 Jan 2002 3:57 pm Operator:
Sample : 508scan Inst : Instrumen
Misc : January 16, 2002 Multiplr: 1.00
MS Integration Params: SPLIT.P
Quant Time: Jan 17 08:12:19 2002 Quant Results File: SCAN508.RES

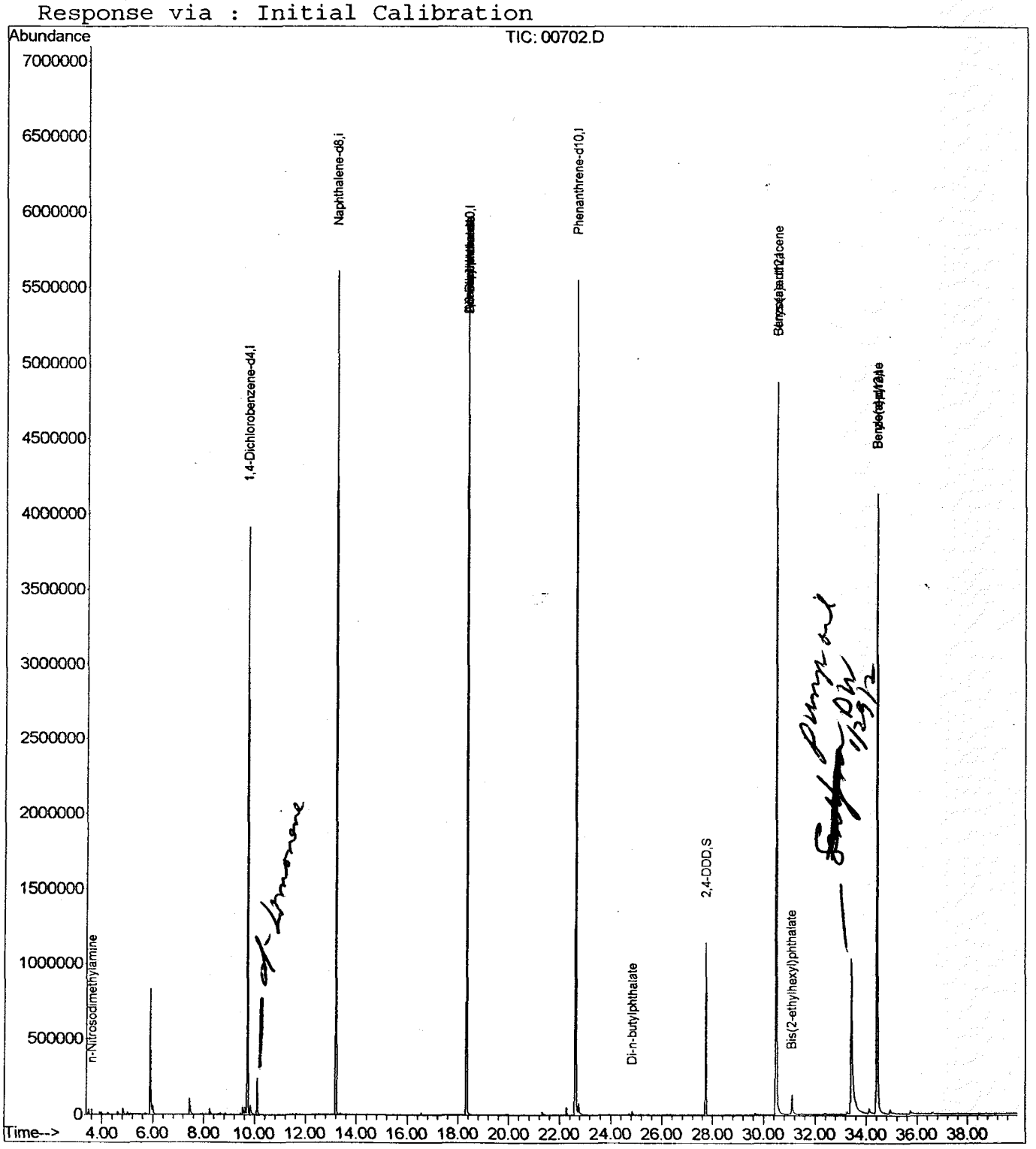
Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
Title : 508 scan method
Last Update : Fri Jan 11 13:20:07 2002
Response via : Initial Calibration
DataAcq Meth : SCAN508

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.71	152	1296603	20.00	ug/L	0.00
10) Naphthalene-d8	13.19	136	5475389	20.00	ug/L	-0.02
17) Acenaphthene-d10	18.34	164	2925848	20.00	ug/L	-0.01
29) Phenanthrene-d10	22.65	188	4854324	20.00	ug/L	-0.02
38) Chrysene-d12	30.50	240	4217566	20.00	ug/L	-0.01
44) Perylene-d12	34.42	264	3196454	20.00	ug/L	0.00
System Monitoring Compounds						
37) 2,4-DDD	27.73	235	424325	5.53	ug/L	0.00
Spiked Amount 5.000			Recovery = 110.60%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	3.60	74	12024	0.22	ug/L #	12
20) Dimethylphthalate	18.34	163	465506	2.41	ug/L #	56
21) 2,6-Dinitrotoluene	18.34	165	369373	9.80	ug/L #	17
35) Di-n-butylphthalate	24.85	149	29426	0.09	ug/L	95
41) Benzo(a)anthracene	30.50	228	8605	0.03	ug/L #	46
42) Bis(2-ethylhexyl)phthalate	31.11	149	120393	1.12	ug/L	93
43) Chrysene	30.50	228	8605	0.03	ug/L #	44
48) Benzo(a)pyrene	34.42	252	9848	0.05	ug/L #	1

(#) = qualifier out of range (m) = manual integration
00702.D SCAN508.M Thu Jan 17 08:12:20 2002 Page 1

Data File : C:\MSDCHEM\1\5973N\02JAN16\00702.D Vial: 2
Acq On : 16 Jan 2002 3:57 pm Operator:
Sample : 508scan Inst : Instrumen
Misc : January 16, 2002 Multiplr: 1.00
MS Integration Params: SPLIT.P
Quant Time: Jan 17 8:12 2002 Quant Results File: SCAN508.RE

Method : C:\MSDCHEM\1\METHODS\METHODS\SCAN508.M (RTE Integrator)
Title : 508 scan method
Last Update : Fri Jan 11 13:20:07 2002
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\5973N\02JAN16\00702.D Vial: 2
Acq On : 16 Jan 2002 3:57 pm Operator:
Sample : 508scan Inst : Instrumen
Misc : January 16, 2002 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\METHODS\SCAN508.M (RTE Integrator)
Title : 508 scan method
Smoothing : OFF Filtering: 5
Sampling : 2 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 20
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

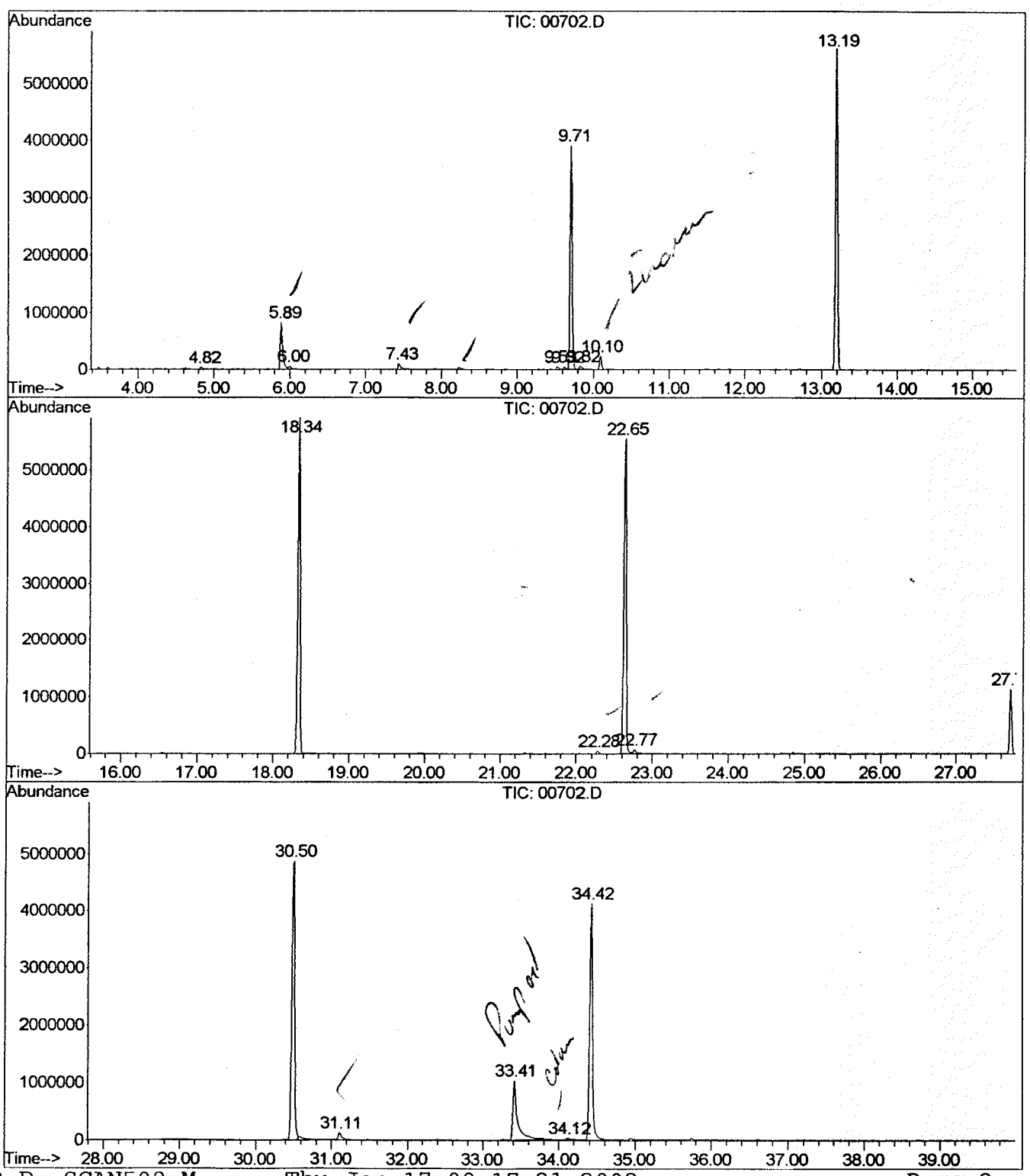
Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.824	125	127	137	rBV	37950	99004	0.77%	0.130%
2	5.885	215	220	227	rBV	829714	1637735	12.75%	2.158%
3	6.000	227	230	235	rVB	52919	111019	0.86%	0.146%
4	7.427	353	355	375	rVV	104904	263856	2.05%	0.348%
5	9.527	535	539	545	rBV2	48928	119298	0.93%	0.157%
6	9.619	545	547	551	rVV	44823	96094	0.75%	0.127%
7	9.710	551	555	561	rVV	3909109	7337350	57.13%	9.668%
8	9.824	561	565	575	rVB	58831	146304	1.14%	0.193%
9	10.098	585	589	593	rVB	237660	450461	3.51%	0.594%
10	13.192	855	860	865	rBV	5609183	10511236	81.84%	13.850%
11	18.341	1305	1311	1315	rBV	5914567	11771200	91.65%	15.510%
12	22.280	1651	1656	1661	rBV	53465	102670	0.80%	0.135%
13	22.645	1681	1688	1693	rBV2	5548861	12842992	100.00%	16.923%
14	22.771	1693	1699	1703	rVB	66988	164519	1.28%	0.217%
15	27.726	2129	2133	2139	rBV	1142207	2059235	16.03%	2.713%
16	30.500	2369	2376	2381	rBV	4875603	12379306	96.39%	16.312%
17	31.105	2425	2429	2451	rVB	127011	412893	3.21%	0.544%
18	33.412	2625	2631	2671	rVV	1028120	4468421	34.79%	5.888%
19	34.119	2687	2693	2703	rBV3	32497	116079	0.90%	0.153%
20	34.416	2713	2719	2747	rVB	4120897	10802559	84.11%	14.234%

Sum of corrected areas: 75892231

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM\1\5973N\02JAN16\00702.D
Operator :
Acquired : 16 Jan 2002 3:57 pm using AcqMethod SCAN508
Instrument : Instrumen
Sample Name: 508scan
Misc Info : January 16, 2002
Vial Number: 2
Quant File :SCAN508.RES (RTE Integrator)



Data File : C:\MSDCHEM\1\5973N\02JAN16\00702.D Vial: 2
Acq On : 16 Jan 2002 3:57 pm Operator:
Sample : 508scan Inst : Instrumen
Misc : January 16, 2002 Multiplr: 1.00
MS Integration Params: LSCINT.P

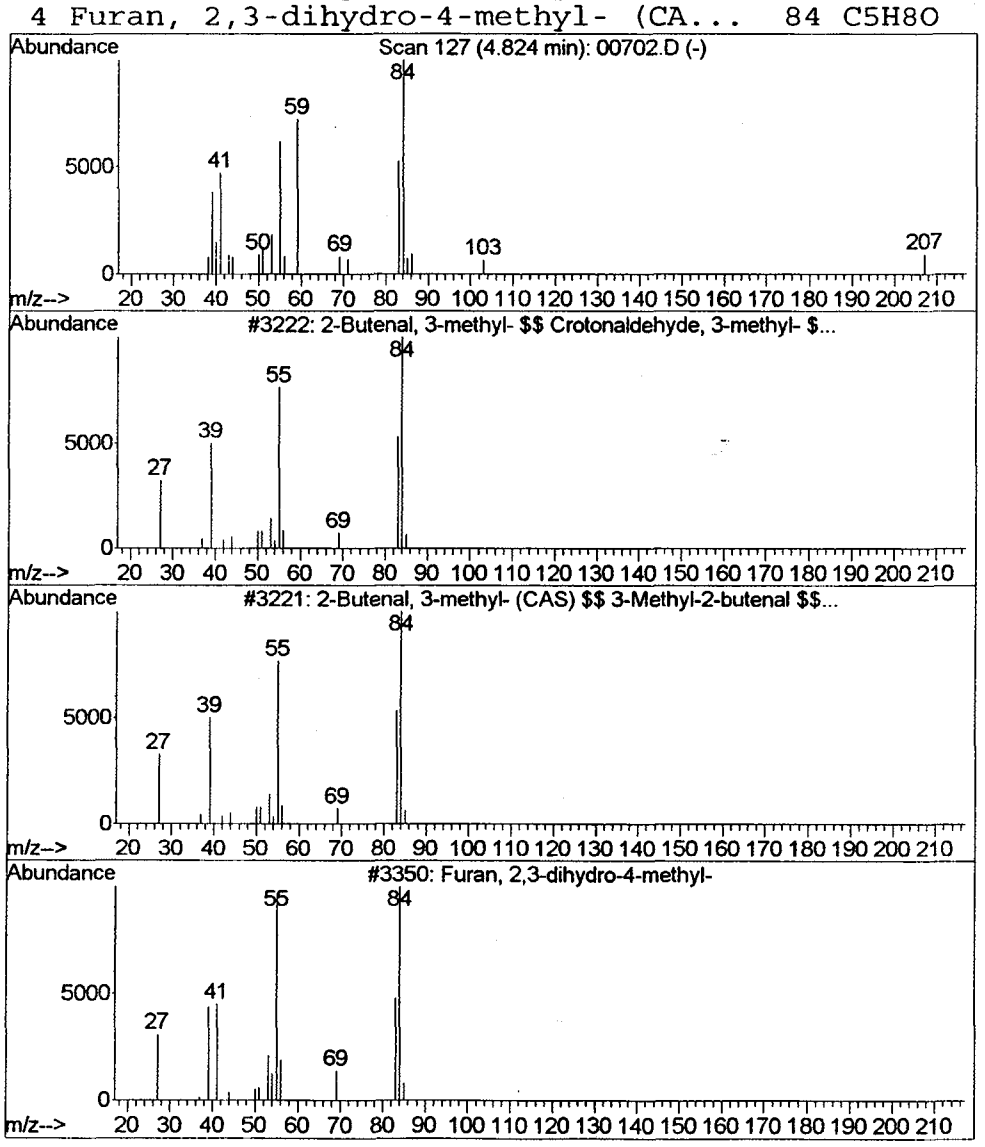
Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
Title : 508 scan method
Library : C:\DATABASE\WILEY7N.L

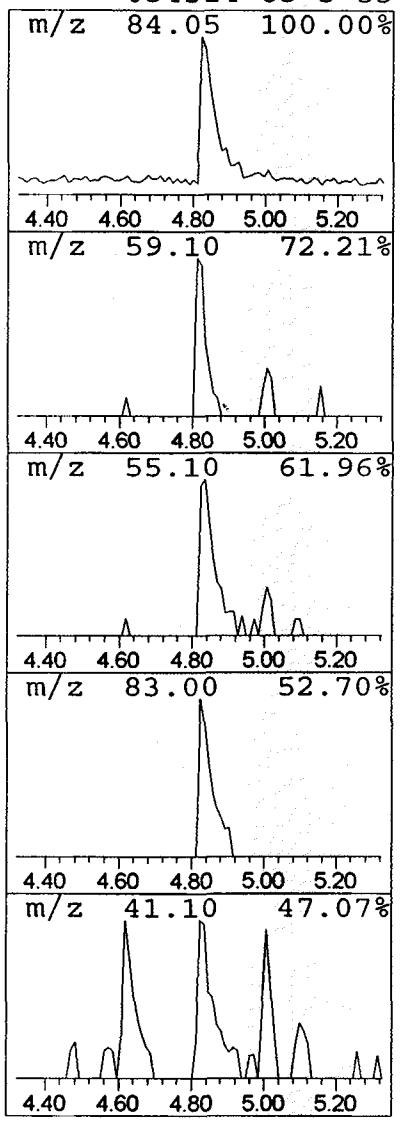
****

Peak Number 1 2-Butenal, 3-methyl- $$ Cro... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.82	0.27 ug/L	99004	1,4-Dichlorobenzene-d4	9.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Butenal, 3-methyl- $$ Crotonal...	84	C5H8O	000107-86-8	70
2	2-Butenal, 3-methyl- (CAS) $$ 3-...	84	C5H8O	000107-86-8	70
3	Furan, 2,3-dihydro-4-methyl-	84	C5H8O	034314-83-5	53
4	Furan, 2,3-dihydro-4-methyl- (CA...	84	C5H8O	034314-83-5	53





Data File : C:\MSDCHEM\1\5973N\02JAN16\00702.D Vial: 2
Acq On : 16 Jan 2002 3:57 pm Operator:
Sample : 508scan Inst : Instrumen
Misc : January 16, 2002 Multiplr: 1.00
MS Integration Params: LSCINT.P

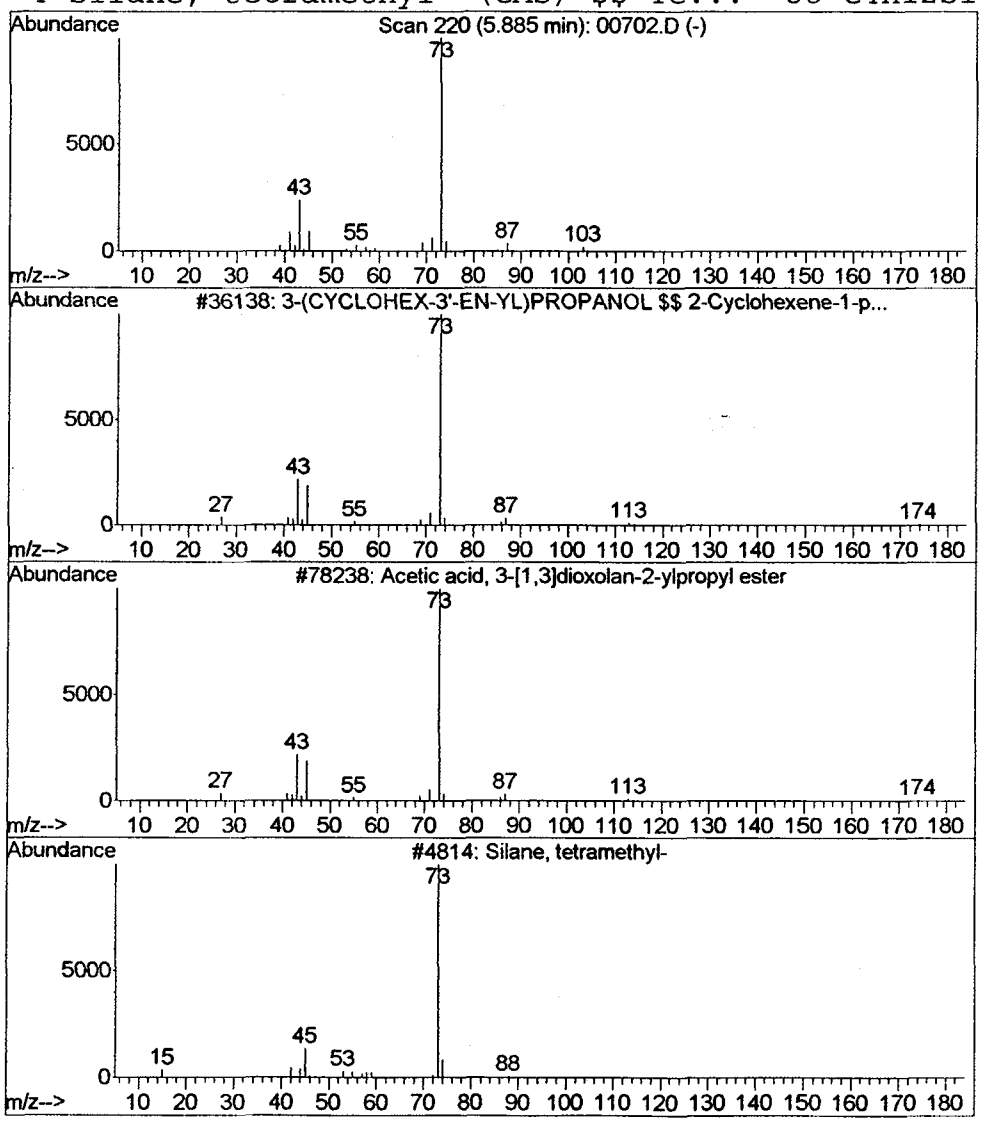
Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
Title : 508 scan method
Library : C:\DATABASE\WILEY7N.L

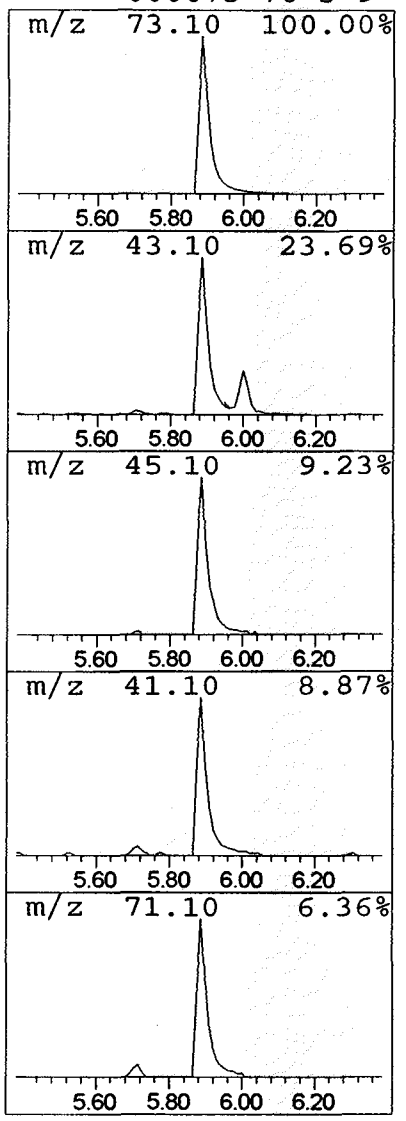
****

Peak Number 2 3-(CYCLOHEX-3'-EN-YL)PROPAN... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.89	4.46 ug/L	1637740	1,4-Dichlorobenzene-d4	9.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-(CYCLOHEX-3'-EN-YL)PROPANOL $$...	174	C8H14O4	015745-87-6	33
2	Acetic acid, 3-[1,3]dioxolan-2-y...	174	C8H14O4	000000-00-0	33
3	Silane, tetramethyl-	88	C4H12Si	000075-76-3	23
4	Silane, tetramethyl- (CAS) $$ Te...	88	C4H12Si	000075-76-3	9





Data File : C:\MSDCHEM\1\5973N\02JAN16\00702.D Vial: 2
Acq On : 16 Jan 2002 3:57 pm Operator:
Sample : 508scan Inst : Instrumen
Misc : January 16, 2002 Multiplr: 1.00
MS Integration Params: LSCINT.P

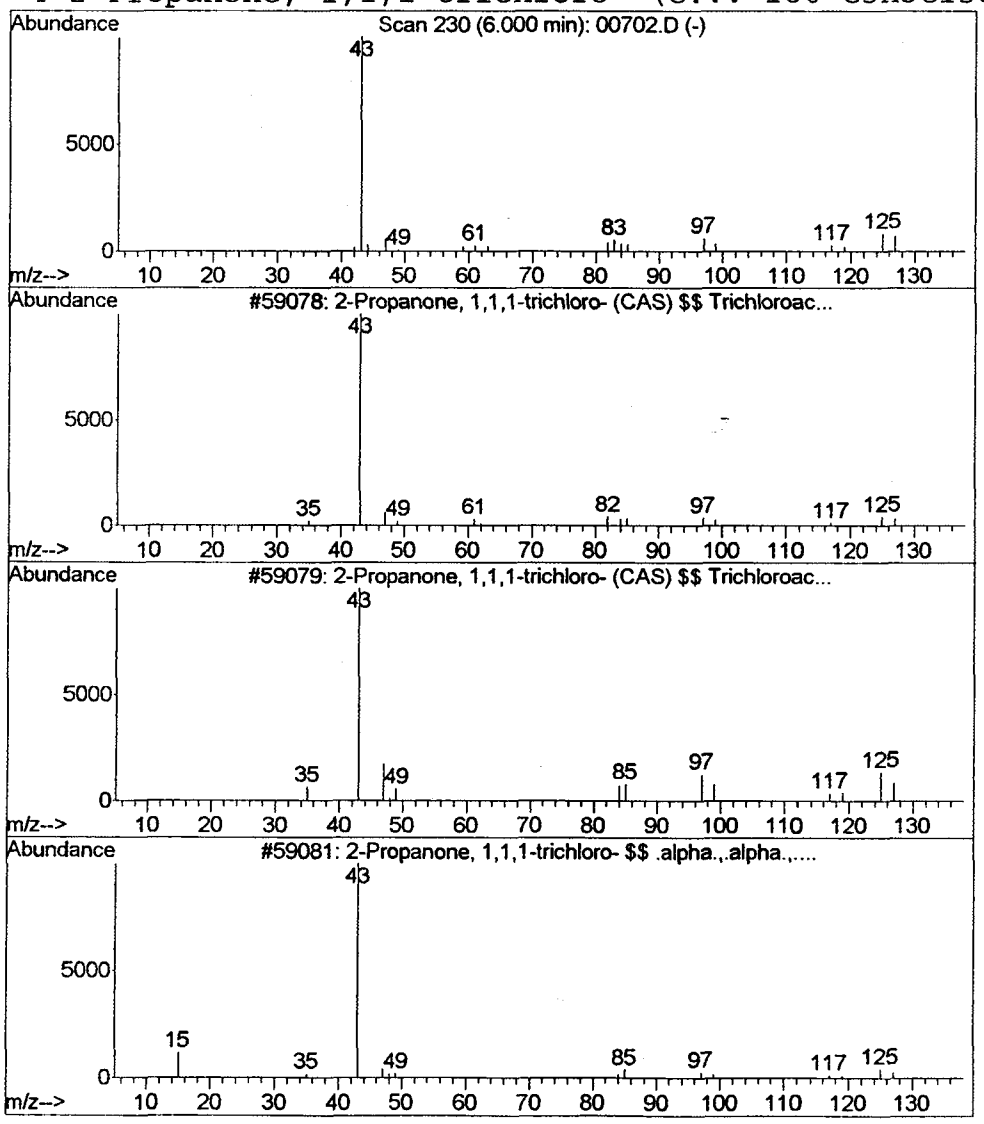
Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
Title : 508 scan method
Library : C:\DATABASE\WILEY7N.L

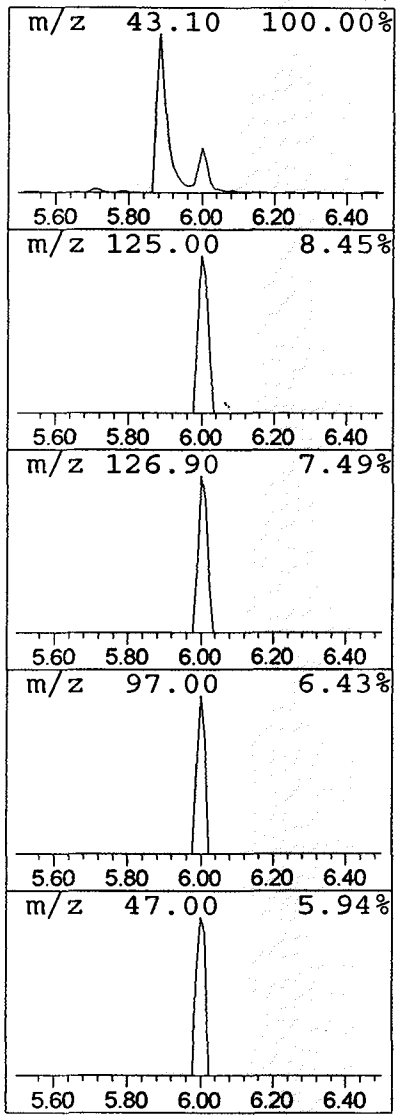
****

Peak Number 3 2-Propanone, 1,1,1-trichlor... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.00	0.30 ug/L	111019	1,4-Dichlorobenzene-d4	9.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanone, 1,1,1-trichloro- (C...	160	C3H3Cl3O	000918-00-3	74
2	2-Propanone, 1,1,1-trichloro- (C...	160	C3H3Cl3O	000918-00-3	64
3	2-Propanone, 1,1,1-trichloro- $$...	160	C3H3Cl3O	000918-00-3	64
4	2-Propanone, 1,1,1-trichloro- (C...	160	C3H3Cl3O	000918-00-3	53





Library Search Compound Report

Data File : C:\MSDCHEM\1\5973N\02JAN16\00702.D Vial: 2
Acq On : 16 Jan 2002 3:57 pm Operator:
Sample : 508scan Inst : Instrumen
Misc : January 16, 2002 Multiplr: 1.00
MS Integration Params: LSCINT.P

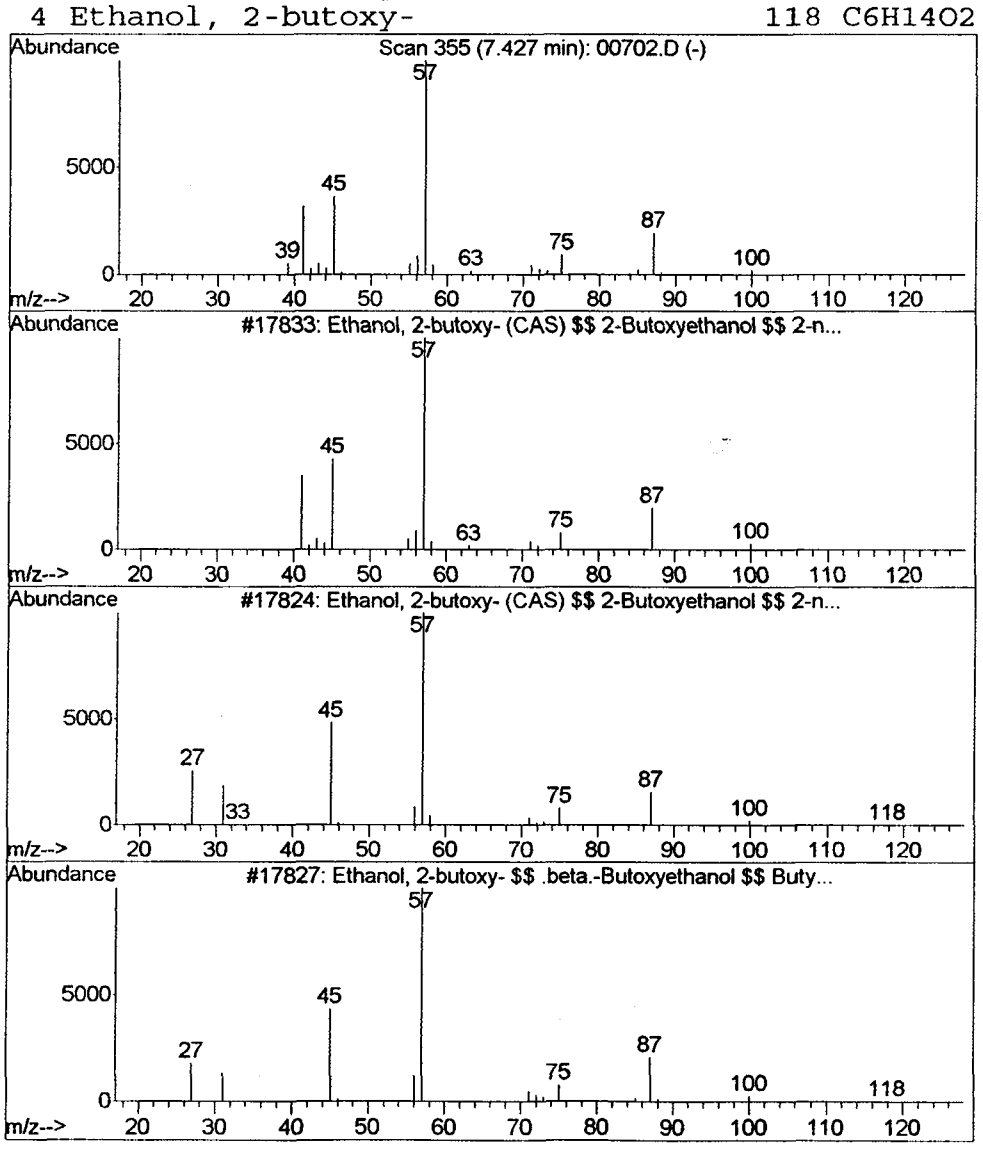
Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
Title : 508 scan method
Library : C:\DATABASE\WILEY7N.L

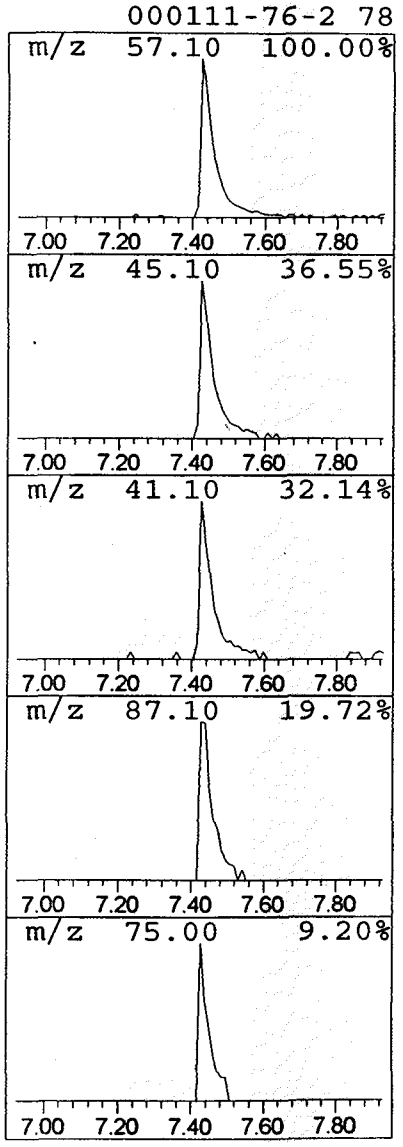
****

Peak Number 4 Ethanol, 2-butoxy- (CAS) $$... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.43	0.72 ug/L	263856	1,4-Dichlorobenzene-d4	9.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-butoxy- (CAS) $$ 2-Bu...	118	C6H14O2	000111-76-2	86
2	Ethanol, 2-butoxy- (CAS) $$ 2-Bu...	118	C6H14O2	000111-76-2	83
3	Ethanol, 2-butoxy- $$ .beta.-But...	118	C6H14O2	000111-76-2	83
4	Ethanol, 2-butoxy-	118	C6H14O2	000111-76-2	78





Library Search Compound Report

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Acq On : 16 Jan 2002 3:57 pm Operator:
Sample : 508scan Inst : Instrumen
Misc : January 16, 2002 Multiplr: 1.00
MS Integration Params: LSCINT.P

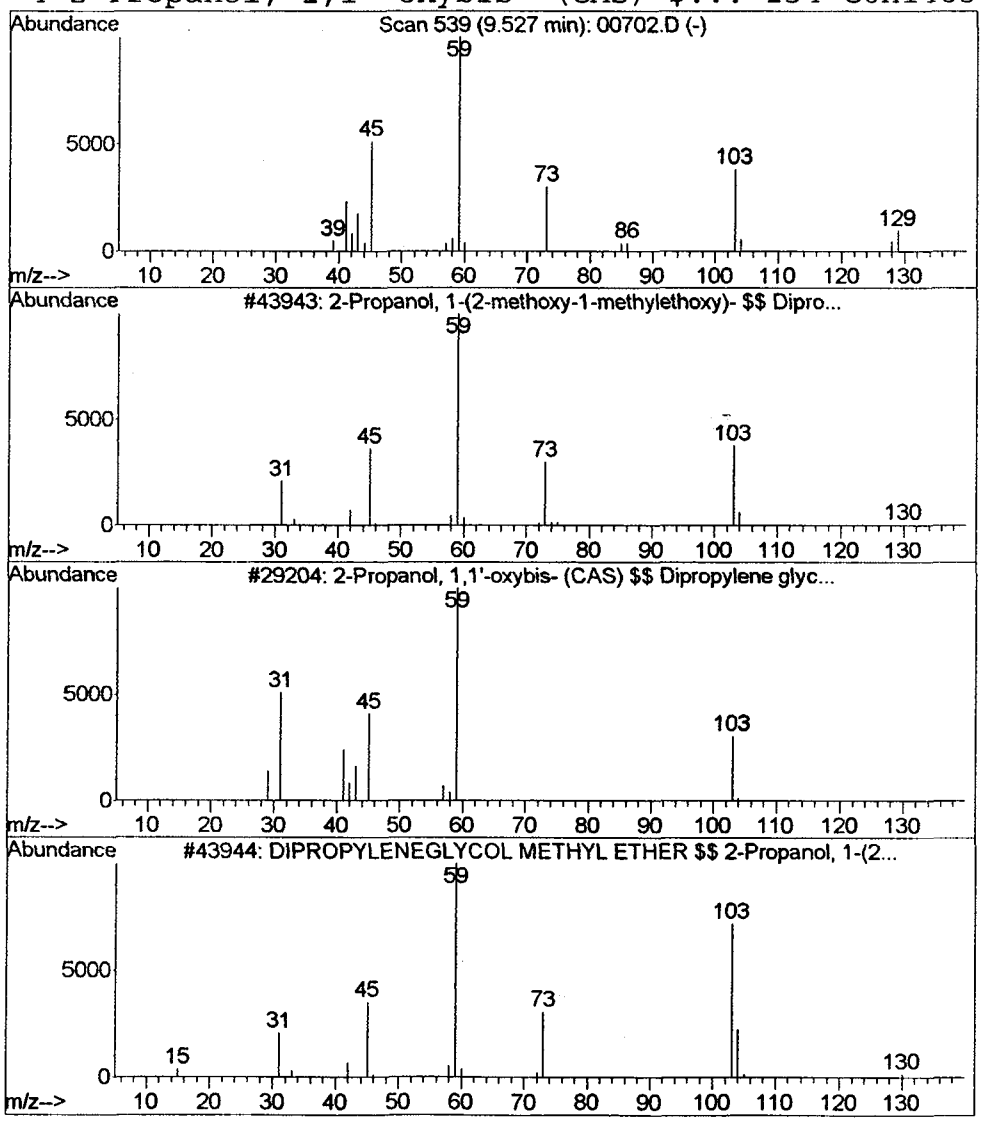
Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
Title : 508 scan method
Library : C:\DATABASE\WILEY7N.L

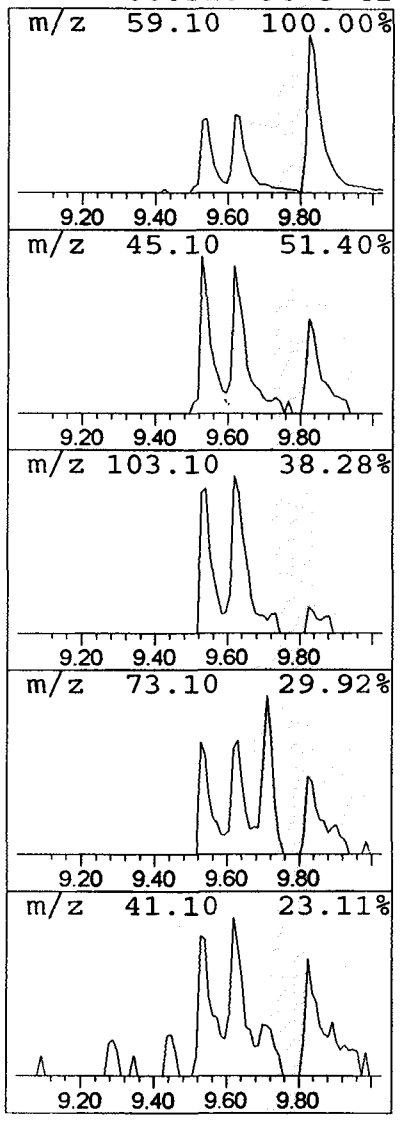
****

Peak Number 5 2-Propanol, 1-(2-methoxy-1-... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.53	0.33 ug/L	119298	1,4-Dichlorobenzene-d4	9.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-(2-methoxy-1-methy...	148	C7H16O3	020324-32-7	64
2	2-Propanol, 1,1'-oxybis- (CAS) $...	134	C6H14O3	000110-98-5	59
3	DIPROPYLENEGLYCOL METHYL ETHER $...	148	C7H16O3	020324-32-7	45
4	2-Propanol, 1,1'-oxybis- (CAS) $...	134	C6H14O3	000110-98-5	42





Data File : C:\MSDCHEM\1\5973N\02JAN16\00702.D Vial: 2
Acq On : 16 Jan 2002 3:57 pm Operator:
Sample : 508scan Inst : Instrumen
Misc : January 16, 2002 Multiplr: 1.00
MS Integration Params: LSCINT.P

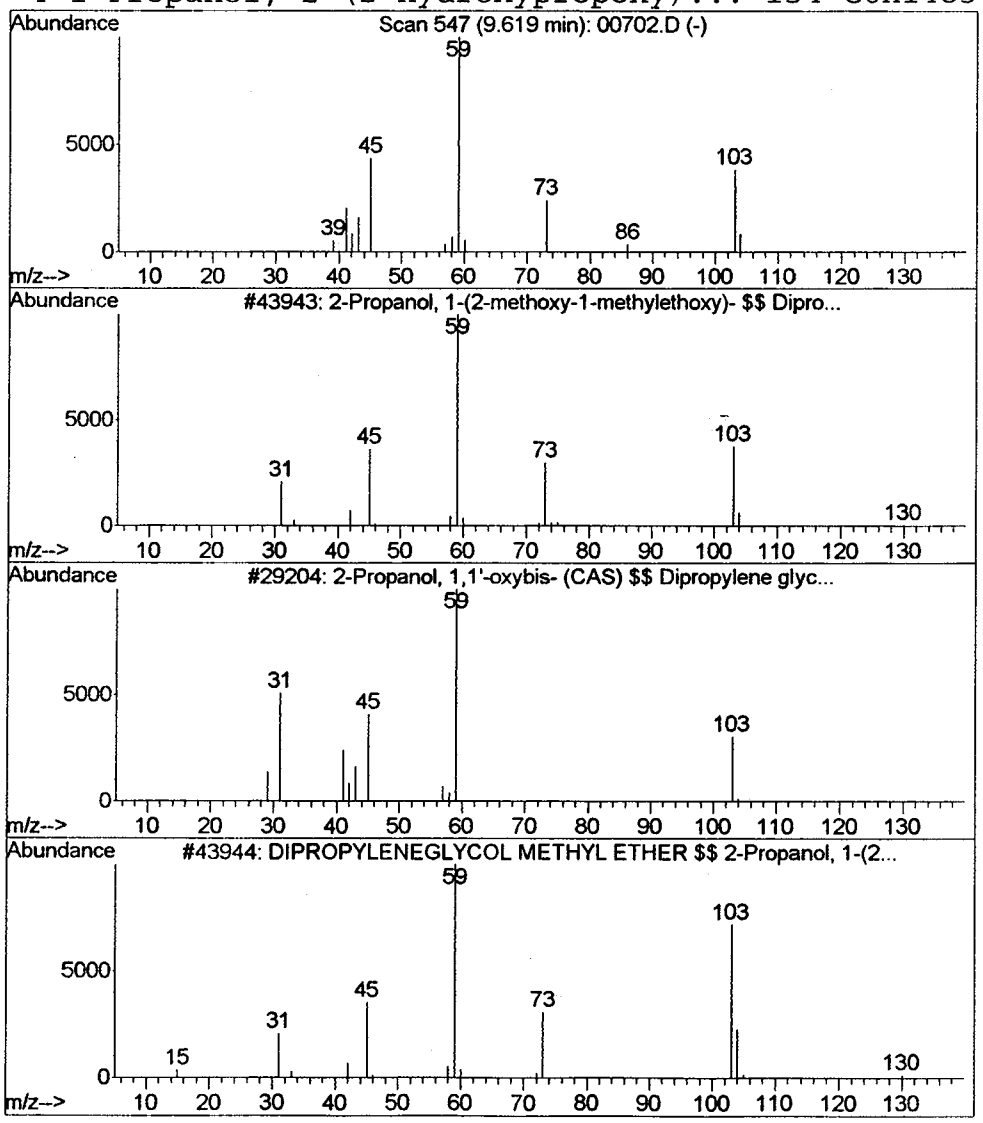
Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
Title : 508 scan method
Library : C:\DATABASE\WILEY7N.L

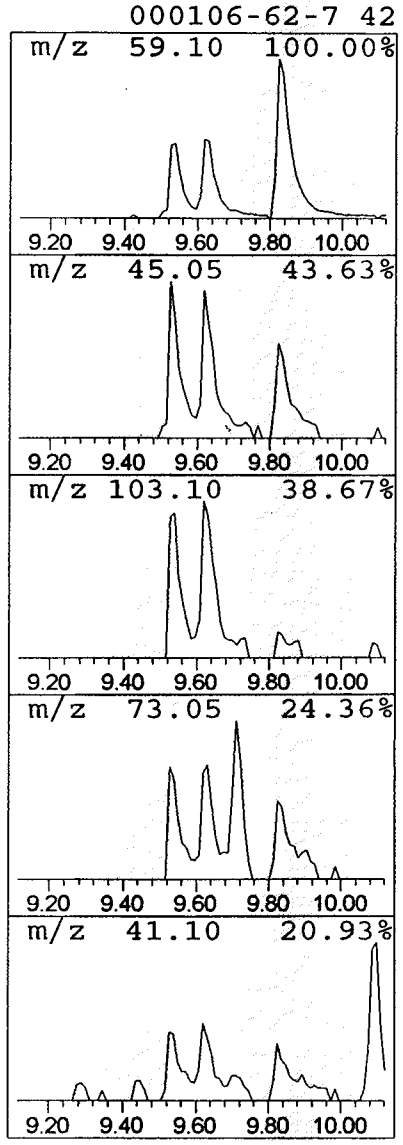
****

Peak Number 6 2-Propanol, 1-(2-methoxy-1-... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.62	0.26 ug/L	96094	1,4-Dichlorobenzene-d4	9.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-(2-methoxy-1-methy...	148	C7H16O3	020324-32-7	83
2	2-Propanol, 1,1'-oxybis- (CAS) $...	134	C6H14O3	000110-98-5	64
3	DIPROPYLENEGLYCOL METHYL ETHER $...	148	C7H16O3	020324-32-7	56
4	1-Propanol, 2-(2-hydroxypropoxy)...	134	C6H14O3	000106-62-7	42





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Acq On : 16 Jan 2002 3:57 pm Operator:
Sample : 508scan Inst : Instrumen
Misc : January 16, 2002 Multiplr: 1.00
MS Integration Params: LSCINT.P

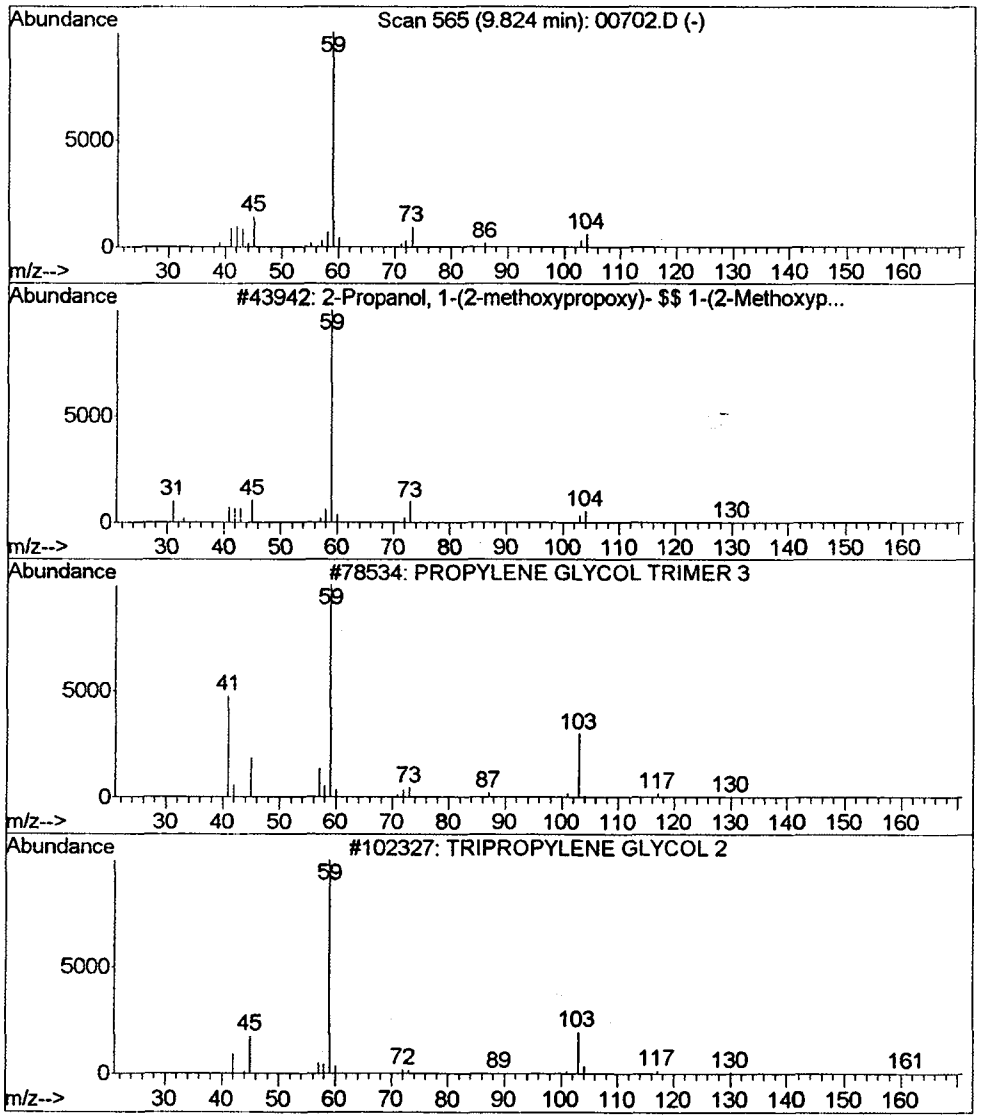
Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
Title : 508 scan method
Library : C:\DATABASE\WILEY7N.L

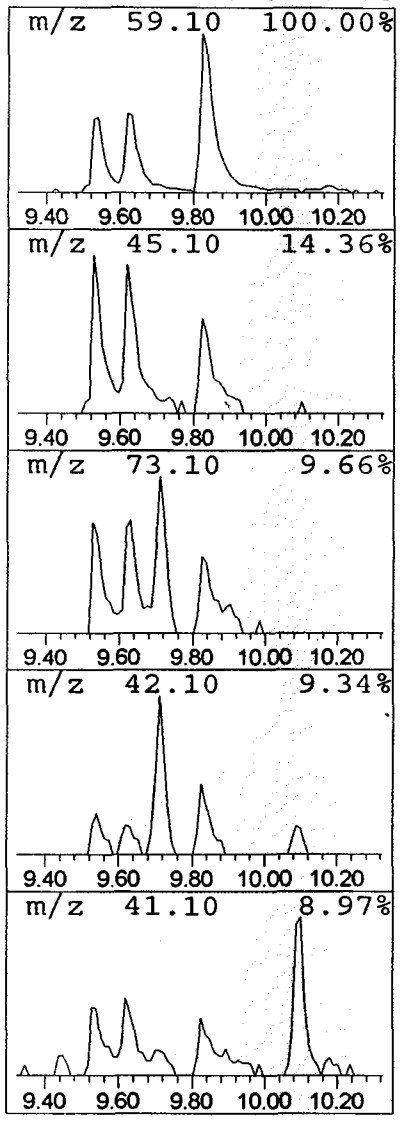
****

Peak Number 7 2-Propanol, 1-(2-methoxypro... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.82	0.40 ug/L	146304	1,4-Dichlorobenzene-d4	9.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-(2-methoxypropoxy)...	148	C7H16O3	013429-07-7	83
2	PROPYLENE GLYCOL TRIMER 3	174	C9H18O3	000000-00-0	72
3	TRIPROPYLENE GLYCOL 2	192	C9H20O4	000000-00-0	56
4	TRIPROPYLENE GLYCOL 1	192	C9H20O4	000000-00-0	56





Data File : C:\MSDCHEM\1\5973N\02JAN16\00702.D Vial: 2
Acq On : 16 Jan 2002 3:57 pm Operator:
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Misc : January 16, 2002 Multiplr: 1.00
MS Integration Params: LSCINT.P

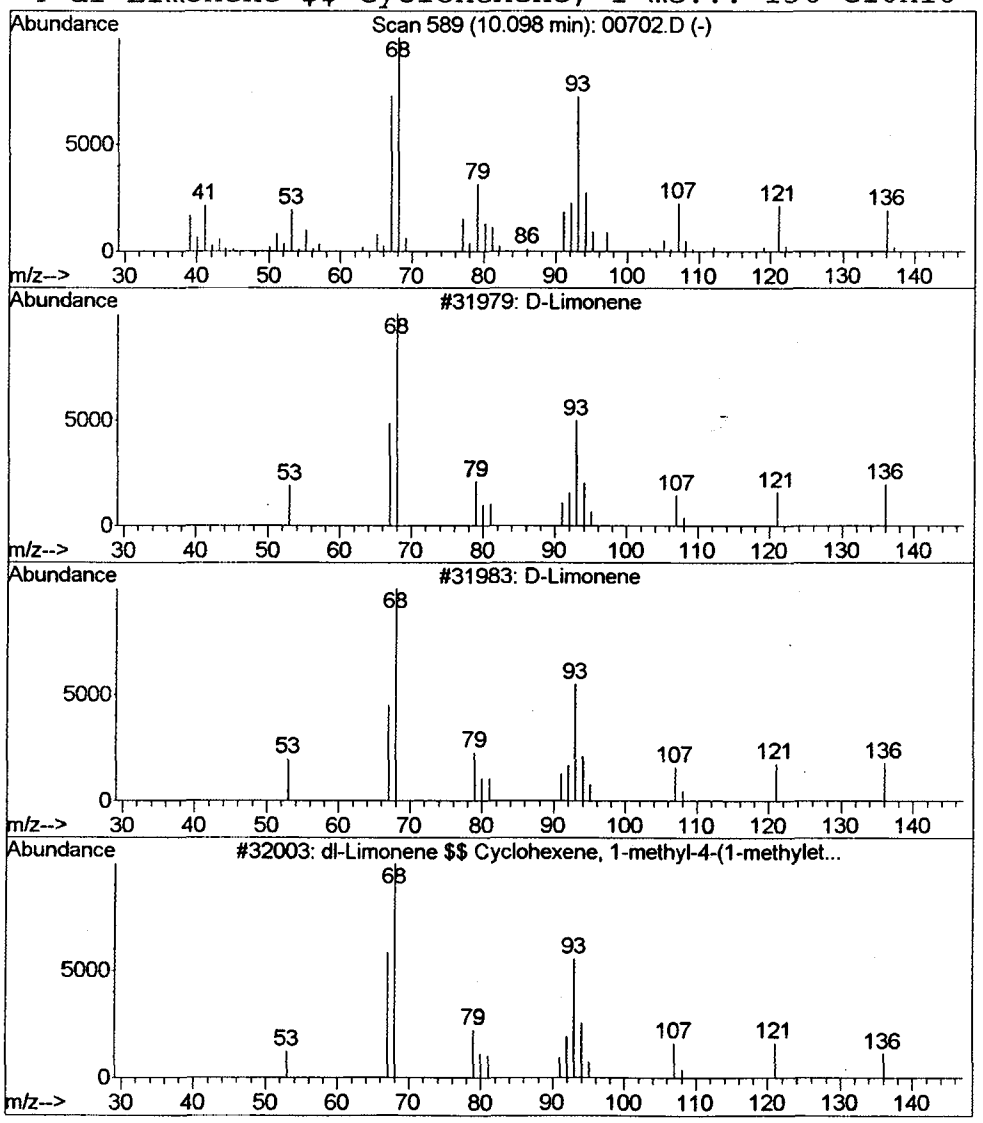
Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
Title : 508 scan method
Library : C:\DATABASE\WILEY7N.L

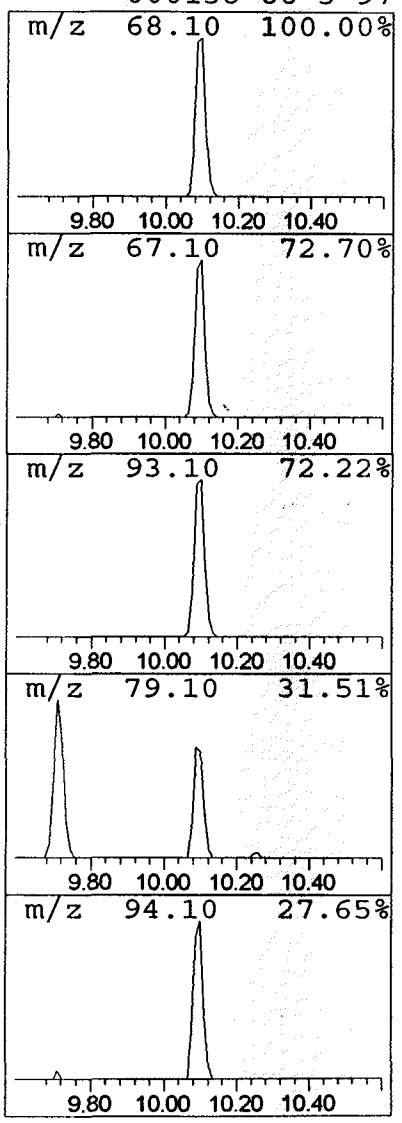
****

Peak Number 8 D-Limonene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.10	1.23 ug/L	450461	1,4-Dichlorobenzene-d4	9.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	D-Limonene	136	C10H16	005989-27-5	97
2	D-Limonene	136	C10H16	005989-27-5	97
3	dl-Limonene $$ Cyclohexene, 1-me...	136	C10H16	000138-86-3	97
4	dl-Limonene $$ Cyclohexene, 1-me...	136	C10H16	000138-86-3	97





Library Search Compound Report

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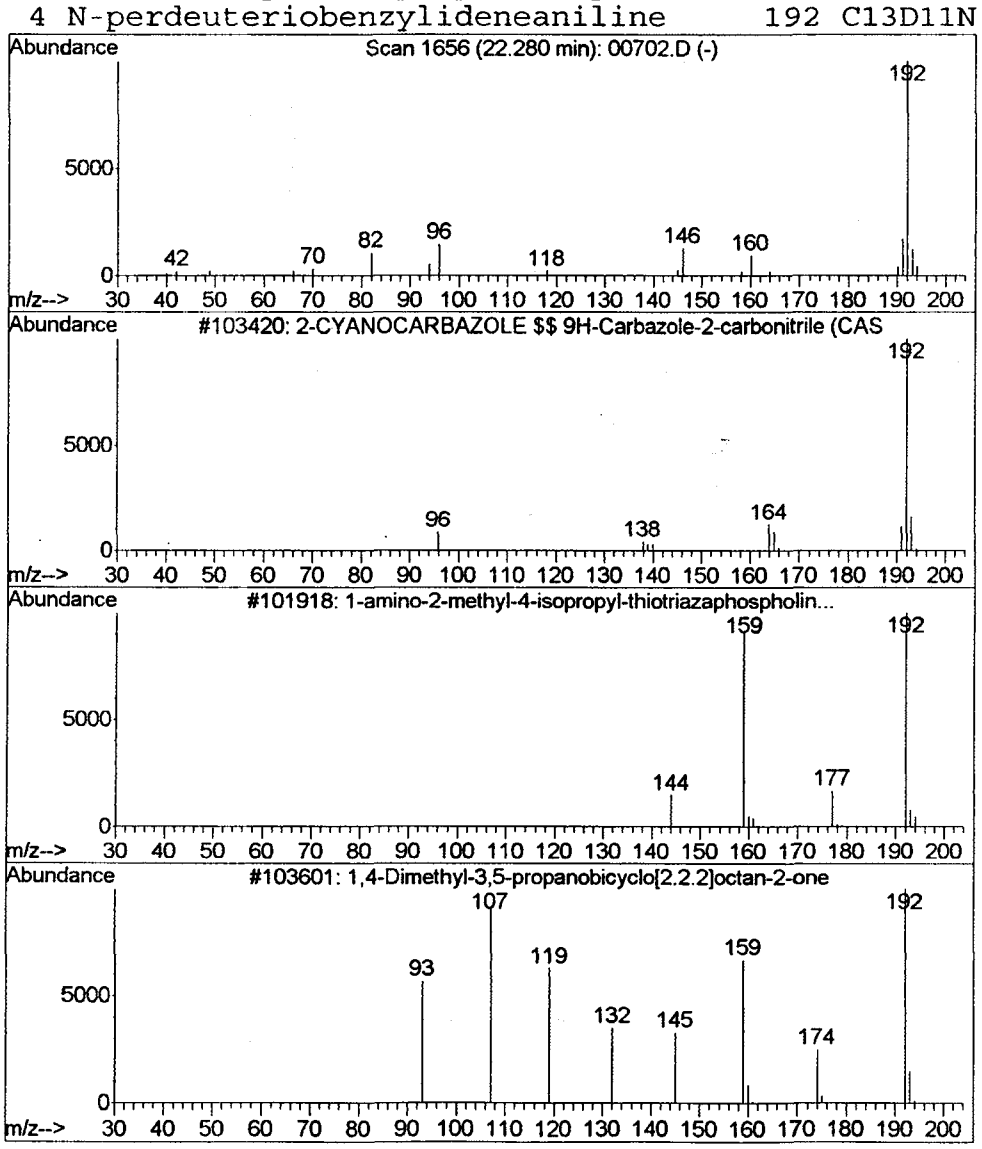
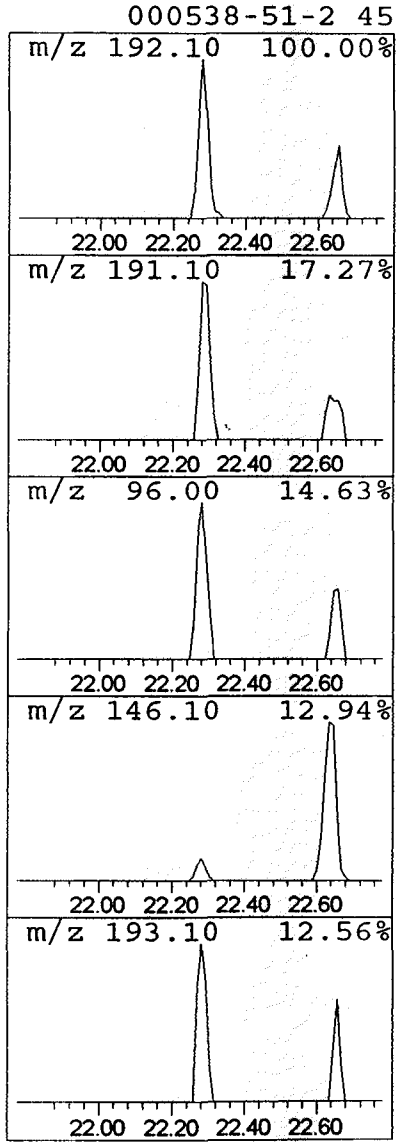
****

Peak Number 9 2-CYANOCARBAZOLE $$ 9H-Carb... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.28	0.16 ug/L	102670	Phenanthrene-d10	22.65

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-CYANOCARBAZOLE $$ 9H-Carbazole...	192	C13H8N2	057955-18-7	64
2	1-amino-2-methyl-4-isopropyl-thi...	192	C5H13N4PS	107264-54-0	50
3	1,4-Dimethyl-3,5-propanobicyclo[...	192	C13H20O	000000-00-0	47
4	N-perdeuteriobenzylideneaniline	192	C13D11N	000538-51-2	45





Library Search Compound Report

Data File : C:\MSDCHEM\1\5973N\02JAN16\00702.D Vial: 2
Acq On : 16 Jan 2002 3:57 pm Operator:
Sample : 508scan Inst : Instrumen
Misc : January 16, 2002 Multiplr: 1.00
MS Integration Params: LSCINT.P

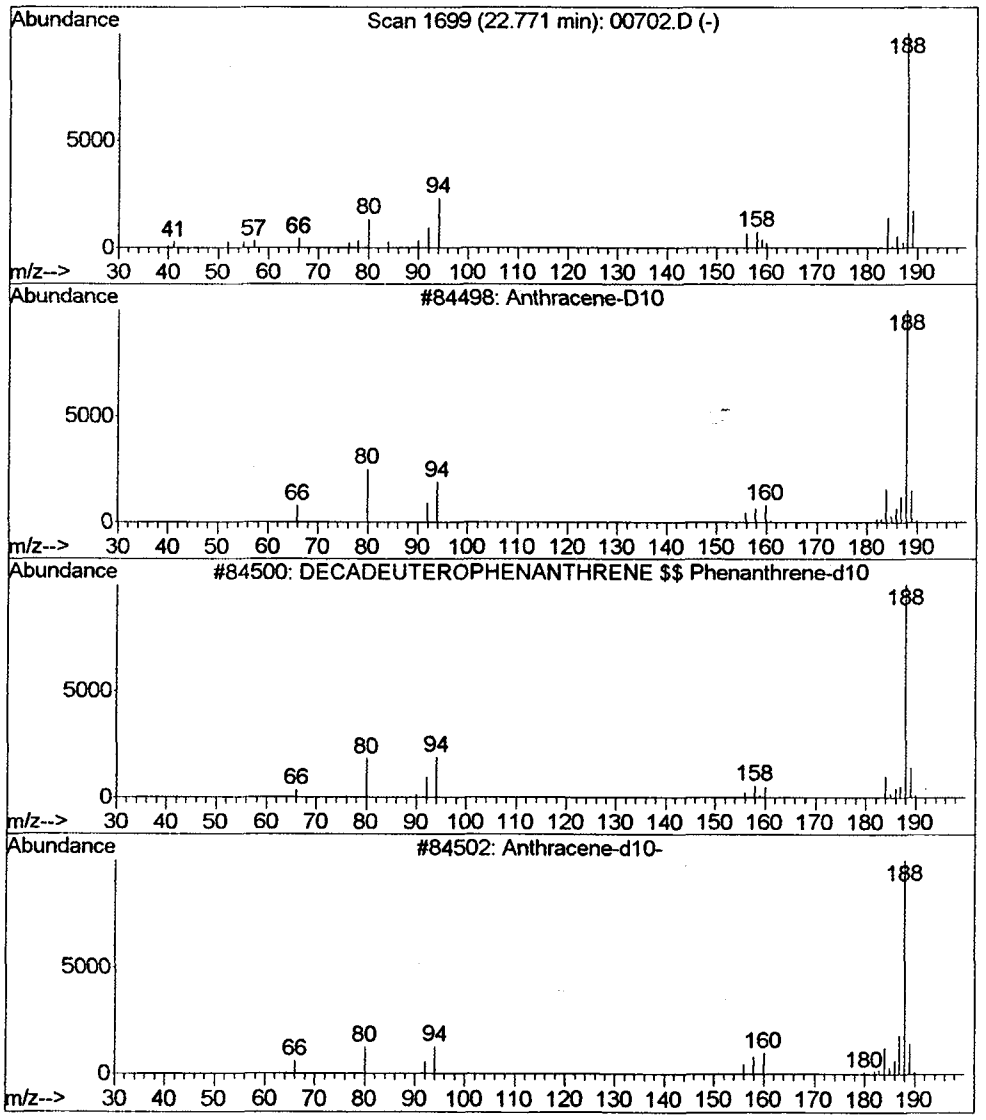
Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
Title : 508 scan method
Library : C:\DATABASE\WILEY7N.L

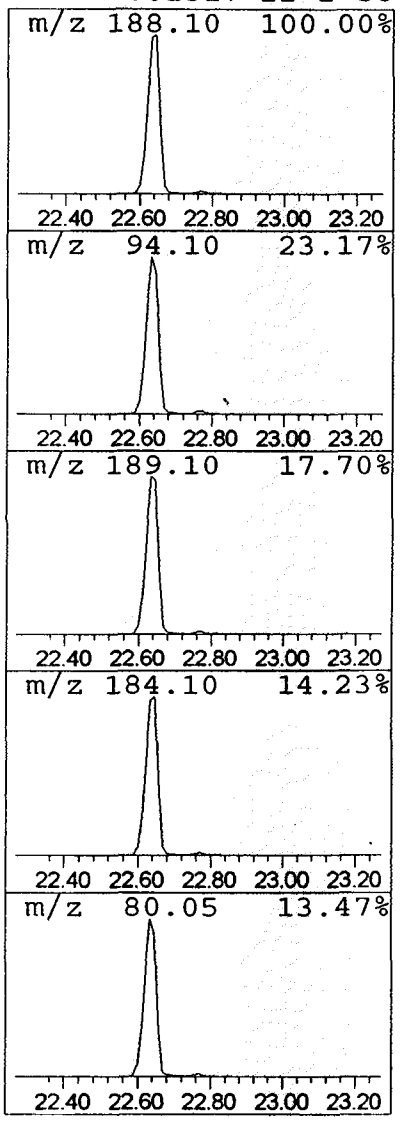
****

Peak Number 10 Anthracene-D10 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.77	0.26 ug/L	164519	Phenanthrene-d10	22.65

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene-D10	188	C14D10	000000-00-0	87
2	DECADEUTEROPHENANTHRENE $$ Phena...	188	C14D10	001517-22-2	87
3	Anthracene-d10-	188	C14D10	001719-06-8	80
4	Phenanthrene-d10	188	C14D10	001517-22-2	56





Library Search Compound Report

Data File : C:\MSDCHEM\1\5973N\02JAN16\00702.D Vial: 2
Acq On : 16 Jan 2002 3:57 pm Operator:
Sample : 508scan Inst : Instrumen
Misc : January 16, 2002 Multiplr: 1.00
MS Integration Params: LSCINT.P

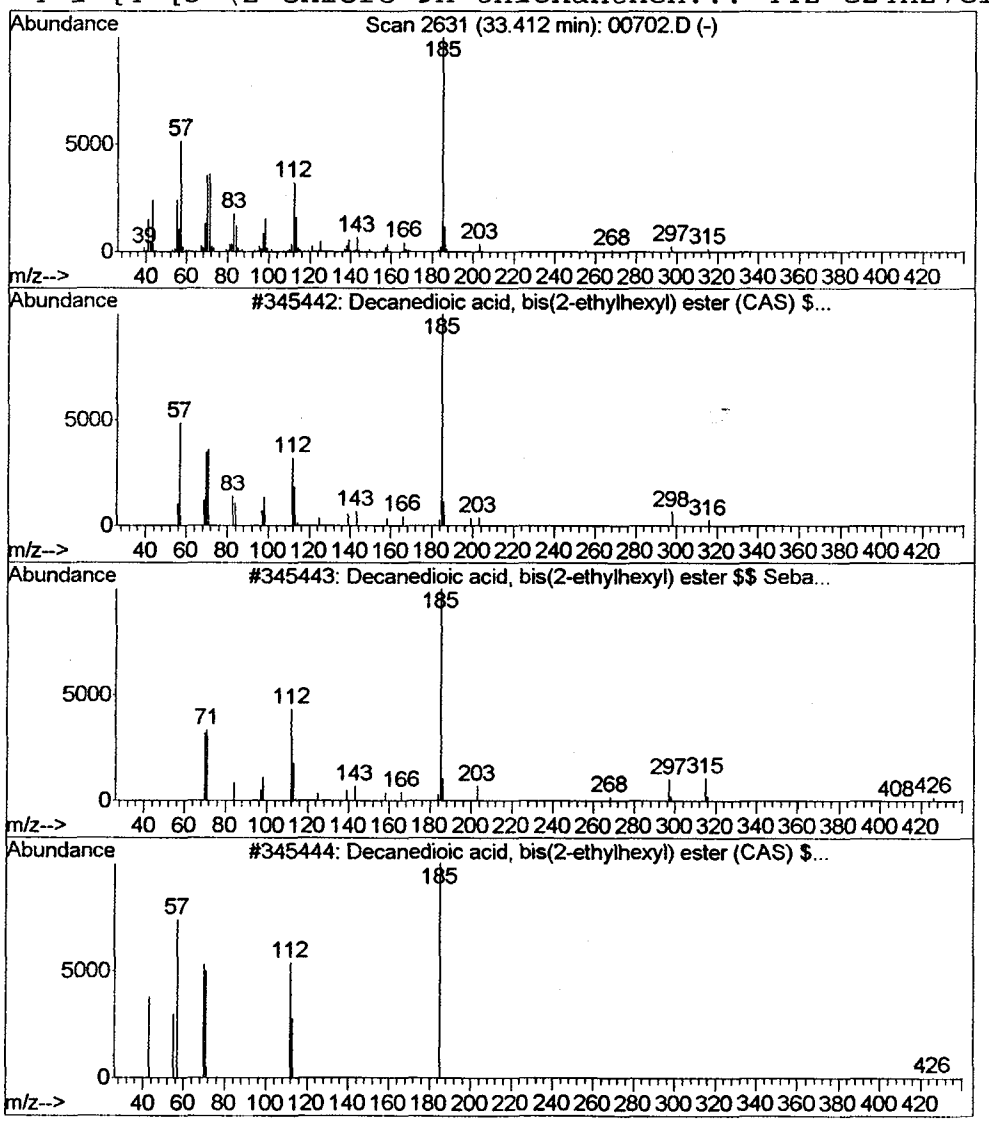
Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
Title : 508 scan method
Library : C:\DATABASE\WILEY7N.L

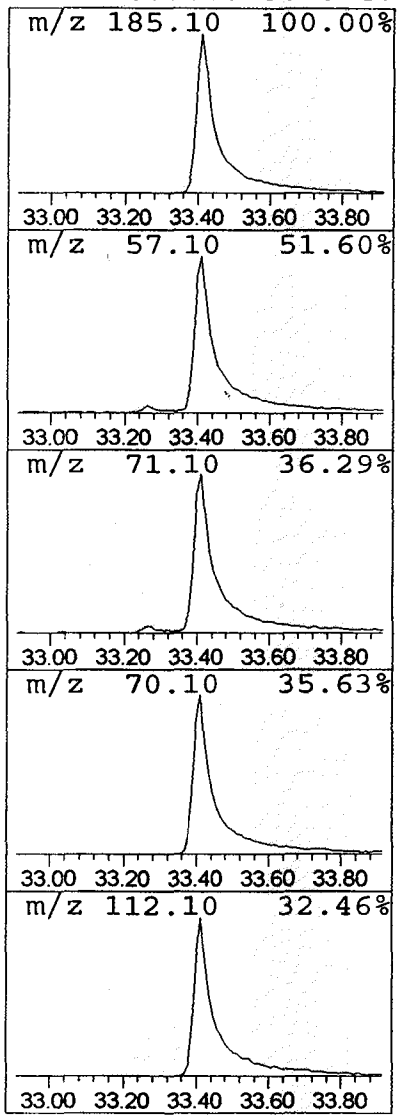
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
33.41	8.27 ug/L	4468420	Perylene-d12	34.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decanedioic acid, bis(2-ethylhex...	426	C26H50O4	000122-62-3	94
2	Decanedioic acid, bis(2-ethylhex...	426	C26H50O4	000122-62-3	72
3	Decanedioic acid, bis(2-ethylhex...	426	C26H50O4	000122-62-3	47
4	1-[4-[3-(2-chloro-9H-thioxahthen...	442	C24H27ClN2O2S	000000-00-0	47





Data File : C:\MSDCHEM\1\5973N\02JAN16\00702.D Vial: 2
Acq On : 16 Jan 2002 3:57 pm Operator:
Sample : 508scan Inst : Instrumen
Misc : January 16, 2002 Multiplr: 1.00
MS Integration Params: LSCINT.P

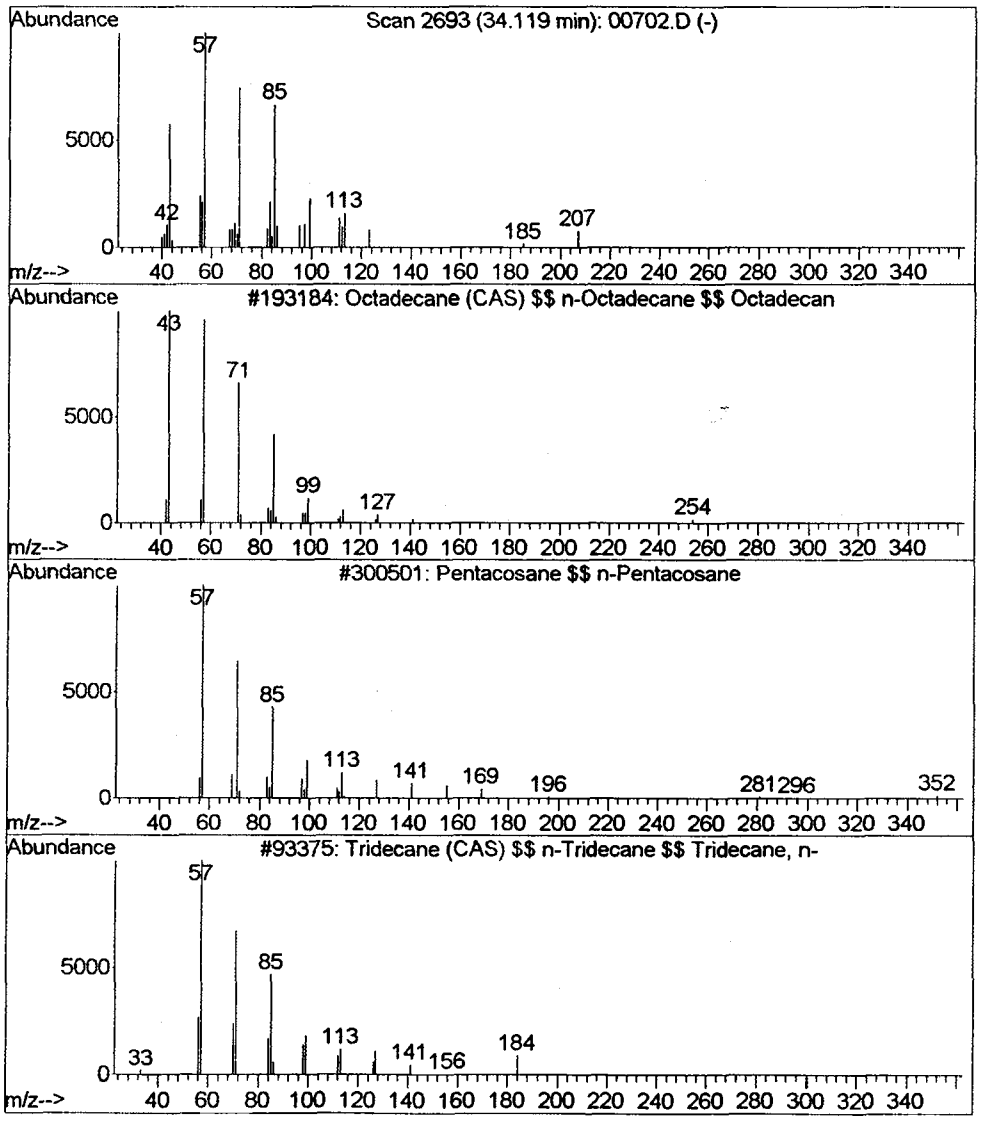
Quant Method : C:\MSDCHEM\1...\SCAN508.M (RTE Integrator)
Title : 508 scan method
Library : C:\DATABASE\WILEY7N.L

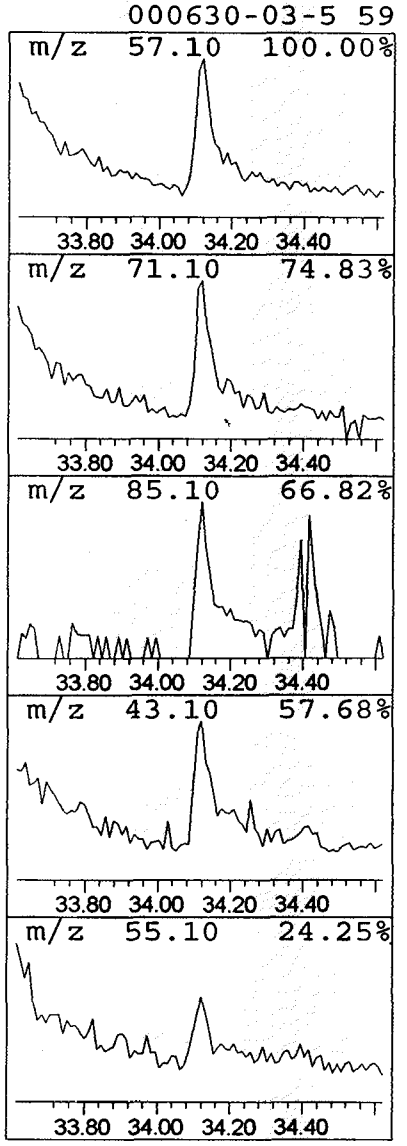
****

Peak Number 12 Octadecane (CAS) $$ n-Octad... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
34.12	0.21 ug/L	116079	Perylene-d12	34.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecane (CAS) $$ n-Octadecane...	254	C18H38	000593-45-3	72
2	Pentacosane $$ n-Pentacosane	352	C25H52	000629-99-2	64
3	Tridecane (CAS) $$ n-Tridecane $...	184	C13H28	000629-50-5	59
4	Nonacosane	408	C29H60	000630-03-5	59





Tentatively Identified Compound (ESD) Summary

Operator ID: Date Acquired: 16 Jan 2002 3:57 pm
Data File: C:\MSDCHEM\1\5973N\02JAN16\00702.D
Name: 508scan
Misc: January 16, 2002
Method: C:\MSDCHEM\1\METHODS\METHODS\SCAN508.M (RTE Integrator)
Title: 508 scan method
Library Searched: C:\DATABASE\WILEY7N.L

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
2-Butenal, 3-meth...	4.82	0.3	ug/L	99004	1	9.71	7337350	20.0
3-(CYCLOHEX-3-EN...	5.89	4.5	ug/L	1637740	1	9.71	7337350	20.0
2-Propanone, 1,1,...	6.00	0.3	ug/L	111019	1	9.71	7337350	20.0
Ethanol, 2-butoxy...	7.43	0.7	ug/L	263856	1	9.71	7337350	20.0
2-Propanol, 1-(2-...	9.53	0.3	ug/L	119298	1	9.71	7337350	20.0
2-Propanol, 1-(2-...	9.62	0.3	ug/L	96094	1	9.71	7337350	20.0
2-Propanol, 1-(2-...	9.82	0.4	ug/L	146304	1	9.71	7337350	20.0
D-Limonene	10.10	1.2	ug/L	450461	1	9.71	7337350	20.0
2-CYANOCARBAZOLE ...	22.28	0.2	ug/L	102670	4	22.65	12843000	20.0
Anthracene-D10	22.77	0.3	ug/L	164519	4	22.65	12843000	20.0
Docosadioic acid,...	33.41	8.3	ug/L	4468420	6	34.42	10802600	20.0
Tetradecane (CAS) ...	34.12	0.2	ug/L	116079	6	34.42	10802600	20.0