

July 24, 1991



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Volume II

Appendix D

of

**Supplementary Site Assessment
at Raybestos Memorial Field**

Draft Report

Responsible Agencies:

**US Environmental Protection Agency
Environmental Services Division
60 Westview Street
Lexington, MA 02173-3185
Attention: Art Wing**

And

**Connecticut Department of Environmental Protection
Hazardous Materials Management Unit
State Office Building
165 Capitol Avenue
Hartford, Connecticut 06106**

Submitted on Behalf of:

Daley Development Corporation

By:

**Environmental Science & Engineering, Inc.
555 Bridgeport Avenue
Shelton, Connecticut 06484**



**Environmental
Science &
Engineering, Inc.**

APPENDIX D
ORIGINAL LABORATORY DATA REPORTS AND
ESE VALIDATION REPORT

**Field Sample and Laboratory Designation
Cross Reference Table
Arochlor Data**

Boring	Depth	Field Sample ID		Laboratory Sample ID	
		PCB Screen	Full Analysis	PCB Screen	Full Analysis
170A	12-14		910320-034		97483-002
40D	8-10		910320-025		97483-003
ESE-2	0-2	910321-055		97456-003	
	2-4	910321-056		97456-005	
	4-6	910321-057		97456-007	
	6-8	910321-058*	910321-058	97456-009	97456-008
	8-10	910321-059		97456-011	
	10-12	910321-060		97456-013	
50D	8-10		910321-054		
60D	4-6		910320-043		97456-015
170S	12-14	910318-006*	910318-006	97337-002	
ESE-1	0-2	910319-015		97337-004	
	2-4	910319-016		97337-006	
	4-6	910319-017		97337-008	
	6-8	910319-018		97337-010	
	8-10	910319-019*	910319-019	97337-012	97337-011
	10-12	910319-020		97337-014	
BG-1	16-18	910328-126		97673-002	
ESE-11	0-2	910328-127		97673-004	
	2-4	910328-128		97673-006	
	4-6	910328-129		97673-008	
	6-8	910328-130		97673-010	
	8-10	910328-131*	910328-131	97673-012	97673-011

* Shown in analysis.

Field Sample and Laboratory Designation, continued
Cross Reference Table
Arochlor Data

ESE-11	10-12	910328-132		97673-014	
	12-14	910328-133		97673-016	
80D	6-8		910327-137		97797-001
ESE-13	0-2	910415-140		98217-003	
	2-4	910415-141		98217-005	
	4-6	910415-142		98217-007	
	6-8	910415-143		98217-009	
	8-10	910415-144		98217-011	
	10-12	910415-145*	910415-145	98217-013	98217-014
	12-14	910415-146		98217-015	
	14-16	910415-147		98217-017	
	16-18	910415-148		98217-019	
	18-20	910415-149		98217-021	
ESE-12	0-2	910415-150		98217-023	
	2-4	910415-151		98217-025	
	4-6	910415-152		98217-027	
	6-8	910415-153*	910415-153	98217-029	98217-030
	8-10	910415-154		98217-031	
	10-12	910415-155		98217-033	
	12-14	910415-156		98217-035	
	14-16	910415-157		98217-037	
	16-18	910415-158		98217-039	
ESE-14	0-2	910415-159		98272-001	
	2-4	910415-160*	910415-160	98272-003	98272-004
	4-6	910415-161		98272-005	
	6-8	910415-162		98272-007	
	8-10	910415-163		98272-009	

* Shown in analysis.

Field Sample and Laboratory Designation, continued
Cross Reference Table
Arochlor Data

ESE-14	10-12	910415-164		98272-011	
	12-14	910415-165		98272-013	
ESE-10	0-2	910327-101*	910327-101	97626-002	97626-001
	2-4	910327-113		97626-004	
	4-6	910327-114		97626-006	
	6-8	910327-115		97626-008	
	8-10	910327-116		97626-010	
	10-12	910327-117		97626-012	
BG-1	0-2	910327-118		97626-014	
	2-4	910327-119		97626-016	
	4-6	910327-120		97626-018	
	6-8	910327-121		97626-020	
	8-10	910327-122*	910327-122	97626-022	97626-021
	10-12	910327-123		97626-024	
	12-14	910327-124		97626-026	
	14-16	910327-125		97626-028	
ESE-4	0-2	910325-061		97529-002	
	2-4	910325-062		97529-004	
	6-8	910325-063		97529-006	
	8-10	910325-064*	910325-064	97529-008	97529-007
	10-12	910325-065		97529-010	
	12-14	910325-066		97529-012	
ESE-5	0-2	910325-067		97636-002	
	2-4	910325-068		97636-004	
	4-6	910325-069		97636-006	

* Shown in analysis.

Field Sample and Laboratory Designation, continued
Cross Reference Table
Arochlor Data

ESE-5	6-8	910325-070		97636-008	
	8-10	910325-071*	910325-071	97636-010	97636-009
ESE-15	0-2	910416-166		98272-015	
	2-4	910416-167		98272-017	
	4-6	910416-168*	910416-168	98272-019	98272-020
	6-8	910416-169		98272-021	
	8-10	910416-170		98272-023	
	10-12	910416-171		98272-025	
	12-14	910416-172		98272-027	
BG-2	0-2	910416-173		98272-029	
	2-4	910416-174		98272-031	
	4-6	910416-175		98272-033	
	6-8	910416-176		98272-035	
	8-10	910416-177		98272-037	
	10-12	910416-178		98272-039	
	12-14	910416-179		98272-041	
	14-16	910416-180		98272-043	
	16-18	910416-181*	910416-181	98272-045	98272-046
ESE-6	0-2	910325-072		97636-012	
	2-4	910325-073		97636-014	
	4-6	910325-074		97636-016	
	6-8	910325-075*	910325-075	97636-018	97636-017
	8-10	910325-076		97636-020	
	10-12	910325-077		97636-022	

* Shown in analysis.

Field Sample and Laboratory Designation, continued
Cross Reference Table
Arochlor Data

ESE-7	0-2	910326-078		97583-002	
	2-4	910326-079		97583-004	
	4-6	910326-080		97583-006	
	6-8	910326-083		97583-008	
	8-10	910326-084*	910326-084	97583-010	97583-009
ESE-8	0-2	910326-085		97583-012	
	2-4	910326-086		97583-014	
	4-6	910326-087		97583-016	
	6-8	910326-091		97583-018	
	8-10	910326-090		97583-020	
	10-12	910326-092*	910326-092	97583-022	97583-021
	12-14	910326-093		97583-024	
	14-16	910326-094		97583-026	
ESE-9	0-2	910326-095		97583-028	
	2-4	910326-096		97583-030	
	4-6	910326-097		97583-032	
	6-8	910326-098		97583-034	
	8-10	910326-099*	910326-099	97583-036	97583-035
	10-12	910326-100		97583-038	

* Shown in analysis.

ESE, Inc.
Shelton, CT

Raybestos 4904167.0005

Client #:910328-126
Lab #:97673-002

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910328-126

Date Collected: 3/28/91

EnviroTest Lab No: 97673-002

Date Received: 3/29/90

Client Name: ESE

Date Extracted: 4/1/91

Project Name: Raybestos

Date Analyzed: 4/2/91

% Solid: 88.2

Report Date: 4/8/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	2.8	U
11104-28-2	Arochlor-1221	2.8	U
11141-16-5	Arochlor-1232	2.8	U
53469-21-9	Arochlor-1242	2.8	U
12672-29-6	Arochlor-1248	2.8	U
11097-69-1	Arochlor-1254	2.8	U
11096-82-5	Arochlor-1260	2.8	U
37324-23-5	Arochlor-1262	2.8	U
11100-14-4	Arochlor-1268	2.8	1.9J

ESE, Inc.
Shelton, CT

Raybestos 4904167.0005

Client #:910328-127
Lab #:97673-004

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910328-127

Date Collected: 3/28/91

EnviroTest Lab No: 97673-004

Date Received: 3/29/90

Client Name: ESE

Date Extracted: 4/1/91

Project Name: Raybestos

Date Analyzed: 4/2/91

% Solid: 83.6

Report Date: 4/8/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	2.9	U
11104-28-2	Arochlor-1221	2.9	U
11141-16-5	Arochlor-1232	2.9	U
53469-21-9	Arochlor-1242	2.9	U
12672-29-6	Arochlor-1248	2.9	U
11097-69-1	Arochlor-1254	2.9	U
11096-82-5	Arochlor-1260	2.9	U
37324-23-5	Arochlor-1262	2.9	U
11100-14-4	Arochlor-1268	2.9	U

ESE, Inc.
Shelton, CT

Raybestos 4904167.0005

Client #:910328-128
Lab #:97673-006

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910328-128

Date Collected: 3/28/91

EnviroTest Lab No: 97673-006

Date Received: 3/29/90

Client Name: ESE

Date Extracted: 4/1/91

Project Name: Raybestos

Date Analyzed: 4/2/91

% Solid: 81.3

Report Date: 4/8/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	15	U
11104-28-2	Arochlor-1221	15	U
11141-16-5	Arochlor-1232	15	U
53469-21-9	Arochlor-1242	15	U
12672-29-6	Arochlor-1248	15	U
11097-69-1	Arochlor-1254	15	U
11096-82-5	Arochlor-1260	15	U
37324-23-5	Arochlor-1262	15	U
11100-14-4	Arochlor-1268	15	U

ESE, Inc.
Shelton, CT

Raybestos 4904167.0005

Client #:910328-129
Lab #:97673-008

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910328-129

Date Collected: 3/28/91

EnviroTest Lab No: 97673-008

Date Received: 3/29/90

Client Name: ESE

Date Extracted: 4/1/91

Project Name: Raybestos

Date Analyzed: 4/2/91

% Solid: 65.4

Report Date: 4/8/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	3.8	U
11104-28-2	Arochlor-1221	3.8	U
11141-16-5	Arochlor-1232	3.8	U
53469-21-9	Arochlor-1242	3.8	U
12672-29-6	Arochlor-1248	3.8	U
11097-69-1	Arochlor-1254	3.8	U
11096-82-5	Arochlor-1260	3.8	U
37324-23-5	Arochlor-1262	3.8	52
11100-14-4	Arochlor-1268	3.8	34

ESE, Inc.
Shelton, CT

Raybestos 4904167.0005

Client #:910328-130
Lab #:97673-010

Matrix: Soil

00009

PCB ORGANICS DATA RESULT FORM

Client ID: 910328-130

Date Collected: 3/28/91

EnviroTest Lab No: 97673-010

Date Received: 3/29/90

Client Name: ESE

Date Extracted: 4/1/91

Project Name: Raybestos

Date Analyzed: 4/2/91

% Solid: 74.4

Report Date: 4/8/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	16	U
11104-28-2	Arochlor-1221	16	U
11141-16-5	Arochlor-1232	16	U
53469-21-9	Arochlor-1242	16	U
12672-29-6	Arochlor-1248	16	U
11097-69-1	Arochlor-1254	16	U
11096-82-5	Arochlor-1260	16	U
37324-23-5	Arochlor-1262	16	120
11100-14-4	Arochlor-1268	16	54

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910328-131
Lab #97673-011

Matrix: Soil

VOLATILE ORGANICS DATA RESULTS FORM

Client ID: 910328-131

Date Collected: 3/28/91

EnviroTest Lab No: 97673-011

Date Received: 3/29/91

Client Name: ESE

Date Analyzed: 4/11/91

Project Name: Raybestos

Report Date: 5/13/91

‡ Solid: 55.1

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg
74-87-3	Chloromethane	3700	U
74-83-9	Bromomethane	3700	U
75-01-4	Vinyl chloride	3700	U
75-00-3	Chloroethane	3700	U
75-09-2	Methylene chloride	1800	U
67-64-1	Acetone	3700	U
75-15-0	Carbon disulfide	1800	U
75-35-4	1,1-Dichloroethene	1800	U
75-34-3	1,1-Dichloroethane	1800	U
540-59-0	1,2-Dichloroethene, total	1800	U
67-66-3	Chloroform	1800	U
107-02-2	1,2-Dichloroethane	1800	U
78-93-3	2-Butanone	3700	U
71-55-6	1,1,1-Trichloroethane	1800	U
56-23-5	Carbon tetrachloride	1800	U
108-05-4	Vinyl acetate	3700	U
75-27-4	Bromodichloromethane	1800	U
78-87-5	1,2-Dichloropropane	1800	U
10061-01-5	cis-1,3-Dichloropropene	1800	U
79-01-6	Trichloroethene	1800	U
71-43-2	Benzene	1800	U
124-48-1	Dibromochloromethane	1800	U
10061-02-6	trans-1,3-Dichloropropene	1800	U
79-00-5	1,1,2-Trichloroethane	1800	U
75-25-2	Bromoform	1800	U
108-10-1	4-Methyl-2-pentanone	3700	U
591-78-6	2-Hexanone	3700	U
79-34-5	1,1,2,2-Tetrachloroethane	1800	U
127-18-4	Tetrachloroethene	1800	U
108-88-3	Toluene	1800	2500
108-90-7	Chlorobenzene	1800	U
100-41-4	Ethylbenzene	1800	21,000
100-42-5	Styrene	1800	U
133-02-7	m-Xylene	1800	59,000
108-38-3	o,p-Xylene	1800	63,000

PESTICIDE ORGANICS DATA RESULT FORM

Client ID: 910328-131

Date Collected: 3/28/91

EnviroTest Lab No: 97673-011

Date Received: 3/29/91

Client Name: ESE

Date Extracted: 4/9/91

Project Name: Raybestos

Date Analyzed: 5/8/91

* Solid: 55.1

Report Date: 5/14/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg
319-84-6	alpha-BHC	94,200	U
319-85-7	beta-BHC	94,200	U
319-86-8	delta-BHC	94,200	U
58-89-9	gamma-BHC(Lindane)	94,200	U
76-44-8	Heptachlor	94,200	U
309-00-2	Aldrin	94,200	U
1024-57-3	Heptachlor epoxide	94,200	U
959-98-8	Endosulfan I	94,200	U
60-57-1	Dieldrin	188,000	U
72-55-9	4,4'-DDE	188,000	U
72-20-8	Endrin	188,000	U
33213-65-9	Endosulfan II	188,000	U
72-54-8	4,4'-DDD	188,000	U
1031-07-8	Endosulfan sulfate	188,000	U
50-29-3	4,4'-DDT	188,000	U
72-43-5	Methoxychlor	942,000	U
7421-93-4	Endrin aldehyde	188,000	U
5103-71-9	alpha-Chlordane	942,000	U
5103-74-2	gamma-Chlordane	942,000	U
8001-35-2	Toxaphene	1,880,000	U
12674-11-2	Arochlor-1016	942,000	U
11104-28-2	Arochlor-1221	942,000	U
11141-16-5	Arochlor-1232	942,000	U
53469-21-9	Arochlor-1242	942,000	U
12672-29-6	Arochlor-1248	942,000	U
11097-69-1	Arochlor-1254	1,880,000	U
11096-82-5	Arochlor-1260	1,880,000	U
37324-23-5	Arochlor-1262	1,880,000	2,920,000
11100-14-4	Arochlor-1268	1,880,000	7,100,000

SEMIVOLATILE ORGANICS DATA RESULT FORM

Client ID: 910328-131

Date Collected: 3/28/91

EnviroTest Lab No: 97673-011

Date Received: 3/29/91

Client Name: ESE

Date Extracted: 4/9/91

Project Name: Raybestos

Date Analyzed: 4/16/91

% Solid: 55.1

Report Date: 5/13/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg	CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg
108-95-2	Phenol	18,000	44,000	606-20-2	2,6-Dinitrotoluene	18,000	U
111-44-4	bis(-2-Chloroethyl)Ether	18,000	U	99-09-2	3-Nitroaniline	90,000	U
95-57-8	2-Chlorophenol	18,000	U	83-32-9	Acenaphthene	18,000	U
541-73-1	1,3-Dichlorobenzene	18,000	U	51-28-5	2,4-Dinitrophenol	90,000	U
106-46-7	1,4-Dichlorobenzene	18,000	U	100-02-7	4-Nitrophenol	90,000	U
100-51-6	Benzyl alcohol	18,000	U	132-64-9	Dibenzofuran	18,000	U
95-50-1	1,2-Dichlorobenzene	18,000	U	121-14-2	2,4-Dinitrotoluene	18,000	U
9-7	2-Methylphenol	18,000	260,000	84-66-2	Diethylphthalate	18,000	U
60-1	bis(2-chloroisopropyl)ether	18,000	U	7005-72-3	4-Chlorophenyl-phenyl ether	18,000	U
106-44-5	4-Methylphenol	18,000	1,900,000E	86-73-7	Fluorene	18,000	U
621-64-7	N-Nitroso-Di-n-propylamine	18,000	U	534-52-1	4,6-Dinitro-2-methylphenol	90,000	42,1
67-72-1	Hexachloroethane	18,000	U	86-30-6	N-Nitrosodiphenylamine *	18,000	U
98-95-3	Nitrobenzene	18,000	U	101-55-3	4-Bromophenyl-phenyl ether	18,000	U
78-59-1	Isophorone	18,000	U	118-74-1	Hexachlorobenzene	18,000	U
88-75-5	2-Nitrophenol	18,000	U	87-86-5	Pentachlorophenol	90,000	U
105-67-9	2,4-Dimethylphenol	18,000	2,000,000E	85-01-8	Phenanthrene	18,000	U
65-85-0	Benzoic acid	90,000	U	120-12-7	Anthracene	18,000	U
111-91-1	bis(-2-Chloroethoxy)methane	18,000	U	84-74-2	Di-n-butylphthalate	18,000	U
120-83-2	2,4-Dichlorophenol	18,000	U	206-44-0	Fluoranthene	18,000	U
120-82-1	1,2,4-Trichlorobenzene	18,000	U	129-00-0	Pyrene	18,000	U
91-20-3	Naphthalene	18,000	33,000	85-68-7	Butylbenzylphthalate	18,000	U
106-47-8	4-Chloroaniline	18,000	U	91-94-1	3,3'-Dichlorobenzidine	36,000	U
87-68-3	Hexachlorobutadiene	18,000	U	56-55-3	Benzo(a)anthracene	18,000	U
59-50-7	4-Chloro-3-methylphenol	18,000	U	218-01-9	Chrysene	18,000	U
91-57-6	2-Methylnaphthalene	18,000	U	117-81-7	bis(2-Ethylhexyl)phthalate	18,000	U
77-47-4	Hexachlorocyclopentadiene	18,000	U	117-84-0	Di-n-octylphthalate	18,000	U
88-06-2	2,4,6-Trichlorophenol	18,000	U	205-99-2	Benzo(b)fluoranthene	18,000	U
95-95-4	2,4,5-Trichlorophenol	90,000	U	207-08-9	Benzo(k)fluoranthene	18,000	U
91-58-7	2-Chloronaphthalene	18,000	U	50-32-8	Benzo(a)pyrene	18,000	U
88-74-4	2-Nitroaniline	90,000	U	193-39-5	Indeno(1,2,3-cd)pyrene	18,000	U
131-11-3	Dimethylphthalate	18,000	U	53-70-3	Dibenzo(a,h)anthracene	18,000	U
208-96-8	Acenaphthylene	18,000	U	191-24-2	Benzo(g,h,i)perylene	18,000	U
				100-01-6	4-Nitroaniline	90,000	U

* Cannot be separated from diphenylamine

SEMIVOLATILE ORGANICS DATA RESULT FORM

Client ID: 910328-131

Date Collected: 3/28/91

EnviroTest Lab No: 97673-0110L

Date Received: 3/29/91

Client Name: ESE

Date Extracted: 4/9/91

Project Name: Raybestos

Date Analyzed: 4/19/91

% Solid: 55.1

Report Date: 5/13/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg	CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg
108-95-2	Phenol	1,800,000	U	606-20-2	2,6-Dinitrotoluene	1,800,000	U
111-44-4	bis(-2-Chloroethyl)Ether	1,800,000	U	99-09-2	3-Nitroaniline	9,000,000	U
95-57-8	2-Chlorophenol	1,800,000	U	83-32-9	Acenaphthene	1,800,000	U
541-73-1	1,3-Dichlorobenzene	1,800,000	U	51-28-5	2,4-Dinitrophenol	9,000,000	U
106-46-7	1,4-Dichlorobenzene	1,800,000	U	100-02-7	4-Nitrophenol	9,000,000	U
100-51-6	Benzyl alcohol	1,800,000	U	132-64-9	Dibenzofuran	1,800,000	U
95-50-1	1,2-Dichlorobenzene	1,800,000	U	121-14-2	2,4-Dinitrotoluene	1,800,000	U
91-07-7	2-Methylphenol	1,800,000	U	84-66-2	Diethylphthalate	1,800,000	U
108-95-2	bis(2-chloroisopropyl)ether	1,800,000	U	7005-72-3	4-Chlorophenyl-phenyl ether	1,800,000	U
108-95-2	4-Methylphenol	1,800,000	19,000,000	86-73-7	Fluorene	1,800,000	U
621-64-7	N-Nitroso-Di-n-propylamine	1,800,000	U	534-52-1	4,6-Dinitro-2-methylphenol	9,000,000	U
67-72-1	Hexachloroethane	1,800,000	U	86-30-6	N-Nitrosodiphenylamine *	1,800,000	U
98-95-3	Nitrobenzene	1,800,000	U	101-55-3	4-Bromophenyl-phenyl ether	1,800,000	U
78-59-1	Isophorone	1,800,000	U	118-74-1	Hexachlorobenzene	1,800,000	U
88-75-5	2-Nitrophenol	1,800,000	U	87-86-5	Pentachlorophenol	9,000,000	U
105-67-9	2,4-Dimethylphenol	1,800,000	4,400,000	85-01-8	Phenanthrene	1,800,000	U
65-85-0	Benzoic acid	9,000,000	U	120-12-7	Anthracene	1,800,000	U
111-91-1	bis(-2-Chloroethoxy)methane	1,800,000	U	84-74-2	Di-n-butylphthalate	1,800,000	U
120-83-2	2,4-Dichlorophenol	1,800,000	U	206-44-0	Fluoranthene	1,800,000	U
120-82-1	1,2,4-Trichlorobenzene	1,800,000	U	129-00-0	Pyrene	1,800,000	U
91-20-3	Naphthalene	1,800,000	U	85-68-7	Butylbenzylphthalate	1,800,000	U
106-47-8	4-Chloroaniline	1,800,000	U	91-94-1	3,3'-Dichlorobenzidine	3,600,000	U
87-68-3	Hexachlorobutadiene	1,800,000	U	56-55-3	Benzo(a)anthracene	1,800,000	U
59-50-7	4-Chloro-3-methylphenol	1,800,000	U	218-01-9	Chrysene	1,800,000	U
91-57-6	2-Methylnaphthalene	1,800,000	U	117-81-7	bis(2-Ethylhexyl)phthalate	1,800,000	U
77-47-4	Hexachlorocyclopentadiene	1,800,000	U	117-84-0	Di-n-octylphthalate	1,800,000	U
88-06-2	2,4,6-Trichlorophenol	1,800,000	U	205-99-2	Benzo(b)fluoranthene	1,800,000	U
95-95-4	2,4,5-Trichlorophenol	9,000,000	U	207-08-9	Benzo(k)fluoranthene	1,800,000	U
91-58-7	2-Chloronaphthalene	1,800,000	U	50-32-8	Benzo(a)pyrene	1,800,000	U
88-74-4	2-Nitroaniline	9,000,000	U	193-39-5	Indeno(1,2,3-cd)pyrene	1,800,000	U
131-11-3	Dimethylphthalate	1,800,000	U	53-70-3	Dibenzo(a,h)anthracene	1,800,000	U
208-96-8	Acenaphthylene	1,800,000	U	191-24-2	Benzo(g,h,i)perylene	1,800,000	U
				100-01-6	4-Nitroaniline	9,000,000	U

* Cannot be separated from diphenylamine

ORGANICS DATA RESULT FORM
TENTATIVELY IDENTIFIED COMPOUNDS

Client ID: 910328-131
 EnviroTest Lab No: 97673-011
 Client Name: ESE
 Project Name: Raybestos

Date Collected: 3/28/91
 Date Received: 3/29/91
 Report Date: 5/13/91
 Matrix:

* Solid: 55.1

CAS NO.	COMPOUND	FRACTION	RT or SCAN NUMBER	ESTIMATED CONCENTRATION (ug/kg)
103651	Propylbenzene	VOA	35.95	2600
611143	1-Ethyl-2-methylbenzene	VOA	40.39	23,000
	Ethylmethylbenzene isomer	VOA	41.99	18,000
	Unknown	BNA	5.24	49,000
	Ethylmethylbenzene isomer	BNA	7.30	10,900
535773	1-Methyl-3-(1-methylethyl) benzene	BNA	9.13	10,900
90006	2-Ethylphenol	BNA	10.71	7300
119335	4-Methyl-2-nitrophenol	BNA	13.11	54,400
	Unknown	BNA	14.61	12,700
97518	2-Hydroxy-5-nitrobenz aldehyde	BNA	14.83	56,300
	Unknown	BNA	16.31	72,600
2581342	3-Methyl-4-nitrophenol	BNA	18.56	9100
629925	Nonadecane	BNA	23.00	7300
	Heptachlorobiphenyl isomer	BNA	29.38	56,300
35065293	2,2',3,4,4',5,5'-Hepta chloro-1,1'-biphenyl	BNA	30.57	38,100
	Octachlorobiphenyl isomer	BNA	31.50	72,600
52663782	2,2',3,3',4,4',5,6-Octa chloro-1,1'-biphenyl	BNA	31.64	65,300
	Octachlorobiphenyl isomer	BNA	32.72	34,500
33306557	1,1',2,2',3,3'-Hexachloro ferrocene	BNA	33.60	49,000

ESE, Inc.
Shelton, CT

Raybestos 4904167.0005

Client #:910328-131

Lab #:97673-012

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910328-131

Date Collected: 3/28/91

EnviroTest Lab No: 97673-012

Date Received: 3/29/90

Client Name: ESE

Date Extracted: 4/1/91

Project Name: Raybestos

Date Analyzed: 4/2/91

% Solid: 55.1

Report Date: 4/8/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	4500	U
11104-28-2	Arochlor-1221	4500	U
11141-16-5	Arochlor-1232	4500	U
53469-21-9	Arochlor-1242	4500	U
12672-29-6	Arochlor-1248	4500	U
11097-69-1	Arochlor-1254	4500	U
11096-82-5	Arochlor-1260	4500	U
37324-23-5	Arochlor-1262	4500	19,100
11100-14-4	Arochlor-1268	4500	29,500

Note: Results are final results after re-analysis to bring area counts in the linear range.

ESE, Inc.
Shelton, CT

Raybestos 4904167.0005

Client #:910328-132
Lab #:97673-014

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910328-132

Date Collected: 3/28/91

EnviroTest Lab No: 97673-014

Date Received: 3/29/90

Client Name: ESE

Date Extracted: 4/1/91

Project Name: Raybestos

Date Analyzed: 4/2/91

% Solid: 80.2

Report Date: 4/8/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	3.1	U
11104-28-2	Arochlor-1221	3.1	U
11141-16-5	Arochlor-1232	3.1	U
53469-21-9	Arochlor-1242	3.1	U
12672-29-6	Arochlor-1248	3.1	U
11097-69-1	Arochlor-1254	3.1	U
11096-82-5	Arochlor-1260	3.1	U
37324-23-5	Arochlor-1262	3.1	14
11100-14-4	Arochlor-1268	3.1	100

00020

ESE, Inc.
Shelton, CT

Raybestos 4904167.0005

Client #:910328-133
Lab #:97673-016

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910328-133

Date Collected: 3/28/91

EnviroTest Lab No: 97673-016

Date Received: 3/29/90

Client Name: ESE

Date Extracted: 4/1/91

Project Name: Raybestos

Date Analyzed: 4/2/91

% Solid: 94.6

Report Date: 4/8/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	13	U
11104-28-2	Arochlor-1221	13	U
11141-16-5	Arochlor-1232	13	U
53469-21-9	Arochlor-1242	13	U
12672-29-6	Arochlor-1248	13	U
11097-69-1	Arochlor-1254	13	U
11096-82-5	Arochlor-1260	13	U
37324-23-5	Arochlor-1262	13	300
11100-14-4	Arochlor-1268	13	410

ESE, Inc.
Shelton, CT

Raybestos Ballfield 4904167.0005

Client ID: 910327-137
Lab #: 97797-001

Matrix: Soil

00023

VOLATILE ORGANICS DATA RESULTS FORM

Client ID: 910327-137

Date Collected: 4/1/91

EnviroTest Lab No: 97797-001

Date Received: 4/3/91

Client Name: ESE

Date Analyzed: 4/8/91

Project Name: Raybestos

Report Date: 5/13/91

% Solid: 82.4

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg
74-87-3	Chloromethane	12.2	U
74-83-9	Bromomethane	12.2	U
75-01-4	Vinyl chloride	12.2	U
75-00-3	Chloroethane	12.2	U
75-09-2	Methylene chloride	6.1	U
67-64-1	Acetone	12.2	56
75-15-0	Carbon disulfide	6.1	U
75-35-4	1,1-Dichloroethene	6.1	U
75-34-3	1,1-Dichloroethane	6.1	U
540-59-0	1,2-Dichloroethene, total	6.1	U
67-66-3	Chloroform	6.1	U
107-02-2	1,2-Dichloroethane	6.1	U
78-93-3	2-Butanone	12.2	U
71-55-6	1,1,1-Trichloroethane	6.1	U
56-23-5	Carbon tetrachloride	6.1	U
108-05-4	Vinyl acetate	12.2	U
75-27-4	Bromodichloromethane	6.1	U
78-87-5	1,2-Dichloropropane	6.1	U
10061-01-5	cis-1,3-Dichloropropene	6.1	U
79-01-6	Trichloroethene	6.1	U
71-43-2	Benzene	6.1	U
124-48-1	Dibromochloromethane	6.1	U
10061-02-6	trans-1,3-Dichloropropene	6.1	U
79-00-5	1,1,2-Trichloroethane	6.1	U
75-25-2	Bromoform	6.1	U
108-10-1	4-Methyl-2-pentanone	12.2	U
591-78-6	2-Hexanone	12.2	U
79-34-5	1,1,2,2-Tetrachloroethane	6.1	U
127-18-4	Tetrachloroethene	6.1	U
108-88-3	Toluene	6.1	U
108-90-7	Chlorobenzene	6.1	U
100-41-4	Ethylbenzene	6.1	U
100-42-5	Styrene	6.1	U
133-02-7	m-Xylene	6.1	U
108-38-3	o,p-Xylene	6.1	U

PESTICIDE ORGANICS DATA RESULT FORM

Client ID: 910327-137

Date Collected: 4/1/91

EnviroTest Lab No: 97797-001

Date Received: 4/3/91

Client Name: ESE

Date Extracted: 4/9/91

Project Name: Raybestos

Date Analyzed: 5/3/91

% Solid: 82.4

Report Date: 5/14/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC(Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	4.0	U
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	4.0	U
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	4.0	U
72-43-5	Methoxychlor	20	U
7421-93-4	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	20	U
5103-74-2	gamma-Chlordane	20	U
8001-35-2	Toxaphene	40	U
12674-11-2	Arochlor-1016	20	U
11104-28-2	Arochlor-1221	20	U
11141-16-5	Arochlor-1232	20	U
53469-21-9	Arochlor-1242	20	U
12672-29-6	Arochlor-1248	20	U
11097-69-1	Arochlor-1254	40	U
11096-82-5	Arochlor-1260	40	U
37324-23-5	Arochlor-1262	40	U
11100-14-4	Arochlor-1268	40	U

SEMIVOLATILE ORGANICS DATA RESULT FORM

Client ID: 910327-137
 EnviroTest Lab No: 97797-001
 Client Name: ESE
 Project Name: Raybestos
 % Solid: 82.4
 Matrix: Soil

Date Collected: 4/1/91
 Date Received: 4/3/91
 Date Extracted: 4/9/91
 Date Analyzed: 4/11/91
 Report Date: 5/13/91

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg	CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg
108-95-2	Phenol	400	U	606-20-2	2,6-Dinitrotoluene	400	U
111-44-4	bis(-2-Chloroethyl)Ether	400	U	99-09-2	3-Nitroaniline	2000	U
95-57-8	2-Chlorophenol	400	U	83-32-9	Acenaphthene	400	U
541-73-1	1,3-Dichlorobenzene	400	U	51-28-5	2,4-Dinitrophenol	2000	U
106-46-7	1,4-Dichlorobenzene	400	U	100-02-7	4-Nitrophenol	2000	U
100-51-6	Benzyl alcohol	400	U	132-64-9	Dibenzofuran	400	U
95-50-1	1,2-Dichlorobenzene	400	U	121-14-2	2,4-Dinitrotoluene	400	U
7	2-Methylphenol	400	U	84-66-2	Diethylphthalate	400	U
J-1	bis(2-chloroisopropyl)ether	400	U	7005-72-3	4-Chlorophenyl-phenyl ether	400	U
106-44-5	4-Methylphenol	400	U	86-73-7	Fluorene	400	U
621-64-7	N-Nitroso-Di-n-propylamine	400	U	534-52-1	4,6-Dinitro-2-methylphenol	2000	U
67-72-1	Hexachloroethane	400	U	86-30-6	N-Nitrosodiphenylamine *	400	U
98-95-3	Nitrobenzene	400	U	101-55-3	4-Bromophenyl-phenyl ether	400	U
78-59-1	Isophorone	400	U	118-74-1	Hexachlorobenzene	400	U
88-75-5	2-Nitrophenol	400	U	87-86-5	Pentachlorophenol	2000	U
105-67-9	2,4-Dimethylphenol	400	U	85-01-8	Phenanthrene	400	U
65-85-0	Benzoic acid	2000	U	120-12-7	Anthracene	400	U
111-91-1	bis(-2-Chloroethoxy)methane	400	U	84-74-2	Di-n-butylphthalate	400	U
120-83-2	2,4-Dichlorophenol	400	U	206-44-0	Fluoranthene	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U	129-00-0	Pyrene	400	U
91-20-3	Naphthalene	400	U	85-68-7	Butylbenzylphthalate	400	U
106-47-8	4-Chloroaniline	400	U	91-94-1	3,3'-Dichlorobenzidine	800	U
87-68-3	Hexachlorobutadiene	400	U	56-55-3	Benzo(a)anthracene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U	218-01-9	Chrysene	400	U
91-57-6	2-Methylnaphthalene	400	U	117-81-7	bis(2-Ethylhexyl)phthalate	400	U
77-47-4	Hexachlorocyclopentadiene	400	U	117-84-0	Di-n-octylphthalate	400	U
88-06-2	2,4,6-Trichlorophenol	400	U	205-99-2	Benzo(b)fluoranthene	400	U
95-95-4	2,4,5-Trichlorophenol	2000	U	207-08-9	Benzo(k)fluoranthene	400	U
91-58-7	2-Chloronaphthalene	400	U	50-32-8	Benzo(a)pyrene	400	U
88-74-4	2-Nitroaniline	2000	U	193-39-5	Indeno(1,2,3-cd)pyrene	400	U
131-11-3	Dimethylphthalate	400	U	53-70-3	Dibenzo(a,h)anthracene	400	U
208-96-8	Acenaphthylene	400	U	191-24-2	Benzo(g,h,i)perylene	400	U
				100-01-6	4-Nitroaniline	2000	U

* Cannot be separated from diphenylamine

ORGANICS DATA RESULT FORM
TENTATIVELY IDENTIFIED COMPOUNDS

Client ID: 910327-137

Date Collected: 4/1/91

EnviroTest Lab No: 97797-001

Date Received: 4/3/91

Client Name: ESE

Report Date: 5/13/91

Project Name: Raybestos

Matrix: Soil

% Solid: 82.4

CAS NO.	COMPOUND	FRACTION	RT or SCAN NUMBER	ESTIMATED CONCENTRATION (ug/l)
71238	1-Propanol	VOA	9.90	36
28056873	2-Ethyl-N,N-dimethyl-1-hexanamine	BNA	5.40	21,000
	Dimethylcyclopentane isomer	BNA	6.50	240

ESE, Inc.
Shelton, CT

Raybestos

Client ID:910415-138

Trip Blank

Lab #98217-001

Matrix: Soil

VOLATILE ORGANICS DATA RESULTS FORM

Client ID: 910415-138 Trip Blank

Date Collected: 4/15/91

EnviroTest Lab No: 98217-001

Date Received: 4/16/91

Client Name: ESE

Date Analyzed: 4/23/91

Project Name: Raybestos

Report Date: 5/14/91

‡ Solid:

Matrix: Water

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	10	11J
75-15-0	Carbon disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene, total	5	U
67-66-3	Chloroform	5	U
107-02-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
71-43-2	Benzene	5	U
124-48-1	Dibromochloromethane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
133-02-7	m-Xylene	5	U
108-38-3	o,p-Xylene	5	U

ORGANICS DATA RESULT FORM
TENTATIVELY IDENTIFIED COMPOUNDS

Client ID: 910415-138 Trip Blk

Date Collected: 4-15-91

EnviroTest Lab No: 98217-001

Date Received: 4-16-91

Client Name: ESE, Inc.

Report Date: 5-21-91

Project Name: Raybestos

Matrix: Soil

% Solid: NA

CAS NO.	COMPOUND	FRACTION	RT or SCAN NUMBER	ESTIMATED CONCENTRATION (ug/kg)
	Unknown	VOA	6.14	6
	Unknown	VOA	9.44	14
71238	1-Propanol	VOA	11.00	86

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910415-139

Field Blank

Lab #98217-002

Matrix: Soil

VOLATILE ORGANICS DATA RESULTS FORM

Client ID: 910415-139 Field Blank

Date Collected: 4/15/91

EnviroTest Lab No: 98217-002

Date Received: 4/16/91

Client Name: ESE

Date Analyzed: 4/22/91

Project Name: Raybestos

Report Date: 5/14/91

* Solid:

Matrix: Water

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	10	7J
75-15-0	Carbon disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene, total	5	U
67-66-3	Chloroform	5	U
107-02-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	3J
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
71-43-2	Benzene	5	U
124-48-1	Dibromochloromethane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
133-02-7	m-Xylene	5	U
108-38-3	o,p-Xylene	5	U

60032

PESTICIDE ORGANICS DATA RESULT FORM

Client ID: 910415-139 Field Blank

Date Collected: 4/15/91

EnviroTest Lab No: 98217-002

Date Received: 4/16/91

Client Name: ESE

Date Extracted: 4/22/91

Project Name: Raybestos

Date Analyzed: 5/2/91

% Solid:

Report Date: 5/14/91

Matrix: Water

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC(Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4'-DDE	0.1	U
72-20-8	Endrin	0.1	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4'-DDD	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U
50-29-3	4,4'-DDT	0.1	U
72-43-5	Methoxychlor	0.5	U
7421-93-4	Endrin aldehyde	0.1	U
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-21-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	1.0	U
11096-82-5	Arochlor-1260	1.0	U
37324-23-5	Arochlor-1262	1.0	U
11100-14-4	Arochlor-1268	1.0	U

00033

SEMIVOLATILE ORGANICS DATA RESULT FORM

Client ID: 910415-139 Field Blk

Date Collected: 4-15-91

EnviroTest Lab.No: 98217-002

Date Received: 4-16-91

Client Name: ESE, Inc.

Date Extracted: 4-22-91

Project Name: Raybestos

Date Analyzed: 5-8-91

% Solid: NA

Report Date: 5-21-91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg	CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg
108-95-2	Phenol	10	U	606-20-2	2,6-Dinitrotoluene	10	U
111-44-4	bis(-2-Chloroethyl)Ether	10	U	99-09-2	3-Nitroaniline	50	U
95-57-8	2-Chlorophenol	10	U	83-32-9	Acenaphthene	10	U
541-73-1	1,3-Dichlorobenzene	10	U	51-28-5	2,4-Dinitrophenol	50	U
106-46-7	1,4-Dichlorobenzene	10	U	100-02-7	4-Nitrophenol	50	U
100-51-6	Benzyl alcohol	10	U	132-64-9	Dibenzofuran	10	U
95-50-1	1,2-Dichlorobenzene	10	U	121-14-2	2,4-Dinitrotoluene	10	U
1-7	2-Methylphenol	10	U	84-66-2	Diethylphthalate	10	U
50-1	bis(2-chloroisopropyl)ether	10	U	7005-72-3	4-Chlorophenyl-phenyl ether	10	U
106-44-5	4-Methylphenol	10	U	86-73-7	Fluorene	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U	534-52-1	4,6-Dinitro-2-methylphenol	50	U
67-72-1	Hexachloroethane	10	U	86-30-6	N-Nitrosodiphenylamine *	10	U
98-95-3	Nitrobenzene	10	U	101-55-3	4-Bromophenyl-phenyl ether	10	U
78-59-1	Isophorone	10	U	118-74-1	Hexachlorobenzene	10	U
88-75-5	2-Nitrophenol	10	U	87-86-5	Pentachlorophenol	50	U
105-67-9	2,4-Dimethylphenol	10	U	85-01-8	Phenanthrene	10	U
65-85-0	Benzoic acid	50	U	120-12-7	Anthracene	10	U
111-91-1	bis(-2-Chloroethoxy)methane	10	U	84-74-2	Di-n-butylphthalate	10	U
120-83-2	2,4-Dichlorophenol	10	U	206-44-0	Fluoranthene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U	129-00-0	Pyrene	10	U
91-20-3	Naphthalene	10	U	85-68-7	Butylbenzylphthalate	10	U
106-47-8	4-Chloroaniline	10	U	91-94-1	3,3'-Dichlorobenzidine	20	U
87-68-3	Hexachlorobutadiene	10	U	56-55-3	Benzo(a)anthracene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U	218-01-9	Chrysene	10	U
91-57-6	2-Methylnaphthalene	10	U	117-81-7	bis(2-Ethylhexyl)phthalate	10	U
77-47-4	Hexachlorocyclopentadiene	10	U	117-84-0	Di-n-octylphthalate	10	U
88-06-2	2,4,6-Trichlorophenol	10	U	205-99-2	Benzo(b)fluoranthene	10	U
95-95-4	2,4,5-Trichlorophenol	50	U	207-08-9	Benzo(k)fluoranthene	10	U
91-58-7	2-Chloronaphthalene	10	U	50-32-8	Benzo(a)pyrene	10	U
88-74-4	2-Nitroaniline	50	U	193-39-5	Indeno(1,2,3-cd)pyrene	10	U
131-11-3	Dimethylphthalate	10	U	53-70-3	Dibenzo(a,h)anthracene	10	U
208-96-8	Acenaphthylene	10	U	191-24-2	Benzo(g,h,i)perylene	10	U
				100-01-6	4-Nitroaniline	50	U

* Cannot be separated from diphenylamine

ORGANICS DATA RESULT FORM
TENTATIVELY IDENTIFIED COMPOUNDS

Client ID: 910415-139 Field Blk

Date Collected: 4-15-91

EnviroTest Lab No: 98217-002

Date Received: 4-16-91

Client Name: ESE, Inc.

Report Date: 5-21-91

Project Name: Raybestos

Matrix: Soil

% Solid: NA

CAS NO.	COMPOUND	FRACTION	RT or SCAN NUMBER	ESTIMATED CONCENTRATION (ug/kg)

No extra peaks detected in VOA fraction at >10% of internal standard.				
	Unknown	BNA	5.33	39
111762	2-Butoxy ethanol	BNA	6.37	13
111900	2-(2-Ethoxy ethoxy) ethanol	BNA	6.14	10

00035

ESE, Inc.
Shelton, CT

Raybestos

Client ID:910415-140
Lab #98217-003

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-140

Date Collected: 4/15/91

EnviroTest Lab No: 98217-003

Date Received: 4/16/91

Client Name: ESE

Date Extracted: 4/16/91

Project Name: Raybestos

Date Analyzed: 4/16/91

% Solid: 84.3

Report Date: 4/18/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	13	U
11104-28-2	Arochlor-1221	13	U
11141-16-5	Arochlor-1232	13	U
53469-21-9	Arochlor-1242	13	U
12672-29-6	Arochlor-1248	13	U
11097-69-1	Arochlor-1254	13	U
11096-82-5	Arochlor-1260	13	U
37324-23-5	Arochlor-1262	13	U
11100-14-4	Arochlor-1268	13	U

ESE, Inc.
Shelton, CT

Raybestos

Client ID:910415-141
Lab #98217-005

Matrix: Soil

! 00038

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-141

Date Collected: 4/15/91

EnviroTest Lab No: 98217-005

Date Received: 4/16/91

Client Name: ESE

Date Extracted: 4/16/91

Project Name: Raybestos

Date Analyzed: 4/16/91

% Solid: 80.9

Report Date: 4/18/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	4.0	U
11104-28-2	Arochlor-1221	4.0	U
11141-16-5	Arochlor-1232	4.0	U
53469-21-9	Arochlor-1242	4.0	U
12672-29-6	Arochlor-1248	4.0	U
11097-69-1	Arochlor-1254	4.0	U
11096-82-5	Arochlor-1260	4.0	U
37324-23-5	Arochlor-1262	4.0	U
11100-14-4	Arochlor-1268	4.0	U

00039

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910415-142
Lab #98217-007

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-142

Date Collected: 4/15/91

EnviroTest Lab No: 98217-007

Date Received: 4/16/91

Client Name: ESE

Date Extracted: 4/16/91

Project Name: Raybestos

Date Analyzed: 4/16/91

% Solid: 90.3

Report Date: 4/18/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	3.0	U
11104-28-2	Arochlor-1221	3.0	U
11141-16-5	Arochlor-1232	3.0	U
53469-21-9	Arochlor-1242	3.0	U
12672-29-6	Arochlor-1248	3.0	U
11097-69-1	Arochlor-1254	3.0	U
11096-82-5	Arochlor-1260	3.0	U
37324-23-5	Arochlor-1262	3.0	3.5
11100-14-4	Arochlor-1268	3.0	2J

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910415-143
Lab #98217-009

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-143

Date Collected: 4/15/91

EnviroTest Lab No: 98217-009

Date Received: 4/16/91

Client Name: ESE

Date Extracted: 4/16/91

Project Name: Raybestos

Date Analyzed: 4/16/91

% Solid: 82.1

Report Date: 4/18/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	6.2	U
11104-28-2	Arochlor-1221	6.2	U
11141-16-5	Arochlor-1232	6.2	U
53469-21-9	Arochlor-1242	6.2	U
12672-29-6	Arochlor-1248	6.2	U
11097-69-1	Arochlor-1254	6.2	U
11096-82-5	Arochlor-1260	6.2	U
37324-23-5	Arochlor-1262	6.2	8.1
11100-14-4	Arochlor-1268	6.2	8.3

00043

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910415-144
Lab #98217-011

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-144

Date Collected: 4/15/91

EnviroTest Lab No: 98217-011

Date Received: 4/16/91

Client Name: ESE

Date Extracted: 4/16/91

Project Name: Raybestos

Date Analyzed: 4/16/91

% Solid: 65.1

Report Date: 4/18/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	3.9	U
11104-28-2	Arochlor-1221	3.9	U
11141-16-5	Arochlor-1232	3.9	U
53469-21-9	Arochlor-1242	3.9	U
12672-29-6	Arochlor-1248	3.9	U
11097-69-1	Arochlor-1254	3.9	U
11096-82-5	Arochlor-1260	3.9	U
37324-23-5	Arochlor-1262	3.9	6.9
11100-14-4	Arochlor-1268	3.9	7.7

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910415-145
Lab # 98217-013

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-145

Date Collected: 4/15/91

EnviroTest Lab No: 98217-013

Date Received: 4/16/91

Client Name: ESE

Date Extracted: 4/16/91

Project Name: Raybestos

Date Analyzed: 4/16/91

% Solid: 40.8

Report Date: 4/18/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	6.1	U
11104-28-2	Arochlor-1221	6.1	U
11141-16-5	Arochlor-1232	6.1	U
53469-21-9	Arochlor-1242	6.1	U
12672-29-6	Arochlor-1248	6.1	U
11097-69-1	Arochlor-1254	6.1	U
11096-82-5	Arochlor-1260	6.1	U
37324-23-5	Arochlor-1262	6.1	6.9
11100-14-4	Arochlor-1268	6.1	8.1

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910415-145
Lab #98217-014

Matrix: Soil

00048

VOLATILE ORGANICS DATA RESULTS FORM

Client ID: 910415-145

Date Collected: 4/15/91

EnviroTest Lab No: 98217-014

Date Received: 4/16/91

Client Name: ESE

Date Analyzed: 4/22/91

Project Name: Raybestos

Report Date: 5/14/91

% Solid: 40.8

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg
74-87-3	Chloromethane	24	U
74-83-9	Bromomethane	24	U
75-01-4	Vinyl chloride	24	U
75-00-3	Chloroethane	24	U
75-09-2	Methylene chloride	12	U
67-64-1	Acetone	24	10000E
75-15-0	Carbon disulfide	12	30
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene, total	12	U
67-66-3	Chloroform	12	U
107-02-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	24	17
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon tetrachloride	12	U
108-05-4	Vinyl acetate	24	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	48
71-43-2	Benzene	12	U
124-48-1	Dibromochloromethane	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-pentanone	24	U
591-78-6	2-Hexanone	24	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
127-18-4	Tetrachloroethene	12	U
108-88-3	Toluene	12	18
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	14
100-42-5	Styrene	12	U
133-02-7	m-Xylene	12	45
108-38-3	o,p-Xylene	12	76

00049

VOLATILE ORGANICS DATA RESULTS FORM

Client ID: 910415-145

Date Collected: 4/15/91

EnviroTest Lab No: 98217-014DL

Date Received: 4/16/91

Client Name: ESE

Date Analyzed: 4/26/91

Project Name: Raybestos

Report Date: 5/14/91

% Solid: 40.8

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg
74-87-3	Chloromethane	2440	U
74-83-9	Bromomethane	2440	U
75-01-4	Vinyl chloride	2440	U
75-00-3	Chloroethane	2440	U
75-09-2	Methylene chloride	1220	U
67-64-1	Acetone	2440	10500D
75-15-0	Carbon disulfide	1220	U
75-35-4	1,1-Dichloroethene	1220	U
75-34-3	1,1-Dichloroethane	1220	U
540-59-0	1,2-Dichloroethene, total	1220	U
67-66-3	Chloroform	1220	U
107-02-2	1,2-Dichloroethane	1220	U
78-93-3	2-Butanone	2440	U
71-55-6	1,1,1-Trichloroethane	1220	U
56-23-5	Carbon tetrachloride	1220	U
108-05-4	Vinyl acetate	2440	U
75-27-4	Bromodichloromethane	1220	U
78-87-5	1,2-Dichloropropane	1220	U
10061-01-5	cis-1,3-Dichloropropene	1220	U
79-01-6	Trichloroethene	1220	U
71-43-2	Benzene	1220	U
124-48-1	Dibromochloromethane	1220	U
10061-02-6	trans-1,3-Dichloropropene	1220	U
79-00-5	1,1,2-Trichloroethane	1220	U
75-25-2	Bromoform	1220	U
108-10-1	4-Methyl-2-pentanone	2440	U
591-78-6	2-Hexanone	2440	U
79-34-5	1,1,2,2-Tetrachloroethane	1220	U
127-18-4	Tetrachloroethene	1220	U
108-88-3	Toluene	1220	U
108-90-7	Chlorobenzene	1220	U
100-41-4	Ethylbenzene	1220	U
100-42-5	Styrene	1220	U
133-02-7	m-Xylene	1220	U
108-38-3	o,p-Xylene	1220	U

00050

PESTICIDE ORGANICS DATA RESULT FORM

Client ID: 910415-145

Date Collected: 4/15/91

EnviroTest Lab No: 97217-014

Date Received: 4/16/91

Client Name: ESE

Date Extracted: 4/22/91

Project Name: Raybestos

Date Analyzed: 5/3/91

% Solid: 40.8

Report Date: 5/14/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg
319-84-6	alpha-BHC	200	U
319-85-7	beta-BHC	200	U
319-86-8	delta-BHC	200	U
58-89-9	gamma-BHC(Lindane)	200	U
76-44-8	Heptachlor	200	U
309-00-2	Aldrin	200	U
1024-57-3	Heptachlor epoxide	200	U
959-98-8	Endosulfan I	200	U
60-57-1	Dieldrin	410	U
72-55-9	4,4'-DDE	410	U
72-20-8	Endrin	410	U
33213-65-9	Endosulfan II	410	U
72-54-8	4,4'-DDD	410	U
1031-07-8	Endosulfan sulfate	410	U
50-29-3	4,4'-DDT	410	U
72-43-5	Methoxychlor	2000	U
7421-93-4	Endrin aldehyde	410	U
5103-71-9	alpha-Chlordane	2000	U
5103-74-2	gamma-Chlordane	2000	U
8001-35-2	Toxaphene	4100	U
12674-11-2	Arochlor-1016	2000	U
11104-28-2	Arochlor-1221	2000	U
11141-16-5	Arochlor-1232	2000	U
53469-21-9	Arochlor-1242	2000	U
12672-29-6	Arochlor-1248	2000	U
11097-69-1	Arochlor-1254	4100	U
11096-82-5	Arochlor-1260	4100	U
37324-23-5	Arochlor-1262	4100	27,900
11100-14-4	Arochlor-1268	4100	150,000

SEMIVOLATILE ORGANICS DATA RESULT FORM

Client ID: 910415-145

Date Collected: 4-15-91

EnviroTest Lab No: 98217-014

Date Received: 4-16-91

Client Name: ESE, Inc.

Date Extracted: 4-22-91

Project Name: Raybestos

Date Analyzed: 5-8-91

% Solid: 40.8

Report Date: 5-21-91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg	CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug
108-95-2	Phenol	8200	U	606-20-2	2,6-Dinitrotoluene	8200	U
111-44-4	bis(-2-Chloroethyl)Ether	8200	U	99-09-2	3-Nitroaniline	41000	U
95-57-8	2-Chlorophenol	8200	U	83-32-9	Acenaphthene	8200	U
541-73-1	1,3-Dichlorobenzene	8200	U	51-28-5	2,4-Dinitrophenol	41000	U
106-46-7	1,4-Dichlorobenzene	8200	U	100-02-7	4-Nitrophenol	41000	U
100-51-6	Benzyl alcohol	8200	U	132-64-9	Dibenzofuran	8200	U
95-50-1	1,2-Dichlorobenzene	8200	U	121-14-2	2,4-Dinitrotoluene	8200	U
-7	2-Methylphenol	8200	U	84-66-2	Diethylphthalate	8200	U
50-1	bis(2-chloroisopropyl)ether	8200	U	7005-72-3	4-Chlorophenyl-phenyl ether	8200	U
106-44-5	4-Methylphenol	8200	5300J	86-73-7	Fluorene	8200	U
621-64-7	N-Nitroso-Di-n-propylamine	8200	U	534-52-1	4,6-Dinitro-2-methylphenol	41000	U
67-72-1	Hexachloroethane	8200	U	86-30-6	N-Nitrosodiphenylamine *	8200	5
98-95-3	Nitrobenzene	8200	U	101-55-3	4-Bromophenyl-phenyl ether	8200	U
78-59-1	Isophorone	8200	U	118-74-1	Hexachlorobenzene	8200	U
88-75-5	2-Nitrophenol	8200	U	87-86-5	Pentachlorophenol	41000	U
105-67-9	2,4-Dimethylphenol	8200	9500	85-01-8	Phenanthrene	8200	5
65-85-0	Benzoic acid	41000	U	120-12-7	Anthracene	8200	U
111-91-1	bis(-2-Chloroethoxy)methane	8200	U	84-74-2	Di-n-butylphthalate	8200	U
120-83-2	2,4-Dichlorophenol	8200	U	206-44-0	Fluoranthene	8200	5
120-82-1	1,2,4-Trichlorobenzene	8200	U	129-00-0	Pyrene	8200	U
91-20-3	Naphthalene	8200	14000	85-68-7	Butylbenzylphthalate	8200	U
106-47-8	4-Chloroaniline	8200	U	91-94-1	3,3'-Dichlorobenzidine	16400	U
87-68-3	Hexachlorobutadiene	8200	U	56-55-3	Benzo(a)anthracene	8200	U
59-50-7	4-Chloro-3-methylphenol	8200	U	218-01-9	Chrysene	8200	U
91-57-6	2-Methylnaphthalene	8200	U	117-81-7	bis(2-Fthylhexyl)phthalate	8200	U
77-47-4	Hexachlorocyclopentadiene	8200	U	117-84-0	Di-n-octylphthalate	8200	U
88-06-2	2,4,6-Trichlorophenol	8200	U	205-99-2	Benzo(b)fluoranthene	8200	U
95-95-4	2,4,5-Trichlorophenol	41000	U	207-08-9	Benzo(k)fluoranthene	8200	U
91-58-7	2-Chloronaphthalene	8200	U	50-32-8	Benzo(a)pyrene	8200	U
88-74-4	2-Nitroaniline	41000	U	193-39-5	Indeno(1,2,3-cd)pyrene	8200	U
131-11-3	Dimethylphthalate	8200	U	53-70-3	Dibenzo(a,h)anthracene	8200	U
208-96-8	Acenaphthylene	8200	U	191-24-2	Benzo(g,h,i)perylene	8200	U
				100-01-6	4-Nitroaniline	41000	U

* Cannot be separated from diphenylamine

00052

ORGANICS DATA RESULT FORM
TENTATIVELY IDENTIFIED COMPOUNDS

Client ID: 910415-145

Date Collected: 4-15-91

EnviroTest Lab No: 98217-014

Date Received: 4-16-91

Client Name: ESE, Inc.

Report Date: 5-21-91

Project Name: Raybestos

Matrix: Soil

% Solid: 40.8

CAS NO.	COMPOUND	FRACTION	RT or SCAN NUMBER	ESTIMATED CONCENTRATION (ug/kg)
67630	2-Propanol	VOA	9.53	14800
1072055	2,6-Dimethyl heptane	BNA	5.18	11500
3726474	1-Ethyl-3-methyl cyclopentane	BNA	6.91	13100
103651	Propyl benzene	BNA	7.31	11500
	Unknown	BNA	7.43	20500
4926903	1-Ethyl-1-methyl cyclohexane	BNA	7.90	13100
622968	1-Ethyl--4-methyl benzene	BNA	8.10	15600
124185	Decane	BNA	8.14	14700
95636	1,2,4-Trimethyl benzene	BNA	8.69	26200
1678939	Butyl cyclohexane	BNA	8.85	22900
	Unknown	BNA	9.15	21300
13151354	5-Methyl decane	BNA	9.27	12300
7154805	3,3,5-Trimethyl heptane	BNA	9.33	13900
	Unknown	BNA	9.40	32000
527844	1-Methyl-2-(1-Methyl ethyl)benzene	BNA	9.77	20500
767588	2,3-Dihydro-1-methyl-1H-Indene	BNA	9.96	18000
629505	Tridecane	BNA	10.10	24600
	1-Ethyl dimethyl benzene isomer	BNA	10.50	22900
2958761	Decahydro-2-methyl naphthalene	BNA	10.83	13900
	Unknown	BNA	11.18	13100
934747	1-Ethyl-3,5-dimethyl benzene	BNA	11.25	18800
70553	4-Methyl benzenesulfonamide	BNA	20.09	59800

00053

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910415-146
Lab #98217-015

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-146

Date Collected: 4/15/91

EnviroTest Lab No: 98217-015

Date Received: 4/16/91

Client Name: ESE

Date Extracted: 4/16/91

Project Name: Raybestos

Date Analyzed: 4/17/91

% Solid: 34.9

Report Date: 4/18/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	8.3	U
11104-28-2	Arochlor-1221	8.3	U
11141-16-5	Arochlor-1232	8.3	U
53469-21-9	Arochlor-1242	8.3	U
12672-29-6	Arochlor-1248	8.3	U
11097-69-1	Arochlor-1254	8.3	U
11096-82-5	Arochlor-1260	8.3	U
37324-23-5	Arochlor-1262	8.3	8.5
11100-14-4	Arochlor-1268	8.3	9.1

00055

ESE, Inc.
Shelton, CT

Raybestos

Client ID:910415-147
Lab #98217-017

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-147

Date Collected: 4/15/91

EnviroTest Lab No: 98217-017

Date Received: 4/16/91

Client Name: ESE

Date Extracted: 4/16/91

Project Name: Raybestos

Date Analyzed: 4/17/91

% Solid: 67.7

Report Date: 4/18/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	2.8	U
11104-28-2	Arochlor-1221	2.8	U
11141-16-5	Arochlor-1232	2.8	U
53469-21-9	Arochlor-1242	2.8	U
12672-29-6	Arochlor-1248	2.8	U
11097-69-1	Arochlor-1254	2.8	U
11096-82-5	Arochlor-1260	2.8	U
37324-23-5	Arochlor-1262	2.8	1.2J
11100-14-4	Arochlor-1268	2.8	1.3J

00057

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910415-148
Lab #98217-019

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-148

Date Collected: 4/15/91

EnviroTest Lab No: 98217-019

Date Received: 4/16/91

Client Name: ESE

Date Extracted: 4/16/91

Project Name: Raybestos

Date Analyzed: 4/17/91

% Solid: 50.9

Report Date: 4/18/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	5.0	U
11104-28-2	Arochlor-1221	5.0	U
11141-16-5	Arochlor-1232	5.0	U
53469-21-9	Arochlor-1242	5.0	U
12672-29-6	Arochlor-1248	5.0	U
11097-69-1	Arochlor-1254	5.0	U
11096-82-5	Arochlor-1260	5.0	U
37324-23-5	Arochlor-1262	5.0	2.7J
11100-14-4	Arochlor-1268	5.0	3.6J

ESE, Inc.
Shelton, CT

Raybestos

Client ID:910415-149
Lab #98217-021

Matrix: Soil

00060

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-149

Date Collected: 4/15/91

EnviroTest Lab No: 98217-021

Date Received: 4/16/91

Client Name: ESE

Date Extracted: 4/16/91

Project Name: Raybestos

Date Analyzed: 4/17/91

% Solid: 72.4

Report Date: 4/18/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	3.9	U
11104-28-2	Arochlor-1221	3.9	U
11141-16-5	Arochlor-1232	3.9	U
53469-21-9	Arochlor-1242	3.9	U
12672-29-6	Arochlor-1248	3.9	U
11097-69-1	Arochlor-1254	3.9	U
11096-82-5	Arochlor-1260	3.9	U
37324-23-5	Arochlor-1262	3.9	U
11100-14-4	Arochlor-1268	3.9	U

00061

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910415-150
Lab #98217-023

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-150

Date Collected: 4/15/91

EnviroTest Lab No: 98217-023

Date Received: 4/16/91

Client Name: ESE

Date Extracted: 4/16/91

Project Name: Raybestos

Date Analyzed: 4/17/91

% Solid: 88.9

Report Date: 4/18/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	7.2	U
11104-28-2	Arochlor-1221	7.2	U
11141-16-5	Arochlor-1232	7.2	U
53469-21-9	Arochlor-1242	7.2	U
12672-29-6	Arochlor-1248	7.2	U
11097-69-1	Arochlor-1254	7.2	U
11096-82-5	Arochlor-1260	7.2	U
37324-23-5	Arochlor-1262	7.2	U
11100-14-4	Arochlor-1268	7.2	U

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910415-151
Lab #98217-025

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-151

Date Collected: 4/15/91

EnviroTest Lab No: 98217-025

Date Received: 4/16/91

Client Name: ESE

Date Extracted: 4/16/91

Project Name: Raybestos

Date Analyzed: 4/17/91

% Solid: 93.5

Report Date: 4/18/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	15	U
11104-28-2	Arochlor-1221	15	U
11141-16-5	Arochlor-1232	15	U
53469-21-9	Arochlor-1242	15	U
12672-29-6	Arochlor-1248	15	U
11097-69-1	Arochlor-1254	15	U
11096-82-5	Arochlor-1260	15	U
37324-23-5	Arochlor-1262	15	U
11100-14-4	Arochlor-1268	15	U

00065

ESE, Inc.
Shelton, CT

Raybestos

Client ID:910415-152
Lab #98217-027

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-152

Date Collected: 4/15/91

EnviroTest Lab No: 98217-027

Date Received: 4/16/91

Client Name: ESE

Date Extracted: 4/16/91

Project Name: Raybestos

Date Analyzed: 4/17/91

% Solid: 94.9

Report Date: 4/18/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	3.0	U
11104-28-2	Arochlor-1221	3.0	U
11141-16-5	Arochlor-1232	3.0	U
53469-21-9	Arochlor-1242	3.0	U
12672-29-6	Arochlor-1248	3.0	U
11097-69-1	Arochlor-1254	3.0	U
11096-82-5	Arochlor-1260	3.0	U
37324-23-5	Arochlor-1262	3.0	U
11100-14-4	Arochlor-1268	3.0	U

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910415-153
Lab # 98217-029

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-153

Date Collected: 4/15/91

EnviroTest Lab No: 98217-029

Date Received: 4/16/91

Client Name: ESE

Date Extracted: 4/16/91

Project Name: Raybestos

Date Analyzed: 4/17/91

% Solid: 77.3

Report Date: 4/18/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	4.0	U
11104-28-2	Arochlor-1221	4.0	U
11141-16-5	Arochlor-1232	4.0	U
53469-21-9	Arochlor-1242	4.0	U
12672-29-6	Arochlor-1248	4.0	U
11097-69-1	Arochlor-1254	4.0	U
11096-82-5	Arochlor-1260	4.0	U
37324-23-5	Arochlor-1262	4.0	11
11100-14-4	Arochlor-1268	4.0	9.3

00069

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910415-153
Lab #98217-030

Matrix: Soil

VOLATILE ORGANICS DATA RESULTS FORM

Client ID: 910415-153

Date Collected: 4/15/91

EnviroTest Lab No: 98217-030

Date Received: 4/16/91

Client Name: ESE

Date Analyzed: 4/23/91

Project Name: Raybestos

Report Date: 5/14/91

% Solid: 77.3

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene chloride	6.5	U
67-64-1	Acetone	13	12J
75-15-0	Carbon disulfide	6.5	U
75-35-4	1,1-Dichloroethene	6.5	U
75-34-3	1,1-Dichloroethane	6.5	U
540-59-0	1,2-Dichloroethene, total	6.5	U
67-66-3	Chloroform	6.5	U
107-02-2	1,2-Dichloroethane	6.5	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	6.5	U
56-23-5	Carbon tetrachloride	6.5	U
108-05-4	Vinyl acetate	13	U
75-27-4	Bromodichloromethane	6.5	U
78-87-5	1,2-Dichloropropane	6.5	U
10061-01-5	cis-1,3-Dichloropropene	6.5	U
79-01-6	Trichloroethene	6.5	U
71-43-2	Benzene	6.5	U
124-48-1	Dibromochloromethane	6.5	U
10061-02-6	trans-1,3-Dichloropropene	6.5	U
79-00-5	1,1,2-Trichloroethane	6.5	U
75-25-2	Bromoform	6.5	U
108-10-1	4-Methyl-2-pentanone	13	U
591-78-6	2-Hexanone	13	U
79-34-5	1,1,2,2-Tetrachloroethane	6.5	U
127-18-4	Tetrachloroethene	6.5	U
108-88-3	Toluene	6.5	2J
108-90-7	Chlorobenzene	6.5	U
100-41-4	Ethylbenzene	6.5	U
100-42-5	Styrene	6.5	U
133-02-7	m-Xylene	6.5	U
108-38-3	o,p-Xylene	6.5	U

PESTICIDE ORGANICS DATA RESULT FORM

Client ID: 910415-153

Date Collected: 4/15/91

EnviroTest Lab No: 97217-030

Date Received: 4/16/91

Client Name: ESE

Date Extracted: 4/22/91

Project Name: Raybestos

Date Analyzed: 5/3/91

% Solid: 77.3

Report Date: 5/14/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg
319-84-6	alpha-BHC	110	U
319-85-7	beta-BHC	110	U
319-86-8	delta-BHC	110	U
58-89-9	gamma-BHC(Lindane)	110	U
76-44-8	Heptachlor	110	U
309-00-2	Aldrin	110	U
1024-57-3	Heptachlor epoxide	110	U
959-98-8	Endosulfan I	110	U
60-57-1	Dieldrin	220	U
72-55-9	4,4'-DDE	220	U
72-20-8	Endrin	220	U
33213-65-9	Endosulfan II	220	U
72-54-8	4,4'-DDD	220	U
1031-07-8	Endosulfan sulfate	220	U
50-29-3	4,4'-DDT	220	U
72-43-5	Methoxychlor	1100	U
7421-93-4	Endrin aldehyde	220	U
5103-71-9	alpha-Chlordane	1100	U
5103-74-2	gamma-Chlordane	1100	U
8001-35-2	Toxaphene	2200	U
12674-11-2	Arochlor-1016	1100	U
11104-28-2	Arochlor-1221	1100	U
11141-16-5	Arochlor-1232	1100	U
53469-21-9	Arochlor-1242	1100	U
12672-29-6	Arochlor-1248	1100	U
11097-69-1	Arochlor-1254	2200	U
11096-82-5	Arochlor-1260	2200	U
37324-23-5	Arochlor-1262	2200	22,400
11100-14-4	Arochlor-1268	2200	65,100

SEMIVOLATILE ORGANICS DATA RESULT FORM

Client ID: 910415-153

Date Collected: 4-15-91

EnviroTest Lab No: 98217-030

Date Received: 4-16-91

Client Name: ESE, Inc.

Date Extracted: 4-22-91

Project Name: Raybestos

Date Analyzed: 5-8-91

% Solid: 77.3

Report Date: 5-21-91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg	CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg
108-95-2	Phenol	2200	U	606-20-2	2,6-Dinitrotoluene	2200	U
111-44-4	bis(-2-Chloroethyl)Ether	2200	U	99-09-2	3-Nitroaniline	11000	U
95-57-8	2-Chlorophenol	2200	U	83-32-9	Acenaphthene	2200	U
541-73-1	1,3-Dichlorobenzene	2200	U	51-28-5	2,4-Dinitrophenol	11000	U
106-46-7	1,4-Dichlorobenzene	2200	U	100-02-7	4-Nitrophenol	11000	U
100-51-6	Benzyl alcohol	2200	U	132-64-9	Dibenzofuran	2200	U
95-50-1	1,2-Dichlorobenzene	2200	U	121-14-2	2,4-Dinitrotoluene	2200	U
107-07-7	2-Methylphenol	2200	U	84-66-2	Diethylphthalate	2200	U
100-01-0	bis(2-chloroisopropyl)ether	2200	U	7005-72-3	4-Chlorophenyl-phenyl ether	2200	U
106-44-5	4-Methylphenol	2200	U	86-73-7	Fluorene	2200	U
621-64-7	N-Nitroso-Di-n-propylamine	2200	U	534-52-1	4,6-Dinitro-2-methylphenol	11000	U
67-72-1	Hexachloroethane	2200	U	86-30-6	N-Nitrosodiphenylamine *	2200	U
98-95-3	Nitrobenzene	2200	U	101-55-3	4-Bromophenyl-phenyl ether	2200	U
78-59-1	Isophorone	2200	U	118-74-1	Hexachlorobenzene	2200	U
88-75-5	2-Nitrophenol	2200	U	87-86-5	Pentachlorophenol	11000	U
105-67-9	2,4-Dimethylphenol	2200	U	85-01-8	Phenanthrene	2200	U
65-85-0	Benzoic acid	11000	U	120-12-7	Anthracene	2200	U
111-91-1	bis(-2-Chloroethoxy)methane	2200	U	84-74-2	Di-n-butylphthalate	2200	U
120-83-2	2,4-Dichlorophenol	2200	U	206-44-0	Fluoranthene	2200	U
120-82-1	1,2,4-Trichlorobenzene	2200	U	129-00-0	Pyrene	2200	U
91-20-3	Naphthalene	2200	U	85-68-7	Butylbenzylphthalate	2200	U
106-47-8	4-Chloroaniline	2200	U	91-94-1	3,3'-Dichlorobenzidine	4400	U
87-68-3	Hexachlorobutadiene	2200	U	56-55-3	Benzo(a)anthracene	2200	U
59-50-7	4-Chloro-3-methylphenol	2200	U	218-01-9	Chrysene	2200	U
91-57-6	2-Methylnaphthalene	2200	U	117-81-7	bis(2-Ethylhexyl)phthalate	2200	U
77-47-4	Hexachlorocyclopentadiene	2200	U	117-84-0	Di-n-octylphthalate	2200	U
88-06-2	2,4,6-Trichlorophenol	2200	U	205-99-2	Benzo(b)fluoranthene	2200	U
95-95-4	2,4,5-Trichlorophenol	11000	U	207-08-9	Benzo(k)fluoranthene	2200	U
91-58-7	2-Chloronaphthalene	2200	U	50-32-8	Benzo(a)pyrene	2200	U
88-74-4	2-Nitroaniline	11000	U	193-39-5	Indeno(1,2,3-cd)pyrene	2200	U
131-11-3	Dimethylphthalate	2200	U	53-70-3	Dibenzo(a,h)anthracene	2200	U
208-96-8	Acenaphthylene	2200	U	191-24-2	Benzo(g,h,i)perylene	2200	U
				100-01-6	4-Nitroaniline	11000	U

* Cannot be separated from diphenylamine

SEMIVOLATILE ORGANICS DATA RESULT FORM

Client ID: 910415-153

Date Collected: 4-15-91

EnviroTest Lab No: 98217-030RR

Date Received: 4-16-91

Client Name: ESE, Inc.

Date Extracted: 4-22-91

Project Name: Raybestos

Date Analyzed: 5-8-91

% Solid: 77.3

Report Date: 5-21-91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg	CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/
108-95-2	Phenol	2200	U	606-20-2	2,6-Dinitrotoluene	2200	U
111-44-4	bis(-2-Chloroethyl)Ether	2200	U	99-09-2	3-Nitroaniline	11000	U
95-57-8	2-Chlorophenol	2200	U	83-32-9	Acenaphthene	2200	U
541-73-1	1,3-Dichlorobenzene	2200	U	51-28-5	2,4-Dinitrophenol	11000	U
106-46-7	1,4-Dichlorobenzene	2200	U	100-02-7	4-Nitrophenol	11000	U
100-51-6	Benzyl alcohol	2200	U	132-64-9	Dibenzofuran	2200	U
95-50-1	1,2-Dichlorobenzene	2200	U	121-14-2	2,4-Dinitrotoluene	2200	U
7-7	2-Methylphenol	2200	U	84-66-2	Diethylphthalate	2200	U
10-1	bis(2-chloroisopropyl)ether	2200	U	7005-72-3	4-Chlorophenyl-phenyl ether	2200	U
100-44-5	4-Methylphenol	2200	U	86-73-7	Fluorene	2200	U
621-64-7	N-Nitroso-Di-n-propylamine	2200	U	534-52-1	4,6-Dinitro-2-methylphenol	11000	U
67-72-1	Hexachloroethane	2200	U	86-30-6	N-Nitrosodiphenylamine *	2200	U
98-95-3	Nitrobenzene	2200	U	101-55-3	4-Bromophenyl-phenyl ether	2200	U
78-59-1	Isophorone	2200	U	118-74-1	Hexachlorobenzene	2200	U
88-75-5	2-Nitrophenol	2200	U	87-86-5	Pentachlorophenol	11000	U
105-67-9	2,4-Dimethylphenol	2200	U	85-01-8	Phenanthrene	2200	U
65-85-0	Benzoic acid	11000	U	120-12-7	Anthracene	2200	U
111-91-1	bis(-2-Chloroethoxy)methane	2200	U	84-74-2	Di-n-butylphthalate	2200	U
120-83-2	2,4-Dichlorophenol	2200	U	206-44-0	Fluoranthene	2200	U
120-82-1	1,2,4-Trichlorobenzene	2200	U	129-00-0	Pyrene	2200	U
91-20-3	Naphthalene	2200	U	85-68-7	Butylbenzylphthalate	2200	U
106-47-8	4-Chloroaniline	2200	U	91-94-1	3,3'-Dichlorobenzidine	4400	U
87-68-3	Hexachlorobutadiene	2200	U	56-55-3	Benzo(a)anthracene	2200	U
59-50-7	4-Chloro-3-methylphenol	2200	U	218-01-9	Chrysene	2200	U
91-57-6	2-Methylnaphthalene	2200	U	117-81-7	bis(2-Ethylhexyl)phthalate	2200	U
77-47-4	Hexachlorocyclopentadiene	2200	U	117-84-0	Di-n-octylphthalate	2200	U
88-06-2	2,4,6-Trichlorophenol	2200	U	205-99-2	Benzo(b)fluoranthene	2200	U
95-95-4	2,4,5-Trichlorophenol	11000	U	207-08-9	Benzo(k)fluoranthene	2200	U
91-58-7	2-Chloronaphthalene	2200	U	50-32-8	Benzo(a)pyrene	2200	U
88-74-4	2-Nitroaniline	11000	U	193-39-5	Indeno(1,2,3-cd)pyrene	2200	U
131-11-3	Dimethylphthalate	2200	U	53-70-3	Dibenzo(a,h)anthracene	2200	U
208-96-8	Acenaphthylene	2200	U	191-24-2	Benzo(g,h,i)perylene	2200	U
				100-01-6	4-Nitroaniline	11000	U

* Cannot be separated from diphenylamine

ORGANICS DATA RESULT FORM
TENTATIVELY IDENTIFIED COMPOUNDS

Client ID: 910415-153

Date Collected: 4-15-91

EnviroTest Lab No: 98217-030

Date Received: 4-16-91

Client Name: ESE, Inc.

Report Date: 5-21-91

Project Name: Raybestos

Matrix: Soil

% Solid: 77.3

CAS NO.	COMPOUND	FRACTION	RT or SCAN NUMBER	ESTIMATED CONCENTRATION (ug/kg)
71238	Unknown	VOA	9.43	13
	1-Propanol	VOA	11.10	56
1074891	C8H16 Isomer	BNA	5.32	2800
2467030	6-Methoxy-1H-Purine	BNA	12.96	1290
	2-((4-hydroxyphenyl) methyl)phenol	BNA	24.66	1720
	Heptachloro biphenyl isomer	BNA	29.57	8620
	Heptachloro biphenyl isomer	BNA	30.78	3450
	Octachloro biphenyl isomer	BNA	31.68	12300
52663782	2,2',3,3',4,4',5,6-Octachloro-1-1'-biphenyl	BNA	31.81	9480
	Octachloro biphenyl isomer	BNA	32.92	1510
	Unknown	BNA	33.79	3230

ORGANICS DATA RESULT FORM
TENTATIVELY IDENTIFIED COMPOUNDS

Client ID: 910415-153

Date Collected: 4-15-91

EnviroTest Lab No: 98217-030RR

Date Received: 4-16-91

Client Name: ESE, Inc.

Report Date: 5-21-91

Project Name: Raybestos

Matrix: Soil

* Solid: 77.3

CAS NO.	COMPOUND	FRACTION	RT or SCAN NUMBER	ESTIMATED CONCENTRATION (ug/kg)
1678917	Ethyl cyclohexane	BNA	5.29	2800
	Unknown	BNA	12.91	1290
2467030	2-((4-Hydroxyphenyl)methyl)benzene	BNA	24.60	1940
	Heptachloro biphenyl isomer	BNA	29.52	8620
60145235	2,2',3,4,4',5,6'-Heptachloro-1,1', biphenyl	BNA	30.72	3880
	Octachloro biphenyl isomer	BNA	31.62	12100
	Octachloro biphenyl isomer	BNA	31.74	10100
42740501	2,2'3,3',4,4',5,6'-Octachloro-1,1'biphenyl	BNA	32.87	1940
	Unknown	BNA	33.74	3660

00076

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910415-154
Lab #98217-031

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-154

Date Collected: 4/15/91

EnviroTest Lab No: 98217-031

Date Received: 4/16/91

Client Name: ESE

Date Extracted: 4/16/91

Project Name: Raybestos

Date Analyzed: 4/17/91

% Solid: 60.8

Report Date: 4/18/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	4.4	U
11104-28-2	Arochlor-1221	4.4	U
11141-16-5	Arochlor-1232	4.4	U
53469-21-9	Arochlor-1242	4.4	U
12672-29-6	Arochlor-1248	4.4	U
11097-69-1	Arochlor-1254	4.4	U
11096-82-5	Arochlor-1260	4.4	U
37324-23-5	Arochlor-1262	4.4	10
11100-14-4	Arochlor-1268	4.4	8.5

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ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910415-155
Lab #98217-033

Matrix: Soil

PCB ORGANICS ANALYSIS DATA SHEET

Client ID: 910415-155

Date Collected: 4/15/91

EnviroTest Lab. No: 98217-033

Date Received: 4/16/91

Client Name: ESE

Date Extracted: 4/16/91

Project Name: Raybestos

Date Analyzed: 4/16/91

% Solid: 63.1

Report Date: 5/22/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	3.7	U
11104-28-2	Arochlor-1221	3.7	U
11141-16-5	Arochlor-1232	3.7	U
53469-21-9	Arochlor-1242	3.7	U
12672-29-6	Arochlor-1248	3.7	U
11097-69-1	Arochlor-1254	3.7	U
11096-82-5	Arochlor-1260	3.7	U
37324-23-5	Arochlor-1262	3.7	2.0J
11100-14-4	Arochlor-1268	3.7	2.0J

00080

ESE, Inc.
Shelton, CT

Raybestos

Client ID:910415-156
Lab #98217-035

Matrix: Soil

PCB ORGANICS ANALYSIS DATA SHEET

Client ID: 910415-156

Date Collected: 4/15/91

EnviroTest Lab. No: 98217-035

Date Received: 4/16/91

Client Name: ESE

Date Extracted: 4/16/91

Project Name: Raybestos

Date Analyzed: 4/16/91

% Solid: 60.3

Report Date: 5/22/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	4.0	U
11104-28-2	Arochlor-1221	4.0	U
11141-16-5	Arochlor-1232	4.0	U
53469-21-9	Arochlor-1242	4.0	U
12672-29-6	Arochlor-1248	4.0	U
11097-69-1	Arochlor-1254	4.0	U
11096-82-5	Arochlor-1260	4.0	U
37324-23-5	Arochlor-1262	4.0	U
11100-14-4	Arochlor-1268	4.0	U

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910415-157
Lab #98217-037

Matrix: Soil

00083

PCB ORGANICS ANALYSIS DATA SHEET

Client ID: 910415-157

Date Collected: 4/15/91

EnviroTest Lab. No: 98217-037

Date Received: 4/16/91

Client Name: ESE

Date Extracted: 4/16/91

Project Name: Raybestos

Date Analyzed: 4/16/91

% Solid: 69.8

Report Date: 5/22/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	3.4	U
11104-28-2	Arochlor-1221	3.4	U
11141-16-5	Arochlor-1232	3.4	U
53469-21-9	Arochlor-1242	3.4	U
12672-29-6	Arochlor-1248	3.4	U
11097-69-1	Arochlor-1254	3.4	U
11096-82-5	Arochlor-1260	3.4	U
37324-23-5	Arochlor-1262	3.4	U
11100-14-4	Arochlor-1268	3.4	U

ESE, Inc.
Shelton, CT

Raybestos

Client ID:910415-158
Lab #98217-039

Matrix: Soil

PCB ORGANICS ANALYSIS DATA SHEET

Client ID: 910415-158

Date Collected: 4/15/91

EnviroTest Lab. No: 98217-039

Date Received: 4/16/91

Client Name: ESE

Date Extracted: 4/16/91

Project Name: Raybestos

Date Analyzed: 4/16/91

% Solid: 95.2

Report Date: 5/22/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	2.4	U
11104-28-2	Arochlor-1221	2.4	U
11141-16-5	Arochlor-1232	2.4	U
53469-21-9	Arochlor-1242	2.4	U
12672-29-6	Arochlor-1248	2.4	U
11097-69-1	Arochlor-1254	2.4	U
11096-82-5	Arochlor-1260	2.4	U
37324-23-5	Arochlor-1262	2.4	U
11100-14-4	Arochlor-1268	2.4	U

ESE, Inc.
Shelton, CT

Raybestos Memorial Field

Client ID: 910415-159
Lab #: 98272-001

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-159

Date Collected: 4/16/91

EnviroTest Lab No: 98272-001

Date Received: 4/17/91

Client Name: ESE

Date Extracted: 4/17/91

Project Name: Raybestos

Date Analyzed: 4/17/91

% Solid: 92.1

Report Date: 5/13/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	2.7	U
11104-28-2	Arochlor-1221	2.7	U
11141-16-5	Arochlor-1232	2.7	U
53469-21-9	Arochlor-1242	2.7	U
12672-29-6	Arochlor-1248	2.7	U
11097-69-1	Arochlor-1254	2.7	U
11096-82-5	Arochlor-1260	2.7	U
37324-23-5	Arochlor-1262	2.7	U
11100-14-4	Arochlor-1268	2.7	U

00088

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910415-160
Lab #98272-003

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-160

Date Collected: 4/16/91

EnviroTest Lab No: 98272-003

Date Received: 4/17/91

Client Name: ESE

Date Extracted: 4/17/91

Project Name: Raybestos

Date Analyzed: 4/17/91

% Solid: 82.1

Report Date: 5/13/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	2.9	U
11104-28-2	Arochlor-1221	2.9	U
11141-16-5	Arochlor-1232	2.9	U
53469-21-9	Arochlor-1242	2.9	U
12672-29-6	Arochlor-1248	2.9	U
11097-69-1	Arochlor-1254	2.9	U
11096-82-5	Arochlor-1260	2.9	U
37324-23-5	Arochlor-1262	2.9	5.9
11100-14-4	Arochlor-1268	2.9	3.8

00090

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910415-160
Lab #98272-004

Matrix: Soil

VOLATILE ORGANICS DATA RESULTS FORM

Client ID: 910415-160

Date Collected: 4-16-91

EnviroTest Lab No: 98272-004

Date Received: 4-17-91

Client Name: ESE, Inc.

Date Analyzed: 4-23-91

Project Name: Raybestos

Report Date: 5-21-91

% Solid: 82.1

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg
74-87-3	Chloromethane	12.2	U
74-83-9	Bromomethane	12.2	U
75-01-4	Vinyl chloride	12.2	U
75-00-3	Chloroethane	12.2	U
75-09-2	Methylene chloride	6.1	60
67-64-1	Acetone	12.2	300
75-15-0	Carbon disulfide	6.1	11
75-35-4	1,1-Dichloroethene	6.1	U
75-34-3	1,1-Dichloroethane	6.1	U
540-59-0	1,2-Dichloroethene, total	6.1	U
67-66-3	Chloroform	6.1	2J
107-02-2	1,2-Dichloroethane	6.1	U
78-93-3	2-Butanone	12.2	14
71-55-6	1,1,1-Trichloroethane	6.1	1J
56-23-5	Carbon tetrachloride	6.1	U
108-05-4	Vinyl acetate	12.2	U
75-27-4	Bromodichloromethane	6.1	U
78-87-5	1,2-Dichloropropane	6.1	U
10061-01-5	cis-1,3-Dichloropropene	6.1	U
79-01-6	Trichloroethene	6.1	U
71-43-2	Benzene	6.1	2J
124-48-1	Dibromochloromethane	6.1	U
10061-02-6	trans-1,3-Dichloropropene	6.1	U
79-00-5	1,1,2-Trichloroethane	6.1	U
75-25-2	Bromoform	6.1	U
108-10-1	4-Methyl-2-pentanone	12.2	U
591-78-6	2-Hexanone	12.2	U
79-34-5	1,1,2,2-Tetrachloroethane	6.1	U
127-18-4	Tetrachloroethene	6.1	U
108-88-3	Toluene	6.1	64
108-90-7	Chlorobenzene	6.1	2J
100-41-4	Ethylbenzene	6.1	5J
100-42-5	Styrene	6.1	U
133-02-7	m-Xylene	6.1	12
108-38-3	o,p-Xylene	6.1	14

VOLATILE ORGANICS DATA RESULTS FORM

Client ID: 910415-160

Date Collected: 4-16-91

EnviroTest Lab No: 98272-004RR

Date Received: 4-17-91

Client Name: ESE, Inc.

Date Analyzed: 4-24-91

Project Name: Raybestos

Report Date: 5-21-91

% Solid: 82.1

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg
74-87-3	Chloromethane	12.2	U
74-83-9	Bromomethane	12.2	U
75-01-4	Vinyl chloride	12.2	U
75-00-3	Chloroethane	12.2	U
75-09-2	Methylene chloride	6.1	13
67-64-1	Acetone	12.2	55
75-15-0	Carbon disulfide	6.1	1J
75-35-4	1,1-Dichloroethene	6.1	U
75-34-3	1,1-Dichloroethane	6.1	U
540-59-0	1,2-Dichloroethene, total	6.1	U
67-66-3	Chloroform	6.1	U
107-02-2	1,2-Dichloroethane	6.1	U
78-93-3	2-Butanone	12.2	6.5
71-55-6	1,1,1-Trichloroethane	6.1	U
56-23-5	Carbon tetrachloride	6.1	U
108-05-4	Vinyl acetate	12.2	U
75-27-4	Bromodichloromethane	6.1	U
78-87-5	1,2-Dichloropropane	6.1	U
10061-01-5	cis-1,3-Dichloropropene	6.1	U
79-01-6	Trichloroethene	6.1	U
71-43-2	Benzene	6.1	U
124-48-1	Dibromochloromethane	6.1	U
10061-02-6	trans-1,3-Dichloropropene	6.1	U
79-00-5	1,1,2-Trichloroethane	6.1	U
75-25-2	Bromoform	6.1	U
108-10-1	4-Methyl-2-pentanone	12.2	U
591-78-6	2-Hexanone	12.2	U
79-34-5	1,1,2,2-Tetrachloroethane	6.1	U
127-18-4	Tetrachloroethene	6.1	U
108-88-3	Toluene	6.1	14
108-90-7	Chlorobenzene	6.1	U
100-41-4	Ethylbenzene	6.1	U
100-42-5	Styrene	6.1	U
133-02-7	m-Xylene	6.1	3J
108-38-3	o,p-Xylene	6.1	3J

PESTICIDE ORGANICS DATA RESULT FORM

Client ID: 910415-160

Date Collected: 4/16/91

EnviroTest Lab No: 97272-004

Date Received: 4/17/91

Client Name: ESE

Date Extracted: 4/22/91

Project Name: Raybestos

Date Analyzed: 5/3/91

% Solid: 82.1

Report Date: 5/14/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg
319-84-6	alpha-BHC	100	U
319-85-7	beta-BHC	100	U
319-86-8	delta-BHC	100	U
58-89-9	gamma-BHC(Lindane)	100	U
76-44-8	Heptachlor	100	U
309-00-2	Aldrin	100	U
1024-57-3	Heptachlor epoxide	100	U
959-98-8	Endosulfan I	100	U
60-57-1	Dieldrin	200	U
72-55-9	4,4'-DDE	200	U
72-20-8	Endrin	200	U
33213-65-9	Endosulfan II	200	U
72-54-8	4,4'-DDD	200	U
1031-07-8	Endosulfan sulfate	200	U
50-29-3	4,4'-DDT	200	U
72-43-5	Methoxychlor	1000	U
7421-93-4	Endrin aldehyde	200	U
5103-71-9	alpha-Chlordane	1000	U
5103-74-2	gamma-Chlordane	1000	U
8001-35-2	Toxaphene	2000	U
12674-11-2	Arochlor-1016	1000	U
11104-28-2	Arochlor-1221	1000	U
11141-16-5	Arochlor-1232	1000	U
53469-21-9	Arochlor-1242	1000	U
12672-29-6	Arochlor-1248	1000	U
11097-69-1	Arochlor-1254	2000	U
11096-82-5	Arochlor-1260	2000	U
37324-23-5	Arochlor-1262	2000	11,100
11100-14-4	Arochlor-1268	2000	23,000

SEMIVOLATILE ORGANICS DATA RESULT FORM

Client ID: 910415-160

Date Collected: 4-16-91

EnviroTest Lab No: 98272-004

Date Received: 4-17-91

Client Name: ESE, Inc.

Date Extracted: 4-22-91

Project Name: Raybestos

Date Analyzed: 5-9-91

% Solid: 82.1

Report Date: 5-21-91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg	CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg
108-95-2	Phenol	410	U	606-20-2	2,6-Dinitrotoluene	410	U
111-44-4	bis(-2-Chloroethyl)Ether	410	U	99-09-2	3-Nitroaniline	1250	U
95-57-8	2-Chlorophenol	410	U	83-32-9	Acenaphthene	410	U
541-73-1	1,3-Dichlorobenzene	410	U	51-28-5	2,4-Dinitrophenol	1250	U
106-46-7	1,4-Dichlorobenzene	410	U	100-02-7	4-Nitrophenol	1250	U
100-51-6	Benzyl alcohol	410	U	132-64-9	Dibenzofuran	410	U
95-50-1	1,2-Dichlorobenzene	410	U	121-14-2	2,4-Dinitrotoluene	410	U
7	2-Methylphenol	410	U	84-66-2	Diethylphthalate	410	U
0-1	bis(2-chloroisopropyl)ether	410	U	7005-72-3	4-Chlorophenyl-phenyl ether	410	U
06-44-5	4-Methylphenol	410	U	86-73-7	Fluorene	410	U
621-64-7	N-Nitroso-Di-n-propylamine	410	U	534-52-1	4,6-Dinitro-2-methylphenol	1250	U
67-72-1	Hexachloroethane	410	U	86-30-6	N-Nitrosodiphenylamine *	410	U
98-95-3	Nitrobenzene	410	U	101-55-3	4-Bromophenyl-phenyl ether	410	U
78-59-1	Isophorone	410	U	118-74-1	Hexachlorobenzene	410	U
88-75-5	2-Nitrophenol	410	U	87-86-5	Pentachlorophenol	1250	U
105-67-9	2,4-Dimethylphenol	410	220J	85-01-8	Phenanthrene	410	91
65-85-0	Benzoic acid	2050	U	120-12-7	Anthracene	410	U
111-91-1	bis(-2-Chloroethoxy)methane	410	U	84-74-2	Di-n-butylphthalate	410	U
120-83-2	2,4-Dichlorophenol	410	U	206-44-0	Fluoranthene	410	95
120-82-1	1,2,4-Trichlorobenzene	410	U	129-00-0	Pyrene	410	11
91-20-3	Naphthalene	410	U	85-68-7	Butylbenzylphthalate	410	U
106-47-8	4-Chloroaniline	410	U	91-94-1	3,3'-Dichlorobenzidine	820	U
87-68-3	Hexachlorobutadiene	410	U	56-55-3	Benzo(a)anthracene	410	44
59-50-7	4-Chloro-3-methylphenol	410	U	218-01-9	Chrysene	410	63
91-57-6	2-Methylnaphthalene	410	U	117-81-7	bis(2-Ethylhexyl)phthalate	410	U
77-47-4	Hexachlorocyclopentadiene	410	U	117-84-0	Di-n-octylphthalate	410	U
88-06-2	2,4,6-Trichlorophenol	410	U	205-99-2	Benzo(b)fluoranthene	410	37
95-95-4	2,4,5-Trichlorophenol	1250	U	207-08-9	Benzo(k)fluoranthene	410	36
91-58-7	2-Chloronaphthalene	410	U	50-32-8	Benzo(a)pyrene	410	34
88-74-4	2-Nitroaniline	1250	U	193-39-5	Indeno(1,2,3-cd)pyrene	410	U
131-11-3	Dimethylphthalate	410	U	53-70-3	Dibenzo(a,h)anthracene	410	U
208-96-8	Acenaphthylene	410	U	191-24-2	Benzo(g,h,i)perylene	410	U
				100-01-6	4-Nitroaniline	1250	U

* Cannot be separated from diphenylamine

ORGANICS DATA RESULT FORM
TENTATIVELY IDENTIFIED COMPOUNDS

Client ID: 910415-160

Date Collected: 4-16-91

EnviroTest Lab No: 98272-004

Date Received: 4-17-91

Client Name: ESE, Inc.

Report Date: 5-21-91

Project Name: Raybestos

Matrix: Soil

% Solid: 82.1

CAS NO.	COMPOUND	FRACTION	RT or SCAN NUMBER	ESTIMATED CONCENTRATION (ug/kg)
71238	1-Propanol	VOA	11.01	99
624293	cis-1,4-Dimethyl cyclohexane	BNA	4.89	240
123422	4-Hydroxy-4-methyl-2-Pentanone	BNA	5.30	980
111762	2-Butoxy ethanol	BNA	6.35	410
1569024	1-Ethoxy-2-propanol	BNA	8.4	450
254273	4H-1,3-Benzodioxin	BNA	11.12	200
591311	3-Methoxy benzaldehyde	BNA	11.21	410
18362362	2-Hydroxy-6-methyl benzaldehyde	BNA	11.31	200
18138040	2,3-Diethyl-5-methyl pyrazine	BNA	12.93	1260
294622	Cyclododecane	BNA	16.84	280
883932	2-Phenyl benzothiazole	BNA	24.62	3090
620928	4,4'-Methylenebis phenol	BNA	25.45	930
483658	1-Methyl-7-(1-methyl ethyl)phenanthrene	BNA	27.57	1020
26601649	Hexachloro-1-1'-biphenyl	BNA	28.45	610
69782918	2,3,3',4',5,5'6-Heptachloro-1,1'-biphenyl	BNA	28.84	930
60145235	2,2',3,4,4',5,6'-Heptachloro-1,1'-biphenyl	BNA	29.54	3290
	Heptachloro biphenyl isomer	BNA	30.10	890

TENTATIVELY IDENTIFIED COMPOUNDS cont'd

35065293	2,2',3,4,4',5,5'- Heptachloro-1,1'- biphenyl	BNA	30.75	2320
	Octachloro biphenyl isomer	BNA	31.65	3700
52663782	2,2',3,3',4,4',5,6- Octachloro-1,1'- biphenyl	BNA	31.78	3210
	Unknown	BNA	32.43	810
52663782	2,2',3,3',4,4',5,6- Octachloro-1,1'- biphenyl	BNA	32.90	1460
74472494	2,2',3,4,5,6,6'- Heptachloro-1-1'- biphenyl	BNA	33.75	1630

ORGANICS DATA RESULT FORM
TENTATIVELY IDENTIFIED COMPOUNDS

Client ID: 910415-160

Date Collected: 4-16-91

EnviroTest Lab No: 98272-004RR

Date Received: 4-17-91

Client Name: ESE, Inc.

Report Date: 5-21-91

Project Name: Raybestos

Matrix: Soil

% Solid: 82.1

CAS NO.	COMPOUND	FRACTION	RT or SCAN NUMBER	ESTIMATED CONCENTRATION (ug/kg)
71238	1-Propanol	VOA	10.89	23

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910415-161
Lab #98272-005

Matrix: Soil

00099

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-161

Date Collected: 4/16/91

EnviroTest Lab No: 98272-005

Date Received: 4/17/91

Client Name: ESE

Date Extracted: 4/17/91

Project Name: Raybestos

Date Analyzed: 4/17/91

% Solid: 66.9

Report Date: 5/13/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	3.4	U
11104-28-2	Arochlor-1221	3.4	U
11141-16-5	Arochlor-1232	3.4	U
53469-21-9	Arochlor-1242	3.4	U
12672-29-6	Arochlor-1248	3.4	U
11097-69-1	Arochlor-1254	3.4	U
11096-82-5	Arochlor-1260	3.4	U
37324-23-5	Arochlor-1262	3.4	U
11100-14-4	Arochlor-1268	3.4	U

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910416-162
Lab #98272-007

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-162

Date Collected: 4/16/91

EnviroTest Lab No: 98272-007

Date Received: 4/17/91

Client Name: ESE

Date Extracted: 4/17/91

Project Name: Raybestos

Date Analyzed: 4/17/91

% Solid: 51.7

Report Date: 5/13/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	4.8	U
11104-28-2	Arochlor-1221	4.8	U
11141-16-5	Arochlor-1232	4.8	U
53469-21-9	Arochlor-1242	4.8	U
12672-29-6	Arochlor-1248	4.8	U
11097-69-1	Arochlor-1254	4.8	U
11096-82-5	Arochlor-1260	4.8	U
37324-23-5	Arochlor-1262	4.8	U
11100-14-4	Arochlor-1268	4.8	U

00102

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910416-163
Lab #98272-009

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-163

Date Collected: 4/16/91

EnviroTest Lab No: 98272-009

Date Received: 4/17/91

Client Name: ESE

Date Extracted: 4/17/91

Project Name: Raybestos

Date Analyzed: 4/18/91

% Solid: 28.3

Report Date: 5/13/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	8.7	U
11104-28-2	Arochlor-1221	8.7	U
11141-16-5	Arochlor-1232	8.7	U
53469-21-9	Arochlor-1242	8.7	U
12672-29-6	Arochlor-1248	8.7	U
11097-69-1	Arochlor-1254	8.7	U
11096-82-5	Arochlor-1260	8.7	U
37324-23-5	Arochlor-1262	8.7	U
11100-14-4	Arochlor-1268	8.7	U

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910416-164
Lab #98272-011

Matrix: Soil

00105

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-164

Date Collected: 4/16/91

EnviroTest Lab No: 98272-011

Date Received: 4/17/91

Client Name: ESE

Date Extracted: 4/17/91

Project Name: Raybestos

Date Analyzed: 4/18/91

% Solid: 55.8

Report Date: 5/13/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	4.4	U
11104-28-2	Arochlor-1221	4.4	U
11141-16-5	Arochlor-1232	4.4	U
53469-21-9	Arochlor-1242	4.4	U
12672-29-6	Arochlor-1248	4.4	U
11097-69-1	Arochlor-1254	4.4	U
11096-82-5	Arochlor-1260	4.4	U
37324-23-5	Arochlor-1262	4.4	U
11100-14-4	Arochlor-1268	4.4	U

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910416-165
Lab #98272-013

Matrix: Soil

00107

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-165

Date Collected: 4/16/91

EnviroTest Lab No: 98272-013

Date Received: 4/17/91

Client Name: ESE

Date Extracted: 4/17/91

Project Name: Raybestos

Date Analyzed: 4/18/91

% Solid: 31.5

Report Date: 5/13/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	7.7	U
11104-28-2	Arochlor-1221	7.7	U
11141-16-5	Arochlor-1232	7.7	U
53469-21-9	Arochlor-1242	7.7	U
12672-29-6	Arochlor-1248	7.7	U
11097-69-1	Arochlor-1254	7.7	U
11096-82-5	Arochlor-1260	7.7	U
37324-23-5	Arochlor-1262	7.7	U
11100-14-4	Arochlor-1268	7.7	U

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910416-166
Lab #98272-015

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-166

Date Collected: 4/16/91

EnviroTest Lab No: 98272-015

Date Received: 4/17/91

Client Name: ESE

Date Extracted: 4/17/91

Project Name: Raybestos

Date Analyzed: 4/18/91

% Solid: 97.9

Report Date: 5/13/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	2.5	U
11104-28-2	Arochlor-1221	2.5	U
11141-16-5	Arochlor-1232	2.5	U
53469-21-9	Arochlor-1242	2.5	U
12672-29-6	Arochlor-1248	2.5	U
11097-69-1	Arochlor-1254	2.5	U
11096-82-5	Arochlor-1260	2.5	U
37324-23-5	Arochlor-1262	2.5	U
11100-14-4	Arochlor-1268	2.5	U

00110

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910416-167
Lab #98272-017

Matrix: Soil

00111

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-167	Date Collected: 4/16/91
EnviroTest Lab No: 98272-017	Date Received: 4/17/91
Client Name: ESE	Date Extracted: 4/17/91
Project Name: Raybestos	Date Analyzed: 4/18/91
% Solid: 81.2	Report Date: 5/13/91
Matrix: Soil	

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	3.0	U
11104-28-2	Arochlor-1221	3.0	U
11141-16-5	Arochlor-1232	3.0	U
53469-21-9	Arochlor-1242	3.0	U
12672-29-6	Arochlor-1248	3.0	U
11097-69-1	Arochlor-1254	3.0	U
11096-82-5	Arochlor-1260	3.0	U
37324-23-5	Arochlor-1262	3.0	1.3J
11100-14-4	Arochlor-1268	3.0	1.0J

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910416-168
Lab #98272-019

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-168 Date Collected: 4/16/91
 EnviroTest Lab No: 98272-019 Date Received: 4/17/91
 Client Name: ESE Date Extracted: 4/17/91
 Project Name: Raybestos Date Analyzed: 4/18/91
 ‡ Solid: 64.7 Report Date: 5/13/91
 Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	3.7	U
11104-28-2	Arochlor-1221	3.7	U
11141-16-5	Arochlor-1232	3.7	U
53469-21-9	Arochlor-1242	3.7	U
12672-29-6	Arochlor-1248	3.7	U
11097-69-1	Arochlor-1254	3.7	U
11096-82-5	Arochlor-1260	3.7	U
37324-23-5	Arochlor-1262	3.7	1.5J
11100-14-4	Arochlor-1268	3.7	1.1J

00114

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910416-168
Lab #98272-020

Matrix: Soil

VOLATILE ORGANICS DATA RESULTS FORM

Client ID: 910416-168

Date Collected: 4-16-91

EnviroTest Lab No: 98272-020

Date Received: 4-17-91

Client Name: ESE, Inc.

Date Analyzed: 4-23-91

Project Name: Raybestos

Report Date: 5-21-91

% Solid: 64.7

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg
74-87-3	Chloromethane	15.4	U
74-83-9	Bromomethane	15.4	U
75-01-4	Vinyl chloride	15.4	U
75-00-3	Chloroethane	15.4	U
75-09-2	Methylene chloride	7.7	7J
67-64-1	Acetone	15.4	190
75-15-0	Carbon disulfide	7.7	33
75-35-4	1,1-Dichloroethene	7.7	U
75-34-3	1,1-Dichloroethane	7.7	5J
540-59-0	1,2-Dichloroethene, total	7.7	U
67-66-3	Chloroform	7.7	U
107-02-2	1,2-Dichloroethane	7.7	U
78-93-3	2-Butanone	15.4	8.2
71-55-6	1,1,1-Trichloroethane	7.7	U
56-23-5	Carbon tetrachloride	7.7	U
108-05-4	Vinyl acetate	15.4	U
75-27-4	Bromodichloromethane	7.7	U
78-87-5	1,2-Dichloropropane	7.7	U
10061-01-5	cis-1,3-Dichloropropene	7.7	U
79-01-6	Trichloroethene	7.7	U
71-43-2	Benzene	7.7	U
124-48-1	Dibromochloromethane	7.7	U
10061-02-6	trans-1,3-Dichloropropene	7.7	U
79-00-5	1,1,2-Trichloroethane	7.7	U
75-25-2	Bromoform	7.7	U
108-10-1	4-Methyl-2-pentanone	15.4	U
591-78-6	2-Hexanone	15.4	U
79-34-5	1,1,2,2-Tetrachloroethane	7.7	U
127-18-4	Tetrachloroethene	7.7	U
108-88-3	Toluene	7.7	48
108-90-7	Chlorobenzene	7.7	U
100-41-4	Ethylbenzene	7.7	7J
100-42-5	Styrene	7.7	U
133-02-7	m-Xylene	7.7	5J
108-38-3	o,p-Xylene	7.7	7J

00116

VOLATILE ORGANICS DATA RESULTS FORM

Client ID: 910416-168

Date Collected: 4-16-91

EnviroTest Lab No: 98272-020RR

Date Received: 4-17-91

Client Name: ESE, Inc.

Date Analyzed: 4-24-91

Project Name: Raybestos

Report Date: 5-21-91

% Solid: 64.7

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg
74-87-3	Chloromethane	15.4	U
74-83-9	Bromomethane	15.4	U
75-01-4	Vinyl chloride	15.4	U
75-00-3	Chloroethane	15.4	U
75-09-2	Methylene chloride	7.7	U
67-64-1	Acetone	15.4	33J
75-15-0	Carbon disulfide	7.7	U
75-35-4	1,1-Dichloroethene	7.7	U
75-34-3	1,1-Dichloroethane	7.7	U
540-59-0	1,2-Dichloroethene, total	7.7	U
67-66-3	Chloroform	7.7	U
107-02-2	1,2-Dichloroethane	7.7	U
78-93-3	2-Butanone	15.4	U
71-55-6	1,1,1-Trichloroethane	7.7	U
56-23-5	Carbon tetrachloride	7.7	U
108-05-4	Vinyl acetate	15.4	U
75-27-4	Bromodichloromethane	7.7	U
78-87-5	1,2-Dichloropropane	7.7	U
10061-01-5	cis-1,3-Dichloropropene	7.7	U
79-01-6	Trichloroethene	7.7	U
71-43-2	Benzene	7.7	U
124-48-1	Dibromochloromethane	7.7	U
10061-02-6	trans-1,3-Dichloropropene	7.7	U
79-00-5	1,1,2-Trichloroethane	7.7	U
75-25-2	Bromoform	7.7	U
108-10-1	4-Methyl-2-pentanone	15.4	U
591-78-6	2-Hexanone	15.4	U
79-34-5	1,1,2,2-Tetrachloroethane	7.7	U
127-18-4	Tetrachloroethene	7.7	U
108-88-3	Toluene	7.7	5J
108-90-7	Chlorobenzene	7.7	U
100-41-4	Ethylbenzene	7.7	U
100-42-5	Styrene	7.7	U
133-02-7	m-Xylene	7.7	U
108-38-3	o,p-Xylene	7.7	U

PESTICIDE ORGANICS DATA RESULT FORM

Client ID: 910416-168 Date Collected: 4/16/91
 EnviroTest Lab No: 97272-020 Date Received: 4/17/91
 Client Name: ESE Date Extracted: 4/22/91
 Project Name: Raybestos Date Analyzed: 5/3/91
 % Solid: 64.7 Report Date: 5/14/91
 Matrix: Soil

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg
319-84-6	alpha-BHC	26	U
319-85-7	beta-BHC	26	U
319-86-8	delta-BHC	26	U
58-89-9	gamma-BHC(Lindane)	26	U
76-44-8	Heptachlor	26	U
309-00-2	Aldrin	26	U
1024-57-3	Heptachlor epoxide	26	U
959-98-8	Endosulfan I	26	U
60-57-1	Dieldrin	52	U
72-55-9	4,4'-DDE	52	U
72-20-8	Endrin	52	U
33213-65-9	Endosulfan II	52	U
72-54-8	4,4'-DDD	52	U
1031-07-8	Endosulfan sulfate	52	U
50-29-3	4,4'-DDT	52	U
72-43-5	Methoxychlor	260	U
7421-93-4	Endrin aldehyde	52	U
5103-71-9	alpha-Chlordane	260	U
5103-74-2	gamma-Chlordane	260	U
8001-35-2	Toxaphene	520	U
12674-11-2	Arochlor-1016	260	U
11104-28-2	Arochlor-1221	260	U
11141-16-5	Arochlor-1232	260	U
53469-21-9	Arochlor-1242	260	U
12672-29-6	Arochlor-1248	260	U
11097-69-1	Arochlor-1254	520	U
11096-82-5	Arochlor-1260	520	U
37324-23-5	Arochlor-1262	520	1440
11100-14-4	Arochlor-1268	520	2390

SEMIVOLATILE ORGANICS DATA RESULT FORM

Client ID: 910416-168

Date Collected: 4-16-91

EnviroTest Lab No: 98272-020

Date Received: 4-17-91

Client Name: ESE, Inc.

Date Extracted: 4-22-91

Project Name: Raybestos

Date Analyzed: 5-8-91

% Solid: 64.7

Report Date: 5-21-91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg	CAS NO.	COMPOUND	Detection Limit ug/kg	Co ug
108-95-2	Phenol	2600	U	606-20-2	2,6-Dinitrotoluene	2600	U
111-44-4	bis(-2-Chloroethyl)Ether	2600	U	99-09-2	3-Nitroaniline	13000	U
95-57-8	2-Chlorophenol	2600	U	83-32-9	Acenaphthene	2600	U
541-73-1	1,3-Dichlorobenzene	2600	U	51-28-5	2,4-Dinitrophenol	13000	U
106-46-7	1,4-Dichlorobenzene	2600	U	100-02-7	4-Nitrophenol	13000	U
100-51-6	Benzyl alcohol	2600	U	132-64-9	Dibenzofuran	2600	U
95-50-1	1,2-Dichlorobenzene	2600	U	121-14-2	2,4-Dinitrotoluene	2600	U
95-48-7	2-Methylphenol	2600	U	84-66-2	Diethylphthalate	2600	U
108-60-1	bis(2-chloroisopropyl)ether	2600	U	7005-72-3	4-Chlorophenyl-phenyl ether	2600	U
106-44-5	4-Methylphenol	2600	U	86-73-7	Fluorene	2600	U
621-64-7	N-Nitroso-Di-n-propylamine	2600	U	534-52-1	4,6-Dinitro-2-methylphenol	13000	U
67-72-1	Hexachloroethane	2600	U	86-30-6	N-Nitrosodiphenylamine *	2600	U
98-95-3	Nitrobenzene	2600	U	101-55-3	4-Bromophenyl-phenyl ether	2600	U
78-59-1	Isophorone	2600	U	118-74-1	Hexachlorobenzene	2600	U
88-75-5	2-Nitrophenol	2600	U	87-86-5	Pentachlorophenol	13000	U
105-67-9	2,4-Dimethylphenol	2600	U	85-01-8	Phenanthrene	2600	U
65-85-0	Benzoic acid	13000	U	120-12-7	Anthracene	2600	U
111-91-1	bis(-2-Chloroethoxy)methane	2600	U	84-74-2	Di-n-butylphthalate	2600	U
120-83-2	2,4-Dichlorophenol	2600	U	206-44-0	Fluoranthene	2600	U
120-82-1	1,2,4-Trichlorobenzene	2600	U	129-00-0	Pyrene	2600	U
91-20-3	Naphthalene	2600	U	85-68-7	Butylbenzylphthalate	2600	U
106-47-8	4-Chloroaniline	2600	U	91-94-1	3,3'-Dichlorobenzidine	5200	U
87-68-3	Hexachlorobutadiene	2600	U	56-55-3	Benzo(a)anthracene	2600	U
59-50-7	4-Chloro-3-methylphenol	2600	U	218-01-9	Chrysene	2600	U
91-57-6	2-Methylnaphthalene	2600	U	117-81-7	bis(2-Ethylhexyl)phthalate	2600	U
77-47-4	Hexachlorocyclopentadiene	2600	U	117-84-0	Di-n-octylphthalate	2600	U
88-06-2	2,4,6-Trichlorophenol	2600	U	205-99-2	Benzo(b)fluoranthene	2600	U
95-95-4	2,4,5-Trichlorophenol	13000	U	207-08-9	Benzo(k)fluoranthene	2600	U
91-58-7	2-Chloronaphthalene	2600	U	50-32-8	Benzo(a)pyrene	2600	U
88-74-4	2-Nitroaniline	13000	U	193-39-5	Indeno(1,2,3-cd)pyrene	2600	U
131-11-3	Dimethylphthalate	2600	U	53-70-3	Dibenzo(a,h)anthracene	2600	U
208-96-8	Acenaphthylene	2600	U	191-24-2	Benzo(g,h,i)perylene	2600	U
				100-01-6	4-Nitroaniline	13000	U

* Cannot be separated from diphenylamine

ORGANICS DATA RESULT FORM
TENTATIVELY IDENTIFIED COMPOUNDS

Client ID: 910416-166

Date Collected: 4-16-91

EnviroTest Lab No: 98272-020

Date Received: 4-17-91

Client Name: ESE, Inc.

Report Date: 5-21-91

Project Name: Raybestos

Matrix: Soil

% Solid: 64.7

CAS NO.	COMPOUND	FRACTION	RT or SCAN NUMBER	ESTIMATED CONCENTRATION (ug/kg)
	Unknown	VOA	9.38	11
	Unknown	VOA	11.13	26
1678917	Ethyl cyclohexane	BNA	5.32	3350
254273	4H-1,3-Benzodioxin	BNA	11.16	1800
	Unknown	BNA	20.01	2060
2467029	2,2'-Methylenebis phenol	BNA	24.32	13100
2467030	2-((4-Hydroxyphenyl) methyl)phenol	BNA	24.69	18000
	Unknown	BNA	24.94	1290
620928	4,4'-Methylene bis phenol	BNA	25.48	13700
	Unknown	BNA	26.31	3090
	Unknown Unsaturated hydrocarbon	BNA	28.36	5410
	Octachlorobiphenyl isomer	BNA	31.67	6960
52663782	2,2',3,3',4,4',5,6-Octachloro-1-1'-biphenyl	BNA	31.80	5410
17302237	4,5-Dimethyl nonane	BNA	32.14	3090
	Unknown	BNA	32.45	4640
53771883	1-Methyl-3-(1-methyl ethyl)cyclopentane	BNA	32.96	7470
	Unknown	BNA	33.79	5670
	Unknown	BNA	35.77	5930
	Unkown	BNA	36.63	5410

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910416-169
Lab #98272-021

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-169
 EnviroTest Lab No: 98272-021
 Client Name: ESE
 Project Name: Raybestos
 % Solid: 96.8
 Matrix: Soil

Date Collected: 4/16/91
 Date Received: 4/17/91
 Date Extracted: 4/17/91
 Date Analyzed: 4/18/91
 Report Date: 5/13/91

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	2.4	U
11104-28-2	Arochlor-1221	2.4	U
11141-16-5	Arochlor-1232	2.4	U
53469-21-9	Arochlor-1242	2.4	U
12672-29-6	Arochlor-1248	2.4	U
11097-69-1	Arochlor-1254	2.4	U
11096-82-5	Arochlor-1260	2.4	U
37324-23-5	Arochlor-1262	2.4	U
11100-14-4	Arochlor-1268	2.4	U

00122

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910416-170
Lab #98272-023

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-170
 EnviroTest Lab No: 98272-023
 Client Name: ESE
 Project Name: Raybestos
 % Solid: 91.9
 Matrix: Soil

Date Collected: 4/16/91
 Date Received: 4/17/91
 Date Extracted: 4/18/91
 Date Analyzed: 4/18/91
 Report Date: 5/13/91

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	2.5	U
11104-28-2	Arochlor-1221	2.5	U
11141-16-5	Arochlor-1232	2.5	U
53469-21-9	Arochlor-1242	2.5	U
12672-29-6	Arochlor-1248	2.5	U
11097-69-1	Arochlor-1254	2.5	U
11096-82-5	Arochlor-1260	2.5	U
37324-23-5	Arochlor-1262	2.5	U
11100-14-4	Arochlor-1268	2.5	U

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910416-171
Lab #98272-025

Matrix: Soil

00125

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-171	Date Collected: 4/16/91
EnviroTest Lab No: 98272-025	Date Received: 4/17/91
Client Name: ESE	Date Extracted: 4/18/91
Project Name: Raybestos	Date Analyzed: 4/18/91
% Solid: 91.8	Report Date: 5/13/91
Matrix: Soil	

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	2.7	U
11104-28-2	Arochlor-1221	2.7	U
11141-16-5	Arochlor-1232	2.7	U
53469-21-9	Arochlor-1242	2.7	U
12672-29-6	Arochlor-1248	2.7	U
11097-69-1	Arochlor-1254	2.7	U
11096-82-5	Arochlor-1260	2.7	U
37324-23-5	Arochlor-1262	2.7	U
11100-14-4	Arochlor-1268	2.7	U

00126

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910416-172
Lab #98272-027

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-171

Date Collected: 4/16/91

EnviroTest Lab No: 98272-027

Date Received: 4/17/91

Client Name: ESE

Date Extracted: 4/18/91

Project Name: Raybestos

Date Analyzed: 4/18/91

% Solid: 93.3

Report Date: 5/13/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	2.7	U
11104-28-2	Arochlor-1221	2.7	U
11141-16-5	Arochlor-1232	2.7	U
53469-21-9	Arochlor-1242	2.7	U
12672-29-6	Arochlor-1248	2.7	U
11097-69-1	Arochlor-1254	2.7	U
11096-82-5	Arochlor-1260	2.7	U
37324-23-5	Arochlor-1262	2.7	U
11100-14-4	Arochlor-1268	2.7	U

00128

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910416-173
Lab #98272-029

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-173	Date Collected: 4/16/91
EnviroTest Lab No: 98272-029	Date Received: 4/17/91
Client Name: ESE	Date Extracted: 4/18/91
Project Name: Raybestos	Date Analyzed: 4/18/91
% Solid: 98.1	Report Date: 5/13/91
Matrix: Soil	

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	2.5	U
11104-28-2	Arochlor-1221	2.5	U
11141-16-5	Arochlor-1232	2.5	U
53469-21-9	Arochlor-1242	2.5	U
12672-29-6	Arochlor-1248	2.5	U
11097-69-1	Arochlor-1254	2.5	U
11096-82-5	Arochlor-1260	2.5	U
37324-23-5	Arochlor-1262	2.5	U
11100-14-4	Arochlor-1268	2.5	U

00130

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910416-174
Lab #98272-031

Matrix: Soil

00131

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-174

Date Collected: 4/16/91

EnviroTest Lab No: 98272-031

Date Received: 4/17/91

Client Name: ESE

Date Extracted: 4/18/91

Project Name: Raybestos

Date Analyzed: 4/18/91

% Solid: 95.4

Report Date: 5/13/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	2.4	U
11104-28-2	Arochlor-1221	2.4	U
11141-16-5	Arochlor-1232	2.4	U
53469-21-9	Arochlor-1242	2.4	U
12672-29-6	Arochlor-1248	2.4	U
11097-69-1	Arochlor-1254	2.4	U
11096-82-5	Arochlor-1260	2.4	U
37324-23-5	Arochlor-1262	2.4	U
11100-14-4	Arochlor-1268	2.4	U

00132

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910416-175
Lab #98272-033

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-175	Date Collected: 4/16/91
EnviroTest Lab No: 98272-033	Date Received: 4/17/91
Client Name: ESE	Date Extracted: 4/18/91
Project Name: Raybestos	Date Analyzed: 4/19/91
% Solid: 99.9	Report Date: 5/13/91
Matrix: Soil	

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	2.5	U
11104-28-2	Arochlor-1221	2.5	U
11141-16-5	Arochlor-1232	2.5	U
53469-21-9	Arochlor-1242	2.5	U
12672-29-6	Arochlor-1248	2.5	U
11097-69-1	Arochlor-1254	2.5	U
11096-82-5	Arochlor-1260	2.5	U
37324-23-5	Arochlor-1262	2.5	U
11100-14-4	Arochlor-1268	2.5	U

00134

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910416-176
Lab #98272-035

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-176

Date Collected: 4/16/91

EnviroTest Lab No: 98272-035

Date Received: 4/17/91

Client Name: ESE

Date Extracted: 4/18/91

Project Name: Raybestos

Date Analyzed: 4/19/91

% Solid: 96.0

Report Date: 5/13/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	2.5	U
11104-28-2	Arochlor-1221	2.5	U
11141-16-5	Arochlor-1232	2.5	U
53469-21-9	Arochlor-1242	2.5	U
12672-29-6	Arochlor-1248	2.5	U
11097-69-1	Arochlor-1254	2.5	U
11096-82-5	Arochlor-1260	2.5	U
37324-23-5	Arochlor-1262	2.5	U
11100-14-4	Arochlor-1268	2.5	U

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910416-177
Lab #98272-037

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-177
 EnviroTest Lab No: 98272-037
 Client Name: ESE
 Project Name: Raybestos
 % Solid: 99.8
 Matrix: Soil

Date Collected: 4/16/91
 Date Received: 4/17/91
 Date Extracted: 4/18/91
 Date Analyzed: 4/19/91
 Report Date: 5/13/91

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	2.5	U
11104-28-2	Arochlor-1221	2.5	U
11141-16-5	Arochlor-1232	2.5	U
53469-21-9	Arochlor-1242	2.5	U
12672-29-6	Arochlor-1248	2.5	U
11097-69-1	Arochlor-1254	2.5	U
11096-82-5	Arochlor-1260	2.5	U
37324-23-5	Arochlor-1262	2.5	U
11100-14-4	Arochlor-1268	2.5	U

00138

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910416-178
Lab #98272-039

Matrix: Soil

00139

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-178

Date Collected: 4/16/91

EnviroTest Lab No: 98272-039

Date Received: 4/17/91

Client Name: ESE

Date Extracted: 4/18/91

Project Name: Raybestos

Date Analyzed: 4/19/91

% Solid: 99.8

Report Date: 5/13/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	2.4	U
11104-28-2	Arochlor-1221	2.4	U
11141-16-5	Arochlor-1232	2.4	U
53469-21-9	Arochlor-1242	2.4	U
12672-29-6	Arochlor-1248	2.4	U
11097-69-1	Arochlor-1254	2.4	U
11096-82-5	Arochlor-1260	2.4	U
37324-23-5	Arochlor-1262	2.4	U
11100-14-4	Arochlor-1268	2.4	U

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910416-179
Lab #98272-041

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-179

Date Collected: 4/16/91

EnviroTest Lab No: 98272-041

Date Received: 4/17/91

Client Name: ESE

Date Extracted: 4/18/91

Project Name: Raybestos

Date Analyzed: 4/19/91

% Solid: 88.3

Report Date: 5/13/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	2.8	U
11104-28-2	Arochlor-1221	2.8	U
11141-16-5	Arochlor-1232	2.8	U
53469-21-9	Arochlor-1242	2.8	U
12672-29-6	Arochlor-1248	2.8	U
11097-69-1	Arochlor-1254	2.8	U
11096-82-5	Arochlor-1260	2.8	U
37324-23-5	Arochlor-1262	2.8	U
11100-14-4	Arochlor-1268	2.8	U

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910416-180
Lab #98272-043

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-180 Date Collected: 4/16/91
EnviroTest Lab No: 98272-043 Date Received: 4/17/91
Client Name: ESE Date Extracted: 4/18/91
Project Name: Raybestos Date Analyzed: 4/19/91
% Solid: 83.3 Report Date: 5/13/91
Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	3.0	U
11104-28-2	Arochlor-1221	3.0	U
11141-16-5	Arochlor-1232	3.0	U
53469-21-9	Arochlor-1242	3.0	U
12672-29-6	Arochlor-1248	3.0	U
11097-69-1	Arochlor-1254	3.0	U
11096-82-5	Arochlor-1260	3.0	U
37324-23-5	Arochlor-1262	3.0	U
11100-14-4	Arochlor-1268	3.0	U

ESE, Inc.
Shelton, CT

Raybestos Memorial Field

Client ID: 910416-181
Lab #: 98272-045

Matrix: Soil

PCB ORGANICS DATA RESULT FORM

Client ID: 910415-181

Date Collected: 4/16/91

EnviroTest Lab No: 98272-045

Date Received: 4/17/91

Client Name: ESE

Date Extracted: 4/18/91

Project Name: Raybestos

Date Analyzed: 4/19/91

% Solid: 82.6

Report Date: 5/13/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit mg/kg	Conc. mg/kg
12674-11-2	Arochlor-1016	2.8	U
11104-28-2	Arochlor-1221	2.8	U
11141-16-5	Arochlor-1232	2.8	U
53469-21-9	Arochlor-1242	2.8	U
12672-29-6	Arochlor-1248	2.8	U
11097-69-1	Arochlor-1254	2.8	U
11096-82-5	Arochlor-1260	2.8	U
37324-23-5	Arochlor-1262	2.8	U
11100-14-4	Arochlor-1268	2.8	U

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910416-181
Lab #98272-046

Matrix: Soil

VOLATILE ORGANICS DATA RESULTS FORM

Client ID: 910416-181

Date Collected: 4-16-91

EnviroTest Lab No: 98272-046

Date Received: 4-17-91

Client Name: ESE, Inc.

Date Analyzed: 4-23-91

Project Name: Raybestos

Report Date: 5-21-91

% Solid: 82.6

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg
74-87-3	Chloromethane	12.0	U
74-83-9	Bromomethane	12.0	U
75-01-4	Vinyl chloride	12.0	U
75-00-3	Chloroethane	12.0	U
75-09-2	Methylene chloride	6.0	U
67-64-1	Acetone	12.0	35J
75-15-0	Carbon disulfide	6.0	U
75-35-4	1,1-Dichloroethene	6.0	U
75-34-3	1,1-Dichloroethane	6.0	U
540-59-0	1,2-Dichloroethene, total	6.0	3J
67-66-3	Chloroform	6.0	U
107-02-2	1,2-Dichloroethane	6.0	U
78-93-3	2-Butanone	12.0	U
71-55-6	1,1,1-Trichloroethane	6.0	U
56-23-5	Carbon tetrachloride	6.0	U
108-05-4	Vinyl acetate	12.0	U
75-27-4	Bromodichloromethane	6.0	U
78-87-5	1,2-Dichloropropane	6.0	U
10061-01-5	cis-1,3-Dichloropropene	6.0	U
79-01-6	Trichloroethene	6.0	U
71-43-2	Benzene	6.0	U
124-48-1	Dibromochloromethane	6.0	U
10061-02-6	trans-1,3-Dichloropropene	6.0	U
79-00-5	1,1,2-Trichloroethane	6.0	U
75-25-2	Bromoform	6.0	U
108-10-1	4-Methyl-2-pentanone	12.0	U
591-78-6	2-Hexanone	12.0	U
79-34-5	1,1,2,2-Tetrachloroethane	6.0	U
127-18-4	Tetrachloroethene	6.0	U
108-88-3	Toluene	6.0	3J
108-90-7	Chlorobenzene	6.0	U
100-41-4	Ethylbenzene	6.0	U
100-42-5	Styrene	6.0	U
133-02-7	m-Xylene	6.0	U
108-38-3	o,p-Xylene	6.0	U

VOLATILE ORGANICS DATA RESULTS FORM

Client ID: 910416-181

Date Collected: 4-16-91

EnviroTest Lab No: 98272-046RR

Date Received: 4-17-91

Client Name: ESE, Inc.

Date Analyzed: 4-23-91

Project Name: Raybestos

Report Date: 5-21-91

% Solid: 82.6

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg
74-87-3	Chloromethane	12.0	U
74-83-9	Bromomethane	12.0	U
75-01-4	Vinyl chloride	12.0	U
75-00-3	Chloroethane	12.0	U
75-09-2	Methylene chloride	6.0	U
67-64-1	Acetone	12.0	93
75-15-0	Carbon disulfide	6.0	U
75-35-4	1,1-Dichloroethene	6.0	U
75-34-3	1,1-Dichloroethane	6.0	U
540-59-0	1,2-Dichloroethene, total	6.0	U
67-66-3	Chloroform	6.0	U
107-02-2	1,2-Dichloroethane	6.0	U
78-93-3	2-Butanone	12.0	U
71-55-6	1,1,1-Trichloroethane	6.0	U
56-23-5	Carbon tetrachloride	6.0	U
108-05-4	Vinyl acetate	12.0	U
75-27-4	Bromodichloromethane	6.0	U
78-87-5	1,2-Dichloropropane	6.0	U
10061-01-5	cis-1,3-Dichloropropene	6.0	U
79-01-6	Trichloroethene	6.0	U
71-43-2	Benzene	6.0	U
124-48-1	Dibromochloromethane	6.0	U
10061-02-6	trans-1,3-Dichloropropene	6.0	U
79-00-5	1,1,2-Trichloroethane	6.0	U
75-25-2	Bromoform	6.0	U
108-10-1	4-Methyl-2-pentanone	12.0	U
591-78-6	2-Hexanone	12.0	U
79-34-5	1,1,2,2-Tetrachloroethane	6.0	U
127-18-4	Tetrachloroethene	6.0	U
108-88-3	Toluene	6.0	U
108-90-7	Chlorobenzene	6.0	U
100-41-4	Ethylbenzene	6.0	U
100-42-5	Styrene	6.0	U
133-02-7	m-Xylene	6.0	U
108-38-3	o,p-Xylene	6.0	U

00149

PESTICIDE ORGANICS DATA RESULT FORM

Client ID: 910416-181

Date Collected: 4/16/91

EnviroTest Lab No: 97272-046

Date Received: 4/17/91

Client Name: ESE

Date Extracted: 4/22/91

Project Name: Raybestos

Date Analyzed: 5/2/91

% Solid: 82.6

Report Date: 5/14/91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC(Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	4.0	U
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	4.0	U
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	4.0	U
72-43-5	Methoxychlor	20	U
7421-93-4	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	20	U
5103-74-2	gamma-Chlordane	20	U
8001-35-2	Toxaphene	40	U
12674-11-2	Arochlor-1016	20	U
11104-28-2	Arochlor-1221	20	U
11141-16-5	Arochlor-1232	20	U
53469-21-9	Arochlor-1242	20	U
12672-29-6	Arochlor-1248	20	U
11097-69-1	Arochlor-1254	40	U
11096-82-5	Arochlor-1260	40	U
37324-23-5	Arochlor-1262	40	U
11100-14-4	Arochlor-1268	40	U

SEMI-VOLATILE ORGANICS DATA RESULT FORM

Client ID: 910416-181

Date Collected: 4-16-91

EnviroTest Lab No: 98272-046

Date Received: 4-17-91

Client Name: ESE, Inc.

Date Extracted: 4-22-91

Project Name: Raybestos

Date Analyzed: 5-8-91

% Solid: 82.6

Report Date: 5-21-91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg	CAS NO.	COMPOUND	Detection Limit ug/kg
108-95-2	Phenol	400	U	606-20-2	2,6-Dinitrotoluene	400
111-44-4	bis(-2-Chloroethyl)Ether	400	U	99-09-2	3-Nitroaniline	2000
95-57-8	2-Chlorophenol	400	U	83-32-9	Acenaphthene	400
541-73-1	1,3-Dichlorobenzene	400	U	51-28-5	2,4-Dinitrophenol	2000
106-46-7	1,4-Dichlorobenzene	400	U	100-02-7	4-Nitrophenol	2000
100-51-6	Benzyl alcohol	400	U	132-64-9	Dibenzofuran	400
95-50-1	1,2-Dichlorobenzene	400	U	121-14-2	2,4-Dinitrotoluene	600
95-48-7	2-Methylphenol	400	U	84-66-2	Diethylphthalate	400
108-60-1	bis(2-chloroisopropyl)ether	400	U	7005-72-3	4-Chlorophenyl-phenyl ether	400
106-44-5	4-Methylphenol	400	U	86-73-7	Fluorene	400
621-64-7	N-Nitroso-Di-n-propylamine	400	U	534-52-1	4,6-Dinitro-2-methylphenol	2000
67-72-1	Hexachloroethane	400	U	86-30-6	N-Nitrosodiphenylamine *	400
98-95-3	Nitrobenzene	400	U	101-55-3	4-Bromophenyl-phenyl ether	400
78-59-1	Isophorone	400	U	118-74-1	Hexachlorobenzene	400
88-75-5	2-Nitrophenol	400	U	87-86-5	Pentachlorophenol	2000
105-67-9	2,4-Dimethylphenol	400	U	85-01-8	Phenanthrene	400
65-85-0	Benzoic acid	2000	U	120-12-7	Anthracene	400
111-91-1	bis(-2-Chloroethoxy)methane	400	U	84-74-2	Di-n-butylphthalate	400
120-83-2	2,4-Dichlorophenol	400	U	206-44-0	Fluoranthene	400
120-82-1	1,2,4-Trichlorobenzene	400	U	129-00-0	Pyrene	400
91-20-3	Naphthalene	400	U	85-68-7	Butylbenzylphthalate	400
106-47-8	4-Chloroaniline	400	U	91-94-1	3,3'-Dichlorobenzidine	800
87-68-3	Hexachlorobutadiene	400	U	56-55-3	Benzo(a)anthracene	400
59-50-7	4-Chloro-3-methylphenol	400	U	218-01-9	Chrysene	400
91-57-6	2-Methylnaphthalene	400	U	117-81-7	bis(2-Ethylhexyl)phthalate	400
77-47-4	Hexachlorocyclopentadiene	400	U	117-84-0	Di-n-octylphthalate	400
88-06-2	2,4,6-Trichlorophenol	400	U	205-99-2	Benzo(b)fluoranthene	400
95-95-4	2,4,5-Trichlorophenol	2000	U	207-08-9	Benzo(k)fluoranthene	400
91-58-7	2-Chloronaphthalene	400	U	50-32-8	Benzo(a)pyrene	400
88-74-4	2-Nitroaniline	2000	U	193-39-5	Indeno(1,2,3-cd)pyrene	400
131-11-3	Dimethylphthalate	400	U	53-70-3	Dibenzo(a,h)anthracene	400
208-96-8	Acenaphthylene	400	U	191-24-2	Benzo(g,h,i)perylene	400
				100-01-6	4-Nitroaniline	2000

* Cannot be separated from diphenylamine

00151

SEMIVOLATILE ORGANICS DATA RESULT FORM

Client ID: 910416-181

Date Collected: 4-16-91

EnviroTest Lab No: 98272-046RR

Date Received: 4-17-91

Client Name: ESE, Inc.

Date Extracted: 4-22-91

Project Name: Raybestos

Date Analyzed: 5-9-91

% Solid: 82.6

Report Date: 5-21-91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg	CAS NO.	COMPOUND	Detection Limit ug/kg	Cor ug/
108-95-2	Phenol	400	U	606-20-2	2,6-Dinitrotoluene	400	U
111-44-4	bis(-2-Chloroethyl)Ether	400	U	99-09-2	3-Nitroaniline	2000	U
95-57-8	2-Chlorophenol	400	U	83-32-9	Acenaphthene	400	U
541-73-1	1,3-Dichlorobenzene	400	U	51-28-5	2,4-Dinitrophenol	2000	U
106-46-7	1,4-Dichlorobenzene	400	U	100-02-7	4-Nitrophenol	2000	U
100-51-6	Benzyl alcohol	400	U	132-64-9	Dibenzofuran	400	U
95-50-1	1,2-Dichlorobenzene	400	U	121-14-2	2,4-Dinitrotoluene	600	U
95-48-7	2-Methylphenol	400	U	84-66-2	Diethylphthalate	400	U
108-60-1	bis(2-chloroisopropyl)ether	400	U	7005-72-3	4-Chlorophenyl-phenyl ether	400	U
106-44-5	4-Methylphenol	400	U	86-73-7	Fluorene	400	U
621-64-7	N-Nitroso-Di-n-propylamine	400	U	534-52-1	4,6-Dinitro-2-methylphenol	2000	U
67-72-1	Hexachloroethane	400	U	86-30-6	N-Nitrosodiphenylamine *	400	U
98-95-3	Nitrobenzene	400	U	101-55-3	4-Bromophenyl-phenyl ether	400	U
78-59-1	Isophorone	400	U	118-74-1	Hexachlorobenzene	400	U
88-75-5	2-Nitrophenol	400	U	87-86-5	Pentachlorophenol	2000	U
105-67-9	2,4-Dimethylphenol	400	U	85-01-8	Phenanthrene	400	U
65-85-0	Benzoic acid	2000	U	120-12-7	Anthracene	400	U
111-91-1	bis(-2-Chloroethoxy)methane	400	U	84-74-2	Di-n-butylphthalate	400	U
120-83-2	2,4-Dichlorophenol	400	U	206-44-0	Fluoranthene	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U	129-00-0	Pyrene	400	U
91-20-3	Naphthalene	400	U	85-68-7	Butylbenzylphthalate	400	U
106-47-8	4-Chloroaniline	400	U	91-94-1	3,3'-Dichlorobenzidine	800	U
87-68-3	Hexachlorobutadiene	400	U	56-55-3	Benzo(a)anthracene	400	L
59-50-7	4-Chloro-3-methylphenol	400	U	218-01-9	Chrysene	400	U
91-57-6	2-Methylnaphthalene	400	U	117-81-7	bis(2-Ethylhexyl)phthalate	400	U
77-47-4	Hexachlorocyclopentadiene	400	U	117-84-0	Di-n-octylphthalate	400	U
88-06-2	2,4,6-Trichlorophenol	400	U	205-99-2	Benzo(b)fluoranthene	400	L
95-95-4	2,4,5-Trichlorophenol	2000	U	207-08-9	Benzo(k)fluoranthene	400	L
91-58-7	2-Chloronaphthalene	400	U	50-32-8	Benzo(a)pyrene	400	L
88-74-4	2-Nitroaniline	2000	U	193-39-5	Indeno(1,2,3-cd)pyrene	400	L
131-11-3	Dimethylphthalate	400	U	53-70-3	Dibenzo(a,h)anthracene	400	L
208-96-8	Acenaphthylene	400	U	191-24-2	Benzo(g,h,i)perylene	400	L
				100-01-6	4-Nitroaniline	2000	L

* Cannot be separated from diphenylamine

ORGANICS DATA RESULT FORM
TENTATIVELY IDENTIFIED COMPOUNDS

Client ID: 910416-181

Date Collected: 4-16-91

EnviroTest Lab No: 98272-046

Date Received: 4-17-91

Client Name: ESE, Inc.

Report Date: 5-21-91

Project Name: Raybestos

Matrix: Soil

% Solid: 82.6

CAS NO.	COMPOUND	FRACTION	RT or SCAN NUMBER	ESTIMATED CONCENTRATION (ug/kg)
64175	Ethanol	VOA	5.95	8
67630	2-Propanol	VOA	9.25	62
71238	1-Propanol	VOA	10.97	42
3726474	1-Ethyl-3-methyl cyclopentane	BNA	6.08	280
123422	4-Hydroxy-4-methyl- 2-pentanone	BNA	6.12	850
111762	2-Butoxy ethanol	BNA	7.29	440
111900	2-(2-Ethoxy ethoxy) ethanol	BNA	9.17	240

ORGANICS DATA RESULT FORM
TENTATIVELY IDENTIFIED COMPOUNDS

Client ID: 910416-181

Date Collected: 4-16-91

EnviroTest Lab No: 98272-046RR

Date Received: 4-17-91

Client Name: ESE, Inc.

Report Date: 5-21-91

Project Name: Raybestos

Matrix: Soil

% Solid: 82.6

CAS NO.	COMPOUND	FRACTION	RT or SCAN NUMBER	ESTIMATED CONCENTRATION (ug/kg)
638040	cis-1,3-Dimethyl cyclohexane	BNA	4.89	280
123422	4-Hydroxy-4-methyl- 2-pentanone	BNA	5.30	1090
111762	2-Butoxy ethanol	BNA	6.34	440

00154

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910416-182
Field Blank
Lab #98272-047

Matrix: Soil

VOLATILE ORGANICS DATA RESULTS FORM

Client ID: 910416-182 Field Blank

Date Collected: 4/16/91

EnviroTest Lab No: 98272-047

Date Received: 4/17/91

Client Name: ESE

Date Analyzed: 4/22/91

Project Name: Raybestos

Report Date: 5/15/91

% Solid:

Matrix: Water

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene, total	5	U
67-66-3	Chloroform	5	U
107-02-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
71-43-2	Benzene	5	U
124-48-1	Dibromochloromethane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
133-02-7	m-Xylene	5	U
108-38-3	o,p-Xylene	5	U

00156

PESTICIDE ORGANICS DATA RESULT FORM

Client ID: 910416-182 Field Blank

Date Collected: 4/16/91

EnviroTest Lab No: 97272-047

Date Received: 4/17/91

Client Name: ESE

Date Extracted: 4/22/91

Project Name: Raybestos

Date Analyzed: 5/2/91

‡ Solid:

Report Date: 5/14/91

Matrix: Water

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC(Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4'-DDE	0.1	U
72-20-8	Endrin	0.1	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4'-DDD	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U
50-29-3	4,4'-DDT	0.1	U
72-43-5	Methoxychlor	0.5	U
7421-93-4	Endrin aldehyde	0.1	U
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-21-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	1.0	U
11096-82-5	Arochlor-1260	1.0	U
37324-23-5	Arochlor-1262	1.0	U
11100-14-4	Arochlor-1268	1.0	U

00157

SEMIVOLATILE ORGANICS DATA RESULT FORM

Client ID: 910416-182 Field Blk

Date Collected: 4-16-91

EnviroTest Lab No: 98272-047

Date Received: 4-17-91

Client Name: ESE, Inc.

Date Extracted: 4-22-91

Project Name: Raybestos

Date Analyzed: 5-8-91

% Solid:

Report Date: 5-21-91

Matrix: Soil

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg	CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg
108-95-2	Phenol	10	U	606-20-2	2,6-Dinitrotoluene	10	U
111-44-4	bis(-2-Chloroethyl)Ether	10	U	99-09-2	3-Nitroaniline	50	U
95-57-8	2-Chlorophenol	10	U	83-32-9	Acenaphthene	10	U
541-73-1	1,3-Dichlorobenzene	10	U	51-28-5	2,4-Dinitrophenol	50	U
106-46-7	1,4-Dichlorobenzene	10	U	100-02-7	4-Nitrophenol	50	U
100-51-6	Benzyl alcohol	10	U	132-64-9	Dibenzofuran	10	U
95-50-1	1,2-Dichlorobenzene	10	U	121-14-2	2,4-Dinitrotoluene	10	U
95-48-7	2-Methylphenol	10	U	84-66-2	Diethylphthalate	10	U
108-60-1	bis(2-chloroisopropyl)ether	10	U	7005-72-3	4-Chlorophenyl-phenyl ether	10	U
106-44-5	4-Methylphenol	10	U	86-73-7	Fluorene	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U	534-52-1	4,6-Dinitro-2-methylphenol	50	U
67-72-1	Hexachloroethane	10	U	86-30-6	N-Nitrosodiphenylamine *	10	U
98-95-3	Nitrobenzene	10	U	101-55-3	4-Bromophenyl-phenyl ether	10	U
78-59-1	Isophorone	10	U	118-74-1	Hexachlorobenzene	10	U
88-75-5	2-Nitrophenol	10	U	87-86-5	Pentachlorophenol	50	U
105-67-9	2,4-Dimethylphenol	10	U	85-01-8	Phenanthrene	10	U
65-85-0	Benzoic acid	50	U	120-12-7	Anthracene	10	U
111-91-1	bis(-2-Chloroethoxy)methane	10	U	84-74-2	Di-n-butylphthalate	10	U
120-83-2	2,4-Dichlorophenol	10	U	206-44-0	Fluoranthene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U	129-00-0	Pyrene	10	U
91-20-3	Naphthalene	10	U	85-68-7	Butylbenzylphthalate	10	U
106-47-8	4-Chloroaniline	10	U	91-94-1	3,3'-Dichlorobenzidine	20	U
87-68-3	Hexachlorobutadiene	10	U	56-55-3	Benzo(a)anthracene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U	218-01-9	Chrysene	10	U
91-57-6	2-Methylnaphthalene	10	U	117-81-7	bis(2-Ethylhexyl)phthalate	10	U
77-47-4	Hexachlorocyclopentadiene	10	U	117-84-0	Di-n-octylphthalate	10	U
88-06-2	2,4,6-Trichlorophenol	10	U	205-99-2	Benzo(b)fluoranthene	10	U
95-95-4	2,4,5-Trichlorophenol	50	U	207-08-9	Benzo(k)fluoranthene	10	U
91-58-7	2-Chloronaphthalene	10	U	50-32-8	Benzo(a)pyrene	10	U
88-74-4	2-Nitroaniline	50	U	193-39-5	Indeno(1,2,3-cd)pyrene	10	U
131-11-3	Dimethylphthalate	10	U	53-70-3	Dibenzo(a,h)anthracene	10	U
208-96-8	Acenaphthylene	10	U	191-24-2	Benzo(g,h,i)perylene	10	U
				100-01-6	4-Nitroaniline	50	U

* Cannot be separated from diphenylamine

00158

ORGANICS DATA RESULT FORM
TENTATIVELY IDENTIFIED COMPOUNDS

Client ID: 910416-182 Field Blk

Date Collected: 4-16-91

EnviroTest Lab No: 98272-047

Date Received: 4-17-91

Client Name: ESE, Inc.

Report Date: 5-21-91

Project Name: Raybestos

Matrix: Soil

* Solid:

CAS NO.	COMPOUND	FRACTION	RT or SCAN NUMBER	ESTIMATED CONCENTRATION (ug/kg)
67630	2-Propanol	VOA	9.25	120
71238	1-Propanol	VOA	11.01	9
123422	4-Hydroxy-4-methyl- 2-pentanone	BNA	5.32	47
111762	2-Butoxy ethanol	BNA	6.37	640
111900	2-(2-Ethoxy ethoxy) ethanol	BNA	8.13	480

ESE, Inc.
Shelton, CT

Raybestos

Client ID: 910416-183
Trip Blank
Lab #98272-048

Matrix: Soil

VOLATILE ORGANICS DATA RESULTS FORM

Client ID: 910416-183 Trip Blank

Date Collected: 4/16/91

EnviroTest Lab No: 98272-048

Date Received: 4/17/91

Client Name: ESE

Date Analyzed: 4/22/91

Project Name: Raybestos

Report Date: 5/15/91

% Solid:

Matrix: Water

CAS NO.	COMPOUND	Detection Limit ug/kg	Conc. ug/kg
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene, total	5	U
67-66-3	Chloroform	5	U
107-02-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
71-43-2	Benzene	5	U
124-48-1	Dibromochloromethane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
133-02-7	m-Xylene	5	U
108-38-3	o,p-Xylene	5	U

Peak Name	Ret Time	Area	Amount
UI KNOWN	21.982	20723	-
UI KNOWN	22.296	59936	-
EI DOSULFAN II	23.121	2557	0.009 [^]
UI KNOWN	23.686	89941	-
UI KNOWN	24.177	370681	-
EI DRIN ALDEHYDE	24.444	68118	0.268 [^]
EI DO SULFATE	25.047	24429	0.075 [^]
UI KNOWN	25.650	279346	-
D: C	26.201	87123	0.367 [^]
UI KNOWN	26.408	448903	-
UI KNOWN	28.005	96694	-
M: THOXYCHLOR	28.526	955176 ^y	8.972 [^]
UI KNOWN	28.824	1001710 ^y	-
UI KNOWN	30.845	260364 ^y	-
UI KNOWN	31.750	110541	-
UI KNOWN	32.431	689627 ^y	-
UI KNOWN	35.661	1424262 ^y	-
UI KNOWN	36.890	105239	-
UI KNOWN	39.087	138409	-

910325-071
 2999-11
 FSE-Stack
 UF=10ml
 0.03167
 1:25

* This amount was computed using manually entered responses.

Amount

$$\frac{4331139}{333639} \times \frac{10\text{ml}}{0.03167} \times 25 = 100,000 \mu\text{g/kg}$$

in milk

- Calculated against AR 1268
- Analyzed 4-12-91 at 20:09

D.L. $\frac{160 \mu\text{g/kg}}{1} \times 25 = 4000 \mu\text{g/kg}$

ORGANICS DATA RESULT FORM
TENTATIVELY IDENTIFIED COMPOUNDS

Client ID: 910416-183 Trip Blk

Date Collected: 4-16-91

EnviroTest Lab No: 98272-048

Date Received: 4-17-91

Client Name: ESE, Inc.

Report Date: 5-21-91

Project Name: Raybestos

Matrix: Soil

% Solid:

CAS NO.	COMPOUND	FRACTION	RT or SCAN NUMBER	ESTIMATED CONCENTRATION (ug/kg)
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No extra peaks detected in VOA fraction
at >10% of internal standards.



Environmental
Science &
Engineering, Inc.

July 18, 1991

Mr. Tom Hughes
ESE, Inc.
555 Bridgeport Ave
Shelton, CT 06484

RE: Raybestos Data Validation

Dear Tom:

I have completed the validation of the data from EnviroTest Laboratories. The data has been reviewed for compliance with USEPA CLP procedures, using forms from the User's Guide to Contract Laboratory Program [USEPA/540/8-89/012, December 1988].

Aside from a number of minor sample number correlation errors in the raw data, duplicated data, misplaced QC forms, missing results pages for diluted samples, etc., I offer the following comments regarding the data:

VOCs:

Calibration information is reasonable and documented, both initial and continuing calibrations. Tune criteria were consistently met. The laboratory had considerable problems keeping the "volatile gases" calibrated and frequently recalibrated only for those few compounds. It should be noted there were few, if any, hits for these compounds. There were a few documented problems with surrogate recoveries, especially for samples which contained significant levels of aromatic compounds. Spike recoveries were good.

Two samples must be treated as minimal estimated values, ESE #910415-145, and #910415-160, based on surrogate recoveries outside the limits. The first sample was diluted and re-analyzed without acceptable calibration, the second sample was re-analyzed and also had unacceptable surrogate recovery.

BNAs:

Calibration information is reasonable and documented, both initial and continuing calibrations. Tune criteria were consistently met. There were a few documented problems with surrogate recoveries. Several samples included PCB isomers among the tentatively identified compounds (TICs). Half the matrix spike/matrix spike duplicate analyses had problems with spike recoveries and %RPDs, suggesting considerable matrix effects. As is documented in the case narratives (Attachment B), numerous samples required dilution and/or re-analysis.

Mr. Tom Hughes
RE: Raybestos
Page Two.

Pesticides/PCBs:

One-third of the analyses and therefore the results must be qualified as minimal values. The laboratory had considerable problems with continued calibration of the instrument. This might well be expected, based on the concentrations reported. It is very difficult to judge whether the detectors were frequently saturated, based on the chromatograms. Compared to the data generated by the ESE - Peoria laboratory (which was asked to analyze only for Aroclors 1262 & 1268), there is a significant discrepancy. The ESE - Peoria laboratory reported only Aroclor 1268 while EnviroTest indicated both aroclors in most cases.

In reviewing the raw data, i.e. chromatograms, provided by EnviroTest, a reliable determination cannot be made since most of the chromatograms are "topped out" or off-scale. The chromatograms of the standards for comparison are not included in the data package. As I understand it, EnviroTest was not contracted to perform analyses for Aroclors 1262 & 1268. ESE - Peoria laboratory was contracted to perform these analyses, and their data suggests the differences between 1262 and 1268 are based mainly on distribution of the isomers in the chromatogram rather than a significant difference in retention time windows for various peaks in the pattern. From the information provided, I must favor the ESE - Peoria laboratory's identifications, along with their concentrations.

Metals:

Minimal information beyond the results and a spike & duplicate QC page is included. The results include flags indicating problems with the post-digestion spike results for lead and selenium, pre-digestion spike recoveries for arsenic and lead, and serial dilution recoveries for barium which suggest matrix interferences. At a minimum, the results for lead must be viewed as questionable or disqualified.

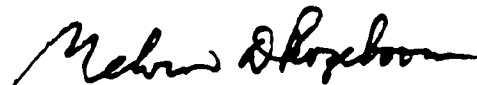
In summary, the majority of the data can be used to define the extent of the contamination at the site. There is little doubt that certain areas are highly contaminated by Aroclor 1268. The data has been evaluated strictly from a technical compliance to methodology viewpoint. I have not been provided with site maps or locations to determine whether the concentrations found follow expected contours.

If you have any questions or need more information that I can provide, please give me a call at 1-800-234-1239.

If you have any questions, please give me a call.

Sincerely,

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.



Melvin D. Rozeboom
Senior Project Manager

MDR:mdr\127



ATTACHMENT A

A Cross-Reference Table of ESE Sample Numbers vs EnviroTest Sample Numbers

Lab Name: EnviroTest Laboratories, Inc.
315 Fullerton Avenue
Newburgh, NY 12550

<u>ESE Sample #</u>	<u>EnviroTest Sample #</u>	<u>ESE Sample #</u>	<u>EnviroTest Sample #</u>
910318-006	97337-001	910327-101	97626-001
910319-019	97337-011	910327-122	97626-021
910319-026	97337-015	910327-134	97626-029
910319-027	97337-016	910327-135	97626-030
910320-040	97483-001	910327-137	97797-001
910320-034	97483-002	910328-131	97673-011
910320-025	97483-003	910415-138	98217-001
910320-039	97483-004	910415-139	98217-002
		910415-145	98217-014
910321-039	97456-001	910415-153	98217-030
910321-058	97456-008	910415-160	98272-004
910321-054	97456-014	910416-168	98272-020
910320-043	97456-015	910416-181	98272-046
		910416-182	98272-047
		910416-183	98272-048
910325-064	97529-007		
910325-081	97529-013		
910325-082	97529-014	910430-200	98766-001
910325-071	97636-009	910430-201	98766-002
910325-075	97636-017	910430-202	98766-003
		910430-203	98766-004
910326-084	97583-009	910430-204	98766-005
910326-092	97583-021	910430-205	98766-006
910326-099	97583-035	910430-206	98766-007
910325-101 ?	97583-039	910430-207	98766-008
		910430-208	98766-009



Notes:

- Hits* - For TCL compounds, only those parameters whose concentration exceeds the quantitation limit are counted, i.e. values with a "J" flag are excluded.
- IS - Internal Standard Areas were not tabulated, or were not included with the deliverables. The boxes have been marked with "***". While screening the available raw data, no significant problems were apparent.
- Cont. Calibration - (VOCs and BNAs) graded as "OK" if all CCC compounds have %RSD <25%, otherwise "FAIL".
- No of SPCC - graded as "OK" if all SPCC compounds meet the criteria - ave. RF >0.30 for the VOC SPCCs, except for Bromoform requiring ave. RF >0.25. For BNAs, the SPCCs must each have ave. RFs >0.05.; otherwise "FAIL".
- Cont. Calibration - (Pesticides/PCBs) graded "OK" if the following standard analysis, i.e. INDA or INDB, had calibration factors within +15% for the primary column and +20% for the confirmation column, otherwise "FAIL".

Contract Compliance Screening for Volatile Organics Page 1 of 11

Project Name: Raybestos, Stratford, CT

Date: 7/18/91

Lab Name: EnviroTest Laboratories, Inc.

Reviewed By Melvin D. Royster

Sample No.	Conc/ Matrix	DATE		Analysis Time/ File	Assoc'd Tune Time	Assoc'd Method Blank	Calibration			Hits*		No of SPCC	Sur Out	Problems
		Received	Analyzed				Init	Cont	IS	TCL	TIC			
910318-006	Low/ Soil	3/20/91	3/26/91	15:36 V1175	8:31 BFB66 OK	11:57 V1172	3/11 OK	OK	**	1	2	OK	0	
910318-006DL	Low/ Soil	3/20/91	3/27/91	17:33 V1180	10:55 BFB67 OK	16:38 V1179	3/11 OK	OK	**	NO TABLE	NO TABLE	OK	0	NO RESULTS PAGE
910318-006DL	Med/ Soil	3/20/91	4/1/91	13:02 V1300	8:05 BFB66 OK	10:43 V1299	3/17 OK	OK	**	2	NO TABLE	OK	0	DIFFERENT INSTRUMENT - SAME BFB FILE NAME
910318-006MS	Low/ Soil	3/20/91	3/27/91	18:27 V1181	10:55 BFB67 OK	16:38 V1179	3/11 OK	OK	**	NO DATA	NO DATA	OK	0	
910318-006MSD	Low/ Soil	3/20/91	3/27/91	19:21 V1182	10:55 BFB67 OK	16:38 V1179	3/11 OK	OK	**	NO DATA	NO DATA	OK	1	
910319-019	Med/ Soil	3/20/91	3/29/91	0:07 V1288	12:07 BFB65	15:09 V1277	3/17 OK	OK	**	2	7	OK	0	
910319-026 Trp Blnk	Low/ Water	3/20/91	3/26/91	13:41 V1173	8:31 BFB66 OK	11:57 V1172	3/11 OK	OK	**	0	1	OK	0	

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Project Name: Raybestos, Stratford, CT

Date: 7/18/91

Lab Name: EnviroTest Laboratories, Inc.

Reviewed By *Yelena D. Lopez*

Sample No.	Conc/ Matrix	DATE		Analysis Time/ File	Assoc'd Tune Time	Assoc'd Method Blank	Calibration			Hits*		No of SPCC	Sur Out	Problems
		Received	Analyzed				Init	Cont	IS	TCL	TIC			
910319-027 Fld Blk	Low/ Water	3/20/91	3/26/91	14:39 V1174	8:31 BFB66 OK	11:57 V1172	3/11 OK	OK	**	1	2	OK	0	
910325-064	Low/ Soil	3/26/91	4/2/91	20:58 V1224	9:45 BFB71 OK	12:33 V1216	3/11 OK	OK	**	7	8	OK	1	
910325-064DL	Med/ Soil	3/26/91	4/4/91	17:24 W5686	11:12 Y0406 OK	14:57 W5684	4/2 OK	OK	**	4	NO TABLE	OK	0	
910325-081 Fld Blk	Low/ Water	3/26/91	4/4/91	16:56 V1244	9:53 BFB73 OK	15:30 V1243	3/11 OK	OK	**	0	2	OK	0	
910325-082 Trp Blk	Low/ Water	3/26/91	4/4/91	17:51 V1245	9:53 BFB73 OK	15:30 V1243	3/11 OK	OK	**	0	1	OK	0	
910325-071	Med/ Soil	3/28/91	4/8/91	W5711 20:14	8:36 Y0408 OK	16:23 W5707	4/2 OK	OK	**	3	3	OK	0	
910325-075	Low/ Soil	3/28/91	4/8/91	V1253 15:47	9:00 BFB76 OK	12:15 V1250	3/11 OK	OK	**	4	2	OK	0	

Project Name: Raybestos, Stratford, CT

Date: 7/18/91

Lab Name: EnviroTest Laboratories, Inc.

Reviewed By *Melvin D. Rozelon*

Sample No.	Conc/ Matrix	DATE		Analysis Time/ File	Assoc'd Tune Time	Assoc'd Method Blank	Calibration			Hits*		No of SPCC	Sur Out	Problems
		Received	Analyzed				Init	Cont	IS	TCL	TIC			
910326-084	Low/ Soil	3/27/91	4/2/91	18:16 V1221	9:45 BFB71 OK	12:33 V1216	3/11 OK	OK	**	8	4	OK	0	
910326-084DL	Med/ Soil	3/27/91	4/3/91	16:56 W5674	9:36 Y0404 OK	12:45 W5671	4/2 OK	OK	**	4	NO TABLE	OK	1	
910326-092	Low/ Soil	3/27/91	4/2/91	19:10 V1222	9:45 BFB71 OK	12:33 V1216	3/11 OK	OK	**	6	8	OK	1	
910326-092DL	Med/ Soil	3/27/91	4/4/91	18:18 W5687	11:12 Y0406 OK	14:57 W5684	4/2 OK	OK	**	5	NO TABLE	OK	0	
910326-099	Low/ Soil	3/27/91	4/2/91	20:04 V1223	9:45 BFB71 OK	12:33 V1216	3/11 OK	OK	**	7	11	OK	0	
910326-099DL	Med/ Soil	3/27/91	4/4/91	16:31 W5685	11:12 Y0406 OK	14:57 W5684	4/2 OK	OK	**	3	NO TABLE	OK	?	NO RAW DATA - ANALYSIS FILE IN SOME TABLES
910326-099DL	Med/ Soil	3/27/91	4/5/91	20:24 W5701	9:53 Y0407 OK	14:33 W5695	4/2 OK	OK	**	1	NO TABLE	OK	0	NO RESULTS PAGE

Contract Compliance Screening for Volatile Organics

Page 4 of 11

Project Name: Raybestos, Stratford, CT

Date: 7/18/91

Lab Name: EnviroTest Laboratories, Inc.

Reviewed By Melvin D. Robinson

Sample No.	Conc/ Matrix	DATE		Analysis Time/ File	Assoc'd Tune Time	Assoc'd Method Blank	Calibration			Hits*		No of SPCC	Sur Out	Problems
		Received	Analyzed				Init	Cont	IS	TCL	TIC			
910325-101?	Low/???	3/27/91	4/2/91	15:10 V1218	9:45 BFB71 OK	12:33 V1216	3/11 OK	OK	**	0	1	OK	0	IS THIS A TRIP BLANK?
910327-101	Low/Soil	3/28/91	4/9/91	15:56 V1265	9:34 BFB77 OK	14:49 V1264	3/11 OK	OK	**	1	2	OK	0	
910327-101MS	Low/Soil	3/28/91	4/9/91	17:05 V1266	9:34 BFB77 OK	14:49 V1264	3/11 OK	OK	**	NO DATA	NO DATA	OK	0	
910327-101MSD	Low/Soil	3/28/91	4/9/91	18:00 V1267	9:34 BFB77 OK	14:49 V1264	3/11 OK	OK	**	NO DATA	NO DATA	OK	0	
910327-122	Med/Soil	3/28/91	4/9/91	16:40 W5717	10:44 Y0409 OK	15:22 W5716	4/2 OK	OK	**	6	9	FAIL	0	
910327-122DL	Med/Soil	3/28/91	4/10/91	19:51 W5726	14:40 Y0410 OK	18:05 W5724	4/2 OK	OK	**	5	NO TABLE	FAIL	0	
910327-134 Fld Blnk	Low/Water	3/28/91	4/2/91	16:28 V1219	9:45 BFB71 OK	12:33 V1216	3/11 OK	OK	**	0	2	OK	0	

Contract Compliance Screening for Volatile Organics Page 5 of 11

Project Name: Raybestos, Stratford, CT

Date: 7/18/91

Lab Name: EnviroTest Laboratories, Inc.

Reviewed By Yahmin D. Lopez

Sample No.	Conc/ Matrix	DATE		Analysis Time/ File	Assoc'd Tune Time	Assoc'd Method Blank	Calibration			Hits*		No of SPCC	Sur Out	Problems
		Received	Analyzed				Init	Cont	IS	TCL	TIC			
910327-135 Trp Blnk	Low/ Water	3/28/91	4/2/91	17:23 V1220	9:45 BFB71 OK	12:33 V1216	3/11 OK	OK	**	0	1	OK	0	
910328-131	Med/ Soil	3/29/91	4/11/91	18:09 W5729	13:22 Y0411 OK	17:16 W5728	4/2 OK	OK	**	4	3	OK	0	
910328-131MS	Med/ Soil	3/29/91	4/11/91	19:02 W5730	13:22 Y0411 OK	17:16 W5728	4/2 OK	OK	**	NO DATA	NO DATA	OK	1	
910328-131MSD	Med/ Soil	3/29/91	4/11/91	19:55 W5731	13:22 Y0411 OK	17:16 W5728	4/2 OK	OK	**	NO DATA	NO DATA	OK	2	
910327-137	Low/ Soil	4/3/91	4/8/91	16:47 V1254	9:00 BFB76 OK	12:15 V1250	3/11 OK	OK	**	1	1	OK	0	
910327-137MS	Low/ Soil	4/3/91	4/8/91	17:41 V1255	9:00 BFB76 OK	12:15 V1250	3/11 OK	OK	**	NO DATA	NO DATA	OK	0	NO SPIKE RECOVERY DATA
910327-137MSD	Low/ Soil	4/3/91	4/8/91	18:36 V1256	9:00 BFB76 OK	12:15 V1250	3/11 OK	OK	**	NO DATA	NO DATA	OK	0	NO SPIKE RECOVERY DATA

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Project Name: Raybestos, Stratford, CT

Date: 7/18/91

Lab Name: EnviroTest Laboratories, Inc.

Reviewed By Melvin D. Raybon

Sample No.	Conc/ Matrix	DATE		Analysis Time/ File	Assoc'd Tune Time	Assoc'd Method Blank	Calibration			Hits*		No of SPCC	Sur Out	Problems
		Received	Analyzed				Init	Cont	IS	TCL	TIC			
910415-138 Trp Blnk	Low/ Water	4/16/91	4/23/91	16:53 W5765	10:10 Y0419 OK	15:57 W5764	4/19 OK	OK	**	1	3	OK	0	
910415-139 Fld Blnk	Low/ Water	4/16/91	4/22/91	19:48 W5760	10:22 Y0418 OK	16:07 W5756	4/19 OK	OK	**	0	0	OK	0	
910415-145	Low/ Soil	4/16/91	4/22/91	21:35 W5762	10:22 Y0418 OK	16:07 W5756	4/19 OK	OK	**	8	1	OK	2	
910415-145DL	Med/ Soil	4/16/91	4/26/91	15:55 V1517	9:51 BFB90 OK	12:00 V1514	4/19 OK	FAIL	**	1	NO TABLE	FAIL	0	
910415-153	Low/ Soil	4/16/91	4/23/91	17:46 W5766	10:10 Y0419 OK	15:57 W5764	4/19 OK	OK	**	0	2	OK	0	
910415-160	Low/ Soil	4/17/91	4/23/91	18:40 W5767	10:10 Y0419 OK	15:57 W5764	4/19 OK	OK	**	7	1	OK	1	
910415-160RR	Low/ Soil	4/17/91	4/24/91	14:57 W5772	9:34 Y0420 OK	13:51 W5771	4/19 OK	OK	**	4	1	OK	1	

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Project Name: Raybestos, Stratford, CT

Date: 7/18/91

Lab Name: EnviroTest Laboratories, Inc.

Reviewed By: Melinda Rozeton

Sample No.	Conc/ Matrix	DATE		Analysis Time/ File	Assoc'd Tune Time	Assoc'd Method Blank	Calibration			Hits*		No of SPCC	Sur Out	Problems
		Received	Analyzed				Init	Cont	IS	TCL	TIC			
910416-168	Low/ Soil	4/17/91	4/23/91								4	NO TABLE	NA	RESULTS ONLY - NO RAW DATA PROVIDED
910416-168RR	Low/ Soil	4/17/91	4/24/91	15:54 W5773	9:34 Y0420 OK	13:51 W5771	4/19 OK	OK	**	0	2	OK	0	
910416-181	Low/ Soil	4/17/91	4/23/91								1	NO TABLE	NA	RESULTS ONLY - NO RAW DATA PROVIDED
910416-181RR	Low/ Soil	4/17/91	4/23/91	17:09 W5774	9:34 Y0420 OK	13:51 W5771	4/19 OK	OK	**	1	3	OK	0	
910416-182 Fld Blnk	Low/ Water	4/17/91	4/22/91	17:08 W5757	10:22 Y0418 OK	16:07 W5756	4/19 OK	OK	**	0	2	OK	0	
910416-183 Trp Blnk	Low/ Water	4/17/91	4/22/91	18:01 W5758	10:22 Y0418 OK	16:07 W5756	4/19 OK	OK	**	0	0	OK	0	
910320-040 Fld Blnk	Low/ Water	3/23/91	3/28/91	17:47 V1191	9:40 8FB68 OK	15:37 V1189	3/11 OK	OK	**	0	3	OK	0	

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Project Name: Raybestos, Stratford, CT

Date: 7/18/91

Lab Name: EnviroTest Laboratories, Inc.

Reviewed By Melvin D. Rosebrown

Sample No.	Conc/ Matrix	DATE		Analysis Time/ File	Assoc'd Tune Time	Assoc'd Method Blank	Calibration			Hits*		No of SPCC	Sur Out	Problems
		Received	Analyzed				Init	Cont	IS	TCL	TIC			
910320-034	Low/ Soil	3/23/91	4/2/91	13:51 V1217	9:45 BFB71 OK	12:33 V1216	3/11 OK	OK	**	3	1	OK	0	
910320-025	Low/ Soil	3/23/91	4/1/91	17:37 V1209	10:25 BFB70 OK	16:43 V1208	3/11 OK	OK	**	1	2	OK	0	
910320-025MS	Low/ Soil	3/23/91	4/1/91	18:31 V1210	10:25 BFB70 OK	16:43 V1208	3/11 OK	OK	**	NO DATA	NO DATA	OK	0	
910320-025MSD	Low/ Soil	3/23/91	4/1/91	19:24 V1211	10:25 BFB70 OK	16:43 V1208	3/11 OK	OK	**	NO DATA	NO DATA	OK	1	
910320-039 Trp Blnk	Low/ Water	3/23/91	3/28/91	18:40 V1192	9:40 BFB68 OK	15:37 V1189	3/11 OK	OK	**	0	2	OK	0	
910321-058	Low/ Soil	3/22/91	4/4/91	19:11 W5688	11:19 Y0406 OK	14:57 W5684	4/2 OK	OK	**	5	7	OK	0	
910321-039 Trp Blnk	Low/ Water	3/22/91	3/28/91	16:53 V1190	9:40 BFB68 OK	15:37 V1189	3/11 OK	OK	**	0	0	OK	0	

Project Name: Raybestos, Stratford, CT

Date: 7/18/91

Lab Name: EnviroTest Laboratories, Inc.

Reviewed By Malvin D. Rozabon

Sample No.	Conc/ Matrix	DATE		Analysis Time/ File	Assoc'd Tune Time	Assoc'd Method Blank	Calibration			Hits*		No of SPCC	Sur Out	Problems
		Received	Analyzed				Init	Cont	IS	TCL	TIC			
910321-058DL	Med/ Soil	3/22/91	4/5/91	15:56 W5696	9:53 Y0407 OK	14:33 W5695	4/2 OK	OK	**	6	NO TABLE	OK	0	
910321-058MS	Med/ Soil	3/22/91	4/5/91	16:50 W5697	9:53 Y0407 OK	14:33 W5695	4/2 OK	OK	**	NO DATA	NO DATA	OK	0	
910321-058MSD	Med/ Soil	3/22/91	4/5/91	17:44 W5698	9:53 Y0407 OK	14:33 W5695	4/2 OK	OK	**	NO DATA	NO DATA	OK	0	
910321-054	Low/ Soil	3/22/91	4/5/91	18:37 W5699	9:53 Y0407 OK	14:33 W5695	4/2 OK	OK	**	5	8	OK	1	
910321-054DL	Low/ Soil	3/22/91	4/4/91	20:04 W5689	11:19 Y0406 OK	20:04 W5684	4/2 OK	OK	**	3	NO TABLE	OK	2	
910320-043	Low/ Soil	3/22/91	4/5/91	19:30 W5700	9:53 Y0407 OK	14:33 W5695	4/2 OK	OK	**	5	7	OK	2	
910320-043DL	Low/ Soil	3/22/91	4/4/91	20:58 W5690	11:19 Y0406 OK	14:33 W5695	4/2 OK	OK	**	2	NO TABLE	OK	1	

Contract Compliance Screening for Volatile Organics Page 10 of 11

Project Name: Raybestos, Stratford, CT

Date: 7/18/91

Lab Name: EnviroTest Laboratories, Inc.

Reviewed By *Melvin D. Roeborn*

Sample No.	Conc/ Matrix	DATE		Analysis Time/ File	Assoc'd Tune Time	Assoc'd Method Blank	Calibration			Hits*		No of SPCC	Sur Out	Problems
		Received	Analyzed				Init	Cont	IS	TCL	TIC			
910430-200	Low/ Water	5/1/91	5/10/91	17:44 W5844	11:45 Y0430 OK	16:50 W5843	5/3 OK	OK	**	0	0	OK	0	
910430-200MS	Low/ Water	5/1/91	5/10/91	16:02 W5854	9:14 Y0431 OK	14:41 W5853	5/3 OK	OK	**	NO DATA	NO DATA	OK	0	
910430-200MSD	Low/ Water	5/1/91	5/10/91	17:02 W5855	9:14 Y0431 OK	14:41 W5853	5/3 OK	OK	**	NO DATA	NO DATA	OK	0	
910430-201	Low/ Water	5/1/91	5/10/91	18:37 W5845	11:45 Y0430 OK	16:50 W5843	5/3 OK	OK	**	2	0	OK	0	
910430-202	Low/ Water	5/1/91	5/10/91	19:31 W5846	11:45 Y0430 OK	16:50 W5843	5/3 OK	OK	**	0	1	OK	0	
910430-203	Low/ Water	5/1/91	5/10/91	20:25 W5847	11:45 Y0430 OK	16:50 W5843	5/3 OK	OK	**	0	0	OK	0	
910430-204	Low/ Water	5/1/91	5/13/91	20:37 W5859	9:14 Y0431 OK	14:41 W5853	5/3 OK	OK	**	4	4	OK	0	

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Project Name: Raybestos, Stratford, CT

Date: 7/18/91

Lab Name: EnviroTest Laboratories, Inc.

Reviewed By Melvin D. Rojeboom

Sample No.	Conc/ Matrix	DATE		Analysis Time/ File	Assoc'd Tune Time	Assoc'd Method Blank	Calibration			Hits*		No of SPCC	Sur Out	Problems
		Received	Analyzed				Init	Cont	IS	TCL	TIC			
910430-205	Low/ Water	5/1/91	5/10/91	22:12 W5849	11:45 Y0430 OK	16:50 W5843	5/3 OK	OK	**	0	0	OK	0	
910430-206	Low/ Water	5/1/91	5/13/91	19:43 W5858	9:14 Y0431 OK	14:41 W5853	5/3 OK	OK	**	3	3	OK	0	
910430-207 Fld Blk	Low/ Water	5/1/91	5/13/91	17:56 W5856	9:14 Y0431 OK	14:41 W5853	5/3 OK	OK	**	0	1	OK	0	
910430-208 Trp Blk	Low/ Water	5/1/91	5/13/91	18:50 W5857	9:14 Y0431 OK	14:41 W5853	5/3 OK	OK	**	0	0	OK	0	

Project Name: Raybestos, Stratford, CT

Date: 7/18/91

Lab Name: EnviroTest Laboratories, Inc.

Reviewed By Melvin H. Rozeboom

Sample No.	Conc/ Matrix	DATE			Analysis Time/ File	Assoc'd Tune Time	Assoc'd Method Blank	Calibration			Hits*		No of SPCC	Sur Out	Problems
		Received	Extract	Analyzed				Init	Cont	IS	TCL	TIC			
910318-006	Low/ Soil	3/20/91	3/22/91	4/3/91	16:14 E4885	10:41 T9181 OK	16:50 E4892	4/2 OK	OK	**	0	15	OK	2	
910319-019	Low/ Soil	3/20/91	3/22/91	4/3/91	17:11 E4886	10:41 T9181 OK	16:50 E4892	4/2 OK	OK	**	2	20	OK	0	
910319-019MS	Low/ Soil	3/20/91	3/22/91	4/3/91	17:11 E4887	10:41 T9181 OK	16:50 E4892	4/2 OK	OK	**	NO DATA	NO DATA	OK	1	8 RECOVERIES OUT 3 RPDS OUT
910319-019MSD	Low/ Soil	3/20/91	3/22/91	4/3/91	17:11 E4888	10:41 T9181 OK	16:50 E4892	4/2 OK	OK	**	NO DATA	NO DATA	OK	2	9 RECOVERIES OUT 3 RPDS OUT
910319-027 Fld Blnk	Low/ Water	3/20/91	3/22/91	4/3/91	17:11 E4884	10:41 T9181 OK	16:50 E4892	4/2 OK	OK	**	0	4	OK	0	

Project Name: Raybestos, Stratford, CT

Date: 2/18/91

Lab Name: EnviroTest Laboratories, Inc.

Reviewed By Malcolm D. Royboon

Sample No.	Conc/ Matrix	DATE			Analysis Time/ File	Assoc'd Tune Time	Assoc'd Method Blank	Calibration			Hits*		No of SPCC	Sur Out	Problems
		Received	Extract	Analyzed				Init	Cont	IS	TCL	TIC			
910325-064	Low/ Soil	3/26/91	4/2/91	4/5/91	19:14 E4908	13:56 T9183 OK	18:36 E4894	4/2 OK	OK	**	2	21	OK	0	
910325-064MS	Low/ Soil	3/26/91	4/2/91	4/4/91	0:59 E4901	15:22 T9182 OK	18:36 E4894	4/2 OK	OK	**	NO DATA	NO DATA	OK	0	2 RECOVERIES OUT 2 RPDS OUT
910325-064MSD	Low/ Soil	3/26/91	4/2/91	4/4/91	1:54 E4902	15:22 T9182 OK	18:36 E4894	4/2 OK	OK	**	NO DATA	NO DATA	OK	0	2 RECOVERIES OUT 2 PRDS OUT
910325-081 Fld Blnk	Low/ Water	3/26/91	3/27/91	4/3/91	14:18 E4883	10:41 T9181 OK	13:24 E4882	4/2 OK	OK	**	0	2	OK	0	
910325-071	Low/ Soil	3/28/91	4/2/91	4/6/91	0:03 E4913	13:56 T9183 OK	18:36 E4894	4/2 OK	OK	**	2	15	OK	0	
910325-075	Low/ Soil	3/28/91	4/2/91	4/6/91	1:01 E4914	13:56 T9183 OK	18:36 E4894	4/2 OK	OK	**	2	14	OK	0	

Project Name: Raybestos, Stratford, CT

Date: 2/18/91

Lab Name: EnviroTest Laboratories, Inc.

Reviewed By Melvin W. Ryboon

Sample No.	Conc/ Matrix	DATE			Analysis Time/ File	Assoc'd Tune Time	Assoc'd Method Blank	Calibration			Hits*		No of SPCC	Sur Out	Problems
		Received	Extract	Analyzed				Init	Cont	IS	TCL	TIC			
910326-084	Low/ Soil	3/27/91	4/2/91	4/5/91	2:48 E4903	15:22 T9182 OK	18:36 E4894	4/2 OK	OK	**	5	19	OK	4	3 EXTRA ANALYSES NOT INCLUDED IN PACKAGE - MATRIX
910326-084RE	Low/ Soil	3/27/91	4/11/91	4/11/91	13:43 E4947	11:04 T9189 OK	12:38 E4946	4/2 OK	OK	**	6	21	OK	2	
910326-084RE RR	Low/ Soil	3/27/91	4/11/91	4/18/91	14:52 E4991	13:06 T9100 OK	12:38 E4946	4/2 OK	OK	**	3	NO TABLE	OK	2	
910326-092	Med/ Soil	3/27/91	4/2/91	4/5/91	20:12 E4909	13:56 T9183 OK	18:36 E4894	4/2 OK	OK	**	0	19	OK	0	
910326-099	Low/ Soil	3/27/91	4/2/91	4/9/91	14:17 E4930	11:42 T9186 OK	18:36 E4894	4/2 OK	OK	**	4	21	OK	0	
910327-101	Low/ Soil	3/28/91	4/10/91	4/11/91	15:42 E4949	11:04 T9189 OK	14:43 E4948	4/2 OK	OK	**	1	13	OK	0	

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Project Name: Raybestos, Stratford, CT

Date: 7/18/91

Lab Name: EnviroTest Laboratories, Inc.

Reviewed By Melvin D. Rozeboom

Sample No.	Conc/ Matrix	DATE			Analysis Time/ File	Assoc'd Tune Time	Assoc'd Method Blank	Calibration			Hits*		No of SPCC	Sur Out	Problems
		Received	Extract	Analyzed				Init	Cont	IS	TCL	TIC			
910327-122	Low/ Soil	3/28/91	4/2/91	4/9/91	16:19 E4932	11:42 T9186 OK	18:36 E4894	4/2 OK	OK	**	6	21	OK	1	
910327-122DL	Med/ Soil	3/28/91	4/2/91	4/9/91	18:22 E4934	11:42 T9186 OK	18:36 E4894	4/2 OK	OK	**	5	NO TABLE	OK	1	
910327-122DL	Med/ Soil	3/28/91	4/2/91	4/9/91	19:21 E4935	11:42 T9186 OK	18:36 E4894	4/2 OK	OK	**	3	NO TABLE	OK	0	
910327-134 Fld Blnk	Low/ Water	3/28/91	4/2/91	4/9/91	13:16 E4929	11:42 T9186 OK	18:36 E4894	4/2 OK	OK	**	0	2	OK	1	
910320-040 Fld Blnk	Low/ Soil	3/23/91	4/2/91	4/4/91	19:31 E4895	15:22 T9182 OK	13:24 E4882	4/2 OK	OK	**	0	3	OK	0	
910320-034	Low/ Soil	3/23/91	4/2/91	4/4/91	20:25 E4896	15:22 T9182 OK	13:24 E4882	4/2 OK	OK	**	1	14	OK	0	
910320-025	Low/ Soil	3/23/91	4/2/91	4/4/91	21:20 E4897	15:22 T9182 OK	13:24 E4882	4/2 OK	OK	**	0	3	OK	0	

Project Name: Raybestos, Stratford, CT

Date: 7/18/91

Lab Name: EnviroTest Laboratories, Inc.

Reviewed By Melvin D. Roseboom

Sample No.	Conc/ Matrix	DATE			Analysis Time/ File	Assoc'd Tune Time	Assoc'd Method Blank	Calibration			Hits*		No of SPCC	Sur Out	Problems
		Received	Extract	Analyzed				Init	Cont	IS	TCL	TIC			
910321-058	Med/ Soil	3/22/91	3/27/91	4/3/91	20:02 E4889	10:41 T9181 OK	13:24 E4882	4/2 OK	OK	**	5	19	OK	1	
910321-058DL	Med/ Soil	3/22/91	3/27/91	4/4/91	17:41 E4893	15:22 T9182 OK	13:24 E4882	4/2 OK	OK	**	5	NO TABLE	OK	1	
910321-054	Low/ Soil	3/22/91	3/27/91	4/3/91	20:59 E4890	10:41 T9181 OK	13:24 E4882	4/2 OK	OK	**	14	22	OK	1	
910320-043	Low/ Soil	3/22/91	3/27/91	4/3/91	21:56 E4891	10:41 T9181 OK	13:24 E4882	4/2 OK	OK	**	11	20	OK	0	
910320-043MS	Low/ Soil	3/22/91	3/27/91	4/3/91	22:15 E4898	15:22 T9182 OK	13:24 E4882	4/2 OK	OK	**	NO DATA	NO DATA	OK	1	10 RECOVERIES OUT 2 RPDS OUT
910320-043MSD	Low/ Soil	3/22/91	3/27/91	4/3/91	23:10 E4899	15:22 T9182 OK	13:24 E4882	4/2 OK	OK	**	NO DATA	NO DATA	OK	1	8 RECOVERIES OUT 2 RPDS OUT

Project Name: Raybestos, Stratford, CT

Date: 7/18/91

Lab Name: EnviroTest Laboratories, Inc.

Reviewed By *Malcolm W. Pzyboon*

Sample No.	Conc/ Matrix	DATE			Analysis Time/ File	Assoc'd Tune Time	Assoc'd Method Blank	Calibration			Hits*		No of SPCC	Sur Out	Problems
		Received	Extract	Analyzed				Init	Cont	IS	TCL	TIC			
910328-131	Med/ Soil	3/29/91	4/9/91	4/16/91	19:07 E4973	10:44 T9193 OK	23:36 E4964	4/2 OK	OK	**	6	16	OK	1	
910328-131DL	Med/ Soil	3/29/91	4/9/91	4/19/91	16:19 E5002	14:30 T9102 OK	23:36 E4964	4/2 OK	OK	**	2	NO TABLE	OK	D	
910327-137	Low/ Soil	4/3/91	4/9/91	4/11/91	17:42 E4951	11:04 T9189 OK	23:36 E4964	4/2 OK	OK	**	0	2	OK	0	
910327-137MS	Low/ Soil	4/3/91	4/9/91	4/11/91	18:41 E4952	11:04 T9189 OK	23:36 E4964	4/2 OK	OK	**	NO DATA	NO DATA	OK	0	3 RECOVERIES OUT
910327-137MSD	Low/ Soil	4/3/91	4/9/91	4/16/91	0:33 E4965	13:09 T9191 OK	23:36 E4964	4/2 OK	OK	**	NO DATA	NO DATA	OK	0	1 RECOVERY OUT
910415-139 Fld Blk	Low/ Water	4/16/91	4/22/91	5/8/91	14:45 E5124	11:36 T9136 OK	13:44 E5123	5/7 OK	OK	**	0	3	OK	1	NOT LISTED ON TUNE FORM
910415-145	Low/ Soil	4/16/91	4/22/91	5/8/91	22:06 E5132	11:36 T9136 OK	13:44 E5123	5/7 OK	OK	**	2	21	OK	1	NOT LISTED ON TUNE FORM

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Project Name: Raybestos, Stratford, CT

Date: 7/18/91

Lab Name: EnviroTest Laboratories, Inc.

Reviewed By Melvin D. Robinson

Sample No.	Conc/ Matrix	DATE			Analysis Time/ File	Assoc'd Tune Time	Assoc'd Method Blank	Calibration			Hits*		No of SPCC	Sur Out	Problems
		Received	Extract	Analyzed				Init	Cont	IS	TCL	TIC			
910415-153	Low/ Soil	4/16/91	4/22/91	5/8/91	19:18 E5129	11:36 T9136 OK	13:44 E5123	5/7 OK	OK	**	0	9	OK	0	NOT LISTED ON TUNE FORM
910415-153MS	Low/ Soil	4/16/91	4/22/91	5/8/91	17:25 E5127	11:36 T9136 OK	13:44 E5123	5/7 OK	OK	**	NO DATA	NO DATA	OK	0	2 RECOVERIES OUT
910415-153MSD	Low/ Soil	4/16/91	4/22/91	5/8/91	18:22 E5128	11:36 T9136 OK	13:44 E5123	5/7 OK	OK	**	NO DATA	NO DATA	OK	0	2 RECOVERIES OUT
910415-153RR	Low/ Soil	4/16/91	4/22/91	5/9/91	16:50 E5142	14:20 T9139 OK	13:44 E5123	5/7 OK	OK	**	0	NO TABLE	OK	0	NOT LISTED ON TUNE FORM
910415-160	Low/ Soil	4/17/91	4/22/91	5/9/91	17:47 E5143	14:20 T9139 OK	13:44 E5123	5/7 OK	OK	**	5	22	OK	0	NOT LISTED ON BLANK FORM REPEATED ANALYSIS
910416-168	Low/ Soil	4/17/91	4/22/91	5/8/91	21:10 E5131	11:36 T9136 OK	13:44 E5123	5/7 OK	OK	**	0	17	OK	0	NOT LISTED ON BLANK FORM. MIS-LABEL ON TUNE & IN RAW DATA??
910416-181	Low/ Soil	4/17/91	4/22/91	5/8/91	15:36 E5125	11:36 T9136 OK	13:44 E5123	5/7 OK	OK	**	0	4	OK	0	NOT LISTED ON BLANK FORM

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Project Name: Raybestos, Stratford, CT

Date: 7/18/91

Lab Name: EnviroTest Laboratories, Inc.

Reviewed By Melvin D. Rozeboom

Sample No.	Conc/ Matrix	DATE			Analysis Time/ File	Assoc'd Tune Time	Assoc'd Method Blank	Calibration			Hits*		No of SPCC	Sur Out	Problems
		Received	Extract	Analyzed				Init	Cont	IS	TCL	TIC			
910416-181RR	Low/ Soil	4/17/91	4/22/91	5/9/91	15:53 E5141	14:20 T9139 OK	13:44 E5123	5/7 OK	OK	**	0	NO TABLE	OK	0	NOT LISTED ON BLANK FORM
910416-182 Fld Blnk	Low/ Soil	4/17/91	4/22/91	5/8/91	16:28 E5126	11:36 T9136 OK	13:44 E5123	5/7 OK	OK	**	0	3	OK	0	NOT LISTED ON BLANK FORM

Project Name: Raybestos, Stratford, CT

Date: 7/19/91

Lab Name: EnviroTest Laboratories, Inc.

Reviewed By Melvin D. Johnson

Sample No.	Conc/Matrix	DATE		Column 1 DB-1701 CAP				Column 2 DB-608 CAP				# of Hits*	Problems
		Received	Extract	Analysis Date	Assoc'd Blank	Calibration Init	Cont	Analysis Date	Assoc'd Blank	Calibration Init	Cont		
910318-006	Low/Soil	3/20/91	3/22/91	4/23/91	4/23/91 21:38	OK	OK	4/23/91	4/23/91 21:41	OK	OK	2	
910319-019	Low/Soil	3/20/91	3/22/91	4/23/91	4/23/91 21:38	OK	OK	4/23/91	4/23/91 21:41	OK	OK	2	
910319-019MS	Low/Soil	3/20/91	3/22/91	4/25/91	4/23/91 21:38	OK	FAIL	4/25/91	4/23/91 21:41	OK	FAIL	NO DATA	4 RECOVERIES OUT 4 RPDS OUT
910319-019MSD	Low/Soil	3/20/91	3/22/91	4/25/91	4/23/91 21:38	OK	FAIL	4/25/91	4/23/91 21:41	OK	FAIL	NO DATA	4 RECOVERIES OUT 4 RPDS OUT
910319-027 Fld Blnk	Low/Soil	3/20/91	3/22/91	4/23/91	4/23/91 21:38	OK	OK	4/23/91	4/23/91	OK	OK	0	

Project Name: Raybestos, Stratford, CT

Date: 2/58/91

Lab Name: EnviroTest Laboratories, Inc.

Reviewed By Yelva D. Roseboom

Sample No.	Conc/Matrix	DATE		Column 1 DB-1701 CAP				Column 2 DB-608 CAP				# of Hits*	Problems			
		Received	Extract	Analysis Date	Time	Assoc'd Blank	Calibration Init	Cont	Analysis Date	Time	Assoc'd Blank			Calibration Init	Cont	
910325-064	Low/Soil	3/26/91	4/2/91	4/24/91		4/24/91	7:15	OK	OK	4/24/91	4/24/91	7:18	OK	OK	1	
910325-064MS	Low/Soil	3/26/91	4/2/91	4/25/91		4/24/91	7:15	OK	FAIL	4/25/91	4/24/91	7:18	OK	FAIL	1	
910325-064MSD	Low/Soil	3/26/91	4/2/91	4/25/91		4/24/91	7:15	OK	FAIL	4/25/91	4/24/91	7:18	OK	FAIL	1	
910325-081 Fld Blk	Low/Soil	3/26/91	3/27/91	4/24/91		4/24/91	0:02	OK	OK	4/24/91	4/24/91	7:18	OK	OK	0	
910325-071	Low/Soil	3/28/91	4/2/91	4/25/91		4/24/91	7:15	OK	FAIL	4/25/91	4/24/91	7:18	OK	FAIL	2	
910325-075	Low/Soil	3/28/91	4/2/91	4/25/91		4/24/91	7:15	OK	FAIL	4/25/91	4/24/91	7:18	OK	FAIL	NO DATA	NO RESULTS PAGE
910325-075DL	Low/Soil	3/28/91	4/2/91	4/25/91		4/24/91	7:15	OK	FAIL	4/25/91	4/24/91	7:18	OK	FAIL	2	

Project Name: Raybestos, Stratford, CT

Date: 7/18/91

Lab Name: EnviroTest Laboratories, Inc.

Reviewed By Melvin D. Roeborn

Sample No.	Conc/Matrix	DATE		Column 1 DB-1701 CAP				Column 2 DB-608 CAP				# of Hits*	Problems
		Received	Extract	Analysis Date	Assoc'd Blank	Calibration Init	Cont	Analysis Date	Assoc'd Blank	Calibration Init	Cont		
910326-084	Low/Soil	3/27/91	4/2/91	4/24/91	4/24/91 7:15	OK	OK	4/24/91	4/24/91 7:18	OK	OK	2	NO RESULTS PAGE
910326-084DL	Low/Soil	3/27/91	4/2/91	4/25/91	4/24/91 7:15	OK	FAIL	4/25/91	4/24/91 7:18	OK	FAIL	2	
910326-092	Low/Soil	3/27/91	4/2/91	4/24/91	4/24/91 7:15	OK	OK	4/24/91	4/24/91 7:18	OK	OK	1	
910326-099	Low/Soil	3/27/91	4/2/91	4/24/91	4/24/91 7:15	OK	OK	4/24/91	4/24/91 7:18	OK	OK	1	
910327-101	Low/Soil	3/28/91	4/10/91	4/24/91	4/24/91 7:15	OK	OK	4/24/91	4/24/91 7:18	OK	OK	2	NO RESULTS PAGE
910327-101DL	Low/Soil	3/28/91	4/10/91	4/25/91	4/24/91 7:15	OK	FAIL	4/25/91	4/24/91 7:18	OK	FAIL	2	
910327-122	Med/Soil	3/28/91	4/2/91	4/25/91	4/24/91 7:15	OK	FAIL	4/25/91	4/24/91 7:18	OK	FAIL	2	

Project Name: Raybestos, Stratford, CT

Date: 7/18/91

Lab Name: EnviroTest Laboratories, Inc.

Reviewed By Melvin D. Rozeboom

Sample No.	Conc/ Matrix	DATE		Column 1 DB-1701 CAP				Column 2 DB-608 CAP				# of Hits*	Problems
		Received	Extract	Analysis Date	Assoc'd Blank	Calibration Init	Cont	Analysis Date	Assoc'd Blank	Calibration Init	Cont		
910327-134 Fld Blk	Low/Water	3/28/91	4/2/91	4/24/91	4/24/91 7:15	OK	OK	4/24/91	4/24/91 7:18	OK	OK	0	
910320-040 Fld Blk	Low/Water	3/23/91	3/27/91	4/24/91	4/24/91 7:15	OK	OK	4/24/91	4/24/91 7:18	OK	OK	0	
910320-034	Low/Soil	3/23/91	3/27/91	4/24/91	4/24/91 7:15	OK	OK	4/24/91	4/24/91 7:18	OK	OK	2	
910320-025	Low/Soil	3/23/91	3/27/91	4/24/91	4/24/91 7:15	OK	OK	4/24/91	4/24/91 7:18	OK	OK	0	
910321-058	Med/Soil	3/22/91	3/27/91	4/24/91	4/24/91 7:15	OK	OK	4/24/91	4/24/91 7:18	OK	OK	2	NO RESULTS PAGE
910321-058DL	Med/Soil	3/22/91	3/27/91	4/25/91	4/24/91 7:15	OK	OK	4/25/91	4/24/91 7:18	OK	OK	2	

Project Name: Raybestos, Stratford, CT

Date: 7/18/91

Lab Name: EnviroTest Laboratories, Inc.

Reviewed By Yehon Olozebor

Sample No.	Conc/Matrix	DATE		Column 1 DB-1701 CAP				Column 2 DB-608 CAP				# of Hits*	Problems			
		Received	Extract	Analysis Date	Time	Assoc'd Blank	Calibration Init	Cont	Analysis Date	Time	Assoc'd Blank			Calibration Init	Cont	
910321-054	Low/Soil	3/22/91	3/27/91	4/24/91		4/24/91	7:15	OK	OK	4/24/91	4/24/91	7:18	OK	OK	2	NO RESULTS PAGE
910321-054DL	Low/Soil	3/22/91	3/27/91	4/25/91		4/24/91	7:15	OK	FAIL	4/25/91	4/24/91	7:18	OK	FAIL	2	
910321-054MS	Low/Soil	3/22/91	3/27/91	4/25/91		4/24/91	7:15	OK	FAIL	4/25/91	4/24/91	7:18	OK	FAIL	NO DATA	5 RECOVERIES OUT 5 RPDS OUT
910321-054MSD	Low/Soil	3/22/91	3/27/91	4/25/91		4/24/91	7:15	OK	FAIL	4/25/91	4/24/91	7:18	OK	FAIL	NO DATA	4 RECOVERIES OUT 5 RPDS OUT
910320-043	Low/Soil	3/22/91	3/27/91	4/24/91		4/24/91	7:15	OK	OK	4/24/91	4/24/91	7:18	OK	OK	2	NO RESULTS PAGE NOT ON SURROGAT RECOVERY FORM
910320-043DL	Low/Soil	3/22/91	3/27/91	4/25/91		4/24/91	7:15	OK	FAIL	4/25/91	4/24/91	7:18		FAIL	2	NOT ON SURROGAT RECOVERY FORM

Project Name: Raybestos, Stratford, CT

Date: 7/18/91

Lab Name: EnviroTest Laboratories, Inc.

Reviewed By *Malcolm D. Rozeboom*

Sample No.	Conc/Matrix	DATE		Column 1 DB-1701 CAP				Column 2 DB-608 CAP				# of Hits	Problems		
		Received	Extract	Analysis Date	Time	Assoc'd Blank	Calibration Init	Cont	Analysis Date	Time	Assoc'd Blank			Calibration Init	Cont
910328-131	Med/Soil	3/29/91	4/9/91	5/8/91		5/2/91 18:27	OK	OK	5/8/91		5/2/91 18:29	OK	OK	2	NO RESULTS PAGE
910328-131DL	Med/Soil	3/29/91	4/9/91	5/3/91		5/2/91 18:27	OK	OK	5/3/91		5/2/91 18:29	OK	FAIL	2	
910327-137	Low/Soil	4/3/91	4/9/91	5/3/91		5/2/91 18:27	OK	OK	5/3/91		5/2/91 18:29	OK	OK	0	
910327-137MS	Low/Soil	4/3/91	4/9/91	5/3/91		5/2/91 18:27	OK	OK	5/3/91		5/2/91 18:29	OK	OK	NO DATA	1 RECOVERY OUT 6 RPDS OUT
910327-137MSD	Low/Soil	4/3/91	4/9/91	5/3/91		5/2/91 18:27	OK	OK	5/3/91		5/2/91 18:29	OK	OK	NO DATA	3 RECOVERIES OU 6 RPDS OUT
910415-139 Fld Blnk	Low/Water	4/16/91	4/22/91	5/2/91		5/2/91 15:27	OK	OK	5/2/91		5/2/91 18:29	OK	OK	0	

Project Name: Raybestos, Stratford, CT

Date: 7/18/91

Lab Name: EnviroTest Laboratories, Inc.

Reviewed By Yelverton Rozeboom

Sample No.	Conc/ Matrix	DATE		Column 1 DB-1701 CAP				Column 2 DB-608 CAP				# of Hits	Problems
		Received	Extract	Analysis Date	Assoc'd Blank	Calibration		Analysis Date	Assoc'd Blank	Calibration			
				Time		Init	Cont	Time		Init	Cont		
910415-145	Low/Soil	4/16/91	4/22/91	5/3/91	5/2/91 15:27	OK	OK	5/3/91	5/2/91 15:29	OK	OK	NO DATA	NO RESULTS PAGE
910415-145DL	Low/Soil	4/16/91	4/22/91	5/3/91	5/2/91 15:27	OK	OK	5/3/91	5/2/91 15:29	OK	OK	2	
910415-153	Low/Soil	4/16/91	4/22/91	5/3/91	5/2/91 15:27	OK	OK	5/3/91	5/2/91 15:29	OK	OK	NO DATA	NO RESULTS PAGE
910415-153DL	Low/Soil	4/16/91	4/22/91	5/3/91	5/2/91 15:27	OK	OK	5/3/91	5/2/91 15:29	OK	OK	2	
910415-160	Low/Soil	4/17/91	4/22/91	5/3/91	5/2/91 15:27	OK	OK	5/3/91	5/2/91 15:29	OK	OK	2	
910415-160MS	Low/Soil	4/17/91	4/22/91	5/3/91	5/2/91 15:27	OK	OK	5/3/91	5/2/91 15:29	OK	OK	NO DATA	3 RECOVERIES OUT 3 RPDS OUT
910415-160MSD	Low/Soil	4/17/91	4/22/91	5/3/91	5/2/91 15:27	OK	OK	5/3/91	5/2/91 15:29	OK	OK	NO DATA	3 RECOVERIES OUT 3 RPDS OUT

Project Name: Raybestos, Stratford, CT

Date: 7/18/91

Lab Name: EnviroTest Laboratories, Inc.

Reviewed By: *Yelvin D. Rozeboom*

Sample No.	Conc/Matrix	DATE		Column 1 DB-1701 CAP				Column 2 DB-608 CAP				# of Hits	Problems		
		Received	Extract	Analysis Date	Time	Assoc'd Blank	Calibration Init	Cont	Analysis Date	Time	Assoc'd Blank			Calibration Init	Cont
910416-168	Low/Soil	4/17/91	4/22/91	5/3/91		5/2/91 15:27	OK	OK	5/3/91		5/2/91 15:29	OK	OK	2	
910416-181	Low/Soil	4/17/91	4/22/91	5/2/91		5/2/91 15:27	OK	OK	5/3/91		5/2/91 15:29	OK	OK	0	
910416-182 Fld Blnk	Low/Water	4/17/91	4/22/91	5/2/91		5/2/91 15:27	OK	OK	5/3/91		5/2/91 15:29	OK	OK	0	

ATTACHMENT B

Calibration

Volatile

Due to poor response for methylene chloride and the gases an additional standard at 50ug/l was analyzed and the response factors inserted in the continuing calibrations of 3/26/91, and 3/27/91.

Due to poor response for the gases in the initial calibration of 3/12/91, additional standards at 100ug/l, 150ug/l, and 200ug/l were analyzed and their response factors inserted in the initial calibration.

Surrogate Recovery

Volatile

The following (GC/MS) volatile sample analyses contained surrogate recoveries outside acceptable control limits:

910318-006MSD: Toluene-d8

Semi-Volatile

The following semi-volatile sample analyses contained surrogate recoveries outside acceptable control limits:

910318-006: 2-fluorobiphenyl and phenol-d5

910319-019MSD: 2-fluorobiphenyl and 2-fluorophenol

Detection Limit

Volatile

The following samples were analyzed at the indicated dilutions due to matrix interference:

910319-019: 1000x

The following samples were re-analyzed due to the presence of compounds that exceed the linear calibration range:

910318-006: 100x

Semi-volatiles

The following samples have elevated detection limits due to matrix interference:

910318-006: initial weight 10g; sample unable to be concentrated below a final volume of 5mls.

910319-019: initial weight 10g; sample unable to be concentrated below a final volume of 5mls.

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PCEs

The following samples were analyzed at the indicated dilutions due to matrix interference:

910318-006: 50x
910319-019: 20x

The following samples have elevated detection limits due to matrix interference:

910318-006: initial weight 5g
910319-019: initial weight 5g

Calibration

Volatile

Due to poor response for methylene chloride and the gases an additional standard at 50ug/l was analyzed and the response factors inserted in the continuing calibrations of 3/28/91, and 4/5/91.

Due to poor response for the gases in the initial calibration of 4/2/91, additional standards at 100ug/l, 150ug/l, and 200ug/l were analyzed and their response factors inserted in the initial calibration.

Surrogate Recovery

Volatile

The following (GC/MS) volatile sample analyses contained surrogate recoveries outside acceptable control limits:

910320-040: Toluene-d8

910321-014 x 100: 4-Bromofluorobenzene and toluene-d8

910321-014 x 50: toluene-d8 - *should be 90321-054*

910320-015 x 100: 4-Bromofluorobenzene and toluene-d8] *should be*

910320-015: 4-Bromofluorobenzene

910320-0

Detection Limit

Volatile

The following samples were analyzed at the indicated dilutions due to matrix interference:

910321-058: 50x

910321-054: 50x

910320-043: 100x and 50x

The following samples were re-analyzed due to the presence of compounds that exceed the linear calibration range:

910321-058: 100x

910321-054: 100x

Semi-volatiles

The following samples were analyzed at the indicated dilutions due to matrix interference:

910321-058: 5x

910321-054: 5x

910320-043: 5x

The following samples were re-analyzed due to the presence of compounds that exceed the linear calibration range:

910321-058: 25x

CASE NARRATIVE
ESE PROJECT RAYBESTOS
EnviroTest Laboratory # 97456/97483
5/7/91

The following samples have elevated detection limits due to matrix interference:

910321-054: sample unable to be concentrated below a final volume of 5mls.

910320-043: sample unable to be concentrated below a final volume of 5mls.

910321-058: initial weight 5g; sample unable to be concentrated below a final volume of 5mls.

910320-034: initial weight 10g; sample unable to be concentrated below a final volume of 10mls.

PCBs

The following samples were analyzed at the indicated dilutions due to matrix interference:

910321-054: 10x

910320-043: 10x

910321-058: 500x

The following samples were re-analyzed due to the presence of compounds that exceed the linear calibration range:

910321-058: 1000x

910321-054: 100x

910320-043: 50x

The following samples have elevated detection limits due to matrix interference:

910321-058: initial weight 5g

CASE NARRATIVE
ESE PROJECT RAYEESTOS
EnviroTest Laboratory # 97529
5/9/91

Calibration

Volatile

Due to poor response for the gases, an additional standard at 50ug/l was analyzed and the response factors inserted in the continuing calibration of 4/4/91.

Due to poor response for the gases in the initial calibration of 3/11/91, additional standards at 100ug/l, 150ug/l, and 200ug/l were analyzed and their response factors inserted in the initial calibration.

Surrogate Recovery

Volatile

The following (GC/MS) volatile sample analyses contained surrogate recoveries outside acceptable control limits:

910325-064: Toluene-d8

Detection Limit

Volatile

The following samples were analyzed at the indicated dilutions due to matrix interference:

910325-064: 10x

The following samples were re-analyzed due to the presence of compounds that exceed the linear calibration range:

910325-064: 100x

Semi-volatiles

The following samples have elevated detection limits due to matrix interference:

910325-064: initial weight 5g; sample unable to be concentrated below a final volume of 5mls.

PCBs

The following samples were analyzed at the indicated dilutions due to matrix interference:

910325-064: 200x

The following samples have elevated detection limits due to matrix interference:

910325-064: initial weight 5g

CASE NARRATIVE
ESE PROJECT RAYBESTOS
EnviroTest Laboratory # 97583
5/9/91

Calibration

Volatile

Due to poor response for the gases, an additional standard at 50ug/l was analyzed and the response factors inserted in the continuing calibration of 4/5/91.

Due to poor response for the gases and methylene chloride in the initial calibration of 3/11/91, additional standards at 50ug/l, 100ug/l, 150ug/l, and 200ug/l were analyzed and their response factors inserted in the initial calibration.

Due to poor response for the gases in the initial calibration of 4/2/91, additional standards were analyzed at 100ug/l, 150ug/l, and 200ug/l and their response factors inserted in the initial calibration.

Surrogate Recovery

Volatile

The following volatile sample analyses contained surrogate recoveries outside acceptable control limits:

910326-092: Toluene-d8
910326-084 x1000: Toluene-d8

Semi-volatile

The following semi-volatile analyses contained surrogate recoveries outside acceptable control limits:

910326-084: nitrobenzene-d5, 2-fluorobiphenyl, terphenyl-d14, phenol-d5.

The re-injection of sample 910326-084 also resulted in unacceptable surrogate recoveries. The sample was re-extracted. The re-extraction surrogate recoveries that fell outside acceptable control limits are as follows:

910326-084RE: 2-fluorobiphenyl and 2-fluorophenol.
910326-084RE DL: nitrobenzene-d5 and 2-fluorobiphenyl.

Detection Limit

Volatile

The following samples were analyzed at the indicated dilutions due to matrix interference:

910326-084: 10x
910326-092: 10x
910326-099: 10x

The following samples were re-analyzed due to the presence of compounds that exceed the linear calibration range:

910326-084: 1000x
910326-092: 50x
910326-099: 500x

Semi-volatiles

The following samples have elevated detection limits due to matrix interference:

- 910326-084: initial weight 10g; sample unable to be concentrated below a final volume of 5mls.
- 910326-092: initial weight 10g; sample unable to be concentrated below a final volume of 6mls.
- 910326-099: initial weight 10g; sample unable to be concentrated below a final volume of 5mls.

PCPs

The following samples were analyzed at the indicated dilutions due to matrix interference:

- 910326-084: 50x (re-run at 200x on DB608 column)
- 910326-092: 20x
- 910326-099: 20x

The following samples have elevated detection limits due to matrix interference:

- 910326-084: initial weight 10g
- 910326-092: initial weight 10g
- 910326-099: initial weight 10g

Holding Time

The semi-volatile re-extraction for sample number 910326-084 was extracted past the acceptable holding time.

Calibration

Volatile

Due to poor response for the gases, additional standards at 50ug/l were analyzed and the response factors inserted in the continuing calibrations of 4/9/91 and 4/10/91. Due to poor response for methylene chloride, an additional standard at 50ug/l was analyzed and the response factors inserted in the continuing calibration of 4/9/91. Due to poor response for the gases and methylene chloride in the initial calibration of 3/11/91, additional standards at 50ug/l, 100ug/l, 150ug/l, and 200ug/l were analyzed and their response factors inserted in the initial calibration.

Surrogate Recovery

Semi-volatile

Semi-volatile sample number 910327-122 surrogate recoveries were unavailable due to sample dilution.

Detection Limit

Volatile

The following samples were analyzed at the indicated dilutions due to matrix interference:

910327-122: 100x

The following samples were re-analyzed due to the presence of compounds that exceed the linear calibration range:

910327-122: 2000x

Semi-volatiles

The following samples have elevated detection limits due to matrix interference:

910327-101: initial weight 15g; sample unable to be concentrated below a final volume of 5mls.

910327-122: initial weight 5g; sample unable to be concentrated below a final volume of 5mls.

The following samples were re-analyzed due to the presence of compounds that exceed the linear calibration range:

910327-122: 25x

910327-122: 100x

PCBs

The following samples were analyzed at the indicated dilutions due to matrix interference:

910327-101: 20x (re-run at 50x on DB1701 column)

910327-122: 1000x

The following samples have elevated detection limits due to matrix interference:

910327-101: initial weight 15g

910326-122: initial weight 5g

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Calibration

Volatile

Due to poor response for the gases, an additional standard at 50ug/l was analyzed and the response factors inserted in the continuing calibration of 4/8/91.

Due to poor response for the gases and methylene chloride in the initial calibration of 3/11/91, additional standards at 50ug/l, 100ug/l, 150ug/l, and 200ug/l were analyzed and their response factors inserted in the initial calibration.

Due to poor response for the gases in the initial calibration of 4/2/91, additional standards at 100ug/l, 150ug/l, and 200ug/l were analyzed and their response factors inserted in the initial calibration.

Detection Limit

Volatile

The following samples were analyzed at the indicated dilutions due to matrix interference:

910325-071: 50x

Semi-volatiles

The following samples have elevated detection limits due to matrix interference:

910325-071: initial weight 10g; sample unable to be concentrated below a final volume of 6mls.

910325-075: initial weight 5g; sample unable to be concentrated below a final volume of 5mls.

PCBs

The following samples were analyzed at the indicated dilutions due to matrix interference:

910325-071: 20x

910325-075: 100x (Re-run at 200x due to compounds that exceed the linear calibration range)

The following samples have elevated detection limits due to matrix interference:

910325-071: initial weight 10g

910325-075: initial weight 5g

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Calibration

Volatile

Due to poor response for the gases, an additional standard at 50ug/l was analyzed and the response factors inserted in the continuing calibrations of 4/11/91 and 4/22/91.

Due to poor response for the gases and HSL compounds, an additional standard at 50ug/l was analyzed and the response factors inserted in the continuing calibration of 4/24/91.

Due to poor response for the gases in the initial calibrations of 3/11/91 and 4/19/91, additional standards at 50ug/l, 100ug/l, 150ug/l, and 200ug/l were analyzed and their response factors inserted in the initial calibration.

Due to poor response for the gases in the initial calibration of 4/2/91, additional standards were analyzed at 100ug/l, 150ug/l, and 200ug/l and their response factors inserted in the initial calibration.

Surrogate Recovery

Volatile

The following volatile sample analyses contained surrogate recoveries outside acceptable control limits:

910415-160: Toluene-d8

910415-160RR: Toluene-d8

910415-145: Toluene-d8 and 1,2-Dichloroethane-d4

Semi-volatile

The following semi-volatile analyses contained surrogate recoveries outside acceptable control limits:

910328-131: all surrogates were diluted out.

Detection Limit

Volatile

The following samples were re-analyzed due to the presence of compounds that exceed the linear calibration range:

910328-131: 100x

Semi-volatile

910328-131: 500x

Semi-volatiles

The following samples have elevated detection limits due to matrix interference:

910415-145: Sample unable to be concentrated below a final volume of 10mls.

910415-153: Sample unable to be concentrated below a final volume of 5mls.

910416-168: Sample unable to be concentrated below a final volume of 5mls.

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910328-131: Initial weight 5g; sample unable to be concentrated below a final volume of 5mls.

PCBs

The following samples were analyzed at the indicated dilutions due to matrix interference:

910415-145: 50x (re-run at 100x)
910415-160: 50x
910415-153: 50x (re-run at 100x)

Other:

The following volatile samples contained internal standard area counts that exceed the acceptable limits:

910415-145, 910416-168

The re-analysis also failed internal standard acceptable criteria, both runs are included.

The following semi-volatile samples contained internal standard area counts that exceed the acceptable limits:

910415-154, 910415-160, 910416-181

The following semi-volatile samples re-analyses contained internal standard area counts that exceed the acceptable limits:

910415-154, 910415-160, 910416-181

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CASE NARRATIVE
ESE / PROJECT # 4904167.0008
ETL # 98766
06/05/91

Page 1 of 1

Calibration

Volatile

Separate gaseous compound standards @ 50 ug/l were run for the continuing calibrations of 5/10 and 5/13/91.

Sample Dilution

Volatile

The following samples were analyzed at the noted dilutions in order to bring the concentrations of the indicated compounds within linear calibrated range:

98766-005: @ x10; ethylbenzene, m-, o-, p-xylene.

98766-007: @ x10; ethylbenzene, m-, o-, p-xylene.



Environmental
Science &
Engineering, Inc.

July 18, 1991

Mr. Tom Hughes
ESE, Inc.
555 Bridgeport Ave
Shelton, CT 06484

RE: Raybestos PCB Analyses

Dear Tom:

The results and data package for 16 soil samples from Raybestos in Stratford, CT are enclosed. The samples were received between March 23 and April 18, 1991, to be analyzed for Aroclors 1262 & 1268. Many other samples were also received, with the decision to analyze/not analyze to be determined by you, based on screening analyses performed by another laboratory.

If you have any questions, please give me a call.

Sincerely,

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.

Melvin D. Rozeboom, Ph.D.
Senior Project Manager

MDR:mdr\127

ID
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: 2934-1DLSample wt: 0.03146 kgLab file ID: SHELTONDL10101Level: LOWDate Received: 03/23/91% Moisture: not dec. 60.9 dec. Date Extracted: 03/26/91Extraction: SoncDate Analyzed: 04/12/91GPC Cleanup: (Y/N) NDilution Factor: 125

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	26000	U
11104-28-2	Aroclor-1221	26000	U
11141-16-5	Aroclor-1232	26000	U
53469-21-9	Aroclor-1242	26000	U
12672-29-6	Aroclor-1248	26000	U
11097-69-1	Aroclor-1254	51000	U
11096-82-5	Aroclor-1260	51000	U
37324-23-5	Aroclor-1262	51000	U
11100-14-4	Aroclor-1268	1200000	

ID
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: 2934-5DLSample wt: 0.03137 kgLab file ID: SHELTONDL12121Level: LOWDate Received: 03/23/91% Moisture: not dec. 27.1 dec. Date Extracted: 03/26/91Extraction: SoncDate Analyzed: 04/12/91GPC Cleanup: (Y/N) NDilution Factor: 100

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	11000	U
11104-28-2	Aroclor-1221	11000	U
11141-16-5	Aroclor-1232	11000	U
53469-21-9	Aroclor-1242	11000	U
12672-29-6	Aroclor-1248	11000	U
11097-69-1	Aroclor-1254	22000	U
11096-82-5	Aroclor-1260	22000	U
37324-23-5	Aroclor-1262	22000	U
11100-14-4	Aroclor-1268	460000	

ID
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: 2985-5 DLSample wt: 0.03352 kgLab file ID: SHELTONDL13131Level: LOWDate Received: 03/28/91% Moisture: not dec. 38.5 dec. Date Extracted: 04/01/91Extraction: SoncDate Analyzed: 04/12/91GPC Cleanup: (Y/N) NDilution Factor: 500

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	65000	U
11104-28-2	Aroclor-1221	65000	U
11141-16-5	Aroclor-1232	65000	U
53469-21-9	Aroclor-1242	65000	U
12672-29-6	Aroclor-1248	65000	U
11097-69-1	Aroclor-1254	130000	U
11096-82-5	Aroclor-1260	130000	U
37324-23-5	Aroclor-1262	130000	U
11100-14-4	Aroclor-1268	3900000	

ID
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: 2985-11DLSample wt: 0.03406 kgLab file ID: SHELTONDL14141Level: LOWDate Received: 03/28/91% Moisture: not dec. 63.5 dec. Date Extracted: 04/01/91Extraction: SoncDate Analyzed: 04/13/91GPC Cleanup: (Y/N) NDilution Factor: 100

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	22000	U
11104-28-2	Aroclor-1221	22000	U
11141-16-5	Aroclor-1232	22000	U
53469-21-9	Aroclor-1242	22000	U
12672-29-6	Aroclor-1248	22000	U
11097-69-1	Aroclor-1254	44000	U
11096-82-5	Aroclor-1260	44000	U
37324-23-5	Aroclor-1262	44000	U
11100-14-4	Aroclor-1268	550000	

1D
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: 2985-18 DLSample wt: 0.03108 kgLab file ID: SHELTONDL17171Level: LOWDate Received: 03/28/91% Moisture: not dec. 50.4 dec. Date Extracted: 04/01/91Extraction: SoncDate Analyzed: 04/13/91GPC Cleanup: (Y/N) NDilution Factor: 10

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	1600	U
11104-28-2	Aroclor-1221	1600	U
11141-16-5	Aroclor-1232	1600	U
53469-21-9	Aroclor-1242	1600	U
12672-29-6	Aroclor-1248	1600	U
11097-69-1	Aroclor-1254	3200	U
11096-82-5	Aroclor-1260	3200	U
37324-23-5	Aroclor-1262	3200	U
11100-14-4	Aroclor-1268	31000	

1D
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: 2985-20 DLSample wt: 0.03228 kgLab file ID: SHELTONDL18181Level: LOWDate Received: 03/28/91% Moisture: not dec. 19.9 dec. Date Extracted: 04/01/91Extraction: SoncDate Analyzed: 04/13/91GPC Cleanup: (Y/N) NDilution Factor: 100

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	10000	U
11104-28-2	Aroclor-1221	10000	U
11141-16-5	Aroclor-1232	10000	U
53469-21-9	Aroclor-1242	10000	U
12672-29-6	Aroclor-1248	10000	U
11097-69-1	Aroclor-1254	20000	U
11096-82-5	Aroclor-1260	20000	U
37324-23-5	Aroclor-1262	20000	U
11100-14-4	Aroclor-1268	400000	

ID
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: 2985-30 DLSample wt: 0.03199 kgLab file ID: SHELTONDL21211Level: LOWDate Received: 03/28/91% Moisture: not dec. 12.5 dec. Date Extracted: 04/01/91Extraction: SoncDate Analyzed: 04/13/91GPC Cleanup: (Y/N) NDilution Factor: 500

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	46000	U
11104-28-2	Aroclor-1221	46000	U
11141-16-5	Aroclor-1232	46000	U
53469-21-9	Aroclor-1242	46000	U
12672-29-6	Aroclor-1248	46000	U
11097-69-1	Aroclor-1254	91000	U
11096-82-5	Aroclor-1260	91000	U
37324-23-5	Aroclor-1262	91000	U
11100-14-4	Aroclor-1268	5700000	

1D
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: 2999-4 DLSample wt: 0.03245 kgLab file ID: SHELTONDL23231Level: LOWDate Received: 03/29/91% Moisture: not dec. 32.0 dec. Date Extracted: 04/01/91Extraction: SoncDate Analyzed: 04/13/91GPC Cleanup: (Y/N) NDilution Factor: 50

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	5900	U
11104-28-2	Aroclor-1221	5900	U
11141-16-5	Aroclor-1232	5900	U
53469-21-9	Aroclor-1242	5900	U
12672-29-6	Aroclor-1248	5900	U
11097-69-1	Aroclor-1254	12000	U
11096-82-5	Aroclor-1260	12000	U
37324-23-5	Aroclor-1262	12000	U
11100-14-4	Aroclor-1268	370000	

1D
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: 2999-11 DLSample wt: 0.03167 kgLab file ID: SHELTONDL24241Level: LOWDate Received: 03/29/91% Moisture: not dec. dec. Date Extracted: 04/01/91Extraction: SoncDate Analyzed: 04/13/91GPC Cleanup: (Y/N) NDilution Factor: 25

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	2000	U
11104-28-2	Aroclor-1221	2000	U
11141-16-5	Aroclor-1232	2000	U
53469-21-9	Aroclor-1242	2000	U
12672-29-6	Aroclor-1248	2000	U
11097-69-1	Aroclor-1254	4000	U
11096-82-5	Aroclor-1260	4000	U
37324-23-5	Aroclor-1262	4000	U
11100-14-4	Aroclor-1268	100000	

★ - Not enough sample to perform Total Solids Analysis.

00000

ID
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: 2999-15 DLSample wt: 0.03174 kgLab file ID: SHELTONDL25251Level: LOWDate Received: 03/29/91% Moisture: not dec. 27.0 dec. Date Extracted: 04/01/91Extraction: SoncDate Analyzed: 04/13/91GPC Cleanup: (Y/N) NDilution Factor: 200

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	22000	U
11104-28-2	Aroclor-1221	22000	U
11141-16-5	Aroclor-1232	22000	U
53469-21-9	Aroclor-1242	22000	U
12672-29-6	Aroclor-1248	22000	U
11097-69-1	Aroclor-1254	44000	U
11096-82-5	Aroclor-1260	44000	U
37324-23-5	Aroclor-1262	44000	U
11100-14-4	Aroclor-1268	1500000	

1D
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: 2999-23 DLSample wt: 0.03181 kgLab file ID: SHELTONDL27271Level: LOWDate Received: 03/29/91% Moisture: not dec. 27.7 dec. Date Extracted: 04/03/91Extraction: SoncDate Analyzed: 04/13/91GPC Cleanup: (Y/N) NDilution Factor: 20

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	2200	U
11104-28-2	Aroclor-1221	2200	U
11141-16-5	Aroclor-1232	2200	U
53469-21-9	Aroclor-1242	2200	U
12672-29-6	Aroclor-1248	2200	U
11097-69-1	Aroclor-1254	4400	U
11096-82-5	Aroclor-1260	4400	U
37324-23-5	Aroclor-1262	4400	U
11100-14-4	Aroclor-1268	72000	

ID
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: 3202-1DLSample wt: 0.03234 kgLab file ID: EPA23231Level: LOWDate Received: 04/19/91% Moisture: not dec. 42.0 dec. Date Extracted: 04/22/91Extraction: SoncDate Analyzed: 05/02/91GPC Cleanup: (Y/N) NDilution Factor: 500

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	69000	U
11104-28-2	Aroclor-1221	69000	U
11141-16-5	Aroclor-1232	69000	U
53469-21-9	Aroclor-1242	69000	U
12672-29-6	Aroclor-1248	69000	U
11097-69-1	Aroclor-1254	140000	U
11096-82-5	Aroclor-1260	140000	U
37324-23-5	Aroclor-1262	140000	U
11100-14-4	Aroclor-1268	1200000	

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00012

ID
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: 3202-2DLSample wt: 0.03430 kgLab file ID: EPA17171Level: LOWDate Received: 04/19/91% Moisture: not dec. 17.2 dec. Date Extracted: 04/22/91Extraction: SonicDate Analyzed: 05/02/91GPC Cleanup: (Y/N) NDilution Factor: 100

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	9700	U
11104-28-2	Aroclor-1221	9700	U
11141-16-5	Aroclor-1232	9700	U
53469-21-9	Aroclor-1242	9700	U
12672-29-6	Aroclor-1248	9700	U
11097-69-1	Aroclor-1254	19000	U
11096-82-5	Aroclor-1260	19000	U
37324-23-5	Aroclor-1262	19000	U
11100-14-4	Aroclor-1268	270000	

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00013

ID
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: 3202-3 DLSample wt: 0.03354 kgLab file ID: EPA24241Level: LOWDate Received: 04/19/91% Moisture: not dec. 15.5 dec. Date Extracted: 04/22/91Extraction: SoncDate Analyzed: 05/02/91GPC Cleanup: (Y/N) NDilution Factor: 500

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	47000	U
11104-28-2	Aroclor-1221	47000	U
11141-16-5	Aroclor-1232	47000	U
53469-21-9	Aroclor-1242	47000	U
12672-29-6	Aroclor-1248	95000	U
11097-69-1	Aroclor-1254	95000	U
11096-82-5	Aroclor-1260	95000	U
37324-23-5	Aroclor-1262	95000	U
11100-14-4	Aroclor-1268	270000	

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00014

1D
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: 3202-4 DLSample wt: 0.03560 kgLab file ID: EPA19191Level: LOWDate Received: 04/19/91% Moisture: not dec. 24.6 dec. Date Extracted: 04/22/91Extraction: SonicDate Analyzed: 05/02/91GPC Cleanup: (Y/N) NDilution Factor: 100

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	11000	U
11104-28-2	Aroclor-1221	11000	U
11141-16-5	Aroclor-1232	11000	U
53469-21-9	Aroclor-1242	11000	U
12672-29-6	Aroclor-1248	21000	U
11097-69-1	Aroclor-1254	21000	U
11096-82-5	Aroclor-1260	21000	U
37324-23-5	Aroclor-1262	21000	U
11100-14-4	Aroclor-1268	130000	

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00015

ID
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: 3202-5 DLSample wt: 0.03257 kgLab file ID: EPA26261Level: LOWDate Received: 04/19/91% Moisture: not dec. 19.4 dec. _____Date Extracted: 04/22/91Extraction: SoncDate Analyzed: 05/02/91GPC Cleanup: (Y/N) NDilution Factor: 10

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	990	U
11104-28-2	Aroclor-1221	990	U
11141-16-5	Aroclor-1232	990	U
53469-21-9	Aroclor-1242	990	U
12672-29-6	Aroclor-1248	2000	U
11097-69-1	Aroclor-1254	2000	U
11096-82-5	Aroclor-1260	2000	U
37324-23-5	Aroclor-1262	2000	U
11100-14-4	Aroclor-1268	2000	U

FORM I PEST

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00016

EnviroTest Laboratories Inc.

315 Fullerton Avenue
Newburgh, NY 12550
(914) 562 0890

Company Name, Location

Project Name/P.O. Number

Project Site Location

Project Coordinator/Contact

SAMPLE BOTTLES

ANALYSIS

SAMPLING DATE	TIME AM/PM	COMP	GRAB	SAMPLE ID No	Total Number of Containers	SAMPLE BOTTLES											ANALYSIS		
						40ml Glass HCl	Low Amber Sulfuric Acid	Low Amber Chromic Washed	Low Plastic Nitric Acid	Low Plastic Sodium Hydroxide	Low Plastic	Low Plastic Sulfuric Acid	250ml Plastic	125ml Plastic Sample	250 ml Amber	Bottle Count			
1/19	1730		✓	910319-019 2934-1	1												1	Arachlor 1262/1268	Must be extracted by 3/26
1/21	1700		✓	910321-055 2934-2	1												1	Arachlor 1262/1268	Hold analysis for Tom Hughes authorization
1/21	1700		✓	910321-056 2934-3	1											1	"	"	
1/21	1700		✓	910321-057 2934-4	1											1	"	"	
1/21	1700		✓	910321-058 2934-5	1											1	"	"	
1/21	1700		✓	910321-059 2934-6	1											1	"	"	
1/21	1700		✓	910321-060 2934-7	1											1	"	"	

authorized 3/26 by Tom MOR

Relinquished by EnviroTest Laboratories		Custody Shipping Number	Date	Received by	Date		
Print _____			Time	Print _____	Time		
Signature _____				Signature _____			
Relinquished by	Date	Received by	Date	Relinquished by	Date	Received by ETL	Date
Print Thomas R. Hughes	3/23/91	Allen R. Horgan	3-23-91	Print _____	Time		Time
Signature Thom R. Hughes	1200	Allen R. Horgan	1200	Signature _____			

REMARKS We will contact you on 3/25/91 at 4:00 PM to authorize analysis of one sample from 910321-055-060. Extract 019 immediately.

Laboratories Inc.

45 Edgerton Avenue
 Newburgh, NY 12550 Peoria
 (914) 562-9890

Company Name/Location: ESS, Shelton, CT
 Project Name/P.O. Number: Raybestos
 Project Site Location: Shelton, CT
 Project Coordinator/Contact: Tom Hughes

SAMPLE BOTTLES

ANALYSIS

DATE	TIME AM/PM	COMP	GRAB	SAMPLE ID No	Total Number of Containers	SAMPLE BOTTLES												
						30ml Glass HCL	Leak Amber Sulfuric Acid	Leak Amber Organic Washed	Leak Plastic Nitric Acid	Leak Plastic Sodium Hydroxide	Leak Plastic	Leak Plastic Sulfuric Acid	250ml Plastic	125ml Plastic Sterile	250 ml Amber	2 or 0/Pak		
25/91				910325-061	1													
				through 910325-077														
28/91				910328-126 through														
				910328-133														

Hold for a call from Tom Hughes to confirm which samples are to be analyzed

2999-1-25

Note: 910327--- appears on the labels, they should all be 910328---

Relinquished by <u>Barbara Gigliatti</u>		Custody Shipping Number	Date <u>3-28-91</u>	Received by <u>W. Borman</u>		Date <u>3-29-91</u>
Signature <u>Barbara Gigliatti</u>			Time <u>5:55 pm</u>	Signature <u>W. Borman</u>		Time <u>9:30</u>
Relinquished by	Date	Received by	Date	Relinquished by	Date	Received by ETL
Print				Print		
Signature	Time		Time	Signature	Time	Time

REMARKS

PCB ANALYSIS DATA PACKAGE

FACILITY NAME: RAYBESTOS

Volume 1 of 1

Environmental Science & Engineering, Inc.



PCB SOIL SURROGATE RECOVERY

Sequence 1

Lab Name: ENVIRONMENTAL SCIENCE AND ENGINEERING, INC.
 Contract: ESE SHELTON

	EPA SAMPLE NO.	% DBC	OTHER
01	PBLK26	440	*
02	PBLK01	350	*
03	PBLK03	214	*
04	910319-19DL	D	
05	910321-058DL	D	
06	910326-084DL	D	
07	910326-092DL	D	
08	910326-099DL	D	
09	910327-101DL	D	
10	910327-122DL	D	
11	910325-064DL	D	
12	910325-071DL	D	
13	910325-075DL	D	
14	910328-131DL	D	
15			
16			
17			
18			
19			
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22			
23			
24			
25			
26			
27			
28			
29			
30			

ADVISORY QC
 LIMITS
 (24-154)

S1 (DCAA) - DICHLOROPHENYLACETIC ACID

COLUMN TO BE USED TO FLAG RECOVERY VALUES

* VALUES OUTSIDE OF QC LIMITS

D SURROGATES DILUTED OUT

M SURROGATE NOT RECOVERED DUE TO MATRIX INTERFERENCE

00001

SOIL PCB SURROGATE RECOVERY

Sequence 2

Lab Name: ENVIRONMENTAL SCIENCE AND ENGINEERING, INC.
 Contract: ESE SHELTON

	EPA SAMPLE NO.	# DBC	OTHER
01	PBLK22	110	
02	910415-145DL	D	
03	910415-153DL	D	
04	910416-160DL	D	
05	910416-168DL	D	
06	910416-181DL	48	
07			
08			
09			
10			
11			
12			
13			
14			
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27			
28			
29			
30			

ADVISORY (LIMITS (24-154

S1 (DBC) - DIBUTYLCHLORENDATE

COLUMN TO BE USED TO FLAG RECOVERY VALUES

* VALUES OUTSIDE OF QC LIMITS

D SURROGATES DILUTED OUT

M SURROGATE NOT RECOVERED DUE TO MATRIX INTERFERENC

4C
PESTICIDE METHOD BLANK SUMMARY

Lab Name: ENVIRONMENTAL SCIENCE & ENG.

ContractC: ESE-SHELTON

Lab Sample ID: PBLK26

Lab File ID: SHELTON60601

Matrix: (soil/water) SOIL

Level: (low/med) LOW

Date Extracted: 03/26/91

Extraction: (SepF/Cont/Sonc) SepF

Date Analyzed (1): 04/11/91

Date Analyzed (2): _____

Time Analyzed (1): 13:15

Time Analyzed (2): _____

Instrument ID (1): HP5890

Instrument ID (2): _____

GC COLUMN ID (1): MEGABORE 608

GC Column ID (2): _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED(1)	DATE ANALYZED(2)
01	910319-19DL	2934-1DL	04/12/91	
02	910321-058DL	2934-5DL	04/12/91	
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

4C
PESTICIDE METHOD BLANK SUMMARY

Lab Name: ENVIRONMENTAL SCIENCE & ENG. ContractC: ESE-SHELTON
 Lab Sample ID: PBLK01 Lab File ID: SHELTON61611
 Matrix: (soil/water) SOIL Level: (low/med) LOW
 Date Extracted: 04/01/91 Extraction: (SepF/Cont/Sonc) SepF
 Date Analyzed (1): 04/11/91 Date Analyzed (2): _____
 Time Analyzed (1): 15:24 Time Analyzed (2): _____
 Instrument ID (1): HP5890 Instrument ID (2): _____
 GC COLUMN ID (1): MEGABORE 608 GC Column ID (2): _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED(1)	DATE ANALYZED(2)
01	910325-064DL	2999-4DL	04/13/91	
02	910325-071DL	2999-11DL	04/13/91	
03	910325-075DL	2999-15DL	04/13/91	
04	910326-084DL	2985-5DL	04/12/91	
05	910326-092DL	2985-11DL	04/13/91	
06	910326-099DL	2985-18DL	04/13/91	
07	910327-101DL	2985-20DL	04/13/91	
08	910327-122DL	2985-30DL	04/13/91	
09				
10				
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22				
23				
24				
25				
26				

COMMENTS: _____

page ___ of ___

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4C
PESTICIDE METHOD BLANK SUMMARY

Lab Name: ENVIRONMENTAL SCIENCE & ENG.

ContractC: ESE-SHELTON

Lab Sample ID: PBLK03

Lab File ID: SHELTON62621

Matrix: (soil/water) SOIL

Level: (low/med) LOW

Date Extracted: 04/03/91

Extraction: (SepF/Cont/Sonc) SepF

Date Analyzed (1): 04/11/91

Date Analyzed (2): _____

Time Analyzed (1): 16:13

Time Analyzed (2): _____

Instrument ID (1): HP5890

Instrument ID (2): _____

GC COLUMN ID (1): MEGABORE 608

GC Column ID (2): _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED(1)	DATE ANALYZED(2)
01	910328-131DL	2999-23DL	04/13/91	
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

4C
PCB METHOD BLANK SUMMARY

LAB NAME: ENVIRONMENTAL SCIENCE & ENG.

CONTRACT: ESE SHELTON

Lab Sample ID: PBLK22

Lab File ID: EPA14141

Matrix: (soil/water) SOIL

Level: (low/med) LOW

Date Extracted: 04/22/91

Extraction: (SepF/Cont/Sonc) Sonc

Date Analyzed (1): 05/02/91

Date Analyzed (2): _____

Time Analyzed (1): 00:50

Time Analyzed (2): _____

Instrument ID (1): HP5890

Instrument ID (2): _____

GC COLUMN ID (1): DB-5

GC Column ID (2): _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED(1)	DATE ANALYZED(2)
01	910415-145DL	3202-1DL	05/02/91	
02	910415-156DL	3202-2DL	05/02/91	
03	910416-160DL	3202-3DL	05/02/91	
04	910416-168DL	3202-4DL	05/02/91	
05	910416-181DL	3202-5DL	05/02/91	
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

EPA SAMPLE NO. 910319-19DL

1D
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: 2934-1DLSample wt: 0.03146 kgLab file ID: SHELTONDL10101Level: LOWDate Received: 03/23/91% Moisture: not dec. 60.9 dec. Date Extracted: 03/26/91Extraction: SoncDate Analyzed: 04/12/91GPC Cleanup: (Y/N) NDilution Factor: 125

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	26000	U
11104-28-2	Aroclor-1221	26000	U
11141-16-5	Aroclor-1232	26000	U
53469-21-9	Aroclor-1242	26000	U
12672-29-6	Aroclor-1248	26000	U
11097-69-1	Aroclor-1254	51000	U
11096-82-5	Aroclor-1260	51000	U
37324-23-5	Aroclor-1262	51000	U
11100-14-4	Aroclor-1268	1200000	

00007

910319-19D

2934-104

ESF-Shelli

Page 1

User: URISH

upci

0.03146 kg

20:58:38

1.125

Revision: 860/V2.2 Printed: 15-Apr-1991 at 14:46:55
 Name: VAX2 GC Project: 608A

S: SHELTONDL10 12 - Apr - 1991

Header:			
Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	5
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:
 Mode:
 Acquired on node LACE01 system 5 for 608A

39.1 25

Channel:
 MEGABORE 608

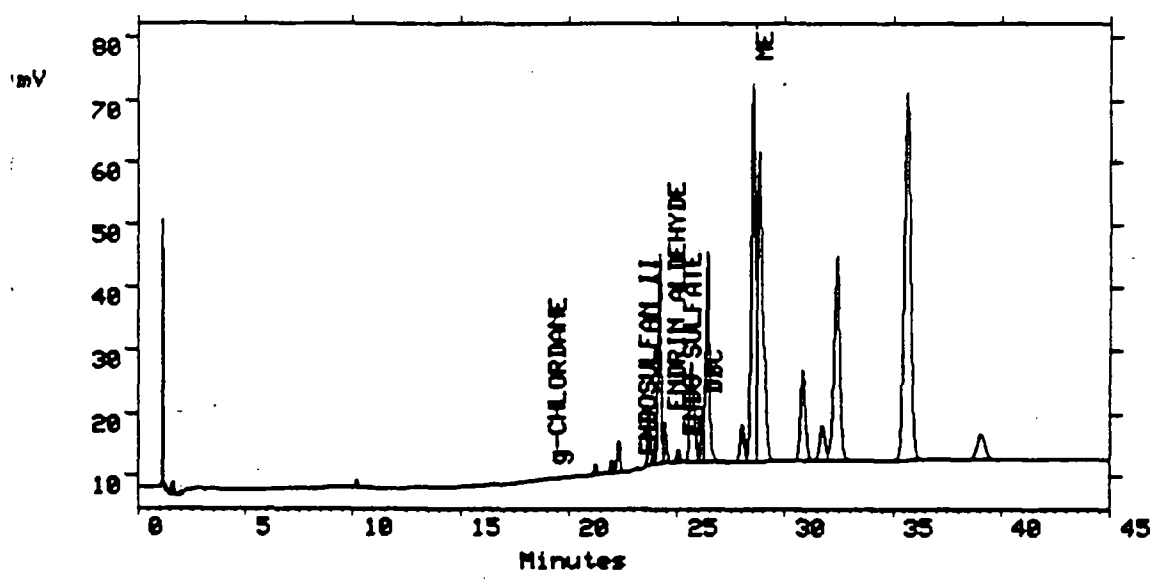
Conditions

Start Temp - 150° for 1min
 Rate - 5°/min
 Final Temp - 265° for 31min
 Dry Temp - 200°
 Det Temp - 300°

Sample:
 External vial 10

First Plot:

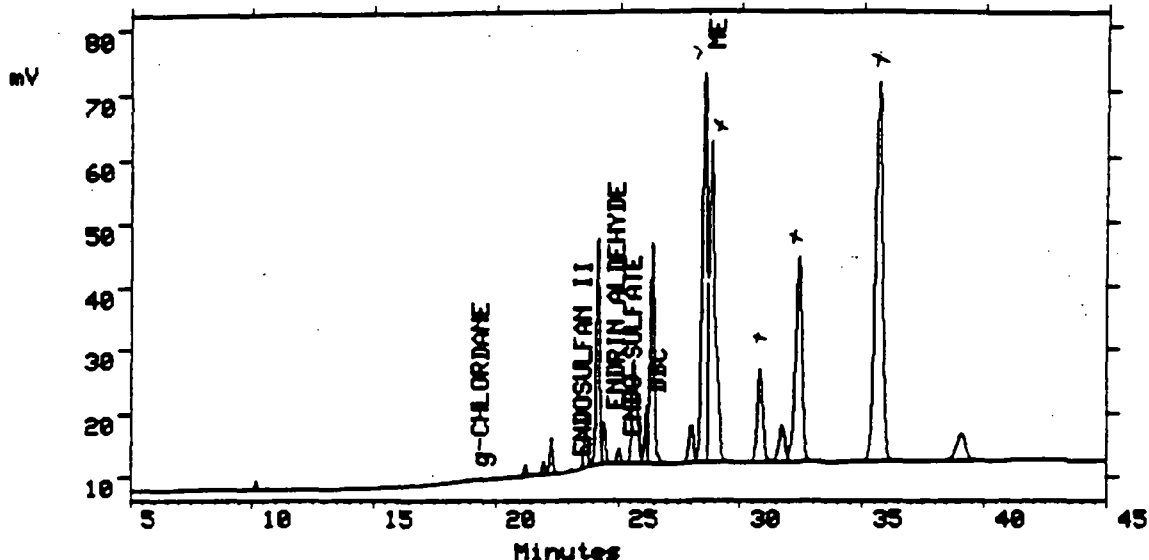
SHELTONDL10 Manual Injection 1 Ch 1



Second Plot:

910314

SHELTONDL10 Manual Injection 1 Ch 1



2934-

FSE-S4

VP=

0.0314

1:125

39.1°

Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Manually integrated peaks have integration types with 1 or more '*'s.

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

Errors Reported From Integration/Quantitation:
 Integration method file was not found

GC Results:

Peak Name	Ret Time	Area	Amount
U KNOWN	7.718	1422	-
U KNOWN	10.196	9932	-
U KNOWN	10.654	875	-
U KNOWN	16.615	2827	-
g-CHLORDANE	18.917	676	0.003*
U KNOWN	19.150	551	-
U KNOWN	21.233	15374	-
U KNOWN	21.666	1610	-
U KNOWN	21.972	16915	-
U KNOWN	22.290	51511	-
E DOSULFAN II	23.110	2339	0.008*
U KNOWN	23.678	74251	-
U KNOWN	24.170	331580	-
E DRIN ALDEHYDE	24.437	57859	0.228*
E DO SULFATE	25.038	22351	0.069*
U KNOWN	25.640	243523	-
D C	26.189	70973	0.299*
U KNOWN	26.398	411555	-
U KNOWN	27.990	80986	-
M THOXYCHLOR	28.514	824628 x	7.746*
U KNOWN	28.812	866273 x	-

0000

Peak Name	Ret Time	Area	Amount
UI KNOWN	30.830	234416 x	-
UI KNOWN	31.723	98630	-
UI KNOWN	32.414	609828 x	-
UI KNOWN	35.643	1245500 x	-
UI KNOWN	39.061	108900	-

91039-1

2934-1

ESE-10

VF=

0.0314

This amount was computed using manually entered responses.

Amnt

1.125

$$\frac{3700645}{333639} \times \frac{10 \text{ ml}}{0.05146} \times 125 = 450,000 \text{ ug/kg}$$

39.1%

$$450,000 \times 0.391 = 1,200,000 \text{ ug/kg dry wt}$$

- Calculated against ATC 1268

- Analyzed 4-12-91 at 20:09

1D
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERING Contract: ESE SHELTON
 Matrix: SOIL Lab Sample ID: 2934-5 DL
 Sample wt: 0.03137 kg Lab file ID: SHELTONDL12121
 Level: LOW Date Received: 03/23/91
 % Moisture: not dec. 27.1 dec. _____ Date Extracted: 03/26/91
 Extraction: Sonc Date Analyzed: 04/12/91
 GPC Cleanup: (Y/N) N Dilution Factor: 100

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	11000	U
11104-28-2	Aroclor-1221	11000	U
11141-16-5	Aroclor-1232	11000	U
53469-21-9	Aroclor-1242	11000	U
12672-29-6	Aroclor-1248	11000	U
11097-69-1	Aroclor-1254	22000	U
11096-82-5	Aroclor-1260	22000	U
37324-23-5	Aroclor-1262	22000	U
11100-14-4	Aroclor-1268	460000	

Version: 860/V2.2 Printed: 15-Apr-1991 at 14:49:59
Name: VAX2 GC Project: 608A

S: SHELTONDL12 12 - Apr - 1991 22:36:48

1:100

Header:			
Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	5
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:
Mode:
Acquired on node LACE01 system 5 for 608A

72.9%

Channel:
MEGABORE 608

Conditions

Start Temp - 150° for 1 min

Rate - 5°/min

Final Temp - 265° for 21 min

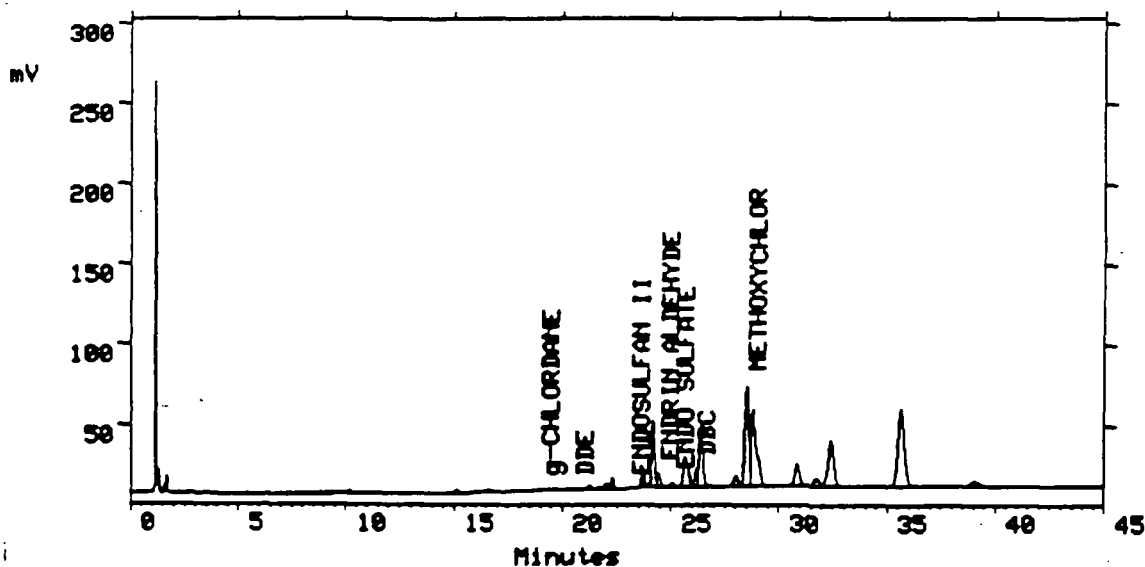
dry Temp - 200°

Det Temp - 300°

Sample:
External vial 12

First Plot:

SHELTONDL12 Manual Injection 1 Ch 1



Second Plot:

910321-05

2934-5

ESE-Std

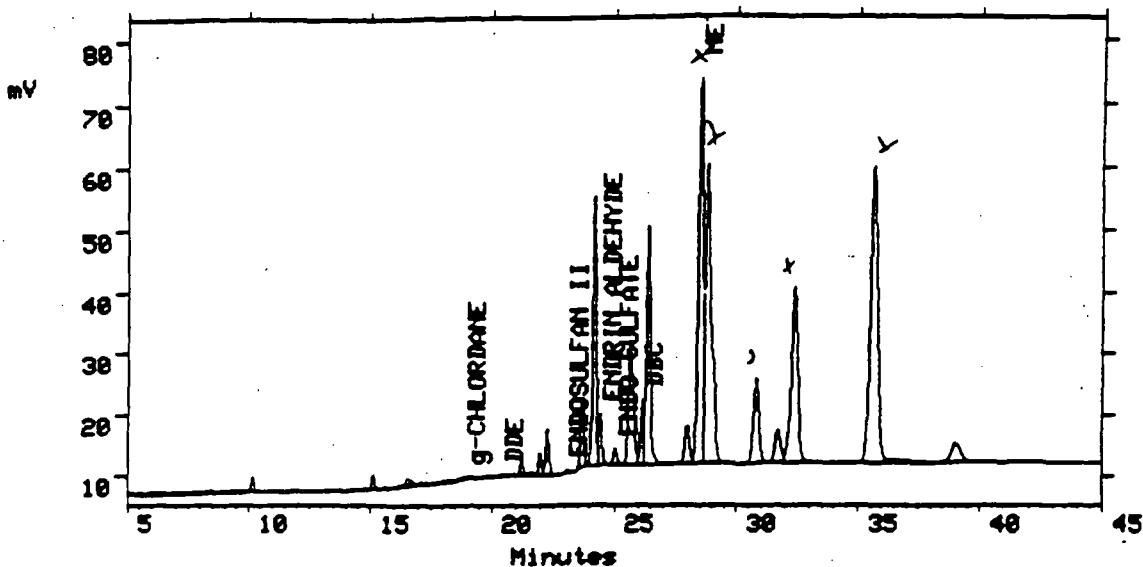
NF=1

0.03172

1:100

72.9

SHELTONDL12 Manual Injection 1 Ch 1



Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Manually integrated peaks have integration types with 1 or more '*'s.

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

Errors Reported From Integration/Quantitation:
 Integration method file was not found

GC Results:

Peak Name	Ret Time	Area	Amount
U1 KNOWN	5.166	2821	-
U1 KNOWN	5.459	1308	-
U1 KNOWN	5.592	2938	-
U1 KNOWN	5.914	4185	-
U1 KNOWN	6.157	3673	-
U1 KNOWN	6.416	4465	-
U1 KNOWN	6.606	2745	-
U1 KNOWN	6.878	3332	-
U1 KNOWN	7.064	2669	-
U1 KNOWN	7.346	5300	-
U1 KNOWN	7.937	5840	-
U1 KNOWN	8.509	8161	-
U1 KNOWN	8.943	4714	-
U1 KNOWN	9.491	3254	-
U1 KNOWN	10.198	20507	-
U1 KNOWN	10.646	1411	-
U1 KNOWN	11.338	642	-
U1 KNOWN	12.042	2356	-
U1 KNOWN	12.723	1291	-
U1 KNOWN	13.790	2958	-
U1 KNOWN	15.156	24218	-

00013

Peak Name	Ret Time	Area	Amount
U: KNOWN	15.695	557	-
U: KNOWN	16.586	12608	-
U: KNOWN	16.749	6851	-
U: KNOWN	17.133	3076	-
U: KNOWN	18.056	9752	-
U: KNOWN	18.284	3596	-
g- CHLORDANE	18.926	6494	0.032 ⁺
U: KNOWN	19.150	2618	-
D: E	20.509	3726	0.011 ⁺
U: KNOWN	20.806	866	-
U: KNOWN	21.233	23200	-
U: KNOWN	21.633	6297	-
U: KNOWN	21.974	31035	-
U: KNOWN	22.291	72473	-
E: DOSULFAN II	23.110	3838	0.014 ⁺
U: KNOWN	23.678	101333	-
U: KNOWN	24.169	406649	-
E: DRIN ALDEHYDE	24.437	77136	0.304 ⁺
E: DO SULFATE	25.038	26824	0.083 ⁺
U: KNOWN	25.643	293964	-
D: C	26.187	84944	0.358 ⁺
U: KNOWN	26.400	459139	-
U: KNOWN	27.992	86211	-
M: THOXYCHLOR	28.515	834109 ^y	7.835 ⁺
U: KNOWN	28.810	853638 ^y	-
U: KNOWN	30.832	221551 ^y	-
U: KNOWN	31.728	92104	-
U: KNOWN	32.415	549444 ^x	-
U: KNOWN	35.644	1020383 ^y	-
U: KNOWN	36.727	25855	-
U: KNOWN	39.071	80990	-
U: KNOWN	41.808	1030	-

910321-058
 2931-5
 FSE-Slab
 uf=100
 0.03137
 1:100
 72.9%

This amount was computed using manually entered responses.

Ant

$$\frac{3479125}{333439} \times \frac{10 \text{ml}}{0.03137} \times 100 \div 0.729 = 2160,000 \text{ ug dry wt.}$$

- Calculated against AR 1268

- Analyzed 4-12-91 at 20:09

$$D.L. = \frac{160 \mu\text{g/Kg}}{0.729} \times 100 = \frac{22,000}{8200} \mu\text{g/Kg}$$

ID
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: 2985-5 DLSample wt: 0.03352 kgLab file ID: SHELTONDL13131Level: LOWDate Received: 03/28/91% Moisture: not dec. 38.5 dec. Date Extracted: 04/01/91Extraction: SoncDate Analyzed: 04/12/91GPC Cleanup: (Y/N) NDilution Factor: 500

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	65000	U
11104-28-2	Aroclor-1221	65000	U
11141-16-5	Aroclor-1232	65000	U
53469-21-9	Aroclor-1242	65000	U
12672-29-6	Aroclor-1248	65000	U
11097-69-1	Aroclor-1254	130000	U
11096-82-5	Aroclor-1260	130000	U
37324-23-5	Aroclor-1262	130000	U
11100-14-4	Aroclor-1268	3900000	

Session: 860/V2.2 Printed: 15-Apr-1991 at 14:51:36
Node: VAX2 GC Project: 608A

Page 1
User: URISH *UF*

0.03352g

SHELTONDL13

12 - Apr - 1991

23:25:52

1:500

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	5
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Mode:
Acquired on node LACE01 system 5 for 608A

Conditions

Channel:
MEGABORE 608

Chim Temp - 150° for

Rate - 5/min

Final Temp - 265° for 2

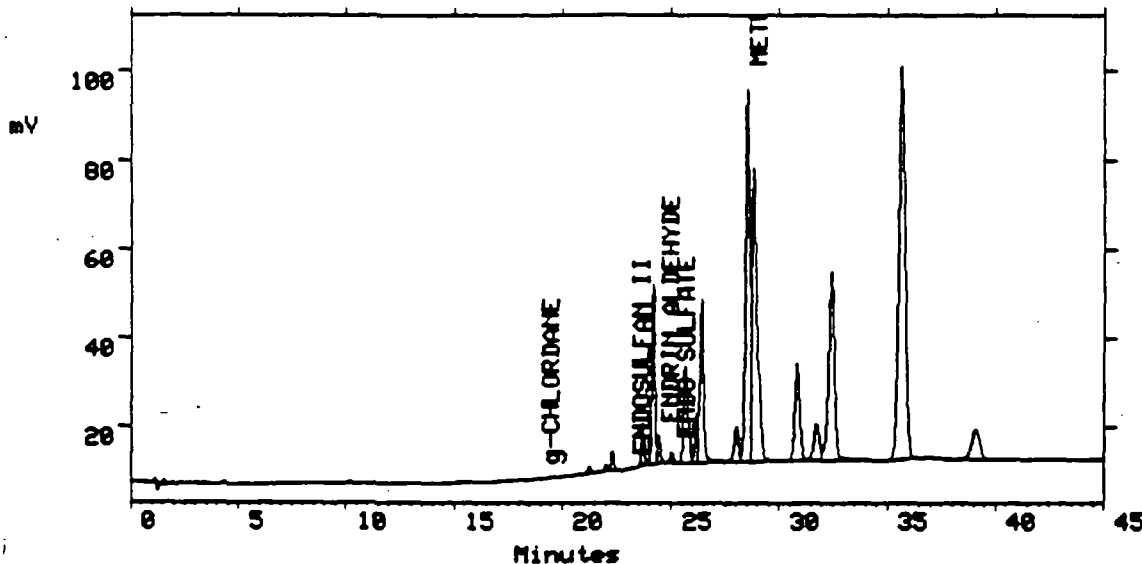
Chim Temp - 200°

Det Temp - 300°

Sample:
External vial 13

First Plot:

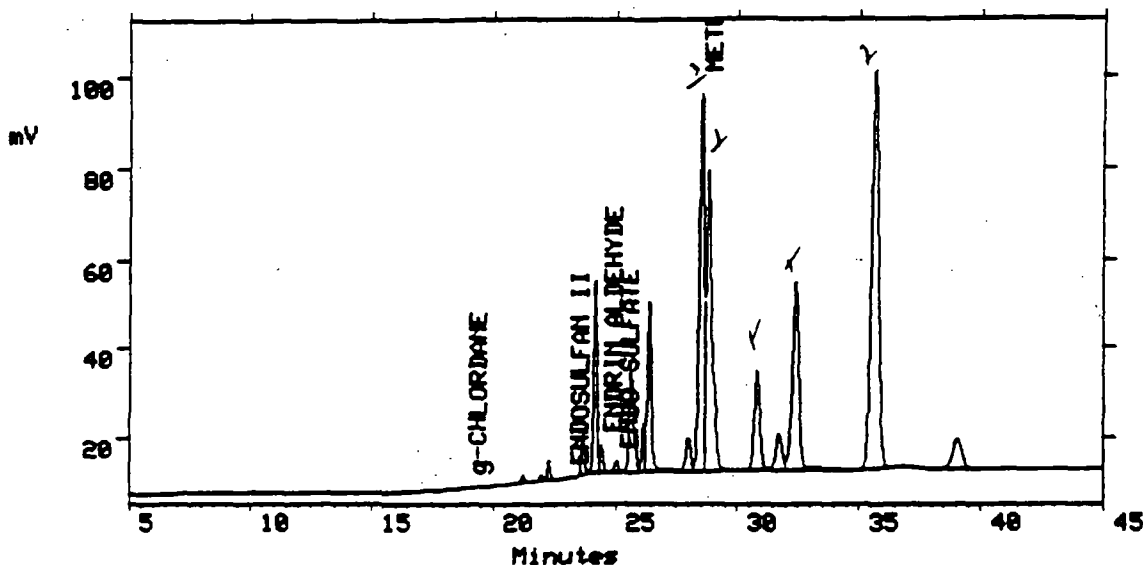
SHELTONDL13 Manual Injection 1 Ch 1



Second Plot:

910326-06

SHELTONDL13 Manual Injection 1 Ch 1



2985-5
 E-E-SL
 W-F-1
 0.033521
 1:50
 61.5%

Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Manually integrated peaks have integration types with 1 or more '*'s.

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

Errors Reported From Integration/Quantitation:
 Integration method file was not found

GC Results:

Peak Name	Ret Time	Area	Amount
U) KNOWN	6.074	898	-
U) KNOWN	8.197	1386	-
U) KNOWN	10.196	4016	-
U) KNOWN	10.655	939	-
U) KNOWN	15.660	1465	-
U) KNOWN	16.609	2331	-
U) KNOWN	17.365	971	-
g- CHLORDANE	18.926	750	0.004*
U) KNOWN	21.233	15069	-
U) KNOWN	21.666	943	-
U) KNOWN	21.970	10918	-
U) KNOWN	22.290	39557	-
E) DOSULFAN II	23.115	1438	0.005*
U) KNOWN	23.677	85559	-
U) KNOWN	24.169	400299	-
E) DRIN ALDEHYDE	24.435	55339	0.218*
E) DO SULFATE	25.037	25226	0.078*
U) KNOWN	25.636	314531	-
U) KNOWN	26.184	87486	-
U) KNOWN	26.398	457580	-
U) KNOWN	27.991	112903	-

00017

Peak Name	Ret Time	Area	Amount
M: THOXYCHLOR	28.514	1145918 ^v	10.764 ^m
J1 KNOWN	28.810	1136532 ^x	-
J1 KNOWN	30.832	359652 ^y	-
U1 KNOWN	31.725	146262	-
U1 KNOWN	32.413	826917 ^r	-
U1 KNOWN	35.640	1850911 ^r	-
U1 KNOWN	39.061	179546	-

9.10 326-0
2485-
ESE-S
UF=1
0.0335

This amount was computed using manually entered responses.

Amount

$$\frac{5319930}{335439} \div \frac{10 \text{ ml} \times 500 \times 0.615}{0.033524}$$

= 3,900,000
dry wt

- Calculated against AR 1268
- Analyzed 4-12-91 at 20:09

$$D.L. = \frac{160 \mu\text{g/Kg}}{0.615} \times 500 = 130,000 \mu\text{g/Kg}$$

1D
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: 2985-11 DLSample wt: 0.03406 kgLab file ID: SHELTONDL14141Level: LOWDate Received: 03/28/91% Moisture: not dec. 63.5 dec. Date Extracted: 04/01/91Extraction: SoncDate Analyzed: 04/13/91GPC Cleanup: (Y/N) NDilution Factor: 100

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	22000	U
11104-28-2	Aroclor-1221	22000	U
11141-16-5	Aroclor-1232	22000	U
53469-21-9	Aroclor-1242	22000	U
12672-29-6	Aroclor-1248	22000	U
11097-69-1	Aroclor-1254	44000	U
11096-82-5	Aroclor-1260	44000	U
37324-23-5	Aroclor-1262	44000	U
11100-14-4	Aroclor-1268	550000	

Version: 860/V2.2
Node: VAX2

Printed: 15-Apr-1991 at 14:53:57
GC Project: 608A

Page 1
User: URISH

0.03406 Kg

S: SHELTONDL14

13 - Apr - 1991

0:14:59

1.100

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	5
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Mode:
Acquired on node LACE01 system 5 for 608A

Channel:
MEGABORE 608

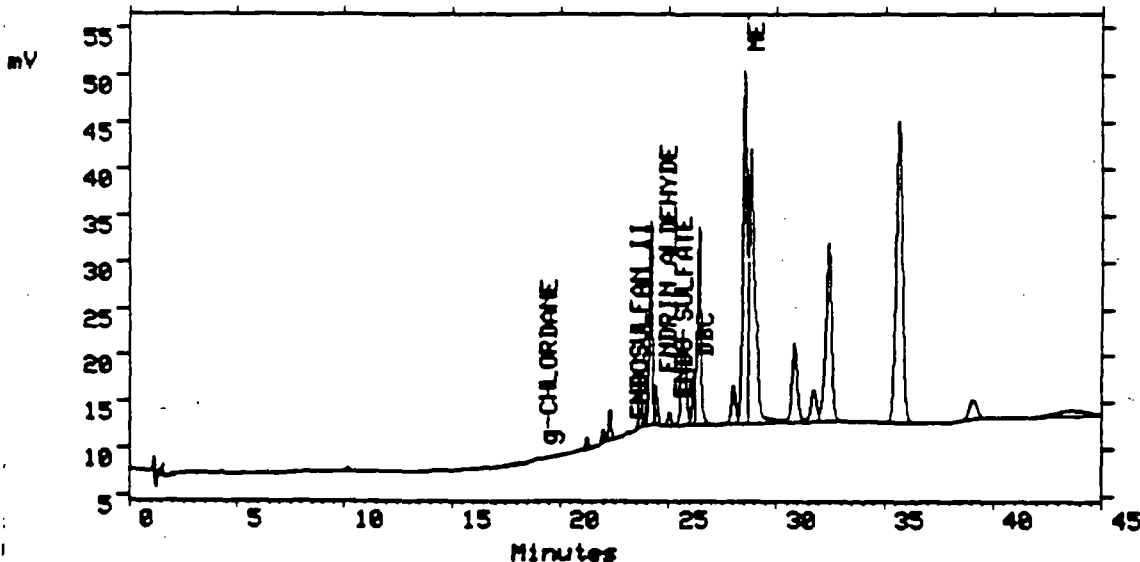
Sample:
External vial 14

First Plot:

SHELTONDL14 Manual Injection 1 Ch 1

Conditions

Start Temp - 150° for 1 min
Rate - 5°/min
Final Temp - 265° for 21.0
Dry Temp - 200°
Det Temp - 300°



Second Plot:

910326-812

SHELTONDL14 Manual Injection 1 Ch 1

2985-11

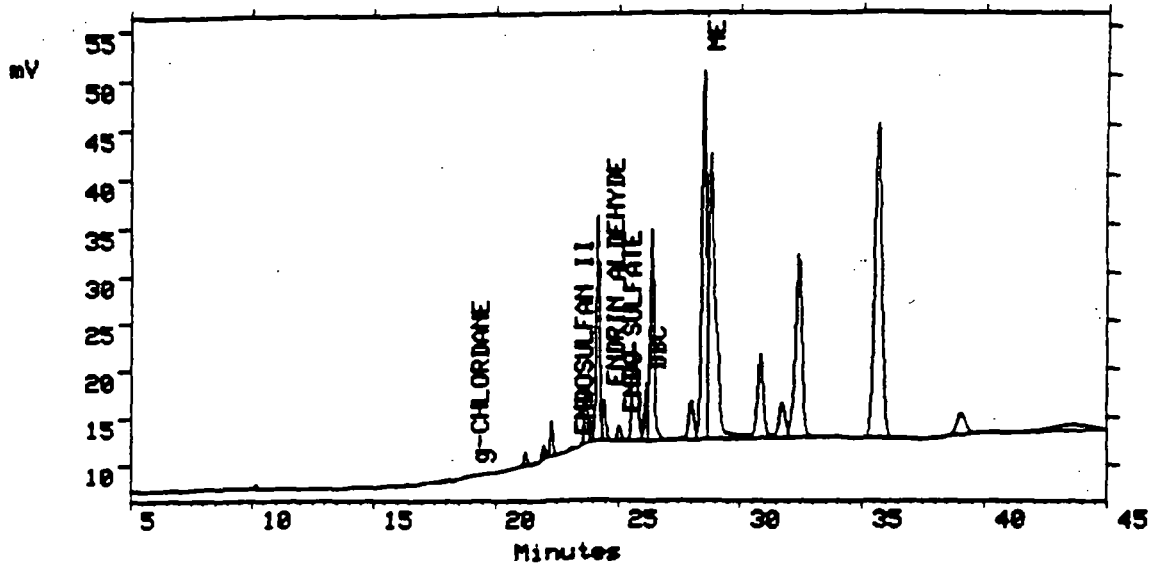
FSE-Station

IF=1812

0.034061

1:108

34.525



Conditions:

Sample amount Internal standard amt
Scale factor Mode Analysis
Keyboards of Remote Devices Unlocked

Manually integrated peaks have integration types with 1 or more '*'s.

Do Not Update Retention Time Retention Time Offset 0.00 sec
Relative Peak Window 1% Absolute Peak Window 6 sec

Errors Reported From Integration/Quantitation:
Integration method file was not found

GC Results:

Peak Name	Ret Time	Area	Amount
U1 KNOWN	5.039	510	-
U1 KNOWN	5.330	1007	-
U1 KNOWN	6.069	1214	-
U1 KNOWN	7.731	1502	-
U1 KNOWN	8.193	893	-
U1 KNOWN	10.196	3707	-
U1 KNOWN	11.127	899	-
U1 KNOWN	16.109	2611	-
U1 KNOWN	16.623	1168	-
U1 KNOWN	18.274	5509	-
g- CHLORDANE	18.930	2329	0.011^
U1 KNOWN	21.233	12921	-
U1 KNOWN	21.670	1136	-
U1 KNOWN	21.975	12126	-
U1 KNOWN	22.294	31304	-
E1 DOSULFAN II	23.122	1396	0.005^
U1 KNOWN	23.680	53737	-
U1 KNOWN	24.170	216461	-
E1 DRIN ALDEHYDE	24.437	36986	0.146^
E1 DO SULFATE	25.040	16264	0.050^
U1 KNOWN	25.646	160942	-

00021

Peak Name	Ret Time	Area	Amount
D: C	26.189	46308	0.195
U: KNOWN	26.401	260772	-
J: KNOWN	27.997	60999	-
M: THOXYCHLOR	28.518	521549	4.899
U: KNOWN	28.816	562029	-
U: KNOWN	30.836	151160	-
U: KNOWN	31.728	64575	-
U: KNOWN	32.418	368365	-
U: KNOWN	35.648	687992	-
U: KNOWN	39.076	56247	-
U: KNOWN	43.794	74039	-

915326-072
2485-11
FSE-Station
UF=10ml
0.03406L
1:100

This amount was computed using manually entered responses.

Print

36.575

$$\frac{2291095}{33639} \times \frac{10ml}{0.03406L} \times 100 \times 0.365 = 550,000 \mu g/l$$

- Calculated against ATZ 1208
- Analyzed 4-12-91 at 20:09

D.L. $\frac{160 \mu g/kg}{0.365} \times 100 = 44,000 \mu g/kg$

ID
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: 2985-18 DLSample wt: 0.03108 kgLab file ID: SHELTONDL17171Level: LOWDate Received: 03/28/91% Moisture: not dec. 50.4 dec. Date Extracted: 04/01/91Extraction: SoncDate Analyzed: 04/13/91GPC Cleanup: (Y/N) NDilution Factor: 10

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	1600	U
11104-28-2	Aroclor-1221	1600	U
11141-16-5	Aroclor-1232	1600	U
53469-21-9	Aroclor-1242	1600	U
12672-29-6	Aroclor-1248	1600	U
11097-69-1	Aroclor-1254	3200	U
11096-82-5	Aroclor-1260	3200	U
37324-23-5	Aroclor-1262	3200	U
11100-14-4	Aroclor-1268	31000	

ersion: 860/V2.2
ome: VAX2

Printed: 15-Apr-1991 at 15:29:14
GC Project: 608A

User: URISH UF=1

0.03108Kg

SHELTONDL17

13 - Apr - 1991

2:42:28

7:10

Order:			
Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	5
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Mode:

Acquired on node LACE01 system 5 for 608A

49.6 g

Channel:

MEGABORE 608

Conditions

Init Temp. 150° for 1min

Rate - 5°/min

Final Temp 205° for 21min

High Temp - 200°

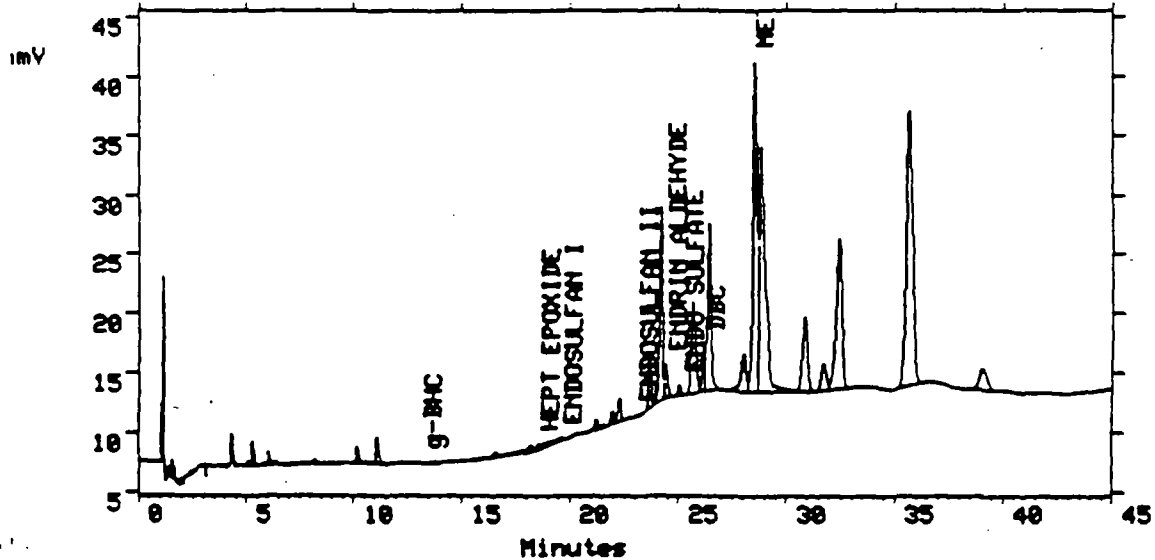
Det Temp - 300°

Sample:

External vial 17

First Plot:

SHELTONDL17 Manual Injection 1 Ch 1



Second Plot:

910326-09

2985-18

FSE-Stat

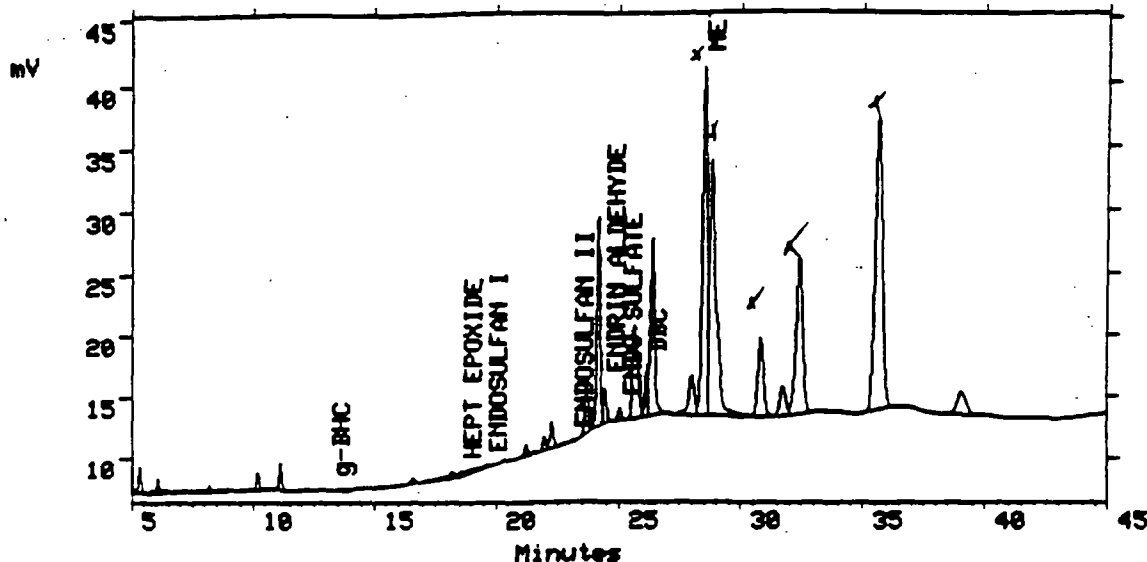
UF=10

0.031084

1:10

49.6%

SHELTONDL17 Manual Injection 1 Ch 1



Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Manually integrated peaks have integration types with 1 or more '*'s.

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

Errors Reported From Integration/Quantitation:
 Integration method file was not found

GC Results:

Peak Name	Ret Time	Area	Amount
U1 KNOWN	5.064	2299	--
U1 KNOWN	5.326	15480	--
U1 KNOWN	5.797	1030	--
U1 KNOWN	6.068	7086	--
U1 KNOWN	6.403	3181	--
U1 KNOWN	6.839	989	--
U1 KNOWN	7.159	2229	--
U1 KNOWN	7.499	1760	--
U1 KNOWN	7.733	1373	--
U1 KNOWN	7.958	779	--
U1 KNOWN	8.196	4399	--
U1 KNOWN	8.512	2660	--
U1 KNOWN	8.956	2269	--
U1 KNOWN	9.662	1761	--
U1 KNOWN	10.200	12491	--
U1 KNOWN	10.673	1027	--
U1 KNOWN	11.131	18099	--
U1 KNOWN	12.248	2014	--
U1 KNOWN	13.797	3900	--
U1 KNOWN	15.685	1278	--
U1 KNOWN	15.953	673	--

00025

Peak Name	Ret Time	Area	Amount
U: KNOWN	16.155	726	-
U: KNOWN	16.619	5623	-
U: KNOWN	18.224	17404	-
H: PT EPOXIDE	18.611	4870	0.012 [^]
E: DOSULFAN I	19.665	14484	0.044 [^]
U: KNOWN	20.371	817	-
U: KNOWN	21.238	9009	-
U: KNOWN	21.567	2293	-
U: KNOWN	21.981	9412	-
U: KNOWN	22.299	21822	-
E: DOSULFAN II	23.130	2522	0.009 [^]
U: KNOWN	23.685	37786	-
U: KNOWN	24.176	156682	-
E: DRIN ALDEHYDE	24.443	27467	0.108 [^]
E: DO SULFATE	25.045	8920	0.027 [^]
U: KNOWN	25.649	115612	-
D: C	26.194	33864	0.143 [^]
U: KNOWN	26.407	172906	-
U: KNOWN	28.000	54621	-
M: THOXYCHLOR	28.524	384007 ^x	3.607 [^]
U: KNOWN	28.821	388369 ^x	-
U: KNOWN	30.841	103531 ^x	-
U: KNOWN	31.736	37740	-
U: KNOWN	32.423	239944 ^x	-
U: KNOWN	35.656	495483 ^x	-
U: KNOWN	39.075	45218	-

910326-099
 2985-15
 ESE-Sludger
 uf = 10n
 0.03108kg
 1:10
 49.6 ug

This amount was computed using manually entered responses.

Amr

$$\frac{1411334}{353639} \Bigg/ \frac{10ml}{0.03108kg} \times 10 \times 0.496 = 31,000 \text{ ug/kg dry wt.}$$

- Calculated against AR 1269

- Analyzed 4-12-91 at 20:09

$$D.L. \frac{160 \mu g/kg}{0.496} \times 10 = 3200 \mu g/kg$$

ID
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: 2985-20 DLSample wt: 0.03228 kgLab file ID: SHELTONDL18181Level: LOWDate Received: 03/28/91% Moisture: not dec. 19.9 dec. Date Extracted: 04/01/91Extraction: SoncDate Analyzed: 04/13/91GPC Cleanup: (Y/N) NDilution Factor: 100

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	10000	U
11104-28-2	Aroclor-1221	10000	U
11141-16-5	Aroclor-1232	10000	U
53469-21-9	Aroclor-1242	10000	U
12672-29-6	Aroclor-1248	10000	U
11097-69-1	Aroclor-1254	20000	U
11096-82-5	Aroclor-1260	20000	U
37324-23-5	Aroclor-1262	20000	U
11100-14-4	Aroclor-1268	400000	

Version: 860/V2.2
Node: VAX2

Printed: 15-Apr-1991 at 15:17:09
GC Project: 608A

Page 1
User: URISH VFA

0.032065

SHELTONDL18

13 - Apr - 1991

3:31:36

7:100

Header:				
Acquisition method	PESTPCB	Processing method	PESTPCB	
Units		System number	5	
Channel	1	Manual injector		
Injection	1	Total injections	1	
Run time	45.00 min	Sample rate	2.00 per sec	
Injection volume	2 uL	Mode	Analysis	
Acquisition version	LAC/E/V2.2	Processing version	V2.2	

Description:
Mode:

Acquired on node LACE01 system 5 for 608A

EO.1 % Sol

Channel:
MEGABORE 608

Sample:
External vial 18

First Plot:

Conditions

Start Temp - 150° for 1 min

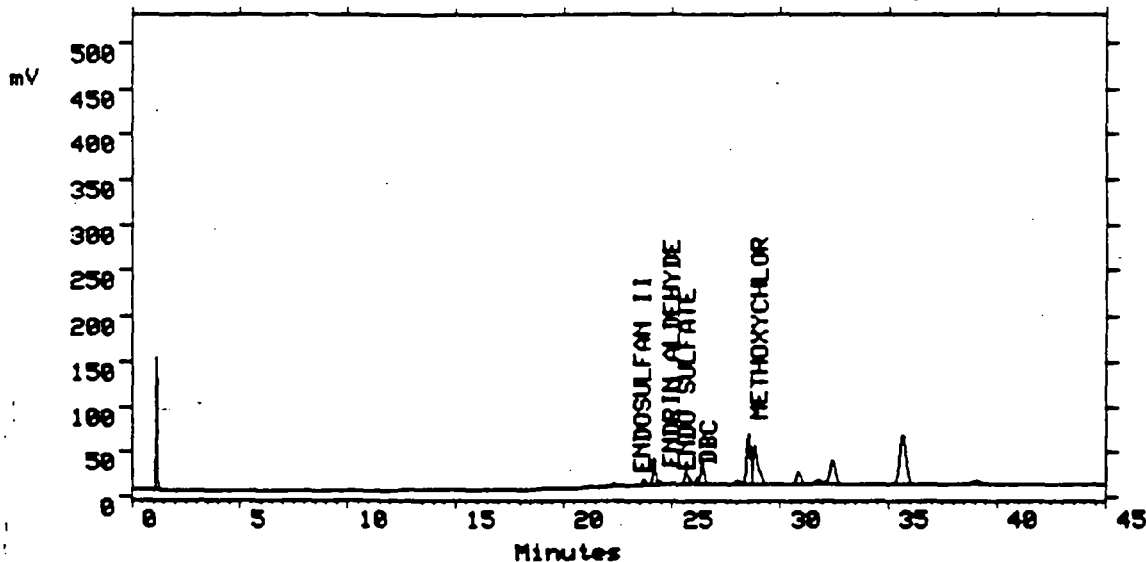
Rate - 5°/min

Final Temp 265° for 21 min

Det Temp - 300°

Inj Temp - 200°

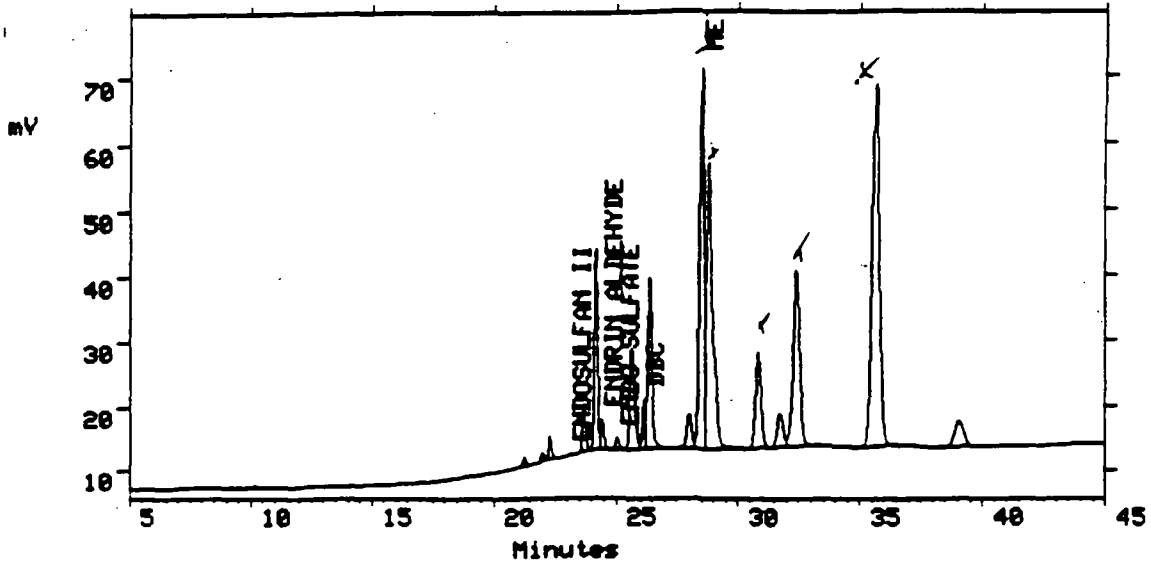
SHELTONDL18 Manual Injection 1 Ch 1



Second Plot:

SHELTONDL18 Manual Injection 1 Ch 1

910327-1
2485-22
EJE-Slabs
UF=16
0.03228
1:100
80.1%



Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Manually integrated peaks have integration types with 1 or more '*'s.

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

Errors Reported From Integration/Quantitation:
 Integration method file was not found

Amr

GC Results:

Peak Name	Ret Time	Area	Amount
U1 KNOWN	10.198	1988	-
U1 KNOWN	21.239	11430	-
U1 KNOWN	21.980	10089	-
U1 KNOWN	22.297	30759	-
E1 DOSULFAN II	23.128	1009	0.004
U1 KNOWN	23.684	63897	-
U1 KNOWN	24.175	284146	-
E1 DRIN ALDEHYDE	24.440	42290	0.166
E1 DO SULFATE	25.043	17090	0.053
U1 KNOWN	25.645	219646	-
D: C	26.188	60924	0.256
U1 KNOWN	26.405	310944	-
U: KNOWN	28.000	73770	-
M: THOXYCHLOR	28.521	789209	7.413
U1 KNOWN	28.818	754208	-
U1 KNOWN	30.840	231008	-
U1 KNOWN	31.737	88498	-
U1 KNOWN	32.424	513998	-
J1 KNOWN	35.651	1169689	-
U1 KNOWN	39.070	106864	-

3.158112 / 10ml
333434 / 0.03228kg
x 100 / 0.801 = 400,000
dry wt
- Calculated against AR 126
- Analyzed 4-12-91 at 20
 D.L. *160 µg/kg*
0.801 x 100 = 20,0
µg

This amount was computed using manually entered responses.

00028

ID
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: 2985-30 DLSample wt: 0.03199 kgLab File ID: SHELTONDL21211Level: LOWDate Received: 03/28/91% Moisture: not dec. 12.5 dec. Date Extracted: 04/01/91Extraction: SoncDate Analyzed: 04/13/91GPC Cleanup: (Y/N) NDilution Factor: 500

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	46000	U
11104-28-2	Aroclor-1221	46000	U
11141-16-5	Aroclor-1232	46000	U
53469-21-9	Aroclor-1242	46000	U
12672-29-6	Aroclor-1248	46000	U
11097-69-1	Aroclor-1254	91000	U
11096-82-5	Aroclor-1260	91000	U
37324-23-5	Aroclor-1262	91000	U
11100-14-4	Aroclor-1268	5700000	

Version: 860/V2.2
Name: VAX2

Printed: 15-Apr-1991 at 15:32:04
GC Project: 608A

Page 1
User: URISH VP

0.03199

S: SHELTONDL21

13 - Apr - 1991

5:58:54

1:50

Header:			
Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	5
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:
Mode:

Acquired on node LACE01 system 5 for 608A

87.5% Sol

Channel:
MEGABORE 608

Conditions

Inject Temp - 150° for 1 min

Rate - 5°/min

Final Temp - 265° for 21 min

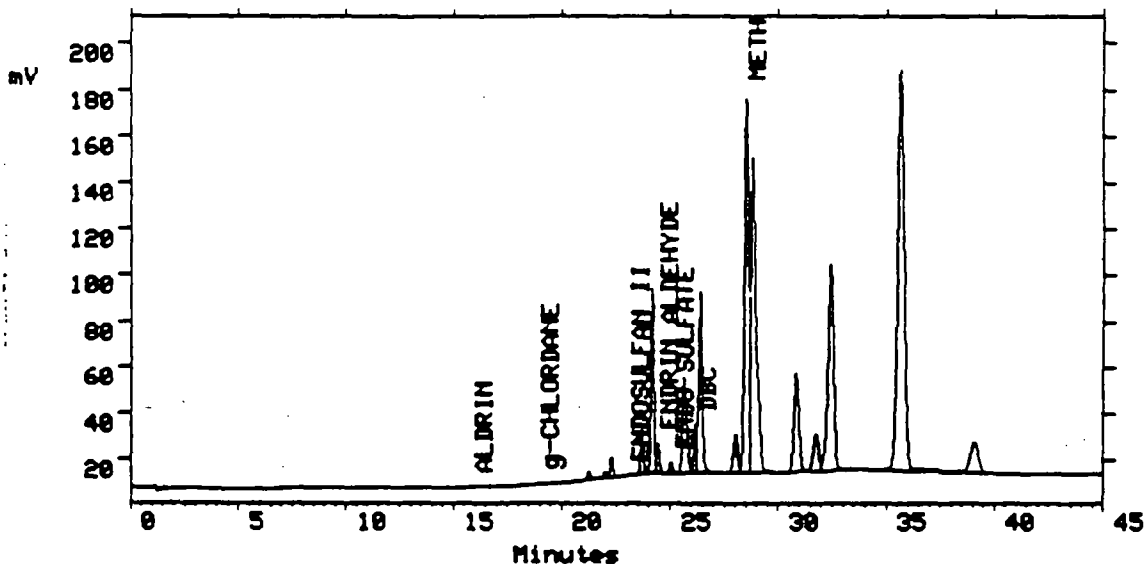
Chy Temp - 200°

Det Temp - 300°

Sample:
External vial 21

First Plot:

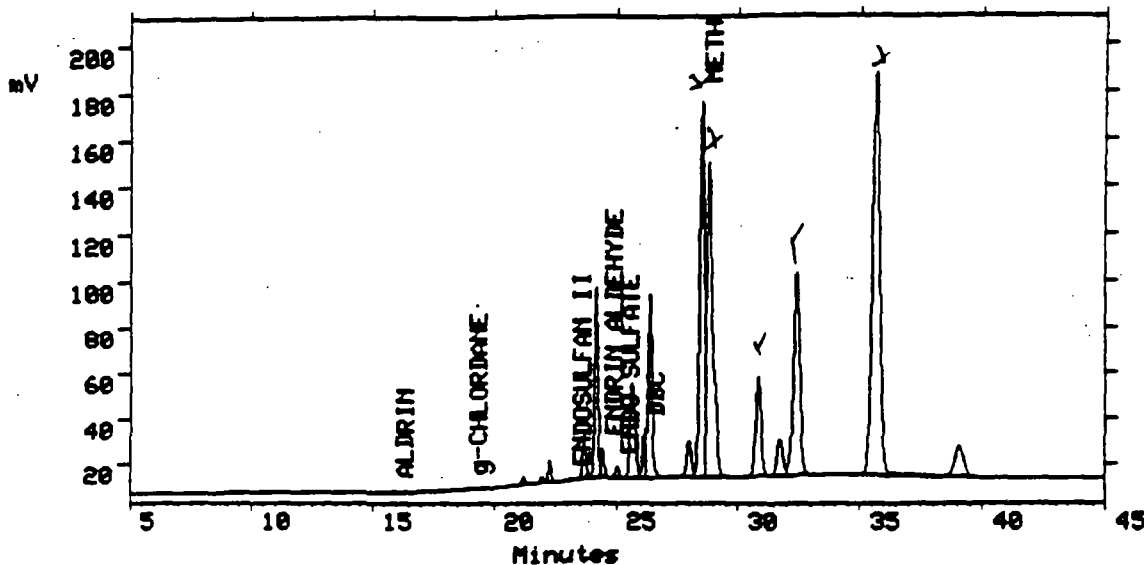
SHELTONDL21 Manual Injection 1 Ch 1



Second Plot:

910327-1.

SHELTONDL21 Manual Injection 1 Ch 1



2985-3
 FSE-Slu
 V_f = 10.
 0.03494
 1.50
 87.5%

Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Manually integrated peaks have integration types with 1 or more '*'s.

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

Errors Reported From Integration/Quantitation:
 Integration method file was not found

GC Results:

Peak Name	Ret Time	Area	Amount
U1 KNOWN	7.065	851	-
A: DRIN	15.922	2277	0.008^
U1 KNOWN	18.330	704	-
g- CHLORDANE	18.921	1483	0.007^
U1 KNOWN	19.151	1328	-
U1 KNOWN	21.238	29935	-
U1 KNOWN	21.705	1827	-
U1 KNOWN	21.977	21174	-
U1 KNOWN	22.295	80020	-
E1 DOSULFAN II	23.120	2378	0.008^
U1 KNOWN	23.683	169123	-
U1 KNOWN	24.173	765536	-
E1 DRIN ALDEHYDE	24.440	112754	0.444^
E1 DO SULFATE	25.043	47976	0.148^
U1 KNOWN	25.642	587184	-
D1 C	26.191	170171	0.716^
U1 KNOWN	26.403	922294	-
U1 KNOWN	27.999	213624	-
M: THOXYCHLOR	28.519	2208828*	20.748^
U1 KNOWN	28.820	2317444^	-
U1 KNOWN	30.841	685385^	-

00032

Peak Name	Ret Time	Area	Amount
UI KNOWN	31.741	267746	-
UI KNOWN	32.424	1644730	-
UI KNOWN	35.651	3765145	-
UI KNOWN	39.074	336402	-

91037-
2985-32
FSE-Sub

This amount was computed using manually entered responses.

UF=101
0.031996

- Area

$$\frac{10621532}{333634} \times \frac{10 \text{ml}}{0.0001} \times 500 \times 0.875 = 5,700,000 \text{ } \mu\text{g/Kg dry wt}$$

7.500

87.5

- Calculated against ARTD68

- Analyzed 4-12-91 at 20:09

$$\text{D.L. } \frac{160 \text{ } \mu\text{g/Kg}}{0.875} \times 500 = 91,000 \text{ } \mu\text{g/Kg}$$

1D
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: 2999-4 DLSample wt: 0.03245 kgLab file ID: SHELTONDL23231Level: LOWDate Received: 03/29/91% Moisture: not dec. 32.0 dec. Date Extracted: 04/01/91Extraction: SoncDate Analyzed: 04/13/91GPC Cleanup: (Y/N) NDilution Factor: 50

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	5900	U
11104-28-2	Aroclor-1221	5900	U
11141-16-5	Aroclor-1232	5900	U
53469-21-9	Aroclor-1242	5900	U
12672-29-6	Aroclor-1248	5900	U
11097-69-1	Aroclor-1254	12000	U
11096-82-5	Aroclor-1260	12000	U
37324-23-5	Aroclor-1262	12000	U
11100-14-4	Aroclor-1268	370000	

Session: 860/V2.2
Node: VAX2

Printed: 15-Apr-1991 at 15:35:44
GC Project: 608A

Page 1
User: URISH

uf = 10

0.03245 kg

SHELTONDL23

13 - Apr - 1991

7:37:01

1.50

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	5
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Mode:

Acquired on node LACE01 system 5 for 608A

Channel:

MEGABORE 608

Sample:

External vial 23

First Plot:

Conditions

Start Temp - 150° for 1 min

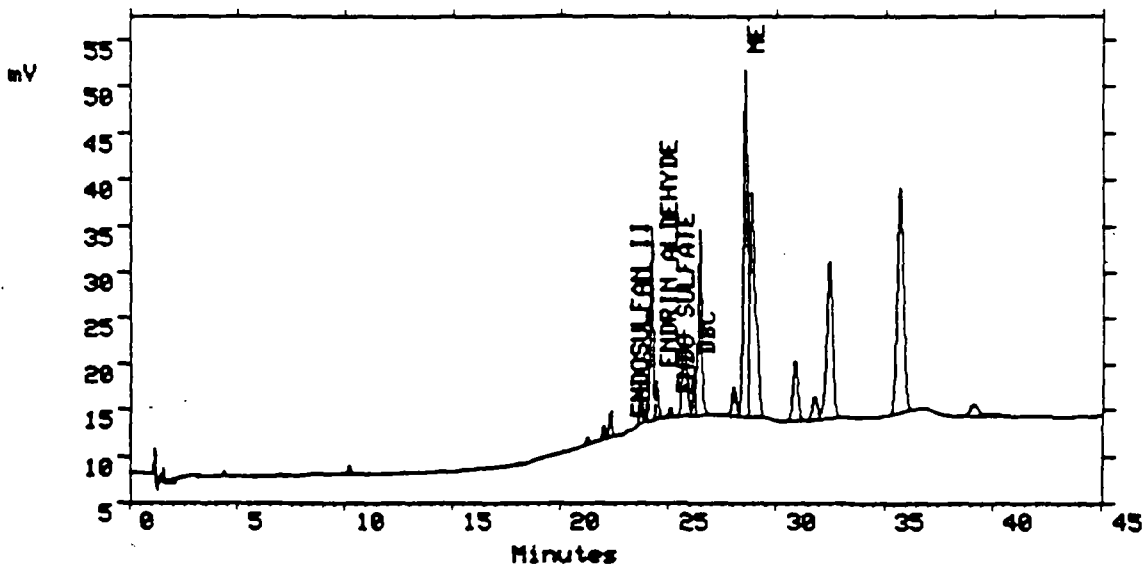
Rate - 5°/min

Final Temp - 266° for 21 min

dry Temp - 200°

Det Temp - 300°

SHELTONDL23 Manual Injection 1 Ch 1



Second Plot:

910325-064

2999-4

FSE-shell

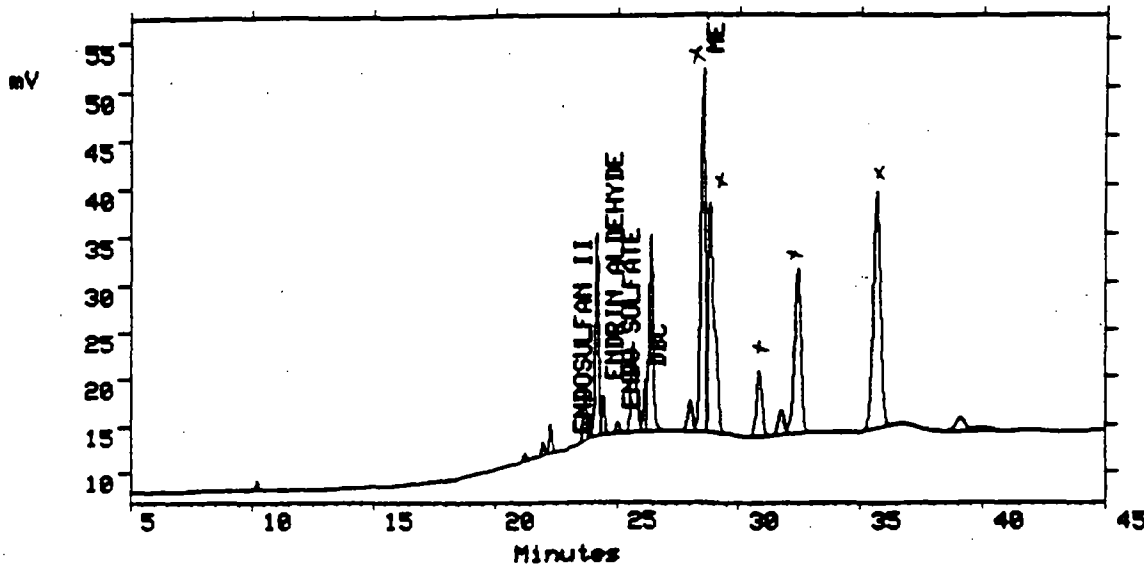
UF = 100

0.03245

1.50

68%

SHELTONDL23 Manual Injection 1 Ch 1



Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Manually integrated peaks have integration types with 1 or more '*'s.

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

Errors Reported From Integration/Quantitation:
 Integration method file was not found

GC Results:

Peak Name	Ret Time	Area	Amount
U KNOWN	5.327	699	-
U KNOWN	6.075	1034	-
U KNOWN	7.092	729	-
U KNOWN	7.492	1017	-
U KNOWN	7.959	587	-
U KNOWN	8.960	719	-
U KNOWN	10.202	8133	-
U KNOWN	11.133	662	-
U KNOWN	13.806	898	-
U KNOWN	16.617	2046	-
U KNOWN	18.275	8463	-
U KNOWN	21.241	7593	-
U KNOWN	21.712	1767	-
U KNOWN	21.982	11983	-
U KNOWN	22.299	28121	-
E DOSULFAN II	23.132	1107	0.004*
U KNOWN	23.687	45100	-
U KNOWN	24.178	202035	-
E DRIN ALDEHYDE	24.444	38867	0.153*
E DO SULFATE	25.047	11713	0.036*
U KNOWN	25.652	146154	-

00036

Peak Name	Ret Time	Area	Amount
DBC	26.199	41276	0.174
UI KNOWN	26.408	241145	-
UI KNOWN	28.004	44426	-
M THOXYCHLOR	28.526	511785	4.807
UI KNOWN	28.826	443891	-
UI KNOWN	30.847	109179	-
UI KNOWN	31.743	43050	-
UI KNOWN	32.430	330592	-
UI KNOWN	35.666	519979	-
UI KNOWN	39.092	36736	-
UI KNOWN	39.929	15960	-

910325-6
 2999-
 EST-50
 4/10
 0.0324
 1:5

This amount was computed using manually entered responses.

68%

Abat -

$$\frac{191542}{333639} \times \frac{100}{0.03245} \times 50 \times 0.68 = 370,000 \text{ ng/kg dry wt}$$

- Calculated against ATC 1268

- Analyzed 4-12-91 at 20:09

D.L. $\frac{160 \mu\text{g/kg}}{0.68} \times 50 = 12,000 \mu\text{g/kg}$

ID
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: 2999-11 DLSample wt: 0.03167 kgLab file ID: SHELTONDL24241Level: LOWDate Received: 03/29/91% Moisture: not dec. dec. Date Extracted: 04/01/91Extraction: SoncDate Analyzed: 04/13/91GPC Cleanup: (Y/N) NDilution Factor: 25

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	2000	U
11104-28-2	Aroclor-1221	2000	U
11141-16-5	Aroclor-1232	2000	U
53469-21-9	Aroclor-1242	2000	U
12672-29-6	Aroclor-1248	2000	U
11097-69-1	Aroclor-1254	4000	U
11096-82-5	Aroclor-1260	4000	U
37324-23-5	Aroclor-1262	4000	U
11100-14-4	Aroclor-1268	100000	

* - Not enough sample to perform Total Solids Analysis.

Version: 860/V2.2
Node: VAX2

Printed: 15-Apr-1991 at 15:37:23
GC Project: 608A

FSE Sta
Page 1
User: URISH UF:
0.001671

S: SHELTONDL24

13 - Apr - 1991

8:26:03

1:25

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	5
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Mode:
Acquired on node LACE01 system 5 for 608A

** - Not enough slow
to test Total Sol*

Channel:
MEGABORE 608

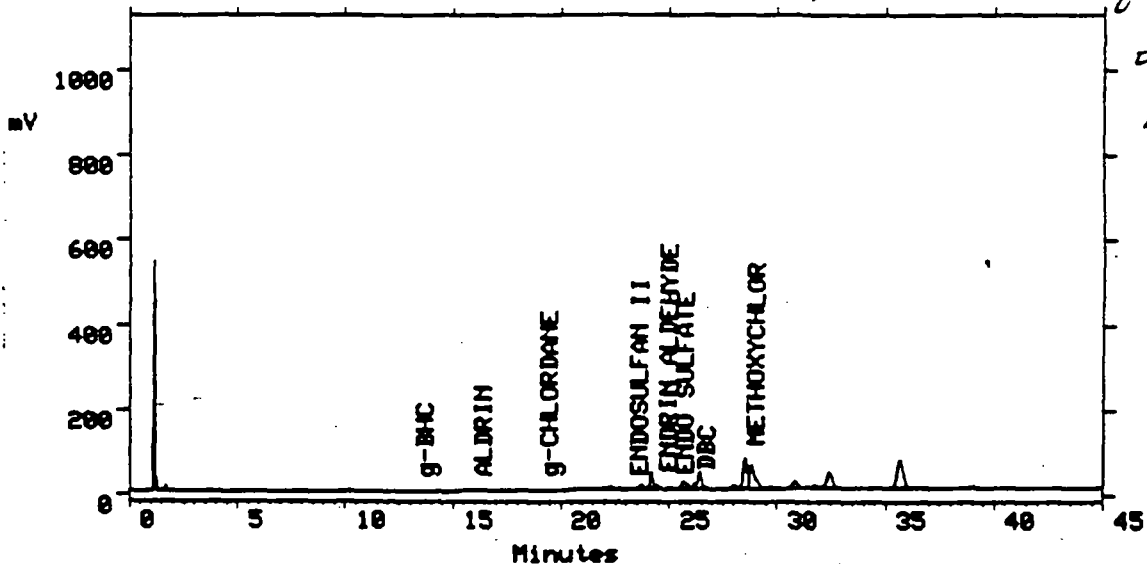
Sample:
External vial 24

Conditions

*Start Temp - 150° for 1 min
Rate - 5°/min
Final Temp - 265° for 21 min*

First Plot:

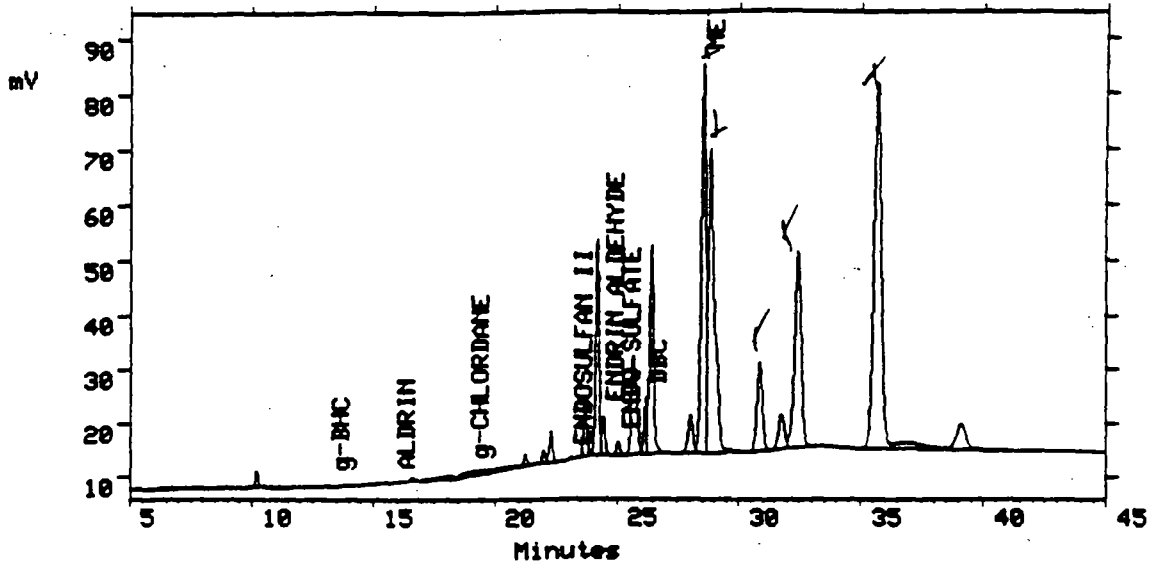
SHELTONDL24 Manual Injection 1 Ch 1



*dry Temp - 2
Det Temp - 3*

Second Plot:

SHELTONDL24 Manual Injection 1 Ch 1



910375-
 2999-1
 FSE-SL
 UP-1
 6.0316
 1:25

Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Manually integrated peaks have integration types with 1 or more '*'s.

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

Errors Reported From Integration/Quantitation:
 Integration method file was not found

GC Results:

Peak Name	Ret Time	Area	Amount
U KNOWN	5.320	1722	-
U KNOWN	5.594	673	-
U KNOWN	6.247	2135	-
U KNOWN	6.421	671	-
U KNOWN	6.703	1024	-
U KNOWN	6.913	665	-
U KNOWN	7.131	726	-
U KNOWN	7.408	738	-
U KNOWN	8.208	988	-
U KNOWN	10.203	24039	-
U KNOWN	11.133	615	-
g-BHC	13.180	3527	0.014*
U KNOWN	13.883	998	-
U KNOWN	15.113	777	-
A-DRIN	15.914	706	0.003*
U KNOWN	16.620	6490	-
U KNOWN	18.251	32239	-
g-CHLORDANE	18.935	24515	0.120*
U KNOWN	19.158	11979	-
U KNOWN	21.240	72623	-
U KNOWN	21.658	2721	-

00040

1D
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: 2999-15 DLSample wt: 0.03174 kgLab file ID: SHELTONDL25251Level: LOWDate Received: 03/29/91% Moisture: not dec. 27.0 dec. Date Extracted: 04/01/91Extraction: SoncDate Analyzed: 04/13/91GPC Cleanup: (Y/N) NDilution Factor: 200

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	22000	U
11104-28-2	Aroclor-1221	22000	U
11141-16-5	Aroclor-1232	22000	U
53469-21-9	Aroclor-1242	22000	U
12672-29-6	Aroclor-1248	22000	U
11097-69-1	Aroclor-1254	44000	U
11096-82-5	Aroclor-1260	44000	U
37324-23-5	Aroclor-1262	44000	U
11100-14-4	Aroclor-1268	1500000	

Session: 860/V2.2 Printed: 15-Apr-1991 at 15:40:16
Node: VAX2 GC Project: 608A

S: SHELTONDL25 13 - Apr - 1991 9:15:05

1.200

Header:			
Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	5
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

7376 SW

Description:
Mode:
Acquired on node LACE01 system 5 for 608A

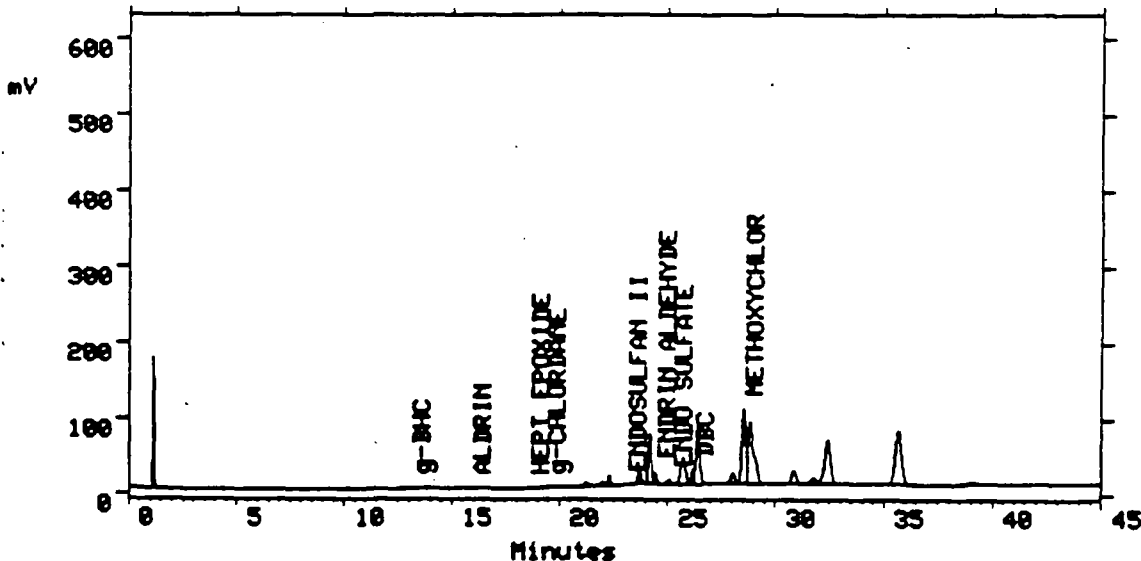
Channel:
MEGABORE 608

Sample:
External vial 25

Conditions
Inlet Temp - 150° for 1
Rate - 5"/min
Furnace Temp - 365° for
Dry Temp - 260°
Det Temp - 300°

First Plot:

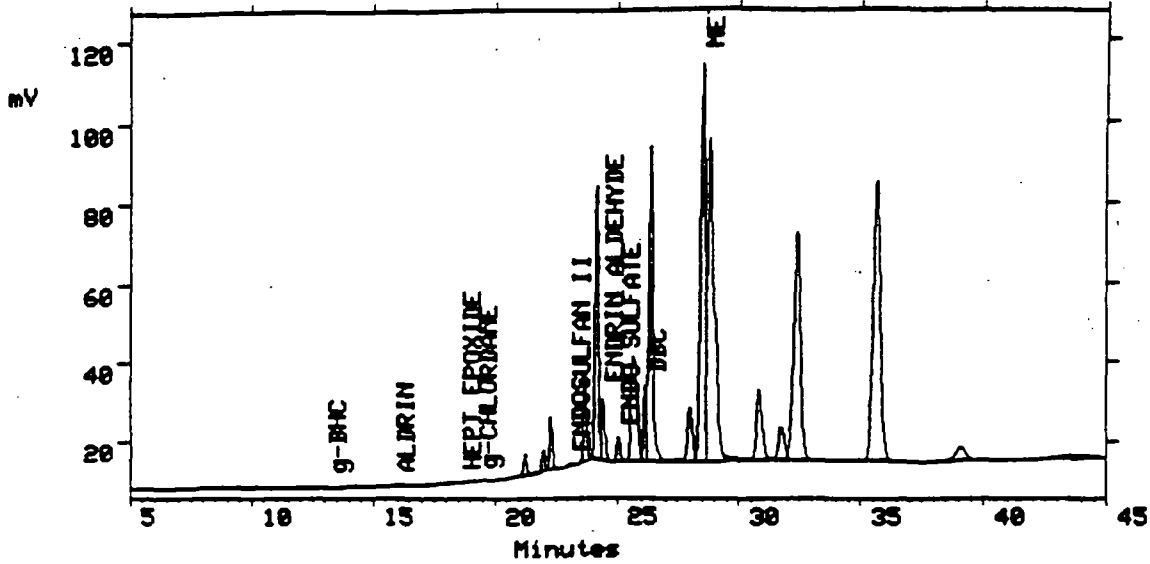
SHELTONDL25 Manual Injection 1 Ch 1



Second Plot:

SHELTONDL25 Manual Injection 1 Ch 1

9/10/35-0
 2999-1
 FSE-Side
 VF=K
 0.0317
 1.208
 73%



Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Manually integrated peaks have integration types with 1 or more '*'s.

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

Errors Reported From Integration/Quantitation:
 Integration method file was not found

GC Results:

Peak Name	Ret Time	Area	Amount
UI KNOWN	10.199	2318	-
UI KNOWN	11.306	833	-
g-BHC	13.072	2929	0.011
UI KNOWN	14.578	2448	-
UI KNOWN	15.279	1343	-
A: DRIN	15.915	1365	0.005
UI KNOWN	16.142	862	-
UI KNOWN	16.380	586	-
UI KNOWN	17.271	823	-
UI KNOWN	18.320	2178	-
HEPT EPOXIDE	18.593	607	0.002
g-CHLORDANE	18.921	1246	0.006
UI KNOWN	19.157	1453	-
UI KNOWN	21.239	45924	-
UI KNOWN	21.667	3240	-
UI KNOWN	21.978	44586	-
UI KNOWN	22.298	117541	-
EI DOSULFAN II	23.116	6997	0.025
UI KNOWN	23.684	186562	-
UI KNOWN	24.176	639057	-
EI DRIN ALDEHYDE	24.443	148896	0.586

00044

Peak Name	Ret Time	Area	Amount
ENDO SULFATE	25.048	59056	0.182*
UI KNOWN	25.666	476628	-
DI C	26.201	152329	0.641*
UI KNOWN	26.407	929358	-
UI KNOWN	28.001	207499	-
METHOXYCHLOR	28.525	1355022*	12.728*
UI KNOWN	28.824	1576035*	-
UI KNOWN	30.846	303538*	-
UI KNOWN	31.741	150904	-
UI KNOWN	32.424	1137732*	-
UI KNOWN	35.655	1497699*	-
UI KNOWN	39.088	100037	-
UI KNOWN	43.889	87892	-

910325
 2999-
 FSE-2
 UF:
 0.0317
 1.2
 73%

* This amount was computed using manually entered responses.

Amount

$$\frac{5870026}{333639} \times \frac{10ml}{0.03174} \times 200 \times 0.73 = 1,500,000 \text{ dry wt.}$$

- Calculated against AR 1268

- Analyzed 4-12-91 at 20:04

D.L. $\frac{160 \mu g/Kg}{0.73} \times 200 = 44,000 \mu g/Kg$

ID
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: 2999-23 DLSample wt: 0.03181 kgLab file ID: SHELTONDL27271Level: LOWDate Received: 03/29/91% Moisture: not dec. 27.7 dec. Date Extracted: 04/03/91Extraction: SoncDate Analyzed: 04/13/91GPC Cleanup: (Y/N) NDilution Factor: 20

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	2200	U
11104-28-2	Aroclor-1221	2200	U
11141-16-5	Aroclor-1232	2200	U
53469-21-9	Aroclor-1242	2200	U
12672-29-6	Aroclor-1248	2200	U
11097-69-1	Aroclor-1254	4400	U
11096-82-5	Aroclor-1260	4400	U
37324-23-5	Aroclor-1262	4400	U
11100-14-4	Aroclor-1268	72000	

Version: 860/V2.2

Printed: 15-Apr-1991 at 15:46:17

Job: VAX2

GC Project: 608A

0.03181 kg

S: SHELTONDL27

13 - Apr - 1991

10:53:10

1.70

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	5
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Code:

Acquired on node LACE01 system 5 for 608A

72.3% Sol

Channel:

MEGABORE 608

Condition

Start Temp - 150° for 1 min

Rate - 5°/min

Final Temp - 265° for 2 min

Inj Temp - 200°

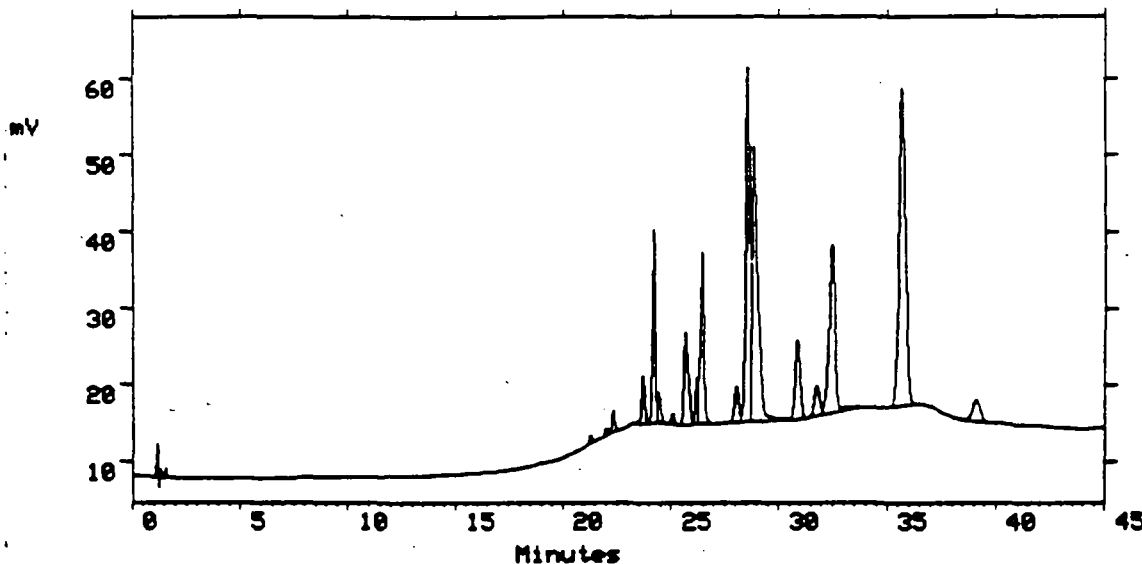
Det Temp - 300°

Sample:

External vial 27

First Plot:

SHELTONDL27 Manual Injection 1 Ch 1



Second Plot:

910 378-131

SHELTONDL27 Manual Injection 1 Ch 1

2949-23

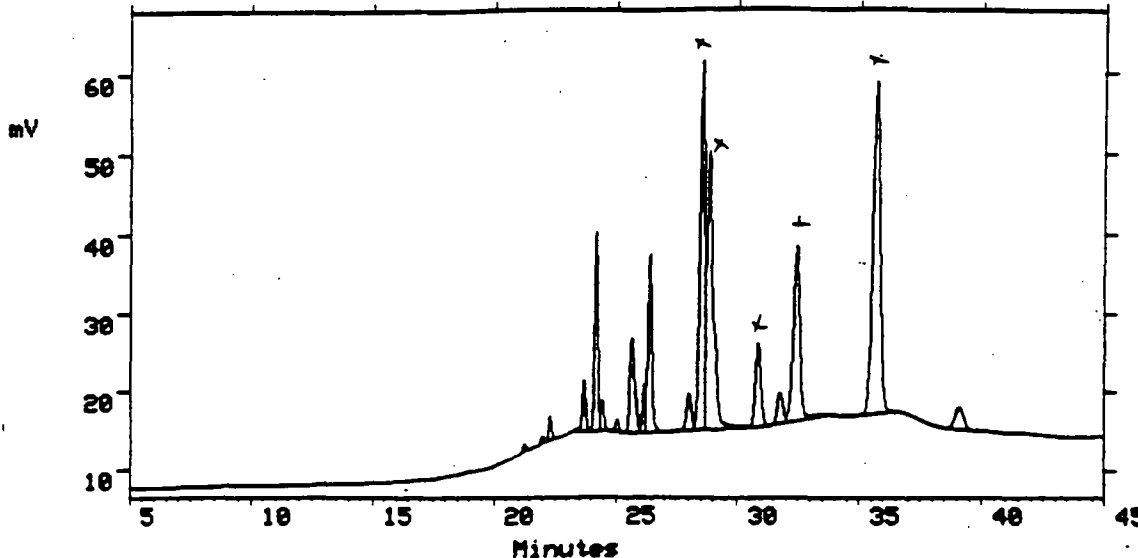
FSE-Shelton

UF=18m

0.03181 kg

1:20

72.375



Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Manually integrated peaks have integration types with 1 or more '*'s.

Errors Reported From Integration/Quantitation:

Integration method file was not found
 Calibration information not available for channel 1

GC Results:

Peak Name	Ret Time	Area	Amount
UI KNOWN	13.873	549	-
UI KNOWN	21.247	9487	-
UI KNOWN	21.986	8018	-
UI KNOWN	22.301	27160	-
UI KNOWN	23.686	65764	-
UI KNOWN	24.180	234782	-
UI KNOWN	24.445	38072	-
UI KNOWN	25.047	14663	-
UI KNOWN	25.650	175308	-
UI KNOWN	26.200	50303	-
UI KNOWN	26.412	262157	-
UI KNOWN	28.005	66715	-
UI KNOWN	28.529	623125*	-
UI KNOWN	28.828	649175*	-
UI KNOWN	30.847	172183*	-
UI KNOWN	31.747	68110	-
UI KNOWN	32.435	424585*	-
UI KNOWN	33.663	13659	-
UI KNOWN	35.669	887520*	-
UI KNOWN	39.080	69354	-

- Calculated against A.

- Analyzed 4-12-91

D.L. $\frac{160 \mu\text{g/kg}}{0.723} \times 20 = 4400 \mu\text{g/l}$

- Amt

$$\frac{2756588}{333439} \times \frac{10 \mu\text{l}}{0.03181} \times 20\% \times 0.723 = 72,000 \mu\text{g/kg dry wt.}$$

00045

ID
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: 3202-1DLSample wt: 0.03234 kgLab file ID: EPA23231Level: LOWDate Received: 04/19/91% Moisture: not dec. 42.0 dec. Date Extracted: 04/22/91Extraction: SoncDate Analyzed: 05/02/91GPC Cleanup: (Y/N) NDilution Factor: 500

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	69000	U
11104-28-2	Aroclor-1221	69000	U
11141-16-5	Aroclor-1232	69000	U
53469-21-9	Aroclor-1242	69000	U
12672-29-6	Aroclor-1248	69000	U
11097-69-1	Aroclor-1254	140000	U
11096-82-5	Aroclor-1260	140000	U
37324-23-5	Aroclor-1262	140000	U
11100-14-4	Aroclor-1268	1200000	

FORM I PEST

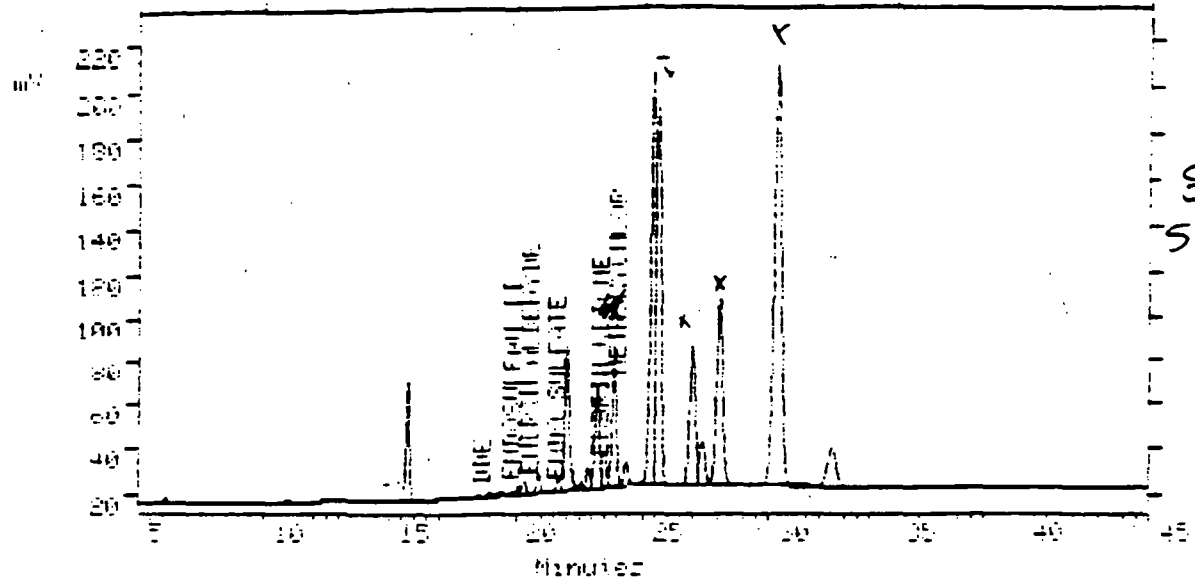
1/87 REV.

00049

Second Run

910415-145DL

EPA83 Manual Injection 1 Ch 1



VF-10-1
 Wt. - 3
 52.0%

Conditions:

Sample amount: Internal standard amt
 Scale factor: Mode: Analyser
 Keyboards of Remote Devices Unlocked

Peak Detect Threshold: 1 Peak Width: 20 sec
 Integration Delay: 5.00 min Area Reject: 500
 Integration Events:

Time	Event	Parameter
18.00	Set baseline point	20
24.50	Set baseline point	20

Do Not Update Retention Time: Retention Time Offset: 0.000 sec
 Relative Peak Window: 12 Absolute Peak Window: 5 sec

GC Results:

Peak Name	Ret. Time	Area	Amount
UNKNOWN	6.092	22782	-
UNKNOWN	10.768	13494	-
UNKNOWN	15.241	51252	-
UNKNOWN	17.105	1808	-
DDE	18.260	1605	0.001*
UNKNOWN	18.524	5482	-
UNKNOWN	18.970	30482	-
ENDOSULFAN JJ	19.414	19610	0.015*
UNKNOWN	19.872	17044	-
ENDRIN ALDEHYDE	20.104	40283	0.037*
UNKNOWN	20.357	74454	-
UNKNOWN	20.892	102115	-
ENDO SULFATE	21.167	4784	0.004*
UNKNOWN	21.361	4128	-
UNKNOWN	21.598	45615	-
UNKNOWN	22.003	861386	-
UNKNOWN	22.598	37884	-
ENDRIN KETONE	22.873	107096	0.084*
METHOXYCHLOR	23.212	521949	0.697*

00051

3202-10

ESC 5-

910415-1450

Spec Name	Area	Height	Amount
UNKNOWN	25.708	149501	-
UNKNOWN	25.885	728970*	-
UNKNOWN	26.138	134410	-
UNKNOWN	25.399	2429340*	-
UNKNOWN	25.214	2190740*	-
UNKNOWN	25.978	841410*	-
UNKNOWN	27.071	307040	-
UNKNOWN	25.048	1405000*	-
UNKNOWN	30.320	3576880*	-
UNKNOWN	22.513	419516	-

* This amount was computed using manually entered responses.

amt Ar 1263 det : $\frac{719000}{800000} / 0.58 = 1,240,000$ dry wt

$\frac{10942000 \text{ M+L}}{2354000} / \frac{10 \text{ ml}}{0.03234 \text{ kg}} / 500 = 719,000 \text{ } \mu\text{g/kg} \div 0.58 =$

Calc against Ar 1267 at analyzed @ 5.2.91 at ~~0.04~~ 7.19

Report 1,200,000 $\mu\text{g/kg}$

Version: 860/V2.2
Mode: VAX2

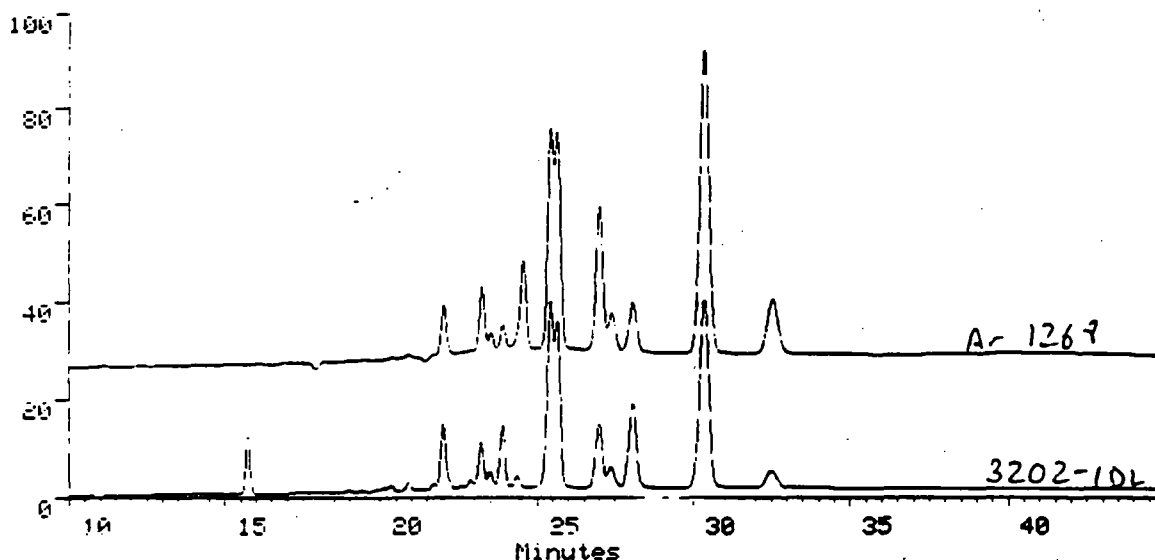
Printed: 2-May-1991 at 10:44:15
GC Project: DB-5

Page 1
User: WEBSTER

Compare Report

EPA22 Manual Inj 1 Ch 1

EPA23 Manual Inj 1 Ch 1



Plot Parameters

Plot Title	Start	End	Minimum	Maximum
EPA22 Manual Inj 1 Ch 1	10.00 min	45.00 min	-50.000	200.0
EPA23 Manual Inj 1 Ch 1	10.00 min	45.00 min	13.425	500.0

ID
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: 3202-2 DLSample wt: 0.03430 kgLab file ID: EPA17171Level: LOWDate Received: 04/19/91% Moisture: not dec. 17.2 dec. Date Extracted: 04/22/91Extraction: SoncDate Analyzed: 05/02/91GPC Cleanup: (Y/N) NDilution Factor: 100

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	9700	U
11104-28-2	Aroclor-1221	9700	U
11141-16-5	Aroclor-1232	9700	U
53469-21-9	Aroclor-1242	9700	U
12672-29-6	Aroclor-1248	9700	U
11097-69-1	Aroclor-1254	19000	U
11096-82-5	Aroclor-1260	19000	U
37324-23-5	Aroclor-1262	19000	U
11100-14-4	Aroclor-1268	270000	

FORM I PEST

1/87 REV.

00054

Version: 860/V2.2
Node: VAX2

Printed: 2-May-1991 at 08:31:58
GC Project: DB-5

Page 1
User: WEBSTER

EPA 17

2 - May - 1991

3 : 16 : 19

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	6
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Node:

Acquired on node LACE01 system 6 for DB-5

Channel:

DB-5

Method:

DB-5 CAPILLARY COLUMN
INITIAL TEMP: 150 DEG
FINAL TEMP: 265 DEG
RAMP: 5 DEG/ MIN

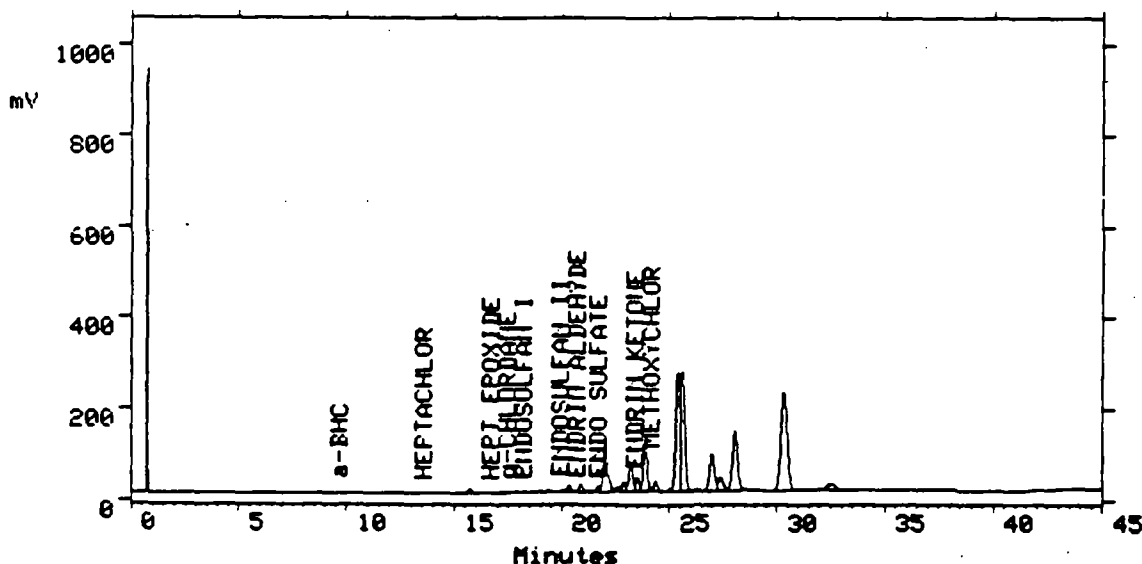
INITIAL TIME: 1 MIN
FINAL TIME: 31 MIN
RUN TIME: 35 MIN

Sample:

External vial 17

First Plot:

EPA17 Manual Injection 1 Ch 1



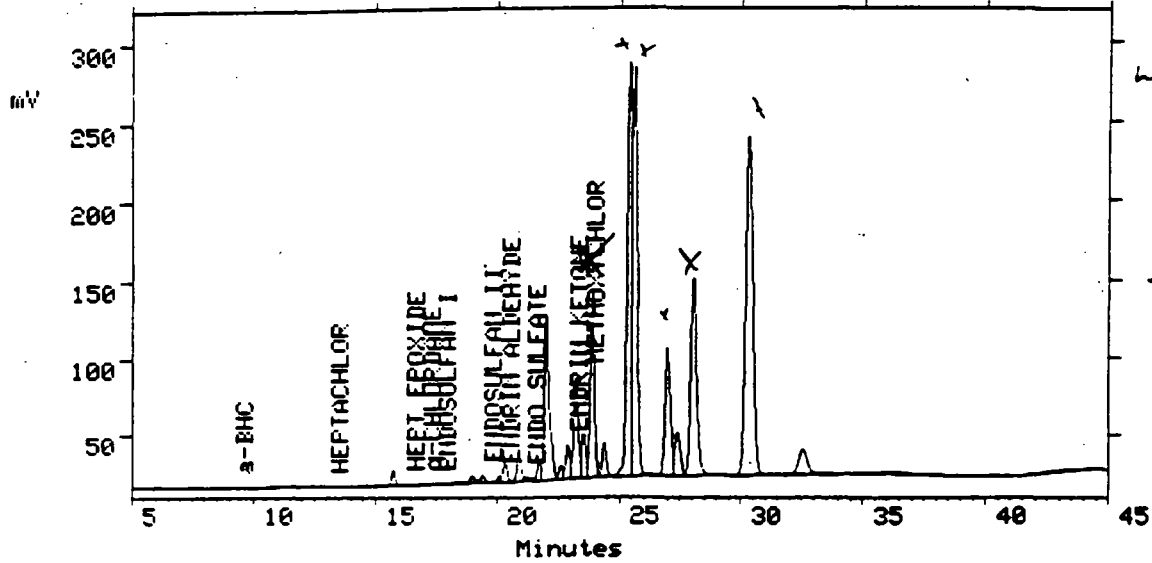
00055

Second Plot:

910415-153DL

3000 2DL
 ESE Sme 14.
 v f - 11.14
 wt. - 34.30g

EPA17 Manual Injection 1 Ch 1



82.8%
 Solid

Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Peak Detect Threshold 1 Peak Width 20 sec
 Integration Delay 5.00 min Area Reject 500
 Integration Events:

Time	Event	Parameter
18.00	Set baseline point	20
24.60	Set baseline point	20

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

GC Results:

Peak Name	Ret Time	Area	Amount
UNKNOWN	6.085	6065	-
UNKNOWN	8.089	598	-
UNKNOWN	8.439	741	-
a-BHC	9.150	978	0.001^
UNKNOWN	9.654	919	-
UNKNOWN	10.727	3730	-
UNKNOWN	10.964	1892	-
UNKNOWN	11.412	2146	-
UNKNOWN	12.424	9830	-
UNKNOWN	12.822	2787	-
HEPTACHLOR	13.099	3427	0.003^
UNKNOWN	13.921	7264	-
UNKNOWN	14.643	3906	-
UNKNOWN	15.019	1715	-
UNKNOWN	15.734	107484	-
HEPT EPOXIDE	16.188	7335	0.006^
g-CHLORDANE	16.863	4173	0.006^
UNKNOWN	17.098	7199	-
ENDOSULFAN I	17.300	3015	0.003^

00056

3203 PDL
 ESE Shelter
 910415-153 DL

Peak Name	Ret Time	Area	Amount
UNKNOWN	17.598	1854	-
UNKNOWN	18.504	24966	-
UNKNOWN	18.966	63138	-
ENDOSULFAN II	19.407	62819	0.059 [^]
ENDRIN ALDEHYDE	20.109	37339	0.034 [^]
UNKNOWN	20.326	162301	-
UNKNOWN	20.886	209539	-
ENDO SULFATE	21.153	28648	0.025 [^]
UNKNOWN	21.343	12841	-
UNKNOWN	21.696	127387	-
UNKNOWN	22.000	1572821	-
UNKNOWN	22.595	96916	-
ENDRIN KETONE	22.872	259449	0.204 [^]
METHOXYCHLOR	23.208	842400	1.045 [^]
UNKNOWN	23.506	376173	-
UNKNOWN	23.883	1427069 ^x	-
UNKNOWN	24.366	262986	-
UNKNOWN	25.398	3562873 ^y	-
UNKNOWN	25.612	3442570 ^x	-
UNKNOWN	26.246	23453	-
UNKNOWN	26.981	1307113 ^K	-
UNKNOWN	27.374	443159	-
UNKNOWN	28.046	2226363 ^x	-
UNKNOWN	30.321	4492704 ^x	-
UNKNOWN	32.520	451833	-
UNKNOWN	36.274	94751	-
UNKNOWN	44.438	111996	-

This amount was computed using manually entered responses.

Ant Ar 1268 det: $\frac{221000}{0.828} = 270000 \text{ mg/l}$
 $\frac{15030000}{14230000} \text{ mg/l} / 100 = 205000 \text{ } \mu\text{g/kg}$
 $\frac{2014000}{1979000} / 0.034304 \text{ } \mu\text{g/kg}$
 dry wt

Calc against Ar 1268 std analyzed 5-2-91 at 0:01

Report 270,000 $\mu\text{g/kg}$

Version: 860/V2 2
Mode: VAX2

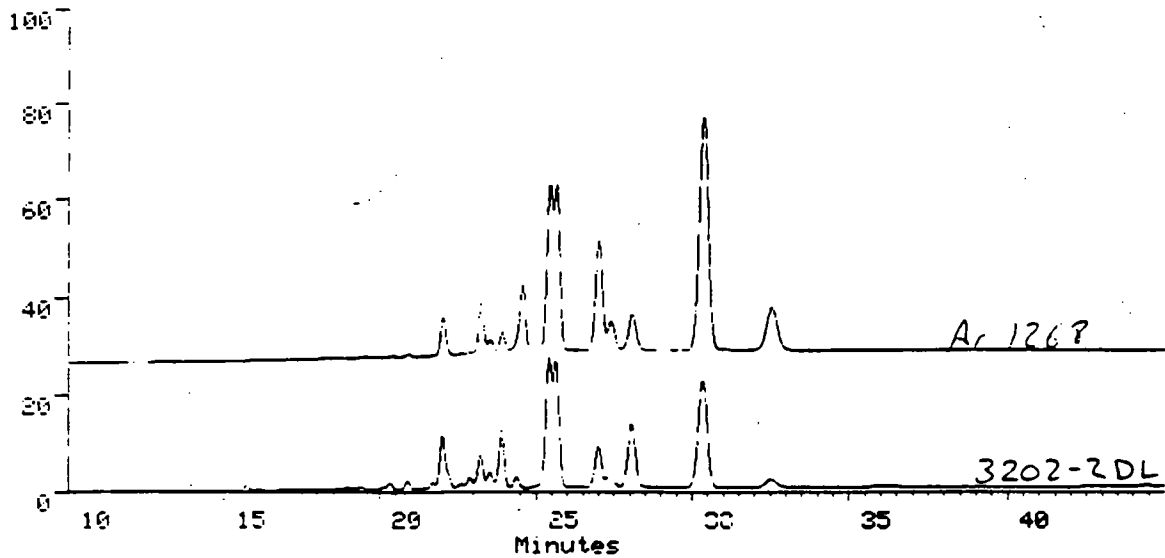
Printed: 2-May-1991 at 10:46:55
GC Project: DB-5

Page 1
User: WEBSTER

Compare Report

EPA13 Manual Inj 1 Ch 1

EPA17 Manual Inj 1 Ch 1



Plot Parameters

Plot Title	Start	End	Minimum	Maximum
EPA13 Manual Inj 1 Ch 1	10.00 min	45.00 min	-50.000	200.0
EPA17 Manual Inj 1 Ch 1	10.00 min	45.00 min	14.094	1.000e+

ID
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: 3202-3 DLSample wt: 0.03354 kgLab file ID: EPA24241Level: LOWDate Received: 04/19/91% Moisture: not dec. 15.5 dec. Date Extracted: 04/22/91Extraction: SonicDate Analyzed: 05/02/91GPC Cleanup: (Y/N) NDilution Factor: 500

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	47000	U
11104-28-2	Aroclor-1221	47000	U
11141-16-5	Aroclor-1232	47000	U
53469-21-9	Aroclor-1242	47000	U
12672-29-6	Aroclor-1248	95000	U
11097-69-1	Aroclor-1254	95000	U
11096-82-5	Aroclor-1260	95000	U
37324-23-5	Aroclor-1262	95000	U
11100-14-4	Aroclor-1268	270000	

FORM I PEST

1/87 REV.

00059

3202-3DL

ESE S&E Hk

4408

User: WFRSTEF

1CB-Su1

11506

Version: 800/V2.2

Acquired: 2-May-1991 at 08:40:42

Node: MAX2

GC Project: DR-5

EPA24

2-May-1991

8:57:38

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	6
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/V2.2	Processing version	V2.2

Descriptions:

Node:

Acquired on node LAC01 system 6 for DR-5

Channel:

DR-5

Method:

DR-5 CAPILLARY COLUMN

INITIAL TEMP: 150 DEG

FINAL TEMP: 265 DEG

RAMP: 5 DEG. MIN

INITIAL TIME: 1 MIN

FINAL TIME: 21 MIN

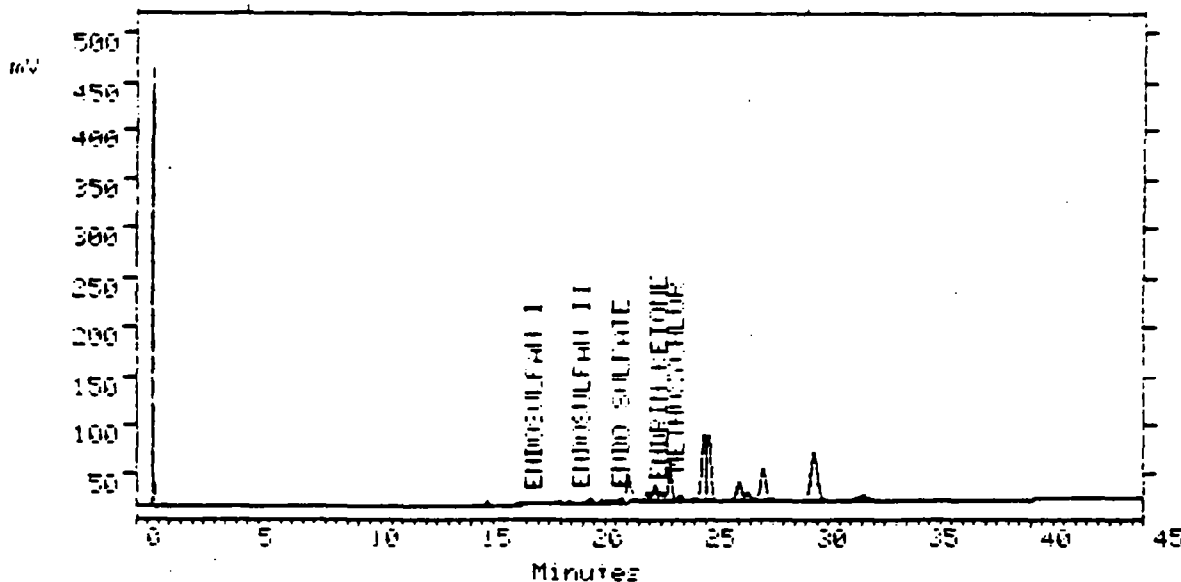
RUN TIME: 45 MIN

Sample:

Antennal vial 24

First Plot:

EPA24 Manual Injection 1 Ch 1



00001

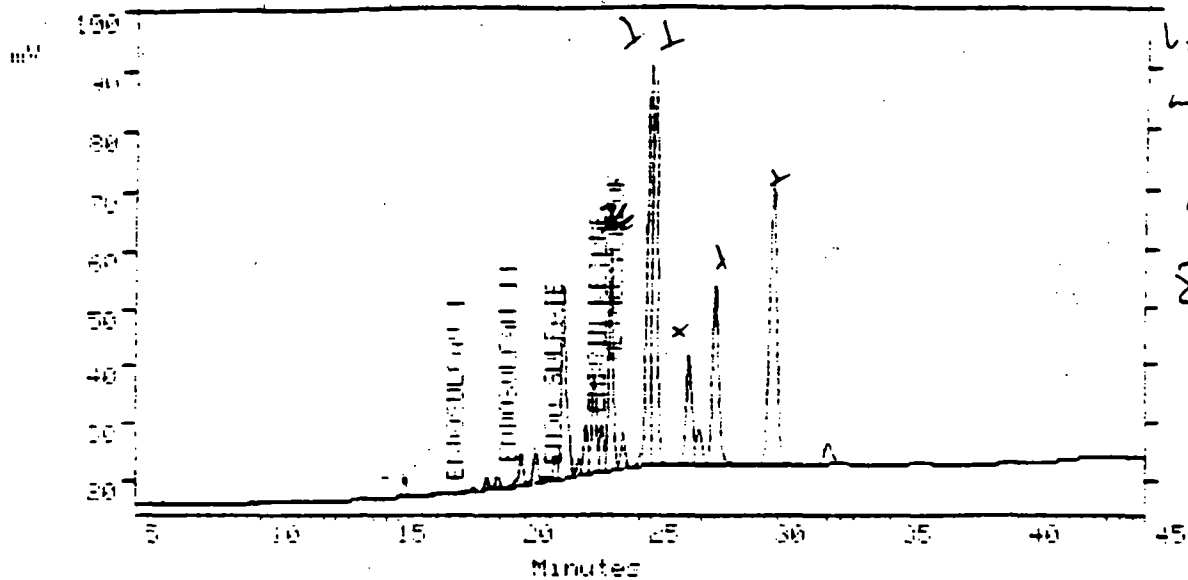
Second Plot

910416-160DL

3202-3DL

ESE Shell

EPHE- Manual Injection 1 Ch 1



Conditions:

Sample amount Internal standard amt -
 Scale factor Mode Analyte
 Keyboards of Remote Devices Unlocked

Peak Detect Threshold 1 Peak Width 20 sec
 Integration Delay 5.00 min Area Reject 500
 Integration Events:

Time	Event	Parameter
18.00	Set baseline point	20
24.50	Set baseline point	20

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 0 sec

GC Results:

Peak Name	Ret Time	Area	Amount
UNKNOWN	5.080	1125	363000
UNKNOWN	6.069	2512	354000
UNKNOWN	6.430	624	235400
UNKNOWN	10.978	777	0.03354g
UNKNOWN	12.082	560	
UNKNOWN	12.437	737	
UNKNOWN	15.732	37611	230000 = 270,000
UNKNOWN	16.215	1046	0.845
UNKNOWN	17.103	2322	
ENDOSULFAN I	17.330	1500	0.001
UNKNOWN	18.487	6322	
UNKNOWN	18.968	37354	
ENDOSULFAN II	19.418	29159	0.028
UNKNOWN	20.327	75010	
UNKNOWN	20.891	73969	
ENDO SULFATE	21.162	9649	0.009
UNKNOWN	21.255	3461	
UNKNOWN	21.697	40513	
UNKNOWN	22.098	425629	

Handwritten notes:
 Ar 1268 det:
 $\frac{354000 \times 1.52 \times 10^{-2}}{235400 \times 0.03354} = 230$
 $\frac{230000}{0.845} = 270,000$ mg/kg dry wt
 calc against Ar 1268
 std analyzed 5-2-91 at site ?
 00061

Peak Name	Ret. Time	Area	Amount
UNKNOWN	22.192	31857	-
ENDRIN KETONE	22.873	102196	0.080
METHOXYCHLOR	23.211	209196	0.264
UNKNOWN	23.508	100314	-
UNKNOWN	23.895	458024	-
UNKNOWN	24.040	14611	-
UNKNOWN	25.401	907780Y	-
UNKNOWN	25.612	947222Y	-
UNKNOWN	26.984	308170Y	-
UNKNOWN	27.371	98670	-
UNKNOWN	28.044	570254Y	-
UNKNOWN	30.328	994232Y	-
UNKNOWN	32.512	85216	-
UNKNOWN	44.022	4846	-

3202-3DL

ESE Shell

17500

910416-1600L

This amount was computed using manually entered responses.

Version: 860/V2.2
Node: VAX2

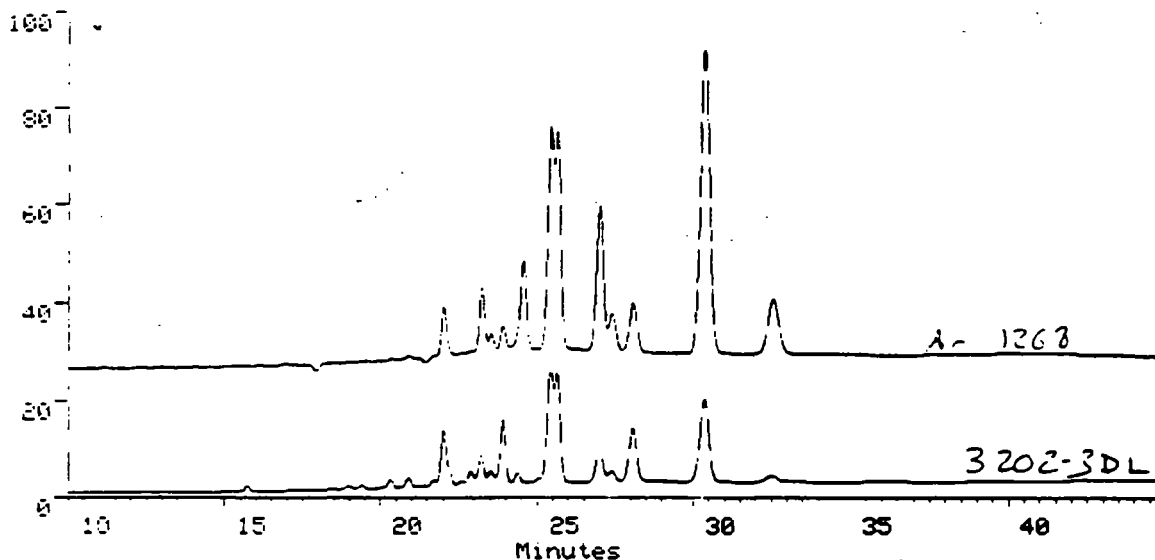
Printed: 2-May-1991 at 10:44:53
GC Project: DB-5

Page 1
User: WEBSTER

Compare Report

EPA22 Manual Inj 1 Ch 1

EPA24 Manual Inj 1 Ch 1



Plot Parameters

Plot Title	Start	End	Minimum	Maximum
EPA22 Manual Inj 1 Ch 1	10.00 min	45.00 min	-50.000	200.0
EPA24 Manual Inj 1 Ch 1	10.00 min	45.00 min	13.410	300.0

ID
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: 3202-4 DLSample wt: 0.03560 kgLab. file ID: EPA19191Level: LOWDate Received: 04/19/91% Moisture: not dec. 24.6 dec. Date Extracted: 04/22/91Extraction: SoncDate Analyzed: 05/02/91GPC Cleanup: (Y/N) NDilution Factor: 100

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	11000	U
11104-28-2	Aroclor-1221	11000	U
11141-16-5	Aroclor-1232	11000	U
53469-21-9	Aroclor-1242	11000	U
12672-29-6	Aroclor-1248	21000	U
11097-69-1	Aroclor-1254	21000	U
11096-82-5	Aroclor-1260	21000	U
37324-23-5	Aroclor-1262	21000	U
11100-14-4	Aroclor-1268	130000	

FORM I PEST

1/87 REV.

00064

Version: 860/V2.2
Node: VAX2

Printed: 2-May-1991 at 08:32:22
GC Project: DB-5

Page 1
User: WEBSTER

E P A 1 9

2 - M a y - 1 9 9 1

4 : 5 3 : 4 8

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	6
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Node:
Acquired on node LACE01 system 6 for DB-5

Channel:
DB-5

Method:

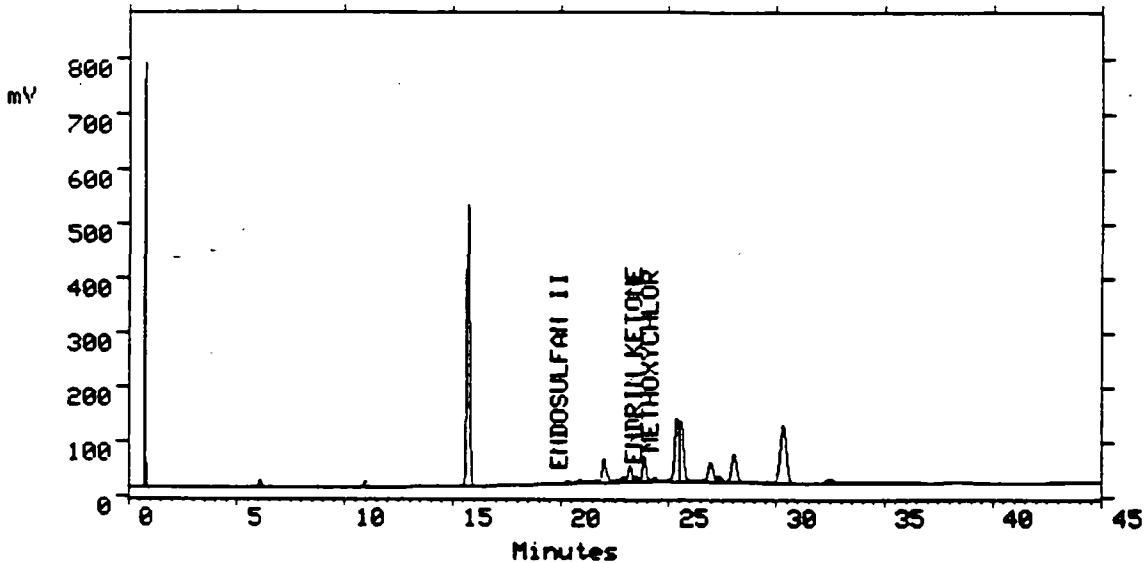
DB-5 CAPILLARY COLUMN	
INITIAL TEMP: 150 DEG	INITIAL TIME: 1 MIN
FINAL TEMP: 265 DEG	FINAL TIME: 11 ⁴ MIN
RAMP: 5 DEG/ MIN	RUN TIME: 35 MIN

Sample:

External vial 19

First Plot:

EPA19 Manual Injection 1 Ch 1



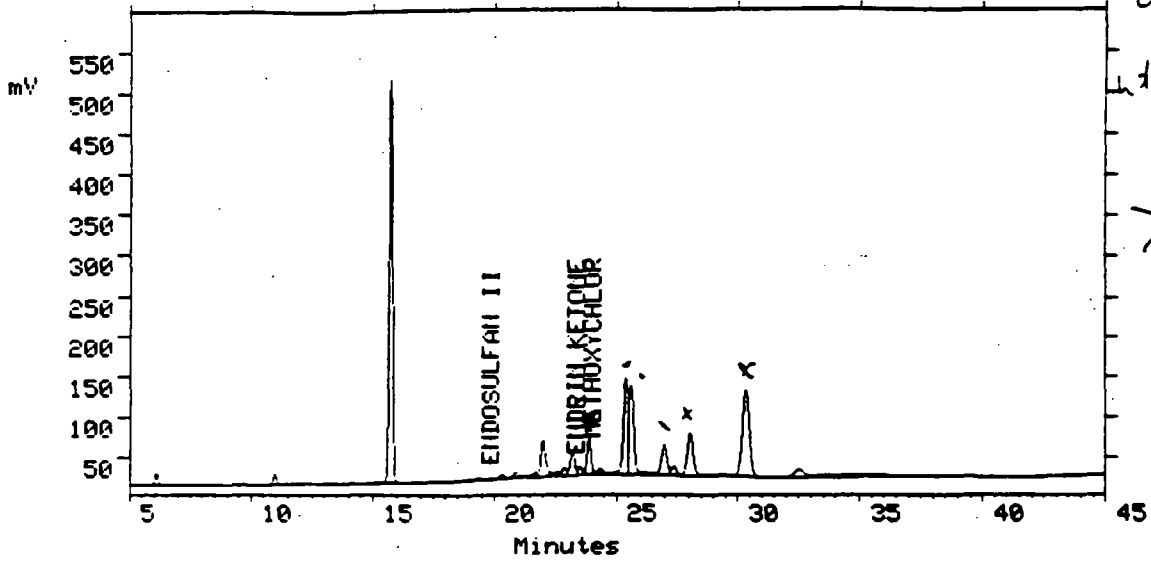
00065

Second Plot:

910416-168DL

3200 VDL
 L.S.F. Sample 1700

EPA19 Manual Injection 1 Ch 1



uf 10ml
 wt - 35.60g
 75.4%
 Solid

Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Peak Detect Threshold 1 Peak Width 20 sec
 Integration Delay 5.00 min Area Reject 500
 Integration Events:

Time	Event	Parameter
18.00	Set baseline point	20
24.60	Set baseline point	20

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

GC Results:

Peak Name	Ret Time	Area	Amount
UNKNOWN	5.174	2621	-
UNKNOWN	6.093	129866	-
UNKNOWN	8.101	1762	-
UNKNOWN	9.693	11409	-
UNKNOWN	10.971	124467	-
UNKNOWN	14.587	1044	-
UNKNOWN	15.736	4997459	-
UNKNOWN	16.203	956	-
UNKNOWN	18.474	4572	-
UNKNOWN	18.971	27158	-
ENDOSULFAN II	19.411	35857	0.034
UNKNOWN	20.327	77628	-
UNKNOWN	20.890	107124	-
UNKNOWN	21.360	56974	-
UNKNOWN	21.695	72959	-
UNKNOWN	22.000	685525	-
UNKNOWN	22.598	67644	-
NDRIN KETONE	22.870	139070	0.109
METHOXYCHLOR	23.205	397110	0.493

Peak Name	Ret Time	Area	Amount
UNKNOWN	23.501	138871	-
UNKNOWN	23.883	583505*	-
UNKNOWN	24.363	100368	-
UNKNOWN	25.394	1646139*	-
UNKNOWN	25.606	1551091*	-
UNKNOWN	26.974	626764*	-
UNKNOWN	27.370	176531	-
UNKNOWN	28.041	950401*	-
UNKNOWN	29.056	94885	-
UNKNOWN	30.313	2198261*	-
UNKNOWN	32.506	278839	-
UNKNOWN	34.658	508920	-
UNKNOWN	38.279	7176	-
UNKNOWN	44.718	73806	-

5002-V DL

ESE Shell

VF 702

wt: 35.6g

910416-16SDL

* This amount was computed using manually entered responses.

$$\frac{6977000}{6611000} \times \frac{100}{1979000} = 99000 / 0.754 = 130000 \text{ mg/kg dry wt.}$$

$$\frac{43800}{92000} \text{ mg/kg}$$

Calc against A. 1268 at analysed $\neq 5.2.91$ at 0.

ersion: 860/V2.2
Node: VAX2

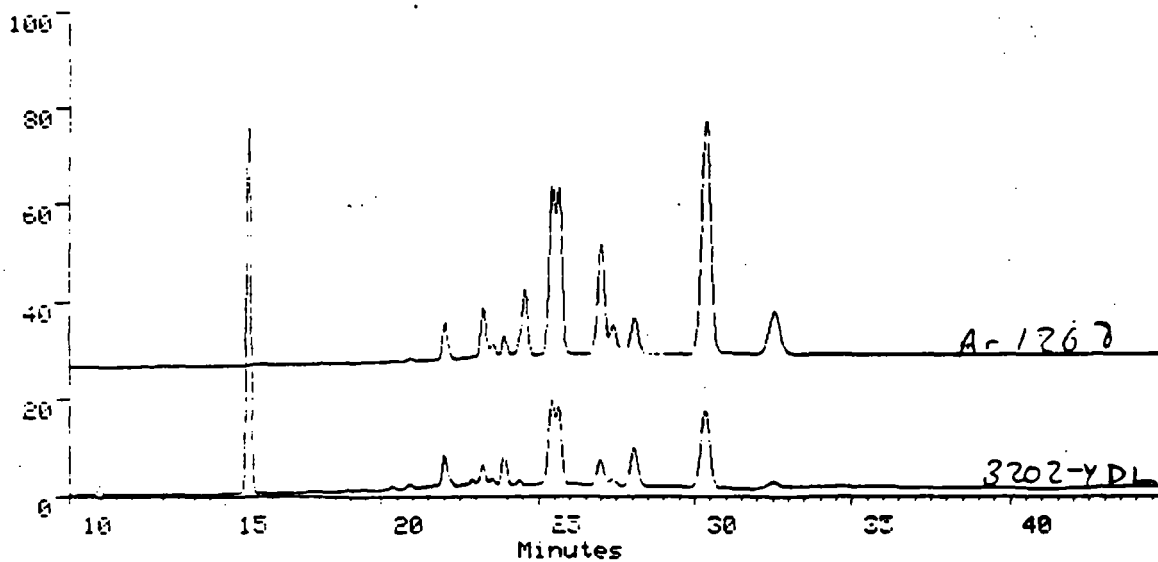
Printed: 2-May-1991 at 10:47:48
GC Project: DB-5

Page 1
User: WEBSTER

Compare Report

EPA13 Manual Inj 1 Ch 1

EPA19 Manual Inj 1 Ch 1



Plot Parameters

Plot Title	Start	End	Minimum	Maximum
EPA13 Manual Inj 1 Ch 1	10.00 min	45.00 min	-50.000	200.
EPA19 Manual Inj 1 Ch 1	10.00 min	45.00 min	13.964	700.

ID
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: 3202-5DLSample wt: 0.03257 kgLab file ID: EPA26261Level: LOWDate Received: 04/19/91% Moisture: not dec. 19.4 dec. Date Extracted: 04/22/91Extraction: SonicDate Analyzed: 05/02/91GPC Cleanup: (Y/N) NDilution Factor: 10

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	990	U
11104-28-2	Aroclor-1221	990	U
11141-16-5	Aroclor-1232	990	U
53469-21-9	Aroclor-1242	990	U
12672-29-6	Aroclor-1248	2000	U
11097-69-1	Aroclor-1254	2000	U
11096-82-5	Aroclor-1260	2000	U
37324-23-5	Aroclor-1262	2000	U
11100-14-4	Aroclor-1268	2000	U

Version: 860/V1.11
Node: MAXI

Printed: 2-May-1991 at 11:21:15

60 Project: DR-5

EPA26

2-May-1991

10:35:16

Headers:

Acquisition method	PESTPCB	Processing method	PESTPCB
Unit		System number	6
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	0.00 per sec
Injection volume	2.00	Mode	Analysis
Acquisition version	LAC/8/M2.1	Processing version	82.0

Description:

Node:

Acquired on node LACE01 system 6 for DR-5

Channel:

DR-5

Method:

DR-5 CAPILLARY COLUMN
INITIAL TEMP: 150 DEG
FINAL TEMP: 265 DEG
RAMP: 5 DEG/MIN

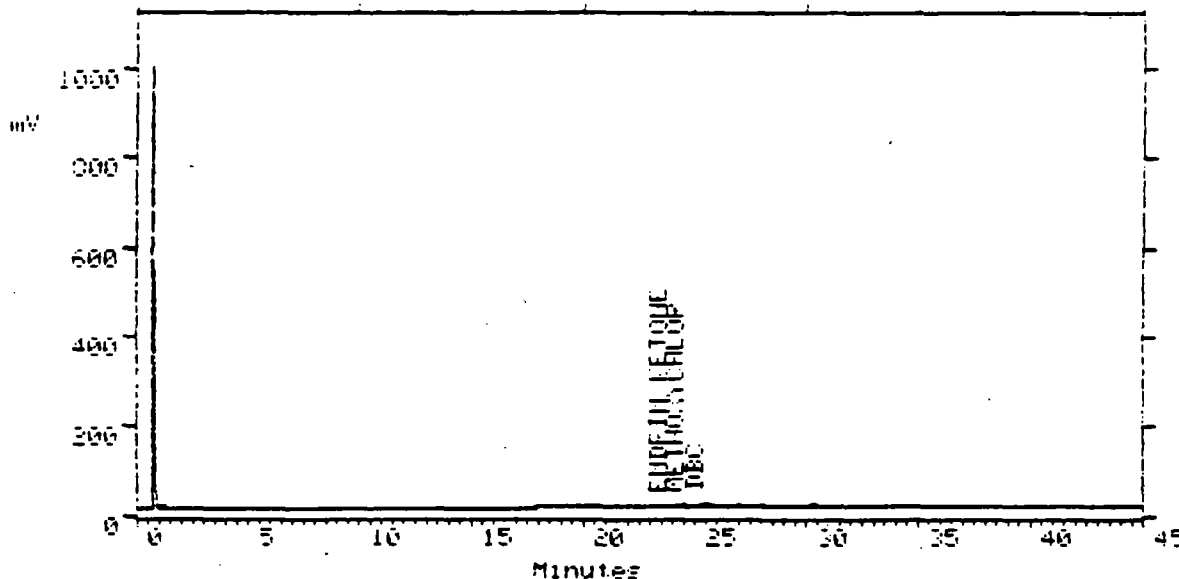
INITIAL TIME: 1 MIN
FINAL TIME: 23 MIN
RUN TIME: 45 MIN

Sample:

External vial 20

First Plot:

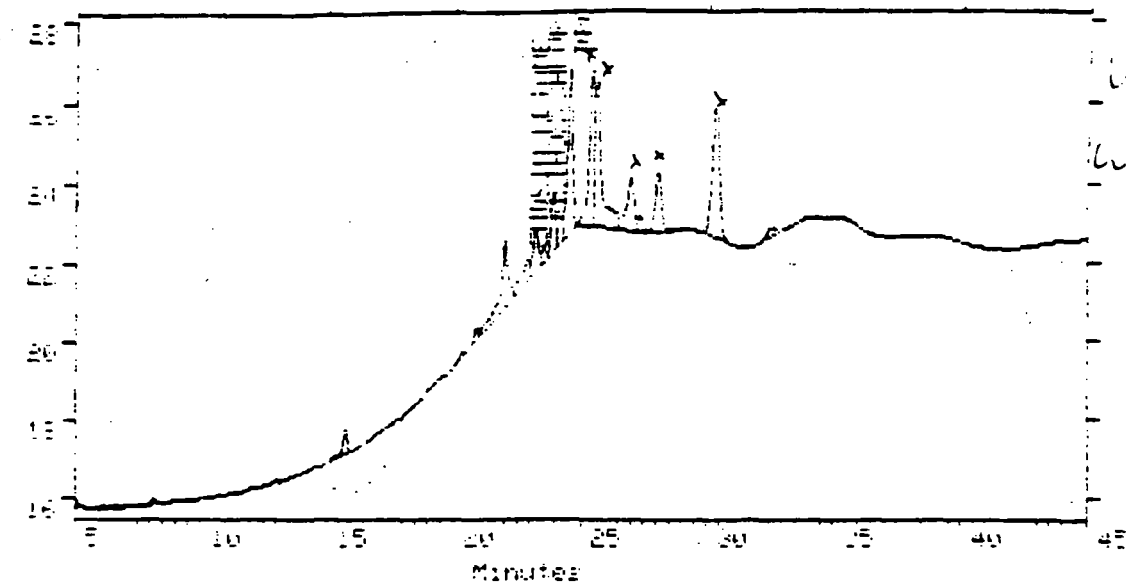
EPA26 Manual Injection 1 Ch 1



Second Run

910416-181DL 3220-4 DL
 ESF Sic 110
 110

EPHED Manual Injection 1 of 1



Conditions

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Peak Detect Threshold 1 Peak Width 20 sec
 Integration Delay 5.00 min Area Reject 500

Integration Events:

Time	Event	Parameter
18.00	Set baseline point	20
24.80	Set baseline point	20

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 12 Absolute Peak Window 6 sec

GC Results

Peak Name	Ret Time	Area	Amount
UNKNOWN	5.091	1150	-
UNKNOWN	6.102	1197	-
UNKNOWN	7.038	748	-
UNKNOWN	8.099	1638	-
UNKNOWN	15.735	8518	-
UNKNOWN	20.366	1288	-
UNKNOWN	20.936	3902	-
UNKNOWN	22.003	38151	-
ENDRIN KETONE	22.898	15342	0.012*
METHOXYCHLOR	23.206	16224	0.020*
UNKNOWN	23.510	4891	-
UNKNOWN	23.863	17762	-
UNKNOWN	24.144	9927	-
DRC	24.527	54646	0.048*
UNKNOWN	25.393	59065x	-
UNKNOWN	25.604	66983x	-
UNKNOWN	26.964	28620x	-
UNKNOWN	27.347	5303	-
UNKNOWN	28.036	26851x	-

DRC

$$\% R = \frac{0.48}{110} \times 100 = 437.$$

00071

Peak Name	Retention Time	Area	Height
UNKNOWN	24.672	24672.0	1046
UNKNOWN	24.527	24527.0	1046

This amount was computed using manually entered responses 1:10

Ant Ar 1268 det

$$320/0.806 = 400$$

$$\frac{246000 \text{ ng/ml}}{2354000} \times \frac{10 \text{ ng}}{0.032576} \times 10 = 320 \text{ ng/ml}$$

DBC RT Shift = $\frac{24.672 - 24.527}{24.672} \times 100 = 0.59$

Version: 800, V1.2
Mode: VAX2

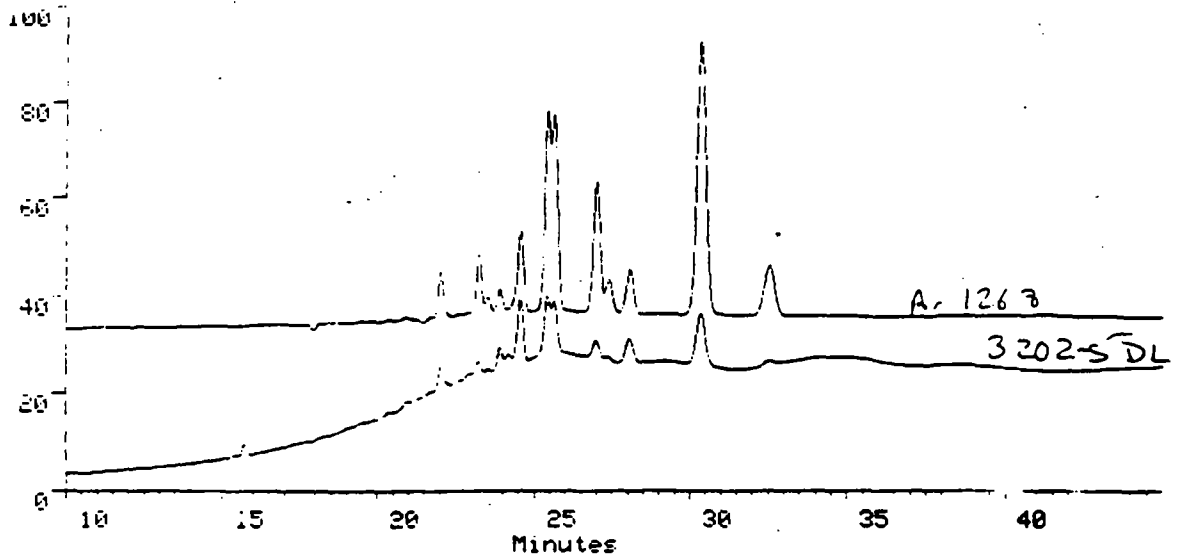
Printed: 2-May-1991 at 11:56:05
GC Project: DB-5

Page 1
User: WEBSTER

Compare Report

EPA22 Manual Inj 1 Ch 1

EPA26 Manual Inj 1 Ch 1



Plot Parameters

Plot Title	Start	End	Minimum	Maximum
EPA22 Manual Inj 1 Ch 1	10.00 min	45.00 min	-75.000	200.0
EPA26 Manual Inj 1 Ch 1	10.00 min	45.00 min	14.910	45.0

PESTICIDE EVALUATION STANDARDS SUMMARY

LAB NAME: ENVIRONMENTAL SCIENCE & ENG.

CONTRACT: ESE-SHELTON

INSTRUMENT ID: HPS890

GC COLUMN ID: Megabore 608

DATES OF ANALYSES: _____ TO _____

Sequence 1

EVALUATION CHECK FOR LINEARITY

PESTICIDE	CALIBRATION FACTOR EVAL MIX A	CALIBRATION FACTOR EVAL MIX B	CALIBRATION FACTOR EVAL MIX C	% RSD (</= 10.0%)
ALDRIN	349700	307170	312522	7.2
ENDRIN	250800	252580	257893	1.5
4,4'-DDT	206700	177590	181501	8.4
DBC	294800	276520	266918	5.1

- (1) If >10.0% RSD, plot a standard curve and determine the ng for each sample in that set from the curve.

Evaluation check for 4,4'-DDT/Endrin Breakdown
(percent breakdown expressed as total degradation)

	DATE ANALYZED	TIME ANALYZED	ENDRIN	4,4'-DDT	COMBINED (2)
INITIAL					
EVAL MIX B					
EVAL MIX B					
EVAL MIX B					
EVAL MIX B					
EVAL MIX B					
EVAL MIX B					
EVAL MIX B					
EVAL MIX B					
EVAL MIX B					
EVAL MIX B					
EVAL MIX B					
EVAL MIX B					
EVAL MIX B					
EVAL MIX B					
EVAL MIX B					
EVAL MIX B					

- (2) SEE FORM INSTRUCTIONS

SF
 PESTICIDE EVALUATION STANDARDS SUMMARY

LAB NAME: ENVIRONMENTAL SCIENCE & ENG.

CONTRACT: ES: *Shelton*

INSTRUMENT ID: H8890

GC COLUMN ID: *DB-5*

DATES OF ANALYSES: *4-30-91* TO *5-2-91*

Sequence 2

EVALUATION CHECK FOR LINEARITY

PESTICIDE	CALIBRATION FACTOR EVAL MIX A	CALIBRATION FACTOR EVAL MIX B	CALIBRATION FACTOR EVAL MIX C	σ (SD) = 10.00
ALDRIN	957800	919890	1040000	5.5
ENDRIN	773500	813710	916500	8.8
4,4'-DDT	899200	788290	958900	9.8
DDT	1056000	1020900	1046000	1.7

(1) If 10.00 SD, plot a standard curve and determine the ng for each sample in that set from the curve.

Evaluation check for 4,4'-DDT/Endrin Breakdown
 (percent breakdown expressed as total degradation)

	DATE ANALYZED	TIME ANALYZED	ENDRIN	4,4'-DDT	COMBINED (2)
INITIAL					
EVAL MIX B					
EVAL MIX B					
EVAL MIX B					
EVAL MIX B					
EVAL MIX B					
EVAL MIX B					
EVAL MIX B					
EVAL MIX B					
EVAL MIX B					
EVAL MIX B					
EVAL MIX B					
EVAL MIX B					
EVAL MIX B					
EVAL MIX B					

(2) SEE FORM INSTRUCTIONS

8E
PESTICIDE EVALUATION STANDARDS SUMMARY
 Evaluation of Retention Time Shift for Dibutylchlorodate

Lab Name: ENVIRONMENTAL SCIENCE & ENG.

Contract: ESE-SHELTON

Instrument ID : HP5890

GC Column ID: MEGABORE 608

Sequence 1

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01	EVALA	EVALA	04/10/91	17:03		
02	EVALB	EVALB	04/10/91	17:42	0.02	
03	EVALC	EVALC	04/10/91	18:22	0.03	
04	INDA	INDA	04/10/91	19:42	0.04	
05	INDB	INDB	04/10/91	20:22	0.04	
06	TOXAPH	TOXAPH	04/10/91	21:02	0.05	
07	AR1016	AR1016	04/10/91	21:42	0.04	
08	AR1221	AR1221	04/10/91	22:21	0.02	
09	AR1232	AR1232	04/10/91	23:01	0.01	
10	AR1242	AR1242	04/10/91	23:41	0.00	
11	AR1248	AR1248	04/11/91	0:21	N	
12	AR1254	AR1254	04/11/91	1:01	0.00	
13	AR1260	AR1260	04/11/91	1:40	0.32	
14	PBLK26	PBLK26	04/11/91	13:15	0.07	
15	PBLK01	PBLK01	04/11/91	15:24	0.08	
16	PBLK03	PBLK03	04/11/91	16:13	0.09	
17	INDA	INDA	04/12/91	17:42	0.05	
18	INDB	INDB	04/12/91	18:31	0.04	
19	AR1262	AR1262	04/12/91	19:20	0.34	
20	AR1268	AR1268	04/12/91	20:09	0.01	
21	910319-19DL	2934-1DL	04/12/91	20:58	D	
22	910326-058DL	2934-5DL	04/12/91	22:36	D	
23	910326-084DL	2985-5DL	04/12/91	23:25	D	
24	910326-092DL	2985-11DL	04/13/91	0:14	D	
25	910326-099DL	2985-18DL	04/13/91	2:42	D	
26	910327-101DL	2985-20DL	04/13/91	3:31	D	
27	AR1268	AR1268	04/13/91	5:09	0.05	
28	910327-122DL	2985-30DL	04/13/91	5:58	D	
29	910325-064DL	2999-4DL	04/13/91	7:37	D	
30	910325-071DL	2999-11DL	04/13/91	8:26	D	
31	910325-075DL	2999-15DL	04/13/91	9:15	D	
32	910328-131DL	2999-23DL	04/13/91	10:53	D	
33	INDA	INDA	04/13/91	14:58	0.07	
34	INDB	INDB	04/13/91	15:47	0.07	
35						
36						

M - MATRIX INTERFERENCE

D - SURROGATE DILUTED OUT

* Values outside of QC Limits (2.0% for packed columns, 0.3% for capillary columns) 1.5% for megabore columns

N - NO DBC ADDED

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00076

8E
 PESTICIDE EVALUATION STANDARDS SUMMARY
 Evaluation of Retention Time Shift for Dibutylchloroendate

Lab Name: ENVIRONMENTAL SCIENCE & ENG.

Contract: ESE SHELTON

Instrument ID : HP5890

GC Column ID: DB-5

Sequence 2

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01	EVALC	EVALC	04/30/91	12:13		
02	EVALA	EVALA	04/30/91	12:53	0.04	
03	EVALB	EVALB	04/30/91	14:32	0.04	
04	INDA	INDA	05/01/91	14:58	0.47	
05	INDB	INDB	05/01/91	15:48	0.50	
06	TOXAPH	TOXAPH	05/01/91	16:37	0.51	
07	ARI016	ARI016	05/01/91	17:27	0.51	
08	ARI221	ARI221	05/01/91	18:16	0.49	
09	ARI232	ARI232	05/01/91	19:06	0.49	
10	ARI242	ARI242	05/01/91	19:55	0.51	
11	ARI248	ARI248	05/01/91	20:45	N	
12	ARI254	ARI254	05/01/91	21:34	0.56	
13	ARI260	ARI260	05/01/91	22:23	0.53	
14	ARI262	ARI262	05/01/91	23:12	0.54	
15	ARI268	ARI268	05/02/91	0:01	0.53	
16	PBLK22	PBLK22	05/02/91	0:50	0.52	
17	910415-153DL	3202-2DL	05/02/91	3:16	D	
18	910416-168DL	3202-4DL	05/02/91	4:53	D	
19	910415-145DL	3202-1DL	05/02/91	8:08	D	
20	910416-160DL	3202-3DL	05/02/91	8:57	D	
21	910416-181DL	3202-5DL	05/02/91	10:35	0.59	
22	INDA	INDA	05/02/91	11:24	0.56	
23	INDB	INDB	05/02/91	12:13	0.59	
24	ARI268	ARI268	05/02/91	13:02	0.59	
25						
26						
27						
28						
29						
30						

D - SURROGATE DILUTED OUT

* Values outside of QC limits (2.0% for packed columns, 1.5%
 for capillary columns) *megabore*

N - NO DBC ADDED

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PESTICIDE/PCB STANDARDS SUMMARY

LAB: ENVIRONMENTAL SCIENCE & ENG.

Contract: ESE-SheHow

Case No.: _____
 Instrument ID: HP 5890
 DATE(S) OF FROM: 4-10-91
 ANALYSIS TO: 4-12-91
 TIME(S) OF FROM: 19:42
 ANALYSIS TO: 20:09

SDG No.: _____
 GC Column ID: Megabore 608
 DATE OF ANALYSIS: 4-12-91
 TIME OF ANALYSIS: 17:42
 EPA SAMPLE NO. _____
 STANDARD: InnA; Vial 6

(Cont)

COMPOUND	RT	RT WINDOW FROM TO	CALIB. FACTOR	RT	CALIB. FACTOR	%D	QNT Y/N
alpha-BHC	11.452	11.418 11.486	287200				
beta-BHC	13.441	13.401 13.481	249650				
delta-BHC	14.988	14.943 15.033	256430				
gamma-BHC	13.124	13.085 13.163	255340	13.124	258200	1.1	N
HEPTACHLOR	14.470	14.427 14.513	320300	14.470	317780	0.8	N
ALDRIN	15.846	15.798 15.894	269540	15.846	257850	4.3	N
HEPT.EPOXIDE	18.655	18.599 18.711	399030	18.655	363190	9.0	N
ENDOSULFAN I	19.657	19.598 19.716	331560	19.656	301140	9.2	N
DELDRIN	20.923	20.860 20.986	285660	20.924	259050	9.3	N
DDE	20.606	20.544 20.668	337220				
ENDRIN	22.420	22.353 22.487	298070				
ENDRIN ALD.	24.492	24.419 24.565	254148	24.491	256596	1.0	N
ENDOSULFAN II	23.151	23.082 23.220	283355	23.150	268415	5.3	N
DD	22.861	22.792 22.930	176890				
ENDO.SULFATE	25.010	24.935 25.085	324435				
DDT	24.066	23.994 24.138	159935	24.066	166770	4.3	N
METHOXYCHLOR	28.441	28.356 28.526	106461	28.440	121058	13.7	N
ENDRIN KETONE	29.157	29.070 29.244	333175				
gamma-CHLORDANE	19.544	19.485 19.603	184005				
beta-CHLORDANE	18.874	18.817 18.931	203595				
TOXAPHENE	22.555	22.487 22.623	56240				
AROCLOR 1016	11.294	11.260 11.328	25597				
AROCLOR 1221	7.491	7.469 7.513	15748				
AROCLOR 1232	13.056	13.017 13.095	18753				
AROCLOR 1242	14.562	14.518 14.606	29598				
AROCLOR 1248	15.901	15.853 15.949	26454				
AROCLOR 1254	19.139	19.082 19.196	33912				
AROCLOR 1260	24.056	23.984 24.128	29230				
ROBC	26.270	26.191 26.349	239132	26.270	237550	0.7	N
AROCLOR 1262	24.156	24.084 24.228					
AROCLOR 1268	32.409	32.312 32.506					

Under QNT Y/N: enter Y if quantitation was performed.
 Percent D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is character-

PESTICIDE/PCB STANDARDS SUMMARY

LAB: ENVIRONMENTAL SCIENCE & ENG.

Contract: ESE- SheHow

Case No.: _____
 Instrument ID: HP 5890
 DATE(S) OF FROM: 4-10-91
 ANALYSIS TO: 4-12-91
 TIME(S) OF FROM: 19:42
 ANALYSIS TO: 20:09

SDG No.: _____ *Sequence 1*
 GC Column ID: Megabec
 DATE OF ANALYSIS: 4-13-91
 TIME OF ANALYSIS: 14:58
 EPA SAMPLE NO. _____
 STANDARD: Ino A; Vial 32
 (EL)

COMPOUND	RT	RT WINDOW FROM	TO	CALIB. FACTOR	RT	CALIB. FACTOR	%D	QNT Y/N
alpha-BHC	11.452	11.418	11.486	287200				
beta-BHC	13.441	13.401	13.481	249650				
delta-BHC	14.988	14.943	15.033	256430				
gamma-BHC	13.124	13.085	13.163	255340	13.147	269100	5.4	N
HEPTACHLOR	14.470	14.427	14.513	320300	14.493	339770	6.1	N
ALDRIN	15.846	15.798	15.894	269540	15.872	272410	1.1	N
HEPT.EPOXIDE	18.655	18.599	18.711	399030	18.680	394290	1.2	N
ENDOSULFAN I	19.657	19.598	19.716	331560	19.682	336840	1.6	N
DIELDRIN	20.923	20.860	20.986	285660	20.949	281280	1.5	N
DE	20.606	20.544	20.668	337220				
ENDRIN	22.420	22.353	22.487	298070				
ENDRIN ALD.	24.492	24.419	24.565	254148	24.518	268372	5.6	N
ENDOSULFAN II	23.151	23.082	23.220	283355	23.176	278305	1.8	N
DD	22.861	22.792	22.930	176890				
ENDO.SULFATE	25.010	24.935	25.085	324435				
DDT	24.066	23.994	24.138	159935	24.091	180585	12.9	N
METHOXYCHLOR	28.441	28.356	28.526	106461	28.480	135366	27.2	N
ENDRIN KETONE	29.157	29.070	29.244	333175				
-CHLORDANE	19.544	19.485	19.603	184005				
-CHLORDANE	18.874	18.817	18.931	203595				
TOXAPHENE	22.555	22.487	22.623	56240				
ROCLOR 1016	11.294	11.260	11.328	25597				
ROCLOR 1221	7.491	7.469	7.513	15748				
ROCLOR 1232	13.056	13.017	13.095	18753				
ROCLOR 1242	14.562	14.518	14.606	29598				
ROCLOR 1248	15.901	15.853	15.949	26454				
ROCLOR 1254	19.139	19.082	19.196	33912				
ROCLOR 1260	24.056	23.984	24.128	29230				
BC	26.270	26.191	26.349	239132	26.302	256522	7.3	N
ROCLOR 1262	24.156	24.084	24.228					
ROCLOR 1268	32.409	32.312	32.506					

Under QNT Y/N: enter Y if quantitation was performed.
 Percent D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is character- 00030

PESTICIDE/PCB STANDARDS SUMMARY

LAB: ENVIRONMENTAL SCIENCE & ENG.

Contract: ESE- Shelton

Case No.: _____
 Instrument ID: HP 5890
 DATE(S) OF FROM: 4-10-91
 ANALYSIS TO: 4-13-91
 TIME(S) OF FROM: 19:42
 ANALYSIS TO: 20:09

SDG No.: _____
 GC Column ID: MegaBore 608
 DATE OF ANALYSIS: 4-13-91
 TIME OF ANALYSIS: 15:47
 EPA SAMPLE NO. _____
 STANDARD: Ino B; Vial 33

(End)

COMPOUND	RT	RT WINDOW FROM	TO	CALIB. FACTOR	RT	CALIB. FACTOR	%D	QNT Y/N
alpha-BHC	11.452	11.418	11.486	287200	11.474	262860	8.5	N
beta-BHC	13.441	13.401	13.481	249650	13.463	222070	11.0	N
delta-BHC	14.988	14.943	15.033	256430	15.011	226780	11.6	N
gamma-BHC	13.124	13.085	13.163	255340				
HEPTACHLOR	14.470	14.427	14.513	320300				
ALDRIN	15.846	15.798	15.894	269540				
HEPT. EPOXIDE	18.655	18.599	18.711	399030				
ENDOSULFAN I	19.657	19.598	19.716	331560				
DIELDRIN	20.923	20.860	20.986	285660				
DDE	20.606	20.544	20.668	337220	20.634	258040	23.5	N
ENDRIN	22.420	22.353	22.487	298070	22.449	228740	23.3	N
ENDRIN ALD.	24.492	24.419	24.565	254148				
ENDOSULFAN II	23.151	23.082	23.220	283355				
DD	22.861	22.792	22.930	176890	22.888	150490	14.9	N
ENDO. SULFATE	25.010	24.935	25.085	324435	25.042	298325	8.0	N
DDT	24.066	23.994	24.138	159935				
METHOXYCHLOR	28.441	28.356	28.526	106461				
ENDRIN KETONE	29.157	29.070	29.244	333175	29.204	319630	4.1	N
alpha-CHLORDANE	19.544	19.485	19.603	184005	19.572	151220	17.8	N
gamma-CHLORDANE	18.874	18.817	18.931	203595	18.900	173135	15.0	N
TOXAPHENE	22.555	22.487	22.623	56240				
AROCLOR 1016	11.294	11.260	11.328	25597				
AROCLOR 1221	7.491	7.469	7.513	15748				
AROCLOR 1232	13.056	13.017	13.095	18753				
AROCLOR 1242	14.562	14.518	14.606	29598				
AROCLOR 1248	15.901	15.853	15.949	26454				
AROCLOR 1254	19.139	19.082	19.196	33912				
AROCLOR 1260	24.056	23.984	24.128	29230				
ABC	26.270	26.191	26.349	239132				
AROCLOR 1262	24.156	24.084	24.228					
AROCLOR 1268	32.409	32.312	32.506					

Under QNT Y/N: enter Y if quantitation was performed.
 Percent D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is character-

PESTICIDE/PCB STANDARDS SUMMARY

LAB: ENVIRONMENTAL SCIENCE & ENG.

Contract: ESE Shelton

Case No.: _____
 Instrument ID: HP 5890
 DATE(S) OF FROM: 5-1-91
 ANALYSIS TO: 5-2-91
 TIME(S) OF FROM: 14:58
 ANALYSIS TO: 0:01

SDG No.: _____
 GC Column ID: DB-5 *Sequence 2*
 DATE OF ANALYSIS: 5-2-91
 TIME OF ANALYSIS: 11:27
 EPA SAMPLE NO. _____
 STANDARD: hd A: vial 27
 (end)

COMPOUND	RT	RT WINDOW FROM TO	CALIB. FACTOR	RT	CALIB. FACTOR	%D	QNT Y/N
alpha-BHC	9.181	9.153 9.209	764000				
beta-BHC	10.064	10.034 10.094	725500				
delta-BHC	11.138	11.105 11.171	725200				
gamma-BHC	10.357	10.326 10.388	742400	10.345	762600	2.7	N
HEPTACHLOR	13.103	13.064 13.142	1300000	13.088	1321000	1.6	N
ALDRIN	14.439	14.396 14.482	958300	14.423	977800	2.0	N
HEPT.EPOXIDE	16.099	16.051 16.147	1319000	16.079	1325000	0.5	N
ENDOSULFAN I	17.334	17.282 17.386	1148000	17.311	1181000	2.9	N
DIELDRIN	18.331	18.276 18.386	1057000	18.309	1006000	4.8	N
DDE	18.183	18.128 18.238	1194000				
ENDRIN	19.151	19.094 19.208	997300				
ENDRIN ALD.	20.167	20.106 20.228	1098400	20.142	987200	10.1	N
ENDOSULFAN II	19.467	19.409 19.525	1059000	19.445	1063000	0.4	N
DDV	19.753	19.694 19.812	723000				
ENDO.SULFATE	21.068	21.005 21.131	1124000				
DDT	21.192	21.128 21.256	621000	21.167	853000	3.9	N
METHOXYCHLOR	23.299	23.229 23.369	805900	23.273	758800	5.8	N
ENDRIN KETONE	22.833	22.765 22.901	1271620				
alpha-CHLORDANE	17.426	17.374 17.478	548000				
gamma-CHLORDANE	16.837	16.786 16.888	750000				
TOXAPHENE	19.680	19.621 19.739	38500				
AROCLOR 1016	12.437	12.400 12.474	88500				
AROCLOR 1221	9.161	9.134 9.188	47638				
AROCLOR 1232	12.440	12.403 12.477	60274				
AROCLOR 1242	12.435	12.398 12.472	98413				
AROCLOR 1248	16.167	16.118 16.216	118500				
AROCLOR 1254	19.456	19.398 19.514	144750				
AROCLOR 1260	23.895	23.825 23.967	267000				
AROCLOR 1262	23.892	23.820 23.964	144912				
AROCLOR 1268	30.334	30.243 30.425	642532				
DBC	24.672	24.598 24.746	1132000	24.535	1117200	1.3	N

Under QNT Y/N: enter Y if quantitation was performed, N if not performed. Percent D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

PESTICIDE/PCB STANDARDS SUMMARY

LAB: ENVIRONMENTAL SCIENCE & ENG.

Contract: ESE Shelton

Case No.: _____
 Instrument ID: HP5890
 DATE(S) OF FROM: 5-1-91
 ANALYSIS TO: 5-2-91
 TIME(S) OF FROM: 14:37
 ANALYSIS TO: 0-01

SDG No.: _____
 GC Column ID: DB-5
 DATE OF ANALYSIS: 5-2-91
 TIME OF ANALYSIS: 12:13
 EPA SAMPLE NO. _____
 STANDARD: low B, vial 28 (nd)

COMPOUND	RT	RT WINDOW FROM	TO	CALIB. FACTOR	RT	CALIB. FACTOR	%D	QNT Y/N
alpha-BHC	9.181	9.153	9.209	764000	9.165	737400	3.5	N
beta-BHC	10.064	10.034	10.094	725500	10.048	700000	3.5	N
delta-BHC	11.138	11.105	11.171	725200	11.120	724000	0.2	N
gamma-BHC	10.357	10.326	10.388	742400				
HEPTACHLOR	13.103	13.064	13.142	1300000				
ALDRIN	14.439	14.396	14.482	958300				
HEPT.EPOXIDE	16.099	16.051	16.147	1319000				
ENDOSULFAN I	17.334	17.282	17.386	1148000				
DIELDRIN	18.331	18.276	18.386	1057000				
DDE	18.183	18.128	18.238	1194000	18.164	1178000	1.3	N
ENDRIN	19.151	19.094	19.208	997300	19.128	858530	13.9	N
ENDRIN ALD.	20.167	20.106	20.228	1098400				
ENDOSULFAN II	19.467	19.409	19.525	1059000				
DDD	19.753	19.694	19.812	723000	19.730	702500	2.8	N
ENDO.SULFATE	21.068	21.005	21.131	1124000	21.045	1117000	0.6	N
DDT	21.192	21.128	21.256	821000				
METHOXYCHLOR	23.299	23.229	23.369	805900				
ENDRIN KETONE	22.833	22.765	22.901	1271620	22.812	1306500	2.7	N
alpha-CHLORDANE	17.426	17.374	17.478	548000	17.403	540000	1.5	N
alpha-CHLORDANE	16.837	16.786	16.888	750000	16.815	741000	1.2	N
TOXAPHENE	19.680	19.621	19.739	38500				
AROCLOR 1016	12.437	12.400	12.474	88500				
AROCLOR 1221	9.161	9.134	9.188	47638				
AROCLOR 1232	12.440	12.403	12.477	60274				
AROCLOR 1242	12.435	12.398	12.472	98413				
AROCLOR 1248	16.167	16.118	16.216	118500				
AROCLOR 1254	19.456	19.398	19.514	144750				
AROCLOR 1260	23.893	23.823	23.967	267000				
AROCLOR 1262	23.892	23.820	23.964	144912				
AROCLOR 1268	30.334	30.243	30.425	642532				
DEC	24.672	24.598	24.746	1132000				N

Under QNT Y/N: enter Y if quantitation was performed, N if not performed. Percent D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and ID. Identification of such analytes is based primarily on pattern recognition.

Seq 1

CF = 0.0

Version: 860/V2.2
Device: VAX2

Printed: 10-Apr-1991 at 18:54:26
GC Project: 608A

Page 1
User: URISH

SHELTON 34

10 - Apr - 1991

17:03:05

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	5
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	35.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Node:

Acquired on node LACE01 system 5 for 608A

Channel:

MEGABORE 608

Sample:

External vial 34

First Plot:

Conditions

150° start Temp / 1 min.

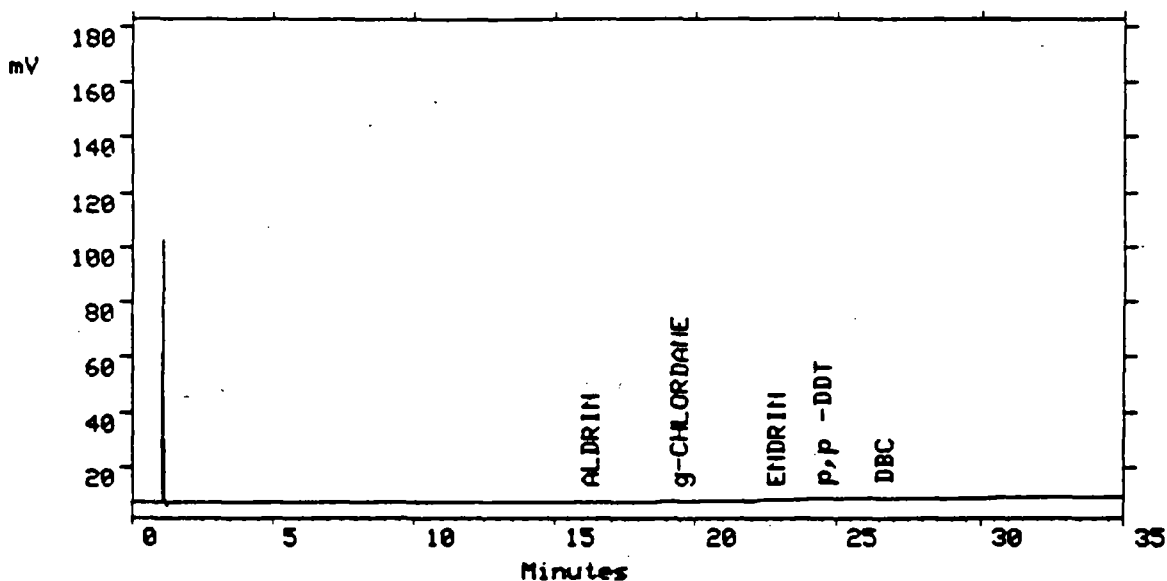
Rate - 5°/min

Final Temp 265 / 11 min.

inj Temp. - 200°

Det Temp. 300°

SHELTON34 Manual Injection 1 Ch 1



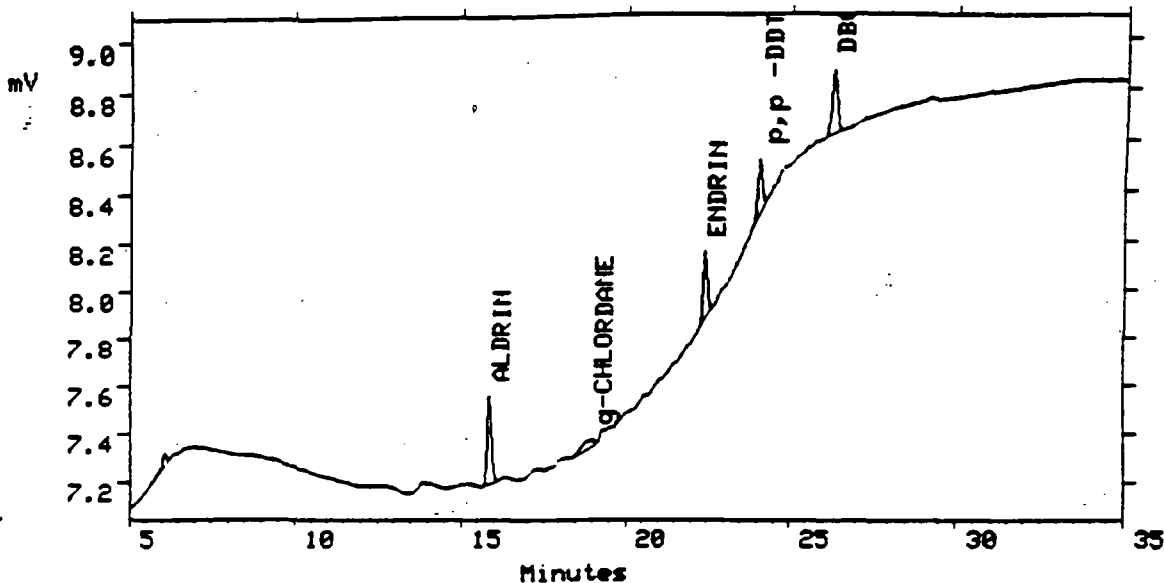
cond Plot:

Seg 1

EVAL

cf = 0.0

SHELTON34 Manual Injection 1 Ch 1



Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Manually integrated peaks have integration types with 1 or more '*'s.

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

Errors Reported From Integration/Quantitation:
 Integration method file was not found

Results:

Peak Name	Ret Time	Area	Amount
UNKNOWN	6.056	600	-
ALDRIN	15.858	3497	0.015*
D-DENDANE	19.008	874	0.006*
ENDRIN	22.429	2508	0.011*
P,p -DDT	24.074	2067	0.016*
DBC	26.284	2948	0.014*

This amount was computed using manually entered responses.

Seg 1

CF=C.1u

Version: 860/V2.2
Device: VAX2

Printed: 10-Apr-1991 at 18:58:11
GC Project: 608A

Page 1
User: URISH

SHELTON35

10 - Apr - 1991

17:42:53

Order:			
Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	5
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	35.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:
Node:

Acquired on node LACE01 system 5 for 608A.

Channel:
MEGABORE 608

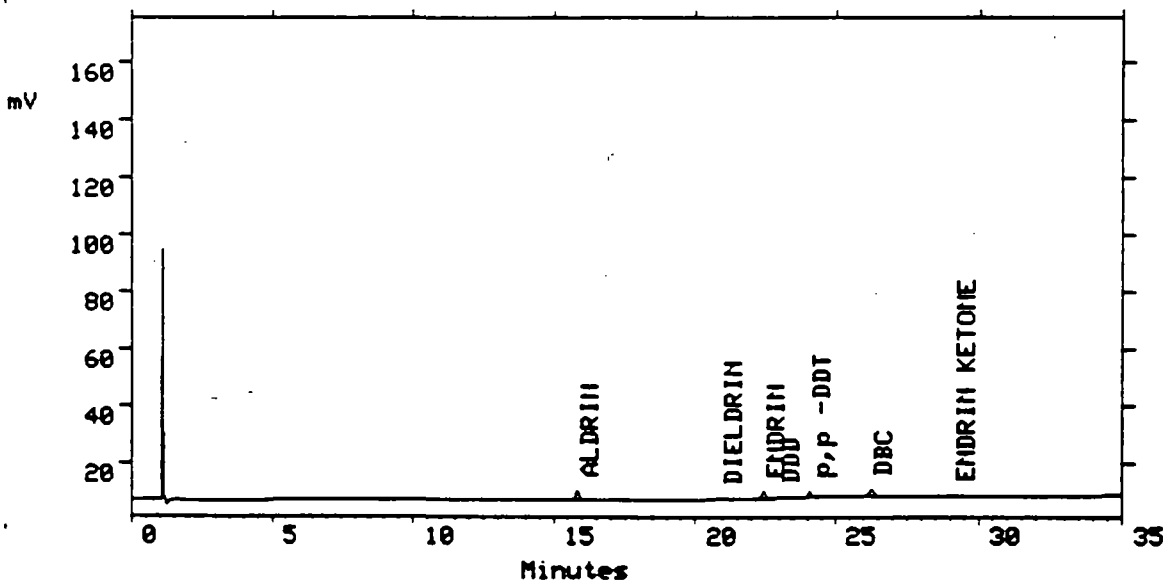
Conditions

*150° start Temp / 1min
Rate 5°/min
Final Temp: 265° / 11min
Inj Temp - 200°
Det Temp - 300°*

Sample:
External vial 35

First Plot:

SHELTON35 Manual Injection 1 Ch 1

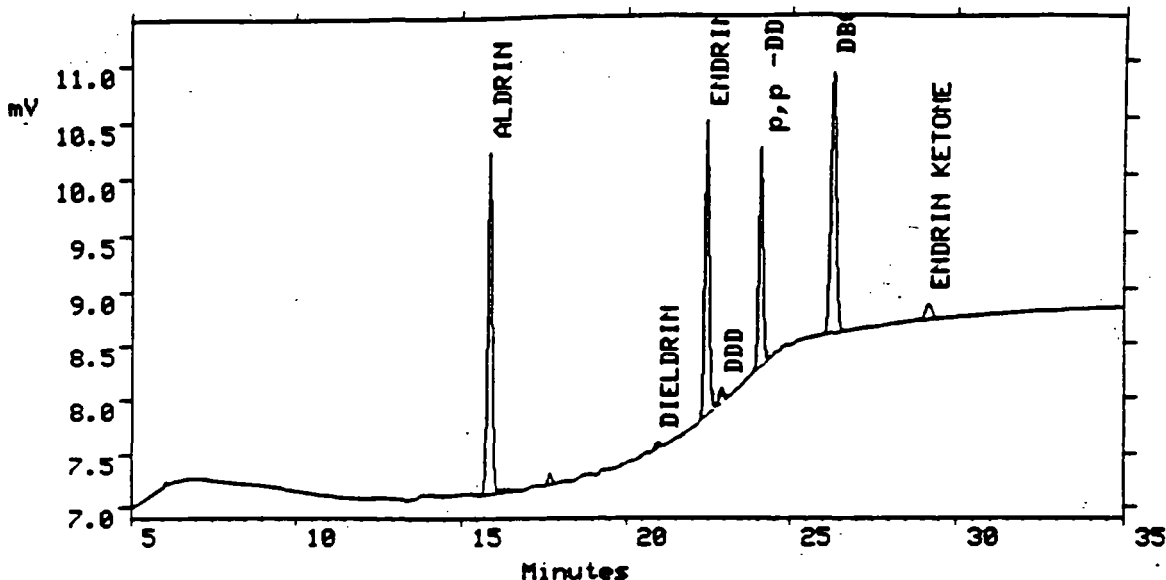


Second Plot:

Seq 1

EVAL

SHELTON35 Manual Injection 1 Ch 1



Cf = 0

Conditions:

Sample amount		Internal standard amt	
Scale factor		Mode	Analysis
Keyboards of Remote Devices Unlocked			
Peak Detect Threshold	25	Peak Width	20 sec
Integration Delay	0.00 min	Area Reject	0
Do Not Update Retention Time		Retention Time Offset	0.00 sec
Relative Peak Window	1%	Absolute Peak Window	6 sec

Errors Reported From Integration/Quantitation:
Integration method file was not found

Results:

Peak Name	Ret Time	Area	Amount
UNKNOWN	6.063	636	-
ALDRIN	15.854	30717	0.129
UNKNOWN	17.698	1081	-
ENDRIN	22.426	25258	0.115
DDD	22.882	1270	0.011
P,p-DDT	24.071	17759	0.141
DBC	26.279	27652	0.130
ENDRIN KETONE	29.164	1957	0.009

This amount was computed using manually entered responses.

- DBC R.T. shift

$$\frac{26.284 - 26.279}{26.284} \times 100\% = 0.02\%$$

Seq 1

ersion: 860/V2.2
a: VAX2

Printed: 10-Apr-1991 at 18:57:18
GC Project: 608A

Page 1
User: URISH

CF-1.0

S H E L T O N 3 6

1 0 - A p r - 1 9 9 1

1 8 : 2 2 : 4 0

ader:			
Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	5
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	35.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:
Node:

Acquired on node LACE01 system 5 for 608A

Channel:
MEGABORE 608

Sample:
External vial 36

First Plot:

Conditions

150° Inlet Temp / 1min

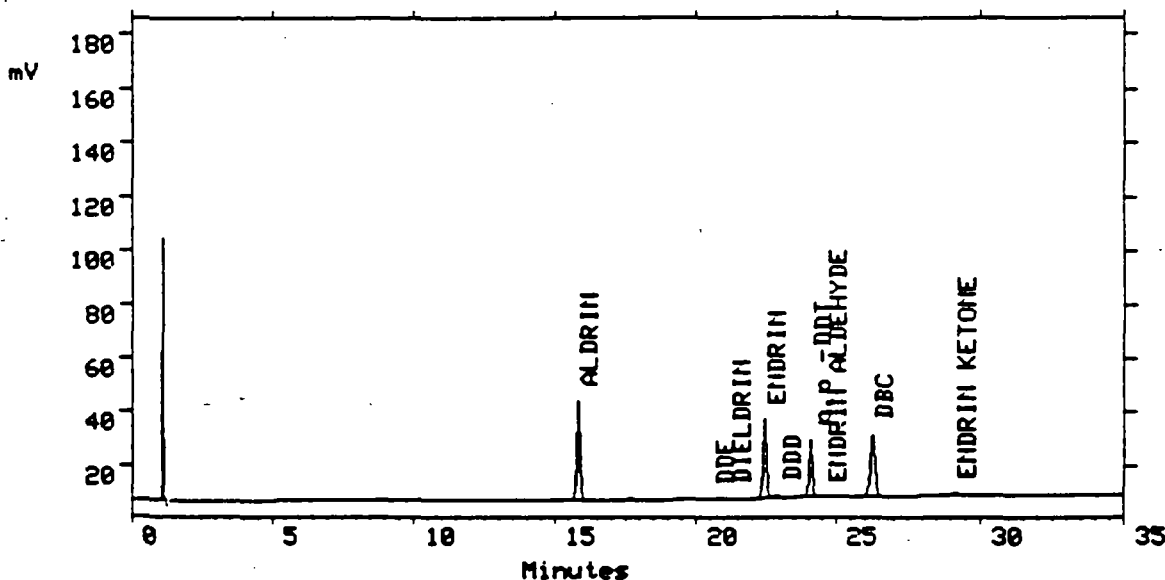
Rate - 5°/min

Final Temp - 265° / 11min

Chry Temp - 200°

Det Temp - 300°

SHELTON36 Manual Injection 1 Ch 1



00083

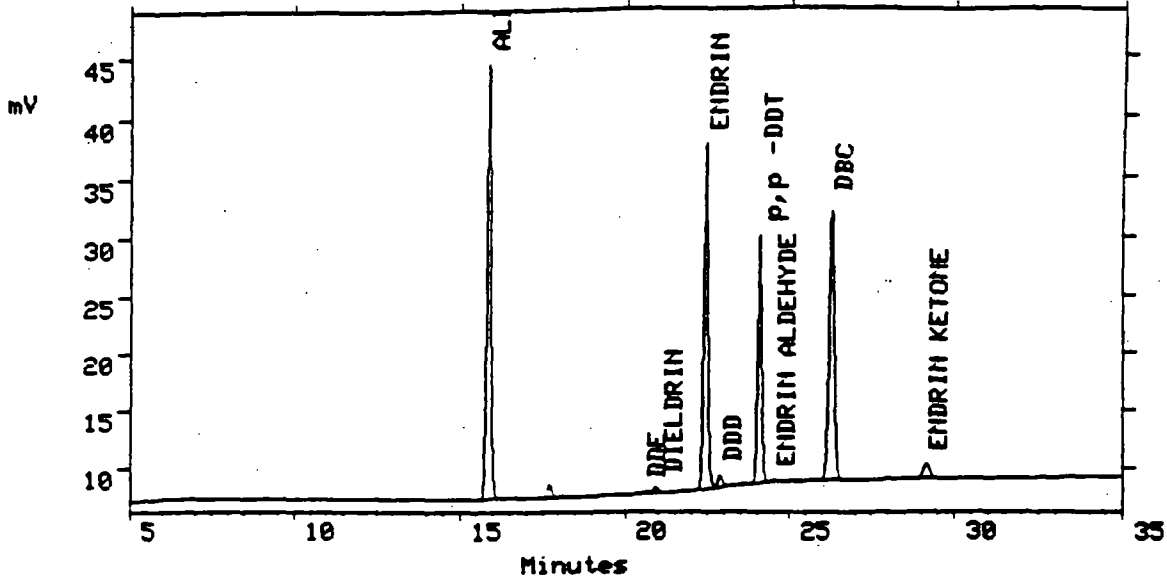
cond Plot:

Seg 1

EVAL C

SHELTON36 Manual Injection 1 Ch 1

Cp=1.0



Conditions:

Sample amount		Internal standard amt	
Scale factor		Mode	Analysis
Keyboards of Remote Devices Unlocked			
Peak Detect Threshold	25	Peak Width	20 sec
Integration Delay	0.00 min	Area Reject	0
Do Not Update Retention Time		Retention Time Offset	0.00 sec
Relative Peak Window	1%	Absolute Peak Window	6 sec

Errors Reported From Integration/Quantitation:
Integration method file was not found

Results:

Peak Name	Ret Time	Area	Amount
UNKNOWN	12.516	771	-
ALDRIN	15.849	312522	1.311
UNKNOWN	16.277	1058	-
UNKNOWN	17.695	10848	-
DDE	20.615	860	0.004
DIELDRIN	20.928	4988	0.019
ENDRIN	22.424	257893	1.171
DDD	22.874	11611	0.099
p,p- DDT	24.069	181501	1.436
ENDRIN ALDEHYDE	24.501	1444	0.006
UNKNOWN	25.217	1335	-
DBC	26.277	266918	1.258
ENDRIN KETONE	29.159	19353	0.091

This amount was computed using manually entered responses.

- DBC R.T. Shift

$$\frac{26.284 - 24.277}{26.284} \times 100\% = 0.03\%$$

Seg 2

High Eval

MIC

Version: 860/V2.2
Code: VAX2

Printed: 1-May-1991 at 15:06:34
GC Project: DB-5

Page 1
User: WEBSTER

DATA 7

30 - Apr - 1991

12:13:56

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	6
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	35.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Node:

Acquired on node LACE01 system 6 for DB-5

Channel:

DB-5

Method:

DB-5 CAPILLARY COLUMN
INITIAL TEMP: 150 DEG
FINAL TEMP: 265 DEG
RAMP: 5 DEG/ MIN

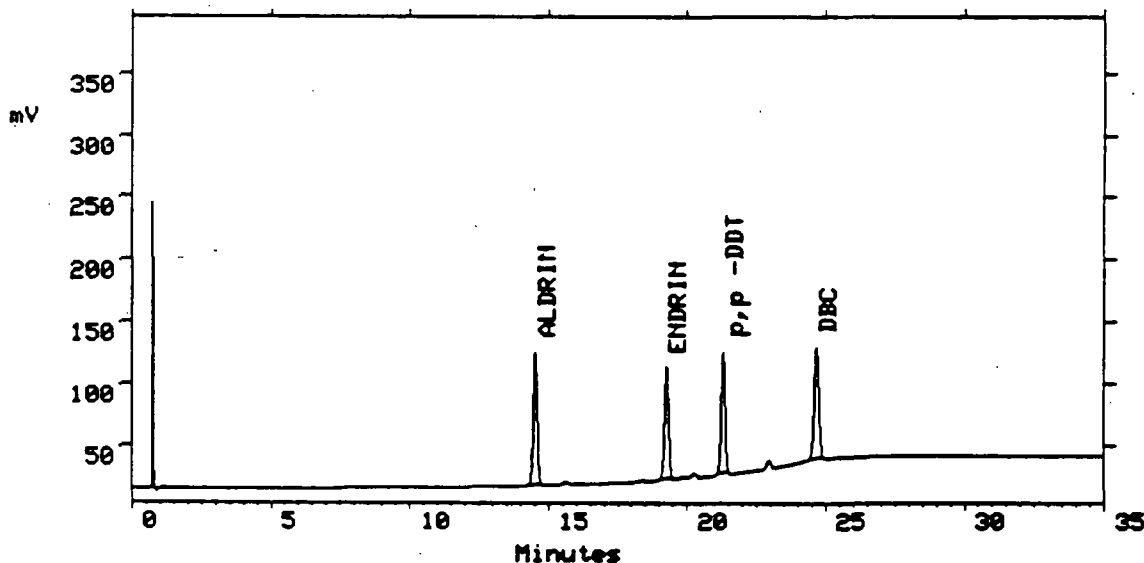
INITIAL TIME: 1 MIN
FINAL TIME: 11 MIN
RUN TIME: 35 MIN

Sample:

External vial 7

First Plot:

DATA7 Manual Injection 1 Ch 1



00000

Version: 860/V2.2
Mode: VAX2

Printed: 30-Apr-1991 at 13:59:06
GC Project: DB-5

Mix A
Page 1
User: WEBSTER

DATAS

30 - Apr - 1991

12:53:43

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	6
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	35.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Node:
Acquired on node LACE01 system 6 for DB-5

Channel:
DB-5

Method:

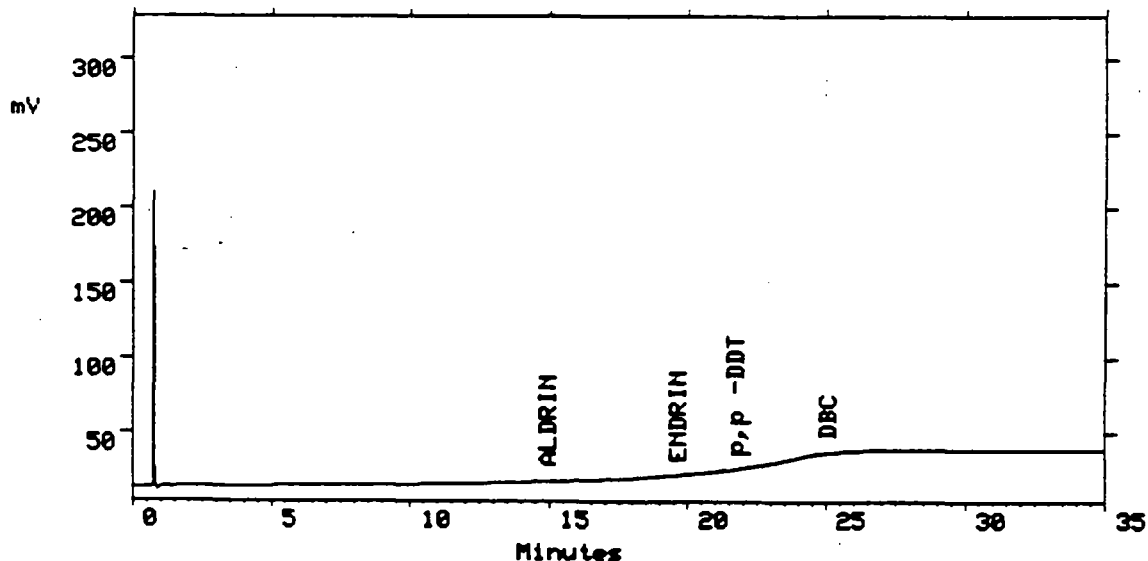
DB-5 CAPILLARY COLUMN	
INITIAL TEMP: 150 DEG	INITIAL TIME: 1 MIN
FINAL TEMP: 265 DEG	FINAL TIME: 11 MIN
RAMP: 5 DEG/ MIN	RUN TIME: 35 MIN

Sample:

External vial 8

First Plot:

DATAS Manual Injection 1 Ch 1



00032

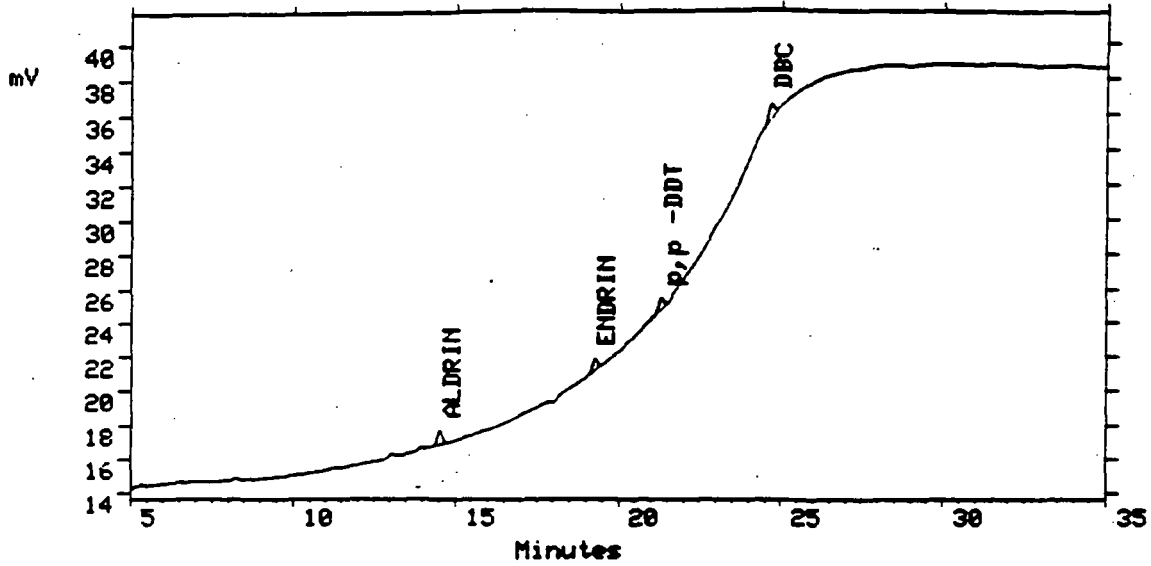
Second Plot:

Seg 2

Low Evol

Mix A

DATAS Manual Injection 1 Ch 1



Conditions:

Sample amount	Internal standard amt	
Scale factor	Mode	Analysis
Keyboards of Remote Devices Unlocked		

Manually integrated peaks have integration types with 1 or more '*'s.

Do Not Update Retention Time	Retention Time Offset	0.00 sec
Relative Peak Window 1%	Absolute Peak Window	3 sec

Errors Reported From Integration/Quantitation:
Integration method file was not found

QC Results:

Peak Name	Ret Time	Area	Amount
ALDRIN	14.533	9578	0.009*
ENDRIN	19.265	7735†	0.006*
p,p -DDT	21.307	8992	0.012*
DBC	24.682	10555	0.009*

* This amount was computed using manually entered responses.

$$DBC \text{ RT Shift} = \frac{24.672 - 24.682}{24.672} \times 100 = 0.040\%$$

Seg 2 Med Eval

Max D
Page 1

User: WEBSTER

Version: 860/V2.2
Code: VAX2

Printed: 30-Apr-1991 at 15:25:11
GC Project: DB-5

DATA10

30 - Apr - 1991

14:32:17

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	6
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	35.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Node:

Acquired on node LACE01 system 6 for DB-5

Channel:

DB-5

Method:

DB-5 CAPILLARY COLUMN
INITIAL TEMP: 150 DEG
FINAL TEMP: 265 DEG
RAMP: 5 DEG/ MIN

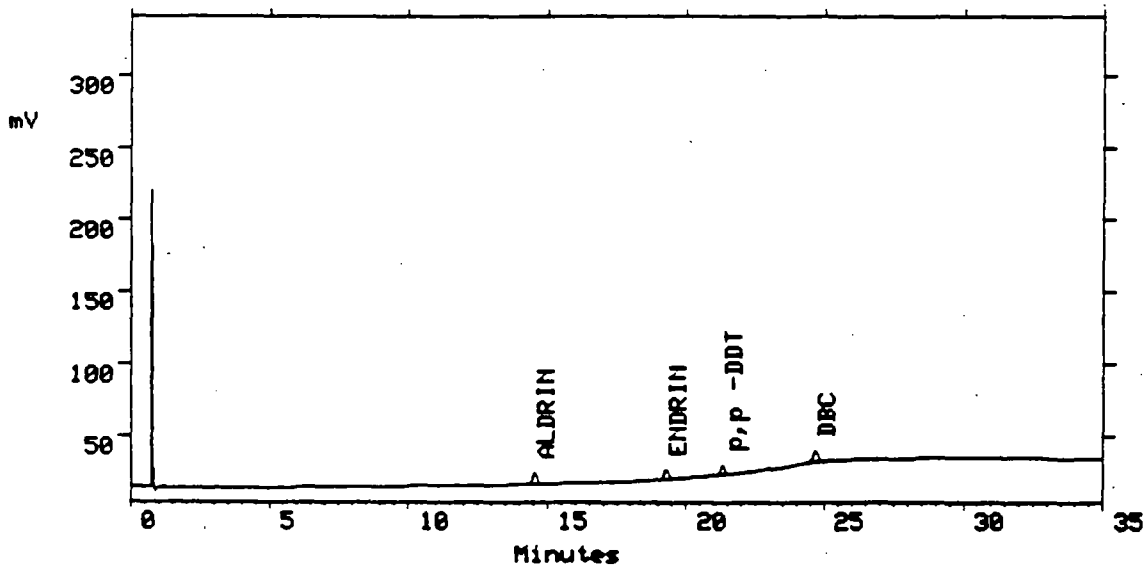
INITIAL TIME: 1 MIN
FINAL TIME: 11 MIN
RUN TIME: 35 MIN

Sample:

External vial 10

First Plot:

DATA10 Manual Injection 1 Ch 1



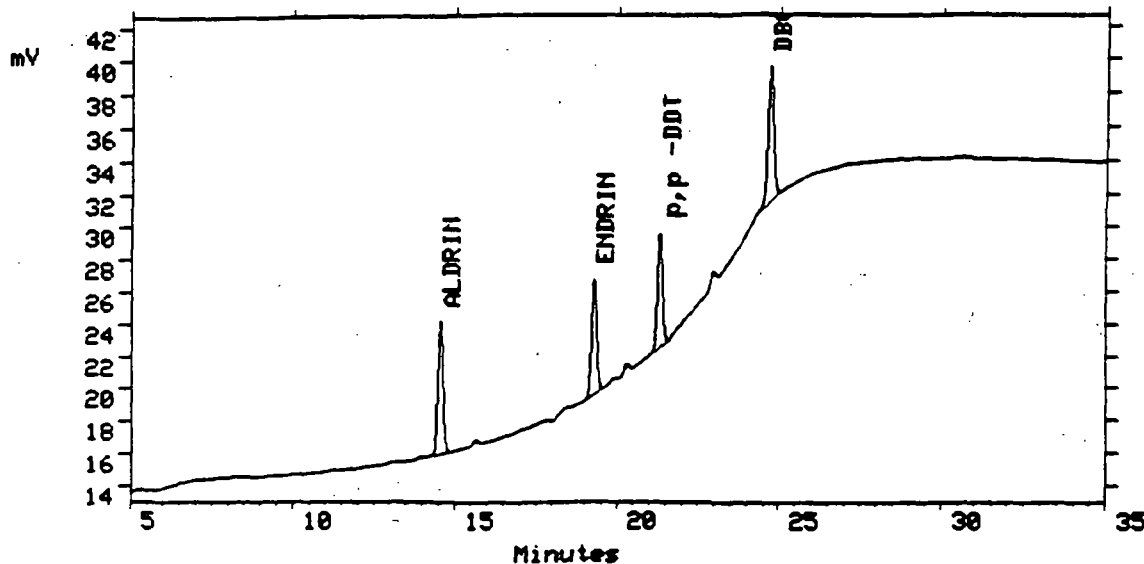
00094

Second Plot:

Seg 2

Med Env
mix B

DATA10 Manual Injection 1 Ch 1



Conditions:

Sample amount Internal standard amt
Scale factor Mode Analysis
Keyboards of Remote Devices Unlocked

Manually integrated peaks have integration types with 1 or more '*'s.

Do Not Update Retention Time Retention Time Offset 0.00 sec
Relative Peak Window 1% Absolute Peak Window 3 sec

Errors Reported From Integration/Quantitation:
Integration method file was not found

GC Results:

Peak Name	Ret Time	Area	Amount
ALDRIN	14.550	93989	0.086*
ENDRIN	19.277	81371	0.067*
p,p -DDT	21.309	78829	0.101*
DBC	24.682	102089	0.087*

* This amount was computed using manually entered responses.

$$\text{DBC RT Shift} = \frac{24.682 - 24.672}{24.672} \times 100 = 0.0407\%$$

Version: 860/V2.2
Code: VAX2

Printed: 11-Apr-1991 at 05:58:07
GC Project: 608A

Page 1
User: UFISH

HELTON38

10 - Apr - 1991

19:42:22

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	5
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	35.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:
Node:

Acquired on node LACE01 system 5 for 608A

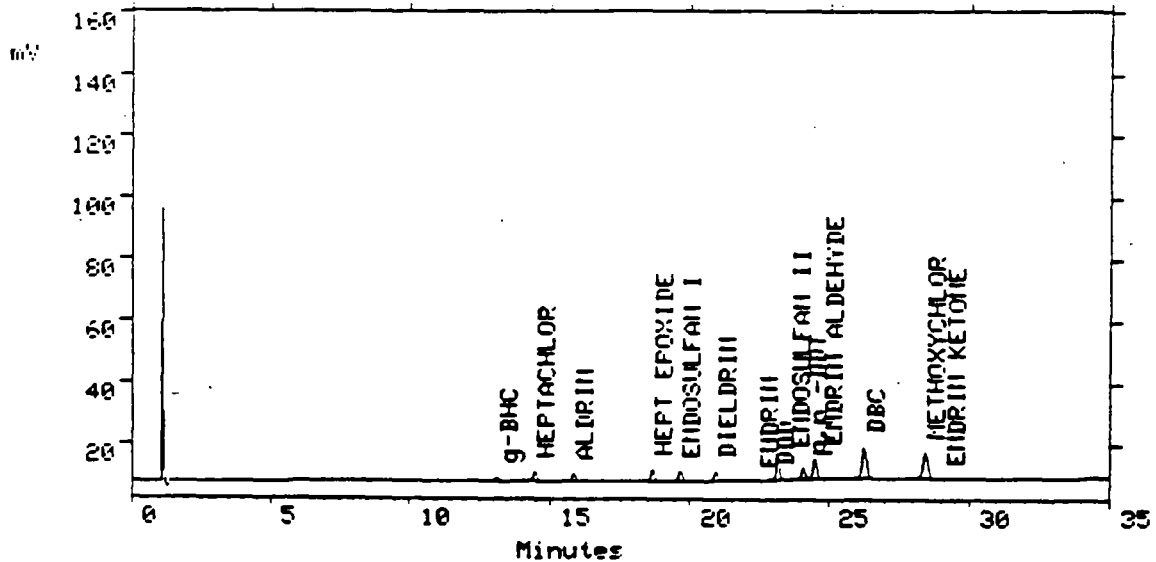
Channel:
MEGABORE 608

Sample:
External vial 38

First Plot:

Conditions
150° Inlet Temp - 1 min.
Rate - 5°/min.
Final Temp 265°/1 min
Inj Temp - 200°
Det Temp - 300°

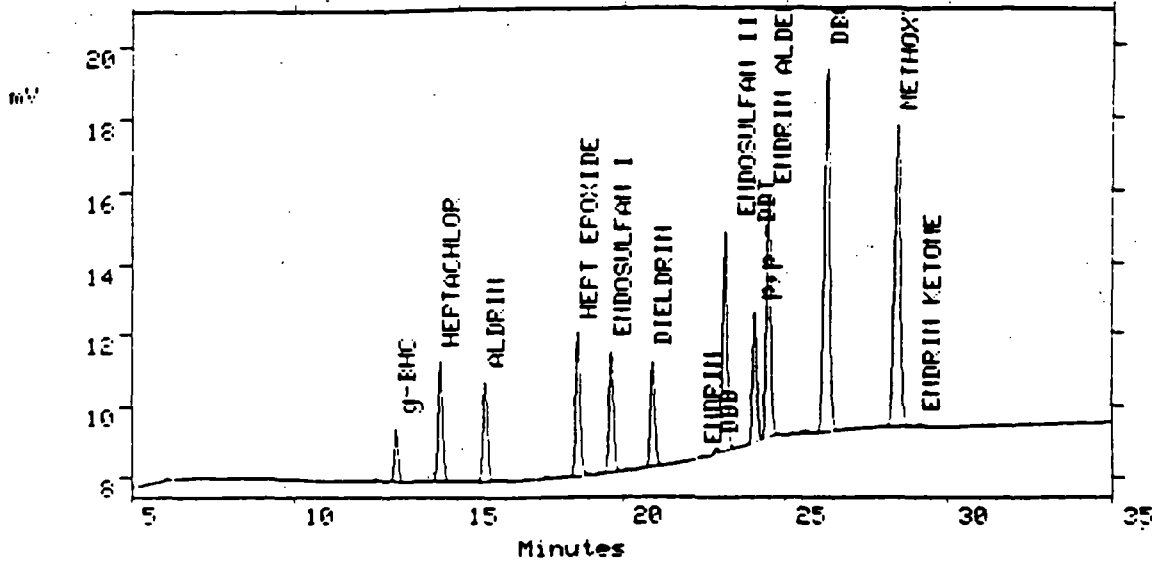
SHELTON38 Manual Injection 1 Ch 1



cond Plot:

Seg 1 *INDA*

SHELTON38 Manual Injection 1 Ch 1



Conditions:

Sample amount Internal standard amt
Scale factor Mode Analysis
Keyboards of Remote Devices Unlocked

Peak Detect Threshold 1 Peak Width 20 sec
Integration Delay 5.00 min Area Reject 200
Integration Events:

Time	Event	Parameter
9.00	Enable peak detection	20
24.00	Set baseline point	20

Do Not Update Retention Time Retention Time Offset 0.00 sec
Relative Peak Window 1% Absolute Peak Window 6 sec

Results:

Peak Name	Ret Time	Area	Amount
UNKNOWN	6.049	742	-
UNKNOWN	12.511	751	-
-BHC	13.124	12767	0.050%
HEPTACHLOR	14.470	32030	0.100%
ALDRIN	15.846	26954	0.100%
UNKNOWN	17.693	721	-
HEPT EPOXIDE	18.655	39903	0.100%
ENDOSULFAN I	19.657	33156	0.100%
UNKNOWN	20.165	593	-
DELDRIN	20.923	28566	0.100%
DDT	22.875	1332	0.008%
ENDOSULFAN II	23.151	56671	0.200%
p,p-DDT	24.066	31987	0.200%
ENDOSULFAN ALDEHYDE	24.492	63537	0.250%
UNKNOWN	25.225	689	-
UNKNOWN	25.632	1612	-
BC	26.273	119566	0.500%
METHOXYCHLOR	28.441	106461	1.000%
ENDOSULFAN KETONE	29.161	1365	0.004%

-DBL FT. Shift
26.284 - 26.273
26.284 x 100% = 0

This amount was computed using manually entered responses.

00037

Version: 860/V2.2
Device: VAX2

Printed: 11-Apr-1991 at 05:58:30
GC Project: 608A

Page 1
User: UFI SH

SHELTON 39

10 - Apr - 1991

20:22:24

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	5
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	35.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:
Node:

Acquired on node LACE01 system 5 for 608A

Channel:
MEGABORE 608

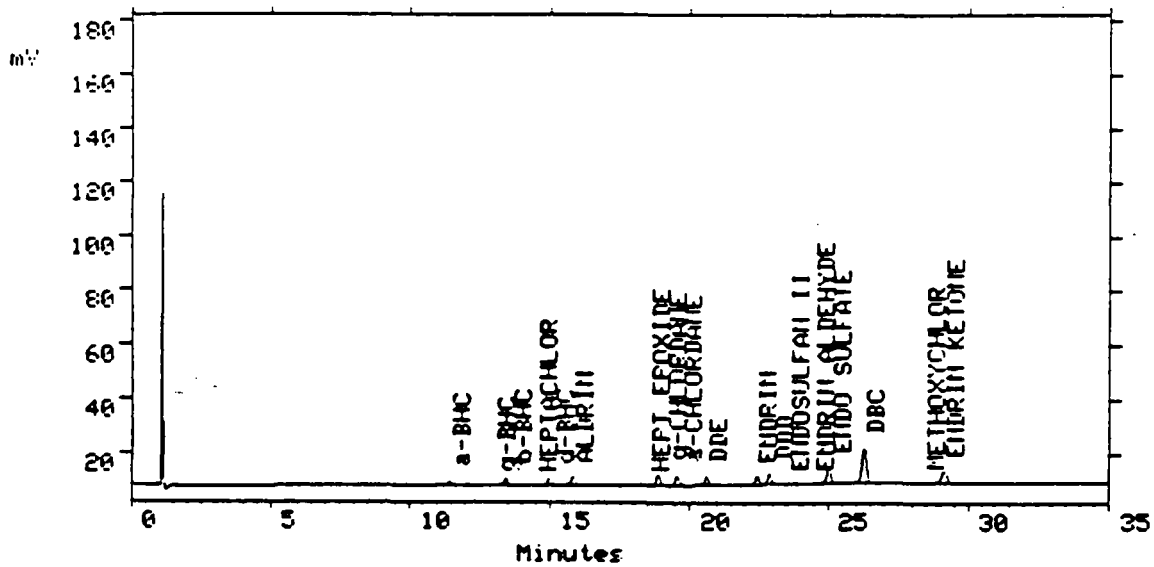
Sample:
External vial 39

First Plot:

Conditions

*150° Init Temp - 1 min
Rate - 5°/min
Final Temp - 265°/11 min
Dry Temp - 200°
Det Temp - 300°*

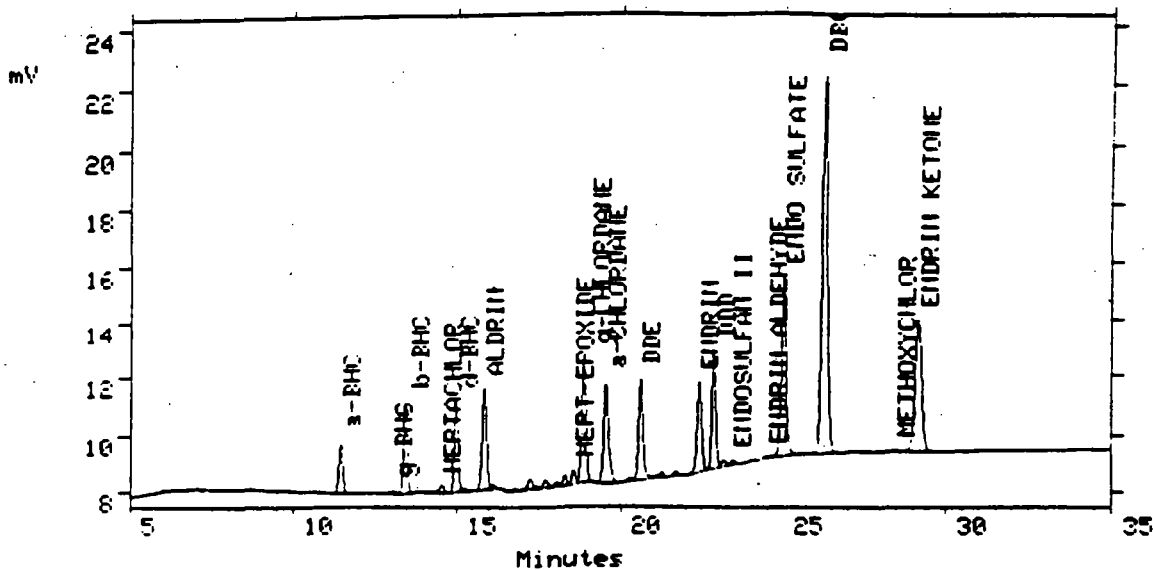
SHELTON39 Manual Injection 1 Ch 1



cond Plot:

Seq 1 IAOB

SHELTON39 Manual Injection 1 Ch 1



Conditions:
 Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Peak Detect Threshold 1 Peak Width 20 sec
 Integration Delay 5.00 min Area Reject 200
 Integration Events:

Time	Event	Parameter
9.00	Enable peak detection	20
24.00	Set baseline point	20

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

Results:

Peak Name	Ret Time	Area	Amount
UNKNOWN	6.045	775	-
a-BHC	11.452	14360	0.050
b-BHC	13.056	801	0.003
c-BHC	13.441	24965	0.100
HEPTACHLOR	14.549	2482	0.008
d-BHC	14.988	25643	0.100
UNKNOWN	15.257	1123	-
ALDRIN	15.850	34209	0.127
UNKNOWN	16.108	1250	-
UNKNOWN	16.800	709	-
UNKNOWN	17.248	4695	-
UNKNOWN	17.724	3047	-
UNKNOWN	18.065	1556	-
UNKNOWN	18.294	2811	-
HEPT EPOXIDE	18.562	4257	0.011
-CHLORDANE	18.874	40719	0.200
-CHLORDANE	19.544	36801	0.200
UNKNOWN	20.293	1223	-
DDE	20.606	33722	0.100

Peak Name	Ret Time	Area	Amount
UNKNOWN	21.257	2002	-
UNKNOWN	21.708	1315	-
DNRIN	22.420	29807	0.100
DD	22.861	35378	0.200
NDOSULFAN II	23.156	2264	0.008
UNKNOWN	23.458	1437	-
DO SULFATE	25.010	64887	0.200
BC	26.274	154233	0.645
ETHOXYCHLOR	28.463	616	0.006
DNRIN KETONE	29.157	66635	0.200

Seq 1 I 40 B

This amount was computed using manually entered responses.

-PBC RT. Sk. 4

$$\frac{26.274 - 26.274}{26.274} \times 100\% = 0.04\%$$

Seg 1

Cf-5.0

Version: 860/V2.2
Device: VAX2

Printed: 11-Apr-1991 at 06:17:16
GC Project: 608A

Page 1
User: UFISH

SHELTON 40

10 - Apr - 1991

21:02:10

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	5
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	35.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Node:
Acquired on node LACE01 system 5 for 608A

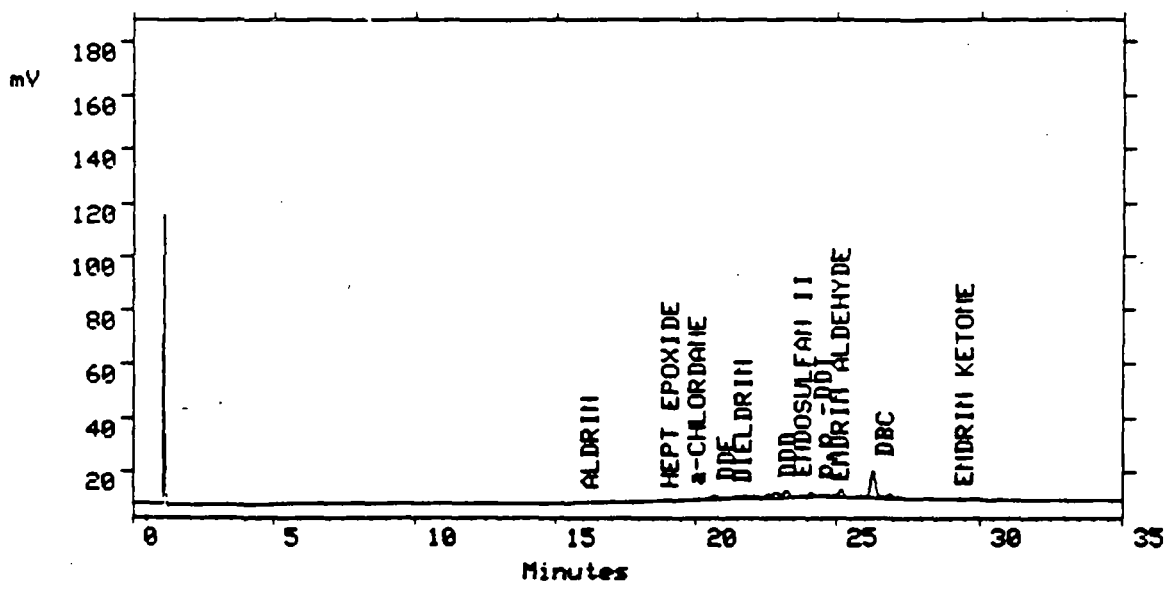
Channel:
MEGABORE 608

Sample:
External vial 40

First Plot:

Conditions
150° Init Temp. 1 min
Rate - 5°/min
Final Temp 265°/1
Inj Temp - 200°
Det. Temp - 300°

SHELTON40 Manual Injection 1 Ch 1



Mode: VAX2

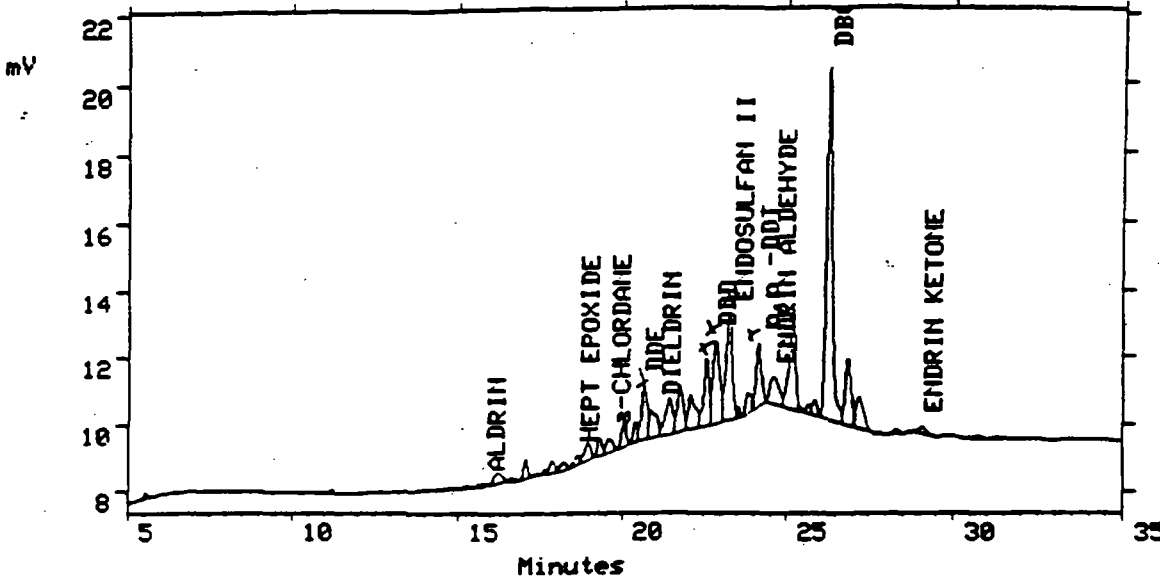
GC Project: 608A

Seq 1

Toxaph

Second Plot:

SHELTON40 Manual Injection 1 Ch 1



Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Manually integrated peaks have integration types with 1 or more '*'s.

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

Errors Reported From Integration/Quantitation:
 Integration method file was not found

Results:

Peak Name	Ret Time	Area	Amount
JNKNOWN	5.539	1278	-
JNKNOWN	11.204	829	-
JNKNOWN	14.066	1029	-
JNKNOWN	14.788	1346	-
JNKNOWN	15.252	714	-
DALDRIN	15.819	1374	0.005*
JNKNOWN	16.231	6121	-
JNKNOWN	16.614	1403	-
JNKNOWN	17.054	5400	-
JNKNOWN	17.374	604	-
JNKNOWN	17.860	5411	-
JNKNOWN	18.242	3523	-
HEPT EPOXIDE	18.669	3570	0.009*
JNKNOWN	18.981	7513	-
JNKNOWN	19.327	5288	-
DDT-CHLORDANE	19.622	5748	0.031*
JNKNOWN	20.067	7337	-
JNKNOWN	20.408	5051	-
DDT	20.653	19570*	0.058*
DIELDRIN	20.852	14381	0.050*
JNKNOWN	21.421	16514	-

Peak Name	Ret Time	Area	Amount
JNKNOWN	21.755	17772	-
JNKNOWN	22.065	16166	-
JNKNOWN	22.555	22799x	-
JD	22.837	35392x	0.200
ENDOSULFAN II	23.241	41824x	0.148
JNKNOWN	23.497	2093	-
JNKNOWN	23.800	7110	-
D,p -DDT	24.123	21031x	0.131
ENDRIN ALDEHYDE	24.585	15114	0.059
JNKNOWN	25.178	39711	-
JNKNOWN	25.644	2654	-
JNKNOWN	25.843	4622	-
DBC	26.272	130129	0.544
JNKNOWN	26.856	24803	-
JNKNOWN	27.174	13979	-
JNKNOWN	28.320	1908	-
ENDRIN KETONE	29.059	3337	0.010
JNKNOWN	30.746	2124	-
JNKNOWN	31.304	937	-

Seq 1
Toxoph
CF = 50%

This amount was computed using manually entered responses.

- DBC P.T. Shift

$$\frac{26.284 - 26.272}{26.284} \times 100\% = 0.05\%$$

- P.F.

$$\frac{140616}{5.0} = \frac{35154 \text{ ug/l}}{281200}$$

- Det Limit

$$\frac{5/500 \text{ ug/l}}{35154} \div \frac{1 \text{ ug/l}}{0.03 \text{ kg}} = 23 \text{ ug/kg}$$

Seg 1

Version: 860/V2.2 Printed: 11-Apr-1991 at 06:18:07
File: VAX2 GC Project: 608A

Page 1
User: UFISH

CF-4.0ug/l

SHELTON 41

10 - Apr - 1991

21:42:00

Order:			
Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	5
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	35.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:
Node:

Acquired on node LACE01 system 5 for 608A

Channel:
MEGABORE 608

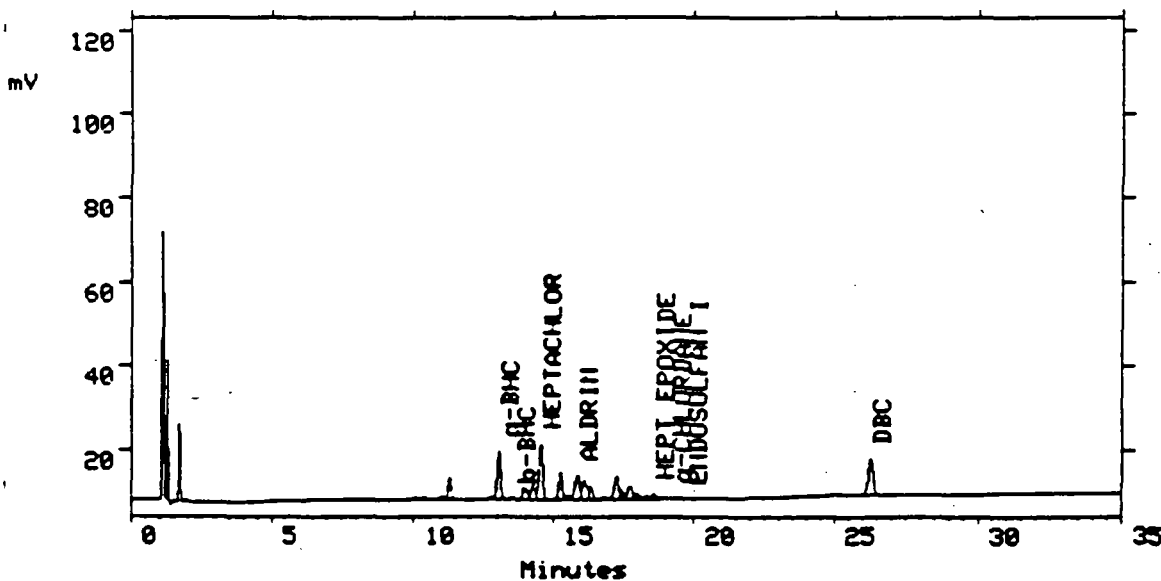
Sample:
External vial 41

First Plot:

Conditions

150° Start Temp - 1min
Rate - 5°/min
Final Temp - 265 (11m)
Dry Temp - 200°
Det Temp - 300°

SHELTON41 Manual Injection 1 Ch 1



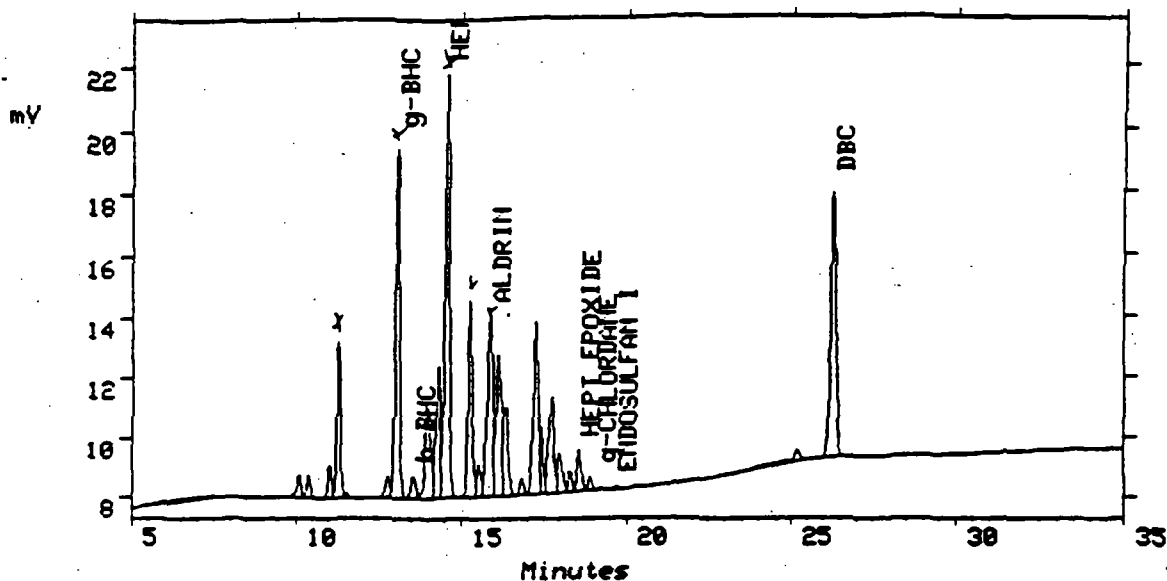
Second Plot:

Seg 1

AZ 10/16

SHELTON41 Manual Injection 1 Ch 1

C_f = 4.0



Conditions:

Sample amount		Internal standard amt	
Scale factor		Mode	Analysis
Keyboards of Remote Devices Unlocked			
Peak Detect Threshold	25	Peak Width	20 sec
Integration Delay	0.00 min	Area Reject	0
Do Not Update Retention Time		Retention Time Offset	0.00 sec
Relative Peak Window	1%	Absolute Peak Window	6 sec

Errors Reported From Integration/Quantitation:
Integration method file was not found

Results:

Peak Name	Ret Time	Area	Amount
JNKNOWN	7.495	10893	-
JNKNOWN	10.085	7356	-
JNKNOWN	10.385	5970	-
JNKNOWN	11.022	8572	-
JNKNOWN	11.294	41287	-
JNKNOWN	11.554	1416	-
JNKNOWN	12.761	6689	-
γ-BHC	13.055	102929	0.403
β-BHC	13.525	7988	0.032
JNKNOWN	13.961	37145	-
JNKNOWN	14.293	40228	-
HEPTACHLOR	14.558	133245	0.416
JNKNOWN	15.258	58895	-
JNKNOWN	15.536	9501	-
ALDRIN	15.875	73201	0.272
JNKNOWN	16.114	54489	-
JNKNOWN	16.345	29859	-
JNKNOWN	16.829	5043	-
JNKNOWN	17.250	59788	-
JNKNOWN	17.411	15378	-

00105

Peak Name	Ret Time	Area	Amount
UNKNOWN	17.744	38218	-
UNKNOWN	17.993	13833	-
KNOWN	18.296	5993	-
PT EPOXIDE	18.580	12940	0.032 ⁻
-CHLORDANE	18.900	4013	0.020 ⁻
UNKNOWN	19.242	709	-
ENDOSULFAN I	19.706	985	0.003 ⁻
UNKNOWN	20.282	605	-
UNKNOWN	25.196	8440	-
DBC	26.274	102627	0.429 ⁻

Seg 1 AR 10/14
Cp = 1/2 day

This amount was computed using manually entered responses.

- DBC RT. Shift

$$\frac{26.284 - 26.274}{26.284} \times 100\% = 0.04\%$$

- R.F.

$$\frac{409557}{4.0} = 102389 \text{ ug/ml}$$

- Det Limit

$$\frac{5/500}{102389} \times \frac{1 \text{ ug/ml}}{0.031 \text{ kg}} \times 110 \text{ ml} = 7.9 \text{ ug/kg}$$

Sp 1
6

Version: 860/V2.2
Mode: VAX2

Printed: 11-Apr-1991 at 06:19:03
GC Project: 608A

Page 1
User: UFISH

CF=2.5-1-

SHELTON 42

10 - Apr - 1991

22:21:51

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	5
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	35.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis:
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Node:

Acquired on node LACE01 system 5 for 608A

Channel:

MEGABORE 608

Sample:

External vial 42

First Plot:

Conditions

150° Init Temp - 1min

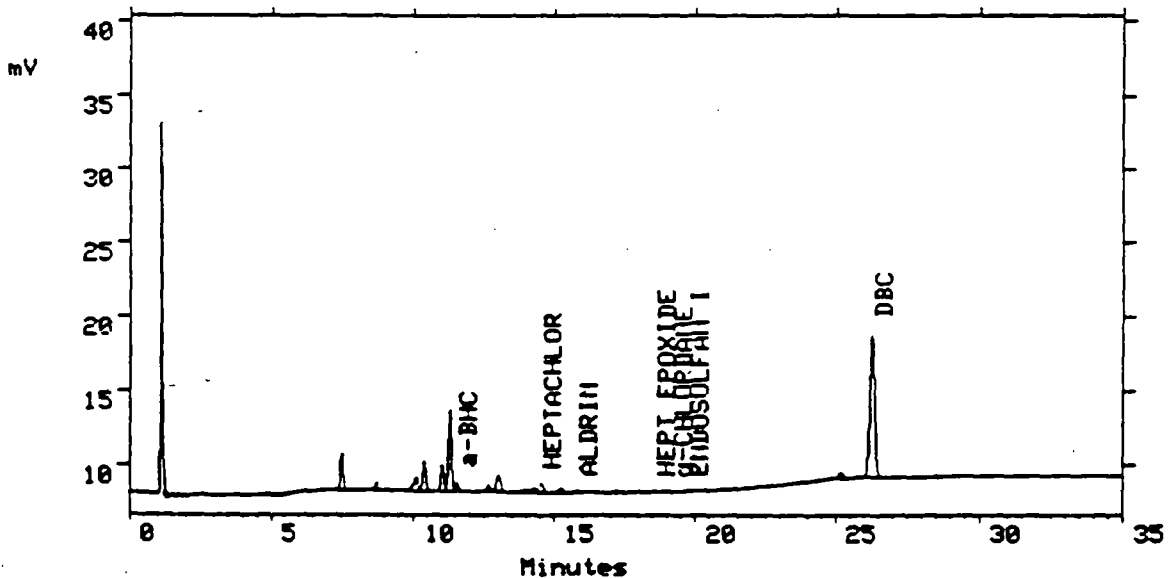
Rate - 5°/min

Final Temp - 265°/11.

dry Temp - 200°

Det Temp - 300°

SHELTON42 Manual Injection 1 Ch 1

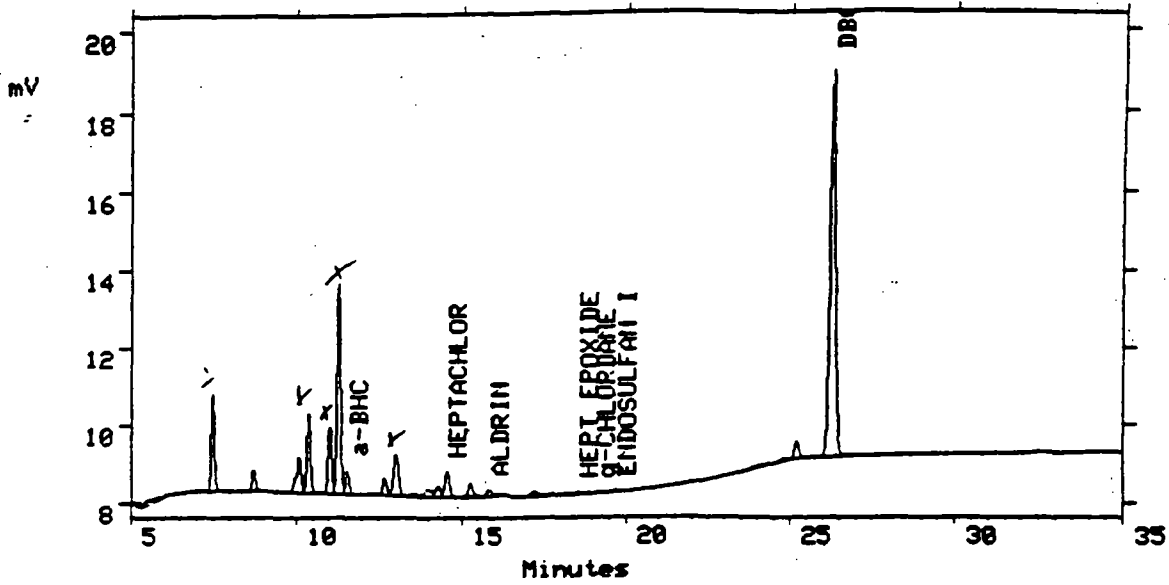


Second Plot:

Seq 1 AR 122

SHELTON42 Manual Injection 1 Ch 1

CF=254



Conditions:

Sample amount		Internal standard amt	
Scale factor		Mode	Analysis
Keyboards of Remote Devices Unlocked			
Peak Detect Threshold	25	Peak Width	20 sec
Integration Delay	0.00 min	Area Reject	0
Do Not Update Retention Time		Retention Time Offset	0.00 sec
Relative Peak Window	1%	Absolute Peak Window	6 sec

Errors Reported From Integration/Quantitation:
Integration method file was not found

Results:

Peak Name	Ret Time	Area	Amount
JNKNOWN	5.213	1212	-
JNKNOWN	6.054	3895	-
JNKNOWN	7.491	17516✓	-
JNKNOWN	8.716	4184	-
JNKNOWN	10.080	9894	-
JNKNOWN	10.378	15929 x	-
JNKNOWN	11.020	13504 x	-
JNKNOWN	11.292	42723 y	-
α-BHC	11.551	4644	0.016
JNKNOWN	12.662	3985	-
JNKNOWN	13.017	11927 ✓	-
JNKNOWN	13.544	805	-
JNKNOWN	13.960	3157	-
JNKNOWN	14.286	3061	-
HEPTACHLOR	14.557	6560	0.020
JNKNOWN	15.258	3785	-
DRIN	15.835	2045	0.008
JNKNOWN	17.223	2366	-
JNKNOWN	17.752	530	-
JNKNOWN	18.065	555	-

Peak Name	Ret Time	Area	Amount
UNKNOWN	18.290	560	-
HEPT EPOXIDE	18.568	842	0.002
UNKNOWN	24.853	2267	-
UNKNOWN	25.200	4491	-
DBC	26.278	116358	0.487

Segl

AR 1001

CF 2.5

This amount was computed using manually entered responses.

- DBC RT Shift

$$\frac{26.284 - 26.278}{26.284} \times 100\% = 0.02\%$$

- R.F.

$$\frac{101599}{2.54} = 39999 \text{ ctg/ug/ml}$$

- Det Limit

$$\frac{5 / 500 \text{ / ug/ml}}{39999} \times 10 \text{ ml} = 20.6 \text{ ug/kg}$$

Seq 1

Version: 860/V2.2
File: VAX2

Printed: 11-Apr-1991 at 06:19:33
GC Project: 608A

Page 1
User: UFISH

cf-3.65g

SHELTON 43

10 - Apr - 1991

23:01:42

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	5
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	35.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Node:
Acquired on node LACE01 system 5 for 608A

Channel:
MEGABORE 608

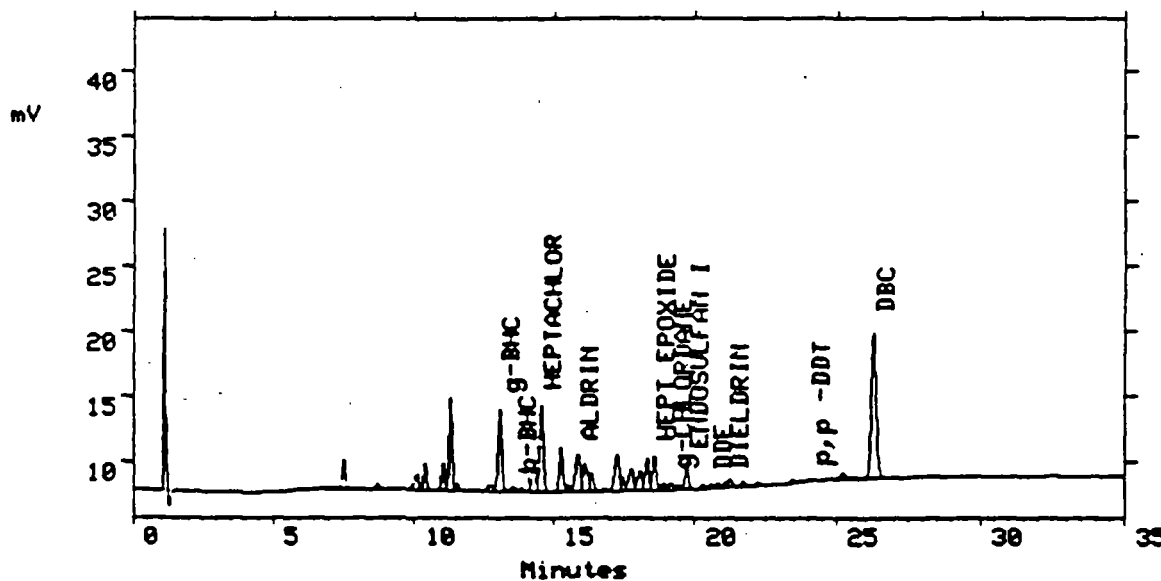
Sample:
External vial 43

First Plot:

Conditions

150° start Temp - 1min
Rate - 5°/min
Final Temp 265 / 11min.
inj Temp - 200°
Det Temp - 300°

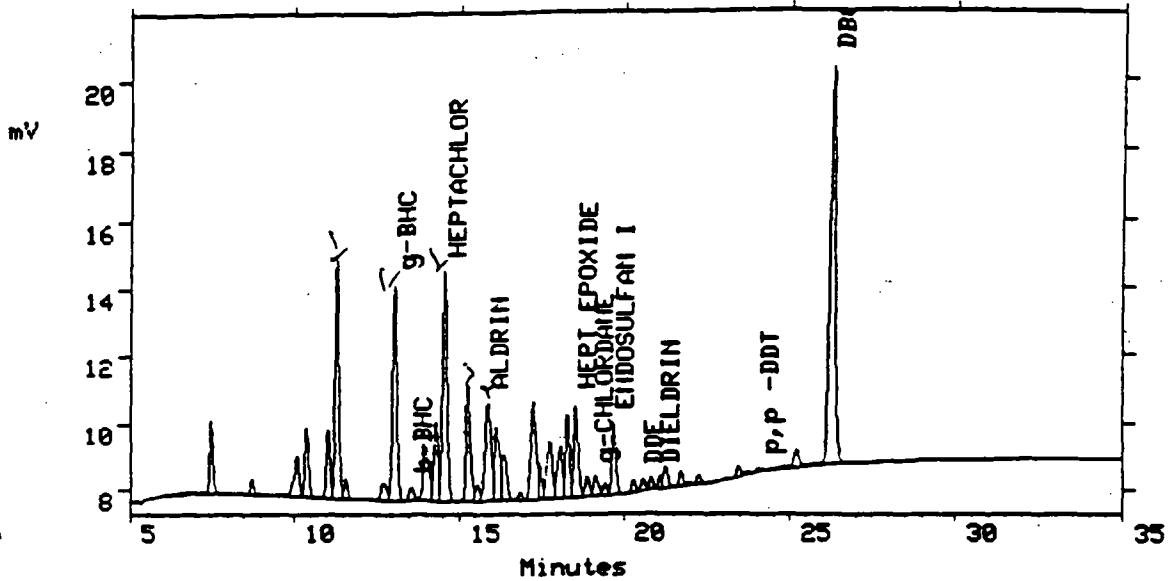
SHELTON43 Manual Injection 1 Ch 1



Second Plot:

Seq 1 AR 123

SHELTON43 Manual Injection 1 Ch 1



Conditions:

Sample amount		Internal standard amt	
Scale factor		Mode	Analysis
Keyboards of Remote Devices Unlocked			
Peak Detect Threshold	25	Peak Width	20 sec
Integration Delay	0.00 min	Area Reject	0
Do Not Update Retention Time		Retention Time Offset	0.00 sec
Relative Peak Window	1%	Absolute Peak Window	6 sec

Errors Reported From Integration/Quantitation:
Integration method file was not found

Results:

Peak Name	Ret Time	Area	Amount
JNKNOWN	6.928	2668	-
JNKNOWN	7.495	16412	-
JNKNOWN	8.721	3425	-
JNKNOWN	10.087	12701	-
JNKNOWN	10.384	16404	-
JNKNOWN	11.025	15943	-
JNKNOWN	11.297	56232 v	-
JNKNOWN	11.557	4672	-
JNKNOWN	12.701	6346	-
γ-BHC	13.056	58985 Y	0.231
δ-BHC	13.530	3979	0.016
JNKNOWN	13.966	19732	-
JNKNOWN	14.296	22028	-
HEPTACHLOR	14.561	66993 x	0.209
JNKNOWN	15.263	31684 v	-
JNKNOWN	15.538	4099	-
ALDRIN	15.875	35940 v	0.133
JNKNOWN	16.118	25362	-
JNKNOWN	16.349	13396	-
JNKNOWN	16.833	2182	-

Peak Name	Ret Time	Area	Amount
UNKNOWN	17.249	33507	-
UNKNOWN	17.417	8033	-
UNKNOWN	17.749	21038	-
UNKNOWN	18.063	17030	-
UNKNOWN	18.300	21692	-
HEPT EPOXIDE	18.565	25833	0.065
p-CHLORDANE	18.900	5534	0.027
UNKNOWN	19.151	6699	-
UNKNOWN	19.439	3053	-
ENDOSULFAN I	19.712	18429	0.056
UNKNOWN	20.284	3304	-
DE	20.572	3251	0.010
DIELDRIN	20.823	2988	0.010
UNKNOWN	21.106	2907	-
UNKNOWN	21.260	6261	-
UNKNOWN	21.713	4046	-
UNKNOWN	21.972	734	-
UNKNOWN	22.246	2589	-
UNKNOWN	23.448	2885	-
o,p -DDT	24.056	2085	0.013
UNKNOWN	24.875	1660	-
UNKNOWN	25.204	6739	-
DBC	26.281	138548	0.579

Seg 1

AR 12

CF=365

This amount was computed using manually entered responses.

- DBC P.T. Shift

$$\frac{24.284 - 24.281}{24.284} \times 100\% = 0.01\%$$

- R.F.

$$\frac{249834}{365} = 68448 \text{ pg/ml}$$

AR 1242
Seq |

Version: 860/V2.2
Device: VAX2

Printed: 11-Apr-1991 at 06:22:15
GC Project: 608A

Page 1
User: UFISH

cp = 3.154

S H E L T O N 4 4

1 0 - A p r - 1 9 9 1

2 3 : 4 1 : 2 8

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	5
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	35.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Node:

Acquired on node LACE01 system 5 for 608A

Channel:

MEGABORE 608

Conditions

150° Init Temp - 1min.

Rate - 5°/min

Final Temp / 11min.

Chg Temp - 200°

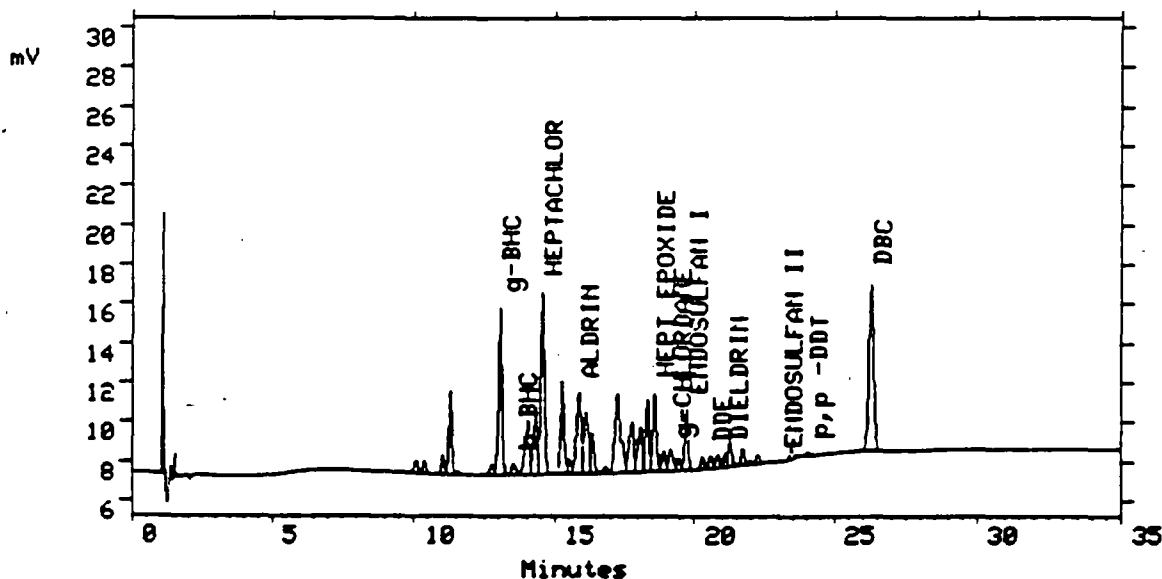
Det Temp - 300°

Sample:

External vial 44

First Plot:

SHELTON44 Manual Injection 1 Ch 1



00113

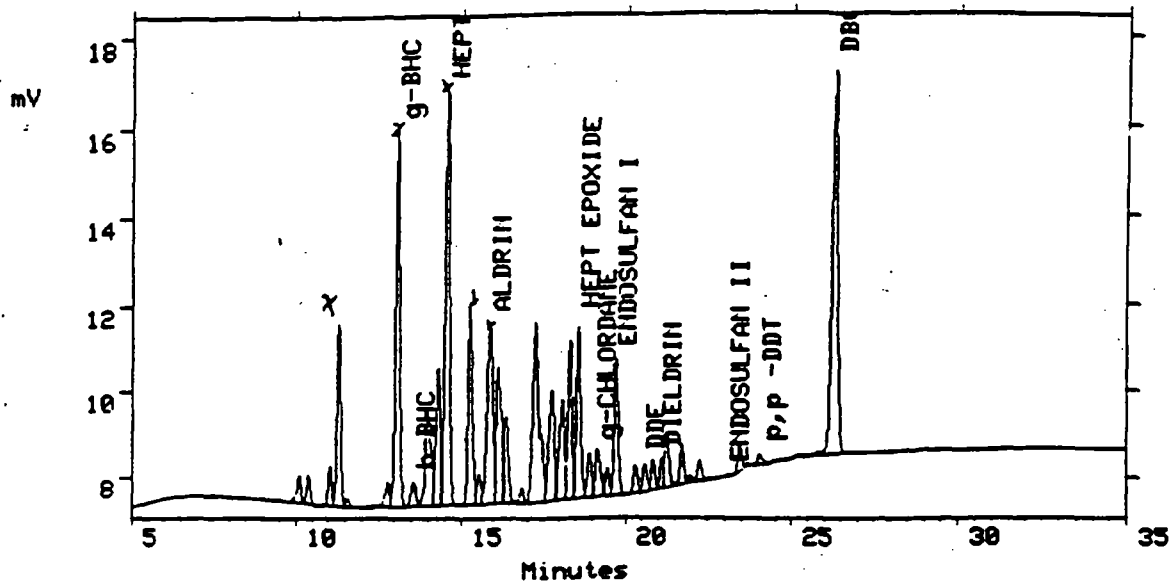
Second Plot:

Seyl

AZ124

SHELTON44 Manual Injection 1 Ch 1

Cf = 3.15



Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Manually integrated peaks have integration types with 1 or more '*'s.

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

Errors Reported From Integration/Quantitation:
 Integration method file was not found

Results:

Peak Name	Ret Time	Area	Amount
JNKNOWN	10.089	5961	-
JNKNOWN	10.388	4932	-
JNKNOWN	11.027	6659	-
JNKNOWN	11.298	33462	-
JNKNOWN	11.560	1623	-
JNKNOWN	12.763	6305	-
γ-BHC	13.059	75456	0.296
δ-BHC	13.532	5980	0.024
JNKNOWN	13.968	26885	-
JNKNOWN	14.297	29107	-
HEPTACHLOR	14.562	92018	0.287
JNKNOWN	15.263	42304	-
JNKNOWN	15.539	5841	-
ALDRIN	15.879	50450	0.187
JNKNOWN	16.118	36342	-
JNKNOWN	16.351	19308	-
JNKNOWN	16.833	3231	-
JNKNOWN	17.249	58746	-
JNKNOWN	17.750	30369	-
JNKNOWN	18.065	25559	-
JNKNOWN	18.300	31439	-

00114

Peak Name	Ret Time	Area	Amount
HEPT EPOXIDE	18.565	37477	0.094
1-CHLORDANE	18.900	9338	0.046
UNKNOWN	19.150	12213	-
UNKNOWN	19.441	5446	-
ENDOSULFAN I	19.713	27099	0.082
UNKNOWN	20.284	5897	-
DDE	20.572	6065	0.018
DIELDRIN	20.824	5968	0.021
UNKNOWN	21.109	5220	-
UNKNOWN	21.261	11669	-
UNKNOWN	21.714	8544	-
UNKNOWN	21.969	1295	-
UNKNOWN	22.248	4362	-
UNKNOWN	23.447	5039	-
UNKNOWN	23.677	515	-
p-DDT	24.049	2336	0.015
DBC	26.283	104361	0.436

Sag 1 AR1242
CF=3.15

This amount was computed using manually entered responses.

- DBC FT. Shift

$$\frac{26.284 - 26.283}{26.284} \times 100\% = 0.004\%$$

- R.F.

$$\frac{293690}{3.15} = 93235 \text{ ct/ug/ml}$$

- Det Limit

$$\frac{5/500 \text{ ug/ml}}{93235} \times \frac{10 \text{ ml}}{0.031 \text{ kg}} = 8.6 \text{ ug/kg}$$

Seg 1

Version: 860/V2.2
File: VAX2

Printed: 11-Apr-1991 at 06:24:19
GC Project: 608A

Page 1
User: UFISH

CF=4.6ug/m

SHELTON 45

11 - Apr - 1991

0 : 21 : 15

Header:			
Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	5
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	35.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:
Node:

Acquired on node LACE01 system 5 for 608A

Channel:
MEGABORE 608

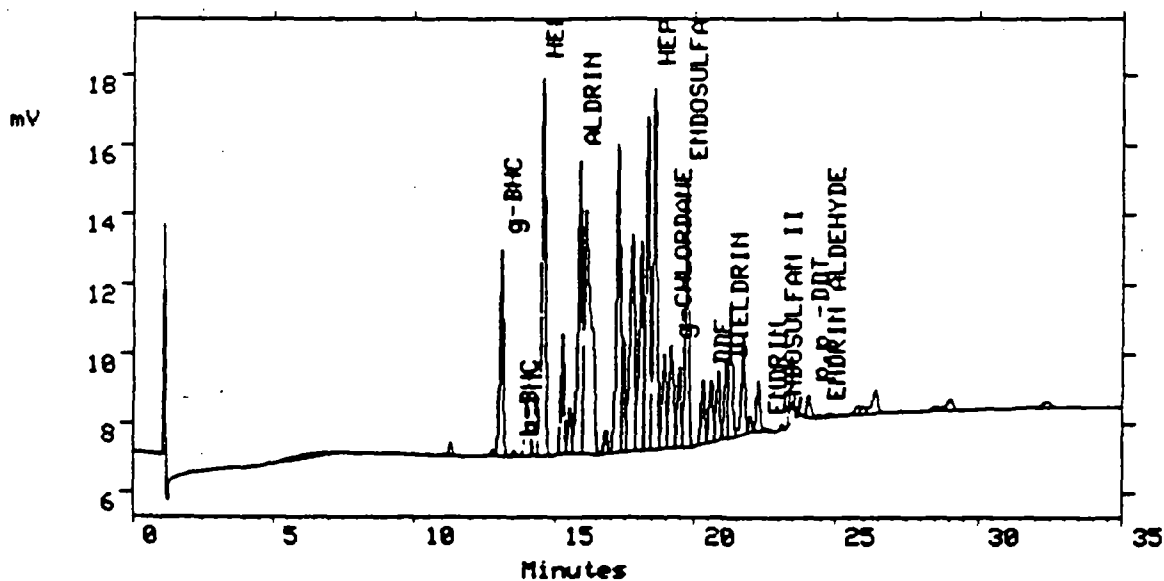
Sample:
External vial 45

First Plot:

Conditions

*150° Inlet Temp - 1 min
Rate - 5°/min
Final Temp - 265°/11
Inj Temp. - 200°
Det Temp. - 300°*

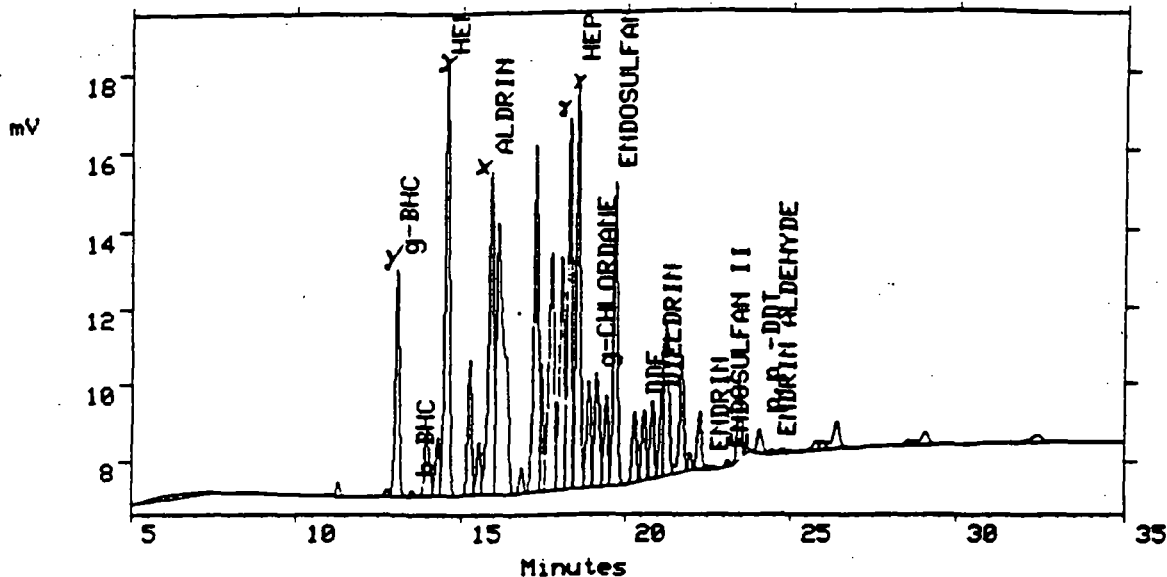
SHELTON45 Manual Injection 1 Ch 1



Second Plot:

Seg 1 22D4E
CF-4.4

SHELTON45 Manual Injection 1 Ch 1



Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Manually integrated peaks have integration types with 1 or more '*'s.

o Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

Errors Reported From Integration/Quantitation:
 Integration method file was not found

Results:

Peak Name	Ret Time	Area	Amount
JNKNOWN	7.441	10781	-
JNKNOWN	11.298	3467	-
JNKNOWN	12.769	1650	-
γ-BHC	13.060	51321*	0.201*
δ-BHC	13.523	1534	0.006*
JNKNOWN	13.962	18261	-
JNKNOWN	14.302	13034	-
HEPTACHLOR	14.563	107618*	0.336*
JNKNOWN	15.262	29425	-
JNKNOWN	15.543	11969	-
ALDRIN	15.901	87094*	0.323*
JNKNOWN	16.120	120722	-
JNKNOWN	16.834	5888	-
JNKNOWN	17.256	89264	-
JNKNOWN	17.420	21510	-
JNKNOWN	17.750	74817	-
JNKNOWN	18.072	61277	-
JNKNOWN	18.300	81618*	-
HEPT EPOXIDE	18.563	95614*	0.240*
γ-CHLORDANE	18.901	25851	0.127*
JNKNOWN	19.146	33111	-

00117

Peak Name	Ret Time	Area	Amount
JNKNOWN	19.439	20504	-
ENDOSULFAN I	19.712	67929	0.205
JNKNOWN	20.284	16885	-
DE	20.570	17340	0.051
DIELDRIN	20.823	17774	0.062
JNKNOWN	21.114	15966	-
JNKNOWN	21.261	37148	-
JNKNOWN	21.714	27986	-
JNKNOWN	21.968	3503	-
JNKNOWN	22.249	13549	-
ENDRIN	22.515	777	0.003
JNKNOWN	22.702	540	-
ENDOSULFAN II	23.103	1347	0.005
JNKNOWN	23.446	16861	-
JNKNOWN	23.672	1273	-
o,p -DDT	24.047	7132	0.045
ENDRIN ALDEHYDE	24.437	1084	0.004
JNKNOWN	24.831	2581	-
JNKNOWN	25.778	3550	-
JNKNOWN	25.987	2754	-
JNKNOWN	26.397	10186	-
JNKNOWN	28.542	2261	-
JNKNOWN	29.047	5762	-
JNKNOWN	32.388	4034	-

Seg 1

AZ 12

Cf = 4.0ug

This amount was computed using manually entered responses.

-Z.F.

$$\frac{423265}{4.0} = 105816 \text{ ct/ug/ml}$$

- Det Limit

$$\frac{5/500}{105816} \times \frac{1 \text{ ug/ml}}{10 \text{ ml}} \times \frac{10 \text{ ml}}{0.031 \text{ kg}} = 7.6 \text{ ug/kg}$$

ersion: 860/V2.2
je: VAX2

Printed: 11-Apr-1991 at 06:24:55
GC Project: 608A

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User: UFISH

CF = 4.0 ug/L

SHELTON 46

11 - Apr - 1991

1 : 01 : 02

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	5
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	35.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Node:

Acquired on node LACE01 system 5 for 608A

Channel:

MEGABORE 608

Sample:

External vial 46

First Plot:

Conditions

150° elut Temp - 1 min

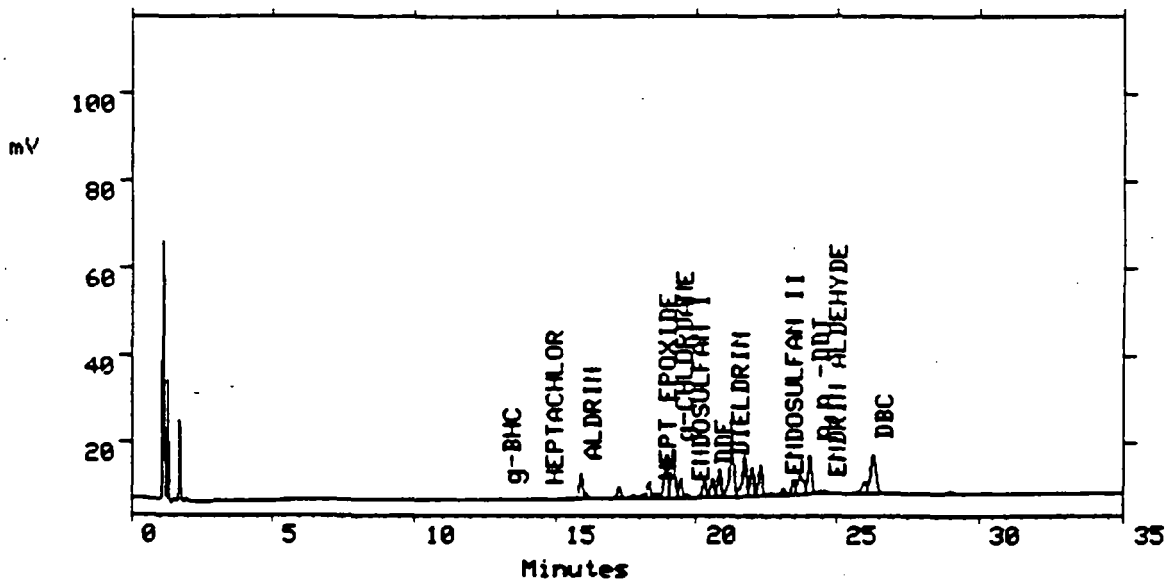
Rate - 5°/min

Final Temp - 265°/11 min

elut Temp - 200°

Det Temp - 300°

SHELTON46 Manual Injection 1 Ch 1

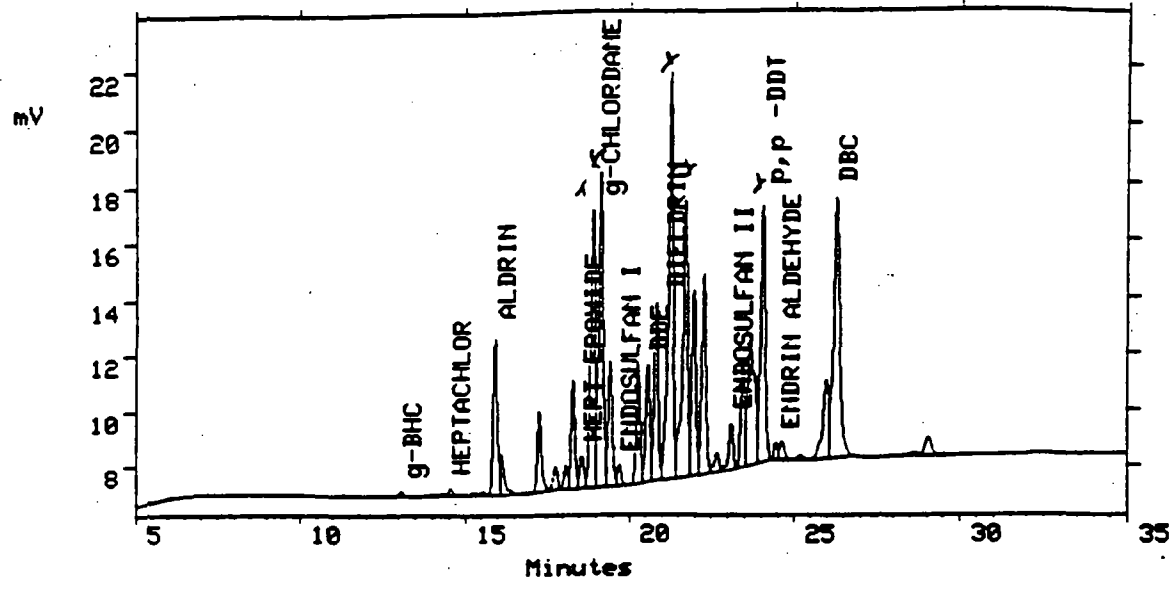


Second Plot:

Seq 1 AR 1254

SHELTON46 Manual Injection 1 Ch 1

CF = 4.04



Conditions:

Sample amount		Internal standard amt	
Scale factor		Mode	Analysis
Keyboards of Remote Devices Unlocked			
Peak Detect Threshold	25	Peak Width	20 sec
Integration Delay	0.00 min	Area Reject	0
Do Not Update Retention Time		Retention Time Offset	0.00 sec
Relative Peak Window	1%	Absolute Peak Window	6 sec

Errors Reported From Integration/Quantitation:
Integration method file was not found

Results:

Peak Name	Ret Time	Area	Amount
JNKNOWN	6.060	1046	-
JNKNOWN	11.302	615	-
g-BHC	13.061	1844	0.007
JNKNOWN	13.979	971	-
JNKNOWN	14.300	765	-
HEPTACHLOR	14.555	2761	0.009
JNKNOWN	15.263	959	-
JNKNOWN	15.544	963	-
ALDRIN	15.908	50717	0.188
JNKNOWN	16.107	14147	-
JNKNOWN	17.260	26315	-
JNKNOWN	17.764	8264	-
JNKNOWN	18.080	7295	-
JNKNOWN	18.302	33869	-
HEPT EPOXIDE	18.566	11291	0.028
-CHLORDANE	18.900	92124	0.452
JNKNOWN	19.139	109293	-
JNKNOWN	19.441	39788	-
ENDOSULFAN I	19.710	6734	0.020
JNKNOWN	20.281	36806	-

Peak Name	Ret Time	Area	Amount
DE	20.569	38434	0.114 [^]
DELDRIN	20.824	55723	0.195 [^]
UNKNOWN	21.261	146274 ^v	-
UNKNOWN	21.711	105953 ^x	-
UNKNOWN	21.967	59792	-
UNKNOWN	22.277	67497	-
UNKNOWN	22.678	7717	-
ENDOSULFAN II	23.100	15647	0.055 [^]
UNKNOWN	23.449	33098	-
UNKNOWN	23.670	68175	-
p -DDT	24.039	88942 ^x	0.556 [^]
ENDRIN ALDEHYDE	24.440	5370	0.021 [^]
UNKNOWN	24.630	7011	-
UNKNOWN	25.207	1938	-
UNKNOWN	25.987	36983	-
JBC	26.283	124854	0.522 [^]
UNKNOWN	28.622	1911	-
UNKNOWN	29.048	9162	-
UNKNOWN	29.608	519	-

Seg 1 AR 125
cf=4.0

This amount was computed using manually entered responses.

- DBC P.T. stuff

$$\frac{26.284 - 26.283}{26.284} \times 100\% = 0.004\%$$

- P.F.

$$\frac{542506}{4.0} = 135647 \text{ pg/lml}$$

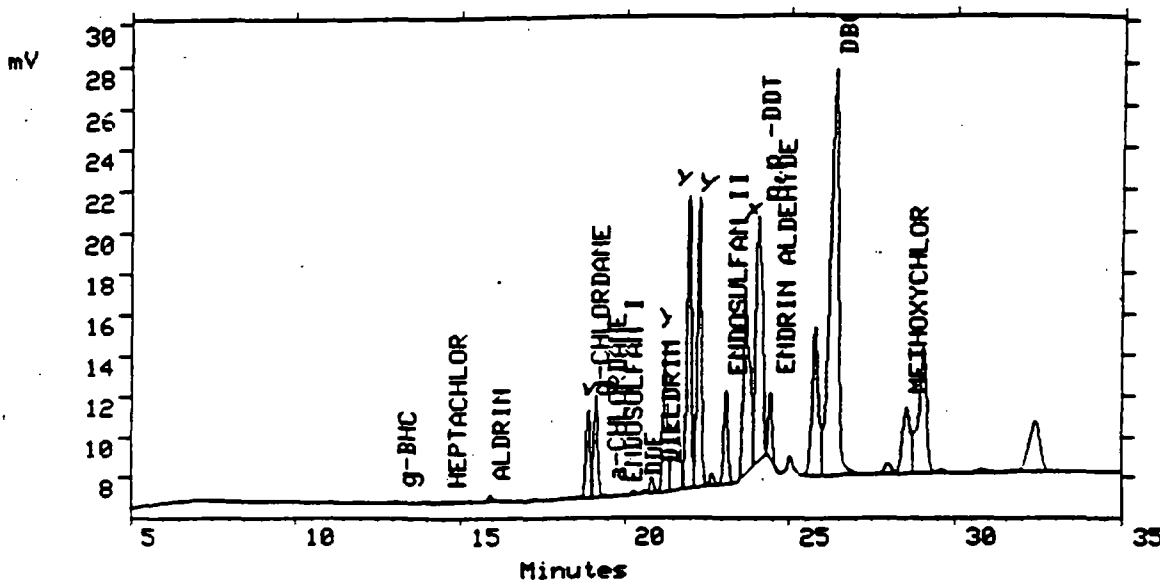
- D.d Limit

$$\frac{5/500 / \text{ug/lml}}{135647} \times \frac{10 \text{ml}}{0.03 \text{kg}} = 5.9 \text{ ug/kg}$$

cond Plot:

Seyl
LR1200

SHELTON47 Manual Injection 1 Ch 1



4-40

Conditions:

Sample amount Internal standard amt
Scale factor Mode Analysis
Keyboards of Remote Devices Unlocked

Manually integrated peaks have integration types with 1 or more '*'s.

Do Not Update Retention Time Retention Time Offset 0.00 sec
Relative Peak Window 1% Absolute Peak Window 6 sec

Errors Reported From Integration/Quantitation:
Integration method file was not found

Results:

Peak Name	Ret Time	Area	Amount
g-BHC	13.063	1099	0.004*
JNKNOWN	13.971	948	-
HEPTACHLOR	14.563	1207	0.004*
JNKNOWN	15.263	569	-
ALDRIN	15.912	2989	0.011*
JNKNOWN	17.258	675	-
g-CHLORDANE	18.906	40108	0.197*
JNKNOWN	19.139	44490Y	-
JNKNOWN	20.284	1731	-
DDE	20.571	922	0.003*
DIELDRIN	20.828	6275	0.022*
JNKNOWN	21.240	67460Y	-
JNKNOWN	21.619	55442	-
JNKNOWN	21.969	131616Y	-
JNKNOWN	22.285	128725Y	-
JNKNOWN	22.677	5024	-
DOSULFAN II	23.101	41253	0.146*
JNKNOWN	23.676	117389	-
p-DDT	24.056	162851Y	1.018*
ENDRIN ALDEHYDE	24.434	25336	0.100*
JNKNOWN	25.772	100018	-

00123

Peak Name	Ret Time	Area	Amount
DBC	26.368	351320	1.469
UNKNOWN	27.989	6984	-
THOXYCHLOR	28.530	53021	0.498
UNKNOWN	29.049	106096	-
UNKNOWN	29.603	2246	-
UNKNOWN	30.823	2755	-
UNKNOWN	31.707	1059	-
UNKNOWN	32.386	57704	-

Seg 1 AR120
CF=4

This amount was computed using manually entered responses.

- DBC RT. Shift

$$\frac{26.284 - 26.386}{26.284} \times 100\% = 0.32\%$$

- R.F.

$$\frac{467682}{4.0} = 116921 \text{ ctg/ug/ml}$$

- Det Limit

$$\frac{5/500 \text{ ug/ml}}{116921} \times \frac{100 \text{ ug}}{0.05 \text{ kg}} = 6.9 \text{ ug/kg}$$

Version: 860/V2.2
 Name: VAX2

Printed: 15-Apr-1991 at 14:43:39
 GC Project: 608A

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 User: URISH

5.421 ug/l

SHELTONDL8

12 - Apr - 1991

19:20:32

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	5
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Mode:
 Acquired on node LACE01 system 5 for 608A

Channel:
 MEGABORE 608

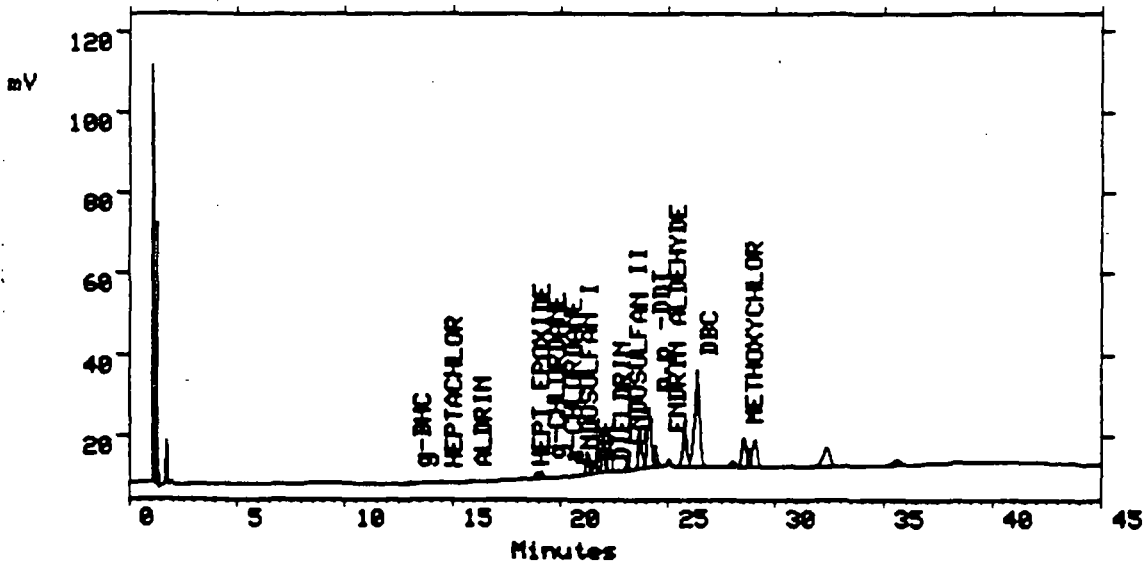
Sample:
 External vial 8

First Plot:

Conditions

Start Temp - 150° f
 Rate - 5°/min
 Final Temp - 265° f
 Inj Temp - 200°
 Det Temp - 300°

SHELTONDL8 Manual Injection 1 Ch 1

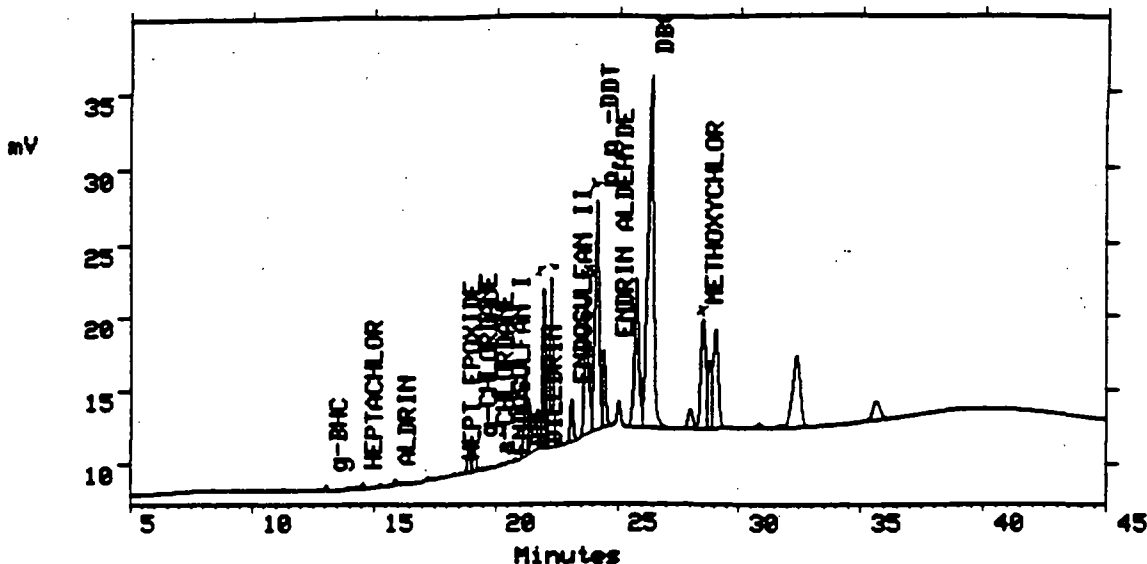


Second Plot:

Seg 1 AR 1260

SHELTONDL8 Manual Injection 1 Ch 1

S.4704



Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Manually integrated peaks have integration types with 1 or more '*'s.

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

Errors Reported From Integration/Quantitation:
 Integration method file was not found

GC Results:

Peak Name	Ret Time	Area	Amount
UI KNOWN	11.297	1184	-
g-BHC	13.060	3813	0.015^
UI KNOWN	13.969	816	-
UI KNOWN	14.297	763	-
H: PTACHLOR	14.564	3503	0.011^
UI KNOWN	15.263	1592	-
A: DRIN	15.904	3150	0.012^
UI KNOWN	17.256	1523	-
UI KNOWN	17.770	569	-
UI KNOWN	18.303	1228	-
H: PT EPOXIDE	18.575	976	0.002^
g- CHLORDANE	18.905	13437	0.066^
UI KNOWN	19.136	15836	-
a- CHLORDANE	19.450	632	0.003^
EI DOSULFAN I	19.719	735	0.002^
UI KNOWN	20.292	692	-
DI E	20.579	612	0.002^
D: ELDRIN	20.832	1434	0.005^
UI KNOWN	21.227	54232	-
UI KNOWN	21.619	29510	-
UI KNOWN	21.964	94587 x	-

00120

Peak Name	Ret Time	Area	Amount
U1 KNOWN	22.283	100660	-
U1 KNOWN	22.681	1423	-
E1 DOSULFAN II	23.098	26821	0.095
U1 KNOWN	23.671	106491*	-
p p -DDT	24.156	191587*	1.198
E1 DRIN ALDEHYDE	24.429	45735	0.180
U1 KNOWN	25.767	131808	-
D1 C	26.374	398762	1.679
U1 KNOWN	27.985	17650	-
M1 THOXYCHLOR	28.515	108402*	1.018
U1 KNOWN	28.804	45940	-
U1 KNOWN	29.041	99479	-
U1 KNOWN	29.596	814	-
U1 KNOWN	30.819	5851	-
U1 KNOWN	31.709	2927	-
U1 KNOWN	32.383	107389	-
U1 KNOWN	35.635	27154	-

Seq 1 AR 1262
 cf. 5.4.24/1262

* This amount was computed using manually entered responses.

- DBC P.T. Shift

$$\frac{26.284 - 26.374}{26.284} \times 100\% = 0.34\%$$

* Matrix interference

- R.F.

$$\frac{601727}{5.424} = 110938 \text{ ct/ug/ml}$$

- Det Limit

$$\frac{5/500 / 1 \text{ ug/ml}}{110938} \times \frac{10 \text{ ml}}{0.031145} = 7.3 \text{ ug/kg}$$

Version: 860/V2.2
Node: VAX2

Printed: 15-Apr-1991 at 14:44:51
GC Project: 608A

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User: URISH

(f-3084)

SHELTONDL9

12 - Apr - 1991

20:09:36

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	5
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Mode:

Acquired on node LACE01 system 5 for 608A

Channel:

MEGABORE 608

Sample:

External vial 9

First Plot:

SHELTONDL9 Manual Injection 1 Ch 1

Condition

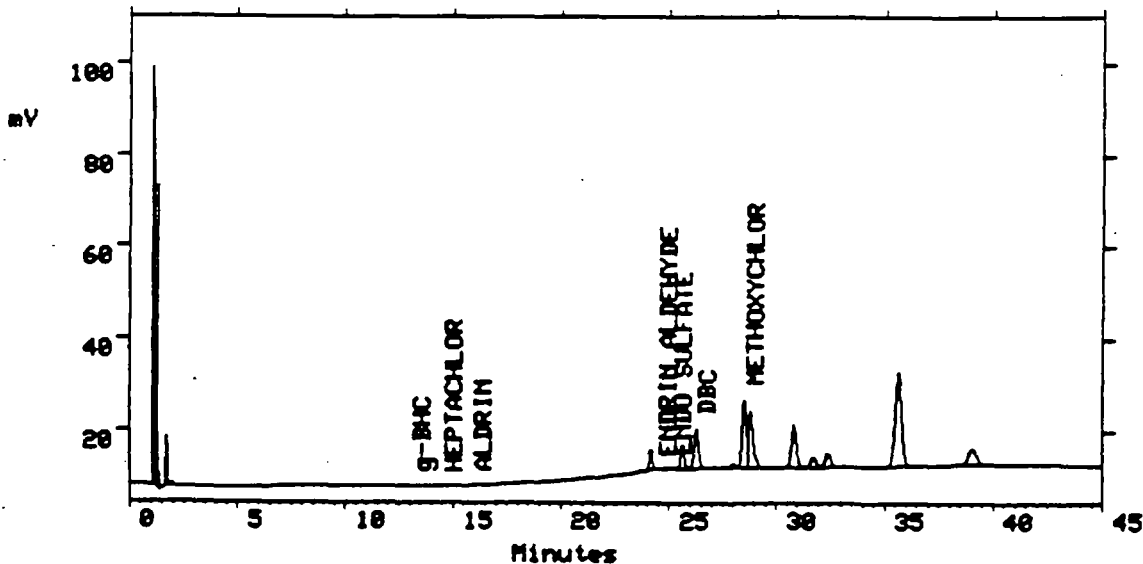
Start Temp - 150° for 1 min

Rate - 5°/min

Final Temp - 265° for 2 min

inj Temp - 200°

Det Temp - 300°



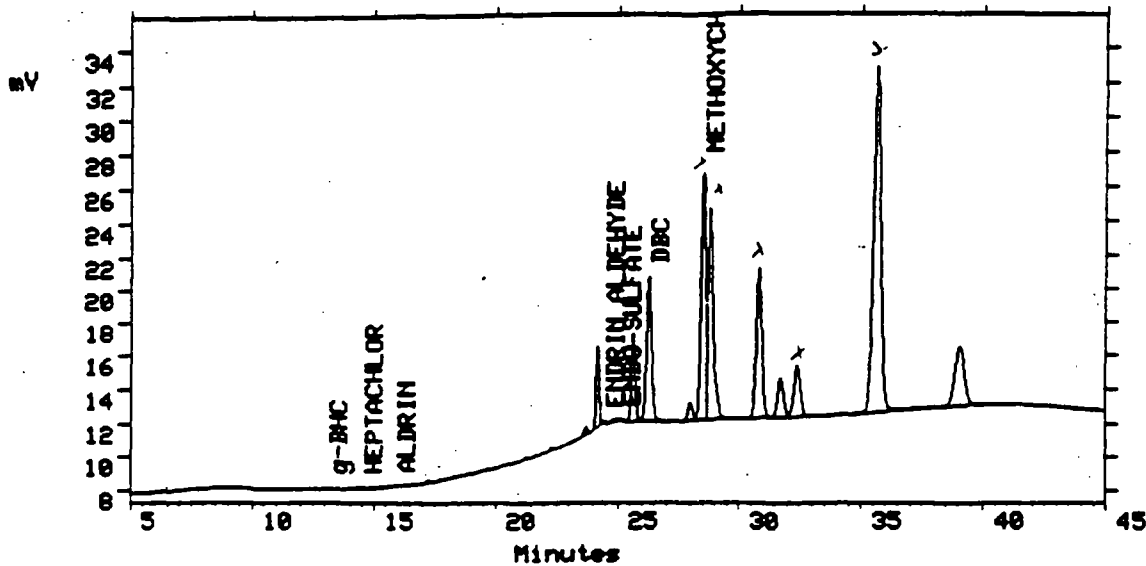
Second Plot:

Seq 1

ATD

cp = 30mg/l

SHELTONDL9 Manual Injection 1 Ch 1



Conditions:

Sample amount		Internal standard amt	
Scale factor		Mode	Analysis
Keyboards of Remote Devices Unlocked			
Peak Detect Threshold	25	Peak Width	20 sec
Integration Delay	0.00 min	Area Reject	0
Do Not Update Retention Time		Retention Time Offset	0.00 sec
Relative Peak Window	1%	Absolute Peak Window	6 sec

Errors Reported From Integration/Quantitation:
Integration method file was not found

GC Results:

Peak Name	Ret Time	Area	Amount
g-BHC	13.059	769	0.003 ^x
HEPTACHLOR	14.566	1008	0.003 [^]
UNKNOWN	15.264	565	-
ALDRIN	15.912	527	0.002 [^]
UNKNOWN	17.265	586	-
UNKNOWN	18.308	939	-
UNKNOWN	21.266	702	-
UNKNOWN	22.294	1159	-
UNKNOWN	23.681	4006	-
UNKNOWN	24.169	41487	-
ENDOSULFATE	24.441	956	0.004 [^]
UNKNOWN	24.860	1935	-
ENDO SULFATE	25.031	754	0.002 [^]
UNKNOWN	25.628	58138	-
DBC	26.286	125244	0.527 [^]
UNKNOWN	27.985	13822	-
METHOXYCHLOR	28.512	201564 ^y	1.893 [^]
UNKNOWN	28.805	191102 ^x	-
UNKNOWN	30.826	145571 ^x	-
UNKNOWN	31.718	38976	-

00123

Peak Name	Ret Time	Area	Amount
UI KNOWN	32.409	55283	-
UI KNOWN	35.632	434088	-
UI KNOWN	39.055	95002	-

Scy 1
FR1
CF = 3.05 ug/l

This amount was computed using manually entered responses.

- DBC FT. Shift

$$\frac{26.284 - 26.284}{26.284} \times 100\% = 0.01\%$$

- P.F.

$$\frac{1027608}{308} = 333639 \text{ ug/ml}$$

Version: 860/V2.2
Node: VAX2

Printed: 15-Apr-1991 at 14:36:53
GC Project: 608A

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User: URISH

SHELTONDL6

12 - Apr - 1991

17:42:22

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	5
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Mode:

Acquired on node LACE01 system 5 for 608A

Channel:

MEGABORE 608

Sample:

External vial 6

First Plot:

Conditions

Start Temp - 150° for 1m

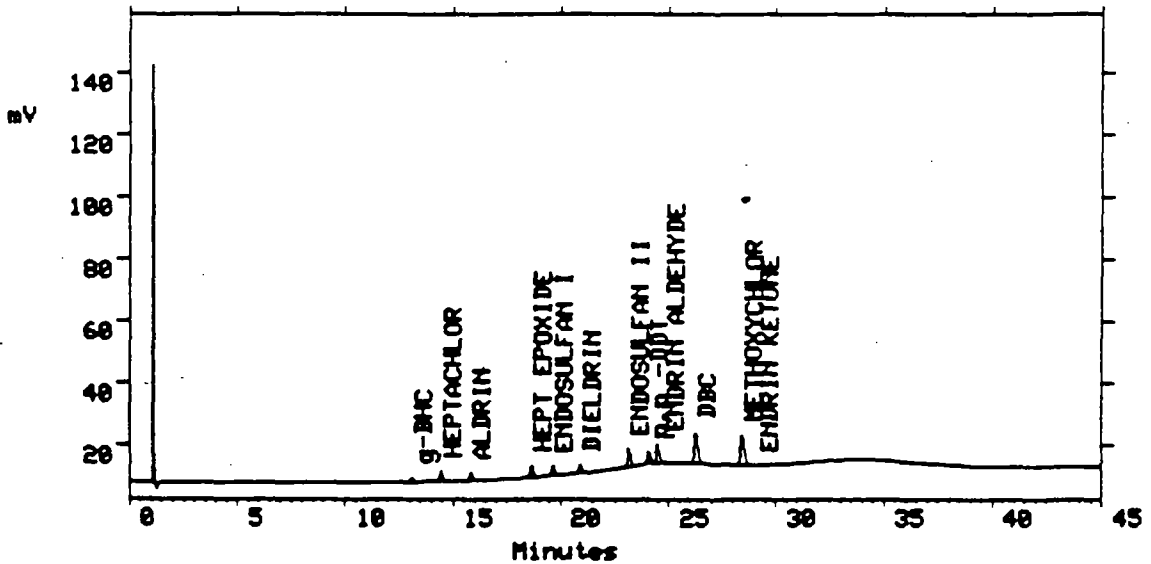
Rate - 5°/min

Final Temp - 265° for 0

Relig Temp 200°

Det Temp - 300°

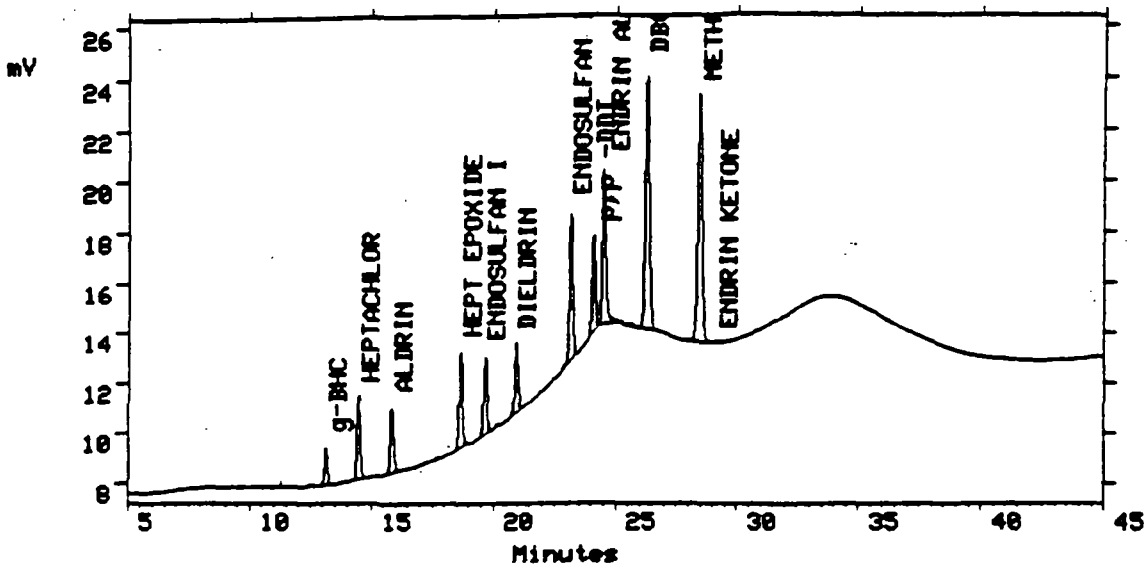
SHELTONDL6 Manual Injection 1 Ch 1



Second Plot:

Seg 1
Instr.
Cont.

SHELTONDL6 Manual Injection 1 Ch 1



Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Manually integrated peaks have integration types with 1 or more '*'s.

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

Errors Reported From Integration/Quantitation:
 Integration method file was not found

GC Results:

Peak Name	Ret Time	Area	Amount
UNKNOWN	12.513	697	-
g-BHC	13.124	12910	0.051*
HEPTACHLOR	14.470	31778	0.099*
ALDRIN	15.846	25785	0.096*
HEPT EPOXIDE	18.655	36319	0.091*
ENDOSULFAN I	19.656	30114	0.091*
UNKNOWN	20.179	606	-
DIELDRIN	20.924	25905	0.091*
UNKNOWN	22.967	836	-
ENDOSULFAN II	23.150	53683	0.189*
pp-DDT	24.066	33354	0.209*
ENDRIN ALDEHYDE	24.491	64149	0.252*
UNKNOWN	25.615	1168	-
DBC	26.270	118775	0.497*
METHOXYCHLOR	28.440	121058	1.137*
ENDRIN KETONE	29.170	836	0.003*

This amount was computed using manually entered responses.

-DBC P.T. Shift

$$\frac{26.284 - 26.270}{26.284} \times 100\% = 0.05\%$$

Version: 860/V2.2
Name: VAX2

Printed: 15-Apr-1991 at 14:38:52
GC Project: 608A

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User: URISH

SHELTONDL7

12 - Apr - 1991

18:31:29

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	5
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Mode:
Acquired on node LACE01 system 5 for 608A

Conditions

Channel:
MEGABORE 608

Start Temp - 150° for 1 min

Rate - 5°/min

Final Temp - 265° for 2 min

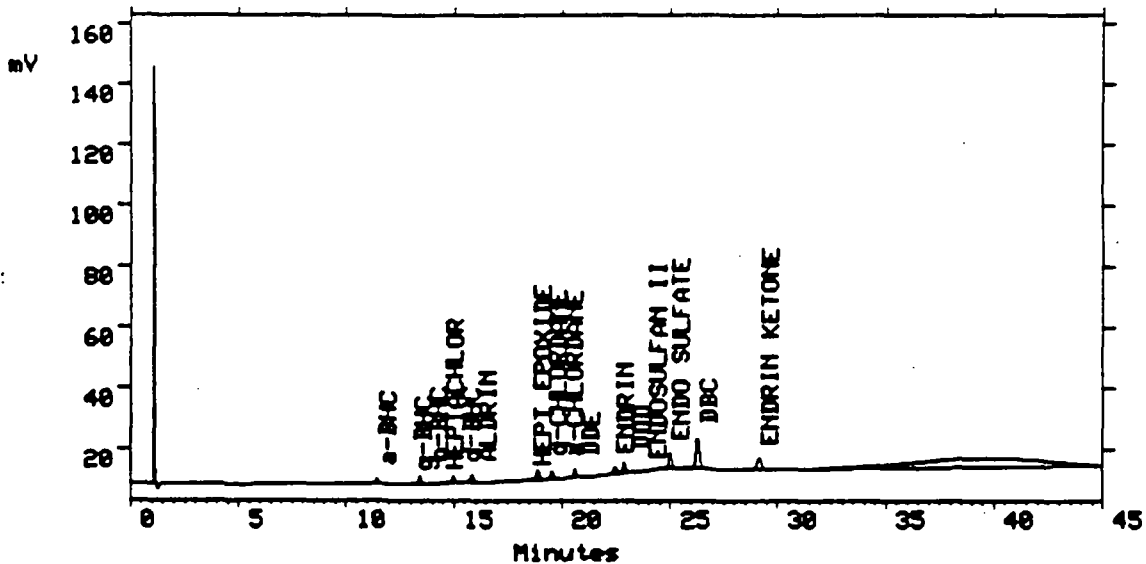
dry Temp - 200°

Red Temp - 300°

Sample:
External vial 7

First Plot:

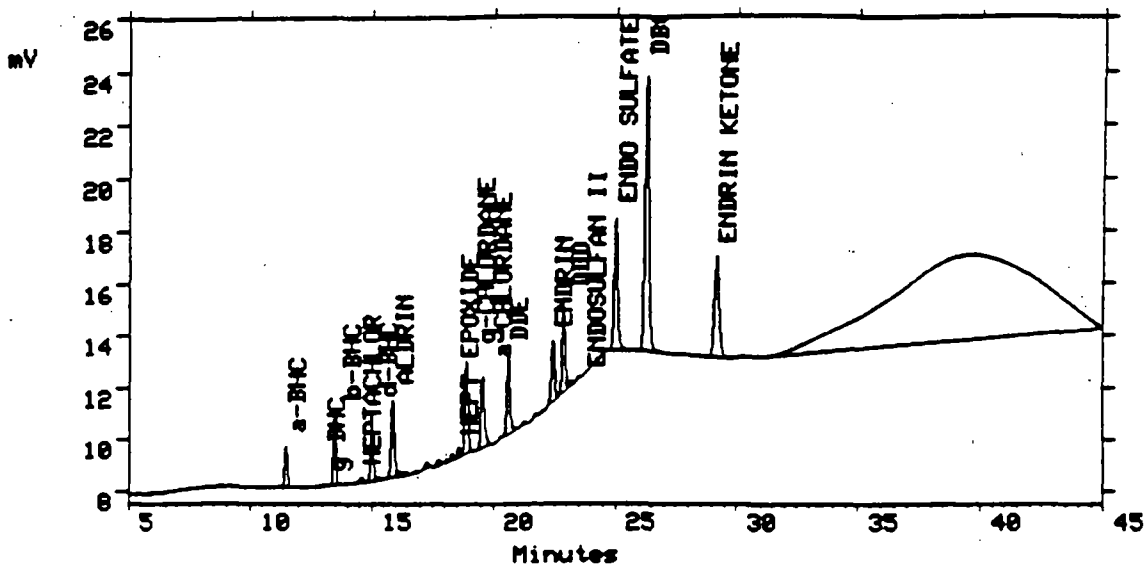
SHELTONDL7 Manual Injection 1 Ch 1



Second Plot:

See 1 Inc Cont

SHELTONDL7 Manual Injection 1 Ch 1



Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Manually integrated peaks have integration types with 1 or more '*'s.

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

Errors Reported From Integration/Quantitation:
 Integration method file was not found

GC Results:

Peak Name	Ret Time	Area	Amount
UI KNOWN	8.711	534	-
a-BHC	11.454	13157	0.046*
g-BHC	13.062	709	0.003*
b-BHC	13.443	22166	0.089*
H. PTACHLOR	14.553	2358	0.007*
d-BHC	14.989	22695	0.089*
UI KNOWN	15.263	945	-
A. DRIN	15.851	30588	0.113*
UI KNOWN	16.114	2064	-
UI KNOWN	16.368	904	-
UI KNOWN	17.253	1991	-
UI KNOWN	17.735	2374	-
UI KNOWN	18.072	1072	-
UI KNOWN	18.299	2103	-
H. PT EPOXIDE	18.567	3343	0.008*
g- CHLORDANE	18.876	34255	0.168*
a- CHLORDANE	19.547	30087	0.164*
D. E	20.610	27775	0.082*
UI KNOWN	21.270	1236	-
UI KNOWN	21.722	724	-
EI DRIN	22.423	20131	0.068*

Peak Name	Ret Time	Area	Amount
D: D	22.863	29692	0.168 [^]
E: DOSULFAN II	23.171	1449	0.005 [^]
E: DO SULFATE	25.013	52955	0.163 [^]
D: C	26.274	125731	0.526 [^]
E: DRIN KETONE	29.158	54712	0.164 [^]
U: KNOWN	39.762	1395520	-

Seg 1
Ino B
Cont

This amount was computed using manually entered responses.

- DBC P.T. Shift

$$\frac{26.284 - 26.274}{26.284} \times 100\% = 0.04\%$$

Version: 860/V2.2
Node: VAX2

Printed: 15-Apr-1991 at 15:27:54
GC Project: 608A

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User: URISH

SHELTONDL20

13 - Apr - 1991

5:09:50

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	5
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Mode:
Acquired on node LACE01 system 5 for 608A

Channel:
MEGABORE 608

Sample:
External vial 20

First Plot:

SHELTONDL20 Manual Injection 1 Ch 1

Conditions

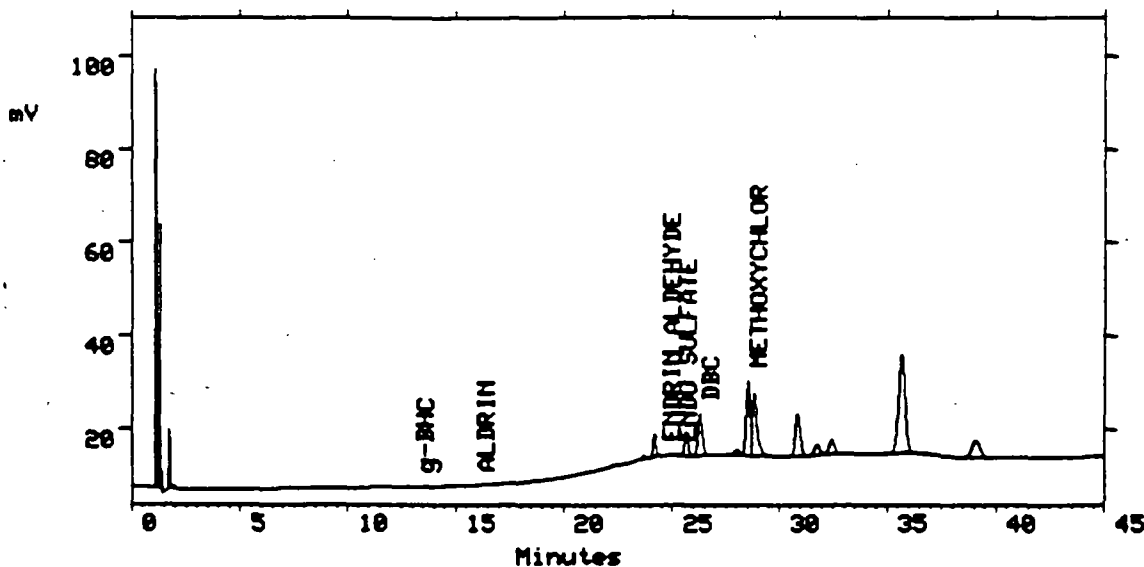
Start Temp - 150° for 1m

Rate - 5°/min

Final Temp - 265° for 2

Hold Temp - 200°

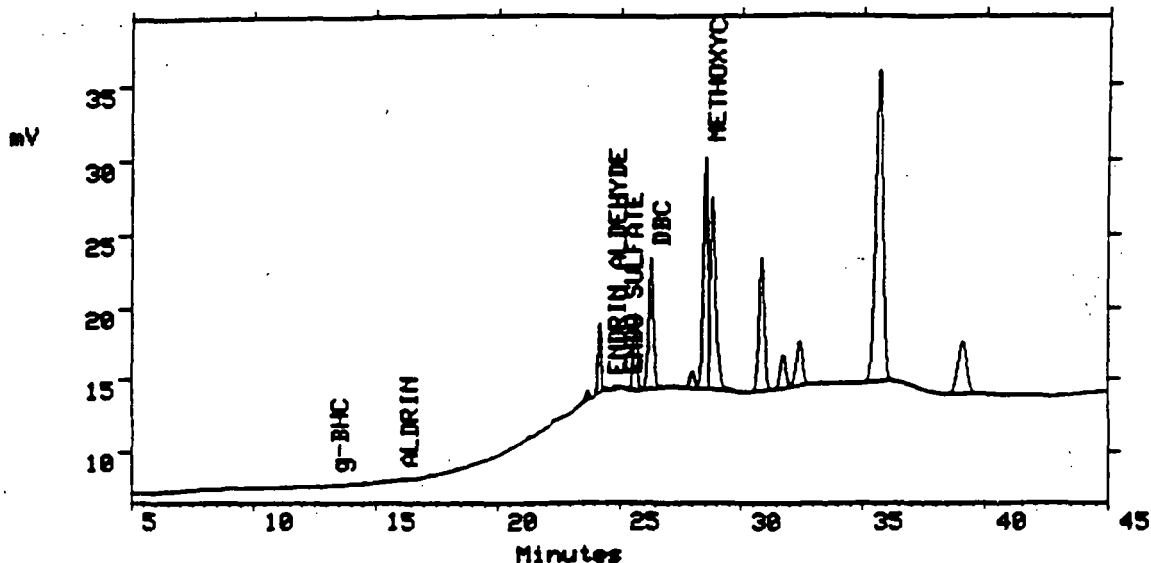
Det Temp - 300°



Second Plot:

Seg 1
AR 126
Cont

SHELTONDL20 Manual Injection 1 Ch 1



Conditions:
 Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Manually integrated peaks have integration types with 1 or more '*'s.

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

Errors Reported From Integration/Quantitation:
 Integration method file was not found

- DBC P.T. Shift

$$\frac{26.284 - 26.296}{26.284} \times 100 = 0$$

Peak Name	Ret Time	Area	Amount
g-BHC	13.070	897	0.004*
UI KNOWN	14.573	891	-
UI KNOWN	15.278	709	-
A: DRIN	15.923	559	0.002*
UI KNOWN	17.276	568	-
UI KNOWN	18.322	833	-
UI KNOWN	23.688	8496	-
UI KNOWN	24.177	42632	-
EI DRIN ALDEHYDE	24.450	1016	0.004*
UI KNOWN	24.860	2060	-
EI DO SULFATE	25.036	830	0.003*
UI KNOWN	25.639	58900	-
DI C	26.296	128915	0.543*
UI KNOWN	27.995	15464	-
M: THOXYCHLOR	28.523	212938*	2.000*
UI KNOWN	28.819	208817*	-
UI KNOWN	30.842	150021*	-
UI KNOWN	31.739	39179	-
UI KNOWN	32.427	57628*	-
UI KNOWN	35.653	456021*	-
UI KNOWN	39.086	91499	-

$$\frac{1085425 \text{ ct}}{3.08 \text{ } \mu\text{g/ml}} = 352411 \text{ c}$$

$$\% D = 5.6\%$$

* This amount was computed using manually entered responses.

00137

Version: 860/V2.2
Name: VAX2

Printed: 15-Apr-1991 at 15:59:56
GC Project: 608A

Page 1
User: URISH

SHELTONDL32

13 - Apr - 1991

14:58:19

Header:			
Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	5
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Mode:

Acquired on node LACE01 system 5 for 608A

Channel:

MEGABORE 608

Sample:

External vial 32

First Plot:

Condition

Start Temp - 150° for 1

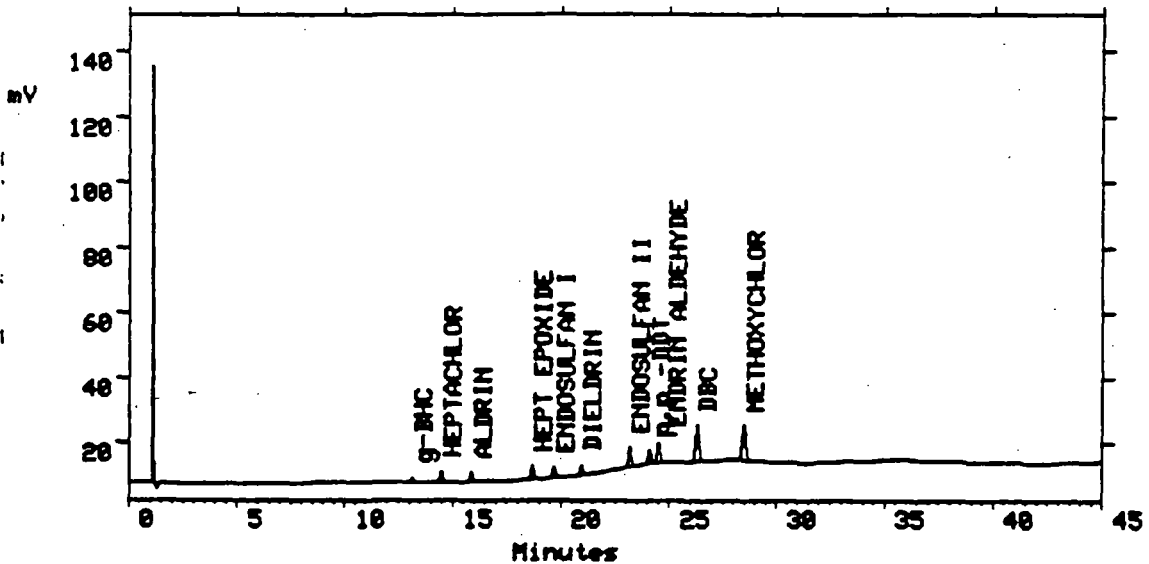
Rate: 5°/min

Final Temp - 265° for 2

Inj Temp - 200°

Det Temp - 300°

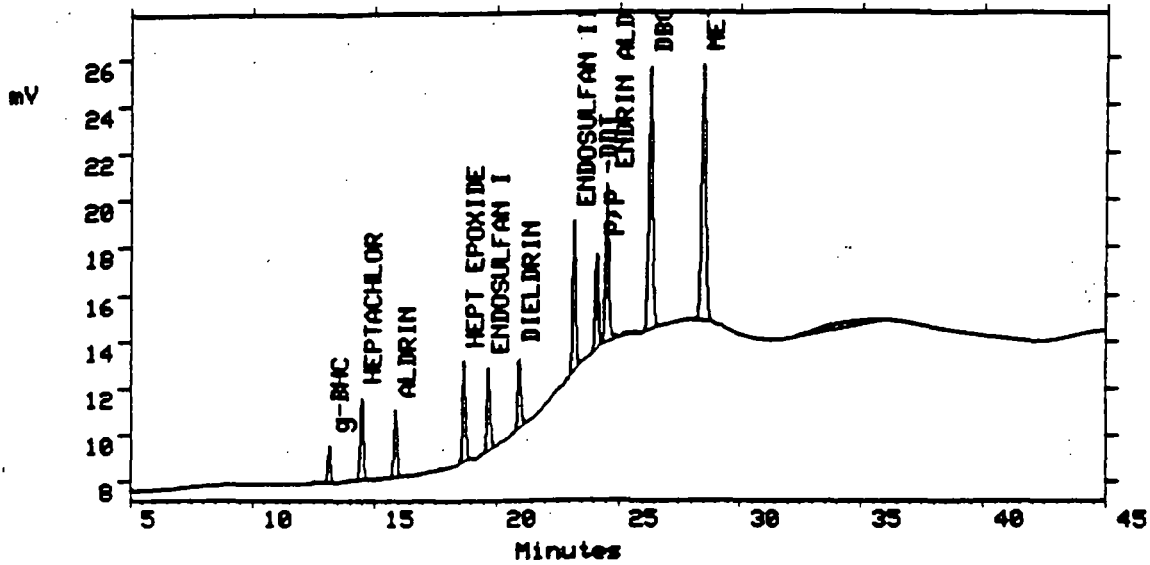
SHELTONDL32 Manual Injection 1 Ch 1



Second Plot:

Seq 1
InoA
(Ed)

SHELTONDL32 Manual Injection 1 Ch 1



Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Manually integrated peaks have integration types with 1 or more '*'s.

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

Errors Reported From Integration/Quantitation:
 Integration method file was not found

GC Results:

Peak Name	Ret Time	Area	Amount
UNKNOWN	12.533	754	-
g-BHC	13.147	13455	0.053
HEPTACHLOR	14.493	33977	0.106
ALDRIN	15.872	27241	0.101
UNKNOWN	17.729	561	-
HEPT EPOXIDE	18.680	39429	0.099
ENDOSULFAN I	19.682	33684	0.102
DELDRIN	20.949	28128	0.098
ENDOSULFAN II	23.176	55661	0.196
PTP-DDT	24.091	36117	0.226
DRIN ALDEHYDE	24.518	67093	0.264
UNKNOWN	25.257	622	-
UNKNOWN	25.666	1495	-
DBC	26.302	128261	0.540
METHOXYCHLOR	28.480	135366	1.272
UNKNOWN	35.746	34808	-

This amount was computed using manually entered responses.

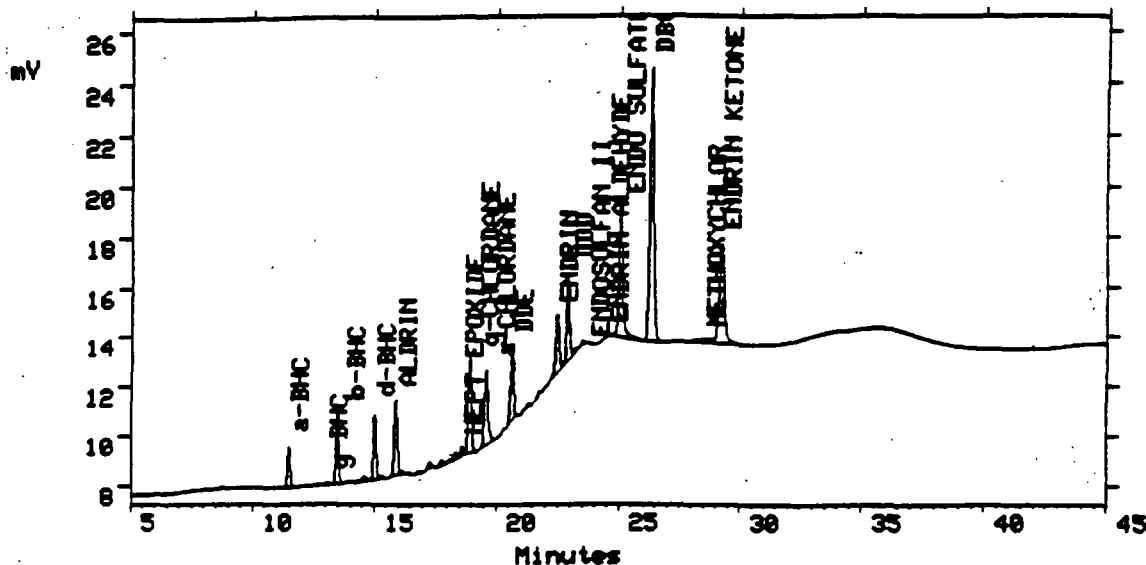
- DBC R.T. Shift

$$\frac{26.284 - 26.302}{26.284} \times 100\% = 0.07\%$$

Second Plot:

Seq 1
Ins B
(Ed)

SHELTONDL33 Manual Injection 1 Ch 1



Conditions:

Sample amount		Internal standard amt	
Scale factor		Mode	Analysis
Keyboards of Remote Devices Unlocked			
Peak Detect Threshold	25	Peak Width	20 sec
Integration Delay	0.00 min	Area Reject	0
Do Not Update Retention Time		Retention Time Offset	0.00 sec
Relative Peak Window	1%	Absolute Peak Window	6 sec

Errors Reported From Integration/Quantitation:
 Integration method file was not found

GC Results:

Peak Name	Ret Time	Area	Amount
U1 KNOWN	8.727	507	-
a-BHC	11.474	13143	0.046 [^]
g-BHC	13.076	1296	0.005 [^]
b-BHC	13.463	22207	0.089 [^]
U1 KNOWN	14.573	2305	-
d-BHC	15.011	22678	0.088 [^]
U1 KNOWN	15.283	971	-
A-DRIN	15.876	28735	0.107 [^]
U1 KNOWN	16.134	961	-
U1 KNOWN	17.277	2064	-
U1 KNOWN	17.761	2427	-
U1 KNOWN	18.098	1044	-
U1 KNOWN	18.321	2100	-
H-PT EPOXIDE	18.591	2806	0.007 [^]
g-CHLORDANE	18.900	34627	0.170 [^]
a-CHLORDANE	19.572	30244	0.164 [^]
D-E	20.634	25804	0.077 [^]
U1 KNOWN	21.302	812	-
E1-DRIN	22.449	22874	0.077 [^]
D-D	22.888	30098	0.170 [^]

Peak Name	Ret Time	Area	Amount
E: DOSULFAN II	23.218	1374	0.005 [^]
J: KNOWN	23.516	1118	-
E: DRIN ALDEHYDE	24.534	878	0.003 [^]
E: DO SULFATE	25.042	59665	0.184 [^]
D: C	26.303	126510	0.533 [^]
M: THOXYCHLOR	28.494	3416	0.032 [^]
E: DRIN KETONE	29.204	63926	0.192 [^]

Seq 1
Inv B
(Ed)

^ This amount was computed using manually entered responses.

-DBC RT. Shift

$$\frac{26.284 - 26.303}{26.284} \times 100\% = 0.07\%$$

Seg 2 Lab A

Version: 860/V2.2
Node: VAX2

Printed: 2-May-1991 at 08:06:55
GC Project: DB-5

Page 1
User: WEBSTER

EPA 2

1 - May - 1991

14:58:21

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	6
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Node:

Acquired on node LACE01 system 6 for DB-5

Channel:

DB-5

Method:

DB-5 CAPILLARY COLUMN
INITIAL TEMP: 150 DEG
FINAL TEMP: 265 DEG
RAMP: 5 DEG/ MIN

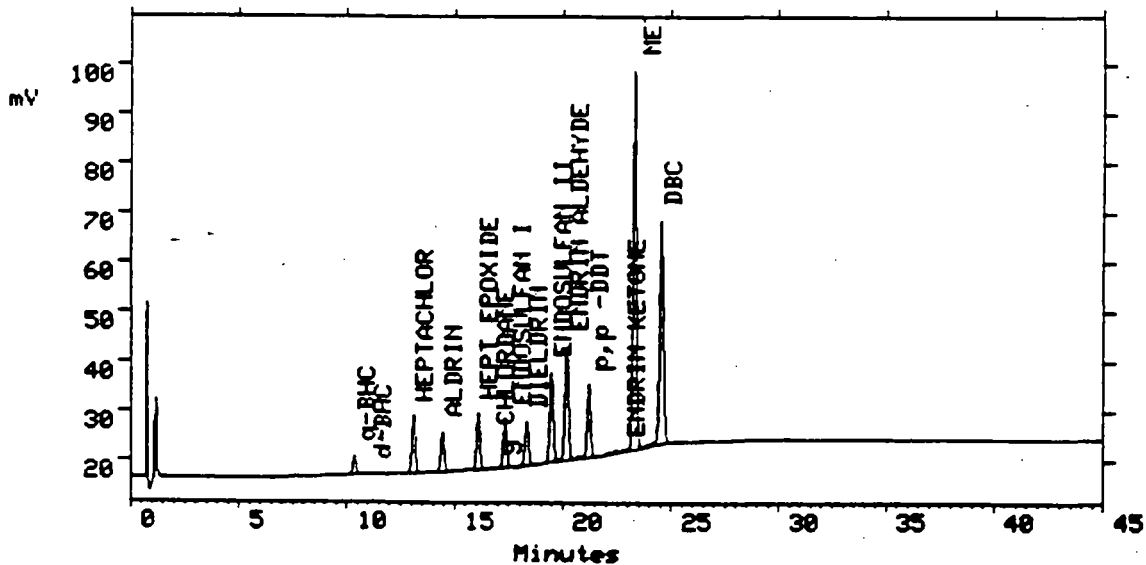
INITIAL TIME: 1 MIN
FINAL TIME: ~~11~~⁴⁵ MIN
RUN TIME: 35 MIN

Sample:

External vial 2

First Plot:

EPA2 Manual Injection 1 Ch 1

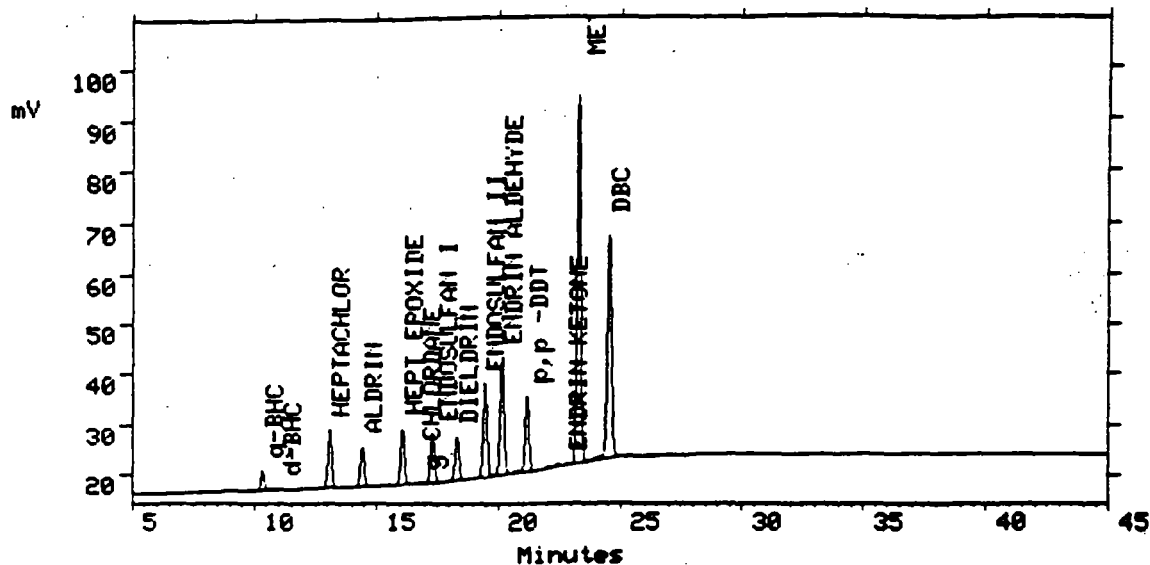


00143

Seq 2 Ind R

Second Plot:

EPA2 Manual Injection 1 Ch 1



Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Peak Detect Threshold 1 Peak Width 20 sec
 Integration Delay 5.00 min Area Reject 500
 Integration Events:

Time	Event	Parameter
18.00	Set baseline point	20
24.60	Set baseline point	20

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

GC Results:

Peak Name	Ret Time	Area	Amount
UNKNOWN	5.139	895	-
g-BHC	10.357	37118	0.050
d-BHC	11.121	2643	0.004
UNKNOWN	11.980	2190	-
HEPTACHLOR	13.103	130007	0.100
UNKNOWN	13.880	523	-
ALDRIN	14.439	95827	0.100
UNKNOWN	15.545	2636	-
HEPT EPOXIDE	16.099	131872	0.100
g-CHLORDANE	16.831	1592	0.002
ENDOSULFAN I	17.334	114772	0.100
DIELDRIN	18.331	105705	0.100
UNKNOWN	18.859	678	-
ENDOSULFAN II	19.467	211830	0.200
ENDRIN ALDEHYDE	20.167	274568	0.250
UNKNOWN	20.768	5295	-
p,p-DDT	21.192	164235	0.200
UNKNOWN	21.732	818	-
UNKNOWN	22.069	4821	-

00144

Peak Name	Ret Time	Area	Amount
UNKNOWN	22.424	7778	-
ENDRIN KETONE	22.848	4760	0.004
METHOXYCHLOR	23.299	805931	1.000
DBC	24.556	566048	0.500
UNKNOWN	25.636	6345	-
UNKNOWN	27.009	6388	-
UNKNOWN	28.061	3453	-
UNKNOWN	30.365	4970	-

Seq 2 In A

This amount was computed using manually entered responses.

DBC RT Shift = $\frac{24.558 - 24.672}{24.672} \times 100 = \frac{-0.114}{24.672} \times 100 = -0.477\%$
0.477%

Seq 2 Ind B

Version: 860/V2.2
Mode: VAX2

Printed: 2-May-1991 at 08:08:03
GC Project: DB-5

Page 1
User: WEBSTER

: P A 3

1 - M a y - 1 9 9 1

1 5 : 4 8 : 3 0

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	6
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Node:

Acquired on node LACE01 system 6 for DB-5

Channel:

DB-5

Method:

DB-5 CAPILLARY COLUMN
INITIAL TEMP: 150 DEG
FINAL TEMP: 265 DEG
RAMP: 5 DEG/MIN

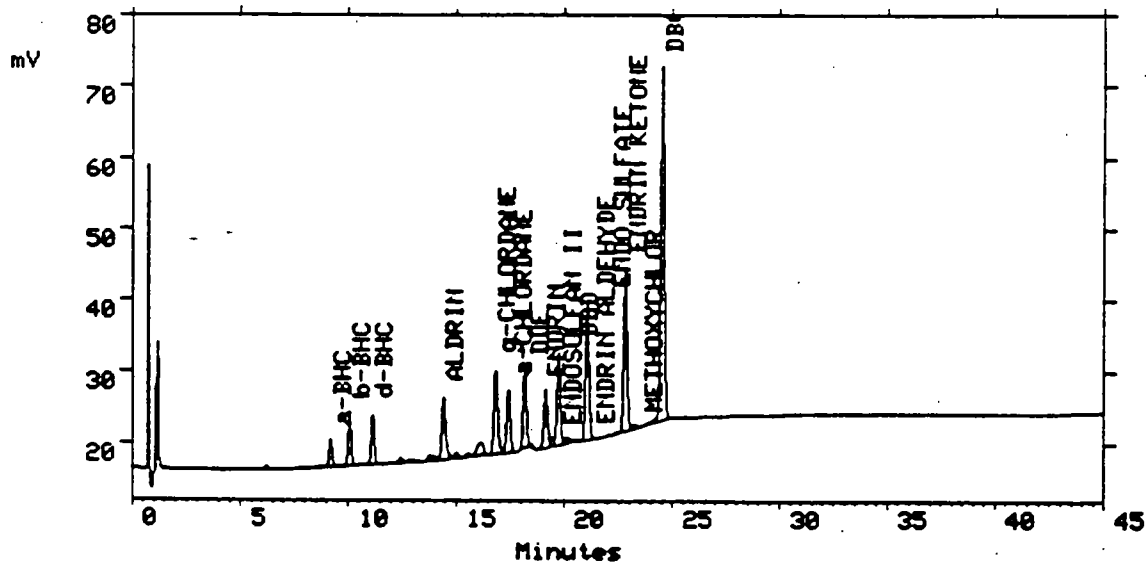
INITIAL TIME: 1 MIN
FINAL TIME: ~~11 MIN 21~~
RUN TIME: ~~35 MIN 45~~

Sample:

External vial 3

First Plot:

EPA3 Manual Injection 1 Ch 1

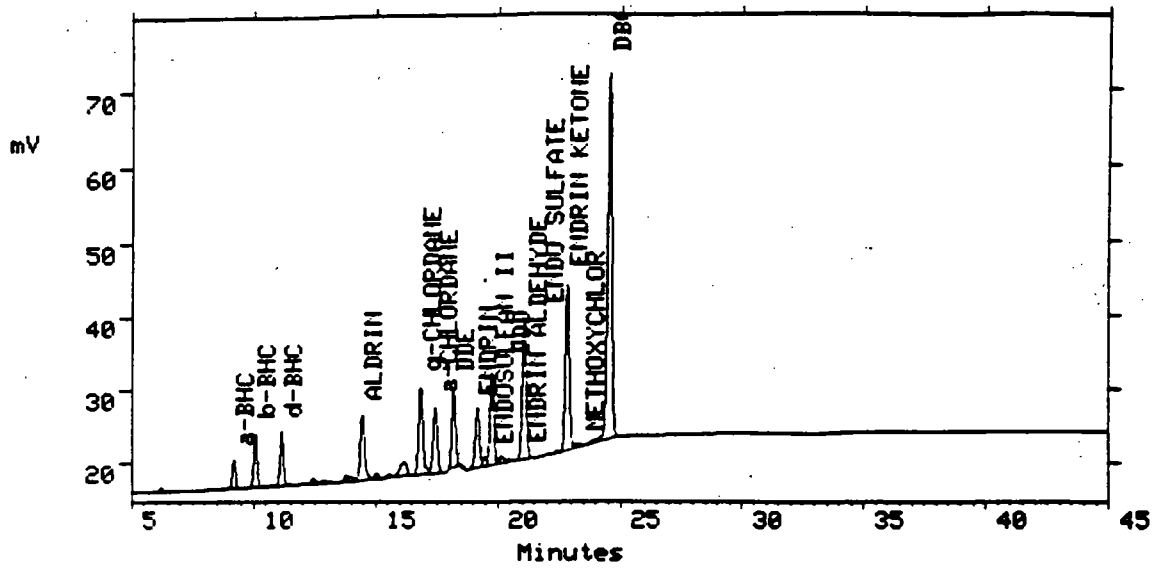


00146

Second Plot:

Seq 2 5

EPA3 Manual Injection 1 Ch 1



Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Peak Detect Threshold 1 Peak Width 20 sec
 Integration Delay 5.00 min Area Reject 500
 Integration Events:

Time	Event	Parameter
18.00	Set baseline point	20
24.60	Set baseline point	20

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 3 sec

GC Results:

Peak Name	Ret Time	Area	Amount
UNKNOWN	5.100	537	-
UNKNOWN	5.277	504	-
UNKNOWN	6.217	5044	-
UNKNOWN	8.159	789	-
a-BHC	9.181	38204	0.050^
UNKNOWN	9.536	1127	-
b-BHC	10.064	72546	0.100^
UNKNOWN	10.737	3180	-
d-BHC	11.138	72523	0.100^
UNKNOWN	11.459	2411	-
UNKNOWN	12.436	9007	-
UNKNOWN	12.853	4172	-
UNKNOWN	13.049	4720	-
UNKNOWN	13.321	1028	-
UNKNOWN	13.782	9594	-
UNKNOWN	13.939	10824	-
LDRLN	14.442	114888	0.120^
UNKNOWN	15.029	9951	-
UNKNOWN	15.557	5733	-

Seq 2 B

Peak Name	Ret Time	Area	Amount
UNKNOWN	16.190	38307	-
j-CHLORDANE	16.837	149955	0.200 [^]
a-CHLORDANE	17.426	109604	0.200 [^]
DDE	18.183	119362	0.100 [^]
UNKNOWN	18.495	3198	-
ENDRIN	19.151	99728	0.100 [^]
ENDOSULFAN II	19.473	12626	0.012 [^]
DDD	19.753	144553	0.200 [^]
ENDRIN ALDEHYDE	20.162	13396	0.012 [^]
UNKNOWN	20.473	4728	-
UNKNOWN	20.676	1239	-
ENDO SULFATE	21.068	224808	0.200 [^]
UNKNOWN	22.411	1544	-
ENDRIN KETONE	22.833	254324	0.200 [^]
METHOXYCHLOR	23.275	6988	0.009 [^]
DBC	24.549	612976	0.541 [^]
UNKNOWN	25.636	2504	-
UNKNOWN	30.398	959	-

This amount was computed using manually entered responses.

$$\text{DBC AT Shift} = \frac{24.549 - 24.672}{24.672} \times 100 = \frac{-0.123}{24.672} \times 100 = -0.50\%$$

Page 2
Page 1
User: WEBSTER

Version: 860/V2.2
Node: VAX2

Printed: 2-May-1991 at 08:27:43
GC Project: DB-5

Page 1
User: WEBSTER

EPA 4

1 - M a y - 1 9 9 1

1 6 : 3 7 : 5 6

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	6
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Node:
Acquired on node LACE01 system 6 for DB-5

Channel:
DB-5

Method:

DB-5 CAPILLARY COLUMN
INITIAL TEMP: 150 DEG
FINAL TEMP: 265 DEG
RAMP: 5 DEG/ MIN

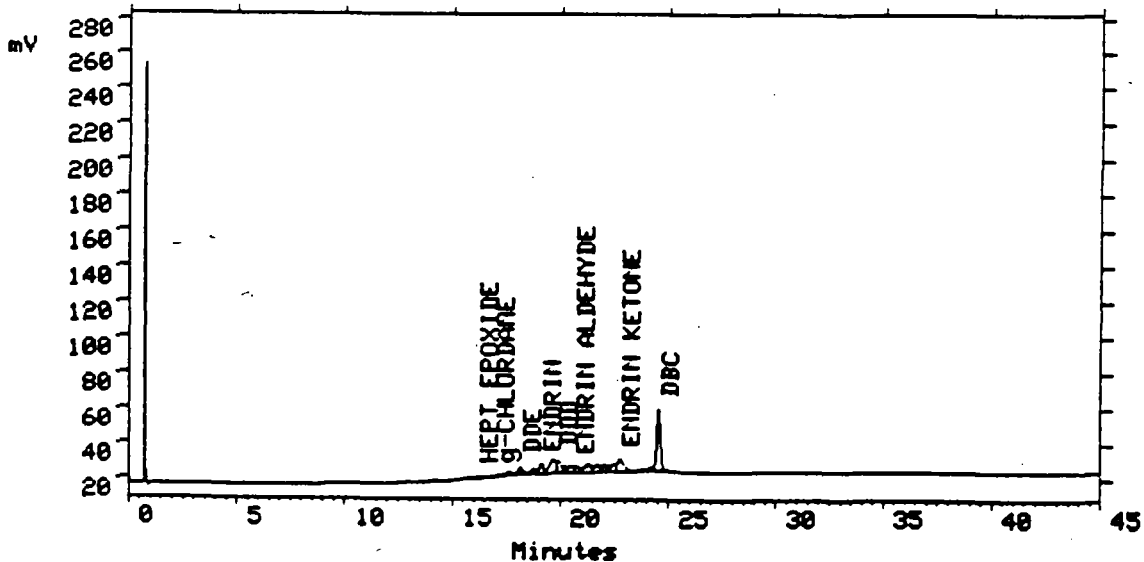
INITIAL TIME: 1 MIN
FINAL TIME: ~~11 MIN~~ 21 min
RUN TIME: ~~35 MIN~~ 45 min

Sample:

External vial 4

First Plot:

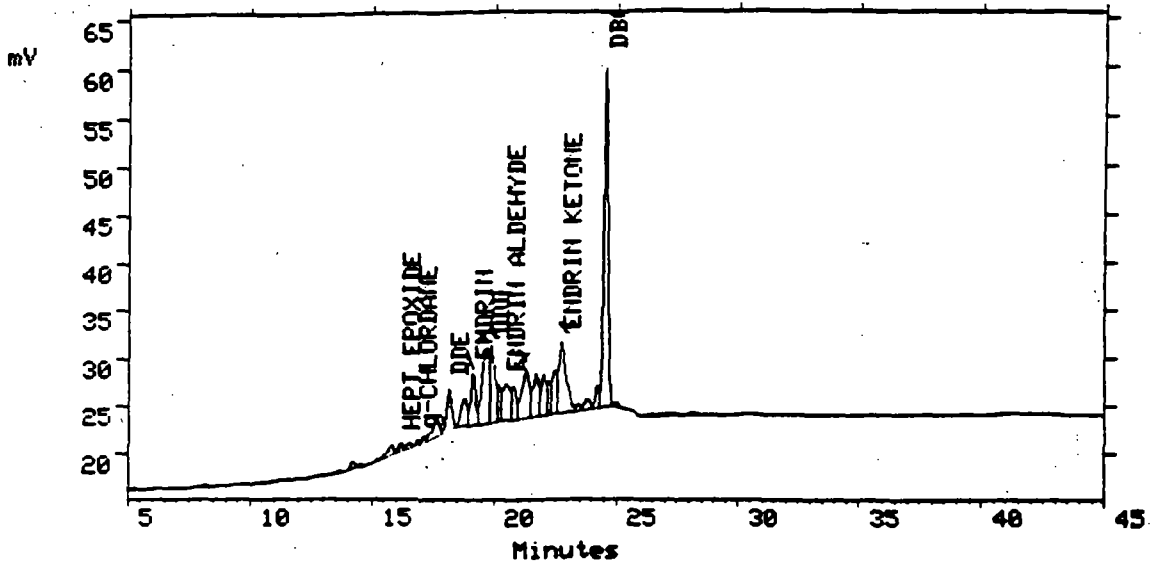
EPA4 Manual Injection 1 Ch 1



Second Plot:

Fig 2 T...

EPA4 Manual Injection 1 Ch 1



Conditions:

Sample amount Internal standard amt
Scale factor Mode Analysis
Keyboards of Remote Devices Unlocked

Peak Detect Threshold 1 Peak Width 20 sec
Integration Delay 5.00 min Area Reject 500
Integration Events:

Time	Event	Parameter
18.00	Set baseline point	20
24.60	Set baseline point	20

Do Not Update Retention Time Retention Time Offset 0.00 sec
Relative Peak Window 1% Absolute Peak Window 6 sec

GC Results:

Peak Name	Ret Time	Area	Amount
UNKNOWN	5.274	2591	-
UNKNOWN	6.443	714	-
UNKNOWN	7.054	619	-
UNKNOWN	8.137	2441	-
UNKNOWN	11.245	1498	-
UNKNOWN	12.708	1262	-
UNKNOWN	13.693	2680	-
UNKNOWN	14.212	9384	-
UNKNOWN	14.565	2357	-
UNKNOWN	15.810	21494	-
HEPT EPOXIDE	16.183	10076	0.008
UNKNOWN	16.489	8091	-
g-CHLORDANE	16.851	4518	0.006
UNKNOWN	17.127	7849	-
UNKNOWN	17.627	42310	-
DDE	18.156	63576	0.053
UNKNOWN	18.772	53320	-
ENDRIN	19.124	76856x	0.077
DDD	19.680	170825x	0.236

Seq 2 Tex

Peak Name	Ret Time	Area	Amount
UNKNOWN	19.926	94418	-
ENDRIN ALDEHYDE	20.124	39677	0.036
UNKNOWN	20.489	85592	-
UNKNOWN	20.779	48504	-
UNKNOWN	21.304	115354	-
UNKNOWN	21.716	78389	-
UNKNOWN	22.010	57744	-
UNKNOWN	22.217	33623	-
UNKNOWN	22.498	66126	-
ENDRIN KETONE	22.751	159919	0.126
UNKNOWN	23.440	9256	-
UNKNOWN	23.778	18850	-
UNKNOWN	24.202	26443	-
DBC	24.547	436770	0.386
UNKNOWN	25.015	6377	-
UNKNOWN	26.474	2960	-
UNKNOWN	26.844	4281	-
UNKNOWN	27.194	2839	-
UNKNOWN	27.469	2523	-
UNKNOWN	28.142	6936	-

This amount was computed using manually entered responses.

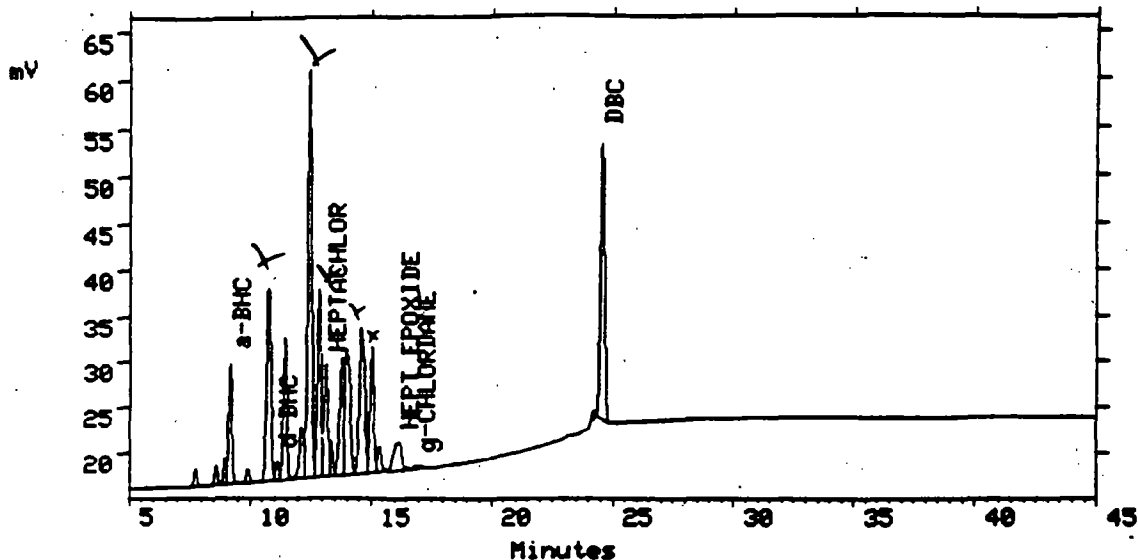
$$DBC \text{ RT Shift} = \frac{24.547 - 24.672}{24.672} \times 100 = \frac{0.0517}{0.517} \%$$

$$RF = \frac{617000}{4.0 \text{ mg/ml}} = 154000 \text{ /mg/ml}$$

Second Plot:

Sag 2

EPA5 Manual Injection 1 Ch 1



Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Peak Detect Threshold 1 Peak Width 20 sec
 Integration Delay 5.00 min Area Reject 500
 Integration Events:

Time	Event	Parameter
18.00	Set baseline point	20
24.60	Set baseline point	20

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

GC Results:

Peak Name	Ret Time	Area	Amount
UNKNOWN	5.087	586	-
UNKNOWN	5.755	848	-
UNKNOWN	7.724	17223	-
UNKNOWN	8.573	18250	-
UNKNOWN	8.947	22194	-
a-BHC	9.162	126868	0.166
UNKNOWN	9.898	16242	-
UNKNOWN	10.737	273791x	-
d-BHC	11.109	21098	0.029
UNKNOWN	11.426	157905	-
UNKNOWN	12.114	68843	-
UNKNOWN	12.437	508182x	-
UNKNOWN	12.830	222143x	-
HEPTACHLOR	13.112	134221	0.103
UNKNOWN	13.304	29931	-
UNKNOWN	13.771	144201	-
UNKNOWN	13.951	224540	-
UNKNOWN	14.579	249612x	-
UNKNOWN	15.024	159620x	-

$$RF = \frac{1414000}{4.0 \mu\text{g/lal}} = 354000 \quad //$$

Det limit:

$$\frac{5 \mu\text{g/lal} / 500 / 10 \text{nl}}{354000} = \frac{0.01 \text{ng}}{0.031 \text{ng}} = 2.28$$

DBC RT Shift:

$$\frac{24.672 - 24.579}{24.672} \times 100 = 0.05 \text{ to } 0.50$$

Peak Name	Ret Time	Area	Amount
UNKNOWN	15.342	32928	-
HEPT EPOXIDE	16.182	77257	0.059 [^]
UNKNOWN	16.472	2343	-
g-CHLORDANE	16.855	4601	0.006 [^]
UNKNOWN	17.068	3197	-
UNKNOWN	24.203	7800	-
DBC	24.549	357483	0.316 [^]
UNKNOWN	28.614	13277	-

Seq 2 *13.10.16*

[^] This amount was computed using manually entered responses.

509 2 30 1231

2.54 μ g/l
Page 4

Version: 860/V2.2
Node: VAX2

Printed: 2-May-1991 at 08:45:06
GC Project: DB-5

User: WEBSTER

EPA 6

1 - May - 1991

18:16:48

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	6
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Node:

Acquired on node LACE01 system 6 for DB-5

Channel:

DB-5

Method:

DB-5 CAPILLARY COLUMN
INITIAL TEMP: 150 DEG
FINAL TEMP: 265 DEG
RAMP: 5 DEG/ MIN

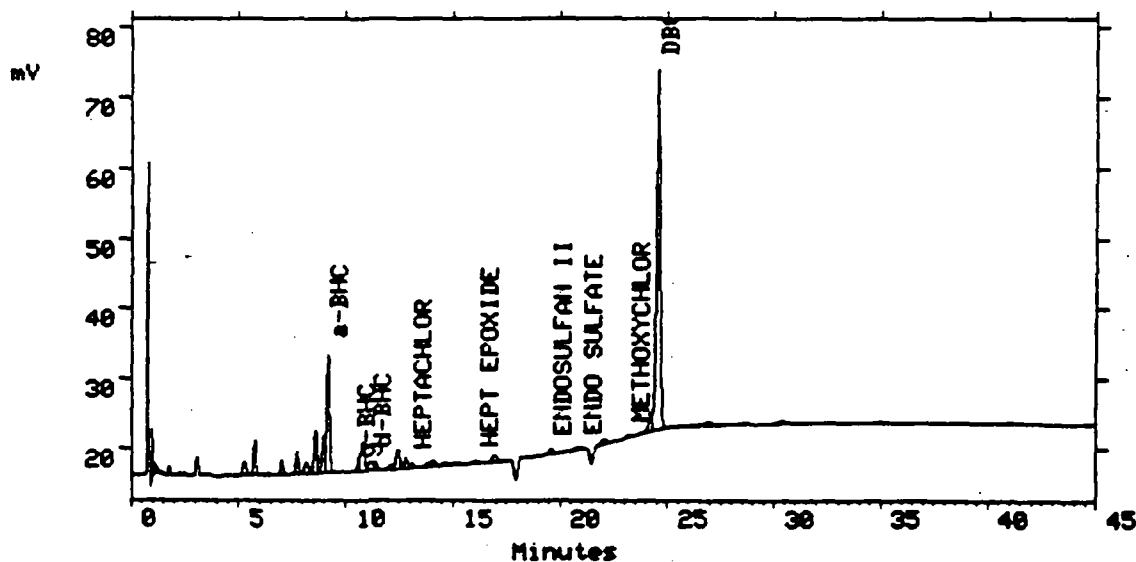
INITIAL TIME: 1 MIN
FINAL TIME: ~~11 MIN~~ 21 min
RUN TIME: ~~35 MIN~~ 45 min

Sample:

External vial 6

First Plot:

EPA6 Manual Injection 1 Ch 1

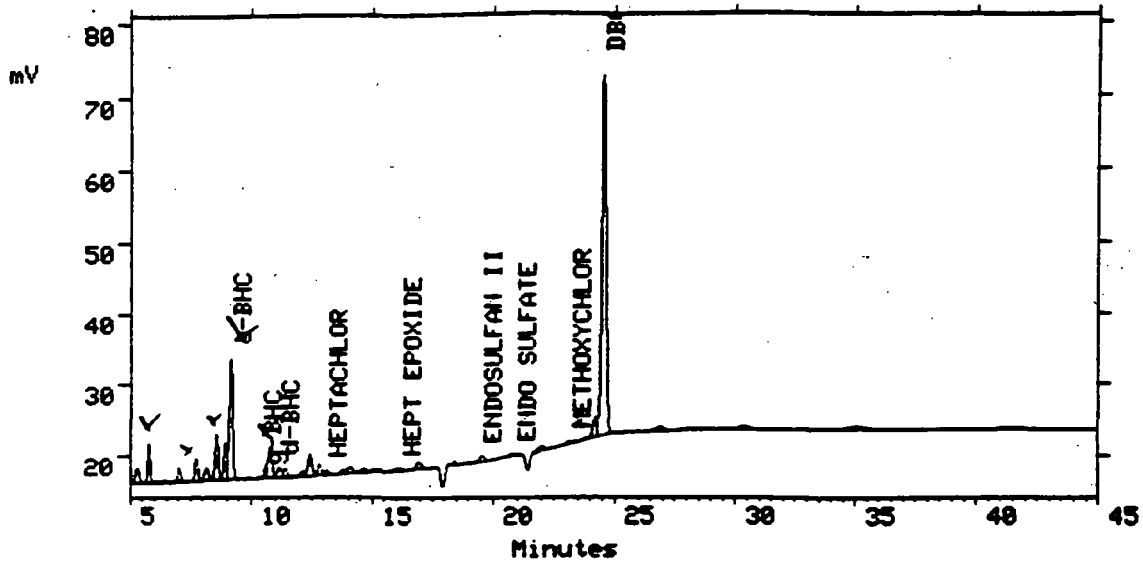


00155

Seq 2 Ar 1221

Second Plot:

EPA6 Manual Injection 1 Ch 1



Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Manually integrated peaks have integration types with 1 or more '*'s.

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

Errors Reported From Integration/Quantitation:
 Integration method file was not found

GC Results:

Peak Name	Ret Time	Area	Amount
UNKNOWN	5.274	25056	-
UNKNOWN	5.754	41569x	-
UNKNOWN	6.014	1664	-
UNKNOWN	6.181	1657	-
UNKNOWN	6.430	3220	-
UNKNOWN	7.022	17406	-
UNKNOWN	7.724	29353x	-
UNKNOWN	8.152	22235	-
UNKNOWN	8.575	59016x	-
UNKNOWN	8.945	44068	-
a-BHC	9.161	166130x	0.217*
UNKNOWN	9.525	1246	-
UNKNOWN	9.895	1581	-
g-BHC	10.425	533	0.001*
UNKNOWN	10.642	13316	-
UNKNOWN	10.790	53426x	-
d-BHC	11.161	18801	0.026*
UNKNOWN	11.418	12664	-
UNKNOWN	12.175	8964	-
UNKNOWN	12.432	36726	-
UNKNOWN	12.828	17475	-

$$RF = \frac{307800}{2.5 \mu\text{g/ml}} = 121000 \mu\text{g/l}$$

Ret Limit:
 $\frac{5 \mu\text{g/ml} / 100 / 10 \mu\text{g}}{121000} = 6.65$

DBP RT Shift:
 $\frac{24.677 - 24.552}{24.672} \times 100 = 0.46$

Seg 2 Ar 1231

Peak Name	Ret Time	Area	Amount
HEPTACHLOR	13.108	8873	0.007^
UNKNOWN	13.920	7645	-
UNKNOWN	14.103	13903	-
UNKNOWN	14.673	8114	-
UNKNOWN	15.032	3598	-
UNKNOWN	15.293	4881	-
HEPT EPOXIDE	16.187	9242	0.007^
UNKNOWN	16.949	16011	-
UNKNOWN	18.515	713	-
ENDOSULFAN II	19.566	11839	0.011^
UNKNOWN	20.764	4279	-
ENDO SULFATE	20.972	1901	0.002^
UNKNOWN	22.015	13946	-
METHOXYCHLOR	23.204	7596	0.009^
UNKNOWN	24.217	34755	-
DBC	24.552	632378	0.559^
UNKNOWN	25.623	2565	-
UNKNOWN	26.930	16400	-
UNKNOWN	28.081	2937	-
UNKNOWN	28.642	1372	-
UNKNOWN	30.398	10900	-
UNKNOWN	35.066	11512	-
UNKNOWN	41.574	9256	-

* This amount was computed using manually entered responses.

Version: 860/V2.2
Node: VAX2

Printed: 2-May-1991 at 08:28:59
GC Project: DB-5

Page 1
User: WEBSTER

EPA 7

1 - May - 1991

19:06:19

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	6
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Node:

Acquired on node LACE01 system 6 for DB-5

Channel:

DB-5

Method:

DB-5 CAPILLARY COLUMN
INITIAL TEMP: 150 DEG
FINAL TEMP: 265 DEG
RAMP: 5 DEG/MIN

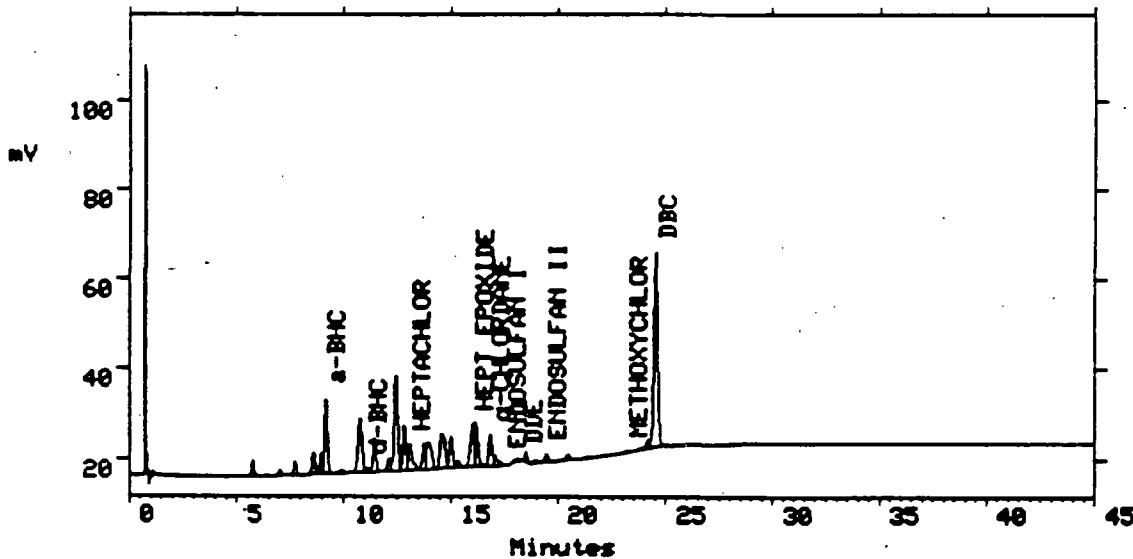
INITIAL TIME: 1 MIN
FINAL TIME: ~~11~~ MIN 21 min
RUN TIME: ~~35~~ MIN 45 min

Sample:

External vial 7

First Plot:

EPA7 Manual Injection 1 Ch 1

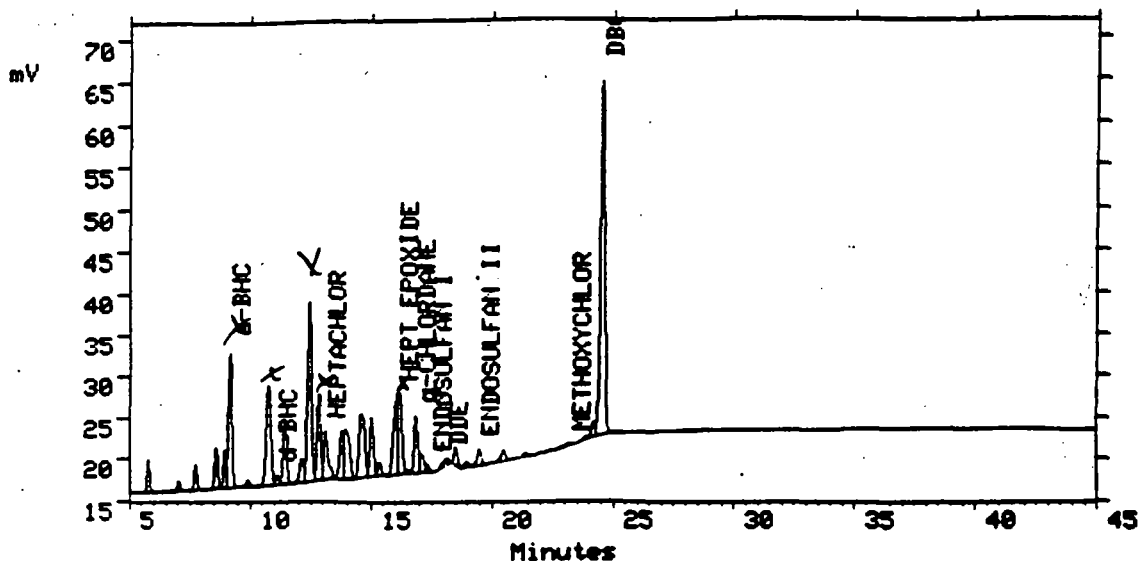


00153

Second Plot:

Seq 2 Ar 1732

EPA7 Manual Injection 1 Ch 1



Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Peak Detect Threshold 1 Peak Width 20 sec
 Integration Delay 5.00 min Area Reject 500
 Integration Events:

Time	Event	Parameter
18.00	Set baseline point	20
24.60	Set baseline point	20

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

GC Results:

Peak Name	Ret Time	Area	Amount
UNKNOWN	5.759	28613	-
UNKNOWN	6.432	821	-
UNKNOWN	7.027	10486	-
UNKNOWN	7.728	27132	-
UNKNOWN	8.580	45456	-
UNKNOWN	8.950	38703	-
a-BHC	9.166	162440	0.213
UNKNOWN	9.901	8031	-
UNKNOWN	10.749	162951	-
d-BHC	11.111	10843	0.015
UNKNOWN	11.429	79335	-
UNKNOWN	12.119	34012	-
UNKNOWN	12.440	251186	-
UNKNOWN	12.833	110093	-
HEPTACHLOR	13.115	74531	0.057
UNKNOWN	13.775	62990	-
UNKNOWN	13.956	99243	-
UNKNOWN	14.598	130575	-
UNKNOWN	15.027	78429	-

RF: $\frac{802000}{3.65 \mu\text{g/L}} = 220000 \text{ / } \mu\text{g/L}$
 det lim: $\frac{5 \text{ (mV)} / 10}{1.0 \text{ (mV)} / 0.05 \mu\text{g/L}} = 3.67$

DBP RT shift:
 $\frac{24.672 - 24.552}{24.677} \times 100 = 0.49$

Seq 2
Ar 1232

Peak Name	Ret Time	Area	Amount
UNKNOWN	15.348	14416	-
HEPT EPOXIDE	16.087	115706*	0.088^
UNKNOWN	16.169	109787	-
UNKNOWN	16.491	4094	-
g-CHLORDANE	16.854	78225	0.104^
UNKNOWN	17.086	24888	-
ENDOSULFAN I	17.300	9960	0.009^
DDE	18.128	13656	0.011^
UNKNOWN	18.500	22309	-
UNKNOWN	18.943	7939	-
ENDOSULFAN II	19.480	25955	0.025^
UNKNOWN	20.479	19128	-
UNKNOWN	21.388	4194	-
METHOXYCHLOR	23.234	3531	0.004^
UNKNOWN	23.910	4077	-
UNKNOWN	24.204	20901	-
DBC	24.552	525403	0.464^
UNKNOWN	25.063	951	-
UNKNOWN	25.656	1160	-
UNKNOWN	28.079	2042	-
UNKNOWN	28.658	1855	-

* This amount was computed using manually entered responses.

Seq 2
3.15.91
1242

Version: 860/V2.2
Node: VAX2

Printed: 2-May-1991 at 08:48:25
GC Project: DB-5

Page 1
User: WEBSTER

E P A 8

1 - M a y - 1 9 9 1

1 9 : 5 5 : 4 1

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	6
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Node:

Acquired on node LACE01 system 6 for DB-5

Channel:

DB-5

Method:

DB-5 CAPILLARY COLUMN
INITIAL TEMP: 150 DEG
FINAL TEMP: 265 DEG
RAMP: 5 DEG/ MIN

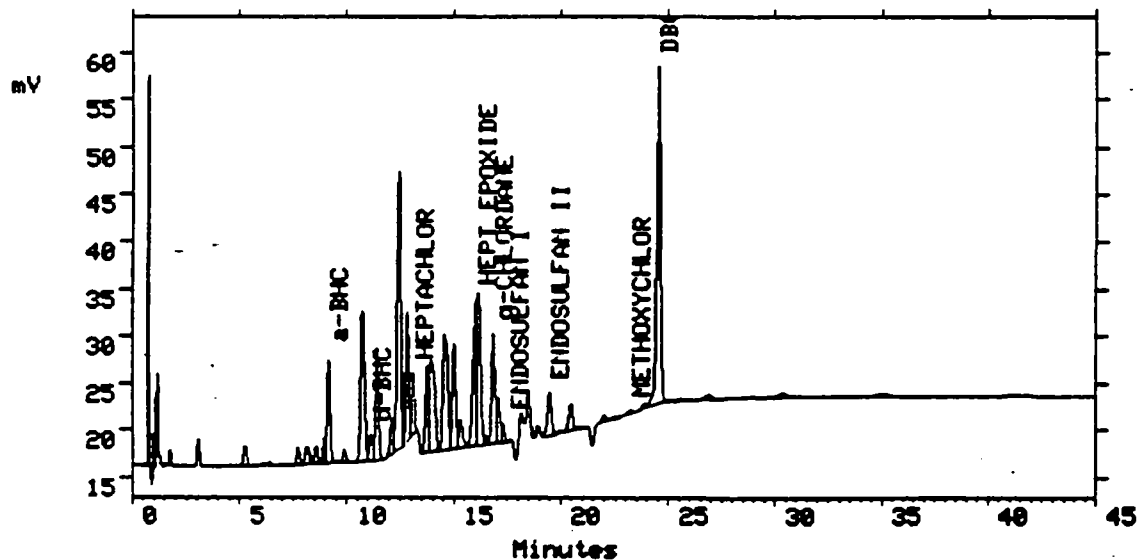
INITIAL TIME: 1 MIN
FINAL TIME: ~~11~~ MIN 21 min
RUN TIME: ~~35~~ MIN 45 min

Sample:

External vial 8

First Plot:

EPAS Manual Injection 1 Ch 1

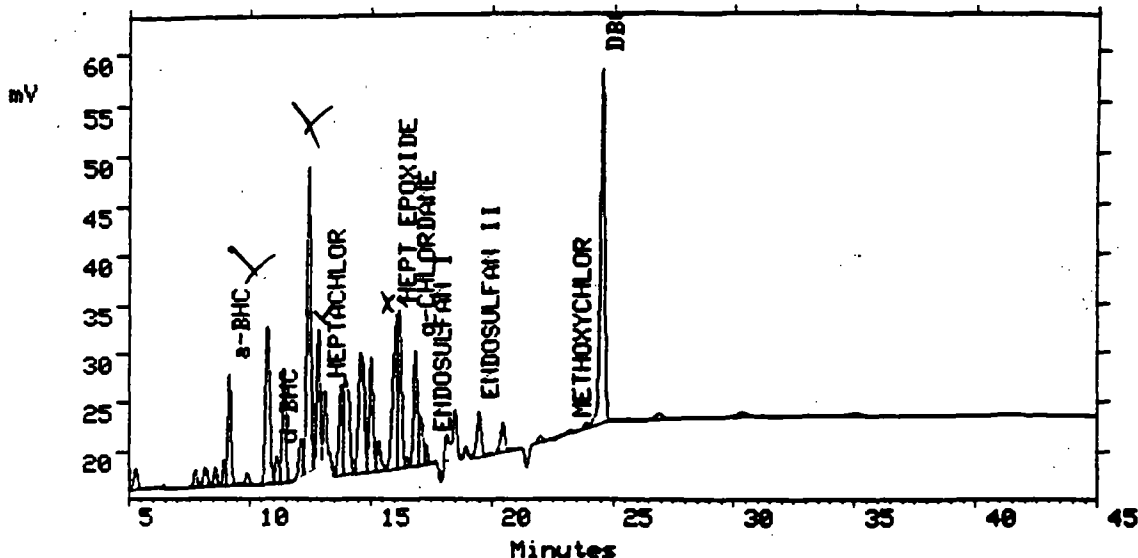


00161

Second Plot:

Seq 2 P. 1242

EPAS Manual Injection 1 Ch 1



Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Manually integrated peaks have integration types with 1 or more '*'s.

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

Errors Reported From Integration/Quantitation:
 Integration method file was not found

GC Results:

Peak Name	Ret Time	Area	Amount
UNKNOWN	5.273	25972	-
UNKNOWN	5.753	892	-
UNKNOWN	6.031	525	-
UNKNOWN	6.431	3195	-
UNKNOWN	6.783	1126	-
UNKNOWN	7.026	903	-
UNKNOWN	7.725	17325	-
UNKNOWN	8.152	24876	-
UNKNOWN	8.570	18077	-
UNKNOWN	8.948	20055	-
a-BHC	9.158	111275	0.146*
UNKNOWN	9.896	14641	-
UNKNOWN	10.736	208737	-
d-BHC	11.128	30233	0.042*
UNKNOWN	11.423	121472*	-
UNKNOWN	12.117	43405	-
UNKNOWN	12.435	348374*	-
UNKNOWN	12.829	133057*	-
HEPTACHLOR	13.110	57701	0.044*
UNKNOWN	13.771	98603	-
UNKNOWN	13.949	166328	-

RF: $\frac{977000}{3.15 \mu\text{g/ml}} = 310000 \mu\text{g/l}$

Det limit: $\frac{5 \mu\text{g/ml} / 500 / 10^6}{310000} = 2.60 \mu\text{g}$

DBP RT Shift: $\frac{24.672 - 24.545}{24.672} \times 100 = 0.51$

00162

Seq 2 R-1242

Peak Name	Ret Time	Area	Amount
UNKNOWN	14.586	205618	-
UNKNOWN	15.022	133741	-
UNKNOWN	15.339	37731	-
HEPT EPOXIDE	16.077	184458X	0.140^
UNKNOWN	16.169	191073Y	-
UNKNOWN	16.483	9941	-
g-CHLORDANE	16.851	140020	0.187^
UNKNOWN	17.070	49385	-
ENDOSULFAN I	17.295	18719	0.016^
ENDOSULFAN II	19.481	64469	0.061^
UNKNOWN	19.943	3202	-
UNKNOWN	20.472	38169	-
UNKNOWN	20.836	2419	-
UNKNOWN	22.007	9167	-
UNKNOWN	22.418	218	-
METHOXYCHLOR	23.238	677	0.001^
UNKNOWN	23.900	4337	-
DBC	24.545	453708	0.401^
UNKNOWN	25.040	1690	-
UNKNOWN	25.622	4331	-
UNKNOWN	26.922	13247	-
UNKNOWN	28.058	1891	-
UNKNOWN	30.388	11489	-
UNKNOWN	35.086	11663	-

This amount was computed using manually entered responses.

Seg 2 Air 1342

Version: 860/V2.2 Printed: 2-May-1991 at 08:52:36
Node: VAX2 GC Project: DB-5

Page 1
User: WEBSTER

EPA 9

1 - May - 1991

20:45:02

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	6
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Node:

Acquired on node LACE01 system 6 for DB-5

Channel:

DB-5

Method:

DB-5 CAPILLARY COLUMN
INITIAL TEMP: 150 DEG
FINAL TEMP: 265 DEG
RAMP: 5 DEG/MIN

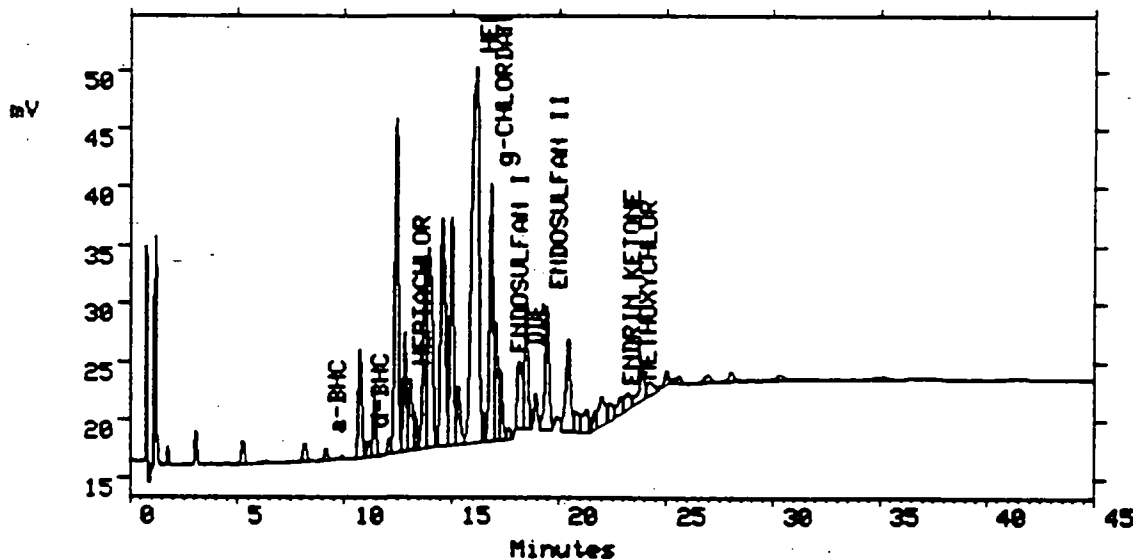
INITIAL TIME: 1 MIN
FINAL TIME: ~~11~~ MIN ^{21 min}
RUN TIME: ~~35~~ MIN ^{45 min}

Sample:

External vial 9

First Plot:

EPA9 Manual Injection 1 Ch 1

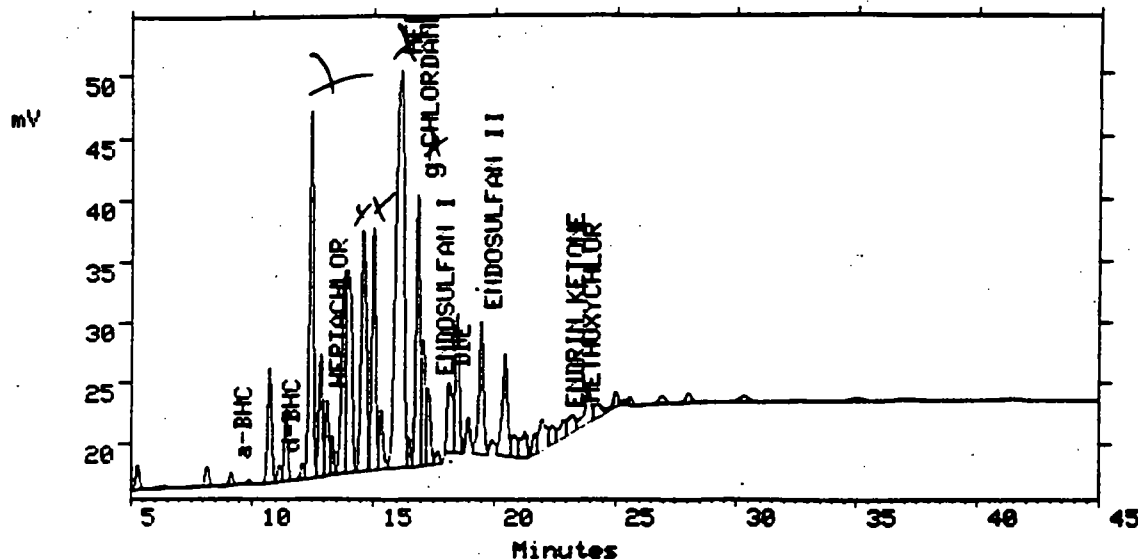


00164

Second Plot:

Sig 2 Ar 1248

EPA9 Manual Injection 1 Ch 1



Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Manually integrated peaks have integration types with 1 or more '*'s.

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

Errors Reported From Integration/Quantitation:
 Integration method file was not found

GC Results:

Peak Name	Ret Time	Area	Amount
UNKNOWN	5.271	24718	-
UNKNOWN	6.199	2836	-
UNKNOWN	6.426	2722	-
UNKNOWN	7.368	802	-
UNKNOWN	8.148	20685	-
a-BHC	9.150	11168	0.015*
UNKNOWN	9.890	3632	-
UNKNOWN	10.720	110586	-
d-BHC	11.146	15211	0.021*
UNKNOWN	11.416	64727	-
UNKNOWN	12.095	13243	-
UNKNOWN	12.430	343389*	-
UNKNOWN	12.826	110329	-
HEPTACHLOR	13.101	68094	0.052*
UNKNOWN	13.302	28425	-
UNKNOWN	13.763	181437	-
UNKNOWN	13.955	271807	-
UNKNOWN	14.567	299000*	-
UNKNOWN	15.014	235749*	-
UNKNOWN	15.333	59883	-
HEPT EPOXIDE	16.167	756692*	0.574*

$RF = \frac{1897000}{4.0 \mu g/he} = 474000 / \mu g$

Det line:

$\frac{5 / \mu g/he / 1000 / 1000}{1.471000} = 1.70 \mu g$

DBC RT Shift:

$\frac{24.672}{5}$

lost in Ar 1248

rather

No DBC address

Ar 1242

Peak Name	Ret Time	Area	Amount
UNKNOWN	16.458	22203	-
g-CHLORDANE	16.846	261617	0.349
UNKNOWN	17.073	110289	-
ENDOSULFAN I	17.293	65024	0.057
UNKNOWN	17.701	13147	-
DDE	18.134	88181	0.074
UNKNOWN	18.488	133367	-
ENDOSULFAN II	19.471	148360	0.140
UNKNOWN	20.467	128875	-
UNKNOWN	20.817	30948	-
UNKNOWN	21.296	38983	-
UNKNOWN	21.704	20337	-
UNKNOWN	22.003	56826	-
UNKNOWN	22.396	24933	-
ENDRIN KETONE	22.881	28134	0.022
METHOXYCHLOR	23.245	31402	0.039
UNKNOWN	23.886	57519	-
UNKNOWN	24.259	26044	-
UNKNOWN	25.031	20349	-
UNKNOWN	25.620	12002	-
UNKNOWN	26.264	858	-
UNKNOWN	26.959	13347	-
UNKNOWN	28.047	14020	-
UNKNOWN	30.349	12264	-
UNKNOWN	35.032	8858	-
UNKNOWN	41.452	3038	-

This amount was computed using manually entered responses.

Version: 860/V2.2
Node: VAX2

Printed: 2-May-1991 at 08:56:38
GC Project: DB-5

Page 1
User: WEBSTER

EPA 10

1 - May - 1991

21:34:19

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	6
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Node:

Acquired on node LACE01 system 6 for DB-5

Channel:

DB-5

Method:

DB-5 CAPILLARY COLUMN
INITIAL TEMP: 150 DEG
FINAL TEMP: 265 DEG
RAMP: 5 DEG/ MIN

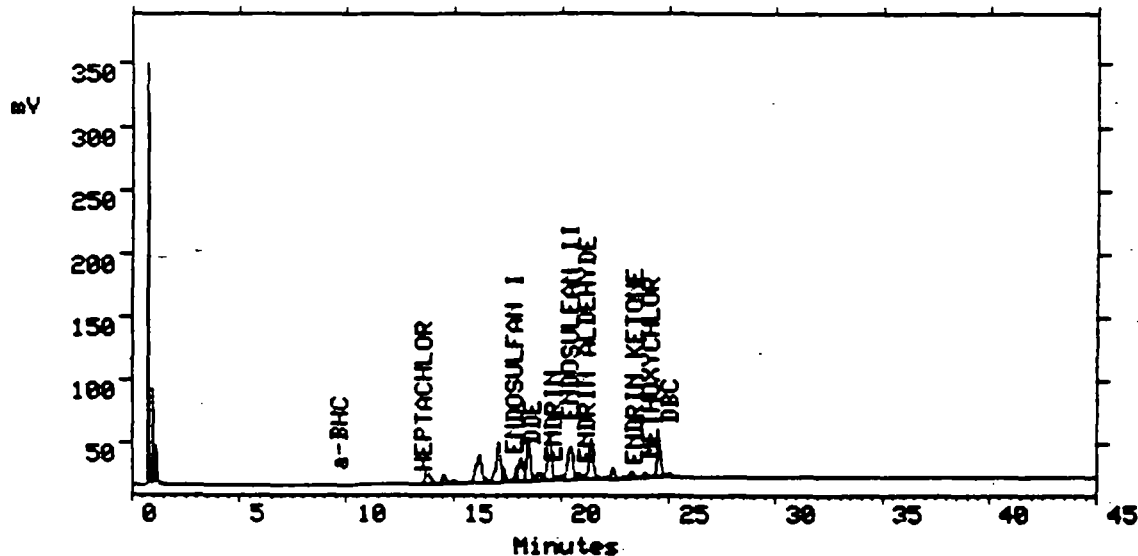
INITIAL TIME: 1 MIN
FINAL TIME: ~~11~~ MIN 21 min
RUN TIME: ~~35~~ MIN 45 min

Sample:

External vial 10

First Plot:

EPA10 Manual Injection 1 Ch 1

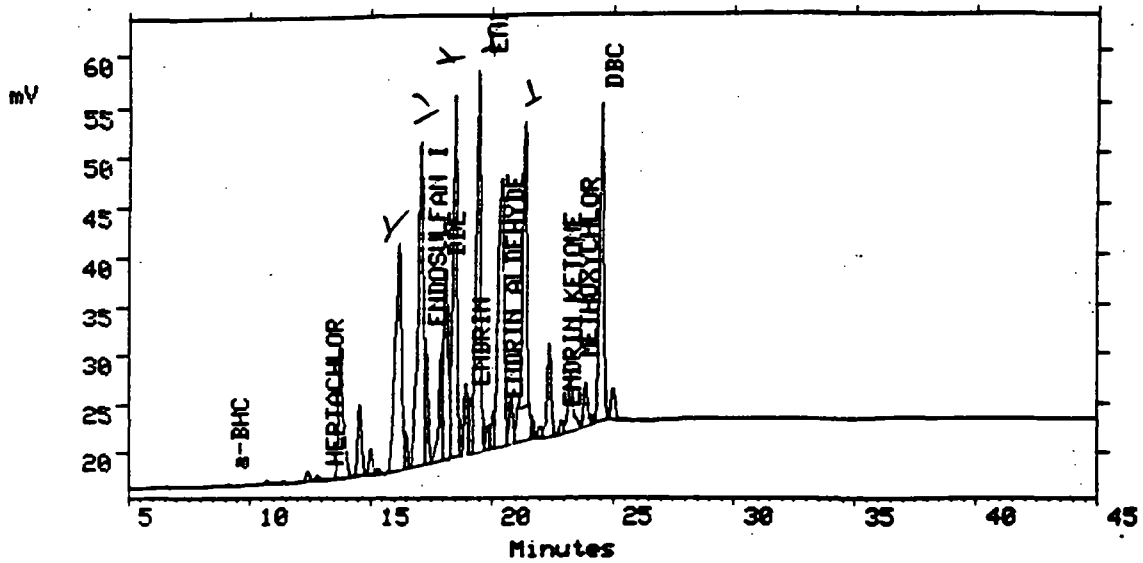


00167

Second Plot:

Sep 2 R: 1254

EPA10 Manual Injection 1 Ch 1



Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Manually integrated peaks have integration types with 1 or more '**'s.

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

Errors Reported From Integration/Quantitation:
 Integration method file was not found

GC Results:

Peak Name	Ret Time	Area	Amount
UNKNOWN	5.088	638	-
a-BHC	9.151	2296	0.003 [^]
UNKNOWN	10.724	5507	-
UNKNOWN	11.414	2904	-
UNKNOWN	12.417	12178	-
UNKNOWN	12.829	6106	-
HEPTACHLOR	13.099	2089	0.002 [^]
UNKNOWN	13.309	882	-
UNKNOWN	13.753	199561	-
UNKNOWN	14.547	84253	-
UNKNOWN	15.014	29551	-
UNKNOWN	15.327	5626	-
UNKNOWN	16.207	428600 ^Y	-
UNKNOWN	16.455	28979	-
UNKNOWN	17.079	490039 ^X	-
ENDOSULFAN I	17.279	104061	0.091 [^]
UNKNOWN	17.937	102066	-
DDE	18.110	257618	0.216 [^]
UNKNOWN	18.483	443295 ^X	-
UNKNOWN	18.945	80808	-
ENDRIN	19.136	48734	0.049 [^]

$RF = \frac{2315004}{40 \text{ mg/ml}} = 579000/\text{ml}$

Det limit:

$0.002 \frac{5 \text{ mg/ml} / 100}{157000} / 0.051 \text{ kg} = 1.39$

OAS RT shift:

$\frac{24.672 - 24.535}{24.672} \times 100 = 0.56$

00163

Seg 2 Ac 1254

Peak Name	Ret Time	Area	Amount
ENDOSULFAN II	19.456	501124 Y	0.473^
UNKNOWN	19.863	27564	-
ENDRIN ALDEHYDE	20.099	34364	0.031^
UNKNOWN	20.413	459357	-
UNKNOWN	20.806	55619	-
UNKNOWN	21.367	451880 Y	-
UNKNOWN	21.660	17257	-
UNKNOWN	21.995	12243	-
UNKNOWN	22.393	114340	-
ENDRIN KETONE	22.878	16872	0.013^
METHOXYCHLOR	23.263	93623	0.116^
UNKNOWN	23.885	51406	-
UNKNOWN	24.177	8299	-
DBC	24.535	384971	0.340^
UNKNOWN	25.026	38538	-
UNKNOWN	25.609	1619	-
UNKNOWN	26.265	2219	-
UNKNOWN	27.015	1778	-
UNKNOWN	28.046	4383	-
UNKNOWN	28.639	2010	-

This amount was computed using manually entered responses.

ersion: 860/V2.2
ode: VAX2

Printed: 2-May-1991 at 08:30:42
GC Project: DB-5

Page 1
User: WEBSTER

EPA 11

1 - May - 1991

22:23:43

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	6
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Node:

Acquired on node LACE01 system 6 for DB-5

Channel:

DB-5

Method:

DB-5 CAPILLARY COLUMN
INITIAL TEMP: 150 DEG
FINAL TEMP: 265 DEG
RAMP: 5 DEG/ MIN

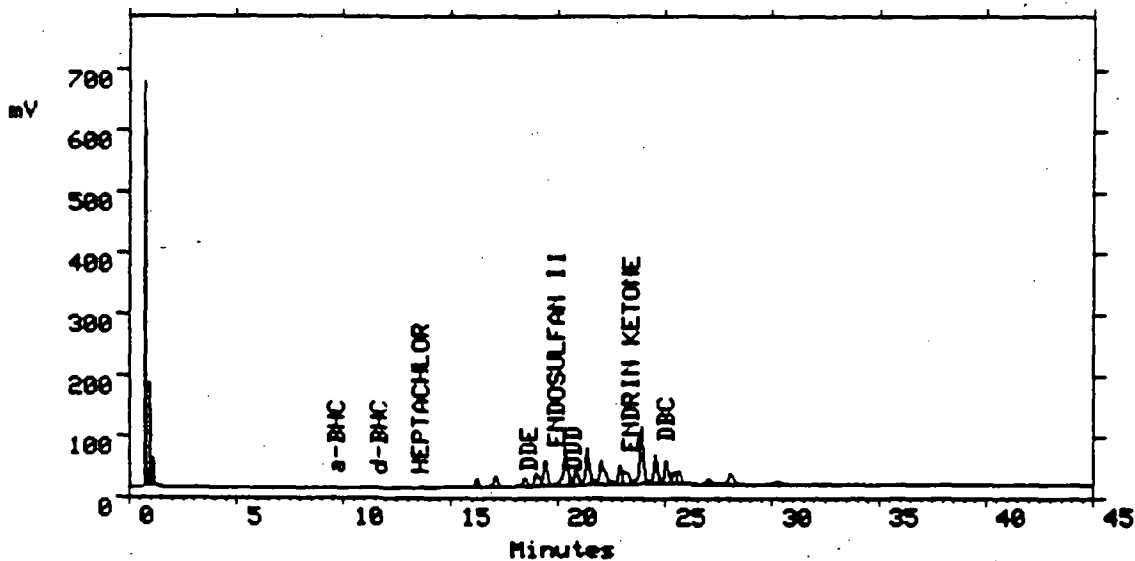
INITIAL TIME: 1 MIN
FINAL TIME: 112 MIN
RUN TIME: 35 MIN
45

Sample:

External vial 11

First Plot:

EPA11 Manual Injection 1 Ch 1

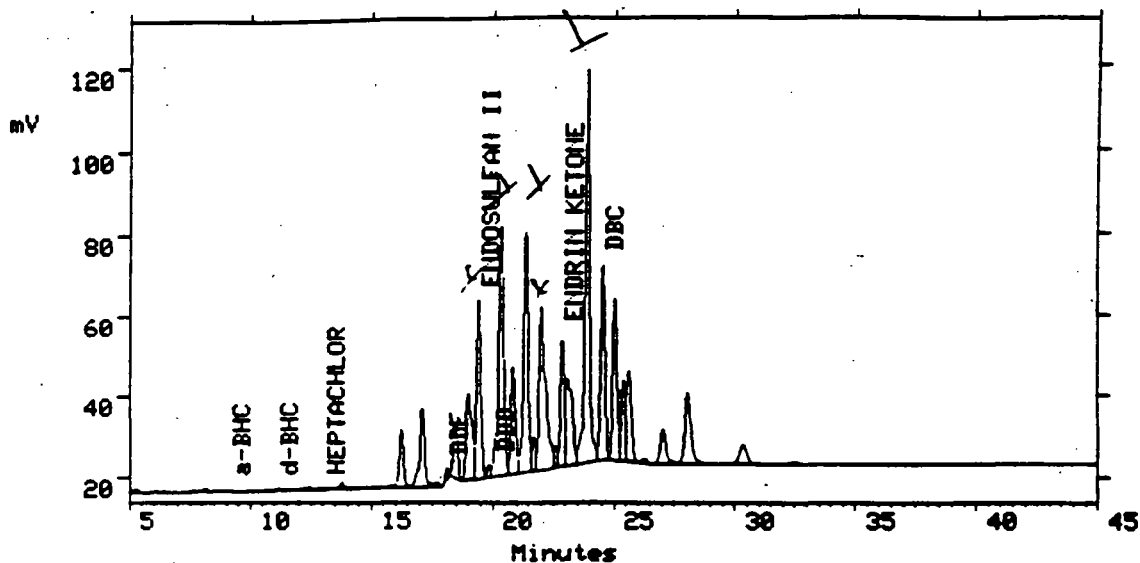


00170

Second Plot:

Seg 2 Nr 1260

EPA11 Manual Injection 1 Ch 1



Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Peak Detect Threshold 1 Peak Width 20 sec
 Integration Delay 5.00 min Area Reject 500
 Integration Events:

Time	Event	Parameter
18.00	Set baseline point	20
24.60	Set baseline point	20

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

GC Results:

Peak Name	Ret Time	Area	Amount
UNKNOWN	5.272	12082	-
UNKNOWN	5.990	1210	-
UNKNOWN	6.431	2331	-
UNKNOWN	7.010	686	-
UNKNOWN	7.646	2987	-
UNKNOWN	8.144	8430	-
UNKNOWN	8.517	915	-
a-BHC	9.147	5754	0.008
UNKNOWN	10.733	4023	-
d-BHC	11.173	4947	0.007
UNKNOWN	11.414	2241	-
UNKNOWN	12.423	12435	-
UNKNOWN	12.839	3985	-
HEPTACHLOR	13.104	4076	0.003
UNKNOWN	13.761	19320	-
UNKNOWN	14.088	4242	-
UNKNOWN	14.570	4848	-
UNKNOWN	15.042	1845	-
UNKNOWN	15.282	2960	-

00171

Seq 2 Ar 1260

Peak Name	Ret Time	Area	Amount
UNKNOWN	16.223	173850	-
UNKNOWN	17.096	284982	-
UNKNOWN	17.702	12856	-
DDE	18.118	21133	0.018
UNKNOWN	18.455	177086	-
UNKNOWN	18.982	360894	-
ENDOSULFAN II	19.418	541454x	0.511
DDD	19.842	30609	0.042
UNKNOWN	20.343	932462x	-
UNKNOWN	20.836	353657	-
UNKNOWN	21.370	795520x	-
UNKNOWN	21.699	86391	-
UNKNOWN	22.010	754308x	-
UNKNOWN	22.596	48465	-
ENDRIN KETONE	22.883	390661	0.307
UNKNOWN	23.092	388594	-
UNKNOWN	23.895	1253814x	-
DBC	24.542	595385	0.526
UNKNOWN	25.041	512146	-
UNKNOWN	25.409	243574	-
UNKNOWN	25.632	295357	-
UNKNOWN	26.268	15336	-
UNKNOWN	27.029	146576	-
UNKNOWN	28.060	310057	-
UNKNOWN	30.336	97942	-
UNKNOWN	32.518	12138	-
UNKNOWN	35.077	2329	-

This amount was computed using manually entered responses.

$$RF : \frac{4273000}{4.0 \text{ ng/l}} = 1068000 \text{ /ng lshl}$$

$$\text{Det lim.} : \frac{5 \text{ (M)} / 500 / 1000}{1100000} / 0.031 \text{ kg} = 0.755 \text{ } \mu\text{g/lh}_2$$

$$\text{DBL RT Shift: } \frac{24.672 - 24.542}{24.672} \times 100 = 0.53 \%$$

Version: 860/V2.2
Node: VAX2

Printed: 2-May-1991 at 08:31:10
GC Project: DB-5

Page 1
User: WEBSTER

EPA 12

1 - May - 1991

23:12:53

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	6
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Node:

Acquired on node LACE01 system 6 for DB-5

Channel:

DB-5

Method:

DB-5 CAPILLARY COLUMN
INITIAL TEMP: 150 DEG
FINAL TEMP: 265 DEG
RAMP: 5 DEG/ MIN

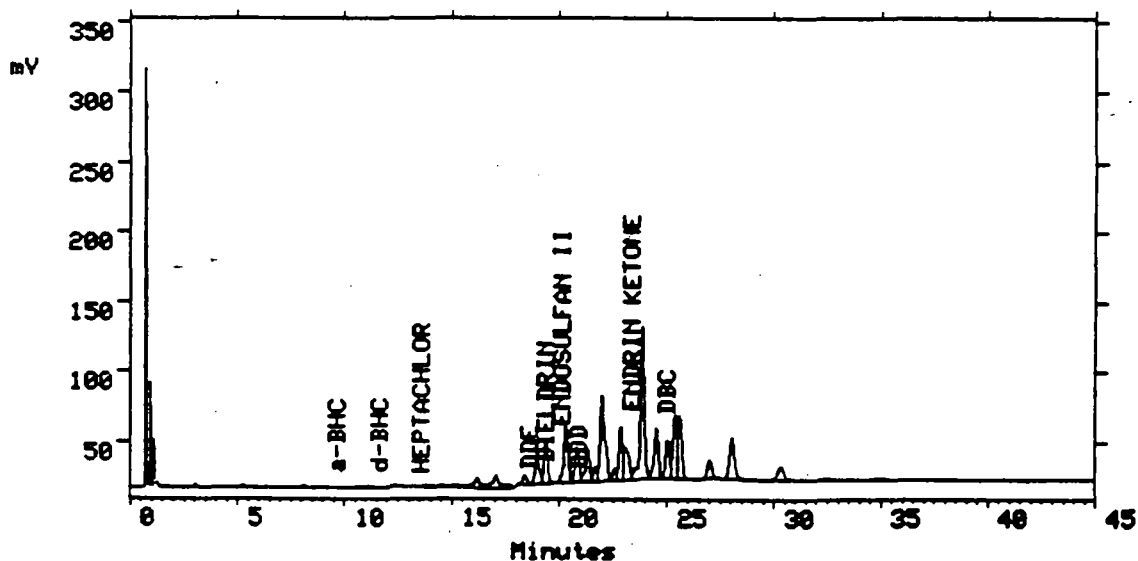
INITIAL TIME: 1 MIN
FINAL TIME: 11 MIN 21 min
RUN TIME: 35 MIN 45 min

Sample:

External vial 12

First Plot:

EPA12 Manual Injection 1 Ch 1

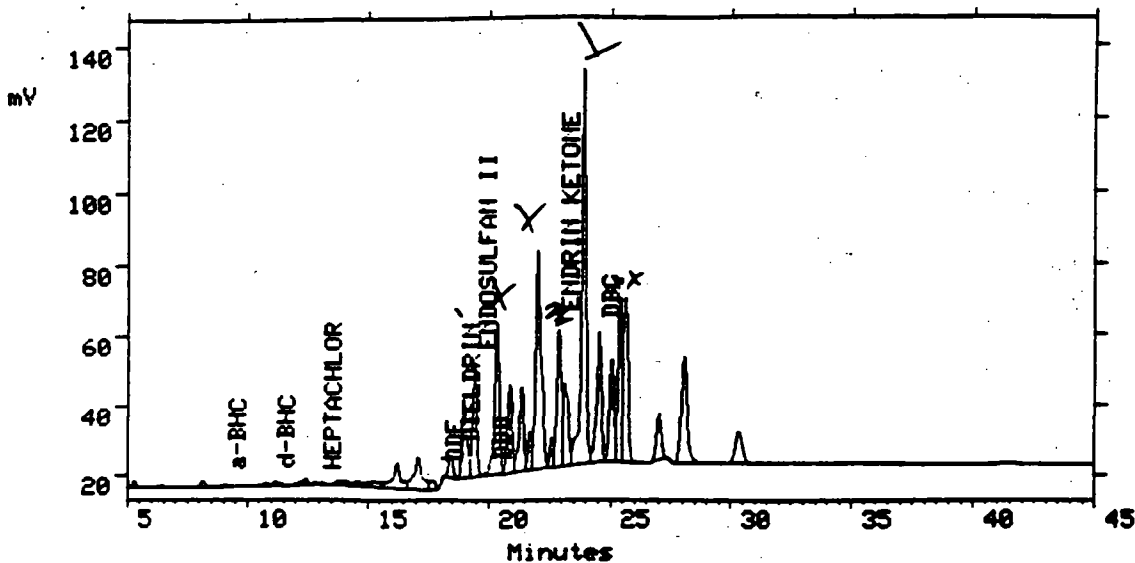


00173

Second Plot:

Seq? Ar 1262

EPA12 Manual Injection 1 Ch 1



Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Peak Detect Threshold 1 Peak Width 20 sec
 Integration Delay 5.00 min Area Reject 500
 Integration Events:

Time	Event	Parameter
18.00	Set baseline point	20
24.60	Set baseline point	20

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

GC Results:

Peak Name	Ret Time	Area	Amount
UNKNOWN	5.274	24344	-
UNKNOWN	6.024	2885	-
UNKNOWN	6.196	2457	-
UNKNOWN	6.432	7013	-
UNKNOWN	7.370	2116	-
UNKNOWN	7.821	2206	-
UNKNOWN	8.149	23281	-
UNKNOWN	8.493	1930	-
a-BHC	9.144	12925	0.017
UNKNOWN	9.903	822	-
UNKNOWN	10.731	11492	-
d-BHC	11.171	17809	0.025
UNKNOWN	11.412	5989	-
UNKNOWN	12.424	30573	-
UNKNOWN	12.828	8250	-
HEPTACHLOR	13.103	4334	0.003
UNKNOWN	13.786	20390	-
UNKNOWN	14.090	21571	-
UNKNOWN	14.571	29870	-

00174

Peak Name	Ret Time	Area	Amount
UNKNOWN	15.035	19057	-
UNKNOWN	15.271	43817	-
UNKNOWN	16.220	167116	-
UNKNOWN	17.092	220378	-
UNKNOWN	17.673	45535	-
DDE	18.140	8337	0.007 [^]
DIELDRIN	18.413	83516	0.079 [^]
UNKNOWN	18.975	308618	-
ENDOSULFAN II	19.417	393341	0.371 [^]
DDD	19.847	5722	0.008 [^]
UNKNOWN	20.336	599083 X	-
UNKNOWN	20.863	352195	-
UNKNOWN	21.360	330914	-
UNKNOWN	21.701	118046	-
UNKNOWN	22.010	986064 X	-
UNKNOWN	22.604	90213	-
ENDRIN KETONE	22.880	495441	0.390 [^]
UNKNOWN	23.096	382488	-
UNKNOWN	23.892	1446673 X	-
DBC	24.538	512980	0.453 [^]
UNKNOWN	25.044	368300	-
UNKNOWN	25.410	613319 X	-
UNKNOWN	25.627	613512 X	-
UNKNOWN	26.263	5811	-
UNKNOWN	27.024	197863	-
UNKNOWN	28.054	536917	-
UNKNOWN	30.332	194420	-
UNKNOWN	32.506	3929	-
UNKNOWN	35.070	7545	-

Seq 2 Ar 1262

This amount was computed using manually entered responses.

$$RF: \frac{4262000}{5.424 \mu\text{g/ml}} = 786000 \text{ /mg/ml}$$

$$\text{Det limit: } \frac{5 \mu\text{g/ml}}{786000} \bigg/ \frac{1 \mu\text{g}}{0.031 \text{ kg}} = 1.03 \text{ mg/kg}$$

$$\text{DBC RT Shift: } \frac{24.538 - 24.672}{24.672} \times 100 = 0.54\%$$

Seq 2 R. 1262

ersion: 860/V2.2
ode: VAX2

Printed: 2-May-1991 at 08:31:34
GC Project: DB-5

Page 1
User: WEBSTER
3.09 mg/l

: P A 1 3

2 - M a y - 1 9 9 1

0 : 0 1 : 3 8

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	6
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Node:

Acquired on node LACE01 system 6 for DB-5

Channel:

DB-5

Method:

DB-5 CAPILLARY COLUMN
INITIAL TEMP: 150 DEG
FINAL TEMP: 265 DEG
RAMP: 5 DEG/ MIN

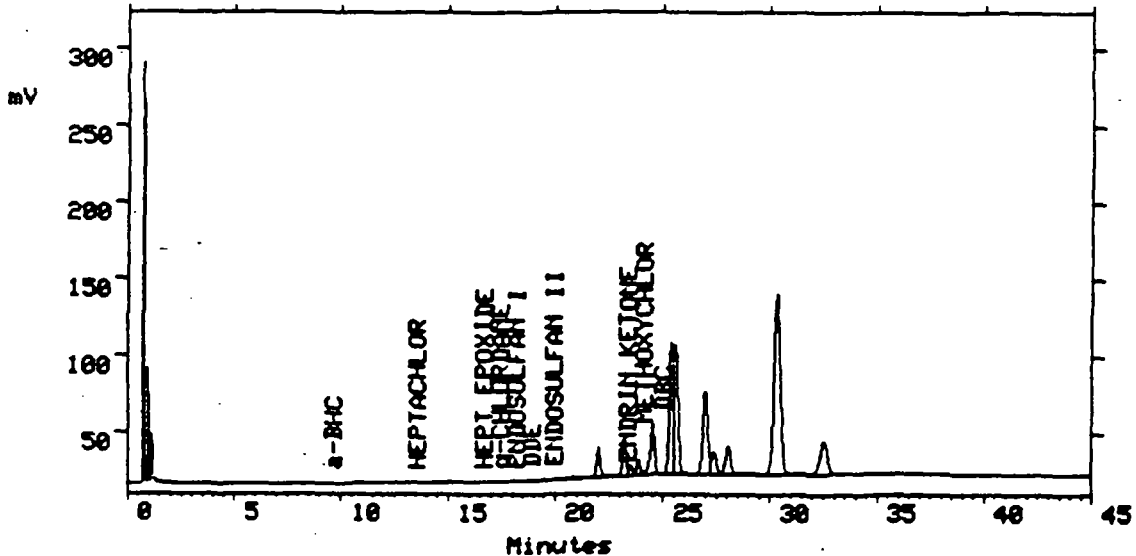
INITIAL TIME: 1 MIN
FINAL TIME: ~~11 MIN~~ 21 min
RUN TIME: ~~35 MIN~~ 45 min

Sample:

External vial 13

First Plot:

EPA13 Manual Injection 1 Ch 1

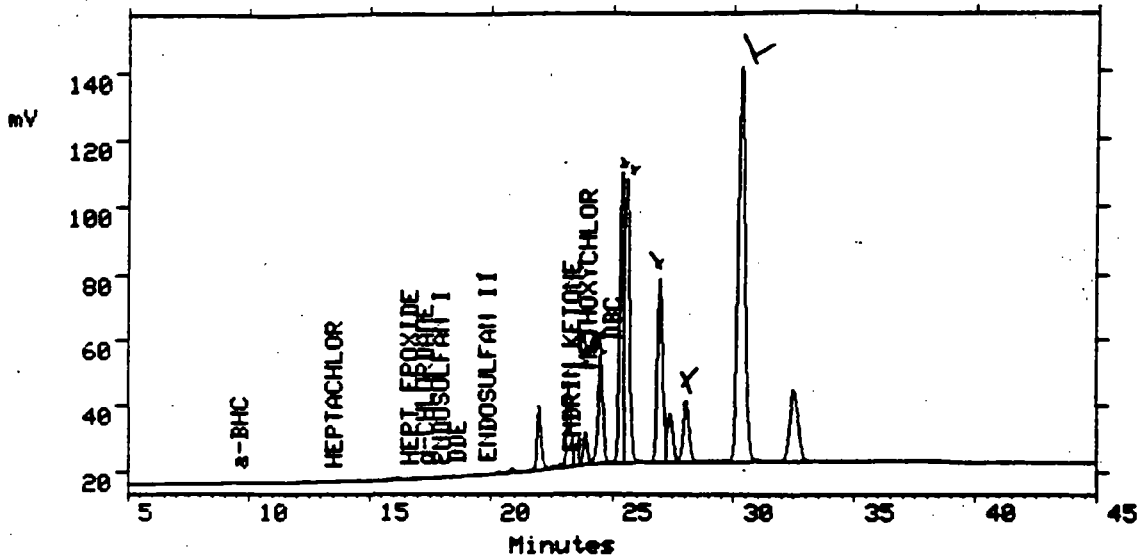


00170

Second Plot:

Seq 2 Air 1267

EPA13 Manual Injection 1 Ch 1



Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Peak Detect Threshold 1 Peak Width 20 sec
 Integration Delay 5.00 min Area Reject 500
 Integration Events:

Time	Event	Parameter
18.00	Set baseline point	20
24.60	Set baseline point	20

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

GC Results:

Peak Name	Ret Time	Area	Amount
UNKNOWN	5.332	559	-
UNKNOWN	8.123	755	-
alpha-BHC	9.161	1002	0.001
UNKNOWN	10.734	2353	-
UNKNOWN	11.418	1315	-
UNKNOWN	12.429	6012	-
UNKNOWN	12.835	1817	-
HEPTACHLOR	13.101	2112	0.002
UNKNOWN	13.787	6966	-
UNKNOWN	14.570	4225	-
UNKNOWN	15.031	2079	-
HEPT EPOXIDE	16.185	9888	0.007
g-CHLORDANE	16.858	2677	0.004
UNKNOWN	17.089	3440	-
ENDOSULFAN I	17.315	1011	0.001
DDE	18.142	830	0.001
UNKNOWN	18.498	2786	-
UNKNOWN	18.971	1738	-
ENDOSULFAN II	19.458	4237	0.004

RF = $\frac{5938000}{607000} = \frac{1479000}{2019000}$ / $\frac{3.0 \mu\text{g/L}}{\mu\text{g/L}}$

Det limit: $\frac{57 \mu\text{g/L}}{2019000} \times \frac{500}{1000} = 0.4$
 $\frac{500}{1000} = 0.5$

DBC RT Shift: $\frac{24.672 - 24.541}{24.672} \times 100 = 0.53$

00177

Peak Name	Ret Time	Area	Amount
UNKNOWN	20.351	8177	-
UNKNOWN	20.903	17345	-
UNKNOWN	21.361	1167	-
UNKNOWN	22.011	245392	-
UNKNOWN	22.606	7278	-
ENDRIN KETONE	22.881	10123	0.008^
METHOXYCHLOR	23.219	310320	0.385^
UNKNOWN	23.510	80422	-
UNKNOWN	23.892	120128	-
DBC	24.541	471033 2	0.416^
UNKNOWN	25.412	1105013x	-
UNKNOWN	25.622	1133803x	-
UNKNOWN	26.981	886532x	-
UNKNOWN	27.384	236527	-
UNKNOWN	28.053	341110x	-
UNKNOWN	29.347	7281	-
UNKNOWN	30.334	2470083x	-
UNKNOWN	32.517	540759	-

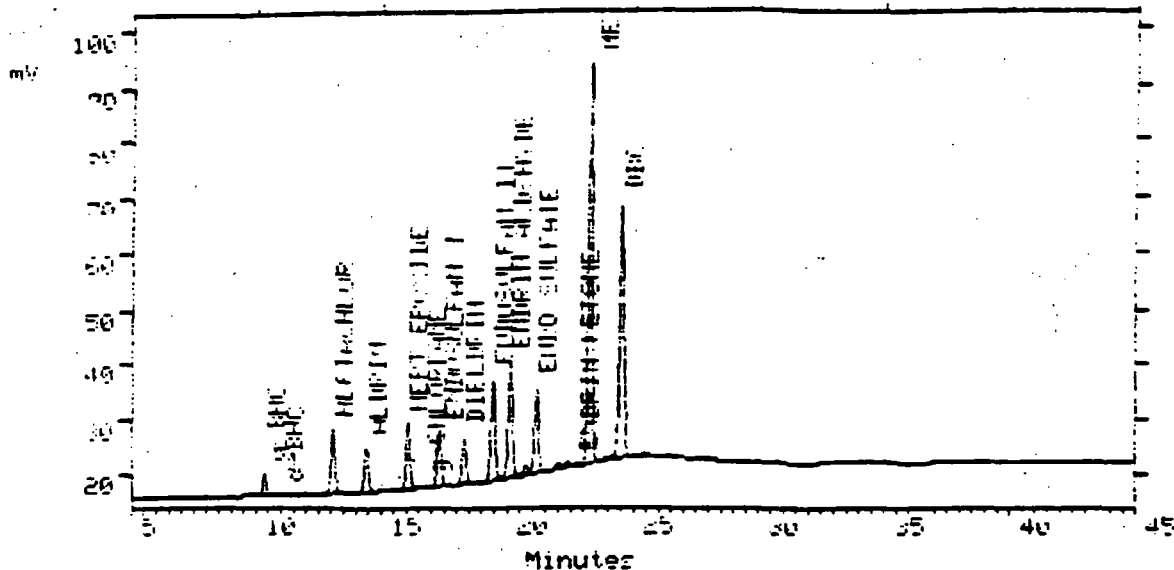
Sag 2
Nr 1208

^ This amount was computed using manually entered responses.

Second File

Seg 2 1" (END)

EPHAT Manual Injection 1 On 1



Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Peak Detect Threshold 1 Peak Width 20 sec
 Integration Delay 5.00 min Area Reject 500
 Integration Events:

Time	Event	Parameter
18.00	Set baseline point	20
24.50	Set baseline point	20

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

GC Results:

Peak Name	Ret Time	Area	Amount
UNKNOWN	5.092	600	-
g-BHC	10.345	38127	0.051*
d-BHC	11.093	3415	0.005*
UNKNOWN	11.967	2387	-
HEPTACHLOR	13.086	132142	0.102*
ALDRIN	14.423	97785	0.102*
UNKNOWN	15.536	3036	-
HEPT EPOXIDE	16.079	132527	0.100*
g-CHLORDANE	16.802	3074	0.004*
ENDOSULFAN I	17.311	118068	0.103*
DIELDRIN	18.309	100628	0.095*
UNKNOWN	18.831	1782	-
ENDOSULFAN II	19.445	212558	0.201*
ENDRIN ALDEHYDE	20.142	246823	0.225*
UNKNOWN	20.750	15831	-
ENDOSULFATE PDT	21.167	170653	0.152*
UNKNOWN	22.040	9285	-
UNKNOWN	22.395	12333	-
ENDRIN KETONE	22.822	5168	0.004*

DBC RT 24.672 :
 $\frac{24.672 - 24.537}{24.672} \times 100 = 0.54\%$

Deal Name	Ret. Time	Area	Amount
METHOXYCHLOR	26.277	751763	0.491*
DBC	24.535	558564	0.493*
UNKNOWN	25.614	7540	-
UNKNOWN	27.999	848	-
UNKNOWN	30.299	10110	-

Seg 2
A*
(END)

* This amount was computed using manually entered responses.

ersion: 860/V2.2 Printed: 2-May-1991 at 13:36:51
ode: VAX2 GC Project: DB-5

P 2 8

2 - M a y - 1 9 9 1

1 2 : 1 3 : 0 2

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	6
Channel		Manual injector	
Injection		Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume		Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Node:

Acquired on node LACE01 system 6 for DB-5

Channel:

DB-5

Method:

DB-5 CAPILLARY COLUMN
INITIAL TEMP: 150 DEG
FINAL TEMP: 265 DEG
RAMP: 5 DEG/ MIN

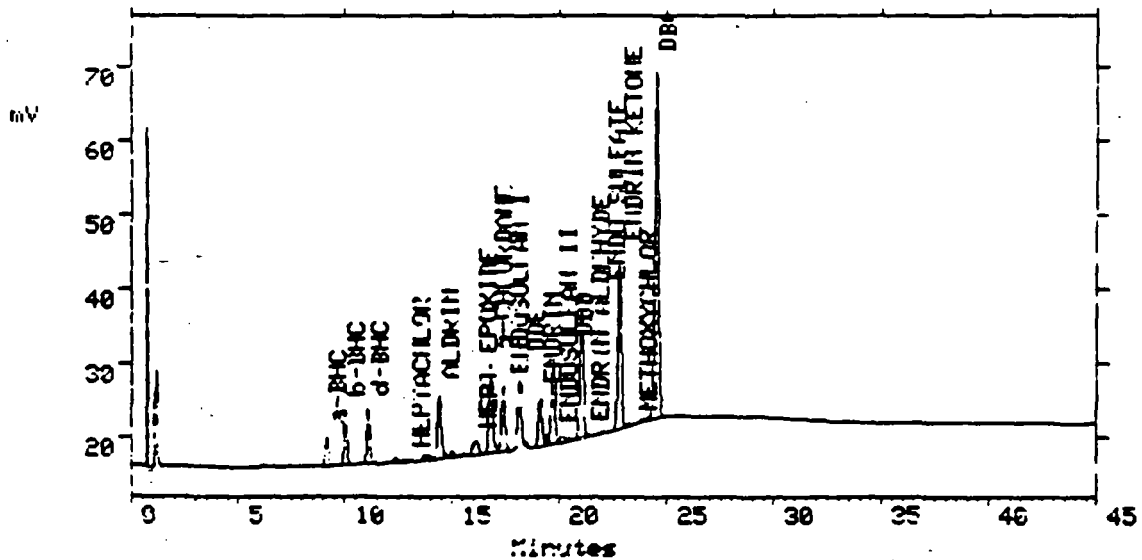
INITIAL TIME: 1 MIN
FINAL TIME: 21 MIN
RUN TIME: 45 MIN

Sample:

External vial 28

First Plot:

EPA28 Manual Injection 1 Ch 1



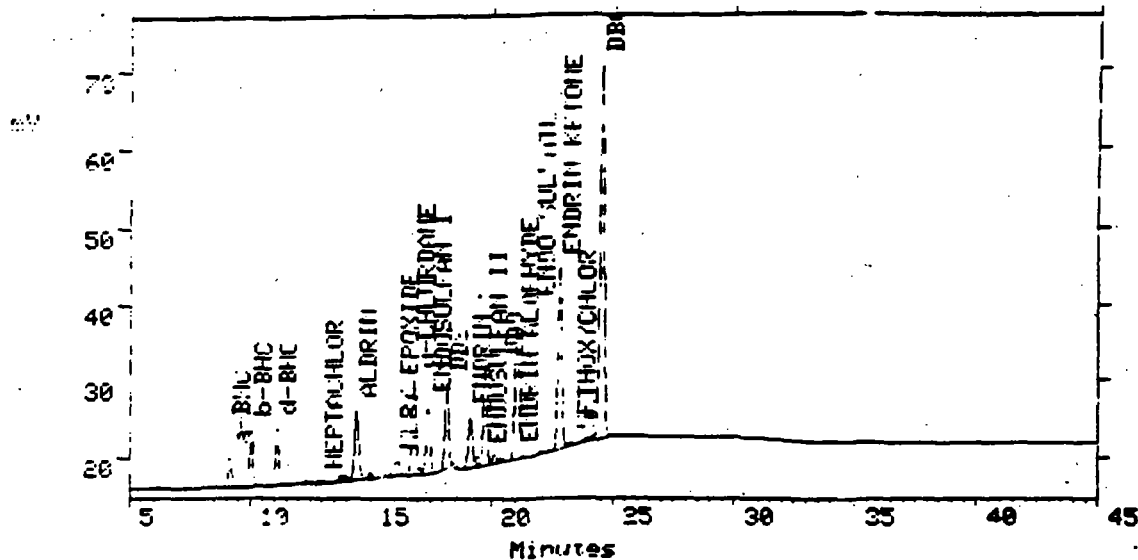
00182

second plot:

Seq 2 B

END

EPA28 Manual Injection 1 of 1



Conditions:

Sample amount Internal standard amt
Scale factor Mode Analysis
Keyboards of Remote Devices Unlocked

Manually integrated peaks have integration types with 1 or more 's'.

Do Not Update Retention Time Retention Time Offset 0.00 sec
Relative Peak Window 1% Absolute Peak Window 6 sec

Errors Reported From Integration/Quantitation:
Integration method file was not found

C Results:

Peak Name	Ret Time	Area	Amount
UNKNOWN	6.123	297	-
a-BHC	9.165	35669	0.048
UNKNOWN	9.516	549	-
b-BHC	10.049	70001	0.096
UNKNOWN	10.716	1413	-
d-BHC	11.120	72405	0.100
UNKNOWN	11.475	2152	-
UNKNOWN	11.994	1983	-
UNKNOWN	12.417	8840	-
UNKNOWN	12.827	3923	-
HEPTACHLOR	13.052	3922	0.003
UNKNOWN	13.305	904	-
UNKNOWN	13.758	8796	-
UNKNOWN	13.934	10074	-
ALDRIN	14.423	114445	0.119
UNKNOWN	15.010	10009	-
UNKNOWN	15.538	5251	-
HEPT EPOXIDE	15.166	37525	0.028
γ-CHLORDANE	16.815	148178	0.198
ENDOSULFAN I	17.403	107974	0.094
DDE	18.164	117765	0.099

DBc RT shift:
 $\frac{24.672 - 24.527}{24.672} \times 100$
0.59 %

00183

Peak Name	Ret Time	Area	Amount
UNKNOWN	18.478	5338	-
ENDRIN	19.128	85953	0.086^
ENDOSULFAN II	19.452	9243	0.009^
DDD	19.730	140451	0.194^
ENDRIN ALDEHYDE	20.144	20412	0.019^
ENDO SULFATE	21.045	223410	0.199^
UNKNOWN	22.048	3174	-
UNKNOWN	22.399	1086	-
ENDRIN KETONE	22.813	261340	0.205^
METHOXYCHLOR	23.267	5308	0.007^
DBC	24.527	595081	0.526^
UNKNOWN	25.607	6887	-

Seq 2 B
(END)

* This amount was computed using manually entered responses.

Seq 2 A. 1263

Version: 860/V2.2 Printed: 2-May-1991 at 13:47:06
Node: VAX2.60 Project: DB-5

Page 1
User: WEBSTER

3.03 mg/ml

EPA29

2-May-1991

13:02:05

Headers:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	6
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	1.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Descriptions:

Node:

Acquired on node LACE01 system 6 for DB-5

Channel:

DB-5

Method:

DB-5 CAPILLARY COLUMN

INITIAL TEMP: 150 DEG

FINAL TEMP: 265 DEG

RAMP: 5 DEG/ MIN

INITIAL TIME: 1 MIN

FINAL TIME: 21 MIN

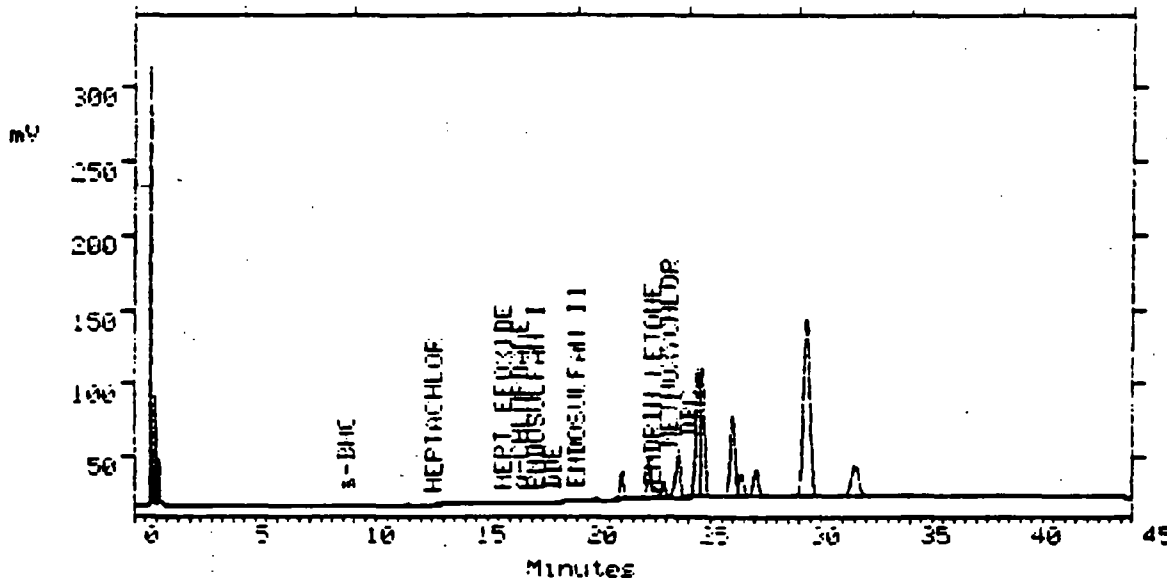
RUN TIME: 45 MIN

Sample:

External vial 29

First Plot:

EPA29 Manual Injection 1 Ch 1

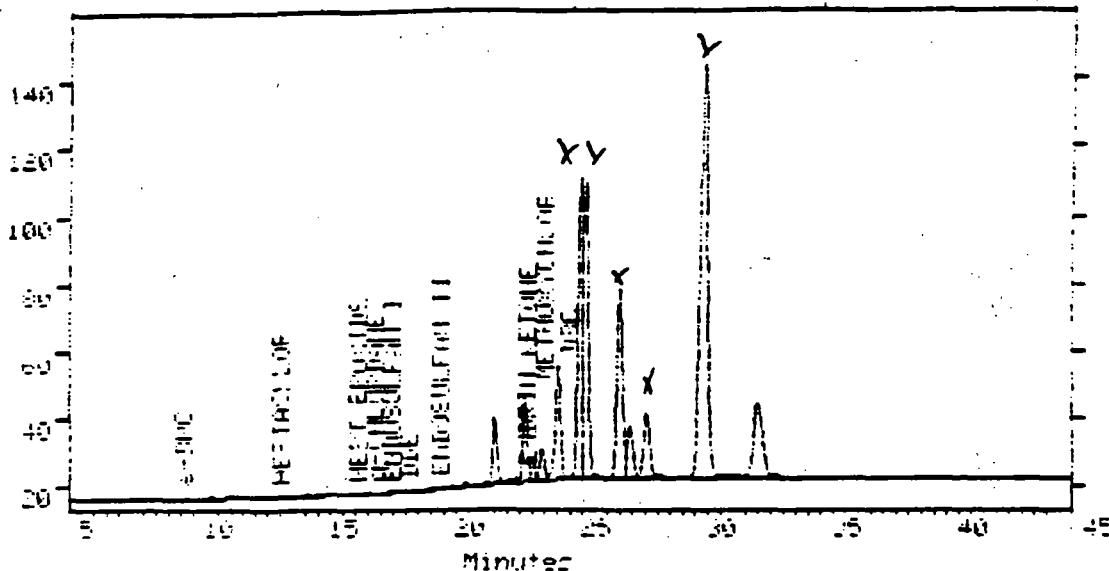


0018

Seq 2 Ac 1268

Sample File:

EPA29 manual Injection 1 Ch 1



Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Peak Detect Threshold 1 Peak Width 20 sec
 Integration Delay 5.00 min Area Reject 500
 Integration Events:

Time	Event	Parameter
18.00	Set baseline point	20
24.60	Set baseline point	20

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

GC Results:

Peak Name	Ret Time	Area	Amount
UNKNOWN	8.091	881	-
a-BHC	9.160	981	0.001*
UNKNOWN	10.733	2130	-
UNKNOWN	11.421	1208	-
UNKNOWN	12.423	6185	-
UNKNOWN	12.824	1756	-
HEPTACHLOR	13.107	693	0.001*
UNKNOWN	13.765	2984	-
UNKNOWN	13.939	3243	-
UNKNOWN	14.568	4407	-
UNKNOWN	15.022	2184	-
HEPT EPOXIDE	16.181	10197	0.008*
g-CHLORDANE	16.851	2865	0.004*
UNKNOWN	17.081	3724	-
ENDOSULFAN I	17.301	1175	0.001*
DDE	18.126	1258	0.001*
UNKNOWN	18.489	2852	-
UNKNOWN	18.963	2295	-
ENDOSULFAN II	19.447	4346	0.004*

$RF = \frac{6033000}{7.03 \mu g/l} = 195900$
 %D = 1.0%

Det Lin =
 $\frac{5 \mu g/l \times 500 / 10ml}{195900} =$

0.412 $\mu g/l$

DSC RT Shift: 00180
 $\frac{24672 - 24527}{24672} \times 100 = 0.5\%$

Peak Name	Ret. Time	Area	Amount
UNKNOWN	19.267	9567	-
UNKNOWN	20.891	17404	-
UNKNOWN	21.572	1355	-
UNKNOWN	21.998	251563	-
UNKNOWN	21.998	8465	-
ENDRIN KETONE	22.870	11291	0.009*
METHOXYCHLOR	23.767	310567	0.796*
UNKNOWN	23.497	83214	-
UNKNOWN	23.680	103466	-
DRC	24.527	475130	0.420*
UNKNOWN	25.398	1108801	-
UNKNOWN	25.603	1118919	-
UNKNOWN	26.766	299362	-
UNKNOWN	27.369	238657	-
UNKNOWN	28.037	843780	-
UNKNOWN	29.377	7819	-
UNKNOWN	30.310	2104203	-
UNKNOWN	32.501	550251	-

Seg 2
Ar 1268

* This amount was computed using manually entered responses.

1D
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERING Contract: ESE SHELTON
 Matrix: SOIL Lab Sample ID: PBLK26
 Sample wt: 0.031 kg Lab file ID: SHELTON60601
 Level: LOW Date Received: N/A
 % Moisture: not dec. dec. Date Extracted: 03/26/91
 Extraction: Sonic Date Analyzed: 04/11/91
 GPC Cleanup: (Y/N) N Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	80.	U
11104-28-2	Aroclor-1221	80.	U
11141-16-5	Aroclor-1232	80.	U
53469-21-9	Aroclor-1242	80.	U
12672-29-6	Aroclor-1248	80.	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U
37324-23-5	Aroclor-1262	160	U
11100-14-4	Aroclor-1268	160	U

Seg 1

Version: 88A/V2.1
 Mode: MAXD

Printed: 11-Apr-1991 at 15:24:00
 GC Projects: 608A

Page: 1
 User: UPTON

3-26-91

SHELTON60

11-Apr-1991

13:15:00

VF=10.

Header

Acquisition method	DEPTDCE	Processing method	DEPTDCE
Unit		System number	5
Channel	1	Manual injection	
Injection		Total injections	1
Run time	45.00 min	Sample rate	0.100 per sec
Injection volume	0.10	Mode	Analysis
Acquisition version	LAD, EACV.1.2	Processing version	V2.0

Description:

Node:
 Acquired on node LACE01 system 5 for 608A

Channel:
 MEGABORE 608

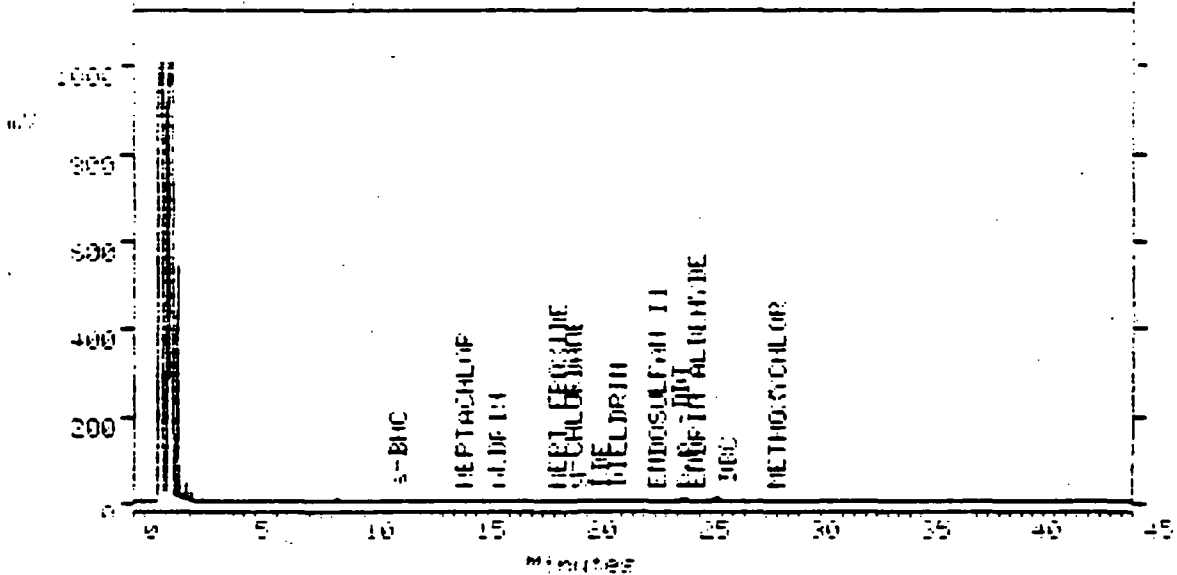
Sample:
 External via 60

Print Plot:

Conditions

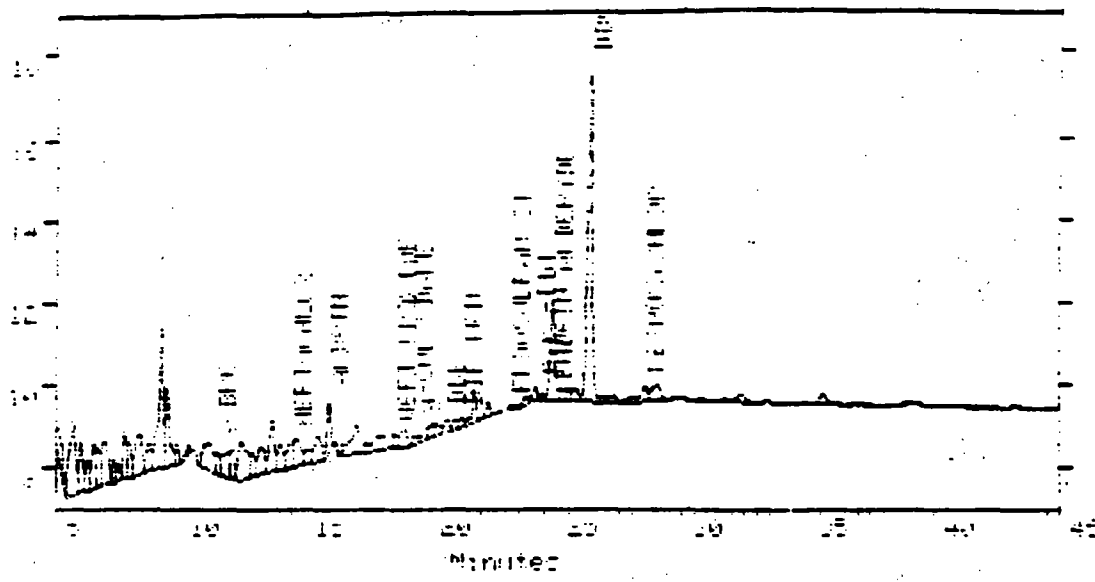
Chim Temp - 150° fci/m
Rate - 5%/min
Final Temp - 265° fci
Chg Temp - 200°
Det Temp - 300°

SHELTON60 Manual Injection 1 of 1



Seg 1
 PBLK 2
 ESE-51
 3-26-91
 up 1/2

Chromatogram showing peaks over time (minutes).



Conditions:

Sample amount: Internal standard amt
 Scale factor: Mode:
 Keyboards or Remote Devices Unlocked:
 Acquisition:
 1000

Peak Detect Threshold: 1
 Integration Delay: 5.00 min
 Peak Width: 20 sec
 Area Reject: 200

Integration Events:

Time	Event	Parameter
9.00	Enable peak detection	10
24.00	Set baseline point	100

Do Not Update Retention Time:
 Relative Peak Window: 1%
 Retention Time Offset: 0.00 sec
 Absolute Peak Window: 5 sec

GC Results:

Peak Name	Ret Time	Area	Amount
UNKNOWN	5.052	14323	-
UNKNOWN	5.675	32521	-
UNKNOWN	6.000	16050	-
UNKNOWN	6.265	7892	-
UNKNOWN	6.512	12485	-
UNKNOWN	6.702	11271	-
UNKNOWN	6.949	19730	-
UNKNOWN	7.328	5322	-
UNKNOWN	7.502	3341	-
UNKNOWN	7.752	11987	-
UNKNOWN	7.920	9402	-
UNKNOWN	8.365	21021	-
UNKNOWN	8.744	9928	-
UNKNOWN	9.235	47253	-
UNKNOWN	9.473	23647	-
UNKNOWN	9.893	4603	-
UNKNOWN	10.353	2643	-
UNKNOWN	11.151	19925	-
s-BHC	11.478	5812	0.0206

Seq. Name	mg/kg	mg/kg	mg/kg
UNKNOWN	11.097	11097	-
LINKDOWN	12.094	8482	-
UNKNOWN	12.451	87181	-
UNKNOWN	12.908	17574	-
UNKNOWN	13.029	13647	-
UNKNOWN	13.701	19850	-
UNKNOWN	14.000	11084	-
HEPTACHLOR	14.468	1080	0.002
UNKNOWN	14.671	12012	-
UNKNOWN	15.111	5747	-
UNKNOWN	15.502	12570	-
ALDRIN	15.924	12520	0.045
UNKNOWN	17.005	19053	-
UNKNOWN	17.873	10020	-
UNKNOWN	18.025	3205	-
HEPT EPOXIDE	18.626	3784	0.009
p,p'-DDE	18.881	6415	0.021
UNKNOWN	19.407	3643	-
UNKNOWN	19.817	3501	-
UNKNOWN	20.011	4056	-
UNKNOWN	20.054	4420	-
DDE	20.602	5008	0.015
DIELDRIN	20.948	2989	0.010
UNKNOWN	21.000	2633	-
UNKNOWN	21.714	2011	-
UNKNOWN	22.057	4283	-
ENDOSULFAN II	23.121	705	0.002
UNKNOWN	23.336	778	-
UNKNOWN	23.791	2857	-
p,p'-DDT	24.144	4316	0.027
ENDRIN ALDEHYDE	24.423	1318	0.005
UNKNOWN	24.826	33608	-
UNKNOWN	25.185	3764	-
UNKNOWN	25.412	3722	-
UNKNOWN	25.717	7772	-
DBC	26.056	104555	0.437 = 142.0 mg/kg
UNKNOWN	27.077	2347	-
UNKNOWN	27.989	3567	-
METHOXYCHLOR	28.487	2473	0.011
UNKNOWN	29.002	9572	-
UNKNOWN	30.791	1205	-
UNKNOWN	31.575	711	-
UNKNOWN	32.057	3794	-
UNKNOWN	35.991	5459	-
UNKNOWN	39.252	850	-

Seq 1
 FBLK 26
 ESE-SL
 3-26-9
 up 16m

* This amount was computed using manually entered responses.

- DBC FT. Shift

$$\frac{26.284 - 26.266}{26.284} \times 100\% = 0.07\%$$

- DBC Added

$$\frac{1}{0.031} = 32.3 \text{ mg/kg}$$

- DBC Recovery

$$\frac{142}{32.3} = 4410\%$$

001

Seg 1

EPA SAMPLE NO. PBLK01

ID
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERING

Contract: ESE SHELTON

Matrix: SOIL

Lab Sample ID: PBLK01

Sample wt: 0.031 kg

Lab file ID: SHELTON61611

Level: LOW

Date Received: N/A

% Moisture: not dec. dec.

Date Extracted: 04/01/91

Extraction: Sonc

Date Analyzed: 04/11/91

GPC Cleanup: (Y/N) N

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	80.	U
11104-28-2	Aroclor-1221	80.	U
11141-16-5	Aroclor-1232	80.	U
53469-21-9	Aroclor-1242	80.	U
12672-29-6	Aroclor-1248	80.	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U
37324-23-5	Aroclor-1262	160	U
11100-14-4	Aroclor-1268	160	U

00192

Seq 1

Version: 860/V2.2
Node: VAXC

Printed: 11-Apr-1991 at 15:24:23
GC Project: 608A

Page 1
User: UGTPH

4-1-91

SHELTON61

11-Apr-1991

15:24:13

VF=10.

Header:

Acquisition method	DETECT	Processing method	DETECT
Channels	1	Injection number	1
Injection	1	Manual injector	1
Run time	40.00 min	Total injection	1
Injection volume	0.01	Sample rate	2.000 per sec
Acquisition version	LACRE, V2.2	Mode	Analogue
		Processing version	V2.2

Descriptions:

Node:

Acquired on node LAC01 system 0 for 608A

Channel:

MEGARORE 608

Sample:

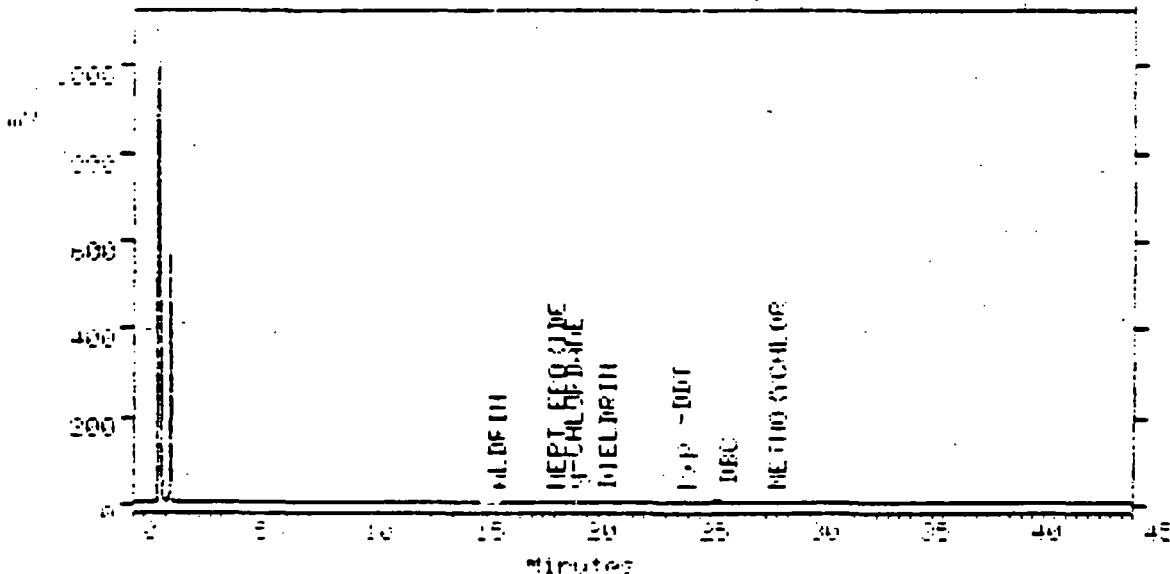
External vial 51

Print Plot:

SHELTON61 Manual Injection 1 Ch 1

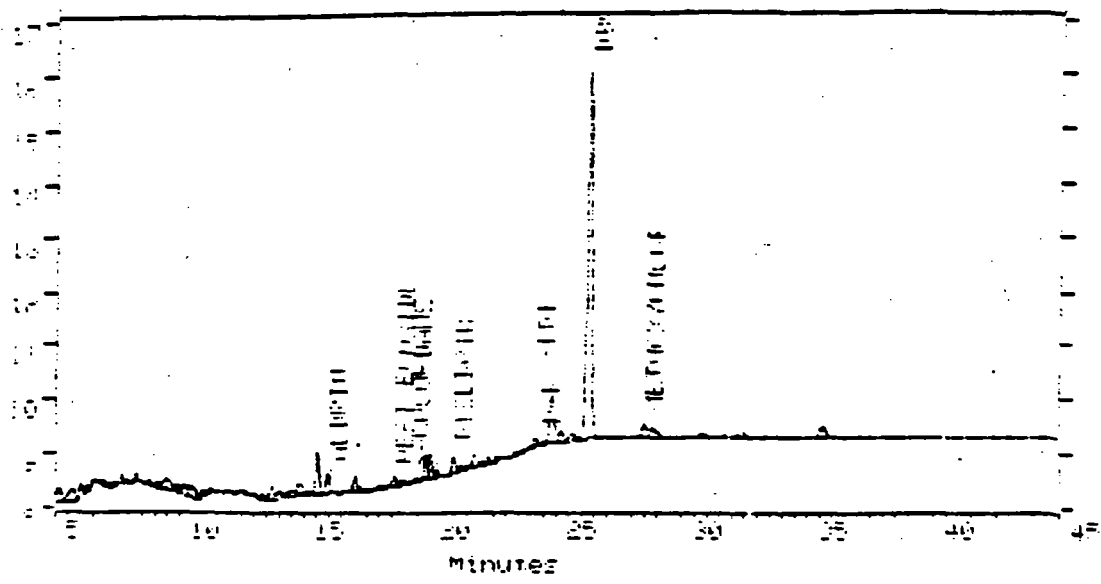
Conditions

Inlet Temp. 150° for 1min
 Rate - 5°/min
 Final Temp. 265° for 0
 Inj Temp. - 200°
 Det Temp. 300°



Seg 1
 PBLK 01
 ESE-54
 -1-1-91
 UF=10

PHILTON: Market Injection . On 1



Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Remote Devices Unlocked

Peak Detect Threshold 1 Peak Width 20 sec
 Integration Delay 5.00 min Area Reject 200

Time	Event	Parameter
9.00	enable peak detection	20
24.00	Set baseline point	20

Do Not Update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 11 Absolute Peak Window 6 sec

PD Results:

Peak Name	Ret Time	Area	Amount
UNKNOWN	5.150	5017	-
UNKNOWN	5.654	4896	-
UNKNOWN	6.006	2868	-
UNKNOWN	6.278	639	-
UNKNOWN	6.923	917	-
UNKNOWN	7.637	1954	-
UNKNOWN	8.200	1101	-
UNKNOWN	9.075	816	-
UNKNOWN	9.445	4752	-
UNKNOWN	9.682	1410	-
UNKNOWN	10.169	2592	-
UNKNOWN	10.456	3622	-
UNKNOWN	10.907	1060	-
UNKNOWN	11.263	1243	-
UNKNOWN	12.515	534	-
UNKNOWN	13.723	2691	-
UNKNOWN	14.061	1634	-
UNKNOWN	14.804	3509	-
UNKNOWN	15.526	7784	-

Peak Name	Retention Time	Area	Concentration
ALDEHYD	17.408	1200	0.002*
UNKNOWN	17.006	950	-
UNKNOWN	18.002	800	-
HEPT EPOXIDE	18.581	3413	0.008*
M-OH DIPHEN	18.805	1120	0.003*
UNKNOWN	19.203	1000	-
UNKNOWN	19.804	1000	-
UNKNOWN	19.993	4052	-
UNKNOWN	20.200	1000	-
BIBENZIN	20.401	3700	0.010*
UNKNOWN	21.104	1000	-
UNKNOWN	21.706	1500	-
UNKNOWN	22.206	1500	-
UNKNOWN	22.506	700	-
UNKNOWN	23.406	600	-
DIETHYL	24.155	1986	0.010*
UNKNOWN	24.808	1000	-
UNKNOWN	25.180	1000	-
UNKNOWN	25.811	1000	-
DBC	26.263	80010 x .257550	0.047* = 113 ug/kg
METHYLAVOCHOL	26.464	3500	0.002*
UNKNOWN	26.791	3970	-
UNKNOWN	30.780	1100	-
UNKNOWN	32.362	2148	-
UNKNOWN	35.580	200	-

Seg 1

PB&K
 FSE-SL
 4-1-91
 ug/kg

* This amount was computed using manually entered responses.

- DBC RT. Shift

$$\frac{26.261 - 26.263}{26.284} \times 100\% = 0.08\%$$

- DBC Added

$$\frac{1}{0.031} = 32.3 \text{ ug/kg}$$

- DBC Recovery

$$\frac{113}{32.3} = 350\%$$

Seg 1

EPA SAMPLE NO. PBLK03

1D
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERING

Contract: ESE SHELTON

Matrix: SOIL

Lab Sample ID: PBLK03

Sample wt: 0.031 kg

Lab file ID: SHELTON62621

Level: LOW

Date Received: N/A

% Moisture: not dec. dec.

Date Extracted: 04/03/91

Extraction: Sonc

Date Analyzed: 04/11/91

GPC Cleanup: (Y/N) N

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	80.	U
11104-28-2	Aroclor-1221	80.	U
11141-16-5	Aroclor-1232	80.	U
53469-21-9	Aroclor-1242	80.	U
12672-29-6	Aroclor-1248	80.	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U
37324-23-5	Aroclor-1262	160	U
11100-14-4	Aroclor-1268	160	U

Version: 560 V2.2
Model: VAX2
Printed: 11-APR-1991 at 16:13:17
HP Comment: 608A

Page 1
User: JFJ

up=10m

SHELTON62

11-APR-1991

16:13:17

Header:

Acquisition method	MANUAL	Process and method	MANUAL
Ch. #	1	Injection number	1
Channel	1	Manual injector	1
Injection	1	Injection volume	100
Run time	45:00 min	Sample name	1000
Injection time	0 min	Notes	
Acquisition version	LAC 2, V2.2	Processing version	V2.2

Identification:

Node:

Acquired on node LAC201 system 7 for 608A

Channel:

MEGASORE 608

Sampler:

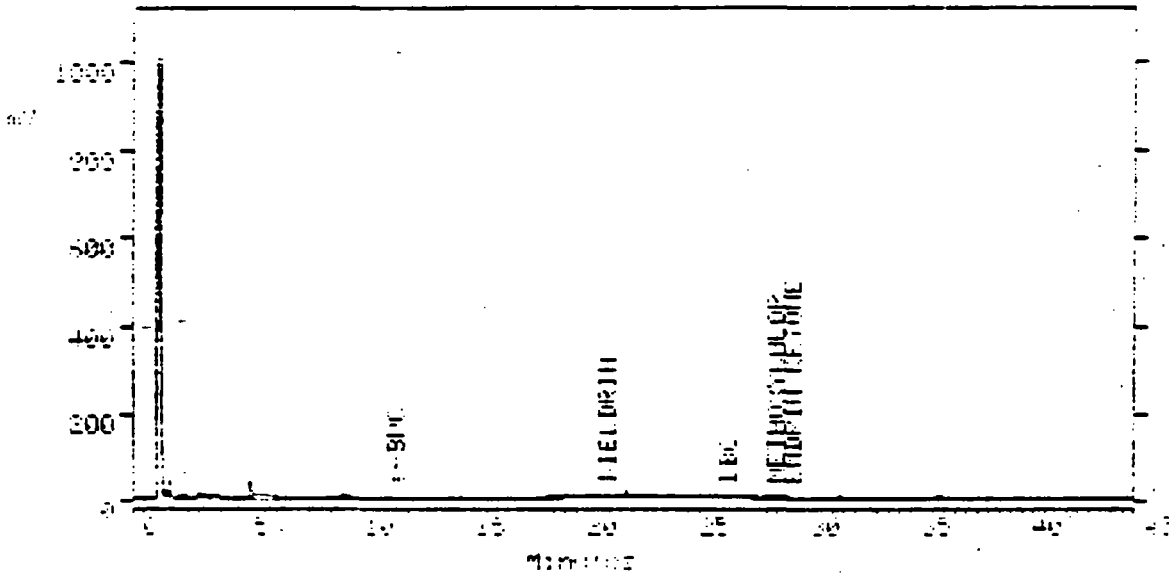
External vial 60

Print Points:

SHELTON62 manual Injection : CH 1

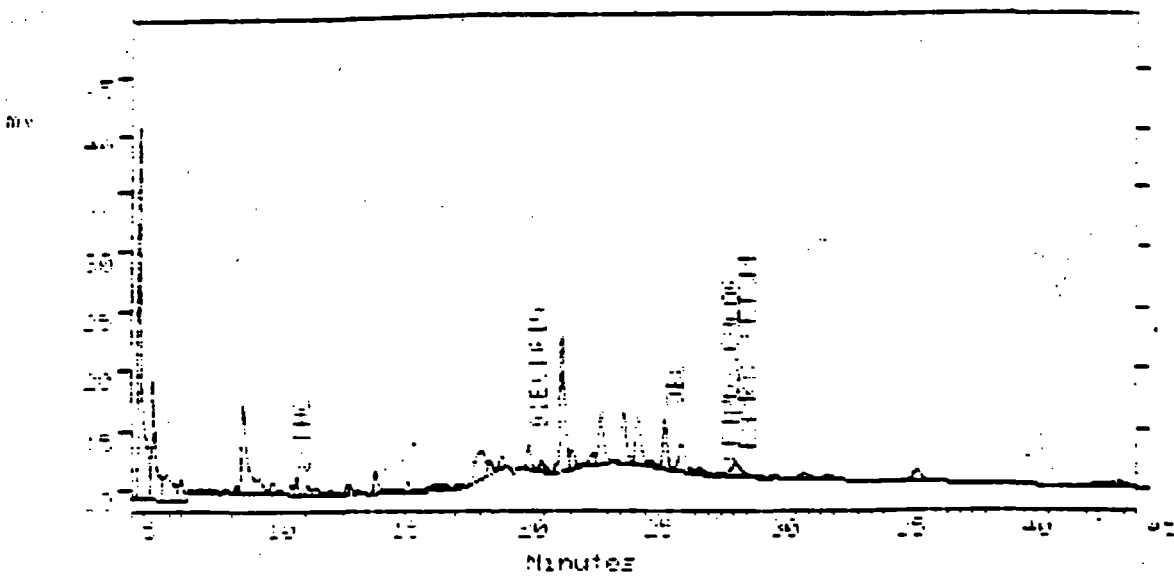
Condition

Start Temp - 150° for 31m
Rate - 5/min
Final Temp - 265° for 31m
Inj Temp - 200°
Det Temp - 300°



Seg 1
 PBK
 ESF-2
 4-3
 VP

Chromatogram



Conditions:

Sample amount Internal standard amt
 Scale factor Mode Analysis
 Keyboards of Femore Devices Unlocked

Peak Detect Threshold 1 Peak Width 20 sec
 Integration Delay 5.00 min Area Reject 000
 Integration Events:

Time	Event	Parameter
9.00	Enable peak detection	07
24.00	Set baseline point	20

Do not update Retention Time Retention Time Offset 0.00 sec
 Relative Peak Window 1% Absolute Peak Window 6 sec

GC Results:

Peak Name	Ret Time	Area	Amount
UNKNOWN	5.317	329892	-
UNKNOWN	5.665	109051	-
UNKNOWN	6.433	63125	-
UNKNOWN	6.975	25658	-
UNKNOWN	7.341	2459	-
UNKNOWN	7.755	4060	-
UNKNOWN	8.060	6353	-
UNKNOWN	8.359	5243	-
UNKNOWN	8.729	3767	-
UNKNOWN	9.183	4879	-
UNKNOWN	9.479	121268	-
UNKNOWN	10.133	17593	-
UNKNOWN	10.651	12108	-
a-BHC	11.411	7646	0.027
UNKNOWN	11.621	12962	-
UNKNOWN	12.093	9673	-
UNKNOWN	12.469	11172	-
UNKNOWN	12.775	3741	-
UNKNOWN	12.997	8294	-

Seq	Name	Est	Cost	Amount
1	UNKNOWN	11.000	11000	-
2	UNKNOWN	12.000	12000	-
3	UNKNOWN	13.000	13000	-
4	UNKNOWN	14.000	14000	-
5	UNKNOWN	15.000	15000	-
6	UNKNOWN	16.000	16000	-
7	UNKNOWN	17.000	17000	-
8	UNKNOWN	18.000	18000	-
9	UNKNOWN	19.000	19000	-
10	UNKNOWN	20.000	20000	-
11	UNKNOWN	21.000	21000	-
12	UNKNOWN	22.000	22000	-
13	UNKNOWN	23.000	23000	-
14	UNKNOWN	24.000	24000	-
15	UNKNOWN	25.000	25000	-
16	UNKNOWN	26.000	26000	-
17	UNKNOWN	27.000	27000	-
18	UNKNOWN	28.000	28000	-
19	UNKNOWN	29.000	29000	-
20	UNKNOWN	30.000	30000	-
21	UNKNOWN	31.000	31000	-
22	UNKNOWN	32.000	32000	-
23	UNKNOWN	33.000	33000	-
24	UNKNOWN	34.000	34000	-
25	UNKNOWN	35.000	35000	-
26	UNKNOWN	36.000	36000	-
27	UNKNOWN	37.000	37000	-
28	UNKNOWN	38.000	38000	-
29	UNKNOWN	39.000	39000	-
30	UNKNOWN	40.000	40000	-
31	UNKNOWN	41.000	41000	-
32	UNKNOWN	42.000	42000	-
33	UNKNOWN	43.000	43000	-
34	UNKNOWN	44.000	44000	-
35	UNKNOWN	45.000	45000	-
36	UNKNOWN	46.000	46000	-
37	UNKNOWN	47.000	47000	-
38	UNKNOWN	48.000	48000	-
39	UNKNOWN	49.000	49000	-
40	UNKNOWN	50.000	50000	-
41	UNKNOWN	51.000	51000	-
42	UNKNOWN	52.000	52000	-
43	UNKNOWN	53.000	53000	-
44	UNKNOWN	54.000	54000	-
45	UNKNOWN	55.000	55000	-
46	UNKNOWN	56.000	56000	-
47	UNKNOWN	57.000	57000	-
48	UNKNOWN	58.000	58000	-
49	UNKNOWN	59.000	59000	-
50	UNKNOWN	60.000	60000	-
51	UNKNOWN	61.000	61000	-
52	UNKNOWN	62.000	62000	-
53	UNKNOWN	63.000	63000	-
54	UNKNOWN	64.000	64000	-
55	UNKNOWN	65.000	65000	-
56	UNKNOWN	66.000	66000	-
57	UNKNOWN	67.000	67000	-
58	UNKNOWN	68.000	68000	-
59	UNKNOWN	69.000	69000	-
60	UNKNOWN	70.000	70000	-
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62	UNKNOWN	72.000	72000	-
63	UNKNOWN	73.000	73000	-
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77	UNKNOWN	87.000	87000	-
78	UNKNOWN	88.000	88000	-
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82	UNKNOWN	92.000	92000	-
83	UNKNOWN	93.000	93000	-
84	UNKNOWN	94.000	94000	-
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88	UNKNOWN	98.000	98000	-
89	UNKNOWN	99.000	99000	-
90	UNKNOWN	100.000	100000	-
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94	UNKNOWN	104.000	104000	-
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98	UNKNOWN	108.000	108000	-
99	UNKNOWN	109.000	109000	-
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111	UNKNOWN	121.000	121000	-
112	UNKNOWN	122.000	122000	-
113	UNKNOWN	123.000	123000	-
114	UNKNOWN	124.000	124000	-
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116	UNKNOWN	126.000	126000	-
117	UNKNOWN	127.000	127000	-
118	UNKNOWN	128.000	128000	-
119	UNKNOWN	129.000	129000	-
120	UNKNOWN	130.000	130000	-
121	UNKNOWN	131.000	131000	-
122	UNKNOWN	132.000	132000	-
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138	UNKNOWN	148.000	148000	-
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198	UNKNOWN	208.000	208000	-
199	UNKNOWN	209.000	209000	-
200	UNKNOWN	210.000	210000	-
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202	UNKNOWN	212.000	212000	-
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242	UNKNOWN	252.000	252000	-
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249	UNKNOWN	259.000	259000	-
250	UNKNOWN	260.000	260000	-
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255	UNKNOWN	265.000	265000	-
256	UNKNOWN	266.000	266000	-
257	UNKNOWN	267.000	267000	-
258	UNKNOWN	268.000	268000	-
259	UNKNOWN	269.000	269000	-
260	UNKNOWN	270.000	270000	-
261	UNKNOWN	271.000	271000	-
262	UNKNOWN	272.000	272000	-
263	UNKNOWN	273.000	273000	-
264	UNKNOWN	274.000	274000	-
265	UNKNOWN			

ID
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERING Contract: ESE SHELTON
 Matrix: SOIL Lab Sample ID: PBLK22
 Sample wt: 0.06052 kg Lab file ID: EPA14141
 Level: LOW Date Received: 04/19/91
 % Moisture: not dec. dec. Date Extracted: 04/22/91
 Extraction: Sonic Date Analyzed: 05/02/91
 GPC Cleanup: (Y/N) N Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	80	U
11104-28-2	Aroclor-1221	80	U
11141-16-5	Aroclor-1232	80	U
53469-21-9	Aroclor-1242	80	U
12672-29-6	Aroclor-1248	160	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U
37324-23-5	Aroclor-1262	160	U
11100-14-4	Aroclor-1268	160	U

ersion: 860/V2.2
ode: VAX2

Printed: 2-May-1991 at 07:54:06
GC Project: DB-5

Page 1
User: WEBSTER

: P A 1 4

2 - M a y - 1 9 9 1

0 : 5 0 : 1 4

Header:

Acquisition method	PESTPCB	Processing method	PESTPCB
Units		System number	6
Channel	1	Manual injector	
Injection	1	Total injections	1
Run time	45.00 min	Sample rate	2.00 per sec
Injection volume	2 uL	Mode	Analysis
Acquisition version	LAC/E/V2.2	Processing version	V2.2

Description:

Node:

Acquired on node LACE01 system 6 for DB-5

Channel:

DB-5

Method:

DB-5 CAPILLARY COLUMN
INITIAL TEMP: 150 DEG
FINAL TEMP: 265 DEG
RAMP: 5 DEG/ MIN

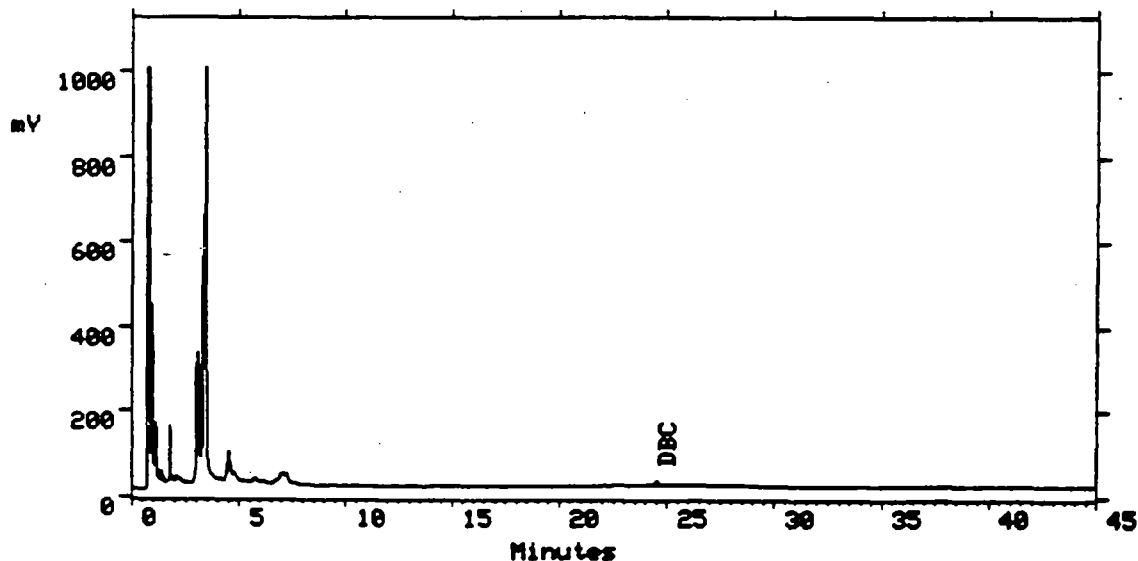
INITIAL TIME: 1 MIN
FINAL TIME: 21 MIN
RUN TIME: 45 MIN

Sample:

External vial 14

First Plot:

EPA14 Manual Injection 1 Ch 1

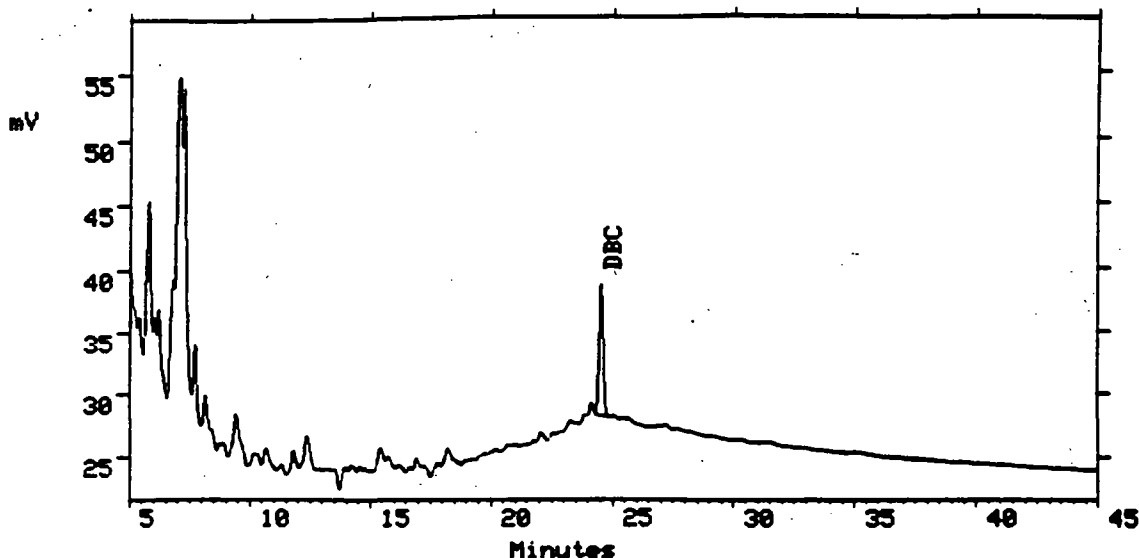


00201

Second Plot:

Seg 2 PBLK22

EPA14 Manual Injection 1 Ch 1



Conditions:

Sample amount Internal standard amt
Scale factor Mode Analysis
Keyboards of Remote Devices Unlocked

Manually integrated peaks have integration types with 1 or more '*'s.

Do Not Update Retention Time Retention Time Offset 0.00 sec
Relative Peak Window 1% Absolute Peak Window 6 sec

Errors Reported From Integration/Quantitation:
Integration method file was not found

GC Results:

Peak Name	Ret Time	Area	Amount
DBC	24.545	124995	0.106*

* This amount was computed using manually entered responses.

DBC RT Shift: $\frac{24.672 - 24.545}{24.672} \times 100 = 0.515\%$

DBC Recovery = $\frac{1.1}{1.0} \times 100 = 110\%$

ORGANIC ANALYSIS DATA SUMMARY PACKAGE

FACILITY NAME: RAYBESTOS

Volume 1 of 1

Environmental Science & Engineering, Inc.





Environmental
Science &
Engineering, Inc.

8901 N. Industrial Road
Peoria, Illinois 61615-1589

(309) 692-4422
Fax (309) 692-4364

An IEPA Contract Laboratory

FORM 0

CONTRACT LABORATORY SERVICES
ORGANIC ANALYSIS DATA PACKAGE

DATE MAY 31, 1991

COVER PAGE

Lab Name Environmental Science & Eng. Q.C. Report No. _____
Site Inventory No. _____ Facility Name Raybestos
Region _____ County _____

CONTENTS SUMMARY - Use additional page if necessary

CLIENT I.D. No.	LAB I.D. No.	PESTICIDES PCB	
		Extr Date	Anal Date
910319-19	2934-1	3/26/91	4/12/91
910321-058	2934-5	3/26/91	4/12/91
910326-084	2985-5	4/01/91	4/12/91
910326-092	2985-11	4/01/91	4/13/91
910326-099	2985-18	4/01/91	4/13/91
910327-101	2985-20	4/01/91	4/13/91
910327-122	2985-30	4/01/91	4/13/91
910325-064	2999-4	4/01/91	4/13/91
910325-071	2999-11	4/01/91	4/13/91
910325-075	2999-15	4/01/91	4/13/91
910328-131	2999-23	4/01/91	4/13/91
910415-145	3202-1	4/22/91	5/02/91
910415-153	3202-2	4/22/91	5/02/91
910416-160	3202-3	4/22/91	5/02/91
910416-168	3202-4	4/22/91	5/02/91
910416-181	3202-5	4/22/91	5/02/91

DWR/dwr.118

00001



Environmental
Science &
Engineering, Inc.

8901 N. Industrial Road
Peoria, Illinois 61615-1589

(309) 692-4422
Fax (309) 692-9364

An IEPA Contract Laboratory

FACILITY NAME: RAYBESTOS

ORGANIC CASE NARRATIVE

The data summary sheets and documentation for sixteen soil samples and QA/QC are enclosed. The samples were received between March 23 and April 18, 1991, to be analyzed for Aroclors 1262 & 1268.

Two samples were received March 23 and extracted March 26. Five samples were received March 28 and were extracted April 1. Four samples were received March 29 and were extracted April 1. Five samples were received April 19 and were extracted April 22. All sample extracts were cleaned with sulfuric acid to remove polar interferences. All extracts were also cleaned with mercury to remove sulfur.

The samples were analyzed in two sequences. The first sets of samples were analyzed beginning April 10, ending April 13. The samples received late April were analyzed beginning April 30, ending May 2. All samples were diluted initially based on the screened results from EnviroTest. Several extracts required further dilutions to bring the responses within the analytical range of the instrument. No significant problems were encountered during the analyses.

The report has been assembled, checked for completeness, paginated, and copied. If pages are missing, please indicate them by number. If you have any questions, please give us a call.

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.

Melvin D. Rozeboom, Ph.D.
Senior Project Manager

Dorothy W. Rothert
Chromatography Supervisor

MDR\mdr.127

00002

PCB SOIL SURROGATE RECOVERY *Sequence 1*

Lab Name: ENVIRONMENTAL SCIENCE AND ENGINEERING, INC.
 Contract: ESE SHELTON

	EPA SAMPLE NO.	‡ DBC	OTHER
01	PBLK26	440	*
02	PBLK01	350	*
03	PBLK03	214	*
04	910319-19DL	D	
05	910321-058DL	D	
06	910326-084DL	D	
07	910326-092DL	D	
08	910326-099DL	D	
09	910327-101DL	D	
10	910327-122DL	D	
11	910325-064DL	D	
12	910325-071DL	D	
13	910325-075DL	D	
14	910328-131DL	D	
15			
16			
17			
18			
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25			
26			
27			
28			
29			
30			

ADVISORY QC
 LIMITS
 (24-154)

S1 (DCAA) - DICHLOROPHENYLACETIC ACID

‡ COLUMN TO BE USED TO FLAG RECOVERY VALUES

* VALUES OUTSIDE OF QC LIMITS

D SURROGATES DILUTED OUT

M SURROGATE NOT RECOVERED DUE TO MATRIX INTEREFERENCE

00003

SOIL PCB SURROGATE RECOVERY *Sequence 2*

Lab Name: ENVIRONMENTAL SCIENCE AND ENGINEERING, INC.
Contract: ESE SHELTON

	EPA SAMPLE NO.	% DBC	OTHER
01	PBLK22	110	
02	910415-145DL	D	
03	910415-153DL	D	
04	910416-160DL	D	
05	910416-168DL	D	
06	910416-181DL	48	
07			
08			
09			
10			
11			
12			
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14			
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29			
30			

ADVISORY QC
LIMITS
(24-154)

- S1 (DBC) - DIBUTYLCHLORENDATE
- # COLUMN TO BE USED TO FLAG RECOVERY VALUES
- * VALUES OUTSIDE OF QC LIMITS
- D SURROGATES DILUTED OUT
- M SURROGATE NOT RECOVERED DUE TO MATRIX INTEREFERENCE

4C
PESTICIDE METHOD BLANK SUMMARY

Lab Name: ENVIRONMENTAL SCIENCE & ENG. ContractC: ESE-SHELTON
 Lab Sample ID: PBLK26 Lab File ID: SHELTON60601
 Matrix: (soil/water) SOIL Level: (low/med) LOW
 Date Extracted: 03/26/91 Extraction: (SepF/Cont/Sonc) SepF
 Date Analyzed (1): 04/11/91 Date Analyzed (2): _____
 Time Analyzed (1): 13:15 Time Analyzed (2): _____
 Instrument ID (1): HP5890 Instrument ID (2): _____
 GC COLUMN ID (1): MEGABORE 608 GC Column ID (2): _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED(1)	DATE ANALYZED(2)
01	910319-19DL	2934-IDL	04/12/91	
02	910321-058DL	2934-5DL	04/12/91	
03				
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COMMENTS: _____

EPA SAMPLE NO. PBLK26

ID
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: PBLK26Sample wt: 0.031 kgLab file ID: SHELTON60601Level: LOWDate Received: N/A% Moisture: not dec. dec. Date Extracted: 03/26/91Extraction: SoncDate Analyzed: 04/11/91GPC Cleanup: (Y/N) NDilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	80.	U
11104-28-2	Aroclor-1221	80.	U
11141-16-5	Aroclor-1232	80.	U
53469-21-9	Aroclor-1242	80.	U
12672-29-6	Aroclor-1248	80.	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U
37324-23-5	Aroclor-1262	160	U
11100-14-4	Aroclor-1268	160	U

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4C
PESTICIDE METHOD BLANK SUMMARY

Lab Name: ENVIRONMENTAL SCIENCE & ENG. ContractC: ESE-SHELTON
 Lab Sample ID: PBLK01 Lab File ID: SHELTON61611
 Matrix: (soil/water) SOIL Level: (low/med) LOW
 Date Extracted: 04/01/91 Extraction: (SepF/Cont/Sonc) SepF
 Date Analyzed (1): 04/11/91 Date Analyzed (2): _____
 Time Analyzed (1): 15:24 Time Analyzed (2): _____
 Instrument ID (1): HP5890 Instrument ID (2): _____
 GC COLUMN ID (1): MEGABORE 608 GC Column ID (2): _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED(1)	DATE ANALYZED(2)
01	910325-064DL	2999-4DL	04/13/91	
02	910325-071DL	2999-11DL	04/13/91	
03	910325-075DL	2999-15DL	04/13/91	
04	910326-084DL	2985-5DL	04/12/91	
05	910326-092DL	2985-11DL	04/13/91	
06	910326-099DL	2985-18DL	04/13/91	
07	910327-101DL	2985-20DL	04/13/91	
08	910327-122DL	2985-30DL	04/13/91	
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COMMENTS: _____

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EPA SAMPLE NO. PBLK01

ID
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: PBLK01Sample wt: 0.031 kgLab File ID: SHELTON61611Level: LOWDate Received: N/A% Moisture: not dec. dec. Date Extracted: 04/01/91Extraction: SonicDate Analyzed: 04/11/91GPC Cleanup: (Y/N) NDilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	80.	U
11104-28-2	Aroclor-1221	80.	U
11141-16-5	Aroclor-1232	80.	U
53469-21-9	Aroclor-1242	80.	U
12672-29-6	Aroclor-1248	80.	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U
37324-23-5	Aroclor-1262	160	U
11100-14-4	Aroclor-1268	160	U

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4C
PESTICIDE METHOD BLANK SUMMARY

Lab Name: ENVIRONMENTAL SCIENCE & ENG. ContractC: ESE-SHELTON
 Lab Sample ID: PBLK03 Lab File ID: SHELTON62621
 Matrix: (soil/water) SOIL Level: (low/med) LOW
 Date Extracted: 04/03/91 Extraction: (SepF/Cont/Sonc) SepF
 Date Analyzed (1): 04/11/91 Date Analyzed (2): _____
 Time Analyzed (1): 16:13 Time Analyzed (2): _____
 Instrument ID (1): HP5890 Instrument ID (2): _____
 GC COLUMN ID (1): MEGABORE 608 GC Column ID (2): _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED(1)	DATE ANALYZED(2)
01	910328-131DL	2999-23DL	04/13/91	
02				
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COMMENTS: _____

EPA SAMPLE NO. PBLK03

ID
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERINGContract: ESE SHELTONMatrix: SOILLab Sample ID: PBLK03Sample wt: 0.031 kgLab file ID: SHELTON62621Level: LOWDate Received: N/A% Moisture: not dec. dec. Date Extracted: 04/03/91Extraction: SoncDate Analyzed: 04/11/91GPC Cleanup: (Y/N) NDilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	80.	U
11104-28-2	Aroclor-1221	80.	U
11141-16-5	Aroclor-1232	80.	U
53469-21-9	Aroclor-1242	80.	U
12672-29-6	Aroclor-1248	80.	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U
37324-23-5	Aroclor-1262	160	U
11100-14-4	Aroclor-1268	160	U

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4C
PCB METHOD BLANK SUMMARY

LAB NAME: ENVIRONMENTAL SCIENCE & ENG.

CONTRACT: ESE SHELTON

Lab Sample ID: PBLK22

Lab File ID: EPA14141

Matrix: (soil/water) SOIL

Level: (low/med) LOW

Date Extracted: 04/22/91

Extraction: (SepF/Cont/Sonc) Sonc

Date Analyzed (1): 05/02/91

Date Analyzed (2): _____

Time Analyzed (1): 00:50

Time Analyzed (2): _____

Instrument ID (1): HP5890

Instrument ID (2): _____

GC COLUMN ID (1): DB-5

GC Column ID (2): _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED(1)	DATE ANALYZED(2)
01	910415-145DL	3202-1DL	05/02/91	
02	910415-156DL	3202-2DL	05/02/91	
03	910416-160DL	3202-3DL	05/02/91	
04	910416-168DL	3202-4DL	05/02/91	
05	910416-181DL	3202-5DL	05/02/91	
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COMMENTS: _____

EPA SAMPLE NO. PBLK22

1D
PCB ORGANICS ANALYSIS DATA SHEET

Lab name: ENVIRONMENTAL SCIENCE & ENGINEERING Contract: ESE SHELTON
 Matrix: SOIL Lab Sample ID: PBLK22
 Sample wt: 0.06052 kg Lab file ID: EPA14141
 Level: LOW Date Received: 04/19/91
 % Moisture: not dec. _____ dec. _____ Date Extracted: 04/22/91
 Extraction: Sonc Date Analyzed: 05/02/91
 GPC Cleanup: (Y/N) N Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/kg)	Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor Epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	80	U
11104-28-2	Aroclor-1221	80	U
11141-16-5	Aroclor-1232	80	U
53469-21-9	Aroclor-1242	80	U
12672-29-6	Aroclor-1248	160	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U
37324-23-5	Aroclor-1262	160	U
11100-14-4	Aroclor-1268	160	U

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LABORATORY ANALYSIS REPORT

Environmental Health Laboratory
a division of CIGNA Loss Control Services, Inc.

96 Moody Road
Hartford, CT 06114
(800) 243-6903
In CT (203) 822-3814

CIGNA

Laboratories in Macon, GA and Hartford, CT

To: **Arnold D. Kasppeler**
Environmental Safety & Engineering
One Overlook Drive
Amherst, NH 03031

Report No.: **91GL109**

P.O. No.: **2616NH**

Date Received: **7/19/91**

Date Reported: **7/23/91**

Analysis: **Organic Scan**
Analytical Method: **GC/MS Analysis; CS₂ Description**

<u>Sample Number</u>	<u>Air Volume (Liters)</u>	<u>mg/m³</u>	<u>Peak Identification</u>	<u>Quality Factor</u>
ESEA 13	10.1	<1.2	No significant peaks	—
ESEA 12	36.8	<0.34	No significant peaks	—
Blank	—	<0.013 mg	No significant peaks	—

*The detection limit for the method was determined using a toluene standard.

Quality factor is a measure of the degree of fit of an unknown compound's mass spectrum to that of a known compound. A quality factor of 100 would indicate a perfect degree of fit.

Analyst

Pat Dunn

Pat Dunn

Date:

7/23/91

< = Less than.