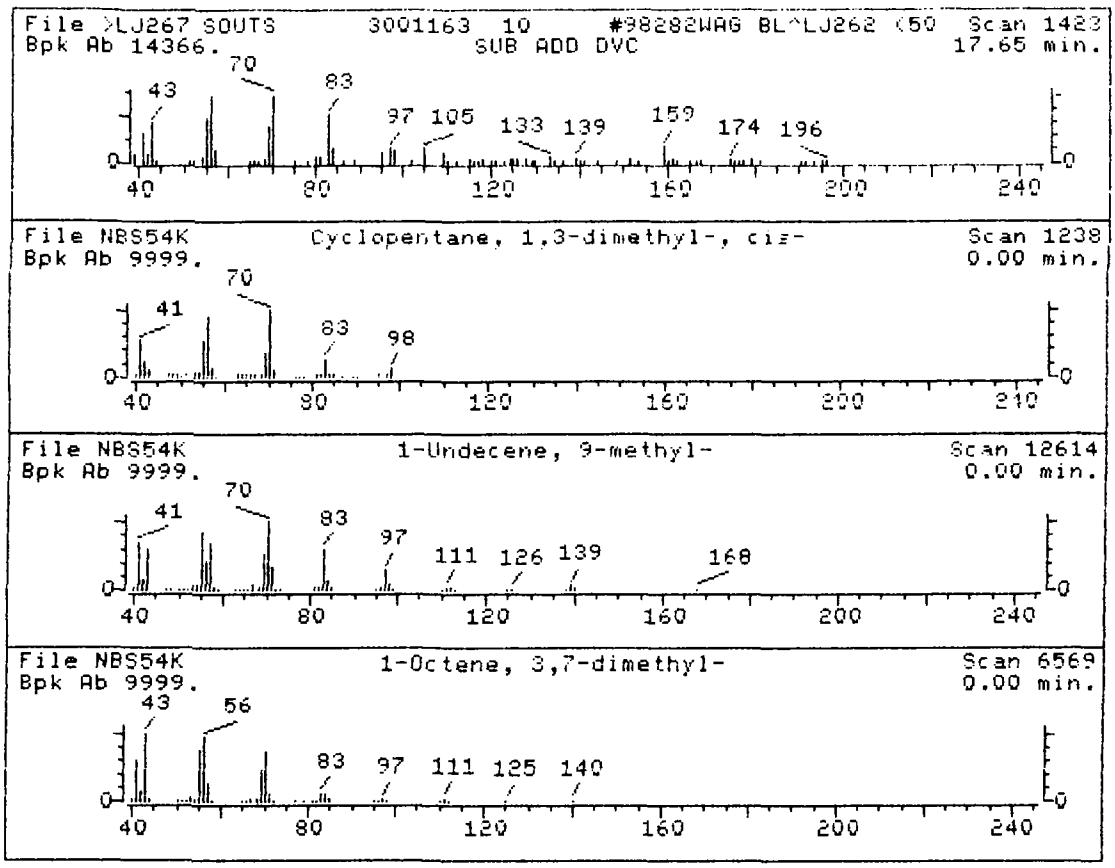


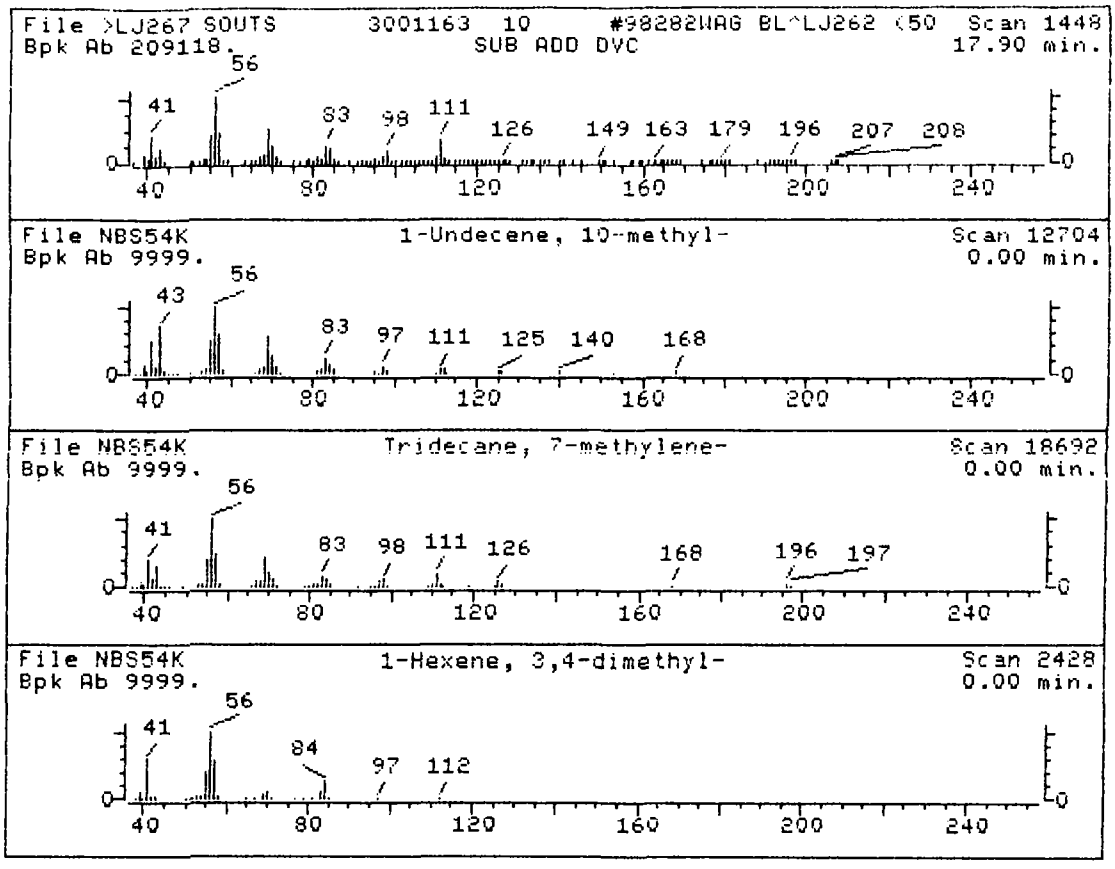
UNKNOWN
DB 10/14/98

1.	Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14
2.	1-Undecene, 9-methyl-	168	C12H24
3.	1-Octene, 3,7-dimethyl-	140	C10H20
4.	1-Undecene, 5-methyl-	168	C12H24
5.	2-CYCLOHEXYLIMINO-1,1-DICHLORO-3-METHYLBUTANE	235	C11H19Cl2N
6.	1-Decene, 9-methyl-	154	C11H22

Sample file: >LJ267 Spectrum #: 1423
Search speed: 3 Tilting option: N No. of ion ranges searched: 66

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	31*	2532583	4046	NBS54K	24	82	2	0	100	31	12	14
2.	28*	74630414	4302	NBS54K	42	63	2	0	76	37	10	14
3.	25*	4984014	4204	NBS54K	29	72	2	0	87	47	7	14
4.	25*	74630389	1245	NBS54K	25	80	3	0	93	50	7	13
5.	20*	26174	4419	NBS54K	30	35	1	0	100	55	5	16
6.	20*	61142787	1215	NBS54K	37	61	1	0	75	55	5	19

Sample # 3001163 Injected 10/12/98 at 15:32 on instrument # HP06754
Estimated Concentration: 19.77 ug/mL



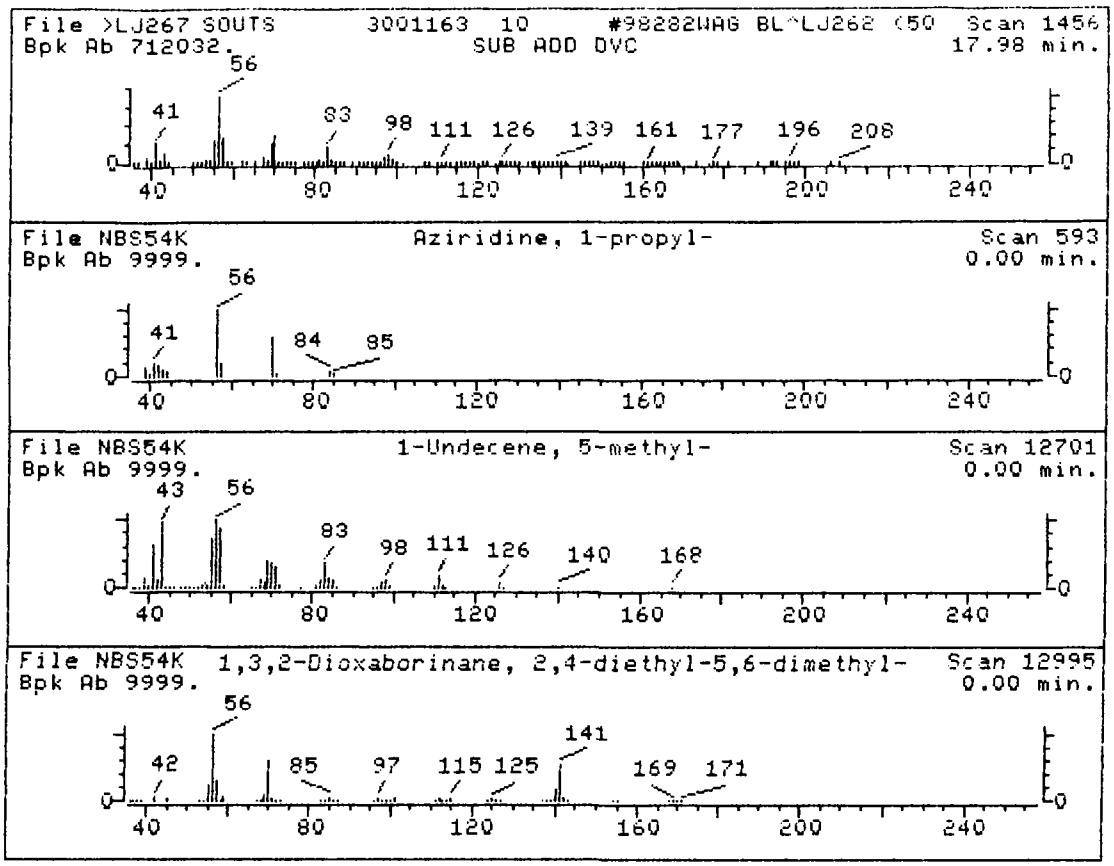
UNKNOWN
DB 10/14/98

1.	1-Undecene, 10-methyl-	168	C12H24
2.	Tridecane, 7-methylene-	196	C14H28
3.	1-Hexene, 3,4-dimethyl-	112	C8H16
4.	2H-1,3-Benzoxazine, 3-cyclohexyl-3,4-dihydro-	217	C14H19NO
5.	Cyclobutanone, 2,3-dimethyl-, trans-	98	C6H10O
6.	1-Decene, 9-methyl-	154	C11H22

Sample file: >LJ267 Spectrum #: 1448
Search speed: 3 Tilting option: N No. of ion ranges searched: 180

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	91*	22370554	1246	NBS54K	80	24	0	0	77	33	50	94
2.	71*	19780804	1269	NBS54K	64	51	1	0	86	30	29	63
3.	59*	16745941	1134	NBS54K	46	44	0	0	71	39	21	54
4.	45*	6638115	1274	NBS54K	57	59	2	0	68	40	17	34
5.	44*	1942423	1081	NBS54K	34	16	0	0	77	39	17	33
6.	39*	61142787	1215	NBS54K	51	47	2	0	74	36	14	26

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06754
Estimated Concentration: 198.80 ug/mL



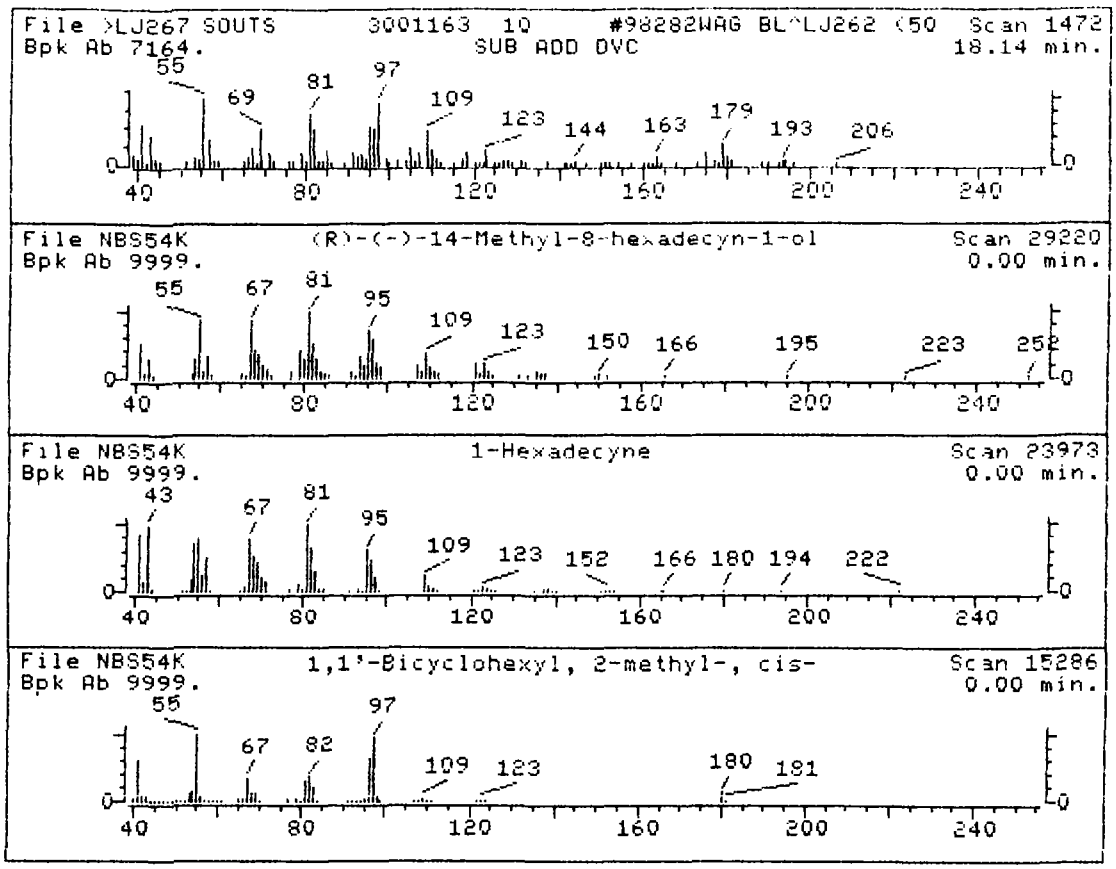
UNKNOWN
DE 10/14/98

1.	Aziridine, 1-propyl-	85	C5H11N
2.	1-Undecene, 5-methyl-	168	C12H24
3.	1,3,2-Dioxaborinane, 2,4-diethyl-5,6-dimethyl-	170	C9H19BO2
4.	Cyclobutane, 1,1-dimethyl-2-octyl-	196	C14H28
5.	Undecane, 5-methylene-	168	C12H24
6.	1-Pentene, 2,4-dimethyl-	98	C7H14

Sample file: >LJ267 Spectrum #: 1456
Search speed: 3 Tilting option: N No. of ion ranges searched: 174

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	60*	5536981	4021	NBS54K	38	49	2	0	73	14	30	19
2.	60*	74630389	1245	NBS54K	33	72	3	0	100	14	30	13
3.	60*	74744562	18887	NBS54K	27	71	2	0	69	14	30	14
4.	54*	62338301	1270	NBS54K	61	39	2	0	86	35	20	38
5.	40*	5698486	1240	NBS54K	41	44	1	0	100	35	16	23
6.	38*	2213323	1090	NBS54K	30	56	2	0	100	28	14	15

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06754
Estimated Concentration: 592.55 ug/mL



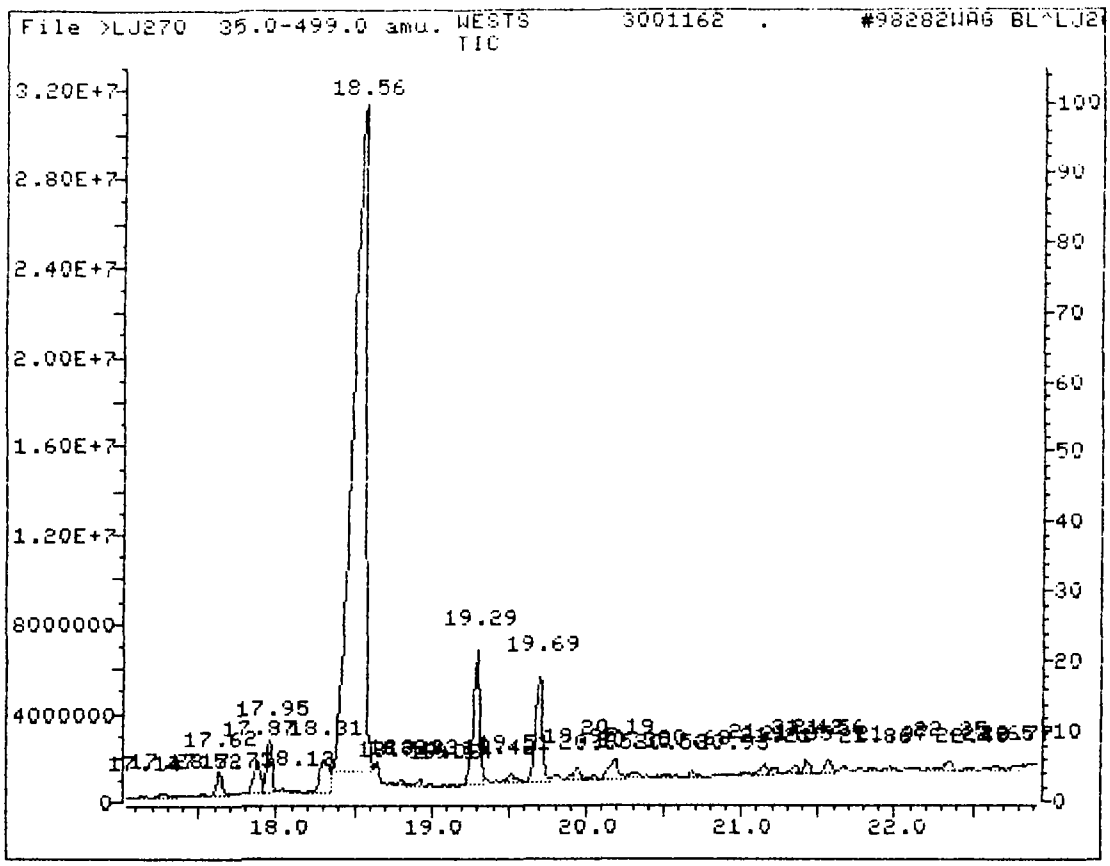
UNKNOWN
DE 10/14/98

1.	(R)-(-)-14-Methyl-8-hexadecyn-1-ol	252	C17H32O
2.	1-Hexadecyne	222	C16H30
3.	1,1'-Bicyclohexyl, 2-methyl-, cis-	180	C13H24
4.	1,13-Tetradecadiene	194	C14H26
5.	4-tert-Butyl-2,6,7-trioxa-1-phosphabicyclo[2.2.2]octane 1-oxide	206	C8H15O4P
6.	Bicyclo[4.1.0]heptane, 3-methyl-7-pentyl-	180	C13H24

Sample file: >LJ267 Spectrum #: 1472
Search speed: 3 Tilting option: N No. of ion ranges searched: 90

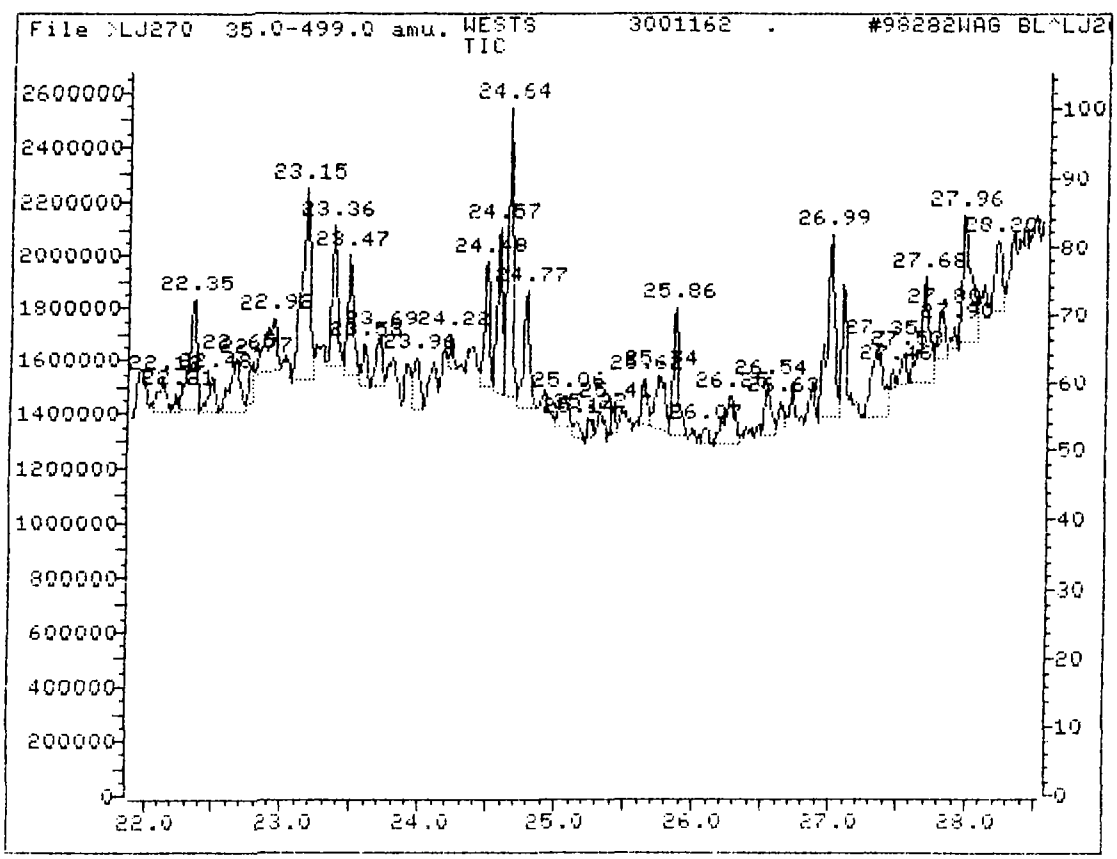
	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	36*	64566183	9514	NBS54K	60	112	3	0	77	45	12	27
2.	20*	629743	9505	NBS54K	32	114	3	0	77	53	5	13
3.	15*	50991087	9721	NBS54K	47	65	2	0	71	59	3	19
4.	15*	21964498	9490	NBS54K	30	98	3	0	90	59	3	13
5.	15*	61481194	9497	NBS54K	24	129	3	0	65	58	3	12
6.	12*	41977484	25997	NBS54K	48	82	1	0	52	62	2	27

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06794
Estimated Concentration: 6.06 ug/mL

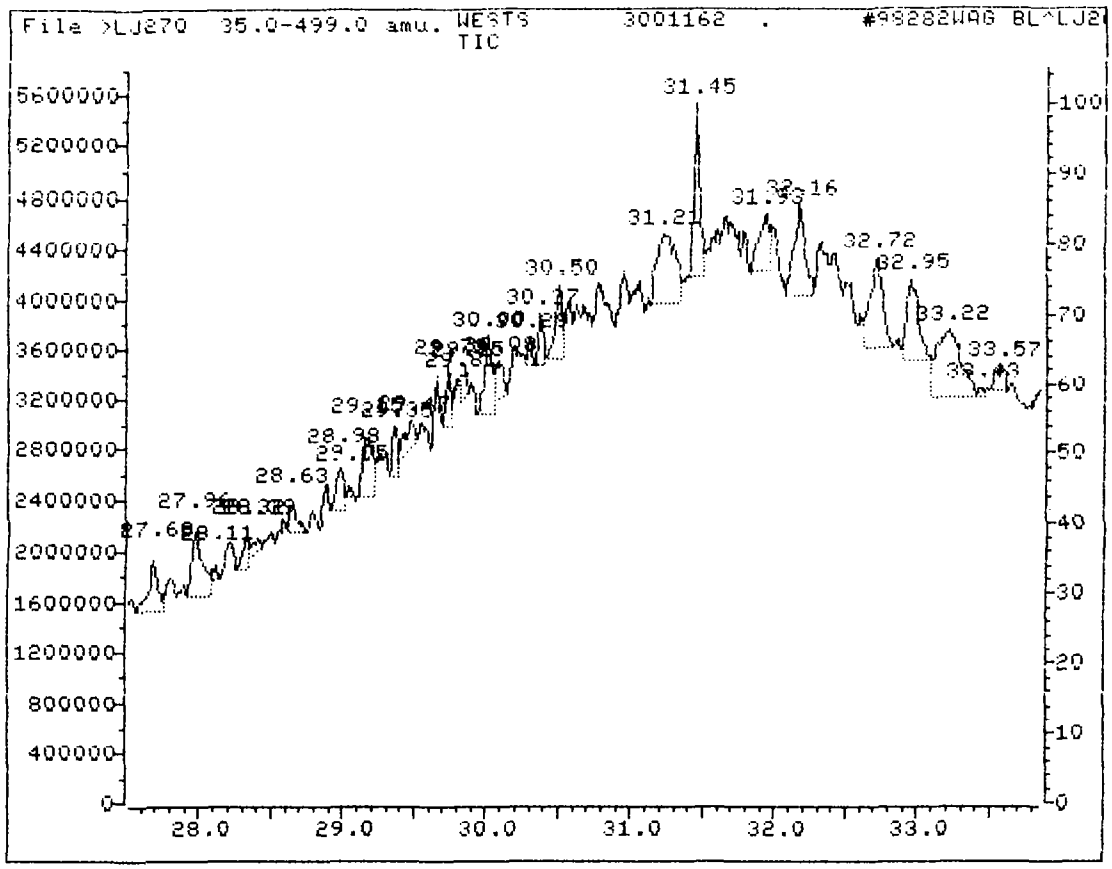


INSTRUMENT ID HP06754

ANALYSIS DATE/TIME 10/12/98 19:18

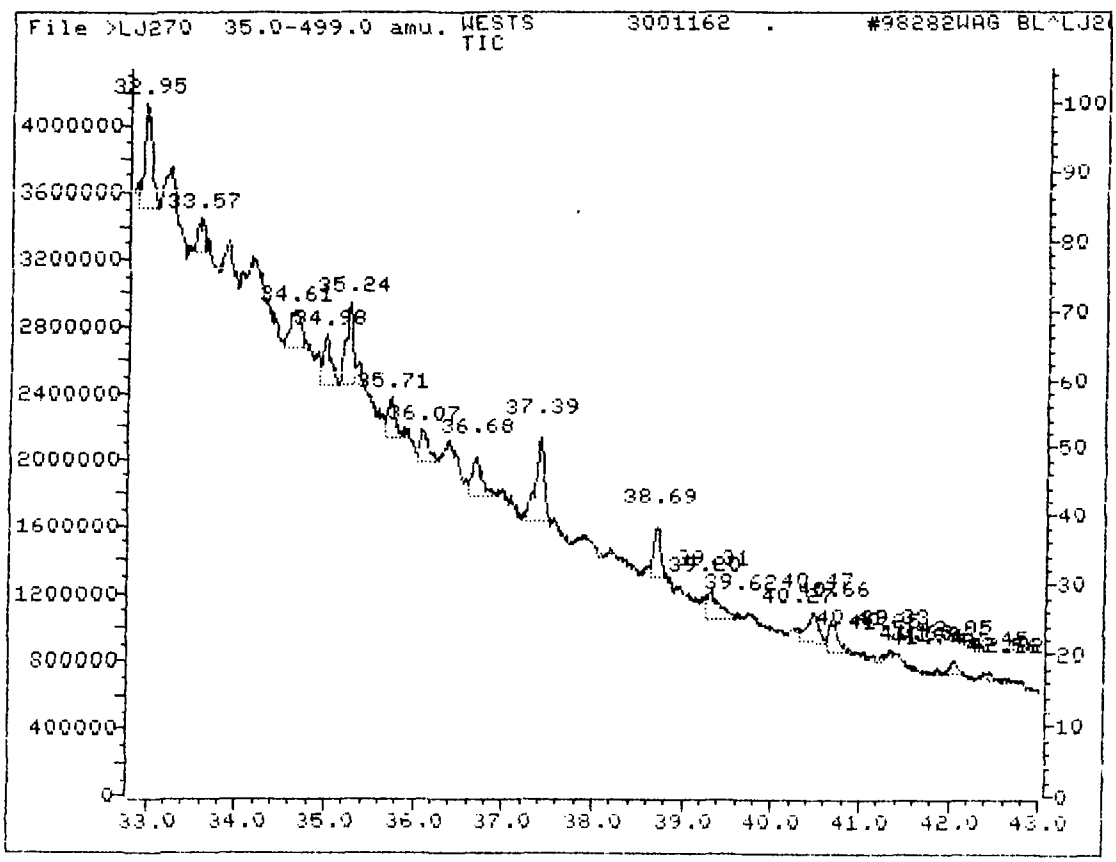


TJB
10/15/98

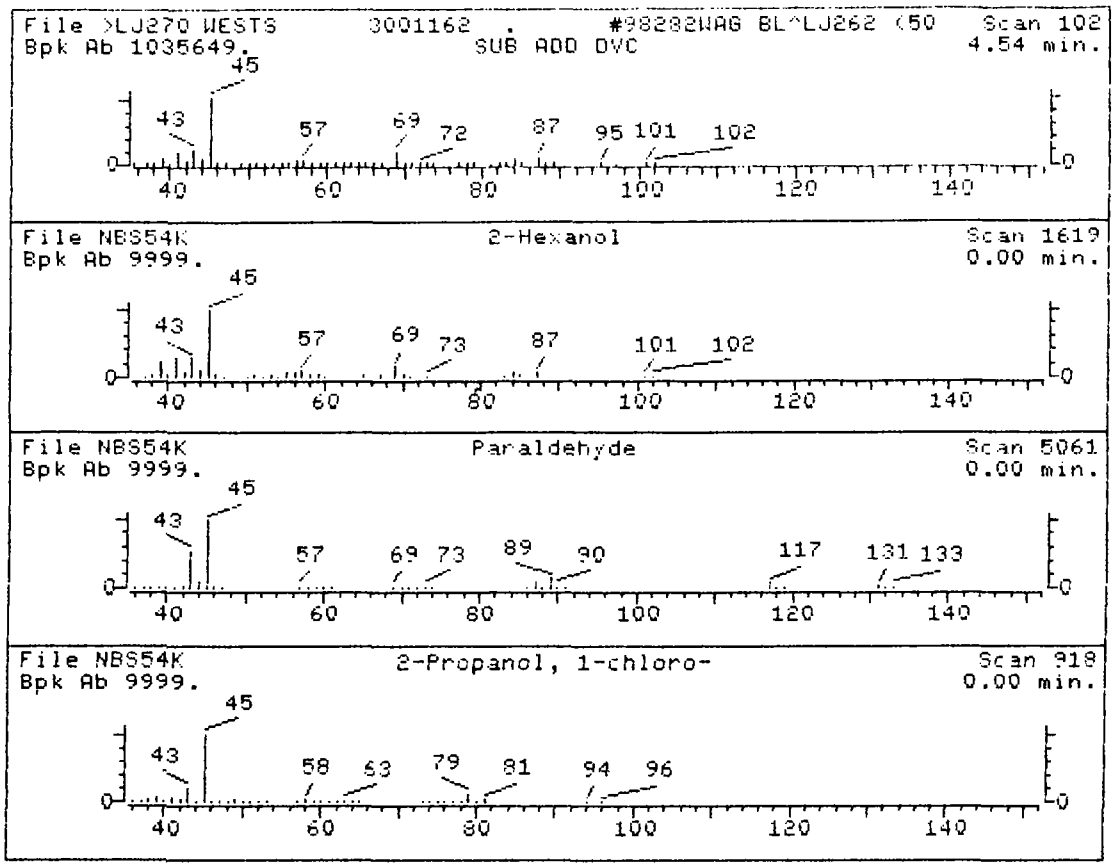


INSTRUMENT ID HP06754

ANALYSIS DATE/TIME 10/12/98 19:18



DT535
10/15/98



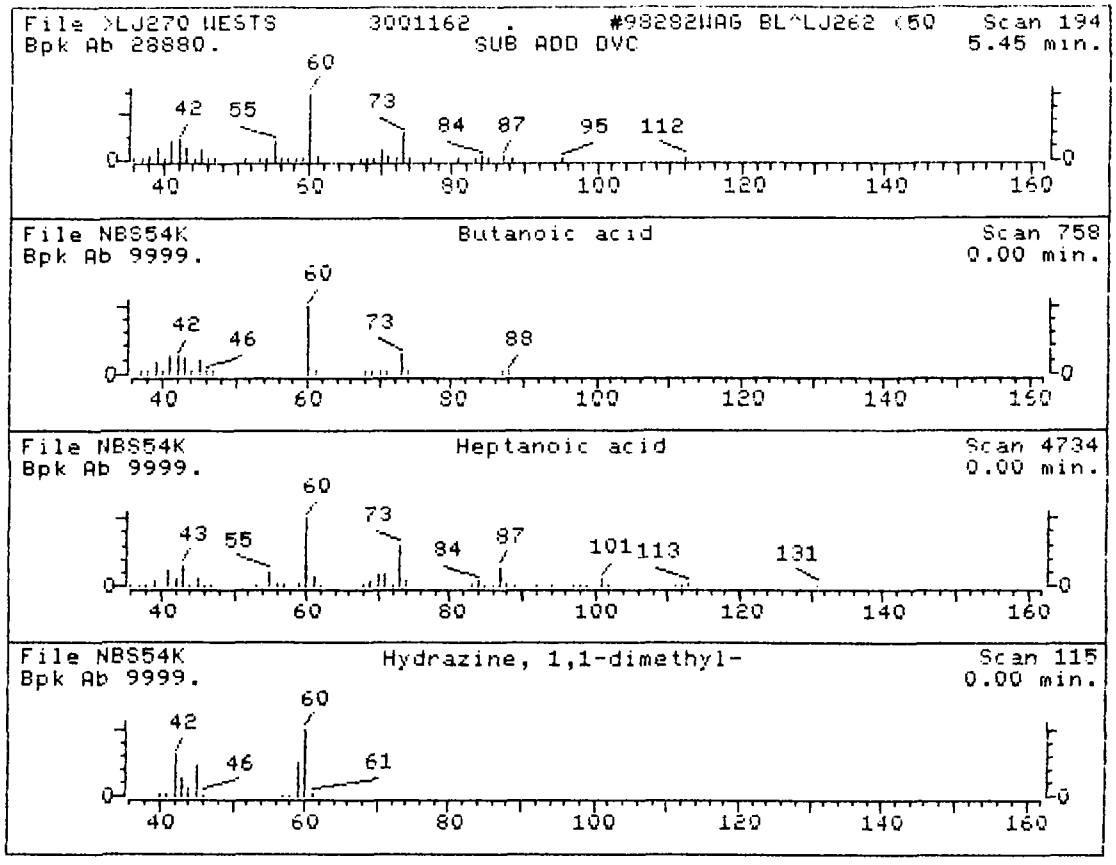
Unknown
TDT383
10/15/98

1. 2-Hexanol 102 C6H14O
2. Paraldehyde 132 C6H12O3
3. 2-Propanol, 1-chloro- 94 C3H7ClO
4. Butane, 1-bromo-4-methoxy- 166 C5H11BrO
5. 2,3-Butanediol 90 C4H10O2
6. Methane, chloromethoxy- 80 C2H5ClO

Sample file: >LJ270 Spectrum #: 102
Search speed: 3 Tilting option: N No. of ion ranges searched: 54

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	67*	626937	353	NBS54K	42	46	2	0	100	15	34	22
2.	60*	123637	8491	NBS54K	38	45	2	0	100	13	30	19
3.	60*	127004	352	NBS54K	28	61	2	0	100	15	30	14
4.	60	4457674	7775	NBS54K	43	34	2	0	99	15	30	14
5.	53*	513859	350	NBS54K	43	38	1	0	69	25	22	25
6.	52*	107302	449	NBS54K	21	72	2	0	100	18	20	13

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 395.92 ug/mL



Unknown Carboxylic Acid

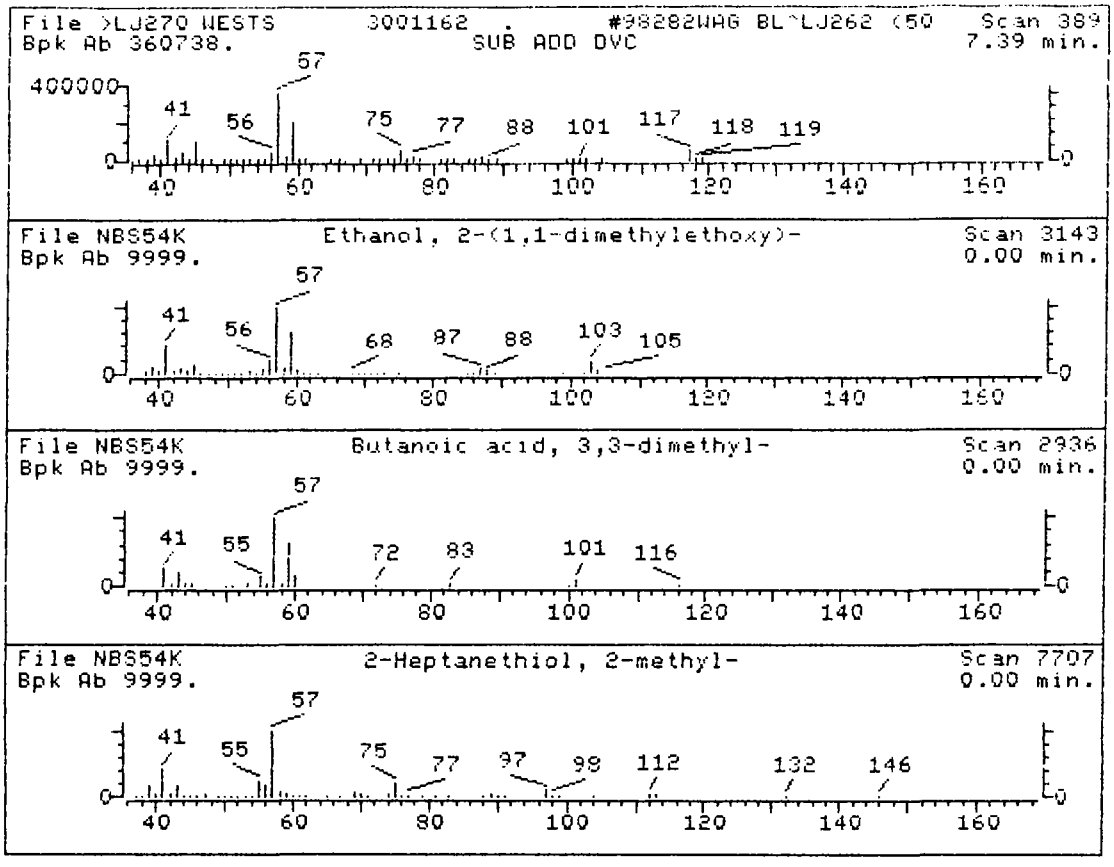
TJTSS
10/15/98

1. Butanoic acid 88 C4H8O2
2. Heptanoic acid 130 C7H14O2
3. Hydrazine, 1,1-dimethyl- 60 C2H8N2

Sample file: >LJ270 Spectrum #: 194
Search speed: 3 Tilting option: N No. of ion ranges searched: 44

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_1	R_IV
1.	66*	107926	2101	NBS54K	56	36	1	0	100	17	31	44
2.	52*	111148	2146	NBS54K	43	54	2	0	67	17	20	19
3.	42*	57147	2093	NBS54K	28	66	3	0	100	25	17	13

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 33.57 ug/mL



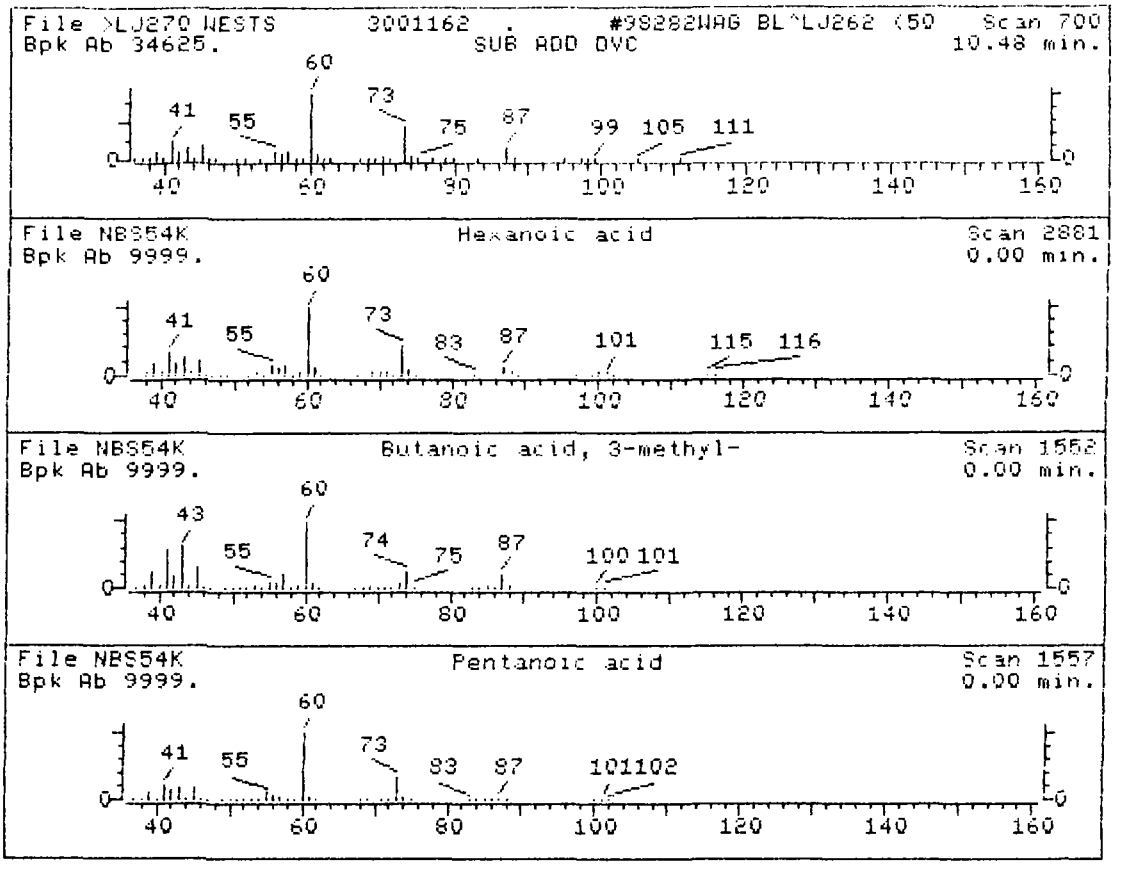
Unknown
DB33
10/12/98

1.	Ethanol, 2-(1,1-dimethylethoxy)-	118	C6H14O2
2.	Butanoic acid, 3,3-dimethyl-	116	C6H12O2
3.	2-Heptanethiol, 2-methyl-	146	C8H18S
4.	Butane, 1-(2-methoxyethoxy)-	132	C7H16O2
5.	Propane, 1-(1,1-dimethylethoxy)-2-methyl-	130	C8H18O
6.	Propanoic acid, 1-methylpropyl ester	130	C7H14O2

Sample file: >LJ270 Spectrum #: 389
Search speed: 3 Tilting option: N No. of ion ranges searched: 64

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	59	7580850	1903	NBS54K	64	28	1	0	74	21	27	30
2.	45*	1070833	1875	NBS54K	43	36	2	0	89	30	19	23
3.	41*	763202	5250	NBS54K	51	38	2	0	76	45	14	33
4.	37*	13343981	7684	NBS54K	28	67	2	0	81	27	14	14
5.	33	33021022	1922	NBS54K	47	39	2	0	100	31	12	16
6.	30*	591344	10781	NBS54K	38	41	1	0	68	45	12	21

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 124.13 ug/mL



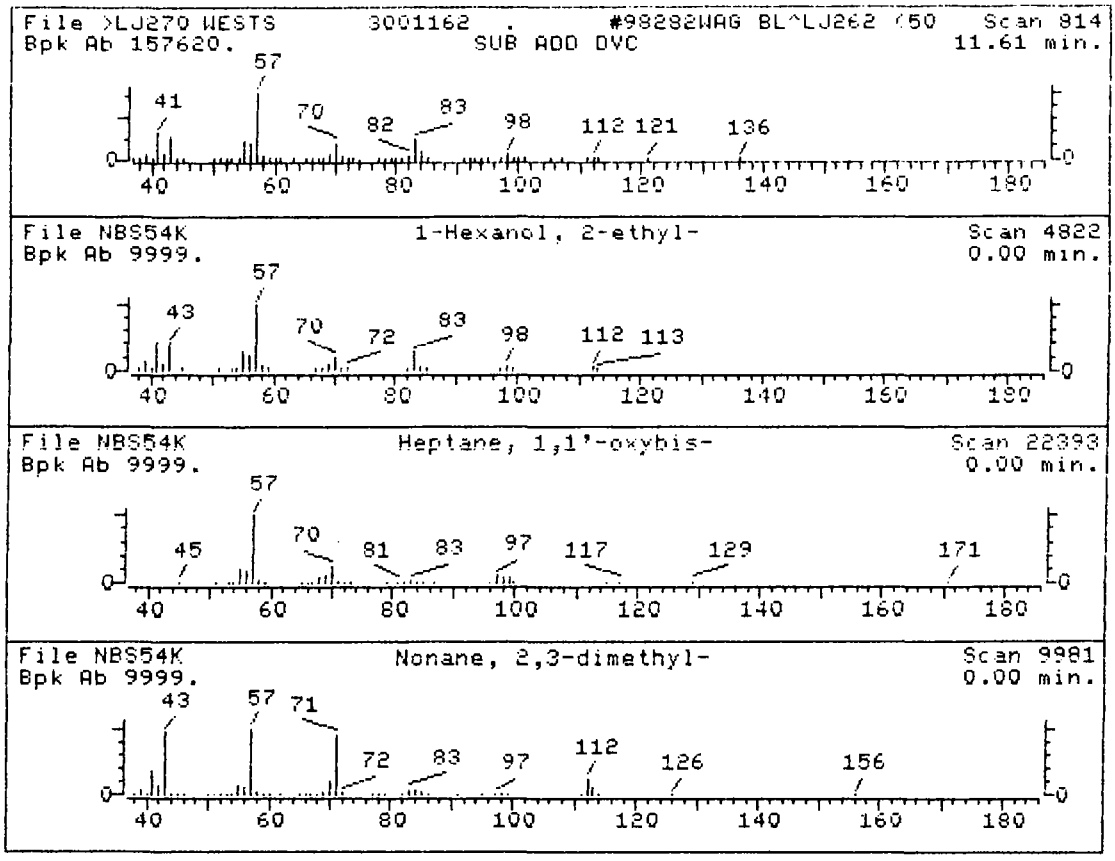
Unknown Carboxylic Acid
DJB
10/15/98

1.	Hexanoic acid	116	C6H12O2
2.	Butanoic acid, 3-methyl-	102	C5H10O2
3.	Pentanoic acid	102	C5H10O2
4.	Butanoic acid	88	C4H8O2
5.	Heptanoic acid	130	C7H14O2
6.	Octanoic acid	144	C8H16O2

Sample file: >LJ270 Spectrum #: 700
Search speed: 3 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IO
1.	76	142621	2127	NBS54K	61	34	1	0	86	10	45	27
2.	60	503742	2113	NBS54K	53	44	2	0	70	14	30	14
3.	52	109524	2114	NBS54K	37	51	0	0	100	20	20	19
4.	52*	107926	2101	NBS54K	31	61	2	0	100	18	20	15
5.	50*	111148	2146	NBS54K	46	51	2	0	67	21	22	22
6.	42*	124072	2166	NBS54K	44	60	3	0	77	23	17	13

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 26.24 ug/mL



Unknown Alkane

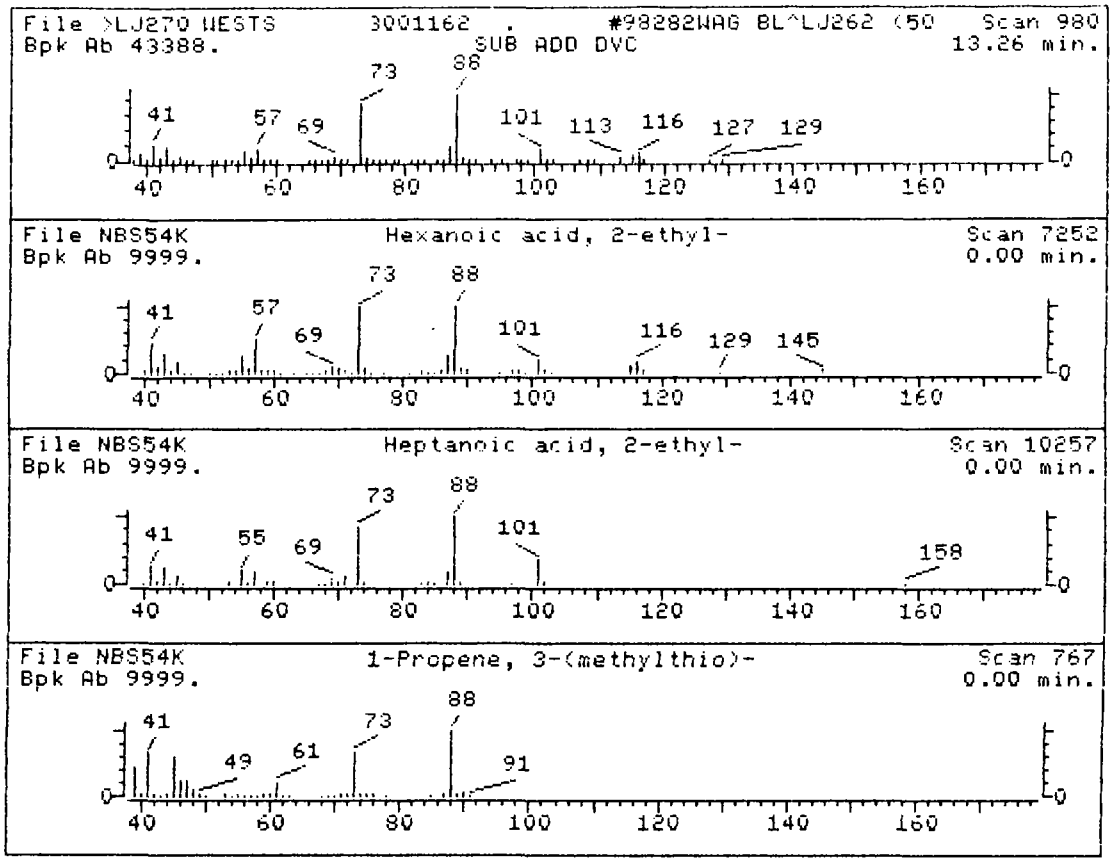
TD T387
10/5/98

1. 1-Hexanol, 2-ethyl- 130 C8H18O
2. Heptane, 1,1'-oxybis- 214 C14H30O
3. Nonane, 2,3-dimethyl- 156 C11H24
4. Undecane, 4,6-dimethyl- 184 C13H28
5. Octane, 2,5,6-trimethyl- 156 C11H24
6. Octane, 3,6-dimethyl- 142 C10H22

Sample file: >LJ270 Spectrum #: 814
Search speed: 3 Tilting option: N No. of ion ranges searched: 148

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	79	104767	4165	NBS54K	74	20	1	0	90	7	48	36
2.	46	629641	4413	NBS54K	50	40	2	0	94	24	17	17
3.	41*	2884062	12745	NBS54K	24	77	3	0	100	23	17	12
4.	37*	17312822	4594	NBS54K	31	67	2	0	100	30	14	14
5.	34*	62016142	7015	NBS54K	34	53	2	0	76	33	12	17
6.	34*	15869940	12961	NBS54K	35	54	2	0	68	33	12	17

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 55.47 ug/mL



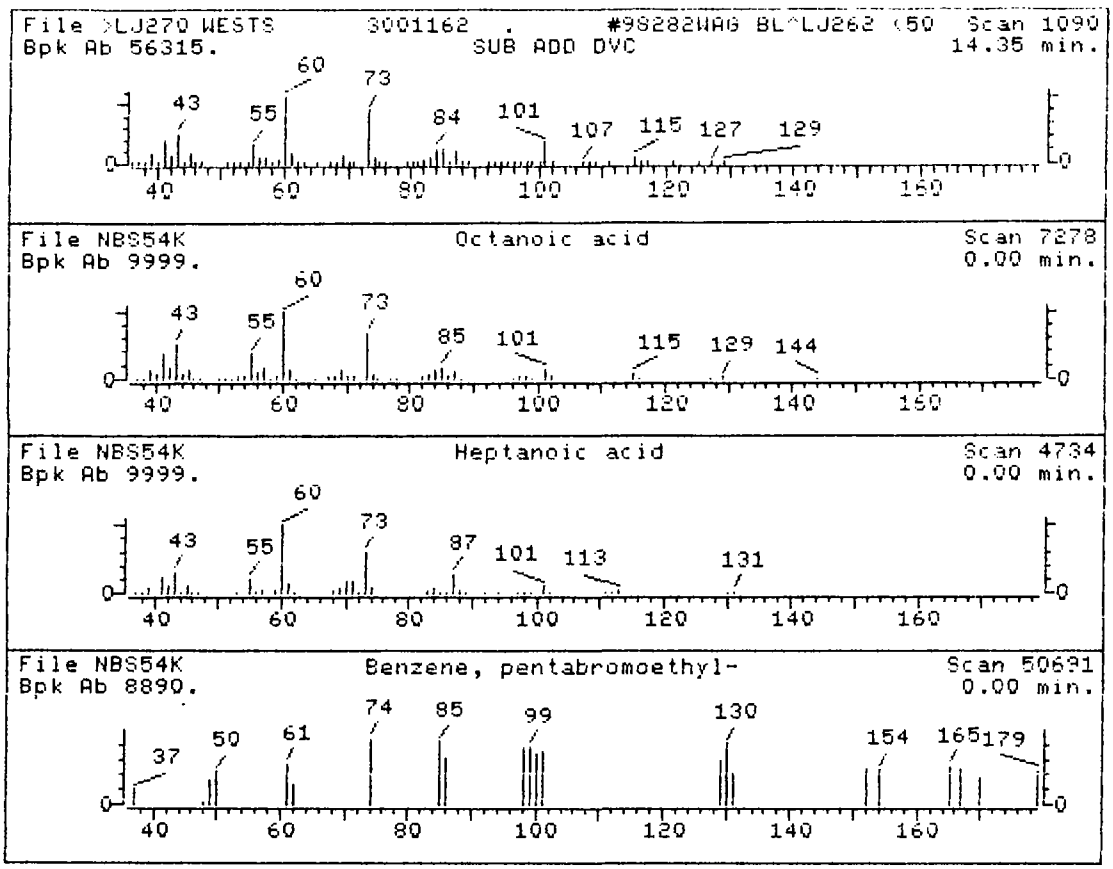
Unknown TJT383
10/15/98

1.	Hexanoic acid, 2-ethyl-	144	C8H16O2
2.	Heptanoic acid, 2-ethyl-	158	C9H18O2
3.	1-Propene, 3-(methylthio)-	88	C4H8S
4.	Hydrazine, 1,1-diethyl-	88	C4H12N2
5.	1,3-Dioxolane, 2-(1,1-dimethylethyl)-	130	C7H14O2
6.	Methyl 2,3,4-tri-O-methyl-6-deoxy-.alpha.-D-mannopyranoside	220	C10H20O5

Sample file: >LJ270 Spectrum #: 980
Search speed: 3 Tilting option: N No. of ion ranges searched: 47

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CUN	C_I	R_IV
1.	88*	149575	8114	NBS54K	70	29	2	0	76	5	65	50
2.	74*	3274291	8140	NBS54K	57	37	2	0	98	13	39	40
3.	52*	10152768	8026	NBS54K	22	97	3	0	100	20	20	12
4.	27*	616400	8039	NBS54K	23	77	2	0	85	39	10	13
5.	26*	2568298	5059	NBS54K	43	34	0	0	68	60	7	59
6.	25	72983165	8266	NBS54K	51	54	1	0	79	50	7	13

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 21.27 ug/mL



Unknown Carboxylic Acid

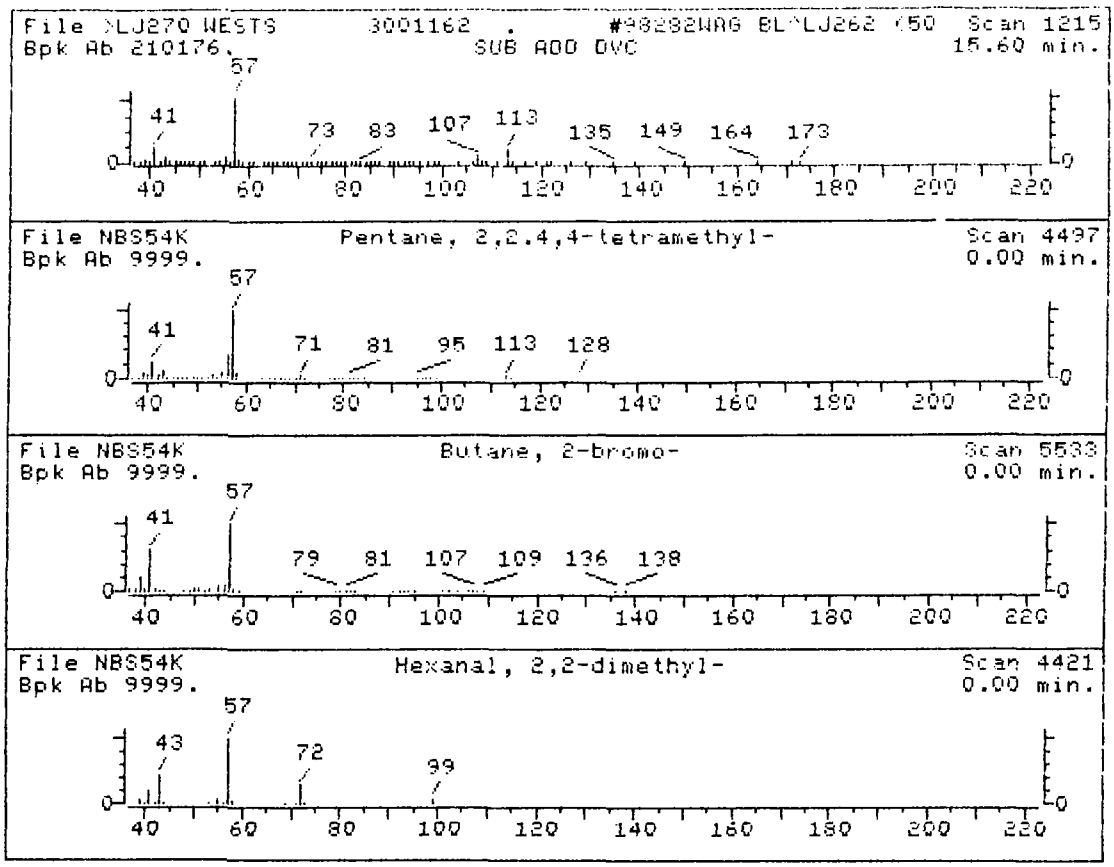
DTS83
10/15/98

1.	Octanoic acid	144 C8H16O2
2.	Heptanoic acid	130 C7H14O2
3.	Benzene, pentabromoethyl-	496 C8H5Br5
4.	Hexanoic acid, 2-ethyl-	144 C8H16O2
5.	Hexanoic acid	116 C6H12O2
6.	Pentanoic acid	102 C5H10O2

Sample file: >LJ270 Spectrum #: 1090
Search speed: 3 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	67*	124072	2166	NBS54K	58	46	0	0	73	38	28	71
2.	28*	111148	2146	NBS54K	31	66	2	0	75	38	10	14
3.	25*	50691	2174	NBS54K	26	74	2	0	79	49	7	14
4.	20*	149575	8114	NBS54K	30	69	3	0	79	54	5	13
5.	18	142621	2127	NBS54K	45	50	0	0	78	57	4	26
6.	15	109524	2114	NBS54K	27	61	0	0	99	59	3	14

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 30.65 ug/mL



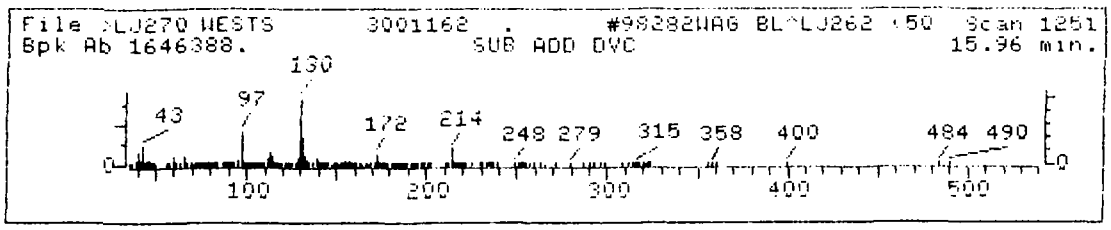
Unknown Alkane
TJB03
10/15/98

1. Pentane, 2,2,4,4-tetramethyl-	128	C9H20
2. Butane, 2-bromo-	136	C4H9Br
3. Hexanal, 2,2-dimethyl-	128	C8H16O
4. Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26
5. Butane, 2-iodo-	184	C4H9I
6. t-Butyl n-hexyl disulphide	206	C10H22S2

Sample file: >LJ270 Spectrum #: 1215
Search speed: 3 Tilting option: N No. of ion ranges searched: 107

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	32	1070877	1314	NBS54K	43	26	1	0	100	35	12	15
2.	31*	78762	1324	NBS54K	24	55	2	0	100	35	12	14
3.	31	996123	4778	NBS54K	49	26	2	0	100	37	10	17
4.	29	13475826	1342	NBS54K	36	39	2	0	100	35	12	12
5.	29	513484	26603	NBS54K	42	46	1	0	69	37	10	15
6.	29	64580592	1353	NBS54K	42	48	2	0	100	35	12	12

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 29.53 ug/mL

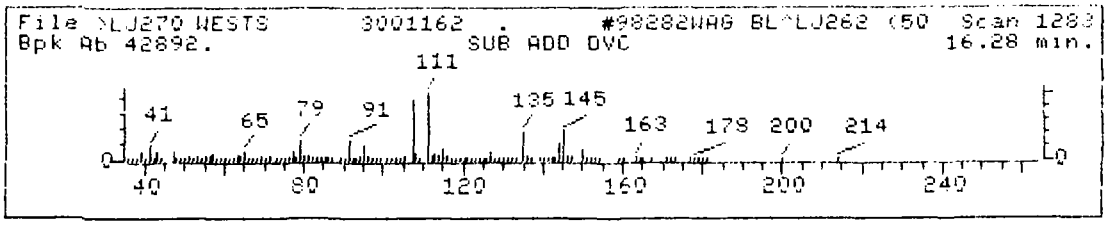


Unknown
TJB
10/15/98

Sample file: >LJ270 Spectrum #: 1251

No data base entries were retrieved.

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06794
Estimated Concentration: 571.06 ug/mL

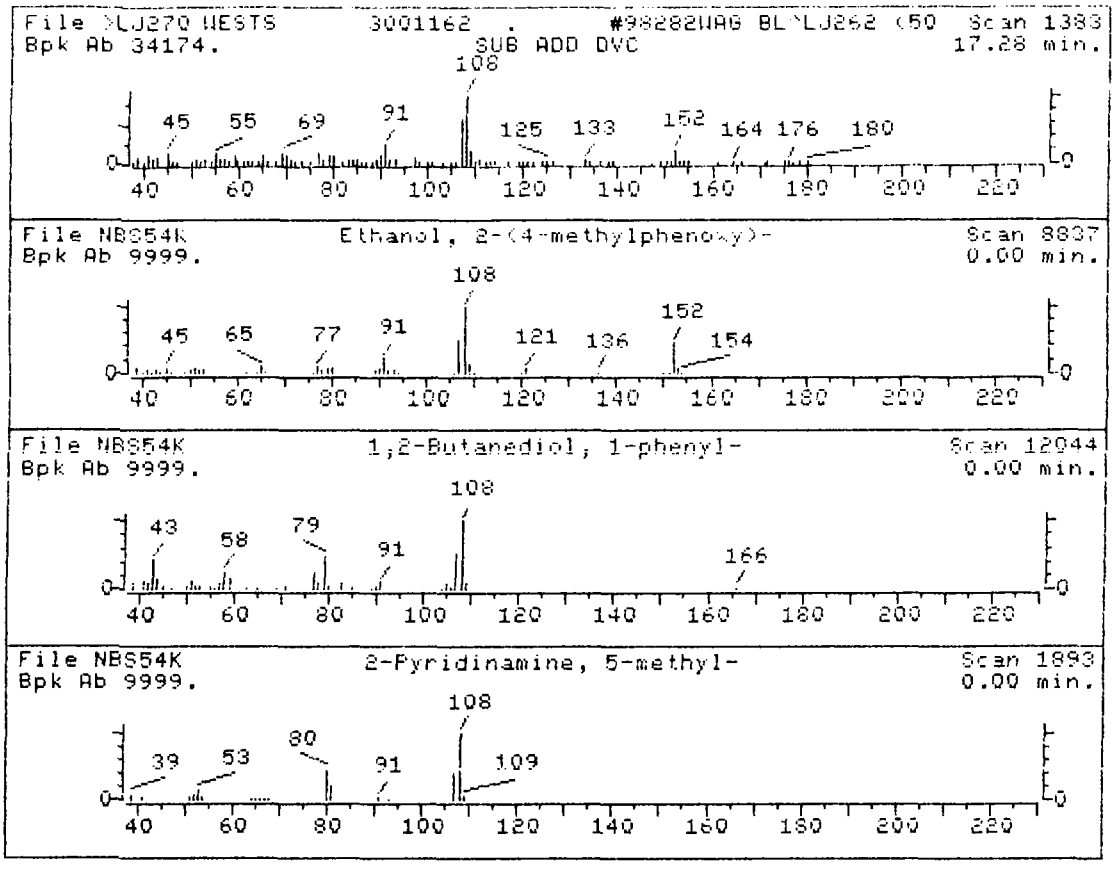


UNKNOWN
TJB55
10/15/91

Sample file: >LJ270 Spectrum #: 1283

No data base entries were retrieved.

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 26.97 ug/mL



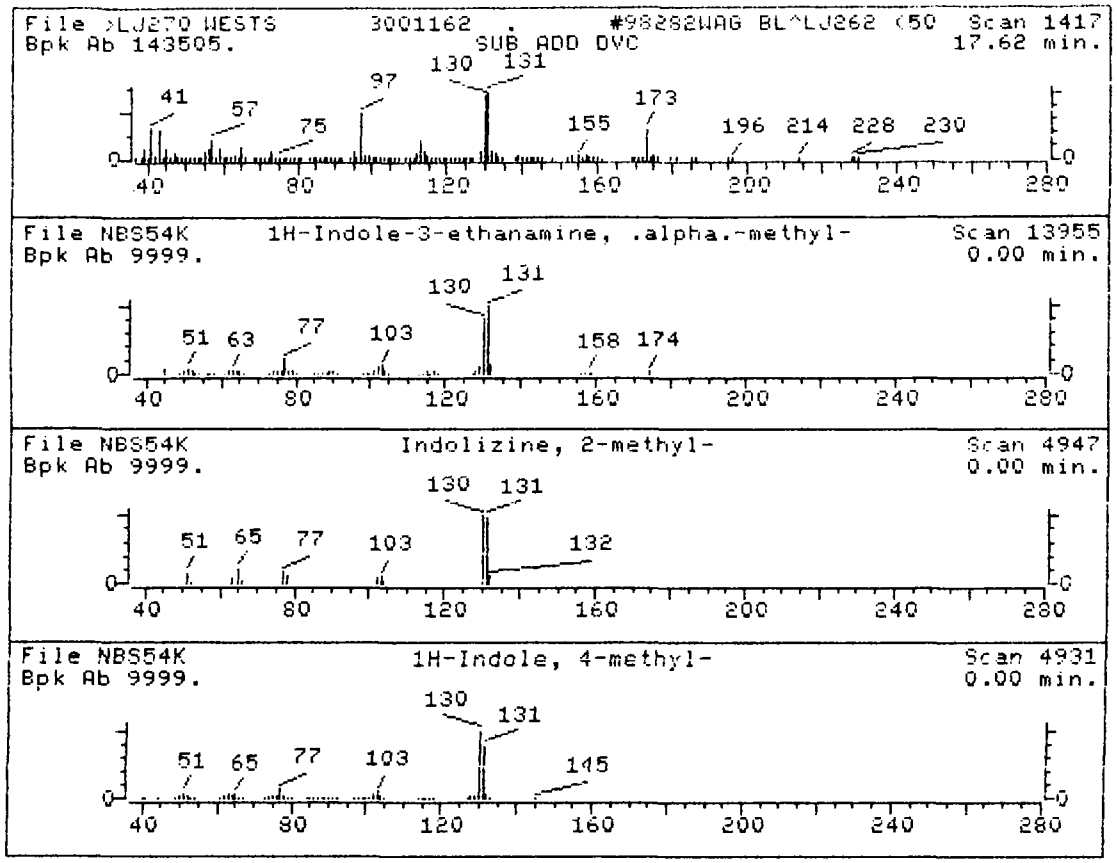
Unknown
C15H23
m/z 178

1. Ethanol, 2-(4-methylphenoxy)- 152 C9H12O2
2. 1,2-Butanediol, 1-phenyl- 166 C10H14O2
3. 2-Pyridinamine, 5-methyl- 108 C6H8N2
4. Silane, phenyl- 108 C6H8Si
5. Propanoic acid, 2-methyl-, 4-methylphenyl ester 178 C11H14O2
6. Phenol, 3-butyl- 150 C10H14O

Sample file: >LJ270 Spectrum #: 1383
Search speed: 3 Tilting option: N No. of ion ranges searched: 55

	Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	C_I	R_IV
1.	52	15149107	20909	NBS54K	58	38	2	0	100	17	20	19
2.	42*	22607132	12008	NBS54K	34	66	3	0	100	24	17	13
3.	36*	1603414	11920	NBS54K	22	67	2	0	100	28	14	13
4.	32*	694531	11929	NBS54K	38	40	3	0	68	31	12	15
5.	29	103935	12022	NBS54K	46	49	2	0	100	35	12	12
6.	29	4074435	11984	NBS54K	52	40	2	0	69	42	8	17

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06/54
Estimated Concentration: 26.35 ug/mL



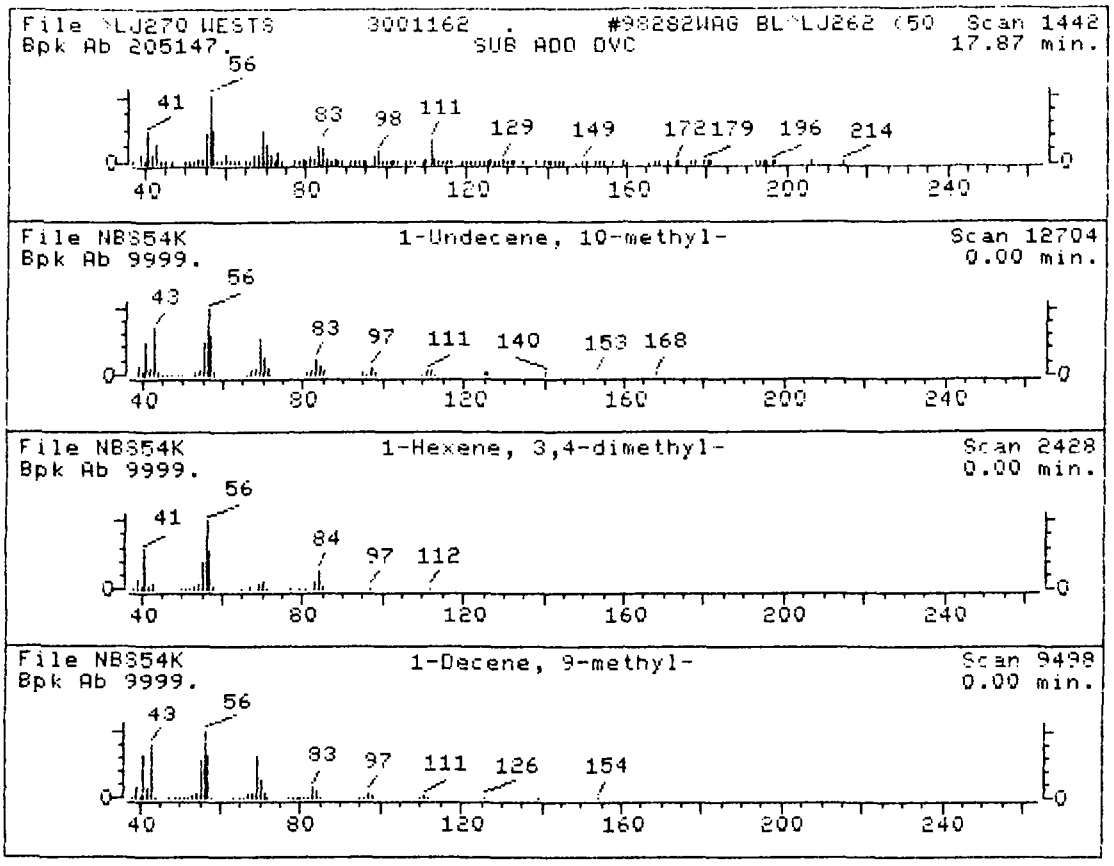
Unknown
DTBS
10/15/98

1.	1H-Indole-3-ethanamine, .alpha.-methyl-	174	C11H14N2
2.	Indolizine, 2-methyl-	131	C9H9N
3.	1H-Indole, 4-methyl-	131	C9H9N
4.	Indolizine, 1-methyl-	131	C9H9N
5.	Indolizine, 6-methyl-	131	C9H9N
6.	1H-Indole, 6-methyl-	131	C9H9N

Sample file: >LJ270 Spectrum #: 1417
Search speed: 3 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	41*	299263	16449	NBS54K	58	42	2	0	100	41	14	35
2.	32*	768183	16393	NBS54K	43	43	2	0	91	42	12	23
3.	31*	16096325	16384	NBS54K	40	54	2	0	95	42	8	19
4.	29*	767613	16390	NBS54K	34	46	2	0	95	42	8	17
5.	27*	1761111	16386	NBS54K	31	51	2	0	100	42	8	15
6.	27*	3420028	16389	NBS54K	36	61	2	0	95	42	8	15

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06/54
Estimated Concentration: 77.79 ug/mL



Unknown Cyclo Alkane

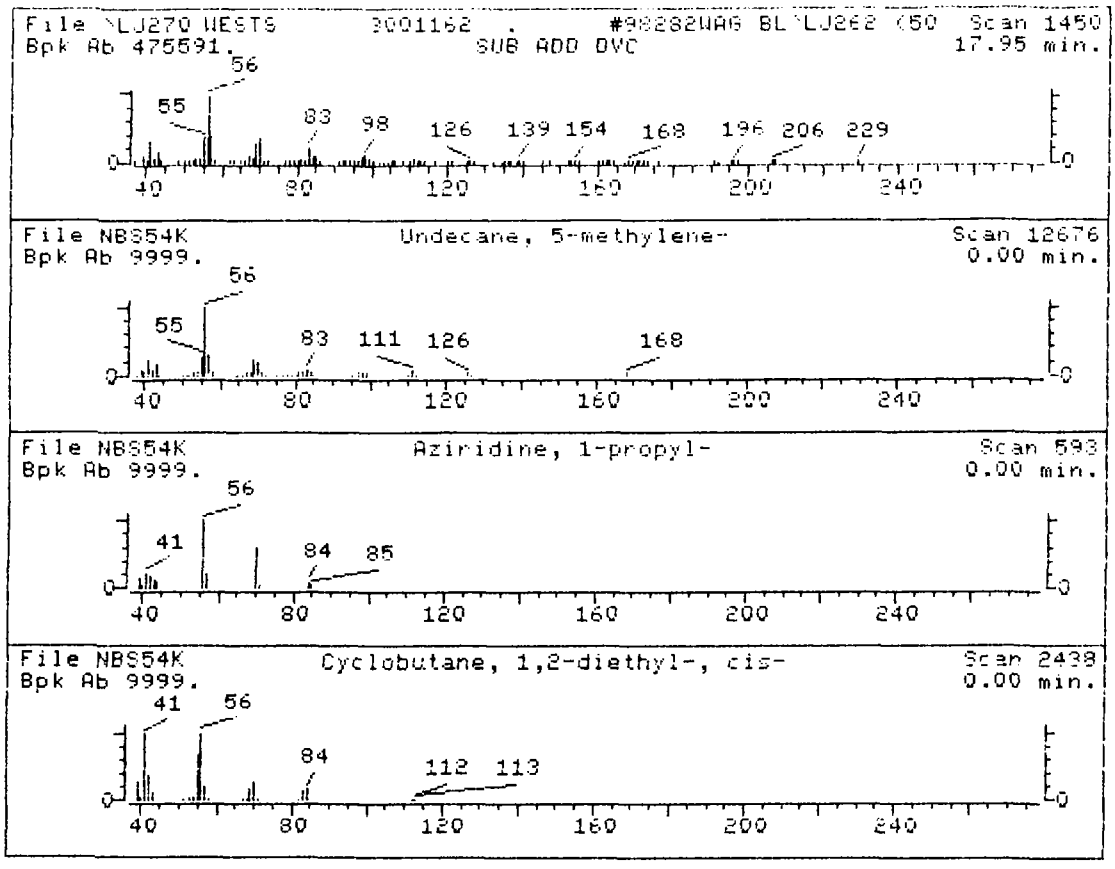
TJT 355
10/15/98

1.	1-Undecene, 10-methyl-	168	C12H24
2.	1-Hexene, 3,4-dimethyl-	112	C8H16
3.	1-Decene, 9-methyl-	154	C11H22
4.	Tridecane, 7-methylene-	196	C14H28
5.	Cyclobutane, 1,2-diethyl-	112	C8H16
6.	1-Octene, 7-methyl-	126	C9H18

Sample file: >LJ270 Spectrum #: 1442
Search speed: 3 Tilting option: N No. of ion ranges searched: 187

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	92*	22370554	1246	NBS54K	80	24	0	0	78	29	57	94
2.	65*	16745941	1134	NBS54K	46	44	0	0	78	35	24	54
3.	53*	61142787	1215	NBS54K	53	45	1	0	73	35	20	37
4.	50*	19780804	1269	NBS54K	51	64	1	0	78	35	20	34
5.	42*	61141831	1128	NBS54K	36	63	1	0	67	26	14	19
6.	41*	13151069	1155	NBS54K	45	45	2	0	86	33	16	24

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 103.64 ug/mL



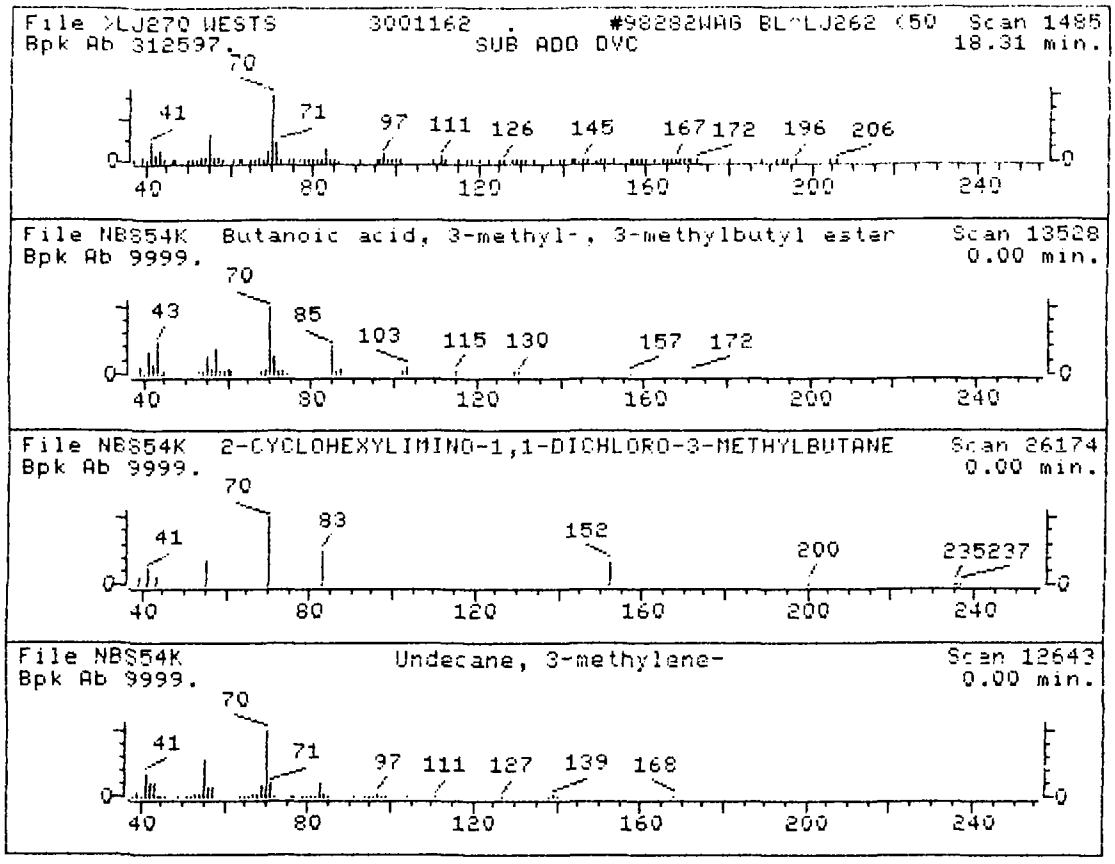
Unknown Cyclo Alkane
[illegible]
10/15/98

1. Undecane, 5-methylene-	168	C12H24
2. Aziridine, 1-propyl-	85	C5H11N
3. Cyclobutane, 1,2-diethyl-, cis-	112	C8H16
4. Cyclobutane, 1,1-dimethyl-2-octyl-	196	C14H28
5. Tridecane, 7-methylene-	196	C14H28
6. 1-Pentene, 2,4-dimethyl-	98	C7H14

Sample file: >LJ270 Spectrum #: 1450
Search speed: 3 Tilting option: N No. of ion ranges searched: 180

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	65*	5698486	1240	NBS54K	41	44	0	0	96	35	24	50
2.	60*	5536981	4021	NBS54K	30	57	2	0	67	14	30	15
3.	60*	61141502	1135	NBS54K	24	72	3	0	100	14	30	12
4.	49*	62338301	1270	NBS54K	56	44	2	0	86	35	20	33
5.	44*	19780804	1269	NBS54K	52	63	2	0	69	35	16	27
6.	38*	2213323	1090	NBS54K	30	56	2	0	100	28	14	15

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 103.59 ug/mL



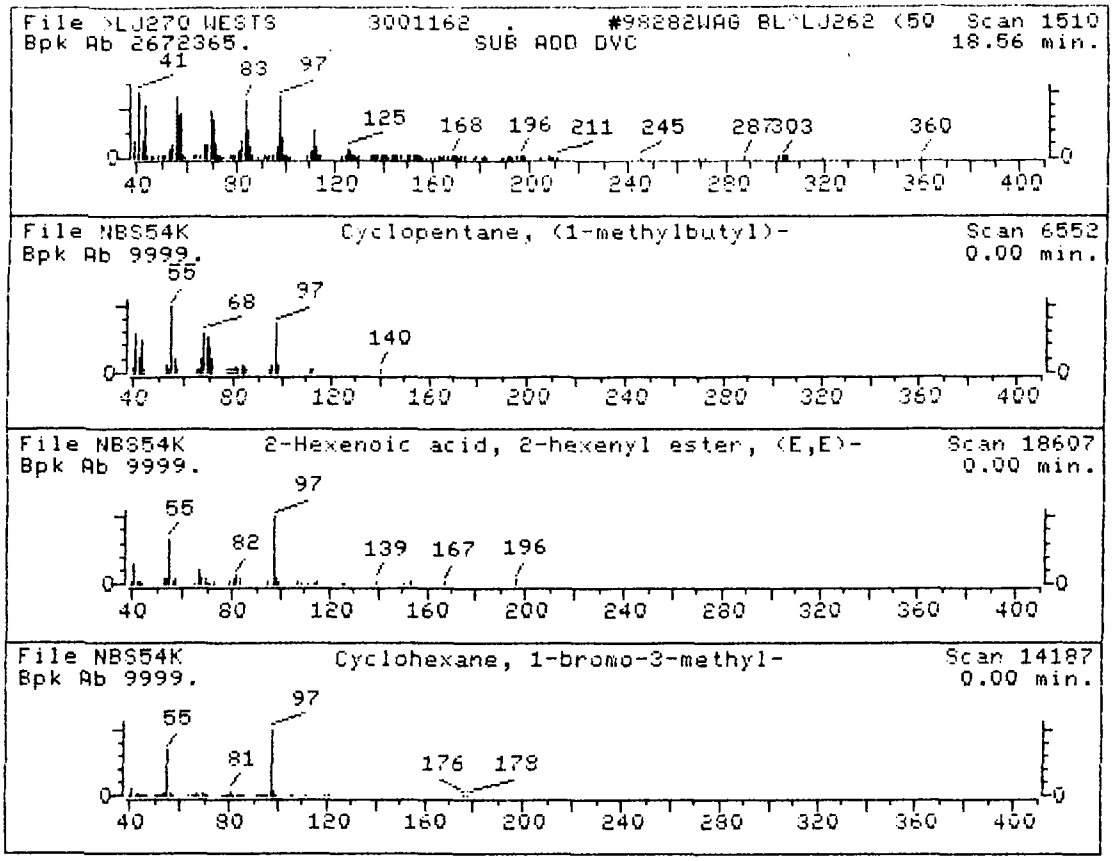
Unknown
TDB83
10/15/98

1.	Butanoic acid, 3-methyl-, 3-methylbutyl ester	172	C10H20O2
2.	2-CYCLOHEXYLIMINO-1,1-DICHLORO-3-METHYLBUTANE	235	C11H19Cl2N
3.	Undecane, 3-methylene-	168	C12H24
4.	Aziridine, 2,3-dimethyl-1-(phenylmethyl)-, trans-	161	C11H15N
5.	N,N'-Diethylidene-1,1-diaminoethane	112	C6H12N2
6.	Cyclobutanone, 2,2,3,4-tetramethyl-	126	C8H14O

Sample file: >LJ270 Spectrum #: 1485
Search speed: 3 Tilting option: N No. of ion ranges searched: 53

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	52*	659701	4359	NBS54K	24	73	2	0	76	19	20	14
2.	45*	26174	4419	NBS54K	32	33	2	0	100	21	17	16
3.	43*	71138642	4316	NBS54K	43	52	3	0	71	21	17	14
4.	43*	24432528	4285	NBS54K	27	50	2	0	100	21	17	14
5.	42*	623756	4070	NBS54K	20	50	2	0	100	21	17	13
6.	41	1193346	4134	NBS54K	35	36	2	0	80	21	17	12

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 178.41 ug/mL



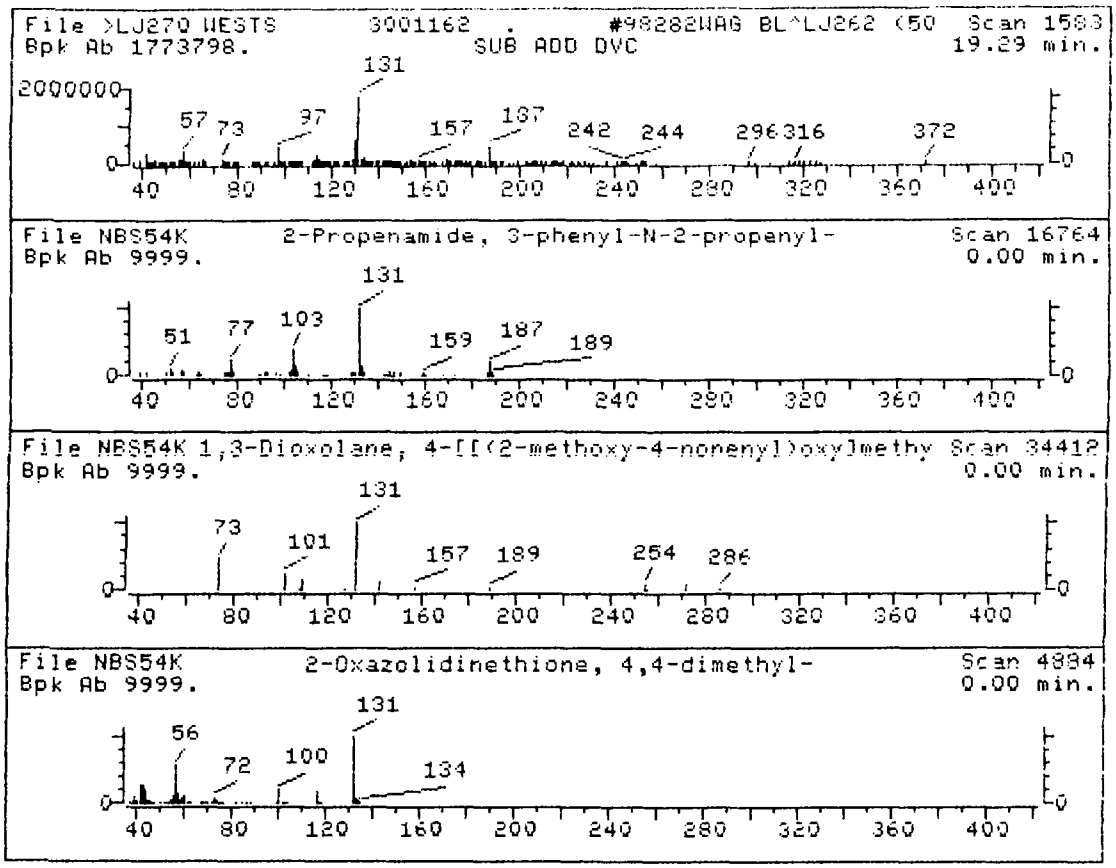
Unknown Cyclo Alkene.
TJ1533
10/15/98

1.	Cyclopentane, (1-methylbutyl)-	140 C10H20
2.	2-Hexenoic acid, 2-hexenyl ester, (E,E)-	196 C12H20O2
3.	Cyclohexane, 1-bromo-3-methyl-	176 C7H13Br
4.	Cyclohexane, 1-bromo-4-methyl-	176 C7H13Br
5.	Cyclohexane, 1,3-dimethyl-, cis-	112 C8H16
6.	1-Heptadecene	238 C17H34

Sample file: >LJ270 Spectrum #: 1510
Search speed: 3 Tilting option: N No. of ion ranges searched: 227

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	73*	4737433	9638	NBS54K	63	45	1	0	93	21	32	60
2.	68*	54845282	9743	NBS54K	61	45	1	0	66	21	30	57
3.	64*	13905481	9709	NBS54K	37	44	0	0	92	21	28	42
4.	59*	6294402	9712	NBS54K	33	49	0	0	92	21	27	30
5.	59*	638040	9573	NBS54K	36	58	0	0	66	21	27	35
6.	55	6765395	9780	NBS54K	108	44	3	0	100	21	22	27

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 4603.31 ug/mL



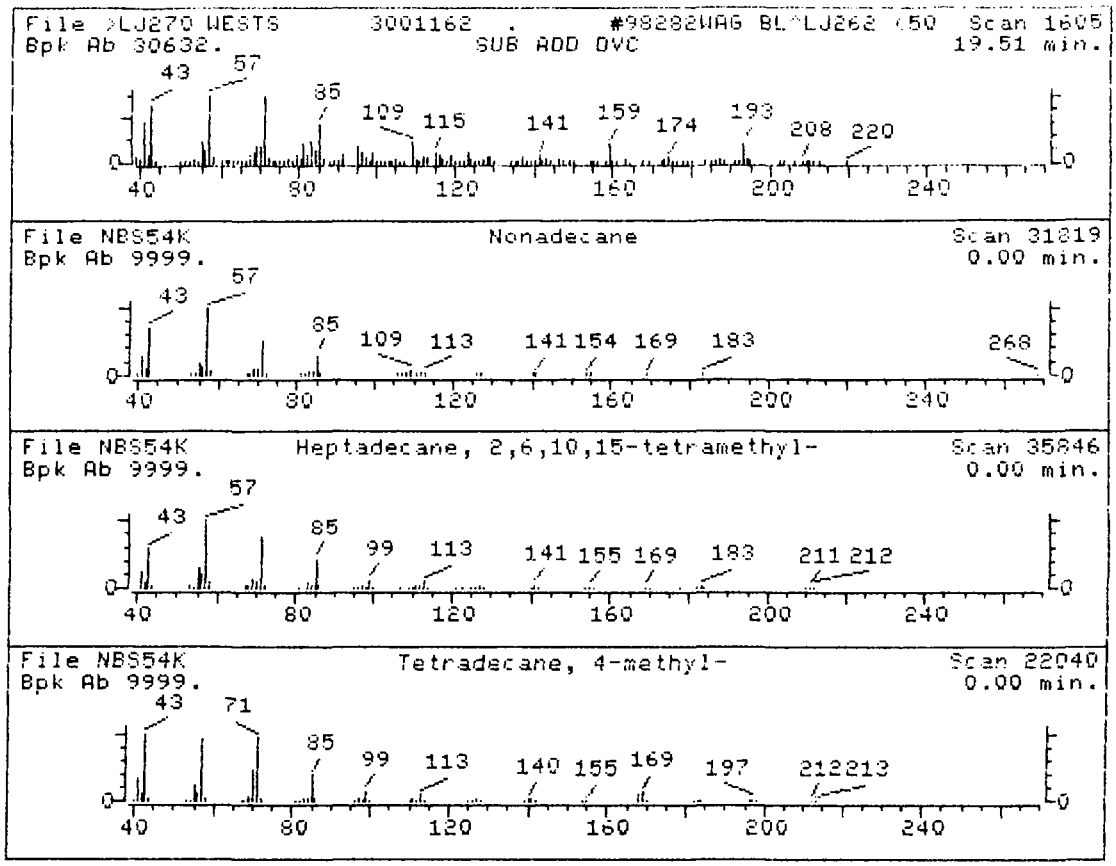
Unknown
TJ1583
10/15/98

1. 2-Propenamide, 3-phenyl-N-2-propenyl- 187 C12H13NO
2. 1,3-Dioxolane, 4-[[(2-methoxy-4-nonenyl)oxy]methyl]- 2,2-dimethyl- 286 C16H30O4
3. 2-Oxazolidinethione, 4,4-dimethyl- 131 C5H9NOS
4. 1,3-Dioxolane, 4-[[(2-methoxy-4-heptenyl)oxy]methyl] -2,2-dimethyl- 258 C14H26O4

Sample file: >LJ270 Spectrum #: 1583
Search speed: 3 Tilting option: N No. of ion ranges searched: 253

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	52*	41041343	16631	NBS54K	31	77	3	0	100	16	20	13
2.	30*	56256372	16684	NBS54K	23	58	2	0	100	33	12	13
3.	30*	54013557	16587	NBS54K	32	74	3	0	100	33	12	13
4.	29*	56256361	16675	NBS54K	24	63	3	0	100	33	12	12

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 450.85 ug/mL



Unknown Alkane.

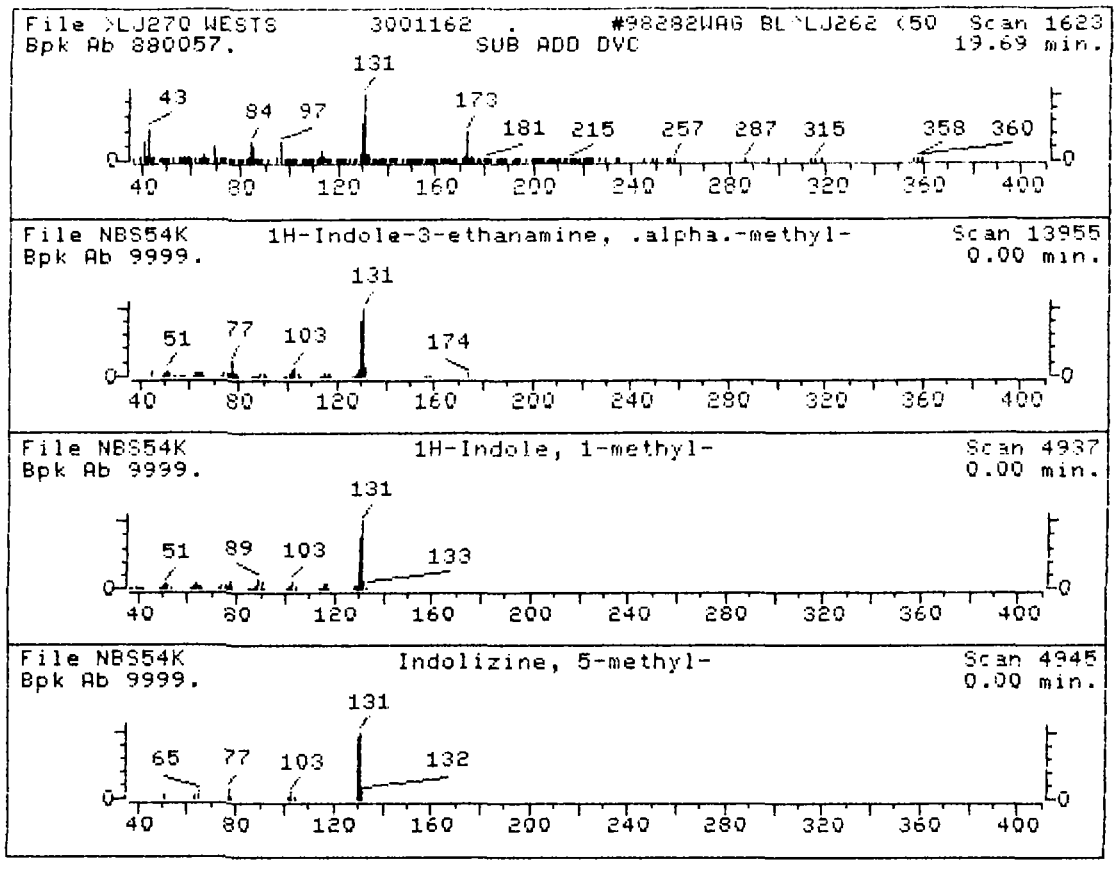
TJ BBB
10/15/98

1.	Nonadecane	268 C19H40
2.	Heptadecane, 2,6,10,15-tetramethyl-	296 C21H44
3.	Tetradecane, 4-methyl-	212 C15H32
4.	Tetradecane	198 C14H30
5.	3-Octen-2-ol, 2-methyl-, (Z)-	142 C9H18O
6.	Dodecane, 1-iodo-	296 C12H25I

Sample file: >LJ270 Spectrum #: 1605
Search speed: 3 Tilting option: N No. of ion ranges searched: 111

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	47*	629925	7205	NBS54K	59	58	2	0	156	38	17	36
2.	42	54833486	7219	NBS54K	80	55	1	0	98	37	17	31
3.	35*	25117242	7155	NBS54K	69	60	3	0	88	50	11	35
4.	33*	629594	7140	NBS54K	48	57	2	0	158	38	10	19
5.	33*	18521078	15827	NBS54K	48	58	2	0	93	40	10	19
6.	33	4292197	7217	NBS54K	77	52	2	0	100	38	10	19

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06/54
Estimated Concentration: 33.06 ug/mL



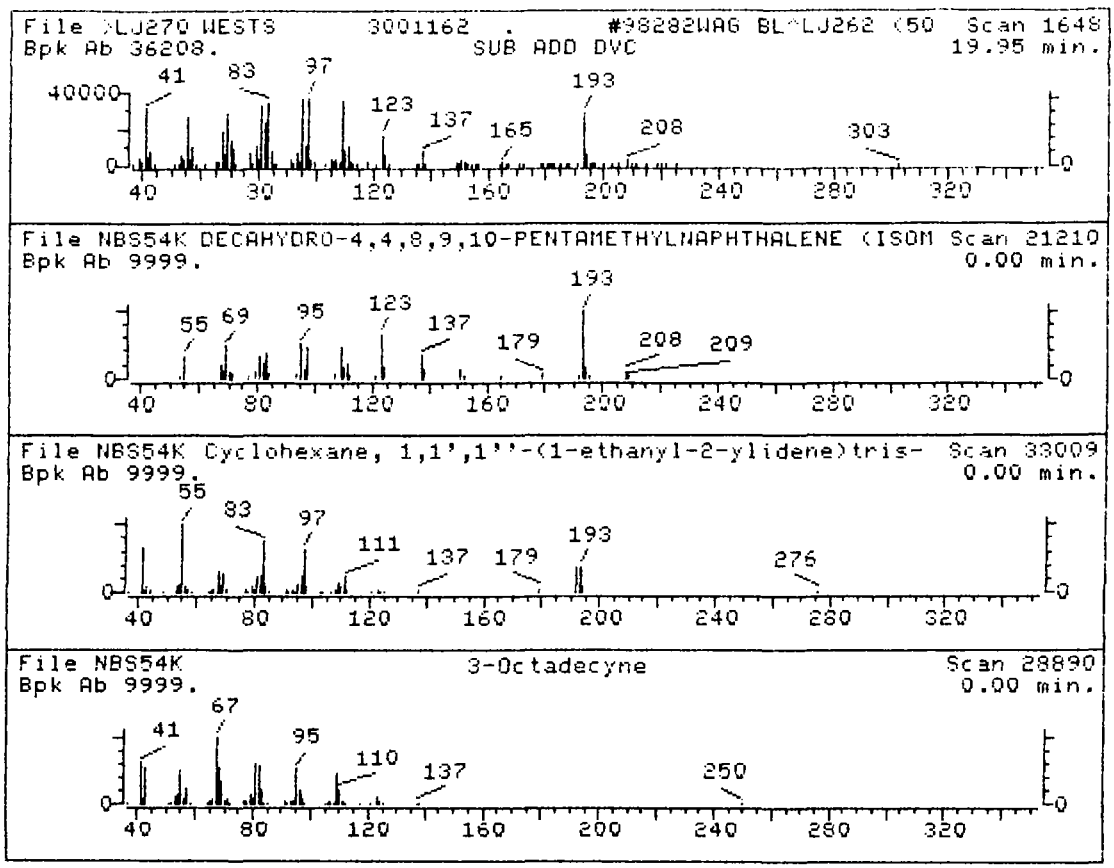
Unknown
TDT303
10/15/98

1. 1H-Indole-3-ethanamine, .alpha.-methyl- 174 C11H14N2
2. 1H-Indole, 1-methyl- 131 C9H9N
3. Indolizine, 5-methyl- 131 C9H9N
4. Indolizine, 1-methyl- 131 C9H9N
5. Indolizine, 6-methyl- 131 C9H9N
6. Indolizine, 7-methyl- 131 C9H9N

Sample file: >LJ270 Spectrum #: 1623
Search speed: 3 Tilting option: N No. of ion ranges searched: 251

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	50*	299263	16449	NBS54K	57	43	2	0	71	32	20	34
2.	31*	603769	16388	NBS54K	31	70	2	0	76	32	12	14
3.	20*	1761199	16392	NBS54K	21	55	2	0	62	54	5	13
4.	20*	767613	16390	NBS54K	23	57	2	0	57	54	5	13
5.	20*	1761111	16386	NBS54K	24	58	3	0	62	54	5	12
6.	20*	1761122	16387	NBS54K	20	56	2	0	57	54	5	13

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 359.70 ug/mL



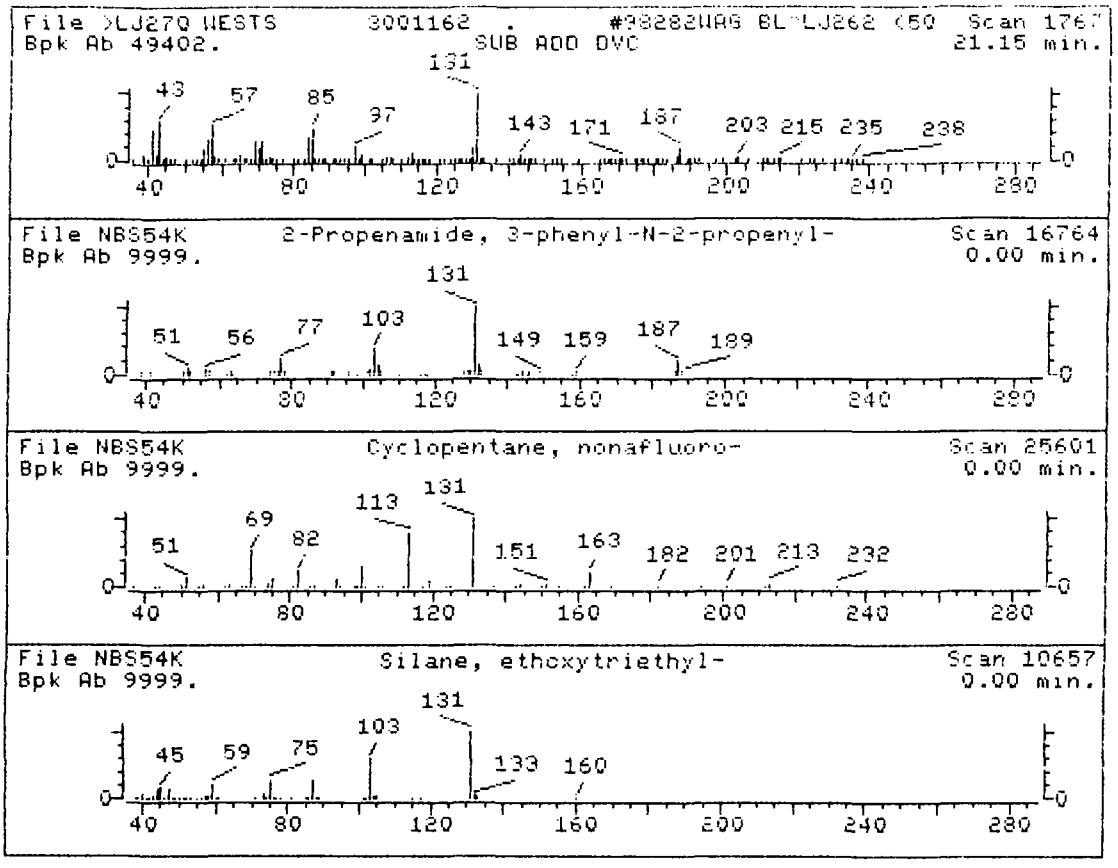
Unknown
TDS363
10/15/98

1. DECAHYDRO-4,4,8,9,10-PENTAMETHYLNAPHTHALENE (ISOMER 208 C15H28
2. Cyclohexane, 1,1',1''-(1-ethanyl-2-ylidene)tris- 276 C20H36
3. 3-Octadecyne 250 C18H34
4. Naphthalene, 1-(1,1-dimethylethyl)decahydro- 194 C14H26
5. 1H-Indene, octahydro-2,2,4,4,7,7-hexamethyl-, trans- 208 C15H28

Sample file: >LJ270 Spectrum #: 1648
Search speed: 3 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_1	R_IV
1.	21*	21210	28218	NBS54K	51	100	1	0	62	59	5	34
2.	20*	55682865	28276	NBS54K	52	99	3	0	126	55	9	15
3.	18*	61886644	12255	NBS54K	50	98	2	0	106	59	4	23
4.	11*	56292649	17983	NBS54K	39	92	3	0	90	63	2	13
5.	11*	54832836	28219	NBS54K	27	115	3	0	57	62	2	13

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 27.53 ug/mL



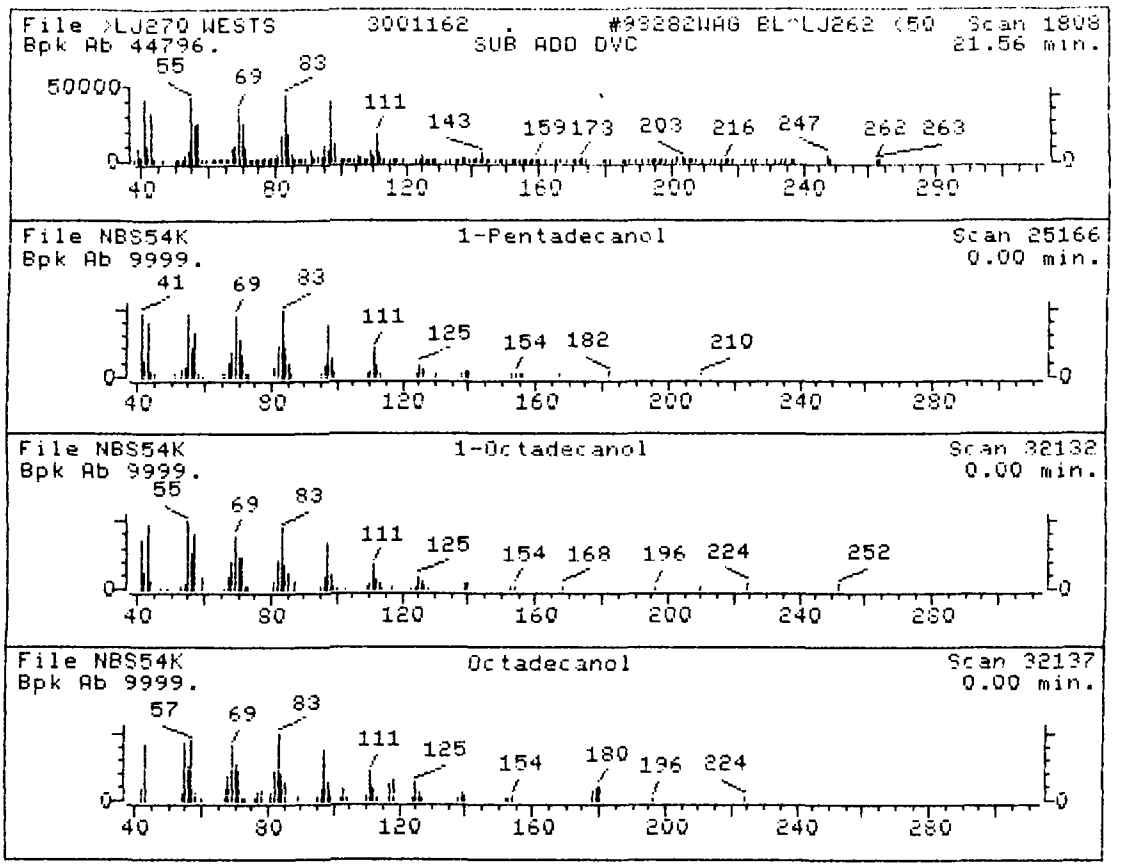
Unknown
TOBS
10/15/98

1. 2-Propenamide, 3-phenyl-N-2-propenyl- 187 $C_{12}H_{13}NO$
2. Cyclopentane, nonafluoro- 232 C_5F_9
3. Silane, ethoxytriethyl- 160 $C_8H_{20}OSi$
4. Propanethioamide, N,N-dimethyl-3-oxo- 131 C_5H_9NOS

Sample file: >LJ270 Spectrum #: 1767
Search speed: 3 Tilting option: N No. of ion ranges searched: 116

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	20*	41041343	16631	NBS54K	48	60	2	0	100	52	5	19
2.	15*	376658	13117	NBS54K	23	99	3	0	100	60	3	12
3.	11*	597671	16610	NBS54K	23	84	3	0	100	64	2	12
4.	11*	52022761	13319	NBS54K	22	89	2	0	100	62	2	13

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 25.01 ug/mL



UNknown

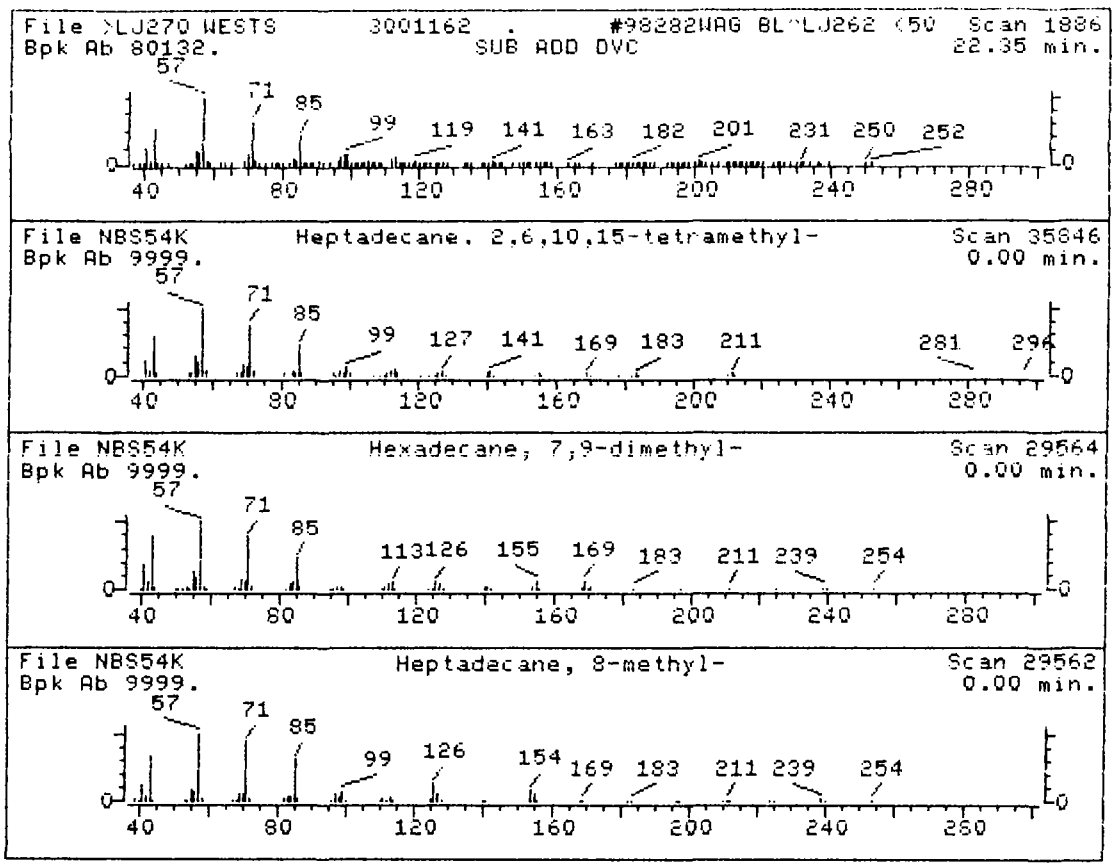
TDT535
10/15/98

1. 1-Pentadecanol 228 C15H32O
2. 1-Octadecanol 270 C18H38O
3. Octadecanol 270 C18H38O
4. Cyclopentane, 1-ethyl-3-methyl-, trans- 112 C8H16
5. 3-Heptene, 4-ethyl- 126 C9H18
6. Cyclopentane, 1,1,3,4-tetramethyl-, cis- 126 C9H18

Sample file: >LJ270 Spectrum #: 1808
Search speed: 3 Tilting option: N No. of ion ranges searched: 163

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	83	629765	9774	NBS54K	100	63	3	0	87	5	57	23
2.	83	112925	9812	NBS54K	97	73	3	0	94	5	57	22
3.	78	26762447	9813	NBS54K	84	92	3	0	96	5	55	16
4.	47*	2613652	6489	NBS54K	54	54	1	0	94	45	16	40
5.	43	33933743	15557	NBS54K	60	32	2	0	346	29	19	21
6.	35*	53907601	12455	NBS54K	36	72	0	0	79	47	11	31

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 24.53 ug/mL



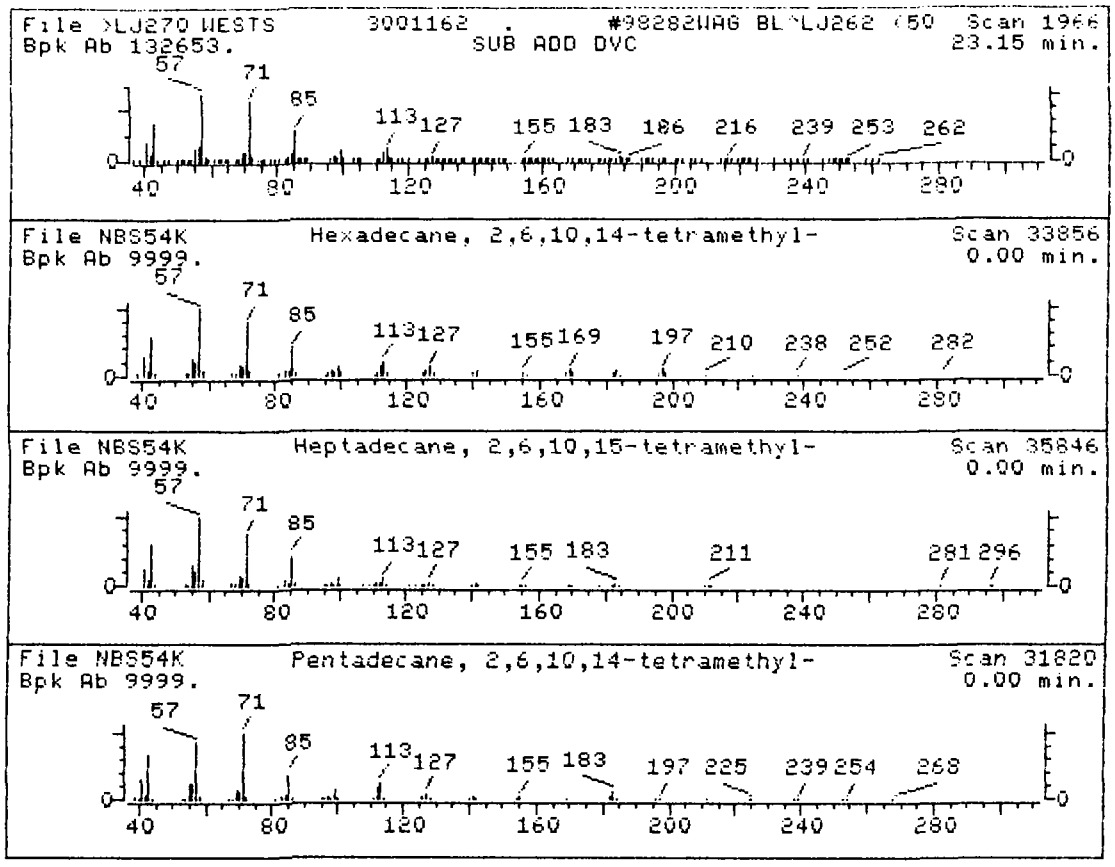
UNknown Alkane
TJB33
10/15/98

1. Heptadecane, 2,6,10,15-tetramethyl- 296 C21H44
2. Hexadecane, 7,9-dimethyl- 254 C18H38
3. Heptadecane, 8-methyl- 254 C18H38
4. Pentadecane 212 C15H32
5. Nonadecane, 9-methyl- 282 C20H42
6. Hexadecane, 2,6,10,14-tetramethyl- 282 C20H42

Sample file: >LJ270 Spectrum #: 1886
Search speed: 3 Tilting option: N No. of ion ranges searched: 221

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	75*	54833486	7219	NBS54K	89	46	2	0	87	16	35	67
2.	73*	21164954	7196	NBS54K	88	51	2	0	70	25	32	67
3.	66*	13287235	15716	NBS54K	68	73	2	0	70	20	31	49
4.	66*	629629	7156	NBS54K	57	49	1	0	100	20	31	46
5.	66*	13287246	18802	NBS54K	76	69	3	0	77	16	31	41
6.	64*	638368	13154	NBS54K	68	74	2	0	62	33	22	49

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 27.95 ug/mL



Unknown Alkane

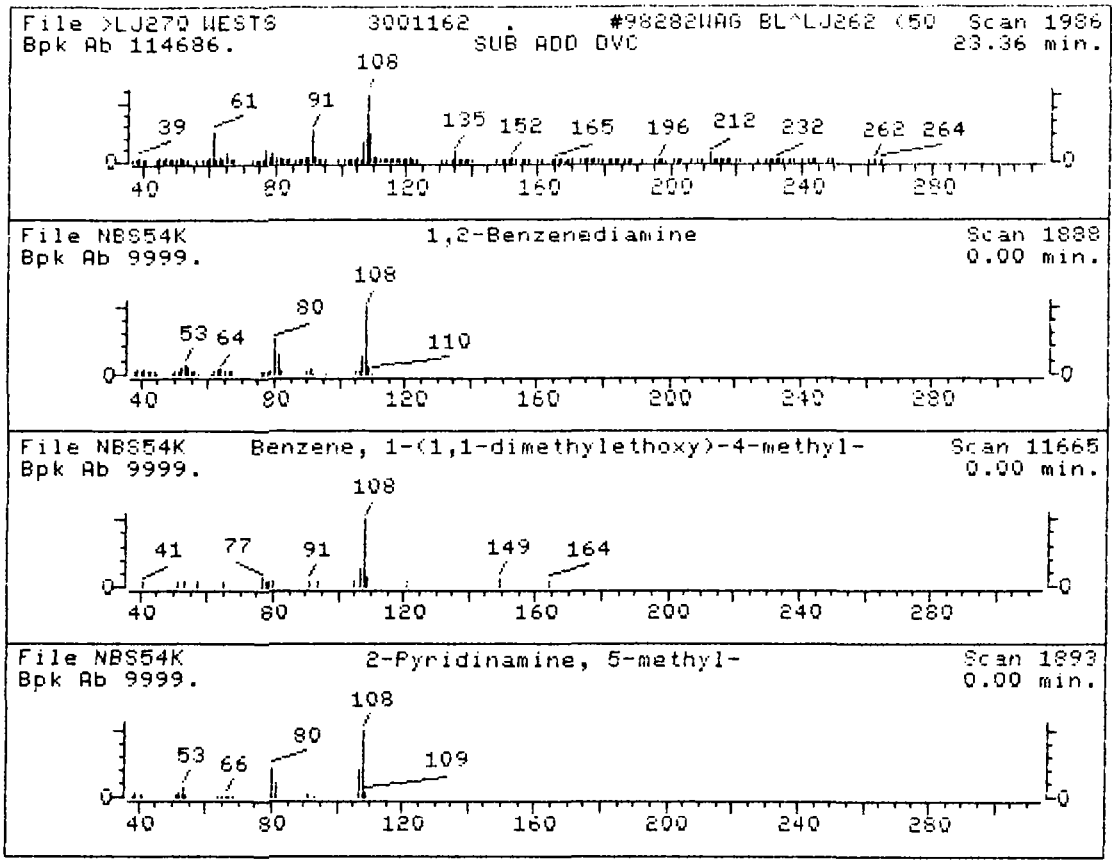
TJTSD
10/15/98

1. Hexadecane, 2,6,10,14-tetramethyl- 282 C20H42
2. Heptadecane, 2,6,10,15-tetramethyl- 296 C21H44
3. Pentadecane, 2,6,10,14-tetramethyl- 268 C19H40
4. Pentadecane 212 C15H32
5. Nonadecane 268 C19H40
6. Decane, 5-propyl- 184 C13H28

Sample file: >LJ270 Spectrum #: 1966
Search speed: 3 Tilting option: N No. of ion ranges searched: 234

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	83*	638368	13154	NBS54K	70	72	2	0	97	7	54	50
2.	76*	54833486	7219	NBS54K	68	67	0	0	68	43	33	83
3.	75*	1921706	13146	NBS54K	82	53	2	0	75	20	35	63
4.	74*	629629	7156	NBS54K	65	41	2	0	132	15	39	44
5.	73*	629925	7205	NBS54K	78	39	2	0	126	23	32	60
6.	71*	17312628	4602	NBS54K	63	48	3	0	100	15	38	31

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 45.51 ug/mL



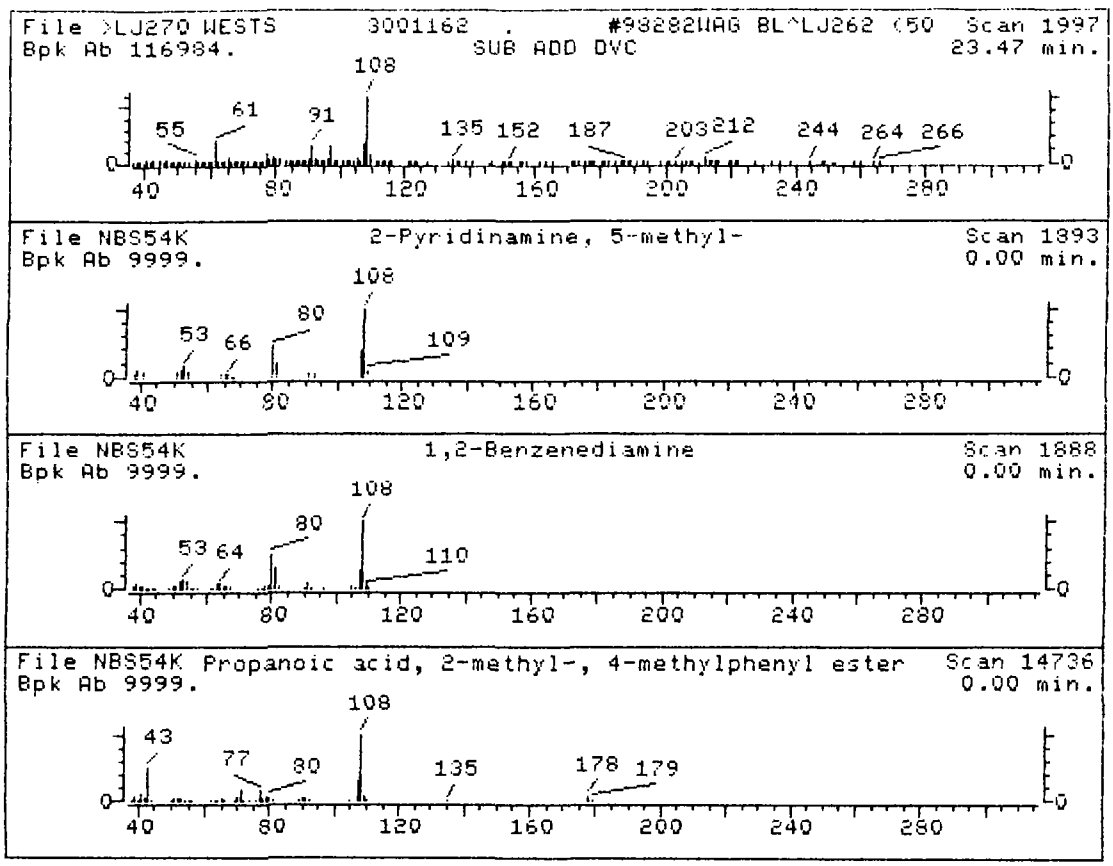
Unknown
TT533
10/15/98

1.	1,2-Benzenediamine	108	C6H8N2
2.	Benzene, 1-(1,1-dimethylethoxy)-4-methyl-	164	C11H16O
3.	2-Pyridinamine, 5-methyl-	108	C6H8N2
4.	1,2-Butanediol, 1-phenyl-	166	C10H14O2
5.	3-Cyclopentene-1-acetaldehyde, 2,2,3-trimethyl-	152	C10H16O
6.	Propanoic acid, 2-methyl-, 4-methylphenyl ester	178	C11H14O2

Sample file: >LJ270 Spectrum #: 1986
Search speed: 3 Tilting option: N No. of ion ranges searched: 153

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_1	R_IV
1.	26*	95545	11918	NBS54K	32	66	2	0	100	45	8	14
2.	26	15359985	12002	NBS54K	50	44	2	0	100	45	8	14
3.	25*	1603414	11920	NBS54K	28	61	2	0	71	48	7	14
4.	25*	22607132	12008	NBS54K	23	77	3	0	100	48	7	12
5.	25*	4501580	11990	NBS54K	22	85	3	0	100	48	7	12
6.	25	103935	12022	NBS54K	55	40	2	0	98	48	7	17

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 22.67 ug/mL



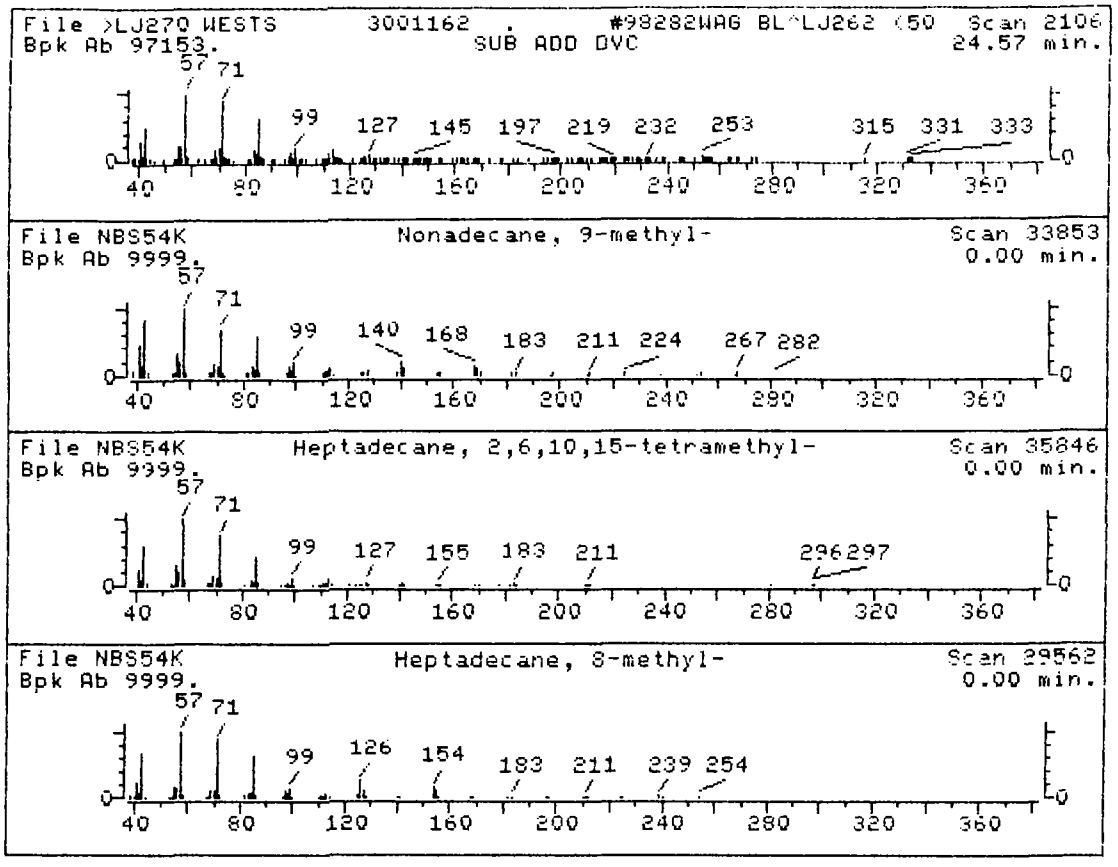
UNknown
TJTBS
10/15/98

1.	2-Pyridinamine, 5-methyl-	108	C6H8N2
2.	1,2-Benzenediamine	108	C6H8N2
3.	Propanoic acid, 2-methyl-, 4-methylphenyl ester	178	C11H14O2
4.	Acetic acid, 2-methylphenyl ester	150	C9H10O2
5.	Benzene, 1-(1,1-dimethylethoxy)-4-methyl-	164	C11H16O
6.	1,3-Benzenediamine	108	C6H8N2

Sample file: >LJ270 Spectrum #: 1997
Search speed: 3 Tilting option: N No. of ion ranges searched: 145

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	34*	1603414	11920	NBS54K	41	48	2	0	69	36	14	21
2.	30*	95545	11918	NBS54K	40	58	2	0	100	36	10	16
3.	28	103935	12022	NBS54K	51	44	2	0	94	36	10	14
4.	28	533186	11980	NBS54K	43	43	2	0	100	36	10	14
5.	27	15359985	12002	NBS54K	47	47	2	0	98	36	10	13
6.	26*	108452	11927	NBS54K	29	58	2	0	100	42	8	14

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 20.13 ug/mL



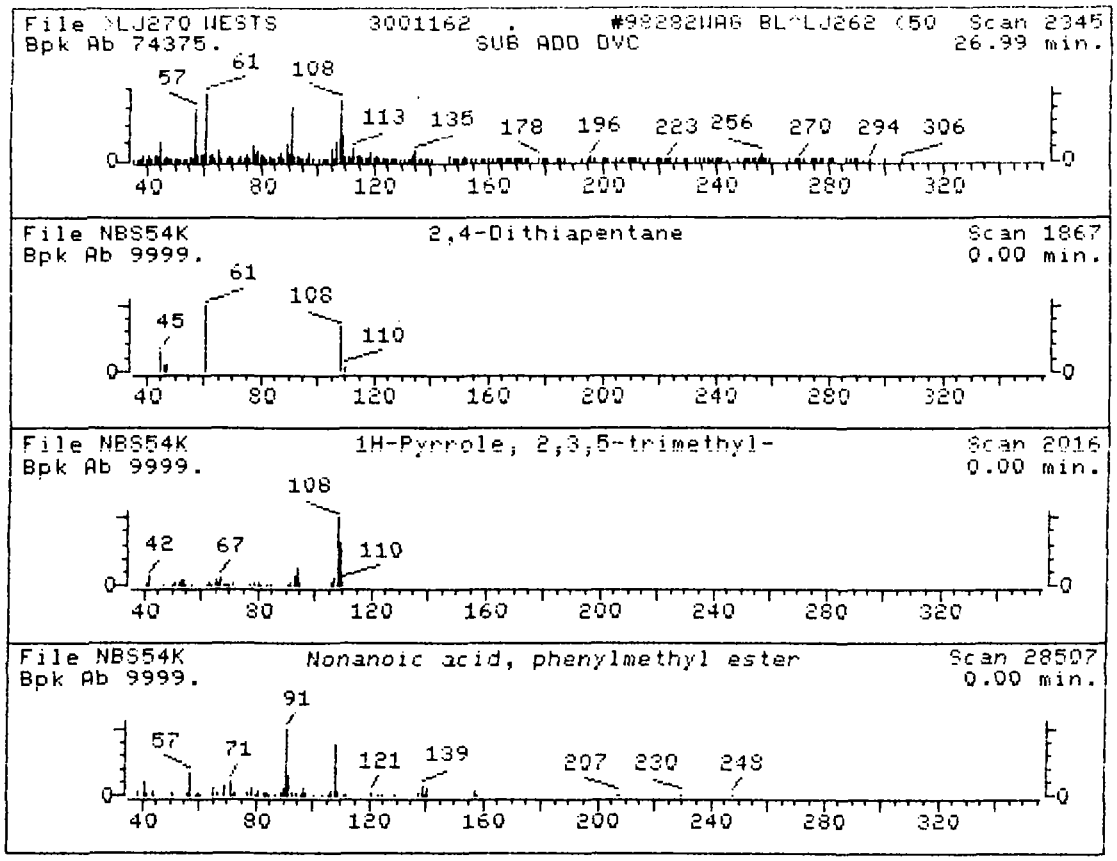
Unknown Alkane
TJB
10/15/98

1.	Nonadecane, 9-methyl-	282	C20H42
2.	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44
3.	Heptadecane, 8-methyl-	254	C18H38
4.	Nonane, 5-butyl-	184	C13H28
5.	Hexadecane, 7,9-dimethyl-	254	C18H38
6.	Tetradecane	198	C14H30

Sample file: >LJ270 Spectrum #: 2106
Search speed: 3 Tilting option: N No. of ion ranges searched: 297

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	83*	13287246	18802	NBS54K	94	51	2	0	96	14	51	72
2.	79*	54833486	7219	NBS54K	80	55	1	0	80	28	37	77
3.	76*	13287235	15716	NBS54K	70	71	2	0	100	14	40	50
4.	74*	17312639	15661	NBS54K	64	49	2	0	89	14	39	43
5.	74*	21164954	7196	NBS54K	76	63	3	0	100	14	39	41
6.	71*	629594	7140	NBS54K	60	45	2	0	176	14	38	37

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HPU6754
Estimated Concentration: 25.85 ug/mL



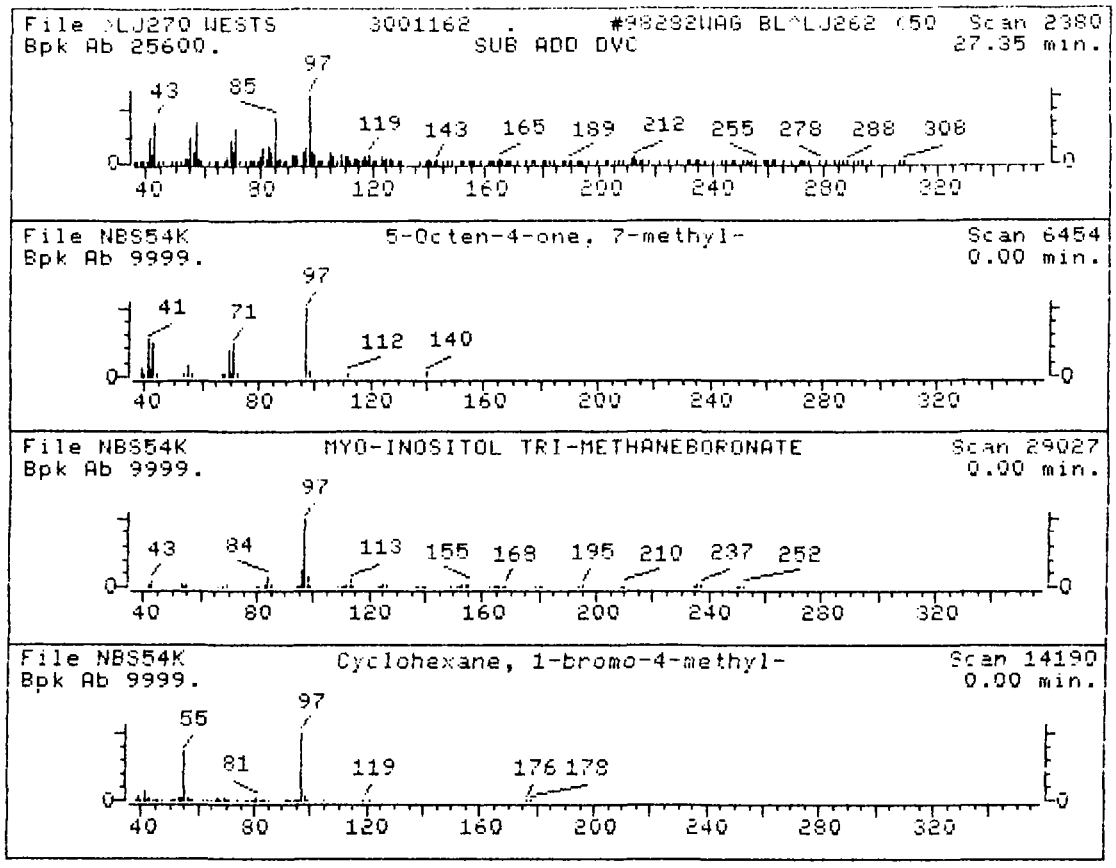
UNKnown
TB5333
10/15/98

1.	2,4-Dithiapentane	108 C3H8S2
2.	1H-Pyrrole, 2,3,5-trimethyl-	109 C7H11N
3.	Nonanoic acid, phenylmethyl ester	248 C16H24O2
4.	2-Pyridinamine, 5-methyl-	108 C6H8N2
5.	Imidazo[4,5-d]imidazole, 1,6-dihydro-	108 C4H4N4
6.	2-Pyridinamine, 4-methyl-	108 C6H8N2

Sample file: >LJ270 Spectrum #: 2345
Search speed: 3 Tilting option: N No. of ion ranges searched: 104

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	31*	1618264	2318	NBS54K	26	39	2	0	100	34	12	14
2.	25*	2199419	11958	NBS54K	36	62	2	0	61	50	7	14
3.	11	6471665	12053	NBS54K	65	73	2	0	80	63	2	14
4.	11*	1603414	11920	NBS54K	28	61	2	0	76	64	2	14
5.	11*	35369369	11911	NBS54K	22	59	2	0	91	64	2	13
6.	11*	695341	11916	NBS54K	22	64	2	0	91	64	2	13

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 42.10 ug/mL



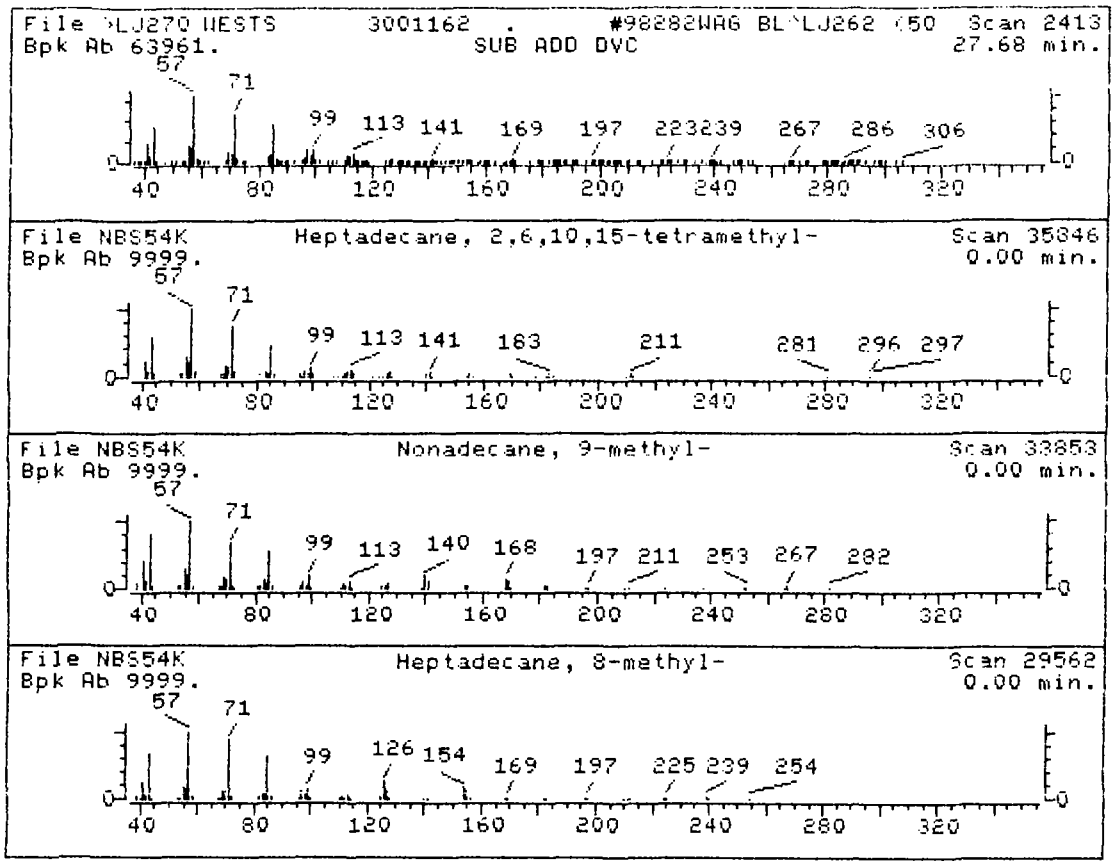
Unknown
TB383
10/15/98

1.	5-Octen-4-one, 7-methyl-	140	C9H16O
2.	MYO-INOSITOL TRI-METHANEBORONATE	252	C9H15B3O6
3.	Cyclohexane, 1-bromo-4-methyl-	176	C7H13Br
4.	Cyclohexane, 1-ethyl-1-methyl-	126	C9H18
5.	Cyclohexane, 1-bromo-2-methyl-	176	C7H13Br
6.	3-Butene-1,2-diol, 1-(2-furanyl)-3-methyl-	168	C9H12O3

Sample file: >LJ270 Spectrum #: 2380
Search speed: 3 Tilting option: N No. of ion ranges searched: 217

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	67*	32064781	9626	NBS54K	60	25	0	0	72	42	24	74
2.	47*	29027	9786	NBS54K	65	54	2	0	100	42	16	44
3.	31*	6294402	9712	NBS54K	36	46	1	0	98	42	8	19
4.	31*	4926903	9599	NBS54K	39	52	2	0	100	42	8	19
5.	30*	6294399	9711	NBS54K	36	55	2	0	100	42	8	18
6.	30*	21141719	9688	NBS54K	33	58	1	0	93	42	8	18

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06/54
Estimated Concentration: 24.37 ug/mL



Unknown Alkane

TD1385

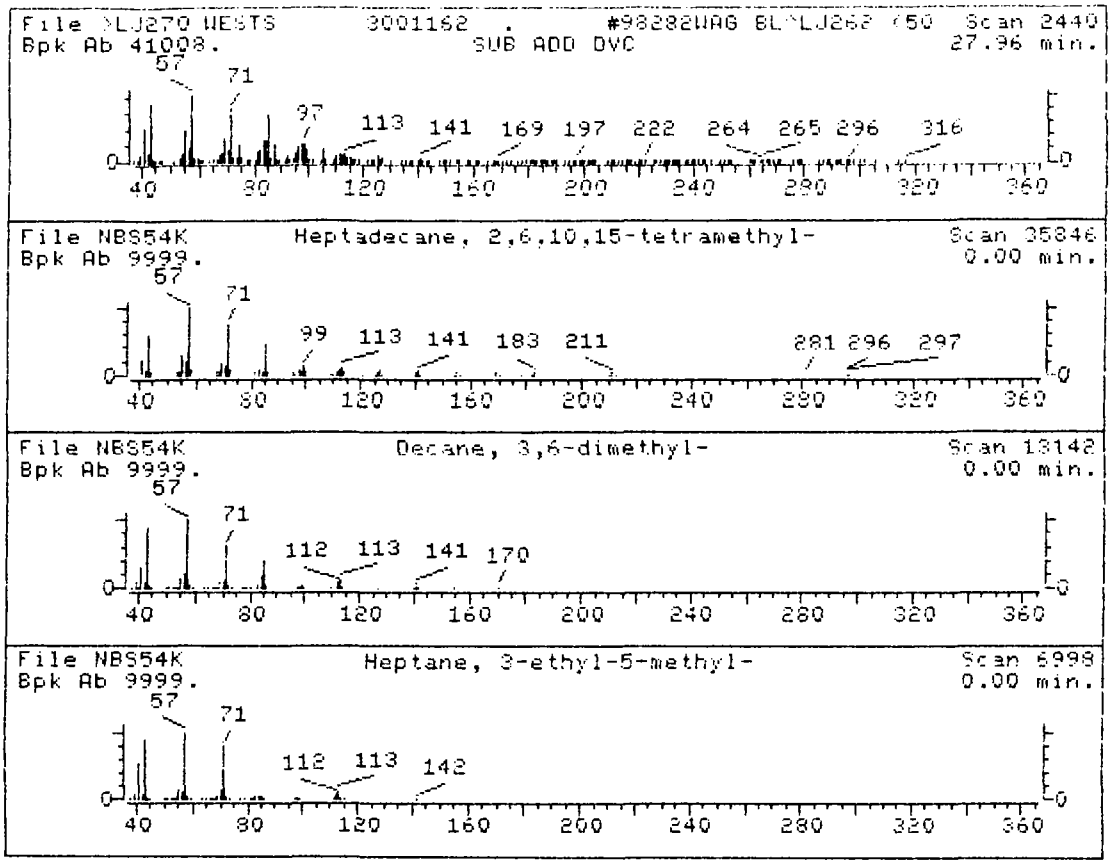
10/15/98

1.	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44
2.	Nonadecane, 9-methyl-	282	C20H42
3.	Heptadecane, 8-methyl-	254	C18H38
4.	Tritetracontane	604	C43H88
5.	Dodecane, 1-iodo-	296	C12H25I
6.	Hexadecane, 7,9-dimethyl-	254	C18H38

Sample file: >LJ270 Spectrum #: 2413
Search speed: 3 Tilting option: N No. of ion ranges searched: 280

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	92*	54833486	7219	NBS54K	83	52	0	0	76	28	57	95
2.	79*	13287246	18802	NBS54K	83	62	2	0	85	14	43	65
3.	76*	13287235	15716	NBS54K	75	66	2	0	83	14	40	57
4.	74	7098217	7261	NBS54K	88	86	1	0	97	14	59	44
5.	71	4292197	7217	NBS54K	82	47	1	0	90	14	38	35
6.	71*	21164954	7196	NBS54K	83	56	2	0	69	28	29	65

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HPU6/54
Estimated Concentration: 26.21 ug/mL



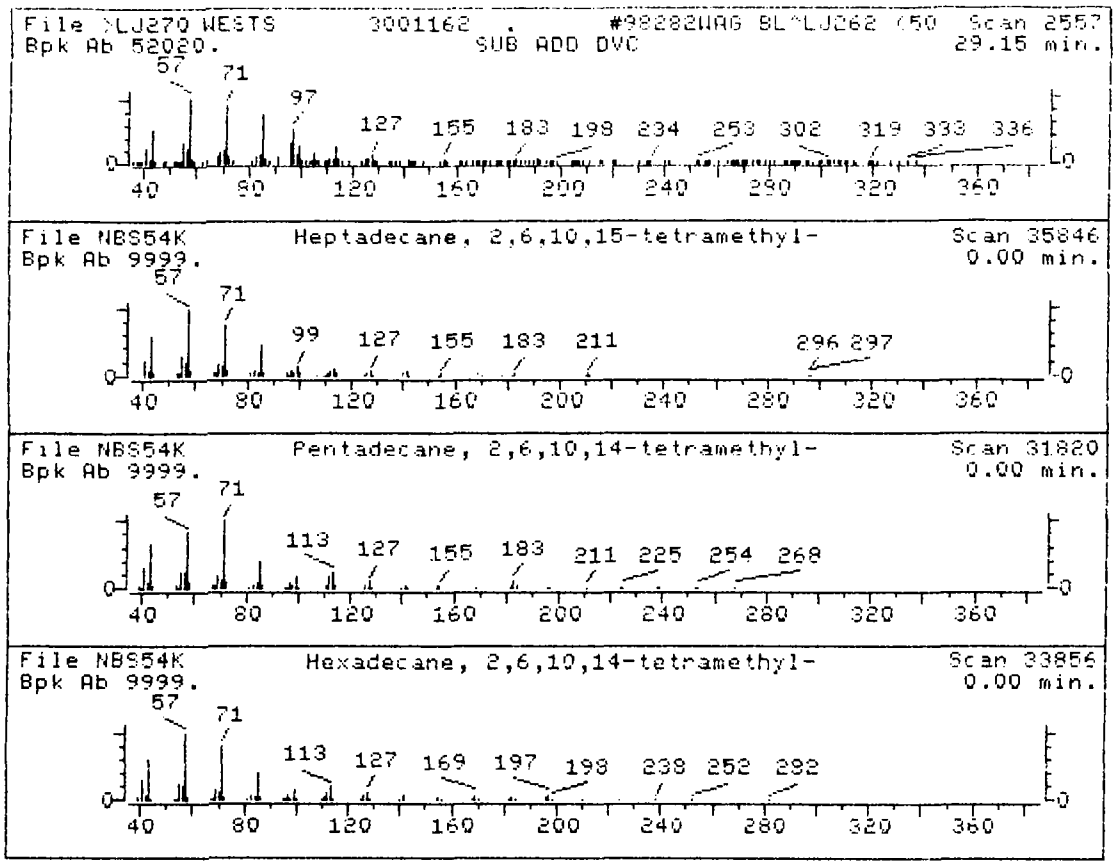
unknown Alkane
DB63
10/15/98

1.	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44
2.	Decane, 3,6-dimethyl-	170	C12H26
3.	Heptane, 3-ethyl-5-methyl-	142	C10H22
4.	Nonadecane, 9-methyl-	282	C20H42
5.	Tetratriacontane	478	C34H70
6.	Octatetracontane, 1-iodo-	800	C48H97I

Sample file: >LJ270 Spectrum #: 2440
Search speed: 3 Tilting option: N No. of ion ranges searched: 307

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	86*	54833486	7219	NBS54K	69	66	0	0	100	23	47	86
2.	69*	17312537	13035	NBS54K	60	38	0	0	95	36	28	73
3.	68*	52896909	4537	NBS54K	65	29	0	0	96	46	20	78
4.	68*	13287246	18802	NBS54K	76	69	2	0	100	23	30	59
5.	60	14167590	7257	NBS54K	70	93	2	0	100	11	30	16
6.	59	40710701	7264	NBS54K	82	106	1	0	100	23	27	35

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06794
Estimated Concentration: 35.97 ug/mL



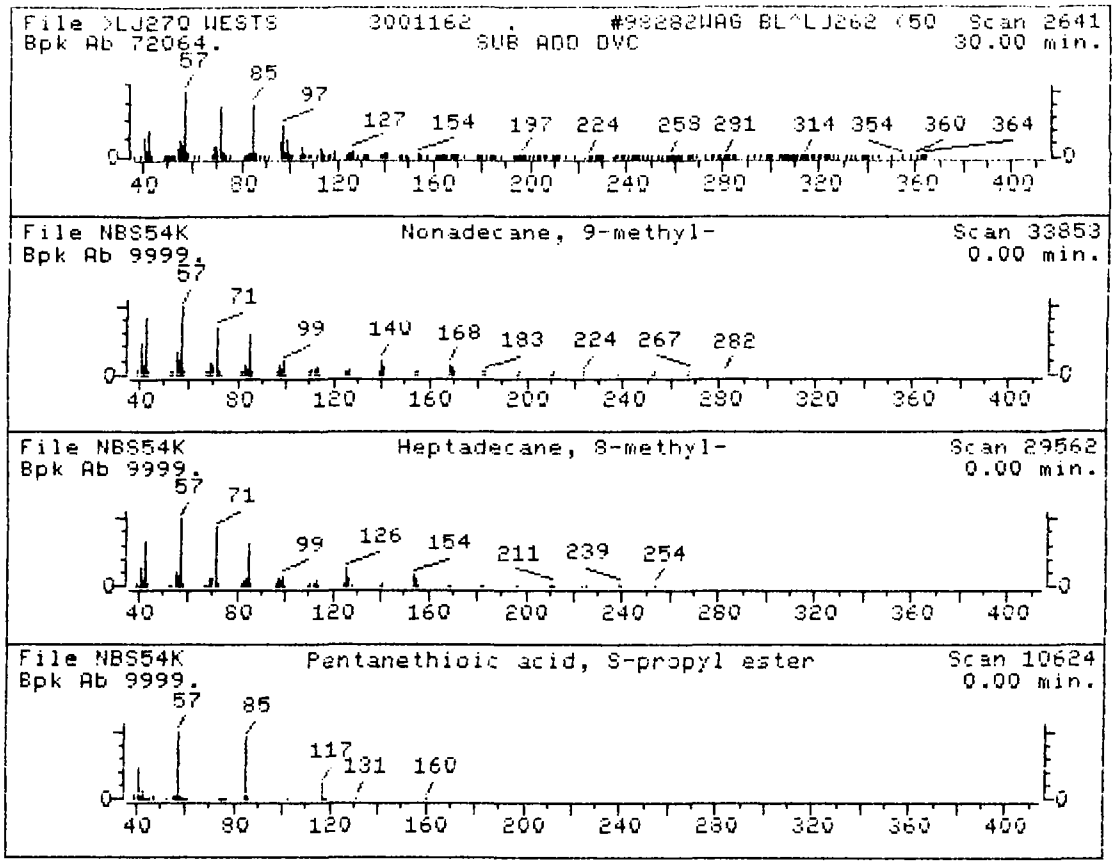
unknown Alkane

1. Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44
2. Pentadecane, 2,6,10,14-tetramethyl-	268	C19H40
3. Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42
4. Decane, 2,6,8-trimethyl-	184	C13H28
5. Hexatriacontane	506	C36H74
6. Nonadecane	268	C19H40

Sample file: >LJ270 Spectrum #: 2557
Search speed: 3 Tilting option: N No. of ion ranges searched: 302

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CUN	C_I	R_IV
1.	84*	54833486	7219	NBS54K	69	66	0	0	90	34	40	86
2.	59*	1921706	13146	NBS54K	74	61	2	0	87	36	21	56
3.	59*	638368	13154	NBS54K	76	66	2	0	93	38	21	59
4.	42*	62108263	4599	NBS54K	50	42	2	0	256	40	17	31
5.	41	630068	10493	NBS54K	72	91	3	0	149	24	17	12
6.	41*	629925	7205	NBS54K	73	44	3	0	170	41	14	38

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 26.10 ug/mL



Unknown Alkane

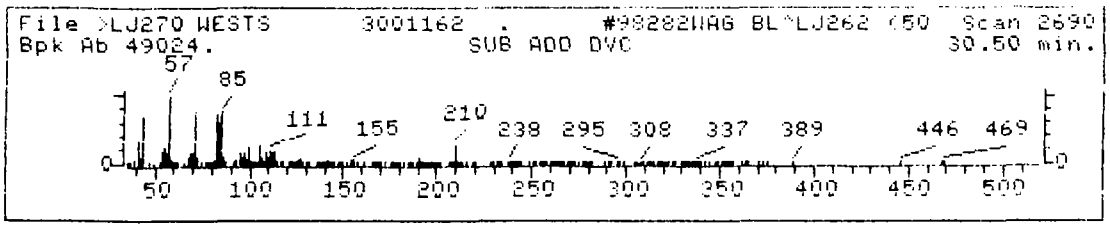
DT584
10/15/99

1. Nonadecane, 9-methyl- 282 C20H42
2. Heptadecane, 8-methyl- 254 C18H38
3. Pentanethioic acid, S-propyl ester 160 C8H16OS
4. 1,5-Heptadiene-3,4-diol, 2,5-dimethyl- 156 C9H16O2
5. Cyclobutanone, oxime 85 C4H7NO
6. Hexadecane, 1-iodo- 352 C16H33I

Sample file: >LJ270 Spectrum #: 2641
Search speed: 3 Tilting option: N No. of ion ranges searched: 260

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	73*	13287246	18802	NBS54K	87	58	2	0	100	21	32	66
2.	64*	13287235	15716	NBS54K	63	78	2	0	89	21	28	41
3.	55*	2432760	7037	NBS54K	47	42	2	0	88	21	22	27
4.	51*	22607165	7005	NBS54K	44	48	2	0	80	21	22	23
5.	49*	2972056	6847	NBS54K	44	52	2	0	90	21	22	21
6.	49	544774	33824	NBS54K	79	71	2	0	100	21	22	21

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06294
Estimated Concentration: 26.06 ug/mL



UNKnown

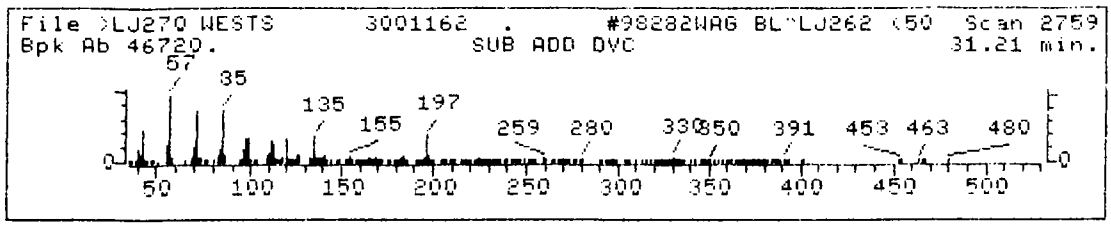
TJTB34

10/15/98

Sample file: >LJ270 Spectrum #: 2690

No data base entries were retrieved.

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 21.75 ug/mL



Unknown

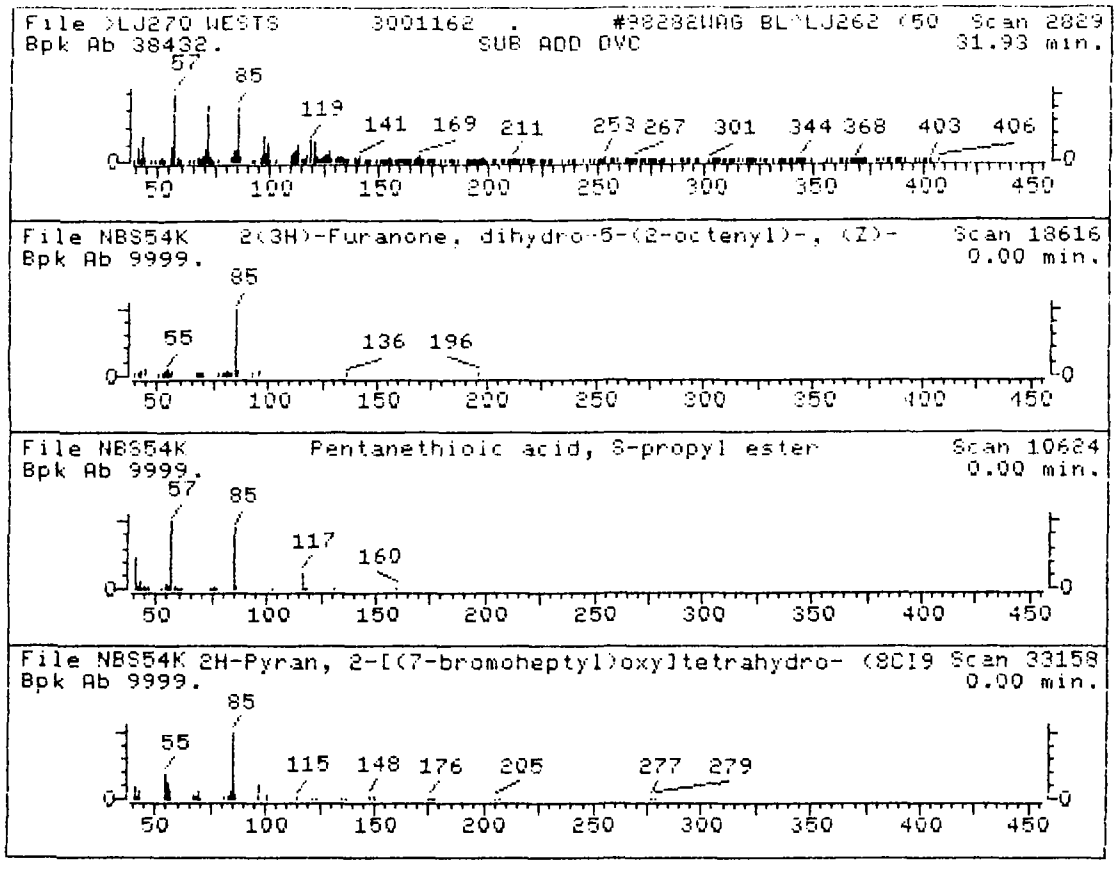
TBBS

10/15/15

Sample file: >LJ270 Spectrum #: 2759

No data base entries were retrieved.

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 53.46 ug/mL



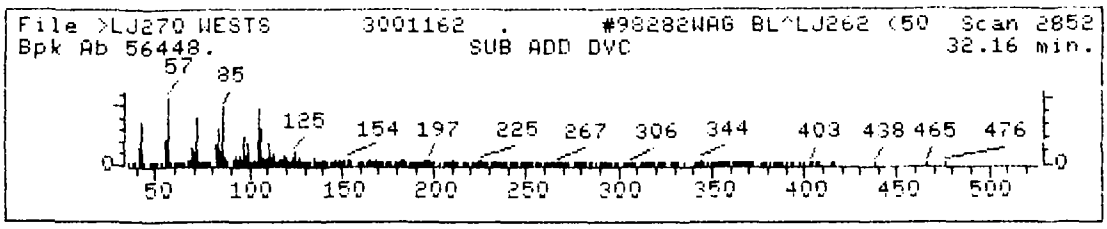
Unknown
TJB
10/15/98

1. 2(3H)-Furanone, dihydro-5-(2-octenyl)-, (Z)- 196 C12H20O2
2. Pentanethioic acid, S-propyl ester 160 C8H16OS
3. 2H-Pyran, 2-[(7-bromoheptyl)oxy]tetrahydro- (8CI9CI) 278 C12H23BrO2
4. Pentanethioic acid, S-ethyl ester 146 C7H14OS
5. Tetradecane, 2-methyl- 212 C15H32
6. Butanethioic acid, 3-methyl-, S-(1-methylpropyl) est 174 C9H18OS

Sample file: >LJ270 Spectrum #: 2829
Search speed: 3 Tilting option: N No. of ion ranges searched: 331

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	57*	18679180	7137	NBS54K	46	49	1	0	74	23	22	29
2.	49*	2432760	7037	NBS54K	48	41	3	0	88	23	22	21
3.	48	10160255	7208	NBS54K	61	66	1	0	80	23	17	19
4.	48*	2432920	6990	NBS54K	39	48	2	0	100	23	17	19
5.	48*	1560958	7157	NBS54K	56	68	3	0	146	23	17	19
6.	46	2432919	7086	NBS54K	48	45	1	0	74	23	17	17

Sample # 3001162 Injected 10/12/98 at 17:18 on Instrument # HP06294
Estimated Concentration: 24.01 ug/ml.



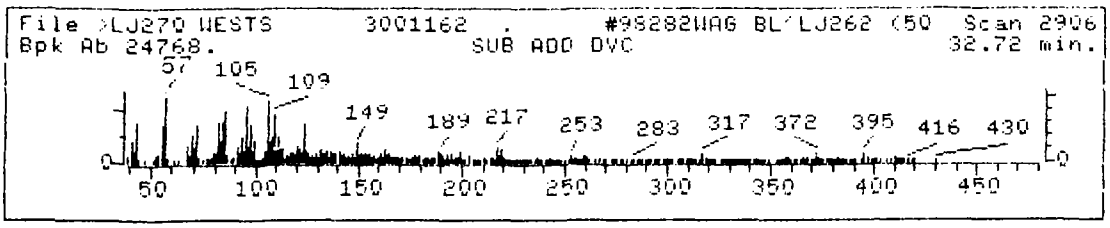
Unknown

TJT553
10/15/98

Sample file: >LJ270 Spectrum #: 2852

No data base entries were retrieved.

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 40.69 ug/mL

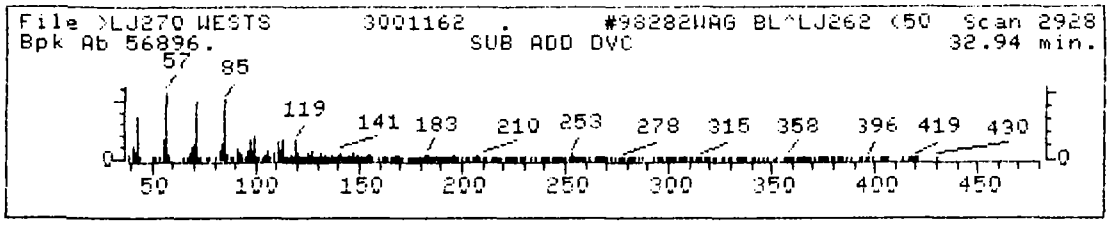


UNKnown
TJB88
10/15/98

Sample file: >LJ270 Spectrum #: 2906

No data base entries were retrieved.

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 46.86 ug/mL

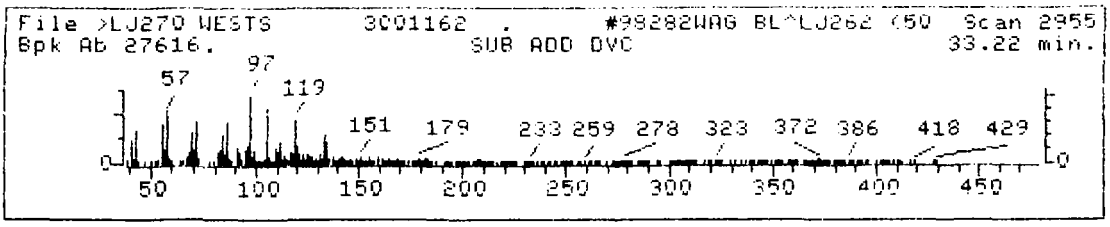


Unknown
TJBS
10/15/98

Sample file: >LJ270 Spectrum #: 2928

No data base entries were retrieved.

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 39.31 ug/mL

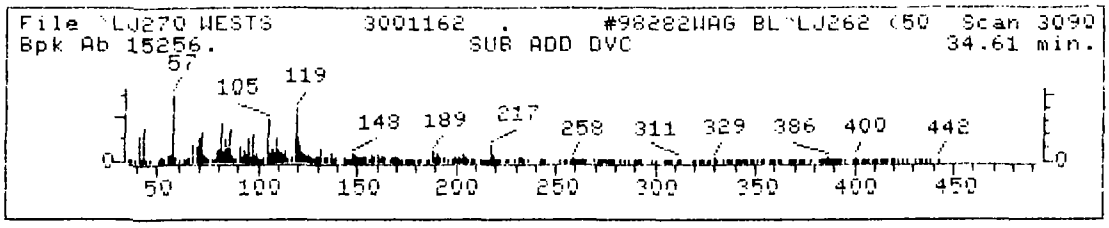


Unknown
TBBS
10/15/98

Sample file: >LJ270 Spectrum #: 2955

No data base entries were retrieved.

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 67.01 ug/mL

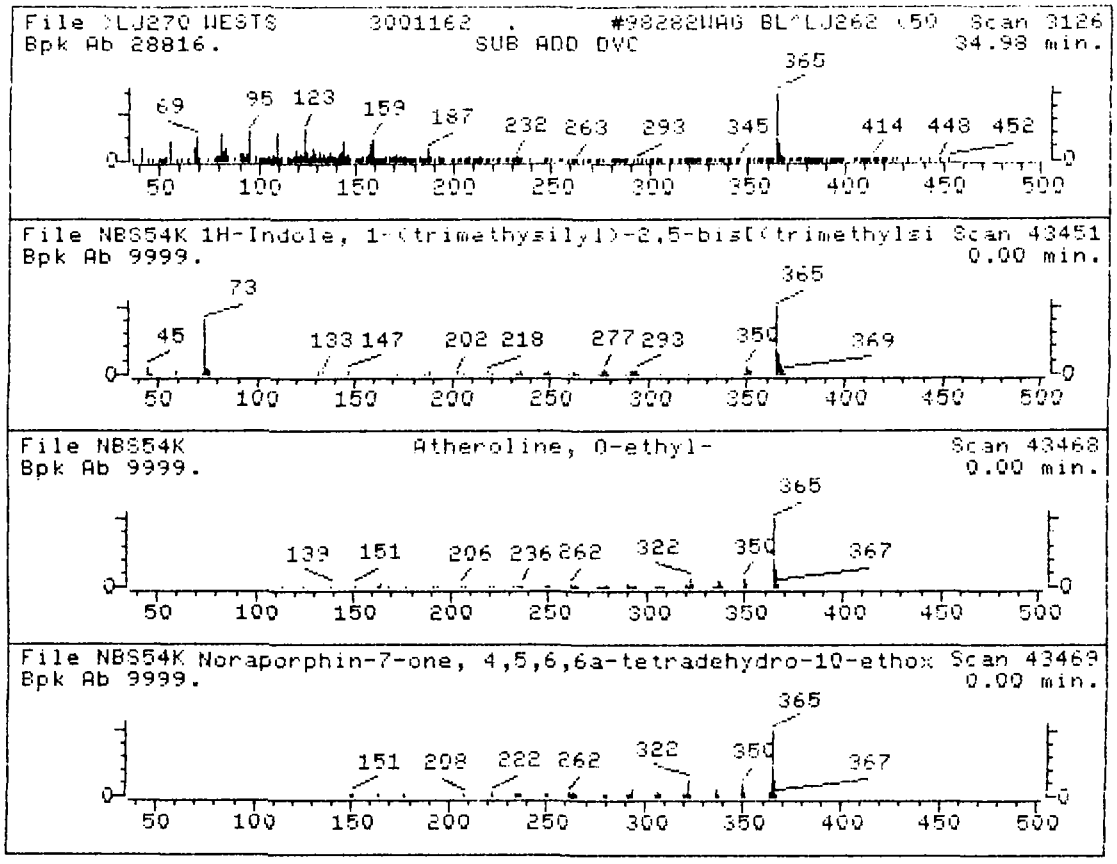


UNKNOWN
TJT535
10/15/98

Sample file: >LJ270 Spectrum #: 3090

No data base entries were retrieved.

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 29.12 ug/mL

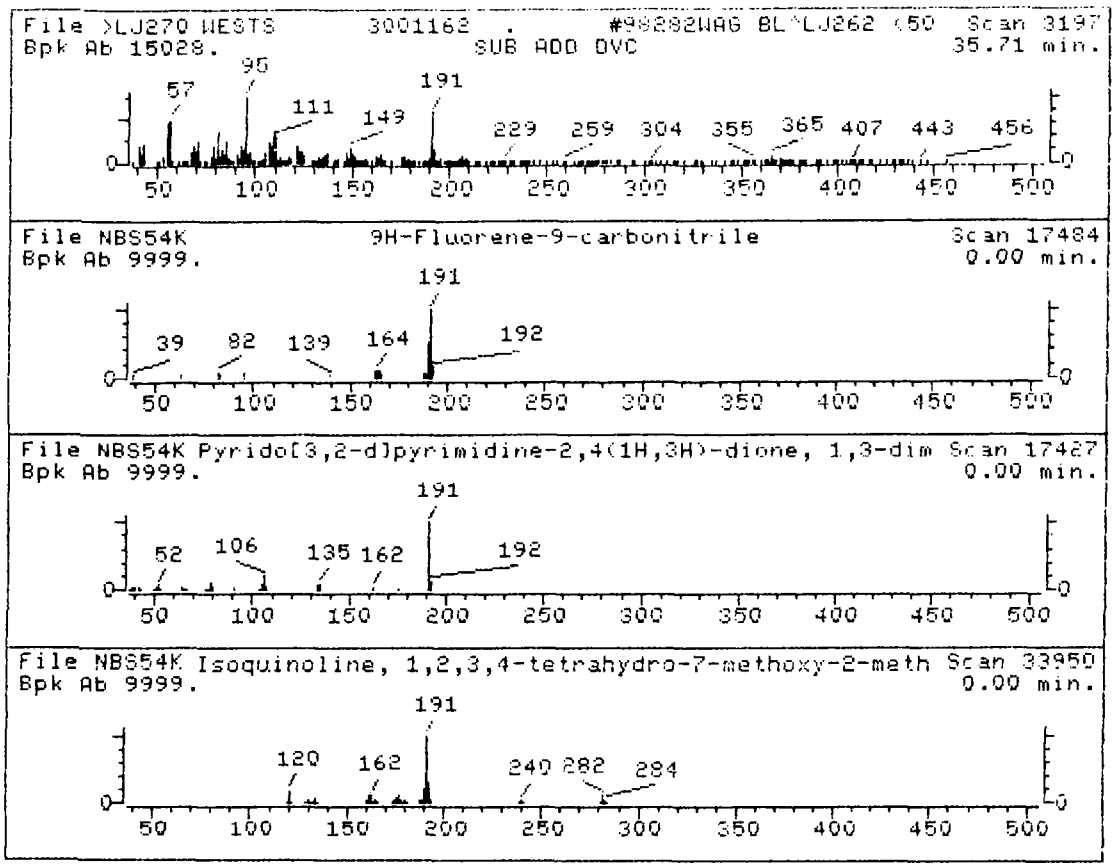


1. 1H-Indole, 1-(trimethysilyl)-2,5-bis[(trimethylsilyl)oxy]- 365 C17H31NO2Si3
2. Atheroline, O-ethyl- 365 C21H19NO5
3. Noraporphin-7-one, 4,5,6,6a-tetradehydro-10-ethoxy-1 ,2,9-trimethoxy- 365 C21H19NO5

Sample file: >LJ270 Spectrum #: 3126
Search speed: 3 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	52*	74381412	47703	NBS54K	43	114	2	0	89	18	20	14
2.	52*	11036989	47710	NBS54K	25	129	2	0	100	18	20	14
3.	52*	15358017	47711	NBS54K	33	142	2	0	100	18	20	14

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06/54
Estimated Concentration: 26.93 ug/mL



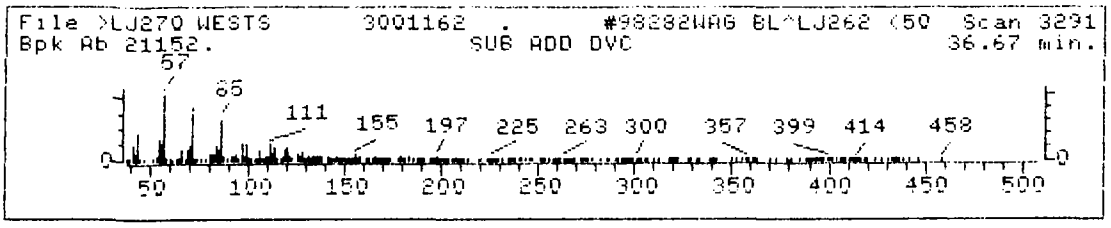
UNKNOWN
TOTSS
COLLS KB

1.	9H-Fluorene-9-carbonitrile	191	C14H9N
2.	Pyrido[3,2-d]pyrimidine-2,4(1H,3H)-dione, 1,3-dimethyl-	191	C9H9N3O2
3.	Isoquinoline, 1,2,3,4-tetrahydro-7-methoxy-2-methyl-8-(phenylmethoxy)-	283	C18H21NO2
4.	1,1,3,3-Tetramethyl-1,3-disilaindan	206	C11H18Si2
5.	Isothiazole, 4-methoxy-3-phenyl-	191	C10H9NOS
6.	Anthracene, 9-dodecyltetradecahydro-	360	C26H48

Sample file: >LJ270 Spectrum #: 3197
Search speed: 3 Tilting option: N No. of ion ranges searched: 290

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	49*	1529404	27814	NBS54K	45	50	1	0	56	27	19	27
2.	45*	24410251	27797	NBS54K	43	56	1	0	75	27	19	23
3.	42	36646874	27859	NBS54K	75	76	2	0	58	27	14	19
4.	37*	54113938	27821	NBS54K	26	40	2	0	75	27	14	14
5.	37*	19574255	27802	NBS54K	34	96	2	0	57	27	14	14
6.	36	55401757	27867	NBS54K	73	97	3	0	75	27	14	13

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 20.87 ug/mL



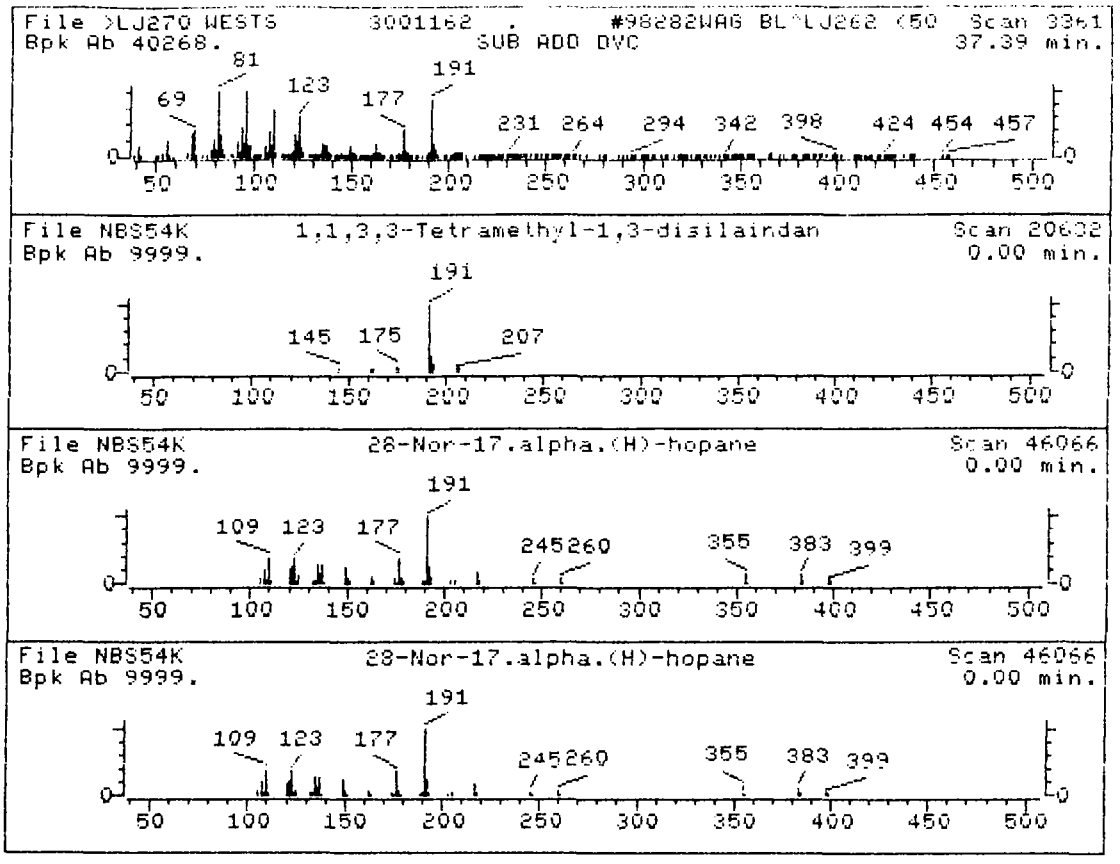
UNKNOWN

DT583
10/15/98

Sample file: >LJ270 Spectrum #: 3291

No data base entries were retrieved.

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 24.90 ug/mL



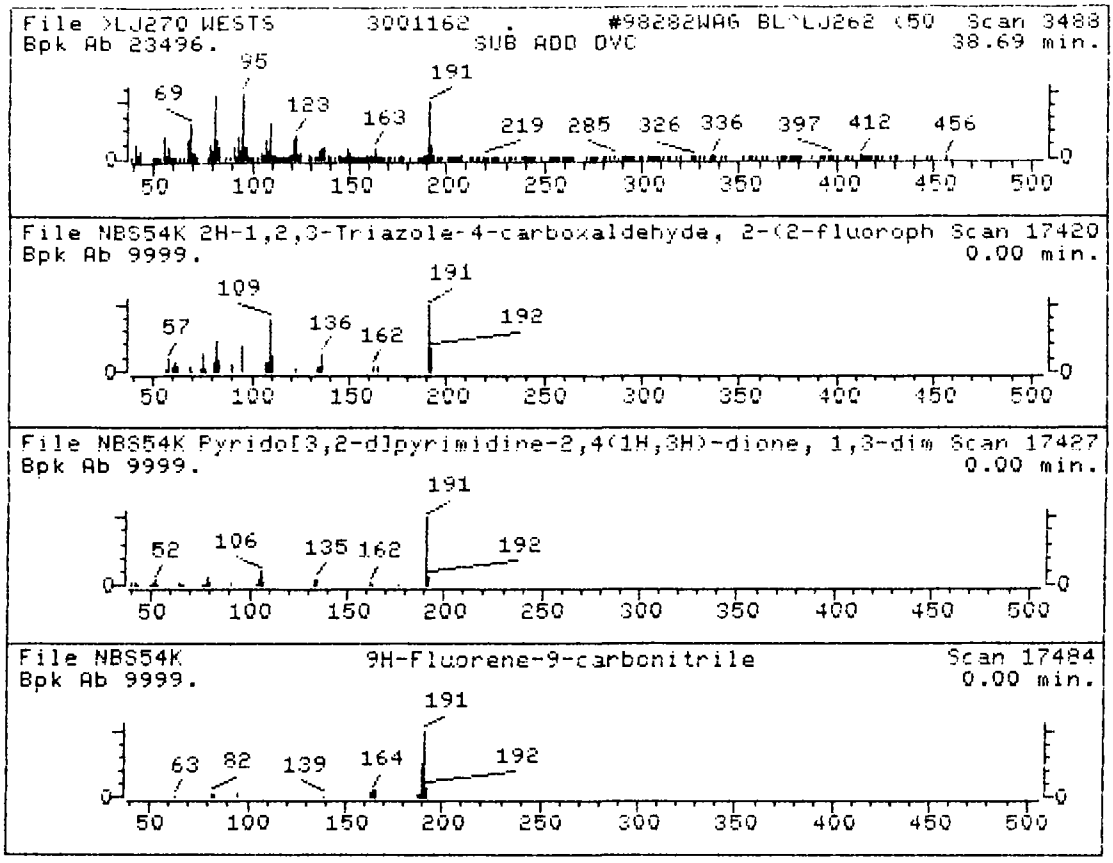
UNKnown
TJT505
10/15/98

1. 1,1,3,3-Tetramethyl-1,3-disilaindan 206 C11H18Si2
2. 28-Nor-17.alpha.(H)-hopane 398 C29H50
3. 28-Nor-17.alpha.(H)-hopane 398 C29H50
4. Phenanthrene, 9-dodecyltetradecahydro- 360 C26H48
5. 1,4-Benzenediol, 2-[(1,4,4a,5,6,7,8,8a-octahydro-2,5,5,8a-tetramethyl-1-naphthalenyl)methyl]-, [1R-(1.alpha.,4a.beta.,8a.alpha.)]- 314 C21H30O2
6. 9H-Fluorene-2-carbonitrile 191 C14H9N

Sample file: >LJ270 Spectrum #: 3361
Search speed: 3 Tilting option: N No. of ion ranges searched: 288

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	73*	54113938	27821	NBS54K	45	21	0	0	67	23	32	65
2.	52	53584604	49452	NBS54K	75	110	2	0	60	19	20	19
3.	52	53584604	49452	NBS54K	75	110	2	0	60	19	20	19
4.	48	55334015	27868	NBS54K	75	98	2	0	87	23	17	19
5.	44	39707556	27866	NBS54K	69	119	2	0	65	23	17	15
6.	43*	2523480	27815	NBS54K	33	76	2	0	87	23	17	14

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 53.08 ug/mL



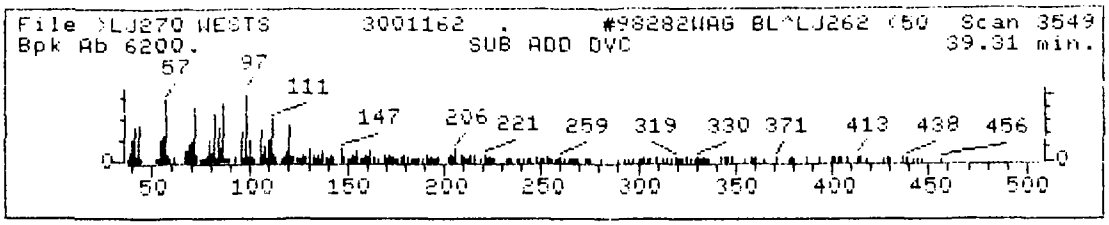
UNKNOWN
TD335
10/15/98

1. 2H-1,2,3-Triazole-4-carboxaldehyde, 2-(2-fluoropheny l)- 191 C9H6FN3O
2. Pyrido[3,2-d]pyrimidine-2,4(1H,3H)-dione, 1,3-dimeth yl- 191 C9H9N3O2
3. 9H-Fluorene-9-carbonitrile 191 C14H9N
4. 9H-Fluorene-2-carbonitrile 191 C14H9N
5. 4(1H)-Pteridinone, 2-amino-6,7-dimethyl- 191 C8H9N5O
6. Anthracene, 9-dodecyltetradecahydro- 360 C26H48

Sample file: >LJ270 Spectrum #: 3488
Search speed: 3 Tilting option: N No. of ion ranges searched: 287

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	64*	51306435	27793	NBS54K	66	70	2	0	59	23	28	45
2.	47*	24410251	27797	NBS54K	44	55	2	0	84	23	17	18
3.	43*	1529404	27814	NBS54K	26	69	2	0	84	23	17	14
4.	43*	2523480	27815	NBS54K	31	78	2	0	84	23	17	14
5.	43*	611552	27791	NBS54K	30	94	2	0	80	23	17	14
6.	42	55401757	27867	NBS54K	62	108	2	0	69	23	17	13

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 25.26 ug/mL

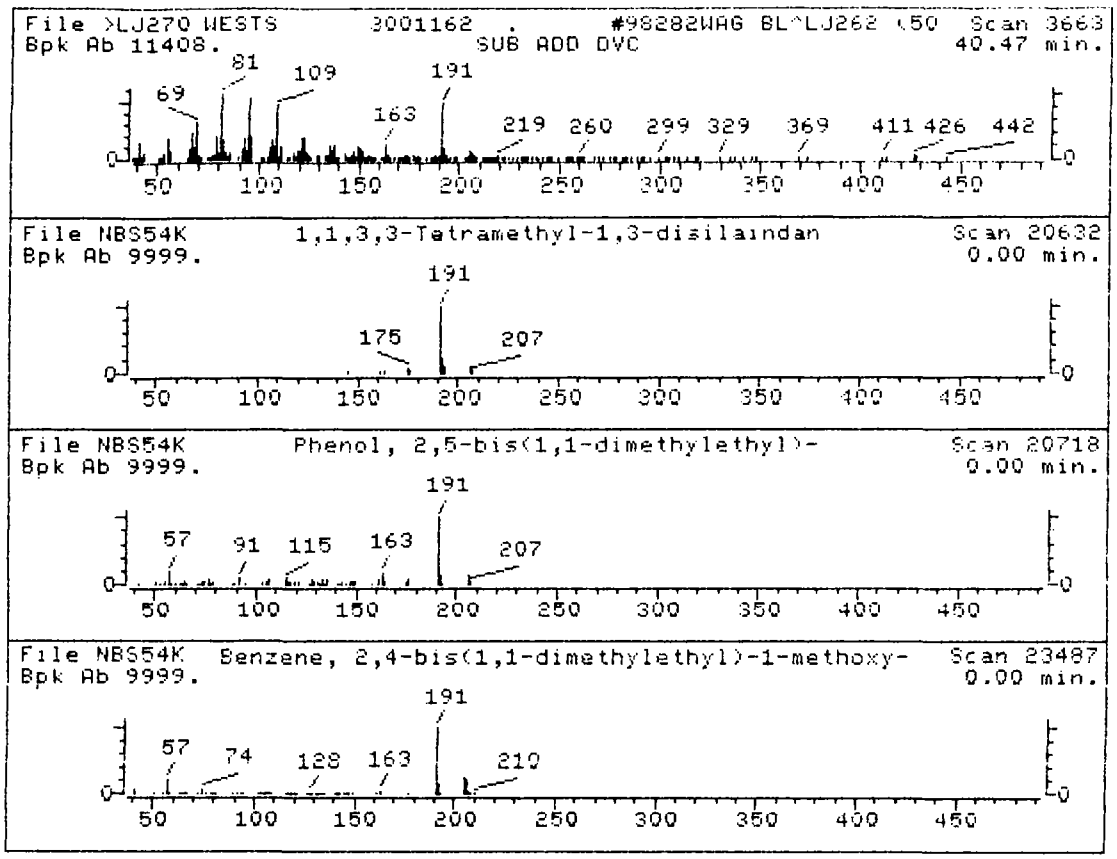


Unknown
TTB83
10/15/98

Sample file: >LJ270 Spectrum #: 3549

No data base entries were retrieved.

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 22.06 ug/mL



1. 1,1,3,3-Tetramethyl-1,3-disilaindan	206	C11H18Si2
2. Phenol, 2,5-bis(1,1-dimethylethyl)-	206	C14H22O
3. Benzene, 2,4-bis(1,1-dimethylethyl)-1-methoxy-	220	C15H24O
4. Phenol, 2,4-bis(1,1-dimethylethyl)-	206	C14H22O
5. 9H-Fluorene-9-carbonitrile	191	C14H9N
6. 4-Pyridinol, 3,5-dichloro-2,6-dimethyl-	191	C7H7Cl2NO

Sample file: >LJ270 Spectrum #: 3663
Search speed: 3 Tilting option: N No. of ion ranges searched: 270

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_1	R_10
1.	48*	54113938	27821	NBS54K	44	22	1	0	65	27	19	26
2.	43*	5875456	27824	NBS54K	42	72	1	0	57	27	19	21
3.	38	17177989	27840	NBS54K	35	74	0	0	57	27	14	15
4.	38*	96764	27829	NBS54K	28	80	1	0	64	27	14	15
5.	37*	1529404	27814	NBS54K	32	63	2	0	85	27	14	14
6.	37*	2971906	28136	NBS54K	38	77	2	0	85	27	14	14

Sample # 3001162 Injected 10/12/98 at 19:18 on Instrument # HP06754
Estimated Concentration: 21.69 ug/mL

Lancaster Laboratories
Quantitation Report-GC/MS Semi-Volatiles

LLI#:3001162DL

File: >LJ288 Injected at: 22:47 10/12/98 Calibration time: 21:46 10/12/98 Method: APPENDIX9
Sample: WESTSDL 3001162DL Instrument ID: HP06754 Matrix: WATER
Dilution factor: 50.0 Batch: 98282WAG Blank: ^LJ262
Standard Reference: ^LJ281 GPC Cleanup: No Volume injected: 1 ul
ID File : IDAPPL Sample Wt/Vol.: 500 mL Final Ext. Vol. : 5 mL

#	Internal Standards	R.T. (+/-RT)	Scan	Qion	Area(+/-%Area)	Conc(ext)	QC Flag	Conc Units = ng/ul
1.	1,4-Dichlorobenzene-d4	11.19(.0029)	774.	152	151034.(-6)	40.0		
28.	Naphthalene-d8	14.82(-.008)	1141.	136	554067.(-7)	40.0		
50.	Acenaphthene-d10	20.06(.0024)	1669.	164	292400.(-10)	40.0		
81.	Phenanthrene-d10	24.51(-.016)	2117.	188	519103.(-13)	40.0		
102.	Chrysene-d12	31.33(-.008)	2802.	240	416029.(-16)	40.0		
114.	Perylene-d12	35.02(-.010)	3171.	264	291883.(-13)	40.0		

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD AREA OUT OF RANGE NC = NOT ABLE TO CALCULATE--NO STANDARD.

#	Surrogate Standards	R.T. (+/-RRT)	Scan	Qion	Area	Conc(samp)	%Rec.	Q	QC Limits
7.	2-Fluorophenol	0.000(.0000)	0.	112	0.	0.00	0	D	25 - 88
10.	Phenol-d6	10.35(-.014)	689.	99.	141.	2.53	1	D	7 - 74 *
29.	Nitrobenzene-d5	0.000(.0000)	0.	82.	0.	0.00	0	D	47 - 114
55.	2-Fluorobiphenyl	0.000(.0000)	0.	172	0.	0.00	0	D	51 - 106
80.	2,4,6-Tribromophenol	0.000(.0000)	0.	330	0.	0.00	0	D	34 - 125
104.	Terphenyl-d14	0.000(.0000)	0.	244	0.	0.00	0	D	37 - 119

= RELATIVE RETENTION TIME OUT OF RANGE * = %REC OUT OF RANGE D = SURROGATES DILUTED OUT NC = COULD NOT CALCULATE

#	Target Compounds	R.T.(+/-RRT)	Scan	Qion	Area	Conc(ext)	Conc(samp)	Conc. Blank Q	MDL(ext)
21.	3- and 4-Methylphenol	12.35(.001)	891.	108	767171.	83.53	42000.		3.0

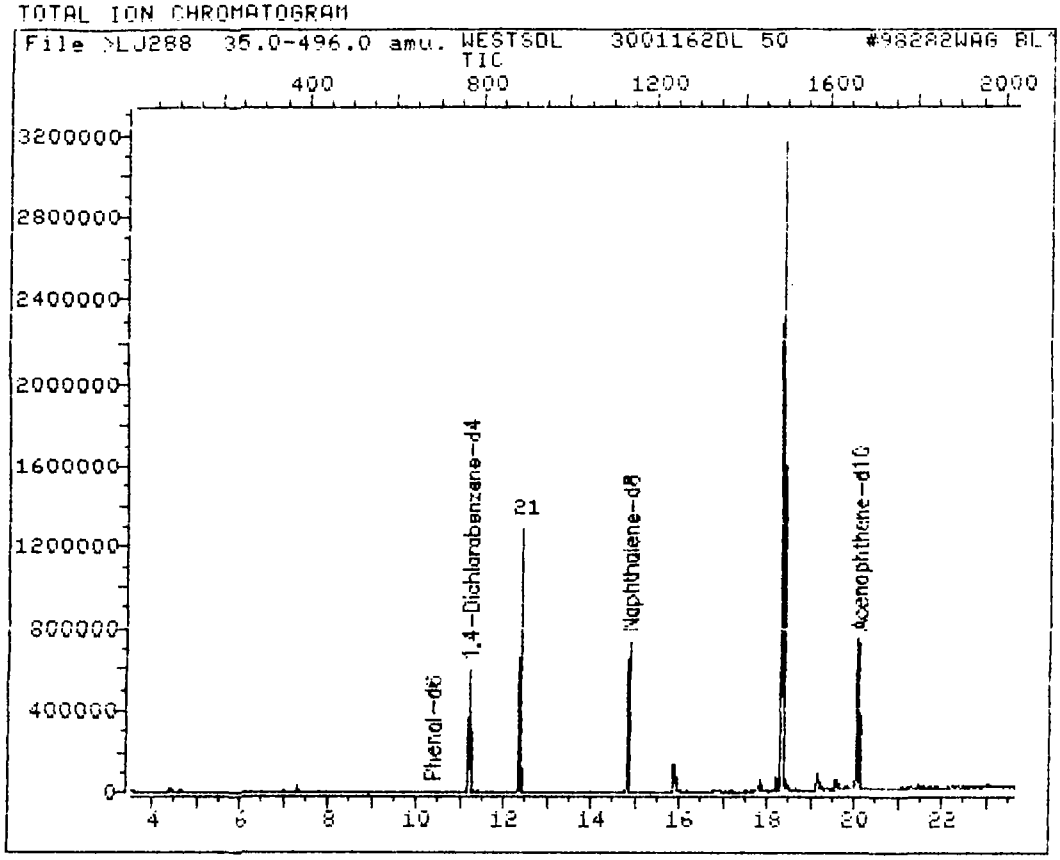
E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE NUMBER OF TARGETS = 1

Comments: * Phase [illegible] 10/15/98

Analyst: [illegible] Date: 10/13/98
Auditor: [illegible] Date: 10-15-98

PAGE 1 OF 1

TOTAL ION CHROMATOGRAM



Data File: >LJ288::A2 Quant Output File: ^LJ288::QF
Name: WESTSDL 3001162DL Instrument ID: HP06754
Misc: 50 #98282WAG BL^LJ262 (500,5)

Id File: IDAPPL::DB
Title: IDAPPL
Last Calibration: 981009 18:23 Last Qcal Time: 981012 21:46

Operator ID: DJE_526
Quant Time : 981012 23:59
Injected at: 981012 22:47

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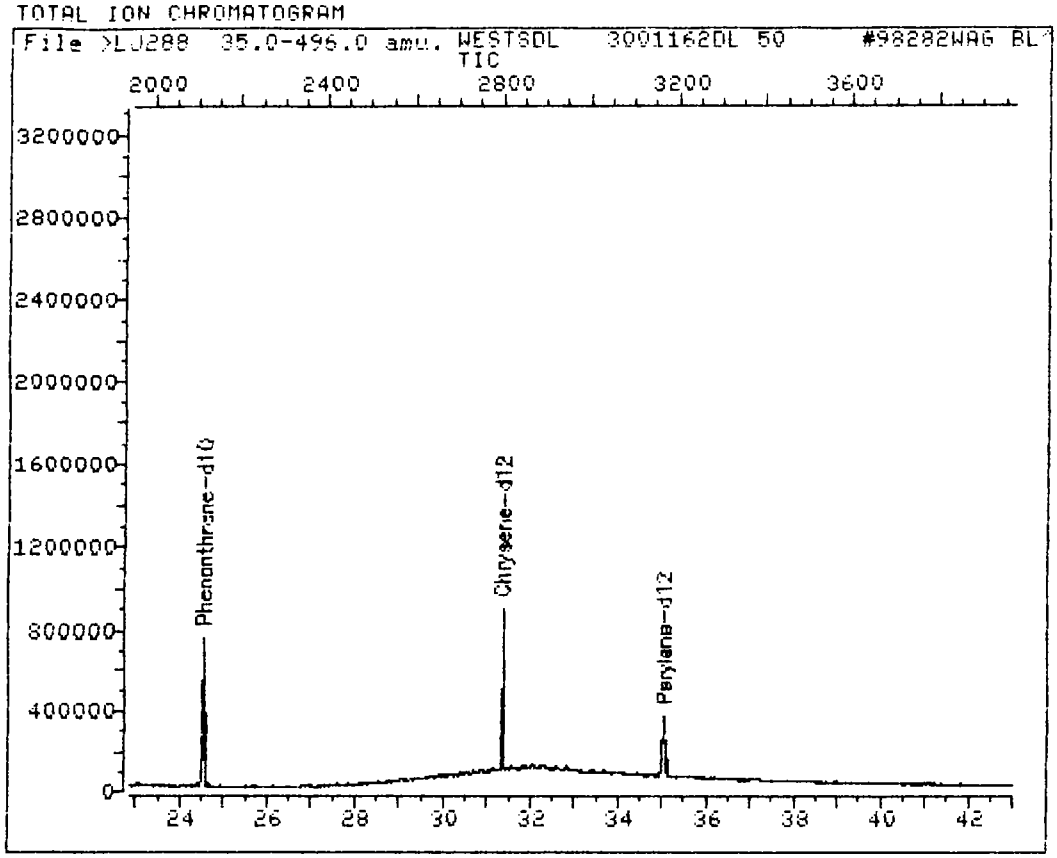
DJE/SL
10/13/98

TOTAL ION CHROMATOGRAM



Data File: >LJ288::A2 Quant Output File: ^LJ288::QF
Name: WESTSDL 3001162DL Instrument ID: HP06754
Misc: 50 #98282WAG BL^LJ262 (500,5)

Id File: IDAPPL::DB
Title: IDAPPL
Last Calibration: 981009 18:23 Last Qcal Time: 981012 21:46

Operator ID: DJE_526
Quant Time : 981012 23:59
Injected at: 981012 22:47

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DJE/526
10/13/98

QUANT REPORT

Operator ID: DJE_526 Quant Rev: 7 Quant Time: 981012 23:59
Output File: ^LJ288::QF Injected at: 981012 22:47
Data File: >LJ288::A2 Dilution Factor: 1.00000
Name: WESTSDL 3001162DL Instrument ID: HP06754
Misc: 50 #98282WAG BL^LJ262 (500,5)

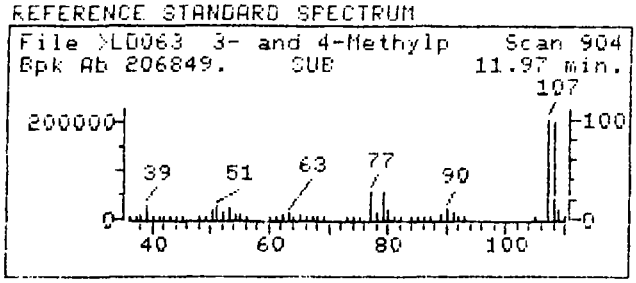
ID File: IDAPPL::DB
Title: IDAPPL
Last Calibration: 981009 18:23 Last Qcal Time: 981012 21:46

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	11.19	152.0	151034	40.00	ug/ul	100
10)	Phenol-d6	10.35	99.0	141	.0101	ug/ul	100*
21)	3- and 4-Methylphenol	12.35	108.0	767171	83.53	ug/ul	100
28)	*Naphthalene-d8	14.82	136.0	554067	40.00	ug/ul	100
50)	*Acenaphthene-d10	20.06	164.0	292400	40.00	ug/ul	97
81)	*Phenanthrene-d10	24.51	188.0	519103	40.00	ug/ul	54
102)	*Chrysene-d12	31.33	240.0	416029	40.00	ug/ul	93
114)	*Perylene-d12	35.02	264.0	291883	40.00	ug/ul	97

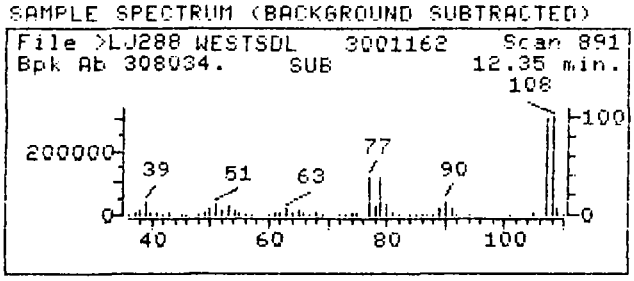
* Compound is ISTD

* False Positive 10/15/98

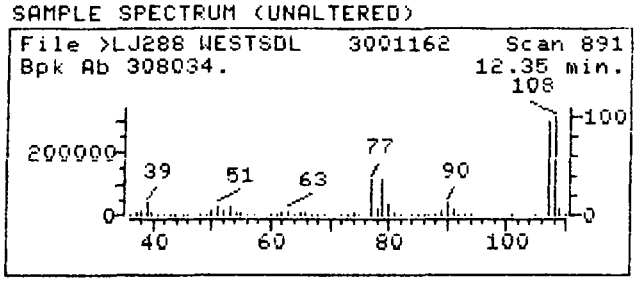
REFERENCE STANDARD SPECTRUM

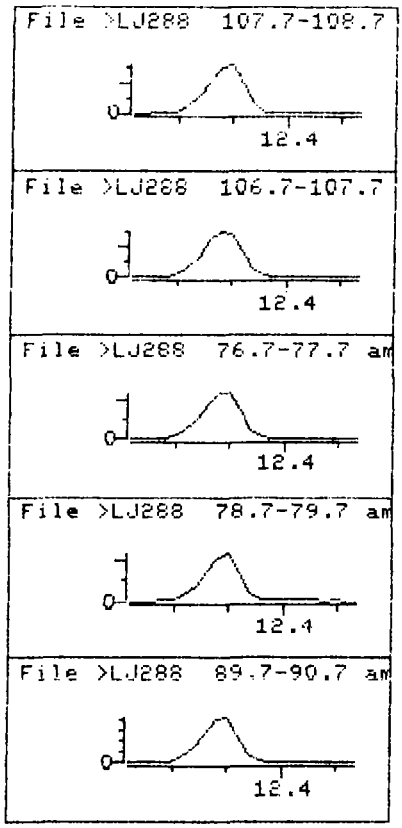


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





Data File: >LJ288::A2 Quant Output File: ^LJ288::QF
Name: WESTSDL 3001162DL Instrument ID: HP06754
Misc: 50 #98282WAG BL^LJ262 (500,5)
Quant Time: 981012 23:59 Quant ID File: IDAPPL::DB
Injected at: 981012 22:47 Last Calibration: 981009 18:23
Last Qcal Time: 981012 21:46

Compound No : 21
Compound Name : 3- and 4-Methylphenol
Scan Number : 891
Retention Time: 12.35 min.
Quant Ion : 108.0
Area : 767171
Concentration : 83.53 ug/ul
q-value : 100

DS 10/13/98

Lancaster Laboratories
Quantitation Report-GC/MS Semi-Volatiles

LLI#: 3001163

File: >LJ267 Injected at: 15:32 10/12/98 Calibration time: 09:56 10/12/98 Method: APPENDIX9
Sample: SOUTS 3001163 Instrument ID: HP06754 Matrix: WATER
Dilution factor: 10.0 Batch: 98282WAG Blank: ~LJ262
Standard Reference: ~LJ261 GPC Cleanup: No Volume injected: 1 ul
ID File : IDAPPL Sample Wt/Vol.: 500 mL Final Ext. Vol. : 25 mL

#	Internal Standards	R.T. (+/-RT)	Scan	Qion	Area(+/-%Area)	Conc(ext)	QC Flag	Conc Units = ng/ul
1.	1,4-Dichlorobenzene-d4	11.28(.0148)	783.	152	166122.(-5)	40.0		
28.	Naphthalene-d8	14.91(.0007)	1149.	136	599498.(-3)	40.0		
50.	Acenaphthene-d10	20.21(.0561)	1678.	164	326628.(-6)	40.0		
81.	Phenanthrene-d10	24.67(.0490)	2120.	188	586315.(-7)	40.0		
102.	Chrysene-d12	31.42(.0022)	2790.	240	506335.(-17)	40.0		
114.	Perylene-d12	35.16(.0037)	3164.	264	370538.(-14)	40.0		

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD AREA OUT OF RANGE NC = NOT ABLE TO CALCULATE--NO STANDARD.

#	Surrogate Standards	R.T. (+/-RRT)	Scan	Qion	Area	Conc(samp)	%Rec.	Q	QC Limits
7.	2-Fluorophenol	0.000(.0000)	0.	112	0.	0.00	0	D	25 - 88
10.	Phenol-d6	10.04(.0199)	658.	99.	148.	2.42	1	D	7 - 74 *
29.	Nitrobenzene-d5	12.84(-.001)	940.	82.	11085.	208.03	208	D	47 - 114 *
55.	2-Fluorobiphenyl	18.11(.0048)	1469.	172	134.	3.26	3	D	51 - 106 *
80.	2,4,6-Tribromophenol	0.000(.0000)	0.	330	0.	0.00	0	D	34 - 125
104.	Terphenyl-d14	0.000(.0000)	0.	244	0.	0.00	0	D	37 - 119

= RELATIVE RETENTION TIME OUT OF RANGE * = %REC OUT OF RANGE D = SURROGATES DILUTED OUT NC = COULD NOT CALCULATE

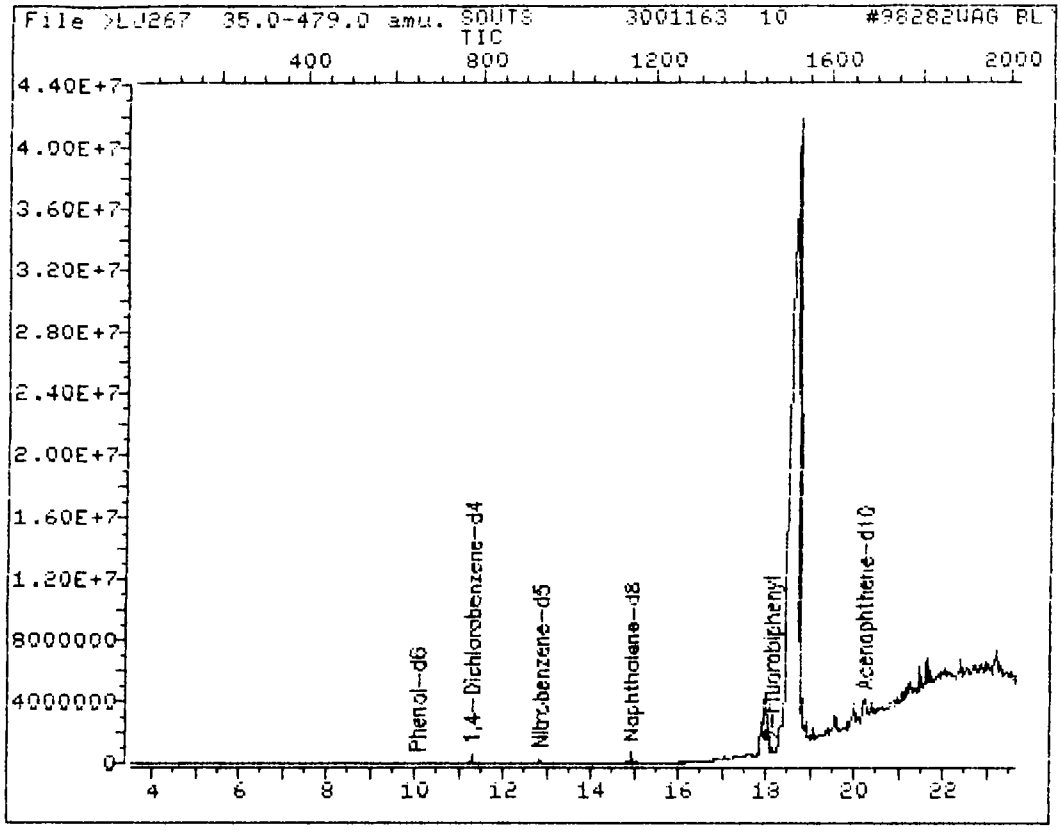
#	Target Compounds	R.T.(+/-RRT)	Scan	Qion	Area	Conc(ext)	Conc(samp)	Conc. Blank	Q	MDL(ext)

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE NUMBER OF TARGETS = 0

Comments: [illegible] * FALSE Positive DE 10/15/98

Analyst: [illegible] Date: [illegible]
Auditor: [illegible] Date: 10/15/98

TOTAL ION CHROMATOGRAM



Data File: >LJ267::A2 Quant Output File: ^LJ267::QF
Name: SOUTS 3001163 Instrument ID: HP06754
Misc: 10 #98282WAG BL^LJ262 (500,25)

Id File: IDAPPL::DB
Title: IDAPPL
Last Calibration: 981009 18:23 Last Qcal Time: 981012 09:56

Operator ID: DJE_526
Quant Time : 981012 16:28
Injected at: 981012 15:32

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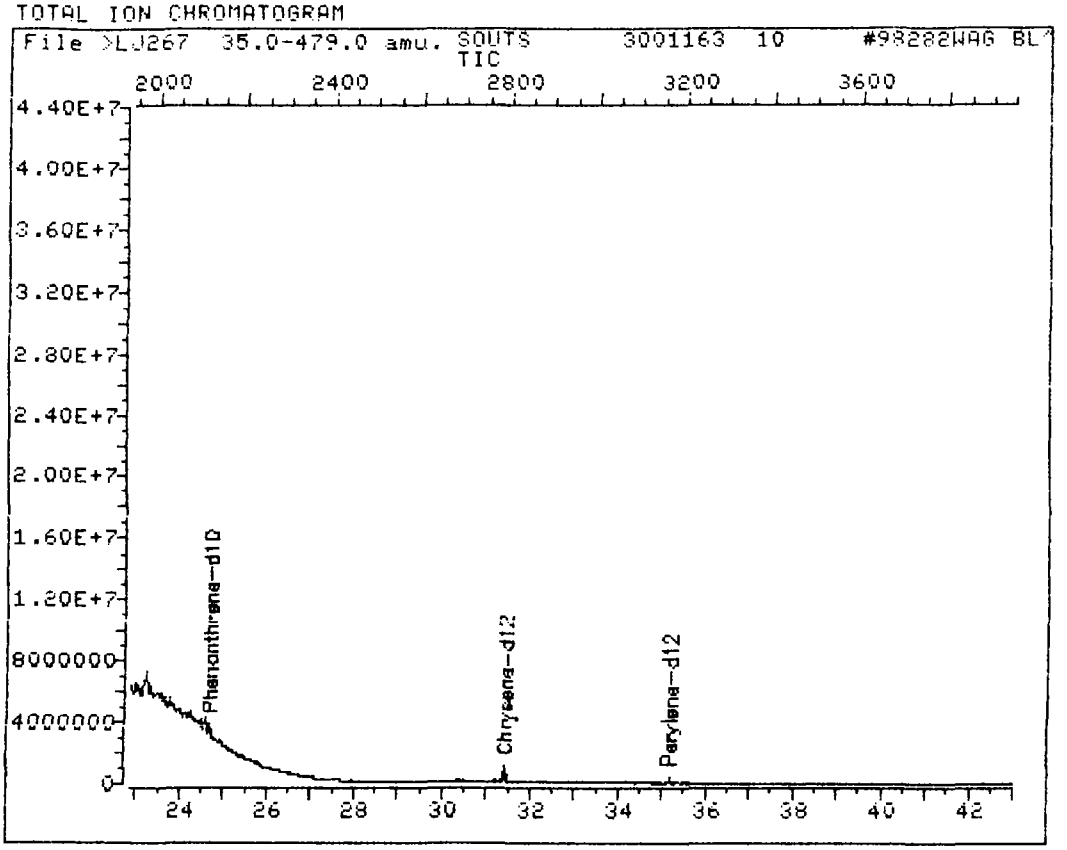
DJE 526
10/12/98

TOTAL ION CHROMATOGRAM



Data File: >LJ267::A2 Quant Output File: ^LJ267::QF
Name: SOUTS 3001163 Instrument ID: HP06754
Misc: 10 #98282WAG BL^LJ262 (500,25)

Id File: IDAPPL::DB
Title: IDAPPL
Last Calibration: 981009 18:23 Last Qcal Time: 981012 09:56

Operator ID: DJE_526
Quant Time : 981012 16:28
Injected at: 981012 15:32

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DJE/526
10/12/98

QUANT REPORT

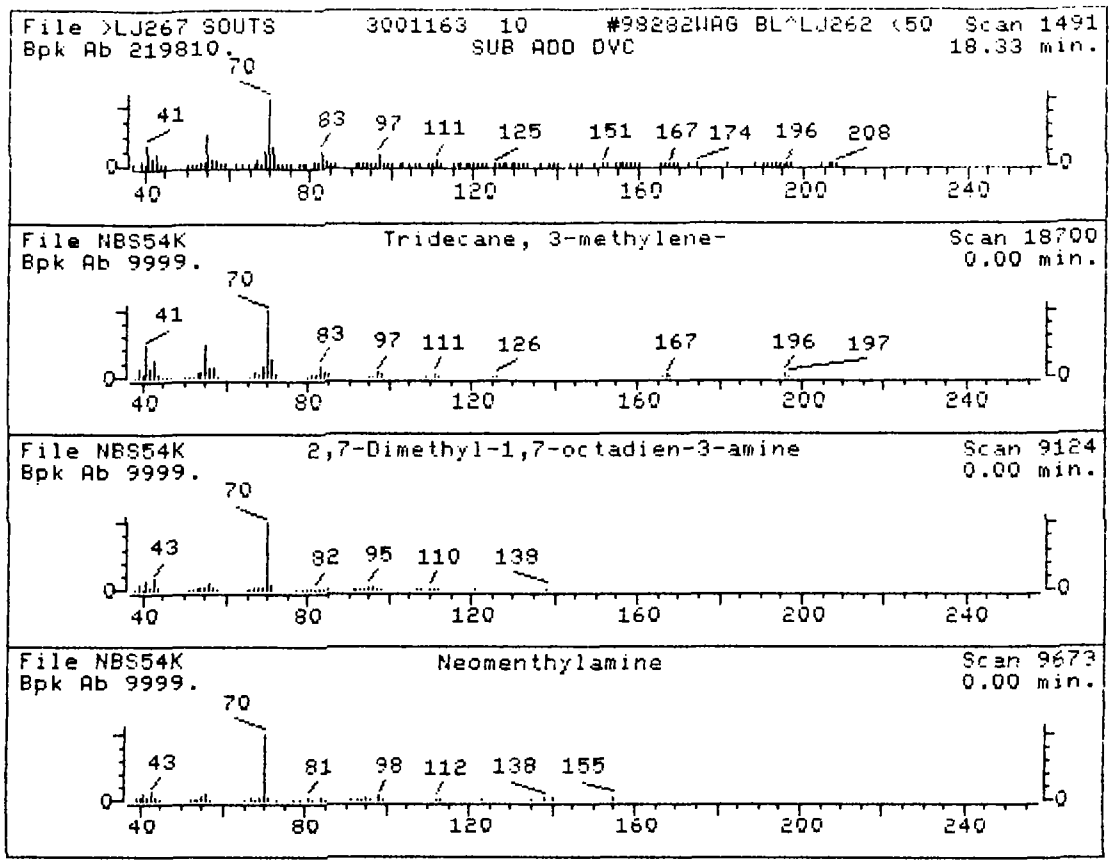
Operator ID: DJE_526 Quant Rev: 7 Quant Time: 981012 16:28
Output File: ^LJ267::QF Injected at: 981012 15:32
Data File: >LJ267::A2 Dilution Factor: 1.00000
Name: SOUTS 3001163 Instrument ID: HP06754
Misc: 10 #98282WAG BL^LJ262 (500,25)

ID File: IDAPPL::DB
Title: IDAPPL
Last Calibration: 981009 18:23 Last Qcal Time: 981012 09:56

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	11.28	152.0	166122	40.00	ug/ul	100
10)	Phenol-d6	10.04	99.0	148	.00967	ug/ul	100 *
28)	*Naphthalene-d8	14.91	136.0	599498	40.00	ug/ul	100
29)	Nitrobenzene-d5	12.84	82.0	11085	.832	ug/ul	100 *
50)	*Acenaphthene-d10	20.21	164.0	326628	40.00	ug/ul	93
55)	2-Fluorobiphenyl	18.11	172.0	134	.0130	ug/ul	100 *
81)	*Phenanthrene-d10	24.67	188.0	586315	40.00	ug/ul	80
102)	*Chrysene-d12	31.42	240.0	506335	40.00	ug/ul	95
114)	*Perylene-d12	35.16	264.0	370538	40.00	ug/ul	98

* Compound is ISTD

* False Positive DJE 10/15/98



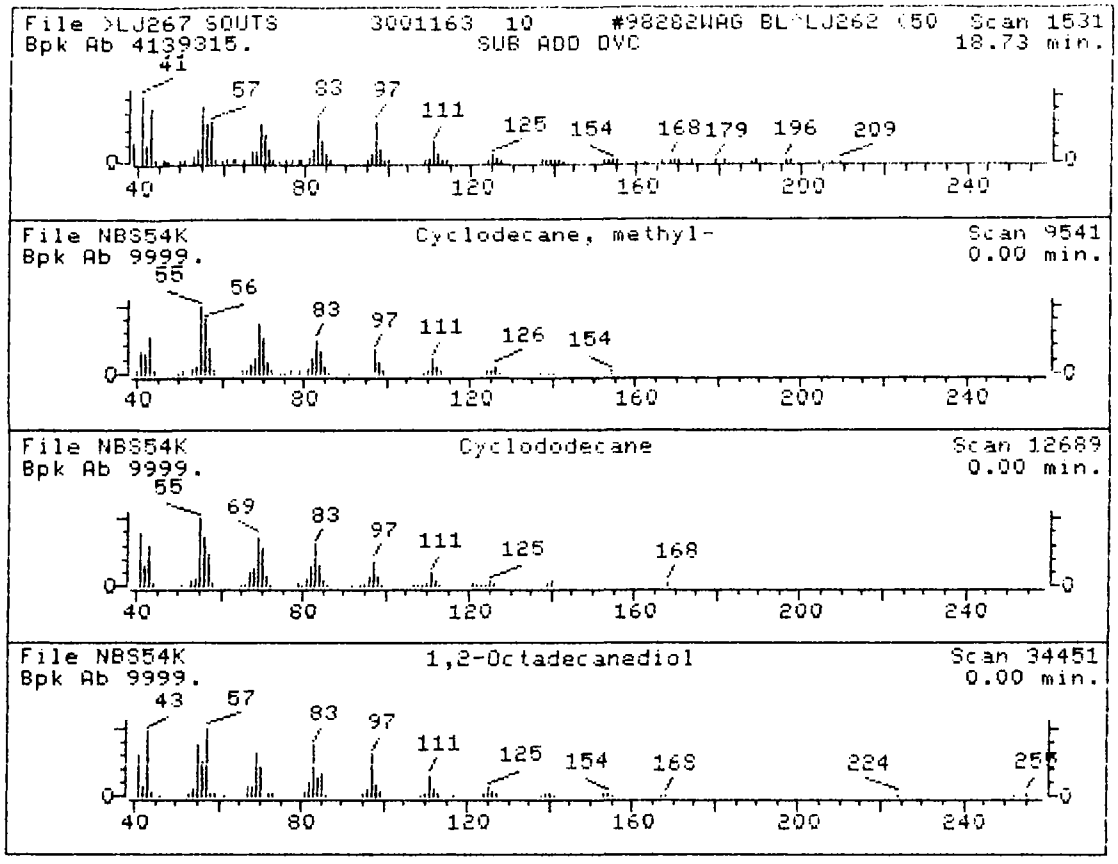
DE 10/14/98

1.	Tridecane, 3-methylene-	196	C14H28
2.	2,7-Dimethyl-1,7-octadien-3-amine	153	C10H19N
3.	Neomenthylamine	155	C10H21N
4.	2-CYCLOHEXYLIMINO-1,1-DICHLORO-3-METHYLBUTANE	235	C11H19Cl2N
5.	Butanoic acid, 3-methyl-, 3-methylbutyl ester	172	C10H20O2
6.	Butanoic acid, 2-methyl-, 2-methylbutyl ester	172	C10H20O2

Sample file: >LJ267 Spectrum #: 1491
Search speed: 3 Tilting option: N No. of ion ranges searched: 60

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	63*	19780348	4395	NBS54K	39	72	0	0	70	19	30	38
2.	46	77984577	4241	NBS54K	33	45	0	0	82	21	17	17
3.	44	7231405	4270	NBS54K	45	40	2	0	100	21	17	15
4.	43*	26174	4419	NBS54K	28	37	2	0	100	21	17	14
5.	43*	659701	4359	NBS54K	32	65	2	0	91	21	17	14
6.	43*	2445785	4357	NBS54K	29	76	2	0	100	21	17	14

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06754
Estimated Concentration: 182.91 ug/mL



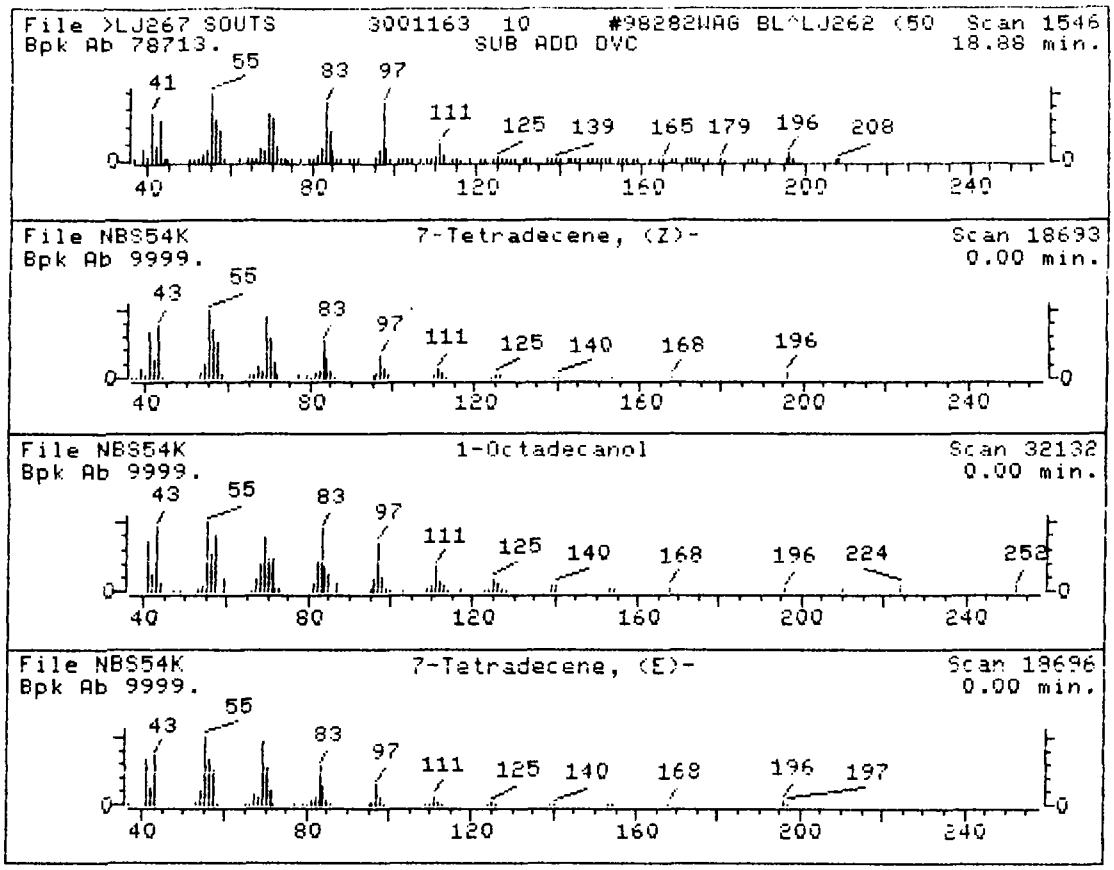
UNKNOWN
DG 10/14/98

1.	Cyclodecane, methyl-	154	C11H22
2.	Cyclododecane	168	C12H24
3.	1,2-Octadecanediol	286	C18H38O2
4.	1-Octadecanol	270	C18H38O
5.	3-Tetradecene, (Z)-	196	C14H28
6.	Octadecanol	270	C18H38O

Sample file: >LJ267 Spectrum #: 1531
Search speed: 3 Tilting option: N No. of ion ranges searched: 172

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	87*	13151434	4261	NBS54K	70	49	0	0	70	33	40	89
2.	85*	294622	4338	NBS54K	76	44	0	0	57	44	43	93
3.	83	20294762	9826	NBS54K	99	61	3	0	85	2	57	23
4.	83	112925	9812	NBS54K	103	67	3	0	70	2	57	24
5.	82*	41446677	4390	NBS54K	71	67	0	0	70	44	33	89
6.	78	26762447	9813	NBS54K	73	103	3	0	63	4	55	13

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06/54
Estimated Concentration: 13780.48 ug/mL



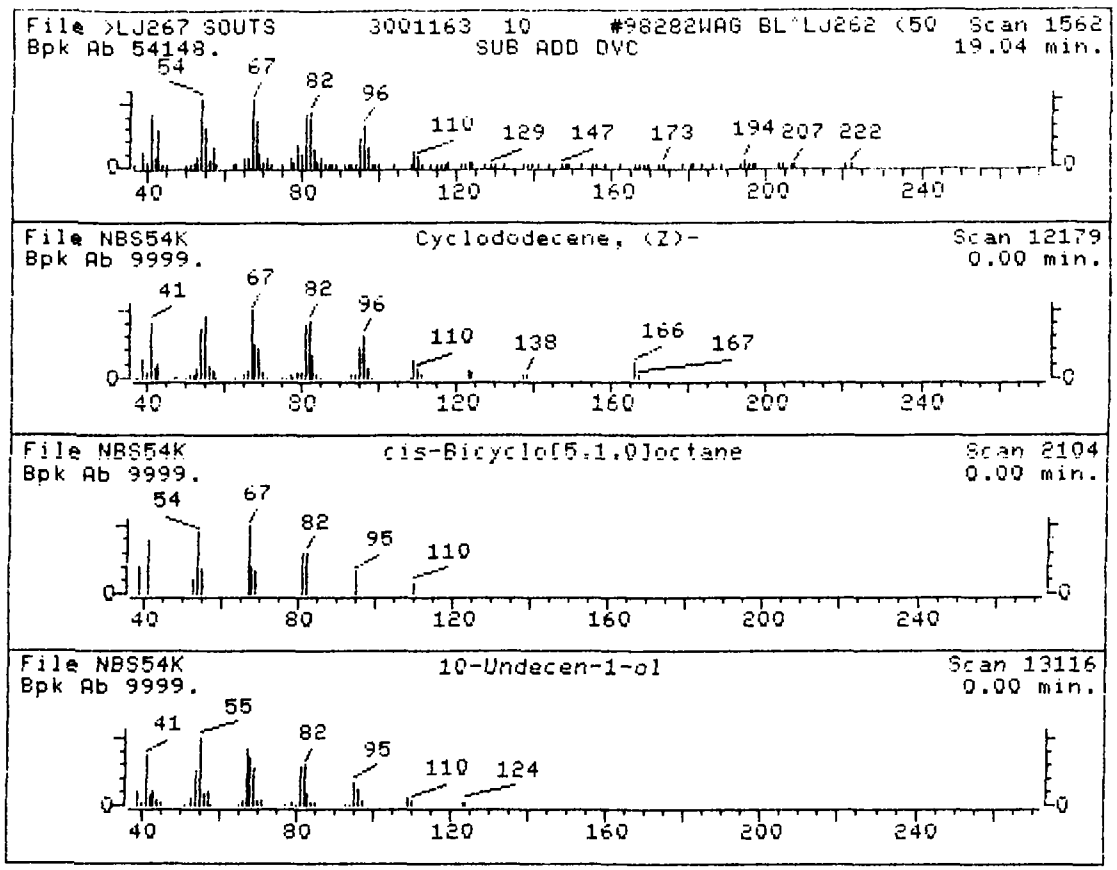
UNKNOWN
DS 10/14/98

1. 7-Tetradecene, (Z)-	196	C14H28
2. 1-Octadecanol	270	C18H38O
3. 7-Tetradecene, (E)-	196	C14H28
4. 3-Tetradecene, (Z)-	196	C14H28
5. 5-Tetradecene, (E)-	196	C14H28
6. Cyclotetradecane	196	C14H28

Sample file: >LJ267 Spectrum #: 1546
Search speed: 3 Tilting option: N No. of ion ranges searched: 70

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	85*	41446600	4392	NBS54K	76	60	0	0	78	43	43	93
2.	78	112925	9812	NBS54K	70	100	3	0	89	5	55	12
3.	73*	41446633	4394	NBS54K	67	68	0	0	78	43	33	80
4.	68*	41446677	4390	NBS54K	77	61	0	0	71	53	35	93
5.	66*	41446666	4389	NBS54K	61	69	0	0	93	44	24	73
6.	64*	295170	9745	NBS54K	83	65	3	0	92	21	28	49

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06754
Estimated Concentration: 54.84 ug/mL



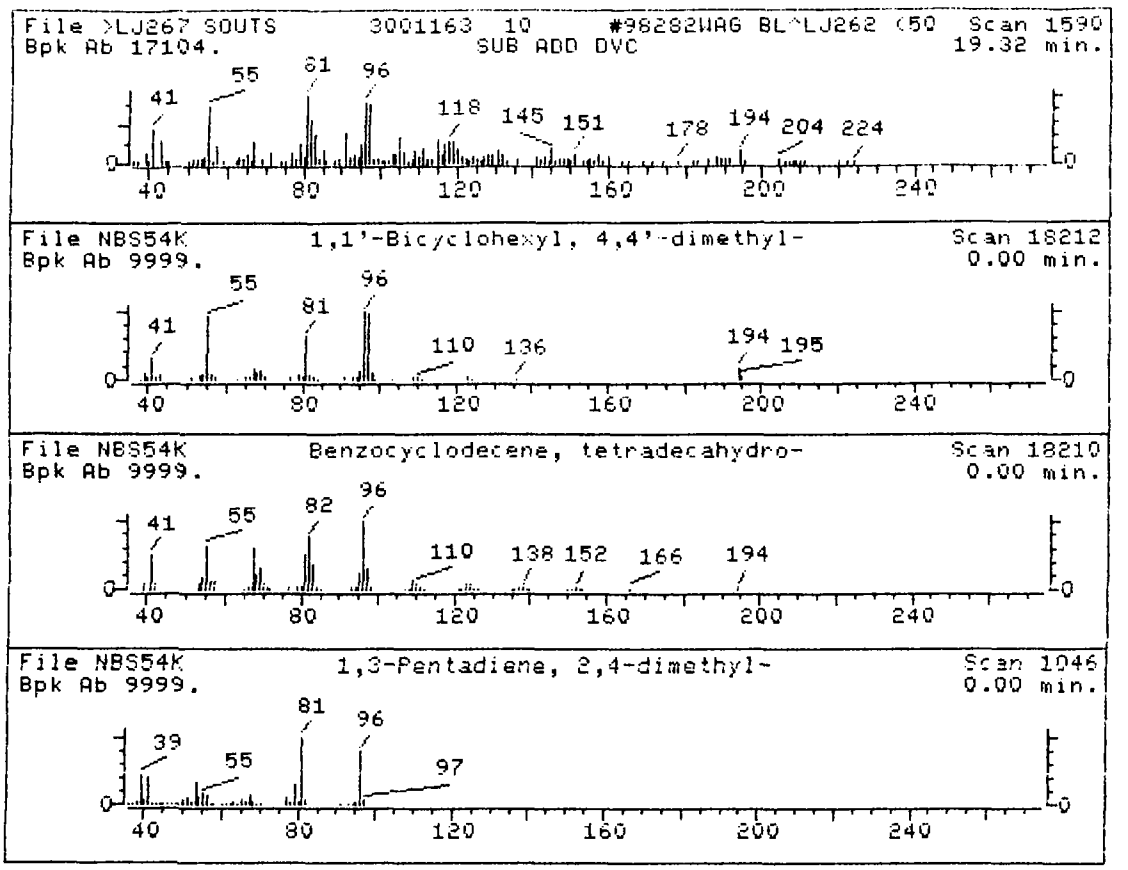
UNKNOWN
DG 10/14/98

1.	Cyclododecene, (Z)-	166	C12H22
2.	cis-Bicyclo[5.1.0]octane	110	C8H14
3.	10-Undecen-1-ol	170	C11H22O
4.	5-Dodecyne	166	C12H22
5.	Cycloheptene	96	C7H12
6.	Oxacycloheptadec-8-en-2-one	252	C16H28O2

Sample file: >LJ267 Spectrum #: 1562
Search speed: 3 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	60	1129891	6324	NBS54K	77	52	2	0	80	12	30	19
2.	58*	16526902	852	NBS54K	59	37	3	0	98	18	25	28
3.	52	112436	6333	NBS54K	53	61	1	0	99	19	20	12
4.	52*	19780122	967	NBS54K	55	65	2	0	79	30	24	32
5.	50*	628922	813	NBS54K	67	50	3	0	91	32	20	34
6.	44	123693	9512	NBS54K	82	92	2	0	59	28	19	22

Sample # 3001163 Injected 10/12/98 at 15:32 on instrument # HP06/54
Estimated Concentration: 33.84 ug/mL



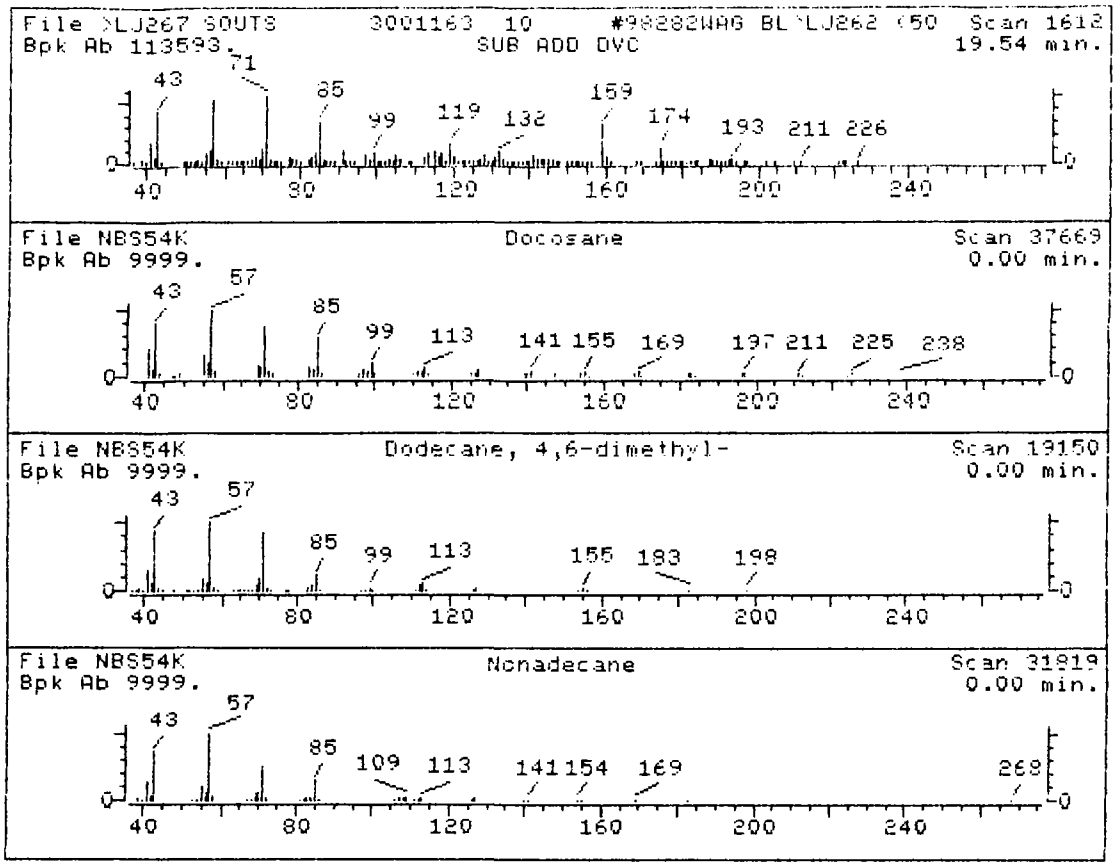
UNKNOWN
DB 10/14/98

1. 1,1'-Bicyclohexyl, 4,4'-dimethyl-	194	C14H26
2. Benzocyclodecene, tetradecahydro-	194	C14H26
3. 1,3-Pentadiene, 2,4-dimethyl-	96	C7H12
4. (R)-(-)-14-Methyl-8-hexadecyn-1-ol	252	C17H32O
5. 3-Hexyne, 2-methyl-	96	C7H12
6. 9-Octadecyne	250	C18H34

Sample file: >LJ267 Spectrum #: 1590
Search speed: 3 Tilting option: N No. of ion ranges searched: 131

	Prob.	CAS #	CON #	RDOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	31*	54823993	9739	NBS54K	36	77	2	0	89	35	12	14
2.	25*	61142061	9489	NBS54K	47	77	3	0	84	45	8	13
3.	25*	1000868	9382	NBS54K	32	77	3	0	100	50	7	13
4.	25*	64566183	9514	NBS54K	38	134	3	0	96	46	7	13
5.	20*	1010	9376	NBS54K	33	42	3	0	78	52	5	14
6.	20*	35365594	6413	NBS54K	38	118	3	0	99	54	5	13

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HPU6/94
Estimated Concentration: 24.74 ug/mL



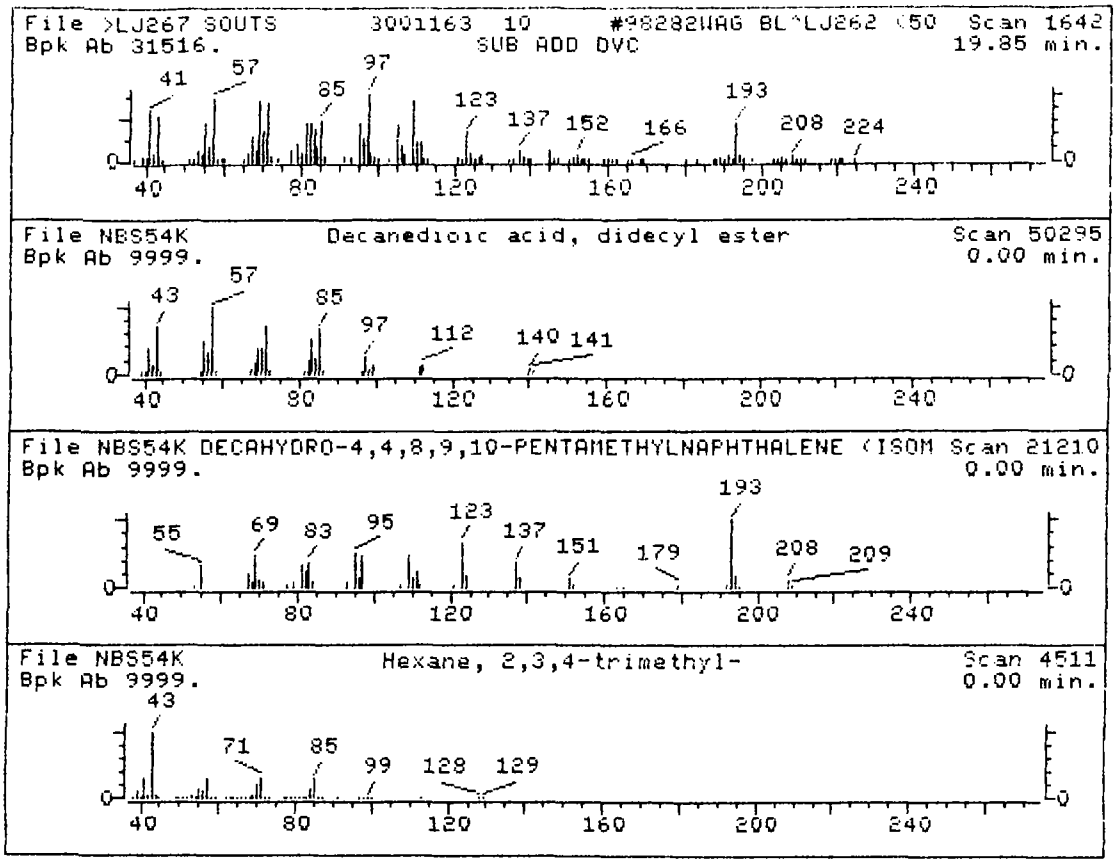
UNKNOWN ALKANE
DGT 10/14/98

1.	Docosane	310	C22H46
2.	Dodecane, 4,6-dimethyl-	198	C14H30
3.	Nonadecane	268	C19H40
4.	Pentane, 2,3,3-trimethyl-	114	C8H18
5.	3-Octen-2-ol, 2-methyl-, (Z)-	142	C9H18O
6.	Hexane, 3,3-dimethyl-	114	C8H18

Sample file: >LJ267 Spectrum #: 1612
Search speed: 3 Tilting option: N No. of ion ranges searched: 111

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	31	629970	7228	NBS54K	78	71	2	0	92	42	8	19
2.	31*	61141728	4619	NBS54K	55	55	0	0	86	60	8	66
3.	28*	629925	7205	NBS54K	53	64	3	0	196	44	8	16
4.	25	560214	6891	NBS54K	41	47	2	0	188	46	7	13
5.	25*	18521078	15827	NBS54K	26	80	2	0	81	46	7	14
6.	25	563166	6894	NBS54K	54	36	3	0	172	46	7	14

Sample # 3001163 Injected 10/12/98 at 19:32 on Instrument # HP06/54
Estimated Concentration: 165.53 ug/mL



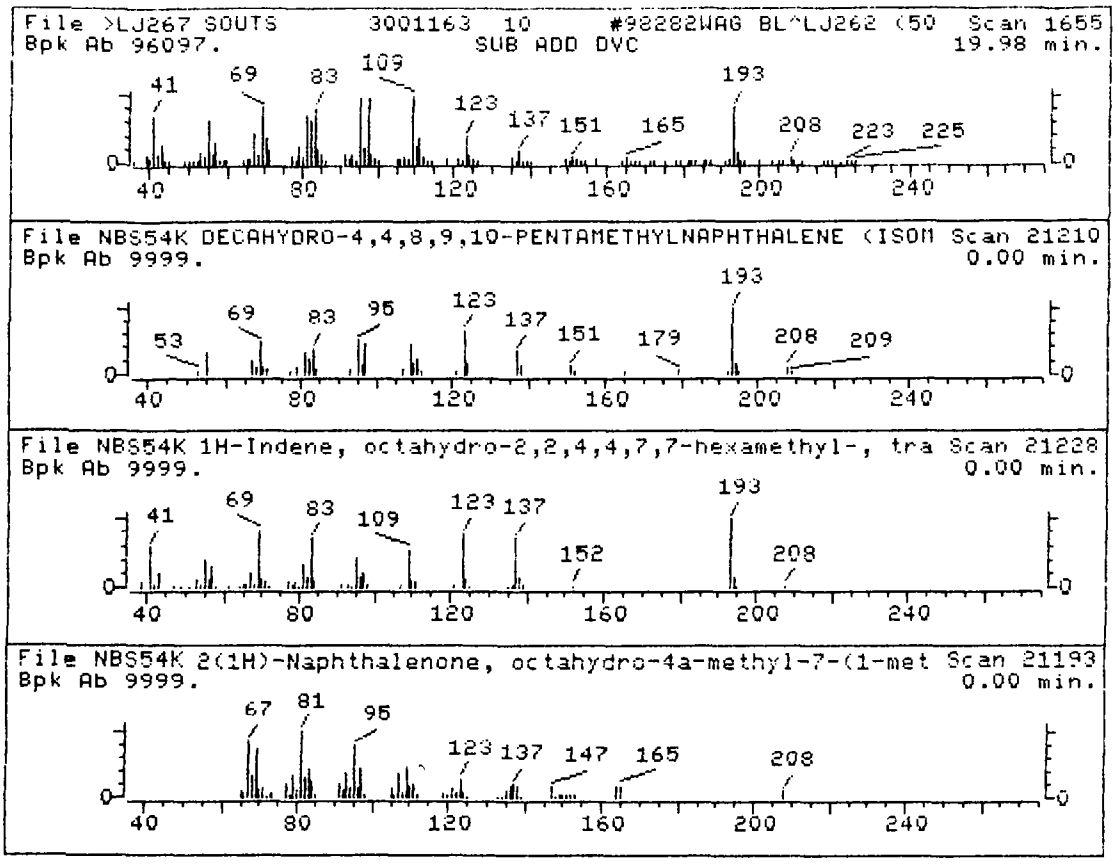
UNKNOWN
DE 10/14/98

1. Decanedioic acid, didecyl ester 482 C30H58O4
2. DECAHYDRO-4,4,8,9,10-PENTAMETHYLNAPHTHALENE (ISOMER 208 C15H28
3. Hexane, 2,3,4-trimethyl- 128 C9H20

Sample file: >LJ267 Spectrum #: 1642
Search speed: 3 Tilting option: N No. of ion ranges searched: 61

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	15	2432895	7259	NBS54K	80	90	3	0	93	58	3	14
2.	15*	21210	28218	NBS54K	61	72	0	0	45	69	5	73
3.	12*	921471	6935	NBS54K	48	42	2	0	195	64	2	28

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06754
Estimated Concentration: 39.37 ug/mL



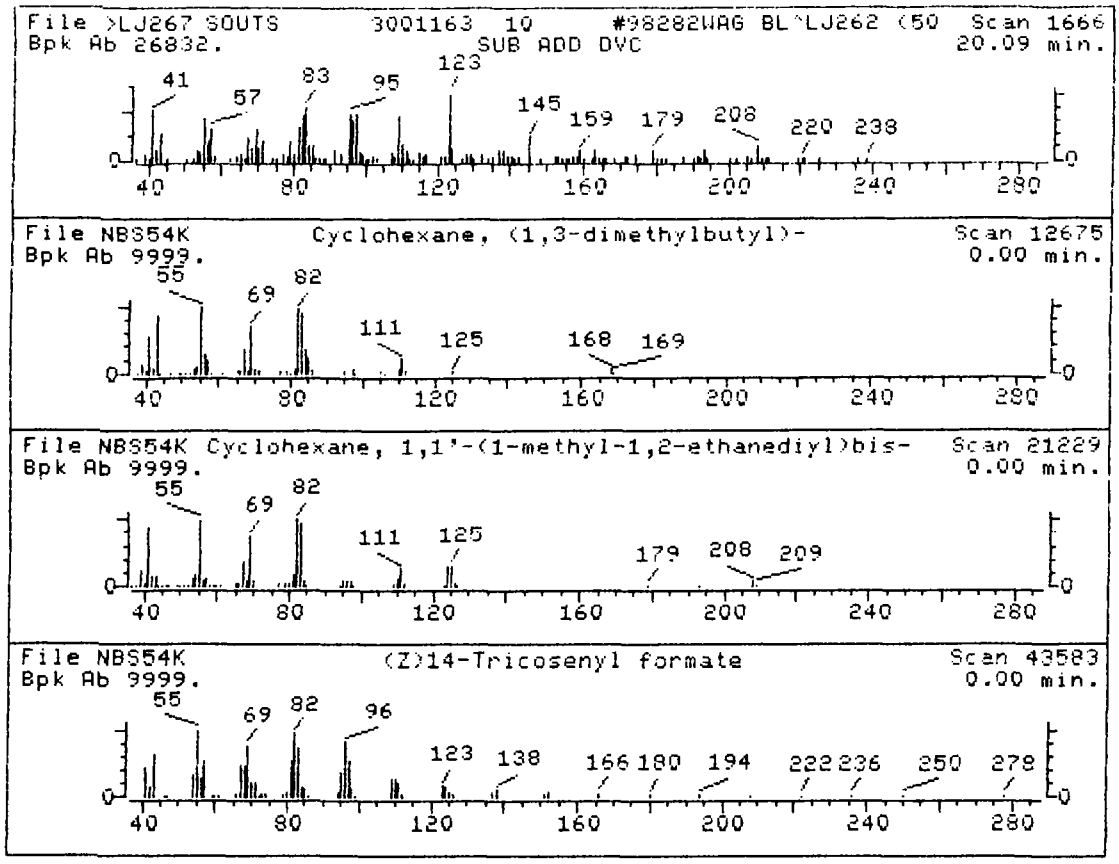
UNKNOWN
DE 10/14/98

1. DECAHYDRO-4,4,8,9,10-PENTAMETHYLNAPHTHALENE (ISOMER 208 C15H28
2. 1H-Indene, octahydro-2,2,4,4,7,7-hexamethyl-, trans- 208 C15H28
3. 2(1H)-Naphthalenone, octahydro-4a-methyl-7-(1-methyl ethyl)-, (4a.alpha.,7.beta.,8a.beta.)- 208 C14H24O

Sample file: >LJ267 Spectrum #: 1655
Search speed: 3 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	18*	21210	28218	NBS54K	50	101	2	0	62	60	4	23
2.	15*	54832836	28219	NBS54K	42	100	3	0	82	58	3	13
3.	11*	54594422	31155	NBS54K	32	126	3	0	52	65	2	13

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06754
Estimated Concentration: 136.15 ug/mL



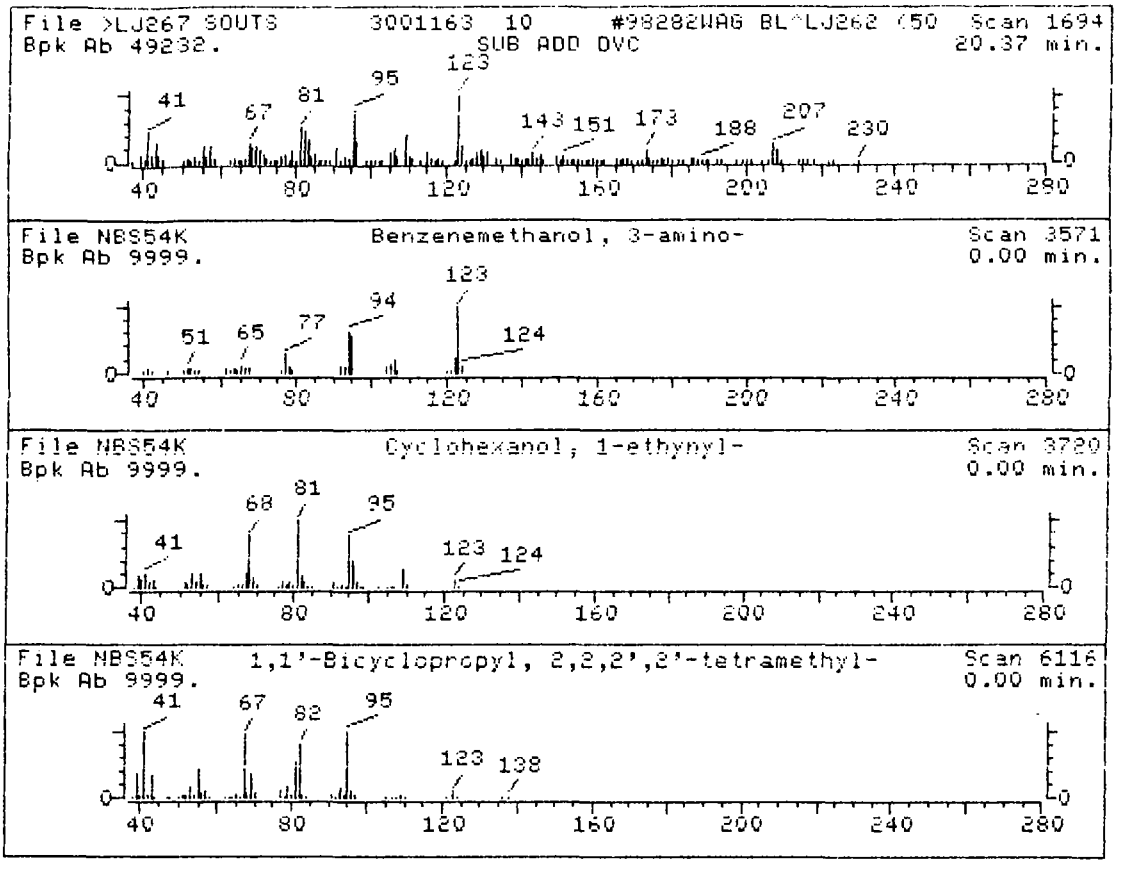
UNKNOWN
DB 10/14/98

1.	Cyclohexane, (1,3-dimethylbutyl)-	168	C12H24
2.	Cyclohexane, 1,1'-(1-methyl-1,2-ethanediyl)bis-	208	C15H28
3.	(Z)14-Tricosenyl formate	366	C24H46O2
4.	Cyclohexane, (3-cyclopentylpropyl)-	194	C14H26
5.	Decanenitrile	153	C10H19N
6.	4-.ALPHA.H,5-.ALPHA.H EUDESMANE	208	C15H28

Sample file: >LJ267 Spectrum #: 1666
Search speed: 3 Tilting option: N No. of ion ranges searched: 144

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	40*	61142196	6326	NBS54K	87	25	0	0	63	67	11	95
2.	26*	41851347	6377	NBS54K	59	76	1	0	57	60	7	53
3.	20	77899106	9532	NBS54K	61	133	2	0	62	54	5	12
4.	15	2883070	28433	NBS54K	60	67	1	0	59	60	3	18
5.	15*	1975786	15025	NBS54K	31	82	2	0	47	57	3	14
6.	15*	21209	31166	NBS54K	45	116	2	0	51	57	3	15

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06754
Estimated Concentration: 43.25 ug/mL



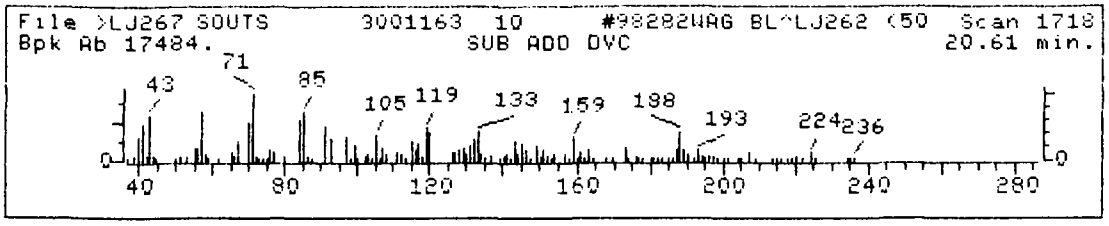
UNKNOWN
DB 10/14/98

1.	Benzenemethanol, 3-amino-	123	C7H9NO
2.	Cyclohexanol, 1-ethynyl-	124	C8H12O
3.	1,1'-Bicyclopropyl, 2,2,2',2'-tetramethyl-	138	C10H18
4.	TRIFLUOROACETYL-ISOMENTHOL	252	C12H19F3O2
5.	Naphthalene, 2-(1,1-dimethylethyl)decahydro-4a-methy	208	C15H28
6.	1-Butanone, 4-chloro-1-(4-fluorophenyl)-	200	C10H10ClFO

Sample file: >LJ267 Spectrum #: 1694
Search speed: 3 Tilting option: N No. of ion ranges searched: 136

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_1	R_IV
1.	25*	1877776	14801	NBS54K	33	81	3	0	100	46	7	13
2.	20*	78273	3785	NBS54K	23	91	3	0	101	55	5	12
3.	18*	68998209	6246	NBS54K	42	68	1	0	62	60	4	21
4.	18*	29088	18332	NBS54K	49	120	2	0	53	60	4	22
5.	15*	54934962	18013	NBS54K	46	83	3	0	69	60	3	13
6.	15*	3874542	14888	NBS54K	25	86	2	0	100	60	3	14

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06754
Estimated Concentration: 59.36 ug/mL

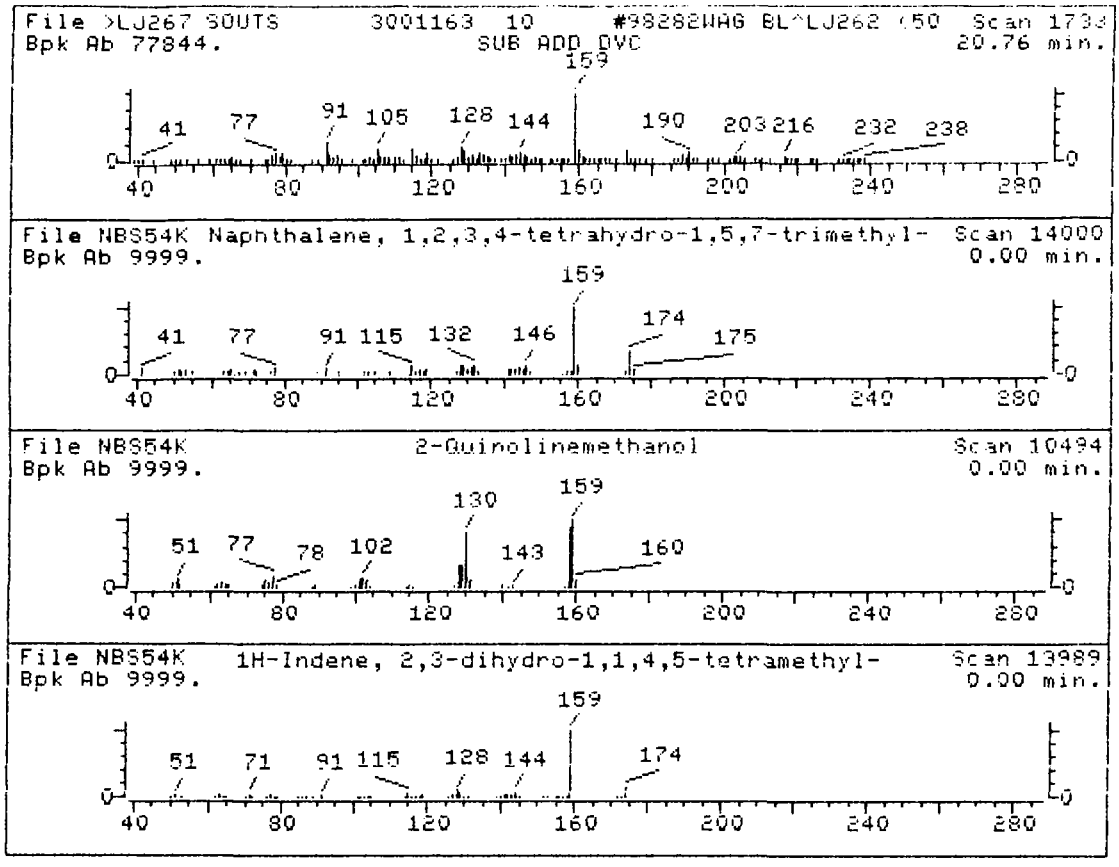


UNKNOWN
DE 10/14/98

Sample file: >LJ267 Spectrum #: 1718

No data base entries were retrieved.

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06754
Estimated Concentration: 18.59 ug/mL



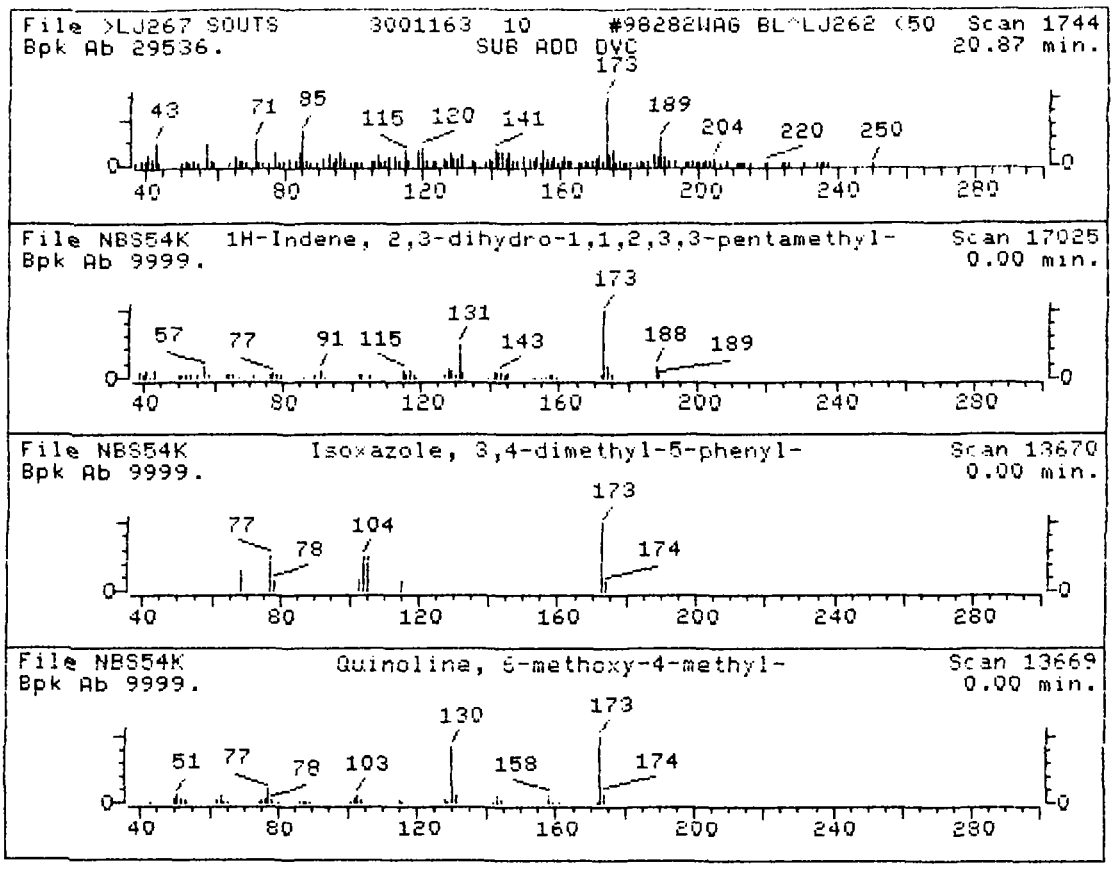
UNKNOWN
DE 10/14/98

1. Naphthalene, 1,2,3,4-tetrahydro-1,5,7-trimethyl- 174 C13H18
2. 2-Quinolinemethanol 159 C10H9NO
3. 1H-Indene, 2,3-dihydro-1,1,4,5-tetramethyl- 174 C13H18
4. 1H-Indene, 2,3-dihydro-1,1,4,7-tetramethyl- 174 C13H18
5. Indan, 1,1,6,7-tetramethyl- 174 C13H18
6. 1H-Indene, 2,3-dihydro-1,1,4,6-tetramethyl- 174 C13H18

Sample file: >LJ267 Spectrum #: 1733
Search speed: 3 Tilting option: N No. of ion ranges searched: 51

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	33	21693550	22207	NBS54K	76	39	2	0	100	40	10	19
2.	30*	1780172	22165	NBS54K	28	91	3	0	100	33	12	13
3.	30	16204572	22201	NBS54K	47	46	1	0	100	40	10	16
4.	28	1078042	22200	NBS54K	44	51	1	0	100	40	10	14
5.	28	16204583	22203	NBS54K	42	51	1	0	100	40	10	14
6.	28	941606	22202	NBS54K	42	51	1	0	100	40	10	14

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06754
Estimated Concentration: 50.23 ug/mL



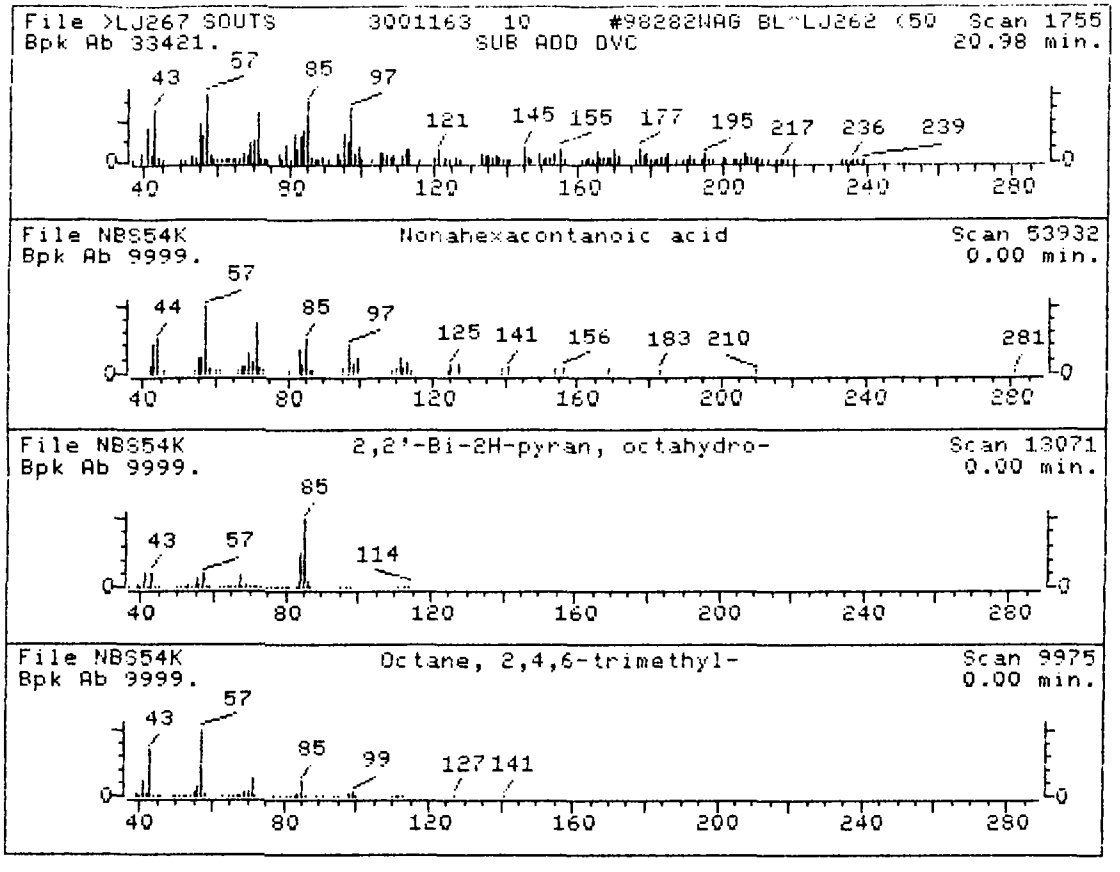
UNKNOWN
DB 10/14/98

1.	1H-Indene, 2,3-dihydro-1,1,2,3,3-pentamethyl-	188	C14H20
2.	Isoxazole, 3,4-dimethyl-5-phenyl-	173	C11H11NO
3.	Quinoline, 6-methoxy-4-methyl-	173	C11H11NO
4.	Oxazole, 2,5-dimethyl-4-phenyl-	173	C11H11NO
5.	SEC-BUTYL(TRIMETHYLSILYL) SUCCINATE	246	C11H22O4Si
6.	2-Quinolinecarboxaldehyde, 8-hydroxy-	173	C10H7NO2

Sample file: >LJ267 Spectrum #: 1744
Search speed: 3 Tilting option: N No. of ion ranges searched: 72

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	20*	1203174	24766	NBS54K	43	78	2	0	67	53	5	14
2.	15*	37503187	24741	NBS54K	23	49	3	0	100	59	3	12
3.	15*	41037267	24740	NBS54K	39	76	2	0	97	59	3	14
4.	15*	20662924	24738	NBS54K	36	79	2	0	94	59	3	14
5.	15*	27979	25236	NBS54K	47	94	3	0	100	56	3	13
6.	15*	14510066	24730	NBS54K	37	85	2	0	66	59	3	14

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06754
Estimated Concentration: 23.17 ug/mL



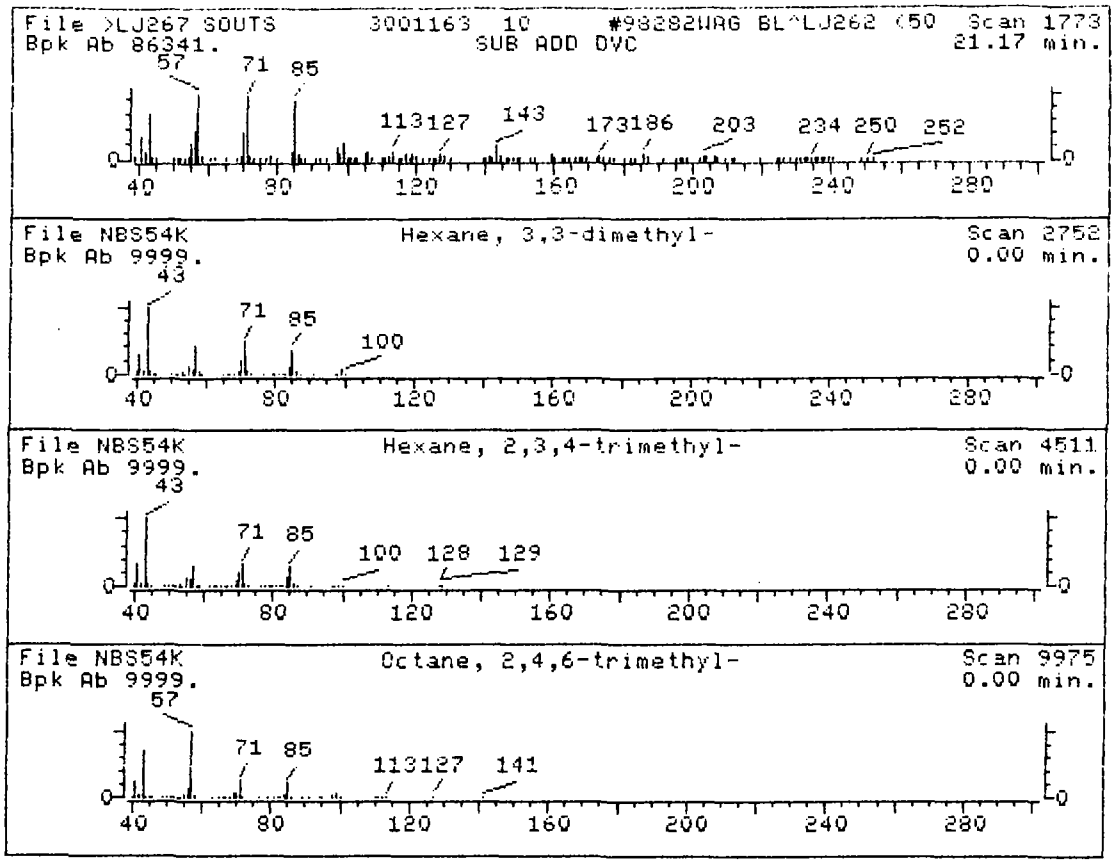
UNKNOWN
DE 10/14/98

1.	Nonahexacontanoic acid	998	C69H138O2
2.	2,2'-Bi-2H-pyran, octahydro-	170	C10H18O2
3.	Octane, 2,4,6-trimethyl-	156	C11H24
4.	Pentane, 2,3,3,4-tetramethyl-	128	C9H20
5.	Pentane, 3-ethyl-2,4-dimethyl-	128	C9H20
6.	Hexane, 2,3,5-trimethyl-	128	C9H20

Sample file: >LJ267 Spectrum #: 1755
Search speed: 3 Tilting option: N No. of ion ranges searched: 160

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	15	40710325	10497	NBS54K	60	144	2	0	100	58	3	12
2.	12	16282294	7065	NBS54K	41	41	0	0	68	61	2	23
3.	11	62016379	7014	NBS54K	42	43	2	0	288	64	2	14
4.	11	16747389	6934	NBS54K	37	45	1	0	135	61	2	14
5.	11*	1068877	6931	NBS54K	33	50	1	0	178	61	2	18
6.	11*	1069530	6942	NBS54K	24	57	2	0	276	61	2	14

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06754
Estimated Concentration: 52.61 ug/mL



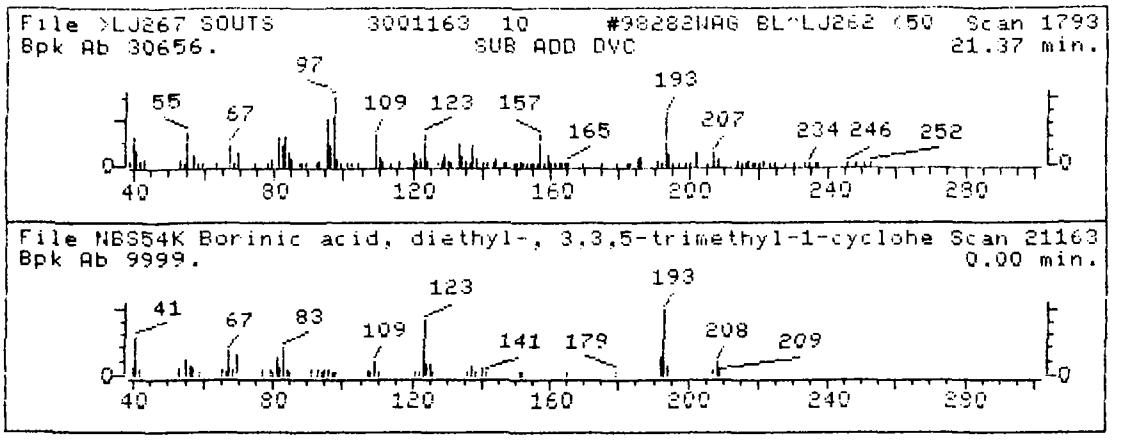
UNKNOWN ALKANE
DEE 10/14/98

1.	Hexane, 3,3-dimethyl-	114	C8H18
2.	Hexane, 2,3,4-trimethyl-	128	C9H20
3.	Octane, 2,4,6-trimethyl-	156	C11H24
4.	Tetradecane, 4-methyl-	212	C15H32
5.	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44
6.	Dodecane, 4-methyl-	184	C13H28

Sample file: >LJ267 Spectrum #: 1773
Search speed: 3 Tilting option: N No. of ion ranges searched: 146

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	49	563166	6894	NBS54K	60	30	2	0	168	24	22	21
2.	45*	921471	6935	NBS54K	42	48	3	0	210	25	17	16
3.	45	62016379	7014	NBS54K	65	20	2	0	282	29	19	23
4.	41*	25117242	7155	NBS54K	54	75	2	0	71	44	14	31
5.	40*	54833486	7219	NBS54K	62	73	2	0	100	48	12	40
6.	33*	6117971	4378	NBS54K	47	59	2	0	104	38	10	19

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06754
Estimated Concentration: 61.44 ug/mL



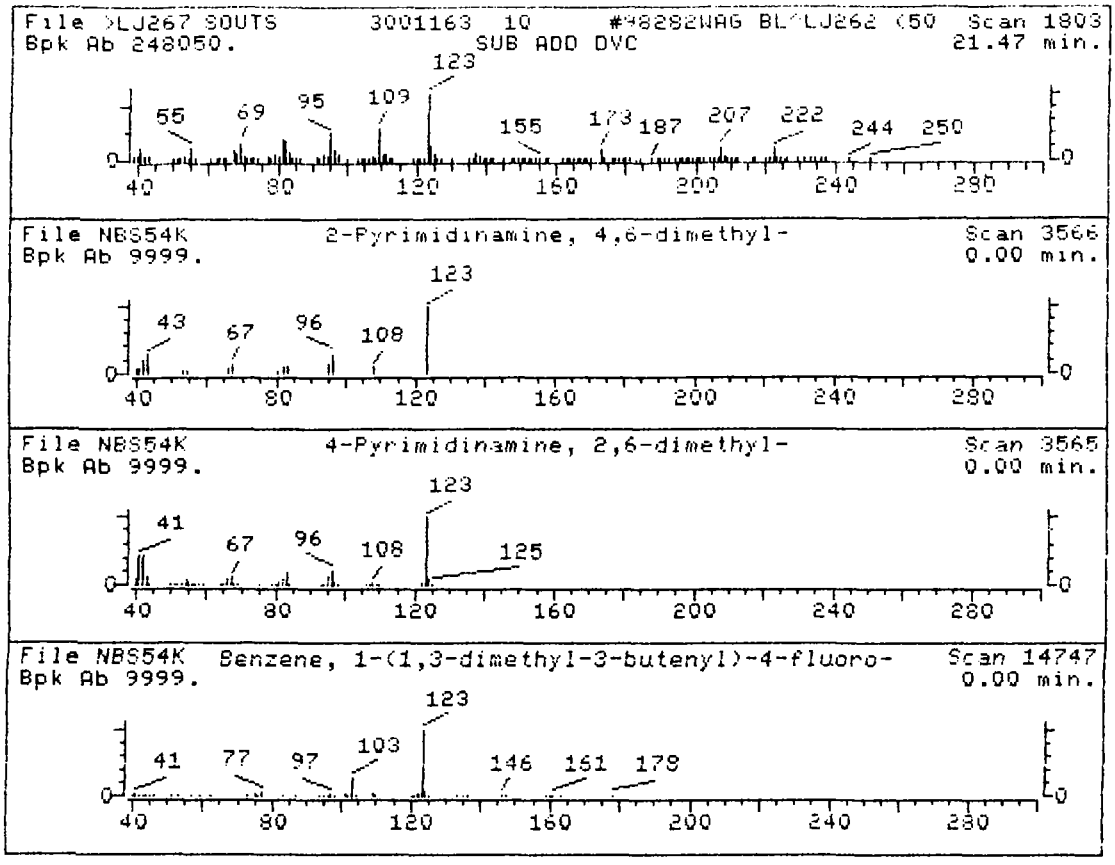
UNKNOWN
DES 10/14/98

1. Borinic acid, diethyl-, 3,3,5-trimethyl-1-cyclohexen -1-yl ester 208 C13H25BO

Sample file: >LJ267 Spectrum #: 1793
Search speed: 3 Tilting option: N No. of ion ranges searched: 50

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	11*	57387765	28216	NBS54K	36	103	2	0	53	64	2	14

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06754
Estimated Concentration: 22.51 ug/mL



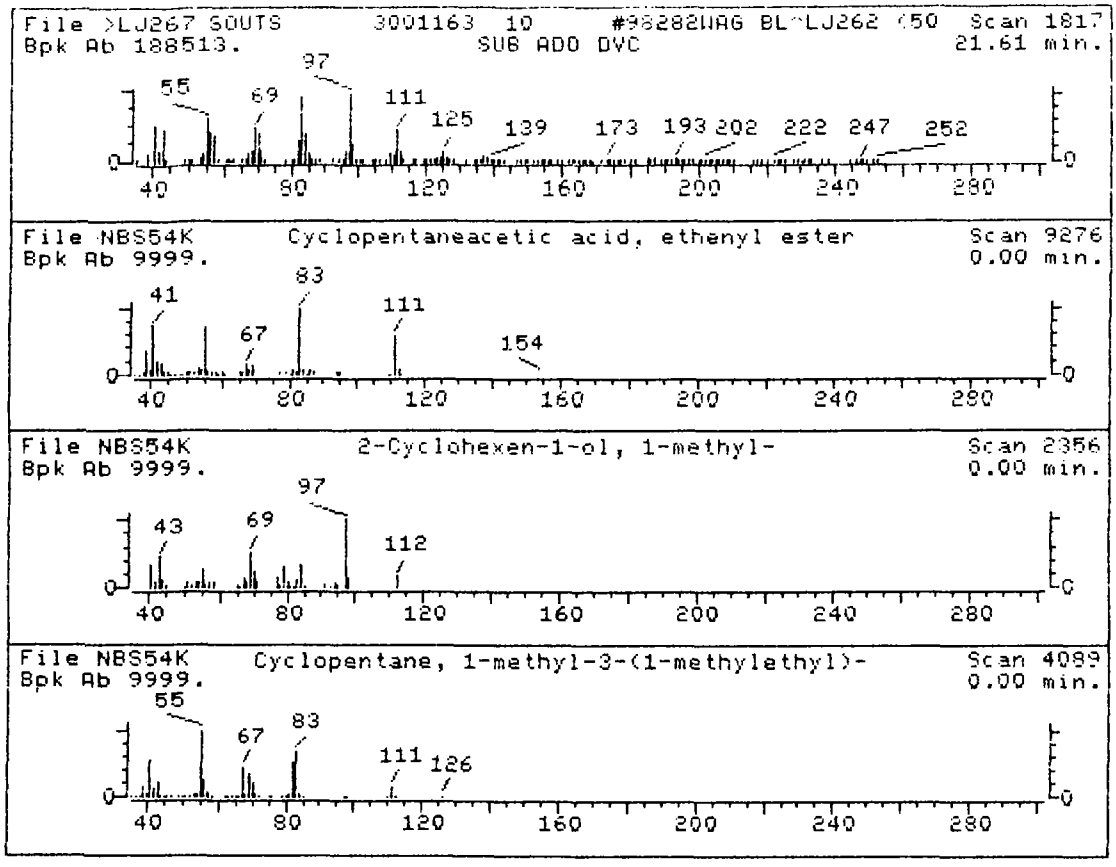
UNKNOWN
DE 10/14/98

1. 2-Pyrimidinamine, 4,6-dimethyl- 123 C6H9N3
2. 4-Pyrimidinamine, 2,6-dimethyl- 123 C6H9N3
3. Benzene, 1-(1,3-dimethyl-3-butenyl)-4-fluoro- 178 C12H15F
4. Phenol, 3-amino-4-methyl- 123 C7H9NO
5. 4-Pyridinecarboxylic acid 123 C6H5NO2
6. 1-Butanone, 4-chloro-1-(4-fluorophenyl)- 200 C10H10ClFO

Sample file: >LJ267 Spectrum #: 1803
Search speed: 3 Tilting option: N No. of ion ranges searched: 141

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	15*	767157	14797	NBS54K	31	60	3	0	100	60	3	13
2.	15*	461983	14796	NBS54K	30	64	1	0	71	58	3	16
3.	15*	74646347	14871	NBS54K	27	62	2	0	100	57	3	14
4.	15*	2836002	14804	NBS54K	24	72	2	0	100	58	3	14
5.	15*	55221	14791	NBS54K	26	76	3	0	100	58	3	13
6.	15*	3874542	14888	NBS54K	29	82	2	0	79	57	3	14

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HPU6754
Estimated Concentration: 144.31 ug/mL



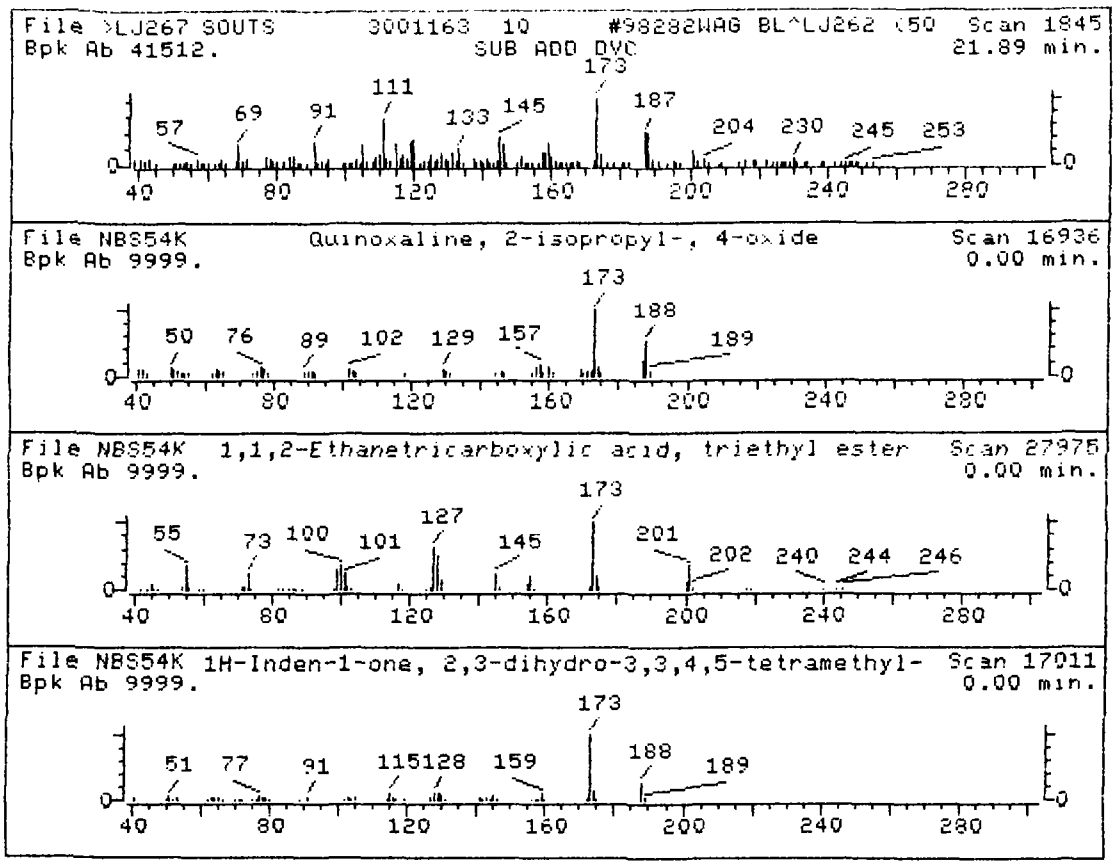
UNKNOWN
DEB 10/14/98

1. Cyclopentaneacetic acid, ethenyl ester 154 C9H14O2
2. 2-Cyclohexen-1-ol, 1-methyl- 112 C7H12O
3. Cyclopentane, 1-methyl-3-(1-methylethyl)- 126 C9H18
4. 3-Cyclohexen-1-ol, 3-methyl- 112 C7H12O
5. Cyclotetradecane 196 C14H28
6. 2-Propanone, 1-cyclopentyl-3-ethoxy- 170 C10H18O2

Sample file: >LJ267 Spectrum #: 1817
Search speed: 3 Tilting option: N No. of ion ranges searched: 157

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	26*	45955666	12487	NBS54K	60	35	1	0	77	59	7	56
2.	20*	23758272	9563	NBS54K	39	66	2	0	87	53	5	14
3.	20*	53771883	6229	NBS54K	35	67	3	0	143	53	5	13
4.	20*	53783918	9557	NBS54K	22	72	2	0	100	54	5	13
5.	15	295170	9745	NBS54K	63	85	2	0	60	59	3	13
6.	15*	51149714	12528	NBS54K	34	69	1	0	85	59	3	18

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06754
Estimated Concentration: 140.72 ug/mL



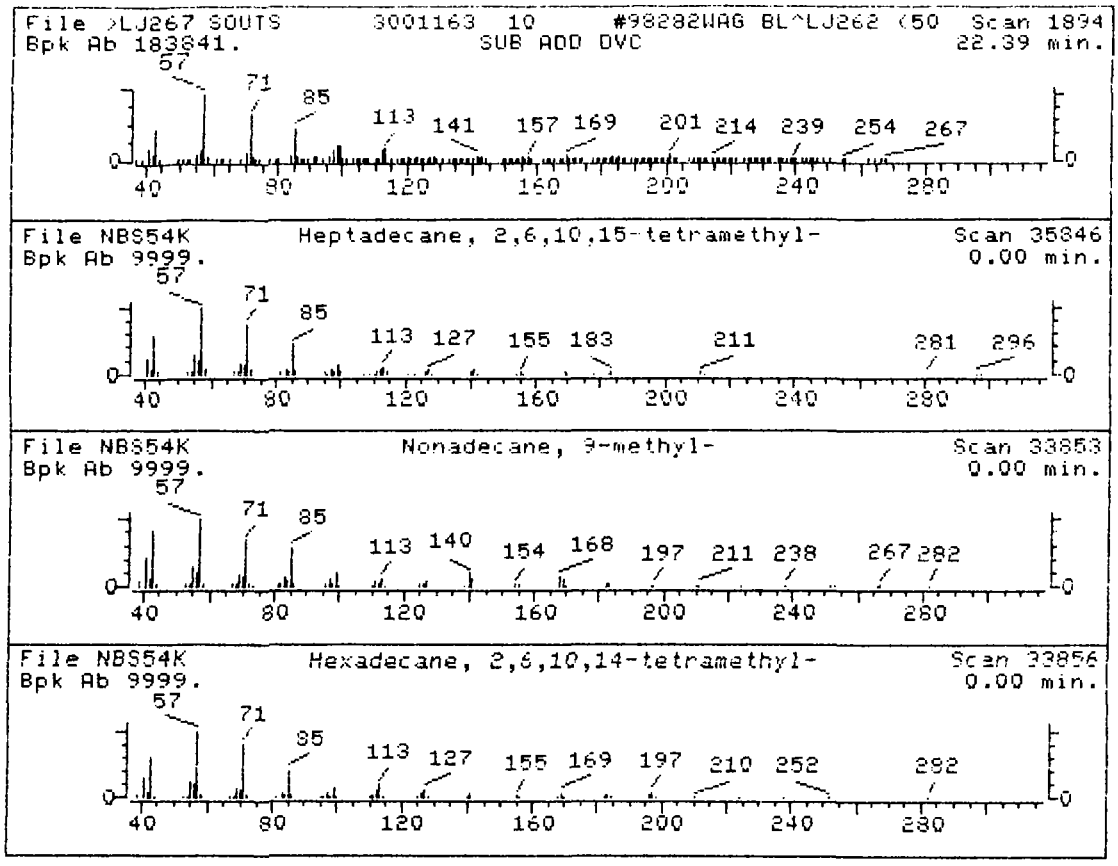
UNKNOWN
DB 10/14/98

1.	Quinoxaline, 2-isopropyl-, 4-oxide	188	C11H12N2O
2.	1,1,2-Ethanetricarboxylic acid, triethyl ester	246	C11H18O6
3.	1H-Inden-1-one, 2,3-dihydro-3,3,4,5-tetramethyl-	188	C13H16O
4.	1(2H)-Naphthalenone, 3,4-dihydro-4,6,7-trimethyl-	188	C13H16O
5.	Naphthalene, 1,4-dimethoxy-	188	C12H12O2
6.	2-CHLORO-6-HYDROXYISONICOTINIC ACID	173	C6H4ClNO3

Sample file: >LJ267 Spectrum #: 1845
Search speed: 3 Tilting option: N No. of ion ranges searched: 70

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	32*	16080163	27367	NBS54K	63	65	2	0	91	53	9	41
2.	20*	7459463	24802	NBS54K	26	130	3	0	100	54	5	13
3.	18*	56298987	24764	NBS54K	41	73	1	0	95	59	4	21
4.	15*	30316326	27395	NBS54K	45	90	2	0	41	60	3	15
5.	15*	10075624	27386	NBS54K	38	85	2	0	74	57	3	14
6.	15*	13609	24718	NBS54K	24	97	3	0	83	56	3	12

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06754
Estimated Concentration: 36.32 ug/mL



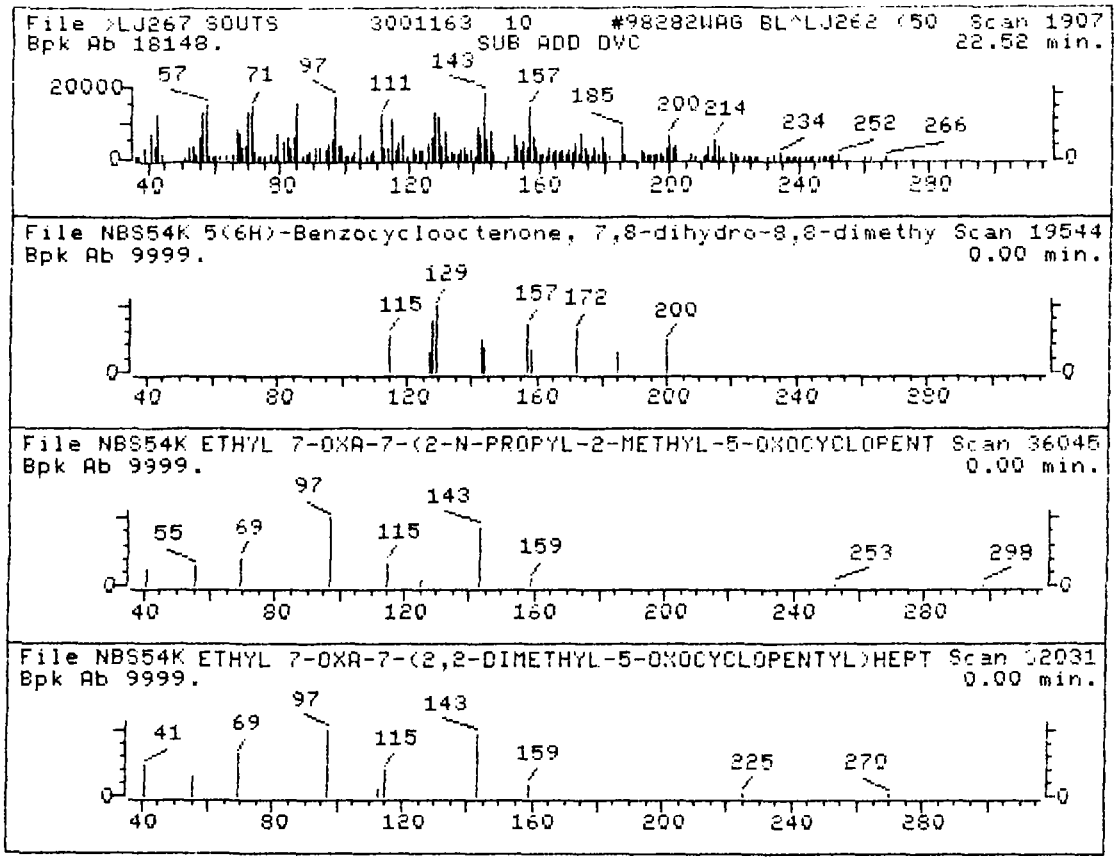
UNKNOWN ALKANE
DE 10/14/98

1. Heptadecane, 2,6,10,15-tetramethyl- 296 C21H44
2. Nonadecane, 9-methyl- 282 C20H42
3. Hexadecane, 2,6,10,14-tetramethyl- 282 C20H42
4. Tetracosane 338 C24H50
5. Pentadecane, 2,6,10,14-tetramethyl- 268 C19H40
6. Heptadecane, 8-methyl- 254 C18H38

Sample file: >LJ267 Spectrum #: 1894
Search speed: 3 Tilting option: N No. of ion ranges searched: 247

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	65*	54833486	7219	NBS54K	74	61	1	0	89	45	24	72
2.	65*	13287246	18802	NBS54K	74	71	2	0	86	35	24	56
3.	59*	638368	13154	NBS54K	72	70	2	0	86	40	21	54
4.	47	646311	7234	NBS54K	92	53	1	0	82	45	17	50
5.	47*	1921706	13146	NBS54K	74	61	1	0	68	55	16	72
6.	46*	13287235	15716	NBS54K	74	67	2	0	78	50	13	56

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06754
Estimated Concentration: 98.66 ug/mL



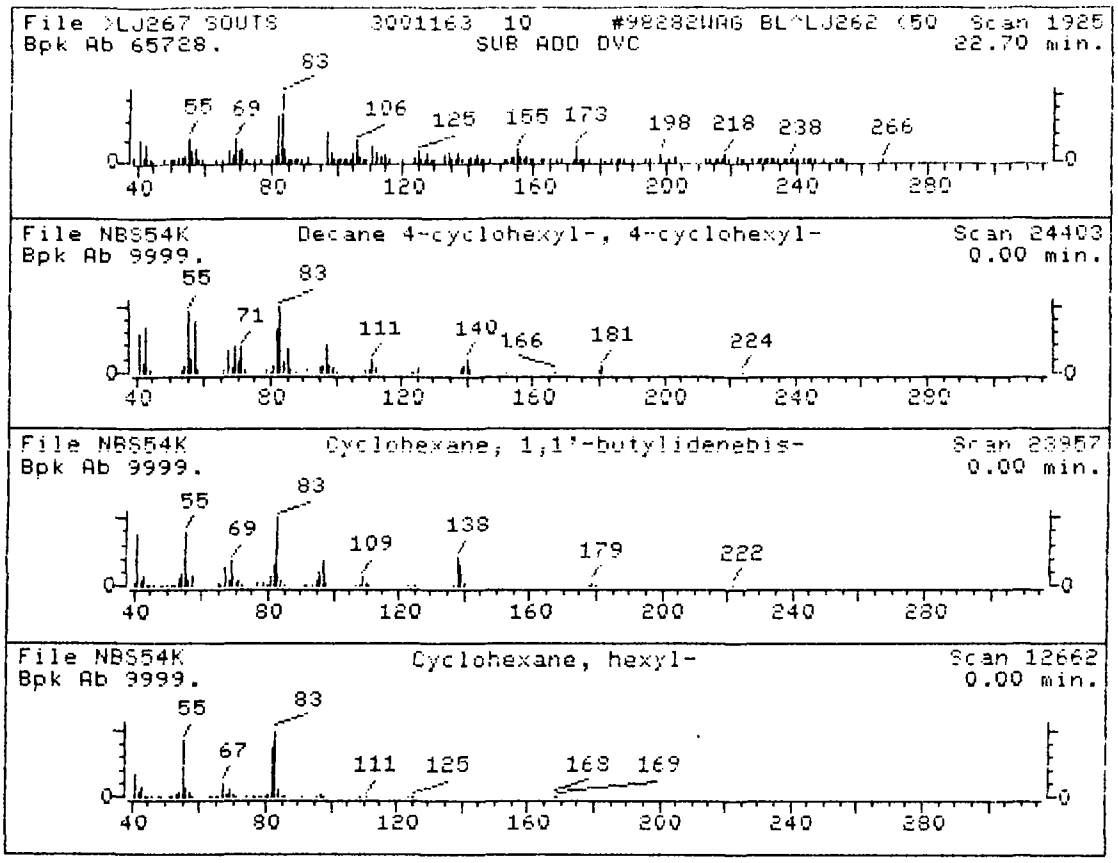
UNKNOWN
DE 10/14/98

1. 5(6H)-Benzocyclooctenone, 7,8-dihydro-8,8-dimethyl- 200 C14H16O
2. ETHYL 7-OXA-7-(2-N-PROPYL-2-METHYL-5-OXOCYCLOPENTYL) HEPTANOATE 298 C17H30O4
3. ETHYL 7-OXA-7-(2,2-DIMETHYL-5-OXOCYCLOPENTYL)HEPTANO ATE 270 C15H26O4

Sample file: >LJ267 Spectrum #: 1907
Search speed: 3 Tilting option: N No. of ion ranges searched: 72

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	23*	69576847	29623	NBS54K	64	41	2	0	75	60	6	43
2.	12*	36045	19377	NBS54K	43	26	2	0	94	65	2	23
3.	11	32031	19357	NBS54K	39	35	2	0	83	65	2	13

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06754
Estimated Concentration: 56.39 ug/mL



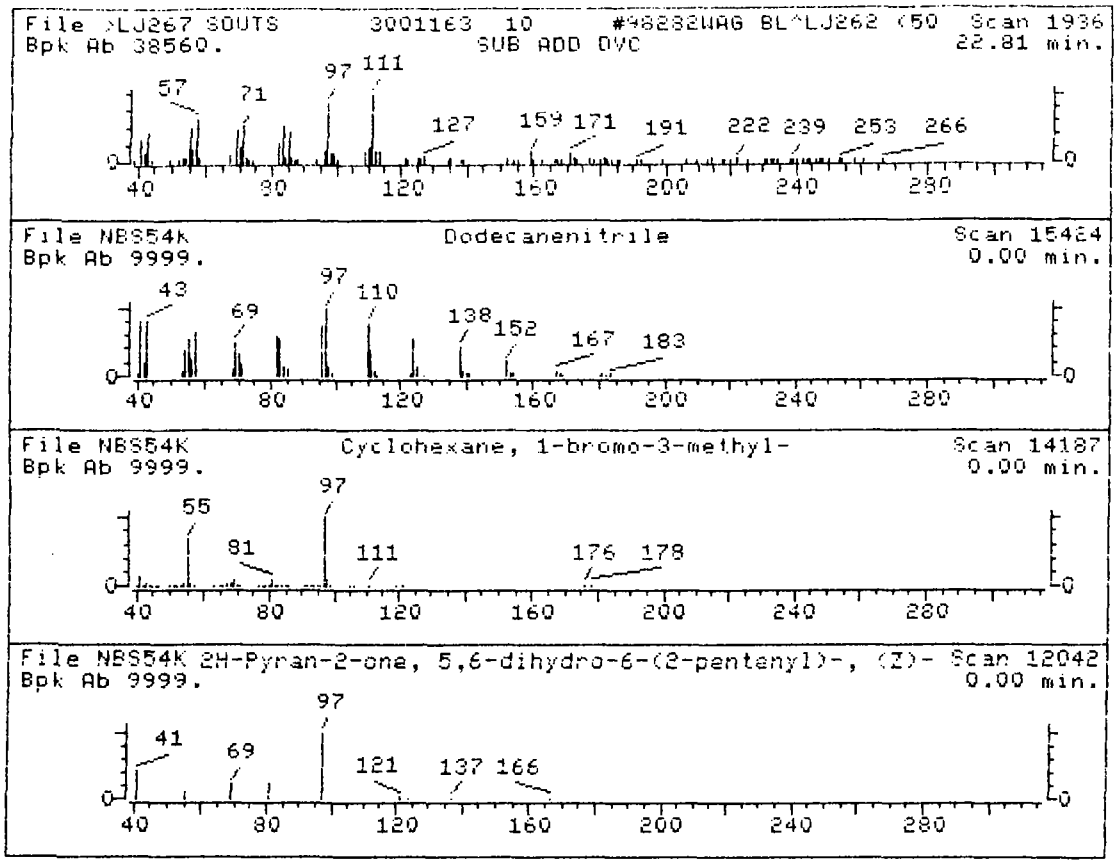
UNKNOWN
TJB 10/14/98

1. Decane 4-cyclohexyl-, 4-cyclohexyl- 224 C16H32
2. Cyclohexane, 1,1'-butylidenebis- 222 C16H30
3. Cyclohexane, hexyl- 168 C12H24
4. Cyclohexane, undecyl- 238 C17H34
5. meso-3,4-Dicyclohexyl-2,5-dimethylhexan 278 C20H38
6. Cyclohexane, 1,1'-(2-ethyl-1,3-propanediyl)bis- 236 C17H32

Sample file: >LJ267 Spectrum #: 1925
Search speed: 3 Tilting option: N No. of ion ranges searched: 250

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	42*	13151752	18774	NBS54K	47	95	3	0	100	24	17	13
2.	30*	54890005	18319	NBS54K	28	108	3	0	100	32	12	13
3.	28*	4292755	6542	NBS54K	29	66	1	0	74	42	8	16
4.	28*	54105667	6409	NBS54K	35	81	2	0	86	40	10	14
5.	27*	62678528	18341	NBS54K	48	95	3	0	86	38	10	13
6.	27*	54833340	30979	NBS54K	37	101	3	0	99	38	10	13

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06754
Estimated Concentration: 42.32 ug/mL



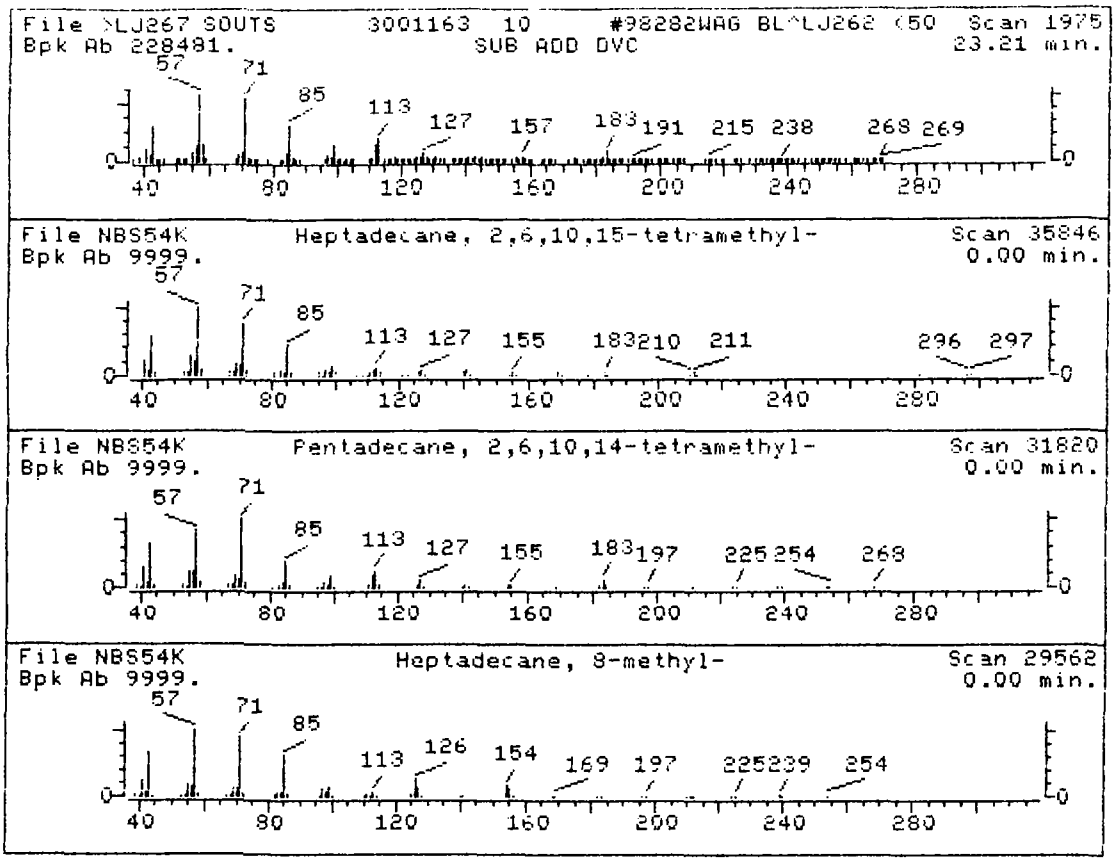
UNKNOWN
DE 10/14/98

1.	Dodecanenitrile	181	C12H23N
2.	Cyclohexane, 1-bromo-3-methyl-	176	C7H13Br
3.	2H-Pyran-2-one, 5,6-dihydro-6-(2-pentenyl)-, (Z)-	166	C10H14O2
4.	Thiophene, 2-butyl-	140	C8H12S
5.	5-Nonen-4-one	140	C9H16O
6.	1H-Pyrazole-1-carboxamide, 4,5-dihydro-3,5,5-trimethyl-	155	C7H13N3O

Sample file: >LJ267 Spectrum #: 1936
Search speed: 3 Tilting option: N No. of ion ranges searched: 160

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	15*	2437254	18271	NBS54K	31	119	3	0	86	56	3	13
2.	12*	13905481	9709	NBS54K	38	43	1	0	75	65	2	21
3.	11*	75363596	9682	NBS54K	24	27	1	0	78	65	2	14
4.	11	1455205	9619	NBS54K	43	49	2	0	73	63	2	12
5.	11*	32064770	9625	NBS54K	33	45	1	0	73	65	2	18
6.	11	3786025	9672	NBS54K	36	50	1	0	59	65	2	13

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HPU6754
Estimated Concentration: 25.68 ug/mL



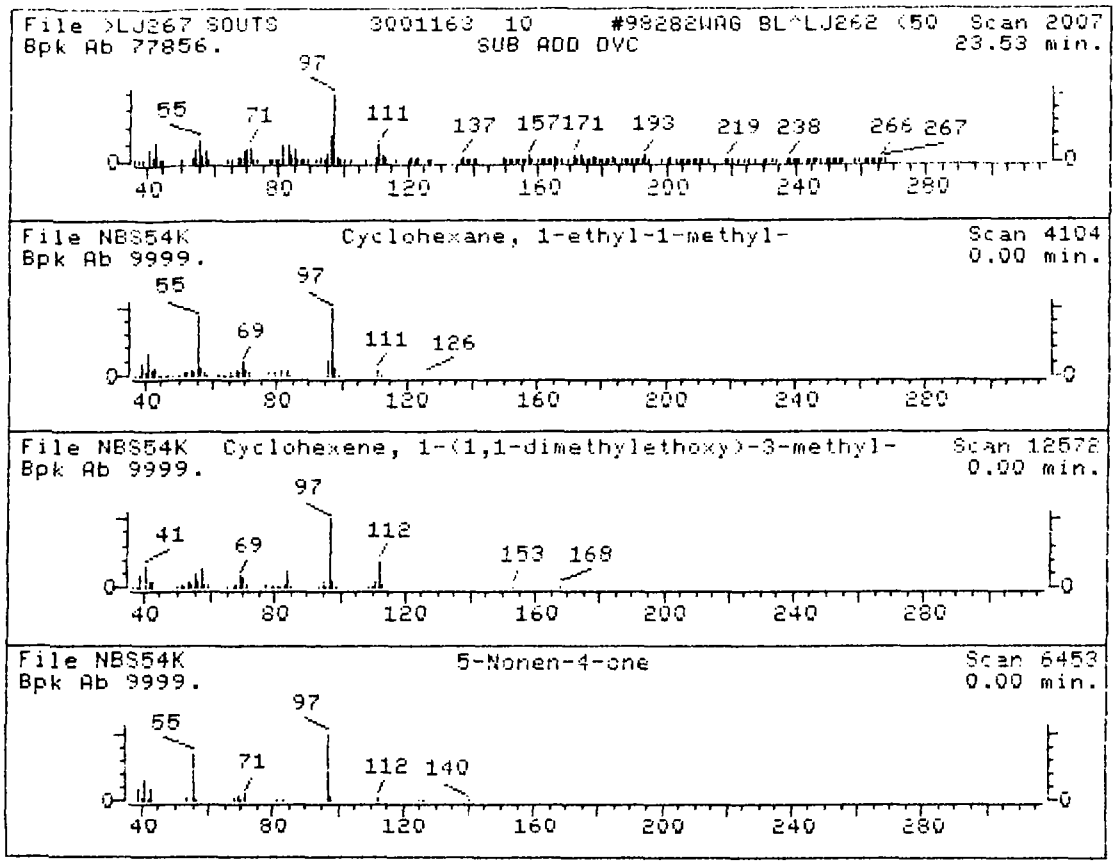
UNKNOWN ALKANE
DE 10/14/98

1.	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44
2.	Pentadecane, 2,6,10,14-tetramethyl-	268	C19H40
3.	Heptadecane, 8-methyl-	254	C18H38
4.	Nonadecane, 9-methyl-	282	C20H42
5.	Nonadecane, 2,6,10,14-tetramethyl-	324	C23H48
6.	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42

Sample file: >LJ267 Spectrum #: 1975
Search speed: 3 Tilting option: N No. of ion ranges searched: 249

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	76*	54833486	7219	NBS54K	74	61	1	0	100	24	41	72
2.	73*	1921706	13146	NBS54K	80	55	2	0	94	25	32	61
3.	71*	13287235	15716	NBS54K	87	54	2	0	87	29	29	66
4.	63*	13287246	18802	NBS54K	68	77	3	0	96	19	30	35
5.	60	55124806	35435	NBS54K	71	103	2	0	67	11	30	17
6.	59*	638368	13154	NBS54K	59	83	2	0	98	22	27	36

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06754
Estimated Concentration: 131.34 ug/mL



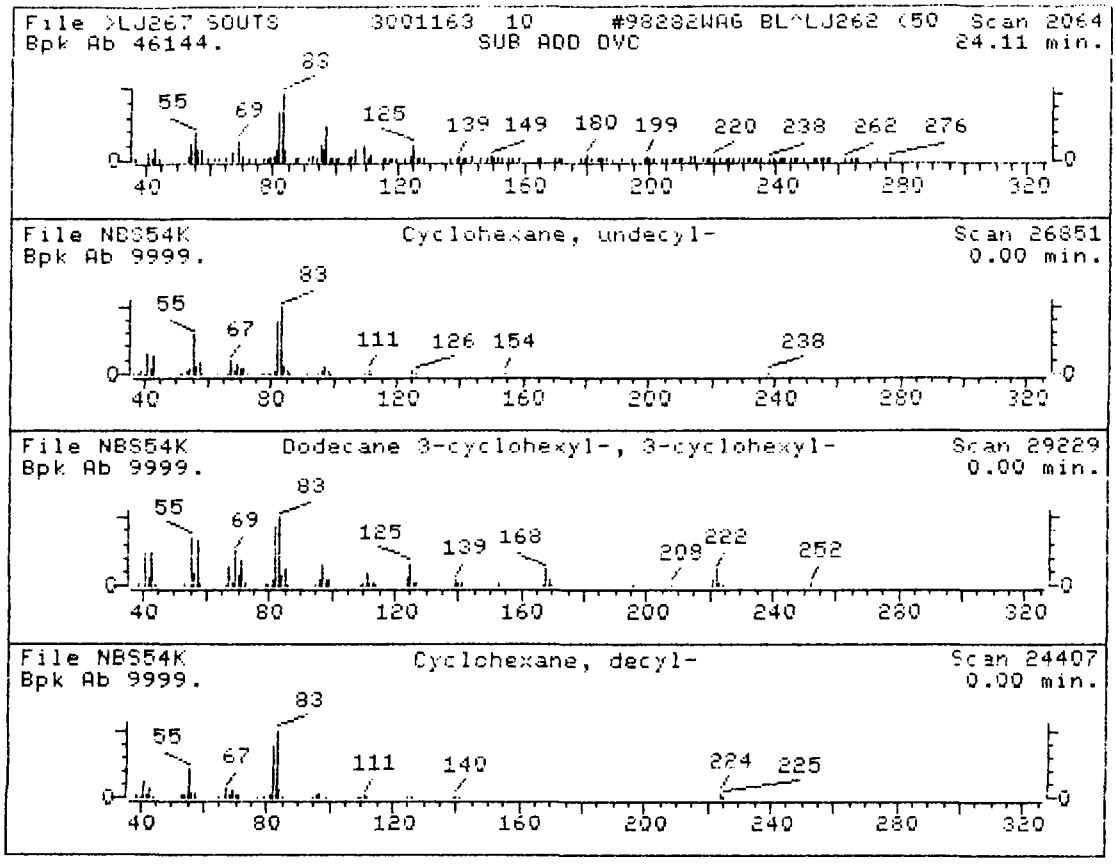
UNKNOWN
DE 10/14/98

1.	Cyclohexane, 1-ethyl-1-methyl-	126	C9H18
2.	Cyclohexene, 1-(1,1-dimethylethoxy)-3-methyl-	168	C11H20O
3.	5-Nonen-4-one	140	C9H16O
4.	Cyclohexane, 1-bromo-3-methyl-	176	C7H13Br
5.	Cyclohexane, 1-bromo-4-methyl-	176	C7H13Br
6.	2-Azetidinone, 1-benzyl-3-tert-butyl-4,4-dimethyl-	245	C16H23NO

Sample file: >LJ267 Spectrum #: 2007
Search speed: 3 Tilting option: N No. of ion ranges searched: 174

	Prob.	CAS #	CON #	RDOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	48*	4926903	9599	NBS54K	36	55	1	0	82	23	17	19
2.	45*	40648246	9697	NBS54K	37	58	2	0	100	23	17	16
3.	44*	32064770	9625	NBS54K	30	48	2	0	100	23	17	15
4.	44*	13905481	9709	NBS54K	28	53	1	0	85	23	17	15
5.	44*	6294402	9712	NBS54K	28	54	1	0	85	23	17	15
6.	43*	22607041	12841	NBS54K	26	36	2	0	100	23	17	14

Sample # 3001163 Injected 10/12/98 at 15:52 on Instrument # HP86/54
Estimated Concentration: 27.10 ug/mL



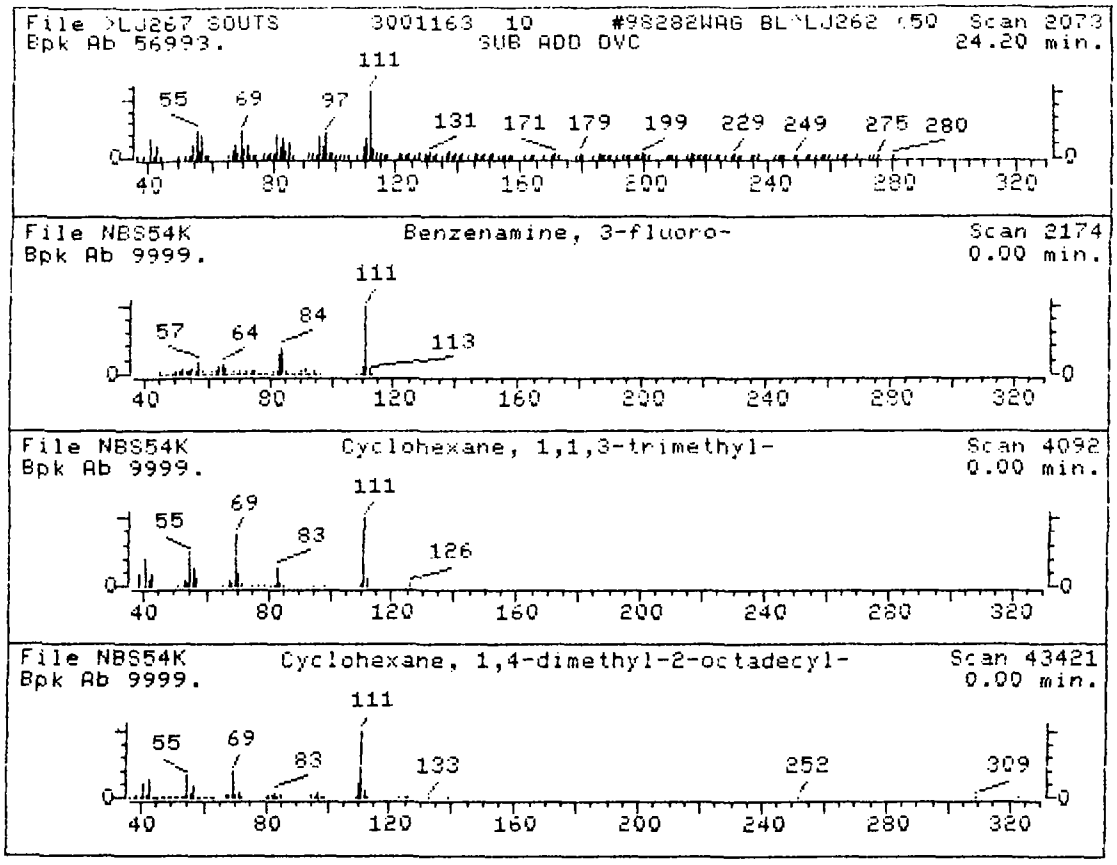
UNKNOWN
DES 10/14/98

1.	Cyclohexane, undecyl-	238	C17H34
2.	Dodecane 3-cyclohexyl-, 3-cyclohexyl-	252	C18H36
3.	Cyclohexane, decyl-	224	C16H32
4.	Tropane	125	C8H15N
5.	Heptanenitrile	111	C7H13N
6.	Cyclohexane, 1,1'-(2-methyl-1,3-propanediyl)bis-	222	C16H30

Sample file: >LJ267 Spectrum #: 2064
Search speed: 3 Tilting option: N No. of ion ranges searched: 1/5

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	62*	54105667	6409	NBS54K	55	61	1	0	70	28	25	42
2.	60*	13151832	33363	NBS54K	43	108	3	0	85	14	30	13
3.	35	1795160	6396	NBS54K	53	61	1	0	95	28	14	12
4.	25*	529179	15209	NBS54K	21	51	2	0	51	48	7	13
5.	25*	629083	6204	NBS54K	34	68	2	0	51	47	7	14
6.	25*	2883081	30970	NBS54K	44	95	3	0	100	42	8	13

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06/54
Estimated Concentration: 17.50 ug/mL



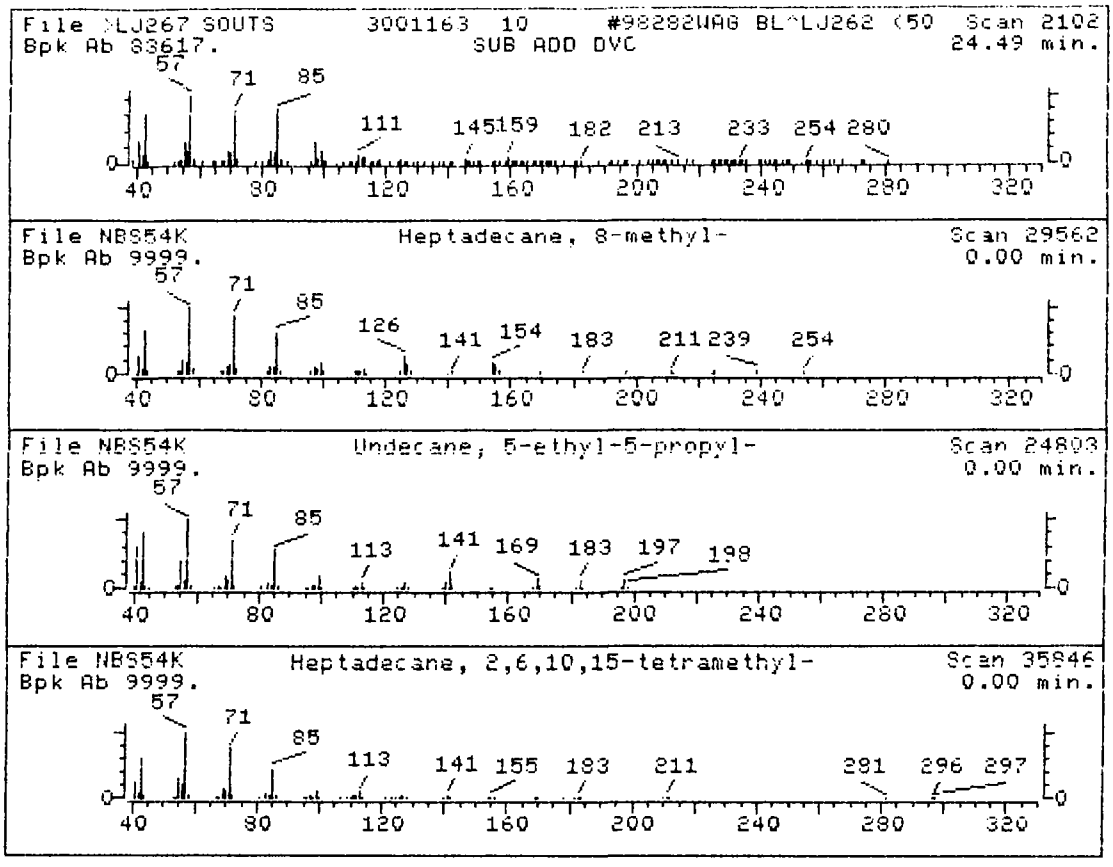
UNKNOWN
DB 10/14/98

1.	Benzenamine, 3-fluoro-	111	C6H6FN
2.	Cyclohexane, 1,1,3-trimethyl-	126	C9H18
3.	Cyclohexane, 1,4-dimethyl-2-octadecyl-	364	C26H52
4.	3-Cyclobutene-1,2-dicarboxylic acid, dimethyl ester, cis-	170	C8H10O4
5.	p-Fluoroaniline	111	C6H6FN
6.	3-Cyclobutene-1,2-dicarboxylic acid, dimethyl ester	170	C8H10O4

Sample file: >LJ267 Spectrum #: 2073
Search speed: 3 Tilting option: N No. of ion ranges searched: 186

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CUN	C_I	R_IU
1.	47*	372190	12427	NBS54K	43	55	2	0	95	21	17	18
2.	46*	3073663	12453	NBS54K	42	57	2	0	79	21	17	17
3.	44	55282025	12564	NBS54K	32	101	0	0	79	21	17	15
4.	43*	42577151	12525	NBS54K	37	62	2	0	100	21	17	14
5.	43*	371404	12426	NBS54K	34	67	2	0	90	21	17	14
6.	43*	60333144	12522	NBS54K	25	71	2	0	100	21	17	14

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06754
Estimated Concentration: 42.15 ug/mL



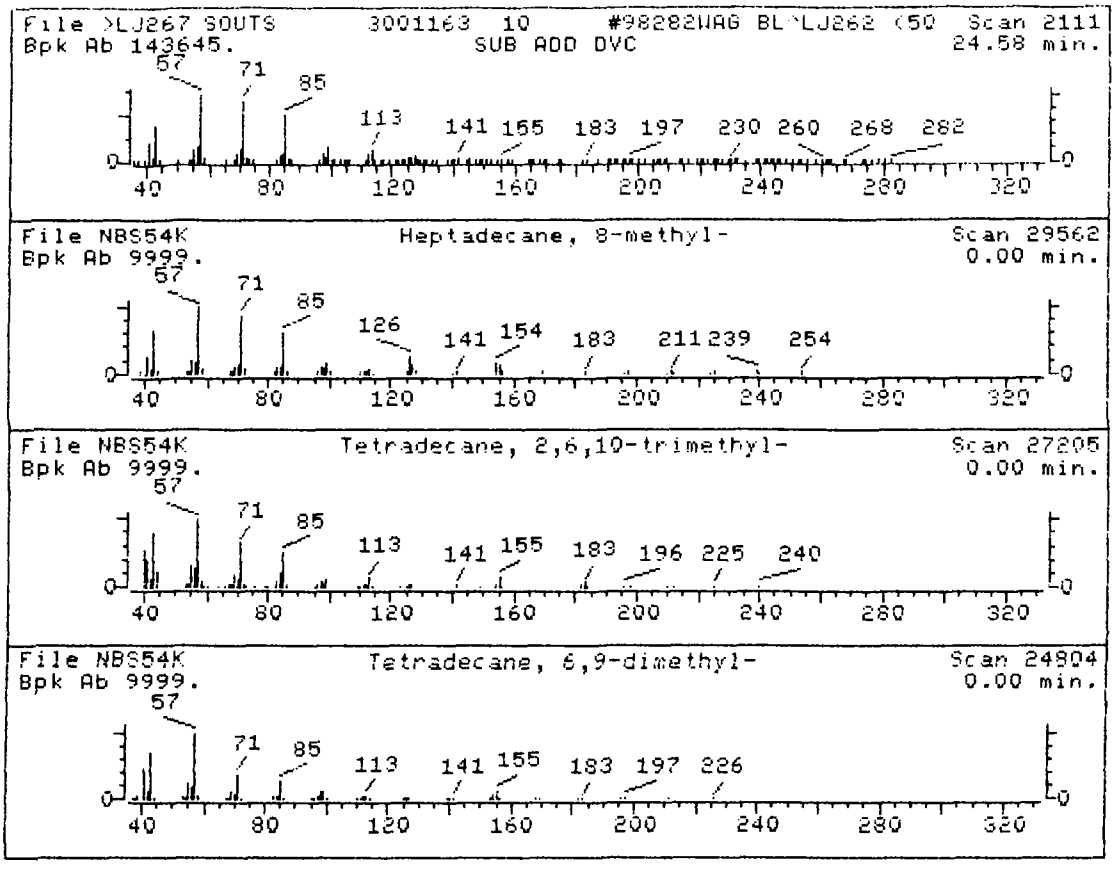
UNKNOWN ALKANE
DS 10/14/98

1.	Heptadecane, 8-methyl-	254	C18H38
2.	Undecane, 5-ethyl-5-propyl-	226	C16H34
3.	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44
4.	Hexane, 3,3-dimethyl-	114	C8H18
5.	Heptacosane	380	C27H56
6.	Dodecane, 4,6-dimethyl-	198	C14H30

Sample file: >LJ267 Spectrum #: 2102
Search speed: 3 Tilting option: N No. of ion ranges searched: 1/8

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_1	R_10
1.	71*	13287235	15716	NBS54K	61	80	2	0	88	13	38	38
2.	70	2755079	29064	NBS54K	63	69	2	0	100	8	42	13
3.	65*	54833486	7219	NBS54K	71	64	2	0	94	34	24	52
4.	52	563166	6894	NBS54K	53	37	2	0	164	16	20	18
5.	47	593497	7249	NBS54K	88	67	2	0	100	29	19	25
6.	47*	61141728	4619	NBS54K	57	53	0	0	84	51	11	69

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HPJ6/54
Estimated Concentration: 32.47 ug/mL



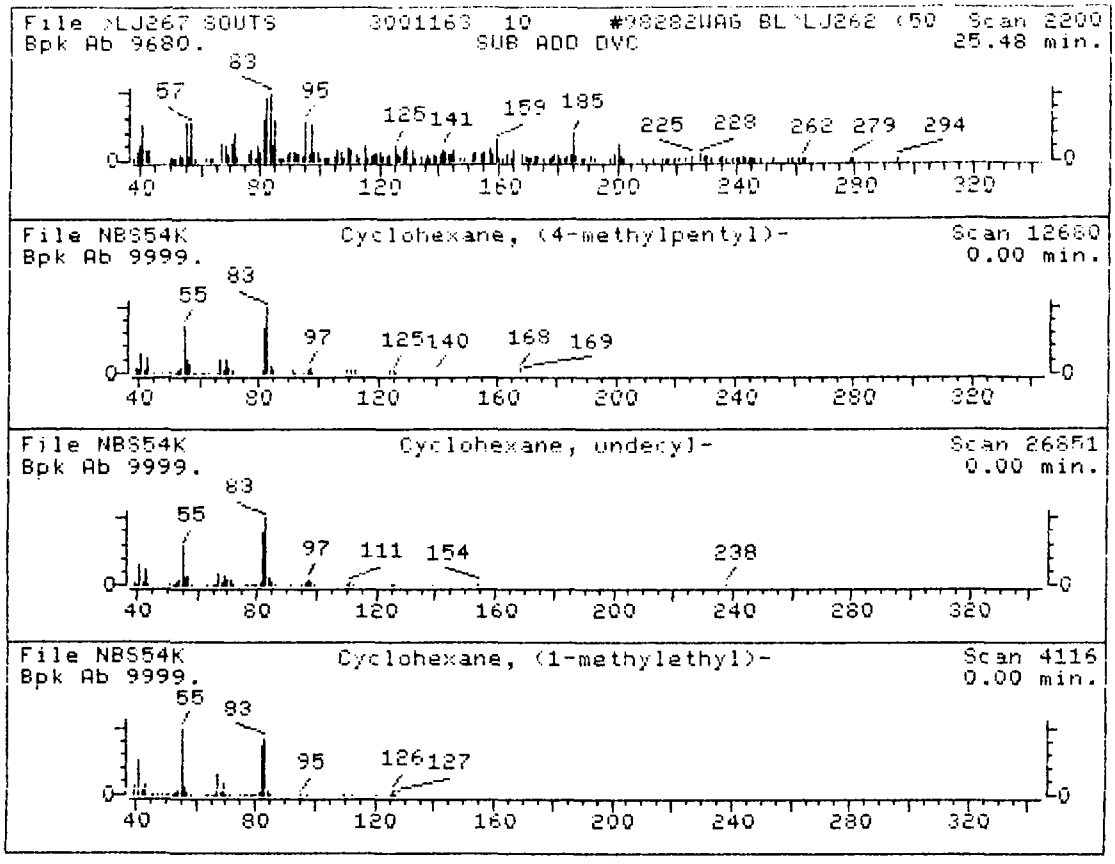
UNKNOWN ALKANE
DB 10/14/98

1. Heptadecane, 8-methyl-	254	C18H38
2. Tetradecane, 2,6,10-trimethyl-	240	C17H36
3. Tetradecane, 6,9-dimethyl-	226	C16H34
4. Nonane, 5-butyl-	184	C13H28
5. Nonadecane, 9-methyl-	282	C20H42
6. Pentadecane, 2,6,10,14-tetramethyl-	268	C19H40

Sample file: >LJ267 Spectrum #: 2111
Search speed: 3 Tilting option: N No. of ion ranges searched: 244

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	68*	13287235	15716	NBS54K	70	71	2	0	87	22	30	50
2.	60*	14905567	7186	NBS54K	55	77	3	0	100	14	30	18
3.	60*	55045131	21524	NBS54K	40	84	3	0	242	14	30	13
4.	60*	17312639	15661	NBS54K	66	47	2	0	90	31	22	45
5.	59*	13287246	18802	NBS54K	73	72	2	0	83	40	21	55
6.	51*	1921706	13146	NBS54K	50	85	2	0	69	25	22	23

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06/54
Estimated Concentration: 48.72 ug/mL



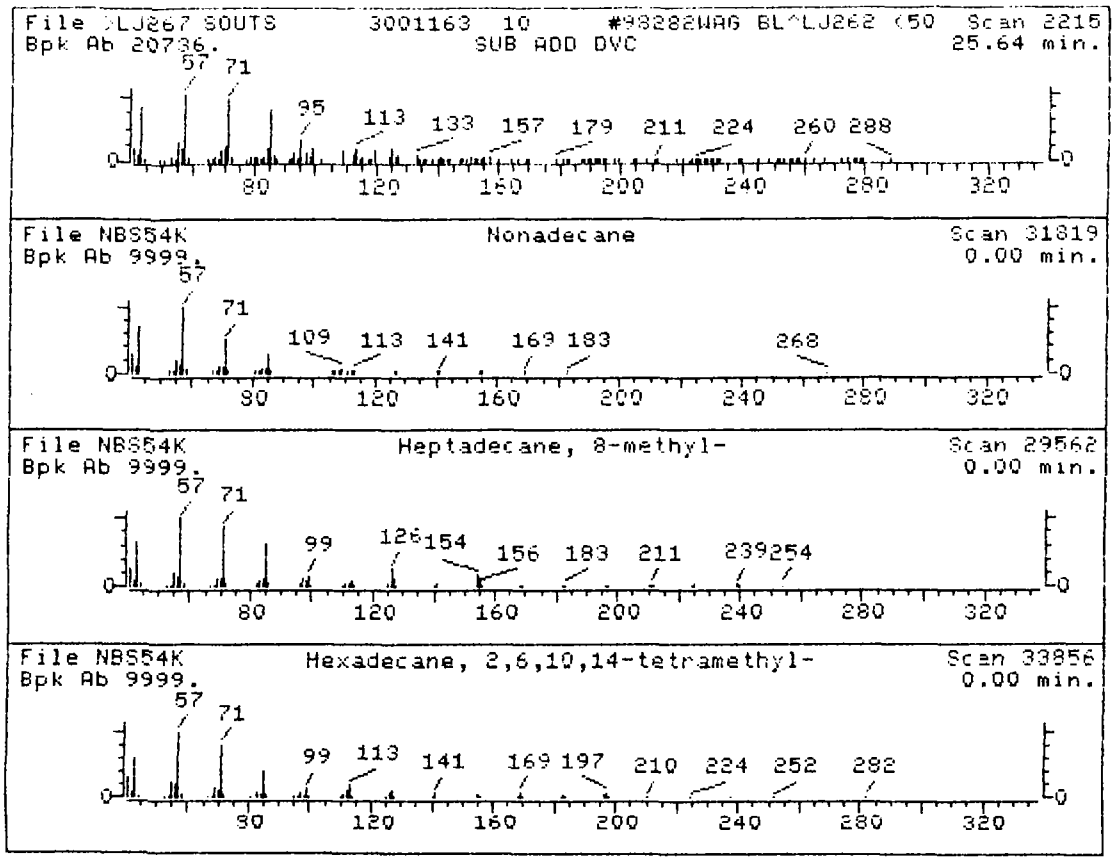
UNKNOWN
DB 10/21/98

1. Cyclohexane, (4-methylpentyl)- 168 C12H24
2. Cyclohexane, undecyl- 238 C17H34
3. Cyclohexane, (1-methylethyl)- 126 C9H18
4. Cyclohexane, hexyl- 168 C12H24
5. 8-Azabicyclo[3.2.1]octan-3-ol, 8-methyl-, 8-oxide, (157 C8H15NO2
   endo,syn)-
6. Cyclohexane, (1-methylpropyl)- 140 C10H20

Sample file: >LJ267 Spectrum #: 2200
Search speed: 3 Tilting option: N No. of ion ranges searched: 237

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	20*	61142209	6544	NBS54K	29	68	3	0	100	55	5	13
2.	20*	54105667	6409	NBS54K	29	87	2	0	100	55	5	14
3.	15*	696297	6508	NBS54K	38	56	3	0	108	57	3	13
4.	15*	4292755	6542	NBS54K	24	71	2	0	100	57	3	14
5.	15*	32663711	6311	NBS54K	39	89	3	0	92	57	3	13
6.	15*	7058017	6515	NBS54K	22	79	3	0	130	57	3	12

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06754
Estimated Concentration: 17.06 ug/mL



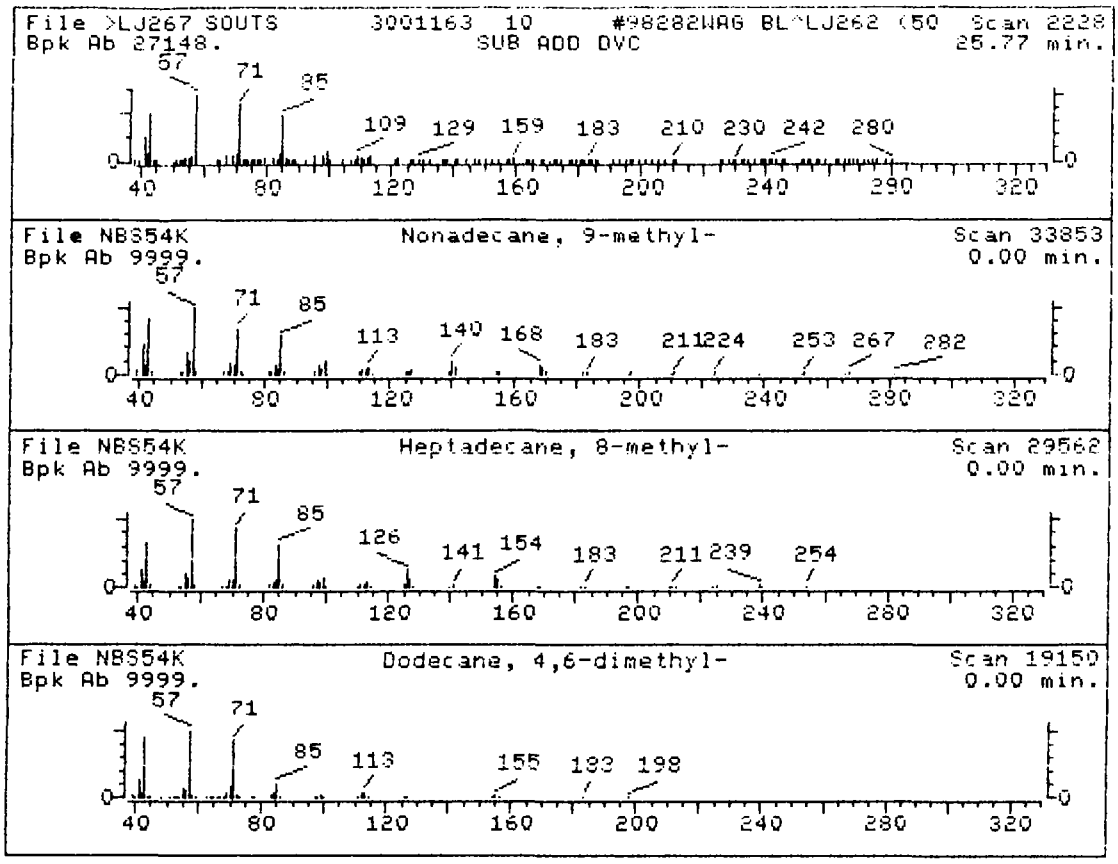
UNKNOWN ALKANE
DE 10/9/98

1.	Nonadecane	268	C19H40
2.	Heptadecane, 8-methyl-	254	C18H38
3.	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42
4.	Hexane, 3,3-dimethyl-	114	C8H18
5.	Decane, 3-bromo-	220	C10H21Br
6.	Nonane, 1-iodo-	254	C9H19I

Sample file: >LJ267 Spectrum #: 2215
Search speed: 3 Tilting option: N No. of ion ranges searched: 189

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	64*	629925	7205	NBS54K	76	41	3	0	179	23	28	41
2.	60	13287235	15716	NBS54K	66	75	2	0	100	13	30	14
3.	59*	638368	13154	NBS54K	76	66	2	0	84	39	21	59
4.	52	563166	6894	NBS54K	58	32	2	0	194	20	20	19
5.	52	30571712	18946	NBS54K	73	52	3	0	97	20	20	13
6.	49	4282422	21554	NBS54K	79	49	2	0	78	29	22	21

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06754
Estimated Concentration: 10.90 ug/mL



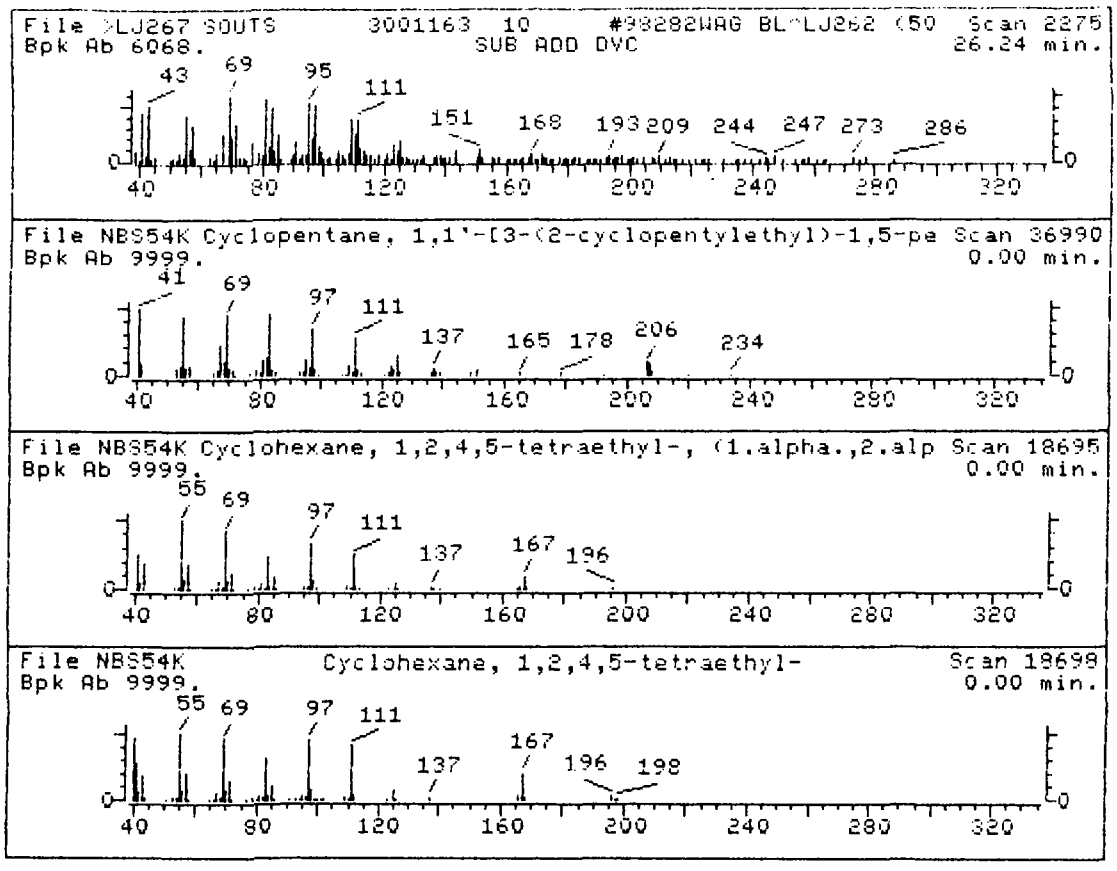
UNKNOWN ALKANE
DE 10/14/98

1. Nonadecane, 9-methyl- 282 C20H42
2. Heptadecane, 8-methyl- 254 C18H38
3. Dodecane, 4,6-dimethyl- 198 C14H30
4. Hexadecane, 7-methyl- 240 C17H36
5. Pentane, 2,3,3-trimethyl- 114 C8H18
6. Dodecane, 1-iodo- 296 C12H25I

Sample file: >LJ267 Spectrum #: 2228
Search speed: 3 Tilting option: N No. of ion ranges searched: 248

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	76*	13287246	18802	NBS54K	73	72	2	0	92	14	40	55
2.	74*	13287235	15716	NBS54K	75	66	3	0	97	14	39	40
3.	69*	61141728	4619	NBS54K	64	46	1	0	78	35	26	63
4.	62*	26730201	4643	NBS54K	69	55	2	0	80	28	25	49
5.	60	560214	6891	NBS54K	43	45	2	0	187	14	30	14
6.	60	4292197	7217	NBS54K	60	69	2	0	100	14	30	12

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06254
Estimated Concentration: 6.42 ug/mL



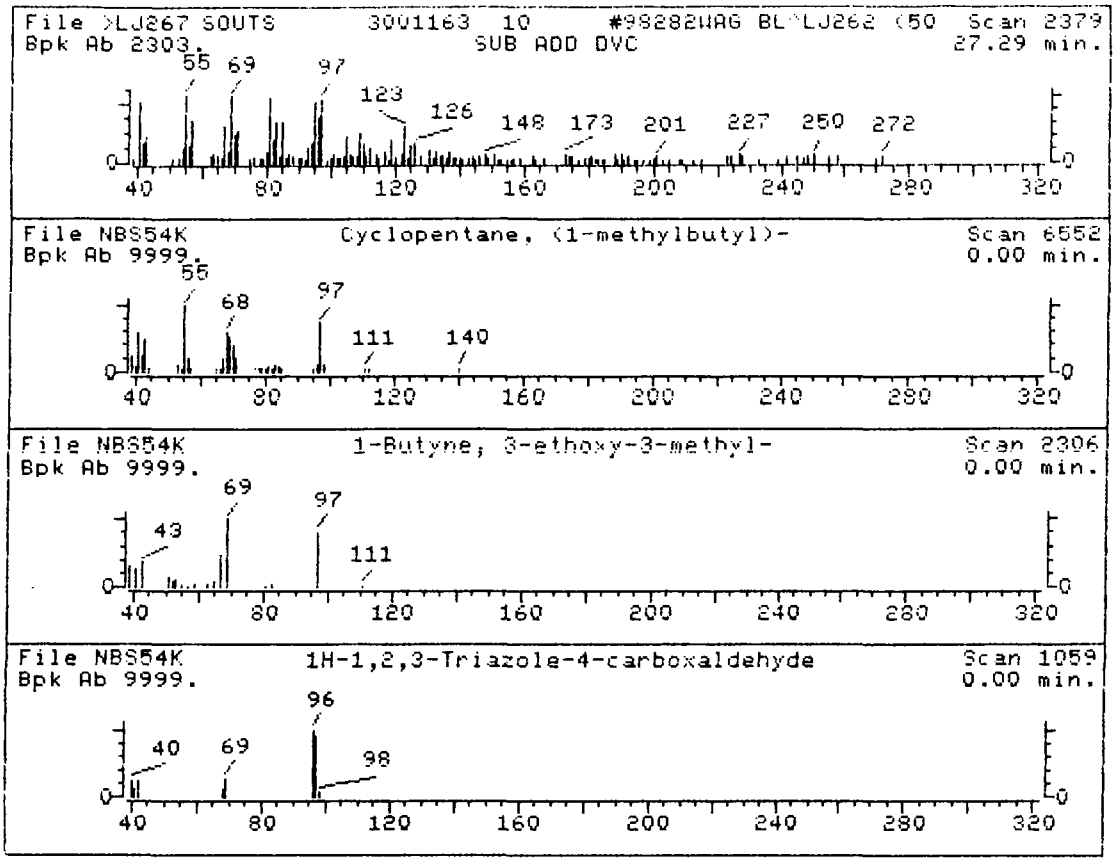
UNKNOWN
DG 10/14/98

1. Cyclopentane, 1,1'-[3-(2-cyclopentylethyl)-1,5-pentanediyl]bis- 304 C22H40
2. Cyclohexane, 1,2,4,5-tetraethyl-, (1.alpha.,2.alpha.,4.alpha.,5.alpha.)- 196 C14H28
3. Cyclohexane, 1,2,4,5-tetraethyl- 196 C14H28
4. Cyclohexane, 1,1',1''-(1-ethanyl-2-ylidene)tris- 276 C20H36
5. Cyclohexane, 1,2-dimethyl-3-pentyl-4-propyl- 224 C16H32
6. 4-Undecene, 6-methyl- 168 C12H24

Sample file: >LJ267 Spectrum #: 2275
Search speed: 3 Tilting option: N No. of ion ranges searched: 224

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	26	55255851	31016	NBS54K	77	87	3	0	81	41	8	14
2.	25*	61142243	12544	NBS54K	43	88	2	0	118	49	7	14
3.	25*	61142005	23782	NBS54K	34	108	2	0	71	48	7	14
4.	20*	55682865	28276	NBS54K	45	106	3	0	109	55	5	13
5.	18*	62376174	9772	NBS54K	52	90	2	0	81	58	4	27
6.	15*	12606	9698	NBS54K	32	58	3	0	289	60	3	13

Sample # 3001163 Injected 10/12/98 at 19:32 on Instrument # HP06754
Estimated Concentration: 12.49 ug/mL



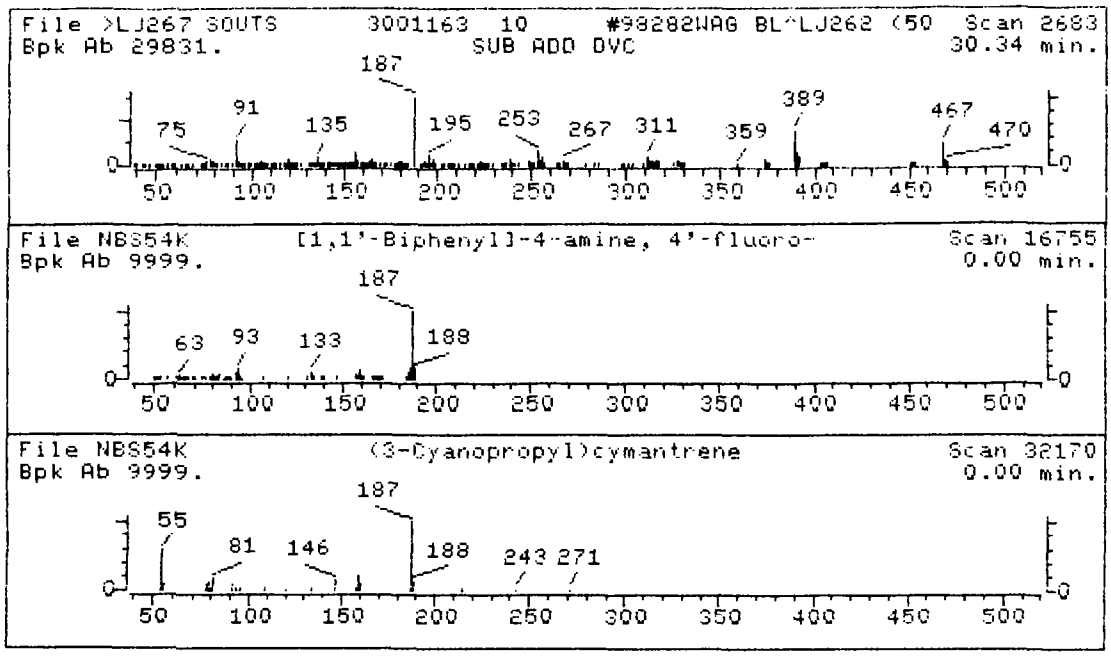
UNKNOWN
DB 10/14/98

1. Cyclopentane, (1-methylbutyl)- 140 C10H20
2. 1-Butyne, 3-ethoxy-3-methyl- 112 C7H12O
3. 1H-1,2,3-Triazole-4-carboxaldehyde 97 C3H3N3O
4. 4-Hexen-3-one, 4,5-dimethyl- 126 C8H14O
5. Furan, 2,3-dihydro-4-(1-methylpropyl)-, (S)- 126 C8H14O
6. 2-Pentene, 3-ethyl-4,4-dimethyl- 126 C9H18

Sample file: >LJ267 Spectrum #: 2379
Search speed: 3 Tilting option: N No. of ion ranges searched: 205

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	24*	4737433	9638	NBS54K	51	57	2	0	100	51	7	25
2.	20	7740694	9552	NBS54K	37	46	2	0	97	51	5	12
3.	20*	16681688	9533	NBS54K	23	39	2	0	103	51	5	13
4.	20*	17325905	9589	NBS54K	39	58	2	0	88	51	5	16
5.	20*	34379549	9587	NBS54K	33	55	1	0	93	51	5	18
6.	20*	53907598	9598	NBS54K	42	67	2	0	93	51	5	14

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06/54
Estimated Concentration: 7.52 ug/mL



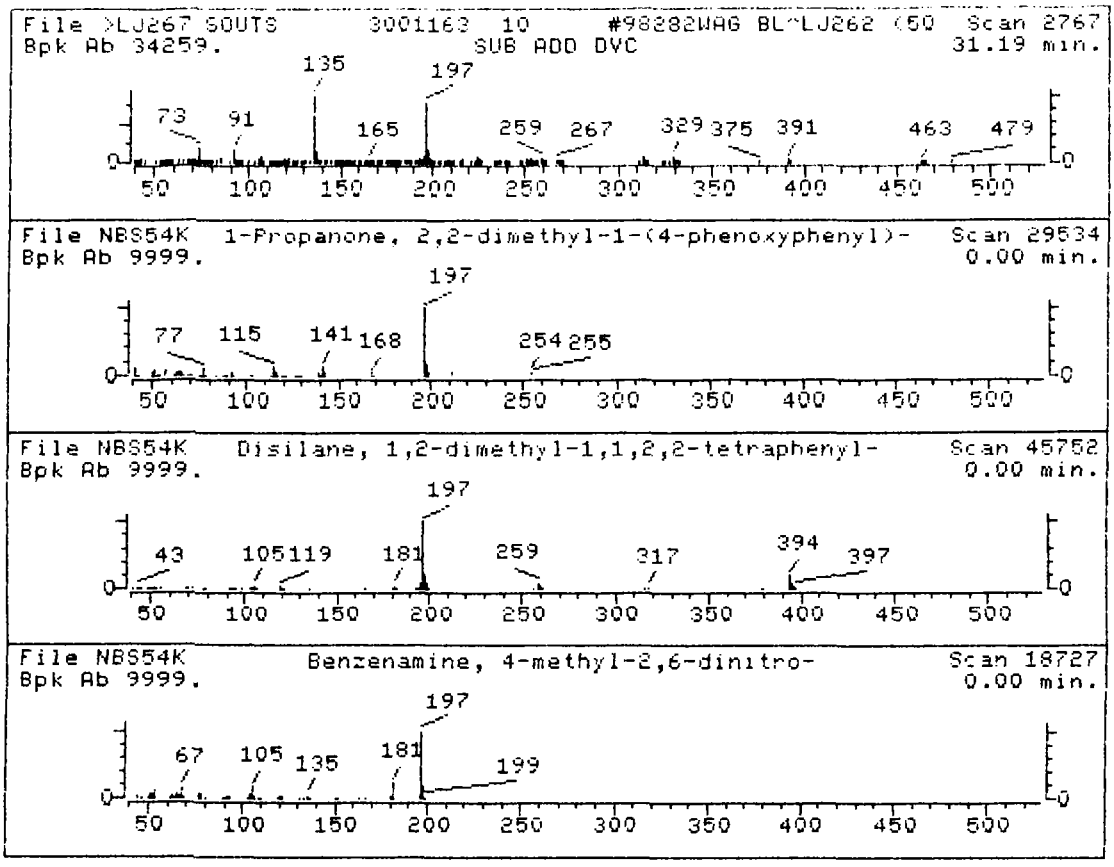
UNKNOWN
DS 10/14/98

1. [1,1'-Biphenyl]-4-amine, 4'-fluoro- 187 C12H10FN
2. (3-Cyanopropyl)cymantrene 271 C12H10MnNO3

Sample file: >LJ267 Spectrum #: 2683
Search speed: 3 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	15*	324936	27179	NBS54K	35	78	3	0	100	58	3	13
2.	15*	64848766	27279	NBS54K	27	99	2	0	100	58	3	14

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06754
Estimated Concentration: 8.08 ug/mL



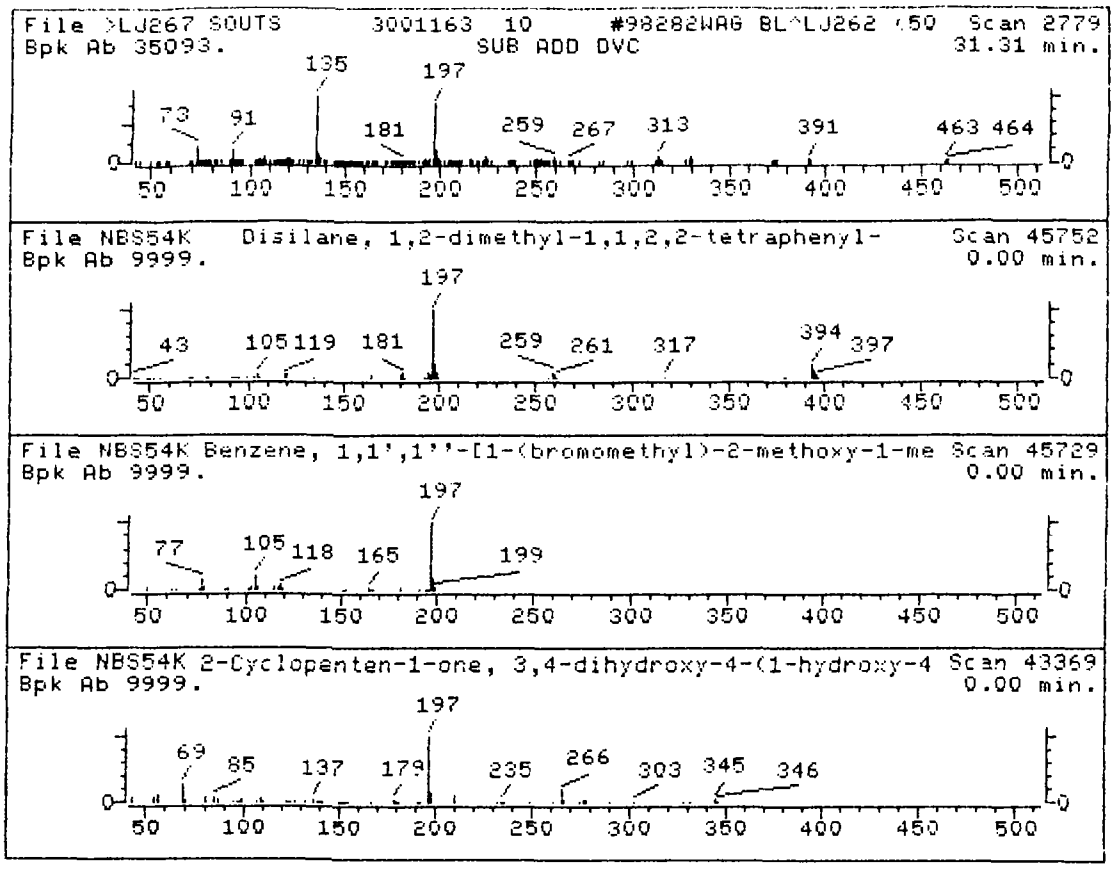
UNKNOWN
DE 10/14/98

1. 1-Propanone, 2,2-dimethyl-1-(4-phenoxyphenyl)- 254 C17H18O2
2. Disilane, 1,2-dimethyl-1,1,2,2-tetraphenyl- 394 C26H26Si2
3. Benzenamine, 4-methyl-2,6-dinitro- 197 C7H7N3O4

Sample file: >LJ267 Spectrum #: 2767
Search speed: 3 Tilting option: N No. of ion ranges searched: 188

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IO
1.	43*	55814545	29097	NBS54K	32	78	2	0	89	23	17	14
2.	42	1172765	49172	NBS54K	63	74	2	0	89	23	17	13
3.	42*	6393426	28981	NBS54K	23	91	2	0	89	23	17	13

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06754
Estimated Concentration: 7.09 ug/mL



UNKNOWN
DE 10/14/98

1. Disilane, 1,2-dimethyl-1,1,2,2-tetraphenyl- 394 C26H26Si2
2. Benzene, 1,1',1''-[1-(bromomethyl)-2-methoxy-1-methyl-1-ethanyl-2-ylidene]tris- 394 C23H23BrO
3. 2-Cyclopenten-1-one, 3,4-dihydroxy-4-(1-hydroxy-4-methyl-3-pentenyl)-5-(3-methyl-2-butenyl)-2-(3-methyl-1-oxobutyl)- 364 C21H32O5
4. Benzenamine, 4-methyl-2,6-dinitro- 197 C7H7N3O4
5. Benzene, 1-[2-bromo-1-(methoxydiphenylmethyl)ethyl]-4-methoxy- 410 C23H23BrO2
6. Benzene, 1,1',1''-[1-(bromomethyl)-2-methoxy-1-ethanyl-2-ylidene]tris- 380 C22H21BrO

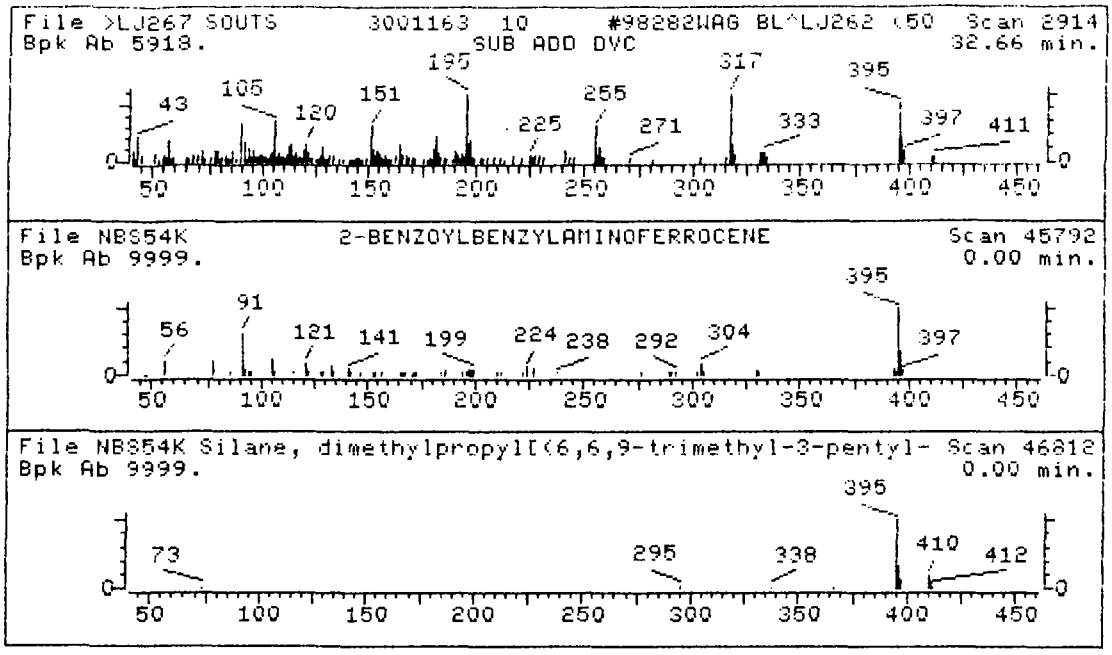
Sample file: >LJ267 Spectrum #: 2779
Search speed: 3 Tilting option: N No. of ion ranges searched: 178

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	44	1172765	49172	NBS54K	64	73	1	0	70	28	19	22
2.	41	55373938	29166	NBS54K	73	57	2	0	88	28	14	18
3.	37	16827080	29156	NBS54K	65	89	2	0	88	28	14	14
4.	37*	6393426	28981	NBS54K	28	86	2	0	88	28	14	14
5.	36	55268683	29169	NBS54K	62	66	2	0	88	28	14	13
6.	36	55282376	29160	NBS54K	62	57	2	0	88	28	14	13

Estimated Concentration : 6.66 ug/ml DE 10/14/98

197

Estimated Concentration: 6.66 ug/mL



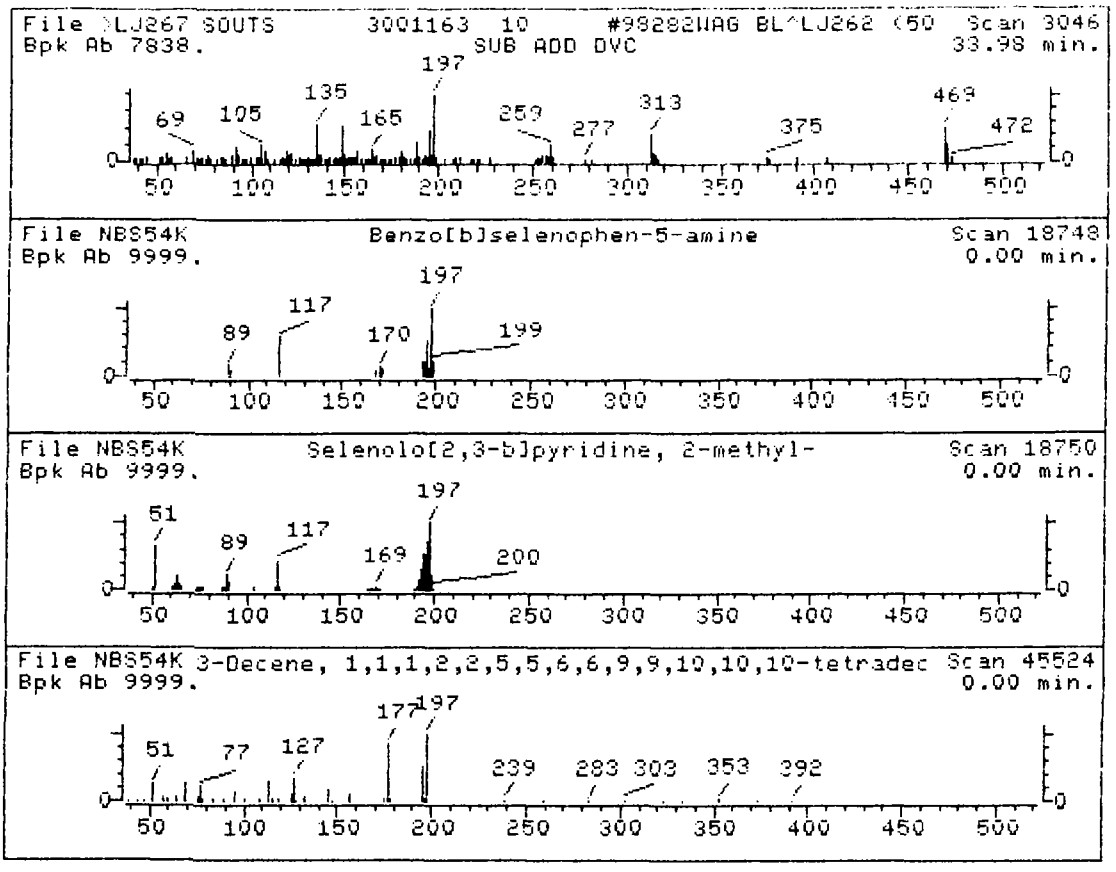
UNKNOWN
DB 10/14/98

1. 2-BENZOYLBENZYLAMINOFERROCENE 395 C24H21FeNO
2. Silane, dimethylpropyl[(6,6,9-trimethyl-3-pentyl-6H- 410 C26H38O2Si
dibenzo[b,d]pyran-1-yl)oxy]-

Sample file: >LJ267 Spectrum #: 2914
Search speed: 3 Tilting option: N No. of ion ranges searched: 50

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_1	R_IV
1.	12*	45792	49209	NBS54K	49	120	2	0	70	65	2	22
2.	11	65598336	49219	NBS54K	36	38	1	0	85	65	2	13

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06754
Estimated Concentration: 7.93 ug/mL



UNKNOWN
JG 10/14/98

1. Benzo[b]selenophen-5-amine 197 C8H7NSe
2. Selenolo[2,3-b]pyridine, 2-methyl- 197 C8H7NSe
3. 3-Decene, 1,1,1,2,2,5,5,6,6,9,9,10,10,10-tetradecafluoro- 392 C10H6F14

Sample file: >LJ267 Spectrum #: 3046
Search speed: 3 Tilting option: N No. of ion ranges searched: 47

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	20*	30697166	28994	NBS54K	25	82	3	0	92	54	5	13
2.	20*	55108571	28996	NBS54K	34	118	3	0	90	54	5	13
3.	20*	35208083	29163	NBS54K	26	140	2	0	94	54	5	14

Sample # 3001163 Injected 10/12/98 at 15:32 on Instrument # HP06754
Estimated Concentration: 7.73 ug/mL

Raw QC Data

Lancaster Laboratories
Quantitation Report-GC/MS Semi-Volatiles

LLI#: SBLKDB282

File: >LJ263 Injected at: 11:59 10/12/98 Calibration time: 09:56 10/12/98 Method: APPENDIX9
Sample: SBLKDB282L SBLKDB282 Instrument ID: HP06754 Matrix: SOIL
Dilution factor: 1.0 Batch: 98282SDB Blank: ^LJ263
Standard Reference: ^LJ261 GPC Cleanup: No Volume injected: 1 ul
ID File : IDAPPL Sample Wt/Vol.: 1 G Final Ext. Vol. : 5 mL

#	Internal Standards	R.T. (+/-RT)	Scan	Qion	Area(+/-%Area)	Conc(ext)	QC Flag	Conc Units = ng/ul
1.	1,4-Dichlorobenzene-d4	11.27(.0024)	782.	152	161019.(-8)	40.0		
28.	Naphthalene-d8	14.91(-.001)	1150.	136	593743.(-4)	40.0		
50.	Acenaphthene-d10	20.15(-.006)	1679.	164	328973.(-5)	40.0		
81.	Phenanthrene-d10	24.62(-.006)	2131.	188	598178.(-5)	40.0		
102.	Chrysene-d12	31.41(-.007)	2817.	240	562608.(-8)	40.0		
114.	Perylene-d12	35.15(-.008)	3195.	264	382340.(-12)	40.0		

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD AREA OUT OF RANGE NC = NOT ABLE TO CALCULATE--NO STANDARD.

#	Surrogate Standards	R.T. (+/-RRT)	Scan	Qion	Area	Conc(samp)	%Rec.	Q	QC Limits
7.	2-Fluorophenol	7.735(-.000)	425.	112	2108347.	205.24	103		35 - 108
10.	Phenol-d6	10.27(-.001)	681.	99.	2985112.	201.28	101		39 - 108
29.	Nitrobenzene-d5	12.83(-.001)	940.	82.	1303234.	98.78	99		31 - 126
55.	2-Fluorobiphenyl	18.16(-.000)	1478.	172	994567.	96.00	96		45 - 113
80.	2,4,6-Tribromophenol	22.53(-.001)	1920.	330	366543.	223.66	112		23 - 125
104.	Terphenyl-d14	29.02(-.000)	2576.	244	1072249.	101.94	102		37 - 130

= RELATIVE RETENTION TIME OUT OF RANGE * = %REC OUT OF RANGE D = SURROGATES DILUTED OUT NC = COULD NOT CALCULATE

#	Target Compounds	R.T.(+/-RRT)	Scan	Qion	Area	Conc(ext)	Conc(samp)	Conc. Blank	Q	MDL(ext)

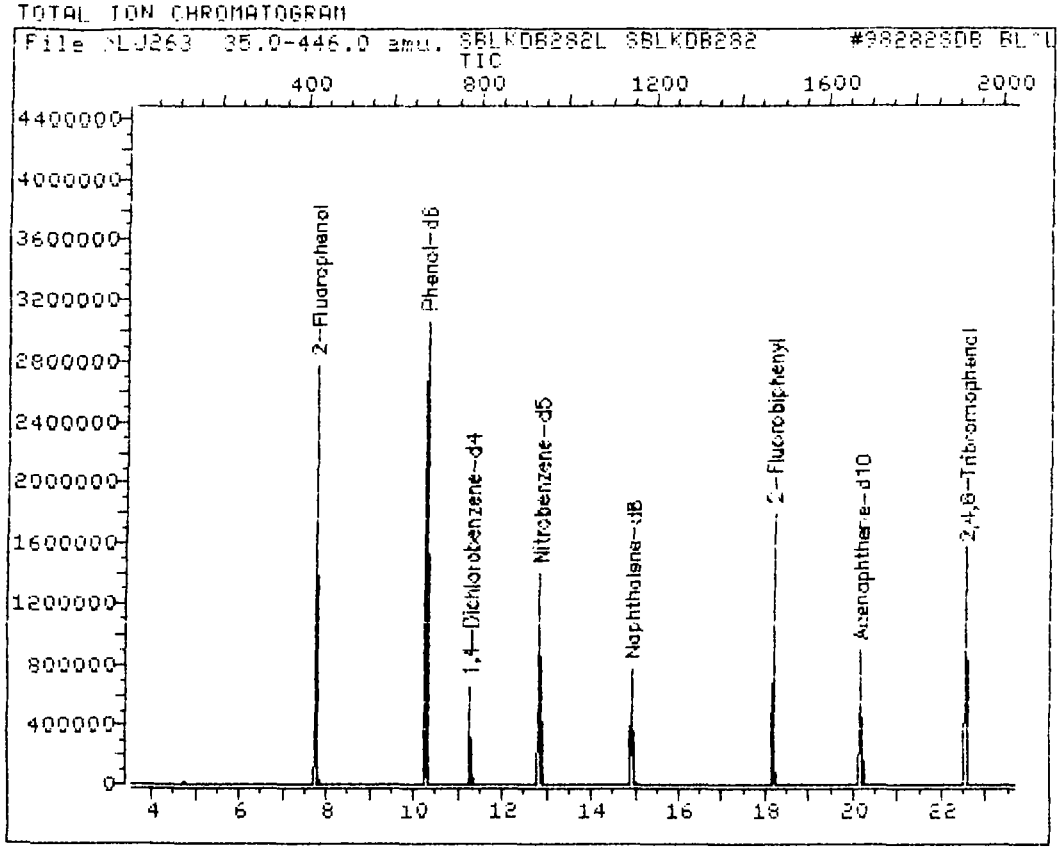
E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE NUMBER OF TARGETS = 0

Comments: _____

Analyst: _____ Date: 10/19/98
Auditor: _____ Date: 10-20-98

PAGE 1 OF 1

TOTAL ION CHROMATOGRAM



Data File: >LJ263::A2 Quant Output File: ^LJ263::QF
Name: SBLKDB282L SBLKDB282 Instrument ID: HP06754
Misc: #98282SDB BL^LJ263 (1,5)

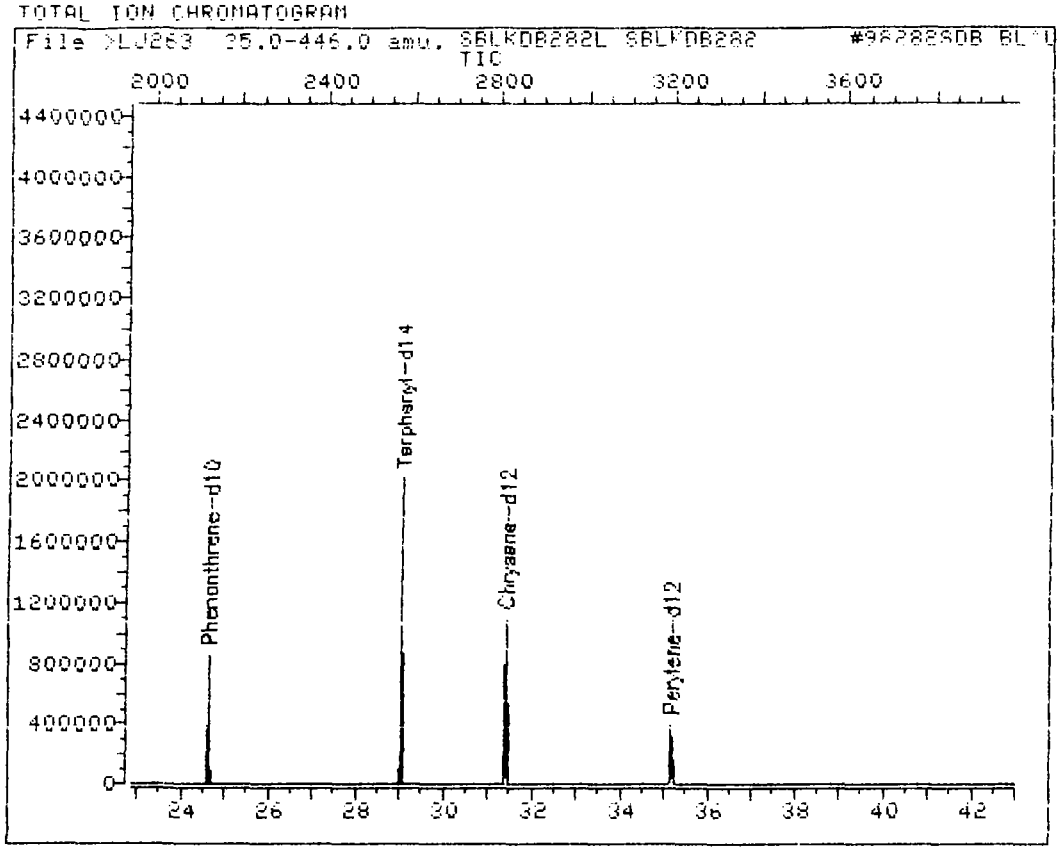
Id File: IDAPPL::DB
Title: IDAPPL
Last Calibration: 981009 18:23 Last Qcal Time: 981012 09:56

Operator ID: DJE_526
Quant Time : 981012 12:44
Injected at: 981012 11:59

Page 1 of 2

DJ383
10/19/98

TOTAL ION CHROMATOGRAM



Data File: >LJ263::A2 Quant Output File: ^LJ263::QF
Name: SBLKDB282L SBLKDB282 Instrument ID: HP06754
Misc: #98282SDB BL^LJ263 (1,5)

Id File: IDAPPL::DB
Title: IDAPPL
Last Calibration: 981009 18:23 Last Qcal Time: 981012 09:56

Operator ID: DJE_526
Quant Time : 981012 12:44
Injected at: 981012 11:59

Page 2 of 2

TJ7383
10/19/98

QUANT REPORT

Operator ID: DJE_526 Quant Rev: 7 Quant Time: 981012 12:44
Output File: ^LJ263::QF Injected at: 981012 11:59
Data File: >LJ263::A2 Dilution Factor: 1.00000
Name: SBLKDB282L SBLKDB282 Instrument ID: HP06754
Misc: #98282SDB BL^LJ263 (1,5)

ID File: IDAPPL::DB
Title: IDAPPL
Last Calibration: 981009 18:23 Last Qcal Time: 981012 09:56

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	11.27	152.0	161019	40.00	ug/ul	100
7)	2-Fluorophenol	7.73	112.0	2108347	205.24	ug/ul	100
10)	Phenol-d6	10.27	99.0	2985112	201.28	ug/ul	100
28)	*Naphthalene-d8	14.91	136.0	593743	40.00	ug/ul	100
29)	Nitrobenzene-d5	12.83	82.0	1303234	98.78	ug/ul	100
50)	*Acenaphthene-d10	20.15	164.0	328973	40.00	ug/ul	95
55)	2-Fluorobiphenyl	18.16	172.0	994567	96.00	ug/ul	100
80)	2,4,6-Tribromophenol	22.53	329.7	366543	223.66	ug/ul	100
81)	*Phenanthrene-d10	24.62	188.0	598178	40.00	ug/ul	98
102)	*Chrysene-d12	31.41	240.0	562608	40.00	ug/ul	91
104)	Terphenyl-d14	29.02	244.0	1072249	101.94	ug/ul	100
114)	*Perylene-d12	35.15	264.0	382340	40.00	ug/ul	98

* Compound is ISTD

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKDB282L

Lab Name: LANCASTER LABS Contract: _____.

Lab Code: LANCAS Case No.: _____. SAS No.: _____. SDG No.: _____.

Matrix: (soil/water) Lab Sample ID: SBLKDB282

Sample wt/vol: 1 (g/mL) ML Lab File ID: >LJ263

Level: (low/med) Date Received:

% Moisture: not dec. _____. dec. _____. Date Extracted: 10/09/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 10/12/98

GPC Cleanup: (Y/N) N pH: _____. Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				

FORM I SV-TIC 1/87 Rev.

LANCASTER LABORATORIES, INC.

GC/MS EXTRACTABLES UNKNOWN PEAK SEARCH REPORT

File >LJ263 LLI# SBLKDB282 Client ID SBLKDB282L Injected 10/12/98 at 11:59

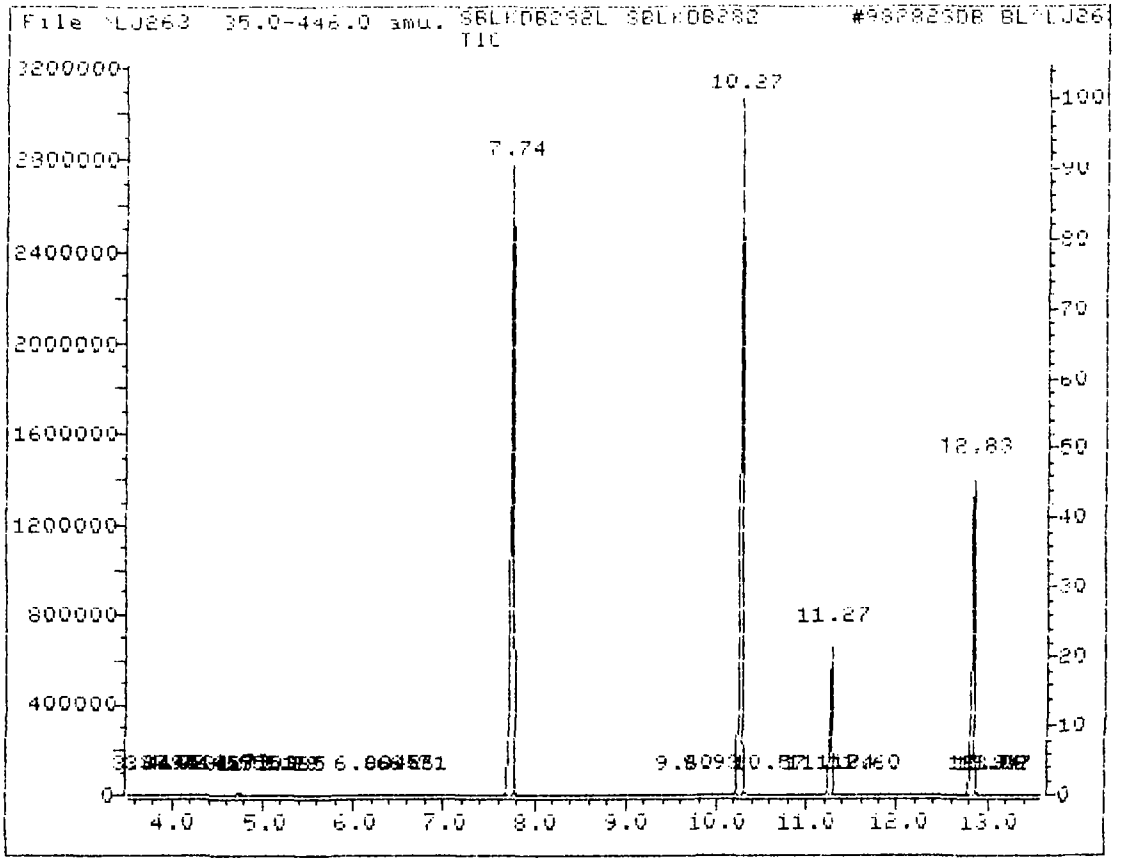
INTERNAL STANDARD SUMMARY

Standard	Concentration	Area	Retention Time	Unknown Window
1	40.0	1412191	11.27	START - 13.09
2	40.0	1685557	14.91	13.09 - 17.53
3	40.0	1860364	20.15	17.53 - 22.38
4	40.0	2005950	24.62	22.38 - 26.01
5	40.0	2011091	31.41	28.01 - 33.28
6	40.0	1296276	35.15	33.28 - END

$$\text{Unknown Concentration} = \frac{\text{Conc Int Std}}{\text{Area Int Std}} * \text{Area Unknown}$$

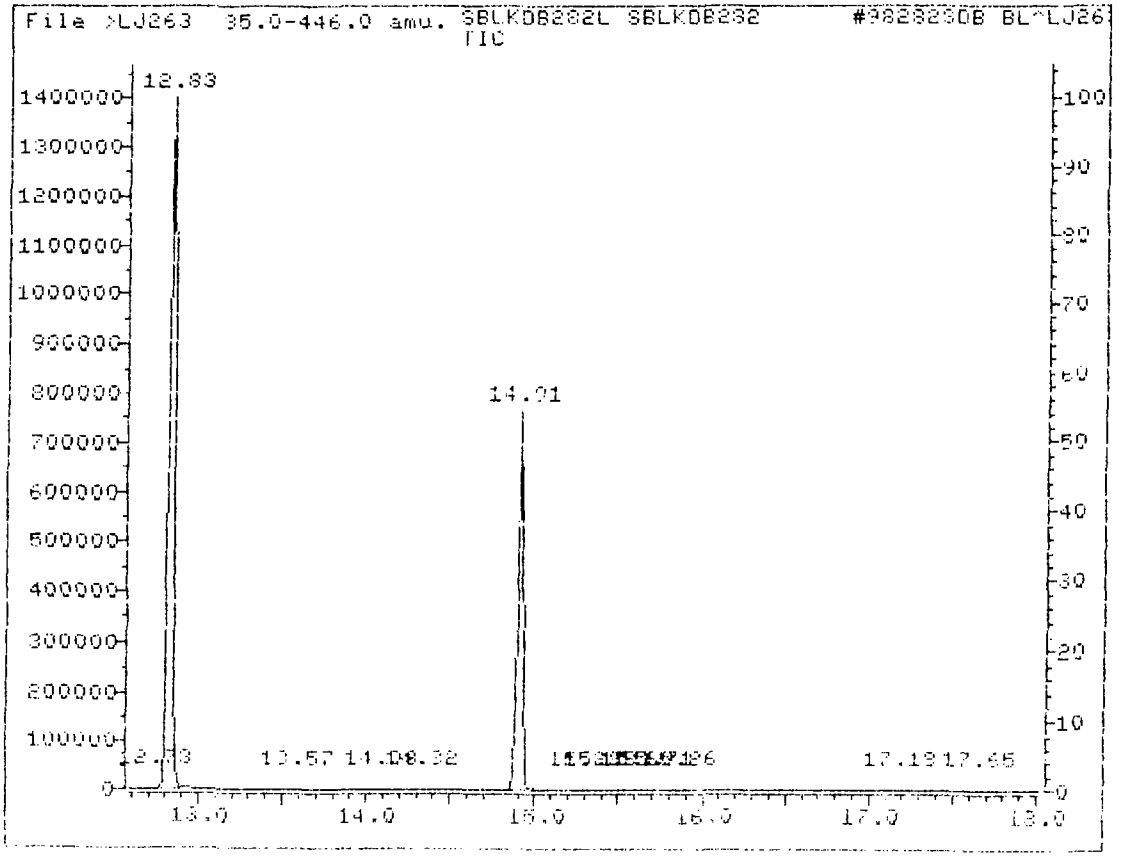
UNKNOWN PEAK SUMMARY FOR SAMPLE SBLKDB282 ANALYZED ON INSTRUMENT #HP06754

THERE WERE NO PEAKS WITH AREAS >10% OF INTERNAL STANDARD AREA

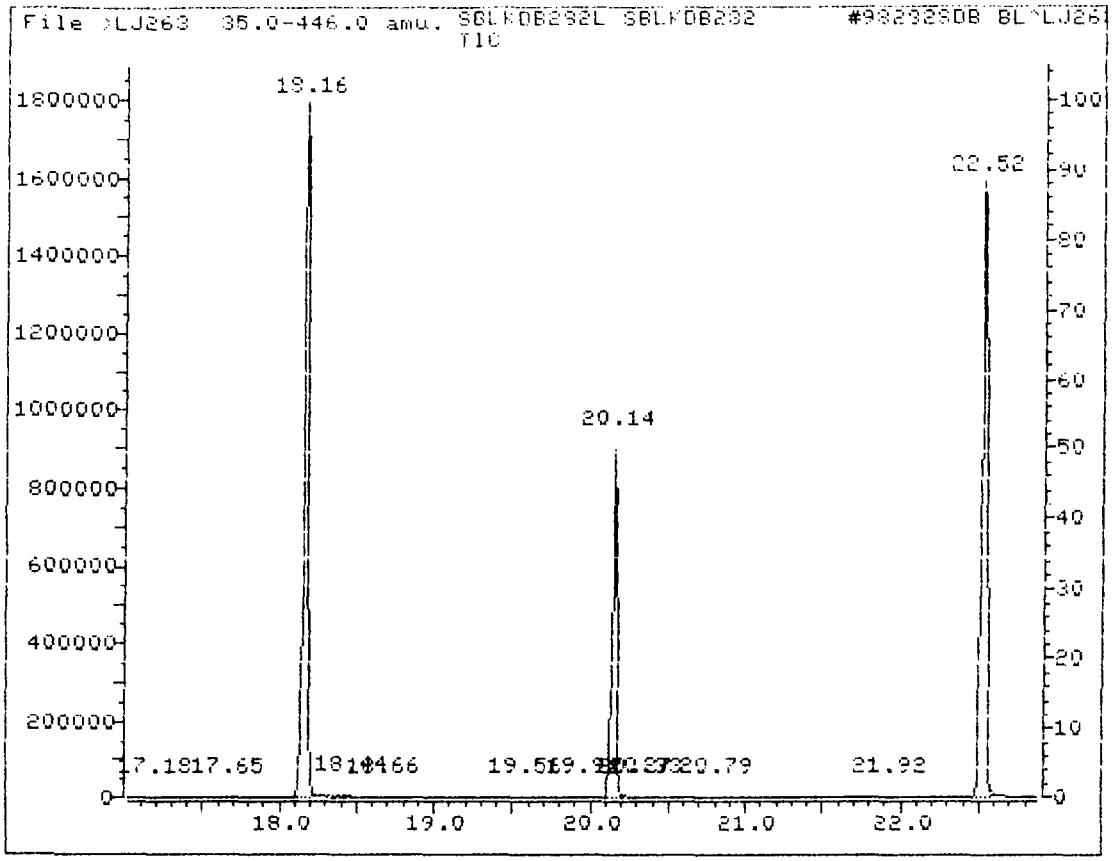


INSTRUMENT ID HP06754

ANALYSIS DATE/TIME 10/12/98 11:59

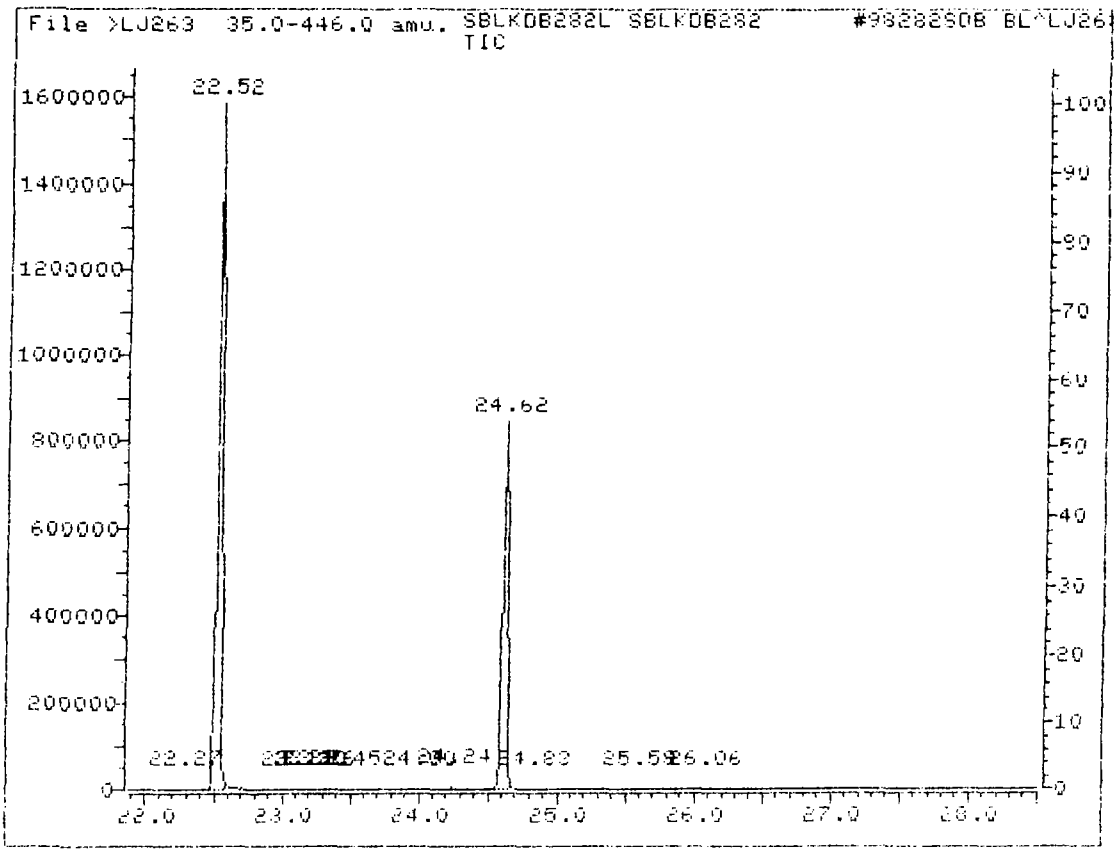


TJT383
10/20/98

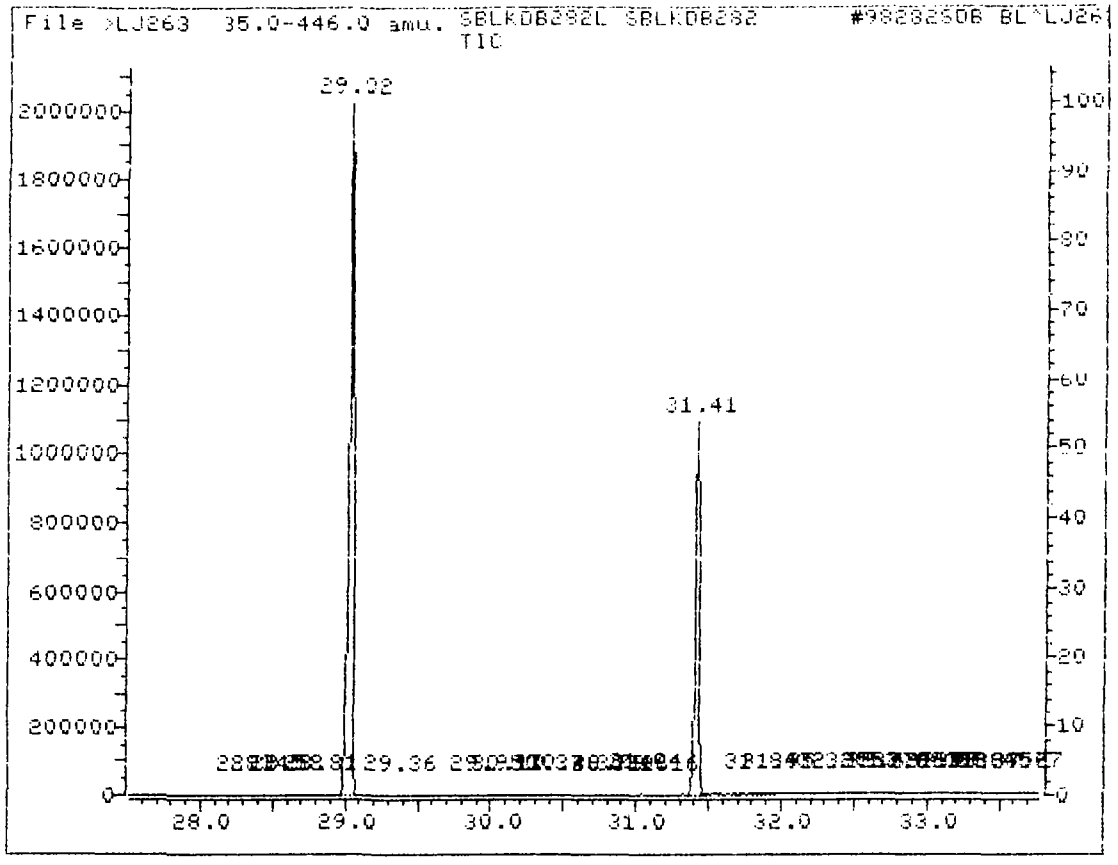


INSTRUMENT ID HP06754

ANALYSIS DATE/TIME 10/12/98 11:59

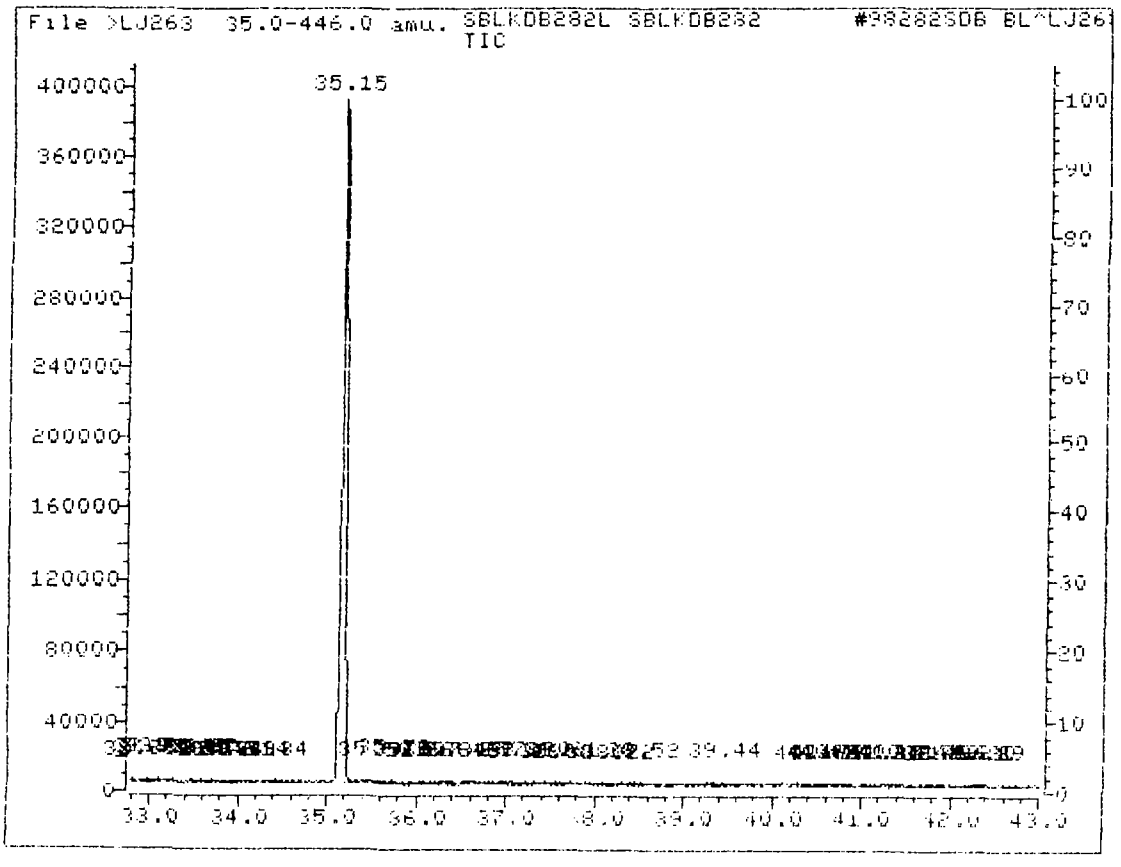


TJT383
10/20/98



INSTRUMENT ID HP06754

ANALYSIS DATE/TIME 10/12/98 11:59



TJ1383
10/20/98

Lancaster Laboratories
Quantitation Report-GC/MS Semi-Volatiles

LLI#: SBLKWG282

File: >LJ262 Injected at: 11:06 10/12/98 Calibration time: 09:56 10/12/98 Method: APPENDIX9
Sample: SBLKWG282L SBLKWG282 Instrument ID: HP06754 Matrix: WATER
Dilution factor: 1.0 Batch: 98282WAG Blank: ^LJ262
Standard Reference: ^LJ261 GPC Cleanup: No Volume injected: 1 ul
ID File : IDAPPL Sample Wt/Vol.: 1000 mL Final Ext. Vol. : 5 mL

#	Internal Standards	R.T. (+/-RT)	Scan	Qion	Area(+/-%Area)	Conc(ext)	QC Flag	Conc Units = ng/ul
1.	1,4-Dichlorobenzene-d4	11.27(.0016)	782.	152	149118.(-15)	40.0		
28.	Naphthalene-d8	14.91(-.002)	1150.	136	543191.(-12)	40.0		
50.	Acenaphthene-d10	20.14(-.009)	1679.	164	297519.(-14)	40.0		
81.	Phenanthrene-d10	24.62(-.010)	2131.	188	537561.(-15)	40.0		
102.	Chrysene-d12	31.40(-.011)	2817.	240	500560.(-18)	40.0		
114.	Perylene-d12	35.16(-.002)	3196.	264	333818.(-23)	40.0		

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD AREA OUT OF RANGE NC = NOT ABLE TO CALCULATE--NO STANDARD.

#	Surrogate Standards	R.T. (+/-RRT)	Scan	Qion	Area	Conc(samp)	%Rec.	Q	QC Limits
7.	2-Fluorophenol	0.000(.0000)	0.	112	0.	0.00	0	D	25 - 88
10.	Phenol-d6	0.000(.0000)	0.	99.	0.	0.00	0	D	7 - 74
29.	Nitrobenzene-d5	0.000(.0000)	0.	82.	0.	0.00	0	D	47 - 114
55.	2-Fluorobiphenyl	0.000(.0000)	0.	172	0.	0.00	0	D	51 - 106
80.	2,4,6-Tribromophenol	0.000(.0000)	0.	330	0.	0.00	0	D	34 - 125
104.	Terphenyl-d14	29.01(-.000)	2575.	244	159.	.08	0	D	37 - 119 *

= RELATIVE RETENTION TIME OUT OF RANGE * = %REC OUT OF RANGE D = SURROGATES DILUTED OUT NC = COULD NOT CALCULATE

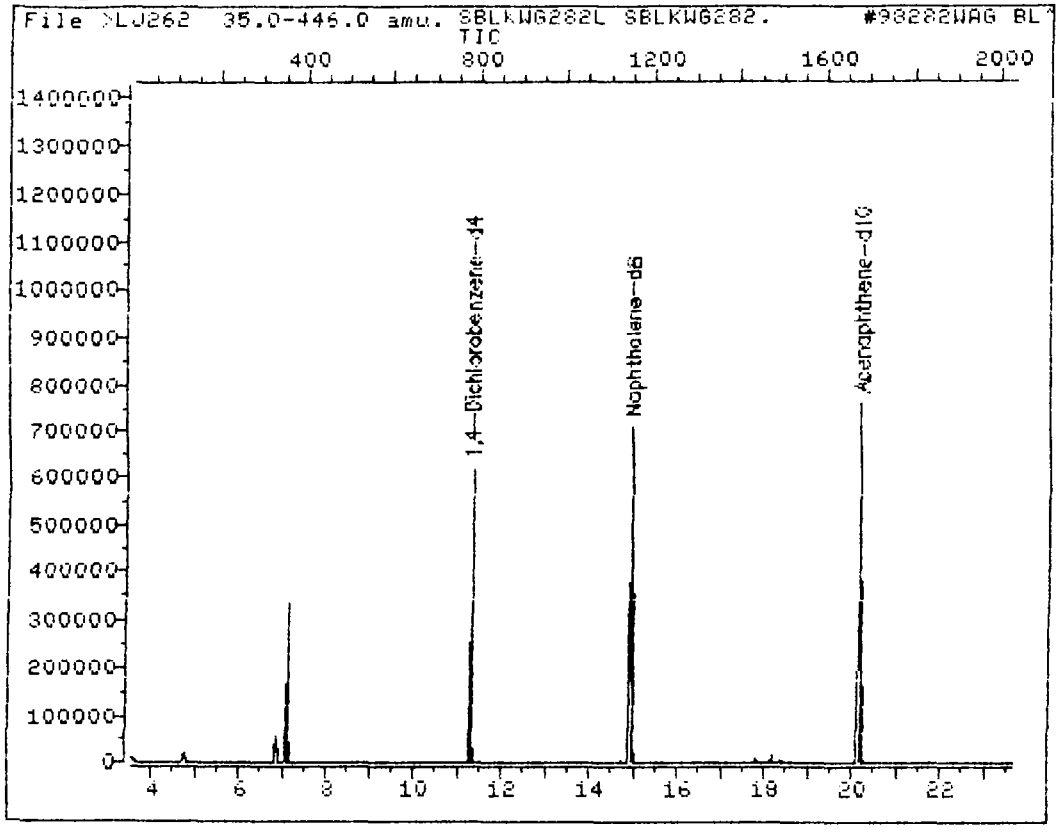
#	Target Compounds	R.T.(+/-RRT)	Scan	Qion	Area	Conc(ext)	Conc(samp)	Conc. Blank	Q	MDL(ext)

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE NUMBER OF TARGETS = 0

Comments: None Reported on chrom

Analyst: [signature] Date: 10-21-98
Auditor: [signature] Date: 10-15-98

TOTAL ION CHROMATOGRAM



Data File: >LJ262::A2 Quant Output File: ^LJ262::QF
Name: SBLKWG282L SBLKWG282 Instrument ID: HP06754
Misc: . #98282WAG BL^LJ262 (1000,5)

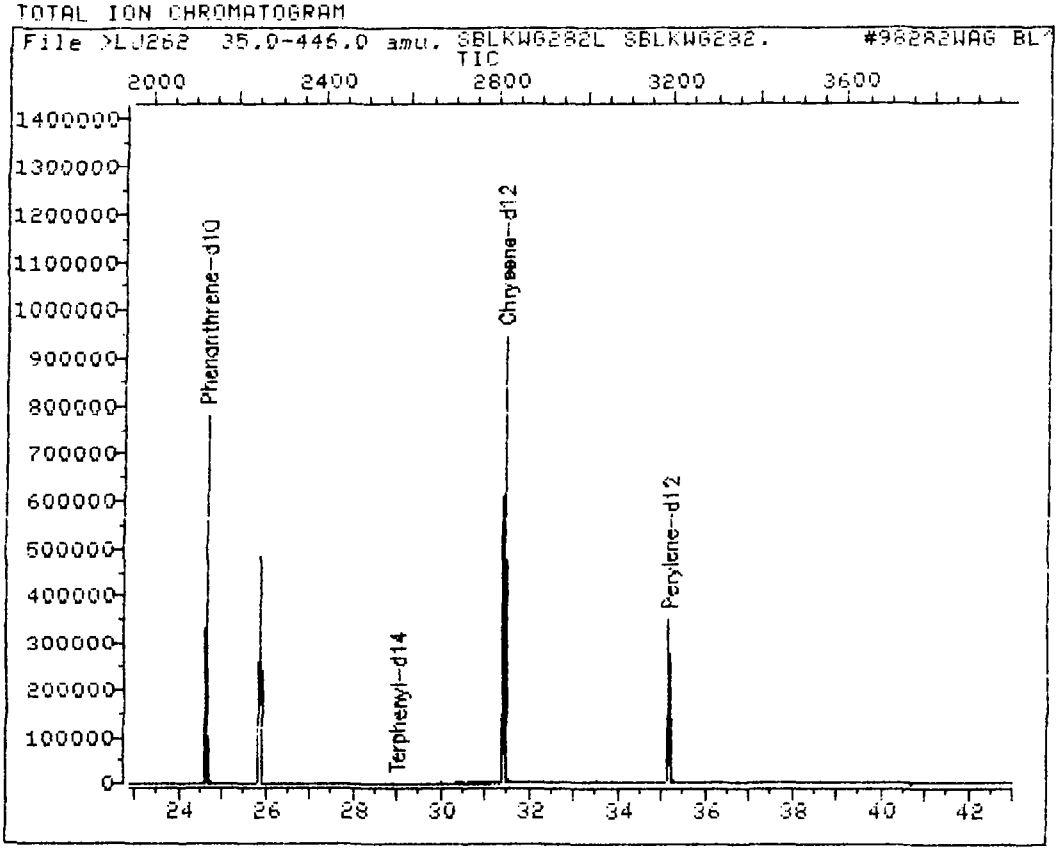
Id File: IDAPPL::DB
Title: IDAPPL
Last Calibration: 981009 18:23 Last Qcal Time: 981012 09:56

Operator ID: DJE_526
Quant Time : 981012 11:50
Injected at: 981012 11:06

Page 1 of 2

10/12/98

TOTAL ION CHROMATOGRAM



Data File: >LJ262::A2 Quant Output File: ^LJ262::QF
Name: SBLKWG282L SBLKWG282 Instrument ID: HP06754
Misc: . #98282WAG BL^LJ262 (1000,5)

Id File: IDAPPL::DB
Title: IDAPPL
Last Calibration: 981009 18:23 Last Qcal Time: 981012 09:56

Operator ID: DJE_526
Quant Time : 981012 11:50
Injected at: 981012 11:06

Page 2 of 2

10/12/98

QUANT REPORT

Operator ID: DJE_526 Quant Rev: 7 Quant Time: 981012 11:50
Output File: ^LJ262::QF Injected at: 981012 11:06
Data File: >LJ262::A2 Dilution Factor: 1.00000
Name: SBLKWG282L SBLKWG282 Instrument ID: HP06754
Misc: . #98282WAG BL^LJ262 (1000,5)

ID File: IDAPPL::DB
Title: IDAPPL
Last Calibration: 981009 18:23 Last Qcal Time: 981012 09:56

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	11.27	152.0	149118	40.00	ug/ul	100
28)	*Naphthalene-d8	14.91	136.0	543191	40.00	ug/ul	100
50)	*Acenaphthene-d10	20.14	164.0	297519	40.00	ug/ul	96
81)	*Phenanthrene-d10	24.62	188.0	537561	40.00	ug/ul	54
102)	*Chrysene-d12	31.40	240.0	500560	40.00	ug/ul	89
104)	Terphenyl-d14	29.01	244.0	159	.0170	ug/ul	100 *
114)	*Perylene-d12	35.16	264.0	333818	40.00	ug/ul	99

* Compound is ISTD

* FALSE Positive DE 10/15/98

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKWG282L

Lab Name: LANCASTER LABS Contract: _____.

Lab Code: LANCAS Case No.: _____. SAS No.: _____. SDG No.: _____.

Matrix: (soil/water) WATER Lab Sample ID: SBLKWG282

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >LJ262

Level: (low/med) LOW Date Received:

% Moisture: not dec. _____. dec. _____. Date Extracted: 10/09/98

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/12/98

GPC Cleanup: (Y/N) N pH: _____. Dilution Factor: 5.0

Number TICs found: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	123422	2-Pentanone, 4-hydroxy-4-met	6.82	22.	AJ
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					

FORM I SV-TIC 1/87 Rev.

LANCASTER LABORATORIES, INC.

GC/MS EXTRACTABLES UNKNOWN PEAK SEARCH REPORT

File >LJ262 LLI# SBLKWG282 Client ID SBLKWG282L Injected 10/12/98 at 11:06

INTERNAL STANDARD SUMMARY

Standard	Concentration	Area	Retention Time	Unknown Window
1	40.0	1303330	11.27	START - 13.09
2	40.0	1549394	14.91	13.09 - 17.53
3	40.0	1684186	20.14	17.53 - 22.38
4	40.0	1806979	24.62	22.38 - 28.01
5	40.0	1790106	31.40	28.01 - 33.28
6	40.0	1129915	35.16	33.28 - END

$$\text{Unknown Concentration} = \frac{\text{Conc Int Std}}{\text{Area Int Std}} * \text{Area Unknown}$$

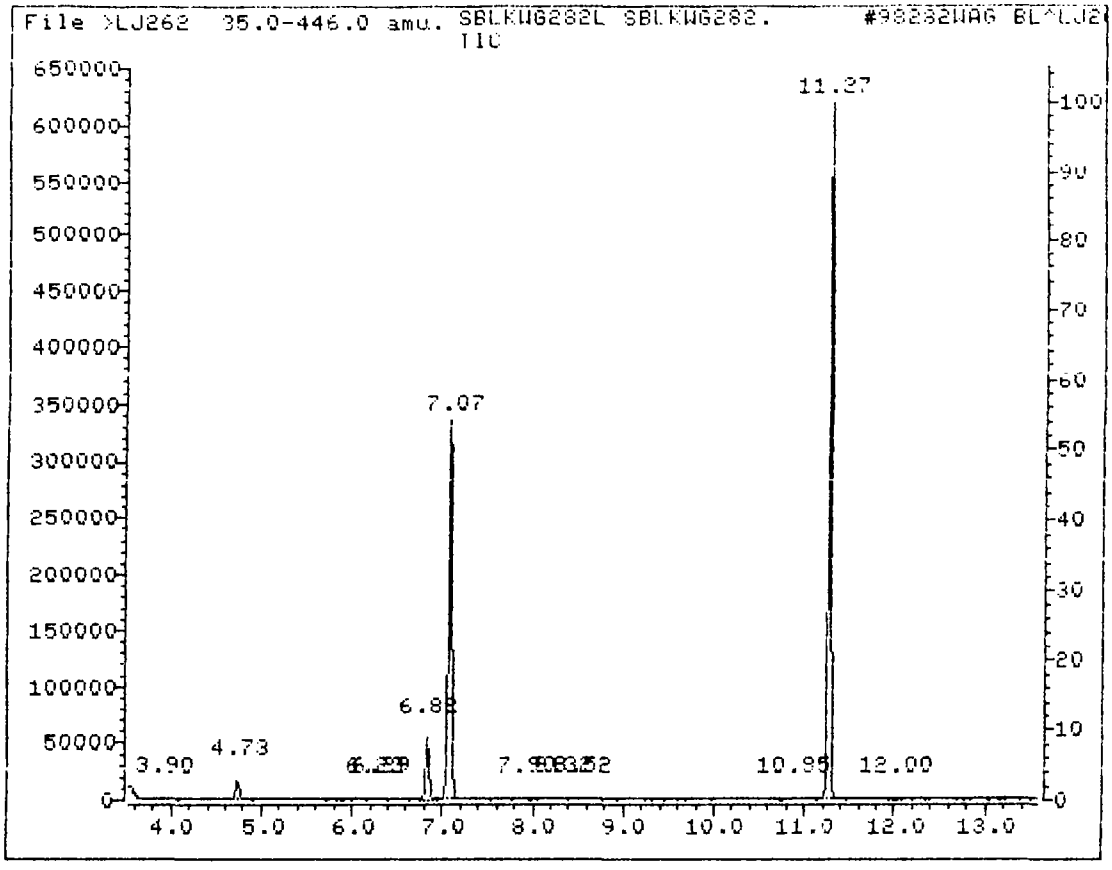
UNKNOWN PEAK SUMMARY FOR SAMPLE SBLKWG282 ANALYZED ON INSTRUMENT #HP06754

UNKNOWN	RETENTION TIME	FIRST SCAN	MAX SCAN	LAST SCAN	PEAK AREA	#ESTIMATED CONCENTRATION
1	6.82	326	333	344	145176	4.46ug/mL
*2	7.07	352	358	366	849454	26.07ug/mL
**3	25.83	2248	2254	2260	1126325	24.93ug/mL

Values in this report reflect concentration in sample extract.
For estimated sample concentrations, see FORM 1F

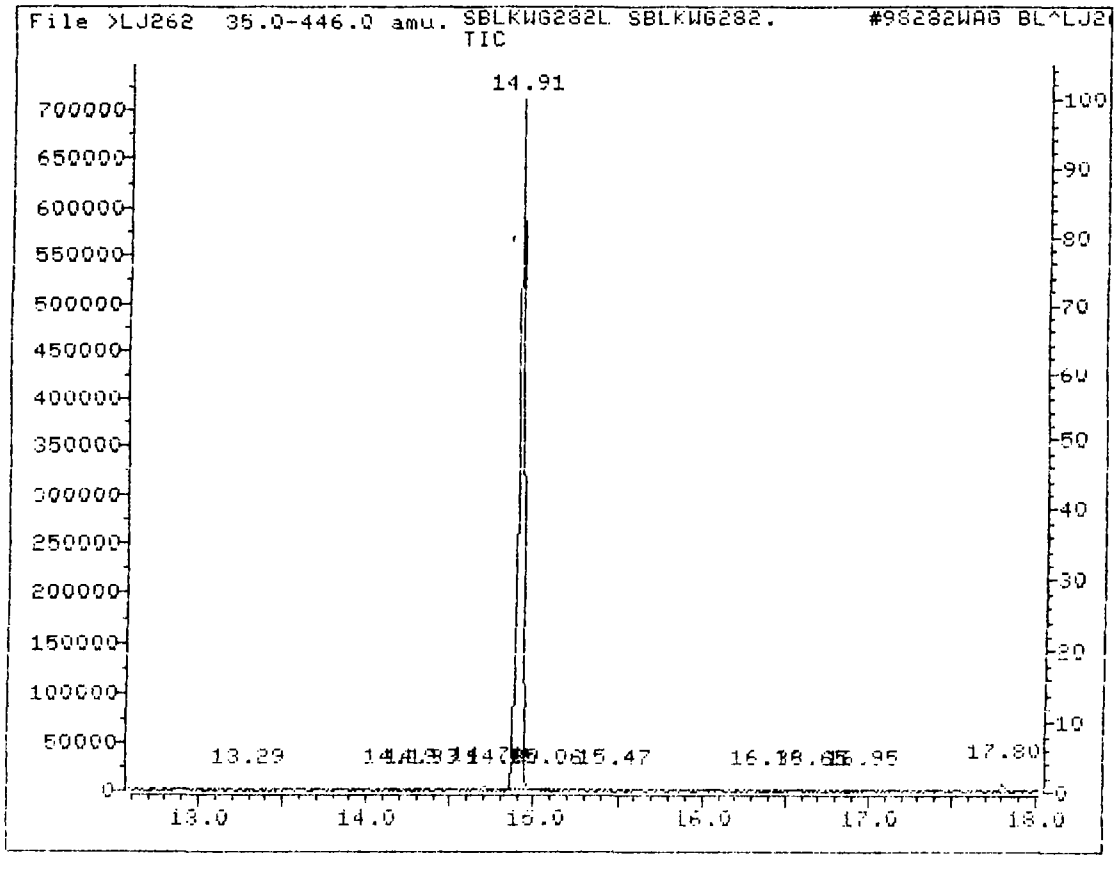
* VOA DO NOT REPORT

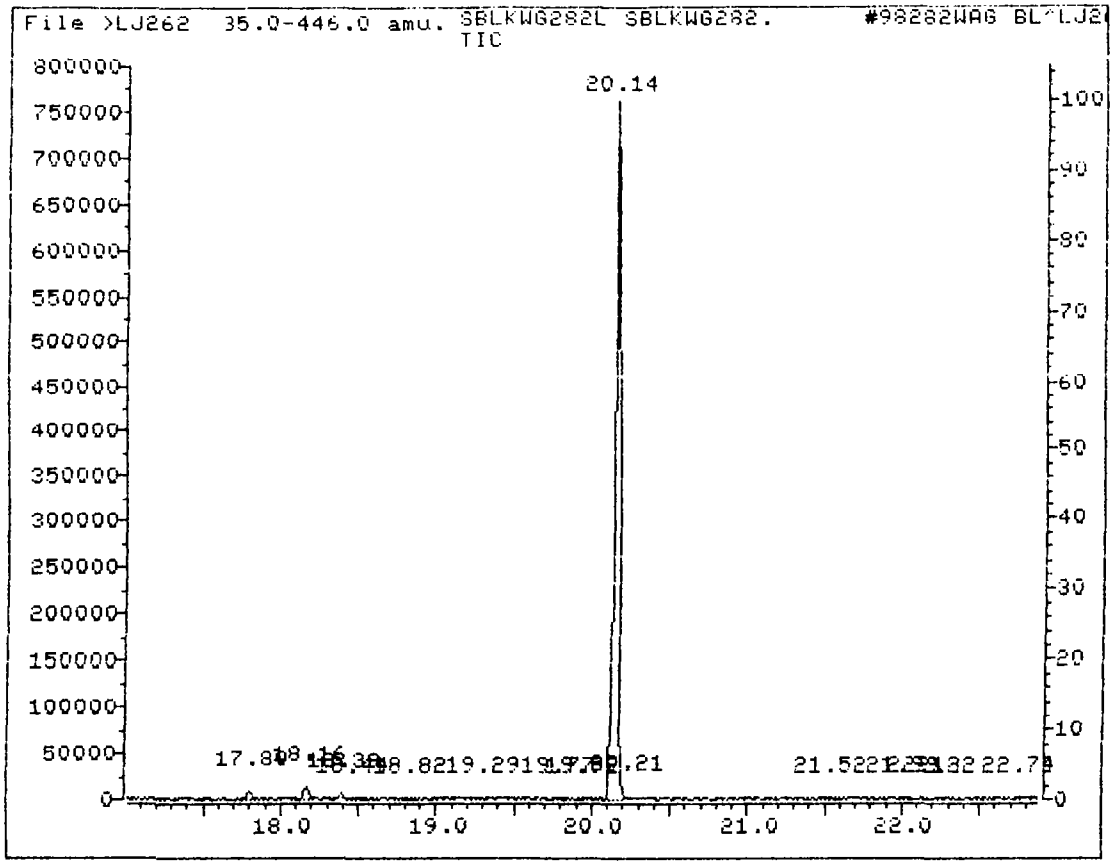
** SURROGATE FOR TPH DO NOT REPORT DJG/SZL 10/14/98



INSTRUMENT ID HP06754

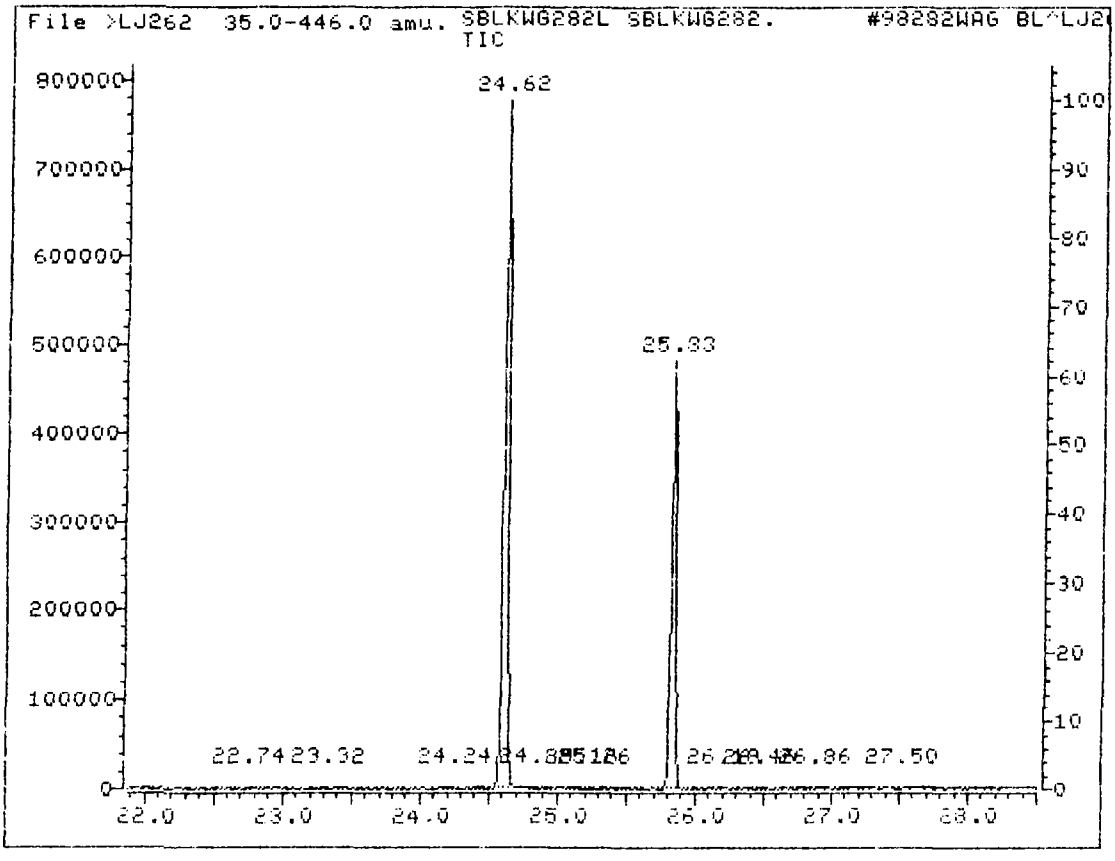
ANALYSIS DATE/TIME 10/12/98 11:06

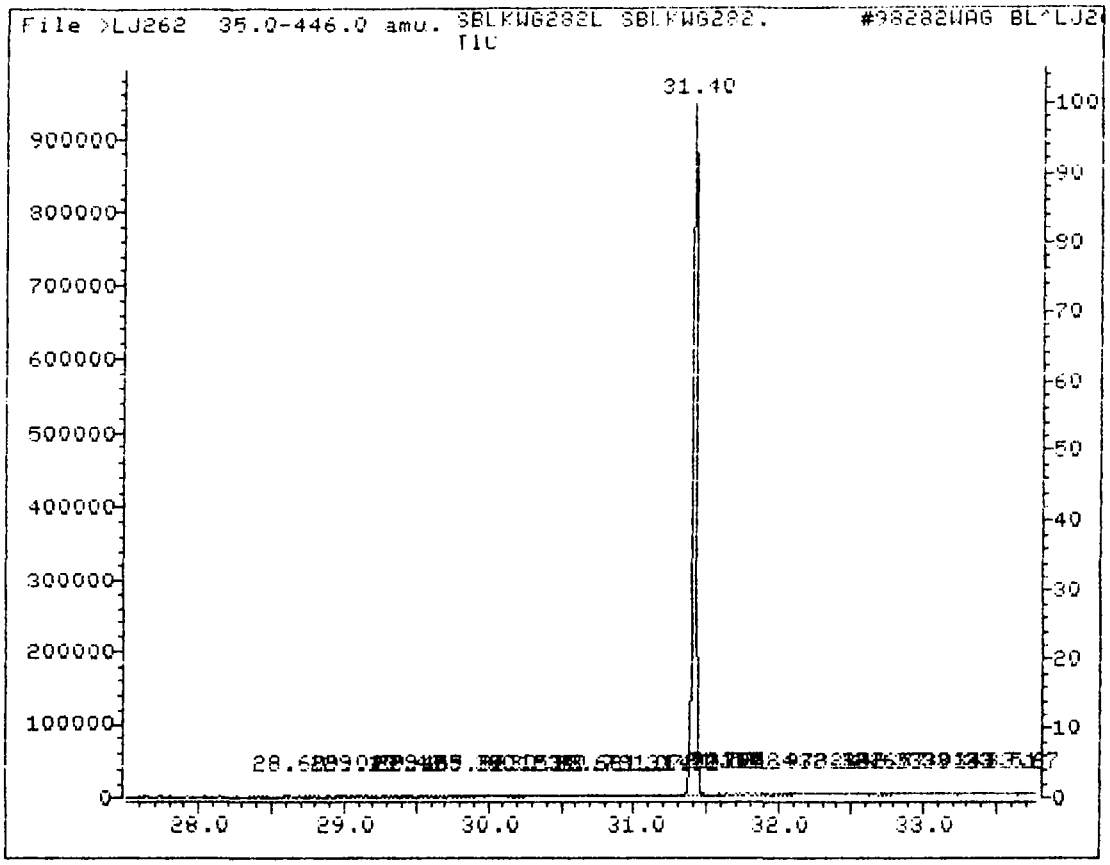




INSTRUMENT ID HP06754

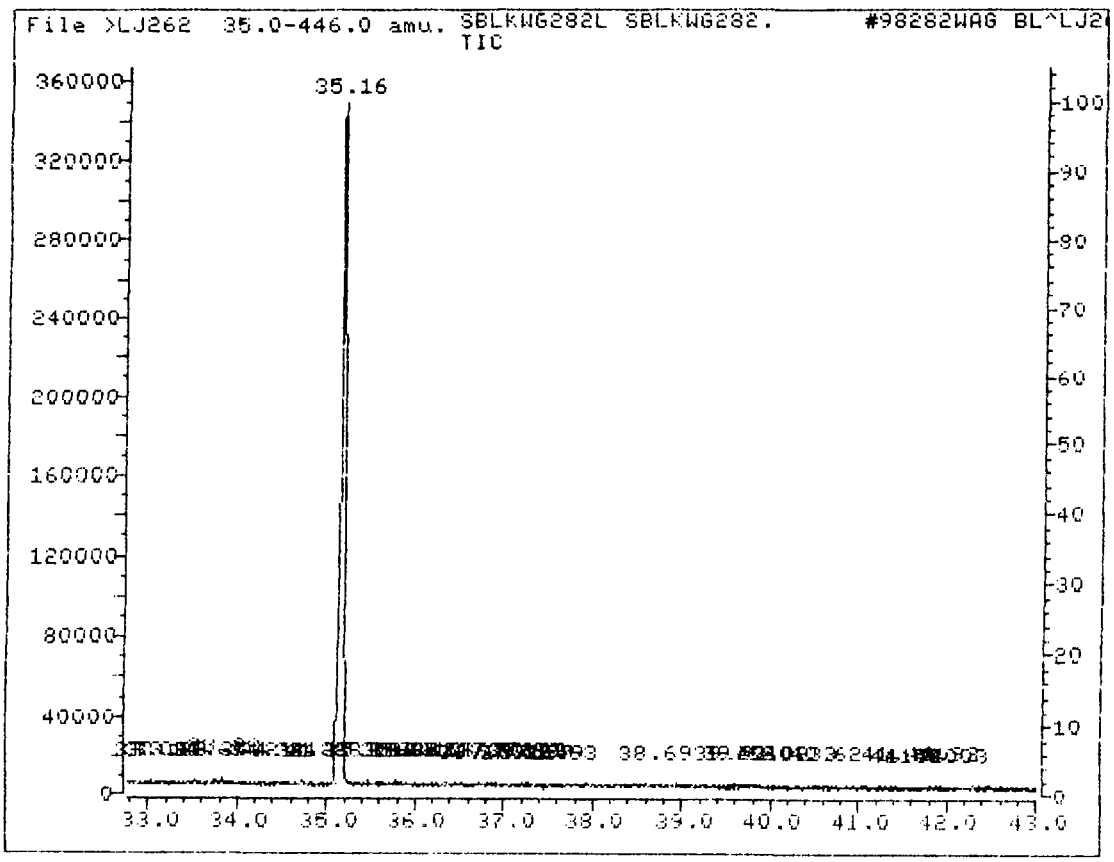
ANALYSIS DATE/TIME 10/12/98 11:06

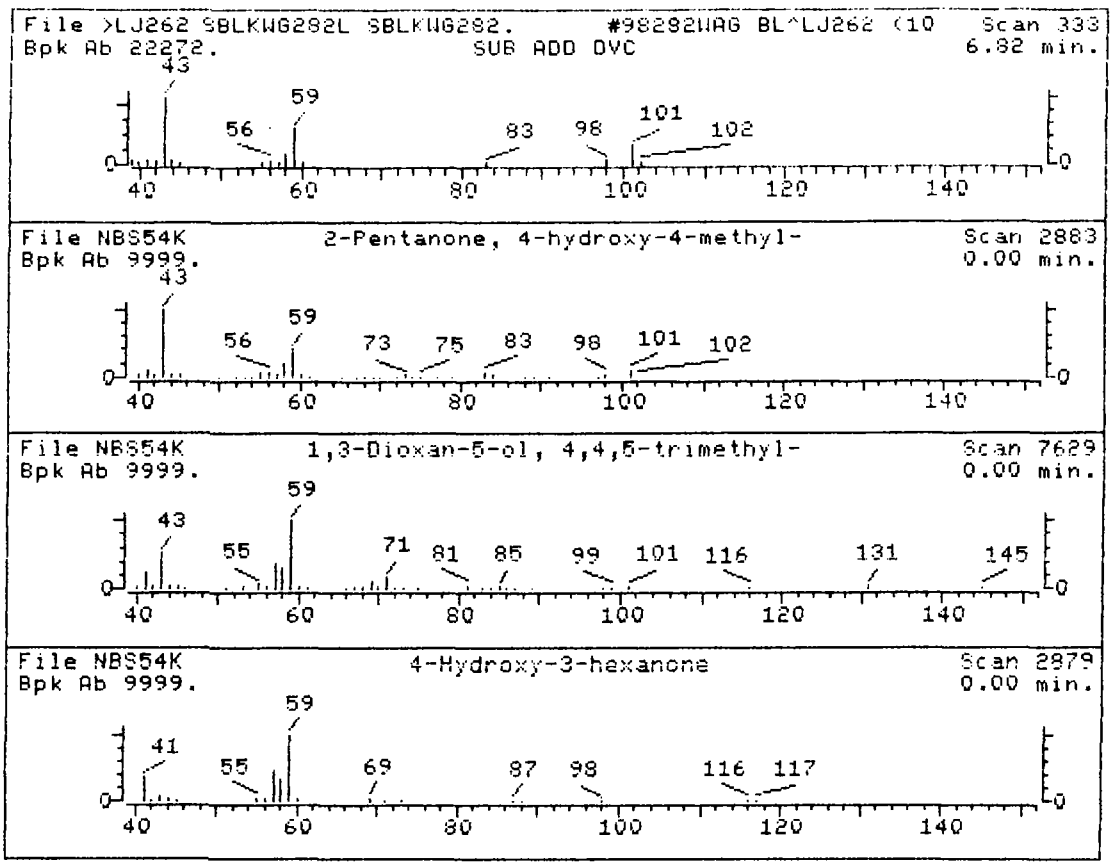




INSTRUMENT ID HP06754

ANALYSIS DATE/TIME 10/12/98 11:06





A 200/526 10/14/98

1.	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2
2.	1,3-Dioxan-5-ol, 4,4,5-trimethyl-	146	C7H14O3
3.	4-Hydroxy-3-hexanone	116	C6H12O2
4.	Cyclohexanemethanol, .alpha.,.alpha.,4-trimethyl-	156	C10H20O
5.	Butane, 2-methoxy-3-methyl-	102	C6H14O
6.	2-Pentanol, 2-methyl-	102	C6H14O

Sample file: >LJ262 Spectrum #: 333
Search speed: 3 Tilting option: N No. of ion ranges searched: 51

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	46	123422	1870	NBS54K	50	33	2	0	93	25	17	17
2.	31	54063148	1959	NBS54K	47	43	1	0	53	38	10	17
3.	28	4984854	1869	NBS54K	38	35	1	0	48	38	10	14
4.	27	498817	1982	NBS54K	43	34	1	0	53	41	8	15
5.	26*	62016493	1850	NBS54K	27	47	2	0	53	41	8	14
6.	25	590363	1842	NBS54K	35	49	2	0	53	47	7	12

Sample # SBLKWG282 Injected 10/12/98 at 11:06 on Instrument # HP06754
Estimated Concentration: 4.46 ug/ml

Lancaster Laboratories
Quantitation Report-GC/MS Semi-Volatiles

LLI#: 282DBLCS

File: >LJ264 Injected at: 12:52 10/12/98
Sample: 282DBLCSL 282DBLCS
Dilution factor: 1.0
Standard Reference: ^LJ261
ID File : IDAPPL

Calibration time: 09:56 10/12/98
Instrument ID: HP06754
Batch: 98282SDB
GPC Cleanup: No
Sample Wt/Vol.: 1 G

Method: APPENDIX9
Matrix: SOIL
Blank: ^LJ263
Volume injected: 1 ul
Final Ext. Vol. : 5 mL

#	Internal Standards	R.T. (+/-RT)	Scan	Qion	Area(+/-%Area)	Conc(ext)	QC Flag	Conc Units = ng/ul
1.	1,4-Dichlorobenzene-d4	11.27(.0074)	782.	152	167368.(-4)	40.0		
28.	Naphthalene-d8	14.91(.0023)	1149.	136	621497.(0)	40.0		
50.	Acenaphthene-d10	20.15(.0018)	1677.	164	341464.(-2)	40.0		
81.	Phenanthrene-d10	24.62(-.008)	2126.	188	617012.(-2)	40.0		
102.	Chrysene-d12	31.42(.0032)	2811.	240	572510.(-7)	40.0		
114.	Perylene-d12	35.16(-.000)	3188.	264	405745.(-6)	40.0		

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD AREA OUT OF RANGE NC = NOT ABLE TO CALCULATE--NO STANDARD.

#	Surrogate Standards	R.T. (+/-RRT)	Scan	Qion	Area	Conc(samp)	%Rec.	Q	QC Limits
7.	2-Fluorophenol	7.747(-.001)	426.	112	2221543.	208.05	104		35 - 108
10.	Phenol-d6	10.27(-.001)	681.	99.	3173317.	205.85	103		39 - 108
29.	Nitrobenzene-d5	12.84(-.001)	940.	82.	1435648.	103.96	104		31 - 126
55.	2-Fluorobiphenyl	18.16(-.000)	1476.	172	1127023.	104.81	105		45 - 113
80.	2,4,6-Tribromophenol	22.54(-.001)	1917.	330	385215.	226.46	113		23 - 125
104.	Terphenyl-d14	29.02(-.000)	2570.	244	1180583.	110.30	110		37 - 130

= RELATIVE RETENTION TIME OUT OF RANGE * = %REC OUT OF RANGE D = SURROGATES DILUTED OUT NC = COULD NOT CALCULATE

#	Target Compounds	R.T.(+/-RRT)	Scan	Qion	Area	Conc(ext)	Conc(samp)	Conc. Blank	Q	MDL(ext)
2.	Pyridine	3.925(-.002)	40.	79.	306813.	21.21	110000.			2.0
3.	N-Nitrosodimethylamine	3.817(-.001)	29.	74.	168628.	21.40	110000.			2.0
4.	2-Picoline	6.113(-.001)	261.	93.	306677.	20.82	100000.			2.0
5.	N-Nitrosomethylethylamine	6.430(.000)	293.	88.	138776.	25.88	130000.			2.0
6.	Methyl methanesulfonate	7.272(-.000)	378.	80.	316578.	41.74	210000.			1.0
8.	N-Nitrosodiethylamine	8.331(.001)	485.	102	118986.	20.56	100000.			1.0
9.	Ethyl methanesulfonate	9.163(.001)	569.	79.	453387.	42.06	210000.			1.0
11.	Phenol	10.30(-.000)	684.	94.	369915.	21.45	110000.			2.0
12.	Aniline	10.36(-.000)	690.	93.	441103.	19.63	98000.			1.0
13.	bis(2-Chloroethyl)ether	10.56(-.000)	710.	93.	323579.	24.19	120000.			1.0
14.	2-Chlorophenol	10.68(-.000)	722.	128	130056.	21.20	110000.			1.0
15.	1,3-Dichlorobenzene	11.11(-.000)	766.	146	128203.	20.56	100000.			1.0
16.	1,4-Dichlorobenzene	11.32(.000)	787.	146	131542.	21.01	100000.			1.0
17.	Benzyl alcohol	11.65(.001)	820.	108	154687.	22.12	110000.		J	5.0
18.	1,2-Dichlorobenzene	11.73(.001)	828.	146	122766.	21.03	100000.			1.0
19.	2-Methylphenol	11.99(.000)	854.	108	215312.	21.66	110000.			1.0
20.	bis(2-Chloroisopropyl)ether	12.08(.000)	863.	45.	373291.	24.24	120000.			1.0
21.	3- and 4-Methylphenol	12.42(.002)	898.	108	450015.	44.22	220000.			2.0
22.	N-Nitrosopyrrolidine	12.33(.002)	889.	100	132672.	19.95	100000.			2.0
23.	Acetophenone	12.40(.001)	896.	105	628144.	43.98	220000.			1.0
24.	N-Nitrosomorpholine	12.46(.001)	902.	56.	116104.	21.97	110000.			2.0
25.	N-Nitroso-di-n-propylamine	12.42(.002)	898.	70.	159075.	21.80	110000.			1.0
26.	o-Toluidine	12.50(.001)	906.	106	332932.	19.95	100000.			2.0

Lancaster Laboratories
Quantitation Report-GC/MS Semi-Volatiles

LLI#: 282DBLCS

File: >LJ264 Injected at: 12:52 10/12/98 Calibration time: 09:56 10/12/98 Method: APPENDIX9
Sample: 282DBLCSL 282DBLCS Instrument ID: HP06754 Matrix: SOIL
Dilution factor: 1.0 Batch: 98282SDB Blank: ^LJ263
Standard Reference: ^LJ261 GPC Cleanup: No Volume injected: 1 ul
ID File : IDAPPL Sample Wt/Vol.: 1 G Final Ext. Vol. : 5 mL

#	Target Compounds	R.T.(+/-RRT)	Scan	Qion	Area	Conc(ext)	Conc(samp)	Conc. Blank	Q	MDL(ext)
27.	Hexachloroethane	12.69(.000)	925.	117	101402.	21.33	110000.			1.0
30.	Nitrobenzene	12.89(-.000)	945.	77.	528121.	41.09	200000.			1.0
31.	N-Nitrosopiperidine	13.32(.000)	988.	114	106351.	20.35	100000.			2.0
32.	Isophorone	13.58(-.000)	1015.	82.	1014797.	38.70	190000.			1.0
33.	2-Nitrophenol	13.80(-.000)	1037.	139	70299.	19.97	100000.			2.0
34.	2,4-Dimethylphenol	13.95(.001)	1052.	107	241973.	21.17	100000.			2.0
35.	bis(2-Chloroethoxy)methane	14.25(-.000)	1082.	93.	314674.	20.55	100000.			2.0
36.	O,O,O-triethylphosphorothioat	14.17(.001)	1074.	198	50364.	18.63	93000.			2.0
38.	2,4-Dichlorophenol	14.51(-.000)	1108.	162	91771.	19.81	99000.			2.0
39.	1,2,4-Trichlorobenzene	14.75(-.000)	1133.	180	96364.	20.10	100000.			1.0
40.	Naphthalene	14.97(.000)	1155.	128	344321.	20.61	100000.			1.0
41.	2,6-Dichlorophenol	15.16(.001)	1174.	162	93289.	20.10	100000.			1.0
42.	4-Chloroaniline	15.14(.001)	1172.	127	162119.	21.35	110000.			1.0
43.	Hexachloropropene	15.24(.000)	1182.	213	84109.	20.13	100000.			2.0
44.	Hexachlorobutadiene	15.36(.000)	1194.	225	68611.	21.32	110000.			2.0
45.	1,4-Phenylenediamine	16.20(.000)	1279.	108	1919334.	229.40	1100000		E	30.0
46.	N-Nitrosodi-n-butylamine	16.19(-.000)	1278.	84.	177068.	20.55	100000.			2.0
47.	4-Chloro-3-methylphenol	16.61(.000)	1320.	107	198409.	20.41	100000.			2.0
48.	Safrole	16.81(.000)	1340.	162	158025.	37.96	190000.			1.0
49.	2-Methylnaphthalene	17.04(.000)	1363.	142	208556.	20.31	100000.			1.0
51.	1,2,4,5-Tetrachlorobenzene	17.53(.000)	1413.	216	111470.	21.29	110000.			1.0
52.	Hexachlorocyclopentadiene	17.51(.000)	1411.	237	66196.	25.65	130000.			5.0
53.	2,4,6-Trichlorophenol	17.89(-.000)	1449.	196	62264.	20.45	100000.			2.0
54.	2,4,5-Trichlorophenol	17.99(-.000)	1459.	196	65436.	19.66	98000.			2.0
56.	Isosafrole	18.36(-.000)	1496.	162	117020.	28.39	140000.			1.0
57.	2-Chloronaphthalene	18.49(-.000)	1509.	162	192408.	20.59	100000.			1.0
58.	2-Nitroaniline	18.80(-.000)	1541.	65.	104312.	21.67	110000.			1.0
59.	1,4-Naphthoquinone	19.03(-.000)	1564.	158	383357.	96.97	480000.			5.0
60.	Dimethylphthalate	19.41(-.000)	1602.	163	278551.	23.51	120000.			2.0
61.	1,3-Dinitrobenzene	19.46(-.000)	1607.	168	89491.	37.34	190000.			1.0
62.	2,6-Dinitrotoluene	19.57(-.000)	1618.	165	111283.	37.85	190000.			1.0
63.	Acenaphthylene	19.72(.000)	1633.	152	320008.	20.89	100000.			1.0
64.	3-Nitroaniline	20.03(.000)	1665.	138	58304.	18.12	91000.			2.0
65.	Acenaphthene	20.24(.001)	1686.	153	205856.	21.09	100000.			1.0
66.	2,4-Dinitrophenol	20.37(.000)	1699.	184	20139.	19.77	99000.		J	7.0
67.	4-Nitrophenol	20.60(-.000)	1722.	109	69719.	23.83	120000.		J	5.0
68.	Dibenzofuran	20.77(.000)	1739.	168	283481.	20.74	100000.			1.0
69.	Pentachlorobenzene	20.65(.000)	1727.	250	94623.	21.09	100000.			1.0
70.	2,4-Dinitrotoluene	20.76(.001)	1738.	165	142089.	38.95	190000.			2.0
71.	1-Naphthylamine	21.01(.000)	1763.	143	126465.	14.73	74000.			2.0
72.	2-Naphthylamine	21.25(.000)	1787.	143	105655.	10.41	52000.		J	5.0

Lancaster Laboratories
Quantitation Report-GC/MS Semi-Volatiles

LLI#: 282DBLCS

File: >LJ264 Injected at: 12:52 10/12/98 Calibration time: 09:56 10/12/98 Method: APPENDIX9
Sample: 282DBLCSL 282DBLCS Instrument ID: HP06754 Matrix: SOIL
Dilution factor: 1.0 Batch: 98282SOB Blank: ^LJ263
Standard Reference: ^LJ261 GPC Cleanup: No Volume injected: 1 ul
ID File : IDAPPL Sample Wt/Vol.: 1 G Final Ext. Vol. : 5 mL

#	Target Compounds	R.T.(+/-RRT)	Scan	Qion	Area	Conc(ext)	Conc(samp)	Conc. Blank	Q	MDL(ext)
73.	2,3,4,6-Tetrachlorophenol	21.16(-.000)	1778.	232	48579.	18.40	92000.			2.0
74.	Diethylphthalate	21.55(.001)	1817.	149	299531.	23.58	120000.			2.0
75.	4-Chlorophenyl-phenylether	21.84(.000)	1847.	204	125183.	24.23	120000.			1.0
76.	Thionazin	21.78(.001)	1841.	107	80317.	19.66	98000.		J	2.0
77.	Fluorene	21.80(.000)	1843.	166	215408.	21.33	110000.			1.0
78.	5-Nitro-o-toluidine	21.85(.001)	1848.	152	46580.	13.40	67000.		J	5.0
79.	4-Nitroaniline	21.86(.001)	1849.	138	49520.	15.10	75000.			2.0
82.	4,6-Dinitro-2-methylphenol	21.98(-.000)	1861.	198	40572.	18.02	90000.		J	5.0
83.	N-Nitrosodiphenylamine	22.20(-.000)	1883.	169	324198.	39.96	200000.			1.0
84.	Tetraethyldithiopyrophosphate	22.75(-.000)	1938.	97.	92086.	18.83	94000.			2.0
85.	1,3,5-Trinitrobenzene	23.03(.000)	1966.	213	49116.	43.55	220000.			2.0
86.	Phenacetin	23.17(.000)	1980.	108	252353.	21.36	110000.			1.0
87.	4-Bromophenyl-phenylether	23.32(-.000)	1995.	248	74431.	24.17	120000.			2.0
88.	Diallate TRANS/CIS	23.11(-.001)	1974.	86.	273059.	21.92	110000.			2.0
89.	Dimethoate	23.60(.000)	2024.	87.	207340.	16.97	85000.			1.0
90.	Hexachlorobenzene	23.46(-.001)	2009.	284	69979.	22.54	110000.			1.0
91.	4-Aminobiphenyl	24.09(-.000)	2073.	169	61052.	5.59	28000.		J	5.0
92.	Pentachlorophenol	24.06(-.000)	2070.	266	23976.	22.38	110000.		J	5.0
93.	Pronamide	24.32(-.000)	2096.	173	55410.	10.70	53000.		J	5.0
94.	Pentachloronitrobenzene	24.10(-.000)	2074.	237	50175.	32.10	160000.			1.0
95.	Phenanthrene	24.69(.000)	2133.	178	291598.	20.76	100000.			1.0
96.	Anthracene	24.85(-.000)	2149.	178	296629.	21.12	100000.			1.0
97.	Di-n-butylphthalate	26.48(-.000)	2314.	149	516228.	24.37	120000.			2.0
98.	4-Nitroquinoline-1-oxide	26.96(-.001)	2362.	190	57140.	105.15	520000.			5.0
99.	Methapyrilene	26.94(-.000)	2360.	97.	119714.	19.55	98000.			1.0
100.	Isodrin	27.65(-.000)	2431.	193	36107.	19.26	96000.		J	2.0
101.	Fluoranthene	28.03(-.000)	2470.	202	337201.	20.33	100000.			1.0
103.	Pyrene	28.59(.000)	2526.	202	346502.	21.23	110000.			1.0
105.	p-Dimethylaminoazobenzene	29.36(-.000)	2604.	225	66364.	23.30	120000.			1.0
106.	Chlorobenzilate	29.48(-.000)	2616.	139	162668.	22.77	110000.			2.0
107.	3,3'-Dimethylbenzidine	30.14(.000)	2682.	212	70670.	8.49	42000.		J	5.0
108.	Butylbenzylphthalate	30.20(-.000)	2688.	149	237945.	26.12	130000.			2.0
109.	2-Acetylaminofluorene	30.70(.000)	2739.	181	127725.	20.61	100000.			1.0
110.	3,3'-Dichlorobenzidine	31.34(.000)	2803.	252	105044.	16.87	84000.			2.0
111.	Benzo(a)anthracene	31.39(.000)	2808.	228	314841.	20.81	100000.			1.0
112.	bis(2-Ethylhexyl)phthalate	31.48(.000)	2817.	149	320458.	25.18	120000.			2.0
113.	Chrysene	31.47(.000)	2816.	228	292997.	21.71	110000.			1.0
115.	Di-n-octylphthalate	32.95(-.000)	2965.	149	511777.	23.41	120000.			2.0
116.	7,12-Dimethylbenz[a]anthracen	33.97(.000)	3068.	256	128584.	36.34	180000.			1.0
117.	Benzo(b)fluoranthene	33.99(.000)	3070.	252	291616.	20.42	100000.			1.0
118.	Benzo(k)fluoranthene	34.07(.000)	3078.	252	269958.	20.37	100000.			1.0
119.	Benzo(a)pyrene	34.98(.000)	3170.	252	253355.	20.65	100000.			1.0
120.	3-Methylcholanthrene	36.17(-.000)	3290.	268	115349.	38.24	190000.			2.0
121.	Indeno(1,2,3-cd)pyrene	39.32(.001)	3608.	276	194533.	22.52	110000.			1.0

Lancaster Laboratories
Quantitation Report-GC/MS Semi-Volatiles

LLI#: 282DBLCS

File: >LJ264 Injected at: 12:52 10/12/98 Calibration time: 09:56 10/12/98 Method: APPENDIX9
Sample: 282DBLCSL 282DBLCS Instrument ID: HP06754 Matrix: SOIL
Dilution factor: 1.0 Batch: 98282SDB Blank: ^LJ263
Standard Reference: ^LJ261 GPC Cleanup: No Volume injected: 1 ul
ID File : IDAPPL Sample Wt/Vol.: 1 G Final Ext. Vol. : 5 mL

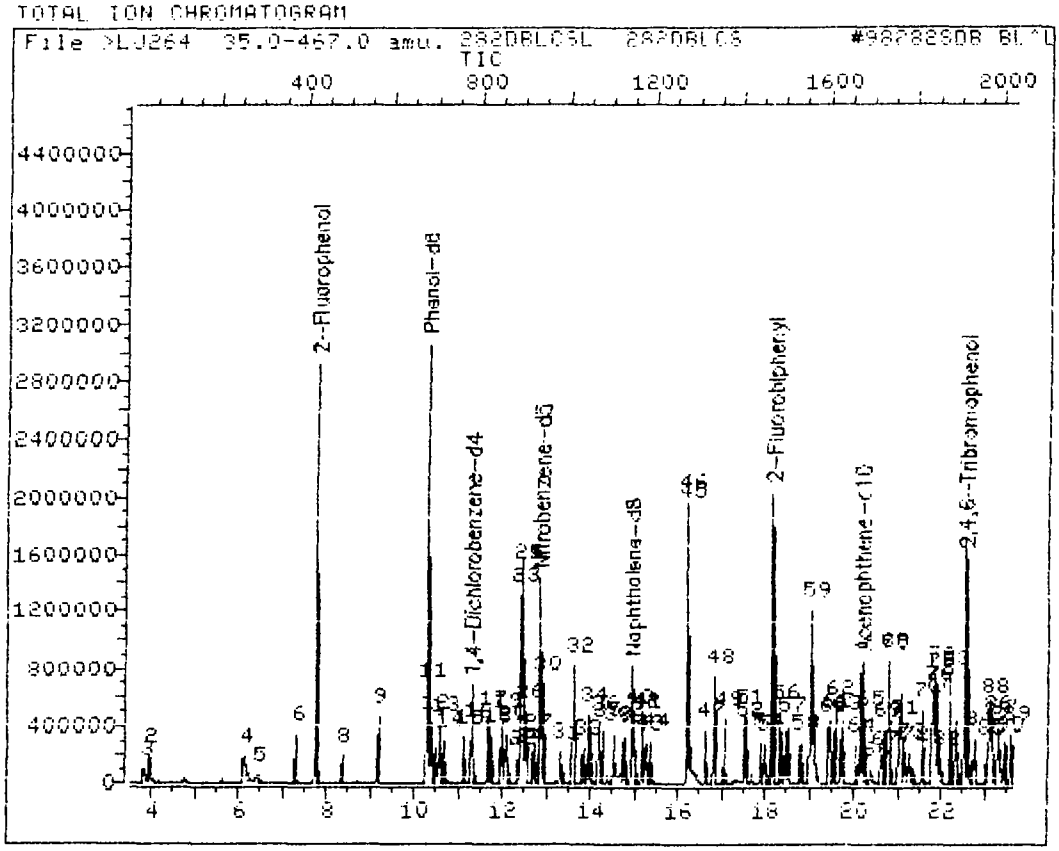
#	Target Compounds	R.T.(+/-RRT)	Scan	Qion	Area	Conc(ext)	Conc(samp)	Conc. Blank	Q	MDL(ext)
122.	Dibenz(a,h)anthracene	39.45(.000)	3621.	278	184029.	22.68	110000.			1.0
123.	Benzo(g,h,i)perylene	40.57(.001)	3734.	276	194330.	22.79	110000.			1.0

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE NUMBER OF TARGETS = 110

Comments: _____

Analyst: 333 Date: 10/19/98
Auditor: Date: 10-20-98

TOTAL ION CHROMATOGRAM



Data File: >LJ264::A2 Quant Output File: ^LJ264::QF
Name: 282DBLCSL 282DBLCS Instrument ID: HP06754
Misc: #98282SDB BL^LJ263 (1,5)

Id File: IDAPPL::DB
Title: IDAPPL
Last Calibration: 981009 18:23 Last Qcal Time: 981012 09:56

Operator ID: DJE_526
Quant Time : 981012 13:39
Injected at: 981012 12:52

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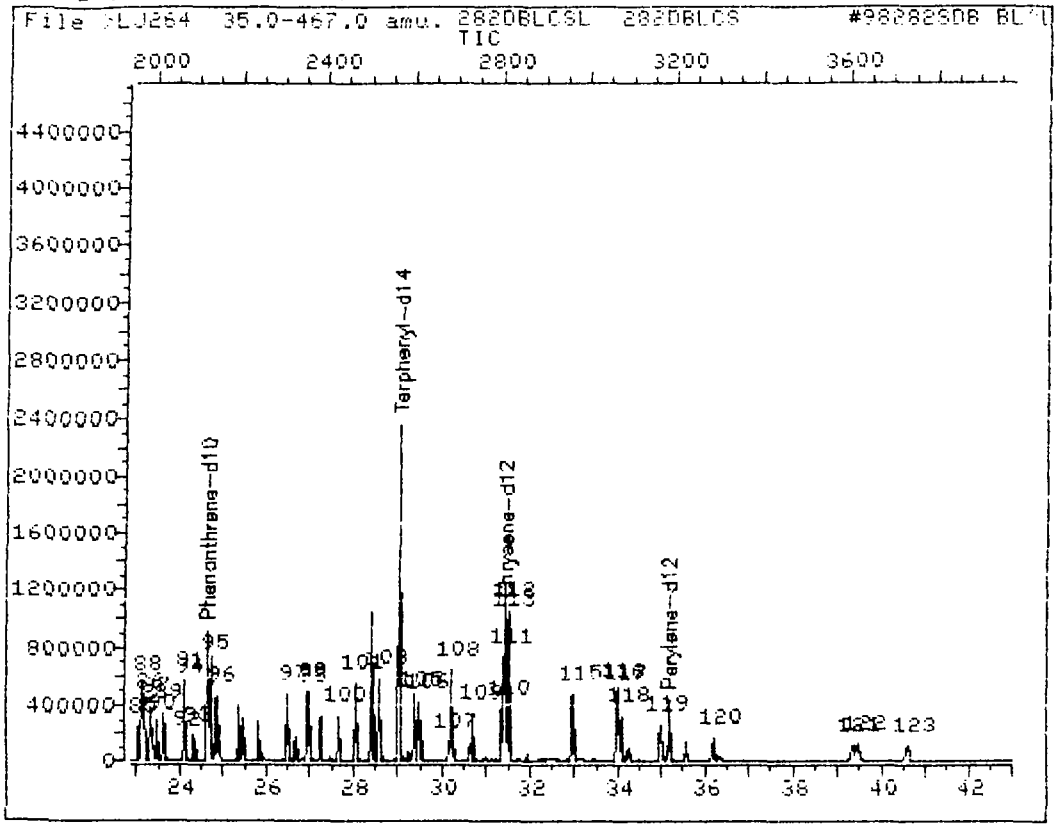
10/19/98

TOTAL ION CHROMATOGRAM



Data File: >LJ264::A2 Quant Output File: ^LJ264::QF
Name: 282DBLCSL 282DBLCS Instrument ID: HP06754
Misc: #98282SDB BL^LJ263 (1,5)

Id File: IDAPPL::DB
Title: IDAPPL
Last Calibration: 981009 18:23 Last Qcal Time: 981012 09:56

Operator ID: DJE_526
Quant Time : 981012 13:39
Injected at: 981012 12:52

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TJT385
10/19/98

QUANT REPORT

Operator ID: DJE_526 Quant Rev: 7 Quant Time: 981012 13:39
Output File: ^LJ264::QF Injected at: 981012 12:52
Data File: >LJ264::A2 Dilution Factor: 1.00000
Name: 282DBLCSL 282DBLCS Instrument ID: HP06754
Misc: #98282SDB BL^LJ263 (1,5)

ID File: IDAPPL::DB
Title: IDAPPL
Last Calibration: 981009 18:23 Last Qcal Time: 981012 09:56

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	11.27	152.0	167368	40.00	ug/ul	100
2)	Pyridine	3.93	79.0	306813	21.21	ug/ul	100
3)	N-Nitrosodimethylamine	3.82	74.0	168628	21.40	ug/ul	100
4)	2-Picoline	6.11	93.0	306677	20.82	ug/ul	100
5)	N-Nitrosomethylethylamine	6.43	88.0	138776	25.88	ug/ul	100
6)	Methyl methanesulfonate	7.27	80.0	316578	41.74	ug/ul	100
7)	2-Fluorophenol	7.75	112.0	2221543	208.05	ug/ul	100
8)	N-Nitrosodiethylamine	8.33	102.0	118986	20.56	ug/ul	100
9)	Ethyl methanesulfonate	9.16	79.0	453387	42.06	ug/ul	100
10)	Phenol-d6	10.27	99.0	3173317	205.85	ug/ul	100
11)	Phenol	10.30	94.0	369915	21.45	ug/ul	100
12)	Aniline	10.36	93.0	441103	19.63	ug/ul	100
13)	bis(2-Chloroethyl)ether	10.56	93.0	323579	24.19	ug/ul	100
14)	2-Chlorophenol	10.68	128.0	130056	21.20	ug/ul	100
15)	1,3-Dichlorobenzene	11.11	146.0	128203	20.56	ug/ul	100
16)	1,4-Dichlorobenzene	11.32	146.0	131542	21.01	ug/ul	100
17)	Benzyl alcohol	11.65	108.0	154687	22.12	ug/ul	100
18)	1,2-Dichlorobenzene	11.73	146.0	122766	21.03	ug/ul	100
19)	2-Methylphenol	11.99	108.0	215312	21.66	ug/ul	100
20)	bis(2-Chloroisopropyl)ether	12.08	45.0	373291	24.24	ug/ul	100
21)	3- and 4-Methylphenol	12.42	108.0	450015	44.22	ug/ul	100
22)	N-Nitrosopyrrolidine	12.33	100.0	132672	19.95	ug/ul	100
23)	Acetophenone	12.40	105.0	628144	43.98	ug/ul	100
24)	N-Nitrosomorpholine	12.46	56.0	116104	21.97	ug/ul	100
25)	N-Nitroso-di-n-propylamine	12.42	70.0	159075	21.80	ug/ul	100
26)	o-Toluidine	12.50	106.0	332932	19.95	ug/ul	100
27)	Hexachloroethane	12.69	117.0	101402	21.33	ug/ul	100
28)	*Naphthalene-d8	14.91	136.0	621497	40.00	ug/ul	100
29)	Nitrobenzene-d5	12.84	82.0	1435648	103.96	ug/ul	100
30)	Nitrobenzene	12.89	77.0	528121	41.09	ug/ul	100
31)	N-Nitrosopiperidine	13.32	114.0	106351	20.35	ug/ul	100
32)	Isophorone	13.58	82.0	1014797	38.70	ug/ul	100
33)	2-Nitrophenol	13.80	139.0	70299	19.97	ug/ul	100
34)	2,4-Dimethylphenol	13.95	107.0	241973	21.17	ug/ul	100
35)	bis(2-Chloroethoxy)methane	14.25	93.0	314674	20.55	ug/ul	100
36)	O,O,O-triethylphosphorothioate	14.17	198.0	50364	18.63	ug/ul	100
38)	2,4-Dichlorophenol	14.51	162.0	91771	19.61	ug/ul	100
39)	1,2,4-Trichlorobenzene	14.75	180.0	96364	20.10	ug/ul	100
40)	Naphthalene	14.97	128.0	344321	20.61	ug/ul	100
41)	2,6-Dichlorophenol	15.16	162.0	93289	20.10	ug/ul	100

Operator ID: DJE_526 Quant Rev: 7 Quant Time: 981012 13:39
Output File: ^LJ264::QF Injected at: 981012 12:52
Data File: >LJ264::A2 Dilution Factor: 1.00000
Name: 282DBLCSL 282DBLCS Instrument ID: HP06754
Misc: #98282SDB BL^LJ263 (1,5)

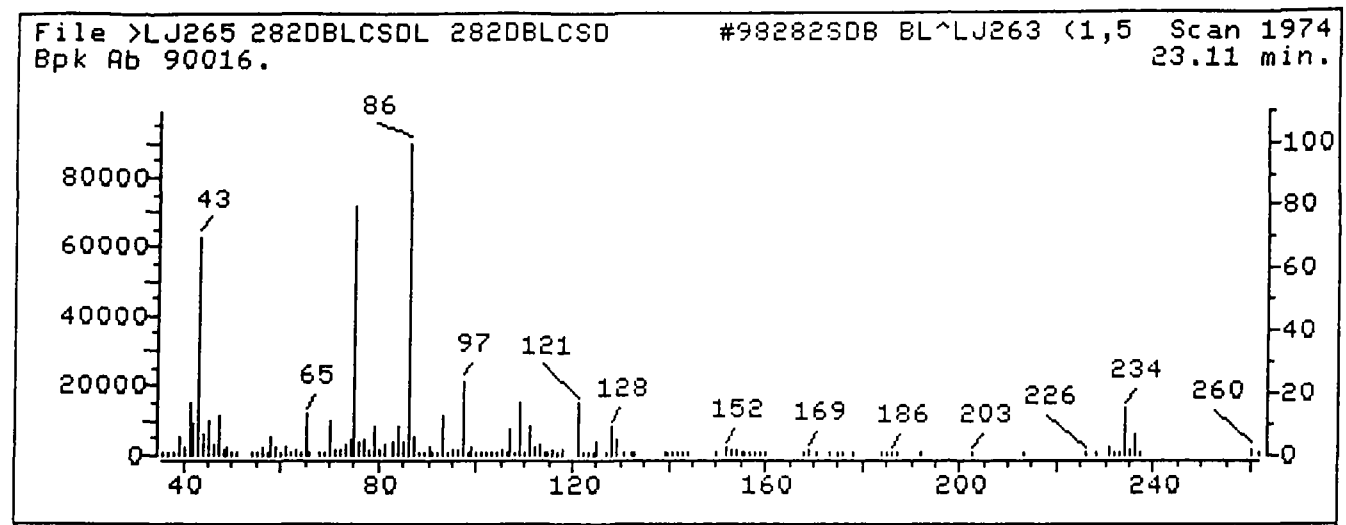
ID File: IDAPPL::DB
Title: IDAPPL
Last Calibration: 981009 18:23 Last Qcal Time: 981012 09:56

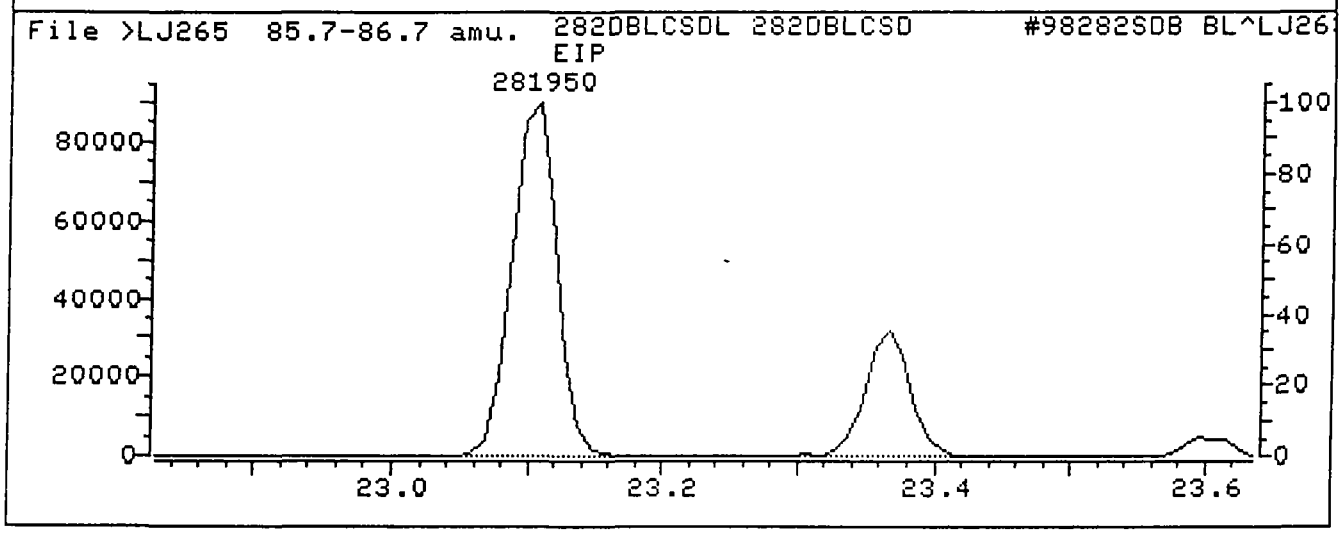
	Compound	R.T.	Q ion	Area	Conc	Units	q
42)	4-Chloroaniline	15.14	127.0	162119	21.35	ug/ul	100
43)	Hexachloropropene	15.24	213.0	84109	20.13	ug/ul	100
44)	Hexachlorobutadiene	15.36	225.0	68611	21.32	ug/ul	100
45)	1,4-Phenylenediamine	16.20	108.0	1919334	229.40	ug/ul	100
46)	N-Nitrosodi-n-butylamine	16.19	84.0	177068	20.55	ug/ul	100
47)	4-Chloro-3-methylphenol	16.61	107.0	198409	20.41	ug/ul	100
48)	Safrole	16.81	162.0	158025	37.96	ug/ul	100
49)	2-Methylnaphthalene	17.04	142.0	208556	20.31	ug/ul	100
50)	*Acenaphthene-d10	20.15	164.0	341464	40.00	ug/ul	95
51)	1,2,4,5-Tetrachlorobenzene	17.53	216.0	111470	21.29	ug/ul	100
52)	Hexachlorocyclopentadiene	17.51	237.0	66196	25.65	ug/ul	100
53)	2,4,6-Trichlorophenol	17.89	196.0	62264	20.49	ug/ul	100
54)	2,4,5-Trichlorophenol	17.99	196.0	65436	19.66	ug/ul	100
55)	2-Fluorobiphenyl	18.16	172.0	1127023	104.81	ug/ul	100
56)	Isosafrole	18.36	162.0	117020	28.39	ug/ul	100
57)	2-Chloronaphthalene	18.49	162.0	192408	20.59	ug/ul	100
58)	2-Nitroaniline	18.80	65.0	104312	21.67	ug/ul	100
59)	1,4-Naphthoquinone	19.03	158.0	383357	96.97	ug/ul	100
60)	Dimethylphthalate	19.41	163.0	278551	23.51	ug/ul	100
61)	1,3-Dinitrobenzene	19.46	168.0	89491	37.34	ug/ul	100
62)	2,6-Dinitrotoluene	19.57	165.0	111283	37.85	ug/ul	100
63)	Acenaphthylene	19.72	152.0	320008	20.89	ug/ul	100
64)	3-Nitroaniline	20.03	138.0	58304	18.12	ug/ul	100
65)	Acenaphthene	20.24	153.0	205856	21.09	ug/ul	100
66)	2,4-Dinitrophenol	20.37	184.0	20139	19.77	ug/ul	100
67)	4-Nitrophenol	20.60	109.0	69719	23.83	ug/ul	100
68)	Dibenzofuran	20.77	168.0	283481	20.74	ug/ul	100
69)	Pentachlorobenzene	20.65	250.0	94623	21.09	ug/ul	100
70)	2,4-Dinitrotoluene	20.76	165.0	142089	38.95	ug/ul	100
71)	1-Naphthylamine	21.01	143.0	126465	14.73	ug/ul	100
72)	2-Naphthylamine	21.25	143.0	105655	10.41	ug/ul	100
73)	2,3,4,6-Tetrachlorophenol	21.16	232.0	48579	18.40	ug/ul	100
74)	Diethylphthalate	21.55	149.0	299531	23.58	ug/ul	100
75)	4-Chlorophenyl-phenylether	21.84	204.0	125183	24.23	ug/ul	100
76)	Thionazin	21.78	107.0	80317	19.66	ug/ul	100
77)	Fluorene	21.80	166.0	215408	21.33	ug/ul	100
78)	5-Nitro-o-toluidine	21.85	152.0	46530	13.40	ug/ul	100
79)	4-Nitroaniline	21.86	138.0	49520	19.10	ug/ul	100
80)	2,4,6-Tribromophenol	22.54	329.[illegible]	385215	276.46	ug/ul	100
81)	*Phenanthrene-d10	24.62	188.0	617012	40.00	ug/ul	[illegible]
82)	4,6-Dinitro-2-methylphenol	21.98	198.0	40572	18.02	ug/ul	100

Operator ID: DJE_526 Quant Rev: 2 Quant Time: 981012 13:39
Output File: ^LJ264::QF Injected at: 981012 12:52
Data File: >LJ264::A2 Dilution Factor: 1.00000
Name: 282DBLCSL 282DBLCS Instrument ID: HP06754
Misc: #98282SDB BL^LJ263 (1,5)

ID File: IDAPPL::DB
Title: IDAPPL
Last Calibration: 981009 18:23 Last Qcal Time: 981012 09:56

	Compound	R.T.	Q ion	Area	Conc	Units	q
83)	N-Nitrosodiphenylamine	22.20	169.0	324198	39.96	ug/ul	100
84)	Tetraethyldithiopyrophosphate	22.75	97.0	92086	18.83	ug/ul	100
85)	1,3,5-Trinitrobenzene	23.03	213.0	49116	43.55	ug/ul	100
86)	Phenacetin	23.17	108.0	252353	21.36	ug/ul	100
87)	4-Bromophenyl-phenylether	23.32	248.0	74431	24.17	ug/ul	100
88)	Diallate TRANS/CIS	23.11	86.0	273059M	21.92	ug/ul	100
89)	Dimethoate	23.60	87.0	207340	16.97	ug/ul	100
90)	Hexachlorobenzene	23.46	283.7	69979	22.54	ug/ul	100
91)	4-Aminobiphenyl	24.09	169.0	61052	5.59	ug/ul	100
92)	Pentachlorophenol	24.06	266.0	23976	22.38	ug/ul	100
93)	Pronamide	24.32	173.0	55410	10.70	ug/ul	100
94)	Pentachloronitrobenzene	24.10	237.0	50175	32.10	ug/ul	100
95)	Phenanthrene	24.69	178.0	291598	20.76	ug/ul	100
96)	Anthracene	24.85	178.0	296629	21.12	ug/ul	100
97)	Di-n-butylphthalate	26.48	149.0	516228	24.37	ug/ul	100
98)	4-Nitroquinoline-1-oxide	26.96	190.0	57140	105.15	ug/ul	100
99)	Methapyrilene	26.94	97.0	119714	19.55	ug/ul	100
100)	Isodrin	27.65	193.0	36107	19.26	ug/ul	100
101)	Fluoranthene	28.03	202.0	357201	20.33	ug/ul	100
102)	*Chrysene-d12	31.42	240.0	572510	40.00	ug/ul	92
103)	Pyrene	28.59	202.0	346502	21.23	ug/ul	100
104)	Terphenyl-d14	29.02	244.0	1180583	110.30	ug/ul	100
105)	p-Dimethylaminoazobenzene	29.36	225.0	66364	23.30	ug/ul	100
106)	Chlorobenzilate	29.48	139.0	162668	22.77	ug/ul	100
107)	3,3'-Dimethylbenzidine	30.14	212.0	70670	8.49	ug/ul	100
108)	Butylbenzylphthalate	30.20	149.0	237945	26.12	ug/ul	100
109)	2-Acetylaminofluorene	30.70	181.0	127725	20.61	ug/ul	100
110)	3,3'-Dichlorobenzidine	31.34	252.0	105044	16.87	ug/ul	100
111)	Benzo(a)anthracene	31.39	228.0	314841	20.81	ug/ul	100
112)	bis(2-Ethylhexyl)phthalate	31.48	149.0	320458	25.18	ug/ul	100
113)	Chrysene	31.47	228.0	292997	21.71	ug/ul	100
114)	*Perylene-d12	35.16	264.0	405745	40.00	ug/ul	99
115)	Di-n-octylphthalate	32.95	149.0	511777	23.41	ug/ul	100
116)	7,12-Dimethylbenz[a]anthracene	33.97	256.0	128584	36.34	ug/ul	100
117)	Benzo(b)fluoranthene	33.99	252.0	291616	20.42	ug/ul	100
118)	Benzo(k)fluoranthene	34.07	252.0	269958	20.37	ug/ul	100
119)	Benzo(a)pyrene	34.98	252.0	253355	20.65	ug/ul	100
120)	3-Methylcholanthrene	36.17	268.0	115349	98.24	ug/ul	100
121)	Indeno(1,2,3-cd)pyrene	39.32	276.0	194533	22.92	ug/ul	100
122)	Dibenz(a,h)anthracene	39.45	278.0	184029	22.68	ug/ul	100
123)	Benzo(g,h,i)perylene	40.27	276.0	174330	22.77	ug/ul	100





Data File: >LJ265
Name: 282DBLCSDL 282DBLCSD
Misc: #98282SDB BL^LJ263 (1,5)
Quant Time: 981012 14:34
Injected at: 981012 13:46

Quant Output File: ^LJ265
Instrument ID: HP06754
Quant ID File: IDAPPL
Last Calibration: 981009 18:23

Compound No: 88
Compound Name: Diallate TRANS/CIS
Scan Number: 1974
Retention Time: 23.11 min
Quant Ion: 86.0
Area: 281950M
Concentration: 22.13 ug/ul
q-value: 100

This report was produced by QAREA at: 3:22 PM SUN., 18 OCT

Polychlorinated Biphenyls (PCBs) Data

Sample Data

#669

Lancaster Laboratories
Where quality is a science.

Batch No: 982680010A

Sample Name: 3001161AF SVE11
Injected on: 09-29-1998 13:43:27 Instrument: CP07--H5088A Analyst: 120 Area File Name: C:\CP\DATA1\4P7263.22A
Sample Amount: 1 G or mL Total Volume: 50 mL

Units: uG/L or uG/kG

Pattern	Amount Found	No Of Peaks Found	Minimum Required	%RSD	Maximum Allowed %RSD	Worst Case**	Comments
Aroclor-1016*	721.5873	3	4	47.10586%	15.0000%	412.221069	<250
Aroclor-1221*	279.5005	1	3	0.00000%	5.0000%	279.500458	
Aroclor-1232*	1562.6172	4	4	68.44690%	10.0000%	406.147461	
Aroclor-1242*	920.2529	4	4	40.12265%	30.0000%	505.743774	
Aroclor-1248*	1388.4407	5	4	59.77011%	30.0000%	304.813782	
Aroclor-1254	535.0426	4	4	37.06786%	40.0000%	323.685822	
Aroclor-1260	767.1944	7	4	21.97975%	40.0000%	558.613342	Report B

Peaks Used To Quantify Above Amount Found Values:

Pattern	Retention Time and Calculated Amount Found for Each Peak						
Aroclor-1016	3.248	3.495	4.105				
	1085.4550	667.0859	412.2211				
Aroclor-1221	2.464						
	279.5005						
Aroclor-1232	2.464	3.248	3.495	4.105			
	406.1475	2888.7305	1878.7357	1076.8547			
Aroclor-1242	2.683	3.248	3.495	4.105			
	874.1436	1404.4946	896.6296	505.7438			
Aroclor-1248	3.495	4.105	4.234	4.875	5.343		
	1665.3583	304.8138	2444.7019	1686.1553	841.1736		
Aroclor-1254	4.574	4.875	5.343	5.690			
	449.3822	788.1553	323.6858	578.9470			
Aroclor-1260	5.561	5.897	6.043	6.233	6.371	6.666	7.044
	761.6321	880.6235	721.5495	1075.3942	731.2255	641.3228	558.6133
Non-Quantitation Peaks with matching retention times:							
Aroclor-1242	4.234						
	4783.5576						
Aroclor-1254	5.897	6.233	5.561	5.189			
	1451.3488	1320.8558	1687.3026	934.3787			

Reviewed by [illegible] Date: 10/1/98 %SSR(A): 74 97 % %SSR(B): 61 80 %

* This pattern is not in this sample, but values are supplied anyway.
** Calculated lowest amount found among all peaks with matching retention times.

Reported on 09-29-1998 15:20:41PCB File: C:\CP\1P7263.TXT Last Calibrated on 09-21-1998 08:47:39 CheckPCB Revision 3.23

[illegible]

Lancaster Laboratories
Where quality is a science.

Batch No: 982680010A

Sample Name: 3001161AF SVE11
Injected on: 09-29-1998 13:43:28 Instrument: CP07--H5088B Analyst: 120 Area File Name: C:\CP\DATA1\4P7263B.22A
Sample Amount: 1 G or mL Total Volume: 50 mL

Units: uG/L or uG/kG

Pattern	Amount Found	No Of Peaks Found	Minimum Required	%RSD	Maximum Allowed %RSD	Worst Case**	Comments
Aroclor-1016*	706.5325	5	4	50.69754%	15.0000%	382.132507	<2500
Aroclor-1221*	736.6208	2	3	49.31752%	5.0000%	479.740814	
Aroclor-1232*	1389.0302	5	4	30.11928%	10.0000%	970.759033	
Aroclor-1242	729.6523	5	4	27.77899%	30.0000%	494.476074	
Aroclor-1248*	642.3796	3	4	64.01235%	30.0000%	339.549683	
Aroclor-1254*	671.4423	3	4	4.60417%	40.0000%	637.302063	
Aroclor-1260	1077.7122	7	4	30.14520%	40.0000%	601.436584	

Peaks Used To Quantify Above Amount Found Values:

Pattern	Retention Time and Calculated Amount Found for Each Peak						
Aroclor-1016	2.703	3.125	3.793	4.293	4.435		
	1277.1327	382.1325	421.3230	714.0303	738.0442		
Aroclor-1221	2.467	2.703					
	479.7408	993.5007					
Aroclor-1232	2.703	3.125	3.793	4.293	4.435		
	1190.9440	970.7590	1108.7521	1889.2981	1785.3978		
Aroclor-1242	2.588	3.125	3.793	4.293	4.435		
	934.8932	494.4761	531.9067	874.1417	812.8437		
Aroclor-1248	3.962	4.435	4.778				
	339.5497	477.0805	1110.5088				
Aroclor-1254	4.778	5.009	5.556				
	697.5419	637.3021	679.4830				
Aroclor-1260	5.788	6.046	6.467	6.578	6.926	7.241	7.679
	991.7018	1216.2535	1617.2985	811.5081	601.4366	1095.7795	1210.0066

Non-Quantitation Peaks with matching retention times:

Aroclor-1221	2.588	
	5069.4028	
Aroclor-1248	5.556	
	1781.6582	
Aroclor-1254	6.046	6.467
	2464.5256	1902.0157

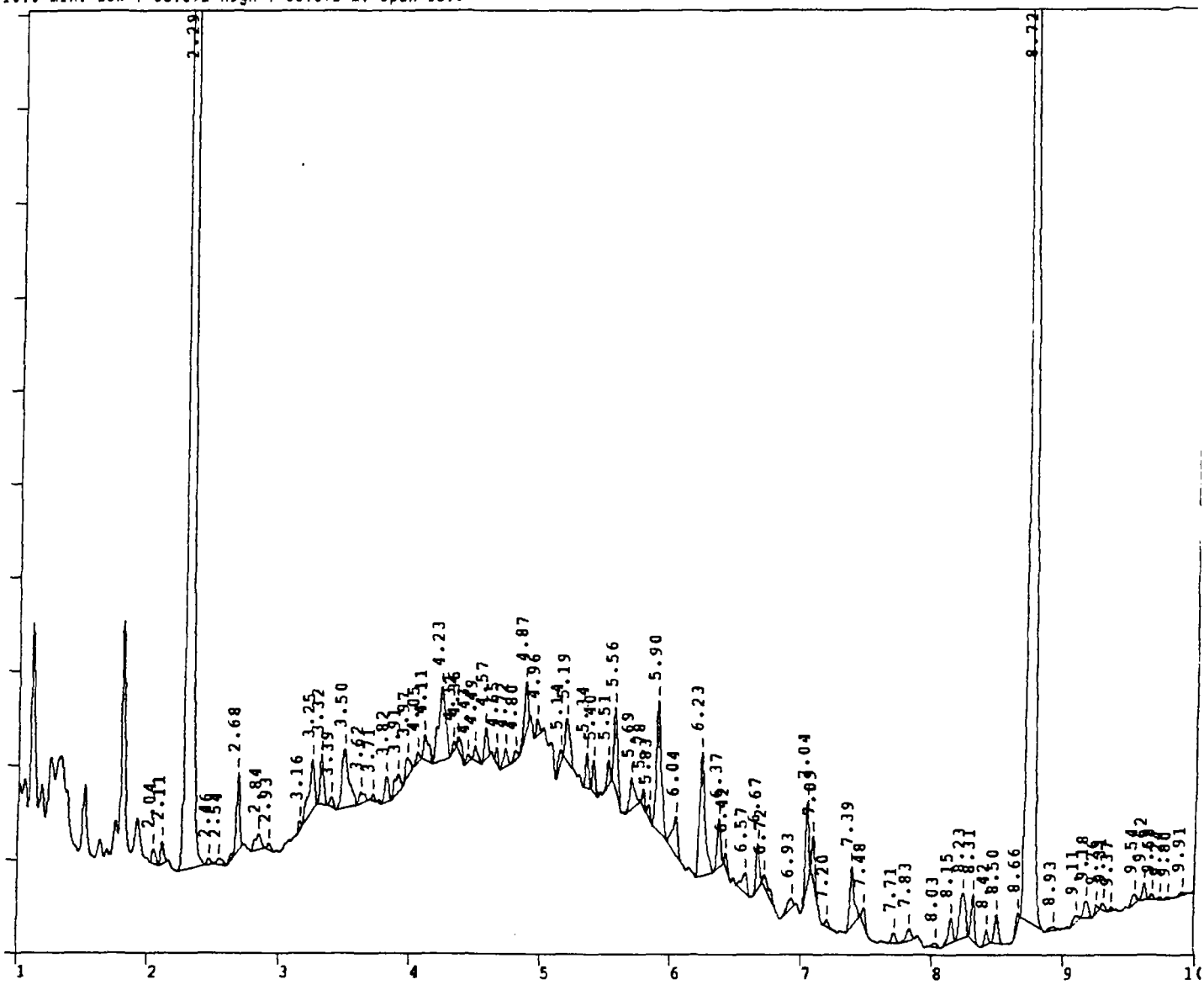
Reviewed by [signature] Date: 10/1/98 %SSR(A): 74 97 %
%SSR(B): 61 80 %

* This pattern is not in this sample, but values are supplied anyway.
** Calculated lowest amount found among all peaks with matching retention times.

Reported on 09-29-1998 19:23:44PCB File: C:\CP\1P7263B.TXT Last Calibrated on 09-21-1998 10:13:32 CheckPCB Revision 3.23

[signature]

File=C:\CP\DATA1\4P7263.22R Date printed=09-29-1998 Time= 14:42:19
Sample Name=3001161AF ABSVE11 T 982680010A
1.0 to 10.0 min. Low Y=68.692 High Y=83.692 mv Span=15.0



Lancaster Laboratories
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==========PCB==========
Sample Name: 3001161AF ABSVE11 T 982680010A
Instrument ID: CP07--H5088A Injected on: Sep 29, 1998 13:43:27
Vol. Inj. per column(ul): 1 GC Column ID: RTX-CLP, 30M X 0.32MM X 0.5MM
Raw File: C:\CP\DATA1\4P7263.22R

GC Conditions: Injector 250C Detector 300C
Oven - 160-0-15-300-4, H2 CARRIER, 12PSI
Run time: 10 Analyst: 120

==========PCB==========

Sample Name: 3001161AF ABSVE11 T 982680010A
Instrument ID: CP07--H5088A Injected on: Sep 29, 1998 13:43:27
Volume Inj. per column: 1 GC Column ID: RTX-CLP, 30M X 0.32MM X 0.5MM
Sample Amount: 1 Dilution Factor: 50
Raw File: C:\CP\DATA1\4P7263.22R

GC Conditions: Injector 250C Detector 280C
Oven: 160-0-15-300-4, H2 CARRIER, 12PSI
Analyst: 120

Integration & Calculation Parameters:
Threshold: 1 Width: .02 Area Reject: 0

Calib. Type: EXTERNAL Quantitation: HEIGHT

Peak Table:

Peak #	Ret Time (min)	Peak Height	Peak Area	Half Width (min)	Amount PPB	Peak Name
1	2.043	239	491	0.036	0.0000	
2	2.111	358	586	0.029	0.0000	
3	2.292	114730	195938	0.025	2956.8069	TCX
4	2.464	100	191	0.033	0.0000	
5	2.540	97	311	0.058	0.0000	
6	2.683	1249	2298	0.031	0.0000	
7	2.843	251	841	0.065	0.0000	
8	2.927	107	204	0.041	0.0000	
9	3.158	142	185	0.029	0.0000	
10	3.248	819	2479	0.049	0.0000	
11	3.317	773	1452	0.030	0.0000	
12	3.392	152	317	0.041	0.0000	
13	3.495	937	3500	0.053	0.0000	
14	3.619	188	486	0.055	0.0000	
15	3.711	109	164	0.026	0.0000	
16	3.815	391	844	0.037	0.0000	
17	3.906	258	865	0.075	0.0000	
18	3.971	323	749	0.060	0.0000	
19	4.048	174	288	0.043	0.0000	
20	4.105	384	1087	0.055	0.0000	
21	4.234	1156	4356	0.057	0.0000	
22	4.324	143	204	0.031	0.0000	
23	4.361	233	581	0.050	0.0000	
24	4.433	130	216	0.041	0.0000	
25	4.490	227	468	0.038	0.0000	
26	4.574	490	854	0.033	0.0000	
27	4.654	263	360	0.030	0.0000	
28	4.723	291	597	0.037	0.0000	
29	4.801	128	272	0.042	0.0000	
30	4.875	786	1493	0.045	0.0000	
31	4.964	244	364	0.029	0.0000	
32	5.140	222	466	0.040	0.0000	
33	5.189	670	1744	0.050	0.0000	
34	5.343	542	857	0.026	0.0000	
35	5.396	516	809	0.029	0.0000	
36	5.511	370	588	0.034	0.0000	
37	5.561	1301	2705	0.038	0.0000	
38	5.690	502	1347	0.054	0.0000	
39	5.782	264	374	0.033	0.0000	

42	6.043	603	1774	0.089	0.0000	
43	6.233	1962	.5593	0.042	0.0000	
44	6.371	770	1460	0.033	0.0000	
45	6.425	272	406	0.034	0.0000	
46	6.570	309	941	0.087	0.0000	
47	6.666	719	1293	0.033	0.0000	
48	6.716	200	810	0.084	0.0000	
49	6.931	144	515	0.064	0.0000	
50	7.044	1375	2261	0.033	0.0000	
51	7.091	704	1073	0.038	0.0000	
52	7.201	107	219	0.051	0.0000	
53	7.388	950	2162	0.036	0.0000	
54	7.480	260	552	0.050	0.0000	
55	7.714	163	370	0.036	0.0000	
56	7.828	201	540	0.050	0.0000	
57	8.030	69	170	0.049	0.0000	
58	8.146	402	877	0.037	0.0000	
59	8.233	707	2158	0.053	0.0000	
60	8.310	728	1341	0.032	0.0000	
61	8.418	240	424	0.032	0.0000	
62	8.496	454	963	0.034	0.0000	
63	8.658	182	275	0.030	0.0000	
64	8.723	90952	186489	0.030	2438.1072	DCB
65	8.933	58	226	0.097	0.0000	
66	9.108	94	272	0.058	0.0000	
67	9.183	262	684	0.043	0.0000	
68	9.259	114	189	0.038	0.0000	
69	9.309	105	190	0.035	0.0000	
70	9.366	55	70	0.024	0.0000	
71	9.544	149	355	0.052	0.0000	
72	9.617	264	502	0.031	0.0000	
73	9.677	90	150	0.028	0.0000	
74	9.737	56	90	0.026	0.0000	
75	9.798	38	63	0.049	0.0000	
76	9.909	44	90	0.049	0.0000	

FILES:
Area file: C:\CP\DATA1\4P7263.22A
Method file: C:\CP\DATA1\PCBS.MET
Calibration File: C:\CP\DATA1\1P7263.CAL
Format File: C:\CP\DATA1\PCBS.FMT
Area file created on: 09/29/98 14:43:08
File reported on: 09-29-1998at 14:43:24

FOR 8081 SSR:
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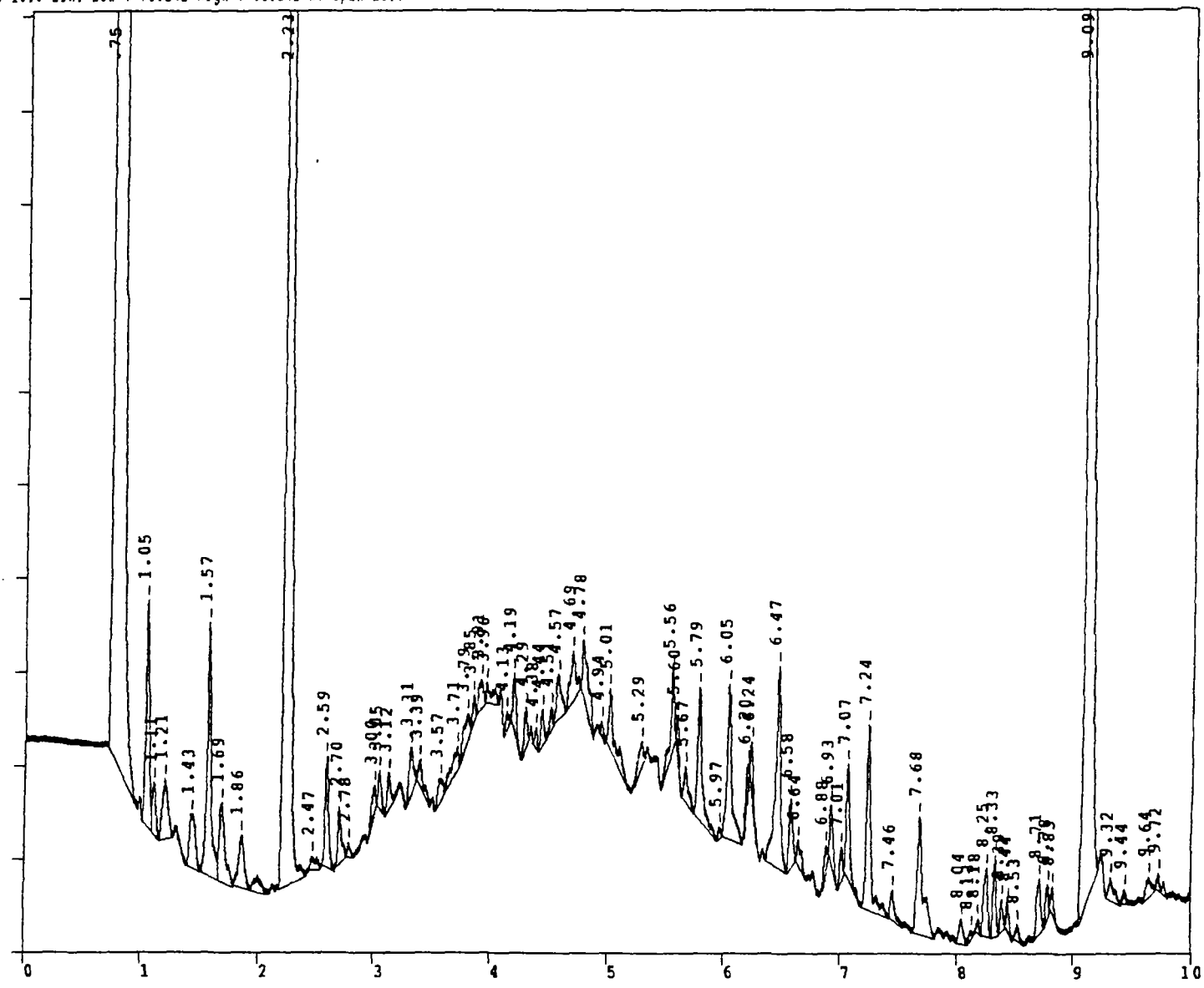
%DCB SSR = 60.95268

File=C:\CP\DATA1\4P7263B.22R Date printed=09-29-1998 Time= 14:43:39
Sample Name=3001161AF ABSVE11 T 982680010A
0.0 to 10.0 min. Low Y=73.142 High Y=88.142 av Span=15.0



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==========PCB==========
Sample Name: 3001161AF ABSVE11 T 982680010A
Instrument ID: CP07--H5088B Injected on: Sep 29, 1998 13:43:28
Vol. Inj. per column(ul): 1 GC Column ID: RTXCLP2, 30M X 0.32MM X 0.25UM
Raw File: C:\CP\DATA1\4P7263B.22R

GC Conditions: Injector 250C Detector 300C
Oven - 160-0-15-300-4, H2 CARRIER, 12PSI
Run time: 10 Analyst: 120

==========PCB==========

Sample Name: 3001161AF ABSVE11 T 982680010A
Instrument ID: CP07--H5088B Injected on: Sep 29, 1998 13:43:28
Volume Inj. per column: 1 GC Column ID: RTXCLP2, 30M X 0.32MM X 0.25UM
Sample Amount: 1 Dilution Factor: 50
Raw File: C:\CP\DATA1\4P7263B.22R

GC Conditions: Injector 250C Detector 280C
Oven: 160-0-15-300-4, H2 CARRIER, 12PSI
Analyst: 120

Integration & Calculation Parameters:
Threshold: 1 Width: .02 Area Reject: 0

Calib. Type: EXTERNAL Quantitation: HEIGHT

Peak Table:

Peak #	Ret Time (min)	Peak Height	Peak Area	Half Width (min)	Amount PPB	Peak Name
1	0.749	159266	649394	0.067	0.0000	
2	1.050	3613	7387	0.030	0.0000	
3	1.113	833	1804	0.041	0.0000	
4	1.208	953	3212	0.056	0.0000	
5	1.434	863	3063	0.058	0.0000	
6	1.572	4033	10210	0.032	0.0000	
7	1.692	1266	4215	0.047	0.0000	
8	1.861	839	4093	0.058	0.0000	
9	2.225	176182	314540	0.026	3872.9336	TCX
10	2.467	211	671	0.075	0.0000	
11	2.588	1778	3657	0.032	0.0000	
12	2.703	911	1923	0.031	0.0000	
13	2.782	228	401	0.033	0.0000	
14	3.003	469	1061	0.045	0.0000	
15	3.046	599	1159	0.035	0.0000	
16	3.125	598	1182	0.084	0.0000	
17	3.309	793	1918	0.066	0.0000	
18	3.388	436	1293	0.056	0.0000	
19	3.567	377	1101	0.067	0.0000	
20	3.709	386	1568	0.088	0.0000	
21	3.793	440	1568	0.073	0.0000	
22	3.846	431	632	0.034	0.0000	
23	3.914	446	1152	0.054	0.0000	
24	3.962	328	1137	0.091	0.0000	
25	4.130	289	458	0.046	0.0000	
26	4.193	951	1956	0.049	0.0000	
27	4.293	657	1076	0.034	0.0000	
28	4.378	322	487	0.029	0.0000	
29	4.435	583	1066	0.033	0.0000	
30	4.509	341	478	0.029	0.0000	
31	4.572	699	1959	0.060	0.0000	
32	4.693	769	2589	0.085	0.0000	
33	4.778	904	3380	0.067	0.0000	
34	4.936	254	366	0.030	0.0000	
35	5.009	975	3621	0.059	0.0000	
36	5.288	414	1251	0.072	0.0000	
37	5.556	1259	2913	0.039	0.0000	
38	5.599	703	969	0.032	0.0000	
39	5.672	573	1453	0.044	0.0000	
40	5.788	2101	5947	[illegible]	[illegible]	

42	6.046	2470	7154	0.035	0.0000	
43	6.204	426	628	0.028	0.0000	
44	6.236	782	1356	0.038	0.0000	
45	6.467	3211	9884	0.041	0.0000	
46	6.578	1119	2256	0.035	0.0000	
47	6.641	388	1105	0.061	0.0000	
48	6.883	371	612	0.036	0.0000	
49	6.926	960	2050	0.040	0.0000	
50	7.015	522	808	0.034	0.0000	
51	7.068	1834	4119	0.037	0.0000	
52	7.241	2935	7930	0.037	0.0000	
53	7.457	487	1152	0.039	0.0000	
54	7.679	1863	6810	0.040	0.0000	
55	8.041	395	1016	0.043	0.0000	
56	8.126	151	194	0.029	0.0000	
57	8.184	239	330	0.032	0.0000	
58	8.252	1083	2609	0.040	0.0000	
59	8.325	1298	2286	0.027	0.0000	
60	8.389	502	773	0.029	0.0000	
61	8.437	478	851	0.034	0.0000	
62	8.526	264	552	0.044	0.0000	
63	8.710	902	2261	0.044	0.0000	
64	8.784	541	829	0.036	0.0000	
65	8.826	453	791	0.038	0.0000	
66	9.094	134448	279246	0.030	3197.9355	DCB
67	9.321	374	1158	0.070	0.0000	
68	9.442	236	373	0.032	0.0000	
69	9.642	316	988	0.083	0.0000	
70	9.721	281	698	0.070	0.0000	

FILES:
Area file: C:\CP\DATA1\4P7263B.22A
Method file: C:\CP\DATA1\PCBSB.MET
Calibration File: C:\CP\DATA1\1P7263B.CAL
Format File: C:\CP\DATA1\PCBS.FMT
Area file created on: 09/29/98 14:44:50
File reported on: 09-29-1998at 14:45:02

FOR 8081 SSR:
%TCX SSR = 96.82334
%DCB SSR = 79.94839

Lancaster Laboratories
Where quality is a science.

Batch No: 982750000A

Sample Name: 3001161R AF SVE11
Injected on: 10-02-1998 11:30:18 Instrument: CP07--H5088A Analyst: 883 Area File Name: C:\CP\DATA1\5P7263.53A
Sample Amount: 1 G or mL Total Volume: 50 mL

Units: uG/L or dG/kG

Pattern	Amount Found	No Of Peaks Found	Minimum Required	%RSD	Maximum Allowed %RSD	Worst Case**	Comments
Aroclor-1016*	650.7141	3	4	50.82790%	15.0000%	269.418854	<2500
Aroclor-1221*	180.2384	1	3	0.00000%	5.0000%	180.238403	
Aroclor-1232*	1394.3259	4	4	76.88723%	10.0000%	261.907898	
Aroclor-1242*	1056.6075	3	4	9.80428%	30.0000%	330.543304	
Aroclor-1248*	1722.5211	5	4	33.89383%	30.0000%	199.219742	
Aroclor-1254*	1148.6172	7	4	45.35877%	40.0000%	478.691162	
Aroclor-1260	774.7310	5	4	37.32197%	40.0000%	284.874817	Report B

Peaks Used To Quantify Above Amount Found Values:

Pattern	Retention Time and Calculated Amount Found for Each Peak						
Aroclor-1016	3.250	3.494	4.136				
	822.5939	860.1295	269.4189				
Aroclor-1221	2.466						
	180.2384						
Aroclor-1232	2.466	3.250	3.494	4.136			
	261.9079	2189.1760	2422.4106	703.8091			
Aroclor-1242	2.685	3.250	3.494				
	949.3508	1064.3728	1156.0992				
Aroclor-1248	3.494	4.241	4.629	4.875	5.339		
	2147.2854	2297.8992	968.3046	1955.1252	1243.9913		
Aroclor-1254	4.582	4.875	5.339	5.565	5.692	5.898	6.231
	1154.3322	913.8792	478.6912	2107.2786	826.5491	1096.0458	1463.5441
Aroclor-1260	5.565	5.898	6.231	6.378	~~7.044~~		
	951.2053	665.0392	1191.5659	516.3496	549.4980		

Non-Quantitation Peaks with matching retention times:

Aroclor-1016	3.213		
	672.3774		
Aroclor-1232	3.213		
	1789.4037		
Aroclor-1242	3.213	4.241	4.136
	870.0043	4496.3076	330.5433
Aroclor-1248	4.136		
	199.2197		
Aroclor-1254	4.542	5.190	
	159.9323	2456.6313	
Aroclor-1260	6.670		
	284.8748		

Reviewed by M. Lilb Date: 10-02-98 %SSR(A): TCX 70 %
%SSR(B): DCB 59 %

* This pattern is not in this sample, but values are supplied anyway.
** Calculated lowest amount found among all peaks with matching retention times.

Reported on 10-02-1998 13:37:38PCB File: C:\CP\1P7263.TXT Last Calibrated on 09-21-1998 08:47:39 CheckPCB Revision 3.23

Lancaster Laboratories
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Batch No: 982750000A

Sample Name: 3001161R AF SVE11
Injected on: 10-02-1998 11:30:18 Instrument: CP07--H5088B Analyst: 883 Area File Name: C:\CP\DATA1\5P7263B.53A
Sample Amount: 1 G or mL Total Volume: 50 mL

Units: uG/L or uG/KG

Pattern	Amount Found	No Of Peaks Found	Minimum Required	%RSD	Maximum Allowed %RSD	Worst Case**	Comments
Aroclor-1016*	473.0575	5	4	57.68509%	15.0000%	164.382706	<2500
Aroclor-1221*	2571.6895	2	3	112.33460%	5.0000%	528.930603	peaks absent
Aroclor-1232*	733.4186	4	4	46.03942%	10.0000%	442.875977	
Aroclor-1242*	592.6454	3	4	46.28252%	30.0000%	210.458191	
Aroclor-1248*	481.7655	3	4	29.05351%	30.0000%	327.755615	
Aroclor-1254	1285.5818	7	4	31.48763%	40.0000%	863.272644	J NO PATTERN
Aroclor-1260	922.6923	7	4	25.45253%	40.0000%	725.401489	J CONFIRMS ORIGINAL EXTRACTION

Peaks Used To Quantify Above Amount Found Values:

Pattern	Retention Time and Calculated Amount Found for Each Peak						
Aroclor-1016	2.704	3.128	3.641	3.768	4.435		
	679.9337	480.8001	164.3827	241.4273	798.7437		
Aroclor-1221	2.593	2.704					
	4614.4482	528.9306					
Aroclor-1232	2.704	3.128	3.641	3.768			
	634.0476	1221.4115	442.8760	635.3392			
Aroclor-1242	2.593	3.128	3.768				
	850.9911	622.1511	304.7942				
Aroclor-1248	3.641	4.017	4.435				
	327.7556	601.2235	516.3173				
Aroclor-1254	4.784	5.007	5.430	5.558	5.843	6.045	6.473
	1171.7704	1125.4108	890.1970	863.2726	1315.7579	1967.3126	1665.3513
Aroclor-1260	5.785	6.045	6.473	6.579	6.929	7.215	7.685
	816.1506	970.8769	1416.0609	725.4015	741.9545	911.8661	876.5353

Non-Quantitation Peaks with matching retention times:

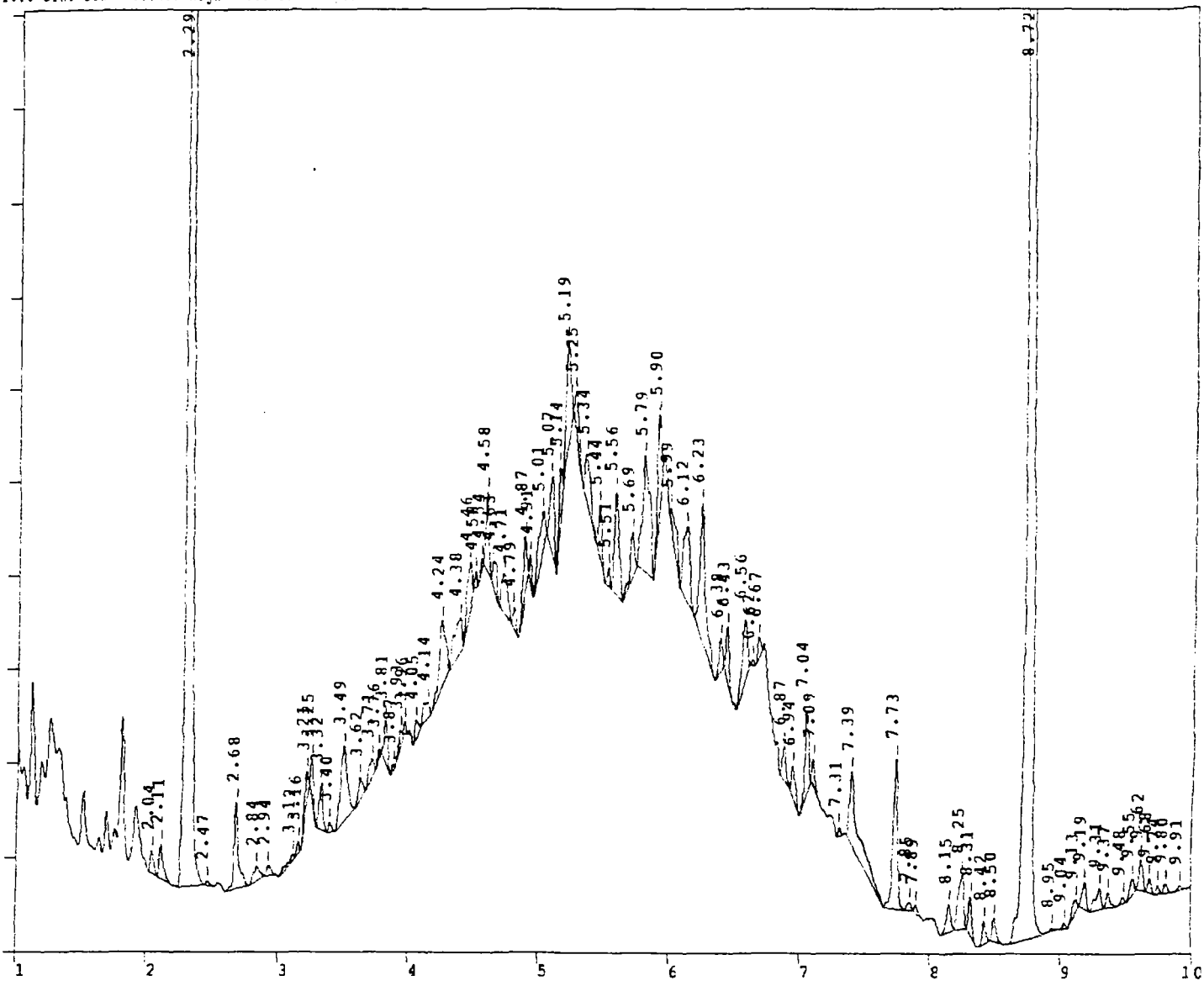
Aroclor-1016	4.292		
	1654.5287		
Aroclor-1232	4.292	4.435	
	4377.8223	1932.2355	
Aroclor-1242	4.292	4.435	3.641
	2025.5338	879.6949	210.4582
Aroclor-1248	3.969	5.558	4.784
	260.1814	2263.5693	1865.4956

Reviewed by M. Kielb Date: 10-02-98 %SSR(A): TCX 92 %
%SSR(B): DCB 73 %

* This pattern is not in this sample, but values are supplied anyway.
** Calculated lowest amount found among all peaks with matching retention times.

Reported on 10-02-1998 14:48:28PCB File: C:\CP\1P7263B.TXT Last Calibrated on 09-21-1998 10:13:32 CheckPCB Revision 3.23

File=C:\CP\DATA1\5P7263.53R Date printed=10-02-1998 Time= 12:03:51
Sample Name=3001161R AF ABSVE11 T 982750000A
1.0 to 10.0 min. Low Y=68.467 High Y=83.467 av Scan=15.0



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==========PCB==========
Sample Name: 3001161R AF ABSVE11 T 982750000A
Instrument ID: CP07--H5088A Injected on: Oct 2, 1998 11:30:18
Vol. Inj. per column(ul): 1 GC Column ID: RTX-CLP, 30M X 0.32MM X 0.5MM
Raw File: C:\CP\DATA1\5P7263.53R

GC Conditions: Injector 250C Detector 300C
Oven - 160-0-15-300-4, H2 CARRIER, 12PSI
Run time: 10 Analyst: 883

==========PCB==========

Sample Name: 3001161R AF ABSVE11 T 982750000A
Instrument ID: CP07--H5088A Injected on: Oct 2, 1998 11:30:18
Volume Inj. per column: 1 GC Column ID: RTX-CLP, 30M X 0.32MM X 0.5MM
Sample Amount: 1 Dilution Factor: 50
Raw File: C:\CP\DATA1\5P7263.53R

GC Conditions: Injector 250C Detector 280C
Oven: 160-0-15-300-4, H2 CARRIER, 12PSI
Analyst: 883

Integration & Calculation Parameters:
Threshold: 1 Width: .02 Area Reject: 0

Calib. Type: EXTERNAL Quantitation: HEIGHT

Peak Table:

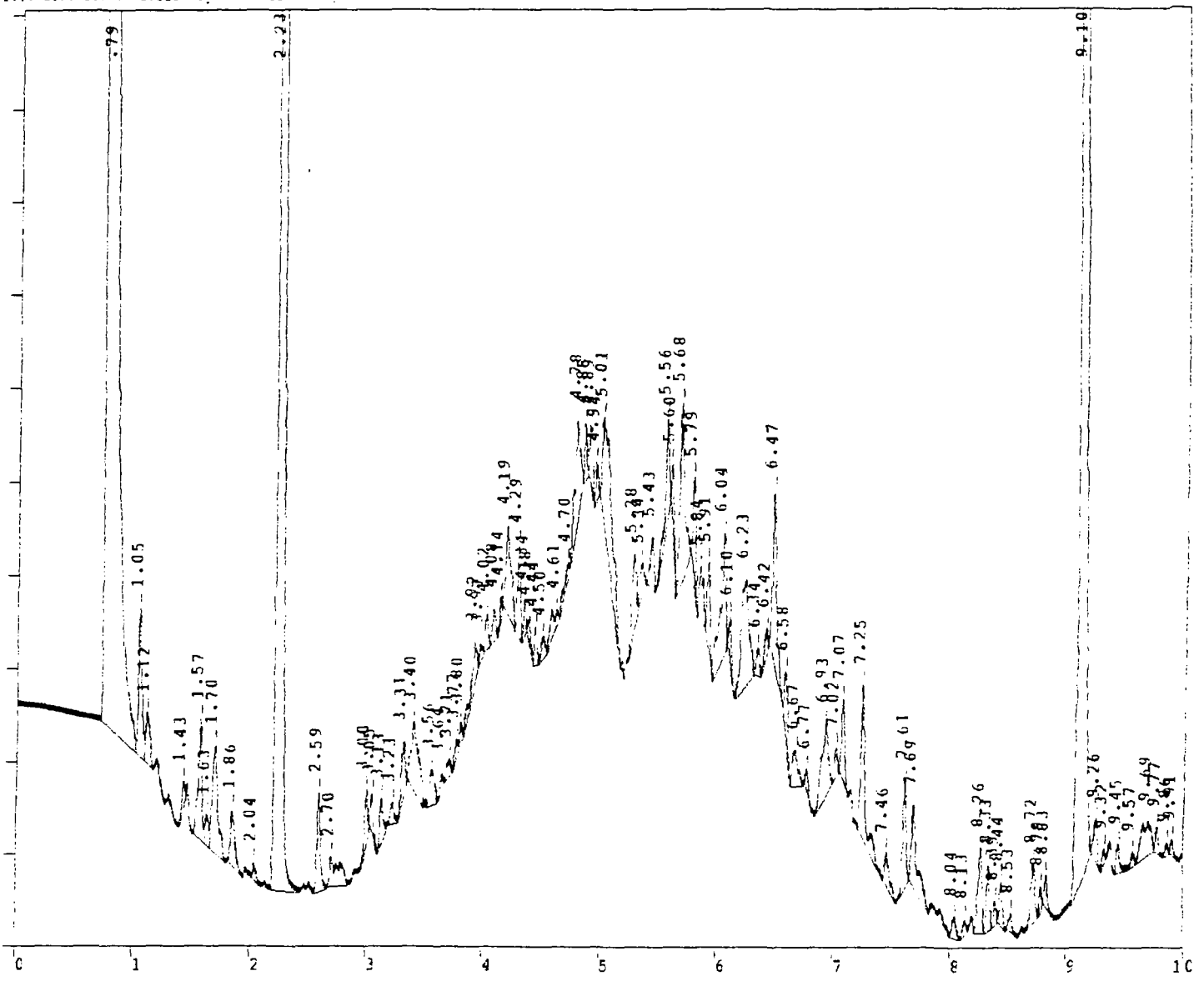
Peak #	Ret Time (min)	Peak Height	Peak Area	Half Width (min)	Amount PPB	Peak Name
1	2.045	361	651	0.032	0.0000	
2	2.112	543	1148	0.033	0.0000	
3	2.294	109194	137726	0.025	2814.1233	TOX
4	2.466	64	123	0.034	0.0000	
5	2.685	1357	3284	0.031	0.0000	
6	2.845	218	714	0.085	0.0000	
7	2.937	152	333	0.038	0.0000	
8	3.121	86	326	0.069	0.0000	
9	3.159	188	235	0.025	0.0000	
10	3.213	508	840	0.031	0.0000	
11	3.250	621	1041	0.040	0.0000	
12	3.323	734	1505	0.034	0.0000	
13	3.396	157	265	0.023	0.0000	
14	3.494	1208	4353	0.062	0.0000	
15	3.622	353	744	0.053	0.0000	
16	3.714	278	798	0.058	0.0000	
17	3.762	157	162	0.022	0.0000	
18	3.815	685	1429	0.043	0.0000	
19	3.873	93	104	0.026	0.0000	
20	3.928	204	394	0.035	0.0000	
21	3.964	196	225	0.019	0.0000	
22	4.052	251	494	0.046	0.0000	
23	4.136	251	877	0.066	0.0000	
24	4.241	1087	3608	0.073	0.0000	
25	4.380	534	2283	0.081	0.0000	
26	4.457	705	1973	0.055	0.0000	
27	4.496	263	288	0.020	0.0000	
28	4.542	174	245	0.025	0.0000	
29	4.582	1258	2051	0.029	0.0000	
30	4.629	410	1194	0.051	0.0000	
31	4.713	647	2095	0.060	0.0000	
32	4.792	361	563	0.032	0.0000	
33	4.875	912	1754	0.042	0.0000	
34	4.914	443	526	0.029	0.0000	
35	5.008	602	2266	0.071	0.0000	
36	5.073	1243	2764	0.050	0.0000	
37	5.138	780	1415	0.036	0.0000	
38	5.190	1760	3964	0.060	0.0000	
39	5.251	591	1621	0.050	0.0000	
40	5.339	802	2345	0.065	0.0000	

42	5.511	296	413	0.026	0.0000
43	5.565	1625	4071	0.040	0.0000
44	5.692	716	1633	0.053	0.0000
45	5.789	1838	7252	0.069	0.0000
46	5.898	1542	3249	0.049	0.0000
47	5.990	304	1478	0.067	0.0000
48	6.116	1196	4161	0.068	0.0000
49	6.231	2174	6600	0.049	0.0000
50	6.378	544	973	0.034	0.0000
51	6.429	837	1463	0.038	0.0000
52	6.561	1024	2807	0.059	0.0000
53	6.624	105	121	0.020	0.0000
54	6.670	319	552	0.041	0.0000
55	6.867	532	1066	0.037	0.0000
56	6.937	476	1118	0.053	0.0000
57	7.044	1352	2460	0.034	0.0000
58	7.093	423	665	0.038	0.0000
59	7.306	129	172	0.024	0.0000
60	7.392	1127	5534	0.108	0.0000
61	7.729	2345	5538	0.035	0.0000
62	7.847	125	282	0.040	0.0000
63	7.893	120	238	0.044	0.0000
64	8.149	432	1013	0.038	0.0000
65	8.248	867	2684	0.054	0.0000
66	8.312	609	1092	0.034	0.0000
67	8.421	354	638	0.032	0.0000
68	8.498	374	800	0.035	0.0000
69	8.725	87648	182811	0.030	2349.5371 DCB
70	8.947	43	115	0.069	0.0000
71	9.041	89	151	0.030	0.0000
72	9.127	200	546	0.053	0.0000
73	9.191	420	937	0.041	0.0000
74	9.306	323	1065	0.069	0.0000
75	9.370	232	463	0.029	0.0000
76	9.482	113	186	0.034	0.0000
77	9.552	245	514	0.047	0.0000
78	9.617	487	975	0.033	0.0000
79	9.678	319	379	0.030	0.0000
80	9.741	133	215	0.028	0.0000
81	9.798	141	280	0.031	0.0000
82	9.908	74	139	0.050	0.0000

FILES:
Area file: C:\CP\DATA1\5P7263.53A
Method file: C:\CP\DATA1\PCBW.MET
Calibration File: C:\CP\DATA1\1P7263.CAL
Format File: C:\CP\DATA1\PCBW.FMT
Area file created on: 10/02/98 12:04:40
File reported on: 10-02-1998at 12:04:57

FOR 8081 SSR:
%TCX SSR =703.5308/10
%DCB SSR =587.3843/10

File:C:\CP\DATA1\5P72638.53R Date printed=10-02-1998 Time= 12:05:17
Sample Name=3001161R AF ABSVE11 T 982750000A
0.0 to 10.0 min. Low Y=72.212 High Y=67.212 Av Span=15.0



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==========FCB==========

Sample Name: 3001161R AF ABSVE11 T 982750000A
Instrument ID: CP07--H5088B Injected on: Oct 2, 1998 11:30:18
Vol. Inj. per column(ul): 1 GC Column ID: RTXCLP2, 30M X 0.32MM X 0.25UM
Raw File: C:\CP\DATA1\5P72638.53R

GC Conditions: Injector 250C Detector 300C
Oven - 160-0-15-300-4, H2 CARRIER, 12PSI
Run time: 10 Analyst: 083

==========PCB==========

Sample Name: 3001161R AF ABSVE11 T 982750000A
Instrument ID: CP07--H5088B Injected on: Oct 2, 1998 11:30:18
Volume Inj. per column: 1 GC Column ID: RTXCLP2, 30M X 0.32MM X 0.25UM
Sample Amount: 1 Dilution Factor: 50
Raw File: C:\CP\DATA1\5P7263B.53R

GC Conditions: Injector 250C Detector 280C
Oven: 160-0-15-300-4, H2 CARRIER, 12PSI
Analyst: 583

Integration & Calculation Parameters:
Threshold: 1 Width: .02 Area Reject: 0

Calib. Type: EXTERNAL Quantitation: HEIGHT

Peak Table:

Peak #	Ret Time (min)	Peak Height	Peak Area	Half Width (min)	Amount PPB	Peak Name
1	0.738	64187	293441	0.073	0.0000	
2	1.051	2380	4819	0.030	0.0000	
3	1.116	333	1098	0.051	0.0000	
4	1.429	453	661	0.035	0.0000	
5	1.571	1946	4506	0.031	0.0000	
6	1.635	518	1023	0.028	0.0000	
7	1.698	1743	5372	0.050	0.0000	
8	1.857	927	2490	0.047	0.0000	
9	2.042	309	498	0.038	0.0000	
10	2.127	167347	295819	0.025	3678.7190	TOX
11	2.593	1618	3359	0.031	0.0000	
12	2.704	485	2654	0.125	0.0000	
13	3.000	659	1388	0.038	0.0000	
14	3.048	669	1172	0.040	0.0000	
15	3.128	752	1523	0.056	0.0000	
16	3.228	349	790	0.038	0.0000	
17	3.313	908	1812	0.048	0.0000	
18	3.397	1104	5214	0.109	0.0000	
19	3.556	602	1708	0.055	0.0000	
20	3.641	306	504	0.041	0.0000	
21	3.710	301	732	0.054	0.0000	
22	3.768	252	458	0.032	0.0000	
23	3.800	312	410	0.033	0.0000	
24	3.921	652	2025	0.062	0.0000	
25	3.969	251	361	0.036	0.0000	
26	4.017	581	1054	0.033	0.0000	
27	4.080	537	960	0.034	0.0000	
28	4.139	317	385	0.028	0.0000	
29	4.191	1423	4516	0.061	0.0000	
30	4.292	1523	2727	0.030	0.0000	
31	4.340	597	670	0.021	0.0000	
32	4.377	434	674	0.035	0.0000	
33	4.435	631	941	0.024	0.0000	
34	4.499	365	763	0.045	0.0000	
35	4.610	267	1423	0.079	0.0000	
36	4.700	244	821	0.062	0.0000	
37	4.734	1519	5070	0.078	0.0000	
38	4.848	887	1056	0.022	0.0000	
39	4.890	1022	1917	0.036	0.0000	
40	4.943	641	934	0.026	0.0000	

42	5.277	1225	3137	0.058	0.0000
43	5.340	539	1189	0.067	0.0000
44	5.430	853	1928	0.039	0.0000
45	5.588	1600	3455	0.045	0.0000
46	5.600	1135	1694	0.035	0.0000
47	5.679	2863	7448	0.038	0.0000
48	5.785	1729	2868	0.041	0.0000
49	5.843	889	2185	0.049	0.0000
50	5.912	1381	2655	0.042	0.0000
51	6.045	1971	6101	0.039	0.0000
52	6.098	741	1190	0.036	0.0000
53	6.230	1731	7804	0.082	0.0000
54	6.336	454	813	0.034	0.0000
55	6.415	347	808	0.042	0.0000
56	6.473	2811	7065	0.041	0.0000
57	6.579	1000	2331	0.050	0.0000
58	6.674	597	2021	0.050	0.0000
59	6.770	375	622	0.036	0.0000
60	6.929	1185	4427	0.078	0.0000
61	7.019	490	829	0.031	0.0000
62	7.072	1291	2637	0.036	0.0000
63	7.245	2442	6752	0.041	0.0000
64	7.458	539	1514	0.050	0.0000
65	7.611	1780	3194	0.031	0.0000
66	7.685	1350	4681	0.044	0.0000
67	8.040	363	919	0.044	0.0000
68	8.134	262	436	0.056	0.0000
69	8.263	1379	3251	0.038	0.0000
70	8.330	1085	1914	0.029	0.0000
71	8.393	404	627	0.028	0.0000
72	8.441	712	1254	0.029	0.0000
73	8.531	301	655	0.045	0.0000
74	8.722	965	2393	0.043	0.0000
75	8.786	398	536	0.033	0.0000
76	8.828	519	947	0.034	0.0000
77	9.097	123175	248996	0.029	2909.7996 DCB
78	9.256	713	1520	0.048	0.0000
79	9.324	258	398	0.047	0.0000
80	9.446	471	1102	0.033	0.0000
81	9.568	239	441	0.044	0.0000
82	9.695	561	3173	0.109	0.0000
83	9.774	436	719	0.029	0.0000
84	9.963	208	323	0.034	0.0000
85	9.906	271	492	0.039	0.0000

FILES:
Area file: C:\CP\DATA1\5P7263B.53A
Method file: C:\CP\DATA1\PCBWB.MET
Calibration File: C:\CP\DATA1\1P7263B.CAL
Format File: C:\CP\DATA1\PCBW.FMT
Area file created on: 10/02/98 12:06:24
File reported on: 10-02-1998at 12:06:42

FOR 8081 SSR:
STCX SSR =919.6797
SDCB SSR =732.4499

Lancaster Laboratories Multiple Component Pesticide Data Summary

Sample Name: 3001162 T DF500 WESTS **Sample ID:** AB **Batchnumber:** 982650008A
Sample Amount: 250 ml Total Volume: 5000 ml Analyst: 883 SDG: State: OH
Analyses: 00173

Analysis Report (A)

Injected on : SEP 24, 1998 22:29:19
Instrument : CP03--H4783A
Result file : 4P3259.10R
Calibration file : 1P3259.CAL
Method file : PESTWD.MET
%SSR(TCX) : *346.8%
%SSR(DCB) : 73.2%

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016				**197.501314**	**3**	**93.52**	
3.70	3.76	3.77	1294.9	410.47610			1
4.42	4.45	4.49	169.0	101.02234			3
4.92	4.96	4.99	349.3	81.00557			5
Aroclor-1221				**294.904149**	**1**		
3.71	3.76	3.78	1294.9	294.90417			3
Aroclor-1232				**275.539343**	**2**	**35.59**	
3.71	3.76	3.78	1294.9	344.88849			2
4.93	4.96	5.00	349.3	206.19031			5
Aroclor-1242				**118.104649**	**3**	**27.32**	
3.73	3.76	3.80	1294.9	154.68262			1
4.60	4.65	4.67	174.1	93.70720			3
4.93	4.96	5.00	349.3	105.92418			5
Aroclor-1248				**656.778405**	**4**	**76.59**	
6.60	6.66	6.67	1431.1	647.04400			3
6.75	6.80	6.82	1456.7	396.63556			4
7.09	7.10	7.16	499.9	219.46094			5
7.44	7.49	7.51	2719.8	1363.97350			6
Aroclor-1254				**213.530612**	**6**	**83.76**	
5.94	5.97	6.01	231.6	54.19995			1
6.25	6.29	6.32	3521.1	547.87433			2
6.61	6.66	6.68	1431.1	249.38348			3
6.76	6.80	6.82	1456.7	153.23535			4
7.10	7.10	7.17	499.9	81.12824			5
7.33	7.39	7.40	1109.5	195.36249			6
Aroclor-1260				**106.911046**	**3**	**52.20**	
6.98	7.00	7.05	685.9	82.06893			1
7.67	7.69	7.74	1767.0	170.82375			3
8.49	8.52	8.56	903.2	67.84050			6

Analysis Report (B)

Injected on : SEP 24, 1998 22:29:19
Instrument : CP03--H4783B
Result file : 4P3259B.10R
Calibration file : 1P3259B.CAL
Method file : PESTWDB.MET
%SSR(DCB) : *192.5% 55%.

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016				**126.775312**	**3**	**70.32**	
4.14	4.20	4.21	1514.2	229.71547			1
4.68	4.70	4.75	784.6	75.24487			2
6.07	6.08	6.14	668.8	75.36564			6
Aroclor-1221				**173.084363**	**2**	**2.28**	
3.88	3.89	3.95	702.6	170.29549			1
4.15	4.20	4.22	1514.2	175.87329			3
Aroclor-1232				**193.379443**	**3**	**4.87**	
4.15	4.20	4.22	1514.2	204.20638			1
4.69	4.70	4.76	784.6	188.94269			2
6.08	6.08	6.15	668.8	186.98936			6
+6.08	6.15	6.15	536.2	149.92194			6
Aroclor-1242				**93.725877**	**2**	**5.60**	
4.69	4.70	4.76	784.6	97.43853			2
6.08	6.08	6.15	668.8	90.01325			6
Aroclor-1248				**70.564122**	**2**	**33.30**	
6.07	6.08	6.14	668.8	53.94916			3
+6.23	6.24	6.30	353.9	32.79644			4
6.23	6.30	6.30	940.7	87.17910			4
Aroclor-1254				**220.924464**	**4**	**79.13**	
6.85	6.86	6.92	843.2	60.45698			2
7.29	7.31	7.36	1247.9	124.32135			3
7.72	7.75	7.79	6588.7	457.96783			5
7.94	8.00	8.01	2395.2	240.95180			6
Aroclor-1260				**225.914826**	**5**	**48.57**	
7.47	7.51	7.54	2869.7	370.37491			1
7.67	7.68	7.74	4988.2	316.51257			2
7.93	8.00	8.00	2395.2	127.43328			3
8.38	8.43	8.45	2901.1	163.25694			4
9.17	9.18	9.24	3665.4	151.99654			6

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			<1000			4	25	236
Aroclor-1221			<1000			3	5	
Aroclor-1232			<1000			4	10	
Aroclor-1242			<1000			4	30	
Aroclor-1248			<1000			4	30	
Aroclor-1254			<1000			4	40	
Aroclor-1260			<1000			4	40	

Reviewed by: RCJ 8/4 Date: 9/25/98
Verified by: Date:

DF performed due to spacing.

%Difference = High - Low Amount divided by the Average times 100
*Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 9/25/98 07:37:11

Sample Name: **3001162T DF500 ABWESTS T 982650008A 00173**
Acquired from CP03--H4783A via port 1 on 9/24/98 10:42:19pm by 883
RTX-CLP 30MX0.32MMX0.25UM
140C TO 300C AT 15C/MIN
Data File: **C:\CPWIN\DATA1\4P3259.10R**
Method File: C:\CPWIN\DATA1\PESTWD.MET
Calibration File: C:\CPWIN\DATA1\1P3259.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	2.627		0.0000	0.000	38999.8	1.649	BB	0.072	9061.82	1.513
2	2.981		0.0000	0.000	693.4	0.029	BB	0.031	377.98	0.063
3	3.059		0.0000	0.000	1093.8	0.046	BB	0.042	437.41	0.073
4	3.309	TCX	1391.3010	82.583	3778.2	0.160	BB	0.066	947.10	0.158
5	3.644		0.0000	0.000	399.3	0.017	BB	0.043	155.04	0.026
6	3.755		0.0000	0.000	6820.2	0.288	BB	0.088	1294.85	0.216
7	4.021		0.0000	0.000	2542.5	0.107	BB	0.078	544.57	0.091
8	4.304		0.0000	0.000	403.5	0.017	BB	0.033	206.36	0.034
9	4.445		0.0000	0.000	292.6	0.012	BB	0.029	169.05	0.028
10	4.518		0.0000	0.000	1930.2	0.082	BB	0.040	794.85	0.133
11	4.651		0.0000	0.000	1067.4	0.045	BB	0.102	174.09	0.029
12	4.903		0.0000	0.000	287.8	0.012	BB	0.054	89.51	0.015
13	4.965		0.0000	0.000	709.4	0.030	BB	0.034	349.29	0.058
14	5.064		0.0000	0.000	1113.2	0.047	BB	0.060	310.89	0.052
15	5.637		0.0000	0.000	1561.6	0.066	BB	0.047	551.16	0.092
16	5.821		0.0000	0.000	860.4	0.036	BB	0.065	221.18	0.037
17	5.965		0.0000	0.000	687.7	0.029	BB	0.049	231.57	0.039
18	6.089		0.0000	0.000	267.4	0.011	BB	0.029	155.82	0.026
19	6.295		0.0000	0.000	10037.7	0.424	BB	0.048	3521.10	0.588
20	6.404		0.0000	0.000	367.4	0.016	BB	0.028	220.42	0.037
21	6.484		0.0000	0.000	578.0	0.024	BB	0.049	195.22	0.033
22	6.581		0.0000	0.000	3677.9	0.156	BV	0.070	876.15	0.146
23	6.663		0.0000	0.000	5208.0	0.220	VV	0.061	1431.13	0.239
24	6.797		0.0000	0.000	8224.3	0.348	VV	0.094	1456.73	0.243
25	6.915		0.0000	0.000	8368.2	0.354	VV	0.055	2557.59	0.427
26	6.995		0.0000	0.000	2763.9	0.117	VB	0.067	685.85	0.114
27	7.097		0.0000	0.000	916.3	0.039	BB	0.031	499.87	0.083
28	7.388		0.0000	0.000	4594.4	0.194	BV	0.069	1109.54	0.185
29	7.489		0.0000	0.000	11318.7	0.479	VV	0.069	2719.84	0.454
30	7.591		0.0000	0.000	9121.9	0.386	VV	0.077	1968.98	0.329
31	7.692		0.0000	0.000	4941.3	0.209	VV	0.047	1766.97	0.295
32	7.764		0.0000	0.000	5026.7	0.213	VB	0.079	1065.27	0.178
33	8.374		0.0000	0.000	1407.9	0.060	BB	0.047	502.49	0.084
34	8.456		0.0000	0.000	590.4	0.025	BB	0.025	387.99	0.065
35	8.516		0.0000	0.000	1967.1	0.083	BB	0.036	903.24	0.151
36	8.607		0.0000	0.000	415.3	0.018	BB	0.026	265.91	0.044
37	8.731		0.0000	0.000	37125.7	1.570	BB	0.039	16067.29	2.682
38	8.950		0.0000	0.000	2169956.0	91.747	BB	0.067	539611.60	90.082
39	9.419		0.0000	0.000	1748.7	0.074	BB	0.050	578.42	0.097
40	9.566		0.0000	0.000	794.9	0.034	BB	0.043	307.63	0.051
41	9.973		0.0000	0.000	370.6	0.016	BB	0.035	176.73	0.030
42	10.047		0.0000	0.000	182.6	0.008	BB	0.034	88.23	0.015
43	10.189	DCB	293.4211	17.417	662.1	0.028	BB	0.060	185.00	0.031
44	10.325		0.0000	0.000	841.2	0.036	BB	0.045	309.54	0.052
45	10.623		0.0000	0.000	576.5	0.024	BB	0.047	204.92	0.034
46	10.684		0.0000	0.000	839.7	0.036	BB	0.034	414.58	0.069
47	10.753		0.0000	0.000	410.0	0.017	BB	0.029	237.07	0.040
48	11.036		0.0000	0.000	867.1	0.037	BB	0.046	314.56	0.053
49	11.126		0.0000	0.000	809.9	0.034	BB	0.029	459.24	0.077
50	11.405		0.0000	0.000	193.4	0.008	BB	0.033	97.31	0.016
51	11.536		0.0000	0.000	430.9	0.018	BB	0.040	181.69	0.030
52	12.092		0.0000	0.000	1515.2	0.064	BB	0.150	168.61	0.028
53	12.228		0.0000	0.000	3239.6	0.137	BB	0.043	1249.53	0.209
54	12.649		0.0000	0.000	1541.4	0.065	BB	0.154	166.47	0.028

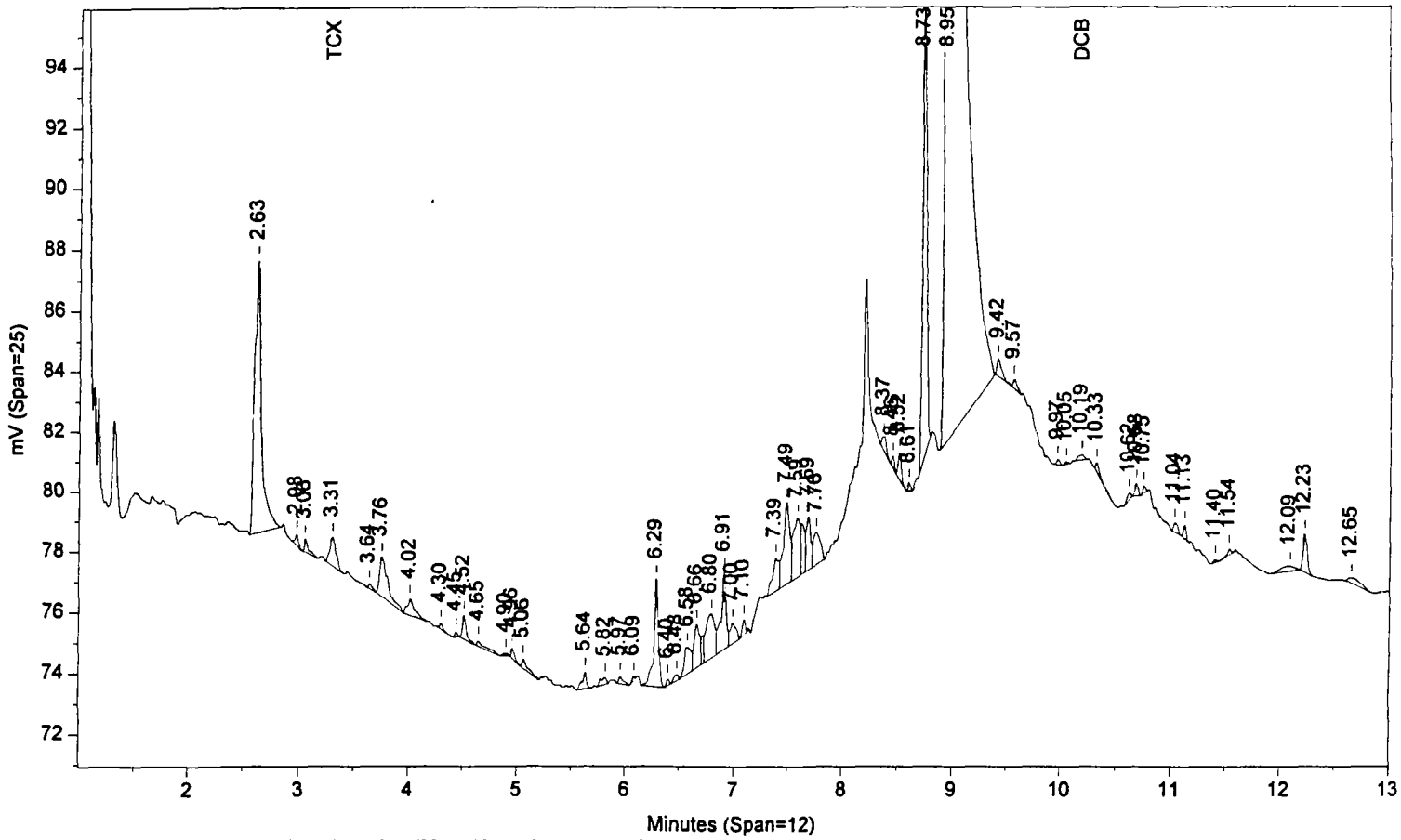
Total Area = 2365139.0, Total Amount = 1684.722, Total Height = 599025.3, Sample Units = ug/l

Sample Name: **3001162T DF500 ABWESTS T 982650008A 00173**
Acquired from CP03--H4783B via port 2 on 9/24/98 10:42:19pm by 883
RTX-CLPII 30MX.32MMX0.25UM
140C TO 300C AT 15C/MIN
Data File: **C:\CPWIN\DATA1\4P3259B.10R**
Method File: C:\CPWIN\DATA1\PESTWDB.MET
Calibration File: C:\CPWIN\DATA1\1P3259B.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	0.055		0.0000	0.000	775.4	0.014	BB	0.023	571.69	0.054
2	2.485		0.0000	0.000	24033.5	0.438	BB	0.037	10730.35	1.022
3	2.551		0.0000	0.000	14334.3	0.261	BB	0.028	8619.70	0.821
4	2.923		0.0000	0.000	1096.3	0.020	BB	0.030	618.26	0.059
5	3.003		0.0000	0.000	3437.9	0.063	BB	0.029	1950.33	0.186
6	3.065		0.0000	0.000	2054.8	0.037	BB	0.029	1180.47	0.112
7	3.361		0.0000	0.000	1365.4	0.025	BB	0.027	829.00	0.079
8	3.665		0.0000	0.000	5049.1	0.092	BB	0.040	2101.73	0.200
9	3.887		0.0000	0.000	1396.0	0.025	BB	0.033	702.60	0.067
10	3.961		0.0000	0.000	3306.0	0.060	BB	0.047	1179.26	0.112
11	4.195		0.0000	0.000	3721.1	0.068	BB	0.041	1514.19	0.144
12	4.702		0.0000	0.000	1830.4	0.033	BB	0.039	784.60	0.075
13	4.813		0.0000	0.000	892.7	0.016	BB	0.025	590.63	0.056
14	5.585		0.0000	0.000	1092.3	0.020	BB	0.028	646.75	0.062
15	5.986		0.0000	0.000	17283.6	0.315	BV	0.039	7386.91	0.704
16	6.079		0.0000	0.000	1537.1	0.028	VB	0.038	668.82	0.064
17	6.147		0.0000	0.000	694.3	0.013	BB	0.022	536.24	0.051
18	6.240		0.0000	0.000	693.4	0.013	BV	0.033	353.87	0.034
19	6.296		0.0000	0.000	2146.8	0.039	VB	0.038	940.65	0.090
20	6.388		0.0000	0.000	1510.9	0.028	BB	0.026	972.10	0.093
21	6.532		0.0000	0.000	9477.4	0.173	BB	0.042	3767.78	0.359
22	6.752		0.0000	0.000	2951.4	0.054	BB	0.045	1104.73	0.105
23	6.863		0.0000	0.000	2355.1	0.043	BB	0.047	843.19	0.080
24	7.086		0.0000	0.000	1234.0	0.022	BB	0.040	509.95	0.049
25	7.308		0.0000	0.000	3755.8	0.068	BV	0.050	1247.86	0.119
26	7.370		0.0000	0.000	3337.7	0.061	VV	0.046	1213.78	0.116
27	7.506		0.0000	0.000	17144.1	0.313	VV	0.100	2869.70	0.273
28	7.586		0.0000	0.000	14383.9	0.262	VV	0.054	4417.75	0.421
29	7.685		0.0000	0.000	23183.7	0.423	VV	0.077	4988.17	0.475
30	7.753		0.0000	0.000	27929.6	0.509	VV	0.071	6588.67	0.628
31	7.826		0.0000	0.000	17268.1	0.315	VV	0.060	4791.45	0.456
32	7.901		0.0000	0.000	16861.3	0.307	VV	0.066	4266.81	0.406
33	7.999		0.0000	0.000	11282.9	0.206	VB	0.079	2395.19	0.228
34	8.426		0.0000	0.000	11408.5	0.208	BV	0.066	2901.15	0.276
35	8.508		0.0000	0.000	37327.6	0.680	VB	0.056	11032.50	1.051
36	8.839		0.0000	0.000	5146.4	0.094	BB	0.048	1791.81	0.171
37	9.004		0.0000	0.000	98292.5	1.792	BV	0.060	27286.68	2.599
38	9.185		0.0000	0.000	11187.7	0.204	VV	0.051	3665.40	0.349
39	9.245		0.0000	0.000	4972497.0	90.645	SBB	0.091	912971.50	86.961
40	9.772		0.0000	0.000	7855.1	0.143	TVV	0.097	1352.58	0.129
41	9.870		0.0000	0.000	34285.0	0.625	TVB	0.277	2059.42	0.196
42	10.470		0.0000	0.000	1033.7	0.019	BB	0.078	219.78	0.021
43	10.772		0.0000	0.000	63630.2	1.160	BB	0.307	3449.19	0.329
44	11.205	DCB	771.7396	100.000	2265.0	0.041	BB	0.046	815.52	0.078
45	11.662		0.0000	0.000	1325.3	0.024	BB	0.051	433.88	0.041

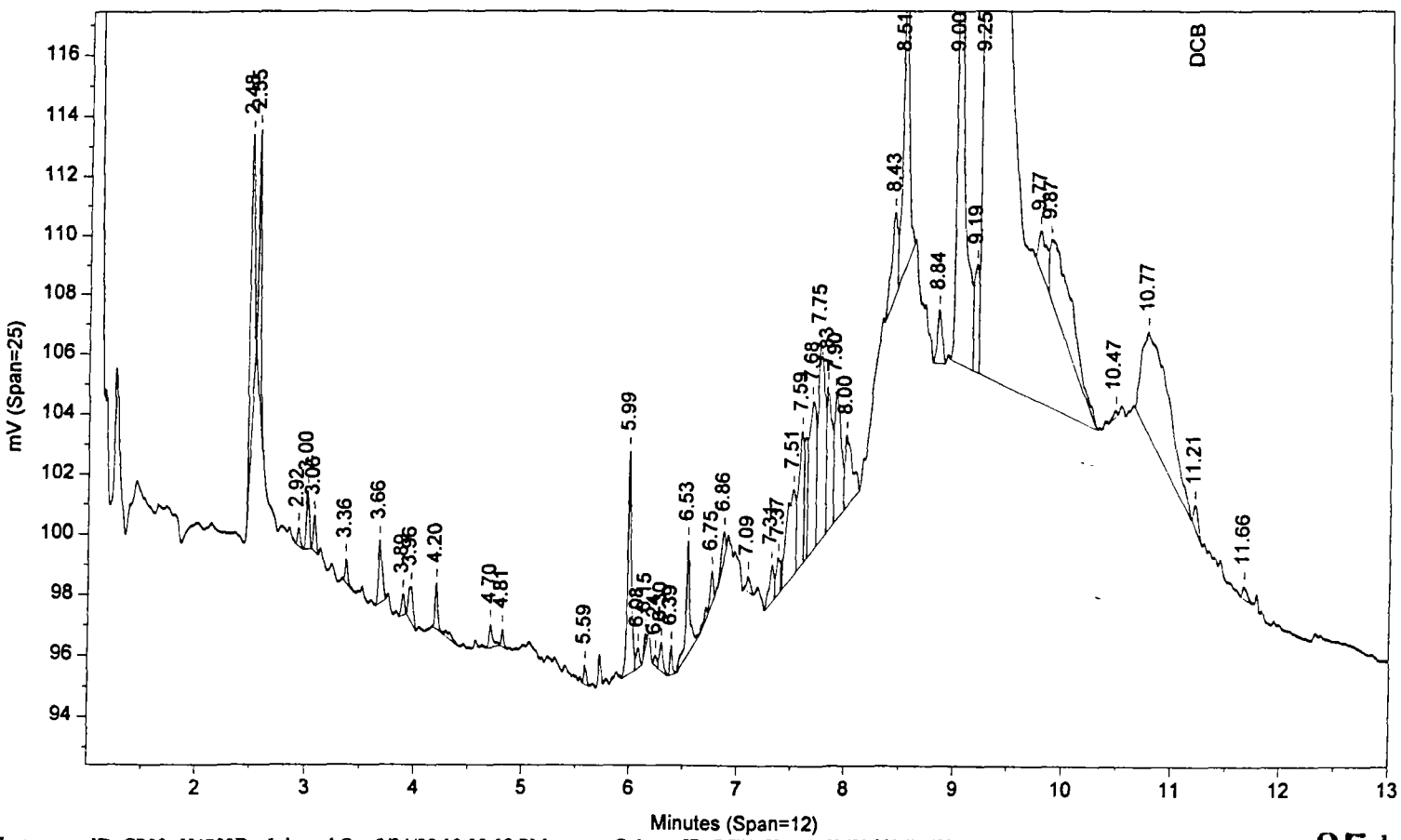
Total Area = 5485670.0, Total Amount = 771.74, Total Height = 1049863.0, Sample Units = ug/l

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\4P3259.10R



Instrument ID: CP03--H4783A Injected On: 9/24/98 10:29:19 PM Column ID: RTX-CLP 30MX0.32MMX0.25UM %TCX SSR= 346.0948
%DCB SSR= 73.17234

File: C:\CPWIN\DATA1\4P3259B.10R



Instrument ID: CP03--H4783B Injected On: 9/24/98 10:29:19 PM Column ID: RTX-CLPII 30MX.32MMX0.25UM %TCX SSR= 0
%DCB SSR= 192.4538

Oven Parameters: 140C TO 300C AT 15C/MIN

Volume Inj: 1

Detector A Parameters:
Threshold: 2 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 3 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 250 Dilution Factor: 5000
Analyst: 883

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.309	947	5.565	TCX	.	0	.	TCX
0.189	185	1.174	DCB	11.205	816	3.087	DCB

Files:
Area File: C:\CPWIN\DATA1\4P3259.10A
Area File: C:\CPWIN\DATA1\4P3259B.10A
Method A: C:\CPWIN\DATA1\PESTWD.MET
Method B: C:\CPWIN\DATA1\PESTWDB.MET
Calibration File A: C:\CPWIN\DATA1\1P3259.CAL
Calibration File B: C:\CPWIN\DATA1\1P3259B.CAL
Format A: C:\CPWIN\DATA1\PESTWD.FMTA
Format B: C:\CPWIN\DATA1\PESTWD.FMTB
Area File Created On: 9/24/98 10:42:24 PM
File Reported On: 9/24/98 at 10:42:31 PM

Lancaster Laboratories Multiple Component Pesticide Data Summary

Sample Name: 3001163 T DF500 SOUTS **Sample ID:** AB **Batchnumber:** 982650008A
Sample Amount: 250 ml Total Volume: 5000 ml Analyst: 883 SDG: State: OH
Analyses: 00173

Analysis Report (A)

Injected on : SEP 24, 1998 22:49:23
Instrument : CP03--H4783A
Result file : 4P3259.11R
Calibration file : 1P3259.CAL
Method file : PESTWD.MET

%SSR(TCX) : *353.6%
%SSR(DCB) : *219.1%

Analysis Report (B)

Injected on : SEP 24, 1998 22:49:23
Instrument : CP03--H4783B
Result file : 4P3259B.11R
Calibration file : 1P3259B.CAL
Method file : PESTWDB.MET

55. DO.

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016				**110.259037**	**4**	**27.65**	
3.70	3.75	3.77	460.1	145.87018			1
4.42	4.45	4.49	206.2	123.25068			3
4.92	4.96	4.99	410.4	95.18257			5
5.45	5.46	5.51	347.0	76.73277			6
Aroclor-1221				**104.799578**	**1**		
3.71	3.75	3.78	460.1	104.79959			3
Aroclor-1232				**187.341292**	**3**	**32.27**	
3.71	3.75	3.78	460.1	122.56242			2
4.93	4.96	5.00	410.4	242.27617			5
5.46	5.46	5.53	347.0	197.18536			6
Aroclor-1242				**90.997059**	**3**	**38.26**	
3.73	3.75	3.80	460.1	54.96930			1
4.93	4.96	5.00	410.4	124.46224			5
5.46	5.46	5.52	347.0	93.55969			6
Aroclor-1248				**199.391737**	**5**	**119.42**	
5.45	5.46	5.52	347.0	55.13367			1
5.87	5.90	5.94	209.9	73.54756			2
6.60	6.66	6.67	188.7	85.29747			3
6.75	6.78	6.82	603.1	164.20750			4
7.44	7.49	7.51	1233.9	618.77258			6
Aroclor-1254				**61.693756**	**4**	**32.69**	
6.25	6.26	6.32	504.1	78.43482			2
6.61	6.66	6.68	188.7	32.87532			3
6.76	6.78	6.82	603.1	63.43959			4
7.33	7.38	7.40	409.1	72.02532			6
Aroclor-1260				**74.431454**	**5**	**83.51**	
6.98	7.02	7.05	192.3	23.01575			1
7.32	7.38	7.39	409.1	40.67543			2
7.67	7.71	7.74	838.6	81.07058			3
7.87	7.90	7.94	172.6	48.33214			4
8.49	8.52	8.56	2384.1	179.06343			6

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016				**168.457057**	**2**	**62.45**	
4.14	4.20	4.21	1600.7	242.84512			1
4.68	4.70	4.75	980.9	94.06903			2
Aroclor-1221				**163.407014**	**2**	**19.49**	
3.88	3.89	3.95	581.3	140.88853			1
4.15	4.20	4.22	1600.7	185.92554			3
Aroclor-1232				**205.116062**	**3**	**18.35**	
4.15	4.20	4.22	1600.7	215.87800			1
4.69	4.70	4.76	980.9	236.21086			2
5.47	5.50	5.54	669.6	163.25937			4
Aroclor-1242				**121.814914**	**1**		
4.69	4.70	4.76	980.9	121.81493			2
Aroclor-1254				**85.921797**	**4**	**63.54**	
6.85	6.88	6.92	509.7	36.54674			2
7.44	7.46	7.50	1436.7	76.48673			4
7.72	7.75	7.79	2355.5	163.72427			5
7.94	7.97	8.01	665.3	66.92946			6
Aroclor-1260				**98.605095**	**3**	**71.88**	
7.93	7.97	8.00	665.3	35.39730			3
8.38	8.43	8.45	1513.8	85.18485			4
8.56	8.62	8.63	1138.1	175.23318			5

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			<1000			4	25	~~267~~ 236
Aroclor-1221			<1000			3	5	
Aroclor-1232			<1000			4	10	
Aroclor-1242			<1000			4	30	
Aroclor-1248			<1000			4	30	
Aroclor-1254			<1000			4	40	
Aroclor-1260			<1000			4	40	

Reviewed by: RW A SH Date: 9/25/98
Verified by: Date: 9/25/98

DF performed due to matrix

%Difference = High - Low Amount divided by the Average times 100
*Peak found within more than one window
+Duplicate Peak in window - not included in average

Printed on: 9/25/98 07:37:46

Sample Name: **3001163T DF500 ABSOUTS T 982650008A 00173**
Acquired from CP03--H4783A via port 1 on 9/24/98 11:02:23pm by 883
RTX-CLP 30MX0.32MMX0.25UM
140C TO 300C AT 15C/MIN
Data File: **C:\CPWIN\DATA1\4P3259.11R**
Method File: C:\CPWIN\DATA1\PESTWD.MET
Calibration File: C:\CPWIN\DATA1\1P3259.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	2.627		0.0000	0.000	36683.3	1.696	BB	0.070	8777.05	1.530
2	2.975		0.0000	0.000	804.1	0.037	BB	0.029	466.26	0.081
3	3.059		0.0000	0.000	544.5	0.025	BB	0.031	292.37	0.051
4	3.106		0.0000	0.000	1062.2	0.049	BB	0.050	357.56	0.062
5	3.217		0.0000	0.000	249.4	0.012	BB	0.032	131.38	0.023
6	3.308	TCX	1418.6680	61.752	3678.9	0.170	BB	0.063	965.73	0.168
7	3.433		0.0000	0.000	1374.5	0.064	BB	0.035	656.36	0.114
8	3.649		0.0000	0.000	442.1	0.020	BB	0.048	154.52	0.027
9	3.746		0.0000	0.000	652.1	0.030	BB	0.024	460.15	0.080
10	3.926		0.0000	0.000	313.0	0.014	BB	0.031	167.87	0.029
11	4.445		0.0000	0.000	379.1	0.018	BB	0.031	206.24	0.036
12	4.518		0.0000	0.000	1643.9	0.076	BB	0.038	724.18	0.126
13	4.907		0.0000	0.000	617.0	0.029	BB	0.038	271.57	0.047
14	4.964		0.0000	0.000	711.9	0.033	BB	0.029	410.42	0.072
15	5.066		0.0000	0.000	366.8	0.017	BB	0.028	220.21	0.038
16	5.464		0.0000	0.000	949.1	0.044	BB	0.046	346.98	0.060
17	5.637		0.0000	0.000	2430.3	0.112	BB	0.044	917.34	0.160
18	5.810		0.0000	0.000	688.4	0.032	BB	0.044	262.65	0.046
19	5.903		0.0000	0.000	443.6	0.021	BB	0.035	209.94	0.037
20	6.262		0.0000	0.000	1975.5	0.091	BB	0.065	504.09	0.088
21	6.328		0.0000	0.000	731.2	0.034	BB	0.031	398.17	0.069
22	6.655		0.0000	0.000	1212.3	0.056	BV	0.107	188.66	0.033
23	6.781		0.0000	0.000	1534.4	0.071	VV	0.042	603.09	0.105
24	6.915		0.0000	0.000	3423.9	0.158	VB	0.036	1575.69	0.275
25	7.020		0.0000	0.000	419.7	0.019	BB	0.036	192.34	0.034
26	7.378		0.0000	0.000	1315.3	0.061	BV	0.054	409.06	0.071
27	7.489		0.0000	0.000	3605.6	0.167	VV	0.049	1233.87	0.215
28	7.597		0.0000	0.000	4010.1	0.185	VV	0.052	1291.98	0.225
29	7.651		0.0000	0.000	2769.2	0.128	VV	0.046	992.76	0.173
30	7.708		0.0000	0.000	1823.0	0.084	VV	0.036	838.58	0.146
31	7.810		0.0000	0.000	1928.4	0.089	VB	0.054	597.69	0.104
32	7.895		0.0000	0.000	321.7	0.015	BB	0.031	172.65	0.030
33	8.063		0.0000	0.000	2673.8	0.124	BB	0.064	692.85	0.121
34	8.375		0.0000	0.000	1417.1	0.066	BV	0.059	401.07	0.070
35	8.422		0.0000	0.000	1002.7	0.046	VB	0.035	471.97	0.082
36	8.534		0.0000	0.000	8222.0	0.380	BV	0.057	2384.07	0.415
37	8.611		0.0000	0.000	3049.1	0.141	VV	0.053	952.78	0.166
38	8.731		0.0000	0.000	35420.1	1.638	VB	0.045	13248.06	2.309
39	8.948		0.0000	0.000	2018269.0	93.318	BB	0.064	525446.30	91.575
40	9.349		0.0000	0.000	1380.4	0.064	BB	0.032	729.70	0.127
41	9.416		0.0000	0.000	255.9	0.012	BB	0.022	192.62	0.034
42	9.470		0.0000	0.000	383.5	0.018	BB	0.038	170.42	0.030
43	9.593		0.0000	0.000	653.1	0.030	BB	0.038	288.15	0.050
44	9.656		0.0000	0.000	2595.5	0.120	BB	0.031	1414.28	0.246
45	9.721		0.0000	0.000	614.2	0.028	BB	0.035	293.69	0.051
46	9.828		0.0000	0.000	533.4	0.025	BB	0.035	255.33	0.044
47	9.898		0.0000	0.000	569.4	0.026	BB	0.038	252.08	0.044
48	10.013		0.0000	0.000	904.8	0.042	BB	0.039	390.21	0.068
49	10.098		0.0000	0.000	1219.2	0.056	BB	0.055	370.91	0.065
50	10.331	DCB	878.7020	38.248	2986.9	0.138	BB	0.090	554.01	0.097
51	10.751		0.0000	0.000	260.9	0.012	BB	0.037	116.72	0.020
52	12.179		0.0000	0.000	1280.4	0.059	BB	0.128	166.47	0.029

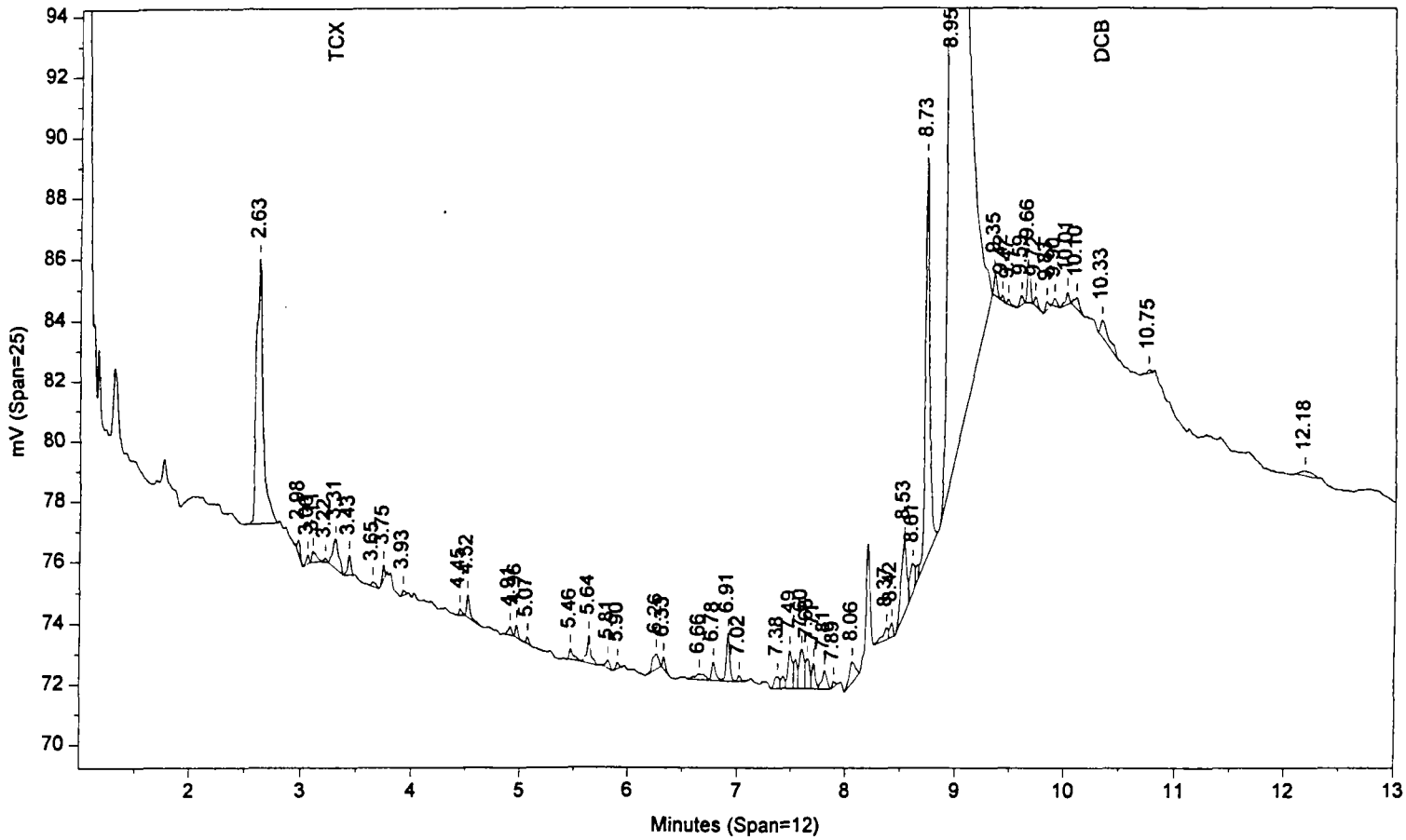
Total Area = 2162797.0, Total Amount = 2297.37, Total Height = 573789.0, Sample Units = ug/l

Sample Name: **3001163T DF500 ABSOUTS T 982650008A 00173**
Acquired from CP03--H4783B via port 2 on 9/24/98 11:02:23pm by 883
RTX-CLPII 30MX.32MMX0.25UM
140C TO 300C AT 15C/MIN
Data File: **C:\CPWIN\DATA1\4P3259B.11R**
Method File: C:\CPWIN\DATA1\PESTWDB.MET
Calibration File: C:\CPWIN\DATA1\1P3259B.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	2.485		0.0000	0.000	25658.8	0.510	BB	0.038	11392.57	1.117
2	2.551		0.0000	0.000	14083.8	0.280	BB	0.028	8335.62	0.817
3	3.010		0.0000	0.000	3164.8	0.063	BB	0.032	1664.43	0.163
4	3.071		0.0000	0.000	4186.1	0.083	BB	0.030	2304.61	0.226
5	3.238		0.0000	0.000	1835.2	0.036	BB	0.039	777.61	0.076
6	3.362		0.0000	0.000	3544.7	0.070	BB	0.044	1339.74	0.131
7	3.695		0.0000	0.000	1496.1	0.030	BB	0.057	436.34	0.043
8	3.887		0.0000	0.000	1111.3	0.022	BB	0.032	581.27	0.057
9	3.961		0.0000	0.000	3665.3	0.073	BB	0.059	1038.65	0.102
10	4.195		0.0000	0.000	2990.7	0.059	BB	0.031	1600.74	0.157
11	4.288		0.0000	0.000	1559.4	0.031	BB	0.064	406.60	0.040
12	4.460		0.0000	0.000	777.1	0.015	BB	0.033	387.52	0.038
13	4.701		0.0000	0.000	2030.2	0.040	BB	0.034	980.89	0.096
14	4.812		0.0000	0.000	955.7	0.019	BB	0.028	566.14	0.056
15	5.232		0.0000	0.000	718.3	0.014	BB	0.029	406.50	0.040
16	5.504		0.0000	0.000	1184.6	0.024	BB	0.029	669.62	0.066
17	6.171		0.0000	0.000	2518.1	0.050	BB	0.054	773.88	0.076
18	6.300		0.0000	0.000	1160.6	0.023	BV	0.031	626.28	0.061
19	6.362		0.0000	0.000	1493.8	0.030	VV	0.057	439.14	0.043
20	6.533		0.0000	0.000	10154.7	0.202	VB	0.054	3141.28	0.308
21	6.751		0.0000	0.000	3387.4	0.067	BV	0.052	1094.33	0.107
22	6.881		0.0000	0.000	1082.7	0.022	VB	0.035	509.71	0.050
23	7.159		0.0000	0.000	3175.0	0.063	BV	0.051	1035.30	0.101
24	7.257		0.0000	0.000	8429.9	0.167	VV	0.068	2066.46	0.203
25	7.374		0.0000	0.000	5064.9	0.101	VV	0.040	2089.70	0.205
26	7.461		0.0000	0.000	4422.7	0.088	VB	0.051	1436.71	0.141
27	7.566		0.0000	0.000	1277.7	0.025	BB	0.026	812.33	0.080
28	7.751		0.0000	0.000	9405.0	0.187	BV	0.067	2355.46	0.231
29	7.875		0.0000	0.000	1901.3	0.038	VV	0.057	553.09	0.054
30	7.968		0.0000	0.000	1967.8	0.039	VB	0.049	665.31	0.065
31	8.184		0.0000	0.000	858.5	0.017	BB	0.045	316.84	0.031
32	8.252		0.0000	0.000	2548.3	0.051	BB	0.038	1132.22	0.111
33	8.431		0.0000	0.000	5744.7	0.114	BV	0.063	1513.77	0.148
34	8.509		0.0000	0.000	19755.8	0.393	VV	0.047	6960.17	0.682
35	8.616		0.0000	0.000	3234.5	0.064	VB	0.047	1138.11	0.112
36	8.771		0.0000	0.000	2575.8	0.051	BB	0.057	749.04	0.073
37	8.913		0.0000	0.000	11778.2	0.234	BB	0.097	2020.22	0.198
38	9.004		0.0000	0.000	68292.9	1.357	BV	0.049	23401.00	2.294
39	9.135		0.0000	0.000	4562.0	0.091	VV	0.063	1207.53	0.118
40	9.246		0.0000	0.000	4691284.0	93.207	VV	0.086	908980.10	89.112
41	9.679		0.0000	0.000	35222.2	0.700	VV	0.071	8215.54	0.805
42	9.753		0.0000	0.000	23561.3	0.468	VV	0.088	4473.50	0.439
43	9.889		0.0000	0.000	7961.8	0.158	VB	0.063	2109.32	0.207
44	10.198		0.0000	0.000	11641.1	0.231	BV	0.095	2039.56	0.200
45	10.390		0.0000	0.000	16766.3	0.333	VB	0.074	3796.27	0.372
46	10.711		0.0000	0.000	571.7	0.011	BB	0.027	358.54	0.035
47	10.809		0.0000	0.000	2400.5	0.048	BB	0.035	1147.30	0.112

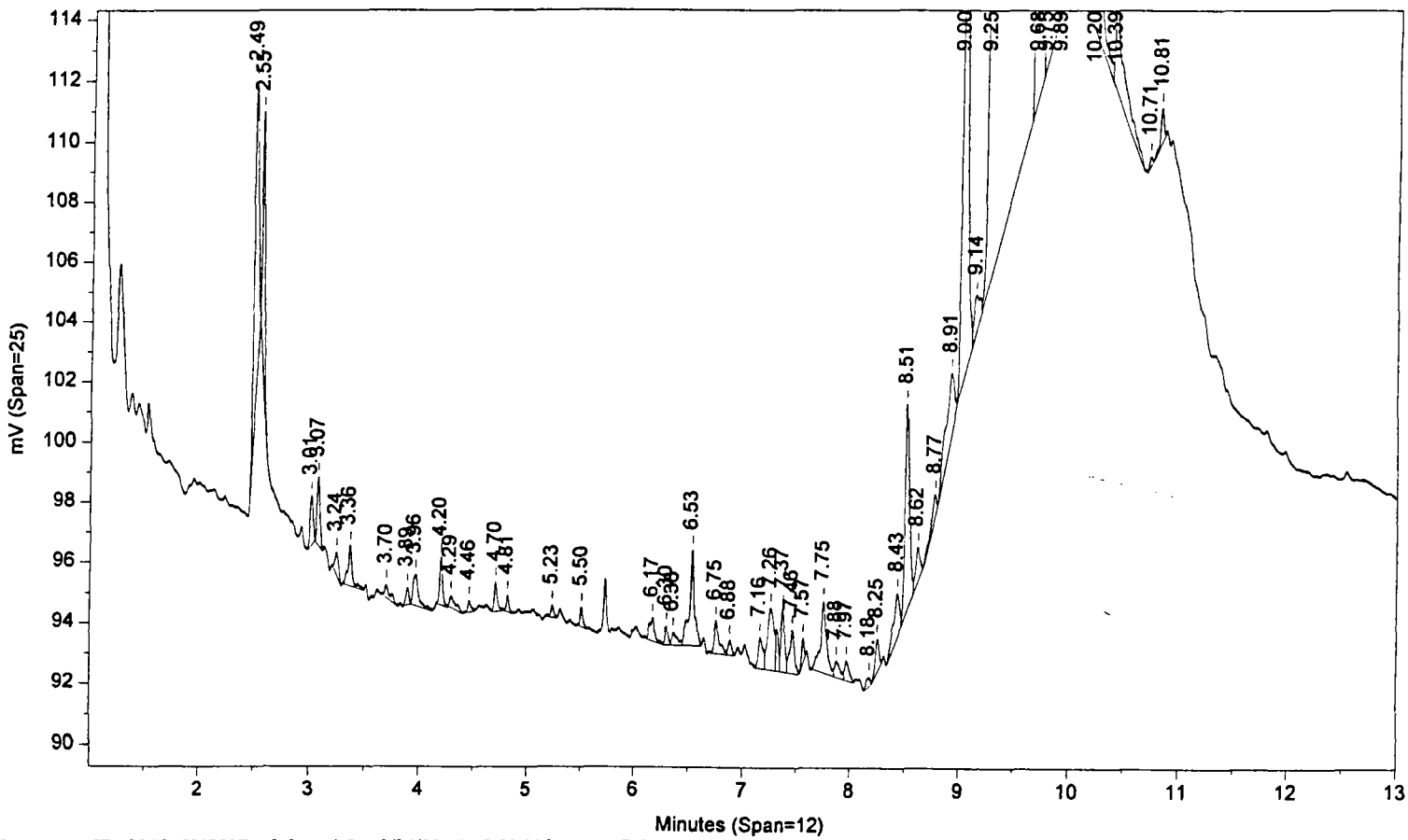
Total Area = 5033163.0, Total Amount = 0.0, Total Height = 1020047.0, Sample Units = ug/l

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\4P3259.11R



Instrument ID: CP03--H4783A Injected On: 9/24/98 10:49:23 PM Column ID: RTX-CLP 30MX0.32MMX0.25UM %TCX SSR= 352.9026
%DCB SSR= 219.1277

File: C:\CPWIN\DATA1\4P3259B.11R



Instrument ID: CP03--H4783B Injected On: 9/24/98 10:49:23 PM Column ID: RTX-CLPII 30MX.32MMX0.25UM %TCX SSR= 0
%DCB SSR= 0

Oven Parameters: 140C TO 300C AT 15C/MIN

Volume Inj: 1

Detector A Parameters:
Threshold: 2 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 3 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 250
Analyst: 883

Dilution Factor: 5000

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.308	966	5.675	TCX	.	0	.	TCX
0.331	554	3.515	DCB	.	0	.	DCB

Files:
Area File: C:\CPWIN\DATA1\4P3259.11A
Area File: C:\CPWIN\DATA1\4P3259B.11A
Method A: C:\CPWIN\DATA1\PESTWD.MET
Method B: C:\CPWIN\DATA1\PESTWDB.MET
Calibration File A: C:\CPWIN\DATA1\1P3259.CAL
Calibration File B: C:\CPWIN\DATA1\1P3259B.CAL
Format A: C:\CPWIN\DATA1\PESTWD.FMTA
Format B: C:\CPWIN\DATA1\PESTWD.FMTB
Area File Created On: 9/24/98 11:02:28 PM
File Reported On: 9/24/98 at 11:02:37 PM

Raw QC Data

Lancaster Laboratories Multiple Component Pesticide Data Summary

Sample Name: BLANKA 9/22/98 PBLKPY Sample ID: AA **Batchnumber: 982650008A**
Sample Amount: 1000 ml Total Volume: 10 ml Analyst: 883 SDG: State:
Analyses: 00173 06030

Analysis Report (A)

Injected on : SEP 23, 1998 18:07:02
Instrument : CP03--H4783A
Result file : 3P3259.66R
Calibration file : 1P3259.CAL
Method file : PESTWD.MET
%SSR(TCX) : 77.5%
%SSR(DCB) : 66.1%

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016				**0.300849**	**1**		
3.70	3.76	3.77	1898.1	0.30085			1
Aroclor-1221				**0.216143**	**1**		
3.71	3.76	3.78	1898.1	0.21614			3
Aroclor-1232				**0.252778**	**1**		
3.71	3.76	3.78	1898.1	0.25278			2
Aroclor-1242				**0.096900**	**2**	**24.04**	
3.73	3.76	3.80	1898.1	0.11337			1
4.60	4.62	4.67	298.8	0.08043			3
Aroclor-1248				**0.062878**	**1**		
7.44	7.51	7.51	250.8	0.06288			6
Aroclor-1254				**0.033453**	**2**	**45.22**	
6.25	6.29	6.32	567.5	0.04415			2
7.33	7.35	7.40	258.5	0.02276			6
Aroclor-1260				**0.012851**	**5**	**16.02**	
6.98	7.01	7.05	166.7	0.00997			1
7.32	7.35	7.39	258.5	0.01285			2
7.67	7.70	7.74	275.0	0.01329			3
8.12	8.16	8.19	140.4	0.01241			5
8.49	8.52	8.56	418.9	0.01573			6

Analysis Report (B)

Injected on : SEP 23, 1998 18:07:02
Instrument : CP03--H4783B
Result file : 3P3259B.66R
Calibration file : 1P3259B.CAL
Method file : PESTWDB.MET
%SSR(TCX) : 79.9%
%SSR(DCB) : 69.4%

Min	R.T.	Max	Height	Amount	Pks	%RSD	Peak
Aroclor-1016				**0.086835**	**1**		
4.14	4.15	4.21	1144.8	0.08683			1
Aroclor-1221				**0.385911**	**1**		
3.99	4.01	4.06	2917.4	0.38591			2
Aroclor-1242				**0.098067**	**1**		
3.99	4.01	4.06	2917.4	0.09807			1
Aroclor-1254				**0.025541**	**1**		
7.94	7.96	8.01	507.8	0.02554			6
Aroclor-1260				**0.012725**	**2**	**8.71**	
7.93	7.96	8.00	507.8	0.01351			3
9.17	9.20	9.24	575.9	0.01194			6

Summary Report

Compound Name	Column	Higher Amount Found	LOQ	Qualifiers	%Difference	No of Hits Required	Max %RSD	Comments
Aroclor-1016			<0.5			4	25	
Aroclor-1221			<0.5			3	5	
Aroclor-1232			<0.5			4	10	
Aroclor-1242			<0.5			4	30	
Aroclor-1248			<0.5			4	30	
Aroclor-1254			<0.5			4	40	
Aroclor-1260			<0.5			4	40	

Reviewed by: RCJ DSU Date: 9/24/98
Verified by: Date: 9/25/98

%Difference = High - Low Amount divided by the Average times 100
*Peak found within more than one window
+Duplicate Peak in window - not included in average
Printed on: 9/23/98 19:54:22

Sample Name: **BLANKA 9/22/98 AAPBLKPY BLK 982650008A 00173**
Acquired from CP03--H4783A via port 1 on 9/23/98 06:20:02pm by 883
RTX-CLP 30MX0.32MMX0.25UM
140C TO 300C AT 15C/MIN
Data File: **C:\CPWIN\DATA1\3P3259.66R**
Method File: C:\CPWIN\DATA1\PESTWD.MET
Calibration File: C:\CPWIN\DATA1\1P3259.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	2.626		0.0000	0.000	1193.1	0.281	BB	0.035	573.91	0.284
2	2.725		0.0000	0.000	742.8	0.175	BB	0.036	342.63	0.169
3	2.842		0.0000	0.000	886.8	0.209	BB	0.047	317.68	0.157
4	3.058		0.0000	0.000	596.6	0.140	BB	0.028	356.71	0.176
5	3.262	TCX	310.9724	53.975	214355.2	50.432	BB	0.034	105843.60	52.288
6	3.759		0.0000	0.000	3830.1	0.901	BB	0.034	1898.06	0.938
7	4.620		0.0000	0.000	526.6	0.124	BB	0.029	298.84	0.148
8	5.198		0.0000	0.000	4410.9	1.038	BB	0.033	2214.54	1.094
9	6.292		0.0000	0.000	1474.4	0.347	BV	0.043	567.49	0.280
10	6.555		0.0000	0.000	297.9	0.070	VB	0.027	182.30	0.090
11	6.911		0.0000	0.000	1833.1	0.431	BB	0.034	900.34	0.445
12	7.012		0.0000	0.000	285.8	0.067	BB	0.029	166.73	0.082
13	7.351		0.0000	0.000	780.0	0.184	BV	0.050	258.47	0.128
14	7.507		0.0000	0.000	1549.5	0.365	VB	0.103	250.76	0.124
15	7.704		0.0000	0.000	855.6	0.201	BB	0.052	275.01	0.136
16	7.847		0.0000	0.000	201.5	0.047	BB	0.028	118.14	0.058
17	8.074		0.0000	0.000	277.7	0.065	BB	0.041	114.00	0.056
18	8.156		0.0000	0.000	235.0	0.055	BB	0.028	140.39	0.069
19	8.528		0.0000	0.000	1545.7	0.364	BV	0.062	418.86	0.207
20	8.630		0.0000	0.000	746.9	0.176	VV	0.054	229.56	0.113
21	8.744		0.0000	0.000	1478.7	0.348	VV	0.092	269.05	0.133
22	8.811		0.0000	0.000	744.5	0.175	VV	0.044	281.38	0.139
23	8.885		0.0000	0.000	173.0	0.041	VB	0.026	111.06	0.055
24	9.059		0.0000	0.000	714.7	0.168	BB	0.134	88.98	0.044
25	9.139		0.0000	0.000	278.9	0.066	BB	0.032	145.58	0.072
26	9.226		0.0000	0.000	204.2	0.048	BB	0.031	108.93	0.054
27	9.332		0.0000	0.000	245.5	0.058	BB	0.038	107.39	0.053
28	9.472		0.0000	0.000	1604.0	0.377	BB	0.106	251.31	0.124
29	9.651		0.0000	0.000	328.6	0.077	BB	0.039	139.66	0.069
30	9.874		0.0000	0.000	224.5	0.053	BB	0.063	59.79	0.030
31	10.005		0.0000	0.000	850.7	0.200	BB	0.033	424.73	0.210
32	10.158		0.0000	0.000	943.3	0.222	BB	0.099	159.02	0.079
33	10.247	DCB	265.1656	46.025	176050.5	41.420	BB	0.035	83591.50	41.295
34	10.340		0.0000	0.000	1526.7	0.359	BB	0.052	487.79	0.241
35	10.740		0.0000	0.000	389.0	0.092	BB	0.051	127.31	0.063
36	11.228		0.0000	0.000	235.0	0.055	BB	0.053	73.79	0.036
37	11.425		0.0000	0.000	1396.9	0.329	BB	0.097	240.60	0.119
38	11.710		0.0000	0.000	691.0	0.163	BB	0.060	190.78	0.094
39	12.810		0.0000	0.000	337.6	0.079	BB	0.058	96.62	0.048

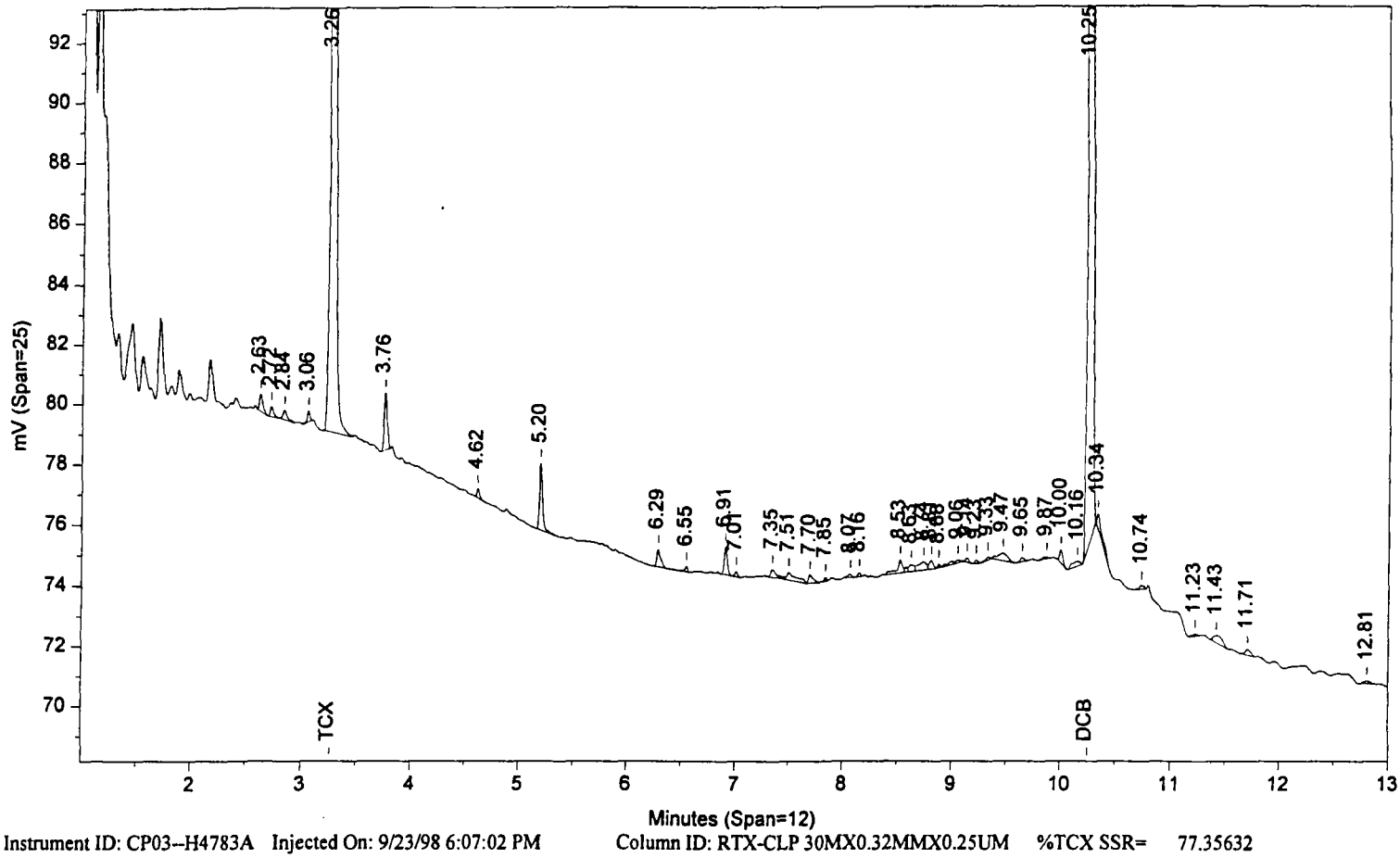
Total Area = 425042.1, Total Amount = 576.138, Total Height = 202423.3, Sample Units = ug/l

Sample Name: **BLANKA 9/22/98 AAPBLKPY BLK 982650008A 00173**
Acquired from CP03--H4783B via port 2 on 9/23/98 06:20:02pm by 883
RTX-CLPII 30MX.32MMX0.25UM
140C TO 300C AT 15C/MIN
Data File: **C:\CPWIN\DATA1\3P3259B.66R**
Method File: C:\CPWIN\DATA1\PESTWDB.MET
Calibration File: C:\CPWIN\DATA1\1P3259B.CAL

PK#	Ret Time	Name	Amount	Amount%	Area	Area%	Type	Width	Height	Height%
1	2.349		0.0000	0.000	1072.7	0.065	BB	0.029	623.13	0.135
2	2.461		0.0000	0.000	862.8	0.052	BB	0.031	464.12	0.101
3	2.548		0.0000	0.000	2399.7	0.146	BB	0.035	1128.26	0.245
4	2.956		0.0000	0.000	408.4	0.025	BB	0.020	341.26	0.074
5	2.993		0.0000	0.000	1412.4	0.086	BB	0.032	743.99	0.162
6	3.123		0.0000	0.000	1119.9	0.068	BB	0.034	552.00	0.120
7	3.222		0.0000	0.000	2105.4	0.128	BB	0.042	840.75	0.183
8	3.505	TCX	320.7552	53.532	394310.7	23.972	BB	0.033	202162.00	43.927
9	4.014		0.0000	0.000	5357.4	0.326	BB	0.031	2917.41	0.634
10	4.150		0.0000	0.000	1962.0	0.119	BB	0.029	1144.76	0.249
11	5.103		0.0000	0.000	1239.7	0.075	BB	0.030	680.92	0.148
12	5.981		0.0000	0.000	2613.3	0.159	BB	0.038	1157.64	0.252
13	6.383		0.0000	0.000	1584.3	0.096	BV	0.044	594.91	0.129
14	6.531		0.0000	0.000	5835.6	0.355	VB	0.048	2012.56	0.437
15	6.804		0.0000	0.000	11853.4	0.721	BB	0.029	6835.97	1.485
16	7.960		0.0000	0.000	1098.6	0.067	BB	0.036	507.77	0.110
17	8.066		0.0000	0.000	678.0	0.041	BV	0.039	289.46	0.063
18	8.177		0.0000	0.000	3880.7	0.236	VB	0.100	644.82	0.140
19	8.900		0.0000	0.000	1430.9	0.087	BB	0.039	613.69	0.133
20	9.203		0.0000	0.000	920.8	0.056	BB	0.027	575.90	0.125
21	9.556		0.0000	0.000	8069.4	0.491	BB	0.110	1217.47	0.265
22	9.927		0.0000	0.000	1402.9	0.085	BB	0.051	455.77	0.099
23	10.587		0.0000	0.000	512594.4	31.163	BV	0.161	53112.67	11.541
24	10.724		0.0000	0.000	302459.8	18.388	VV	0.154	32748.89	7.116
25	11.137	DCB	278.4283	46.468	361448.3	21.974	VB	0.041	147111.70	31.966
26	11.948		0.0000	0.000	16760.7	1.019	BB	0.377	741.86	0.161

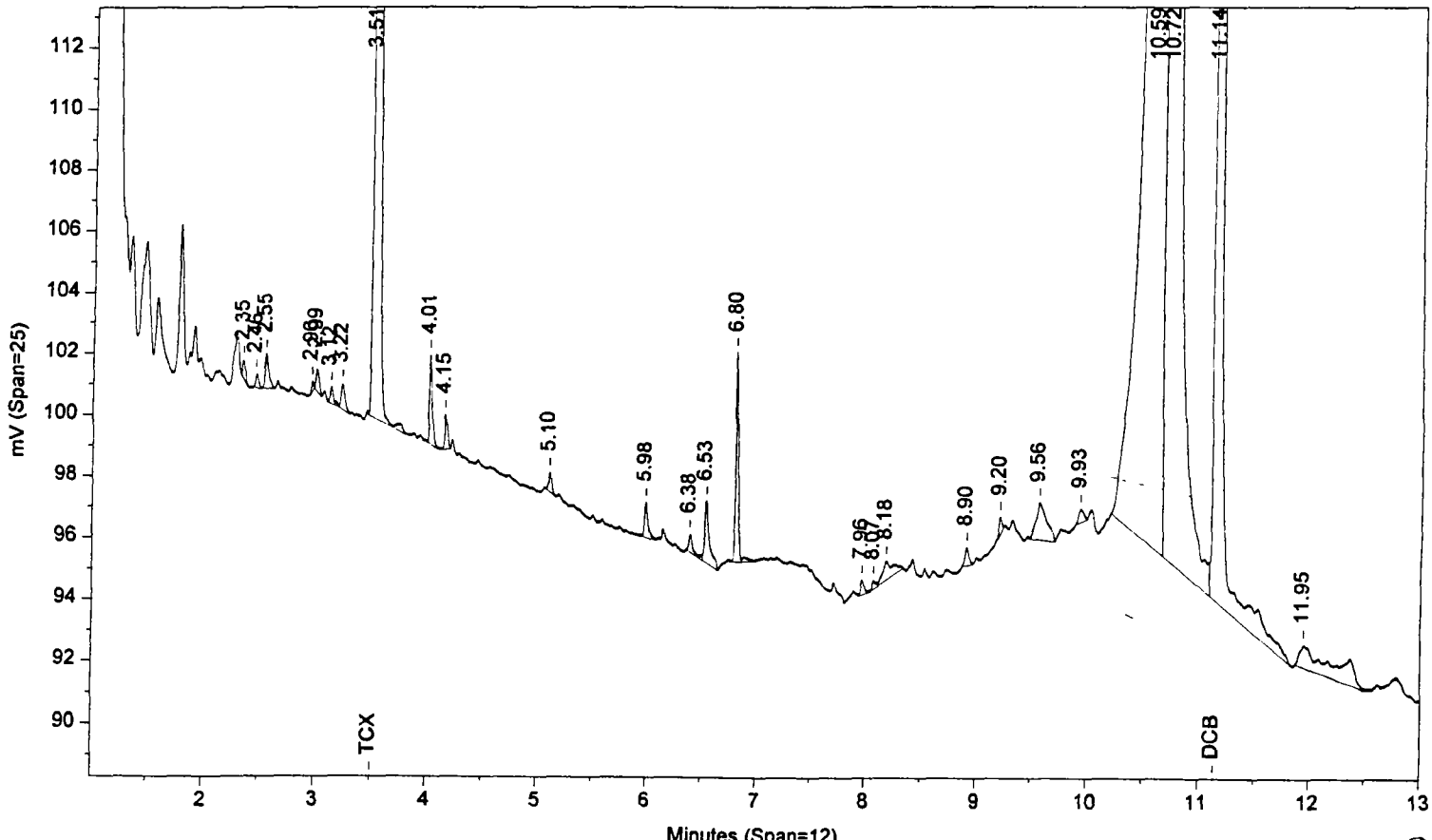
Total Area = 1644882.0, Total Amount = 599.183, Total Height = 460219.8, Sample Units = ug/l

LANCASTER LABORATORIES File: C:\CPWIN\DATA1\3P3259.66R



Instrument ID: CP03--H4783A Injected On: 9/23/98 6:07:02 PM Column ID: RTX-CLP 30MX0.32MMX0.25UM %TCX SSR= 77.35632
%DCB SSR= 66.12608

File: C:\CPWIN\DATA1\3P3259B.66R



Instrument ID: CP03--H4783B Injected On: 9/23/98 6:07:02 PM Column ID: RTX-CLPII 30MX.32MMX0.25UM %TCX SSR= 79.78983
%DCB SSR= 69.43349

Oven Parameters: 140C TO 300C AT 15C/MIN

Volume Inj: 1

Detector A Parameters:
Threshold: 2 Width: 0.02 Area Reject: 0
Calibration Type: External Quantitation: Height

Detector B Parameters:
Threshold: 3 Width: 0.02 Area Reject: 0
Calibration Type: External Quantiation: Height

Sample Weight: 1000 Dilution Factor: 10
Analyst: 883

RT A	Height A	Amount A	Compound A	RT B	Height B	Amount B	Compound B
3.262	105844	.311	TCX	3.505	202162	.321	TCX
0.247	83592	.265	DCB	11.137	147112	.278	DCB

Files:
Area File: C:\CPWIN\DATA1\3P3259.66A
Area File: C:\CPWIN\DATA1\3P3259B.66A
Method A: C:\CPWIN\DATA1\PESTWD.MET
Method B: C:\CPWIN\DATA1\PESTWDB.MET
Calibration File A: C:\CPWIN\DATA1\1P3259.CAL
Calibration File B: C:\CPWIN\DATA1\1P3259B.CAL
Format A: C:\CPWIN\DATA1\PESTWD.FMTA
Format B: C:\CPWIN\DATA1\PESTWD.FMTB
Area File Created On: 9/23/98 6:20:06 PM
File Reported On: 9/23/98 at 6:20:15 PM

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Batch No: 982680010A

Sample Name: BLANKA 9/26/98AF PBLKTI
Injected on: 09-29-1998 12:52:23 Instrument: CP07--H5088A Analyst: 120 Area File Name: C:\CP\DATA1\4P7263.19A
Sample Amount: 1 G or mL Total Volume: 50 mL

Units: uG/L or uG/kG

Pattern	Amount Found	No Of Peaks Found	Minimum Required	%RSD	Maximum Allowed %RSD	Worst Case**	Comments
Aroclor-1016*	62.4063	2	4	22.87900%	15.0000%	52.310310	<25CD
Aroclor-1221	no peaks						
Aroclor-1232*	164.3067	2	4	21.59784%	10.0000%	139.213852	
Aroclor-1242*	436.0117	3	4	142.11409%	30.0000%	67.685486	
Aroclor-1248*	2818.5183	3	4	109.37985%	30.0000%	53.611332	
Aroclor-1254	2014.1458	4	4	34.79429%	40.0000%	869.325684	
Aroclor-1260	4414.7422	7	4	15.79354%	40.0000%	3564.090820	REPORT B

Peaks Used To Quantify Above Amount Found Values:

Pattern	Retention Time and Calculated Amount Found for Each Peak						
Aroclor-1016	3.220	4.124					
	52.3103	72.5024					
Aroclor-1232	3.220	4.124					
	139.2139	189.3996					
Aroclor-1242	2.673	3.220	4.124				
	1151.3982	67.6855	88.9514				
Aroclor-1248	4.124	4.871	5.340				
	53.6113	6142.7969	2259.1470				
Aroclor-1254	4.563	4.871	5.184	5.677			
	1650.9099	2871.3118	2259.4905	1274.8713			
Aroclor-1260	5.555	5.891	6.039	6.228	6.362	6.658	7.038
	4174.7651	5065.6270	4117.0527	5526.9438	3564.0908	3829.7329	4624.9819
Non-Quantitation Peaks with matching retention times:							
Aroclor-1254	5.891	6.228	5.555	5.340			
	8348.6191	6788.4834	9248.6797	869.3257			

Reviewed by RLJ ASU Date: 9/1/98 %SSR(A): 95 114 %
%SSR(B): 69 82 %

* This pattern is not in this sample, but values are supplied anyway.
** Calculated lowest amount found among all peaks with matching retention times.

Reported on 09-29-1998 14:05:13PCB File: C:\CP\1P7263.TXT Last Calibrated on 09-21-1998 08:47:39 CheckPCB Revision 3.23

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Batch No: 982680010A

Sample Name: BLANKA 9/26/98AF PBLKTI
Injected on: 09-29-1998 12:52:24 Instrument: CP07--H5088B Analyst: 120 Area File Name: C:\CP\DATA1\4P7263B.19A
Sample Amount: 1 G or mL Total Volume: 50 mL

Units: uG/L or uG/KG

Pattern	Amount Found	No Of Peaks Found	Minimum Required	%RSD	Maximum Allowed %RSD	Worst Case**	Comments
Aroclor-1016*	255.2428	1	4	0.00000%	15.0000%	255.242798	225.00
Aroclor-1221*	2999.3813	2	3	132.05936%	5.0000%	198.557220	
Aroclor-1232*	238.0175	1	4	0.00000%	10.0000%	238.017456	
Aroclor-1242*	1069.6670	1	4	0.00000%	30.0000%	1069.666992	
Aroclor-1248*	2696.0405	2	4	19.45337%	30.0000%	2325.183838	
Aroclor-1254*	1825.0537	3	4	42.55803%	40.0000%	886.770996	
Aroclor-1260	5722.4834	7	4	21.73849%	40.0000%	4170.271484	

Peaks Used To Quantify Above Amount Found Values:

Pattern	Retention Time and Calculated Amount Found for Each Peak						
Aroclor-1016	2.695						
	255.2428						
Aroclor-1221	2.584	2.695					
	5800.2056	198.5572					
Aroclor-1232	2.695						
	238.0175						
Aroclor-1242	2.584						
	1069.6670						
Aroclor-1248	4.779	5.548					
	3066.8975	2325.1838					
Aroclor-1254	4.779	5.010	5.410				
	1926.4049	2546.1096	1002.6466				
Aroclor-1260	5.780	6.037	6.462	6.573	6.924	7.235	7.674
	4800.3999	6435.4834	7226.6343	4170.2715	4593.7642	5701.2090	7129.6230

Non-Quantitation Peaks with matching retention times:

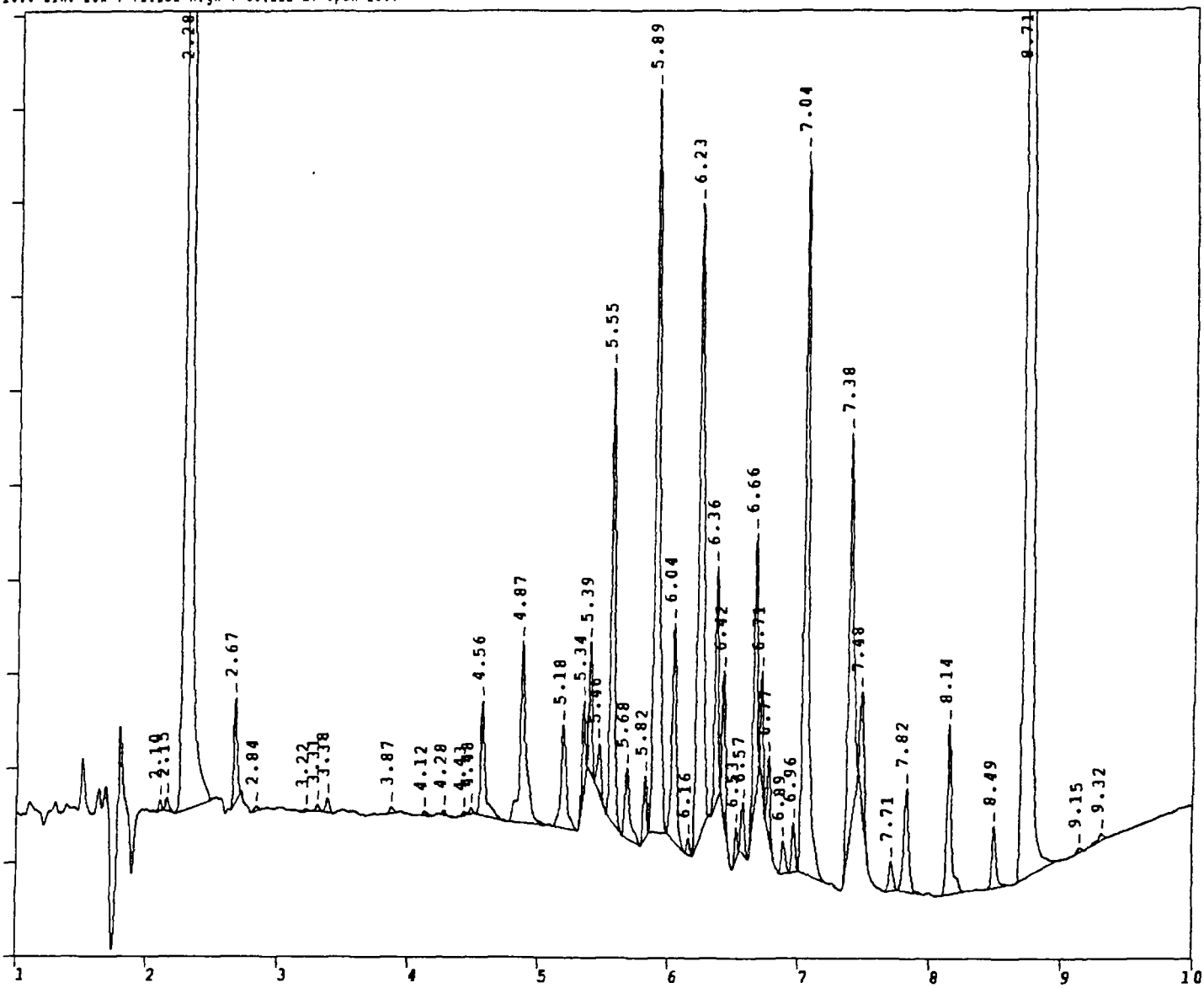
Aroclor-1254	6.037	6.462	5.548
	13040.3848	8498.8467	886.7710

Reviewed by RW A Sh Date: 10/1/98 %SSR(A): 95 114 %
%SSR(B): 65 82 %

* This pattern is not in this sample, but values are supplied anyway.
** Calculated lowest amount found among all peaks with matching retention times.

Reported on 09-29-1998 14:33:54PCB File: C:\CP\1P7263B.TXT Last Calibrated on 09-21-1998 10:13:32 CheckPCB Revision 3.23

File=C:\CP\DATA1\4P7263.19R Date printed=09-29-1998 Time= 12:52:36
Sample Name=BLANKA 9/26/98AF ABPBLKTI BLK 982680010A
1.0 to 10.0 min. Low Y=71.112 High Y=86.112 mv Span=15.0



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==========PCB==========
Sample Name: BLANKA 9/26/98AF ABPBLKTI BLK 982680010A
Instrument ID: CP07--H5088A Injected on: Sep 29, 1998 12:52:23
Vol. Inj. per column(ul): 1 GC Column ID: RTX-CLP, 30M X 0.32MM X 0.5MM
Raw File: C:\CP\DATA1\4P7263.19R

GC Conditions: Injector 250C Detector 300C
Oven - 160-0-15-300-4, H2 CARRIER, 12PSI
Run time: 10 Analyst: 120

==========PCB==========

Sample Name: BLANKA 9/26/98AF ABPBLKTI BLK 982680010A
Instrument ID: CP07--H5088A Injected on: Sep 29, 1998 12:52:23
Volume Inj. per column: 1 GC Column ID: RTX-CLP, 30M X 0.32MM X 0.5MM
Sample Amount: 1 Dilution Factor: 50
Raw File: C:\CP\DATA1\4P7263.19R

GC Conditions: Injector 250C Detector 280C
Oven: 160-0-15-300-4, H2 CARRIER, 12PSI
Analyst: 120

Integration & Calculation Parameters:
Threshold: 1 Width: .02 Area Reject: 0

Calib. Type: EXTERNAL Quantitation: HEIGHT

Peak Table:

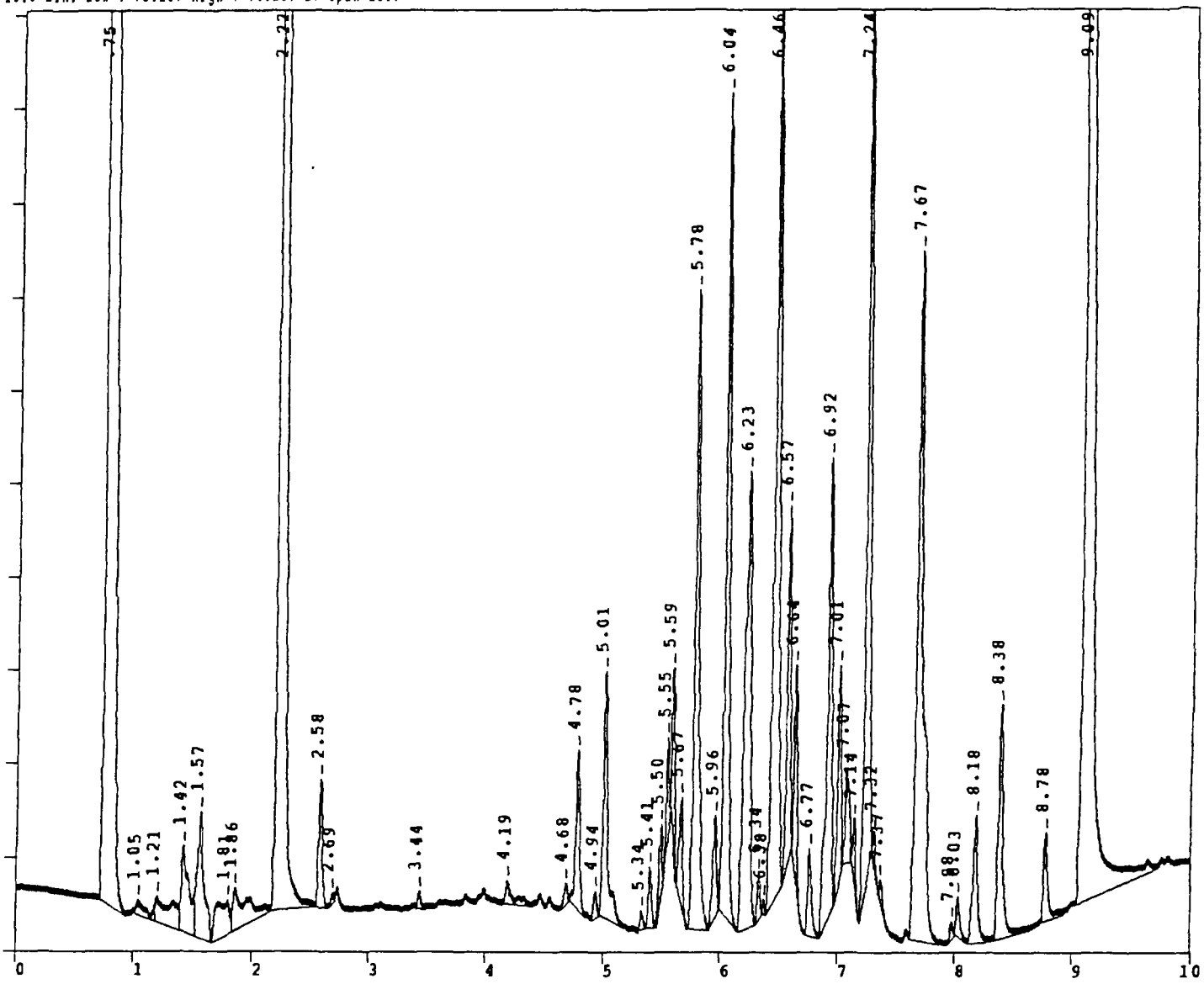
Peak #	Ret Time (min)	Peak Height	Peak Area	Half Width (min)	Amount PPB	Peak Name
1	2.104	173	271	0.027	0.0000	
2	2.155	213	374	0.028	0.0000	
3	2.283	146841	265643	0.026	3784.3682	TCX
4	2.673	1646	2744	0.028	0.0000	
5	2.836	75	157	0.057	0.0000	
6	3.220	39	89	0.036	0.0000	
7	3.308	112	199	0.027	0.0000	
8	3.382	230	467	0.033	0.0000	
9	3.869	103	221	0.039	0.0000	
10	4.124	68	170	0.041	0.0000	
11	4.276	85	137	0.029	0.0000	
12	4.430	61	108	0.037	0.0000	
13	4.482	97	144	0.026	0.0000	
14	4.563	1800	4548	0.033	0.0000	
15	4.871	2864	9134	0.036	0.0000	
16	5.184	1619	4912	0.043	0.0000	
17	5.340	1457	2349	0.036	0.0000	
18	5.389	2072	3349	0.027	0.0000	
19	5.461	807	1618	0.049	0.0000	
20	5.555	7130	15184	0.033	0.0000	
21	5.677	1105	3164	0.040	0.0000	
22	5.821	1005	1795	0.032	0.0000	
23	5.891	11746	30132	0.035	0.0000	
24	6.039	3439	8267	0.037	0.0000	
25	6.158	255	427	0.029	0.0000	
26	6.228	10086	28416	0.046	0.0000	
27	6.362	3755	6582	0.030	0.0000	
28	6.419	2216	3987	0.034	0.0000	
29	6.526	476	702	0.032	0.0000	
30	6.573	807	1432	0.031	0.0000	
31	6.658	4294	7378	0.032	0.0000	
32	6.708	1771	2709	0.030	0.0000	
33	6.767	1224	2103	0.034	0.0000	
34	6.886	504	1088	0.035	0.0000	
35	6.962	773	1438	0.030	0.0000	
36	7.038	11381	29335	0.035	0.0000	
37	7.383	6480	15871	0.045	0.0000	
38	7.476	1775	4057	0.053	0.0000	
39	7.708	460	1032	0.036	0.0000	
40	7.821	1636	4443	0.040	0.0000	

42	8.488	981	2273	0.034	0.0000	
43	8.715	103253	222596	0.031	2767.8691	DCB
44	9.149	65	124	0.046	0.0000	
45	9.316	107	340	0.065	0.0000	

FILES:
Area file: C:\CP\DATA1\4P7263.19A
Method file: C:\CP\DATA1\PCBS.MET
Calibration File: C:\CP\DATA1\1P7263.CAL
Format File: C:\CP\DATA1\PCBS.FMT
Area file created on: 09/29/98 12:53:24
File reported on: 09-29-1998at 12:53:34

FOR 8081 SSR:
%TCX SSR = 94.60921
%DCB SSR = 69.19673

File:C:\CP\DATA1\4P7263B.19R Date printed=09-29-1998 Time= 12:53:49
Sample Name=BLANKA 9/26/98AF ABPBLKTI BLK 982680010A
0.0 to 10.0 min. Low Y=75.189 High Y=90.189 mv Span=15.0



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==========PCB==========
Sample Name: BLANKA 9/26/98AF ABPBLKTI BLK 982680010A
Instrument ID: CP07--H5088B Injected on: Sep 29, 1998 12:52:24
Vol. Inj. per column(ul): 1 GC Column ID: RTXCLP2, 30M X 0.32MM X 0.25UM
Raw File: C:\CP\DATA1\4P7263B.19R

GC Conditions: Injector 250C Detector 300C
Oven - 160-0-15-300-4, H2 CARRIER, 12PSI
Run time: 10 Analyst: 120

==========PCB==========

Sample Name: BLANKA 9/26/98AF ABPBLKTI BLK 982680010A
Instrument ID: CP07--H5088B Injected on: Sep 29, 1998 12:52:24
Volume Inj. per column: 1 GC Column ID: RTXCLP2, 30M X 0.32MM X 0.25UM
Sample Amount: 1 Dilution Factor: 50
Raw File: C:\CP\DATA1\4P7263B.19R

GC Conditions: Injector 250C Detector 280C
Oven: 160-0-15-300-4, H2 CARRIER, 12PSI
Analyst: 120

Integration & Calculation Parameters:
Threshold: 1 Width: .02 Area Reject: 0

Calib. Type: EXTERNAL Quantitation: HEIGHT

Peak Table:

Peak #	Ret Time (min)	Peak Height	Peak Area	Half Width (min)	Amount PPB	Peak Name
1	0.746	140552	448803	0.052	0.0000	
2	1.048	240	1261	0.074	0.0000	
3	1.206	416	4172	0.200	0.0000	
4	1.421	1371	6078	0.055	0.0000	
5	1.569	2020	8345	0.057	0.0000	
6	1.806	528	4318	0.150	0.0000	
7	1.863	672	5427	0.280	0.0000	
8	2.216	206538	380311	0.026	4540.2397	TCX
9	2.584	2034	4193	0.032	0.0000	
10	2.695	182	244	0.034	0.0000	
11	3.437	282	534	0.032	0.0000	
12	4.194	364	1651	0.044	0.0000	
13	4.684	345	665	0.044	0.0000	
14	4.779	2497	5977	0.037	0.0000	
15	4.937	440	816	0.034	0.0000	
16	5.010	3895	10746	0.036	0.0000	
17	5.342	296	517	0.033	0.0000	
18	5.410	961	1901	0.031	0.0000	
19	5.500	1168	1885	0.037	0.0000	
20	5.548	1644	2279	0.034	0.0000	
21	5.590	2630	4572	0.032	0.0000	
22	5.668	1660	3699	0.041	0.0000	
23	5.780	10170	26813	0.034	0.0000	
24	5.963	1627	3780	0.037	0.0000	
25	6.037	13067	30612	0.034	0.0000	
26	6.231	7266	26114	0.063	0.0000	
27	6.337	729	1198	0.030	0.0000	
28	6.384	235	264	0.022	0.0000	
29	6.462	14347	41689	0.043	0.0000	
30	6.573	5748	10944	0.032	0.0000	
31	6.637	3231	6337	0.035	0.0000	
32	6.773	1388	3293	0.036	0.0000	
33	6.924	7336	18935	0.036	0.0000	
34	7.010	3521	6608	0.032	0.0000	
35	7.074	1517	3405	0.040	0.0000	
36	7.142	949	1693	0.039	0.0000	
37	7.235	15269	33972	0.035	0.0000	
38	7.315	522	847	0.036	0.0000	
39	7.373	379	747	0.041	0.0000	
40	7.674	10978	[illegible]	[illegible]	[illegible]	

42	8.031	633	1403	0.038	0.0000	
43	8.178	2015	5985	0.039	0.0000	
44	8.382	3711	10078	0.035	0.0000	
45	8.778	1399	3524	0.034	0.0000	
46	9.086	137585	308031	0.030	3272.5417	DCB

FILES:
Area file: C:\CP\DATA1\4P7263B.19A
Method file: C:\CP\DATA1\PCBSB.MET
Calibration File: C:\CP\DATA1\1P7263B.CAL
Format File: C:\CP\DATA1\PCBS.FMT
Area file created on: 09/29/98 12:54:58
File reported on: 09-29-1998at 12:55:08

FOR 8081 SSR:
%TCX SSR = 113.506
%DCB SSR = 81.81355

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Batch No: 982750000A

Sample Name: BLANKA 10/2/98AF PBLKWF
Injected on: 10-02-1998 10:38:59 Instrument: CP07--H5088A Analyst: 883 Area File Name: C:\CP\DATA1\5P7263.50A
Sample Amount: 1 G or mL Total Volume: 50 mL

Units: uG/L or uG/kG

Pattern	Amount Found	No Of Peaks Found	Minimum Required	%RSD	Maximum Allowed %RSD	Worst Case**	Comments
Aroclor-1016*	109.4474	1	4	0.00000%	15.0000%	109.447403	<>500
Aroclor-1221	no peaks						
Aroclor-1232*	308.2403	1	4	0.00000%	10.0000%	308.240265	
Aroclor-1242*	707.9017	2	4	112.03276%	30.0000%	147.108154	
Aroclor-1248*	273.2319	1	4	0.00000%	30.0000%	273.231873	
Aroclor-1254*	72.5523	1	4	0.00000%	40.0000%	72.552269	
Aroclor-1260*	47.9617	3	4	44.36998%	40.0000%	28.926300	

Peaks Used To Quantify Above Amount Found Values:

Pattern	Retention Time and Calculated Amount Found for Each Peak		
Aroclor-1016	3.497		
	109.4474		
Aroclor-1232	3.497		
	308.2403		
Aroclor-1242	2.675	3.497	
	1268.6952	147.1082	
Aroclor-1248	3.497		
	273.2319		
Aroclor-1254	5.925		
	72.5523		
Aroclor-1260	5.925	6.261	7.043
	44.0220	70.9369	28.9263

Non-Quantitation Peaks with matching retention times: None

Reviewed by M. Kielb Date: 10-02-98 %SSR(A): TCX 94 %
%SSR(B): DCB 66 %

* This pattern is not in this sample, but values are supplied anyway.
** Calculated lowest amount found among all peaks with matching retention times.

Reported on 10-02-1998 13:33:27PCB File: C:\CP\1P7263.TXT Last Calibrated on 09-21-1998 08:47:39 CheckPCB Revision 3.23

Lancaster Laboratories
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Batch No: 982750000A

Sample Name: BLANKA 10/2/98AF PBLKWF
Injected on: 10-02-1998 10:38:59 Instrument: CP07--H5088B Analyst: 883 Area File Name: C:\CP\DATA1\5P7263B.50A
Sample Amount: 1 G or mL Total Volume: 50 mL

Units: uG/L or uG/kG

Pattern	Amount Found	No Of Peaks Found	Minimum Required	%RSD	Maximum Allowed %RSD	Worst Case**	Comments
Aroclor-1016	no peaks						<2500
Aroclor-1221*	4802.4839	1	3	0.00000%	5.0000%	4802.483887	peaks absent
Aroclor-1232	no peaks						
Aroclor-1242*	885.6683	1	4	0.00000%	30.0000%	885.668335	
Aroclor-1248	no peaks						
Aroclor-1254	no peaks						
Aroclor-1260	no peaks						

Peaks Used To Quantify Above Amount Found Values:

Pattern	Retention Time and Calculated Amount Found for Each Peak
Aroclor-1221	2.575
	4802.4839
Aroclor-1242	2.575
	885.6683

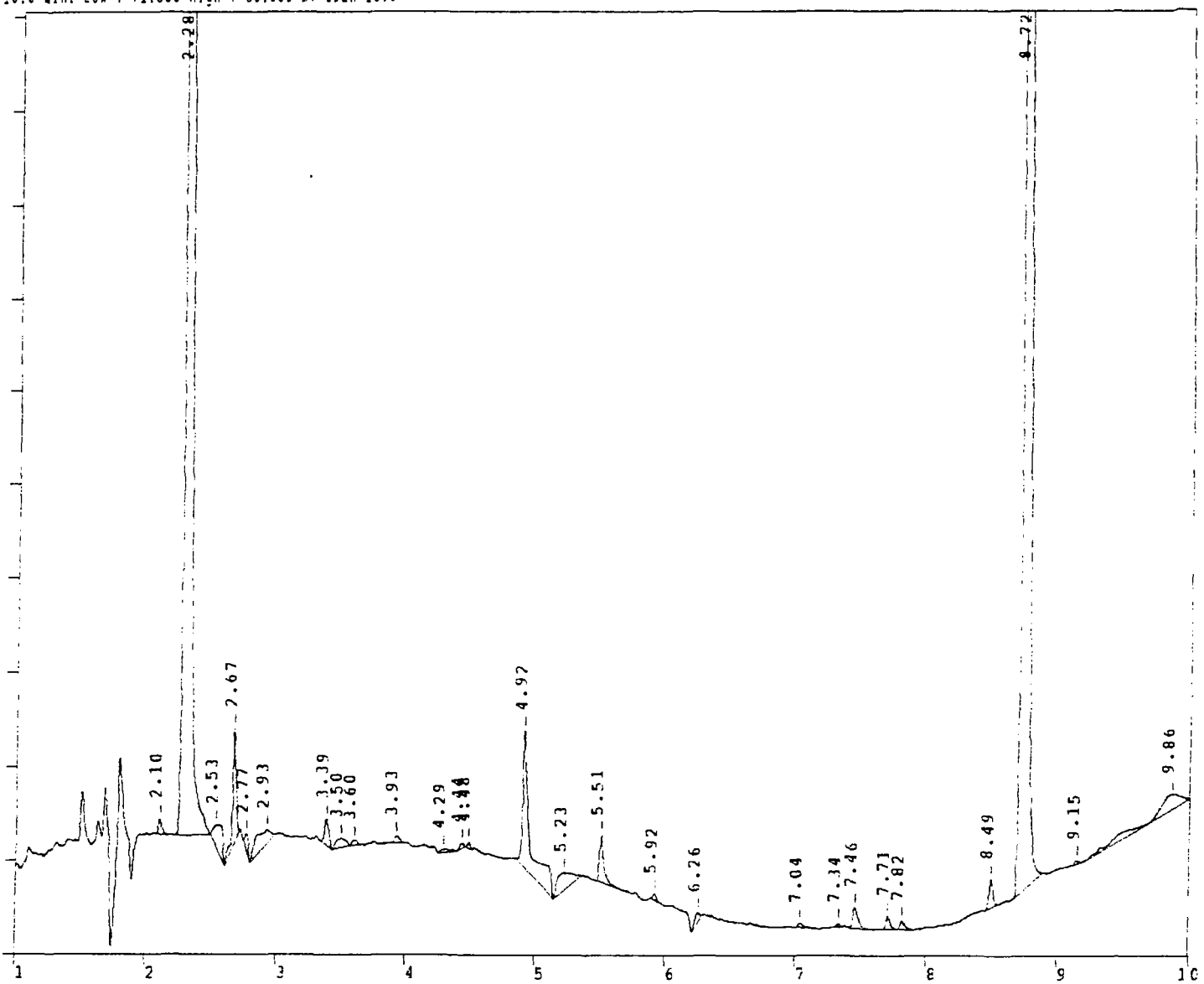
Non-Quantitation Peaks with matching retention times: None

Reviewed by M. Kielb Date: 10-02-98 %SSR(A): TCX 109 %
%SSR(B): DCB 66 %

* This pattern is not in this sample, but values are supplied anyway.
** Calculated lowest amount found among all peaks with matching retention times.

Reported on 10-02-1998 14:44:16PCB File: C:\CP\1P7263B.TXT Last Calibrated on 09-21-1998 10:13:32 CheckPCB Revision 3.23

File=C:\CP\DATA1\5P7263.50R Date printed=10-02-1998 Time= 11:53:43
Sample Name=BLANKA 10/2/98AF ABPBLKWF BLK 982750000A
1.0 to 10.0 min. Low Y=71.856 High Y=86.856 Rev Span=15.0



Lancaster Laboratories
Where quality is a science.

==========PCB==========
Sample Name: BLANKA 10/2/98AF ABPBLKWF BLK 982750000A
Instrument ID: CP07--H5088A Injected on: Oct 2, 1998 10:38:59
Vol. Inj. per column(ul): 1 GC Column ID: RTX-CLP, 30M X 0.32MM X 0.5MM
Raw File: C:\CP\DATA1\5P7263.50R

GC Conditions: Injector 250C Detector 300C
Oven - 160-0-15-300-4, H2 CARRIER, 12PSI
Run time: 10 Analyst: 883

Lancaster Laboratories
Where quality is a science.

==========PCB==========

Sample Name: BLANKA 10/2/98AF ABPBLKWF BLK 982750000A
Instrument ID: CP07--H5088A Injected on: Oct 2, 1998 10:38:59
Volume Inj. per column: 1 GC Column ID: RTX-CLP, 30M X 0.32MM X 0.5MM
Sample Amount: 1 Dilution Factor: 50
Raw File: C:\CP\DATA1\5P7263.50R

GC Conditions: Injector 250C Detector 280C
Oven: 160-0-15-300-4, H2 CARRIER, 12PSI
Analyst: 883

Integration & Calculation Parameters:
Threshold: 1 Width: .02 Area Reject: 0

Calib. Type: EXTERNAL Quantitation: HEIGHT

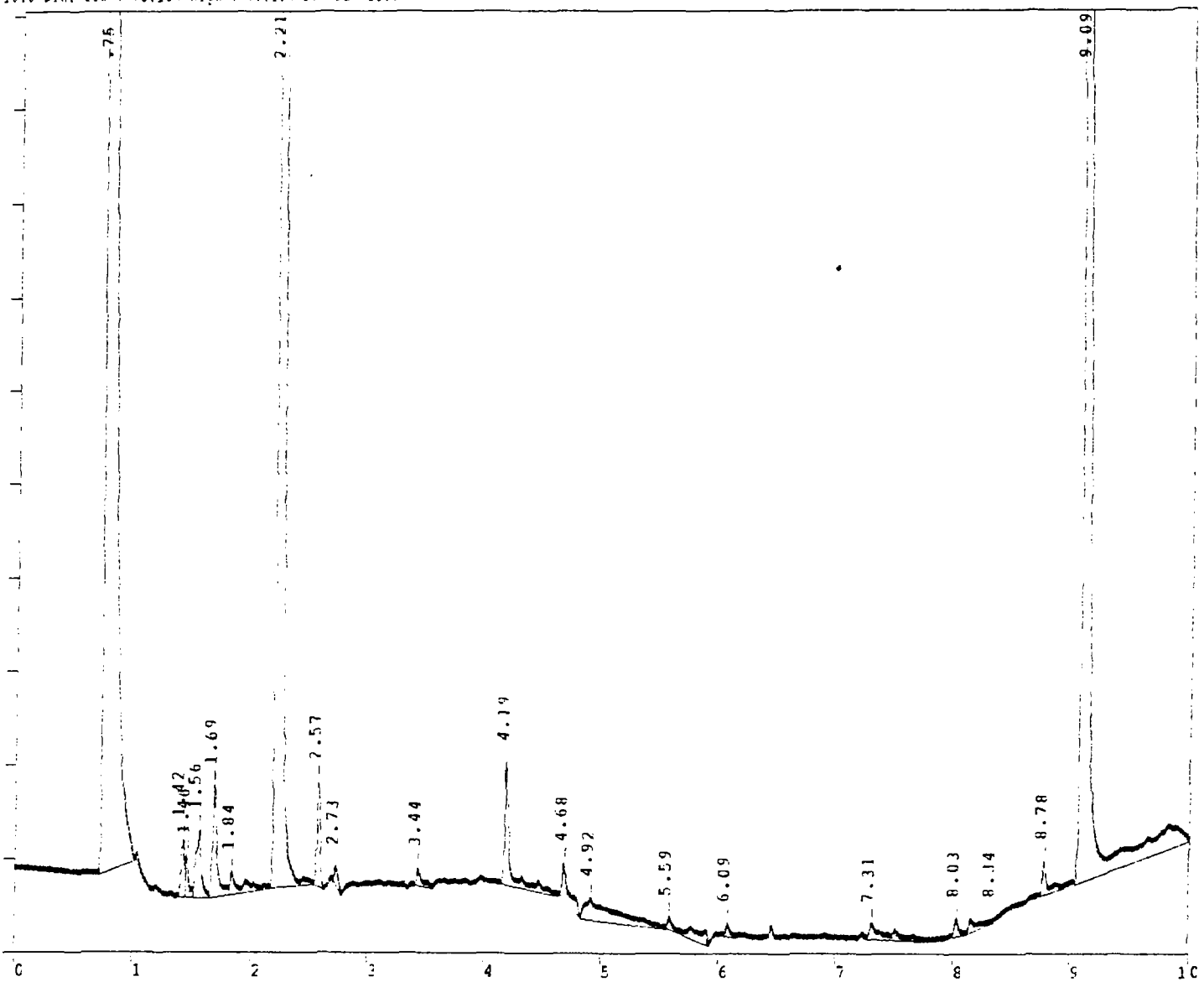
Peak Table:

Peak #	Ret Time (min)	Peak Height	Peak Area	Half Width (min)	Amount PPB	Peak Name
1	2.105	240	437	0.028	0.0000	
2	2.285	145833	255408	0.025	3758.3840	TCX
3	2.535	350	2026	0.103	0.0000	
4	2.675	1813	3324	0.031	0.0000	
5	2.767	244	496	0.045	0.0000	
6	2.925	218	2049	0.157	0.0000	
7	3.385	421	953	0.039	0.0000	
8	3.497	154	796	0.103	0.0000	
9	3.601	89	244	0.051	0.0000	
10	3.927	115	321	0.046	0.0000	
11	4.288	51	246	0.132	0.0000	
12	4.436	90	160	0.039	0.0000	
13	4.484	86	132	0.029	0.0000	
14	4.915	2170	8680	0.041	0.0000	
15	5.228	274	2253	0.189	0.0000	
16	5.510	758	1906	0.039	0.0000	
17	5.925	102	207	0.054	0.0000	
18	6.261	129	346	0.052	0.0000	
19	7.043	71	222	0.048	0.0000	
20	7.337	52	94	0.029	0.0000	
21	7.462	326	990	0.047	0.0000	
22	7.710	205	494	0.036	0.0000	
23	7.816	138	383	0.042	0.0000	
24	8.493	447	940	0.035	0.0000	
25	8.720	98618	209236	0.031	2643.6062	DCB
26	9.153	57	97	0.044	0.0000	
27	9.860	241	4013	0.377	0.0000	

FILES:
Area file: C:\CP\DATA1\5P7263.50A
Method file: C:\CP\DATA1\PCBW.MET
Calibration File: C:\CP\DATA1\1P7263.CAL
Format File: C:\CP\DATA1\PCBW.FMT
Area file created on: 10/02/98 11:54:32 H_2O method used
File reported on: 10-02-1998at 11:54:41

FOR 8081 SSR:
%TCX SSR =939.596/10
%DCB SSR =660.0016/

File=C:\CP\DATA1\5P726ZB.50R Date printed=10-02-1998 Time= 11:55:00
Sample Name=BLANKA 10/2/98AF ABPBLKWF BLK 982750000A
0.0 to 10.0 min. Low Y=75.1e4 High Y=90.1e4 ev Start=15.0



Lancaster Laboratories
Where quality is a science.

==========PCS==========
Sample Name: BLANKA 10/2/98AF ABPBLKWF BLK 982750000A
Instrument ID: CP07--H5088B Injected on: Oct 2, 1998 10:38:59
Vol. Inj. per column(ul): 1 GC Column ID: RTXCLP2, 30M X 0.32MM X 0.25UM
Raw File: C:\CP\DATA1\5P726ZB.50R

GC Conditions: Injector 250C Detector 300C
Oven - 160-0-15-300-4, H2 CARRIER, 12PSI
Run time: 10 Analyst: 883

Lancaster Laboratories
where quality is a science.

==========PCB==========

Sample Name: BLANKA 10/2/98AF ABPBLKWF BLK 982750000A
Instrument ID: CP07--H5088B Injected on: Oct 2, 1998 10:38:59
Volume Inj. per column: 1 GC Column ID: RTXCLP2, 30M X 0.32MM X 0.25UM
Sample Amount: 1 Dilution Factor: 50
Raw File: C:\CP\DATA1\SP7263B.50R

GC Conditions: Injector 250C Detector 280C
Oven: 160-0-15-300-4, H2 CARRIER, 12PSI
Analyst: 883

Integration & Calculation Parameters:
Threshold: 1 Width: .02 Area Reject: 0

Calib. Type: EXTERNAL Quantitation: HEIGHT

Peak Table:

Peak #	Ret Time (min)	Peak Height	Peak Area	Half Width (min)	Amount PPB	Peak Name
1	0.753	15773	229162	0.060	0.0000	
2	1.400	954	1720	0.035	0.0000	
3	1.457	695	1352	0.036	0.0000	
4	1.562	1100	3533	0.050	0.0000	
5	1.608	1792	3041	0.037	0.0000	
6	1.640	384	2291	0.131	0.0000	
7	2.212	198841	352383	0.025	4371.0381	TOX
8	2.575	1634	3166	0.030	0.0000	
9	2.727	302	666	0.045	0.0000	
10	3.436	305	588	0.037	0.0000	
11	4.186	1959	5410	0.033	0.0000	
12	4.684	587	2456	0.069	0.0000	
13	4.916	370	1905	0.399	0.0000	
14	5.592	213	2594	0.744	0.0000	
15	6.006	220	311	0.043	0.0000	
16	7.314	268	2597	0.247	0.0000	
17	8.033	200	783	0.038	0.0000	
18	8.343	87	1156	0.213	0.0000	
19	8.779	357	1718	0.030	0.0000	
20	9.089	111080	231119	0.023	9642.1016	DCB

FILES:
Area file: C:\CP\DATA1\SP7263B.50R
Method file: C:\CP\DATA1\PCBWP.MET
Calibration File: C:\CP\DATA1\SP7263B.CAL
Format File: C:\CP\DATA1\PCBW.FMT
Area file created on: 10/02/98 11:53:38
File reported on: 10-02-1998at 11:56:07

FOR 8081 SSR:
%TCX SSR =1092.76/10
%DCB SSR =660.5294/10

(5)

Extraction/Distillation/Digestion Logs

Organic Extraction Batchlog

Prep Analysis # 00817 Water Sample Pest. Extraction

Prep Group # 11 PCBs - waters **Dept:** 24

Reviewed By: [illegible]
Start Date: 15:15
Start Time: 9/22/98
Tech 1: [illegible] 796
Tech 2:

BATCH NO. 982650008A

QC	Sample Code	Amt (M)	SS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	Comments
BLANKA	PBLKPY	1000	SS98247A	1.0			10	5		
LCSA	LCSML	1000	SS98247A	1.0	MS98239B	1.0		5		
LCSDA	LCSD00	1000	SS98247A	1.0	MS98239B	1.0		5		
3000705MS	916INMS	250	SS98247A	1.0	MS98239B	1.0		7		
3000705MSD	916INMSD	250	SS98247A	1.0	MS98239B	1.0		7		

[illegible] 796 9/22/98

	Sample #	Sample Code	Amt (M)	SS Sol.	Amt (mL)	FV (mL)	pH	pH	Comments	Analyses	Due Date	Pri
1	3000705 bkg	916IN	1038	SS98247A	1.0	10	8		light amber color, cloudy	173	9/30/98	N
2	3000706	916BT	1040	SS98247A	1.0		7			173	9/30/98	N
3	3000707	916EF	1043	SS98247A	1.0		7		light amber color cloudy	173	9/30/98	N
4	3001077	20-1-	1045	SS98247A	1.0		7		gray color, Sed	173	10/1/98	P
5	3001080	20-2-	973	SS98247A	1.0		7		light yellow, dense	173	10/1/98	P
6	3001162	WESTS	250	SS98247A	1.0		7		light Brown, dense, STRONG odor [illegible]	173	10/1/98	P 1X
7	3001163	SOUTS	250	SS98247A	1.0		7		Brown color, strong odor, oily residue	173	10/1/98	P 3X
8	3002165		1044	SS98247A	1.0		6					
9	3001093		963	SS98247A	1.0		6					
10												
11	SAMPLES 3001162-63 were very bad on EMULSION. Were very											
12	strong chemical odor. When cooking down they foamed											
13	and sample 3001163 stopped at 10mls and would											
14	not go any further. They both had an oily residue											
15												
16												
17												
18												
19												

[illegible] 796 9/22/98

Additional Comment:

Solvent Used	Lot No.	Solvent Used	Lot No.
mech	M20267	H_2SO_4	984784
hexane	970937	—	—
H_2SO_4	L49049	—	—
Internal Standar	—	Balance #	—

S-Evap/bath	99 °C	S-Evap/bath	°C	N-Evap	°C

DF = Dilution Factor FV = Final Volume

page 1 of 1

Spike Solutions:

SS98247A SW846 SURROGATE STANDARD
MS98239B PCB SPIKE (5)

Prep-Process Worksheet

Acid Cleanup

Prep Analysis #

Prep Group #

BATCH NO.

Verified: RY

Start Date: 9/22/98

Start Time: 2D100

Tech 1: LM 796

Tech 2: —

	Sample #	Aliquot (ml)	Final Volume (ml)	D.F. Aliq.	D.F. F.V.	Comments	Analyses
1	BLANK	10 ML	10 ML				
2	LCS						
3	LCSD						1216
4	3000705 MS						1216
5	3000705 MSD						1216
6	3000705 BKG						1216
7	30000706						1216
8	3000707						1216
9	3001077						1216
10	3001080						1216
11	3001162						1216
12	3001163						1216
13	~~33~~ 3002165						1216
	3001093						

3) LM 796 9/22/98

LM 796 9/22/98

Additional Comment:

DF = Dilution Factor FV = Final Volume page 1 of 1

Solvent Used	Lot No.	Solvent Used	Lot No.
H2SO4	L49049	—	—
—	—	—	—
Florisil	—	—	—

Prep-Process Worksheet

Florisil

Prep Analysis #

Prep Group #

Verified: RS

Start Date: 9/22/98

Start Time: 26:00

Tech 1: [illegible]

Tech 2:

BATCH NO.

	Sample #	Aliquot (ml)	Final Volume (ml)	D.F. Aliq.	D.F. F.V.	Comments	Analyses
1	BLANK	2ML	2ML				
2	LCS						
3	LCSD						
4	3000705 MS						
5	3000705 MSD						
6	3000705 BKG						
7	3000706						
8	3000707						
9	3001077						
10	3001080						
11	3001162						
12	3001163						
13	3002165						
14	3001093						
15							
16							
17							
18							
19							
20							
21							
22							
23							

[illegible] 9/22/98

Additional Comment:

DF = Dilution Factor FV = Final Volume

page 1 of 1

Solvent Used	Lot No.	Solvent Used	Lot No.
Florisil 4054777			

Organic Extraction Batchlog

Prep Analysis # 00815 Oil Sample PCB's Cleanup Ext.
Prep Group # 205 PCBs - oils Dept: 24

Reviewed: MAK
Start Date: 10-2-98
Start Time: 8:15
Tech 1: 9·7·578
Tech 2:

BATCH NO. 982750000A

QC	Sample Code	Amt (g)	SS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	Comments
BLANKA	PBLKWF	1.0	SS98273A	1.0			9·7·578 10-2-98 X5.0		Hexane	
LCSA	LCSSY	↓	SS98273A	1.0	MS98209D	1.0	↓		↓	
LCSDA	LCSD4F	↓	SS98273A	1.0	MS98209D	1.0	↓		↓	

	Sample #	Sample Code	Amt (g)	SS Sol.	Amt (mL)	FV (mL)	pH	pH	Comments	Analyses	Due Date	Pri
1	3001161 R	SVE11	1.0	SS98273A	1.0	5.0				174	10/1/98	P
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

9·7·578
10-2-98

Additional Comment:

Solvent Used	Lot No.	Solvent Used	Lot No.
Hexane	970937		
Internal Standar		Balance #	

S-Evap/bath	°C	S-Evap/bath	°C	N-Evap	°C

DF = Dilution Factor FV = Final Volume

Spike Solutions:

SS98273A PCB OIL SURROGATE
MS98209D PCB CONTROL OIL

Prep-Process Worksheet

Acid Cleanup

Prep Analysis # 00815 Oil Sample PCB's Cleanup Ext.

Prep Group # 205 PCBs - oils

Verified: MAK
Start Date: 10-2-98
Start Time: 8:30
Tech 1: J.7.578
Tech 2:

BATCH NO. 982750000A

	Sample #	Aliquot (ml)	Final Volume (ml)	D.F. Aliq.	D.F. F.V.	Comments	Analyses
1	BLANKA	5.0	5.0				
2	LCSA	↓	↓				
3	LCSDA	↓	↓				
4	3001161	↓	↓				174
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							

J.7.578
10-2-98

Additional Comment:

DF = Dilution Factor FV = Final Volume

page 1 of 1

Solvent Used	Lot No.	Solvent Used	Lot No.
		H2SO4	1121828
Florisil			

S-Evap/bath	°C	S-Evap/bath	°C	N-Evap	°C

Prep-Process Worksheet

Florisil

Prep Analysis # 00815 Oil Sample PCB's Cleanup Ext.

Prep Group # 205 PCBs - oils

Verified: MAK
Start Date: 10-2-98
Start Time: 9:30
Tech 1: 7-7-578
Tech 2:

BATCH NO. 982750000A

	Sample #	Aliquot (ml)	Final Volume (ml)	D.F. Aliq.	D.F. F.V.	Comments	Analyses
1	BLANKA	1.0	10.0				
2	LCSA	↓	↓				
3	LCSDA						
4	3001161						174
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							

7-7-578
10-2-98

Additional Comment:

DF = Dilution Factor FV = Final Volume

page 1 of 1

Solvent Used	Lot No.	Solvent Used	Lot No.
Hexane	970937		
Silica gel	L46552		
Sulfuric Acid	M18551		
Florisil			

S-Evap/bath	°C	S-Evap/bath	°C	N-Evap	°C

Quantitative GC FingerPrint Data

Sample Data

3001161 DF Processed: 09-21-1998 23:12:38, segment 16, cycle 16
RAW DATA SAVED IN FILE J:J26416.PTS

***** EXTERNAL STANDARD TABLE *****

********** 09-21-1998 23:12:40 Version 5.1 **********
* Sample Name: 3001161 DF10 Data File: J:J26416 *
* Date: 09-21-1998 22:13:35 Method: J:LWS 08-14-1998 17:00:41 # 48 *
* Interface: 2 Cycle#: 16 Operator RGB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *
****

Starting Delay: 0.00 Ending retention time: 35.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in PPM	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	0.467		2.7971	0.2573%	27971	0	0.0	1			1.0000E-04
2	0.983		1.1953	0.1100%	11954	3845	3.1	1			1.0000E-04
3	2.317		0.6015	0.0553%	6015	920	6.5	2			1.0000E-04
4	2.383		24.8484	2.2861%	248484	138900	1.8	2			1.0000E-04
5	3.333		0.4316	0.0397%	4316	1811	2.4	1			1.0000E-04
6	3.883		1.4124	0.1299%	14124	1486	9.5	1			1.0000E-04
7	4.333		0.8889	0.0818%	8889	1008	8.8	1			1.0000E-04
8	4.600		0.6690	0.0615%	6690	1188	5.6	1			1.0000E-04
9	4.817		1.4698	0.1352%	14698	2435	6.0	2			1.0000E-04
10	4.950		1.8253	0.1679%	18253	6215	2.9	2			1.0000E-04
11	5.183		0.7672	0.0706%	7672	1700	4.5	2			1.0000E-04
12	5.317		1.5730	0.1447%	15730	4095	3.8	2			1.0000E-04
13	5.433		3.1668	0.2913%	31668	5019	6.3	2			1.0000E-04
14	5.733		1.5341	0.1411%	15341	4160	3.7	2			1.0000E-04
15	5.933		2.0999	0.1932%	20999	3437	6.1	2			1.0000E-04
16	6.050		2.3580	0.2169%	23580	3201	7.4	2			1.0000E-04
17	6.283		1.3712	0.1262%	13712	2146	6.4	2			1.0000E-04
18	6.483		3.8359	0.3529%	38359	14743	2.6	2			1.0000E-04
19	6.700		2.4041	0.2212%	24041	2477	9.7	2			1.0000E-04
20	7.050		0.4807	0.0442%	4807	1325	3.6	1			1.0000E-04
21	7.400		0.9976	0.0918%	9976	1804	5.5	2			1.0000E-04
22	7.483		0.7809	0.0718%	7809	2895	2.7	2			1.0000E-04
23	7.900		3.9158	0.3603%	39158	7391	5.3	2			1.0000E-04
24	8.433		1.2897	0.1187%	12897	2458	5.2	2			1.0000E-04
25	8.550		0.8542	0.0786%	8542	2481	3.4	2			1.0000E-04
26	8.633		1.5636	0.1439%	15636	2513	6.2	2			1.0000E-04
27	8.867		5.0676	0.4662%	50676	3692	13.7	2			1.0000E-04
28	9.250		1.5578	0.1433%	15578	4186	3.7	2			1.0000E-04
29	9.333		1.5667	0.1441%	15667	3357	4.7	2			1.0000E-04
30	9.433		2.5655	0.2360%	25655	3541	7.2	2			1.0000E-04
31	9.583		8.5167	0.7835%	85167	5369	15.9	2			1.0000E-04
32	10.067		16.2020	1.4906%	162020	32762	4.9	2			1.0000E-04
33	10.217		3.7942	0.3491%	37942	7743	4.9	2			1.0000E-04
34	10.317		12.4579	1.1461%	124579	37805	3.3	2			1.0000E-04
35	10.400		309.9071	28.5118%	3099072	982816	3.2	OV			1.0000E-04
36	10.633		6.4400	0.5925%	64400	11136	5.8	4			1.0000E-04
37	10.783		5.8327	0.5366%	58327	8740	6.7	4			1.0000E-04
38	10.950		9.8352	0.9048%	98352	10656	9.2	4			1.0000E-04
39	11.067		7.0317	0.6469%	70317	15957	4.4	4			1.0000E-04
40	11.150		6.8340	0.6287%	68340	14491	4.7	4			1.0000E-04
41	11.250		11.8709	1.0921%	118709	14416	8.2	4			1.0000E-04
42	11.383		6.7759	0.6234%	67759	12416	5.5	4			1.0000E-04
43	11.467		8.7344	0.8036%	87344	14329	6.1	4			1.0000E-04
44	11.567		10.1035	0.9295%	101035	14282	7.1	4			1.0000E-04
45	11.683		17.5807	1.6174%	175807	19115	9.2	2			1.0000E-04
46	12.017		24.0197	2.2098%	240197	18244	13.2	2			1.0000E-04

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42	11.383		6.7757	0.6254%	67757	12410	5.5	4			1.0000E-04
43	11.467		8.7344	0.8036%	87344	14329	6.1	4			1.0000E-04
44	11.567		10.1035	0.9295%	101035	14282	7.1	4			1.0000E-04
45	11.683		17.5807	1.6174%	175807	19115	9.2	2			1.0000E-04
46	12.017		24.0197	2.2098%	240197	18244	13.2	2			1.0000E-04
47	12.133		34.3547	3.1607%	343547	24710	13.9	2			1.0000E-04
48	12.433		30.8661	2.8397%	308661	22926	13.5	2			1.0000E-04
49	12.717		16.5396	1.5217%	165396	24992	6.6	2			1.0000E-04
50	12.800		17.7890	1.6366%	177890	32190	5.5	2			1.0000E-04
51	12.967		22.7912	2.0968%	227912	22420	10.2	2			1.0000E-04
52	13.167		29.6166	2.7248%	296166	21719	13.6	2			1.0000E-04
53	13.350		33.2711	3.0610%	332711	34200	9.7	2			1.0000E-04
54	13.500		38.5451	3.5462%	385451	24617	15.7	2			1.0000E-04
55	13.817		15.1771	1.3963%	151771	24352	6.2	2			1.0000E-04
56	13.883		40.7379	3.7479%	407379	41557	9.8	2			1.0000E-04
57	14.133		26.8553	2.4707%	268553	21794	12.3	2			1.0000E-04
58	14.417		22.3376	2.0551%	223376	20709	10.8	2			1.0000E-04
59	14.533		29.1591	2.6827%	291591	17294	16.9	2			1.0000E-04
60	14.900		26.8024	2.4659%	268024	24005	11.2	2			1.0000E-04
61	15.250	o-TERPHENYL	1.8820	0.1731%	81154	8810	9.2	2	61	0	2.3191E-05
62	15.450		5.0487	0.4645%	50487	7015	7.2	2			1.0000E-04
63	15.617		39.9798	3.6782%	399798	147011	2.7	2			1.0000E-04
64	15.867		5.6817	0.5227%	56817	9789	5.8	2			1.0000E-04
65	16.250		1.2954	0.1192%	12954	2482	5.2	2			1.0000E-04
66	16.450		1.9873	0.1828%	19873	2593	7.7	2			1.0000E-04
67	16.800		3.4460	0.3170%	34460	4590	7.5	2			1.0000E-04
68	17.367		5.1174	0.4708%	51174	2801	18.3	1			1.0000E-04
69	18.017		1.4937	0.1374%	14937	2264	6.6	1			1.0000E-04
70	18.300		0.8578	0.0789%	8579	1102	7.8	1			1.0000E-04
71	18.683		1.0861	0.0999%	10862	2108	5.2	1			1.0000E-04
72	18.867		2.6150	0.2406%	26150	2805	9.3	2			1.0000E-04
73	19.150		0.5641	0.0519%	5641	2162	2.6	2			1.0000E-04
74	19.350		0.3178	0.0292%	3178	1176	2.7	1			1.0000E-04
75	19.667		1.2519	0.1152%	12519	1826	6.9	1			1.0000E-04
76	19.950		1.2126	0.1116%	12127	1932	6.3	1			1.0000E-04
77	20.283		2.9297	0.2695%	29297	1794	16.3	2			1.0000E-04
78	20.983		1.1702	0.1077%	11702	2066	5.7	2			1.0000E-04
79	21.317		3.5552	0.3271%	35552	2556	13.9	2			1.0000E-04
80	21.700		1.4811	0.1363%	14811	2853	5.2	2			1.0000E-04
81	22.000		1.9577	0.1801%	19577	2265	8.6	2			1.0000E-04
82	22.617		8.0077	0.7367%	80077	3288	24.4	2			1.0000E-04
83	22.950		2.1255	0.1955%	21255	3893	5.5	2			1.0000E-04
84	23.017		2.8089	0.2584%	28089	3369	8.3	2			1.0000E-04
85	23.367		7.9624	0.7325%	79624	4412	18.0	2			1.0000E-04
86	23.867		3.6016	0.3314%	36016	4170	8.6	2			1.0000E-04
87	24.217		3.1525	0.2900%	31525	3663	8.6	2			1.0000E-04
88	24.450		6.2318	0.5733%	62318	4479	13.9	2			1.0000E-04
89	24.867		1.1251	0.1035%	11251	2713	4.1	2			1.0000E-04
90	24.950		2.5561	0.2352%	25561	3893	6.6	2			1.0000E-04
91	25.450		2.2799	0.2097%	22799	2499	9.1	2			1.0000E-04
92	25.583		4.3820	0.4031%	43820	3604	12.2	2			1.0000E-04
93	26.067		0.9909	0.0912%	9909	2652	3.7	2			1.0000E-04
94	26.167		1.6634	0.1530%	16634	3399	4.9	2			1.0000E-04
95	26.400		1.7817	0.1639%	17817	2481	7.2	2			1.0000E-04
96	26.717		3.1257	0.2876%	31257	3711	8.4	2			1.0000E-04
97	27.050		1.5780	0.1452%	15780	2039	7.7	2			1.0000E-04
98	27.283		2.7257	0.2508%	27257	4030	6.8	2			1.0000E-04
99	27.633		0.6308	0.0580%	6308	982	6.4	1			1.0000E-04
100	28.383		6.0972	0.5609%	60972	3176	19.2	1			1.0000E-04
101	29.367		0.9383	0.0863%	9383	1558	6.0	1			1.0000E-04
102	29.883		1.8732	0.1723%	18732	1442	13.0	1			1.0000E-04
103	30.617		3.3016	0.3038%	33016	2091	15.8	1			1.0000E-04
104	32.233		2.8351	0.2608%	28351	1831	15.5	1			1.0000E-04
105	33.733		0.3445	0.0317%	3445	1288	2.7	1			1.0000E-04
106	34.783		3.2221	0.2964%	32221	3917	8.2	1			1.0000E-04

TOTAL AMOUNT = 1086.9424

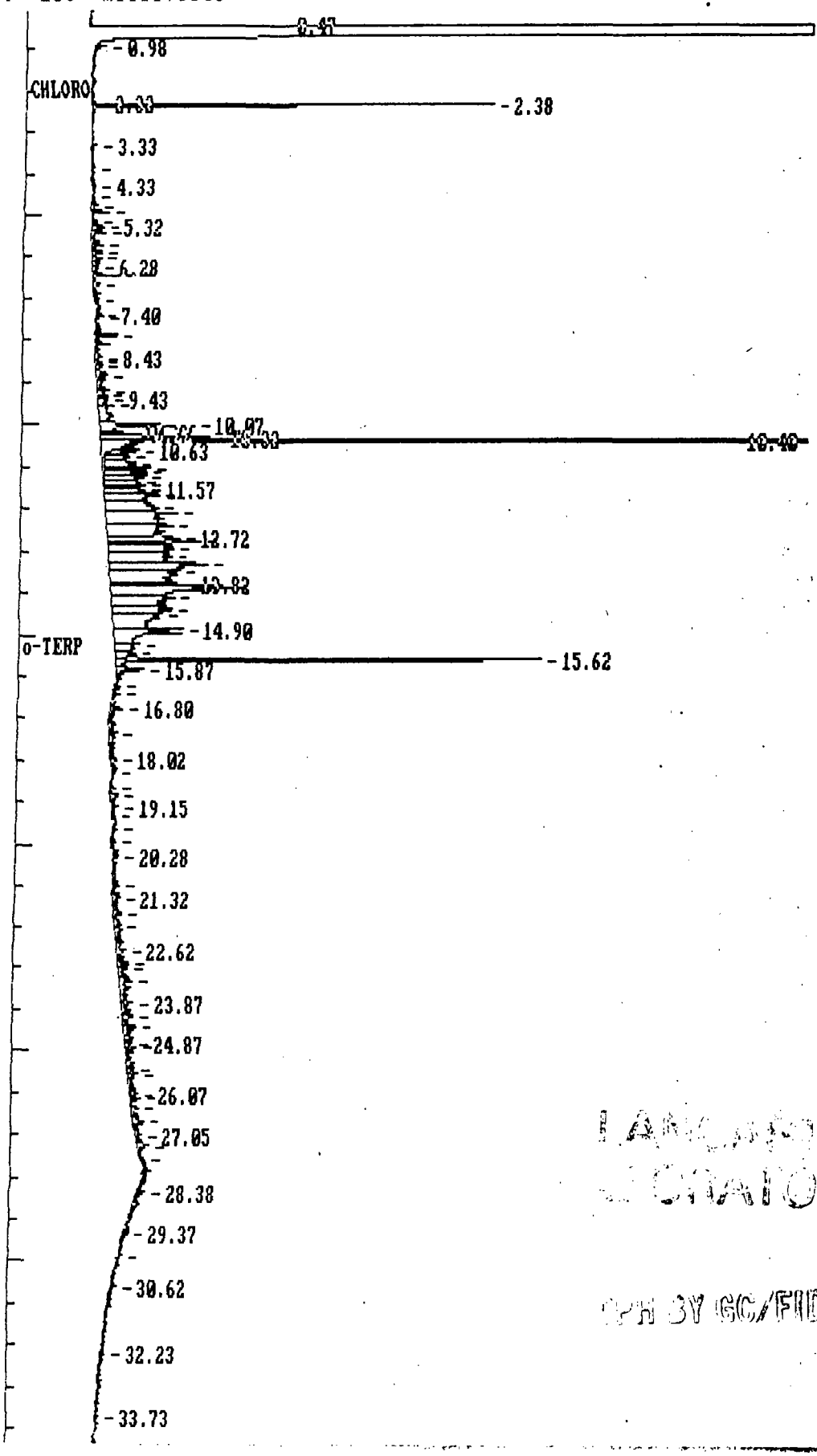
ANALYTICAL LABORATORIES
PHENOL/GC/FID

TOTAL AMOUNT = 1086.9424

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
CHLOROBENZENE	1.97	CHLOROBENZENE

Data File = J:J26416.PTS Printed on 09-21-1998 at 23:13:11
Start time: 0.00 min. Stop time: 35.00 min. Offset: 0 mv.
Full Range: 250 millivolts



LABORATORIES
TPH BY GC/FID

~~287/1910 x 100 = 15.0%~~

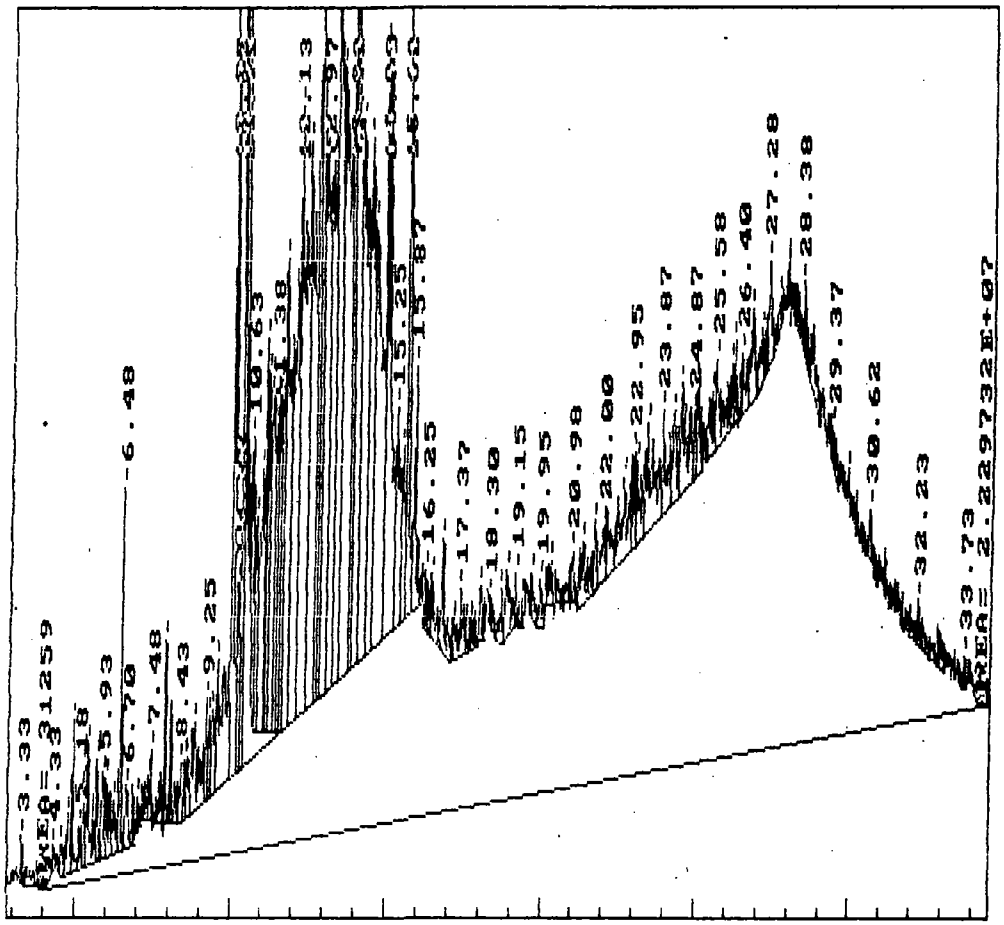
~~Comp. peak @ 10.4 min is ~15% of total product.~~

START TIME= 10.347 START HEIGHT= 34981
STOP TIME= 10.464 STOP HEIGHT= 26921
AREA = 2876308 Comp. peak @ 10.40 min
START TIME= 15.541 START HEIGHT= 27069
STOP TIME= 15.688 STOP HEIGHT= 26535
AREA = 358509 o-Terphl.
START TIME= 3.286 START HEIGHT= 12470
STOP TIME= 4.191 STOP HEIGHT= 12214
AREA = 31259
START TIME= 4.191 START HEIGHT= 12214
STOP TIME= 34.449 STOP HEIGHT= 19659
AREA = 2.229732E+07
Plot of data file: J:J26416.PTS
Date: 09-24-1998 Time: 10:29:01
Sample Name: 3001161 DF10
Start Time= 2.78Stop Time = 34.55Min. Scale= 11315Max. Scale= 48028

2233×10^4
$- 287 \times 10^4$
1946×10^4
$- 36 \times 10^4$
1910×10^4

~~22~~

2233
$- 36$
2197×10^4



$\frac{287}{2197} \times 100 = 13\%$

Comp. peak @ 10.4 min is ~13% of total product

LANCASTER LABORATORIES

3001161 51 Processed: 09-23-1998 12:29:59, segment 2, cycle 28
End of sequence file reached at cycle 28
RAW DATA SAVED IN FILE J:J26428.PTS

***** EXTERNAL STANDARD TABLE *****

********** 09-23-1998 12:30:01 Version 5.1 **********

* Sample Name: 3001161 5100 PPM Data File: J:J26428 *
* Date: 09-23-1998 11:53:14 Method: J:LWS 08-14-1998 17:00:41 # 48 *
* Interface: 2 Cycle#: 28 Operator RGB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

Starting Delay: 0.00 Ending retention time: 35.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in PPM	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	0.500		260.7378	4.2749%	2607378	878073	3.0	OV			1.0000E-04
2	0.967		1.2283	0.0201%	12283	4823	2.5	1			1.0000E-04
3	1.717		0.8864	0.0145%	8864	1534	5.8	2			1.0000E-04
4	1.950	CHLOROBENZENE	0.6774	0.0111%	4630	893	5.2	2	4	0	1.4632E-04
5	2.800		0.7965	0.0131%	7965	1105	7.2	1			1.0000E-04
6	3.083		1.0240	0.0168%	10240	1549	6.6	2			1.0000E-04
7	3.350		2.1222	0.0348%	21222	6110	3.5	2			1.0000E-04
8	3.533		0.8955	0.0147%	8956	1790	5.0	1			1.0000E-04
9	3.767		0.8821	0.0145%	8821	1818	4.9	1			1.0000E-04
10	3.917		0.8784	0.0144%	8784	3667	2.4	1			1.0000E-04
11	4.133		0.6601	0.0108%	6601	2852	2.3	1			1.0000E-04
12	4.383		9.6355	0.1580%	96355	5461	17.6	2			1.0000E-04
13	4.867		5.7042	0.0935%	57042	11566	4.9	2			1.0000E-04
14	5.000		7.7754	0.1275%	77754	31215	2.5	2			1.0000E-04
15	5.233		3.6619	0.0600%	36619	11123	3.3	2			1.0000E-04
16	5.367		7.1089	0.1166%	71089	17657	4.0	2			1.0000E-04
17	5.483		12.8485	0.2107%	128485	19102	6.7	2			1.0000E-04
18	5.800		9.4928	0.1556%	94928	20604	4.6	2			1.0000E-04
19	6.017		8.0779	0.1324%	80779	13539	6.0	2			1.0000E-04
20	6.233		10.0077	0.1641%	100077	12401	8.1	2			1.0000E-04
21	6.350		5.5534	0.0911%	55534	9519	5.8	2			1.0000E-04
22	6.550		24.7578	0.4059%	247578	62921	3.9	2			1.0000E-04
23	6.983		4.5116	0.0740%	45116	9829	4.6	2			1.0000E-04
24	7.500		23.1634	0.3798%	231634	11219	20.6	2			1.0000E-04
25	7.883		7.4683	0.1224%	74683	11800	6.3	2			1.0000E-04
26	8.000		12.1347	0.1990%	121347	42861	2.8	2			1.0000E-04
27	8.200		6.6410	0.1089%	66410	23620	2.8	2			1.0000E-04
28	8.433		9.2376	0.1515%	92377	8115	11.4	2			1.0000E-04
29	8.650		3.7099	0.0608%	37099	9651	3.8	2			1.0000E-04
30	8.733		8.4151	0.1380%	84151	14712	5.7	2			1.0000E-04
31	8.900		29.3245	0.4808%	293245	18800	15.6	2			1.0000E-04
32	9.350		9.3057	0.1526%	93057	21509	4.3	2			1.0000E-04
33	9.450		9.5842	0.1571%	95842	19392	4.9	2			1.0000E-04
34	9.550		16.4121	0.2691%	164121	20033	8.2	2			1.0000E-04
35	9.700		44.6674	0.7323%	446674	26895	16.6	2			1.0000E-04
36	10.183		87.9226	1.4415%	879226	151170	5.8	2			1.0000E-04
37	10.333		22.8888	0.3753%	228888	42455	5.4	2			1.0000E-04
38	10.500		745.2738	12.2192%	7452739	970828	7.7	OV			1.0000E-04
39	10.767		27.4790	0.4505%	274790	50485	5.4	4			1.0000E-04
40	10.900		38.1502	0.6255%	381502	52479	7.3	4			1.0000E-04
41	11.083		55.5253	0.9104%	555253	61362	9.0	4			1.0000E-04
42	11.183		78.5805	[illegible]	[illegible]	[illegible]					

41	11.050		33.9250	0.7104%	339250	61302	7.0	4			1.0000E-04
42	11.183		38.5885	0.6327%	385885	83849	4.6	4			1.0000E-04
43	11.267		46.7946	0.7672%	467946	78377	6.0	4			1.0000E-04
44	11.367		67.5384	1.1073%	675384	78297	8.6	4			1.0000E-04
45	11.517		38.6919	0.6344%	386919	72119	5.4	4			1.0000E-04
46	11.600		54.7393	0.8975%	547393	77413	7.1	2			1.0000E-04
47	11.717		42.3215	0.6939%	423215	75917	5.6	2			1.0000E-04
48	11.817		163.6477	2.6831%	1636477	99321	16.5	2			1.0000E-04
49	12.150		60.5969	0.9935%	605970	96514	6.3	2			1.0000E-04
50	12.267		186.2719	3.0540%	1862719	130927	14.2	2			1.0000E-04
51	12.550		90.1186	1.4775%	901186	117505	7.7	2			1.0000E-04
52	12.667		83.7390	1.3729%	837390	96106	8.7	2			1.0000E-04
53	12.850		100.0000	1.6396%	1000000	129749	7.7	2			1.0000E-04
54	12.933		216.8737	3.5558%	2168738	171710	12.6	2			1.0000E-04
55	13.217		140.5906	2.3051%	1405906	113583	12.4	2			1.0000E-04
56	13.467		437.7559	7.1772%	4377559	176213	24.8	2			1.0000E-04
57	14.017		240.3896	3.9413%	2403897	217143	11.1	2			1.0000E-04
58	14.267		143.6480	2.3552%	1436480	113956	12.6	2			1.0000E-04
59	14.467		70.0229	1.1481%	700229	109142	6.4	2			1.0000E-04
60	14.567		256.9904	4.2135%	2569904	114558	22.4	2			1.0000E-04
61	15.033		60.3174	0.9889%	603174	137433	4.4	2			1.0000E-04
62	15.133	o-TERPHENYL	87.7481	1.4387%	2475004	127311	19.4	2	4	0	3.5454E-05
63	15.800		38.9595	0.6388%	389595	42910	9.1	2			1.0000E-04
64	16.000		161.1293	2.6418%	1611293	62234	25.9	2			1.0000E-04
65	16.933		42.2450	0.6926%	422450	30524	13.8	2			1.0000E-04
66	17.317		22.0017	0.3607%	220017	19191	11.5	2			1.0000E-04
67	17.517		9.9014	0.1623%	99014	19562	5.1	2			1.0000E-04
68	17.617		23.1297	0.3792%	231297	19456	11.9	2			1.0000E-04
69	17.833		27.7405	0.4548%	277405	19221	14.4	2			1.0000E-04
70	18.183		19.6558	0.3223%	196558	20316	9.7	2			1.0000E-04
71	18.333		12.7815	0.2096%	127815	19786	6.5	2			1.0000E-04
72	18.433		30.5427	0.5008%	305427	20239	15.1	2			1.0000E-04
73	19.000		39.7851	0.6523%	397851	25436	15.6	2			1.0000E-04
74	19.283		27.1018	0.4443%	271018	18093	15.0	2			1.0000E-04
75	19.667		24.9146	0.4085%	249146	17181	14.5	2			1.0000E-04
76	19.817		27.7973	0.4558%	277974	19175	14.5	2			1.0000E-04
77	20.067		18.7833	0.3080%	187833	15393	12.2	2			1.0000E-04
78	20.300		23.6140	0.3872%	236140	17705	13.3	2			1.0000E-04
79	20.617		10.1318	0.1661%	101318	16946	6.0	2			1.0000E-04
80	20.683		12.6537	0.2075%	126537	17202	7.4	2			1.0000E-04
81	20.817		6.4202	0.1053%	64202	11744	5.5	2			1.0000E-04
82	20.900		11.7982	0.1934%	117982	15628	7.5	2			1.0000E-04
83	21.133		27.6214	0.4529%	276214	18638	14.8	2			1.0000E-04
84	21.467		29.6506	0.4861%	296506	18547	16.0	2			1.0000E-04
85	21.750		16.0266	0.2628%	160266	17246	9.3	2			1.0000E-04
86	21.833		17.2420	0.2827%	172420	23599	7.3	2			1.0000E-04
87	22.217		81.3444	1.3337%	813444	23873	34.1	2			1.0000E-04
88	22.767		28.8084	0.4723%	288084	25843	11.1	2			1.0000E-04
89	23.117		51.7456	0.8484%	517456	23058	22.4	2			1.0000E-04
90	23.417		45.7404	0.7499%	457404	32297	14.2	2			1.0000E-04
91	23.650		34.8208	0.5709%	348208	31693	11.0	2			1.0000E-04
92	23.983		58.0463	0.9517%	580463	31543	18.4	2			1.0000E-04
93	24.233		17.5786	0.2882%	175786	28798	6.1	2			1.0000E-04
94	24.367		37.4013	0.6132%	374013	34460	10.9	2			1.0000E-04
95	24.567		31.3299	0.5137%	313300	43217	7.2	2			1.0000E-04
96	24.700		28.4611	0.4666%	284611	30145	9.4	2			1.0000E-04
97	24.983		43.5825	0.7146%	435825	32046	13.6	2			1.0000E-04
98	25.100		37.8403	0.6204%	378403	38565	9.8	2			1.0000E-04
99	25.317		27.2290	0.4464%	272290	29558	9.2	2			1.0000E-04
100	25.533		42.0722	0.6898%	420722	29951	14.0	2			1.0000E-04
101	25.717		24.7173	0.4053%	247173	36662	6.7	2			1.0000E-04
102	25.833		80.5099	1.3200%	805099	37545	21.4	2			1.0000E-04
103	26.300		35.3854	0.5802%	353854	34629	10.2	2			1.0000E-04
104	26.517		34.0746	0.5587%	340746	32480	10.5	2			1.0000E-04
105	26.817		37.7290	0.6186%	377290	35495	10.6	2			1.0000E-04
106	26.883		37.9570	0.6223%	379570	37232	10.2	2			1.0000E-04
107	27.383		75.5068	1.2380%	755068	41621	18.1	2			1.0000E-04

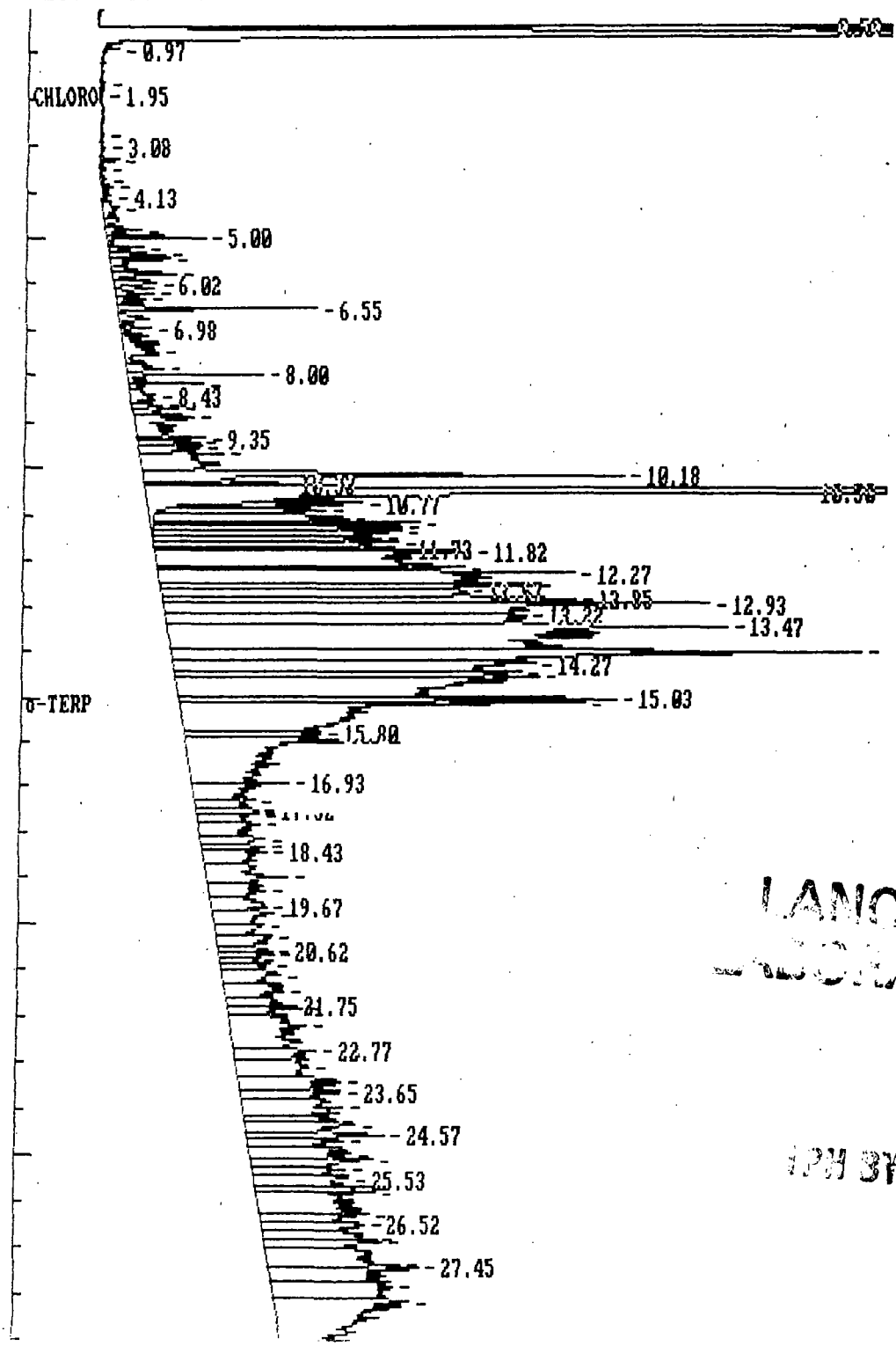
LANCASTER LABORATORIES

GC/FID

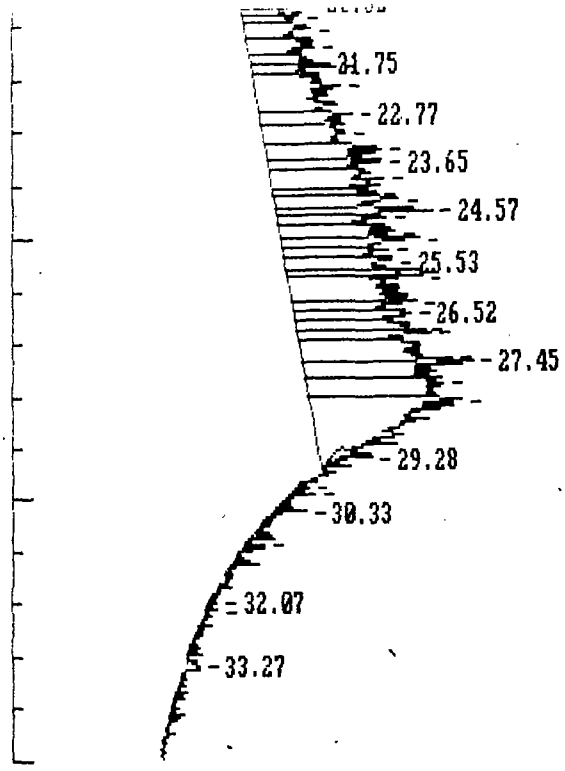
107	27.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
108	27.450	73.3584	1.2027%	733584	47181	15.5	2	1.0000E-04
109	27.867	79.2447	1.2993%	792447	38147	20.8	2	1.0000E-04
110	28.200	167.9579	2.7538%	1679579	42603	39.4	3	1.0000E-04
111	29.283	8.6473	0.1418%	86473	11567	7.5	4	1.0000E-04
112	29.867	2.0164	0.0331%	20164	3472	5.8	2	1.0000E-04
113	30.000	4.8132	0.0789%	48132	7314	6.6	2	1.0000E-04
114	30.333	7.2212	0.1184%	72212	9346	7.7	1	1.0000E-04
115	30.967	6.4166	0.1052%	64166	5751	11.2	1	1.0000E-04
116	32.067	0.9282	0.0152%	9282	2687	3.5	1	1.0000E-04
117	32.200	5.5046	0.0903%	55047	3713	14.8	1	1.0000E-04
118	33.267	4.9973	0.0819%	49973	3947	12.7	1	1.0000E-04

TOTAL AMOUNT : 6099.2271

Data File = J:J26428.PTS Printed on 09-23-1998 at 12:30:38
Start time: 0.00 min. Stop time: 35.00 min. Offset: 0 mv.
Full Range: 250 millivolts



LANCASTER LABORATORIES



LANCASTER
LABORATORIES

TPH BY GC/FID

Total area = 9942 x 10⁴

START TIME= 2.736 START HEIGHT= 13604
STOP TIME= 4.241 STOP HEIGHT= 13604
AREA = 124161
START TIME= 4.241 START HEIGHT= 13604
STOP TIME= 35.017 STOP HEIGHT= 31575
AREA = 9.927202E+07 BASELINE
START TIME= 4.241 START HEIGHT= 13604
STOP TIME= 17.423 STOP HEIGHT= 21306
AREA = 5.099902E+07
START TIME= 17.423 START HEIGHT= 21306
STOP TIME= 34.913 STOP HEIGHT= 31575
AREA = 4.829848E+07

5112×10^4

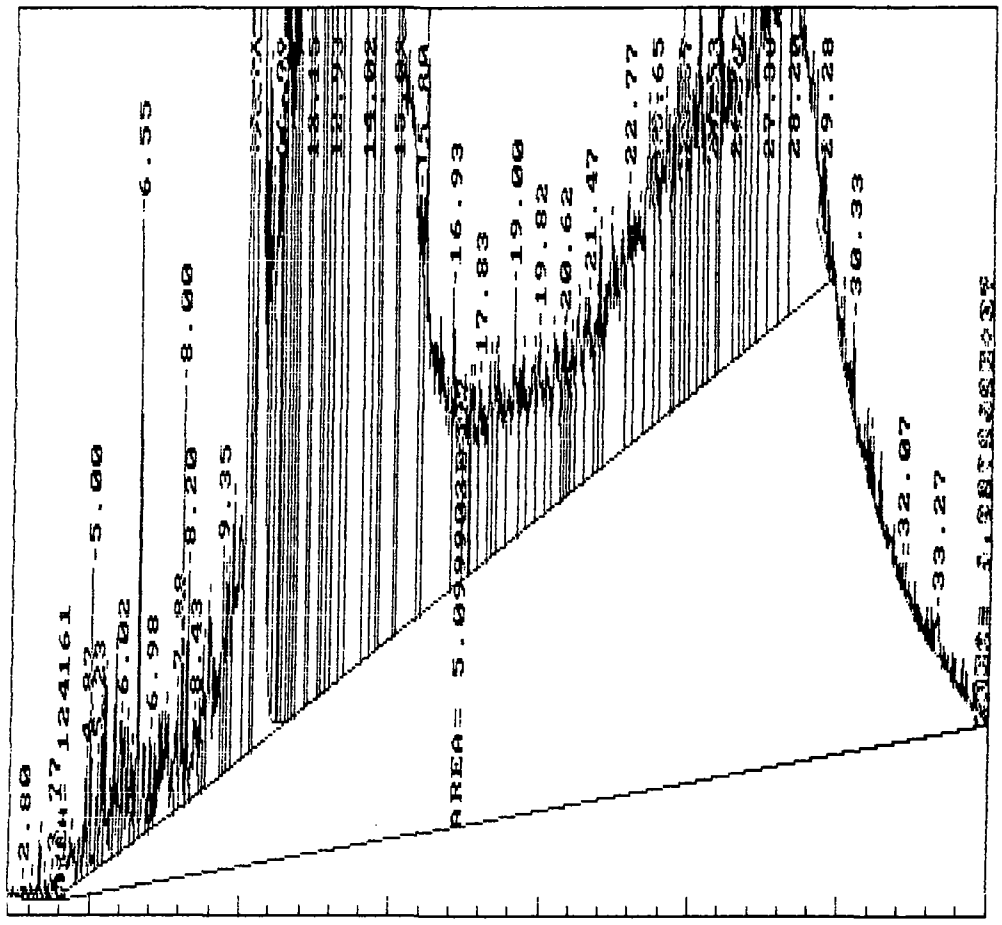
$\frac{5112}{9942} \times 100 = 51.4\%$

4830×10^4

$\frac{4830}{9942} \times 100 = 48.6\%$ ~~x10~~

Plot of data file: J:J26428.PTS
Date: 09-28-1998 Time: 10:12:01
Sample Name: 3001161 5100 PPM
Start Time= 2.22Stop Time = 35.02Min. Scale= 12641Max. Scale= 104424

each @ ~50%



ABORATORIES

J:J20913 Kerosene
SCALE 300
OFFSET 0

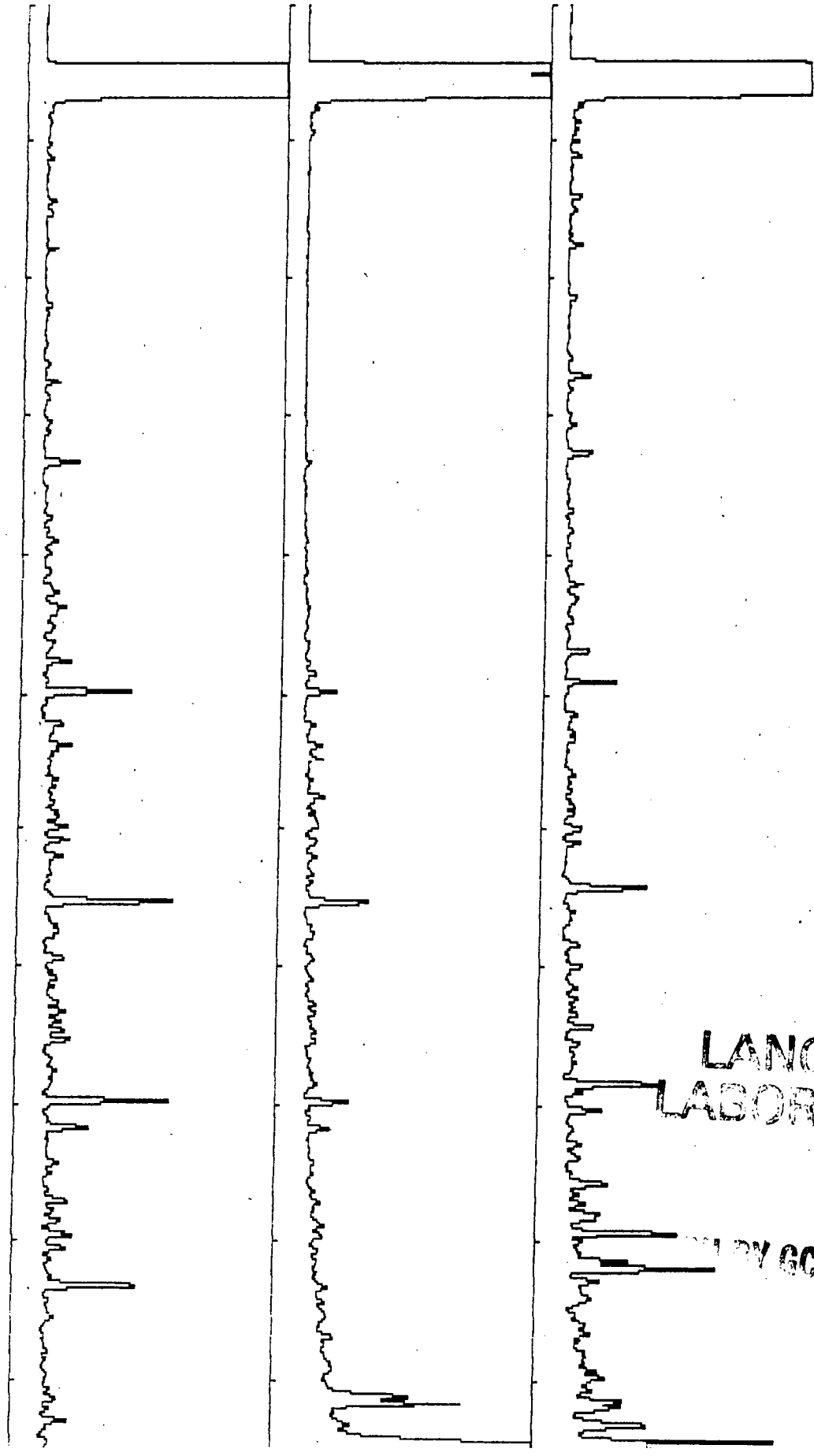
TIME 0.00

J:J26428 300161
SCALE 250
OFFSET 0

TIME 0.00

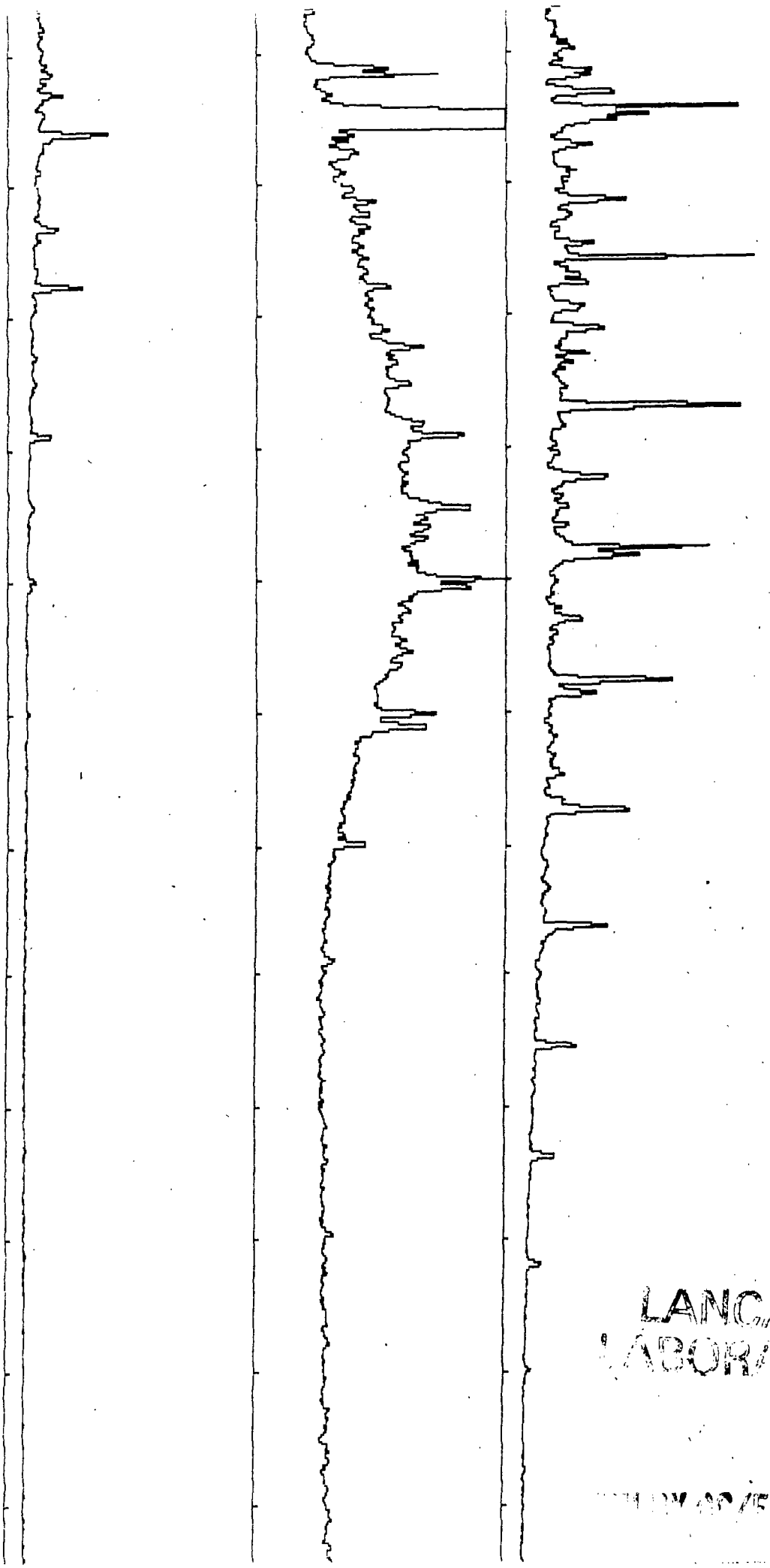
J:J2642 #2 Fuel
SCALE 250
OFFSET 0

TIME 0.00



LANCASTER
LABORATORIES

BY GC/FID



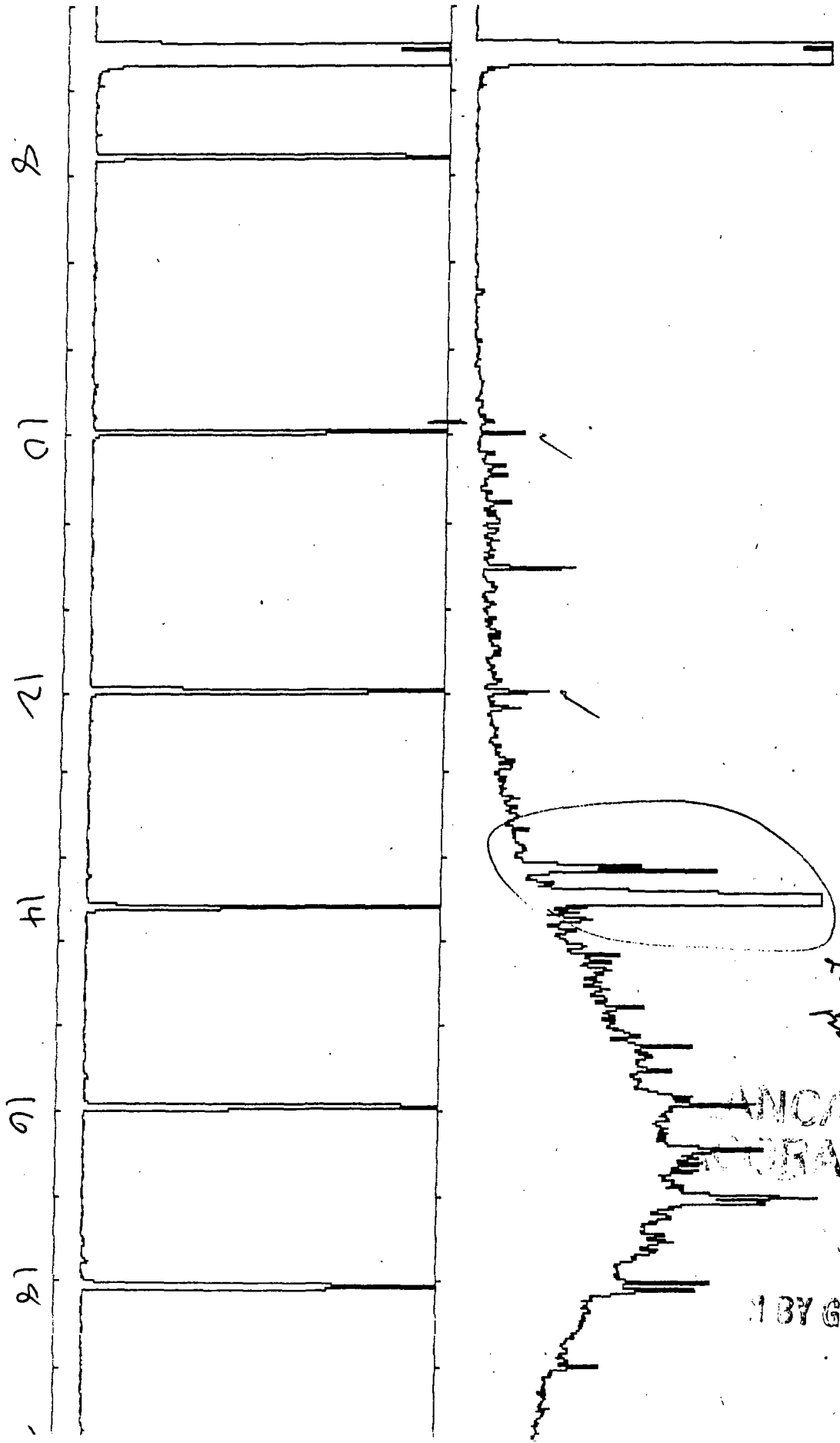
LANCASTER
LABORATORIES

J:J26430 C8-C40 Hyd Std
SCALE 250
OFFSET 0

TIME 0.00

J:J26428 3001161 5100 ppm
SCALE 250
OFFSET 0

TIME 0.00



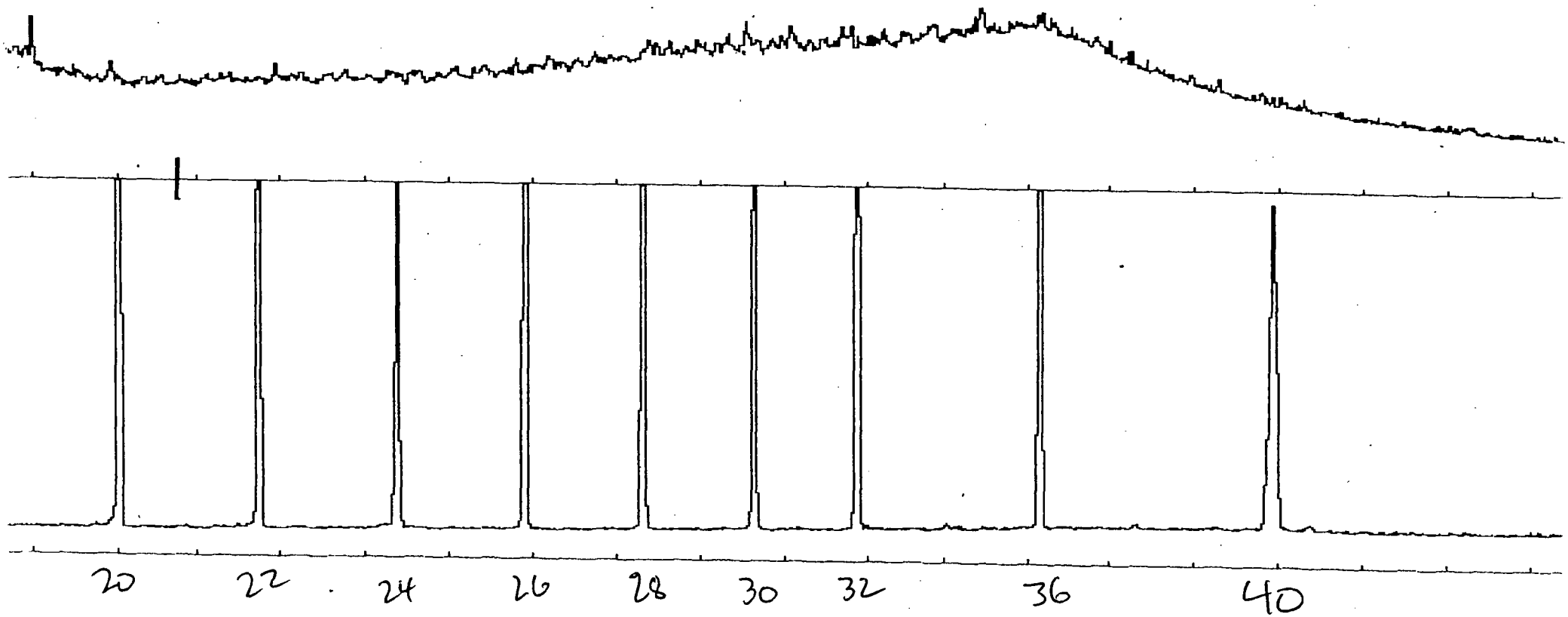
LANCASTER
LABORATORIES

BY GC/FID

LANCASTER LABORATORIES

C10 - C20
C22 - C40

2 distinct patterns



Extraction/Distillation/Digestion Logs

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601-5994

Miscellaneous GC Extraction Batch Log

Batch No. 98262 000 0A

Method: _____ Ext. Date: 9-21-98

LLI Sample #	Sample Code	Date Collected	Date Submitted	Sample Amount ml or g	Final Volume ml	Comments
3001161				0.1065g	10ml	
3001161				0.0510g	10ml	9-22-98

VCS [signature] 9/28/98

Extraction Technicians

RGB/375

Sur. Std.: SS98226B

Matrix Sp.: _____ $MeCl_2$ Lot: BP608

Specials Sp.: _____ Other Solvent Lot: _____

301

Page: 66

1058a Rev. 06/28/94

TPH by GC-FID Data

Sample Data

3001162 DF Processed: 09-22-1998 10:14:20, segment 2, cycle 22
RAW DATA SAVED IN FILE J:J26422.PTS

***** EXTERNAL STANDARD TABLE *****

********** 09-22-1998 10:14:22 Version 5.1 **********
* Sample Name: 3001162 DF50 Data File: J:J26422 *
* Date: 09-22-1998 09:35:07 Method: J:LWS 08-14-1998 17:00:41 # 48 *
* Interface: 2 Cycle#: 22 Operator RGB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *
****

Starting Delay: 0.00
Area reject: 0
Amount injected: 1.00
Sample Weight: 1.00000

Ending retention time: 35.00
One sample per 1.000 sec.
Dilution factor: 1.00

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in PPM	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	0.483		234.0298	8.7061%	2340299	868285	2.7	OV			1.0000E-04
2	0.900		6.3139	0.2349%	63139	27323	2.3	1			1.0000E-04
3	1.400		8.2523	0.3070%	82523	33952	2.4	1			1.0000E-04
4	1.983	CHLOROBENZENE	3.4434	0.1281%	53907	7525	7.2	1	4	0	6.3877E-05
5	2.367		1.6336	0.0608%	16336	4746	3.4	2			1.0000E-04
6	2.567		1.1945	0.0444%	11945	3916	3.1	2			1.0000E-04
7	2.717		5.2736	0.1962%	52736	18682	2.8	2			1.0000E-04
8	3.033		0.8822	0.0328%	8822	1501	5.9	1			1.0000E-04
9	4.000		1.4959	0.0556%	14959	4015	3.7	1			1.0000E-04
10	4.367		1.1113	0.0413%	11113	5672	2.0	2			1.0000E-04
11	4.833		2.6810	0.0997%	26810	6597	4.1	2			1.0000E-04
12	5.433		3.4560	0.1286%	34560	3874	8.9	2			1.0000E-04
13	6.167		154.1698	5.7353%	1541698	580763	2.7	2			1.0000E-04
14	6.883		1.5901	0.0592%	15901	4367	3.6	2			1.0000E-04
15	7.367		2.3845	0.0887%	23845	6935	3.4	2			1.0000E-04
16	7.617		2.3371	0.0869%	23371	6650	3.5	2			1.0000E-04
17	7.800		2.2204	0.0826%	22204	4716	4.7	2			1.0000E-04
18	7.983		1.9405	0.0722%	19405	1830	10.6	2			1.0000E-04
19	8.600		3.6840	0.1370%	36841	9170	4.0	1			1.0000E-04
20	8.933		2.4087	0.0896%	24087	6556	3.7	1			1.0000E-04
21	9.267		3.3389	0.1242%	33389	6294	5.3	2			1.0000E-04
22	9.417		2.5932	0.0965%	25932	6003	4.3	2			1.0000E-04
23	9.583		0.7539	0.0280%	7539	1937	3.9	1			1.0000E-04
24	9.800		0.7989	0.0297%	7989	1884	4.2	1			1.0000E-04
25	10.050		13.8150	0.5139%	138150	28523	4.8	2			1.0000E-04
26	10.283		9.0701	0.3374%	90701	30796	2.9	2			1.0000E-04
27	10.383		300.8742	11.1928%	3008742	980239	3.1	OV			1.0000E-04
28	10.850		3.2426	0.1206%	32426	4465	7.3	2			1.0000E-04
29	11.033		4.4476	0.1655%	44476	6312	7.0	2			1.0000E-04
30	11.117		2.7644	0.1028%	27644	8157	3.4	2			1.0000E-04
31	11.633		19.6237	0.7300%	196237	8102	24.2	2			1.0000E-04
32	11.733		6.1925	0.2304%	61925	9952	6.2	2			1.0000E-04
33	11.967		6.8818	0.2560%	68819	8195	8.4	2			1.0000E-04
34	12.100		17.0259	0.6334%	170259	12167	14.0	2			1.0000E-04
35	12.500		3.0868	0.1148%	30868	4636	6.7	2			1.0000E-04
36	12.667		6.7153	0.2498%	67153	11905	5.6	2			1.0000E-04
37	12.767		17.0423	0.6340%	170423	9275	18.4	2			1.0000E-04
38	13.283		14.5744	0.5422%	145744	9550	15.3	2			1.0000E-04
39	13.817		4.5192	0.1681%	45192	8754	5.2	2			1.0000E-04
40	13.883		8.8946	0.3309%	88946	10412	8.5	2			1.0000E-04
41	14.367		0.9088	0.0338%	9088	2698	3.4	1			1.0000E-04
42	14.817		1.6081	0.0598%	16081	4206	3.8	2			1.0000E-04
43	14.917		2.9044	0.1080%	29044	7134	4.1	2			1.0000E-04
44	15.183		1.5842	0.0589%	15842	2533	6.3	2			1.0000E-04
45	15.283	o-TERPHENYL	-0.2382	-0.0089%	22046	2444	9.0	2	45	0	-1.0804E-05
46	15.550		4.0208	0.1496%	40208	6763	5.9	2			1.0000E-04

LANCASTER LABORATORIES

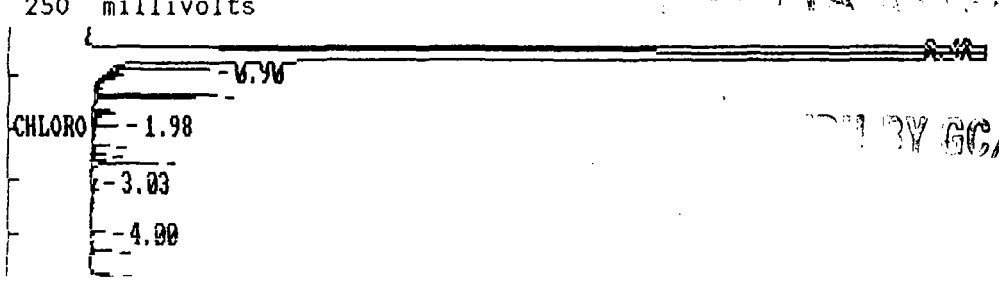
TPH by GC/FID

43	14.917		2.9044	0.1080%	29044	7134	4.1	2		1.0000E-04
44	15.183		1.5842	0.0589%	15842	2533	6.3	2		1.0000E-04
45	15.283	o-TERPHENYL	-0.2382	-0.0089%	22046	2444	9.0	2	45 0	-1.0804E-05
46	15.550		4.0208	0.1496%	40208	6763	5.9	2		1.0000E-04
47	15.800		4.1133	0.1530%	41134	3898	10.6	2		1.0000E-04
48	16.000		0.9493	0.0353%	9493	2018	4.7	2		1.0000E-04
49	16.267		1.1228	0.0418%	11228	2254	5.0	2		1.0000E-04
50	16.367		2.8075	0.1044%	28075	3283	8.6	2		1.0000E-04
51	16.800		3.5648	0.1326%	35648	3182	11.2	2		1.0000E-04
52	17.267		5.2527	0.1954%	52527	5551	9.5	2		1.0000E-04
53	17.383		3.9871	0.1483%	39871	7640	5.2	2		1.0000E-04
54	17.500		3.4408	0.1280%	34408	6877	5.0	2		1.0000E-04
55	17.583		7.0000	0.2604%	70000	7394	9.5	2		1.0000E-04
56	17.883		11.7016	0.4353%	117016	8183	14.3	2		1.0000E-04
57	18.517		38.5817	1.4353%	385817	12682	30.4	2		1.0000E-04
58	18.733		31.1627	1.1593%	311628	17016	18.3	2		1.0000E-04
59	19.050		19.9132	0.7408%	199132	18850	10.6	2		1.0000E-04
60	19.333		34.9767	1.3012%	349767	22864	15.3	2		1.0000E-04
61	19.767		69.7864	2.5961%	697864	24928	28.0	2		1.0000E-04
62	20.100		43.7823	1.6287%	437823	29385	14.9	2		1.0000E-04
63	20.333		46.5141	1.7304%	465141	30037	15.5	2		1.0000E-04
64	20.633		27.3650	1.0180%	273650	29750	9.2	2		1.0000E-04
65	20.783		22.1058	0.8224%	221058	30568	7.2	2		1.0000E-04
66	20.850		35.2194	1.3102%	352194	33478	10.5	2		1.0000E-04
67	21.050		69.0539	2.5689%	690539	34462	20.0	2		1.0000E-04
68	21.400		23.3350	0.8681%	233350	31073	7.5	2		1.0000E-04
69	21.917		151.2684	5.6273%	1512684	39350	38.4	2		1.0000E-04
70	22.283		48.7467	1.8134%	487467	35555	13.7	2		1.0000E-04
71	22.517		117.9506	4.3879%	1179506	35584	33.1	2		1.0000E-04
72	23.117		46.9539	1.7467%	469539	36254	13.0	2		1.0000E-04
73	23.333		43.0985	1.6033%	430985	37889	11.4	2		1.0000E-04
74	23.517		40.8744	1.5206%	408744	34503	11.8	2		1.0000E-04
75	23.717		34.1265	1.2695%	341265	32812	10.4	2		1.0000E-04
76	23.917		24.7409	0.9204%	247409	34782	7.1	2		1.0000E-04
77	24.017		41.2569	1.5348%	412569	35879	11.5	2		1.0000E-04
78	24.217		110.1499	4.0977%	1101499	39469	27.9	2		1.0000E-04
79	24.767		59.6887	2.2205%	596887	35763	16.7	2		1.0000E-04
80	25.367		86.8112	3.2295%	868113	33249	26.1	2		1.0000E-04
81	25.967		145.6295	5.4175%	1456295	29743	49.0	2		1.0000E-04
82	26.567		44.3663	1.6505%	443663	25960	17.1	2		1.0000E-04
83	26.800		26.2073	0.9749%	262073	23324	11.2	2		1.0000E-04
84	27.083		82.3192	3.0623%	823192	25713	32.0	2		1.0000E-04
85	27.683		164.1009	6.1047%	1641009	22198	73.9	3		1.0000E-04
86	30.100		4.9413	0.1838%	49413	2253	21.9	4		1.0000E-04
87	31.100		1.8504	0.0688%	18504	2548	7.3	2		1.0000E-04
88	31.617		2.5051	0.0932%	25051	2365	10.6	2		1.0000E-04
89	32.150		0.2204	0.0082%	2204	1521	1.4	1		1.0000E-04
90	32.383		2.2199	0.0826%	22199	1768	12.6	2		1.0000E-04
91	32.783		3.5047	0.1304%	35047	1903	18.4	2		1.0000E-04
92	33.900		0.4703	0.0175%	4703	1601	2.9	1		1.0000E-04
93	34.550		0.8260	0.0307%	8260	2276	3.6	1		1.0000E-04

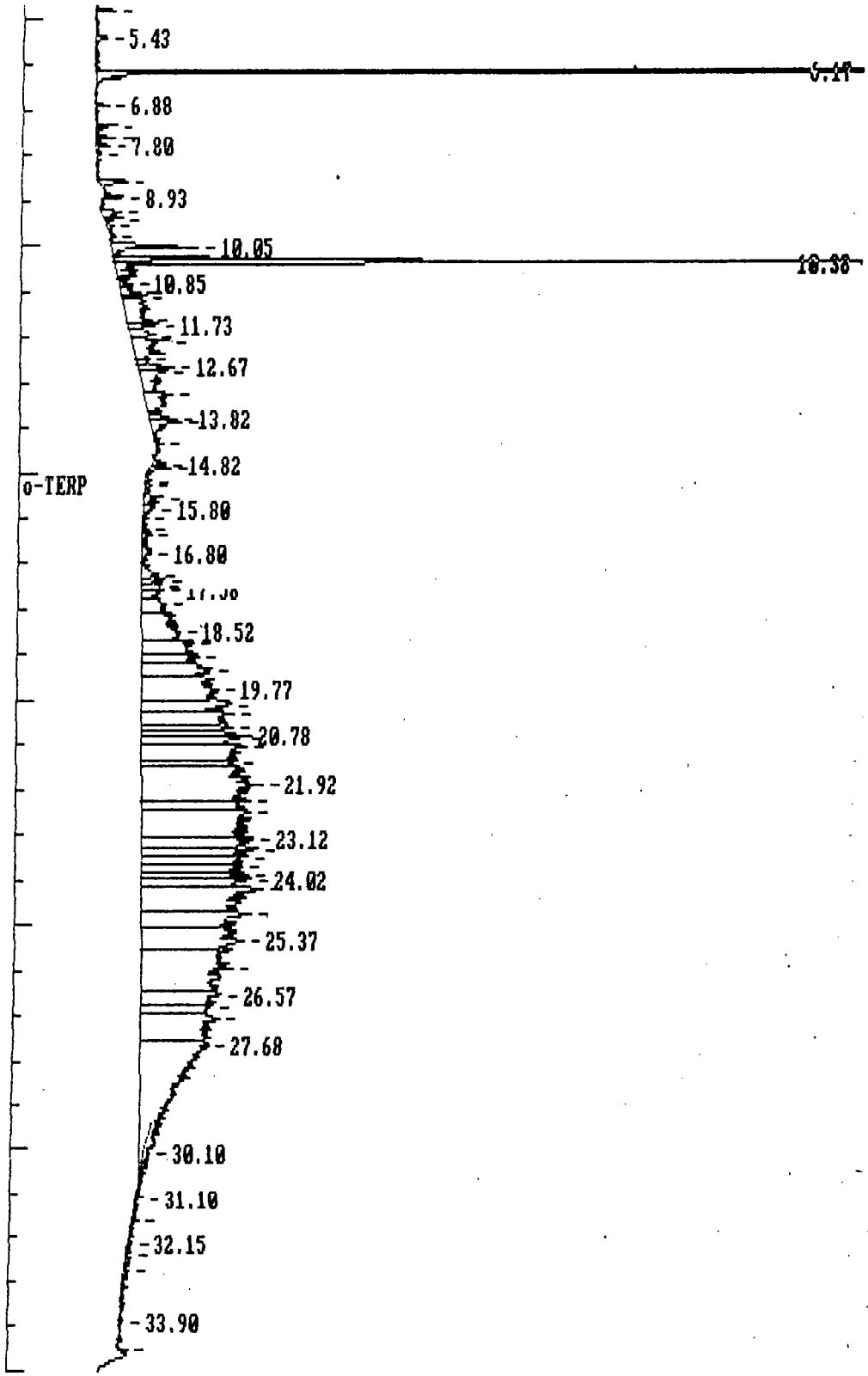
TOTAL AMOUNT : 2688.1094

Data File = J:J26422.PTS Printed on 09-22-1998 at 10:14:45
Start time: 0.00 min. Stop time: 35.00 min. Offset: 0 mv
Full Range: 250 millivolts

LANCASTER LABORATORIES



BY GC/FID



LANCASTER
ORIES

BY GC/FID

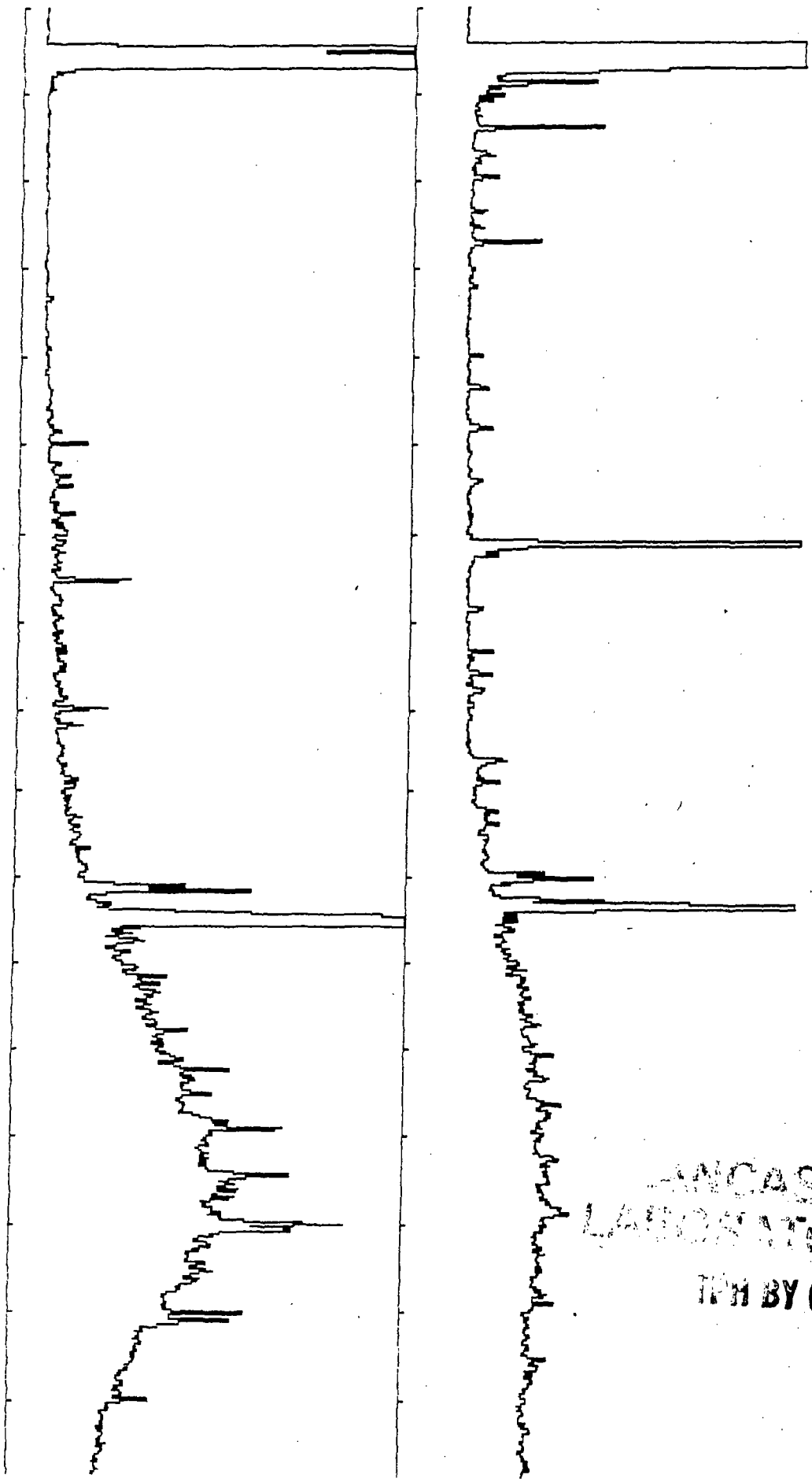
Reference

J:J26428 3001161
SCALE 300
OFFSET 0

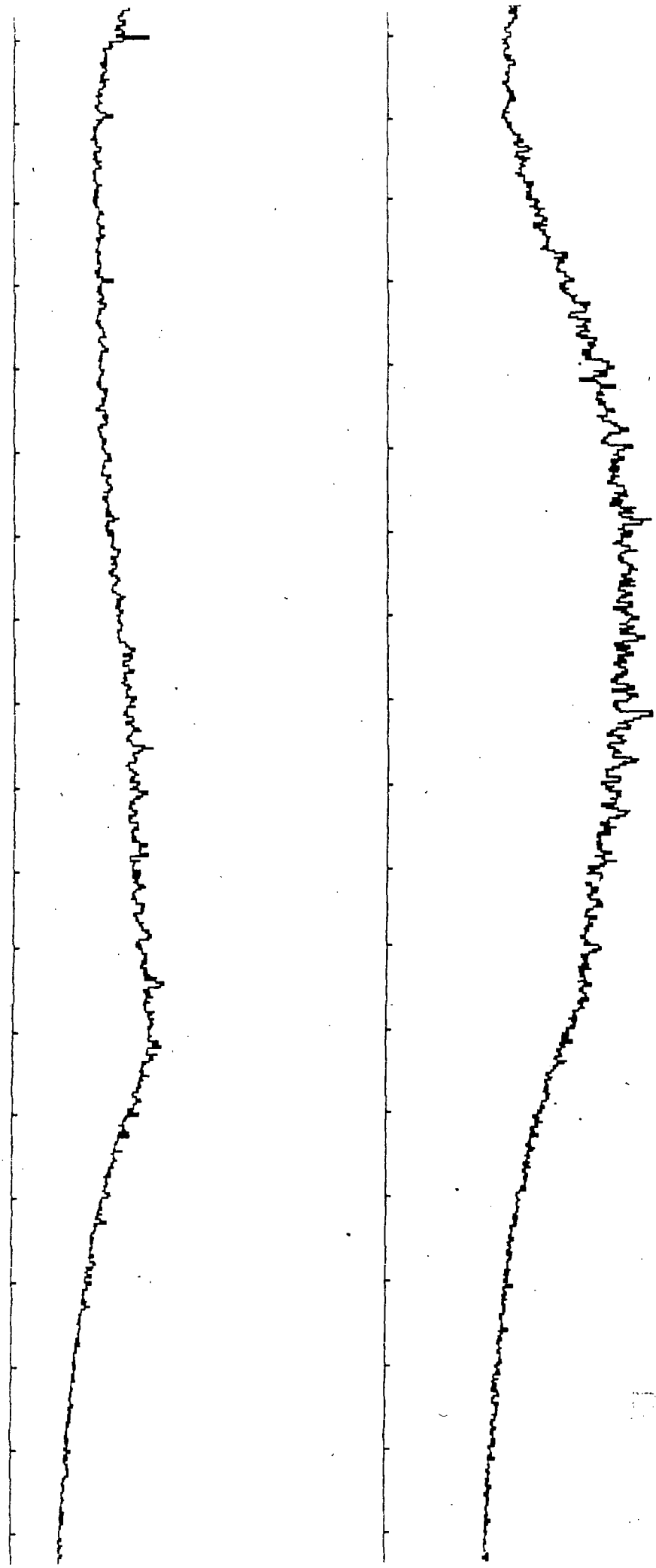
TIME 0.00

J:J26422 3001162 DF50
SCALE 100
OFFSET 0

TIME 0.00



LANCASTER
LABORATORIES
TPH BY GC/FID



LANCASTER
LABORATORIES

BY GC/FID

Total area = 3862×10^4

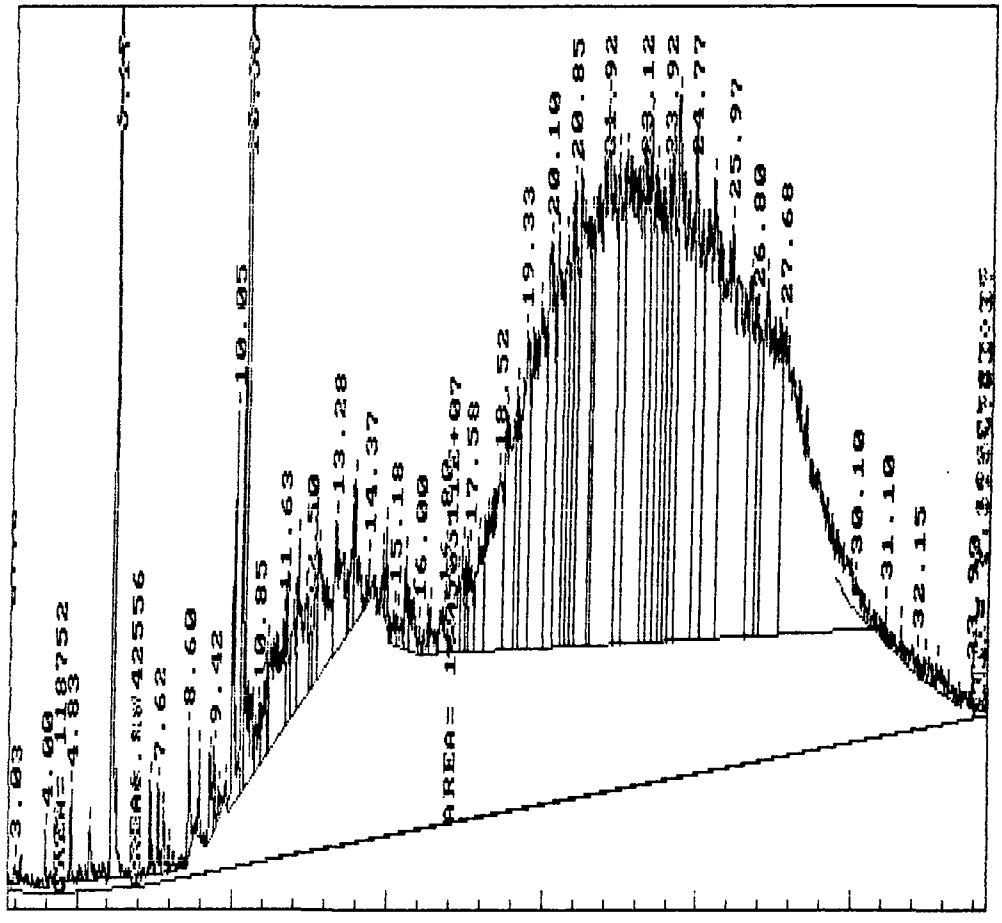
START TIME= 2.767 START HEIGHT= 12195
STOP TIME= 4.622 STOP HEIGHT= 11966
AREA = 118752
START TIME= 4.622 START HEIGHT= 11966
STOP TIME= 7.078 STOP HEIGHT= 12424
AREA = 1742556
START TIME= 7.078 START HEIGHT= 12424
STOP TIME= 34.350 STOP HEIGHT= 25032
AREA = 3.685476E+07 BASELINE
START TIME= 7.078 START HEIGHT= 12424
STOP TIME= 17.205 STOP HEIGHT= 17238
AREA = 1.050511E+07

1237×10^4 $\quad \frac{1237}{3862} \times 100 = 32\%$

START TIME= 17.205 START HEIGHT= 17238
STOP TIME= 34.300 STOP HEIGHT= 25032
AREA = 2.624577E+07

2625×10^4 $\quad \frac{2625}{3862} \times 100 = 68\%$

Plot of data file: J:J26422.PTS
Date: 09-28-1998 Time: 10:16:23
Sample Name: 3001162 DF50
Start Time= 2.72Stop Time = 34.40Min. Scale= 11278Max. Scale= 76837



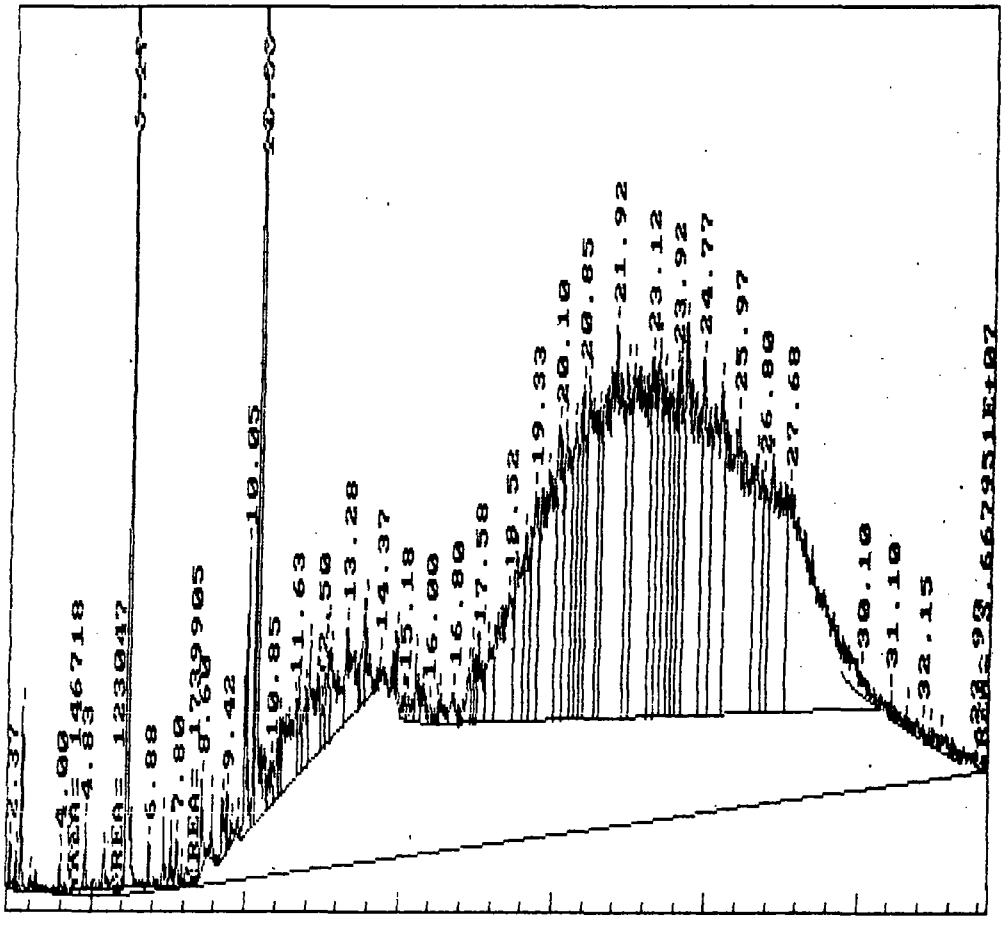
LANCASTER
LABORATORIES
GC/FID

TIME 35.00 TIME 35.00

START TIME= 2.268 START HEIGHT= 12867
STOP TIME= 4.606 STOP HEIGHT= 12232
AREA = 146718
START TIME= 4.606 START HEIGHT= 12232
STOP TIME= 6.029 STOP HEIGHT= 12232
AREA = 123047
START TIME= 6.029 START HEIGHT= 12232
STOP TIME= 8.519 STOP HEIGHT= 13185
AREA = 1739905
START TIME= 8.519 START HEIGHT= 13185
STOP TIME= 34.283 STOP HEIGHT= 24946
AREA = 3.667951E+07

3869×10^4

Plot of data file: J:J26422.PTS
Date: 09-24-1998 Time: 10:47:50
Sample Name: 3001162 DF50
Start Time= 2.17Stop Time = 34.28Min. Scale= 11278Max. Scale= 102187



TPH BY GC/FID

3001163 DF Processed: 09-22-1998 11:08:44, segment 3, cycle 23
RAW DATA SAVED IN FILE J:J26423.PTS

***** EXTERNAL STANDARD TABLE *****

********** 09-22-1998 11:08:45 Version 5.1 **********
* Sample Name: 3001163 DF100 Data File: J:J26423 *
* Date: 09-22-1998 10:27:56 Method: J:LWS 08-14-1998 17:00:41 # 48 *
* Interface: 2 Cycle#: 23 Operator RGB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *
****

Starting Delay: 0.00 Ending retention time: 35.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in PPM	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	0.483		221.0674	1.8651%	2210674	880428	2.5	OV			1.0000E-04
2	0.900		1.1167	0.0094%	11167	6787	1.6	1			1.0000E-04
3	3.300		1.1013	0.0093%	11014	1077	10.2	1			1.0000E-04
4	4.267		0.5078	0.0043%	5078	1243	4.1	1			1.0000E-04
5	4.800		0.8743	0.0074%	8743	1467	6.0	1			1.0000E-04
6	4.933		4.6116	0.0389%	46116	3057	15.1	2			1.0000E-04
7	6.350		2.7345	0.0231%	27345	11651	2.3	2			1.0000E-04
8	6.483		1.3381	0.0113%	13381	4571	2.9	1			1.0000E-04
9	6.883		0.6222	0.0052%	6222	1057	5.9	1			1.0000E-04
10	7.267		0.8026	0.0068%	8026	1248	6.4	2			1.0000E-04
11	7.600		1.1808	0.0100%	11808	1639	7.2	2			1.0000E-04
12	7.683		1.2256	0.0103%	12256	4844	2.5	2			1.0000E-04
13	7.783		2.3345	0.0197%	23345	8979	2.6	2			1.0000E-04
14	7.900		1.2046	0.0102%	12046	3624	3.3	2			1.0000E-04
15	8.083		0.5310	0.0045%	5310	2493	2.1	1			1.0000E-04
16	8.417		2.8202	0.0238%	28202	4282	6.6	2			1.0000E-04
17	8.533		2.3908	0.0202%	23908	5706	4.2	2			1.0000E-04
18	8.617		5.7140	0.0482%	57140	7880	7.3	2			1.0000E-04
19	9.033		21.3254	0.1799%	213254	13625	15.7	2			1.0000E-04
20	9.117		7.7562	0.0654%	77562	15791	4.9	2			1.0000E-04
21	9.217		8.6325	0.0728%	86325	16809	5.1	2			1.0000E-04
22	9.317		16.9404	0.1429%	169405	34155	5.0	2			1.0000E-04
23	9.417		28.0163	0.2364%	280163	36623	7.6	2			1.0000E-04
24	9.583		32.9751	0.2782%	329751	42591	7.7	2			1.0000E-04
25	9.817		58.7592	0.4957%	587592	54468	10.8	2			1.0000E-04
26	10.000		105.5139	0.8902%	1055139	286960	3.7	2			1.0000E-04
27	10.067		177.9644	1.5014%	1779644	427098	4.2	2			1.0000E-04
28	10.333		1517.0452	12.7989%	15170452	982716	15.4	OV			1.0000E-04
29	10.667		36.1173	0.3047%	361173	92038	3.9	4			1.0000E-04
30	10.783		76.3822	0.6444%	763822	130744	5.8	4			1.0000E-04
31	10.950		148.7598	1.2550%	1487598	170609	8.7	4			1.0000E-04
32	11.050		104.0868	0.8782%	1040868	212167	4.9	4			1.0000E-04
33	11.133		112.9450	0.9529%	1129451	219614	5.1	4			1.0000E-04
34	11.217		198.1210	1.6715%	1981210	222327	8.9	2			1.0000E-04
35	11.367		123.6118	1.0429%	1236118	229133	5.4	2			1.0000E-04
36	11.467		153.7480	1.2971%	1537480	231020	6.7	2			1.0000E-04
37	11.650		316.8405	2.6731%	3168405	268145	11.8	2			1.0000E-04
38	11.917		406.3620	3.4284%	4063620	292573	13.9	2			1.0000E-04
39	11.983		213.1588	1.7984%	2131389	317856	6.7	2			1.0000E-04
40	12.100		674.5325	5.6909%	6745326	428084	15.8	2			1.0000E-04
41	12.383		302.9565	2.5560%	3029565	422330	7.2	2			1.0000E-04
42	12.500		290.6635	2.4523%	2906635	375238	7.7	2			1.0000E-04
43	12.683		436.5404	3.6830%	4365405	568754	7.7	2			1.0000E-04
44	12.767		1007.6492	8.5013%	10076492	486323	20.7	2			1.0000E-04
45	13.133		432.2315	3.6466%	4322315	449496	9.6	2			1.0000E-04
46	13.300		345.6922	2.9165%	3456922	553404	6.2	2			1.0000E-04
47	13.450		449.9231	3.9444%	4499231	490006	9.6	2			1.0000E-04

44	12.767		1007.6492	8.5013%	10076492	486323	20.7	2		1.0000E-04
45	13.133		432.2315	3.6466%	4322315	449496	9.6	2		1.0000E-04
46	13.300		345.6922	2.9165%	3456922	553404	6.2	2		1.0000E-04
47	13.450		469.9231	3.9646%	4699231	490006	9.6	2		1.0000E-04
48	13.550		836.0767	7.0538%	8360767	461988	18.1	2		1.0000E-04
49	13.883		680.3720	5.7401%	6803720	545266	12.5	2		1.0000E-04
50	14.067		475.5179	4.0118%	4755179	410515	11.6	2		1.0000E-04
51	14.267		201.9073	1.7034%	2019073	351505	5.7	2		1.0000E-04
52	14.350		260.0790	2.1942%	2600790	343778	7.6	2		1.0000E-04
53	14.467		584.8020	4.9338%	5848020	317826	18.4	2		1.0000E-04
54	14.900		414.3983	3.4962%	4143983	237887	17.4	2		1.0000E-04
55	15.167	o-TERPHENYL	211.0072	1.7802%	5911329	149064	39.7	3	55	0 3.5695E-05
56	17.550		1.5188	0.0128%	15188	2377	6.4	4		1.0000E-04
57	18.083		3.1100	0.0262%	31100	6847	4.5	1		1.0000E-04
58	18.683		0.3047	0.0026%	3047	1039	2.9	1		1.0000E-04
59	18.900		0.9708	0.0082%	9708	1231	7.9	1		1.0000E-04
60	19.333		0.7704	0.0065%	7704	1293	6.0	1		1.0000E-04
61	19.533		2.4752	0.0209%	24752	4613	5.4	1		1.0000E-04
62	20.000		8.2073	0.0692%	82074	15397	5.3	1		1.0000E-04
63	20.583		1.5860	0.0134%	15860	3182	5.0	2		1.0000E-04
64	20.800		1.8609	0.0157%	18609	4781	3.9	2		1.0000E-04
65	20.917		2.2014	0.0186%	22015	7793	2.8	2		1.0000E-04
66	21.033		3.2635	0.0275%	32635	9236	3.5	2		1.0000E-04
67	21.133		4.7058	0.0397%	47058	9024	5.2	2		1.0000E-04
68	21.817		0.6418	0.0054%	6419	1522	4.2	1		1.0000E-04
69	21.950		1.2646	0.0107%	12646	1839	6.9	2		1.0000E-04
70	22.067		2.5653	0.0216%	25653	6534	3.9	2		1.0000E-04
71	22.217		1.5335	0.0129%	15335	2904	5.3	2		1.0000E-04
72	22.700		1.2833	0.0108%	12833	1826	7.0	2		1.0000E-04
73	23.067		2.6904	0.0227%	26904	2164	12.4	2		1.0000E-04
74	23.167		3.2345	0.0273%	32345	9447	3.4	2		1.0000E-04
75	23.317		2.3920	0.0202%	23920	5490	4.4	2		1.0000E-04
76	23.500		1.3053	0.0110%	13053	2412	5.4	2		1.0000E-04
77	23.733		1.5581	0.0131%	15581	2117	7.4	2		1.0000E-04
78	24.000		0.7498	0.0063%	7499	1385	5.4	1		1.0000E-04
79	24.117		1.1540	0.0097%	11540	2699	4.3	2		1.0000E-04
80	24.217		1.7142	0.0145%	17142	4919	3.5	2		1.0000E-04
81	24.317		0.6284	0.0053%	6284	1573	4.0	2		1.0000E-04
82	24.517		0.4497	0.0038%	4497	1674	2.7	1		1.0000E-04
83	25.417		3.6127	0.0305%	36128	1850	19.5	1		1.0000E-04
84	25.700		0.8372	0.0071%	8372	1603	5.2	1		1.0000E-04
85	26.283		1.2530	0.0106%	12530	1578	7.9	2		1.0000E-04
86	26.467		1.0301	0.0087%	10301	1628	6.3	2		1.0000E-04
87	26.750		4.7278	0.0399%	47278	2696	17.5	2		1.0000E-04
88	27.183		2.5788	0.0218%	25788	2370	10.9	2		1.0000E-04
89	27.667		18.7374	0.1581%	187374	4293	43.6	2		1.0000E-04
90	28.767		1.4405	0.0122%	14405	1983	7.3	2		1.0000E-04
91	30.133		0.3596	0.0030%	3596	1542	2.3	2		1.0000E-04
92	30.267		1.5310	0.0129%	15310	2146	7.1	2		1.0000E-04
93	31.167		2.0738	0.0175%	20738	2535	8.2	1		1.0000E-04
94	31.967		1.5612	0.0132%	15613	1933	8.1	1		1.0000E-04
95	32.367		2.6394	0.0223%	26394	1668	15.8	1		1.0000E-04
96	33.517		0.4806	0.0041%	4806	1324	3.6	1		1.0000E-04
97	33.633		0.5915	0.0050%	5916	1573	3.8	1		1.0000E-04
98	33.917		3.5458	0.0299%	35458	1982	17.9	2		1.0000E-04
99	34.533		10.1829	0.0859%	101829	5780	17.6	2		1.0000E-04

TOTAL AMOUNT : 11852.9131

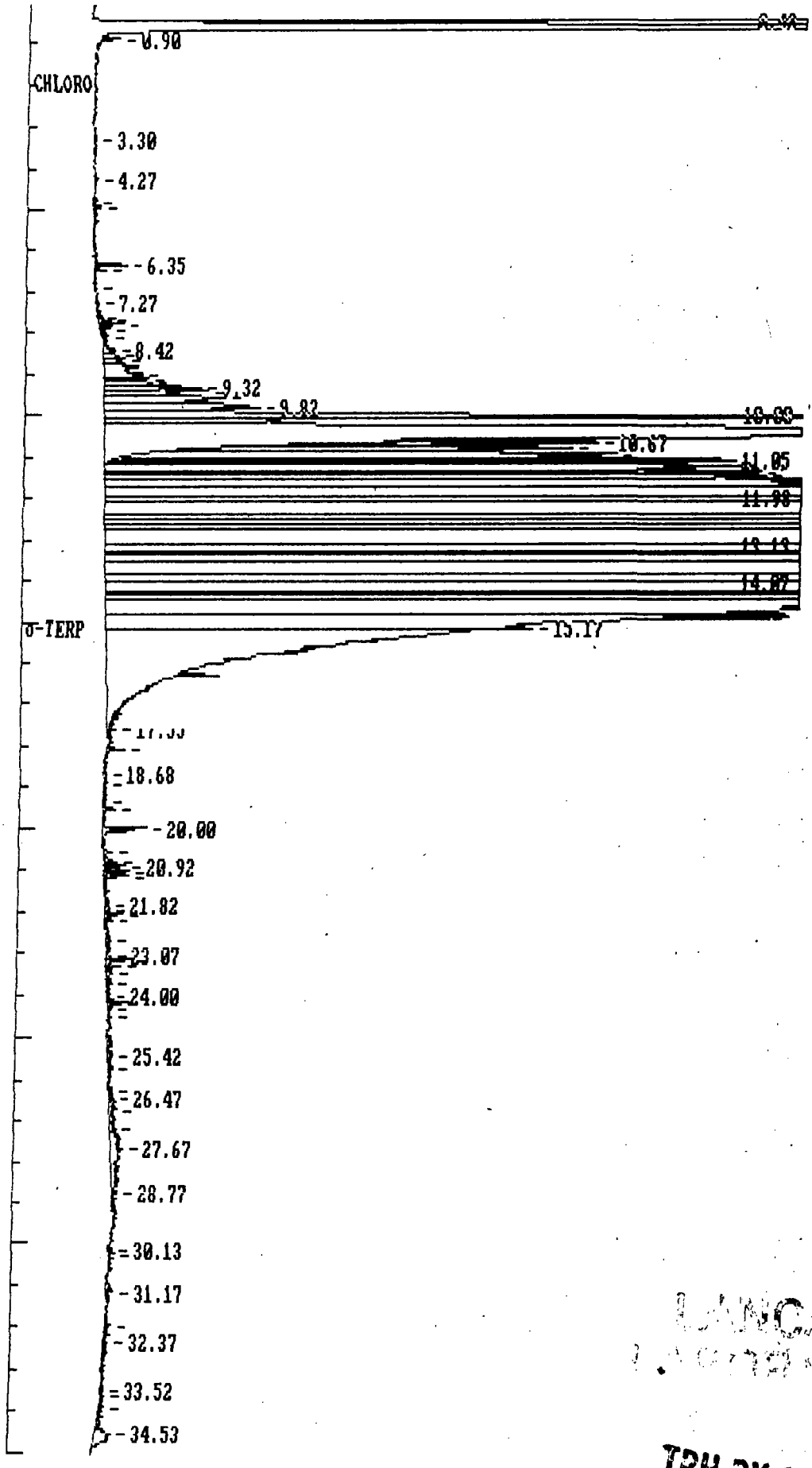
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
CHLOROBENZENE	1.97	CHLOROBENZENE

BY GC/FID

312

Data File = J:J26423.PTS Printed on 09-22-1998 at 11:09:15
Start time: 0.00 min. Stop time: 35.00 min. Offset: 0 mv.
Full Range: 250 millivolts



LANCASTER LABORATORIES

TPH BY GC/FID

3001163 DF Processed: 09-22-1998 12:55:26, segment 5, cycle 25
RAW DATA SAVED IN FILE J:J26425.PTS

***** EXTERNAL STANDARD TABLE *****

********** 09-22-1998 12:55:27 Version 5.1 **********
* Sample Name: 3001163 DF500 Data File: J:J26425 *
* Date: 09-22-1998 12:11:54 Method: J:LWS 08-14-1998 17:00:41 # 48 *
* Interface: 2 Cycle#: 25 Operator RGB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *
****

Starting Delay: 0.00
Area reject: 0
Amount injected: 1.00
Sample Weight: 1.00000

Ending retention time: 35.00
One sample per 1.000 sec.
Dilution factor: 1.00

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in PPM	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	0.483		244.9522	8.6160%	2449523	901139	2.7 OV			1.0000E-04
2	1.250		4.7672	0.1677%	47672	0	0.0 1			1.0000E-04
3	5.967		0.3664	0.0129%	3664	709	5.2 1			1.0000E-04
4	6.367		0.6871	0.0242%	6871	2321	3.0 1			1.0000E-04
5	7.050		0.2279	0.0080%	2279	623	3.7 1			1.0000E-04
6	7.817		1.4424	0.0507%	14425	1978	7.3 1			1.0000E-04
7	7.933		0.6170	0.0217%	6170	1261	4.9 1			1.0000E-04
8	8.667		0.6107	0.0215%	6107	1138	5.4 1			1.0000E-04
9	8.867		1.0032	0.0353%	10032	1641	6.1 1			1.0000E-04
10	9.350		1.3414	0.0472%	13414	4565	2.9 2			1.0000E-04
11	9.450		2.5328	0.0891%	25328	4430	5.7 2			1.0000E-04
12	9.833		11.1248	0.3913%	111248	8797	12.6 2			1.0000E-04
13	10.083		49.0071	1.7238%	490071	117495	4.2 2			1.0000E-04
14	10.333		43.8116	1.5410%	438116	112376	3.9 2			1.0000E-04
15	10.417		545.8673	19.2005%	5458673	984137	5.5 OV			1.0000E-04
16	10.683		13.8535	0.4873%	138535	26020	5.3 4			1.0000E-04
17	10.817		20.3316	0.7152%	203316	29382	6.9 4			1.0000E-04
18	10.967		29.0863	1.0231%	290863	31872	9.1 4			1.0000E-04
19	11.167		33.9275	1.1934%	339275	41601	8.2 4			1.0000E-04
20	11.250		40.8755	1.4378%	408755	41726	9.8 4			1.0000E-04
21	11.400		23.4012	0.8231%	234012	43911	5.3 4			1.0000E-04
22	11.583		60.8035	2.1387%	608035	47815	12.7 4			1.0000E-04
23	11.700		28.6752	1.0086%	286752	50930	5.6 4			1.0000E-04
24	11.917		66.8047	2.3498%	668047	54497	12.3 4			1.0000E-04
25	12.017		52.6035	1.8503%	526035	64679	8.1 2			1.0000E-04
26	12.150		130.5130	4.5907%	1305131	85990	15.2 2			1.0000E-04
27	12.433		122.7973	4.3193%	1227973	85907	14.3 2			1.0000E-04
28	12.717		77.6589	2.7316%	776589	110548	7.0 2			1.0000E-04
29	12.817		52.0980	1.8325%	520980	93932	5.5 2			1.0000E-04
30	12.967		159.2163	5.6003%	1592163	88958	17.9 2			1.0000E-04
31	13.350		134.4691	4.7299%	1344691	110435	12.2 2			1.0000E-04
32	13.500		151.8723	5.3420%	1518723	95880	15.8 2			1.0000E-04
33	13.700		75.1295	2.6426%	751295	87274	8.6 2			1.0000E-04
34	13.950		462.4985	16.2681%	4624985	109788	42.1 2			1.0000E-04
35	14.983		163.3497	5.7457%	1633497	45325	36.0 2			1.0000E-04
36	19.467		1.2584	0.0443%	12584	847	14.9 1			1.0000E-04
37	20.150		1.7656	0.0621%	17656	2772	6.4 1			1.0000E-04
38	20.533		0.3762	0.0132%	3762	1161	3.2 1			[illegible]
39	20.967		0.5301	0.0186%	5301	1295	4.1 2			1.0000E-04
40	21.067		0.5878	0.0207%	5878	1319	4.5 2			1.0000E-04
41	21.183		0.9194	0.0323%	9194	2210	4.2 2			1.0000E-04
42	21.317		0.9623	0.0338%	9623	2364	4.1 2			1.0000E-04
43	21.767		0.6046	0.0213%	6047	832	7.3 1			1.0000E-04
44	22.050		0.2501	0.0088%	2501	875	2.9 1			1.0000E-04
45	22.217		1.6256	0.0572%	16256	1641	9.9 1			1.0000E-04
46	23.350		1.1449	0.0403%	11449	1898	6.0 1			1.0000E-04
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			1.0000E-04

TPH BY GC/FID

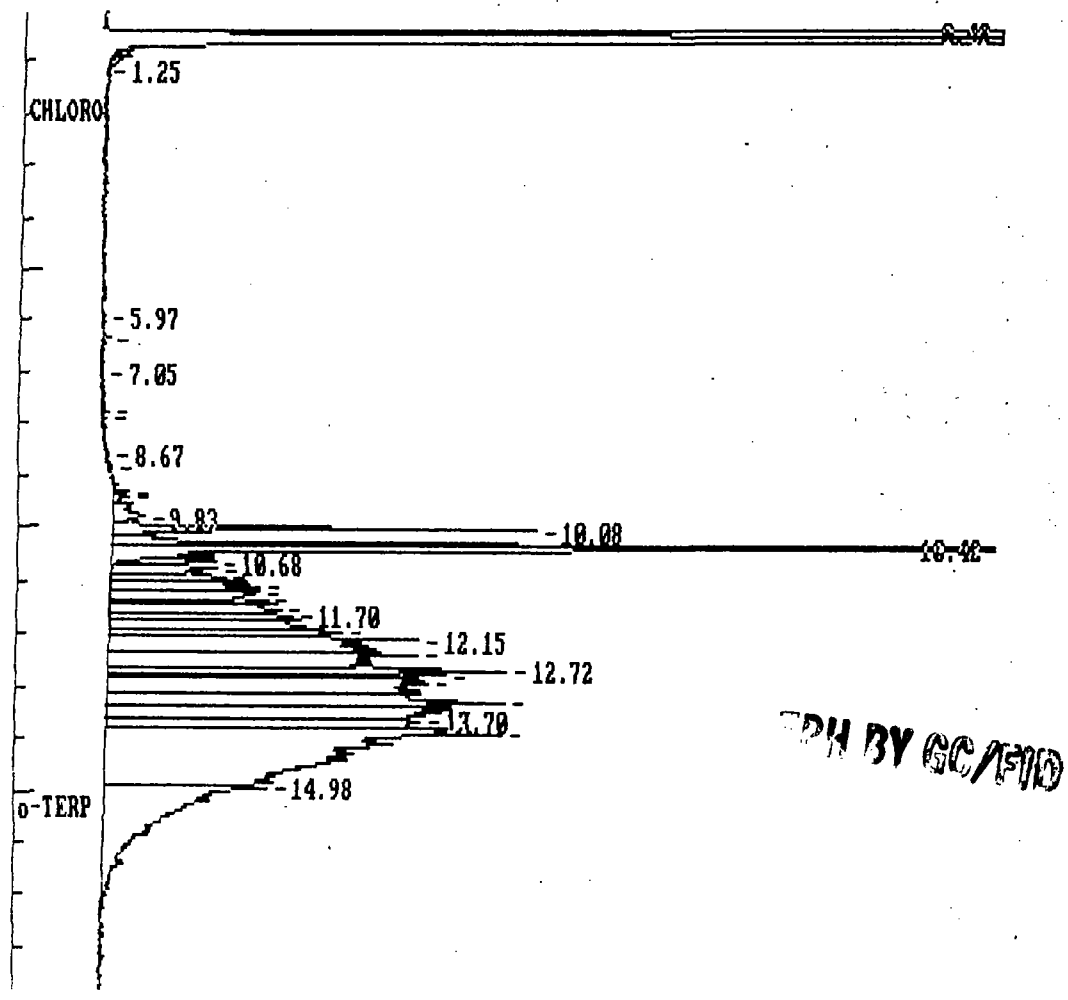
44	22.050	0.2501	0.0088%	2501	875	2.9	1	1.0000E-04
45	22.217	1.6256	0.0572%	16256	1641	9.9	1	1.0000E-04
46	23.350	1.1449	0.0403%	11449	1898	6.0	1	1.0000E-04
47	23.483	0.4663	0.0164%	4663	1080	4.3	1	1.0000E-04
48	24.133	0.4298	0.0151%	4298	872	4.9	1	1.0000E-04
49	25.067	1.5666	0.0551%	15666	1587	9.9	1	1.0000E-04
50	25.367	0.2994	0.0105%	2994	1007	3.0	1	1.0000E-04
51	25.533	1.4693	0.0517%	14693	1371	10.7	1	1.0000E-04
52	26.050	0.8438	0.0297%	8438	1025	8.2	1	1.0000E-04
53	26.500	0.3978	0.0140%	3978	1074	3.7	1	1.0000E-04
54	26.833	0.2081	0.0073%	2081	738	2.8	1	1.0000E-04
55	27.133	0.6770	0.0238%	6770	1329	5.1	1	1.0000E-04
56	28.083	1.3962	0.0491%	13962	1889	7.4	2	1.0000E-04
57	28.233	2.3177	0.0815%	23177	1830	12.7	2	1.0000E-04
58	29.317	2.5420	0.0894%	25421	1369	18.6	1	1.0000E-04
59	30.217	2.8166	0.0991%	28166	1603	17.6	1	1.0000E-04
60	31.300	1.4299	0.0503%	14299	1406	10.2	1	1.0000E-04
61	32.050	1.2076	0.0425%	12076	1578	7.7	2	1.0000E-04
62	32.117	0.5974	0.0210%	5974	1620	3.7	2	1.0000E-04
63	32.600	1.5241	0.0536%	15241	1192	12.8	2	1.0000E-04
64	32.983	0.7007	0.0246%	7007	1136	6.2	1	1.0000E-04
65	33.433	0.5511	0.0194%	5512	1431	3.9	1	1.0000E-04
66	33.967	2.5067	0.0882%	25068	1558	16.1	1	1.0000E-04
67	34.750	0.6849	0.0241%	6849	1925	3.6	1	1.0000E-04

TOTAL AMOUNT : 2842.9819

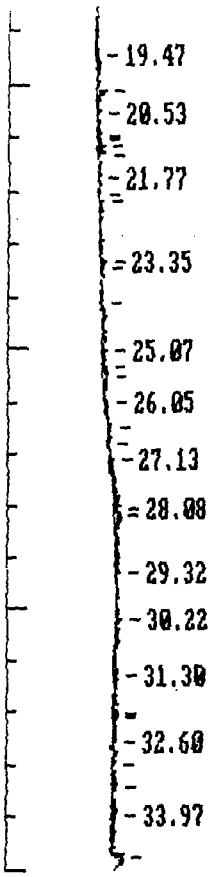
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
CHLOROBENZENE	1.97	CHLOROBENZENE
o-TERPHENYL	15.30	o-TERPHENYL

Data File = J:J26425.PTS Printed on 09-22-1998 at 12:55:38
Start time: 0.00 min. Stop time: 35.00 min. Offset: 0 mv.
Full Range: 250 millivolts



PH BY GC/FID



LANCASTER
LABORATORIES
BY GC/FID

Total = 2904×10^4

START TIME= 6.149 START HEIGHT= 12139
STOP TIME= 7.056 STOP HEIGHT= 12139
AREA = 35451
START TIME= 7.056 START HEIGHT= 12139
STOP TIME= 18.762 STOP HEIGHT= 13542
AREA = 2.575126E+07

2579×10^4

$\frac{2579}{2904} \times 100 = 89\%$

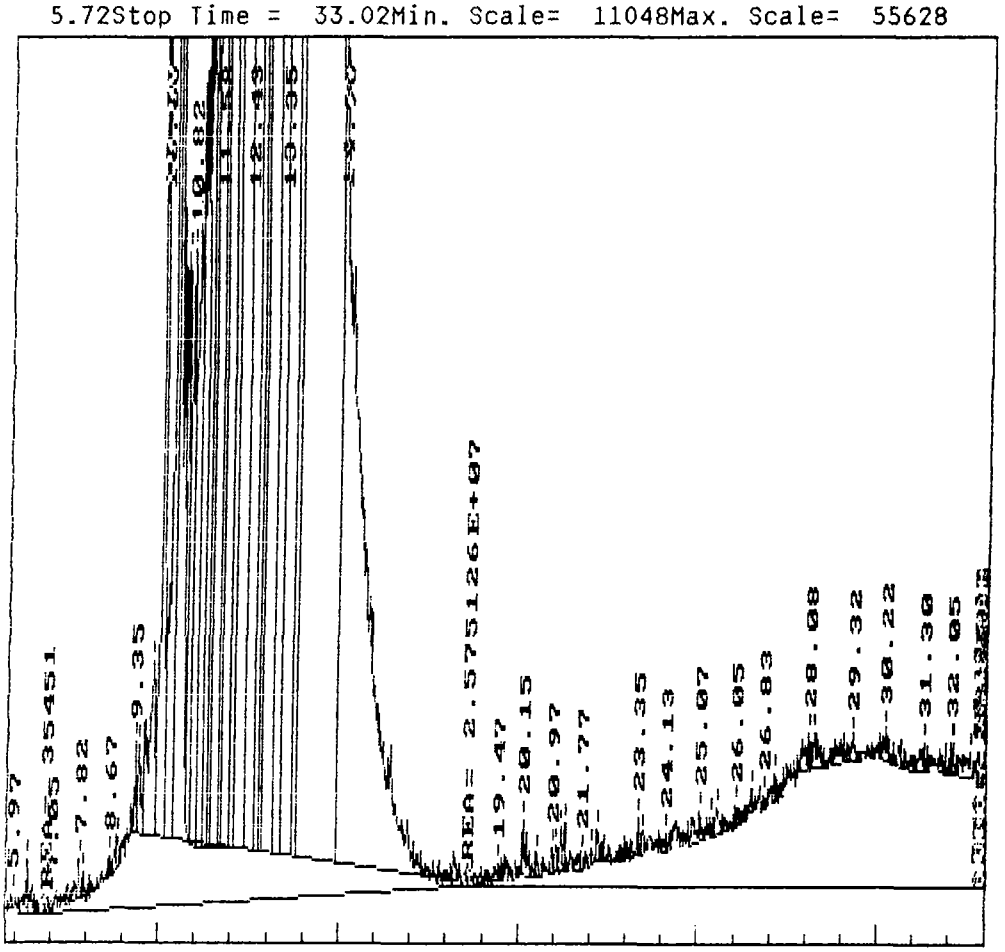
START TIME= 18.762 START HEIGHT= 13542
STOP TIME= 33.017 STOP HEIGHT= 13542
AREA = 326~~8182~~

$\frac{325}{2904} \times 100 = 11\%$

START TIME= 18.762 START HEIGHT= 13542
STOP TIME= 32.973 STOP HEIGHT= 13542
AREA = 3249265

$> 325 \times 10^4$

Plot of data file: J:j26425.PTS
Date: 09-28-1998 Time: 10:23:30
Sample Name: 3001163 DF500
Start Time= 5.72Stop Time = 33.02Min. Scale= 11048Max. Scale= 55628



LANCASTER LABORATORIES

BY GC/FID

J:J26418 3001163 DF10
SCALE 250
OFFSET 0

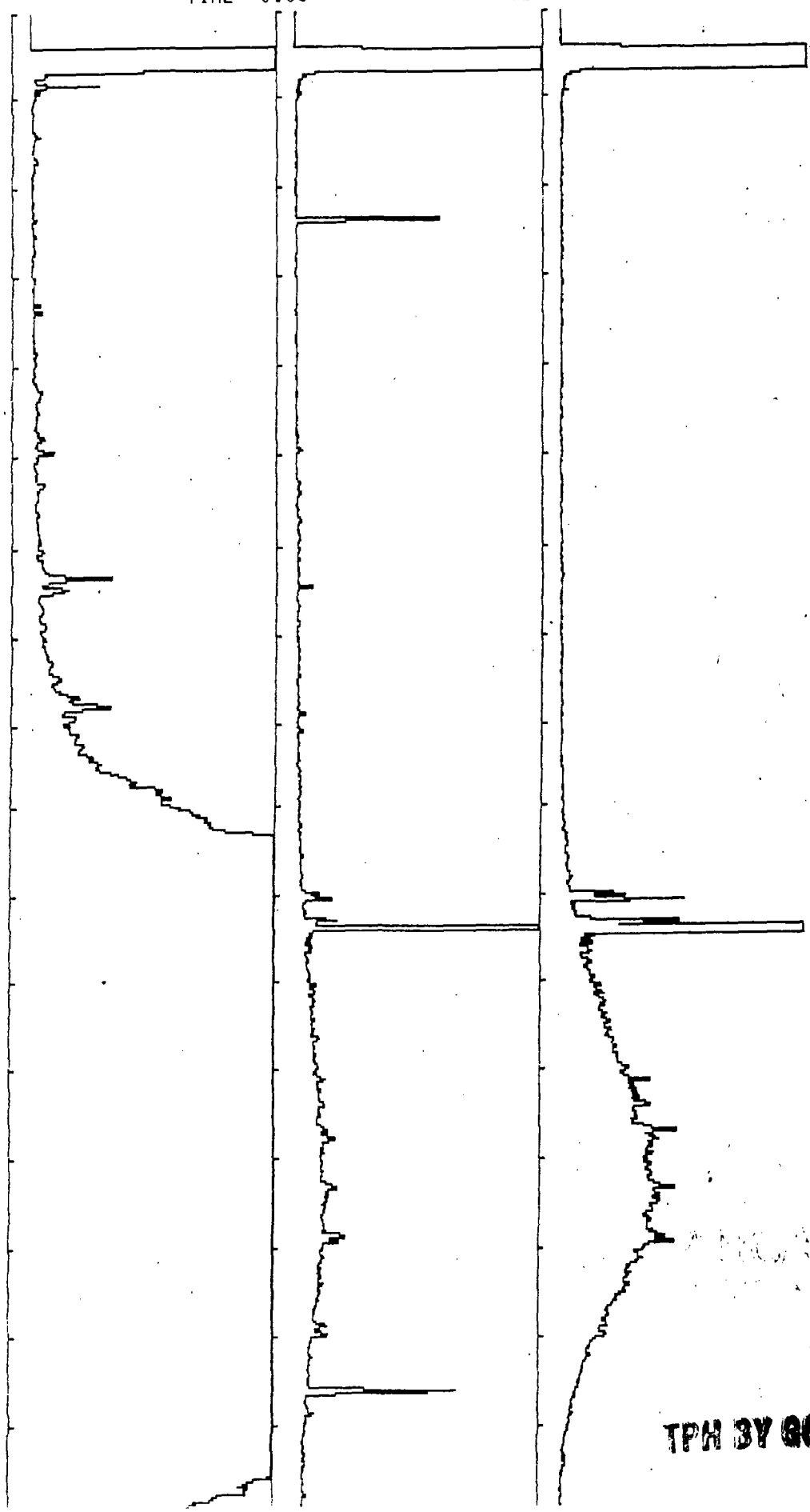
TIME 0.00

J:J26416 3001161 DF10 @ 1065 ppm
SCALE 250
OFFSET 0

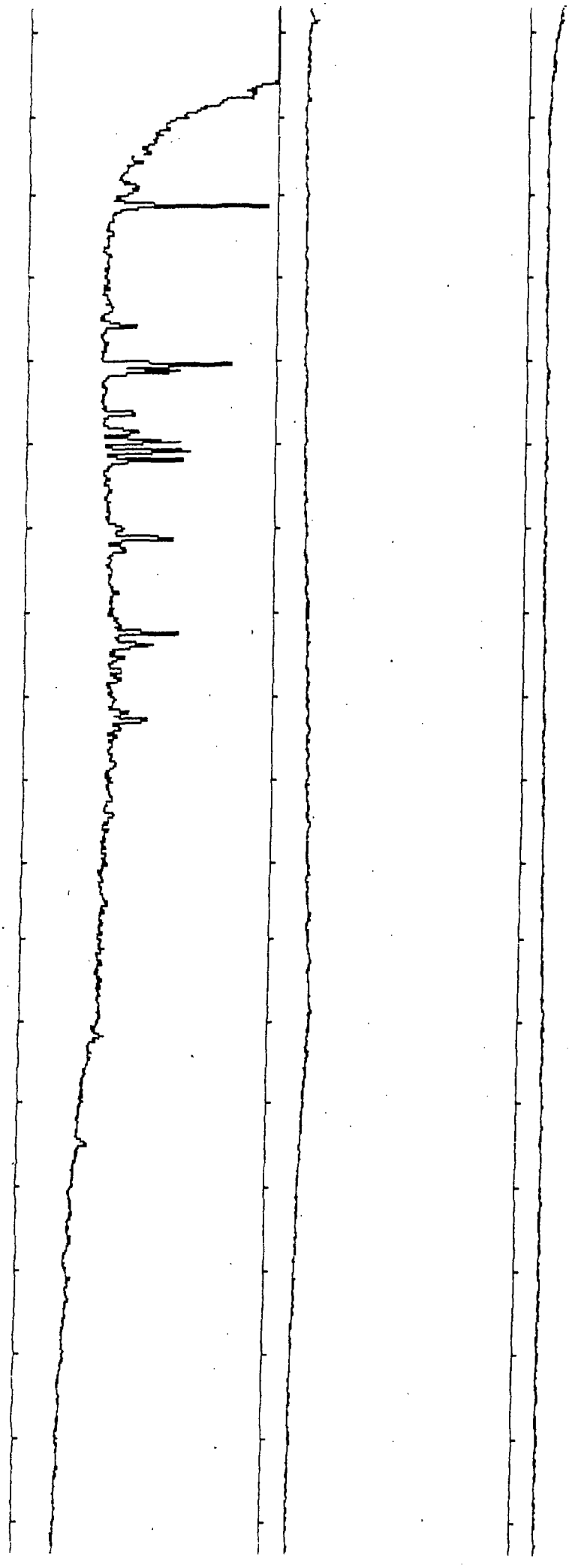
TIME 0.00

J:J26425 3001163 DF500
SCALE 250
OFFSET 0

TIME 0.00



TPH BY GC/FID

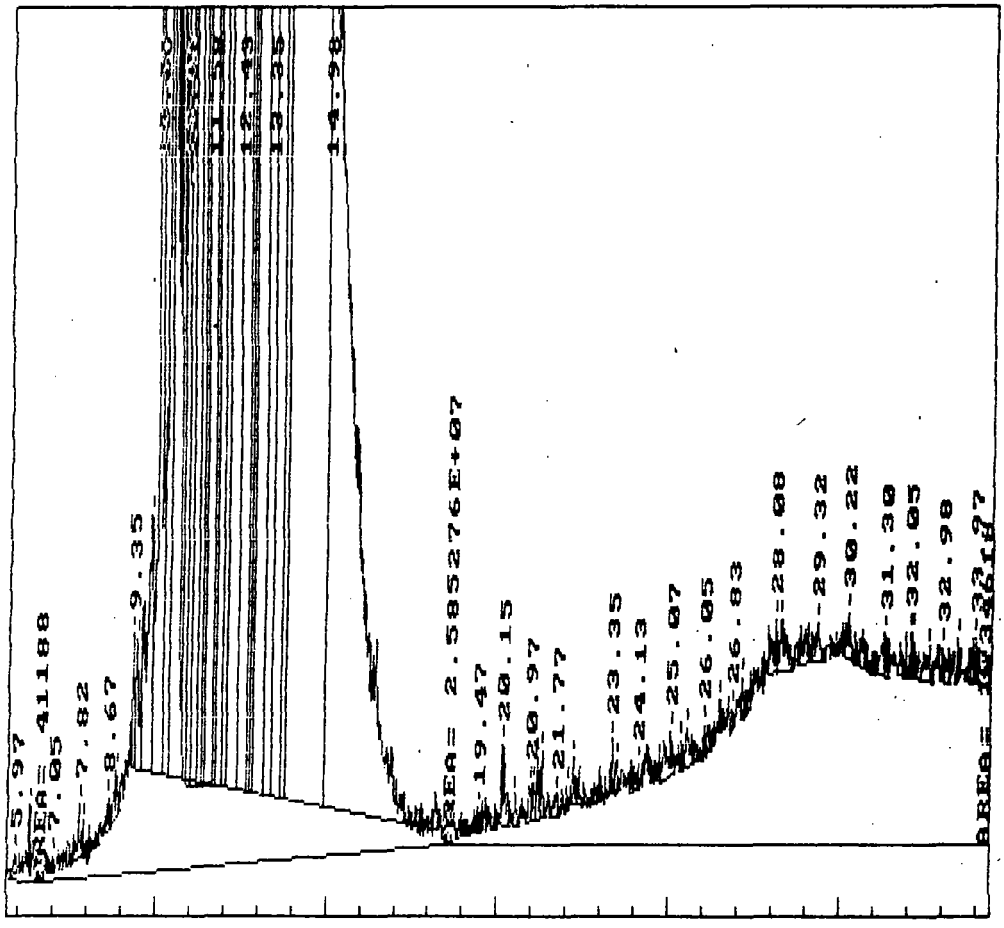


TPH BY GC/FID 313

START TIME= 5.786 START HEIGHT= 12148
STOP TIME= 6.833 STOP HEIGHT= 12038
AREA = 41188
START TIME= 6.833 START HEIGHT= 12038
STOP TIME= 18.797 STOP HEIGHT= 13359
AREA = 2.585276E+07
START TIME= 18.797 START HEIGHT= 13359
STOP TIME= 34.400 STOP HEIGHT= 13359
AREA = 3934618

2983×10^4

Plot of data file: J:J26425.PTS
Date: 09-24-1998 Time: 10:51:58
Sample Name: 3001163 DF500
Start Time= 5.65Stop Time = 34.40Min. Scale= 11048Max. Scale= 42517



GC/FID

Standards Data

HYD STD Processed: 09-21-1998 11:39:45, segment 3, cycle 3
RAW DATA SAVED IN FILE J:J2643.PTS

***** EXTERNAL STANDARD TABLE *****

********** 09-21-1998 11:39:46 Version 5.1 **********
* Sample Name: HYD STD Data File: J:J2643 *
* Date: 09-21-1998 11:00:19 Method: J:LWS 08-14-1998 17:00:41 # 48 *
* Interface: 2 Cycle#: 3 Operator RGB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *
****

Starting Delay: 0.00
Area reject: 0
Amount injected: 1.00
Sample Weight: 1.00000

Ending retention time: 35.00
One sample per 1.000 sec.
Dilution factor: 1.00

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in PPM	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	0.483		221.9570	9.7279%	2219570	898895	2.5	OV			1.0000E-04
2	0.950		1.3611	0.0597%	13611	5538	2.5	1			1.0000E-04
3	1.517		1.4748	0.0646%	14748	3414	4.3	1			1.0000E-04
4	1.783		125.2325	5.4887%	1252325	593844	2.1	1			1.0000E-04
5	2.300		0.6265	0.0275%	6265	886	7.1	1			1.0000E-04
6	4.367		0.3568	0.0156%	3568	1568	2.3	2			1.0000E-04
7	4.450		0.3898	0.0171%	3898	1479	2.6	2			1.0000E-04
8	4.917		129.1676	5.6611%	1291676	627666	2.1	1			1.0000E-04
9	7.867		126.4259	5.5410%	1264259	585454	2.2	1			1.0000E-04
10	8.217		0.5341	0.0234%	5341	2387	2.2	1			1.0000E-04
11	10.067		1.4217	0.0623%	14217	2783	5.1	2			1.0000E-04
12	10.450		126.0136	5.5229%	1260136	561191	2.2	2			1.0000E-04
13	12.033		0.2250	0.0099%	2250	709	3.2	1			1.0000E-04
14	12.417		1.3771	0.0604%	13771	3026	4.6	2			1.0000E-04
15	12.750		137.4155	6.0226%	1374155	509286	2.7	2			1.0000E-04
16	14.333		0.8793	0.0385%	8793	1624	5.4	1			1.0000E-04
17	14.517		1.4680	0.0643%	14680	4937	3.0	2			1.0000E-04
18	14.817		135.8084	5.9522%	1358084	538255	2.5	2			1.0000E-04
19	16.450		0.9402	0.0412%	9402	2739	3.4	2			1.0000E-04
20	16.717		151.9497	6.6596%	1519497	582880	2.6	2			1.0000E-04
21	18.200		1.0107	0.0443%	10107	3102	3.3	2			1.0000E-04
22	18.450		123.5186	5.4136%	1235186	470201	2.6	2			1.0000E-04
23	19.550		0.8991	0.0394%	8991	842	10.7	1			1.0000E-04
24	19.917		2.3257	0.1019%	23257	3856	6.0	2			1.0000E-04
25	20.050		135.7681	5.9504%	1357681	488111	2.8	2			1.0000E-04
26	20.217		0.3418	0.0150%	3418	1276	2.7	1			1.0000E-04
27	21.217		0.7320	0.0321%	7320	1073	6.8	2			1.0000E-04
28	21.550		134.5374	5.8965%	1345374	443790	3.0	2			1.0000E-04
29	22.750		0.9137	0.0400%	9137	1768	5.2	2			1.0000E-04
30	22.933		140.9193	6.1762%	1409193	501308	2.8	2			1.0000E-04
31	24.233		139.2405	6.1026%	1392405	466084	3.0	1			1.0000E-04
32	24.850		0.3703	0.0162%	3703	918	4.0	1			1.0000E-04
33	25.450		138.3543	6.0638%	1383543	453503	3.1	1			1.0000E-04
34	26.350		0.5941	0.0260%	5941	983	6.0	1			1.0000E-04
35	26.583		2.1620	0.0948%	21620	3727	5.8	1			1.0000E-04
36	27.133		0.8816	0.0386%	8817	1720	5.1	1			1.0000E-04
37	27.683		141.5013	6.2017%	1415013	451068	3.1	1			1.0000E-04
38	28.850		3.7442	0.1641%	37442	3382	11.1	1			1.0000E-04
39	30.300		0.8622	0.0378%	8622	1141	7.6	2			1.0000E-04
40	30.467		136.9623	6.0028%	1369623	231298	5.9	2			1.0000E-04
41	30.867		2.3755	0.1041%	23755	3776	6.3	1			1.0000E-04
42	31.900		2.1630	0.0948%	21630	1428	15.1	2			1.0000E-04
43	32.083		1.2060	0.0529%	12060	1113	10.8	2			1.0000E-04
44	32.583		3.0443	0.1334%	30443	1490	20.4	1			1.0000E-04
45	34.017		0.7355	0.0322%	7355	882	8.3	1			1.0000E-04
46	34.433		0.4493	0.0197%	4493	1085	4.1	1			1.0000E-04
47	34.667		1.0176	0.0444%	10176	1367	7.4	1			1.0000E-04

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TORIES
TPH BY GC/FID

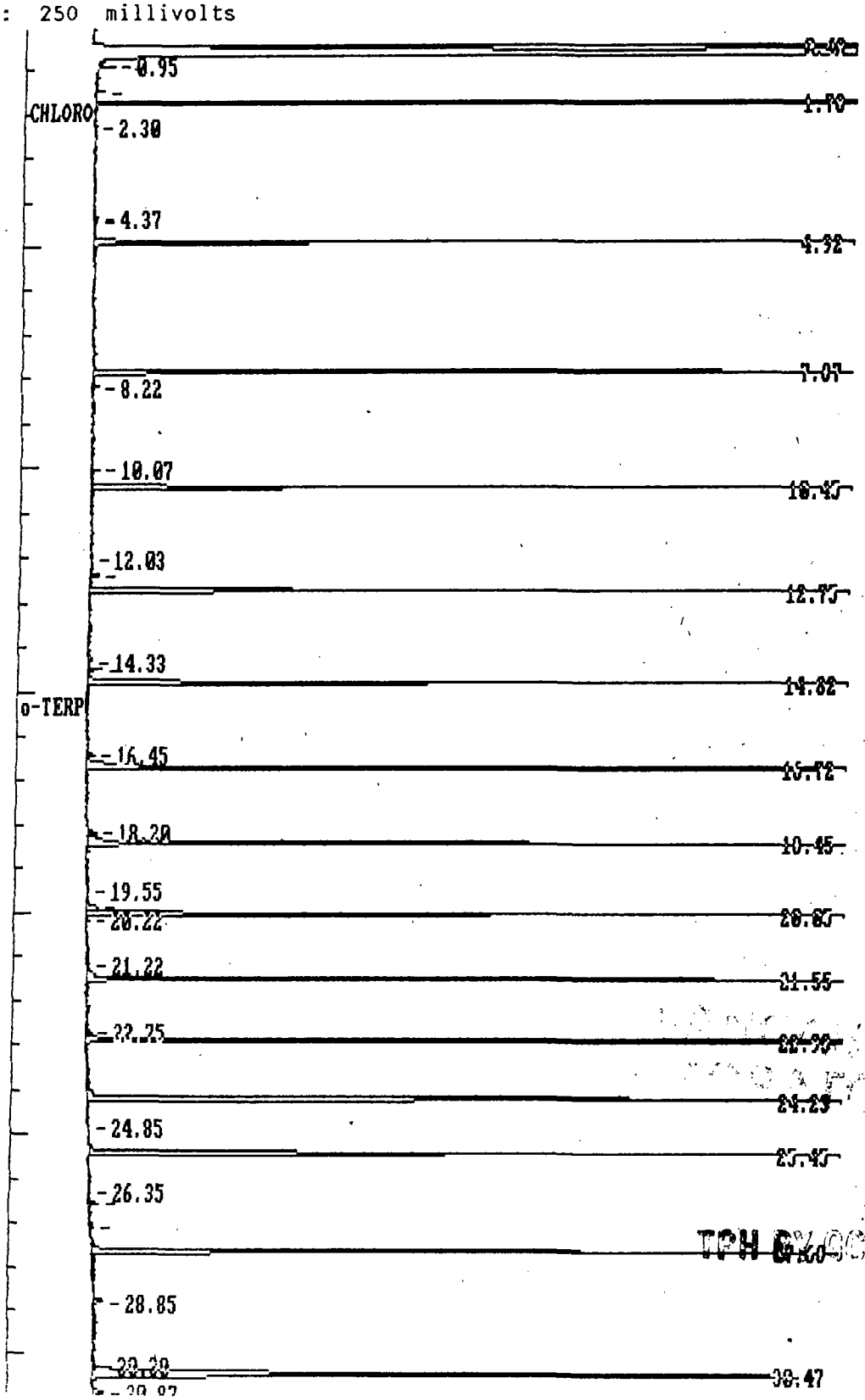
44	32.583	3.0443	0.1334%	30443	1490	20.4	1	1.0000E-04
45	34.017	0.7355	0.0322%	7355	882	8.3	1	1.0000E-04
46	34.433	0.4493	0.0197%	4493	1085	4.1	1	1.0000E-04
47	34.667	1.0126	0.0444%	10126	1367	7.4	1	1.0000E-04

TOTAL AMOUNT = 2281.6501

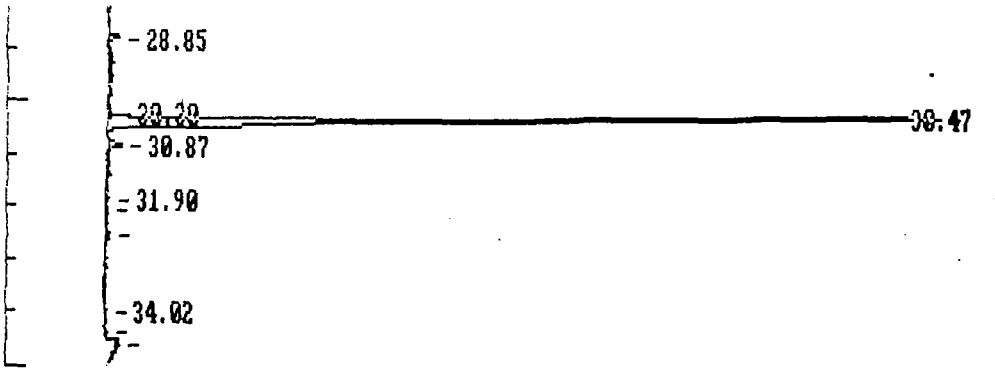
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
CHLOROBENZENE	1.97	CHLOROBENZENE
o-TERPHENYL	15.30	o-TERPHENYL

Data File = J:J2643.PTS Printed on 09-21-1998 at 11:39:51
Start time: 0.00 min. Stop time: 35.00 min. Offset: 0 mv.
Full Range: 250 millivolts



TPH BY GC/FID



LANCASTER
LABORATORIES

TPH BY GC/FID

Raw QC Data

WW BLANK 9 Processed: 09-21-1998 12:33:28, segment 4, cycle 4
RAW DATA SAVED IN FILE J:J2644.PTS

***** EXTERNAL STANDARD TABLE *****

********** 09-21-1998 12:33:30 Version 5.1 **********
* Sample Name: WW BLANK 9/18 98258-0008B Data File: J:J2644 *
* Date: 09-21-1998 11:52:30 Method: J:LWS 08-14-1998 17:00:41 # 48 *
* Interface: 2 Cycle#: 4 Operator RGB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *
****

Starting Delay: 0.00
Area reject: 0
Amount injected: 1.00
Sample Weight: 1.00000

Ending retention time: 35.00
One sample per 1.000 sec.
Dilution factor: 1.00

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in PPM	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	0.467		5.3647	1.6707%	53647	0	0.0	1			1.0000E-04
2	0.900		163.2693	50.8470%	1632693	815263	2.0	1			1.0000E-04
3	2.133		0.4637	0.1444%	4637	801	5.8	1			1.0000E-04
4	2.350		42.6189	13.2728%	426189	240247	1.8	1			1.0000E-04
5	3.467		2.2517	0.7012%	22517	908	24.8	1			1.0000E-04
6	9.750		1.6043	0.4996%	16043	1596	10.1	2			1.0000E-04
7	10.033		1.4810	0.4612%	14810	3787	3.9	2			1.0000E-04
8	10.350		1.9252	0.5996%	19252	2446	7.9	2			1.0000E-04
9	13.367		0.2589	0.0806%	2589	383	6.8	1			1.0000E-04
10	13.800		0.4777	0.1488%	4778	673	7.1	1			1.0000E-04
11	15.533		75.6483	23.5592%	756483	329091	2.3	1			1.0000E-04
12	16.850		0.2436	0.0759%	2436	717	3.4	1			1.0000E-04
13	19.650		0.1913	0.0596%	1913	555	3.4	1			1.0000E-04
14	20.367		1.1292	0.3517%	11292	973	11.6	1			1.0000E-04
15	21.067		1.6504	0.5140%	16505	1058	15.6	1			1.0000E-04
16	22.100		0.6363	0.1982%	6363	893	7.1	1			1.0000E-04
17	22.433		0.7522	0.2343%	7522	793	9.5	1			1.0000E-04
18	23.700		0.5125	0.1596%	5125	911	5.6	2			1.0000E-04
19	24.267		1.3234	0.4121%	13234	1139	11.6	2			1.0000E-04
20	24.700		0.8433	0.2626%	8433	1224	6.9	1			1.0000E-04
21	25.667		1.1152	0.3473%	11152	1248	8.9	1			1.0000E-04
22	26.183		0.8764	0.2729%	8764	633	13.8	1			1.0000E-04
23	26.583		1.7376	0.5411%	17376	1813	9.6	1			1.0000E-04
24	27.033		1.1121	0.3463%	11121	1671	6.7	1			1.0000E-04
25	27.767		1.7575	0.5473%	17575	1476	11.9	1			1.0000E-04
26	28.400		0.3937	0.1226%	3937	725	5.4	1			1.0000E-04
27	28.783		0.6222	0.1938%	6222	1132	5.5	2			1.0000E-04
28	29.117		0.3178	0.0990%	3178	1060	3.0	2			1.0000E-04
29	29.617		0.3469	0.1080%	3469	1421	2.4	1			1.0000E-04
30	30.450		1.8107	0.5639%	18107	2663	6.8	1			1.0000E-04
31	31.583		0.5158	0.1606%	5158	1068	4.8	1			1.0000E-04
32	32.250		0.2641	0.0823%	2642	1228	2.2	1			1.0000E-04
33	32.733		0.8928	0.2781%	8929	1466	6.1	1			1.0000E-04
34	33.033		0.1735	0.0540%	1735	692	2.5	1			1.0000E-04
35	33.983		0.8220	0.2560%	8220	762	10.8	1			1.0000E-04
36	34.433		0.3452	0.1075%	3452	1387	2.5	1			1.0000E-04
37	34.717		5.3494	1.6660%	53495	3750	14.3	1			1.0000E-04

TOTAL AMOUNT : 321.0990

LANCASTER LABORATORIES

TPH BY GC/FID

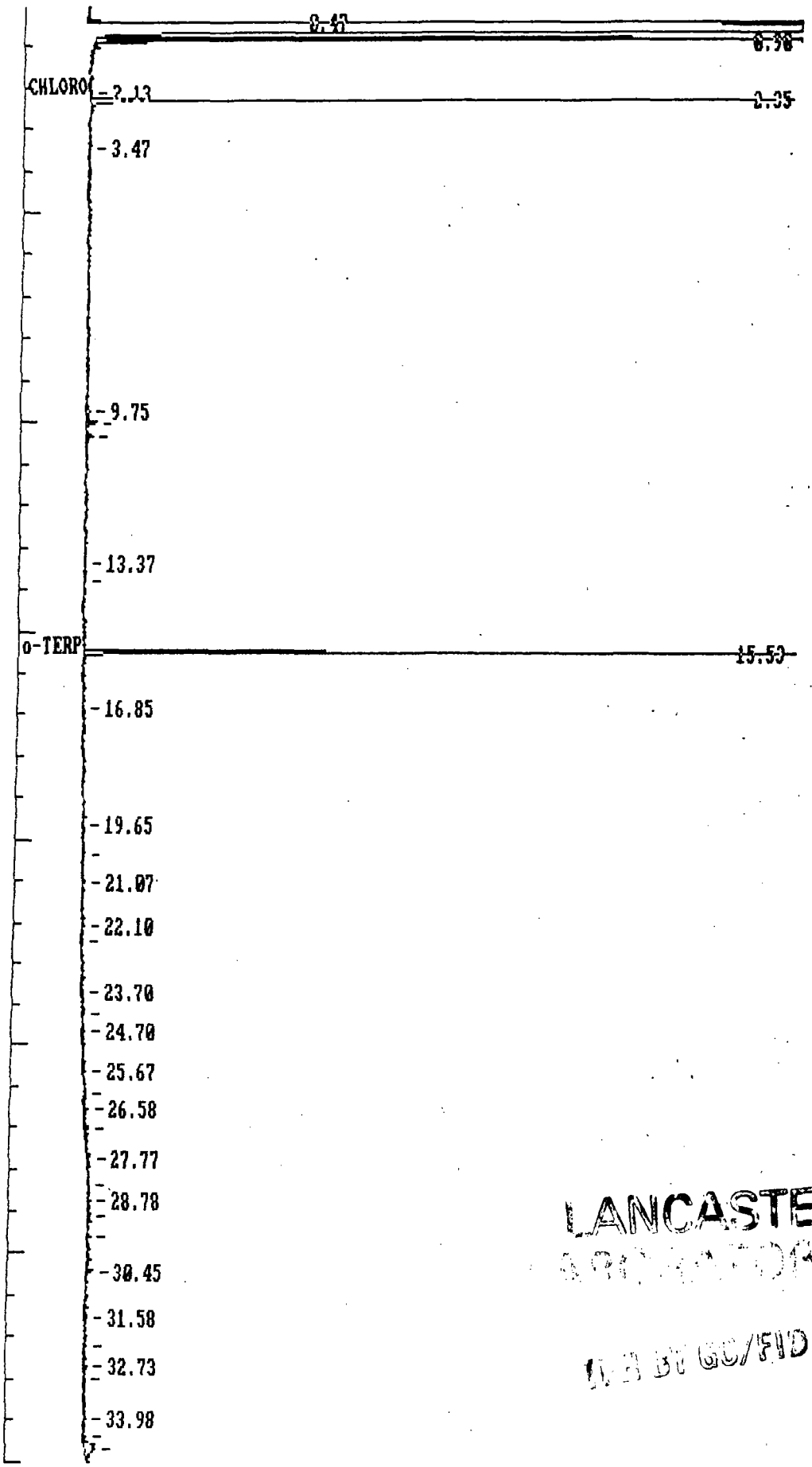
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
CHLOROBENZENE	1.97	CHLOROBENZENE
o-TERPHENYL	15.30	o-TERPHENYL

Data File : J:J2644.PTS Printed on 09-21-1998 at 12:33:34

CHLOROBENZENE	1.97	CHLOROBENZENE
o-TERPHENYL	15.30	o-TERPHENYL

Data File = J:J2644.PTS Printed on 09-21-1998 at 12:33:34
Start time: 0.00 min. Stop time: 35.00 min. Offset: 0 mv.
Full Range: 250 millivolts



LANCASTER
LABORATORIES
GC/FID

Extraction/Distillation/Digestion Logs

Organic Extraction Batchlog

Prep Analysis # 02376 Extraction - Fuel/TPH (Waters)
Prep Group # 315 TPH by GC-FID - Waters Dept: 32

Reviewed:
Start Date: 9-18-98
Start Time: 09:30
Tech 1: Maria Davenport
Tech 2:

BATCH NO. 982580008B

QC	Sample Code	Amt (mL)	SS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	Comments
BLANKB	PBLKP1	1000	SS98252A	1.0			5.0	—	DI H2O	
LCSB	LCSLO	1000	SS98252A	↓	MS98257A	1.0	↓	—	↓	
LCSDB	LCSDZE	1000	SS98252A	↓	MS98257A	↓	↓	—	↓	

MO (2x) 9-18-98

	Sample #	Sample Code	Amt (mL)	SS Sol.	Amt (mL)	FV (mL)	pH	pH	Comments	Analyses	Due Date	Pri
1	3001153	7893-	1044	SS98252A	1.0	5.0	—	—	1:1 HCl added bottles were	4834	10/1/98	N
2	3001154	7894-	1038	SS98252A		↓	—	—		4834	10/1/98	N
3	3001155	7895-	1044	SS98252A			—	—		4834	10/1/98	N
4	3001156	7933-	1044	SS98252A			—	—		4834	10/1/98	N
5	3001157	7934-	1043	SS98252A			—	—		4834	10/1/98	N
6	3001158	7935-	1044	SS98252A			—	—	↓	4834	10/1/98	N
7	3001159	7936-	1049	SS98252A			—	—	1:1 HCl added bottle no 31	4834	10/1/98	N
8	3001160	7937-	990	SS98252A			—	—	1:1 HCl added bottle no 98	4834	10/1/98	N
9	3001162	WESTS	500	SS98252A		↓	—	—	cloudy yellow with sulfur smell (strong)	4828	10/1/98	P
10	3001163	SOUTS	500	SS98252A	↓	25.0	—	—	Black and oily with sulfur smell	4828	10/1/98	P
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

MO (2x) 9-18-98

Additional Comment:

Solvent Used	Lot No.	Solvent Used	Lot No.
Meda	M20267	—	—
Na2SO4	984784	—	—
—	—	—	—
Internal Standar		Balance #	—

S-Evap/bath	90 °C	S-Evap/bath	90 °C	N-Evap	— °C

DF = Dilution Factor FV = Final Volume

page 1 of 1

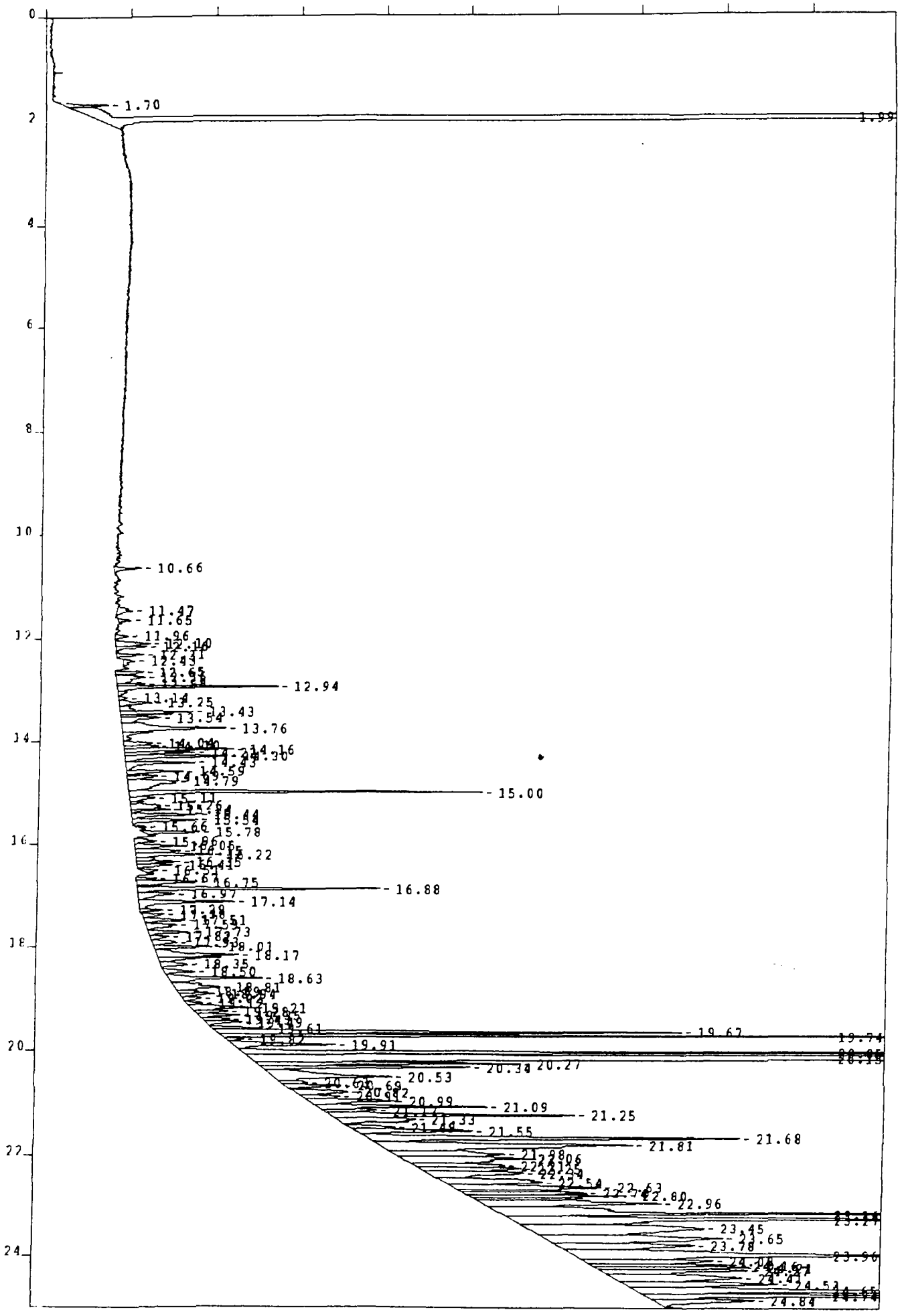
Spike Solutions:

SS98252A TPH SURROGATE STANDARD
MS98257A TPH WORKING SPIKE (3962)

Solvent Screen Data

Sample Data

File=C:\CP\DATA1\01267CB.05R Date printed=09-24-1998 Time= 13:23:18
Sample Name=3001161 AA T 982670002A
0.0 to 25.0 min. Low Y=0.882 High Y=3.882 mv Span=3.0



```
********    Custom Report for Solvent Screen Analysis by GC/FID    ********
* Sample name:  3001161              AA              T    982670002A  Batch     *
* Raw Data File Name:  C:\CP\DATA1\01267CB.05R                                 *
* Date taken:  Sep 24, 1998  13:20:31                Cycle:   5                *
* Method File:  C:\CP\DATA1\01220CB.MET              Version:  0               *
* GC Clewmark #:  CP20--H3147B                       Operator: 719             *
*****************************************************************************
***************************Analysis Conditions***************************
Column:  SPB-5; 30M X 0.32mm, 1.0 um
GC Conditions:  35C 4 MIN.; 9C/MIN TO 220C; HOLD 1 MIN.
*****************************************************************************
Sample Weight/Volume (GM/ML) = .1064     Final Vol(ML)*DF = 10
*****************************************************************************
Integration parameters:
Threshold: 1          Peak width:  .02          Run time:  25
Area Reject:  0       Sampling Rate:  3         Delay Time:  0
Format File:  C:\CP\DATA1\SSSMPHDR.FMT
*****************************************************************************
```

Peak Table Using Alcohol Mix Calibration:
Calibration File: C:\CP\DATA1\01220CLB.CAL- Version 53
Last Updated: 08/07/98 18:01:06

Ret time (min)	Expected ret time	Peak height	Peak name	Sample mg/kg (AM)	Peak Area	Sample % by wt. (AM/10000)
1.698	0.000	157		0.0000	432	0.0000
1.994	0.000	68117		0.0000	229179	0.0000
10.656	0.000	97		0.0000	243	0.0000
11.468	0.000	57		0.0000	263	0.0000
11.654	0.000	48		0.0000	103	0.0000
11.955	0.000	48		0.0000	155	0.0000
12.103	0.000	125		0.0000	442	0.0000
12.160	0.000	111		0.0000	291	0.0000
12.314	0.000	98		0.0000	224	0.0000
12.428	0.000	43		0.0000	154	0.0000
12.654	0.000	102		0.0000	305	0.0000
12.756	0.000	104		0.0000	568	0.0000
12.878	0.000	101		0.0000	228	0.0000
12.942	0.000	575		0.0000	1387	0.0000
13.145	0.000	33		0.0000	86	0.0000
13.250	0.000	118		0.0000	365	0.0000
13.434	0.000	257		0.0000	585	0.0000
13.542	0.000	143		0.0000	529	0.0000
13.756	0.000	365		0.0000	1709	0.0000
14.039	0.000	102		0.0000	359	0.0000
14.097	0.000	123		0.0000	347	0.0000
14.160	0.000	385		0.0000	967	0.0000
14.215	0.000	249		0.0000	652	0.0000
14.296	0.000	359		0.0000	1264	0.0000
14.426	0.000	246		0.0000	741	0.0000
14.592	0.000	199		0.0000	517	0.0000
14.691	0.000	109		0.0000	349	0.0000
14.789	0.000	174		0.0000	1333	0.0000
14.995	0.000	1250		0.0000	2917	0.0000
15.109	0.000	89		0.0000	316	0.0000
15.255	0.000	108		0.0000	522	0.0000
15.338	0.000	138		0.0000	393	0.0000
15.439	0.000	231		0.0000	670	0.0000
15.541	0.000	231		0.0000	639	0.0000
15.665	0.000	29		0.0000	54	0.0000
15.778	0.000	193		0.0000	502	0.0000
15.960	0.000	79		0.0000	263	0.0000
16.046	0.000	138		0.0000	507	0.0000
16.145	0.000	160		0.0000	543	0.0000

23.761	0.000	483	0.0000	2715	0.0000
23.964	0.000	1453	0.0000	7333	0.0000
24.084	0.000	456	0.0000	1922	0.0000
24.160	0.000	519	0.0000	1384	0.0000
24.210	0.000	552	0.0000	1567	0.0000
24.266	0.000	521	0.0000	1890	0.0000
24.407	0.000	455	0.0000	2869	0.0000
24.533	0.000	543	0.0000	2718	0.0000
24.652	0.000	2476	0.0000	7008	0.0000
24.745	0.000	1764	0.0000	4835	0.0000
24.843	0.000	359	0.0000	1605	0.0000

Total Height = 275912.5

Peak Table Using Mix A Calibration:
Calibration File: C:\CP\DATA1\01220CAB.CAL- Version 60
Last Updated: 08/07/98 18:22:24

Ret time (min)	Expected ret time	Peak height	Peak name	Sample mg/kg (AM)	Peak Area	Sample % by wt. (AM/10000)
1.698	1.658	157	N-PENTANE	51.9450	432	0.0052

Peak Table Using Mix B Calibration:
Calibration File: C:\CP\DATA1\01220CBB.CAL- Version 52
Last Updated: 08/07/98 18:27:38

Ret time (min)	Expected ret time	Peak height	Peak name	Sample mg/kg (AM)	Peak Area	Sample % by wt. (AM/10000)
1.698	1.701	157	DIETHYL ETHER	252.1263	432	0.0252

Peak Table Using Mix C Calibration:
Calibration File: C:\CP\DATA1\01220CCB.CAL- Version 57
Last Updated: 08/07/98 18:32:54

Ret time (min)	Expected ret time	Peak height	Peak name	Sample mg/kg (AM)	Peak Area	Sample % by wt. (AM/10000)

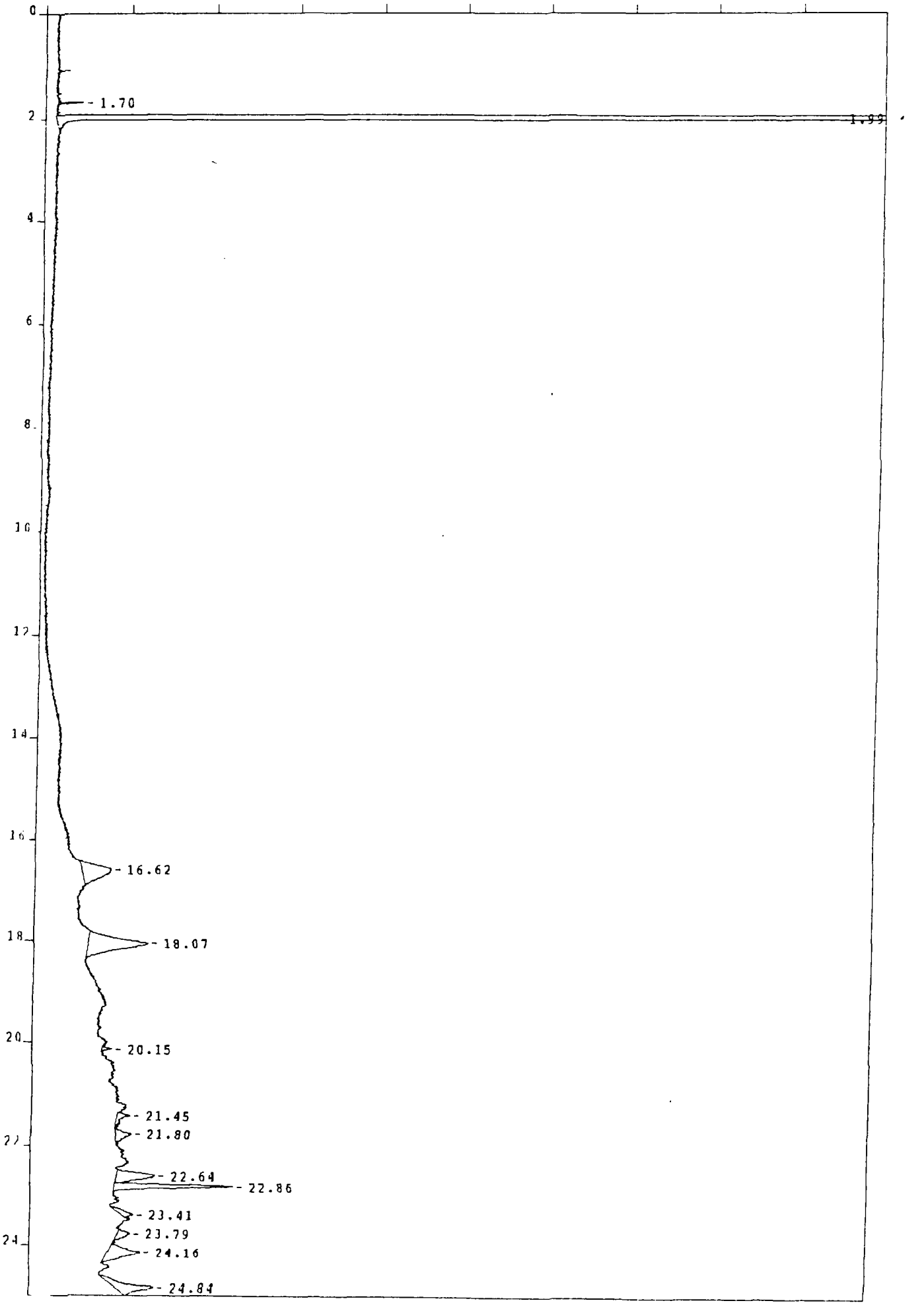
Chrom Perfect Version 6.07 Printed On 09-24-1998, 13:24:23

Reviewed by: TAM/219 9/30/98

Verified by: 152 9/30/98

see reprocessed w/ BTEX CAL for total HC

File=C:\CP\DATA1\01267CB.06R Date printed=09-24-1998 Time= 13:58:41
Sample Name=3001162 AA T 982670002A
0.0 to 25.0 min. Low Y=1.151 High Y=4.151 mv Span=3.0



```
********    Custom Report for Solvent Screen Analysis by GC/FID    ********
* Sample name:  3001162              AA              T    982670002A  Batch     *
* Raw Data File Name:  C:\CP\DATA1\01267CB.06R                                  *
* Date taken:  Sep 24, 1998  13:55:46                Cycle:   6                 *
* Method File:  C:\CP\DATA1\01220CB.MET              Version:  0                *
* GC Clewmark #:  CP20--H3147B                       Operator: 719              *
*****************************************************************************
***************************Analysis Conditions*****************************
Column:  SPB-5; 30M X 0.32mm, 1.0 um
GC Conditions:  35C 4 MIN.; 9C/MIN TO 220C; HOLD 1 MIN.
*****************************************************************************
Sample Weight/Volume (GM/ML) = .1132     Final Vol(ML)*DF = 10
*****************************************************************************
Integration parameters:
Threshold: 1          Peak width:  .02          Run time:  25
Area Reject:  0       Sampling Rate:  3         Delay Time:  0
Format File:  C:\CP\DATA1\SSSMPHDR.FMT
*****************************************************************************
```

Peak Table Using Alcohol Mix Calibration:
Calibration File: C:\CP\DATA1\01220CLB.CAL- Version 53
Last Updated: 08/07/98 18:01:06

Ret time (min)	Expected ret time	Peak height	Peak name	Sample mg/kg (AM)	Peak Area	Sample % by wt. (AM/10000)
1.696	0.000	91		0.0000	112	0.0000
1.994	0.000	67974		0.0000	224081	0.0000
16.615	0.000	105		0.0000	1662	0.0000
18.069	0.000	217		0.0000	3110	0.0000
20.150	0.000	34		0.0000	85	0.0000
21.445	0.000	46		0.0000	309	0.0000
21.799	0.000	56		0.0000	487	0.0000
22.640	0.000	139		0.0000	1212	0.0000
22.862	0.000	427		0.0000	1880	0.0000
23.413	0.000	42		0.0000	318	0.0000
23.787	0.000	46		0.0000	354	0.0000
24.160	0.000	119		0.0000	1347	0.0000
24.845	0.000	136		0.0000	1173	0.0000

Total Height = 69431.5

For total Hydrocarbon ~~<0.38~~ (3) C5-C10 <0.23

10/1/98

Peak Table Using Mix A Calibration:
Calibration File: C:\CP\DATA1\01220CAB.CAL- Version 60
Last Updated: 08/07/98 18:22:24

Ret time (min)	Expected ret time	Peak height	Peak name	Sample mg/kg (AM)	Peak Area	Sample % by wt. (AM/10000)
1.696	1.658	91	N-PENTANE	13.6234	112	0.0014

Peak Table Using Mix B Calibration:
Calibration File: C:\CP\DATA1\01220CBB.CAL- Version 52
Last Updated: 08/07/98 18:27:38

Ret time (min)	Expected ret time	Peak height	Peak name	Sample mg/kg (AM)	Peak Area	Sample % by wt. (AM/10000)
1.696	1.701	91	DIETHYL ETHER	189.3995	112	0.0189

Peak Table Using Mix C Calibration:
Calibration File: C:\CP\DATA1\01220CCB.CAL- Version 57
Last Updated: 08/07/98 18:32:54

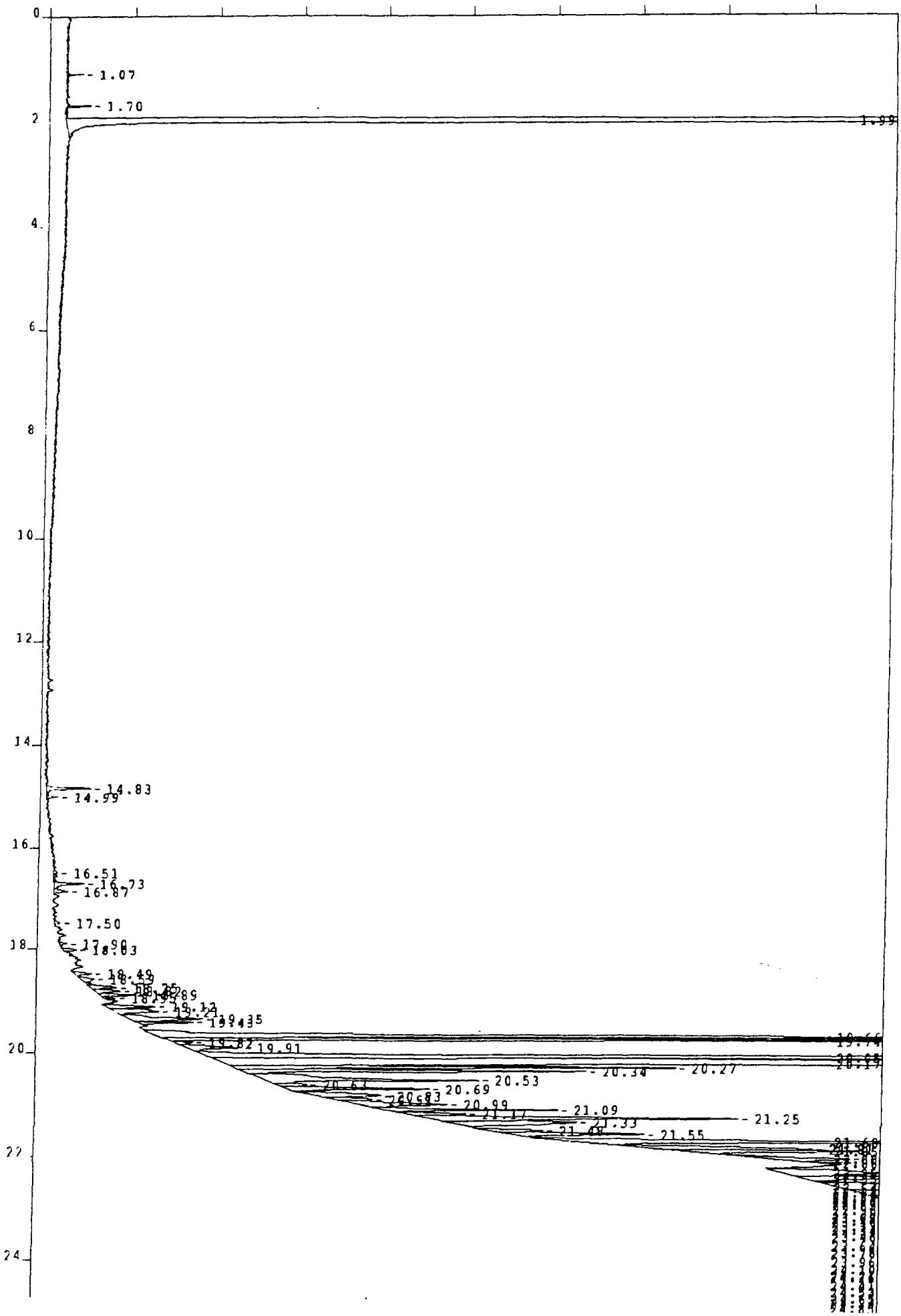
Ret time (min)	Expected ret time	Peak height	Peak name	Sample mg/kg (AM)	Peak Area	Sample % by wt. (AM/10000)

Chrom Perfect Version 6.07 Printed On 09-24-1998, 13:59:41

Reviewed by: JAM 1719 9/30/98

Verified by: JJ/52 9/30/98

File=C:\CP\DATA1\01267CB.07R Date printed=09-24-1998 Time= 14:34:27
Sample Name=3001163 AA T 982670002A
0.0 to 25.0 min. Low Y=1.126 High Y=4.126 mv Span=3.0



```
********    Custom Report for Solvent Screen Analysis by GC/FID    ********
* Sample name:  3001163            AA            T    982670002A  Batch     *
* Raw Data File Name:  C:\CP\DATA1\01267CB.07R                              *
* Date taken:  Sep 24, 1998  14:31:40            Cycle:   7                 *
* Method File:  C:\CP\DATA1\01220CB.MET          Version:  0                *
* GC Clewmark #:  CP20--H3147B                   Operator: 719              *
*****************************************************************************
***************************Analysis Conditions*****************************
Column:  SPB-5; 30M X 0.32mm, 1.0 um
GC Conditions:  35C 4 MIN.; 9C/MIN TO 220C; HOLD 1 MIN.
*****************************************************************************
Sample Weight/Volume (GM/ML) = .1003     Final Vol(ML)*DF = 10
*****************************************************************************
Integration parameters:
Threshold: 1          Peak width:  .02          Run time:  25
Area Reject:  0       Sampling Rate:  3         Delay Time:  0
Format File:  C:\CP\DATA1\SSSMPHDR.FMT
*****************************************************************************
```

Peak Table Using Alcohol Mix Calibration:
Calibration File: C:\CP\DATA1\01220CLB.CAL- Version 53
Last Updated: 08/07/98 18:01:06

Ret time (min)	Expected ret time	Peak height	Peak name	Sample mg/kg (AM)	Peak Area	Sample % by wt. (AM/10000)
1.067	0.000	57		0.0000	53	0.0000
1.697	0.000	89		0.0000	124	0.0000
1.994	0.000	68227		0.0000	228554	0.0000
14.828	0.000	155		0.0000	389	0.0000
14.994	0.000	41		0.0000	87	0.0000
16.510	0.000	14		0.0000	79	0.0000
16.729	0.000	107		0.0000	325	0.0000
16.874	0.000	51		0.0000	133	0.0000
17.500	0.000	21		0.0000	51	0.0000
17.903	0.000	27		0.0000	70	0.0000
18.025	0.000	44		0.0000	122	0.0000
18.490	0.000	60		0.0000	161	0.0000
18.594	0.000	47		0.0000	180	0.0000
18.749	0.000	92		0.0000	307	0.0000
18.816	0.000	90		0.0000	215	0.0000
18.887	0.000	129		0.0000	269	0.0000
18.946	0.000	37		0.0000	49	0.0000
19.118	0.000	172		0.0000	450	0.0000
19.206	0.000	151		0.0000	598	0.0000
19.346	0.000	254		0.0000	922	0.0000
19.429	0.000	191		0.0000	391	0.0000
19.663	0.000	4103		0.0000	9366	0.0000
19.738	0.000	7765		0.0000	16454	0.0000
19.818	0.000	60		0.0000	128	0.0000
19.913	0.000	192		0.0000	651	0.0000
20.052	0.000	8937		0.0000	20621	0.0000
20.167	0.000	411983		0.0000	944453	0.0000
20.269	0.000	1603		0.0000	3814	0.0000
20.339	0.000	1228		0.0000	2789	0.0000
20.526	0.000	768		0.0000	3078	0.0000
20.626	0.000	105		0.0000	341	0.0000
20.687	0.000	520		0.0000	1342	0.0000
20.826	0.000	243		0.0000	1010	0.0000
20.905	0.000	134		0.0000	395	0.0000
20.988	0.000	321		0.0000	1239	0.0000
21.092	0.000	616		0.0000	1575	0.0000
21.169	0.000	213		0.0000	480	0.0000
21.250	0.000	1096		0.0000	3444	0.0000
21.330	0.000	449		0.0000	1955	0.0000
21.480	0.000	204		0.0000	495	0.0000
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]

Total hydrocarbons
C5-C10
<0.2%

21.680	0.000	1754	0.0000	5105	0.0000
21.807	0.000	547	0.0000	1689	0.0000
21.851	0.000	611	0.0000	1625	0.0000
21.996	0.000	250	0.0000	851	0.0000
22.061	0.000	68	0.0000	96	0.0000
22.254	0.000	356	0.0000	1905	0.0000
22.349	0.000	396	0.0000	1548	0.0000
22.537	0.000	489	0.0000	2486	0.0000
22.634	0.000	870	0.0000	3542	0.0000
22.695	0.000	777	0.0000	1800	0.0000
22.739	0.000	617	0.0000	1551	0.0000
22.800	0.000	1139	0.0000	3781	0.0000
22.851	0.000	796	0.0000	1717	0.0000
22.957	0.000	1298	0.0000	7272	0.0000
23.094	0.000	999	0.0000	4928	0.0000
23.163	0.000	4022	0.0000	13250	0.0000
23.267	0.000	1901	0.0000	7853	0.0000
23.336	0.000	1197	0.0000	3430	0.0000
23.455	0.000	1504	0.0000	14466	0.0000
23.640	0.000	1734	0.0000	13111	0.0000
23.779	0.000	1444	0.0000	9206	0.0000
23.964	0.000	2381	0.0000	18100	0.0000
24.095	0.000	1194	0.0000	4466	0.0000
24.210	0.000	1335	0.0000	6947	0.0000
24.257	0.000	1190	0.0000	4694	0.0000
24.409	0.000	1319	0.0000	8878	0.0000
24.529	0.000	1409	0.0000	7968	0.0000
24.653	0.000	1959	0.0000	8902	0.0000
24.744	0.000	2249	0.0000	6784	0.0000
24.847	0.000	904	0.0000	5177	0.0000

Total Height = 547783.1

Peak Table Using Mix A Calibration:
Calibration File: C:\CP\DATA1\01220CAB.CAL- Version 60
Last Updated: 08/07/98 18:22:24

Ret time (min)	Expected ret time	Peak height	Peak name	Sample mg/kg (AM)	Peak Area	Sample % by wt. (AM/10000)
1.697	1.658	89	N-PENTANE	13.6569	124	0.0014

Peak Table Using Mix B Calibration:
Calibration File: C:\CP\DATA1\01220CBB.CAL- Version 52
Last Updated: 08/07/98 18:27:38

Ret time (min)	Expected ret time	Peak height	Peak name	Sample mg/kg (AM)	Peak Area	Sample % by wt. (AM/10000)
1.697	1.701	89	DIETHYL ETHER	211.4359	124	0.0211

Peak Table Using Mix C Calibration:
Calibration File: C:\CP\DATA1\01220CCB.CAL- Version 57
Last Updated: 08/07/98 18:32:54

Ret time (min)	Expected ret time	Peak height	Peak name	Sample mg/kg (AM)	Peak Area	Sample % by wt. (AM/10000)

Chrom Perfect Version 6.07 Printed On 09-24-1998, 14:35:30

Reviewed by: TAM/719 9/25/98

Verified by: 9/30/98

Dept 32

Samples in SDG Report DATE: 10/20/98

SDG	Analysis	SAMPLE	EPANAME	STATUS	EMPLOYEE	WANG STATUS	BATCH
LBG01	00445	3001161	SVE11	PREP IN PROGRE	0719	V	982670002A
		3001162	WESTS	PREP IN PROGRE	0719	V	982670002A
		3001163	SOUTS	PREP IN PROGRE	0719	V	982670002A
	00466	3001161	SVE11	PREP IN PROGRE	0719	V	982670002A
		3001162	WESTS	PREP IN PROGRE	0719	V	982670002A
		3001163	SOUTS	PREP IN PROGRE	0719	V	982670002A
	02535	3001161	SVE11	PREP INCOMPLET	0135 3264	V	
	04828	3001162	WESTS	PREP COMPLETE	0377 3264	V	982580008B
		3001163	SOUTS	PREP COMPLETE	0377 "	V	982580008B
	09188	3001161	SVE11	PREP INCOMPLET	0377	V	
		3001162	WESTS	PREP INCOMPLET	0377	V	
		3001163	SOUTS	PREP INCOMPLET	0377	V	

DATE: 10/20/98 DATA PACKAGE LIST PAGE: 1

SDG	CLIENT	STATUS		ANALYSIS	PACKAGE TYPE	DUE DATE
BOC07	Atlantic Env.Consulting Svcs.	V	PREP COMPLETE	08270	Type I Regulatory Format DP	10/30/98 8
DAM05	Aqualon Company	V	PREP COMPLETE	08278	Type I Regulatory Format DP	10/23/98 2
ETU02	Forensic Environmental Servi	I	PREP COMPLETE	05321	Type I Regulatory Format DP	10/30/98
HAR07	E A Engineering & Science T	V	PREP COMPLETE	08270	Type I Regulatory Format DP	10/22/98 1
HBC01	HBC Engineering, Inc.	V	PREP COMPLETE	04703	Type VI Raw Data Only	10/28/98 7
LBG01	Leggette,Brashears & Graha	V	~~PREP INCOMPLETE~~	09188	Type VI Raw Data Only	10/8/98
		V	~~PREP IN PROGRESS~~	00445		
		V	~~PREP IN PROGRESS~~	00466		
		V	~~PREP INCOMPLETE~~	02535		
		V	~~PREP COMPLETE~~	04828		
OBE02	Remediation Technologies, I	C	PREP COMPLETE	05332	Type I Regulatory Format DP	11/4/98
RPB02	CRG-E.I.DuPont de Nemours	V	PREP COMPLETE	08269	Type III Reduced Deliverable	10/26/98 3
RPB03	CRG-E.I.DuPont de Nemours	V	PREP COMPLETE	08270	Type III Reduced Deliverable	10/26/98 4
RPB04	CRG-E.I.DuPont de Nemours	V	PREP COMPLETE	08270	Type III Reduced Deliverable	10/27/98 5
RPB05	CRG-E.I.DuPont de Nemours	V	PREP COMPLETE	08269	Type III Reduced Deliverable	10/27/98 6
		V	PREP COMPLETE	08270		
RWY02	Merck & Company, Inc.	I	PREP INCOMPLETE	05084	Type I Regulatory Format DP	10/27/98 9
		I	PREP INCOMPLETE	05085		
RWY03	Merck & Company, Inc.	I	PREP INCOMPLETE	05084	Type I Regulatory Format DP	11/3/98
		C	PREP COMPLETE	05084		
RWY05	Merck & Company, Inc.	C	PREP COMPLETE	05084	Type I Regulatory Format DP	11/9/98
		I	PREP INCOMPLETE	05084		
RWY07	Merck & Company, Inc.	V	PREP INCOMPLETE	01444	Type I Regulatory Format DP	10/30/98 10
		V	PREP COMPLETE	04828		
		C	PREP COMPLETE	05084		
		C	PREP COMPLETE	07702		
		C	PREP COMPLETE	08099		
RWY09	Merck & Company, Inc.	C	PREP COMPLETE	05084	Type I Regulatory Format DP	11/5/98
		V	PREP IN PROGRESS	08097		
		I	PREP INCOMPLETE	08097		
		I	PREP INCOMPLETE	07105		
		I	PREP INCOMPLETE	05084		
		C	PREP COMPLETE	07105		
RWY11	Merck & Company, Inc.	I	PREP INCOMPLETE	05084	Type I Regulatory Format DP	11/4/98
RWY13	Merck & Company, Inc.	I	PREP INCOMPLETE	05084	Type I Regulatory Format DP	11/9/98
RWY15	Merck & Company, Inc.	I	PREP INCOMPLETE	05084	Type I Regulatory Format DP	11/6/98
TXT30	ARCADIS Geraghty & Miller,	I	PREP IN PROGRESS	05322	Type II(Tier II) Data Package	11/7/98

TYPE I -- Order of Assembly Checklist

A. QC Summary (forms only)
   1. Surrogate forms (2E/F)
   2. MS/MSD forms (3E/F)
   3. LCS/LCSD forms if needed
   4. Blank Form (4C & 1D)

B. Sample Data -- Do not include blank, MS/MSD, LCS, or lab submitted background sample data in this section. If the background sample is part of the SDG include it here. The following pieces of data are to be grouped by sample number.
   1. MDL sheets for each analysis number
   2. Confirm/PCBCheck data pages
   3. Sample "A" side chromatogram, integration report, replots if any
   4. Sample "B" side chromatogram, integration report, replots if any (Some analyses do not have a "B" side analysis)

Repeat steps B 1-4 for each sample in the SDG.

C. Standards Data
   1. Calibration forms 6D-F, 7D-E, 8D, 10A-B (if needed). Within each form type arrange A side/B side for each run then the next run A/B. For example 6D run #1A, 6D run #1B, 6D run #2A, 6D run #2B, 6E run #1A, etc.
   2. Run #1A side coversheets with injections circled (ical, ccal, and samples) followed by chromatograms in order of injection.
   3. Run #1B same data as noted for 1A, Run 2A same data, run 2B same data, etc.

Continuing calibration data only need to be included for standards which bracket the samples/QC in the SDG.

D. Raw QC Data -- arrange the data sheets and cgrams stipulated in section B for the following:
   1. Method Blank
   2. Background (only if lab submitted QC)
   3. Matrix Spike
   4. Matrix Spike Duplicate
   5. Lab Spike
   6. Lab Spike Duplicate

E. Extraction Log
   1. Extraction logs and any cleanup logs (acid, florisil, GPC, TBA, etc) arranged by batch in chronological order.

For any clients requiring form I's in the package these are to be inserted for each sample/QC in front of the Confirm page. The form 10's would also be needed and go after the 8D forms.

TYPE II/III -- Order of Assembly Checklist

A. QC Summary (forms only)
   1. Surrogate forms (2E/F)
   2. MS/MSD forms (3E/F)
   3. LCS/LCSD forms if needed
   4. Blank Form (4C & 1D)

B. Sample Data -- Do not include blank, MS/MSD, LCS, or lab submitted background sample data in this section. If the background sample is part of the SDG include it here. The following pieces of data are to be grouped by sample number.
   1. MDL sheets for each analysis number *
   2. Confirm/PCBCheck data pages
   3. Sample "A" side chromatogram, integration report, replots if any
   4. Sample "B" side chromatogram, integration report, replots if any (Some analyses do not have a "B" side analysis)

Repeat steps B 1-4 for each sample in the SDG.

C. Standards Data Type II → ICAL and CCAL forms (no std. cgrams)
   1. Calibration forms 6D-F, 7D-E, 8D, 10A-B (if needed). Within each form type arrange A side/B side for each run then the next run A/B. For example 6D run #1A, 6D run #1B, 6D run #2A, 6D run #2B, 6E run #1A, etc.
   2. Include copy of A side coversheets with injections circled so the reviewer can check the for 7 & 8 data more easily. <u>These need to be removed prior to submission to DP dept</u>

Continuing calibration data only need to be included for standards which bracket the samples/QC in the SDG.

D. Raw QC Data -- arrange the data sheets and cgrams stipulated in section B for the following:
   1. Method Blank
   2. Include copies of the confirm or PCBCheck pages for the spike data so the reviewer can check the Form 3 data. These need to be removed prior to submission to the DP dept.

E. Extraction Log
   1. Extraction logs and any cleanup logs (acid, florisil, GPC, TBA, etc) arranged by batch in chronological order.

* The MDL data are for a type III only, not the type II.

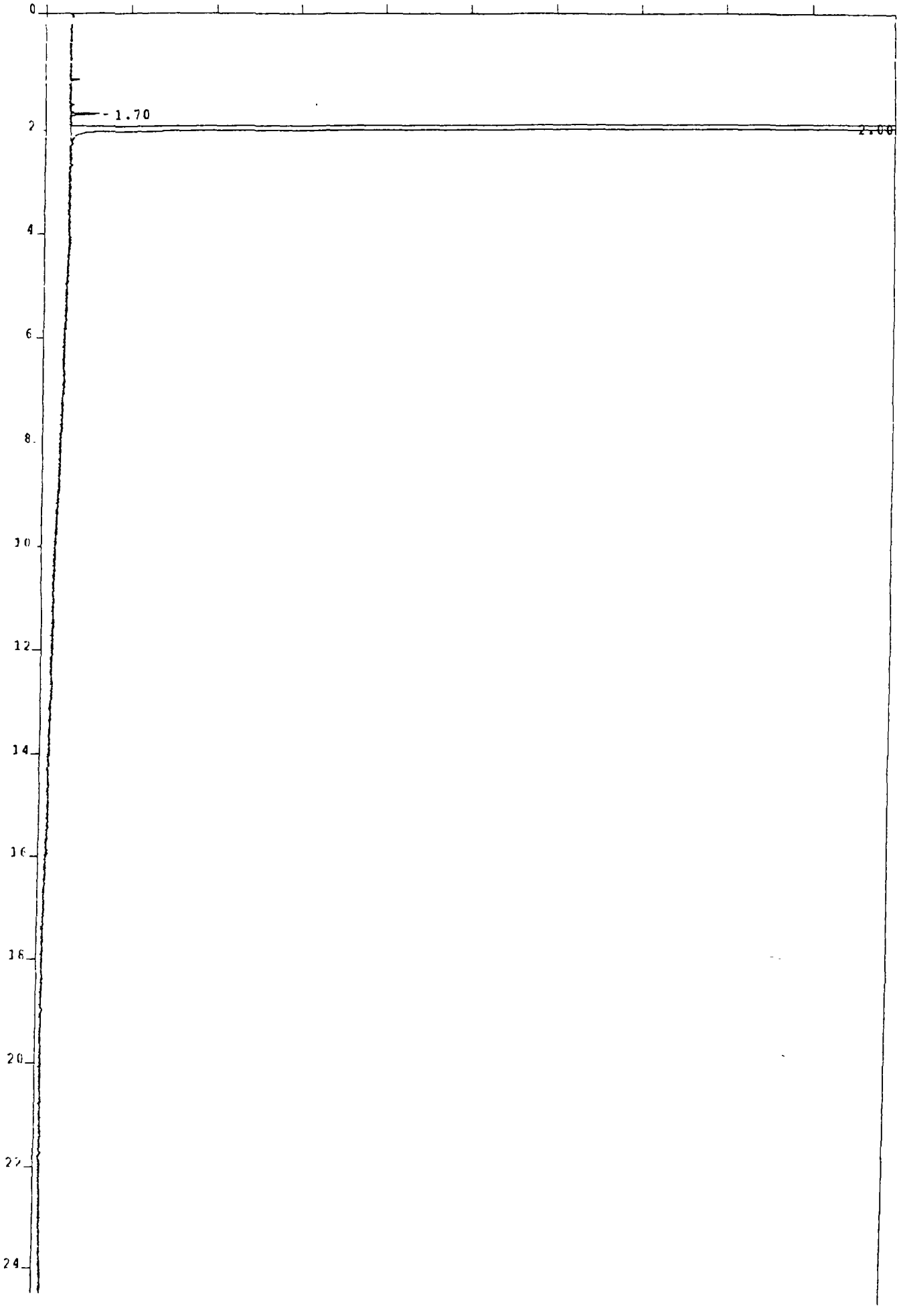
A Type III requires a Non-Conformance Summary in addition to the normal narrative to be generated by the reviewer.

The Reduced Type II gets only the section A data and a Non-Conformance Summary.

The Modified Type II gets the section A data and a Case Narrative.

Raw QC Data

File=C:\CP\DATA1\01267CB.04R Date printed=09-24-1998 Time= 12:44:37
Sample Name=BLANKA AA BLK 982670002A
0.0 to 25.0 min. Low Y=0.818 High Y=3.818 mv Span=3.0



```
********    Custom Report for Solvent Screen Analysis by GC/FID    ********
* Sample name:  BLANKA                AA              BLK  982670002A  Batch      *
* Raw Data File Name:  C:\CP\DATA1\01267CB.04R                                  *
* Date taken:  Sep 24, 1998  12:44:34                Cycle:   4                 *
* Method File:  C:\CP\DATA1\01220CB.MET              Version:  0                *
* GC Clewmark #:  CP20--H3147B                       Operator: 719              *
*****************************************************************************
***************************Analysis Conditions***************************
Column:  SPB-5; 30M X 0.32mm, 1.0 um
GC Conditions:  35C 4 MIN.; 9C/MIN TO 220C; HOLD 1 MIN.
*****************************************************************************
Sample Weight/Volume (GM/ML) = 1          Final Vol(ML)*DF = 1
*****************************************************************************
Integration parameters:
Threshold: 1          Peak width:  .02          Run time:  25
Area Reject:  0       Sampling Rate:  3         Delay Time:  0
Format File:  C:\CP\DATA1\SSSMPHDR.FMT
*****************************************************************************
```

Peak Table Using Alcohol Mix Calibration:
Calibration File: C:\CP\DATA1\01220CLB.CAL- Version 53
Last Updated: 08/07/98 18:01:06

Ret time (min)	Expected ret time	Peak height	Peak name	Sample mg/kg (AM)	Peak Area	Sample % by wt. (AM/10000)
1.704	0.000	102		0.0000	134	0.0000
2.004	0.000	68733		0.0000	232935	0.0000

Total Height = 68834.91

Peak Table Using Mix A Calibration:
Calibration File: C:\CP\DATA1\01220CAB.CAL- Version 60
Last Updated: 08/07/98 18:22:24

Ret time (min)	Expected ret time	Peak height	Peak name	Sample mg/kg (AM)	Peak Area	Sample % by wt. (AM/10000)
1.704	1.658	102	N-PENTANE	0.2199	134	0.0000

Peak Table Using Mix B Calibration:
Calibration File: C:\CP\DATA1\01220CBB.CAL- Version 52
Last Updated: 08/07/98 18:27:38

Ret time (min)	Expected ret time	Peak height	Peak name	Sample mg/kg (AM)	Peak Area	Sample % by wt. (AM/10000)
1.704	1.701	102	DIETHYL ETHER	2.2328	134	0.0002

Peak Table Using Mix C Calibration:
Calibration File: C:\CP\DATA1\01220CCB.CAL- Version 57
Last Updated: 08/07/98 18:32:54

Ret time (min)	Expected ret time	Peak height	Peak name	Sample mg/kg (AM)	Peak Area	Sample % by wt. (AM/10000)

Chrom Perfect Version 6.07 Printed On 09-24-1998, 12:45:36

Reviewed by: [signature] 9/25/98

Verified by: [signature] 9/30/98

Extraction/Distillation/Digestion Logs

Organic Extraction Batchlog

Prep Analysis # 00380 Extraction - Solvent screen

Prep Group # 341 Solvent Screen-Liquids Dept: 32

Reviewed: [illegible]

Start Date: 9-24-98

Start Time: 9:30

Tech 1: [illegible]

Tech 2:

BATCH NO. 982670002A

QC	Sample Code	Amt (mL)	SS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	Comments
BLANKA	PBLKRW	1	—				1	N/A	N/A	

	Sample #	Sample Code	Amt (g)	SS Sol.	Amt (mL)	FV (mL)	pH	pH	Comments	Analyses	Due Date	Pri
1	3001161	SVE11	.1064			10	N/A	N/A	CS	445 466	10/1/98	P
2	3001162	WESTS	.1132			↓	↓	↓	↓	445 466	10/1/98	P
3	3001163	SOUTS	.1003			↓	↓	↓	top layer ↓	445 466	10/1/98	P
4												
5	3001161		.1095			10	N/A	N/A	MeOH			
6	3001162		.1135			↓	↓	↓	↓			
7	3001163		.1130			↓	↓	↓	bottom layer ↓			
8												
9	3001162		.1028			10	N/A	N/A	DI H_2O			
10	3001163		.1008			↓	↓	↓	bottom layer ↓			
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

Additional Comment:

DF = Dilution Factor FV = Final Volume

Solvent Used	Lot No.	Solvent Used	Lot No.
CS_2	M13421		
DI H_2O			
MeOH	37329		
Internal Standar		Balance #	

S-Evap/bath	°C	S-Evap/bath	°C	N-Evap	°C

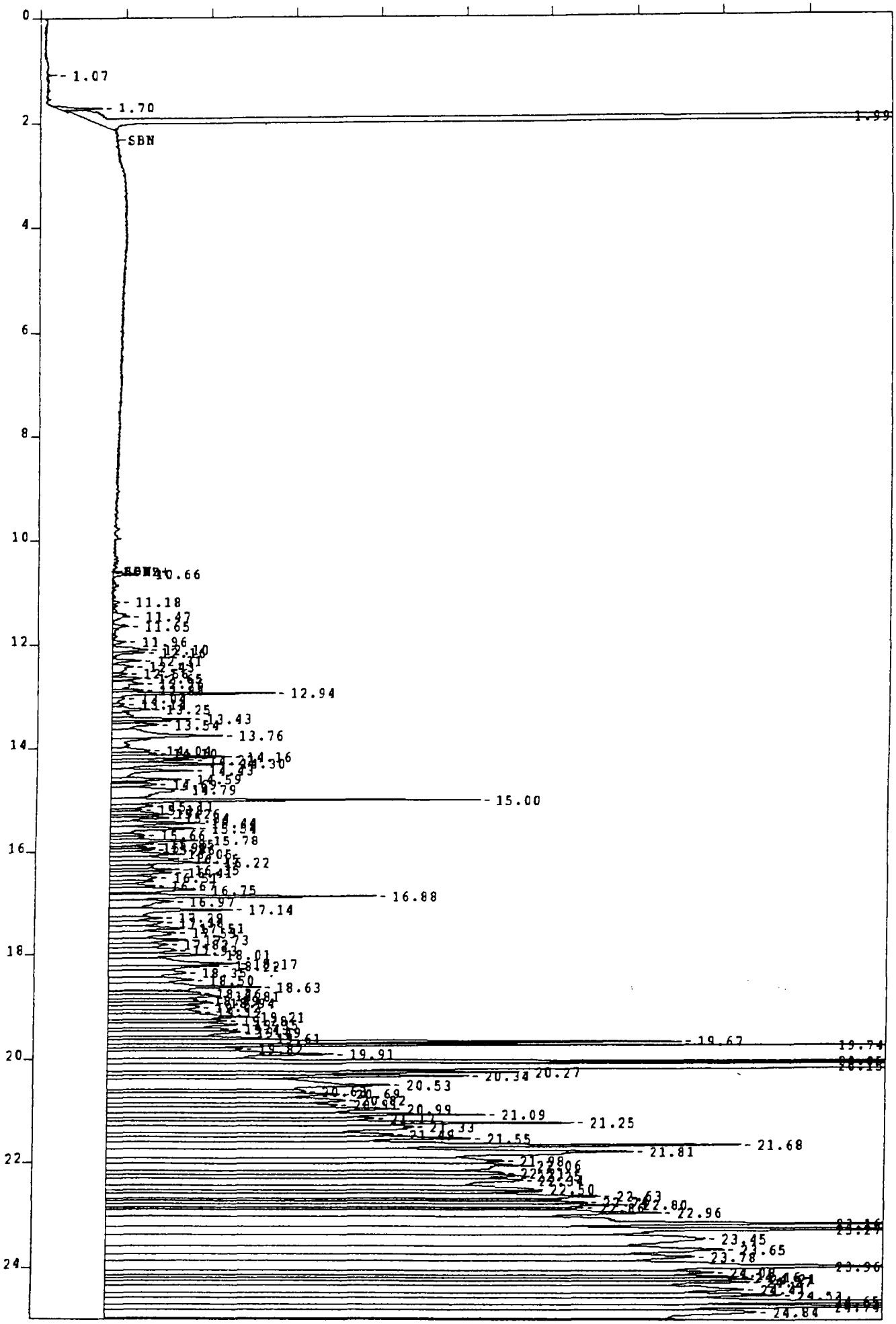
MIX A,B,C bk17,710 pgs 37,39,41
CS_2 HLC STD bk17,599 pg 39
CS_2 CHECK STD bk21,294 pg6

MIX 1,2,3 bk17,710 pgs 38,40,42
H_2O HLC CAL bk17,599 pg41
MeOH CHECK bk21,294 pg12

Miscellaneous Organics Data

Sample Data

File=C:\CP\DATA1\01267CB.05R Date printed=09-30-1998 Time= 17:20:49
Sample Name=3001161 AA T 982670002A
0.0 to 25.0 min. Low Y=0.883 High Y=3.883 mv Span=3.0



```
* Raw Data File Name:  C:\CP\DATA1\01267CB.05R                                  *
* Date taken:  Sep 24, 1998  13:20:31                Cycle:   5                 *
* Method File:  !!C:\CP\DATA1\01231TXB.MET           Version: -3                *
* Calibration File:  !!C:\CP\DATA1\01231TXB.CAL      Version: -10               *
* Time of Last Modification of Calibration:                                     *
* GC Clewmark #:  CP20--H3147B                       Operator: 719              *
*********************************************************************************
*****************************Analysis Conditions*****************************
Column:  SPB-5; 30M X 0.32mm, 1.0 um
GC Conditions:  35C 4 MIN.; 9C/MIN TO 220C; HOLD 1 MIN.
*********************************************************************************
Sample Weight/Volume (GM/ML) = .1064     Final Vol(ML)*DF = 10
*********************************************************************************
Integration parameters:
Threshold: 0          Peak width:  .05          Run time:  25
Area Reject:  0       Sampling Rate:  3         Delay Time:  0
Format File:  C:\CP\DATA1\BTEX.FMT
*********************************************************************************
```

Ret Time (min)	Expected RT	Peak Height	Peak Name	Sln. Conc. ug/ml	Peak Area	mg/tube (AM/1000)
1.067	0.000	34		0.0000	49	0.00000
1.698	0.000	157		0.0000	432	0.00000
1.994	0.000	68117		0.0000	229179	0.00000
10.656	10.519	93	o-Xylene	-11.7044	209	-0.11704
11.185	0.000	26		0.0000	104	0.00000
11.468	0.000	61		0.0000	302	0.00000
11.654	0.000	58		0.0000	149	0.00000
11.955	0.000	47		0.0000	146	0.00000
12.103	0.000	127		0.0000	454	0.00000
12.160	0.000	114		0.0000	321	0.00000
12.314	0.000	104		0.0000	262	0.00000
12.428	0.000	73		0.0000	434	0.00000
12.562	0.000	53		0.0000	128	0.00000
12.654	0.000	104		0.0000	312	0.00000
12.756	0.000	108		0.0000	610	0.00000
12.878	0.000	108		0.0000	250	0.00000
12.942	0.000	584		0.0000	1447	0.00000
13.040	0.000	45		0.0000	189	0.00000
13.145	0.000	47		0.0000	137	0.00000
13.250	0.000	134		0.0000	465	0.00000
13.434	0.000	278		0.0000	660	0.00000
13.542	0.000	166		0.0000	678	0.00000
13.756	0.000	393		0.0000	2027	0.00000
14.039	0.000	138		0.0000	557	0.00000
14.097	0.000	160		0.0000	469	0.00000
14.160	0.000	424		0.0000	1119	0.00000
14.215	0.000	288		0.0000	811	0.00000
14.296	0.000	401		0.0000	1587	0.00000
14.426	0.000	290		0.0000	1181	0.00000
14.592	0.000	248		0.0000	743	0.00000
14.691	0.000	160		0.0000	571	0.00000
14.789	0.000	227		0.0000	2025	0.00000
14.995	0.000	1308		0.0000	3348	0.00000
15.109	0.000	151		0.0000	622	0.00000
15.176	0.000	112		0.0000	266	0.00000
15.255	0.000	172		0.0000	633	0.00000
15.338	0.000	205		0.0000	728	0.00000
15.439	0.000	300		0.0000	1133	0.00000
15.541	0.000	303		0.0000	1143	0.00000
15.665	0.000	121		0.0000	398	0.00000
15.778	0.000	308		0.0000	1152	0.00000
15.849	0.000	154		0.0000	485	0.00000
15.917	0.000	128		0.0000	305	0.00000
15.960	0.000	159		0.0000	429	0.00000
16.046	0.000	220		0.0000	1022	0.00000

sum of peaks = 5128
point to point area sum under curve was 5663!

use this value!

$\frac{5663^{area}}{150.7129^{area/ppm}} \times \frac{10 ml}{0.1 ml} = 0.3757$ ~~ppm~~ ~~gr~~

3757 ppm

LOQ = 0.3 g (3000 ppm)

For total Hydrocarbon

35

(3) 152 wrong cal

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16.350	0.000	242	0.0000	627	0.00000
16.408	0.000	219	0.0000	902	0.00000
16.511	0.000	167	0.0000	654	0.00000
16.669	0.000	161	0.0000	520	0.00000
16.748	0.000	304	0.0000	1280	0.00000
16.879	0.000	949	0.0000	2732	0.00000
16.972	0.000	225	0.0000	1509	0.00000
17.139	0.000	434	0.0000	2093	0.00000
17.295	0.000	186	0.0000	666	0.00000
17.382	0.000	190	0.0000	978	0.00000
17.505	0.000	262	0.0000	1169	0.00000
17.588	0.000	235	0.0000	1481	0.00000
17.728	0.000	277	0.0000	1170	0.00000
17.817	0.000	208	0.0000	954	0.00000
17.930	0.000	238	0.0000	1289	0.00000
18.012	0.000	358	0.0000	1344	0.00000
18.174	0.000	454	0.0000	2401	0.00000
18.219	0.000	392	0.0000	1569	0.00000
18.350	0.000	274	0.0000	1885	0.00000
18.498	0.000	301	0.0000	1539	0.00000
18.630	0.000	541	0.0000	2914	0.00000
18.756	0.000	325	0.0000	1424	0.00000
18.815	0.000	391	0.0000	1594	0.00000
18.893	0.000	316	0.0000	1012	0.00000
18.944	0.000	372	0.0000	1294	0.00000
19.021	0.000	322	0.0000	1687	0.00000
19.122	0.000	327	0.0000	1321	0.00000
19.210	0.000	482	0.0000	2408	0.00000
19.281	0.000	419	0.0000	1541	0.00000
19.351	0.000	460	0.0000	2080	0.00000
19.435	0.000	424	0.0000	1429	0.00000
19.490	0.000	468	0.0000	2446	0.00000
19.609	0.000	540	0.0000	1704	0.00000
19.666	0.000	2030	0.0000	5933	0.00000
19.740	0.000	3295	0.0000	8089	0.00000
19.817	0.000	476	0.0000	1520	0.00000
19.912	0.000	800	0.0000	4839	0.00000
20.052	0.000	3753	0.0000	10631	0.00000
20.154	0.000	161271	0.0000	346480	0.00000
20.269	0.000	1465	0.0000	4633	0.00000
20.339	0.000	1279	0.0000	4296	0.00000
20.526	0.000	1004	0.0000	9371	0.00000
20.635	0.000	705	0.0000	2754	0.00000
20.690	0.000	822	0.0000	4126	0.00000
20.821	0.000	844	0.0000	5373	0.00000
20.908	0.000	817	0.0000	3418	0.00000
20.987	0.000	1006	0.0000	5362	0.00000
21.093	0.000	1344	0.0000	6214	0.00000
21.170	0.000	949	0.0000	3355	0.00000
21.253	0.000	1664	0.0000	7310	0.00000
21.331	0.000	1086	0.0000	8250	0.00000
21.487	0.000	1016	0.0000	3801	0.00000
21.551	0.000	1289	0.0000	6634	0.00000
21.679	0.000	2245	0.0000	11564	0.00000
21.812	0.000	1864	0.0000	15418	0.00000
21.983	0.000	1408	0.0000	8445	0.00000
22.059	0.000	1470	0.0000	11423	0.00000
22.205	0.000	1410	0.0000	5471	0.00000
22.255	0.000	1469	0.0000	6561	0.00000
22.338	0.000	1477	0.0000	10084	0.00000
22.495	0.000	1516	0.0000	7120	0.00000
22.635	0.000	1753	0.0000	10097	0.00000
22.745	0.000	1703	0.0000	5967	0.00000
22.802	0.000	1844	0.0000	6356	0.00000

See below

$\frac{5663}{242.30} \times \frac{10ml}{0.1ml} = 0.2337g$

LOQ = 0.23g or 2000ppm

DS 10/1/18

22.957	0.000	1966	0.0000	13898	0.00000
23.159	0.000	2892	0.0000	23804	0.00000
23.270	0.000	3277	0.0000	19738	0.00000
23.448	0.000	2121	0.0000	24564	0.00000
23.648	0.000	2192	0.0000	18806	0.00000
23.781	0.000	2088	0.0000	15741	0.00000
23.964	0.000	3115	0.0000	26103	0.00000
24.084	0.000	2156	0.0000	10425	0.00000
24.160	0.000	2244	0.0000	7129	0.00000
24.210	0.000	2293	0.0000	7371	0.00000
24.266	0.000	2281	0.0000	10711	0.00000
24.407	0.000	2260	0.0000	17873	0.00000
24.533	0.000	2390	0.0000	16319	0.00000
24.652	0.000	4361	0.0000	20183	0.00000
24.745	0.000	3680	0.0000	16985	0.00000
24.843	0.000	2307	0.0000	19909	0.00000

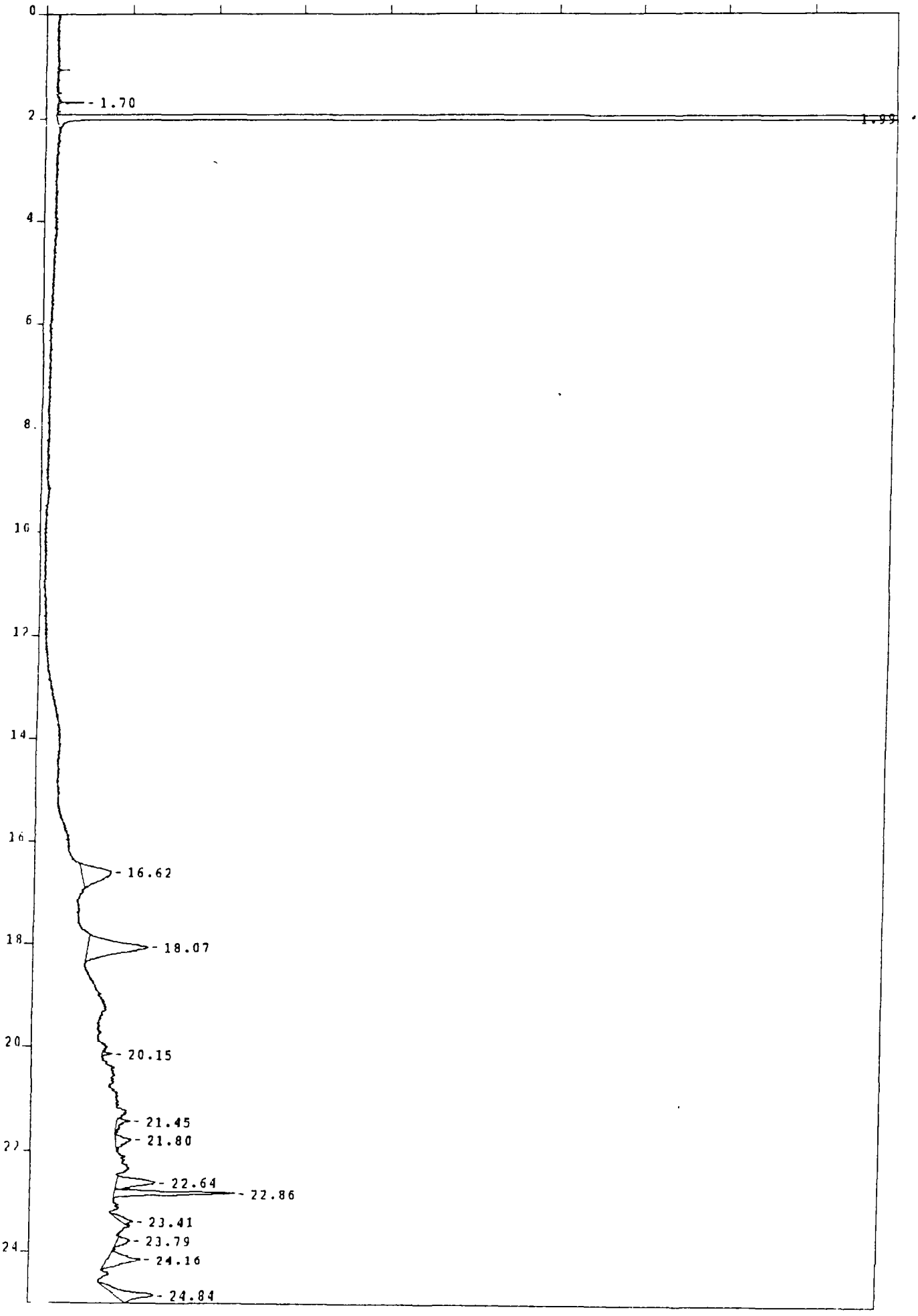
TOTAL AREA = 1136332

Chrom Perfect Version 6.07 Printed On 09-30-1998, 17:23:57

Reviewed By: Thanh 719 10/20/98

Verified By: [signature] 10/20/98

File=C:\CP\DATA1\01267CB.06R Date printed=09-24-1998 Time= 13:58:41
Sample Name=3001162 AA T 982670002A
0.0 to 25.0 min. Low Y=1.151 High Y=4.151 mv Span=3.0



```
********    Custom Report for Solvent Screen Analysis by GC/FID    ********
* Sample name:  3001162              AA              T    982670002A  Batch      *
* Raw Data File Name:  C:\CP\DATA1\01267CB.06R                                   *
* Date taken:  Sep 24, 1998  13:55:46                Cycle:   6                  *
* Method File:  C:\CP\DATA1\01220CB.MET              Version:  0                 *
* GC Clewmark #:  CP20--H3147B                       Operator: 719               *
*****************************************************************************
***************************Analysis Conditions*****************************
Column:  SPB-5; 30M X 0.32mm, 1.0 um
GC Conditions:  35C 4 MIN.; 9C/MIN TO 220C; HOLD 1 MIN.
*****************************************************************************
Sample Weight/Volume (GM/ML) = .1132     Final Vol(ML)*DF = 10
*****************************************************************************
Integration parameters:
Threshold: 1          Peak width:  .02          Run time:  25
Area Reject:  0       Sampling Rate:  3         Delay Time:  0
Format File:  C:\CP\DATA1\SSSMPHDR.FMT
*****************************************************************************
```

Peak Table Using Alcohol Mix Calibration:
Calibration File: C:\CP\DATA1\01220CLB.CAL- Version 53
Last Updated: 08/07/98 18:01:06

Ret time (min)	Expected ret time	Peak height	Peak name	Sample mg/kg (AM)	Peak Area	Sample % by wt. (AM/10000)
1.696	0.000	91		0.0000	112	0.0000
1.994	0.000	67974		0.0000	224081	0.0000
16.615	0.000	105		0.0000	1662	0.0000
18.069	0.000	217		0.0000	3110	0.0000
20.150	0.000	34		0.0000	85	0.0000
21.445	0.000	46		0.0000	309	0.0000
21.799	0.000	56		0.0000	487	0.0000
22.640	0.000	139		0.0000	1212	0.0000
22.862	0.000	427		0.0000	1880	0.0000
23.413	0.000	42		0.0000	318	0.0000
23.787	0.000	46		0.0000	354	0.0000
24.160	0.000	119		0.0000	1347	0.0000
24.845	0.000	136		0.0000	1173	0.0000

Total Height = 69431.5

For total Hydrocarbon ~~<0.38~~ (3) C5-C10 <0.23
10/1/98

Peak Table Using Mix A Calibration:
Calibration File: C:\CP\DATA1\01220CAB.CAL- Version 60
Last Updated: 08/07/98 18:22:24

Ret time (min)	Expected ret time	Peak height	Peak name	Sample mg/kg (AM)	Peak Area	Sample % by wt. (AM/10000)
1.696	1.658	91	N-PENTANE	13.6234	112	0.0014

Peak Table Using Mix B Calibration:
Calibration File: C:\CP\DATA1\01220CBB.CAL- Version 52
Last Updated: 08/07/98 18:27:38

Ret time (min)	Expected ret time	Peak height	Peak name	Sample mg/kg (AM)	Peak Area	Sample % by wt. (AM/10000)
1.696	1.701	91	DIETHYL ETHER	189.3995	112	0.0189

Peak Table Using Mix C Calibration:
Calibration File: C:\CP\DATA1\01220CCB.CAL- Version 57
Last Updated: 08/07/98 18:32:54

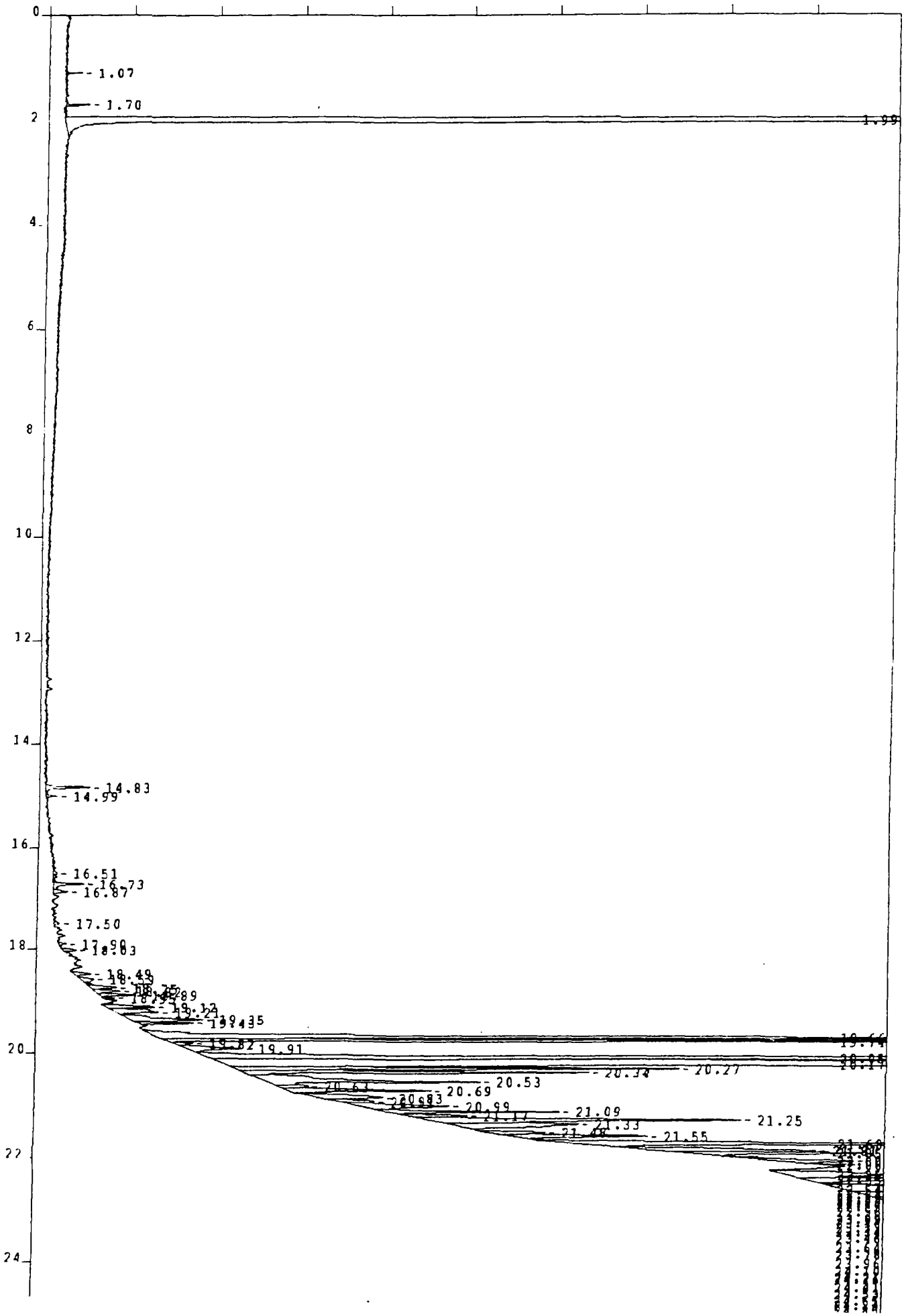
Ret time (min)	Expected ret time	Peak height	Peak name	Sample mg/kg (AM)	Peak Area	Sample % by wt. (AM/10000)

Chrom Perfect Version 6.07 Printed On 09-24-1998, 13:59:41

Reviewed by: JAM 1719 9/30/98

Verified by: JJ/52 9/30/98

File=C:\CP\DATA1\01267CB.07R Date printed=09-24-1998 Time= 14:34:27
Sample Name=3001163 AA T 982670002A
0.0 to 25.0 min. Low Y=1.126 High Y=4.126 mv Span=3.0



```
********    Custom Report for Solvent Screen Analysis by GC/FID    ********
* Sample name:  3001163            AA            T    982670002A  Batch     *
* Raw Data File Name:  C:\CP\DATA1\01267CB.07R                              *
* Date taken:  Sep 24, 1998  14:31:40            Cycle:   7                 *
* Method File:  C:\CP\DATA1\01220CB.MET          Version:  0                *
* GC Clewmark #:  CP20--H3147B                   Operator: 719              *
*****************************************************************************
***************************Analysis Conditions*****************************
Column:  SPB-5; 30M X 0.32mm, 1.0 um
GC Conditions:  35C 4 MIN.; 9C/MIN TO 220C; HOLD 1 MIN.
*****************************************************************************
Sample Weight/Volume (GM/ML) = .1003     Final Vol(ML)*DF = 10
*****************************************************************************
Integration parameters:
Threshold: 1          Peak width:  .02          Run time:  25
Area Reject:  0       Sampling Rate:  3         Delay Time:  0
Format File:  C:\CP\DATA1\SSSMPHDR.FMT
*****************************************************************************
```

Peak Table Using Alcohol Mix Calibration:
Calibration File: C:\CP\DATA1\01220CLB.CAL- Version 53
Last Updated: 08/07/98 18:01:06

Ret time (min)	Expected ret time	Peak height	Peak name	Sample mg/kg (AM)	Peak Area	Sample % by wt. (AM/10000)
1.067	0.000	57		0.0000	53	0.0000
1.697	0.000	89		0.0000	124	0.0000
1.994	0.000	68227		0.0000	228554	0.0000
14.828	0.000	155		0.0000	389	0.0000
14.994	0.000	41		0.0000	87	0.0000
16.510	0.000	14		0.0000	79	0.0000
16.729	0.000	107		0.0000	325	0.0000
16.874	0.000	51		0.0000	133	0.0000
17.500	0.000	21		0.0000	51	0.0000
17.903	0.000	27		0.0000	70	0.0000
18.025	0.000	44		0.0000	122	0.0000
18.490	0.000	60		0.0000	161	0.0000
18.594	0.000	47		0.0000	180	0.0000
18.749	0.000	92		0.0000	307	0.0000
18.816	0.000	90		0.0000	215	0.0000
18.887	0.000	129		0.0000	269	0.0000
18.946	0.000	37		0.0000	49	0.0000
19.118	0.000	172		0.0000	450	0.0000
19.206	0.000	151		0.0000	598	0.0000
19.346	0.000	254		0.0000	922	0.0000
19.429	0.000	191		0.0000	391	0.0000
19.663	0.000	4103		0.0000	9366	0.0000
19.738	0.000	7765		0.0000	16454	0.0000
19.818	0.000	60		0.0000	128	0.0000
19.913	0.000	192		0.0000	651	0.0000
20.052	0.000	8937		0.0000	20621	0.0000
20.167	0.000	411983		0.0000	944453	0.0000
20.269	0.000	1603		0.0000	3814	0.0000
20.339	0.000	1228		0.0000	2789	0.0000
20.526	0.000	768		0.0000	3078	0.0000
20.626	0.000	105		0.0000	341	0.0000
20.687	0.000	520		0.0000	1342	0.0000
20.826	0.000	243		0.0000	1010	0.0000
20.905	0.000	134		0.0000	395	0.0000
20.988	0.000	321		0.0000	1239	0.0000
21.092	0.000	616		0.0000	1575	0.0000
21.169	0.000	213		0.0000	490	0.0000
21.250	0.000	1096		0.0000	3444	0.0000
21.330	0.000	449		0.0000	1955	0.0000
21.480	0.000	204		0.0000	495	0.0000
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]

Total hydrocarbons
C5-C10
<0.2%

21.680	0.000	1754	0.0000	5105	0.0000
21.807	0.000	547	0.0000	1689	0.0000
21.851	0.000	611	0.0000	1625	0.0000
21.996	0.000	250	0.0000	851	0.0000
22.061	0.000	68	0.0000	96	0.0000
22.254	0.000	356	0.0000	1905	0.0000
22.349	0.000	396	0.0000	1548	0.0000
22.537	0.000	489	0.0000	2486	0.0000
22.634	0.000	870	0.0000	3542	0.0000
22.695	0.000	777	0.0000	1800	0.0000
22.739	0.000	617	0.0000	1551	0.0000
22.800	0.000	1139	0.0000	3781	0.0000
22.851	0.000	796	0.0000	1717	0.0000
22.957	0.000	1298	0.0000	7272	0.0000
23.094	0.000	999	0.0000	4928	0.0000
23.163	0.000	4022	0.0000	13250	0.0000
23.267	0.000	1901	0.0000	7853	0.0000
23.336	0.000	1197	0.0000	3430	0.0000
23.455	0.000	1504	0.0000	14466	0.0000
23.640	0.000	1734	0.0000	13111	0.0000
23.779	0.000	1444	0.0000	9206	0.0000
23.964	0.000	2381	0.0000	18100	0.0000
24.095	0.000	1194	0.0000	4466	0.0000
24.210	0.000	1335	0.0000	6947	0.0000
24.257	0.000	1190	0.0000	4694	0.0000
24.409	0.000	1319	0.0000	8878	0.0000
24.529	0.000	1409	0.0000	7968	0.0000
24.653	0.000	1959	0.0000	8902	0.0000
24.744	0.000	2249	0.0000	6784	0.0000
24.847	0.000	904	0.0000	5177	0.0000

Total Height = 547783.1

Peak Table Using Mix A Calibration:
Calibration File: C:\CP\DATA1\01220CAB.CAL- Version 60
Last Updated: 08/07/98 18:22:24

Ret time (min)	Expected ret time	Peak height	Peak name	Sample mg/kg (AM)	Peak Area	Sample % by wt. (AM/10000)
1.697	1.658	89	N-PENTANE	13.6569	124	0.0014

Peak Table Using Mix B Calibration:
Calibration File: C:\CP\DATA1\01220CBB.CAL- Version 52
Last Updated: 08/07/98 18:27:38

Ret time (min)	Expected ret time	Peak height	Peak name	Sample mg/kg (AM)	Peak Area	Sample % by wt. (AM/10000)
1.697	1.701	89	DIETHYL ETHER	211.4359	124	0.0211

Peak Table Using Mix C Calibration:
Calibration File: C:\CP\DATA1\01220CCB.CAL- Version 57
Last Updated: 08/07/98 18:32:54

Ret time (min)	Expected ret time	Peak height	Peak name	Sample mg/kg (AM)	Peak Area	Sample % by wt. (AM/10000)

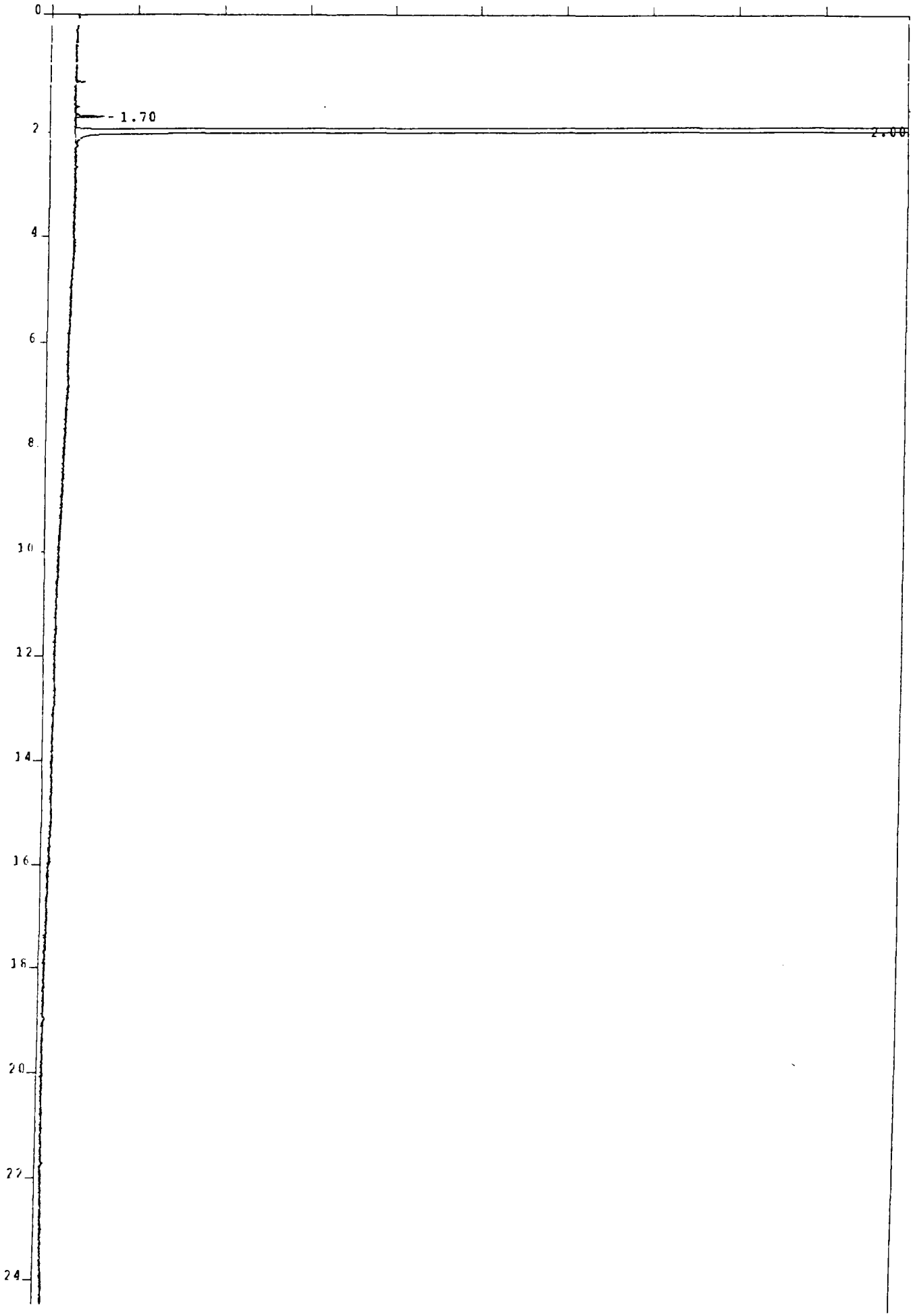
Chrom Perfect Version 6.07 Printed On 09-24-1998, 14:35:30

Reviewed by: TAM 719 9/25/98

Verified by: 9/30/98

Raw QC Data

File=C:\CP\DATA1\01267CB.04R Date printed=09-24-1998 Time= 12:44:37
Sample Name=BLANKA AA BLK 982670002A
0.0 to 25.0 min. Low Y=0.818 High Y=3.818 mv Span=3.0



******** Custom Report for Solvent Screen Analysis by GC/FID ********
* Sample name: BLANKA AA BLK 982670002A Batch *
* Raw Data File Name: C:\CP\DATA1\01267CB.04R *
* Date taken: Sep 24, 1998 12:44:34 Cycle: 4 *
* Method File: C:\CP\DATA1\01220CB.MET Version: 0 *
* GC Clewmark #: CP20--H3147B Operator: 719 *

**********Analysis Conditions**********

Column: SPB-5; 30M X 0.32mm, 1.0 um
GC Conditions: 35C 4 MIN.; 9C/MIN TO 220C; HOLD 1 MIN.

Sample Weight/Volume (GM/ML) = 1 Final Vol(ML)*DF = 1

Integration parameters:
Threshold: 1 Peak width: .02 Run time: 25
Area Reject: 0 Sampling Rate: 3 Delay Time: 0
Format File: C:\CP\DATA1\SSSMPHDR.FMT

Peak Table Using Alcohol Mix Calibration:
Calibration File: C:\CP\DATA1\01220CLB.CAL- Version 53
Last Updated: 08/07/98 18:01:06

Ret time (min)	Expected ret time	Peak height	Peak name	Sample mg/kg (AM)	Peak Area	Sample % by wt. (AM/10000)
1.704	0.000	102		0.0000	134	0.0000
2.004	0.000	68733		0.0000	232935	0.0000

Total Height = 68834.91

Peak Table Using Mix A Calibration:
Calibration File: C:\CP\DATA1\01220CAB.CAL- Version 60
Last Updated: 08/07/98 18:22:24

Ret time (min)	Expected ret time	Peak height	Peak name	Sample mg/kg (AM)	Peak Area	Sample % by wt. (AM/10000)
1.704	1.658	102	N-PENTANE	0.2199	134	0.0000

Peak Table Using Mix B Calibration:
Calibration File: C:\CP\DATA1\01220CBB.CAL- Version 52
Last Updated: 08/07/98 18:27:38

Ret time (min)	Expected ret time	Peak height	Peak name	Sample mg/kg (AM)	Peak Area	Sample % by wt. (AM/10000)
1.704	1.701	102	DIETHYL ETHER	2.2328	134	0.0002

Peak Table Using Mix C Calibration:
Calibration File: C:\CP\DATA1\01220CCB.CAL- Version 57
Last Updated: 08/07/98 18:32:54

Ret time (min)	Expected ret time	Peak height	Peak name	Sample mg/kg (AM)	Peak Area	Sample % by wt. (AM/10000)

Chrom Perfect Version 6.07 Printed On 09-24-1998, 12:45:36

Reviewed by: _____ 9/25/98

Verified by: _____ 9/30/98

Extraction/Distillation/Digestion Logs

Organic Extraction Batchlog

Prep Analysis # 00380 Extraction - Solvent screen

Prep Group # 341 Solvent Screen-Liquids Dept: 32

Reviewed: [illegible]

Start Date: 9-24-98

Start Time: 9:30

Tech 1: TMW/719

Tech 2:

BATCH NO. 982670002A

QC	Sample Code	Amt (mL)	SS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	Comments
BLANKA	PBLKRW	1	—				1	N/A	N/A	

	Sample #	Sample Code	Amt (g)	SS Sol.	Amt (mL)	FV (mL)	pH	pH	Comments	Analyses		Due Date	Pri
1	3001161	SVE11	.1064			10	N/A	N/A	CS2	445	466	10/1/98	P
2	3001162	WESTS	.1137			↓	↓	↓		445	466	10/1/98	P
3	3001163	SOUTS	.1003			↓	↓	↓	top layer ↓	445	466	10/1/98	P
4													
5	3001161		.1095			10	N/A	N/A	MeOH				
6	3001162		.1135			↓	↓	↓					
7	3001163		.1130			↓	↓	↓	bottom layer ↓				
8													
9	3001162		.1023			10	N/A	N/A	DI H2O				
10	3001163		.1008			↓	↓	↓	bottom layer ↓				
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

Additional Comment:

DF = Dilution Factor FV = Final Volume

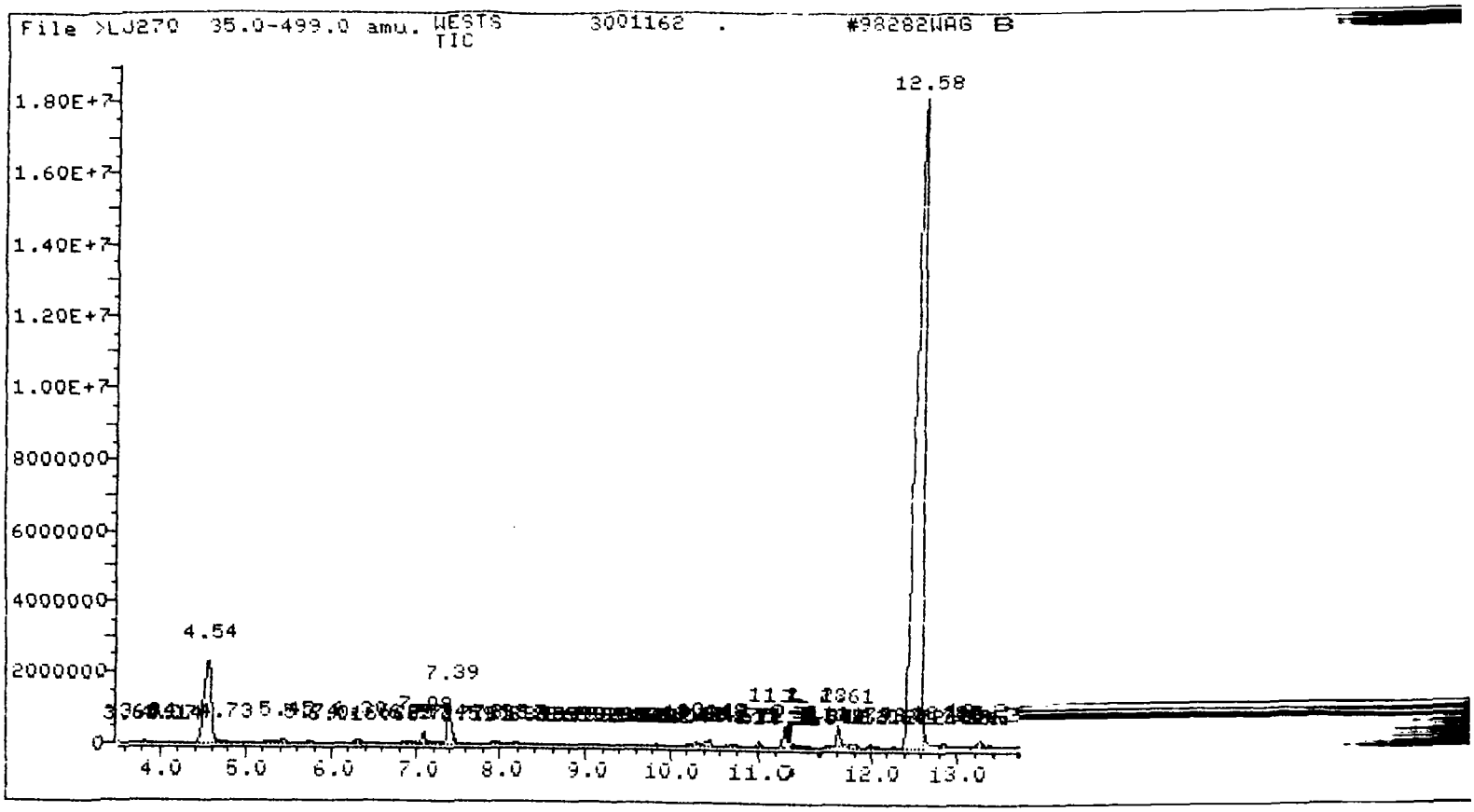
page 1 of 1

Solvent Used	Lot No.	Solvent Used	Lot No.
CS2	M13421		
DI H2O			
MeOH	37329		
Internal Standar		Balance #	

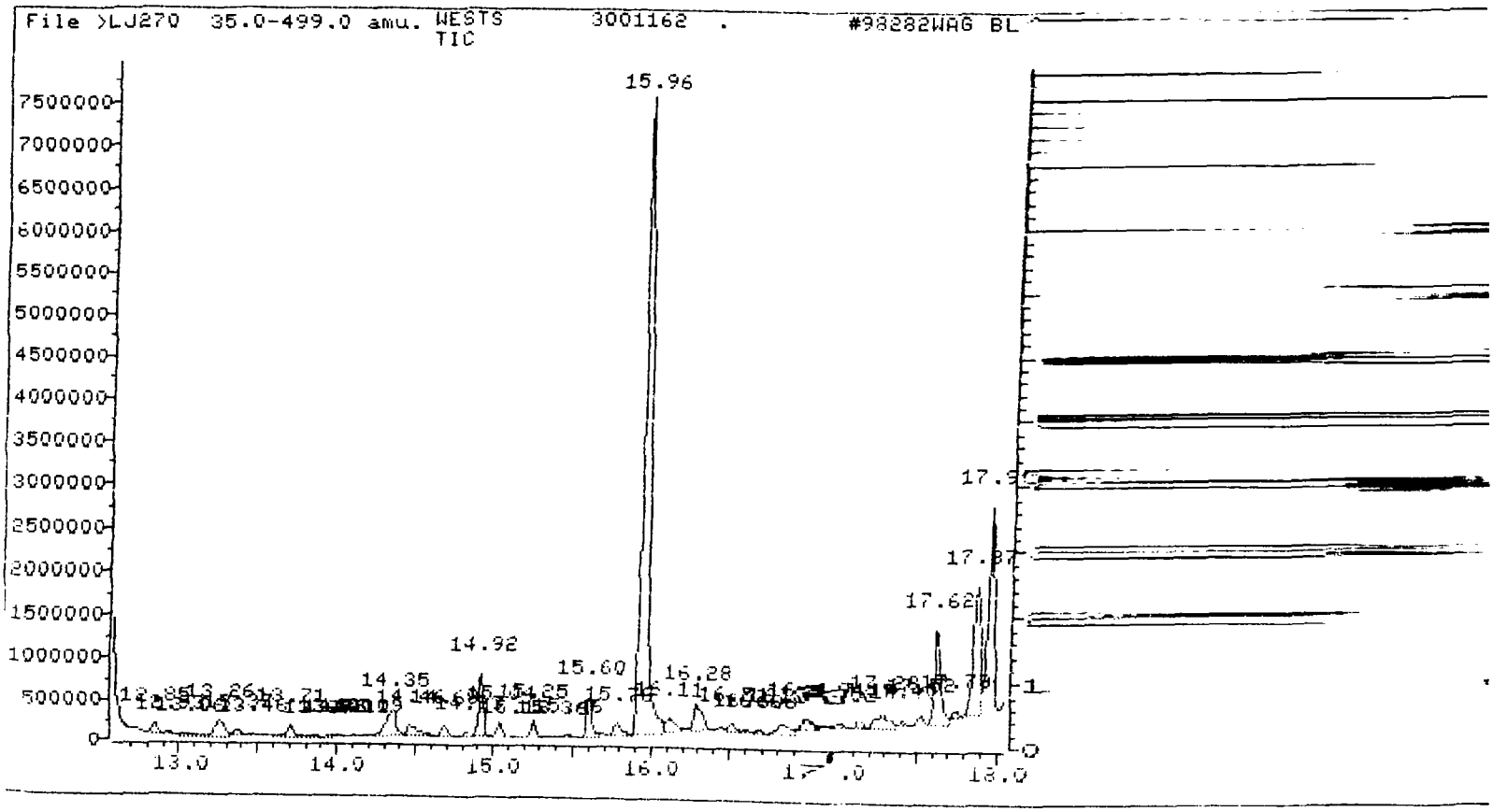
S-Evap/bath	°C	S-Evap/bath	°C	N-Evap	°C

MIX A,B,C bk17,710 pgs 37,39,41
CS2 HLC STD bk17,599 pg 39
CS2 CHECK STD bk21,294 pg6

MIX 1,2,3 bk17,710 pgs 38,40,42
H2O HLC CAL bk17,599 pg41
MeOH CHECK bk21,294 pg12



INSTRUMENT ID ANALYSIS DATE/TIME
HP06754 10/12/98 19:18



DAYTON THERMAL PRODUCTS PLANT
DAYTON, OHIO

FREE-PHASE PRODUCT ANALYSIS
SVE-11D, WEST SUMP, AND SOUTH SUMP
UNITS ARE IN MICROGRAMS PER LITER (ug/L)

WELL	SAMPLE COLLECTION DATE	Total Hydrocarbons	PCB-1260	2-Methyl-naphthalene	Butylbenzyl-phthalate	bis(2-ethylhexyl)-phthalate	Phenol	2-methyl-phenol	3 & 4-methyl-phenol	2, 4-methyl-phenol	N-nitrosodi-phenylamine	Diesel #2 Fuel
OEPA VAP MCLs (ug/L)		—	0.5	—	—	6.0	9,400	—	—	—	—	—
SVE-11D *	15-Sep-98	**2,300,000**	1080 J	23,000 J	97,000 J	21,000 J	< 100,000	—	—	—	—	—
WEST SUMP	15-Sep-98	< 2,000,000	< 1,000	< 5,000	< 5,000	25 J	54 J	22 J	**42,000**	33 J	38 J	**710,000**
SOUTH SUMP	15-Sep-98	< 2,000,000	< 1,000	< 1,000	< 1,000	< 1,000	—	—	—	—	< 1,000	**5,500,000**

NUMBERS IN BOLD WERE DETECTED ABOVE THE LABORATORY METHOD DETECTION LIMIT
J: ESTIMATED VALUE
SHADED NUMBERS EXCEED OEPA VAP MCLs
OEPA VAP MCLs: OHIO ENVIRONMENTAL PROTECTION AGENCY VOLUNTARY ACTION PROGRAM MAXIMUM CONTAMINANT LEVELS FOR GENERIC UNRESTRICTED POTABLE USE STANDARDS, 1998 2nd ADDITION
WEST SUMP: WASTE OIL SUMP
SOUTH SUMP: TRADE WASTE SUMP
SVE-11D*: WELL CONTAINING FREE-PHASE PRODUCT, UNITS ARE ug/Kg
NOTE: Only compounds that were detected are listed on this table.

EPA Region 5 Records Ctr.
349830

CompuChem
a Division of Liberty Analytical
501 N. Madison Avenue
Cary, NC 27513

EPA Region 5 Records Ctr.
349831

SDG NARRATIVE
CASE:34180
SDG:21501
CONTRACT:500944

SAMPLE IDENTIFICATIONS: TB-21-3-5 TB-21-9-11 TB-21-15-17 MW-21S2-4 MW-21S8-10 MW21S18-20 MW-22S5-7 MW-22S10-12 MW-22S19-21 MW-23S-20-22 DP1-.5-4.5 DP2-.5-4.5 DP3-.5-4.5 DP4-.5-4.5 DP5-1-5 DP6-1-6 DP7-.5-4.5 DP8-.5-4.5 DP9-.5-4.5 DP10-.5-4.5

The twenty(20) soil samples listed above were received intact, properly refrigerated, with proper chain of custody(COC) documentation on March 12, and 16, 1999. The samples were submitted for volatile only analysis.

VOLATILES:

Analysis holding time requirements were met for these samples. The target analytes trichloroethene, tetrachloroethene, cis-1,2-dichloroethene, and acetone were the most frequently identified above the reporting limits.
Samples DP10-.5-4.5 and DP6-1-6 were reanalyzed as medium level samples due to high levels of trichloroethene and/or tetrachloroethene.
Sample DP10-.5-4.5 was analyzed at a 6.7:1 dilution of the medium level extract due to high levels of trichloroethene.

No Tentatively Identified Compound (TIC) data was requested by the client. Sample MW-22S19-21 was diluted due to high levels of late eluting TICs, that can cause instrument contamination and downtime. For this one sample we have provided the Form1E listing these TICs and their estimated concentrations.

All of the surrogates met recovery criteria, and all of the internal standards met response and retention time criteria in the analyses of these samples.

The associated method blanks met all quality control criteria and did not contain any of the requested target analytes above the reporting limits.

The associated Laboratory Control Samples(LCSs) met all QC acceptance limits.

The low level duplicate matrix spikes generated from TB-21-9-11 met all QC spike recovery and precision requirements with exceptions. The spike compound tetrachloroethene exceeded recovery limits in both matrix spikes.

The medium level matrix spikes generated from DP10-.5-4.5 met all QC spike precision and accuracy criteria with exceptions. The quantitation ion for the spike compound 1,1-dichloroethene had a split signal causing recoveries for this analyte to fail low and also cause the RPD to fail. The spike compound trichloroethene failed low for recovery in both matrix spikes.

The initial calibrations analyzed for this case were analyzed by Method 8260B. Per the methodology, all compounds are to meet a Percent Relative Standard Deviation(%RSD) limit of no more than 15%. CompuChem has chosen to apply the option in this method of determining the mean RSD values for all analytes in the calibration.
When there are analytes with %RSDs greater than the limit, proof of calibration linearity can be shown if the average of all compounds in the initial calibration meet the same 15% limit. Based on Method 8260B requirements we are providing a list which shows all compounds that fail to meet the limit(designated by the <- sign), and their associated %RSDs. Finally the average of all %RSDs from all compounds in the initial calibration is shown, confirming the useability of the initial calibration and any data that follows it.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions listed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee,as verified by the following signature.

Roy M. Sutton
Development Chemist
March 26, 1999

GC and GC/MS Column and Trap Specifications Table

COLUMNS

Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
GC Laboratory				
Restek	RTX-1701	0.53	0.5	30
J & W	DB-608	0.53	0.83	30
Restek	CLPesticides	0.53	0.5	30
Restek	CLPesticides II	0.53	0.42	30
GC/MS Volatiles Laboratory				
J & W	DB-624	0.53	3.0	30/75
Supelco	SPB-624	0.53	3.0	75
GC/MS Semivolatiles Laboratory				
J & W	DB-5	0.32	1.0	30
Hewlett Packard	HP5-MS	0.25	0.25	30

TRAP

GC/MS Volatiles Laboratory	
	* 1 cm of methyl silicone packing (OV-1 coating) * 8 cm of 2,6-diphenylene oxide polymer (Tenax) * 8 cm of silica gel * 7 cm of coconut charcoal * 0.5 cm of silanized glass wool at each end

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These adjustments are performed by the data reviewer, GC/MS operator, or GC chemist. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration of each compound to demonstrate the accuracy of that process. Adjustments are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count as possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that the data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

With the introduction of the current EPA CLP SOW (Document Number OLM03.0, plus revisions) additional explanations for manual editing integration are required. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings:

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC data packages.

Robert E. Meierer
Vice President

Revision 4 (10/8/97)

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL) (or Reporting Limit) will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1.0 is assumed for the TIC analyte.

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicates the presence of a compound that meets the pesticide/Aroclor or other GC or HPLC identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search. For generic characterization of a TIC such as 'chlorinated hydrocarbon', the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range will have the concentration flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Form Is are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses are not combined on a single Form I.

A : This flag indicates that a TIC is a suspected aldol-condensation product.

S : This flag indicates that an analyte was detected by a single column GC analysis but the result was below the Reporting Limit. This flag is only used when clients request a second (confirmation) column analysis after detecting an analyte above the Reporting Limit in the initial, single column analysis. This flag alerts the data user that only an analyte was detected below the Reporting Limit and a second (confirmation) analysis was not performed.

X,Y,Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y and Z.

Revision 4 (8-19-98)

Laboratory Notice

Initial Calibration Date(s). March 01, 1999

Instrument Identifier: INCOS52

An initial calibration was analyzed by Method 8260B. Per the methodology, all compounds are to meet a Percent Relative Standard Deviation (%RSD) limit of no more than 15%. Additional calibration options are provided in the method when the RSD exceeds 15%. CompuChem has chosen to apply the option of determining the mean RSD values for all analytes in the calibration.

When there are analytes with %RSDs greater than the limit, proof of calibration linearity can be shown if the average of all compounds in the initial calibration meet the same 15% limit. Based on Method 8260B requirements, we are providing a list which shows all compounds that fail to meet the limit (designated by the <- sign), and their associated %RSDs. Finally the average of all %RSDs from all compounds in the initial calibration is shown, confirming the usability of the initial calibration and any data that follows it.

Average %RSD for all compounds in this Initial Calibration:6.628

Data Reviewer/ID# _____/2377

Date March 03,1999

Report Date : 03-Mar-1999 13:19

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-1999 22:19
End Cal Date : 02-MAR-1999 02:03
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50052.i/f990301b.b/S8260-B-5GM.m
Cal Date : 03-Mar-1999 13:15 thornton
Curve Type : Average

Calibration File Names:
Level 1: /chem/f50052.i/f990301b.b/gu990301b52.d
Level 2: /chem/f50052.i/f990301b.b/gv990301b52.d
Level 3: /chem/f50052.i/f990301b.b/gt990301b52.d
Level 4: /chem/f50052.i/f990301b.b/gw990301b52.d
Level 5: /chem/f50052.i/f990301b.b/gx990301b52.d

Compound	50 Level 1	100 Level 2	250 Level 3	500 Level 4	1000 Level 5	RRF	% RSD	
8 Dichlorodifluoromethane	0.85929	0.94330	0.97974	1.07207	1.01715	0.97431	8.213	
9 Chloromethane	0.39557	0.44814	0.43610	0.47368	0.44559	0.43982	6.452	
10 Vinyl Chloride	0.44166	0.52015	0.50868	0.55356	0.51353	0.50752	8.036	
11 Bromomethane	0.42871	0.47517	0.48000	0.51274	0.48363	0.47605	6.355	
12 Chloroethane	0.27699	0.29620	0.27287	0.29224	0.27133	0.28233	4.009	
13 Trichlorofluoromethane	1.07298	1.18716	1.13954	1.30757	1.09142	1.15973	8.090	
14 Diethylether	0.13472	0.13096	0.13090	0.13164	0.12985	0.13161	1.405	
15 Acrolein	0.01435	0.01687	0.01639	0.01958	0.02183	0.01780	16.403	<-
16 1,1-Dichloroethene	0.34252	0.37145	0.40473	0.42351	0.41947	0.39234	8.811	
17 Iodomethane	1.01239	0.95785	0.93668	1.02329	1.01775	0.98959	3.996	
18 1,1,1-trichloro-2,2,2-trifluo	0.46425	0.45298	0.44841	0.48457	0.47938	0.46592	3.403	
19 Carbon disulfide	1.60922	1.50913	1.50094	1.61232	1.49874	1.54607	3.829	
20 1,1,2-trichloro-1,2,2-trifluo	0.55525	0.53296	0.53120	0.57753	0.53927	0.54724	3.547	
21 Acetone	0.10509	0.09588	0.08907	0.08256	0.07653	0.08983	12.444	
22 3-Chloropropene	0.20909	0.19785	0.20223	0.21854	0.20374	0.20629	3.848	
23 Acetonitrile	0.68999	0.65134	0.64704	0.69207	0.65522	0.66713	3.301	
24 Methylene Chloride	1.02288	0.96804	0.89974	0.93086	0.88626	0.94155	5.874	
25 trans-1,2-Dichloroethene	0.37629	0.40064	0.42784	0.46074	0.45787	0.42467	8.597	
26 Acrylonitrile	0.04312	0.03998	0.04823	0.04817	0.04570	0.04704	5.668	
27 Methyl-tert-butyl ether	0.85927	0.83455	0.80562	0.84168	0.80094	0.82841	2.982	
28 tert-butyl alcohol	0.02563	0.02442	0.02863	0.02941	0.02419	0.02646	9.151	
29 n-hexane	0.47522	0.47286	0.43835	0.47508	0.44051	0.46000	4.434	
30 1,1-Dichloroethane	0.85763	0.89606	0.90486	0.97171	0.87030	0.90011	4.924	
31 Vinyl acetate	0.43734	0.46782	0.41866	0.42568	0.38896	0.42769	6.704	
32 2,2-Dichloropropane	0.75632	0.81517	0.82523	0.89458	0.84316	0.82689	6.037	
33 cis-1,2-Dichloroethene	0.41972	0.43487	0.44312	0.46531	0.44502	0.44161	3.756	
34 2-Butanone	0.02156	0.02600	0.02706	0.02357	0.02046	0.02373	11.858	

6 of 8

Report Date : 03-Mar-1999 13:19

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-1999 22:19
End Cal Date : 02-MAR-1999 02:03
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50052.i/f990301b.b/S8260-B-5GM.m
Cal Date : 03-Mar-1999 13:15 thornton
Curve Type : Average

Compound	50 Level 1	100 Level 2	250 Level 3	500 Level 4	1000 Level 5	RRF	% RSD
35 Propionitrile	0.10021	0.10397	0.09266	0.08530	0.08099	0.09263	10.457
36 Bromochloromethane	0.20546	0.22331	0.21550	0.22140	0.20675	0.21448	3.815
37 Methyl acrylate	0.24279	0.22837	0.21709	0.21368	0.19589	0.21956	7.948
38 Methacrylonitrile	0.13827	0.12913	0.12158	0.11869	0.11696	0.12492	7.038
39 Tetrahydrofuran	0.05366	0.07455	0.06526	0.06333	0.05490	0.06234	13.640
40 Chloroform	0.90255	0.94445	0.98183	1.05470	0.99296	0.97530	5.823
41 1,1,1-Trichloroethane	0.79796	0.84747	0.86969	0.95809	0.91613	0.87787	7.039
42 1-chlorobutane	1.06511	0.98282	0.96098	1.02112	0.89859	0.98572	6.369
43 Carbon Tetrachloride	0.75232	0.78150	0.79778	0.88724	0.85658	0.81508	6.802
44 1,1-dichloropropene	0.65143	0.67707	0.67578	0.71790	0.67037	0.67851	3.581
45 Pentafluorobenzene	1.27520	1.14676	1.08089	1.10947	1.00921	1.12431	8.740
46 Benzene	1.15356	1.18734	1.19603	1.24871	1.15217	1.18756	3.320
47 1,2-Dichloroethane	0.50678	0.53505	0.52556	0.56089	0.51845	0.52934	3.860
48 Isobutyl alcohol	0.00567	0.00565	0.00508	0.00487	0.00480	0.00521	8.031
49 Crotonaldehyde	0.02384	0.02653	0.02356	0.02606	0.02528	0.02505	5.255
50 Trichloroethene	0.55804	0.58193	0.57806	0.61534	0.62703	0.59208	4.793
51 1,2-Dichloropropane	0.49828	0.51567	0.50824	0.52678	0.48445	0.50668	3.201
52 Dibromomethane	0.37354	0.39066	0.38762	0.40532	0.40280	0.39199	3.267
53 1,4-Dioxane	0.00122	0.00128	0.00118	0.00119	0.00125	0.00122	3.293
54 Methylmethacrylate	1.13103	1.07397	[illegible]	1.02738	0.96874	1.04384	5.883
55 Bromodichloromethane	0.93819	0.97667	1.00231	1.10057	1.06578	1.01670	6.490
56 2-chloroethyl vinyl ether	0.01638	0.02098	0.02061	0.02573	0.03031	0.02280	23.436 <-
57 cis-1,3-Dichloropropene	0.62400	0.64184	0.64614	0.72698	0.67912	0.66362	6.123
58 4-Methyl-2-pentanone	0.28885	0.29223	0.28246	0.27384	0.25921	0.27932	4.743
59 Toluene	0.76302	0.73730	0.73249	0.78852	0.73582	0.75155	3.188
60 trans-1,3-Dichloropropene	0.48043	0.49234	0.49116	0.54196	0.52560	0.50630	5.167
61 1,1,2-Trichloroethane	0.30135	0.30733	0.30719	0.32937	0.30706	0.31046	3.501
62 Ethylmethacrylate	0.50054	0.45045	0.43175	0.42998	0.40735	0.44402	7.905
63 Tetrachloroethene	0.49917	0.48694	0.47401	0.56122	0.55999	0.51626	8.028
64 1,3-Dichloropropane	0.54246	0.54653	0.53612	0.56595	0.53836	0.54588	2.180
65 2-hexanone	0.21515	0.20438	0.19611	0.19093	0.18227	0.19777	6.374
66 Dibromochloromethane	0.57621	0.57985	0.59526	0.63264	0.62830	0.60245	4.416
67 1,2-Dibromoethane	0.45701	0.45892	0.46001	0.49574	0.47165	0.46867	3.453
68 Chlorobenzene	0.83537	0.81546	0.80015	0.89821	0.91111	0.85206	5.847

Report Date : 03-Mar-1999 13:46

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-1999 22:19
End Cal Date : 02-MAR-1999 02:03
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50052.i/f990301b.b/S8260-B-5GM.m
Cal Date : 03-Mar-1999 13:15 thornton
Curve Type : Average

Compound	50 Level 1	100 Level 2	250 Level 3	500 Level 4	1000 Level 5	RRF	% RSD
69 1-Chlorohexane	0.70725	0.61012	0.53766	0.60016	0.54244	0.59953	11.436
70 1,1,1,2-Tetrachloroethane	0.48987	0.47364	0.47206	0.52570	0.51797	0.49585	5.017
71 Ethylbenzene	0.40297	0.39303	0.40098	0.43683	0.43677	0.41411	5.080
72 m,p-Xylene	0.52298	0.50549	0.51632	0.59779	0.60056	0.54863	8.489
73 o-Xylene	0.50314	0.48832	0.49286	0.58152	0.58267	0.52970	9.086
74 Styrene	0.80655	0.78049	0.80893	0.94773	0.95387	0.85951	9.785
75 Bromoform	0.41880	0.40364	0.40592	0.43369	0.43342	0.41909	3.439
76 Isopropyl Benzene	1.47351	1.37789	1.40711	1.60504	1.65454	1.50362	8.084
77 cis-1,4-dichloro-2-butene	0.29898	0.29022	0.31582	0.28551	0.28886	0.29588	4.126
78 Bromobenzene	0.49131	0.46452	0.45106	0.51260	0.49064	0.48203	5.040
79 1,2,3-Trichloropropane	0.80432	0.75426	0.76541	0.77313	0.72047	0.76352	3.983
80 1,1,2,2-Tetrachloroethane	0.60770	0.56456	0.54393	0.58172	0.56511	0.57260	4.150
81 trans-1,4-dichloro-2-butene	0.30212	0.28453	0.32661	0.29084	0.26567	0.29396	7.666
82 n-Propyl Benzene	2.78624	2.61224	2.78565	2.94453	2.78382	2.78250	4.224
83 2-Chlorotoluene	0.57080	0.52326	0.51631	0.53283	0.56276	0.54119	4.480
84 4-Chlorotoluene	2.34194	2.25224	2.33035	2.58361	2.47176	2.39598	5.475
85 1,3,5-Trimethyl Benzene	1.79843	1.64462	1.74110	1.91515	1.90655	1.80117	6.344
86 Pentachloroethane	0.60291	0.55375	0.53811	0.47254	0.46652	0.52676	10.916
87 tert-Butyl Benzene	2.45116	2.21053	2.26561	2.35409	2.47558	2.35139	4.876
88 1,2,4-Trimethyl Benzene	1.87117	1.62491	1.78343	1.83847	2.00141	1.82368	7.513
89 sec-Butyl Benzene	2.65301	2.34862	2.52260	2.61660	2.68695	2.56556	5.298
90 1,3-Dichlorobenzene	1.37822	1.18377	1.21218	1.21742	1.26119	1.25056	6.121
91 1,4-Dichlorobenzene	1.36689	1.22795	1.25400	1.33780	1.30424	1.29817	4.427
92 p-Isopropyl Toluene	2.07475	1.87645	2.08963	2.26019	2.21297	2.10280	7.098
93 Benzyl Chloride	1.10058	1.02994	1.03411	1.00194	1.02133	1.03758	3.598
94 1,2-Dichlorobenzene	1.21349	1.04928	1.07245	1.11086	1.15282	1.11938	5.884
95 n-Butyl Benzene	2.16937	1.89131	2.06564	2.30105	2.26341	2.13815	7.734
96 1,2-diethylbenzene	1.14974	1.03935	1.00031	1.05680	1.09046	1.06727	5.286
97 1,2-Dibromo-3-Chloropropane	0.24185	0.22216	0.23285	0.22728	0.23687	0.23220	3.340
98 1,2,4-Trichlorobenzene	1.11513	1.00006	0.87718	0.88349	0.88448	0.93207	11.016
99 Hexachlorobutadiene	0.99734	0.78478	0.79323	0.78595	0.74951	0.82216	12.089
100 Naphthalene	1.32106	1.06712	1.04580	1.04365	1.06999	1.10952	10.713
101 1,2,3-Trichlorobenzene	0.97886	0.77541	0.74915	0.73594	0.72285	0.79244	13.378
M 102 1,2-Dichloroethene (total)	0.39801	0.41776	0.43548	0.46303	0.45144	0.43314	6.003

Report Date : 03-Mar-1999 13:46

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-1999 22:19
End Cal Date : 02-MAR-1999 02:03
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50052.i/f990301b.b/S8260-B-5GM.m
Cal Date : 03-Mar-1999 13:15 thornton
Curve Type : Average

Compound	50 Level 1	100 Level 2	250 Level 3	500 Level 4	1000 Level 5	RRF	% RSD
M 103 Xylene total	0.50314	0.48832	0.49286	0.58152	0.58267	0.52970	9.086
S 4 Dibromofluoromethane	1.05193	0.93527	0.86765	0.86018	0.84889	0.91278	9.288
S 6 1,2-Dichloroethane-d4	0.66990	0.58700	0.53095	0.51369	0.49340	0.55899	12.721
S 7 Toluene-d8	1.38457	1.23488	1.21204	1.20165	1.17934	1.24250	6.591
S 8 Bromofluorobenzene	1.92645	1.70094	1.59116	1.56080	1.62200	1.68027	8.759

Laboratory Notice

Initial Calibration Date(s): March 17, 1999

Instrument Identifier: INCOS52

An initial calibration was analyzed by Method 8260B. Per the methodology, all compounds are to meet a Percent Relative Standard Deviation (%RSD) limit of no more than 15%. Additional calibration options are provided in the method when the RSD exceeds 15%. CompuChem has chosen to apply the option of determining the mean RSD values for all analytes in the calibration.

When there are analytes with %RSDs greater than the limit, proof of calibration linearity can be shown if the average of all compounds in the initial calibration meet the same 15% limit. Based on Method 8260B requirements, we are providing a list which shows all compounds that fail to meet the limit (designated by the <- sign), and their associated %RSDs. Finally the average of all %RSDs from all compounds in the initial calibration is shown, confirming the usability of the initial calibration and any data that follows it.

Average %RSD for all compounds in this Initial Calibration: 7.654

Data Reviewer/ID# _____/2377

Date March 19,1999

Report Date : 19-Mar-1999 09:51

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 17-MAR-1999 22:09
End Cal Date : 18-MAR-1999 01:43
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50052.i/g990317b.b/S8260-B-5GM.m
Cal Date : 19-Mar-1999 09:45 thornton
Curve Type : Average

Calibration File Names:
Level 1: /chem/f50052.i/g990317b.b/gv990317b52.d
Level 2: /chem/f50052.i/g990317b.b/gw990317b52.d
Level 3: /chem/f50052.i/g990317b.b/gu990317b52.d
Level 4: /chem/f50052.i/g990317b.b/gx990317b52.d
Level 5: /chem/f50052.i/g990317b.b/gy990317b52.d

Compound	50 Level 1	100 Level 2	250 Level 3	500 Level 4	1000 Level 5	RRF	% RSD	
8 Dichlorodifluoromethane	*****	*****	*****	*****	*****	*****	*****	<-
9 Chloromethane	0.28795	0.26398	0.28927	0.25544	0.24876	0.26908	6.924	
10 Vinyl Chloride	0.37398	0.38373	0.40647	0.38597	0.37896	0.38582	3.221	
11 Bromomethane	0.45095	0.43752	0.48220	0.46648	0.46386	0.46020	3.663	
12 Chloroethane	0.30945	0.29915	0.30748	0.29653	0.28580	0.29968	3.163	
13 Trichlorofluoromethane	*****	*****	*****	*****	*****	*****	*****	<-
14 Diethylether	*****	*****	*****	*****	*****	*****	*****	<-
15 Acrolein	0.00132	0.00195	0.00177	0.00382	0.00685	0.00314	72.617	<-
16 1,1-Dichloroethene	0.48003	0.50583	0.51129	0.51900	0.54674	0.51258	4.693	
17 Iodomethane	*****	*****	*****	*****	*****	*****	*****	<-
18 1,1,1-trichloro-2,2,2-trifluo	*****	*****	*****	*****	*****	*****	*****	<-
19 Carbon disulfide	1.86783	1.81728	1.85073	1.86565	1.97025	1.89435	3.716	
20 1,1,2-trichloro-1,2,2-trifluo	*****	*****	*****	*****	*****	*****	*****	<-
21 Acetone	0.12765	0.11461	0.11339	0.10914	0.09977	0.11291	8.938	
22 3-Chloropropene	*****	*****	*****	*****	*****	*****	*****	<-
23 Acetonitrile	*****	*****	*****	*****	*****	*****	*****	<-
24 Methylene Chloride	0.97792	0.93241	0.93970	0.86898	0.91821	0.92744	4.254	
25 trans-1,2-Dichloroethene	0.50791	0.53492	0.53496	0.54280	0.60534	0.54519	6.629	
26 Acrylonitrile	0.04388	0.04439	0.05256	0.04876	0.05131	0.04818	8.184	
27 Methyl tert-butyl ether	1.03378	0.99061	1.05112	1.01096	1.00522	1.01822	2.376	
28 tert-butyl alcohol	*****	*****	*****	*****	*****	*****	*****	<-
29 n-hexane	*****	*****	*****	*****	*****	*****	*****	<-
30 1,1-Dichloroethane	1.15263	1.21078	1.20037	1.21020	1.14987	1.18477	2.607	
31 Vinyl acetate	*****	*****	*****	*****	*****	*****	*****	<-
32 1,2-Dichloropropane	*****	*****	*****	*****	*****	*****	*****	<-
33 cis-1,2-Dichloroethene	[illegible]	0.67161	0.54565	0.52570	0.52684	0.54161	3.444	
34 Lorutanone	[illegible]	0.02871	0.03174	0.03190	0.02367	0.02869	11.871	

7.654

Report Date : 19-Mar-1999 09:51

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 17-MAR-1999 22:09
End Cal Date : 18-MAR-1999 01:43
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50052.i/g990317b.b/S8260-B-5GM.m
Cal Date : 19-Mar-1999 09:45 thornton
Curve Type : Average

Compound	50 Level 1	100 Level 2	250 Level 3	500 Level 4	1000 Level 5	RRF	% RSD	
35 Propionitrile	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
36 Bromochloromethane	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
37 Methyl acrylate	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
38 Methacrylonitrile	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
39 Tetrahydrofuran	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
40 Chloroform	1.22663	1.31655	1.29424	1.28313	1.29808	1.28412	2.673	
41 1,1,1-Trichloroethane	1.19970	1.27649	1.25125	1.26962	1.32510	1.26443	3.585	
42 1-chlorobutane	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
43 Carbon Tetrachloride	1.23723	1.30533	1.27563	1.29684	1.34226	1.29146	2.337	
44 1,1-dichloropropene	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
45 Pentafluorobenzene	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
46 Benzene	1.43523	1.51904	1.46034	1.44031	1.44502	1.47233	2.299	
47 1,2-Dichloroethane	0.69669	0.73160	0.70406	0.72660	0.69869	0.71753	2.553	
48 Isobutyl alcohol	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
49 Crotonaldehyde	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
50 Trichloroethene	0.76877	0.78632	0.74463	0.75989	0.79732	0.77139	2.712	
51 1,2 Dichloropropane	0.58654	0.62985	0.61157	0.59556	0.56347	0.59740	4.217	
52 Dibromomethane	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
53 1,4-dioxane	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
54 Methylmethacrylate	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
55 Bromodichloromethane	1.19928	1.30097	1.27756	1.36686	1.37195	1.31498	5.371	
56 2-chloroethyl vinyl ether	0.02924	0.01211	0.01640	0.02176	0.02394	0.01709	36.644	<-
57 cis-1,3 Dichloropropene	0.73217	0.78049	0.80981	0.84391	0.82328	0.79772	5.431	
58 4 Methyl-2-pentanone	0.24613	0.25681	0.27337	0.26865	0.23670	0.25814	5.521	
59 Toluene	0.73776	0.79497	0.74426	0.75629	0.73446	0.75355	3.266	
60 trans-1,3-Dichloropropene	0.48586	0.51872	0.5516	0.55234	0.52568	0.52284	5.742	
61 1,1,2 Trichloroethane	0.28171	0.31718	0.31116	0.31750	0.31401	0.30915	3.443	
62 Ethylmethacrylate	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
63 Tetrachloroethene	0.62612	0.68966	0.67178	0.57431	0.62633	0.61944	8.339	
64 1,3-Dichloropropane	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
65 2 hexanone	0.17434	0.18334	0.19191	0.18703	0.17091	0.18163	4.748	
66 Dibromochloromethane	0.64373	0.70861	0.71547	0.70149	0.69804	0.69468	3.739	
67 1,2 Dibromoethane	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
68 Chlorobenzene	1.01773	1.08504	1.04756	1.03938	1.07047	1.04456	4.134	

Report Date : 19-Mar-1999 09:51

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 17-MAR-1999 22:09
End Cal Date : 18-MAR-1999 01:43
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50052.i/g990317b.b/S8260-B-5GM.m
Cal Date : 19-Mar-1999 09:45 thornton
Curve Type : Average

Compound	50 Level 1	100 Level 2	250 Level 3	500 Level 4	1000 Level 5	RRF	% RSD	
69 1-Chlorohexane	*****	*****	*****	*****	*****	*****	*****	<-
70 1,1,1,2-Tetrachloroethane	*****	*****	*****	*****	*****	*****	*****	<-
71 Ethylbenzene	0.43822	0.46364	0.43629	0.44972	0.44973	0.44752	2.453	
72 m,p-Xylene	0.56634	0.59038	0.56661	0.61629	0.65833	0.59959	6.464	
73 o-Xylene	0.52189	0.55862	0.54108	0.57996	0.61910	0.56413	6.643	
74 Styrene	0.79639	0.86431	0.86373	0.95482	1.00641	0.89725	9.239	
75 Bromoform	0.47123	0.51753	0.52209	0.49683	0.48962	0.49945	4.177	
76 Isopropyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
77 cis-1,4-dichloro-2-butene	*****	*****	*****	*****	*****	*****	*****	<-
78 Bromobenzene	*****	*****	*****	*****	*****	*****	*****	<-
79 1,2,3-Trichloropropane	*****	*****	*****	*****	*****	*****	*****	<-
80 1,1,2,2-Tetrachloroethane	0.58634	0.60859	0.58713	0.54708	0.53760	0.57335	5.212	
81 trans-1,4-dichloro-2-butene	*****	*****	*****	*****	*****	*****	*****	<-
82 n-Propyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
83 2-Chlorotoluene	*****	*****	*****	*****	*****	*****	*****	<-
84 4-Chlorotoluene	*****	*****	*****	*****	*****	*****	*****	<-
85 1,3,5-Trimethyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
86 Pentachloroethane	*****	*****	*****	*****	*****	*****	*****	<-
87 tert-Butyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
88 1,2,4 Trimethyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
89 sec-Butyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
90 1,3-Dichlorobenzene	*****	*****	*****	*****	*****	*****	*****	<-
91 1,4-Dichlorobenzene	*****	*****	*****	*****	*****	*****	*****	<-
92 p-Isopropyl Toluene	*****	*****	*****	*****	*****	*****	*****	<-
93 Benzyl Chloride	*****	*****	*****	*****	*****	*****	*****	<-
94 1,2-Dichlorobenzene	*****	*****	*****	*****	*****	*****	*****	<-
95 n-Butyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
96 1,2,4-Trimethylbenzene	*****	*****	*****	*****	*****	*****	*****	<-
97 1,2-Dibromo-3-Chloropropane	*****	*****	*****	*****	*****	*****	*****	<-
98 1,2,4 Trichlorobenzene	*****	*****	*****	*****	*****	*****	*****	<-
99 Hexachlorobutadiene	*****	*****	*****	*****	*****	*****	*****	<-
100 Naphthalene	*****	*****	*****	*****	*****	*****	*****	<-
101 1,2,3-Trichlorobenzene	*****	*****	*****	*****	*****	*****	*****	<-
M 102 1,2 Dichloroethene total	0.52311	0.55321	0.54131	0.53425	0.56609	0.54340	3.078	

Report Date : 19-Mar-1999 09:51

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 17-MAR-1999 22:09
End Cal Date : 18-MAR-1999 01:43
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50052.i/g990317b.b/S8260-B-5GM.m
Cal Date : 19-Mar-1999 09:45 thornton
Curve Type : Average

Compound	50 Level 1	100 Level 2	250 Level 3	500 Level 4	1000 Level 5	RRF	% RSD
M 103 Xylene (total)	0.52189	0.55862	0.54108	0.57996	0.61910	0.56413	6.643
S 4 Dibromofluoromethane	1.47837	1.31338	1.30122	1.05259	1.11458	1.25203	13.606
S 5 1,2-Dichloroethane-d4	0.87926	0.77863	0.74699	0.64746	0.66125	0.74272	12.713
S 6 Toluene-d8	1.22686	1.22641	1.24127	1.08088	1.07763	1.17061	7.143
S 7 Bromofluorobenzene	1.63262	1.53632	1.77692	1.28800	1.42243	1.53126	12.290

Laboratory Notice

Initial Calibration Date(s): March 22, 1999

Instrument Identifier: INCOS52

An initial calibration was analyzed by Method 8260B. Per the methodology, all compounds are to meet a Percent Relative Standard Deviation (%RSD) limit of no more than 15%. Additional calibration options are provided in the method when the RSD exceeds 15%. CompuChem has chosen to apply the option of determining the mean RSD values for all analytes in the calibration.

When there are analytes with %RSDs greater than the limit, proof of calibration linearity can be shown if the average of all compounds in the initial calibration meet the same 15% limit. Based on Method 8260B requirements, we are providing a list which shows all compounds that fail to meet the limit (designated by the <- sign), and their associated %RSDs. Finally the average of all %RSDs from all compounds in the initial calibration is shown, confirming the usability of the initial calibration and any data that follows it.

Average %RSD for all compounds in this Initial Calibration: 11.651

Data Reviewer/ID# _____/2377

Date March 23,1999

Report Date : 23-Mar-1999 14:11

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAR-1999 20:16
End Cal Date : 23-MAR-1999 01:34
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50052.i/f990322b.b/S8260-B-5GM.m
Cal Date : 23-Mar-1999 14:11 thornton
Curve Type : Average

Calibration File Names:
Level 1: /chem/f50052.i/f990322b.b/gv990322b52.d
Level 2: /chem/f50052.i/f990322b.b/gw990322b52.d
Level 3: /chem/f50052.i/f990322b.b/gu990322b52.d
Level 4: /chem/f50052.i/f990322b.b/gx990322b52.d
Level 5: /chem/f50052.i/f990322b.b/gy990322b52.d

Compound	50 Level 1	100 Level 2	250 Level 3	500 Level 4	1000 Level 5	RRF	% RSD	
8 Dichlorodifluoromethane	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
9 Chloromethane	0.37598	0.49642	0.35438	0.41408	0.37644	0.40346	13.937	
10 Vinyl Chloride	0.44451	0.58121	0.43479	0.49278	0.45878	0.48241	12.321	
11 Bromomethane	0.46694	0.55104	0.43861	0.48701	0.47107	0.48293	8.673	
12 Chloroethane	0.28836	0.35793	0.25459	0.31328	0.27828	0.29849	13.179	
13 Trichlorofluoromethane	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
14 Diethylether	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
15 Acrolein	0.00172	0.00248	0.00221	0.00380	0.00662	0.00337	58.637	<-
16 1,1-Dichloroethene	0.40220	0.48804	0.37773	0.43253	0.43342	0.42679	9.690	
17 Iodomethane	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
18 1,1,1-trichloro-2,2,2-trifluo	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
19 Carbon disulfide	1.11943	1.61742	1.24798	1.55836	1.72500	1.45364	17.721	<-
20 1,1,2-trichloro-1,2,2-trifluo	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
21 Acetone	0.11891	0.11689	0.08660	0.10037	0.07822	0.10020	17.972	<-
22 3-Chloropropene	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
23 Acetonitrile	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
24 Methylene Chloride	[illegible]	0.82925	0.66844	0.69623	0.75899	0.76437	11.144	
25 trans 1,2-Dichloroethene	0.4154	0.47456	0.36998	0.44033	0.48348	0.43675	10.579	
26 Acrylonitrile	[illegible]	[illegible]	[illegible]	[illegible]	0.04555	0.04287	6.754	
27 Methyl tert-butyl ether	0.63212	[illegible]	[illegible]	0.86441	0.94702	0.80642	15.939	<-
28 tert-butyl alcohol	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
29 n-hexane	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
30 1,1-Dichloroethane	[illegible]	[illegible]	[illegible]	1.01089	0.96733	0.98236	8.007	
31 Vinyl acetate	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
32 2,2-Dichloropropane	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
33 cis-1,2-Dichloroethene	0.46676	[illegible]	0.40349	0.47619	0.43721	0.46277	10.197	
34 2-butanone	[illegible]	[illegible]	[illegible]	0.02952	0.02301	0.02635	9.641	

11451

Report Date : 23-Mar-1999 14:11

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAR-1999 20:16
End Cal Date : 23-MAR-1999 01:34
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50052.i/f990322b.b/S8260-B-5GM.m
Cal Date : 23-Mar-1999 14:11 thornton
Curve Type : Average

Compound	50 Level 1	100 Level 2	250 Level 3	500 Level 4	1000 Level 5	RRF	% RSD	
35 Propionitrile	*****	*****	*****	*****	*****	*****	*****	<-
36 Bromochloromethane	*****	*****	*****	*****	*****	*****	*****	<-
37 Methyl acrylate	*****	*****	*****	*****	*****	*****	*****	<-
38 Methacrylonitrile	*****	*****	*****	*****	*****	*****	*****	<-
39 Tetrahydrofuran	*****	*****	*****	*****	*****	*****	*****	<-
40 Chloroform	1.04035	1.14446	0.93507	1.12592	1.10691	1.07054	7.970	
41 1,1,1-Trichloroethane	1.01534	1.11397	0.92391	1.12072	1.12465	1.05972	8.347	
42 1-chlorobutane	*****	*****	*****	*****	*****	*****	*****	<-
43 Carbon Tetrachloride	1.07693	1.14396	0.93954	1.14861	1.10335	1.08248	7.873	
44 1,1-dichloropropene	*****	*****	*****	*****	*****	*****	*****	<-
45 Pentafluorobenzene	*****	*****	*****	*****	*****	*****	*****	<-
46 Benzene	1.21544	1.34162	1.04640	1.26770	1.22324	1.21888	8.915	
47 1,2-Dichloroethane	0.62762	0.65233	0.55197	0.65501	0.60942	0.61927	6.787	
48 Isobutyl Alcohol	*****	*****	*****	*****	*****	*****	*****	<-
49 Crotonaldehyde	*****	*****	*****	*****	*****	*****	*****	<-
50 Trichloroethene	0.64720	0.69177	0.53776	0.66354	0.65308	0.63867	9.230	
51 1,1-Dichloropropane	0.43465	0.55229	0.44632	0.53582	0.48748	0.50331	9.329	
52 Dibromomethane	*****	*****	*****	*****	*****	*****	*****	<-
53 1,4-dioxane	*****	*****	*****	*****	*****	*****	*****	<-
54 Methylmethacrylate	*****	*****	*****	*****	*****	*****	*****	<-
55 Bromodichloromethane	1.05466	1.16933	0.99196	1.23372	1.17965	1.12586	8.817	
56 2-chloroethyl vinyl ether	0.02365	0.01965	0.02097	0.02766	0.03224	0.02471	21.461	<-
57 cis-1,3-Dichloropropene	0.62797	0.68832	0.58874	0.72916	0.69680	0.66620	8.509	
58 4 Methyl 2-pentanone	0.40569	0.34485	0.30650	0.35236	0.34798	0.35148	10.078	
59 Toluene	0.93116	0.99941	0.79070	0.94509	0.87312	0.90190	8.630	
60 trans-1,3-Dichloropropene	0.55696	0.63423	0.55824	0.69059	0.65569	0.61994	9.729	
61 1,1,2-Trichloroethane	0.35112	0.40252	0.32851	0.43633	0.43717	0.37852	9.995	
62 Ethylmethacrylate	*****	*****	*****	*****	*****	*****	*****	<-
63 Tetrachloroethene	0.7024	0.84[illegible]	0.25[illegible]	0.81311	0.[illegible]	0.77254	11.[illegible]	
64 1,3-Dichloropropane	*****	*****	*****	*****	*****	*****	*****	<-
65 2 hexanone	0.27678	0.23593	0.22041	0.25636	0.25224	0.24836	8.591	
66 Dibromochloromethane	0.80035	0.92056	0.76097	0.94842	0.90272	0.86654	9.392	
67 1,2 Dibromoethane	*****	*****	*****	*****	*****	*****	*****	<-
68 Chlorobenzene	1.03247	1.16235	0.91984	1.15314	1.18890	1.10154	10.195	

Report Date : 23-Mar-1999 14:11

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAR-1999 20:16
End Cal Date : 23-MAR-1999 01:34
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50052.i/f990322b.b/S8260-B-5GM.m
Cal Date : 23-Mar-1999 14:11 thornton
Curve Type : Average

	Compound	50 Level 1	100 Level 2	250 Level 3	500 Level 4	1000 Level 5	RRF	% RSD	
69	1-Chlorohexane	*****	*****	*****	*****	*****	*****	*****	<-
70	1,1,1,2-Tetrachloroethane	*****	*****	*****	*****	*****	*****	*****	<-
71	Ethylbenzene	0.52262	0.57746	0.45477	0.56831	0.54772	0.53417	9.200	
72	m,p-Xylene	0.65517	0.72925	0.58907	0.77730	0.80565	0.71129	12.510	
73	o-Xylene	0.64619	0.69867	0.56638	0.76435	0.76436	0.68799	12.229	
74	Styrene	0.97105	1.08587	0.91455	1.20678	1.25481	1.08661	13.470	
75	Bromoform	0.59315	0.68932	0.56584	0.69109	0.66007	0.63989	8.957	
76	Isopropyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
77	cis-1,4-dichloro-2-butene	*****	*****	*****	*****	*****	*****	*****	<-
78	Bromobenzene	*****	*****	*****	*****	*****	*****	*****	<-
79	1,2,3-Trichloropropane	*****	*****	*****	*****	*****	*****	*****	<-
80	1,1,2,2-Tetrachloroethane	0.65666	0.72582	0.61483	0.73207	0.69634	0.68514	7.201	
81	trans-1,4-dichloro-2-butene	*****	*****	*****	*****	*****	*****	*****	<-
82	n-Propyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
83	2-Chlorotoluene	*****	*****	*****	*****	*****	*****	*****	<-
84	4-Chlorotoluene	*****	*****	*****	*****	*****	*****	*****	<-
85	1,3,5-Trimethyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
86	Pentachloroethane	*****	*****	*****	*****	*****	*****	*****	<-
87	tert-Butyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
88	1,2,4-Trimethyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
89	sec-Butyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
90	1,3-Dichlorobenzene	*****	*****	*****	*****	*****	*****	*****	<-
91	1,4-Dichlorobenzene	*****	*****	*****	*****	*****	*****	*****	<-
92	p-Isopropyl Toluene	*****	*****	*****	*****	*****	*****	*****	<-
93	Benzyl Chloride	*****	*****	*****	*****	*****	*****	*****	<-
94	1,2-Dichlorobenzene	*****	*****	*****	*****	*****	*****	*****	<-
95	n-Butyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
96	1,2-Dibromo-3-Chloropropane	*****	*****	*****	*****	*****	*****	*****	<-
97	1,2,4-Trichlorobenzene	*****	*****	*****	*****	*****	*****	*****	<-
98	Hexachlorobutadiene	*****	*****	*****	*****	*****	*****	*****	<-
100	Naphthalene	*****	*****	*****	*****	*****	*****	*****	<-
101	1,2,3-Trichlorobenzene	*****	*****	*****	*****	*****	*****	*****	<-
M 1	1,2-Dichloroethene (total)	0.44138	0.50287	0.38674	0.45826	0.46034	0.44976	9.300	

Report Date : 23-Mar-1999 14:11

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAR-1999 20:16
End Cal Date : 23-MAR-1999 01:34
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50052.i/f990322b.b/S8260-B-5GM.m
Cal Date : 23-Mar-1999 14:11 thornton
Curve Type : Average

Compound	50 Level 1	100 Level 2	250 Level 3	500 Level 4	1000 Level 5	RRF	% RSD	
M 103 Xylene (total)	0.64619	0.69867	0.56638	0.76435	0.76436	0.68799	12.229	
S 4 Dibromofluoromethane	1.30488	1.15072	0.96695	0.89013	1.00344	1.06322	15.516	<-
S 6 1,2 Dichloroethane-d4	0.75954	0.70514	0.60540	0.56212	0.61574	0.64959	12.393	
S 8 Toluene-d8	1.35384	1.43621	1.33292	1.32920	1.40462	1.37136	3.435	
S 9 Bromofluorobenzene	1.96916	1.79747	2.02327	1.61831	1.74778	1.83120	9.029	

Laboratory Notice

Initial Calibration Date(s): March 25, 1999

Instrument Identifier: INCOS52

An initial calibration was analyzed by Method 8260B. Per the methodology, all compounds are to meet a Percent Relative Standard Deviation (%RSD) limit of no more than 15%. Additional calibration options are provided in the method when the RSD exceeds 15%. CompuChem has chosen to apply the option of determining the mean RSD values for all analytes in the calibration.

When there are analytes with %RSDs greater than the limit, proof of calibration linearity can be shown if the average of all compounds in the initial calibration meet the same 15% limit. Based on Method 8260B requirements, we are providing a list which shows all compounds that fail to meet the limit (designated by the <- sign), and their associated %RSDs. Finally the average of all %RSDs from all compounds in the initial calibration is shown, confirming the usability of the initial calibration and any data that follows it.

Average %RSD for all compounds in this Initial Calibration: 7.958

Data Reviewer/ID# jk /2377

Date March 26,1999

Report Date : 26-Mar-1999 13:25

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAR-1999 13:50
End Cal Date : 25-MAR-1999 17:23
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50052.i/g990325a.b/S8260-B-5GM.m
Cal Date : 26-Mar-1999 08:52 thornton
Curve Type : Average

Calibration File Names:
Level 1: /chem/f50052.i/g990325a.b/gw990325a52.d
Level 2: /chem/f50052.i/g990325a.b/gx990325a52.d
Level 3: /chem/f50052.i/g990325a.b/gy990325a52.d
Level 4: /chem/f50052.i/g990325a.b/gz990325a52.d
Level 5: /chem/f50052.i/g990325a.b/ga990325a52.d

Compound	50 Level 1	100 Level 2	250 Level 3	500 Level 4	1000 Level 5	RRF	% RSD	
4 Dichlorodifluoromethane	*****	*****	*****	*****	*****	*****	*****	<-
5 Chloromethane	0.38435	0.31874	0.34019	0.33543	0.30369	0.33648	9.035	
6 Vinyl Chloride	0.42529	0.38895	0.37546	0.40399	0.35392	0.38952	6.977	
11 Bromomethane	0.46125	0.37149	0.35798	0.40505	0.37918	0.39299	9.366	
12 Chloroethane	0.28621	0.24683	0.23498	0.25454	0.23049	0.25061	6.802	
13 Trichlorofluoromethane	*****	*****	*****	*****	*****	*****	*****	<-
14 Diethylether	*****	*****	*****	*****	*****	*****	*****	<-
15 Acrolein	0.00632	0.00677	0.00654	0.00847	0.00984	0.00745	22.034	<-
16 1,1-Dichloroethene	0.34130	0.34203	0.31523	0.35060	0.35052	0.33993	4.269	
17 Iodomethane	*****	*****	*****	*****	*****	*****	*****	<-
18 1,1,1 trichloro-2,2,2-trifluo	*****	*****	*****	*****	*****	*****	*****	<-
19 Carbon disulfide	1.05229	1.23704	1.16467	1.34576	1.37112	1.27418	8.612	
20 1,1,2-trichloro-1,2,2 trifluo	*****	*****	*****	*****	*****	*****	*****	<-
21 Acetone	0.09268	0.08653	0.07427	0.07323	0.07303	0.07975	11.167	
22 3-Chloropropene	*****	*****	*****	*****	*****	*****	*****	<-
23 Acetonitrile	*****	*****	*****	*****	*****	*****	*****	<-
24 Methylene Chloride	0.56761	0.42210	0.34874	0.36961	0.36132	0.41752	21.791	<-
25 trans 1,2 Dichloroethene	0.34611	0.38222	0.32532	0.37401	0.41565	0.35862	11.304	
26 Acrylonitrile	0.03722	0.03759	0.03819	0.03595	0.03600	0.03599	4.792	
27 Methyl-tert-butyl ether	0.94312	0.76457	0.66163	0.77552	0.76256	0.72948	9.376	
28 tert-butyl alcohol	*****	*****	*****	*****	*****	*****	*****	<-
29 n-hexane	*****	*****	*****	*****	*****	*****	*****	<-
30 1,1 Dichloroethane	0.85559	0.80772	0.77296	0.86546	0.82628	0.82560	4.524	
31 Vinyl acetate	*****	*****	*****	*****	*****	*****	*****	<-
32 2,2-Dichloropropane	*****	*****	*****	*****	*****	*****	*****	<-
33 cis-1,2-Dichloroethene	0.37709	0.38773	0.38239	0.36390	0.35006	0.38023	4.181	
34 2 Butanone	0.01873	0.01916	0.01996	0.02211	0.01600	0.01880	13.141	

Report Date : 26-Mar-1999 13:25

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAR-1999 13:50
End Cal Date : 25-MAR-1999 17:23
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50052.i/g990325a.b/S8260-B-5GM.m
Cal Date : 26-Mar-1999 08:52 thornton
Curve Type : Average

Compound	50 Level 1	100 Level 2	250 Level 3	500 Level 4	1000 Level 5	RRF	% RSD	
35 Propionitrile	*****	*****	*****	*****	*****	*****	*****	
36 Bromochloromethane	*****	*****	*****	*****	*****	*****	*****	<-
37 Methyl acrylate	*****	*****	*****	*****	*****	*****	*****	<-
38 Methacrylonitrile	*****	*****	*****	*****	*****	*****	*****	<-
39 Tetrahydrofuran	*****	*****	*****	*****	*****	*****	*****	<-
40 Chloroform	1.05154	0.96802	0.89483	0.98151	0.94853	0.96888	5.859	
41 1,1,1-Trichloroethane	0.95265	0.89974	0.88323	0.97962	0.99455	0.94196	5.182	
42 1-chlorobutane	*****	*****	*****	*****	*****	*****	*****	
43 Carbon Tetrachloride	1.00809	0.94071	0.89851	1.00829	1.00592	0.97230	5.151	
44 1,1-dichloropropene	*****	*****	*****	*****	*****	*****	*****	<-
45 Pentafluorobenzene	*****	*****	*****	*****	*****	*****	*****	<-
46 Benzene	1.10452	1.00233	0.96691	0.99740	0.99052	1.01233	5.264	
47 1,2-Dichloroethane	0.59342	0.54929	0.52264	0.57742	0.56011	0.56058	4.827	
48 Isobutyl alcohol	*****	*****	*****	*****	*****	*****	*****	<-
49 Crotonaldehyde	*****	*****	*****	*****	*****	*****	*****	<-
50 Trichloroethene	0.56700	0.54093	0.51402	0.54037	0.55669	0.54380	3.631	
51 1,2-Dichloropropane	.44833	.43417	.41775	.42149	0.43511	0.42499	[illegible]	
52 Dibromomethane	*****	*****	*****	*****	*****	*****	*****	<-
53 1,4-dioxane	*****	*****	*****	*****	*****	*****	*****	<-
54 Methylmethacrylate	*****	*****	*****	*****	*****	*****	*****	
55 Bromodichloromethane	1.00706	0.95333	0.92829	1.04219	1.03169	0.99252	5.069	
56 2-chloroethyl vinyl ether	0.02030	0.02426	0.02531	0.03332	0.03734	0.02823	25.217	*
57 cis-1,3-Dichloropropene	0.58633	0.55714	0.54847	0.60460	0.59030	0.57517	4.028	
58 4-Methyl-2-pentanone	0.26342	0.26041	0.25754	0.28727	0.26898	0.26762	4.462	
59 Toluene	0.86496	0.78538	0.77688	0.80223	0.77104	0.80010	4.764	
60 trans-1,3-Dichloropropene	[illegible]	[illegible]	[illegible]	0.64154	[illegible]	0.59449	[illegible]	
61 1,1,2-Trichloroethane	0.34391	0.33223	0.31331	0.35273	0.37395	0.34316	[illegible]	
62 Ethylmethacrylate	*****	*****	*****	*****	*****	*****	*****	<-
63 Tetrachloroethene	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
64 1,3-Dichloropropane	*****	*****	*****	*****	*****	*****	*****	
65 2-hexanone	0.17145	0.18421	0.18469	0.20624	0.19698	0.19271	* 4.780	
66 Dibromochloromethane	0.81743	0.76851	0.75684	0.83524	0.81678	0.79776	4.[illegible]	
67 1,2-Dibromoethane	*****	*****	*****	*****	*****	*****	*****	<-
68 Chlorobenzene	[illegible]	[illegible]	[illegible]	[illegible]	1.03416	[illegible]	[illegible]	

Report Date : 26-Mar-1999 13:25

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAR-1999 13:50
End Cal Date : 25-MAR-1999 17:23
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50052.i/g990325a.b/S8260-B-5GM.m
Cal Date : 26-Mar-1999 08:52 thornton
Curve Type : Average

Compound	50 Level 1	100 Level 2	250 Level 3	500 Level 4	1000 Level 5	RRF	% RSD	
69 1-Chlorohexane	*****	*****	*****	*****	*****	*****	*****	<-
70 1,1,1,2-Tetrachloroethane	*****	*****	*****	*****	*****	*****	*****	<-
71 Ethylbenzene	0.51469	0.47139	0.45145	0.46182	0.48271	0.47641	5.105	
72 m,p-Xylene	0.63675	0.58580	0.56247	0.64908	0.73805	0.63443	10.720	
73 o-Xylene	0.61747	0.55465	0.53289	0.64076	0.70767	0.61069	11.447	
74 Styrene	0.96676	0.88275	0.88527	1.03367	1.15915	0.98552	11.727	
75 Bromoform	0.58161	0.55347	0.53128	0.57677	0.57565	0.56376	3.753	
76 Isopropyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
77 cis-1,4-dichloro-2-butene	*****	*****	*****	*****	*****	*****	*****	<-
78 Bromobenzene	*****	*****	*****	*****	*****	*****	*****	<-
79 1,2,3-Trichloropropane	*****	*****	*****	*****	*****	*****	*****	<-
80 1,1,2,2-Tetrachloroethane	0.63543	0.61175	0.55997	0.60253	0.59612	0.60116	4.563	
81 trans-1,4-dichloro-2-butene	*****	*****	*****	*****	*****	*****	*****	<-
82 n-Propyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
83 2-Chlorotoluene	*****	*****	*****	*****	*****	*****	*****	<-
84 4-Chlorotoluene	*****	*****	*****	*****	*****	*****	*****	<-
85 1,3,5-Trimethyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
86 Pentachloroethane	*****	*****	*****	*****	*****	*****	*****	<-
87 tert-Butyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
88 1,2,4-Trimethyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
89 sec-Butyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
90 1,3-Dichlorobenzene	*****	*****	*****	*****	*****	*****	*****	<-
91 1,4-Dichlorobenzene	*****	*****	*****	*****	*****	*****	*****	<-
92 p-Isopropyl Toluene	*****	*****	*****	*****	*****	*****	*****	<-
93 Benzyl Chloride	*****	*****	*****	*****	*****	*****	*****	<-
94 1,2-Dichlorobenzene	*****	*****	*****	*****	*****	*****	*****	<-
95 n-Butyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
96 1,2-Diethylbenzene	*****	*****	*****	*****	*****	*****	*****	<-
97 1,2-Dibromo-3-Chloropropane	*****	*****	*****	*****	*****	*****	*****	<-
98 1,2,4-Trichlorobenzene	*****	*****	*****	*****	*****	*****	*****	<-
99 Hexachlorobutadiene	*****	*****	*****	*****	*****	*****	*****	<-
100 Naphthalene	*****	*****	*****	*****	*****	*****	*****	<-
101 1,2,3-Trichlorobenzene	*****	*****	*****	*****	*****	*****	*****	<-
*M 112 1,2-Dichloroethene (total)	0.37460	0.36487	0.35385	0.36895	0.38285	0.36943	3.012	

Report Date : 26-Mar-1999 13:25

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAR-1999 13:50
End Cal Date : 25-MAR-1999 17:23
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50052.i/g990325a.b/S8260-B-5GM.m
Cal Date : 26-Mar-1999 08:52 thornton
Curve Type : Average

Compound	50 Level 1	100 Level 2	250 Level 3	500 Level 4	1000 Level 5	RRF	% RSD	
M 103 Xylene (total)	0.61747	0.55465	0.53289	0.64076	0.70767	0.61069	11.447	
$ 4 Dibromofluoromethane	1.16767	1.01107	0.83361	0.81194	0.82465	0.92979	16.782	<-
$ 5 1,2-Dichloroethane-d4	0.70159	0.64075	0.55928	0.55257	0.57163	0.60516	10.632	
$ 6 Toluene-d8	1.21663	1.22430	1.23933	1.25307	1.20636	1.22794	1.506	
$ 7 Bromofluorobenzene	1.87664	1.76379	1.72895	1.66167	1.69603	1.74542	4.732	

Laboratory Notice

Initial Calibration Date(s): March 23, 1999

Instrument Identifier: INCOS55

An initial calibration was analyzed by Method 8260B. Per the methodology, all compounds are to meet a Percent Relative Standard Deviation (%RSD) limit of no more than 15%. Additional calibration options are provided in the method when the RSD exceeds 15%. CompuChem has chosen to apply the option of determining the mean RSD values for all analytes in the calibration.

When there are analytes with %RSDs greater than the limit, proof of calibration linearity can be shown if the average of all compounds in the initial calibration meet the same 15% limit. Based on Method 8260B requirements, we are providing a list which shows all compounds that fail to meet the limit (designated by the <- sign), and their associated %RSDs. Finally the average of all %RSDs from all compounds in the initial calibration is shown, confirming the usability of the initial calibration and any data that follows it.

Average %RSD for all compounds in this Initial Calibration: 10.741

Data Reviewer/ID# _____/2377

Date March 25,1999

Report Date : 25-Mar-1999 09:23

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAR-1999 21:08
End Cal Date : 24-MAR-1999 00:13
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50055.i/f990323b.b/W8260-B-5ML.m
Cal Date : 25-Mar-1999 09:23 thornton
Curve Type : Average

Calibration File Names:
Level 1: /chem/f50055.i/f990323b.b/cs990323b55.d
Level 2: /chem/f50055.i/f990323b.b/ct990323b55.d
Level 3: /chem/f50055.i/f990323b.b/cu990323b55.d
Level 4: /chem/f50055.i/f990323b.b/cv990323b55.d
Level 5: /chem/f50055.i/f990323b.b/cw990323b55.d

Compound	50 Level 1	100 Level 2	250 Level 3	500 Level 4	1000 Level 5	___ RRF	% RSD	
8 Dichlorodifluoromethane	*****	*****	*****	*****	*****	*****	*****	<-
9 Chloromethane	0.27554	0.25647	0.22692	0.19630	0.17981	0.22701	17.612	<-
10 Vinyl Chloride	0.29694	0.27220	0.27671	0.25880	0.23233	0.26740	8.942	
11 Bromomethane	0.30961	0.28119	0.25329	0.23630	0.20723	0.25752	15.374	<-
12 Chloroethane	0.20947	0.19209	0.18458	0.16714	0.14524	0.17970	13.656	
13 Trichlorofluoromethane	*****	*****	*****	*****	*****	*****	*****	<-
14 Acrolein	0.02251	0.02040	0.02258	0.02336	0.02061	0.02189	6.000	
15 1,1-Dichloroethene	0.13255	0.28725	0.28821	0.26135	0.23864	0.24160	26.622	
16 1,1,2-Trichloro-2,2,2-trifluo	*****	*****	*****	*****	*****	*****	*****	<-
17 Carbon disulfide	1.02789	0.87701	0.79807	0.78733	0.74123	0.84631	13.311	
18 Acetone	0.30890	0.24998	0.29044	0.27657	0.22156	0.26949	12.748	
19 1,1,2-Trichloro-1,2,2-trifluo	*****	*****	*****	*****	*****	*****	*****	<-
20 Iodomethane	*****	*****	*****	*****	*****	*****	*****	<-
21 3-Chloropropene	*****	*****	*****	*****	*****	*****	*****	<-
22 Acetonitrile	*****	*****	*****	*****	*****	*****	*****	<-
23 Methylene Chloride	0.63566	0.55824	0.49715	0.43570	0.41061	0.50767	18.135	<-
24 trans 1,2-Dichloroethene	0.31242	0.28186	0.27578	0.25269	0.23984	0.27252	10.301	
25 Acrylonitrile	0.04479	0.04564	0.05007	0.04720	0.04643	0.04683	4.322	
26 Methyl-tert-butyl ether	0.82120	0.79800	0.72944	0.68328	0.64267	0.71512	9.275	
27 1,1-Dichloroethane	0.63628	0.67067	0.62636	0.56191	0.53007	0.61718	11.416	
28 Vinyl Acetate	*****	*****	*****	*****	*****	*****	*****	<-
29 2,2-Dichloropropane	*****	*****	*****	*****	*****	*****	*****	<-
30 cis-1,2-Dichloroethene	0.34021	0.35953	0.33181	0.29050	0.25920	0.31745	13.105	
31 2-Butanone	0.09612	0.09713	0.10859	0.09979	0.09175	0.09867	6.337	
32 Propionitrile	*****	*****	*****	*****	*****	*****	*****	<-
33 Bromochloromethane	*****	*****	*****	*****	*****	*****	*****	<-
34 Chloroform	0.74108	0.71973	0.68528	0.62240	0.59055	0.67160	9.507	

10.741

Report Date : 25-Mar-1999 09:23

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAR-1999 21:08
End Cal Date : 24-MAR-1999 00:13
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50055.i/f990323b.b/W8260-B-5ML.m
Cal Date : 25-Mar-1999 09:23 thornton
Curve Type : Average

Compound	50 Level 1	100 Level 2	250 Level 3	500 Level 4	1000 Level 5	RRF	% RSD	
35 Methacrylonitrile	*****	*****	*****	*****	*****	*****	*****	<-
36 1,1,1-Trichloroethane	0.75566	0.70375	0.66609	0.60900	0.56385	0.65967	11.482	
37 Carbon Tetrachloride	0.68383	0.66099	0.63384	0.56890	0.52203	0.61392	10.918	
38 1,1-dichloropropene	*****	*****	*****	*****	*****	*****	*****	<-
39 Benzene	1.10260	1.00502	0.94893	0.83776	0.75819	0.93050	14.598	
40 1,2-Dichloroethane	0.72199	0.68001	0.66613	0.63968	0.67954	0.67747	4.397	
41 Crotonaldehyde	*****	*****	*****	*****	*****	*****	*****	<-
42 Isobutyl alcohol	*****	*****	*****	*****	*****	*****	*****	<-
43 Trichloroethene	0.59058	0.55372	0.51645	0.46942	0.46896	0.52023	10.210	
44 1,2-Dichloropropane	0.53652	0.50495	0.48755	0.44637	0.44187	0.48385	8.405	
45 Dibromomethane	*****	*****	*****	*****	*****	*****	*****	<-
46 1,4-dioxane	*****	*****	*****	*****	*****	*****	*****	<-
47 Methylmethacrylate	*****	*****	*****	*****	*****	*****	*****	<-
48 Bromodichloromethane	0.88727	0.87967	0.86676	0.81460	0.81308	0.85228	4.206	
49 2-chloroethyl vinyl ether	0.03640	0.04485	0.09849	0.08846	0.12395	0.07843	47.145	<-
50 cis-1,3-Dichloropropene	0.69801	0.67645	0.67589	0.64524	0.64854	0.66883	3.282	
51 4-Methyl-2-pentanone	0.39525	0.35839	0.42625	0.38834	0.36591	0.39283	6.219	
52 Toluene	0.96388	0.89751	0.84805	0.77709	0.75663	0.84983	10.303	
53 trans-1,3-Dichloropropene	1.03316	1.06655	1.12535	1.09420	1.12729	1.08931	3.583	
54 Ethyl Methacrylate	*****	*****	*****	*****	*****	*****	*****	<-
55 1,1,2-Trichloroethane	0.65561	0.62038	0.62738	0.59688	0.55826	0.61170	5.965	
56 Tetrachloroethene	0.81173	0.89957	0.80601	0.73328	0.66241	0.78260	11.421	
57 1,3-Dichloropropane	*****	*****	*****	*****	*****	*****	*****	<-
58 2-hexanone	0.49692	0.45629	0.53469	0.53572	0.51293	0.50731	6.463	
59 Dibromochloromethane	1.13478	1.10589	1.15316	1.08578	1.06130	1.10818	3.326	
60 1,2-Dibromoethane	*****	*****	*****	*****	*****	*****	*****	<-
61 Chlorobenzene	1.62487	1.73327	1.67030	1.52259	1.44291	1.65919	11.384	
62 1,1,1,2-Tetrachloroethane	*****	*****	*****	*****	*****	*****	*****	<-
63 Ethylbenzene	1.09325	1.01301	0.95970	0.87300	0.83558	0.95611	11.115	
64 m,p-Xylene	1.35787	1.21434	1.16455	1.08305	1.03395	1.16875	10.786	
65 o-Xylene	1.31581	1.19572	1.12374	1.03390	1.00512	1.13500	10.838	
66 Styrene	1.87107	1.77126	1.78226	1.69914	1.66805	1.75836	4.505	
67 Bromoform	0.67224	0.68712	0.73756	0.70356	0.65967	0.69203	4.376	
68 cis-1,4-Dichloro-2-butene	*****	*****	*****	*****	*****	*****	*****	<-