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PYROLYSIS GAS CHROMATOGRAPHY

ANALYSIS OF 5 THERMO-LAG

FIRE BARRIER SAMPLES

Performed For:

Wolf Creek Nuclear Operating Corp.
1550 Oxen Lane N. E.
P.O. Box 411
Burlington, KS 66839

P.O. No. 563516

17 April 1995

Distribution

WCNOC: **Mike Hancock**

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NUCON: **06WC814 Master File (1)**
Lab (1)

NUCON 06WC814/01

NUCON 06WC814/01

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Original Issue	W. P. Freeman	T. S. Keller
	03 May 1995	03 MAY 1995
	Date	Date

I. ABSTRACT

Inspection of the pyrograms of 5 Thermo-Lag fire barrier samples indicated that they are all similar in chemical composition.

II. OBJECTIVE

Pyrolysis Gas Chromatography (PGC) with Mass Selective Detection (MSD) was used to qualitatively compare five Thermo-Lag fire barrier samples.

III. DESCRIPTION OF METHOD

The samples were compared by pyrolysis gas chromatography using ASTM D3452 as a general guide. A Hewlett-Packard model 5890 series II gas chromatograph equipped with a Hewlett Packard model 5972 mass selective detector was used to generate chromatograms of the pyrolysis products. Pyrolysis of the Thermo-Lag samples were performed with a CDS pyroprobe mounted in an independently heated interface attached to the injection port of the GC. Analysis involves weighing 1-3 mgs. of sample in a quartz tube and placement of the tube in the platinum coil element of the probe. The probe is then placed in the interface and pyrolysed ballistically for 2 seconds. Pyrolytic products are then swept by the carrier gas onto the fused silica capillary column where they are separated and detected with a MSD. Chromatographic and pyrolysis conditions are shown in Table 1. Prior to each analysis, the column is heated to 250°C to elute any volatiles which were not entrained in the polymer.

IV. PRESENTATION OF RESULTS

The five pyrograms for each of the nine Thermo-Lag samples are shown in Figures 1, 3, 5, 7, 9. Figures 2, 4, 6, 8, 10 are extracted ion chromatograms using the acrylate base ion m/e of 55 common to ethyl acrylate (EA) and a m/e of 69 common to methyl methacrylate (MMA). The area ratios of these two peaks are shown in Table 2 for each sample. Following these two figures is attached a library search which identifies some of the major peaks for each sample tested and a summary area percent report.

V. DISCUSSION OF RESULTS

The area ratio of EA/MMA shown in Table 2 on the average (1.35) are consistent with the ratios obtained from other Thermo-Lag compounds (1.4), though the variability of 0.2 (1σ) is twice that expected (0.1 for 1 σ). The samples that contribute to this wider variance are 0395-10B, C and D. For sample 0395-10B, a 3 hour rated panel sample, a wider variance has been found for this subset of sample types and this value falls

within the expected range (1.4 ± 0.3, ± 2 σ). We also find identified in this sample's pyrogram the 3-methyl; 3, 5-dimethyl, 5-ethenyl-2-methyl pyridine compounds along with the triphenyl ester of phosphoric acid, octicizer, 2-phenoxy ethanol and the diethyl ester of pentanedioic acid typical as pyrolysis products of Thermo-Lag.

For sample 0395-10C, the EA/MMA ratio is within 3 σ of the expected value (1.4 ± 0.3) while also identified in the pyrogram are the 2, 5-dimethyl; 3, 5-dimethyl; trimethyl pyridine compounds along with 2-phenoxy ethanol, diethyl ester of pentanedioic acid and octicizer consistent as pyrolysis products of Thermo-Lag.

For sample 0395-10D, the EA/MMA ratio is within 2 σ of the expected value (1.4 ± 0.2). In addition, the expected pyridine compounds, phosphoric acid esters, and phenoxy ethanol are present, consistent with pyrolysis products of Thermo-Lag.

In conclusion, inspection of the pyrograms of these five Thermo-Lag sample indicate that they are consistent in terms of chemical composition.

TABLE 1

Chromatographic Conditions:

30 meter 0.25 mm narrow bore fused silica HP-5 CB capillary column.

Carrier Gas: Helium, 0.9 mL/min, split ratio 35:1

Column Conditions:

Initial Temperature: 50°C for 1 minute hold

Temperature Ramp: 8°C/min to 250°C

Final Temperature: Hold at 250°C for 10 minutes

Injector Temperature: 250°C

Detector Temperature: 280°C

Detector was an HP MSD in scan mode (30-550 amu)

Pyrolysis Conditions:

Pyrolysis Temperature: 650°C

Interval: 2 seconds

Ramp: 2°C/millisecond

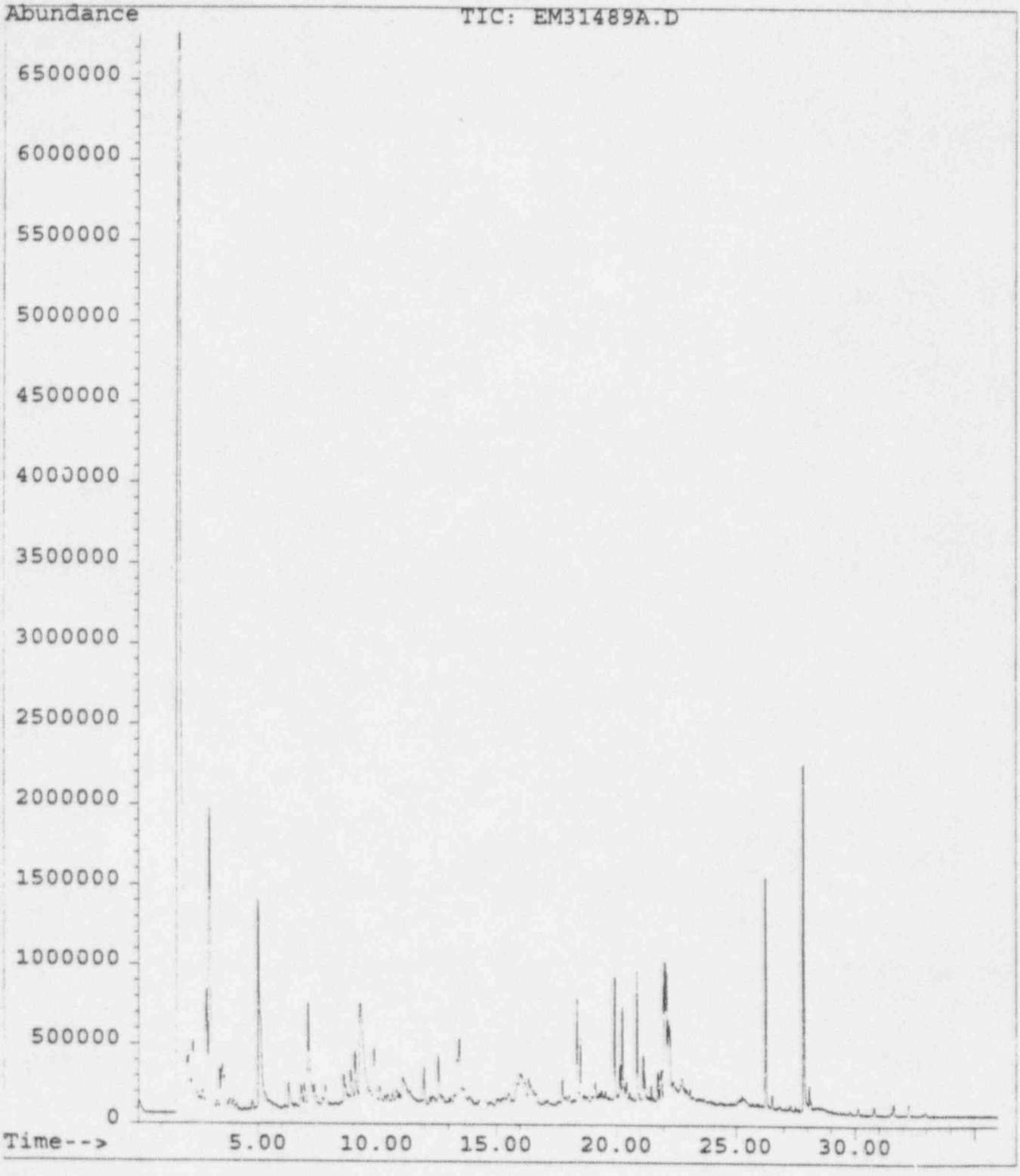
Probe Type: Platinum Coil

Interface Temperature: 205°C

TABLE 2	
Sample	**EA/MMA Ratio**
NUCON Lab Log # 0395-10A 3 hour conduit, area A-33, 1U1041	1.36
NUCON Lab Log # 0395-10B 3 hour panel, area A-33, J-Box between 1U1039 & 1U1037	1.17
NUCON Lab Log # 0395-10C 1 hour conduit, warehouse Lot # 40180	1.67
NUCON Lab Log # 0395-10D 1 hour panel, warehouse Lot #64659	1.15
NUCON Lab Log # 0395-10E Trowel grade, area A-33 Between 1U1037 & 1U1040	1.40
Average	1.35 ± 0.2

File : C:\HPCHEM\1\DATA\EM31489A.D
Operator : Marti
Acquired : 13 Mar 95 2:47 pm using AcqMethod EM31492
Instrument : 5972 - 33
Sample Name: 0395-10a
Misc Info : Pyrolysis of thermolag samples
Vial Number: 1

FIGURE 1



File : C:\HPCHEM\1\DATA\EM31489A.D
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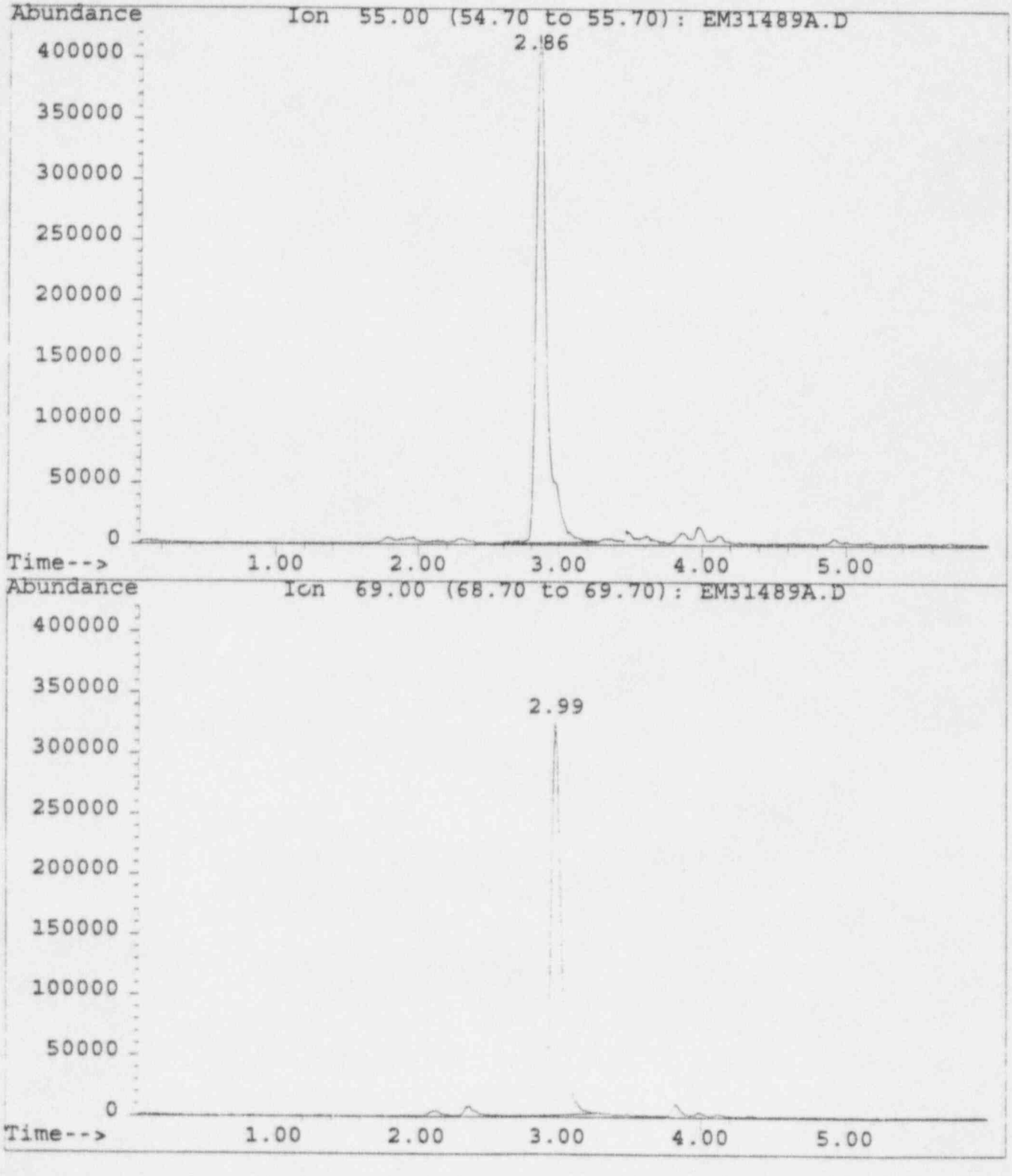
Acquired : 13 Mar 95 2:47 pm using AcqMethod EM31492
Instrument : 5972 - 33
Sample Name: 0395-10a
Misc Info : Pyrolysis of thermolag samples
Vial Number: 1

FIGURE 2



Information from Data File:
File : C:\HPCHEM\1\DATA\EM31489A.D
Operator : Marti
Acquired : 13 Mar 95 2:47 pm using AcqMethod EM31492
Sample Name: 0395-10a
Misc Info : Pyrolysis of thermolag samples
Vial Number: 1

Search Libraries: C:\DATABASE\NBS75K.L Minimum Quality: 0

Unknown Spectrum: Apex
Integration Params: AutoIntegrate

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	1.71	40.72	C:\DATABASE\NBS75K.L			
			No matches found			
2	2.30	2.30	C:\DATABASE\NBS75K.L			
			Furan, 2-methyl-	463	000534-22-5	81
			Furan, 2-methyl-	62665	000534-22-5	64
			Furan, 2-methyl-	62666	000534-22-5	59
3	2.71	0.37	C:\DATABASE\NBS75K.L			
			Furan, 2-methyl-	463	000534-22-5	76
			Furan, 2-methyl-	62665	000534-22-5	70
			Furan, 2-methyl-	62666	000534-22-5	53
4	2.86	1.64	C:\DATABASE\NBS75K.L			
			2-Propenoic acid, ethyl ester	63318	000140-88-5	91
			2-Propenoic acid, ethyl ester	63320	000140-88-5	87
			2-Propenoic acid, ethyl ester	63319	000140-88-5	83
5	2.98	5.50	C:\DATABASE\NBS75K.L			
			2-Propenoic acid, 2-methyl-, 3-hyd	8333	002761-09-3	72
			2-Propenoic acid, 2-methyl-, methy	63329	000080-62-6	58
			2-Propenoic acid, 2-methyl-, methy	63330	000080-62-6	52
6	3.52	1.64	C:\DATABASE\NBS75K.L			
			1-Decyne	7027	000764-93-2	43
			1H-Pyrrole, 1-methyl-	62654	000096-54-8	38
			1H-Pyrrole, 1-methyl-	446	000096-54-8	38
7	5.03	4.68	C:\DATABASE\NBS75K.L			
			Pyridine, 3-methyl-	63044	000108-99-6	97
			Pyridine, 3-methyl-	981	000108-99-6	95
			Pyridine, 3-methyl-	63045	000108-99-6	95
8	6.30	0.45	C:\DATABASE\NBS75K.L			
			Pyridine, 2,5-dimethyl-	2046	000589-93-5	95
			Pyridine, 2,5-dimethyl-	63719	000589-93-5	93
			Pyridine, 2,3-dimethyl-	63734	000583-61-9	92
9	6.83	0.36	C:\DATABASE\NBS75K.L			
			Pyridine, 3-ethyl-	63740	000536-78-7	96
			Pyridine, 2,5-dimethyl-	2046	000589-93-5	91
			Pyridine, 3-ethyl-	2055	000536-78-7	81

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
10	6.95	0.37	C:\DATABASE\NBS75K.L			
			Pyridine, 3-ethenyl-	1970	001121-55-7	76
			Pyridine, 2-ethenyl-	1972	000100-69-6	58
			Pyridine, 4-ethenyl-	1971	000100-43-6	52
11	7.12	1.98	C:\DATABASE\NBS75K.L			
			Pyridine, 3,5-dimethyl-	2047	000591-22-0	95
			Pyridine, 3,4-dimethyl-	2050	000583-58-4	95
			Pyridine, 3,5-dimethyl-	63720	000591-22-0	91
12	7.37	0.55	C:\DATABASE\NBS75K.L			
			Pyridine, 4-ethyl-	63729	000536-75-4	38
			Pyridine, 4-ethyl-	63730	000536-75-4	38
			Pyridine, 4-ethyl-	2051	000536-75-4	38
13	7.85	0.58	C:\DATABASE\NBS75K.L			
			Pyridine, 2-ethyl-6-methyl-	3834	001122-69-6	43
			Benzenamine, N-(1-methylethyl)-	6310	000768-52-5	35
			1H-Pyrrole-2-acetonitrile, 1-methy	3744	024437-41-0	35
14	8.65	1.11	C:\DATABASE\NBS75K.L			
			Pyridine, 2,3,6-trimethyl-	3822	001462-84-6	60
			Pyridine, 2,3,5-trimethyl-	3839	000695-98-7	60
			Benzenamine, 3,5-dimethyl-	3837	000108-69-0	46
15	8.93	0.74	C:\DATABASE\NBS75K.L			
			Pyridine, 3-ethyl-5-methyl-	3821	003999-78-8	93
			Pyridine, 5-ethyl-2-methyl-	64621	000104-90-5	64
			Aniline, 2-ethyl-	64597	000587-02-0	60
16	9.11	0.98	C:\DATABASE\NBS75K.L			
			Pyridine, 5-ethenyl-2-methyl-	3656	000140-76-1	93
			Benzoic acid, 2,5-dimethyl-, (2,4-	37433	055000-48-1	42
			Benzene, 1-methyl-4-(1-methylethyl	65535	000099-87-6	38
17	9.33	5.13	C:\DATABASE\NBS75K.L			
			Benzenamine, 4-propoxy-	10015	004469-80-1	59
			Phenol, 4-amino-	2211	000123-30-8	52
			Nerinine	48936	000481-44-7	50
18	9.91	1.14	C:\DATABASE\NBS75K.L			
			1H-Pyrrole, 2,3,4,5-tetramethyl-	4056	001003-90-3	87
			Borane, ethylbis(2,3,4,5-tetrameth	40184	028916-15-6	56
			5-Dimethylaminopyrimidine	4021	031401-46-4	38
19	10.15	0.39	C:\DATABASE\NBS75K.L			
			Quinoline, 1,2,3,4-tetrahydro-	65454	000635-46-1	38
			Quinoline, 5,6,7,8-tetrahydro-	6001	010500-57-9	30
			Thiourea, tetramethyl-	5727	002782-91-4	27
20	11.09	1.80	C:\DATABASE\NBS75K.L			
			1H-Pyrrole, 3-ethyl-2,5-dimethyl-	4061	069687-78-1	58
			1H-Pyrrole, 2-ethyl-3,5-dimethyl-	4057	032990-59-3	52
			1H-Pyrrole, 3-ethyl-2,4-dimethyl-	64742	000517-22-6	52

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
21	11.98	0.54	C:\DATABASE\NBS75K.L			
			Pentanedioic acid, 2-methyl-, mono	12301	072088-36-9	32
			Dimethyl ethylbutane-1,4-dioate	16107	000000-00-0	16
			6-Heptenoic acid, 3-oxo-, methyl e	11390	030414-57-4	15
22	12.58	0.82	C:\DATABASE\NBS75K.L			
			Pentanedioic acid, diethyl ester	19778	000818-38-2	81
			Pentanedioic acid, diethyl ester	69155	000818-38-2	58
			Pentanedioic acid, diethyl ester	69156	000818-38-2	53
23	13.45	2.17	C:\DATABASE\NBS75K.L			
			Piperidine, 1-methyl-	63293	000626-67-5	38
			3-Ethoxy-2-methyl-2-cyclohexen-1-o	10788	020643-20-3	35
			Piperidine, 1-(ethoxymethyl)-	8191	003275-13-6	30
24	16.03	2.22	C:\DATABASE\NBS75K.L			
			Hydrazine, 1,1-dimethyl-2-(1-methy	5486	075267-97-9	38
			Butanamide, 3-methyl-	1621	000541-46-8	38
			Pentanamide, 4-methyl-	3136	001119-29-5	38
25	16.38	1.27	C:\DATABASE\NBS75K.L			
			Ethanol, 2-(2-phenoxyethoxy)-	18349	000104-68-7	46
			Butanamide	62880	000541-35-5	30
			1-Propanol, 3-[3-(1-methylethoxy)p	16653	054518-03-5	27
26	17.75	0.57	C:\DATABASE\NBS75K.L			
			Phenol, 4-(1,1,3,3-tetramethylbuty	24424	000140-66-9	93
			Phenol, 4-(2,2,4-trimethylpentyl)-	24397	000000-00-0	64
			Phenol, 4-(1,1,3,3-tetramethylbuty	70047	000140-66-9	52
27	18.35	1.09	C:\DATABASE\NBS75K.L			
			2,5,8,11,14-Pentaoxapentadecane	70592	000143-24-8	47
			1-Propanol, 2-(2-hydroxypropoxy)-	6086	000106-62-7	47
			2-Propanol, 1-[1-methyl-2-(2-prope	16196	055956-25-7	43
28	18.49	0.92	C:\DATABASE\NBS75K.L			
			2-Propanol, 1-[2-(2-methoxy-1-meth	24251	020324-33-8	38
			2,5,8,11,14,17-Hexaoxaoctadecane	36869	001191-87-3	38
			1-Propanol, 2-(2-hydroxypropoxy)-	6086	000106-62-7	38
29	19.11	0.34	C:\DATABASE\NBS75K.L			
			Diazene, [1-(2,2-dimethylhydrazino	15672	061940-94-1	43
			Pentanamide	1620	000626-97-1	38
			Butanamide	62880	000541-35-5	38
30	19.93	0.95	C:\DATABASE\NBS75K.L			
			Benzo[b]thiophene, 2-(butylthio)-	28074	054965-46-7	20
			7,8-Dihydro-2-methyl(6H)pyrazolo[3	27965	000000-00-0	16
			Flavone	70612	000525-82-6	11
31	20.27	1.30	C:\DATABASE\NBS75K.L			
			Phenol, 2-(2-quinoxalinyl)-	28139	017392-20-0	35
			Benzo[b]thiophene, 2-(butylthio)-	28074	054965-46-7	22
			3,5-Dimethoxybenzylamine	14279	034967-24-3	20

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
32	20.44	0.21	C:\DATABASE\NBS75K.L			
			Nonadecane, 2,3-dimethyl-	42198	075163-99-4	46
			Hexadecane	70788	000544-76-3	46
			Tetradecane	69661	000629-59-4	46
33	20.89	0.91	C:\DATABASE\NBS75K.L			
			4-Butyloxy-2-hydroxybenzamidine	24821	000000-00-0	20
			Pyridine, 2,6-diethyl-	6323	000935-28-4	18
			2-Ethyl-3,5-dimethylpyridine	6325	001123-96-2	14
34	21.16	0.73	C:\DATABASE\NBS75K.L			
			1,2,4-Benzenetricarboxylic acid	25229	000528-44-9	16
			4-Amino-2-methyl-5,6-trimethylenep	9460	076881-49-7	15
			2-Propenoic acid, 3-(4-fluoropheny	21199	087087-42-1	11
35	21.49	0.16	C:\DATABASE\NBS75K.L			
			1'H-Androst-16-eno[17,16-g]indol-3	54335	056196-20-4	22
			1'H-Androst-16-eno[17,16-b]indol-3	54336	039987-70-7	12
			12,13-Dihydro-12-methyl-13,14-diox	46505	059050-19-0	12
36	21.78	0.27	C:\DATABASE\NBS75K.L			
			Pyrido[3,2-d]pyrimidine-2,4(1H,3H)	24033	016953-81-4	50
			5,9-Methanobenzocycloocten-5(1H)-o	38886	016004-84-5	49
			5,9-Methanobenzocycloocten-4(1H)-o	38853	006244-16-2	47
37	21.90	0.48	C:\DATABASE\NBS75K.L			
			2-Propanol, 1-[1-methyl-2-(2-prope	68438	055956-25-7	50
			Butanamide, 3-methyl-	1621	000541-46-8	46
			Butane, 2-methoxy-	854	006795-87-5	43
38	22.08	6.08	C:\DATABASE\NBS75K.L			
			2-Propanol, 1-[1-methyl-2-(2-prope	68438	055956-25-7	47
			1-Propanol, 2-(2-methoxypropoxy)-	9232	013588-28-8	43
			Propanoic acid, 2-hydroxy-2-methyl	3494	002110-78-3	43
39	22.79	0.67	C:\DATABASE\NBS75K.L			
			Butanamide, 3-methyl-	1621	000541-46-8	47
			1-Propanol, 2-(2-hydroxypropoxy)-	6086	000106-62-7	35
			2-Propanol, 1,1'-[(1-methyl-1,2-et	20630	001638-16-0	35
40	26.25	2.00	C:\DATABASE\NBS75K.L			
			7-Amino-2,3-dihydro-5-phenyl-1H-1,	34112	004928-02-3	53
			Octicizer	50542	001241-94-7	45
			2-(4-Cyanophenyl)-5-dimethylaminom	34091	000000-00-0	42
41	26.53	0.20	C:\DATABASE\NBS75K.L			
			4-Methyl-2,6-dihydroxyquinoline	16455	034982-01-9	28
42	27.86	3.34	C:\DATABASE\NBS75K.L			
			Octicizer	50542	001241-94-7	93
			7-Amino-2,3-dihydro-5-phenyl-1H-1,	34112	004928-02-3	59
			2-(4-Cyanophenyl)-5-dimethylaminom	34091	000000-00-0	45
43	28.10	0.34	C:\DATABASE\NBS75K.L			
			4H-Pyrido[1,2-a]pyrimidine-3-aceti	33437	050609-61-5	28

Area Percent Report -- Sorted by Signal

Information from Data File:
File : C:\HPCHEM\1\DATA\EM31489A.D
Operator : Marti
Acquired : 13 Mar 95 2:47 pm using AcqMethod EM31492
Sample Name: 0395-10a
Misc Info : Pyrolysis of thermolag samples
Vial Number: 1
CurrentMeth: C:\HPCHEM\1\METHODS\EM31492.M

Retention Time	Area	Area %	Ratio %
Total Ion Chromatogram			
1.707	769309602	40.719	100.000
2.301	43462737	2.300	5.650
2.702	6959161	0.368	0.905
2.862	30992515	1.640	4.029
2.986	103922485	5.501	13.509
3.516	30912999	1.636	4.018
5.036	88434259	4.681	11.495
6.301	8487128	0.449	1.103
6.829	6763728	0.358	0.879
6.958	6903203	0.365	0.897
7.123	37468330	1.983	4.870
7.368	10428535	0.552	1.356
7.849	10905475	0.577	1.418
8.643	21065510	1.115	2.738
8.937	13944651	0.738	1.813
9.118	18608914	0.985	2.419
9.330	96955532	5.132	12.603
9.916	21592353	1.143	2.807
10.155	7439902	0.394	0.967
11.098	33974681	1.798	4.416
11.976	10236720	0.542	1.331
12.579	15437849	0.817	2.007
13.459	41030977	2.172	5.333
16.037	41881782	2.217	5.444
16.377	24058192	1.273	3.127
17.749	10687373	0.566	1.389
18.351	20616346	1.091	2.680
18.493	17397737	0.921	2.261
19.109	6456286	0.342	0.839
19.934	17888526	0.947	2.325
20.265	24503626	1.297	3.185
20.441	3997301	0.212	0.520
20.892	17269000	0.914	2.245
21.161	13726525	0.727	1.784
21.498	3007919	0.159	0.391

Area Percent Report -- Sorted by Signal

Information from Data File:
File : C:\HPCHEM\1\DATA\EM31489A.D
Operator : Marti
Acquired : 13 Mar 95 2:47 pm using AcqMethod EM31492
Sample Name: 0395-10a
Misc Info : Pyrolysis of thermolag samples
Vial Number: 1
CurrentMeth: C:\HPCHEM\1\METHODS\EM31492.M

Retention Time	Area	Area %	Ratio %
21.776	5040608	0.267	0.655
21.900	9011487	0.477	1.171
22.084	114820481	6.077	14.925
22.792	12738960	0.674	1.656
26.255	37725863	1.997	4.904
26.525	3686067	0.195	0.479
27.860	63169230	3.344	8.211
28.097	6382697	0.338	0.830

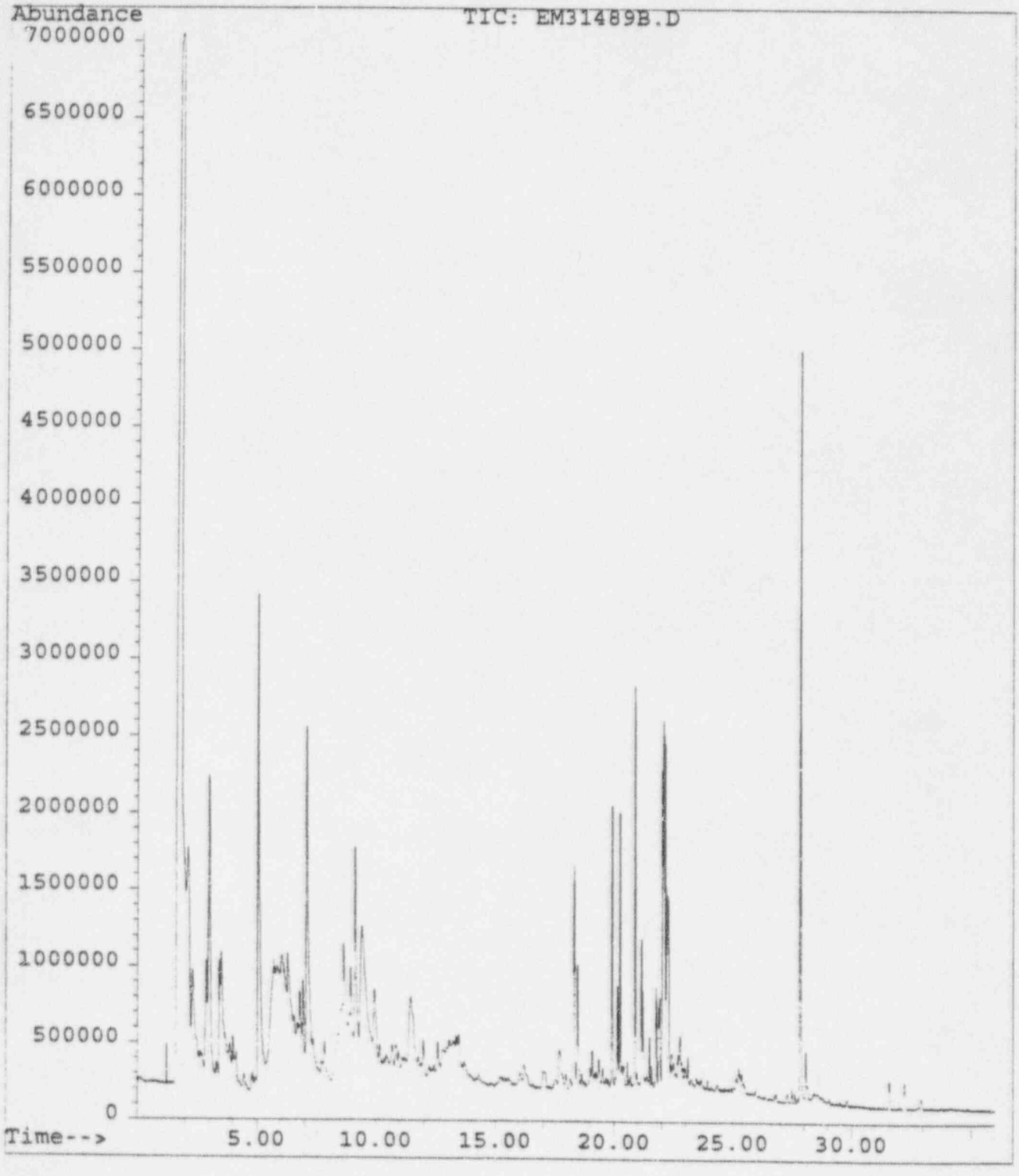
Area Percent Report -- Sorted by Signal

Information from Data File:
File : C:\HPCHEM\1\DATA\EM31489A.D
Operator : Marti
Acquired : 13 Mar 95 2:47 pm using AcqMethod EM31492
Sample Name: 0395-10a
Misc Info : Pyrolysis of thermolag samples
Vial Number: 1
CurrentMeth: C:\HPCHEM\1\METHODS\EM31492.M

Retention Time	Area	Area %	Ratio %
55.00 amu			
2.859	21980583	100.000	100.000
69.00 amu			
2.986	16163375	100.000	100.000

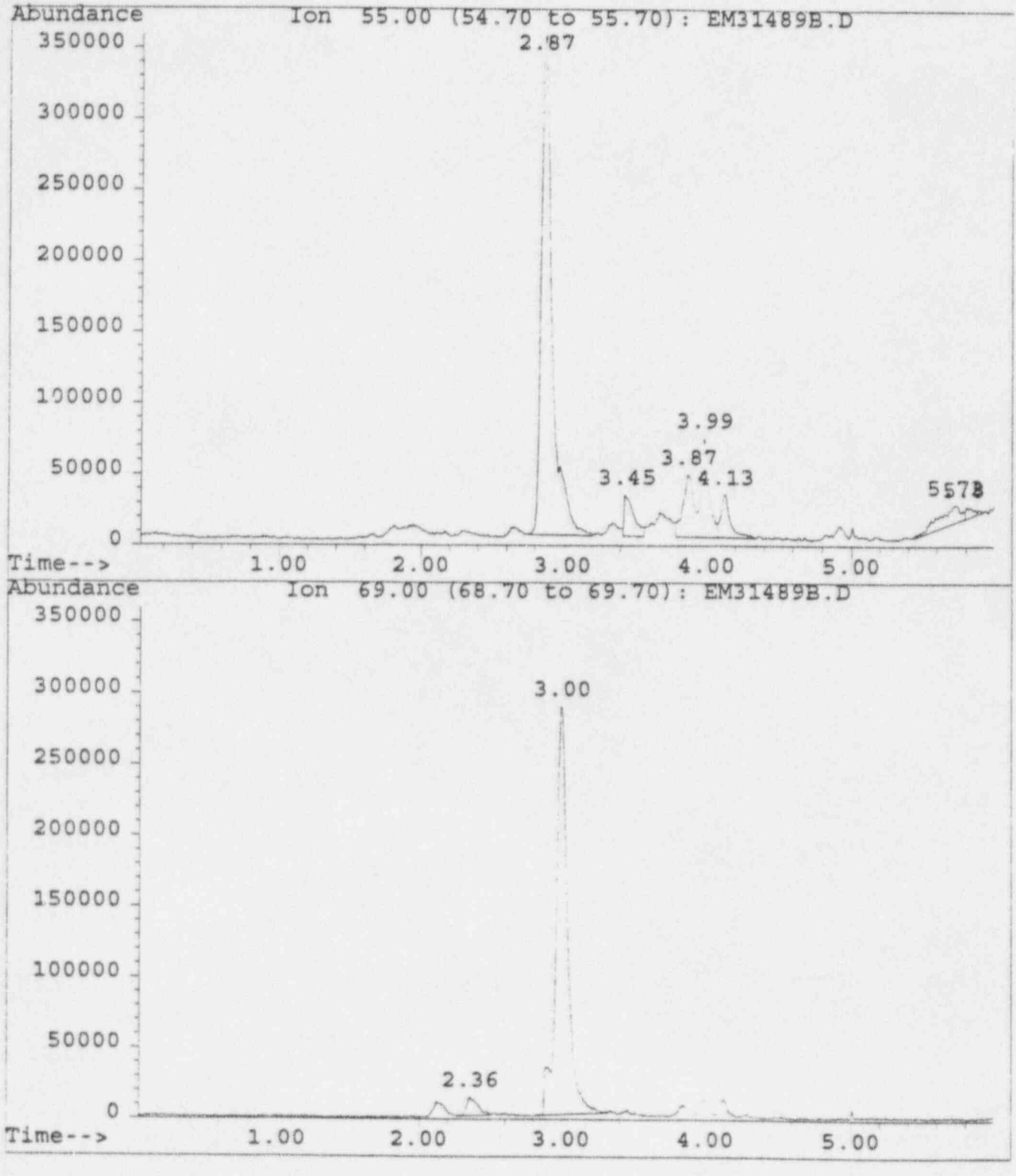
File : C:\HPCHEM\1\DATA\EM31489B.D
Operator : Marti
Acquired : 13 Mar 95 4:24 pm using AcqMethod EM31492
Instrument : 5972 - 33
Sample Name: 0395-10b
Misc Info : Pyrolysis of thermolag samples
Vial Number: 1

FIGURE 3



File : C:\HPCHEM\1\DATA\EM31489B.D
Operator : Marti
Acquired : 13 Mar 95 4:24 pm using AcqMethod EM31492
Instrument : 5972 - 33
Sample Name: 0395-10b
Misc Info : Pyrolysis of thermolag samples
Vial Number: 1

FIGURE 4



Information from Data File:
File : C:\HPCHEM\1\DATA\EM31489B.D
Operator : Marti
Acquired : 13 Mar 95 4:24 pm using AcqMethod EM31492
Sample Name: 0395-10b
Misc Info : Pyrolysis of thermolag samples
Vial Number: 1

Search Libraries: C:\DATABASE\NBS75K.L Minimum Quality: 0

Unknown Spectrum: Apex
Integration Params: AutoIntegrate

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	1.75	22.50	C:\DATABASE\NBS75K.L			
			No matches found			
2	2.12	3.61	C:\DATABASE\NBS75K.L			
			No matches found			
3	2.32	1.93	C:\DATABASE\NBS75K.L			
			Furan, 2-methyl-	463	000534-22-5	70
			Butane, 2,2,3,3-tetranitro-	31332	020919-97-5	32
			Furan, 3-methyl-	464	000930-27-8	30
4	3.00	4.00	C:\DATABASE\NBS75K.L			
			2-Propenoic acid, 2-methyl-, 3-hyd	8333	002761-09-3	38
			2-Butenoic acid, methyl ester, (E)	63312	000623-43-8	27
			2-Butenoic acid, methyl ester, (E)	1458	000623-43-8	27
5	3.50	2.78	C:\DATABASE\NBS75K.L			
			1-Penten-3-yne, 2-methyl-	62647	000926-55-6	50
			1-Penten-3-yne, 2-methyl-	426	000926-55-6	43
			1-Decyne	65925	000764-93-2	38
6	3.86	0.44	C:\DATABASE\NBS75K.L			
			2-Octene, (Z)-	2713	007642-04-8	46
			Heptanal	64169	000111-71-7	46
			2-Octene	63998	000111-67-1	46
7	3.99	0.87	C:\DATABASE\NBS75K.L			
			4-Octene, (E)-	64041	014850-23-8	55
			2-Octene, (E)-	64023	013389-42-9	50
			4-Octene, (E)-	64040	014850-23-8	50
8	4.82	0.14	C:\DATABASE\NBS75K.L			
			1H-Pyrrole, 2-methyl-	444	000636-41-9	58
			1H-Pyrrole, 1-methyl-	62657	000096-54-8	53
			1H-Pyrrole, 3-methyl-	449	000616-43-3	53
9	5.04	4.42	C:\DATABASE\NBS75K.L			
			Pyridine, 3-methyl-	63044	000108-99-6	95
			Pyridine, 3-methyl-	981	000108-99-6	95
			Pyridine, 3-methyl-	63046	000108-99-6	91

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
10	5.72	2.66	C:\DATABASE\NBS75K.L			
			Phenol	63072	000108-95-2	90
			Phenol	63069	000108-95-2	90
			Phenol	1010	000108-95-2	90
11	5.84	2.16	C:\DATABASE\NBS75K.L			
			Phenol	63072	000108-95-2	90
			Phenol	63069	000108-95-2	90
			Phenol	1010	000108-95-2	87
12	6.06	3.21	C:\DATABASE\NBS75K.L			
			Phenol	63070	000108-95-2	93
			Phenol	63072	000108-95-2	91
			Phenol	63071	000108-95-2	87
13	6.31	3.02	C:\DATABASE\NBS75K.L			
			Phenol	63070	000108-95-2	93
			Phenol	63071	000108-95-2	86
			Phenol	63072	000108-95-2	76
14	6.81	1.50	C:\DATABASE\NBS75K.L			
			Pyridine, 3-ethyl-	63740	000536-78-7	64
			Phenol	1010	000108-95-2	60
			Phenol	63070	000108-95-2	55
15	6.95	0.75	C:\DATABASE\NBS75K.L			
			Pyridine, 3-ethenyl-	1970	001121-55-7	50
			2,4-Heptadien-6-ynal, (E,E)-	2017	007200-04-6	46
			Phenol	63071	000108-95-2	43
16	7.09	4.33	C:\DATABASE\NBS75K.L			
			Pyridine, 3,5-dimethyl-	63720	000591-22-0	95
			Pyridine, 3,5-dimethyl-	2047	000591-22-0	93
			Pyridine, 2,5-dimethyl-	2046	000589-93-5	93
17	7.86	0.67	C:\DATABASE\NBS75K.L			
			1H-Pyrrole-2-acetonitrile, 1-methy	3744	024437-41-0	49
			Pyridine, 2-ethyl-6-methyl-	3834	001122-69-6	38
			Benzene, (ethenyloxy)-	64551	000766-94-9	25
18	8.64	3.58	C:\DATABASE\NBS75K.L			
			Benzyl Alcohol	2119	000100-51-6	90
			Phenol, 3-methyl-	63780	000108-39-4	89
			Pyridine, 2,3,5-trimethyl-	3839	000695-98-7	86
19	8.93	1.47	C:\DATABASE\NBS75K.L			
			Benzenamine, 3-methyl-	2049	000108-44-1	87
			Aniline, N-methyl-	63713	000100-61-8	86
			Phenol, 2-methyl-	2122	000095-48-7	62
20	9.11	2.15	C:\DATABASE\NBS75K.L			
			Pyridine, 5-ethenyl-2-methyl-	3656	000140-76-1	93
			4-Aminostyrene	3652	001520-21-4	76
			Benzene, 1-methyl-4-(1-methylethyl	65537	000099-87-6	47

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
21	9.38	4.58	C:\DATABASE\NBS75K.L			
			Benzenamine, 4-propoxy-	10015	004469-80-1	53
			2(1H)-Pyridinone, 1-methyl-	63813	000694-85-9	53
			Pyridine, 3-methyl-, 1-oxide	2215	001003-73-2	47
22	9.93	1.39	C:\DATABASE\NBS75K.L			
			1H-Pyrrole, 2,3,4,5-tetramethyl-	4056	001003-90-3	55
			Pyridinium, 1-(1-carboxyethyl)-, h	9987	036880-54-3	35
			Benzenamine, 2-methoxy-	64732	000090-04-0	15
23	10.16	0.39	C:\DATABASE\NBS75K.L			
			Cyclopropanamine, 2-phenyl-, trans	65459	000155-09-9	25
			Thiourea, tetramethyl-	5727	002782-91-4	16
			Quinoline, 1,2,3,4-tetrahydro-	65454	000635-46-1	16
24	10.67	0.40	C:\DATABASE\NBS75K.L			
			1H-Benzimidazol-2-amine	65439	000934-32-7	25
			Benzene, 1-isocyanato-4-methyl-	65450	000622-58-2	18
			[1,2,4]Triazolo[1,5-a]pyridine, 2-	5960	000768-19-4	18
25	10.84	0.55	C:\DATABASE\NBS75K.L			
			1,2,4-Triazolo[4,3-a]pyridine, 3-m	5957	001004-65-5	25
			Benzene, 1-isocyanato-3-methyl-	5981	000621-29-4	20
			Cyclopropanamine, 2-phenyl-, trans	65460	000155-09-9	18
26	11.46	1.99	C:\DATABASE\NBS75K.L			
			Ethanol, 2-phenoxy-	6911	000122-99-6	96
			Ethanol, 2-phenoxy-	65894	000122-99-6	93
			Ethanol, 2-phenoxy-	65895	000122-99-6	76
27	11.98	0.33	C:\DATABASE\NBS75K.L			
			1,3,5-Triazine, hexahydro-1,3,5-tr	65158	000108-74-7	30
			3-Buten-2-one, 4-(dimethylamino)-4	8161	049582-68-5	27
			2-Propenoic acid, 3-(dimethylamino	12144	049582-69-6	22
28	12.59	0.23	C:\DATABASE\NBS75K.L			
			Pentanedioic acid, diethyl ester	19778	000818-38-2	49
			Pentanedioic acid, diethyl ester	69155	000818-38-2	46
			Pentanedioic acid, diethyl ester	69156	000818-38-2	43
29	12.81	0.31	C:\DATABASE\NBS75K.L			
			dl-3-Aminobutyric acid	1815	002835-82-7	43
			2-Butenediamide, (Z)-	2831	000928-01-8	38
			3,4-Dithiahexyl-1,6-diamine	10077	000000-00-0	38
30	13.07	0.51	C:\DATABASE\NBS75K.L			
			Propanal, dimethylhydrazone	1498	007422-93-7	35
			1,3-Propanediol, 2,2-bis(hydroxyme	6397	000115-77-5	35
			Hexanal, 5-ethyl-	2998	001860-39-5	35
31	13.25	0.47	C:\DATABASE\NBS75K.L			
			3,4-Dithiahexyl-1,6-diamine	10077	000000-00-0	35
			Acetoacetic acid, 3-thio-, propyl	12292	018457-87-9	30
			Benzenemethanol, 4-hydroxy-.alpha.	68042	000094-07-5	16

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
32	13.48	0.55	C:\DATABASE\NBS75K.L			
			Piperidine, 4-methyl-	63291	000626-58-4	43
			3-Azabicyclo[3.2.2]nonane, 3-nitro	67057	001522-09-4	18
			1,3,5-Triazin-2(1H)-one, 4-amino-6	11106	007313-54-4	14
33	16.23	0.34	C:\DATABASE\NBS75K.L			
			Ethanol, 2-(2-phenoxyethoxy)-	18349	000104-68-7	53
			Propanoic acid, 3-methoxy-, methyl	64414	003852-09-3	18
			3-Propoxyamphetamine	21000	000000-00-0	14
34	17.04	0.27	C:\DATABASE\NBS75K.L			
			Benzene, 1-nitro-4-(1-propynyl)-	12652	028289-83-0	53
			6-Amino-2,3-dimethyl(1H)pyrrolo[2,	12683	000000-00-0	45
			Urea, N-methyl-N'-[4-(trifluoroace	32948	057346-65-3	42
35	17.72	0.47	C:\DATABASE\NBS75K.L			
			Phenol, 4,4'-(1,2-diethyl-1,2-etha	37831	000084-16-2	59
			Phenol, 4-(1,1,3,3-tetramethylbuty	24424	000140-66-9	58
			Phenol, 4-(1,1,3,3-tetramethylbuty	70047	000140-66-9	50
36	18.32	1.24	C:\DATABASE\NBS75K.L			
			2-Propanol, 1,1'-[(1-methyl-1,2-et	20630	001638-16-0	38
			2,5,8,11,14-Pentaoxapentadecane	28004	000143-24-8	38
			2-Butanol, 3-methoxy-	1908	053778-72-6	38
37	18.46	0.71	C:\DATABASE\NBS75K.L			
			2-Propanol, 1-[1-methyl-2-(2-prope	16196	055956-25-7	38
			2-Propanol, 1,1'-[(1-methyl-1,2-et	20630	001638-16-0	38
			Pentane, 2-methoxy-	1778	006795-88-6	35
38	19.09	0.50	C:\DATABASE\NBS75K.L			
			2-Propanol, 1-[1-methyl-2-(2-prope	68438	055956-25-7	42
			1-Propanol, 2-(2-hydroxypropoxy)-	6086	000106-62-7	38
			2-Propanol, 1,1'-[(1-methyl-1,2-et	69286	001638-16-0	35
39	19.37	0.22	C:\DATABASE\NBS75K.L			
			Butanamide	62880	000541-35-5	43
			Butanamide	755	000541-35-5	43
			Propanediamide	1670	000108-13-4	43
40	19.53	0.12	C:\DATABASE\NBS75K.L			
			N-Methyl-2-benzyloxyethylamine	13744	071126-62-0	47
			3-Isoxazolecarboperoxoic acid, 5-p	36039	035145-87-0	47
			Butanamide	62880	000541-35-5	47
41	19.93	1.01	C:\DATABASE\NBS75K.L			
			3-Cyclobutene-1,2-dicarboxylic aci	29065	055673-92-2	25
			1H-Purine, 6-(methylthio)-	13832	000050-66-8	22
			Benzo[b]thiophene, 3-(butylthio)-	28072	054965-44-5	20
42	20.17	0.47	C:\DATABASE\NBS75K.L			
			cis-2,4,5-Trimethoxy-.beta.-methyl	34481	000000-00-0	43
			1,5-Diphenyl-2H-1,2,4-triazoline-3	34508	005055-74-3	38
			7-(2-Hydroxyphenyl)(7H)triazolo[e]	34463	000000-00-0	38

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
43	20.26	1.22	C:\DATABASE\NBS75K.L			
			Flavone	28172	000525-82-6	35
			7,8-Dihydro-2-methyl(6H)pyrazolo[3	27965	000000-00-0	25
			1H-Pyrrole-2-carboxylic acid, 3-et	14264	069687-81-6	11
44	20.57	0.10	C:\DATABASE\NBS75K.L			
			1H-Indole-3-ethanamine, 6-fluoro-.	20703	077590-52-4	38
			Tricyclo[4.3.1.13,8]undecane-3-car	21336	021898-91-9	32
			N-Methyl-2-benzyloxyethylamine	13744	071126-62-0	30
45	20.89	1.37	C:\DATABASE\NBS75K.L			
			3-(3-Methoxyphenyl)propionic acid	24861	007116-39-4	38
			Pyridine, 2-ethyl-4,6-dimethyl-	6309	001124-35-2	14
			Phenol, 2-[-4-(1-piperidyl)-6-pyri	34940	000000-00-0	11
46	21.16	0.87	C:\DATABASE\NBS75K.L			
			1H-Purin-6-amine, N-methyl-	66644	000443-72-1	30
			7H-Purin-6-amine, 7-methyl-	9421	000935-69-3	20
			4-Pyridinecarboxaldehyde, 3-hydrox	14236	000066-72-8	18
47	21.49	0.24	C:\DATABASE\NBS75K.L			
			12,13-Dihydro-12-methyl-13,14-diox	46505	059050-19-0	10
			1,3-Dioxane, 4-(hexadecyloxy)-2-pe	59841	056599-40-7	10
			Benzoic acid, 2-[(2-aminophenyl)[3	46493	013450-59-4	10
48	21.78	0.35	C:\DATABASE\NBS75K.L			
			5,9-Methanobenzocycloocten-4(1H)-o	38853	006244-16-2	53
			Pyrido[3,2-d]pyrimidine-2,4(1H,3H)	24033	016953-81-4	50
			4H-1-Benzopyran-4-one, 5,7-dihydro	36247	013475-09-7	40
49	21.90	0.57	C:\DATABASE\NBS75K.L			
			Propanoic acid, 2-hydroxy-2-methyl	3494	002110-78-3	49
			Propane, 1-ethoxy-2-methyl-	63543	000627-02-1	47
			2-Propanol, 1-[1-methyl-2-(2-prope	68433	055956-25-7	47
50	22.09	6.30	C:\DATABASE\NBS75K.L			
			Methane, diethoxy-	63623	000462-95-3	47
			2,5,8,11,14-Pentaoxapentadecane	70591	000143-24-8	47
			2-Propanol, 1,1'-[(1-methyl-1,2-et	69286	001638-16-0	47
51	22.43	0.46	C:\DATABASE\NBS75K.L			
			1,2-Benzisothiazole-3-acetic acid	69333	029266-68-0	50
			Benzene, 1-isocyanato-2-methoxy-	9446	000700-87-8	43
			Tricyclo[4.3.1.13,8]undecane-1-car	24915	031083-60-0	38
52	22.79	0.65	C:\DATABASE\NBS75K.L			
			Hexylene Glycol	3548	000107-41-5	38
			Propanoic acid, 2-hydroxy-2-methyl	5790	000080-55-7	35
			2-Pentanol, 3-chloro-2-methyl-	6423	074685-49-7	35
53	23.12	0.11	C:\DATABASE\NBS75K.L			
			L-Threonine, N-[(1H-purin-6-ylamin	39347	033422-66-1	37
			Allyldimethylphenylsilane	16746	000000-00-0	16
			3,3-Dimethyl-1-phenylazetidine-4-t	20482	096594-26-2	11

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
54	25.27	0.58	C:\DATABASE\NBS75K.L			
			Acetamide	103	000060-35-5	49
			Butanamide	62880	000541-35-5	49
			1,2-Dideoxy-1-erythro-pentitol	3714	000000-00-0	47
55	27.51	0.05	C:\DATABASE\NBS75K.L			
			Phosphoric acid, triphenyl ester	73338	000115-86-6	96
			Phosphoric acid, triphenyl ester	73337	000115-86-6	91
			Phosphoric acid, triphenyl ester	46311	000115-86-6	43
56	27.87	3.22	C:\DATABASE\NBS75K.L			
			Octicizer	50542	001241-94-7	90
			7-Amino-2,3-dihydro-5-phenyl-1H-1,	34112	004928-02-3	59
			2-(4-Cyanophenyl)-5-dimethylaminom	34091	000000-00-0	45
57	28.10	0.29	C:\DATABASE\NBS75K.L			
			5-Methoxy-2,3-dimethylindole	68483	000828-94-4	42
58	31.62	0.17	C:\DATABASE\NBS75K.L			
			Phosphoric acid, tris(3-methylphen	51124	000563-04-2	99
			Phosphoric acid, tris(methylphenyl	51123	001330-78-5	98
			Phosphoric acid, tris(methylphenyl	73955	001330-78-5	90
59	32.26	0.21	C:\DATABASE\NBS75K.L			
			Phosphoric acid, tris(3-methylphen	51124	000563-04-2	98
			Phosphoric acid, tris(methylphenyl	73955	001330-78-5	97
			Phosphoric acid, tris(4-methylphen	51126	000078-32-0	94

Area Percent Report -- Sorted by Signal

Information from Data File:
File : C:\HPCHEM\1\DATA\EM31489B.D
Operator : Marti
Acquired : 13 Mar 95 4:24 pm using AcqMethod EM31492
Sample Name: 0395-10b
Misc Info : Pyrolysis of thermolag samples
Vial Number: 1
CurrentMeth: C:\HPCHEM\1\METHODS\EM31492.M

Retention Time	Area	Area %	Ratio %
Total Ion Chromatogram			
1.750	954305392	22.503	100.000
2.116	152921970	3.606	16.024
2.318	81908496	1.931	8.583
2.998	169600055	3.999	17.772
3.505	117713779	2.776	12.335
3.860	18497745	0.436	1.938
3.991	36891432	0.870	3.866
4.817	6060750	0.143	0.635
5.043	187328572	4.417	19.630
5.717	112918982	2.663	11.833
5.845	91762311	2.164	9.616
6.053	136107108	3.209	14.262
6.308	128036601	3.019	13.417
6.813	63700901	1.502	6.675
6.946	31599212	0.745	3.311
7.098	183748915	4.333	19.255
7.856	28389921	0.669	2.975
8.639	151765542	3.579	15.903
8.927	62526516	1.474	6.552
9.110	91308371	2.153	9.568
9.388	194169699	4.579	20.347
9.930	58982071	1.391	6.181
10.160	16688500	0.394	1.749
10.676	17065284	0.402	1.788
10.838	23221927	0.548	2.433
11.459	84397421	1.990	8.844
11.987	13845898	0.326	1.451
12.591	9649769	0.228	1.011
12.807	13297643	0.314	1.393
13.067	21600833	0.509	2.264
13.248	20008162	0.472	2.097
13.472	23194810	0.547	2.431
16.225	14449911	0.341	1.514
17.043	11407430	0.269	1.195
17.718	19902446	0.469	2.086

Area Percent Report -- Sorted by Signal

Information from Data File:
File : C:\HPCHEM\1\DATA\EM31489B.D
Operator : Marti
Acquired : 13 Mar 95 4:24 pm using AcqMethod EM31492
Sample Name: 0395-10b
Misc Info : Pyrolysis of thermolag samples
Vial Number: 1
CurrentMeth: C:\HPCHEM\1\METHODS\EM31492.M

Retention Time	Area	Area %	Ratio %
18.321	52502105	1.238	5.502
18.465	29901719	0.705	3.133
19.093	21057747	0.497	2.207
19.368	9353431	0.221	0.980
19.531	5144746	0.121	0.539
19.927	42840257	1.010	4.489
20.162	19996113	0.472	2.095
20.261	51906184	1.224	5.439
20.569	4073155	0.096	0.427
20.891	57926561	1.366	6.070
21.160	37068995	0.874	3.884
21.494	10352899	0.244	1.085
21.772	15023198	0.354	1.574
21.898	24136240	0.569	2.529
22.089	267247697	6.302	28.004
22.432	19367144	0.457	2.029
22.793	27473109	0.648	2.879
23.129	4801595	0.113	0.503
25.269	24639302	0.581	2.582
27.512	2178380	0.051	0.228
27.869	136746015	3.225	14.329
28.098	12090531	0.285	1.267
31.619	7167849	0.169	0.751
32.261	8806779	0.208	0.923

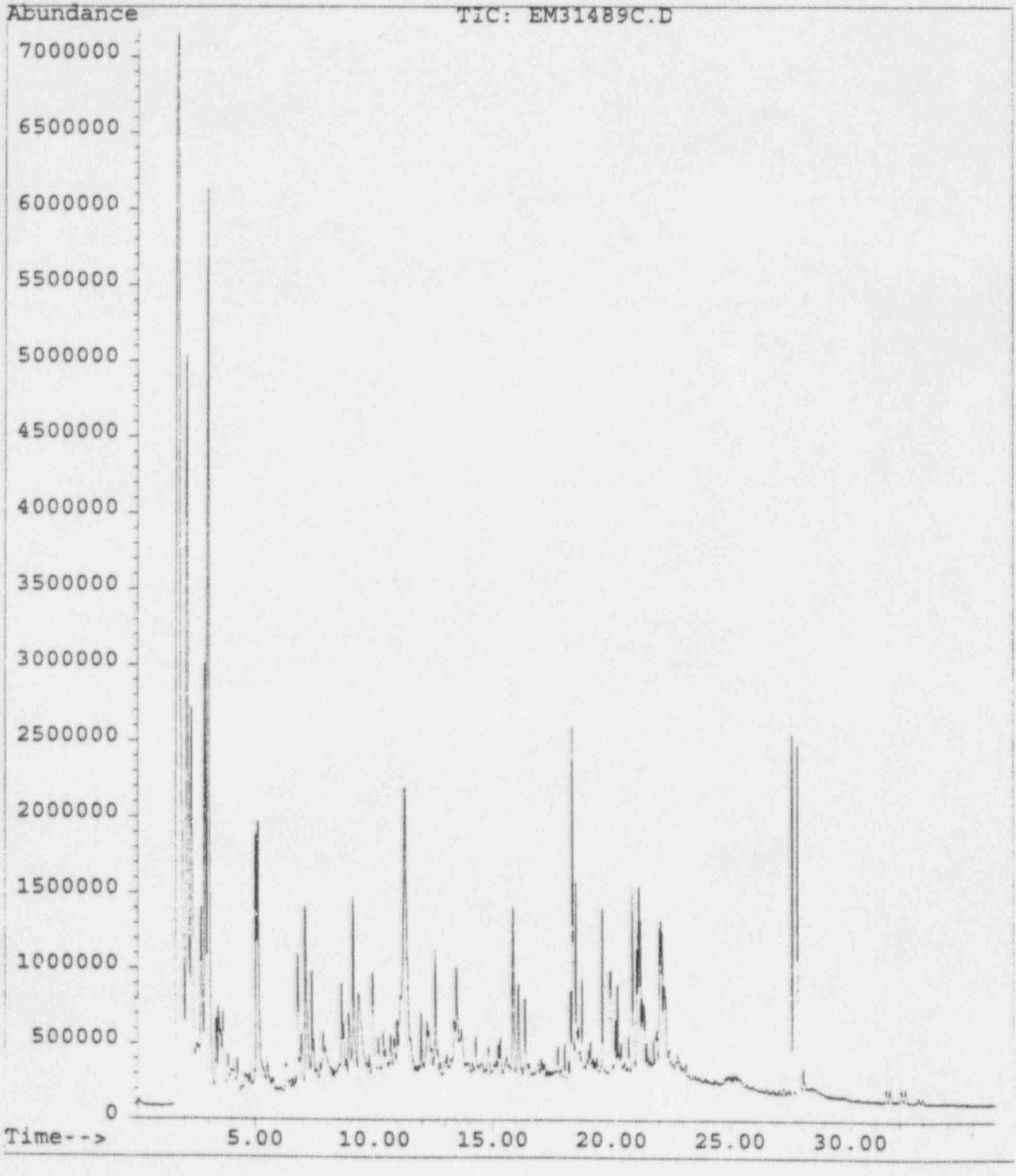
Area Percent Report -- Sorted by Signal

Information from Data File:
File : C:\HPCHEM\1\DATA\EM31489B.D
Operator : Marti
Acquired : 13 Mar 95 4:24 pm using AcqMethod EM31492
Sample Name: 0395-10b
Misc Info : Pyrolysis of thermolag samples
Vial Number: 1
CurrentMeth: C:\HPCHEM\1\METHODS\EM31492.M

Retention Time	Area	Area %	Ratio %
55.00 amu			
2.873	18949653	66.313	100.000
3.447	1358246	4.753	7.168
3.875	2344804	8.206	12.374
3.988	2868408	10.038	15.137
4.135	1411830	4.941	7.450
5.731	1339782	4.689	7.070
5.837	303162	1.061	1.600
69.00 amu			
2.362	692491	4.103	4.279
3.001	16183842	95.897	100.000

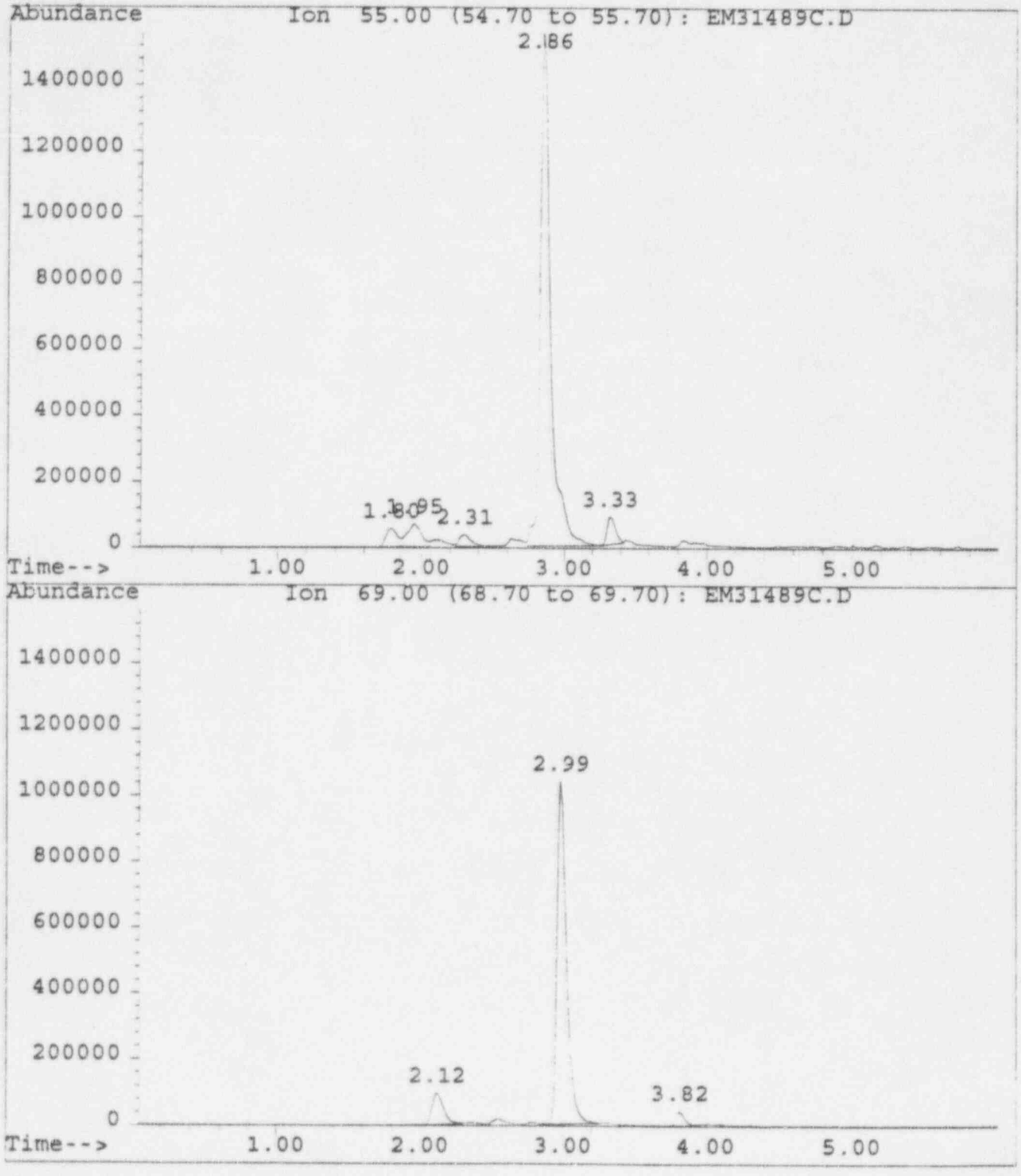
File : C:\HPCHEM\1\DATA\EM31489C.D
Operator : Marti
Acquired : 13 Mar 95 5:43 pm using AcqMethod EM31492
Instrument : 5972 - 33
Sample Name: 0395-10c
Misc Info : Pyrolysis of thermolag samples
Vial Number: 1

FIGURE 5



File : C:\HPCHEM\1\DATA\EM31489C.D
Operator : Marti
Acquired : 13 Mar 95 5:43 pm using AcqMethod EM31492
Instrument : 5972 - 33
Sample Name: 0395-10c
Misc Info : Pyrolysis of thermolag samples
Vial Number: 1

FIGURE 6



Information from Data File:
File : C:\HPCHEM\1\DATA\EM31489C.D
Operator : Marti
Acquired : 13 Mar 95 5:43 pm using AcqMethod EM31492
Sample Name: 0395-10c
Misc Info : Pyrolysis of thermolag samples
Vial Number: 1

Search Libraries: C:\DATABASE\NBS75K.L Minimum Quality: 0

Unknown Spectrum: Apex
Integration Params: AutoIntegrate

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	1.72	18.72	C:\DATABASE\NBS75K.L			
			No matches found			
2	2.11	6.84	C:\DATABASE\NBS75K.L			
			2-Propenal, 2-methyl-	209	000078-85-3	91
			2-Propenal, 2-methyl-	62430	000078-85-3	91
			2-Butenal, (E)-	214	000123-73-9	91
3	2.30	3.61	C:\DATABASE\NBS75K.L			
			Furan, 2-methyl-	463	000534-22-5	94
			Furan, 2-methyl-	62666	000534-22-5	86
			Furan, 2-methyl-	62665	000534-22-5	64
4	2.71	2.56	C:\DATABASE\NBS75K.L			
			Furan, 2-methyl-	62665	000534-22-5	91
			Furan, 2-methyl-	463	000534-22-5	91
			Furan, 2-methyl-	62666	000534-22-5	90
5	2.86	2.80	C:\DATABASE\NBS75K.L			
			2-Propenoic acid, ethyl ester	63318	000140-88-5	91
			2-Propenoic acid, ethyl ester	1461	000140-88-5	91
			2-Propenoic acid, ethyl ester	63319	000140-88-5	83
6	2.99	7.22	C:\DATABASE\NBS75K.L			
			2-Propenoic acid, 2-methyl-, methy	63329	000080-62-6	64
			2-Butenoic acid, methyl ester, (E)	1458	000623-43-8	59
			2-Propenoic acid, 2-methyl-, methy	1484	000080-62-6	58
7	3.33	1.59	C:\DATABASE\NBS75K.L			
			2-Butenal, 2-methyl-	574	001115-11-3	93
			2-Butenal, 2-methyl-, (E)-	565	000497-03-0	93
			2-Ethylacrolein	551	000922-63-4	64
8	3.61	0.77	C:\DATABASE\NBS75K.L			
			Toluene	63028	000108-88-3	92
			Toluene	63029	000108-88-3	70
			Toluene	63030	000108-88-3	70
9	3.84	0.29	C:\DATABASE\NBS75K.L			
			2-Pentenal, (E)-	62733	001576-87-0	25
			2-Pentenal, (E)-	567	001576-87-0	25
			2-Pentene, 4-methyl-, (Z)-	601	000691-38-3	18

Pk#	RT	Area%	Library/ID .	Ref#	CAS#	Qual
10	4.23	0.22	C:\DATABASE\NBS75K.L			
			1-Methoxy-1,3-cyclohexadiene	2313	002161-90-2	49
			2,3,5-Trimethylfuran	2288	000000-00-0	46
			1H-Imidazole, 2-ethyl-4-methyl-	2275	000931-36-2	41
11	4.78	0.37	C:\DATABASE\NBS75K.L			
			1-Penten-3-yne, 2-methyl-	62647	000926-55-6	55
			Bicyclo(3.3.1)non-2-ene	3973	006671-66-5	47
			1-Penten-3-yne, 2-methyl-	426	000926-55-6	46
12	5.12	3.59	C:\DATABASE\NBS75K.L			
			Benzene, 1,2-dimethyl-	63706	000095-47-6	91
			Benzene, 1,3-dimethyl-	63697	000108-38-3	91
			p-Xylene	63701	000106-42-3	91
13	5.52	0.19	C:\DATABASE\NBS75K.L			
			Benzene, 1,2-dimethyl-	63706	000095-47-6	25
			Benzene, (ethenyloxy)-	3759	000766-94-9	22
			Bicyclo[3.2.1]octane, 2,3-bis(meth	6229	049826-54-2	17
14	6.31	0.37	C:\DATABASE\NBS75K.L			
			Pyridine, 2,5-dimethyl-	63719	000589-93-5	93
			Pyridine, 2,3-dimethyl-	63734	000583-61-9	92
			Pyridine, 2,3-dimethyl-	2053	000583-61-9	92
15	6.80	1.00	C:\DATABASE\NBS75K.L			
			Benzene, 1-ethyl-2-methyl-	3765	000611-14-3	70
			Benzene, 1,2,3-trimethyl-	64576	000526-73-8	64
			Benzene, 1-ethyl-3-methyl-	64563	000620-14-4	64
16	6.94	0.39	C:\DATABASE\NBS75K.L			
			Pyridine, 3-ethenyl-	1970	001121-55-7	74
			2,4-Heptadien-6-ynal, (E,E)-	2017	007200-04-6	70
			Benzene, 1-azido-2-methyl-	65441	031656-92-5	53
17	7.11	1.59	C:\DATABASE\NBS75K.L			
			Pyridine, 3,5-dimethyl-	63720	000591-22-0	93
			Pyridine, 3,5-dimethyl-	2047	000591-22-0	93
			Pyridine, 2,5-dimethyl-	2046	000589-93-5	93
18	7.37	1.14	C:\DATABASE\NBS75K.L			
			1,2,4-Trimethylbenzene	3771	000095-36-3	94
			Benzene, 1,2,3-trimethyl-	64576	000526-73-8	93
			Benzene, 1,3,5-trimethyl-	64568	000108-67-8	76
19	7.85	1.59	C:\DATABASE\NBS75K.L			
			Phenol, 3-methyl-	63780	000108-39-4	56
			Pyridine, 2,3-dimethyl-	2053	000583-61-9	45
			Phenol, 2-methyl-	63789	000095-48-7	42
20	8.62	1.63	C:\DATABASE\NBS75K.L			
			Pyridine, 2,3,6-trimethyl-	3822	001462-84-6	81
			Benzenamine, 3,4-dimethyl-	3838	000095-64-7	76
			Benzenamine, 2,4-dimethyl-	3840	000095-68-1	76

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
21	8.92	0.67	C:\DATABASE\NBS75K.L			
			Benzenamine, 2,4-dimethyl-	64620	000095-68-1	86
			Benzenamine, 2,6-dimethyl-	64610	000087-62-7	76
			Benzenamine, 2,5-dimethyl-	3818	000095-78-3	76
22	9.10	1.50	C:\DATABASE\NBS75K.L			
			Pyridine, 5-ethenyl-2-methyl-	3656	000140-76-1	91
			Benzene, 1-methyl-4-(1-methylethyl	6201	000099-87-6	59
			Benzene, 4-ethyl-1,2-dimethyl-	65569	000934-80-5	59
23	9.34	1.99	C:\DATABASE\NBS75K.L			
			2,6-Pyridinediamine	2190	000141-86-6	50
			Pyridine, 3-methyl-, 1-oxide	2215	001003-73-2	47
			Phenol, 3-amino-	2210	000591-27-5	47
24	9.77	0.21	C:\DATABASE\NBS75K.L			
			Benzene, 1-ethyl-2,3-dimethyl-	65355	000933-98-2	42
			Benzene, 1,2,3,4-tetramethyl-	6202	000488-23-3	42
			Benzene, 1-methyl-2-(1-methylethyl	65581	000527-84-4	42
25	9.91	1.05	C:\DATABASE\NBS75K.L			
			1H-Pyrrole, 2,3,4,5-tetramethyl-	4056	001003-90-3	90
			Borane, ethylbis(2,3,4,5-tetrameth	40184	028916-15-6	72
			5-Dimethylaminopyrimidine	4021	031401-46-4	35
26	10.15	0.39	C:\DATABASE\NBS75K.L			
			Benzene, (2-methyl-2-propenyl)-	5895	003290-53-7	53
			Benzene, 1-ethenyl-3-ethyl-	5902	007525-62-4	50
			o-Isopropenyltoluene	5877	007399-49-7	49
27	10.35	0.86	C:\DATABASE\NBS75K.L			
			Benzenamine, 2-(1-methylethyl)-	6343	000643-28-7	64
			Pyridine, 3-ethyl-2,6-dimethyl-	6322	023580-52-1	46
			Benzenamine, 2-ethyl-6-methyl-	6340	024549-06-2	43
28	10.66	0.46	C:\DATABASE\NBS75K.L			
			Benzenamine, 2-(1-methylethenyl)-	5989	052562-19-3	58
			Benzene, 1-isocyanato-3-methyl-	5981	000621-29-4	46
			Furo[2,3-c]pyridine, 2-methyl-	5968	069022-76-0	46
29	10.82	0.48	C:\DATABASE\NBS75K.L			
			Benzene, 1-isocyanato-3-methyl-	5981	000621-29-4	38
			Benzene, 1-isocyanato-3-methyl-	65449	000621-29-4	30
			Diethyl N-hydroxycarbonimidate	5936	024770-46-5	27
30	10.95	0.41	C:\DATABASE\NBS75K.L			
			1H-Indene, 2,3-dihydro-1,3-dimethy	8968	004175-53-5	87
			1H-Indene, 2,3-dihydro-1,6-dimethy	8967	017059-48-2	55
			1H-Indene, 2,3-dihydro-4,7-dimethy	66497	006682-71-9	46
31	11.27	6.54	C:\DATABASE\NBS75K.L			
			Ethanol, 2-phenoxy-	6911	000122-99-6	96
			Ethanol, 2-phenoxy-	65894	000122-99-6	94
			Ethanol, 2-phenoxy-	65895	000122-99-6	91

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
32	11.98	0.63	C:\DATABASE\NBS75K.L			
			Dimethyl ethylbutane-1,4-dioate	16107	000000-00-0	22
			1,2,4-Thiadiazole, 5-amino-3-propy	8127	032039-20-6	15
			2-Naphthalenol, 1-(1H-naphth[1,2-e	48287	050617-01-1	14
33	12.24	1.30	C:\DATABASE\NBS75K.L			
			Ethanol, 2-(2-phenoxyethoxy)-	18349	000104-68-7	55
			1,4,7,10,13,16-Hexaoxacyclooctadec	71827	017455-13-9	12
			2-Butanone, 3-hydroxy-	799	000513-86-0	10
34	12.58	1.18	C:\DATABASE\NBS75K.L			
			Pentanedioic acid, diethyl ester	19778	000818-38-2	87
			Pentanedioic acid, diethyl ester	69156	000818-38-2	64
			Carboxin	71050	005234-68-4	43
35	13.06	0.46	C:\DATABASE\NBS75K.L			
			Pyrazine, 2,5-dimethyl-3-propyl-	9760	018433-97-1	15
			2-Amino-1-(O-methoxyphenyl)propane	13749	074702-94-6	11
			Phenol, 2,5-dimethyl-	64689	000095-87-4	11
36	13.47	1.70	C:\DATABASE\NBS75K.L			
			Diethyl isopropylidenemalonate	69708	006802-75-1	35
			2-(Diethylamino)-3-methylcycloprop	11187	091295-98-6	35
			Fumaric Acid	64253	000110-17-8	25
37	13.67	0.82	C:\DATABASE\NBS75K.L			
			1H-Indole-3-carboxylic acid	12666	000771-50-6	41
			Pyrido[3,4-d]pyrimidin-4(3H)-one,	12637	022389-82-8	38
			Pyrido[3,2-d]pyrimidin-4(3H)-one,	12641	003303-26-2	38
38	14.29	0.37	C:\DATABASE\NBS75K.L			
			Benzene, 1,3,5-trimethyl-2-(1,2-pr	12108	029555-07-5	90
			Benzene, 1,4-bis(1-methylethenyl)-	12102	001605-18-1	64
			Quinoline, 4-methyl-	8213	000491-35-0	30
39	14.83	0.42	C:\DATABASE\NBS75K.L			
			1H-Indole, 5-fluoro-	6266	000399-52-0	38
			Phenol, 2-methyl-5-(1-methylethyl)	66780	000499-75-2	35
			Benzeneacetonitrile, 4-fluoro-	6267	000459-22-3	35
40	15.33	0.75	C:\DATABASE\NBS75K.L			
			1-Chloro-2-ethoxyethane	2079	000628-34-2	52
			1-Propanol, 2-(2-methoxypropoxy)-	9232	013588-28-8	35
			2-Propanol, 1-methoxy-2-methyl-	1912	003587-64-2	30
41	15.59	0.38	C:\DATABASE\NBS75K.L			
			Pyrido[2,3-d]pyrimidine, 4-ethyl-	12167	028732-68-5	27
			Propanedioic acid, diazo-, dimethy	11789	006773-29-1	25
			1,8-Naphthyridine, 2,6-dimethyl-	12031	014757-45-0	25
42	15.86	1.18	C:\DATABASE\NBS75K.L			
			2-Naphthalenemethanol, decahydro-.	28201	000473-15-4	45
			Butanoic acid, 2-hydroxy-, methyl	3508	029674-47-3	38
			1-Propanol, 2-(2-methoxypropoxy)-	9232	013588-28-8	38

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
43	16.09	0.76	C:\DATABASE\NBS75K.L			
			2,5,8,11,14-Pentaoxapentadecane	70592	000143-24-8	38
			2-Butanol, 3-methoxy-	1908	053778-72-6	38
			2,5,8,11,14,17-Hexaoxaoctadecane	36869	001191-87-3	35
44	16.36	0.68	C:\DATABASE\NBS75K.L			
			Ethanol, 2-(2-phenoxyethoxy)-	18349	000104-68-7	96
			2-Benzyloxyethylamine	10017	038336-04-8	35
			Ethanol, 2-phenoxy-	6911	000122-99-6	32
45	17.04	0.28	C:\DATABASE\NBS75K.L			
			2,5,8,11,14,17-Hexaoxaoctadecane	36869	001191-87-3	38
			2-Propanol, 1,1'-[(1-methyl-1,2-et	20630	001638-16-0	35
			2-Propanol, 1-[1-methyl-2-(2-prope	68438	055956-25-7	27
46	17.75	0.27	C:\DATABASE\NBS75K.L			
			Phenol, 4-(1,1,3,3-tetramethylbuty	24424	000140-66-9	49
			Thymol	66820	000089-83-8	47
			Tricyclo[4.3.1.13,8]undecane, 3-ch	18853	027011-47-8	47
47	18.02	0.12	C:\DATABASE\NBS75K.L			
			Phenol, 3-pentyl-	13529	020056-66-0	30
			Phenol, 3-octyl-	70046	020056-69-3	27
			Phenol, 3-octyl-	24422	020056-69-3	27
48	18.36	1.97	C:\DATABASE\NBS75K.L			
			Methane, diethoxy-	63623	000462-95-3	38
			2-Propanol, 1,1'-[(1-methyl-1,2-et	69286	001638-16-0	38
			2-Butanol, 3-methoxy-	1908	053778-72-6	38
49	18.50	1.35	C:\DATABASE\NBS75K.L			
			Methane, diethoxy-	63623	000462-95-3	38
			Ethanol, 1-methoxy-, benzoate	17716	051835-44-0	27
			Butanoic acid, 2-hydroxy-, methyl	3508	029674-47-3	27
50	18.76	0.52	C:\DATABASE\NBS75K.L			
			2,3-Dihydroindole-2-one, 3-fluoro-	28009	000000-00-0	27
			Phenol, 2-(2-quinoxalinyl)-	28139	017392-20-0	15
			Flavone	28172	000525-82-6	15
51	19.11	0.60	C:\DATABASE\NBS75K.L			
			2-Propanol, 1-[1-methyl-2-(2-prope	68438	055956-25-7	50
			2-Propanol, 1,1'-oxybis-	6087	000110-98-5	43
			1-Propanol, 2-(2-hydroxypropoxy)-	6086	000106-62-7	43
52	19.61	0.72	C:\DATABASE\NBS75K.L			
			Phenol, 2-[4-(1-piperidinyl)-2-pyr	34941	075634-06-9	15
			2-Ethyl-3,5-dimethylpyridine	6325	001123-96-2	14
			Pyridine, 2,6-diethyl-	65618	000935-28-4	14
53	19.95	0.71	C:\DATABASE\NBS75K.L			
			1-Hydroxy-4-hydrazonomethyl-2,3,5,	22779	051973-32-1	20
			6H-Purin-6-one, 2-(dimethylamino)-	68656	001445-15-4	18
			Carbamic acid, (2,6-dimethylphenyl	17450	020642-93-7	18

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
54	20.26	0.71	C:\DATABASE\NBS75K.L			
			4,7-Methanobenzoxazole, octahydro-	21596	032235-39-5	51
			Phenol, 2-(2-quinoxalinyl)-	28139	017392-20-0	35
			1,1'-Biphenyl, 3-azido-	21582	014213-01-5	25
55	20.41	0.18	C:\DATABASE\NBS75K.L			
			2-(4-(Dimethylamino)-1-naphthyl)na	46514	000000-00-0	25
			1,3-Dioxane, 5-(hexadecyloxy)-2-pe	74670	034315-34-9	25
			1'H-Androst-16-eno[17,16-g]indol-3	54335	056196-20-4	25
56	20.73	0.19	C:\DATABASE\NBS75K.L			
			Pyrido[3,2-d]pyrimidine-2,4(1H,3H)	24033	016953-81-4	47
			5-(4-Nexyloxybenzoyloxy)-2-(4-nitr	55386	000000-00-0	47
			5,9-Methanobenzocycloocten-4(1H)-o	38853	006244-16-2	43
57	20.90	0.81	C:\DATABASE\NBS75K.L			
			4-Amino-5-(2-hydroxypfenylazo)benz	34893	000000-00-0	11
			Benzenamine, N,N,4-trimethyl-	6330	000099-97-8	11
			Phenol, 2-[4-(1-piperidinyl)-2-pyr	34941	075634-06-9	11
58	21.16	3.35	C:\DATABASE\NBS75K.L			
			2,5,8,11,14-Pentaoxapentadecane	70592	000143-24-8	43
			2-Propanol, 1-[1-methyl-2-(2-prope	68438	055956-25-7	38
			Propanoic acid, 2-hydroxy-2-methyl	3494	002110-78-3	38
59	21.91	0.41	C:\DATABASE\NBS75K.L			
			2-Naphthalenemethanol, decahydro-.	28201	000473-15-4	53
			2,4,6,8,9-Pentathiatricyclo[3.3.1.	42667	057274-31-4	47
			Propanoic acid, 2-hydroxy-2-methyl	3494	002110-78-3	46
60	22.08	2.79	C:\DATABASE\NBS75K.L			
			2-Propanol, 1-[1-methyl-2-(2-prope	68438	055956-25-7	50
			1-Chloro-2-ethoxyethane	2079	000628-34-2	47
			2-Butanol, 3-methoxy-	1908	053778-72-6	43
61	22.44	0.21	C:\DATABASE\NBS75K.L			
			2H-1,4-Benzoxazin-3(4H)-one	9435	005466-88-6	35
			Tricyclo[4.3.1.13,8]undecane-1-car	21333	031061-65-1	35
			1,3-Dioxolane, 2-methyl-2-phenyl-	67836	003674-77-9	27
62	27.64	1.42	C:\DATABASE\NBS75K.L			
			7-Amino-2,3-dihydro-5-phenyl-1H-1,	34112	004928-02-3	53
			Octicizer	50542	001241-94-7	47
			2-(4-Cyanophenyl)-5-dimethylaminom	34091	000000-00-0	42
63	27.86	1.59	C:\DATABASE\NBS75K.L			
			7-Amino-2,3-dihydro-5-phenyl-1H-1,	34112	004928-02-3	59
			Octicizer	50542	001241-94-7	45
			2-(4-Cyanophenyl)-5-dimethylaminom	34091	000000-00-0	45
64	28.10	0.15	C:\DATABASE\NBS75K.L			
			2,3,4,5-Tetrafluorobenzonitrile	16392	016582-93-7	43
			Oxypertine	52141	000153-87-7	23
			1-Naphthalenol, 5,6,7,8-tetrahydro	27257	055012-72-1	23

Area Percent Report -- Sorted by Signal

Information from Data File:
File : C:\HPCHEM\1\DATA\EM31489C.D
Operator : Marti
Acquired : 13 Mar 95 5:43 pm using AcqMethod EM31492
Sample Name: 0395-10c
Misc Info : Pyrolysis of thermolag samples
Vial Number: 1
CurrentMeth: C:\HPCHEM\1\METHODS\EM31492.M

Retention Time	Area	Area %	Ratio %
Total Ion Chromatogram			
1.721	821890045	18.718	100.000
2.114	300326874	6.840	36.541
2.298	158600637	3.612	19.297
2.704	112336148	2.558	13.668
2.862	122737093	2.795	14.934
2.990	316909496	7.217	38.559
3.332	69971591	1.594	8.513
3.613	33712141	0.768	4.102
3.835	12728023	0.290	1.549
4.230	9625066	0.219	1.171
4.781	16354232	0.372	1.990
5.117	157545313	3.588	19.169
5.528	8532450	0.194	1.038
6.312	16036271	0.365	1.951
6.792	43810533	0.998	5.330
6.940	17261708	0.393	2.100
7.111	69710020	1.588	8.482
7.373	50084371	1.141	6.094
7.845	69668524	1.587	8.477
8.618	71549420	1.629	8.705
8.927	29250962	0.666	3.559
9.102	65942966	1.502	8.023
9.335	87567361	1.994	10.654
9.771	9204238	0.210	1.120
9.917	45940255	1.046	5.590
10.154	17166276	0.391	2.089
10.357	37744745	0.860	4.592
10.664	20374939	0.464	2.479
10.819	21206353	0.483	2.580
10.944	18020880	0.410	2.193
11.271	287131347	6.539	34.935
11.977	27633649	0.629	3.362
12.234	57054656	1.299	6.942
12.579	51599335	1.175	6.278
13.063	20024066	0.456	2.436

Area Percent Report -- Sorted by Signal

Information from Data File:
File : C:\HPCHEM\1\DATA\EM31489C.D
Operator : Marti
Acquired : 13 Mar 95 5:43 pm using AcqMethod EM31492
Sample Name: 0395-10c
Misc Info : Pyrolysis of thermolag samples
Vial Number: 1
CurrentMeth: C:\HPCHEM\1\METHODS\EM31492.M

Retention Time	Area	Area %	Ratio %
13.469	74512920	1.697	9.066
13.666	36032528	0.821	4.384
14.286	16296657	0.371	1.983
14.830	18406172	0.419	2.239
15.331	32859064	0.748	3.998
15.591	16714212	0.381	2.034
15.863	51770250	1.179	6.299
16.089	33331949	0.759	4.056
16.365	29884681	0.681	3.636
17.049	12493092	0.285	1.520
17.751	11993923	0.273	1.459
18.027	5185339	0.118	0.631
18.357	86414878	1.968	10.514
18.497	59421295	1.353	7.230
18.757	22689090	0.517	2.761
19.111	26208932	0.597	3.189
19.614	31718263	0.722	3.859
19.955	31336506	0.714	3.813
20.265	31003904	0.706	3.772
20.413	7715078	0.176	0.939
20.733	8419624	0.192	1.024
20.893	35383773	0.806	4.305
21.156	147259350	3.354	17.917
21.905	18115216	0.413	2.204
22.083	122405471	2.788	14.893
22.433	9097099	0.207	1.107
27.642	62267663	1.418	7.576
27.861	69959439	1.593	8.512
28.098	6788416	0.155	0.826

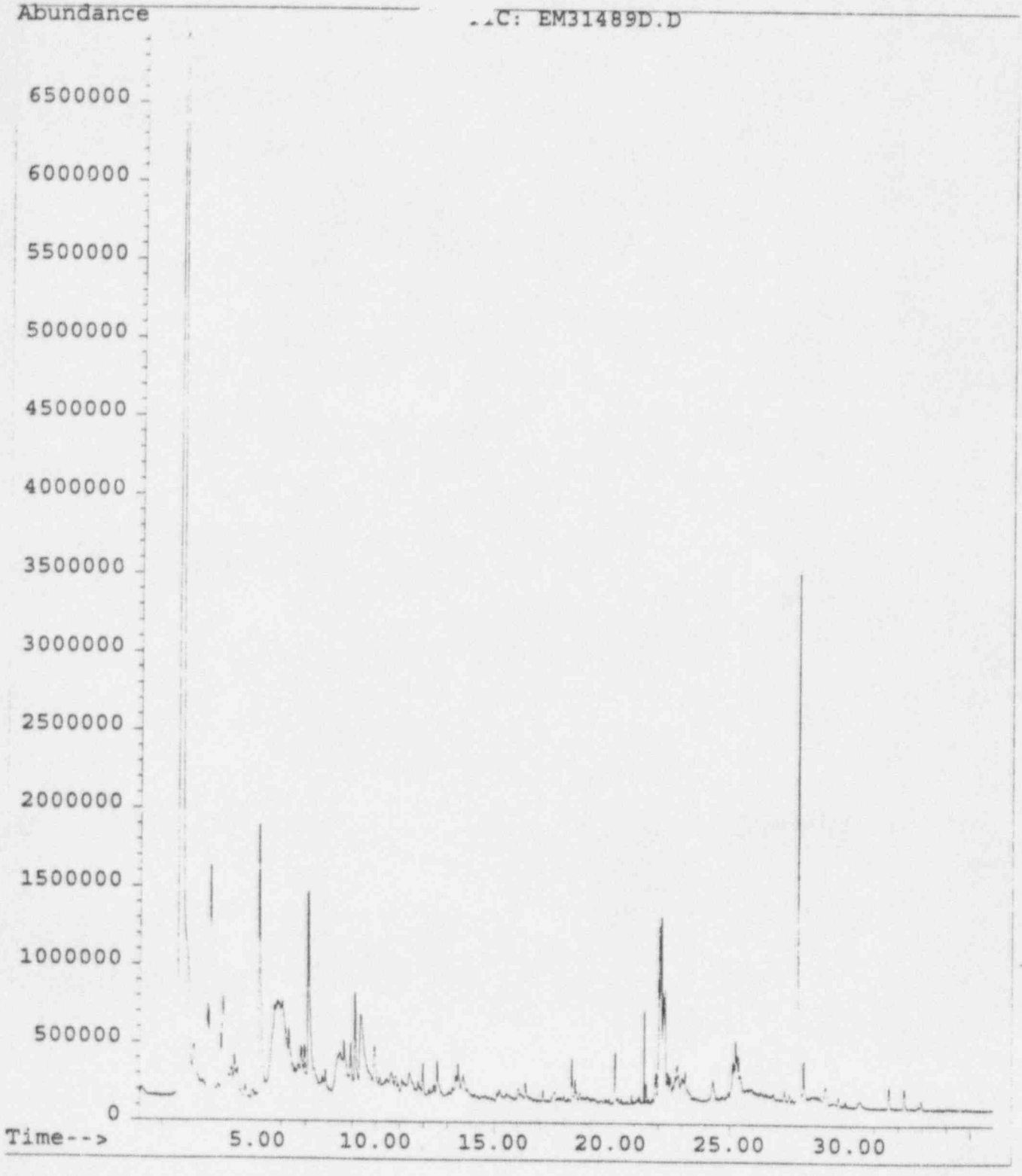
Area Percent Report -- Sorted by Signal

Information from Data File:
File : C:\HPCHEM\1\DATA\EM31489C.D
Operator : Marti
Acquired : 13 Mar 95 5:43 pm using AcqMethod EM31492
Sample Name: 0395-10c
Misc Info : Pyrolysis of thermolag samples
Vial Number: 1
CurrentMeth: C:\HPCHEM\1\METHODS\EM31492.M

Retention Time	Area	Area %	Ratio %
55.00 amu			
1.795	3108452	3.334	3.897
1.954	4794129	5.142	6.010
2.306	2078782	2.230	2.606
2.859	79772053	85.561	100.000
3.331	3480517	3.733	4.363
69.00 amu			
2.123	5248677	9.631	11.015
2.989	47651187	87.437	100.000
3.824	1597664	2.932	3.353

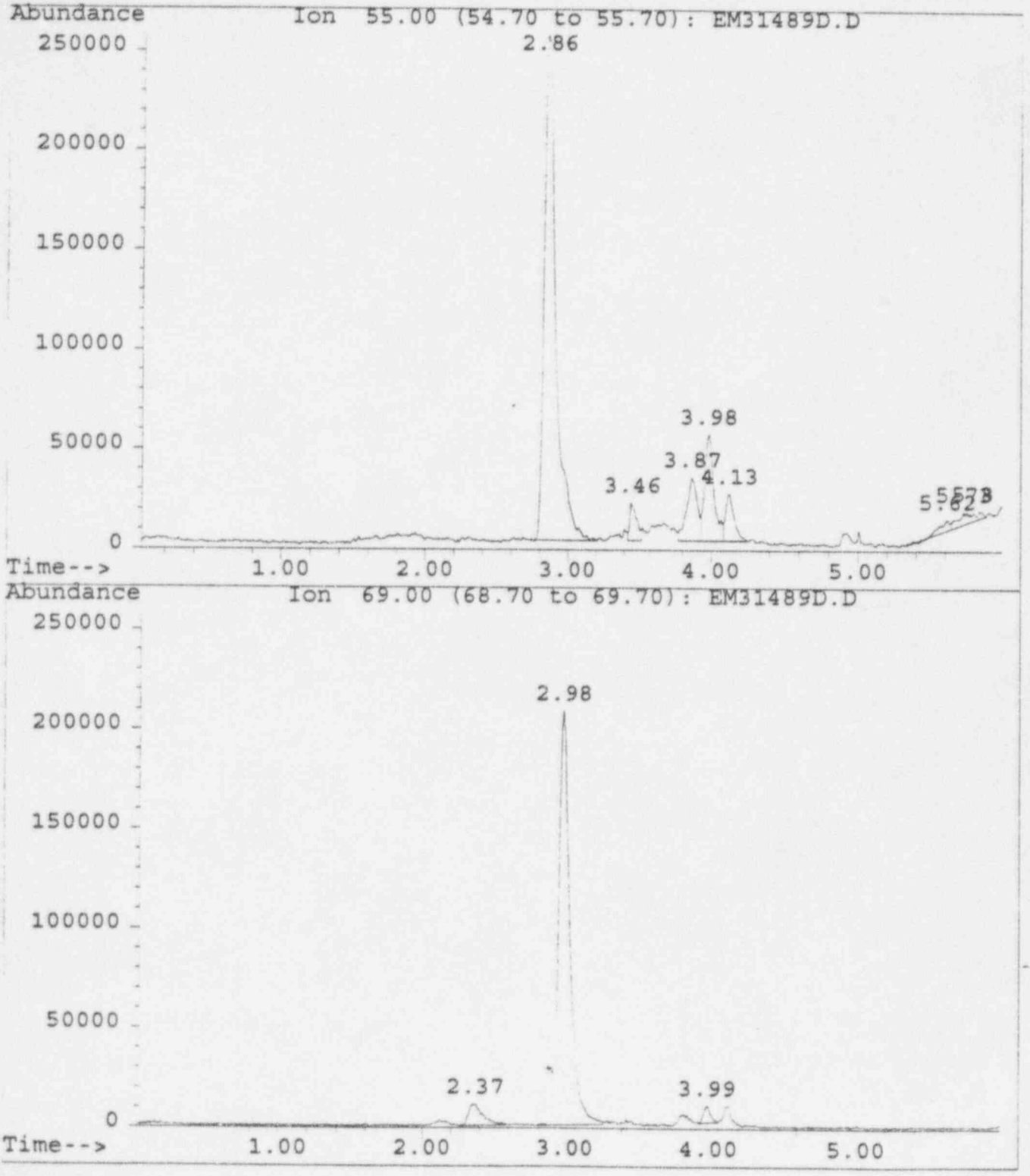
File : C:\HPCHEM\1\DATA\EM31489D.D
Operator : Marti
Acquired : 14 Mar 95 9:48 am using AcqMethod EM31492
Instrument : 5972 - 33
Sample Name: 0395-10d
Misc Info : Pyrolysis of thermolag samples
Vial Number: 1

RE 7



File : C:\HPCHEM\1\DATA\EM31489D.D
Operator : Marti
Acquired : 14 Mar 95 9:48 am using AcqMethod EM31492
Instrument : 5972 - 33
Sample Name: 0395-10d
Misc Info : Pyrolysis of thermolag samples
Vial Number: 1

FIGURE 8



Information from Data File:
File : C:\HPCHEM\1\DATA\EM31489D.D
Operator : Marti
Acquired : 14 Mar 95 9:48 am using AcqMethod EM31492
Sample Name: 0395-10d
Misc Info : Pyrolysis of thermolag samples
Vial Number: 1

Search Libraries: C:\DATABASE\NBS75K.L Minimum Quality: 0

Unknown Spectrum: Apex
Integration Params: AutoIntegrate

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	1.72	33.48	C:\DATABASE\NBS75K.L			
			No matches found			
2	2.30	2.00	C:\DATABASE\NBS75K.L			
			2-Propanol, 1-amino-	353	000078-96-6	32
			Ethanol, 2-[(1-methylene-2-propeny	2893	038653-51-9	10
			3-Hexyne-2,5-diol	64117	003031-66-1	9
3	2.98	4.73	C:\DATABASE\NBS75K.L			
			2-Propenoic acid, 2-methyl-, 3-hyd	8333	002761-09-3	40
			2-Butenoic acid, methyl ester, (E)	63312	000623-43-8	27
			2-Butenoic acid, methyl ester, (E)	1458	000623-43-8	27
4	3.51	2.78	C:\DATABASE\NBS75K.L			
			1-Penten-3-yne, 2-methyl-	62647	000926-55-6	50
			1-Decyne	65924	000764-93-2	43
			1-Decyne	7027	000764-93-2	43
5	3.86	0.52	C:\DATABASE\NBS75K.L			
			2-Octene	63998	000111-67-1	38
			2-Octene, (Z)-	64044	007642-04-8	35
			Cyclohexane, 1,2-dimethyl-, cis-	63989	002207-01-4	25
6	3.99	1.04	C:\DATABASE\NBS75K.L			
			Cyclohexane, 1,2-dimethyl-, cis-	2653	002207-01-4	50
			4-Octene, (E)-	64040	014850-23-8	50
			Cyclohexane, 1,2-dimethyl-, cis-	63989	002207-01-4	50
7	5.03	4.25	C:\DATABASE\NBS75K.L			
			Pyridine, 3-methyl-	63044	000108-99-6	95
			Pyridine, 3-methyl-	981	000108-99-6	95
			Pyridine, 3-methyl-	63046	000108-99-6	91
8	5.83	6.01	C:\DATABASE\NBS75K.L			
			Phenol	63071	000108-95-2	95
			Phenol	63072	000108-95-2	94
			Phenol	63069	000108-95-2	91
9	6.01	3.13	C:\DATABASE\NBS75K.L			
			Phenol	63072	000108-95-2	91
			Phenol	63071	000108-95-2	90
			Phenol	63069	000108-95-2	90

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
10	6.30	2.09	C:\DATABASE\NBS75K.L			
			Phenol	63071	000108-95-2	91
			Phenol	63070	000108-95-2	83
			Phenol	63072	000108-95-2	78
11	6.81	1.38	C:\DATABASE\NBS75K.L			
			Pyridine, 3-ethyl-	63740	000536-78-7	91
			Pyridine, 3-ethyl-	63739	000536-78-7	58
			Pyridine, 2,6-dimethyl-	2054	000108-48-5	38
12	6.95	0.76	C:\DATABASE\NBS75K.L			
			Phenol	63070	000108-95-2	47
			2,4-Heptadien-6-ynal, (E,E)-	2017	007200-04-6	38
			Phenol	63071	000108-95-2	35
13	7.10	4.18	C:\DATABASE\NBS75K.L			
			Pyridine, 3,5-dimethyl-	63720	000591-22-0	95
			Pyridine, 3,5-dimethyl-	2047	000591-22-0	93
			Pyridine, 2,5-dimethyl-	2046	000589-93-5	93
14	7.85	0.57	C:\DATABASE\NBS75K.L			
			Benzenemethanamine, N-methyl-	3847	000103-67-3	42
			Phenol	63070	000108-95-2	35
			Phenol	63069	000108-95-2	35
15	8.46	2.16	C:\DATABASE\NBS75K.L			
			Phenol, 3-methyl-	63780	000108-39-4	96
			Phenol, 3-methyl-	63781	000108-39-4	94
			Phenol, 4-methyl-	63786	000106-44-5	89
16	8.63	1.27	C:\DATABASE\NBS75K.L			
			Pyridine, 2,3,6-trimethyl-	3822	001462-84-6	90
			Benzyl Alcohol	2119	000100-51-6	70
			Benzyl Alcohol	63783	000100-51-6	55
17	8.92	0.84	C:\DATABASE\NBS75K.L			
			Aniline, N-methyl-	63713	000100-61-8	81
			Pyridine, 3-ethyl-5-methyl-	3821	003999-78-8	60
			Benzenamine, 3,4-dimethyl-	3838	000095-64-7	60
18	9.11	1.43	C:\DATABASE\NBS75K.L			
			Pyridine, 5-ethenyl-2-methyl-	3656	000140-76-1	87
			Bicyclo[4.1.0]hept-4-en-3-ol, 3,7,	10368	004017-81-6	38
			Benzene, methyl(1-methylethyl)-	6208	025155-15-1	38
19	9.35	3.58	C:\DATABASE\NBS75K.L			
			Benzenamine, 4-propoxy-	10015	004469-80-1	53
			2(1H)-Pyridinone, 1-methyl-	63813	000694-85-9	52
			1H-Pyrrole-2-carboxaldehyde, 1-met	63814	001192-58-1	43
20	9.92	1.10	C:\DATABASE\NBS75K.L			
			1H-Pyrrole, 2,3,4,5-tetramethyl-	4056	001003-90-3	76
			Phenol, 2,6-dimethyl-	64673	000576-26-1	35
			Benzene, 1-methoxy-4-methyl-	64711	000104-93-8	27

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
21	10.65	0.66	C:\DATABASE\NBS75K.L			
			Xanthine, 1,3-dipropyl-8-[4-[.beta	61073	000000-00-0	22
			Phenol, 3-(2-aminoethyl)-	6755	000588-05-6	22
			Benzyl Alcohol	63785	000100-51-6	18
22	11.09	0.46	C:\DATABASE\NBS75K.L			
			Oxetane, 2-propyl-	1554	004468-64-8	30
			Phosphine, diphenyl-	19504	000829-85-6	27
			1,4-Benzenediamine	63757	000106-50-3	27
23	11.40	0.96	C:\DATABASE\NBS75K.L			
			Ethanol, 2-phenoxy-	6911	000122-99-6	83
			Ethanol, 2-phenoxy-	65895	000122-99-6	42
			Ethanone, 1-(8-hydroxy-5-quinoliny	57998	057130-91-3	27
24	11.97	0.33	C:\DATABASE\NBS75K.L			
			3-Pyrrolidinecarboxylic acid, 1-me	8140	042346-68-9	27
			Pentanedioic acid, 2-methyl-, mono	12301	072088-36-9	27
			Butanamide, N-hexyl-	15488	010264-17-2	25
25	12.58	0.58	C:\DATABASE\NBS75K.L			
			Pentanedioic acid, diethyl ester	19778	000818-38-2	49
			Pentanedioic acid, diethyl ester	69156	000818-38-2	47
			Pentanedioic acid, diethyl ester	69155	000818-38-2	38
26	13.47	0.97	C:\DATABASE\NBS75K.L			
			3-Azabicyclo[3.2.1]octane, 9.beta.	11192	000000-00-0	35
			2H-Quinolizin-3-ol, octahydro-, tr	11200	015769-36-5	32
			Piperidine, 4-methyl-	63292	000626-58-4	27
27	13.68	0.67	C:\DATABASE\NBS75K.L			
			Pyridinium, 1-(1-carboxyethyl)-, h	9987	036880-54-3	38
			Benzenemethanol, 4-hydroxy-.alpha.	14272	000094-07-5	32
			2-Cyclohexen-1-one, 4-(3-hydroxy-1	24937	052210-15-8	30
28	16.05	0.26	C:\DATABASE\NBS75K.L			
			Hydrazine, butyl-, oxalate (1:1)	17011	006629-62-5	47
			Propanamide	62531	000079-05-0	46
			Hydrazine, (1,1-dimethylethyl)-, m	4094	007400-27-3	40
29	16.36	0.27	C:\DATABASE\NBS75K.L			
			Ethanol, 2-(2-phenoxyethoxy)-	18349	000104-68-7	78
			Ethanol, 2-(2-aminoethoxy)-	1965	000929-06-6	32
			Carbamic acid, 1-methylethyl ester	1812	001746-77-6	22
30	18.34	0.35	C:\DATABASE\NBS75K.L			
			2,5,8,11,14-Pentaoxapentadecane	70591	000143-24-8	43
			2-Pentanone, 5-methoxy-	64282	017429-04-8	43
			2-Butanol, 1-chloro-	2078	001873-25-2	38
31	18.49	0.20	C:\DATABASE\NBS75K.L			
			1-Butanol, 4-ethoxy-	3538	000111-73-9	38
			Propane, 1-ethoxy-2-methyl-	63543	000627-02-1	27
			2-Pentanone, 5-methoxy-	64282	017429-04-8	25

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
32	20.17	0.39	C:\DATABASE\NBS75K.L			
			1,5-Diphenyl-2H-1,2,4-triazoline-3	34508	005055-74-3	47
			1,3-Diphenyl-(4H)1,2,4-triazoline-	34507	000000-00-0	47
			4-Hexen-2-yn-1-one, 1-phenyl-5-(1-	34549	029743-43-9	37
33	21.40	0.33	C:\DATABASE\NBS75K.L			
			2-Amino-1-(O-methoxyphenyl)propane	13749	074702-94-6	50
			2-Aminonon-decane	40006	031604-55-4	47
			Benzeneethanamine, N-methyl-	65605	000589-08-2	47
34	21.90	0.37	C:\DATABASE\NBS75K.L			
			Butanamide	62880	000541-35-5	47
			Hydrazine, 2-ethyl-1,1-dimethyl-	829	029559-82-8	38
			2-Propanol, 1-[1-methyl-2-(2-prope	68438	055956-25-7	38
35	22.08	6.28	C:\DATABASE\NBS75K.L			
			2-Propanol, 1-[1-methyl-2-(2-prope	68438	055956-25-7	50
			2,5,8,11,14-Pentaoxapentadecane	70591	000143-24-8	47
			1-Propanol, 2-(2-hydroxypropoxy)-	6086	000106-62-7	47
36	22.79	0.94	C:\DATABASE\NBS75K.L			
			2-Propanol, 1,1'-[(1-methyl-1,2-et	20630	001638-16-0	43
			Butanamide	755	000541-35-5	43
			1-Butanol, 4-ethoxy-	3538	000111-73-9	42
37	23.01	0.48	C:\DATABASE\NBS75K.L			
			N-Desmethyldiphenhydramine	32185	000000-00-0	35
			N-Methyl-2-benzyloxyethylamine	13744	071126-62-0	35
			6H-Purin-6-one, 2-(dimethylamino)-	17389	001445-15-4	14
38	23.13	0.69	C:\DATABASE\NBS75K.L			
			2,4,6,8,9,10-Hexathiatricyclo[3.3.	46703	057289-12-0	14
			N-Isobutyl-11-(3,4-methylenedioxyp	49818	054794-74-0	9
39	24.31	0.37	C:\DATABASE\NBS75K.L			
			Methanone, bis(4-phenoxyphenyl)-	50989	014984-21-5	33
			Fumarylacetone diethoxime mono-TMS	44733	000000-00-0	23
			5-Ethyl-5-(2-methylallyl)-2-thioba	29018	000115-56-0	23
40	25.26	1.85	C:\DATABASE\NBS75K.L			
			Butanamide, 3-methyl-	1621	000541-46-8	46
			1-Propanol, 2-(2-methoxypropoxy)-	9232	013588-28-8	43
			2-Butanol, 3-methoxy-	1908	053778-72-6	38
41	27.86	3.97	C:\DATABASE\NBS75K.L			
			Octicizer	50542	001241-94-7	64
			7-Amino-2,3-dihydro-5-phenyl-1H-1,	34112	004928-02-3	59
			2-(4-Cyanophenyl)-5-dimethylaminom	34091	000000-00-0	45
42	28.09	0.51	C:\DATABASE\NBS75K.L			
			Benzene, 1,3-bis(1,1-dimethylethyl	69254	001014-60-4	7
43	29.00	0.37	C:\DATABASE\NBS75K.L			
			Benzene, 1,1',1''-[1-(bromomethyl)	53419	055373-93-8	35
			2,5-Dimethoxy-4-(methylthionyl)amp	35298	000000-00-0	28
			2,5-Dimethoxy-4-(methylthionyl)amp	35296	000000-00-0	28

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
44	31.61	0.24	C:\DATABASE\NBS75K.L			
			Phosphoric acid, tris(3-methylphen	51124	000563-04-2	99
			Phosphoric acid, tris(methylphenyl	51123	001330-78-5	95
			Phosphoric acid, tris(methylphenyl	73955	001330-78-5	93
45	32.25	0.22	C:\DATABASE\NBS75K.L			
			Phosphoric acid, tris(3-methylphen	51124	000563-04-2	98
			Phosphoric acid, tris(methylphenyl	73955	001330-78-5	93
			Phosphoric acid, tris(4-methylphen	51126	000078-32-0	93

Area Percent Report -- Sorted by Signal

Information from Data File:
File : C:\HPCHEM\1\DATA\EM31489D.D
Operator : Marti
Acquired : 14 Mar 95 9:48 am using AcqMethod EM31492
Sample Name: 0395-10d
Misc Info : Pyrolysis of thermolag samples
Vial Number: 1
CurrentMeth: C:\HPCHEM\1\METHODS\EM31492.M

Retention Time	Area	Area %	Ratio %
Total Ion Chromatogram			
1.720	864904975	33.479	100.000
2.304	51793128	2.005	5.988
2.983	122153025	4.728	14.123
3.501	71712443	2.776	8.291
3.863	13306795	0.515	1.539
3.989	26899765	1.041	3.110
5.036	109805770	4.250	12.696
5.829	155220471	6.008	17.947
6.014	80956508	3.134	9.360
6.293	53955591	2.089	6.238
6.815	35678664	1.381	4.125
6.947	19606494	0.759	2.267
7.100	107907648	4.177	12.476
7.847	14667667	0.568	1.696
8.461	55883243	2.163	6.461
8.638	32911851	1.274	3.805
8.923	21737456	0.841	2.513
9.106	37042946	1.434	4.283
9.350	92469908	3.579	10.691
9.923	28436161	1.101	3.288
10.653	16940600	0.656	1.959
11.094	11897229	0.461	1.376
11.402	24821299	0.961	2.870
11.975	8412130	0.326	0.973
12.580	14907776	0.577	1.724
13.468	25174823	0.974	2.911
13.674	17246015	0.668	1.994
16.058	6750958	0.261	0.781
16.364	6989122	0.271	0.808
18.349	9031888	0.350	1.044
18.491	5086110	0.197	0.588
20.168	10025571	0.388	1.159
21.402	8646248	0.335	1.000
21.904	9467345	0.366	1.095
22.081	162321953	6.283	18.768

Area Percent Report -- Sorted by Signal

Information from Data File:
File : C:\HPCHEM\1\DATA\EM31489D.D
Operator : Marti
Acquired : 14 Mar 95 9:48 am using AcqMethod EM31492
Sample Name: 0395-10d
Misc Info : Pyrolysis of thermolag samples
Vial Number: 1
CurrentMeth: C:\HPCHEM\1\METHODS\EM31492.M

Retention Time	Area	Area %	Ratio %
22.794	24175370	0.936	2.795
23.004	12353747	0.478	1.428
23.132	17702998	0.685	2.047
24.304	9447188	0.366	1.092
25.265	47728988	1.848	5.518
27.860	102543144	3.969	11.856
28.092	13213616	0.511	1.528
28.993	9517746	0.368	1.100
31.611	6295834	0.244	0.728
32.252	5685641	0.220	0.657

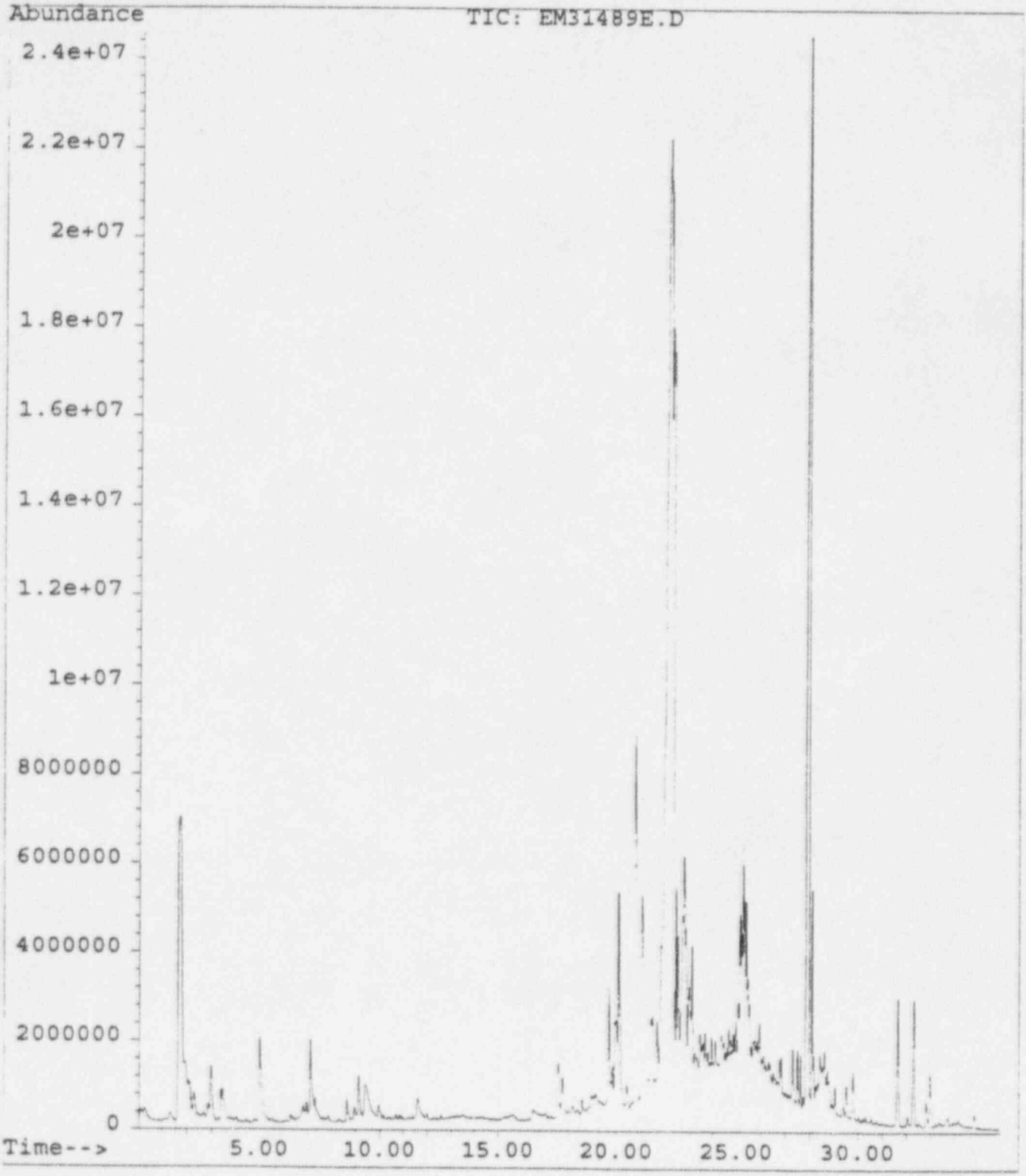
Area Percent Report -- Sorted by Signal

Information from Data File:
File : C:\HPCHEM\1\DATA\EM31489D.D
Operator : Marti
Acquired : 14 Mar 95 9:48 am using AcqMethod EM31492
Sample Name: 0395-10d
Misc Info : Pyrolysis of thermolag samples
Vial Number: 1
CurrentMeth: C:\HPCHEM\1\METHODS\EM31492.M

Retention Time	Area	Area %	Ratio %
55.00 amu			
2.858	14232183	69.286	100.000
3.459	630852	3.071	4.433
3.871	1581982	7.701	11.116
3.984	2385406	11.613	16.761
4.126	993505	4.837	6.981
5.618	227254	1.106	1.597
5.731	405181	1.973	2.847
5.842	84900	0.413	0.597
69.00 amu			
2.3[illegible]	747241	5.567	6.027
2.984	12397983	92.361	100.000
3.992	278214	2.073	2.244

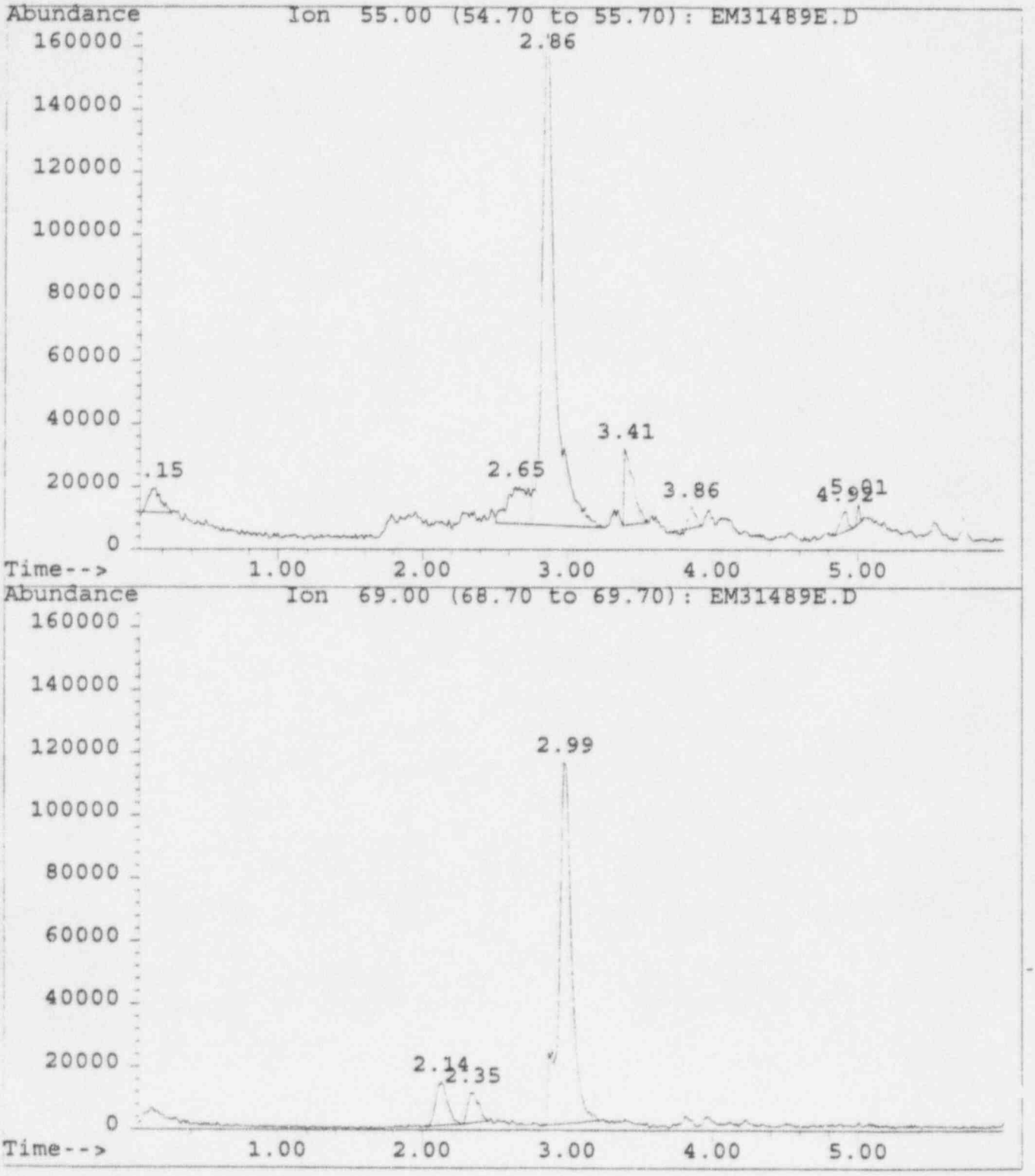
File : C:\HPCHEM\1\DATA\EM31489E.D
Operator : Marti
Acquired : 14 Mar 95 8:57 am using AcqMethod EM31492
Instrument : 5972 - 33
Sample Name: 0395-10e
Misc Info : Pyrolysis of thermolag samples
Vial Number: 1

FIGURE 9



File : C:\HPCHEM\1\DATA\EM31489E.D
Operator : Marti
Acquired : 14 Mar 95 8:57 am using AcqMethod EM31492
Instrument : 5972 - 33
Sample Name: 0395-10e
Misc Info : Pyrolysis of thermolag samples
Vial Number: 1

FIGURE 10



Information from Data File:
File : C:\HPCHEM\1\DATA\EM31489E.D
Operator : Marti
Acquired : 14 Mar 95 8:57 am using AcqMethod EM31492
Sample Name: 0395-10e
Misc Info : Pyrolysis of thermolag samples
Vial Number: 1

Search Libraries: C:\DATABASE\NBS75K.L Minimum Quality: 0

Unknown Spectrum: Apex
Integration Params: AutoIntegrate

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	1.73	4.76	C:\DATABASE\NBS75K.L			
			No matches found			
2	1.92	0.83	C:\DATABASE\NBS75K.L			
			No matches found			
3	2.11	0.39	C:\DATABASE\NBS75K.L			
			Furan, 2,5-dihydro-	62434	001708-29-8	58
			2-Propenal, 2-methyl-	62430	000078-85-3	55
			Vinyl Ether	62451	000109-93-3	50
4	2.30	0.31	C:\DATABASE\NBS75K.L			
			Furan, 2-methyl-	463	000534-22-5	91
			Furan, 2-methyl-	62666	000534-22-5	81
			Furan, 2-methyl-	62665	000534-22-5	74
5	2.88	0.12	C:\DATABASE\NBS75K.L			
			2-Propenoic acid, ethyl ester	1461	000140-88-5	41
			2-Propenoic acid, ethyl ester	63319	000140-88-5	38
			2-Propenoic acid, ethyl ester	63318	000140-88-5	38
6	2.99	0.51	C:\DATABASE\NBS75K.L			
			2-Butanamine, 3-methyl-	774	000598-74-3	43
			2-Octanamine	65170	000693-16-3	42
			2-Propanamine	105	000075-31-0	40
7	3.41	0.14	C:\DATABASE\NBS75K.L			
			1H-1,2,4-Triazole-3-carboxaldehyde	2402	056804-98-9	10
			2-Oxetanone, 4,4-dimethyl-	1450	001823-52-5	10
			Cyclopentane, 1,1-dimethyl-	1333	001638-26-2	9
8	3.48	0.30	C:\DATABASE\NBS75K.L			
			1-Penten-3-yne, 2-methyl-	62647	000926-55-6	50
			Metronidazole	15396	000443-48-1	38
			1H-Pyrrole, 1-methyl-	62656	000096-54-8	38
9	5.03	0.83	C:\DATABASE\NBS75K.L			
			Pyridine, 3-methyl-	63044	000108-99-6	94
			Pyridine, 3-methyl-	981	000108-99-6	94
			Pyridine, 3-methyl-	63045	000108-99-6	94

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
10	6.81	0.10	C:\DATABASE\NBS75K.L			
			Phenol	63072	000108-95-2	78
			Phenol	1010	000108-95-2	78
			Phenol	63069	000108-95-2	60
11	6.95	0.08	C:\DATABASE\NBS75K.L			
			Pyrimidine, 5-methyl-	1004	002036-41-1	47
			Phenol	63072	000108-95-2	46
			Phenol	63071	000108-95-2	46
12	7.11	0.56	C:\DATABASE\NBS75K.L			
			Pyridine, 2,4-dimethyl-	63733	000108-47-4	94
			Pyridine, 2,5-dimethyl-	2046	000589-93-5	93
			Pyridine, 2,5-dimethyl-	63719	000589-93-5	91
13	7.31	0.02	C:\DATABASE\NBS75K.L			
			Pyridine, 2,3-dimethyl-	63735	000583-61-9	92
			Pyridine, 2,6-dimethyl-	2054	000108-48-5	78
			Phenol	63072	000108-95-2	70
14	8.62	0.12	C:\DATABASE\NBS75K.L			
			Pyridine, 2,3,5-trimethyl-	3839	000695-98-7	93
			Pyridine, 2,3,6-trimethyl-	3822	001462-84-6	87
			Pyridine, 2,3,6-trimethyl-	64607	001462-84-6	87
15	8.93	0.12	C:\DATABASE\NBS75K.L			
			Aniline, N-methyl-	63713	000100-61-8	83
			Benzenamine, 2-methyl-	63716	000095-53-4	64
			Phenol, 3-methyl-	63780	000108-39-4	59
16	9.11	0.34	C:\DATABASE\NBS75K.L			
			4-Aminostyrene	3652	001520-21-4	81
			Pyridine, 5-ethenyl-2-methyl-	3656	000140-76-1	64
			Benzene, isocyanato-	3642	000103-71-9	49
17	9.40	0.73	C:\DATABASE\NBS75K.L			
			Benzenamine, 4-propoxy-	10015	004469-80-1	59
			2,3-Pyridinediamine	2194	000452-58-4	58
			Phenol, 3-amino-	2210	000591-27-5	52
18	9.96	0.05	C:\DATABASE\NBS75K.L			
			1H-Pyrrole, 2,3,4,5-tetramethyl-	4056	001003-90-3	70
			Pyridine, 4-ethyl-, 1-oxide	4042	014906-55-9	30
			1H-Pyrrole, 3-ethyl-2,5-dimethyl-	4061	069687-78-1	25
19	11.61	0.29	C:\DATABASE\NBS75K.L			
			Ethanol, 2-phenoxy-	6911	000122-99-6	96
			Ethanol, 2-phenoxy-	65894	000122-99-6	90
			Ethanol, 2-phenoxy-	65895	000122-99-6	90
20	16.49	0.07	C:\DATABASE\NBS75K.L			
			Phenol, 4-(1,1,3,3-tetramethylbuty	24424	000140-66-9	93
			Phenol, 4-(2,2,3,3-tetramethylbuty	24409	054932-78-4	80
			Phenol, 4-(1,1,3,3-tetramethylbuty	70047	000140-66-9	80

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
21	17.55	0.47	C:\DATABASE\NBS75K.L			
			1-Propanol, 2-(2-hydroxypropoxy)-	6086	000106-62-7	38
			2-Propanol, 1,1'-[(1-methyl-1,2-et	69286	001638-16-0	38
			Butanoic acid, 2-hydroxy-, methyl	3508	029674-47-3	35
22	17.73	0.39	C:\DATABASE\NBS75K.L			
			2,5,8,11,14-Pentaoxapentadecane	28004	000143-24-8	38
			2-Propanol, 1-(2-methoxypropoxy)-	9233	013429-07-7	35
			2-Butanol, 1-chloro-	2078	001873-25-2	35
23	18.58	0.08	C:\DATABASE\NBS75K.L			
			1-Propanol, 2-(2-hydroxypropoxy)-	6086	000106-62-7	47
			2,5,8,11,14-Pentaoxapentadecane	70592	000143-24-8	47
			2-Propanol, 1,1'-[(1-methyl-1,2-et	20630	001638-16-0	47
24	18.96	0.08	C:\DATABASE\NBS75K.L			
			Phenol, nonyl-	70560	025154-52-3	95
			4-Nonylphenol	70559	000104-40-5	50
			Benzeneacetonitrile, 3-fluoro-	65593	000501-00-8	38
25	19.07	0.05	C:\DATABASE\NBS75K.L			
			Phenol, nonyl-	70560	025154-52-3	93
			4-Nonylphenol	70559	000104-40-5	70
			Benzeneacetonitrile, 3-fluoro-	65593	000501-00-8	46
26	19.14	0.09	C:\DATABASE\NBS75K.L			
			Phenol, nonyl-	70560	025154-52-3	76
			4-Nonylphenol	70559	000104-40-5	45
			Benzeneacetonitrile, 3-fluoro-	6265	000501-00-8	38
27	19.70	0.70	C:\DATABASE\NBS75K.L			
			Mandelic acid, 3,4-dimethoxy-, met	29038	002911-73-1	25
			Benzene, dichloromethyl(1-methylet	22825	054889-89-3	15
			1-Hydroxy-4-hydrazonomethyl-2,2,5,	22779	051973-32-1	15
28	19.86	0.24	C:\DATABASE\NBS75K.L			
			Tetradecanoic acid	70842	000544-63-8	95
			Tetradecanoic acid	29646	000544-63-8	95
			Tetradecanoic acid	70841	000544-63-8	95
29	19.98	0.57	C:\DATABASE\NBS75K.L			
			(11H)Pyrido[3',2':4,5]imidazo[2,1-	34486	000000-00-0	38
			4-Hexen-2-yn-1-one, 1-phenyl-5-(1-	34549	029743-43-9	37
			trans-2,4,5-Trimethoxy-.beta.-meth	34473	000000-00-0	25
30	20.02	0.43	C:\DATABASE\NBS75K.L			
			1,3-Diphenyl-(4H)1,2,4-triazoline-	34507	000000-00-0	47
			1,5-Diphenyl-2H-1,2,4-triazoline-3	34508	005055-74-3	43
			4-Hexen-2-yn-1-one, 1-phenyl-5-(1-	34549	029743-43-9	37
31	20.11	1.68	C:\DATABASE\NBS75K.L			
			1-Methyl-2-(4-nitrophenyl)benzimid	34504	000000-00-0	32
			6-(2-Formylhydrazino)-N,N'-bis(iso	34454	084305-82-8	14
			Benzaldehyde, 4-[[4-(dimethylamino	34523	000000-00-0	14

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
32	20.45	0.16	C:\DATABASE\NBS75K.L			
			1-Propene, 3,3'-thiobis-	64133	000592-88-1	22
			Nordextrorphan	32550	000000-00-0	18
			Ethanol, 2-[2-(2-phenoxyethoxy)eth	29066	007204-16-2	14
33	20.81	2.82	C:\DATABASE\NBS75K.L			
			Benzenemethanamine, N-[[[4-hydroxy	34946	000000-00-0	11
			Thiourea, N-(2-methylpropyl)-N'-ph	24826	016275-53-9	10
			Thiourea, N-(1-methylpropyl)-N'-ph	24827	015093-37-5	10
34	21.09	2.85	C:\DATABASE\NBS75K.L			
			1,3-Dioxolane, 2-(4-methoxyphenyl)	21216	000000-00-0	43
			Silanol, trimethyl-, benzoate	69391	002078-12-8	35
			Silanol, trimethyl-, benzoate	69390	002078-12-8	35
35	21.46	0.65	C:\DATABASE\NBS75K.L			
			1'H-Androst-16-eno[17,16-g]indol-3	54335	056196-20-4	27
			2-(4-(Dimethylamino)-1-naphthyl)na	46514	000000-00-0	14
			Phosphonofluoridothioic hydrazide,	11251	036267-52-4	14
36	21.49	0.56	C:\DATABASE\NBS75K.L			
			1'H-Androst-16-eno[17,16-b]indol-3	54336	039987-70-7	12
			2,4,6,8,9,10-Hexathiatricyclo[3.3.	46703	057289-12-0	10
			Phosphonofluoridothioic hydrazide,	11251	036267-52-4	10
37	21.68	0.78	C:\DATABASE\NBS75K.L			
			5,9-Methanobenzocycloocten-5(1H)-o	38886	016004-84-5	47
			Phenol, 4,6-di(1,1-dimethylethyl)-	27703	000616-55-7	43
			Butylated Hydroxytoluene	70551	000128-37-0	38
38	22.18	19.87	C:\DATABASE\NBS75K.L			
			2-Butanol, 3-methoxy-	1908	053778-72-6	46
			Propane, 1,2-dimethoxy-	63620	007778-85-0	46
			1-Chloro-2-ethoxyethane	2079	000628-34-2	43
39	22.25	3.07	C:\DATABASE\NBS75K.L			
			1-Chloro-2-ethoxyethane	2079	000628-34-2	46
			2-Butanol, 3-methoxy-	1908	053778-72-6	43
			Propane, 1,2-dimethoxy-	63620	007778-85-0	43
40	22.33	7.69	C:\DATABASE\NBS75K.L			
			Methane, diethoxy-	63623	000462-95-3	43
			2-Butanol, 3-methoxy-	1908	053778-72-6	38
			Ethane, 1-bromo-2-ethoxy-	10074	000592-55-2	37
41	22.48	1.07	C:\DATABASE\NBS75K.L			
			Tricyclo[4.3.1.13,8]undecane-3-car	24919	031061-61-7	38
			1,2-Benzenedicarboxylic acid, dipr	33901	000131-16-8	35
			Dibutyl phthalate	72212	000084-74-2	35
42	22.55	1.19	C:\DATABASE\NBS75K.L			
			Stannane, diethyldimethyl-	24682	004282-05-7	38
			Silanol, trimethyl-, benzoate	69391	002078-12-8	30
			1,3-Dioxolane, 2-(4-methoxyphenyl)	21216	000000-00-0	27

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
43	22.76	1.72	C:\DATABASE\NBS75K.L			
			2-Propanol, 1-[1-methyl-2-(2-prope	68438	055956-25-7	59
			Methane, diethoxy-	63623	000462-95-3	50
			1-Propanol, 2-(2-hydroxypropoxy)-	6086	000106-62-7	50
44	22.80	1.94	C:\DATABASE\NBS75K.L			
			1-Propanol, 2-(2-hydroxypropoxy)-	6086	000106-62-7	47
			Methane, diethoxy-	63623	000462-95-3	47
			2-Hexanol, 2-methyl-	64355	000625-23-0	43
45	22.87	0.88	C:\DATABASE\NBS75K.L			
			2-Naphthalenemethanol, decahydro-.	28201	000473-15-4	58
			2-Propanol, 1-[1-methyl-2-(2-prope	68438	055956-25-7	43
			Butane, 2-methoxy-	854	006795-87-5	38
46	23.03	1.44	C:\DATABASE\NBS75K.L			
			6H-Purin-6-one, 2-(dimethylamino)-	17389	001445-15-4	53
			2',4'-Dimethoxy-3'-methylpropiophe	24862	077942-13-3	50
			Stannane, diethyldimethyl-	24682	004282-05-7	42
47	23.14	1.02	C:\DATABASE\NBS75K.L			
			Pipercallosine [(2E,4E)-N-isobutyl	46761	083029-39-4	10
			7-Silabicyclo[2.2.1]hept-5-ene-2-c	58285	056805-08-4	9
48	23.27	0.95	C:\DATABASE\NBS75K.L			
			Quinoline, 2-phenyl-	24119	000612-96-4	38
			Ethanone, 1-[4-(hydroxymethyl)-2-p	30459	067387-02-4	20
			2-Phenazinecarbonitrile	24085	006479-93-2	15
49	23.47	0.54	C:\DATABASE\NBS75K.L			
			8-Phenylisoquinoline	24122	070125-67-6	25
			1-(2,6-Dimethylbicyclo[4.3.0]non-1	24398	000000-00-0	25
			Thiazolo[5,4-d]pyrimidine, 5,7-dic	24004	013479-88-4	18
50	23.54	0.30	C:\DATABASE\NBS75K.L			
			Deacetylphytuberin	34336	000000-00-0	38
			Stannane, (1,1-dimethylethyl)triet	36486	035569-21-2	35
			Butanoic acid, 3-oxo-, 1,1-dimethy	11892	001694-31-1	10
51	23.63	0.49	C:\DATABASE\NBS75K.L			
			Cyclopentane, 1,1'-[3-(2-cyclopent	43532	055255-85-1	15
			2(1H)-Naphthalenone, octahydro-4a,	28234	055332-03-1	15
			5,9-Dimethyl-2-(1-methylethylidene	28752	069239-72-1	14
52	23.69	0.48	C:\DATABASE\NBS75K.L			
			Cyclohexane, (1-octylnonyl)-	73276	055124-77-1	58
			Hexadecane, 2,6,10,14-tetramethyl-	72329	000638-36-8	56
			1-Nonadecene	71890	018435-45-5	53
53	23.96	0.59	C:\DATABASE\NBS75K.L			
			Eicosane	72326	000112-95-8	95
			Heneicosane	42201	000629-94-7	95
			Heneicosane	72684	000629-94-7	95

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
54	24.12	1.02	C:\DATABASE\NBS75K.L			
			Heptadecane, 3-methyl-	34812	006418-44-6	45
			1-Octadecanethiol	40555	002885-00-9	25
			1,3-Dioxolane, 4-ethyl-5-octyl-2,2	49234	038274-73-6	22
55	24.38	1.06	C:\DATABASE\NBS75K.L			
			Octadecane, 3-ethyl-5-(2-ethylbuty	51003	055282-12-7	38
			Silane, [(11-iodoundecyl)oxy]trime	51281	026305-84-0	35
			Eicosane, 9-octyl-	53460	013475-77-9	22
56	24.47	0.34	C:\DATABASE\NBS75K.L			
			Octadecane, 1-chloro-	72490	003386-33-2	83
			1-Docosene	72943	001599-67-3	74
			Acetamide, N-methyl-N-[4-[4-methox	31490	000000-00-0	70
57	24.60	0.36	C:\DATABASE\NBS75K.L			
			Acetamide, N-methyl-N-[4-[4-methox	31490	000000-00-0	99
			Octadecane, 1-chloro-	72490	003386-33-2	93
			Cyclohexane, (1-octylnonyl)-	73277	055124-77-1	90
58	24.68	0.58	C:\DATABASE\NBS75K.L			
			Acetamide, N-methyl-N-[4-[4-methox	31490	000000-00-0	93
			Ethanol, 2-[2-[4-(1,1,3,3-tetramet	41793	002315-61-9	87
			Octadecane, 1-chloro-	72490	003386-33-2	56
59	24.77	0.54	C:\DATABASE\NBS75K.L			
			Acetamide, N-methyl-N-[4-[4-methox	31490	000000-00-0	99
			Eicosane	39862	000112-95-8	84
			Octadecane	34814	000593-45-3	84
60	24.88	0.55	C:\DATABASE\NBS75K.L			
			Acetamide, N-methyl-N-[4-[4-methox	31490	000000-00-0	95
			Tridecane 6-cyclohexyl-, 6-cyclohe	37071	013151-91-2	70
			Cyclohexane, (1-octylnonyl)-	73277	055124-77-1	70
61	24.97	0.63	C:\DATABASE\NBS75K.L			
			9-Phenanthrylmethyl 3-methoxybenzo	48430	000000-00-0	23
62	25.08	0.73	C:\DATABASE\NBS75K.L			
			Heneicosane	72685	000629-94-7	91
			Docosane	44318	000629-97-0	90
			Acetamide, N-methyl-N-[4-[4-methox	31490	000000-00-0	90
63	25.15	0.95	C:\DATABASE\NBS75K.L			
			2-Butanol, 3-methoxy-	1908	053778-72-6	43
			2-Propanol, 1-[1-methyl-2-(2-prope	16196	055956-25-7	38
			2-Propanol, 1-methoxy-2-methyl-	1912	003587-64-2	38
64	25.20	1.17	C:\DATABASE\NBS75K.L			
			2-Propanol, 1-[1-methyl-2-(2-prope	68438	055956-25-7	47
			Butanamide, 3-methyl-	1621	000541-46-8	43
			Propane, 1-ethoxy-2-methyl-	63544	000627-02-1	43
65	25.30	1.19	C:\DATABASE\NBS75K.L			
			3-Heptanol, 4-methyl-	65298	014979-39-6	38
			2-Hexanol, 2-methyl-	64355	000625-23-0	38
			1,8-Nonanediol, 8-methyl-	16264	054725-73-4	38

Pk#	RT	Area%	Library/ID .	Ref#	CAS#	Qual
66	25.37	1.17	C:\DATABASE\NBS75K.L			
			Pentanamide	1620	000626-97-1	43
			2-Hexanol, 2-methyl-	3353	000625-23-0	38
			Propane, 2-methoxy-	332	000598-53-8	38
67	25.42	0.80	C:\DATABASE\NBS75K.L			
			Propane, 1-ethoxy-2-methyl-	1772	000627-02-1	43
			Pentanamide	1620	000626-97-1	43
			Butane, 1-ethoxy-	63548	000628-81-9	43
68	25.49	1.40	C:\DATABASE\NBS75K.L			
			Heneicosane	72685	000629-94-7	90
			Eicosane	72326	000112-95-8	56
			Tricosane	46165	000638-67-5	55
69	25.75	0.77	C:\DATABASE\NBS75K.L			
			Acetamide, N-methyl-N-[4-[4-methox	31490	000000-00-0	96
			Docosane	44318	000629-97-0	91
			1-Docosene	72943	001599-67-3	83
70	25.86	0.33	C:\DATABASE\NBS75K.L			
			Acetamide, N-methyl-N-[4-[4-methox	31490	000000-00-0	89
			5,9-Dimethyl-2-(1-methylethylidene	28752	069239-72-1	53
			10-Heneicosene (c,t)	41868	000000-00-0	50
71	25.96	1.05	C:\DATABASE\NBS75K.L			
			Acetamide, N-[(4.alpha.,5.alpha.)-	55903	013944-35-9	30
			2H-1,4-Benzodiazepin-2-one, 7-chlo	55928	055319-93-2	15
			Benzeneacetic acid, .alpha.,3,4-tr	74565	037148-65-5	12
72	26.81	0.28	C:\DATABASE\NBS75K.L			
			3,5-Dibutoxy-1,1,1,7,7,7-hexamethy	60473	072439-85-1	9
			3,5-Diisopropoxy-1,1,1,7,7,7-hexam	59994	071579-67-4	9
73	26.87	0.40	C:\DATABASE\NBS75K.L			
			Benzyl butyl phthalate	44507	000085-68-7	95
			Benzyl butyl phthalate	73030	000085-68-7	72
			Benzene, 1-isothiocyanato-4-methyl	9449	000622-59-3	43
74	27.34	0.50	C:\DATABASE\NBS75K.L			
			Hexanedioic acid, bis(2-ethylhexyl	73987	000103-23-1	74
			Hexanedioic acid, dioctyl ester	51386	000123-79-5	49
			Hexanedioic acid, mono(2-ethylhexy	35514	004337-65-9	47
75	27.53	0.35	C:\DATABASE\NBS75K.L			
			Phosphoric acid, triphenyl ester	73338	000115-86-6	99
			Phosphoric acid, triphenyl ester	46311	000115-86-6	91
			Phosphoric acid, triphenyl ester	73337	000115-86-6	93
76	27.65	0.26	C:\DATABASE\NBS75K.L			
			1,1,1,5,7,7,7-Heptamethyl-3,3-bis(	56714	038147-00-1	38
			Trisiloxane, 1,1,1,5,5,5-hexamethy	52459	003555-47-3	22
			Heptasiloxane, hexadecamethyl-	59695	000541-01-5	10

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
77	27.75	0.11	C:\DATABASE\NBS75K.L			
			Pregnan-20-one, (5.alpha.,17.alpha	72829	007704-90-7	50
			Pregnan-3-one, (5.alpha.)-	43210	014778-11-1	38
			Chol-23-ene, (5.beta.)-	46698	054411-82-4	38
78	27.99	10.77	C:\DATABASE\NBS75K.L			
			Octicizer	50542	001241-94-7	87
			2-(4-Cyanophenyl)-5-dimethylaminom	34091	000000-00-0	47
			Benz[b]acridine, 1,2,3,4,7,8,9,10-	34157	055044-74-1	37
79	28.12	1.00	C:\DATABASE\NBS75K.L			
			No matches found			
80	28.18	0.24	C:\DATABASE\NBS75K.L			
			Quinoline, 4-[2-(4-methoxyphenyl)e	36082	031059-68-4	46
			Androstane, (5.alpha.,14.beta.)-	35961	022511-92-8	25
			Androstane, (5.beta.)-	71738	000438-23-3	15
81	28.27	0.12	C:\DATABASE\NBS75K.L			
			2-Naphthalenemethanol, 2,3,4,4a,5,	28228	063891-61-2	40
			Oxepane, 2,2,3-trimethyl-	1518	023120-43-6	38
			2-Butanol, 2,3-dimethyl-	63571	000594-60-5	35
82	28.33	0.14	C:\DATABASE\NBS75K.L			
			2-Pentanol, 3-chloro-2-methyl-	6423	074685-49-7	35
			Cyclooctanemethanol, .alpha.,.alph	15325	016624-06-9	35
			Octanal, 7-hydroxy-3,7-dimethyl-	15806	000107-75-5	35
83	28.39	0.13	C:\DATABASE\NBS75K.L			
			2-Propanol, 1-[2-(2-methoxy-1-meth	24251	020324-33-8	50
			1-Chloro-2-ethoxyethane	2079	000628-34-2	43
			2-Butanol, 2,3-dimethyl-	63571	000594-60-5	38
84	28.46	0.51	C:\DATABASE\NBS75K.L			
			Butanamide, 3-methyl-	1621	000541-46-8	38
			2-Propanol, 1-[1-methyl-2-(2-prope	16196	055956-25-7	38
			3-Ethyl-2-methyl-2-pentanol	5501	000000-00-0	38
85	28.56	0.24	C:\DATABASE\NBS75K.L			
			Propanoic acid, 2-hydroxy-2-methyl	5790	000080-55-7	50
			Pentane, 2-methoxy-	1778	006795-88-6	43
			3-Hydroxy-3-methyl-2-butanone	63477	000115-22-0	38
86	28.64	0.54	C:\DATABASE\NBS75K.L			
			1-Methamphetamine	9504	000000-00-0	43
			2-Hexanol, 2-methyl-	64354	000625-23-0	38
			2-Hexanol, 2-methyl-	64355	000625-23-0	38
87	28.76	0.25	C:\DATABASE\NBS75K.L			
			Propane, 1-ethoxy-2-methyl-	63543	000627-02-1	38
			Propane, 1-ethoxy-2-methyl-	63544	000627-02-1	38
			Butane, 2-methoxy-	854	006795-87-5	38
88	29.08	0.15	C:\DATABASE\NBS75K.L			
			Methylcitric acid, tetrakis(trimet	58778	000000-00-0	9

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
89	29.41	0.06	C:\DATABASE\NBS75K.L			
			Phosphine oxide, triphenyl-	72220	000791-28-6	89
			Phosphine oxide, triphenyl-	39186	000791-28-6	89
			(Carbethoxyethylidine)triphenylpho	50583	005717-37-3	68
90	29.54	0.16	C:\DATABASE\NBS75K.L			
			1,2-Benzenedicarboxylic acid, 3-ni	25513	000603-11-2	68
			Bis(2-ethylhexyl) phthalate	53128	000117-81-7	64
			1,2-Benzenedicarboxylic acid, decy	55241	000119-07-3	58
91	29.80	0.25	C:\DATABASE\NBS75K.L			
			Silane, [[4-[1,2-bis[(trimethylsil	57393	056114-62-6	27
			Heptasiloxane, hexadecamethyl-	59695	000541-01-5	22
			Benzoic acid, 2,5-bis(trimethylsil	51295	003618-20-0	15
92	31.65	0.79	C:\DATABASE\NBS75K.L			
			Phosphoric acid, tris(3-methylphen	51124	000563-04-2	99
			Phosphoric acid, tris(methylphenyl	73955	001330-78-5	93
			Phosphoric acid, tris(methylphenyl	51123	001330-78-5	91
93	32.05	0.07	C:\DATABASE\NBS75K.L			
			Phenol, diethyl-	9816	026967-65-7	50
			Benzothiazole	65591	000095-16-9	50
			Benzothiazole	6263	000095-16-9	50
94	32.31	0.86	C:\DATABASE\NBS75K.L			
			Phosphoric acid, tris(3-methylphen	51124	000563-04-2	99
			Phosphoric acid, tris(methylphenyl	73955	001330-78-5	94
			Phosphoric acid, tris(methylphenyl	51123	001330-78-5	94
95	32.82	0.19	C:\DATABASE\NBS75K.L			
			1,1,1,5,7,7,7-Heptamethyl-3,3-bis(	56714	038147-00-1	38
			Trisiloxane, 1,1,1,5,5,5-hexamethy	52459	003555-47-3	22
			Benzoic acid, 2,4-bis[(trimethylsi	73975	010586-16-0	15
96	32.99	0.36	C:\DATABASE\NBS75K.L			
			Phosphoric acid, tris(3-methylphen	51124	000563-04-2	98
			Phosphoric acid, tris(methylphenyl	73955	001330-78-5	93
			Phosphoric acid, tris(methylphenyl	51123	001330-78-5	91
97	34.89	0.09	C:\DATABASE\NBS75K.L			
			Silanol, trimethyl-, pyrophosphate	57733	018395-45-4	46
			Fluorene-2-carbonitrile, 9-(triphe	57099	007293-78-9	27
			1'H-Androst-2-eno[3,2-b]indol-17-o	57100	055401-42-8	12

Area Percent Report -- Sorted by Signal

Information from Data File:
File : C:\HPCHEM\1\DATA\EM31489E.D
Operator : Marti
Acquired : 14 Mar 95 8:57 am using AcqMethod EM31492
Sample Name: 0395-10e
Misc Info : Pyrolysis of thermolag samples
Vial Number: 1
CurrentMeth: C:\HPCHEM\1\METHODS\EM31492.M

Retention Time	Area	Area %	Ratio %
Total Ion Chromatogram			
1.724	711255783	4.762	23.972
1.917	124472202	0.833	4.195
2.109	58956852	0.395	1.987
2.303	45967364	0.308	1.549
2.878	17425144	0.117	0.587
2.990	75976141	0.509	2.561
3.406	21116542	0.141	0.712
3.479	44654307	0.299	1.505
5.025	124222452	0.832	4.187
6.810	15620990	0.105	0.526
6.952	11298866	0.076	0.381
7.102	84146483	0.563	2.836
7.314	3168995	0.021	0.107
8.619	18231534	0.122	0.614
8.932	18558897	0.124	0.626
9.112	50630396	0.339	1.706
9.397	109191335	0.731	3.680
9.952	7280850	0.049	0.245
11.610	44007262	0.295	1.483
16.488	9972645	0.067	0.336
17.561	69768182	0.467	2.351
17.739	58766886	0.393	1.981
18.578	11976985	0.080	0.404
18.968	12268901	0.082	0.414
19.073	7732646	0.052	0.261
19.136	13717457	0.092	0.462
19.708	103984678	0.696	3.505
19.859	36240792	0.243	1.221
19.980	85204207	0.570	2.872
20.019	63907208	0.428	2.154
20.108	251550437	1.684	8.478
20.454	23669654	0.158	0.798
20.813	420639205	2.816	14.177
21.086	425024798	2.846	14.325
21.450	97336353	0.652	3.281

Area Percent Report -- Sorted by Signal

Information from Data File:
File : C:\HPCHEM\1\DATA\EM31489E.D
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Acquired : 14 Mar 95 8:57 am using AcqMethod EM31492
Sample Name: 0395-10e
Misc Info : Pyrolysis of thermolag samples
Vial Number: 1
CurrentMeth: C:\HPCHEM\1\METHODS\EM31492.M

Retention Time	Area	Area %	Ratio %
21.497	83879841	0.562	2.827
21.683	116668269	0.781	3.932
22.187	2966985875	19.866	100.000
22.252	458508817	3.070	15.454
22.324	1147844428	7.685	38.687
22.476	160219894	1.073	5.400
22.551	178396395	1.194	6.013
22.755	257457987	1.724	8.677
22.805	289604000	1.939	9.761
22.878	131752226	0.882	4.441
23.025	214497697	1.436	7.229
23.136	152549345	1.021	5.142
23.268	142452953	0.954	4.801
23.472	80084041	0.536	2.699
23.542	44675313	0.299	1.506
23.624	73425029	0.492	2.475
23.688	72221026	0.484	2.434
23.957	88098127	0.590	2.969
24.116	151896682	1.017	5.120
24.372	157920566	1.057	5.323
24.476	50361009	0.337	1.697
24.610	53993318	0.362	1.820
24.681	86414282	0.579	2.913
24.776	80452898	0.539	2.712
24.877	81888827	0.548	2.760
24.973	94590812	0.633	3.188
25.078	109171905	0.731	3.680
25.157	142279463	0.953	4.795
25.206	174527988	1.169	5.882
25.292	177851161	1.191	5.994
25.371	174947996	1.171	5.896
25.415	118969585	0.797	4.010
25.490	208867895	1.398	7.040
25.748	115365987	0.772	3.888
25.854	48676920	0.326	1.641
25.958	156446561	1.047	5.273

Area Percent Report -- Sorted by Signal

Information from Data File:
File : C:\HPCHEM\1\DATA\EM31489E.D
Operator : Marti
Acquired : 14 Mar 95 8:57 am using AcqMethod EM31492
Sample Name: 0395-10e
Misc Info : Pyrolysis of thermolag samples
Vial Number: 1
CurrentMeth: C:\HPCHEM\1\METHODS\EM31492.M

Retention Time	Area	Area %	Ratio %
26.810	42456309	0.284	1.431
26.865	60073174	0.402	2.025
27.331	73956434	0.495	2.493
27.529	52475478	0.351	1.769
27.650	39473928	0.264	1.330
27.758	16154048	0.108	0.544
27.992	1609213996	10.775	54.237
28.126	149298672	1.000	5.032
28.187	36096398	0.242	1.217
28.270	17567819	0.118	0.592
28.323	21593217	0.145	0.728
28.382	20134644	0.135	0.679
28.452	76413430	0.512	2.575
28.561	35287650	0.236	1.189
28.640	81390531	0.545	2.743
28.756	37728967	0.253	1.272
29.077	22555810	0.151	0.760
29.411	8325974	0.056	0.281
29.538	23229228	0.156	0.783
29.811	37209344	0.249	1.254
31.659	118722220	0.795	4.001
32.047	10210847	0.068	0.344
32.313	128843343	0.863	4.343
32.827	27686528	0.185	0.933
32.993	54451243	0.365	1.835
34.889	12908456	0.086	0.435

Area Percent Report -- Sorted by Signal

Information from Data File:
File : C:\HPCHEM\1\DATA\EM31489E.D
Operator : Marti
Acquired : 14 Mar 95 8:57 am using AcqMethod EM31492
Sample Name: 0395-10e
Misc Info : Pyrolysis of thermolag samples
Vial Number: 1
CurrentMeth: C:\HPCHEM\1\METHODS\EM31492.M

Retention Time	Area	Area %	Ratio %
55.00 amu			
0.150	454162	3.468	4.571
2.650	1167401	8.915	11.751
2.862	9934705	75.868	100.000
3.410	1069712	8.169	10.767
3.863	171984	1.313	1.731
4.919	222676	1.701	2.241
5.010	74018	0.565	0.745
69.00 amu			
2.137	757847	9.076	10.695
2.352	505717	6.057	7.137
2.990	7086296	84.867	100.000